42A01SE0144 2.4086 OTTO

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AUG 2 1 1981

MINING LANDS SECTION

REPORT ON GEOPHYSICAL SURVEY ON PROPERTY OF ARGENTEX CORPORATION LTD. OTTO TOWNSHIP, ONTARIO

by

Prospecting Geophysics Ltd.

Toronto, Ontario

May 25, 1981

REPORT
ON
GEOPHYSICAL SURVEY
ON PROPERTY OF
ARGENTEX CORPORATION LTD.
OTTO TOWNSHIP, ONTARIO

INTRODUCTION

Argentex Corporation Ltd. is the holder of a gold prospect covering a portion of the Otto Stock, a circular intrusive body in Otto Township, Ontario.

A programme of exploration, which included line cutting, a V.L.F. (very low frequency) electromagnetic survey and a magnetometer survey has just been completed over a portion of the property. This work follows the recommendations of Hulbert A. Lee, Ph.D., P. Eng. in his report dated March 26, 1981.

The following report and accompanying maps describe the results of the geophysical surveys.

PROPERTY

The property of Argentex Corporation in Otto Township, Larder Lake Mining Division of Ontario, consists of 71 contiguous mining claims. The present surveys cover 51 mining claims as shown on the accompanying maps. The claim numbers included in the property and those covered by the survey are shown below:

Property Claims	Claims Covered by Surveys
L545518-9	L545518-9
L545520-1-2-3-4-5	L545520-1
L545530	L545530

PROPERTY (cont'd)

Property Claims	Claims covered by Surveys
L545533-4-5-6-7	L545533-4-5-6-7
L545644	L545644
L548826-7-8-9	L548826-7-8-9
L548830	L548830
L548901-2-3-4	L548901-2-3-4
L550433-4-5-6-7-8-9	L550433-4-5-6-7-8-9
L550440-1-2-3-4-5	L550440-1-2-3-4-5
L550446-7-8-9	L550446-7-8-9
L550450-1-2-3-4-5	
L550456-7-8-9	L550457-8-9
L550460-1-2-3	L550460
L550775-6-7-8-9	L550775-9
L550935-6-7-8-9	L559035-6
L550952-3-4-5-6	L550952-3-4-5-6
L550980	L550980
Total Claims: 71	51

GEOLOGY

The Argentex property lies wholly within a plutonic body of rocks referred to as the Otto Stock. This is a circular body about seven miles in diameter composed of syenite, syenite porphyry and quartz syenite rocks that have intruded into the volcanic rocks.

To the east the stock is bordered by basalts and tuffs while to the west, there are volcanic rocks, all of which belong to the Archean Lower Supergroup of rocks. To the north, it is bordered by volcanic and sedimentary-volcanic rocks of the Archean Upper Supergroup and to the south by granitic rocks of the Round Lake Batholith.

There are four known gold showings on claim L548830 on the Argentex property, all of which are described in Dr. Lee's report of March 26th. In addition, initial work using the

GEOLOGY (cont'd)

Glaciofocus method of exploration which searches for gold deposits under the overburden cover has indicated gold pathways in the basal till on the Argentex property.

SURVEY METHODS AND INSTRUMENT DATA

The geophysical surveys consisting of both V.L.F. electromagnetic and magnetometer surveys were conducted over cut lines at 400 foot intervals as shown on the accompanying maps.

The equipment used in the V.L.F. electromagnetic survey was the Geonics EM-16 system. The V.L.F. method uses the radiation from powerful military radio transmitters at low frequencies (15 to 25 kHz) as a primary signal as opposed to portable transmitters in the conventional EM methods. The instrument has two receiving coils built into it with one coil having a vertical axis and the other is horizontal. The instrument is oriented along the survey lines which should approximate the lines of the magnetic field and the operator tilts the instrument to minimize the signal from the vertical axis coil. The mechanical tilt angle is a measure of the vertical real-component and the reading from the horizontal coil is a measure of the quadrature vertical signal.

The interpretation of the results uses the relative measurements of these two parameters and it is possible to outline such poor conductors as shear zones, breccia zones,

SURVEY METHODS AND INSTRUMENT DATA (cont'd)

faults and alteration zones, as well as good sulphide conductors. Because V.L.F. anomalies are produced by a wide range of geological affects, profiles tend to show a complex "cluttered" pattern which is sometimes difficult to interpret.

By the use of the Fraser method of filtering tilt angle profiles, the noisy non-contourable data is transformed into less noisy contourable data. In the plotting of this survey, the Fraser method has been used and it is the contourable data that has been plotted. The calculations are made so that the conductors are represented by negative readings on the accompanying map. In addition, the actual values obtained in the survey as the vertical in-phase component and the quadrature are shown on the right side of the line, but they have not been profiled.

The magnetic readings were taken over the same network of lines using a Geometrics G-816 Portable Proton magnetometer measuring the earth's total magnetic field. Readings were taken at 100 foot intervals and plotted as gammas on a separate map after correction for diurnal variation. All conductor axes have been plotted on the magnetic maps to aid in the interpretation.

