



52H04NW2004 2.19449 TIB LAKE

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HOME VENTURES LIMITED

Report on

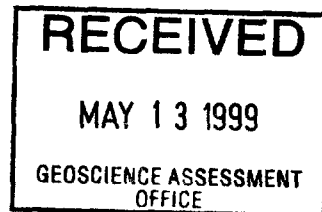
1999

Ground Magnetometer Survey

BUCK LAKE PROPERTY

Lac Des Iles Area,
Northwestern Ontario
N.T.S. 52H/04NW

2.19449



May, 1999
Thunder Bay, ON

D.B. McKay, M.Sc.
Consulting Geologist
Clark-Eveleigh Consulting

SUMMARY

Clark-Eveleigh Consulting, of Thunder Bay, Ontario, was contracted by Home Ventures Ltd. of Vancouver, British Columbia to conduct a ground magnetometer survey on the Buck Lake Property located in the Lac des Iles area, northwestern Ontario. This report provides background information regarding the Buck Lake Property, presents the results of the magnetometer survey and provides recommendations regarding future exploration.

The magnetometer survey was conducted on April 12, 1999 by B. MacKay of Vytal Geophysical Services of Thunder Bay, Ontario. The project was supervised by A. Eveleigh of Clark-Eveleigh Consulting. Approximately 7.25 line km were surveyed. A small portion of the 1999 grid could not be surveyed due to the presence of open water on Buck Lake.

The magnetometer survey was conducted utilizing a GEM Systems Inc. model GSM-19 magnetometer/gradiometer. A base station was used to correct the data for diurnal variation. Magnetic data were collected at 12.5 m intervals along the wing lines of the 1999 grid. No data were collected along the base line nor the tie lines.

A prominent, northwesterly-trending, amoeboid-shaped magnetic anomaly high overlies portions of claims 1173921, 1173922 and 1173925. The magnetic values comprising this anomaly range from 59,600 to 61,565 nT. Background values are generally less than 58,900 nT. The location of this anomaly corresponds with the reported location of the Buck Lake Intrusion and with the main PGE showing present on the property. This magnetic anomaly is open to the southeast and probably extends onto the portions of claims 1173921 and 1195849 which were not covered during the present survey.

The Buck Lake Property warrants further exploration in order to better determine the nature and extent of the Cu-Ni-PGM mineralization present.

The exploration program originally proposed for the Buck Lake Property (McKay 1998) should be completed. Towards this end, the grid and magnetometer survey should be extended to cover the entire property (approximately 4 line km remain to be cut and surveyed), followed by prospecting, sampling, geological mapping and diamond drilling of prospective targets. A ground electromagnetic survey should also be considered as it would help define the location of conductive sulphide mineralization if present.



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1.0 INTRODUCTION

Clark-Eveleigh Consulting, of Thunder Bay, Ontario, was contracted by Home Ventures Ltd. of Vancouver, British Columbia to conduct a ground magnetometer survey on the Buck Lake Property located in the Lac des Iles area, northwestern Ontario. This report provides background information regarding the Buck Lake Property, presents the results of the magnetometer survey and provides recommendations regarding future exploration.

1.1 LOCATION AND ACCESS

The Buck Lake Property is located in the Thunder Bay Mining Division approximately 100 km northwest of Thunder Bay, Ontario and 27 km west of the Lac des Iles Palladium Mine (Figure 1). The property is located within N.T.S. block 52H/4 NW and is centered around latitude 49 degrees 9 minutes 35 seconds north and longitude 89 degrees 59 minutes 10 seconds west (i.e.: U.T.M. Zone 16, 5449273mN and 282298mE).

The property is best accessed using a four wheel drive motor vehicle followed by travel in boat. From Thunder Bay, proceed west along Trans-Canada Highway 17 for approximately 110 km to the Avenor Forest Products access road CP234 (known locally as the Dog River Road). Proceed northerly along road CP234 for approximately 38 km to the Buck Lake Road. Proceed westerly along the Buck Lake Road for approximately 4 km to a water control dam on the Dog River. Proceed, via boat, westerly along the Dog River for approximately 4 km to the vicinity of the property.

1.2 CLAIMS

The Buck Lake Property comprises 7 contiguous, unpatented mining claims (8 claim units totaling 128 hectares) located within the Thunder Bay Mining Division (Figure 2). The claims are currently recorded in good standing on the Tib Lake claim sheet (G2660). The claims and their current status are summarized below in Table 1. Claim abstracts and the portion of the Tib Lake claim sheet which covers the Buck Lake Property are given in Appendix A.

Home Ventures Ltd. has entered into an option agreement with prospectors W.J. Richmond (recorded holder of the claims) and W.D. Morehouse of Thunder Bay, Ontario to earn an 100% interest in the Buck Lake Property.

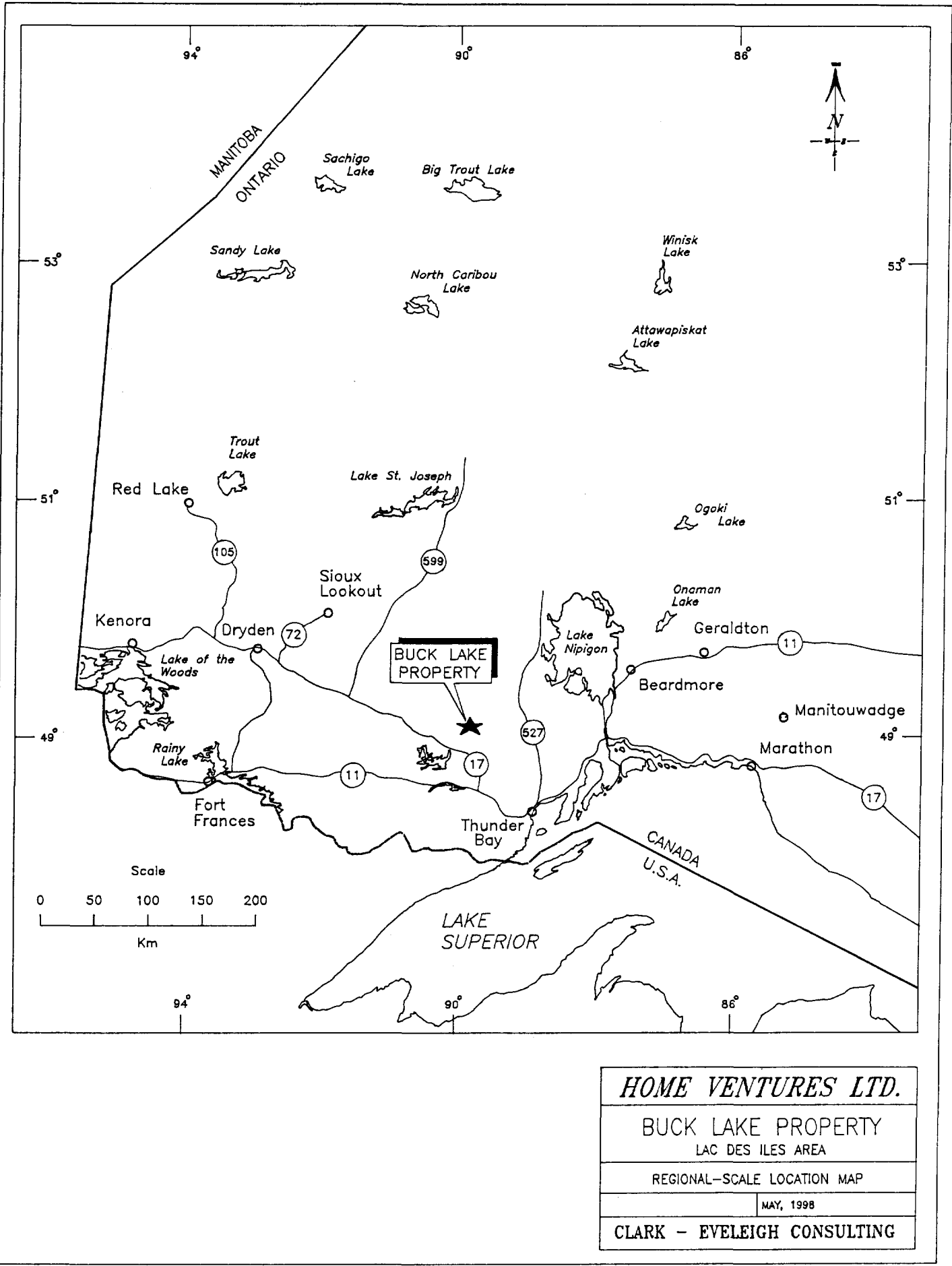


Figure 1. Regional-scale location map.

