

REPORT ON GEOLOGICAL AND RADIOMETRIC SURVEYS

BLANCHETTE GROUPS NO's. 1 and 2

SHERATON, TIMMINS AND EGAN TOWNSHIPS

PORCUPINE AND LARDER LAKE MINING DIVISIONS

PROVINCE OF ONTARIO.

by

F.J. Evelegh

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MINING LANDS SECTION

Manville Canada Inc. Exploration Department

September 26th, 1984 Matheson, Ontario.



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## List of Maps Accompanying this Report:

Geology - Topographic Plans and Radiometric Survey Plans for the Blanchette and Blanchette Northeast Extension Groups of claims - all on a scale of l'' = 200.

Legend Sheet

REPORT ON GEOLOGICAL AND RADIOMETRIC SURVEYS
BLANCHETTE GROUPS NO's. 1 and 2
SHERATON, TIMMINS AND EGAN TOWNSHIPS
PORCUPINE AND LARDER LAKE MINING DIVISIONS
PROVINCE OF ONTARIO.

## Introduction:

The following report describes the geological and radiometric surveys which were conducted during August, 1984, on ten mining claims recorded in the name of Manville Canada Inc. and located in Sheraton, Timmins and Egan Townships, Porcupine and Larder Lake Mining Divisions.

Geological mapping was carried out by R.F. Kaltwasser, Senior Fieldman with the Company, and the writer, assisted by D. Brideau, Junior Fieldman, who stripped the moss from outcrops and traversed overburden-covered areas.

Radiometric surveying was carried out by K. Gray, Fieldman and geophysical operator, assisted by B. Haley, student. A Sharpe's GIS-2 Gamma Ray Integrating Spectrometer was used for this work. The grids established in 1981 and 1982 for the magnetic and electromagnetic surveys were used for the radiometric program.

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:

Blanchette Group No. 1 is comprised of seven claims and has a total acreage of approximately 280. Claims numbered P-579570-71-82 and P-618186 are situated in Timmins Township; claims P-579581 and P-579604-05 are in Sheraton Township. Six of the group were staked in early December, 1980 and recorded on the 12th. Claim P-618186 was staked on May 21st, 1981 and recorded on June 2nd. All claims were then transferred to Johns-Manville Canada Inc.

Blanchette Group No. 2 is comprised of three claims and has a total acreage of approximately 120. Claim P-636127 is located in Sheraton Township; claims L-636128 and 29 are in Egan Township. The claims were staked during the latter part of March, were recorded on April 1st, 1982 and were then transferred to Johns-Manville Canada Inc.

During mid-1983 the claims of both groups were transferred to Manville Canada Inc.

Note that both groups are contiguous.

## Location and Accessibility:

The claims of Group No. 1 are situated along the east-west boundary between Sheraton and Timmins Townships with three located in the extreme southeast corner of the former and four in the northeast corner of the latter Township. The claims of Group No. 2 are situated along the common boundary between Sheraton and Egan Townships, immediately to the north of the Timmins Township line.

Note that Egan Township is located in the Larder Lake Mining Division; Sheraton and Timmins Townships are in Porcupine.

Access is provided by a gravel road (Gibson Lake) which branches off to the south from Highway No. 101 approximately eighteen miles west of Matheson. This secondary road leads to Lipsett Lake, a distance of about seventeen miles from the highway. The property is located four miles north of Lipsett Lake and is reached by a sand road.

The Egan Township claims are reached by an old logging road, grown over and now suitable only as a walking trail which branches off to the east from the sand road. Distance is approximately one mile. Topography:

Generally low and swampy terrain with several northwesterly trending sand and outcrop ridges, which reach heights up to 50 feet above the elevations of the creeks, characterizes the claims of Group No. 1. Low-lying sections are timbered with alders, black spruce and balsam; the ridges with jackpine, birch and poplar. The extreme western part is sand-covered and forms a northerly trending esker having occasional low outcrops.

The claims of Group No. 2 are generally heavily drift-covered and swampy. Most of the area has been cut over during recent years. Outcrops of diabase and volcanics occur along a high, northerly-trending ridge in the east part of the claims. Low-lying exposures of bedrock were noted in the west part of claim L-636128.

Drainage throughout the property is poor and sluggish with a few narrow, run-off streams flowing into Kasba Creek.

### Previous Work:

In 1911, the Ontario Bureau of Mines published a report with accompanying maps, compiled by A.G. Burrows, entitled "The Porcupine Gold Area". This was the Twentieth Annual Report, Part II.

The Twenty-third Annual Report, Part III, of the Ontario Dept. of Mines was published in 1924 and contained a section and map covering

Provious Work: (cont'd)

e Night Hawk Lake Gold Area" as compiled by P.E. Hopkins.

In 1942 the Ontario Dept. of Mines published a report and map, compiled by L.G. Berry entitled "Geology of the Langmuir-Sheraton Area". This was the Forty-ninth Annual Report, Part IV.

More recently, 1971, Geological Report 96, entitled "Geology of the Night Hawk Lake Area, District of Cochrane", as compiled by E.J. Leahy was published by the O.D.M. Map No. 2222 accompanies this report.

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

Sheraton Township is also shown on Ontario Geological Survey Preliminary Map P.2074 of the Timmins Data Series, issued in 1980.

Aeromagnetic Maps on scales of one inch equals four miles and one-half mile have been published jointly by the O.D.M. - G.S.C.

During May of 1984 maps covering airborne electromagnetic and total intensity magnetic surveys were issued jointly by the Ministries of Natural Resources and Northern Affairs. Sheraton and Egan Townships are shown on Maps No's. 80602 and 80603 on a scale of 1:20000.

All of the previously-listed reports and maps are on file in the Company library and have been used extensively during our exploration work in the Night Hawk Lake Area.

The following data on the Blanchette claims was obtained from the Resident Geologist's office at the Ministry of Natural Resources in Timmins -

- 1) Geological Report and Map for Blanchette Porcupine Gold Mines Ltd. undated.
- 2) Larouche and Morin Group Magnetic, Electromagnetic and Geological Plans dated 1977.

During the early summer of 1981 power stripping, gasolenepowered plugger work and manual labour were used to explore gold showings
on the claims of Blanchette Group No. 1. A picket line grid was established later in the year and magnetic and electromagnetic surveys were
completed. The results of this work were compiled in a report which was
submitted to the Ministry of Natural Resources for assessment purposes
in November, 1981. Note that additional limited plugger work was carried

## Previous Work: (cont'd)

on these claims in December, 1982 and May, 1983.

Establishment of a picket line grid, followed by magnetic and electromagnetic surveys, was completed during December, 1982 on the claims of Blanchette Group No. 2. The results of this work were compiled in a report which was submitted to the Ministry for assessment purposes in March, 1983.

During the field seasons of 1981 and 1982 reconnaissance-type geological mapping, prospecting and grab sampling were carried out on the claims of both groups.