RESULTS OF THE GEOPHYSICAL SURVEYS

The results of the geophysical surveys are shown on four separate maps accompanying the report as follows:

RESULTS OF THE GEOPHYSICAL SURVEYS (cont'd)

Electromagnetic Survey	-	Grid 1
Electromagnetic Survey	-	Grids 2 and 3
Magnetometer Survey	-	Grid 1
Magnetometer Survey	-	Grids 2 and 3

Grid 1

The electromagnetic Survey on Grid 1 shows a number of conductors in the easterly portion of the map but very little in the west section. These conductors generally have a trend of east-west to slightly north of west, with the exception of one weak zone in range III with a northeast strike. Several of the conductors close to the base line are moderately strong conductors and can be regarded as possible shear zones.

The magnetic survey on Grid 1 shows fairly uniform readings throughout most of the area which is what one would expect over an intrusive body. However, there are some small irregular areas of higher readings in the vicinity of the conductive zones. This is particularly noticeable on line 68E just north of the base line where there is a coincident high magnetic reading with high conductivity. There is obviously some disturbance in the underlying rocks, possibly a fault or fold and this would be a favourable environment for mineralization. The northern gold pathway traced on the property by the Glaciofocus method is in this same vicinity, and there may be some correlation between the two.

Grids 2 and 3

The electromagnetic survey on these two grids which covers portions of the property in ranges I, II and III showed a number of fairly strong conductive zones trending generally east-west. In the western part of range II, there are a number of one line high conductive responses but these are largely due to power lines and can be disregarded. However, there are two fairly continuous conductors in this area that warrant further investigation, particularly the one near the south boundary of claims 550439 and 550440. The magnetic map shows this to be almost on the flank of a magnetic anomaly.

There are also a number of conductive zones outlined in the east part of range II on this map. These are somewhat difficult to interpret as they mostly extend off the grid at both extremities. The magnetics here are fairly uniform with the exception of a few erratic magnetic lows.

The magnetics generally on Grids 2 and 3 are slightly more erratic than on Grid 1 which may be due to variations in the rock composition of the intrusive or possibly in some cases, a variation in overburden depth.

CONCLUSIONS AND RECOMMENDATIONS

The present geophysical surveys are the initial phase of a programme of exploration recommended by Dr. Lee. The surveys cover approximately 70% of the property and it may be beneficial

CONCLUSIONS AND RECOMMENDATIONS (cont'd)

at some later date to enlarge the area covered. However, the surveys have been successful in outlining areas containing conductive zones that may well represent shear zones within the syenite intrusive. These are of a similar type to those found on the property of Belmoral Mines Ltd. in the Bourlamaque batholith near Val d'Or, Quebec. Some of these were found to represent gold-bearing shear zones, one of which represented the "B" gold deposit, now in production.

Some of the conductive zones on the Argentex property appear to be in close proximity to the gold pathways indicated in a preliminary Glaciofocus survey. Further work of this nature is planned on the property, as well as geological mapping of the bedrock. When this work has been completed, it can be correlated with the geophysical surveys to determine definitive drill targets.

Respectfully submitted,

PROSPECTING GEOPHYSICS LTD.

Toronto, Ontario
May 25, 1981

H. O. Bergmann, P. Eng.

42A01SE0144 2.4086 OTTO

900

1983 08 10 2.4086

Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

RE: Geophysical (Electromagnetic & Magnetometer) Survey on Mining Claims L 545518 et al in the Township of Otto.

The Geophysical (Electromagnetic & 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
Qeen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

D. Kinvig:sc

cc: Argentex Resources Exploration Corp.
Toronto, Ontario

cc: Mr. H.J. Bergmann
70 Chiswell Crescent
Willowdale, Ontario
M2N 6E1

cc: Resident Geologist
Kirkland Lake, Ontario

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File 2.4086

1983 07 13

Recorded Holder: ARGENTEX RESOURCE EXPLORATION CORP

~~Township~~ Area: OTTO

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	L 545518 to 21 inclusive 545530 545533-34 545536 545644 548826 to 30 inclusive 548901 to 04 " 550433 550435 to 37 inclusive 550439 to 41 " 550444 to 49 inclusive 550457 to 60 " 550779 550935-36 550952 to 56 inclusive 550980
Electromagnetic _____ days	
Magnetometer 20 days	
Radiometric _____ days	
Induced polarization _____ days	
Section 77(19) ~~86(18)~~ _____ days	
Geological _____ days	
Geochemical _____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☒ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	
77(16)	

Special credits under section ~~85(15a)~~ for the following mining claims

15 days Mag

L 545535
545537
550434

10 days Mag

L 550438

No credits have been allowed for the following mining claims

☒ not sufficiently covered by the survey ☐ Insufficient technical data filed

L 550442-43
550775

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) 80~~: 77(19)

828

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File 2.4086

1983 07 13

Recorded Holder
ARGENTEX RESOURCE EXPLORATION CORP

Township or Area
OTTO

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	L 545518 to 21 inclusive
Electromagnetic 40 days	545530
Magnetometer ____ days	545533-34
Radiometric ____ days	545536
Induced polarization ____ days	545644
Section ~~30(19)~~ XX 77(19) ____ days	548826 to 30 inclusive
Geological ____ days	548901 to 04 "
Geochemical ____ days	550433
Man days ☒ Airborne ☒	550435 to 37 "
Special provision ☐ Ground ☐	550439 to 41 "
☒ Credits have been reduced because of partial coverage of claims.	550444 to 49 "
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	550457 to 60 "
77(16)	550779
	550935
	550952 to 56 inclusive
	550980

