

52G15NW0180 52G15NW0057A1 SIXMILE LAKE

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G E O P H Y S I C A L S U R V E Y

S T U R G E O N L A K E N A R R O W S

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FORM NO. LE 111 - REVISED PAPER GRAND & TOL LIMITED

January 31, 1969

W. G. Wahl Limited

63 2437

63.2437

Suite 1101, 302 Bay Street,
Toronto 1, Ontario

January 31, 1969.

Dr. W. G. Wahl,
W. G. Wahl Limited,
Suite 1101, 302 Bay Street,
Toronto 1, Ontario.

Dear Dr. Wahl:

Submitted herewith is a report on:

GEOPHYSICAL SURVEY

STURGEON LAKE NARROWS

SIX MILE LAKE MINES SHEET NO. M2877

The positive airborne magnetic anomaly shown on the Aeromagnetic 1" Series map is confirmed beneath the waters of Sturgeon Lake Narrows. The higher resolution of the ground survey shows a number of high peaks of magnetic intensity with a more or less centrally located area of lower intensity.

Diamond-drilling is required to determine the nature of the rock causing the anomaly.

GENERAL

The claims are owned by W. G. Wahl Limited, Suite 1101, 302 Bay Street, Toronto 1. The work was carried out by the field staff of W. G. Wahl Limited.

The surveys cover claims PA41531-33, PA41535-37, PA41539, PA41543, PA41⁴564-69, PA41⁴592, and PA41⁴595.

Claims PA41543 and PA41569 were surveyed in May, 1968. A base line 600 feet in length was cut parallel to the edge of Sturgeon Lake Narrows and 3500 feet of picket lines were established to control the geophysical survey. Stations were established at 50-foot intervals on picket lines at 400-foot intervals.

The area of all of the claims covering the waters of Sturgeon Lake Narrows were subsequently surveyed from the ice in January, 1969. Picket lines were established at roughly 400-foot intervals depending on the local condition of the ice, which at this time was thin with bad slush areas. Readings were taken at approximately 100-foot intervals.

MAGNETOMETER SURVEY

A Barringer Magnetometer Model 102 with a scale sensitivity of 10 gammas was used. The data were corrected for magnetic diurnal. The corrected station values were

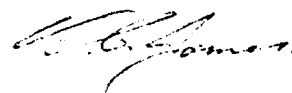
plotted at a scale of one inch equals 50 feet for the detailed survey done in May, 1968 and one inch equals two hundred feet for the survey done in January, 1969. The 1968 survey was contoured at 500-gamma intervals and the 1969 survey at 250-gamma intervals.

The 1968 survey covered small showings of base metal and rare-earth mineralization in syenite. The whole of the positive magnetic anomaly confirmed by the 1969 survey lies beneath the waters of Sturgeon Lake. The cause of the anomaly is not known but may be due to a basic or ultrabasic intrusive. Diamond drilling is contemplated.

All of which is respectfully submitted.

Sincerely yours,

W. G. WAHL LIMITED



T. C. James, Ph.D.

NOTES ON CARBONATITE OCCURRENCE 1970

In 1969, W. H. Wahl Limited, carried out a geophysical survey and diamond drilling in the Sturgeon Lake Narrows, on what is thought to be a graben structure (which formed Sturgeon Lake Narrows) and associated with the structure a carbonatite diatreme (volcanic vent pipe -- Kimberlite pipes in S. A. are diatremes.)

A mineralized trachyte dike is thought to be part of a ring dike system associated with the carbonate diatreme.

An alvikite cone sheet structure within a mylonitized scapolite syenite was intersected by the third hole drilled.

Carbonitization is prevalent and the introduction of fluorite, rare earth minerals and sulphides are related to the carbonitization.

The data obtained is of little economic significance except to confirm that the immediate environs of the carbonatite is weakly mineralized.

Apparently there is a small outcrop of carbonatite and sulphides exposed in the Sturgeon Lake Narrows. (N. Trowell, personal communication.)

Mr. R. Guillet, Resident Geologist, Southern Ontario, has a more detailed description.



