



52N07SE0036

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RECEIVED
OCT 26 1981
MINING LANDS SECTION

REPORT ON THE SWAIN LAKE PROPERTY

Project Code # 1243

N.T.S. 52N-7-SE

M-2065

Claims: 509420 - 509431 inclusive

509746 - 509750 inclusive

533135 - 533139 inclusive

Date: October 21, 1981

Author: D. Clement



REPORT ON THE SWAIN LAKE PROPERTY

Project Code # 1243

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Claims: 509420 - 509431 inclusive

509746 - 509750 inclusive

533135 - 533139 inclusive

INTRODUCTION

The Swain Lake Property consists of 25 mining claims located in the Shabumeni Lake Area (M-2665), Honeywell Township. During the period of Sept. 1980 a grid was completed on the property followed by a verticle magnetometer survey in March 1981.

LOCATION AND ACCESS

The Swain Lake Property is located in the Red Lake Mining Distric (Shabumeni Lake Area (M-2665) approximately 55 miles northeast of Red Lake. Access is solely by airplane.

OWNER

The property is held by Rodney Knappett
157 Jeffcoat Drive
Rexdale, Ontario

and by Sherritt Gordon Mines Limited
Box 28 Commerce Court West
Toronto, Ontario
M5L 1B1

GENERAL GEOLOGY

N.T.S. 52-N-&-SE

The general geology of the Swain Lake Property and immediate surrounding area consists of Precambrian rocks: lower volcanics, timiskaming type (shabu series) sediments and Algoman type granite porphyry's. The most common rock types occuring in the Lower volcanic group are green stone, some rhyolite schist's, of which

rhyolites occur in minor amounts about a mile north west of the east end of Swain Lake.

The Timiskaming Type sediments constitute a folded syncline underlying Shabumeni Lake. The south end of the "east limb" was found a short distance northeast of the post of the Ontario Forestry Branch on Swain Lake and curves north eastward through the central south part of the lake, along the north shore of the north end where it is separated from the north limb by a narrow belt of chlorite schist which is exposed on the islands. At the north end most of the sediments are cut out by granites and metamorphosed to hornblende schists which appear to mix with the lavas.

The Algonmanian Type granitic rocks vary greatly. At the east end of Swain Lake there is a medium-grained hornblende syerite bearing traces of quartz. Parts of the batholith are quartz and feldspar porphyry. This mass constitutes a steep hill about 145' high immediately south of the lake. The sulphide mineralization of this area occur as chalcopyrite, sphalerite, galena and arsenopyrite. Cobaltite was also found.

PRESENT WORK

- (a) Linecutting: the linecutting was completed by Alex Kozy, Ignace, Ontario. The grid consists of 1.55 miles of EW baselines @ 50° mag. and NS tie line @ 90° to the baseline.