## Line Cutting and Chaining:

On the claims of Group No. 1 base line No. 1 was started from the steel pin at the No. 1 post of claim P-579582 on the Sheraton-Timmins Townships boundary and cut east and west to the outside claim corners. Right-angled offset lines, spaced at 400' intervals, were cut and chained to the north and south of this base line to cover the claims.

Base line No. 2 was started from the No. 1 post of claim P-618186 (being 1265' south of base line No. 1 on Line 0+00) and cut to the east for a length of 2,550 feet. Right-angled offset lines, spaced at 400' intervals, were cut and chained to the south of this base line to the claim boundary.

Marked pickets were established every 100' along all offset and base lines by chainage.

Note that the ends of the picket lines were tied in by chaining along the north and south claim boundaries to increase the accuracy of the grid.

Total miles of base (1.2) and picket lines (6.1) cut and chained on the claims of Blanchette Group No. 1 was 7.3.

As picket lines, heavily overgrown, had previously been established on the two claims in Egan Township these were brushed out, rechained and used for the geophysical surveys on the Blanchette Group No. 2 block, The base line (No. 1) was also re-established and chaining commenced from this base line for the picket lines from 0+00 to 10+00E. Lines 2+00W and 4+00W were chained from the Sheraton-Egan Townships boundary. Bearing of the base line is \$70°E with the right-angled picket lines bearing N20°E and spaced at 200' intervals. The ends of the picket lines were tied-in by chaining along the north and east claim boundaries.

Line Cutting and Chaining: (cont'd)

The No. 2 base line was started from a point 2640' north of the steel pin located at the south end of the boundary between Sheraton and Egan Townships. This base line was cut to the west for a length of 1320' and right-angled offset lines were established at 300' intervals and cut to the south to cover claim P-636127.

Note that marked pickets were established at 100' intervals along all base and picket lines.

Total miles of base (0.50) and picket lines (4.25) cut and chained during the course of this work was 4.75.

## General Geology:

The following "Table of Formations" has been taken from Page 7 of the Report on the Geology of the Night Hawk Lake area compiled by E.J. Leahy: -

## Table of Formations

## Cenozoic:

Recent Lake, stream, and swamp deposits Pleistocene: Till, sand and gravel, varved clay

## Unconformity

### PRECAMBRIAN:

### Proterozoic:

Younger Mafic Intrusive Rocks (Keweenawan?)
Diabase

Intrusive Contact

Mafic Intrusive Rocks (Matachewan?)
Diabase, porphyritic diabase.

Intrusive Contact

### Archean:

Extremely Altered Rocks

Chlorite-carbonate schist, talc-chlorite-carbonate schist, chlorite-sericite-quartz schist, serpentine schist, carbonate rock.

Gradational and Fault Contacts

Felsic Intrusive Rocks

Biotite granite, quartz-feldspar prophyry, feldspar porphyry, syenitic, aplitic, and felsitic dikes.

Intrusive Contact

Younger Sedimentary Rocks

Greywacke, conglomerate, argillite, slate

Unconformable Contact

## General Geology: (cont'd)

Mafic and Ultramafic Intrusive Rocks

Serpentinized peridotite and dunite, diorite, carbonatized ultramafic rocks

Intrusive Contact

Metasediments and Tuffaceous Metasediments
Graphitic metasediments, argillite, slate,
greywacke, conglomerate, tuffaceous rocks.

Facies Change and Interfingering Contact

Intermediate to Felsic Metavolcanics
Rhyolite, rhyodacitic rocks, agglomerate, tuff, iron formation.

Conformable and Interfingering Contact

Mafic to Intermediate Metavolcanics

Massive and pillowed lava flows, spherulitic and amygdaloidal lavas, porphyritic lavas, volcanic breccia, tuffs and agglomerate, iron formation.

Rocks within the map area include intermediate to mafic meta-volcanics - now altered mainly to chloritic schists - a sizeable body of coarse grained, magnetite-rich gabbro, northerly to northwesterly trending diabase dikes and scattered narrow quartz and feldspar porphyry dikes. These porphyries strike in a general northeasterly direction, are mineralized with pyrite, and occasionally have interesting gold values.

## Geological Survey:

Detailed geological mapping, prospecting and sampling of mineralized porphyry and quartz-filled fracture zones were carried out during the 1984 field season. This work was a continuation of the reconnaissance-type programs conducted in 1981-82.

The results of these surveys are shown on the accompanying Geologic and Topographic Plans of the Blanchette and Blanchette Northeast Extension Groups on a scale of one inch equals 200 feet.

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

The Precambrian (Keewatin) intermediate to basic metavolcanics - andesites and basalts - have strikes ranging from slightly north of east in the southern part of the map area to northwesterly in the northern section. Dips vary from 70° to the northwest to 75° to the southwest respectively. These variations, in strike and dip, are due to the pronounced drag folding and shearing observed on all of the outcrops

Galogical Survey: (cont'd)

of volcanics in the southern and central parts of the property where the rocks have been altered to chlorite and talc-carbonate schists. The regional trend of the formations appears to be northwesterly with near vertical dips.

On claim L-636129 the massive, brittle basaltic flows have poorly developed pillow structures and show weak to moderate hornblende and chlorite alteration. Magnetite was observed in several outcrops in the extreme portheastern part of the claim.

Several outcrops of a gabbroic intrusive have been mapped on claims P-579571 and 579582. This rock type has a rusty, mottled appearance on the weathered surface and is dark green to black when broken open. The gabbro is extremely coarse grained with radiating (sunbursts) crystals of hornblende - up to 25 mm in length - observed along the contact with the diabase. This rock is comprised of hornblende, plagioclase feldspar, widely scattered blue quartz "eyes", coarse magnetite and locally has pyrite and occasionally chalcopyrite mineralization along fracture planes. Contacts with the other formations (talc - chlorite schists and diabase dikes) are sharp but very irregular. Deep embayments of the basic metavolcanics were mapped on claims P-579581 and 579582.

This intrusive, which has been outlined by both aerial and ground magnetometer surveys, strikes in a general northwesterly direction (conformable with the regional trend) and has a maximum width of 1,800 feet in the west-central part of the property. A small magnetic anomaly of similar intensity has been delineated on claim L-636128. The approximate contacts of these intrusives are shown in dashed red pencil lines on the accompanying geology maps.

Several narrow quartz and feldspar porphyry dikes intrude the metavolcanics and gabbro on the Blanchette claims. The feldspar porphyry dikes in the northeast and southwest corners of claim P-579605 are cut by quartz-filled fractures and are mineralized with pyrite. A similar dike was mapped on the east boundary of claim P-579582 and occurs in a drag-folded section of the chloritic schists. This dike is sprinkled with fine, cubic pyrite and is weakly sheared. An oxidized zone mineralized with pyrite and galena was observed along the east contact of the porphyry.

Geological Survey: (cont'd)

Syenite porphyry dikes which have a fresh appearance and are a deep red in colour were mapped on the claims of the Northeast Extension Group.

Several northerly to steeply northwesterly trending Matachewan diabase dikes, ranging in width from a few feet to over 400, occur on the property. These dikes form low north-south ridges in Timmins Township and a high hill along the east boundary of the claims in Egan. Contacts with the metavolcanics and gabbro are sharp. Minor pyrite mineralization was noted at several locations along the fringes of the dikes.

