



42A03NW0020 W9660-00004 FRIPP

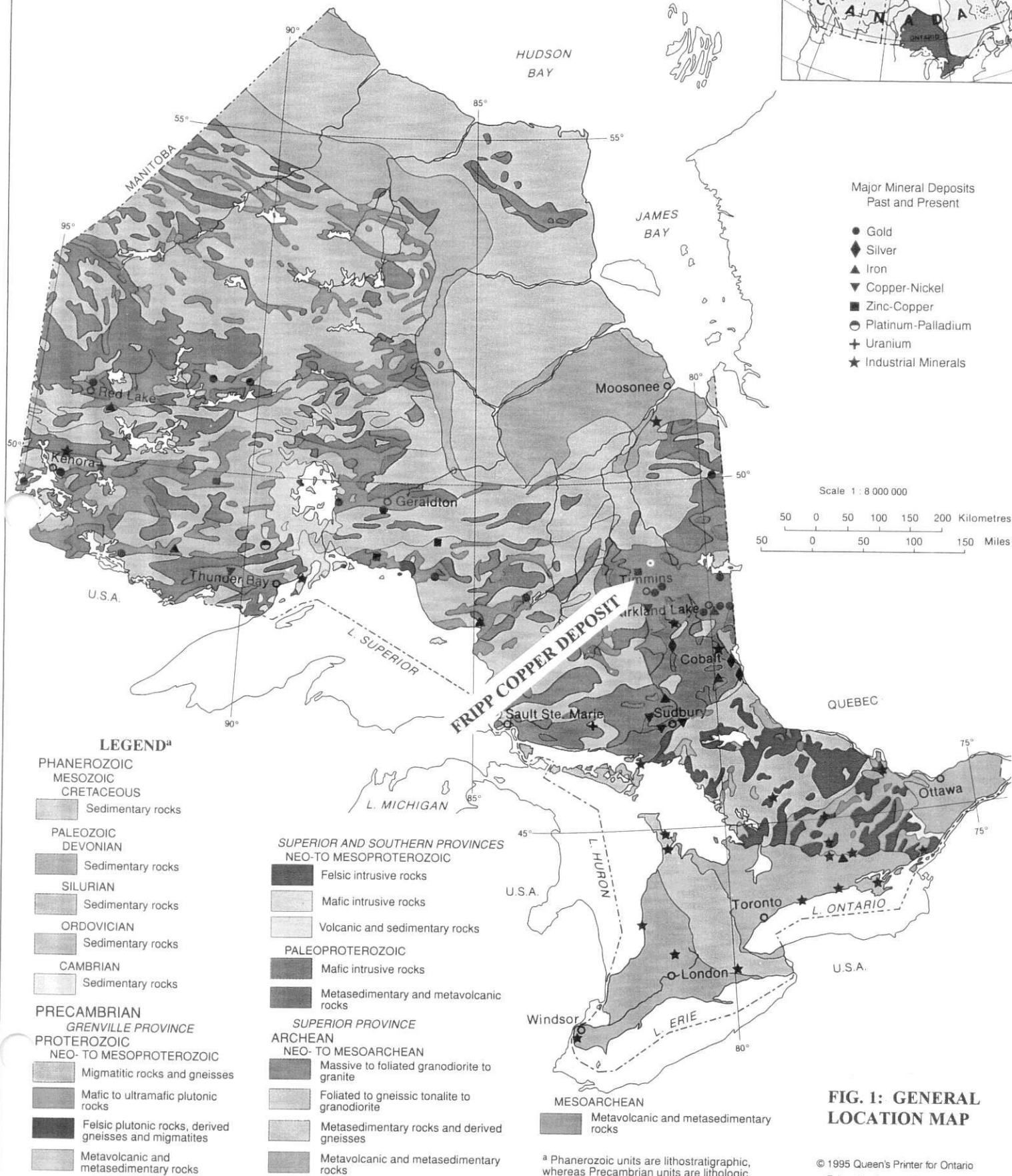
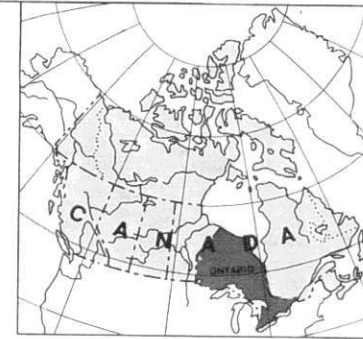
010

DIAMOND DRILLING REPORT
ON
McARTHUR MINERALS
FRIPP TWP. COPPER PROSPECT

Jan. 1, 1996

By: J. K. Filo HBS. Geo.

