

2.13055

MORRIS - SWANSON PROPERTY

REPORT ON MAGNETOMETER AND VLF-EM SURVEYS.

ROBILLARD TOWNSHIP, LARDER LAKE MINING DIVISION.

FREDERICK SWANSON

a 10668

JANUARY 26, 1990



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1.0 INTRODUCTION

A program consisting of linecutting, ground magnetometer and VLF-EM surveys was performed to assist in the geological interpretation of the property, and to attempt to detect targets with potential for gold deposition, in an area known to have many gold occurences.

2.0 PROPERTY

The property is jointly held by J. Morris of Englehart, Ontario, and F. Swanson of Box 1418 Haileybury, Ontario.

The property presently consists of 29 unpatented contiguous claims. (see fig. la)

Recording Date

L	 1013264 - 1	.013274	incl.	August 8, 1989
	1013324 - 1	013327	incl.	August 8, 1989
	1013329 - 1	.013333	incl.	September 18, 1989
	1013336, 1	013328		October 13, 1989
	1126231 - 1	126234	incl.	October 13, 1989

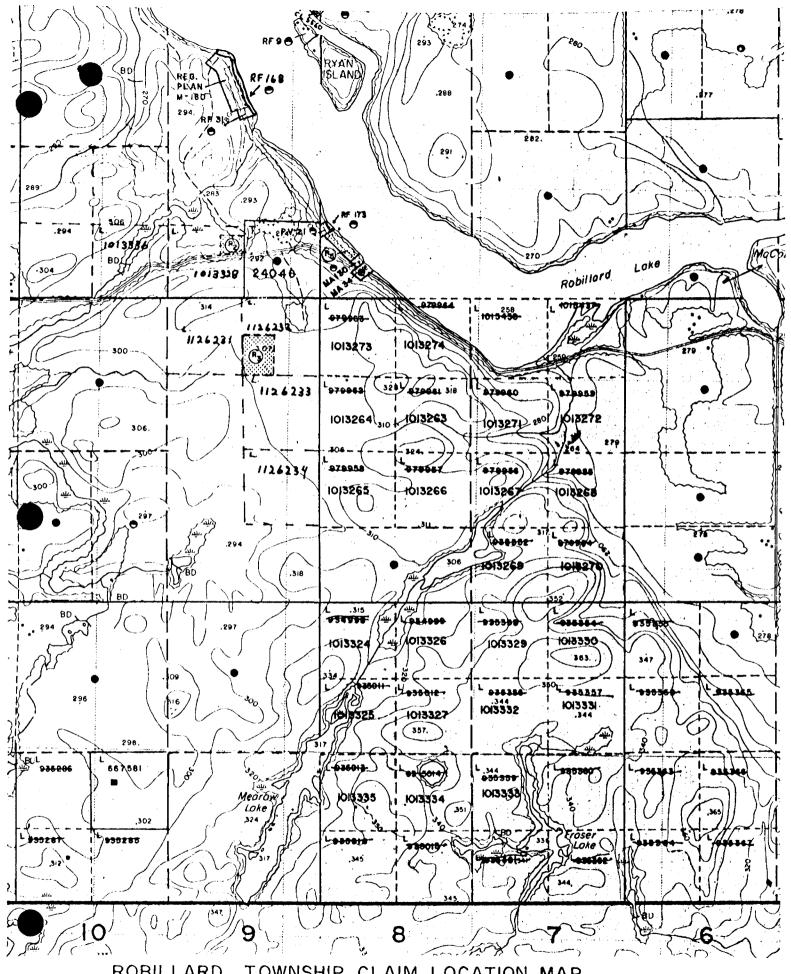
3.0 LOCATION AND ACCESS

Numbered

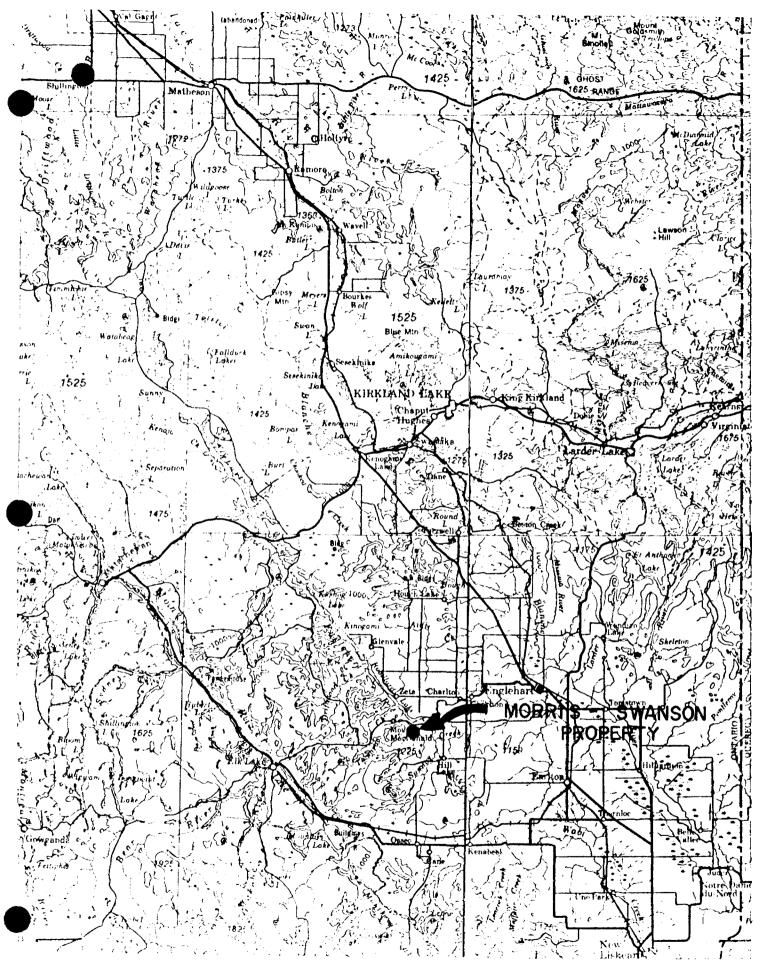
The property is located in lots 7,8,9 & 10; concessions I, II, & III, Robillard Township, District of Timiskaming. (41 P/16, N.T.S.)

