42A01SE0155 2.3377 OTTO

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2.3377

MAGNETIC SURVEY

ON

OTTO 1-79 GROUP

OTTO AND GRENFELL TOWNSHIPS ONTARIO

Location and Access:

This group of 9 claims lies mostly in the north half of Lots 11 and 12, Concession V of Otto Township, Ontario.

A gravel road traverses the eastern most claim. This road may be followed for some three miles in a northerly direction to the village of Swastika, Ontario.

Claims and Numbers:

These are:

L. 511327 - S.W. 1/4 of the N 1/2 of Lot 12, Con. V of Otto Twp.

L. 311328 - S.E. 1/4 of the N 1/2 of Lot 12, Con. V of Otto Twp.

L. 311329 - S.E. 1/4 of the N 1/2 of Lot 1, Con. V of Grenfell Twp.

L. 311330 - N.W. 1/4 of the N 1/2 of Lot 12, Con. V of Otto Twp.

L. 311331 - N.E. 1/4 of the N 1/2 of Lot 12, Con. V of Otto Twp.

L. 311332 - S.W. 1/4 of the N 1/2 of Lot 11, Con. V of Otto Twp.

L. 511578 - N.W. 1/4 of the N 1/2 of Lot 11, Con. V of Otto Twp.

L. 311579 - N.E. 1/4 of the N 1/2 of Lot 11, Con. V of Otto Twp.

L. 311580 - N 1/4 W of the N 1/2 of Lot 10, Con. V of Otto Twp.

and comprise some 360 acres.

...../2

Linecutting:

Picket lines 300' apart with station intervals of 100' were cut and chained.

Some 12.8 miles of this work was done by R. Mainville, Contractor, of Senneterre, Quebec in the period April 15 to 28, 1980.

Magnetic Survey:

1. Assessment Data

The instrument used was a McPhar M700 Fluxgate magnetometer. Readings were taken at all of the 100' stations. The usual diurnal and datum adjustments were made and the corrected results were plotted and then contoured.

Some 725 (base, sub-base and line) stations were read by Sigouin and Hussey, Contractors, of Timmins, Ontario in the period May 10 to 15, 1980.

2. Magnetic Results

Geological mapping by the Ontario Department of Mines shows that this property is underlain by mafic and intermediate volcanic rocks. Within this general assemblage there are lesser amounts of dioritic and gabbroic flows.

Two anomalous areas were located, these are:

1. An irregularly shaped closure within the 1,000 gammae contour line which extends along the base line from about 600 S on Line 3 E to the western end of the grid.

2. Four small closures within the 1,000 gammae contour line at the north end lines 12 W to 21 W.

These areas may indicate underlying diorite or gabbro.

...../3

Work by earlier holders of these claims consisted of limited diamond drilling and test pitting. This programme revealed an uneconomic copper-gold sulphide showing on the north flank of anomalous area No. 1 and in the vicinity of 250 N on Lines 18 W and 21 W.

Conclusion:

This property should be surveyed with a horizontal loop E.M. system to determine if there are other sulphide occurrences.

Respectfully submitted,

John W. Britton, M.A., P. Eng.

Toronto, Ontario
July 9, 1980.

Ontario

Ministry of Natural Resources

File _____

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APP
FACTS SHOWN HERE NEED
TECHNICAL REPORT MUST CONTAIN

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900

Type of Survey(s) Geophysical/ Magnetic

Township or Area Otto

Claim Holder(s) Noranda Exploration Company, Limited

Box 45, Commerce Court West, Toronto, Ontario

Survey Company Sigouin & Hussey

Author of Report John W. Britton, M.A., P.Eng.

Address of Author Box 1205, Timmins, Ontario

Covering Dates of Survey April 15 - May 15, 1980
(linecutting to office)

Total Miles of Line Cut 12.8

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	
–Magnetometer	40
–Radiometric	
–Other	
Geological	
Geochemical	

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

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

DATE: July 11, 1980 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications 63.1282

Previous Surveys

File No.	Type	Date	Claim Holder
			L.D.

