010



ELECTRO-MAGNETIC SURVEY

Cynthia Township, Ontario.

LOCATION

This survey was carried out in Cynthia Township, Timagemi area of Ontario. A part of the north-west corner of surveyed claim No. 61491 as shown on the attached map was covered by this survey. Readings were taken over an area 200' wide, west to east and along a length of 600' north to south.

INSTRUMENT USED

A Ronka EM-15 Electromagnetic Detector manufactured by Geonics Limited of Toronto was used to conduct the survey. Operating frequency 16KHz: Readout: Meter indicates negative or positive secondary field, thus identifying Conductors or Magnetic targets. The meter itself has 20 divisions, 10 in the Negative and 10 in the Positive. The instrument was operated by the writer of this report and an assistant, Don Hardie did the lines and measuring.

PURPOSE OF THE SURVEY

To seek out electrically conductive areas which may indicate sulphide minerals. The anomalous sections to be targets for diamond drilling. The instrument was zeroed at post No. 2 of claim 61491 at 8.00 A.M. on November 10th. 1975. Lines were 50° apart and readings were taken at intervals of 15°.

RESULTS OF SURVEY

As indicated on the attached electro-magnetic survey map, four conductive sections marked A, B, C and D were noted. Where these anomalies have been uncovered and in some instances diamond drilled and blasted one can see good grade copper mineralization in the form of chalcopyrite.

These anomalies will have to be probed by diamond drilling, possibly in January, 1976 provided this area remains accessible.