@ 50° Magnetic -1200 - N/S 800' -6200

EW baseline @ True

Total baseline 1.55 miles

Total picketlines 27.50 miles

28.5 miles

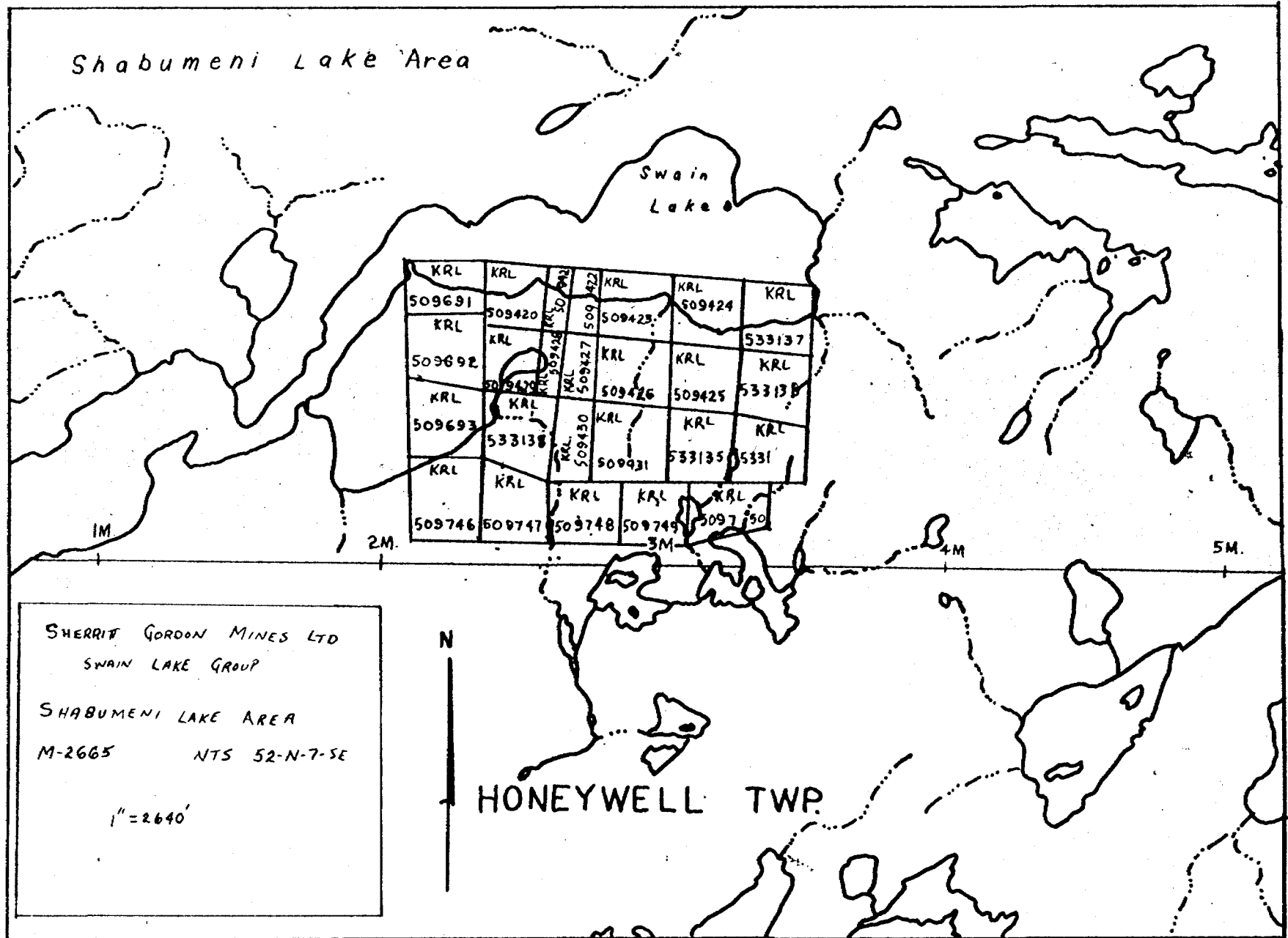
- (b) Geophysical Survey: the magnetometer survey was completed with a Scintrex Vertical Fluxgate Magnetometer MF-2. Readings were taken @ 50' intervals. Base stations were located on the base lines and looped into the cross-section lines. Maps are plotted @ Horizontal scale 1"=20%.

Submitted October 21, 1981

A handwritten signature in cursive script, appearing to read "D. G. Clement". The signature is written in dark ink and is positioned above the printed name.

Donald G. Clement.

Shabumeni Lake Area





INTERPRETIVE NOTES

Swain Lake

Swain Lake Magnetometer Survey

Mining Claims 509420 - 509432 inclusive

509746 - 509750 inclusive

533135 - 533139 inclusive

The area comprises several magnetic units which appear to delineate the rocks formations in the claim block. The most prominent magnetic feature appears to be a broad zone of magnetics about 800-1400' wide, which forms a horseshoe pattern on the north, west and east areas of the map, being open ended toward the east. The area is located over part of a small batholith which occupies the area south east of Swain Lake.

The magnetometer survey has outlined a central area of the claim group where lower magnetic intensities of 800 to 1000 gammas are in contrast with a magnetic rim of from 3000-8000 gammas on the North east and of much lesser intensities to the south-west.

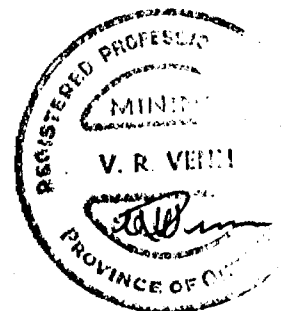
Within the central core (2000' diameter) are small magnetic anomalies of 1000 to 2000 gammas above a background of about 800 gammas. Associated with these are linear shaped magnetic lows of -400 to -500 gammas. Several of these minor anomalies appear to have a northwesterly strike. The central core area of the magnetics is known to have associated copper and cobalt mineralization.

Geological reports of the area infer that the pluton varies in composition from feldspar porphyry to syno-diorite. Without the aid of an EM survey to interpret areas of better conductivity, areas of further examination can only be inferred.

Any further work should be to examine the area of the pluton where it is in contact with the surrounding country rock. The magnetic highs and lows within the central magnetic low should be examined as a possible area of sulphide mineralization. These smaller anomalies within the central area may represent late magnetic differentiates intruding the main pluton mass or xenolithic material rafted from the surrounding country rock. Whatever their cause they may be an important structural element related to any mineralization within the pluton mass.