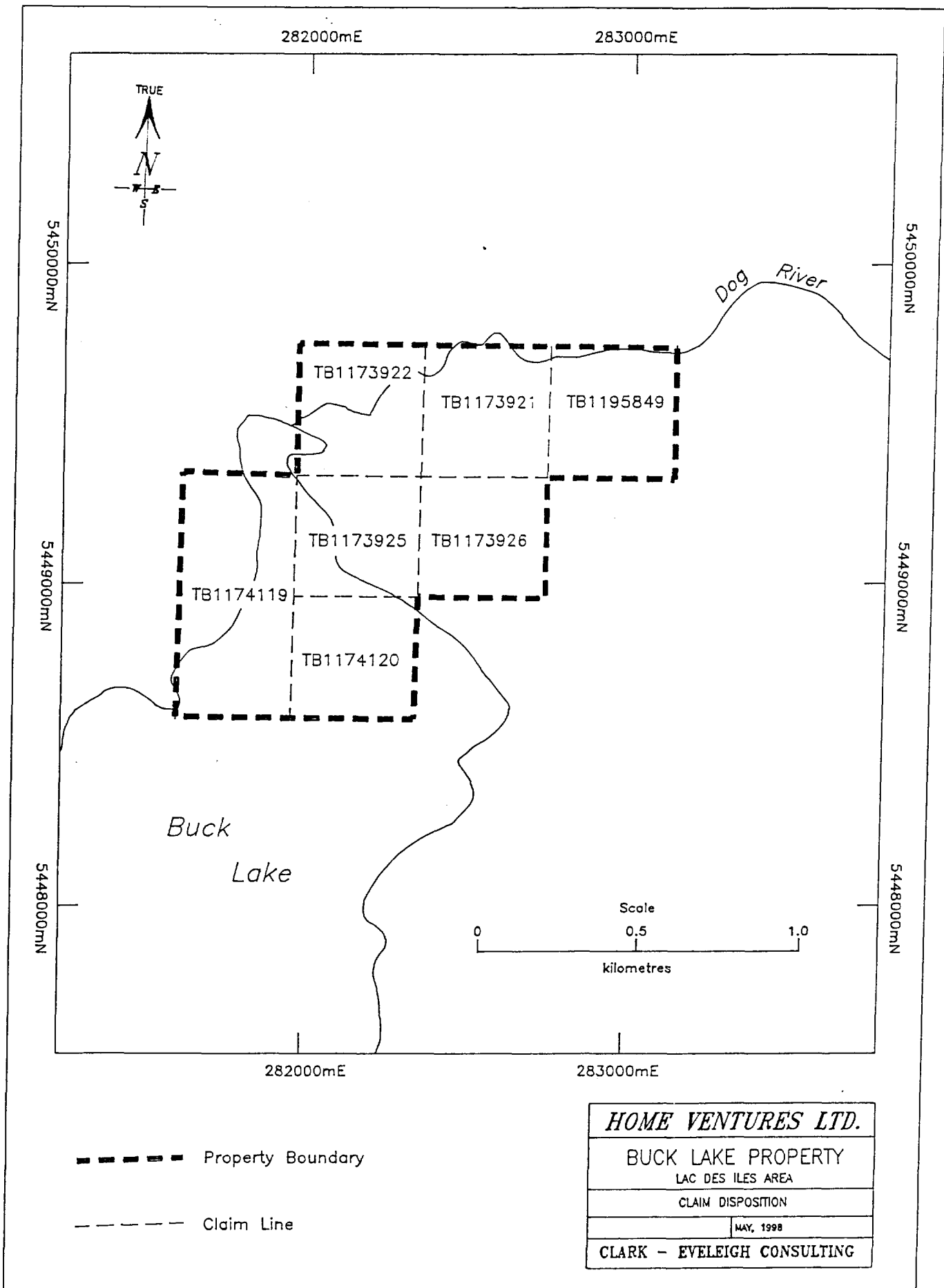


Figure 2. Claim disposition.

Table 1. Claims and current status.

CLAIM NUMBER	SIZE	DUE DATE	WORK REQUIRED
TB1173921	1 unit (16 ha)	June 10, 2002	\$400
TB1173922	1 unit (16 ha)	June 10, 2000	\$400
TB1173925	1 unit (16 ha)	June 29, 2000	\$400
TB1173926	1 unit (16 ha)	June 29, 2000	\$400
TB1174119	2 units (32 ha)	May 31, 1999	\$800
TB1174120	1 unit (16 ha)	May 31, 1999	\$400
TB1195849	1 unit (16 ha)	August 27, 2000	\$400
TOTALS	8 units (128 ha)		\$3200

Much of the land surrounding the Buck Lake Property has recently been staked on behalf of Lac des Iles Mines Ltd. (North American Palladium Ltd.).

1.3 PREVIOUS EXPLORATION

The Lac des Iles area has been a focus of exploration for copper-nickel sulphide mineralization in ultramafic and mafic intrusive rocks since the late 1950's. More recently, the focus has shifted to platinum group element (PGE) mineralization. Summaries of the exploration conducted in the Lac des Iles area are provided by Sutcliffe (1986), Sutcliffe and Sweeny (1985) and Smith and Sutcliffe (1986).

The presence of mafic to ultramafic intrusive rocks in the vicinity of Buck Lake was not reported until 1986. As a consequence, very little mineral exploration has been conducted in the immediate vicinity of the Buck Lake Property. Exploration data archived at the Ontario Ministry of Northern Development and Mines' District Geologist's office in

Thunder Bay indicates the following exploration history:

- 1962: The Ontario Department of Mines, working in conjunction with the Geological Survey of Canada, conducted an aeromagnetic survey of the area surrounding and including the Buck Lake Property (ODM-GSC 1962). A small, poorly-defined magnetic anomaly was detected in the vicinity of Buck Lake.
- 1986: The area surrounding and including the Buck Lake Property was examined, geologically mapped (at 1:50,000 scale) and sampled by R.H. Sutcliffe for the Ontario Geological Survey (Sutcliffe 1986). Sutcliffe noted the presence of sulphide-bearing mafic and ultramafic intrusive rocks along the north shore of Buck Lake. Samples collected at this time however, failed to indicate the presence of anomalous amounts of platinum group elements.
- 1986-1988: The area surrounding and including the Buck Lake Property was staked and recorded in the name of H. Watts, but no work was recorded and the claims were canceled in 1988.
- 1992-1997: The Buck Lake Property was staked and recorded in the name of W. Richmond who, along with fellow prospectors R. Arnott, W. Morehouse and R. Morehouse, conducted several OPAP-funded exploration programs comprising prospecting, sampling, limited amounts of hand stripping and trenching and "packsack" diamond drilling (8 holes totaling 9.0 m) (Richmond and Morehouse 1992a, 1992b, 1994a, 1994b, 1997). This work resulted in the discovery of Pt-Pd-Cu-Ni mineralization on claim TB1173921. Selected grab samples collected from the property by W. Richmond and W. Morehouse have returned assay values of up to 0.25% Cu, 0.33% Ni, 316 ppb Au, 2933 ppb Pd and 2030 ppb Pt (Richmond and Morehouse 1992b, 1997). Drill core samples collected from the property by W. Richmond and W. Morehouse have returned assay values of up to 0.57% Cu, 0.52% Ni, 276 ppb Au, 1900 ppb Pd and 1350 ppb Pt over 0.10 m (Richmond and Morehouse 1997).

In the fall of 1992 the Buck Lake Property was examined and sampled by geologist K.P. Thomson who prepared a report describing his examination (Thomson 1992).

1.4 REGIONAL GEOLOGY AND MINERALIZATION

The Buck Lake Property is located within the Wabigoon Subprovince of the Superior Structural Province and is underlain primarily by Archean mafic and ultramafic intrusive rocks comprising the Buck Lake Intrusion (Figure 3). Several similar mafic to ultramafic intrusions, several of which also contain Cu, Ni and PGE mineralization, occur in the surrounding area.

Sutcliffe (1986) describes the general geology of this area as follows:

Archean mafic intrusions, in the Lac des Iles area, form part of an east-northeast-trending linear zone of mafic plutons which extends from Atikokan to Lake Nipigon. This zone parallels the boundary between the Wabigoon and Quetico Subprovinces.

In a more detailed sense, mafic to ultramafic intrusions in the Lac des Iles area form a circular structure approximately 30 km in diameter. The intrusions, which together have broad lithologic and metallogenic similarities, are late tectonic, and intrude granitoid host rocks. The intrusions are tholeiitic in affinity, and contain phases ranging from ultramafic peridotitic and pyroxenitic cumulates to magnesian gabbro and iron-rich gabbro. Hybrid marginal zones, consisting of hornblende intruded by hornblende diorite, are common to many of the intrusions, and are interpreted to be due to contamination of mafic magma by a granitoid component. Most of the intrusions have well preserved mineralogy and are not significantly deformed or altered.

Granitoid rocks, into which these intrusions were emplaced, consist of predominantly gneissic tonalite. The mafic intrusions are interpreted, on the basis of field relations, to be comagmatic with a suite of hornblende tonalite to biotite granite which occupies the centre of the circular configuration. Compositions of some of the younger granitoids reflect magma mixing between granitic melt and mafic magma.

The Archean rocks in the area are intruded by diabase sheets and dikes of late Proterozoic age. The diabase is typically medium-grained, however, aphanitic, polygonally fractured chill margins are locally observed. Pegmatitic patches are developed toward the top of the diabase sheets, while ophitic textures characterize the lower parts of the sheets. A north-trending diabase dike was traced for several kilometres in the western part of the area, in the vicinity of the Dog River.

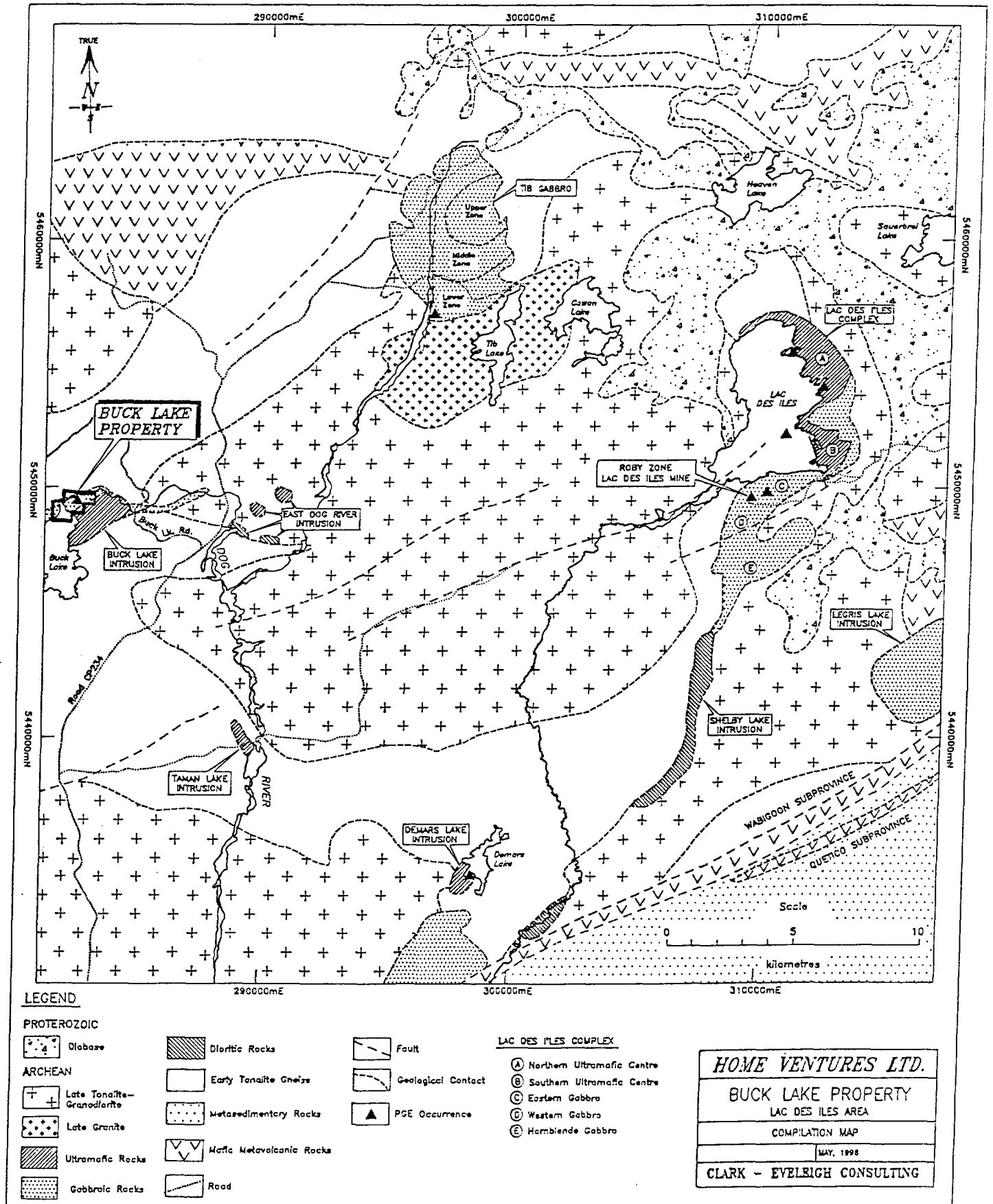


Figure 3. Generalized geological sketch map of the Lac des Iles area (geology modified from Sutcliffe 1986).

