



41P15NW8285 2.7242 BANNOCKBURN

010

REPORT ON GEOLOGICAL AND RADIOMETRIC SURVEYS  
GALER GROUP OF CLAIMS  
BANNOCKBURN TOWNSHIP  
LARDER LAKE MINING DIVISION  
PROVINCE OF ONTARIO

by

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MINING LANDS SECTION

F. J. Evelegh

Manville Canada Inc.  
Exploration Department

September 17, 1984  
Matheson, Ontario.



41P15NW8285 2.7242 BANNOCKBURN

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List of Maps Accompanying Report:

- Geological & Topographic Plan - Scale 1" = 200'
- Detail Geology & Trench Plan - Scale 1" = 20'
- Legend Sheet
- Radiometric Survey Plan - Scale 1" = 200'

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REPORT ON GEOLOGICAL AND RADIOMETRIC SURVEYS  
GALER GROUP OF CLAIMS  
BANNOCKBURN TOWNSHIP  
LARDER LAKE MINING DIVISION  
PROVINCE OF ONTARIO

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Introduction:

The following report describes the geological and radiometric surveys which were carried out during April and May, 1984, on five mining claims recorded in the name of Manville Canada Inc. and located in Bannockburn Township, Larder Lake Mining Division.

Cutting and chaining of the north-south grid over the out-crop area were completed by Company personnel based at the Matheson exploration office.

Geological mapping was conducted by R.F. Kaltwasser, Senior Fieldman with Manville Canada Inc., and the writer, assisted by Company personnel who stripped the moss from outcrops, prospected and traversed overburden-covered areas.

Radiometric surveying was carried out by R.F. Kaltwasser using a Sharpe's GIS-2 Gamma Ray Integrating Spectrometer. The picket lines established in 1981, for magnetic and electromagnetic surveys, were used for the radiometric work.

Interpretation of the data and compilation of the report were the responsibility of the writer, Exploration Manager with Manville Canada Inc., based at Matheson, Ontario.

Property:

The claims surveyed are situated in Bannockburn Township and are numbered L-579566 to 579569, inclusive, and 579600. Staking of the first four claims was completed in mid-November, the fifth was staked on December 15th. The claims were recorded on November 20th and December 18th, 1980, respectively, and were transferred to Johns-Manville Canada Inc. in May, 1981. During mid-1983 the Group was transferred to

Manville Canada Inc.

Total acreage is approximately 200.

Location and Accessibility:

The Galer Group is located in the northeastern part of Bannockburn Township at a distance of approximately twelve miles west of Matachewan.

Ready access is provided by a secondary to tertiary gravel road - Highway No. 568 - Matachewan to Timmins. A foot trail leads to the south from this highway to the northwest corner of the claims - approximately one-half mile.

During the 1984 program, a J-5 muskeg tractor was used to transport men and supplies from the Highway to the main showings. A tent camp was established on a small creek in the central part of the claims.

Topography:

The terrain is generally low and rolling with a series of sand and boulder-covered ridges trending in a southeasterly direction across the property. In the southeast part of the area a sizeable hill reaches a height of approximately 100' above the creek elevation.

Forest cover is mainly second growth poplar, birch and jack pine. A spruce, cedar and alder swamp fills a U-shaped depression along the north boundary of the property.

Two small streams, generally dry during the summer months, flow northward through the claims. One is located along the east boundary, the other is in the central section. There is a beaver pond in the north part of claim L-579567.

Rock outcrops are confined to the three easterly claims and occur scattered along the ridge and hill tops. Intermediate volcanics, Cobalt conglomerate and syenite were noted during the 1981 survey work.

Previous Work:

Examination of Company libraries in Matheson and Asbestos revealed a considerable amount of geological and geophysical data for the general Bannockburn area. The earliest Government Report was Memoir 115 - Geology of the Matachewan Area by H.C. Cooke - which was published in 1919.

In 1932, H.C. Rickaby compiled a report on the Bannockburn Gold Area which was published in the Forty-First Annual Report of the Ontario Department of Mines. Map No. 41a, on a scale of one inch equals 3/4's of a mile accompanies this report. The showing on the Galer claims is described on page 18 of the report.

Aeromagnetic Maps on scales of one inch equals 1/2 mile and one mile have been published jointly by the O.D.M. - G.S.C. These were used extensively prior to staking claims in the Matachewan region.

Map No. 2205 - the Timmins-Kirkland Lake Sheet of the Geological Compilation Series, on a scale of one inch equals four miles, also covers the area.

In 1984, the Ontario Dept. of Mines issued Preliminary Map No. 1021 - Airborne Electromagnetic and Total Intensity Magnetic Survey for Bannockburn Township.

Note that during the early 1970's Johns-Manville held the Galer claims and carried out a biogeochemical survey. Due to the negative results obtained the property was allowed to lapse. The target at that time was Cu-Mo mineralization.

During the field season of 1981 an east-west picket line grid was established on the Galer claims and magnetic and electromagnetic surveys were conducted. The results of this work were compiled in a report which was submitted to the Ministry of Natural Resources for assessment purposes in October, 1981.

### Line Cutting and Chaining:

Base Line No. 1 was started from a point 240 feet west of the No. 4 post of claim L-579600 (along the south boundary of claim L-579569) and was cut and chained on a bearing of N5 E for a length of 2,630 feet. Base Line No. 2 was started from the No. 4 post of claim L-579600 and cut and chained due south for a length of 1,010 feet.

Right-angled offset lines, spaced at 400' intervals, were cut and chained east and west to the claim boundaries. Marked pickets were established every 100' along these offset lines by chainage. Note that claim lines along the main part of the north boundary and along the south boundary of L-579569 were cut out, chained and used as part of the grid for survey purposes.

Total miles of base (0.70) and picket lines (4.62) cut and chained by Company personnel during July and August, 1981 was 5.32.

For the purpose of detailed geological mapping over the outcrops and showings, picket line 0+00 (1981 grid) was established as Base Line No. 3 and picket lines, trending S10 E, and spaced at 200' intervals, were cut and chained to the southeast to the limits of the Syenite showing.

A total of 2.12 miles of picket lines was cut and chained during the 1984 program.

### General Geology:

The Geology of Bannockburn Township is described by H.C. Rickaby in the Forty-First Annual Report of the Ontario Dept. of Mines, 1932. Although several reports have been issued since that date, the majority cover the area to the east of Bannockburn Township. The following "Table of Formations" has been taken from page 5 of Geological Report 51 on the Matachewan Area compiled by H.L. Lovell and published by the O.D.M. in 1967.

General Geology: (cont'd)

Table of Formations

Cenozoic

Recent : Swamp and stream deposits  
Pleistocene: Sand, gravel, clay

Unconformity

PRECAMBRIAN

Proterozoic

Mafic Intrusive Rocks (Nipissing):  
Diabase

Intrusive contact

Huronian:

Cobalt Group (Gowganda Formation):  
Argillaceous & arkosic quartzite, conglomerate, argillite,  
arkose.

Unconformity

Archean

Mafic Intrusive Rocks (Matachewan):  
Diabase, undifferentiated

Intrusive contact

Silicic Intrusive Rocks (Algoman):

Granite: granodiorite & granitic gneiss; syenite porphyry  
and coarse-grained syenite; syenite; mafic syenite,  
lamprophyre, quartz diorite and diorite.

Intrusive contact

Ultramafic and Mafic Intrusive Rocks (Haileyburian):  
Serpentinite, diorite

Intrusive contact

Sedimentary Rocks (Timiskaming):

Conglomerate; graywacke and interbedded argillite and  
quartzite; arkose

Unconformity

Volcanic Rocks (Keewatin):

Basalt and andesite; bleached, silicified, sericitized  
volcanic rocks; andesite porphyry, tuff (banded, and massive  
types); agglomerate; rhyolite and dacite; carbonatized  
and amygdaloidal volcanic rocks; amphibolite.

As part of the 1981 exploration program on the Galer claims reconnaissance type mapping of the topography and rock outcrops was conducted by R. Kaltwasser. As previously mentioned, bedrock exposures are confined to the three easterly claims. Cobalt conglomerates were mapped on the most southerly claim and these overlie the syenite to the northeast. The syenite occurs as a plug extending in a southeasterly direction off

General Geology: (cont'd)

the property. This syenite is purple to red in colour, is mineralized with disseminated pyrite and is cut by narrow, quartz-filled fractures.

To the north, the rock types are volcanic flows-pillowed andesites intruded by narrow diabase dikes. Pyrite mineralization was noted in these volcanics.

The Galer quartz vein occurs in a fracture zone striking to the north and has a maximum width of approximately 30 feet.

Geological Survey:

During the fall of 1981 prospecting and reconnaissance-type geological mapping were carried out on the Galer Group. At that time grab samples were collected from the Galer and Syenite showings and assayed for gold and silver. Results showed trace of gold in the Galer vein and up to 0.03 ozs. in mineralized, quartz-filled fracture zones in the syenite.

Detailed geological mapping, rock trenching using a gasoline-powered plugger, chip sampling and assaying were conducted over the outcrop areas in the eastern section of the property during the early part of the 1984 field season. The results of this work are shown on the accompanying "Geological and Topographical Plan" on a scale of 1" = 200' and on the "Detail Geology and Trench Plan" on a scale of 1" = 20'.

Rock types, structures and economic geology are described in the following paragraphs;-

Archean:-

Volcanic flow rocks - interbedded basalts and andesites- outcrop on the Galer hill in the east-central part of the property. These formations strike slightly north of west, dip vertically to steeply north and face northeast. The basalts weather dark grey to black (dark green on fresh surface), are fine grained, massive rocks and generally are mineral-



Geological Survey: (cont'd)

ized with pyrite and magnetite.