Attached hereto are two copies of my electro-magnetic survey map

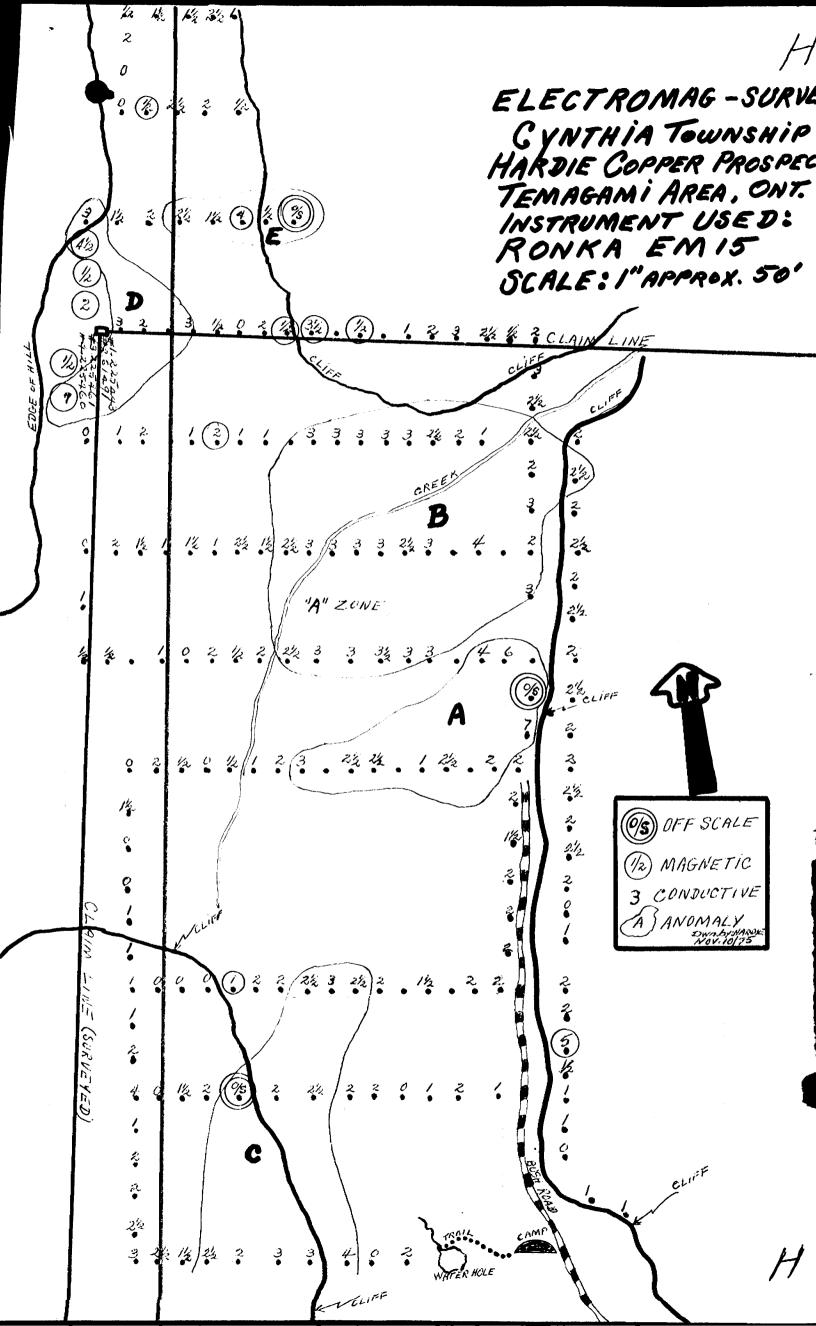
Geological Branch ODM

JAN 30 1976

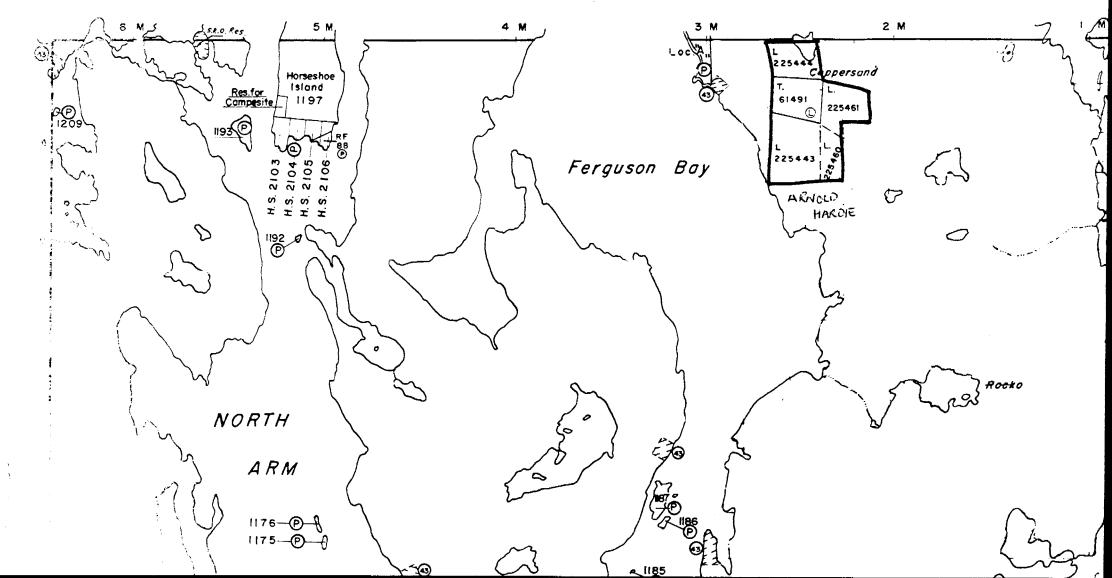
RECEIVED

Arnold arthur Hardie

December 30th. 1975.



Aston Twp.





Toronto 6, Ontario, January 30th. 1976.

W. O. Mackasey - Geologist, Room 2412, Whitney Block, Queen's Park, Toronto, Ontario.

Dear Mr. Mackasey:

Re: M.E.A.P. Contract CG-95

Enclosed are duplicate copies of "A" Questionaires land 2, "B" Financial report, "C" Report of Work Completed, "D" Claims Map Cynthia Township, "E" Hardie Copper Prospect Map, "F" Locational Map Northern Timagami, "G" Report of Electro-Magnetic Survey, "H" Electro-Magnetic Survey Map, "I" Sampling Locations Map, "J" Gunnex Geological Map.

Exploration activities undertaken were as follows:

Exploration activities undertaken were as follows:

May 4 - 17 Removing trees and brush from "A" zone.

May 19-21 Prospecting, drilling and blasting on "C" zone.

May 22-30 Breaking up overburden on zone "A".

