



42B01SE0037 30 HORWOOD

010

DIAMOND DRILLING

TOWNSHIP: HORWOOD TWP.

REPORT NO: 30

WORK PERFORMED FOR: Pelangio Larder Mines Ltd.

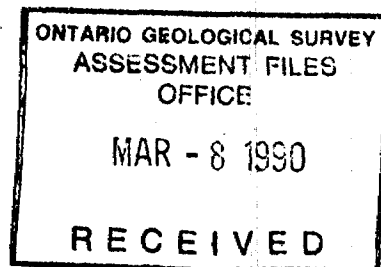
RECORDED HOLDER: SAME AS ABOVE (xx)

: OTHER ()

<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
P 798703	BP-1	588'	Mar/89	(1)
	BP-2	233'	Mar-Apr/89	(1)

NOTES: (1) #W9006.076, filed Mar/90

SUMMARY EXPLORATION REPORT
on the
BLUEBERRY ISLAND GOLD PROPERTY
HORWOOD TOWNSHIP, ONTARIO
Porcupine Mining Division
District of Sudbury
for
BAYRIDGE DEVELOPMENTS LTD.



K.H. Darke, P.Eng.
KENNETH H. DARKE CONSULTANTS LIMITED
April 30, 1989



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INTRODUCTION:

During the period March 12 - April 2, 1989 Bayridge Developments Ltd. completed a portion of a recommended preliminary exploration program on the Blueberry Island Gold Property located in the northern part of the Swayze Gold Belt approximately 54 airmiles southwest of the city of Timmins, Ontario. This work program was conducted under the terms of a joint venture agreement with Pelangio-Larder Mines Limited who are the owners of said property.

The purpose of the aforementioned "winter" exploration program was to further test known Gold Zone "A" and its possible strike extension to the west all of which are located beneath the water of Horwood Lake. Limited previous diamond drilling (1960) on this gold zone was confined to a 500-foot strike length. The most westerly located of these old drill holes averaged 0.35 oz. gold per ton across 2.4 ft. of the main gold-sulphide-bearing Exhalative Chert Horizon; other thinner ancillary gold-bearing quartz-carbonate veins are also present in the immediate area.

As part of the recent work program, a detailed Induced Polarization (I.P.) Survey was completed over a new Control Grid established on the ice of Horwood Lake. Purpose of this I.P. Survey was to further define a VLF-EM Conductive Horizon/Shear Zone that extends for 1,500 ft. along strike to the west of the area previously tested on Gold Zone "A". This I.P. Survey detected three roughly

parallel anomalous horizons that trend parallel to the strike of the local stratigraphy. The cause of these I.P. Anomalies is currently unknown.

The winter exploration program initially recommended was to consist primarily of extensive diamond drilling from sites located on the ice of Horwood Lake. Although originally scheduled to begin in January said drilling program was unexpectedly delayed and did not commence until Mar. 24, 1989. Because ice conditions on the lake rapidly deteriorated soon after the drill mobilization only two holes (DDH Nos. BP-1 & 2) were drilled.

DDH# BP-1, completed to its targeted depth of 588 feet, intersected 12 separate gold-sulphide-bearing quartz-carbonate stringer vein zones that ranged in width from 1.0 ft. to 5.5 feet. The best assay result was obtained from an one-foot section that averaged 0.525 oz. gold per ton. Three other separate one-foot core intervals averaged 0.145, 0.15 & 0.16 oz.Au/ton respectively. Another 1.2-foot section averaged 0.05 oz.Au/ton; and a separate 5.5-foot core interval averaged 0.04 oz.Au/ton. Anomalous gold values (0.01 to 0.03 oz.Au/ton) were found associated with six other thin quartz-carbonate stringer vein zones. No visible gold was noted in the drill core.

A series of holes originally scheduled to be drilled along the indicated strike of Gold Zone "A" under Horwood Lake up to 1,600 ft. west of DDH# BP-1 had to be cancelled because of poor ice conditions on the lake. A water-control dam situated on the outlet of Horwood Lake had been closed and the rising lake level caused fissures in the ice cover and open water in channels near the proposed drill setups.

In an effort to avoid unfavourable ice conditions a second hole (DDH# BP-2) was collared closer to shore but still on the lake ice at 200 metres (656 ft.) due east of DDH# BP-1. Unfortunately, because of shifting ice levels, DDH# BP-2 had to be stopped prematurely at 233 ft. before reaching its target area.

Although only a small part of the scheduled winter drilling program was completed, results obtained in DDH# BP-1 and from the I.P. Survey are considered to be geologically very encouraging. Therefore, it is hereby recommended that the possible strike extensions of Gold Zone "A" and numerous ancillary gold-bearing zones all located under Horwood Lake be tested by an extensive "winter" diamond drilling program to be commenced in January 1990.

A substantial "summer" exploration program to test for the possible easterly strike extension of Gold Zone "A" onto the land and to further evaluate two other known gold-bearing zones (Inlet & Stack Vein) on the Blueberry Island Property also is definitely warranted and is hereby recommended. This latter exploration program to be commenced at the earliest convenience.

PURPOSE & SCOPE:

The primary purpose of this report is to summarize results of the recently completed winter exploration program (limited Diamond Drilling/Sampling & Assaying; I.P. Survey) and to provide recommendations to the management of the Bayridge Developments/Pelangio Larder Mines Joint Venture.

The scope of this summary report will include a brief description of the geology & results of previous exploration conducted on the subject Blueberry Island Property; and will reiterate prior recommendations for extensive additional evaluation of the general area encompassing the Inlet & Stack Vein Gold Zones as well as other indicated exploration target areas.

PROPERTY DESCRIPTION:

The Blueberry Island Property consists of 39, contiguous, unpatented mining claims (40 acres per claim; total area of approximately 1,560 acres) that form an irregular-shaped block located in the north-central part of Horwood Township, Porcupine Mining Division, District of Sudbury, Ontario; and is further described as follows: ...

<u>Claim Nos.:</u>	<u>No. of Claims:</u>	<u>Date Recorded:</u>
P.798703-05 incl.	3	Feb. 19, 1985
P.798708 & 09	2	Feb. 19 1985
P.901361-64 incl.	4	June 3, 1986
P.901425-30	6	June 3, 1986
P.938779	1	Oct. 22, 1986
P.948951	1	Oct. 2, 1986
P.955138	1	Mar. 16, 1987
P.955556-62 incl.	7	Mar. 16, 1987
P.995950-61 incl.	12	Aug. 6, 1987
P.1013983 & 84	2	Aug. 6, 1987

39 claims

REGIONAL GEOLOGY:

All consolidated rocks in the Horwood Township Region, located in the northern part of the Swayze Gold Camp, are of Precambrian age ... they constitute part of the "Abitibi Greenstone Belt" of the Superior Structural Province of the Precambrian Shield that underlies much of northern Ontario and Quebec. Much of the bedrock in the region is masked by a cover of Pleistocene-age glacial-derived overburden, and by recent alder, cedar & muskeg swamps.

A complex assemblage of Mafic to Felsic Metavolcanics with associated Metasediments (Greenstone Belt) extends southwest from The Timmins Area through the Horwood Lake Region and on through the Swayze Gold Area. This highly folded volcanic-sedimentary sequence has been intruded locally by Quartz-feldspar porphyries, gabbro, peridotite & diorite. This aforementioned belt is bounded by large masses of syntectonic trondhjemitic gneiss and younger plutons of massive granodiorite. All these rocks are of Early Precambrian (Archean) age. Subsequently the whole area was intruded by diabase dike swarms of Early to Middle Precambrian age.

The regional geology can be generalized as consisting of a group of contemporaneous volcanic piles and related sediments all of which have been intensely folded, faulted, eroded, and intruded by rocks of mafic to felsic composition.

Geological mapping has indicated that the main rock types present on the Blueberry Island Property are Mafic to Intermediate Metavolcanics (flows, tuffs, breccia); with local areas of Metasediments and Mafic Intrusives (Metagabbro). A part of the Horwood Peninsula Pluton (Biotite-Hornblende-Quartz Diorite) underlies the extreme southeast corner of the property.

A regional anticlinal axis strikes @ N 30° E through the center of the property. A pervasive schistosity on the property varies from N 70° E to Due East.

