010

GEOLOGICAL REPORT

ON THE

BLUEBERRY ISLAND GOLD PROPERTY

HORWOOD TOWNSHIP

NORTH-EASTERN ONTARIO

NTS 42 B 1

August 20, 1987

R. Hodgson, B.Sc.
Geologist

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INTRODUCTION

This report describes the results of a geological survey conducted over a twenty-five claim gold prospect comprising 400 hectares in Horwood Township, Northeastern Ontario. The survey was carried out during the period July 9 to August 15, 1987, on a chainsaw cut grid which covered the entire property with one hundred meter spaced north-south lines.

A detailed description of the principal rock types encountered during the course of the survey is provided, along with the character and dimension of veins and mineralized zones. Recommendations for further development of the property are also made. The survey was conducted by Rand Hodgson, geologist, of 43 St. Olaves Rd., Toronto, Ontario, M6S 3H5.

PROPERTY DESCRIPTION, LOCATION AND ACCESS

The property consists of twenty-five contiguous, unpatented mining claims located in the central portion of Horwood Township, Porcupine Mining Division, N.T.S. Reference Sheet No.42-B-1. Horwood Township is approximately ninety-five kilometers southwest of Timmins, Ontario.

The claim block is adjacent to the east shore of Horwood Lake and includes Blueberry Island, just north of Pinecone Point which juts out from the west side of the lake. Access is easiest by float plane from Timmins. An alternate route is via Highway 101 west from Timmins for 80 kilometers to Highway 616, then sixteen kilometers along a gravel access road which leads to the public landing near the north end of Horwood Lake. The boat ride to the property is about 13 kilometers.

The claims are registered in the name of Pelangio-Larder Mines Limited, P.O. Box 1456, Timmins, Ontario, P4N 7N2. The project is being conducted under a joint venture agreement with Bayridge Developments Inc., Suite 1800 - 400 Burrard Street, Vancouver, B.C., V6C 3A6, the terms of which provide Bayridge Developments with an interest in the property in return for financing the exploration project.

The claims' schedule, containing a list of the claims and their assessment work due dates is provided in the appendix.

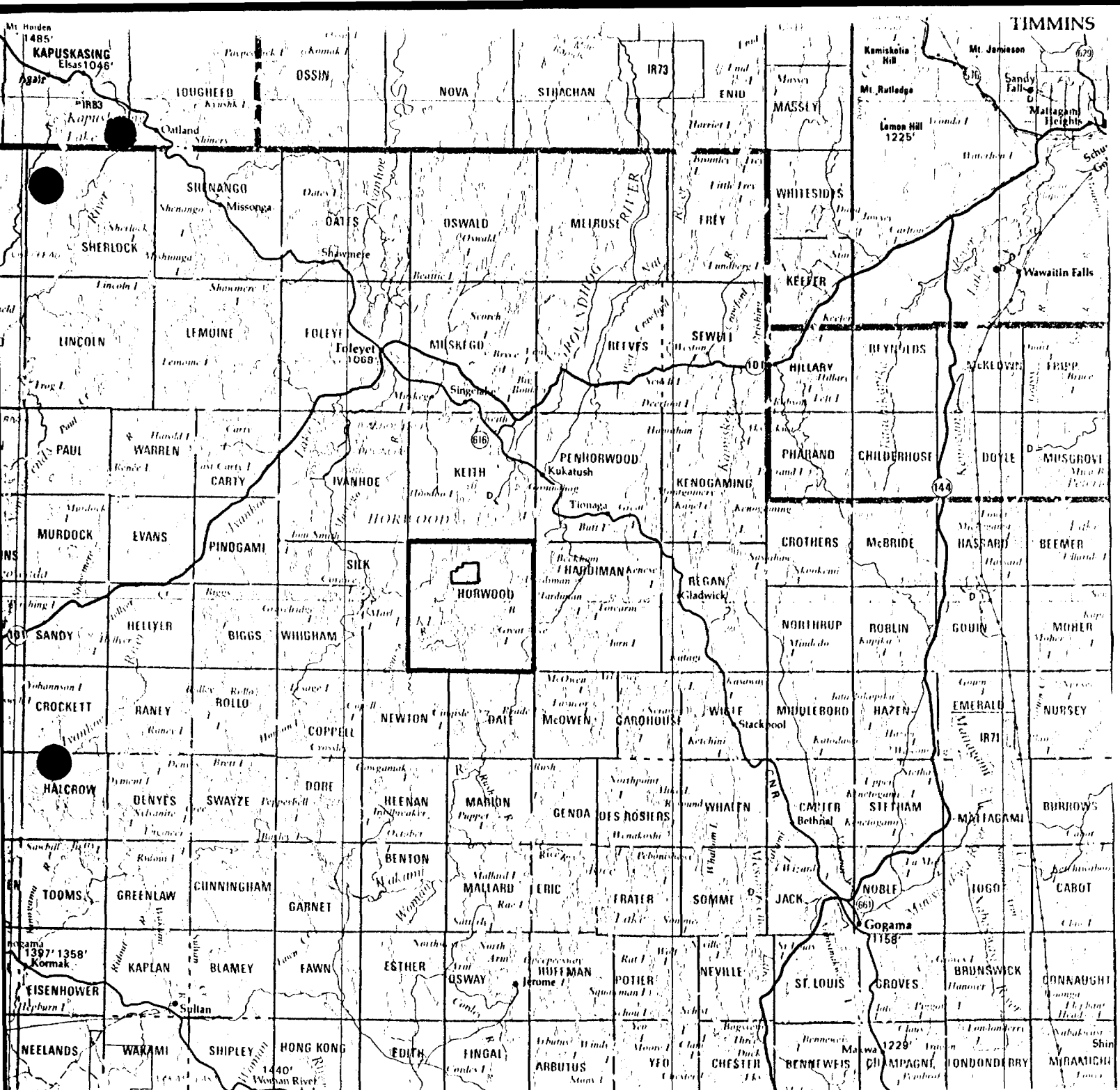
TOPOGRAPHY & OVERBURDEN

The property is cut in half by an extensive coverage of cedar swamp which trends northeasterly across the land portion of the property. About 1/6 of the total area is covered by this swamp. A further 1/3 of the property (the north and east portions) is covered by water,

LOCATION MAP

Blueberry Island Gold Property

Figure 1

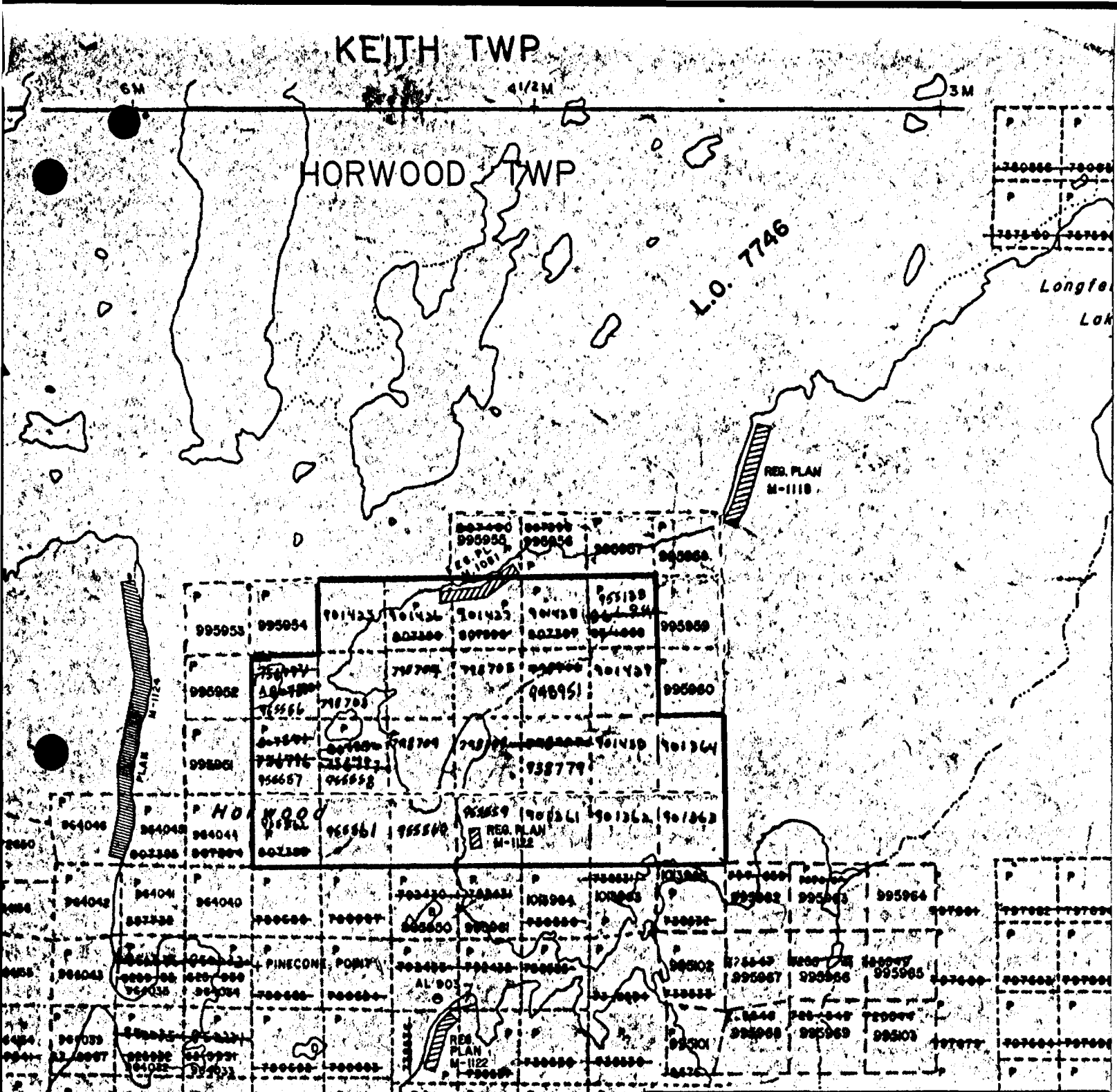


DETAILED SAMPLE LOCATION MAP

Blueberry Island Gold Property

SCALE: 1: 600,000

Figure 2



CLAIM LOCATION MAP

Blueberry Island Gold Property

SCALE: 1"=1/2 Mile

Figure 3

leaving the remaining half with good scattered outcrop exposure in a series of east-north-east trending ridges and valleys. Maximum relief would be in the order of 5-10 meters, and overburden is shallow (except in the cedar swamp), probably rarely exceeding 5 meters.

REGIONAL GEOLOGY *

The Blueberry Island property lies within the east-west trending Swayze-Deloro Metavolcanic belt which forms part of the Abitibi sub-province. All rocks are Archean in age with the exception of the middle to late Precambrian diabase dyke swarms.

This belt contains two complete sequences of mafic and felsic metavolcanics with associated metasediments. The mafic metavolcanics predominate and consist of massive flows which in many exposures display pillow or amygdaloidal structures. Flows and pyroclastic rocks of rhyolitic, dacitic or trachytic composition form the felsic metavolcanic units, with rhyolitic varieties being the most common.

Less than ten percent of the Swayze-Deloro Belt is composed of metasedimentary rocks. In decreasing order of abundance they include greywacke, arkose, conglomerate, quartzite and argillite.

Numerous Algoman granitic intrusives have deformed the belt's margin into an arcuate pattern typical of many

TABLE 4 TABLE OF LITHOLOGIC UNITS FOR THE HORWOOD LAKE AREA.

CENOZOIC
QUATERNARY
RECENT
Lake, stream, and swamp deposits.
PLEISTOCENE
Glacial drift, sand, gravel, boulders, and varved clays.

UNCONFORMITY

PRECAMBRIAN
MIDDLE TO LATE PRECAMBRIAN (PROTEROZOIC)
MAFIC INTRUSIVE ROCKS
Olivine diabase dikes (Abitibi-type), quartz diabase, and porphyritic diabase dikes.

INTRUSIVE CONTACT

EARLY PRECAMBRIAN (ARCHEAN)
LATE FELSIC TO INTERMEDIATE INTRUSIVE ROCKS
Biotite granodiorite, biotite quartz monzonite, porphyritic biotite granodiorite, porphyritic biotite quartz monzonite, biotite-hornblende quartz diorite, hornblende monzonite, xenolithic granitic rocks, hornblende quartz monzonite, aplite dikes, muscovite granodiorite, hornblende granodiorite, biotite-hornblende diorite.

INTRUSIVE CONTACT

EARLY FELSIC TO INTERMEDIATE INTRUSIVE ROCKS
Biotite trondhjemite, biotite-hornblende trondhjemite, biotite-hornblende diorite, quartz porphyry, feldspar porphyry, quartz-feldspar porphyry, migmatite.

INTRUSIVE CONTACT

MAFIC AND ULTRAMAFIC INTRUSIVE ROCKS
ULTRAMAFIC INTRUSIVE ROCKS
Dark green-black serpentinite, light blue-green serpentinite, talc-carbonate serpentinite, sheared serpentinite.

MAFIC INTRUSIVE ROCKS
Metagabbro, xenolithic metagabbro, porphyritic to equigranular diorite, hornblendite, metagabbro dikes.

METAVOLCANICS AND METASEDIMENTS
METASEDIMENTS
Greywacke, conglomerate, chert, chert breccia, quartzite, arkose, slate.
FELSIC TO INTERMEDIATE METAVOLCANICS
Tuff, lapilli-tuff, tuff-breccia, pyroclastic breccia, felsic flows, quartz-feldspar crystal tuff, feldspar and/or quartz porphyry subvolcanic rocks, miarolitic subvolcanic rocks.

MAFIC TO INTERMEDIATE METAVOLCANICS
Amygdaloidal metavolcanics, pillowed metavolcanics, crenulated metavolcanics, laminated metavolcanics, medium-to coarse-grained metavolcanics, mafic breccia, amphibolitized metavolcanics, massive metavolcanics, garnetiferous metavolcanics, variolitic metavolcanics, porphyritic andesite, migmatized metavolcanics.