Sept13-15 Prospecting claim group using a Ronka EM 15.

Oct 20-Nov 14 Stripping contract completed in this period.

Electro Magnetic survey over a part of the "A" zone as well as drilling and blasting of pits and trenches.

Nov 17 - 23 Drilling and blasting on the "A" zone and

Results obtained during this past sesson lead me to believe, that we have several thousand tons of high grade copper ore. Therefore, I am presently trying to secure a contract for the purchase of concentrates from this property. I believe the purchase of a small pilot plant of 25 tons per day would be justified if I am able to ne otiate a contract for the purchase of our product.

Enricher evaloration work will be carried out in the

Further exploration work will be carried out in the

"B" & "C" areas during the 1976 field season.

Trusting that you will find the enclosed material satisfactory, I am,

Yours very truly,

Cemald Gardie,

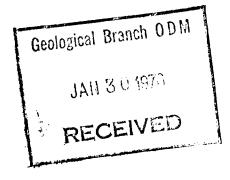
Arnold ... Nordie,

110 Lamson ... venue,

Toronto 6, Ontario.

Encls. (10)

AAH: ch





Toronto, Ont., Dec.30/75
Report of Mark Completed - Re. M.H. Contract C.G.95.

During this part season a bush road was cleared to the property at shown on the attached map of Borthers Timegami area, a distance of about two wiles. The general peole y in the area of the showings are of coorse grained disbase. In some creat the disbase is underlein by excillite and conglowerste. At the lower contact of the disbase, quertz-carbonate veint were noted within the disbase and at times within the ar illite. In area 200'1200' was stripped and designated "A" zone, another section south of the camp 30' X 100' was stripped and shown as "B" zone, both of which are shown on my attached maps. Stripping, drilling and blasting have been carried out on these three zones A, B and C with the major part of the work carried out within the "A" zone. To date our work in "B" has not uncovered any mineralization. However, the electro-magnetic survey may indicate that a mineralized section may be located to the west of this area. Trenches drilled and blasted, stripping and diamond drilling show positively that a large flat lying carbonate vein, covering an extensive area is underlying the "A" zone. Within this section I estimate that we have probable 20,000 tons which might grade as much as 3% capper plus low values in silver and gold. Trenches drilled and blasted to depths of 14'indicate this to be possible. From my observations this last summer I feel the only way to put this probable ore into the positive class is by wholly removing it, since in the trenches you look at section 5' X 5' and it looks as the it may run 10 to 15% copper whereas the next same size section may look like it would only run 2%. So some sections are quite erratic making it difficult to determine the overall

Sampling

g	Results	of Sampling		
Sample	No. Type L	ength or Depth	% Cu.	Ozs.P. Ton Ag.
1.	chip	100	1.42	
2.	drill cor	e 7.91	1.58	
3.	drill cor	e, 8.4 1	4.26	1.20
4.	bulk	201	7.95	2.1
5.	chip	3	2.32	
6.	crab		7.46	2.34
7.	chip	31	5.64	
8.	chip	4 1	1.02	
9.	chip	31	19.9	
10.	grab			26.38
11.	chip	21	2.80	. •
12.	bulk	30*	4.73	1.20
		-		and believed to

Bulk sample No. 12 above weighing 300 pounds and believed to be representative was tested at the Bureau of Mines in Ottawa and final flotation tests show that this ore is very fast floating and that at relatively coarse grinds high concentrate grades and recoveries are easily obtainable. The sampling and electro-magnetic survey was carried out at a cost of \$665.00. Map showing location of sampling is attached hereto as well as a separate map and report covering the electro-magnetic survey.

Page 2.

Technical Report Stripping

The purpose for which the area was stripped is to prepare the zone for pitting and trenching and possibly open pit mining. In the "A" zone shown on the attached map an area 200' X 200' was stripped of trees and then a D-2 Allis Chalmers dozer was used to partially remove the overburden. Due to difficult nature of the overburdenthe bulk of it had to be broken down with an Atlas Copco drill-breaker. This work was carried in the month of May after which a contract for removal of the overburden was given to K & E Trenching of Mount Albert, Ont. at a cost of \$6,000.00. This contract was started October 27, 1975 and completed November 14, 1975. In addition to the above a section 100° X 30° was stripped in the "B" zone and is shown on the attached Gunnex Ltd. map.