Along the north side of the Galer hill, in contact with the basalts, are two bands of gabbroic rocks. Contacts are gradational with the basalts to the south and andesites to the north. These gabbroic flow ? rocks are, in general, conformable with the basalts and andesites. They are medium grained, weather to a dark grey, and have a coarse surface texture. Tight fractures striking north-south and dipping steeply are filled with barren quartz stringers. A strong system of jointing strikes in a northwesterly direction with dips from  $70^{\circ}$  -  $80^{\circ}$  to the northeast. Magnetite content is low in comparison with the basalts to the south.

The andesites form a broad sequence, several hundreds of feet in thickness, to the south of the basalts. These rocks are massive, fine to medium grained, greenish-buff on the weathered surface, grey-green on fresh, with poorly formed pillows on many of the outcrops. Minor chloritic and carbonate alteration was noted in several of the exposures. In general, the schistosity strikes  $N80^{\circ}W$  with dips steeply to the northeast, approximately  $80^{\circ}$ . Adjacent to the transition zone along the north contact with the syenite, haematite mineralization was found in narrow cross fractures filled with quartz and reddish syenite.

A lenticular-shaped pluton of massive, pink to reddish syenite outcrops to the south of the andesites along the eastern boundary of the property. This rock is comprised of orthoclase, hornblende, biotite and minor quartz and magnetite. Narrow bands of syenite porphyry containing large phenocrysts of rounded feldspars occur within the pluton. Fracturing varies from east-west to  $N35^{\circ}E$  with dips ranging from  $30^{\circ}$  northwest to  $60^{\circ}$  -  $65^{\circ}$  northeast. Bluish carbonate was noted on several of the fracture faces.

Barren, white quartz veins with widths up to several feet were

Geological Survey: (cont'd)

mapped along the north contact of the syenite and on the east boundary of the claims.

A lamprophyre dike, having a width of approximately 15' and striking steeply northeasterly, has been mapped in the basalts along the Galer quartz vein system. Two southwesterly trending dikes, one having a width of 20', the other 100', occur in the syenite pluton. The lamprophyres have a deeply weathered, pock-marked surface giving a honey comb appearance. Weathering is dark, grey-black to purplish-grey. Biotite is the predominant mineral - no sulphides were observed.

Proterozoic: - (Huronian)

Cobalt sedimentary rocks of the Gowganda formation are exposed in the extreme southern part of the claims and reportedly rest unconformably on the Archean volcanics. These massive beds of conglomerate and greywacke are gently dipping to flat-lying and form a high outcrop ridge trending in a northwesterly direction across claims L-579600 and 579569. Red granite, syenite and greenstone pebbles and small boulders were noted in the conglomerate.

A Nipissing quartz diabase dike trending slightly east of north and dipping vertically has been mapped along the east side of the Galer showing. Contacts with the massive basalts and gabbroic flow to the north are sharp. To the south, in the andesites, no outcrops were discovered, however, a low but prominent ridge extends to the creek along the north edge of the syenite pluton. The diabase is fine to medium grained and weathers a dull brownish-grey.

Quartz veins appear to be of two ages. One system strikes in an east-west direction with steep dips to the northeast. These veins are white, barren of sulphide mineralization and range in width from a few inches to approximately 10 feet. A second set strikes north-south, dip

Geological Survey: (cont'd)

30° to 60° east and cuts the easterly trending vein systems. The quartz is milky to grey and contains minor pyrite mineralization. Vein widths vary from minute fractures to 12 inches or more.

Structures:-

Regionally, the property is reportedly on the gently folded south limb of an east-west trending syncline. Locally, faulting on the Galer Group has been sharply defined by the detailed geologic-topographic mapping and study of aerial photographs and geophysical maps.

Two major structures, trending slightly north of west, were noted on the aerial photographs, one in the extreme south part of the property along the edge of the conglomerate ridge, the other cutting the andesites in the north part of the claims. Steeply northwesterly and northeasterly striking fault zones have been delineated in the north, east-central and along the east boundary of the Group.

Several minor cross faults were noted during the mapping along the western edge of the Galer hill. Quartz-filled fractures are generally found adjacent to these structures.

A moderate shear zone was mapped in the andesites immediately to the north of the syenite pluton. This structure strikes east-west and dips steeply north.

Economics:-

Details of the geology of the three main showings are shown on the accompanying "Trench Plan" on a scale of 1" = 20'. Mapping and economics of these showings are discussed in the following paragraphs.

The Galer showing is comprised of a series of narrow quartz lenses, ranging in width up to 12 inches, which have been exposed in pits and trenches over a length of 400 feet. This fracture zone strikes in a north-south direction with dips steeply to the east and is bounded by

Geological Survey: (cont'd)

a diabase dike on the east. A biotite lamprophyre strikes in a north-easterly direction through the main showing area.

The host rocks to the south of the gabbroic flow are amphibolite and basalt, weakly carbonated and mineralized with minor, fine pyrite and magnetite. To the north the Galer vein has been mapped in the andesites along the edge of the Galer hill.

Grab and chip sampling of the Galer zone failed to reveal any gold values of economic importance.

A series of quartz veins, ranging in width up to 6', were mapped along a small creek adjacent to an east-west trending shear in the transition zone along the andesite-syenite contact. The quartz is white with smokey sections, generally barren of pyrite mineralization, and is cut by narrow, north-striking quartz stringers of later age.

Sampling of this zone failed to reveal any gold values of interest.

Several weak to moderate shears were mapped in the south part of the syenite pluton. A zone, mineralized with pyrite, and striking in a northeasterly direction, is associated with this shearing. Cross fractures within this zone are quartz-filled and contain fine to coarse pyrite. The Syenite showing has been exposed in four trenches over a length of 130' with widths ranging from 10 to 24 feet.

The syenite varies in colour from a deep purple-grey, barren of sulphides, in the north part of all four trenches, to a deep rose-pink, fractured and mineralized with pyrite in the south part.

Gold values from both grab and chip samples were sub-ore.

### Radiometric Survey:

Radiometric surveying was conducted by R.F. Kaltwasser during the period April 26th to May 4th, 1984. A Sharpe's GIS-2 Gamma Ray Integrating Spectrometer (Serial No. 710123) was used for this work.

Readings were recorded with the ratemeter set on the 10 scale range at an 8 second meter time constant. Counts per second were taken with the threshold control setting at 0.30 (0.30 MeV), 5.00 (1.7 MeV) and 7.65 (2.5 MeV). With the threshold control set to 0.30 nearly all the gamma rays are counted; if the control is set to 5.00 only those due almost entirely to Uranium and Thorium will be counted, and, finally, with the setting at 7.65 only those due to Thorium will be counted.

All three counts were recorded at each station and have been plotted on the accompanying Radiometric Plan on a scale of 1" = 200'. Note that all pertinent topographic data has been marked on this map.

Stations were spaced at 50' intervals along the picket lines and a total of 1,317 readings was recorded with the probe at ground level.

Contour lines have been drawn around readings having total counts of 0.30, 0.20 and 0.10 c.p.s. in an attempt to correlate with changes in overburden and rock types.

With the exception of the easterly claims the group is drift-covered with sand, boulder till and swamp deposits. Total counts range from 0.10 to 0.28 c.p.s. with the scattered, isolated high values believed caused by granitic boulders.

Total counts over the volcanics are generally low, averaging 0.12 c.p.s., but range from 0.08 to 0.24. Uranium + Thorium values vary from 0.02 to 0.12 with Thorium ranging from 0.02 to 0.10 c.p.s.

To the south, over the syenite, total counts are considerably higher reaching 0.32 c.p.s. (due to the higher Potassium content); Uranium + Thorium has a maximum value of 0.19 with Thorium reaching a peak of 0.12 c.p.s.

Radiometric Survey: (cont'd)

Values over the sediments in the extreme southeast part of the group are markedly similar to those recorded over the volcanics.

Conclusions and Recommendations:

The results of the exploration programs - geologic, magnetic, electromagnetic and radiometric surveys, trenching using a gasoline-powered plugger, sampling of showings and assaying - have failed to reveal any economic mineralization on the Galer Group of claims.










It is therefore recommended that all data be reviewed during the early part of 1985 prior to planning any further exploration work on this property.