To date, sulphide and PGM mineralization have been discovered in the Lac des Iles Complex, the Tib Gabbro, the Demars Lake Intrusion and the Buck Lake Intrusion (Figure 3). The Lac des Iles Mine (owned by North American Palladium Ltd.) is located approximately 27 km east of the Buck Lake Property. This mine currently produces approximately 50,000 ounces of palladium, 4,000 ounces of platinum, 3,600 ounces of gold, 450 tons of copper and 350 tons of nickel annually. Current reserves are estimated to be 22.6 million tons averaging 0.19 ounces per ton combined platinum group metals and 0.02 ounce per ton gold (MNDM 1998).

1.5 PROPERTY GEOLOGY AND MINERALIZATION

Sutcliffe (1986) describes the Buck Lake Intrusion as follows:

The Buck Lake Intrusion is a previously unrecognized mafic to ultramafic intrusion outcropping on the northern side of Buck Lake. The Intrusion is elliptical in plan with an east-west elongation and a cross-sectional area of approximately 5 square kilometres. A dike-like body, striking at 70 degrees, extends east from the intrusion and consists of medium-grained, fresh hornblende gabbro. The main intrusion consists of phases ranging from hornblende gabbro and gabbro-norite, to clinopyroxenite and hornblende clinopyroxenite. The hornblende gabbro is the dominant lithology, and is typically medium-grained, with local pegmatoidal patches containing biotite and quartz. Ultramafic rocks in the intrusion contain variable proportions of hornblende and clinopyroxene. Breccia zones, in which leucocratic phases intrude melanocratic phases, ranging in composition from gabbro to pyroxenite, are common in the intrusion, especially along the northwestern shore of Buck Lake. These textures are similar to those observed on the margin of the Lac des Iles Complex. Minor chalcopyrite, pyrite and pyrrhotite mineralization were observed in the Buck Lake Intrusion, but, to date, no anomalous PGE concentrations have been detected by assays.

Prospecting work conducted on the Buck Lake Property subsequent to the discovery of the Buck Lake Intrusion has resulted in the discovery of significant amounts of Cu, Ni and PGM mineralization (Richmond and Morehouse 1992a, 1992b, 1994a, 1994b, 1997). Sulphides, primarily pyrite with lesser amounts of pyrrhotite, chalcopyrite and pentlandite, locally comprise up to 7% of the gabbroic rocks present on the property (Thomson 1992). Grab samples collected from the property by W.J. Richmond have returned assay values of up to 862 ppb (0.025 o.p.t.) Au, 1.8 ppm (0.052 o.p.t.) Ag, 2530 ppm (0.25%) Cu, 3330 ppm (0.33%) Ni, 2030 ppb (0.059 o.p.t.) Pt and 2933 ppb (0.086

o.p.t.) Pd (Richmond 1992a, 1992b, 1994a, 1994b; Thomson 1992). Drill core samples collected from the property by W. Richmond and W. Morehouse have returned assay values of up to 0.57% Cu, 0.52% Ni, 276 ppb Au, 1900 ppb Pd and 1350 ppb Pt over 0.10 m (Richmond and Morehouse 1997). The highest assay values have all been returned from samples collected from claim TB1173921 in the vicinity of what is referred to in the literature as the "PGM Occurrence" (Richmond 1992a, 1992b, 1994a, 1994b; Thomson 1992).

Examination of diamond drill core collected from the PGM occurrence by prospectors W. Morehouse and W. Richmond indicates that the occurrence is underlain by coarse- to very coarse-grained, sulphide-bearing (locally containing up to 3 to 5% pyrrhotite, pyrite and chalcopyrite) gabbroic rocks that are mineralogically and texturally similar to the "sulphide-rich" ore currently being mined at the Lac des Iles Mine.

2.0 GROUND MAGNETOMETER SURVEY

2.1 INTRODUCTION

In response to the encouraging prospecting results obtained to date, and after a review of all available information, a two-phase exploration program comprising line cutting, a ground magnetometer survey, prospecting, sampling, geological mapping and diamond drilling was proposed for the Buck Lake Property (McKay 1998).

This exploration program commenced in early April of 1999 immediately prior to spring break-up. Emphasis was placed on establishing that portion of the grid which lay over water and on completing the magnetometer survey in that area. A small portion of the grid could not be surveyed with the magnetometer due to the presence of open water. At the time of writing (May 3, 1999), approximately 70% of the proposed exploration grid and magnetometer survey had been completed. The remainder of the exploration program will be conducted during the summer of 1999.

The line cutting was conducted on April 10th and 11th, 1999 by Skyline Mineral Exploration of Thunder Bay, Ontario. Approximately 9.7 km of the proposed grid was established during this period.

The magnetometer survey was conducted on April 12, 1999 by Brent MacKay of Vytal Geophysical Services of Thunder Bay, Ontario. Approximately 7.25 line km of the grid was surveyed.

2.2 GRID

The 1999 exploration grid established on the property is shown in Figure 4. The base line of the grid is oriented at 045° azimuth, the wing lines at 135° azimuth. The wing lines are spaced every 100 m along the base line and have been picketed at 25 m intervals. The base line coincides with a flagged control line established on the property several years ago by the property vendors.

2.3 SURVEY PARAMETERS

The magnetometer survey was conducted utilizing a GEM Systems Inc. model GSM-19 magnetometer/gradiometer. A base station was used to correct the data for diurnal variation. Magnetic data were collected at 12.5 m intervals along the wing lines of the 1999 grid. No data were collected along the base line nor the tie lines.

A description of the GSM-19 magnetometer/gradiometer, including the instrument specifications, is given in Appendix B.

2.4 RESULTS

The results of the magnetometer survey are presented in maps 1 and 2 which show the contoured and un-contoured magnetic data, respectively. For plotting purposes, a magnetic datum of 58,500 nT was utilized.

A prominent, northwesterly-trending, amoeboid-shaped magnetic anomaly high overlies portions of claims 1173921, 1173922 and 1173925. The magnetic values comprising this anomaly range from 59,600 to 61,565 nT. Background values are generally less than 58,900 nT. The location of this anomaly corresponds with the reported location of the Buck Lake Intrusion and with the main PGE showing present on the property. This magnetic anomaly is open to the southeast and probably extends onto the portions of claims 1173921 and 1195849 which were not covered during the present survey.

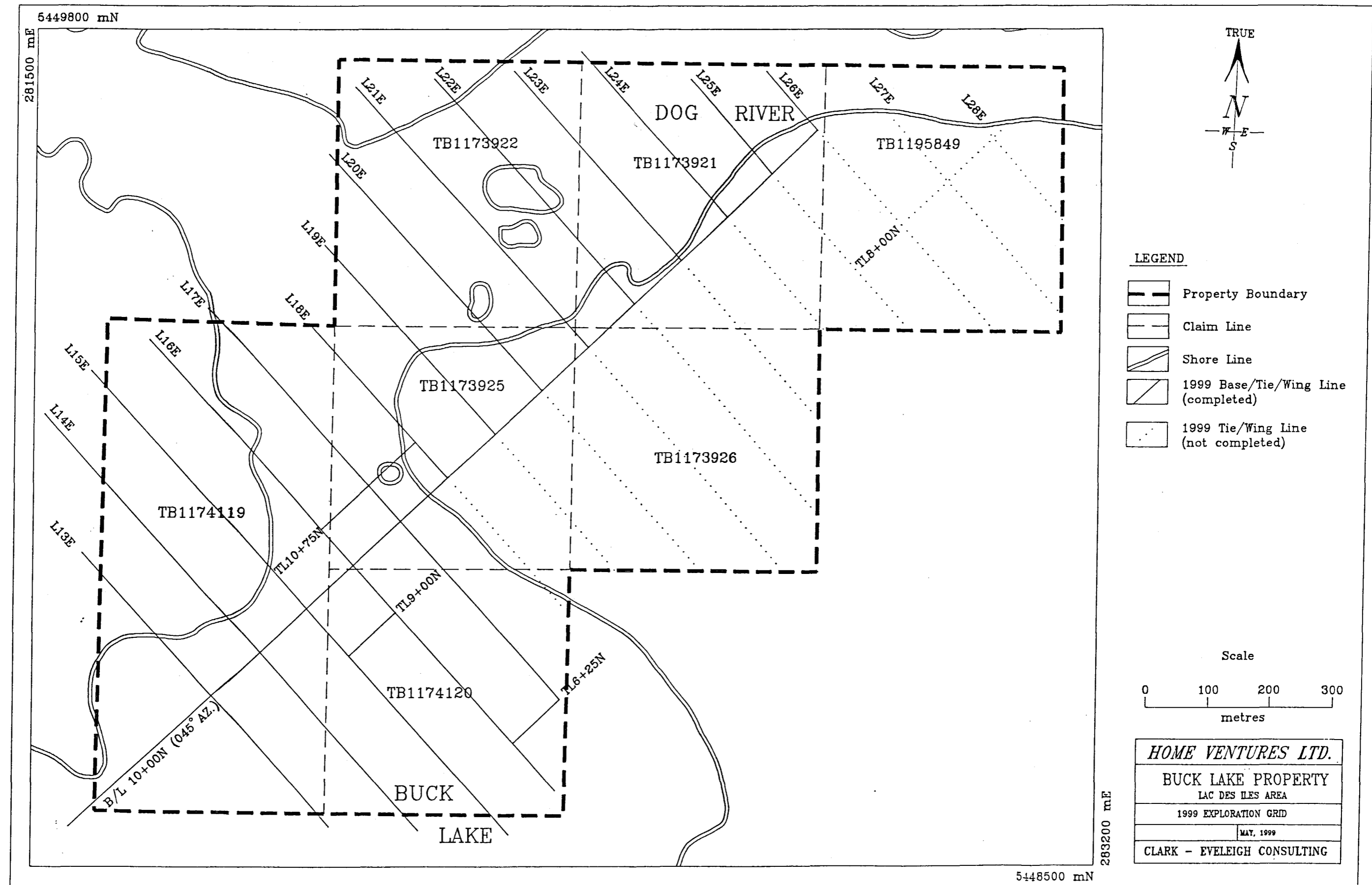


Figure 4. 1999 exploration grid.