GEOLOGY AND PRINCIPAL MINERALS OF ONTARIO





42A03NW0020 W9660-00004 FRIPP

010C

TABLE OF CONTENTS

INTRODUCTION.....1
PROPERTY, LOCATION, AND ACCESS.....1
DISCUSSION OF 1995 PROGRAM.....1
CONCLUSIONS AND RECOMMENDATIONS.....2

CERTIFICATE

BIBLIOGRAPHY

FIGURES

FIGURE 1: GENERAL LOCATION MAP
FIGURE 2: CLAIM MAP
FIGURE 3: DRILL HOLE PLAN MAP
FIGURE 4: DRILL HOLE SECTION

INTRODUCTION

The purpose of this very brief report is to provide some background on this prospect, and document the recent work carried out by McArthur Minerals on the Fripp Twp. Copper Prospect.

McArthur Minerals controls a large land package in SE Fripp Twp. Within these land holdings there is a small porphyry copper deposit that was originally drilled off by Hollinger Consolidated Gold Mines. Hollinger estimated that there was a reserve of 114,228 tons @ 1.66% Cu in this deposit. After an examination of assessment files, and private files held by Moneta Porcupine Mines on this deposit, it was thought that this deposit distinctly resembled the copper/gold porphyry deposit mined at the MacIntyre Mine.

Hollinger data suggested that there was potential to expand the reserve on this prospect down plunge to the NW. Also, other geophysical targets with a response similar to the one found over the deposit remain to be tested as well. Consequently, McArthur Minerals has opted to further evaluate the main deposit area and all surrounding targets of interest on this prospect.

The following portions of the report will discuss the results of the recent program in the immediate deposit area, and present formal recommendations for further work.

PROPERTY, LOCATION, AND ACCESS

The subject property is located approximately 32 km. due south of the City of Timmins Ontario.(fig.1&2)

Access to the property is attained by heading due south of Timmins along Pine Street for 32 km. At this point the property is accessed by travelling west along a major logging haul road for 7.3 km. where the Splitrock Lake logging road is intersected. From this intersection one travels northwesterly for 0.6 km. along the Splitrock road to intersect the southern boundary of the property. At this point various portions of the property can be accessed via a network of new logging roads heading north/northwest.

The present McArthur Minerals Property consists of 49 staked claims and 5 leased claims all of which are contiguous; in all these claims comprise 128 units or approximately 5120 acres. A current map showing all of the pertinent numbers making up these land holdings is shown on the accompanying claim map. (fig.2)

DISCUSSION OF 1995 PROGRAM

During late 1995 a preliminary drill program of 700 m. was to be carried out on the Fripp Copper Prospect to evaluate the main copper zone. The intent of this program was to confirm the presence of the zone, examine the geology, and evaluate the down plunge of the deposit to the NW. The holes that were laid out were based on

original Hollinger data and recent Falconbridge Exploration work done in the early 1990's.

However, only 128m. of the original program envisioned was completed. The main reason for this was that there were major discrepancies in the old collar locations in the field relative to the locations shown on the Falconbridge compilation. Only one original Hollinger metal tag on a hole collar could be found in the snow. An attempt was made to tie this single hole into the known Falconbridge/Hollinger grid lines and drill a single confirmation hole into the best part of the deposit. This hole failed to intersect the highest grade section of the deposit as shown on Hollinger sections. Thus, it was thought that it would be prudent to stop drilling until better control was gained on the old hole locations relative to the currently established grid.

The log for the single drill hole MAC-1 is shown in the accompanying Appendix 1. It can be seen that this hole intersected a diorite feldspar porphyry unit from 79.4 to 88.6m and 93.3 to 102m. Within these two intervals some extremely fine disseminated chalcopyrite is evident. It is this author's opinion that this is the unit that likely hosts the main copper deposit, and the MAC-1 hole likely undershot the plunge of the deposit on the particular section it was drilled on. Assay values for this hole will be reported at a later date, this brief report has been filed to meet assessment deadlines.

CONCLUSIONS AND RECOMMENDATIONS

The recently completed drill program on the Fripp Copper Prospect allowed geologists to examine a section of core in the immediate area of the deposit and a mineralized diorite feldspar porphyry. This feldspar porphyry unit is thought to be the host unit for the deposit. Unfortunately, the hole did not intersect a high grade section of the deposit, the main target of the hole. The probable reason for missing this zone is that there is poor control in the field on collar locations relative to their position on currently available maps.

The following recommendations should be considered for this property:

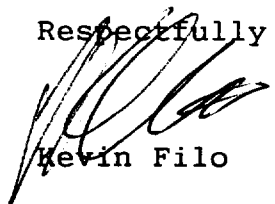
- 1) Carry out a transit survey of the collars in the spring to locate all collars, and collars tagged with original Hollinger hole tags. This would allow geologists to tie in collars in the field properly to the current surface grid.