Ground magnetometer surveying has delineated these intrusives which stand out sharply in the talc-chlorite schists, however, they are completely masked in the highly anomalous gabbro.

Structurally, the Blanchette claims groups are located approximately 14 miles south of the southwesterly striking Destor-Porcupine fault and immediately to the east of a strong northwesterly trending lineament which parallels the Montreal River fault. A few minor faults and shears displacing diabase dikes, and, in places characterized by gossan zones, were mapped over short distances on the property. The northerly striking diabase dikes which occur in some profusion throughout the map area have been intruded along fault structures. The schists are complexly folded and crumpled but due to the paucity of outcrops few details could be determined.

Economically, interesting gold values have been obtained from grab and chip sampling of quartz-filled fracture zones mineralized with fine cubic pyrite, in feldspar porphyry dikes. These zones have been drilled and blasted at several sites on the Blanchette claims. Values ranging up to 0.49 ozs were obtained from a trench in the northeast corner of claim P-579605 and up to 0.39 ozs from a showing along the east boundary of claim P-579582. The mineralization occurs over narrow widths and could only be traced for a few feet along strike due to the overburden conditions. Only low gold values were obtained from sampling other porphyry dikes on the property.

## Radiometric Survey:

Radiometric surveying was conducted by K. Gray during the period August 9th to 17th, 1984. A Sharpe's GIS-2 Gamma Ray Integrating Spectrometer (Serial No. 710123) was used for this work.

## Radiometric Survey: (cont'd)

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 3,378 readings was recorded with the probe at ground level.

Contour lines have been drawn around readings having total counts of 15.0, 10.0 and 5.0 c.p.s. in an attempt to correlate with changes in overburden and rock types.

The results of the radiometric survey show total counts over the low swampy sections of the property to range from 4.0 to 8.0 c.p.s. The U + Th and Th are both lower than 1.0 c.p.s.

Over the outcrop areas, mainly diabase, there is a large increase over background with total counts varying from 9.0 to 19.0 c.p.s. The U + Th are generally higher than 2.0 and 1.5 c.p.s. respectively. The maximum count of 19.0 - 5.0 - 4.0 was recorded over an outcrop of Matachewan diabase in the northeast corner of claim P-579582. A series of moderate to high counts was recorded along picket line 8+00W over a northerly striking diabase dike.

Sand ridges, which have a general north-south trend, were slightly lower than the outcrop areas. Total counts range from 7.0 to 10.0 while U + Th and Th were each slightly above 1.0 c.p.s. These moderate values are probably due to shallow overburden or the mineral composition of the sand.

## Conclusions and Recommendations:

The results of the exploration programs completed to date, which include establishment of picket line grids, magnetic, electromagnetic, geologic and magnetic surveying, power stripping, prospecting, rock trenching, sampling and assaying, show interesting gold values occurring in quartz-filled fracture zones in feldspar porphyry dikes

Conclusions and Recommendations: (cont'd)

two localities on the property. Assays from chip and grab sampling ranged from 0.005 to 0.49 ozs of gold over narrow widths.

Magnetometer surveying outlined two prominent anomalies interpreted as being underlain by a coarse-grained magnetic-rich gabbroic intrusive weakly mineralized with pyrite and occasionally chalcopyrite.

The results of the electromagnetic and radiometric surveys were negative.

It is therefore recommended that additional claims be acquired, either by staking or optioning, and diamond drilling be carried out to further explore the two main gold showings. The gabbro intrusive should be sampled and assayed for precious metals. In this respect a program of geochemical soil sampling may be warranted.

Submitted: September 26th, 1984

by: F.J. Evelegh

Exploration Manager

## SPECIFICATIONS OF FLUXGATE MAGNETOMETER MODEL MF-1

Weights:

Ranges: Plus or minus ---1,000 gammas f. sc. 3.000 10,000 30,000 100,000 Sensitivity 20 gammas/div. 50 200 500 2,000 Meter: Taut-band suspension 1000 gammas scale 1%" long — 50 div. 3000 gammas scale 1 11/16" long — 60 div. 1000 to 10,000 gamma ranges  $\pm$  0.5% of full scale Accuracy: 30,000 and 100,0000 gamma ranges  $\pm$  1% of full scale -40°C to +40°C **Operating Temperature:**  $-40^{\circ}$ F to  $+100^{\circ}$ F Temperature Stability: Less than 2 gammas per °C (1 gamma /°F) Total 1 gamma P-P Noise Level: Long Term Stability: + 1 gamma for 24 hours at constant temperature 10,000 to 75,000 gammas by 9 steps of approximately 8,000 gammas and fine control by 10 turn potentiometer. Convertible for southern hemisphere or  $\pm$  30,000 gammas equatorial. **Bucking Adjustments:** (Latitude) 1.7 ma per oersted for 1000 to 100,000 gamma ranges with **Recording Output:** maximum termination of 15,000 ohms. Response: DC to 5 cps (3db down) Connector: Amphenol 91-MC3F1 **Batteries:** 12 x 1.5V-flashlight batteries "C" cell type) (AC Power supply available). Consumption: 50 milliamperes Instrument — 6½" x 3½" x 12½" 165 x 90 x 320 mm **Dimensions:** Battery pack — 4" x 2" x 7" 100 x 50 x 180 mm

Shipping Container — 10" dia x 16"

Instrument — 5 lbs. 12 oz.

Battery Pack — 2 lbs. 4 oz.

Shipping — 13 lbs.



254 mm dia. x 410 mm

2.6 kg.

1.0 kg.

6.0 kg.





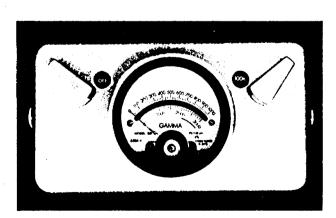
## FLUXGATE MAGNETOMETER

The MF-1 Fluxgate Magnetometers and their extended sensitivity series, the MF-1-100's are designed primarily for the oil and mineral exploration industries. They incorporate advanced transistorized circuitry and extensive temperature compensation with light weight and a self-levelling mechanism. Although the basic MF-1 and MF-1-100 are intended primarily for accurate ground surveys in the mining industry, modifications are available for base station recording, for vertical gradient measurements, for measuring susceptibilities, determining remanence of rock samples and for storm monitoring on aeromagnetic surveys.

MF-1 SERIES

(a) MF-1

The MF-1 Fluxgate Magnetometer is a vertical component magnetometer designed for accurate ground surveys in



the mining industry. Advanced transistorized circuitry and extensive temperature compensation is the core of its accuracy, comparable to precision tripod mounted Schmidt type magnetometers. It is a hand held instrument and needs only coarse levelling and no orientation. Features such as direct reading of gamma values and the possibility of accurate zero settings at base stations ensure simplicity of operation and high field economy. The readability is 5 gammas on the 1000 gamma range.