PREVIOUS WORK:

The initial exploration conducted on the property consisted essentially of the local stripping & trenching of a number of gold showings detected by prospecting; geophysical surveys; and very limited diamond drilling. This initial work on the property is geologically encouraging since at least three gold-bearing zones were detected by the limited exploration undertaken. The three principal gold-bearing areas of interest were designated as the "Main Zone" (Gold Zone "A"); the "Inlet Zone"; and the "Stack Vein".

(a) Gold Zone "A":

Gold Zone "A" is located beneath the water of Horwood Lake on the southern part of Claim P.798703 and actually comprises a series of roughly parallel gold-bearing horizons intersected by diamond drilling.

During the period January-March, 1960 Kerr-Addison Gold Mines Ltd. completed seven diamond drill holes that tested a 500-foot strike length of this gold zone. Said drilling intersected 13 separate, thin, gold-bearing quartz-carbonate veins/cherty horizons that trend at approximately N 75° E to Due East which is parallel to the local stratigraphy. Said gold-bearing zones occur across a width of 250 feet. The higher grade gold values were found within quartz veins-cherty horizons that contain associated disseminated sulphide (Pyrrhotite, chalcopyrite, pyrite) mineralization.

The host rock for the gold-bearing horizons was logged (Kerr-Addison) as "Diorite" implying that it is an intrusive; however, it is not uniform in composition and at least one contact within said Diorite was noted. Regional Geological mapping and other considerations indicates that the said "Diorite" actually represents highly metamorphosed mafic to intermediate composition meta-volcanic flows & tuffs. Also, because of its apparent stratigraphic control the principal gold-sulphide-bearing siliceous/cherty horizon probably is not a quartz-carbonate vein as logged but actually represents a recrystallized exhalative chert horizon.

(b) Inlet Gold Zone:

The "Inlet Gold Zone" is located on Claim P.798708 and encompasses an area of trenches & pits (Trench System "C") scattered along a 530-foot strike length of narrow quartz veins that trend at N 37° W. Initial prospecting in the area exposed two, narrow, gold-bearing quartz veins & associated sulphides (pyrite, pyrrhotite, chalcopyrite) within a vertically dipping shear zone, which ranges in width from two to four feet, and strikes about N 25° W. Sampling of this showing returned gold values that ranged from 0.02-1.91 oz. gold per ton over widths of from three to 18 inches. Said gold values taken across a minimum width of 12 inches averaged 0.196 oz. Au/ton along a strike length of 530 feet.

(c) Stack Vein Zone:

The "Stack Vein Zone" extends for a minimum of 2,000 feet along a N 50-57° W strike direction through Claim Nos. P.955138, 901428 & 29. Said gold zone consists of roughly parallel, very narrow, gold-bearing quartz-carbonate stringer veins within an highly altered shear zone that has associated sulphide (pyrite, pyrrhotite, chalcopyrite) mineralization. Due to extensive overburden cover (cedar swamp) in the area this gold-bearing shear zone is exposed (Trench Systems G, H & B) only intermittently along its strike length and rarely across its full width.

WINTER (1989) EXPLORATION PROGRAM:(a) I.P. Survey:

During the period Mar. 12-25, 1989 a Time-Domain Induced Polarization/Resistivity Survey was completed on the ice of Horwood Lake. Said survey encompassed Gold Zone "A" and the area located to the west along the regional strike.

The I.P. Survey indicated a substantial thickness of conductive lake-bottom sediments. The presence of this conductive sediment layer masked bedrock responses and made precise readings difficult to obtain. However, the I.P. Survey did delineate three weak to moderate sub-parallel easterly-trending bedrock anomalies. The cause of these I.P. anomalies is currently unknown.

For further details refer to the report by R. Lachapelle, B.Sc., Ing.Jr. dated April, 1989 that is attached as an Addendum to this summary report.

(b) Diamond Drilling:

During the period Mar. 24 to Apr. 2, 1989 two diamond drill holes (DDH# BP-1 & BP-2) were completed from sites located on the ice of Horwood Lake. The cumulative length of the holes drilled was 821 feet.

The purpose of DDH# BP-1 was to further evaluate a number of thin, gold-bearing quartz-carbonate stringer-vein zones/horizons including the "Main" gold-sulphide-bearing Exhalative Chert Horizon previously tested in part by diamond drilling (1960); and to more accurately determine the local stratigraphy & host rocks present in Gold Zone "A" as well as to establish where possible the strike/dip of the gold-bearing zones themselves.

The I.P. Survey response in the area drilled was inconclusive due to the presence of an 18-foot thick layer of masking (conductive) lake-bottom sediments.

DDH# BP-1, completed to its targeted depth of 588 feet, intersected 12 separate gold-bearing quartz-carbonate/cherty stringer vein zones that ranged in width up to 5.5 feet. The Table that follows summarizes the sampling/assaying results from DDH# BP-1.

TABLE 1:- Diamond Drill Hole No. BP-1;
Sample Locations & Assay Results.

<u>Sample No.:</u>	<u>Core Interval:</u> (feet)	<u>Length of Sample:</u> (feet)	<u>Assay Results:</u> (oz.Au/ton)
6001	25.0 - 26.2	1.2	0.02
6002	59.0 - 61.5	1.5	0.01
6003	74.5 - 80.0	5.5	0.04
6006	165.0 - 166.0	1.0	0.01
6008	259.0 - 260.0	1.0	0.015
6009	302.5 - 303.5	1.0	0.16 (0.15/0.17)
6010	334.5 - 335.4	1.0	0.02
6011	444.0 - 446.0	2.0	0.03
6013	476.4 - 477.4	1.0	0.525 (0.56/0.51/0.51)
6015	557.5 - 558.5	1.0	0.145 (0.13/0.16)
6016	568.1 - 569.3	1.2	0.05
6017	584.6 - 585.6	1.0	0.15 (0.16/0.14/0.14)

Because of adverse ice conditions on Horwood Lake, DDH# BP-2 had to be relocated from its planned site 100 metres west of DDH# BP-1 to a less desirable location 200 metres (656 ft.) east of the first hole. Due to further deteriorating ice conditions DDH# BP-2 had to be stopped at 233 ft. before reaching its target area. Four drill core samples taken from DDH# BP-2 not unexpectedly returned only negligible gold values.

For details as to rock types intersected, etc. in the drilling program refer to the Drill Logs for BP-1 & 2 that accompany and constitute an integral part of this summary report.

CONCLUSIONS & RECOMMENDATIONS:

The widespread presence on the subject Blueberry Island Gold Property of gold-bearing quartz veins/exhalative chert horizons in schistose fractures and/or contact zones is geologically encouraging. The fact that substantial gold values have been found associated with these veins in the limited diamond drilling completed and the few bedrock outcrop areas accessible for trenching enhances the overall exploration potential of the property.

It is also significant that the host rocks for the gold-bearing fracture/vein systems on the property are metavolcanics/metagabbro that are lithologically comparable to the host rocks present at the nearby gold mines/prospects.

The limited exploration programs completed to date on the Blueberry Island Property have been highly successful in delineating three gold-bearing areas of potential economic interest. Each of these Gold Zones warrant substantial additional detailed evaluation in an exploratory search for gold orebodies similar to those found in the nearby area.

It is hereby recommended that when conditions are feasible:

- (a) a detailed evaluation be made on the "Stack Vein" & "Inlet" Gold Zones by power stripping, trenching detailed geological mapping & sampling, and follow-up diamond drilling; said program to be commenced after spring break-up;
- (b) a "field check" be undertaken to determine where possible the cause & economic significance of 13 "high priority" VLF-EM anomalies previously detected; and

(c) a detailed evaluation of Gold Zone "A" be made by extensive diamond drilling to be undertaken during the winter months after complete freeze-up of Horwood Lake. Said drilling program should test this significant gold-bearing exhalative chert horizon both along its possible strike extensions and at depth.