Submitted: September 17th, 1984

by: F.J. Evelegh  
Exploration Manager

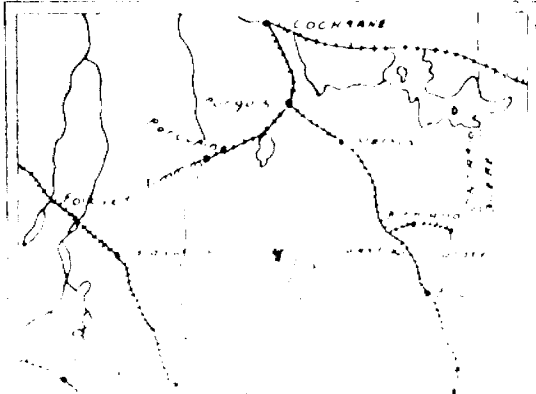
## GEOL. LEGEND

-  Quartz diabase, diabase.
-  Granite, Syenite 5, Feldspar porphyry 5a, Quartz feldspar 5d, Felsite 5e, Lamprophyre 5a.
-  Diorite 4a, Gabbro diabase 4b, Brec 1a 4c, Peridotite & Dunite (Serpentinized) (Asb. - Asbestos recognized)
-  Pyroxenite 4d.
-  Rhyolite fragmental lava
-  Andesite basalt pillow lava 2a, Diabasic lava 2b, Spherulitic lava 2c, Fragmental lava 2d, Tuff & chert 2e, Talc-chlorite schist 2f.
-  Greywacke 1a, Arkose 1b, Quartzite 1c, Argillite or shale 1d, Conglomerate 1e, Iron formation 1f, Chlorite schist 1g.
-  Carbonate rock
-  Quartz veins










## GEO-MAG SYMBOLS

-  Contour interval 500 gammas
  -  Magnetic Base Control Station
  -  Geological Contact
  -  Fault Zone
  -  Mag. Profile
- G- Geological  
 M- Magnetic  
 T- Topographic

LOCATION SKETCH - 1" = 50 Miles








## TOPO-SYMBOLS

-  Outcrop
-  Higher ground
-  Scarp
-  Muskeg or Swamp
-  Creek
-  Drill hole
-  Bush road
-  Direction in which lava flows face, indicated by shape of pillows
-  strike and dip



## ELECTRO-MAG SYMBOLS

### GEONICS 15 UNIT


-  Conductive Zone (Red)
-  Magnetic Conductor (Blue)
-  Nil
- Scale - 20 units = 1 inch
- West & South - Pos. (Red)
- East & North - Neg. (Blue)

-  Scale - 40 units = 1 inch
-  Conducting Zone - S - Strong, M - Medium, W - Weak

### RONKA H.L. UNIT

-  In phase curve
-  Out phase curve
- NPCS Not proper coil spacing
- East - Positive. West - Negative

### M'PHAR V.L. UNIT

-  Dip angle profile
- North & East - Positive
- South & West - Negative

Geol. Survey by -  
 Mag. Survey by -  
 E.M. Survey by -

LEGEND SHEET  
 PROVINCE OF ONTARIO



# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0  
TELEPHONE: (705) 642-3244  
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

## Certificate of Analysis

Certificate No. 57949

Date: June 20, 1984

Received June 13, 1984 11 Samples of ore

Submitted by Johns-Manville Canada Inc., Matheson, Ontario

SAMPLE NO.	GOLD Oz./ton
1825	0.005
1826	0.002
1827	0.005
1828	0.005
1829	Nil
1830	0.01





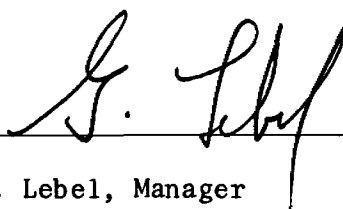
# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0  
TELEPHONE: (705) 642-3244  
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

## Certificate of Analysis

Certificate No. 57949 Date: June 20, 1984  
Received June 13, 1984 11 Samples of ore  
Submitted by Johns-Manville Canada Inc., Matheson, Ontario

SAMPLE NO.	GOLD Oz./ton
1825	0.005
1826	0.002
1827	0.005
1828	0.005
1829	Nil
1830	0.01 0.02 <i>→ Reddish syrite</i>
1831	0.002
1832	Nil
1833	Nil
1834	0.002
1835	Nil

Per   
G. Lebel, Manager

ESTABLISHED 1928



Ministry of Natural Resources

File \_\_\_\_\_

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL  
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT  
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT  
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geological & Geophysical  
Township or Area Bannockburn  
Claim Holder(s) Manville Canada Inc.  
Box 610, Matheson, Ontario POK 1N0  
Survey Company ---  
Author of Report F.J. Evelegh  
Address of Author same as above  
Covering Dates of Survey April 26th to June 15/84  
(linecutting to office)  
Total Miles of Line Cut 5.32

MINING CLAIMS TRAVERSED  
List numerically

L	-579566
(prefix)	(number)
L	-579567
L	-579568
L	-579569
L	-579600

SPECIAL PROVISIONS  
CREDITS REQUESTED

DAYS  
per claim

ENTER 40 days (includes  
line cutting) for first  
survey.

ENTER 20 days for each  
additional survey using  
same grid.

Geophysical  
-Electromagnetic \_\_\_\_\_  
-Magnetometer \_\_\_\_\_  
-Radiometric 20.0  
-Other \_\_\_\_\_  
Geological 20.0  
Geochemical \_\_\_\_\_

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: Sept 17/84 SIGNATURE: F. J. Evelegh  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 63-1067

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 5

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations \_\_\_\_\_ Number of Readings \_\_\_\_\_

Station interval \_\_\_\_\_ Line spacing \_\_\_\_\_

Profile scale \_\_\_\_\_

Contour interval \_\_\_\_\_

MAGNETIC

Instrument \_\_\_\_\_

Accuracy - Scale constant \_\_\_\_\_

Diurnal correction method \_\_\_\_\_

Base Station check-in interval (hours) \_\_\_\_\_

Base Station location and value \_\_\_\_\_

ELECTROMAGNETIC

Instrument \_\_\_\_\_

Coil configuration \_\_\_\_\_

Coil separation \_\_\_\_\_

Accuracy \_\_\_\_\_

Method:  Fixed transmitter  Shoot back  In line  Parallel line

Frequency \_\_\_\_\_  
(specify V.L.F. station)

Parameters measured \_\_\_\_\_

GRAVITY

Instrument \_\_\_\_\_

Scale constant \_\_\_\_\_

Corrections made \_\_\_\_\_

Base station value and location \_\_\_\_\_

Elevation accuracy \_\_\_\_\_

INDUCED POLARIZATION  
RESISTIVITY

Instrument \_\_\_\_\_

Method  Time Domain  Frequency Domain

Parameters - On time \_\_\_\_\_ Frequency \_\_\_\_\_

- Off time \_\_\_\_\_ Range \_\_\_\_\_

- Delay time \_\_\_\_\_

- Integration time \_\_\_\_\_

Power \_\_\_\_\_

Electrode array \_\_\_\_\_

Electrode spacing \_\_\_\_\_

Type of electrode \_\_\_\_\_

SELF POTENTIAL

Instrument \_\_\_\_\_ Range \_\_\_\_\_

Survey Method \_\_\_\_\_

Corrections made \_\_\_\_\_

RADIOMETRIC

Instrument Sharpes GIS-2 Gamma Ray Integrating Spectrometer

Values measured Total - Uranium + Thorium - Thorium, in counts per second

Energy windows (levels) 0.30 1.7 2.5 MeV

Height of instrument ground level Background Count 0.08

Size of detector 2" x 2" sodium iodide crystal

Overburden sand, boulders, till, swamp deposits  
(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey \_\_\_\_\_

Instrument \_\_\_\_\_

Accuracy \_\_\_\_\_

Parameters measured \_\_\_\_\_

Additional information (for understanding results) \_\_\_\_\_

AIRBORNE SURVEYS

Type of survey(s) \_\_\_\_\_

Instrument(s) \_\_\_\_\_  
(specify for each type of survey)

Accuracy \_\_\_\_\_  
(specify for each type of survey)

Aircraft used \_\_\_\_\_

Sensor altitude \_\_\_\_\_

Navigation and flight path recovery method \_\_\_\_\_

Aircraft altitude \_\_\_\_\_ Line Spacing \_\_\_\_\_

Miles flown over total area \_\_\_\_\_ Over claims only \_\_\_\_\_



1000/1/10

Mining Lands Section

File No 7242  
~~2-27-12~~

Control Sheet

TYPE OF SURVEY	<input checked="" type="checkbox"/>	GEOPHYSICAL
	<input checked="" type="checkbox"/>	GEOLOGICAL
	<input checked="" type="checkbox"/>	GEOCHEMICAL
	<input checked="" type="checkbox"/>	EXPENDITURE

MINING LANDS COMMENTS:

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L. D.

L. D.

Dennis K.

Signature of Assessor

Nov. 15/84

Date

1984 11 21

File: 2.7242

Mining Recorder  
Ministry of Natural Resources  
4 Government Road East  
Kirkland Lake, Ontario  
P2N 1A2

Dear Sir:

RE: Geophysical (Radiometric) and Geological  
Survey and Data for Assaying on Mining  
Claims L 579566 et al in the Township  
of Bannockburn

---

The Geophysical (Radiometric) and Geological Survey  
and Data for Assaying assessment work credits as  
shown on the attached statement have been approved  
as of the above date.

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

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: (416) 965-4888

D. Kinvig:mc

cc: Manville Canada Inc  
P.O. Box 610  
Matheson, Ontario  
POK 1N0

cc: Resident Geologist  
Kirkland Lake, Ontario

Encl.



Ontario

Ministry of Natural Resources

# Technical Assessment Work Credits

File 2.7242

Date 1984 11 21

Mining Recorder's Report of Work No.

Recorded Holder  
MANVILLE CANADA INC

Township or Area  
BANNOCKBURN TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic _____ days Magnetometer _____ days Radiometric _____ 20 _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ 20 _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	L 579566 to 69 inclusive 579600

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

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       Insufficient technical data filed

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





Recorded Holder  
**MANVILLE CANADA INC**

Township or Area  
**BANNOCKBURN TOWNSHIP**

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<p><b>Geophysical</b></p> <p>Electromagnetic _____ days</p> <p>Magnetometer _____ days</p> <p>Radiometric _____ days</p> <p>Induced polarization _____ days</p> <p>Other _____ days</p> <p>Section 77 (19) See "Mining Claims Assessed" column</p> <p>Geological _____ days</p> <p>Geochemical _____ days</p> <p>Man days <input type="checkbox"/> Airborne <input type="checkbox"/></p> <p>Special provision <input type="checkbox"/> Ground <input type="checkbox"/></p> <p><input type="checkbox"/> Credits have been reduced because of partial coverage of claims.</p> <p><input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.</p>	<p>\$123.75 SPENT ON ASSAYING SAMPLES TAKEN FROM MINING CLAIMS:</p> <p style="padding-left: 100px;">L 579566</p> <p style="padding-left: 100px;">579568</p> <p style="padding-left: 100px;">579600</p> <p>8.25 DAYS CREDIT ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT</p>

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

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       Insufficient technical data filed

Ministry of  
Natural  
Resources

Notification of recording No *your file No 2-7242*  
of assessment work credits

Recording Office  
4 Government Road East  
Kirkland Lake, Ontario  
P2N 1A2

Lands Administration Branch  
Mining Lands Section  
Ministry of Natural Resources  
Room 1617, Whitney Block  
Queen's Park, Toronto  
M7A 1W3

RECORDED

SEP 18 1984

Date of recording of work: September 18, 1984 (Reports #413 & #414)

Recorded holder: Manville Canada Inc.