### (b) MF-1-G

The MF-1-G Fluxgate Magnetometer has the same electronics and specifications as the MF-1. The difference lies in that the sensor is detached and enclosed in a small cylindrical tube thus permitting the sensor (geoprobe) to be oriented and tilted in any desired direction. Since a 25 foot connecting cable joins the sensor to the instrument housing, the geoprobe may be placed away from local spurious magnetic disturbances in the vicinity of the electronics housing. Thus this magnetometer may be used for the study of the magnetic properties of rocks, remanence etc.

### (c) MF-1-GS

The MF-1-GS Magnetometer again has the same electronics and specifications as the MF-1 but has two sensors, the attached self-levelling sensor of the MF-1 as well as the detached geoprobe of the MF-1-G. Thus this magnetometer may be employed on rapid ground magnetometer surveys and also used for vertical gradient measurements and to measure the magnetic properties of rocks.

## Report of Work

(Geophysical, Geological, Geochemical and Expenditures)



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## **Ministry of Natural Resources**

## 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.

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Survey Com	•			(prefix) (number)
Author of R	•			57957 <b>1</b>
Address of A				<b>-</b> 579581
Covering Date	tes of Surv	ey <u>Aug</u>	9th to Sept 26th/84 (linecutting to office)	
Total Miles of				579582
		-		579604
SPECIAL	PROVISIO	NS	DAY8	579605
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AIRBORNE	CREDITS	(Special provi	sion credits do not apply to airborne surveys)	
		-	neticRadiometric	
			lays per claim)	
DATE: De	c 5/84	SIGNA	ATURE: Toplet	
			Author of Report or Agent	
<b>5</b> 0.1		0 "	fications <u>63 1067</u>	RECEIVED
Res. Geol		Quaiii	ications	-
File No.	veys Type	Date	Claim Holder	DEC 0 7 1984
	~7F*			☐ MINIAIO
		•••••••••	•••••••••••••••••••••••••••••••••••••••	MINING LANDS SECTION
		,		.
			••••••••••••••••••••••••	.
				·
				.   ]
			•••••	TOTAL CLAIMS 10

## GEOPHYSICAL TECHNICAL DATA

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

N	lumber of Stations	1,126	Number of	Readings	3.378					
		50'		Ŭ						
	rofile scale		zmo spaoni	•						
		5.0 c.p.s.								
. 4	Instrument									
MAGNETIC	Accuracy - Scale cons	stant			· · · · · · · · · · · · · · · · · · ·					
ij	Diurnal correction met	thod			-					
MA	Base Station check-in i	interval (hours)		<del> </del>						
•	Base Station location a	and value								
			·							
ELECTROMAGNETIC	Coil configuration									
AG	•									
OM	Accuracy									
I.R	Method:	☐ Fixed transmitter	Shoot back	☐ In line	Parallel line					
TE	Frequency(specify V.L.F. station)									
띠	Parameters measured									
	Instrument	and a contract to								
	Scale constant									
VITY	Corrections made									
AV	And the second s									
GRA	Base station value and	location			· · · · · · · · · · · · · · · · · · ·					
	Elevation accuracy									
	Instrument	<u> </u>								
	Method			quency Domain						
	Parameters - On time		Free	quency						
	<ul><li>Off time</li></ul>		Ran	ige						
IXI	– Delay tir	ne								
RESISTIVITY	— Integrati	on time								
RES	Power									
<b>-</b>	•									
	Electrode spacing									
	Tune of electrode									

INDUCED POLARIZATION

SELF POTENTIAL		
Instrument		Range
Survey Method		
Corrections made		
2113ti dilicit		y Integrating Spectrometer
Values measuredTota	l- Uranium +Thorium	n - Thorium, in counts per second
Energy windows (levels).	0.30 1.7	2.5 MeV
Height of instrument	ground level	Background Count 4.0 - 0.1 - 0.1
Size of detector	2" x 2" sodium îodi	de crystal
Overburden	sand, boulders, til	
	(type, depth – i	nclude outcrop map)
Instrument		
Parameters measured		
Additional information (	for understanding results)	
• •		
	(specify for each	
Accuracy	(specify for each	a type of survey)
	(specity for each	
		Line Spacing
		Over claims only

## GEOCHEMICAL SURVEY - PROCEDURE RECORD

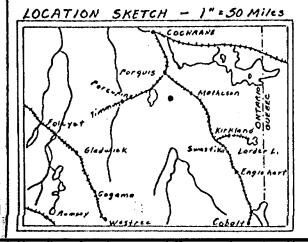
Numbers of claims from which samples taken	
Total Number of Samples	ANALYTICAL METHODS
Type of Sample (Nature of Material)  Average Sample Weight (Nature of Material)	n.n.m. II
Method of Collection	
Soil Horizon Sampled	Others
Horizon Development	Field Analysis (tests)
Sample Depth	Extraction Method
Terrain	
	Reagents Used
Drainage Development	
Estimated Range of Overburden Thickness	
	Extraction Method
	Analytical Method Reagents Used
	Reagents Used
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing)	Commercial Laboratory (tests
Mesh size of fraction used for analysis	Name of Laboratory
Mesti size of fraction used for analysis	Extraction Method
	Analytical Method
	Reagents Used
•	
General	General ————————————————————————————————————

## GEOL. LEGEND Quartz diabase. diabase. Grate 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 Andesite basalt pillow lava 2a, Diabasic lava 2b, Spherulitic lava 2c, Fragmental lava 2d, Tuff & chert 2e, Talc-chlorite schist 2f. Greywacke la, Arkose lb, Quartzite lc, Argillite or shale ld, Conglomerate le, Iron formation If, Chlorite schist lg. Carbonate rock

## GEO-MAG SYMBOLS

---- Mag. Profile

Quartz veins



TOPO-SYMBOLS

Outcrop

Higher ground

\_\_ Scarp

\* \* Muskeg or Swamp

Creek

Drill hole

Bush road

Direction in which lave flows face, indicated by shape of pillows

Strike - Dip of Schistosity

## ELECTRO-MAG SYMBOLS

SEONICS 15 UNIT

A--A Conductive Zone (Red)

D--D Magnetic Conductor (Blue)
O--O Nil

Scale - 20 units - 1 inch West & South - Pos. (Red)

East & North - Neg. (Blue)

Scale - 40 units = 1 inch

Conducting Zone - M = Strong

RONKA HL. UNIT

x In phase curve

O---O Out phase curve
NPCS Not proper coil spacing

NPCS Not proper coil spacing

East - Positive. West - Negative

M'PHAR V.L. UNIT

| t--+ Dip angle profile North & East - Positive South & West - Negative

LEGEND SHEET PROVINCE OF ONTARIO

MANVILLE CANADA INC.

1984 12 13
Your File:
Our File: 2.7535
Rining Recorder

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

Dear Sir:

We received reports and maps on December 7, 1985 for a Geophysical (Radiometric) Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 579570 et al in the Townships of Sheraton, Timmins and Egan.

