File RECON2.WR1
July 5 1988

BLASTHOLE / FI MODEL / MILLFEED RECONCILIATION

Notes: (a) Model reserves calculated using PCMINE computer mine modelling software. Reported FI model reserves for each period are calculated between corresponding computer generated month end pit surfaces which are created from mine survey data

(b) Blasthole tonnage and grade calculated using the blasthole database and are reported from FARO geology dept. month end reports. A tonnage factor of 3 tonnes/bcy was applied for each ore type. Blast hole tonnage includes reserves mined from the ramp zone and Zone 1 which are NOT included in the FI model.

(c) Model dilution is 10% at "0" grade. Mining loss is 5%

(d) Mill tonnage and grade are reported from monthly metallurgical balance reports.

ALL	A1..K1060
ANSWER	U749..AC775
EXTRA	C771
EXTRADRE	A998..F1025
FEED	C766
KILBSTART	C758
MILLFEED	H615
PERIFEED	C759
PERIPILEADD	C760
PILES	A1028..J1062
START	C763
STOCKPILES	C767
STOCKS	A469..F526
SUMMARY	A749..H815
TOT4	B451
TOTMOVED	H611
TOTPILE	H616

006659

START-UP AUG 1986 to SEPT 31 1986

	Tonnes	%Pb	%Zn	%Pb+Zn	Ag (g/t)	tonnes lead	tonnes zinc	tonnes combined	kilograms silver
Ore blocked out in pit by blastholes and mined: less ramp zone ore (44,000 tonnes sent to waste dump from 3890 bench JB)									
low grade	183,640	1.85	2.92	4.77	NA	3,393	5,364	8,756	NA
Above 4% Pb+Zn cutoff	1,146,800	2.88	4.33	7.21	NA	33,029	49,666	82,695	NA
high grade	963,160	3.07	4.59	7.66	NA	29,576	44,202	73,778	NA
Crusher Feed reconciliation: includes all feed regardless of origin									
From Geology records	984,000	3.18	4.52	7.70	NA	31,291	44,477	75,768	NA
From Mill records	910,000	3.03	4.73	7.76	42	27,573	43,043	70,616	38,220
Predicted reserves:									
Model Undiluted:									
WASTE									
FI Waste	17,872,980	0.00				0	0	0	
FI 0.1-4%	113,910	1.20	2.23	3.42	26.00	1,365	2,540	3,896	2,962
FI total -4%	17,986,890								
ORE									
FI +4% Pb+Zn	742,290	3.52	5.79	9.31	49	26,136	42,971	69,107	36,058
FI 4-5%	64,620	1.34	3.08	4.43	27	868	1,992	2,860	1,775
FI +5%	677,670	3.73	6.05	9.78	51	25,270	40,979	66,249	34,283
FI 5-6%	47,810	2.04	3.39	5.44	43	977	1,622	2,599	2,046
FI +6%	629,860	3.86	6.25	10.11	51	24,294	39,354	63,647	32,237
Model Diluted (10% at 0 grade,95% mining recovery):									
FI +4% Pb+Zn	775,693	3.20	5.26	8.46	44	24,829	40,823	65,652	34,255
FI 4-5%	67,528	1.22	2.80	4.02	25	825	1,892	2,717	1,686
FI +5%	708,165	3.39	5.50	8.89	46	24,007	38,930	62,937	32,569
FI 4-6%	49,961	1.86	3.08	4.94	39	928	1,541	2,469	1,943
FI +6%	658,204	3.51	5.68	9.19	47	23,079	37,386	60,465	30,626

UNDILUTED FI Model Stripping Ratio (Total Waste <4% / +4%) : 24.23
DILUTED FI Model Stripping Ratio (Total Waste <4% / +4%) : 23.15

Crusher feed variance:

	Tonnes	%PB	%Zn	%Pb+Zn	Ag (g/t)				
Variance (geology-mill)	74,000	0.15	-0.21	-0.06	NA	3,718	1,434	5,152	NA
Percent variance ((g-m)/g)*100	7.5%	4.7%	-4.6%	-0.8%	NA	11.9%	3.2%	6.8%	NA

Ore reserve variance:

Variance in +4% Pb+Zn ore (blastholes-diluted model)	371,107	-0.32	-0.93	-1.25	NA	8,200	8,843	17,043	NA
Percent variance +4% Pb+Zn ((bh-m)/m)	47.8%	-10.0%	-17.7%	-14.8%	NA	33.0%	21.7%	26.0%	NA
Variance in high grade ore * (blastholes-diluted model)	304,956	-0.44	-1.09	-1.53	NA	6,497	6,816	13,313	NA
Percent var high grade to +6% ((bh-m)/m)	46.3%	-12.4%	-19.2%	-16.6%	NA	28.1%	18.2%	22.0%	NA

* high grade ore was +6% Pb+Zn at start of period and changed to +5% near end.

OCT 1 1986 to APRIL 30 1987

	Tonnes	%Pb	%Zn	%Pb+Zn	Ag (g/t)	tonnes lead	tonnes zinc	tonnes combined	kilograms silver
Ore blocked out in pit by blastholes and mined: less zone 1 and ramp zone ore									
4-5 % Pb + Zn	425,240	1.80	2.94	4.74	27	7,671	12,506	20,176	12,069
Above 4% Pb+Zn cutoff	2,266,235	2.69	4.36	7.05	33	60,909	98,891	159,800	77,550
Above 5% Pb+Zn cutoff	1,840,995	2.90	4.69	7.59	34	53,301	86,419	139,720	64,702
Crusher Feed reconciliation: includes all feed regardless of origin									
From Geology records	2,502,000	2.98	4.77	7.75	35	74,560	119,345	193,905	87,570
From Mill records	2,489,000	2.98	4.7	7.68	37	74,172	116,983	191,155	92,093
Predicted reserves:									
Model Undiluted:									
WASTE									
FI Waste	10,819,130	0	0	0.00	0	0	0	0	
FI 0.1-4%	695,470	1.012	1.954	2.97	15.805	7,038	13,589	20,628	10,992
FI total -4%	11,514,600								
ORE									
FI +4% Pb+Zn	2,121,500	2.73	4.52	7.26	35	57,959	95,977	153,936	74,176
FI 4-5%	316,960	1.75	2.76	4.51	26	5,544	8,735	14,279	8,196
FI +5%	1,804,530	2.90	4.83	7.74	37	52,404	87,231	139,635	65,981
FI 5-6%	443,640	1.83	3.64	5.48	23	8,127	16,166	24,294	10,299
FI +6%	1,360,890	3.25	5.22	8.48	41	44,283	71,066	115,349	55,682
Model Diluted (10% at 0 grade,95% mining recovery):									
FI +4% Pb+Zn	2,216,968	2.48	4.11	6.60	32	55,061	91,178	146,239	70,467
FI 4-5%	331,223	1.59	2.51	4.10	24	5,266	8,299	13,565	7,786
FI +5%	1,885,734	2.64	4.39	7.03	33	49,783	82,869	132,653	62,682
FI 4-6%	463,604	1.67	3.31	4.98	21	7,721	15,358	23,079	9,784
FI +6%	1,422,130	2.96	4.75	7.71	37	42,069	67,512	109,582	52,898

