

MNR-1



52C13SW0003 2.11817 MATHER

010

GEOLOGICAL SURVEY
OF A GROUP OF 20 CLAIMS, NEAR FINLAND, ONTARIO
(BETWEEN KENORA AND FORT FRANCIS)

for

RECEIVED

NOV 15 1988

Walter Cummings
240 Markland Drive,
Etobicoke, Ontario
M9C 1R3

MINING LANDS SECTION

by

2nd
63A.383

Michael Ogden, B.A.Sc., P.Eng.
Toronto, Ontario.

November 1988



52C13SW0003 2.11817 MATHER

010C

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INTRODUCTION

Having heard about some zinc in the Finland area, a search of the assessment files revealed that Canadian Nickel Company had intersected some interesting sulphide mineralization in three drill holes during 1972 and 1973.

Their intersections of zinc and copper sulphides associated with gabbro overlying more acidic rocks was reminiscent of the Zenmac zinc orebody north of Schreiber, Ontario. There, the massive zinc and copper lies at the bottom of a gabbro with a series of highly altered lavas beneath it. All that reaches the surface is the up dip, minor mineralization, and a halo of rock alteration extending 3 or 4 kilometres along the acidic lava series.

The similarity was such that the potential seemed worthy of investigation so the ground was staked. Gold is not mentioned in any of the logs and in 1972 or 1973 it is unlikely that routine assaying for gold was done so there is also a gold potential.

REFERENCES

1. Assessment files of M.N.R. on Grenville Street, Toronto. In particular for the Canadian Nickel Company drill logs and also the aeromagnetic maps of the area.
2. O.D.M. Vol.53, Part 5, 1954. Geology of Emo Area by Fletcher and Irvine.
3. Geoscience Report 140, "Off Lake - Burditt Lake Area" by Chas. Blackburn of M.N.R., 1976.
4. Geological Compilation Series: Kenora - Fort Francis Map 2443, 1979.

PROPERTY, LOCATION AND ACCESS

The property consists of 20 claims, all of which are portions of certain lots, in Mather and Potts Townships. It lies one lot west of the road from Emo to Clearwater Lake some 21 kilometers north of Emo and 5 kilometres south of Clearwater. Emo is a little town on the Rainy River, 33 kilometres west of Forth Francis on Highway No.11.

The claims are numbered and described as follows:

1001124	=	NE	portion	S1/2	Lot	4,	Conc.II,	Potts	Twp.,	recorded	Dec.22/87
1001135	=	NW	"	"	"	"	"	"	"	"	Dec.22/87
1011872	=	SW	"	"	"	"	"	"	"	"	Dec.22/87
1020550	=	SE	"	"	"	"	"	"	"	"	Dec.22/87
1020551	=	NE	"	N1/2	"	Conc.I,	"	"	"	"	Dec.22/87
1020552	=	NW	"	"	"	"	"	"	"	"	Dec.22/87
1020553	=	SW	"	"	"	"	"	"	"	"	Dec.22/87
1020554	=	SE	"	"	"	"	"	"	"	"	Dec.22/87
1020555	=	NE	"	S1/2	"	"	"	"	"	"	Dec.22/87
1020556	=	NW	"	"	"	"	"	"	"	"	Dec.22/87
1020557	=	SW	"	"	"	"	"	"	"	"	Dec.22/87
1020558	=	SE	"	"	"	"	"	"	"	"	Dec.22/87
1020559	=	NE	portion	N1/2	Lot	2,	Conc.VI,	Mather	Twp.,	"	Dec.22/87
1020560	=	NW	"	"	"	"	"	"	"	"	Dec.22/87
1020957	=	SW	"	"	"	"	"	"	"	"	Dec.22/87
1020958	=	SE	"	"	"	"	"	"	"	"	Dec.22/87
1020959	=	NE	"	S1/2	"	"	"	"	"	"	Dec.22/87
1020960	=	NW	"	"	"	"	"	"	"	"	Dec.22/87
1063158	=	NE	"	N1/2	Lot	3,	"	"	"	"	Jul.12/88
1063159	=	SE	"	"	"	"	"	"	"	"	Jul.12/88

HISTORY

This ground was held by the canadian exploration arm of International Nickel Company during the early seventies (CANICO). It had been staked as part of a joint venture with Hudson Bay Oil and Gas to explore a large area southeast of the Lake of the Woods.

The assessment files (Ref.1) contain drill logs of this work and the accompanying plan and drill sections "Canico - Finland Holes" are reconstructed from those logs. There was no field plan, or electromagnetic map in the file. The little sketches that accompany the drill logs and show the holes in relation to the claim corners do not match the latitude and departure of the holes, the error being in the order of 100 to 150 feet. However, I am almost certain that their first hole, No.48577, is properly located on the accompanying geological survey plan. We found a good, old, bush road leading by that location and an elongated clearing for the hole and stiff leg. The other holes are located by their logged location with respect to the first one. There are some old roads and partial clearings in their vicinity but the locations are less certain.

From the drill hole layout it is clear that the original aereoelectromagnetic anomaly that induced them to stake the property was subsequently found on the ground to lie between the 3 drill holes and strike to the northwest.

The first hole (48577) encountered a little zinc and copper sulphides in the upper portions in gabbro. Then at 189 feet in very fine grained rhyolitic tuff and quartz breccia there was almost a foot of 25% pyrrhotite in streaks and blebs with pyrite and chalcopyrite, followed by 1.3 feet of 50% massive pyrrhotite with 1% chalcopyrite and sphalerite. Lesser mineralization continued and at 205 feet there was almost half a foot of 20% massive sphalerite. The hole continued, very chloritic until the end at 226 feet.

