REPORT

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY

on

SPOONER MINES AND OILS LIMITED PROPERTY

STURGEON LAKE AREA, ONTARIO

To Accompany Map No. 8

(WEST GRID)

INTRODUCTION:

An electromagnetic horizontal loop survey was carried out between August 7, 1971 and February 12, 1972 by Searchor Ltd., P.O. Box 69, Flin Flon, Manitoba; Contractor Antoni Wasyliuk, Box 641, Flin Flon, Manitoba; and by Geosearch Consultants Limited, St. 1114, 100 University Avenue, Toronto 116, Ontario; on behalf of Grönges Exploration Aktiebolag, Vancouver, B.C.

The Searchor Ltd. linecutting was supervised by Mr. Gordon Percival of Flin Flon, Manitoba; Geosearch Consultants portion of the survey was supervised by Mr. R. Lee; and Antoni Wasyliuk's survey was supervised by George Lawson of Flin Flon, Manitoba. The overall program was supervised by George Zbitnoff, Geologist, on behalf of Grönges Exploration Aktiebolag.

LOCATION AND ACCESS:

These mineral claims are located approximately 45 miles north of Ignace in northwestern Ontario as shown on the attached map.

Access is by road from the town of Ignace, approximately 40 miles north on Highway 599, then by skidoo via bush trail west about one mile to the claims.

GEOLOGY OF THE AREA:

The survey work was carried out on the property during the winter months, thus no geological observations were made on the property. The geology of the area is described as being mafic meta volcanics on Map 2169 as published by the Ontario Department of Mines.

SUMMARY OF EXPLORATION WORK DONE TO DATE ON THE PROPERTY:

To the knowledge of the writer, no previous ground surveys were performed on the property prior to these surveys carried out on behalf of Grönges Exploration Aktiebolag. There was, however, an airborne electromagnetic and magnetic survey performed by Scintrex Ltd. for Spooner Mines & Oils Limited which was submitted as assessment work.

NAME AND ADDRESS OF OWNER OF THE CLAIMS:

Spooner Mines and Oils Limited,
Suite 607 - 30 Richmond Street West,
Toronto 110, Ontario.

Optioned to:

Grönges Exploration Aktiebolag,
1060 - 1055 West Hastings Street,
Vancouver 1, B.C.

NAME AND ADDRESS OF PARTY SUBMITTING WORK:

The name and address of the party submitting the work for assessment purposes is: Grönges Exploration Aktiebolag,
1060 - 1055 West Hastings Street,
Vancouver 1, B.C.

NUMBER OF CLAIMS COVERED BY THE SURVEY:

The numbers of the claims actually covered by the surveys on which the work is shown on attached map No. 8 and are specified in the Report of Work form. A total of 13 claims were covered by this survey.

INSTRUMENTS USED TO PERFORM THE SURVEY:

The surveys were completed using an ABEM Electromagnetic Gun horizontal loop survey unit; manufactured by A.B. Electrisk Malmletning, Stockholm, Sweden, operating at 3520 cycles per second, and using a transmitter-receiver coil spacing of 300 feet.

Readings were recorded along the section lines of a 400-foot grid and isolated locations of 200-foot grid at 100-foot intervals and in anomalous zones at 50-foot intervals.

The ABEM Gun operates on the same principle as all other horizontal loop instruments, with typical results for all being as in the following description. When the survey crew are tranversing a section line and approaching a conductor, positive results are obtained. These are followed by negative readings when the conductor lies between the coils, and a second positive section when both coils have passed beyond the conductor.

Both In-Phase and Quadrature components show the same general response; however, the ratio of In-Phase to Quadrature is directly proportional to the conductivity of the zone. A

ratio of In-Phase to Quadrature greater than two indicates a high conductivity. Ratios of one to two indicate medium conductivity, while a ratio of less than one indicates poor conductivity. Generally, ratios of less than 0.5 indicates a response due to ionic conduction in muskeg or lake bottom material.

The accompanying map shows the grid system, plotted readings and electromagnetic conductors. The locations of readings are indicated by dots along the section lines. Each location is the position of the mid-point between the transmitter and receiver coils when the reading was taken. The In-Phase readings are plotted to the left of the dots and the Quadrature readings are plotted to the right.

