



41P15NE8701 2.15082 CAIRO

010

FINAL SUBMISSION

DENIS CHARTRE AND ROGER DUFRESNE

OP92 - 520 AND OP92 - 521

1992 12 21

CAIRO TOWNSHIP

DUFRESNE - CHARTRE - 1992 - PROPERTY
(seven claims staked in 1991 and two claims staked in 1992)

Claims 1179885, 1179886, 1179887, 1179888, 1179889,
1179890, 1185634, 1185635, 1185636.



41P15NE8701 2.15082 CAIRO

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SUMMARY

The Matachewan Area, in the District of Timiskaming located in Northern Ontario drew the attention of many gold prospectors as early as 1909 with the height of activity in the 1930's.

Past gold exploration had focused on the search for quartz veins near shear zones and faults with intrusions in the syenite porphyry.

Over the years other minerals have been found in small quantities: barite, asbestos, copper, lead, silver, zinc, molybdenite, and others.

In December, 1990 interest in base metals had come to life in the Matachewan Area with the copper discovery in Robertson Township, 9 miles north of Matachewan, by Strike Minerals Inc. and Queenston Mining Inc., two exploration companies based in Kirkland Lake. In the 1991 Annual report for Queenston Mining Inc., Queenston explains the geology as a small lens of volcanogenic massive sulphides which occur in a thick pyritic exhalite sequence. The discovery hole returned 1.45% copper and 4.7% zinc over a core length of 30.8 feet. Further work by Queenston and Strike also identified a favourable base metal stratigraphy extending 6.5km across the property. In 1992 the property was optioned to Falconbridge.

Exploration Trinity also indicates participation in Matachewan copper discovery and provides us with a general geology and location sketch. (see annex *p. 96*)

Another General Geology map of the Matachewan Area is provided for us by W. Powell, from Queen's University. (see annex *p. 95*)

After taking a long look at all the information Denis Chartre and Roger Dufresne decided to look at new ground which would have some potential as a gold-base-metal prospect in Cairo Township. As a result we prospected the old Matachewan Hub Pioneer Property in Cairo Township where it was reported that the bedrock was composed of greenstone and rhyolite cut by diabase dikes and Cobalt sedimentary rocks. The other property that was prospected was the George Sunisloe Property (on the south side of the Montreal River (see map 2110); here, it was reported that for a length of more than a mile southwest from Fox Rapids and for a maximum width of 400 feet, mafic intrusive rocks on the south shore of the Montreal River are highly sheared. Near the southwest end of this major shear zone, about 700 feet north of a

granite batholith, a boss of massive granitic rocks about 600 feet in diameter has been intruded into the sheared mafic intrusive rocks. Again, it was reported that small amounts of chalcopyrite exist in the boss near its contact with the sheared diorite and serpentinite, and quartz-carbonate stringers cutting the diorite and serpentinite contain chalcopyrite, pyrite, hematite, and magnetite.

Seven claims were staked in the fall of 1991 and two more were staked in the spring of 1992. In the fall of 1991 many grab samples were taken for assay for copper and gold. The best assays were .04 oz/ton Au and 3.74% Cu for sample AA-1 and .06 oz/ton Au and 2.23% Cu for sample AA-3 (see Swastika Lab certificate # 1W-4108-RA1 dated Oct. 3, 1991.)

Since no work had been done on these claims since 1966, Roger Dufresne and Denis Chartre believed that it was time for the property to have another evaluation using a new approach and up-to-date prospecting methods. The plan was to locate and clean out all the pits using manual labour and power strip where it was possible using Wajax high pressure pump, take samples, do line cutting and complete a Mag Survey, put together geological mapping and finally, prepare recommendations for future work.

Ed Chartre of Services Explorations Enrg. who mapped the Prospecting Program - 1992 on the 10 stripped sites explains that the exposed rock surfaces and local outcrops indicate the presence of a granodiorite with dioritic phases. A major fault zone traverses the northwestern part of the property in a northeasterly direction. This fault zone lies mostly under the bed of the Montreal River. The fault has been exposed in trench (area 7) where the rock exposure indicates the presence of strongly sheared granodiorite while shearing increases northwestwards towards the river. This strong fault zone has fractured the adjacent granodiorite with most of the quartz-filled fractures trending northeasterly. The numerous fractures observed are host to quartz veins which vary in length and width. The quartz veins and adjacent sheared walls contain disseminated hematite, magnetite, chalcopyrite and pyrite. The strongest concentration of chalcopyrite is in trench # 7. The highest gold assay returned 240 ppb and the highest copper assay returned 2.48%. The pervasive distribution of low gold values would seem to indicate the presence of a gold-bearing system within the fault zone under the Montreal River. (see report annex (P.3))

Ed Chartre of Services Explorations Enrg. carried a magnetometer survey on the Chartre-Dufresne Cairo Property with the purpose of outlining fault zones as possible prospecting targets. 2.8 line km were covered using an Exploranium G-816

proton magnetometer on claims 1179886, 1179887 and 1179890. The results show two northwest trending faults. These two fault zones appear to be good targets for systematic prospecting in order to find more information regarding the presence of gold-bearing structures. (see report annex P.53")

Howard Lovell, former geologist with M.N.D.M. visited the property twice and provided interesting observations. Howard explains that in as much as the chalcopryite-bearing quartz-carbonate veins fill fractures in this diabase, perhaps the chalcopryite originated post diabase or was remobilized from older basement rocks by the intruding diabase. The chalcopryite in the serpentinite along one claim length of the Montreal River shore between high and low water levels tends to occur along the numerous slip planes and as fracture fillings both accompanying quartz gangue and silicification, and also as chalcopryite alone. Howard suggests that diamond drilling should take into account the cliff under the Montreal River below the low water level. (See report annex (P.67")

Acknowledgements

Denis Chartre and Roger Dufresne wish to acknowledge the assistance of Howard Lovell, retired M.N.D.M. Geologist who is very familiar with the property and the surrounding area having mapped Cairo Township in 1964 with a field party. Howard has helped us over a number of years and has provided us with guidance and very good advice.

We also wish to thank David Bending, Senior Geologist with Homestake Canada Ltd., who visited our Holmes-Flavelle Property and our Cairo Property and has provided for us, a compilation map for the Holmes-Flavelle Property and assays, whole rock analysis and comments for the Cairo Property. (see annex P.92")

Other important visitors to our Cairo Property were Gary Grabowsky, Geologist with Incentives Branch of M.N.D.M. and Gerhart Meyer, Resident Geologist with M.N.D.M.. The visit of Gerhart and Gary was both timely and appreciated by both Denis Chartre and Roger Dufresne. Both Gary and Gerhart were able to provide advice, direction in our current project. (see photos at annex "P.98")

We would also like to thank Ed Chartre of Services Explorations Enrg. for a fine report.

Finally, Denis Chartre and Roger Dufresne would like to thank Maurice Houle, field Geologist with Falconbridge and Bruce Geoffrey, Senior Geologist with Falconbridge with the property visit. (Report and assays to follow if available)

Description of Property

Denis Chartre and Roger Dufresne staked a total of nine contiguous claims in Cairo Township. The claim numbers are: 1179885, 1179886, 1179887, 1179888, 1179889, 1179890, 1185634, 1185635, 1185636.

The property consists of the old Matachewan Hub Pioneer Property and the former George Sunisloe Property. (references 16 and 18 on map 2110 Powell and Cairo Townships Timiskaming District) (see Cairo claim map dated June 10, 1992)

Location

The property is located in the southwest sector of Cairo Township about one mile east of the community of Matachewan, Ontario. Highway 66, between Matachewan and Kirkland Lake, is located a few hundred feet north of the Montreal River which forms part of the property. The claims are south of the eastern bend of the Montreal River. (see Cairo claim map dated June 10, 1992)

ACCESS

The property is accessed by truck. We travel West 59k. from Kirkland Lake along Highway 66 to Matachewan. About one mile East of Matachewan, a boat is launched at the Hub Pioneer Park into the Montreal River. The claims can be found across the river and the stripped areas on claim #1179888 up river; the witness posts are visible from the water.

REGIONAL GEOLOGY

G. L. Kirwan, Consulting Geologist with North Expo Mines Limited explains in a report dated April 22, 1966 that Keewatin volcanic flows are the most abundant rock types in the Matachewan area, and two parallel east-trending synclines are formed by Temiskaming sediments in Cairo and adjacent Powell townships. These rocks are intruded by Algoman igneous rocks consisting of syenite and granite which in turn, have been intruded by north-trending diabase dikes. The flat-lying Cobalt Conglomerate lies with marked unconformity upon Precambrian formations. Shear zones in the Keewatin flows and pyroclastic rocks on the property contain mineralization consisting essentially of pyrite, pyrrhotite, and chalcopyrite, as well as iron formation.

PROPERTY GEOLOGY

Howard Lovell, staff geologist with M.N.D.M. in Geological Report # 51 Geology of the Matachewan Area, 1967, page 49 explains that for a length of more than a mile southwest from Fox Rapids and for a maximum width of 400 feet, mafic intrusive rocks on the south shore of the Montreal River are highly sheared. The strike of the shearing is approximately parallel to the shore of Montreal River, and the dip is south.

History

1964 - (circa) George Sunisloe staked 11 claims, dug pits and trenches, found gold and copper. The mineralized host rock is reported to be mainly diorite of Haileyburian age.

1965 - Rosmar Corp. Ltd. conducted a limited amount of self-potential work.

1966 - North Expo Mines Ltd. did a combined magnetic-electromagnetic survey on part of property.

1966 - North Expo Mines Ltd. drilled 1,001 feet.

1991 - Denis Chartre and Roger Dufresne prospected the general area; they discovered a number of old pits; they took a number of rock samples; the best assays were AA-1 and AA-3 which yielded .04 and .06 Au (oz/ton) respectively and 3.74% and 2.23% copper respectively. (See annex "P.91")

ECONOMIC GEOLOGY

In the Matachewan area gold is associated with pyrite and chalcopyrite (copper) found in quartz veins cutting syenite.

