

000653

SOURCE 90 - 13 (SEPTEMBER 1990)

CURRAGH RESOURCES INC.

GRUM MINING RESERVES AS OF OCTOBER 1, 1990

G9009 CALCULATION

PC-MINE VERSION 1.20
 SERIAL NO : 20320
 23/11/1990

CURRAGH RESOURCES
 Grum G9009 - (Simpson/Adamson interp.) 6 metre bench

SOFTWARE BY GEMCOM SERVICES INC
 MODULE 4.11
 PAGE 2

90-13

MINING RESERVE EVALUATION

DESCRIPTION : Mining Reserves - Start-up of mining

TOTAL FOR ALL BENCHES

TOP ELEVATION : 1335.00 [m]
 BOTTOM ELEVATION : 975.00 [m]

TOP SURFACE GRID RECORD : 2 SURFACE TOPOGRAPHY (GEOMODEL - R and C)
 BOTTOM SURFACE GRID RECORD : 6 Ion Vintila STAGE 3 PIT (POLYSECT merge TOPOGRAPHY)

BENCHES USED :
 BENCH 1 TO 60
 BLOCKS USED :
 COLUMNS 1 TO 127 ROWS 1 TO 109
 CUMULATIVE RESULTS

*NOTE: NO ADJUSTMENTS

CUT-OFF GRADES		VOLUME	DENSITY	TONNAGE	AVERAGE GRADES				ECONOMIC FACTOR	
FROM	TO				[%Pb+Zn]	[%Pb]	[%Zn]	[Ag g/t]		[Au g/t]
[%Pb+Zn]	[%Pb+Zn]	[bcm x1000]	[tn/bcm]	[TONS x1000]	[%Pb+Zn]	[%Pb]	[%Zn]	[Ag g/t]	[Au g/t]	[\$Cdn x1000]
6.000	50.000	4386.13	3.483	15275.90	9.498	3.561	5.937	57.13	.912	.00
5.000	6.000	5588.07	3.379	18882.50	8.736	3.257	5.479	52.53	.847	.00
4.000	5.000	6756.82	3.310	22364.02	8.078	3.008	5.070	48.74	.801	.00
3.000	4.000	7422.45	3.287	24397.22	7.703	2.874	4.829	46.65	.785	.00
.010	3.000	7732.98	3.279	25357.06	7.496	2.797	4.698	45.46	.777	.00
.000	.010	75208.10	2.663	200294.00	.949	.354	.595	5.76	.098	.00
.000	99999.000	75208.10	2.663	200294.00	.949	.354	.595	5.76	.098	.00
TOTAL		75208.10	2.663	200294.00	.949	.354	.595	5.76	.098	.00

PC-MINE VERSION 1.20
 SERIAL NO : 20320
 23/11/1990

CURRAGH RESOURCES
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BENCHES USED :
 BENCH 1 TO 60
 BLOCKS USED :
 COLUMNS 1 TO 127 ROWS 1 TO 109
 INCREMENTAL RESULTS

CUT-OFF GRADES		VOLUME [bcm x1000]	DENSITY [tn/bcm]	TONNAGE [TONS x1000]	AVERAGE GRADES					ECONOMIC FACTOR [\$Cdn x1000]
FROM [%Pb+Zn]	TO [%Pb+Zn]				[%Pb+Zn]	[%Pb]	[%Zn]	[Ag g/t]	[Au g/t]	
6.000	50.000	4386.13	3.483	15275.90	9.498	3.561	5.937	57.13	.912	.00
5.000	6.000	1201.94	3.001	3606.60	5.509	1.968	3.541	33.09	.570	.00
4.000	5.000	1168.75	2.979	3481.52	4.511	1.661	2.850	28.15	.556	.00
3.000	4.000	665.63	3.055	2033.20	3.572	1.396	2.176	23.68	.603	.00
.010	3.000	310.52	3.091	959.84	2.229	.848	1.381	15.23	.567	.00
.000	.010	67475.13	2.593	174936.90	.000	.000	.000	.00	.000	.00
TOTAL		75208.10	2.663	200294.00	.949	.354	.595	5.76	.098	.00

SOURCE 89 - 6 (FEBRUARY 1989)

CURRAGH RESOURCES INC.

ALPHA 2 MINE PLAN

V & G Mining Block Reserves Based on "V8803 & 68705" M

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Total	
Vangorda Ore														
+Pb Gr		6.0	6.0	6.0	6.0	4.0	4.0	6.0	6.0	6.0	6.0	6.0		
+Pb Rec		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
+Zn Gr		1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		
+Zn Rec		0.5%	1.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%		
Vangorda Ore													6 935	
Tonnes		0	1 602	3 932	1 000	0	400	0	0	0	0	0	0	8.01
% Pb + Zn		0.0	7.8	7.9	8.4	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	3.50
% Pb		0.0	3.4	3.5	3.7	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	4.51
% Zn		0.0	4.5	4.5	4.7	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	49
Ag g/t		0	48	49	52	0	52	0	0	0	0	0	0	0.66
Au g/t		0.0	0.6	0.7	0.7	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	
Pb Conc		0	76 335	192 817	52 772	0	21 836	0	0	0	0	0	0	343 760
% Pb		0.0	59.1	59.4	59.2	0.0	57.2	0.0	0.0	0.0	0.0	0.0	0.0	59.17
Pb recovery		0.0%	84.0%	83.7%	84.3%	0.0%	84.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	83.9%
Ag g/t		0	679	666	660	0	638	0	0	0	0	0	0	666
Ag recovery		0.0%	66.8%	66.8%	66.8%	0.0%	66.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.8%
Au g/t		0.0	5.9	6.8	6.5	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	6.53
Au recovery		0.0%	49.3%	49.3%	49.3%	0.0%	49.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	49.3%
Zn Conc		0	101 949	252 015	68 314	0	27 313	0	0	0	0	0	0	449 591
% Zn		0.0	56.4	56.2	56.2	0.0	56.2	0.0	0.0	0.0	0.0	0.0	0.0	56.23
Zn recovery		0.0%	80.4%	80.8%	81.3%	0.0%	81.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	80.8%
Vangorda Stockpile														
High Grade		0	0	1 400	400	400	0	0	0	0	0	0	0	
%Pb+Zn		0.0	0.0	8.4	8.4	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Low Grade		0	85	0	0	0	0	0	0	0	0	0	0	
%Pb+Zn		0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