Submitted October 21, 1981

Verdun Venn.





SCINTREX VERTICLE FLUXGATE MAGNETOMETER
MF2 - 100

The MF2-100 fluxgate magnetometer weighs 2.9 Kg in the field and is powered by 24 VDC cells, 4 D cells or a 6 V Pb acid battery. It measures the vertical components of the earth's magnetic field, and in survey use is carried around the operator's neck. The range of the MF2-100 is $\pm 1,000,000 \gamma$ having a meter readout device with the highest sensitivity selectable usually being 10 or 20 γ per small division.

In the field the base central station is set in relation to a general magnetic background within easy accessibility in relation to the area being surveyed; usually the base line on a grid survey. The magnetometer is set to reach between 0 and 200 with an an arbitrary value of 1000 to 800 γ added to avoid small negative readings.



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900

File _____

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.

Type of Survey(s) Geophysical
Township or Area Honeywell Township (Shabumeni Lake)
Claim Holder(s) Rodney Knappett
Sherritt Gordon Mines Limited
Survey Company Sherritt Gordon Mines Limited
Author of Report V. Venn; D. Clement
Address of Author Box 723, Dryden Ontario P8N 2Z4
Covering Dates of Survey March 1981
Total Miles of Line Cut 29.5

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	<u>DAYS</u> <u>per claim</u>
ENTER 40 days (includes line cutting) for first survey.	Geophysical --Electromagnetic _____ --Magnetometer <u>40</u> --Radiometric _____
ENTER 20 days for each additional survey using same grid.	--Other _____ Geological _____ Geochemical _____

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

DATE: Oct 20/81 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications 63,1102

<u>Previous Surveys</u>			
<u>File No.</u>	<u>Type</u>	<u>Date</u>	<u>Claim Holder</u>

<u>MINING CLAIMS TRAVERSED</u> <u>List numerically</u>	
<u>KRL</u> 509420	
(prefix) K 509421	
K 509422	
K 509423	
K 509424	
K 509425	
K 509426	
K 509427	
K 509428	
K 509429	
K 509430	
K 509431	
K 533135	
K 533136	
K 533137	
K 533138	
K 533139	
K 509691	
K 509692	
K 509693	
K 509746	
TOTAL CLAIMS <u>25</u>	

If space insufficient, attach list

OFFICE USE ONLY

APPENDIX

To be attached to Technical Data Statement filed by Sherritt
Gordon Mines Limited and Rodney Knappett on October 21, 1981

K 509747
K 509748
K 509749
K 509750 .

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OCT 26 1981

MINING LANDS SECTION

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 2952 Number of Readings 2952
Station interval 50' Line spacing 200'
Profile scale 1" = 20%
Contour interval 100

MAGNETIC

Instrument Scintrex Fluxgate (vertical magnetometer) MF-2
Accuracy - Scale constant 10 gammas on 1000 scale
Diurnal correction method Scintrex MB/2 base station plus looping
Base Station check-in interval (hours) between base line
Base Station location and value on base line

ELECTROMAGNETIC

Instrument
Coil configuration
Coil separation
Accuracy
Method: [] Fixed transmitter [] Shoot back [x] in line [] Parallel line
Frequency
Parameters measured (specify V.I. F. station)

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location
Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

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

2.4225

1983 08 10

2.4225

Mining Recorder
Ministry of Natural Resources
Ontario Government Building
Box 324
Red Lake, Ontario
POV 2M0

Dear Sir:

RE: Geophysical (Magnetometer) Survey on Mining Claims
KRL 509420 et al in the Township of Honeywell.

The Geophysical (Magnetometer) Survey assessment work credits as listed with my Notice of Intent dated July 13, 1983 have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380.

D. Kinvig:sc

cc: Sherritt Gordon Mines Ltd
Toronto, Ontario

cc: Donald Clement
Dryden, Ontario

cc: Rodney Knappett
Rexdale, Ontario.

cc: Resident Geologist
Red Lake, Ontario

1983 07 13

Recorded Holder RODNEY KNAPPETT
Township Area SHABUMENI LAKE

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer <u>40</u> _____ days Radiometric _____ days Induced polarization _____ days Section 86 (18) _____ days Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant. 77(16)	KRL 509421 to 23 inclusive 509425 to 31 " 509692-93 509746 to 50 inclusive 533135 to 38 "

Special credits under section ~~86(15a)~~ for the following mining claims

20 days Mag KRL 509420 509424 509691

No credits have been allowed for the following mining claims

<input checked="" type="checkbox"/> not sufficiently covered by the survey <input type="checkbox"/> Insufficient technical data filed KRL 533139