UNDILUTED FI Model Stripping Ratio (Total Waste <4% / +4%) : 5.43
DILUTED FI Model Stripping Ratio (Total Waste <4% / +4%) : 5.15

Crusher feed variance:

	Tonnes	%PB	%Zn	%Pb+Zn	Ag (g/t)				
Actual (geology-mill)	13,000	0.00	0.07	0.07	-2.00	387	2,362	2,750	(4,523)
Percent ((g-m)/g)	0.5%	0.0%	1.5%	0.9%	-5.7%	0.5%	2.0%	1.4%	-5.2%

Ore reserve variance:

Variance in +4% Pb+Zn ore (blastholes-diluted model)	49,268	0.20	0.25	0.45	1.21	5,848	7,713	13,561	7,083
Percent variance +4% Pb+Zn ((bh-m)/m)*100	2.2%	8.2%	6.1%	6.9%	3.8%	10.6%	8.5%	9.3%	10.1%
Variance in +5% Pb+Zn ore (blastholes-diluted model)	(44,739)	0.26	0.30	0.55	0.76	3,518	3,549	7,067	2,020
Percent variance +5% Pb+Zn ((bh-m)/m)*100	-2.4%	9.7%	6.8%	7.9%	2.3%	7.1%	4.3%	5.3%	3.2%

MAY 1 1987 to DEC 31 1987

	Tonnes	%Pb	%Zn	%Pb+Zn	Ag (g/t)	tonnes lead	tonnes zinc	tonnes combined	kilograms silver
Ore blocked out in pit by blastholes and mined: less Zone 1 ore									
4-5 % Pb + Zn	137,000	2.17	2.39	4.56	32	2,973	3,274	6,247	4,384
Above 4% Pb+Zn cutoff	2,743,578	3.61	5.11	8.73	42	99,149	140,257	239,405	114,795
Above 5% Pb+Zn cutoff	2,606,578	3.69	5.25	8.94	43	96,067	136,970	233,036	111,723
Crusher Feed reconciliation: includes all feed regardless of origin									
From Geology records	2,978,000	3.62	5.18	8.80	43	107,804	154,260	262,064	128,054
From Mill records	3,084,000	3.5	5.04	8.54	42	107,940	155,434	263,374	129,528
Predicted reserves:									
Model Undiluted:									
WASTE									
FI Waste	16,608,400	0	0	0.00	0	0	0	0	
FI 0.1-4%	420,700	1.045	1.692	2.74	22.301	4,396	7,118	11,515	9,382
FI total -4%	17,029,100								
ORE									
FI +4% Pb+Zn	2,747,220	3.492	4.978	8.47	45.091	95,933	136,757	232,690	123,875
FI 4-5%	297,010	1.892	2.656	4.55	31.554	5,619	7,889	13,508	9,372
FI +5%	2,450,210	3.686	5.26	8.95	46.73	90,315	128,881	219,196	114,503
FI 4-6%	336,330	2.321	3.102	5.42	36.303	7,806	10,433	18,239	12,210
FI +6%	2,113,880	3.903	5.603	9.51	48.391	82,505	118,441	200,945	102,293
Model Diluted (10% at 0 grade,95% mining recovery):									
FI +4% Pb+Zn	2,870,845	3.17	4.53	7.70	41	91,136	129,919	221,055	117,681
FI 4-5%	310,375	1.72	2.41	4.13	29	5,338	7,494	12,833	8,903
FI +5%	2,560,469	3.35	4.78	8.13	42	85,799	122,437	208,236	108,778
FI 4-6%	351,465	2.11	2.82	4.93	33	7,416	9,911	17,327	11,599
FI +6%	2,209,005	3.55	5.09	8.64	44	78,379	112,519	190,898	97,178
UNDILUTED FI Model Stripping Ratio (Total Waste <4% / +4%) :					6.20				
DILUTED FI Model Stripping Ratio (Total Waste <4% / +4%) :					5.89				
Crusher feed variance:	Tonnes	%PB	%Zn	%Pb+Zn	Ag (g/tnn)				
Actual (geology-mill)	(106,000)	0.12	0.14	0.26	1.00	(136)	(1,173)	(1,310)	(1,474)
Percent ((g-m)/g)	-3.6%	3.3%	2.7%	3.0%	2.3%	-0.1%	-0.8%	-0.5%	-1.2%
Ore reserve variance:									
Variance in +4% Pb+Zn ore (blastholes-diluted model)	(127,267)	0.44	0.59	1.03	0.85	8,013	10,338	18,350	(2,886)
Percent variance +4% Pb+Zn ((bh-m)/m)*100	-4.4%	13.8%	13.0%	13.3%	2.1%	8.8%	8.0%	8.3%	-2.5%
Variance in +5% Pb+Zn ore (blastholes-diluted model)	46,109	0.33	0.47	0.81	0.38	10,268	14,533	24,800	2,945
Percent variance +5% Pb+Zn ((bh-m)/m)*100	1.8%	10.0%	9.9%	9.9%	0.9%	12.0%	11.9%	11.9%	2.7%

JAN 1 1988 to MAY 31 1988

	Tonnes	%Pb	%Zn	%Pb+Zn	Ag (g/t)	tonnes lead	tonnes zinc	tonnes combined	kilograms silver
Ore blocked out in pit by blastholes and mined:									
4-5 % Pb + Zn	135,000	2.11	2.85	4.96	32	2,849	3,848	6,696	4,320
Above 4% Pb+Zn cutoff	2,337,000	3.87	4.87	8.74	55	90,442	113,812	204,254	128,535
Above 5% Pb+Zn cutoff	2,203,000	3.98	4.99	8.97	56	87,679	109,930	197,609	123,368
Crusher Feed reconciliation:	includes all feed regardless of origin								
From Geology records	1,884,000	3.90	4.86	8.76	55	73,476	91,562	165,038	103,620
From Mill records	1,880,000	3.78	4.67	8.45	56	71,064	87,796	158,860	105,280
Predicted reserves:									
Model Undiluted:									
WASTE									
FI Waste	7,359,100	0.00	0.00	0.00	0	0	0	0	
FI 0.1-4%	454,080	1.15	1.41	2.55	20.347	5,199	6,393	11,593	9,239
FI total -4%	7,813,180								
ORE									
FI +4% Pb+Zn	1,721,790	3.52	4.62	8.14	51.598	60,538	79,616	140,154	88,841
FI 4-5%	267,890	1.78	2.70	4.49	27.658	4,776	7,244	12,020	7,409
FI +5%	1,453,900	3.84	4.98	8.81	56.008	55,757	72,375	128,132	81,430
FI 5-6%	193,820	2.06	3.46	5.52	30.271	3,993	6,700	10,693	5,867
FI +6%	1,260,080	4.11	5.21	9.32	59.967	51,764	65,675	117,439	75,563
Model Diluted (10% at 0 grade,95% mining recovery):									
FI +4% Pb+Zn	1,799,271	3.20	4.20	7.40	47	57,511	75,635	133,146	84,399
FI 4-5%	279,945	1.62	2.46	4.08	25	4,538	6,882	11,419	7,039
FI +5%	1,519,326	3.49	4.53	8.01	51	52,969	68,756	121,726	77,359
FI 4-6%	202,542	1.87	3.14	5.02	28	3,793	6,365	10,158	5,574
FI +6%	1,316,784	3.73	4.74	8.47	55	49,176	62,392	111,567	71,785

