

CYPRUS ANVIL MINING CORPORATION

INTEROFFICE CORRESPONDENCE

To: Robin Tolbert

cc. Alain Chevalier.

From: Jim Keir

Date: April 16, 1985

Subject: COMPARISON OF PREDICTED ORE TYPES
 (Phase A - 6% cutoff)
 vs.
 ACTUAL ORE TYPE SAMPLES
 (Metallurgical test samples collected Zone III, phase NA, 3910 bench)

PREDICTED ORE TYPES							ACTUAL ORE TYPE SAMPLES						
ORE TYPE	Pb %	Zn %	Ag g/mt	Fe %	Cu %	Phase %	ORE TYPE	Pb %	Zn %	Ag g/mt	Fe %	Cu %	
2A	3.2	5.2	43.3	18.0	0.2	6.8	2A	1.3	2.8	23.0	4.7	0.1	
2BCD	3.4	5.0	41.6	18.0	0.2	17.5	2BD	2.5	3.7	47.0	10.9	0.1	
2EC	3.1	5.4	33.0	25.0	0.1	17.6	-	-	-	-	-	-	
2FE	3.7	5.4	41.5	31.0	0.2	46.3	2FE	5.6	8.2	59.0	33.4	0.1	
2H	4.3	5.5	61.7	31.0	0.2	3.7	2H	4.4	6.9	70.0	37.7	0.4	
2G	4.4	5.3	61.3	24.0	0.2	8.0	-	-	-	-	-	-	
OXIDE	2.9	4.7	33.0	-	-	-	OXIDE	3.6	4.5	64.0	20.3	0.2	

Jim Keir
Mine Geologist

TONNAGE & GRADE COMPARISON 1982

ORE REMOVED FROM PIT

	SDT (000's)	Pb %	Zn %	Comb. %	Ag g/mt
Model F3 (Zone 1 & 3)	719	2.7	4.7	7.4	25.2
Blasthole (Inside Model Area)	490	2.5	4.4	6.9	29.3
Blasthole (Outside Model Area - extraneous)	186	2.3	3.9	6.2	24.3
Total Blasthole	676	2.4	4.3	6.7	27.9

CRUSHER FEED

Blasthole (Pit & Stockpile)*	703	2.6	4.5	7.1	31.7
Oxidized Stockpile**	1037	2.8	4.6	7.4	35.6
Total Mill Feed 1982	1740	2.7	4.6	7.3	34.0
Metallurgical Balance (DPR)	1812	2.8	4.5	7.3	33.8
Metallurgical Balance (Calc)	1812	2.8	4.7	7.5	33.8

COMPARISONS

Variance - Removed from Pit (Blasthole [Inside Model Area] vs Model)	-32%	-7%	-6%	-7%	+16%
Variance - Crusher Feed (Blasthole* vs Met. Bal. D.P.R.)	-4%	-4%	+2%	-	+1%
Variance - Crusher Feed (Blasthole* vs Met. Bal. Calc)	-4%	-4%	-2%	-3%	+1%

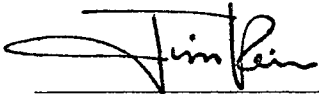
**Oxidized Stockpile tonnage taken from daily Met. Balances.

NOTES:

- 1) Ore production in "82" was terminated June 6.
- 2) Oxidized ore accounted for 57% of total Mill Feed in 1982.
- 3) Net change in year-end CFSP. II inventories (128,000 S.D.T.) accounted for 18% non-oxidized crusher feed.
- 4) 97,000 S.D.T. or 14% of the total ore removed from the pit went to the oxidized stockpile.
- 5) The poor comparison between "Blasthole vs Model" was mainly due to the last two benches in Zone 1 Phase 6 (3610 & 3590), where the "Model" overestimated the tonnage by 51%.

(2)

- 6) Extraneous ore (ore outside the "Model" area) accounted for 28% of the total blasthole production with the majority of this on 3910 bench Zone 3, N/A Phase.
- 7) The -4% variance between blasthole and Met. Bal. tonnages seems to best corrected by increasing the B.C.Y. of ore per truck from 27 to 28. This is substantiated by monthly comparisons of blasted vs removed.