V & G Mining Block Reserves Based on "V8803 & G8705" M

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Total
By Ore													
Tonnes		0	0	500	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000	8 500
% Pb + Zn		0.0	0.0	15.4	14.1	13.3	13.3	12.8	12.8	12.8	12.6	12.6	13.20
% Pb		0.0	0.0	6.2	5.8	5.8	5.8	5.7	5.7	5.7	5.8	5.8	5.80
% Zn		0.0	0.0	9.2	8.3	7.5	7.5	7.1	7.1	7.1	6.8	6.8	7.40
Ag g/t		0.0	0.0	98.0	92.0	90.0	90.0	87.0	87.0	87.0	87.0	87.0	89
Au g/t		0.0	0.0	0.9	0.8	0.9	0.9	1.0	1.0	1.0	1.0	1.0	0.94
Pb Conc		0	0	40 725	75 783	76 705	76 705	75 519	75 519	75 519	76 573	76 573	649 621
% Pb		0.0	0.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.70
Pb recovery		0	0	0	0	0	0	0	0	0	0	0	80.0%
Ag g/t		0	0	620	625	604	604	593	593	593	585	585	599
Ag recovery													51.5%
Au g/t		0.0	0.0	2.6	2.6	3.0	3.0	3.2	3.2	3.2	3.3	3.3	3.07
Au recovery													25.0%
Zn Conc		0	0	75 617	136 503	122 754	122 754	116 371	116 371	116 371	111 625	111 625	1 029 992
% Zn		0.0	0.0	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.10
Zn recovery		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	82.0%
All Ore													
Tonnes		4 730	4 699	4 682	4 460	4 307	4 350	4 391	4 348	4 330	4 300	4 302	48 899
% Pb + Zn		8.4	8.5	8.8	9.2	9.5	8.9	9.2	9.5	9.5	9.2	7.8	8.93
% Pb		3.2	3.2	3.8	3.6	3.8	3.5	3.6	3.7	3.8	3.6	3.1	3.55
% Zn		5.1	5.3	5.0	5.5	5.7	5.4	5.5	5.8	5.7	5.6	4.6	5.39
Ag g/t		37	37	54	57	60	56	57	60	62	59	51	54
Au g/t		0.2	0.4	0.7	0.7	0.8	0.7	0.7	0.9	0.9	0.9	0.8	0.69
Pb Conc		200 835	201 002	244 778	219 058	219 388	206 620	213 639	217 222	223 820	208 011	178 042	2 332 415
% Pb		60.5	59.5	59.7	59.7	59.6	59.4	59.7	59.6	59.6	59.6	59.7	59.69
Pb recovery		79.2%	80.4%	82.7%	80.7%	80.3%	79.9%	79.8%	80.1%	80.6%	80.1%	78.8%	80.3%
Ag g/t		437.7	493.1	655.3	648.0	662.3	649.7	638.8	665.7	678.9	689.1	646.9	626
Ag recovery		49.9%	56.6%	63.0%	56.3%	55.8%	55.0%	54.5%	55.5%	56.3%	56.1%	52.5%	55.8%
Au g/t		1.4	3.1	5.9	4.7	4.7	4.7	4.5	5.2	5.5	5.5	5.5	4.64
Au recovery		25.0%	38.1%	45.4%	33.6%	30.0%	31.1%	29.5%	29.9%	30.6%	30.2%	28.8%	32.0%
Zn Conc		366 485	387 062	349 324	374 966	375 799	354 426	369 154	378 728	373 958	363 221	299 319	3 992 442
% Zn		52.1	52.3	54.5	53.7	54.4	54.3	53.8	54.3	54.3	54.5	54.1	53.84
Zn recovery		78.7%	80.6%	80.9%	81.7%	82.7%	82.2%	81.9%	82.1%	82.4%	82.8%	81.3%	81.6%
Total Conc		567 320	588 064	594 102	594 025	595 187	561 046	582 793	595 950	597 779	571 231	477 361	6 324 857
=====													
Stockpiles													
High + Medium		1 102	1 512	4 038	6 001	3 041	1 734	828	899	1 325	1 962	0	
Low Grade		1 974	2 955	3 122	3 262	3 273	3 647	3 960	3 845	3 173	3 966	2 626	
lead rec		79.2%	80.4%	82.7%	80.7%	80.3%	79.9%	79.8%	80.1%	80.6%	80.1%	78.8%	
zinc rec		78.7%	80.6%	80.9%	81.7%	82.7%	82.2%	81.9%	82.1%	82.4%	82.8%	81.3%	

FAROE OPEN PIT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
*Closing Stockpile - HIGH																	
Tonnes	0	250 000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
%Pb+Zn	0.00	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
%Pb	0.00	3.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
%Zn	0.00	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ag g/t	0.00	38.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Au g/t	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lead con	0	11 344	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
%Pb	0.00	60.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ag g/t	0.00	426.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Au g/t	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zn con	0	21 909	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
%Zn	0.00	49.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Mill Feed Total - HIGH

Tonnes	0	3 091 316	1 811 703	0	0	0	0	0	0	0	0	0	0	0	0	0	0
%Pb+Zn	0.00	8.90	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
%Pb	0.00	3.41	3.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
%Zn	0.00	5.50	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ag g/t	0.00	38.07	26.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Au g/t	0.00	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lead con	0	140 270	78 923	0	0	0	0	0	0	0	0	0	0	0	0	0	0
%Pb	0.00	60.04	58.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ag g/t	0.00	426.35	299.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Au g/t	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zn con	0	270 908	192 773	0	0	0	0	0	0	0	0	0	0	0	0	0	0
%Zn	0.00	49.58	49.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Mined - MEDIUM