- 2) Carry out limited diamond drilling on the main zone to confirm the nature of the mineralization and related geology on the deposit. Also, some drilling should be considered to test the down plunge extension of the deposit to the NW as recommended by consulting geologists for Hollinger.

3) Some induced polarization should be considered to follow up on previously delineated Hollinger I.P. targets with signatures similar to that shown over the main zone. If a new survey confirms this work drilling should be initiated on these targets.

4) Geophysical surveys should be considered for other sections of the property as well that are considered prospective. Diamond drilling of these areas would be considered if geophysical results are favourable. Two such areas of interest currently known to the author are on claims 1170468 and 1170463. Both of these areas are known to host historical base metal and gold occurrences, as documented in historical private Hollinger data.

Respectfully Submitted,



Kevin Filo

CERTIFICATE

I, J. Kevin Filo of 535 Bartleman of the City of Timmins do hereby certify:

1) I have personally supervised the drilling program on the McArthur Minerals Fripp Twp. Copper Prospect and I have written this report on the program. Prior to writing this report I examined all pertinent historical data on this property.

2) I further certify that I have some personal interest in adjoining lands outside of the leases that the drilling was completed on. These lands are currently under option to McArthur Minerals.

3) I hold an Honours BSc. (1980) in Geology from Laurentian University in Sudbury. I have been practicing my profession as both an exploration and mining geologist continually since graduation in Canada, Mexico and SE Asia. Prior to carrying out consulting work I was employed by various mining and exploration companies. Some of these companies included Texasgulf Exploration Inc., Amax Exploration, Cominco (Pine Point Mines), Giant Yellowknife Mines, Nerco Con Mine, Freeport McMoran, and various junior mining companies.

4) I am a professional geologist in good standing with the Association of Professional Engineers and Geoscientists of B.C. (reg. no. 18677)

Respectfully Submitted,


Kevin Filo HBsc., P. Geo.

BIBLIOGRAPHY

- 1) Various assessment files by Hollinger and Falconbridge Exploration in the resident geologist's office in Timmins.
- 2) Private files of Hollinger Consolidated Gold Mines currently in the possession of Moneta Porcupine Mines in Timmins.



42A03NW0020 W9660-00004 FRIPP

020

APPENDIX 1 DRILL LOGS



THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. **MAC-1** PAGE NO. **1**

DRILLING COMPANY NOREX INTERNATIONAL		COLLAR ELEVATION NO SURVEY	BEARING OF HOLE FROM TRUE NORTH 235° AZ	TOTAL 128 metres	DIP OF HOLE AT collar -62°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM see SKETCH	MAP REFERENCE NO. M-281	CLAIM NO. LEASE P51071
DATE HOLE STARTED DEC. 9/95	DATE COMPLETED DEC. 11/95	DATE LOGGED DEC 29-31/95	LOGGED BY J.K. FLO		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.) FRIPP TWP	
EXPLORATION CO., OWNER OR OPTIONEE MALARTHUR MINERALS		DATE SUBMITTED JAN 4/95	SUBMITTED BY (Signature) 		ft	PROPERTY NAME FRIPP CU ZONE		

FROM	TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE †	YOUR SAMPLE NUMBER	FROM	TO	SAMPLE LENGTH	ASSAYS †
0	10	CASING								
10	13.30	DIORITE	- medium to coarse grained unit that contains pink orthoclase feldspar, plagioclase feldspar, quartz and about 10-15% mafic minerals (hornblende?) that are often altered to chlorite - two sets of fractures are noted, one at about 95° to C.A. & a second at 45° to C.A. - hematite staining is often present on fracture planes - rare speck of pyrite noted but no significant mineralization - lower contact sharp at 44° to C.A.							
13.30	15.75	MAFIC DYKE	- fine grained black mafic dyke - very strongly magnetic unit - local fine stringers of pyrite & rare speck of chalcoprite - a number of fragments of wall rock material are present in dyke - a few fractures noted, once again these are at 45° to C.A.			14951	13.3 m	14.0 m	0.7	
15.75	26.95	DIORITE	- upper contact sharp and at 45° to C.A. - this is a diorite unit, once again, it is principally made up of feldspar (mainly plagioclase), quartz, and mafic minerals that are often altered to chlorite to some extent - for the most part the unit is medium to coarse grained - no significant mineralization noted, one speck of chalcoprite at 21.7 m. - one prominent set of fractures at 45° to C.A.			14952	21.5	22.5	1.0	

* For features such as foliation, bedding, schistosity, measured from the long axis of the core

† Additional credit available. See Assessment Work Regulations.