Their second hole (48578) was drilled towards the first from 455 feet ahead of it. There was no gabbro in this hole as in the first one, which was about one-half gabbro. The usual dacitic rocks of the hole were barren, but a couple of short sections (one-half to 2 feet) of the central

45 feet of schist had 3 to 5% sulphides, mostly pyrrhotite and pyrite with a little chalcopyrite. This hole stopped at 190 feet, leaving an unexplored gap between it and the first hole of what seems to be 180 feet.

The third hole (48595) was drilled a year later, 600 feet along strike to the northwest and parallel to the second one. It encountered mostly granitic rocks with some gabbro in the centre that carried scattered sulphides. At 217 feet near the end of a granitic section there was 3 feet of minor banded sulphides, pyrrhotite, pyrite and chalcopyrite, with one 4-inch band of 30% sulphides. Amphibolite followed that with 5 feet of scattered pyrite and magnetite.

No further work is known to have been done and the ground eventually came open again.

GENERAL GEOLOGY

The property lies within the 6 to 16 kilometre wide zone of basic lavas with some interbedded acidic types that extends south-southwest from Sioux Lookout, through the Dryden area, Manitou Lakes and Pipestone Lake, and seems to go on into Minnesota.

This steeply dipping series of volcanics is reflected on the aeromagnetic maps by a band of irregular high magnetics and on the gravity maps of Canada it shows as an undulating high reflecting the dense nature of the basic rocks.

The Finland stock of quartz monzonite has intruded the series within a couple of kilometres of the property to the northwest. A similar stock, "the Black Hawk", lies 5 kilometres to the west. Then there is a great granodioritic batholith underlying most of Fleming Township to the east.

With all this nearby granite the rocks exposed on the property are highly altered, to the amphibolite phase. No greenschist volcanics were seen, so what they were originally is very uncertain.

ROCK TYPES

The rocks seem now to be the amphibolite facies of a series of basic to acid lavas with occasional interbeds of sediments, all of which are now often altered to gneisses and sometimes a schist. Reference 2 calls them altered sediments and Reference 3, altered volcanics. Rather than enter into the argument I prefer to call them as they appear to be from field examination:

Gabbro gneiss is a black to very dark grey, rice to table salt grained rock, made up of mostly hornblende with some biotite and a little quartz. It is now an alternating series of dark grey to black bands varying from one-half to 3 or 4 feet in length. Some of the bands are occasionally garnetiferous.

Diorite gneiss is very similar to the above except that it appears to be less basic as it is grey to light grey in colour and may have some quartz.

Quartz diorite is a grey to light grey usually massive, rice size grained rock found in the northwestern part of the property that might be an intrusive. In fact it could be the edge of the Finland Stock termed a granodiorite by Blackburn (Reference 3).

Feldspar porphyrys of a few inches to a few feet in width occur crosscutting the foliation and the bedding. The phenocrysts are grape to apple size and sometimes a little quartz veining occurs alongside the dykes.

Rhyolite is a light grey to white rock, fine of grain, which is rarely exposed on the property. A little was found in the first and second holes of the Canico drilling, some of it mineralized.

STRUCTURE

North of the property, where the volcanic sequence is still of greenschist facies, Blackburn (Reference 3) has shown the series to be a homocline, almost vertical, with tops facing southeast. Presumably this condition extends into the more altered rocks of the property. The Canico holes display a dip to the southwest in claim 1020559 so that by here the beds are probably overturned. The great Quetico Fault system cuts east-west across the country from 1 to 3 kilometres south of the claim block. In fact within half a kilometre all the shearing is east-west. The apparent righthand throw of this fault system has been estimated to be close to 100 kilometres.

Elsewhere along the fault the formations bend normally into the fault zone consistent with the concept of the righthand movement. Here they do not, but rather, they curve into the area of the fault zone as though it were a lefthand horizontal throw. Thus there may be another tight fold just beyond these last exposures creating a sharp "S" fold structure closer to the main fault. This kind of thing happened about 10 miles west of Mine Centre, but on a grand scale (Reference 4).

CONCLUSIONS

1. The degree of alteration and intensity of folding seems to increase toward the south end of the property as the Quetico Fault is approached, which is as expected. Hence the southern 4 claims, in the swamp, may be underlain by complex geology.

2. The zinc and copper sulphides found disseminated in some of the previous drilling and occasionally in narrow massive bands should be re-investigated to see if the quantity improves with depth.
3. The average 30° core angle in the first hole, combined with the 60° angle of intersection in the second and third holes, and the 45° dip of all holes, gives the true dip of the formations to be about 75° to the southwest.
4. The first and second holes drilled by Canico do not adequately cover the ground between them. There appears to be some 180 feet of untested rock in the immediate vicinity of the old E.M. anomaly.

RECOMMENDATIONS

1. Relocate the old aeroelectromagnetic anomaly on the ground with vertical loop E.M. equipment. It should be detailed on lines 200 feet apart for its entire length within the property,
2. Select a series of samples of the rocks in the vicinity of the old drill holes and see if gold, copper or zinc exists in unusual quantities in any of them.
3. Run a biogeochemical line of sampling over the first drill hole and well on beyond the second one looking for an anomalous metal zone. Sample interval should be around 50 feet, tree bark is better than forest litter, and the only ubiquitous tree is poplar, but there is not much prior data on poplar.
4. A line or two of Self Potential survey might pick up the near surface sulphide mineralization.