Tonnes	0	1 887 459	1 058 439	0	0	0	0	0	0	0	0	0	0	0	0	0	0
%Pb+Zn	0.00	6.04	5.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
%Pb	0.00	2.23	2.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
%Zn	0.00	3.82	3.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ag g/t	0	28	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Au g/t	0.00	0.10	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lead con	0	52 891	26 875	0	0	0	0	0	0	0	0	0	0	0	0	0	0
%Pb	0	59	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ag g/t	0	426	368	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Au g/t	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zn con	0	109 063	63 065	0	0	0	0	0	0	0	0	0	0	0	0	0	0
%Zn	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Opening stockpile - MEDIUM

Tonnes		994 179	1 267 618	1 267 618	817 618	817 618	817 618	17 618	0	0	0	0	0	0	0	0	0
%Pb+Zn		6.04	6.02	6.02	6.02	6.02	6.02	6.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
%Pb		2.14	2.12	2.12	2.12	2.12	2.12	2.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
%Zn		3.90	3.90	3.90	3.90	3.90	3.90	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ag g/t		27.00	26.13	26.13	26.13	26.13	26.13	26.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Au g/t		0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lead con		26 763	33 706	33 706	21 740	21 740	21 740	468	0	0	0	0	0	0	0	0	0
%Pb		59	59	59	59	59	59	59	0	0	0	0	0	0	0	0	0
Ag g/t		416	406	406	406	406	406	406	0	0	0	0	0	0	0	0	0
Au g/t		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		59 078	75 376	75 376	49 507	49 507	49 507	1 017	0	0	0	0	0	0	0	0	0

GRUN OPEN.PIT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Mined - HIGH																	
Tonnes	0	34 628	209 792	1 125 938	5 013 457	346 596	2 042 684	2 459 351	2 768 594	2 926 174	3 937 528	0	0	0	0	0	0
%Pb+Zn	0.00	6.01	5.52	7.64	8.79	8.51	6.28	8.83	9.51	9.96	8.11	0.00	0.00	0.00	0.00	0.00	0.00
%Pb	0.00	2.27	1.92	2.81	3.30	3.59	2.21	3.36	3.50	3.81	2.93	0.00	0.00	0.00	0.00	0.00	0.00
%Zn	0.00	3.73	3.60	4.84	5.49	4.92	4.07	5.48	6.01	6.15	5.18	0.00	0.00	0.00	0.00	0.00	0.00
Ag g/t	0	37	33	46	54	55	37	56	59	65	51	0	0	0	0	0	0
Au g/t	0.00	0.48	0.67	0.70	0.80	0.75	0.50	0.84	0.98	1.08	0.84	0.00	0.00	0.00	0.00	0.00	0.00
Lead con	0	1 031	5 125	42 299	226 137	17 186	58 704	112 812	132 836	155 083	156 550	0	0	0	0	0	0
%Pb	0	58	58	58	58	58	58	58	58	58	58	0	0	0	0	0	0
Ag g/t	0	651	643	670	692	651	646	700	714	732	737	0	0	0	0	0	0
Au g/t	0	5	8	6	6	5	5	6	7	7	7	0	0	0	0	0	0
Zn con	0	1 886	11 026	82 025	416 592	25 700	123 213	203 673	252 228	274 838	308 389	0	0	0	0	0	0
%Zn	0	55	55	55	55	55	55	55	55	55	55	0	0	0	0	0	0
Opening stockpile - HIGH																	
Tonnes	0	0	34 628	244 420	1 370 358	4 783 815	1 823 815	916 499	809 999	898 593	1 324 767	1 962 295	0	0	0	0	0
%Pb+Zn	0.00	0.00	6.01	5.59	7.27	8.36	8.36	6.56	6.56	6.85	7.85	7.94	0.00	0.00	0.00	0.00	0.00
%Pb	0.00	0.00	2.27	1.97	2.66	3.12	3.12	2.33	2.33	2.45	2.89	2.90	0.00	0.00	0.00	0.00	0.00
%Zn	0.00	0.00	3.73	3.62	4.62	5.24	5.24	4.23	4.23	4.40	4.97	5.04	0.00	0.00	0.00	0.00	0.00
Ag g/t	0	0.00	37.00	33.57	43.78	51.07	51.07	38.90	38.90	40.88	48.64	49.41	0.00	0.00	0.00	0.00	0.00
Au g/t	0.00	0.00	0.48	0.64	0.69	0.77	0.77	0.54	0.54	0.58	0.74	0.77	0.00	0.00	0.00	0.00	0.00
Lead con	0	0	1 031	6 156	48 455	202 422	77 173	28 020	24 764	29 015	51 601	76 948	0	0	0	0	0
%Pb	0	0	58	58	58	58	58	58	58	58	58	58	0	0	0	0	0
Ag g/t	0	0	651	644	667	686	686	653	653	662	693	707	0	0	0	0	0
Au g/t	0	0	5	7	6	6	6	5	5	6	6	6	0	0	0	0	0
Zn con	0	0	1 886	12 912	94 937	378 577	144 331	57 612	50 918	58 989	99 017	148 948	0	0	0	0	0
%Zn	0	0	55	55	55	55	55	55	55	55	55	55	0	0	0	0	0
Pit to Mill - HIGH																	
Tonnes					1 600 000	346 596	1 250 000	2 459 351	2 680 000	2 500 000	3 300 000						
%Pb+Zn	0.00	6.01	5.52	7.64	8.79	8.51	6.28	8.83	9.51	9.96	8.11	0.00	0.00	0.00	0.00	0.00	0.00
%Pb	0.00	2.27	1.92	2.81	3.30	3.59	2.21	3.36	3.50	3.81	2.93	0.00	0.00	0.00	0.00	0.00	0.00
%Zn	0.00	3.73	3.60	4.84	5.49	4.92	4.07	5.48	6.01	6.15	5.18	0.00	0.00	0.00	0.00	0.00	0.00
Ag g/t	0.00	37.00	33.00	46.00	54.00	55.00	37.00	56.00	59.00	65.00	51.00	0.00	0.00	0.00	0.00	0.00	0.00
Au g/t	0.00	0.48	0.67	0.70	0.80	0.75	0.50	0.84	0.98	1.08	0.84	0.00	0.00	0.00	0.00	0.00	0.00
Lead con	0	0	0	0	72 170	17 186	35 923	112 812	128 585	132 496	131 203	0	0	0	0	0	0
%Pb	0	58	58	58	58	58	58	58	58	58	58	0	0	0	0	0	0
Ag g/t	0	651	643	670	692	651	646	700	714	732	737	0	0	0	0	0	0
Au g/t	0	5	8	6	6	5	5	6	7	7	7	0	0	0	0	0	0
Zn con	0	0	0	0	132 952	25 700	75 399	203 673	244 157	234 810	258 458	0	0	0	0	0	0
%Zn	0	55	55	55	55	55	55	55	55	55	55	0	0	0	0	0	0
Stockpile to Mill - HIGH																	
Tonnes						2 960 000	1 700 000	106 500				1 962 295					
%Pb+Zn	0.00	0.00	6.01	5.59	7.27	8.36	8.36	6.56	6.56	6.85	7.85	7.94	0.00	0.00	0.00	0.00	0.00
%Pb	0.00	0.00	2.27	1.97	2.66	3.12	3.12	2.33	2.33	2.45	2.89	2.90	0.00	0.00	0.00	0.00	0.00
%Zn	0.00	0.00	3.73	3.62	4.62	5.24	5.24	4.23	4.23	4.40	4.97	5.04	0.00	0.00	0.00	0.00	0.00
Ag g/t	0.00	0.00	37.00	33.57	43.78	51.07	51.07	38.90	38.90	40.88	48.64	49.41	0.00	0.00	0.00	0.00	0.00
Au g/t	0.00	0.00	0.48	0.64	0.69	0.77	0.77	0.54	0.54	0.58	0.74	0.77	0.00	0.00	0.00	0.00	0.00
Lead con	0	0	0	0	0	125 249	71 934	3 256	0	0	0	76 948	0	0	0	0	0
%Pb	0	0	58	58	58	58	58	58	58	58	58	58	0	0	0	0	0
Ag g/t	0	0	651	644	667	686	686	653	653	662	693	707	0	0	0	0	0
Au g/t	0	0	5	7	6	6	6	5	5	6	6	6	0	0	0	0	0
Zn con	0	0	0	0	0	234 246	134 533	6 695	0	0	0	148 948	0	0	0	0	0
%Zn	0	0	55	55	55	55	55	55	55	55	55	55	0	0	0	0	0