UNDILUTED FI Model Stripping Ratio (Total Waste <4% / +4%) : 4.54
DILUTED FI Model Stripping Ratio (Total Waste <4% / +4%) : 4.30

Crusher feed variance:

	Tonnes	%PB	%Zn	%Pb+Zn	Ag (g/tnn)				
Actual (geology-mill)	4,000	0.12	0.19	0.31	-1.00	2,412	3,766	6,178	(1,660)
Percent ((g-m)/g)	0.2%	3.1%	3.9%	3.5%	-1.8%	3.3%	4.1%	3.7%	-1.6%

Ore reserve variance:

Variance in +4% Pb+Zn ore (blastholes-diluted model)	537,729	0.67	0.67	1.34	8.09	32,931	38,177	71,108	44,136
Percent variance +4% Pb+Zn ((bh-m)/m)*100	29.9%	21.1%	15.9%	18.1%	17.3%	57.3%	50.5%	53.4%	52.3%
Variance in +5% Pb+Zn ore (blastholes-diluted model)	683,675	0.49	0.46	0.96	5.08	34,710	41,173	75,884	46,009
Percent variance +5% Pb+Zn ((bh-m)/m)*100	45.0%	14.2%	10.3%	12.0%	10.0%	65.5%	59.9%	62.3%	59.5%

ALL PERIODS - STARTUP (JAN 1 1986) to MAY 31 1988

	Tonnes	%Pb	%Zn	%Pb+Zn	Ag (g/t)	tonnes lead	tonnes zinc	tonnes combined	kilograms silver
Ore blocked out in pit by blastholes and mined: not including 211,200 tonnes (hg+lg) from ramp zone and 127,187 tonnes (hg) from zone I									
4-5 % Pb + Zn	880,880	1.92	2.84	4.75	NA	16,885	24,991	41,876	NA
Above 4% Pb+Zn cutoff	8,493,613	3.34	4.74	8.08	NA	283,529	402,625	686,154	NA
Above 5% Pb+Zn cutoff	7,613,733	3.50	4.96	8.46	NA	266,623	377,520	644,143	NA
Crusher Feed reconciliation: includes all feed regardless of origin									
From Geology records	8,348,000	3.44	4.91	8.35	NA	287,130	409,645	696,775	NA
From Mill records	8,363,000	3.36	4.82	8.18	44	280,749	403,256	684,005	365,121
Predicted reserves:									
Model Undiluted:									
WASTE									
FI Waste	52,659,610	0.00	0.00	0.00	0	0	0	0	0
FI 0.1-4%	1,684,160	1.07	1.76	2.83	19	17,998	29,641	47,631	32,575
FI total -4%	54,343,770								
ORE									
FI +4% Pb+Zn	7,332,800	3.28	4.85	8.13	44	240,566	355,320	595,886	322,950
FI 4-5%	946,480	1.78	2.73	4.51	28	16,808	25,859	42,667	26,751
FI +5%	6,386,310	3.50	5.16	8.66	46	223,746	329,466	553,212	296,197
FI 4-6%	1,021,600	2.05	3.42	5.46	30	20,903	34,922	55,825	30,422
FI +6%	5,364,710	3.78	5.49	9.27	50	202,846	294,535	497,381	265,776
Model Diluted (10% at 0 grade,95% mining recovery):									
FI +4% Pb+Zn	7,662,776	2.98	4.41	7.39	40	228,538	337,554	566,092	306,803
FI 4-5%	989,072	1.61	2.48	4.10	26	15,968	24,566	40,534	25,414
FI +5%	6,673,694	3.19	4.69	7.87	42	212,558	312,993	525,551	281,388
FI 4-6%	1,067,572	1.86	3.11	4.97	27	19,858	33,176	53,034	28,900
FI +6%	5,606,122	3.44	4.99	8.43	45	192,704	279,809	472,512	252,487
UNDILUTED FI Model Stripping Ratio (Total Waste <4% / +4%) :					7.41				
DILUTED FI Model Stripping Ratio (Total Waste <4% / +4%) :					7.05				
Crusher feed variance:	Tonnes	%PB	%Zn	%Pb+Zn	Ag (g/tnn)				
Actual (geology-mill)	(15,000)	0.08	0.09	0.17	NA	6,381	6,389	12,771	NA
Percent ((g-m)/g)	-0.2%	2.4%	1.7%	2.0%	NA	2.2%	1.6%	1.8%	NA
Ore reserve variance:									
Variance in +4% Pb+Zn ore (blastholes-diluted model)	830,837	0.36	0.34	0.69	NA	54,991	65,071	120,062	NA
Percent Variance +4% Pb+Zn ((bh-m)/m)*100	10.8%	11.9%	7.6%	9.4%	NA	24.1%	19.3%	21.2%	NA
Variance in +5% Pb+Zn ore (blastholes-diluted model)	940,039	0.32	0.27	0.59	NA	54,064	64,528	118,592	NA
Percent Variance +5% Pb+Zn ((bh-m)/m)*100	14.1%	9.9%	5.7%	7.4%	NA	25.4%	20.6%	22.6%	NA

REMAINING RESERVES FARO PIT - AS OF MAY 31 1988
REDESIGNED CD PHASE

	Tonnes	%Pb	%Zn	%Pb+Zn	Ag (g/t)	tonnes lead	tonnes zinc	tonnes combined	kilograms silver
Model Undiluted:									
WASTE									
FI Waste	21,410,180	0	0	0.00	0	0	0	0	0
FI 0.1-4%	4,825,630	1.06	1.82	2.88	19	51,152	87,826	138,978	91,687
FI total -4%	26,235,810								
ORE									
FI +4%	14,962,520	2.965	4.719	7.68	35.698	443,639	706,081	1,149,720	534,132
FI 4-5%	2,268,950	1.735	2.765	4.50	26.707	39,366	62,736	102,103	60,597
FI +5%	12,693,580	3.185	5.068	8.25	37.305	404,291	643,311	1,047,601	473,534
FI 5-6%	2,482,530	2.089	3.373	5.46	29.975	51,860	83,736	135,596	74,414
FI +6%	10,211,040	3.452	5.48	8.93	39.087	352,485	559,565	912,050	399,119
Model Diluted (10% at 0 grade,95% mining recovery):									
FI +4%	15,635,833	2.70	4.29	6.99	32	421,457	670,777	1,092,234	507,425
FI 4-5%	2,371,053	1.58	2.51	4.09	24	37,398	59,600	96,998	57,567
FI +5%	13,264,791	2.90	4.61	7.50	34	384,076	611,145	995,221	449,857
FI 4-6%	2,594,244	1.90	3.07	4.97	27	49,267	79,549	128,816	70,693
FI +6%	10,670,537	3.14	4.98	8.12	36	334,861	531,587	866,448	379,163

UNDIL. FI Model Stripping Ratio (Total Waste <4% / +4%) : 1.75
DILUTED FI Model Stripping Ratio (Total Waste <4% / +4%) : 1.63