TOTAL STATIONS AND READINGS TAKEN ON THE GRID:

The initial number of statio.. established on the claims being submitted was 874 stations with 1,748 readings taken.

Total number of line miles cut on the grids on the claims submitted is 18.1 including base lines and section lines. Total number of miles of electromagnetic surveying carried out was 16.97 miles.

EXPENDITURES INCURRED ON THE SURVEY:

Line cutting	$ 1,267.00
Electromagnetic surveying	1,041.05

(continued)

Drafting, layouts, maps etc	198.82
Office overhead (management, secretarial, rent, etc)	201.37
TOTAL EXPENDITURES	$2,708.24

RESULTS:

The results of the surveys performed are shown on enclosed map No. 8.

Seven separate conductors with fair to high conductivity and In-Phase amplitude were located, all indicating the presence of definite conductive mineralization. Three other very weak anomalies were also noted, these being attributed to conductive overburden and a fault zone. All are shown as solid or broken lines on the map.

CONCLUSIONS AND RECOMMENDATIONS:

The conclusion reached is that the anomalies showing the highest and best ratios are caused by conductors which may or may not be economic material.

It is recommended that these conductors be further tested by diamond drilling to establish if they are of any economic importance.

George W. Zbitnoff,
Geologist,
Gränges Exploration Aktiebolag

SCHEDULE "A"

PA-230260
230261
230262
230263
230264
230265
230266

PA-222692
222693
222694
222695
222696
222697

PA-245986
245987

PA-245965
245966
245967
245968
245969
245970
245971
245972
245973
245974
245975
245976
245977
245978
245979
245980
245981
245982

TOTAL = 33 Claims

REPORT

020

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY

on

SPOONER MINES AND OILS LIMITED PROPERTY

FOURBAY LAKE AREA, ONTARIO

To Accompany Map No. 9

(THUNDER GRID)

INTRODUCTION:

An electromagnetic norizontal loop survey was carried out between November 15, 1971 and January 23, 1972 by Contractor Antoni Wasyliuk, Box 641, Flin Flon, Manitoba on behalf of Grönges Exploration Aktiebolag, Vancouver, B.C.

The linecutting and E.M. survey was supervised by Mr. George Lawson of Flin Flon, Manitoba. The overall program was supervised by George Zbitnoff, Geologist, on behalf of Grönges Exploration Aktiebolag.

LOCATION AND ACCESS:

The mineral claims as listed in Schedule "A" are located approximately 45 miles north of Ignace in northwestern Ontario. The area covered by these claims is half water and half land.

Access is by: a) ski or float equipped aircraft from Ignace, or b) by motoring approximately 50 miles north on Highway 599 to Jessie Lake, then by canoe or skidoo southeast via bush trail for about 2 miles to the claims.

GEOLOGY OF THE AREA:

The survey work was carried out on the property during the winter months, thus no geological observations were made on the property. The geology of the area is described as being mafic meta volcanics on Map 2169, published by the Ontario Department of Mines.

SUMMARY OF EXPLORATION WORK
DONE TO DATE ON THE PROPERTY:

To the knowledge of the writer, no previous ground surveys were performed on the property prior to these surveys carried out on behalf of Grönges Exploration Aktiebolag. There was, however, an airborne electromagnetic and magnetic survey performed by Scintrex Ltd. for Spooner Mines & Oils Limited which was submitted as assessment work.

NAME AND ADDRESS OF OWNER
OF THE CLAIMS:

Spooner Mines and Oils Limited,
Suite 607 - 80 Richmond Street West,
Toronto 110, Ontario.

Optioned to:

Grönges Exploration Aktiebolag,
1060 - 1055 West Hastings Street,
Vancouver 1, B.C.

NAME AND ADDRESS OF PARTY
SUBMITTING WORK:

The name and address of the party submitting the work for assessment purposes is: Grönges Exploration Aktiebolag,
1060 - 1055 West Hastings Street,
Vancouver 1, B.C.