Closing Stockpile - HIGH

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Tonnes	0	34 628	244 420	1 370 358	4 783 815	1 823 815	916 499	809 999	898 593	1 324 767	1 962 295	0	0	0	0	0	0
%Pb+Zn	0.00	6.01	5.59	7.27	8.36	8.36	6.56	6.56	6.85	7.85	7.94	0.00	0.00	0.00	0.00	0.00	0.00
%Pb	0.00	2.27	1.97	2.66	3.12	3.12	2.33	2.33	2.45	2.89	2.90	0.00	0.00	0.00	0.00	0.00	0.00
%Zn	0.00	3.73	3.62	4.62	5.24	5.24	4.23	4.23	4.40	4.97	5.04	0.00	0.00	0.00	0.00	0.00	0.00
Ag g/t	0.00	37.00	33.57	43.78	51.07	51.07	38.90	38.90	40.88	48.64	49.41	0.00	0.00	0.00	0.00	0.00	0.00
Au g/t	0.00	0.48	0.64	0.69	0.77	0.77	0.54	0.54	0.58	0.74	0.77	0.00	0.00	0.00	0.00	0.00	0.00
Lead con	0	1 031	6 156	48 455	202 422	77 173	28 020	24 764	29 015	51 601	76 948	0	0	0	0	0	0
%Pb	0.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	0.00	0.00	0.00	0.00	0.00	0.00
Ag g/t	0.00	651.00	644.34	666.74	685.95	685.95	653.47	653.47	662.34	692.83	707.38	0.00	0.00	0.00	0.00	0.00	0.00
Au g/t	0.00	4.89	7.49	6.01	5.75	5.75	5.37	5.37	5.54	6.07	6.30	0.00	0.00	0.00	0.00	0.00	0.00
Zn con	0	1 886	12 912	94 937	378 577	144 331	57 612	50 918	58 989	99 017	148 948	0	0	0	0	0	0
%Zn	0.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	0.00	0.00	0.00	0.00	0.00	0.00

Mill Feed Total - HIGH

Tonnes	0	0	0	0	1 600 000	3 306 596	2 950 000	2 565 851	2 680 000	2 500 000	3 300 000	1 962 295	0	0	0	0	0
%Pb+Zn	0.00	0.00	0.00	0.00	8.79	8.37	7.48	8.74	9.51	9.96	8.11	7.94	0.00	0.00	0.00	0.00	0.00
%Pb	0.00	0.00	0.00	0.00	3.30	3.17	2.73	3.32	3.50	3.81	2.93	2.90	0.00	0.00	0.00	0.00	0.00
%Zn	0.00	0.00	0.00	0.00	5.49	5.21	4.75	5.43	6.01	6.15	5.18	5.04	0.00	0.00	0.00	0.00	0.00
Ag g/t	0.00	0.00	0.00	0.00	54.00	51.48	45.11	55.29	59.00	65.00	51.00	49.41	0.00	0.00	0.00	0.00	0.00
Au g/t	0.00	0.00	0.00	0.00	0.80	0.77	0.65	0.83	0.98	1.08	0.84	0.77	0.00	0.00	0.00	0.00	0.00
Lead con	0	0	0	0	72 170	142 435	107 857	116 068	128 585	132 496	131 203	76 948	0	0	0	0	0
%Pb	0.00	0.00	0.00	0.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	0.00	0.00	0.00	0.00	0.00
Ag g/t	0.00	0.00	0.00	0.00	692.00	681.74	672.65	698.69	714.00	732.00	737.00	707.38	0.00	0.00	0.00	0.00	0.00
Au g/t	0.00	0.00	0.00	0.00	5.67	5.64	5.59	5.86	6.55	6.76	6.76	6.30	0.00	0.00	0.00	0.00	0.00
Zn con	0	0	0	0	132 952	259 946	209 932	210 368	244 157	234 810	258 458	148 948	0	0	0	0	0
%Zn	0.00	0.00	0.00	0.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	0.00	0.00	0.00	0.00	0.00