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
L	511327
L	511328
L	511329
L	511330
L	511331
L	511332
L	511578
L	511579
L	511580

TOTAL CLAIMS 9

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 725 Number of Readings 725

Station interval 100' Line spacing 300'

Profile scale

Contour interval 200 gammas

MAGNETIC

Instrument McPhar M-700 Fluxgate

Accuracy – Scale constant 20 gammas per scale division

Diurnal correction method closed loops of less than 1 hour duration and progressive fractoring

Base Station check-in interval (hours) 4 to 6 hours

Base Station location and value 0+00 B.L., 15E 490 gammas

ELECTROMAGNETIC

Instrument

Coil configuration

Coil separation

Accuracy

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

Frequency
(specify V.L.F. station)

Parameters measured

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

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

TECK TP. - M.392

12 11 10 9 8 7 6 5 4 3 2 1

VI

V

IV

III

II

I

EBY TP. - M.345

BOSTON TP. - M.332

MARQUIS TP. - M.362

THE TOWNSHIP OF OTTO

2.3377

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND	● or Ⓟ
CROWN LAND SALE	C.S.
LEASES	Ⓛ
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.
PATENTED S.R.O.	◒

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

DATE OF ISSUE
JUL 15 1980
SURVEYS AND MAPPING BRANCH

PLAN NO.- M-379

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

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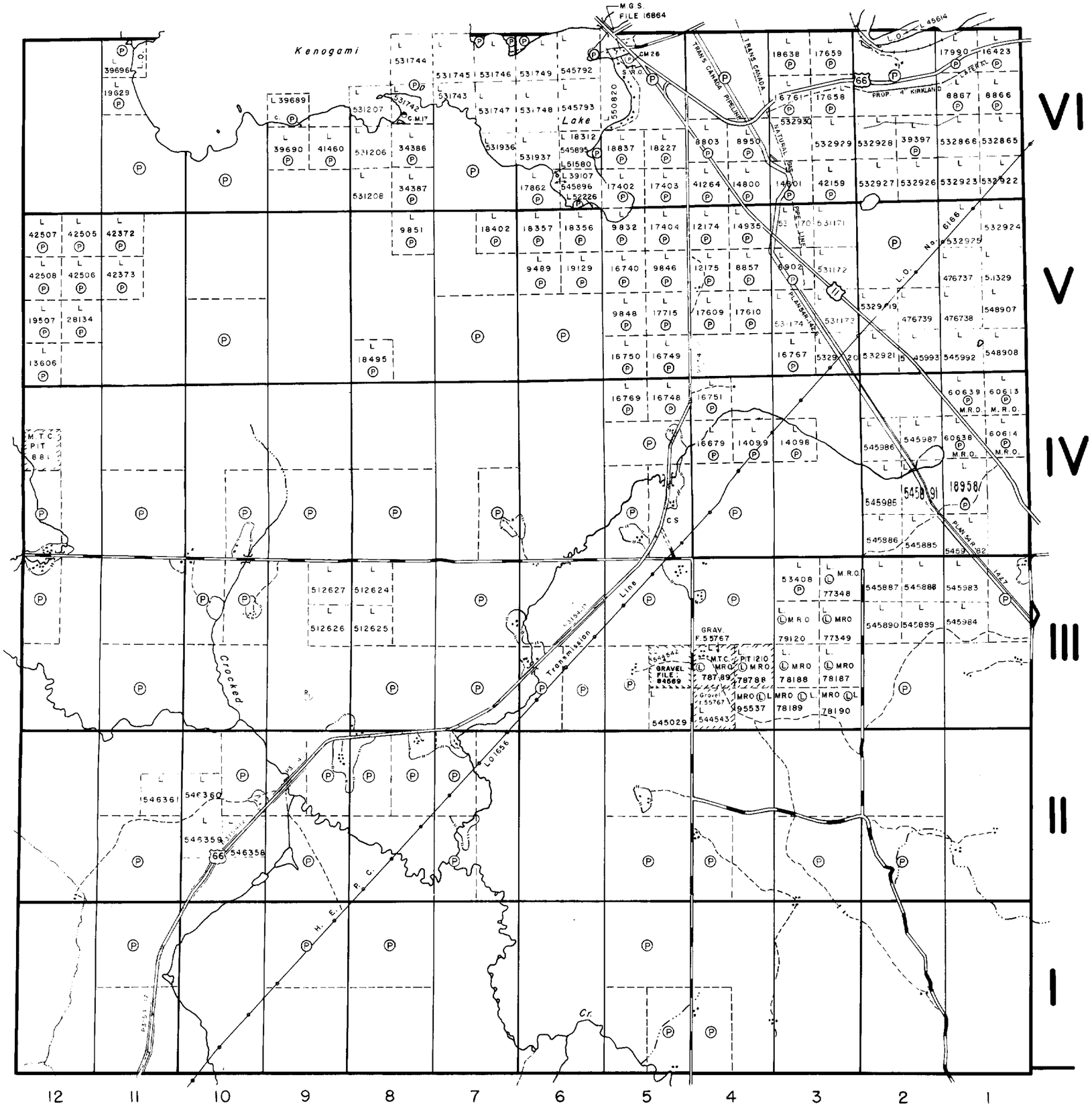
200

