



42B09SE8593 2.14883 STRACHAN

010

**2. 14883**

EXPLORATION OF A FOUR CLAIM GROUP  
STRACHAN TWP., TIMMINS DISTRICT,  
ONTARIO

for

JAMES G. BURNS

by

J. B. Boniwell

Exploration Geophysical Consultant

October 23, 1991

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INTERNATIONAL  
CONSULTANTS LTD.



42B09SE8593 2.14883 STRACHAN

010C

- i -

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**EXCALIBUR  
INTERNATIONAL  
CONSULTANTS LTD.**

INTRODUCTION

A recent Ontario Geological Survey release of low level airborne em. and magnetics for the North Swayze/Montcalm region west of Timmins yielded an individualistic, road accessible anomaly in em. falling within a broadly favouring geology. This event was staked for itself.

A ground follow-up programme of outcrop mapping, magnetics and VLF has been completed over a grid of lines centred on the anomaly position. Results of this work are presented herein.



DESCRIPTION OF PROPERTY

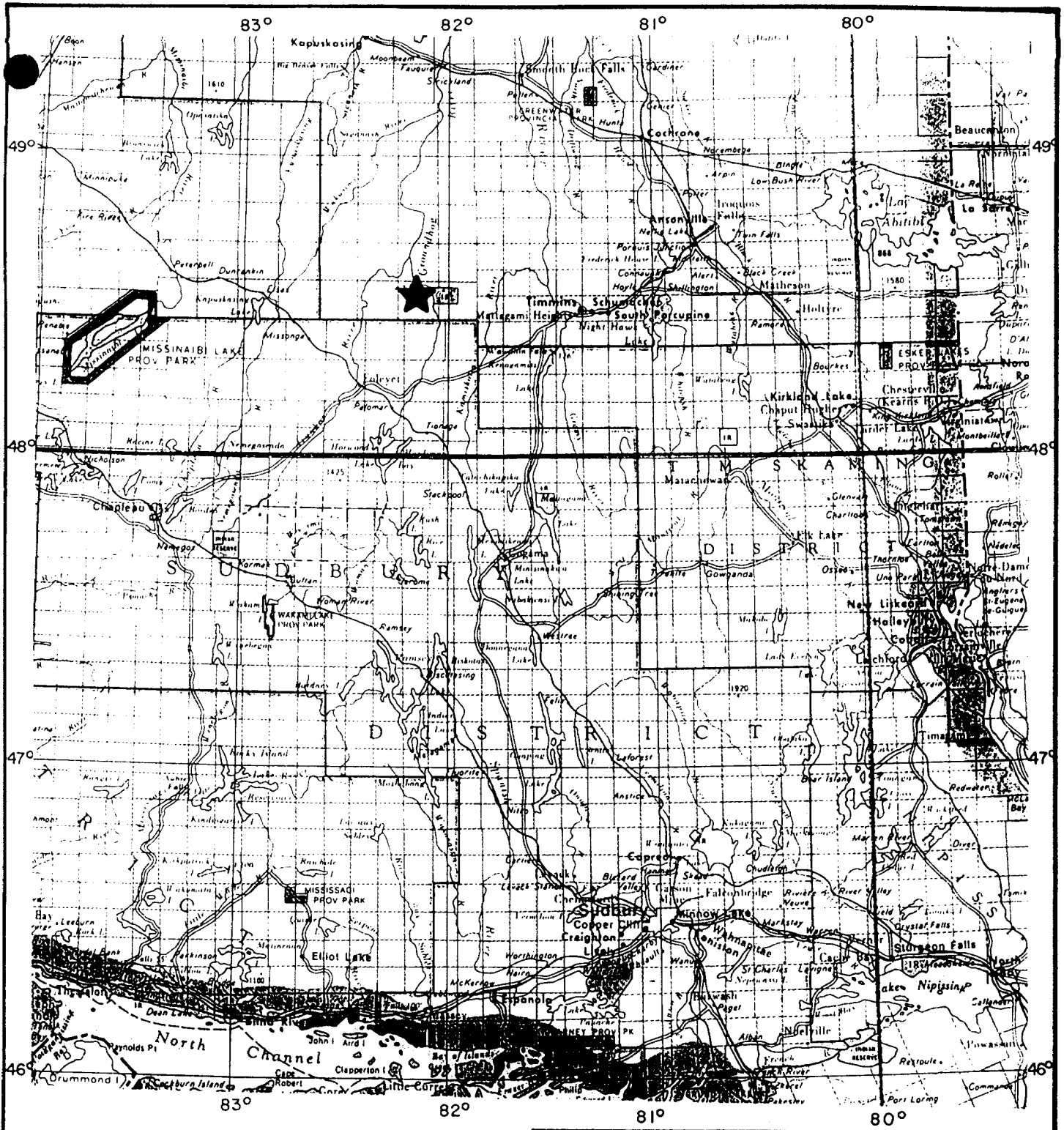
The property consists of 4 unpatented contiguous claims arranged in a square. These are identified as:

P 1158645 - 48 incl.

They locate in the west central portion of Strachan Township, Porcupine Mining Division, Ontario. The registered holder is James G. Burns of 190 Graye Cres., Timmins, Ontario, P4N 8K8.

Access is excellent; the claims straddle a back road which runs southwest from Groundhog River at a point where it bears E-W within the township. Here a road from Highway 101, 38 kms to the south follows the river. Highway 101 itself serves Timmins which lies approximately 65 kms to the northeast from the Groundhog River junction.





<b>J. G. BURNS</b>	
<b>STRACHAN TWP. CLAIMS</b>	
<b>Ontario</b>	
<b>LOCATION MAP</b>	
	PREP. BY: J. B. B.
	DRAWN BY: R. T. M.
	DATE: October 1991
	SCALE: 1: 2,000,000
<b>DWG. No. E.I.C. - 2389</b>	

PREVIOUS WORK

There is no record of work having ever been carried out on the above-described ground.

In 1971, Dome Exploration flew a fair portion of Strachan Township as part of a wider survey; however there is no indication that follow-up investigations if any, were extended into the present property area, nor indeed that the present target anomaly was picked up. The flying itself was performed by Geoterrex of Ottawa using time-domain em. equipment and a Geometrics G-803 proton precession magnetometer. Flight lines were oriented N65°W at 1/8 mile intervals.



DETAILS OF SURVEY

For the planned surveying, a grid of lines 100 m apart has been prepared oriented 140°, stations positioned on them every 20 m. A controlling base-line coinciding more or less with the approach road provided convenient access to the grid lines.

The magnetic survey was conducted with a proton precession magnetometer Geometrics model G816/826 with a sensitivity of 1 nT. Diurnal change was monitored by base station looping, a series of bases established along the BL for the purpose. Subsequent corrections yielded accuracies, it is estimated, of ±5 nT for the final posted values. Contouring of same has been undertaken at a primary contour interval of 100 nT increasing to 500 nT in the high end of the range (>59,000 nT).

The VLF traversing was effected with a Phoenix VLF-2 receiver tuned to the transmitter NAA (24.0 kHz) located at Cutler, Maine. This instrument measures the dip angle and the total horizontal field to sensitivities of 1° and 5% respectively. Observed values have been plotted directly in plan in a set of stacked profiles. The dip angles, as representing the in-phase component of the vertical field, have been (Fraser) filtered and the results contoured. As customary, only the positive values have



been taken into account. The primary contour interval used here is 10 units above the value +10. The zero contour is omitted; in its stead, the +5 contour is put in. This substitution minimizes background contributions to contour behaviour.





DISCUSSION OF RESULTS

A magnetic relief of up to 3,000 nT dominates the grid centre. There it patently defines a formational unit approximately 50 m wide which swings through a 45° arc from NE to E proceeding east. It remains open to the east, but evidently terminates against a gabbro at its southwest end.