* * * * *

Respectfully submitted,

April 30, 1989
Timmins, Ontario

K.H. Darke



K.H. Darke, P.Eng.
Consulting Geological Engineer

BLUEBERRY ISLAND PROPERTY
 HORWOOD TWP., ONT.
 Porcupine Mining Division

BAYRIDGE/PELANGIO J.V.
 D. D. HOLE No. BP-1

Loc. Claim P.798703 Dip collar : 50° Bearing collar : 180° Length: 588 ft.
 3+00W (metric Grid) : : : : Collar el. :
 1+00N " " : : : : Bottom el. :

Drilled by: SPARTA Core size: 1.2" Begun: Mar. 24/89 Ended: Mar. 30/89 Logged by: K. Darke, P. Eng.

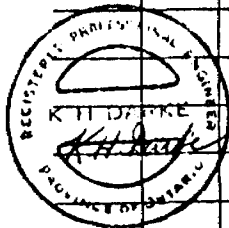
Samples	Footage drilled				Geology
	From	To	Len.	Rec.	
	0	24.0			OVERBURDEN (Lake Bottom Sediments)
	24.0				MAFIC METAVOLCANIC (TRACHYTE); dark-green; fine-grained; scattered, thin Quartz-Carbonate stringer veins & minor disseminated Pyrite (Py). 24.8': 1/2" Q-C strg. @ 27° to core axis. 25.9': 1/8" Q-C strg. with 50% Py @ 19° to c.a. 26.1': 1/16" Q-C " " " @ 46° to c.a. 26.6-28': - CORE GROUND (FAULT ZONE) 36': - becomes somewhat bleached (Carbonatized); grey colour; scatt. Q-C strg. along hair- line fractures. 56': - Broken & Ground Core (6"); FAULT (?) 59-61.5': 10% Q-C strgs. @ 14° to c.a.
		67.8	43.8	95	
		67.8	....	.....	Contact @ 53° to c.a.
	67.8				MAFIC METAVOLCANIC (TRACHYTE) as before 74.6': 1/16" Pyrrhotite (Po) strg. @ 59° to c.a. 75': 1/2" Smokey Q-C strg. @ 22° to c.a.; a few blebs Po, Py. 77.1-78.5': CORE GROUND (FAULT ZONE). 81': 6" amygdaloidal/porphyritic. 83.5-84': porphyritic 85.5-86.9': "
		86.9	19.1	93	
		86.9	...	.....	Contact (?) @ 41° to c.a.
	86.9				MAFIC METAVOLCANIC (TRACHYTE) as before; local bleached (Carbonatized) sections; local, thin Qtz-Carb. stringers. 90-91': BROKEN CORE 99-101': Porphyritic/Amygdaloidal 110-111.5': BROKEN CORE 115': 6" of " " 115.5': 2" Smokey Q-C strg. (no sulphides). 123-124': BROKEN CORE 136.5-142': 10% Q-C strgs. 139': 3/8" & 1/2" Q-C strgs. @ 43° to c.a.; a few blebs Po. 150': small blebs Po. 160-61.5': Healed Breccia, Q-C filling fractures. 165.2': 4" Smokey Q-C strg. @ 50° to c.a.; diss. Py along fractures. 180-181': BROKEN CORE; 50% recovery. 180': 3/8" Q-C strg. @ 47° to c.a. 182.2': 1/2" Q-C strg. 184-204': scattered thin Q-C strgs. along hairline fractures. 208-209': a few scattered blebs Po, Cpy. 220.5-222.5': 10% S.Q-C strgs., few blebs Po. 234-238': scatt. blebs Po in Q-C strgs. 235.8': 1/8" fracture with Q-C & blebs Po, Py. 237.6': 1/2" Q-C strg. @ 38° to c.a.; blebs Po.
					D. D. Hole No. BP-1

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Loc. Dip collar : Bearing collar : Length: 588 ft.
 : : Collar el. :
 : : Bottom el. :

Drilled by: Core size: Begun: Ended: Logged by: KHD

Samples	Footage drilled				Geology
	From	To	Len.	Rec.	
(86.9)	Continued			%	259-261': a few 1/8"-1/4" Smokey Q-C strgs. with blebs Po, minor Cpy.
					269 & 281.6': a few thin Q-C strgs., blebs Po. 280' & 281': BROKEN CORE (90% recovery).
					281.5': 1/8" Q-C strg. with Po @ 77° to c.a.
					281.6': 1/16" fracture with Po @ 69° to c.a.
					286': 1" S.Q-C strg. with Po, Py.
					289-91': Q-C strgs., blebs Po; parallel to c.a.
					303': 1/2" S.Q-C strg.; large blebs Po, minor Cpy across 2".
					324-363': - Becomes bleached & coarser-grained.
					335': 5" S.Q-C strg. & min. Py @ 29° to c.a.
					374': Q-C strgs. over 3".
					384.5-85.5': scattered barren Q-C strgs.
					412-13': Coarser-grained (white feldspar crystals) no obvious contacts or bedding.
					427-28': Barren Q-C strg.
	443	356.1			442-43': CORE GROUND: CONTACT (?)
443					INTERMEDIATE METAVOLCANIC: local Carbonatization (bleached); scattered Qtz-Carb. strgs.
					444-46': Amygdaloidal; 80% Cherty Qtz-Carb.; no sulphides; fractures @ 49° to c.a.
					446-48': 10% Barren Q-C strgs. @ 27° to c.a.
					476.5-77.1': Smokey Q-C; 20% Po, minor Cpy.
					479-86': Bleached (greyish-green) in part.
					486': becomes coarser-grained.
	498.8	55.8			493': 1/8" Q-C strg., Po blebs over 1".
	498.8	.....			Sharp CONTACT @ 45° to c.a.
498.8					CHILLED MARGIN/BASALTIC FLOW (?); black,
	501.9	3.1			fine-grained; Amygdaloidal in part.
	501.9	.....			Sharp CONTACT @ 55° to c.a.
501.9					GABBRO: dark-green; med.-grained; scattered thin Q-C strgs.
					508': becomes bleached (dk-grey) in part.
					524-25.2': 50% S.Q-C strgs.
					525.2-27.9': scattered Q-C strgs.
					525.2: becomes more chloritic & sheared. Contact?
					531': Chl.; Sch. (lineations) @ 49° to c.a.
					540-41': becomes more massive; cs-grained
					547': Hematite-stained; 1/16" Q-C strg.
					552.2': " " ; 1/4" Q-C strg. @ 53° c.a.
					557.5': 5" S.Q-C strg. @ 23° to c.a.
					568': 1/8" S.Q-C strg. opp. preceding @ 52° c.a.
					561-62': GROUND CORE (FAULT?)
	569.6	67.7			568.1-69.3': 15% S.Q-C; lg. blebs Po, min. Cpy.
	569.6	.....			CONTACT @ 19° to c.a.; Chilled Margin.
569.6					GABBRO (?): fine-grained; scatt. Q-C strgs.
	588	18.4			584.6': S.Q-C strgs.; large blebs Po, min. Py. D. D. Hole No. BP-1



END OF HOLE

BLUEBERRY ISLAND PROPERTY
HORWOOD TOWNSHIP, ONTARIO
Porcupine Mining Division

BAYRIDGE/PELANGIO J.V.

D. D. HOLE No. BP-2

Loc. Claim P.798703 Dip collar : 50° Bearing collar : 180° Length: 233 ft.

1+00W (Metric Grid)

1+00N " "

Cellar el.:

Bottom el.:

Drilled by: SPARTA Core size: 1.2" Begun: Mar. 31/89 Ended: Apr. 2/89 Logged by: K. Darke, P. Eng.

