2.20"

GEOLOGICAL REPORT

on

CABOT-BURROWS PROPERTY

Shining Tree Project

of

THE HANNA MINING COMPANY

by

John P. Muhic

June 24, 1976

CABOT-BURROWS PROPERTY
GEOLOGIC REPORT

INTRODUCTION

In 1975 The Hanna Mining Company contracted the Kenting Earth Sciences Ltd. of Ottawa, Ontario to fly an airborne EM and magnetometer survey in the Shining Tree area. As a result of the airborne geophysical survey, 18 claims were staked on the boundary of Cabot and Burrows Townships in the District of Sudbury, to cover two airborne anomalies.

A geological survey, an electromagnetic survey, and a magnetic survey were conducted on a grid of picket lines during the summer of 1976. Portions of the property covered by lakes will have to await freeze-up before the geophysical surveys can be completed.

The project was supervised by John Muhic and assisted by Andreas Lichtblau and Elliott Burden under the direction of Nelson Hogg, District Geologist for The Hanna Mining Co.

Application was made under the Ontario government's Mineral Exploration Assistance Program to obtain assistance in the amount of one-third of expenditures on the property up to a maximum of $35,435.

LOCATION AND ACCESS

The property crosses the boundary between Cabot and Burrows Twp. in the Larder Lake Mining Div. Eleven claims are located in Cabot Twp. and seven claims in Burrows Twp.

The property is reached by following the Grassy Lake Rd. for 24 miles north of Hwy.560. The western portion of the property is reached by a bush road running west from the Grassy Lake Rd.

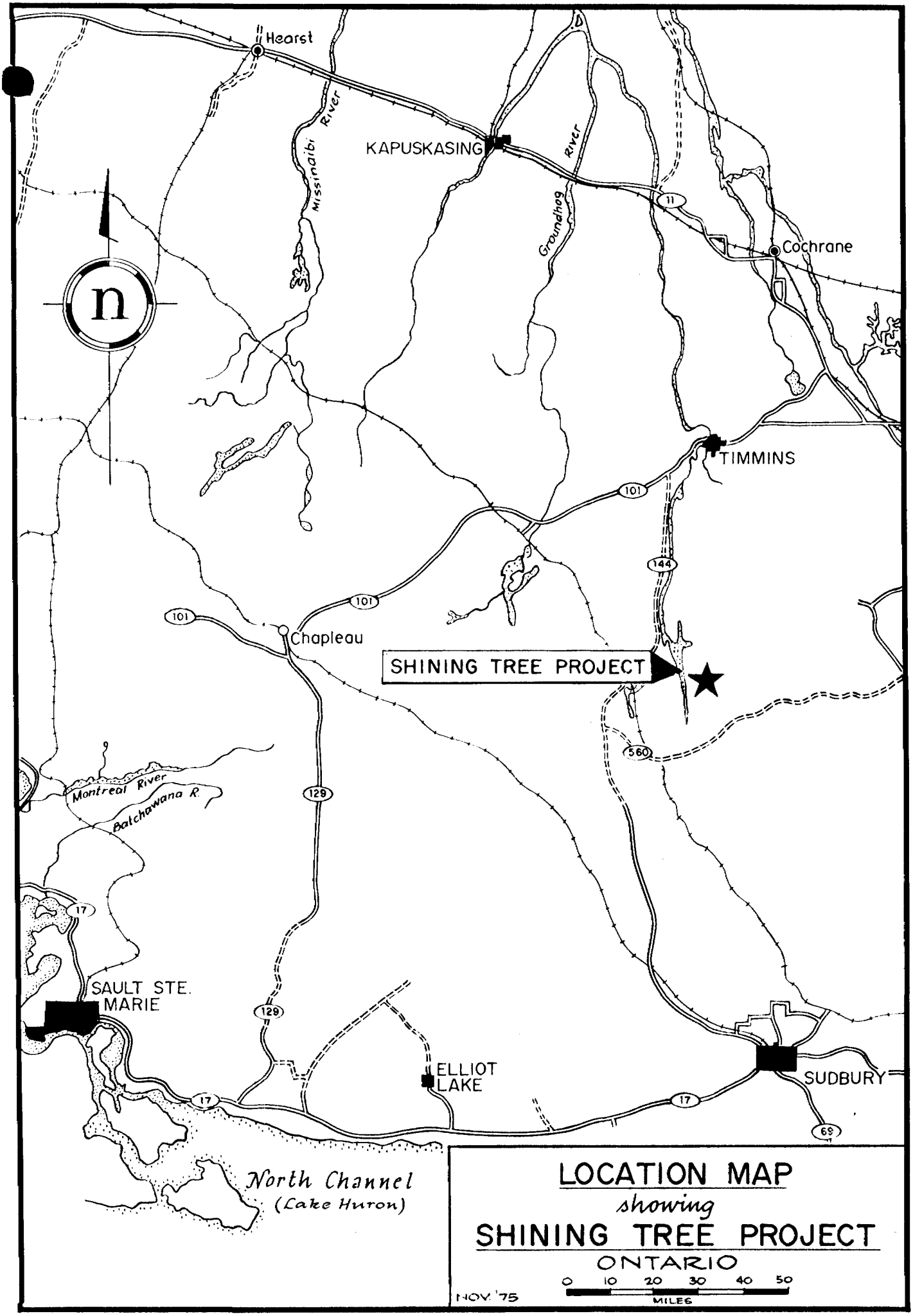
OWNERSHIP

The 18 unpatented mining claims are held by The Hanna Mining Co., Room 805, 69 Yonge St., Toronto. Claim numbers L-442806-816 are in Cabot Twp. and claim numbers L-442799-805 are in Burrows Twp.

The Hanna Mining Co. is responsible for submitting assessment work on the claims.

LINE CUTTING

The base lines and tie line were cut by Hanna personnel. Base line 00 was cut at a bearing of 78°30' to take advantage of a bush road running through the centre of the property. Tie line 00 was cut perpendicular to base line 00. Base line 16 south was cut at 065° to follow the trend of the airborne anomalies.



LOCATION MAP

showing

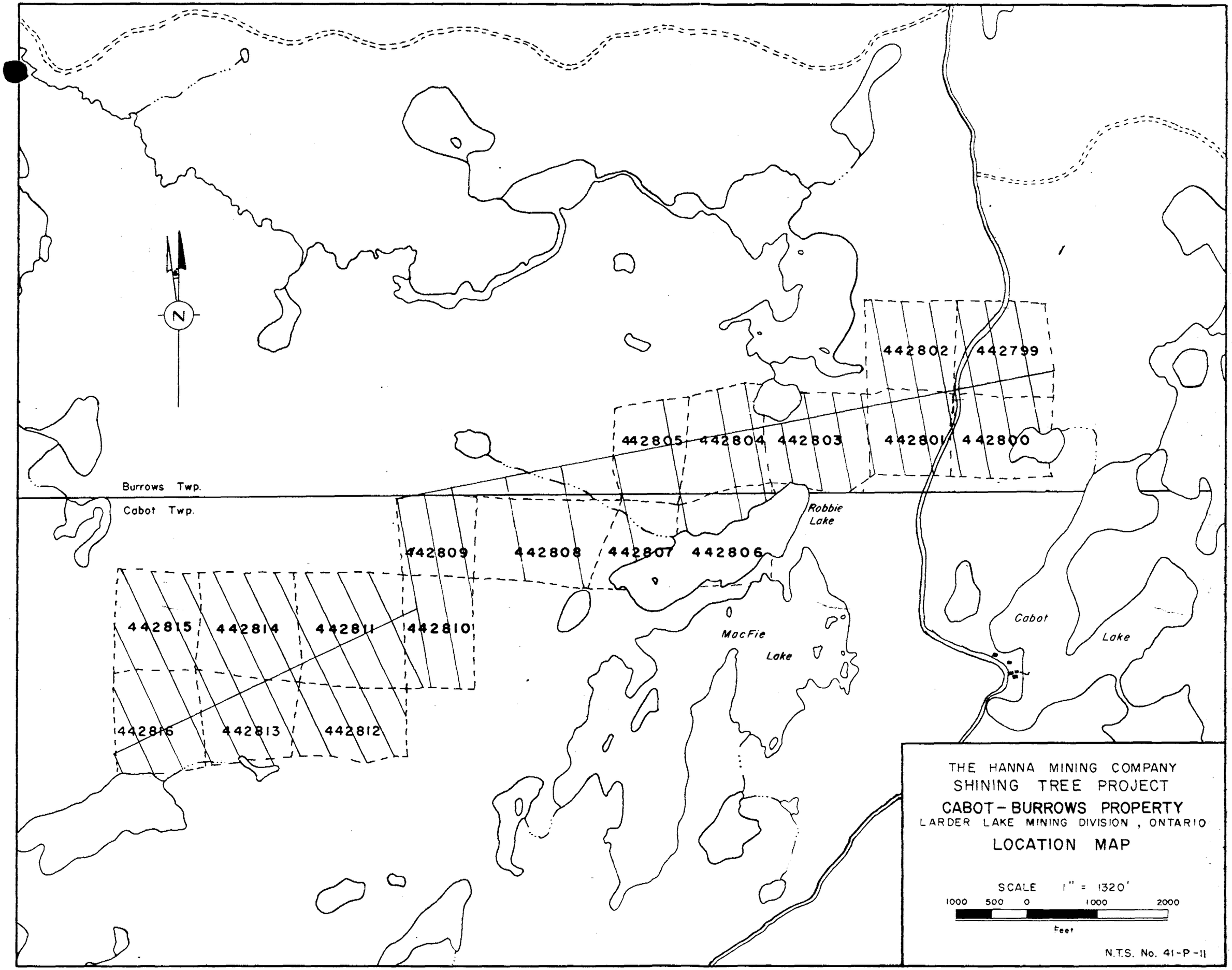
SHINING TREE PROJECT

ONTARIO

0 10 20 30 40 50

MILES

NOV. '75


N
442802
442799
442805
442804
442803
442801
442800
Burrows Twp.
Cabot Twp.
Robbie Lake
442809
442808
442807
442806
442815
442814
442811
442810
MacFie Lake
442816
442813
442812
Cabot Lake
THE HANNA MINING COMPANY
SHINING TREE PROJECT
CABOT - BURROWS PROPERTY
LARDER LAKE MINING DIVISION, ONTARIO
LOCATION MAP
SCALE 1" = 1320'
1000 500 0 1000 2000
Feet
N.T.S. No. 41-P-11

Picket lines were cut at 400-foot intervals perpendicular to the base lines over most of the property. A section in the centre of the property contains lines at an 800 foot spacing.

The picket lines were cut under contract by David Vallillee, 84 Ridgeway Cresc., Waterloo, Ontario and by Dan Hopkins, R.R.#1, Haileybury, Ontario.

A total of 8.23 miles of base line and tie line and 12.05 miles of picket line were cut. The line cutting was completed between May 15 and May 30, 1976.

All the geological and geophysical surveys were conducted using the same grid.

FORMER WORK

As far as can be ascertained there has been no previous exploration work done on the property.

GEOLOGICAL MAPPING

The property was mapped by John Muhic between May 19 and May 31. The geology is tied to the picket lines.

Results are plotted at a scale of 1 in.= 200 ft. on two standard-sized sheets of 36" X 44". Copies are enclosed with the report.

GENERAL GEOLOGY

Cabot Twp. was mapped by Carter[1] (1976) in 1975 on a scale of 1" equals 1/4 mile. The area is underlain by a series of early to late Precambrian rocks covered by Pleistocene and Recent deposits.

The Archean rocks consist of northeast striking basaltic, intermediate, and rhyolitic flows and pyroclastics. Lensoid masses of diorite and gabbro parallel the trend of the metavolcanics. A pluton of porphyritic granite occupies the western boundary of Cabot Twp. A smaller pluton is found at Clear Lake.

A series of late Precambrian diabase dykes intrude the Archean rocks. The most prominent is a north-northwest trending set.

Pleistocene deposits consisting primarily of sand cover extensive portions of the area.

GEOLOGY OF THE PROPERTY

Geological interpretation was severely hampered by the extensive overburden of outwash sand which covers 90% of the property. The only outcrops on the property are located in a small area west of Robbie Lake. Mapping revealed a sequence of basic to felsic volcanics striking approximately 068° and dipping 80° to the south.

