



LOCATION

This block of 57 claims is located in Kenogaming Township in the Sudbury Mining District.

TOPOGRAPHY

The topography of the area surveyed is characterized by low relief. Swamp and glacial till cover much of the underlying rock formations.

METHOD

An East-West base line was cut across the claims with stations being established every four hundred feet. Cross lines were run from each of these stations. Magnetic observations were made at intervals of one hundred feet along these lines. In addition to these traverses more detailed work was done in areas where high readings were obtained. Approximately ten percent of the area covered was done in detail with lines one hundred feet apart and readings every fifty feet. The instruments used were Schmidts, Askania Type, Magnetometers. Two instruments were used, one in the field and the other in camp.

INTERPRETATION OF OBSERVATIONS

Prior to this survey, several occurrences of nickel and copper were found in ultra-basic rocks. Although these mineralized zones are only slightly magnetic because

of the lack of any pyrrhotite and only a trace of magnetic, the basic rocks were found to be more magnetic than the surrounding areas. A number of profiles were run across known outcrops and it was found that the basic intrusives registered 1000 gammas or more, the other rock types being considerably less. It was hoped at the time that anomalous areas within the 1000 plus areas might prove to be nickel copper ore zones. Sixteen diamond drill holes were put through anomalies. Nickel and copper values were obtained in each of the holes drilled and in every instance, the rock type proved to be basic material varying from quartz-diorite to amphibolite or gabbro.

CONCLUSION

This survey will be of considerable help in connection with future exploration of the property as it has localized the areas to be tested. It appears that this survey has done almost a perfect job of outlining the basic rocks in which nickel copper occurrences have been found.

PERTINENT INFORMATION RE THIS SURVEY

On the maps accompanying this report only readings of more than 1000 gammas have been shown.

The scale constant of the instrument used in the field was 20.5.

The survey has not been tied in with any Ontario Department of Mines Base Station and it is the first geophysical work done in that area.

53½ miles of line were cut and chained and 3712 stations established and read with an Askania Type Magnetometer.

The work was done under my supervision. The party consisted of:

G. W. Carr	Instrument Operator
Omer Collin	Technical Assistant
R. Roberts	} Line Cutters, Chain and Picket Men
N. Elieff	
Simon Collin	
Tan Mantha	
Roger Beauchamp	

The work was started in November 1951 and finished in April, 1952. The man days follow:

E. F. Creelman	30 days	} 1416 DAYS. Technical	944 4 ----- 3776
G. W. Carr	182 "		
Omer Collin	142 "		
R. Roberts	61 "	} 2360 DAYS. Lines	57 3776 3424 ----- 356 342
N. Elieff	182 "		
Simon Collin	124 "		
Tan Mantha	108 "		
Roger Beauchamp	115 "		
<u>944</u>			
Total. 3776 DAYS.			

Assessment work credit. $\frac{3776}{57} = 66 \text{ DAYS.}$

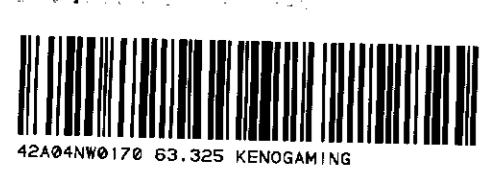
" " " ASKED FOR 40 DAYS.