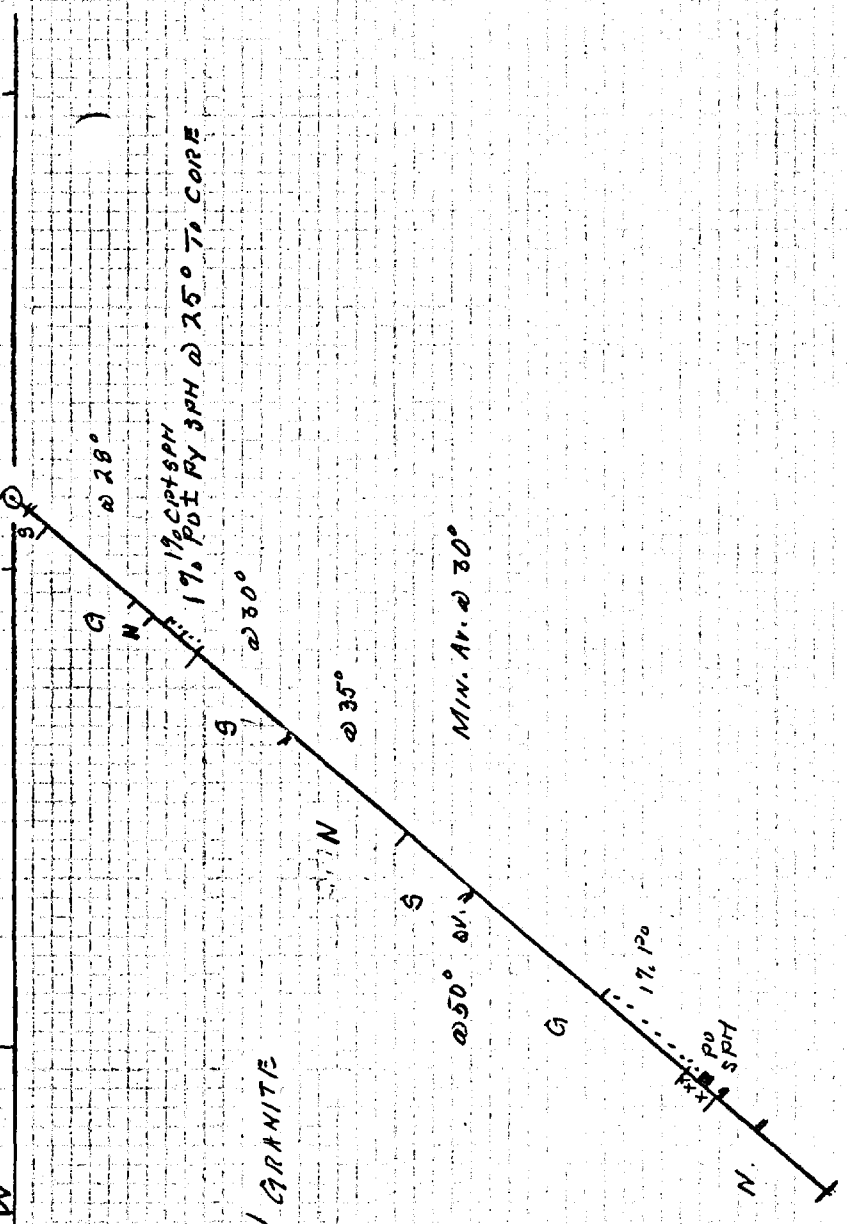
5. A line of magnetometer surveying over the first hole and beyond to and including the lake would:
 - (a) confirm the dip of the formations;
 - (b) show the intensity of the apparent magnetometer low that is indicated on the aeromagnetic maps to lie in or under the lake.
6. If any encouragement is obtained by the above, a couple of lines of gravity survey with attendant level survey over the electrical anomaly would indicate the likelihood of a massive ore body at depth.
7. If such is indicated some deep holes of 1000 to 2000 feet will be required to probe the zone.

Respectfully submitted.

A handwritten signature in black ink, appearing to read "Michael Ogden", written over a horizontal line.

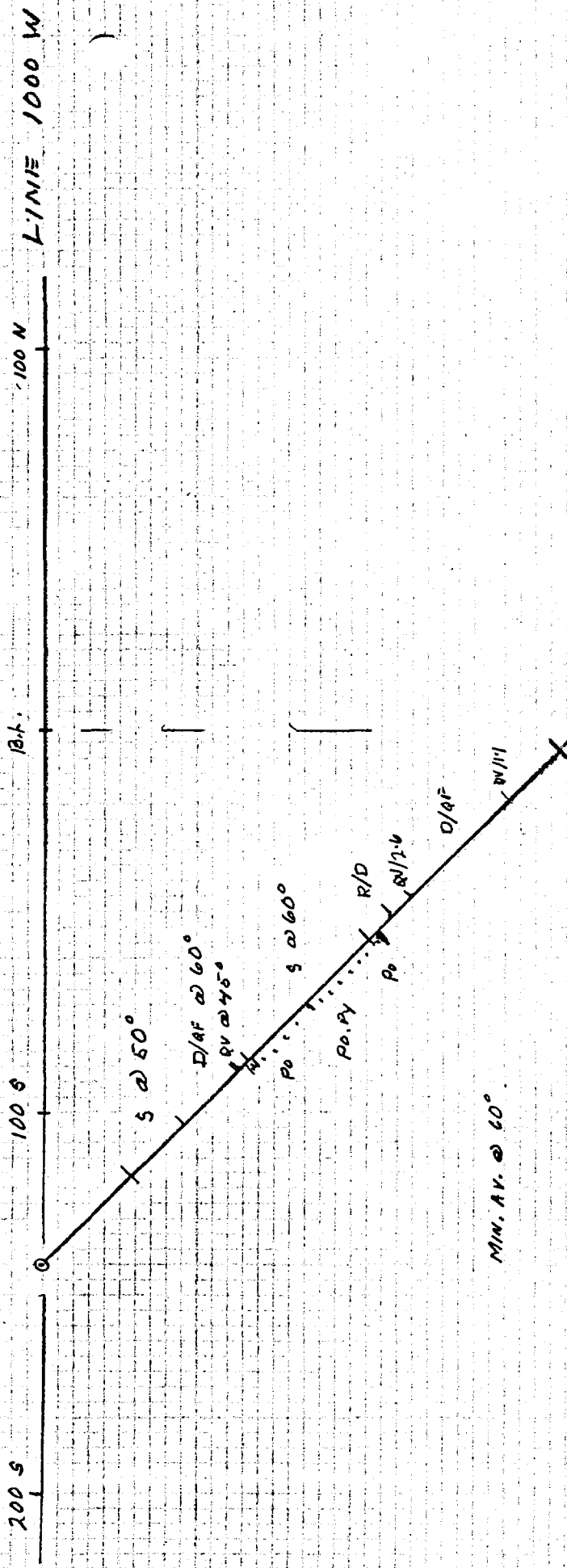
Michael Ogden, B.A.Sc., P.Eng.