3.0 CONCLUSIONS

1. The Buck Lake Property is underlain, at least in part, by Cu-Ni-PGE-bearing mafic to ultramafic intrusive rocks of the Buck Lake Intrusion.
2. The Buck Lake Intrusion is mineralogically and texturally similar to the Lac des Iles Complex (located approximately 27 km to the east) which hosts the Lac des Iles Mine (current annual production of approximately 50,000 ounces Pd, 4,000 ounces Pt, 3,600 ounces Au, 450 tons Cu and 350 tons Ni).
3. The extent of the Cu-Ni-PGE mineralization present on the Buck Lake Property is not yet fully known
4. A prominent, northwesterly-trending, amoeboid-shaped magnetic anomaly overlies portions of claims 1173921, 1173922 and 1173925. The magnetic values comprising this anomaly range from 59,600 to 61,565 nT. Background values are generally less than 58,900 nT. The location of this anomaly corresponds with the reported location of the Buck Lake Intrusion and with the Main PGE Showing present on the property. This magnetic anomaly is open to the southeast and probably extends onto the portions of claims 1173921 and 1195849 which were not surveyed during the present program.
5. The Buck Lake Property warrants further exploration in order to better determine the nature and extent of the Cu-Ni-PGM mineralization present.

4.0 RECOMMENDATIONS

1. The exploration program originally proposed for the Buck Lake Property (McKay 1998) should be completed. Towards this end, the grid and magnetometer survey should be extended to cover the entire property (approximately 4 line km remain to be cut and surveyed), followed by prospecting, sampling, geological mapping and diamond drilling of prospective targets. A ground electromagnetic survey should also be considered as it would help define the location of conductive sulphide mineralization if present.

5.0 REFERENCES

- McKay, D.B. 1998. Exploration recommendations for Home Ventures Ltd.'s Buck Lake Property, Lac des Iles area, northwestern Ontario; unpublished proprietary report, 13p.
- MNDM 1998. Ontario Mining and Exploration Directory 1998; Ontario Ministry of Northern Development and Mines, 44p.
- ODM - GSC 1962. Lac Des Iles, Thunder Bay District, Ontario Department of Mines - Geological Survey of Canada, Map 2099 G, scale 1:63,360.
- Richmond, W.J. and Morehouse, W. 1992a. Area 1, Buck Lake; OPAP report (file number OP92-445); assessment files, Ministry of Northern Development and Mines, Thunder Bay District Geologist's Office, Thunder Bay.
- 1992b. Untitled prospecting report on the Buck Lake Property; assessment files (file number 2.15427), Ministry of Northern Development and Mines, Thunder Bay District Geologist's Office, Thunder Bay.
- 1994a. Area 2, Buck Lake; OPAP report (file number OP94-059); assessment files, Ministry of Northern Development and Mines, Thunder Bay District Geologist's Office, Thunder Bay.
- 1994b. Untitled prospecting report on the Buck Lake Property; assessment files (file number 2.15954), Ministry of Northern Development and Mines, Thunder Bay District Geologist's Office, Thunder Bay.
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Geology of the Tib Gabbro, Lac des Iles Area, District of Thunder Bay; p.76-79 *in* Summary of Field Work and Other Activities 1986, by the Ontario Geological Survey, edited by P.C. Thurston, Owen L. White, R.B. Barlow, M.E. Cherry, and A.C. Colvine, Ontario Geological Survey, Miscellaneous Paper 132, 435p. Accompanied by 1 Chart.

Sutcliffe, R.H. 1986.

Regional Geology of the Lac des Iles Area, District of Thunder Bay; p.70-75 *in* Summary of Field Work and Other Activities 1986, by the Ontario Geological Survey, edited by P.C. Thurston, Owen L. White, R.B. Barlow, M.E. Cherry, and A.C. Colvine, Ontario Geological Survey, Miscellaneous Paper 132, 435p. Accompanied by 1 Chart.

Sutcliffe, R.H. and Sweeny, J.M. 1985.

Geology of the Lac des Iles Complex, District of Thunder Bay; p.47-53 *in* Summary of Field Work 1985, Ontario Geological Survey, edited by J. Wood, Owen L. White, R.B. Barlow, and A.C. Colvine, Ontario Geological Survey, Miscellaneous Paper 126, 351p.

Thomson, K.P. 1992.

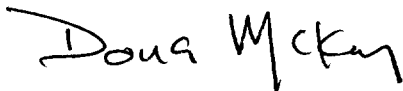
A brief overview of the East Dog River PGM Occurrence; *in* Area 1, Buck Lake by W.J. Richmond; OPAP report (file number OP92-445); assessment files, Ministry of Northern Development and Mines, Thunder Bay District Geologist's Office, Thunder Bay.

6.0 STATEMENT OF QUALIFICATIONS

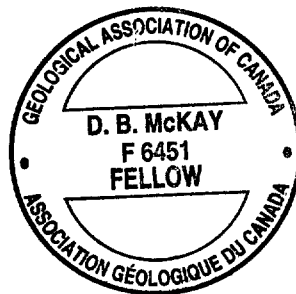
I, Douglas Bruce McKay, of RR#14, Thunder Bay, Ontario, P7B 5E5, do hereby certify that:

1. I have received H.B.Sc. and M.Sc. degrees in Geology (1984 and 1987) from Lakehead University, Thunder Bay, Ontario.
2. I have been involved in mineral exploration throughout Canada for the last 18 years exploring for precious and base metals.
3. I am currently an employee of Clark-Eveleigh Consulting of Thunder Bay, Ontario.
4. I have no financial interest in the Buck Lake Property nor in Home Ventures Ltd.
5. The information presented in this report is based on data provided to the author by Vtyl Geophysical Services and on data obtained from the Ontario Ministry of Northern Development and Mines' assessment files archived in Thunder Bay, Ontario. Additional data and diamond drill core were provided by the property owners W. Richmond and W. Morehouse. The conclusions and recommendations presented in this report are based upon all available information and upon my knowledge of the mineral exploration industry.
6. I am a Fellow (F6451) of the Geological Association of Canada.
7. I am a member of the Northwestern Ontario Prospectors Association and the Canadian Institute of Mining, Metallurgy and Petroleum.
8. I have disclosed in this report all relevant material which, to the best of my knowledge, might have a bearing on the viability of the project and the recommendations presented.
9. I consent to the use of this report by Home Ventures Ltd. for any Filing Statement, Statement of Material Facts, Prospectus, filing of assessment work or for any other reason deemed necessary by the company.

