



JAN 2 5 1993

Report on

MINING LANDS BRANCH

GEOPHYSICAL SURVEYS :

VLF - EM 16

&

HLEM - MAXMIN II

2.14879

on

FRIPP TWP. PROPERTY

for claim holders:

J.K. FILO: 535 Bartleman St. Timmins, Ont. P4N 4X2

&

D.V. JONES: P.O.Box 1513

South Porcupine,Ont.
PON IHO

Nov. 4/92

by: J.K. FILO
 H.BSc, P.GEO(BC)
 (with HLEM supplement by
 J.C.Grant, C.E.T., F.G.A.C.)

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## INTRODUCTION

During the 1992 field season Messrs. Jones and Filo worked their Fripp Township nickel prospect located SSW of Timmins, Ontario.

Exploration efforts consisted of prospecting and geophysics. The majority of exploration was concentrated on five claims in the northeast corner of the block where there are nickel occurrences and geophysical targets. A few other prospecting traverses were carried out as well over areas deemed to be favourable as a result of recent Government airborne surveys and other base metal occurrences. (refer to accompanying report on Prospecting).

The results of the exploration work to date are presented within this brief report along with pertinent conclusions and recommendations.

## PROPERTY, LOCATION AND ACCESS

The property is fairly large and consists of 30 contiguous claims or 62 units in Fripp Township. An outline of the prospect with claim numbers is shown in Fig. #S4-1. Access to the property is via Pine Street south from Timmins. After travelling approximately 25 kms beyond the Timmins dump, there is a main logging road and a series of trails which are oriented NNW. Access from Pine Street to the subject property is via this series of trails which lead to Bruce Lake which is within the property boundary (Fig. S4-2).

The entire Filo/Jones property in Fripp Twp. consists of the following claim numbers:

1 unit claims: 1171879, 1189053, 1170463 to 1170484 inclusive

2 unit claims : 1189055

4 unit claims: 1189052, 1189044

6 unit claims: 1189054, 1189051

16 unit claims: 1189050

The VLF and HLEM survey of this report were performed on only 5 of the property claims: 1171879, 1170463 to 1170466 inclusive.

Fig. S4-/ Fripp Twp. Property - claim location

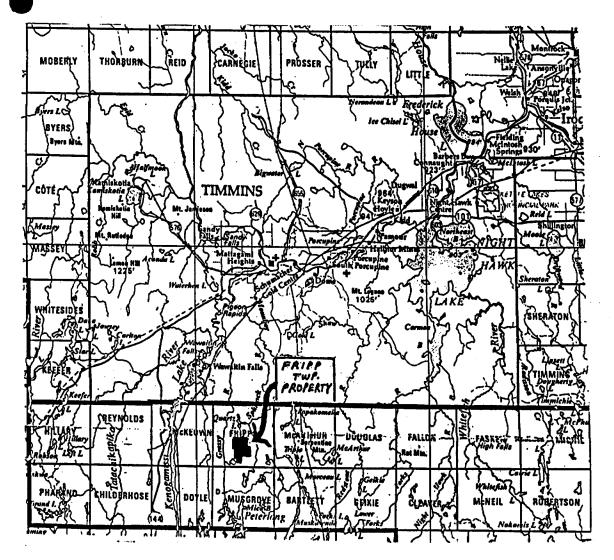


Fig. S4-2 Fripp Twp. Property Location (scale 1:600,000)

# PROPERTY HISTORY

The present day subject property including the nickel occurrence made up portion of a large block of claims controlled and worked by Hollinger Consolidated Gold Mines in the 1960's and 70's for Cu, nickel and gold. Hollinger carried out magnetic and electromagnetic surveys over the prospect and did drilling to test E-M conductors and the known nickel occurrence, very limited assay data is available for any of the work.

Eventually Hollinger dropped the entire block claims with the exception of 5 patents shown in Fig. #S4-2. These patents contain a deposit approximately 55,000 tons at 2% Cu according to a recently published assessment report by Falconbridge (assessment file T-3482). Falconbridge

suggests this deposit may be structurally controlled and/or porphyry related mineralization.

Similar types of mineralization were found on the present subject block in claims 1170468 (not covered in this report- see accompanying Prospecting report).

No significant deposits of nickel were found by Hollinger and eventually all exploration efforts in this area by Hollinger ceased.