Ontario

THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. **MAC-1** PAGE NO. **2**

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	PROPERTY NAME
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft			
					ft			

FROM	TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE †	YOUR SAMPLE NUMBER	SAMPLE		ASSAYS †	
							FROM	TO	LENGTH	
			- fault zone noted at 18.8-19.8m, blocky broken section, slip planes noted with slickensides & talc-chlorite alteration, slips on slip planes at 15-20° to core axis - between 20-23 m. once again a series of small faults at 15° to C.A. with slickensides & some talc-chlorite alteration - small piece of volcanic (mafic) material (fragment?) caught up in intrusive at 26-26.85 - lower contact along a fault at 15° to C.A.							
26.95	31.8	Quartz Gabbro?	- this section of gabbro? has a substantial number of ferro-magnesium minerals, some plagioclase and blue colored interstitial quartz similar to that seen on occasion in diorite above - unit is weakly magnetic - no significant mineralization noted - fracture set within this section 60° to C.A. - one or two minor quartz veins noted in this interval - lower contact on quartz/feldspar vein oriented 15° to C.A.			14953	28	29.5	1.5	
31.8	59.65	DIORITE	① 31.8-44 - this unit again is a diorite unit similar to that described initially from 15.75-26.95 - this interval contains a number of small riffs or fragments of volcanic material that is mafic to intermediate volcanic in composition - fracture set noted in this interval at 45° to C.A., sometimes a rare quartz veinlet will infill the fracture, also minor hematite staining on fracture planes on							

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

† Additional credit available. See Assessment Work Regulations.



Start a new page for every new hole, but fill in the portion of form only on first page for each hole.

ALL IN ON EVERY PAGE

HOLE NO. **MAG-1** PAGE NO. **3**
CLAIM NO.

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	PROPERTY NAME
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft			
					ft			

FROM	TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE †	YOUR SAMPLE NUMBER	SAMPLE LENGTH		ASSAYS †	
							FROM	TO		
			<p>OCCASSION</p> <ul style="list-style-type: none"> - a few faults noted at 40.2 & 43.1 at 15 & 5° to C.A. - no significant mineralization noted in this interval 							
			<p>@ 44-57.65</p> <ul style="list-style-type: none"> - still a diorite interval much like interval described above - reasonably competent interval, still a distinct fracture set present at 45° to C.A. - minor faults @ 46.7 (15° to C.A.), 47.35 (20° to C.A.), 53.3 (15° to C.A.) - also a small fault zone near lower contact, slip planes and contact at 15° to C.A. - this section also contains a few rafts or fragments of volcanics, but these are minor - no significant mineralization noted except for a rare speck of pyrite on occasion 							
57.65	60.85	Diorite Feldspar Porphyry Dyke	<ul style="list-style-type: none"> - fine grained pinkish grey unit with sharp contacts - unit has small pink & white feldspar phenocrysts throughout it, matrix supported unit - two sets of fractures noted, one at 45° & a second at 90° to C.A. - locally there is some fine disseminated pyrite within the unit overall 1-2% maximum - some minor faults in this section as well generally 10-15° to C.A. - lower contact 			14954	57.65	58.65	1.00	
						14955	58.65	59.85	1.20	
						14956	59.85	60.85	1.00	

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

† Additional credit available. See Assessment Work Regulations.



THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. **MAC-1** PAGE NO. **4**

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	PROPERTY NAME
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft			
				ft				

FROM	TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE LENGTH		ASSAYS +		
							FROM	TO			
60.85	77.3	DIORITE	<p>initially a substantial fault zone is present starting at the contact of the diorite feldspar porphyry unit above & going to 64.95</p> <p>- the principal unit in the fault is diorite that is talc chlorite altered, there also appears to be some minor diorite feldspar porphyry dyke material as well & perhaps some parts of mafic volcanic material</p> <p>- the slips in the fault zone at shallow angle 15-20° to C.A.</p> <p>- the diorite unit itself is much like what was described previously at 15.75-26.95, like the last diorite unit described this section also contains some parts or fragments of volcanic material</p> <p>- the unit is basically unmineralized except for minor chalcoprite over 15cm @ 63.3-63.5 within the fault zone and minor pyrite at 70.4 m in a part of mafic volcanic</p> <p>- once again the mafic minerals in this interval of diorite are altered to chlorite to some extent.</p> <p>- fractures in this interval found at 45 & 70° to C.A. generally</p> <p>- beyond the major fault zone described above there are small number of tiny faults also at 15° to C.A. generally, these often have slickensides & they are talc chlorite altered</p> <p>- lower contact is sharp & once again appears to be associated with a fault zone, again but a minor one, 15° to C.A., chlorite & talc alteration on contact in diorite unit</p>			14957	63.2	63.7	0.5		
77.3	78.4	Diabase Feldspar Porphyry Dyke	<p>- fine grained pinkish grey unit with feldspar phenocrysts; similar to unit described previously at 57.65-60.85</p>			14458	77.3	78.4	1.10		

* For features such as foliation, bedding, schistosity, measured from the top end of the core

+ Additional information available. See Assessment Work Regulations



THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. MAC-1	PAGE NO. 5
CLAIM NO.	

