



52J02SE8762 2.210 SQUAW LAKE

010

SELCO EXPLORATION COMPANY LIMITED

REPORT - E.M. SURVEY

Claims: 211642-46 incl.,
211653-55 incl.,
211662-71 incl.,
227029
227349-51 incl.,
227358-59
227361-66 incl.,
243577-92 incl.,
243865
243867-68

PATRICIA MINING DIVISION

I. F. Downie.

December 1970

INTRODUCTION

This report describes results of a ground electromagnetic survey undertaken in March/April 1970 on 49 claims in the region of East Bay of Sturgeon Lake, Patricia Mining Division.

LOCATION AND ACCESS

The claims lie on or immediately adjacent to East Bay of Sturgeon Lake along its length, and extend eastward for about one mile. The claims may be reached by boat or snowmobile, and by float or ski-equipped aircraft - depending on the season.

CLAIMS

The property consists of 49 contiguous unpatented claims: Nos. 211642-46 incl., 211653-55 incl., 211662-71 incl., 227029, 227349-51 incl., 227358 and 227359, 227361-66 incl., 243577-92 inc., 243865 and 243867 and 243868.

SURVEY PROCEDURE

(1) Line-Cutting

A control grid was cut over the claims: an easterly trending base-line with north-south trend offsets at intervals of 400 feet for a total of 46 1/2 miles of lines.

Offsets have been picketed at intervals of 100 feet.

(2) E.M. Survey

The survey was conducted by Geosearch Limited under contract to Selco Exploration Company Limited. Supervision was provided by R. Lee of Geosearch, and the survey was performed in late March and early April, 1970.

The instrument used in the course of the survey was an A.B.E.M. Minigun: horizontal loop equipment which measures in-phase and quadrature voltages induced at the receiver as a percentage of like quantities induced in a reference coil.

The frequency employed was 3520 c/sec., and separation of coils kept constant by reference cable 200 feet in length. Readings were taken at intervals of 100 feet and are depicted with conductor axes on accompanying plan 70-33 [in three parts].

...cont'd/

RESULTS

(i) An extremely long, strong conductor beginning at 3S, L.48W, and continuing uninterrupted to 3-4N, L.28E. In-phase and quadrature values attain -82% and -1% [L.44W 2+50S]; values generally cover an in-phase ratio -55% or greater [numerically].

The source of this conductor, as observed in bedrock, is a graphitic horizon.

(ii) A conductor parallel and probably subsidiary to (i) extending from 1+50S, L.44W to 3N, L.32W. Anomaly peak is at 1+50S, L.40W where in-phase and quadrature ratios of -90% and -2% are found. The source is unknown, but may well be graphite.

(iii) From 11+50S, L.56W to 8+50S, L.48W: an anomaly which shows considerable width and strength on L.48W. This is likely to be a bedrock conductor; source unknown.

(iv) Two weaker conductors lying north and west of (iii) but displaying good in-phase to quadrature ratios. Both may represent weak bedrock features.

(v) From L.20W at 4S to L4E at 0+50S, a weak/good conductor subsidiary to (i). Probably due to some weak, bedrock feature: a thin graphitic horizon (?).

(vi) L.20W at 7S and L.16W at 5+50S: a conductor giving good ratios on L.16W. Presumably a bedrock source gives this anomaly.

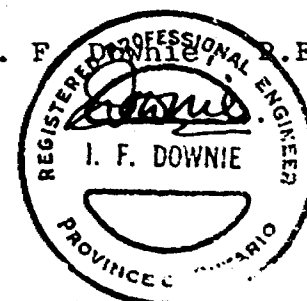
(vii) A long conductor, but weak except at its west end. It extends from L.28E at B.L. to L.44E at 4+50N. This is thought to be the faulted extension of (i).

(viii) A long, discontinuous anomaly from L.68E at 3S to L.136E at 3+50N and still open eastward, which in itself may be the discontinuous extension of (i)-(vii). Ratios are poor to excellent. In-phase and quadrature give ratios of -68% and -2% on L.76E.

(ix) On lines 124E and 128E at 4S, a conductor giving good ratios on L.124E. The conductor presumably represents a bedrock feature but the source is unknown.

A winter drilling programme will be undertaken in order to explore some of the unexplained anomalies.

I. F. Downie P. Eng.



PERFORMANCE & COVERAGE CREDITS

ASSESSMENT WORK DETAILS

Township or Area SQUAW LAKE M-1904

Type of Survey ELECTROMAGNETIC
A separate form is required for each type of survey

Chief Line Cutter M. TREMBLAY
Name

or Contractor SIOUX LOOKOUT, ONTARIO
Address

Party Chief R. LEE - GEOSSEARCH LTD.
Name

77 YORK ST., TORONTO, ONTARIO
Address

Consultant _____
Name

_____ Address

COVERING DATES

Line Cutting JANUARY, 1970

Field March and April, 1970
Instrument work, geological mapping, sampling etc.

Office MAY, 1970

INSTRUMENT DATA

Make, Model and Type ABEM-MINIGUN, HORIZONTAL LOOP

Scale Constant or Sensitivity 1% PER SCALE DIVISION
Or provide copy of instrument data from Manufacturer's brochure.