In the 1970's Consolidated Tache Mines and Investment Limited examined the area containing the known nickel occurrence (on 1170463). They noted the disseminated nature of the mineralization and carried out and I.P. survey over a large block of claims including the present day claims 1170463 - 1170465 inclusive and claim 1171879. These claims host two significant induced polarization anomalies proximal to the main nickel showing. The Consolidated Tache Mines Company for no apparent reason despite positive recommendations did not pursue the targets further. (Assessment File 1592)

In 1990 the Ontario Government flew airborne geophysical surveys over Fripp Township. This data showed strong magnetics and an in-put target proximal to the known nickel showing. Similar targets were found in other portions of the property as well with strong magnetics and in-put conductors. (O.G.S. Map 81389)

This briefly summarizes the work on this prospect right up to the present program.

## **GENERAL GEOLOGY**

A mapping project was carried out over the subject property as part of Hollinger's property mapping program in this area in the 1960's and 1970's. Much of this data is basically duplicated on the regional Government Compilation Map 2205. The property is predominantly underlain by granodiorite/diorite; within this granodiorite there are some ultramafic/mafic units whose origin is not certain; this author believes that there are both intrusive bodies as well as volcanic flows. These units are well outlined in the recent airborne magnetic survey by the Ontario Government (O.G.S. Map 81389).

The O.G.S. compilation Map 2205 also shows some sediments in the extreme North West section of the property. Also, these maps further show the presence of the Mattagami River Fault cutting through Bruce Lake within the eastern portion of the subject block. A number of splays are also shown off of this main fault.

A more detailed picture of the geology is presented in the Hollinger Assessment file T-702, by Dr. John Kirwan, which may be referred to for further information.

## GEOPHYSICAL SURVEYS

## General

Both a VLF-EM16 and HLEM-MaxMin II survey was undertaken as a means of confirming the previously mentioned I.P. anomaly from Consolidated Tache (T-702) and the new airborne input anomaly that is proximal to this I.P. target. A grid was cut with a north - south baseline that runs for 400 metres from Line 3S to intersect the north claim boundary of 1170463. Lines were cut perpendicular to this BLO at Line 0, Line 2S, and Line 3S (totalling 3.1 km of cut grid).

Due to a limited budget, only these lines were selected so that they would adequately cross over the I.P. anomaly and airborne input anomaly in 1171879.

The VLF-EM16 survey was conducted on Oct. 14/92 with supervision and interpretation by the author of this report J.K. Filo (535 Bartleman St., Timmins, P4N 4X2) while field readings were taken by D.V. Jones.

The HLEM-MaxMin II survery was conducted on Oct. 14/92 by ExsicsExploration Limited with supervision and interpretation by John C. Grant (Rm 13 Hollinger Building, Timmins, Ont.) while field readings were taken by D. Laforest and J. Der Weduwen.

## VLF-EMI6 Geophysical Program

Only partial coverage of the cut grid was surveyed totalling 2.1 km, while another 250 metres of line was surveyed by compass and flagging (Fig S4-8). This was done in order to extend lines 2S and 3S eastward to stop at the east claim boundary of 1171879. The cut grid had stopped short at station 900 E. This gave a total VLF survey of 2.35 km.

### Survey Procedure

A Geonics EM-16 VLF unit was used with the transmitter station being Annapolis, Maryland (21.4 khz). Readings were taken with the instrument facing east at all times, while the parameters measured were the inphase dip angle (%) and the quadrature(%). With this orientation the instrument would be approximately perpendicular to the transmitting station. Data was plotted on a 1:2500 scale map with any cross over responses being marked out as an anomaly (Fig S4-8).

## Results

Two weak anomalies were detected with the first being on Lines 2S and 3S at 250 East. The second being on only line 2S at 525 East.

A relatively strong crossover was detected in central claim 1171879 at Line 3S, 775 East and Line 2S, 750 East. This anomaly coincides directly with the strong input airborne anomaly (OGS 1990) and the I.P. anomaly of Consolidated Tache (T-1592). The two previously mentioned weak crossovers are also coincidental with other I.P. anomalous zones in the Consolidated Tache report.

## <u>HLEM - Max Min II</u> (supplement) <u>Geophysical Program</u>

Mr. K. Filo retained the services of Exsics Exploration Limited to perform an electromagnetic survey over several cut lines located on the east shore of Bruce Lake, Fripp Township in the Porcupine Mining Division of Timmins, Ontario.

The purpose of the program was to test the property for structure favourable for base metal deposition. The survey was completed over three select lines which were cut on the claim group. Refer to the enclosed grid map for the orientation of the lines. (2.7 km total survey).

#### Surevy Procedure

The survey was completed using the Apex Parametrics, MaxMin II system.

The survey utilized a 100 meter coil seperation and two frequencies were read. The high frequency, 1777 hz, reacts well (FIG.54-9) to near surface, weak zones were as the low frequency, 444 hz, reacts well to deeper buried more subtle zones (FIG. 54-10).

