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**REPORT ON
ROCK AND HEAVY MINERAL SAMPLING
ON THE BLACK RIVER PROPERTY
GRIMSTHORPE TOWNSHIP, ONTARIO**

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Feb. 28, 2000

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REPORT ON ROCK AND HEAVY MINERAL SAMPLING ON THE BLACK RIVER PROPERTY GRIMSTHORPE TOWNSHIP, ONTARIO

I. INTRODUCTION

Scope

This report summarizes a program of rock sampling for gold and heavy mineral prospecting for kimberlite indicator minerals, diamond and gold on the Black River Property in Grimsthorpe Township, Ontario. Heavy mineral concentrates were derived from glacial till and stream gravels collected on the property. The program was initiated upon a rumor of a diamond discovery in southeastern Tudor Township which is situated to the west of Grimsthorpe Township.

Results of this survey are compiled on a 1:2,500 scale map included with this report.

Location and Access

The Black River Property is situated in the central region of Grimsthorpe Township located in the Southern Ontario Mining Division (Figure 1.).

The property has good road access (Figure 2). From the town of Gilmour, located on Highway 62 north on Madoc, access is made by traveling northeast for a distance of 4.7 kilometres on the paved Wadsworth Lake Road. Turning south on the Scootamatta Lake Access Road, the north region of Grimsthorpe Township is crossed by the road in the vicinity to the hydro transmission line. The intersection of the Lingham Lake Access Road is located 1.2 kilometres past the hydro transmission line. The Lingham Lake Road crosses the property 1.3 kilometres south of the intersection.

The property is covered by 1:50,000 scale topographic map 31C/11.

Claim Logistics and Ownership

The Black River Property encompasses seven units by four contiguous unpatented mining claims (Figure 3). Table 1 summarizes the property.

The four claims comprising the Black River Property are owned by Robert Dillman of Mount Brydges, Ontario and Jim Chard of Cordova Mines, Ontario.

Survey Dates and Personnel

Rock and heavy mineral samples were collected on the Black River Property between August 27, 1999 and August 29, 1999. Heavy mineral concentrates were processed between October 22, 1999 and October 24, 1999. Between October 1999 and December 1999, 52 hours were devoted towards searching the heavy mineral concentrates for kimberlite indicator minerals.

Rock samples and heavy mineral concentrates were collected by Robert Dillman and Jim Chard. Heavy mineral processing and petrologic examination of the heavy mineral concentrates was performed by Robert Dillman.

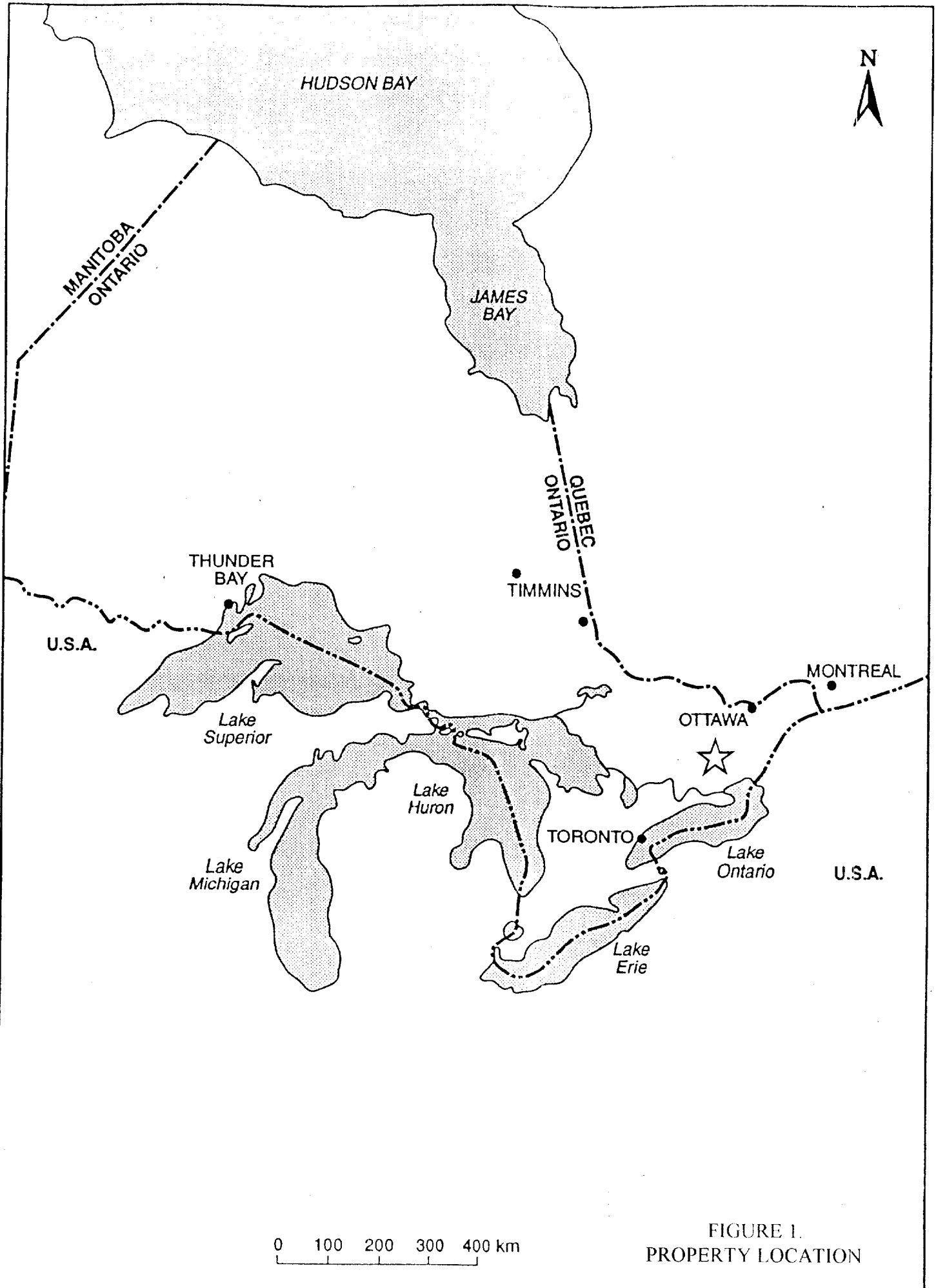


FIGURE 1.
PROPERTY LOCATION

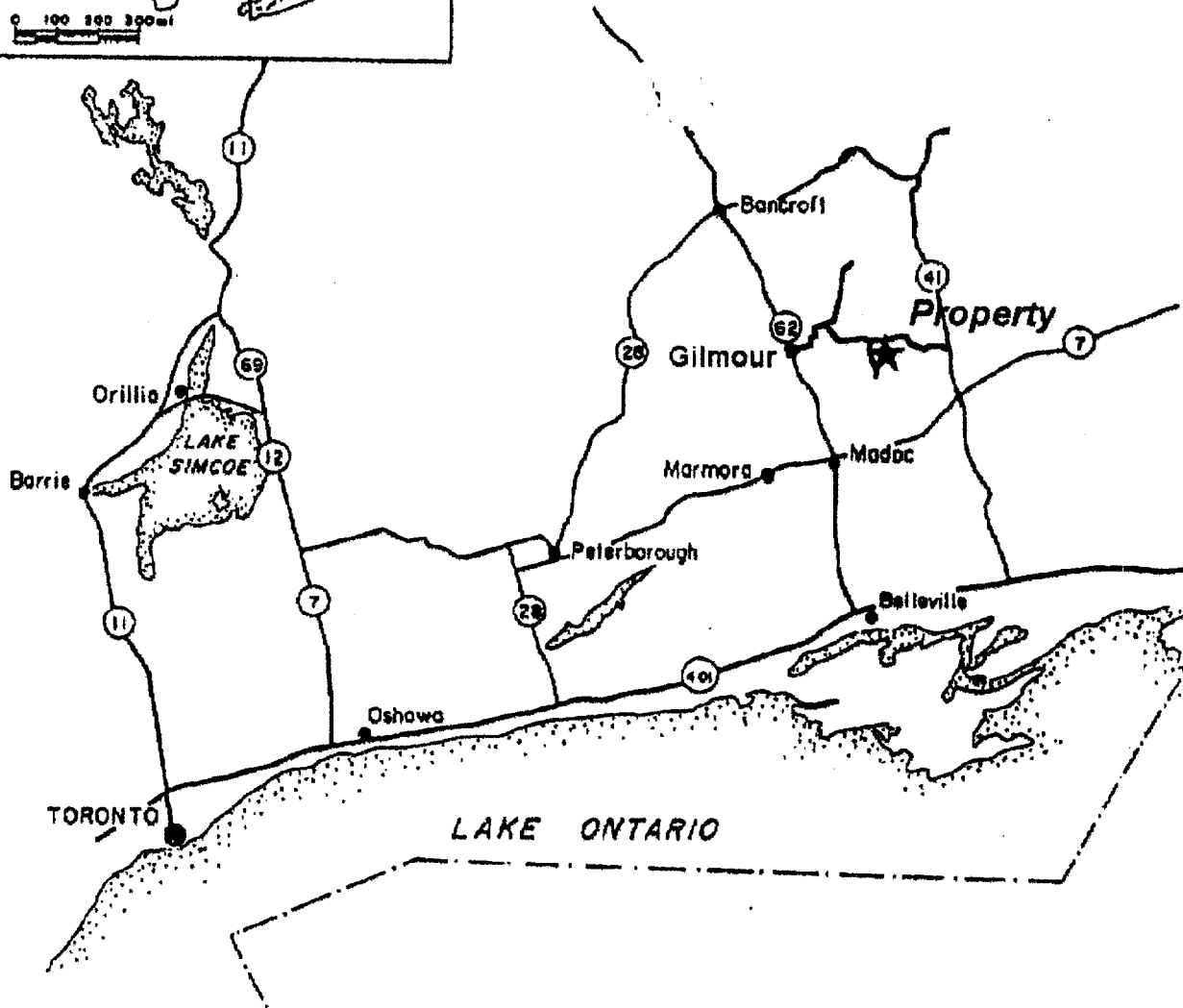
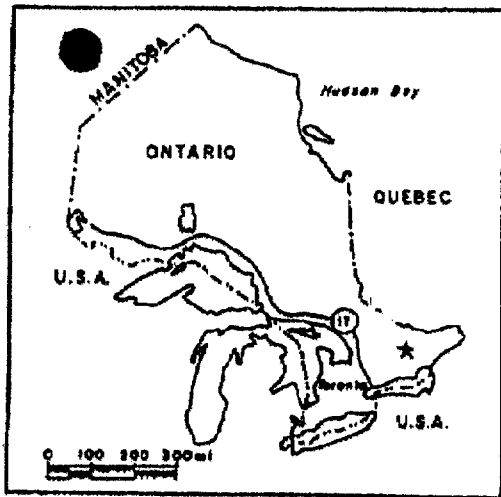


FIGURE 1
LOCATION MAP

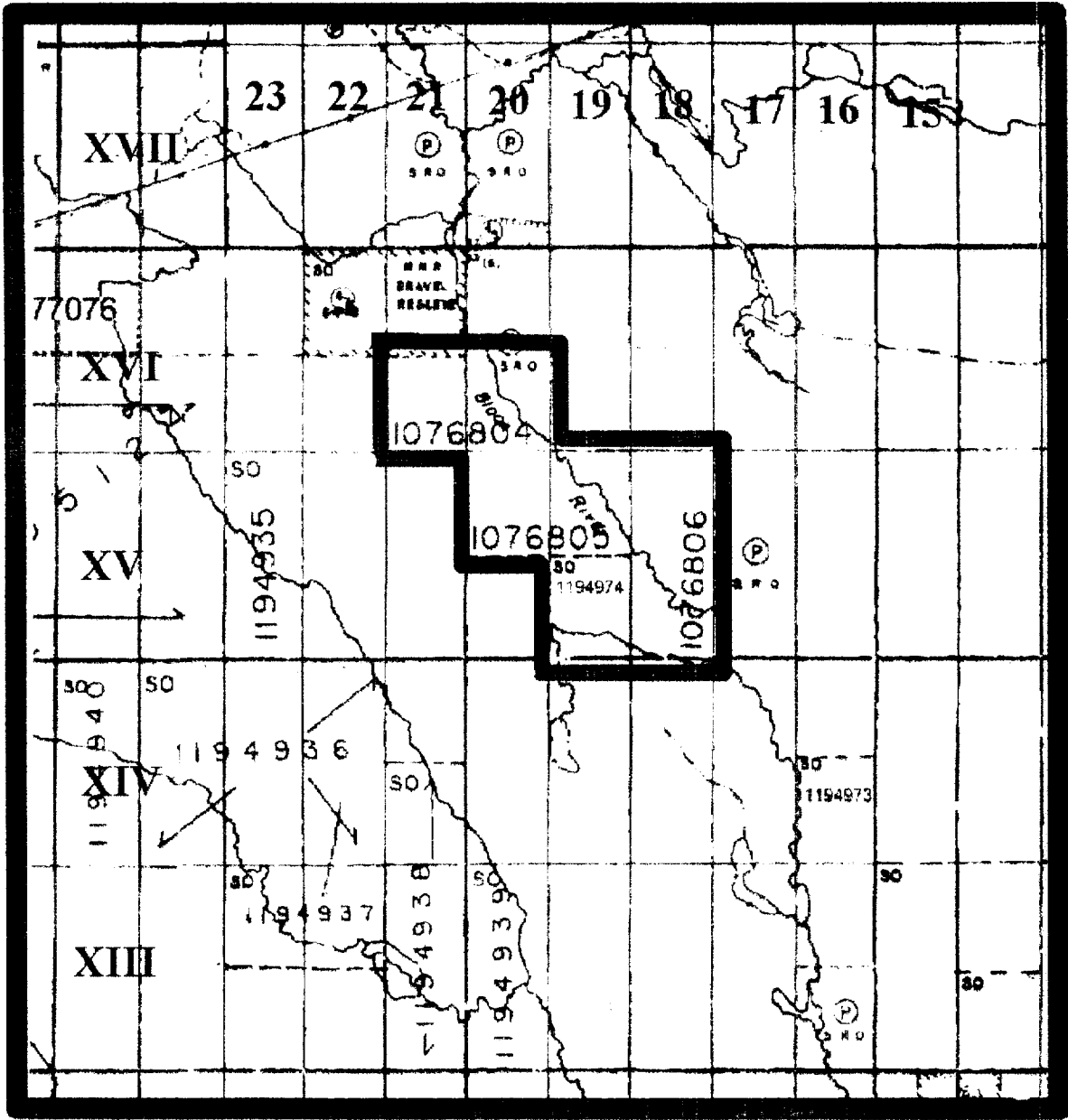
**TABLE 1.
CLAIM LOGISTICS
BLACK RIVER PROPERTY
GRIMSTHORPE TWP., ONTARIO**

CLAIM No.	LOCATION	No. of UNITS	Recording DATES
1076804	Lot's 21 & 22, Concession XVI South ½	2 units	March 8, 1996
1076805	Lot's 19 & 20, Concession XV North ½	2 units	March 8, 1996
1076806	Lot 18, Concession XV	2 units	March 8, 1996
1194974	Lot 19, Concession XV South ½	<u>1 units</u>	October 20, 1992
		7 units	

Total Area: 140 hectares

**Claim Ownership: R. Dillman
8901 Reily Drive
Mount Brydges, Ontario**

**J. Chard
RR#1
Havelock, Ontario**



**BLACK RIVER PROPERTY
GRIMSTHORPE TWP., ONTARIO
PLAN No. M.97**

Physiography

The Black River Property is crosscut by a chain of interconnecting north-northwest trending streams and ponds, the largest of which is the Black River. Drainage of the Black River and feeder streams is variable, ranging poor to good as it is controlled by elevation changes and some damming by beavers.