The basic volcanics consist of dark green, chloritized and carbonatized pillow lavas with tops facing south.

N

L 80 E

L 60 E

L 40 E

L 24 E

TL 0

Grassy Lake Road

BL OC

Rhyolite

Basic Volcanics

REM ANOMALY

Gabbro

Burrows Twp.

Cabot Twp.

BL 00

L 20 W

L 40 W

Robbie Lake

MacFie Lake

Cabot Lake

BL 16 S

Basalt

Dacite

THE HANNA MINING COMPANY

SHINING TREE PROJECT

CABOT - BURROWS PROPERTY

LARDER LAKE MINING DIVISION, ONTARIO

LOCATION MAP

GEOLOGY

SCALE 1" = 1320'

1000 500 0 1000 2000

Feet

N.T.S. No. 41-P-11

Intermediate volcanics are light green, massive and homogeneous with no apparent structural features. The rocks are chloritized and contain a trace of pyrite.

No outcrops of rhyolite were observed on the property itself, although several large boulders and outcrops are exposed just west of the property. The rhyolite occurs as a pyroclastic breccia with fragments ranging up to 8" by 12" in size. It contains abundant quartz eyes and is highly sericitized. According to Carter [1] rhyolite occupies the northern part of the property and thus is stratigraphically below the basic volcanics. Carter[1] believes the rhyolite is the top of a second of three cycles of vulcanism having basalt at the base and rhyolite at the top.

The volcanic sequence is intruded by sill-like gabbroic masses. Two such sills were observed on the property. The gabbro is very coarse grained, dark green, chloritized and carbonatised. In places the gabbro exhibits a diabasic texture but it can be distinguished from the diabase dykes by its low magnetic relief.

Late Precambrian diabase dykes trending northwest and dipping steeply west intrude the volcanics and gabbro. Their width is approximately 100 feet. The rocks are black, fresh looking and magnetic.

The Pleistocene consists of a thick layer of outwash sands covering most of the property. The sand is fine, light brown and generally devoid of clay minerals or pebbles.

The geology was reduced to a scale of 1 inch equals 1/4 mile and a copy is bound into the report.

REFERENCES

[1]Carter, M.W. 1976: Cabot Twp, District of Sudbury; Ont.Div.Mines, Prelim. Map P.1104, Geol. Ser., scale 1:15,840 or 1 inch to 1/4 mile. Geology 1975.

John F. Muhic
June 24, 1976

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CABOT-BURROWS PROPERTY

Shining Tree Project

THE HANNA MINING COMPANY

REPORT OF

MAGNETOMETER SURVEY

by

John F. Muhic

June 4, 1976

CABOT-BURROWS PROPERTY
REPORT OF MAGNETOMETER SURVEY

INTRODUCTION

In 1975 The Hanna Mining Company contracted the Kenting Earth Sciences Ltd. of Ottawa, Ontario to fly an airborne EM and magnetometer survey in the Shining Tree area. As a result of the airborne geophysical survey, 18 claims were staked on the boundary of Cabot and Burrows Townships, in the District of Sudbury, to cover two airborne anomalies.

A geological survey, an electromagnetic survey, and a magnetic survey were conducted on a grid of picket lines during the summer of 1976. Portions of the property covered by lakes will have to await freeze-up before the geophysical surveys can be completed.

The project was supervised by John Muhic and assisted by Andreas Lichtblau and Elliott Burden under the direction of Nelson Hogg, District Geologist for The Hanna Mining Co.

Application was made under the Ontario government's Mineral Exploration Assistance Program to obtain assistance in the amount of one-third of expenditures on the property up to a maximum of $35,435.

LOCATION AND ACCESS

The property crosses the boundary between Cabot and Burrows Twp. in the Larder Lake Mining Div. Eleven claims are located in Cabot Twp. and seven claims in Burrows Twp.

The property is reached by following the Grassy Lake Rd. for 24 miles north of Hwy.560. The western portion of the property is reached by a bush road running west from the Grassy Lake Rd.

OWNERSHIP

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The Hanna Mining Co. is responsible for submitting assessment work on the claims.

LINE CUTTING

The base lines and tie line were cut by Hanna personnel. Base line 00 was cut at a bearing of 78°80' to take advantage of a bush road running through the centre of the property. Tie line 00 was cut perpendicular to base line 00. Base line 16 south was cut at 065° to follow the trend of the airborne anomalies.

N

L 0

L 24 E

L 40 E

L 60 E

L 80 E

Grassy Lake Road

BL 0C

Rhyolite

Basic Volcanics

Rem Anomaly

Gabbro

Burrows Twp.

Cabot Twp.

BL 00

L 20 W

L 40 W

Robbie Lake

Gabbro

Basic Volcanics

MacFie Lake

Cabot Lake

BL 16 S

THE HANNA MINING COMPANY

SHINING TREE PROJECT

CABOT - BURROWS PROPERTY

LARDER LAKE MINING DIVISION, ONTARIO

LOCATION MAP

GEOLOGY

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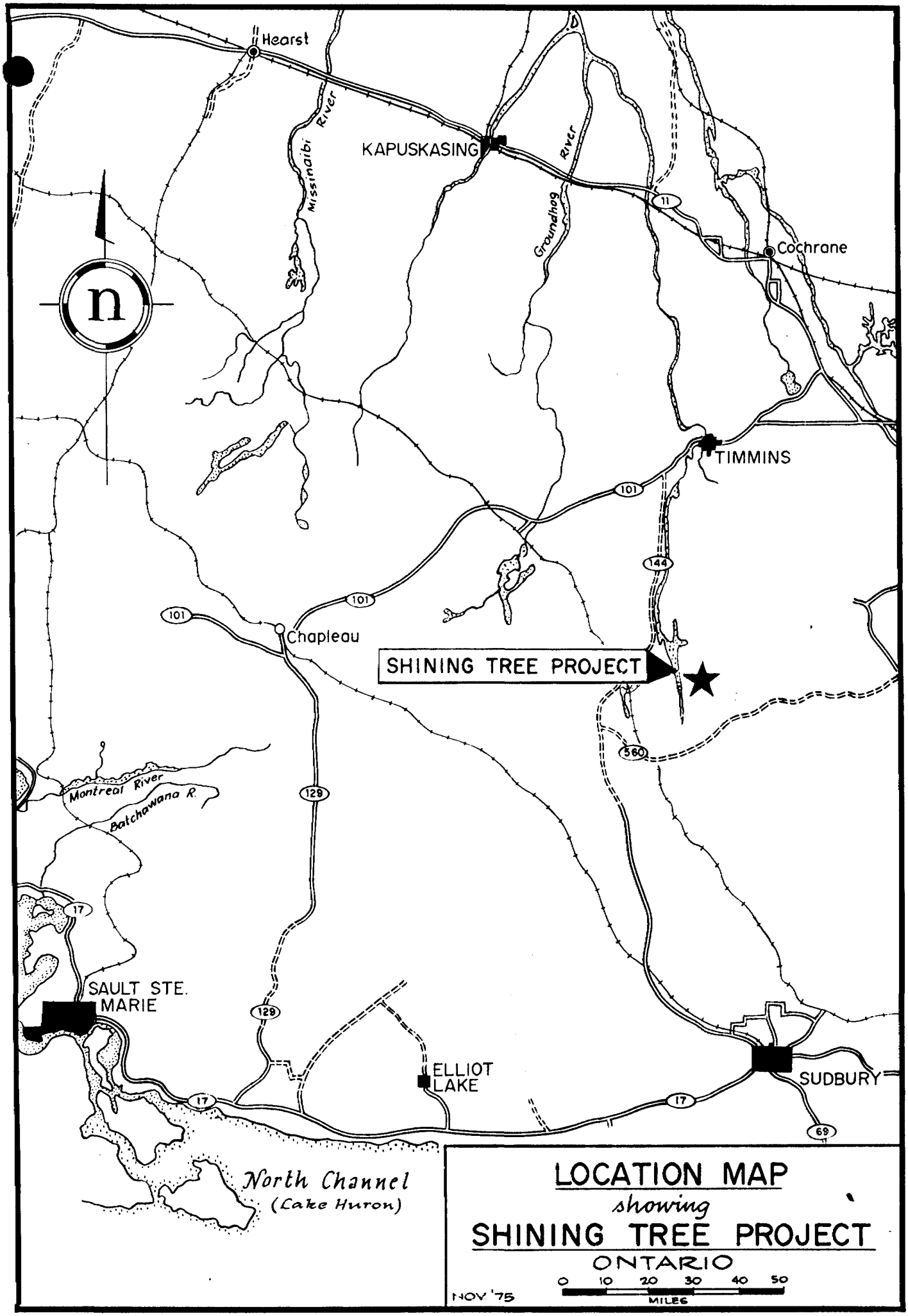
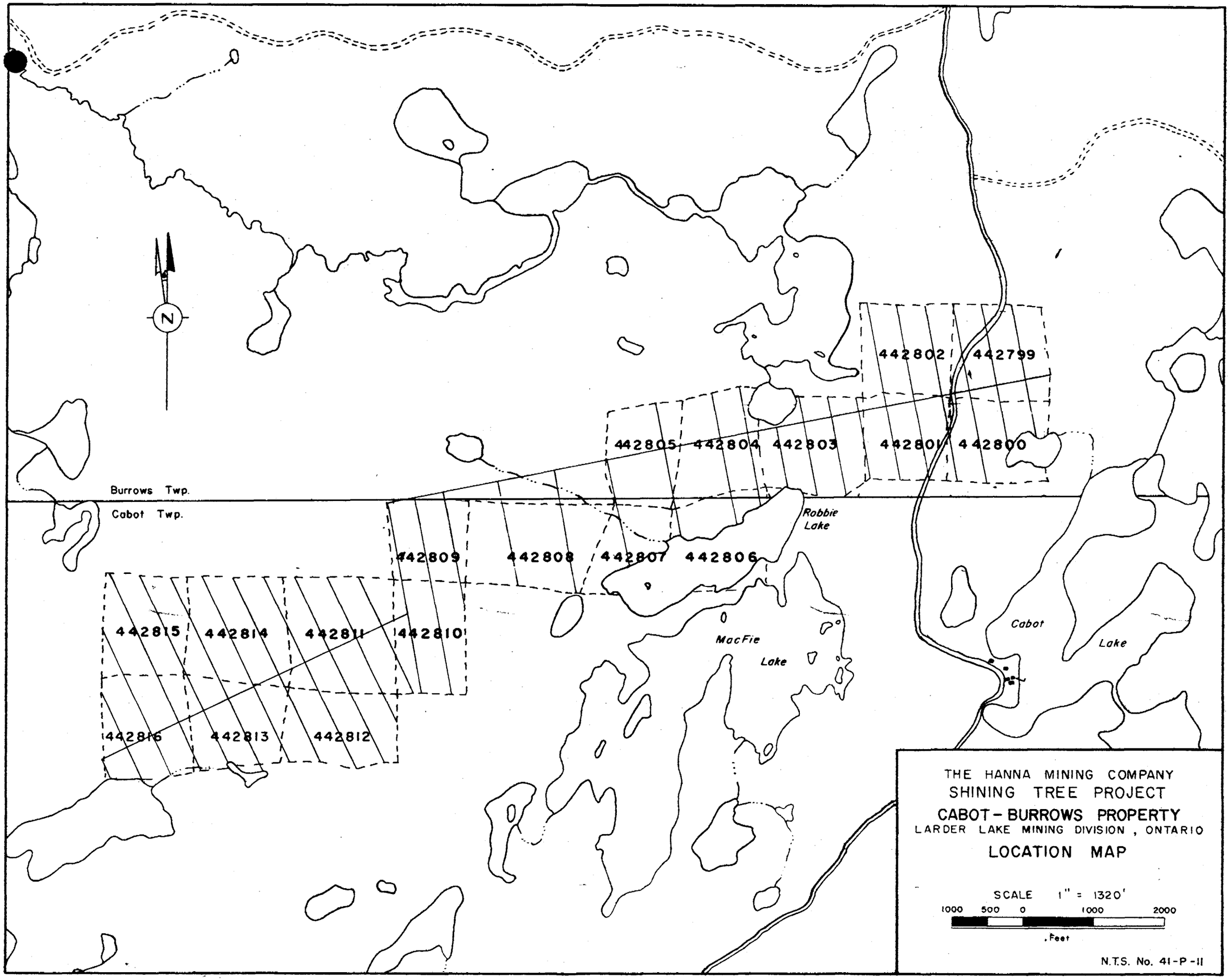

Hearst
KAPUSKASING
Missinaibi River
Groundhog River
11
Cochrane
n
TIMMINS
101
144
101
101
Chapleau
SHINING TREE PROJECT
560
Montreal River
Batchawana R.
129
17
SAULT STE. MARIE
129
ELLIOT LAKE
17
17
SUDBURY
69
North Channel
(Lake Huron)
LOCATION MAP
showing
SHINING TREE PROJECT
ONTARIO
0 10 20 30 40 50
MILES
NOV '75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The picket lines were cut under contract by David V. Lillico, 84 Ridgeway Cresc., Waterloo, Ontario and by Dan Hopkins, R.R.#1, Haileybury, Ontario.