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.	
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lot. and Long.)		
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft				
				ft				PROPERTY NAME	

FROM	TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE †	YOUR SAMPLE NUMBER	SAMPLE LENGTH		ASSAYS †	
							FROM	TO		
			-no significant sulphides noted in this interval -lower contact a fault contact at 15° to C.A.							
79.4	79.4	DIORITE	-diorite as described above from 60.85-79.3, except this section is a fault zone, with numerous talc-chlorite altered sl. ps running almost parallel to core axis -lower contact 15° to C.A.			14959	78.4	79.4	1.0	
79.4	88.6	DIORITE FELDSPAR PORPHYRY	-fine to medium grained greyish pink unit with white and pinkish sub-hedral phenocrysts of feldspar, unit is matrix supported -fairly competent unit, some fractures, one main set basically at 45° to C.A. -one fine quartz stringer 80° to C.A. at 79.9m -a few minor faults at 80.3 (15° to C.A.); at 83.4 minor fault and minor section of diorite from 83.4 to 83.9 -beyond 83.9 to 88.6 numerous specks of fine chalcoppyrite, about 0.5% overall & some fine pyrite also < 0.5%, also some chalcoppyrite present on fracture planes -lower contact at 45° to C.A. & associated with pegmatitic felsic dyke			14960 14961 14962 14963 14964 14965 14966 14967 14968 14969	79.4 80 81 82 83 84 85 86 87 88 88.6	80 81 82 83 84 85 86 87 88 88.6	0.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.6	
89.6	93.3	DIORITE?	-initially this unit is finer grained and subjected to about 90.5, this section is possibly a chill margin? with more mafic material in it. -beyond 90.5-92.5 unit approaches diorite/granodiorite in composition, there is a distinct increase in K-feldspar for a short interval -last portion of interval or unit similar to previous diorites described but unit finer grained			14970 14971 14972 14973	89.6 90 91.5 92.5	90.00 91.50 92.50 93.45	1.40 1.50 1.00 0.95	

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

† Additional credit available. See Assessment Work Regulations.



THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. MAC-1
PAGE NO. 6

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft		PROPERTY NAME	
					ft			

FROM	TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE †	YOUR SAMPLE NUMBER	SAMPLE		ASSAYS †		
							FROM	TO	LENGTH		
			- a series of minor slips are present in this unit, generally 20° to C.A., also a few fractures at 45° to C.A., unit contains minor diss. pyrite < 1% - lower contact 15° to C.A.								
93.3	102	Leucoxene Bearing Diorite Feldspar Porphyry	- very similar to unit just described from 79.4 to 88.6 except this section has leucoxenes in it. - this section also has a distinct fabric in it at about 25° to C.A. near upper contact - distinctly hematitic interval from 99.5-101m. - sulphide content estimated to be 12, both chalcopyrite and pyrite, 3:1 ratio respectively, very fine disseminated sulphides, mineralization does not appear to be fracture controlled, however some mineralization associated with fractures (minor) - fairly competent unit with a minimal number of fractures - lower contact along fracture 20° to C.A.			14974	93.45	94	0.55		
						14975	94	95	1.00		
						14976	95	96	1.00		
						14977	96	97	1.00		
						14978	97	98	1.00		
						14979	98	99	1.00		
						14980	99	100	1.00		
						14981	100	101	1.00		
						14982	101	102	1.00		
102	128	DIORITE?	- initially, from 102 to 106 the diorite appears to be very fine grained, somewhat silicified & more grey in color typical of a chill margin? - there are small 10cm remnants? of coarse diorite typical of the diorite seen near the top of this hole @ 15.75-26.95 - from 106-116 distinctly medium grained version of diorite described @ 15.75-26.95 - at 102-116 distinct fracture sets noted a 45° & 70° to C.A., however unit is competent as fractures few in number - also at 102-116 a few minor slip at 10-15° to C.A. with talc-chlorite alteration along slip planes - also, on 11 very minor rare pyrite mineralization from 102-116								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

† Additional credit available. See Assessment Work Regulations.