In the G. Sunisloe claim group, copper was reported as being found at the contact of sheared mafic intrusive rocks with granitic intrusive rocks.

RECOMMENDATIONS AND CONCLUSIONS

The current prospecting program included the stripping and trenching of 10 different sites along the southern bank of the Montreal River. All of the mineralized quartz veins and shear zones have been sampled and assayed for gold and copper.

A total of 32 samples have been assayed for gold and copper and a total of 15 samples have been assayed for gold only with the following results: 2 samples returned nil gold values, other gold samples range between 3 and 240 ppb. Copper values ranged between .05 to 2.48%.

The distribution of low gold values would seem to indicate the presence of a gold-bearing system within the fault zone.

The magnetometer survey has outlined numerous magnetic anomalies of random distribution - these are probably caused by variable concentrations of magnetite within the diorite intrusive. The magnetometer survey has also outlined the presence of 2 northwest trending faults.

1. Howard Lovell seems to recommend that the remainder of old pits should be located and freshened up in order to ascertain its significance and how the chalcopyrite occurs in rock types other than feldspar porphyry, granodiorite and diabase. (see report annex "P.67")
2. Both Howard Lovell and Ed. Chartre recommend that diamond drilling should take into account the cliff under the Montreal River below the low water level. (see Howard Lovell report annex "P.67") see Ed Chartre report (annex "P.31")
3. Ed Chartre recommends a systematic prospecting program along the indicated fault zones in an attempt to outline the presence of gold-bearing structures. (see magnetometer report at annex "P.53")



**ONTARIO PROSPECTORS ASSISTANCE PROGRAM (OPAP)
FINAL SUBMISSION FORM 1992**

INSTRUCTIONS: Please read the guidebook before completing form

Please type or print

Submit completed form and supporting documentation

by January 31, 1993 to:

Incentives Office (Mineral Development and Rehabilitation Branch)

Ministry of Northern Development & Mines

4th Floor, 159 Cedar St., Sudbury, Ontario P3E 6A5

TO BE COMPLETED BY SUCCESSFUL GRANTEES AFTER PROJECT COMPLETION AND ACCOMPANIED BY WRITTEN REPORTS, MAPS, ETC.

Applicant DENIS CHARTRÉ File Number OPAP-92-520

Proposed project area(s) (Twp. or claim map name, latitude and longitude) Completed?

1. CAIRO TWP. Yes No

2. _____ Yes No

Changes to proposed project(s) (if any)

N/A

List other co-owners of the property with OPAP grants that worked on project

ROGER DUPRESNE OPAP-92-521

I. WORK PERFORMED BY APPLICANT (Summary of Section IV)

1. Project #1 area/name CAIRO PROPERTY No. days worked
SOUTH MONTREAL RIVER by applicant
(that's only you)

Traditional prospecting	No. of samples	<u>47 ROCK</u>	<u>2</u>
<u>LINE CUTTING</u> Geological surveys	Scale		<u>2</u>
<u>MAGNETOMETER SURVEY</u> Geophysical surveys	Type	<u>G-016 PROTON Miles/km 2.8</u>	<u>1</u>
Geochemical surveys	Type	No. of samples	
Drilling	Type	Ft./m	
Stripping/Trenching	Method	<u>MANUAL & POWER STRIPPING</u>	<u>42</u>
Other	Type	<u>SELECTING TARGETS FOR STRIPPING</u>	<u>10</u>
<u>FILEING REPORT (3)</u>	<u>PROBATE VISITS</u>		
	<u>HELP MAPPING</u>		
	<u>TAKING OUT ALL EQUIPMENT</u>		
	TOTAL		<u>52</u>

IV. DAILY REPORTS (Summarize work activity in Section I)

Day	Project Area	Date	Work Performed
1	CLAIM NO 1179888	MAY 9/92	SELECTING & MARKING OLD PITS & TRENCHES TO BE STRIPPED
2	" " "	MAY 16/92	CUTTING & CLEARING OF BRUSH TREES
3	" " "	MAY 17/92	MANUAL STRIPPING - PICK & SHOVEL
4	" " "	MAY 18/92	MANUAL STRIPPING - PICK & SHOVEL
5	" " "	MAY 23/92	MANUAL & POWER POWER STRIPPING
6	" " "	MAY 30/92	MANUAL & POWER STRIPPING
7	" " "	MAY 31/92	MANUAL & POWER STRIPPING
8	" " "	JUNE 6/92	MANUAL & POWER STRIPPING
9	" " "	JUNE 7/92	MANUAL & POWER STRIPPING
10	" " "	JUNE 12/92	MANUAL & POWER STRIPPING
11	" " "	JUNE 13/92	MANUAL & POWER STRIPPING
12	" " "	JUNE 14/92	MANUAL & POWER STRIPPING
13	" " "	JUNE 20/92	CUTTING & CLEARING OF BRUSH TREES
14	" " "	JUNE 27/92	MANUAL & POWER STRIPPING
15	" " "	JUNE 28/92	MANUAL & POWER STRIPPING
16	" " "	JUNE 29/92	MANUAL & POWER STRIPPING
17	" " "	JUNE 30/92	MANUAL & POWER STRIPPING
18	" " "	JULY 4/92	MANUAL & POWER STRIPPING
19	" " "	JULY 5/92	MANUAL & POWER STRIPPING
20	" " "	JULY 10/92	MANUAL & POWER STRIPPING
21	" " "	JULY 11/92	MANUAL STRIPPING
22	" " "	JULY 12/92	MANUAL STRIPPING
23	" " "	JULY 13/92	MANUAL & POWER STRIPPING
24	" " "	JULY 17/92	PROPERTY VISIT FROM DAVE BENDING (HONEST STATE)
25	" " "	JULY 18/92	MANUAL & POWER STRIPPING ^{SAMPLES TAKEN}
26	" " "	JULY 19/92	MANUAL & POWER STRIPPING
27	" " "	JULY 24/92	MANUAL & POWER STRIPPING
28	" " "	JULY 25/92	MANUAL & POWER STRIPPING
29	" " "	JULY 26/92	MANUAL & POWER STRIPPING
30	" " "	JULY 31/92	MANUAL & POWER STRIPPING
31	" " "	AUGUST 1/92	MANUAL & POWER STRIPPING
32	" " "	AUGUST 2/92	MANUAL & POWER STRIPPING
33	" " "	AUGUST 3/92	MANUAL & POWER STRIPPING
34	" " "	AUGUST 4/92	MANUAL & POWER STRIPPING
35	" " "	AUGUST 6/92	MANUAL STRIPPING PICK & SHOVEL
36	" " "	AUGUST 7/92	MANUAL STRIPPING PICK & SHOVEL
37	" " "	AUGUST 8/92	MANUAL & POWER STRIPPING
38	" " "	AUGUST 10/92	MANUAL & POWER STRIPPING
39	" " "	AUGUST 15/92	PROPERTY VISIT BY GARY AND MOYER & GARY GABOWSKI
40	CLAIM NO 1179887 & 1179890	AUGUST 15/92	CUTTING GRID LINES
41	" " 1179887-1179890	AUGUST 16/92	CUTTING GRID LINES

Attach additional sheets as required.

V. SIGNIFICANT RESULTS (please complete)

Project Area	New Showings and/or Anomalies	Commodity	Best Analyses
CAIRO PROPERTY	PRESENCE OF 2 NORTHWEST TRENDED FAULTS		(3012 MAG. REPORT)
" "	STRIPPED	AU CU	AU 240 PAB
" "	AREA #2		CU 2.48 %

VI. CLAIMS STAKED DURING/AFTER PROSPECTING ACTIVITY (please complete)

Project Area	Claim Numbers	Number of Claim Units
CAIRO TWP	L-1185635	1
MAY/92	L-1185636	1

VII. OPTION AGREEMENTS RESULTING FROM OPAP PROJECT (please complete)

Optionee	Property/Claims	Dollar Value of Work Commitment
STILL AWAITING WORD FROM FALCONBRIDGE TIMMINAIS ONT.		

The Ministry of Northern Development and Mines may verify all statements related to and made herein this application.

- I am the person named in the Application for Grant under the Ontario Prospectors Assistance Program.
- I am ordinarily a resident of Canada.
- I have complied with all the requirements of the said program.
- I understand that it is an offence under the Ontario Mineral Exploration Act, 1989, to make a false or misleading statement and that all statements and all other information submitted in support of the said application are true and correct.
- I was not employed by the Ministry while in receipt of the OPAP grant.
- I am not the spouse, child, sibling or parent of a Ministry employee.
- I am aware that any other Provincial or Federal Government financial assistance received for said application will be deducted from the amount of incurred "Total Eligible Expenses".

It is an Offence under subsection 8(1)(A) of the Ontario Mineral Exploration Act, 1989 to knowingly furnish false or misleading information.

Personal information on this form is obtained under the authority of the Ontario Mineral Exploration Act, 1989, sections 2, 3 and 4 and the Ontario Prospectors Assistance Program Regulation, sections 4, 5 and 6. The financial and technical information will be used for the purpose of determining the eligibility of the applicant to

have a program designated for financial assistance and the amount of such assistance. Other information, such as statistical information about the individual projects will be used for the purpose of determining the overall effectiveness of the program. It may be disclosed for those purposes and I consent to its disclosure for such

purposes. Questions about this collection should be directed to Supervisor, Incentives Office, Mineral Development and Rehabilitation, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, Toll free 1-800-465-3880.

Signature of Applicant Denis Chartre Date Jan 9/93
 Name (print) DENIS CHARTRE



**ONTARIO PROSPECTORS ASSISTANCE PROGRAM (OPAP)
FINAL SUBMISSION FORM 1992**

INSTRUCTIONS: Please read the guidebook before completing form

Please type or print

Submit completed form and supporting documentation by January 31, 1993 to:

Incentives Office (Mineral Development and Rehabilitation Branch)
Ministry of Northern Development & Mines
4th Floor, 159 Cedar St., Sudbury, Ontario P3E 6A5

TO BE COMPLETED BY SUCCESSFUL GRANTEES AFTER PROJECT COMPLETION AND ACCOMPANIED BY WRITTEN REPORTS, MAPS, ETC.