A total of 3.28 miles of base line and tie line and 12.05 miles of picket line were cut. The line cutting was completed between May 15 and May 30, 1976.

All the geological and geophysical surveys were conducted using the same grid.

FORMER WORK

As far as can be ascertained there has been no previous exploration work done on the property.

GENERAL GEOLOGY

The property is underlain by a series of basic to rhyolitic volcanics. The southern half of the property is underlain by basic pillow lavas with tops to the south. The northern part of the property consists of rhyolitic breccia.

The volcanics are intruded by conformable gabbroic sills.

All the rocks on the property are in turn intruded by younger north-northwest trending, steeply dipping diabase dykes.

Extensive and apparently deep overburden of outwash sands covers over 90% of the property.

A 1 inch to 1/4 mile geologic sketch is bound into the report.

GEOPHYSICAL SURVEY

The magnetometer survey was conducted by Andreas Lichtblau between June 6 and June 14, 1976. A total of 284 base stations over 3.05 miles of base line and tie line were established. 1,360 stations were read over 12.23 miles of picket line. The results were interpreted by John Muhic.

Portions of the property over Robbie Lake and two smaller lakes will have to be completed after freeze-up.

INSTRUMENT

The survey was conducted using a Scintrex MF-2 Fluxgate magnetometer with a sensitivity of 20 gammas per scale division on the most sensitive scale.

readings underneath power lines. A built-in interoom system permits easy communication at any coil separation. Tilt meters in both coils co-ordinate the angle of tilt for both operators when topographic effects need to be eliminated.

METHOD OF SURVEY

The Apex system was used in a horizontal loop mode. Both operators traverse along the same picket line at a fixed spacing, connected by a reference cable. When a station is reached, the transmitter is turned on and the receiver operator notes the in-phase and quadrature readings. The readings are plotted at the mid-point between two coils. Topographic effects are eliminated by tilting both the transmitter and receiver coils to maintain a coplanar configuration.

Initially a 400 foot coil spacing was used but no anomalous readings were obtained. This prompted a decision to use the 600 foot coil spacing in order to penetrate the deep sand deposits. The property was surveyed at 100 foot intervals employing a frequency of 888 Hz and 222 Hz.

The readings are plotted and profiled on two standard 36" X 44" sheets. Copies of the maps are included with the report.

RESULTS AND CONCLUSIONS

A weak EM anomaly extending from L44W to line 20W was delineated in the western portion of the property. The ratio of In-phase to Quadrature is typically 6:0 in the 888 Hz frequency and 5:2 in the 222 Hz frequency. The conductor is 100 feet at its thickest part and dips steeply to the south. The weak response of the conductor and the fact that it could not be detected using the 400 foot coil spacing would indicate that the conductor is very deep.

The conductor lies in the interpreted rhyolite breccia unit - an environment which is favourable for massive sulphide type deposits.

A single line anomaly was detected on L68E. A bay in the lake north of the property prevented the completion of the anomalous profile with a 600 foot cable. Consequently a 400 foot coil spacing was used to delineate the conductor.

The conductor has a negligeable width. The ratio of In-phase / Quadrature is 6/3 on the 888 Hz frequency and 3/4 in the 222 Hz frequency.

Neither of the two EM anomalies have coincident magnetic anomalies.

RECOMMENDATIONS

The weak conductor in the western part of the property definitely warrants a diamond drill hole on the basis of its width and strike length and the favourable geologic setting.

The anomaly on L68E, because of its small width and length is considered a lower priority drill target.

June 24, 1976

John F. Muhic

CABOT-BURROWS PROPERTY

Shining Tree Project

THE HANNA MINING COMPANY

REPORT OF ELECTROMAGNETIC SURVEY

by

John P. Muhic

June 24, 1976

CABOT-BURROWS PROPERTY
REPORT OF ELECTROMAGNETIC SURVEY

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Extensive and apparently deep overburden of outwash sands covers over 90% of the property.

A 1 inch to 1/4 mile geologic sketch is bound into the report.

GEOPHYSICAL SURVEY

The EM survey was conducted by Andreas Lichtblau and Elliott Burden under the supervision of John Mulic between May 24 and June 1, 1976.

A total of 482 stations over 12.51 miles of picket lines were read. Portions of the property over Robbie Lake and two smaller lakes cannot be surveyed until freeze-up.

INSTRUMENT

The survey was conducted using the new Apex Parametrics Max-Min II system. The unit was used in a horizontal loop mode which can have a coil separation up to 800 feet. It features automatic, direct readout of the In-phase and Quadrature components of the secondary field in percent on 3½" size meters with a ± ½% to ± 1% reading repeatability. Operating frequencies include 222, 444, 888, and 1777 Hz. with a 0.2 Hz normal receiver bandwidth. The system is reputed to be able to take valid

N

442802 442799

442805 442804 442803 442801 442800

Burrows Twp.

Cabot Twp.

442809 442808 442807 442806

442815 442814 442811 442810

442816 442813 442812

Robbie Lake

MacFie Lake

Cabot Lake

THE HANNA MINING COMPANY

SHINING TREE PROJECT

CABOT - BURROWS PROPERTY

LARDER LAKE MINING DIVISION, ONTARIO

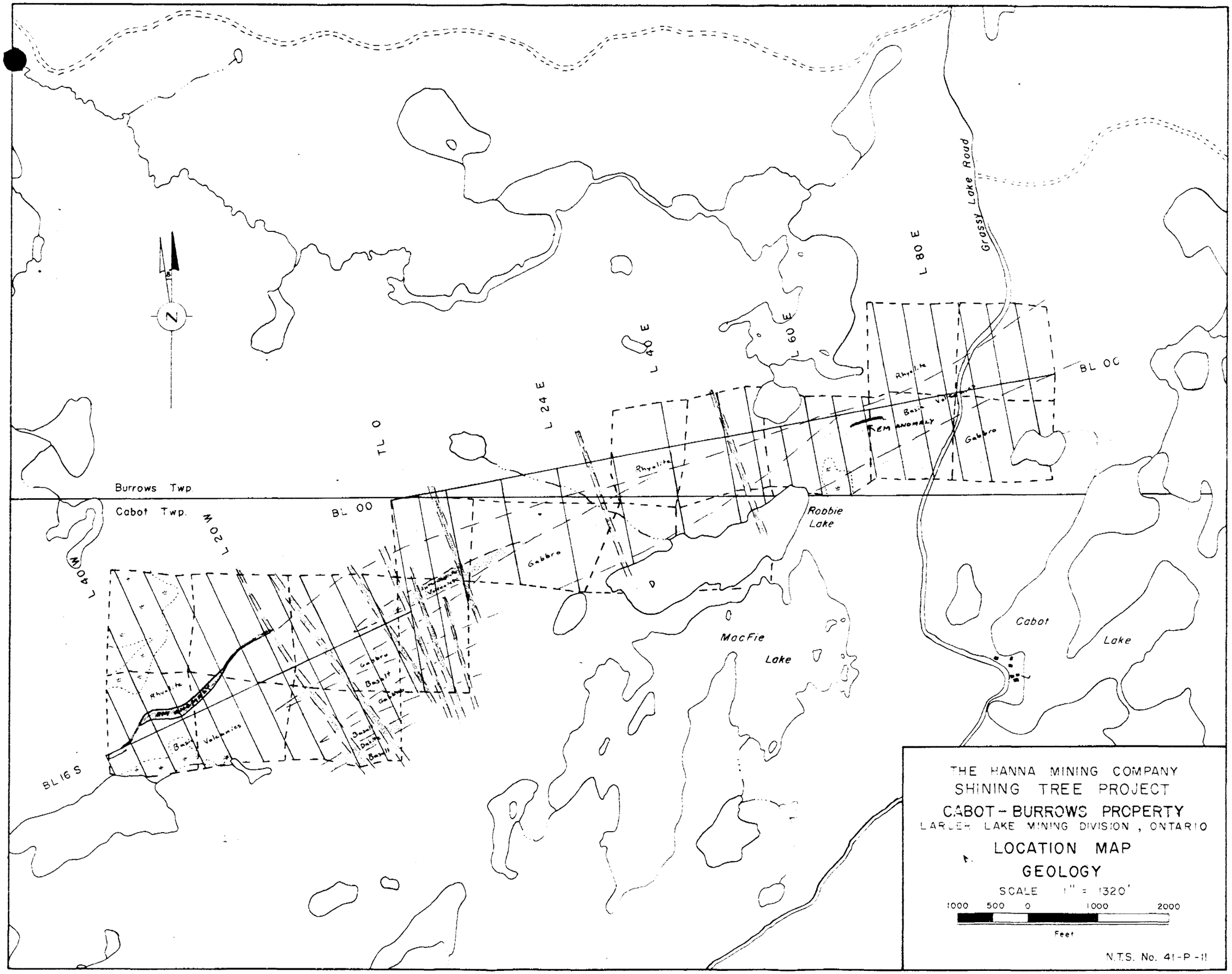
LOCATION MAP

SCALE 1" = 1320'

1000 500 0 1000 2000

Feet

N.T.S. No. 41-P-11



THE HANNA MINING COMPANY
SHINING TREE PROJECT
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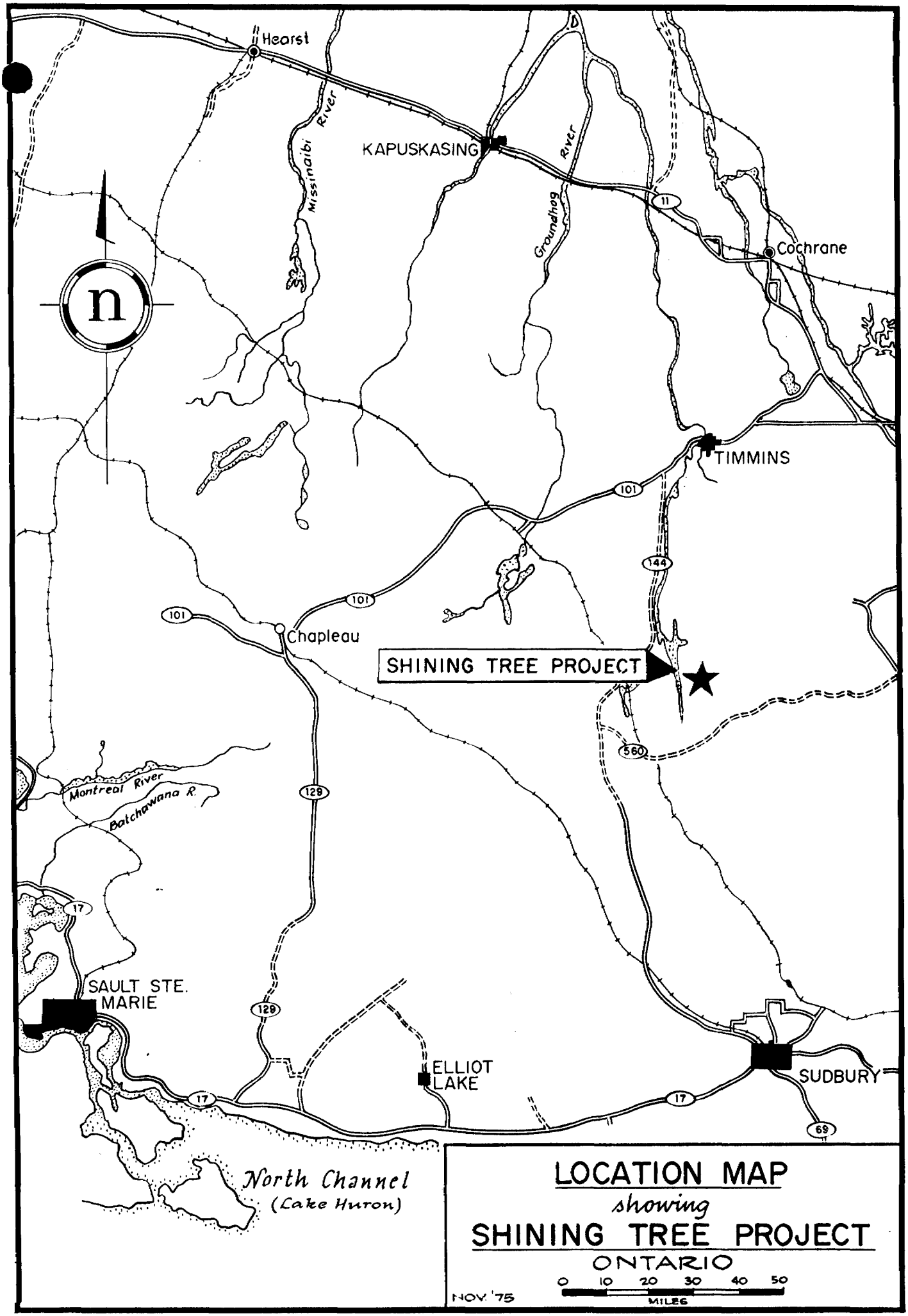
Hearst
KAPUSKASING
Missinaibi River
Groundhog River
11
Cochrane
n
TIMMINS
101
144
101
101
Chapleau
SHINING TREE PROJECT
560
Montreal River
Batchawana R.
129
17
SAULT STE. MARIE
129
ELLIOT LAKE
SUDBURY
17
17
69
North Channel
(Lake Huron)
LOCATION MAP
showing
SHINING TREE PROJECT
ONTARIO
0 10 20 30 40 50
MILES
NOV. '75