The property is characterized by moderate topography with up to 15% bedrock exposure. Maximum relief is approximately 25 metres. Greatest elevation changes occur east of the Black River where a significant outcrop ridge runs parallel to the river. West of the river, regions are characterized by gently rolling ridges also orientated parallel to the river.

Most of the property is covered by mixed hardwood forest. Maple, birch and poplar are the dominant tree types, with minor balsam, fir, hemlock, cedar and isolated stands of white pine.

Overburden consists primarily of ground moraine deposits of unconsolidated till material forming a thin to moderate cover over most of the property. Till was deposited in the Pleistocene by an ice sheet moving essentially north to south during an event associated with the Wisconsin Glaciation. These deposits are primarily gravelly to sandy loam with numerous locally derived pebbles and boulders. Glacial outwash deposits have accumulated north of the property. These deposits consist of well-sorted fine to coarse sandy deposits and coarse sand to cobble deposits showing excellent bedding. Recent deposits of coarse material have accumulated along the Black River flood plain.

Previous Work

Grimsthorpe Township was mapped by V. B. Meen of the Ontario Department of Mines in the 1940's (Meen, 1942). The area was mapped by R. M. Easton of the Ontario Geological Survey in 1990 (Easton and Ford, 1990). Prior to 1991, there is no record of any mineral exploration in this area of Grimsthorpe Township.

In 1991, R. Dillman prospected and staked claims along the Black River to cover several gold discoveries. Subsequently, geological and geophysical surveys consisting of magnetometer and VLF-electromagnetic surveys were performed over portions of the property.

In 1992, after a property examination by Homestake Minerals, several claims were staked extending the property towards the north along the Black River. Soil sampling, trenching and additional geological and geophysical surveys were performed throughout the year. Increased attention lead to additional gold discoveries by several exploration companies and local prospectors and prompted the staking of claims which adjoined the northwest corner of the Black River Property.

In 1993, additional trenching and soil sampling was performed by Dillman on the property. Trenching was also performed in 1996.

In the fall of 1999, four claims forming the south extension of the property were abandoned. This was a result of changes to land-use policies and the formation of the Lingham Lake Conservation area which buffered part of the claim block.

Regional Geology

The property is situated in the Madoc-Bancroft region of the Granville Structural Province of the Precambrian Shield. Rock units belong to the Mid-Sedimentary Belt of the Elzevir Terrain subdivision of the Grenville Province. The regional geology is summarized in Figure 4.

The property is underlain by Proterozoic aged metasedimentary and mafic metavolcanic rocks. The supracrustal rocks are locally intruded by mafic to felsic dykes, sills and large batholiths. The northwest trending greenstone unit is bounded on the east by the Elzevir Granite Batholith and to the west, by the Lingham Lake Complex, a large circular differentiated plutonic mass which evolved from a magma gradually changing in composition from mafic to felsite.

Property Geology and Mineralization

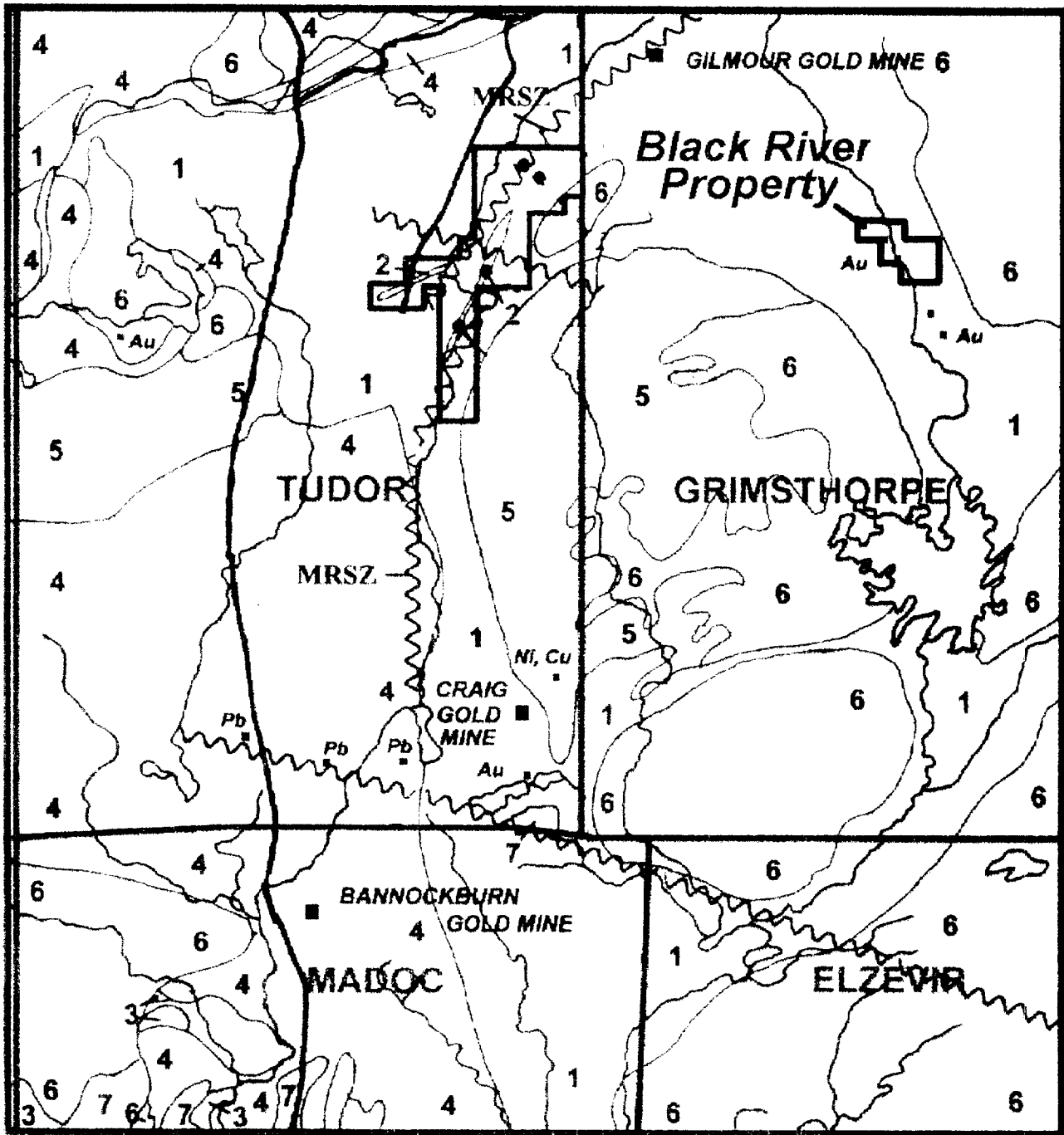
The geology of the property is summarized in Figure 5. The geology is characterized by large massive fine-grained basaltic flows and schistose metasedimentary units which generally strike in a northwest direction and dip moderately towards the southwest.

Metasedimentary rocks occur as units between 1-75 metres thick consisting of interbedded fine-grained argillaceous, graphite and greywacke schist and rare coarser-grained quartz pebble conglomerate. Finer-grained units commonly contain variable amounts of pyrite, pyrrhotite and magnetite resulting in a rusty appearance on outcrop surfaces. Preservation of original bedding has been observed in some units although the top of the units has not been determined. Metasedimentary units typically outcrop in recessive areas such as along northwest trending lineaments and are most abundant on the property along the Black River and in areas west of the river. Contacts with basaltic flows are sometimes sheared and commonly contain areas of quartz veining, some of which contain arsenopyrite and gold.

Fine-grained northwest trending felsic dykes and fine-grained east-west trending mafic dykes have intruded the metavolcanic-metasedimentary contact along the river and in rock units west of the river. The dykes range between 1-2 metres wide. The felsic dykes are medium-grained and grey in color. Fine planar black mica and augend quartz 'eyes' occur throughout the felsic dykes. Mafic dykes are aphanitic, black in color, blocky and well-jointed. It is believed the mafic dykes are older than the felsic dykes.

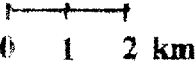
A small, coarse-grained gabbro body has intruded the mafic-metasedimentary contact in the vicinity of the river in the north area of the property. Although the contacts are not exposed, the gabbro appears to be roughly circular in shape, measuring approximately 50 metres in diameter. A similar gabbroic sill occurs at the metavolcanic-metasedimentary contact east of the river in the southeast region of the property.


No large fault structures are recognized on the property although pronounced lineaments suggest faulting has occurred. At least two directions of lineaments are present, of which, the most dominant are orientated northwest and coincide with the strike of rock units on the property. Cross-cutting lineaments consisting of interconnected swamps orientated east-west suggest the presence of younger faulting. Evidence in the rocks of the existence of younger fault structures are apparent by a



- 7 LIMESTONE
- 6 GRANITE
- 5 GABBRO
- 4 MARBLE
- 3 METASEDIMENTARY SCHISTS
- 2 FELSITE TUFF
- 1 MAFIC METAVOLCANIC FLOWS

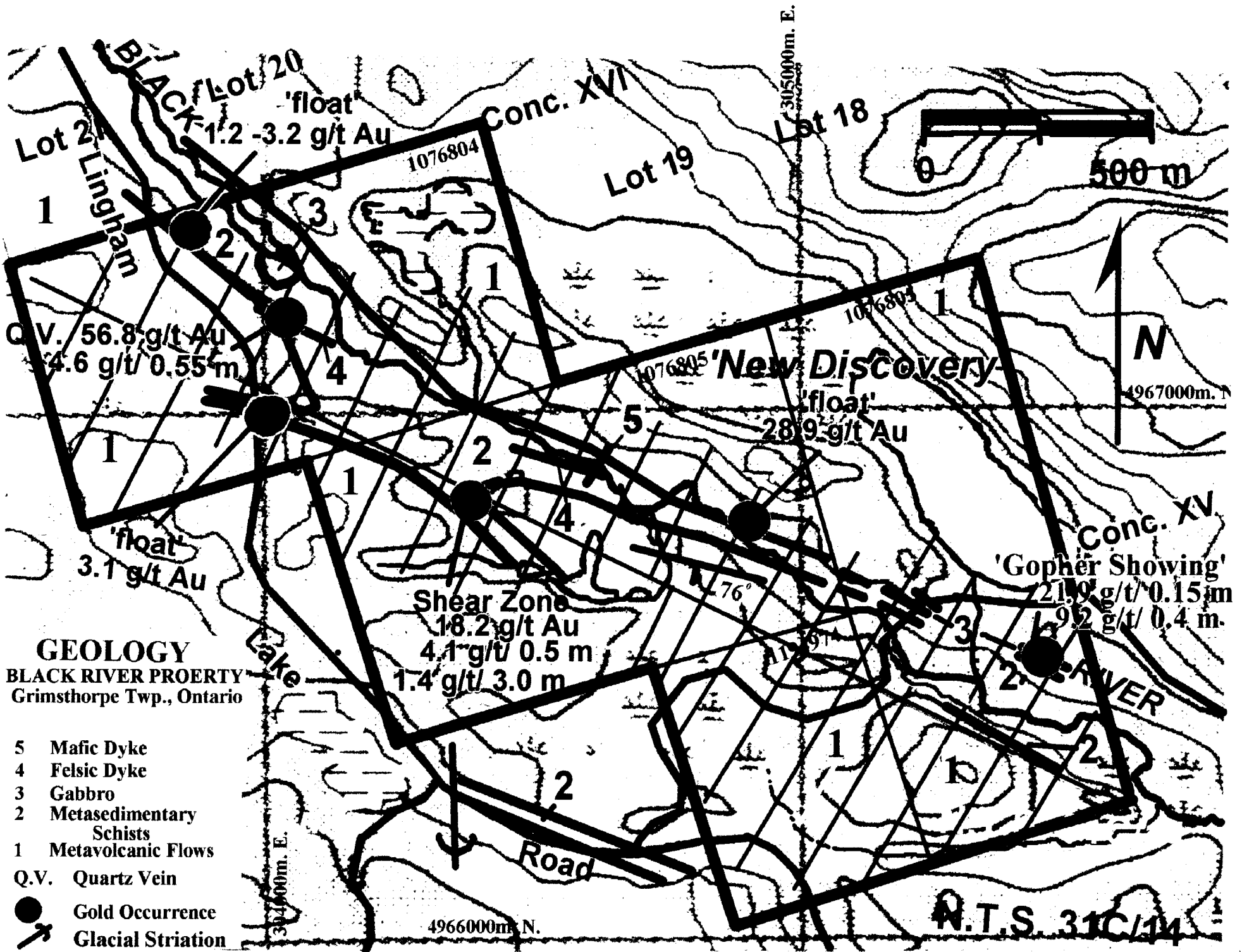
- Au Gold
- Pb Lead
- Ni Nickel
- Cu Copper

- 

 0 1 2 km
- MRSZ Moira River Shear Zone
 -  Fault

GEOLOGY

TUDOR-MADOC REGION



well-defined set of joints having an E-W orientation which cross-cut and off-set features such as: bedding plains, contacts and schistosity

Local zones of shearing occur in metasedimentary rocks at the metavolcanic contact following the river and marginal to several northwest trending felsic dykes. Some recrystallization and chloritization of the metasedimentary rock is associated with the shear. Zones of Fe-Mg carbonate alteration are rare but pervasive in outcrops marginal to the gabbroic sill at the metavolcanic-metasedimentary contact in the southeast corner of the property.

Gold Mineralization

Previous prospecting and geological traverses lead to the discovery of eight areas of significant gold mineralization close to the metavolcanic-metasedimentary contact following the Black River (Figure 5). The mineralization is part of a series of similar gold showings which occur along the contact over a distance of 5 kilometres (Dillman, 1991).

Two styles of gold mineralization occur on the property. The most prolific gold mineralization is found in narrow arsenopyrite-bearing quartz veins in sheared and mineralized metasedimentary rock. The quartz is granular textured and ranges from white to 'smokey-blue' in color. Assays of this mineralization have ranged 1.0 to 4.5 grams per tonne over widths of 0.5 metres and 56.8 g/t in selected samples.

The second style of gold mineralization is associated with the gabbro sill in the southeast corner of the property. At the Gopher Showing, gold has been detected in pyrite and carbonated chlorite schist developed along the margins of a 1 metre wide quartz vein. The vein begins at the gabbro-metasedimentary contact and extends perpendicular into the gabbro for an unknown distance. Assays of samples taken on the margins of the vein have ranged as high as 9.2 and 21.9 g/t over widths of 0.15 to 0.4 metres.