The claims are located in the Larder Lake Mining Division. (see fig. 1b)

Excellent access is gained by Highway 560, an all weather paved road that crosses the northern extremity of the property. An old logging road and several good trails give access to the southern areas of the claim group.



ROBILLARD TOWNSHIP CLAIM LOCATION MAP.



PROPERTY LOCATION MAP

4.0 TOPOGRAPHY

Rugged terrain is common on the northern and eastern extremities of the property, with frequent outcrop exposures present.

The majority of the property is hummocky, with shallow drift covering the bedrock, while glacial outwash sand deposits overlie areas of the western claims.

5.0 PREVIOUS WORK

Portions of the property had been prospected and worked with approximately 100 feet of shafting and test pits being sunk (the deepest being approximately 35 feet). About 45 feet of tunnelling had been performed, along with trenching.

This work was done under the name of the Kushaug Syndicate and Long Lake Gold Mining Company Limited in the circa of 1910. Intermittent prospecting occurred through to about 1935.

No recent or modern exploration program has been performed on the property.

6.0 GENERAL GEOLOGY

The area is located along the southern boundary of the exposed Abitibi Greenstone Belt, the meta-volcanics are divided into three groups; the Wabewawa Group, the Catharine Group and the Skead Group. The oldest being the Wabewawa Group consisting of interbedded high basalt, magnesium tholeiitic high iron tholeiitic basalt, komatiitic basalt, and ultramafic flows, the group ranges from 1800 to 3000 metres thick. The Catharine Group consists of high iron tholeiitic basalt, is 4400 metres thick and conformably overlies the Wabewawa Group. The Skead Group is the youngest of the three and conformably overlies the Catherine Group, it is 4480 metres thick and is composed of interdigitated Calc-alkalic andesite to dacite, quartz-feldspar to graded porphyry, pyroclastic breccia, tuff-breccia, lapilli tuff, lapillistone and tuff.

The meta-volcanics have been intruded by localized gabbros, the Skead Group has been intruded by intermediate and felsic prophyries the largest being the Britcanna Porphyry situated between the Catherine and Skead groups.

The Round Lake Batholith composed of foliated, hornblende tonalite, trondhjemite, and granodiorite, has intruded the entire meta-volcanic package.

6.0 GENERAL GEOLOGY (contd)

Fine grained lamprophyre dykes and early precambrian diabase dykes intrude the batholith as well as the meta-volcanics.

Middle precambrian Cobalt Group sediments unconformably overlie the meta-volcanic and intrusive rocks. The lower unit Gowganda Formation consists of conglomerate, argillite, arenite, and wacke.

These units are overlain by feldspathic arenite containing lenses of pebble conglomerate.

Both the early precambrian meta-volcanics and middle pre-cambrian sediments have been intruded by Nipissing Diabase sills. (see Fig. 2)

Numerous and significant gold occurences exist in the Bryce - Robillard area.

7.0 STRUCTURE

Early precambrian faults, shear zones, and lineaments trend north to north-east, while regional north-west trending faults, (Cross Lake Fault) associated with the Temiskaming rift valley are middle precambrian in age.

8.0 PROPERTY GEOLOGY

The property is bounded to the west by the Hope Lake Stock consisting predominately of tonalite, trondhjemite and granodiorite.

The northern portion of the property is underlain by hornblende schist and granitized meta-volcanics, that have been intruded by granitic rocks, contaminated diorite, and aplite dykes.

Southern areas of the claim group are underlain by mafic meta-volcanic flows, and pillowed flows of the Catherine group.

The northeastern corner of the property is cut by the northwest trending Cross Lake Fault. Northeast trending pyritized shear zones cross the property. (see figs. 3a & 3b)

TABLE 1. TABLE OF LITHOLOGIC UNITS FOR THE HILL LAKE AREA.

PHANEROZOIC

CENOZOIC

QUATERNARY

PLEISTOCENE AND RECENT
Glacial, glaciofluvial, swamp, lake and stream deposits.

Unconformity

PRECAMBRIAN

MIDDLE PRECAMBRIAN

MAFIC INTRUSIVE ROCKS

NIPISSING DIABASE

Diabase, diabase-chilled margins, aplite, and granophyre.

Intrusive Contact

HURONIAN SUPERGROUP

COBALT GROUP

LORRAIN FORMATION

Feldspathic arenite, grit to pebble conglomerate, and breccia dike.

Conformable Contact

GOWGANDA FORMATION

Matrix-supported conglomerate, clast-supported conglomerate, mudstone and wacke, green-grey argillite, feldspathic lithic arenite, wacke.

Unconformity

EARLY PRECAMBRIAN

UNMETAMORPHOSED MAFIC INTRUSIVE ROCKS Diabase, porphyritic diabase.

Intrusive Contact

MAFIC ALKALIC INTRUSIVE ROCKS
Lamprophyre, pebble-bearing lamprophyre.

Intrusive Contact

FELSIC TO INTERMEDIATE INTRUSIVE ROCKS

Tonalite, trondhjemite, granodiorite, aplite, cataclastic tonalite, contaminated tonalite to diorite, tonalite with mafic xenoliths, mylonite.

Intrusive Contact

METAMORPHOSED FELSIC TO INTERMEDIATE INTRUSIVE ROCKS
Ouartz porphyry, feldspar porphyry, quartz-feldspar porphyry, felsite.

Intrusive Contact

METAMORPHOSED MAFIC INTRUSIVE ROCKS

Hypersthene diorite, gabbro, porphyritic gabbro, hornblende gabbro, diabase.

Intrusive Contact

CHARLTON ULTRAMAFIC INTRUSION
Wehrlite, pyroxenite, leucocratic gabbronorite, variolitic mafic dike.

Intrusive Contact

METASEDIMENTS

CHEMICAL METASEDIMENTS:
Chert, very fine grained felsic tuff.

METAVOLCANICS

ULTRAMAFIC METAVOLCANICS
Peridotite, talc-carbonate schist, chlorite schist.

INTERMEDIATE TO FELSIC METAVOLCANICS Flows, quartz-feldspar porphyry, tuff, lapilli-tuff, lapillistone, tuff-breccia, pyroclastic breccia.