SPECIAL PROV

52G15NW0180 52G15NW0057A1 SIXMILE LAKE

900

ASSESSMENT WORK DETAILS

NAMES AND ADDRESSES

Chief Line Cutter or Contractor W. J. Richards, 15 Lansdowne Ave., Sault Ste. Marie, Ont.
Party Chief Earl J. Lalonde, Suite 1101 - 302 Bay Street, Toronto 1, Ontario
Consultant W. G. Wahl Limited, Suite 1101 - 302 Bay Street, Toronto 1, Ontario

COVERING DATES

Line Cutting May 16, 1968 through January 16, 1969 inclusive
Field and Office May 16, 1968 through January 31, 1969, inclusive

INSTRUMENT DATA

Make, Model and Type Barringer Magnetometer 102
Scale Constant or Sensitivity 10 gamma
or provide copy of instrument data from Manufacturer's brochure
Total Number of Stations Within Claim Group 662
Number of Miles of Line cut Within Claim Group 14.53

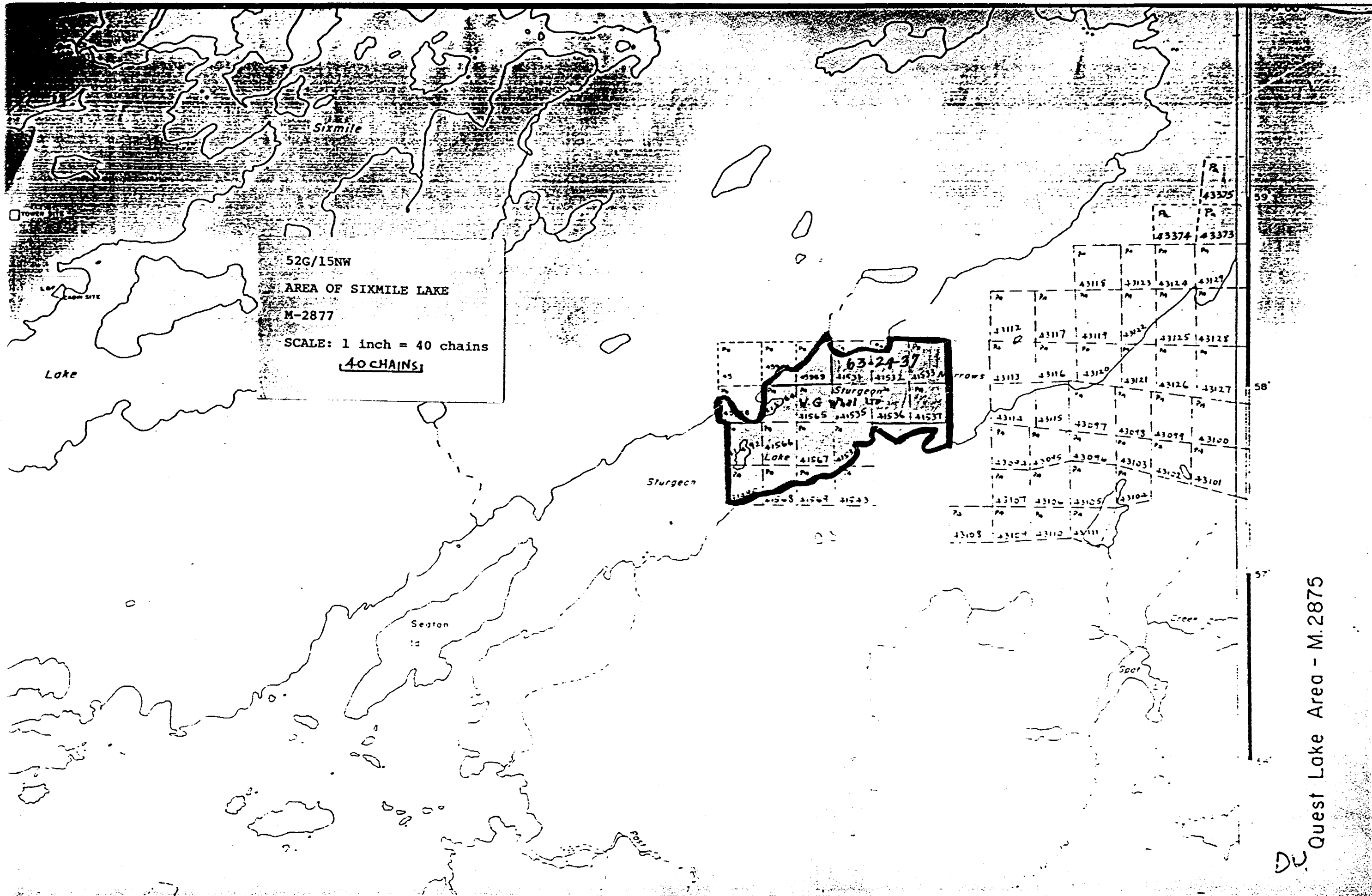
ASSESSMENT WORK CREDITS REQUESTED

Geological Survey _____ Days per Claim
Geophysical Survey 40 Days per Claim

MINING CLAIMS TRAVERSED

<u>PA 41492</u>	<u>PA 41536</u>	<u>PA 41566</u>
<u>PA 41495</u>	<u>PA 41537</u>	<u>PA 41567</u>
<u>PA 41531</u>	<u>PA 41539</u>	<u>PA 41568</u>
<u>PA 41532</u>	<u>PA 41543</u>	<u>PA 41569</u>
<u>PA 41533</u>	<u>PA 41564</u>	
<u>PA 41535</u>	<u>PA 41565</u>	<u>TOTAL 16</u>

DATE January 29, 1969 SIGNED [Signature]



52G/15NW
AREA OF SIXMILE LAKE
M-2877
SCALE: 1 inch = 40 chains
40 CHAINS

63-24-37
Sturgeon
V.G. W. L. Co.
Lake
41565 41535 41536 41537
41566 41567 41568 41569 41543

43375	43374	43373			
43118	43123	43124	43127		
43112	43117	43119	43122	43125	43128
43113	43116	43120	43121	43126	43127
43114	43115	43097	43098	43099	43100
43092	43095	43096	43103	43102	43101
43107	43106	43105	43104		
43108	43104	43110	43111		

Quest Lake Area - M.2875

D.U.

COPY



ONTARIO

THE MINING ACT REPORT OF WORK

A separate form is required for each type of work to be recorded.

To the Recorder of.....Patricia.....Mining Division
I,.....W. G. Wahl Limited.....T 20
name of Recorded Holder Miner's Licence
.....Suite 1101 - 302 Bay Street, Toronto 1, Ontario
Post Office Address

do hereby report the performance of days of type of work
not before reported to be applied on the following contiguous claims

Table with 6 columns: Claim No., Days, Claim No., Days, Claim No., Days. Rows include PA 41492, PA 41495, PA 41531, PA 41532, PA 41533, PA 41535, PA 41536, PA 41537, PA 41539, PA 41543, PA 41564, PA 41565, PA 41566, PA 41567, PA 41568, PA 41569.