STARTING RESERVES FARO PIT - AS OF JAN 1 1986
REDESIGNED CD PHASE

	Tonnes	%Pb	%Zn	%Pb+Zn	Ag (g/t)	tonnes lead	tonnes zinc	tonnes combined	kilograms silver
Model Undiluted:									
WASTE									
FI Waste	73,583,770	0.00	0.00	0.00	0	0	0	0	0
FI 0.1-4%	6,748,820					0	0	0	0
FI total -4%	80,332,590								
ORE									
FI +4%	22,265,200	3.07	4.76	7.83	38	683,542	1,059,824	1,743,365	855,897
FI 4-5%	3,200,960	1.75	2.75	4.50	27	56,138	87,929	144,066	86,959
FI +5%	19,064,240	3.29	5.10	8.39	40	627,404	971,895	1,599,299	768,937
FI 5-6%	3,503,920	2.07	3.39	5.46	30	72,679	118,723	191,401	104,823
FI +6%	15,560,320	3.57	5.48	9.05	43	554,725	853,172	1,407,898	664,114
Model Diluted (10% at 0 grade,95% mining recovery):									
FI +4%	23,267,134	2.79	4.33	7.12	35	649,365	1,006,832	1,656,197	813,102
FI 4-5%	3,345,003	1.59	2.50	4.09	25	53,331	83,532	136,863	82,612
FI +5%	19,922,131	2.99	4.63	7.63	37	596,034	923,300	1,519,334	730,490
FI 4-6%	3,661,596	1.89	3.08	4.97	27	69,045	112,786	181,831	99,581
FI +6%	16,260,534	3.24	4.98	8.23	39	526,989	810,514	1,337,503	630,909
UNDIL. FI Model Stripping Ratio (Total Waste <4% / +4%) :					3.61				
DILUTED FI Model Stripping Ratio (Total Waste <4% / +4%) :					3.41				

STARTING RESERVES FROM THE KILBORN AUGUST 1985 REPORT ("THE MAROON BOOK")

Unadjusted from "T-3" model

	Tonnes	%Pb	%Zn	%Pb+Zn	Ag (g/t)	tonnes lead	tonnes zinc	tonnes combined	kilograms silver
+4% Pb+Zn	23,763,000	3.09	4.60	7.69	38.11	735,402	1,093,098	1,828,500	905,495
4 to 6% Pb+Zn	6,602,000	2.08	3.27	5.36	29.37	137,600	216,129	353,728	193,890
+6% Pb+Zn	17,180,000	3.54	5.19	8.73	42.11	607,629	891,552	1,499,181	723,368
Adjusted (grade reduced by 5% but tonnage unchanged)									
+4% Pb+Zn	23,763,000	2.94	4.37	7.31	36	698,632	1,038,443	1,737,075	860,221
4 to 6% Pb+Zn	6,602,000	1.98	3.11	5.09	28	130,720	205,322	336,042	184,196
+6% Pb+Zn	17,180,000	3.36	4.93	8.29	40	577,248	846,974	1,424,222	687,200

VARIANCE BETWEEN THE TWO STARTING RESERVE ESTIMATES AND PIT DESIGNS

Diluted FI model to adjusted T-3 model

+4% Pb+Zn (old-new)	495,866	0.15	0.04	0.19	1.25	49,268	31,611	80,878	47,119
+6% Pb+Zn	919,466	0.12	-0.05	0.06	1.20	50,259	36,460	86,719	56,291
+4% Pb+Zn (old-new)	2.1%	5.1%	1.0%	2.6%	3.5%	7.1%	3.0%	4.7%	5.5%
+6% Pb+Zn	5.4%	3.5%	-1.1%	0.8%	3.0%	8.7%	4.3%	6.1%	8.2%

ORE MINED FROM FARO PIT - JAN 1 1986 TO MAY 31, 1988
WITHIN REDESIGNED CD PHASE

	Tonnes	%Pb	%Zn	%Pb+Zn	Ag (g/t)	tonnes lead	tonnes zinc	tonnes combined	kilograms silver
Model Undiluted:									
WASTE									
FI Waste	52,173,590	0.00	0.00	0.00	0	0	0	0	0
FI 0.1-4%	1,923,190					(51,152)	(87,826)	(138,978)	(91,687)
FI total -4%	54,096,780					0	0	0	0
ORE									
FI +4%	7,302,680	3.29	4.84	8.13	44	239,903	353,742	593,645	321,765
FI 4-5%	932,010	1.80	2.70	4.50	28	16,771	25,192	41,963	26,363
FI +5%	6,370,660	3.50	5.16	8.66	46	223,114	328,584	551,698	295,403
FI 5-6%	1,021,390	2.04	3.43	5.46	30	20,819	34,987	55,806	30,409
FI +6%	5,349,280	3.78	5.49	9.27	50	202,240	293,607	495,848	264,996
Model Diluted (10% at 0 grade, 95% mining recovery):									
FI +4%	7,631,301	2.99	4.40	7.39	40	227,908	336,055	563,963	305,676
FI 4-5%	973,950	1.64	2.46	4.09	26	15,933	23,932	39,865	25,045
FI +5%	6,657,340	3.18	4.69	7.87	42	211,958	312,155	524,113	280,633
FI 4-6%	1,067,353	1.85	3.11	4.97	27	19,778	33,238	53,015	28,888
FI +6%	5,589,998	3.44	4.99	8.43	45	192,128	278,927	471,055	251,746

UNDIL. FI Model Stripping Ratio (Total Waste <4% / +4%) : 7.41
DILUTED FI Model Stripping Ratio (Total Waste <4% / +4%) : 7.05

STOCKPILE INVENTORY: START-UP JAN 1986 TO SEPT 30 1986

Stockpile	Beginning	Ending	Change
Low grade "A"	0.0	57.6	57.6
Low grade "C"	0.0	86.7	86.7
High grade CR	0.0	64.9	64.9
High grade "B"	0.0	0.0	0.0
High grade "D"	0.0	0.0	0.0
High grade COARSE	0.0	0.0	0.0
Oxide Stockpile	?	?	(69.1)

STOCKPILE INVENTORY: OCT 1 1986 to APRIL 30 1987

Stockpile	Beginning	Ending	Change
Low grade "A"	57.6	318.0	260.4
Low grade "C"	86.7	237.0	150.3
High grade CR	64.9	95.0	30.1
High grade "B"	0.0	0.0	0.0
High grade "D"	0.0	0.0	0.0
High grade COARSE	0.0	0.0	0.0
Oxide Stockpile	?	?	(570.2)

STOCKPILE INVENTORY: MAY 1 1987 to DEC 31 1987

Stockpile	Beginning	Ending	Change
Low grade "A"	318.0	367.8	49.8
Low grade "C"	237.0	198.0	(39.0)
High grade CR	95.0	43.5	(51.5)
High grade "B"	0.0	17.3	17.3
High grade "D"	0.0	0.0	0.0
High grade COARSE	0.0	15.1	15.1
Oxide Stockpile	0.0	0.0	0.0

STOCKPILE INVENTORY: JAN 1 1988 to MAY 31 1988

Stockpile	Beginning	Ending	Change
Low grade "A"	367.8	468.4	100.6
Low grade "C"	198.0	206.0	8.0
broken in pit		259.4	
High grade CR	43.5	14.9	(28.6)
High grade "B"	17.3	312.6	295.3
High grade "D"	0.0	110.4	110.4
High grade COARSE	15.1	3.2	(11.9)
Oxide Stockpile	0.0	0.0	0.0

total thru crusher:	3.2
total crusher feed, High Grade:	674.4
total crusher feed, Low Grade:	437.9
Broken in pit	259.4
Total crusher feed available:	1371.7