Radiometric Background Count _____

Number of Stations Within Claim Group 2264

Number of Readings Within Claim Group 2264

Number of Miles of Line cut Within Claim Group 46 1/2

Number of Samples Collected Within Claim Group _____

CREDITS REQUESTED

	<u>20 DAYS</u> per claim	<u>40 DAYS</u> per claim	Includes (Line cutting)
Geological Survey	<input type="checkbox"/>	<input type="checkbox"/>	
Geophysical Survey	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Show Check ✓
Geochemical Survey	<input type="checkbox"/>	<input type="checkbox"/>	

MINING CLAIMS TRAVERSED

List numerically

PA	211642	
	211643	
	211644	
	211645	
	211646	
	211653	
	211654	
	211655	
	211662	
	211663	
	211664	
	211665	
	211666	
	211667	
	211668	
	211669	
	211670	
	211671	
	227029	
TOTAL		<u>49</u>

900



If space insufficient, attach list

Send in duplicate to:
 FRED W. MATTHEWS
 SUPERVISOR-PROJECTS SECTION
 DEPARTMENT OF MINES &
 NORTHERN AFFAIRS
 WHITNEY BLOCK
 QUEEN'S PARK
 TORONTO, ONTARIO

DATE DECEMBER 7, 1970

SIGNED J. A. Shippen

Performance and coverage credits do not apply to airborne surveys

PA 227349

227350

227351

227358

227359

227361

227362

227363

227364

227365

227366

243577

243578

243579

243580

243581

243582

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243586

243587

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243590

243591

243592

243865

243867

243868

AREA 807
TELEPHONE 737-2100

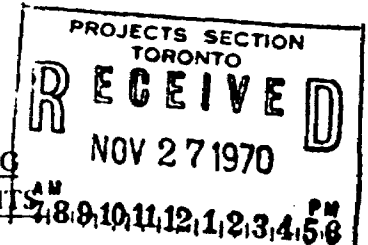


DEPARTMENT OF MINES AND NORTHERN AFFAIRS
MINING LANDS BRANCH
OFFICE OF THE MINING RECORDER



Fred W. Matthews,
Supervisor, Projects Section,
Ontario Department of Mines,
Whitney Block,
Parliament Buildings, Toronto.

Box 669
Sioux Lookout, Ontario
November 24, 1970



NOTIFICATION OF RECORDING
OF ASSESSMENT WORK CREDITS

Date of Recording of Work November 6, 1970
Recorded Holder Selco Exploration Company Limited
..... 6th Floor - 55 Yonge St. Toronto, Ontario
..... (address)
Township or Area Squaw Lake M-1904

Type of Survey and number of Assessment Days Credits per claim
GEOPHYSICAL. Airborne <input type="checkbox"/> Ground <input checked="" type="checkbox"/>
Magnetometer days
Electromagnetic 40 days
Radiometric days
..... days
GEOLOGICAL days
GEOCHEMICAL days
SECTION 84 (14) days

Mining Claims
Pa-211642-46 Incl.
211653-55 Incl.
211662-71 Incl.
227029
227349-51 Incl.
227358-59 Incl.
227361-66 Incl.
243577-92 Incl.
243865
243867-68 Incl.

NOTICE TO RECORDED HOLDER

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

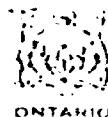
W. Buchanan

.....
Mining Recorder.

c.c. Selco Exploration Company Limited
6th Floor - 55 Yonge Street
Toronto, Ontario

Mr. J. A. Gribben

AREA CODE -- 416
TELEPHONE -- 365-6918



WHITNEY BLOCK
QUEEN'S PARK
TORONTO, ONT.

DEPARTMENT OF MINES AND NORTHERN AFFAIRS
MINING LANDS BRANCH

April 21st, 1971.

Mr. W.A. Buchan,
Mining Recorder,
Court House,
Sioux Lookout, Ontario.

Re: Mining Claims PA. 211642 et al,
Squaw Lake Area. File No. 2.210

Dear Sir:

The Geophysical (Electromagnetic) assessment work credits as listed with my Notice of Intent dated April 6th, 1971, have been approved as of the date above. Please inform the recorded holder and so indicate on your records.

Yours very truly,

A handwritten signature in cursive script, appearing to read "Fred W. Matthews".

Fred W. Matthews,
Supervisor,
Projects Section.

c.c. Selco Exploration Co., Ltd.,
6th Floor, 55 Yonge Street,
Toronto, Ontario.