Grenfell Twp. M.351

Burt Twp. M.334

Otto Twp. M.379

Blain Twp. M.418



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210

K. Kalamov

THE TOWNSHIP OF 2.3377

EBY

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND	P
CROWN LAND SALE	C.S.
LEASES	L
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	C.
CANCELLED	

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

AREAS WITHDRAWN FROM STAKING
under Sec. 43 of The Mining Act (R.S.O. 1970).

Order No.	File	Date	Disposition

DATE OF ISSUE
JUL 15 1980
SURVEYS AND MAPPING BRANCH

PLAN NO.- M-345

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

L 550434

L 550435

L 550433

L 550436

OT 84-3

OT 84-4

1-548901
4-548902

48+00E

52+00E

56+00E

60+00E

64+00E

68+00E

72+00E

76+00E

80+00E

Base Line North Grid

26N

24N

22N

20N

18N

16N

14N

12N

10N

8N

6N

4N

2N

OT 84-1

OT 84-2

L 548902

L 550779

L 550935

2S

4S

6S

8S

10S

12S

4-550936

4-616147
3-616146

14S

16S

18S

20S

22S

24S

4-616148
3-616147

26S

L 548903

L 550303

L 550936

N

OTTO TWP
D.D. #18

JUN 18 1984

OTTO GROUP

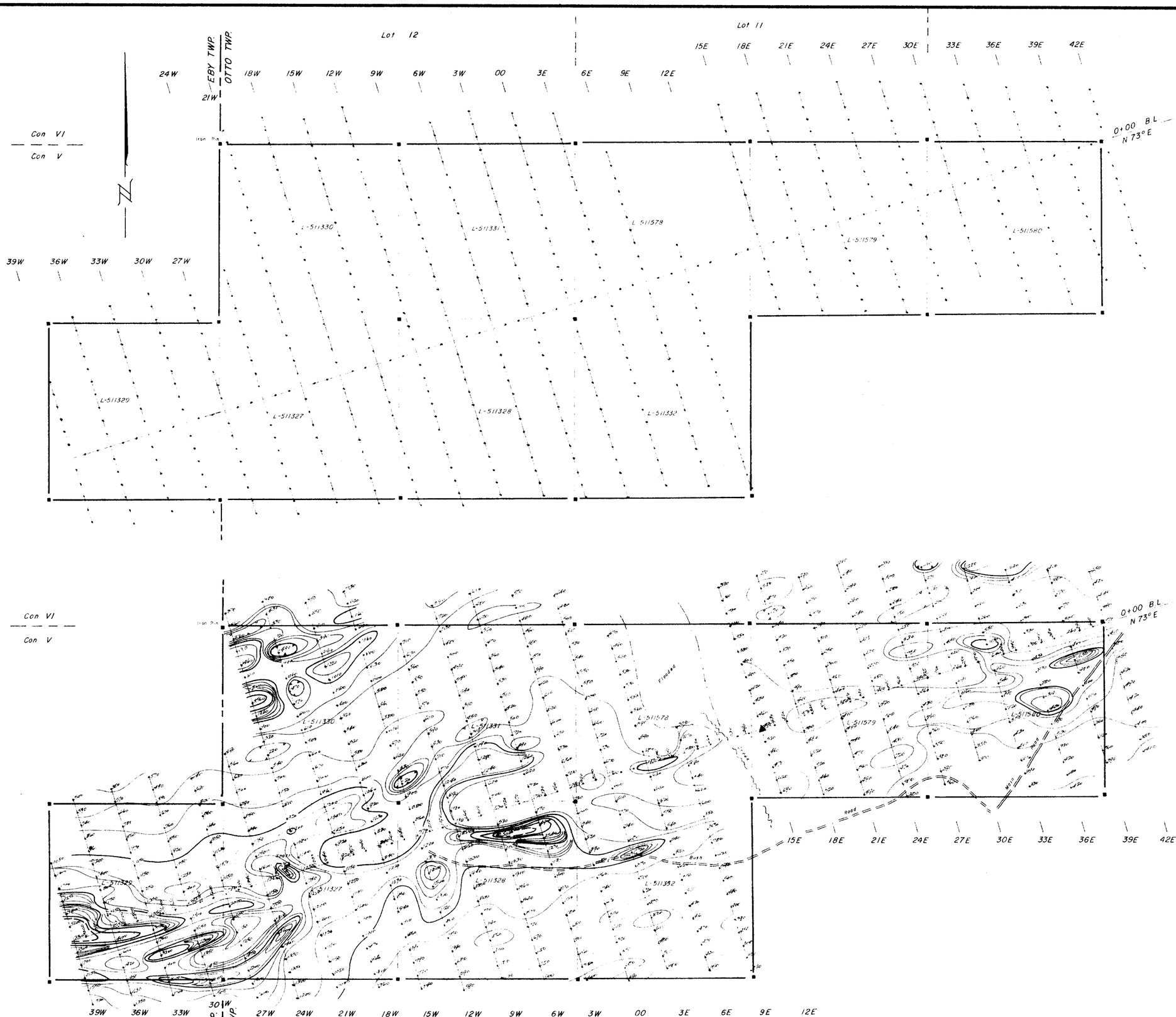
DRILL HOLE LOCATIONS
OTTO TOWNSHIP
LARDER LAKE MINING DIVISION
DISTRICT of TIMISKAMING, ONTARIO

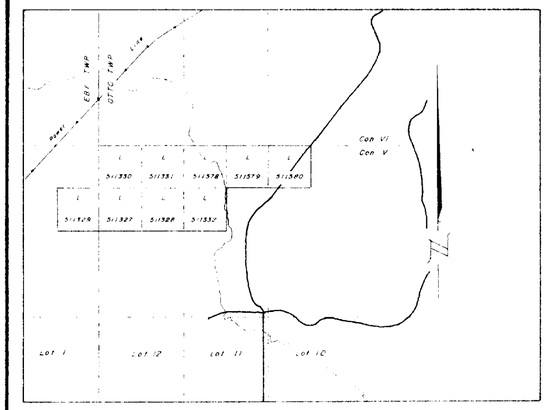
Scale 1"=200feet

ARGENTEX RESOURCE EXPL. CORP.

Drawn by S.J.C.	Drawing No. 1	Date June 84

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LOCATION PLAN
Otto 1-79
Scale 1" = 2640'

LEGEND

INSTRUMENT: McPhar Fluxgate M-700
READINGS: Directly in gammas
Isomagnetic Contours 500
Magnetic Depression
Magnetic Base Station
Contoured at: 200 gammas
No. of readings: 650
Dates of Survey: May 1980

REVISED
PROJ. Nº 925
N.T.S. 42 A 1
DWG. Nº

2.3377
Magnetic Survey
Otto 1-79
OTTO TWP ONTARIO

PROJECT: Croxall - Airsope Option
SURVEYED BY: DATE:
DRAWN BY: L A Waddell SCALE: 1" = 400'

NORANDA EXPLORATION CO. LTD.
OFFICE: Timmins, ONT.

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ST-8-005 #1 X3TSMART