



41P15NW0201 2.14751 MONTROSE

010

RSGM R. Somerville Geological & Mining Engineering Ltd.

Ste. 630 - 171 West Esplanade • North Vancouver, B.C., Canada V7M 3K9 • (604) 986-5766 Fax (604) 986-8701

A GEOPHYSICAL REPORT

ON

A HORIZONTAL LOOP EM SURVEY

FOR

CLAIMSTAKER RESOURCES LTD.

In Montrose Township, Ontario

Date: September 10, 1992

By: R. Somerville, P.Eng.

2.11829

2.14751

RECEIVED

OCT 09 1992

MINING LANDS BRANCH

RECEIVED

OCT 09 1992

MINING LANDS BRANCH

RSGM R. Somerville Geological & Mining Engineering Ltd.

Ste. 630 - 171 West Esplanade • North Vancouver, B.C., Canada V7M 3K9 • (604) 986-5766 Fax (604) 986-8701

2. 1475 1

A GEOPHYSICAL REPORT

ON

A HORIZONTAL LOOP EM SURVEY

FOR

CLAIMSTAKER RESOURCES LTD.

In Montrose Township, Ontario

Date: September 10, 1992

By: R. Somerville, P.Eng.

2 11825



41P15NW0201 2.14751 MONTROSE

010C

TABLE OF CONTENTS

	PAGE
1. INTRODUCTION	1
1.1 Location and Access	1
Location Map Figure #1	3
Claim and Location Map Figure #2	4
1.2 Physiography	5
1.3 Claim Information	5
Table 1 Claim Information	7
1.4 Property History	8
2. GEOLOGY	12
2.1 Regional Geology	12
2.2 Stratigraphy and Structural Geology	12
District Geology of the Timmins Area Figure #3	14
2.3 Mineral Deposits	15
3.0 GEOPHYSICS	16
3.1 Airborne Geophysics	16
Geophysical Summary Figure #4	18
3.2 Ground Geophysics	19
3.2.1 General	19
3.2.2 Instrument and Operation of the Survey	19
3.2.3 Discussion	21
4.0 RECOMMENDATION	22
APPENDIX	
Statement of Qualification	24
Bibliography	25
Pocket	
Map #1 HLEM Survey Freq 444 Hz	
Map #2 HLEM Survey Freq 1777 Hz	

1. INTRODUCTION

A horizontal loop EM survey was carried out on the company's Montrose Township property in Ontario, on April 4 and 5, 1992. During the previous 2 weeks, new lines were cut and picketed for the survey.

A total of 10.24 km. (6.4 miles) of line were cut, flagged, and picketed.

The survey was run by Timmins Geophysics Ltd. using a Maxmin I-5 HEM unit on 5.2 miles of line with 400 foot line spacing between the lines. The lines are oriented East-West. A moderate anomaly extending for at least 1200 feet was detected between lines 3600 and 4800 North.

1.1 Location and Access

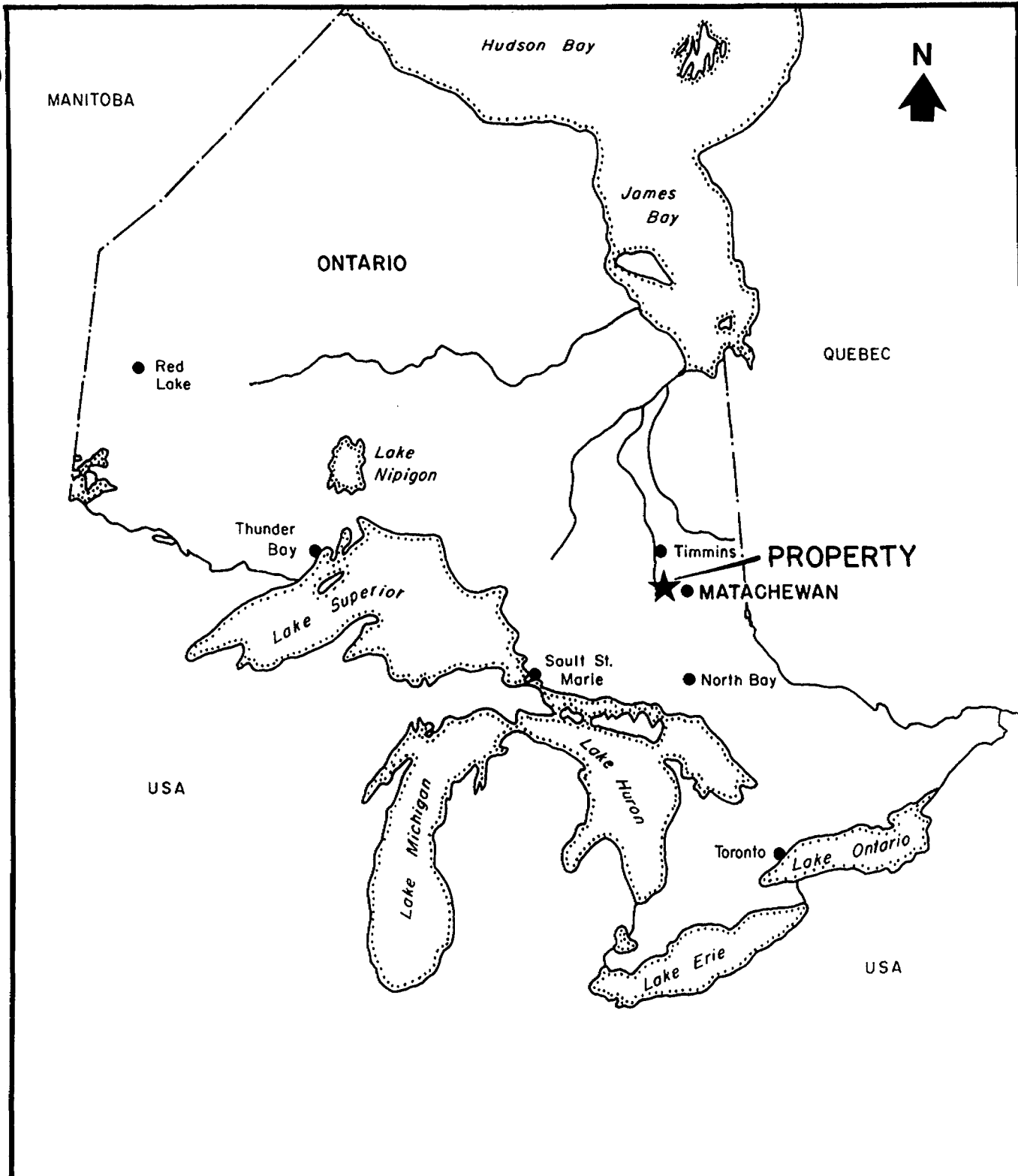
Claimstaker Resources Ltd.'s Montrose Township property is located in the northeastern corner of Montrose Township. This township is located within the Timiskaming Regional District of Northeastern Ontario and the Larder Lake Mining District.

Timmins is the nearest major centre and is located roughly 65 km. northwest of the property (see Figure 1). Matachewan is the nearest sizable community (population 500) and is located roughly 22 km. to the east. Kirkland Lake where the nearest mining

recorder's office is located, is roughly 55 km. to the northeast.

Geographically the property is roughly centred over Dara Lake. Mount Sinclair Lake occurs a few miles south of the property.

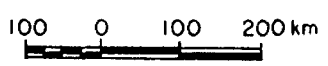
Access to the property is provided by a network of gravel roads. These originate off Highway 566 in the vicinity of Argyle Lake (see Figure 2). Although passable for cars, these roads are most reliably used by four-wheel drive vehicles. Numerous old logging roads exist on the property, however, these would require upgrading (Figure 2). Highway 566 originates in Matachewan and continues up to Timmins. In winter this is one of the few roads which is maintained.