NUMBER OF CLAIMS COVERED
BY THE SURVEY:

The numbers of the claims actually covered by the surveys on which the work is shown on attached map No. 9 and are specified on Schedule "A". A total of 33 claims were covered by this survey.

INSTRUMENTS USED TO PERFORM THE SURVEY:

The survey was completed using an ABEM electromagnetic Gun horizontal loop survey unit; manufactured by A.B. Electrisk Malmletning, Stockholm, Sweden, operating at 880 cycles per second, and using a transmitter-receiver coil spacing of 300 feet.

Readings were recorded along the section lines of a 400-foot grid and isolated locations of 200-foot grid at 100-foot intervals and in anomalous zones at 50-foot intervals.

The ABEM gun operates on the same principle as all other horizontal loop instruments, with typical results being as in the following description. When the survey crew are tranversing a section line and approaching a conductor, positive results are obtained. These are followed by negative readings when the conductor lies between the coils, and a second positive section when both coils have passed beyond the conductor.

Both In-Phase and Quadrature components show the same general response; however, the ratio of In-Phase to Quadrature is directly proportional to the conductivity of the zone. A ratio of In-Phase to Quadrature greater than two indicates a high conductivity. Ratios of one to two indicate medium conductivity, while a ratio of less than one indicates poor conductivity. Generally, ratios of less than 0.5 indicates a response due to ionic conduction in muskeg or lake bottom material.

The accompanying map shows the grid system, plotted

readings and electromagnetic conductors. The locations of readings are indicated by dots along the section lines. Each location is the position of the mid-point between the transmitter and receiver coils when the reading was taken. The In-Phase readings are plotted to the left of the dots and the Quadrature readings are plotted to the right.

TOTAL STATIONS AND READINGS TAKEN ON THE GRID:

The number of stations established on the claims was 1,460 stations with 2,920 readings taken.

Total number of line miles cut on the grid on the claims submitted is 30.2 including base lines and section lines. Total number of miles of electromagnetic surveying carried out was 27.0 miles.

EXPENDITURES INCURRED ON THE SURVEY:

Line cutting	$ 2,062.50
Electromagnetic survey	1,080.00
Drafting, layouts, maps, etc	316.34
Office overhead, (management, secretarial, rent, etc.	320.40
TOTAL EXPENDITURES	$ 3,779.24

RESULTS:

The results of the survey are shown on enclosed map No. 9, drawn at a scale of 1" = 400 feet. Two bands of conductors were located on the eastern portion of the claims, on each side of and parallel to the 0+00 Baseline. Indicated conductivity and In-Phase response is strong at three locations, which would indicate shallow overburden at these points. All are shown on the map as solid or broken lines.

It is recommended that these conductors be further tested by diamond drilling to establish if they are of any economic importance.

George W. Zbitnoff,
Geologist,
Grönges Exploration Aktiebolag.

CERTIFICATE OF QUALIFICATION

I, George W. Zbitnoff, do hereby certify the following:

1) I am a graduate of the University of Saskatchewan in 1963 with a Bachelor of Arts degree in geology and chemistry.

2) I have been continuously employed in mineral exploration since May 1, 1962 in Ontario, Manitoba, Saskatchewan, and British Columbia.

3) I am a Professional Engineer in the Province of Manitoba, and have a Professional Engineer application pending in British Columbia.

George W. Zbitnoff.

GZ/lk

STATEMENT

P.

ANTONI WASYLIUK
BOX 631
FLIN FLON, MANITOBA

DATE Dec 2nd 19 71

Inexpro Explorations Canada

DATE	DETAILS	DEBIT	CREDIT	BALANCE
Re:	Spruce Optic Line Cutting			
	CoBB No: 1	7.2 mi Sec Line		
	"	.6 mi Bl.		
	CoBB No: 2	1.5 Bl.		
	"	6.1 Mi Sec Line		
	CoBB No: 3	3.7 mi Bl.		
	"	24.6 mi Sec Line		
	Detail work	T.M.		
	2.7 mi cut	2.07		
	Total mi cut	46.6 @ 75.		
		Paid Dec 6/71		
	UL-6-71	#705	P	3495.00
	E-301-03.	#3495		

Per: M.M.