Address: P.O. Box 610, MATHESON, Ontario P0K 1N0

Township or Area: BANNOCKBURN

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	
Electromagnetic _____ days	L 579566 to L 579569 incl.
Magnetometer _____ days	L 579600
Radiometric <u>20</u> _____ days	
Induced polarization _____ days	
Section 86 (18) _____ days	
Geological <u>20</u> _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/>	Airborne <input type="checkbox"/>
Special provision <input type="checkbox"/>	Ground <input type="checkbox"/>

*See work statement.*

Notice to recorded holder:

Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.

Reports and maps are being forwarded to the Lands Administration Branch with this letter.

*[Signature]*  
Mining recorder  
George Koleszar/lp  
c.c.

Ministry of  
Natural  
Resources

Notification of recording  
of assessment work credits

*your file No. 2.7242*

Recording Office  
4 Government Road East  
Kirkland Lake, Ontario  
P2N 1A2

Lands Administration Branch  
Mining Lands Section  
Ministry of Natural Resources  
Room 1617, Whitney Block  
Queen's Park, Toronto  
M7A 1W3

Date of recording of work: September 18, 1984 (Report #412)  
Recorded holder: Manville Canada Inc.  
Address: P.O. Box 610, MATHESON, Ontario P0K 1N0  
Township or Area: BANNOCKBURN

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	
Electromagnetic _____ days	L 579566 to L 579569 incl.
Magnetometer _____ days	L 579600
Radiometric _____ days	
Induced polarization _____ days	
77-19 Section-86-(18) 1.65 _____ days	
Geological _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input type="checkbox"/> Ground <input type="checkbox"/>	

*See Revised work statement*

Notice to recorded holder:

- Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.
- Reports and maps are being forwarded to the Lands Administration Branch with this letter.

*[Signature]*  
Mining recorder  
George Koleszar/lp  
c.c.

hereby certify:

1. That I have a personal and intimate knowledge of the facts set forth in the report of work annexed hereto, having performed the work or witnessed same during and/or after its completion.
2. That the annexed report is true.

Manville Canada Inc.  
Exploration Dept.  
Box 610  
Matheson, Ontario P0K 1N0  
705-273-2265 or 2636  
Telex: 06782537

<b>RECEIVED</b>	
Land Management Branch	
CIRCULATE <input type="checkbox"/>	
COMMENTS PLEASE <input type="checkbox"/>	
BY	
NOV 15 1984	
S. E. YUNDT	
J. K. ...	
J. ...	
W. L. GOOD	
M. J. HOGAN	
W. P. BROOK	
R. 6643	

# Manville

November 9, 1984

Mr. S.E. Yundt  
Director  
Lands Management Branch  
Ministry of Natural Resources  
Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario M7A 1W3

Dear Sir:

Re: File No. 2.7242

Enclosed find copy of Invoice No. 9499 from Swastika Laboratories Ltd., in the amount of \$123.75, covering assaying fees for samples collected from showings on the Galer Group in Bannockburn Township.

As the receipted original copy of this invoice was submitted to Mr. G. Koleszar at the time of filing the assessment work, a photocopy of the cancelled cheque is attached.

Yours very truly,

  
F.J. Evelegh  
Exploration Manager

cc:  
file

Encls - 2

## RECEIVED

NOV 15 1984

### MINING LANDS SECTION

F.J. EVELEGH  
BOX 610  
MATHESON, ONT. POK 1N0  
(705) 273-2265

July 6 1977 299

Pay to the order of Swastika Laboratories Limited  
One hundred and twenty-three and 00/100 Dollars

CANADIAN IMPERIAL BANK OF COMMERCE  
MATHESON, ONT.

F. J. Evelegh

Inv. # 949

1299# 1050920010: 010015037#

#0000012375#

SWASTIKA LABORATORIES

LIMITED

DEPOSIT ONLY

ACCOUNT 252-7749

1145  
1974

JY 16 1974  
C.I.B.C.  
DATA CENTRE  
TOR. ONT.

416-2996

*File*

9489



# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0 TELEPHONE: (705) 642-3244

Johns-Manville Canada Inc.  
Box 610  
Matheson, Ontario  
POK 1N0

1.5% late charge over 30 days  
(annual rate 18%)

DATE	SHIP TO	FED. LICENCE NO.	PROV. LICENCE NO.	YOUR ORDER NO.	OUR ORDER NO.	TERMS	Net	AMOUNT
June 28/84						Net 30 days		
11	Au Assays						\$ 8.50	\$ 93.50
11	Sample handling Cert. No. 57949 June 20/84						2.75	30.25
Paid by cheque No. 299 July 6th, 1984 - chge 033								
TOTAL .....								\$ 123.75

MOORE BUSINESS FORMS 7000E

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS  
ESTABLISHED 1928

FACTURE / INVOICE



November 6, 1984

File: 2.7242

Manville Canada Inc  
P.O. Box 610  
Matheson, Ontario  
POK 1N0

Attention: F.J. Evelegh

Dear Sir:

RE: Data for Assaying submitted on  
Mining Claims L 579566 to 69  
inclusive and L 579600 in the  
Township of Bannockburn

---

Please provide a receipt or cancelled cheque as verification of the \$123.75 expenditure claimed. This was an oversight of my letter of October 16, 1984 and I apologize for having to write a second time on this matter. I assure you that upon receipt of the above information, assessment of the survey will be done promptly.

When returning the information, please quote file 2.7242.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone:(416)965-4888

D. Kinvig:mc

cc: Mining Recorder  
Kirkland Lake, Ontario  
File: #412



Manville Canada Inc.  
Exploration Dept.  
Box 610  
Matheson, Ontario POK 1N0  
705-273-2265 or 2636  
Telex: 06782537

27242  
**Manville**

October 22nd, 1984

Mr. S.E. Yundt  
Director  
Land Management Branch  
Ministry of Natural Resources  
Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario M7A 1W3

RECEIVED  
OCT 24 1984  
MINISTRY OF NATURAL RESOURCES

Dear Sir:

Re: File No. 2.7242

Returned herewith find duplicate copies of the Detail Geology and Trench Plan for the Galer Group in Bannockburn Township which accompanied the Geological Report on this block of claims.

Enclosed find Plugger Drilling - Blasting - Trench - Assay Plan, in duplicate, which accompanied the Report of Work forms submitted to Mr. G. Koleszar for assessment filing purposes. I believe this map will provide the information required.

Yours very truly,

F.J. Evelegh  
Exploration Manager

cc:  
file

Encls

ENCLOSURE	
Land Management Branch	
COMMUNICATIONS SECTION	
BY	
OCT 24 1984	
S. E. YUNDT	
J. R. [unclear]	
J. C. [unclear]	
W. L. GOOD	
M. J. HOGAN	
W. P. BROOK	
RECEIVED	11 3043

October 16, 1984

File: 2.7242

Manville Canada Inc  
P.O. Box 610  
Matheson, Ontario  
POK 1N0

Attention: Mr. F.J. Evelegh

Dear Sir:

RE: Geological survey and Data for Assaying  
submitted on Mining Claims L 579566 et al  
in the Township of Bannockburn

---

Enclosed is the geology plan, in duplicate, for the above-mentioned survey. Please indicate the sample locations and either the sample numbers or assay values on the plans and return them to this office quoting file 2.7242.

For further information, please contact Dennis Kinvig at (416)965-4888.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: (416)965-4888

D. Kinvig:mc

cc: Mining Recorder  
Kirkland Lake, Ontario  
File Nos: 412, 413 & 414

Encl.

**SEND TO** A. Barr, Land Management Branch  
Toronto, Ontario.

**FROM** Recording Office, Kirkland Lake, Ontario. Oct. 2/84 DEPT. DATE

**SUBJECT** Work Reports #412, #413, #414. Your File 2.7242

Hi Arthur:

As per your telephone request to this office, I am enclosing signed notifications notices of the above reports along with a letter from Manville Canada Inc.

Regards,

*Janette*

RECEIVED  
OCT 10 1984

**REPLY**

REPLY FROM \_\_\_\_\_ REPLY DATE \_\_\_\_\_

**Manville Canada Inc.**  
Exploration Dept.  
Box 610  
Matheson, Ontario P0K 1N0  
705-273-2265 or 2636  
Telex: 06782537

# Manville

September 27th, 1984

Mr. G. Koleszar  
Mining Recorder  
4 Government Road, East  
Kirkland Lake, Ontario  
P2N 1A2

Dear Mr. Koleszar:

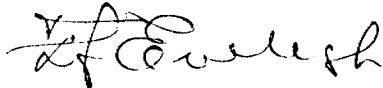
Re my letter of September 17th, last, with enclosed forms and report covering assessment work completed on mining claims L-579566-67-68-69-600 located in Bannockburn Township, the following information was omitted from the Special Provision form.

Ground Surveys

Number of Stations - 1,317	Number of Readings - 1,405
Station interval - 50'	Line spacing - 400'
Profile scale -	
Contour interval - 0.10 c.p.s.	