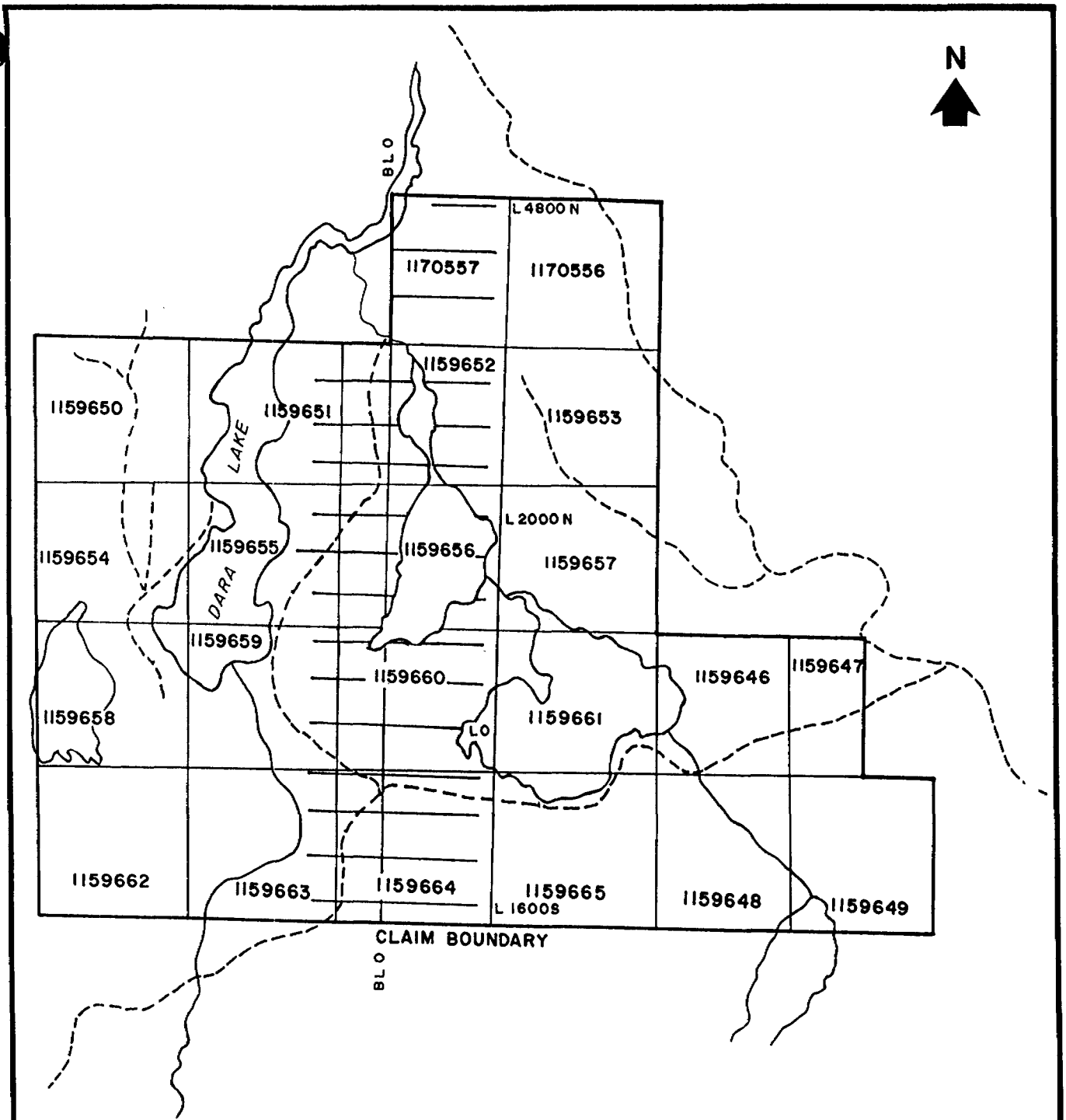


**CLAIMSTAKER RESOURCES LTD.
MONTROSE TOWNSHIP PROPERTY**

LOCATION MAP

DATE : SEPT. 10, 1992 FIGURE 1

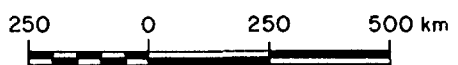




**CLAIMSTAKER RESOURCES LTD.
MONTROSE TOWNSHIP PROPERTY**

CLAIM AND LOCATION MAP

DATE : SEPT. 10, 1992 FIGURE 2



1.2. Physiography

The property is partially covered by a number of small lakes with intervening rolling hills. Elevations range from 1,100 to just over 1,300 feet. Dara Lake is the largest body of water on the claims, and occupies an area of roughly 200 x 1,000 m. Four other lakes are also present, mostly in the area of the grid. The White River draining out of the south end of Dara Lake is the headwaters of the Whitefish River.

Vegetation consists of a mixture of balsam spruce, poplar and birch. Logging has removed many of the mature trees leaving a dense undergrowth in places. Cedar trees occur in more swampy portions of the property.

The climate is typical for northern Ontario with the winters cold and harsh and the summers quite warm. The annual snowfall average is about two meters. This usually begins to accumulate in November and generally leaves by the end of April.

1.3. Claim Information

The property consists of 22 unpatented claims (see Table 1). These were staked between September 8th and 12th for claims 1159646 to 1159665, and on October 22nd for 1170556 and 1170557. The current expiry dates before submission of the work completed this past year are as shown on Table 1. It is anticipated that approximately one year can be filed on each of the claims. The

locations for most of claim posts in the area of the grid are shown on Figure 2.

The claims are held in the name of Brian V. Hall, RR #1 L-9, Bowen Island, BC and are being held in trust for Claimstaker Resources Ltd. which is located at:

Suite 630 - 171 West Esplanade
North Vancouver, BC, V7M 3K9

TABLE 1
Claim Information

<u>Claim Number</u>	<u>Staking Date</u>	<u>Expiry Date</u>
1159646	September 12, 1990	September 18, 1993
1159647	September 12, 1990	September 18, 1992
1159648	September 12, 1990	September 18, 1992
1159649	September 12, 1992	September 18, 1992
1159650	September 8, 1990	September 18, 1992
1159651	September 8, 1990	September 18, 1992
1159652	September 9, 1990	September 18, 1993
1159653	September 9, 1990	September 18, 1992
1159654	September 8, 1990	September 18, 1992
1159655	September 8, 1990	September 18, 1993
1159656	September 9, 1990	September 18, 1993
1159657	September 9, 1990	September 18, 1993
1159658	September 10, 1990	September 18, 1992
1159659	September 10, 1990	September 18, 1993
1159660	September 11, 1990	September 18, 1993
1159661	September 11, 1990	September 18, 1993
1159662	September 10, 1990	September 18, 1992
1159663	September 10, 1990	September 18, 1992
1159664	September 11, 1990	September 18, 1992
1159665	September 11, 1990	September 18, 1992
1170556	October 22, 1990	October 23, 1992
1170557	October 22, 1990	October 23, 1992

1.4 Property History

Prospecting in Matachewan area commenced about 1906, soon after the important discoveries of the Cobalt Camp to the southeast. The first major discoveries in the area occurred in Powell Township in 1916. Jake Davidson made the initial discovery on claims which are now held by Young-Davidson Mines Limited. Shortly thereafter Sam Otisse discovered gold on claims that now belong to Matachewan Consolidated Mines Limited. Production began on the Young-Davidson property in September of 1934 at a rate of 500 tons per day. Also in 1934, the Sam Otisse discovery went into production by Matachewan Gold Mines Limited at a rate of 85 tons per day. In 1954 when the mine had closed, a total of 3,535,200 tons of ore had been mined, from which 370,427 ounces of gold and 133,710 ounces of silver had been produced. The Young-Davidson Mine ceased production in 1956 having produced 6,128,272 tons of ore containing 585,690 ounces of gold, and 131,989 ounces of silver (Lovell, H.L., 1967).

Interest in the area of Montrose Township increased significantly in the fall of 1930 when several rich gold-bearing quartz veins were discovered by B. Ashley and William Garvey. This discovery was located in Bannockburn Township approximately 4 km. northeast of the claims held by Cascade Pacific. Diamond drilling in the winter of 1930-31 preceded the sinking of an inclined shaft with a total of 1,133 feet of drilling on four levels down to 500 feet. By 1932 a 75 ton per day mill was in the process of

construction, plus a transmission line had been built by the Northern Ontario Power Company. Access before 1931 consisted of several canoe routes, the best of which originated at Elk Lake. Later a gravel road was constructed from Elk Lake to the Ashley Mine (Rickaby, A., 1932a). No records are available on the production history for the Ashley Mine except passing reference about the mine closing in the 1950's (Watts, A., 1984).

The earliest recorded work on the Montrose Township property of Claimstaker Resources Ltd. was by the Ontario Department of Mines in 1932 (Rickaby, H.C., 1932a). The following is extracted from this report.