STARTUP (JAN 1 1986) to DEC 31 1988

	Tonnes	%Pb	%Zn	%Pb+Zn	Ag (g/t)	tonnes lead	tonnes zinc	tonnes combined	kilograms silver
Ore blocked out in pit by blastholes and mined:									
4-5 % Pb + Zn	745,880	1.88	2.83	4.72	NA	14,036	21,144	35,180	NA
Above 4% Pb+Zn cutoff	6,156,613	3.14	4.69	7.83	NA	193,087	288,813	481,900	NA
Above 5% Pb+Zn cutoff	5,410,733	3.31	4.95	8.25	NA	178,943	267,590	446,534	NA
Crusher Feed reconciliation:									
From Geology records	6,464,000	3.31	4.92	8.23	NA	213,654	318,083	531,737	NA
From Mill records	6,483,000	3.23	4.87	8.10	40	209,685	315,460	525,145	259,841
Predicted reserves:									
Model Undiluted:									
WASTE									
FI Waste	45,300,510	0.00	0.00	0.00	0	0	0	0	0
FI 0.1-4%	1,230,080	1.04	1.89	2.93	19	12,799	23,248	36,038	23,336
FI total -4%	46,530,590					0	0	0	0
ORE									
FI +4% Pb+Zn	5,611,010	3.21	4.91	8.12	42	180,028	275,704	455,733	234,109
FI 4-5%	678,590	1.77	2.74	4.52	29	12,032	18,616	30,647	19,342
FI +5%	4,932,410	3.41	5.21	8.62	44	167,989	257,091	425,079	214,767
FI 4-6%	827,780	2.04	3.41	5.45	30	16,910	28,221	45,132	24,554
FI +6%	4,104,630	3.68	5.58	9.26	46	151,082	228,860	379,942	190,212
Model Diluted (10% at 0 grade,95% mining recovery):									
FI +4% Pb+Zn	5,863,505	2.92	4.47	7.38	38	171,027	261,919	432,946	222,404
FI 4-5%	709,127	1.61	2.49	4.11	26	11,430	17,685	29,115	18,375
FI +5%	5,154,368	3.10	4.74	7.83	40	159,589	244,236	403,825	204,029
FI 4-6%	865,030	1.86	3.10	4.96	27	16,065	26,810	42,875	23,327
FI +6%	4,289,338	3.35	5.07	8.41	42	143,528	217,417	360,945	180,702

UNDILUTED FI Model Stripping Ratio (Total Waste <4% / +4%) : 8.29
DILUTED FI Model Stripping Ratio (Total Waste <4% / +4%) : 7.89

Crusher feed variance:

	Tonnes	%Pb	%Zn	%Pb+Zn	Ag (g/t)				
Actual (geology-mill)	(19,000)	0.07	0.05	0.13	NA	3,969	2,623	6,592	NA
Percent ((g-m)/g)	-0.3%	2.1%	1.1%	1.5%	NA	1.9%	0.8%	1.2%	NA

Ore reserve variance:

Variance in +4% Pb+Zn ore (blastholes-diluted model)	293,108	0.22	0.22	0.44	NA	22,060	26,894	48,954	NA
Percent Variance +4% Pb+Zn ((bh-m)/m)*100	5.0%	7.5%	5.0%	6.0%	NA	12.9%	10.3%	11.3%	NA
Variance in +5% Pb+Zn ore (blastholes-diluted model)	256,365	0.21	0.21	0.42	NA	19,354	23,354	42,708	NA
Percent Variance +5% Pb+Zn ((bh-m)/m)*100	5.0%	6.8%	4.4%	5.3%	NA	12.1%	9.6%	10.6%	NA

30-Jun-88

FARO OPEN PIT
SUMMARY OF THE RECONCILIATION FOR ALL PERIODS

	REDESIGNED CD PHASE starting reserves	period 1 07-Jun-86 to 30-Sep-86	period 2 30-Sep-86 to 30-Apr-87	period 3 30-Apr-87 to 31-Dec-87	period 4 31-Dec-87 to 31-May-88	REDESIGNED CD PHASE remaining reserves	col A total of periods 1 to 4	col B starting reserves less remaining reserves	colA-colB
waste tonnes	80,332,050	17,986,890	11,514,600	17,029,100	10,089,497	26,235,810	56,620,087	54,096,240	2,523,847
undiluted +4%	22,265,200	742,290	2,121,500	2,747,220	1,721,790	14,962,520	7,332,800	7,302,680	30,120
undiluted +5%	19,064,240	677,670	1,804,530	2,450,210	1,453,900	12,693,580	6,386,310	6,370,660	15,650
undiluted +6%	15,560,320	629,860	1,360,890	2,113,880	1,260,080	10,211,040	5,364,710	5,349,280	15,430
diluted +4%	23,267,134	775,693	2,216,968	2,870,845	1,799,271	15,635,833	7,662,776	7,631,301	31,475
diluted +5%	19,922,131	708,165	1,885,734	2,560,469	1,519,326	13,264,791	6,673,694	6,657,340	16,354
diluted +6%	16,260,534	658,204	1,422,130	2,209,005	1,316,784	10,670,537	5,606,122	5,589,998	16,124
pit ore blocked out +4%		1,326,000	2,350,000	2,819,000	2,337,000		8,832,000		
pit ore blocked out +5%		1,127,000	1,903,000	2,682,000	2,203,000		7,915,000		
mill feed from geology		984,000	2,502,000	2,978,000	1,884,000		8,348,000		
mill feed from mill		910,000	2,489,000	3,084,000	1,880,000		8,363,000		
stockpile change*		209,200	440,800	(23,400)	485,700		1,112,300		
closing stockpile*		209,200	650,000	626,600	1,112,300				
broken in pit					259,401		259,401		
oxide stockpile change		(69,100)	(570,200)	0	0		(639,300)		
waste from engineering dept		15,763,463	12,889,860	17,607,775	10,089,497		56,350,595		
high grade from eng dept		1,350,529	1,497,559	2,930,686	2,103,866		7,882,640		
low grade from eng dept		266,251	306,061	161,919	181,520		915,751		
total sulphide from eng dept		1,616,780	1,803,620	3,092,605	2,285,386		8,798,391		
WASTE TO ORE RATIOS									
waste less dil/dil +4%	3.41	23.15	5.15	5.89	5.56	1.63	7.35		
waste less dil/dil +5%	3.99	25.36	6.06	6.61	6.60	1.93	8.44		
waste less dil/dil +6%	4.90	27.28	8.05	7.67	7.62	2.42	10.06		
total waste/undil +4%	3.61	24.23	5.43	6.20	5.86	1.75	7.72		
total waste/undil +5%	4.21	26.54	6.38	6.95	6.94	2.07	8.87		
total waste/undil +6%	5.16	28.56	8.46	8.06	8.01	2.57	10.55		
tot model waste/geol mill feed		18.28	4.60	5.72	5.36		6.78		
tot eng waste/geol mill feed		16.02	5.15	5.91	5.36		6.75		
tot eng waste/mill's mill feed		17.32	5.18	5.71	5.37		6.74		
tot eng waste/eng hi+lo grade		9.75	7.15	5.69	4.41		6.40		
DEFFERRED STRIPPING CALCULATION:									
TOT WASTE LESS 4% DIL	79,330,116	17,953,487	11,419,133	16,905,475	10,012,016	25,562,497			
FOR DILUTED ORE AT 4% CUTOFF WASTE AT PIT AVG.=	79,330,116	2,644,753	7,558,829	9,788,247	6,134,677	53,310,927			
FOR DILUTED ORE AT 4% CUTOFF EXCESS WASTE OVER PIT AVERAGE=	0	15,308,734	3,860,303	7,117,228	3,877,340	(27,748,430)			
CUMULATIVE EXCESS TONNAGE=	0	15,308,734	19,169,037	26,286,265	30,163,605	2,415,175			

