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REPORT ON GEOLOGICAL AND RADIOMETRIC SURVEYS  
 SYLVANITE GROUP OF CLAIMS  
 DENYES TOWNSHIP  
 PORCUPINE MINING DIVISION  
 PROVINCE OF ONTARIO

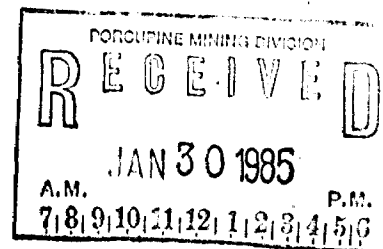
by

F.J. Evelegh

**RECEIVED**

JAN 31 1985

**MINING LANDS SECTION**



Manville Canada Inc.  
Exploration Department

December 3rd, 1984  
Matheson, Ontario.



41015SW0051 2.7751 DENYES

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List of Maps Accompanying this Report:

- Geology and Topographic Plan - Scale 1" = 200'
- Radiometric Survey Plan - Scale 1" = 200'
- Legend Sheet

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REPORT ON GEOLOGICAL AND RADIOMETRIC SURVEYS  
SYLVANITE GROUP OF CLAIMS  
DENYES TOWNSHIP  
PORCUPINE MINING DIVISION  
PROVINCE OF ONTARIO

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Introduction:

The following report describes the geological and radiometric surveys which were completed in November, 1984, on six mining claims recorded in the name of Manville Canada Inc. and located in Denyes Township, Porcupine Mining Division.

Cutting and chaining of grid lines were contracted to Ingamar Exploration of Connaught. A total of 6.0 miles of base, tie and picket lines were established during the course of this work which was carried out in September, 1981.

Geological mapping was started during the field season of 1981 by R.F. Kaltwasser and J. Goodger, Senior Fieldman and Senior Geologist, respectively, with Manville Canada Inc. R. Kaltwasser completed the program in 1984.

Radiometric surveying was conducted by K. Gray, Fieldman and geophysical operator with the Company. A Sharpe's GIS-2 Gamma Ray Integrating Spectrometer was used for this 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 contiguous, are situated in Denyes Township, and are numbered P-609964-65-66-67 and 610802-03. Staking was carried out in early March, 1981 and the claims were recorded on the 20th. Transfer to Johns-Manville Canada Inc. was completed on June 12th, 1981. During mid-1983 the group was transferred to Manville Canada Inc.

These claims comprise approximately 240 acres.

Location and Accessibility:

The property is located in the northwest quarter of the Township and is approximately one and one-half miles southwest of the south end of Denyes Lake.

As there are no roads in the area access is by float or ski-equipped aircraft from bases in Chapleau and Foleyet or by helicopter

Location and Accessibility: (cont'd)

from Timmins. During 1981 Theriault Air Services of Chapleau moved personnel and equipment to the small lake situated to the southwest of Denyes. A helicopter was used for the 1984 program and landings were made on the claims

Topography:

The map area is generally flat-lying, sand-covered and timbered with jackpine, spruce, balsam, birch and poplar. A narrow cedar swamp was noted in the east-central part of the claims.

Overburden is generally shallow and numerous, flat-lying, moss-covered outcrops were mapped on the eastern half of the group. A narrow stream flows in a northerly direction through the eastern part of the property. A small lake is located in the southwest corner of claim 610803.

Previous Work:

During the summer of 1931 George D. Furse made a geological examination of the Swayze area which included the Township of Denyes. The results of this work were published in the Forty-First Annual Report of the Ontario Department of Mines in 1932, being "Geology of the Swayze Area". Map No. 41c on a scale of one inch equals one mile accompanies this report.

In 1934, H.C. Rickaby conducted geological mapping in the area and the results of his work were published in the Forty-Third Annual Report of the Ontario Department of Mines in 1934, being the "Geology of the Swayze Gold Area". Map No. 4313 on a scale of one inch equals one mile accompanies this report.

Map No. 2246G, Rollo Lake Sheet, on a scale of one inch equals one mile - part of the Aeromagnetic Series funded jointly by the Ontario Department of Mines and Geological Survey of Canada - was issued in 1963 and provides good coverage of Denyes Township.

A Preliminary Geological Map of Denyes Township, numbered P.259, on a scale of one inch equals one-quarter mile, was issued in 1964. Mapping was conducted by J.F. Donovan.