Kimberlite Occurrences

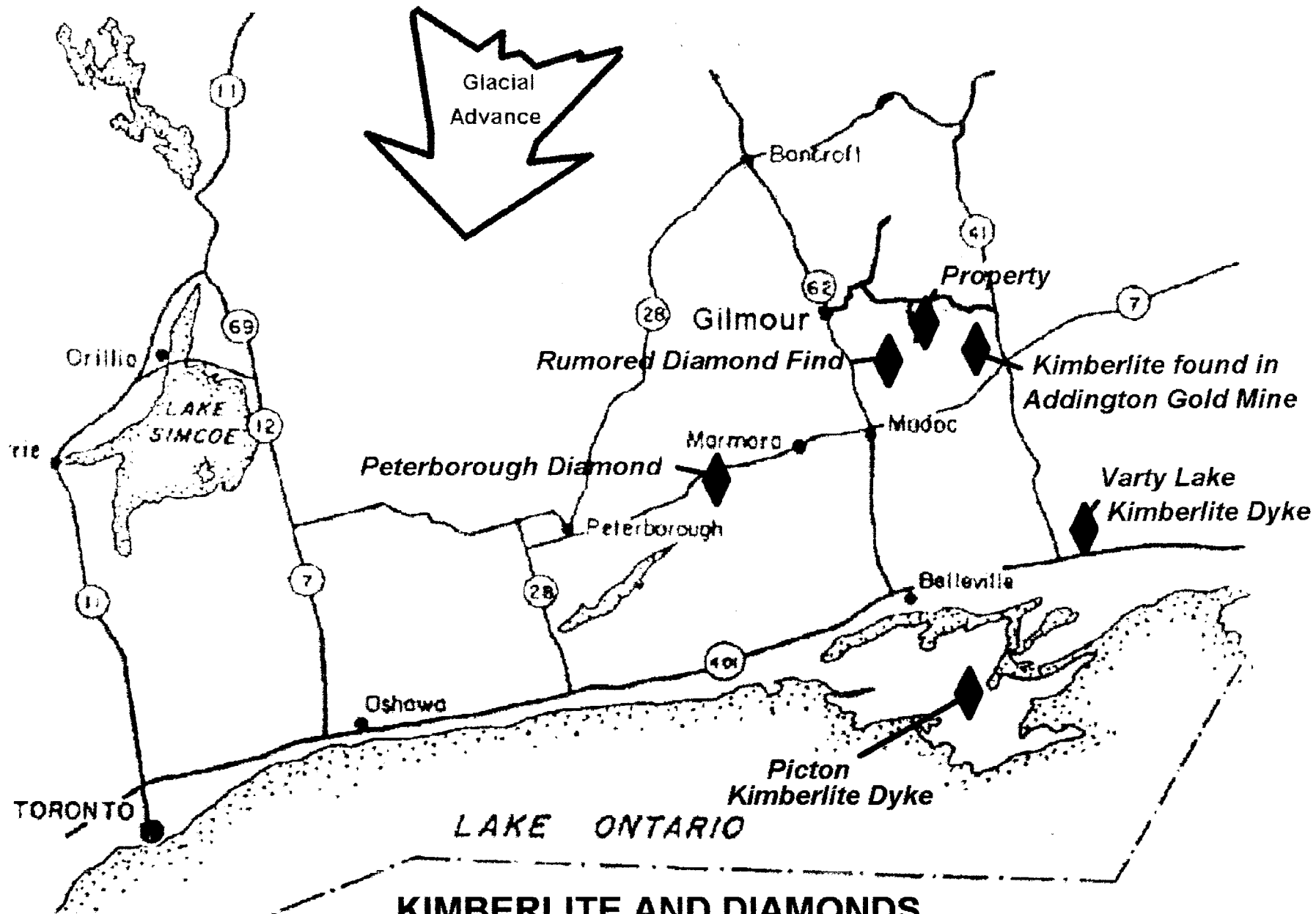
There are no known kimberlite occurrences on the property however, within the region kimberlite does occur (Figure 6). The closest known bedrock occurrence of kimberlite includes: dykes at Picton, Varty Lake, and in city of Ottawa. Several pieces of kimberlite were found in the waste pile of the Addington Gold Mine located near Flinton. The pieces are believed to have come from an unreported kimberlite found in the mine.

Rumors of the discovery of diamonds in drift have been reported from several areas within the region. The most famous is the Peterborough diamond reported to have been found along the old CN rail line between Marmora and Peterborough.

II. SURVEY PROCEDURE AND RESULTS

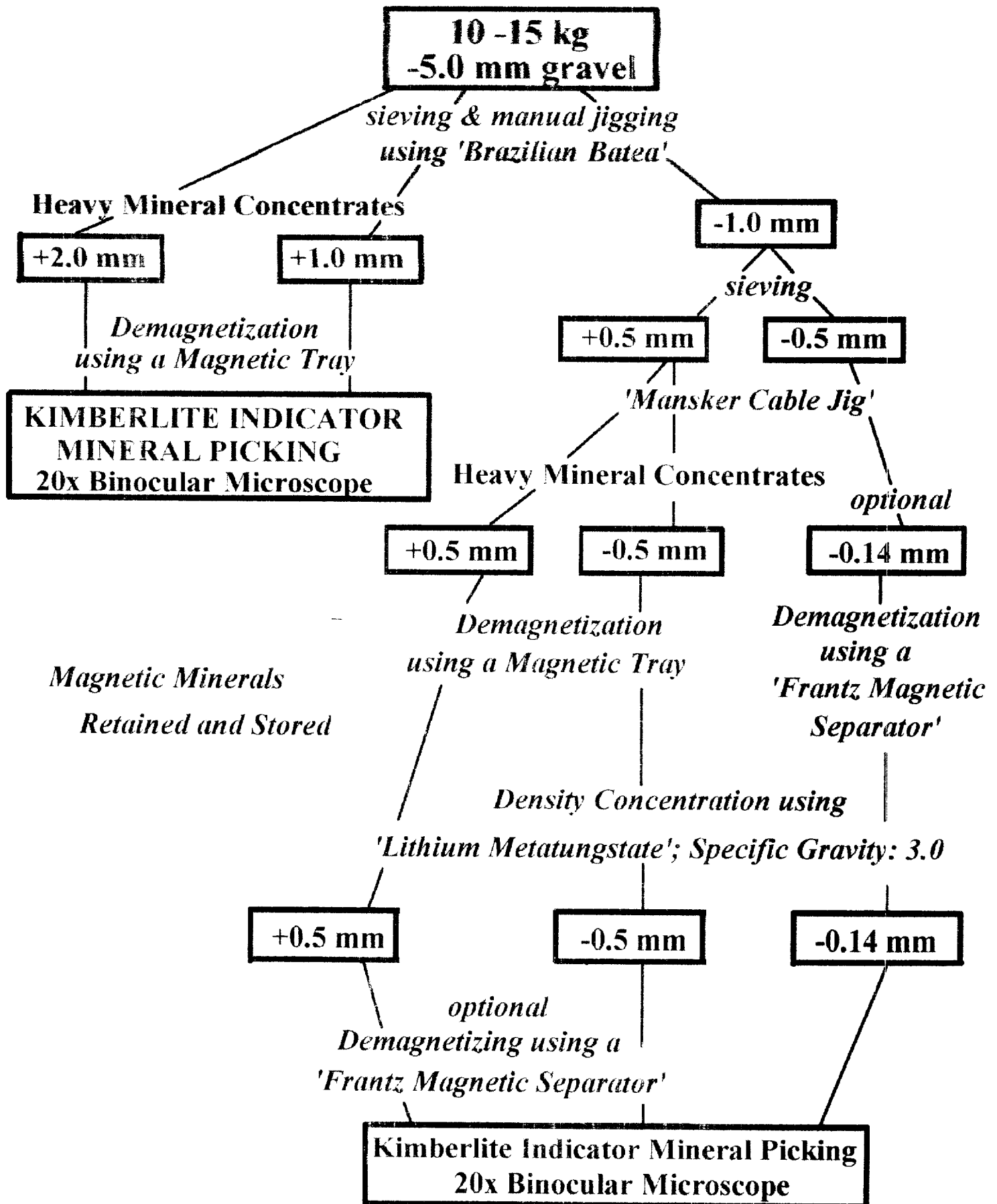
Analytical Procedure

During the survey, 9 rock and 10 heavy mineral samples were collected from the property.



**KIMBERLITE AND DIAMONDS
IN SOUTHEASTERN ONTARIO**

**TABLE 2.
STEPS FOR PRODUCING
HEAVY MINERAL CONCENTRATES**



Maps showing sample locations, assay results, assay and microprobe certificates of rock and grain analyses are appended to this report.

Rock

The 9 rock samples were sent for analysis to Lakefield Research Limited in Lakefield, Ontario. The lab assayed 8 samples for gold using Standard Fire Assay technique. Two of these samples were analyzed for 25 individual elements by ICP-OES scan. One sample was assayed for gold, platinum and palladium using a Standard Fire Assay technique.

Kimberlite Indicator Minerals

Heavy mineral concentrates were processed by the author. The steps needed to produce the heavy mineral concentrates are presented in Table 2.

During this survey, each sample was sorted into fractions based on size (-1.0 mm, -0.5 mm, -0.14 mm). Each fraction was put through a mechanical jig and crude heavy mineral concentrates were produced. Magnetic minerals such as magnetite and ilmenite were removed from each concentrate using a magnetic tray. The demagnetized concentrates were put into the density liquid: lithium metatungstate which has a maximum specific gravity of 3.0. Depending on the volume of the final product, a Frantz magnetic separator can be used to remove any paramagnetic minerals which Fe-Mg minerals and grains with small magnetic inclusions. Final concentrates are then searched for kimberlite indicator minerals using a binocular microscope.

During this survey, the finest fractions from three samples were placed through a Frantz separator at a high intensity setting (0.5 amps) which removed all the paramagnetic minerals. The residues were then searched for gold grains under 20x magnification.

Results of the Survey

Gold

The results of rock sampling are summarized in Table 3.

One new gold discovery was made during the survey. A significant gold assay of 28.9 g/t was returned from a fist-sized piece of massive arsenopyrite found in the east bank of the Black River in lot 19, concession XV. A second piece roughly the same size, consisting of sugary quartz with less arsenopyrite assayed 0.87 g/t Au. The mineralized float was found in the river bank at the base of a steep slope and close to the metasedimentary-metavolcanic contact which is believed to be located somewhere on the slope.

Kimberlite Indicator Minerals

Results of the study for kimberlite indicator minerals are summarized in Table 4. Only grains from the 1.0 mm to 0.5 mm size fractions were selected for microprobe analyses.

No pyrope garnets were found during the survey however, eight garnets were identified by the microprobe as having sufficient CaO to be categorized as eclogite Mg-almandine garnets of possibly

**TABLE 3.
RESULTS OF ROCK SAMPLING**

Sample Number	Lot & Concession		Claim Number	U.T.M Coordinates		Grid Coordinate	Sample Type	Gold grams/tonne	Platinum g/t	Palladium g/t	ICP Scan	Comments
				E	N							
TC-1	19	XV N.1/2	1076805	304650	4966890	30+30N, 0+87E	grab	<0.02	<0.02	<0.02	no	mafic dyke, 1.5 m wide.
GH-1	18	XV S.1/2	1076806	305450	4966490	22+25N, 2+00E	chip 0.5 m	0.11	--	--	no	Gopher Showing chlorite+Fecarb+py
GH-2	18	XV S.1/2	1076806	305450	4966490	22+25N, 1+99E	chip 0.6 m	0.09	--	--	no	Gopher Showing chlorite+Fecarb+py
GH-3	18	XV S.1/2	1076806	305450	4966490	22+24N, 1+99E	chip 0.5 m	0.56	--	--	no	Gopher Showing chlorite+Fecarb+py
16951	18	XV S.1/2	1076806	305260	4966630	24+50N, 1+10E	float	0.04	--	--	yes	quartz + blue metallic Cu mineral 0.3 x 0.3 x 0.6 m
16952	20	XVI S.1/2	1076804	304030	4967260	35+90N, 1+12E	float	<0.02	--	--	no	quartz + py in river 0.3 x 0.3 x 0.3 m
16953	19	XV N.1/2	1076805	304960	4966710	26+60N, 0+80E	float	28.9	--	--	no	massive arsenopyrite 0.2x 0.2 x 0.15 m
16954	19	XV N.1/2	1076805	304960	4966710	26+61N, 0+80E	float	0.87	--	--	yes	semi-massive arsenopyrite + qtz 0.2x 0.2 x 0.15 m
16955	20	XVI S.1/2	1076804	304150	4967135	34+90N, 1+05E	float	0.03	--	--	no	quartz + py 0.3x 0.3 x 0.4 m

TABLE 4.
RESULTS OF HEAVY MINERAL SAMPLING

Sample Number	Lot & Concession	Claim Number	U.T.M Coordinates E N	Grid Coordinate	Sample Type	Sample Weight kg (-5.0 mm)	Microprobe Results (1.0-0.5 mm grain size)	Comments
GRIM-1	20 XVI S.½	1076804	304030 4967260	34+90N, 1+12E	Stream Gravel	10.6	2 Ca-Mg eclogite almandine garnet	quartz + py grains in +2.0 mm heavy mineral concentrate
GRIM-2	20 XVI S.½	1076804	304150 4967135	33+90N, 1+05E	Stream Gravel	11.3	1 Ca-Mg eclogite almandine garnet	quartz + py float at site
GRIM-3	21 XVI S.½	1076805	306690 4967995	37+30N, 0+50E	Glacial Till	14.8	--	high percentage of granite pebbles.
GRIM-4	20 XV N.½	1076805	304310 4966430	31+75N, 4+50E	Glacial Till	14.6	1 Ca-Mg eclogite almandine garnet 1 Chrome Diopside	close to mafic metavolcanic outcrop, 50-50 granite/mafic pebbles.
GRIM-5	20 XVI S.½	1076804	304390 4967740	33+90N, 2+65E	Stream Gravel	10.2	--	stream cut mafic metavolcanic outcrop
GRIM-6	18 XV S.½	1076806	305300 4966660	23+65N, 2+70E	Stream Gravel	13.9	--	stream cut mafic metavolcanic outcrop
GRIM-7	18 XV S.½	1076806	305200 4966140	23+12N, 3+70W	Stream Gravel	10.5	1 Ca-Mg eclogite almandine garnet 1 Chromite (KIM?)	Metasediment float in creek.
GRIM-8	18 XV S.½	1076806	305370 4966425	22+25N, 0+55E	Stream Gravel	10.6	5 Ca-Mg eclogite almandine garnet	Metasedimentary outcrop beside site.
GRIM-9	19 XV N.½	1076805	304685 4966815	29+80N, 0+65E	Stream Gravel	10.6	--	Metasediment float in river.
GRIM-10	19 XV N.½	1076805	304990 4966690	25+40N, 0+80E	Stream Gravel	11.1	1 Ca-Mg eclogite almandine garnet 1 Chromite (KIM?)	River cuts Metavolcanic outcrop.