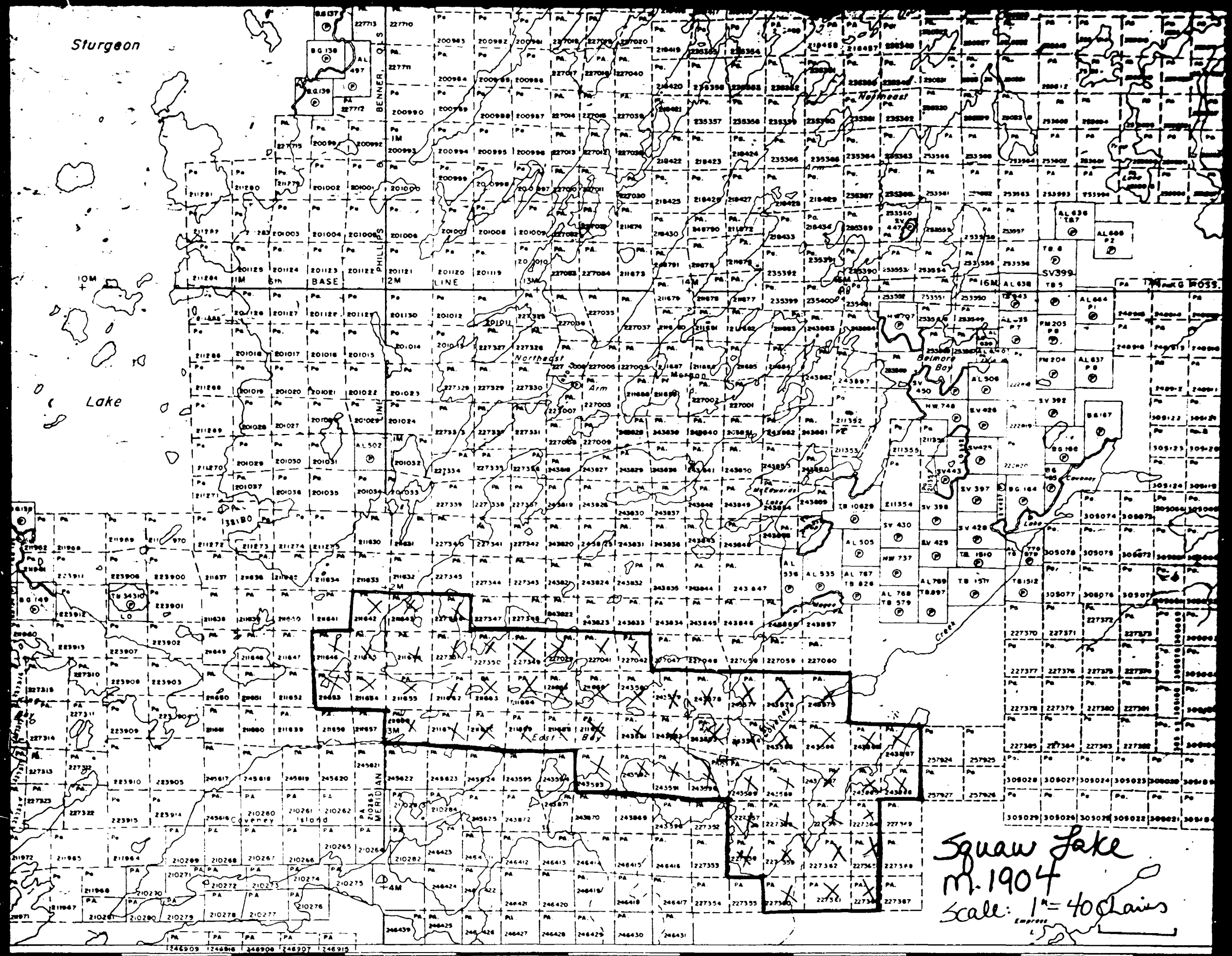
Attn: Mr. J.A. Gribben.

c.c. Mr. H. L. King,
Resident Geologist,
808 Robertson Street,
Kenora, Ontario. ✓