"This group of nine claims, Nos. 9170 to 9178, inclusive, lying east of Dara Lake, is controlled by J. Leliever, of Kirkland Lake. Some work has been under the direction of Sandy McIntyre. The showings are connected with a pyrite body occurring in the rhyolite on claim No. 9178. The pyrite is associated with a massive cherty quartz, which appears to be in the form of a very acid intrusion, in rhyolite. In places the quartz was glassy and dark-coloured and contained large fragments of jasper. The quartzose bodies were in the form of lenses or plum-shaped bodies with widths of up to 100 feet, and striking N30 E. The rhyolite has been sheared and both rhyolite and quartz are heavily mineralized with massive fine-grained pyrite. Low values in gold were reported, but two grab samples of the pyritized quartz gave no gold on assay."

The work consisted mostly of trenching, of which the remnants of approximately fifteen to twenty trenches are still discernable. These trenches were all hand dug, and the largest was almost 30 m. in length with an average depth of approximately 1.0 m.

The next known work program was in the early 1980's when Marjell Mines Limited acquired the property through staking. Although only a limited amount of work was carried out, the existing trenches were refurbished along with some improvements to the roads. Soon afterwards, Marjell Mines Limited ceased to be a

viable company and the claims were allowed to lapse (B. Hall 1991).

Later in 1984 the northern portion of the property was acquired by Canamax Resources Inc. Also in 1984, Aerodat Ltd. completed an airborne survey over most of the Hincks Twp., plus the northern portion of Montrose Twp. This survey was flown at a line spacing of 100 m using flight lines that were oriented at N45 E. As a result of this survey a number of north to northwesterly trending conductors were noted, three of which are situated on ground presently held by Claimstaker Resources Ltd. (Watts, A., 1984).

In 1989, the property was once again staked, this time by M. Tremblay of Timmins. Some linecutting and geological mapping was carried out. However, this work was not sufficiently detailed to allow any claims to be held and not the claims expired in August of 1990.

Adjacent to the Montrose Township property to the east and north a considerable amount of work has been carried out. This has included drilling programs by Golden Bounty Mining Company Limited, Canamax Resources Inc., plus several individuals (McCannell, J.D., 1974; Watts, A., 1984). At least three airborne geophysical surveys, plus two ground surveys have also been completed. In addition numerous mapping and trenching programs have also been carried out. Most recently Montrose Gold Mines Limited announced the completion of a drilling program on the claims that adjoin to Claimstaker's northern claim boundary.

Government surveys in the area of Montrose Township began in

1896 with some reconnaissance mapping (Burwash, E.M., 1896). Further mapping was carried out in 1911 by J.G. McMillan who accompanied a party surveying the Timiskaming and Northern Ontario Railway Trail Line between Gowganda and the Porcupine. The most detailed mapping project to date was completed in 1932 by H.C. Rickaby of the Ontario Department of Mines. Detailed examinations of all the active mineral properties were carried out together with pace and compass traverses over both Montrose, Hincks, Argyle and Bannockburn Townships (Rickaby, H.C., 1932a, b). Lastly, the Ontario Division of Mines completed an airborne geophysical survey in 1975 over the northern half of Montrose Township. This survey was carried out by Questor Surveys Limited using flight lines that were orientated north-south.

2.0 GEOLOGY

2.1 Regional Geology

The Montrose Township property is situated on the southwestern flank of the Abitibi Greenstone Belt of the Superior Province. The volcanic and sedimentary rocks of the Timmins - Noranda portion of the Abitibi Greenstone Belt form a large easterly trending synclinerium. Domal tonalite to trondhjemitic batholiths and gneissic terrains are present to the north, south and west of this synclinerium. Two major fault zones, the Destor-Porcupine and the Kirkland Lake Cadillac transect the northern and southern limbs.

Numerous small plutons of granodioritic to syenitic composition cut all the volcanic and sedimentary rocks. Diabase dykes varying from Archean to Late Proterozoic in age occur throughout the area, and Proterozoic sedimentary rocks of the Huronian Supergroup onlap the Archean rocks to the south (Jensen, L.S., 1986).

2.2 Stratigraphy and Structural Geology

The regional mapping for the area by Rickaby (1932b) shows that the rocks are a sequence of steeply dipping Archean felsic and mafic volcanic rocks striking in a more or less east west direction. Although Rickaby's observations seem to generally correct, in detail the rocks appear to have been folded into a steep fold on a northerly or northwesterly axis through the area of

the property. As Hall (1991) states:

"the stratigraphy in Montrose Township appears to strike north to northwesterly. Several factors collaborate this hypothesis such as: 1) the overall northwesterly grain to the regional airborne survey (ODM, 1975); 2) the preponderance of northwesterly striking bedding attitudes in Hincks, Argyle and Bannockburn Townships (Rickaby, H.C., 1932b); plus 3) the detailed mapping carried in 1991 by Cascade Pacific Explorations Ltd. This evidence is all at odds with east-west strike of Rickaby's 1932 Geological Map.

The dominant faulting direction appears to be north-south and to the northeast. This based largely on the orientation of some of the major bodies of water, plus the regional mapping in Midlothian and Halliday Townships to the south (Bright, E.G., 1970). Coincidentally, if the Cadillac-Kirkland Lake Break were projected from the vicinity of Matachewan through the overlying Gowganda Formation it could likely pass through the area of Montrose Township."

According to Hall (1990), the property itself is probably underlain by a sequence of pillowed mafic lavas and tuffs in which occurs a 10 m. thick interval of siliceous exhalite. The exhalite zone appear to strike northerly and is steeply dipping, probably to the east. A zone of hydrothermally altered rock surrounds the exhalite.

The McIntyre-Leliever showing on the Montrose Township property (A siliceous exhalite) consists of well banded pyritic chert of about 10 m. thickness.