100N LINE 1200 W 300 N 400 N



- SCHIST / META SEDIMENTS?
- GABBRO / AMPHIBOLITE
- QUARTZ - FELDSPAR PORPHYRY / GRANITE
//// = SHEARED YALTRISQ.
- BRECCIA = Q FRAGMENTS
IN FG. DIORITE
- DIORITE LIKE QF
- RHYODACITE

CANICO/FINLAND HOLE 48577
 FACING N.W.
 1 IN = 40 FT.
 OGDEN JAN 88



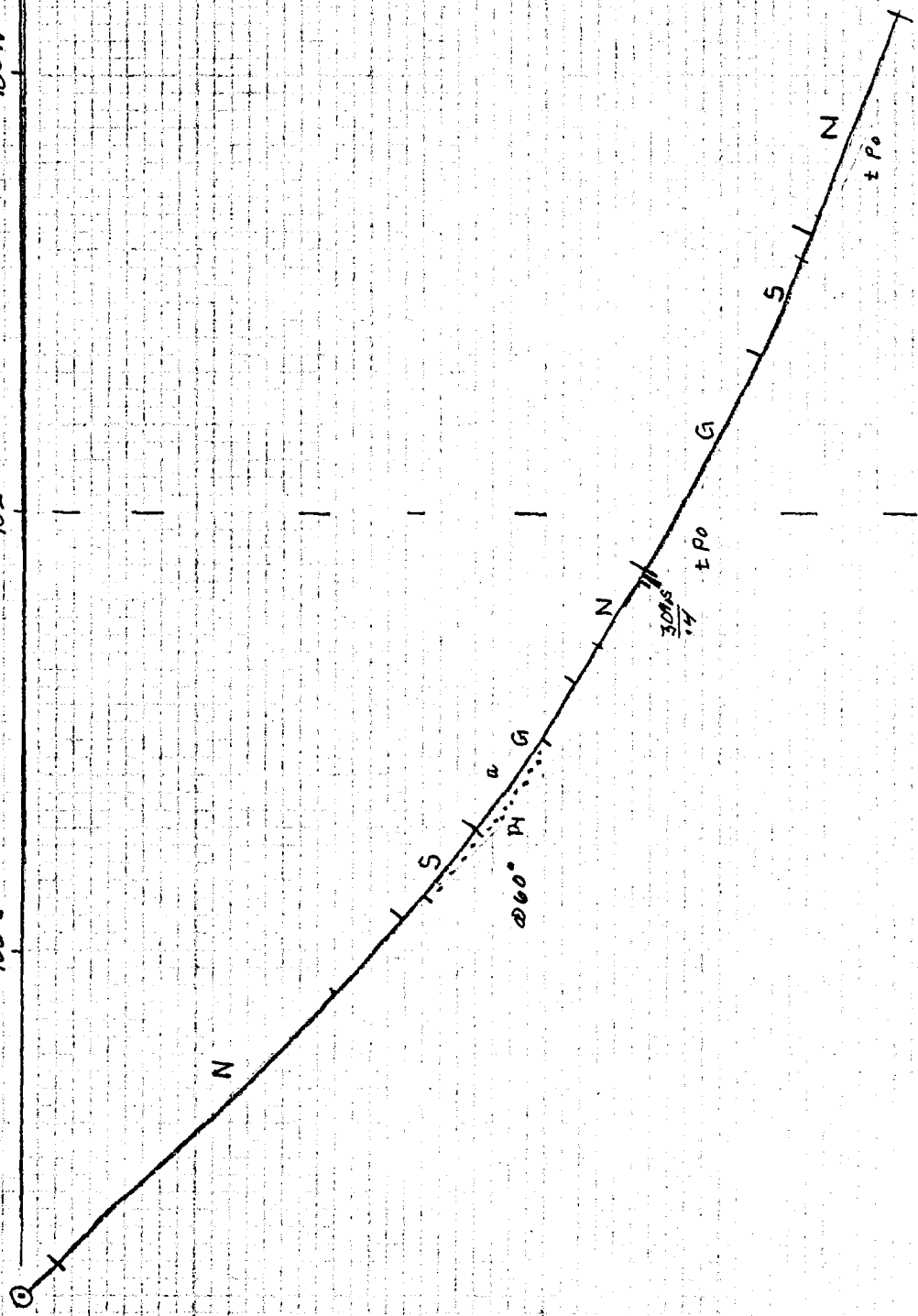
CANICO-FINLAND #48578
 FACING N.W.
 1 IN = 40 FT
 OGDEN JAN 88

2005 100 S 100 N LINE 1600 W

101

100 S

2005



CANICO-FINLAND #48595
 FACING N.W.
 1 IN. = 40 FT
 OGDEN
 JAN 68



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

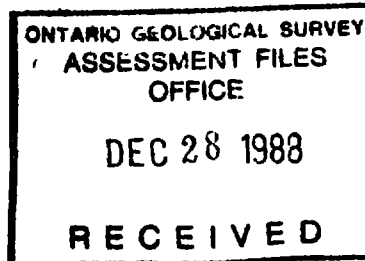
Mining Lands Section
3rd floor, 880 Bay Street
Toronto, Ontario
M5S 1Z8

