



42A04NW0042 63.129 SEWELL

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MAGNETOMETER SURVEY OF A GROUP OF CLAIMS IN SEWELL TOWNSHIP, ONTARIO

A vertical component magnetometer survey was made of a group of twenty-eight (28) unsurveyed claims in the south east part of Sewell Township, Ontario. These claims are numbered S 36914-19 (incl.) S 36939-41 (incl.) S 38613-22 (incl.) and S 38688-96 (incl.).

FIELD WORK

The field work was done in the period 16th August - 5th October 1946. Considering the size of the property too much time was expended on this job. There was, however, considerable unavoidable delay caused by very poor plane service and magnetic storms.

MAGNETIC FEATURES

An examination of the accompanying isogamic contour map shows three magnetically differentiated sections.

- (1) The section coloured in red is underlain by a material of low magnetic susceptibility and relief.
- (2) The section coloured in green is underlain by a material of rather high susceptibility and relief.
- (3) The section coloured in yellow is underlain by a material of somewhat higher susceptibility than (1) above but below that of (2).

CONCLUSIONS

- (1) The rock underlying the red section is thought to be the main granite mass with two narrow tongues running off to the south and south west.
- (2) The section in green is thought to be underlain by greenstones.
- (3) The section coloured in yellow is thought to be underlain by a rather wide contact phase of the granite and greenstone in which there is a percentage of magnetic material contributed by unassimilated greenstone.

In general the purpose of the magnetic survey was to delineate better the granite-greenstone contact shown on the map by E.W. Todd (Ont. Dept. of Mines Reports Vol. XXXIII Part 6, 1924). This was attained with a reasonable degree of exactitude.

There is about most large granitic masses a metamorphic aureole. It is felt that although the magnetometer did not indicate its presence, such a zone lies along the greenstone-granite contact on this property. Hence the contacts shown on the isogamic map are not to be considered as lines of sharp demarcation but rather as indicating the places where a predominantly greenstone rock type changes to a predominantly granitic type. The exact width of this transition zone is not known but it is thought to rather narrow apart from the one section marked in yellow.

Respectfully submitted,



J. W. BRITTON

Toronto, Ontario.  
12th May 1947  
JWB:N

SUMMARY OF GEOPHYSICAL DATA SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS  
OF THE ONTARIO DEPARTMENT OF MINES

(a) Field Work (Aug. 16th - Oct. 5th 1946)

(1) Line cutting - Aug. 16th - Sept. 17th 1946

(2) Magnetic work - Aug. 17th - Oct. 1st 1946

Note: There was considerable delay due to poor plane service and magnetic storms.