Applicant ROGER DUFRESNE File Number OP92-521

Proposed project area(s) (Twp. or claim map name, latitude and longitude)	Completed?
1. <u>CAIRO TOWNSHIP</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____	Yes <input type="checkbox"/> No <input type="checkbox"/>

Changes to proposed project(s) (if any) N/A

List other co-owners of the property with OPAP grants that worked on project
DENIS CHARTRE OP92-520

I. WORK PERFORMED BY APPLICANT (Summary of Section IV)

1. Project #1 area/name	<u>CAIRO PROPERTY (SOUTH MONTREAL RIVER)</u>	No. days worked by applicant (that's only you)
Traditional prospecting	No. of samples <u>47 ROCK</u>	<u>2</u>
LINE CUTTING Geological surveys	Scale _____	<u>15</u>
MAGNETOMETER Geophysical surveys	Type <u>G-816 PROTON</u> Miles/km <u>2.8</u>	<u>1</u>
Geochemical surveys	Type _____ No. of samples _____	_____
Drilling	Type _____ Ft./m _____	_____
Stripping/Trenching	Method <u>MANUAL AND POWER STRIPPING</u>	<u>26</u>
Other	Type <u>① SELECTING TARGETS FOR STRIPPING</u>	<u>11</u>
	<u>⑤ PROPERTY VISITS</u> TOTAL	<u>55</u>
	<u>③ FILLING REPORT</u>	
	<u>① HELPING MAPPING</u>	
	<u>① TAKING OUT ALL EQUIPMENT</u>	

I. WORK PERFORMED BY APPLICANT (Continued)

2. Project #2 area/name _____		No. days worked by applicant _____
Traditional prospecting	No. of samples _____	_____
Geological surveys	Scale _____	_____
Geophysical surveys	Type _____ Miles/km _____	_____
Geochemical surveys	Type _____ No. of samples _____	_____
Drilling	Type _____ Ft./m _____	_____
Stripping/Trenching	Method _____	_____
Other	Type _____	_____
	TOTAL	_____
TOTAL DAYS (ALL PROJECTS)		A. _____

(Attach additional sheets for additional project areas as required)

II. EXPENDITURES (total of all projects) - Summary of I and II

1. Number of working days by applicant (A) x \$100/day	52	\$ 5200.00
2. Number of report preparation days by applicant x \$100/day	3	\$ 300.00
3. Analyses/Assay costs	(1/2 OF \$741.27)	\$ 370.64
4. Equipment rentals/supplies (specify)		
.....	\$ _____	\$ _____
.....	\$ _____	\$ _____
.....	\$ _____	\$ _____
15 DAYS X \$90.00 MANUAL LABOUR FOR WATER PUMP OPERATOR	1350.00	
5. Contract services (state type)		
6 DAYS AT \$90.00 LINE CUTTING	540.00	
MAGNETOMETER SURVEY	224.70	\$ 2478.70
GEOLOGICAL MAPPING AND PROSPECTING PROGRAM REPORT	364.00	
6. Travel (state method, road, air, etc.)		
AND WATER 48 X .30 X 59K	849.60	\$ 849.60
.....	\$ _____	\$ _____
.....	\$ _____	\$ _____
7. Food and Accommodation	55 X \$20.00	\$ 1100.00
8. Other expenses (specify, e.g. helpers)		
SUPPLIES	1309.47	
MINISTRY MAPS, ETC	88.07	
OFFICE AND PAPER SUPPLIES	216.35	\$ 2499.37
WATER PUMP AND OUTBOARD } FUEL AND OIL	602.33	
PROPPANE	283.15	
TOTAL EXPENDITURES		\$ 12,798.31

DAILY REPORT
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IV. DAILY REPORTS (Summarize work activity in Section I)

Day	Project Area	Date	Work Performed
1	CLAIMY NO 1179888	MAY 9/92	SELECTING & MARKING OLD PITS & TRENCHES TO BE STRIPPED
2	" " "	MAY 16/92	CUTTING & CLEARING OF BRUSH & TREES
3	" " "	MAY 17/92	MANUAL STRIPPING - PICK & SHOVEL
4	" " "	MAY 18/92	MANUAL STRIPPING PICK & SHOVEL
5	" " "	MAY 23/92	MANUAL & POWER STRIPPING
6	" " "	MAY 30/92	MANUAL & POWER STRIPPING
7	" " "	MAY 31/92	MANUAL & POWER STRIPPING
8	" " "	JUNE 6/92	MANUAL & POWER STRIPPING
9	" " "	JUNE 7/92	MANUAL & POWER STRIPPING
10	" " "	JUNE 13/92	MANUAL & POWER STRIPPING
11	" " "	JUNE 20/92	CUTTING & CLEARING OF BRUSH & TREES
12	" " "	JUNE 26/92	MANUAL & POWER STRIPPING
13	" " "	JUNE 27/92	MANUAL & POWER STRIPPING
14	" " "	JUNE 28/92	MANUAL & POWER STRIPPING
15	" " "	JULY 3/92	MANUAL & POWER STRIPPING
16	" " "	JULY 4/92	MANUAL & POWER STRIPPING
17	" " "	JULY 5/92	MANUAL & POWER STRIPPING
18	" " "	JULY 6/92	MANUAL & POWER STRIPPING
19	" " "	JULY 7/92	MANUAL & POWER STRIPPING
20	CLAIMY NO 1179886 & 1179890	JULY 11/92	CUTTING GRID LINES
21	" " "	JULY 12/92	CUTTING GRID LINES
22	" " "	JULY 13/92	CUTTING GRID LINES
23	" " "	JULY 14/92	CUTTING GRID LINES
24	CLAIMY NO 1179888	JULY 17/92	PROPERTY VISIT FROM DAVE BENDING (HAWKSHIRE SAMPLES TAKEN)
25	CLAIMY NO 1179886 & 1179890	JULY 18/92	CUTTING GRID LINES
26	ALSO + 1179887	JULY 19/92	CUTTING GRID LINES
27	" " "	JULY 20/92	CUTTING GRID LINES
28	" " "	JULY 25/92	CUTTING GRID LINES
29	" " "	JULY 28/92	CUTTING GRID LINES
30	" " "	AUG 8/92	CUTTING GRID LINES
31	" " "	AUG 9/92	CUTTING GRID LINES
32	" " "	AUG 10/92	CUTTING GRID LINES
33	CLAIMY NO 1179888	AUG 11/92	MANUAL & POWER STRIPPING
34	" " "	AUG 14/92	PROPERTY VISIT BY HOWARD HAYLER & GARY GRABOWSKI
35	CLAIMY NO 1179887 & 1179890	AUG 15/92	CUTTING GRID LINES
36	" " "	AUG 16/92	CUTTING GRID LINES
37	" " "	AUG 17/92	CUTTING GRID LINES
38	CLAIMY NO 1179888	AUG 20/92	MANUAL STRIPPING PICK & SHOVEL
39	" " "	AUG 21/92	PROPERTY VISIT BY HOWARD LOVELL
40	" " "	AUG 22/92	MANUAL & POWER STRIPPING
41	" " "	AUG 23/92	MANUAL & POWER STRIPPING
42	" " "	AUG 24/92	PROPERTY VISIT BY MAURILIA HOULTE (FALCON BRIDGE) SAMPLES TAKEN

Attach additional sheets as required.

V. SIGNIFICANT RESULTS (please complete)

Project Area	New Showings and/or Anomalies	Commodity	Best Analyses (SEE MAG. REPORT)
CAIRO PROPERTY	PRESENCE OF 2 NORTHWEST TRENDING FAULTS		
CAIRO PROPERTY AREA #2	240 PPB AU AND 2.48% CU.		

VI. CLAIMS STAKED DURING/AFTER PROSPECTING ACTIVITY (please complete)

Project Area	Claim Numbers	Number of Claim Units
CAIRO TWP.	118 56 35	1 (40 ACRES)
MAY 1992	118 56 36	1 (40 ACRES)

VII. OPTION AGREEMENTS RESULTING FROM OPAP PROJECT (please complete)

Optionee	Property/Claims	Dollar Value of Work Commitment
	STILL AWAITING WORD FROM FALCONBRIDGE, TIMMINS, ONTARIO.	

The Ministry of Northern Development and Mines may verify all statements related to and made herein this application.

1. I am the person named in the Application for Grant under the Ontario Prospectors Assistance Program.
2. I am ordinarily a resident of Canada.
3. I have complied with all the requirements of the said program.
4. I understand that it is an offence under the Ontario Mineral Exploration Act, 1989, to make a false or misleading statement and that all statements and all other information submitted in support of the said application are true and correct.
5. I was not employed by the Ministry while in receipt of the OPAP grant.
6. I am not the spouse, child, sibling or parent of a Ministry employee.
7. I am aware that any other Provincial or Federal Government financial assistance received for said application will be deducted from the amount of incurred "Total Eligible Expenses".

It is an Offence under subsection 8(1)(A) of the Ontario Mineral Exploration Act, 1989 to knowingly furnish false or misleading information.

Personal information on this form is obtained under the authority of the Ontario Mineral Exploration Act, 1989, sections 2, 3 and 4 and the Ontario Prospectors Assistance Program Regulation, sections 4, 5 and 6. The financial and technical information will be used for the purpose of determining the eligibility of the applicant to

have a program designated for financial assistance and the amount of such assistance. Other information, such as statistical information about the individual projects will be used for the purpose of determining the overall effectiveness of the program. It may be disclosed for those purposes and I consent to its disclosure for such

purposes. Questions about this collection should be directed to Supervisor, Incentives Office, Mineral Development and Rehabilitation, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, Toll free 1-800-465-3880.

Signature of Applicant Roger Dufresne Date JAN 9, 1993
 Name (print) ROGER DUFRESNE

DUFRESNE EQUIPMENT RENTALS

OUR NUMBER	48939
DATE	DEC 19, 1992
CUSTOMER'S ORDER	
SALESMAN	
TERMS	
F. O. B.	