MAFIC METAVOLCANICS

Flows, pillowed flows, amygdaloidal flows, variolitic flows, black high iron flows, broken pillow breccia, isolated pillow breccia, flow breccia, porphyritic flows, amphibolite.

from Johns, G.W. (1986)

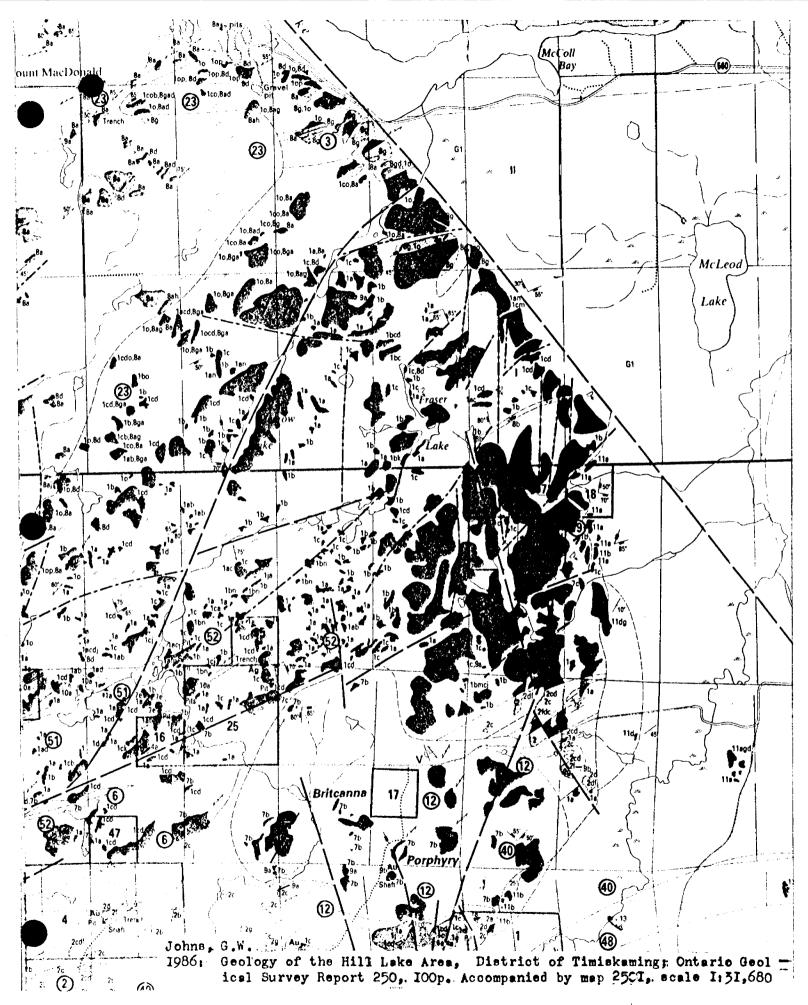


fig. 3a

PHANEROZOIC



QUATERNARY

PLEISTOCENE AND RECENT

Glacial olačiofluvial swamo lake and stream deposits

UNCONFORMITY

PRECAMBRIANS

MIDDLE PRECAMBRIAN

MAFIC INTRUSIVE ROCKS NIPISSING DIABASE



- t3a Diabase
- 13c Diabase chilled margins 13d Aplite, granophyre

INTRUSIVE CONTACT

HURONIAN SUPERGROUP

CORALT GROUP

LORRAIN FORMATION



- 12a Feldspathic arenite
- 12b. Grit to pebble conglomerate.

12c. Breccia dike

CONFORMABLE CONTACT

GOWGANDA FORMATION



- 11a. Conglomerate, matrix supported.
- 11b Conglomerate, clast supported 11c Thickly laminated mudstone and
- wacké
- 11d Thickly laminated green-gray mudstone and shale
- 11e Feldspathic lithic arenite
- 11g Wacke.

UNCONFORMITY

EARLY PRECAMBRIAN

UNMETAMORPHOSED MAFIC INTRUSIVE ROCKS



- 10a Diabase
- 10b Porphyritic diabase (feldspar phenocrysts)

INTRUSIVE CONTACT

MAFIC ALKALIC INTRUSIVE ROCKS



- 9a Lamprophyre
- 9b Pebble bearing lamprophyre INTRUSIVE CONTACT

FELSIC TO INTERMEDIATE INTRUSIVE **ROCKS**



- Unsubdivided
- 8a Tonalite, trondhjemite
- 8b Granodiorite
- 8d Aplite
- 8f Cataclastic tonalite
- 8g Contaminated tonalite, diorite
- 8h Tonalite with malic metavolcanic
- 8) Mylonite

INTRUSIVE CONTACTS

METAMORPHOSED FELSIC TO INTERMEDIATE INTRUSIVE ROCKS



- Unsubdivided
- ?a. Quartz porphyry
- 7b Feldspar porphyry 7c. Quartz feldspar porphyry
- 7e Felsite
- 7f Carbonatized

INTRUSIVE CONTACT

- Johns, G.W.

Unsubdivided

ROCKS

6a. Hypersthene diorite

METAMORPHOSED MARIC INTRUSIVE

- 6b Gabbro
- 6c Porphyritic gabbro (feldspar phenocrysts)
- 6d. Hornblende diorite
- 6e Diabase
 - INTRUSIVE CONTACT

CHARLTON ULTRAMAFIC INTRUSION

- 5a Webilite
- 5c Pyroxenite
- 5d Leucocratic gabbronorite
- 5e Carbonalizeď
- 5f Serpentinized
- 5a Variolitic mafic dike INTRUSIVE CONTACT

METASEDIMENTS CHEMICAL METASEDIMENTS®

4a Chert and very fine grained felsic

METAVOLCANICS ULTRAMAFIC METAVOLCANICS®



- 3 Unsubdivided
- 3a Massive peridotite
- 3c Spinifex texture 3d Talc-carbonate schist
- 3e Chlorite schist.
- 3f Tremolite
- 3g Carbonatized

INTERMEDIATE TO FELSIC METAVOLCANICS



- Unsubdivided
- 2a Massive lava
- 2b Porphyritic lava (feldspar and quartz phenocrysts).
- 2d Lapilli-tuff
- 2e Lapillistone 2f Tuff breccia.
- 2g Pyroclastic breccia 2h Carbonalized
- 2j Amphibolitized hybridized

MAFIC METAVOLCANICS®



- Unsubdivided
- 1a Massive line grained lava 1b Massive medium-grained lava
- 1c Pillowed lava
- 1d Amygdaloidal lava. 1e Variolitic lava.
- 1g Black high iron matic lava.
- Spinifex texture
- 1) Broken pillow breccia
- 1k Isolated pillow breccia
- 1m Flow breccia
- In Porphyritic flow (amphibole phenocrysis)
- to Amphibolite
- 1p Metamorphic layering
- 1q Carbonalized
- Ir Xenoliths of intermediate tuffaceous material
- 1s Epidotized malic flows
- Breccia

Silver Ag Gold Au Chalcopyrite ср

Cu Copper Fuchsite Glacial striae. Glacial fluting or

drumlin

vertical).