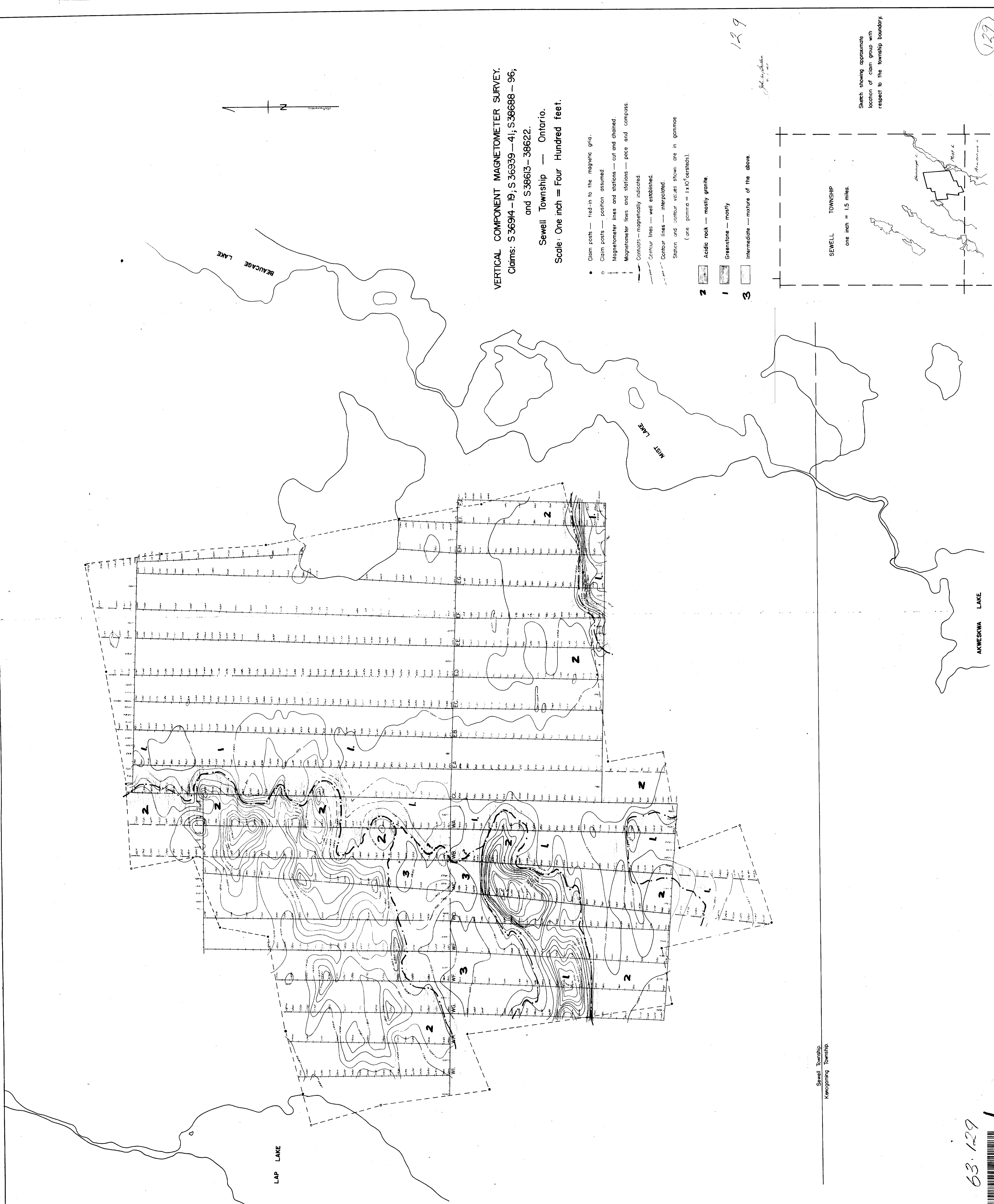
(b) L. Martin	- Malartic, Que.	- line cutting contractor
G. Roy	- Rouyn, Que.	- line cutter
L. St. Jarre	- " "	- " "
L. Thomas	- " "	- " "
W.D. Black	- Toronto, Ont.	- magnetometer helper
M.W. Bremner	- " "	- " operator
J.W. Britton	- " "	- geophysicist

(c) Magnetic Stations 1140

(d) Miles of line 27 @ \$39/mile

(e) Watts vertical component magnetometer 27.4~~6~~/div.