Rediform 8M101

STATEMENT

ANTONI WASYLUK
BOX 661
FLIN FLON, MANITOBA

9 SA INS

DATE Dec 16 1971

Re: Agreement Option Line Cutting

DATE	DETAILS	DEBIT	CREDIT	BALANCE
	~~CoBB No. 1 7.8 24.1 mi~~			
	~~CoBB No. 3 7.6 24 mi~~	} Re billing		
	~~CoBB No 3 2.85 27 M.~~			
	Thunder Grd ~~24.8~~ 20.1 u.		1305.00	
	" ~~@ 175~~ not Completed			
	Total mile at 63			
	by 64 ~~Can @ 75~~	4600	3495.00	
				1305 00

RECEIVED
IMPERIAL OIL ENTERPRISES EXPLORATION CANADA
DEC 29 1971
Account No. E-301-03
Per:

Paid Dec. 29/71
Ck. #760
$1,305.00

STATEMENT

ANTO[illegible]
[illegible]
FLIN FLON, MANITOBA

DATE Jan 23rd 1972

Granges Exploration Canada

Re: Spruce option, Sturgeon L[illegible] Ont.

DATE	DETAILS	DEBIT	CREDIT	BALANCE
	Eastern Prospecting [illegible]			
	Cutting [illegible]			
	7.4 mi @ 75			555.00
	27.9 mi @ [illegible]			
	[illegible] 27.9 [illegible]	[illegible]	[illegible]	
	[illegible] Paid			1116.00
Paid Feb 16/72				
Cheque 1838				
$1671.00	RECEIVED GRANGES EXPLORATION [illegible] FEB 1972 E 301-05		555.00	
	Account No. E 301-05		1116.00	
				1671.00

Rediform 8M101

900

File _____

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL TECHNICAL DATA STATEMENT

(MAP #8 - WEST GRID)

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 Horizontal Loop Electromagnetic

Township or Area Sturgeon Lake Area (Map # M-2266)

Claim holder(s) Spooner Mines and Oils Limited

Author of Report George Zbitnoff

Address 1060 - 1055 West Hastings Street, Vanc, BC

Covering Dates of Survey August 7, 1971 to Feb. 12, 1972
(linecutting to office)

Total Miles of Line cut 18.10

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
--Electromagnetic	40
--Magnetometer	
--Radiometric	
--Other	
Geological	
Geochemical	

Off

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: August 2, 1972 SIGNATURE: _____
Author of Report

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
PA	230250
PA	230252
PA	230253
PA	230254
PA	230270
PA	230274
PA	230275
PA	230277
PA	230278
PA	230279
PA	230281
PA	230282
PA	230288

TOTAL CLAIMS 13

If space insufficient, attach list

OFFICE USE ONLY

PROJECTS SECTION

Res. Geol. Kenora Qualifications 2.952

Previous Surveys 2.58: Airborne On this file

Checked by _____ date _____

GEOLOGICAL BRANCH

Approved by _____ date _____

GEOLOGICAL BRANCH

Approved by _____ date _____

(MAP #8 - WEST GRID)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 874 Number of Readings 1,748

Station interval 100 feet and 50 feet

Line spacing 400 feet

Profile scale or Contour intervals _____
(specify for each type of survey)

MAGNETIC

Instrument _____

Accuracy - Scale constant _____

Diurnal correction method _____

Base station location _____

_____

ELECTROMAGNETIC

Instrument ABEM EM Gun

Coil configuration Horizontal

Coil separation 300 feet

Accuracy ± 1%

Method: ☐ Fixed transmitter ☐ Shoot back ☒ In line ☐ Parallel line

Frequency 3520 Hz
(specify V.L.F. station)

Parameters measured In-Phase and Quadrature

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

_____

Base station value and location _____

_____

Elevation accuracy _____

INDUCED POLARIZATION – RESISTIVITY

Instrument _____

Time domain _____ Frequency domain _____

Frequency _____ Range _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

File (map #9 THUNDER GRID)

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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: Horizontal Loop Electromagnetic

Township or Area: Fourbay Lake Area (Map # M-2879)

Claim holder(s): Spooner Mines and Oils Limited

Author of Report: George Zbitnoff

Address: 1060 - 1055 West Hastings Street, Vanc, B.C.