Esker

Bedrock; (small outcrop, area of outcrop)

Bedding, top unknown; (inclined,

Bedding, horizontal.

70° 70° 80°

Bedding, top indicated by arrow; (inclined, vertical, overturned).

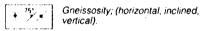
ation; (inclined, vertical, overturned). Bedding, top (arrow) from cross bedding; (inclined, vertical, overturned).

Bedding, top (arrow) from grain grad-

Bedding, top (arrow) from relationship of cleavage and bedding; (inclined, overturned). Lava flow; top (arrow) from pillows shape and packing. Lava flow; top in direction of arrow

8 8 \$ 15°7

Schistosity; (horizontal, inclined, vertical).



vertical). Foliation; (horizontal, inclined,

1 10/1

Banding; (horizontal, inclined, vertical)

Lineation with plunge.

vertical).

Geological boundary; (observed, position interpreted, deduced from geophysics). Magnetic contour value in gammas.

MA

-- 10007

Magnetic attraction. Fault; (observed, assumed). Spot indicates down throw side, arrows indicate horizontal movement.

Lineament

Jointing; (horizontal, inclined,



Drag folds with plunge

vertical).

Anticline, syncline, with plunge.

Drill hole; (vertical, inclined, projected vertically, projected up dip). Overburden shown

1. 44

Vein, vein network. Width in inches, feet or metres

RA

Radioactivity.

1540}

Motor road. Provincial highway number encircled where applicable.

Other road Trail, portage, winter road

Hematite Geology of the Hill Lake Area, District of Timiskaming; Ontario 1986: Geological Survey Report 250, 100p. Accompanied by map 2501, scale I + 31 680

9.0 LINECUTTING

A control grid of lines was cut by the author between the dates of October 18, and December 7, 1989.

The north - south transect lines were cut at 200 metre spacings, with pickett stations at 25 metre intervals for a total of 22.5 line kilometres. (see fig. 4)

10.0 MAGNETOMETER SURVEY

A ground total field magnetometer survey was conducted by the author between the dates of December 8, and December 15, 1989.

The instrument used was a Barringer Research GM-122 Proton Magnetometer, with an accuracy of 1 gamma.

Diurnal drift was levelled by tying into control points on the baseline and correcting in a linear fashion.

The survey covered 22.5 line kilometres with a total of 934 readings taken, the values have been plotted on 1: 2 500 scale plans and contoured at 125 gamma intervals. (see fig. 5a & 5b)

Several readings along the northern boundary could not be taken due to the presence of a power line along highway 560 creating a magnetic gradient too great to record a valid reading.

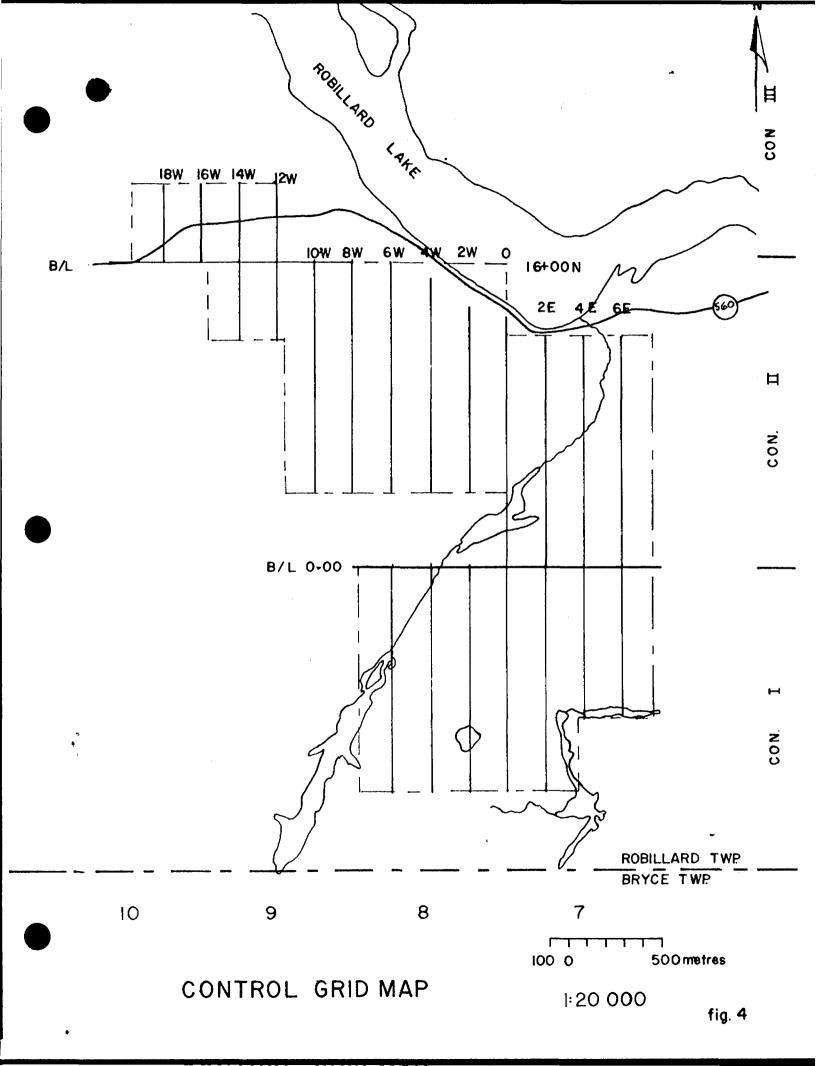
During the survey numerous areas of anomalous magnetic intensity were located that are of geological interest.

