

2.1059

RECEIVED

NOV 3 1972

PROJECTS
SECTION



41P15NW8244 2.1059 BANNOCKBURN

010

GEOLOGICAL AND GEOPHYSICAL SURVEYS
OF THE
BANNOCKBURN TOWNSHIP CLAIMS
OF
CANEX AERIAL EXPLORATION LTD.
(NTS 41-P-15)

Toronto.
September, 1972.

INTRODUCTION

The property consists of some 17 claims located in Bannockburn Township, Larder Lake Mining Division, Ontario or, more precisely, in the vicinity of, and partially overlying Zurbrigg and Charlewood Lakes. Access during summer via roads is available by following Highway 566, 17 miles west from Matachewan to its end and then following the logging road 3 miles south.

The claims are recorded in the name of F.H. Faulkner and J.O. Burns both employees of Canex Aerial Exploration Ltd.

contd. ...

TABLE OF FORMATIONS

5 Late Mafic Intrusions

- (a) gabbro
- (b) pyroxenite

Intrusive Contact

Fault Contact

4 Early Mafic Intrusions

Matachewan diabase

Intrusive Contact

Possible Fault Contact

3 Ultramafic Intrusions

- (a) serpentinite
- (b) peridotite
- (c) gabbro

Intrusive Contact

2 Intermediate Metavolcanics

- (a) medium grained flows
- (b) pillow lavas
- (c) tuffs

1 Felsic Metavolcanics

- (a) very fine to fine grained flows
- (b) breccia-fault
- (c) breccia-flow
- (d) tuff
- (e) porphyry

contd. ...

DESCRIPTION OF FORMATIONS1 Felsic Metavolcanics

(a) This rock unit comprises most of the rock outcrop on the property. Generally the rock is very fine to fine grained, white to brownish buff weathering, amygduloidal except for the most southeastern outcroppings, light green in colour on a fresh surface, dense, choncooidally fracturing rhyodacite or dacite. Locally up to 10% mafic minerals are present. Sericite and carbonate were recognizable alteration products.

Individual flows were not recognized so that unit widths could not be ascertained.

(b) What may be fault breccia was noted at two localities within the BL-E grid area. The better example on BL-E at 13+25N consists of angular to subrounded fragments up to one inch in diameter. Although exposure is particularly good at this location no contacts or strike direction could be defined owing to the presence of flow breccia, as well as carbonatization. It is quite possible that the rock may be a lapilli tuff.

(c) Flow breccia was recognized at scattered localities. Carbonate is usually present.

(d) The best example of tuff occurs along a cliff face on BL-C grid at 36S - 6+00E. Here the rock is well bedded, light grey to black, medium to very fine grained, with one foot to 1/16 inch units. Graded bedding was sufficiently well developed to be used for top determination.

contd. ...

(e) Porphyritic felsic metavolcanics were noted at a few locations but they do not appear to be in great quantities. The rock is essentially the same as 1(a) except that the white to pinkish feldspar phenocrysts that are present are up to 1/4 inch in diameter and up to 10% in volume

2 Intermediate Metavolcanics

(a) Andesitic flows are generally medium grained, dark green and massive. Compared with the felsic metavolcanics the rock is rare.

(b) Pillow lavas were definitely identified at one outcrop at the south end of Zurbrigg Lake. Both bun and balloon pillows of about one foot diameter are present and give a good indication of tops.

(c) Only in one outcrop were andesite tuffs seen and that was at BL-A grid 0 - 3+75N. Acidic shards are visible within the andesitic matrix.

3 Mafic to Ultramafic Intrusions

(a) Serpentinite outcrops at one locality only, that being on "A" grid at 12W - 6+00N. The rock is dark green to black, magnetic and fine grained. No outline of the former mineral constituents are visible.

The contact with the felsic volcanics is sharp but irregular. At places 2-inch fragments of acid volcanics occur within the serpentinite.

(b) The drill logs of 54-36 Inc. contain references to peridotite. As no description was given the unit may also be dunite or serpentinite.

(c) At 12+00S on line 20W "A" grid there is a single outcrop of gabbro in contact with acid volcanics. The rock is considered to belong to the ultramafic sequence of intrusions as the outcrop is removed from either the main fault structure or the topographic lineaments.

4 Early Mafic Intrusions

The gabbroic type rocks near the east end of BL-A have been classified as Matachewan diabase since they meet the general description as given by Rickaby and since they are intimately associated with north-south striking lineaments recognized on the air photographs.

The rock shows a wide variation from fine to coarse grained and dioritic to gabbroic in composition. Composition of the gabbroic phase is about 48% plagioclase, 48% pyroxene, plus minor hornblende, plus quartz and ilmenite (Rickaby). A diabasic texture is well developed, particularly in the coarser phases.

Diorites are minor in quantity and occur at the east end of BL-A notably where the main fault cuts through. Thus the diorite may be an alteration phase of the diabase. Quartz is present in amounts up to 5% while mafics are less than 10%.

5 Late Mafic Intrusions

(a) The gabbro in filling the fault is much the same as the Matachewan diabase excepting that it does not show the wide variations of grain size and composition. Grain size is usually medium while composition matches that of the average diabase. However, as a magnetic pattern does exist over the dyke, magnetite must be present in modest amounts.

(b) A very mafic, fine grained crystalline rock assumed to be pyroxenite was seen only as 6 inch border phases of the above unit at BL-A 16W - 2+50N. Here the contacts with the volcanics are very sharp and regular.

contd. ...

MINERALIZATION

Pyrite and pyrrhotite are common throughout the volcanics and may form up to 10% of an individual sample. The sulphides occur with the amygdules or in fractures. Chalcopyrite is rare. Two samples, #31676 and #31678, did not assay significantly.

A boulder alongside the road between 16W and 20W "A" grid contained 0.29% Cu. The origin of the boulder is unknown.

In addition to the above, 54-36 Inc. mention in the drill logs cutting sulphides and in particular, chalcopyrite. (See holes 4, 11 and 12-67). Asbestos is mentioned as being present as well.

STRUCTURAL GEOLOGY

Very few structural observations could be made in the field, due mostly to the bland nature of the felsic volcanics. However, top determinations were made at two localities and show tops to the NE on "A" grid, but to the SE on "C" grid. Although two readings are insufficient for proper interpretation, the possibility exists that the felsic metavolcanics area represents a conical volcanic centre.

Magnetics however do show a strong structure continuous across "A" grid just below the baseline. This is the same fault structure delineated from aeromagnetic map 2876 (Matachewan Sheet). Both contacts of this fault may be seen on line 16W at 2+50 and just east of 16W near hole 12-67. Both contacts are extremely sharp. A pronounced gully overlies the fault.

contd. ...

Another fault related to this major fault connects points L16W-7+00N and BL-A 9+00W. Supporting evidence is found from magnetic data and the felsic volcanic fragments within the serpentinite at 12W - 6+00N.

Some prominent topographic lineaments that show on air photographs have been transferred to the map.

GEOLOGICAL INTERPRETATION

Briefly, the sequence of events is as follows:

- (1) Extrusion of the felsic volcanics together with intermediate volcanics.
- (2) Intrusion of the mafic to ultramafic sills.
- (3) Faulting in a N-S direction with the intrusion of the Matachewan diabase.
- (4) Faulting NW-SE with the intrusion of the late mafic bodies.