* only stockpiled ore from pit considered, not oxide stockpile

DEFFERRED STRIPPING CALCULATION:

TOT WASTE MOVED PER ENG DEPT	15,763,463	12,889,860	17,607,775	10,089,497
TOTAL +4% MOVED PER ENG DEPT	1,616,780	1,803,620	3,092,605	2,285,386
WASTE TO BE MOVED AT PIT AVG FOR DILUTED +4% SULPHIDES	5,512,469	6,149,506	10,544,346	7,792,104
EXCESS WASTE OVER PIT AVG.	10,250,994	6,740,354	7,063,429	2,297,393
CUMULATIVE EXCESS TONNAGE=	10,250,994	16,991,348	24,054,777	26,352,170

30-Jun-88

FARO OPEN PIT

SUMMARY OF THE RECONCILIATION FOR ALL PERIODS

with ore density from model increased by 10 % to be consistent with 3 tonnes/bcy

	REDESIGNED CD PHASE starting reserves	period 1 07-Jun-86 to 30-Sep-86	period 2 30-Sep-86 to 30-Apr-87	period 3 30-Apr-87 to 31-Dec-87	period 4 31-Dec-87 to 31-May-88	REDESIGNED CD PHASE remaining reserves	total of periods 1 to 4	starting reserves less remaining reserves	colA-colB
waste tonnes	80,332,050	17,986,890	11,514,600	17,029,100	7,813,180	26,235,810	54,343,770	54,096,240	247,530
undiluted +4%	24,491,720	816,519	2,333,650	3,021,942	1,893,969	16,458,772	8,066,080	8,032,948	33,132
undiluted +5%	20,970,664	745,437	1,984,983	2,695,231	1,599,290	13,962,938	7,024,941	7,007,726	17,215
undiluted +6%	17,116,352	692,846	1,496,979	2,325,268	1,386,088	11,232,144	5,901,181	5,884,208	16,973
diluted +4%	25,593,847	853,262	2,438,664	3,157,929	1,979,198	17,199,417	8,429,054	8,394,431	34,623
diluted +5%	21,914,344	778,982	2,074,307	2,816,516	1,671,258	14,591,270	7,341,063	7,323,074	17,990
diluted +6%	17,886,588	724,024	1,564,343	2,429,905	1,448,462	11,737,590	6,166,734	6,148,997	17,737
pit ore blocked out +4%		1,326,000	2,350,000	2,819,000	2,337,000		8,832,000		
pit ore blocked out +5%		1,127,000	1,903,000	2,682,000	2,203,000		7,915,000		
mill feed from geology		984,000	2,502,000	2,978,000	1,884,000		8,348,000		
mill feed from mill		910,000	2,489,000	3,084,000	1,880,000		8,363,000		
stockpile change*		209,200	440,800	(23,400)	485,700		1,112,300		
closing stockpile*		209,200	650,000	626,600	1,112,300		1,112,300		
oxide stockpile change		(69,100)	(570,200)	0	0		(639,300)		
broken in pit					259,401		259,401		
waste from engineering dept		15,763,463	12,889,860	17,607,775	10,089,497		56,350,595		
high grade from eng dept		1,350,529	1,497,559	2,930,686	2,103,866		7,882,640		
low grade from eng dept		266,251	306,061	161,919	181,520		915,751		
total sulphide from eng dept		1,616,780	1,803,620	3,092,605	2,285,386		8,798,391		
WASTE TO ORE RATIOS									
waste less dil/dil +4%	3.10	21.04	4.68	5.35	5.05	1.48	6.67		
waste less dil/dil +5%	3.62	23.05	5.51	6.00	5.99	1.75	7.67		
waste less dil/dil +6%	4.45	24.80	7.32	6.97	6.92	2.19	9.14		
total waste/undil +4%	3.28	22.03	4.93	5.64	5.33	1.59	7.02		
total waste/undil +5%	3.83	24.13	5.80	6.32	6.31	1.88	8.06		
total waste/undil +6%	4.69	25.96	7.69	7.32	7.28	2.34	9.59		
tot model waste/geol mill feed		18.28	4.60	5.72	4.15		6.51		
tot eng waste/geol mill feed		16.02	5.15	5.91	5.36		6.75		
tot eng waste/mill's mill feed		17.32	5.18	5.71	5.37		6.74		
tot eng waste/eng hi+lo grade		9.75	7.15	5.69	4.41		6.40		
TOT WASTE LESS 4% DIL	79,229,923	17,950,147	11,409,586	16,893,113	7,727,951	25,495,165			
FOR DILUTED ORE AT 4% CUTOFF WASTE AT PIT AVG.=	79,229,923	2,641,413	7,549,282	9,775,885	6,126,928	53,243,595			
FOR DILUTED ORE AT 4% CUTOFF EXCESS WASTE OVER PIT AVERAGE=	0	15,308,734	3,860,303	7,117,228	1,601,023	(27,748,430)			
CUMULATIVE EXCESS TONNAGE=	0	15,308,734	19,169,037	26,286,265	27,887,288	138,858			

* only stockpiled ore from pit considered, not oxide stockpile

DEFFERRED STRIPPING CALCULATIDN:

TOT WASTE MOVED PER ENG DEPT	15,763,463	12,889,860	17,607,775	10,089,497
TOTAL +4% MOVED PER ENG DEPT	1,616,780	1,803,620	3,092,605	2,285,386
WASTE TO BE MOVED AT PIT AVG FOR DILUTED +4% SULPHIDES	5,005,006	5,583,399	9,573,662	7,074,785
EXCESS WASTE OVER PIT AVG.	10,758,457	7,306,461	8,034,113	3,014,712
CUMULATIVE EXCESS TONNAGE=	10,758,457	18,064,918	26,099,030	29,113,743

CURRAGH RESOURCES INC.
RECONCILIATION OF RESERVES FOR THE FARO PIT
FROM SEPTEMBER 28 1986 TO MAY 1 1988

	tonnes ore	tonnes lead	tonnes zinc	kilograms silver	tonnes waste	waste to ore ratio
Starting reserves per Kilborn (Aug 85)	23,763,000	649,365	1,006,832	813,102	87,498,000	3.68
period 1 millfeed less oxide	840,900	27,573	43,043	38,220	15,763,463	18.75
period 1 stockpile	209,200	4,812	5,858	NA	0	
start of period 2 reserve	22,922,100	621,792	963,789	774,882	71,734,537	3.13
Starting reserves per current design	23,267,134	698,632	1,038,443	860,221	79,330,656	3.41
	21,569,610					
	1,697,524					
total millfeed incl. oxide pile	8,363,000	280,749	403,256	365,121	NA	NA
total addition to stockpiles	1,112,300	29,105	40,496	43,719	NA	NA
broken in pit	259,001	7,848	10,023	8,806		
Extra ore not in original reserves (oxide stockpile,ramp zone,Zone I)	977,711	33,196	48,700	38,471	NA	NA
Actual feed plus stockpile for the area of the pit modeled	8,497,589	276,658	395,052	370,369	NA	NA
Predicted feed plus stockpile for the area of the pit modeled	7,662,776	228,566	355,320	322,950	54,013,794	7.05
total waste moved from pit					56,350,595	
Remaining reserves per current design	15,635,833	421,457	670,777	507,425	24,739,558	1.58