The northern portion of the property shows several extensive magnetic highs that are interpreted to be caused by dioritic intrusions into the volcanic and granitic rocks.

In claim 1013272 on the northeastern corner of the property, a large magnetic anomaly (labelled "A") crosses lines 4+00 E & 6+00 E, extending north and east off the property, with an intensity of at least 1200 gamma above background.

Another extensive anomaly (labelled "B") is located in claim 1013270. This anomaly crosses lines 4+00 E & 6+00 E and strikes to the northeast off the property. It is a dipole anomaly with a magnetic low approximately 300 gamma below background lying to the north of a 1000 gamma high. The anomaly has a width of 300 metres on line 6+00 E.

Anomaly (labelled "C") is located in claim 1126233, has an intensity of approximately 1200 gamma above background, and a width of 200 metres and is of unknown length to the west.



10.0 MAGNETOMETER SURVEY (contd)

Two anomalies (labelled "D" & "E") cross lines 2+00 W and 0+00 and extend to the east. Anomaly "D" is of very strong intensity at least 2000 gamma above background with a width of 50 metres. Anomaly "E" has an intensity of approximately 1200 gamma above background, and a width of 75 metres. Both anomaly "D" and "E" extend to the east and are interpreted to be tongues off of the larger dioritic body lying to the east.

Anomaly (labelled "F") is located on line 2+00 W station 6+25 N, and has a width of 75 metres. It has a monopole signature and is interpreted to be a mafic intrusive that appears to plunge to the east.

Anomaly (labelled "G") is located along baseline 16+00 N at approximately 10+50 W. It has a very strong dipole signature, a 600 gamma low lies to the west of a 1000 gamma high. This may be the result of a north-south oriented sheet like mafic dyke.

Anomaly (labelled "H") is a very intense 2000 gamma anomaly that appears to be of small areal extent with a width of 50 metres and an undetermined east-west dimension and is interpreted to be the response to a ultramafic intrusive body.

The southern portion of the property shows relatively flat magnetic data, due to the homogeneous lithology of mafic volcanic flows. One anomaly does stand out however; (labelled "I") located on line 6+00 W on the southern shore of Mearow Lake. It is dipolar in signature with a magnetic low of 300 gamma lying to the north of a 1000 gamma high. This anomaly has a width of 50 metres and is possibly caused by a mafic intrusive body associated with the fault striking northeast through Mearow Lake.

11.0 VLF-EM SURVEY

A VLF survey was conducted by the author between the dates of December 16, 1989 and January 13, 1990.

The instrument used throughout the survey was a Geomics EM-16. The north-south transect lines were surveyed using the station NAA Cutler, Maine. The east-west oriented baselines were surveyed using the station NSS Annapolis, Maryland in order to detect any cross structure.

The survey covered a distance of 22.5 km. and a total of 934 readings were taken.

The values were plotted in profiles on plans with a scale of 1:2 500. (see figs. 6a & 6b)

11.0 VLF-EM SURVEY (contd)

A number of VLF anomalies were located during the survey, several of which can be explained geologically and one that is of cultural origin.

An extremely strong VLF response has been located running east-west along the northern boundary of the claim group. This anomaly is created by a power line that runs along highway 560 and into the radio tower located on claim 1013273, and can be disregarded.

Conductor (labelled "A") shows a strong VLF response running in a NE-SW orientation across the northeastern corner of the property. This anomaly can be directly attributed to the middle precambrian aged Cross Lake Fault.

Conductor (labelled "B") runs NE-SW through Mearow Lake (on the southern sheet) up through the unnamed lake in claim 1013269 and across lines 4+00 E & 6+00 E in claim 1013270. This conductor is also attributed to a known NE trending fault. These NE oriented faults are early precambrian in age and are of much more importance due to their potential for gold deposition. This conductor should be prospected along its extension across lines 4+00 E & 6+00 E for any signs of alteration or shearing.

Conductor (laballed "C") strikes NE-SW across claims 1126234 and 1013265 with a length of at least 750 metres. This conductor is interpreted to be created by the volcanic/granitic contact due to their resistivity differences. This area is covered by thick glacial outwash deposits and the profiles indicate bedrock to be at significant depth.

Conductor (labelled "D") is located in claims 1126233 and 1013264, striking East-West, it appears to extend to the west along the southern boundary of claim 1126231.

This anomaly is also interpreted to be caused by a volcanic granitic contact, however this area is of thinner drift cover and outcrops might be located to be examined.

Conductor (labelled "E") strikes East-West across claim 1013263 and has a length of 400 metres. This anomaly is interpreted to be caused by either a geological contact or a shear or fracture zone. This conductor is in an area of abundant outcrop and should be examined closely.

The southern sheet shows a strong VLF response crossing line 6+00E at approximately 4+50S labelled "F". This conductor does not continue across line 4+00E, but could however continue to the east. This anomaly may be caused by a pyritized shear or fracture zone and should be located and examined.

11.0 VLF-EM SURVEY (contd)

There are several very subtle anomalies located on the southern sheet labelled conductors "G", "H", & "I". These anomalies are very interesting as they may be caused by shear zones in the archean volcanics that are reported to occur in the area. These conductors are located in areas of abundant outcrop and thin layers of drift and they should be located in the field and thoroughly prospected for signs of shearing and alteration.

12.0 CONCLUSIONS & RECOMMENDATIONS

The magnetometer survey was successful in detecting what are interpreted to be lithologic contacts that are favorable locations for gold depositions, and will aid greatly in geological mapping. It would be recommended that the anomalies previously described be located and examined in the field to confirm interpretations and be carefully examined for signs of alteration. It is also recommended that intermediate lines be surveyed to tighten the line spacings thus giving better control and interpretation.

The VLF-EM survey has located faults crossing the property and other conductors that are interpreted as lithologic contacts and shear zones.

These conductors should be located on the ground and carefully prospected for any signs of shearing deformation and alteration.

13.0 CERTIFICATE OF QUALIFICATIONS

I Frederick J. Swanson of P.O. Box 1418 Haileybury, Ontario do hereby certify that:

- Ι. I am a graduate of Brock University and hold a B.Sc. degree in geological sciences (1984).
- II. I have been employed as a Geologist since that time.
- III. I personally conducted the fieldwork described herein.

Dinning 26, 1990 Ded Whomen.