Archean greenstone belts. Mafic and ultramafic intrusions having dioritic, gabbroic and serpentinized compositions occur throughout the belt. These bodies form as sills or stocks and predate the granitic intrusives.

A green schist facies regional metamorphism predominates over the entire area with epidote-almandine amphibolite grade being present in contact metamorphic aureoles.

SUMMARY OF PREVIOUS EXPLORATION & DEVELOPMENT **

History of Previous Work and Results

1909 Early prospectors found several small gold showings.

1949-1959 J.E. Lefever put down 32 "x-ray" diamond drill holes for 2389 feet. Only assay recorded was 0.51 oz gold per ton over 10.0 feet. A "grab" sample from a gold showing on the north shore of a small island on the north boundary of claim P955558 assayed 5.46 oz gold per ton.

1960 Kerr Addison Mines Limited carried out a limited magnetometer survey and drilled 7 holes for 3026 feet. A gold-bearing zone 500 feet

long and 4 feet wide averaged 0.20 oz gold per ton over 12 inches for a strike length of 360 feet. Character samples from a third vein assayed up to 1.33 oz gold per ton.

1972 Noranda Exploration Co. Ltd. carried out a McPhar SS-15 vertical loop E-M and fluxgate Magnetometer survey. Two weak conductors were found.

1980 M.P.H. Consulting Limited carried out VLF E-M and magnetometer survey using 300 foot line spacing and 100 foot stations. 10 conductors were found, and further exploration was recommended to Ingamar Explorations Limited.

1982 Raise Contracting carried out stripping and trenching on the "Main" and "Inlet" gold showings, and also did 8 miles of mapping on 2 claims.

PROPERTY GEOLOGY

(a) Lithologies

The property consists of three major rock types; mafic metavolcanics, mafic intrusives and intermediate

felsic plutonics. There are also a few minor exposures of felsic metavolcanics, volcanogenic metasediments and felsic intrusive (hypabyssal) rocks such as quartz-feldspar porphyry. These lithologies are described as follows:

Mafic Metavolcanics

Mafic metavolcanics constitute the oldest and most common rock type on the property. They represent about 90% of all outcrop in the northern and western parts of the claim group. North of the baseline, these rocks generally occur as thinly interbedded massive flows, tuffs, lappilli tuffs and pyroclastic breccias. Interbedded flows and tuffs commonly occur within the space of only a few meters. They are green-grey, green, medium to coarse grained, often heavily sheared, amphibolized, and chloritized. The shear zones have a phyllite-like facility due to the lineal re-arrangement of biotite minerals in the rock.

Amygdaloidal flows are not common in the mafic volcanics although they were observed in a pillowed andesite located at L.1E, 4N on the grid. In this case the vesicles were about 5 mm in diameter and infilled with epidote.

Pillow lavas (mainly andesite) seemed to be more prevalent in the southern half of the property, although this might be due to the fact that greater outcrop exposure occurs to the south.

The individual pillows range from 15 cm to 2 meters in length and they provide good regional

stratigraphic information. Conclusive identification of tops was rare however, due to deformation and insufficient exposure.

Some of the flows have developed a very coarse grained subhedral crystalline texture which makes them difficult to distinguish from some of the fine grained hornblende gabbros - especially when the two rock types interfinger in close proximity to one another.

The mafic tuffs and lappilli tuffs were comprised of typically dark green andesitic matrix with chloritic stretched fragments ranging in length from 1 mm up to 15 cm.

INTERMEDIATE-FELSIC PLUTONIC ROCKS

The Horwood Peninsula Pluton extends onto the south-east corner of the property from the east and then passes beneath it out into Horwood Lake. The rocks uniformly consist of medium to coarse grained massive equigranular quartz-biotite-hornblende diorite.

There are several small exposures of xenolithic diorite and quartz monzonite located in the vicinity of L6E to L7E, 7+50S. The xenoliths are mainly foliated amphibolized mafic metavolcanics ranging up to 25 cm in length, set in a medium grained equigranular reddish-grey ground mass. This rock type is also exposed on the shore of the lake in the vicinity of L6E, 5S. It is not known

whether these rocks are related to the main plutonic body to the south.

MAFIC INTRUSIVES

The westward extension of a large gabbroic mass which butts up against the north side of the Horwood Peninsula Pluton extends onto the property from the east. This mafic intrusive body extends a great deal further onto the property than was previously known, and, in fact, could possibly extend underneath the main cedar swamp to link up with a similar smaller plug which is exposed on an island and the shore of Horwood Lake at the western end of the property. Another large mass of gabbro occurs near the southern boundary of the claim group. It exhibits an elongate east-west shape with dimensions approximately 200 m x 800 m. There are numerous other smaller gabbroic plugs exposed randomly throughout the property, and altogether, this rock type underlies 30% (or more) of the total area of the claims.

These gabbros are generally medium-grained, but commonly occur in any grain size, ranging from coarse to very fine. Because the very fine-grained textures are easily mistaken for coarse-grained amphibolized volcanic flows, it is sometimes difficult to determine exact contact between these two lithologies.

Although examples of dark colored hornblende and pyroxene gabbros can be found, the overwhelming majority of these rocks are high in feldspar content. These feldspathic gabbros have a distinct diabasic texture and could easily be referred to as diabase if they were dykes.

It is interesting to note here that these feldspathic gabbros are distinctly similar to those which host the ore veins in the Orofino deposit, located in the same metavolcanic complex approximately 12 km to the southwest, in Silk Township.

"The ore host rock is typically a dark greenish-black (fresh surface) medium grained massive metagabbro. In relatively unaltered specimens, a metadiabasic texture is clearly discernible with slender to stumpy, haphazardly oriented plagioclase laths (40-50%) enclosing hornblende and lesser amounts of biotite, magnetite and pyrite. Adjacent to quartz veins, the metagabbro is often chloritized with a finer-grained, softer dark green appearance, probably related to hydrothermal alteration during emplacement of these veins." ***

It is also interesting to note here that there is a generalized trend towards finer-grained phases of the gabbro towards the north end of the main gabbroic body. This also fits the Orofino model of quartz veins being associated with the fine grained gabbros because it is in the north end of the body that the gold bearing quartz veins are found.

INTERMEDIATE-FELSIC METAVOLCANICS

Rocks of dacitic/rhyolitic composition are found in five isolated locations throughout the property. They are pale green to dark grey, usually porphyritic (quartz and/or feldspar) with an extremely fine-grained ground mass exhibiting concoidal fracture. There are a few good exposures of felsic tuffs and breccias on Blueberry Island and the peninsula opposite the island to the east. The beds are thin (less than 5 m) and cannot be traced along strike. Altogether, these rocks make up less than 1% of the total exposure on the property.

VOLCANOGENIC METASEDIMENTS

There are a few thin chert horizons which host some of the north-west trending quartz veins on the property. These grade quickly into mafic volcanics and cross-cut the regional stratigraphy. Because of this, the author tends to think of these units as local intense silicification related to the hydrothermal event which emplaced the quartz veins - rather than as true metasediments. No other examples of metasediments were located on the property.

FELSIC INTRUSIVE (HYPABYSSAL) ROCKS

There are several examples of grey fine-grained feldspar porphyry on the property. They are poorly exposed and thus it is difficult to determine whether they are dykes or not, or even whether they are true feldspar porphyries rather that felsic porphyritic flows. An example of the ambiguity of these rocks is the exposure which is associated with gold bearing quartz veins located at L6E, 3+50S. This unit has been described as a grey siliceous feldspar porphyry in the past, however because of the rounded phenocrysts, it is the opinion of this writer that they are actually amygdules in felsic flows.

(b) Structure

Although there has been a strong secondary foliation/lineation imprinted on the rocks, there is enough primary bedding information from flow contacts, pillow lavas and some lappilli tuffs to confirm that at least locally (within the property boundaries), this foliation generally conforms to the initial strike of the bedding - that being uniformly 70-90% with steep northerly dips.

"Based upon numerous lava flow-top determinations it appears that a macroscopic (regional) anticlinal fold exists in Horwood Township, with its axial plane trace trending northeast between East March Island and the

northwestern shoreline of Horwood Peninsula."**** It is inferred that this anticline passes through the middle of the property in a northeasterly direction. Not enough flow-top information was observed to confirm this hypothesis.

There is no evidence of any regional faulting in the vicinity of the property, however, there appears to be some indication of local faulting. Foliation and shearing is fairly common in the mafic volcanics along the north shore of Horwood Peninsula within the claim group. These shear zones are concordant with the strike of the bedding, are generally narrow and contain 5-10% disseminated sulphide. Of greater interest is a tendency for discordant mineralized quartz veining to occur in association with north-west trending sulphide shear zones in different parts of the property. This is probably the single most important trend which has been noticed that will help in directing ongoing exploration for gold on the property.

MINERALIZATION

Sulphide minneralization occurs as minor disseminations throughout the mafic volcanic and mafic intrusive lithologies on the property. Concentration of these sulphides occurs commonly within narrow concordant shear zones in the mafic volcanics, especially towards the north end of the group. The rocks in these shear zones are altered to chlorite schists, sericite schists, and phyllitic

/graphitic units with 20-30% disseminated pyrite, pyrrhotite, chalcopyrite and massive pyrite veins. These shear zones are associated with negative gold values.

There are several examples of north-west trending discordant sulphide shears and associated sulphide-gold mineralized quartz carbonate veins on the property. These occur in mafic volcanic as well as gabbroic host environments. In both rock types, the rocks immediately enclosing the quartz carbonate veins are metamorphosed chlorite-sericite-carbonate-sulphide schists. Locally they are cherty, possibly due to silicification associated with hydrothermal activity. Lesser amounts of chalcopyrite, sphalerite, pyrrhotite and arsenopyrite are also present. Both the quartz carbonate veins and the associated mineralized shear zones are generally narrow, but the quartz veins have been observed to swell to as much as 1-2 meters in diameter, and the mineralized schists have been measured as wide as 10 meters and possibly more. The mineralized quartz veins are relatively low in sulphides - generally less than 10%. Sulphide mineralization in the schist ranges from 10% up to massive veining. High concentrations of gold up to 30,000 ppb are found in the quartz vein material and in associated chlorite schists hosting quartz-carbonate veinlets.

Most of these mineralized quartz veins are exposed by an extensive system of trenches and pits located on the

property. Location and description of these trench systems are as follows:

Trench System "A"

These trenches and pits are located in the vicinity of 6+50E,, 8+50S. They explore a thick (more than 10 m) sequence of mafic volcanics altered to chlorite-sericite-carbonate schists with pyrite, sphalerite, chalcopyrite and hematite. Total sulphide content in the schist approached 30% in veins and disseminations, including 0.5% copper (S38, 39) Gold values were moderately anomalous, up to 435 parts per billion (ppb) (S49). Within the schist is a thick (1-2 m) north-west trending quartz vein with minor (less than 1%) py., cpy. Gold values from the quartz vein were erratic, up to 2800 ppb (S19). A total of twenty samples were assayed from the trenches (S19-22, and S35-50). Most of the trenches were long (50 m) and shallow in overburden, but one main pit measured 5 m x 5 m x 2 m deep. The samples were taken from this pit.

Trench System "B" (Lefever Showing)

This trench system is located at 12+25E, 5N. It consists of one small pit in overburden, and one trench. The trench trends north-north-east, across the strike of the mineralized zone. It measures 1.5 m x 1.5 m x 18 m long. It is mostly in overburden with a three meter wide outcrop on the west side of the trench exposing a mineralized

section about 1.5 meters wide. The host rock is massive mafic volcanic which grades into chlorite schist with abundant carbonate and 5-10% py. Within the schist are two narrow (10-20 cm) north-west trending quartz carbonate veins with 5-10% py, several quart-carbonate veinlets and one narrow massive pyrite vein (10 cm). A total of eleven samples were taken here,(S24-30, S80-85). The schist assayed up to 100 ppb; the quartz veins up to 3100 ppb.

Trench System "C" L6E, 3+75S

An extensive amount of stripping and trenching has been carried out between lines 6 and 7E, 3+50 to 4+50S. At least two parallel quartz veins are exposed, each up to 15 cm in diameter. The veins run parallel in a northwest-southeast direction, about 20 m apart. They are hosted by a variety of rock types, including gabbro, pillowed andesites, porphyritic felsic flows (feldspar amygdules, chlorite phenocrysts) or silicified mafic flows. The veins contain semi-massive py, cpy and assay up to 25,000 ppb Au., 3600 ppb Cu.,, 4.5 ppm Ag. Immediately enclosing the quartz is a chert horizon which the writer believes to be a highly silicified mafic volcanic. Most of the trenches strike northwest-southeast, and expose the veins along strike for about sixty meters. Six samples were taken, (S5, S76-80).

Trench System "D" Location 9+15E, 6S

One small pit (2 m x 2 m x 1 m deep) exposes a dark coloured intermediate volcanic with 10% disseminated pyrite, chalcopyrite. One sample was taken (S 13) which ran 120 ppb Au.

Trench System "E" L6E, 7+50S

This is a series of narrow, shallow pits and trenches located on the south tie-line between 4+50E and 7E. These are mainly in overburden but outcrop is found in the trench at 7E. There appears to be a sheared contact between a fine-grained felsite dyke to the south and mafic volcanics to the north. The volcanics have been metamorphosed into a chlorite schist with sericite, graphite, pyrite (20% disseminated) and hematite. There is a thin (10 cm) quartz vein at the contact. None of the four (S71-74) samples taken here yielded anomalous Au values. The chlorite schist here is identical to the chlorite schist host in Trench System "A", located 100 meters to the south.