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 1NO

## Mining Lands Section

## File No 27535

Control Sheet

MADE VE CIIDI	VEV GRODWIGTOR
TYPE OF SURV	
	GEOLOGICAL
	GEOCHEMICAL
	EXPENDITURE
MINING LANDS COMMENTS:	
···	
Lgd. L	.D.
	Domisk. Signature of Assessor

Date

2.7535   P-579570   V									
Rd Gel P-579570 V V  579571 V  579582 V  579605 V  C1818C V  G36127 V  G36129 V V							2.7535		
P-579570 VV  579571 VV  579581 V  579582 V  579605 V  C1818C V  G36127 V  G36129 V		Rad.	Ged.						
579571 V 579582 V 579604 V 579605 V 636127 V 636128 V 636129 V	P-579570		V						
579582 U 579604 U 579605 V 636127 U 636129 V	2		U						
579582 V 579604 V 579605 V 618186 V 636127 V 636128 V	1		//						
579C04 V 579C05 V C1818C V 636127 V 636129 V	•		V						
579C05 V C1818C V G3C127 V C3C128 V			$ \nu $	Í					
636127 V 636129 V 636129 V			V						
636127 V 636129 V			V						
636129			V						
636129	· ·		V						
		V	V					 	
D.K					·				
D.K									
J.K									
J.K.									
D.K.									
J.K.	•								
J.K.							.*		
J.K.									
	,—						D.K.		



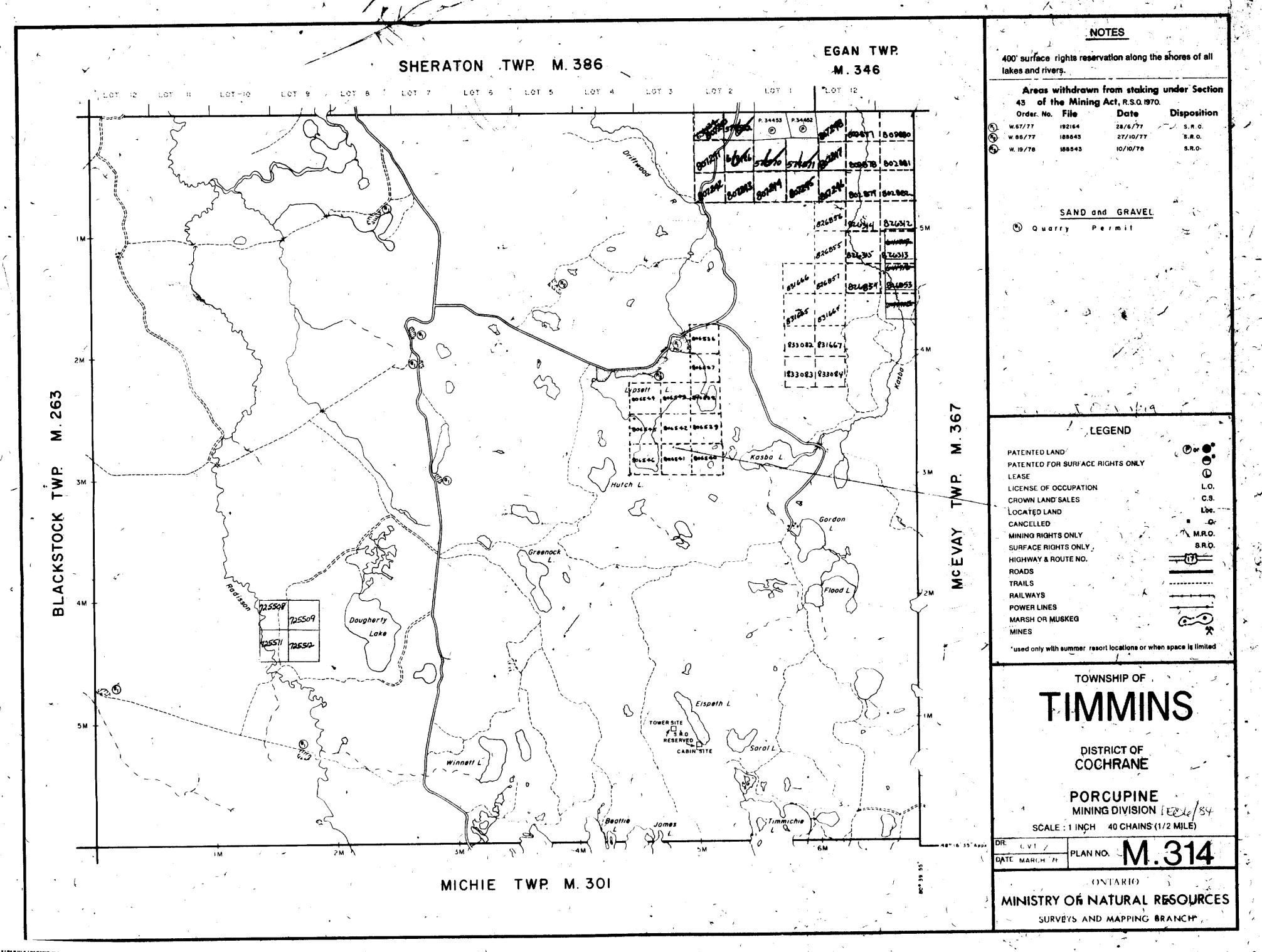
1362 (81/9)

## Report of Work (Geophysical, Geological, Geochemical and Expenditures)

Instructions: — Please type or print.
— If number of mining claims traversed exceeds space on this form, attach a list.