This unit is taken to be a weak iron formation, and its noted strike behaviour is presumed to reflect a structural distortion of the host environment. To fortify this interpretation, a couple of lesser magnetic horizons occur to either side which more or less conform to the central unit in strike terms. By these, an axis of arch can be formulated, with a slight west of north heading as shown (Dwg. No. EIC-2388). Complicating the picture however are several magnetic elements which manifestly bid to strike N-S across the area. Although not fully defined, each of these can be attributed to late-stage (Matachewan) dykes since such are known to be present in the region. These dykes are of diabase and characteristically are magnetic.

In contrast, the mafic volcanics and the gabbros which constitute bedrock geology as seen in outcrop are largely non-magnetic. The volcanics particularly are quiet; this infers they



are tholeiitic basalts in the main. The gabbros are more irregular in their magnetic expressions, hence more unpredictable, but as such are being typical. No great significance is seen to attach to their occurrence.

What provides focus to the area are the VLF results. With all rock outcrop confined to the grid's southwest quarter, mineral possibilities reside with what VLF can supply in other sectors, especially what it can furnish to establish and detail the target airborne em. (AEM) anomaly in the covered domain. As it turns out, a VLF anomaly system has been detected which follows, sometimes closely, the northern contact of the supposed iron formation unit. At two places along its 500 m strike length, response strengthens locally, and given the geographic positioning of the more westerly of the two, it would seem this particular peaking reflects the AEM source.

As recorded, the airborne response is of very fair quality (Channel 8, Geotem System); thus it is not out of order to favour a sulphide, or graphite, incidence at this stratigraphic location. If dips are to the southeast as both outcrop and magnetics provide, and the beds are not over-turned, then this VLF-projected mineral-ized horizon occurs at the basal contact of the magnetic unit. This holds interest. It is a likely setting for gold, perhaps base metals. In both instances, chances are improved

by the potential dilation to be associated with the axis of arch, or more specifically, with the flanks to same. Notably, the two VLF peakings on the conductive horizon occur on the two opposing flanks more or less as prescribed. This appears significant. However for base metals, an intrusive peridotite sill instead of an iron formation would seem to offer more promise in the way of grade mineralization.

There are other VLF anomaly axes in the area; some are sub-parallel following the formational grain. These are rather commonplace events reflecting the customary resistivity variations across any bedded sequence. One, in the grid north, does not quite fit; it is too linear. For it, an ENE fault is postulated.

Finally, there are those odd VLF indications showing tendencies to strike N-S. These are weak and not fully substantiated, but their existence in the area comes as no surprise given the noted dyking. Such features are perforce cross-structural in nature. They appear tenuous in the data largely because of their poor orientation with respect to the primary field direction.



CONCLUSIONS AND RECOMMENDATIONS

It is concluded that a weak iron formation has been defined across the grid area whose basal contact setting hosts a conductive horizon. These events lie under cover beyond outcrop exposure and designation.

Possibilities in gold are considered premier, and worth a test. The conductive component is deemed due to sulphides, or graphite, or a mixture of both in a mafic volcanic environment. A fault structure bearing ESE is projected to transect the immediate vicinity of that section on the horizon which particularly correlates with the AEM response. A local dilation due to arching of the bedded rocks is believed a potentiality here.

It is recommended therefore that this emergent situation be drilled. A suitable hole for the purpose would be:

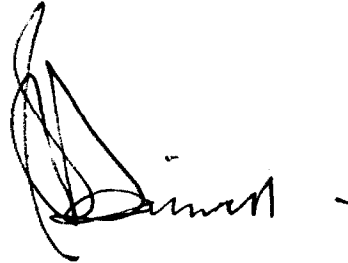
DDH #B-1: Collar at 60S/600W

to be drilled grid N at -45° for 120 m

Results from this testing naturally would dictate future action. Specifically, if interesting mineralization were found at this



site, then the second VLF centre at 150S/400N would immediately become a target for follow-up.



JBB:sb

J. B. Boniwell

October 23, 1991

Exploration Geophysical Consultant



APPENDIX

ASSESSMENT INFORMATION

Dates of survey : 21st Sept. - 1st Oct. '91  
Prepared lines : 6.73 kms  
Magnetic stations: 280 (5.56 kms)  
VLF stations : 268 (5.20 kms)

Field operations : J. G. Burns, M. Kearney, Timmins, Ont.  
Interpretation, J. B. Boniwell  
reporting : Excalibur International Consultants Ltd.  
Mississauga, Ontario.



File \_\_\_\_\_

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) Magnetic, VLF
Township or Area Strachan Twp.
Claim Holder(s) J. G. Burns
190 Graye Cres., Timmins, Ont.
Survey Company J. G. Burns
Author of Report J. B. Boniwell
Address of Author 10 Hurontario St., Mississ., Ont. L5G 3G7
Covering Dates of Survey 21st Sept. - 1st Oct. '91
(linecutting to office)
Total Miles of Line Cut 6.73 kms

MINING CLAIMS TRAVERSED
List numerically

Table with columns for prefix and number. Contains entries: P 1158645, 1158646, 1158647, 1158648.

SPECIAL PROVISIONS
CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.
ENTER 20 days for each additional survey using same grid.

Table with columns: Geophysical, Geological, Geochemical. Rows: -Electromagnetic (40), -Magnetometer (20), -Radiometric, -Other, Geological (20), Geochemical.

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

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

DATE: \_\_\_\_\_ SIGNATURE: [Signature]
Author of Report or Agent

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

Previous Surveys

Table with columns: File No., Type, Date, Claim Holder.

TOTAL CLAIMS \_\_\_\_\_

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 283 mag. 268 VLF Number of Readings 280 mag., 268 VLF

Station interval 20 m mag.; 20 m VLF Line spacing 100 m

Profile scale 1 cm = 10° dip,, 25% field strength

Contour interval 100 nT <1000 nT mag., +5, 10>10 units VLF

MAGNETIC

Instrument Geometrics G816/826

Accuracy - Scale constant 1 nT

Diurnal correction method base station looping

Base Station check-in interval (hours) 2 hrs.

Base Station location and value 950W/BL, 58,500 nT

ELECTROMAGNETIC

Instrument Phoenix VLF-2

Coil configuration N/A

Coil separation N/A

Accuracy 1° dip angle, 5% total field

Method:  Fixed transmitter  Shoot back  In line  Parallel line

Frequency NAA (24.0 kHz) (specify V.L.F. station)

Parameters measured dip angle of resultant field, horizontal field strength

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





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GEOLOGY OF A FOUR CLAIM GROUP  
STRACHAN TOWNSHIP  
PORCUPINE MINING DIVISION  
ONTARIO

NTS 42 B/9

Claim Numbers

1158645 to 1158648 Inclusive

James G. Burns

December 16, 1991

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JAN 26 1993

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## INTRODUCTION

### Property, Location and Access

A group of four claims numbered P-1158645 to 1158648 inclusive and situated in the northwest quadrant of Strachan Township approximately 63 km west northwest of Timmins comprise the property. It straddles the Mallette Inc. all weather, area access road that joins Highway 101 65 km to the southeast at a distance of 13 km west of the Timmins city centre.

### Previous Work

A check of the assessment records in Timmins revealed that no ground exploration work has been filed for the immediate area of the claim group. As well, no evidence of previous claim staking, gridding, etc. was noted during the course of the present programme.

Dome Exploration had, in 1971, contracted Geoterrex to fly an area that covered most of Strachan Township at 1/8th mile line intervals on lines oriented at N65°W (Wagg, 1971).

Equipment used were a time-domain em unit and a Geometrics G-803 magnetometer. Only magnetic data were submitted for assessment for claims held. There is no mention of the em results, nor if any ground follow-up work was recommended or performed.