FWM/mr

Sturgeon

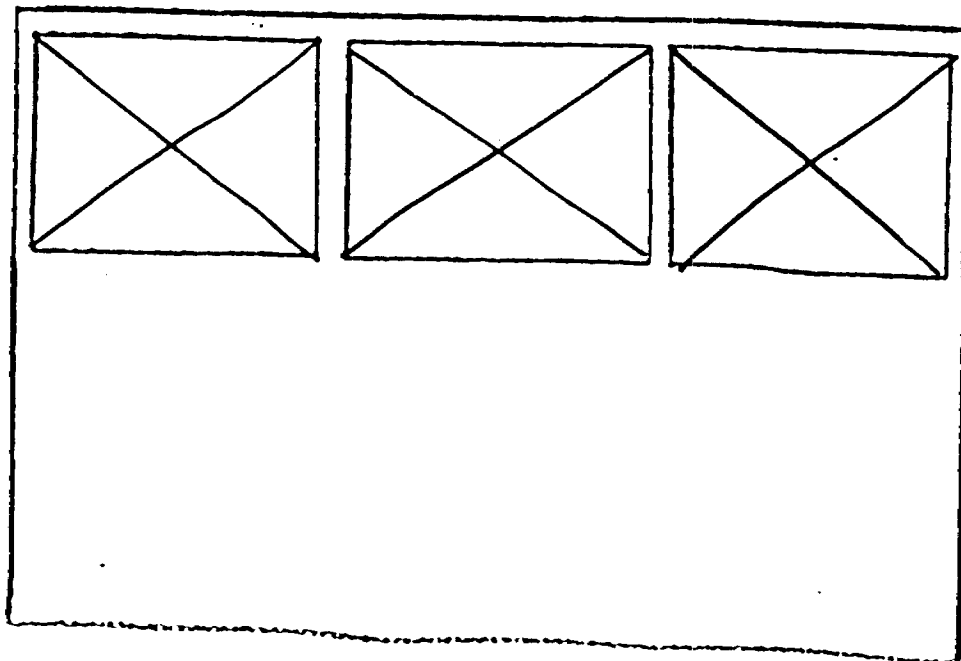
Lake

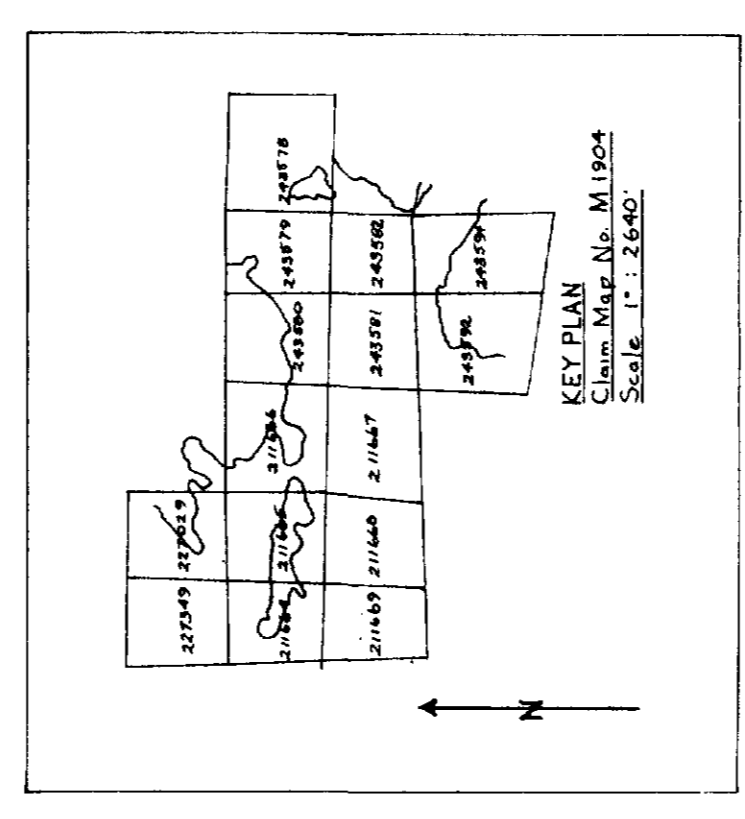
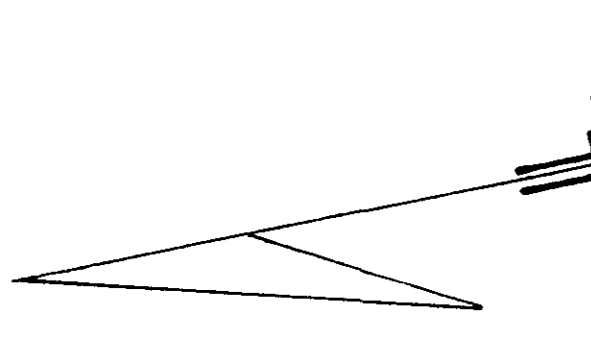


Squaw Lake
 M. 1904
 Scale: 1" = 40 chains

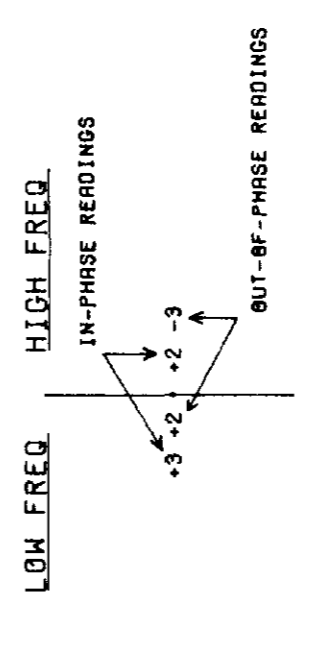
SEE ACCOMPANYING
MAP(S) IDENTIFIED AS
52J/02SE-0026, #1-3

LOCATED IN THE MAP
CHANNEL IN THE FOLLOWING
SEQUENCE (X)