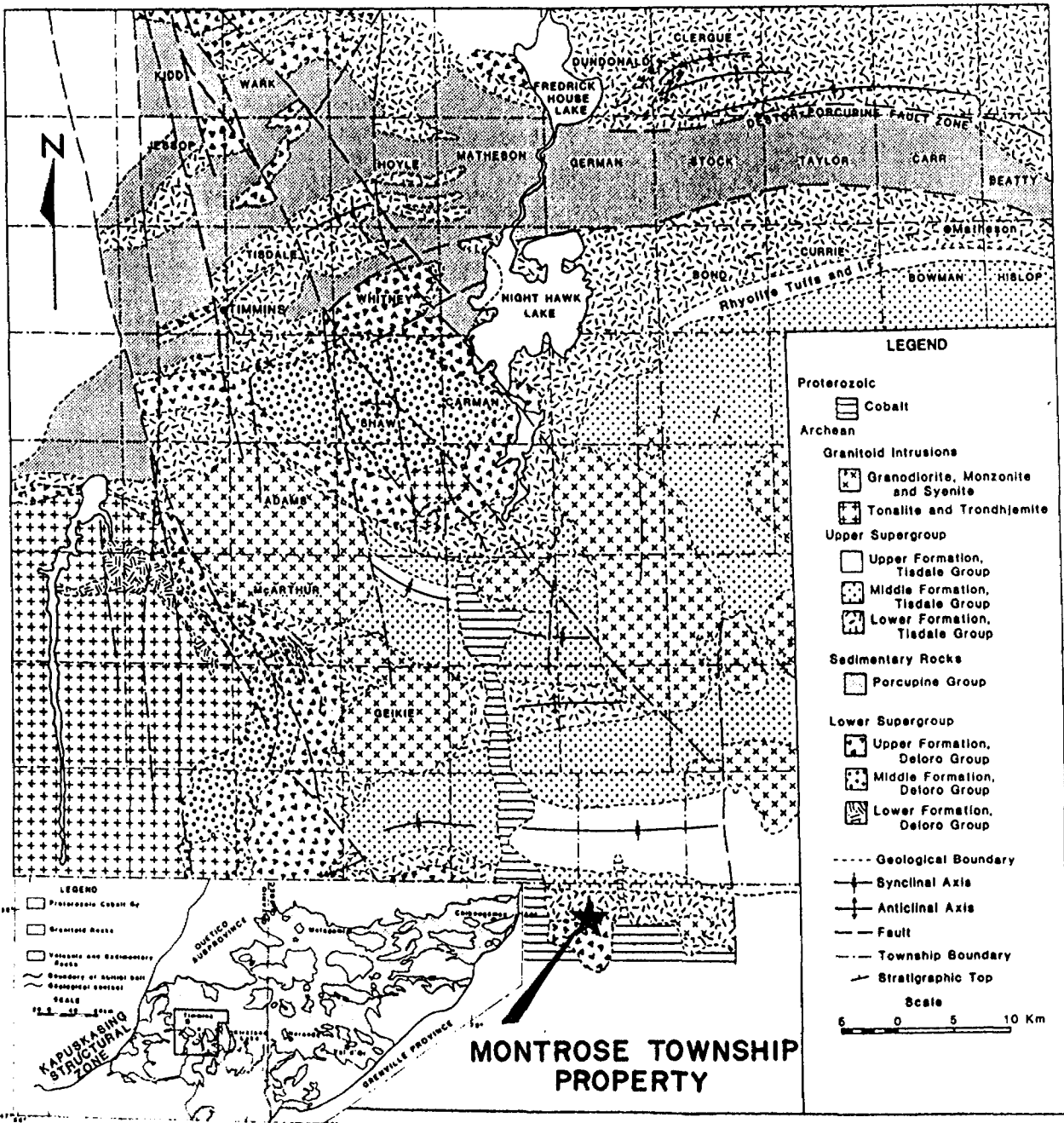


FIGURE 3
DISTRICT GEOLOGY OF THE TIMMINS AREA

2.3 Mineral Deposits

Metallic mineral deposits in the vicinity of the property consists of two main types: 1) gold bearing quartz veins and 2) stratiform volcanic massive sulphide deposits.

The Ashley Mine is located about 4 km. northeast of the Montrose Property. This deposit was a fissure quartz vein containing pyrite, galena, sphalerite, chalcopyrite, attaite, native gold and specularite. The deposit was hosted by mafic volcanic pillow lavas as were several other similar veins discovered in the same area.

Massive sulphide mineralization has been observed in Midlothian and Halliday townships to the south of Montrose and in Montrose to the north of the property on what was once the Golden Bounty M.C. Ltd. claims. Also stratigraphic massive sulphide has been discovered in Robertson Township to the northwest on a horizon which may be traceable to Montrose Township.

3.0 GEOPHYSICS

3.1 Airborne

Two airborne surveys have been flown over the claim group now held by Claimstaker Resources Ltd.

The Questor survey flows for the Ontario Department of Mines in 1975 used a Barringer Mark VI Input EM system and a AM - 104 Proton Precession Magnetometer. The Aerodat Limited survey was flown in 1984 for Canamax Resources Ltd. utilizing a Geometrics G 803 Proton Precession Magnetometer and an Aerodat/Geonics 3 Frequency EM System.

The ODM/Questor survey was oriented N-S roughly paralleling the stratigraphy and identified only one anomaly roughly coinciding with one identified by the Canamax Aerodat survey. The results of the Canamax survey are summarized on Figure 4 (after B. Hall 1990). The Cannamax anomaly 3 represented probably the best Airborne EM anomaly on the property.

Extracted for a report by A. Watts is the following:

Zone 2

Closely following a N-S topographic lineament, this weak but narrow quadrature EM response can be related to a quartz-sulphide rich fracture zone located on the old Leliever claims approximately 1 km. south of Canamax's claims. Weak Au values were apparently obtained from this quartz veined system sometime in the past and on the strength of this possibility, an otherwise impressive EM trend deserves a closer examination on the ground.

Zone 3

Located immediately north of Zone 2, this 2-line AEM feature

differs markedly in anomaly characteristics from Zone 2, and in fact from any other zone detected by an AEM survey.

The main difference is a reversal of the typical single-peak co-axial and double-peak coplanar responses obtained over the narrow, steeply dipping dyke-type source common in Precambrian greenstone belts. In the case of Zone 3 the exaggerated single peak response produced by the coplanar coil configuration suggest a near-horizontal sheet of limited down-dip extent, or else a thick (more than 50 m. wide) steeply dipping dyke source. The latter explanation appears to be the more likely of the two as the pyrite-rich quartz vein system on the Leliever showing to the south is described (Rickaby, H.C., 1932a) as being at least 100 feet wide.

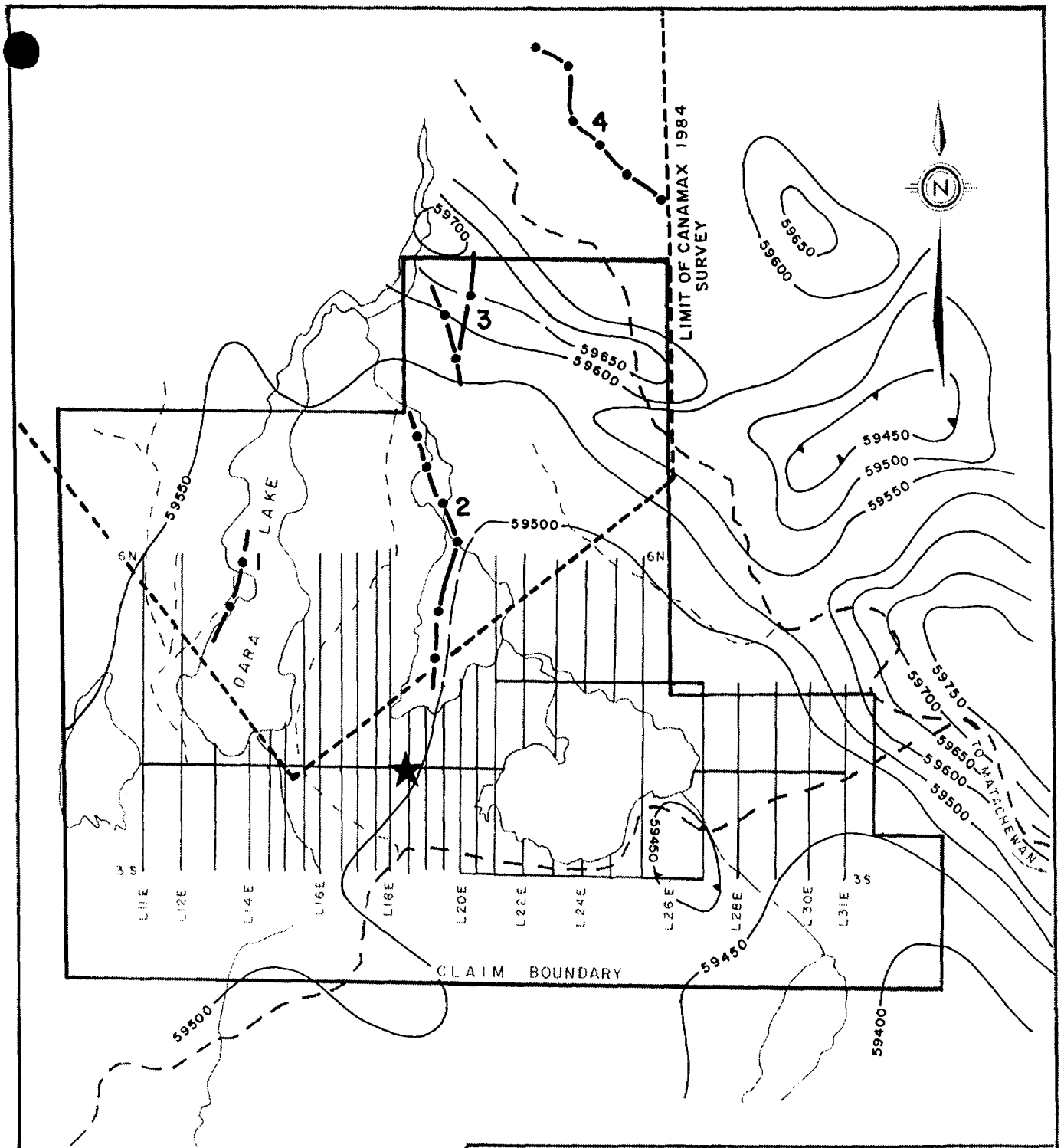
Though there is a possibility that this conductor was located and surface prospected in the wake of the 1975 Government sponsored Input Survey of the area, it is unlikely that the entire width of the conductor would have been sampled for possible Au association. It is therefore recommended that this intriguing geophysical expression be located on the ground with detailed HEM or VLF traverses, and then drill tested so as to evaluate the full width of the conductor.

It should be noted that the strike Zone 3 is quite different to any obtained from the conductors to the north, which are generally conformable to the NW trending stratigraphy.