The most recent government data consist of Geological Report 78 and map 2182, scale 1:31,680 (Bennett, 1969), and the results of an airborne em and magnetometer survey for the North Swayze-Montcalm area conducted in 1989 and released in 1990 (OGS, 1990).

#### 1991 Programme

The four claims were staked in February 1991 to cover a single line, 8 channel Geotem em anomaly that was detected in the government survey (Figure 1). Ground magnetometer, VLF em & geological surveys were conducted in an effort to locate & define the airborne anomaly, and to gain some insight into the local geological setting.

A flagged grid was constructed over the claims. Cross

234W

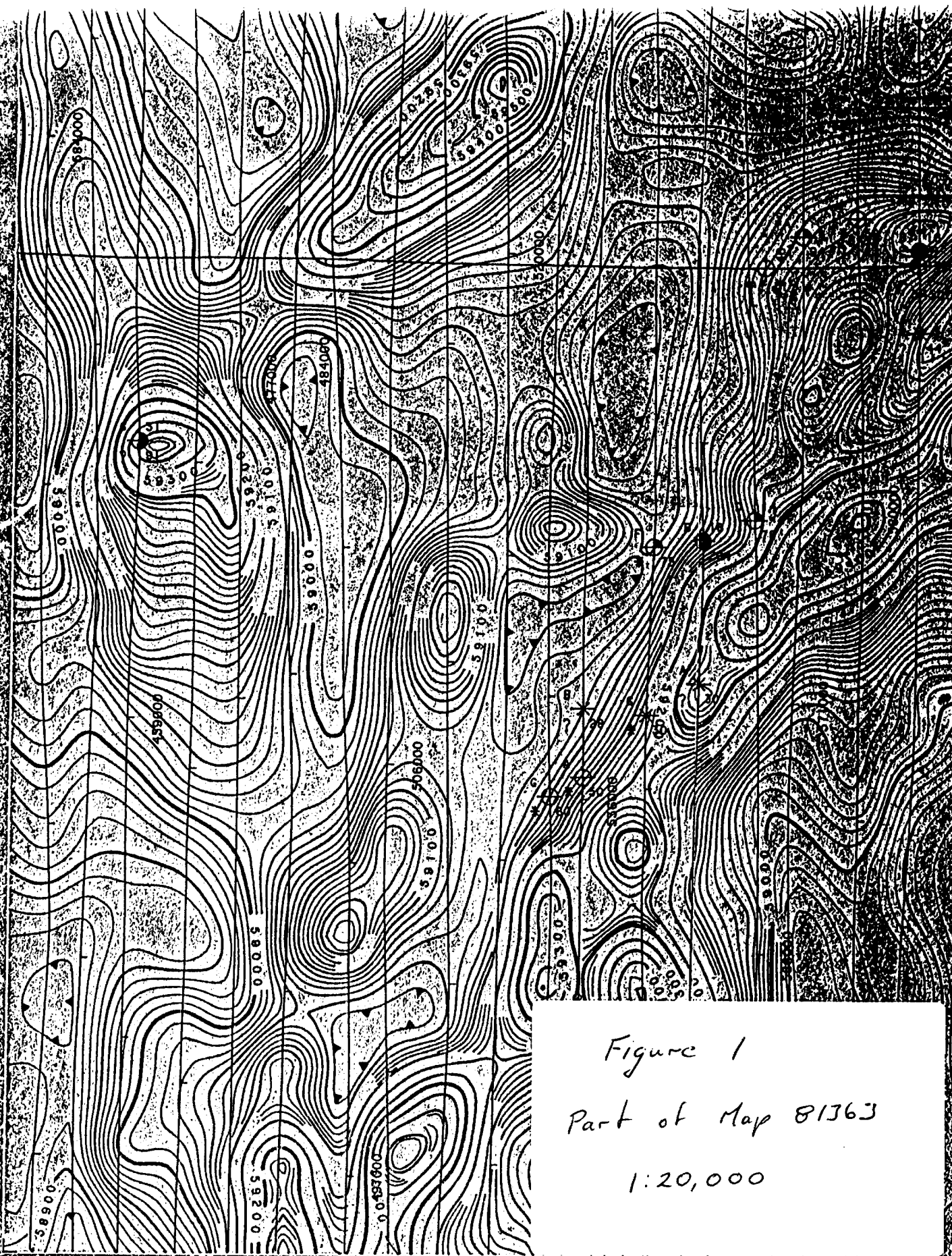


Figure 1  
Part of Map 81363  
1:20,000

96N  
97N  
98S  
99N  
100S  
101N  
102/2S  
103N  
104S  
105N  
106S  
107N  
108S  
109N  
110/2S  
111N  
112S  
113N

lines 100m apart with 20m stations were established from a base line oriented at 050°/230° along the access road right of way. Results of the geophysical surveys have been reported on by Boniwell.

## GEOLOGY

### Regional Geology

Bennett mapped Strachan Twp. for the Ontario Department of Mines in 1965. Granitic rocks dominate the bedrock geology. The eastern half of the township is underlain by granite / quartz diorite that is part of a large batholith that extends over several townships. To the west are two granite stocks, each 5 to 6 km in diameter. Sandwiched in between is a strip of mafic volcanics 1 to 5 km wide that generally trends NNE-SSW. Locally the trend is more east-west as a result of the intrusions and/or folds.

Outcrops of gabbro occur in the north central part of the township. These are part of a large mafic intrusive complex

that occupies approximately 1/3 of Montcalm Twp.

A swarm of NNW striking Matchewan diabase dykes cut all rock types in the area.

#### Property Geology

All rock exposures are located in the southwest portion of the claim group mainly on claim 1158647 (Figure 2). Basalt as both massive and pillowed flows and with minor amounts of interflow sediment is the dominant rock type. It has been intruded by gabbro and cut by granitic dykes.

The basalts are fine grained, dark green in colour & faintly foliated. They strike east-west & dip steeply south at 70° to 80° . Where seen the pillows are stretched, and no top determinations were possible. Interflow sediments are few, and poorly exposed. They appear to be mainly siltstones with beds 1/2 to 1 cm thick.

The gabbro is massive, fresh in appearance, and composed of 50% mafic minerals & 50% greenish saussuritized feldspars.

It is strongly magnetic. Disseminated pyrite is common in amounts up to 1/2%.

An approximate 2m thick granitic dyke striking 115 & cross cutting basalt was noted near the west claim boundary.

#### Assays

Six rock samples were taken for analysis. Two, ST-1 & 3, were of narrow quartz veins hosted by basalt. Each assayed less than the detection limit of 1 ppb Au.

Sample ST-5 of carbonatized basalt that contained minor amounts of sulphides assayed only 2 ppb Au. However, both the Cu & Zn content were anomalous at 180 & 300 ppm respectively.

The remaining three samples, ST-2, 4 & 6, were of gabbro. Each contained approximately 1/2% pyrite, and were assayed for both their total & sulphide Ni contents. All values were below the detection limit of 0.01% Ni.

Assay results are appended.



## DISCUSSION & RECOMMENDATIONS

The airborne em anomaly was located, delineated & noted to lie on the north flank of a magnetic high. Unfortunately, the anomaly is overburden covered and very close to the road. Boniwell postulates the source of the anomaly to be sulphide mineralization +/- graphite at or near the base of a sulphide iron formation, and as such has the potential to be auriferous.

Alternatively, if the magnetic high is related to an ultramafic sill then the anomaly could represent base metal (Cu Ni) mineralization. Such a scenario is realistic since in Montcalm Township to the north a deposit of 4,500,000 tons grading 1.42% Ni & 0.66% Cu is associated with similar mafic rocks.

The drill hole as spotted by Boniwell should be drilled.

*James Burns*

## REFERENCES

Bennett, G

1969 Geology of the Belford-Strachan Area, District of  
Cochrane; Ontario Department of Mines, Geological Report  
78 together with Geological Map 2182, scale 1:31,680 or  
1"=1mile.