Ontario

THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. **MAC-1** PAGE NO. **7**

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft		PROPERTY NAME	
					ft			

FROM	TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE †	YOUR SAMPLE NUMBER	SAMPLE		ASSAYS †	
							FROM	TO	LENGTH	
			<p>@116-120, still fine grained diorite but larger intervals of coarse grained diorite mixed in typical of the coarse grained diorite described at 15.75-26.95.</p> <p>- still a series of fractures (minimal) but oriented 45° to c.a. for the most part in this section</p> <p>- some fabric noted in fine grained sections 25° to c.a.</p> <p>- no significant mineralization noted in this section</p>							
			<p>@120-128 (E.O.H.)</p> <p>- this is coarse grained diorite typical of that described previously @ 15.75-26.95m.</p> <p>- competent section with two minor sets of fractures @ 45 & 70° to c.a.</p> <p>- occasional quartz stringer, rare speck or two of pyrite</p> <p>- also, occasional raft or fragment? of volcanic rock within intrusive 30-50 cm. long</p> <p>- no slips noted in this last section</p>							
			<p>E.O.H. - 128m.</p> <p>CORE CURRENTLY STORED AT MONETA PORCUPINE MINES CORE SHACK (DEC-31/95)</p>							

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

† Additional credit available. See Assessment Work Regulations.



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) 870-7264.

- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for Recorder.
 - A separate copy of this form must be completed.
 - Technical reports and maps must accompany.
 - A sketch, showing the claims the work is as



42A03NW0020 W9660-00004 FRIPP

900

Recorded Holder(s) <i>MUNETA PORCUPINE MINES, K. F. ILO, D. JONES</i>		Client No.
Address <i>535 BARTLEMAN, TIMMINES CRT</i>		Telephone No. <i>905 268 9045</i>
Mining Division <i>Porcupine</i>	Township/Area <i>FRIPP</i>	M or G Plan No.
Dates Work Performed From: <i>DEC 7 / 95</i>		To: <i>JAN 2 / 96</i>

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	
Physical Work, Including Drilling	RECORDED
Rehabilitation	JAN 04 1996
Other Authorized Work	<i>Drilling</i>
Assays	
Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ 9860

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
<i>J. K. F. ILO</i>	<i>535 BARTLEMAN TIMMINES CRT P4N 4/2</i>

(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 <i>JAN 4 / 96</i>	Recorded Holder or Agent (Signature) <i>[Signature]</i>
--	---------------------------	--

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 <i>J. K. F. ILO 535 BARTLEMAN TIMMINES CRT P4N 4/2</i>		
Telephone No. <i>905 268 9045</i>	Date <i>JAN 4 / 96</i>	Certified By (Signature) <i>[Signature]</i>

For Office Use Only

Total Value Cr. Recorded <i>9860</i>	Date Recorded	Mining Recorder	Received Stamp
	Deemed Approval Date <i>April 3 / 96</i>	Date Approved <i>APR. 4, 1996</i>	(e)
	Date Notice for Amendments Sent	(DEEMED)	

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	1195380	1
	1195381	1
	1190919	1
	1190918	1
	1195409	1
	1195410	1
	1195411	1
	1195412	1
	1195413	1
	1195546	1
	1195549	1
	1195550	1
	1190300	2
	1191879	1
	1190299	1
Total Number of Claims		32

Value of Assessment Work Done on this Claim	Value Applied to this Claim
	400
	400
	400
	400
	400
	400
	400
	400
	400
	400
	400
	400
	800
	400
	130
Total Value Work Done	9860

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
Total Assigned From	9860
Total Reserve	0


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 prioritize 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 prioritized on the attached appendix.

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

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

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

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature 	Date
---	---	------

Work Report Number for Reserve	Claim Number (see Note 2)	Number of Claim Units
	LEASE 51091	1
	1190463	1
	1190465	1
	1190466	1
	1190467	1
	1190468	1
	1190469	1
	1190490	1
	1192168	1
	1192109	1
	1192110	1
	1192111	1
	1192112	1
	1195396	1
	1195397	1
	1195398	1
	1195399	1
SEE NEXT PAGE		
Total Number of Claims		

Value of Assessment Work Done on this Claim	Value Applied to this Claim
9860	0
	400
	400
	400
	400
	400
	400
	400
	400
	104
	103
	103
	103
	103
	103
	103
	400
	400
SEE NEXT PAGE	
Total Value Work Done	
Total Value Work Applied	

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
9860	1500
SEE NEXT PAGE	
Total Assigned From	
Total Reserve	

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 prioritize 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 prioritized on the attached appendix.