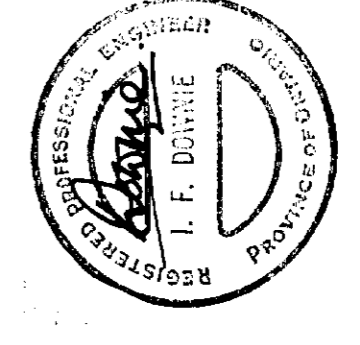




LEGEND



FREQUENCY: 3520 HZ AND 860 HZ
COIL INTERVAL: 200 FT. (EXCEPT AS NOTED)
CONDUCTOR: STRONG MAGNETITE



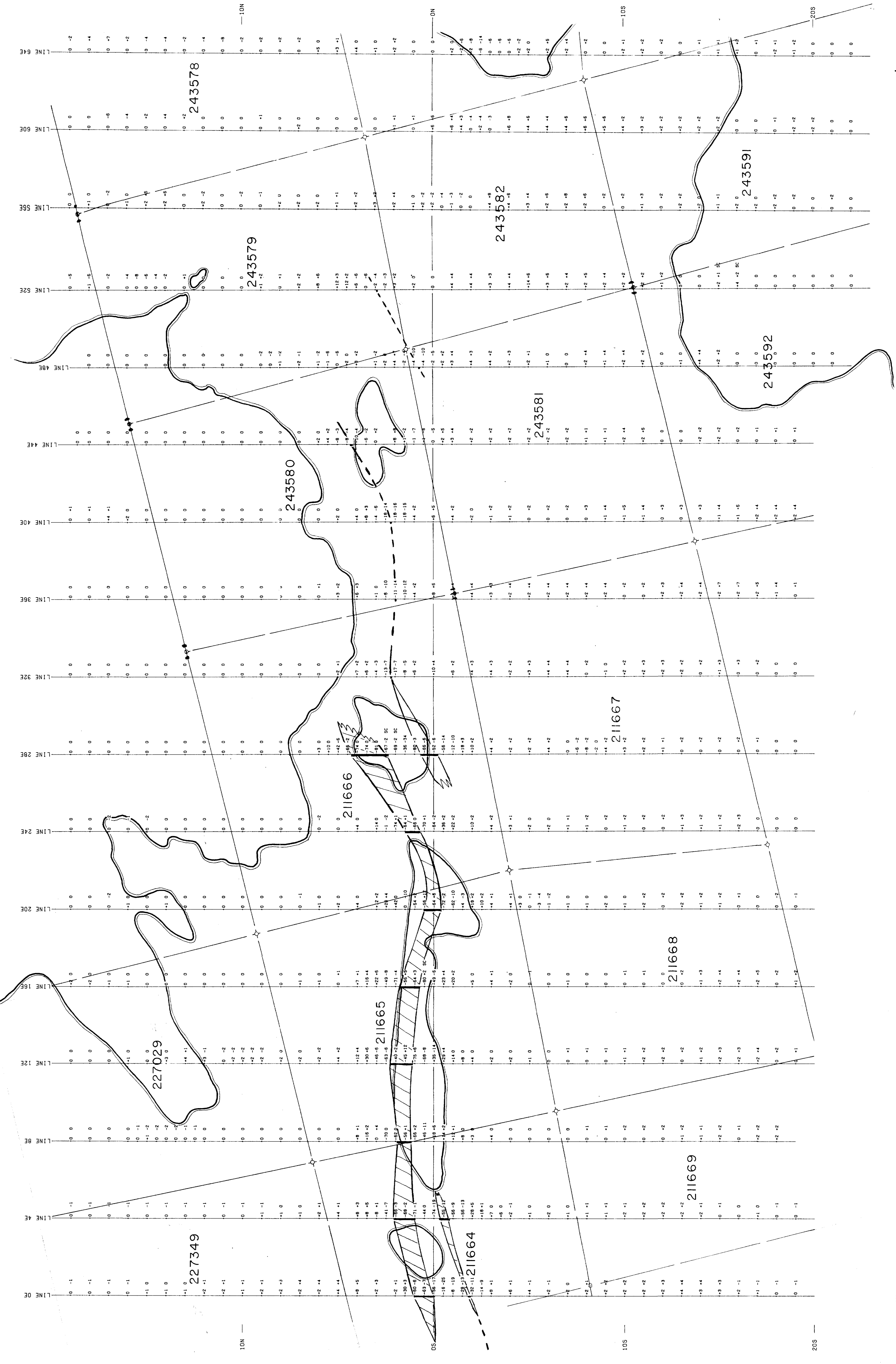
ELECTROMAGNETIC SURVEY
GEOSEARCH CONSULTANTS LTD.
FOR
SELCO EXPLORATION CO. LTD.

STURGEON LAKE AREA, ONTARIO
DATE: May 1979
APPROVED: *[Signature]*

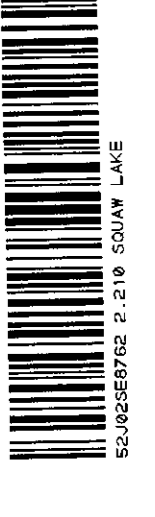
GRID B
SHEET 1
SCALE: 1 INCH TO 200 FT.
D 210 70-33
SE 381(A)