J. Keir,
MINE GEOLOGIST.

JK/df

cc: D. Gregoire
J. Purkis
R. Tolbert
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Millfeed = 12,900 tpd
or Conc. = 1,650 tpd

1990 - MONTHLY PRODUCTION SCHEDULE

PLAN : LR # 6

FARO 105K/6

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	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Overall Summary: TOTAL													
Rock Waste - Tonnes	966,043	751,520	877,098	760,121	649,981	721,266	735,717	626,042	465,832	470,924	388,215	438,411	7,851,171
Calc Waste - Tonnes	558,540	505,396	536,472	508,088	523,721	973,272	977,193	861,471	589,957	742,070	948,972	983,297	8,708,449
Sulph Waste - Tonnes	87,142	233,194	152,194	217,405	137,498	106,743	285,616	215,500	305,870	347,955	423,920	345,955	2,858,992
Total Waste - Tonnes	1,611,726	1,490,110	1,565,764	1,485,614	1,311,201	1,801,281	1,998,527	1,703,012	1,361,659	1,560,948	1,761,106	1,767,663	19,418,611
Ore Mined : L. G. Ore Tonnes	17,994	38,619	20,697	28,880	64,588	111,186	28,086	60,448	82,763	111,388	6,338	145,762	718,748
%Pb+Zn	4.18	4.09	3.86	4.12	4.04	4.01	3.92	4.10	4.08	4.00	4.19	4.08	3.75
M. G. Ore Tonnes	44,569	121,656	147,426	122,557	113,683	124,763	104,445	122,198	136,056	130,870	50,126	145,732	1,364,082
%Pb+Zn	5.42	5.58	5.81	5.57	5.44	5.41	5.53	5.52	5.52	5.54	5.59	5.39	5.53
H. G. Ore Tonnes	359,171	248,467	336,026	387,621	276,861	297,414	290,093	345,068	392,355	322,632	459,236	317,207	4,032,152
%Pb+Zn	8.63	8.22	7.93	8.79	8.85	8.59	7.94	8.79	9.00	9.06	8.89	8.65	8.64
Total Ore (surface) - Tonnes	421,734	1,408,743	504,149	539,057	455,132	533,363	422,624	527,714	611,174	564,890	515,700	608,701	6,112,981
Total Mined - Tonnes	2,033,460	1,898,853	2,069,913	2,024,671	1,766,332	2,334,644	2,421,151	2,230,727	1,972,833	2,125,839	2,276,806	2,376,364	25,531,593
Strip Ratio	4.8	4.6	4.1	3.8	3.9	4.4	5.7	4.2	3.2	3.8	4.4	3.9	4.2

Pit Ore - Tonnes To Mill	333,860	236,720	190,532	348,260	273,806	308,947	190,129	349,430	306,398	276,013	308,536	288,271	3,410,903
Head Grade: % Pb+Zn	8.45	8.14	7.80	8.41	8.54	8.31	7.99	8.36	8.71	8.27	8.63	8.72	8.40
% Pb	3.41	3.19	3.35	3.10	3.80	3.03	2.90	3.30	3.35	3.18	3.31	3.18	3.27
% Zn	5.03	4.95	4.46	5.31	4.74	5.27	5.09	5.06	5.36	5.09	5.32	5.54	5.13
g/t Ag	40	37	43	32	56	30	25	35	35	35	34	30	36
g/t Au	0.18	0.13	0.14	0.14	0.09	0.11	0.11	0.09	0.08	0.12	0.07	0.07	0.11

Stockpile Ore - Tonnes To Mill	62,040	109,180	191,468	0	74,784	27,513	159,301	0	31,762	73,416	29,264	60,910	819,638
Head Grade: % Pb+Zn	9.61	9.49	9.39	0.00	8.24	8.24	8.46	0.00	5.03	8.34	5.78	7.79	8.59
% Pb	3.90	3.86	3.82	0.00	3.42	3.42	3.63	0.00	2.19	3.47	2.57	3.16	3.55
% Zn	5.71	5.64	5.58	0.00	4.82	4.82	4.83	0.00	2.84	4.87	3.20	4.63	5.03
g/t Ag	48	47	46	0	41	41	47	0	28	52	37	38	45
g/t Au	0.16	0.16	0.16	0.00	0.12	0.12	0.10	0.00	0.08	0.56	0.14	0.09	0.17

Underground Ore - Tonnes to Mill	4,000	15,300	17,900	38,740	51,310	50,540	50,470	50,470	48,840	50,470	49,200	50,720	477,960
Head Grade: % Pb+Zn	10.10	10.10	10.11	10.19	10.23	10.41	10.42	10.41	10.41	10.20	10.04	10.02	10.25
% Pb	4.30	4.30	4.14	4.20	4.18	4.18	4.18	4.18	4.18	3.95	3.80	3.73	4.07
% Zn	5.80	5.80	5.97	5.99	6.05	6.23	6.24	6.23	6.23	6.25	6.24	6.29	6.17
g/t Ag	58	58	56	55	55	55	60	60	60	60	57	53	57
g/t Au	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