Boniwell, J.B.

1991 Exploration of a Four Claim Group, Strachan Twp., Timmins  
District, Ontario; Excalibur International Consultants  
Ltd., unpublished assessment report.

OGS

1990 Airborne Electromagnetic & Total Intensity Magnetic  
Survey, North Swayze-Montcalm Area; Ontario Geological  
Survey, Map 81363, scale 1:20,000.

Wagg, D.M.

1971 Report on a Magnetometer Survey of Part of Strachan  
Township, Northeastern Ontario for Dome Exploration  
(Canada) Limited; Geoterrex Limited, unpublished  
assessment report.

APPENDIX I

Assay Results



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
5175 Timberlea Blvd., Mississauga,  
Ontario, Canada L4W 2S3  
PHONE: 416-624-2806

To: BURNS, JAMES

190 GRAYE CRESCENT  
TIMMINS, ON  
P4N 8K8

A9123110

Comments: ATTN: JAMES BURNS

CERTIFICATE

A9123110

BURNS, JAMES

Project:  
P.O. #:

Samples submitted to our lab in Rouyn, PQ.  
This report was printed on 21-OCT-91.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	3	Assay ring to approx 150 mesh Crush and split (0-10 pounds)
294	3	

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
321	3	Ni %: HClO <sub>4</sub> -HNO <sub>3</sub> digestion	AAS	0.01	100.0
431	3	Ni sulf %: Ni(T)-Ni(oxide)=Ni(s)	CALCULATION	0.01	100.0



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
5175 Timberlea Blvd., Mississauga,  
Ontario, Canada L4W 2S3  
PHONE: 416-624-2806

To: BURNS, JAMES

190 GRAYE CRESCENT  
TIMMINS, ON  
P4N 8K8

Page Number :1  
Total Pages :1  
Certificate Date: 21-OCT-91  
Invoice No. 23110  
P.O. Number

Project :  
Comments: ATTN: JAMES BURNS

## CERTIFICATE OF ANALYSIS A9123110

SAMPLE	PREP CODE		Ni %	Ni sul %									
ST-2	208	294	< 0.01	< 0.01									
ST-4	208	294	< 0.01	< 0.01									
ST-6	208	294	< 0.01	< 0.01									

CERTIFICATION:

*Ahnstie*



# Laboratoires Chemex Ltee.

Essayeurs \* Geochimistes \* Chimistes Analytique  
175 Boul. Industriel C.P. 284, Rouyn,  
Quebec, Canada J9X 5C3  
PHONE: 819-797-1922

To: BURNS, JAMES

190 GRAYE CRESCENT  
TIMMINS, ON  
P4N 8K8

A9123109

Comments: ATTN: JAMES BURNS

CERTIFICATE

A9123109

BURNS, JAMES

Project:  
P.O. #:

Samples submitted to our lab in Rouyn, PQ.  
This report was printed on 18-OCT-91.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	3	Geochem ring to approx 150 mesh
294	3	Crush and split (0-10 pounds)
238	1	NITRIC-AQUA REGIA DIGESTION

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
993	3	Au ppb: Fuse 30 g sample	FA-NAA	1	10000
13	1	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
6	1	Ag ppm: HNO3-aqua regia digest	AAS-BKGD CORR	0.2	100.0
2	1	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
4	1	Pb ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
5	1	Zn ppm: HNO3-aqua regia digest	AAS	1	10000



# Laboratoires Chemex Ltee.

Essayeurs \* Geochimistes \* Chimistes Analytique  
175 Boul. Industriel C.P. 284, Rouyn,  
Quebec, Canada J9X 5C3  
PHONE: 819-797-1922

To: BURNS, JAMES  
190 GRAYE CRESCENT  
TIMMINS, ON  
P4N 8K8

Page Number : 1  
Total Pages : 1  
Certificate Date: 18-OCT-91  
Invoice No. J23109  
P.O. Number

Project :  
Comments: ATTN: JAMES BURNS

## CERTIFICATE OF ANALYSIS

A9123109

SAMPLE	PREP CODE		Au NAA ppb	As ppm	Ag ppm Aqua R	Cu ppm	Pb ppm	Zn ppm				
ST-1	205	294	< 1	-----	-----	-----	-----	-----				
ST-3	205	294	< 1	-----	-----	-----	-----	-----				
ST-5	205	294	2	< 1	1.3	180	6	300				

CERTIFICATION: Janet Buchler



42809SE8593 2.14883 STRACHAN

900

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

Geoscience Approvals Section  
Mining Lands Branch  
Willet Green Miller Centre  
933 Ramsey Lake Road, 6th Floor  
Sudbury, Ontario  
P3E 6B5

Telephone: (705) 670-5853  
Fax: (705) 670-5863

Our File: 2.14883  
Transaction #: W9360.00002

February 23, 1993

Mining Recorder  
Ministry of Northern Development  
and Mines  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Mr. White:

**RE: Approval of Assessment Work on mining claims P 1158645 et al. in Strachan Township.**

The assessment work credits listed on the above mentioned report of work have been approved as of February 11, 1993. The work has been approved under sections 12 and 14 of the Mining Act Regulations.

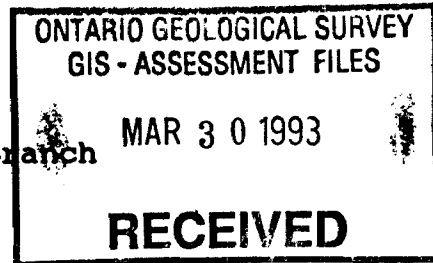
If you have any questions regarding this matter, please contact Dale Messenger at (705) 670-5858.

Yours sincerely,

Mark Hall  
(Acting) Senior Manager, Mining Lands Branch  
Mines and Minerals Division

DEM/jl  
Enclosures:

cc: Assessment Files Office  
Toronto, Ontario



Resident Geologist  
Timmins, Ontario



Report of Work Conducted After Recording Claim

Mining Act

Transaction Number  
W9360.00002

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

2.14883

- Instructions:
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
  - A separate copy of this form must be completed for each Work Group.
  - Technical reports and maps must accompany this form in duplicate.
  - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) James Burns	Client No. 115825
Address 190 Graye Cr, Timmins, Ont. P4N 8K8	Telephone No. 705-268-4660
Mining Division Porcupine	Township/Area Strachan
M or G Plan No.	
Date Work Performed From: Sept. 21, 22, 24, 28, 29, + Oct. 1, 3 + Dec 16 / 91	

Work Performed (Check One Work Group Only)

Work Group	Type
1 Geotechnical Survey	Geological, Geophysical. EM/MAG
Physical Work, including Drilling	
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

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Total Assessment Work Claimed on the Attached Statement of Costs \$ 3037-

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
James Burns	as above
J. B. Boniwell	10 Hurontario St. Mississauga, Ont. L5G 3G7

RECORDED

JAN 04 1993

(attach a schedule if necessary)

Certification of Beneficial Interest \* See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date	Recorded Holder or Agent (Signature)
--	------	--------------------------------------

Certification of Work Report

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

Name and Address of Person Certifying James Burns as above	Telephone No. 705-268-4660	Date Jan 4/93	Certified By (Signature) James Burns
---	-------------------------------	------------------	---

For Office Use Only

Total Value Cr. Recorded \$3,037	Date Recorded JAN. 4/93	Mining Recorder [Signature]
	Deemed Approval Date APR. 5/93	Date Approved
	Date Notice for Amendments Sent	

RECEIVED  
"C"  
JAN 7 1993  
SLD





Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des mines

Statement of Costs  
for Assessment Credit

État des coûts aux fins  
du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction  
**W9360.00002**