Req'd Feed

Req'd Conc

Mined - LOW

Tonnes	0	0	56 287	301 404	549 468	10 906	374 439	338 378	534 872	157 827	793 318	0	0	0	0	0	0
%Pb+Zn	0.00	0.00	3.77	3.93	3.86	3.95	4.02	3.90	3.91	3.88	3.84	0.00	0.00	0.00	0.00	0.00	0.00
%Pb	0.00	0.00	1.27	1.26	1.27	1.51	1.38	1.57	1.55	1.54	1.52	0.00	0.00	0.00	0.00	0.00	0.00
%Zn	0.00	0.00	2.50	2.68	2.58	2.43	2.64	2.33	2.36	2.34	2.31	0.00	0.00	0.00	0.00	0.00	0.00
Ag g/t	0	0	24	25	24	31	25	27	28	27	26	0	0	0	0	0	0
Au g/t	0.00	0.00	0.78	0.55	0.49	1.12	0.46	0.66	0.73	0.73	0.64	0.00	0.00	0.00	0.00	0.00	0.00
Lead con	0	0	847	4 477	8 287	201	6 214	6 540	10 184	2 968	14 761	0	0	0	0	0	0
%Pb	0	0	58	58	58	58	58	58	58	58	58	0	0	0	0	0	0
Ag g/t	0	0	600	634	614	719	601	592	620	605	586	0	0	0	0	0	0
Au g/t	0	0	14	10	9	17	8	10	11	11	10	0	0	0	0	0	0
Zn con	0	0	1 933	11 212	19 629	363	13 706	10 720	17 189	5 028	24 909	0	0	0	0	0	0
%Zn	0	0	55	55	55	55	55	55	55	55	55	0	0	0	0	0	0

Opening stockpile - LOW

Tonnes	0	0	0	56 287	307 691	447 159	458 065	832 504	1 170 882	1 455 754	1 113 581	1 906 899	566 899	566 899	566 899	566 899	566 899
%Pb+Zn	0.00	0.00	0.00	3.77	3.90	3.89	3.89	3.95	3.93	3.93	3.92	3.89	3.89	3.89	3.89	3.89	3.89
%Pb	0.00	0.00	0.00	1.27	1.26	1.26	1.27	1.32	1.39	1.45	1.46	1.49	1.49	1.49	1.49	1.49	1.49
%Zn	0.00	0.00	0.00	2.50	2.65	2.63	2.62	2.63	2.54	2.48	2.46	2.40	2.40	2.40	2.40	2.40	2.40
Ag g/t	0	0.00	0.00	24.00	24.82	24.56	24.72	24.84	25.47	26.40	26.48	26.28	26.28	26.28	26.28	26.28	26.28
Au g/t	0.00	0.00	0.00	0.78	0.59	0.56	0.57	0.52	0.56	0.62	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Lead con	0	0	0	847	4 581	6 685	6 886	13 100	19 640	25 630	19 795	34 556	10 273	10 273	10 273	10 273	10 273
%Pb	0	0	0	58	58	58	58	58	58	58	58	58	58	58	58	58	58
Ag g/t	0	0	0	600	628	623	626	614	607	612	611	600	600	600	600	600	600
Au g/t	0	0	0	14	11	10	10	9	9	10	10	10	10	10	10	10	10