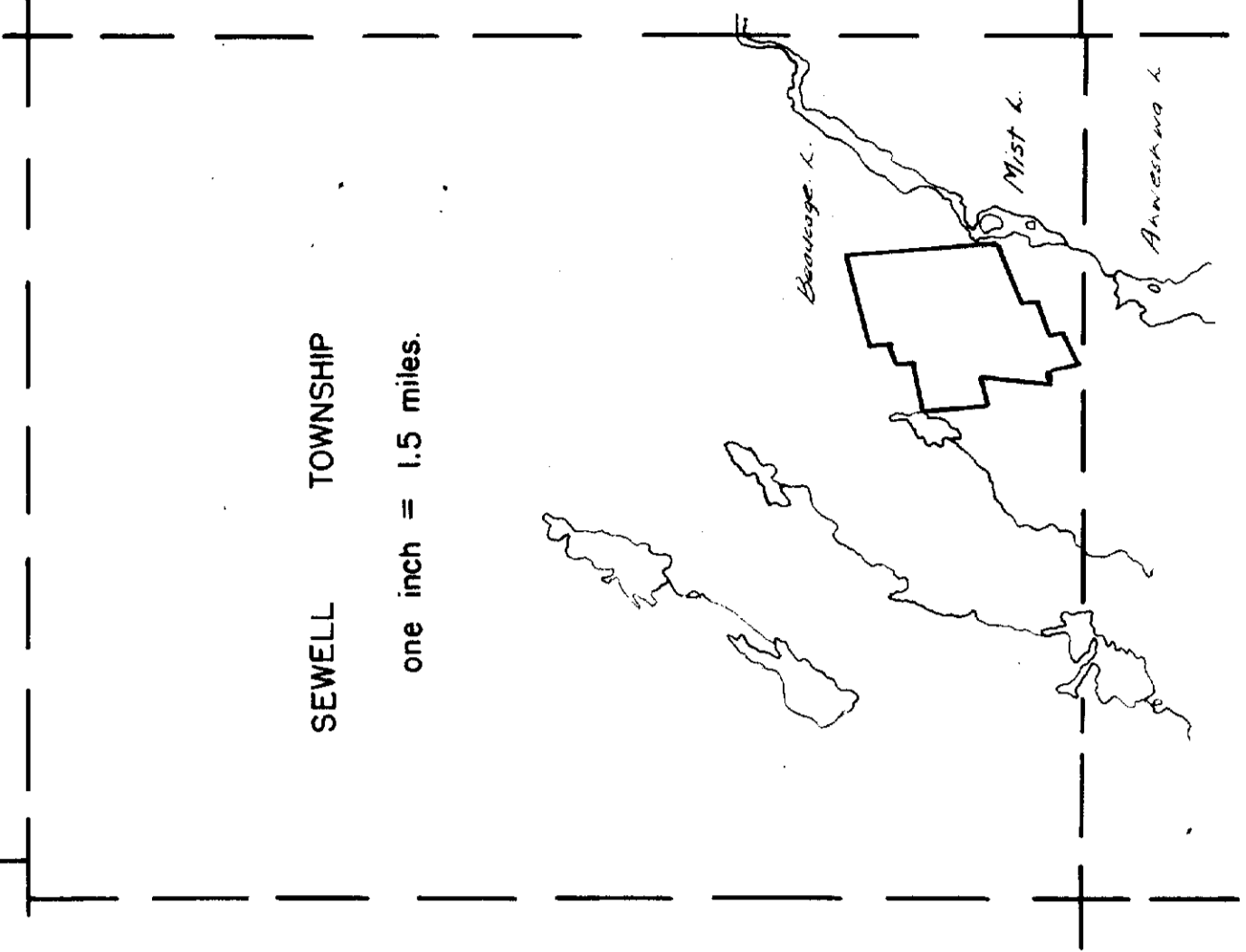
Toronto, Ontario,  
12th May 1947  
JWB:N



**VERTICAL COMPONENT MAGNETOMETER SURVEY.**  
Claims: S 36914-19, S 36939-41, S 38688-96,  
and S 38613-38622.

Sewell Township — Ontario.  
Scale: One inch = Four Hundred feet.

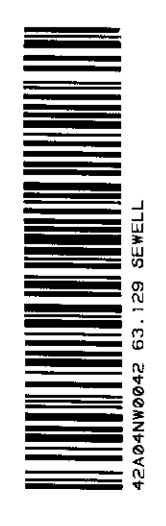
- Claim posts — tied-in to the magnetic grid.
- Claim posts — position assumed.
- - - Magnetometer lines and stations — cut and chained.
- - - Magnetometer lines and stations — paces and compass.
- - - Contacts — magnetically indicated.
- - - Contour lines — well established.
- - - Contour lines — interpolated.
- - - Stations and contour values shown are in gammae (one gammae = 1 x 10<sup>6</sup> gaerstedts).
- 2 Acidic rock — mostly granite.
- 1 Greenstone — mostly
- 3 Intermediate — mixture of the above.