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; ~~Section 86(18) 60~~:
77(19)



Ministry of
Natural
Resources

Aug 3, 1983

1983 07 13

Your file:

Our file: 2.4225

Mining Recorder
Ministry of Natural Resources
Ontario Government Building
Box 324
Red Lake, Ontario
POV 2M0

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

D. Kinvig:sc

cc: Sherritt Gordon Mines Ltd
Toronto, Ontario

cc: Donald Clement
Dryden, Ontario

Rodney Knappett
Rexdale, Ontario

cc: G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

Encls:



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1983 07 13

2,4225

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



Ontario

2.4225

Ministry of Natural Resources

Notification of recording of assessment work credits

Lands Administration Branch Mining Lands Section Ministry of Natural Resources Room 1617, Whitney Block Queen's Park, Toronto M7A 1W3

RECEIVED

DEC 29 1982

MINING LANDS SECTION

Date of recording of work: June 30, 1981

Recorded holder: Rodney Knappett

Address: 157 Jeffcoat Drive, Rexdale, Ontario

Township or Area: M.2665 Shabumeni Lake

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	KRL.509420-509431 inclusive. <i>See revised work statement.</i> <i>D.K.</i>
Electromagnetic _____ days	
Magnetometer 40 _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Section 86 (18) _____ days	
Geological _____ days	
Geochemical _____ days	
Mar. days <input type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>	

Notice to recorded holder:

- Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.
- Reports and maps are being forwarded to the Lands Administration Branch with this letter.

Ronna F. Pento
Acting Mining recorder Ronna F. Pento
c.c. Donald Clement
P.O. Box 723
DRYDEN, Ontario

792 (6/77)

LA. 065

NE

These claims have since been cancelled October 28, 1981.

Art Knappett

MINING RECORDER

GEOTECHNICAL REPORT APPROVAL

Jan 6/83

MINING LANDS COMMENTS:

*no notations
at Honeywell*

GEOPHYSICS *MR Barlow*

DATE: <i>May 11 / 83</i>	<input checked="" type="checkbox"/>	APPROVED
SIGNATURE: <i>R Barlow</i>		WISH TO SEE AGAIN WITH CORRECTION

GEOLOGY - EXPENDITURES

DATE:		APPROVED
SIGNATURE:		WISH TO SEE AGAIN WITH CORRECTIONS

GEOCHEMISTRY

L.D.

DATE:		APPROVED
SIGNATURE:		WISH TO SEE AGAIN WITH CORRECTION

RETURN TO F. W. MATTHEWS, ROOM 6452 WHITNEY BLOCK (5-1380)

October 30, 1981

2.4225

Mining Recorder's Office
Ministry of Natural Resources
808 Robertson Street,
Kenora, Ontario
P9N 3X7

Dear Sir;

We have received reports and maps for a Geophysical (Magnetometer) survey submitted under Special Provisions (credit for Performance and Coverage) on mining claims M/509420 et al in the Township of Honeywell.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone 816/965-1380

Joan Skura

cc: Sherritt Goudon Mines Limited
Dryden, Ontario



Ontario

Ministry of
Natural
Resources

Notification of recording
of assessment work credits

Completed

Lands Administration Branch
Mining Lands Section
Ministry of Natural Resources
Room 1617, Whitney Block
Queen's Park, Toronto
M7A 1W3

RECEIVED

JAN 5 1983

MINING LANDS SECTION

Date of recording of work: September 14, 1981
Recorded holder: Sherritt Gordon Mines Limited
Address: Box 28, Commerce Court West, Toronto, Ontario M5L 1B1
Township or Area: M.2665 Shabumeni Lake

Type of survey and number of Assessment days credit per claim.	Mining claims
Geophysical	KRL.509691-509693 incl., KRL.533135-533139 incl., KRL.509746-509750 incl.
Electromagnetic.....days	
Magnetometer.....40.....days	
Radiometric.....days	
Induced polarization.....days	
Section 86 (18).....days	
Geological.....days	
Geochemical.....days	
Man days <input type="checkbox"/>	Airborne <input type="checkbox"/>
Special provision <input checked="" type="checkbox"/>	Ground <input checked="" type="checkbox"/>

Notice to recorded holder:

- Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 90 days from the date of recording of this work.
- Reports and maps are being forwarded to the Lands Administration Branch with this letter.

Acting

Mining recorder *Ronna P. Pento*

c.c.