METHOD OF SURVEY

Base stations were established along the base line and tie line of the grid at 100 foot intervals. This was done by reading the base stations a few at a time, checking back constantly to an already established base station and then carrying the survey ahead.

The picket line grid was then run in closed loops, checking in at the base stations on the base line at regular periods. The readings were taken at 50 foot intervals except in anomalous areas where 25-foot readings were taken.

The readings were plotted on 2 standard 36" X 44" sheets and contoured. Copies are enclosed with the report.

RESULTS AND CONCLUSIONS

The magnetometer survey distinguished the northwest trending diabase dykes, but failed to distinguish the different geologic units under the extensive sand overburden. The magnetic relief over most of the property is relatively weak, reaching a maximum of 6060 gammas.

The magnetic relief of the diabase dykes diminishes to the northwest, probably due to the increasing depth of the sand overburden.

No magnetic anomalies were recorded over the EM conductors.

June 24, 1976

John F. Muhic

DIAMOND DRILLING REPORT

on

CABOT-BURROWS PROPERTY

Shining Tree Project

of

THE HANNA MINING COMPANY

by

John F. Muhic

November 16, 1976

DIAMOND DRILLING REPORT
on
CABOT-BURROWS PROPERTY
SHINING TREE PROJECT

INTRODUCTION

During 1975, The Hanna Mining Co. acquired 18 claims on the boundary of Cabot and Burrows Twp. in the Larder Lake Mining Division. A program of geological and geophysical surveying during the summer of 1976 delineated two electromagnetic anomalies on the property. Separate reports have been written describing the geological, magnetic and electromagnetic surveys. This report covers the results of the diamond drilling program conducted in September and October, 1976.

The following are attached to this report:

1) Map showing the location of the property.
2) Map showing the claim group and claim numbers.
3) Map showing the geology of claim group at 1" to ½-mile.
4) Copies of the diamond drill hole logs.
5) Copies of the assay certificates from Swastika Laboratories.
6) Two maps at 1" to 200' showing drill hole locations.
7) Cross Section of each diamond drill hole.

LOCATION AND ACCESS

The property crosses the boundary of Cabot and Burrows Twps. in the Larder Lake Mining Division. Eleven claims are located in Cabot Twp. and seven claims are located in Burrows Twp.

The property can be reached by following the Grassy Lake Rd. for 24 miles north of Hwy.560. The western portion is accessible by a bush road running west from the Grassy Lake Rd.

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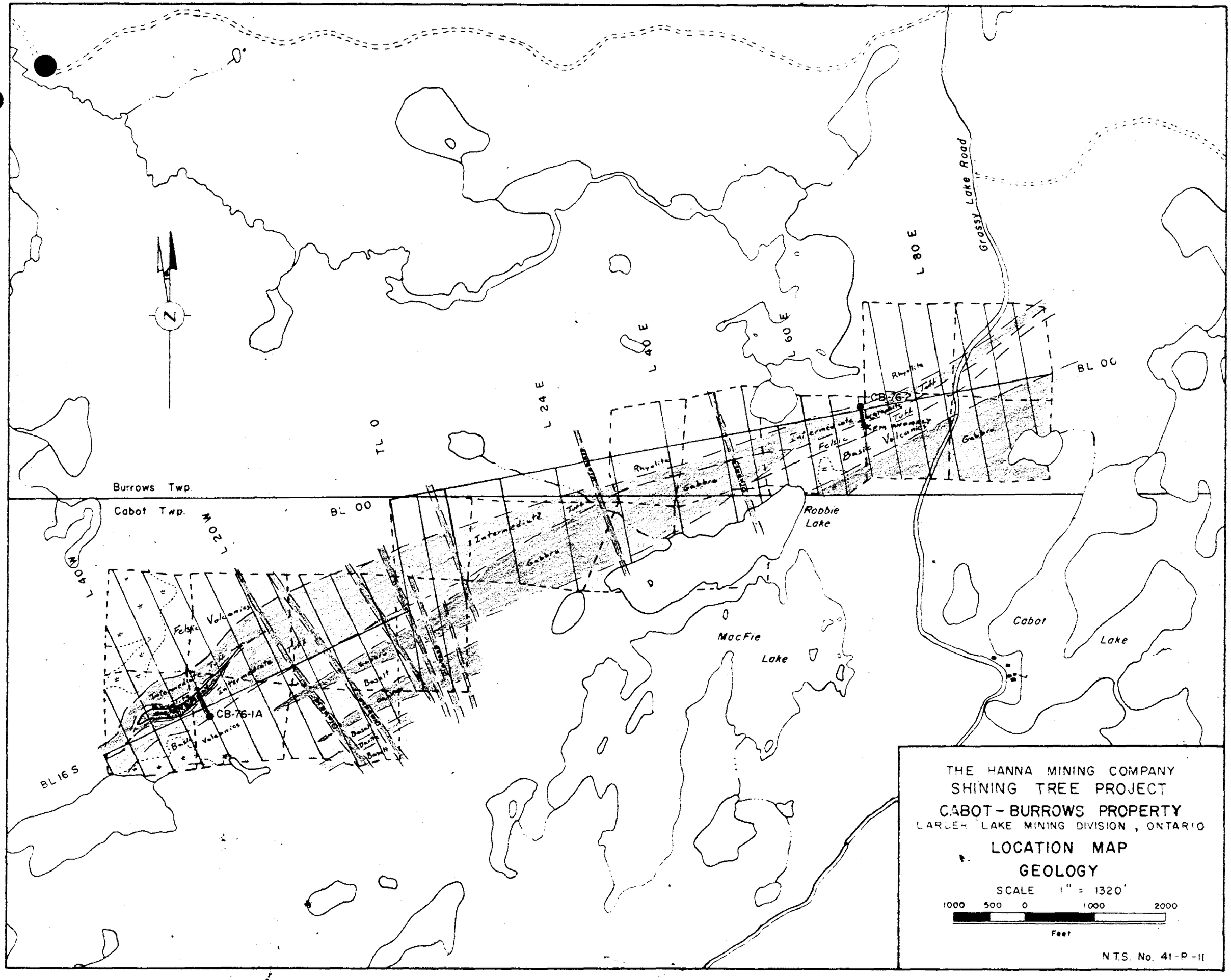
The 18 unpatented claims are held by The Hanna Mining Co., Room 805, 69 Yonge St., Toronto. Claim numbers L-442806-816 are in Cabot Twp. and claim numbers L-442799-805 are in Burrows Twp.

GEOLOGY

The regional geology and the detailed geology of the property are treated in a separate report. The property is underlain by Archean volcanic rocks intruded by gabbroic sills and diabase dykes. The volcanics consist of rhyolitic to basic tuffs and lavas. Two lenticular sills of gabbro intrude the volcanic rocks. Northwest trending diabase dykes cut all the rocks on the property. The contact between felsic and intermediate volcanics is marked by graphitic and argillaceous bands.

GEOPHYSICS

The property was covered by a magnetic survey and an APEX Max-Min 11 electromagnetic survey. The electromagnetic survey delineated two anomalous zones in deep overburden with a 600 foot coil separation. Two holes were drilled to investigate the anomalies.


N
L 80 E
L 40 E
L 60 E
L 24 E
TL 0
L 20 W
L 40 W
BL 00
BL 16 S
Grossy Lake Road
Burrows Twp.
Cabot Twp.
Robbie Lake
MacFie Lake
Cabot Lake
CB-76-2
CB-76-1A
Rhyolite
Tuff
Gabbro
Intermediate
Felsic
Basic
Felsic Volcanics
Basic Volcanics
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LARDER LAKE MINING DIVISION, ONTARIO
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DIAMOND DRILLING

Two drill holes were laid out to test the APEX electromagnetic anomalies. The first hole had to be abandoned when the rods were seized by quicksand at a depth of 190 feet. The hole was then relocated 50 feet south on the same picket line and was successful in reaching bedrock. The overburden consists of a fine lacustrine sand to a depth of 170 feet, underlain by a layer of grey clay to bedrock at 215 feet.

The second hole was collared in sand which extends to a depth of 65 feet and is underlain by coarse gravel to bedrock at 182 feet. Progress throughout the drilling program was slower than expected due to caving and silting of the diamond drill holes.

The drilling was completed between September 20, 1976 and October 19, 1976 by Heath and Sherwood Drilling, Kirkland Lake, Ontario. A total of 1341 feet were drilled, including the abandoned hole. Statistical information is tabulated below:

Hole #	Location		Station	Bearing	Inclination	Total Length	Overburden Length
	Claim #	Line					
CB-76-1	442813	82+00W	17+00S	N25°W	-60°	190	190
CB-76-1A	442813	32+00W	17+50S	N25°W	-55°	697	272
CB-76-2	442803	68+00E	0+40N	S12°E	-59°	454	302

Hole No.CB-76-2 was drilled down dip because of misleading geophysical results. Due to the steep dip of the rocks and the appreciable degree of flattening in the hole, a decision was made to continue drilling rather than restart the hole in the opposite direction.

RESULTS

Detailed drill logs and cross sections showing the geology and assay results are appended to this report.

Hole CB-76-1A intersected two 55-foot thick zones of graphitic argillite separated by 60 feet of massive, white rhyolite. The graphitic zones coincided with the indicated electromagnetic conductor. To the north of the second graphitic zone lies a 47-foot section of rhyolite, in turn overlain by an intermediate tuff that contains occassional specks and blebs of zincblende and chalcopyrite. Two 5 - 6 foot sections of core assayed Nil Au, 0.18% Zn and 0.04% Cu.

Hole CB-76-2 intersected intermediate tuff, argillite and felsic tuff. The argillite contained graphitic sections up to 10 feet wide, but did not coincide with the EM anomaly. A 6.5 foot section of the argillite containing up to 5% disseminated sulphides assayed .005 oz Au/ton and 0.50% Zn.

Three sections from 10 to 15 feet wide containing pure graphitic seams up to ¼-inch wide in felsic and intermediate tuff coincide with the electromagnetic anomaly.

The assaying was done by Swastika Laboratories Ltd.

CONCLUSIONS

From the results of the diamond drilling program it is evident that the EM anomalies were caused by graphite. In view of the low assay results no further exploration work on the property is recommended.