CLINOPYROXENE - R. DILLMAN GRIMSTHORPE

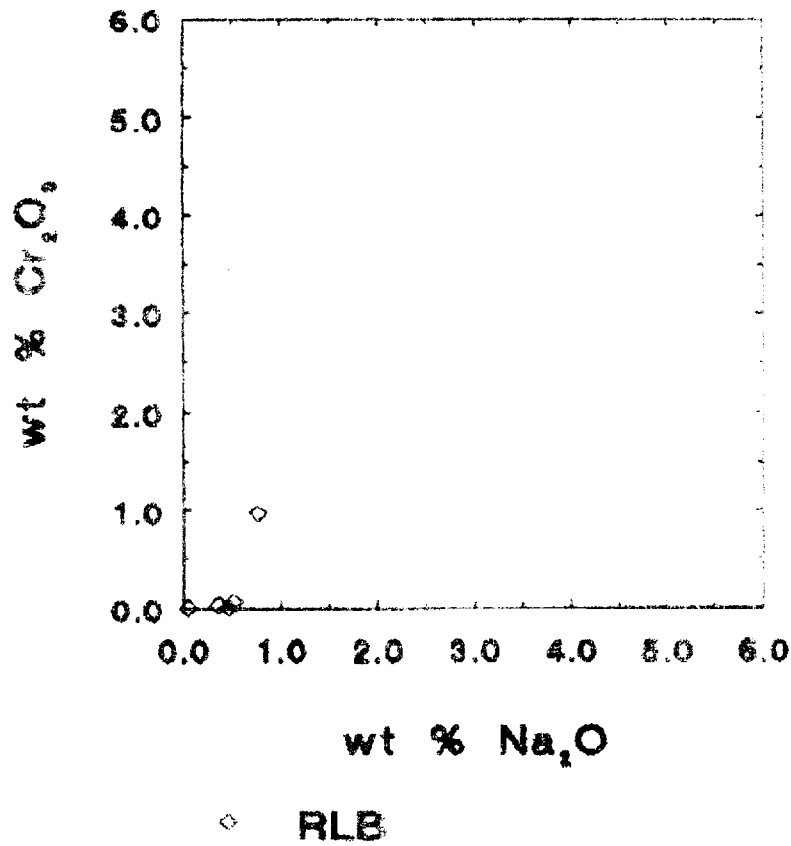
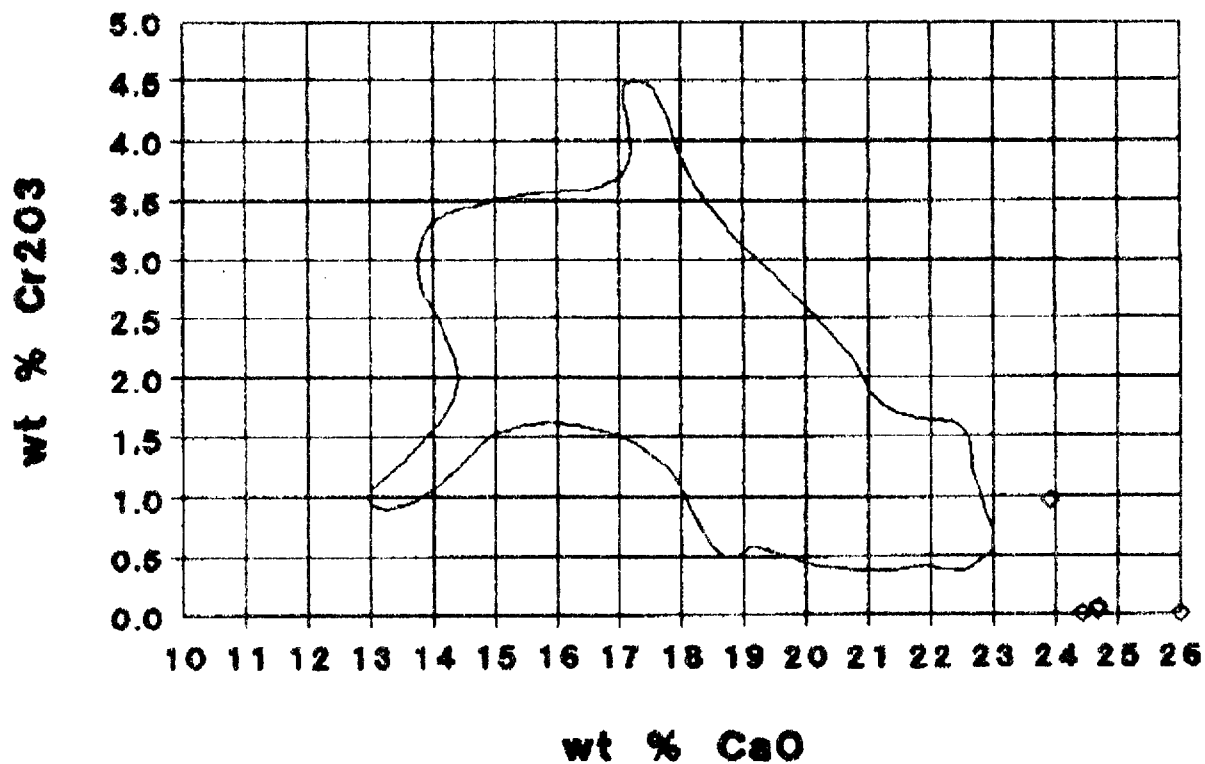


Fig. 7.

CHROME DIOPSIDE - R. DILLMAN GRIMSTHORPE



CHROMITE - R. DILLMAN GRIMSTHORPE

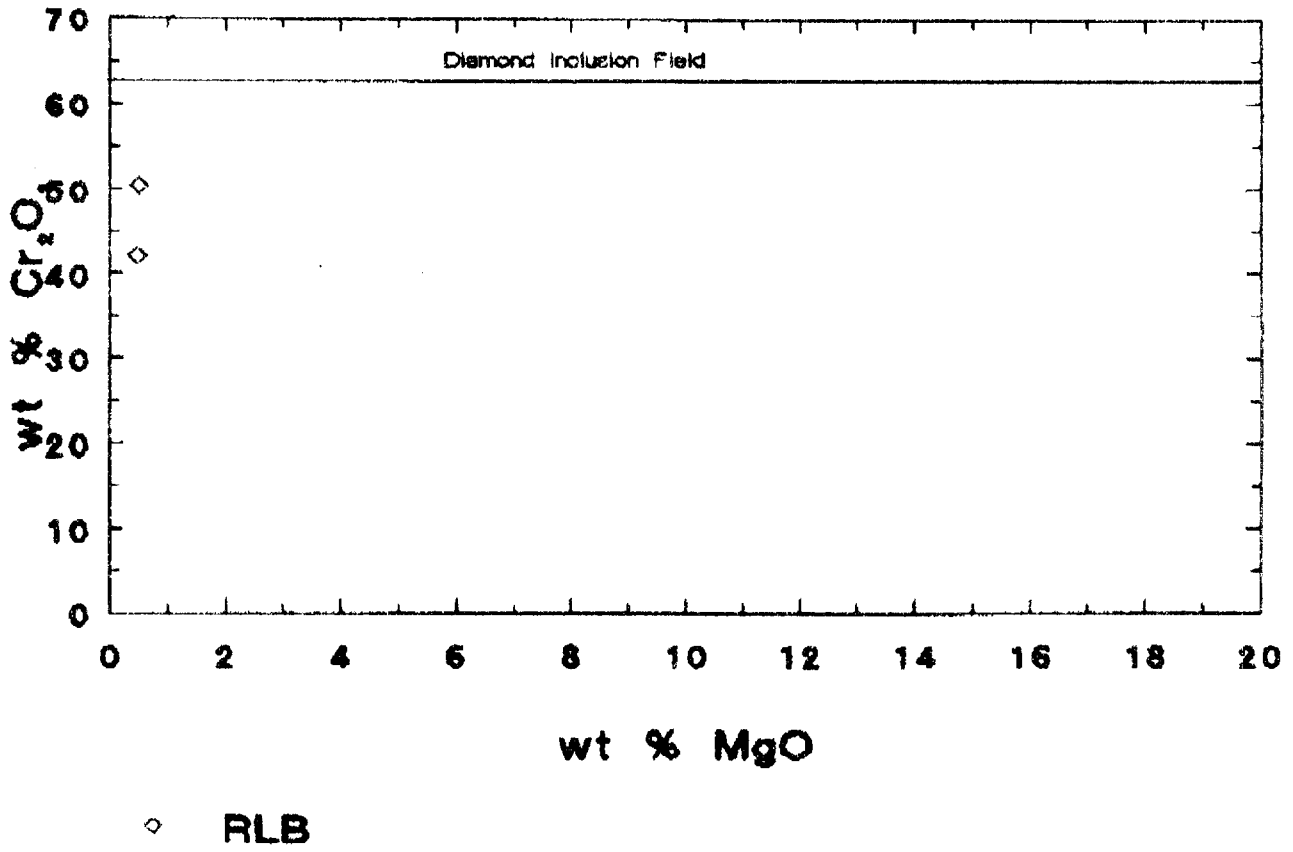
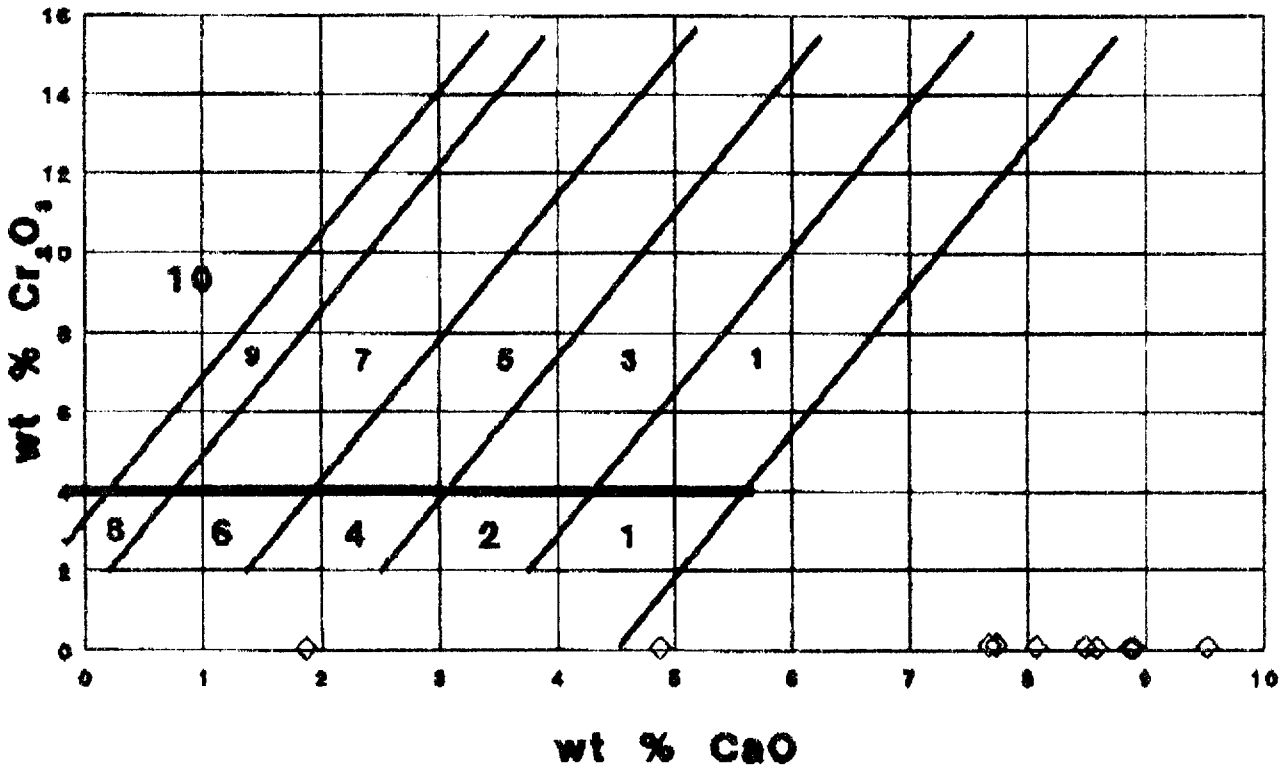


FIG. 9

GARNET - R. DILLMAN GRIMSTHORPE



◇ RLB

FIG. 10

ECLOGITIC GARNET - R. DILLMAN GRIMSTHORPE

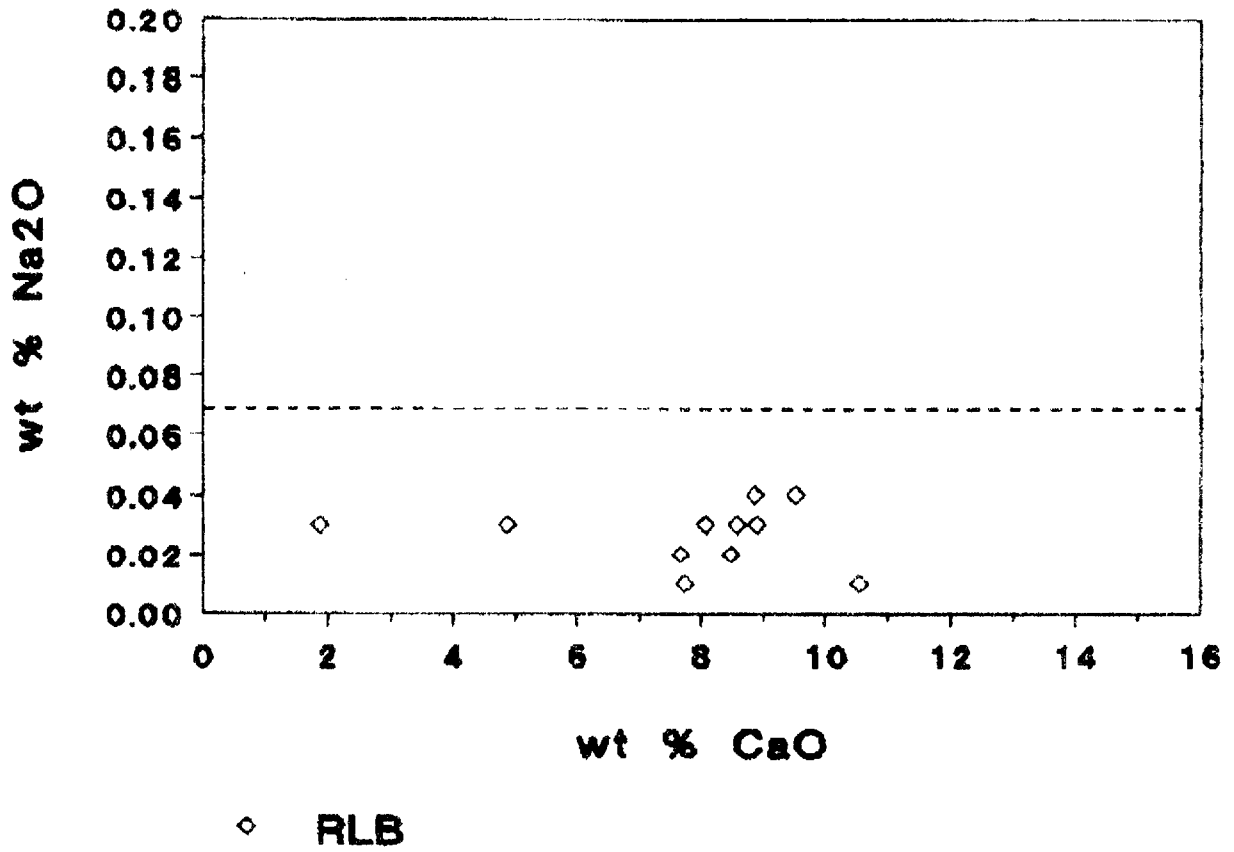


FIG. 11

ECLOGITIC GARNET - R. DILLMAN GRIMSTHORPE

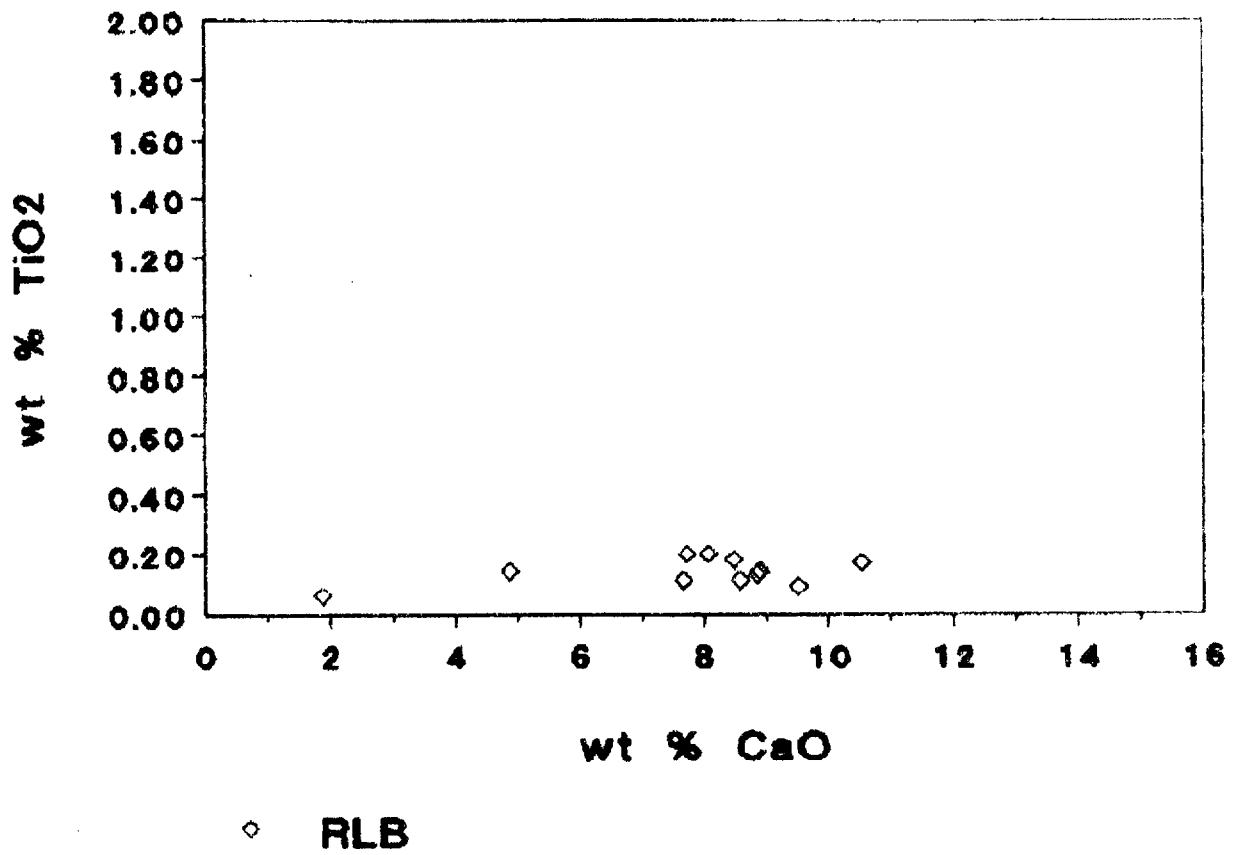


FIG. 12

kimberlite origin. Visually, the garnets are orange and 'blood-red' in color. All were pellet-shaped and several have striated faces indicative of magmatic crystal growth. Some of the deep-red almandine garnets contain rod-like inclusions of rutile which may be derived from the alteration of ilmenite inclusions.