Donald Clewnt
P.O. Box 723
DENYON, Ontario

SHERITT GORDON MINES LIMITED / MINING AND MILLING DIVISION

Lynn Lake, Manitoba, Canada, ROB OW0 / Telex 0766 220

P.O. BOX 723 DRYDEN, ONTARIO P8N 2Z4 (807)223-5365

October 21, 1981

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OCT 26 1981

MINING LANDS SECTION

E. F. Anderson
Director
Lands Management Branch
Whitney Block
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Sir:

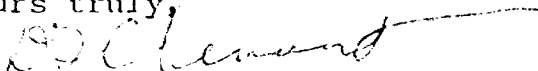
Please find enclosed duplicate copies of reports and maps for a geophysical survey applied for assessment against 25 claims in the Shabumeni Lake Area (M-2665). The amount of assessment was calculated according to Special Provisions with 40 days/claim for line cutting and a magnetometer survey. Also I would like to add that assay determination costs of \$1,260.97 for assay yields of 84 days work according to section 86(18), (Report of work Sept. 8, 1981 by Frank M. Forsgren) have been applied at 12 day each on claims: 509691; 509421; 509422; 509423; 509424; 533137.

I hope these submissions will suffice to fulfill the coverage needed due to the unavailability of the geophysics crew to operate water extensions of the forementioned claims.

Please note that claims 509420 to 509431 inclusive are recorded under licence # A35220, with claims 509691 to 509693 inclusive K533135 to 533139 inclusive, and K 509746 to 509750 inclusive are recorded under licence #T-842.

Thank you.

Yours truly,



Don Clement

Sherritt Gordon Mines Limited
Dryden Operation

DC:jl

	Mag.		Mag.			Mag.
KRL-509420	1/2		509420	1/2	2.4225	
21	1/4		92	✓	KRL:533136	✓
22	1/4		93	✓	37	✓
23	1/4		509446	✓	38	✓
24	1/2		47	✓	533139	0
25	✓		48	✓		
26	✓		49	✓		
27	✓		50	✓		
28	✓		533135	✓		
29	✓					
30	✓					
509431	✓	*- due to good overall coverage, I let the 1/4's go.				
						D.K.