SOLD TO R. DUFRESNE AND DENIS CHARTRE
124 WRIGHT HARGREAVES
 SHIP TO KIRKLAND LAKE, ONTARIO
 ADDRESS R2N 1B9

INVOICE

SUPPLY OPERATOR (PAUL DUFRESNE)			
HOSE, PUMPS: WJAX			
MARK I HIGH PRESSURE			
AND WA 20XC-5HP			
HONDA PUMP			
ON CLAIM 1179888			
15 DAYS AT		90 00	1350 00
PAID IN FULL			
<i>Paul Dufresne</i>			

FORM D 31

DUFRESNE EQUIPMENT RENTALS

OUR NUMBER	48940
DATE	DEC 19/92
CUSTOMER'S ORDER	
SALESMAN	
TERMS	
F. O. B.	

SOLD TO D CHARTRE AND R. DUFRESNE
BOX 53
 SHIP TO SWASTIKA, ONTARIO
 ADDRESS POK VIA ITO

INVOICE

SUPPLY OPERATOR (PAUL DUFRESNE), HOSE,			
WATER PUMP (WJAX			
MARK I HIGH PRESSURE PUMP			
AND WA 20XC-5HP HONDA PUMP			
ON CLAIM 1179888			
12 DAYS AT		9000	1080 00
PAID IN FULL			
<i>Paul Dufresne</i>			

FORM D 31

SERVICES EXPLORATION SERVICES Enrg.
Reg'd.

TÉL.: (819) 797-0853
FAX: (819) 797-1848

785, BOUL. QUÉBEC
C.P. 428
ROUYN-NORANDA, P.Q.
J8X 5C4

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Sales of mining
exploration articles

PROSPECTING PROGRAM

CHARTRE-DUFRESNE OPAP PROJECT

CAIRO TWP. PROPERTY

September 1992

TABLE OF CONTENTS

I - INTRODUCTION	P 1
II - PROPERTY	P 1
III - LOCATION & ACCESSIBILITY	P 2
IV - PROSPECTING PROGRAM	P 2
V - CONCLUSIONS & RECOMMENDATIONS	P 5

APPENDIX

A - Assay Results

MAPS

1 - Trench Maps (5)	1:100
2 - Trench Location Map	1:500
3 - Claim Map	1" = 1/2 mi
4 - General Geology Map	1" = 1/2 mi
5 - Location Map	1" = 2 mi
6 - Location Map	1:1 600 000

I - INTRODUCTION:

This report, written at the request of D. Chartré and R. Dufresne, describes the prospecting carried out on the CHARTRE-DUFRESNE Cairo township property, during the months of July, August and September, 1992.

The stripping, trenching and sampling programs were undertaken, within the framework of an OPAP project, in an attempt to locate and re-evaluate old trenches and pits.

II - PROPERTY

The CHARTRE-DUFRESNE property consists of 7 contiguous 16 hectare claims which are numbered as follows:

1179885 - 1179886 - 1179887 - 1179888 - 1179889
1179890 and 1185634.

The prospecting referred to in this report was carried out on claim 1179888.

III - LOCATION & ACCESSIBILITY:

The claim group is located in the southwest quadrant of Cairo township at an approximate distance of one half mile east of the town of Matachewan, Ontario.

From Matachewan, the claim group may be reached by travelling along highway 66, eastwards, for a distance of 1 mile, to a river access point - then by crossing the Montréal River by boat.

IV - PROSPECTING PROGRAM:

a) Stripping & Trenching:

A total of 10 sites have been stripped and trenched, exposing old trenches and pits and fresh rock surfaces along the southern bank of the Montréal River, on claim 1179888. (for locations see accompanying sketches)

The stripping was done manually by clearing areas of vegetation and then by cleaning the rock exposures using a fire hose.

b) Geology:

The exposed rock surfaces and local outcrops indicate the presence of a granodiorite with dioritic phases.

The granodiorite is greyish pink in colour with a buff altered surface. This rock type has a granitic texture and contains the following minerals:

- feldspars 40%
 - amphibole-pyroxene 40%
 - quartz 15%
 - biotite 5%
- accessory minerals include magnetite, hematite and pyrite.

The diorite has a dark greyish-green colour and a greyish green altered surface. Its mineral composition is similar to that of the granodiorite however, quartz is absent.

c) Structure:

A major fault zone traverses the northwestern part of the property in a northeasterly direction.

This fault zone lies mostly under the bed of the Montréal River - it has been exposed in trench area 7 . This rock exposure indicates the presence of strongly sheared granodiorite - shearing increases northwestwards towards the river. The granodiorite becomes foliated and darker with the presence of chlorite and serpentine. Shearing strikes at 20° .

This strong fault zone has fractured the adjacent granodiorite - most of the quartz-filled fractures trend northeasterly.

d) Economic Geology:

The numerous fractures observed are host to quartz veins which vary in length and width, most range in the width of 5 cm to 500 cm. The quartz veins and adjacent sheared walls contain disseminated hematite, magnetite, chalcopryrite and pyrite.

The strongest concentration of chalcopryrite has been observed in a 1.5 meter wide shear zone in trench area 7.

The highest gold assay returned 240 ppb and the highest copper assay returned 2.48%

e) Sampling:

Samples of mineralized quartz veins and shear zones were taken randomly within the stripped and trenched areas (grab samples).

The location, sample number and obtained assays are indicated on accompanying sketches.

A total of 32 samples have been assayed for gold and copper and a total of 15 samples have been assayed for gold only. Assay results are tabulated on appendix "A".

V - CONCLUSION & RECOMENDATIONS:

The current prospecting program undertaken by D. Chartré and R. Dufresne included the stripping and trenching of 10 different sites along the southern bank of the Montréal River. All of the mineralized quartz veins and shear zones have been sampled and assayed for gold and copper.

Only 2 samples returned Nil gold values, others range between 3 and 240 ppb. Copper values ranged between 0.05 to 2.48%.

The pervasive distribution of low gold values would seem to indicate the presence of a gold-bearing system within the fault zone; hence, the fault zone which underlies the bed of the Montréal River becomes an important exploration target.

Other fault zones indicated by the magnetometer survey should also be considered as exploration targets.

Respectfully submitted:

E. Chartré, B.A., B. Sc.: *E. Chartré*
2.1415 Qual.

October 20, 1992.



Established 1928

Swastika Laboratories

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Assaying - Consulting - Representation

Page 1 of 2

2W-1006-RG1

Date: SEP-22-92

Geochemical Analysis Certificate

Company: R. DUFRESNE
 Project:
 Assn:

We hereby certify the following Geochemical Analysis of 47 ROCK samples submitted SEP-14-92 by .

Sample Number	Au PPB	Cu %
1152	10	0.97
1153	10	0.53
1154	14	0.64
1155	79/113	0.63
1156	27	0.21
1157	10	0.12
1158	21	0.34
1159	10	0.47
1160	3	0.03
1161	10	2.48
1162	17	1.09
1163	3	0.01
1164	240/219	0.21
1165	219	0.34
1166	14	0.82
1167	65	0.07
1168	62	0.40
1169	147/134	1.51
1170	10	0.42
1171	10	0.57
1172	14	
1173	17	
1174	10	
1175	10	
1176	10/10	
1177	7	
1178	3	
1179	3	
1180	3	
1181	Nil	

Certified by Donna Gardner



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Assaying - Consulting - Representation

Page 2 of 2

2W-1006-RG1

Date: SEP-22-92

Geochemical Analysis Certificate

Company: R. DUFRESNE

Project:

Attn:

We hereby certify the following Geochemical Analysis of 47 ROCK samples submitted SEP-14-92 by .

Sample Number	Au PPB	Cu %
1182	10	
1183	Nil	0.27
1184	7	0.09
1185	14	0.16
1186	10	
1187	3	
1188	10	
1189	31	0.18
1190	10	
1191	10	
1192	14	0.10
1193	7	0.09
1194	51/106	0.19
1195	7	0.05
1196	27	
1197	7	0.08
1198	10	0.11

Certified by Donna Gardner

APPENDIX "B"