Note: — Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

			Mining /	Act			Expend. Days Cr. shaded areas belov	
Type of Survey(s)					Township o			
Geolo	gical & Geop	hysica	1		Sherat	on, I	immins, E	gan
Claim Holder(s)								
Address Manvi	lle Canada I	nc.	· · · · · · · · · · · · · · · · · · ·			Ţ	r <u>-1330</u>	
	Boy 610 Mat	hocon	Ontori	- DOV 11	NO			
Survey Company	Box 610, Mat	neson,	Unicall	Date of Survey	(from & to)		Total Miles of line	Cut
	as above		,	9 8 1 Day   Mo.	84   26 8	8.4 lo. j Vr.	12.05	
Name and Address of Author (o	f Geo-Technical report)			t tille de le tille - tille för forfordere de entretendene i i dermedlichet				
	<u> </u>		111				<u>-</u>	
Credits Requested per Each ( Special Provisions		Days per		ims Traversed ( ing Claim	List in numer		ence) lining Claim	Expend.
Factoria	Geophysical	Claim	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.
For first survey: Enter 40 days, (This	- Electromagnetic		P	579570		L	636128	
includes line cutting)	- Magnetometer		eranz szajah	579571			636129	
_	- Radiometric		***		<del>  </del>	American Co. 3	030123	· <del> </del>
For each additional survey: using the same grid:		20	-	579581		7,4 W. 2 2 **		
Enter 20 days (for each)	- Other			579582				
	Geological	20		579604				
	Geochemical			579605				
Man Days		Days per					~	
Complete reverse side	Geophysical	Claim		618186	<b>_</b>	A		ļ
and enter total(s) here	- Electromagnetic			636127		to the train		
	- Magnetometer							
	- Radiometric			<del></del>			<del></del>	
						- NA		
	- Other	<u> </u>						
	Geological		26.9	i	RECE	VE		
	Geochemical							
Airborne Credits		Days per			DEC 0 ?	1004	elikil vari ili bijir share marake spir paj yagayay qaa ay a	<del> </del>
		Claim	-		<del> </del>	1007		<u> </u>
Note: Special provisions credits do not apply	Electromagnetic			MIN	ING LAND	Ora-		
* * *	Magnetometer				The County	SECTI	ON	
	Radio metric PORCUPIN	E MINING DIVI	SION				***************************************	1
Expenditures (excludes pow		FIN	E ID		<del>  </del>			
Type of Work Performed		-15-U-Y	<b>4</b>		<u> </u>			
	111-0	05 mg						
Performed on Claim(s)	A.M.	00 80	P.M.					
	7,8,9,10,11	1-12-1-2 8	41516		1			
					<del>  </del>			
Calculation of Expanditure Day								
Total Expenditures		Total s Credits						
\$	÷ 15 =					Total our	nber of mining	
							vered by this	10
Instructions Total Days Credits may be as	oportioned at the claim h	older's	F	O#: Use C	\_l.	1		j
choice. Enter number of day in columns at right.	s credits per claim selecte	ed	Total Days C	or Office Use C		Mining Re	corder	<del></del>
			Recorded					
	coraed Holder or Agent (S	Signature)		Date Approved	as Recorded	Branch Di	rector	·····
Dec 5/84 -	troubles	-K						
Certification Verifying Repo	<del></del>							
I hereby certify that I have a or witnessed same during and					of Work annex	ed hereto,	having performed t	he work
Name and Postal Address of Per		und the anne	ven ishoif is fi	ut.				
	J. Evelegh,	Box 6	10, Mat	heson. O	ntario	POK 1	LNO	
			,	Date Certified			by (Signature)	()
I				Dec !	5/84	XI.	Les	K



applied ceristay SHERATON TOWNSHIP MINING DIVISION PORCUPINE MINISTRY OF NATURAL RESOURCES M.386 SURVEYS AND MAPPING BRANCH DISTRICT OF COCHRANE SCALE 40 CHAINS TO ONE INCH Applications BOND TWP (P) (P) 195031 199503 craton 795043 195044 795513 795514 195038 795037 79503 2 795504 (795509 1955 10 795033 795505 795608 1795511 795034,795506 (P) (P) 795035 795507 P 805 76 41 805 765 805 766  $\vec{\mathbf{u}}$ 865714 80577 5 105776 799492 799995 OS.R.O SR OPEN 801511 DESTE 749512 7495/3 (F) 1799194 P 801510 801539 799515 799514 S (P) (b) Σ 0 799467 1 199 468 8015/2 80/536 799 96 9 1799476 801513 801537 799517 (i)P 5.80. 799 519 799 518 799471 1799,472 · . . . . M,R O. ·P (P) 5. R 01 C'P P 5.R O. **(P) (P) (P)** BOUNDAR DISTRICT 2 3 · 5 7 9



PATENIED LANDS

& MOLEVALIATOR

TIMMINS

LEGEND CROWN LAND SALES .... Order No 16/83.

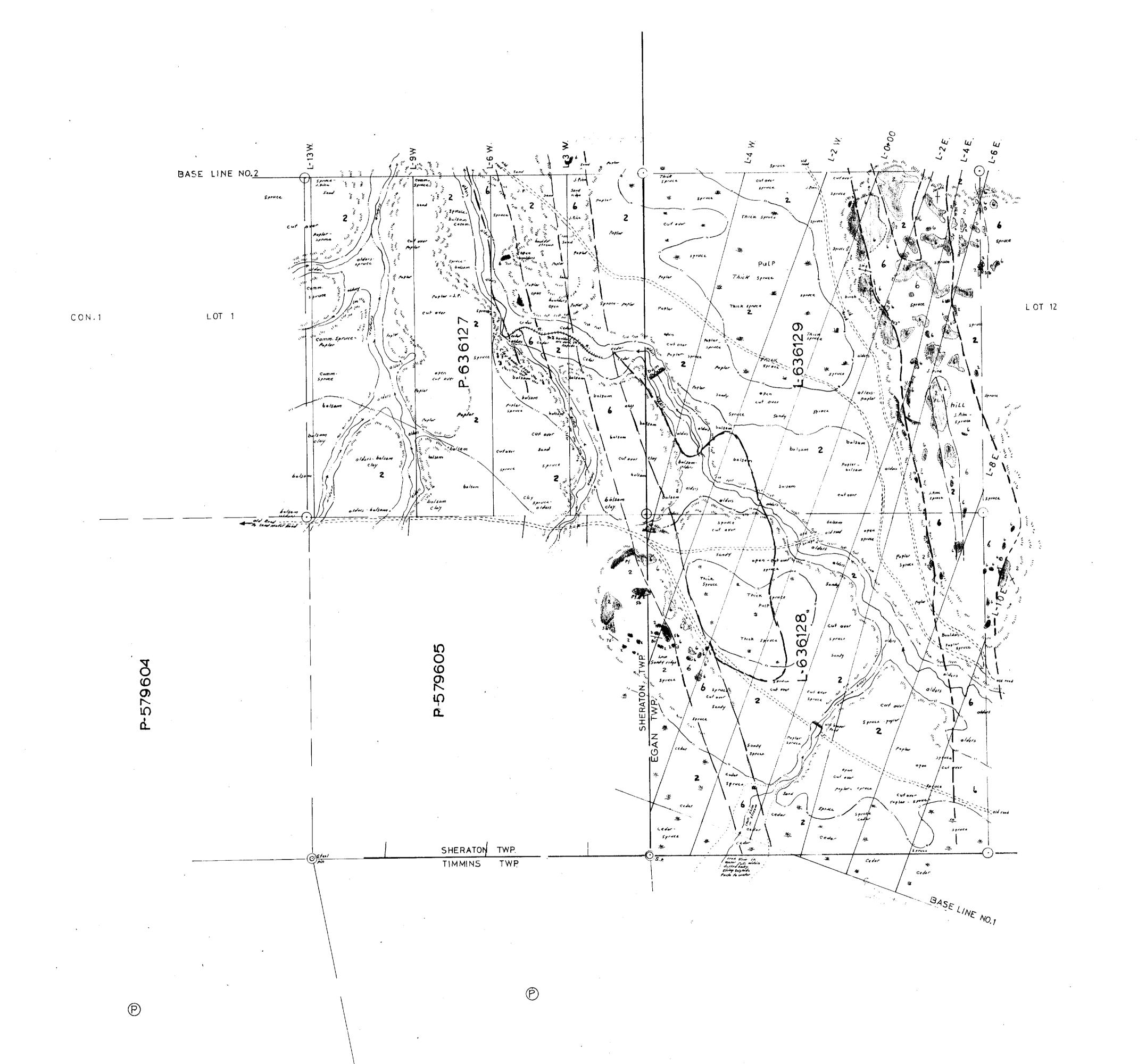
TWP.