Samples	Footage drilled				Geology
	From	To	Len. ft.	Rec. %	
	0	24	24	0	OVERBURDEN: Lake Bottom Sediments
	24				INTERMEDIATE METAVOLCANIC (DACITE): greyish-green; generally massive; numerous thin Quartz-Carbonate (Q-C) stringers filling fractures.
		62.7	38.7	100	39': 1/4" Q-C strg. @ 13° to core axis.
		62.7	.....	.....	CONTACT @ 47° to c.a.
	62.7				INTERM. TUFF (DACITIC): white feldspar crystals in a dk. greyish-green matrix; a few scattered
		79.0	16.3		Q-C strgs. (May be Porphyritic Flow)
		79.0	.....	.....	Distinct CONTACT @ 59° to c.a.; 1/2" Q-C strg.
	79.0				INTERM. TUFF (DACITIC): same as preceding.
		90.9	11.9		86':- becomes more porphyritic in appearance.
		90.9	.....	.....	CONTACT @ 45° to c.a.
	90.9				MAFIC METAVOLCANIC (TRACHYTE): dk. greyish-green; fractured & chloritic in part; local Carbonatization; a few thin Q-C strgs.
					110.3': rusty, broken core.
					130.1': 1" healed fracture with Q-C strg. @ 84°.
					136.5': 1" Cherty Q-C strg. @ 53° to c.a.; with blebs Pyrrhotite, Pyrite (Po, Py)
		141.0	50.1		140.2': 1/2" C.Q-C strg. @ 70°; minor Py, Po.
		141.0	.....	.....	CONTACT @ 42° to c.a.
	141.0				MAFIC METAVOLCANIC (TRACHYTE): grey; more
		144.0	3.0		massive & less carbonatized than preceding rx.
	144.0				CONTACT ZONE: becomes highly fractured (schistose) @ 64° to c.a.; chloritic & carbonatized (bleached) at contact.
		147.8	3.8		
		147.8	.....	.....	Irregular CONTACT @ 73° to c.a.
	147.8	148.8	1.0		SCORIACEOUS FLOW TOP: Scattered Cherty (black) Q-C patches with minor Py & Fuchsite. Top of preceding flow? (strata overturned?)
	148.8				VOLCANIC MUDSTONE: schistose; chloritic & carbonatized; thin bedding in places; scattered Q-C strgs. with minor Py.
					149.5': rusty fracture @ 69° & 1" Smokey Q-C strg.
					151': schistosity @ 72° to c.a.
		156.2	7.4		154': thin, crenulated bedding.
		156.2	CONTACT (?) @ 74° to c.a. D. D. Hole No. BP-2

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
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MAR - 8 1990

RECEIVED

... Continued on Page 2.

Lec. Dip collar : Bearing collar : Length: 233 ft.
 : : Collar el. :
 : : Bottom el. :

Drilled by: Core size: Begun: Ended: Logged by: KHD

Samples	Footage drilled ft.				Geology
	From	To	Len.	Rec. %	
	156.2				INDURATED VOLC. MUDSTONE: dk.grey, massive, fine-grained; chloritic in part.
		161.3	5.1		
		161.3	.....	.....	CONTACT @ 72° to c.a.; parallel to schistosity.
	161.3				INTERM. TUFF (DACITIC): same as 62.7-79 ft.;
		164.1	2.8		dk.grey; scattered Q-C strgs. with minor Py.
		164.1	.....	.....	CONTACT @ 86° to c.a.
	164.1				VOLCANIC MUDSTONE: massive (minor bedding?); chloritic, fractured & carbonatized in part; 165': chl. fracture @ 68° & bedding(?) @ 80°.
		169.0	4.9		167.5': Bedding @ 70° to c.a.
	169.0				CONGLOMERATE: abundant Qtz-Feldspar as large, elliptical, brecciated pebbles (?) & a few, rounded Dacitic pebbles in a fine-gr. chloritic Mudstone matrix.
		177.0	8.0		
		177.0	.....	.....	CONTACT @ 82° (bottom of flattened pebble).
	177.0	181.0	4.0		INTERM. TUFF (DACITIC): same as @ 161.3.
		181.0	.....	.....	Irreg. CONTACT (pebbles follow) @ 35° to c.a.
	181.0				CONGLOMERATE: same as before (169-177 ft.).
		183.2	2.2		Coarse pebbles then becoming smaller at bottom of zone. (Overturned strata?).
		183.2	.....	.....	Distinct CONTACT @ 70° to c.a.
	183.2	185.0	1.8		INTERM. TUFF (DACITIC): same as before.
		185.0	.....	.....	CONTACT & Q-C strg. @ 86° to c.a.
	185.0	186.1	1.1		VOLC. MUDSTONE: schistose, chloritic
		186.1			CONTACT & BEDDING @ 72° to c.a.
	186.1	188.2	2.1		TRACHYTE: dk.greyish-green; carbonatized;chl.
		188.2	.....	.....	CONTACT ground.
	188.2				VOLC. MUDSTONE: schistose, chloritic.
		191.7	3.5		189.5': Bedding/Fracturing @ 84° to c.a.
		191.7	.....	.....	CONTACT (?) @ 65° to c.a.
	191.7				INTERM. METAVOLCANIC (DACITIC TUFF?): carbonatized; a few thin Q-C strgs.
		202.6	10.9		
	202.6	204.0	1.4		CHILLED MARGIN; black; aphanitic.
	204.0	233.0	29.0		GABBRO: fine-grained.

END OF HOLE



BRIEF GEOPHYSICAL REPORT
on the
Blueberry Island Property
of
PELANGIO-LARDER MINES LTD.
and
BAYRIDGE DEVELOPMENT LTD.
Joint Venture
Horwood Township, District of Sudbury
Porcupine Mining Division, Ontario
by
Richard Lachapelle, B.Sc. Ing. Jr.
April, 1989

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CERTIFICATION

LIST OF FIGURES

Figure 1 Property Location Map
Figure 2 Geophysical Compilation Map

INTRODUCTION

From March 12 to March 25, 1989 a program of induced polarization was conducted on the Blueberry Island Property for Pelangio-Larder Mines Ltd. and Bayridge Developments Ltd.

The geophysical surveying was conducted by Robert S. Middleton Exploration Services Inc. of Timmins, Ontario, and consisted of a time-domain induced polarization/resistivity survey. The survey was conducted as a follow-up and complimentary to a previous VLF-EM survey and extensive drilling program which delineated favourable geological settings worthy of further work.

CLAIM GROUP AND LOCATION

The Blueberry Island Property consists of 39 un-patented contiguous mining claims in Horwood Township, Porcupine Mining Division, Ontario (Figure 1). The registered holder of these claims is Pelangio-Larder Mines Ltd. The survey was performed on the following 6 claims:

798703
995556-58 inclusive
995951-52 inclusive

The claims are illustrated on the compilation map, Figure 2.

SURVEY PROCEDURE

INDUCED POLARIZATION/RESISTIVITY

Field Method

The survey was conducted using a pole-dipole array with a dipole length of 25m and array spacings of $n=2, \dots, 5$ dipoles. This array configuration involves having a dipole for the receiver measuring V_p , the potential and a single current transmitter electrode on the grid, separated from the receiver dipole by each 'n' interval in turn. The other current electrode, 'the infinity' is situated 2 kilometers or more from the grid.

For this survey the measurements were taken in the time domain, so the transmitted current was a bi-polar on-off square wave with each on or off lasting two seconds. Measurements of resistivity and chargeability were taken every 25m.

PERSONNEL AND EQUIPMENT

The induced polarization was conducted by a four-man crew supplied by Robert S. Middleton Exploration Services Inc. of Timmins, Ontario. The crew chief was Mark Wilson of 136 Cedar Street South, Timmins, Ontario.

The equipment used consisted of a Scintrex IPR-11 time-domain induced polarization receiver and a Scintrex TSQ-3, 3Kw transmitter.

SURVEY STATISTICS

The survey comprised a total of 5.55 line km of time-domain induced polarization/resistivity readings. The survey required 13.5 days to complete of which one day was lost due to equipment failure and 2.5 days were used for camp mobilization/demobilization.

INTERPRETATION

The induced polarization survey delineated three weak to moderate sub-parallel easterly trending anomalies, denoted A-A, B-B and D-D, which are illustrated on the geophysical compilation map, Figure 2. The resistivity signature observed for the first two separations (n=2 and n=3) indicate a substantial thickness of conductive lake-bottom sediments. The presence of this conductive sediment layer can render precise readings difficult to obtain.

The general strike of the IP anomalies agrees well with previous diamond drill results done by Kerr Addison Mines Ltd. in 1960 (Darke, 1988). Based on these previous drilling results, the IP anomalies are interpreted to possibly represent "narrow, gold-bearing quartz-carbonate stringer veins/cherty horizons" in metavolcanic rocks.