Special credits under section ~~30(25)~~ 77(19)a) for the following mining claims

30 days EM	20 days EM
L 545535	L 550434
545537	
550438	
550936	

No credits have been allowed for the following mining claims

☒ not sufficiently covered by the survey ☐ Insufficient technical data filed

L 550442-43
550775

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 ~~30(19)~~ 77(19)

828

Ministry of Natural Resources
Ontario

Aug 3, 1983

Your file:

Our file: 2.4086

1983 07 13

Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
Kirkland Lake, Ontario
P2N 1A2

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: Argentex Resources Exploration Corp
Toronto, Ontario

cc: Mr. H.J. Bergmann
70 Chiswell Crescent
Willowdale, Ont.
M2N 6E1

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

Encls:

Ministry of Natural Resources
Ontario

Notice of Intent

for Technical Reports

1983 07 13

2.4086

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

2.4086

Ministry of Natural Resources

Notification of recording of assessment work credits

Recording Office
4 Gov't Road East
KIRKLAND LAKE, Ontario
P2N 1A2

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

RECEIVED
JUL 27 1981
MINING LANDS SECTION

Date of recording of work: JULY 17, 1981

Recorded holder: ARGENTEX RESOURCE EXPLORATION CORP.

Address: Suite #500, 65 Richmond Street West, TORONTO, Ontario

Township or Area: OTTO TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical VLF)	L 550956
Electromagnetic 60) ____ days	
Magnetometer ____) ____ days	
Radiometric ____ days	
Induced polarization ____ days	
Section 86 (18) ____ days	
Geological ____ days	
Geochemical ____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	

See revised work statement

L.D

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.

J. Britton
Acting Mining recorder/bs

c.c. Argentex Resource Exploration Corp.
c.c. Robert J. Kasner
Box 993, KIRKLAND LAKE, Ontario

Sept 15

Ontario

2.4086

Ministry of Natural Resources

Recording Office
4 Gov't Road East
KIRKLAND LAKE, Ontario
P2N 1A2

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

Notification of recording of assessment work credits

RECEIVED
AUG 26 1981
MINING LANDS SECTION

Date of recording of work: AUGUST 7, 1981

Recorded holder: ARGENTEX RESOURCE EXPLORATION CORPORATION

Address: Suite 500, 65 Richmond Street West, TORONTO, Ontario

Township or Area: OTTO TOWNSHIP

Type of survey and number of Assessment days credit per claim		Mining claims
Geophysical		
Electromagnetic ~~VLF~~	60 days	L 550457 - L 550460 inclusive
Magnetometer	60 days	L 550775
Radiometric	days	L 550779
Induced polarization	days	L 550935 - L 550936 inclusive
Section 86 (18)	days	L 550952 - L 550954 inclusive
Geological	days	L 550980
Geochemical	days	L 545533
Man days ☐	Airborne ☐	
Special provision ☒	Ground ☒	

See revised statement of work.

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.

Acting Mining recorder /bs

c.c. Argentex Resource Exploration Cor.
c.c. Robert J. Kasner
Box 993
KIRKLAND LAKE, Ontario

L.D

Ontario

Ministry of Natural Resources

Notification of recording of assessment work credits

Recording Office
4 Gov't Road East
KIRKLAND LAKE, Ontario
P2N 1A2

Lands Administration Branch
Mining Lands Section
Ministry of Natural Resources
Room 6450 Whitney Block
Queen's Park, Toronto
M7A 1W3

RECEIVED
AUG 2 0 1981
MINING LANDS SECTION

Date of recording of work: August 7, 1981

Recorded holder: Argentex Resource Exploration Corporation
Address: Suite 500, 67 Richmond Street West
Toronto, Ontario, M5H 1Z5

Township or Area: Otto township

Type of survey and number of Assessment days credit per claim		Mining claims
Geophysical		L 548904, 550433 to 550449 incl. L 545518 to 545521 incl. L 545530, 545534 to 545537 incl. L 545644, 548826 to 548830 incl. L 548901 to 548903 incl.
Electromagnetic VLF	60 days	
Magnetometer	days	
Radiometric	days	
Induced polarization	days	
Section 86 (18)	days	
Geological	days	
Geochemical	days	
Man days ☐	Airborne ☐	
Special provision ☐	Ground ☐	

See revised work statement

L.D

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.

Acting Mining recorder

c.c. Argentex Resource Explortion Corporation
c.c. Robert J. Kasner
Box 993
Kirkland Lake, Ontario
P2N 3L1

Ministry of Natural Resources
Ontario

Geotechnical Report Approval

File 2.4086

Mining Lands Comments

[x] To: Geophysics Mr. Barlow.

Comments

[x] Approved [ ] Wish to see again with corrections | Date May 11/83 | Signature

[ ] To: Geology - Expenditures

Comments

[ ] Approved [ ] Wish to see again with corrections | Date | Signature

[ ] To: Geochemistry

Comments

L.D.