Trench System "F" L14E, 0+50N

The trench strikes east-west and measures 1 m x 1 m x 20 m long and is accompanied by two small pits dug in overburden. Outcrop is however, exposed in several places in the trench. The rock is a fine-grained gabbro, with a few pyrite veins and blebs (5%). No quartz veining was located. Two grab samples of gabbro with 5% pyrite blebs returned assays of nil Au (S90-91)

Trench System "G" Location 15E, 3N

This group of trenches consists of two small trenches (1 m x 1 m x 25 m) and two small pits (1 m x 1 m x 1 m). One of the trenches exposes gabbro outcrop with a narrow (0.5 meter) mineralized zone striking approximately 120°. The mineralized gabbro is heavily carbonated, with 20% disseminated pyrite, pyrrhotite, up to massive veining. No quartz veining was observed in outcrop, but several samples taken from the adjacent dump pile include quartz-carbonate material with massive py, po. Seven samples were assayed from this occurrence (S64-70). A massive pyrite vein from outcrop (1 cm diameter) assayed 6000 ppb Au. The quartz-carbonate-sulphide float grab samples assayed up to 3250 ppb Au.

Trench System "H" (Stack Vein) L4N, 13+20E

The mineralized zone is exposed along the edge of a gabbro outcrop ridge which drops off into a cedar swamp. It is two meters wide, consisting of one main quartz vein approximately 20 cm wide in chlorite-carbonate-sulphide schists altered from the gabbro country rocks. Intermittently poor exposure over a distance of about 20 meters indicates the possibility of swelling of the vein to wider widths. The vein and associated mineralized zone strikes southeast -northwest, and is open in both directions due to overburden cover. Pyrite mineralization ranges from

30% disseminated up to massive. Of the seven grab samples taken from the dump, five contained highly anomalous gold values up to 30,000 ppb. Three of these samples are described as quartz-carbonate, and one sample (S-105) is described as a chlorite schist with massive pyrite stringers and 10% quartz-carbonate stringers. This sample contained the highest concentration of gold. Also it is interesting to note that a chip sample across 33 cm of a similarly described chlorite schist returned the same high gold content - 30,000 ppb (S98), A total of twelve samples were taken here (S96-107).

There is one highly anomalous gold occurrence on the property which is not associated with earlier trenching. Sample S63 is described as a small quartz lense with massive pyrite in gabbro. The sample was taken at 15+15E, 2+15N, and yielded 6000 ppb Au.

CONCLUSIONS & RECOMMENDATIONS

It is especially important to note the linear correlation of three gold bearing trench systems (systems "B", "G" and "H" as well as sample S63 taken from a small quartz-sulphide lense in gabbro. All four of these gold showings are north-west trending quartz veins in north-west trending shear zones. They are along strike from one another, and together represent what could possibly be a continuous mineralized shear zone extending from 12E, 5N to 15E, 2N, a length of at least 500 meters. Due to the pinching and swelling nature of the exposed mineralized zones on the property and the fact that this gold bearing zone of weakness is poorly exposed because of overburden cover there is little reason not to believe that the zone could widen along strike, or with depth, or that there might be other parallel mineralized zones or stock works in the immediate vicinity.

Based on this information I am recommending that additional grid lines be cut at 12+50E, 13+50E, 14+50E, 15+50E, 16+50E, 17+50E, 18+50E and 19+50E; each to be extended from 2+00S to 5+00N. These lines will adequately cover the areas of outcrop in the immediate vicinity of the main gold-bearing zone. This expanded grid will greatly facilitate detailed mapping and prospecting as well as geophysical and/or geochemical surveys, if necessary.

Further, it is recommended that power stripping be carried out between trench systems "H" and "G", and sample S63 to see if the shear zones can be joined up and/or widened.

Respectfully submitted,

R. Hodgson
Geologist

2.7660

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CERTIFICATION

I Rand Hodgson, of 43 St. Olaves Rd., Toronto, Ontario, do hereby certify that:

1) I hold a Bachelor of Science degree in Geology from the University of Waterloo, Waterloo, Ontario (1977).

2) I have based conclusions and recommendations contained in this report on knowledge gained from ten years experience in Northern Ontario gold exploration, and on results of field work on the property.

3) I hold no interest, directly or indirectly in this property, nor do I expect to receive any interest in the property, or in Pelangio-Larder Mines Limited, or any of its subsidiary companies.

Rand Hodgson, B.Sc.

APPENDIX

CLAIM SCHEDULE

CLAIM NUMBERS	WORK DUE
P-798703	August 31, 1987
P-798704	"
P-798705	"
P-798708	"
P-798709	"
P-901361	"
P-901362	"
P-901363	"
P-901364	"
P-901425	"
P-901426	"
P-901427	"
P-901428	"
P-901429	"
P-901430	"
P-948951	October 01, 1987
P-938779	October 21, 1987
P-955138	March 15, 1988
P-955556	"
P-955557	"
P-955558	"
P-955559	"
P-955560	"
P-955561	"
P-955562	"

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Certificate of GEOCHEM

Company:M. HIBBARD File:72-709/R
Project: Date:JULY 23,
Attention:M. HIBBARD/R. HODGSON Type:ROCK GEO

We hereby certify the following results for samples submitted.

Sample Number	AU-WET PPB
RH1	120
RH3	15
RH4	30
RH5	370
RH6	5
RH7	10
RH8	5
RH9	5
RH10	5
RH11	20
RH12	10
RH13	120
RH14	5
RH15	5
RH16	15
RH18	90

Certified by

MIN-EN LABORATORIES LTD.

**** Certificate of GEOCHEM ****

Company:M. HIBBARD
Project:
Attention:M. HIBBARD

File:72-7
Date:JULY
Type:ROCK

We hereby certify the following results for samples submitted.

Sample Number	AU-FIRE PPB
RH-17	3
1420	270
1421	10
1422	2
1423	8
1424	20
1425	2
1426	132
1427	28
1428	1400
1429	1
1430	111
1431	2
1432	1
1433	4
1434	5
1419	2800

Certified by _____

MIN-EN LABORATORIES LTD

MIN-EN LABORATORIES LTD.
Specialists in Mineral Environments
705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524 TELEX: V

Certificate of GEOCHEM

Company: M. HIBBARD
Project:
Attention: M. HIBBARD

File: 72-
Date: AUG
Type: ROC

We hereby certify the following results for samples submitted.

Sample Number	CU PM	ZN PPM	AG PPM	AU-FIRE PPB
1435	120	60	1.0	17
1436	940	56	1.8	20
1437	1550	62	1.6	25
1438	5100	42	2.5	153
1439	5000	48	3.6	45
1440	280	65	1.0	45
1441	124	58	1.2	330
1442	50	37	0.4	20
1443	20	12	0.2	12
1444	24	21	0.3	15
1445	41	17	0.3	24
1446			0.2	33
1447			0.6	34
1448			1.0	74
1449			1.0	435
1450			1.0	8
1451				2
1452				1
1453				2
1454				1
1455				4
1456				2
1457				1
1458				1
1459				4
1460				3
1461				2
1462				1

Certified by

MIN-EN LABORATORIES

**** Certificate of GEOCHEM ****

Company:M. HIBBARD
Project
Attention:M. HIBBARD

File:72-
Date:AUG
Type:ROC

We hereby certify the following results for samples submitted.

Sample Number	CU PPM	AG PPM	AU-FIRE PPB
1463			5500
1464			6000
1465			46
1466			18
1467			3250
1468			4
1469			123
1470			125
1471			19
1472			3
1473	"		"30
1474			12
1475			14
1476	3600	4.5	11500
1477			7000
1478			25000
1479			7000
1480			3800
1481			23
1482			3100
1483			15
1484			330
1485			87
1486			9
1487			61
1488			125
1489			23
1490			3
1491			2
1492			7

Certified by _____

MIN-EN LABORATORIES

**** Certificate of GEOCHEM ****

Company:M.HIBBARD
Project:
Attention:M.HIBBARD/R.HODGSON

File:72-7
Date:AUGU
Type:ROCK

We hereby certify the following results for samples submitted.

Sample Number	AU-FIRE PPB	
1493	4	
1494	3	
1495	6	
1496	5	
1497	3000	
1498	30000	
1499	40	
1500	15	
1501	14	
1502	43	
1503	9600	
1504	12500	
1505	30000	
1506	245	
1507	4500	
1508	7	

*SOME OF THESE SAMPLES SHOULD HAVE BEEN REQUESTED FOR ASSAY.

Certified by _____

MIN-EN LABORATORIES

PELANGIO-BAVRIDGE JOINT VENTURE

HORWOOD LAKE PROPERTY

SAMPLE LOCATIONS & DESCRIPTIONS

SAMPLE #	LOCATION - DESCRIPTION
S1	small island north of "main" showing- gossan -py. with serecite in locally heavily sheared mafic pillow lava.
S2	no assay.
S3	north shoreline between 1 east and 2 east - serecite schist with semi-massive py., mafic lappilli tuff host rock.
S4	south side of "main" showing island - rusty shear zone in breccia in deformed pillow lavas py., cpy.
S5	6E, 4S - quartz vein from Trench system "D" (Hibbard showing) near north-west end.
S6	8E, 3+50S - quartz-feldspan crystal tuff-grey, hard, vitreous matrix, 5% py.
S7	3E, 2N - mafic flow, 10% disseminated py.
S8	3E, 3+75N - mafic flow with py. blebs.
S9	2+50E, 7N at lakefront - white, barren bull quartz - 2' thick vein.
S10	7E, 4+50S - quartz vein with minor sulfides - (pit).
S11	7E, 4+50S - pit at south-east end of vein system "D" - chert host rock - no sulfides.
S12	7+75E, 5S - dacitic flow, grey, 10% py.
S13	9E, 6S - hard, fine-grained (silicified) andesite, 10% disseminated py. cpy.
S14	12E, 2+75S - discarded drill core & drill site - andesitic, fine-grained, massive, no sulfides.
S15	12E, 2+75S - very old small sized (Winkie drill) drill core- soft, fine-grained light colored highly weathered rock - probably weathered mafic volcanic.
S16	12E, 2+75S - gossan - mafic volcanic with semi-massive py.
S17	13E, 7+50S - narrow (½m) north-south trending shear zone - 10 - 15% disseminated py. with quartz veinlets in mafics.
S18	13E, 7+50S - same as S17. This area appears to have been hydrothermally active - abundant sulfide lenses and quartz veining.

SAMPLE #	LOCATION - DESCRIPTION
S19	6+50E, 9+50S - Trench system "A" - quartz vein grab sample from large pit - serecite, carbonate, py, cpy.
S20	6+50E, 9+50S - Trench system "A" - altered mafic volcanic (chlorite schist) with hemolite, py., cpy., carb., sph.
S21	6+50E, 9+50S - same as S20.
S22	same as S20.
S23	6E, 8+25S - Trench system "A" - mafic volcanic, po., - contact with fine-grained felsite (dyke?).
S24	12+25E, 4+75N - Trench "B" (Lefeve showing) - channel sample - 40 cm across narrow quartz veins in mafic volcanics, carbonate, 5 - 10% py.
S25	same as S24.
S26	same as S24.
S27	same as S24.
S28	12+25E, 4+75N - Trench "B" - pure quartz-vein samples.
S29	12+25E, 4+75N - 32 cm channel sample of mafic host rock located 1 m south-west across strike from S23 - semi-massive py., cpy.
S30	12+25E, 4+75N - Trench "B" - massive py. vein (3 cm wide) in mafic host rock.
S31	15+75E, 17+75S - diorite (plutonic) with carbonate.
S32	15+50E, 0+00N - gabbro, fine-grained, 5% py., po.
S33	16E, 0+40S - fine-grained gabbro, 25% disseminated py.
S34	16E, 4S - rusty shear zone in coarse-grained basalt.
S35 to S49	6+50E, 9+50S - big pit from trench system "A" Channel sample across 4.5 meters of pit, each sample approximately 30 cm long. Rocks sampled are mafic volcanics altered to chlorite schists, with quartz veinlets abundant throughout, with carbonate, py., cpy., sph., hem.
S50	same as S49 but 3 meters across strike to the north-east.

SAMPLE #	-	LOCATION - DESCRIPTION
S51	-	17+75E, 2+75S - felsic dyke minor py.
S52	-	17+75E, 2+75S - Q.V. at contact between mafic flow (S53) and felsic dyke (S51).
S53	-	17+75E, 2+75S - silicified (cherty) mafic volcanic.
S54	-	17+25E, 0+50S - mafic volcanic with 15% py. blebs.
S55	-	18E, 1+25S - mafic flow contact with felsite dyke - 10% disseminated py., po.
S56	-	19E, 2+50N - gossan in gabbro - 20% disseminated py.
S57	-	17E, 6+75N - mafic flow - 10% fine disseminated py. - contact with felsic dyke.
S58	-	20E, 3+25N - bull qtz - no sulfides - in fine-grained gabbroic intrusive with greater than average feldspars.
S59	-	fine-grained intermediate rock with strong mag.
S60	-	11E, 1S - fine-grained hornblende gabbro with 10% disseminated py.
S61	-	10+25E, 0+25N - 10% disseminated py. po., in mafic volcanic at cross-over, conductor "C".
S62	-	same as S61.
S63	-	15+15E, 2+15N - samll quartz lens with semi-massive py. in gabbro.
S64 to S70	-	15E, 3+50N - Trench system "G" - quartz veining (1-3 cm wide) and sulfiae veining (2 cm wide) striking eastwest with vertical dip. Host rock - gabbro with py., po., abundant carbonate.
S64	-	massive py. vein with quartz.
S65	-	gabbro with 20% disseminated sulfide - just north of py vein.
S66	-	coarse grained hornblende gabbro - (1 m south of py vein) - 20% cubic py.
S67	-	quartz vein float from dump - massive py.
S68	-	quartz, gabbro, carbonate float from dump.

