



31M04SW2018

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CHAMBERS

010

RICHARD RINTALA
HERITAGE EXPLORATION
Sudbury, Ontario

Base Metal and Gold Prospects in Chambers Township
Northeast Temagami Area, Ontario

2. 18831

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SUMMARY

HERITAGE EXPLORATION currently holds a series of unpatented mining claims in Chambers Township, Ontario (Fig. 1). The mining claims encompass 5 claim units with the following distribution:

<u>Property</u>	<u>Claim Number</u>	<u>Claim Units</u>	<u>Area (ha)</u>
Nellem Lake	1223092	1.1	17.6
	1223094, 1223098	2	32
Crash Lake	1223093	2	32
TOTAL:			81.6

Chambers Township, located in the Northeast Temagami area, is underlain by a northeast-trending greenstone belt comprising metavolcanic and metasedimentary rocks of the Archean Superior Province. Numerous dioritic, gabbroic and granitic rocks intrude the metavolcanic rocks as dykes and stocks.

Summary of assays from prospects in Chambers Township

<u>Township</u>	<u>Description</u>	<u>Au (oz/t)</u>	<u>Ag (oz/t)</u>	<u>Pb (%)</u>	<u>Zn (%)</u>	<u>Co (%)</u>	<u>Ni (%)</u>	<u>Cu (%)</u>
*Chambers	schistose to brecciated andesite and tuffs intruded by quartz porphyry, diorite and quartz veining	0.13	tr	-	-	-	-	-
*Chambers	schistose to brecciated andesite and tuffs intruded by quartz porphyry, diorite and quartz veining	nil	tr	0.4	4.0	-	-	0.15
*Chambers	schistose to brecciated andesite and tuffs intruded by quartz porphyry, diorite and quartz veining	tr	tr	tr	0.46	-	-	tr

*located within mining claim 1223094; tr=trace; "-"=not analyzed

The anomalous assay results and geological environment of these prospects warrants further exploration in order to evaluate their potential for hosting economic lead (Pb), silver (Ag), copper (Cu), zinc (Zn) and gold (Au) mineralization.

It is recommended that an exploration grid be established on both the Nellem and Crash Lake properties and that a program consisting of geological mapping, lithogeochemical sampling and ground geophysical survey be undertaken in order to define the extent of mineralization and to provide future exploration targets. In addition, it is recommended that the old trenches in claim 1223094 be re-excavated (by hand), power washed and sampled in order to get a better understanding of the mineralization and local geology.

CHAMBERS TOWNSHIP - Nellem Lake property

Line-Cutting (2.2 km) - claim 1223094	- 400m baseline - 6 x 300m lines at 50m spacing - 25m station intervals	\$660.00
Geophysical Survey	VLF-EM (2.8 km) Self-Potential (2.8 km)	\$225.00 \$225.00
Power Washing	clearing (general labour) pump & hose rental	\$850.00 \$650.00
Geological Mapping	grid/reconnaissance/detail	\$900.00
Assays	20 samples - 32 element + Au	\$700.00
Field Expenses	travel, accommodations etc.	\$800.00
Reports		\$500.00
ESTIMATED TOTAL:		\$5460.00

CHAMBERS TOWNSHIP - Crash Lake property

Line-Cutting (6.0 km) - winter grid	- use north claim line as baseline - 15 x 400m lines at 50m spacing - 25m station intervals	\$1800.00
Geophysical Survey	VLF-EM (6.8 km)	\$550.00
Geological Mapping	grid/reconnaissance	\$600.00
Assays	20 samples - 32 element + Au	\$700.00
Field Expenses	travel, accommodations etc.	\$450.00
Reports		\$400.00
ESTIMATED TOTAL:		\$4500.00

CHAMBERS TOWNSHIP - Nellem Lake & Crash Lake

Located in Chambers Township, the Nellem Lake property consists of three claims south-southwest of Nellem Lake and the Crash Lake property consist of two claims along the north end of Crash Lake. Both properties are within 13.0 km west of HWY. #11 (Fig. 1).

Access to both properties can be made by following several old roads from HWY. #11, north of the town of Temagami. Travel north on HWY. #11 from Temagami for about 8.5 km then turn west onto Red Squirrel Lake Road. Follow Red Squirrel Road for about 15 km then turn off (left), heading west-southwest. Follow this old road for about 13 km then turn right onto an older access road. Follow this road for about 3 km to the north claim line (crosses the road), just west of the number one post on the Crash Lake claim.

Boat access to the Nellem Lake property can be made by continuing along the same road, from the north claim line of the Crash Lake property, for about 2.6 km to an old road that leads south about 100 m to the north shore of Nellem Lake. The east side of two of the three claim units can be accessed along the west shore of the most southern part of Nellem Lake (toward Tasse Lake).

Claim Status

The property consists of 5 unpatented mining claims in Chambers Township, Sudbury Mining Division (claim map G-3416), with the following distribution (Fig. 2):

<u>Claim Number</u>	<u>Number of Claim Units</u>	<u>Area (ha)</u>
Nellem - 1223092	1.1	17.6
Nellem - 1223094	1	16
Nellem - 1223098	1	16
Crash - 1223093	2	32
TOTAL:	5.1	81.6

Exploration History

The earliest record of the **Nellem Lake** property is from prospecting by the Consolidated Mining and Smelting Company of Canada in 1934 and F.W. Thomson in 1941 (Bennett, 1978). Surface stripping revealed numerous quartz veins with massive sphalerite, galena and pyrite mineralization.

In 1952, Halkin Mines Ltd. completed three short diamond drill holes, trenching and limited assaying. The best of ten surface samples returned 4.0% zinc (Zn), 0.40% lead (Pb), 0.15% copper (Cu), trace silver and nil gold.

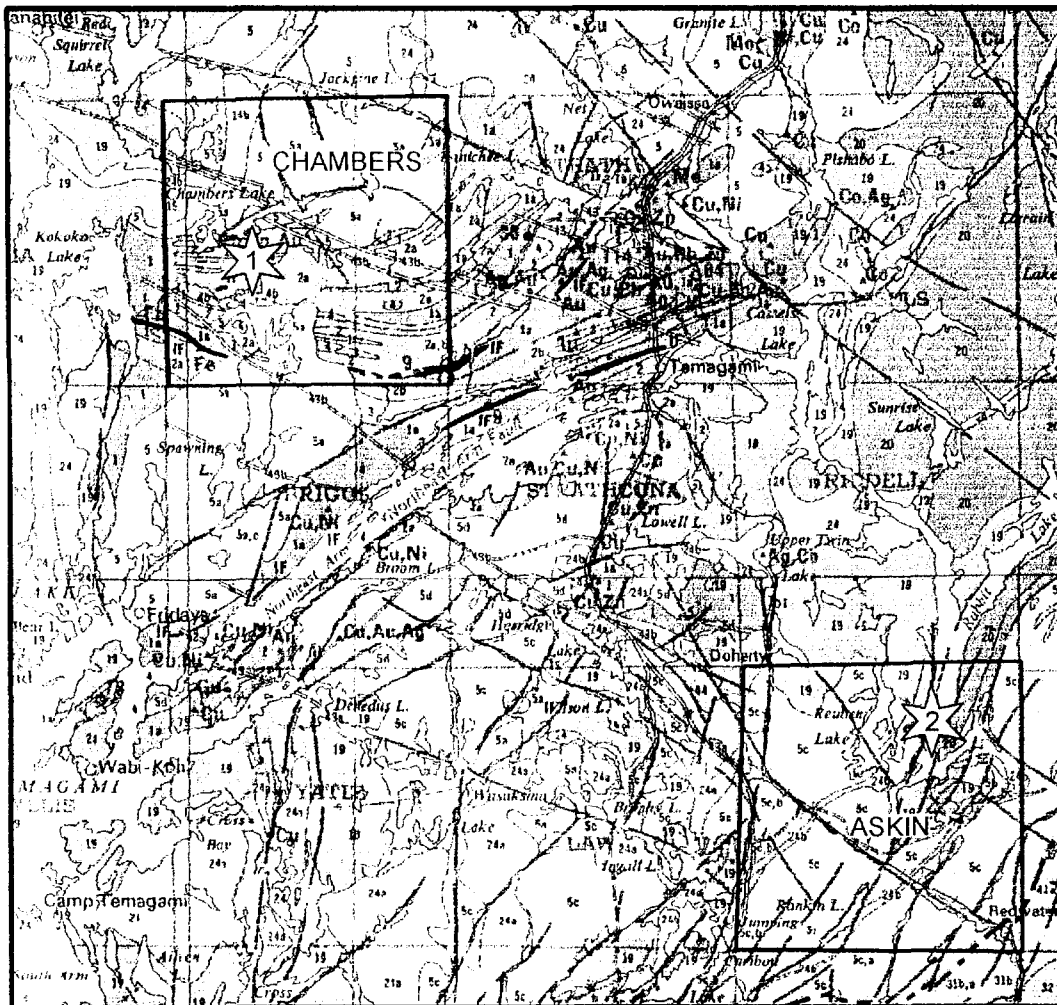


Figure 1. Regional geology and location of the mineral prospects in Chambers and Askin Townships. Showing #1 is a Pb-Ag-Cu-Zn-Au prospect and Showing #2 is a Co-Ni prospect [scale 1:253,440].

