



31M13NW0045 2.13066 CATHARINE

010

ASSESSMENT REPORT  
ROCK SAMPLE ASSAY REPORT  
MINING CLAIM L 893843  
LOT 6, CONCESSION III  
CATHARINE TOWNSHIP  
DISTRICT OF TIMISKAMING

S. A. Gamble  
January 20, 1990



31M13NW0045 2.13066 CATHARINE

010C

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## INTRODUCTION

This report contains the results of analysis of rock samples taken from Mining Claim L 893843, Catharine Township, District of Timiskaming, in the fall of 1989. Sampling was carried out by B. G. Cook and S. A. Gamble.

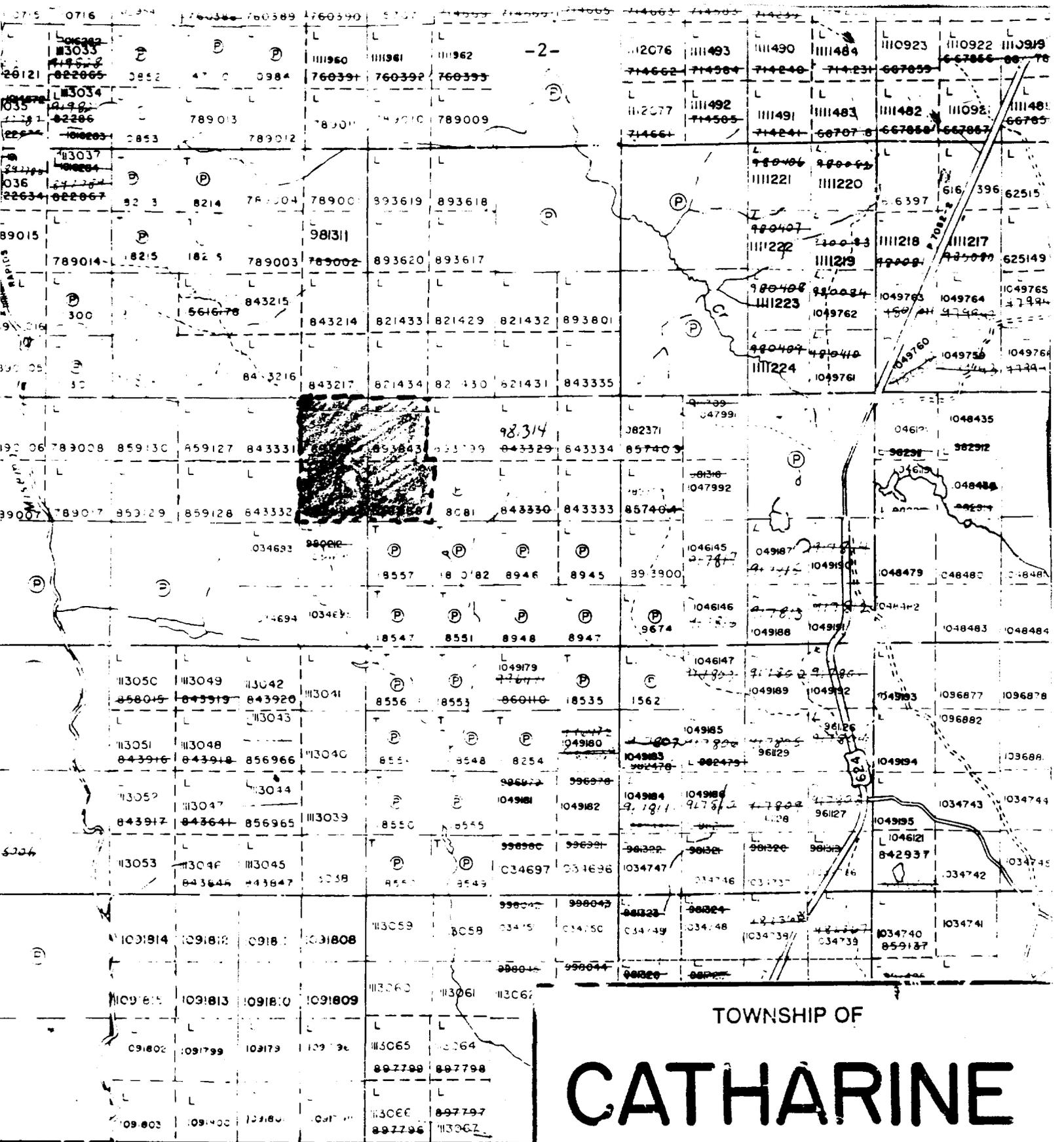
## LOCATION AND ACCESS

Mining claim L 893843 is situate in the Township of Catharine and consists of the NW $\frac{1}{4}$  of the N $\frac{1}{2}$  of Lot 6, Concession III. (See location map)

The property is reached by travelling north from Englehart, on Highway 624 approximately 14 miles to where a well used bush road leaves Highway 624 towards the northwest. This road can be followed by truck for approximately 3 miles to where an overgrown logging road leads south. This overgrown logging road leads to the former bush trail to the property approximately  $\frac{3}{4}$  miles south. The property is becoming more easily accessible because of increased mining exploration in the area .

## HISTORY

A number of individuals and companies have held the property since 1916. It had been part of a group of claims adjacent to the " shaft " claim of Ostrom Gold Mines and Canora Gold Copper Mines Ltd. ( also Primary Gold Mines Ltd.) In the early 1970's it was held by Moncrieff Uranium Mines Ltd as part of the J.M. French claims.



LOCATION MAP.  
MARTER TP.

TOWNSHIP OF  
**CATHARINE**  
DISTRICT OF  
TIMISKAMING  
LARDER LAKE  
MINING DIVISION  
SCALE 1 INCH = 40 CHAINS (1/2 MILE)

In the early 1980's it was part of group optioned to Kennco Exploration Ltd. Presently it is held by B. G. Cook and S. A. Gamble.