Technical Report Overburden and Trenches
These trenches were drilled out and blusted in order to try and determine the probable ore reserves and to get some idea of what the overall possible grade might be. Approximately 9000 yards of material were removed from the upper parts of this zone and nearly all had to be loosened with the drill The upper parts of the ore zone are fractured -breaker. heavily and highly oxidized making drilling extremely difficult until the unoxidized ores are reached. Approximately 1000 tons of the hard primary ores were removed. As may be seen from the attached "Hardie Copper Prospect Map" in excess of 200' of trenching was carried out and down to depths of 15'. In all of this work good grade copper ore was in evidence. The drill-breaker work was done in the month of May and the bulk of the trenching was completed during the period November 7 to November 23, 1975. The work was done by Rudy Bereziuk of Toronto, Ontario, Donald Hardie and myself. Drilling and blasing in the "B" and "C" zones was done in the latter part of the month of May 1975. This work revealed interesting chalcopyrite mineralization but more work will be required to learn if it does have economic possibilities.

From the encouraging results so far obtained I am planning an intensive program for the 1976 field season. All of the above is respectfully submitted for your consideration.

Arnold Arthur Hardie Esenuary 13th. 1976.

Attach:

- 1. Claims Map Cynthia Township
- 2. Hardie Copper Prospect Map
- 3. Location Map Northern Timagami
- 4. Electro-Magnetic Survey Map
- 5. Report Re Electro Magnetic Survey
- 6. Gunnex Ltd. Geological & Topographical kap 7. Results of Sampling wap.

CLAIMS MAP Ferguson 1183 (D) Kokoko LOK Devil Id. LAKE Mailoch L. TIMAGAMI 1158 0 1155

1-STRIPPED AREA

BASELL

LOCATION OF SAMPLING HARDIE COPPER PROSPECT CYNTHIA TOWNSHIP, ONT.

OUER BURDENED



CATE !