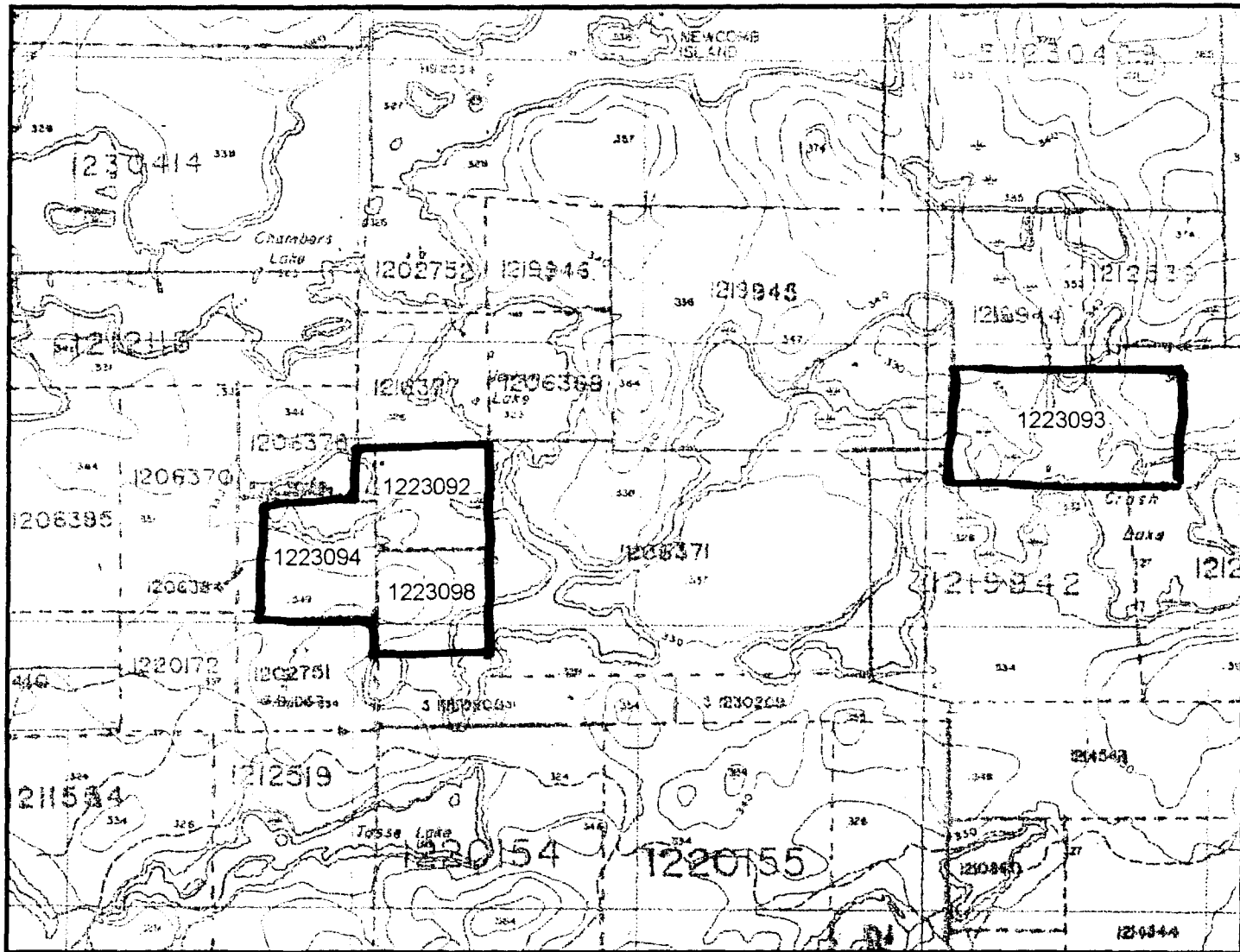


Figure 2. Location of the Nellem Lake (1223094, 1223092, 1223098) and Crash Lake (1223093) mining claims in Chambers Township [scale 1:20,000].

In 1956, Canadian Astoria Minerals Ltd. (Cam Mines Ltd.) completed a diamond drilling program that consisted of nine holes totaling 610.8 m. The Northern Miner (1956), reported that a mineralized zone had been delineated which had a strike length of 370 m and contained appreciable amounts of sphalerite (Zn) galena (Pb) and chalcopyrite (Cu) - no values or tonnage estimates were given.

In 1963, Goldray Mines Ltd. completed three diamond drill holes, totaling 804 m. Goldray intersected a zone of carbonitized and brecciated metavolcanic rocks, intruded by numerous quartz veins, feldspar porphyry and mafic dykes. Quartz veining and mineralization were also reported to occur within a diabase dyke (*Keweenawan* type). No values were reported.

The region was mapped by the Ontario Geological Survey (Bennett, 1978) in the early 1970s during which time the showing was visited. A grab sample collected from the main showing on the Nellem Lake property returned values of 0.46% Zn but only trace gold, silver and lead.

No previous exploration work or mineralization is reported from the area of the **Crash Lake** claims.

Geology and Mineralization

Chambers Township, located in the Northeast Temagami area, is underlain by a northeast-trending greenstone belt comprising metavolcanic and metasedimentary rocks of the Archean Superior Province (Fig. 3). Numerous dioritic, gabbroic and granitic rocks intrude the metavolcanic rocks (Bennett, 1978). Major structural features include northwest and northeast trending faults.

Rocks exposed on the Nellem Lake and Crash Lake properties are predominantly intermediate tuffs, agglomerates, andesites, and dioritic (gabbroic) and granitic intrusive rocks. In addition, the Crash Lake property is underlain by olivine diabase dykes and mafic intrusive rocks (gabbroic dykes).

The mineralized zone on the Nellem Lake property is described as striking roughly 35az and has fairly heavy mineralization exposed over a length of about 90m (Bennett, 1978). A vein of quartz, 2.1-4.3 m wide, is mineralized along the south wall (contact with andesite) with pyrite, sphalerite, galena and chalcopyrite. The eastern exposure of the vein is mineralized solely with pyrite. An irregular body of quartz porphyry crops out south of the main quartz vein and quartz porphyry inclusions also occur as sericitized inclusions within the quartz vein itself. The quartz porphyry is cut by numerous quartz stringers and *greenstone* dykes were noted in the main quartz vein. Two smaller quartz veins (<0.3m wide) are exposed at points 9m and 30m north of the main quartz vein - local mineralization

