

002688

To

J. C. Devitt

Date

September 23, 1977

From

J. Mustard

Subject 1978 PLAN

The accompanying tables show tonnages and grades with varying cut-off limits for ore scheduled starting from 3790 Phase IV, planned October 16, 1977 until the end of 1978.

Planned total tons milled over this time is 4,392,000. To compensate the deficit of tonnage met with higher cut-off limits, ore currently scheduled in early 1979 is included to give figures covering the full period.

Grades for this period are then:

	<u>% Pb</u>	<u>% Zn</u>	<u>%(Pb + Zn)</u>
4% cut-off and current plan	3.05	5.53	8.58
4.5% cut-off	3.13	5.62	8.75
5.0% cut-off	3.18	5.69	8.87

For a 4.5% cut-off, a combined percentage increase of 0.17% is achieved and for a 5.0% cut-off - 0.29%.

Table 2 shows the deficits of ore accumulated over the current plan 4,392,000 tons. For a 4.5% limit, this is 112,000 tons (11 days) and for a 5.0% limit - 268,000 tons (27 days).

J. Mustard
Mine Geologist

JM/mm

Attach.

TABLE I

Planned production October 16, 1977 to 1978 end showing tonnages and grades with 4%, 4.5%, and 5% combined cut-off limits.

Bench	% Cut Off	IV			V			BENCH TOTAL		
		SDT (000's)	% Pb	% Zn	SDT (000's)	% Pb	% Zn	SDT (000's)	% Pb	% Zn
3930	4.0				11	6.4	9.6	11	6.4	9.6
	4.5				11	6.4	9.6	11	6.4	9.6
	5.0				11	6.4	9.6	11	6.4	9.6
3910	4.0				39	5.2	6.8	39	5.2	6.8
	4.5				39	5.2	6.8	39	5.2	6.8
	5.0				39	5.2	6.8	39	5.2	6.8
3890	4.0				69	2.91	5.10	69	2.91	5.10
	4.5				69	2.91	5.10	69	2.91	5.10
	5.0				58	3.12	5.50	69	3.12	5.50
3870	4.0				94	3.2	5.4	94	3.2	5.4
	4.5				94	3.2	5.4	94	3.2	5.4
	5.0				94	3.2	5.4	94	3.2	5.4
3850	4.0				60	4.0	5.0	60	4.0	5.0
	4.5				60	4.0	5.0	60	4.0	5.0
	5.0				60	4.0	5.0	60	4.0	5.0
3830	4.0				69	4.3	6.9	69	4.3	6.9
	4.5				69	4.3	6.9	69	4.3	6.9
	5.0				69	4.3	6.9	69	4.3	6.9
3810	4.0				118	2.54	4.85	118	2.54	4.58
	4.5				112	2.58	4.90	112	2.58	4.90
	5.0				104	2.66	5.02	104	2.66	5.02
3790	4.0	563	2.34	4.82	178	2.11	4.24	741	2.28	4.68
	4.5	541	2.38	4.91	148	2.23	4.56	689	2.34	4.83
	5.0	488	2.48	5.07	126	2.34	4.79	614	2.45	5.01
3770	4.0	361	3.16	6.20	209	2.88	5.97	570	3.05	6.11
	4.5	352	3.18	6.30	202	2.91	6.07	554	3.08	6.21
	5.0	345	3.19	6.37	196	2.97	6.16	541	3.11	6.29
3750	4.0	256	2.56	5.90	328	3.87	6.01	584	3.29	5.96
	4.5	256	2.56	5.90	322	3.92	6.06	584	3.29	5.96
	5.0	249	2.57	5.97	322	3.92	6.06	571	3.33	6.02
3730	4.0	373	3.01	5.48	544	3.81	6.62	917	3.48	6.15
	4.5	366	3.19	5.57	544	3.81	6.62	910	3.56	6.19
	5.0	360	3.21	5.60	544	3.81	6.62	904	3.57	6.21
3710	4.0	614	2.80	5.04	506	3.02	5.04	1120	2.89	5.04
	4.5	595	2.86	5.11	612	3.26	5.32	1207	3.06	5.21
	5.0	581	2.90	5.14	585	3.30	5.39	1166	3.10	5.26
3690	4.0									
	4.5									
	5.0				162	2.70	4.93	162	2.70	4.93
PHASE	4.0	2167	2.75	5.35	2225	3.35	5.71	4392	3.05	5.53
TOTAL	4.5	2110	2.81	5.43	2282	3.44	5.81	4392	3.13	5.62
	5.0	2023	2.86	5.52	2369	3.46	5.85	4392	3.18	5.69

TABLE 2

Tonnage deficits and grades for 4.0% and 5% cut-off limits.

	<u>Tons (000's)</u>	<u>Tons Deficit From Plan (000's)</u>	<u>% Pb</u>	<u>% Zn</u>	<u>%(Pb + Zn)</u>
4% Cut-Off	4,392	-	3.05	5.53	8.58
4.5% Cut-Off	4,280	112	3.12	5.64	8.76
5% Cut-Off	4,124	268	3.16	5.68	8.84