GEOPHYSICS

The property was surveyed by vertical loop E.M. and magnetometer employing a Scintrex model SE.600 unit operating at 1600 Hz and a Sharpe MF-1 magnetometer. The parallel line technique (broadside array) working along lines 400' apart was used. The magnetics were run at 100' stations on lines 400' apart. However, station interval was reduced to 25' and 50' in areas of high magnetic relief.

contd. ...

The E.M. survey remained consistently flat throughout the two grid areas with the exception of two very minor cross-over responses. One of these is observed on lines 24W and 28W at about 19+50N. This cross-over is very weak (maximum 6° peak to peak) and falls on a strong magnetic structure. This structure follows a strong fault and can be seen from the aeromagnetic data on map 2876^{G?}.

The E.M. response is within a zone of peridotite as mapped and interpreted from the high magnetics. It is believed that the E.M. response reflects the shear.

A further magnetic high is seen on lines 28W and 32W at 5+00N and 3+00N respectively. This is interpreted as a small zone of peridotite with minute amounts of magnetite within.

On the south grid (Claims 332284, 285) a large magnetic anomaly extending from about 2+00N to 16+00S was observed. Again, this is due to a zone of peridotite containing very minor amounts of magnetite. Drilling by 54-36 Inc. indicated peridotite to be present in this area.

Some minor E.M. activity was detected on lines 28S and 32S at 6+00E and 5+00E respectively. This response however is probably due to topographic features rather than conduction.

contd. ...

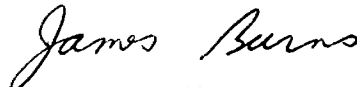
RECOMMENDATIONS

The anomaly on "B" grid outlined by the vertical loop E.M. survey is probably caused by a conductive shear within the peridotite. However, one test hole of minor priority is recommended based on the following facts:

- (a) Sulphides were noted in hole 11 of 54-36 Inc., i.e. in the faulted-off block of the same peridotite.
- (b) Sulphides are known in other peridotites within the immediate area.
- (c) The peridotites of this area are believed to be of the same age as those in Sothman Township where Falconbridge drilled off a small nickeliferous body within a peridotite.

Suggested location for the test hole is at Line 28W - 18+30N, "B" grid.

Respectfully Submitted



James G. Durns

JGB/of

References: O.D.M. Annual Report Vol.XLI, Part II, 1932 by H.C. Rickaby
54-36 Inc., Filed assessment work.
Aeromagnetic Map 2876G, Matachewan Sheet
Canex Aerial Exploration Ltd. - Geological and Geophysical Surveys.



Ministry of Natural Resources

Fred W. Matthews, Supervisor, Projects Section, Ministry of Natural Resources, Whitney Block Parliament Buildings, Toronto



41P15NW8244 2.1059 BANNOCKBURN

900

SEP 28 1972

NOTIFICATION OF RECORDING OF ASSESSMENT WORK CREDITS

Date of Recording of Work September 26, 1972
Recorded Holder F. H. Faulkner and James G. Burns
Township or Area Bannockburn Township

Table with 2 columns: Type of Survey and number of Assessment Days Credits per claim. Rows include GEOPHYSICAL (Airborne, Ground), Magnetometer, Electromagnetic, Radiometric, GEOLOGICAL, GEOCHEMICAL, and SECTION 86 (18).

Table with 1 column: Mining Claims. Lists claim numbers (L 328706-13, L 332280-85) and recording dates (October 14, 1971 and October 1, 1971).

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.

Handwritten signature of Mining Recorder

- c.c. Mr. F. H. Faulkner, 8 Rollins Place, Islington, Ontario.
c.c. Mr. James Burns, 39 Dale Avenue, Scarborough, Ontario.

Telephone (705) 567-3010 When replying kindly quote this file number

Handwritten note: above 15

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 Linecutting & Electromagnetic
Township or Area Bannockburn Township
Claim holder(s) F.H. Faulkner & J. Burns
2600, 401 Bay Street, Toronto
Author of Report Mr. J. Burns
Address 39 Dale Ave., Scarborough, Ont.
Covering Dates of Survey August 5 - September 6, 1972
(linecutting to office)
Total Miles of Line cut 12.38

MINING CLAIMS TRAVERSED	
List numerically	
L-328706	(40 days)
L-328707	(40 days)
L-328709	(40 days)
L-328710	(40 days)
L-328711	(40 days)
L-328712	(40 days)
L-328713	(40 days)
L-328715	(40 days)
L-332280	(40 days)
L-332282	(40 days)
L-332283	(40 days)
L-332284	(40 days)
L-332285	(40 days)
<u>2 crossed claims</u>	
<u>20 days</u>	
<u>Others 40 days each</u>	
TOTAL CLAIMS <u>13</u>	

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim	
ENTER 40 days (includes line cutting) for first survey.	40 days	12 cls
ENTER 20 days for each additional survey using same grid.	20 days	12 cls

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

DATE: 26/9/72 SIGNATURE: James Burns
Author of Report or Agent

PROJECTS SECTION
Res. Geol. _____ Qualifications 63A.476

Previous Surveys 13.2 2001 June in 1966 (see report)
diff. between L&D

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

OFFICE USE ONLY

If space insufficient, attach list

Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 504 Number of Readings 504
Station interval 100'
Line spacing 400'
Profile scale or Contour intervals 1" = 20'
(specify for each type of survey)

MAGNETIC

Instrument _____
Accuracy - Scale constant _____
Diurnal correction method _____
Base station location _____

ELECTROMAGNETIC

Instrument Scintrex SE.600 Vertical Loop
Coil configuration Vertical
Coil separation 400'
Accuracy _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 1600 Hz
(specify V.L.F. station)
Parameters measured Dip Angles

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 _____

**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 Magnetometer
 Township or Area Bannockburn Township
 Claim holder(s) F.H. Faulkner and J. Burns
2600, 401 Bay Street, Toronto
 Author of Report Mr. J. Burns
 Address 39 Dale Ave., Scarborough, Ont.
 Covering Dates of Survey August 5 - September 6, 1972.
 (linecutting to office)
 Total Miles of Line cut 12.38

MINING CLAIMS TRAVERSED	
List numerically	
L-328706	
(prefix)	(number)
L-328707	
L-328709	
L-328710	
L-328711	
L-328712	<u>3 traversed</u>
L-328713	
L-328715	
L-332280	
L-332282	
L-332283	
L-332284	
L-332285	
<u>1/2 covered claims</u>	
<u>10 days</u>	
<u>Others 20 days each</u>	
<u>g</u>	
TOTAL CLAIMS <u>13</u>	

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical - Electromagnetic _____ - Magnetometer <u>20</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: 26/9/72 SIGNATURE: James Burns
 Author of Report or Agent

PROJECT'S SECTION
 Res. Geol. _____ Qualifications _____
 Previous Surveys _____

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

OFFICE USE ONLY

Show instrument technical data in each space for
type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 654 Number of Readings 788
Station interval 100' with some at 50'
Line spacing 400'
Profile scale or Contour intervals 500 gamma contours
(specify for each type of survey)

MAGNETIC

Instrument Sharpe MF-1 Fluxgate Magnetometer
Accuracy - Scale constant 20 gammas on the 1000 gamma range
Diurnal correction method Daily corrections tying into Base Stations established
Base station location Along Base Lines where required