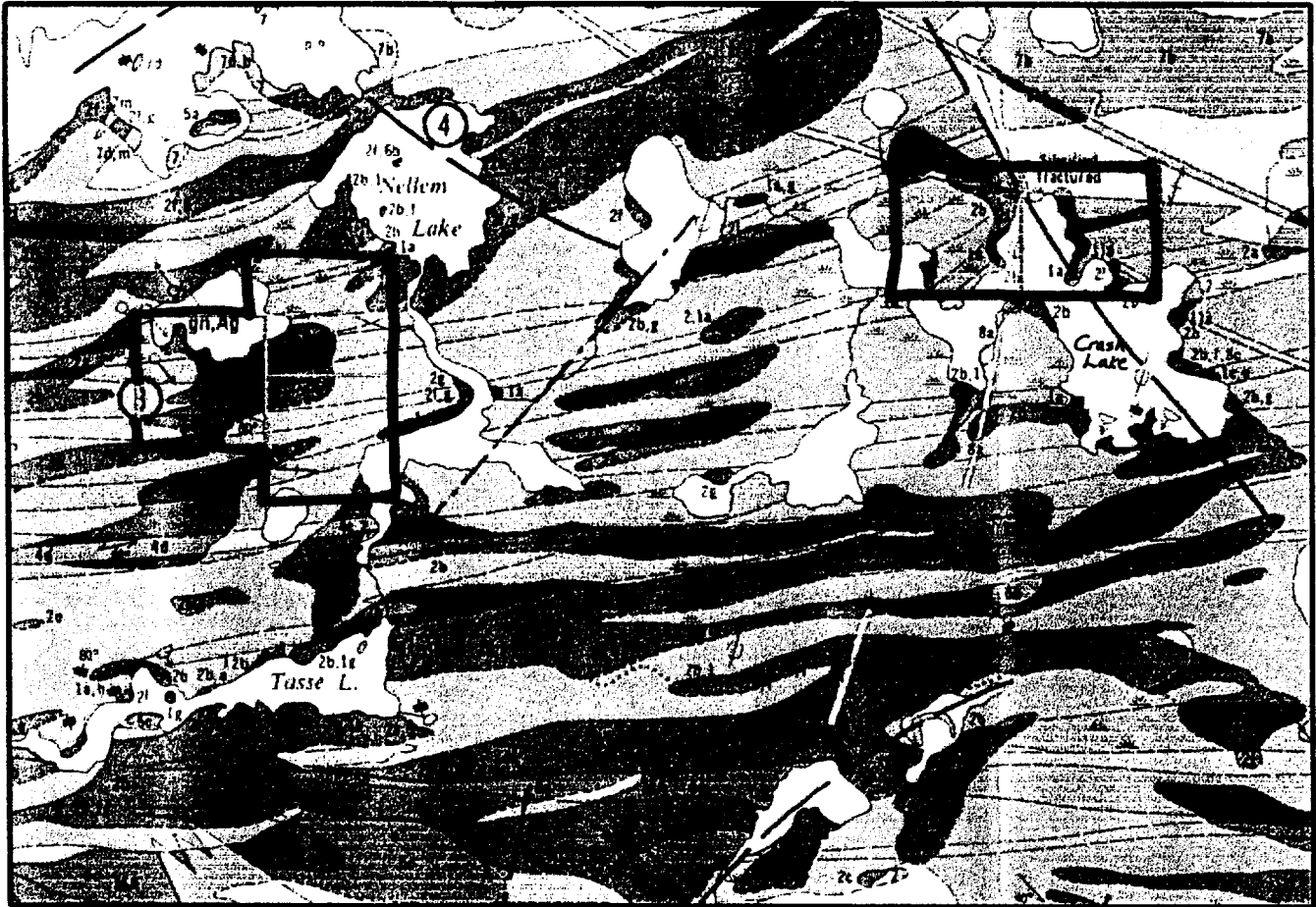


Figure 3. General geology and location of the 5 claim units in Chambers Township. The Pb-Ag-Cu-Zn-Au prospect (number 3) is located southeast of Nellem Lake [scale 1:31,680].

1=mafic-intermediate metavolcanics; 2=felsic-intermediate volcanics; 4=metasediments; 5=mafic-ultramafic intrusives; 6=hypabyssal felsic intrusives; 7=granitic plutonic rocks; 8=mafic intrusives; 11=olivine diabase dyke

of massive sphalerite, galena and lead are reported. A grab sample of heavy sulphide mineralization assayed 0.13 oz/t (4.46 g/t) and trace silver. No other values are reported.

Current Work

Both the Nellem Lake and Crash Lake properties were visited by the author in order to conduct reconnaissance (grid) bedrock mapping and sampling (see maps in back pocket). Results from the sampling are pending.

At the **Nellem Lake** property, several trenches were visited from which previously described surface mineralization could be confirmed. The mineralization is traceable at surface for a strike length of >60m (~35az) and contains appreciable amounts of sphalerite (Zn) galena (Pb) and chalcopyrite (Cu). The sulphide mineralization is concentrated within several veins of massive quartz but is also present within the contact rocks (sheared metavolcanic rocks). Although metavolcanic rocks appear to host most of the quartz veining, gabbroic rocks are exposed in several of the trenches where they are within metres of the quartz veining. The irregular body of quartz porphyry, reported by earlier exploration work, was not observed. However, quartz porphyry inclusions and sericitized inclusions were observed within the massive quartz vein itself and within the brecciated host rock.

A zone of brecciated and carbonitized metavolcanic rocks is exposed along the northwest end of Trench 1 (see map). This same zone is also exposed along a southwest-trending ridge about 12 m north-northwest of the trenches. Mineralization is concentrated within the quartz veining where it consists of about 5-10% galena + sphalerite and <3% chalcopyrite. The brecciated host metavolcanic rocks contain about 2% galena + sphalerite + chalcopyrite. Quartz porphyry inclusions and sericitized inclusions occur within the thicker parts of the quartz veining and within some of the brecciated metavolcanic rocks.

Several samples, including mineralized quartz veining, mineralized host metavolcanic rocks and mineralized gabbro, were collected for assay - results are still pending.

At the **Crash Lake** property, reconnaissance grid mapping revealed scattered areas of mineralization (see map). Along the north claim line, the contact between a medium-grained pink-weathering granitic rock (quartz monzonite?) and mafic to intermediate metavolcanic rock is exposed. The contact region is strongly sheared over a width of about 0.5 m. The shear zone consists of chlorite schist with fragments of quartz-carbonate veins and fragments of metavolcanic and granitic rocks. Mineralization in the shear is finely disseminated with <1% pyrite. Metavolcanic rocks within about 0.5 m of the contact and/or shear zone have about 1% pyrite with subordinate chalcopyrite. The granitic rock contains <1% pyrite as cubes and occasional blebs.

Several mafic intrusive rocks (gabbro) are found exposed within the middle area of the eastern part of the claim, north of Crash Lake. Although for the most part these rocks are barren, minor sulphide mineralization was noted at one location (see map). The mineralization consisted of bleb and disseminated sulphide with up to 2% pyrite (py), chalcopyrite (cpy) and pyrrhotite (po). Where mineralized, the gabbroic rocks show signs of extensive alteration and metamorphism with numerous patches of epidote and chlorite veining. Occasional quartz-carbonate veins and veinlets also cross-cut the gabbro.

The northwest-trending fault that cuts across Crash Lake, becomes very evident within the northwest inlet on Crash Lake. The fault zone is defined by highly sheared and silicified metavolcanic rocks. Quartz-carbonate veins predominate throughout the fault and mineralization is scattered and typically <1% total sulphide.

TABLE 1. Samples collected for assay - Crash Lake and Nellem Lake properties

Sample No.	Location	Description
CL98-01	Crash Lake - north claim line	m.g. granitoid (quartz monzonite?); <1% sulphide
CL98-02	Crash Lake - north claim line	sheared volcanic; 1% sulphide
CL98-03	Crash Lake - north claim line	chlorite schist from shear zone; <1% sulphide
CL98-04	Crash Lake - north shore	m.g. gabbro; 2% sulphide
CL98-05	Crash Lake - north shore fault	sheared and silicified volcanic; 1% sulphide
CL98-07	Nellem Lake - trench 5	m.g. gabbro; <1% sulphide
CL98-08A	Nellem Lake - trench 4	quartz vein with sericitic inclusions; 10% sulphide
CL98-08B	Nellem Lake - trench 4	silicified volcanic with quartz veins; 15% sulphide
CL98-09A	Nellem Lake - trench 3	quartz vein with volcanic fragments; 10% sulphide
CL98-09B	Nellem Lake - trench 3	quartz vein with sheared volcanics; 5% sulphide
CL98-10A	Nellem Lake - trench 1	quartz vein with sericitic inclusions; 5% sulphide
CL98-10B	Nellem Lake - trench 1	massive quartz vein; 10% sulphide
CL98-10C	Nellem Lake - trench 1	silicified and brecciated volcanics; 10% sulphide
CL98-11	Nellem Lake - north of trenches	silicified and brecciated volcanics; 5% sulphide

m.g. = medium grained

RECOMMENDATIONS

The anomalous assay results and geological environment of these prospects warrants further exploration in order to evaluate their potential for hosting economic Pb-Ag-Cu-Zn and Au mineralization.

It is recommended that an exploration grid be established on both the Nellem and Crash Lake properties and that a program consisting of geological mapping, lithogeochemical sampling, ground geophysical survey and power washing be undertaken in order to define the extent of mineralization and provide future exploration targets.

<u>CHAMBERS TOWNSHIP - Nellem Lake property</u>		
Line-Cutting (2.2 km) claim 1223094	- 400m baseline - 6 x 300m lines at 50m spacing - 25m station intervals	\$660.00
Geophysical Survey	VLF-EM (2.8 km)	\$225.00
	Self-Potential (2.8 km)	\$225.00
Power Washing	clearing (general labour)	\$850.00
	pump & hose rental	\$650.00
Geological Mapping	grid/reconnaissance/detail	\$900.00
Assays	20 samples - 32 element + Au	\$700.00
Field Expenses	travel, accommodations etc.	\$800.00
Reports		\$500.00
ESTIMATED TOTAL:		\$5460.00

<u>CHAMBERS TOWNSHIP - Crash Lake property</u>		
Line-Cutting (6.0 km) - winter grid	- use north claim line as baseline - 15 x 400m lines at 50m spacing - 25m station intervals	\$1800.00
Geophysical Survey	VLF-EM (6.8 km)	\$550.00
Geological Mapping	grid/reconnaissance	\$600.00
Assays	20 samples - 32 element + Au	\$700.00
Field Expenses	travel, accommodations etc.	\$450.00
Reports		\$400.00
ESTIMATED TOTAL:		\$4500.00

The structure in the area, which consists of cross-cutting and intersecting features such as regional northwest-trending faults, north-west trending olivine gabbro dykes, east-west trending shear zones and north-south trending mafic (gabbroic) dykes, provides a very promising environment for potential mineralization.

Mineralization types to explore for include shear-hosted gold related to the regional fault and shear zones, Au deposits related to contacts between the granitic rocks and the

metavolcanic rocks, Cu-Ni and platinum group element deposits related to the mafic intrusive rocks and Pb-Ag-Zn-Cu + Au deposits related to quartz veins and their associated alteration systems. In addition, there is the possibility for deep-seated volcanogenic massive sulphide deposits comprising Pb-Ag-Zn-Cu and Au.

