

MEMORANDUM

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TO: W. Krats FROM: P. M. Pettigrew
 SUBJECT: 1974 DIAMOND DRILLING PROGRAMME DATE: September 6, 1973

The writer would suggest that the following number of holes and total footage be drilled next year:

	<u>Holes</u>	<u>Total Depth</u>	
1. To define west wall of pit (at the same time obtaining better definition of the diorite dyke)	7 5	2060'	1635
2. To define east wall of pit	1 1	550'	523
3. To complete 300' centre holes	3 4	2000'	2691
4. 150' centre holes to aid in grade control	3 3	850'	1160
5. To define sub-zone D	6 6	1670'	2108
	20	7130'	

In future years, 100 $(\sqrt{2}/2)$ ' spaced holes will have to be drilled in the vicinity of the diorite dyke and along the east and west walls in advance of 5-year plans. In 1975, hole #66-33 will probably have to be deepened (depending on mining plans at that time).

Attached is a sketch of the suggested programme. To it could be added around 450' of drilling for possible contingency holes in Zone 2. These will be dependent on the reassessment of this zone which should be completed well before Jan. 1, 1974. At the same time, the equivalent of 300' of diamond drilling should be set aside specifically to obtain samples for metallurgical testing.

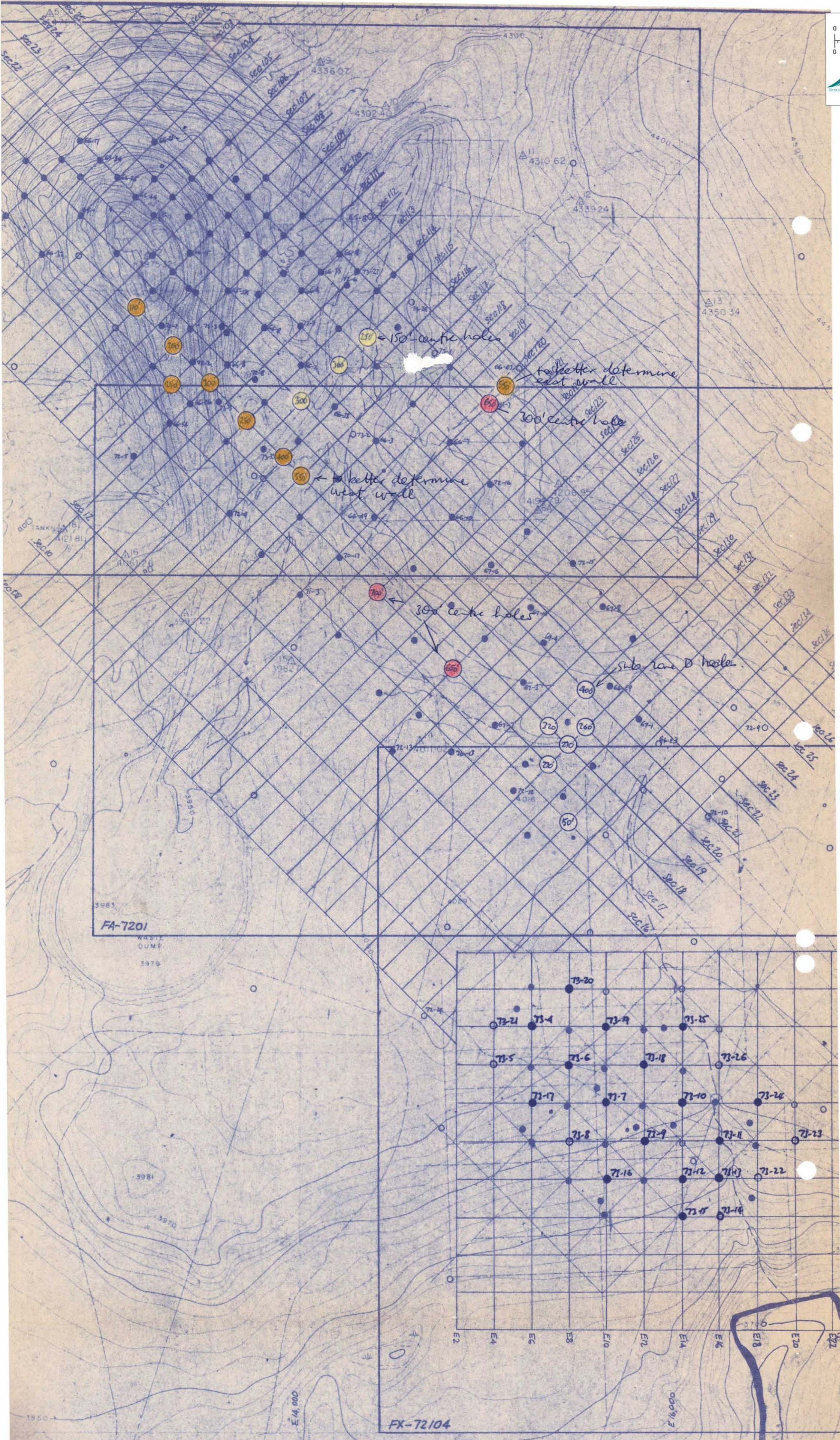
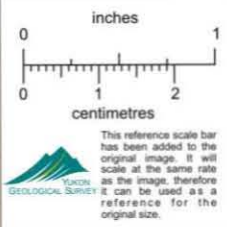
For all of the above a budget of \$86,680 @ \$11.00/ft. plus around \$5,000 for two additional core shacks and \$1,000 for modification to the core splitting machine and fitting out an office for storing reject samples, equipment and for splitting and examining core.

This amounts to a total budget of \$92,680.