SAMPLE #	LOCATION - DESCRIPTION
S69	quartz vein float - massive py. po. - from bottom of pit.
S70	same as S69.
S71 to S74	7+40S, 6+50E -pit from Trench system "E" on south tie line between lines 6 and 7E. Sheared contact between fine-grained felsite dyke to the south and mafic volcanics to the north. Mafic volcanics altered to chlorite-graphite-hematite schist with minor carbonate, serecite, 20% disseminated py.
S71	quartz vein at contact - minor py.
S72	altered mafic schist - 20% disseminated py.
S73	same as S72.
S74	felsite with chlorite stringers.
S75	7+10E, 4+10S - fine-grained grey dyke rock with py. cubes.
S76	3+75S, 6+50E - Trench system "C" - south-east end.
S77	same as S76.
S78	same as S77.
S79	6+15E, 3+30S - Q.V. (3-5 cm) in cherty rock (silicified basalt) with semi-massive cpy.
S80	6E, 3+75S - quartz vein with cpy. in silicified mafic volcanic.
S81	6E, 7+80N - lake edge - shear zone with py., 1 m wide in mafic volcanics.
S82	12E, 5N - Trench system "B" - quartz vein with py. (2 inches).
S83	12E, 5N - Trench system "B" - fine-grained, hard silicified mafic host rock.
S84	12E, 5N - Trench system "B" - 2 inches thick quartz vein with py.
S85	12E, 5N - Trench system "B" - 1 inch thick massive py vein.
S86	north-east corner Blueberry Island - disseminated sulfide and quartz in felsic flow.
S87	north-west corner of island south of claim 955560 - sulfide pads in mafic volcanics, diorites, mafic and felsic dykes.

SAMPLE # - LOCATION - DESCRIPTION

S88 - same as S87.

S89 - south-west corner of same island as S87. Diorite gossan-large py. cubes.

S90 - 14E, 0+50N - Trench system "F" trench is 20 m long, 1 m wide, 1 m deep - strike - east-west. Fine-grained gabbro with minor py. veins and blebs - no quartz.

S91 - same as S90.

S92 - 15E, 5+50N - small gossan in mafic pillowed lava, py., po.

S93 - 12E, 9+25N - lake front - intermediate mylonitic (granular) rock from fracture zone - 20% fine disseminated pyrite, lineated chlorite crystals.

S94 - 12E, 9+25N - quartz vein from fracture zone mentioned in S93

S95 - 12E, 9+25N - dacitic volcanic flow - 20% disseminated py.

S96 to S101 - 13+50E, 3+80N - Trench system "H" - (Stack vein) - 2 meter channel sample (33 cm per sample) across mineralized zone consisting of gabbros with carbonate, sulfide stringers, one quartz vein measuring 20 cm across, numerous narrow quartz carbonate veinlets. H

S102 - 13+50E, 3+80N - Trench system "H" - granula quartz carbonate from dump.

S103 - 13+50E, 3+80N - Trench system "H" - quartz float.

S104 - same as S103

S105 - 13+50E, 3+80N - Trench system "H" - chlorite schist.

S106 - 13+40E, 3+90N - gabbro with 30% disseminated pyrite in contact with S107 to the north.

S107 - 13+40E, 3+90N - quartz vein from mineralized zone - 10 meters north-west along strike from area of channel sample.

S108 - 13+50E, 2+50N - gabbro with anomalous pyrite veins.

GUY THIBAULT
EXPLORATION SERVICES
Suite 22, Hollinger Building - P.O. Box 1670 Timmins, Ontario. P4N-7W8-(705)264-2977

REPORT ON A GROUND MAGNETIC AND ELECTROMAGNETIC SURVEY FOR BAYRIDGE-PELANGIO JOINT VENTURE BLUEBERRY ISLAND GOLD PROPERTY HORWOOD TOWNSHIP ONTARIO

Timmins, Ontario
September, 1987

Kenneth Guy
Geologist

TABLE OF CONTENTS

FIGURES

SUMMARY and RECOMMENDATIONS

The ground geophysical program has successfully located and defined a number of anomalies. Thirteen VLF-EM anomalies are recommended as high priority follow-up targets.

The magnetic survey successfully delineated a number of anomalies including some attributed to diabase dikes, iron formation and ultramafic volcanics.

The ground geophysical program should greatly aid during geological mapping and assist in stratigraphic correlation of the project area.

The following recommendations are made for the project area:

1) A detailed geological survey should be conducted concurrent with intensive prospecting.
Many of the magnetic and VLF-EM responses indicate a near-surface expression.

2) A reconnaissance geochemical survey be conducted over the gold occurrences and the eastern portion of the property. This may aid in anomaly discrimination.

3) A reconnaissance Induced Polarization (IP) survey be conducted over some of the VLF-EM anomalies as well as in the vicinity of the gold occurrences.

INTRODUCTION

During the period June through August, 1987, a combined Very Low Frequency Electromagnetic (VLF-EM) and magnetic survey was carried out over the Bayridge-Pelangio Joint Venture property in Horwood Township, Ontario.

The purpose of the VLF-EM survey was to detect, on the ground, zones of conductivity which may be produced by conductive minerals and/or zones of shearing or faulting. The magnetic was performed to determine if any magnetic correlation exists with apparent conductivity and to aid in stratigraphic correlation.

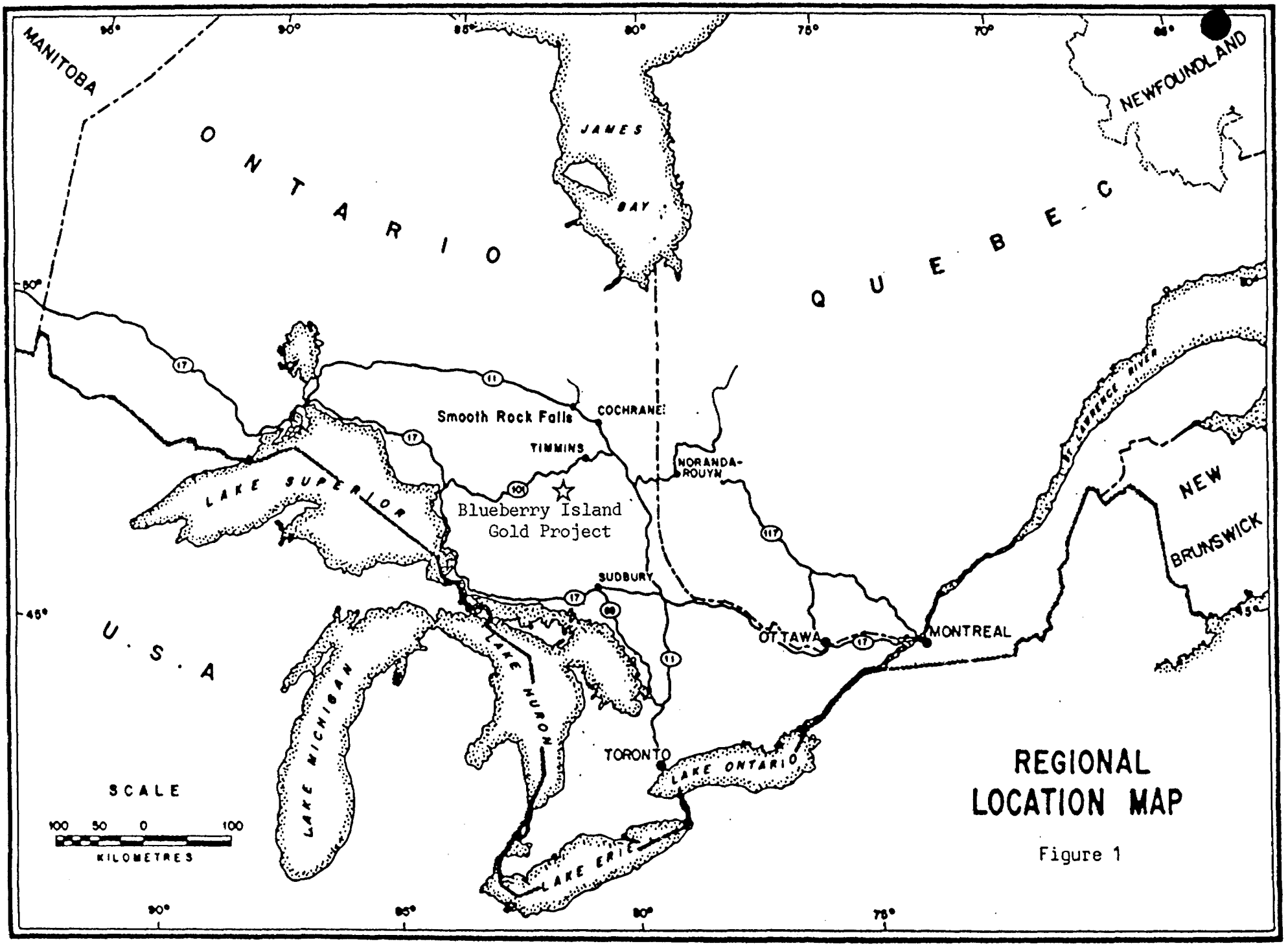
The property encompasses a number of gold occurrences hosted by carbonatized volcanic rocks.

LOCATION and ACCESS

The Blueberry Island Gold Property is located in central Horwood Township, Porcupine Mining Division, Ontario. The property lies approximately 70 miles southwest of Timmins, Ontario (Figure 1).

Access to the property is via Highway 616, south off Highway 101, to the northeast shore of Horwood Lake (Figure 2). Transportation by boat is then necessary to the claim group which straddles the shore of Horwood Lake.

Air transportation, helicopter or fixed wing, is also available in Timmins


MANITOBA
ONTARIO
JAMES BAY
QUEBEC
NEWFOUNDLAND
Smooth Rock Falls
COCHRANE
TIMMINS
HORANDA-ROUYN
Blueberry Island Gold Project
LAKE SUPERIOR
SUDBURY
OTTAWA
MONTREAL
ST. LAWRENCE RIVER
NEW BRUNSWICK
U.S.A.
LAKE MICHIGAN
LAKE HURON
TORONTO
LAKE ONTARIO
LAKE ERIE
SCALE
100 50 0 100
KILOMETRES
REGIONAL LOCATION MAP
Figure 1

PROPERTY

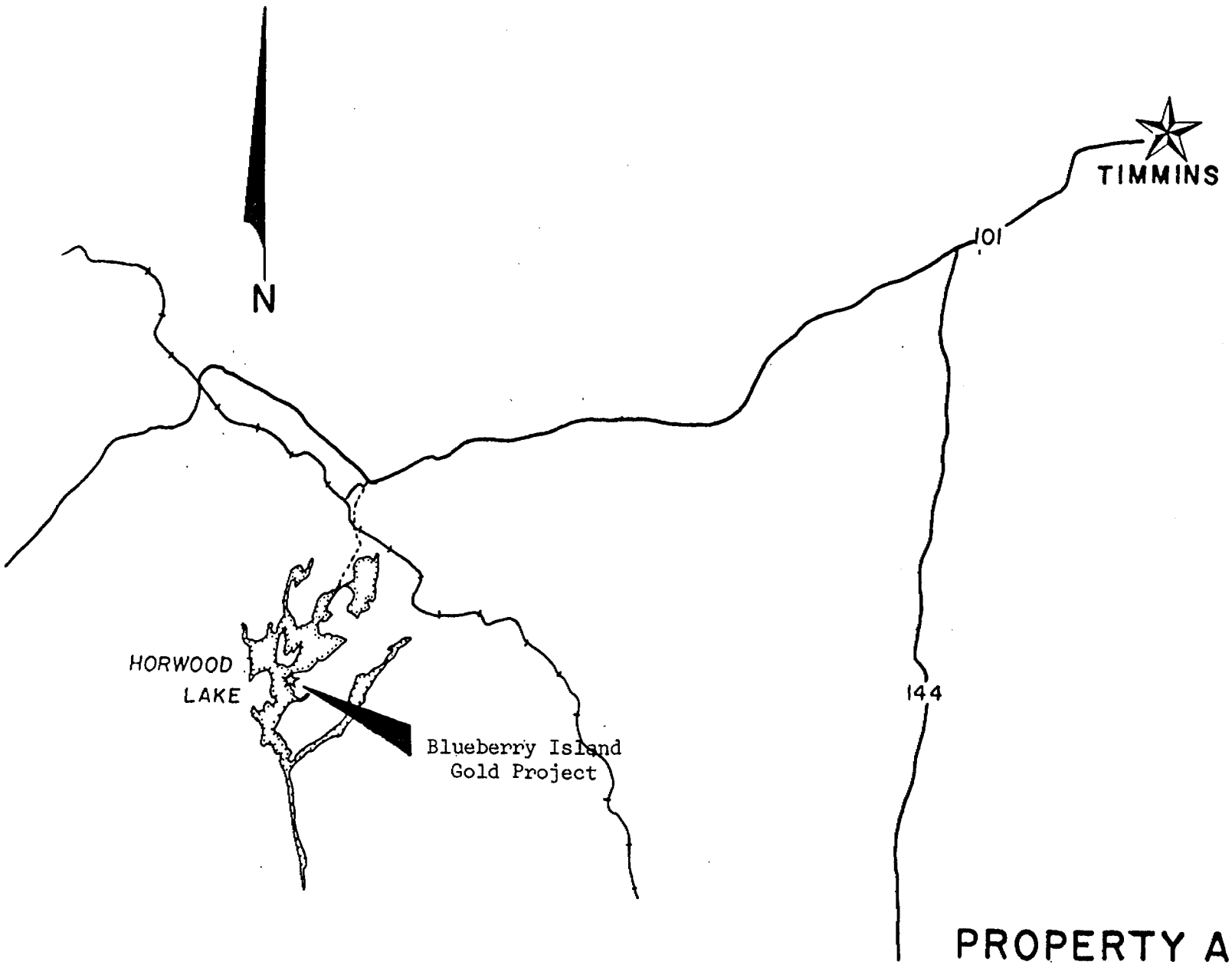
The Blueberry Island Gold Property consists of 31 contiguous, unpatented mining claims in Horwood Township. The survey covered in whole or in part 24 claims; the remainder of the property is covered by water.

The following claims were covered in whole or in part by the combined surveys:

798704, 798705
798708, 798709
901361, 901364 inclusive
901426, 901430 inclusive
938779
948951
955138
955559, 955560
995955 - 995960 inclusive - 24 claims

The claims covered by water are:

798703
901425
955556 - 955558 inclusive
955561, 955562 - 7 claims



PROPERTY ACCESS MAP

Scale: 1:500 000

Figure 2

3-A

PREVIOUS WORK

1949 - 1959 - J. E. Lefever - 32 DDH's - 0.56 oz Au/ton over 10 feet, sludge sample assayed 7.8 oz Au/ton.