#### TOPOGRAPHY AND VEGETATION

The topography of Mining Claim L 893843 is generally rock outcrop with local relief varying within 6 meters. Low wet areas occur between outcrops. The western boundary runs through a large beaver pond from the number 3 post for approximately 320 feet to where rocky ground is again encountered.

Vegetation consists of mixed evergreen and deciduous bush typical of Northern Ontario second growth. Alders occur in the low areas and on the overgrown roads.

#### ROCK SAMPLING AND ANALYSIS

A total of 35 samples were collected from exposed quartz veins and altered wall rocks. Six sites for sample collection were established. ( See plan that accompanies this report and Appendix A. for sample and site numbers.) Channel sampling was carried out across localized quartz veins and altered wall rocks. Sample widths varied from 6 inches to 8 feet. No visible gold was seen in any sample.

The samples were submitted to Swastika Laboratories for gold analysis with the results obtained in PPB's. The results varied from Nil to 3360/3220 PPB gold. ( See Certificate of Analysis accompanying this report)

RECOMMENDATIONS

It is recommended that power stripping in the sample areas be carried out to further delineate the extent of the quartz veins and alteration. Detailed sampling should then be done in the vicinity of the anomalous values to confirm preliminary results and to determine the existence of possible anomalous zones.

It is also recommended that all other exposed quartz veins and altered wall rocks on Mining Claim L 893843 be mapped and sampled.



Established 1928

-5-  
**Swastika Laboratories**

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

## Certificate of Analysis

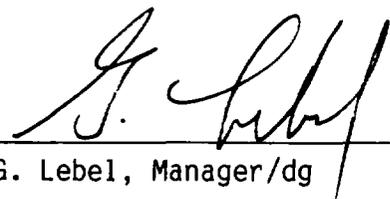
Certificate No. 77009

Date Dec. 4, 1989

Received Nov. 29, 1989 35 rock samples

Submitted by S.A. Gamble (Snowshoe A&T), Kirkland Lake, Ontario

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
7001	10	7022	20
7002	80	7023	40
7003	30	7024	Nil
7004	40/30	7025	190
7005	40	7026	30
7006	20	7027	3360/3220
7007	Nil	second pulp	3020/3150
7008	90	7028	120
7009	Nil	7029	40
7010	40	7030	50
7011	330/320	7031	10
7012	20	7032	10
7013	20	7033	70
7014	150	7034	190
7015	120	7035	210/180
7016	130		
7017	230		
7018	30		
7019	50		
7020	Nil		
7021	20		

Per   
G. Lebel, Manager/dg



P.O. Box 10, Swastika, Ontario P0K 1T0  
Telephone (705) 642-3244 FAX (705) 642-3300

21257



**SWASTIKA LABORATORIES LIMITED**

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0  
 TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR DATE ANNEE  
 MOIS  
 5 Dec 1989  
 DAY MONTH YEAR

TRANSPORTEUR  
 SHIPPED VIA

VENDU A  
 SOLD TO

S.A. Gamble (Snowshoe A&T)  
 70 First St.  
 Kirkland Lake, Ontario  
 P2N 1N3

1.5% LATE CHARGE OVER 30  
 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD.	NO. D'EXEMPT. DE TAXE PROV.	VOTRE NO. DE COMMANDE	NOTRE NO DE COMMANDE	CONDITIONS	REP. DES VENTES
FED. LICENCE NO.	PROV. LICENCE NO.	YOUR ORDER NO.	OUR ORDER NO.	NET 30 DAYS	SALES REP.
QUANTITE QUANTITY	DESCRIPTION			TERMS PRIX UNITAIRE UNIT PRICE	MONTANT AMOUNT
35 35	Au assays Sample handling Cert.#77009 Dec. 4, 1989			\$ 8.75 3.00	\$ 306.25 105.00
				SWASTIKA LABORATORIES LTD.  WITH THANKS <i>M. Sanchez</i> TOTAL....\$ 411.25	

FACTURE/INVOICE ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS  
 ESTABLISHED 1928



APPENDIX A. ( L 893843 )

SITE A.

- 7001- carb altered rocks, grey, rim of alteration
- 7002- q.v.
- 7003- altered rocks
- 7004- alt. rx., q.v.
- 7005- q.v. pyrite
- 7006 alt. rx. pyrite,
- 7007- alt. rx. q.v., stringers, pyrite
- 7008- alt. rx, pyrite
- 7009- alt. rx.
- 7010- alt.rx,q.v.stringers, pyrite
- 7011- q.v., pyrite
- 7012- alt.rx.

SITE B.

- 7013- blue-grey q.v., pyrite
- 7014- blue-grey q.v.,pyrite
- 7015- blue quartz, sulphides
- 7016- q.v.,pyrite
- 7017- q.v. with pyrite

SITE C.

- 7018- q.v., alt rx
- 7019- q.v., alt. rx
- 7020- bleached silicious rock

SITE D.

- 7021- q.v.
- 7022-alt.rx, q.v.
- 7023- alt.rx, q.v.

SITE E.

- 7024- white q.v.
- 7025- alt. rx. narrow stringer,
- 7026- wide q.v.
- 7027- wide q.v.

SITE F.

- 7028- q.v.
- 7029- q.v.,alt.rx.
- 7030- q.v.
- 7031- q.v.
- 7032- q.v.
- 7033- q.v.
- 7034- alt.rx, stringers,pyrite
- 7035- alt. rx, stringers,pyrite

CERTIFICATE OF THE AUTHOR

I, S.A. Gamble of 70 First Street, Kirkland Lake, Ontario formerly of Kamloops, British Columbia, certify that:

1. I am a prospector residing at the above address and have held an Ontario Prospector's licence since 1979.
2. I am a graduate of the University of Ottawa, and Simon Fraser University, and I have studied earth science for two years at the University of Ottawa, and one year at Laurentian University.
3. I have more than ten years relevant practical experience relating to prospecting.
4. I have in conjunction with B. G. Cook, planned, directed, and carried out the work represented by this report. I have of my own accord made the recommendations contained in this report.
5. I hold a 50% interest in M.C. L 893843.