CONCLUSIONS AND RECOMMENDATIONS

The induced polarization survey delineated several weak to moderate sub-parallel anomalies. The presence of a substantial thickness of lake-bottom sediments has modified the true signature of these anomalies making them appear weaker than they really are, and in some cases, such as between lines 2+00W and 3+00W and between baseline and station 1+00N, rendered adequate readings impossible to obtain.

The induced polarization anomalies are on strike with promising gold-bearing horizons and should therefore not be dismissed as too weak and insignificant.

Therefore an extensive diamond drilling program is recommended on these anomalies, more specifically on the western extension of anomaly D-D, which has the highest chargeability signature of the three anomalies.

Respectfully submitted

Richard Lachapelle, Ing. Jr.

Richard Lachapelle, B.Sc. Ing. Jr.

REFERENCES

DARKE, K.H.
1988

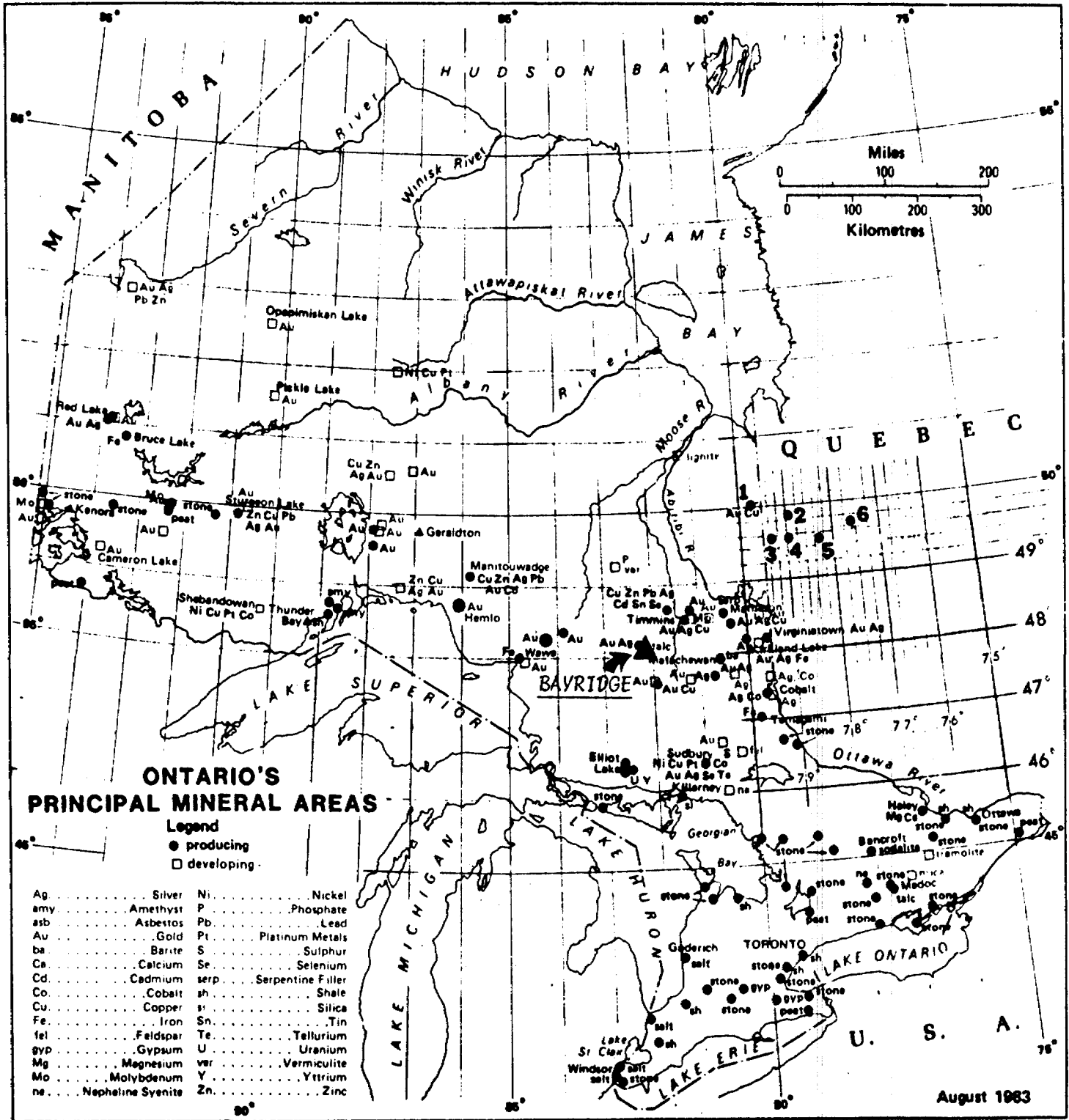
GEOLOGICAL EXPLORATION REPORT on the BLUEBERRY
ISLAND GOLD PROPERTY, HORWOOD TOWNSHIP,
ONTARIO, Porcupine Mining Division, District
of Sudbury for BAYRIDGE DEVELOPMENTS LTD.,
March 4, 1988

General Location Map
BAYRIDGE DEVELOPMENTS LTD.
BLUEBERRY ISLAND GOLD PROPERTY
HORWOOD TOWNSHIP, ONTARIO

Porcupine Mining Division
 District of Sudbury

Scale: 1 inch = 135 miles

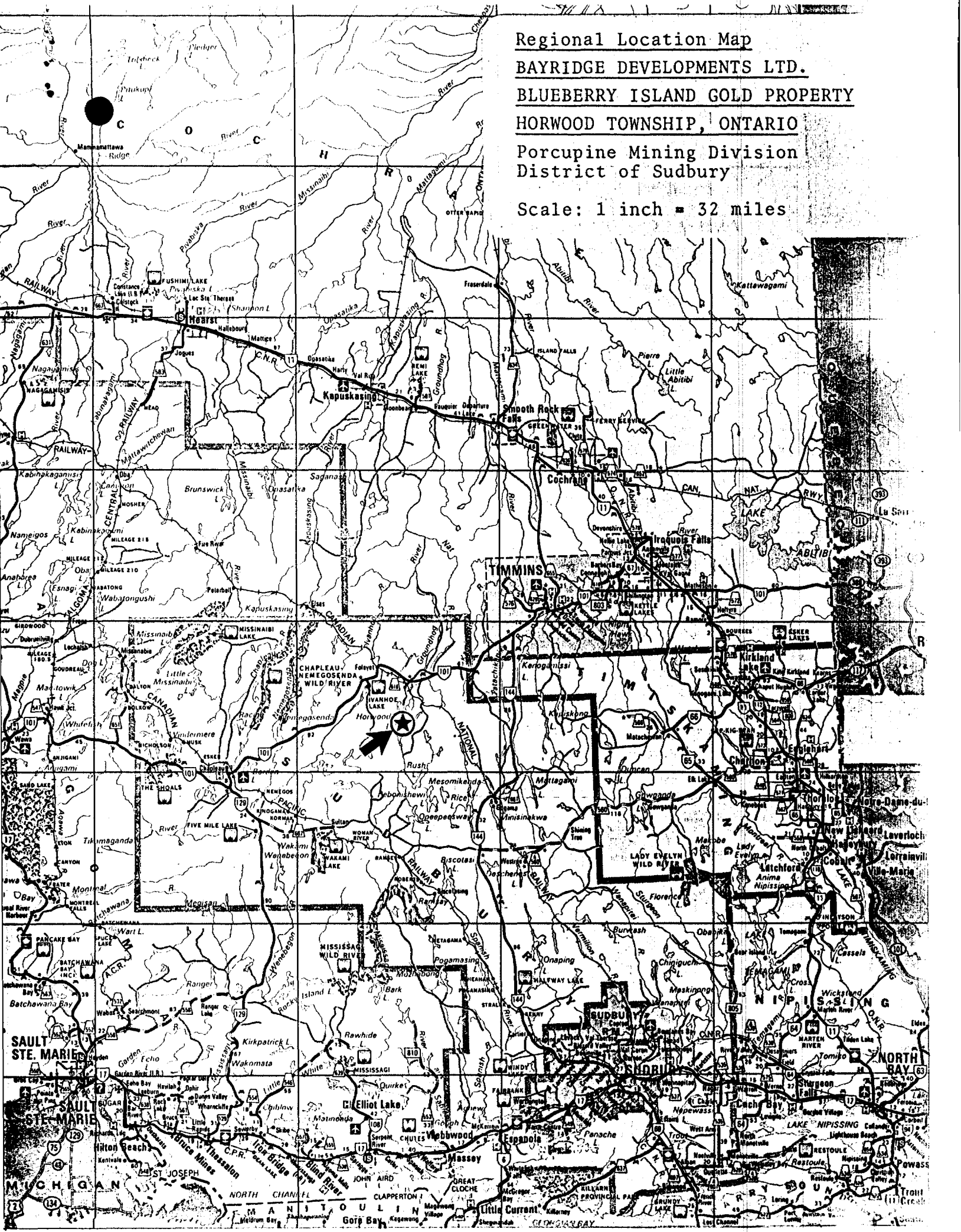
1. Detour Lake
2. Les Mines Selbaie
3. Inco-Golden Knight
4. Teck-Golden Hope
5. Joutel
6. Matagami Lake