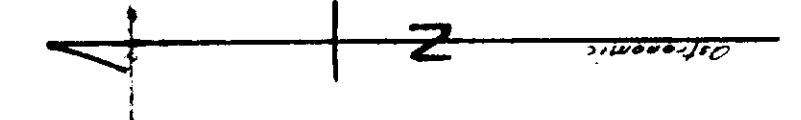
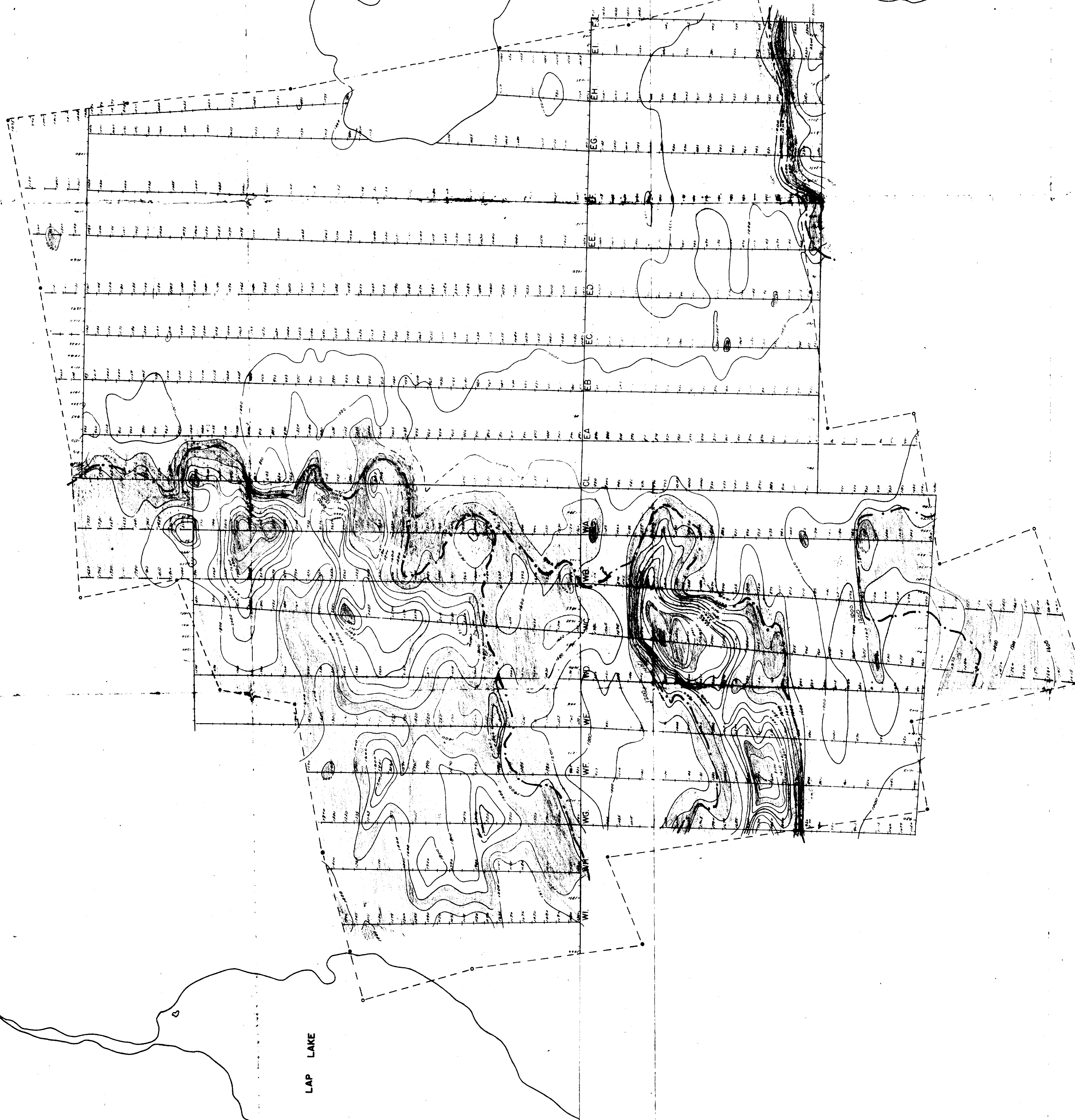
Sketch showing approximate location of claim group with respect to the township boundary.

Sewell Township,  
Kerogaming Township.

63.129



*John G. [unclear]*



**VERTICAL COMPONENT MAGNETOMETER SURVEY.**

Claims: S 36914 - 19; S 36939 - 41; S 36688 - 96;  
and S 38613 - 38622.

Sewell Township — Ontario.