1960 - Kerr Addison Mines Ltd. - magnetic survey, 7 DDH's, 3,076 feet, over the main showing - drilling indicated an auriferous zone 500 feet long by 4 feet wide with an average assay value of 0.204 oz Au/ton hosted in a sheared diorite - occurrence is a gold and sulphide-bearing, quartz-carbonate vein system.

- 3 DDH's on the Stack vein, 0.67 oz Au/ton over 1 inch

1972 - Noranda Exploration Company Limited - magnetic and VEM surveys.

1980 - Ingamar Explorations Limited - magnetic and VLF-EM surveys.

1982 - Raise Contracting - geological survey, stripping and trenching encountered gold values.

1986 - Pelangio-Larder Mines Ltd. - VLF-EM survey.

GEOLOGY

The Blueberry Island Gold Property lies within the northeast portion of the Swayze greenstone belt. The Swayze greenstone belt is a typical Superior Province, Archean age greenstone belt consisting of predominately mafic volcanics with lesser felsic to intermediate volcanics. Intercalated tuffs and sediments are also present. The volcanic sequence is intruded by mafic to felsic intrusive rocks.

LINECUTTING

During the period June, July, 1987, a total of 36.1 kilometers of line were cut on the property. The base line and tie line were cut at Az 090° (E-W) with section lines every 100 metres off the BL. Picket stations were established every 25 metres on both section lines and BL/TL.

SURVEY EQUIPMENT and PROCEDURES

The Very Low Frequency - Electromagnetic (VLF-EM) survey was carried out using a Geonics EM16, operating at a frequency of 24.0 KHz utilizing the Cutler, Maine (NAA) transmission station. Readings of both In Phase (IP) and Quadrature (OP) were taken every 25 metres, with an accuracy of 1% on both.

A total of 32.6 km of line were surveyed by Mike Tremblay of Timmins during August, 1987.

The data is presented as profiles on the VLF-EM plan map, Figure 3.

SURVEY EQUIPMENT AND PROCEDURES (Cont'd)

The Magnetic survey was conducted with a Scintrex MP-2 total field magnetometer. Readings were taken every 25 metres along section lines, base line and tie line. The intersection of the section lines on the base line served as base stations so that diurnal drift could be monitored. This method allows readings to be taken and corrected with an accuracy of one gamma.

A total of 36.1 kilometers of line were surveyed by Mike Caron of Timmins during August 1987.

DISCUSSION OF RESULTS

The VLF-EM survey detected 32 anomalies. The VLF-EM anomaly summary table summarizes the anomalies and rates their priority for follow-up. The anomalies break down into the following priorities:

HIGH - 13 - additional ground follow-up recommended, good conductivity with corresponding magnetics or structure, possible contact zones, shear zones.

MODERATE - 14 - additional follow-up is contingent upon results from high priority anomalies.

LOW - 5 - no follow-up recommended - likely surficial or overburden response.

The magnetic survey delineated a number of anomalies.

A diabase dike trends a NE crossing the BL at 15E and another crossing at 11E on a similar trend.

DISCUSSION OF RESULTS (Cont'd)

A broad slight magnetic high, 400 gammas above background, trends east-west from LO to L12E at 550 N. This may be a dioritic unit.

The magnetic intensity in the SE corner of the property is very intense with narrow highs and lows, including dipole effects. This is probably caused by iron formation in a sedimentary environment or ultramafic volcanics.

VLF - EM ANOMALY SUMMARY

ANOMALY	LENGTH (m)	IP	OP	PEAK TO PEAK(m)	CONDUCTIVITY	DEPTH	MAGNETICS	COMMENTS
A	300	+40,-35	x-over	75	good	shallow	none	high priority
B	600	+63,-30	x-over	75	good	shallow	none	high priority
C	300	+ 8,-14	x-over	25	good	shallow	none	trends off property to E - moderate priority
D	300,100	+ 9,- 8	x-over	25	good	shallow	local high	trends off property to E - moderate priority
E	200,200	+40,-16	x-over	50	excellent	shallow	slight low	high priority - cross cutting stratigraphy - shear zone L18E
F	300	+29,-44	x-over	50	excellent	shallow	x-cutting	high priority - shear zone? D.D. L16E
G	200	+10,-19	x-over	25	good	shallow	slight low	moderate priority
H	450	+45,-25	x-over	50	excellent	shallow	flanking high	high priority - contact zone D.D. L18E
I	300	+21,-33	+ slope	50	good	shallow	flanking high	moderate priority - trending off property to E
J	300	?	flat	125+	poor	?	none	low priority - probable superficial
K	300	?	x-over	?	moderate	moderate	flat	moderate priority - 2 proximal conductors
L	250	+10,-56	x-over	50	good	moderate	slight low	high priority
M	200	?	x-over	?	weak	?	flanking high	low priority
N	400	+65,-60	reverse x-over	100	moderate	?	x-cutting	moderate priority - possible shear zone
O	300	+25,- 8	x-over	25	good	shallow	none	moderate priority - parallel to N
P	300	+ 4,-23	slight x-over	50	moderate	shallow	x-cutting	low priority - possible superficial

cont'd.....

VLF - EM ANOMALY SUMMARY

ANOMALY	LENGTH (m)	IP	OP	PEAK to PEAK(m)	CONDUCTIVITY	DEPTH	MAGNETICS	COMMENTS
Q	400	+ 4,-28	x-over	50	good	shallow	high	high priority - D.D. L15E on lobe of diabase
R	600	+40,-27	variable	50	poor-good	variable	flanks high	high priority - on contact or parallel to diabase
S	200	+23,- 3	reverse x-over	150	poor	?	flat	low priority - surficial response
T	400	?	flat	?	poor	?	low	low priority - probable surficial
U	100	+80,- 8	x-over	50	good	shallow	high	moderate priority
V	600	+33,-35	x-over	50	good	variable	flanking high	high priority, contact or shear zone, D.D. L11E
W	300	+37,-50	x-over	50	excellent	shallow	flanking high	high priority, contingent on V
X	700	+25,-11	x-over	50	good	moderate	flanking high	high priority
Y	300	+ 3,-22	variable	50	weak	moderate	flanking high	moderate priority
Z	100	0 ,-15	x-over	25	weak	moderate	flat	moderate priority
A1	100	+13,-41	x-over	50	good	shallow	flanking high	high priority, contingent on X
B1	100	+19,- 9	x-over	25	good	shallow	flanking high	high priority
C1	500	+14,- 8	reverse x-over	50	poor	?	x-cutting	fault zone? - moderate priority
D1	400	-13,-70	?	50	?	?	flat	contingent on geology - moderate
E1	300	+20,+ 4	x-over	25	poor	?	high	contingent on geology - moderate
F1	100+	- 5,-43	x-over	25	moderate	?	flat	further work necessary to west - moderate

CERTIFICATE

I, the undersigned, Kenneth Guy, residing at 180 Nadine Street, South Porcupine, Ontario graduated with a Bachelor of Science degree in Earth Science - Geology from the University of Waterloo, Waterloo, Ontario in 1978.

I have been employed in the field of Geology since graduation in 1978.

I am a Fellow of the Geological Association of Canada.

I do not hold, nor do I expect to receive an interest of any kind in these claims held by Bayridge-Pelangio Joint Venture or in any other mining claims they may have.

The interpretations and conclusions are based on my experience with the Davidson-Broulan Project, Getty-Davidson Tisdale Joint Venture and other properties in the Timmins area.

2.5778

Kenneth Guy
Geologist

GEOLOGICAL ASSOCIATION OF CANADA
K. W. GUY
FELLOW

Timmins, Ontario

Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

#2281

The Mining Act

42B01SE0045 2.10441 HORWOOD

900

Type of Survey(s)	Township or Area
ELECTROMAGNETIC SURVEY	HORWOOD TWP.
Claim Holder(s)	**Prospector's Licence No.**
PELANGIO-LARDER MINES LIMITED	T-971
Address	
P.O. Box 1456, Timmins, Ontario P4N 7N2	
Survey Company	**Date of Survey (from & to)** / **Total Miles of line Cut**
GUY THIBAULT EXPLORATION SERVICES	09 Day / 07 Mo. / 87 Yr. / 15 Day / 08 Mo. / 87 Yr. — 6 miles
Name and Address of Author (of Geo-Technical report)	
KENNETH GUY, 180 NADINE STREET, SOUTH PORCUPINE, ONTARIO	

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	40
	Geophysical - Magnetometer	20
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

RECEIVED
SEP 14 1987
MINING LANDS SECTION

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	995955	
	995956	
	995957	
	995958	
	995959	
	995960	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECORDED
SEP 23 1987

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

RECEIVED
SEP 22 1987
MINING LANDS SECTION

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work: 6

For Office Use Only		
Total Days Cr. Recorded: 360	Date Recorded: Sept 23/87	Mining Recorder: Stanley
	Date Approved as Recorded	Branch Director

Date	Recorded Holder or Agent (Signature)
September 18/87	Agent

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

Agent, MAURICE HIBBARD, CEDAR HILL, CONNAUGHT, ONTARIO P0N 1A0

Date Certified	Certified by (Signature)
Sept. 18/87	

Ministry of Northern Development and Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

#193/87

Oct. 17

Mining Act 2.10441

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s): GEOLOGICAL, VLF. EM., MAGNETOMETER, LINE-CUTTING	Township or Area: HORWOOD TWP.
Claim Holder(s): PELANGIO-LARDER MINES. LTD.	Prospector's Licence No.: P1344
Address: BOX 1456, TIMMINS, Ont. P4N 7K2	
Survey Company	Date of Survey (from & to): 09 07 87 (Day Mo. Yr.) 15 08 87 (Day Mo. Yr.)
	Total Miles of line Cut: 25
Name and Address of Author (of Geo-Technical report): RAND HODGSON, 43 ST. OLAVES RD. TOR. M6S 3N5	

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	20
	Geophysical - Magnetometer	20
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	40
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

RECEIVED
PORCUPINE MINING DIVISION
AUG 26 1987
PORCUPINE

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date: Aug 26/87 Recorded Holder or Agent (Signature):

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	798703	
P	798704	
P	798705	
P	798708	
P	798709	
P	901361	
P	901362	
P	901363	
P	901364	
P	901425	
P	901426	
P	901427	
P	901428	
P	901429	
P	901430	
P	948951	
P	935776	
P	955135	
P	955556	
P	955557	
P	955558	
P	955559	
P	955560	
P	955561	
P	955562	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECORDED
AUG 26 1987
MINING LANDS SECTION

RECEIVED
AUG 21 1987
MINING LANDS SECTION

Total number of mining claims covered by this report of work: 25

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
2000	Aug 26/87	
	Date Approved as Recorded	Branch Director

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: RAND HODGSON 43 ST. OLAVES RD. TORONTO M6S 3N5

Date Certified: AUG. 26/87 Certified by (Signature):

1362 (85/12)

Ministry of Northern Development Mines
Ontario

Technical Assessment Work Credits

File: 2.10441

Date: October 30, 1987

Mining Recorder's Report of Work No.: 228

Recorded Holder: Pelangio-Larder Mines Limited

Township or ~~Area~~: Horwood Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic 40 days	P 995959-960 inclusive
Magnetometer 20 days	
Radiometric ____ days	
Induced polarization ____ days	
Other ____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological ____ days	
Geochemical ____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

30 Days Electromagnetic and 15 Days Magnetometer
P 995958

20 Days Electromagnetic and 10 Days Magnetometer
P 995956-957 inclusive

10 Days Electromagnetic and 5 Days Magnetometer
P 995955

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Ministry of Northern Development Mines
Ontario

Technical Assessment Work Credits

File: 2.10441

Date: October 30, 1987

Mining Recorder's Report of Work No.: 193

Recorded Holder: Pelangio-Larder Mines Limited

Township or Area: Horwood Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days	P 798704-705 inclusive
Magnetometer _____ days	P 901361-364
Radiometric _____ days	P 901427-430 inclusive
Induced polarization _____ days	P 948951
Other _____ days	P 938779
Section 77 (19) See "Mining Claims Assessed" column	P 955138
Geological 40 days	P 955559
Geochemical _____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

30 Days Geological	20 Days Geological	10 Days Geological
P 798708-709 inclusive	P 798703	P 901425
P 901426		P 955556
		P 955558
		P 955560

No credits have been allowed for the following mining claims

☒ not sufficiently covered by the survey ☐ insufficient technical data filed

P 955557
P 955561-62 inclusive

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Ministry of Northern Development Mines
Ontario

Technical Assessment Work Credits

File: 2.10441

Date: October 30, 1987

Mining Recorder's Report of Work No.: 193

Recorded Holder: Pelangio-Larder Mines Ltd.

Township or Area: Horwood Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	P 798704-705 inclusive P.901361-364 inclusive P.901427-430 inclusive P.948951 P.938779 P.955138
Electromagnetic _____ days	
Magnetometer 20 days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days ☐ Airborne ☐	
Special provision ☐ Ground ☐	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

15 Days Magnetometer

P 798708-709 inclusive
P 901426
P 955559

5 Days Magnetometer

P 955560

No credits have been allowed for the following mining claims

☒ not sufficiently covered by the survey ☐ insufficient technical data filed

P 798703
P 901425
P 955556-558 inclusive
P 955561-562 inclusive

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Ministry of Northern Development Mines
Ontario

Technical Assessment Work Credits

File: 2.10441

Date: October 30, 1987

Mining Recorder's Report of Work No.: 193

Recorded Holder: Pelangio-Larder Mines Ltd.