GRUM OPEN PIT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Pit to Mill - LOW																	
Tonnes				50 000	410 000												
%Pb+Zn	0.00	0.00	3.77	3.93	3.86	3.95	4.02	3.90	3.91	3.88	3.84	0.00	0.00	0.00	0.00	0.00	0.00
%Pb	0.00	0.00	1.27	1.26	1.27	1.51	1.38	1.57	1.55	1.54	1.52	0.00	0.00	0.00	0.00	0.00	0.00
%Zn	0.00	0.00	2.50	2.68	2.58	2.43	2.64	2.33	2.36	2.34	2.31	0.00	0.00	0.00	0.00	0.00	0.00
Ag g/t	0.00	0.00	24.00	25.00	24.00	31.00	25.00	27.00	28.00	27.00	26.00	0.00	0.00	0.00	0.00	0.00	0.00
Au g/t	0.00	0.00	0.78	0.55	0.49	1.12	0.46	0.66	0.73	0.73	0.64	0.00	0.00	0.00	0.00	0.00	0.00
Lead con	0	0	0	743	6 184	0	0	0	0	0	0	0	0	0	0	0	0
%Pb	0	0	58	58	58	58	58	58	58	58	58	0	0	0	0	0	0
Ag g/t	0	0	600	634	614	719	601	592	620	605	586	0	0	0	0	0	0
Au g/t	0	0	14	10	9	17	8	10	11	11	10	0	0	0	0	0	0
Zn con	0	0	0	1 860	14 647	0	0	0	0	0	0	0	0	0	0	0	0
%Zn	0	0	55	55	55	55	55	55	55	55	55	0	0	0	0	0	0
Stockpile to Mill - LOW																	
Tonnes								250 000	500 000		1 340 000						
%Pb+Zn	0.00	0.00	0.00	3.77	3.90	3.89	3.89	3.95	3.93	3.93	3.92	3.89	3.89	3.89	3.89	3.89	3.89
%Pb	0.00	0.00	0.00	1.27	1.26	1.26	1.27	1.32	1.39	1.45	1.46	1.49	1.49	1.49	1.49	1.49	1.49
%Zn	0.00	0.00	0.00	2.50	2.65	2.63	2.62	2.63	2.54	2.48	2.46	2.40	2.40	2.40	2.40	2.40	2.40
Ag g/t	0.00	0.00	0.00	24.00	24.82	24.56	24.72	24.84	25.47	26.40	26.48	26.28	26.28	26.28	26.28	26.28	26.28
Au g/t	0.00	0.00	0.00	0.78	0.59	0.56	0.57	0.52	0.56	0.62	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Lead con	0	0	0	0	0	0	0	0	4 193	8 803	0	24 283	0	0	0	0	0
%Pb	0	0	0	58	58	58	58	58	58	58	58	58	58	58	58	58	58
Ag g/t	0	0	0	600	628	623	626	614	607	612	611	600	600	600	600	600	600
Au g/t	0	0	0	14	11	10	10	9	9	10	10	10	10	10	10	10	10
Zn con	0	0	0	0	0	0	0	0	8 766	16 994	0	43 865	0	0	0	0	0
%Zn	0	0	0	55	55	55	55	55	55	55	55	55	55	55	55	55	55
Closing Stockpile - LOW																	
Tonnes	0	0	56 287	307 691	447 159	458 065	832 504	1 170 882	1 455 754	1 113 581	1 906 899	566 899	566 899	566 899	566 899	566 899	566 899
%Pb+Zn	0.00	0.00	3.77	3.90	3.89	3.89	3.95	3.93	3.93	3.92	3.89	3.89	3.89	3.89	3.89	3.89	3.89
%Pb	0.00	0.00	1.27	1.26	1.26	1.27	1.32	1.39	1.45	1.46	1.49	1.49	1.49	1.49	1.49	1.49	1.49
%Zn	0.00	0.00	2.50	2.65	2.63	2.62	2.63	2.54	2.48	2.46	2.40	2.40	2.40	2.40	2.40	2.40	2.40
Ag g/t	0.00	0.00	24.00	24.82	24.56	24.72	24.84	25.47	26.40	26.48	26.28	26.28	26.28	26.28	26.28	26.28	26.28
Au g/t	0.00	0.00	0.78	0.59	0.56	0.57	0.52	0.56	0.62	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Lead con	0	0	847	4 581	6 685	6 886	13 100	19 640	25 630	19 795	34 556	10 273	10 273	10 273	10 273	10 273	10 273
%Pb	0.00	0.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00
Ag g/t	0.00	0.00	600.00	627.71	623.40	626.19	614.24	606.83	612.07	611.01	600.32	600.32	600.32	600.32	600.32	600.32	600.32
Au g/t	0.00	0.00	13.69	10.51	9.92	10.12	8.89	9.14	9.74	9.92	9.75	9.75	9.75	9.75	9.75	9.75	9.75
Zn con	0	0	1 933	11 285	16 267	16 630	30 336	41 056	49 479	37 513	62 422	18 557	18 557	18 557	18 557	18 557	18 557
%Zn	0.00	0.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00
Mill Feed Total - LOW																	
Tonnes	0	0	0	50 000	410 000	0	0	0	250 000	500 000	0	1 340 000	0	0	0	0	0
%Pb+Zn	0.00	0.00	0.00	3.93	3.86	0.00	0.00	0.00	3.93	3.93	0.00	3.89	0.00	0.00	0.00	0.00	0.00
%Pb	0.00	0.00	0.00	1.26	1.27	0.00	0.00	0.00	1.39	1.45	0.00	1.49	0.00	0.00	0.00	0.00	0.00
%Zn	0.00	0.00	0.00	2.68	2.58	0.00	0.00	0.00	2.54	2.48	0.00	2.40	0.00	0.00	0.00	0.00	0.00
Ag g/t	0.00	0.00	0.00	25.00	24.00	0.00	0.00	0.00	25.47	26.40	0.00	26.28	0.00	0.00	0.00	0.00	0.00
Au g/t	0.00	0.00	0.00	0.55	0.49	0.00	0.00	0.00	0.56	0.62	0.00	0.64	0.00	0.00	0.00	0.00	0.00
Lead con	0	0	0	743	6 184	0	0	0	4 193	8 803	0	24 283	0	0	0	0	0
%Pb	0.00	0.00	0.00	58.00	58.00	0.00	0.00	0.00	58.00	58.00	0.00	58.00	0.00	0.00	0.00	0.00	0.00
Ag g/t	0.00	0.00	0.00	634.00	614.00	0.00	0.00	0.00	606.83	612.07	0.00	600.32	0.00	0.00	0.00	0.00	0.00
Au g/t	0.00	0.00	0.00	9.79	8.62	0.00	0.00	0.00	9.14	9.74	0.00	9.75	0.00	0.00	0.00	0.00	0.00
Zn con	0	0	0	1 860	14 647	0	0	0	8 766	16 994	0	43 865	0	0	0	0	0
%Zn	0.00	0.00	0.00	55.00	55.00	0.00	0.00	0.00	55.00	55.00	0.00	55.00	0.00	0.00	0.00	0.00	0.00

GRUM OPEN PIT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Mill Feed Total - ALL																	
Tonnes	0	0	0	50 000	2 010 000	3 306 596	2 950 000	2 565 851	2 930 000	3 000 000	3 300 000	3 302 295	0	0	0	0	0
%Pb+Zn	0.00	0.00	0.00	3.93	7.78	8.37	7.48	8.74	9.03	8.95	8.11	6.29	0.00	0.00	0.00	0.00	0.00
%Pb	0.00	0.00	0.00	1.26	2.89	3.17	2.73	3.32	3.32	3.42	2.93	2.33	0.00	0.00	0.00	0.00	0.00
%Zn	0.00	0.00	0.00	2.68	4.90	5.21	4.75	5.43	5.71	5.54	5.18	3.96	0.00	0.00	0.00	0.00	0.00
Ag g/t	0.00	0.00	0.00	25.00	47.88	51.48	45.11	55.29	56.14	58.57	51.00	40.02	0.00	0.00	0.00	0.00	0.00
Au g/t	0.00	0.00	0.00	0.55	0.74	0.77	0.65	0.83	0.94	1.00	0.84	0.72	0.00	0.00	0.00	0.00	0.00
Lead con	0	0	0	743	78 353	142 435	107 857	116 068	132 779	141 300	131 203	101 231	0	0	0	0	0
%Pb	0.00	0.00	0.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	0.00	0.00	0.00	0.00	0.00
Lead rec	0.0%	0.0%	0.0%	68.4%	78.3%	78.9%	77.6%	79.1%	79.2%	80.0%	78.7%	76.4%	0.0%	0.0%	0.0%	0.0%	0.0%
Ag g/t	0.00	0.00	0.00	634.00	685.84	681.74	672.65	698.69	710.62	724.53	737.00	681.70	0.00	0.00	0.00	0.00	0.00
Silver rec	0.0%	0.0%	0.0%	37.7%	55.8%	57.0%	54.5%	57.2%	57.4%	58.3%	57.5%	52.2%	0.0%	0.0%	0.0%	0.0%	0.0%
Au g/t	0.00	0.00	0.00	9.79	5.90	5.64	5.59	5.86	6.63	6.95	6.76	7.13	0.00	0.00	0.00	0.00	0.00
Zn con	0	0	0	1 860	147 598	259 946	209 932	210 368	252 923	251 804	258 458	192 813	0	0	0	0	0
%Zn	0.00	0.00	0.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	0.00	0.00	0.00	0.00	0.00