May 4, 1999



Douglas B. McKay, H.B.Sc., M.Sc.
Consulting Geologist
Clark-Eveleigh Consulting



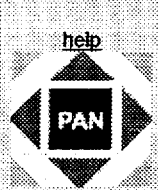
APPENDIX A

Claim Map and Claim Abstracts



Ontario Ministry of Northern Development and Mines Mines and Minerals Division

G-2660 - TIB LAKE AREA - THUNDER BAY Division



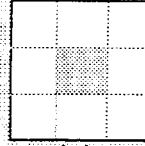
Zoom Tools



Zoom Level



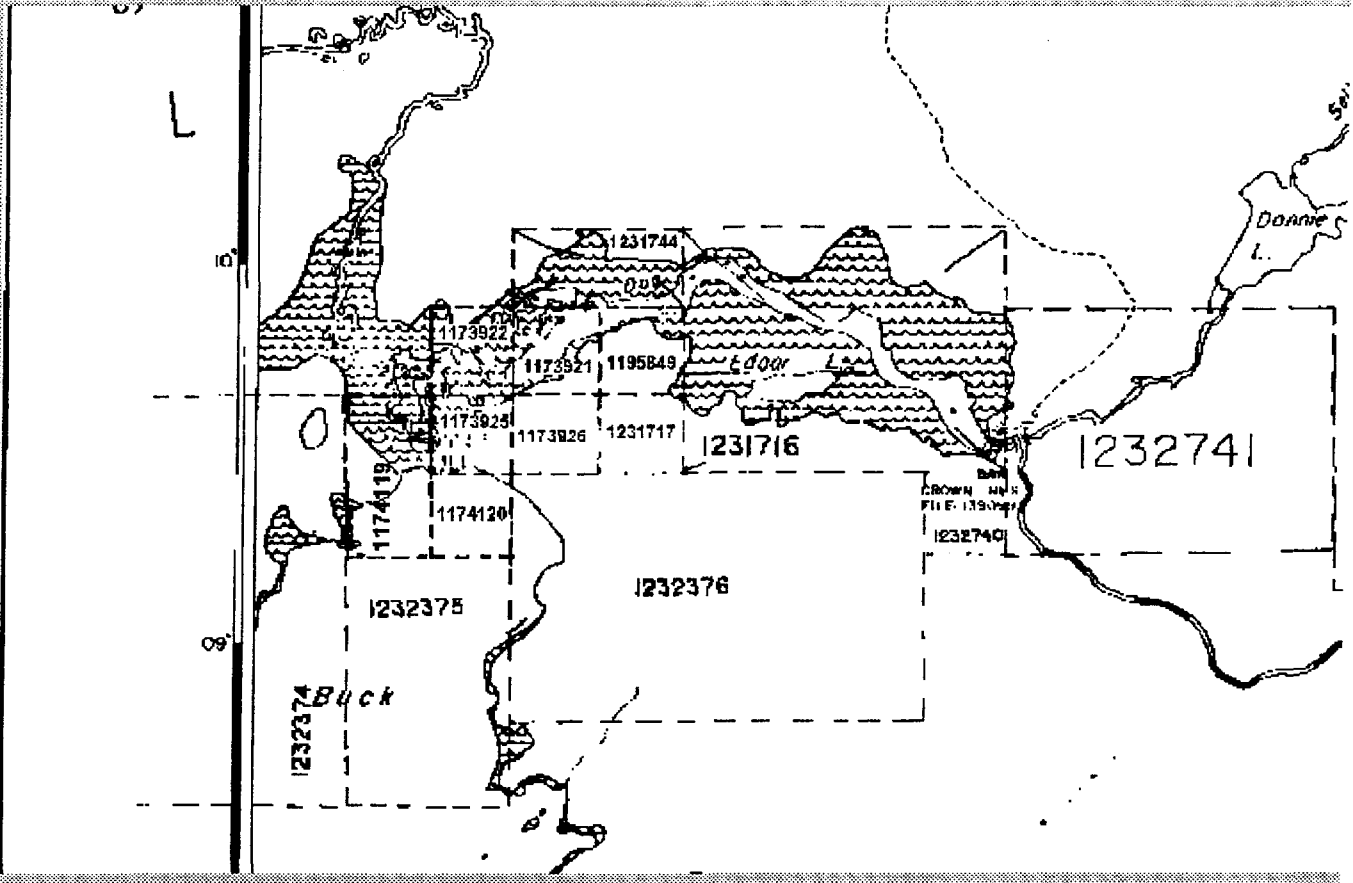
Adjacent Map



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2.19449

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Mining Lands - Mining Claims Summary

Thunder Bay - Division 40

CLAIM NUMBER:	<u>TB 1173921</u> (Click Claim Number for Details)
Unit Size:	1
Township/Area:	TIB LAKE (G-2660)
Lot Description:	
Staker:	RICHMOND WILLIAM J (E31701)
Recorded Holder:	<u>RICHMOND WILLIAM J (100.00 %)</u>
Recording Date:	1992-Jun-10
Due Date:	2002-Jun-10
Work Required:	400
Total Applied:	3200
Work Performed:	10361
Total Reserve:	<u>1087</u> (Click Reserve for Details)
Present Work Assignment:	1896
Claim Bank:	0
Claim Status:	ACTIVE

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Mining Lands - Mining Claims Transaction Listing

Thunder Bay - Division 40 / Claim Number: 1173921

<u>TYPE</u>	<u>DATE YYYYMMDD</u>	<u>\$</u>	<u>DESCRIPTION</u>	<u>\$</u>	<u>NUMBER</u>
STAKER	1992-06-10		RECORDED BY RICHMOND WILLIAM J (E31701)		R9240.00196
OTHER	1994-04-20		GEOTECHNICAL WORK PERFORMED: APPROVED: 1994-07-13	2095	Q9440.00108
WORK	1994-04-20	1200	GEOTECHNICAL WORK APPLIED APPROVED: 1994-07-13		W9440.00108
OTHER	1995-03-27		GEOTECHNICAL WORK PERFORMED: APPROVED: 1995-05-04	5487	Q9540.00095
WORK	1995-03-27	400	GEOTECHNICAL WORK APPLIED APPROVED: 1995-05-04		W9540.00095
WORK	1998-02-04	1034	GEOTECHNICAL WORK APPLIED		W9840.00037
WORK	1998-02-04	566	GEOTECHNICAL WORK APPLIED		W9840.00038
OTHER	1998-03-17		WORK PERFORMED: APPROVED: 1998-06-02	2779	Q9840.00257

Claim Reservations :

01 400' surface rights reservation around all lakes and rivers

02 Sand and gravel reserved

03 Peat reserved

04 Other reservations under the Mining Act may apply

05 Including land under water

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Mining Lands - Mining Claims Reserves

Thunder Bay - Division 40 / Claim Number: 1173921

Total Available Work on Reserve: \$ 1087

<u>Work Report Transaction Number</u>	<u>Remaining Associated Reserve</u>
---------------------------------------	-------------------------------------

W9440.00108	\$ 0
-------------	------

W9540.00095	\$ 204
-------------	--------

W9840.00257	\$ 883
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Mining Lands - Mining Claims Summary

Thunder Bay - Division 40

CLAIM NUMBER:	<u>TB 1173922</u> (Click Claim Number for Details)
Unit Size:	1
Township/Area:	TIB LAKE (G-2660)
Lot Description:	
Staker:	RICHMOND WILLIAM J (E31701)
Recorded Holder:	<u>RICHMOND WILLIAM J (100.00 %)</u>
Recording Date:	1992-Jun-10
Due Date:	2000-Jun-10
Work Required:	400
Total Applied:	2400
Work Performed:	232
Total Reserve:	0 (Click Reserve for Details)
Present Work Assignment:	0
Claim Bank:	0
Claim Status:	ACTIVE

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Mining Lands - Mining Claims Transaction Listing

Thunder Bay - Division 40 / Claim Number: 1173922

<u>TYPE</u>	<u>DATE</u> YYYYMMDD	<u>\$</u>	<u>DESCRIPTION</u>	<u>\$</u>	<u>NUMBER</u>
STAKER	1992-06-10		RECORDED BY RICHMOND WILLIAM J (E31701)		R9240.00196
OTHER	1994-04-20		GEOTECHNICAL WORK PERFORMED: APPROVED: 1994-07-13	180	Q9440.00108
WORK	1994-04-20	400	GEOTECHNICAL WORK APPLIED APPROVED: 1994-07-13		W9440.00108
OTHER	1995-03-27		GEOTECHNICAL WORK PERFORMED: APPROVED: 1995-05-04	52	Q9540.00095
WORK	1995-03-27	1600	GEOTECHNICAL WORK APPLIED APPROVED: 1995-05-04		W9540.00095
WORK	1998-03-17	400	WORK APPLIED APPROVED: 1998-06-02		W9840.00257

Claim Reservations :

01 400' surface rights reservation around all lakes and rivers

02 Sand and gravel reserved

03 Peat reserved

04 Other reservations under the Mining Act may apply

05 Including land under water

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Mining Lands - Mining Claims Summary

Thunder Bay - Division 40

CLAIM NUMBER:	<u>TB 1173925</u> (Click Claim Number for Details)
Unit Size:	<u>1</u>
Township/Area:	TIB LAKE (G-2660)
Lot Description:	
Staker:	RICHMOND WILLIAM J (E31701)
Recorded Holder:	<u>RICHMOND WILLIAM J (100.00 %)</u>
Recording Date:	1992-Jun-29
Due Date:	2000-Jun-29
Work Required:	400
Total Applied:	2400
Work Performed:	1991
Total Reserve:	<u>305</u> (Click Reserve for Details)
Present Work Assignment:	0
Claim Bank:	0
Claim Status:	ACTIVE

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Mining Lands - Mining Claims Transaction Listing

Thunder Bay - Division 40 / Claim Number: 1173925

<u>TYPE</u>	<u>DATE YYYYMMDD</u>	<u>S</u>	<u>DESCRIPTION</u>	<u>S</u>	<u>NUMBER</u>
STAKER	1992-06-29		RECORDED BY RICHMOND WILLIAM J (E31701)		R9240.00234
OTHER	1994-04-20		GEOTECHNICAL WORK PERFORMED: APPROVED: 1994-07-13	812	Q9440.00108
WORK	1994-04-20	400	GEOTECHNICAL WORK APPLIED APPROVED: 1994-07-13		W9440.00108
OTHER	1995-03-27		GEOTECHNICAL WORK PERFORMED: APPROVED: 1995-05-04	486	Q9540.00095
WORK	1995-03-27	1600	GEOTECHNICAL WORK APPLIED APPROVED: 1995-05-04		W9540.00095
OTHER	1998-03-17		WORK PERFORMED: APPROVED: 1998-06-02	693	Q9840.00257
WORK	1998-03-17	400	WORK APPLIED APPROVED: 1998-06-02		W9840.00257

Claim Reservations :

01 400' surface rights reservation around all lakes and rivers

02 Sand and gravel reserved

03 Peat reserved

04 Other reservations under the Mining Act may apply

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2.19449

Mining Lands - Mining Claims Reserves

Thunder Bay - Division 40 / Claim Number: 1173925

Total Available Work on Reserve: \$ 305

Work Report Transaction Number Remaining Associated Reserve

W9440.00108 S 12

W9840.00257 S 293

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Mining Lands - Mining Claims Summary

Thunder Bay - Division 40

CLAIM NUMBER:	<u>TB 1173926</u> (Click Claim Number for Details)
Unit Size:	1
Township/Area:	TIB LAKE (G-2660)
Lot Description:	
Staker:	RICHMOND WILLIAM J (E31701)
Recorded Holder:	<u>RICHMOND WILLIAM J (100.00 %)</u>
Recording Date:	1992-Jun-29
Due Date:	2000-Jun-29
Work Required:	400
Total Applied:	2400
Work Performed:	1195
Total Reserve:	0 (Click Reserve for Details)
Present Work Assignment:	0
Claim Bank:	0
Claim Status:	ACTIVE

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Mining Lands - Mining Claims Transaction Listing

Thunder Bay - Division 40 / Claim Number: 1173926

<u>TYPE</u>	<u>DATE YYYYMMDD</u>	<u>S</u>	<u>DESCRIPTION</u>	<u>S</u>	<u>NUMBER</u>
STAKER	1992-06-29		RECORDED BY RICHMOND WILLIAM J (E31701)		R9240.00234
WORK	1994-04-20	400	GEOTECHNICAL WORK APPLIED APPROVED: 1994-07-13		W9440.00108
OTHER	1995-03-27		GEOTECHNICAL WORK PERFORMED: APPROVED: 1995-05-04	1195	Q9540.00095
WORK	1995-03-27	1600	GEOTECHNICAL WORK APPLIED APPROVED: 1995-05-04		W9540.00095
WORK	1998-03-17	400	WORK APPLIED APPROVED: 1998-06-02		W9840.00257