Respectfully submitted,

  
S. A. Gamble

January 22, 1990



31M13NW0045 2.13066 CATHARINE

020

2.13066

ASSESSMENT REPORT

RADIOMETRIC SURVEY

M.C. L 893843

LOT 6, CONCESSION III

CATHARINE TOWNSHIP

DISTRICT OF TIMISKAMING

S. A. Gamble  
January 22, 1990



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## MAPS

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RADIOMETRIC SURVEY...(Back Pocket)	

## INTRODUCTION

This report contains the results of a radiometric survey carried out on Mining Claim L 893843 in Catharine Township in October of 1989.

The purpose of the survey was to conduct a detailed exploration of the rocks to determine if any properties associated with radioactivity were present; and to investigate the possibility of using the BGS-4 instrument as a general mapping aid.

## LOCATION AND ACCESS

Mining claim L 893843 is situated in the Township of Catharine and consists of the NW $\frac{1}{4}$  of the N $\frac{1}{2}$  of Lot 6, Concession III. ( See location Map)

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## HISTORY

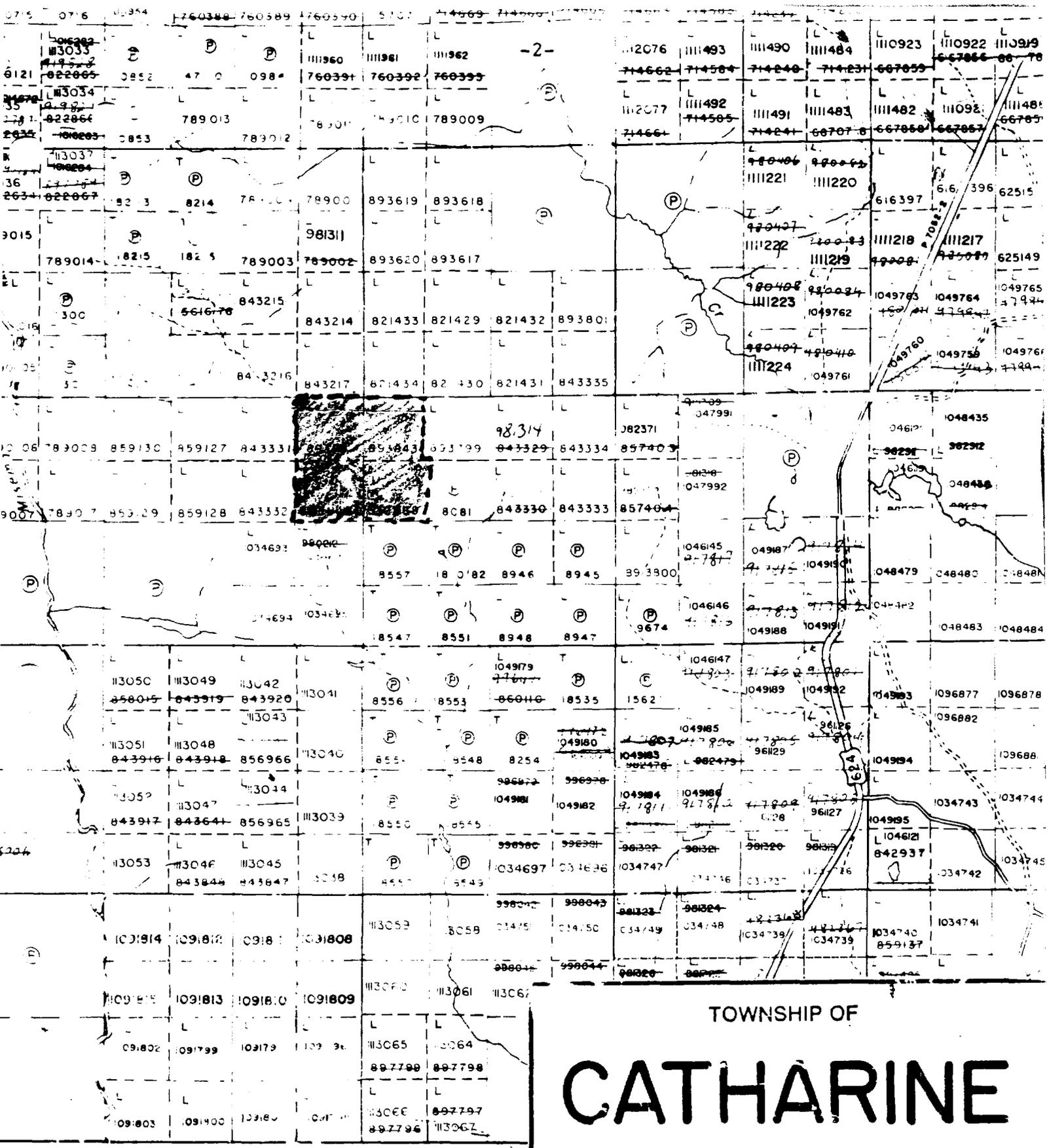
A number of individuals and companies have held the property since 1916. It had been part of a group of claims adjacent to the "shaft" claim of Ostrom Gold Mines and Canora Gold Copper Mines Ltd. ( also Primary Gold Mines). In the early 1970's it was held by Moncrieff Uranium Mines Ltd. as part of the J.M. French claims.

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Vegetation consists of mixed evergreen and deciduous bush typical of Northern Ontario second growth. Alders occur in the low areas and on the overgrown roads.