JOINS SHEET 3

JOINS SHEET 2



525/02SE 0026 #1



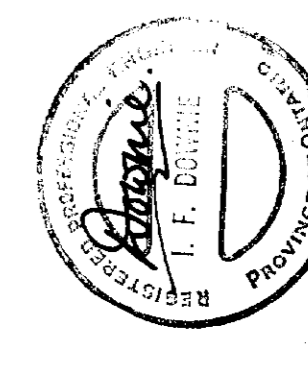


TRANSFORMED 2.5P 300M LANE

210

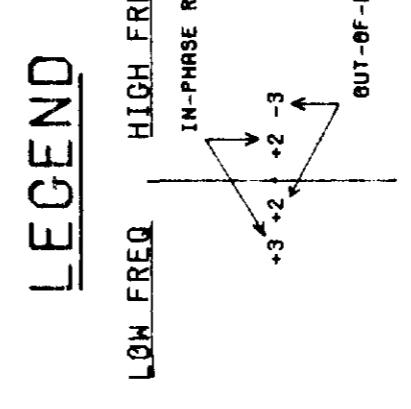
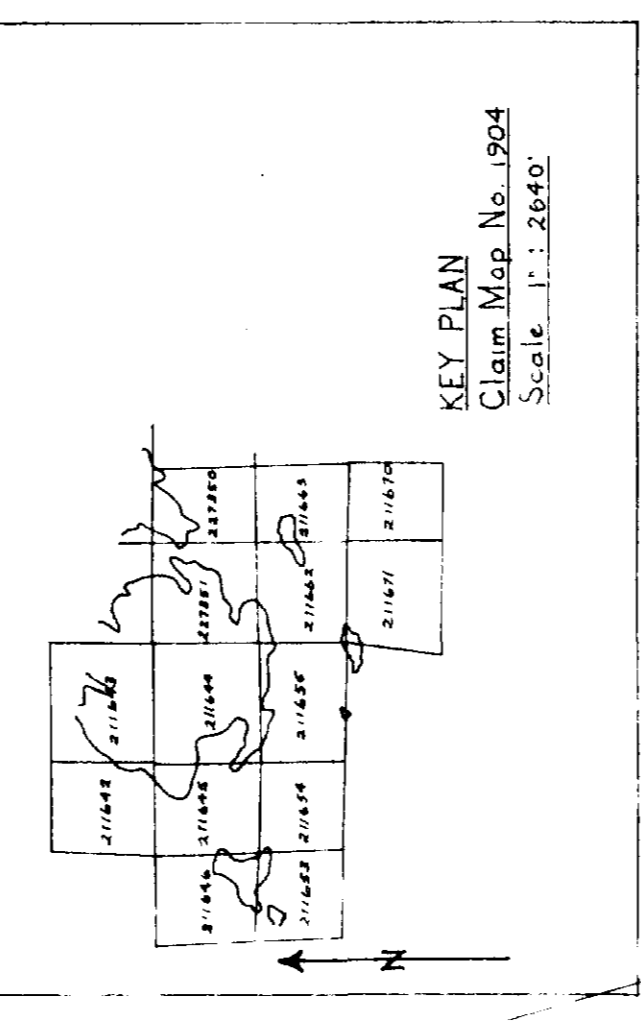
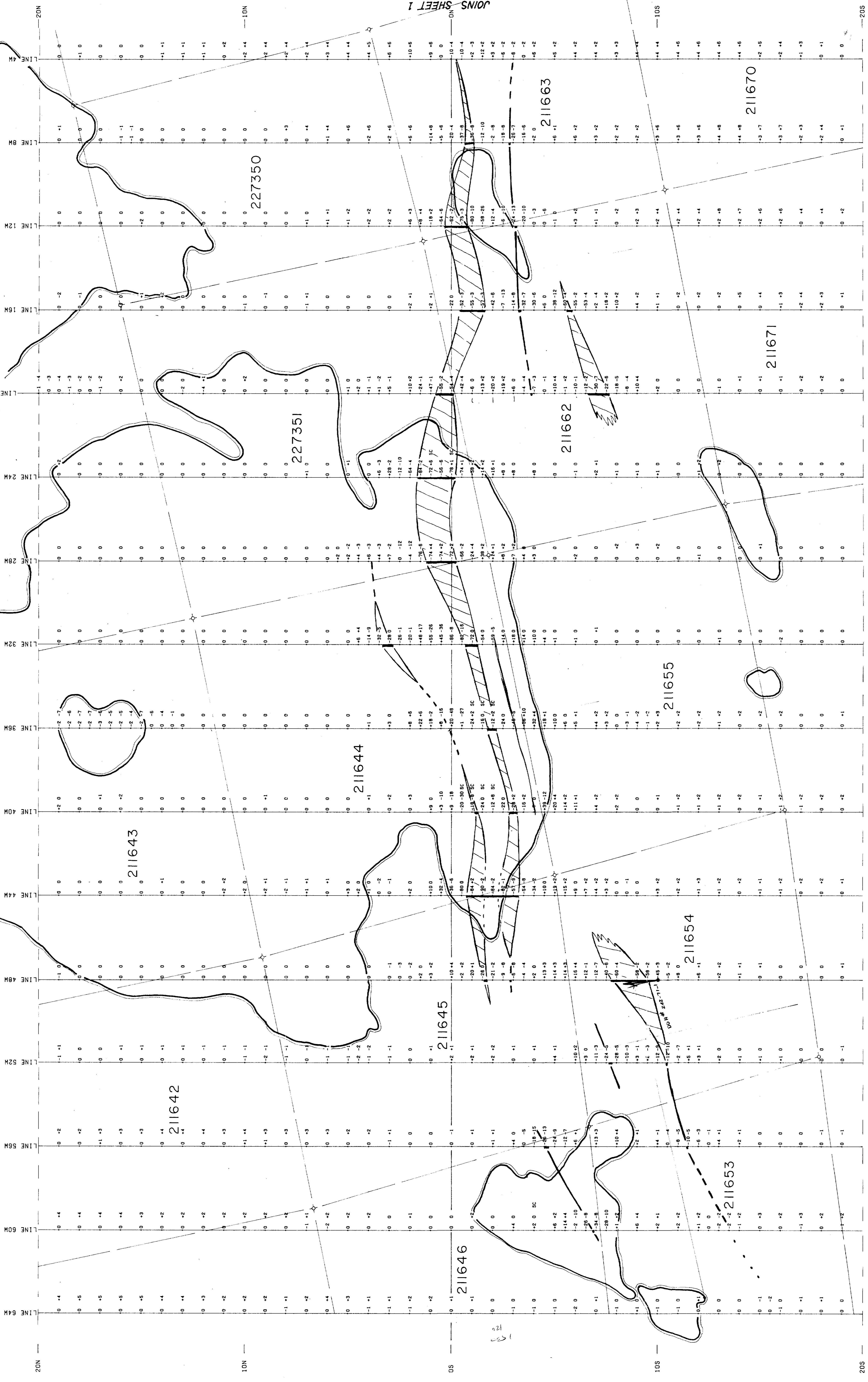
525/02 SE 0026 #2

70-33
SE 382(A)



ELECTROMAGNETIC SURVEY
FOR
GEOSEARCH CONSULTANTS LTD.
SEICO EXPLORATION CO. LTD.