Nov.16,1976

John F. Muhic

CERTIFICATE

I, John F. Muhic, of the city of Toronto, in the Province of Ontario, hereby certify that:

1. I am a graduate in geology with the degree of B. Sc. from the University of Toronto, 1975.

2. That I am a full-time employee of The Hanna Mining Company, Room 805, 69 Yonge Street, Toronto, Ontario.

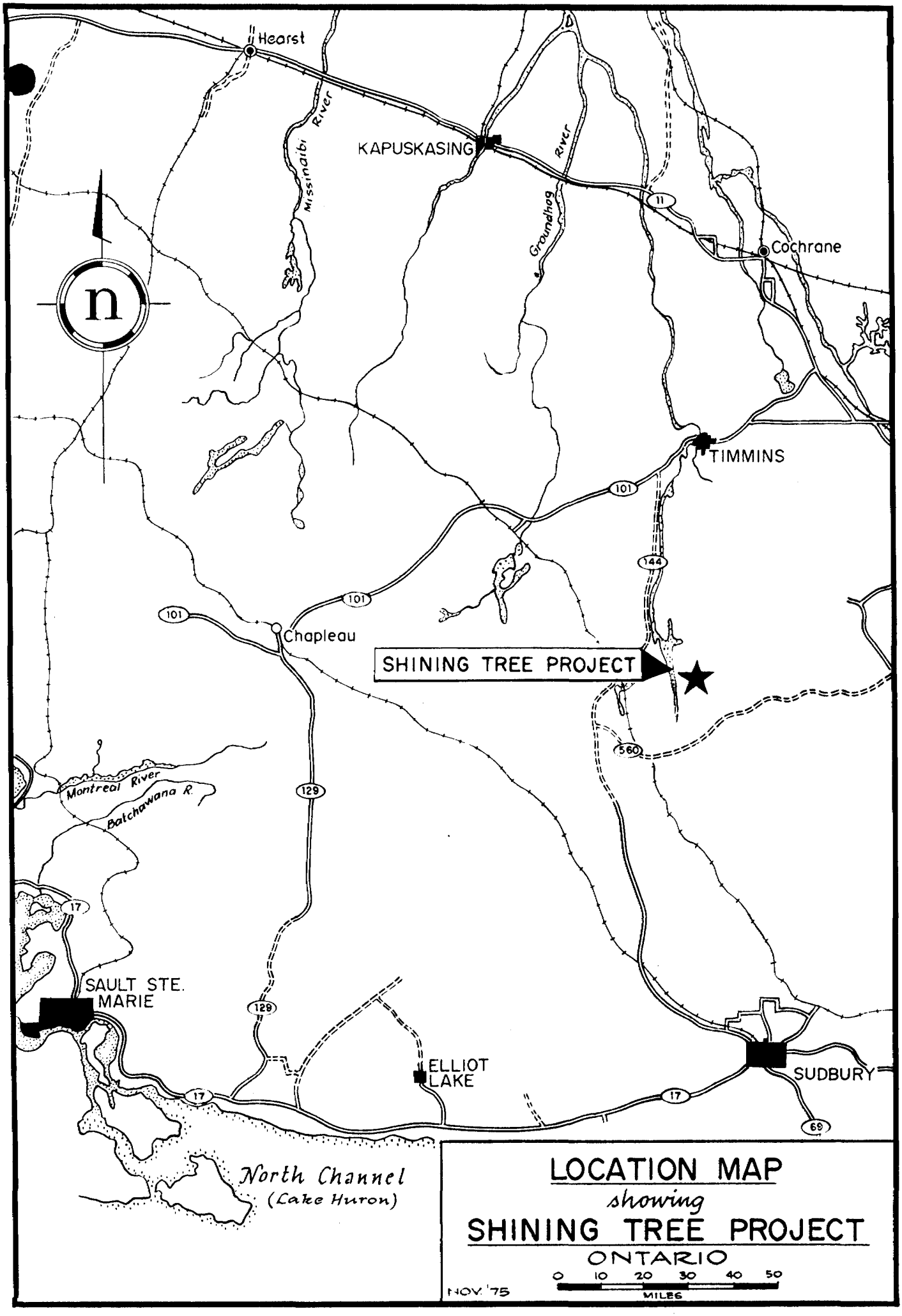
3. That the accompanying report is based on my personal knowledge of work done on the property, supplemented by information from published government reports.

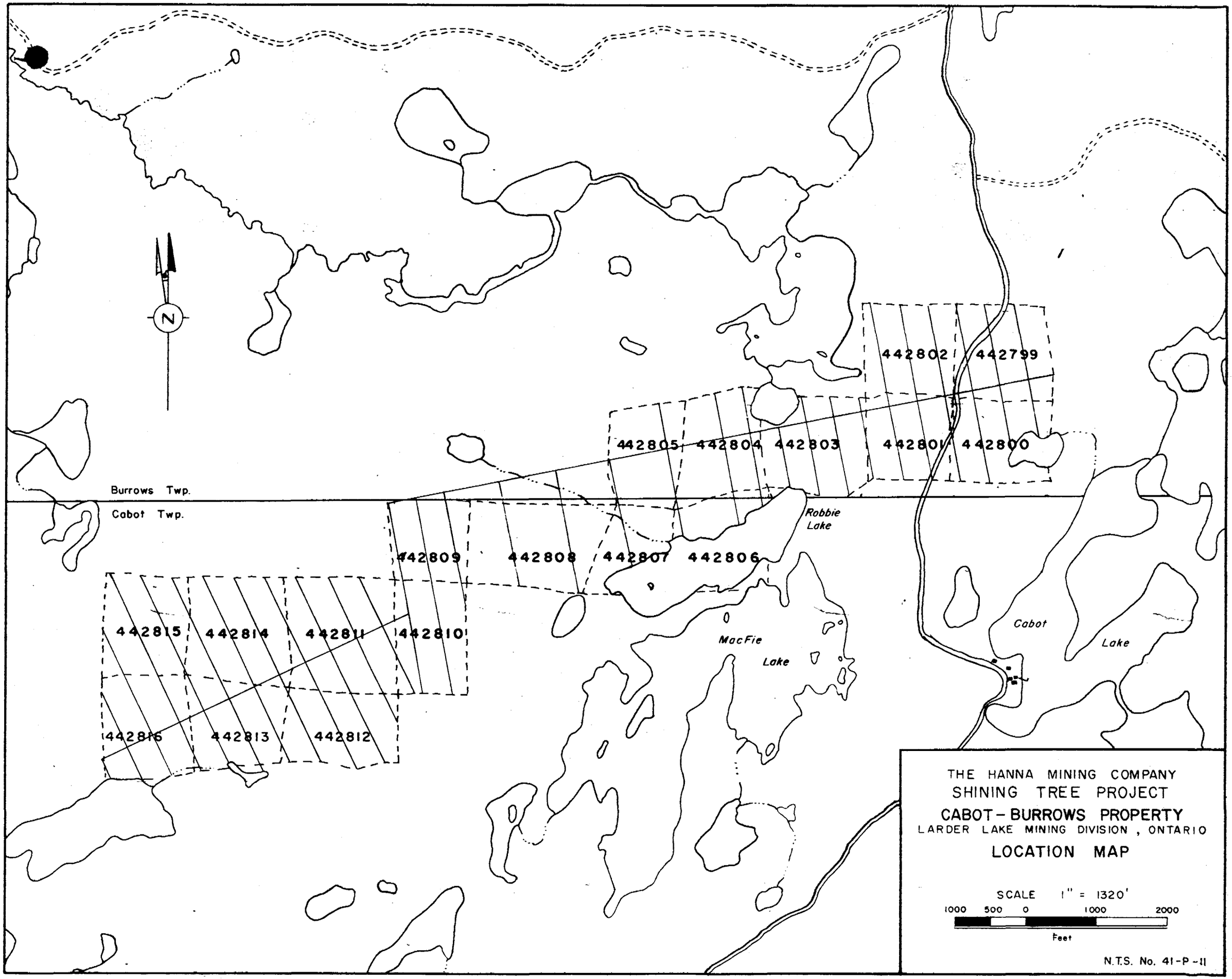
4. That I have no direct or indirect interest in the property.

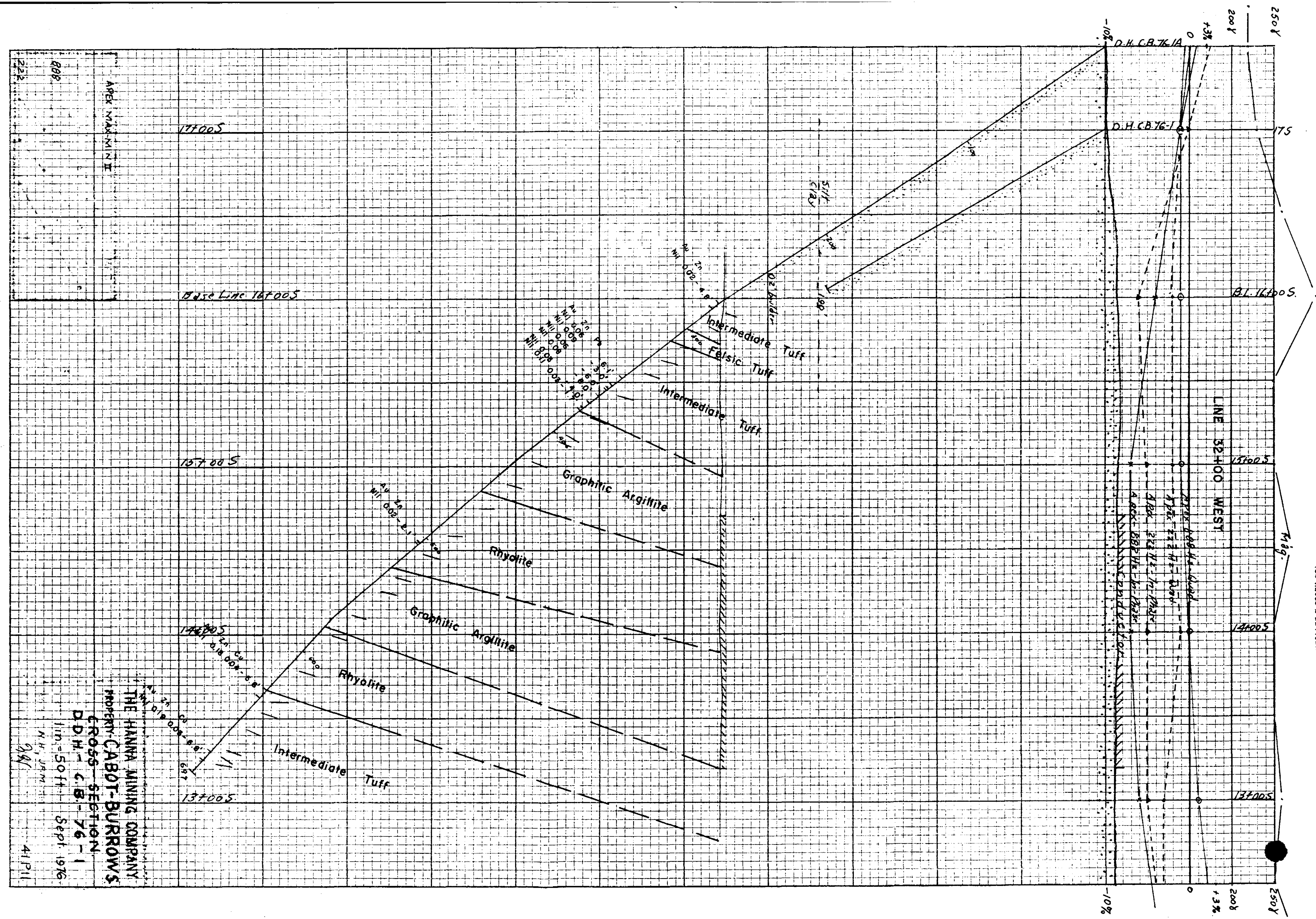
.....