TOWNSHIP OF

# CATHARINE

DISTRICT OF  
TIMISKAMING

LARDER LAKE  
MINING DIVISION

SCALE 1" = 40 CHAINS (1/2 MILE)

LOCATION MAP.

MARTER TP.

9 3 7 6

### RADIOMETRIC SURVEY

In October ,1989 a Scintrex BGS-4 was carried along all pre-existing grid lines. Continuous digital display and the audio output of the instrument were both used simultaneously to determine if any anomalous values were present. Numerical readings of the digital display were recorded at all stations, and later plotted on the map which accompanies this report.

The readings varied from a low of 20cps ( counts per second) to a high of 59 cps.( See map,) These readings were only slightly varied from the background range calculated at 30 to 42 cps.

Gamma rays may arise from K,Th, U, or their daughter products with gamma ray intensity decreasing exponentially in passing through matter. Only one meter of overburden may at times stop gamma rays completely. Taking into account the topography of L 893843 which varies from low wet areas to outcroppings, and the depth of the overburden; the energies of gamma rays reaching the detector were very insignificant.

### CONCLUSIONS AND RECOMMENDATIONS

Due to the low contrast in BGS-4 readings across M.C. L 893843 no further investigation with the BGS-4 is warranted.

No consistent relation between underlying geological changes and the BGS-4 readings was observed, therefore it is concluded that using the BGS-4 as a mapping aid would not be beneficial in this case.

#### 4. Specifications of the BGS-4

The BGS-4 has been carefully designed and engineered to meet the following specifications:-

Detector	Thallium activated sodium iodide crystal and photomultiplier assembly, hermetically sealed, magnetically shielded and encapsulated to keep temperature and mechanical shocks to a minimum. Special ruggedized bond between crystal and photomultiplier tube.
Crystal Volume	5.0 cubic inches; 82 cc.
Crystal Dimensions	Near-cubic 1.6 x 1.6 x 1.96 inches; 405 x 405 x 500 mm.
High Voltage Supply	Generated by internal converter. Nominally 750 V.
Energy Response	Broadband; all gamma energies above 0.05 MeV.
Equivalent Elemental Response	15 cps/% K 15 cps/ppm eU 5 cps/ppm cTh
Accuracy	±5%.

Audio Output	Response time constant is $\frac{1}{4}$ second.  The frequency of the output is proportional to the excess count-rate over the threshold. The frequency will increase from a few counts per second to 2,000 cps in the Normal Range and up to 20,000 cps in the High Range. The threshold is continuously variable.
Visual Display	Liquid crystal display up to 1999. Normal Range (x1) plus High Range (x10) permit readings up to 19,990 cps  Indication of battery condition.
Temperature Range	With the exception of the digital display, all technical specifications are met over the range of $-20^{\circ}$ to $+55^{\circ}\text{C}$ . It is also recommended to store the instrument within this temperature range to protect the detector. The BGS-4 liquid crystal display digits may begin to change slowly at about $-10^{\circ}\text{C}$ and slow even more at lower temperatures.
Power Supply	4 'D' cells installed under removable handle assembly. Alkaline cells give 40 hours of continuous use at $20^{\circ}\text{C}$ , without alarm. Battery condition displayed on digital display.
Dimensions	260 x 180 x 95 mm overall, including handle.
Weight	2.3 kg including batteries.
Standard Accessories	Clip-on shoulder strap for hands-free operation.  Thorium test sample.
Optional Accessory	Foam-lined, fibre or metal carrying case.
Shipping Weight	Approximately 4 kg; 6 kg with fibre case.