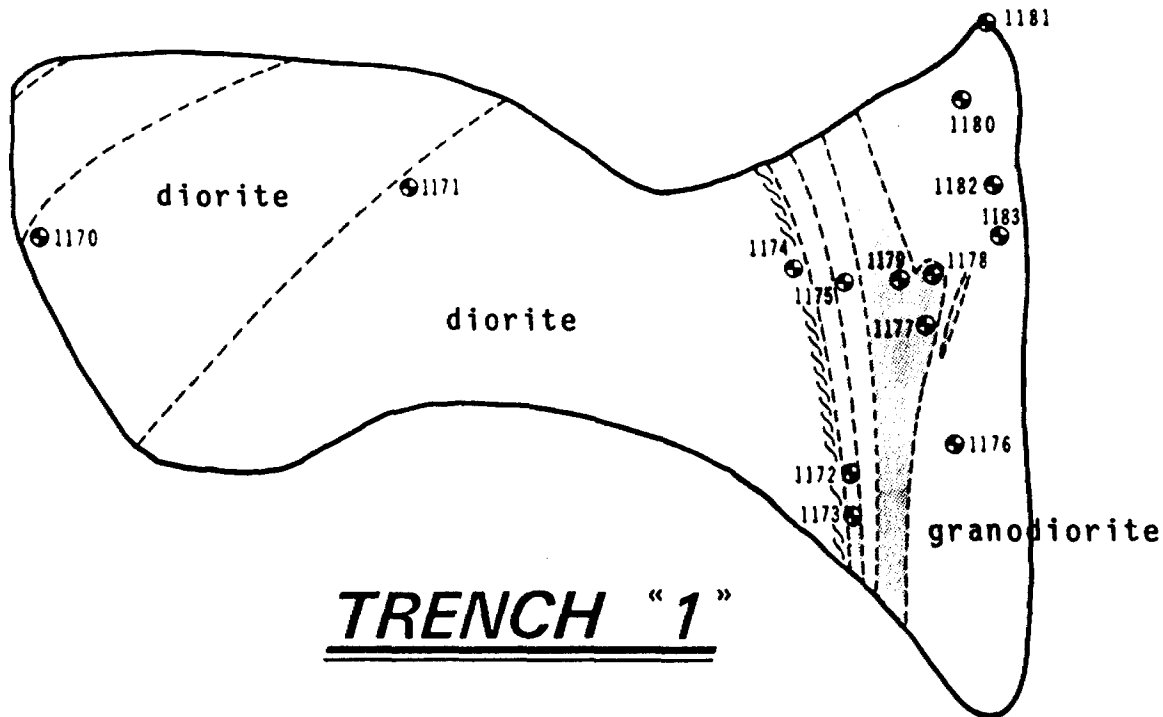
SAMPLE DESCRIPTION

Sample #	Au (Ppb)	Cu %	Description
1152	10	0.97	Quartz vein in chlorite schist, diss. chalcopryrite
1153	10	0.53	Shear zone with diss. cpy
1154	14	0.64	Qtz in shear zone + diss. cpy.
1155	79/113	0.63	Shear zone + diss. cpy
1156	27	0.21	Shear zone + diss. cpy
1157	10	0.12	Shear zone + diss. cpy.
1158	21	0.34	Qtz. + diss cpy
1159	10	0.47	Qtz + sheared diorite + diss. cpy.
1160	3	0.01	Qtz vein + hematite-cpy.
1161	10	2.48	Qtz vein + hematite + cpy.
1162	17	1.09	Qtz vein + hematite + cpy
1163	3	0.01	Qtz vein contains 70% hematite
1164	230	0.21	Qtz vein + hematite + cpy + py
1165	219	0.34	Qtz vein + hematite + cpy-tourmaline
1166	14	0.82	Serpentinized schist zone + cpy
1167	65	0.07	Schist + quartz + diss. cpy-hematite






1168	62	0.40	Qtz + schist + diss. cpy-hematite
1169	140	1.51	Qtz + diss. cpy, hematite
1170	10	0.42	Qtz + diss. cpy, hematite
1171	10	0.57	Qtz + diss. cpy, hematite
1172	14	---	Shear zone + qtz veinlets
1173	17		Shear zone + diss. py.
1174	10		Shear zone + quartz
1175	10		Quartz + diss. py.
1176	10		Quartz + diss. py.
1177	07		Quartz vein + diss. py.
1178	03		Quartz vein + diss. hematite
1179	03		Qtz vein + diss. py. some cpy.
1180	03		Qtz vein + diss. py. some cpy.
1181	Nil		Schist + diss. py.
1182	10		Schist + diss py., some qtz.
1183	Nil	0.27	Schist + diss. py., some qtz.+ cpy.
1184	07	0.09	Qtz vein + diss. py., cpy.
1185	14	0.16	Qtz veins + diss. hematite, cpy.
1186	10		Schist + diss. cpy.

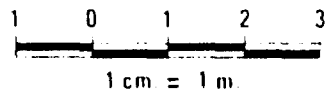
1187	03		Schist + quartz + dis.. hematite
1188	10		Schist + quartz + diss. henatite
1189	31	0.18	Schist + quartz + diss hematite+ cpy.
1190	10		Qtz + diss. py, cpy, hematite
1191	10		Qtz. + diss. py, cpy, tourmaline
1192	14	0.10	Qtz. + diss py., hematite.
1193	07	0.09	Qtz. + diss. hematite, some cpy.
1194	51_/06	0.19	Qtz vein + cpy in seams
1195	07	0.05	Qtz vein + diss. py, cpy, hematite
1196	27		Qtz vein + diss. hematite + cpy
1197	07	0.08	Qtz. vein + diss hematite + cpy.
1198	10	0.11	Qtz vein + diss. hematite, cpy.

	Au ppb	Cu %		Au ppb	Cu %
● 1169	147/134	1.51	● 1177	7	
● 1170	10	0.42	● 1178	3	
● 1171	10	0.57	● 1179	3	
● 1172	14		● 1180	3	
● 1173	17		● 1181	NIL	
● 1174	10		● 1182	10	
● 1175	10		● 1183	NIL	0.27
● 1176	10/10				



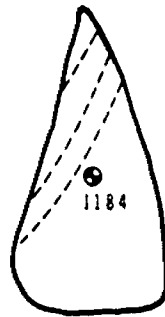
LEGEND

-  AREA OF STRIPPING & TRENCHING.
-  QUARTZ VEIN.
-  SHEAR ZONE.
-  SAMPLED AREA - SAMPLE NUMBER.
-  Au - ppb - Cu %



CHARTRE-DUFRESNE OPAP PROJECT	
CAIRO TWP. PROPERTY	
TRENCH "1"	
SEPTEMBER 1992	SCALE 1 100

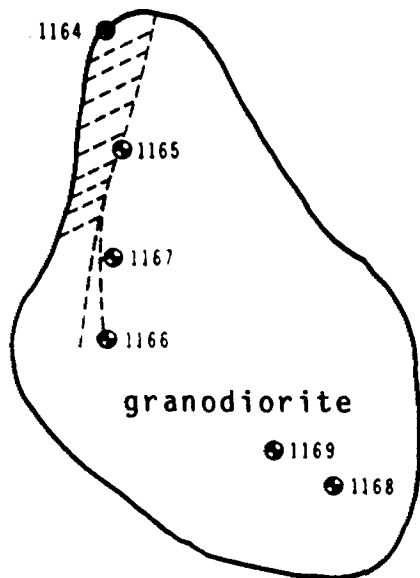
	Au ppb	Cu %
● 1164	240/219	0.21
● 1165	219	0.34
● 1166	14	0.82
● 1167	65	0.07
● 1168	62	0.40
● 1169	147 134	1.51
● 1184	7	0.09



granodiorite



TRENCH "3"



TRENCH "2"

LEGEND



AREA OF STRIPPING & TRENCHING.



QUARTZ VEIN.



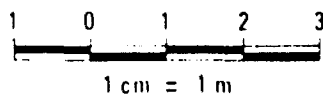
SHEAR ZONE.



SAMPLED AREA - SAMPLE NUMBER.



Au /ppb - Cu %.



CHARTRE DUFRESNE OPAP PROJECT

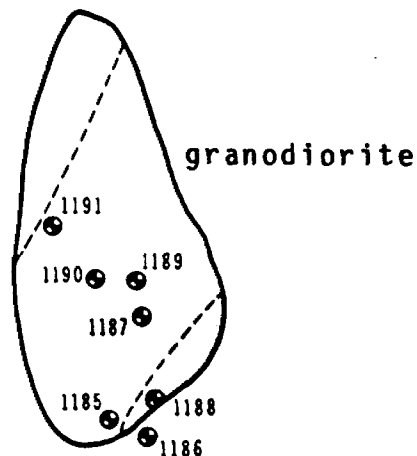
CAIRO TWP. PROPERTY

TRENCH "2 - 3"

SEPTEMBER 1992

SCALE 1 100

	Au ppb	Cu %
● 1185	14	0.16
● 1186	10	
● 1187	3	
● 1188	10	
● 1189	31	0.18
● 1190	10	
● 1191	10	



TRENCH "4"

LEGEND



AREA OF STRIPPING & TRENCHING.



QUARTZ VEIN



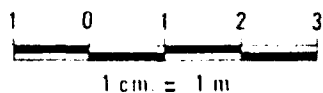
SHEAR ZONE



SAMPLED AREA - SAMPLE NUMBER



Au ppb - Cu %



CHARTRE-DUFRESNE OPAP PROJECT

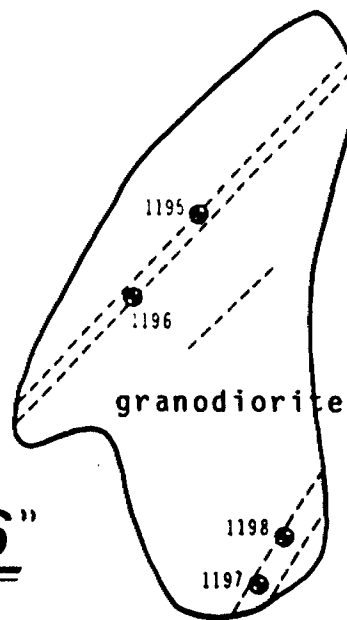
CAIRO TWP. PROPERTY

TRENCH "4"

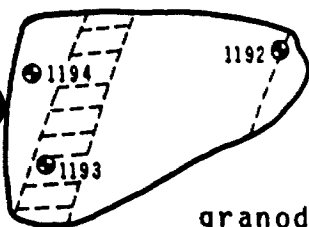
SEPTEMBER 1992

SCALE 1:100

	Au ppb	Cu %
● 1192	14	0.10
● 1193	7	0.09
● 1194	51 106	0.19
● 1195	7	0.05
● 1196	27	
● 1197	7	0.08
● 1198	10	0.11








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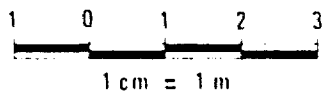


granodiorite

TRENCH "5"