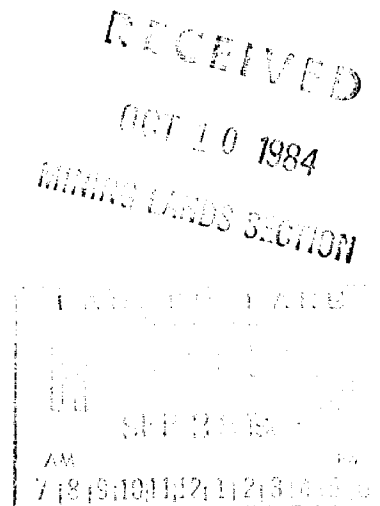
Kindly attached this data to Page 2 of the form.

Yours very truly,



F.J. Evelegh  
Exploration Manager

cc:  
file



1984 10 13

Your File:  
Our File# 2.7242

a

Mining Recorder  
Ministry of Natural Resources  
4 Government Road East  
Kirkland Lake, Ontario  
P2N 1A2

Dear Sir:

We received reports and maps on October 1, 1984 for a Geophysical (Radiometric) and Geological and Geochemical Survey submitted under Special Provisions (credit for Performance and Coverage) and data for assaying on Mining Claims L 579566 et al in the Township of Bannockburn.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with you prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone:(416)965-6918

A. Barr:sc

cc: Manville Canada Inc  
P.O. Box 610  
Matheson, Ontario  
POK 1N0



14

file

0

9499

# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0 TELEPHONE: (705) 642-3244

**SOLD TO**

Johns-Manville Canada Inc.  
Box 610  
Matheson, Ontario  
P0K 1N0

**SHIP TO**

1.5% late charge over 30 days  
(annual rate 18%)

DATE	SHIPPED VIA	FED LICENCE NO	PROV LICENCE NO	YOUR ORDER NO	OUR ORDER NO	TERMS	SALESMAN
June 28/84						Net 30 days	
QUANTITY	DESCRIPTION				UNIT PRICE	AMOUNT	
11	Au Assays				\$ 8.50	\$ 93.50	
11	Sample handling Cert. No. 57949 June 20/84				2.75	30.25	
Paid by cheque No. 299 July 6th, 1984 - chge 033							
TOTAL .....						\$ 123.75	

MOORE BUSINESS FORMS 3 7060E

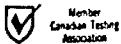
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS  
ESTABLISHED 1928

FACTURE / INVOICE



Per G. Lebel  
G. Lebel, Manager

ESTABLISHED 1928





*File*

9499

# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0 TELEPHONE: (705) 642-3244

SOLD TO

Johns-Manville Canada Inc.  
Box 610  
Matheson, Ontario  
POK INO

S  
H  
I  
P  
T  
O

S A M E

1.5% late charge over 30 days  
(annual rate 18%)

DATE	SHIPPED VIA	FED LICENCE NO	PROV LICENCE NO	YOUR ORDER NO.	OUR ORDER NO	TERMS	SALESMAN
June 28/84						Net 30 days	
QUANTITY	DESCRIPTION					UNIT PRICE	AMOUNT
11	Au Assays					\$ 8.50	\$ 93.50
11	Sample handling Cert. No. 57949 June 20/84					2.75	30.25
Paid by cheque No. 299 July 6th, 1984 - chge 033							
						TOTAL .....	\$ 123.75

MOORE BUSINESS FORMS 3 7060E

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

FACTURE / INVOICE

ESTABLISHED 1928



ARGYLE TWP. - M.203

MONTROSE TWP. - M.237

POWELL TWP. - M.241

DOON TWP. - M.217

THE TOWNSHIP OF  
OF  
**BANNOCKBURN**  
DISTRICT OF  
TIMISKAMING

LARDER LAKE  
MINING DIVISION

SCALE: 1-INCH - 40 CHAINS

DISPOSITION OF CROWN LANDS

- PATENT, SURFACE AND MINING RIGHTS ----- ●
- " , SURFACE RIGHTS ONLY ----- ○
- " , MINING RIGHTS ONLY ----- ◐
- LEASE, SURFACE AND MINING RIGHTS ----- ■
- " , SURFACE RIGHTS ONLY ----- □
- " , MINING RIGHTS ONLY ----- ◑
- LICENCE OF OCCUPATION ----- ▼

- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED

NOTES

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

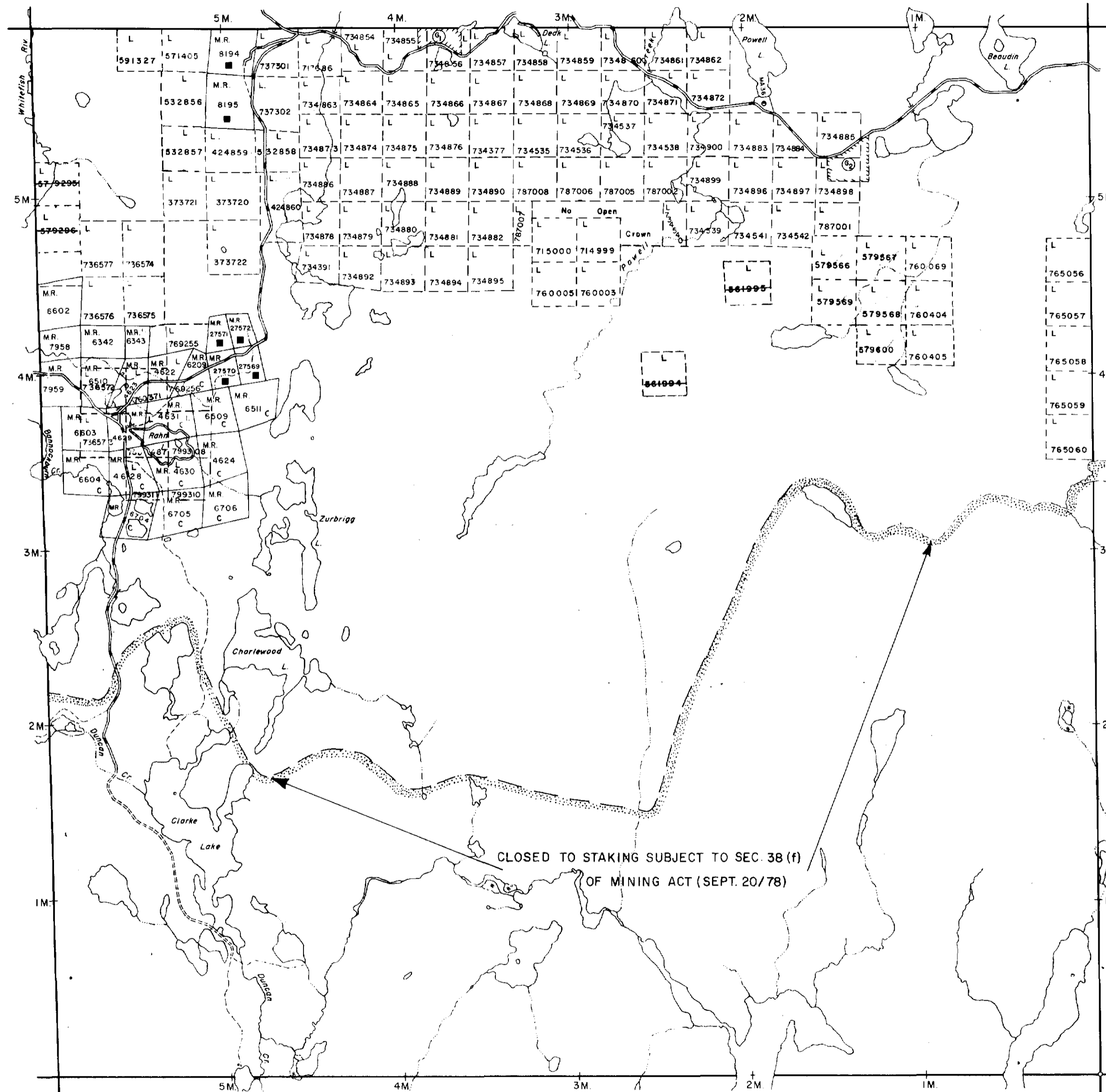
SAND and GRAVEL

- ⓐ) M.T.C. GRAVEL PIT 3F-25
- ⓑ) M.T.C. GRAVEL PIT 1374

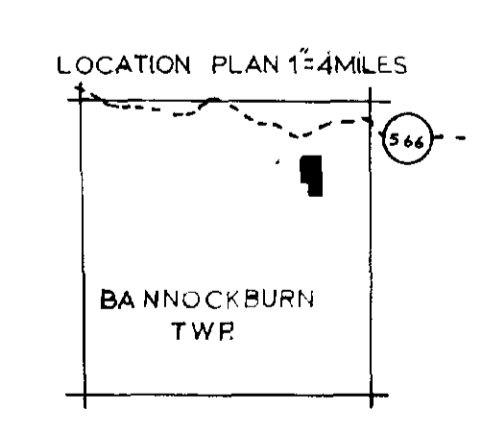
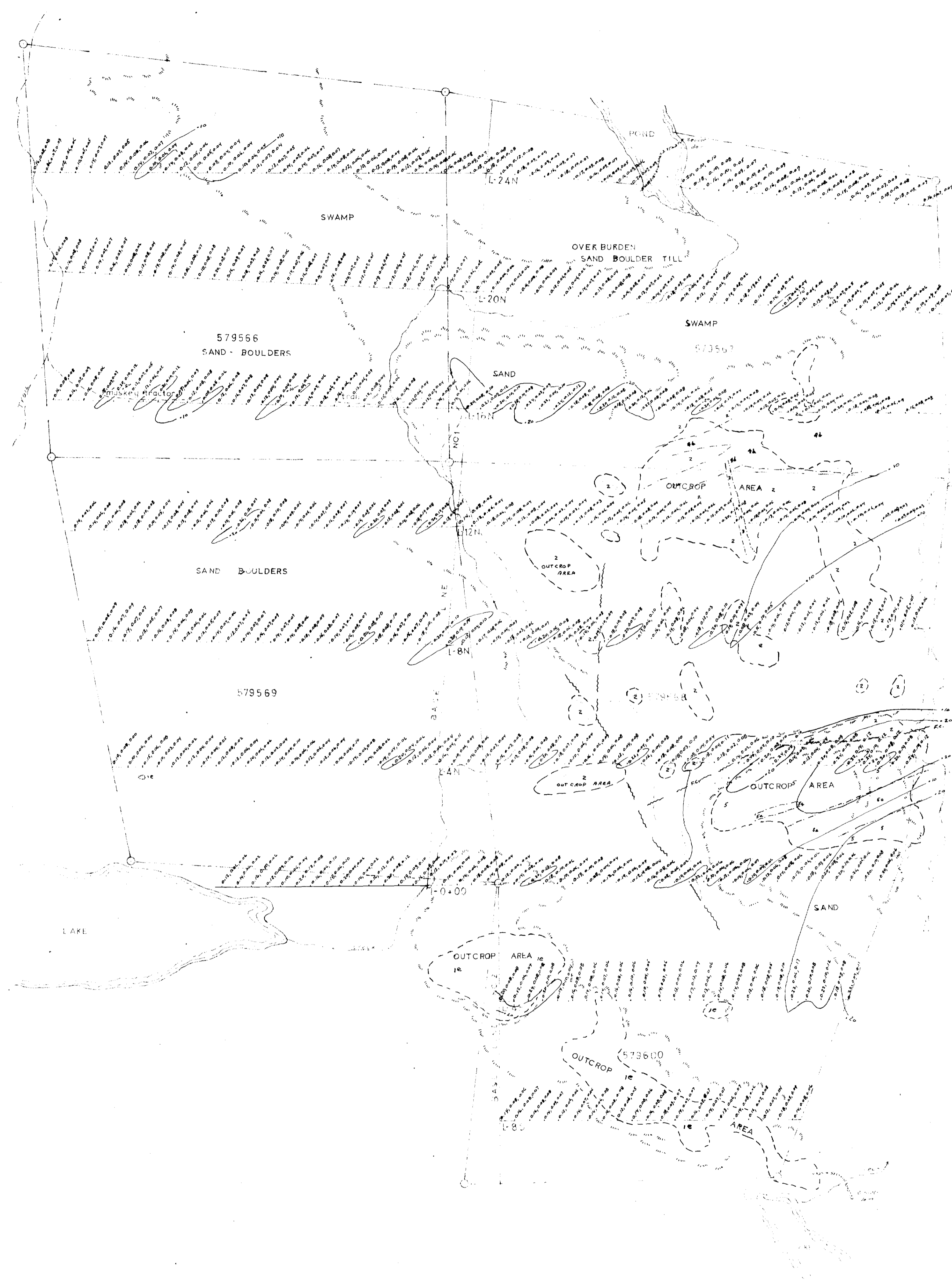
Ministry of Natural Resources  
TORONTO  
DEC 7 1984  
DATE OF ISSUE

PLAN NO. **M.207**

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH



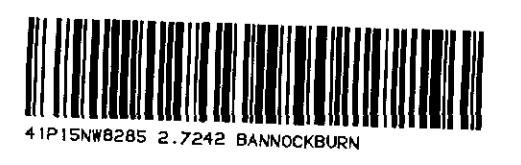




RADIOMETRIC SURVEY PLAN

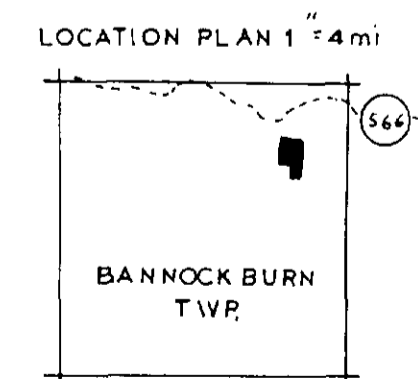
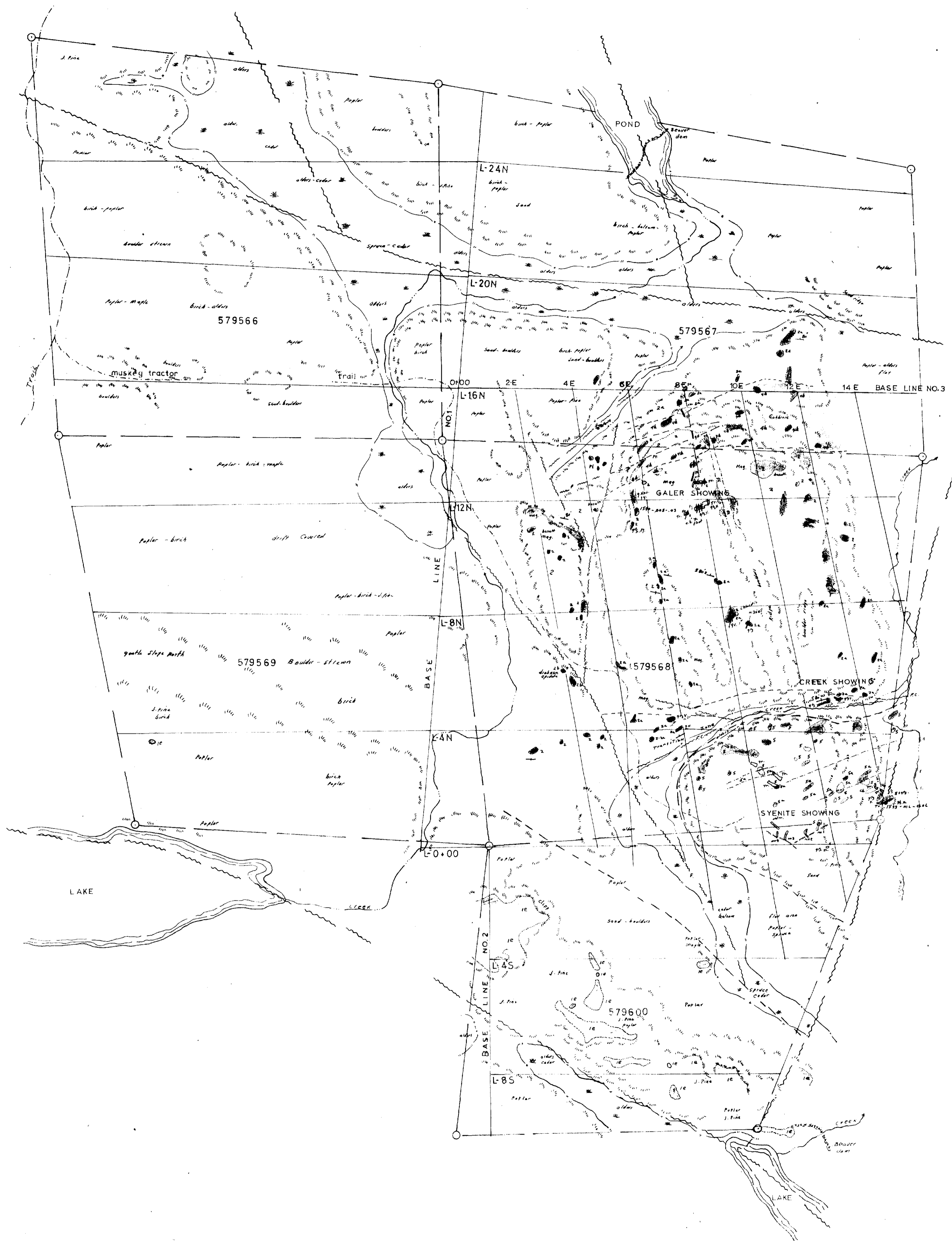
READINGS IN C.P.S.		
TOTAL	U-TH	TH
0.10	0.05	0.04