The closing statement in the report for Canamax Resources Inc. (see Recommendations and Conclusions; Watts, A., 1984) again refers to Conductor #3. These comments are:

"Finally, the most isolated and interesting EM feature of the survey, Zone 3, should be detailed with ground geophysics and drill tested as this zone is felt to represent the best opportunity for intersecting both massive sulphide or Au-bearing mineralization on the property."

The conformable nature of the silicious exhalite as identified by Hall (1990), the clearly observable northerly trend of the volcanics and the obvious north-south strike of the airborne anomalies strongly suggest that the McIntyre Leliever showing may be the distal representation of a volcanogenic massive sulphide system.



- ★ LELIEVER SHOWING
- AIRBORNE EM CONDUCTOR
- 59450 — AIRBORNE MAGNETOMETER SURVEY (WATTS A., 1984)



AFTER B.V.H. - 90

CLAIMSTAKER RESOURCES LTD.	
McINTYRE-LELIEVER PROJECT	
MONTROSE TOWNSHIP	
MATACHEWAN, ONTARIO	NTS: 41P/15
GEOPHYSICAL SUMMARY	
DATE: SEPT. 1992	
FIGURE 4	

3.2.0 Ground Geophysics

3.2.1 General

On April 4th and 5th 1992, a horizontal loop EM survey was carried out on the Montrose township property of Claimstaker Resources Ltd. The survey was conducted by Timmins Geophysics of 1680 Latimer Crescent, Sudbury, Ontario, P3E 2V7. The operator was Mr. Douglas J. Londry, P. Eng. of the same address.

10.24 km. (6.4 miles) of line were cut for the survey during the two weeks preceding April 4th 1992 (see Pocket). Seventeen lines were cut, 400 feet apart, on an East-West orientation. Normally, readings were taken at 100 foot intervals, but in areas of EM response, stations at 500 foot centers were occupied. Two readings (two frequencies) were obtained for each of 248 stations.

Readings were taken over 8.4 km. (5.2 miles) of line.

3.2.2 Instrument and Operation of the Survey

An Apex Parametrics Max Min I-S horizontal Loop EM instrument was used employing a coil separation of 400 feet and utilizing frequencies of 444 and 1777 Hz. It is a two man continuously portable EM system. It is designed to measure both the vertical and horizontal in phase (IP) and quadrature phase (QP) components of the anomalous field for electrically conductive zones. The directions of the measured components are perpendicular and

parallel to the mean slope between the transmitting coil (Tx) and the receiving coil (Rx).

The instrument is operated as follows:

1. Mode switch is turned to Max (horizontal loop) or Min (minimum coupled). Of course in this survey , the switch was set to MAX.
2. The separation switch is turned to the appropriate distance position (400 feet in this survey).
3. The transmitter/operator at the other end of the cable has turned on his unit. The operator tells him the desired frequency (444 Hz or 1777 Hz in this survey) as well as the coil tilt, via the intercom.
4. The "on/off" is turned on, and the receiver is tilted to the slope, determined from secant chaining or from a direct inclinometer sighting.
5. The receiver operator reads the in phase and out of phase directly from the appropriate meters (as a percentage of the primary field strength).
6. The receiver operator instructs the transmitter operator to switch to the off position and both men advance to the next station in tandem and repeat the process.

3.2.3 Discussion

There a number of high positive in phase readings found particularly on the west side of the property. These readings are probably due to a "short cable effect" which occurs when the transmitter and receiver are located on opposite sides of a steep hill or valley. This effect is recognisable by the lack of a similar quadrature response.

A series of weak anomalies south of line 3600 North are believed to be caused by a poorly conductive source. They are largely anomalous only in the quadrature response. It could be argued that these anomalies represent a weakly mineralized pyritic chert, or even a surficial/overburden source.

On line 4000 North, the anomaly has a conductivity between 5 and 10 mhos and is undoubtedly a bedrock conductor. The width and poor definition of the anomaly suggests that more than one zone is present and that the dip is possibly shallow to the west. This anomaly extends from line 3600 North to 4800 North, but has its best expression on Line 4000 North.

4.0 RECOMMENDATION

A trench to bedrock should be dug across the anomaly on line 4000 North or alternatively, a drill hole should be collared at 45 dip and 90 azimuth at a point 250 East of the baseline 0 on line 4000 North. The hole should be drilled at least 500 feet.



A handwritten signature in black ink, appearing to be "R. D. Somerville", written over a horizontal line.

APPENDIX

STATEMENT OF QUALIFICATIONS

I, Richard D. Somerville, residing at 1052 Esquimalt Avenue, West Vancouver, British Columbia, V7T 1J8 certify that:

1. I am a practising Consulting Geologist with offices at Suite 103 - 255 West 1st Street, North Vancouver, British Columbia, V7M 3G8.
2. I am President of R. Somerville Geological and Mining Engineering Ltd.
3. I am a Registered Professional Engineer of the Provinces of Ontario and British Columbia.
4. I am a Fellow of the Geological Association of Canada and a member of the Canadian Institute of Mining & Metallurgy.
5. I am a graduate of Queen's University at Kingston, Ontario having received a B.Sc.(honours) degree majoring in Geology, and a B.A. degree majoring in physics and mathematics.
6. This exploration work was conducted under my direction, and I am satisfied that the work was conducted in a proper and professional manner.
7. I am a Director and Corporate Secretary of Claimstaker Resources Ltd.

North Vancouver, British Columbia

September 10, 1992



A handwritten signature in black ink, appearing to be "R. Somerville", written over a horizontal line.

R. Somerville, P.Eng.

REFERENCES

- Bright, E.G., 1970: Geology of Halliday and Midlothian Townships. Ontario Department of Mines, Geological Report 79, pp. 1-33.
- Burwash, E.M., 1896: Ontario Bureau of Mines, Vol. VI, pp. 167-84
- Class, L.G. and E.V. Sada, 1982: Bedrock and Overburden Geochemistry Investigations in the Midlothian Lake and Natal Lake Areas. Ontario Geological Survey, Study 24.
- Hall, Brian V., 1991: Geological Report on the McIntyre-Leliever Property, Montrose Township, Matachewan, Ontario. Cascade Pacific Explorations Ltd. Private company report.
- Jensen, L.S., 1986: Mineralization and Volcanic Stratigraphy in the Western part of the Abitibi Subprovince. In Volcanology and Mineral Deposits, Ontario Geological Survey, Miscellaneous Paper 129, pp. 69-87.
- Lovell, H.L., 1967: Geology of the Matachewan Area. Ontario Department of Mines, Geological Report 51, pp. 1-61.
- McCannell, J.D., 1974: Geological Report, Golden Bounty Company Limited, Montrose Township, Ontario. Private company report.
- Marshall, H.J., 1947: Geology of Midlothian Township. Ontario Department of Mines, 56th Annual Report, Part V, pp. 1-21.
- Nunes, P.D. and D.R. Pyke, 1980: Geochronology of the Abitibi Metavolcanic Belt, Timmins, Metachewan Area - Progress Report, Summary of Geochronology Studies, 1977-79, Ontario Geological Survey Miscellaneous Paper 92, pp. 34-8.
- ODM, 1975: Airborne Electromagnetic and Total Intensity Magnetic Survey, Montrose Township, District of Timiskaming by Questor Surveys Limited, for the Ontario Division of Mines, Prelim. Map 1020.
- Rickaby, H.C., 1932a: Bannockburn Gold Area. Ontario Department of Mines, 41st Annual Report, Part II, pp. 1-24.
- , 1932b: Bannockburn Gold Area, District of Timiskaming, Ontario. Ontario Department of Mines Geological Map 41a.
- Watts, A., 1984: Report on an Airborne Electromagnetic and Magnetic Survey, Hincks Township, N. Ontario. Canamax Resources Inc., Price Project (035-15). Private company report.



41P15NW0201 2.14751 MONTROSE

900

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Branch
Geoscience Approvals Section
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

November 23, 1992

Our File: 2.14751
Transaction #W9280.00190

Mining Recorder
Ministry of Northern Development
and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir/Madam:

Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS
L1170556 ET AL. IN MONTROSE TOWNSHIP

The assessment work credits for the Geophysical Survey filed under Sections 14 of the Mining Act Regulations have been approved.