[ ] Approved [ ] Wish to see again with corrections | Date | Signature

[ ] To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1593 (81/10)

ARGENTEX RESOURCE EXPLORATION CORPORATION

HEAD OFFICE
Ste. 500, 67 Richmond St. W.
TORONTO, Ontario M5H 1Z5
(416) 361-0737

EXECUTIVE OFFICE
Ste. 908, 111 Richmond Street W.
TORONTO, Ontario M5H 2G4
(416) 947-1465/6

RECEIVED
Land Management Branch
CIRCULATE ☒
COMMENTS PLEASE ☐
BY
MAR - 3 1983
E. F. ANDERSON
J. R. MORTON
J. C. SMITH
G. SHERMAN
J. M. SMALL
RETURN TO R.6450

March 3, 1983

Ministry of Natural Resources
Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3

Attention: Mr. E.F. Anderson
Director
Land Management Branch

Dear Mr. Anderson:

Re: Mining Claims L545518 et al in the
Township of Otto

As per your letter of February 18, 1983 please find enclosed the following in regard to the above noted:

1. Electro Magnetic Survey Grid 1.
2. Electro Magnetic Survey Grid 2 & 3.
3. Magnetometer Survey Grid 1.
4. Magnetometer Survey Grid 2 & 3.

We trust that this will now allow you to complete your assessment of thework credits.

Yours very truly,
ARGENTEX RESOURCE EXPLORATION CORPORATION

Per: George A. Duguay, C.G.A., A.C.I.S.

Encs.
GAD:gnp

1983 02 18 2.4086

Argentex Resources Exploration Corporation
Suite 500
67 Richmond Street West
Toronto, Ontario
M5H 1Z5

Dear Sir:

RE: Geophysical (Electromagnetic & Magnetometer) Survey submitted on Mining Claims L 545518 et al in the Township of Otto.

Enclosed is a copy of our letter dated July 6, 1982 requesting additional information for the above mentioned survey.

Unless you can provide the required data by March 7, 1983, the mining recorder will be directed to cancel the work credits recorded on July 17, 1981 and August 7, 1981.

Expl & Mar 14

For further information, 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: 416/965-1380

Diane Wice:sc

Encls:

cc: H.J. Bergmann
Willowdale, Ontario

cc: Mining Recorder
Kirkland Lake, Ontario

1982 07 06 2.4086

Argentex Resource Exploration Corp.
Suite 500 - 65 Richmond Street West
Toronto, Ontario

Dear Sirs:

Re: Geophysical (Electromagnetic and Magetometer) Survey on Mining Claims: L 545518 et al, in the Township of Otto

I regret the further delay, however we do not have duplicate maps for the above survey. Would you please send us another set of maps.

Upon receipt of the above material 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: 416/965-1316

J. Skura/amc

Letter acknowledged address unknown as of July 20/82 to Mr Bregman in Kelowna

FILE: 2.4086

GEOTECHNICAL REPORT APPROVAL

MINING LANDS COMMENTS: L.D

☑ MR. R. BARLOW

VLF Mag Maps Missing

DATE: Nov 1/91		APPROVED
SIGNATURE: Ryan Barlow	✓	WISH TO SEE AGAIN WITH CORRECTIONS

☐ MR. C. KUSTRA

DATE:		APPROVED
SIGNATURE:		WISH TO SEE AGAIN WITH CORRECTIONS

☐ DR. I. THOMPSON

DATE:		APPROVED
SIGNATURE:		WISH TO SEE AGAIN WITH CORRECTIONS

☐ [redacted] ATTHEWS, ROOM 6452 WILTNEY BLOCK (5-1380)

1981 08 21 2.4086

Mining Recorder's Office
Ministry of Natural Resources
P.O. Box 984
4 Government road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir;

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer) survey submitted under Special Provisions (credit for Performance and Coverage) on mining claims L 548904 et al in the Township of Otto.

This material will be examined and assessed and a statement of assessmentwwkkcredits 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 416/965-1380

Joan Skura

cc: Argentex ResourcesExploration Corporation
Toronto, Ontario

Ontario

Ministry of Natural Resources

File _____

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(s) Electromagnetic and Magnetic

Township or Area Otto

Claim Holder(s) Argentex Corporation Ltd.

Survey Company Prospecting Geophysics Ltd.

Author of Report H. J. Bergmann

Address of Author 70 Chiswell Crescent Willowdale, Ont. M2N 6E1

Covering Dates of Survey April - May 25, 1981 (linecutting to office)

Total Miles of Line Cut 45.94

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	20
--Radiometric	
--Other	
Geological	
Geochemical	

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

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

DATE: May 25/81 SIGNATURE: H. J. Bergmann
Author of Report or Agent

Res. Geol. _____ Qualifications 63,1061

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

See attached list

TOTAL CLAIMS 51

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 2140 Number of Readings Electromagnetic 2140 ~~Magnetometer 2434~~

Station interval 100 ft. Line spacing 400 ft.

Profile scale

Contour interval EM - Fraser filter values 20, Magnetometer 200 gammas.

MAGNETIC

Instrument G816 Portable Proton Magnetometer

Accuracy – Scale constant ± 1%

Diurnal correction method Base stations

Base Station check-in interval (hours) 2 hrs.