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Total 89 - 2000
GRUM PIT OPERATIONS													
Waste Mined (incl O/B)	12 363	12 336	15 572	23 438	27 551	26 583	14 777	14 123	13 774	12 912			173 429
O/B Mined	8 387	8 878	5 658	950	1 493	4	200	32	11				25 612
Ore Mined	57	244	1 427	5 563	358	2 417	2 798	3 303	3 084	4 731			23 982
Total Moved	12 420	12 580	17 000	29 000	27 908	29 000	17 575	17 426	16 858	17 643			197 411
Mill Feed			50	2 010	3 307	2 950	2 566	2 930	3 000	3 300	3 302		23 415
Operating Hours													
Shovels	9 155	11 101	13 058	21 560	20 796	21 482	13 035	12 911	12 488	13 069			148 655
Haul Truck Wabco													
Haul Truck Euclid			7 299	7 796	44 676	44 676	33 507	33 507	33 507	33 507			271 982
Haul Truck Unit Rig	19 518	22 338	22 338	22 338	3 339	11 169							101 040
Haul Truck Other 170		7 746	22 375	30 689	21 429	41 414	31 669	34 150	37 263	52 456	17 543		296 733
Dozer	9 641	10 512	21 024	31 536	31 536	31 536	21 024	21 024	21 024	15 768			214 625
Loader - No Prod	2 247	2 000	2 000	2 000	2 000	2 000	1 500	1 000	1 000	1 000			16 747
Loader - Mine Prod													
Loader - Ore			63	2 513	4 133	3 688	3 207	3 663	3 750	4 125	4 128		29 268
Loader Total	2 247	2 000	2 063	4 513	6 133	5 688	4 707	4 663	4 750	5 125	4 128		46 015
Grader	5 256	3 942	5 256	10 512	10 512	10 512	10 512	10 512	10 512	7 884			85 410
RTD	3 154	5 256	5 256	10 512	10 512	10 512	10 512	10 512	5 256	5 256			76 738
Drill	2 565	987	3 192	8 403	6 693	7 853	5 043	5 174	4 983	5 593			50 488
Operators Summary													
Shovel	13	16	16	16	16	16	10	10	10	10			
Drill	8	8	8	8	8	8	6	4	4	4			
Equipment	40	41	41	40	40	40	33	33	30	25		7	
Truck	53	63	75	69	46	58	46	46	48	56		16	

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Total 89 - 2000
EQUIPMENT SUMMARIES													
Shovel Hours Scheduled	18 763	23 269	21 912	21 560	20 796	21 482	13 035	12 911	12 488	13 069			
Capital Fleet	4	4	4	4	4	4	4	4	4	4	4	4	4
Effective Utilization	54%	66%	63%	62%	59%	61%	37%	37%	36%	37%			
Productivity (t/h)	1 324	1 210	1 316	1 345	1 342	1 350	1 348	1 350	1 350	1 350			ERR
Excess Capacity (000 t)	6 837	753	2 586	3 061	4 092	3 166	14 569	14 737	15 308	14 524		32 167	
Loader Hours Scheduled	11 905	9 562	9 853	8 076	7 883	7 938	7 489	6 935	6 913	6 875		5 878	
Capital Fleet	3	3	3	2	2	2	2	2	2	2		2	2
Effective Utilization	45%	36%	37%	46%	45%	45%	43%	40%	39%	39%		34%	
Excess Capacity (000 t)	3 879	5 753	5 521	2 475	2 629	2 585	2 944	3 388	3 405	3 435		4 233	
Truck Hours Scheduled	84 750	108 141	131 316	119 316	80 555	100 837	78 865	80 073	82 912	97 074		28 654	
Capital Fleet	23	30	30	28	26	22	20	20	20	22		14	14
Effective Utilization	42%	41%	50%	49%	35%	52%	45%	46%	47%	50%		23%	
Productivity	381	304	255	280	400	331	279	272	256	226		150	
Drill Hours Scheduled	7 701	4 975	7 185	8 403	6 693	7 853	5 043	5 174	4 983	5 593			
Capital Fleet	2	2	2	2	2	2	2	2	2	2		2	2
Effective Utilization	44%	28%	41%	48%	38%	45%	29%	30%	28%	32%			
Productivity	2 317	2 886	3 071	3 338	3 947	3 692	3 445	3 362	3 381	3 154			ERR
Dozer Hours Scheduled	14 269	22 024	32 036	32 036	32 036	32 036	21 524	21 524	21 524	16 268			500
Capital Fleet	5	6	6	6	6	6	6	4	4	4		4	2
Effective Utilization	33%	46%	61%	61%	61%	61%	41%	61%	61%	46%			32%
RTD Hours Scheduled	8 410	10 512	10 512	10 512	10 512	10 512	10 512	10 512	5 256	5 256			
Capital Fleet	2	2	2	2	2	2	2	2	1	1		1	1
Effective Utilization	48%	60%	60%	60%	60%	60%	60%	60%	60%	60%			
Grader Hours Scheduled	13 970	15 768	15 768	15 768	15 768	15 768	15 768	15 768	15 768	13 140			5 256
Capital Fleet	3	3	3	3	3	3	3	3	3	3		3	2
Effective Utilization	53%	60%	60%	60%	60%	60%	60%	60%	60%	50%			30%