2. 1889

REFERENCES

Bennett, G., 1978. Geology of the Northeast Temagami Area, District of Nipissing. Ontario Geological Survey, Report 163, p. 1-75.

CERTIFICATE OF QUALIFICATION

I, Scott Jobin-Bevans of London, Ontario, do hereby certify that:

1. I am a consulting geologist with the geological exploration company DTE Exploration & Development of London, Ontario.
2. I am a graduate of the University of Manitoba, Winnipeg, Manitoba with a B.Sc. (Hons.) Geology - 1995, and an M.Sc. Geology - 1997.
3. I am a member of the Society of Economic Geologists and the Canadian Institute of Mining, Metallurgy and Petroleum.
4. I have been an exploration geologist and prospector for nine years.
5. I have an active prospector's license for the province of Ontario (# H14027).
6. I have not received any direct or indirect interest in Heritage Exploration.
7. This report is intended to be an overview of the potential of the properties with recommendations and conclusions that are based solely on the available data.



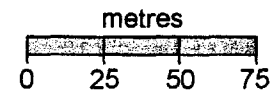
Scott Jobin-Bevans (B.Sc., M.Sc. Geology)
Sept. 18, 1998

Nellem Lake Pb-Ag-Zn-Cu and Au Property
Chambers Township, Ontario

General geology, location of exploration grid,
trenches and sample locations

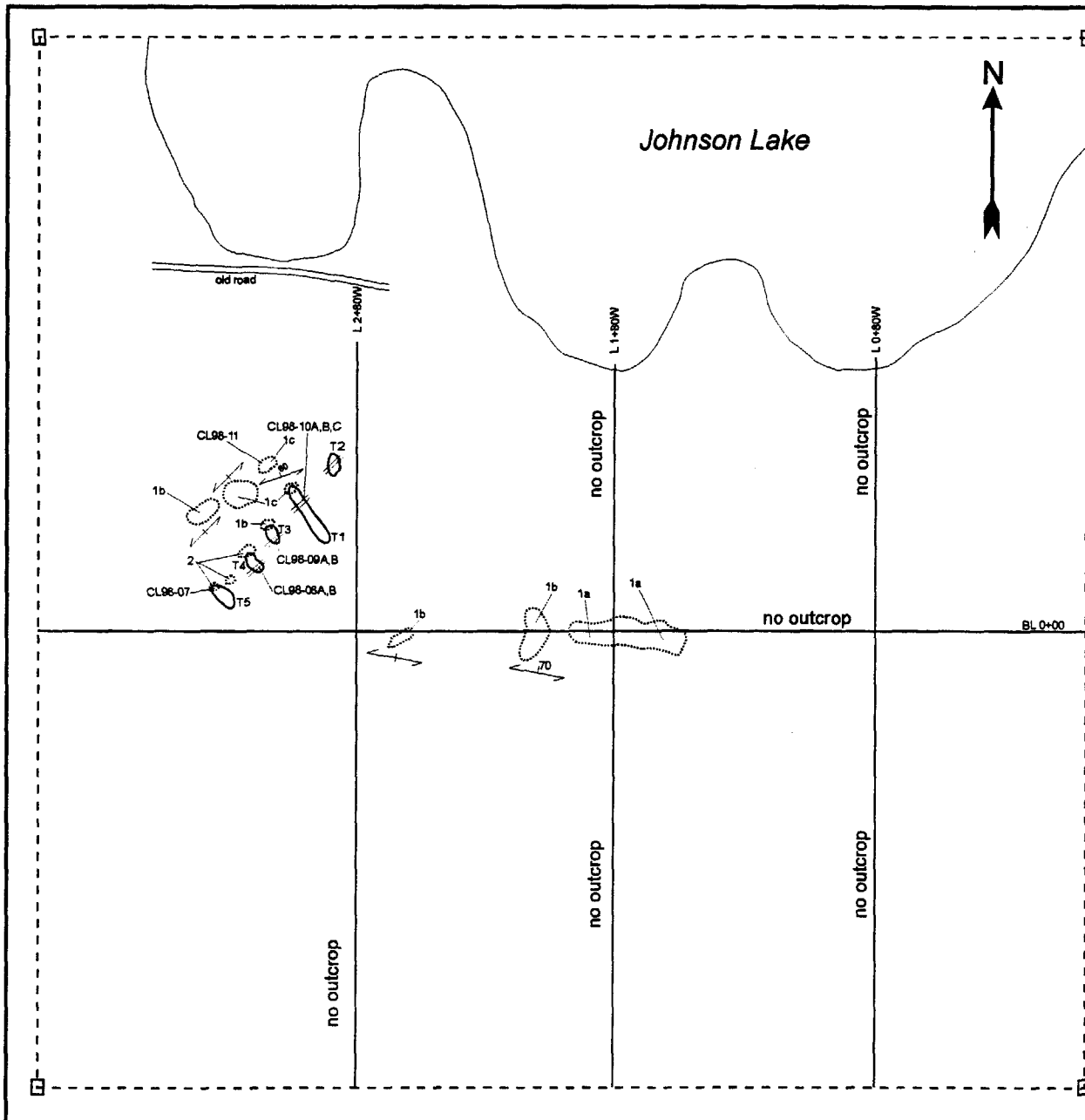
- 2 medium-grained gabbro
- massive quartz vein: variably mineralized with galena-sphalerite-chalcopyrite-pyrite
- 1 metavolcanic rock: a) intermediate to felsic; b) sheared; c) brecciated with quartz stockwork
- foliation: strike and dip indicated
- extent of outcrop
- CL98-08 sample location
- T5 trench
- - claim line/post

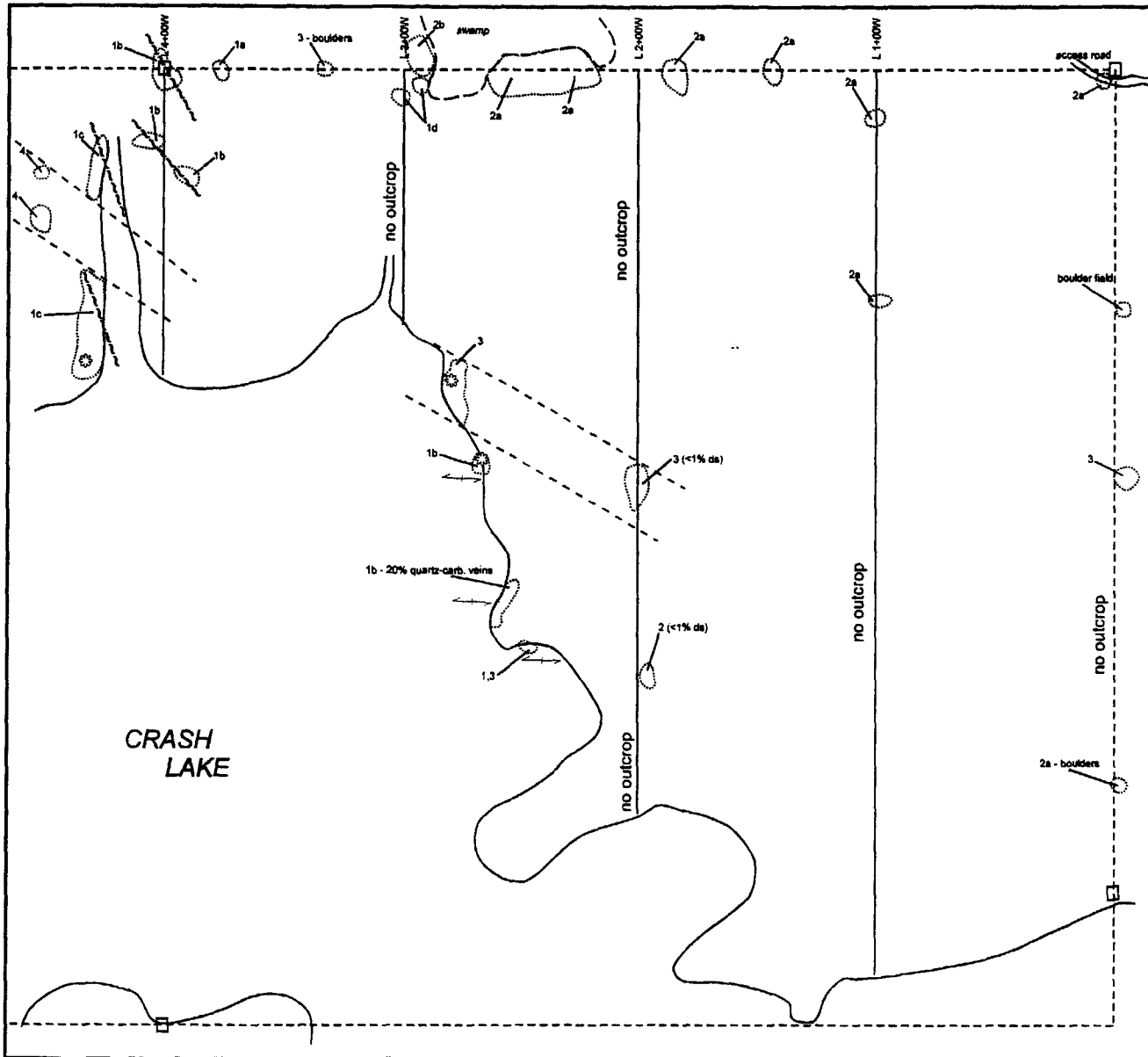
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Mining claim 1223094