Green clinopyroxene minerals were observed in all the heavy mineral concentrates and five of the 'brightest' green grains were selected for microprobe analyses. The grains were determined to range in composition between augite and diopside. Only one grain was found to contain sufficient Cr_2O_3 to be considered as a 'chrome diopside'. This grain, selected from sample Grim-4, was the brightest green clinopyroxene sent for analysis. The microprobe showed a chrome-sodium ratio of the Grim-4 grain to plot on the kimberlitic trend of clinopyroxene from kimberlite (figure 4).

Two grains of chromite were observed in two separate samples from the property. Both chromite grains were observed as near-perfect octahedral crystals suggesting little migration has occurred from source. Both grains contain high quantities of ZnO and low MgO suggesting the chromite is probably not kimberlitic.

Discussion of Results

Gold

The new gold discovery on the property is located on the metasedimentary-metavolcanic contact which hosts most of the gold occurrences on the property and several occurrence found south of the property. Previous geophysical surveys have located a coincident magnetic-VLF EM anomaly following metasedimentary schists west of the metavolcanic contact.

Kimberlite Indicator Minerals

The Ca-Mg-almandine garnets of possible eclogite composition were found in glacial till and in stream sediment samples from the property. A single grain of chrome diopside was also found in a till sample which contained eclogite garnet. Since the river drainage and glacial path is from the north, it is probable that the source of the 'kimberlite' minerals is situated in this direction and possibly beyond the property boundary.

All the 'kimberlite' minerals chemistries determined by microprobe analyses fall outside the preferred field for diamond stability. Additional sampling and microprobe work may yield kimberlite minerals with favorable compositions indicating diamonds in the source rocks.

IV. CONCLUSION AND RECOMMENDATIONS

In terms of gold exploration, the results of this survey warrant additional work on the property. Some detail prospecting and limited trenching is needed to located the massive arsenopyrite float found in the bank of the Black River in lot 19, concession XV. It is believed the mineralized material would have tumbled down the hill to its present position rather than being washed down river since the water would rapidly eroded the arsenopyrite.

In terms of exploration for kimberlite, the identification chrome-bearing clinopyroxene and red and orange garnet with chemical signatures similar to types of kimberlitic eclogite garnets is very interesting. It is possibly the minerals are not kimberlitic but their presence is unique for the area and provides a basis for additional heavy mineral sampling. Although it is possible the source(s) of the grains occur on the property, the author believes the source(s) are situated at some unknown distance north of the property. Therefore, some limited heavy mineral sampling on the property as warranted especially along the Black River up-stream from sample Grim-1. Systematic sampling should be continue in areas north of the property to adequately investigate the extent of minerals found on the property.

A budget to complete the necessary surveys includes:

Prospecting & Heavy Mineral Sampling	\$3500
Trenching	1500
Rock Analyses	1000
Heavy Mineral Concentrating: 10 samples	1500
Microprobe Analyses	1000
Reports & Maps	1000
Food, lodging & transportation	<u>3000</u>
Total	\$12,500

Respectfully submitted,



Robert J. Dillman B.Sc.
Geologist

February 28, 2000

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- Moore, J.M., 1982. Stratigraphy and Tectonics of the Grenville Orogen in Eastern Ontario; Abstract Volume, 1982 Grenville Workshop, Friends of the Grenville.
- Geological Survey of Canada 1981, Aeromagnetic Map 97G, Grimsthorpe Township, Mazinaw Lake Sheet.

C E R T I F I C A T E

I, **ROBERT JAMES DILLMAN**, do hereby certify as follows:

- [1.] I am a **Mining Exploration Geologist** and that I reside and carry on business at **8901 Reily Drive**, in the town of **Mount Brydges, Ontario**.
- [2.] I am a **Graduate** of the **University of Western Ontario**, and hold a **Bachelor of Science Degree** and majored in **Geology**.
- [3.] I have been practicing my profession as a **Geologist** since **1992**.
- [4.] I am a **Licenced Prospector** in **Ontario** and have been actively engaged as a **Professional Prospector** since **1978**.
- [5.] My report, dated February 28, 2000, titled: **“REPORT ON ROCK AND HEAVY MINERAL SAMPLING ON THE BLACK RIVER PROPERTY GRIMSTHORPE TOWNSHIP, ONTARIO”** is based on information collected by myself between **August 27, 1999** and **February 28, 2000**. Any other information which has been gathered from additional sources has been cited in this report.
- [6.] The information given in this report is as **accurate** as to the best of my knowledge and I have **not stated false information** for personal gain.
- [7.] I **authorize** the use of this report or any part of if **proper credit** is given to the original author.
- [8.] I have **75% interest** in the property.
- [9.] I am a member of the **Geological Association of Canada**.

ROBERT JAMES DILLMAN, B.Sc.
GEOLOGIST



Dated at Mount Brydges, Ontario
This 28th day of February, 2000

LAKEFIELD RESEARCH LIMITED

P.O. Box 4300, 185 Concession St., Lakefield, Ontario, K0L 2H0
Phone : 705-652-2038 - FAX : 705-652-6441

R. Dillman
8901 Reily Drive
RR5 Mount Brydges, Ont, N0L 1W0 - CANADA

Attn : R. Dillman
Fax : 519-264-9278

Lakefield, September 23, 1999

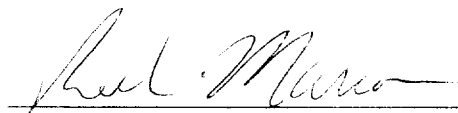
Date Rec. : September 17, 1999
LR. Ref. : SEP9061.R99
Reference : N/A
Project : 9902315

CERTIFICATE OF ANALYSIS

4.2 ICP-OES Strong Acid Digest Package

Element	16951	16954
*Al [g/t]	< 10	2100
*As [g/t]	90	6500
*Ba [g/t]	< 5.0	70
Be [g/t]	< 2.0	< 2.0
Ca [g/t]	670	970
Cd [g/t]	< 5.0	< 5.0
Co [g/t]	6.3	29
Cr [g/t]	12	8.7
Cu [g/t]	1300	29
Fe [g/t]	43000	21000
K [g/t]	< 100	< 100
La [g/t]	< 50	< 50
Mg [g/t]	320	540
Mn [g/t]	170	97
Mo [g/t]	< 10	< 10
Na [g/t]	180	500
Ni [g/t]	7.4	9.2
P [g/t]	47	77
Pb [g/t]	< 10	< 10
Sb [g/t]	< 20	< 20
Se [g/t]	< 50	< 50
*Sn [g/t]	< 20	< 20
Te [g/t]	< 10	< 10
Y [g/t]	< 5.0	< 5.0
Zn [g/t]	96	6.9

The extraction used above may be incomplete for those elements marked with an asterisk.



Roch Marion, B.Sc., C.Chem.
Assistant Manager, Analytical Services

A MEMBER OF IAETL CANADA

Accredited by the Standards Council of Canada in partnership with CAEAL to the ISO/IEC Guide 25 standard for specific registered tests.

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior written approval.

LAKEFIELD RESEARCH LIMITED

Postal Bag 4300, 185 Concession St., Lakefield, Ontario, K0L 2H0

Phone : 705-652-2038 FAX : 705-652-6441

AUG9127.R99

No.	Sample ID	Au g/t
-----	-----------	-----------

77	16951	0.04
78	16952	< 0.02
79	16953	28.9
80	16954	0.87
81	16955	0.03

LAKEFIELD RESEARCH LIMITED

P.O. Box 4300, 18E Concession St., Lakefield Ontario, K0L 2H0
Phone : 705-652-2038 FAX : 705-652-6441

James M. Chard
R.R. # 1
Havelock, Ontario, K0L 1Z0 - CANADA

Attn : James M. Chard

Lakefield, February 4, 2000

Date Recd. : January 25, 2000
DR. Ref. : JAN9216.R00
Reference : N/A
Project : 2000204

CERTIFICATE OF ANALYSIS

No.	Sample ID	Au g/t	Pt g/t	Pd g/t
1	GH 1	0.11	--	--
2	GH 2	0.09	--	--
3	GH 3	0.56	--	--
4	TC-1	< 0.02	< 0.02	< 0.02
--	Check --			
5	GH 3	0.49	--	--



Roch Marion, B.Sc., C.Chem.
Assistant Manager, Analytical Services

A MEMBER OF IAETL CANADA

Accredited by the Standards Council of Canada in partnership with CAEAC to the ISO/IEC Guide 25 standard for specific registered tests.
The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior written approval.

ECL-GARNET, R. DILLMAN - GRIMSTHORPE, February 24 2000, R.L.B.

	1	2	3	4	5	6	7	8
S102	39.16	38.34	38.85	38.09	39.59	38.01	38.28	38.56
T102	.14	.20	.11	.11	.17	.18	.13	.09
A203	22.97	21.78	22.25	21.61	22.60	21.99	21.88	22.51
C203	.07	.08	.13	.07	.05	.09	.05	.09
FID	22.19	26.08	23.28	26.01	18.99	26.03	25.89	21.79
M60	9.69	4.95	6.84	3.88	7.99	4.35	4.64	6.92
MNG	.74	.66	.83	1.94	.39	.71	.59	.87
CAO	4.87	8.07	7.67	8.58	10.54	8.48	8.86	9.52
NA2O	.03	.03	.02	.03	.01	.02	.04	.04
SUM	99.86	100.19	99.98	100.32	100.33	99.86	100.36	100.39
SI	5.944 *	5.975 *	5.978 *	5.973 *	5.980 *	5.953 *	5.962 *	5.907 *
AL	.056 6.000	.025 6.000	.022 6.000	.027 6.000	.020 6.000	.047 6.000	.038 6.000	.093 6.000
AI	4.053 *	3.974 *	4.013 *	3.967 *	4.003 *	4.011 *	3.977 *	3.970 *
TI	.016 *	.023 *	.013 *	.013 *	.019 *	.021 *	.015 *	.010 *
CR	.008 *	.010 *	.016 *	.009 *	.006 *	.011 *	.006 *	.011 *
FE	2.817 *	3.399 *	2.996 *	3.411 *	2.399 *	3.409 *	3.372 *	2.791 *
MK	.095 *	.087 *	.108 *	.258 *	.050 *	.094 *	.078 *	.113 *
MG	2.192 *	1.150 *	1.569 *	.907 *	1.799 *	1.015 *	1.077 *	1.580 *
CA	.792 *	1.347 *	1.265 *	1.442 *	1.706 *	1.423 *	1.478 *	1.562 *
NA	.009 9.983	.009 10.000	.006 9.985	.009 10.015	.003 9.985	.006 9.992	.012 10.016	.012 10.050
O	24.000 *	24.000 *	24.000 *	24.000 *	24.000 *	24.000 *	24.000 *	24.000 *
F/M	1.328	3.032	1.979	4.045	1.361	3.450	3.203	1.838
F/FM	.570	.752	.664	.802	.576	.775	.762	.648

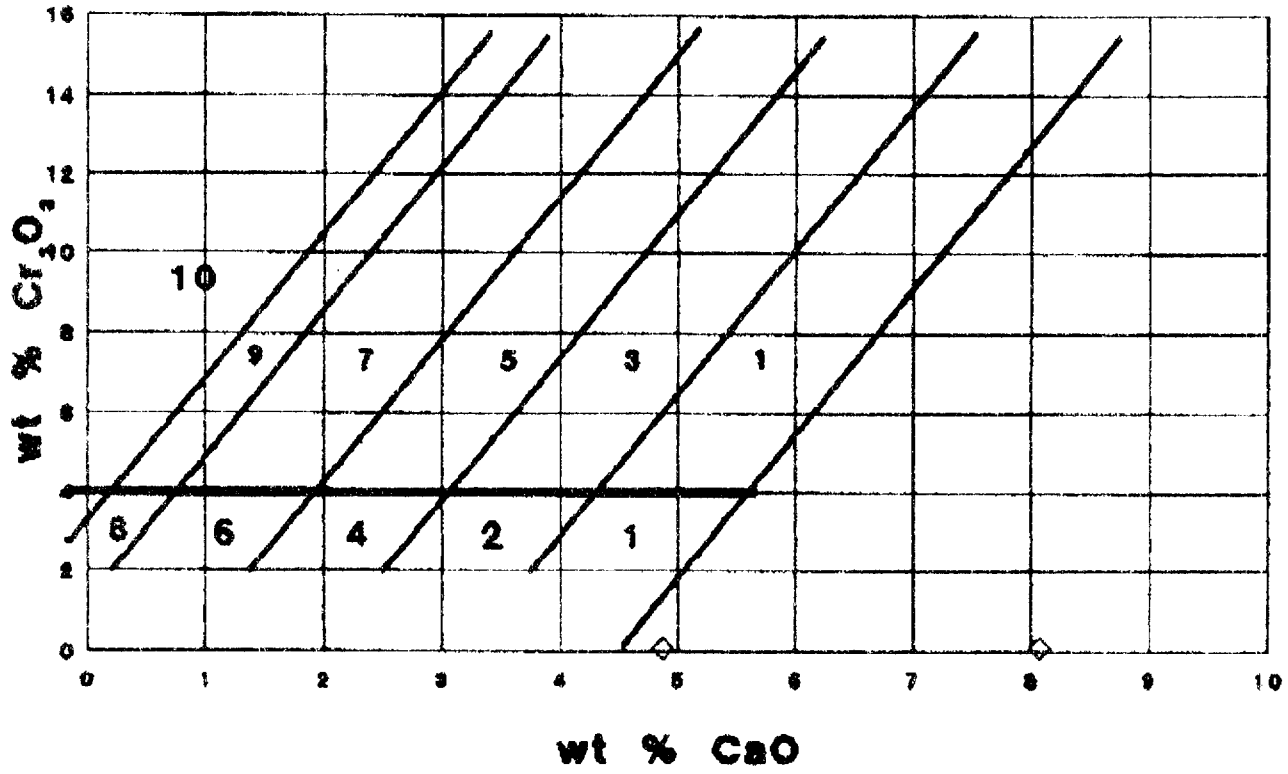
- 1 SAMPLE GRIM-1 GRAIN 9
- 2 SAMPLE GRIM-1 GRAIN 10
- 3 SAMPLE GRIM-2 GRAIN 7
- 4 SAMPLE GRIM-4 GRAIN 5
- 5 SAMPLE GRIM-7 GRAIN 5
- 6 SAMPLE GRIM-8 GRAIN 6
- 7 SAMPLE GRIM-8 GRAIN 7
- 8 SAMPLE GRIM-8 GRAIN 9

ECL-GARNET, R. DILLMAN - GRIMSTHORPE, February 24 2000, R.L.B.