ELECTROMAGNETIC

Instrument _____
Coil configuration _____
Coil separation _____
Accuracy _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency _____
(specify V.I.F. station)

Parameters measured _____

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 _____

**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 Geological
 Township or Area Bannockburn Township
 Claim holder(s) F.H. Faulkner and J. Burns
2600, 401 Bay Street, Toronto
 Author of Report Mr. J. Burns
 Address 39 Dale Ave., Scarborough, Ont.
 Covering Dates of Survey August 5 - September 6, 1972.
(linecutting to office)
 Total Miles of Line cut 12.38

MINING CLAIMS TRAVERSED
List numerically

- L-328706
(prefix) (number)
- L-328707
- L-328709
- L-328710
- L-328711
- L-328712
- L-328713
not covered
- L-328715
- L-332280
- L-332282
- L-332283
- L-332284
- L-332285

If space insufficient, attach list

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

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

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

DATE: 26/9/72 SIGNATURE: J. Burns
Author of Report or Agent

PROJECTS SECTION

Res. Geol. _____ Qualifications _____

Previous Surveys _____

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

TOTAL CLAIMS 13

OFFICE USE ONLY

Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations _____ Number of Readings _____
Station interval _____
Line spacing _____
Profile scale or Contour intervals _____
(specify for each type of survey)

MAGNETIC

Instrument _____
Accuracy - Scale constant _____
Diurnal correction method _____
Base station location _____

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 _____
Time domain _____ Frequency domain _____
Frequency _____ Range _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

ARGYLE TWP. - M.203

MONTROSE TWP. - M.237

POWELL TWP. - M.241

DOON TWP. - M.217

THE TOWNSHIP OF

BANNOCKBURN

claim map

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	⊙
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.

NOTES

400' surface rights reservation around all lakes and rivers.

Summer resort locations patented for surface rights only shown thus ⊙

DATE OF ISSUE

NOV 9 1972

ONT. DEPT. OF MINES
AND NORTHERN AFFAIRS

PLAN NO. **M.207**

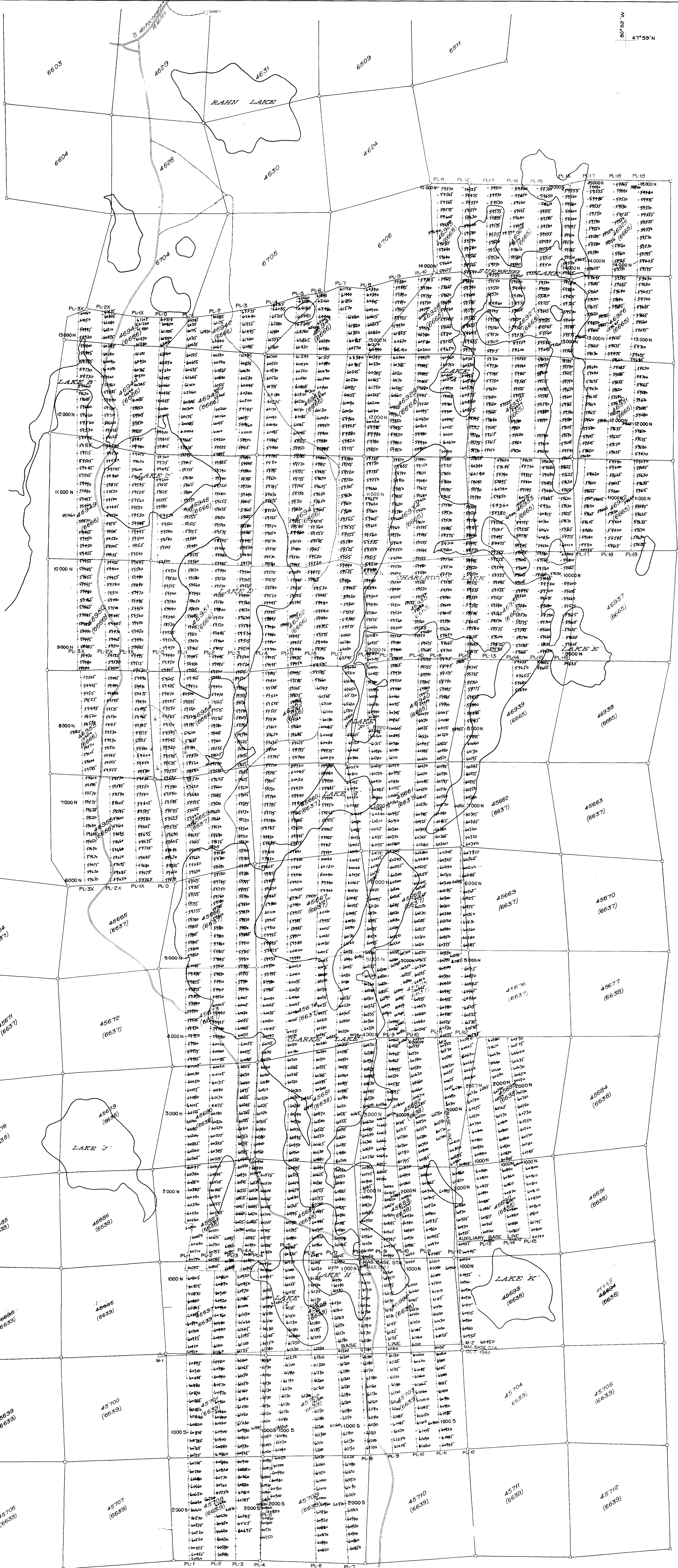
**ONTARIO
DEPARTMENT OF MINES
AND NORTHERN AFFAIRS**



41P15N#244 2.1059 BANNOCKBURN

200

2.1059



MONTROSE TWP.

DOON TWP.

- LEGEND**
- Main log haul road (gravel surface)
 - Other logging roads
 - Location of claim corner
 - Claim line
 - Magnetometer survey control line
 - Claim number: Number below in parentheses indicates number of Miner's License
 - Base line
 - △M-2 Location of iron pin
 - Boundary of Miner's Licenses outlined in green
 - Magnetometer survey station. Value in gamma.

SCALE: 1 INCH = 400 FEET

54-36 INC.