Drafted by: DTE Exploration & Development 08/14/98



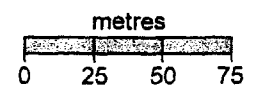


Crash Lake Property - Eastern Half
Chambers Township, Ontario

General geology, location of exploration grid,
and sample locations

- 4 magnetite-bearing olivine gabbro dyke
- 3 medium-grained gabbro
- 2 felsic intrusive: a) quartz monzonite;
b) with fragments of phryic-volcanics
- 1 metavolcanic rock: a) intermediate to felsic;
b) sheared; c) silicified and fractured/sheared;
d) agglomerate
- fault - shear zone: strike and dip indicated
- foliation: strike and dip indicated
- geological contact: assumed
- extent of outcrop
- >1% sulphide (ds = disseminated sulphide)
- CL98-02 sample location
- claim line/post

2. 18831



Mining claim 1223093



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SAMPLE ASSAY RESULTS

Addendum to:

*Base Metal and Gold Prospects in Chambers Township
Northeast Temagami Area, Ontario*

Original Report Prepared September 14, 1998
for Richard W. Rintala, Lively, Ontario



SUMMARY

Richard W. Rintala (Heritage Exploration) currently holds a series of unpatented mining claims in Chambers Township, Ontario (see Fig. 1 - Sept. 14, 1998 Report). The mining claims encompass 5 claim units with the following distribution:

<u>Property</u>	<u>Claim Number</u>	<u>Claim Units</u>	<u>Area (ha)</u>
Nellem Lake	1223092	1.1	17.6
	1223094, 1223098	2	32
Crash Lake	1223093	2	32
TOTAL:			81.6

The following, is a summary of the assay results from the Crash Lake and Nellem Lake properties in Chambers Township. Included are the sample location maps, tabulated results, and assay certificates.

The anomalous assay results and geological environment of these prospects warrants further exploration in order to evaluate their potential, and the potential of the immediate area, for hosting economic lead (Pb), silver (Ag), copper (Cu), zinc (Zn) and gold (Au) mineralization.

SCHEDULE A

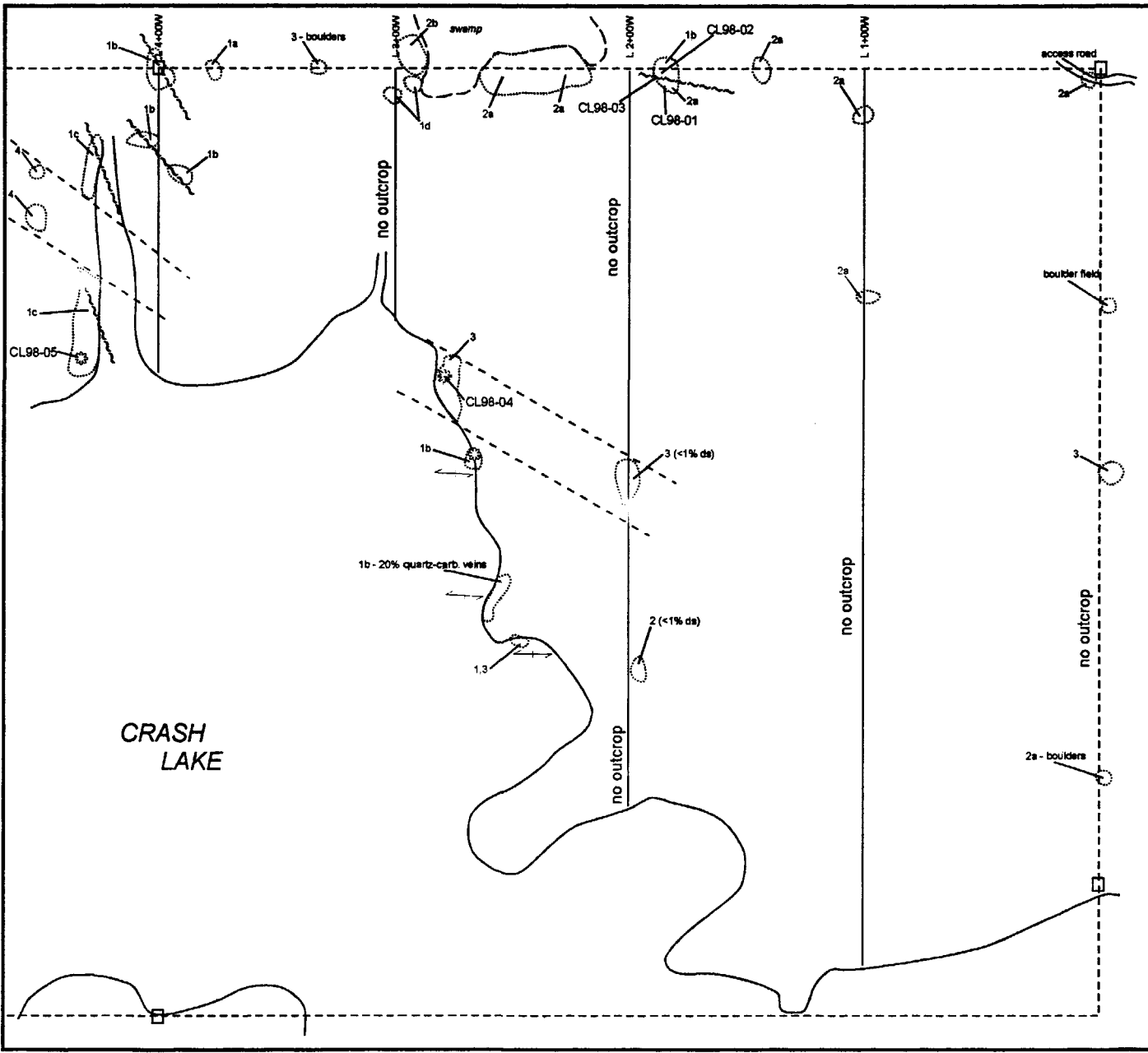
**Samples from Crash Lake and Nellem Lake properties
Assayed by Accurassay Laboratories, Thunder Bay, Ontario**

Sample	Location	Description	Pd (ppb)	Au (ppb)	Pt (ppb)	Ag (ppm)	Cu (ppm)	Zn (ppm)	Pb (ppm)
CL98-01	Crash Lake - north claim line	m.g. granitoid (quartz monzonite?) <1% sulphide	na	<5	na	tr	15	7	2
CL98-02	Crash Lake - north claim line	sheared volcanic 1% sulphide	na	5	na	tr	51	60	7
CL98-03	Crash Lake - north claim line	chlorite schist from shear zone <1% sulphide	na	<5	na	tr	35	96	12
CL98-04	Crash Lake - north shore	m.g. gabbro 2% sulphide	<10	<5	<15	tr	134	59	5
CL98-05	Crash Lake - north shore fault	sheared and silicified volcanic 1% sulphide	na	9	na	tr	37	115	6
CL98-07	Nellem Lake - trench 5	m.g. gabbro <1% sulphide	<10	<5	<15	tr	140	56	13
CL98-08A	Nellem Lake - trench 4	quartz vein with sericitic inclusions; 10% sulphide	na	12	na	1.7	466	4055	2852
CL98-08B	Nellem Lake - trench 4	silicified volcanic with quartz veins 15% sulphide	na	91	na	0.5	135	179	237
CL98-09A	Nellem Lake - trench 3	quartz vein with volcanic fragments 10% sulphide	na	328	na	5.5	491	13431	6650
CL98-09B	Nellem Lake - trench 3	quartz vein with sheared volcanics 5% sulphide	na	478	na	3.7	525	742	305
CL98-10A	Nellem Lake - trench 1	quartz vein with sericitic inclusions 5% sulphide	na	466	na	22.0	12191	12023	1918
CL98-10B	Nellem Lake - trench 1	massive quartz vein 10% sulphide	na	453	na	14.6	8970	10577	1866
CL98-10C	Nellem Lake - trench 1	silicified and brecciated volcanics 10% sulphide	na	527	na	13.9	6647	4216	1020
CL98-11	Nellem Lake - north of trenches	silicified and brecciated volcanics 5% sulphide	na	551	na	5.1	324	1177	2577

m.g. = medium grained

Sample # Tag#

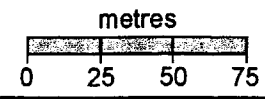
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CL98-02	50352
CL98-03	50353
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CL98-07	50356
CL98-08A	50357
CL98-08B	50358
CL98-09A	50359
CL98-09B	50365
CL98-10A	50360
CL98-10B	50361
CL98-10C	50362
CL98-11	50363