Telephone: (416) 965-4888

December 15, 1988

Your file: W8801-288
Our file: 2.11817

Mining Recorder
Ministry of Northern Development and Mines
808 Robertson Street
P.O. Box 5200
Kenora, Ontario
P8N 3X9



Dear Sir:

Re: Notice of Intent dated November 28, 1988 - Geological Survey
submitted on Mining Claims K 1001124 et al in Mather & Potts Township

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

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

Yours sincerely,

W.R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division

D.K. DK:p1
Enclosure

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

Resident Geologist
Kenora, Ontario

Mr. Walter M. Cummings
240 Markland Drive
Etobicoke, Ontario
M9C 1R3

Mr. Michael Ogden
R.R. #4
Stouffville, Ontario
L4A 7X5



2,11817
Mining Act

Type of Survey(s) GEOLOGICAL		Township or Area MATHER & POTTS	
Claim Holder(s) WALTER M CUMMINGS		Prospector's Licence No. A-49386	
Address 240 MARKLAND DRIVE, BTOBICOKE, ONT. M9C 1R3			
Survey Company H.B. & O. ENGINEERING LTD.	Date of Survey (from & to) 2 7 88 11 11 88 Day Mo. Yr. Day Mo. Yr.		Total Miles of line Cut NIL
Name and Address of Author (of Geo-Technical report) MICHAEL OGDEN RR 4 STOUFVILLE, ONT. L4A 7K5			

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	20
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
K	1001124				
	1001135				
	1011872				
	1020550				
	1020551				
	1020552				
	1020553				
	1020554				
	1020555				
	1020556				
	1020557				
	1020558				
	1020559				
	1020560				
	1020957				
	1020958				
	1020959				
	1020960				
	1063158				
	1063159				

Expenditures (excludes power stripping)

Type of Work Performed
Performed on Claim(s)
Calculation of Expenditure Days Credits
Total Expenditures \$ <input type="text"/> ÷ 15 = Total Days Credits <input type="text"/>

Total number of mining claims covered by this report of work. **20**

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only			
Total Days Cr. Recorded	Date Recorded	Mining Recorder	
	Date Approved as Recorded	Branch Director	

Date Nov 11, 1988	Recorded Holder or Agent (Signature) <i>Michael Ogdén</i>
-----------------------------	--

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying MICHAEL OGDEN, RR 4 STOUFVILLE ONT. L4A 7K5		
Date Certified Nov. 11/88	Certified by (Signature) <i>Michael Ogdén</i>	



2.1181 Mining Lands

Mini

Type of Survey(s) GEOLOGICAL #8801-288	Township or Area MATHER & POTTS-M-2109
Claim Holder(s) WALTER M CUMMINGS	Prospector's Licence No. A-49386
Address 240 MARKLAND DRIVE, STONIFVILLE, ONT. M9C 1R3	
Survey Company H.B. & O. ENGINEERING LTD.	Date of Survey (from & to) 27 88 11 88 Day Mo. Yr. Day Mo. Yr.
Total Miles of line Cut NIL	
Name and Address of Author (of Geo-Technical report) MICHAEL OGDEN RR 4 STONIFVILLE, ONT. L4A 7X5	

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	20
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.
K	1001124	
	1001135	
	1011872	
	1020550	
	1020551	
	1020552	
	1020553	
	1020554	
	1020555	
	1020556	
	1020557	
	1020558	
	1020559	
	1020560	
	1020957	
	1020958	
	1020959	
	1020960	
	1063158	
	1063159	

Expenditures (excludes power stripping)

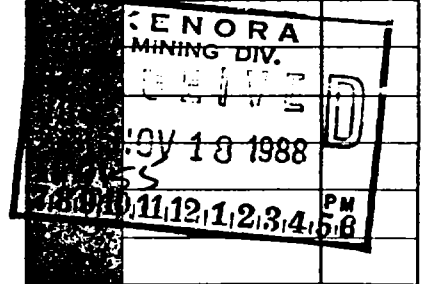
Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.



1001124

Total number of mining claims covered by this report of work. **20**

Date **Nov 11, 1988** Recorded Holder or Agent (Signature) *Michael Ogd*

For Office Use Only

Total Days Cr. Recorded **400** Date Recorded **Nov-18/88** Mining Recorder *Keith Rivett*

Date Approved as Recorded **Nov 11/88** Branch Director

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying
MICHAEL OGDEN, RR 4 STONIFVILLE ONT. L4A 7X5

Date Certified **Nov. 11/88** Certified by (Signature) *Michael Ogd*



Recorded Holder Walter M. Cummings
Township or Area Mather and Potts Townships

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological <u>20</u> days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	K-1001124 1001135 1011872 1020550 to 60 inclusive 1020957 to 60 inclusive 1063159