All the work was performed on Mining Claim (s)
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill, Dates when drilling was done. Signed core log and sketch in duplicate.
For Compressed Air or Other Power Driven or Mechanical Equipment
Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
For Geological and Geophysical Survey - The names and addresses of men employed as well as dates. Type of instrument used in the case of geophysical survey. Reports and maps in duplicate must be filed with the Minister within 60 days of recording.
For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

Submitted under special provision of the Mining Act.
Survey completed during period of May 16th, 1968 to January 31, 1969.

W. J. Richards, Chief Line Cutter, Sault Ste. Marie
E. J. Lalonde, Chief Operator, Toronto

Date January 29, 1969

Signature of Recorded Holder or Agent

The Mining Act
Certificate Verifying Report of Work

Trevor C. James,

Suite 1101 - 302 Bay Street, Toronto 1, Ontario
(Post Office Address)

hereby certify:

- 1. That I have a personal and intimate knowledge of the facts set forth in the report of work annexed here-to, having performed the work or witnessed same during and/or after its completion.
2. That the annexed report is true.

Dated January 29 19 69

Signature

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

THE MINING ACT

FILE:

63.2437

Assessment Work Credits

Name: W. O. Vahl Ltd.

Township or Area: Six Mile Lake Area

Number of Assessment work days per claim:

Geophysical -

Geological -

Magnetometer 35 Special Prov.

Geochemical -

Mining Claims:

Radiometric -

Pa-41492

Pa-41536

Pa-41566

41495

41537

41567

41531

41539

41568

41532

41543

41569

41533

41564

41535

41565

Note: Consideration of the lack of complete coverage of the above listed claims necessitated a slight reduction of assessment work credits on a pro-rata basis.

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows:

Geophysical - 80; Geological - 40; Geochemical - 40; Radiometric - 20

SEE ACCOMPANYING
MAP(S) IDENTIFIED AS

526/15 NW-0057-A1 # 1-2

LOCATED IN THE MAP
CHANNEL IN THE
FOLLOWING SEQUENCE

(X)