Geological Report No. 63, entitled "Geology of the Halcrow-Ridout Lakes Area" compiled by J.F. Donovan, was published by the Ontario Department of Mines in 1968. Map No. 2120, on a scale of one inch equals one-half mile, accompanies this report and covers Denyes Township.

Previous Work: (cont'd)

Map No. 2221, the Chapleau-Foley Sheet of the Geological Compilation Series - on a scale of one inch equals four miles - was issued in 1976 by the Ontario Ministry of Natural Resources. Denyes Township is shown on this map.

Preliminary Map No. P.2294 of the Timmins Data Series was published in 1979 and lists assessment work completed on various claims groups in Denyes Township.

It should be noted that Johns-Manville contracted an aerial magnetometer survey of the entire Swayze area in the early 1950's and the results were plotted on a series of maps on a scale of one inch equals one-quarter mile. Copies of this data are on file in our Matheson office.

The data listed in the following paragraphs was obtained from the files in the Resident Geologist's office at the Ministry of Natural Resources in Timmins.

Erie Canadian Mines apparently optioned the claims from Sylvanite in the 1932 to 1935 period and sampled the showings and drilled five short holes. Copies of the assay plans are on file in Timmins but no data was available on the drilling.

Sylvanite Gold Mines presumably resampled the showings in 1940 and issued assay plans.

In 1964-65 Goldstar Exploration Ltd. carried out geological and magnetometer surveys on claims located immediately to the south of the Sylvanite Group.

Falconbridge Nickel Mines explored the property in 1972 and 1973. During that period a picket line grid was established, outcrops were mapped, the old trenches were cleaned out and resampled. A report on the claims was prepared by J.A. Kelly and trench plans were draughted.

During the field season of 1981 a north-south grid at 400 foot spacing was established on the Sylvanite claims and magnetic and electromagnetic surveys completed. The results of this work were compiled in a report which was submitted to the Ministry of Natural Resources for assessment purposes on March 3rd, 1982.

Preliminary geological mapping, prospecting and sampling of the main gold showing was conducted as part of the 1981 program.

### Line Cutting and Chaining:

A base line was started from the No. 1 Post of claim P-609965 and cut due west to the small lake in the southwest part of the group. Right-angled offset lines were established at 400' intervals along the base line and cut to the north and south to the claim boundaries.

A tie line was established at a distance of 1,320' north of the base line, on line 0+00. This east-west line was used to tie-in the picket lines to permit more accurate plotting of the base map. Note that line 36W was started from the tie line and cut north to the outside boundary and south to the shore of the lake.

Marked pickets were fixed at 100' intervals along all of the grid lines by chainage.

Total miles of base (0.61), tie (0.75) and picket lines (4.62) cut and chained on the property was 6.0.

### General Geology:

The geology of Denyes Township is covered in Geological Report No. 63 being "Geology of the Halcrow-Ridout Lakes Area" compiled by J.F. Donovan and published by the Ontario Department of Mines in 1968. The following "Table of Formations" has been taken from Page 5 of this report.

#### Table of Formations

##### CENOZOIC:

Recent : Stream and swamp deposits.

Pleistocene : Sand, gravel, till.

Unconformity

##### PRECAMBRIAN:

###### Intrusive Rocks

Late Basic Intrusive Rocks:

Diabase

Intrusive Contact

Intermediate to Ultrabasic Intrusive Rocks:

Diorite, gabbro, lamprophyre, serpentinite.

Intrusive Contact

Granitic Rocks:

Granite, syenite, monzonite, quartz-monzonite, granodiorite, quartz diorite, gneissic granite.

Intrusive Contact

## General Geology: (cont'd)

### Intermediate to Basic Volcanic Rocks:

Massive andesite and basalt, pillow andesite and basalt, chlorite-hornblende-feldspar schist, basic tuff, grey massive andesite, volcanic breccia, amphibolite, hornblende-mica-feldspar schist, diorite and gabbro (flows or intrusions), porphyritic andesite and basalt.

Iron formation: Banded iron formation, schistose iron formation.

### Sedimentary Rocks:

Shale, argillite, slate, conglomerate, quartzite, greywacke, arkose, paragneiss, mica-hornblende-plagioclase-quartz schist.

### Acid Volcanic Rocks:

Massive rhyolite, acid tuff, volcanic breccia, sericite-quartz-feldspar schist, banded rhyolite, silicified rhyolite, rhyolite porphyry, feldspar porphyry.