John F. Muhic,
Geologist

November 15, 1976


Hearst
KAPUSKASING
Missinaibi River
Groundhog River
11
Cochrane
n
TIMMINS
101
144
101
101
Chapleau
SHINING TREE PROJECT
560
Montreal River
Batchawana R.
129
17
SAULT STE. MARIE
129
ELLIOT LAKE
17
17
SUDBURY
69
North Channel
(Lake Huron)
LOCATION MAP
showing
SHINING TREE PROJECT
ONTARIO
0 10 20 30 40 50
MILES
NOV. '75


N
442802
442799
442805
442804
442803
442801
442800
Burrows Twp.
Cabot Twp.
Robbie Lake
442809
442808
442807
442806
442815
442814
442811
442810
442816
442813
442812
MacFie Lake
Cabot Lake
THE HANNA MINING COMPANY
SHINING TREE PROJECT
CABOT - BURROWS PROPERTY
LARDER LAKE MINING DIVISION, ONTARIO
LOCATION MAP
SCALE 1" = 1320'
1000 500 0 1000 2000
Feet
N.T.S. No. 41-P-11


THE HANNA MINING COMPANY
PROPERTY-CABOT-BURROWS
CROSS SECTION
D.D.H.- C.B.-76-1
1 in.=50 ft. Sept 1976
LINE 32+00 WEST
D.H. C.B.76-1A
D.H. C.B.76-1
17+00S
Base Line 16+00S
15+00S
14+00S
13+00S
B.L. 16+00S
Intermediate Tuff
Felsic Tuff
Intermediate Tuff
Graphitic Argillite
Rhyolite
Graphitic Argillite
Rhyolite
Intermediate Tuff
Silt Clay
Bulder
Conductor
Mag.
APEX MAX-MIN II
KEUFFEL & ESSER CO.
47 0708
10 X 10 TO THE INCH
-10%
+3%
200'
250'
175
41P11

Felsic Tuff

Graphitic Felsic Tuff

Felsic Tuff

Graphitic Intermediate Tuff

Intermediate Tuff

Graphitic Tuff

Intermediate Tuff

Argillite

Intermediate Tuff

Gravel

Line 68+00 EAST

4+00 S

3+00 S

2+00 S

1+00 S

Base Line

1+00 N

-10%

0%

10%

CABOT-BURROWS

CROSS-SECTION

D.D.H. - CB-76-2

Oct 1976

KEUFFEL & ESSER CO.
10 X 10 TO THE INCH

WM. GERRIE, M.A., P.ENG.
D. KERR-LAWSON, B.A., PH.D., P.ENG.

TELEPHONE 705-642-3244
P.O. BOX 10

Swastika, Ont., P0K 1T0, Oct. 25, 1976 19

SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

No. 4638

We have assayed two samples of split core

Received Oct. 22, 1976 and submitted by The Hanna Mining Company

with the following results:

Sample No.	Gold Ozs/ton	Zinc %
1782	0.005	0.50
1783	Nil	0.16

SWASTIKA LABORATORIES LIMITED,

per: J. C Ben Sawyer

In accordance with long established North American custom unless it is specifically stated otherwise gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the fire assay process.

WM. GIBBRIE, M.A., P.ENG.
D. KERR-LAWSON, B.A., PH.D., P.ENG.

TELEPHONE 705-642-3244
P.O. BOX 10

Swastika, Ont., P0K 1T0, Oct. 12, 1976 19

SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

No. 46364

We have assayed ten samples of split core

Received Oct. 8, 1976 and submitted by The Hanna Mining Company

with the following results:

CABOT - BURROWS
DDH - CB-76-1A

Sample No.	Gold Ozs/ton	Zinc %	Copper %	Lead %
1497	Nil	0.02		
1498	Nil	0.06		
1499	Nil	0.09		
1500	Nil	0.06		
1776	Nil	0.08		
1777	Nil	0.03		
1778	Nil	0.11		0.03
1779	Nil	0.02		
1780	Nil	0.18	0.04	
1781	Nil	0.19	0.03	

SWASTIKA LABORATORIES LIMITED,

per: J. C. Ron Lawson

Ontario

Ministry of I

GEOPHYSICAL – GEOI
TECHNICAL I

41P14SW0074 2.2220 BURROWS

900

by Land
OCT 15 1976
PROJECTS UNIT

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) Geological

Township or Area Cabot Twp. & Burrows Twp.

Claim Holder(s) The Hanna Mining Company
#805, 69 Yonge St., Toronto, Ontario.

Survey Company The Hanna Mining Co.

Author of Report John F. Muhic

Address of Author #805 - 69 Yonge St, Toronto, Ontario

Covering Dates of Survey May 9, 1976 - June 24, 1976
(linecutting to office)

Total Miles of Line Cut 15.28 miles

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
--Radiometric
--Other
Geological 40
Geochemical

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

Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: Oct.1,1976 SIGNATURE: John Muhic
Author of Report or Agent

2.20818 abs.o

Res. Geol. Qualifications On this file -

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
L	442799
L	442800
L	442801
L	442802
L	442803
L	442804
L	442805
L	442806
L	442807
L	442808
L	442809
L	442810
L	442811
L	442812
L	442813
L	442814
L	442815
L	442816

TOTAL CLAIMS 18

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

_____

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 _____

File 2.2220

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

RECEIVED by hand OCT 15 1976 PROJECTS UNIT

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 Electromagnetic

Township or Area Cabot Twp. & Burrows Twp.

Claim holder(s) The Hanna Mining Company
#805, 69 Yonge St., Toronto, Ontario

Author of Report John F. Muhic

Address #805, 69 Yonge St., Toronto, Ontario

Covering Dates of Survey May 9,1976 - June 24, 1976
(linecutting to office)

Total Miles of Line cut 15.28 miles

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	20
--Magnetometer	
--Radiometric	
--Other	
Geological	
Geochemical	

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

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

DATE: Oct.1, 1976 SIGNATURE: John Muhic
Author of Report or Agent

PROJECTS SECTION L.D. 2.2081 & also

Res. Geol. _____ Qualifications on this file –

Previous Surveys 63.3421 not for assessment
no title

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

OFFICE USE ONLY

MINING CLAIMS TRAVERSED
List numerically

If space insufficient, attach list

(prefix)	(number)	
L	442799	1/4
L	442800	1/3
L	442801	1/4
L	442802	1/4
L	442803	1/3
L	442804	1/3
L	442805	1/2
L	442806	
L	442807	3/4
L	442808	1/2
L	442809	1/4
L	442810	1/4
L	442811	1/4
L	442812	1/4
L	442813	1/3
L	442814	1/4
L	442815	1/4
L	442816	1/4

Cycled claim Not covered
area of claims N.C. = 5 1/2
18 x 20 = 360 ÷ (18+5) = 15.23
or 16 days

TOTAL CLAIMS 18

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

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 482 Number of Readings 482

Station interval 100 feet

Line spacing 400 feet

Profile scale ~~or Contour intervals~~ 1" = 10%

(specify for each type of survey)

MAGNETIC

Instrument

Accuracy - Scale constant

Diurnal correction method

Base station location

ELECTROMAGNETIC

Instrument APEX PARAMETRICS MAX-MIN II

Coil configuration Horizontal Loop

Coil separation 600 feet

Accuracy ± 1%

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

Frequency 888 Hz, 222 Hz

(specify V.L.F. station)

Parameters measured Field strength in percent

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 2.2220

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

RECEIVED
by hand
OCT 15 1976
PROJECTS UNIT

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: Cabot Twp. & Burrows Twp.

Claim holder(s): ~~The Hanna Mining Company~~
#805, 69 Yonge St., Toronto, Ontario.

Author of Report: John F. Muhic

Address: #805, 69 Yonge St., Toronto, Ont.

Covering Dates of Survey: May 9, 1976 - June 24, 1976
(linecutting to office)

Total Miles of Line cut: 15.28

SPECIAL PROVISIONS CREDITS REQUESTED

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

ENTER 20 days for each additional survey using same grid.

Geophysical	DAYS per claim
--Electromagnetic	
--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: Oct.1/1976 SIGNATURE: [signature]
Author of Report or Agent

PROJECTS SECTION

Res. Geol. ______ Qualifications: 2.2081 & also on this file –

Previous Surveys ______

Checked by ______ date ______

GEOLOGICAL BRANCH ______

Approved by ______ date ______

GEOLOGICAL BRANCH ______

Approved by ______ date ______

OFFICE USE ONLY

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)	
L	442799	✓
L	442800	1/4
L	442801	✓
L	442802	✓
L	442803	1/4
L	442804	1/3
L	442805	1/2
L	442806	2/3
L	442807	2/3
L	442808	1/2
L	442809	✓
L	442810	✓
L	442811	✓
L	442812	✓
L	442813	✓
L	442814	✓
L	442815	✓
L	442816	✓

Area of claims not covered = 3 1/6 20×18 = 360 ÷ (18+3) = 17 days

If space insufficient, attach list

TOTAL CLAIMS 18

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

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 234 Base Stations Number of Readings 1360 picket line stations.

Station interval 50 feet 25' in anomalous areas

Line spacing 400'

~~Profile scale~~ or Contour intervals 100 gammas
(specify for each type of survey)

MAGNETIC

Instrument SCINTREX MF2

Accuracy - Scale constant 20 gammas/scale division on the most sensitive scale

Diurnal correction method CLOSED LOOP

Base station location and value: 00+00 340 gammas

Base Station check-in interval(hours): Approx. 3/4 hour.

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

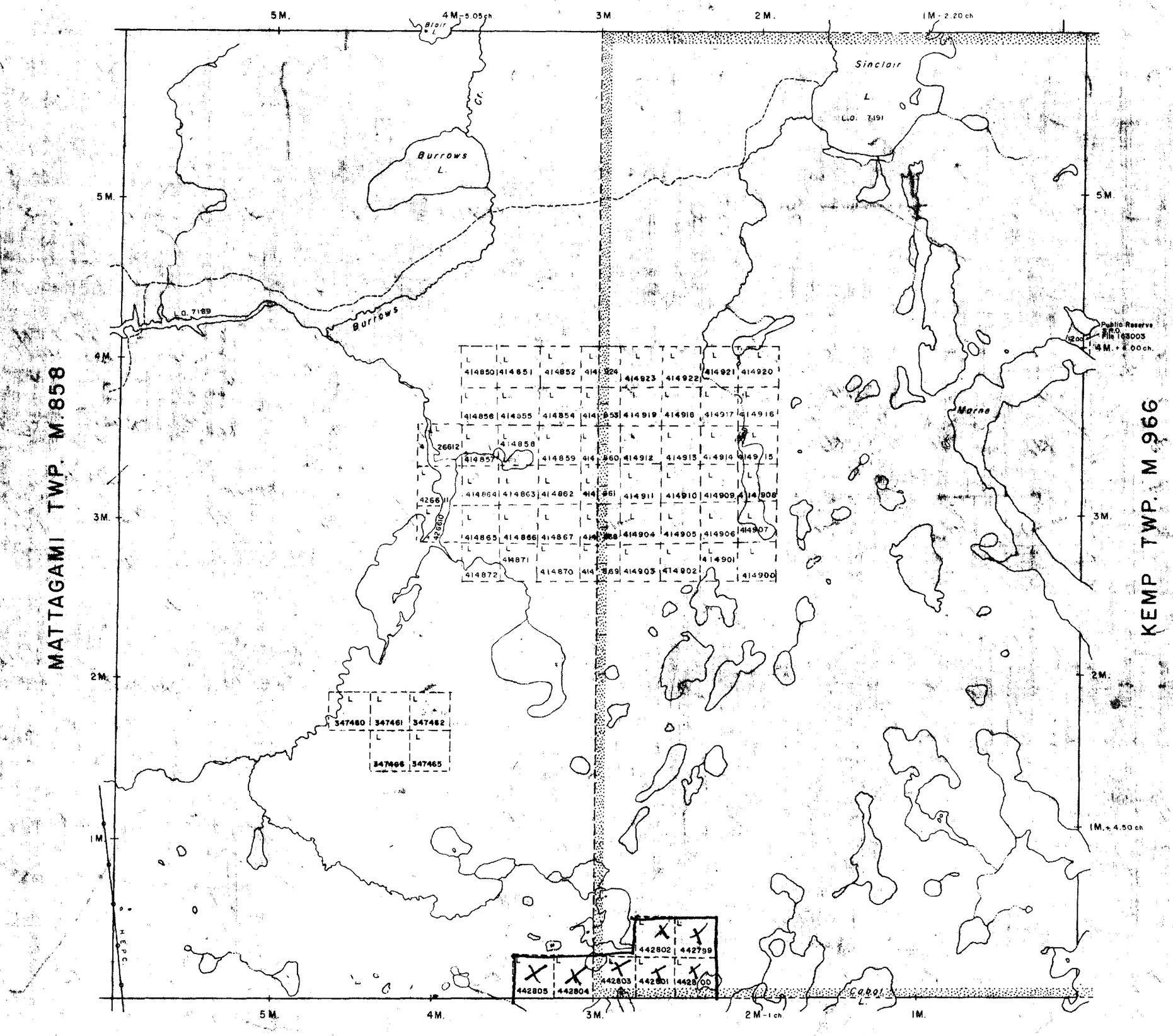
Power

Electrode array

Electrode spacing

Type of electrode

NURSEY TWP. M.1031



TWP. M.858

MATTAGAMI

KEMP TWP. M.966

CABOT TWP. M.695

THE TOWNSHIP OF 2.2220

BURROWS

DISTRICT OF SUDBURY

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	

NOTES

400' surface rights reservation around all lakes and rivers.