The coil seperation would result in a search depth range of 50 to 60 meters as well as a side seeking range of 50 meters, on each side of the line read.

#### Surevy Results

The survey was successful in locating one weak zone striking north-south across lines 300ms and 200ms. A second questionable feature was noted on line 200ms at 425me on the higher frequency only.

At this writing, a follow-up program should be considered for the first feature situated at 775-800me. This program should consist of a deep-em survey using a 400m x 400m transmit loop or the moving coil deep -em system. This type of survey would enhance any weak structure or better define any deep rooted zone. The penetration of this survey should be between 100 and 200 meters.

Should the follow-up program be successful in locating the zone, then drilling should be considered,

Respectfully adbmitted

J.C.Grant, C.E.T., F.G.A.C.

### Conclusions & Recommendations

In light of the lower grade assay values obtained on the main Hollinger showing (see accompanying Prospecting Traverse report) and the lack of past geophysical survey responses on the showing, further exploration efforts were initiated to examine areas proximal to the Ni showing that had shown a strong geophysical response on past surveys. These responses were from previously performed I.P. survey by Consolidated Tache (T-1592) and the recent O.G.S. airborne survey (1990). An attempt was made to confirm these responses with a VLF-EM16 and HLEM-MaxMin II survey.

Weak anomalies were obtained on the HLEM survey over the strongest part of the Consolidated Tache I.P. anomaly or claim 1170464 and a second I.P. anomaly with coincidental OGS airborne input anomaly on claim 1171879. A VLF-EM anomaly was found proximal to the HLEM response on claim 1171879 as well. In the vicinity of the VLF-EM anomaly mentioned, prospecting showed the existence of ultramafic intrusive(?) rocks. It is this author's opinion that from field evidence and the airborne magnetic signature, the two weak HLEM anomalies are situated within ultrmafic rocks and thus a favourable host for nickel sulphides. As suggested by J.C. Grant in this report( page 7 -HLEM supplement), perhaps a pulse EM survey should be considered to further evaluate the known anomalies and if favourable profile is found the anomalies should be drilled. Ideally a more detailed and extensive grid and survey should be performed if finances permit, with at least a minimum coverage of those areas showing past I.P. responses for Consolidated Tache. This would cover most of claims 1170463 to 1170466 inclusive and 1171879.

Also as stated in the accompanying Prospecting report, further geophysics should also be performed on other sections of the Fripp property (not covered by this report), particularily in the zone on claims 1170468 and 1170469, where disseminated copper mineralization was discovered by Hollinger (T-702). If possible an I.P. survey should be considered for the area to try to find similare zones of mineralization which could be tested by follow up drilling.

## **BIBLIOGRAPHY**

- Gledhill, T., 1974, Consolidated Tache Mines and Investments Limited, Report on Induced Polarization Survey, Fripp Township Claim Group (T-1592).
- Hollinger Consolidated, 1962-1988, Reports on Drilling, Geology, Geophysics by Various Hollinger Geologists (Assessment File T-702)
- Houle, M. V., 1991, Report on the Moneta-Fripp Property (Project 8210) Fripp-Musgrove Townships Timmins Area, 1991, Exploration Program (Assessment File T-3482)
- Ontario Geological Survey, 1990, Geophysical and Geochemical Series Map 81412, Scale 1:20,000

### CERTIFICATE

I, J.K.Filo of 535 Bartleman St., Timmins, Ontario, do hereby certify that:

- 1) I personally worked on the VLF-EM16 and Prospecting Traverse projects in Fripp Twp.
- 2) I am the author of this report (other than page 7 HLEM supplement which was written by J.C.Grant of Exsics Exploration); and I have reviewed all pertinent assessment file data, geological reports and pertinent information pertaining to this prospect and adjoining areas prior to writing this report.
- 3) I hold an Honours Bachelor of Science degree in geology from Laurentian University, Sudbury, Ont. (1980) and I am a member of the Association of Professional Engineers and Geoscientists of British Columbia.
- 4) I have been practising my profession as an exploration and mine geologist for just over 12 years.
- 5) I hold some interest in all of the property mentioned in the Fripp Prospect of this report.

J.K.Filo, HBSc., P.Geo(BC)





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Ministry of Northern Development and Mines

February 16, 1993

Ministère du Développement du Nord et des Mines

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

Telephone:

(705) 670-5853(705) 670-5863

Our File: 2.14879

Transaction #W9360.003

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

Dear Sir/Madam:

P4N 2S7

Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS

P1171879 ET AL. IN FRIPP TOWNSHIP

The assessment work credits for the Geophysical surveys filed under Section 14 of the Mining Act Regulations have been approved as originally filed.