Base Station location and value See map

ELECTROMAGNETIC

Instrument ~~Geonics EM-16~~

Coil configuration

Coil separation

Accuracy ± 1%

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

Frequency Approx. 15-25 kHz Cutler, Maine (specify V.L.F. station)

Parameters measured Vertical in-phase component (tilt angle)
Vertical out-of-phase component (auadrature)

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

LIST OF CLAIMS

L545518
L545519
L545520
L545521
L545530
L545533
L545534
L545535
L545536
L545537
L545644
L548826
L548827
L548828
L548829
L548830
L548901
L548902
L548903
L548904
L550433
L550434
L550435
L550436
L550437
L550438
L550439
L550440
L550441
L550442
L550443
L550444
L550445
L550446
L550447
L550448
L550449
L550457
L550458
L550459
L550460
L550775
L550779
L550935
L550936
L550952
L550953
L550954
L550955
L550956
L550980

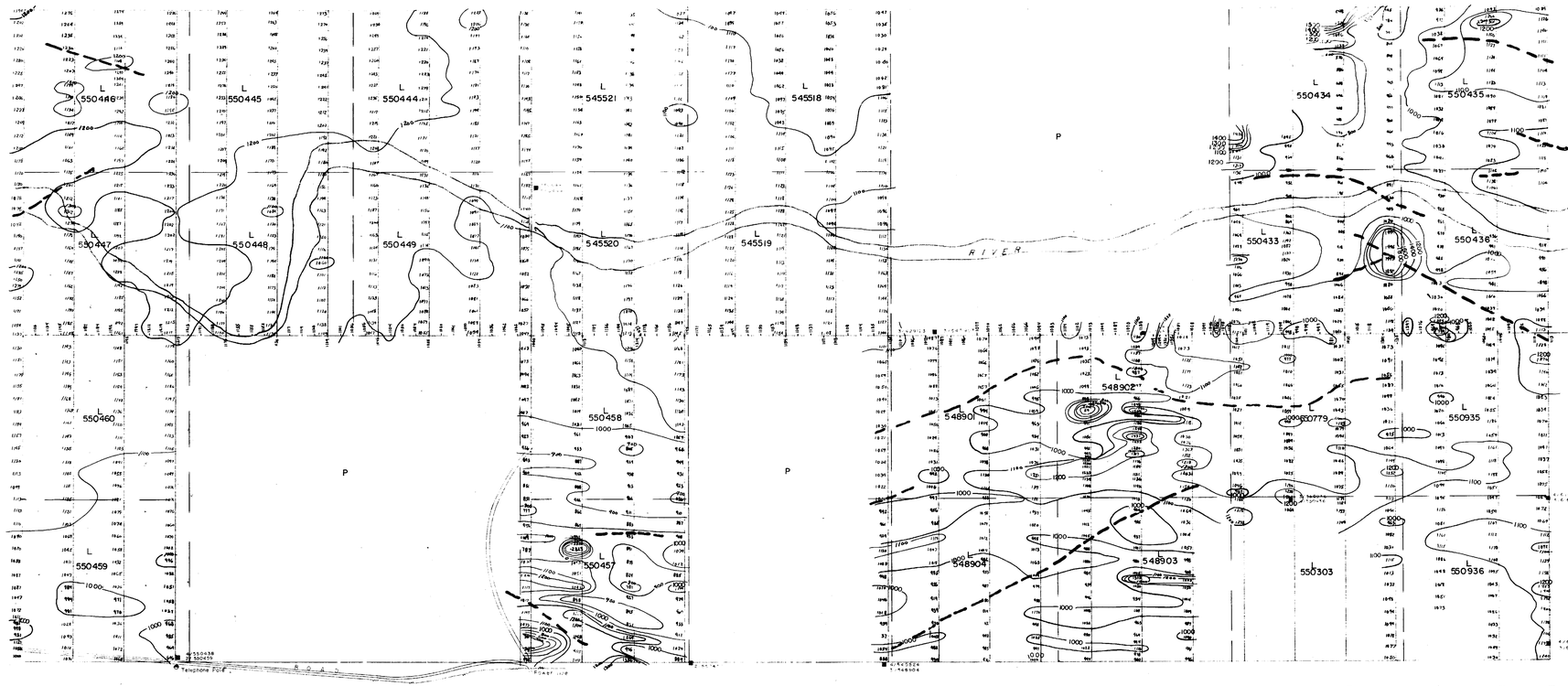
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	Mag	V.L.F.		Mag	V.L.F.		Mag.	V.L.F.
L:545518	✓	✓	L. 548901	✓	✓	L. 550445	✓	✓
19	✓	✓	02	✓	✓	46	✓	✓
20	✓	✓	03	✓	✓	47	✓	✓
21	✓	✓	04	✓	✓	48	✓	✓
545530	✓	✓	550433	✓	✓	49	✓	✓
545533	✓	✓	34	1/4	1/2	550457	✓	✓
34	✓	✓	35	✓	✓	58	✓	✓
35	1/4	1/4	36	✓	✓	59	✓	✓
36	✓	✓	37	✓	✓	60	✓	✓
37	1/4	1/4	38	1/2	1/4	550775	O	O
545644	✓	✓	39	✓	✓	550779	✓	✓
548826	✓	✓	40	✓	✓	550935	✓	✓
27	✓	✓	41	✓	✓	36	✓	1/4
28	✓	✓	42	O	O	550952	✓	✓
29	✓	✓	43	O	O	53	✓	✓
548830	✓	✓	550444	✓	✓	54	✓	✓
						55	✓	✓
						56	✓	✓
						550980	✓	✓

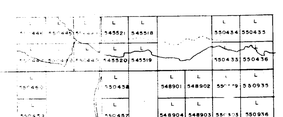
Dennis R.