Flooding rights to elev. 1115 on Sinclair Lake to H.E.P.C. L.O. 7191. File 1162 wp.4.

Flooding rights between elev. 1070 and the high water mark on Burrows Creek to H.E.P.C. L.O. 7189. File 36881.

Mining Rights Only for mining claims staked after Sept. 13, 1957 within area shown thus ..... . Surface Rights withdrawn for reforestation under sec. 36 (d) of the Mining Act. File 16070.

DATE OF ISSUE
OCT 18 1976
SURVEYS AND MAPPING BRANCH

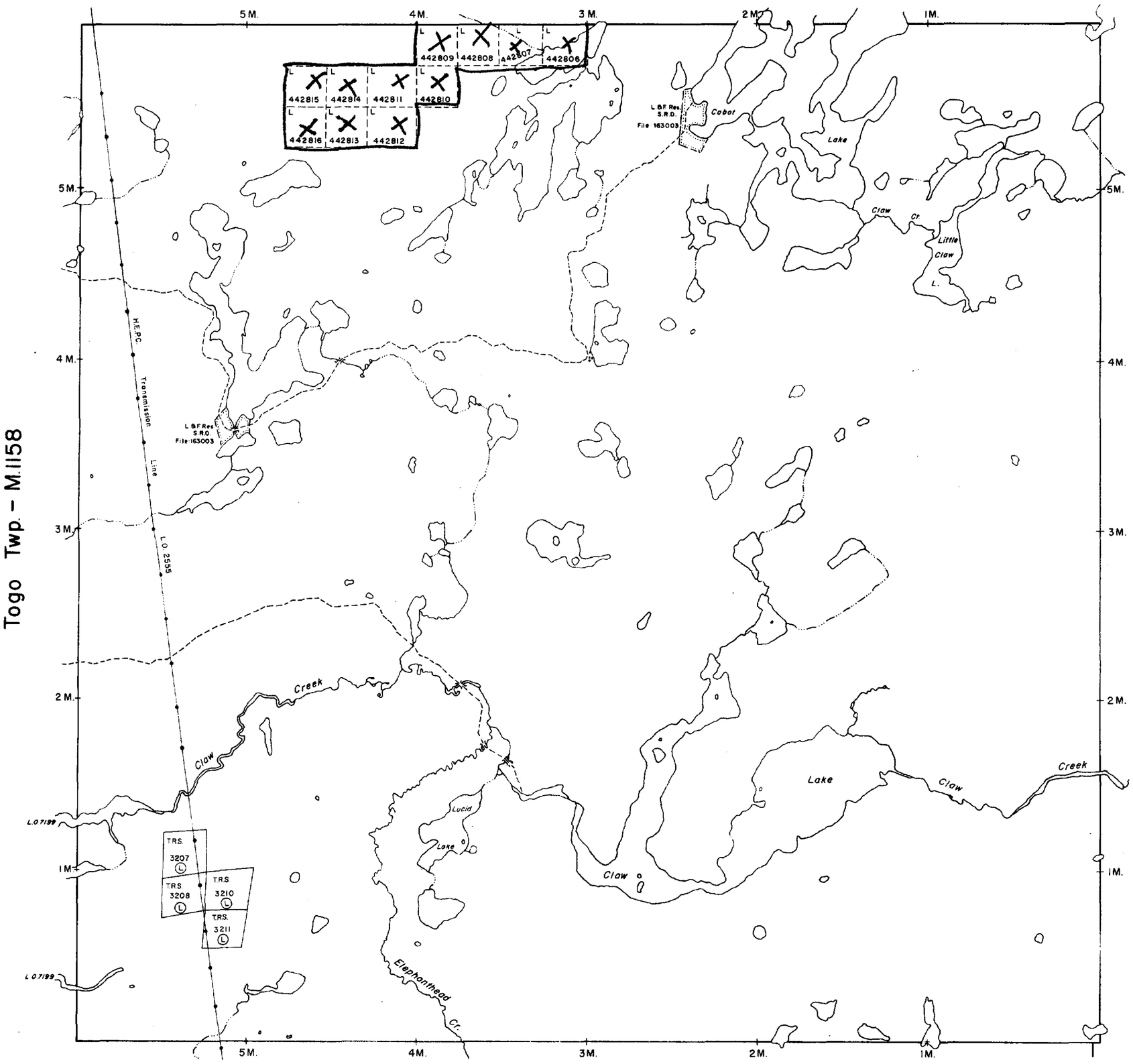
PLAN NO. M. 691

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

41P14SW0074 2.2220 BURROWS

200

Burrows Twp. – M.691



Togo Twp. – M.1158

Kelvin Twp. – M.964

Connaught Twp. – M.730

THE TOWNSHIP OF 2.2220

CABOT

DISTRICT OF SUDBURY

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 along the shores of all lakes and rivers.

Flooding rights on Mattagami Lake to contour elev. 1070' to Northern Ont. Power Co. Ltd. L.O. 7199. File: 36881.

PLAN NO.- M.695

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

D.R.

'71 rev.

LEGEND

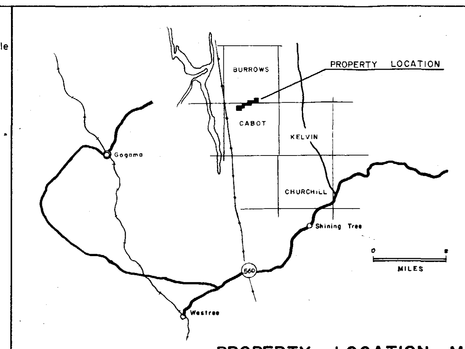
- I_{Db} Diabase intrusive
- I_{Gb} Gabbro intrusive
- V_a Acid volcanics
- V_{Int} Intermediate volcanics
- V_{Da} Dacite
- V_B Basic volcanics

ABBREVIATIONS

bx	brecciated
fng	fine grained
mdg	medium grained
csg	coarse grained
msv	massive
pll'd	pillowed
cb	carbonate
chl	chlorite
py	pyrite
q.e.	quartz eyes
q.v.	quartz vein
ser	sericite

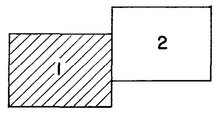
SYMBOLS

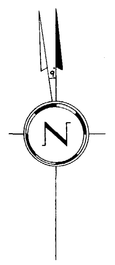
- Boundary of high ground
- Flooded ground or bog
- Muskeg or swamp
- Boundary of muskeg, swamp
- Creek—flow direction
- Motor road
- Trail or bush road
- Claim post, claim line
- Drill hole—vertical, inclined
- Geological boundary—defined, approximate
- Strike and dip of bedding—vertical, inclined
- Strike and dip of foliation or schistosity—vertical, inclined
- Direction of flow top from shapes of pillows
- Glacial striae—bearing and direction
- Rock outcrop—small, large
- Rock sample



PROPERTY LOCATION MAP

SHEET INDEX





THE HANNA MINING COMPANY
SHINING TREE PROJECT
CABOT — BURROWS PROPERTY
LARDER LAKE MINING DIVISION
ONTARIO

GEOLOGIC MAP

SCALE 1" = 200'

200 0 200 400 600
Feet

Work by John Lea Date	Interpretation by John Lea Date June 25, 1976	Revised N.T.S. No. 41-P-11

41P14SW0074 2.2028 BURROWS

220

LEGEND

- Idb Diabase intrusive
- Igb Gabbro intrusive
- Va Acid volcanics
- Vint Intermediate volcanics
- Vda Dacite
- Vb Basic volcanics

ABBREVIATIONS

bx	brecciated
fng	fine grained
mdg	medium grained
csg	coarse grained
msv	massive
pll'd	pillowed
cb	carbonate
chl	chlorite
py	pyrite
q.e.	quartz eyes
q.v.	quartz vein
ser	sericite

SYMBOLS

- Boundary of high ground
- Flooded ground or bog
- Muskeg or swamp
- Boundary of muskeg, swamp
- Creek - flow direction
- Motor road
- Trail or bush road
- Claim post, claim line
- Drill hole - vertical, inclined
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- Strike and dip of bedding - vertical, inclined
- Strike and dip of foliation or schistosity - vertical, inclined
- Direction of flow top from shapes of pillows
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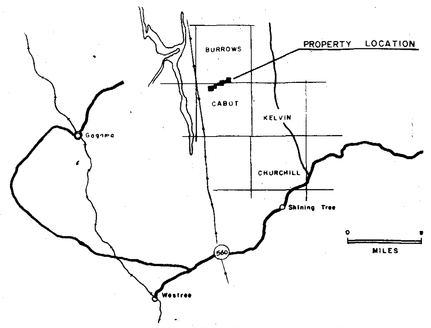
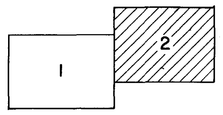
- Rock outcrop - small, large
- Rock sample



PROPERTY LOCATION MAP

SHEET INDEX



THE HANNA MINING COMPANY
SHINING TREE PROJECT
CABOT — BURROWS PROPERTY
LARDER LAKE MINING DIVISION
ONTARIO

GEOLOGIC MAP

SCALE 1" = 200'

200 0 200 400 600
Feet

Work by John Arthur	Interpretation by John Arthur	Revised
Date	Date June 20, 1974	N.T.S. No. 41-P-11

LEGEND

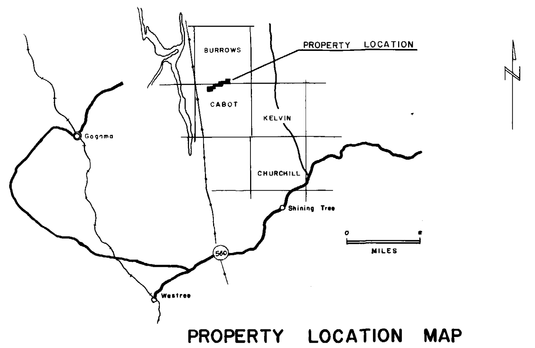
- Hundred Gamma Contour
- Thousand Gamma Contour
- Closed Magnetic Low

SYMBOLS

- Creek
- Lakeshore
- Motor Road or Highway
- Bush Road
- Claim Post, Claim Line

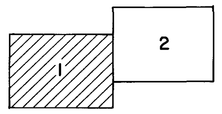
INSTRUMENT:

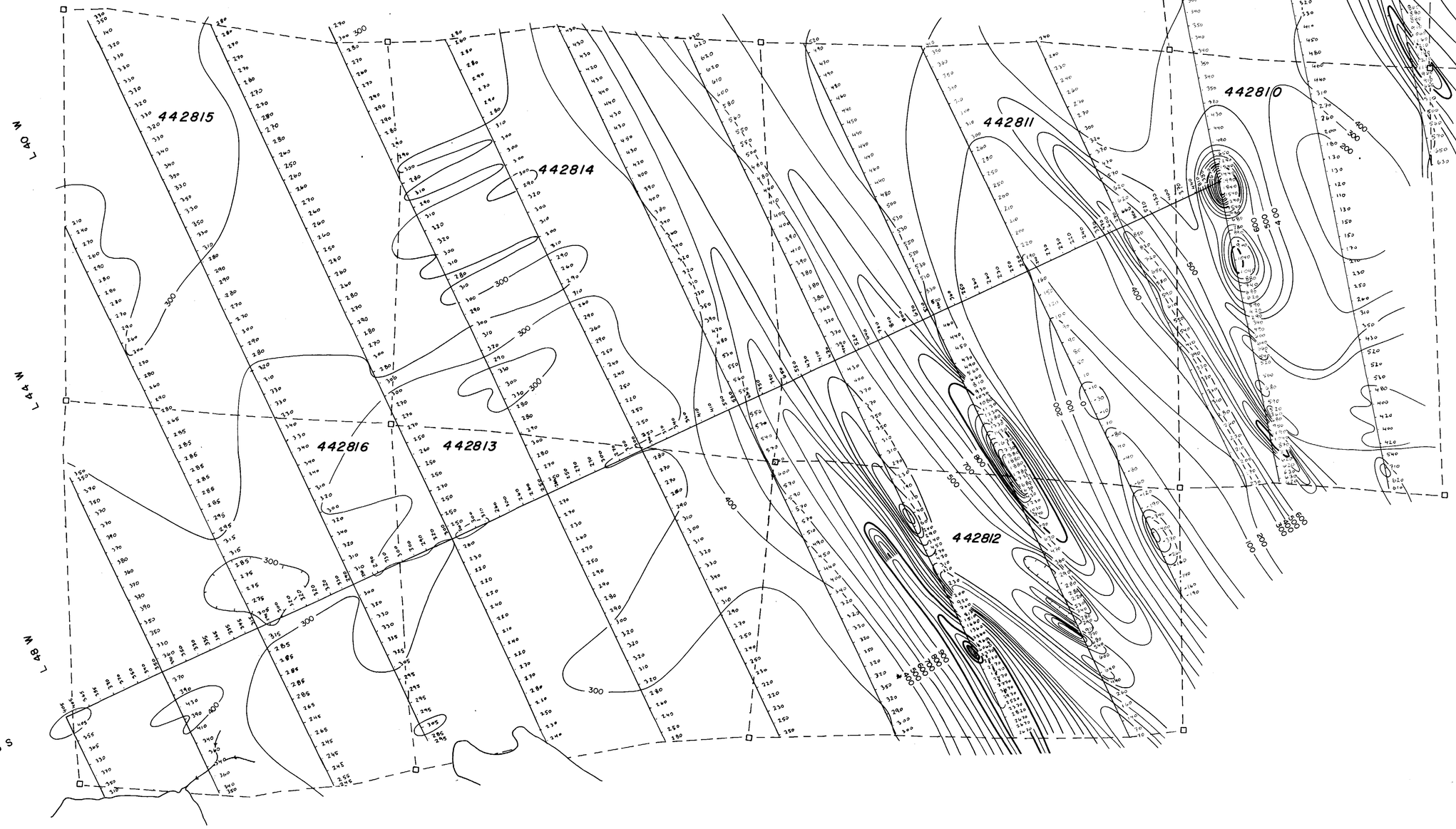
Scintrex MF-2 Fluxgate Magnetometer



PROPERTY LOCATION MAP

SHEET INDEX





THE HANNA MINING COMPANY
SHINING TREE PROJECT

CABOT — BURROWS PROPERTY

LARDER LAKE MINING DIVISION
ONTARIO

MAGNETIC MAP

SCALE 1" = 200'

200 0 200 400 600
Feet

Work by	Interpretation by John White	Revised
Date	Date June 1st, 1976	N.T.S. No. 41-P-11

LEGEND

Hundred Gamma Contour

Thousand Gamma Contour

Closed Magnetic Low

SYMBOLS

Creek

Lakeshore

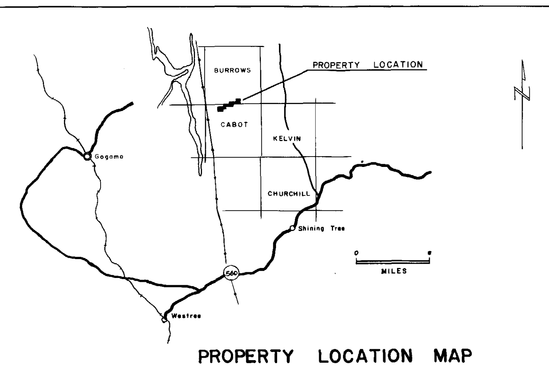
Motor Road or Highway

Bush Road

Claim Post, Claim Line

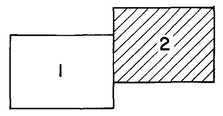
INSTRUMENT:

Scintrex MF-2 Fluxgate Magnetometer



PROPERTY LOCATION MAP

SHEET INDEX



L 72 E
L 76 E
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L 68 E
L 64 E
L 60 E
L 56 E
L 52 E
L 48 E
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L 32 E
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442799
442802
442801
442800
442804
442803
442805
442806
442807
442808
ROBBIE
LAKE

THE HANNA MINING COMPANY
SHINING TREE PROJECT

CABOT — BURROWS PROPERTY

LARDER LAKE MINING DIVISION
ONTARIO

MAGNETIC MAP

SCALE 1" = 200'

200 0 200 400 600
Feet

Work by	Interpretation by	Revised
Date	Date June 28, 1974	N.T.S. No. 41-P-11

LEGEND

888 Hz APEX 222 Hz

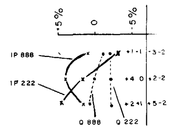
In-Phase	Quadrature	In-Phase	Quadrature
-1	+1	-1	+1

INSTRUMENT

APEX Parametrics Max min II

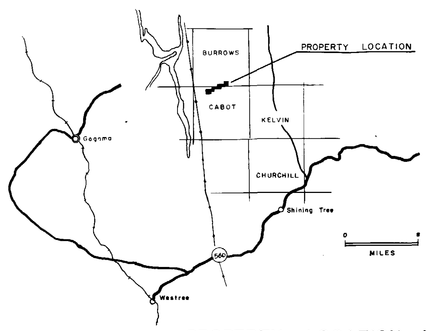
Coil Spacing 600 feet

APEX MAX MIN II PROFILE



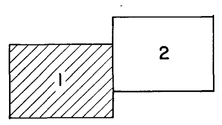
SYMBOLS

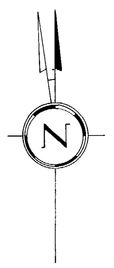
- Creek
- Lakeshore
- Motor Road or Highway
- Bush Road
- Claim Post, Claim Line

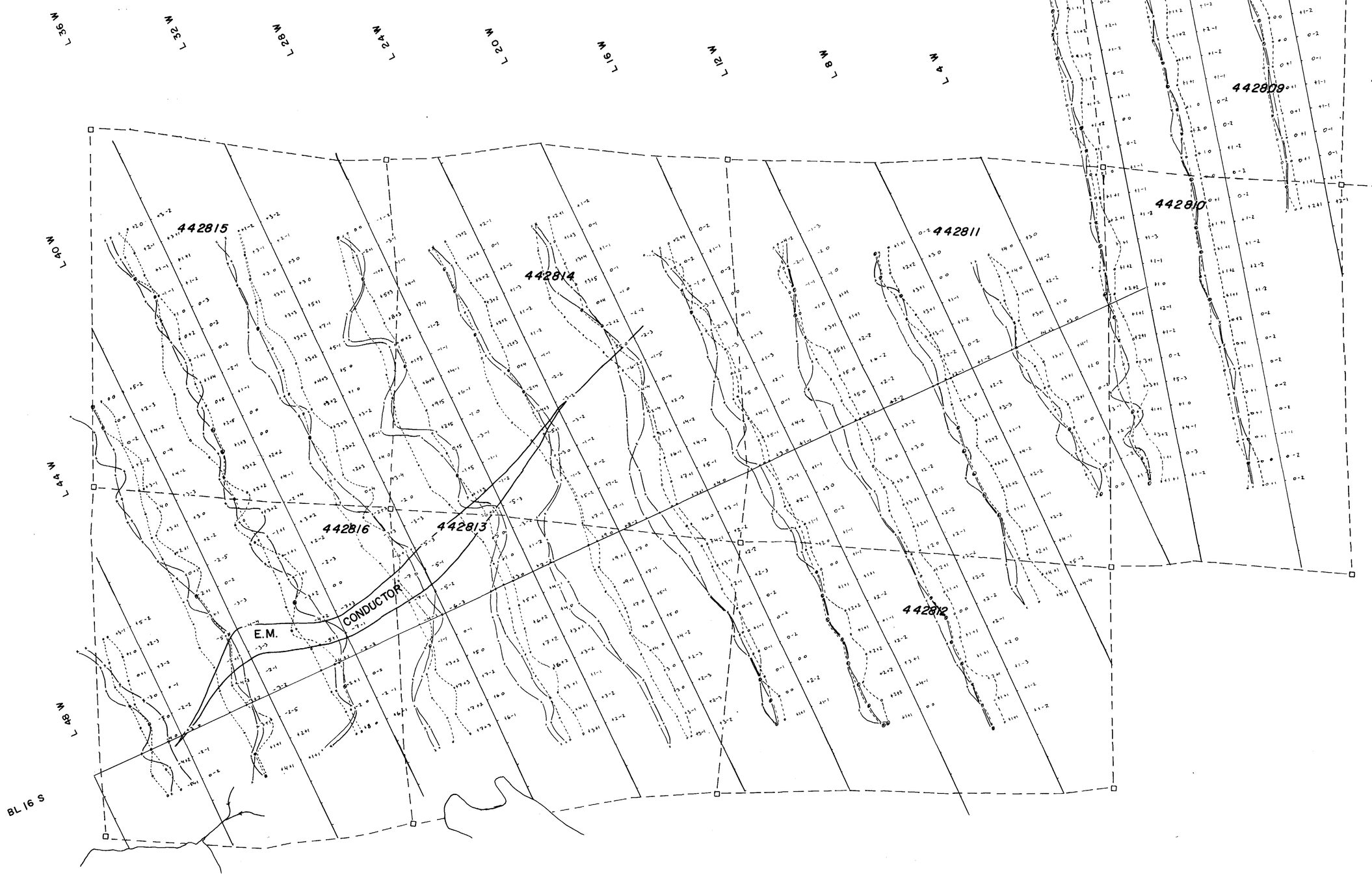


PROPERTY LOCATION MAP

SHEET INDEX







THE HANNA MINING COMPANY

SHINING TREE PROJECT

CABOT — BURROWS PROPERTY

LARDER LAKE MINING DIVISION
ONTARIO

ELECTROMAGNETIC MAP

SCALE 1" = 200'

200 0 200 400 600
Feet

Work by	Interpretation by	Revised
Date	Date June 27, 1974	N.T.S. No. 41-P-11

LEGEND

888 Hz APEX 222 Hz

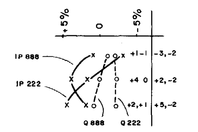
In-Phase	Quadrature	In-Phase	Quadrature
+ I	+ I	+ I	+ I

INSTRUMENT

APEX Parametrics Max min II

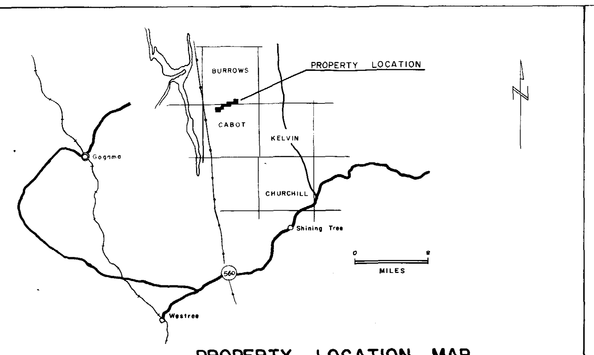
Coil Spacing 600 feet

APEX MAX MIN II PROFILE



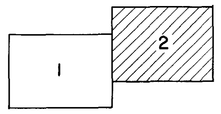
SYMBOLS

- Creek
- Lakeshore
- Motor Road or Highway
- Bush Road
- Claim Post, Claim Line



PROPERTY LOCATION MAP

SHEET INDEX



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L 88 E
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BL 00

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442799
442800

E.M. CONDUCTOR

ROBBIE LAKE

THE HANNA MINING COMPANY

SHINING TREE PROJECT

CABOT — BURROWS PROPERTY

LARDER LAKE MINING DIVISION
ONTARIO

ELECTROMAGNETIC MAP

SCALE 1" = 200'

200 0 200 400 600
Feet

Work by	Interpretation by: John Weber	Revised
Date	Date June 25, 1976	N.T.S. No. 41-P-11

41P14SW0074 2.2228 BURROWS

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