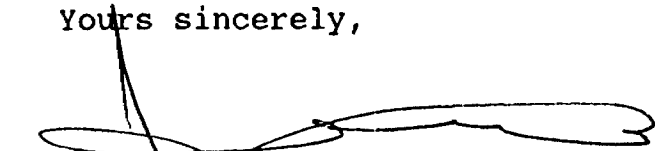
Note that section 11(3)(c) of the Mining Act Regulations requires a north direction indicating whether the bearing is astronomic or magnetic.

In this instance the work report has been approved without revision. Please ensure that you and your consultant are conversant with the Regulations pertaining to future assessment work.

The approval date is November 23, 1992.

Please indicate this approval on your records.

Yours sincerely,


J.A. McIntosh
Director, Mining Lands Branch
Mines and Minerals Division

TAA/jl
Enclosures:

cc: Assessment Files Office
Toronto, Ontario

Resident Geologist
Kirkland Lake, Ontario

Report of Work Conducted After Recording Claim
 Mining Act

Transaction Number
W9280.00190

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

2.14751

- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) Brian V. Hall		Client No.
Address RR. # 1 L-9 Bowen Island B.C. V0N 1G0		Telephone No. (604) 986-5766
Mining Division LARDER LAKE	Township/Area MONTROSE	M or G Plan No.
Dates Work Performed	From: March 20 1992	To: April 5 1992

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	Horizontal loop EM Survey
Physical Work, Including Drilling	Drilling
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

RECEIVED
OCT 09 1992
MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs \$ **5982.43**

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Timmins Geophysics Ltd	1680 Latimer Crescent Sudbury Ont. P3E2V7
Author R.D. Somerville P.Eng.	Stc 630 - 171 W. Esplanade North Vancouver. B.C. V7M3K9 Ph (604) - 986 - 5766

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date September 10/92	Recorded Holder or Agent (Signature) R.D. Somerville
--	--------------------------------	--

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying R.D. SOMERVILLE, Stc 630 - 171 W. Esplanade, Nc. Vancouver B.C. V7M3K9		
Telephone No. (604) 986-5766	Date September 10, 1992	Certified By (Signature) R.D. Somerville P. Eng

For Office Use Only

Total Value Cr. Recorded \$ 5983.	Date Recorded Sept. 16/92	Mining Recorder 	Received Stamp RECEIVED LARDER LAKE MINING DIVISION
	Deemed Approval Date Dec. 15/92	Date Approved	SEP 16 1992
Date Notice to Amendments Sent			

TIME **01:39 AM**

Ministry of Northern Development and Mines
 Ministère du Développement du Nord et des mines

Statement of Costs for Assessment Credit

Transaction No./N° de transaction
W9280.00190

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 870-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 870-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour <i>Drafting</i> Main-d'oeuvre	72.00	
	Field Supervision Supervision sur le terrain	300.00	372.00
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type <i>Line cutting</i>	2915.53	
	<i>Geophysics</i>	1251.90	
	<i>Report</i>	1200.00	5367.43
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type <i>Trailer & Snowmobile</i>	200.00	
Total des coûts directs			5939.43

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
 Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type <i>Vehicle</i>	65.00	
Sub Total of Indirect Costs Total partiel des coûts indirects			65.00
Food and Lodging Nourriture et hébergement	<i>2 days @ \$75</i>	150.00	150.00
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			215.00
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excedant pas 20 % des coûts directs)			43.00
Total Allowable and Allowable Total admissible et admissible			5982.43

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

RECEIVED

Filing Discounts

OCT 11 1992

Remises pour dépôt

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.

Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.

2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Total Value of Assessment Credit	Total Assessment Claimed
x 0.50 =	

Valeur totale du crédit d'évaluation	Evaluation totale demandée
x 0.50 =	

Certification Verifying Statement of Costs

Attestation de l'état des coûts

I hereby certify that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown in the accompanying Report of Work form.

J'atteste par la présente que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

at as Agent I am authorized (Recorded Holder, Agent, Position in Company)

Et qu'à titre de LARDER LAKE (Titulaire enregistré, représentant, poste ou fonction)

make this certification

à faire cette attestation. **SEP 16 1992**
 Signature Date
 TIME 8:39 A.M.

RECEIVED
OCT 09 1989

OBJECT
RATIONS

Hincks Twp.

Bannockburn Twp.

Midlothian Twp.

LEGEND

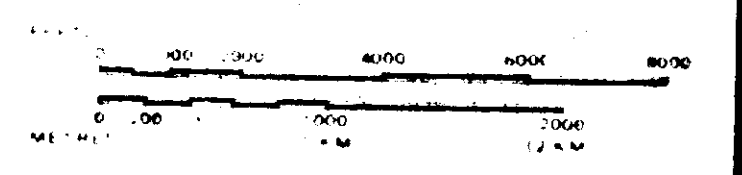
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, BASE LINES ETC
- LOTS, MINING CLAIMS PARCELS ETC
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE P. AN. RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKELG
- MINES
- TRAVERSE MINING

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	○
LEASE SURFACE & MINING RIGHTS	○
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	○
LICENCE OF OCCUPATION	○
ORDER IN COUNCIL	OC
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 180, SEC. 63 & 65.

SCALE 1 INCH = 40 CHAINS



TOWNSHIP
MONTROSE
M.N.R. ADMINISTRATIVE DISTRICT
KIRKLAND LAKE
MINING DIVISION
LARDER LAKE
LAND TITLES / REGISTRY DIVISION
TIMISKAMING