LIST OF CLAIMS

L545518
L545519
L545520
L545521
L545530
L545533
L545534
L545535
L545536
L545537
L545644
L548826
L548827
L548828
L548829
L548830
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L550459
L550460
L550775
L550779
L550935
L550936
L550952
L550953
L550954
L550955
L550956
L550980







CLAIM MAP
1 inch = 40 Chains

LEGEND

- MEASUREMENT STATIONS ALONG PICKET LINES
- RECORDED READY OF EARTH TOTAL MAG FIELD READING ARE 58,000 PLUS PLOTTED VALUES
- MAGNETIC CONTOUR
- ELECTRICAL CONDUCTOR
- POWER LINE
- CLAIM POST
- ROAD
- SWAMP

TYPE OF WORK
MAGNETOMETER SURVEY.

CLIENT
ARGENTEX PROPERTY.

PROJET

AREA
OTTO TWP ONT.
2408

SCALE 1" = 400 ft.

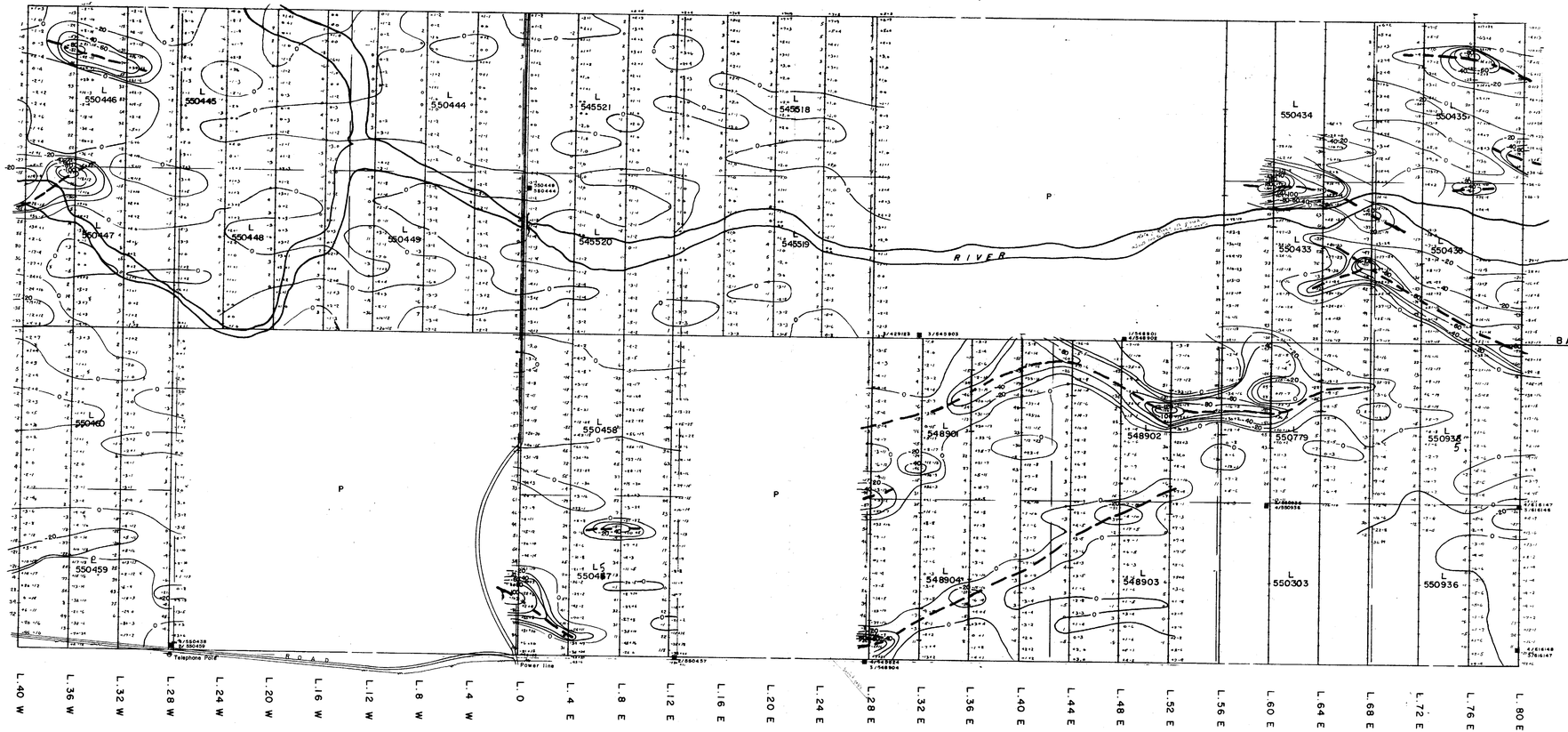
DATE APRIL: 1981

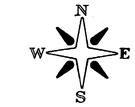
PROSPECTING GEOPHYSICS LTD.