LAKE

CB 5

SWAIN

CB 509423

CB 509422

CB 509421

CB 509420

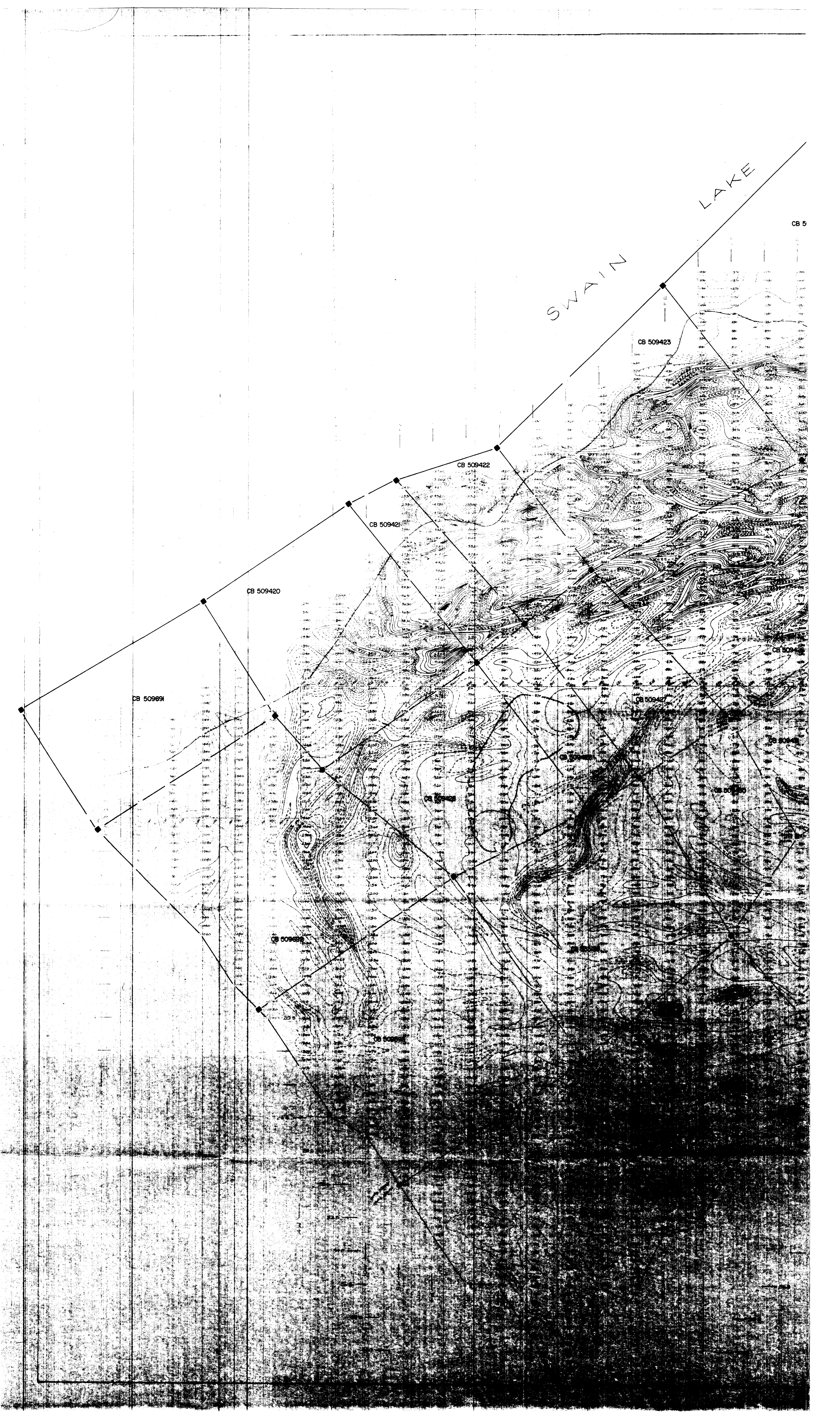
CB 509691

CB 509424

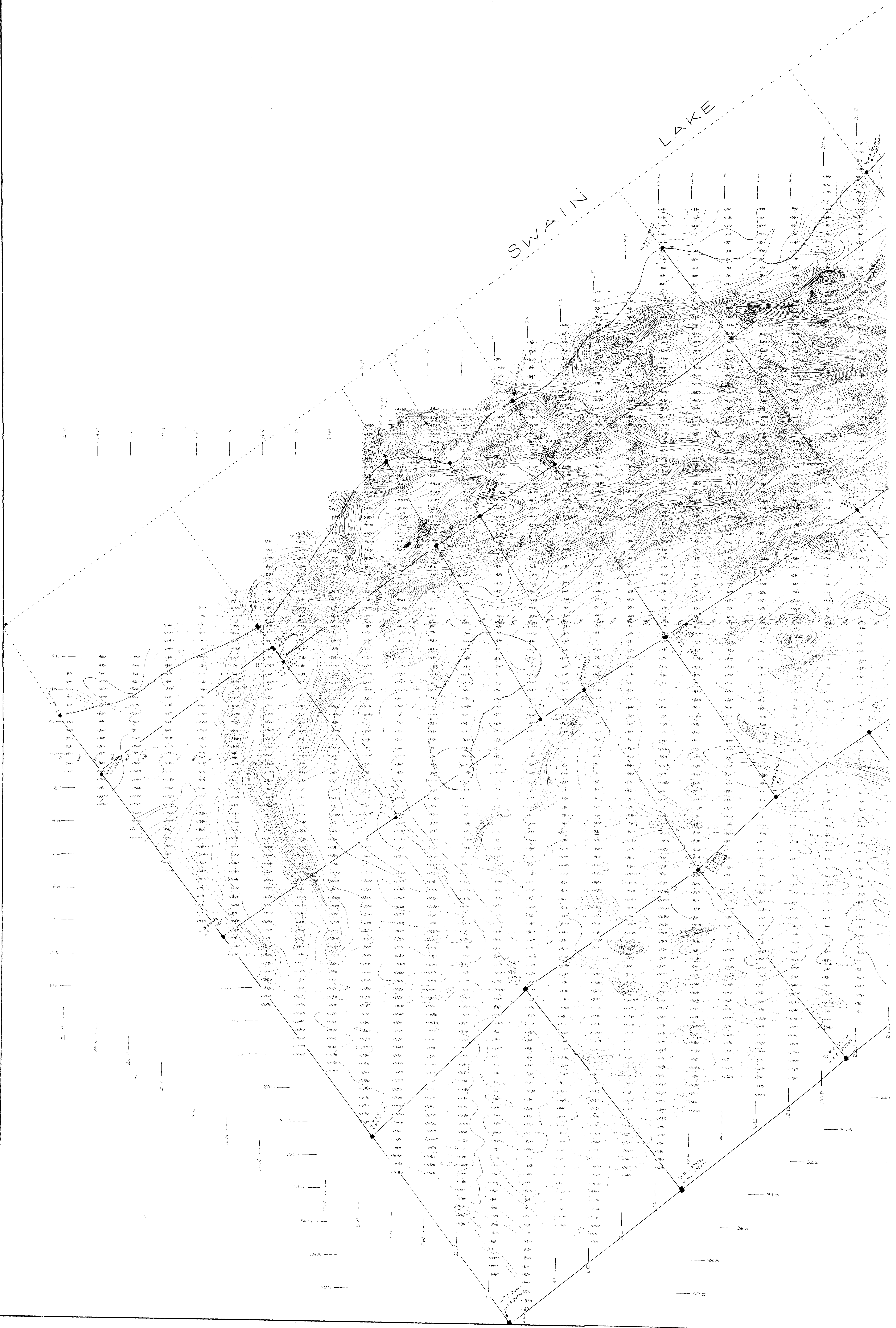
CB 509425

CB 509689

CB 509690



SWAIN LAKE



SWAIN LAKE

CB 53337