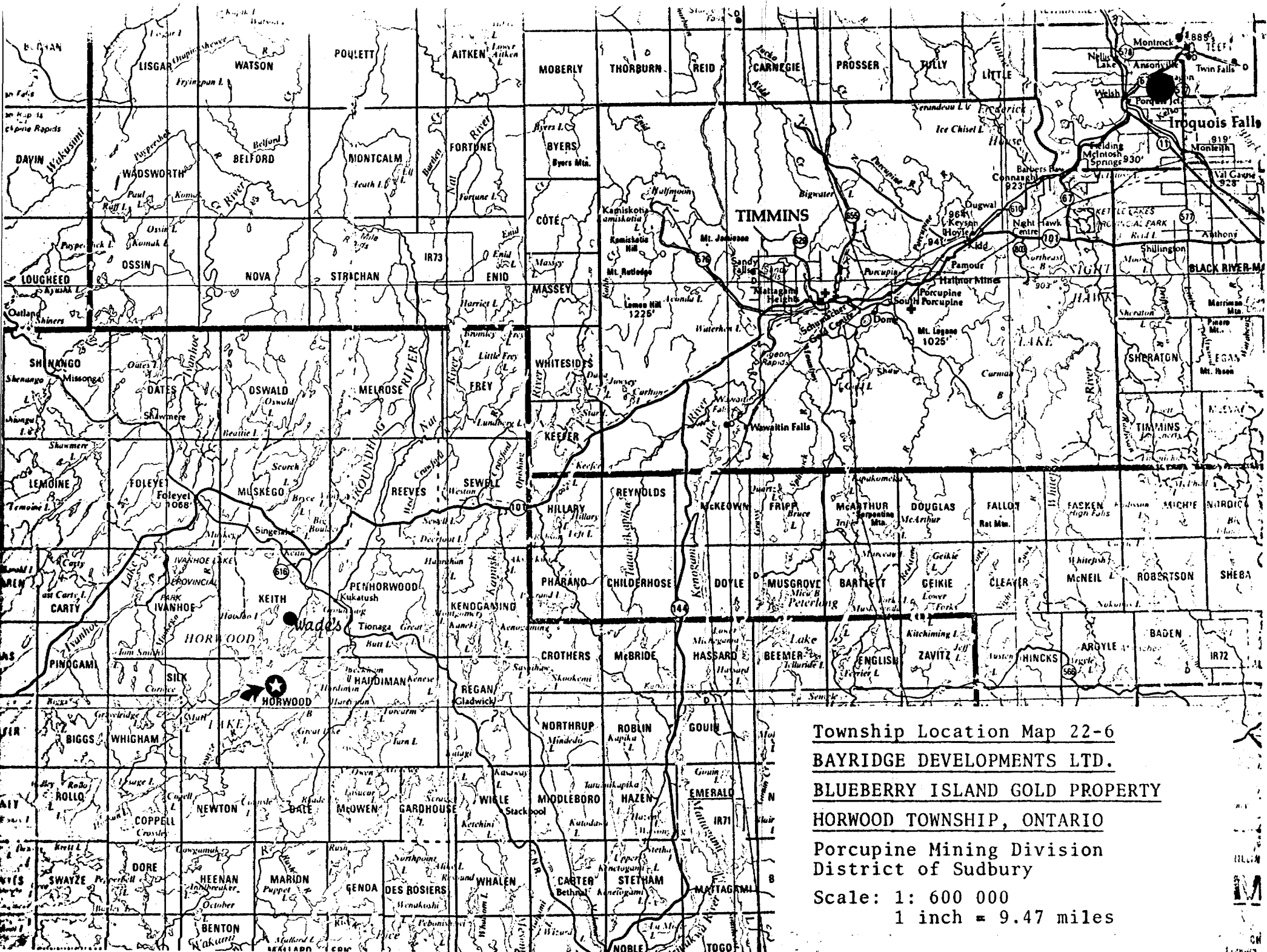


Regional Location Map
BAYRIDGE DEVELOPMENTS LTD.
BLUEBERRY ISLAND GOLD PROPERTY
HORWOOD TOWNSHIP, ONTARIO

Porcupine Mining Division
District of Sudbury

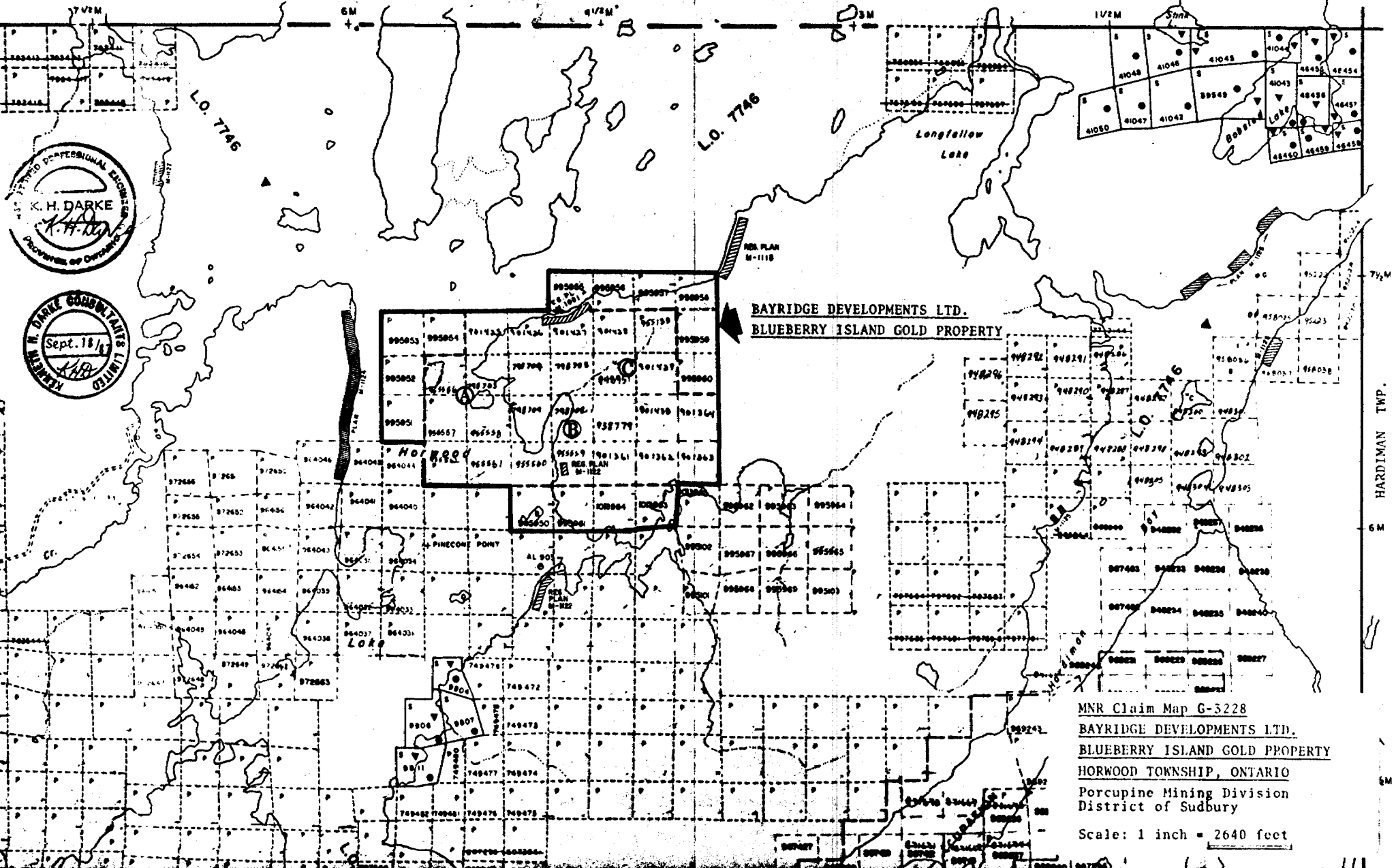
Scale: 1 inch = 32 miles





Township Location Map 22-6
 BAYRIDGE DEVELOPMENTS LTD.
 BLUEBERRY ISLAND GOLD PROPERTY
 HORWOOD TOWNSHIP, ONTARIO
 Porcupine Mining Division
 District of Sudbury
 Scale: 1: 600 000
 1 inch = 9.47 miles