Special credits under section 77 (16) for the following mining claims

10 days Geological
K-1063158

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

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

NOTES

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

This Township lies within the Corporation of the Township of Chapple

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

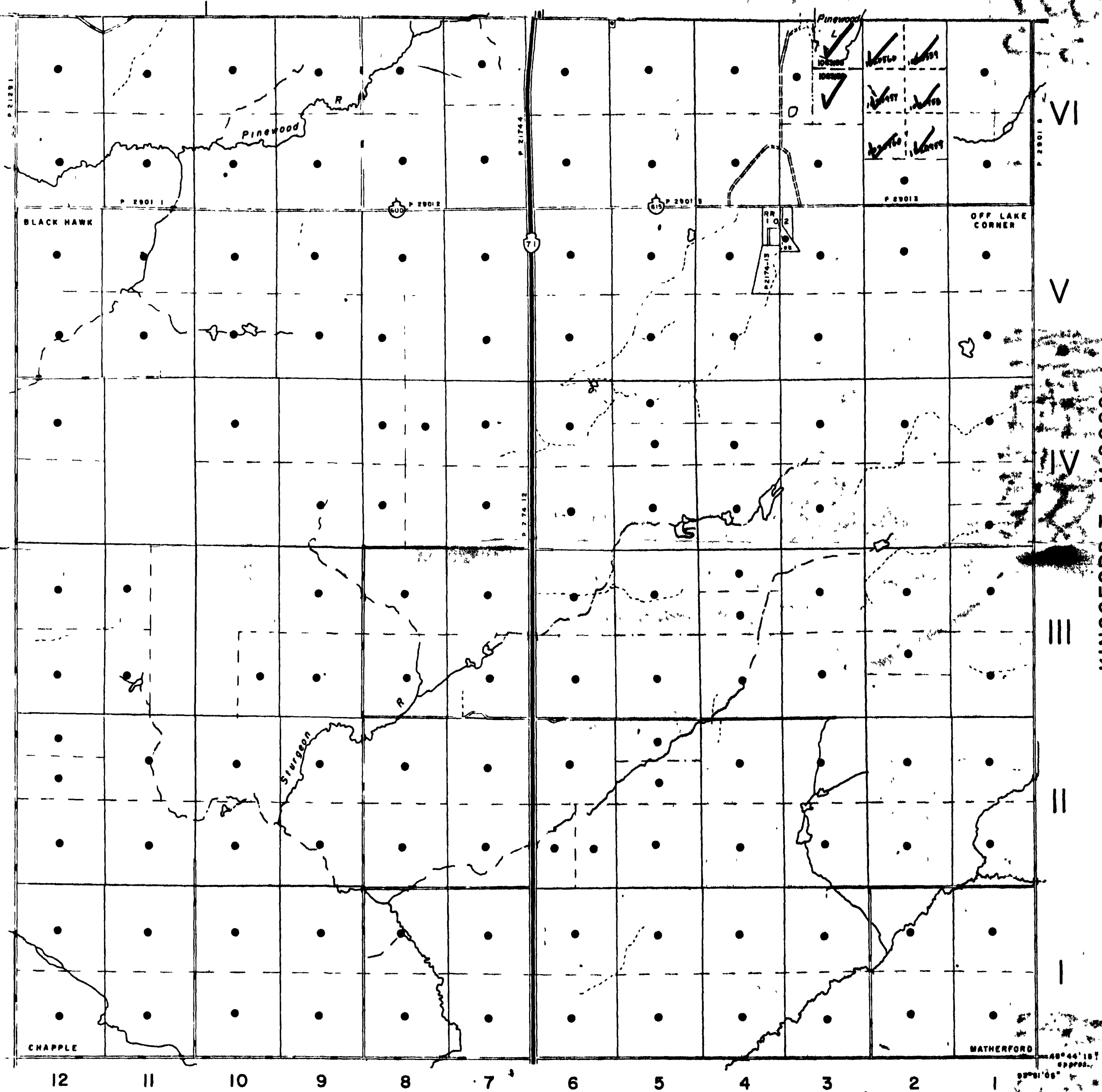
RICHARDSON Tp M 2115

POTTS Tp. M. 2109

TAIT Tp. M. 2124

KINGSFORD Tp. M. 2089

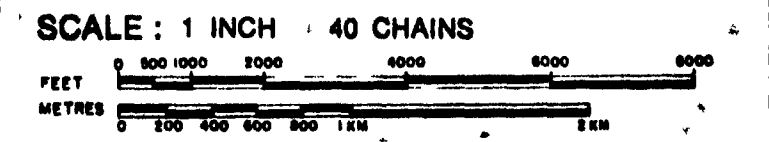
DOBIE Tp. M. 2079



HIGHWAY AND OTHER ROADS	
TRAILS	
SURVEYED LINES	
TOWNSHIPS, TOWNSHIP LOTS, MINING CLAIMS, PARCELS, ETC.	
UNSURVEYED LINES	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON-PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION	
ORIGINAL SHORELINE	
MARSH OR MUSKEG	
MINES	

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LEASE, SURFACE RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
CROWN LAND RESERVATION	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	



TOWNSHIP
MATHER
DISTRICT
RAINY RIVER
MINING DIVISION
KENORA

Ministry of Natural Resources
Ontario Surveys and Mapping Branch
Date: _____ Plan No: **M.209**
Whitby, Ontario
Queen's Printer, Toronto