Covering Dates of Survey: Nov. 15/71 to Jan. 23/72
(linecutting to office)

Total Miles of Line cut: 30.2

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
–Electromagnetic	40
–Magnetometer	
–Radiometric	
–Other	
Geological	
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: August 2, 1972 SIGNATURE: _____
Author of Report

PROJECTS SECTION

Res. Geol. _____ Qualifications _____

Previous Surveys _____

Checked by _____ date _____

GEOLOGICAL BRANCH

Approved by _____ date _____

GEOLOGICAL BRANCH

Approved by _____ date _____

MINING CLAIMS TRAVERSED
List numerically

See Attached List

(prefix)	(number)

If space insufficient, attach list

TOTAL CLAIMS 33

(map #9 THUNDER GRID 9)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 1,460 Number of Readings 2,920

Station interval 100 feet and 50 feet

Line spacing 400 feet

Profile scale or Contour intervals

(specify for each type of survey)

MAGNETIC

Instrument

Accuracy - Scale constant

Diurnal correction method

Base station location

ELECTROMAGNETIC

Instrument ABEM EM Gun

Coil configuration Horizontal

Coil separation 300 feet

Accuracy ± 1%

Method: ☐ Fixed transmitter ☐ Shoot back ☒ In line ☐ Parallel line

Frequency 880 Hz

(specify V.L.F. station)

Parameters measured In-Phase and Quadrature

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION – RESISTIVITY

Instrument

Time domain Frequency domain

Frequency Range

Power

Electrode array

Electrode spacing

Type of electrode

FOURBAY LAKE
M - 2879
SCALE: 1" = 40 CHAINS

Sixmile Lake Area - M.2877

PLAN OF S. W. PART

STURGEON LAKE AREA

RICIA MINING DIVISION — DISTRICT OF K

Scale 40 chains to an inch.

PENASSI LAKE AREA.

PENASSI LAKE
M-2257
SCALE: 1" = 40 CHAINS

LTD.

LAKE

MOUNTAIN

PROJECTS SECTION

MINISTRY OF NATURAL RESOURCES

FILE 2.976

TECHNICAL ASSESSMENT WORK CREDITS

Recorder Holder: Spooner Mines & Oils Ltd.

Township or Area: S. W. part of Sturgeon Lake

Type of Survey and number of Assessment Days Credits per claim	
GEOPHYSICAL	
Electromagnetic	40 days
Magnetometer	days
Radiometric	days
Induced Polarization	days
GEOLOGICAL	days
GEOCHEMICAL	days

Man days ☐ Airborne ☐

Special Provision ☒ Ground ☒

Mining Claims
Pa. 230250
230252 to 54 inclusive
230270
230274 - 75
230277 to 79 inclusive
230281 - 82
230288

NOTICE OF INTENT TO BE ISSUED

☐ Credits have been reduced because of partial coverage of claims.

☐ Credits have been reduced because of corrections to work dates and figures of applicant.

☐ NO CREDITS have been allowed for the following mining claims as they were not sufficiently covered by the survey:

_____

_____

_____

_____

NOTE – *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;*

PROJECTS SECTION

MINISTRY OF NATURAL RESOURCES

FILE 2.976

TECHNICAL ASSESSMENT WORK CREDITS

Recorder Holder: Spooner Mines & Oils Ltd.

Township or Area: Fourbay Lake

Type of Survey and number of Assessment Days Credits per claim	
GEOPHYSICAL	
Electromagnetic	40 days
Magnetometer	days
Radiometric	days
Induced Polarization	days
GEOLOGICAL	days
GEOCHEMICAL	days
Man days ☐	Airborne ☐
Special Provision [X]	Ground [X]

Mining Claims
Pa. 222692 to 97 inclusive
230260 to 66 "
245965 to 82 "
245986 - 87

NOTICE OF INTENT TO BE ISSUED

☐ Credits have been reduced because of partial coverage of claims.

☐ Credits have been reduced because of corrections to work dates and figures of applicant.