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	400 -	
	Field Supervision Supervision sur le terrain	800 -	1200
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type Excalibur Geophysical interp	1280 -	
	Assays	127 -	
			1407
Supplies Used Fournitures utilisées	Type		
	RECEIVED		
	JAN 26 1993		
Equipment Rental Location de matériel	Type MINING LANDS BRANCH		
Total Direct Costs Total des coûts directs			2607

2. Indirect Costs/Coûts indirects

\*\* Note: When claiming Rehabilitation work indirect costs are not allowable as assessment work.  
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type milage	344 -	
	gas	68 -	
	shipping	9 -	
	communications	9 -	
			430
Food and Lodging Nourriture et hébergement			-
Mobilization and Demobilization Mobilisation et démobilisation			-
Sub Total of Indirect Costs Total partiel des coûts indirects			430
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excedant pas 20 % des coûts directs)			
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)			3037
Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	× 0.50 =

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
	× 0,50 =

Certification Verifying Statement of Costs

I hereby certify:  
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Recorded holder I am authorized  
(Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :  
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de \_\_\_\_\_ je suis autorisé  
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature Janis Kern Date Jan 4/93

TRIM LINE

THE TOWNSHIP OF  
**STRACHAN**  
 DISTRICT OF COCHRANE  
 PORCUPINE MINING DIVISION  
 SCALE: 1-INCH = 40 CHAINS

**LEGEND**

PATENTED LAND	⊙
CROWN LAND SALE	⊙
LEASES	⊙
LOCATED LAND	⊙
LICENSE OF OCCUPATION	⊙
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	—
IMPROVED ROADS	—
KING'S HIGHWAYS	—
RAILWAYS	—
POWER LINES	—
MARSH OR MUSKEG	—
MINES	*

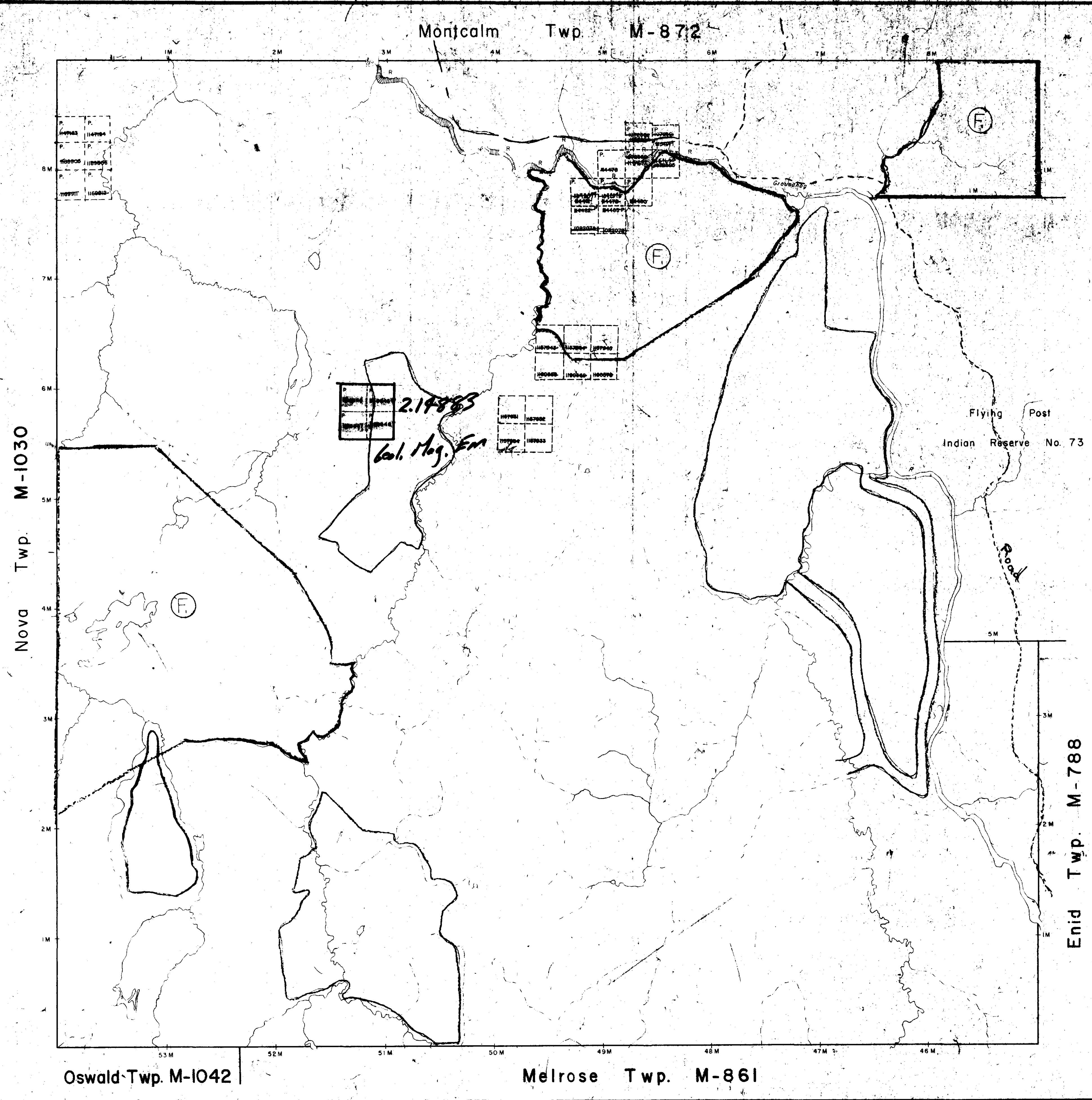
**NOTES**

400' Surface Rights Reservation around all lakes & rivers.

⊙ THIS TWP. IS SUBJECT TO FOREST ACTIVITIES IN 1990. FURTHER INFORMATION AVAILABLE ON FILE.

**RECEIVED**  
 JAN 21 1993

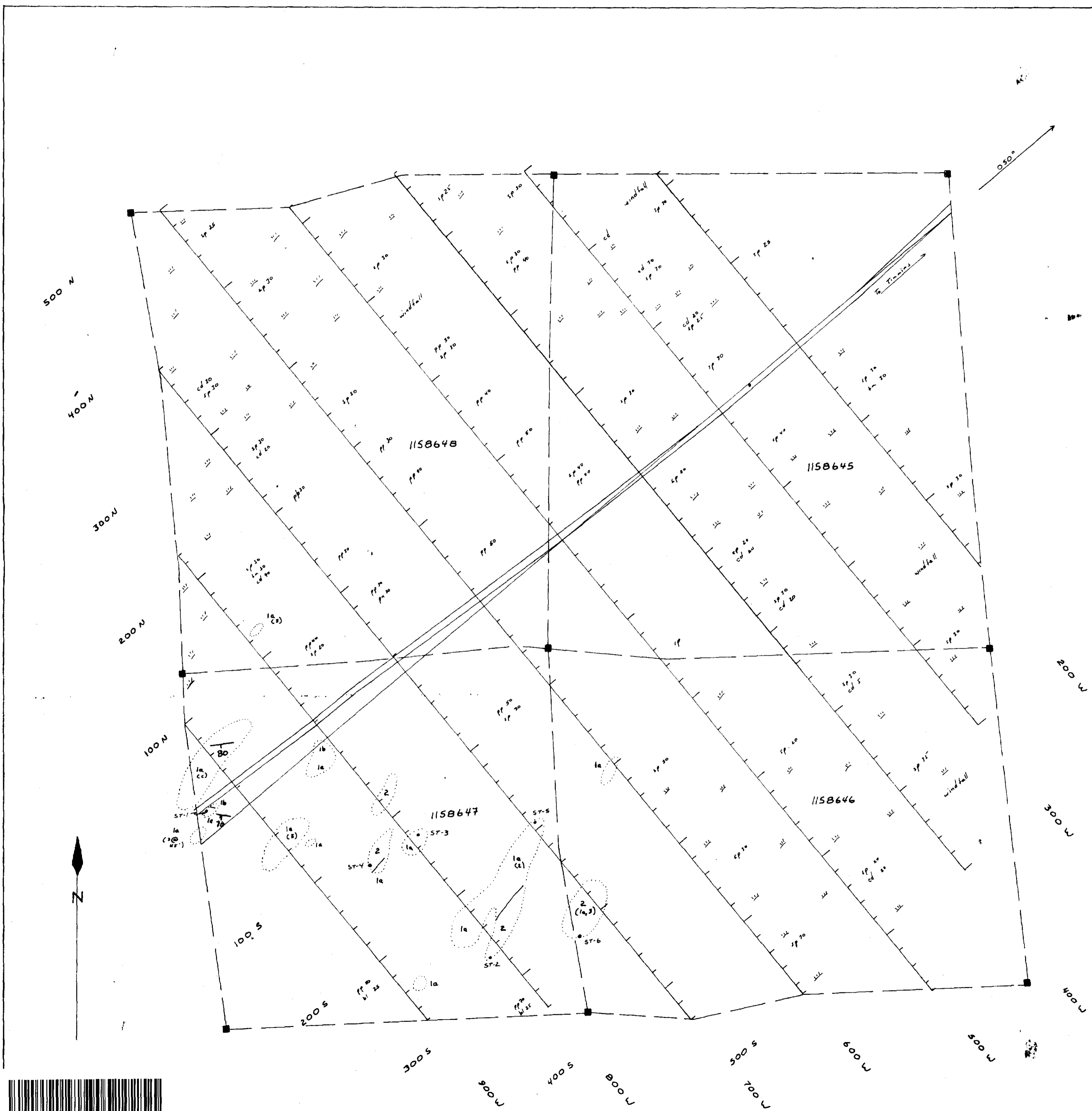
Rec. File No.  
 PLAN NO. **M-1142**  
 ONTARIO  
 MINISTRY OF NATURAL RESOURCES  
 SURVEYS AND MAPPING BRANCH