	9	10	11
SIO2	58.58	58.57	58.24
TIO2	.14	.06	.20
AL2O3	21.97	22.42	21.94
CR2O3	.06	.03	.13
FE0	23.73	26.01	25.86
MGO	5.82	8.04	5.46
MNO	.69	3.21	.92
CAO	8.90	1.87	7.73
NA2O	.03	.03	.01
SUM	99.92	100.24	100.49
SI	5.975 *	5.957 *	5.938 *
AL	.025 6.000	.043 6.000	.062 6.000
AL	3.985 *	4.037 *	3.952 *
TI	.016 *	.007 *	.023 *
CR	.007 *	.004 *	.016 *
FE	3.074 *	3.359 *	3.358 *
MN	.091 *	.420 *	.121 *
MG	1.344 *	1.851 *	1.264 *
CA	1.477 *	.309 *	1.286 *
NA	.009 10.002	.009 9.996	.003 10.023
O	24.000 *	24.000 *	24.000 *
F/M	2.355	2.042	2.753
F/FM	.702	.671	.734

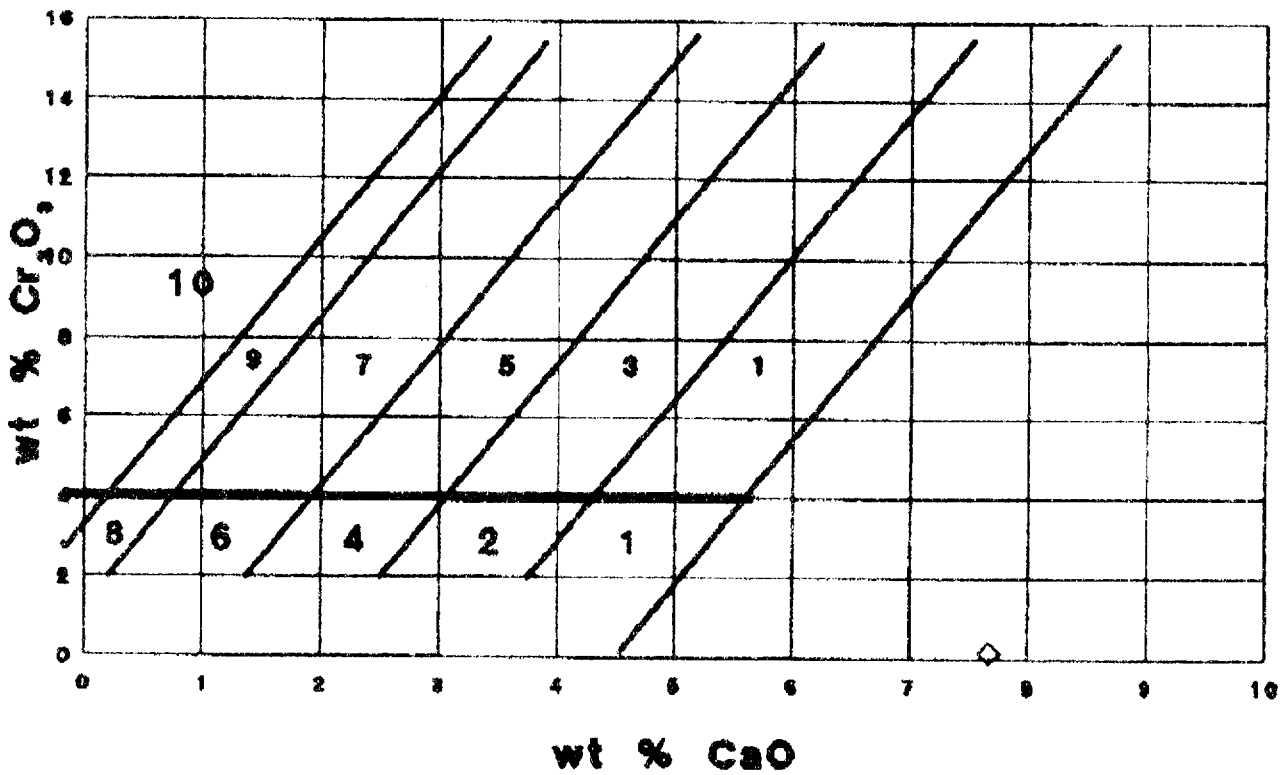
9 SAMPLE GRIN-8 GRAIN 10
 10 SAMPLE GRIN-8 GRAIN 11
 11 SAMPLE GRIN-10 GRAIN 7