**Crash Lake Property - Eastern Half
Chambers Township, Ontario**

**General geology, location of exploration grid,
and sample locations**

- 4** magnetite-bearing olivine gabbro dyke
- 3** medium-grained gabbro
- 2** felsic intrusive: a) quartz monzonite; b) with fragments of phytic-volcanics
- 1** metavolcanic rock: a) intermediate to felsic; b) sheared; c) silicified and fractured/sheared; d) agglomerate
- fault - shear zone: strike and dip indicated
- foliation: strike and dip indicated
- geological contact: assumed
- extent of outcrop
- ☆ >1% sulphide (ds = disseminated sulphide)
- CL98-02 sample location
- --- claim line/post

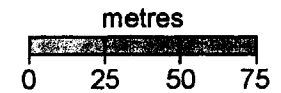


Mining claim 1223093

Nellem Lake Pb-Ag-Zn-Cu and Au Property
Chambers Township, Ontario

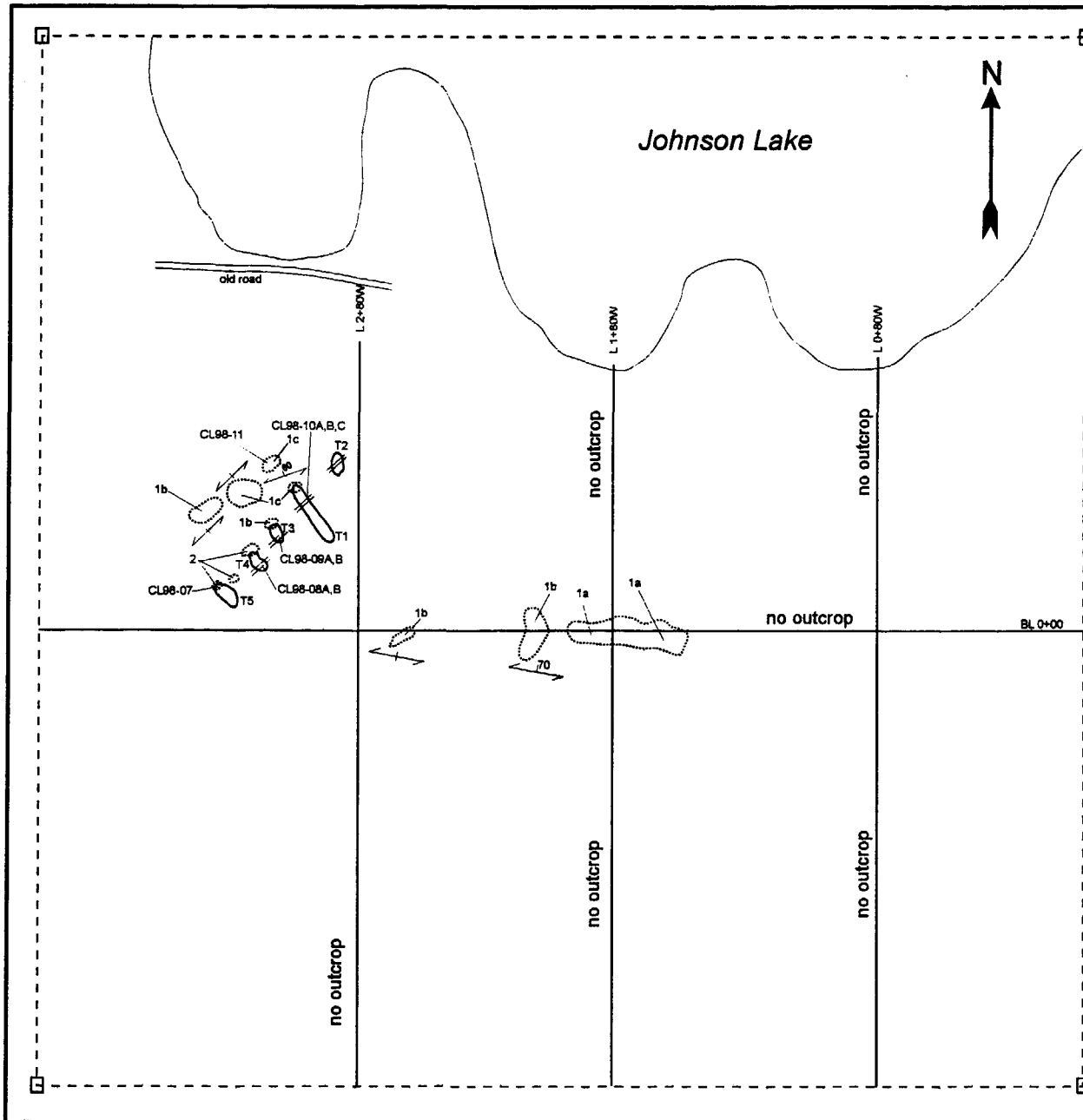
General geology, location of exploration grid, trenches and sample locations

- 2 medium-grained gabbro
- massive quartz vein: variably mineralized with galena-sphalerite-chalcopyrite-pyrite
- 1 metavolcanic rock: a) intermediate to felsic; b) sheared; c) brecciated with quartz stockwork
- foliation: strike and dip indicated
- extent of outcrop
- CL98-08 sample location
- T5 trench
- claim line/post



Mining claim 1223094

Drafted by: DTE Exploration & Development 08/14/98



ACCURASSAY LABORATORIES A DIVISION OF ASSAY LABORATORY SERVICES INC.

Rick Rintala
 c/o Rintala Construction Co. Ltd.
 377 Black Lake Rd.
 Lively, Ontario
 P3Y 1H8
 Fax1 (705) 522-2951
 Fax2 (705) 692-5971

1070 LITHIUM DRIVE, UNIT 2
 THUNDER BAY, ONTARIO P7B 6G3
 PHONE (807) 623-6448
 FAX (807) 623-6820

Page 1
 Sep 21, 1998

Job# 9840680

SAMPLE #		Palladium	Gold	Platinum
Accurassay	Customer	ppb	ppb	ppb
1	50351		<5	
2	50352		5	
3	50353		<5	
4	50354	<10	<5	<15
5	50355		9	
6	50356	<10	<5	<15
7	50357		12	
8	50358		91	
9	50359		328	
10	50360		466	
11	Check 50360		451	
12	50361		453	
13	50362		527	
14	50363		551	
15	50364	<10	5	<15
16	50365		478	

Certified By:



ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Rick Rintala
c/o Rintala Construction Co. Ltd.
377 Black Lake Rd.
Lively, Ontario
P3Y 1H8
Fax (705) 522-2951

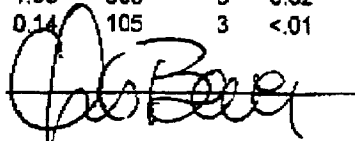
Page 1

Oct 2, 1998

Job #9840680

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
50351	<1	0.20	<2	19	19	0.6	<3	0.13	<5	<2	185	15	0.96	0.11	5	0.04	97	2	0.07	3	13	2	<2	<5	0.03	<5	6	<0.01	2	<2	7
50352	<1	1.20	10	11	78	0.7	<3	1.49	<5	10	81	51	3.57	0.35	19	0.79	512	4	0.04	15	294	7	7	<5	0.03	<5	31	0.09	12	<2	60
50353	<1	3.41	4	19	23	1.3	11	2.20	0.6	30	682	35	4.12	0.18	15	4.69	976	1	0.02	271	1548	12	18	<5	0.03	<5	53	0.12	66	<2	96
50354	<1	1.68	<2	15	10	0.4	<3	0.91	<5	25	72	134	3.71	0.05	2	1.27	548	1	0.07	44	423	5	10	<5	0.02	<5	31	0.23	89	<2	59
50355	<1	3.95	9	15	45	0.8	9	0.98	<5	34	58	37	8.28	0.50	4	3.36	1471	18	0.02	81	404	6	29	<5	0.02	<5	9	0.20	185	<2	115
50356	<1	2.29	12	18	7	0.3	<3	1.07	0.6	19	133	140	4.01	0.03	4	1.84	715	3	0.04	75	198	13	14	<5	0.02	<5	20	0.25	91	<2	56
50357	1.7	0.89	9	18	33	0.3	<3	0.52	16.8	13	243	466	1.96	0.20	<1	0.49	321	6	<0.01	39	747	2852	11	<5	0.03	<5	5	0.05	18	<2	4055
50358	<1	1.27	134	20	38	0.3	<3	0.44	<5	37	178	135	4.85	0.25	<1	0.73	474	3	<0.01	90	<10	237	3	<5	0.03	<5	4	0.05	33	<2	179
50359	5.5	0.15	16	20	10	0.1	<3	0.26	90.1	12	314	491	0.74	0.05	<1	0.07	104	18	<0.01	17	1875	6650	36	<5	0.03	<5	3	0.01	2	<2	13431
50360	22.0	0.10	10	22	18	0.2	<3	1.93	73.1	18	285	12191	1.44	0.08	4	0.02	499	103	0.01	12	1738	1918	42	<5	0.03	<5	12	<0.01	2	<2	12023
50361	14.6	0.24	11	22	36	0.2	<3	0.95	62.7	12	185	6970	1.16	0.19	<1	0.02	259	284	0.01	8	1655	1866	37	<5	0.05	<5	8	0.03	3	<2	10577
50362	13.9	0.21	4	20	32	0.3	<3	2.48	24.0	9	219	6647	0.86	0.17	5	0.03	563	28	0.01	10	649	1020	16	<5	0.03	<5	14	<0.01	<1	<2	4216
50363	5.1	0.34	3	13	32	0.2	<3	0.02	8.0	<2	187	324	0.50	0.25	<1	0.03	36	4	<0.01	3	<10	2577	<2	<5	0.04	<5	2	<0.01	<1	<2	1177
50364	0.2	1.26	<2	17	93	0.7	6	1.37	1.0	35	114	97	8.15	0.33	20	1.90	999	5	0.32	57	6057	23	25	<5	0.04	<5	74	0.25	194	<2	123
50365	3.7	0.53	87	21	55	0.2	<3	0.13	4.6	29	174	525	1.90	0.32	<1	0.14	105	3	<0.01	46	481	305	<2	<5	0.04	<5	2	0.09	16	<2	742