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

SP11-M  
 TWP  
 NAHCAST2  
 SP11-M

SP11-M  
 TWP  
 NAHCAST2  
 SP11-M



LEGEND

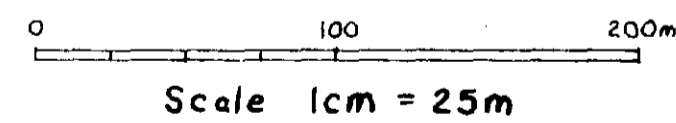
Geology

- 3) felsic Intrusive (Granite Dyke)
- 2) Gabbro
- 1) Mafic Volcanic
  - a) massive
  - b) pillowed
  - c) interflow sediments

• ST-1 Sample location + number

Tree Types with max diameter in cm.

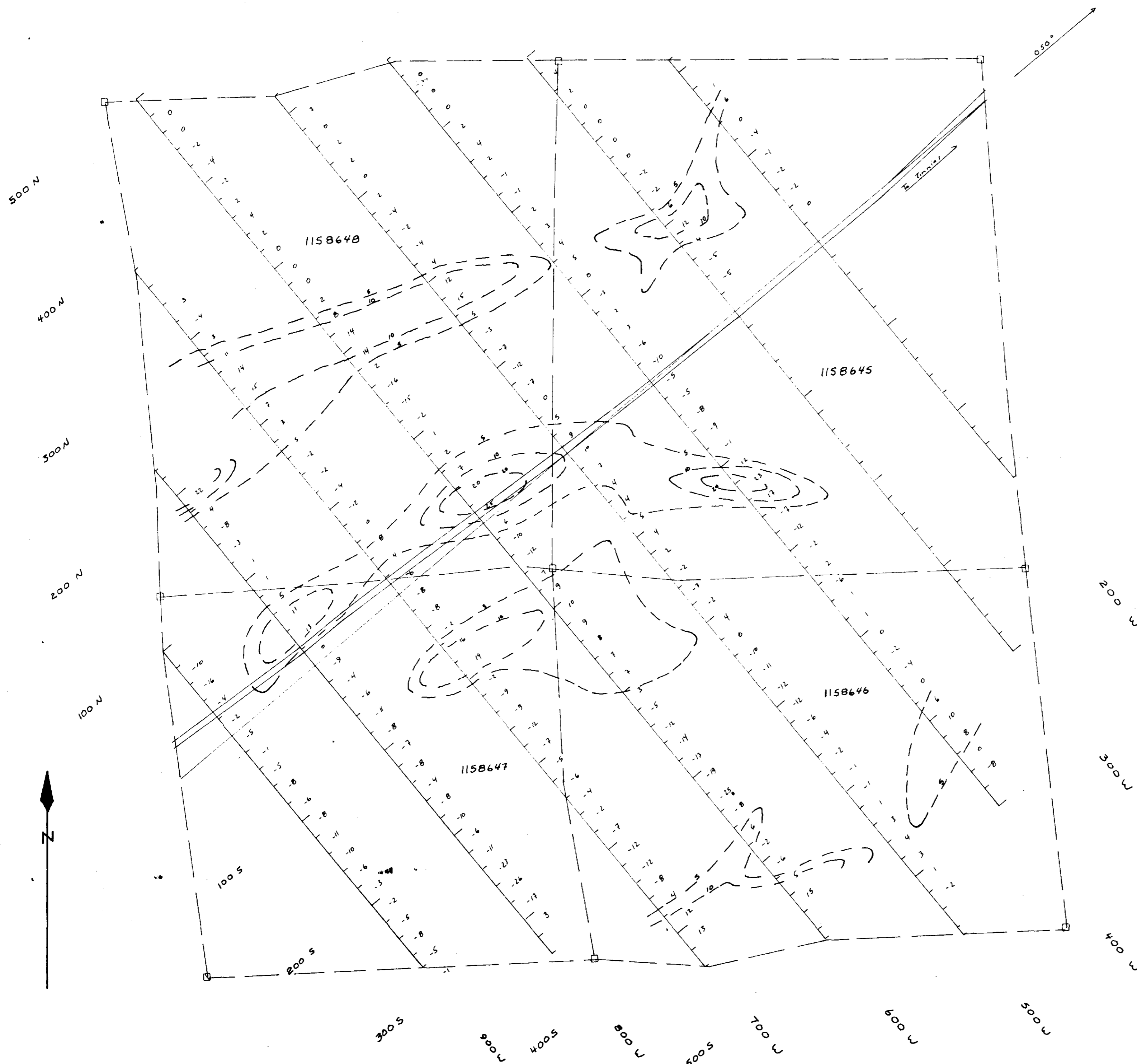
- sp spruce
- pp poplar
- cd cedar
- bi balsam
- tm tamarack