Claim Reservations :

01 400' surface rights reservation around all lakes and rivers

02 Sand and gravel reserved

03 Peat reserved

04 Other reservations under the Mining Act may apply

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Mining Lands - Mining Claims Summary

Thunder Bay - Division 40

CLAIM NUMBER:	<u>TB 1174119</u> (Click Claim Number for Details)
Unit Size:	2
Township/Area:	TIB LAKE (G-2660)
Lot Description:	
Staker:	RICHMOND WILLIAM J (E31701)
Recorded Holder:	<u>RICHMOND WILLIAM J (100.00 %)</u>
Recording Date:	1996-May-31
Due Date:	1999-May-31
Work Required:	800
Total Applied:	800
Work Performed:	504
Total Reserve:	0 (Click Reserve for Details)
Present Work Assignment:	0
Claim Bank:	0
Claim Status:	ACTIVE

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Mining Lands - Mining Claims Transaction Listing

Thunder Bay - Division 40 / Claim Number: 1174119

<u>TYPE</u>	<u>DATE</u> YYYYMMDD	<u>§</u>	<u>DESCRIPTION</u>	<u>§</u>	<u>NUMBER</u>
STAKER	1996-05-31		RECORDED BY RICHMOND WILLIAM J (E31701)		R9640.00294
OTHER	1998-03-17		WORK PERFORMED: APPROVED: 1998-06-02	504	Q9840.00257
WORK	1998-03-17	800	WORK APPLIED APPROVED: 1998-06-02		W9840.00257

Claim Reservations :

01 400' surface rights reservation around all lakes and rivers

02 Sand and gravel reserved

03 Peat reserved

04 Other reservations under the Mining Act may apply

05 Including land under water

15 Subject to flooding rights

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Mining Lands - Mining Claims Summary

Thunder Bay - Division 40

CLAIM NUMBER:	<u>TB 1174120</u> (Click Claim Number for Details)
Unit Size:	1
Township/Area:	TIB LAKE (G-2660)
Lot Description:	
Staker:	RICHMOND WILLIAM J (E31701)
Recorded Holder:	<u>RICHMOND WILLIAM J (100.00 %)</u>
Recording Date:	1996-May-31
Due Date:	1999-May-31
Work Required:	400
Total Applied:	400
Work Performed:	0
Total Reserve:	0 (Click Reserve for Details)
Present Work Assignment:	0
Claim Bank:	0
Claim Status:	ACTIVE

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Mining Lands - Mining Claims Transaction Listing

Thunder Bay - Division 40 / Claim Number: 1174120

<u>TYPE</u>	<u>DATE YYYYMMDD</u>	<u>S</u>	<u>DESCRIPTION</u>	<u>S</u>	<u>NUMBER</u>
STAKER	1996-05-31		RECORDED BY RICHMOND WILLIAM J (E31701)		R9640.00294
WORK	1998-03-17	400	WORK APPLIED APPROVED: 1998-06-02		W9840.00257

Claim Reservations :

01 400' surface rights reservation around all lakes and rivers

02 Sand and gravel reserved

03 Peat reserved

04 Other reservations under the Mining Act may apply

05 Including land under water

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Mining Lands - Mining Claims Summary

Thunder Bay - Division 40

CLAIM NUMBER:	<u>TB 1195849</u> (Click Claim Number for Details)
Unit Size:	<u>1</u>
Township/Area:	TIB LAKE (G-2660)
Lot Description:	
Staker:	RICHMOND WILLIAM J (E31701)
Recorded Holder:	<u>RICHMOND WILLIAM J (100.00 %)</u>
Recording Date:	<u>1994-Aug-27</u>
Due Date:	2000-Aug-27
Work Required:	400
Total Applied:	1600
Work Performed:	418
Total Reserve:	<u>0</u> (Click Reserve for Details)
Present Work Assignment:	<u>0</u>
Claim Bank:	0
Claim Status:	ACTIVE

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Mining Lands - Mining Claims Transaction Listing

Thunder Bay - Division 40 / Claim Number: 1195849

<u>TYPE</u>	<u>DATE YYYYMMDD</u>	<u>S</u>	<u>DESCRIPTION</u>	<u>S</u>	<u>NUMBER</u>
STAKER	1994-08-27		RECORDED BY RICHMOND WILLIAM J (E31701)		R9440.00393
OTHER	1995-03-27		GEOTECHNICAL WORK PERFORMED: APPROVED: 1995-05-04	418	Q9540.00095
WORK	1995-03-27	1200	GEOTECHNICAL WORK APPLIED APPROVED: 1995-05-04		W9540.00095
WORK	1998-03-17	400	WORK APPLIED APPROVED: 1998-06-02		W9840.00257

Claim Reservations :

01 400' surface rights reservation around all lakes and rivers

02 Sand and gravel reserved

03 Peat reserved

04 Other reservations under the Mining Act may apply

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APPENDIX B

Equipment Specifications

GEM
Systems

ADVANCED MAGNETOMETERS

GSM-19

Instruction Manual

Release 4.0



GEM Systems Inc.

52 West Beaver Creek Rd. Unit 14
Richmond Hill, Ontario
Canada L4B 1L9

Phone: (905) 764-8008

Fax: (905) 764-9329

2. INSTRUMENT SPECIFICATIONS

2.1 Magnetometer / Gradiometer

Resolution:	0.01 nT (gamma), magnetic field and gradient.
Accuracy:	0.2 nT over operating range.
Range:	20,000 to 120,000 nT, automatic tuning requiring initial set-up.
Gradient Tolerance:	Over 10,000 nT/m
Operating interval:	3 seconds minimum, faster optional. Readings initiated from keyboard, external trigger, or carriage return via RS-232-C.
Input/Output:	6 pin weatherproof connector, RS-232C, and (optional) analog output.
Power Requirements:	12 V, 200 mA peak (during polarization), 30 mA standby. 300mA peak in gradiometer mode.
Power Source:	Internal 12 V, 1.9 Ah sealed lead-acid battery standard, others optional. An External 12V power source can also be used.
Battery Charger:	Input: 110/220 VAC, 50/60 Hz and/or 12 VDC (optional). Output: 12V dual level charging.
Operating Ranges:	Temperature: -40 °C to +60 °C. Battery Voltage: 10.0 V minimum to 15V maximum. Humidity: up to 90% relative, non condensing.
Storage Temperature:	-50°C to +65°C
Dimensions:	Console: 223 x 69 x 240mm. Sensor staff: 4 x 450mm sections. Sensor: 170 x 71 mm dia. Weight: Console 2.1kg, Staff 0.9kg, Sensors 1.1kg each.

2.2 VLF

Frequency Range:	15 - 30.0 kHz.
Parameters Measured:	Vertical In-phase and Out-of-phase components as percentage of total field. 2 components of horizontal field. Absolute amplitude of total field.
Resolution:	0.1%.
Number of Stations:	Up to 3 at a time.
Storage:	Automatic with: time, coordinates, magnetic field/gradient, slope, EM field, frequency, in- and out-of-phase vertical, and both horizontal components for each selected station.
Terrain Slope Range:	0° - 90° (entered manually).
Sensor Dimensions:	14 x 15 x 9 cm. (5.5 x 6 x 3 inches).
Sensor Weight:	1.0 kg (2.2 lb).

3. INSTRUMENT DESCRIPTION

3.1 Physical Overview

The parts of the GSM-19 magnetometer/gradiometer are as follows.

- The sensor is a dual coil type designed to reduce noise and improve gradient tolerance. The coils are electrostatically shielded and contain a proton rich liquid in a pyrex bottle, which also acts as an RF resonator.
- The sensor cable is coaxial, typically RG-58/U, up to 100m long.
- The staff is made of strong aluminum tubing sections (plastic staff optional). This construction allows for a selection of sensor elevations above ground during surveys. For best precision the full staff length should be used. Recommended sensor separation in gradiometer mode is one staff section (56cm from sensor axis to sensor axis), although two or more sections are sometimes used for maximum sensitivity.
- The console contains all the electronic circuitry. It has a 16 key keyboard, a 4 x 20 character alphanumeric display, and sensor and power/input/output connectors. The keyboard also serves as an ON-OFF switch.
- The power/input/output connector also serves as RS232C input/output and optionally as analog output and/or contact closure triggering input.
- The keyboard, front panel, and connectors are sealed i. e. **the instrument can operate under rainy conditions.**
- The charger has 2 levels of charging, full and trickle, switching automatically from one to another. Input is normally 110V 50/60Hz. Optionally, 12 VDC input can be provided.
- The all-metal housing of the console guarantees excellent EMI protection.

3.2 Software Version 4.0

There are several major versions of software for the GSM-19. As of August 92, GEM Systems added a major software upgrade to its GSM-19 family, enhancing its capabilities. This new generation of software (version 4.0) has the following advantages.

1. Diurnal correction (reduction) with interpolation can be used in conjunction with other GSM-19 models with software version 4.0. This allows the base mag to run with longer cycle time. Previous software could do interpolation only with fast GSM-19 types.
2. Memory filing system. Now 50 files can be stored in a directory, and mode of operation can be changed without erasing memory. With the software previous to version 4.0, only 1 file could be retained in memory, and this would be lost when modes of operation were switched.
3. Line and station numbers have been enlarged. Lines can now be 5 digits as opposed to 4 digits in previous software. Station numbers are now 7 digits as opposed to 6 in the previous software.
4. Transmission time has been significantly shortened.





Ministry of Northern Development and Mines

Thunder Bay Mining Division
Declaration of Assessment Work Performed on Mining Land MAY 10 1999

11:10a.m. JLC

Transaction Number (office use)
W-9940.00/27
Assessment Files Research Imaging

RECEIVED
Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act the assessment work and correspond with the mining land holder. Questions should be directed to the Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Thunder Bay, Ontario, P7B 6A5.



52H04NW2004 2.19449 TIB LAKE

900

claim, use form 0240.

- Please type or print in ink.