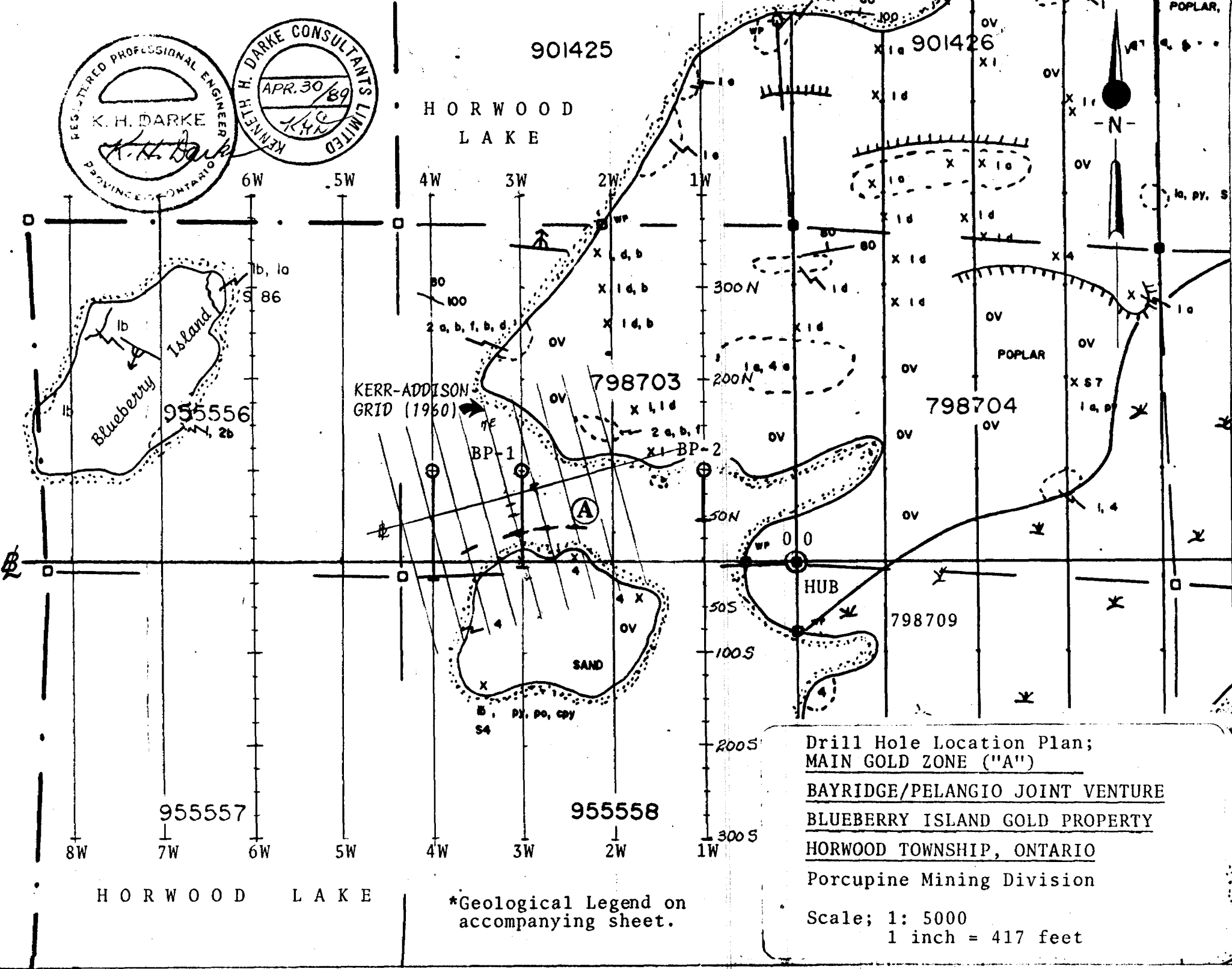
KEITH TWP



**BAYRIDGE DEVELOPMENTS LTD.
BLUEBERRY ISLAND GOLD PROPERTY**

MNR Claim Map G-3228
**BAYRIDGE DEVELOPMENTS LTD.
BLUEBERRY ISLAND GOLD PROPERTY**
HORWOOD TOWNSHIP, ONTARIO
Porcupine Mining Division
District of Sudbury
Scale: 1 inch = 2640 feet

HARDIMAN TWP.



Drill Hole Location Plan;
MAIN GOLD ZONE ("A")
BAYRIDGE/PELANGIO JOINT VENTURE
BLUEBERRY ISLAND GOLD PROPERTY
HORWOOD TOWNSHIP, ONTARIO
Porcupine Mining Division
Scale; 1: 5000
1 inch = 417 feet

*Geological Legend on accompanying sheet.

Geological Legend &
Claim Location Plan

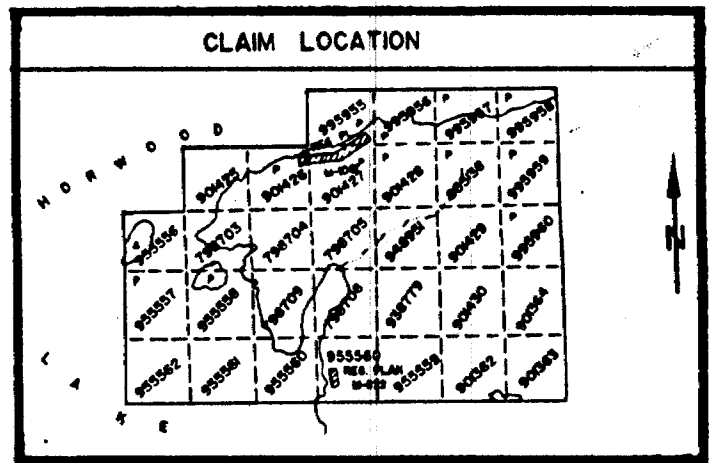
BAYRIDGE/PELANGIO JOINT VENTURE

BLUEBERRY ISLAND GOLD PROPERTY

HORWOOD TOWNSHIP, ONTARIO

Porcupine Mining Division

LEGEND	
(7) FELSIC INTERMEDIATE PLUTONIC ROCKS	<ul style="list-style-type: none"> <input type="checkbox"/> (a) granite <input type="checkbox"/> (b) granodiorite <input type="checkbox"/> (c) opite dikes <input type="checkbox"/> (d) diorite
(6) FELSIC INTRUSIVE ROCKS	<ul style="list-style-type: none"> <input type="checkbox"/> (a) felsite dikes <input type="checkbox"/> (b) quartz-feldspar porphyry
(5) ULTRAMAFIC INTRUSIVE ROCKS	<ul style="list-style-type: none"> <input type="checkbox"/>
(4) MAFIC INTRUSIVE ROCKS	<ul style="list-style-type: none"> <input type="checkbox"/> (a) gabbro <input type="checkbox"/> (b) diabase
(3) METASEDIMENTS	<ul style="list-style-type: none"> <input type="checkbox"/> (a) greywacke <input type="checkbox"/> (b) conglomerate <input type="checkbox"/> (c) chert <input type="checkbox"/> (d) quartzite <input type="checkbox"/> (e) slate <input type="checkbox"/> (f) iron formation
(2) FELSIC-INTERMEDIATE METAVOLCANICS	<ul style="list-style-type: none"> <input type="checkbox"/> (a) tuff <input type="checkbox"/> (b) lapilli tuff + agglomerate <input type="checkbox"/> (c) pyroclastic breccia <input type="checkbox"/> (d) flows <input type="checkbox"/> (e) spherulitic and/or vesicular flows <input type="checkbox"/> (f) porphyritic flow
(1) MAFIC-INTERMEDIATE METAVOLCANICS	<ul style="list-style-type: none"> <input type="checkbox"/> (a) massive flows <input type="checkbox"/> (b) peaved flows <input type="checkbox"/> (c) chlorite schists <input type="checkbox"/> (d) tuff <input type="checkbox"/> (e) lapilli tuff and agglomerate <input type="checkbox"/> (f) amphibolized volcanic rocks