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

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

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

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date
---	-----------	------

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
W9660.00004

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^e 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		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type Driller	7560	
	Geologist	2100	
			9660
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			9660

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 TRUCK	200	
			200
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilitation			
Sub Total of Indirect Costs Total partiel des coûts indirects			200
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			200
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)		Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)	9860

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	Évaluation 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 [Signature] 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 [Signature] je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature <u>[Signature]</u>	Date <u>5 JAN 1996</u>
------------------------------	------------------------

Ministry of
Northern Development
and MinesMinistère du
Développement du Nord
et des Mines(705) 360-8330
Fax: 360-2001**File: W9660.00004**

October 11, 1996

Mr. J.K. Filo
535 Bartleman Street
Timmins, ON
P4N 4X2

Dear Mr. Filo:

**Subject: APPROVAL OF ASSESSMENT WORK CREDIT ON MINING LAND,
LEASE P-51071 IN FRIPP TOWNSHIP**

A 45 Day Notification was not issued on this Work Report prior to the 90 day deemed approval date as outlined in subsection 6(7) of the Assessment Work Regulation. Accordingly, this submission is **deemed approved as of April 4, 1996.**

The assessment work credit has been deemed approved under Section 16 (Exploratory Drilling) of the Assessment Work Regulation.

If you have any questions regarding this correspondence, please contact Terry Binkley at (705) 360-8338.

Yours sincerely,

Dale Messenger
Acting Mining Recorder
Porcupine Mining Division

/tb

cc: Ron Gashinski, Senior Manager, Mining Lands
Moneta Porcupine Mines
David Jones

THE TOWNSHIP OF

FRIPP

DISTRICT OF
TIMISKAMING

PORCUPINE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

DISPOSITION OF CROWN LANDS

- PATENT, SURFACE AND MINING RIGHTS
- SURFACE RIGHTS ONLY
- MINING RIGHTS ONLY
- LEASE, SURFACE AND MINING RIGHTS
- SURFACE RIGHTS ONLY
- MINING RIGHTS ONLY
- LICENCE OF OCCUPATION

- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O. 1970.)
Order No. File Date Disposition

RY 223 (LUP PENDING APPLICATION UNDER THE PUBLIC LANDS ACT)

⊕ REMOTE TOURIST CAMPS

⊕ THIS TWP SUBJECT TO FOREST ACTIVITY IN 1995/96. AREAS DESIGNATED EXACTLY AS SUBMITTED BY MNR TIMMINS.

Ⓡ AGGREGATE PERMIT SAND & GRAVEL OCT. 07/94

IN SERVICE NOV. 22/89

CHECKED BY S. ROWAN

PLAN NO. M. 281

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

PRICE TWP. M.307

MUSGROVE TWP. M.304

MCKEOWN TWP. M.299

MARTHUR TWP. M.298

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.