A suite of acidic flows - rhyolite, rhyolite breccia and dacite - striking in a southeasterly direction and dipping 60° to 70° to the northeast, cover the northern part of the property. A broad zone of sericitic schist was noted to the south of the rhyolite.

The southern part of the group is underlain by rusty, carbonated, schistose tuffs intruded by quartz-feldspar porphyry dikes. Quartz-filled fractures, mineralized with pyrite and, reportedly, ? gold values, occur in the tuffs and porphyries.

### Geological Survey:

During the 1981 field season geological mapping and prospecting were carried out on the Sylvanite Group. At that time both grab and chip samples were collected from the main showing. Assay results ranged from nil and trace up to 0.20 ozs of gold and 0.03 ozs of silver over a width of 5.0 feet. Additional geological mapping, prospecting and sampling were conducted during 1984 and the assaying was confirmed.

The results of this work are shown on the accompanying "Geology and Topographic Plan" on a scale of one inch equals 200 feet.

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

Acid volcanics, comprised of rhyolite, flow breccia and tuff, occur in the northeast section of the map area. These rocks strike N70°W, dip 60° to 80° northeasterly and have an approximate thickness of 800 feet. The sequence from rhyolite to breccia to tuff was observed

Geological Survey: (cont'd)

locally over a short distance while traversing in a south to north direction from one outcrop to another.

The acid volcanics weather to a dull grey while colours vary from grey to buff to light green on the fresh surface. These rocks are generally massive, showing little or no shearing, and only slight alteration. Minor pyrite mineralization was observed along a weak shear zone on picket line 4W. An old trench, badly slumped, was mapped at this location.

A broad, concordant band of feldspar and quartz-feldspar porphyry, up to 800 feet in width, was mapped to the south of the rhyolite. These quartz-feldspathic rocks are intensely sheared and altered with several of the exposures showing thin, platy features having a pearly lustre. Alteration appears to be primarily sericitization and saussuritization with minor chloritization and carbonatization.

Altered euhedral feldspars, up to 1/8th of an inch in diameter, were noted in the porphyry with the coarser phenocrysts oriented parallel to the schistosity. Quartz phenocrysts were generally lacking.

The weathered surface is a dull buff to rusty brown except in the intensely sheared and altered sections exhibiting the pearly lustre. Several exposures have a reddish colouration caused by iron content. Narrow, quartz-carbonate filled fractures, mineralized with fine pyrite, were observed in the highly oxidized zones.

A narrow feldspar porphyry intrudes the greywacke along the south boundary of claim P-609965. Feldspar phenocrysts are quite fresh and the surface weathers a deep pink to rose colour. In general, this porphyry is barren of sulphides.

A highly sheared and sericitized quartz-feldspar porphyry intrudes the tuff and greywacke in the showing area on claim P-609965. Small phenocrysts of quartz are aligned parallel to the shearing. Mafic minerals in the matrix have been altered to chlorite. The intrusive is sprinkled with fine pyrite. Weathering is to dull grey or creamy buff with rusty sections due to oxidation of the sulphides. Quartz-carbonate veining, parallel to and at right angles to the general strike, is prevalent. This porphyry also occurs in the extreme southeast corner of the property.



Geological Survey: (cont'd)

A band of sediments, primarily greywacke, striking N70°W and dipping 80° to the northeast, has been mapped in the south-central and southeast sections of claim P-609965. These rocks are schistose, moderately carbonated, fine grained and dark grey in colour. Surface weathering is dull grey to rusty brown. Slatey and pelitic horizons interbanded with 6 inch wide fissile and laminated beds were noted. Quartz-carbonate stringers occur parallel to and cross-cutting the bedding. Crenulations and minor folding were observed on several of the outcrops.

Tuffaceous rocks have been mapped in the northeast corner of the group and are widely scattered over claim P-609965. These rocks strike N60° to 70°W, dip 60° to 80° to the northeast, are moderately to strongly sheared and are mineralized with fine pyrite. Weathering is a dull grey except where discoloured due to oxidized fracture zones.

Shearing and carbonatization have been intense adjacent to quartz-feldspar intrusives and the tuff has been bleached a creamy buff to light grey colour. Considerable coarse pyrite mineralization occurs in quartz-carbonate filled fracture zones along the porphyry contacts. Small drag folds were noted on several of the outcrops.