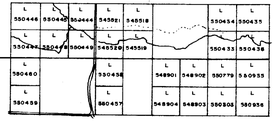
DRAWN BY
2408 Dept.

MAP OR SHEET
GRID 1

4240150B144 2.4086 OTTO







CLAIM MAP
1 inch = 40 Chains

LEGEND

- VERTICAL IN PHASE and VERTICAL OUT PHASE MEASUREMENT STATIONS ALONG PICKET LINES
- FRASER REDUCTION METHOD USED
- CONTOUR INTERVAL : -20
- ELECTRICAL CONDUCTOR
- INSTRUMENT USED : GEONICS EM-16
- CLAIM POST
- SWAMP
- POWER LINE
- ROAD

TYPE OF WORK EM 16	ELECTROMAGNETIC SURVEY.
CLIENT	ARGENTEX PROPERTY.
PROJECT	AREA OTTO TWP ONT.
PROSPECTING GEOPHYSICS LTD.	SCALE 1" = 400 ft.
	DATE APRIL : 1981
	DRAWN BY
	MAP OR SHEET GRID 1

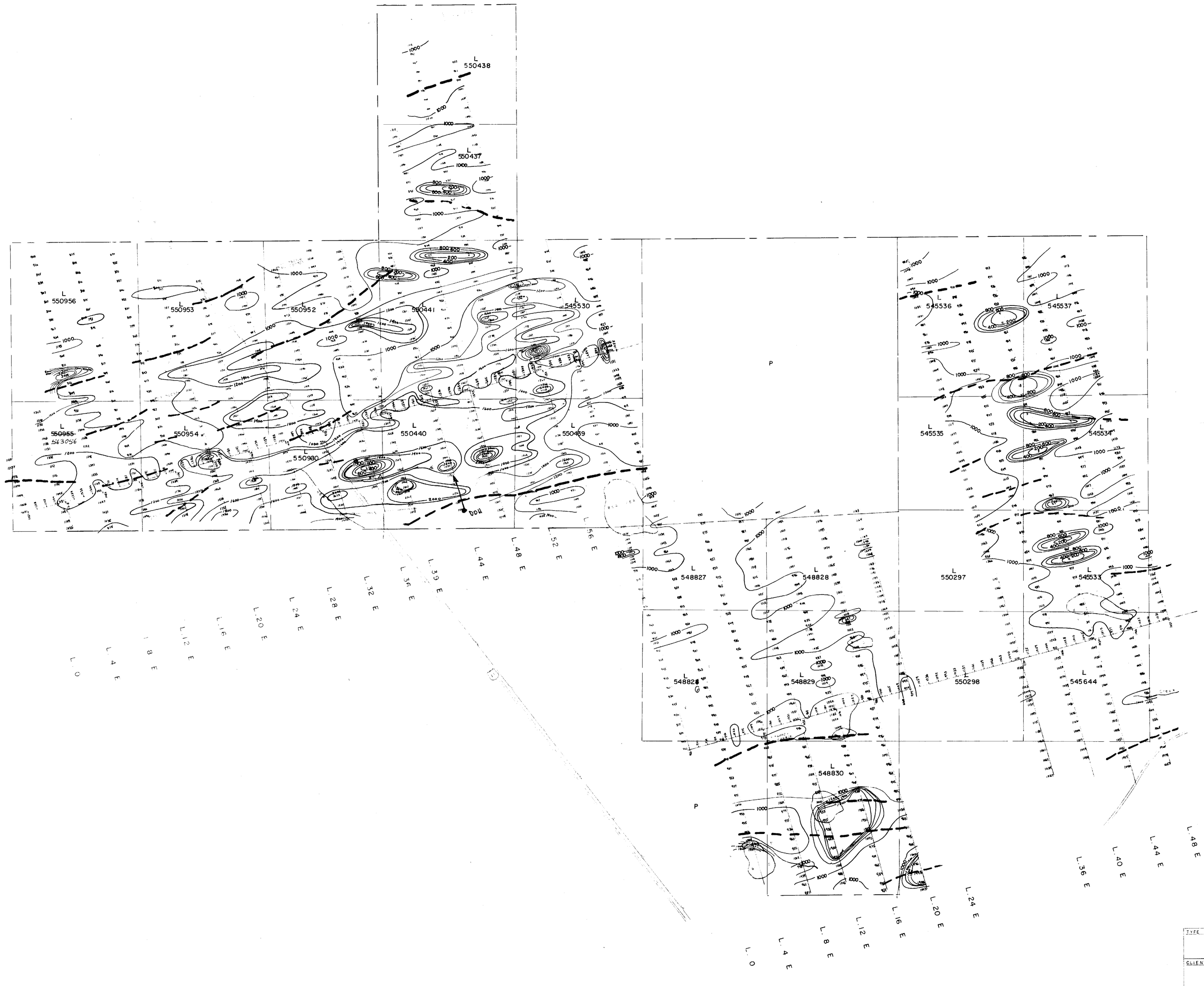
24086

210

R.III

R.II

R.I



R. III

R. II

R. I

CLAIM MAP
1" = 40 Chains

LEGEND

MEASUREMENT STATIONS ALONG PICKETS LINES RECORDED READY OF EARTH TOTAL MAG FIELD READINGS ARE 58,000 PLUS PLOTTED VALUES

MAGNETIC CONTOUR

ELECTRICAL CONDUCTOR

CLAIM POST

POWER LINE

ROAD

SWAMP

TYPE OF WORK
MAGNETOMETER SURVEY.