STURGEON LAKE AREA, ONTARIO
DATE: May, 1976
APPROVED: *[Signature]*

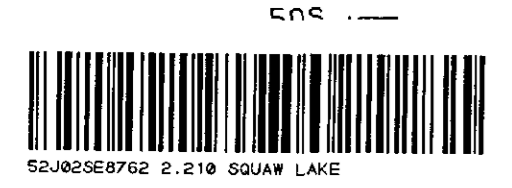
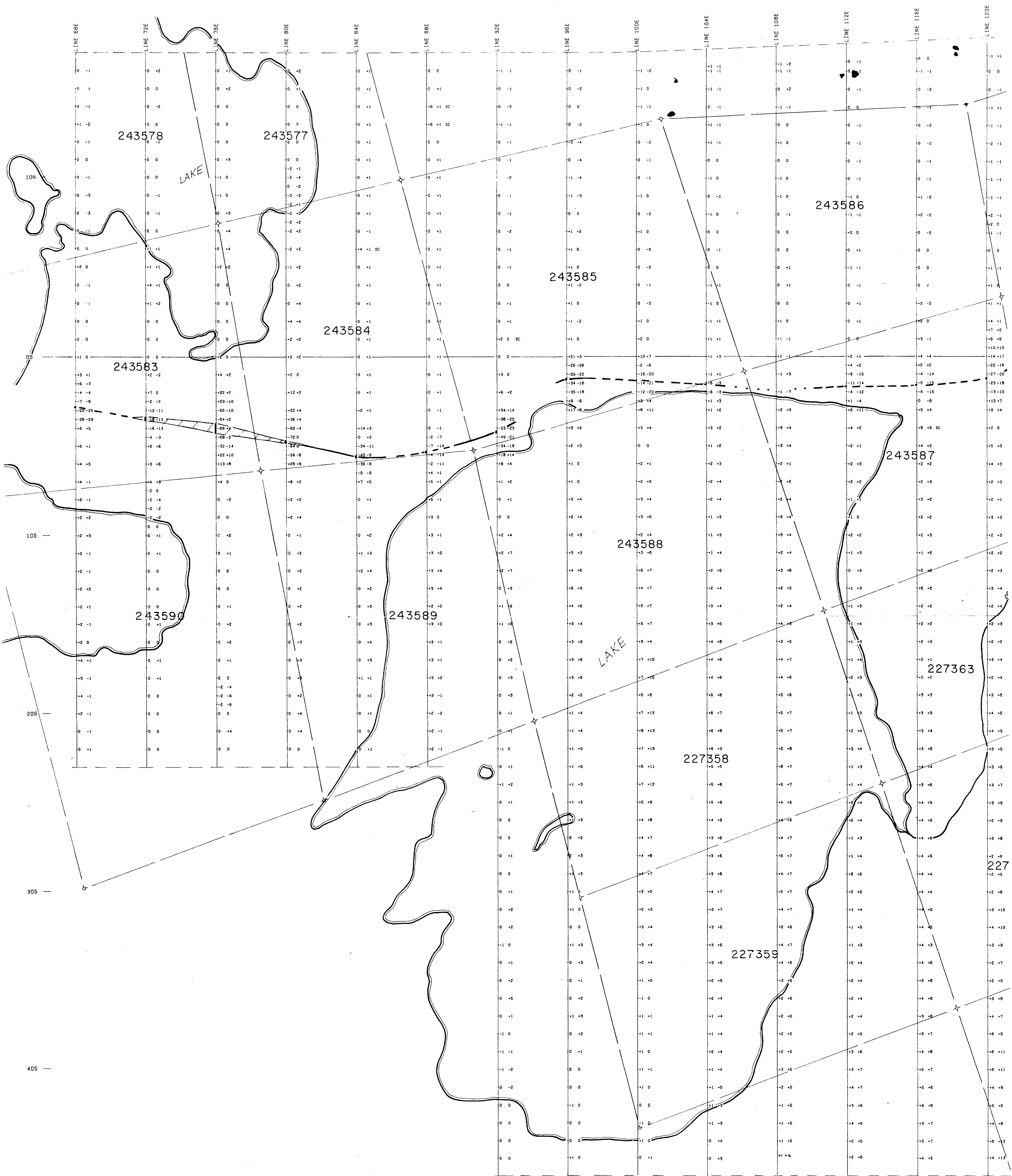