KENORA MINING DIV.
RECEIVED
JUL 15 1988
AN 78910112123456 PM



NOTES

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

This Township lies within the Corporation of the Township of Chapple

SAND & GRAVEL

- ④ MTC Gravel Pit File 8132
- ⑤ MTC Pit 417
- ⑥ " Pit 416

RESERVES

||||| M N Y M A S S I S S I P P I

Areas withdrawn from staking under Section 49 of the Mining Act

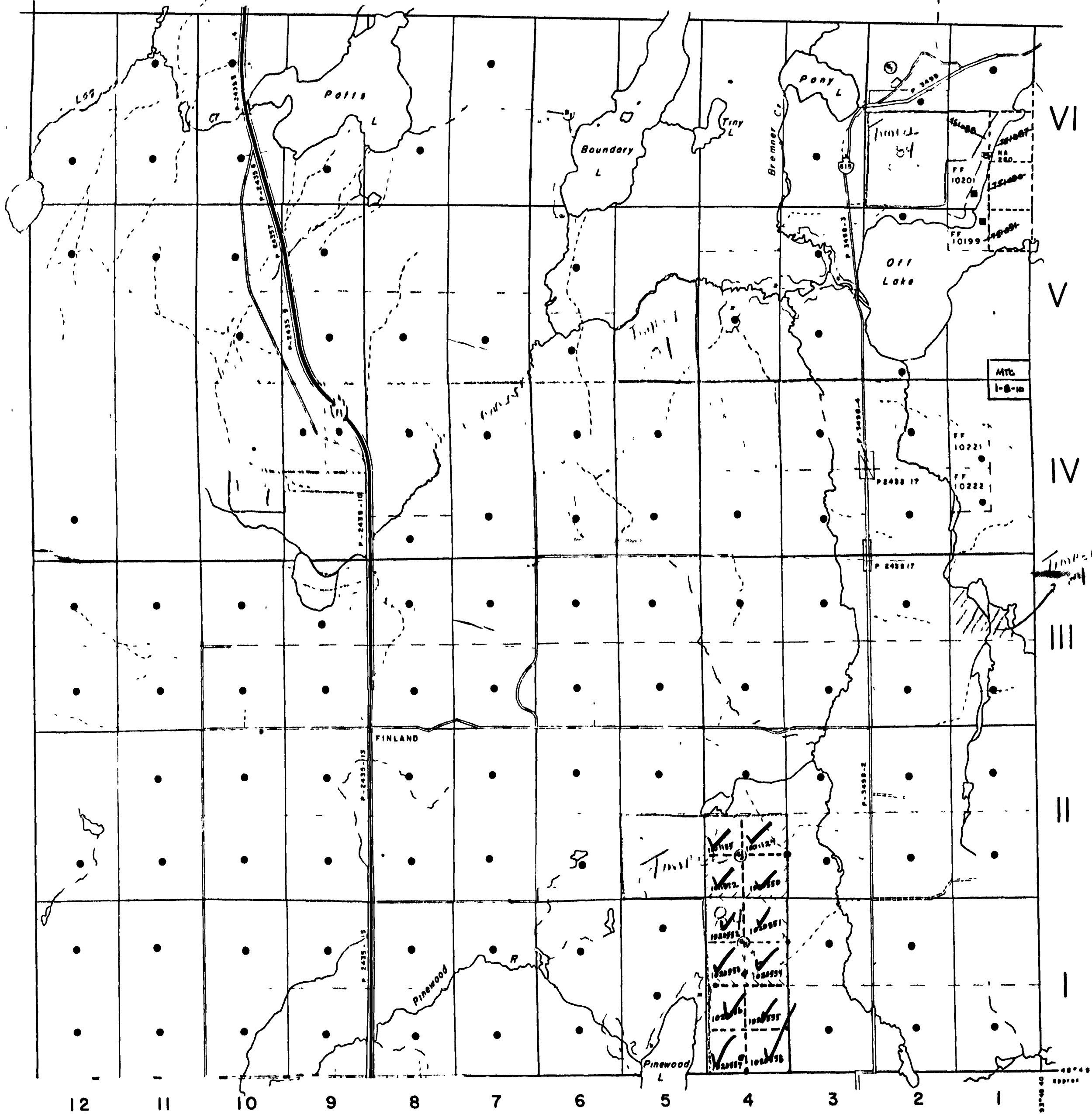
File	Date	Disposition

MENARY Tp. M.2068

SENN Tp.

RICHARDSON Tp. M.2075

FLEMING Tp. M.2083



MATHER Tp. M 2097

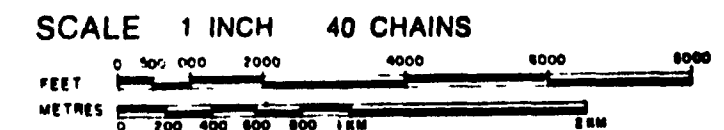
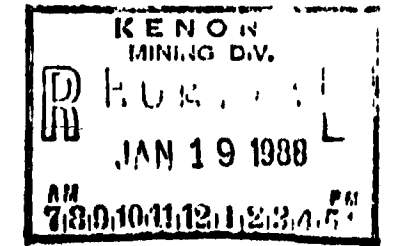
KINGSFORD Tp M 2089

LEGEND

- HIGHWAY AND ROUTE No
- OTHER ROADS
- TRAILS
- SURVEYED LINES
 - TOWNSHIPS BASE LINES ETC
 - LOTS, MINING CLAIMS, PARCELS, ETC
- UNSURVEYED LINES
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LEASE SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
CROWN LAND SALE	
ORDER IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	