2.7242

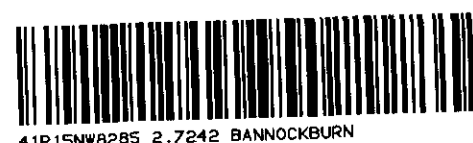


*R. KALTWASSER*

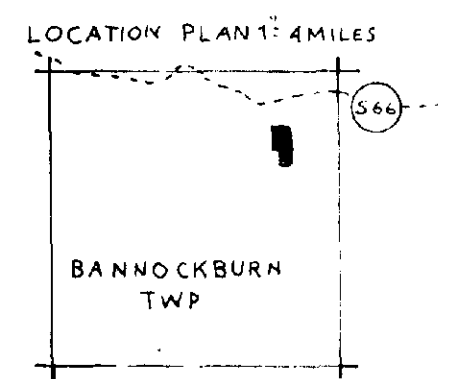
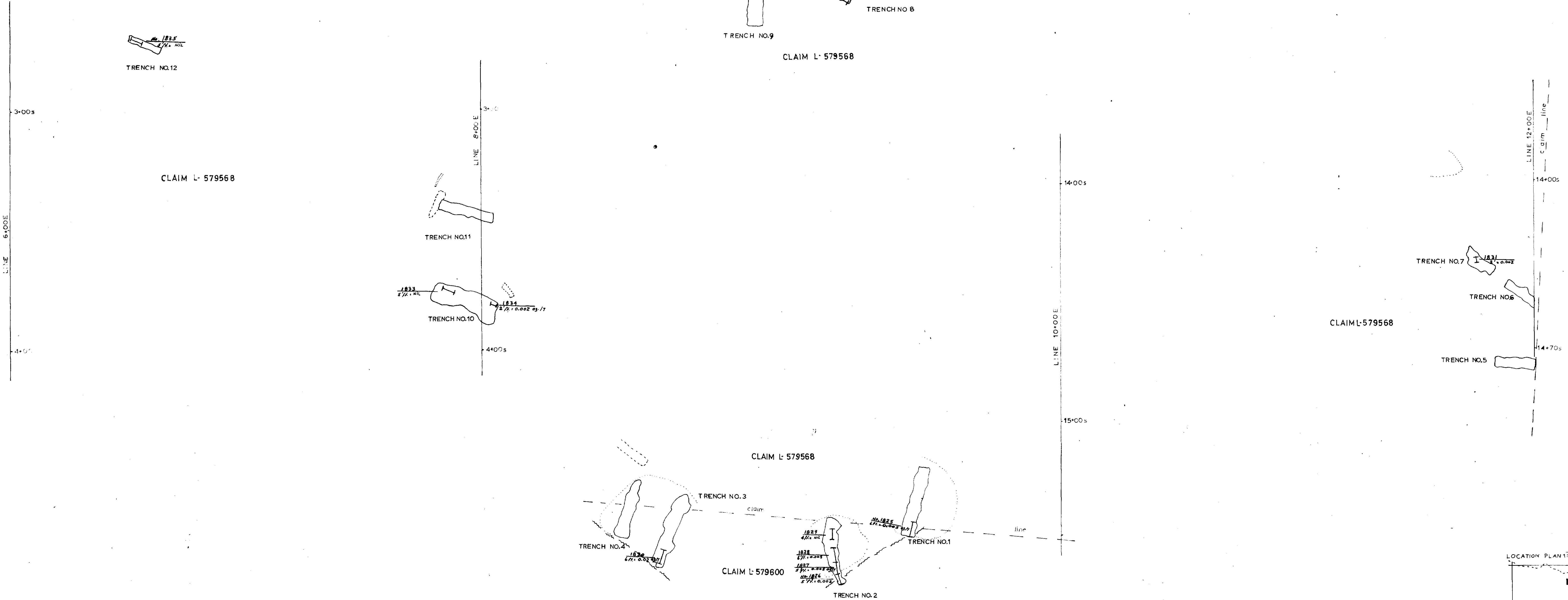
ALLEN CR. BANNOCKBURN TWP



27242







TRENCH LOCATION BANNOCKBURN TOWNSHIP LARDER LAKE MINING DIVISION			
trench	claim	location	dimension
1	L-579568	section 9+37 E.	5' x 29' x 2 feet
2	L-579600	section 9+05 E.	6' x 27' x 3 feet
3	L-579600	section 8+36 E.	6' x 34' x 2 feet
4	L-579600	section 8+15 E.	6' x 23' x 2 feet
5	L-579568	section 12+00 E.	4' x 17' x 3 feet
6	L-579568	section 12+00 E.	4' x 8' x 3 feet
7	L-579568	section 11+84 E.	4' x 18' x 3 feet
8	L-579568	section 11+20 E.	4' x 23' x 3 feet
9	L-579568	section 11+00 E.	6' x 14' x 5 feet
10	L-579568	section 8+00 E.	8' x 26' x 4 feet
11	L-579568	section 8+05 E.	4' x 22' x 2 feet
12	L-579568	section 6+50 E.	2' x 15' x 1 feet

MANVILLE CANADA INC.

SEP 17 1984

PLUGGER DRILLING-BLASTING-TRENCH PLAN ASSAYS AU OZ/TON





GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL  
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPEN  
FACTS SHOWN HERE NEED NC  
TECHNICAL REPORT MUST CONTAIN IT



41P15NW8285 2.7242 BANNOCKBURN

900

Type of Survey(s) Geological & Geophysical  
Township or Area Bannockburn  
Claim Holder(s) Manville Canada Inc.  
Box 610, Matheson, Ontario POK 1N0  
Survey Company --  
Author of Report F.J. Evelegh  
Address of Author same as above  
Covering Dates of Survey April 26th to June 15/84  
(linecutting to office)  
Total Miles of Line Cut 5.32

MINING CLAIMS TRAVERSED  
List numerically

L	-579566
(prefix)	(number)
L	-579567
L	-579568
L	-579569
L	-579600

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	<u>DAYS</u> <u>per claim</u>
ENTER 40 days (includes line cutting) for first survey.	Geophysical -Electromagnetic _____ -Magnetometer _____ -Radiometric <u>20.0</u>
ENTER 20 days for each additional survey using same grid.	-Other _____ Geological <u>20.0</u> Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: Sept 17/84 SIGNATURE: F.J. Evelegh  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications B 1061

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 5

OFFICE USE ONLY

SELF POTENTIAL

Instrument \_\_\_\_\_ Range \_\_\_\_\_

Survey Method \_\_\_\_\_

Corrections made \_\_\_\_\_

RADIOMETRIC

Instrument Sharpes GIS-2 Gamma Ray Integrating Spectrometer

Values measured Total - Uranium + Thorium - Thorium, in counts per second

Energy windows (levels) 0.30 1.7 2.5 MeV

Height of instrument ground level Background Count 0.08

Size of detector 2" x 2" sodium iodide crystal

Overburden sand, boulders, till, swamp deposits  
(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey \_\_\_\_\_

Instrument \_\_\_\_\_

Accuracy \_\_\_\_\_

Parameters measured \_\_\_\_\_

Additional information (for understanding results) \_\_\_\_\_

AIRBORNE SURVEYS

Type of survey(s) \_\_\_\_\_

Instrument(s) \_\_\_\_\_  
(specify for each type of survey)

Accuracy \_\_\_\_\_  
(specify for each type of survey)

Aircraft used \_\_\_\_\_

Sensor altitude \_\_\_\_\_

Navigation and flight path recovery method \_\_\_\_\_

Aircraft altitude \_\_\_\_\_ Line Spacing \_\_\_\_\_

Miles flown over total area \_\_\_\_\_ Over claims only \_\_\_\_\_

Mining Lands Section

File No 2. <sup>7242</sup>~~2742~~

Control Sheet

TYPE OF SURVEY	<u>✓</u>	GEOPHYSICAL
	<u>✓</u>	GEOLOGICAL
	<u>✓</u>	GEOCHEMICAL
	<u>✓</u>	EXPENDITURE

MINING LANDS COMMENTS:

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*L.F.*

*L.D.*

*Dennis K.*

Signature of Assessor

*Nov. 15/24*

Date



Ministry of  
Natural  
Resources

Ontario

**Technical Assessment  
Work Credits**

File  
2.7242

Date  
1984 11 21

Mining Recorder's Report of  
Work No.

<b>Recorded Holder</b>	MANVILLE CANADA INC
<b>Township or Area</b>	BANNOCKBURN TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic _____ days Magnetometer _____ days Radiometric _____ 20 _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ 20 _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	L 579566 to 69 inclusive 579600

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

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       Insufficient technical data filed





Recorded Holder: MANVILLE CANADA INC  
Township or Area: BANNOCKBURN TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	\$123.75 SPENT ON ASSAYING SAMPLES TAKEN FROM MINING CLAIMS: L 579566 579568 579600  8.25 DAYS CREDIT ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT

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

No credits have been allowed for the following mining claims  
 not sufficiently covered by the survey  Insufficient technical data filed

Ministry of  
Natural  
Resources

Notification of recording No  
your file No 2-7242  
of assessment work credits

Recording Office  
4 Government Road East  
Kirkland Lake, Ontario  
P2N 1A2

Lands Administration Branch  
Mining Lands Section  
Ministry of Natural Resources  
Room 1617, Whitney Block  
Queen's Park, Toronto  
M7A 1W3

Date of recording of work: September 18, 1984 (Reports #413 & #414)

Recorded holder: Manville Canada Inc.

Address: P.O. Box 610, MATHESON, Ontario P0K 1N0

Township or Area: BANNOCKBURN

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	
Electromagnetic _____ days	L 579566 to L 579569 incl.
Magnetometer _____ days	L 579600
Radiometric <u>20</u> _____ days	
Induced polarization _____ days	
Section 86 (18) _____ days	
Geological <u>20</u> _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/>	Airborne <input type="checkbox"/>
Special provision <input type="checkbox"/>	Ground <input type="checkbox"/>

*See work statement.*

Notice to recorded holder:

Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.

Reports and maps are being forwarded to the Lands Administration Branch with this letter.

George Koleszar  
Mining recorder  
George Koleszar/lp  
c.c.

Ministry of  
Natural  
Resources

Notification of recording  
of assessment work credits

your file No. 2.7242

Recording Office  
4 Government Road East  
Kirkland Lake, Ontario  
P2N 1A2

Lands Administration Branch  
Mining Lands Section  
Ministry of Natural Resources  
Room 1617, Whitney Block  
Queen's Park, Toronto  
M7A 1W3

Date of recording of work: September 18, 1984 (Report #412)

Recorded holder: Manville Canada Inc.

Address: P.O. Box 610, MATHESON, Ontario P0K 1N0

Township or Area: BANNOCKBURN

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	
Electromagnetic _____ days	L 579566 to L 579569 incl.
Magnetometer _____ days	L 579600
Radiometric _____ days	
Induced polarization _____ days	
77-19 Section-86-(18) 1.65 _____ days	
Geological _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/>	Airborne <input type="checkbox"/>
Special provision <input type="checkbox"/>	Ground <input type="checkbox"/>

*See revised work statement.*

Notice to recorded holder:

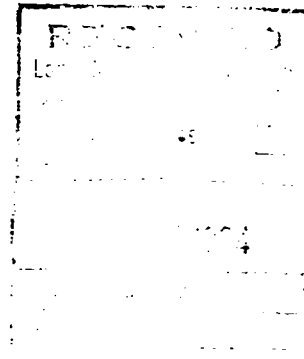
Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.