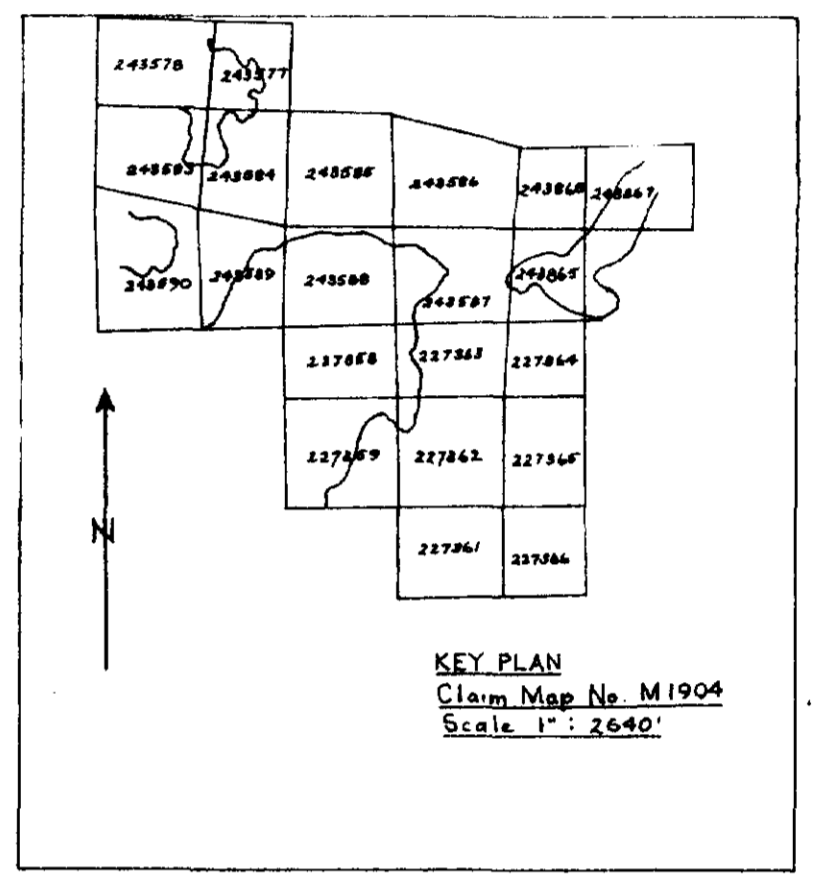
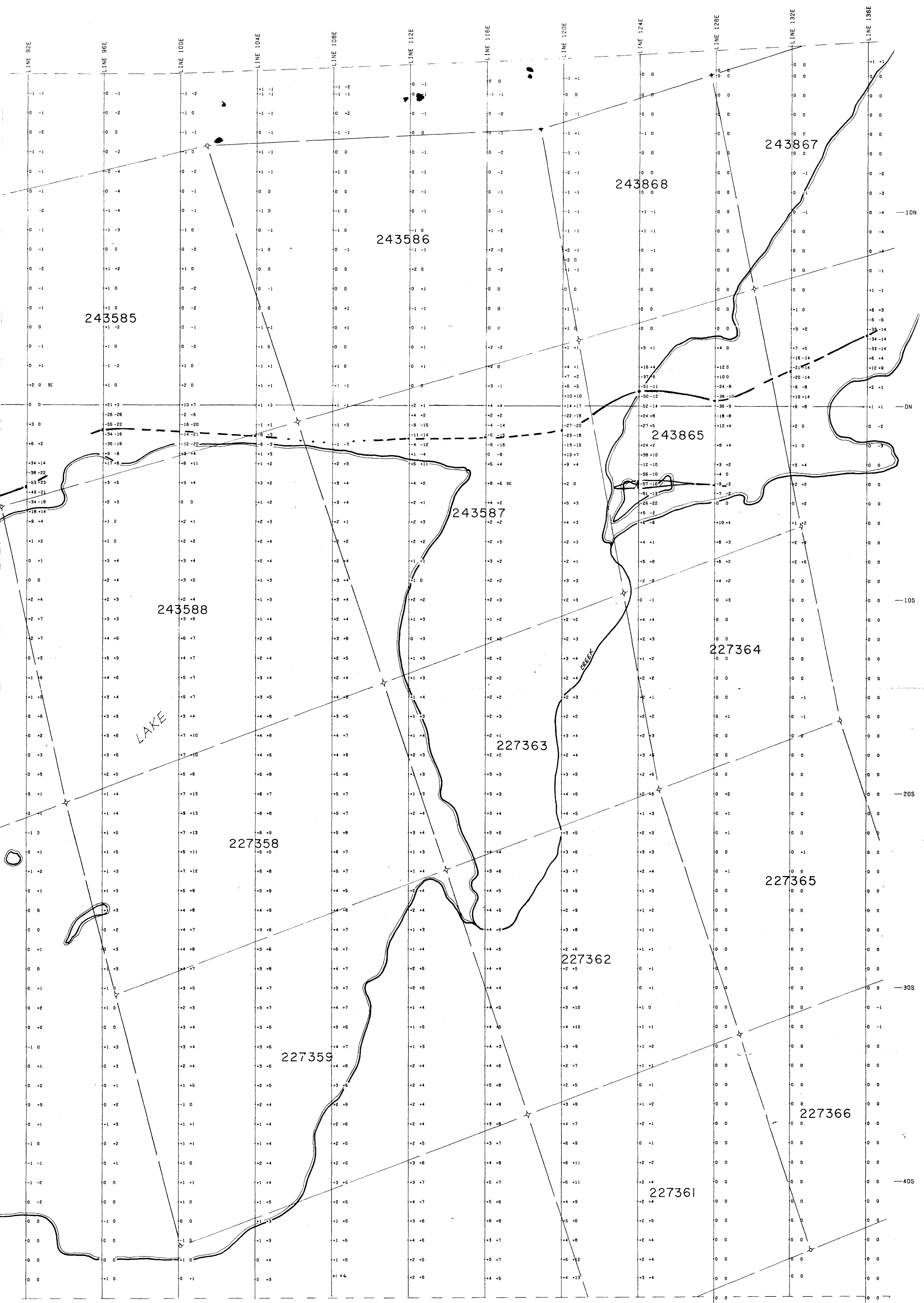
FREQUENCY: 3520 HZ AND 880 HZ
 COIL INTERVAL: 200 FT. - EXCEPT AS NOTED
 CONDUCTOR: STRONG - WEAK - INDEFINITE

JOINS SHEET 1

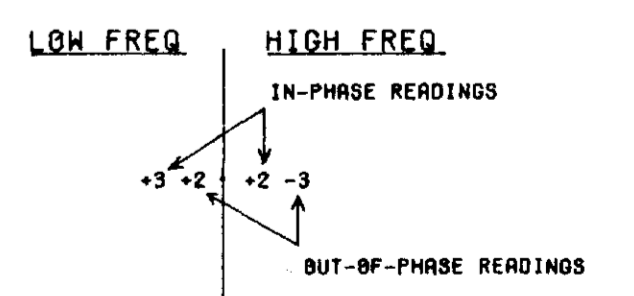
GRID 'B'
SHEET 2

JOINS SHEET 1





LEGEND



FREQUENCY: 3520 HZ AND 880 HZ
 COIL INTERVAL: 200 FT. (EXCEPT AS NOTED)
 CONDUCTOR: STRONG WEA INDEFINITE



ELECTROMAGNETIC SURVEY
 GEOSearch CONSULTANTS LTD.
 FOR
SELCO EXPLORATION CO. LTD.
 GRID 'B'
 SHEET 3
 STURGEON LAKE AREA, ONTARIO
 SCALE: 1 INCH TO 200 FT.

52J/02 SE 0026 #3

DATE: May, 1970
 APPROVED: *[Signature]* 70-33