CB 509424

CB 509423

CB 53338

CB 53339

CB 509425

CB 509426

CB 53336

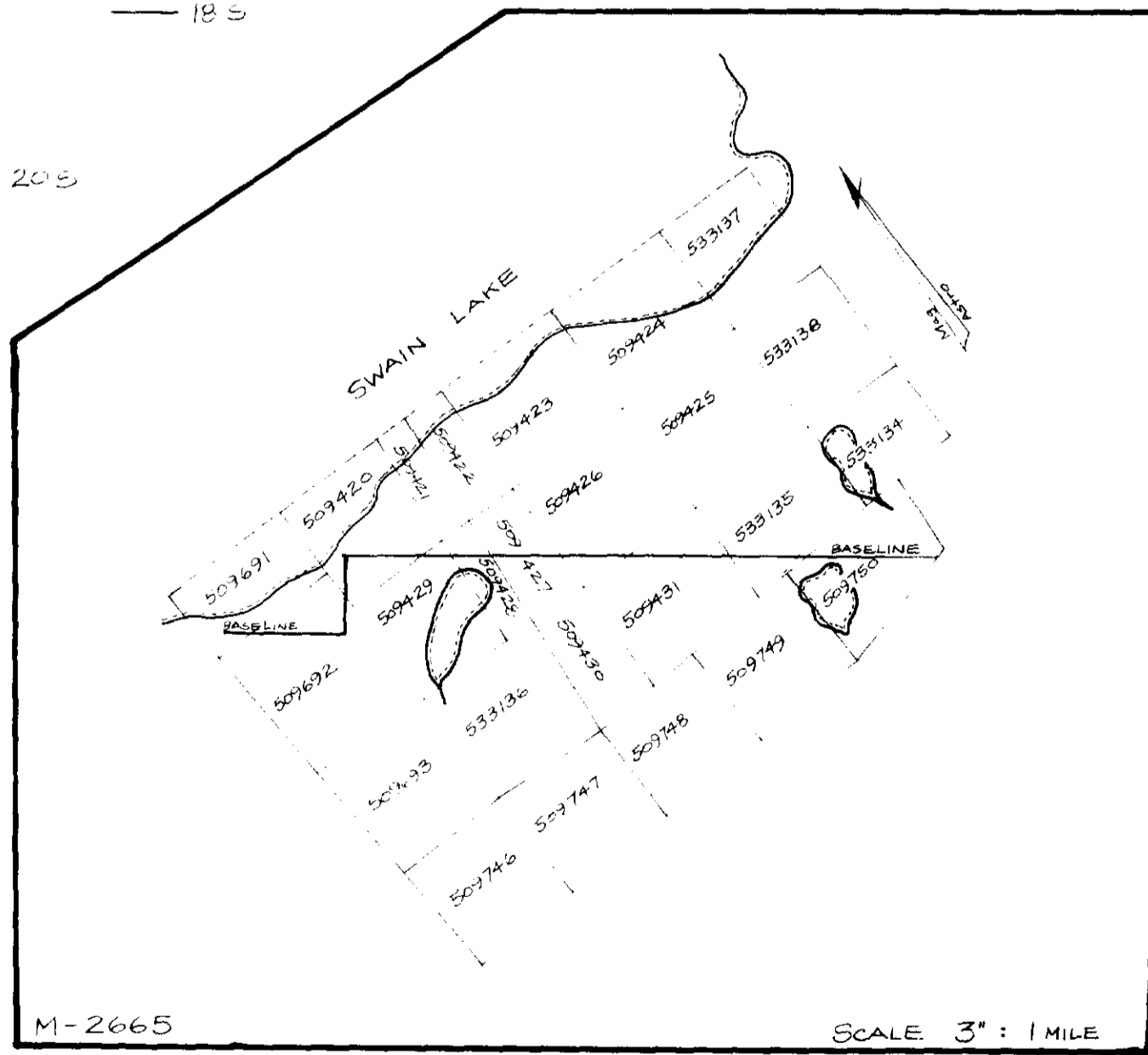
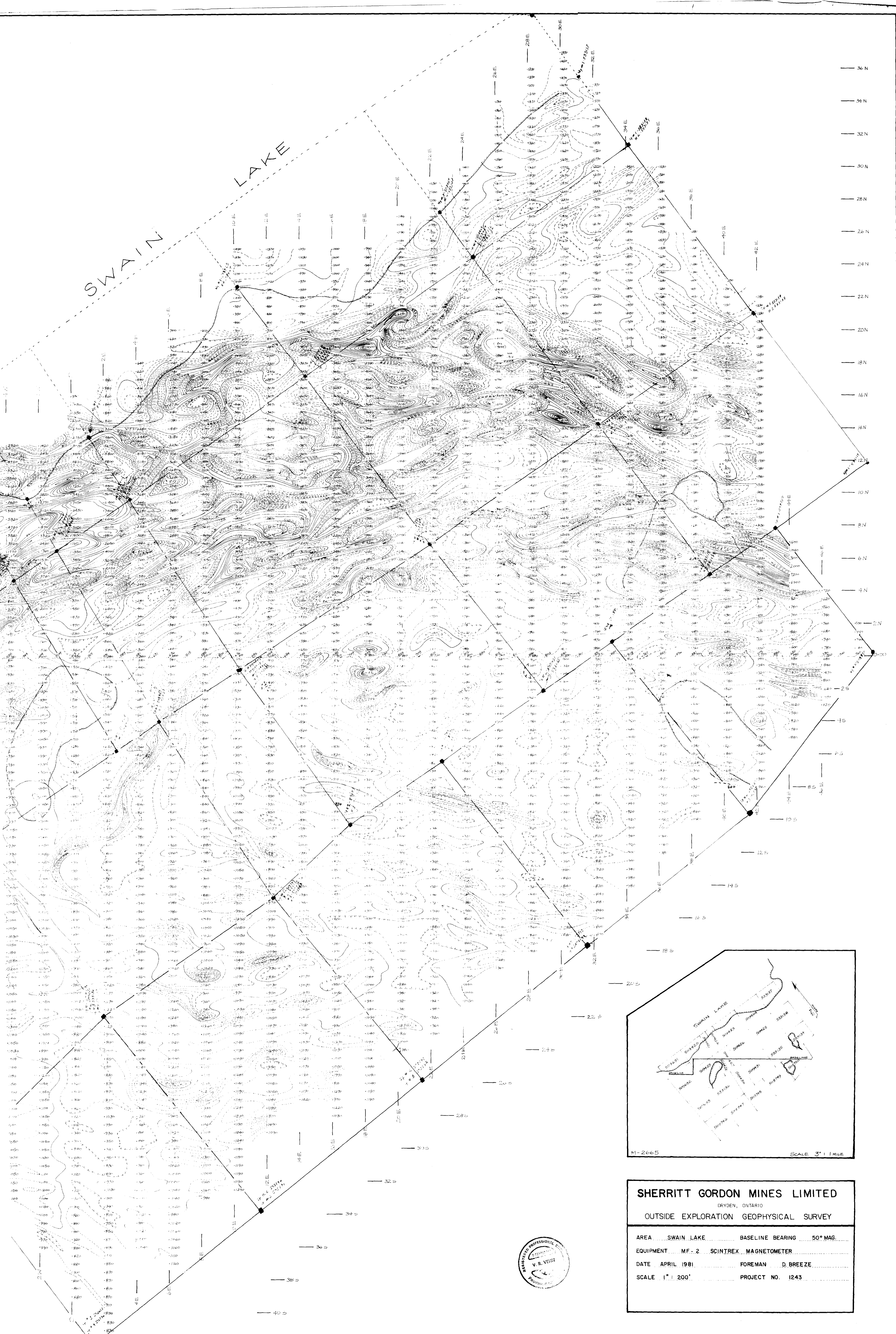
CB 509750

CB 509751

SHAW-WALKER ENGINEERING LIMITED

CONSTRUCTION SURVEY





SHERRITT GORDON MINES LIMITED
 DRYDEN, ONTARIO
 OUTSIDE EXPLORATION GEOPHYSICAL SURVEY

AREA	SWAIN LAKE	BASLINE BEARING	50° MAG.
EQUIPMENT	MF-2	SCINTREX	MAGNETOMETER
DATE	APRIL 1981	FOREMAN	D. BREEZE
SCALE	1" = 200'	PROJECT NO.	1243