14.0 REFERENCES

Johns, G.W.

1896: Geology of the Hill Lake Area, District of Timiskaming; Ontario Geological Survey Report 250, 100p. Accompanied by map 2501, scale 1:31 680.

Moorhouse, W.W.

1944: Geology of Bryce-Robillard Area; Ontario Department of Mines Vol. L, Part IV, 1941. Accompanied by map 50j, scale 1 inch to 1/2 mile.

Gordon, J.B., Lovell, H.L., de Grijs, Jan and Davie, R.E. 1979: Gold Deposits of Ontario Part 2: Part of District of Cochrane, Districts of Muskoka, Nipissing, Parry Sound, Sudbury, Timiskaming, and Counties of Southern Ontario; Ontario Geological Survey, Mineral Deposits Circular 18, 253p.

Sylvanite Gold Mines

1936: MacDonald Property; Drillcore Logs and Assay Sheets, Resident Geologist Files, Cobalt.

Wray, O.R.

1934: Notes on Property of Long Lake Gold Mining Company Ltd; Resident Geologist Files, Cobalt.

Longmore, E.K.

1910: Report on Kushaug Syndicate and Long Lake Gold Mining Company Limited; Resident Geologist Files, Cobalt.

MINISTRY OF NORTHER HOLL DEVELOPMENT AND MIN

JAN 30. 1990



41P16SE0004 2.13055 ROBILLARD

900

Mining Act

Report of Work (Geophysical, Geold NGENTIVES OF EICE Triveys)

and maximum credits allowed per survey type.

 If number of mining claims traversed exceeds space on this form, attach a list.

 Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch;

Type of Survey(s)		ه . حم	Mining Division		Township or Area	1
MAGNETOME	MAGNETOMER, VLF-EM LARDER LAKE ROBILLARD TWP					
Recorded Holder(s)					Prospect	or's Licence No.
T-REDE	RICK J.S	WANS	.ON		2 3	36389
Address P.O. BOX. 1418, HA			PAILEVBUR	· V	Telephor	-672-5491
Cupicu Componu					705	6/2 0 , , ,
F. S	SWANSON	7	1305	<		
Name and Address of Author (of			· /	<u> </u>	Date of	Survey (from & to) 10 89 26 01 90
FREDERICK .	SWANSON	BO	× 1418 , HAI	LEYBUR	Oy Day	10 89 26 01 90 Mo. Yr. Day Mo. Yr.
Credits Requested per Ea			Mining Claims Trave	rsed (List in	numerical sequen	ce)
Special Provisions	Carabinatasi	Days per	Mining Claim		Mining Claim	Minimp Claim
For first survey:	Geophysical	Claim	Prefix Number	V Pref	Number	Profix Number
Enter 40 days. (This includes	Electromagnetic	5.1	L 10/320	3 V	103329	V V/
line cutting)	- Magnetometer	4.6	101326	4 /	1013330	
For each additional survey: using the same grid:	- Other		10/326	5/1	11013331	
Enler 20 days (for each)	Geological		101326	6/	10/3332	1
	Geochemical		101324	57 VV	10/3333	V
Man Days	Geophysical	Days per Claim	101326	8/1	110/3334	
Complete reverse side and enter total(s) here	- Electromagnetic		101320	91	1013335	1/1/
,,	- Magnetometer		10/327	70//	10/3336	
	- Other		10/327		1126231	///
	Geological		10/32	72/	1126232	
	Geochemical		10132	73 VV	1126233	1///
Airborne Credits		Days per Claim	10/32	74 /	11126234	VV
Note: Special provisions credits do not	Electromagnetic		10133	24 V	RECE	NVED
apply to Airborne	Magnetometer		101332		/	
Surveys.	Other		101332		FEB 2	1990
			1	17	/	1
Total miles flown over cla			10183.		MINING LAN	DS SECTION
	corded Holder or Agent (Signature)	10/332	284 V	mining claims of this report of	covered 29
Certification Verifying Report of Work						
I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.						
Name and Address of Person Certifying						
FREDERIKK J. SWANSON BOX. 1918, HAILEYBURY						
ONTARIO. Telephone No. Date Certified By (Signature) (705)-672-5491 Aan 27, 89 Find Insurance						
Received Stamp						
For Office Use Only						
Total Days Date Recorded	Total Days Date Recorded (1) Mining Recorder					
Cr. Recorded	FEB 1 1990					
Jeb. 1/	90	Manager, Mir	Thurt I	τ		1.43am
281.3 Date Approved a	is necoroed provincia	· manager, Mil	ing railes '		1 ~	



Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines Mining Lands Section 880 Bay Street, 3rd Floor Toronto, Ontario M5S 1Z8

Telephone: (416) 965-4888

Your File: W9008-014 Our File: 2.13055

April 6, 1990

Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

Re: Notice of Intent dated March 29, 1990 for Geophysical

(Electromagnetic & Magnetometer) Survey submitted on Mining

Claims: L 1013263 et al in Robillard Township.

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

This approval replaces all previous approvals.