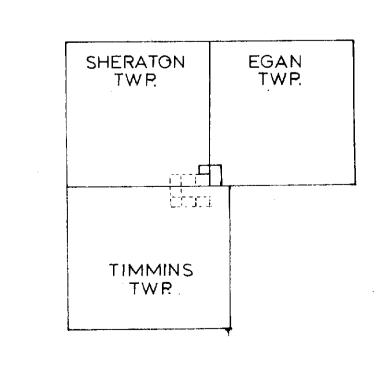
400' Surface rights reservation around all lakes and rivers. REGISTERED PLAN OF SUBDIVISION

10

in om staking under Section

## EGAN TOWNSHIP LARDER LAKE MINING DIVISION M.346 - N**ONTARIO** MINISTRY OF NATURAL RESOURCES DISTRICT OF COCHRANE SCALE 40 CHAINS TO ONE INCH CURRIE TWP. Pi. **(P)** P T W P. Z **P** P 0 4 P P **@** 32186 M.R.O. 12111 P **@** 2110 P P P 735550 735549 **P** 735561 735562 735563 P 2 3 4 6 7 9 TWR MCEVAY L. M.R.O. 400' Surface rights reservation around all lakes and rivers. LEASES MINING RIGHTS ONLY LEGEND 5, R.O. SURFACE RIGHTS ONLY CANCELLED LICENSE OF OCCUPATION ... L.O IMPROVED ROADS ... CROWN LAND SALES .......





GEOLOGY & TOPOGRAPHIC PLAN

LOT 1 LOT 2 P-636127 EGAN TWP SHERATON TWP. EGAN TWP TIMMINS TWP. SEP 2 6 1984

42A07NE0211 2.7535 EGAN

CON.1

GEOLOGY & TOPOGRAPHIC PLAN MANVILLE CANADA INC.

ONT. 1" 200' BLANCHETTE GR. - SHERATON & TIMMINS TWPS.



42A07NE0211 2.7535 EGAN

BLANCHETTE N.E. EXT. GR. ONT. 1"-200'

GR. OPERATER K. GRAY

# Eveloph

SHERATON & EGAN TWPS.