SYMBOLS	
Ov	Overburden
	Trench
	Pit
	Outcrop
	Ridge or Cliff
	Contact
	Bedding strike + Dip
	Foliation strike + Dip
	Pillows
	Pillows with tops indicated
S 1,2,3, etc.	Sample Locations
Au	Gold
Cpy	Chalcopyrite
Mag	Magnetite
Ni	Nickel
Po	Pyrrhotite
Sp	Sphalerite
Carb	Carbonate
Ser	Sericite

TOPOGRAPHIC	
	Trail path
	Dish 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

BAYRIDGE-PELANGIO JOINT VENTURE

HORWOOD LAKE PROPERTY

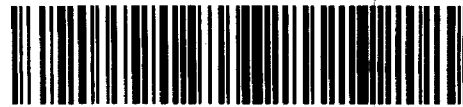
GEOLOGICAL PLAN

GEOL. BY: COMPLET. BY: PAID - 00250N

DATE: August 1987

Drawn by Guy T. Bland Exploration Services
Drawn by E. S. SMANT

SCALE: 1:5000



Name and Postal Address of Recorded Holder
 Pelangio Larder Mines Limited T 971
 220 Bay St. Suite 701, Toronto, Ont M5J 1P8
Horwood Trap

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 821	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.	Mining Claim			
	Prefix	Number			Prefix	Number			Prefix	Number		
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input checked="" type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey	P	995951	✓✓	20	P	798708	✓✓	90	P	938779	✓✓	20
		995952	✓✓	21		798709	✓✓	120		901361	✓✓	20
		955556	✓✓	10		901425	✓✓	30		901362	✓✓	20
		955557	✓✓	20		901427	✓✓	20		901363	✓✓	20
		955558	✓✓	10		901428	✓✓	20		901364	✓✓	20
		798703	✓✓	100		901429	✓✓	20				
		798704	✓✓	100		901430	✓✓	20				
	798705	✓✓	100		948951	✓✓	20					

All the work was performed on Mining Claim(s): P 798703

MINERALOGICAL SURVEY
ASSESSMENT FILES OFFICE

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

MAR - 8 1990

Hole No.	Claim No.	Depth	Date Drilled	RECEIVED	Days	Credit
DDH#BP-1	P 798703	588'	Mar. 24-30, 1989		588	
DDH#BP-2	P 798703	233'	Mar. 31-Apr. 2, 1989		233	
		821			821	

Drilling contracted to: Consulting Geologist
 Sparta Drilling Kenneth H. Darke
 Gen. Del. 338 Spruce St. S
 CONNAUGHT, Ont. PON 1A0 TIMMINS, Ont. P4N 6N5

RECORDED

MAY 19 1989

MINING DIVISION
RECEIVED
MAY 19 1989

Date of Report: May 19, 1989
 Recorded Holder or Agent (Signature): *M. Hibbard*

Certification/Verifying Report of Work

I hereby certify that I have 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 after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
 Maurice Hibbard, Cedar Hill, CONNAUGHT, Ont., PON 1A0
 Date Certified: May 19, 1989
 Certifying (Signature): *M. Hibbard*
 President

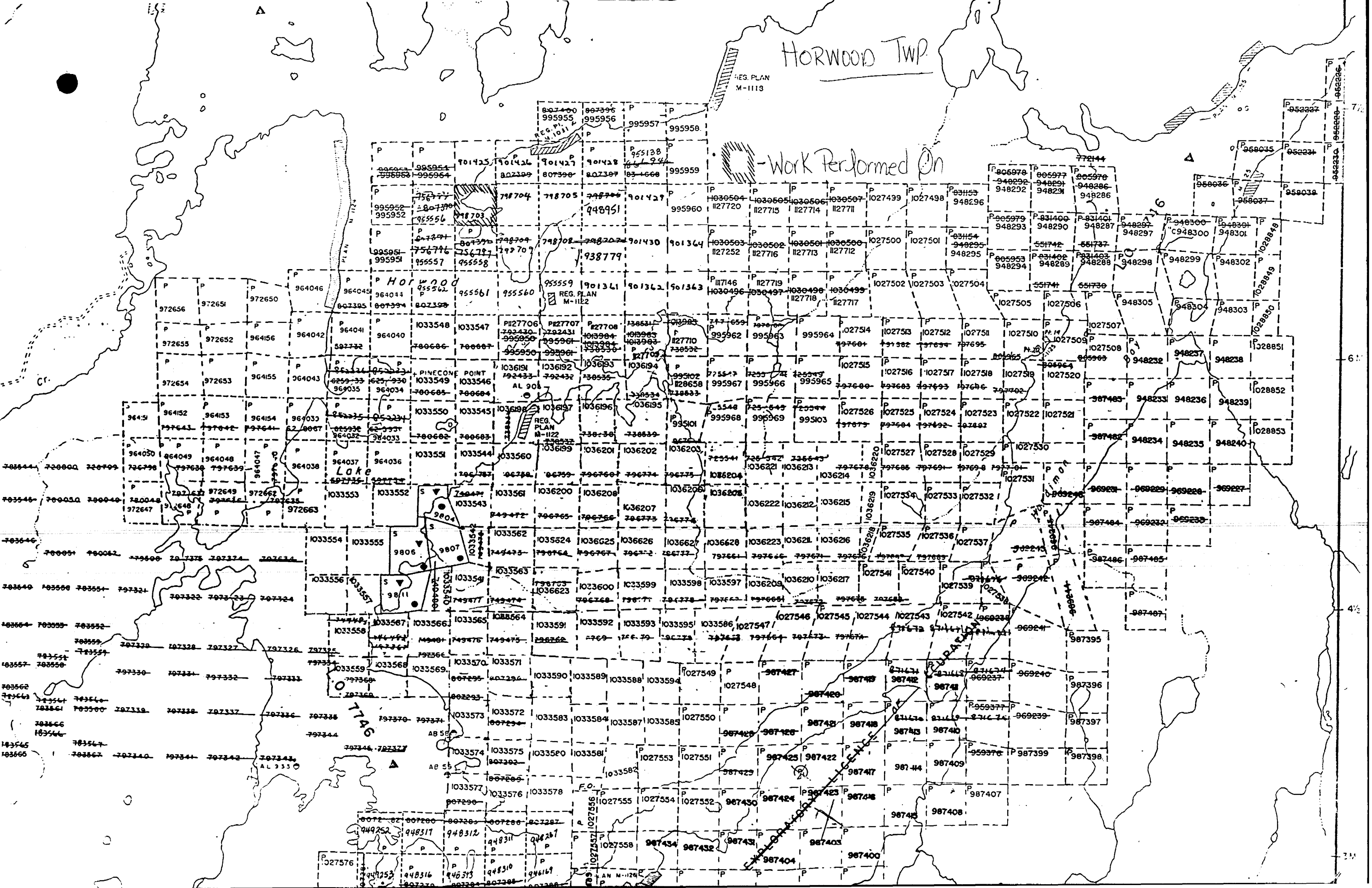
Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping	
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		

HORWOOD TWP

REG. PLAN
M-1113

Work Performed On



HORWOOD

PINECONE POINT
LAKE

SAGO
LAKE

REG. PLAN
M-1122

REG. PLAN
M-1124

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