CLIENT
ARGENTEX PROPERTY.

PROJET

AREA
OTTO TWP ONT.
2.4086

SCALE
1" = 400 ft.

DATE
APRIL: 1981

PROSPECTING GEOPHYSICS LTD.

DRAWN BY

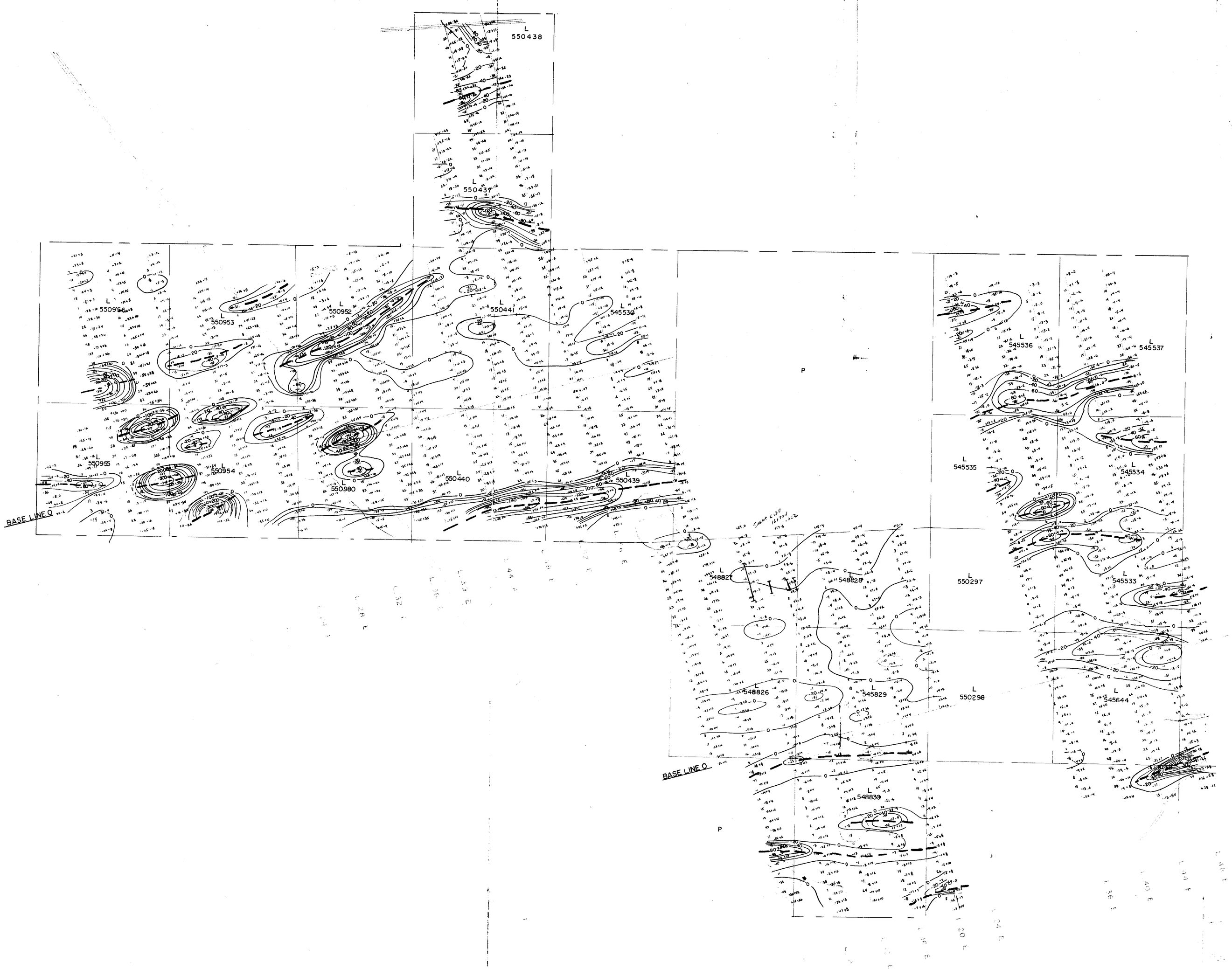
MAP OR SHEET
GRID: 2 and 3

42A81SE0144 2.4086 OTTO

R.III

R. II

R. I



R. III

R. II

R. I

FRASER — VERTICAL IN PHASE and VERTICAL OUT PHASE
MEASUREMENT STATIONS ALONG PICKET LINES
FRASER REDUCTION METHOD USED
CONTOUR INTERVAL
ELECTRICAL CONDUCTOR.
INSTRUMENT USED: GEONICS EM-16
CLAIM POST
POWER LINES
ROAD
SWAMP

EM-16

ELECTROMAGNETIC SURVEY.

ARCHIVED REPORT

24086

42A15E0144 2.4886 OTTO