Township or Area: Horwood Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	P 798704-705 inclusive P 901361-364 inclusive P 901427-430 inclusive P 948951 P 938779 P 955138 P 955559
Electromagnetic 20 days	
Magnetometer ____ days	
Radiometric ____ days	
Induced polarization ____ days	
Other ____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological ____ days	
Geochemical ____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

15 Days Electromagnetic
P 798708-709
P 901426

5 Days Electromagnetic
P 955560

No credits have been allowed for the following mining claims

☒ not sufficiently covered by the survey ☐ insufficient technical data filed

P 798703
P 901425
P 955556-558 inclusive
P 955561-562 inclusive

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

November 17, 1987

Your File: 193,228
Our File: 2.10441

Mining Recorder
Ministry of Northern Development and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: Notice of Intent dated October 30, 1987
Geophysical (Electromagnetic and Magnetometer) and
Geological Surveys on Mining Claims P 798704 et al
in Horwood Township

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W.R. Cowan, Manager
Mining Lands Section
Mines and Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

RM:pl
Enclosure: Technical Assessment Work Credits

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

Resident Geologist
Timmins, Ontario

Pelangio-Larder Mines Ltd.
Box 1456
Timmins, Ontario
P4N 7N2

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY

S.R.O. – SURFACE RIGHTS ONLY

M.+ S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
(R1) SEC. 35/80	W. 2/82	(re-opened N.R.O. 3/82)		
(R2) BLO 14901	NRO 22/85	JUNE 7/85	MR + SR RE-OPENED JUNE 17/85 7:00 A.M.	

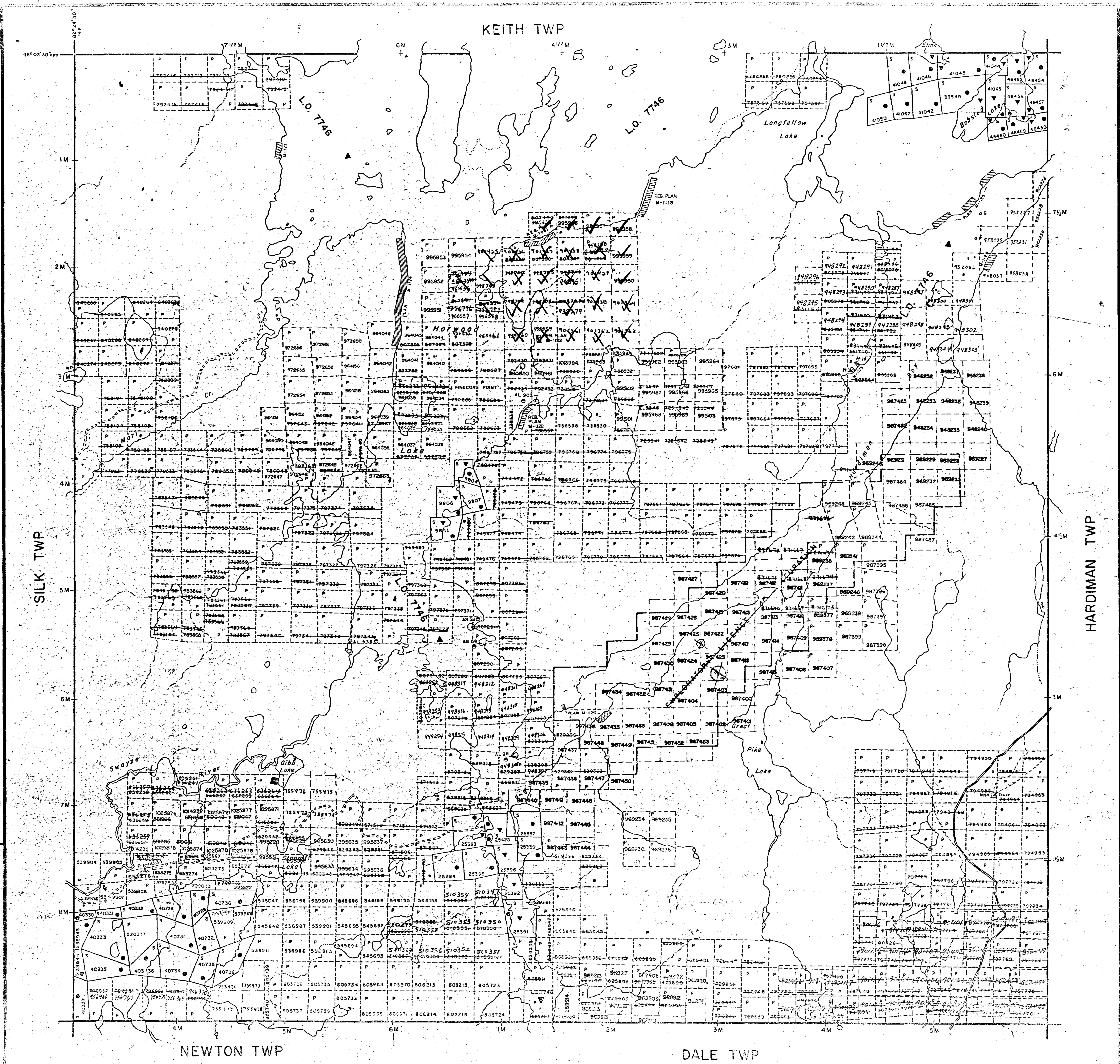
L.U.P.

FLOODING

FLOODING RIGHTS ON HORWOOD LAKE & HARDIMAN BAY TO CONTOUR ELEV. 1117 FEET ARE RESERVED TO THE SPRUCE FALLS POWER AND PAPER CO. LTD. File: 75166 L.O. 7746

429015E0045 2.18441 HORWOOD

200



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 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 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 (1 KM) 2000 (2 KM)

RECEIVED OCT 28 1987

TOWNSHIP

HORWOOD

M.N.R. ADMINISTRATIVE DISTRICT

CHAPLEAU

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

SUDBURY

Ministry of Natural Resources — Land Management Branch

Ontario

Date: MARCH 1985

Number: G-3228

LEGEND

NTERMEDIATE PLUTONIC ROCKS

NTRUSIVE ROCKS

feldspar porphyry

MAFIC INTRUSIVE ROCKS

TRUSIVE ROCKS

EDIMENTS

NTERMEDIATE METAVOLCANICS

tuff + agglomerate
stic breccia
litic and/or vesicular flows
ritic flow

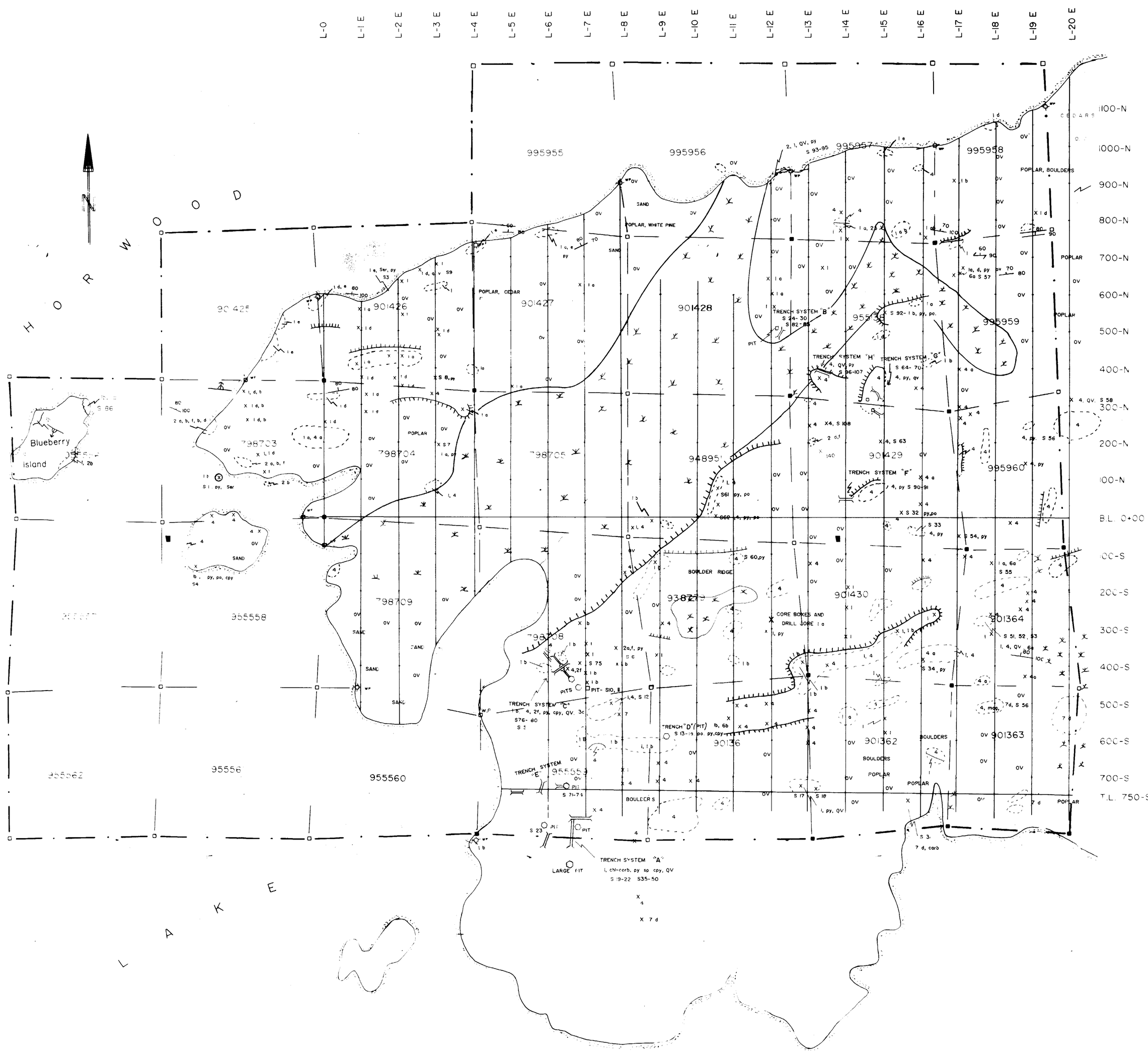
NTERMEDIATE METAVOLCANICS

flows
ed flows
schist

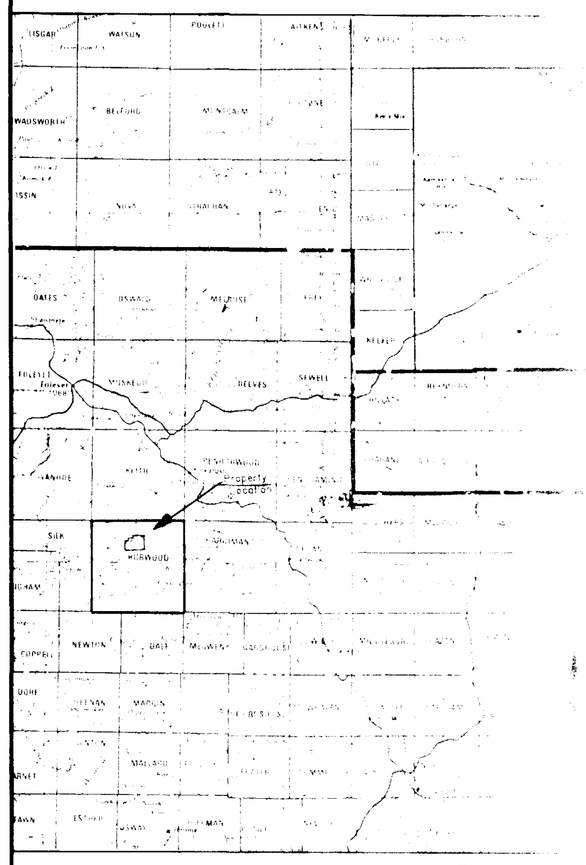
tuff and agglomerate
rbonized volcanics rocks

SYMBOLS

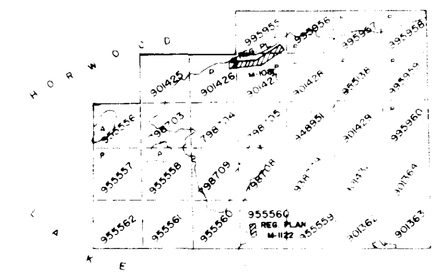
Overburden
Trench
Pit
Prospect
Ridge or Cliff
Outcrop
Bedding strike + Dip
Foliation strike + Dip
Drillholes
Drillholes with facts indicated
Sample Locations
Gold
Chalcopyrite
Magnetite
Nickel
Pyrrhotite
Sphalerite
Tellurium
Sericite



PROPERTY LOCATION MAP



CLAIM LOCATION



TOPOGRAPHY

- Trail portage
- Bush road
- Good driving road, highway
- Rail road
- Claim post located
- Claim post assumed location
- Witness post
- Creek, River
- Lake shore
- Swamp, Bog
- Property boundry line

2.18441

GEOLOGY COMPILATION

BLUEBERRY ISLAND GOLD PROPERTY

HORWOOD TWP ONTARIO
PORCUPINE MINING DIVISION

BAYRIDGE-PELANGIO JOINT VENTURE

GEOLOGY: RAND HODGESON	DATE of SURVEY: August 1987
Drafting by: *Guy Thibault Exploration Services* Drawn by: E. St-Amant Date: Aug. 1987	SCALE: 1:500

LOCATION MAP

CLAIM LOCATION

TOPOGRAPHIC

- Trail portage
- Bush road
- Good driving road, Highway
- Rail road
- Claim post located
- Claim post assumed location
- Witness post
- Creek, River
- Lake shore
- Swamp, Bog
- Property boundary line

1200-N
1100-N
1000-N
900-N
800-N
700-N
600-N
500-N
400-N
300-N
200-N
100-N
B.L. 0+00
100-S
200-S
300-S
400-S

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L- 6 E
L- 5 E
L- 4E
L- 3 E
L- 2 E
L- 1E
L- 0
L- 1 W
L- 2 W
L- 3 W
L- 4 W
L- 5 W
L- 6 W
L- 7 W
L- 8 W