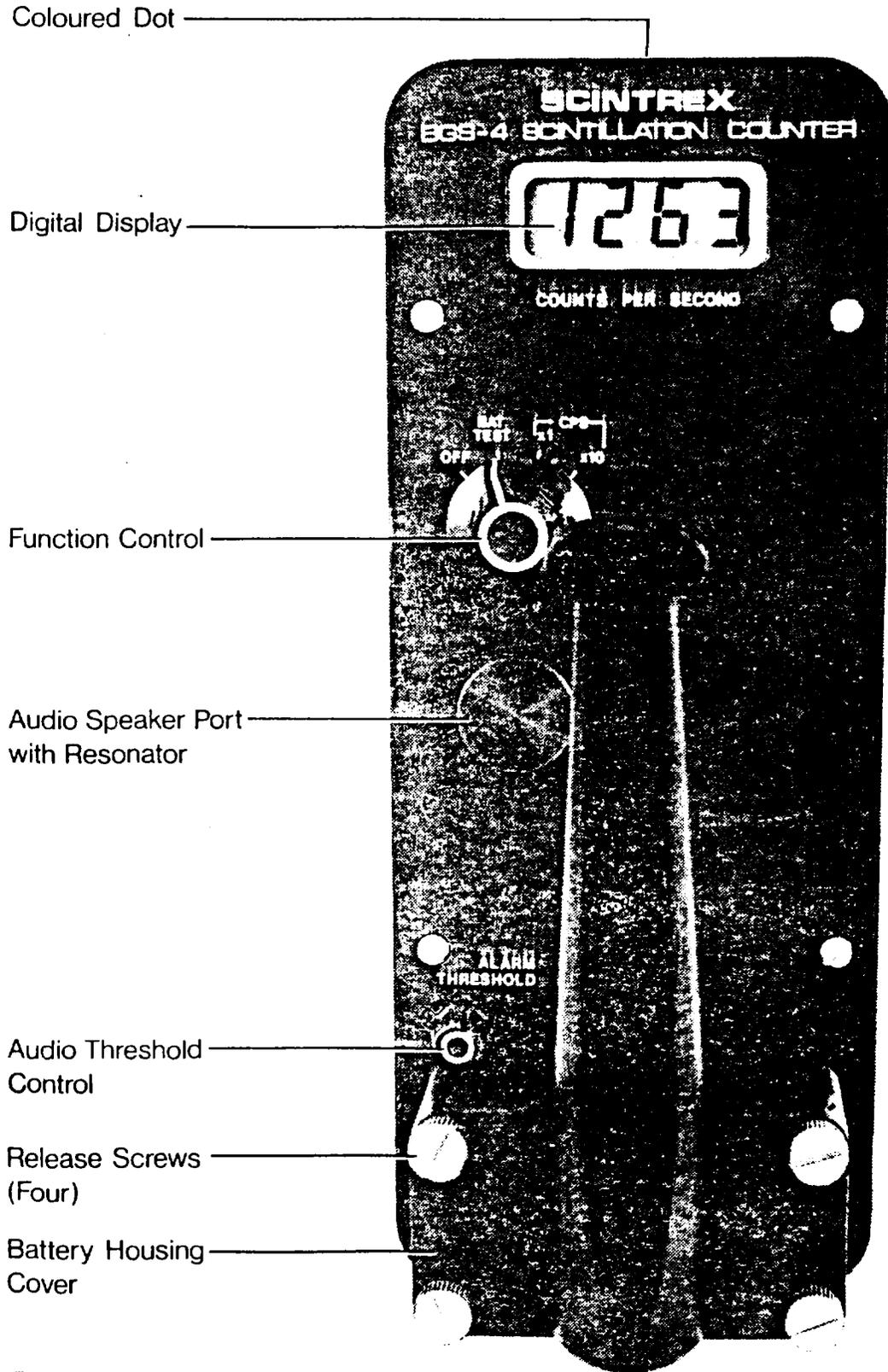


Figure 1

CERTIFICATE OF THE AUTHOR

I, S. A. Gamble, of 70 First Street, Kirkland Lake, Ont., formerly of Kamloops, British Columbia, certify that:

1. I am a prospector residing at the above address and have held an Ontario Prospector's licence since 1979.
2. I am a graduate of the University of Ottawa and Simon Fraser University, and I have studied earth science for two years at the University of Ottawa, and one year at Laurentian University.
3. I have more than ten years relevant practical experience relating to prospecting.
4. I have in conjunction with B.G. Cook planned, directed, and carried out the geophysical survey represented by this report. I have interpreted the results of this survey.
5. I hold a 50% interest in M.C. L 893843.

Respectfully submitted,



S.A. Gamble  
January 23, 1990







File \_\_\_\_\_

GEOCHEMICAL SURVEY - PROCEDURE RECORD

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Numbers of claims from which samples taken \_\_\_\_\_

Total Number of Samples \_\_\_\_\_
Type of Sample (Nature of Material) \_\_\_\_\_
Average Sample Weight \_\_\_\_\_
Method of Collection \_\_\_\_\_
Soil Horizon Sampled \_\_\_\_\_
Horizon Development \_\_\_\_\_
Sample Depth \_\_\_\_\_
Terrain \_\_\_\_\_
Drainage Development \_\_\_\_\_
Estimated Range of Overburden Thickness \_\_\_\_\_

SAMPLE PREPARATION (includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis \_\_\_\_\_
Commercial Laboratory (\_\_\_\_\_ tests)
Name of Laboratory \_\_\_\_\_
Extraction Method \_\_\_\_\_
Analytical Method \_\_\_\_\_
Reagents Used \_\_\_\_\_
General \_\_\_\_\_

ANALYTICAL METHODS

Values expressed in: per cent [ ]
p. p. m. [ ]
p. p. b. [ ]
Cu, Pb, Zn, Ni, Co, Ag, Mo, As, (circle)

Others \_\_\_\_\_
Field Analysis (\_\_\_\_\_ tests)
Extraction Method \_\_\_\_\_
Analytical Method \_\_\_\_\_
Reagents Used \_\_\_\_\_
Field Laboratory Analysis

No. (\_\_\_\_\_ tests)
Extraction Method \_\_\_\_\_
Analytical Method \_\_\_\_\_
Reagents Used \_\_\_\_\_

Type of Survey(s) Radiometric
Township or Area Catharine
Claim Holder(s) B. G. Cook & S. A. Gamble
Survey Company self
Author of Report S. A. Gamble
Address of Author 70 First Street
Covering Dates of Survey October 29, 1990 - Jan 1990 (linecutting to office)
Total Miles of Line Cut existing grid

SPECIAL PROVISIONS CREDITS REQUESTED
Geophysical
- Electromagnetic
- Magnetometer
- Radiometric 20
- Other
Geological
Geochemical
ENTER 40 days (includes line cutting) for first survey.
ENTER 20 days for each additional survey using same grid.

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_
(enter days per claim)

DATE: Jan 23, 1990 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications \_\_\_\_\_

Table with 3 columns: Previous Surveys File No., Type, Date, Claim Holder

MINING CLAIMS TRAVERSED List numerically
L 893843 (prefix) (number)

TOTAL CLAIMS \_\_\_\_\_

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations \_\_\_\_\_ Number of Readings \_\_\_\_\_  
Station interval \_\_\_\_\_ Line spacing \_\_\_\_\_  
Profile scale \_\_\_\_\_  
Contour interval \_\_\_\_\_

MAGNETIC  
Instrument \_\_\_\_\_  
Accuracy - Scale constant \_\_\_\_\_  
Diurnal correction method \_\_\_\_\_  
Base Station check-in interval (hours) \_\_\_\_\_  
Base Station location and value \_\_\_\_\_

ELECTROMAGNETIC  
Instrument \_\_\_\_\_  
Coil configuration \_\_\_\_\_  
Coil separation \_\_\_\_\_  
Accuracy \_\_\_\_\_  
Method:  Fixed transmitter  Shoot back  In line  Parallel line  
Frequency \_\_\_\_\_ (specify V.L.F. station)  
Parameters measured \_\_\_\_\_