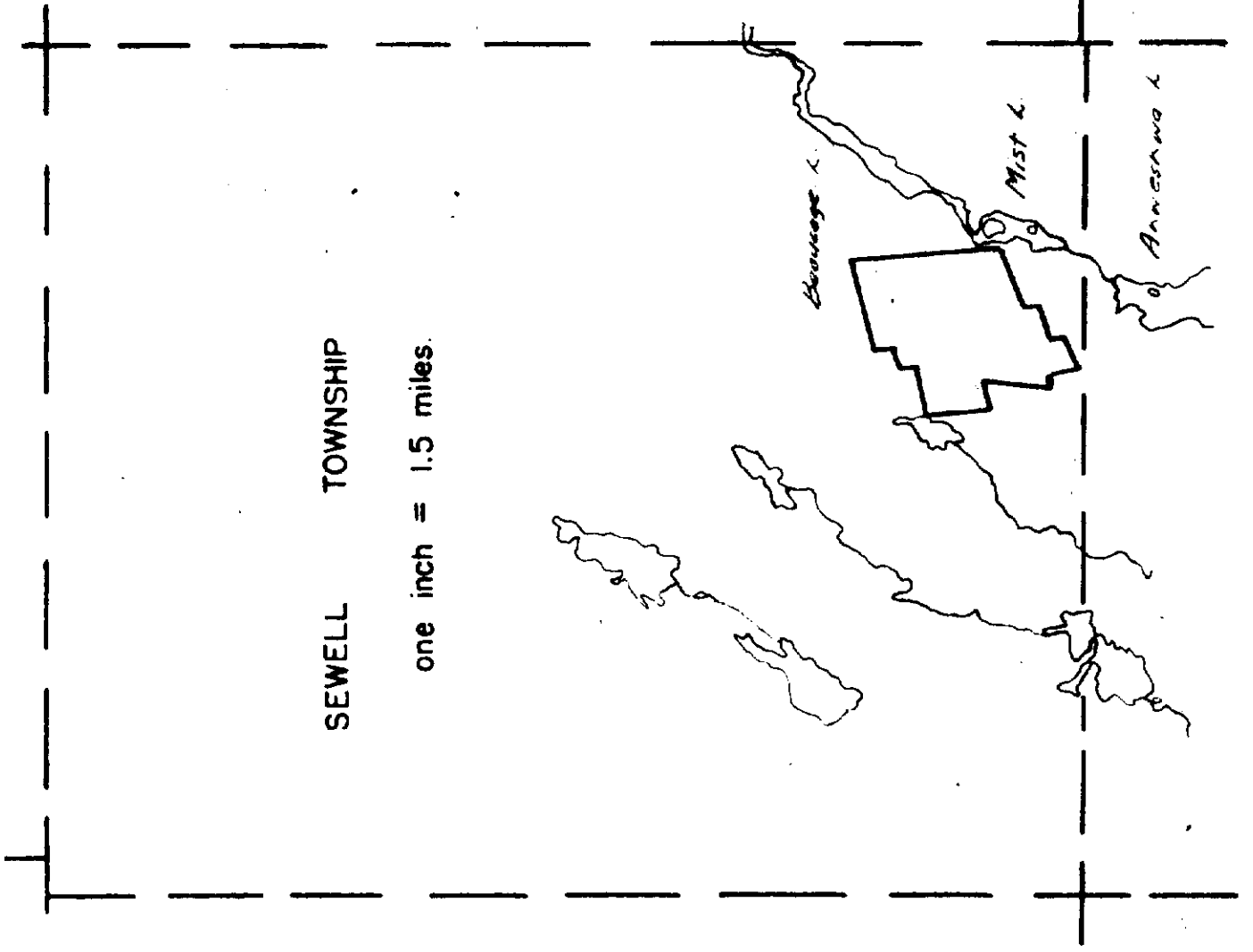
Scale: One inch = Four Hundred feet.

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(One gammae =  $1 \times 10^5$  oersteds).

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- Greenstone — mostly
- Intermediate — nature of the above.

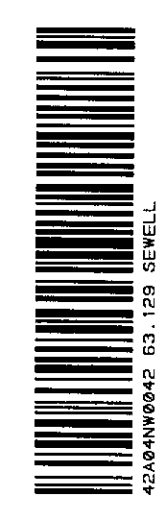
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*J. L. ...*



Sketch showing approximate location of claim group with respect to the township boundary.

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MINISTRY OF NATURAL RESOURCES

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Sewell Township  
Kenogaming Township