Total Mill Feed - Tonnes	399,900	361,200	399,900	387,000	399,900	387,000	399,900	399,900	387,000	399,899	387,000	399,900	4,708,501
Head Grade: % Pb+Zn	8.65	8.63	8.67	8.59	8.70	8.58	8.49	8.62	8.62	8.53	8.60	8.75	8.62
% Pb	3.50	3.44	3.61	3.21	3.78	3.21	3.35	3.41	3.36	3.33	3.32	3.25	3.40
% Zn	5.15	5.19	5.06	5.38	4.92	5.37	5.13	5.20	5.26	5.20	5.28	5.50	5.22
g/t Ag	42	41	45	34	53	34	38	39	37	41	37	34	40
g/t Au	0.18	0.13	0.14	0.13	0.08	0.10	0.09	0.08	0.07	0.19	0.07	0.06	0.11

Surface Ore Stockpile : Tonnes	1,509,059	1,571,901	1,694,050	1,884,848	1,991,389	2,188,291	2,261,485	2,439,769	2,712,783	2,928,245	3,106,144	3,365,665	
Head Grade: % Pb+Zn	5.57	5.29	5.10	5.26	5.17	5.11	5.00	5.05	5.21	5.23	5.43	5.35	
% Pb	2.19	2.06	2.03	2.09	2.04	1.96	1.87	1.88	1.94	1.94	2.02	1.95	
% Zn	3.38	3.23	3.07	3.17	3.13	3.14	3.13	3.17	3.27	3.29	3.41	3.40	
g/t Ag	28	27	27	28	27	26	24	25	25	25	25	24	
g/t Au	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	0.11	0.10	0.10	0.10	

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Millfeed = 12,900 tpd
or Conc. = 1,650 tpd

1990 - MONTHLY PRODUCTION SCHEDULE

PLAN : LR # 6

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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Conc Surface Ore:	Pb DMTonnes	18,368	15,620	18,212	14,098	17,296	13,538	14,930	15,320	14,530	15,938	14,599	14,560	187,007
	% Pb Rec	78.96	77.07	77.47	78.83	77.64	77.23	73.35	79.55	75.02	78.46	76.61	76.56	77.51
	% Pb	60.46	60.45	60.85	60.35	60.69	60.05	59.83	59.92	59.89	57.47	59.50	60.14	60.01
	g/t Ag	467	466	502	410	567	403	446	409	399	475	398	371	439
	g/t Au	0	0	0	0	0	0	0	0	0	1	0	0	0
Conc U/B Ore:	Pb DMTonnes	230	879	984	2,166	2,853	2,810	2,806	2,806	2,716	2,630	2,452	2,474	25,807
	% Pb Rec	80.15	80.15	79.70	79.87	79.82	79.82	79.82	79.82	79.82	79.15	78.69	78.47	79.52
	% Pb	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
	g/t Ag	583	583	579	560	563	563	619	619	619	649	633	593	601
	g/t Au	0	0	0	0	0	0	0	0	0	0	0	0	0
Conc Pb Tot:	Pb DMTonnes	18,598	16,498	19,196	16,264	20,149	16,348	17,737	18,126	17,246	18,568	17,050	17,034	212,814
	% Pb Rec	80.36	80.24	80.92	78.97	80.87	78.97	79.19	79.59	79.41	80.64	79.05	78.89	79.82
	% Pb	60.46	60.43	60.80	60.30	60.60	60.04	59.86	59.93	59.91	57.83	59.57	60.12	60.01
	g/t Ag	468	473	506	430	566	431	473	441	433	500	432	404	459
	g/t Au	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.11
Conc Surface Ore:	Zn DMTonnes	32,177	28,268	30,213	29,455	25,931	27,977	27,119	27,856	27,253	27,376	27,372	29,942	340,940
	% Zn Rec	78.41	78.49	78.19	79.03	77.65	78.86	77.52	78.18	78.06	79.20	78.22	78.95	78.36
	% Zn	49.59	49.61	49.62	49.65	49.68	49.66	49.67	49.58	49.58	50.99	49.58	49.59	49.70
Conc U/B Ore:	Zn DMTonnes	375	1,434	1,742	3,781	5,070	5,175	5,177	5,167	5,001	5,206	5,078	5,291	48,496
	% Zn Rec	80.93	80.93	81.66	81.63	81.83	82.34	82.36	82.34	82.34	82.69	82.86	83.09	82.33
	% Zn	50.10	50.10	50.10	50.10	50.10	50.10	50.10	50.10	50.10	50.10	50.10	50.10	50.10
Conc Zn Tot:	Zn DMTonnes	32,552	29,701	31,955	33,236	31,001	33,152	32,297	33,024	32,254	32,582	32,450	35,233	389,436
	% Zn Rec	78.44	78.61	78.37	79.32	78.31	79.39	78.26	78.81	78.70	79.73	78.92	79.55	78.84
	% Zn	49.60	49.64	49.65	49.70	49.75	49.73	49.74	49.66	49.66	50.85	49.66	49.66	49.75
Conc Total :	DMTonnes	51,150	46,200	51,150	49,500	51,150	49,500	50,033	51,150	49,500	51,150	49,500	52,267	602,250