GARNET - R. DILLMAN GRIM-1



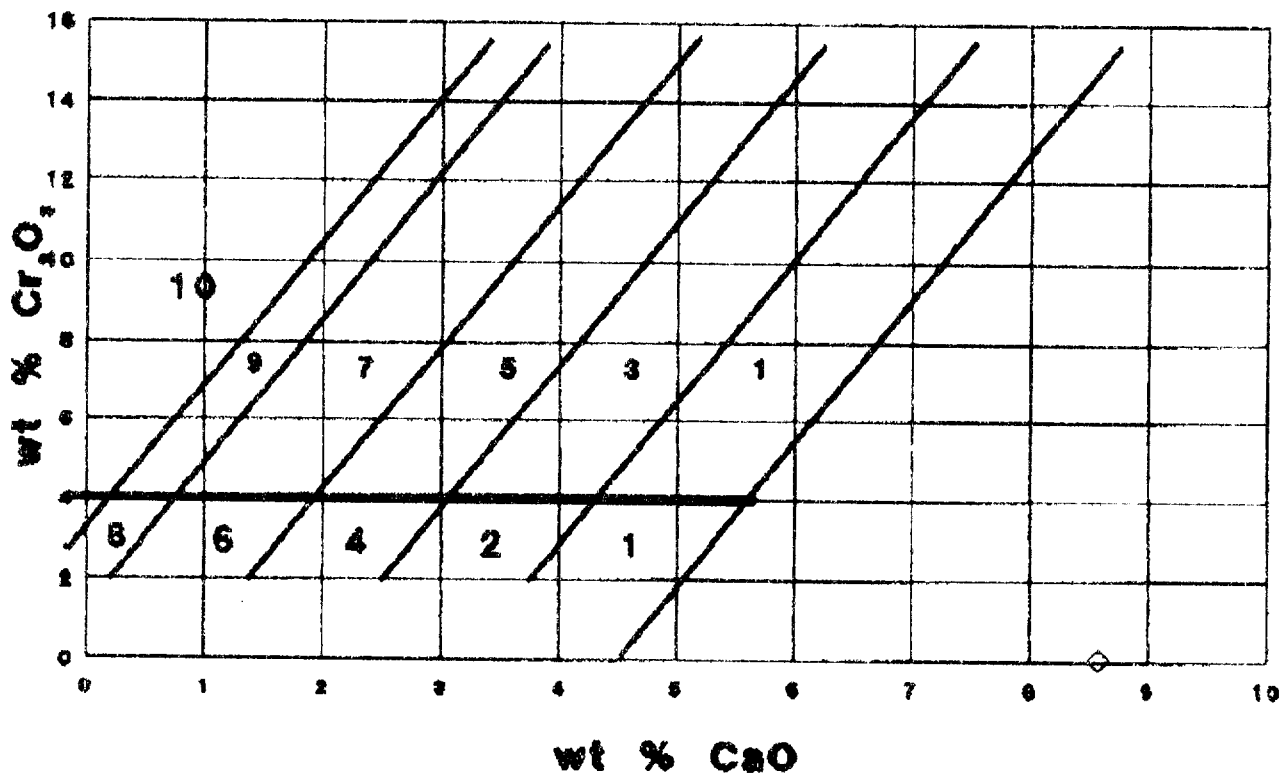
◇ RLB

GARNET - R. DILLMAN GRIM-2



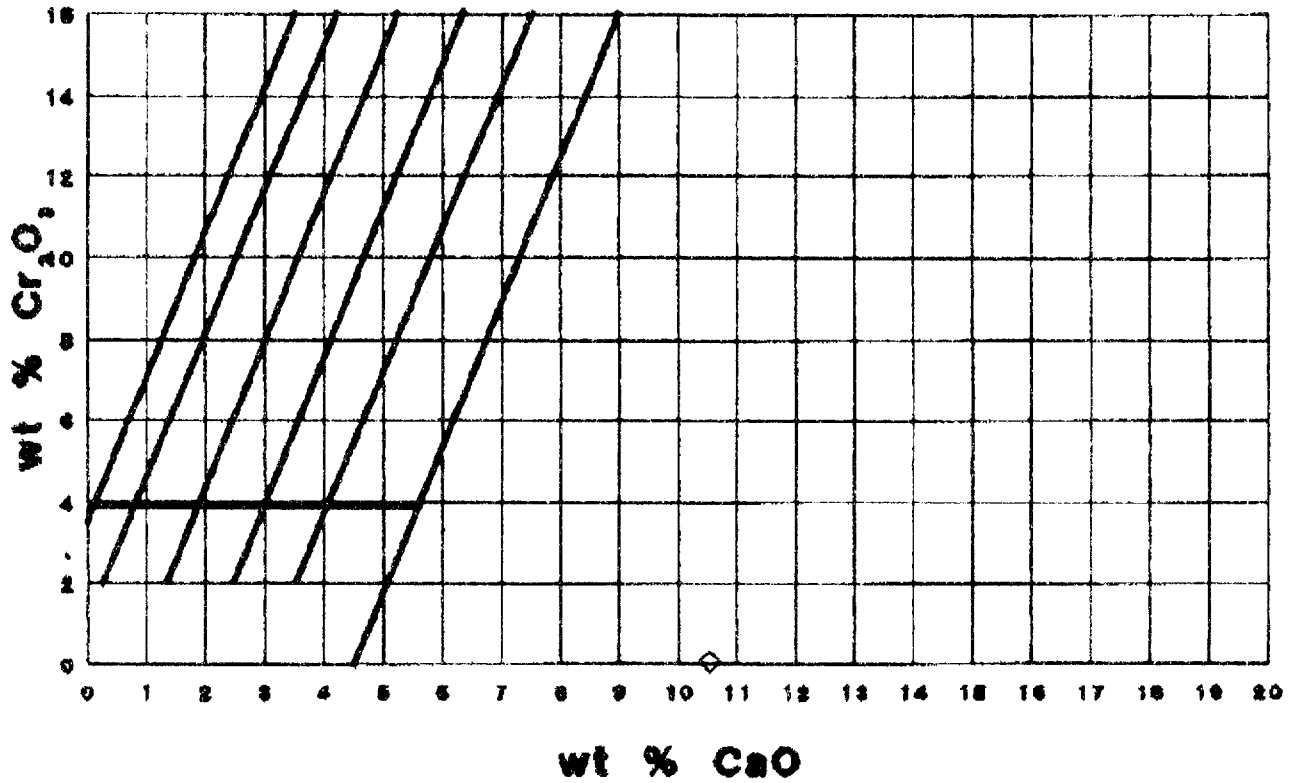
◇ RLB

GARNET - R. DILLMAN GRIM-4



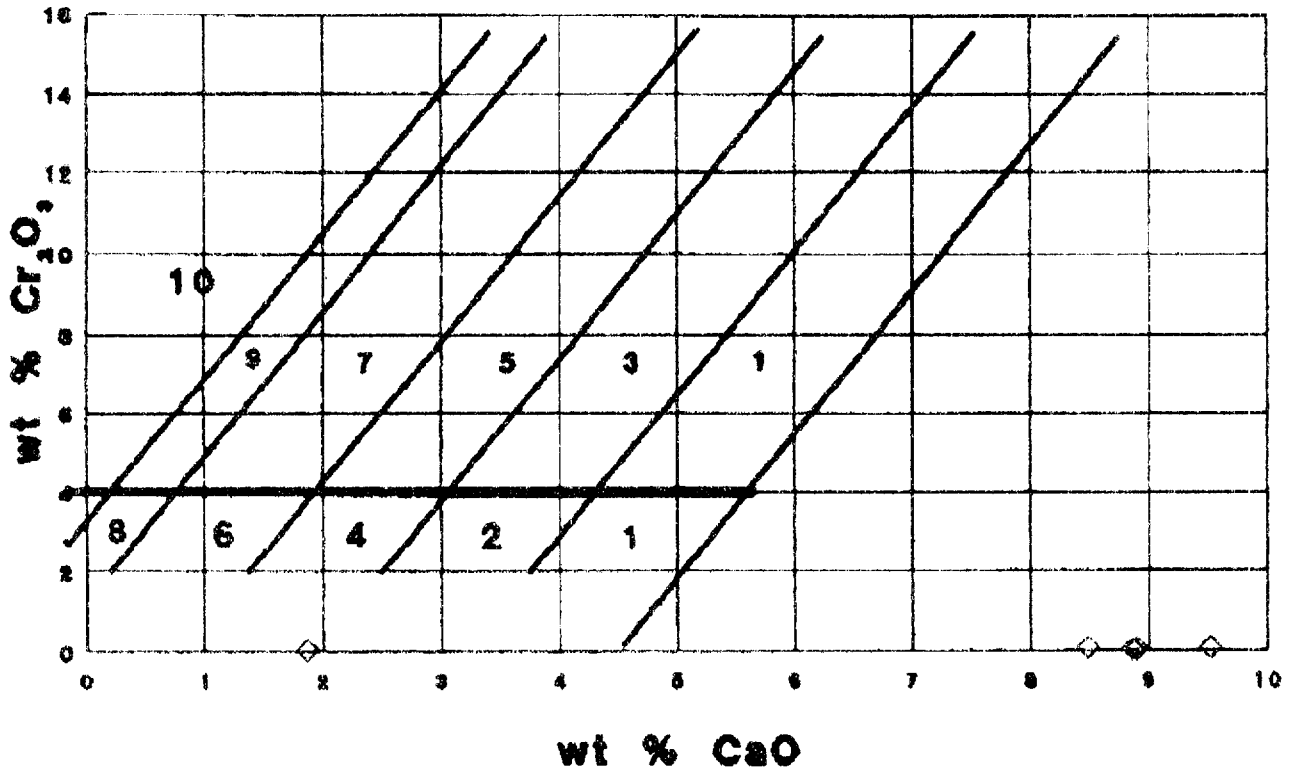
◊ RLB

GARNET - R. DILLMAN GRIM-7



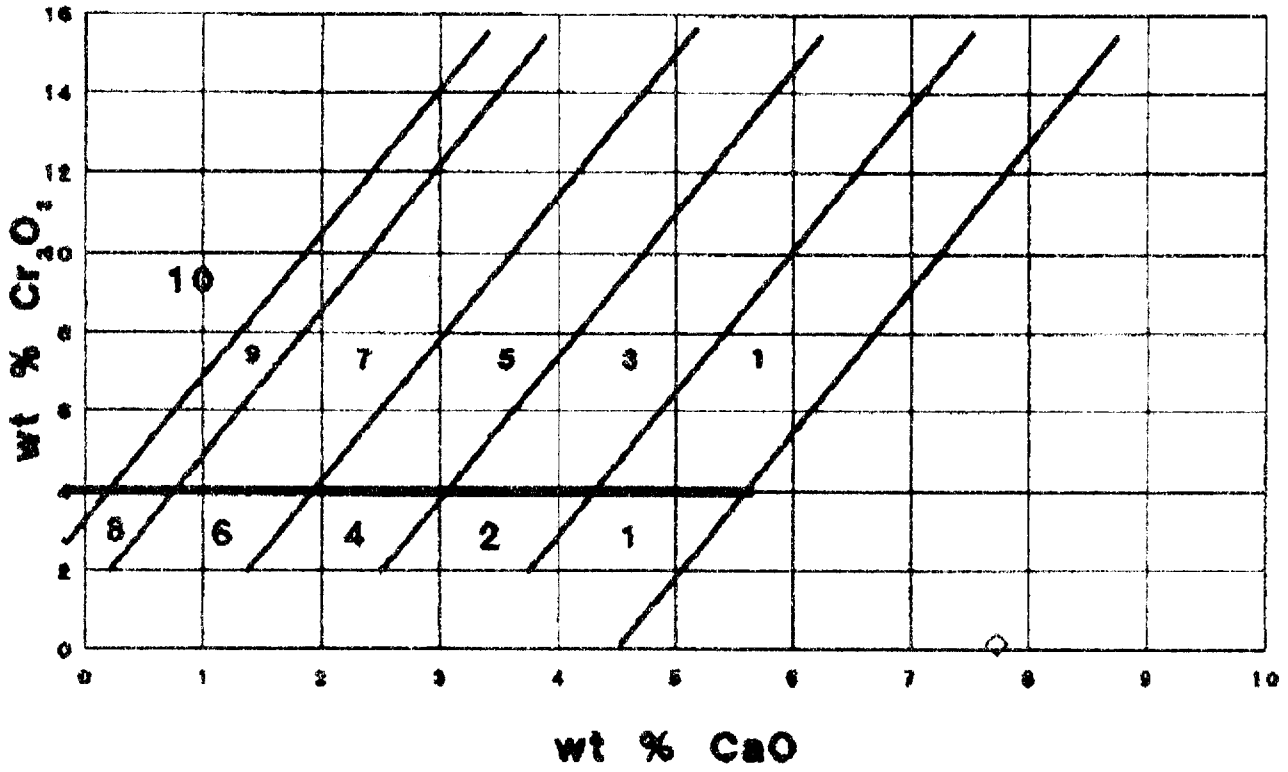
◇ RLB

GARNET - R. DILLMAN GRIM-8



◇ RLB

GARNET - R. DILLMAN GRIM-10



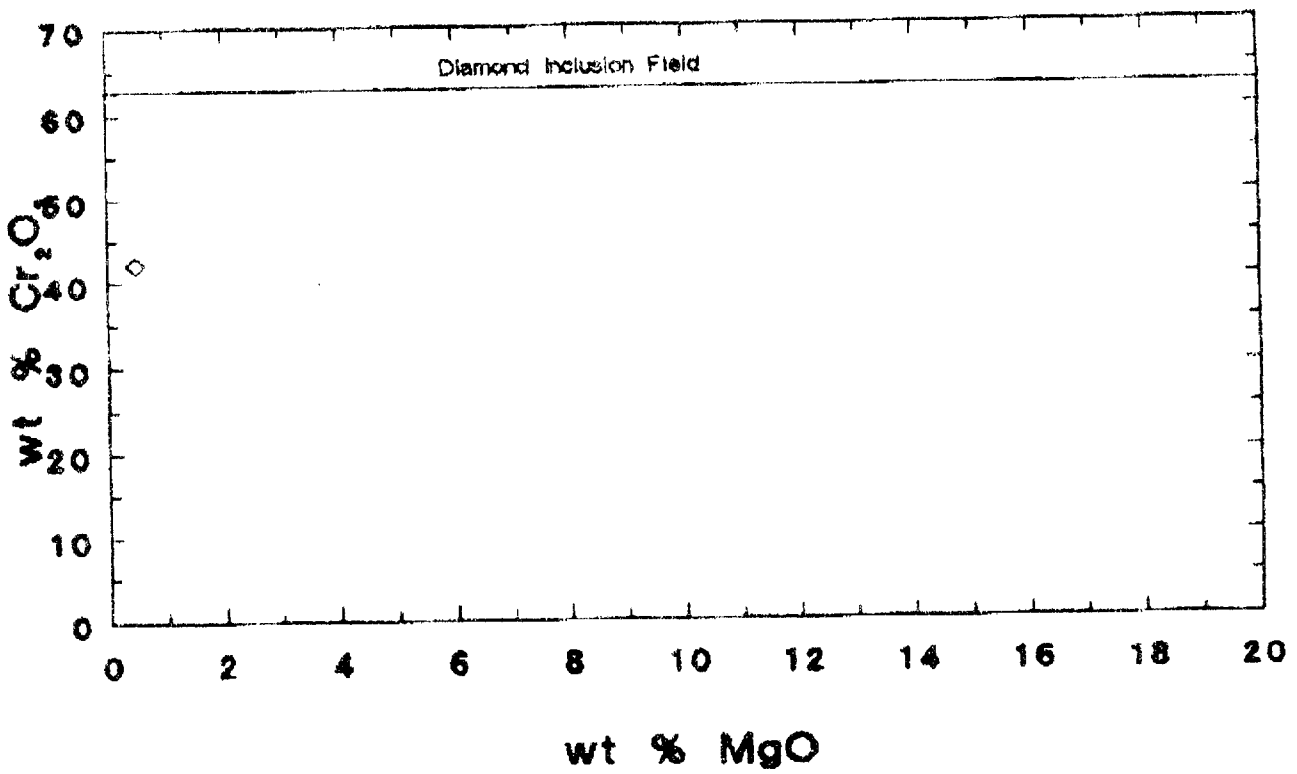
◇ RLB

CHROMITE, R. DILLMAN - GRIMSTHORPE, February 24 2000, R.L.B.

	1	2
SiO2	.06	.07
TiO2	.05	.17
Al2O3	12.70	14.40
Cr2O3	50.43	42.13
FeO	32.40	38.31
MnO	.82	.65
MgO	.51	.48
ZnO	2.45	2.37
MtO	.13	.12
SUM	99.55	98.70
SI	.017 *	.020 *
TI	.011 *	.037 *
AL	4.241 *	4.893 *
CR	11.298 *	9.605 *
FE	7.678 *	9.238 *
MN	.197 *	.159 *
MG	.215 *	.206 *
ZN	.513 *	.505 *
NI	.030 24.199	.028 24.691
O	32.000 *	32.000 *
F/M	36.558	45.550
F/FM	.913	.979

1 SAMPLE GRIM-7 GRAIN 1
 2 SAMPLE GRIM-10 GRAIN 1

CHROMITE - R. DILLMAN GRIM-10



◇ RLB

CLINOPYROXENE, R. DILLMAN - GRIMSTHORPE, February 24 2000, R.L.B.

	1	2	3	4	5
SiO2	52.39	53.85	55.37	52.92	52.46
TiO2	.07	.03	.01	.08	.03
Al2O3	.94	.59	.03	1.17	.90
Cr2O3	.03	.97	.00	.06	.00
FeO	9.34	4.94	.05	6.26	9.60
MgO	12.28	15.00	18.26	14.22	12.39
MnO	.00	.01	.00	.09	.08
CaO	24.67	23.91	26.18	24.69	24.43
K2O	.02	.03	.02	.01	.02
Na2O	.36	.77	.05	.52	.47
SUM	100.10	100.10	99.97	100.02	100.38

Si	1.971 *	1.984 *	1.999 *	1.965 *	1.970 *
Al	.029 2.000	.016 2.000	.001 2.000	.035 2.000	.030 2.000
Al	.013 *	.010 *	.000 *	.016 *	.010 *
Ti	.002 *	.001 *	.000 *	.002 *	.001 *
Cr	.001 *	.028 *	.000 *	.002 *	.000 *
Fe	.294 *	.152 *	.002 *	.194 *	.302 *
Mg	.689 *	.824 *	.983 *	.787 *	.694 *
Mn	.000 *	.000 *	.000 *	.003 *	.003 *
Ca	.994 *	.944 *	1.013 *	.982 *	.983 *
Na	.026 *	.055 *	.004 *	.037 *	.034 *
K	.001 2.019	.001 2.016	.001 2.002	.000 2.025	.001 2.027
O	6.000 *	6.000 *	6.000 *	6.000 *	6.000 *
F/M	.427	.185	.002	.251	.438
F/FM	.299	.156	.002	.200	.305

- 1 SAMPLE GRIN-2 GRAIN 8
- 2 SAMPLE GRIN-4 GRAIN 6
- 3 SAMPLE GRIN-6 GRAIN 6
- 4 SAMPLE GRIN-6 GRAIN 8
- 5 SAMPLE GRIN-8 GRAIN 12

Mr. R. Dillman,
R. J. Dillman Geological Services,
8901 Reilly Drive,
RR 5, Mount Brydges,
NOL 1W0

Ph/Fax 1-519-264-9278

R. L. Barnett Geological Consulting Inc.,
9684 Longwoods Road,
RR 32, London, Ontario.
N6P 1P2

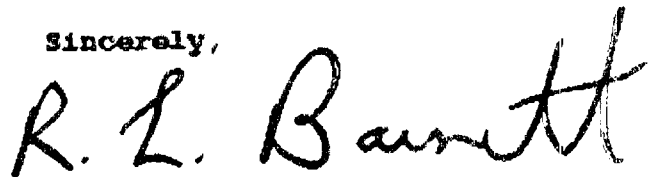
Ph. 1-519-652-1498
Fax 1-519-652-1475

Dear Robert,

The identity of "non-indicator" minerals in the Grimethorpe samples received February 2, 2000, for which analyses were not provided, is:

GRIM-1	grains 1,4,5,6,7	- simple ilmenite
	grains 2,3	- simple ilmenite + magnetite
	grain 8	- tourmaline
GRIM-2	grains 1,3,5	- simple ilmenite
	grains 2,4	- tourmaline
	grain 6	- Fe-orthopyroxene
	grain 9	- epidote
GRIM-4	grains 1,2	- spessartine-almandine ss
	grain 3	- simple ilmenite
	grain 4	- Fe-orthopyroxene
GRIM-6	grain 1	- Fe-orthopyroxene
	grain 2	- pyrite
	grains 3,4	- simple ilmenite
	grain 5	- tourmaline
	grain 7	- spessartine-almandine ss
GRIM-7	grain 2	- simple ilmenite
	grain 3	- grossular-andradite ss
	grain 4	- spessartine-almandine ss
GRIM-8	grains 1,2,3	- tourmaline
	grains 4,5	- epidote
	grain 8	- grossular-almandine ss
GRIM-10	grains 2,3	- tourmaline
	grain 4	- in plastic
	grains 5,6	- grossular-andradite ss

Sincerely,



R. L. Barnett

Personal information collected on this form is obtained under the authority of subsections 65(2) and information is a public record. This information will be used to review the assessment work and corrections should be directed to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd



31C14SW2004 2.20135 GRIMSTHORPE

900

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

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

Name ROBERT DILLMAN	Client Number 125989
Address 8901 REILY DRIVE	Telephone Number 519-264-9278
MOUNT BRIDGES, ONTARIO N0L1W0	Fax Number 519-264-9278
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.

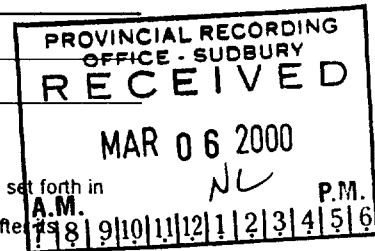
Geotechnical: prospecting, surveys, assays and work under section 18 (regs) Physical: drilling stripping, trenching and associated assays Rehabilitation

Work Type PROSPECTING	Office Use
	Commodity 1
	Total \$ Value of Work Claimed 3955
Dates Work Performed From 27 08 1999 To 24 02 2000	NTS Reference
Global Positioning System Data (if available) NTS 310/11	Mining Division Southern Ontario
Township/Area GRIMSTHORPE TWP.	Resident Geologist District Tweed
M or G-Plan Number M.97	

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; * NOTE SURFACE RIGHTS OF
 - complete and attach a Statement of Costs, form 0212; LOT 20 CONCL XVI IS
 - provide a map showing contiguous mining lands that are linked for assigning work; OWNED BY THE
 - include two copies of your technical report. QUEEN OF ENGLAND

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

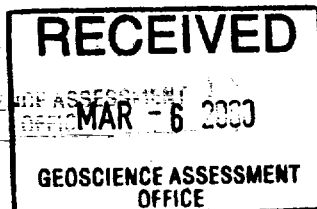
Name ROBERT DILLMAN	Telephone Number 519-264-9278
Address 8901 REILY DRIVE MT. BRIDGES	Fax Number 519-264-9278
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number



4. Certification by Recorded Holder or Agent

I, **Robert Dillman**, 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 completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent <i>Robert Dillman</i>	Date Feb 28, 2000
Agent's Address	Telephone Number 519-264-9278
	Fax Number 519-264-9278



1048

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

W0090.00014

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
19 TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
19 1234567	12	0	\$24,000	0	0
19 1234568	2	\$ 8,892	\$ 4,000	0	\$4,892
1 1076804	2	1349	800	-	549
2 1076805	2	994	800	-	194
3 1076806	2	1202	800	-	402
1 1194974	1	410	-	-	410
3					
9					
10					
11					
2					
13					
14					
15					
Column Totals	7	3959	2400	-	1555

I, Robert J. Dillman ^{2455 LP.} ROBERT J. DILLMAN 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: RJ Dillman Date: FEB 28, 2000

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):

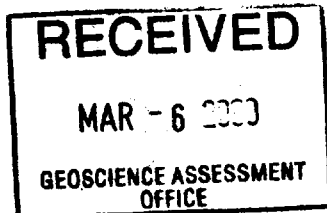
START with 1194974

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)	

7241 (03/97)



[Signature] FEB 28, 2000

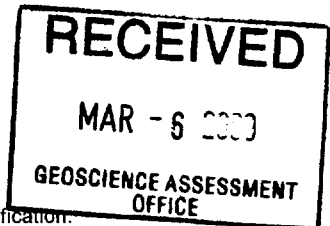


Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96 Under section 8 of the M...

Table with 4 columns: Work Type, Units of work, Cost Per Unit of work, Total Cost. Rows include PROSPECTING, ROCK ASSAYS, HEAVY MINERAL CONCENTRATION, KIMBERLITE INDICATOR PICKING, GRAIN ANALYSES, REPORT & MAPS, Associated Costs, Transportation Costs (ROAD), Food and Lodging Costs (FOOD, LODGING), and Total Value of Assessment Work.