DEFERRED STRIPPING CALCULATION

pit average stripping ratio: 3.09

description (all quantities in tonnes)	period 1 01-Jan-86 to 30-Sep-86	period 2 30-Sep-86 to 30-Apr-87	period 3 30-Apr-87 to 31-Dec-87	period 4 31-Dec-87 to 31-May-88	total of periods
total waste moved	17,522,510	11,130,813	17,607,775	10,089,497	56,350,595
millfeed	984,000	2,502,000	2,978,000	1,884,000	8,348,000
allocated waste at pit average	3,040,560	7,731,180	9,202,020	5,821,560	25,795,320
sent to stockpiles	209,200	440,800	(23,400)	485,700	1,112,300
allocated waste at pit average	646,428	1,362,072	(72,306)	1,500,813	3,437,007
total waste moved in excess of the pit average ratio times the millfeed	14,481,950	3,399,633	8,405,755	4,267,937	30,555,275
cumulative excess waste moved	14,481,950	17,881,583	26,287,338	30,555,275	

MAY 1 1987 to DEC 31 1987
comparison to the F8701 model instead of the FI model

	Tonnes	%Pb	%Zn	%Pb+Zn	Ag (g/t)	tonnes lead	tonnes zinc	tonnes combined	kilograms silver
Ore blocked out in pit by blastholes and mined: less Zone 1 ore									
4-5 % Pb + Zn	137,000	2.17	2.39	4.56	32	2,973	3,274	6,247	4,384
Above 4% Pb+Zn cutoff	2,743,578	3.61	5.11	8.73	42	99,149	140,257	239,405	114,795
Above 5% Pb+Zn cutoff	2,606,578	3.69	5.25	8.94	43	96,067	136,970	233,036	111,723
Crusher Feed reconciliation:									
From Geology records	2,978,000	3.62	5.18	8.80	43	107,804	154,260	262,064	128,054
From Mill records	3,084,000	3.50	5.04	8.54	42	107,940	155,434	263,374	129,528
Predicted reserves:									
Model Undiluted:									
WASTE									
Waste	NA	0	0	0.00	0	NA	NA	NA	
0.1-4%	250,780	1.05	1.69	2.74	22	2,621	4,243	6,864	5,593
total -4%	NA								
ORE									
+4% Pb+Zn	2,688,420	3.34	4.84	8.18	42	89,739	130,120	219,859	113,051
4-5%	332,850	1.73	2.79	4.51	25	5,742	9,283	15,025	8,291
+5%	2,355,560	3.57	5.13	8.70	44	83,999	120,840	204,839	104,759
5-6%	336,640	2.06	3.42	5.48	26	6,931	11,506	18,438	8,885
+6%	2,018,930	3.82	5.42	9.23	47	77,083	109,345	186,428	95,875
Model Diluted (10% at 0 grade,95% mining recovery):									
+4% Pb+Zn	2,809,399	3.03	4.40	7.43	38	85,252	123,614	208,866	107,398
4-5%	347,828	1.57	2.54	4.10	23	5,455	8,819	14,274	7,876
+5%	2,461,560	3.24	4.66	7.91	40	79,799	114,798	194,598	99,521
5-6%	351,789	1.87	3.11	4.98	24	6,585	10,931	17,516	8,441
+6%	2,109,782	3.47	4.92	8.39	43	73,229	103,878	177,107	91,081

UNDILUTED FI Model Stripping Ratio (Total Waste <4% / +4%) : NA
DILUTED FI Model Stripping Ratio (Total Waste <4% / +4%) : NA

Crusher feed variance:

	Tonnes	%PB	%Zn	%Pb+Zn	Ag (g/tnn)				
Actual (geology-mill)	(106,000)	0.12	0.14	0.26	1.00	(136)	(1,173)	(1,310)	(1,474)
Percent ((g-m)/g)	-3.6%	3.3%	2.7%	3.0%	2.3%	-0.1%	-0.8%	-0.5%	-1.2%

Ore reserve variance:

Variance in +4% Pb+Zn ore (blastholes-diluted model)	(65,821)	0.58	0.71	1.29	3.61	13,896	16,643	30,539	7,397
Percent variance +4% Pb+Zn ((bh-m)/m)*100	-2.3%	19.1%	16.2%	17.4%	9.5%	16.3%	13.5%	14.6%	6.9%
Variance in +5% Pb+Zn ore (blastholes-diluted model)	145,018	0.44	0.59	1.03	2.43	16,267	22,171	38,439	12,202
Percent variance +5% Pb+Zn ((bh-m)/m)*100	5.9%	13.7%	12.7%	13.1%	6.0%	20.4%	19.3%	19.8%	12.3%

JAN 1 1988 to MAY 31 1988
comparison to the F8701 model instead of the FI model

	Tonnes	%Pb	%Zn	%Pb+Zn	Ag (g/t)	tonnes lead	tonnes zinc	tonnes combined	kilograms silver
Ore blocked out in pit by blastholes and mined:									
4-5 % Pb + Zn	135,000	2.11	2.85	4.96	32	2,849	3,848	6,696	4,320
Above 4% Pb+Zn cutoff	2,337,000	3.87	4.87	8.74	55	90,442	113,812	204,254	128,535
Above 5% Pb+Zn cutoff	2,203,000	3.98	4.99	8.97	56	87,679	109,930	197,609	123,368
Crusher Feed reconciliation:									
From Geology records	1,884,000	3.90	4.86	8.76	55	73,476	91,562	165,038	103,620
From Mill records	1,880,000	3.78	4.67	8.45	56	71,064	87,796	158,860	105,280
Predicted reserves:									
Model Undiluted:									
WASTE									
Waste	NA	0.00	0.00	0.00	0	NA	NA	NA	
0.1-4%	183,590	1.10	1.54	2.64	17	2,027	2,820	4,847	3,121
total -4%	NA								
ORE									
+4% Pb+Zn	1,996,490	3.73	4.86	8.60	55	74,549	97,049	171,598	108,887
4-5%	127,350	1.70	2.85	4.55	25	2,170	3,627	5,797	3,240
+5%	1,869,140	3.87	5.00	8.87	57	72,392	93,420	165,811	105,648
5-6%	222,810	2.19	3.38	5.56	33	4,873	7,522	12,395	7,324
+6%	1,646,330	4.10	5.22	9.32	60	67,516	85,889	153,405	98,322
Model Diluted (10% at 0 grade,95% mining recovery):									
+4% Pb+Zn	2,086,332	3.39	4.42	7.81	50	70,821	92,197	163,018	103,442
4-5%	133,081	1.55	2.59	4.14	23	2,062	3,446	5,507	3,078
+5%	1,953,251	3.52	4.54	8.06	51	68,772	88,749	157,521	100,365
5-6%	232,836	1.99	3.07	5.06	30	4,629	7,146	11,775	6,958
+6%	1,720,415	3.73	4.74	8.47	54	64,140	81,595	145,735	93,406
UNDILUTED Model Stripping Ratio (Total Waste <4% / +4%) :					NA				
DILUTED Model Stripping Ratio (Total Waste <4% / +4%) :					NA				
Crusher feed variance:	Tonnes	%PB	%Zn	%Pb+Zn	Ag (g/tnn)				
Actual (geology-mill)	4,000	0.12	0.19	0.31	-1.00	2,412	3,766	6,178	(1,660)
Percent ((g-m)/g)	0.2%	3.1%	3.9%	3.5%	-1.8%	3.3%	4.1%	3.7%	-1.6%
Ore reserve variance:									
Variance in +4% Pb+Zn ore (blastholes-diluted model)	250,668	0.48	0.45	0.93	5.42	19,620	21,615	41,235	25,093
Percent variance +4% Pb+Zn ((bh-m)/m)*100	12.0%	14.0%	10.2%	11.9%	10.9%	27.7%	23.4%	25.3%	24.3%
Variance in +5% Pb+Zn ore (blastholes-diluted model)	249,749	0.46	0.45	0.91	4.62	18,907	21,181	40,088	23,003
Percent variance +5% Pb+Zn ((bh-m)/m)*100	12.8%	13.0%	9.8%	11.2%	9.0%	27.5%	23.9%	25.4%	22.9%

