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To

D. Marr

Date

February 12, 1976

From

J. C. Devitt

Subject PIT PRODUCTION

To assess our current and future mining plans, a clear picture of our past production record is desirable. To this end, monthly total pit production quantities were recorded from past Mine Department Monthly Progress Reports. All volume corrections which were applied are included in these figures. The cumulative totals do not correlate with respective cumulative totals in the mine reports because of arithmetic errors discovered in some of the old reports. A tabulation, by month, with yearly and cumulative totals is attached. A graph based on this tabulation is also attached. Major "break points" are noted, such as the addition of major equipment to the production fleet. Total pit production is defined as all alluvium, waste rock, and ore removed from the pit. It does not include movement from stockpiles to the crusher.

By averaging production by months for production periods using the same mining equipment, the effect of the addition of major equipment to the fleet is shown as follows:

<u>Equipment</u>	<u>Material</u>	<u>Time Period</u>	<u>BCY/Mo.</u>	<u>Increase</u>
Scrapers	Alluvium	Oct. 67 - Mar. 68	111,370	
2-5 Yd. Shovels*	Rock, Ore, Alluvium	June 68 - April 69	345,566	234,196 BCY, 210%
4-5 Yd. Shovels	Rock, Ore, Alluvium	June 69 - Sept. 73	480,371	134,805 BCY, 39%
4-5 Yd. Shovels, 1-15 Yd. Shovel	Rock, Ore, Alluvium	Nov. 73 - Dec. 75**	529,618	49,247 BCY, 10%

* Some Scraper Production

** Exclude May and June 1974 for Strike

The overall increase in production from the addition of the Marion shovel is much lower than would be expected - a gain of only 49,000 BCY/mo. above the four small shovels working alone. Decreased usage of the small shovels, extremely restricted and sometimes muddy working conditions, one-way roads and poor digging conditions have evidently been responsible for a percentage of the minimal increase. With the completion of the extremely adverse waste mining conditions on Phase 3, mining conditions for the year ahead will be much improved. Phase 4 will have substantially wider working areas and rock floors. Phase 5 will be reasonably wide all the way down, as well as dry. Phase 3 conditions will be satisfactory once the 3870 is completed.

A major key to increased productivity is the placement of every shovel at a mining face, and to ensure that the schedule of six full shifts per day for 5 yd. shovels and three full shifts per day for the Marion shovel are strictly adhered to.

With better mining conditions ahead, production rates more in line with the capabilities of our existing equipment should be expected for the coming year. In fact, just to meet the 1976 plan requirements of 640,000 BCY/month, productivity must be increased 21%, or 110,000 BCY/month above the average for the last two years.