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

Yours sincerely,

W.R. Cowan

Provincial Manager, Mining Lands

Mines & Minerals Division

AS:pt Enclosure

cc: Mr. G.H. Ferguson
Mining and Lands Commissioner
Toronto, Ontario

Frederick J. Swanson Haileybury, Ontario

ONTAPIO OPOLOCICAL SURVEY
ASSESTA ENT FILES
OFFICE

APR 1 0 1990

RECEIVED

Resident Geologist Kirkland Lake, Ontario

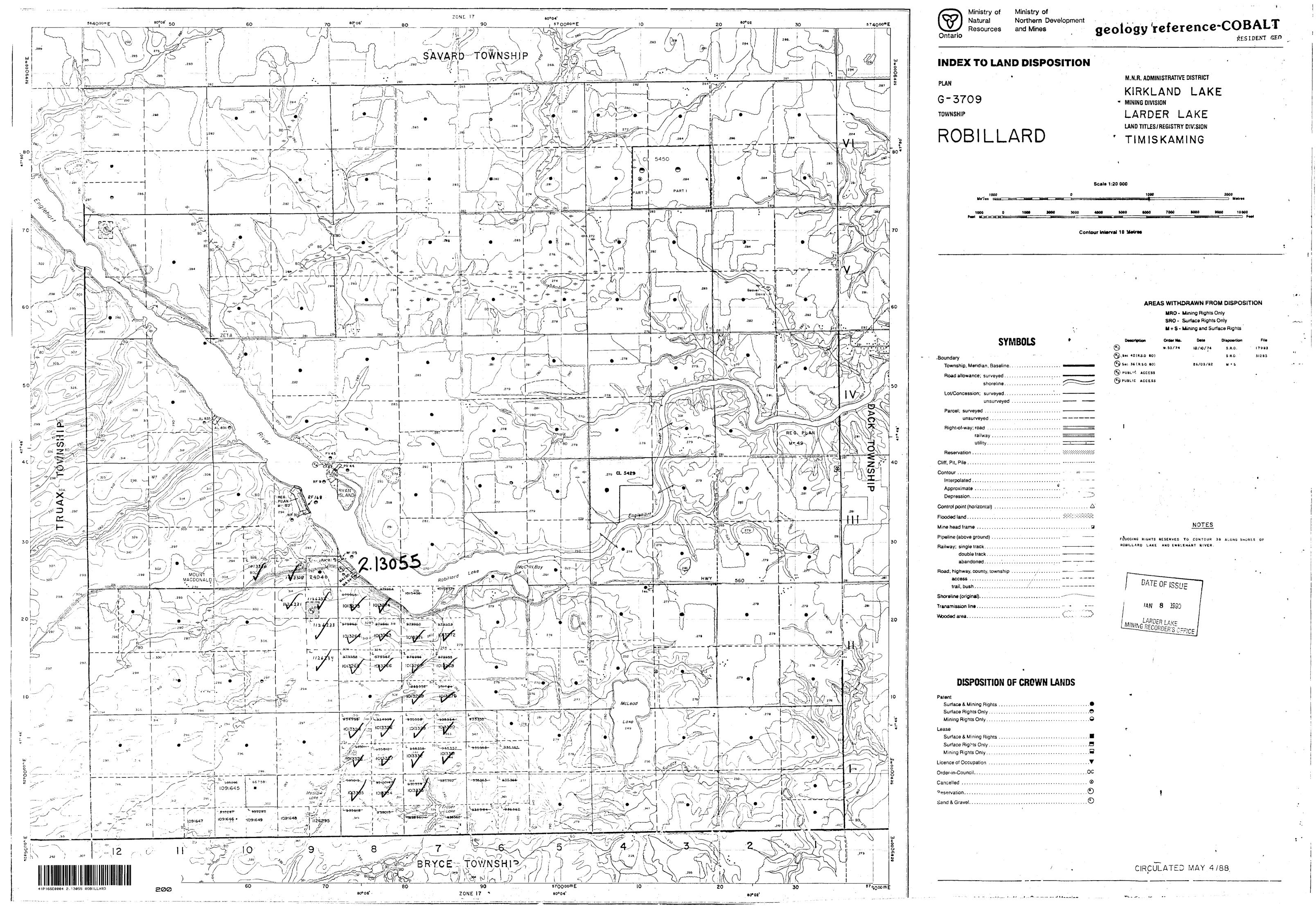


Technical Assessment Work Credits

	File
	2_13055
Date	
<u> March 29/1990</u>	Work No. W9008-014

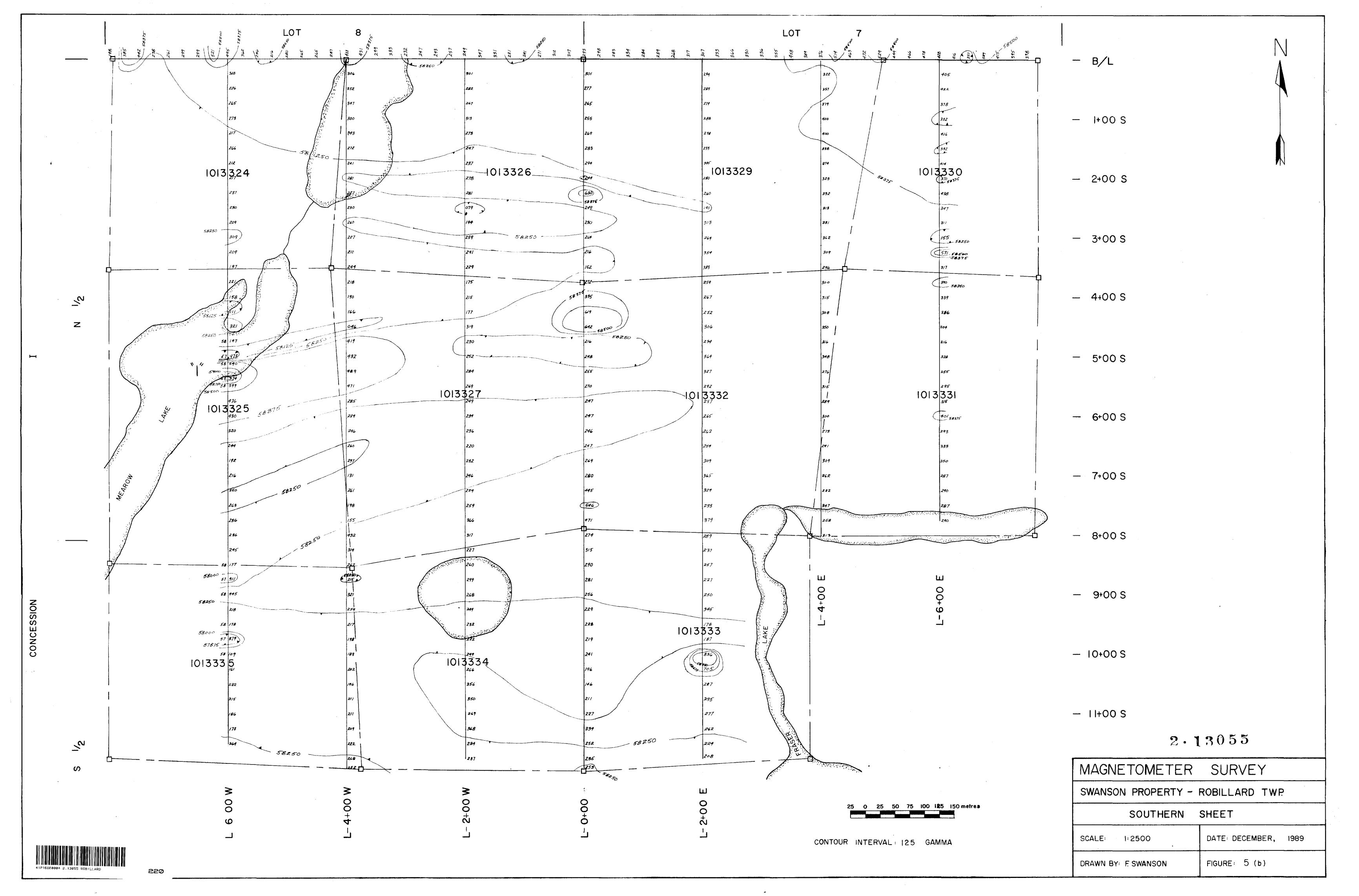
Township or Area Frederick J. Swan	son		
Robillard Townshi	p		
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed		
Geophysical Electromagnetic 5.1 days	L 1013263 to 274 incl.		
Magnetometer 4.6 days	1013324 to 336 incl.		
Radiometric days	1126231 to 234 incl.		
Induced polarization days	•		
Other days			
Section 77 (19) See "Mining Claims Assessed" column			
Geologicaldays			
Geochemicaldeys			
Man days Airborne			
Special provision 🗌 Ground 🛣			
Credits have been reduced because of partial coverage of claims. Credits have been reduced because of corrections to work dates and figures of applicant. Note: Credits on original worksheet filed under special provisions, this should have been reduced because of corrections to work dates and figures of applicant. Note: Credits on original worksheet filed under special provisions, this should have sent filed under the manday system that is why I have sent out this approval on a new work sheet.			
	•		
pecial credits under section 77 (16) for the following m	ining claims		
o credits have been allowed for the following mining claims			
not sufficiently covered by the survey insufficient technical data filed			