LEGEND

-  AREA OF STRIPPING & TRENCHING
-  QUARTZ VEIN
-  SHEAR ZONE
-  SAMPLED AREA - SAMPLE NUMBER
-  Au ppb - Cu %



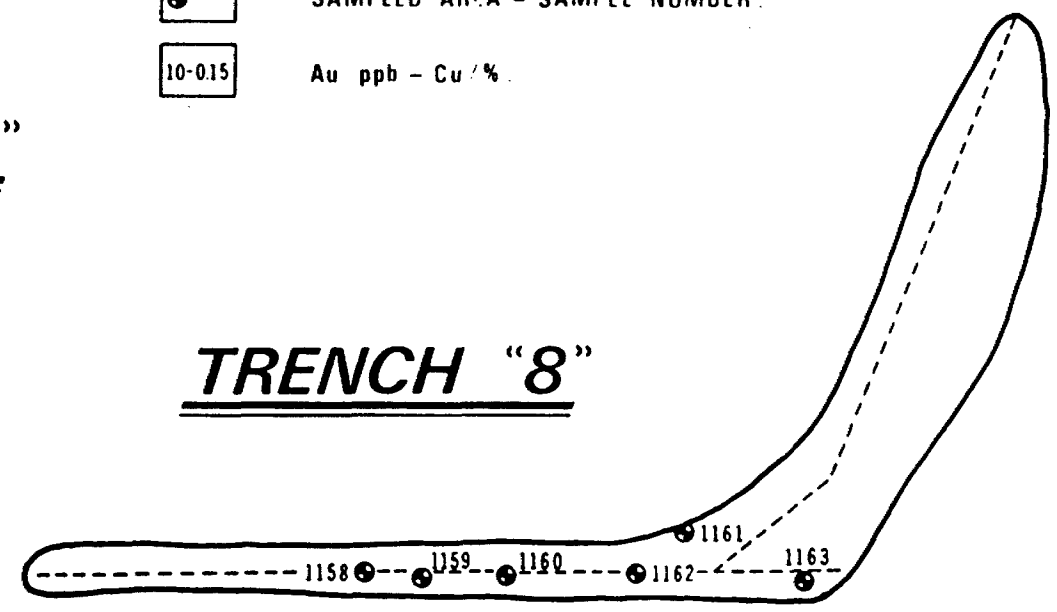
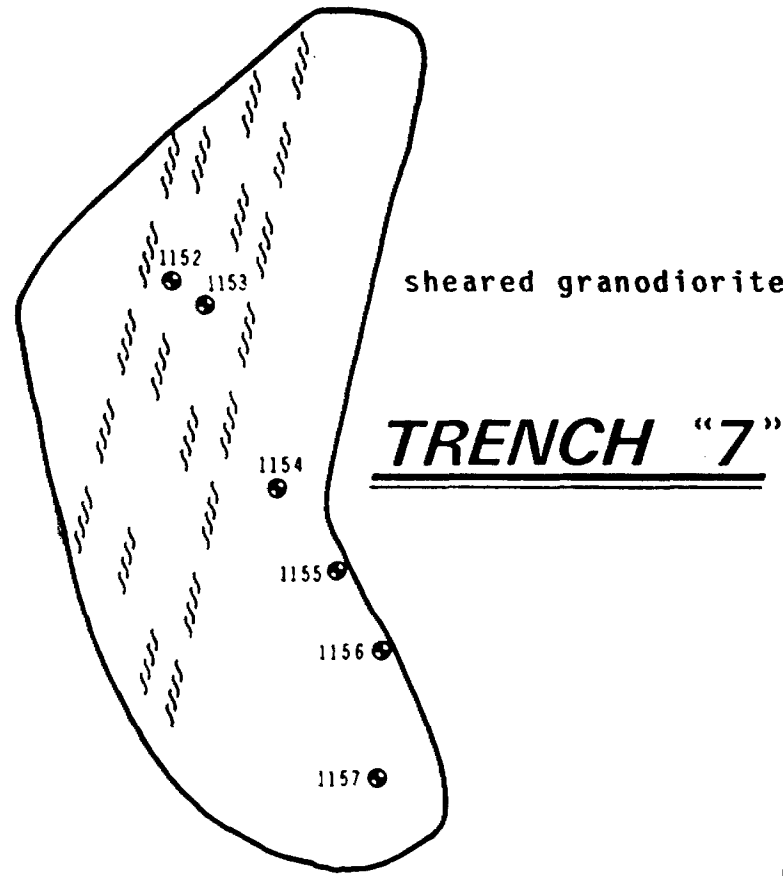
CHARTRE-DUFRESNE OPAP PROJECT

CAIRO TWP. PROPERTY

TRENCH "5 - 6"

SEPTEMBER 1992

SCALE: 1 100



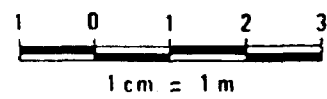
LEGEND

- AREA OF STRIPPING & TRENCHING.
- QUARTZ VEIN.
- SHEAR ZONE.
- SAMPLED AREA - SAMPLE NUMBER.
- Au ppb - Cu %.



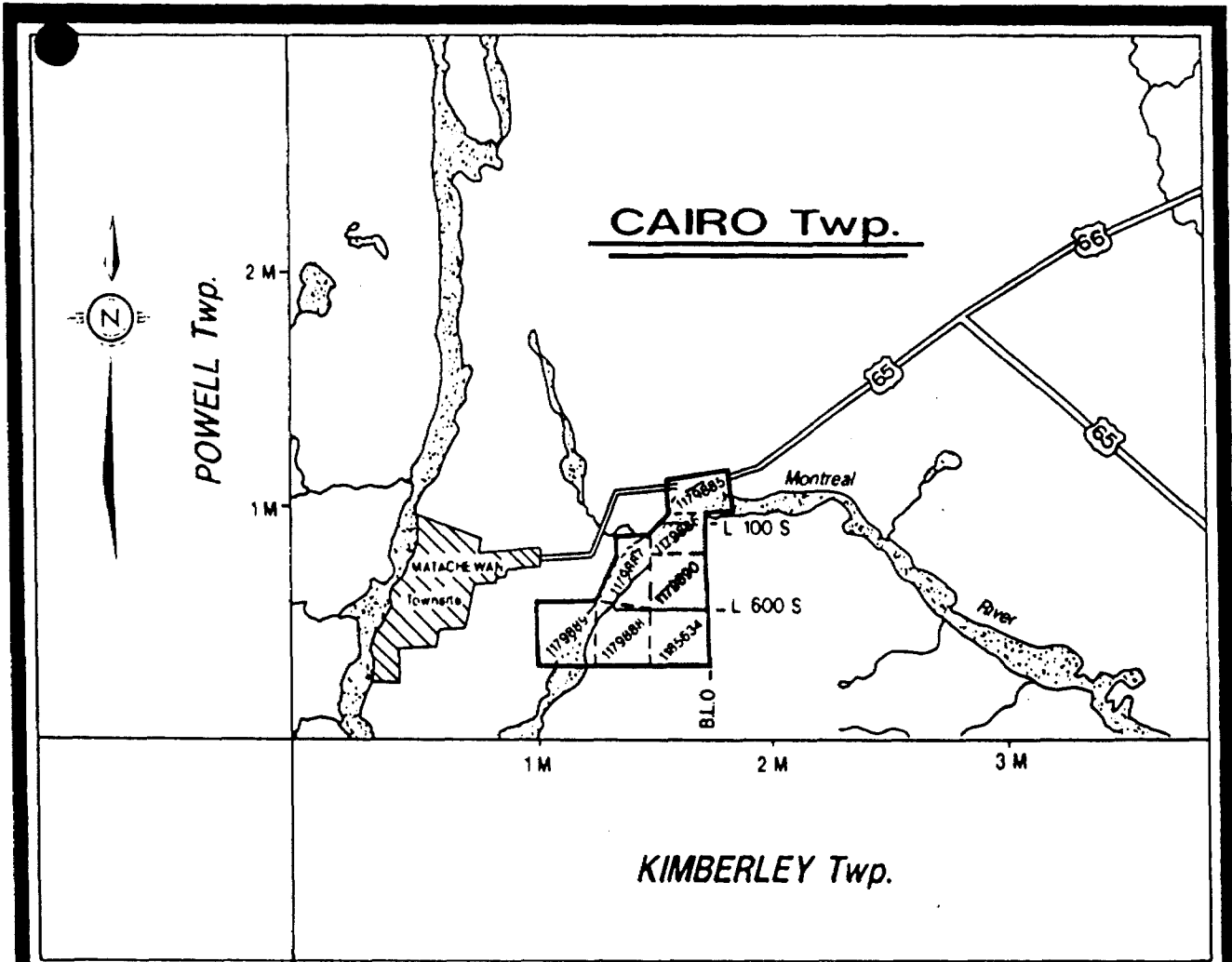
	Au ppb	Cu %
● 1152	10	0.97
● 1153	10	0.53
● 1154	14	0.64
● 1155	79/113	0.63
● 1156	27	0.21
● 1157	10	0.12

	Au ppb	Cu %
● 1158	21	0.34
● 1159	10	0.47
● 1160	3	0.03
● 1161	10	2.48
● 1162	17	1.09
● 1163	3	0.01