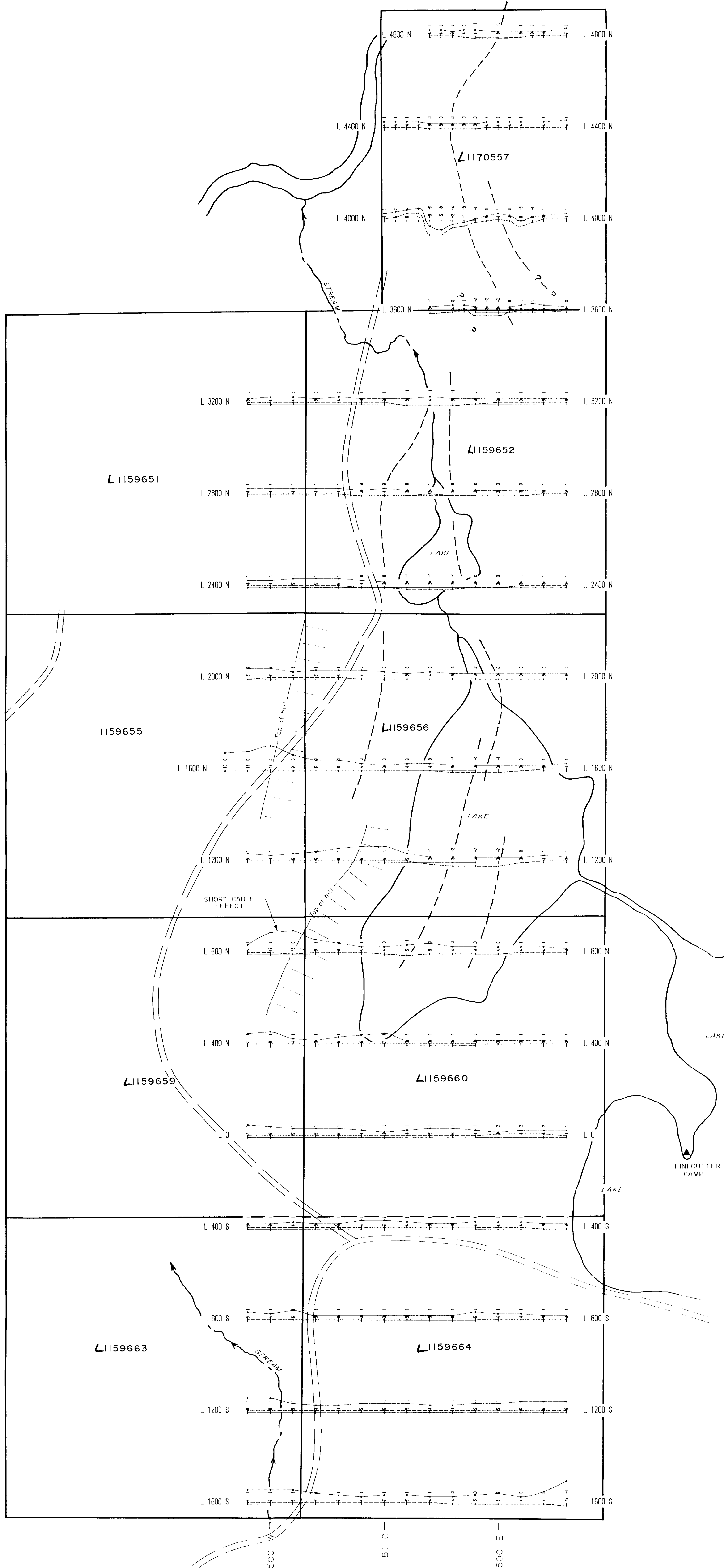
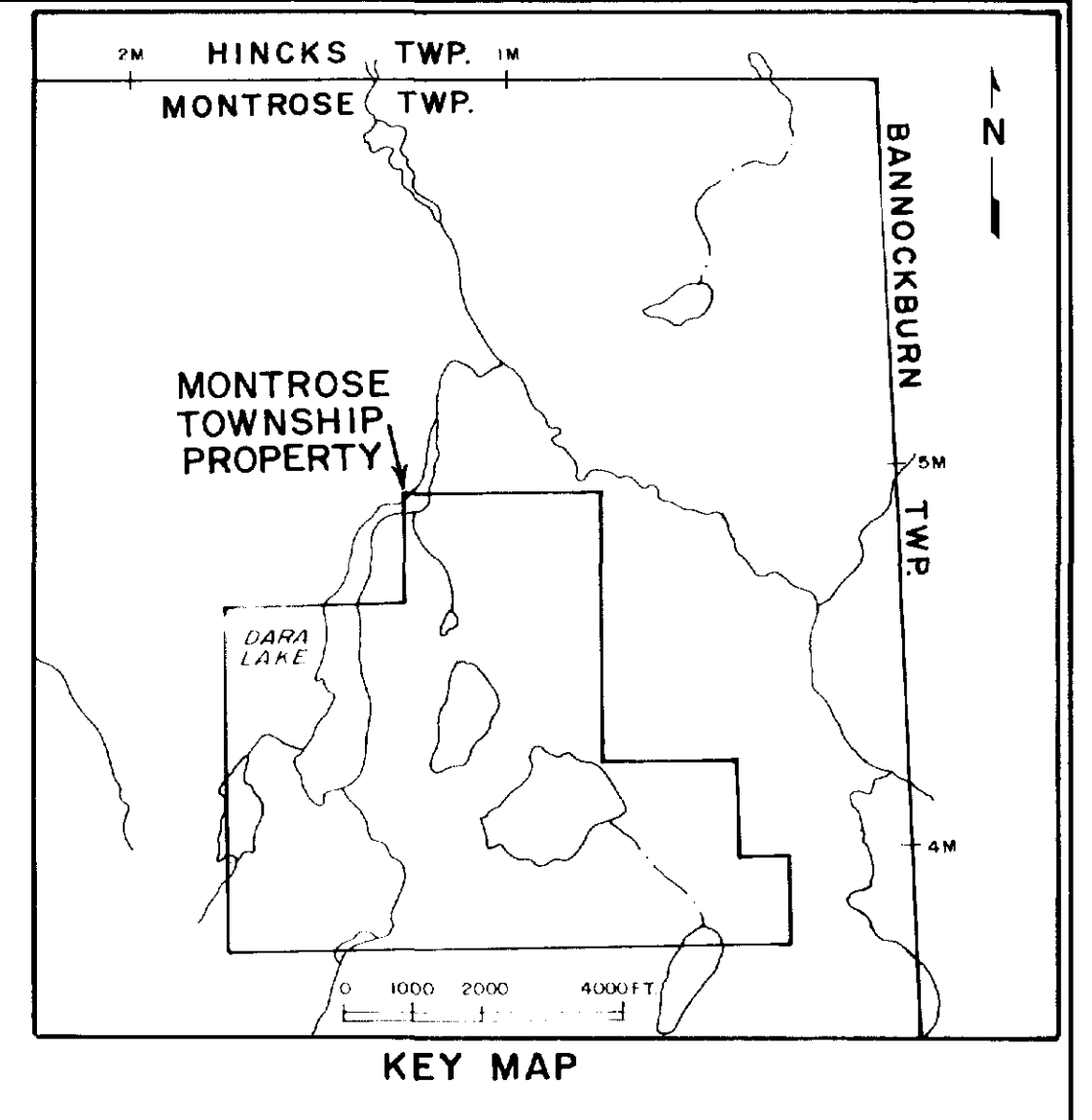
DATE OF ISSUE
SEP 16 1982
LARDER LAKE
MINING RECORDER'S OFFICE

MINISTRY OF NORTHERN
DEVELOPMENT AND MINES

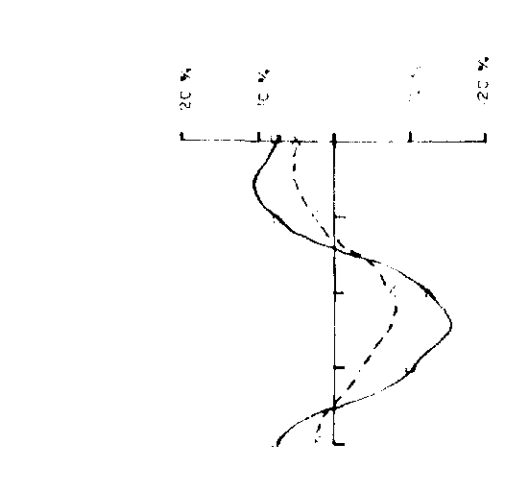
DATE _____ PLAN NO. _____



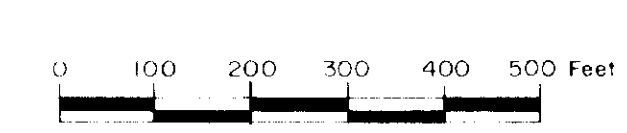
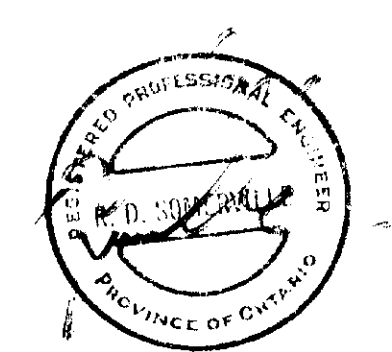
200



Instrument: Apex Parametrics MaxMin 1.1
 Frequency: 444 Hz
 Cable Separation: 400 Feet
 Profile Scale: 1 cm = 1.0%