MAY 1 1987 to MAY 31 1988
comparison to the F8701 model instead of the FI model

	Tonnes	%Pb	%Zn	%Pb+Zn	Ag (g/t)	tonnes lead	tonnes zinc	tonnes combined	kilograms silver
Ore blocked out in pit by blastholes and mined: less Zone 1 ore									
4-5 % Pb + Zn	272,000	2.14	2.62	4.76	32	5,821	7,122	12,943	8,704
Above 4% Pb+Zn cutoff	5,080,578	3.73	5.00	8.73	48	189,591	254,069	443,659	243,330
Above 5% Pb+Zn cutoff	4,809,578	3.82	5.13	8.95	49	183,746	246,899	430,646	235,091
Crusher Feed reconciliation:									
From Geology records	4,862,000	3.73	5.06	8.78	48	181,280	245,823	427,102	231,674
From Mill records	4,964,000	3.61	4.90	8.51	47	179,004	243,230	422,234	234,808
Predicted reserves:									
Model Undiluted:									
WASTE									
Waste	NA	0.00	0.00	0.00	0	NA	NA	NA	
0.1-4%	434,370	1.10	1.54	2.64	17	4,795	6,672	11,467	7,384
total -4%	NA								
ORE									
+4% Pb+Zn	4,684,910	3.51	4.85	8.36	47	164,288	227,169	391,457	221,937
4-5%	460,200	1.72	2.81	4.52	25	7,912	12,910	20,822	11,530
+5%	4,224,700	3.70	5.07	8.77	50	156,391	214,260	370,651	210,406
5-6%	559,450	2.11	3.40	5.51	29	11,804	19,028	30,833	16,209
+6%	3,665,260	3.95	5.33	9.27	53	144,599	195,234	339,833	194,197
Model Diluted (10% at 0 grade,95% mining recovery):									
+4% Pb+Zn	4,895,731	3.19	4.41	7.60	43	156,074	215,810	371,884	210,840
4-5%	480,909	1.56	2.55	4.11	23	7,516	12,265	19,781	10,954
+5%	4,414,812	3.37	4.61	7.98	45	148,572	203,547	352,118	199,886
5-6%	584,625	1.92	3.09	5.01	26	11,214	18,077	29,291	15,399
+6%	3,830,197	3.59	4.84	8.43	48	137,369	185,473	322,841	184,487
UNDILUTED Model Stripping Ratio (Total Waste <4% / +4%) :					NA				
DILUTED Model Stripping Ratio (Total Waste <4% / +4%) :					NA				
Crusher feed variance:	Tonnes	%Pb	%Zn	%Pb+Zn	Ag (g/t)				
Actual (geology-mill)	(102,000)	0.12	0.16	0.28	0.35	2,276	2,593	4,869	(3,134)
Percent ((g-m)/g)	-2.1%	3.3%	3.1%	3.2%	0.7%	1.3%	1.1%	1.1%	-1.4%
Ore reserve variance:									
Variance in +4% Pb+Zn ore (blastholes-diluted model)	184,847	0.54	0.59	1.14	4.83	33,517	38,258	71,775	32,490
Percent variance +4% Pb+Zn ((bh-m)/m)*100	3.8%	17.1%	13.4%	15.0%	11.2%	21.5%	17.7%	19.3%	15.4%
Variance in +5% Pb+Zn ore (blastholes-diluted model)	394,767	0.46	0.52	0.98	3.60	35,175	43,352	78,527	35,205
Percent variance +5% Pb+Zn ((bh-m)/m)*100	8.9%	13.5%	11.3%	12.3%	8.0%	23.7%	21.3%	22.3%	17.6%

ACTUAL BLOCKED OUT IN PIT AND MOVED

period 1	1326000
period 2	2350000
period 3	2819000
period 4	2337000
total	8832000

EXTRA ORE ACCOUNTING

	tonnes ore	tonnes lead	tonnes zinc	kilograms silver
moved from pit less extra	8,493,613	283,529	402,625	NA
ramp zone	211,200	8,560	8,892	7,392
zone 1	127,187	4,324	7,771	4,833
oxide	639,324	20,312	32,037	26,246
total	9,471,324	316,725	451,325	NA
total extra ore	977,711	33,196	48,700	38,471
total moved from pit	8,832,000	296,413	419,288	NA

oxide feed details

						tnns pb	tnns Zn	grams Ag
	Sep-86	69,101	2.29	4.14	24 no screening	158241.29	286078.14	1658424
	Oct-86	44,996	3.10	4.75	42	139487.6	213731	1889832
	Nov-86	78,882	3.32	4.73	44	261888.24	373111.86	3470808
	Dec-86	174,779	3.47	5.48	44	606483.13	957788.92	7690276
	Jan-87	91,204	3.31	5.25	45	301885.24	478821	4104180
	Feb-87	43,508	3.32	5.39	45	144446.56	234508.12	1957860
	Mar-87	136,854	3.06	4.82	40	418773.24	659636.28	5474160
Total		639,324	3.18	5.01	41.05	2031205.3	3203675.32	26245540
2'nd Period		570,223				3.18	5.01	41.05
Mill Report		431,000						
Diff		139,223						

may 31 1988 sockpile status

	tonnes	pb	zn	ag	tnns pb	tnns Zn	grams Ag
low grade A	468372	2.00	2.63	27	936744	1231818.36	12646044
low grade B	205980	1.65	2.97	23	339867	611760.6	4737540
crusher	14885	3.22	4.47	47	47929.7	66535.95	699595
B	312621	4.12	5.52	70	1287998.52	1725667.92	21883470
D	110352	2.70	3.75	34	297950.4	413820	3751968
coarse ore	3155	3.60	4.99	52	11358	15743.45	164060
total less coarse ore	1112210	2.62	3.64	39.31	2910489.62	4049602.83	43718617