JAMES W. SEWALL COMPANY, OLD TOWN, MAINE

ONTARIO PROJECT
BANKSBOURNE TOWNSHIP, DISTRICT OF TIMSKAMING
PROVINCE OF ONTARIO, CANADA

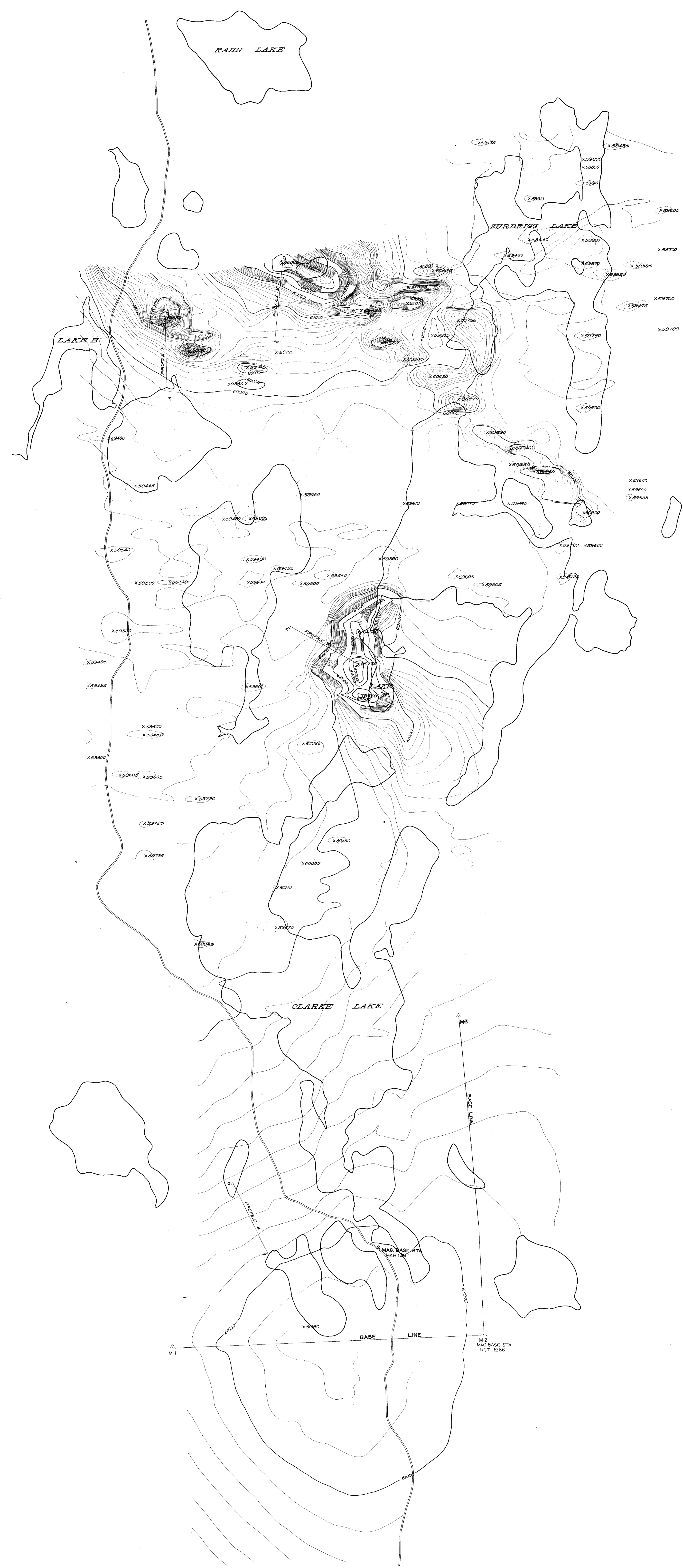
COVERS DATES OF MAGNETOMETER SURVEYS:
OCTOBER - OCTOBER 8, 1966
MARCH 2 - MARCH 26, 1967

CLAIM AND CONTROL MAP

SIGNATURE *[Signature]*

(BASE SHEET FOR MAGNETOMETER SURVEY MAP) MAP 4-1967

W 89° 52' 41" 59" N



LEGEND

- 60000 Magnetic contour. Values show total intensity of earth's magnetic field in gammas.
- x2508 Location of measured maximum or minimum intensity within closed magnetic high or closed magnetic low.
- Indicates closed area of low magnetic intensity.
- Base station - Magnetometer Survey of March, 1967. Value: 61050 gammas.
- Area of magnetometer survey, October, 1966, outlined in red.

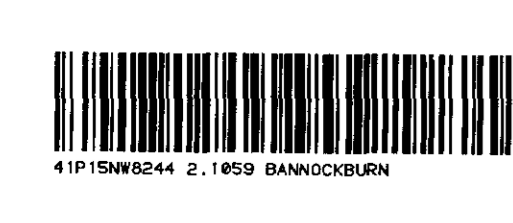
SCALE: 1 INCH = 400 FEET
 CONTOUR INTERVAL - 100 GAMMAS
 COVERING DATES OF MAGNETOMETER SURVEYS:
 OCTOBER 1 - OCTOBER 8, 1966
 MARCH 2 - MARCH 26, 1967
 JAMES W SEWALL COMPANY, OLD TOWN, MAINE

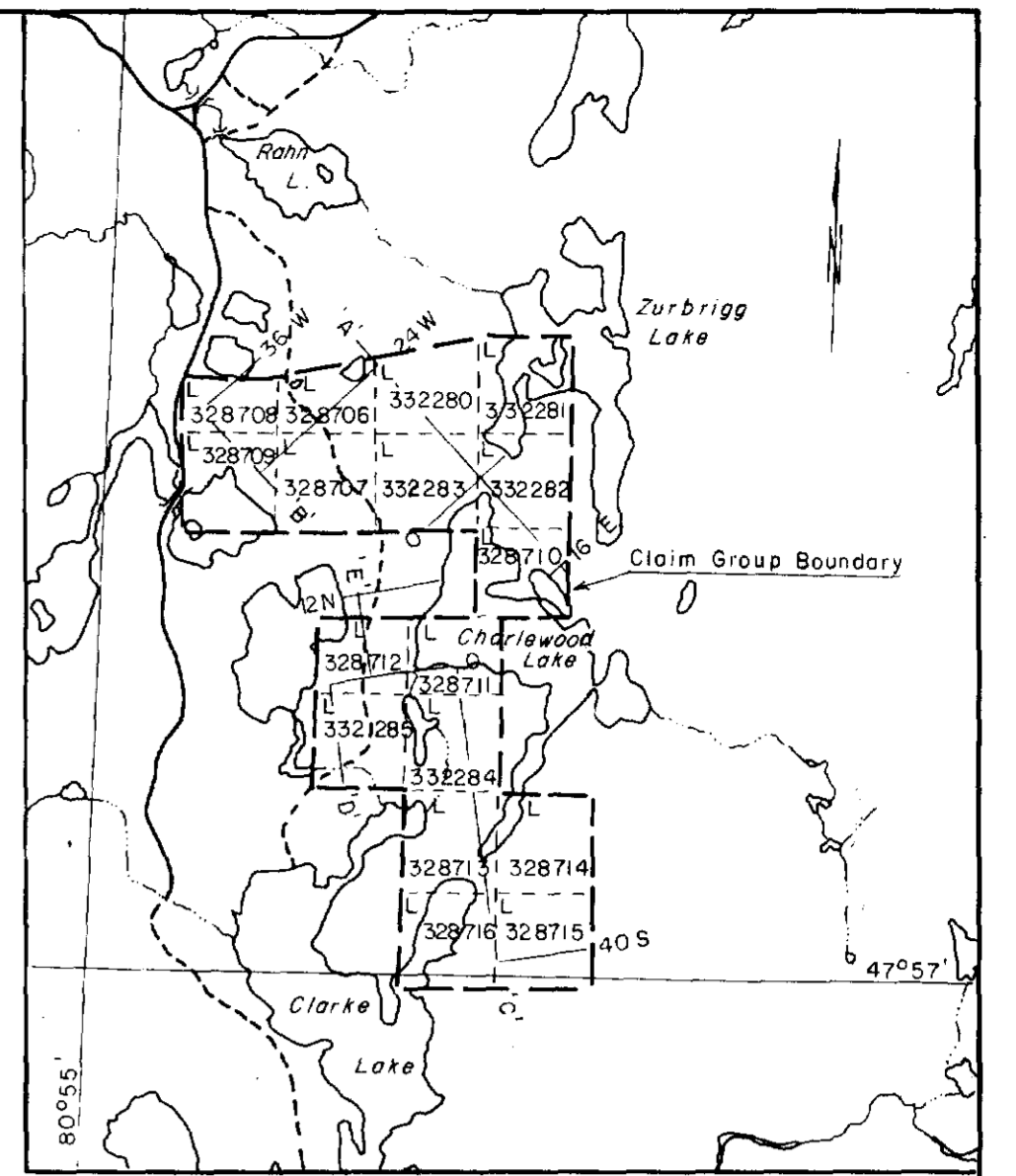
SIGNATURE *[Handwritten Signature]*

54-36 INC.