1. Recorded holder(s): (Attach a list if necessary.)

Name: William J. Richmond	187361
Address: 413 Lillian St., Thunder Bay, ON, P7A 1J4	Telephone Number: 807-683-6683
	Fax Number:
Name:	Client Number:
Address:	Telephone Number:
	Fax Number:

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Geotechnical: Physical: Rehabilitation

Work Type: Line cutting	Office Use
Ground Magnetometer Survey	Commodity
Dates Work Performed From 10 04 1999 To 12 04 1999	Total \$ Value of Work Claimed 4,871. ⁰⁰
Global Positioning System Data (if available)	NTS Reference
Township/Area Tib Lake	Mining Division Thunder Bay
M or G-Plan Number: G-2660	Resident Geologist District Thunder Bay

- Please remember to:
- obtain a work permit from the Ministry of Natural Resources as required;
 - provide proper notice to surface rights holders before starting work;
 - complete and attach a Statement of Costs, form 0212;
 - provide a map showing contiguous mining lands that are linked for assigning work;
 - include two copies of your technical report.

RECORDED
MAY 10 1999

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name: Clark-Eveleigh Consulting	Telephone Number: 807-625-9291
Address: 1000 Alloy Drive, Thunder Bay, Ontario, P7B 6A5	Fax Number: 807-625-9293
Name:	Telephone Number:
Address:	Fax Number:
Name:	Telephone Number:
Address:	Fax Number:

RECEIVED
MAY 13 1999
3:09 pm
GEOSCIENCE ASSESSMENT OFFICE

2.19449

4. Certification by Recorded Holder or Agent

I, Aubrey Eveleigh, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent	Date May 5, 1999
Agent's Address 1000 Alloy Drive, Thunder Bay, Ontario, P7B 6A5	Telephone Number 807-625-9291 Fax Number 807-625-9293

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form. W. 9940.00127

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$ 8,892	\$ 4,000	0	\$4,892
1 1173921	1	\$718	0	\$718	0
2 1173922	1	\$806	\$400	\$406	0
3 1173925	1	\$622	\$800	0	0
4 1173926	1	\$27	\$800	0	0
5 1174119	2	\$1,734	\$1,600	\$134	0
6 1174120	1	\$964	\$800	\$93	\$71
7 1195849	1	0	\$400	0	0
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals		\$4,871	\$4,800	\$1,351	\$71

I, Aubrey Eveleigh, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

(Print Full Name)
[Signature] Date May 5, 1999

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

RECORDED
MAY 10 1999

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first followed by option number 2 if necessary.

For Office Use Only

<p>Received Stamp</p> <p style="font-size: 2em; transform: rotate(-15deg);">2.19449</p>	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

May 31, 1999

WILLIAM J RICHMOND
413 LILLIAN STREET
THUNDER BAY, Ontario
P7A-1J4

Telephone: (888) 415-9846
Fax: (877) 670-1555

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Dear Sir or Madam:

Submission Number: 2.19449

Status

Subject: Transaction Number(s): W9940.00127 Deemed Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at steve.beneteau@ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,



ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Work Report Assessment Results

Submission Number: 2.19449

Date Correspondence Sent: May 31, 1999

Assessor: Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9940.00127	1173921	TIB LAKE	Deemed Approval	May 31, 1999

Section:
14 Geophysical MAG

Correspondence to:
Resident Geologist
Thunder Bay, ON

Recorded Holder(s) and/or Agent(s):
Aubrey Eveleigh
THUNDER BAY, ONTARIO, CANADA

Assessment Files Library
Sudbury, ON

WILLIAM J RICHMOND
THUNDER BAY, Ontario

REFERENCES

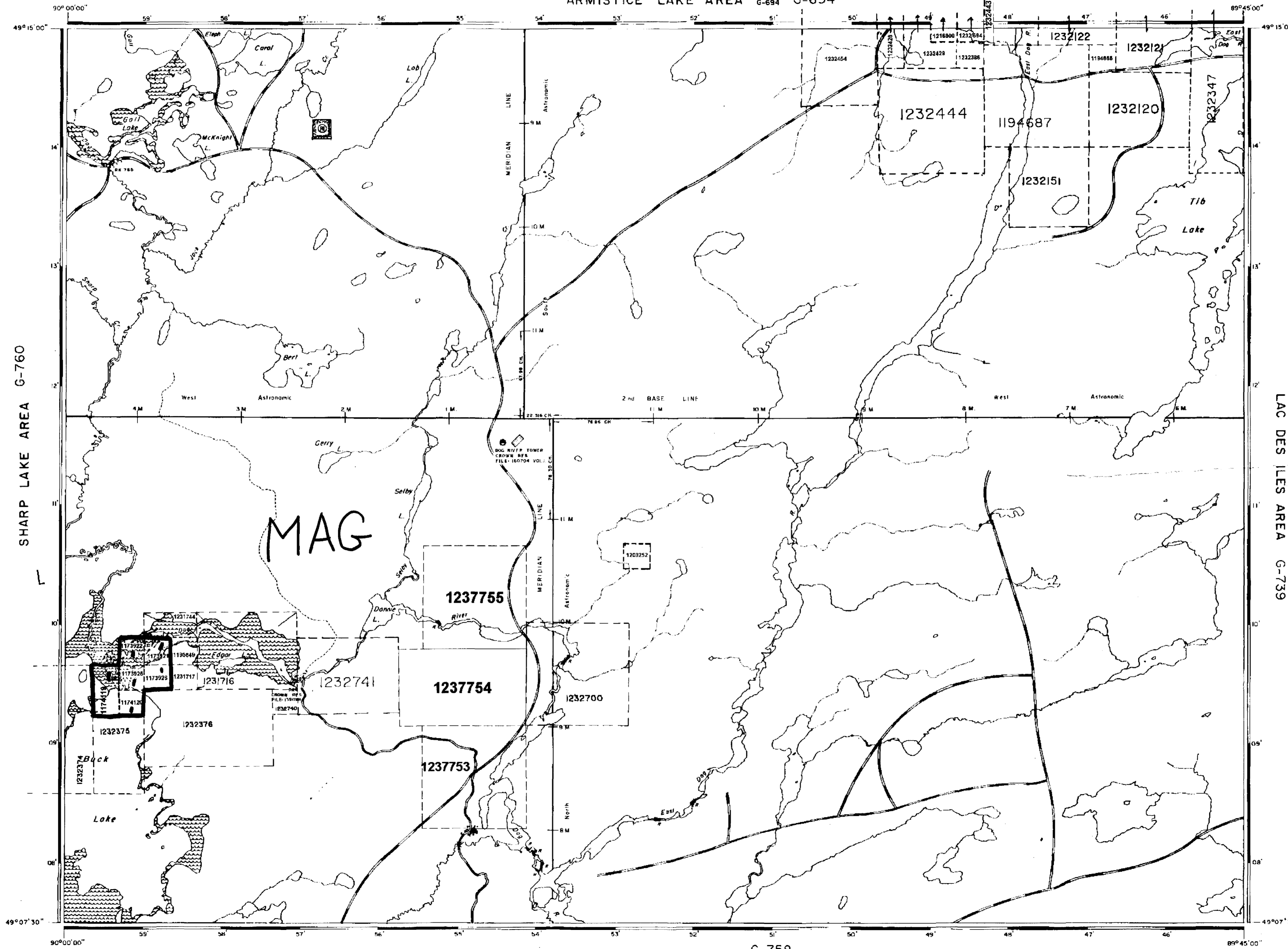
FLOODING

FLOODING OF THE DOG RIVER AND BUCK LAKE TO CONTOUR ELEVATION 1070', SURVEYED BY R.S. KIRKUP O.L.S. 1948. PLAN NO R 25-25 CONTROLLED BY THE DEPARTMENT OF LANDS AND FORESTS. 20 FEB 1962. FILE: 139099

FLOODING ON DOG RIVER AND GALL LAKE TO AN ELEVATION OF 1070' ABOVE THE NATURAL HIGH WATER MARK, SURVEYED BY J.C. KIRKUP O.L.S. 1952. PLAN NO S 8-16. GRANTED TO THE GREAT LAKES PAPER CO LTD. L.O. 6977. FILE: 146074

Ⓜ SURFACE RIGHTS WITHDRAWN FROM STAKING ORDER # WNCR 09/83.

ARMISTICE LAKE AREA G-694 G-694



REFERENCES

TOPOGRAPHY

LAKES, RIVERS, ETC., FROM FOREST RESOURCES INVENTORY SHEET NO. 492 894.

SURVEYS

TRAVERSE OF DOG RIVER, BUCK CREEK AND BUCK LAKE BY R.S. KIRKUP O.L.S. 1948. PLAN NO R 25-25.

2nd. BASE LINE AND MERIDIAN LINE (SOUTH OF 2nd BASE LINE) BY PHILLIPS AND BENNER O.L.S. 1921. FIELD NOTE BOOK NO. 2476.

MERIDIAN LINE NORTH OF 2nd. BASE LINE BY PHILLIPS AND BENNER O.L.S. 1922. FIELD NOTE BOOK NO. 2481.

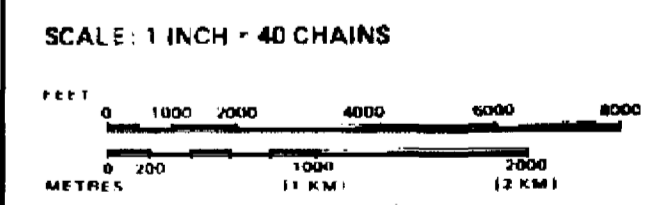
LEGEND

- 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 STRIAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

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 8, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1910, CHAP. 380 SEC. 23, SUBSEC. 1



AREA
TIB LAKE
 M.N.R. ADMINISTRATIVE DISTRICT
THUNDER BAY
 MINING DIVISION
THUNDER BAY
 LAND TITLES / REGISTRY DIVISION

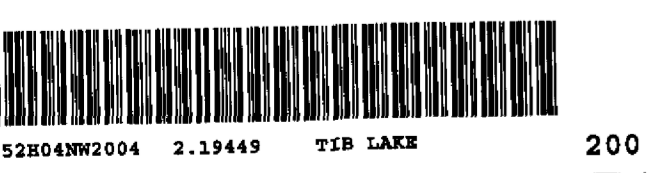
Ministry of Natural Resources Ontario
 Ministry of Northern Development and Mines