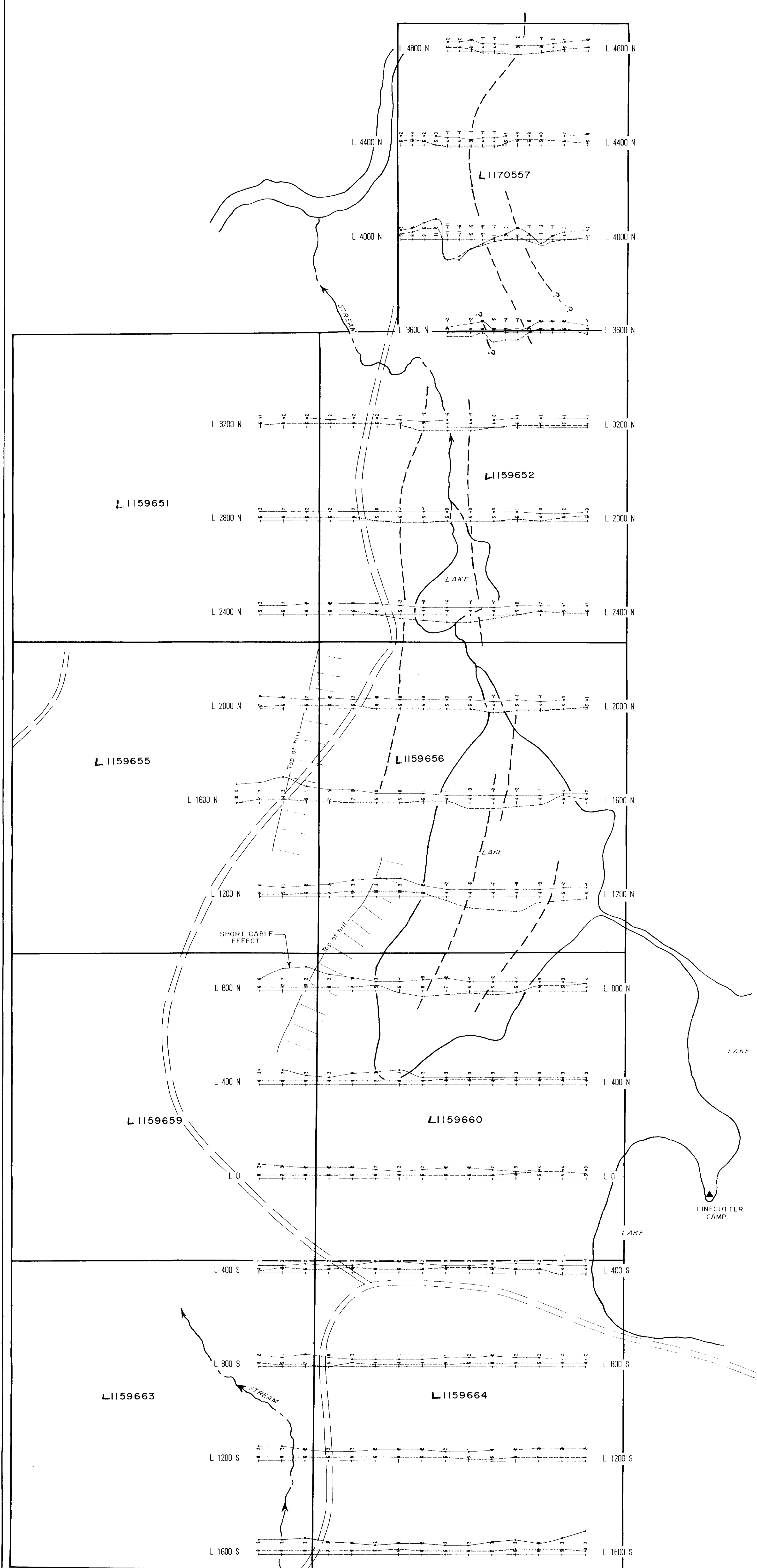
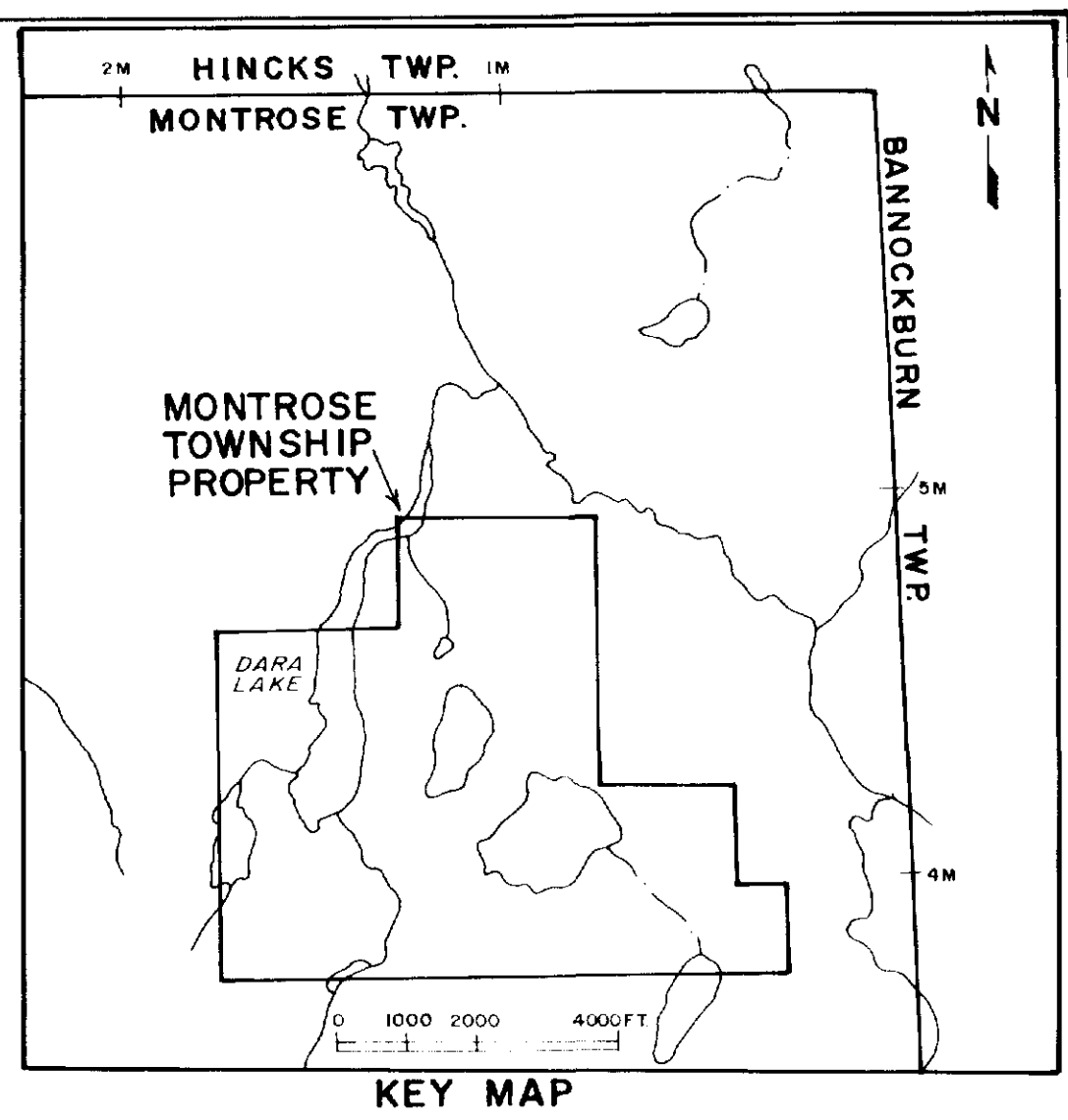
In-phase
 Quadrature
 Axis of Anomaly
 Access Road



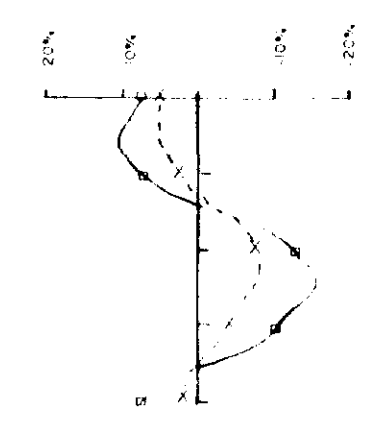
CLAIMSTAKER RESOURCES LTD	
HLEM SURVEY	
MONTROSE TOWNSHIP	
SCALE: 1 IN = 200 FEET	DATE: APRIL 1992
DRAWN BY: MCVETHE	MAP: 1
WORK BY:	TIMMINS GEOPHYSICS LTD.

To accompany a report by R. Somerville, P. Eng. dated Sept 10, 1992



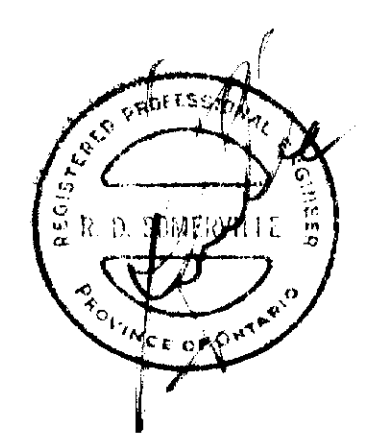
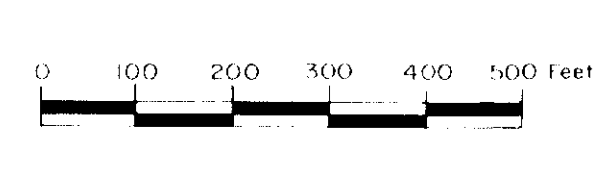


Instrument: Apex Parametrics ModM 1.5
 Frequency: 1277 Hz
 Coil Separation: 400 Feet
 Line Spacing: 100 - 10%



In phase: ———
 Quadrature: - - - -
 Axis of Anomaly: - - - -
 Access Road: - - - -

CLAIMSTAKER RESOURCES LTD	
HLEM SURVEY	
MONTROSE TOWNSHIP	
SHEET: 144-248-111	DATE: APR 89
FILE NUMBER	MAP 2
WORK BY:	Timmins Geophysics Ltd.



To accompany a report by R. Somerville, P. Eng.
 dated Sept 10, 1992