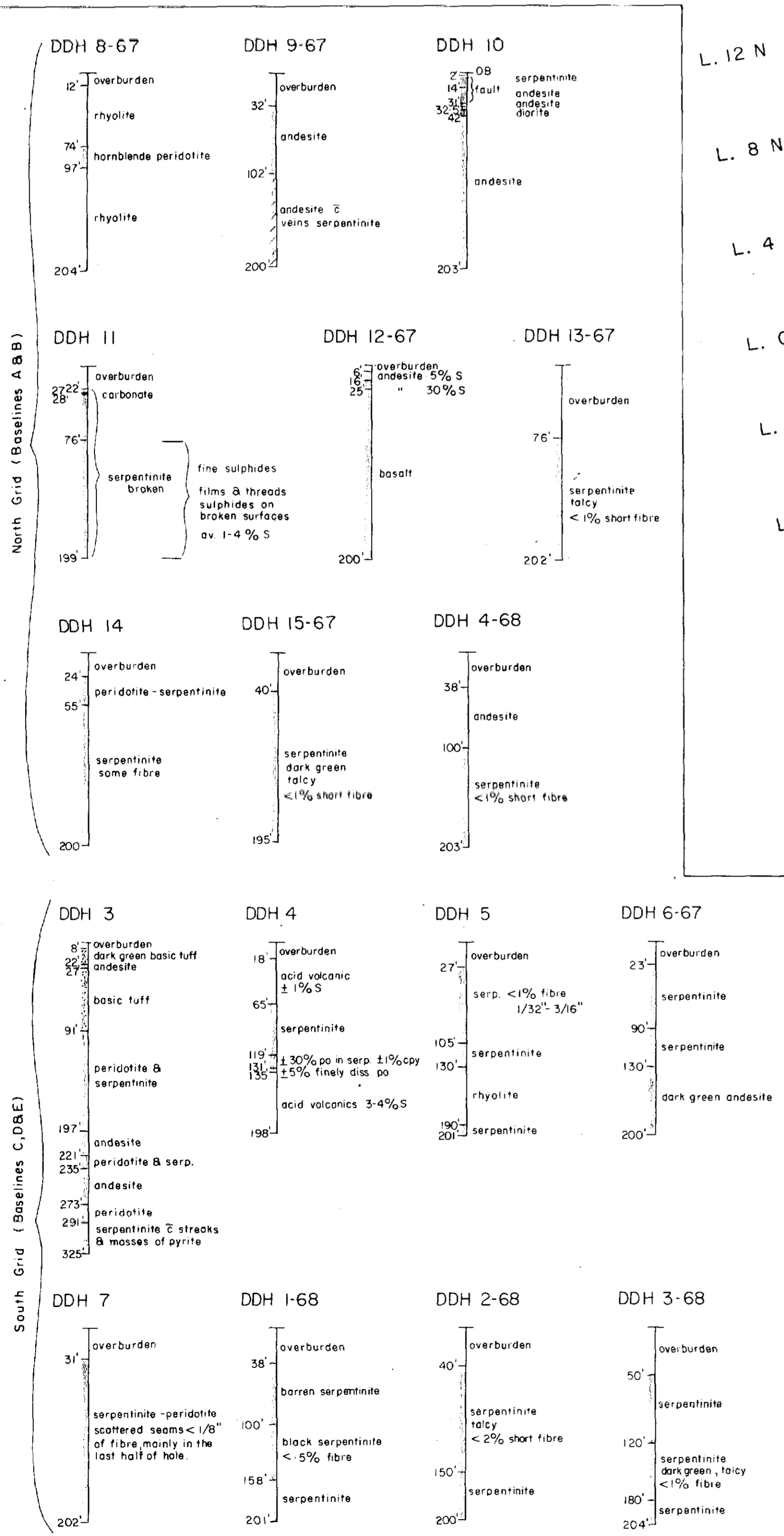
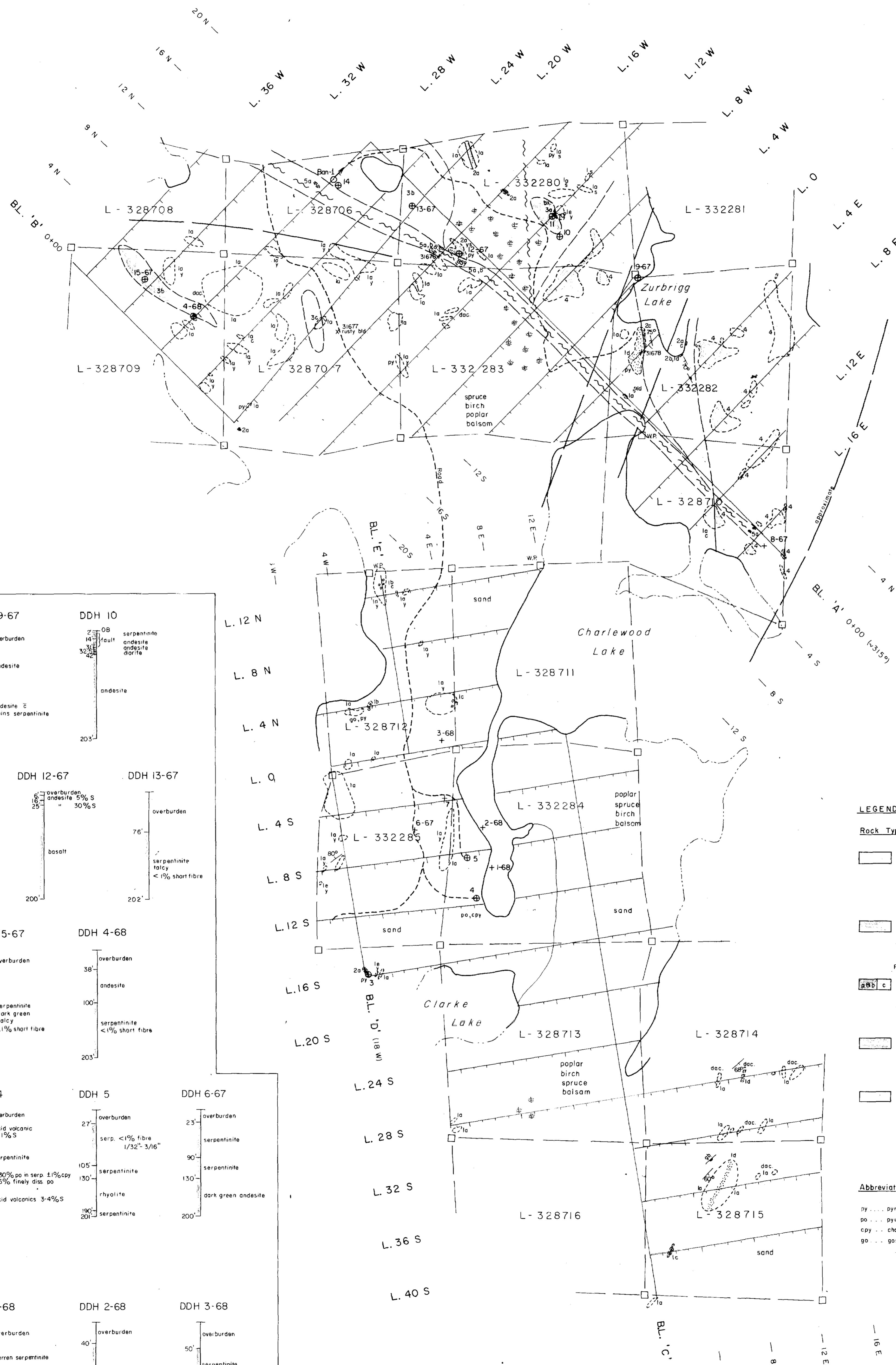
ONTARIO PROJECT
 BANNOCKBURA TOWNSHIP, DISTRICT OF TIMISKAMING
 PROVINCE OF ONTARIO, CANADA