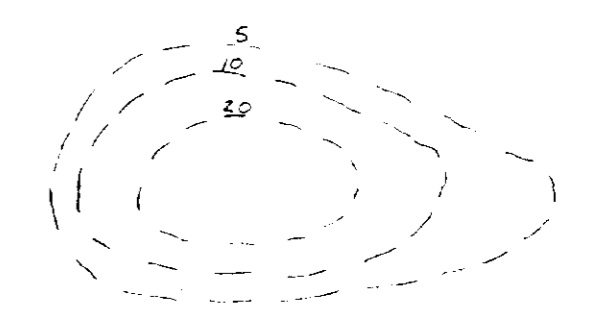
2.14883

J. G. BURNS	
STRACHAN TWP. CLAIMS 42 B/9	
PLAN OF OUTCROP GEOLOGY	
October 1991	E.P.C. No. 2387
1:2500	Figure 2

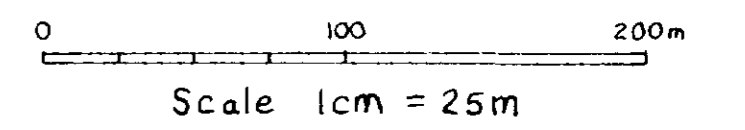




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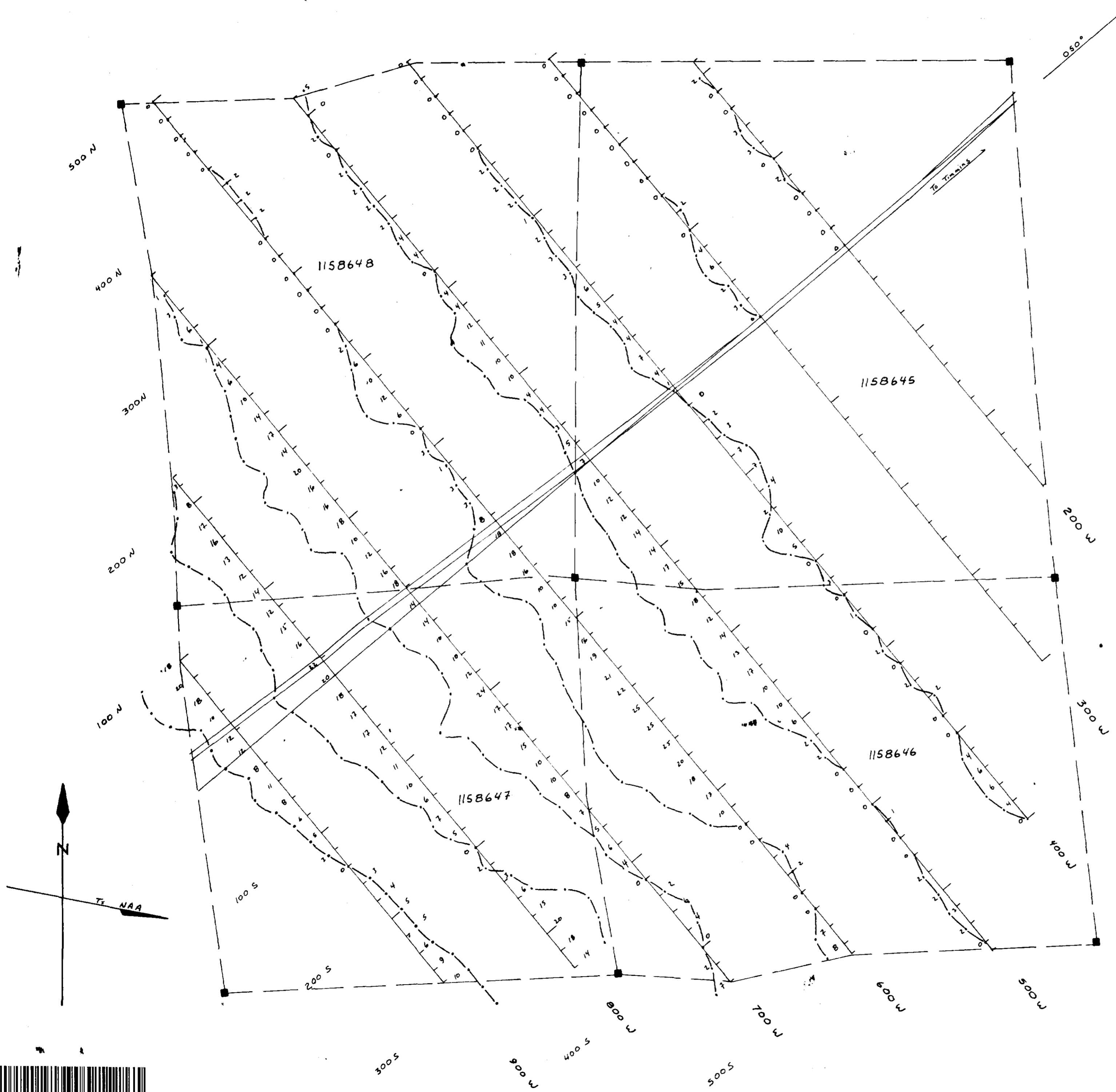
Contours 5, 10, 20, etc