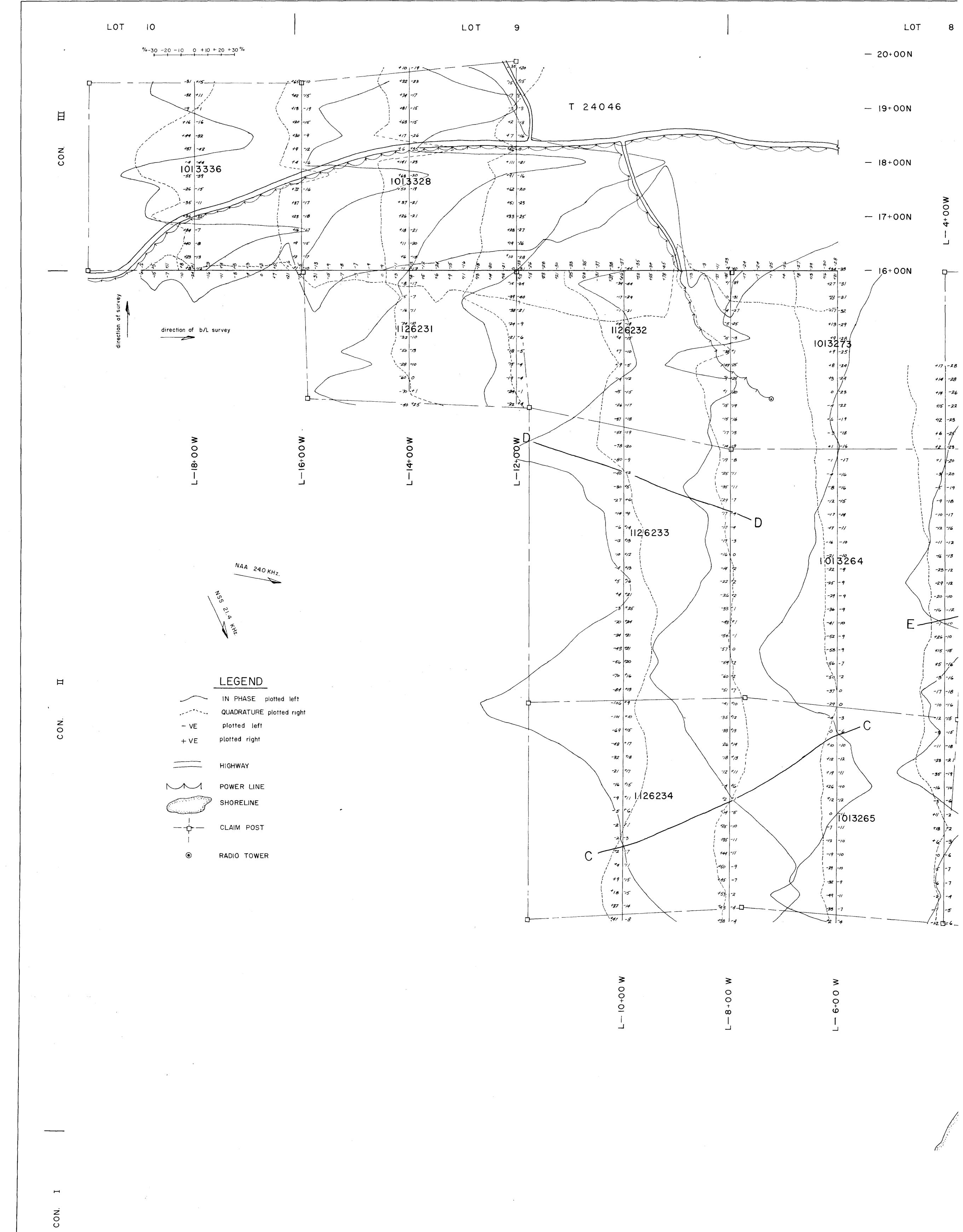
The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical +80; Geological +40; Geochemical +40; Section 77(19) +60,



LOT LOT 10 LOT - 20+00N - 19+00N CON. 101 33336 - 18+00N T 24046 - 17+00N 1126231 1126232 1013273 <u>LEGEND</u> 1126234 HIGHWAY 1013265 POWER LINE SHORELINE CLAIM POST RADIO TOWER MAGNETIC CONTOUR MAGNETIC LOW CONTOUR INTERVAL: 125 gamma

25 0 25 50 75 100 125 150 metres





41P16\$E0004 2.13055 ROBILLARD

25 0 25 50 75 100 i25 metres