CHARTRE-DUFRESNE OPAP PROJECT	
CAIRO TWP. PROPERTY	
TRENCH "7 - 8"	
SEPTEMBER 1992	SCALE 1 100

87



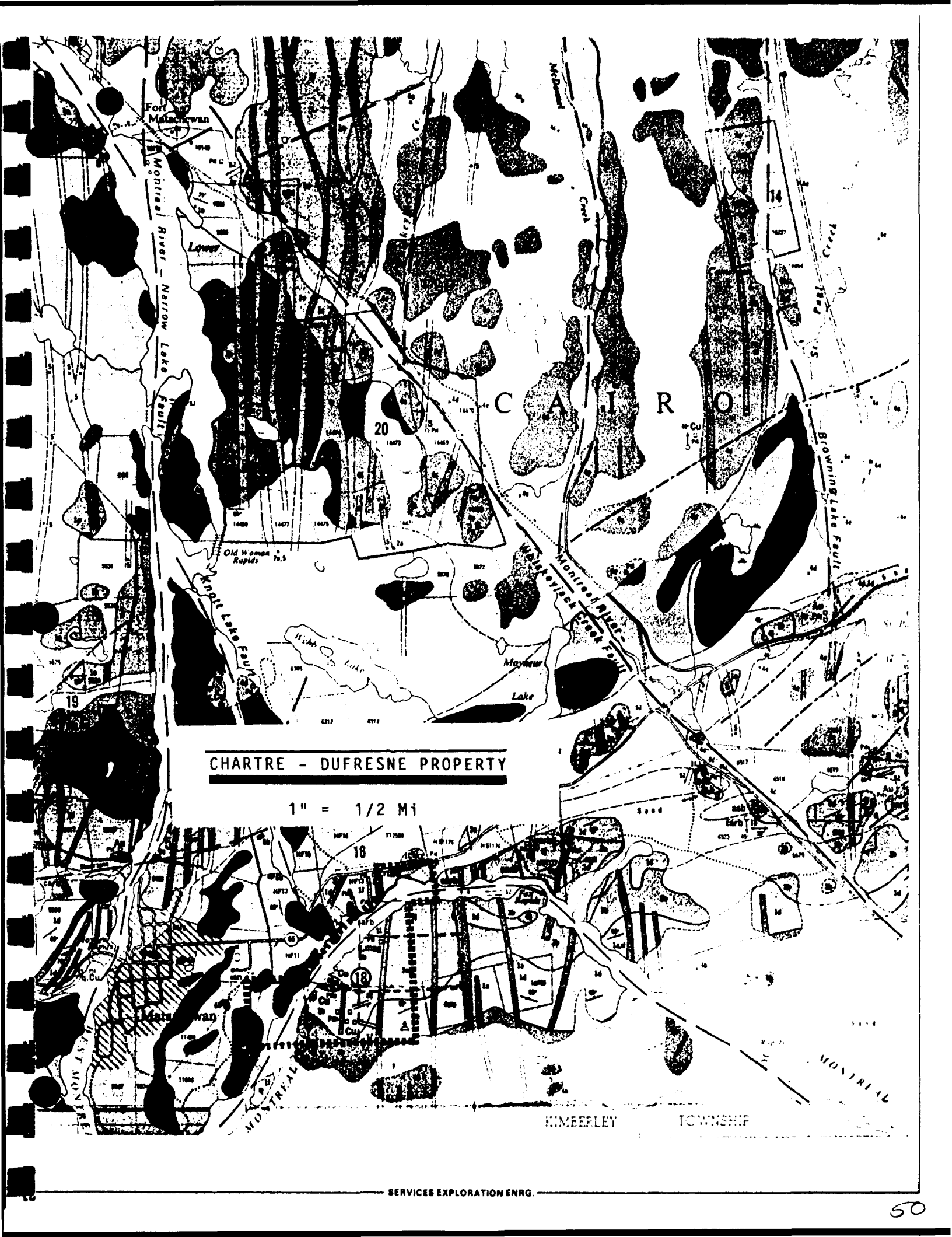
INDEX MAP

SCALE 1 50000

1000 0 1000 2000 3000



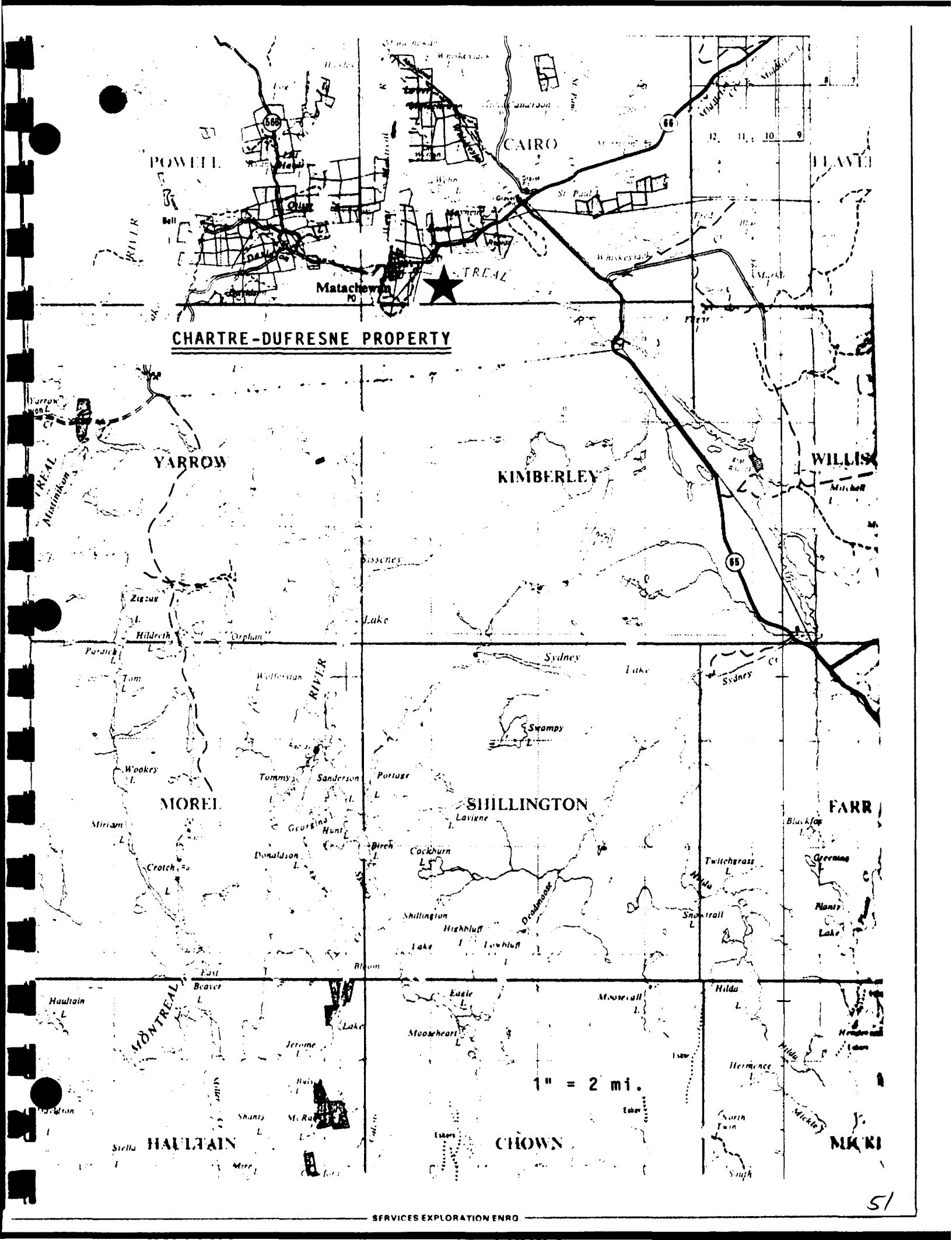
METRES



CHARTRE - DUFRESNE PROPERTY

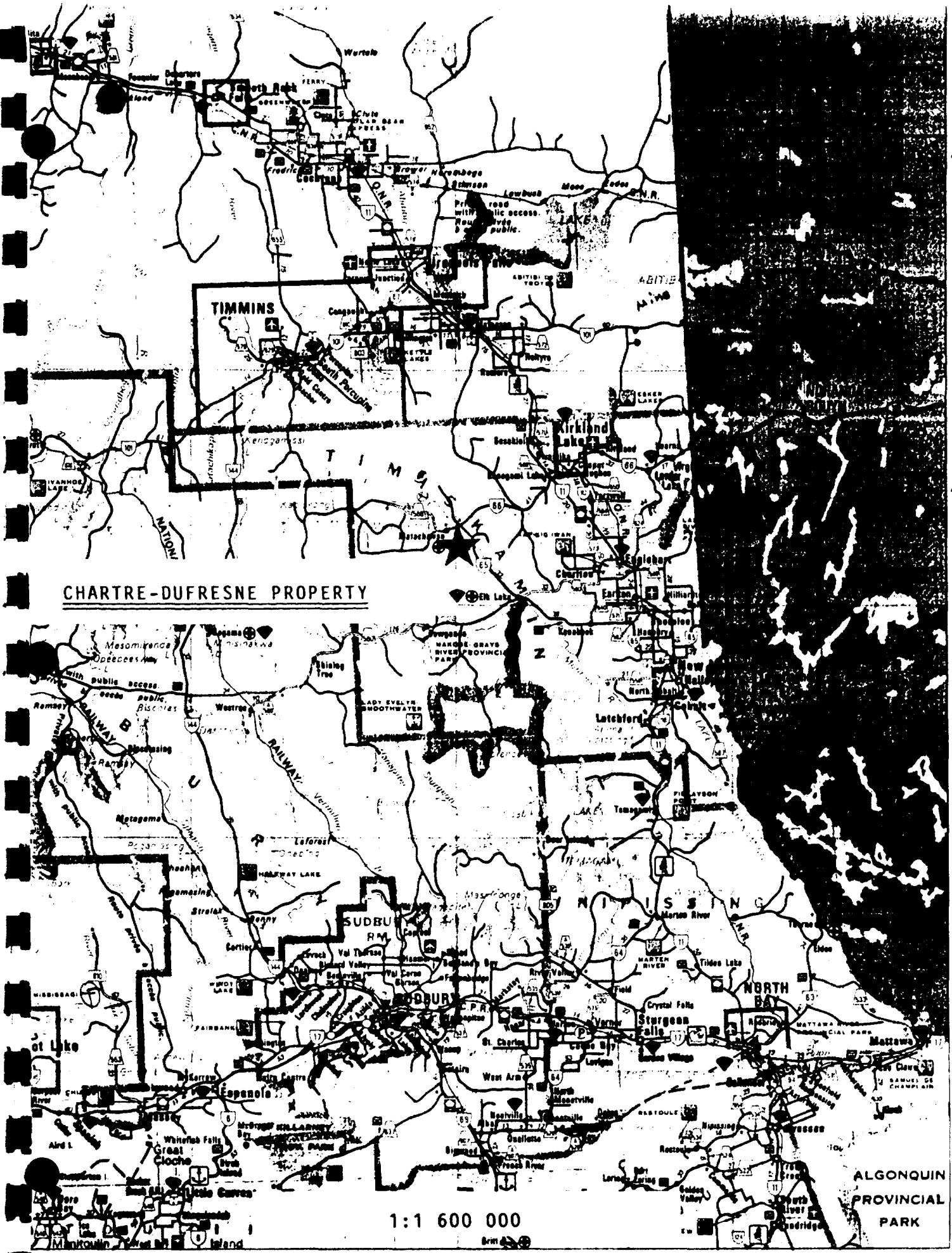
1" = 1/2 Mi

KIMBERLEY TOWNSHIP



CHARTRE-DUFRESNE PROPERTY

1" = 2 mi.