Certified By:



CERTIFICATE OF QUALIFICATION

I, Scott Jobin-Bevans of 225 Ferndale Ave., Sudbury, Ontario, do hereby certify that:

1. I am a consulting geologist with the geological exploration company DTE Exploration & Development of Sudbury, Ontario.
2. I am a graduate of the University of Manitoba, Winnipeg, Manitoba with a B.Sc. (Hons.) Geology - 1995, and an M.Sc. Geology - 1997.
3. I am a member of the Society of Economic Geologists and the Canadian Institute of Mining, Metallurgy and Petroleum.
4. I have been an exploration geologist and prospector for nine years.
5. I have an active prospector's license for the province of Ontario (# H14027).
6. I have not received any direct or indirect interest in Heritage Exploration.
7. This report is intended to be an overview of the potential of the properties with recommendations and conclusions that are based solely on the available data.



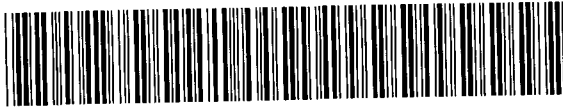
Scott Jobin-Bevans (B.Sc., M.Sc. Geology)
Jan. 11, 1999



Declaration of Assessment Work Performed on Mining Land

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

Transaction Number (office use) W9870.00538 Assessment Files Research Imaging



31M04SW2018 2.18831 CHAMBERS 900

Sections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, this work and correspond with the mining land holder. Questions about this collection and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240. - Please type or print in ink.

2.18831

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

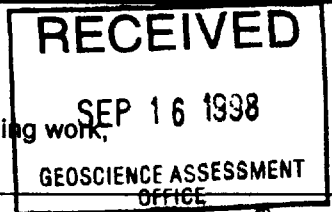
Form for recorded holder(s) with fields for Name, Address, Client Number, Telephone Number, and Fax Number. Includes handwritten entry for Richard Rintala.

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

Geotechnical: prospecting, surveys, assays and work under section 18 (regs) [checked] Physical: drilling stripping, trenching and associated assays [unchecked] Rehabilitation [unchecked]

Work Type section with fields for Office Use, Commodity, Total \$ Value of Work Claimed, NTS Reference, Dates Work Performed, Global Positioning System Data, Township/Area, Mining Division, Resident Geologist District.

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



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

Form for person or companies who prepared the technical report with fields for Name, Address, Telephone Number, and Fax Number. Includes handwritten entry for Scott Lubin-Beyans.

4. Certification by Recorded Holder or Agent

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

Signature of Recorded Holder or Agent and Date fields. Includes handwritten signature and date SEP 16 1998.

Agent's Address, Telephone Number, and Fax Number fields. Includes handwritten address and phone numbers.

Dec 15 1998

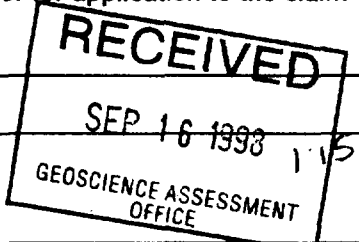
5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W9870.00538 **2. 18831**

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$ 8,892	\$ 4,000	0	\$4,892
1 1223093	2	1068.19 490 ML	800	0	268.19
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals	2	1068.19	800	0	268.19

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

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: SEPT. 16/98



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

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

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

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

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		



Declaration of Assessment Work Performed on Mining Land

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

Transaction Number (office use)
W9870.00539
Assessment Files Research Imaging

Personal information collected on this form is obtained under the authority of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, this information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240.
- Please type or print in ink.

2. 18831

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

Name <i>RICHARD RINTALA</i>	Client Number <i>187631</i>
Address <i>54 JACOB ST LIVERLY ONT P3Y1E3</i>	Telephone Number <i>692-3648 off</i>
	Fax Number <i>692-5971</i>
Name	Client Number
Address	Telephone Number
	Fax Number

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

Geotechnical: prospecting, surveys, assays and work under section 18 (regs) Physical: drilling stripping, trenching and associated assays Rehabilitation

Work Type <i>PROSPECTING</i>	Office Use
	Commodity <i>1</i>
	Total \$ Value of Work Claimed <i>1374</i>
Dates Work Performed From <i>01</i> Day <i>09</i> Month <i>98</i> Year To <i>16</i> Day <i>09</i> Month <i>98</i> Year ✓	NTS Reference
Global Positioning System Data (if available)	Mining Division <i>Sudbury</i>
Township/Area <i>CHANDLERS</i>	Resident Geologist District <i>Kirkland Lake</i>
M or G-Plan Number <i>G-3416</i>	

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

RECEIVED
SEP 16 1998
GEOSCIENCE ASSESSMENT OFFICE
1:15 PM

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

Name <i>SCOTT JOBIN-BEJANS</i>	Telephone Number <i>705-690-0765</i>
Address <i>512 PLATT RD. LANE LONDON N6G5E4</i>	Fax Number
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

4. Certification by Recorded Holder or Agent

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

Signature of Recorded Holder or Agent <i>[Signature]</i>	Date <i>SEP 16 1998</i>
Agent's Address <i>54 JACOB ST LIVERLY P3Y1E3</i>	Telephone Number <i>692-3648</i>
	Fax Number <i>692-5971</i>

Dec 15/98

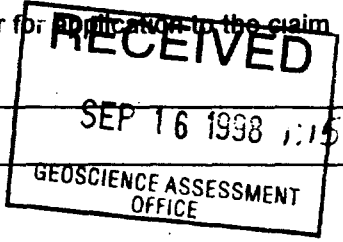
5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W9870.00539 **2.18831**

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$ 8,892	\$ 4,000	0	\$4,892
1 122 3094	1	1374. ¹⁰	400'	800	174. ¹⁰
2 122 3092	1	0	400'		-
3 122 3098	1	0	400'		-
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals	3	1374.¹⁰	1200	800	174.¹⁰

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

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: SEPT 16 / 98



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

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

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

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

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 696. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

1229094 ET 11

Work Type	Units of Work <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.</small>	Cost Per Unit of work	Total Cost
Cut Grid Line	1.0 Km Grid 1 Day	250. ⁰⁰ / DAY	250. ⁰⁰
SAMPLE COLLECTION	9 SAMPLES 1 DAY	150. ⁰⁰ / DAY	150. ⁰⁰
GEOLOGICAL MAPPING	2 DAYS	350 / DAY	700. ⁰⁰
GEOLOGICAL REPORT	8 HRS.	\$ 20 / HR.	160. ⁰⁰
Associated Costs (e.g. supplies, mobilization and demobilization).			
Transportation Costs		GAS	35.74
Food and Lodging Costs		Food	78. ⁵⁶

Total Value of Assessment Work 1374.¹⁰

RECEIVED
SEP 16 1998 1:19
GEOSCIENCE ASSESSMENT OFFICE

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK $\times 0.50 =$ Total \$ value of worked claimed.

Note:

- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, Richard Rintala (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as [Signature] I am authorized (recorded holder, agent, or state company position with signing authority) to make this certification.
"RECORDED HOLDER"

Signature: [Signature] Date: SEP 16 1998

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

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

January 25, 1999

RICHARD WAYNE RINTALA
54 JACOB STREET
LIVELY, Ontario
P0M-2R0

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

Dear Sir or Madam:

Submission Number: 2.18831

Status

Subject: Transaction Number(s): W9870.00538 Approval After Notice
W9870.00539 Approval After Notice

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

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

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

If you have any questions regarding this correspondence, please contact Bruce Gates by e-mail at bruce.gates@ndm.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,



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

Work Report Assessment Results

Submission Number: 2.18831

Date Correspondence Sent: January 25, 1999

Assessor: Bruce Gates

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9870.00538	1223093	CHAMBERS	Approval After Notice	January 23, 1999

Section:
12 Geological GEOL

The revisions outlined in the Notice dated December 9, 1998, have been corrected. An additional \$136 has been added for the analyses submitted.

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9870.00539	1223094	CHAMBERS	Approval After Notice	January 23, 1999

Section:
12 Geological GEOL

The revisions outlined in the Notice dated December 9, 1998, have been corrected. An additional \$246 has been added for the analyses submitted.