MAGNETOMETER SURVEY MAP





LOCATION OF CLAIM GROUP
Bannockburn Twp., Ont.
Scale: 1" = 2640'
(Ref. Claim map M-207)



Vertical Sections of holes drilled
by 54-36 Inc.
(all holes vertical)

Vertical Scale: 1" = 100'

LEGEND

Rock Types

- 5 Late Mafic intrusions
 - (a) gabbro
 - (b) pyroxenite
- Intrusive Contact
- Fault Contact
- 4 Early Mafic intrusions
 - Matachewan diabase
- Intrusive Contact
- Possible Fault Contact
- 3 Ultramafic intrusions
 - (a) serpentinite
 - (b) peridotite
 - (c) gabbro
- Intrusive Contact
- 2 Intermediate Metavolcanics
 - (a) medium grained flows
 - (b) pillow lavas
 - (c) tuff
- 1 Felsic Metavolcanics
 - (a) very fine to fine grained flows
 - (b) breccia - fault
 - (c) breccia - flow
 - (d) tuff
 - (e) porphyry

Symbols

- Lakeshore - observed assumed
- Swamp
- Road
- Claim post & boundary
- Witness post
- Topographic lineament
- Geological contact - observed, assumed
- Fault
- Outcrop
- Bedding
- Pillow top
- graded bedding
- Tuff
- Breccia
- Rock sample location & number
- Vertical diamond drill hole (54-36 Inc.) - located, location approx.
- Recommended diamond drill hole (CAEL, 1972)

Abbreviations

- py ... pyrite
- po ... pyrothite
- cpy ... chalcopyrite
- go ... gossan
- dac ... dacite
- s ... sericite
- c ... carbonate
- y ... amygdalites

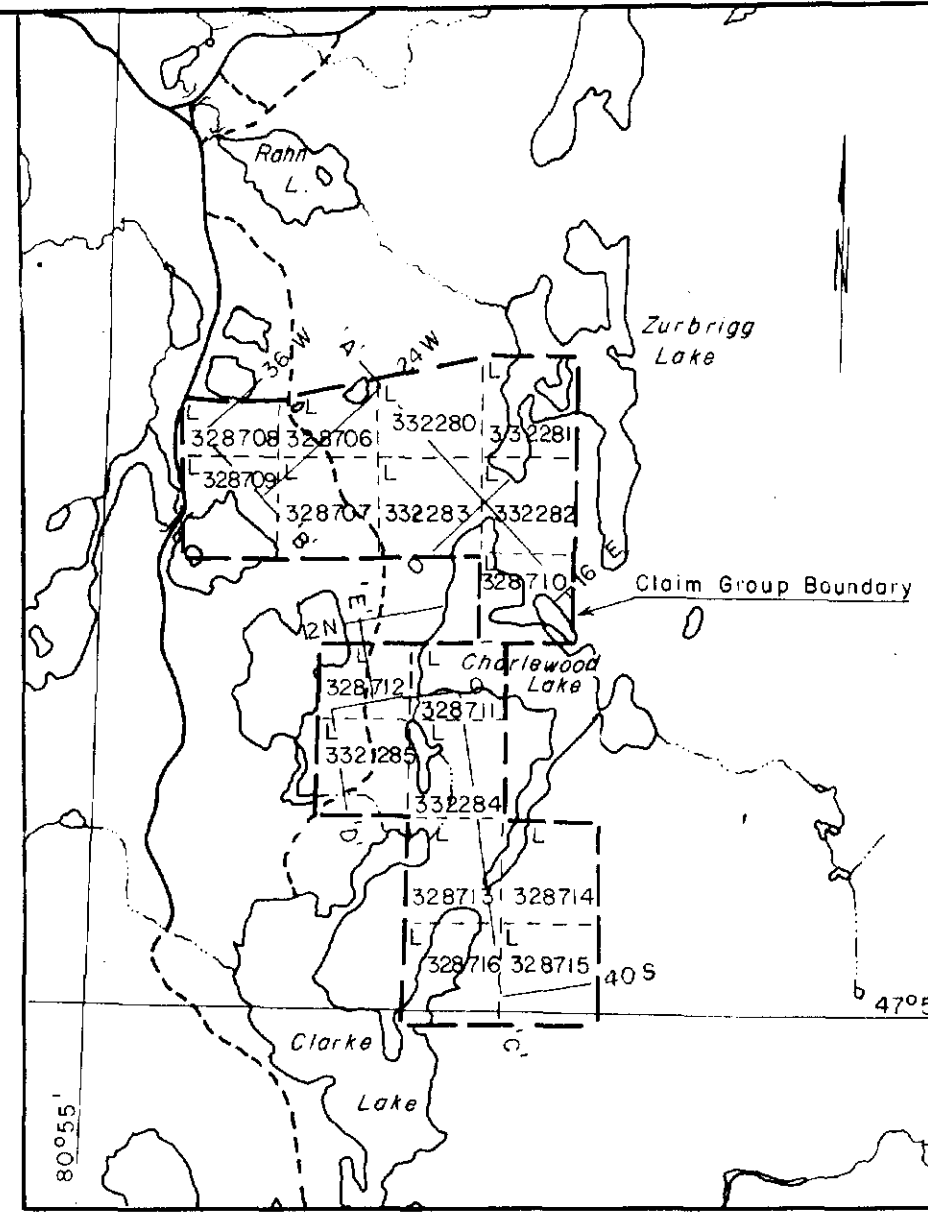
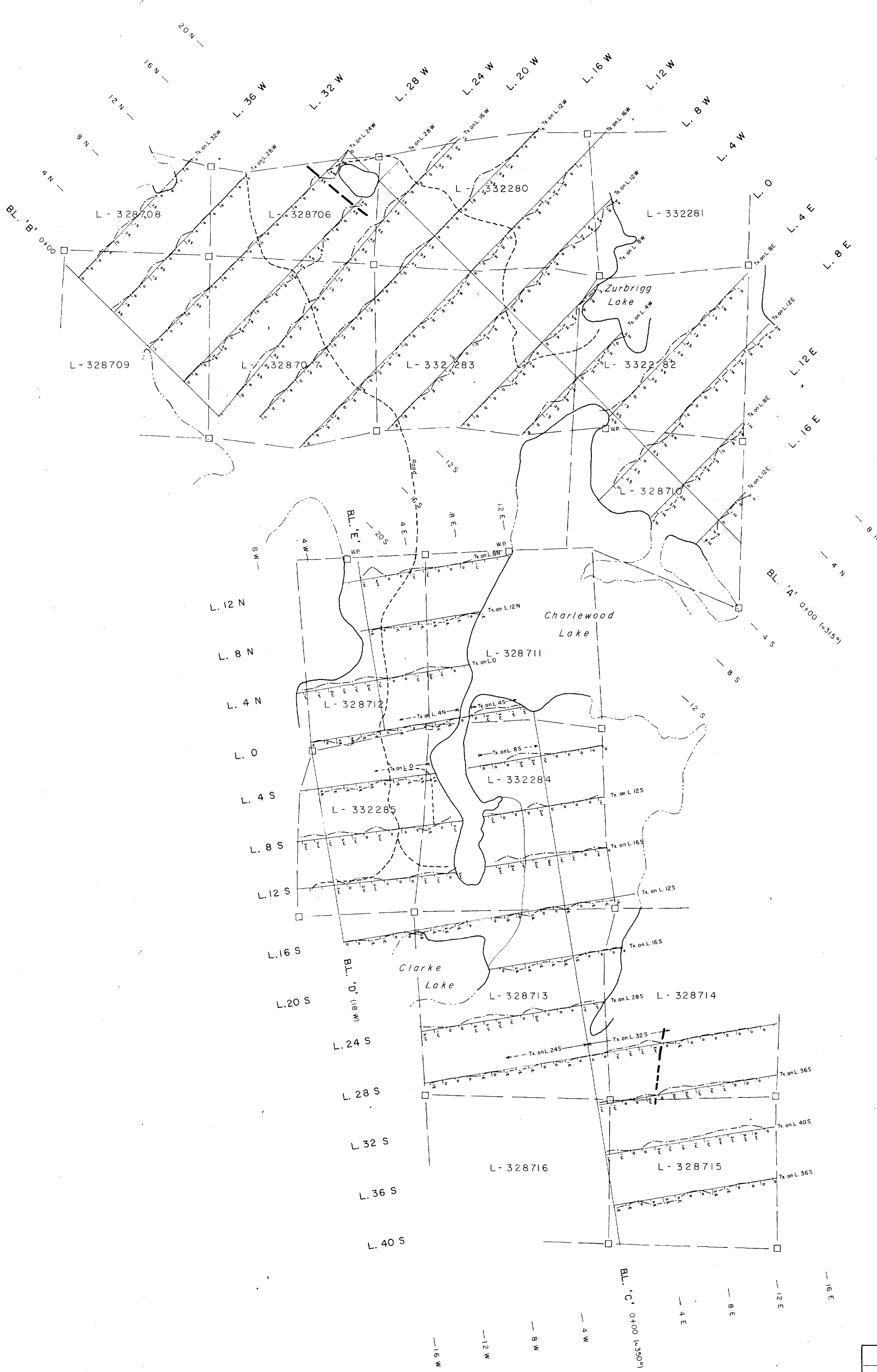
CANEX AERIAL EXPLORATION LTD.