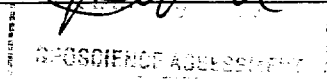
Calculations of Filing Discounts:

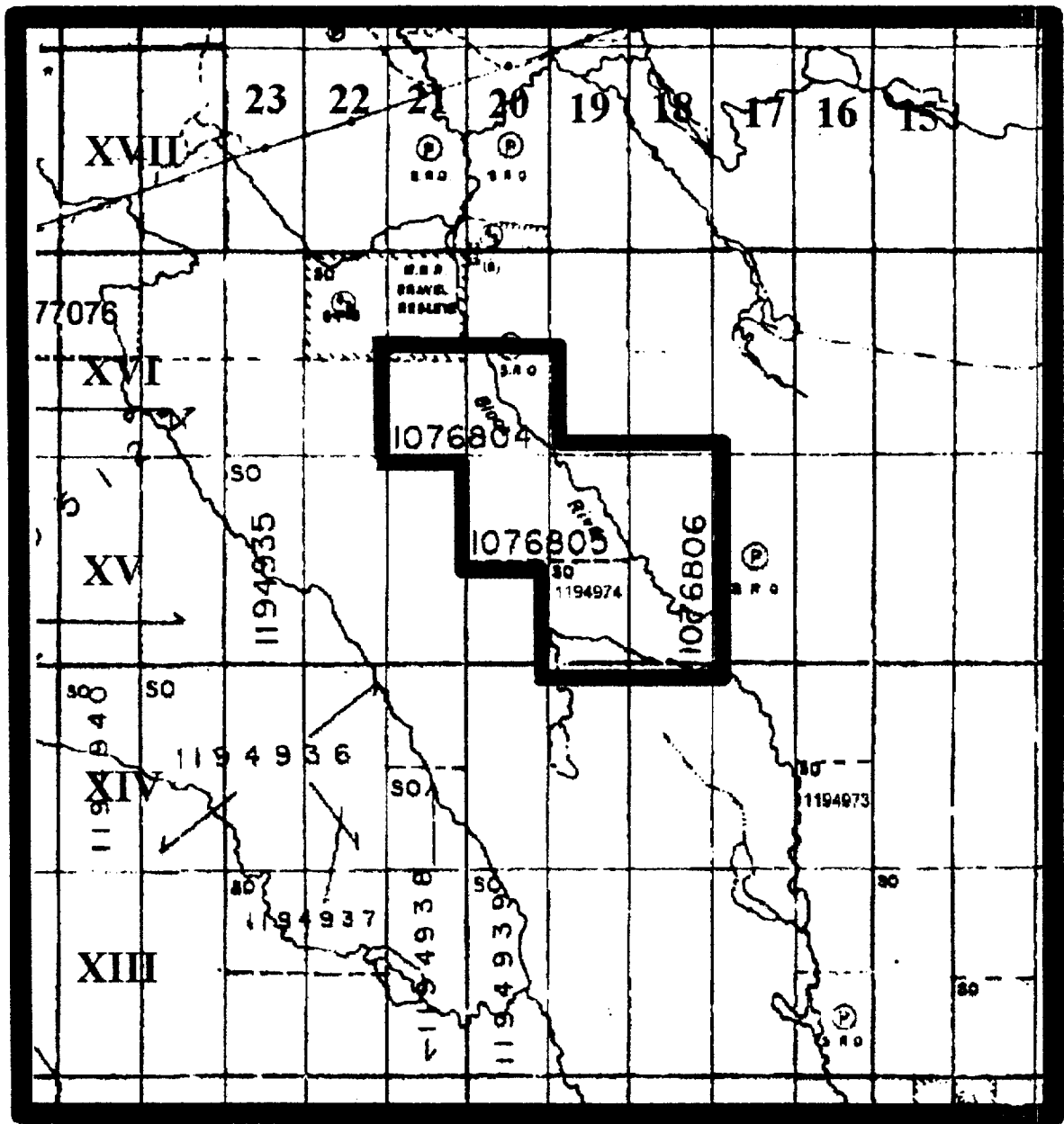
- 1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work.



Declaration of Work form as RECORDED HOLDER I am authorized to make this certification. (recorded holder, agent, or state company position with signing authority)

Signature: [Handwritten Signature] Date: FEB 28, 2000





BLACK RIVER PROPERTY
GRIMSTHORPE TWP., ONTARIO
PLAN No. M.97

RECEIVED
 MAR - 6 2000
 GEOSCIENCE ASSESSMENT
 OFFICE

2.20135

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

Telephone: (888) 415-9845
Fax: (877) 670-1555

March 29, 2000

ROBERT JAMES DILLMAN
8901 REILY DRIVE
R R #5
MT BRYDGES, Ontario
N0L-1W0

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

Dear Sir or Madam:

Submission Number: 2.20135

Status

Subject: Transaction Number(s): W0090.00014 Approval

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

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

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

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

Yours sincerely,



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

Work Report Assessment Results

Submission Number: 2.20135

Date Correspondence Sent: March 29, 2000

Assessor: STEVE BENETEAU

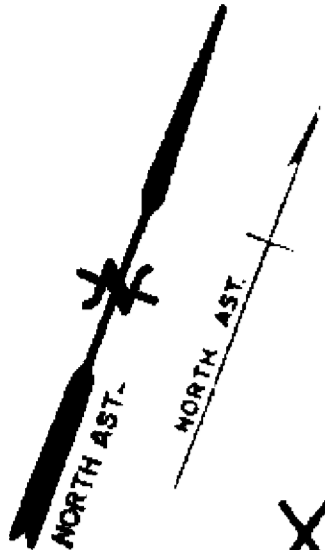
Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W0090.00014	1076804	GRIMSTHORPE	Approval	March 29, 2000

Section:
17 Assays BENEf

Correspondence to:
Resident Geologist
Tweed, ON

Recorded Holder(s) and/or Agent(s):
ROBERT JAMES DILLMAN
MT BRYDGES, Ontario

Assessment Files Library
Sudbury, ON



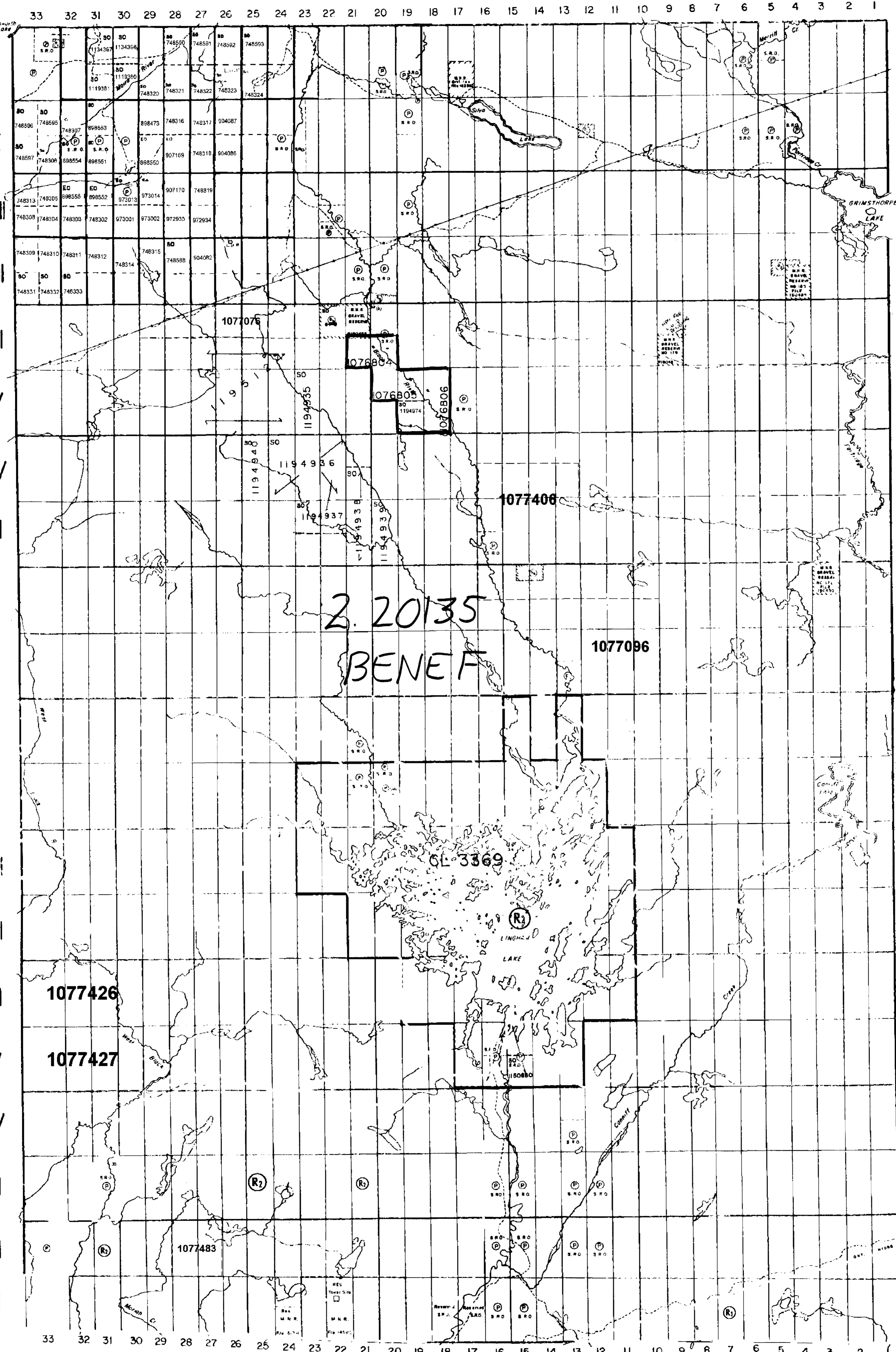
Limerick Twp. - M.114

Cashel Twp. - M.71

Efingham Twp. - M.87

Tudor Twp. - M.156

Argenteo Twp. - M.63



Madoc Twp. - M.120

Elzevir Twp. - M.89

GRIMSTHORPE

COUNTY OF HASTINGS
SOUTHERN ONTARIO
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND
- CROWN LAND SALE
- LEASES
- LOCATED LAND
- LICENSE OF OCCUPATION
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKIEG
- MINES
- CANCELLED
- LAND USE PERMIT

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

- SAND and GRAVEL
- 1) QUARRY PERMIT
 - 2) M.M.R. M&S GRAVEL RESERVE
 - 3) M.M.R. S.F.I. GRAVEL RESERVE
 - 4) M.M.R. M&S GRAVEL RESERVE
 - 5) M.M.R. S.F.I. GRAVEL RESERVE
 - 6) M.M.R. M&S GRAVEL RESERVE
 - 7) M.M.R. S.F.I. GRAVEL RESERVE

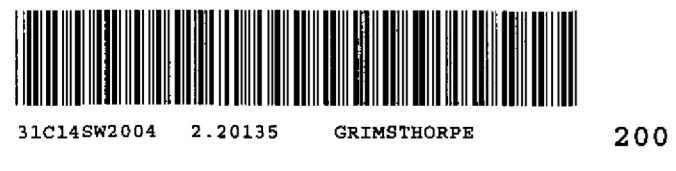
AREAS WITHDRAWN FROM DISPOSITION

Description	Order No.	Date	Disposition	File
(R1) SEC 36-80	W 9/82	12/12/82	S.R.O.	182950
(R2) Sec. W-LL-C18/99	ONT 08/05/99		S + M	
(R3) Sec. 36 W-LL-C17/99	ONT 12/06/99		M & S	
(R4) SEC.35 W-LL-C11/99	ONT MAY 17/99		M&S	

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

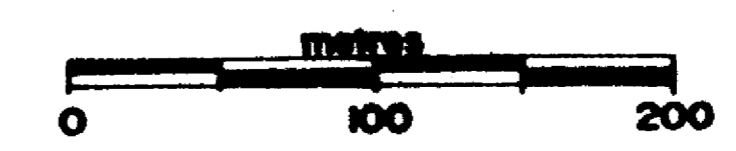
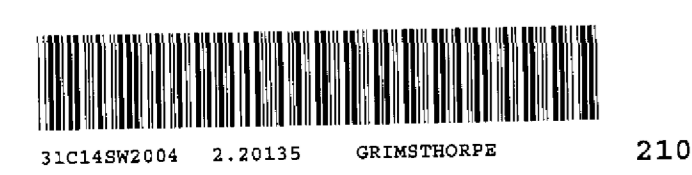
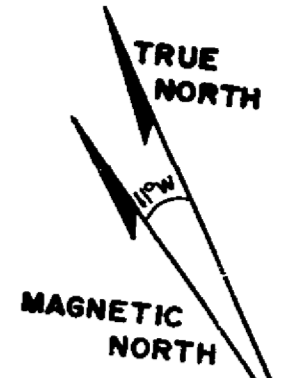
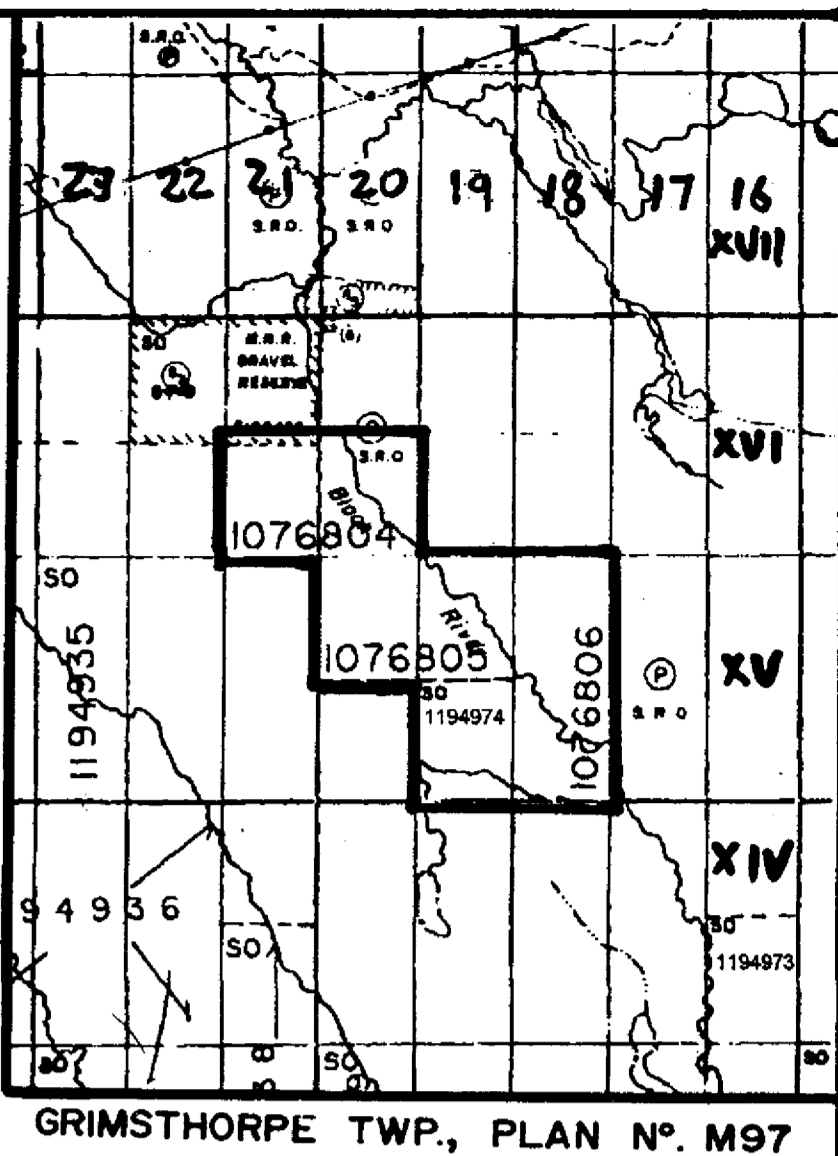
PLAN M.97

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEY AND MAPPING BRANCH



310160004 2-20135 GRIMSTHORPE 200

41N 40N 39N 38N 37N 36N 35N 34N 33N 32N 31N 30N 29N 28N 27N 26N 25N 24N 23N 22N 21N 20N



**LOCATION OF GOLD AND POSSIBLE
KIMBERLITE INDICATOR MINERALS
COMPILATION MAP
BLACK RIVER PROPERTY,
GRIMSTHORPE TWP, ONTARIO**

SCALE 1:25,000 DRAWN BY: RJD DATE: FEBRUARY 2000

2.21035