Narrow bands of basic volcanics, traceable for only short distances along strike, were observed intercalated with the tuff. In this respect, the results of the magnetometer survey show scattered, moderate anomalies - 1,000 to 2,000 gammas above background - occurring to the northwest of the showing area in the overburden-covered section of the property. These magnetic "highs" may indicate the presence of magnetite-rich basaltic volcanics.

Structurally, the major feature in Denyes Township is a doubly plunging syncline which strikes east-west with the axis located approximately 1 1/2 miles to the south of the Sylvanite claims. As reported by J.F. Donovan, the north limb is facing south with a north dip and is, therefore, overturned. The plunge varies from 30° to 50°.

On the Sylvanite claims the formations strike N60° to 70°W, dip 60° to 80° to the northeast and are highly sheared with the schistosity paralleling the general trend. Minor crenulations and small drag folds were noted in the tuffs and greywackes.

### Geological Survey: (cont'd)

A strong, steeply northeasterly striking cross fault has been mapped in the east part of the property on claims P-609964-65. This structure has been indicated by geological mapping, magnetometer surveying and topographic features.

The Sylvanite showing is located in the south-central section of claim P-609965 where a narrow quartz vein - up to 4 feet in width - has been exposed in a series of trenches extending over a strike length of 200 feet. In this section, several highly sheared and altered quartz-feldspar porphyry dikes, conformable with the regional trend, intrude schistose greywacke and tuff. Fractures in all three rock types have been filled with quartz-carbonate veins and stringers.

Veining parallel to the strike is crenulated and offset by small cross faults. Numerous, narrow lenticular veins cut across the strike from one vein to another forming a ladder-like pattern. The contacts of the veins are streaked with fine pyrite. Blebs of chalcopyrite and minor specular haematite were noted in the cross veins. This same porphyry-tuff-greywacke system was mapped in the southeast corner of the property where an old trench had been excavated.

Gold values ranging up to 0.20 ozs over a width of 5.0 feet have been obtained from sampling the Sylvanite showing. Highest values appear to occur in the mineralized, quartz-carbonate veins in the altered tuff, however, this could only be verified by a systematic sampling program.

### Radiometric Survey:

Radiometric surveying was conducted by K. Gray during the early part of November, 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 accompany: Radiometric Plan on a scale of 1" = 200'.

Radiometric Survey: (cont'd)

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 1,455 readings were recorded with the probe held at ground level.

Contour lines have been drawn at 2.0 c.p.s. intervals for total counts ranging from less than 1.0 to 8.0 c.p.s. in an attempt to correlate with changes in overburden and rock type. The plan has been coloured to more sharply define the "highs" and "lows".

Sections of the north-central, southwest and northwest parts of the map area are overlain by spruce-cedar-alder swamp and are characterized by extremely low values - 1.0 c.p.s. for total count with U + TH and TH down to zero values at several stations.

Low sand ridges with scattered flat-lying outcrops of tuff, rhyolite, porphyry and greywacke occur on the two easterly claims. Total counts over the outcrop areas range from 4.0 to 8.0 while counts for U + TH and TH are also well above background climbing to 1.20 and 1.60 respectively. Scattered, local sections of deeper overburden, narrow swamps, etc., have total counts ranging from 4.0 down to 0.8.

Boulder trains were observed in the northeastern part of the group where a reading over a sizeable block of granite gave counts of 20.0 - 2.0 - 3.0. A similar type reading of 15.0 - 1.2 - 1.0 c.p.s. was recorded over a boulder on line 8W at 370' south of the base line.

It is interesting to note that the total counts over the Sylvanite showing, between picket lines 4W and 12W on claim P-609965, range from 5.0 to 8.0 c.p.s. - definitely anomalous. These high counts may be caused by the feldspars in the porphyry intrusive.

The western part of the property is covered by low sand ridges timbered with jackpine and some poplar trees. No bedrock exposures or boulder trains were observed in this area. The results of the radiometric survey over this section are markedly similar to those obtained over the two easterly claims with Total - U + TH - TH counts per second being well above background. This would appear to indicate the presence of lightly-buried bedrock along the west side of a steeply northeasterly trending swampy section.


Conclusions and Recommendations:

The results of the geological survey completed on the property show sheared and altered porphyry intruding tuff and greywacke in the south-central section of claim P-609965. The Sylvanite quartz vein occurs along the porphyry contact and has been sampled, intermittently, over a strike length of 200 feet. Assays ranged up to 0.20 ozs of gold over a width of 5.0 feet. All three rock types have been fractured and the quartz-carbonate fillings mineralized with coarse pyrite, minor chalcopyrite and scattered gold mineralization.