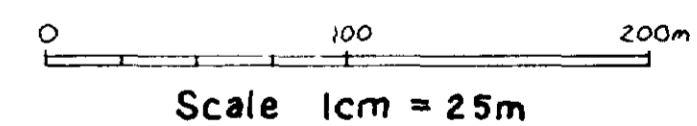
**2.14883**

J. G. BURNS	
STRACHAN TWP. CLAIMS	
42 B/9	
VLF FILTERED IN-PHASE CONTOURS	
October 1991	E.I.C. No. 2386
1:2500	





**LEGEND**



**2.14883**

J. G. BURNS	
STRACHAN TWP CLAIMS	
42 B/9	
STACKED VLF PROFILES	
NAA	
October 1991	E.I.C. No 2385
1:2500	





LEGEND

- Contours ——— 1000's
- - - - - 500's
- . . . . . 100's

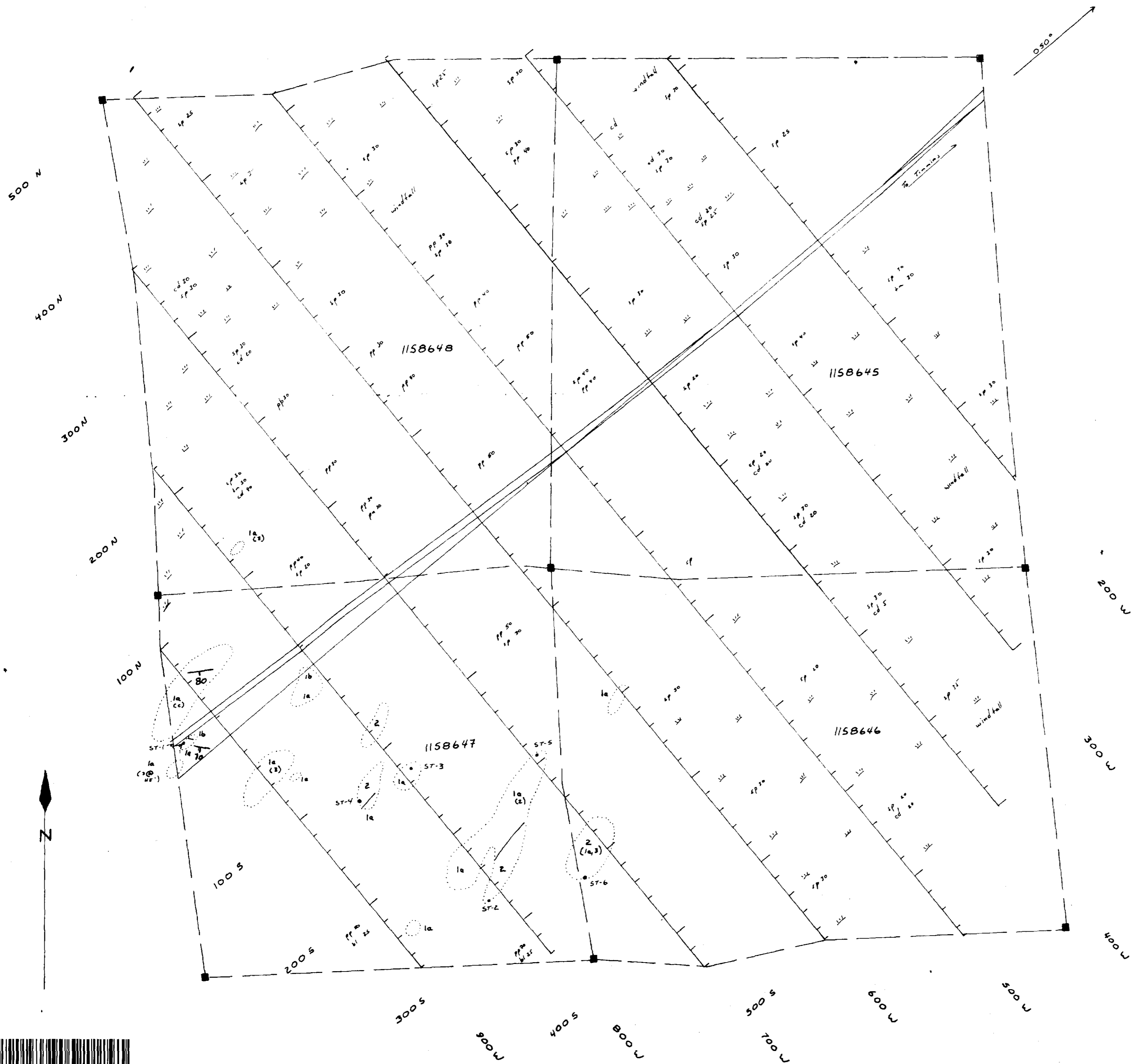
0 100 200m  
Scale 1cm = 25m

**2.14883**

J. G. BURNS	
STRACHAN TWP. CLAIMS	
42 B/9	
TOTAL FIELD MAGNETIC	
CONTOURS	
October 1991	E.I.C. No. 2384
1:2500	







**LEGEND**

**Geology**

- 3) Felsic Intrusive  
(Granite Dyke)
- 2) Gabbro
- 1) Mafic Volcanic
  - a) massive
  - b) pillowed
  - c) interflow sediments

• ST-1 Sample location + number

**Tree Types with max diameter in cm.**

- sp spruce
- pp poplar
- cd cedar
- bl balsam
- tm tamarack

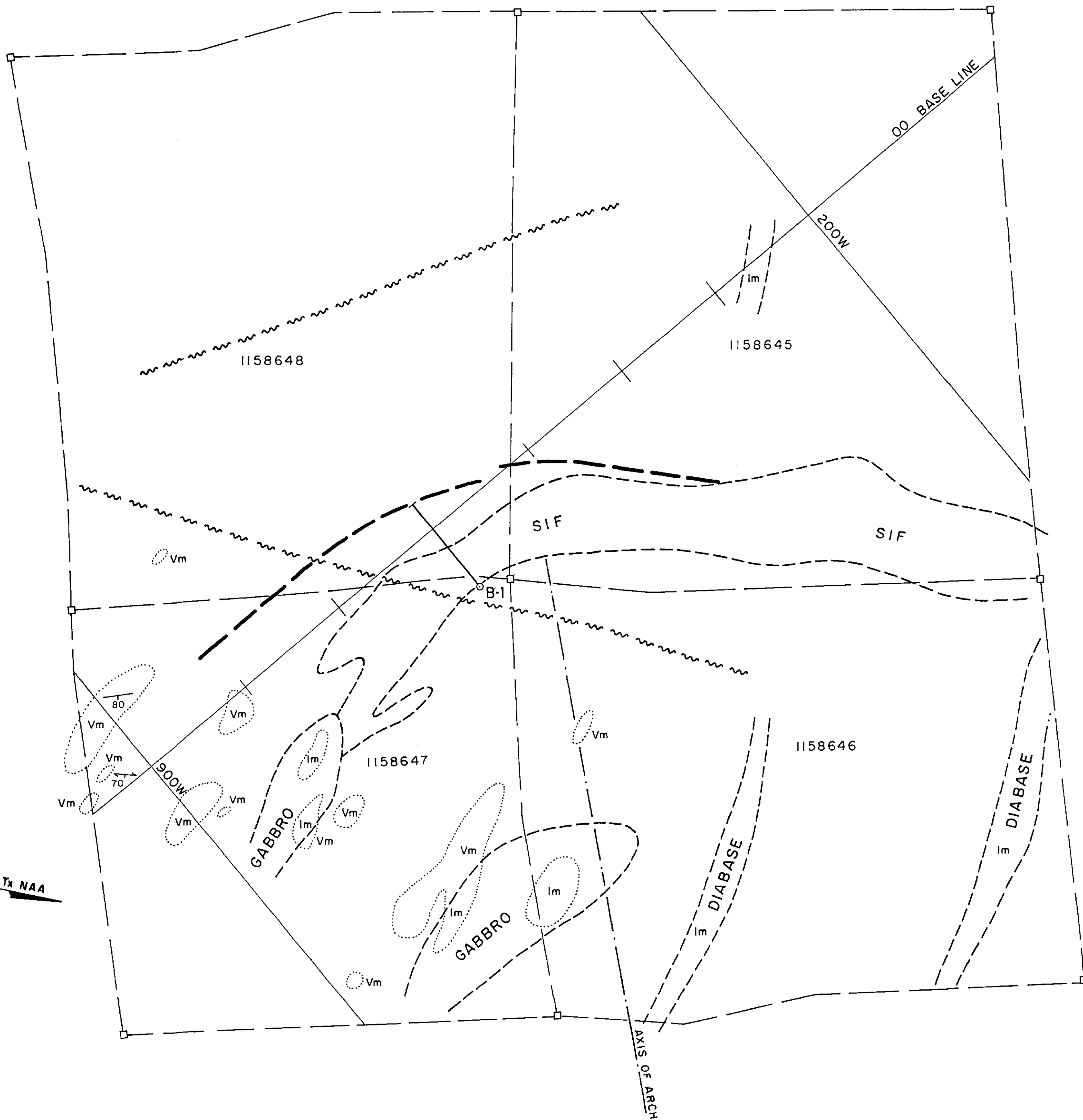
**2.14883**

0 100 200m

Scale 1cm = 25m

J. G. BURNS	
STRACHAN TWP. CLAIMS 42 8/9	
PLAN OF OUTCROP GEOLOGY	
October 1991	E. I. C. No. 2387
1:2500	Figure 2





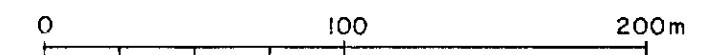
**LEGEND**

- Interpreted fault.....
- Rock outcrop with identifying symbol..... (Vm)
- Inferred geologic contact.....
- Potential mineralized horizon.....
- Axis of arch.....
- Proposed DDH..... (B-1)

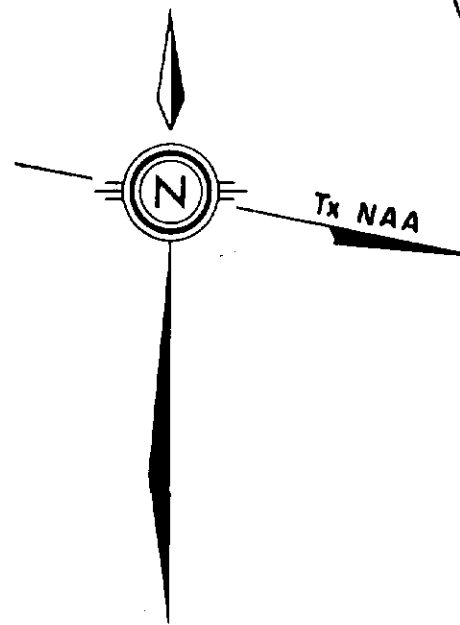
**SYMBOLS USED**

- Vm - Volcanics, mafic
- SIF - Iron formation system
- Im - Intrusive, mafic

2.14883



Scale 1cm = 25m



J. G. BURNS	
STRACHAN TOWNSHIP CLAIMS Ontario	
<b>PLAN OF INTERPRETATION</b>	
	EXCALIBUR INTERNATIONAL
	CONSULTANTS LIMITED
	TORONTO, ONTARIO
	TORONTO, ONTARIO
PREP. BY: J. B. B.	DRAWN BY: R. T. M.
DATE: October 1991	SCALE: 1 : 25 00
DWG. No. E.I.C.- 2388	