GEOLOGICAL SURVEY
Bannockburn Twp.
Larder Lake Mining Division, Ont.

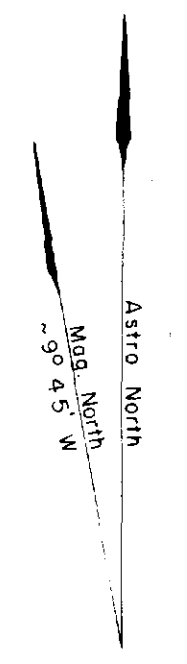
2.1059

Instr. used:	Scale: 1" = 400'	Date: Oct. 1972
Mapped by: J. G. Burns		Drawn by: J.G.
Date surveyed: Aug-Sept '72	NTS: 41-P-15	Venture: GEEC
		Dwg. No. 1

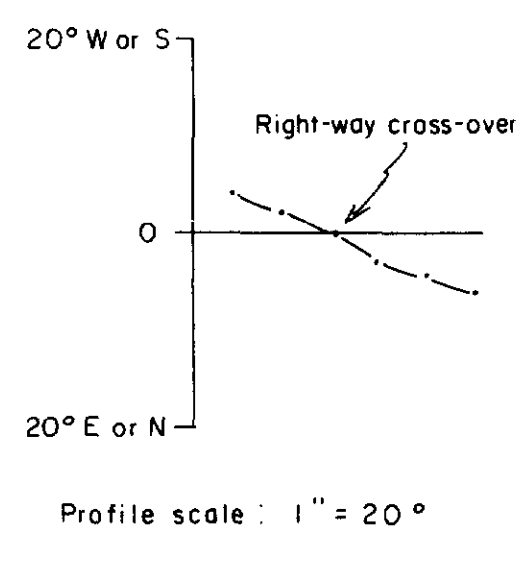




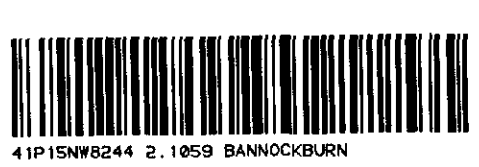
LOCATION OF CLAIM GROUP
Bannockburn Twp., Ont.
Scale: 1" = 2640'
(Ref. Claim map M-207)