☐ NO CREDITS have been allowed for the following mining claims as they were not sufficiently covered by the survey:

_____

_____

_____

_____

NOTE – *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;*

map # 8 · WEST GRID)

SCHEDULE "A"

PA-230260
230261
230262
230263
230264
230265
230266

PA-222692
222693
222694
222695
222696
222697

PA-245986
245987

PA-245965
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245968
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245972
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245974
245975
245976
245977
245978
245979
245980
245981
245982

TOTAL = 33 Claims

(map # 9 Thunder Grid)

SCHEDULE "A"

PA-230260
230261
230262
230263
230264
230265
230266

PA-222692
222693
222694
222695
222696
222697

PA-245986
245987

PA-245965
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245968
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245972
245973
245974
245975
245976
245977
245978
245979
245980
245981
245982

TOTAL = 33 Claims

52 J/07 SW (15)

ONTARIO

Ministry
f Natural
esources

File: 2.976

W1617, Whitney Block,
Parliament Buildings,
Queens Park, Toronto.

Telephone 416:965-6918

September 26, 1972.

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

Dear Sir:

Re: Mining claims no. Pa. 222692 et al,
Fourbay Lake Area. File 2.976

The Geophysical (Electromagnetic) assessment work credits as shown on the attached list have been approved as of the date above. Please inform the recorded holder and so indicate on your records.

Yours very truly,

Fred W. Matthews,
Supervisor,
Projects Section.

/dg.

c.c. Spooner Mines & Oils Ltd.
607 - 80 Richmond St., W.,
Toronto 1, Ont.

c.c. Granges Exploration AB,
Canadian Division,
1060 Guinness Tower,
1055 West Hastings St.,
Vancouver 1, B. C.

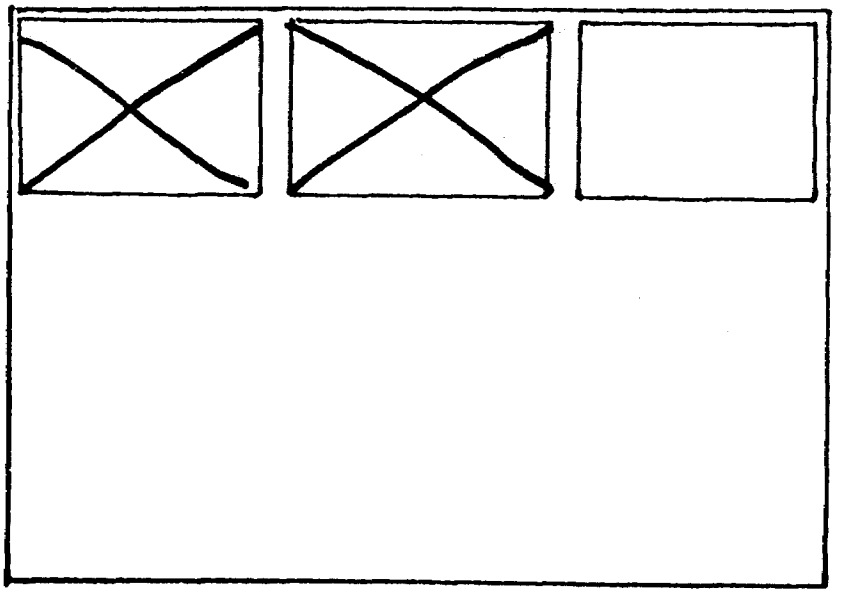
c.c. Resident Geologist,
Kenora, Ont.

SEE ACCOMPANYING MAP(S) IDENTIFIED AS

52J/02 SW-0064 #1-2

LOCATED IN THE MAP CHANNEL IN THE FOLLOWING SEQUENCE

(X)



PA 240242 | PA 221784 | PA 221783

PA 230243 | PA 230245 | PA 230246

PA 230244 | PA 230248 | PA 230247

PA 230251 | PA 230250 | PA 230249

PA 230253 | PA 230252 | PA 230288 | PA 230281 | PA 230280 | PA 230273 | PA 230272

PA 230254 | PA 230282 | PA 230279 | PA 230274 | PA 230271

PA 230255 | PA 230287 | PA 230278 | PA 230275 | PA 230270 | PA 230267 | PA 230289 | PA 230290

PA 230256 | PA 230257 | PA 230286 | PA 230283 | PA 230278 | PA 230268 | PA 201743

PA 230259 | PA 230258 | PA 230285 | PA 230284 | PA 230277 | PA 230276 | PA 230269 | PA 201744

LAKE

POND

POND

SPO 21822

SPO 23

ASTRO

BASELINE

BLOCK B
ABITIBI POWER & PAPER CO. LTD.