LOT 12 LOT 1 P-636127 LOT 2 12-27-26 9-1.5-16 8-1.8-1.6 12-20-27 2 - 2.50 - 2.5 11-2.0-1.8 12-113-15 g- 1.0-0.8 BOULDER TILL 2-2.50- 2.54 9-1.5-1.0 12-28-28 11-1.6-1.5 .11 . 2.0 - 2.0 1-20-20 6-0.6-0.5 6-0.7-0.6 11-2.4-2.2 10-2-5-24 SAND 7-060-060 -/2- 2.5-2.4 7-04-05 10-2-2 6-0.7-0.7 11-1.2 -1.15 10-23-8.0 9-1.5-1.2 7-050-0.4 12-2-2-2-0 7.05.05 2.00 - 3.00 6-0.6-0.4 7-0.8-0.7 7-0.6-0.6 10-1.8-1.5 10=1.2-1.0-6 - 0.50 - 0.50 11-20-18 11 - 2.20-2.50 11-2-2 5-0.15-0.15 7-0.6-0.6 -9-1.5-1.5 11-1.8-1.8 6 - 0. 50-465 10 - 1.80 - 1.84 9-0.7-06 11-2.5-2.5 DUTÇKDP AREA 5.02-0.18 9-14-14 13-118-16 9 - 1.8 - 1.5 5-0.2-0.18 8.0.70-60 (10-1.6-1.5 6-0.5-0.4 5-015-0.18 -5-0.6-0.6 SWAMP 8-1.5-14 SWAMP 6-0.7-0.5 13-11.5-15 8-0.80-.60 11-1.5-1.4 9-1.46-1.48 9-2-20 8-0.80-0.70 5-0.3-0.28 6-0,24-0.22 13-20-18 8-1.0- -09 112-15-15 7-0-60--60 6-0.5-0.5 9-1.5-1.4 8-080-080 6-0.25-0.23 5-03-026 8-0.70-0.72 13-1.8-1.5 8-0-9-08 16-040-140 6-0.6-0.5 13-25-22 9-1.5-1.5 B . 0.80 . 0.80 8- 1.5- 1.8 5-0.30-0.30 5-23-03 5-0.20-0.20 8-0.70-0.70 15-28-25 13-20-18 8-0.7-0.7 5-0.25-0.24 5-0.18-0.16 6-0,60 -- 50 8-1.0-1.2 8-07-07 4-0.15-0.15 5-0.2-0.18 14-1.8-1.5 12-1.8-1.8 8-0.8-0.6 6-070-.70 12-18-16 6-0.8-0.6 0.70-0.72 18-1-10 CON.1 4-0.26-0.25 -4-0.18-0.16 SAND -/8-/5 12-20-18 8-12-10 -6---70-60 6- 0.70- 0.70 6-0.7-0.6 O) 4-0.18-0.18 8-1-15 4-0.30-0.28 12-18-15 4-018-0.18 18-10-10 6-0.50 3.40 11-1.5-1.4 5-0.30-0.35 4-0.18-0.18 12-18-17 7- 1.5- 1.0 3-0.15-0-12 4-0.2-0.2 12-20-18 8-0.8-0.6 10 -1.5-1.5 -6-0.50-0.56 6-0.3-0.2 6-0.30-0.32 12-20-15 7-1.5-1.0 4-0.25-0.25 11-20-20 7-0.8-0.7 3-0.15-0.14 5-0.15-0.15 12-2.0-1.8 9-08-08-5-0.25-0.26 7- 1.5-10 4-0.25.020 - 4-0.25- 0.24 4-0.20-0.18 -11-1.7-1.5 5-0.15-0.75 7-08-0.6 5-0.20-0.20 5-0.2-0.2 9-0.8-0.9 9-09-08 4 0.20-0.20 - 4-218-0.16 11-16-15 6-0.7-0.5 12-20-18 5 - 0.25 - 0.25 10-1.8-1.6 5-0.22-0.24 4-0.20-0.22 5-03-0.25 - 3-0.18-0.16 -5 -0.32-0.30 112-1.5-1.5 11-1-8-1-6 13-30-32 5-0.20-0.22 - 3-0./8-0./4 4-018-018 4-025.024 6-04-04 13-25-20 -5 - 0.30 - 0.28 11-1.8-1.8 4-0.15-0.18 - 5-0,Z-0.1 7-0.5-06 4-0.20-0.20 4 - 0.16 - 0.14 4-0.20-0.19 13-20-15 1/2-2-2-2.0 6-0.5-04 5-0.20-0.18 4-0-15-0.16 6-0.5-0.5 -4-0.18-0.18 4 .0.16 - 0.15 4-070-014 13-30-28 5-0.20-0.18 11-16-15 7-0.5-0.5 4-0.15-0.15 5-0.2-04 10-10-20-20 . 4 - 0.20- 0.20 4 .0.14-0.12 -4-0.2-0.15 5 - 0.30 - 0.30 12-2-0-1.8 +11-15-15 7 - 0.5-0.4 4-0.16-0.18 ./3-2.5-2.4 -5, 0 Z, 0 Z 13-20-20 12 - 2.8 - 3.0 4-0.25-0.24 4-0.15-0.15 - 6-025-025 7-05-05 4-0.16-0.18 -11-1.5-1.0 4-0.15-0.15 8-09-08 -4-0.20-0+18 OUTCBOP AREA LE-3.5-3.0 OUTCROP - 7- 0.5-0.4 4-0.25-0.20 4-.18-D.18 4-0.2-0.20 11-1.5-1.5 EGAN TWP 12-2.5-2.5 4-0.18-0.15 -40.20-0.18 8-1.0-0.8 7-0.6-04 16-40-3.8 -12-24-20 SAND 15-0.3-0.3 16-4.0-3.6 B.L.NO.1 SHERATON TWP. 13-32-30 13-1.8-1.5 14-50.30 13-3.0-2.8 TIMMINS TWP 5- 0.2-0.1 OUTCROP AREA 13-32-30 4-0.7-0.2 15-4.0-4.0 -13-3-4-3-2 4- 0.15-0.1 13-3.8-3.0 5 - 5-0.25-0.25 CUTCROP AREA 1-14-20-1.5 13.5-1.5-1.5 13-26-24 11-20-1.5 1 1 13-20-20 1 ./3-2.5-2.4 -10-1.5-1.5 SAND 11-1.8-1.7 P . 11.5-2.0-1.0 13-1.8-1.5 1-10-1.5-1.0 1 -12-1.6-1.6 . 14.5-1.8-1.5 11-20-20 -10-1.5-1.5 - 12-2.0-1.8 12-20-15 11-1.5-1.0 W . /2. 2.0 - /.5 12-119-118 . 12-2-0-1.5 11-20-18 12-1.8-1.6 12-25-24 12-15-18 11 2.0-18 \_ 1/2- 1.8-1.8 13-2.5- 2.2 12.20-18 13-3.0-2.8 , 12-15-10 11- 4.5-1.5 10-1.5-1.0 13-3.0-2.8 14-14-15 10-15-15 13725-28 14-3.5-3.4 Po . 11-1.8-16 15-20.20 X10-1.4-1.5 12-1.8-1.8 1 9-10-10 11- 1.5= 1.5 SAND 12-16-15 9-12-14 8-0.8-0.7 . 12-1.8-1.6 5 - 0.25 - 0.26 5-0.30-0.30 5-0.3-0.3 6 0.6-0.6 5 - 0.25 - 0.25 5-0.30-0.30 5-03-0.25 12-20-202 . 14- 3.0-1.5 - 6- 0.5-0.5 10-450-1.60 11-180-170 5-030 0.25 OUTCROP AREA 5-0.2-0.15 . 13-20-15 6-030-032 8-0.6-0.4 4.0.20- p.20 5-628-0.22 15-0.2-0.2 SWAMP -14-2.0-2.0 11 1.60 -1.80 10-0.8-1.0 4-0.20- 0.22 50 25- 0.25 2-0-25-0.2 -15-15-2.5-3.0 6- 0.30- 0.30 5-0.18-0.20 8-080-0.84 4-0.18- 0.18 5-025,0.25 SHERATON EGAN. 8-0.80-0.84 10-1.5-1.5 10-150-154 6-0.70-0.76 5-0.25-0.26 4-0.18-0.20/ TWP. TWP. . 14-2.5-2.6 10-104-1.06 11-1.80-1.80 5.0.18-0.18 8-0.7-0.7 4-0.70- 070 4-0.20-0.20 -7-0.80-0.82 .6-0.70-0 74 - /4-2.5-2.0 -11-1.08-Z.00 · B-0.7- 0.8 10-1.50-1.50 4.0.12-014 4-0.20-0.20 4-0,26-0.22 ,6-0,50-050 5-06-0.60 .14.2.5-2.0 4-0.12-0.14 . g = 1.00 - 1.02 7-0.6-0.6 5-0.20-0.20 4-0.20-0.18 12-20-18 . 13-2.4- 2.0 9-1.00-1.02 8.0.80-0.80 6-0.4-0.5 4.415-0.15 7-0.70-0.80 - 5-0.24-0.25 5-030-032 5-0.40-042 13-20-18 8-0.80-0.80 . 13-18-20 8-1.80-1.82 6-0,4-0.35 6-0.20-0.20 6-0.30-0.30 5-036-032 5-040-0.35 5-0.22-0.22 12-15-16 ./3-/5-/5 10-0.90-0.92-8-0.80-0.82 .5-0.2-0.2 60.30-0.32 5-025-024 5-0,36 032 5-0.20-6.20 15-0.27-0.24 13-1.6-1.8 10-1.80-1.82 8-0.30-0.82 5-0.3-0.3 -5-0.15-0.15 50.24-0.25 4-0.18-0-20 5-0.25-0.25 15-030-032 -5-04-04 .13-1.8-1.8 8 - 0.90 - 0.92 5-0.25-0.25 . 5- 6.4- 0.35 4-0.18-0.18 TIMMINS 114-20-18 5-024-024 15-025-026 4-025-022 5-0.25-0.26 QUICROP AREA TWP. 5-0.3-0.3 1-5-0.4-0.4 5-020-0.21 5-0.20-0.22 4-0.16-01/6 5-0.27-0.25 4-0.10-0.12 5-0.16-0.18 . 5-0.3-0.3 SWAMP 6-0.22-0.24 4-0.20-0.20 \$ 6.15- 6 15 \$ 5-0.20 0.22 .//-/.2. 4-0.22-0.22 4-0.08-0.10 4-0.15-0.15 6-0.26-0/26 3-0.20-0.20 5-0.18-0.18 7.06.05 4-0.18 - 0.20 - 13-1.5-1.5 5.0.18-0.18 4-0.3-0.3 6-0.32 8-09-08 5-0.15-0.16 4-0,10-0.12 5-0.30-030 5-0.18-0.18 . 12-20-15 5-0.15-0.16 4-0.2-0.2 5-0.14-0.15 6-0.25-0.26 5-215-015 4-0.04-0.04 4-0.04-0.05 5-0.18-0.20 11-1.4-1.4 5-0.15-0.15 RADIOMETRIC SURVEY PLAN 5.015-0.15 4-0.25-0.20 5-0.24-0.26 50.15 -0.18 4-005-006 4-005-004 + 12-1-6-45 15-0.15-0.18 5-0-15-0.16 5-0.3-0.3 5-0.22-0.22 40.04-0.06 4- 0.03-0.03 12-118-14 READINGS IN C.P.S.

TAL U.+TH. TH.
0.06 0.04 5-0.14-0.15 5-0.4-0.3 5-0.10-0.22 4-0.03-0.03 4-0.03-0.04 INST. - GIS-2 SHARPE SERIAL NO.710123 MANVILLE CANADA INC.

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BLANCHETTE GR. - SHERATON & TIMMINS TWP

ONT. 1": 200'