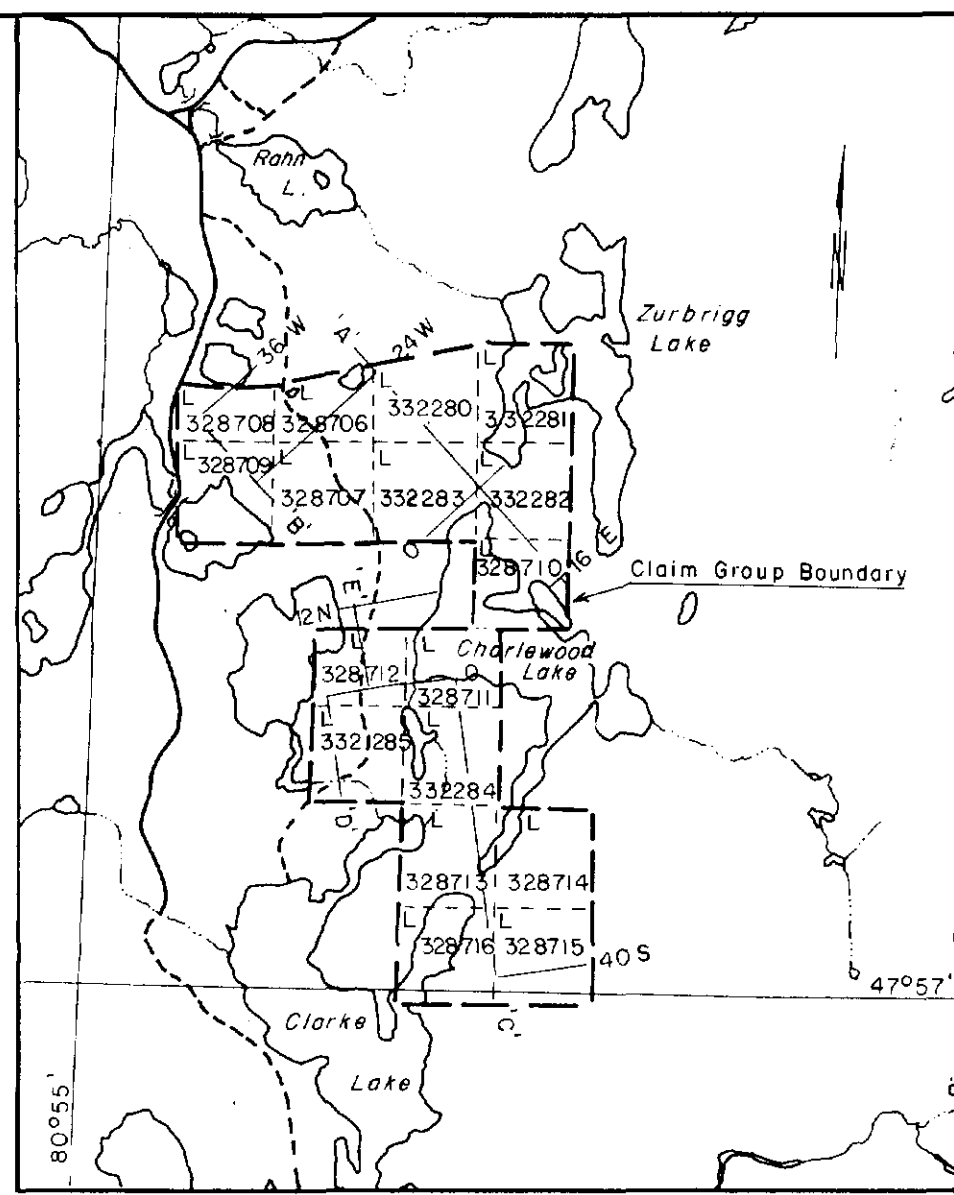
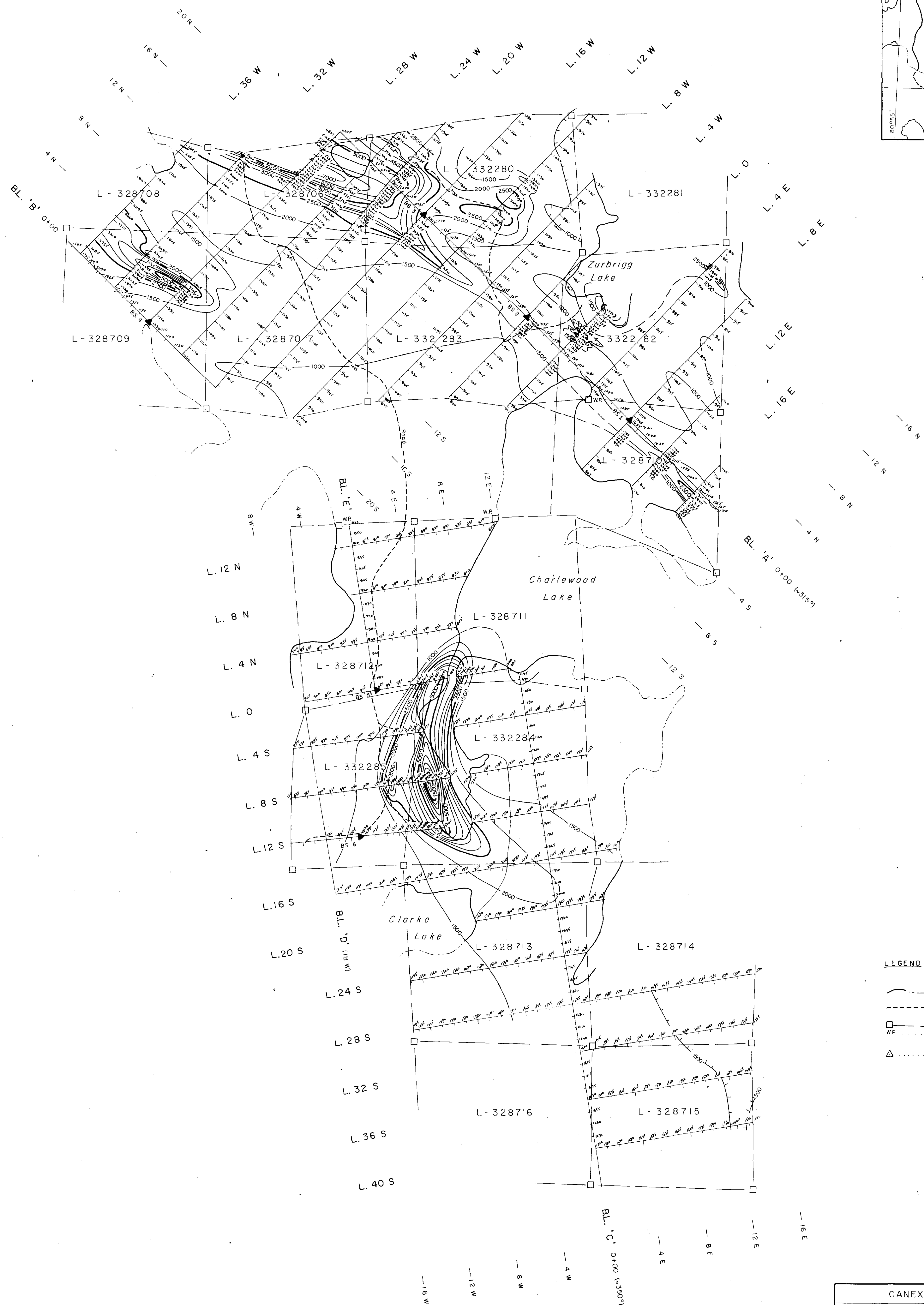


- LEGEND**
- Lakeshore - observed, assumed
 - Road
 - Claim post & boundary
 - WP - witness post
 - E.M. conductor



CANEX AERIAL EXPLORATION LTD.			
GROUND ELECTROMAGNETIC SURVEY			
Bannockburn Twp.			
Larder Lake Mining Division, Ont.			
VERTICAL LOOP E.M. PROFILES			
(Broadside Transmitter Setups)			
Instr. used: Scintrex SE-600	Scale: 1" = 400'	Date: Oct. 1972	
Operator: F.H.F.	Frequency: 1600 Hz.	Drawn by: J.P.	
Date surveyed: Sept. 1972	NTS.: 41-P-15	Venture: GEEC	Dwg. No.





LOCATION OF CLAIM GROUP
Bannockburn Twp., Ont.
Scale 1" = 2640'
(Ref. Claim map M-207)

- LEGEND**
- Lakeshore - observed, assumed
 - Road
 - Claim post & boundary
 - WP - witness post
 - Δ - Location of Base Station

CANEX AERIAL EXPLORATION LTD.		
GROUND MAGNETIC SURVEY		
Bannockburn Twp. Larder Lake Mining Division, Ont.		
MAGNETIC CONTOURS		
Instr. used: Sharpe MF-1	Scale: 1" = 400'	Date: Oct. 1972
Operator: P.M. & F.M.I.	Contour Interval: 500 γ	Drawn by: <i>[Signature]</i>
Date surveyed: Aug-Sept/72	N.T.S.: 41-P-15	Venture: GEEC
		Dwg. No.: 3