GRAVITY  
Instrument \_\_\_\_\_  
Scale constant \_\_\_\_\_  
Corrections made \_\_\_\_\_  
Base station value and location \_\_\_\_\_

INDUCED POLARIZATION  
Elevation accuracy \_\_\_\_\_  
Instrument \_\_\_\_\_  
Method  Time Domain  Frequency Domain  
Parameters - On time \_\_\_\_\_ Frequency \_\_\_\_\_  
- Off time \_\_\_\_\_ Range \_\_\_\_\_  
- Delay time \_\_\_\_\_  
- Integration time \_\_\_\_\_  
Power \_\_\_\_\_  
Electrode array \_\_\_\_\_  
Electrode spacing \_\_\_\_\_  
Type of electrode \_\_\_\_\_

SELF POTENTIAL

Instrument \_\_\_\_\_ Range \_\_\_\_\_  
Survey Method \_\_\_\_\_

Corrections made \_\_\_\_\_

RADIOMETRIC

Instrument Scintrex BGS-4 Gamma-Ray Scintillation Counter  
Values measured continuous with readings at stations in counts per second.  
Energy windows (levels) above 0.05 MeV, (varied between 20cps-59cps); (x1) (x10)  
Height of instrument waist height Background Count 6cps  
Size of detector as per specifications for the BGS-4 Scintrex (see report)  
Overburden clay and till mix, to a depth of 8 feet  
(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey \_\_\_\_\_  
Instrument \_\_\_\_\_  
Accuracy \_\_\_\_\_  
Parameters measured \_\_\_\_\_  
Additional information (for understanding results) \_\_\_\_\_

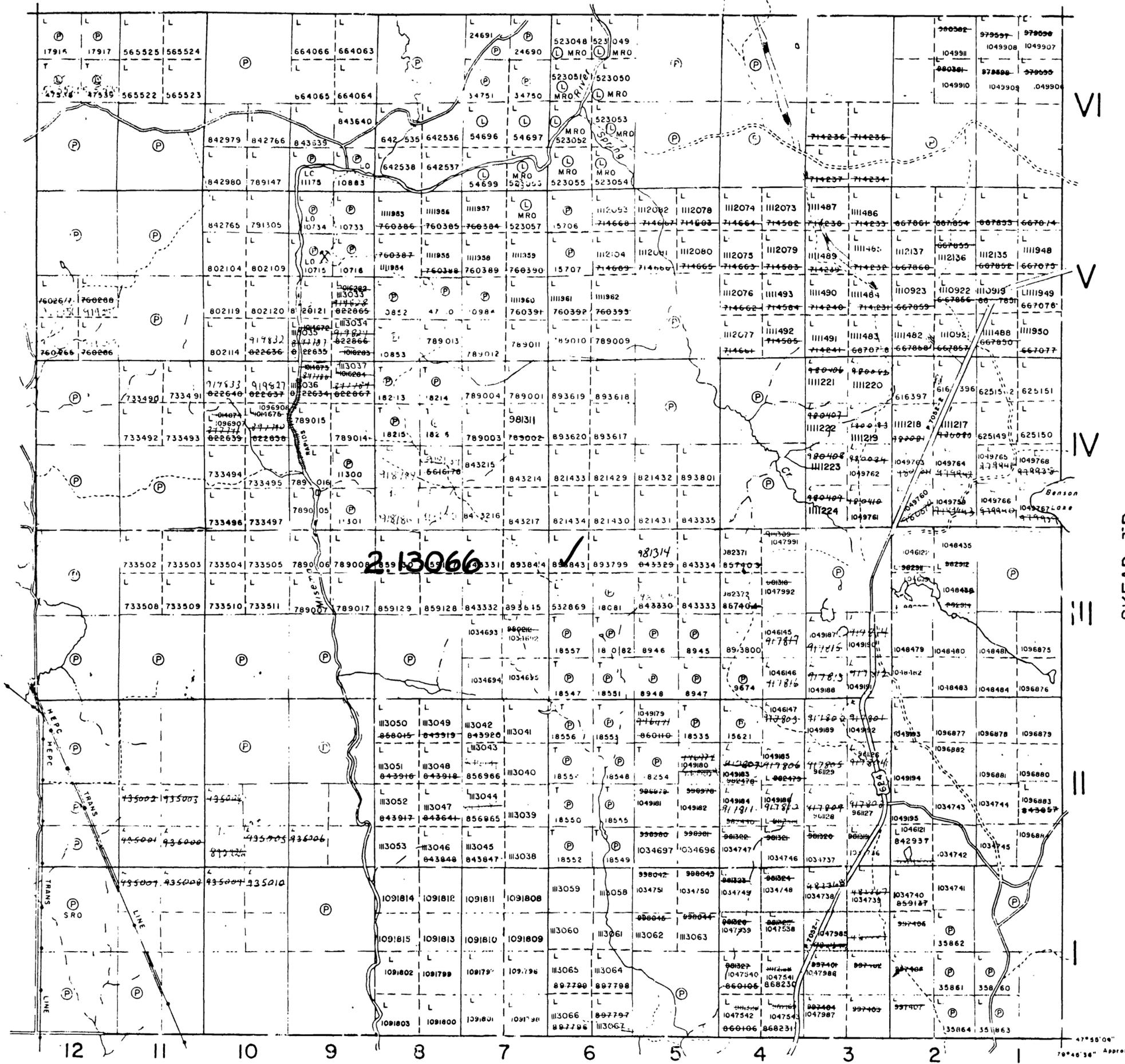
AIRBORNE SURVEYS

Type of survey(s) \_\_\_\_\_  
Instrument(s) \_\_\_\_\_ (specify for each type of survey)  
Accuracy \_\_\_\_\_ (specify for each type of survey)  
Aircraft used \_\_\_\_\_  
Sensor altitude \_\_\_\_\_  
Navigation and flight path recovery method \_\_\_\_\_