Radiometric surveying outlined an anomaly over the Sylvanite zone having total counts up to 7 x background. This survey also indicated that overburden conditions in the western portion of the group may be shallow.

It is recommended that the Sylvanite showing be mapped in detail, systematically sampled and assayed for gold mineralization. Depending upon the results obtained from this work diamond drilling should be carried out to further explore the zone on claim P-609965 and along strike to the northwest.






Submitted: December 3rd, 1984

  
by: F.J. Evelegh  
Exploration Manager










## GEOLOGICAL LEGEND

-  Quartz diorite, diabase, diabase.
-  Granite 5a, Syenite 5b, Feldspar porphyry 5c, Quartz feldspar 5d, Felsite 5e, Lamprophyre 5f.
-  Diorite 4a, Gabbro diabase 4b, Breccia 4e, Peridotite & Dunite (Serpentinized) (Asb. - Asbestos recognized)
-  Pyroxenite 4d.
-  Rhyolite, fragmental lava, tuff 3a
-  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

## 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 - Dip of Schistosity

## ELECTRO-MAG SYMBOLS



### SEONICS 15 UNIT

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


### SEONICS 15 UNIT

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

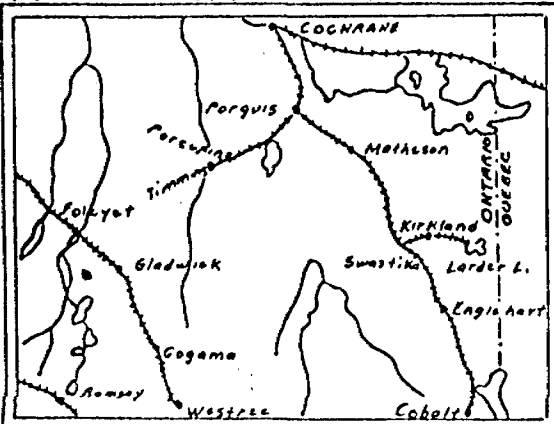
### RONKA H.L. UNIT

-  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

LOCATION SKETCH - 1" = 50 Miles



LEGEND SHEET  
PROVINCE OF ONTARIO



#533

Mini

Type of Survey(s) <b>Geological and Radiometric</b>		Township or Area <b>Denyes</b>	
Claim Holder(s) <b>Manville Canada Inc.</b>		Prospector's Licence No. <b>T-1330</b>	
Address <b>P.O. Box 610, Matheson, Ontario POK 1N0</b>			
Survey Company <b>same as above</b>		Date of Survey (from & to) Day   Mo.   Yr.   Day   Mo.   Yr. <b>1 9 81   3 12 84</b>	Total Miles of line Cut <b>6.0</b>
Name and Address of Author (or Geo-Technical report) <b>F.J. Evelegh, Box 610 Matheson, Ontario POK 1N0</b>			

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

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

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

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

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	609964				
	609965				
	609966				
	609967				
	610802				
	610803				

**RECEIVED**  
**DEC 19 1984**  
**MINING LANDS SECTION**

**RECORDED**  
**DEC 17 1984**  
Receipt No. *cf*

Expenditures (excludes **PROSPECTING DIVISION**)

Type of Work Performed

Performed on Claim(s)

**RECEIVED**  
**DEC 11 1984**  
A.M. | P.M.  
7|8|9|10|11|12 | 1|2|3|4|5|6

Calculation of Expenditure Days Credits

Total Expenditures \$  ÷ 15 =

Total Days Credits

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

Date **Dec 7/84**

Recorder Holder or Agent (Signature) *F.J. Evelegh*

For Office Use Only

Total Days Cr. Recorded **240**

Date Recorded **Dec 11/84**

Date Approved as Recorded **See Reversed Statement**

Mining Recorder *[Signature]*

Branch Recorder *[Signature]*

Total number of mining claims covered by this report of work. **6**

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying  
**F.J. Evelegh**  
**Box 610 Matheson, Ontario POK 1N0**

Date Certified **Dec 7/84**

Certified by (Signature) *F.J. Evelegh*



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 and Radiometric  
Township or Area Denyes  
Claim Holder(s) Manville Canada Inc.  
P.O.Box 610, Matheson, Ont POK 1N0  
Survey Company same as above  
Author of Report F.J. Evelegh  
Address of Author Box 610, Matheson, Ont. POK 1N0  
Covering Dates of Survey Sept 1/81 to Dec 3/84  
(linecutting to office)  
Total Miles of Line Cut 6.0