FLAT LYING QUARTE CARBONATE VEIN

CLAIM 7.61491

LEGEND

AREA STRIPPED

DRILL CORE SAMPLE

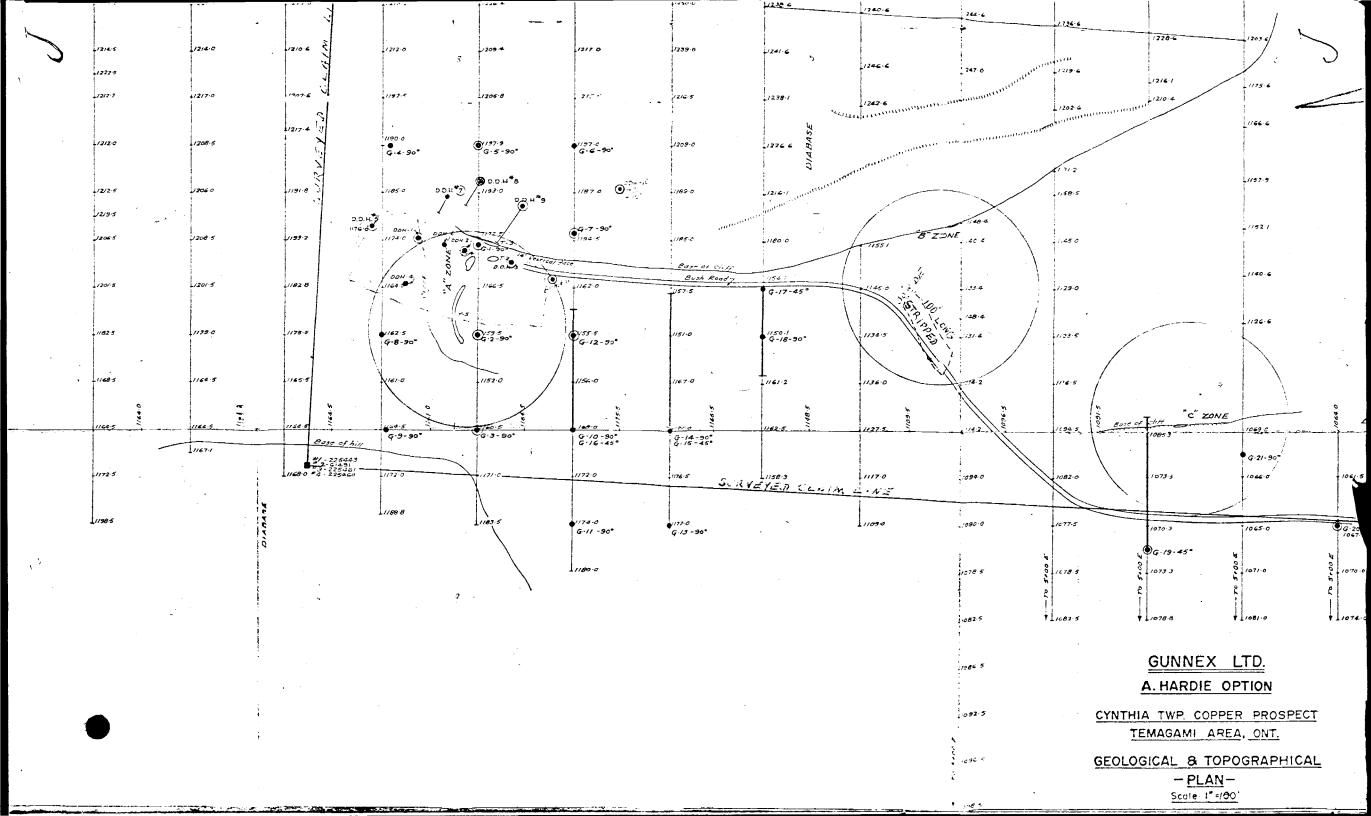
X SARAFLE LOCATION

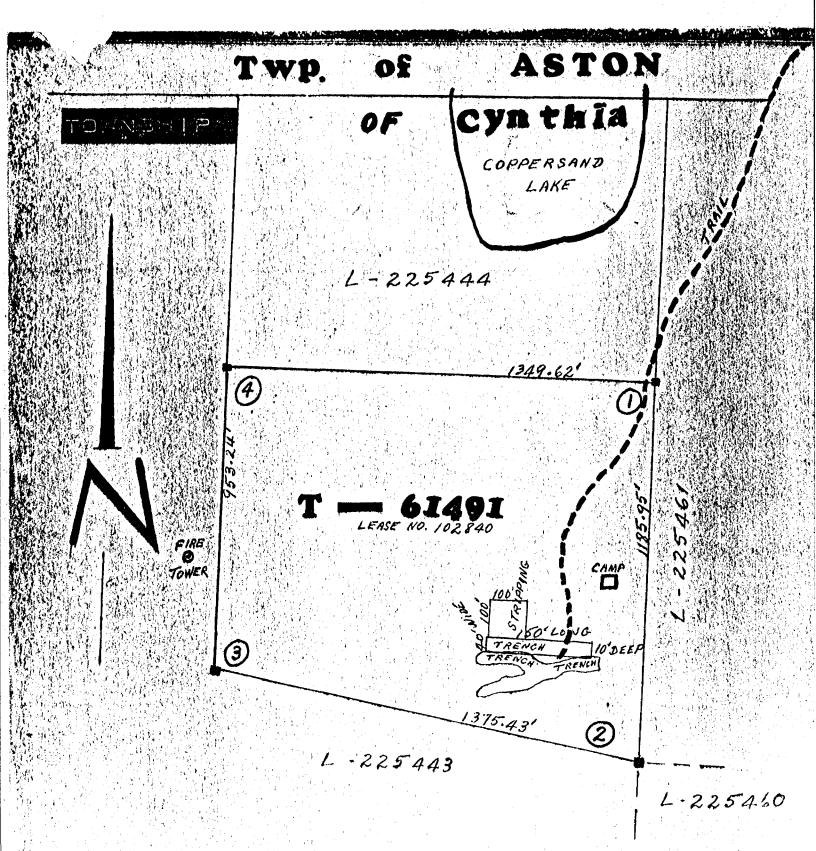
SCALE:

1" = APPROX. 50'

DAN by Amoric

THE APPROX. 50'





SCALE: | INCH = 300' APEROX.