Reports and maps are being forwarded to the Lands Administration Branch with this letter.

  
Mining recorder  
George Koleszar/lp  
c.c.

Manville Canada Inc.  
Exploration Dept.  
Box 610  
Matheson, Ontario P0K 1N0  
705-273-2265 or 2636  
Telex: 06782537

**Manville**



November 9, 1984

Mr. S.E. Yundt  
Director  
Lands Management Branch  
Ministry of Natural Resources  
Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario M7A 1W3

W.P. BROOK  
W.P. BROOK

Dear Sir:

Re: File No. 2.7242

Enclosed find copy of Invoice No. 9499 from Swastika Laboratories Ltd., in the amount of \$123.75, covering assaying fees for samples collected from showings on the Galer Group in Bannockburn Township.

As the receipted original copy of this invoice was submitted to Mr. G. Koleszar at the time of filing the assessment work, a photocopy of the cancelled cheque is attached.

Yours very truly,

F.J. Evelegh  
Exploration Manager

cc:  
file

Encls - 2

**RECEIVED**

NOV 15 1984

**MINING LANDS SECTION**



# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0 TELEPHONE: (705) 642-3244

9489

Johns-Manville Canada Inc.  
Box 610  
Matheson, Ontario  
P0K 1N0

1.5% late charge over 30 days  
(annual rate 18%)

DATE	ORDER NO.	PRECEDENCE NO.	PREV. INVOICE NO.	YOUR ORDER NO.	OUR INVOICE NO.	TERMS	Net	TOTAL
June 28/84						Net 30 days		
11	Au Assays						\$ 8.50	\$ 93.50
11	Sample handling						2.75	30.25
	Cert. No. 57949 June 20/84							
Paid by cheque No. 299								
July 6th, 1984 - chge 033								
TOTAL .....								\$ 123.75

MOORE BUSINESS FORMS 5 FORM

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

FACTURE / INVOICE

ESTABLISHED 1928



Manville Canada Inc.  
Exploration Dept.  
Box 610  
Matheson, Ontario P0K 1N0  
705-273-2265 or 2636  
Telex: 06782537

# Manville

October 22nd, 1984

Mr. S.E. Yundt  
Director  
Land Management Branch  
Ministry of Natural Resources  
Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario M7A 1W3

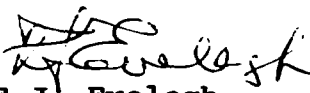
Dear Sir:

Re: File No. 2.7242

Returned herewith find duplicate copies of the Detail Geology and Trench Plan for the Galer Group in Bannockburn Township which accompanied the Geological Report on this block of claims.

Enclosed find Plugger Drilling - Blasting - Trench - Assay Plan, in duplicate, which accompanied the Report of Work forms submitted to Mr. G. Koleszar for assessment filing purposes. I believe this map will provide the information required.

Yours very truly,

  
F.J. Evelegh  
Exploration Manager

cc:  
file

Encls

SEARCHED	INDEXED
SERIALIZED	FILED
OCT 23 1984	
FBI - TORONTO	
W. L. GOOD	
M. J. H. ...	
W. P. ...	

SEND  
TO

A. Barr, Land Management Branch  
Toronto, Ontario.

FROM Recording Office, Kirkland Lake, Ontario. Oct. 2/84

SUBJECT Work Reports #412, #413, #414. Your File 2.7242

▶ Hi Arthur:

As per your telephone request to this office, I am enclosing signed notifications notices of the above reports along with a letter from Manville Canada Inc.

Regards,

Manville

REPLY

▶

▶

Manville Canada Inc.  
Exploration Dept.  
Box 610  
Matheson, Ontario P0K 1N0  
705-273-2265 or 2636  
Telex: 06782537

# Manville

September 27th, 1984

Mr. G. Koleszar  
Mining Recorder  
4 Government Road, East  
Kirkland Lake, Ontario  
P2N 1A2

Dear Mr. Koleszar:

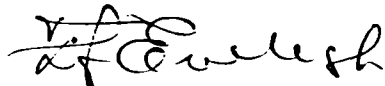
Re my letter of September 17th, last, with enclosed forms and report covering assessment work completed on mining claims L-579566-67-68-69-600 located in Bannockburn Township, the following information was omitted from the Special Provision form.

Ground Surveys

Number of Stations - 1,317	Number of Readings - 1,405
Station interval - 50'	Line spacing - 400'
Profile scale -	
Contour interval - 0.10 c.p.s.	

Kindly attached this data to Page 2 of the form.

Yours very truly,



F.J. Eveleigh  
Exploration Manager

cc:  
file





# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0 TELEPHONE: (705) 642-3244

949

**SOLD TO**

Johns-Manville Canada Inc.  
Box 610  
Matheson, Ontario  
POK 1N0

**S  
H  
I  
P  
T  
O**

1.5% late charge over 30 days  
(annual rate 18%)

DATE	SHIPPED VIA	FED. LICENCE NO.	PROV. LICENCE NO.	YOUR CHECK NO.	OUR ORDER NO.	TERMS	SALESMAN
June 28/84						Net 30 days	
QUANTITY	DESCRIPTION				UNIT PRICE	AMOUNT	
11	Au Assays				\$ 8.50	\$ 93.50	
11	Sample handling Cert. No. 57949 June 20/84				2.75	30.25	
Paid by cheque No. 299 July 6th, 1984 - chge 033							
TOTAL .....						\$ 123.75	

MOORE BUSINESS FORMS 3 7060E

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS  
ESTABLISHED 1928

FACTURE / INVOICE



Per

*G. Lebel*  
G. Lebel, Manager

ESTABLISHED 1928





*file*

9499

# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0 TELEPHONE: (705) 642-3244

**SOLD TO**

Johns-Manville Canada Inc.  
Box 610  
Matheson, Ontario  
POK 1N0

**S  
H  
I  
P  
T  
O**

1.5% late charge over 30 days  
(annual rate 18%)

DATE	SHIPPED VIA	FED LICENCE NO	PROV LICENCE NO	YOUR ORDER NO	OUR ORDER NO	TERMS	SALESMAN
June 28/84						Net 30 days	
QUANTITY	DESCRIPTION					UNIT PRICE	AMOUNT
11	Au Assays					\$ 9.50	\$ 93.50
11	Sample handling Cert. No. 57949 June 20/84					2.75	30.25
Paid by cheque No. 299 July 6th, 1984 - chge 033							
TOTAL .....							\$ 123.75

MOORE BUSINESS FORMS 3 7060E

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

FACTURE / INVOICE

ESTABLISHED 1928



1984 11 21

File: 2.7242

Mining Recorder  
Ministry of Natural Resources  
4 Government Road East  
Kirkland Lake, Ontario  
P2N 1A2

Dear Sir:

RE: Geophysical (Radiometric) and Geological  
Survey and Data for Assaying on Mining  
Claims L 579566 et al in the Township  
of Bannockburn

---

The Geophysical (Radiometric) and Geological Survey  
and Data for Assaying assessment work credits as  
shown on the attached statement have been approved  
as of the above date.

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

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: (416) 965-4888

D. Klavig:mc

cc: Manville Canada Inc  
P.O. Box 610  
Matheson, Ontario  
POK 1N0

cc: Resident Geologist  
Kirkland Lake, Ontario

Encl.

November 6, 1984

File: 2.7242

Manville Canada Inc  
P.O. Box 610  
Matheson, Ontario  
POK 1N0

Attention: F.J. Eveleigh

Dear Sir:

RE: Data for Assaying submitted on  
Mining Claims L 579566 to 69  
inclusive and L 579600 in the  
Township of Bannockburn

---

Please provide a receipt or cancelled cheque as verification of the \$123.75 expenditure claimed. This was an oversight of my letter of October 16, 1984 and I apologize for having to write a second time on this matter. I assure you that upon receipt of the above information, assessment of the survey will be done promptly.

When returning the information, please quote file 2.7242.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1M3  
Phone:(416)965-4888

D. Kinvig:mc

cc: Mining Recorder  
Kirkland Lake, Ontario  
File: #412

October 16, 1984

File: 2.7242

Manville Canada Inc  
P.O. Box 610  
Matheson, Ontario  
POK 1N0

Attention: Mr. F.J. Eveleigh

Dear Sir:

RE: Geological survey and Data for Assaying  
submitted on Mining Claims L 579566 et al  
in the Township of Bannockburn

---

Enclosed is the geology plan, in duplicate, for the above-mentioned survey. Please indicate the sample locations and either the sample numbers or assay values on the plans and return them to this office quoting file 2.7242.

For further information, please contact Dennis Kinvig at (416)965-4888.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: (416)965-4888

D. Kinvig:mc

cc: Mining Recorder  
Kirkland Lake, Ontario  
File Nos: 412,413 & 414

Encl.

1984 10 13

Your File:  
Our File# 2.7242

a

Mining Recorder  
Ministry of Natural Resources  
4 Government Road East  
Kirkland Lake, Ontario  
P2H 1A2

Dear Sir:

We received reports and maps on October 1, 1984 for a Geophysical (Radiometric) and Geological and Geochemical Survey submitted under Special Provisions (credit for Performance and Coverage) and data for assaying on Mining Claims L 579566 et al in the Township of Bannockburn.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with you prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1M3  
Phone:(416)965-6918

A. Barr:sc

cc: Manville Canada Inc  
P.O. Box 610  
Matheson, Ontario  
POK 1N0