Aircraft altitude \_\_\_\_\_ Line Spacing \_\_\_\_\_  
Miles flown over total area \_\_\_\_\_ Over claims only \_\_\_\_\_



PACAUD TP



AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY  
S.R.O. - SURFACE RIGHTS ONLY  
M.+S. - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition

### NOTICE OF FORESTRY ACTIVITIES

THIS TOWNSHIP / AREA FALLS WITHIN THE  
TIMISKAMING MANAGEMENT UNIT  
AND MAY BE SUBJECT TO FORESTRY OPERATIONS  
THE MNR UNIT FORESTER FOR THIS AREA CAN  
CONTACTED AT: P.O. BOX 129  
SWASTIKA, ONT.  
POKITO  
705-642-3222

### LEGEND

- PATENTED LAND (P)
- PATENTED FOR SURFACE RIGHTS ONLY (P)
- LEASE
- LICENSE OF OCCUPATION
- CROWN LAND SALES
- LOCATED LAND
- CANCELLED
- MINING RIGHTS ONLY (M)
- SURFACE RIGHTS ONLY (S)
- HIGHWAY & ROUTE NO.
- ROADS
- TRAILS
- RAILWAYS
- POWER LINES
- MARSJ OR MUSKEG
- MINES

TOWNSHIP OF  
**CATHARINE**  
DISTRICT OF  
TIMISKAMING

LARDER LAKE  
MINING DIVISION

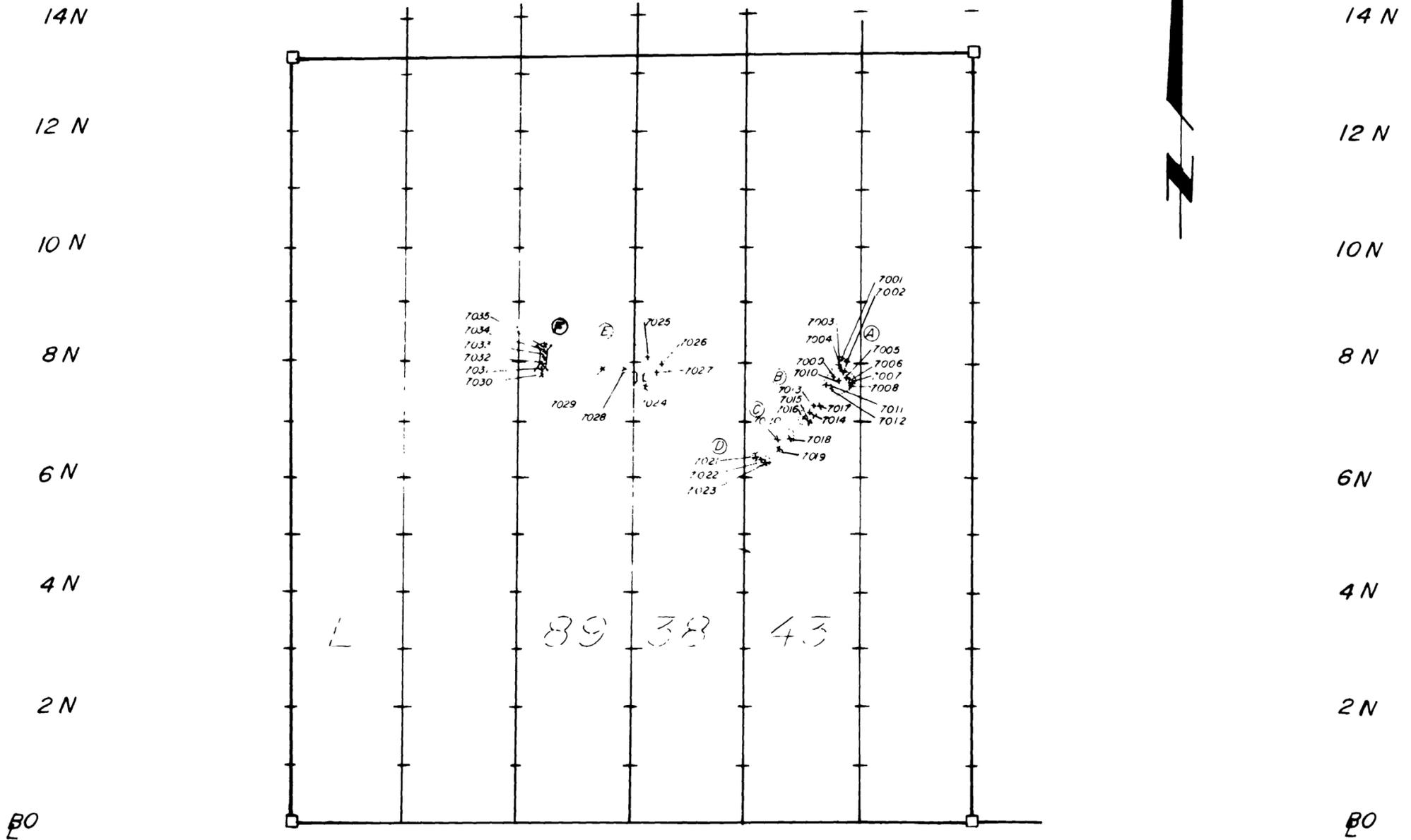
SCALE: 1 INCH = 40 CHAINS (1/2 MILE)  
DATE JULY 1986 PLAN NO. G-3615