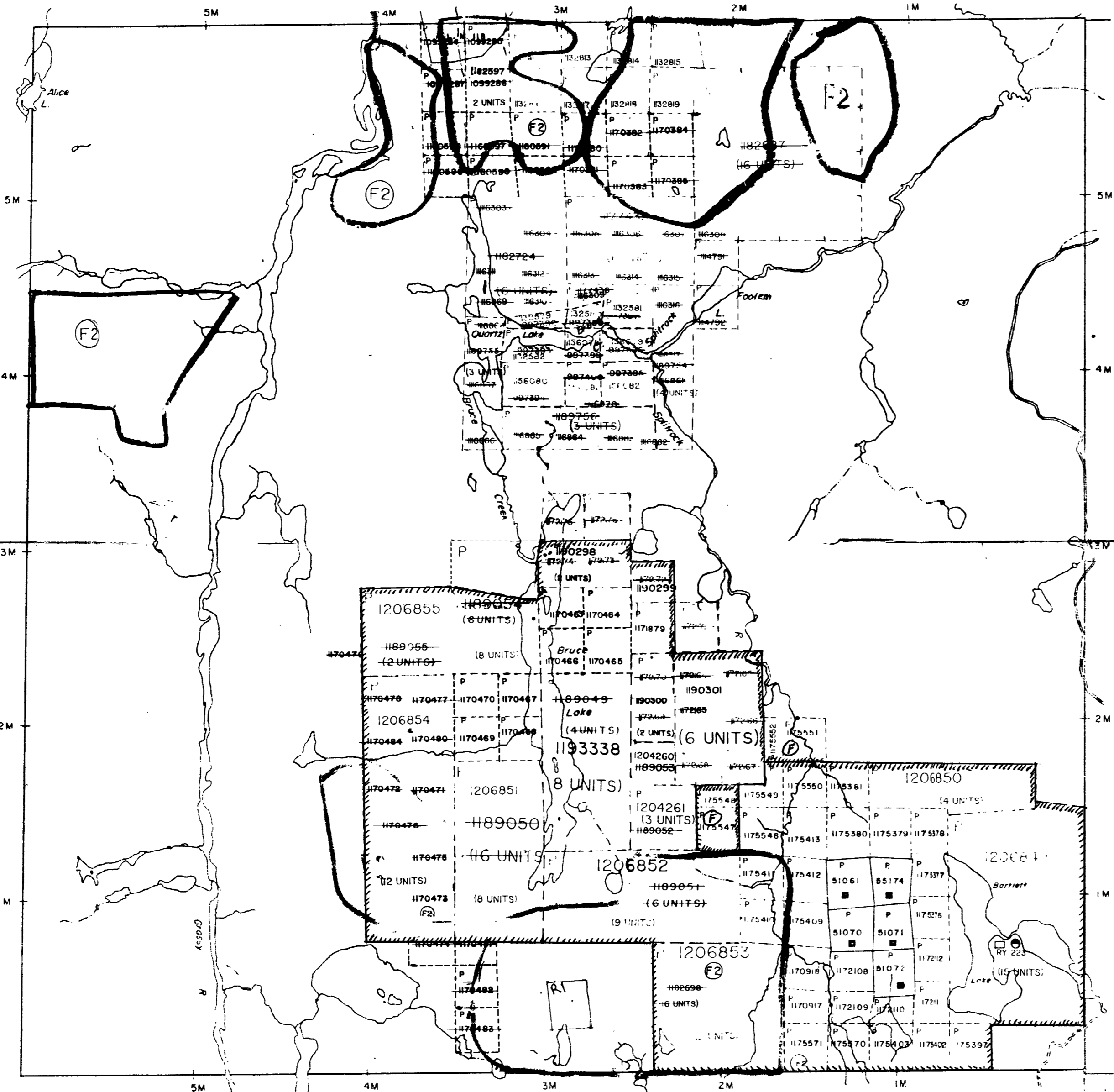
42A03NW0020 W9660-0004 FRIPP

PRICE TWP. M.307

MCKEOWN TWP. M.299

McARTHUR TWP. M.298

MUSGROVE TWP. M.304



THE TOWNSHIP OF

FRIPP

DISTRICT OF
TIMISKAMING

PORCUPINE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

DISPOSITION OF CROWN LANDS

PATENT, SURFACE AND MINING RIGHTS ----- C
 ■ SURFACE RIGHTS ONLY ----- C O
 ■ MINING RIGHTS ONLY ----- C O
 LEASE, SURFACE AND MINING RIGHTS ----- C
 ■ SURFACE RIGHTS ONLY ----- C O
 ■ MINING RIGHTS ONLY ----- C O
 LICENCE OF OCCUPATION ----- C

ROADS
 IMPROVED ROADS
 KING'S HIGHWAYS
 RAILWAYS
 POWER LINES
 MARSH OR MUSKEG
 MINES
 CANCELLED

ISSUED
 JAN 07 1988
 MINING DIVISION

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O. 1970.)

Order N°	File	Date	Disposition

PRELIMINARY TO MINING CLAIMS

F2 THIS TWP SUBJECT TO FOREST ACTIVITY IN 1985/86. AREAS DESIGNATED AS SUCH AS SUBMITTED BY THE MINING DIVISION.

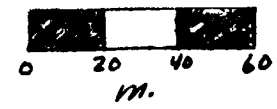
IN SERVICE NOV. 22/88 CHECKED BY S. ROWAN

PLAN NO. **M.281**

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.





HOLLINGER BASE LINE 14150 N
FALCON BRIDGE BASELINE BL100N

P51071

HOLLINGER LINE 395
FALCON BRIDGE LINE ZERO

⊙ MAL-1 COLLAR
141N
020E
AZ 235°
E.O.H. 128m

McARTHUR MINERALS
FRIPP COPPER PROSPECT
DRILL HOLE LOCATION MAP

JMO
FIG. 3

220





MAC-1 COLLAR
AZ 235 DEGREES
DEPTH 128 METRES






SURFACE, SECTION AZ 235 DEGREES, SECTION FACES SOUTHEAST

-62°

EASTERN CLAIM BOUNDARY OF LEASE CLAIM P51071

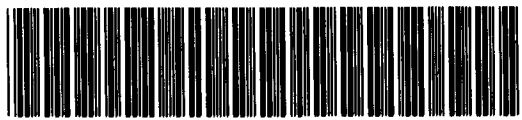
McARTHUR MINERALS
FRIPP COPPER PROSPECT

LEGEND:

-  CASING
-  MAFIC DYKE
-  DIORITE
-  QUARTZ GABBRO
-  DIORITE FELDSPAR PORPHYRY

E.O.H 128m

FIG: 4



42A03NW0020 W9660-00004 FRIPP