LOCATION MAP
TIMMINS
CLAIM LOCATION
HORWOOD
TOPOGRAPHIC
Trail portage
Bush road
Good driving road, Highway
Rail road
Claim post located
Claim post assumed location
Witness post
Creek, River
Lake shore
Swamp, Bog
Property boundry line
V.L.F.- E.M SURVEY
H O R W O O D
N
BLUEBERRY ISLAND
ISLAND
995955
995956
995957
995958
995959
995960
995964
901425
901426
901427
901428
901429
901430
798703
798705
798706
798709
955556
955557
955558
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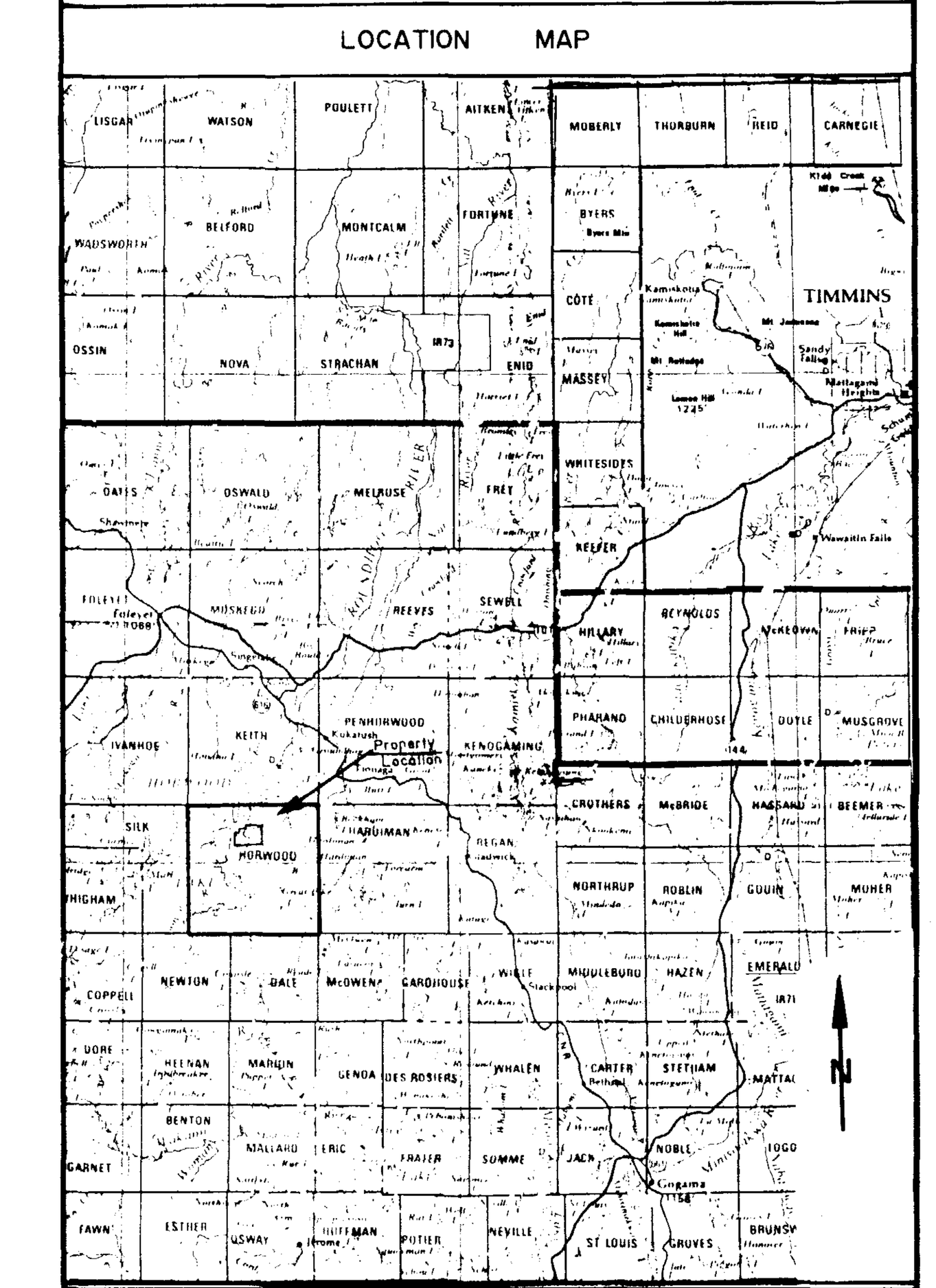
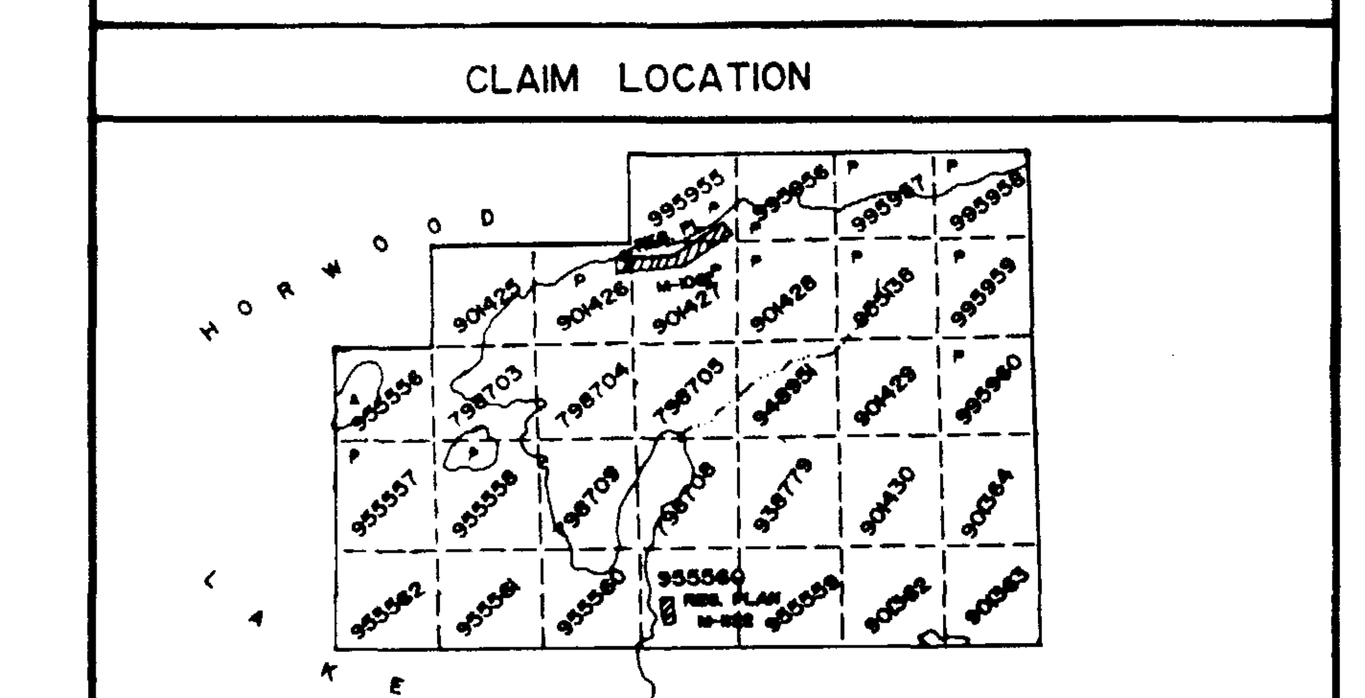
700-N
600-N
500-N
400-N
300-N
200-N
100-N
B.L 0+00
100-S
200-S
300-S
400-S





TOPOGRAPHIC

- Trail portage
- Bush road
- Good driving road, Highway
- Rail road
- Claim post located
- Claim post assumed location
- Witness post
- Creek, River
- Lake shore
- Swamp, Bog
- Property boundry line

MAGNETIC SURVEY

Add 58,000 Gammas to all readings for total field values

1000 / 500 Contours — Contour intervals: 500 GAMMAS

Depression Contour

Base Station Location BL 0+00/ L- 0 58,799

2.10441

Fault

GEOLOGICAL ASSOCIATION OF CANADA — K. W. GUY — FELLOW

BLUEBERRY ISLAND GOLD PROPERTY

HORWOOD TWP ONTARIO
PORCUPINE MINING DIVISION

BAYRIDGE-PELANGIO JOINT VENTURE

Survey by: *Guy Thibault Exploration Services*
Operators: M. Caron D. Crowley

Instrument: Scintrex Proton MP-2	Date of Survey: August 1987
Drafted by: M. Caron E. St-Amant	SCALE: 1:2500

220

CLAIM LOCATION

TOPOGRAPHIC

- - - - Trail portage
= = = = Bush road
Good driving road, Highway
Rail road
Claim post located
Claim post assumed location
Witness post
Creek, River
Lake shore
Swamp, Bog
Property boundry line

V.L.F.- E.M SURVEY

2.10441

BLUEBERRY ISLAND GOLD PROPERTY

HORWOOD TWP ONTARIO
PORCUPINE MINING DIVISION

BAYRIDGE-PELANGIO JOINT VENTURE

Survey by: *Guy Thibault Exploration Services*
Operators: M. Tremblay

Instrument: Geonics EM - 16	Date of Survey: August 1987
Drafted by: M. Caron G. THIBAULT	SCALE: Vertical: 1cm= 10% Horizontal: 1:2500

230

GUY THIBAU
EXPLORATION SERVICES
Suite 22, Hollinger Building - P.O. Box 1670 Timmins, Ontario. P4N-7W8-(705)264-2977

REPORT ON A GROUND MAGNETIC AND ELECTROMAGNETIC SURVEY FOR BAYRIDGE-PELANGIO JOINT VENTURE BLUEBERRY ISLAND GOLD PROPERTY HORWOOD TOWNSHIP ONTARIO

Timmins, Ontario
September, 1987

Kenneth Guy
Geologist

TABLE OF C(

FIGURES

SUMMARY and RECOMMENDATIONS

The ground geophysical program has successfully located and defined a number of anomalies. Thirteen VLF-EM anomalies are recommended as high priority follow-up targets.

The magnetic survey successfully delineated a number of anomalies including some attributed to diabase dikes, iron formation and ultramafic volcanics.

The ground geophysical program should greatly aid during geological mapping and assist in stratigraphic correlation of the project area.

The following recommendations are made for the project area:

1) A detailed geological survey should be conducted concurrent with intensive prospecting.
Many of the magnetic and VLF-EM responses indicate a near-surface expression.

2) A reconnaissance geochemical survey be conducted over the gold occurrences and the eastern portion of the property. This may aid in anomaly discrimination.

3) A reconnaissance Induced Polarization (IP) survey be conducted over some of the VLF-EM anomalies as well as in the vicinity of the gold occurrences.

INTRODUCTION

During the period June through August, 1987, a combined Very Low Frequency Electromagnetic (VLF-EM) and magnetic survey was carried out over the Bayridge-Pelangio Joint Venture property in Horwood Township, Ontario.

The purpose of the VLF-EM survey was to detect, on the ground, zones of conductivity which may be produced by conductive minerals and/or zones of shearing or faulting. The magnetic was performed to determine if any magnetic correlation exists with apparent conductivity and to aid in stratigraphic correlation.

The property encompasses a number of gold occurrences hosted by carbonatized volcanic rocks.

LOCATION and ACCESS

The Blueberry Island Gold Property is located in central Horwood Township, Porcupine Mining Division, Ontario. The property lies approximately 70 miles southwest of Timmins, Ontario (Figure 1).

Access to the property is via Highway 616, south off Highway 101, to the northeast shore of Horwood Lake (Figure 2). Transportation by boat is then necessary to the claim group which straddles the shore of Horwood Lake.

Air transportation, helicopter or fixed wing, is also available in Timmins

PROPERTY

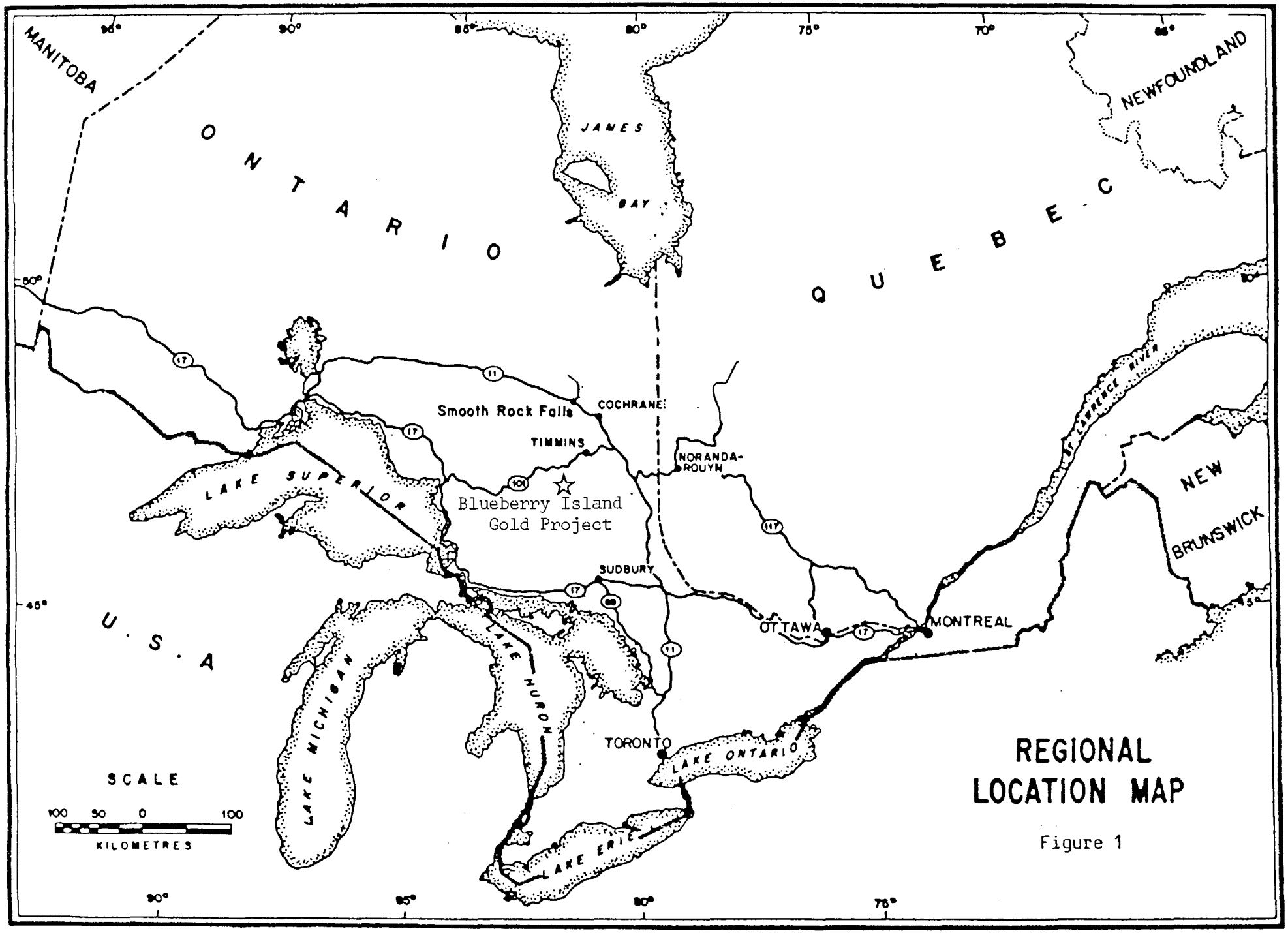
The Blueberry Island Gold Property consists of 31 contiguous, unpatented mining claims in Horwood Township. The survey covered in whole or in part 24 claims; the remainder of the property is covered by water.