ACRES	HECTARES
40	16

TOWNSHIP

POTTS

DISTRICT

RAINY RIVER

MINING DIVISION

KENORA



Ministry of Natural Resources

Ontario Surveys and Mapping Branch

Date 12 74

Plan No

Whitney Block Queen's Park, Toronto

M.2109



52C135W0003 2 11817 MATHER

To Off Lake
5 Km

LOT 5

LOT 4

LOT 3

N 1/2 CONS II

S 1/2 CONS II

N 1/2 CONS I

S 1/2 CONS I

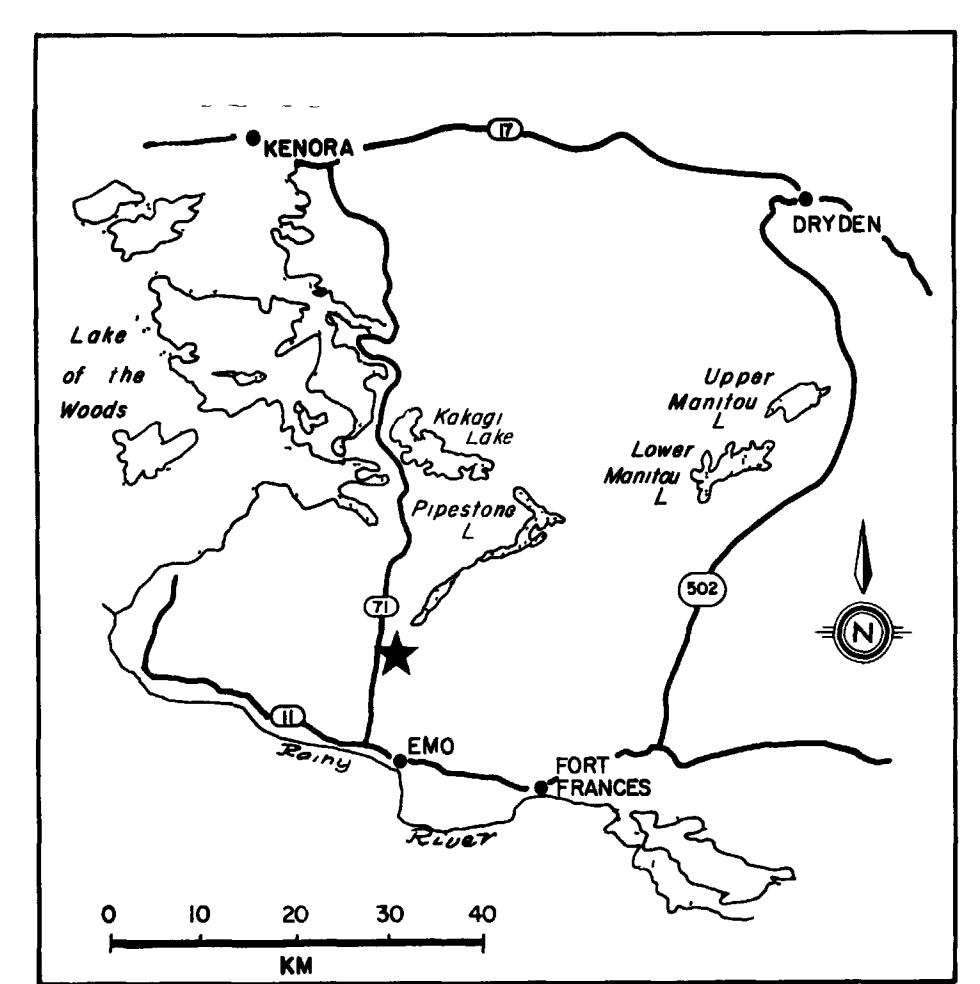
N 1/2 CONS VI

S 1/2 CONS VI

LOT 3

LOT 2

LOT 1



LEGEND

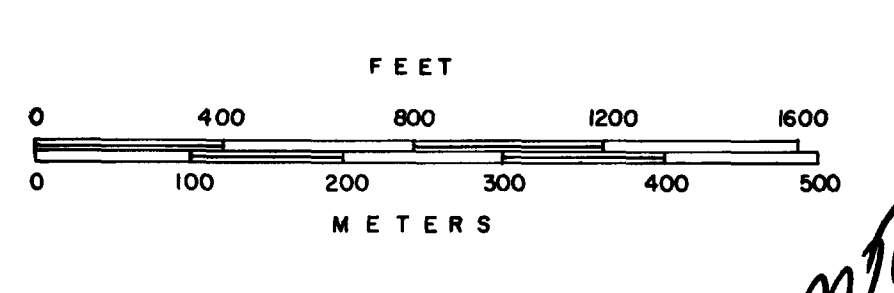
- G/g Gabbro gneiss
- Rice grain/sugary gran
- D/di Diorite gneiss - as above
- Q Di Quartz diorite gneiss
- Dacite gneiss
- GT Granite (in small lenses)
- F Felsite
- FP Feldspar dyke
- Ry Rhyolite

- MSV Massive iron gneiss but still with vague orientation of grain
- NVM No visible mineralization
- QS Quartz stringers
- Py, CP, BI Pyrite, Chalcopyrite, Biotite
- R Rusty
- || Parallel

- ↘ Dip and strike of bedding
- ↘ Dip and strike gneissosity or shear
- ⊕ Coniferous bush
- ⊕ Deciduous bush
- ⊕ Poplar suckers
- ⊕ Spruce/Cedar swamp
- ⊕ Tag Alder swamp
- ⊕ Open marsh land
- Traverser line
- Lot parcel boundary (approx)
- Claim post observed (but property is defined by lot portions not posts)
- Approximate location of Inco 1972 & 1973 DDH
- === Bush road (4 x 4)
- ⊕ Mound or hill
- ★ From ODM Map 1954-2

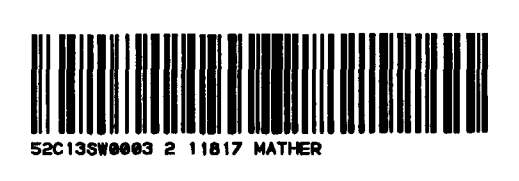
2.11817

WALTER M. CUMMINGS
FINLAND PROPERTY
KENORA-FORT FRANCES DIST, ONTARIO
GEOLOGICAL SURVEY



July 1988

By Michael Ogden, P. Eng.



48577 (MAY 72)

1600 W

APPARENT DIP OF FORMATIONS
75°

1% Po
1% Po

1% Po
1% Po

1% Po
1% Po

N

S

Q

tpo

1500 W

1400 W

1300 W

1200 W

1100 W

1000 W

30% S/4'

N

Q

py
0.60°

S

N

QV
D/QF

QV
R/D

po
S

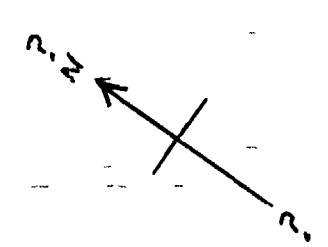
po
QV
D-QF

S

S

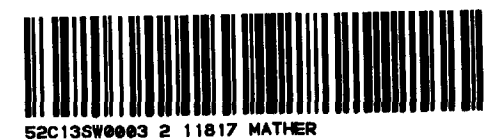
48578 (MAY 72)

48595 (JUN 73)



ON BIG GRAVITY HIGH, UP FROM U.S. (IS ON EDGE OF IT)
VERT LOOP E.M. NO I.P. NO S.P.

CANICO-FINLAND HOLES
IN PLAN ON GRID
1 IN. = 40 FT.
OGDEN JAN 88



52C135W0003 2 11817 MATHER