MINING CLAIMS TRAVERSED  
List numerically

P	609964
(prefix)	(number)
	609965
	609966
	609967
	610802
	610803

RECEIVED

JAN 31 1985

MINING LANDS SECTION

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

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

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

DATE: Dec 7, 1984 SIGNATURE: [Signature]  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 63.1067

Previous Surveys	File No.	Type	Date	Claim Holder

RECEIVED  
JAN 30 1985  
A.M.  
7:18:00

TOTAL CLAIMS 6

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 485 Number of Readings 1,455
Station interval 50' Line spacing 400'
Profile scale --
Contour interval 2,0 c.p.s.

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 Sharpe's 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 1.0 - 0.1 - 0.1

Size of detector 2" x 2" sodium iodide crystal

Overburden sand, loam, clay, boulders, 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 \_\_\_\_\_

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Number of Samples \_\_\_\_\_

Type of Sample \_\_\_\_\_  
(Nature of Material)

Average Sample Weight \_\_\_\_\_

Method of Collection \_\_\_\_\_  
\_\_\_\_\_

Soil Horizon Sampled \_\_\_\_\_

Horizon Development \_\_\_\_\_

Sample Depth \_\_\_\_\_

Terrain \_\_\_\_\_  
\_\_\_\_\_

Drainage Development \_\_\_\_\_

Estimated Range of Overburden Thickness \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

General \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ANALYTICAL METHODS

Values expressed in: per cent   
p. p. m.   
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others \_\_\_\_\_

Field Analysis (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Field Laboratory Analysis

No. (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Commercial Laboratory (\_\_\_\_\_ tests)

Name of Laboratory \_\_\_\_\_

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

General \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Mining Lands Section

File No 27751

Control Sheet

TYPE OF SURVEY     GEOPHYSICAL  
                           GEOLOGICAL  
                           GEOCHEMICAL  
                           EXPENDITURE

MINING LANDS COMMENTS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ *L.S.* \_\_\_\_\_

*L. Hurst*  
\_\_\_\_\_  
Signature of Assessor

*85-01-31*  
\_\_\_\_\_  
Date

1985 03 11

Your File: 533/84  
Our File: 2.7751

Mining Recorder  
Ministry of Natural Resources  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Sir:

RE: Notice of Intent dated February 13, 1985  
Geophysical (Radiometric) and Geological  
Survey on Mining Claims P 609964, et. al.,  
in Denyes Township

---

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

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

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

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

S. Hurst:mc

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

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

Encl.



Ministry of  
Natural  
Resources

*Feb. 28/85*

1985 02 13

Your File: 533/84  
Our File: 2.7751

Mining Recorder  
Ministry of Natural Resources  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3

*R*  
S. Hurst:mc

Encls.

cc: Manville Canada Inc  
P.O. Box 610  
Matheson, Ontario  
POK 1N0  
Attention: F.J. Evelegh  
cc: Mr. G.H. Ferguson  
Mining & Lands Commissioner  
Toronto, Ontario



Ministry of  
Natural  
Resources

Notice of Intent  
for Technical Reports

1985 02 13

2.7751/4533/84

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

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

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic _____ days Magnetometer _____ days Radiometric <u>20</u> days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological <u>20</u> 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.	P 609964 to 967 inclusive 610802

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

<u>15 DAYS RADIOMETRIC</u> <u>15 DAYS GEOLOGY</u>  P 610803
--

**No credits have been allowed for the following mining claims**

<input type="checkbox"/> not sufficiently covered by the survey	<input type="checkbox"/> 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:

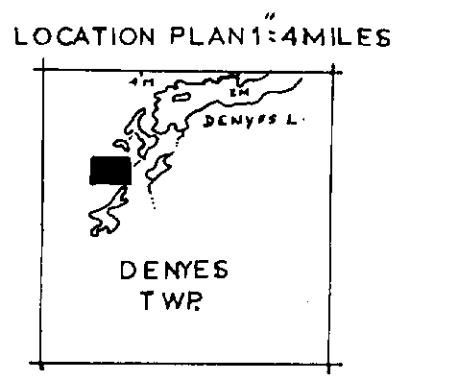
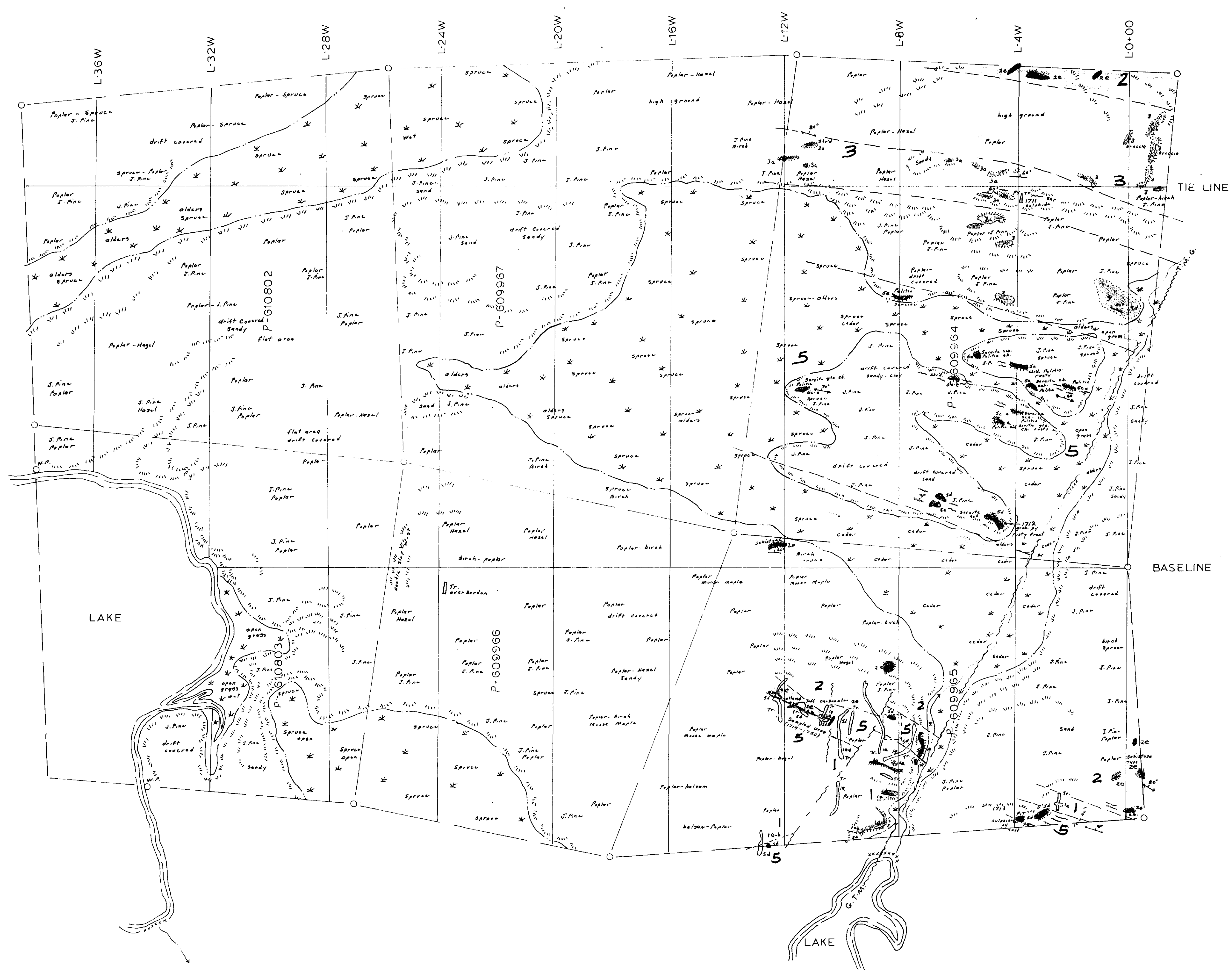
R GL.