TRUCK FLEETS		ORE/STOCKPILE		SUPPORT EQUIPMENT	
Wabco Fleet		FRONT END LOADER		TRACKED DOZER	
Availability	70%	Availability	75%	Availability	75%
Utilization	70%	Utilization	85%	Utilization	80%
Payload	105	Productivity	800		
Rel Productivity	70%			GRADER	
		Wabcos - Faro Pit S/P		Availability	75%
Euclid Fleet		Availability	70%	Utilization	80%
Availability	75%	Utilization	70%		
Utilization	85%	Productivity	320	RUBBER TIRED DOZER	
Payload	150			Availability	75%
Rel Productivity	100%	Wabcos - Faro U/G Ore		Utilization	80%
		Availability	70%		
Unit Rig Fleet		Utilization	70%	DRILL	
Availability	75%	Productivity	200	Availability	85%
Utilization	85%			Utilization	85%
Payload	150	Cat 195 - Vangorda Ore		Prod'ty Waste	4 000
Rel Productivity	95%	Availability	75%	Prod'ty Ore	2 000
		Utilization	85%		
Cat 195 Fleet		Productivity	110	SHOVEL	
Availability	75%			Availability	80%
Utilization	85%	Cat 195 - Grum Ore		Utilization	85%
Payload	175	Availability	75%	Productivity	1350
Rel Productivity	100%	Utilization	85%		
		Productivity	175		
Notes: "Rel Productivity"					
refers to productivity		Cat 195 - Dy Ore			
relative to the Euclid		Availability	75%		
fleet.		Utilization	85%		
		Productivity	90		

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
FLEET SIZE												
Wabco		8	8	6	4	4	2	2	2	2	4	2
Euclid		10	10	8	8	8	6	6	6	6	6	
Unit Rig		4	4	4	4	2	2					
Other 170		1	8	12	12	12	12	12	12	12	12	12
FLEET HOURS AVAILABLE												
Wabco		34 339	34 339	25 754	17 170	17 170	8 585	8 585	8 585	8 585	17 170	8 585
Euclid		55 845	55 845	44 676	44 676	44 676	33 507	33 507	33 507	33 507	33 507	
Unit Rig		22 338	22 338	22 338	22 338	11 169	11 169					
Other 170		5 585	44 676	67 014	67 014	67 014	67 014	67 014	67 014	67 014	67 014	67 014
FARO REQUIREMENTS												
MINING REQUIREMENTS												
Average Productivity		283	230	230	230	230	230	230	230	230	230	230
Euclid Hrs Req'd		47 214	29 748									
Euclid Hrs Taken		47 214	29 748									
Euclid Hrs remaining												
Unit Rig Hrs Req'd												
Unit Rig Hrs Taken												
Euclid Hrs remaining												
Wabco Hrs req'd												
Wabco Hrs Taken												
ORE/STOCKPILE												
Total Rehandle		3 189	1 948		450			825	418	330		
Wabco Hours		9 967	6 086		1 406			2 578	1 305	1 031		
FARO UNDERGROUND												
Tonnes		478	500	200								1 178
Wabco Hours		1 494	1 563	625								
VANGORDA MINING												
Euclid Hrs Req'd		3 713	18 798	36 880								
Euclid Hrs Taken		3 713	18 798	36 880								
Euclid Hrs remaining												
Unit Rig Hrs Req'd												
Unit Rig Hrs Taken												
Euclid Hrs remaining												
Other 170 Hrs Req'd												
Other 170 Hrs Taken												
Euclid Hrs remaining												
Wabco Hrs req'd												
Wabco Hrs Taken												
VANGORDA ORE												
Tonnes			1 602	3 932	1 000		400					6 935
Other 170 Hours			14 564	35 747	9 095		3 636					

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
GRUM MINING													
Euclid Hrs Req'd		24 826	36 266	48 118	90 815	47 848	66 543	47 267	48 914	51 307	65 306		
Euclid Hrs Taken		4 918	7 299	7 796	44 676	44 676	33 507	33 507	33 507	33 507	33 507		
Euclid Hrs remaining		19 908	28 967	40 322	46 139	3 172	33 036	13 760	15 407	17 800	31 799		
Unit Rig Hrs Req'd		20 956	30 491	42 444	48 567	3 339	34 775	14 484	16 218	18 737	33 473		
Unit Rig Hrs Taken		20 956	22 338	22 338	22 338	3 339	11 169						
Euclid Hrs remaining			7 746	19 101	24 918		22 425	13 760	15 407	17 800	31 799		
Other 170 Hrs Req'd			7 746	19 101	24 918		22 425	13 760	15 407	17 800	31 799		
Other 170 Hrs Taken			7 746	19 101	24 918		22 425	13 760	15 407	17 800	31 799		
Euclid Hrs remaining													
Wabco Hrs req'd													
Wabco Hrs Taken													
GRUM ORE													
Tonnes				573	1 010	3 750	3 323	3 134	3 280	3 406	3 615	3 070	25 161
Other 170 Hours				3 274	5 771	21 429	18 989	17 909	18 743	19 463	20 657	17 543	
DY ORE													
Tonnes				500	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000	8 500
Other 170 Hours				5 556	11 111	11 111	11 111	11 111	11 111	11 111	11 111	11 111	
TOTAL HOURS USED													
Wabco		11 460	7 649	625	1 406			2 578	1 305	1 031			
Euclid		55 845	55 845	44 676	44 676	44 676	33 507	33 507	33 507	33 507	33 507		
Unit Rig		20 956	22 338	22 338	22 338	3 339	11 169						
Other 170			22 310	63 677	50 896	32 540	56 161	42 780	45 261	48 374	63 567	28 654	
UNITS REQUIRED													
Wabco		2.7	1.8	0.1	0.3			0.6	0.3	0.2			
Euclid		10.0	10.0	8.0	8.0	8.0	6.0	6.0	6.0	6.0	6.0		
Unit Rig		3.8	4.0	4.0	4.0	0.6	2.0						
Other 170			4.0	11.4	9.1	5.8	10.1	7.7	8.1	8.7	11.4	5.1	
80% Truck Drivers													
		53	63	75	69	46	58	46	46	48	56	16	