P.M. Pettigrew

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Geologist

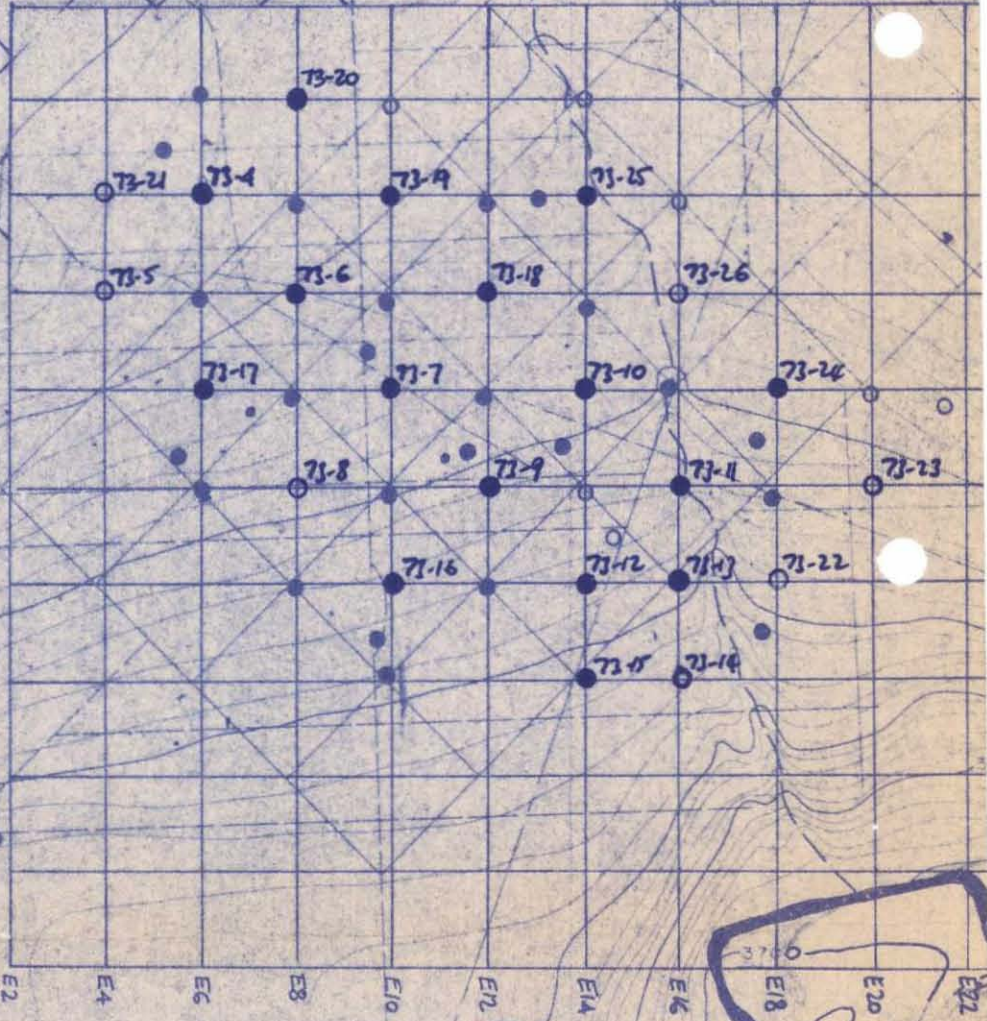
Attach.



FA-7201

WASTE
DUMP

FX-72104



ARVIL MINING CORPORATION LIMITED

MEMORANDUM

TO: W. Krats FROM: P. M. Pettigrew
 SUBJECT: DDH COMPOSITES DATE: August 21, 1973

Below is a summary of assay results from 22 composites made up from split core in the ore zone. Some of this data (72-2, 6, 7, 8) was used in a recent report on the reliability of projected ore grades (August 8, 1973; p. 4; fig. 3).

DDH COMPOSITES - 1972

<u>Sample No.</u>	<u>DDH</u>	<u>Interval</u>	<u>Feet</u>	<u>Fe % Insol.</u>	<u>Fe % Sol.</u>	<u>Ba %</u>
1	72-1	75' - 107'	32	4.6	12.8	< 0.5
2		107' - 133'	26	7.1	7.0	< 0.5
3	72-2	222.5' - 251.6'	29.1	16.1	17.2	< 0.5
4		251.6' - 276.3'	24.7	3.2	13.3	< 0.5
5	72-3	17' - 57'	40	21.0	11.3	3.0
6		57' - 97'	40	24.7	7.3	5.9
7		97' - 137'	40	28.7	5.0	4.5
8		137' - 177'	40	25.1	12.1	< 0.5
9		177' - 217'	40	32.7	3.1	< 0.5
10		217' - 237'	20	20.2	10.1	< 0.5
11	72-6	170' - 210'	40	23.6	2.8	< 0.5
12		210' - 249'	39	20.0	2.3	< 0.5
13		249' - 274'	25	15.5	3.0	< 0.5
14	72-7	95' - 135'	40	23.1	6.5	13.0
15		135' - 165'	30	17.8	7.8	> 20.0
16		165' - 190'	25	18.0	4.9	> 20.0
17		335' - 370'	35	30.7	8.6	< 0.5
18		370' - 410'	40	29.6	3.3	< 0.5
19		410' - 430'	20	7.0	4.4	< 0.5
20	72-8	185' - 225'	40	21.7	9.2	1.0
21		225' - 265'	40	30.2	4.5	< 0.5
22		265' - 305'	40	35.1	4.0	< 0.5

Note: Fe_{insol.} % and Fe_{sol.} % are meant to roughly approximate % pyrite and pyrrhotite respectively.

It is intended that further composite samples be made up from 1973 DDH material especially samples from Zone 2.

P.M. Pettigrew

P. M. Pettigrew
Geologist

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