DETAILS OF WORK BEING SUBMITTED IN AREA OUTLINED :

LINECUTTING : 16.57 MILES GRID LINE
1.75 MILES BASE LINE
18.32 TOTAL

E.M. SURVEY : 16.57 MILES

NO. OF STATIONS : 874
NO. OF READINGS : 1748

SUPERVISED BY :

(G. ZEITNOFF)

— LEGEND —

= CLAIM POST

= CLAIM BOUNDARY

= LAKE SHORE

: DEFINITE CONDUCTOR
: WEAK CONDUCTIVE TREND

— KEY —

STATION LOCATION - MIDWAY BETWEEN COILS

% IN-PHASE

QUADRATURE %

CONDUCTOR

Outline of West Grid

LOCATION MAP

SCALE: 1 in. = 4 miles

SURVEYED BY R. LEE & G. FRONTEAU OF GEOSEARCH CONSULTANTS LIMITED - OCT. 12 TO OCT. 20, 1971. and G. LAVOIE & J. BERG - FEB. 27 TO MAR. 7, 1972.	DRAWN BY: M.P
OPERATING FREQUENCY : 3570 HZ.	DATE: MARCH - 1972
COIL SPACING : 300 FEET	MILES SURVEYED : 20

GRÄNGES EXPLORATION AB
CANADIAN DIVISION
VANCOUVER OFFICE

HORIZONTAL LOOP E.M. SURVEY
SPOONER MINES AND OILS LIMITED
OPTION
"WEST" GRID (CLAIM MAP No M-2266)
STURGEON LAKE AREA, ONT.