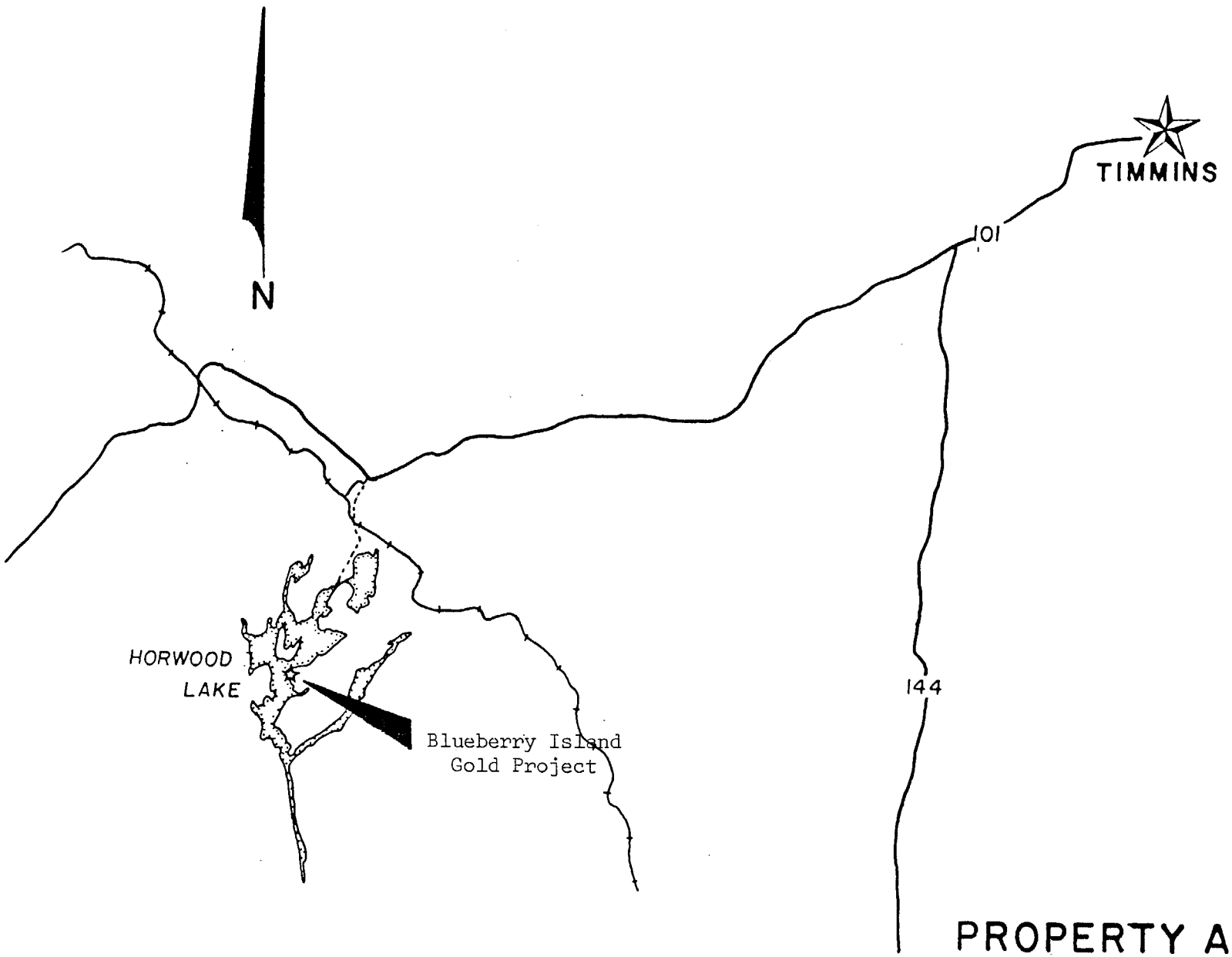
The following claims were covered in whole or in part by the combined surveys:

798704, 798705
798708, 798709
901361, 901364 inclusive
901426, 901430 inclusive
938779
948951
955138
955559, 955560
995955 - 995960 inclusive - 24 claims

The claims covered by water are:

798703
901425
955556 - 955558 inclusive
955561, 955562 - 7 claims


MANITOBA
ONTARIO
QUEBEC
JAMES BAY
NEWFOUNDLAND
Smooth Rock Falls
COCHRANE
TIMMINS
NORANDA-ROUYN
Blueberry Island
Gold Project
LAKE SUPERIOR
SUDBURY
OTTAWA
MONTREAL
ST. LAWRENCE RIVER
NEW BRUNSWICK
U.S.A
LAKE MICHIGAN
LAKE HURON
TORONTO
LAKE ONTARIO
LAKE ERIE
SCALE
100 50 0 100
KILOMETRES
REGIONAL LOCATION MAP
Figure 1



PROPERTY ACCESS MAP

Scale: 1:500 000

Figure 2

3-A

PREVIOUS WORK

1949 - 1959 - J. E. Lefever - 32 DDH's - 0.56 oz Au/ton over 10 feet, sludge sample assayed 7.8 oz Au/ton.

1960 - Kerr Addison Mines Ltd. - magnetic survey, 7 DDH's, 3,076 feet, over the main showing - drilling indicated an auriferous zone 500 feet long by 4 feet wide with an average assay value of 0.204 oz Au/ton hosted in a sheared diorite - occurrence is a gold and sulphide-bearing, quartz-carbonate vein system.

- 3 DDH's on the Stack vein, 0.67 oz Au/ton over 1 inch

1972 - Noranda Exploration Company Limited - magnetic and VEM surveys.

1980 - Ingamar Explorations Limited - magnetic and VLF-EM surveys.

1982 - Raise Contracting - geological survey, stripping and trenching encountered gold values.

1986 - Pelangio-Larder Mines Ltd. - VLF-EM survey.

GEOLOGY

The Blueberry Island Gold Property lies within the northeast portion of the Swayze greenstone belt. The Swayze greenstone belt is a typical Superior Province, Archean age greenstone belt consisting of predominately mafic volcanics with lesser felsic to intermediate volcanics. Intercalated tuffs and sediments are also present. The volcanic sequence is intruded by mafic to felsic intrusive rocks.

LINECUTTING

During the period June, July, 1987, a total of 36.1 kilometers of line were cut on the property. The base line and tie line were cut at Az 090° (E-W) with section lines every 100 metres off the BL. Picket stations were established every 25 metres on both section lines and BL/TL.

SURVEY EQUIPMENT and PROCEDURES

The Very Low Frequency - Electromagnetic (VLF-EM) survey was carried out using a Geonics EM16, operating at a frequency of 24.0 KHz utilizing the Cutler, Maine (NAA) transmission station. Readings of both In Phase (IP) and Quadrature (OP) were taken every 25 metres, with an accuracy of 1% on both.

A total of 32.6 km of line were surveyed by Mike Tremblay of Timmins during August, 1987.

The data is presented as profiles on the VLF-EM plan map, Figure 3.

SURVEY EQUIPMENT AND PROCEDURES (Cont'd)

The Magnetic survey was conducted with a Scintrex MP-2 total field magnetometer. Readings were taken every 25 metres along section lines, base line and tie line. The intersection of the section lines on the base line served as base stations so that diurnal drift could be monitored. This method allows readings to be taken and corrected with an accuracy of one gamma.

A total of 36.1 kilometers of line were surveyed by Mike Caron of Timmins during August 1987.

DISCUSSION OF RESULTS

The VLF-EM survey detected 32 anomalies. The VLF-EM anomaly summary table summarizes the anomalies and rates their priority for follow-up. The anomalies break down into the following priorities:

HIGH - 13 - additional ground follow-up recommended, good conductivity with corresponding magnetics or structure, possible contact zones, shear zones.

MODERATE - 14 - additional follow-up is contingent upon results from high priority anomalies.

LOW - 5 - no follow-up recommended - likely surficial or overburden response.

The magnetic survey delineated a number of anomalies.

A diabase dike trends a NE crossing the BL at 15E and another crossing at 11E on a similar trend.

DISCUSSION OF RESULTS (Cont'd)

A broad slight magnetic high, 400 gammas above background, trends east-west from LO to L12E at 550 N. This may be a dioritic unit.

The magnetic intensity in the SE corner of the property is very intense with narrow highs and lows, including dipole effects. This is probably caused by iron formation in a sedimentary environment or ultramafic volcanics.

VLF - EM ANOMALY SUMMARY

ANOMALY	LENGTH (m)	IP	OP	PEAK TO PEAK(m)	CONDUCTIVITY	DEPTH	MAGNETICS	COMMENTS
A	300	+40,-35	x-over	75	good	shallow	none	high priority
B	600	+63,-30	x-over	75	good	shallow	none	high priority
C	300	+ 8,-14	x-over	25	good	shallow	none	trends off property to E - moderate priority
D	300,100	+ 9,- 8	x-over	25	good	shallow	local high	trends off property to E - moderate priority
E	200,200	+40,-16	x-over	50	excellent	shallow	slight low	high priority - cross cutting stratigraphy - shear zone L18E
F	300	+29,-44	x-over	50	excellent	shallow	x-cutting	high priority - shear zone? D.D. L16E
G	200	+10,-19	x-over	25	good	shallow	slight low	moderate priority
H	450	+45,-25	x-over	50	excellent	shallow	flanking high	high priority - contact zone D.D. L18E
I	300	+21,-33	+ slope	50	good	shallow	flanking high	moderate priority - trending off property to E
J	300	?	flat	125+	poor	?	none	low priority - probable superficial
K	300	?	x-over	?	moderate	moderate	flat	moderate priority - 2 proximal conductors
L	250	+10,-56	x-over	50	good	moderate	slight low	high priority
M	200	?	x-over	?	weak	?	flanking high	low priority
N	400	+65,-60	reverse x-over	100	moderate	?	x-cutting	moderate priority - possible shear zone
O	300	+25,- 8	x-over	25	good	shallow	none	moderate priority - parallel to N
P	300	+ 4,-23	slight x-over	50	moderate	shallow	x-cutting	low priority - possible superficial

cont'd.....

VLF - EM ANOMALY SUMMARY

ANOMALY	LENGTH (m)	IP	OP	PEAK to PEAK(m)	CONDUCTIVITY	DEPTH	MAGNETICS	COMMENTS
Q	400	+ 4,-28	x-over	50	good	shallow	high	high priority - D.D. L15E on lobe of diabase
R	600	+40,-27	variable	50	poor-good	variable	flanks high	high priority - on contact or parallel to diabase
S	200	+23,- 3	reverse x-over	150	poor	?	flat	low priority - surficial response
T	400	?	flat	?	poor	?	low	low priority - probable surficial
U	100	+80,- 8	x-over	50	good	shallow	high	moderate priority
V	600	+33,-35	x-over	50	good	variable	flanking high	high priority, contact or shear zone, D.D. L11E
W	300	+37,-50	x-over	50	excellent	shallow	flanking high	high priority, contingent on V
X	700	+25,-11	x-over	50	good	moderate	flanking high	high priority
Y	300	+ 3,-22	variable	50	weak	moderate	flanking high	moderate priority
Z	100	0 ,-15	x-over	25	weak	moderate	flat	moderate priority
A1	100	+13,-41	x-over	50	good	shallow	flanking high	high priority, contingent on X
B1	100	+19,- 9	x-over	25	good	shallow	flanking high	high priority
C1	500	+14,- 8	reverse x-over	50	poor	?	x-cutting	fault zone? - moderate priority
D1	400	-13,-70	?	50	?	?	flat	contingent on geology - moderate
E1	300	+20,+ 4	x-over	25	poor	?	high	contingent on geology - moderate
F1	100+	- 5,-43	x-over	25	moderate	?	flat	further work necessary to west - moderate

CERTIFICATE

I, the undersigned, Kenneth Guy, residing at 180 Nadine Street, South Porcupine, Ontario graduated with a Bachelor of Science degree in Earth Science - Geology from the University of Waterloo, Waterloo, Ontario in 1978.

I have been employed in the field of Geology since graduation in 1978.

I am a Fellow of the Geological Association of Canada.

I do not hold, nor do I expect to receive an interest of any kind in these claims held by Bayridge-Pelangio Joint Venture or in any other mining claims they may have.

The interpretations and conclusions are based on my experience with the Davidson-Broulan Project, Getty-Davidson Tisdale Joint Venture and other properties in the Timmins area.

Kenneth Guy
Geologist

GEOLOGICAL ASSOCIATION OF CANADA
K. W. GUY
FELLOW

Timmins, Ontario