J. C. Devitt
Chief Mining Engineer

JCD/mm

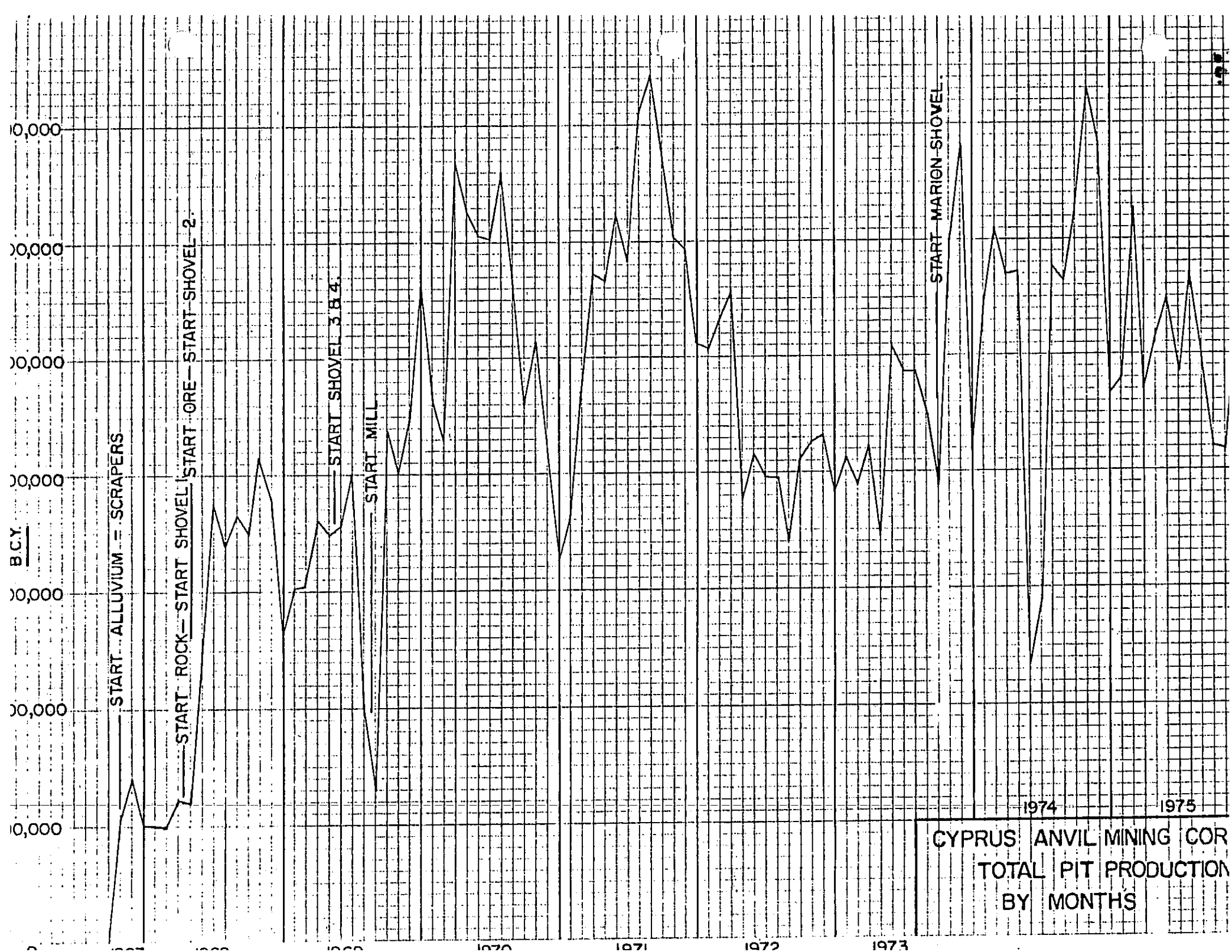
cc. A. Von Kursell
P. Taggart
M. Hampton
D. Bohach
D. Gregoire
D. Hanson

TOTAL MATERIAL MOVED FROM PIT
FROM MINE DEPARTMENT MONTHLY PROGRESS REPORTS

	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>
January		99,723	303,128	462,576	361,488	506,235	411,597	545,554	476,181
February		98,910	306,460	429,215	470,145	527,572	389,745	608,821	623,533
March		122,340	359,296	665,780	571,953	555,025	421,290	570,599	465,815
April		120,529 ²	346,192	625,513	563,976	376,578	346,768	572,693	514,193
May		266,031 ³	355,964 ⁴	605,988	624,552	413,104	508,163	232,866	543,287
June		375,109	400,180	602,740	581,368	397,479	482,686	288,710	483,834
July		340,196	201,376	658,461	709,381	395,425	482,787	575,779	568,304
August		365,005	130,620 ⁵	572,923	741,702	340,974	446,077	562,540	495,251
September	1,740 ¹	348,198	437,986	459,258	674,151	411,741	387,862	621,121	417,835
October	104,925	417,704	401,430	511,503	603,861	426,388	593,167 ⁶	728,523	415,509
November	140,242	377,888	448,587	424,379	592,747	432,181	682,536	683,591	528,332
December	<u>102,084</u>	<u>262,052</u>	<u>564,725</u>	<u>324,540</u>	<u>511,069</u>	<u>385,421</u>	<u>416,908</u>	<u>465,217</u>	<u>144,875</u>
Total	348,991	3,193,685	4,255,944	6,342,876	7,006,393	5,168,123	5,569,586	6,456,014	5,676,949
Cumulative	348,991	3,542,676	7,798,620	14,141,496	21,147,889	26,316,012	31,885,598	38,341,612	44,018,561

- 1) Start Alluvium - Scrapers
2) Start Rock - Start Shovel 1
3) Start Ore - Start Shovel 2

- 4) Start Shovels 3 and 4
5) Start Mill
6) Start Marion Shovel



CYPRUS ANVIL MINING COR
 TOTAL PIT PRODUCTION
 BY MONTHS