SCALE: 1" = 400'	
PROJECT No.: E-301	
N.T.S. No.: 52 - G - 14 - NE	

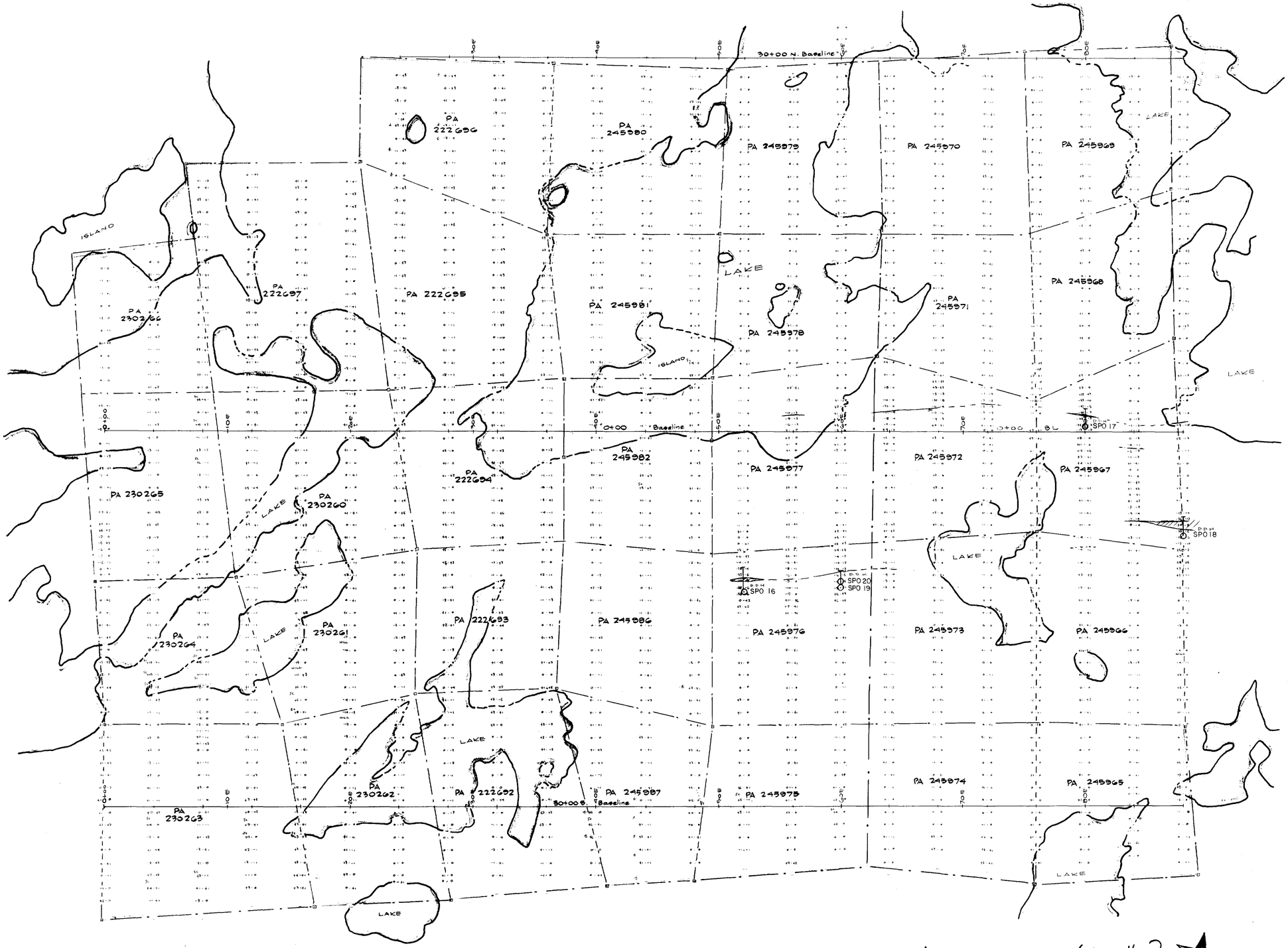
MAP No 8

52J/02SW-0064
#1

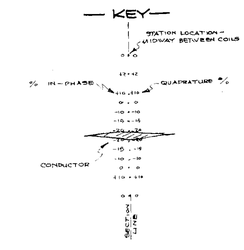
2.976

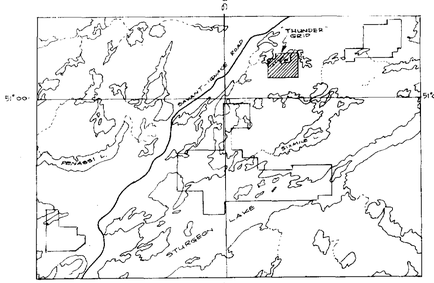
200

SDJ0207427 SDJ0208008A FOURWAY LAKE



KEY





LOCATION MAP SCALE : 1" : 4 MILES

DETAILS OF WORK BEING SUBMITTED IN AREA OUTLINED :

LINECUTTING :	GEC LINE	:	27.0 MILES
	BASE LINE	:	3.2 MILES
	TOTAL	:	30.2 MILES
E.M. SURVEY		:	27.0 MILES
NO. OF STATIONS		:	1460
NO. OF READINGS		:	2040

SUPERVISED BY : (G. ZEITNOEFF)

52J/02SW-0064 #2

2.976

52J02SW7427 52J02SW0064 FOURBAY LAKE

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SURVEYED BY: Geo. LAWSON & J. BEAR DEC 13,1971 TO JAN 29, 1972	DRAWN BY: M.P	GRÄNGES EXPLORATION AB CANADIAN DIVISION VANCOUVER OFFICE	HORIZONTAL LOOP E.M. SURVEY SPOONER MINES AND OILS LIMITED OPTION "THUNDER" GRID (CLAIM MAP No. M.2879) FOURBAY LAKE AREA, ONT.	SCALE: 1" : 400'
OPERATING FREQUENCY : 880 Hz COIL SPACING : 300 FEET	DATE: JAN - 1972			PROJECT No.: E-301
: DEFINITE CONDUCTOR : WEAK CONDUCTIVE TREND.	MILES SURVEYED : 27.0			N.T.S. No.: 52-J-2