Date: OCTOBER, 1986
 in Service May 11, 1983
 Number: **G-2660**

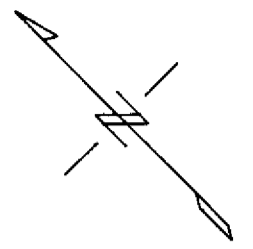
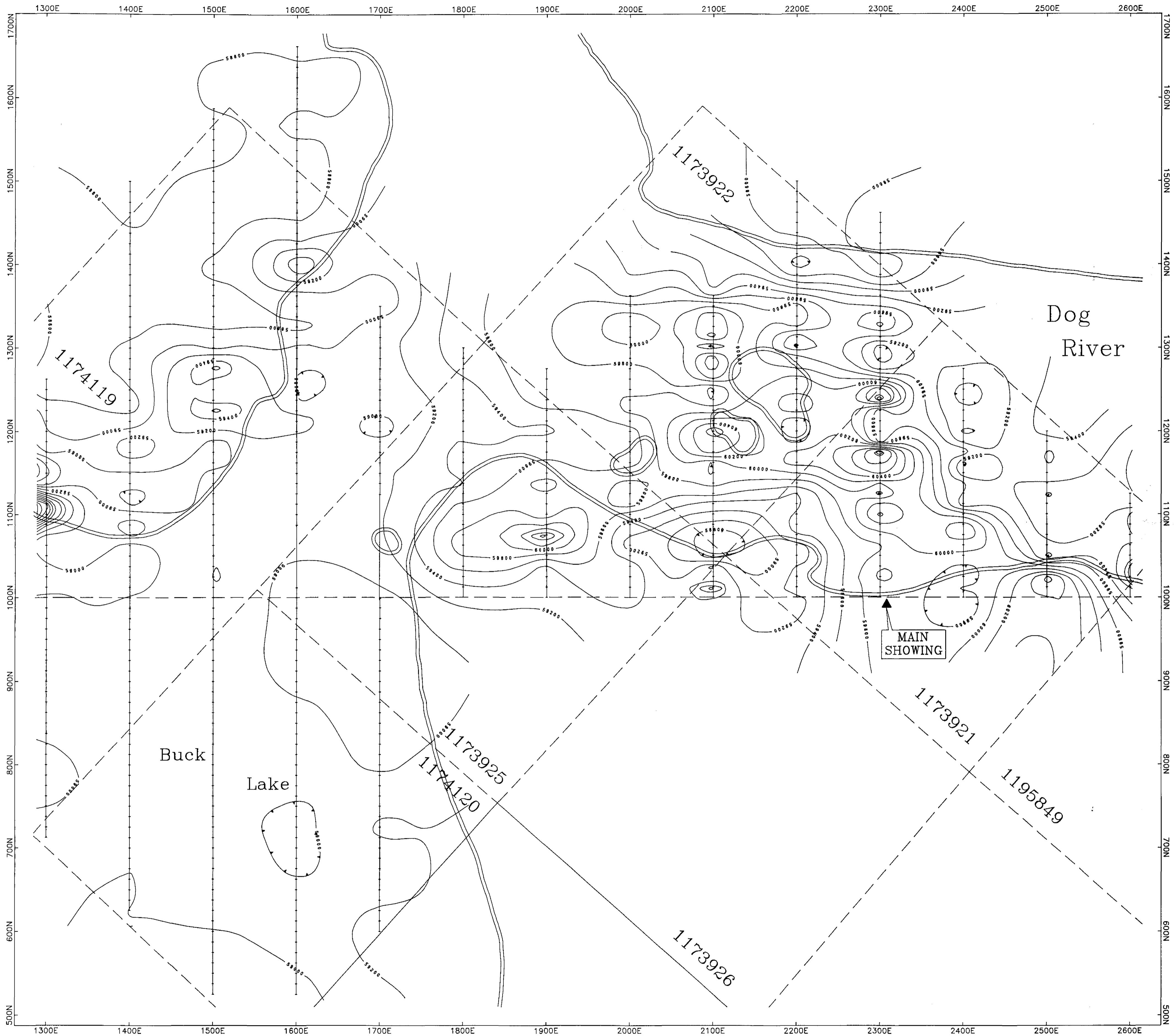
SHARP LAKE AREA G-760

LAC DES ILES AREA G-739

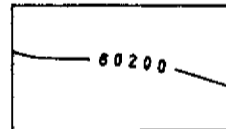

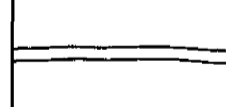
SENGA LAKE AREA G-758



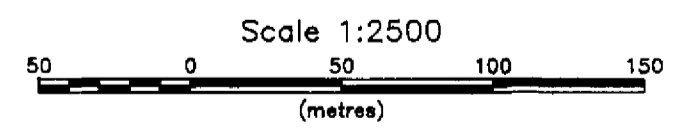
NOTICE: The information that appears on this map has been compiled from various sources, and accuracy is not guaranteed. Those wishing to stake mining claims should consult with the MINING RECORDER, Ministry of Northern Development and Mines, for additional information on the status of the lands shown hereon.



LEGEND

-  Magnetic Contour Line
(contour interval 200 nT)
-  Claim Line
-  Shoreline

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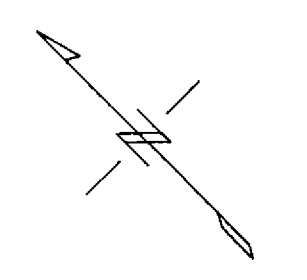
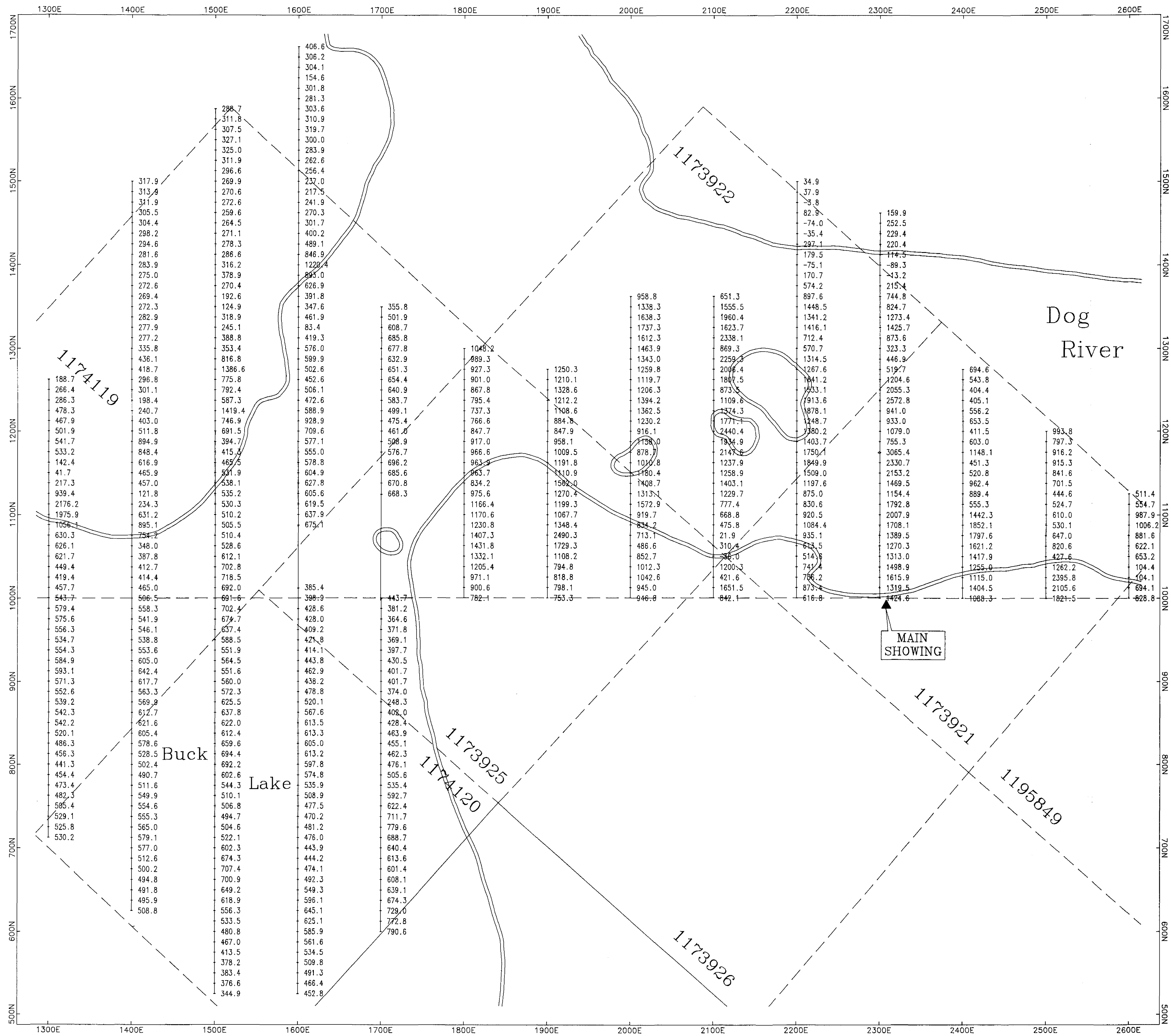


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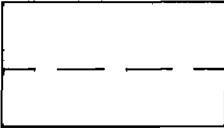
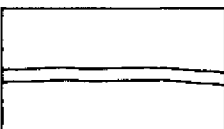
MAP 1

HOME VENTURES LTD.
BUCK LAKE PROPERTY TOTAL FIELD MAGNETICS
GEM GSM-19 BASE and FIELD INSTRUMENTS Datum: 5850nT
CLARK-EVELEIGH CONSULTING

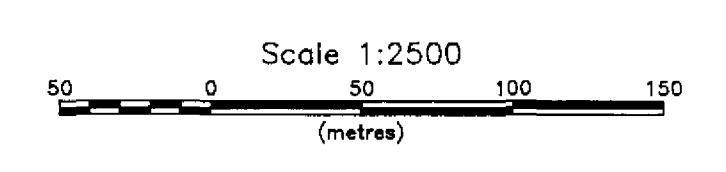




LEGEND

-  Claim Line
-  Shoreline

RECEIVED
 MAY 13 1999
 GEOSCIENCE ASSESSMENT
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2.19449

MAP 2

HOME VENTURES LTD.
BUCK LAKE PROPERTY TOTAL FIELD MAGNETICS
GEM GSM-19 BASE and FIELD INSTRUMENTS Datum: 58500nT
CLARK-EVELEIGH CONSULTING