31M13NW0045 2.13066 CATHARINE



2W 0 2E 4E 6E 8E 10E

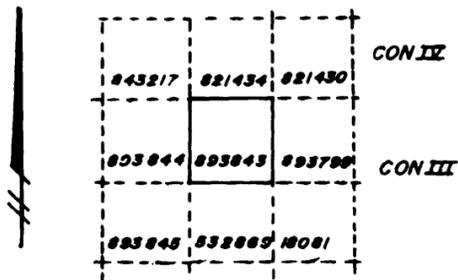


LEGEND:  
 SAMPLE NUMBER 7001  
 SITE (A)  
 OUTCROP  
 GRID LINE |  
 CLAIM POST □

2W 0 2E 4E 6E 8E 10E 12E

SCALE: 1" = 200 FEET  
 0 200 400 600

CATHARINE TOWNSHIP



LOT 7 LOT 6  
 KEY PLAN: 1 INCH = 2640 FEET



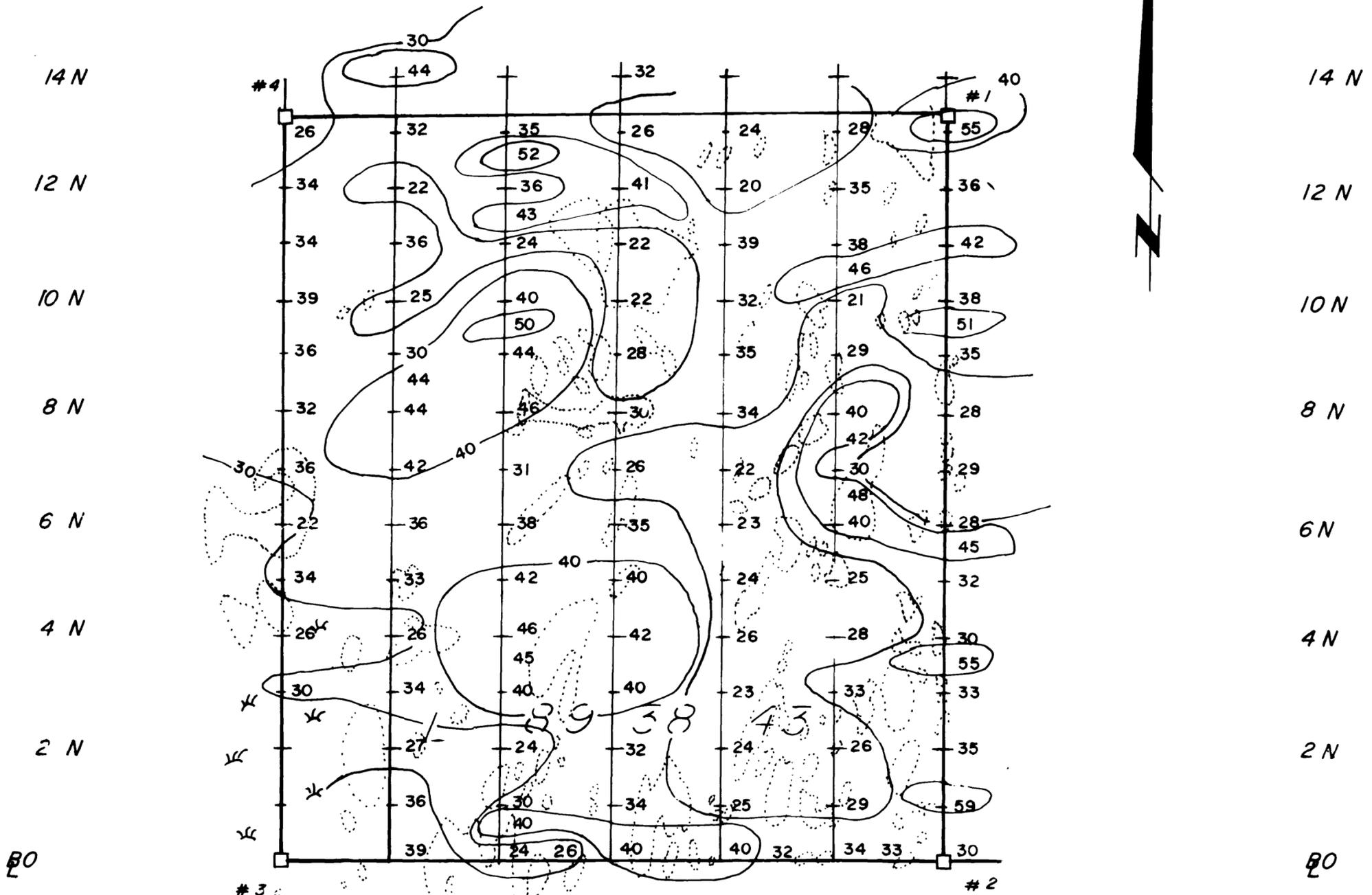
31M13NW0045 2.13066 CATHARINE

210

KIRKLAND LAKE, ONT. S.A. GAMBLE  
 JANUARY 31, 1990

COOK GAMBLE CLAIM  
 CATHARINE TOWNSHIP  
 DISTRICT OF TIMISKAMING 2.13066  
 L 893843  
 ROCK SAMPLE LOCATIONS

2W 0 2E 4E 6E 8E 10E



LEGEND

- GRID LINE
- STATION
- CONTOUR LINE
- OUTCROP
- CONTOUR INTERVAL: 10 C.P.S.

SCALE: 1" = 200 FEET



CATHARINE TOWNSHIP

CON IV

CON III

LOT 7 LOT 6

KEY PLAN: 1 INCH = 2640 FEET



220

KIRKLAND LAKE, ONT. S.A. GAMBLE  
JANUARY 22, 1990

COOK - GAMBLE CLAIM  
CATHARINE TOWNSHIP  
DISTRICT OF TIMISKAMING  
L 893843  
RADIOMETRIC SURVEY

**2.13066**