Correspondence to:
Resident Geologist
Kirkland Lake, ON

Recorded Holder(s) and/or Agent(s):
RICHARD WAYNE RINTALA
LIVELY, Ontario

Assessment Files Library
Sudbury, ON

Distribution of Assessment Work Credit

The following credit distribution reflects the value of assessment work performed on the mining land(s).

Date: January 25, 1999

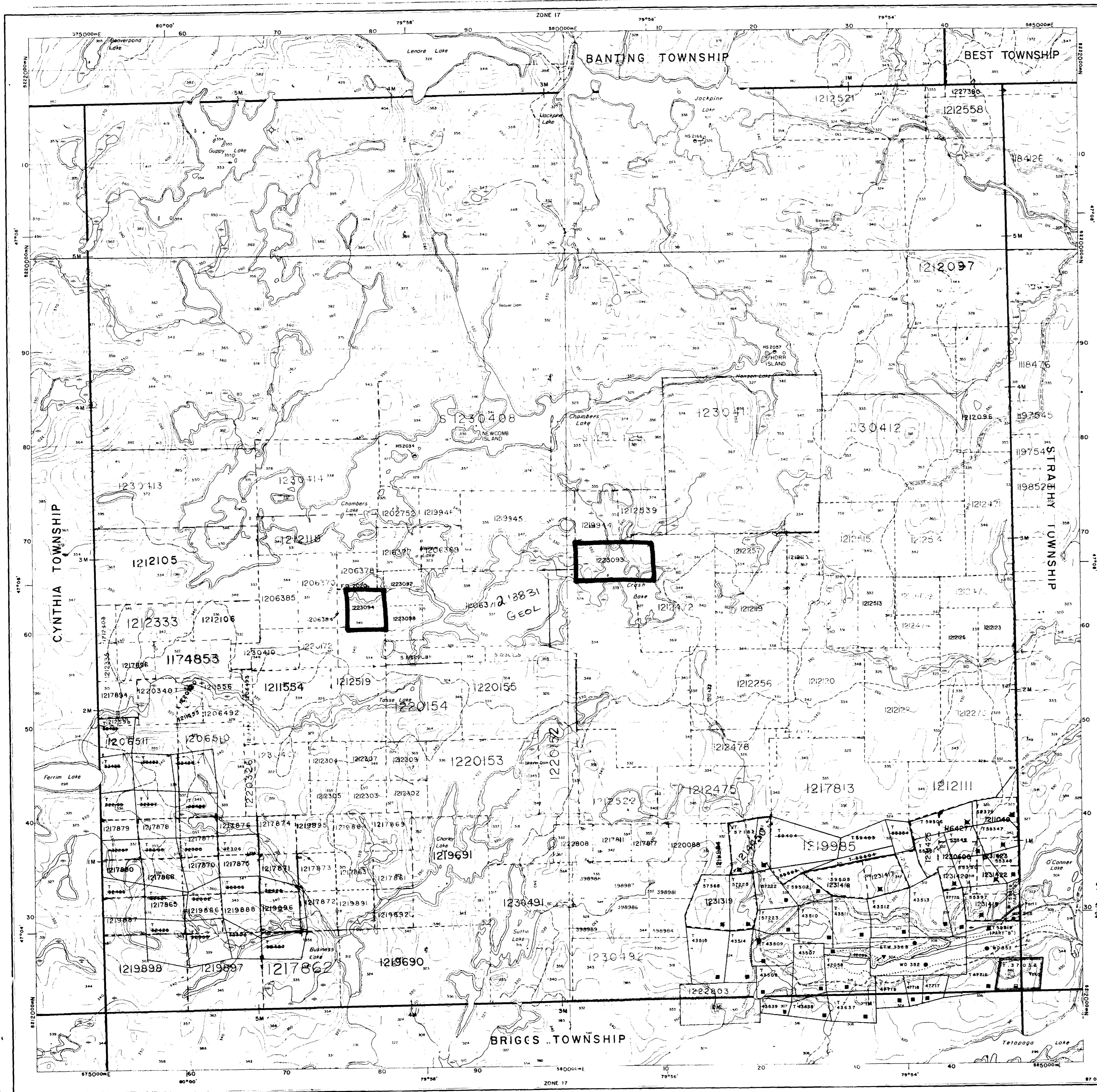
Submission Number: 2.18831


Transaction Number: W9870.00538

<u>Claim Number</u>	<u>Value Of Work Performed</u>
1223093	1,204.00
	<hr/>
Total: \$	1,204.00

Transaction Number: W9870.00539

<u>Claim Number</u>	<u>Value Of Work Performed</u>
1223094	1,620.00
	<hr/>
Total: \$	1,620.00

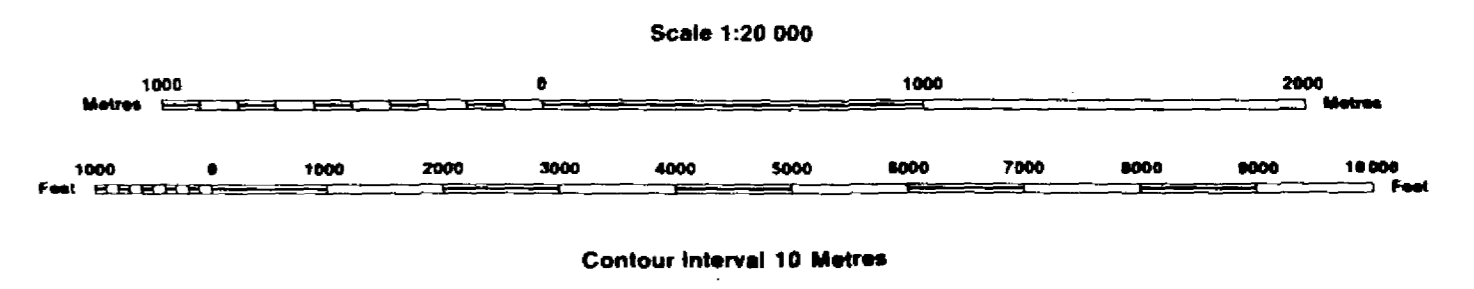


 Ministry of Natural Resources
 Ministry of Northern Development and Mines

INDEX TO LAND DISPOSITION

PLAN
G-3416
 TOWNSHIP
CHAMBERS

M.N.R. ADMINISTRATIVE DISTRICT
TEMAGAMI
 MINING DIVISION
SUDBURY
 LAND TITLES/REGISTRY DIVISION
NIPISSING



N. SERVICE JANUARY 10, 1990

DATE OF ISSUE
MAR 31 1998
 PROVINCIAL RECORDING
 OFFICE - SUDBURY

AREAS WITHDRAWN FROM DISPOSITION
 MRO - Mining Rights Only
 SRO - Surface Rights Only
 M + S - Mining and Surface Rights

SYMBOLS

Boundary	.....
Township, Meridian, Baseline	.....
Road allowance; surveyed	.....
shoreline	.....
Lot/Concession; surveyed	.....
unsurveyed	.....
Parcel; surveyed	.....
unsurveyed	.....
Right-of-way; road	.....
utility	.....
Reservation	.....
Cliff, Pit, Pile	.....
Contour	.....
Interpolated	.....
Approximate	.....
Depression	.....
Control point (horizontal)	.....
Flooded land	.....
Mine head frame	.....
Pipeline (above ground)	.....
Railway; single track	.....
double track	.....
abandoned	.....
Road; highway, county, township	.....
access	.....
trail, bush	.....
Shoreline (original)	.....
Transmission line	.....
Wooded area	.....

Description	Order No.	Date	Disposition	File
SEC. 35/90	W-5-55/98	NOV. 27/98	MBS	19515Q

THIS TOWNSHIP FALLS WITHIN THE TEMAGAMI
 COMPREHENSIVE PLANNING AREA. SPECIAL WORKING
 CONDITIONS MAY APPLY TO EXPLORATION ACTIVITIES.
 FOR MORE DETAILS PLEASE CONTACT:
 DISTRICT MANAGER,
 NORTH BAY DISTRICT
 MINISTRY, NATURAL RESOURCES

NOTES

2. JUNE 1, 1994 OPENINGS ONTARIO GAZETTE
 VOL. 127-20 MAY, 1994, PAGE 1575

DISPOSITION OF CROWN LANDS

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	.....
Cancelled	.....
Reservation	.....
Sand & Gravel	.....
AND USE PERMIT	.....

THE INFORMATION THAT
 APPEARS ON THIS MAP
 HAS BEEN COMPILED
 FROM VARIOUS SOURCES
 AND ACCURACY IS NOT
 GUARANTEED. THOSE
 WISHING TO STAKE MIN-
 ING CLAIMS SHOULD CON-
 SULT WITH THE MINING
 RECORDER, MINISTRY OF
 NORTHERN DEVELOP-
 MENT AND MINES, FOR AD-
 DITIONAL INFORMATION
 ON THE STATUS OF THE
 LANDS SHOWN HEREON.

Map base and land disposition drafting by Surveys and Mapping
 Branch, Ministry of Natural Resources.

The disposition of land, location of lot fabric and parcel boundaries on
 this index was compiled for administrative purposes only.