2-775-1

609964	✓	✓																	
65	✓	✓																	
66	✓	✓																	
67	✓	✓																	
610802	✓	✓																	
3	'4	'4																	

*[Handwritten signature]*

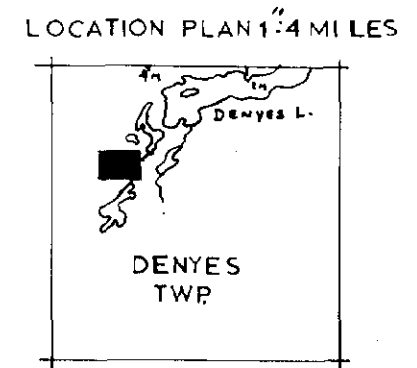
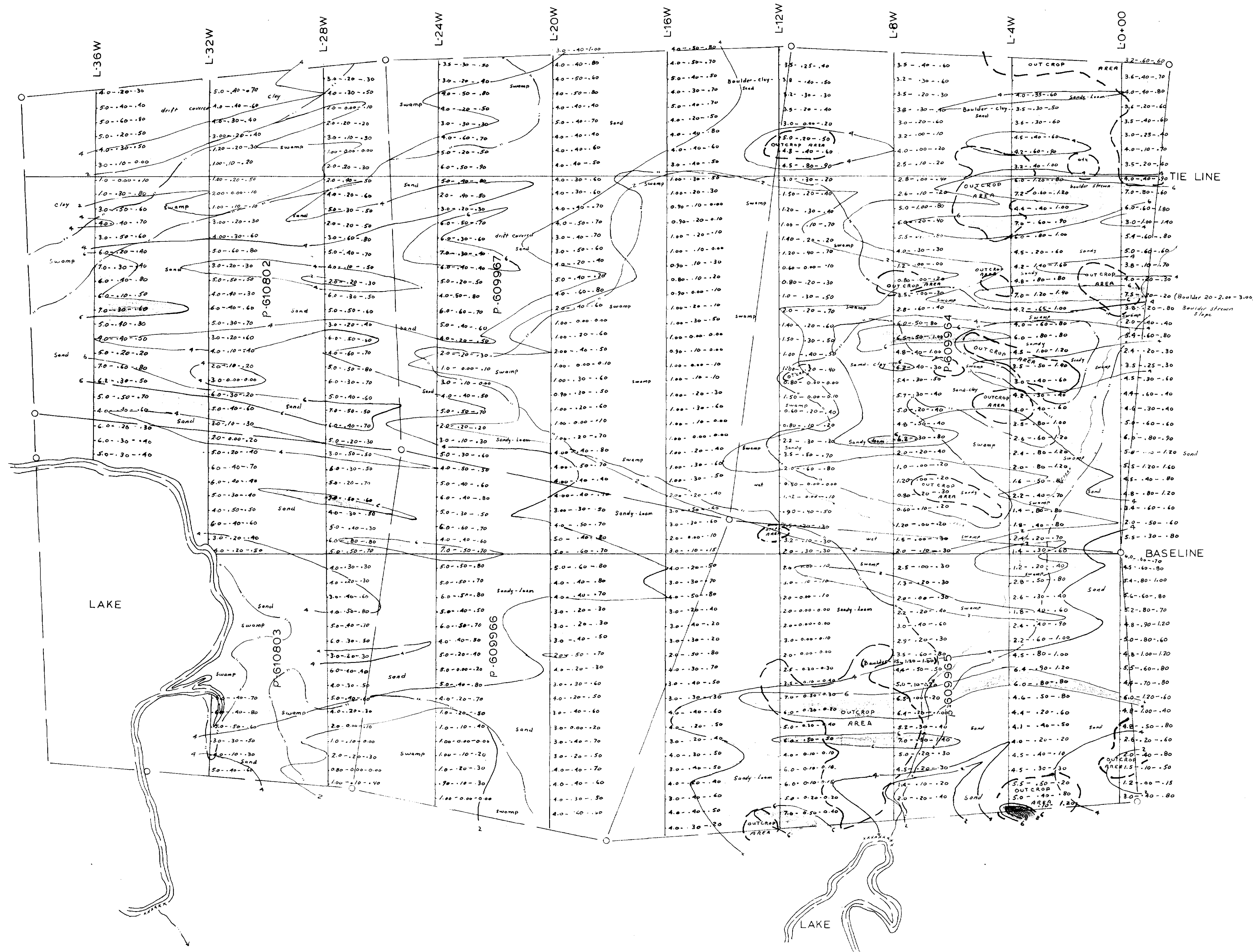




27751



200



27751

RADIOMETRIC SURVEY PLAN

READINGS IN C.P.S.		
TOTAL	U-TH	TH
1.00	0.20	0.40

INST.-G15-2 SHARPE, SERIAL NO:710123

OPERATOR K. GRAY

DEC 03 1984

ONT. 1"=200'

MANVILLE CANADA INC.

SYLVANITE GR. DENYES TWP.



7  
210