The approval date is February 9, 1993.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5855.

Yours sincerely,

(Acting) Senior Manager, Mining Lands

Mines and Minerals Division

**1** LJ/11 Enclosures:

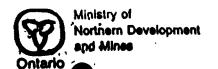
> Resident Geologist cc: Timmins, Ontario

ONTARIO GEOLOGICAL SURVEY GIS - ASSESSMENT FILES

MAR 0 4 1993

RECEIVED

Assessment Files Library Toronto, Ontario



# **Report of Work Conducted** After Recording Claim

**Mining Act** 

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) 870-7284. 2.14879

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.

orded Holder(s)				Client No. 149868 + 13/789
DAVIO V.	JONES	+ J. Kevii	N FILO	Telephone No. (505) 505)235-2474 + 268-905 M or G Plan No.
1008 BOX 1513	. 0.	535 BA	erenan et	Telephone No. (505)
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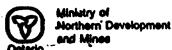
Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (~) one of the following: Credits are to be cut back starting with the claim listed last, working backwards.

- - Credits are to be cut back equally over all claims contained in this report of work.
  - Credits are to be cut back as priorized on the attached appendix. લં છં

in the event that you have not specified your choice of priority, option one will be implemented.

Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims. Note 1:

If work has been performed on patented or leased land, please complete the following: Note 2:



du pement 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



14879

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 lés mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collèce de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Ceder, 4º étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

#### 1. Direct Costs/Coûts directs

Туре	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's	TYPO NAXMIN II	600	
Fees Droits de l'entrepreneur	LINECUTTING	790	
et de l'expert- conseil	VLF -EM16	423	1813
Supplies Used Fournitures	FUAGRAVE)		
utilicées	FIELD BIOLS	25	
	THREAD		
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Total Direct Costs

MINING LANDS BHANCH

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.

Туре	Descri	ption	Amor Mont		Totals Total global
Transportation Transport	TYPO AIRCAFT FIX-WING 240				
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Total Value of Ass (Total of Direct and indirect costs)		Valeur tot: d'évaluation (Total des o et indirects	M oûts direc	to .	

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 sulvant 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 =	1

# **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 <u>RECONDED HOLDER + AGENT</u>
(Recorded Holder, Agent, Position in Company) \_ I am authorized

to make this certification

### 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 =			
				_

#### 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		poste occupé	<u></u> j	suis autorisc
	. Atitulair	e enrecistré.	representant.	DOSIS OCCUDS	dans la co	ompagnia)

à faire cette attestation.

Signature	Date
1. XCilo	DEC 24/92

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

THE TOWNSHIP TWP. M.307 PRICE OF FRIPP DISTRICT OF **TIMISKAMING** PORCUPINE MINING DIVISION SCALE: 1-INCH = 40 CHAINS DISPOSITION OF CROWN LANDS PATENT SURFACE AND MINING RIGHTS LEASE, SURFACE AND MINING RIGHTS SURFACE, RIGHTS ONLY 9 MINING RIGHTS ONLY LICENCE OF OCCUPATION **O** 3 ROADS  $\mathbf{\Xi}$ IMPROVED ROADS KING'S HIGHWAYS RAILWAYS POWER LINES TWP. MARSH OR MUSKEG MINES CANCELLED **MCARTHUR** McKEOWN NOTES 1189055 (2 UNITS) 400' surface rights reservation along the shores of all lakes and rivers. Areas withdrawn from staking under Section of the Mining Act (R.S.O. 1970.) H70472 H70471 RY 223 (L.U.P. - PENDING APPLICATION UNDER THE PUBLIC LANDS ACT). (4UNITS) 1175547 1175546 1175413 4175380 1175379 1175378 1170478 (**†**06811 (16 UNATS) \*REMOTE TOURIST CAMPS 117541 1175412 F-THIS TWP. SUBJECT TO FOREST ACTIVITY IN 1999/83. \$1061 \$5174 1189051 1170473 FURTHER INFORMATION ON FILE ( UNITS) 1175409 1170474 | 1170461 1170918 1172108 1170917 1172109 1172HO 1178871 178 70 1178402 1175402 1175397 IN ARRYSCE HOV, 22,000 CHECKED BY & ROWAN PLAN NO." M. 281 a/° 20'08" MUSGROVE TWP. M.304 ONTARIO .... MINISTRY OF NATURAL RESOURCES 200 SURVEYS AND MAPPING BRANCH

5 05

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.