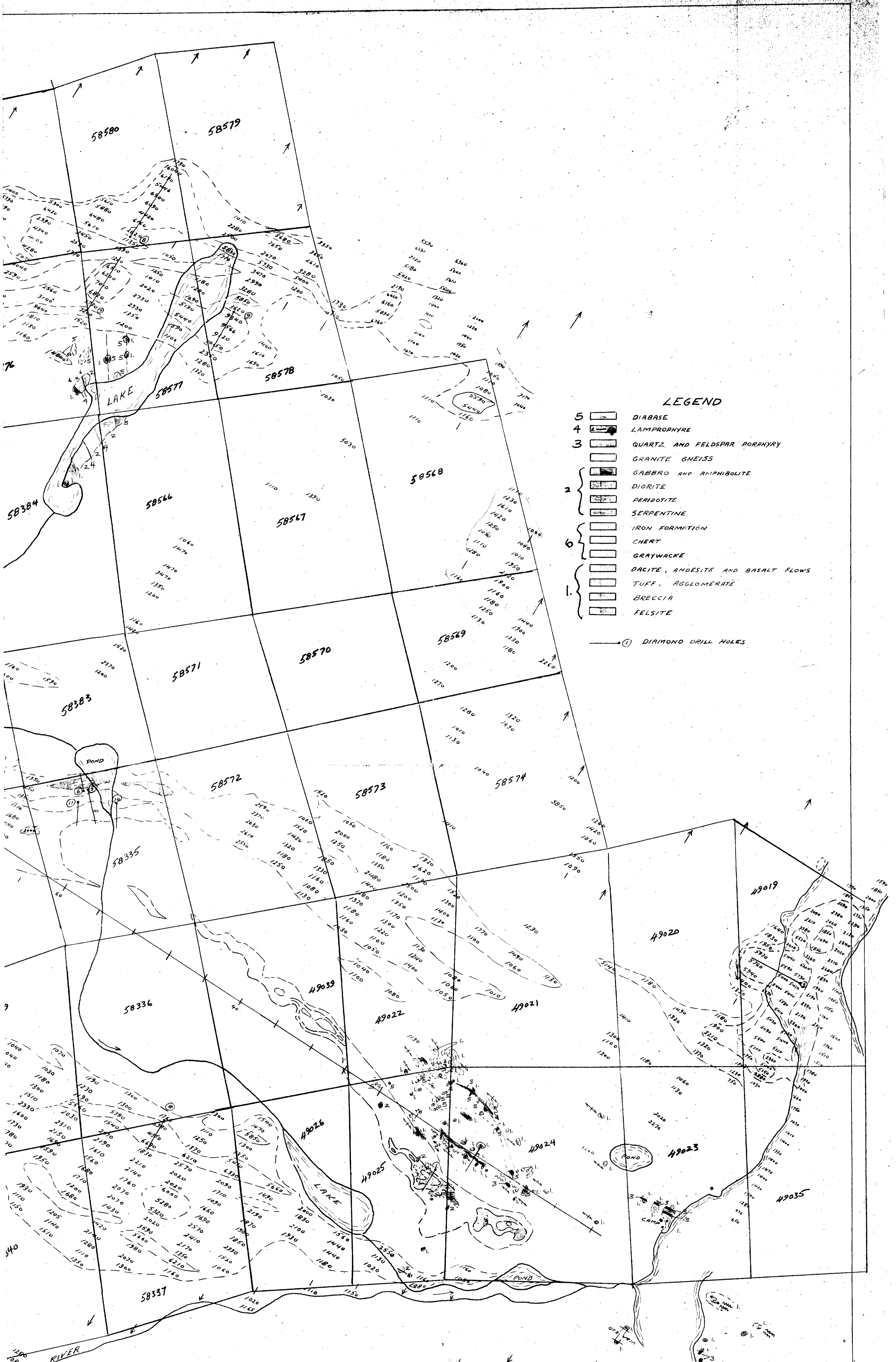
The 57 claims covered in this report are
as follows:

S. 49019	S. 58380
S. 49020	S. 58381
S. 49021	S. 58382
S. 49022	S. 58383
S. 49023	S. 58384
S. 49024	S. 58385
S. 49025	S. 58386
S. 49026	S. 58387
S. 49035	S. 58388
S. 49039	S. 58389
S. 58327	S. 58566
S. 58328	S. 58567
S. 58329	S. 58568
S. 58330	S. 58569
S. 58332	S. 58570
S. 58335	S. 58571
S. 58336	S. 58572
S. 58337	S. 58573
S. 58338	S. 58574
S. 58339	S. 58575
S. 58340	S. 58576
S. 58341	S. 58577
S. 58342	S. 58578
S. 58368	S. 58579
S. 58370	S. 58580
S. 58376	S. 58581
S. 58377	S. 58582
S. 58378	S. 60463
S. 58379	

These claims are unsurveyed but are properly staked and tagged. The base line and cross lines are well cut out and chainage pickets established at one hundred foot intervals along each line.

E. F. Creelman





- LEGEND**
- 5 DIABASE
 - 4 LAMPROPHYRE
 - 3 QUARTZ AND FELDSPAR PORPHYRY
 - GRANITE GNEISS
 - GABBRO AND AMPHIBOLITE
 - 2 DIORITE
 - PERIDOTITE
 - SERPENTINE
 - IRON FORMATION
 - 6 CHERT
 - GRAYWACKE
 - DACITE, ANDESITE AND BASALT FLOWS
 - 1 TUFF, AGGLOMERATE
 - BRECCIA
 - FELSITE
- ① DIAMOND DRILL HOLES

DUNVEGAN MINES LIMITED
Scale 400' = 1"

MAGNETIC SURVEY
MAGNETOMETER



READINGS IN GAMMAS

J. G. Buchanan 2/1/52