Queen's Printer for Ontario, 1988 80° Imprimeur de la Reine pour l'Ontario, 1988

SERVICES EXPLORATION ENRG.

SERVICES EXPLORATION SERVICES Enrg. Reg'd.

785, BOUL. QUÉBEC
C.P. 428
ROUYN-NORANDA, P.Q.
J8X 5C4

TÉLÉPHONE: (819) 797-0853

FAX: (819) 797-1848

Levés géophysiques	Geophysical Surveys
Levés géologiques	Geological Surveys
Jalonnement de claims	Claim staking
Dessin et reproduction	Drafting and Reproduction
Coupage de lignes	Line Cutting
Programmes d'exploration	Exploration Programmes
Ventes d'articles d'exploration minière	Sales of mining exploration articles

En compte avec: Denis Chartré
In account with: Swastika, Ont.
Box 53
POK 1T0

FACTURE INVOICE	7146
----------------------------	-------------

Projet: CAIRO TWP.
Project: _____

DATE Oct. 23, 1992	NUMÉRO DU CLIENT CUSTOMER NO.
N° COMMANDE PURCHASE ORDER NO.	

DESCRIPTION	PRIX UNITAIRE UNIT PRICE	TOTAL
GEOLOGICAL MAPPING & REPORT ON PROSPECTING PROGRAM		\$ 680.00
G S T		\$ 48.00
TOTAL		\$ 728.00

T.P.S./G.S.T: R105801906
T.V.P./P.S.T: Q-10-0169-9225 TV 0001

LF-910

THANK YOU

Code: 9-D-92

TERME: NET 30 JOURS
TERMS: NET 30 DAYS

COPIE DU CLIENT

65

Swastika Laboratories
 P.O. Box 10
 Swastika, Ontario
 P0K 1T0

INVOICE

NO: 27752
 DATE: 09-22-92
 PAGE: 1 of 1

SOLD TO:

SHIP TO:

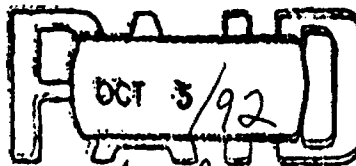
R. Dufresne
 14 Wright-Hargreaves Ave.
 Kirkland Lake, Ontario
 P2N 1B2

Same

GST Number: R132862640

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	G	P	UNIT PRICE	AMOUNT
47		Code 1	Au Assays	3		8.750	411.05
30		Code 1	Cu %	3		7.250	217.50
47		Code 4	Sample Handling	3		3.000	141.00
			Cert#2W-1006-R01				
			-10% Discount	3			76.98-
			3-EST @ 7 %				48.50

SWASTIKA LABORATORIES



COMMENTS:

Net 30 Days

TOTAL ▾

491.274

H. Lovell
Report.

Sunisloe, George Cu Prospect

Friday, August 21, 1992

Cairo Township

Purpose:

Request by Roger Dufresne to see soil stripping (partly financed by Ontario Prospectors' Assistance Program) done by him and partner Denis Chartre.

Brief History

The stripping was done at pits blasted by "Red Trapper" George Sunisloe of Matachewan in the 1960's.

Known Geology

Ontario Dept. Mines Geological Report 51 on the Matachewan area indicates on accompanying map 2110 that the location of the pits we saw today are in an apophysis of granodiorite about 1/8 of a mile (200m) in diameter and possibly a phase of the Round Lake batholith.

Observations:

The Chartre-Dufresne group of 9 claims are at the riverside park east of Matachewan tied on south of Matachewan Hub Pioneer Syndicate. The pits are reached by boat launched at the riverside park. Their "main pit" has pink granodiorite (20% quartz grains) and inclusions or shears consisting of mafic (chloritic material) cut by quartz-carbonate veins having greenish black chloritic walls. The main shear's quartz vein contains abundant coarse and medium grained specular hematite and horsetails composed of quartz, carbonate, specularite and chalcopryite. Some chalcopryite blebs are a maximum of 1cm in diameter. The chloritic areas have pyrite disseminated along shear planes. Roger Dufresne (pers. comm.) reported 0.06 opt Au maximum assay from here, and Sunisloe's highest assay he read was 0.02 opt Au. Some of the gangue near chalcopryite is white calcite (effervesces in HCl acid), which are common associates elsewhere. Quartz is the main gangue mineral for specular hematite and some of the chalcopryite. This blasted quartz veined shear attitude is 230 degrees/75 degrees South. In some places chalcopryite forms small (less than 1cm long) lenses and grains accompanying greater amounts of specular hematite but no white (quartz nor carbonate) gangue. In these mineral assemblages, fine grained pyrite is disseminated through adjacent rock, which seems to be composed mostly of white to pink feldspar interbanded

with chloritic slips.

About 30m up river and 6m uphill from the main pit is stripped slightly magnetic fine grained Matachewan Diabase cutting pink feldspar porphyry (chilled margin in the diabase, which is fine grained and darker towards its contact with the feldspar porphyry). Alteration in the diabase and the feldspar porphyry consists in part of yellowish green epidote. In the diabase the epidote forms zones 3cm in diameter, and in the feldspar porphyry epidote is present along fractures. Where stripped, the diabase contact trends 345 degrees.

The 4th stripping westward exposes Matachewan Diabase in all but its southeastern (up hill) part, which is pink granodiorite. In the diabase are several chalcopyrite-bearing white quartz-carbonate veins, and pink feldspathic (granophyric late differentiate of diabase, presumably) dikelets. The diabase texture is textbook diabasic (white feldspar laths less than 4mm long in greenish black mafic matrix, the ratio being roughly 50-50).

In as much as the chalcopyrite-bearing quartz-carbonate veins fill fractures in this diabase, perhaps the chalcopyrite originated post diabase as for example in the quartz veins cutting Gowganda Formation sedimentary rocks south of Davidson Creek west of its mouth, and along the road to Matarrow Pb Zn past producer. However if the mafic inclusions in the chalcopyrite-bearing white quartz-carbonate veins are not from the diabase walls, possibly the chalcopyrite was remobilized from older basement rocks by the intruding diabase. For example in Fred Kiernicki's stripped bedrock less than one claim southeast of Matarrow Pb Zn mine shaft, calcite-galena veins fill fractures in Matachewan Diabase.

Between the up hill feldspar porphyry and (more quartzose) granodiorite and diabase is a quartz vein zone swelling to 1m wide and trending 005 degrees along the two rock types' contact. Dikelets of the diabase intrude the porphyry here.

Down river (east) of the main pit (15m) is the 8th stripped bedrock seen today, around an old blasted pit. Parallel quartz veins form a zone less than 1m wide of the attitude 040 degrees/70 degrees south. The vein and walls contain pyrite grains. The host rock is the pink feldspar porphyry relative of the granodiorite at the main pit. Most of the pink feldspar porphyry and granodiorite are medium grained, with less than 15% phenocrysts of feldspar, and

are somewhat schistose or foliated, but not clearly banded and too homogeneous to be rhyolite tuff although possibly related to the "rhyolite" (soda rhyodacite keratophyre) north of Highway 66 at the riverside park.

The 9th stripping seen to-day exposes slightly magnetic (Fe-rich tholeiitic) Matachewan Diabase, medium grained as elsewhere in these pits except at chilled margins and in dikelets cutting the felsic rocks or diabase itself. The parallel quartz veins trend roughly east-west parallel to the Montreal River.

The 10th stripped bedrock area seen to-day is up hill a few metres from the 9th. Here are large lenses (0.6m) of specular hematite in quartz veins trending 070 degrees and containing many blebs of chalcopryrite, and copper bloom (malachite). This bedrock is medium grained Matachewan Diabase i.e. a coarser grained more central part of a dike.

Comments:

Several old blast holes 0.5m deep at several of these old pits were not followed up by being blasted, although conveniently a short distance down river from where George Sunisloe lived in Matachewan.

The 1992 pick-and-shovel and pressure-hose stripping is clean and revealing, while protecting the Montreal River canoe route from sedimentation by screening soil out of the hose water, and must resemble what old-time prospectors did before the advent of bulldozers and backhoes.

Other old pits indicated on O.D.M. map 2110 as being in "diorite and serpentinite" nearby should be located and freshened up to ascertain its significance and how the chalcopryrite occurs in rock types other than the feldspar porphyry, granodiorite and diabase already exposed by stripping the soil. The chalcopryrite in the serpentinite along one claim length of the Montreal River shore, seen by the writer between high and low water levels, tends to occur along the numerous slip planes and as fracture fillings both accompanying quartz gangue and silicification, and also as chalcopryrite alone. Diamond drilling should take into account the cliff under the Montreal River below the low water level.

NORTH EXPO MINES LIMITED

Report on Diamond Drilling

Cairo Township, Montreal River Mining Division, Ontario

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Location Map	
Certificate	

NORTH EXPO MINES LIMITED,
Suite 305-100 Adelaide St. West,
Toronto 1, Ont.

Gentlemen:

This report covers results of a diamond drill program recently completed on your Cairo township holdings, Matachewan area, Ontario.

PROPERTY: LOCATION: ACCESS:

The claim group, all contiguous and comprising approximately 440 acres, consists of the following claims: MR. 30884, MR. 37915-917, MR. 39476-477, MR. 40562-565, and MR. 41675, all inclusive.

The property is located in the southwest sector of Cairo township about one mile east of the old mining community of Matachewan, Ontario. Highway No. 66, between Matachewan and Kirkland Lake, is located a few hundred feet north of the Montreal River which forms a part of the property.

GEOLOGY:

Generally, Keewatin volcanic flows are the most

abundant rock types in the Matachewan area, and two parallel east-trending synclines are formed by Timiskaming sediments in Cairo and adjacent Powell townships. These rocks are intruded by Algoman igneous rocks consisting of syenite and granite which, in turn, have been intruded by north-trending diabase dikes. The flat-lying Cobalt Conglomerate lies with marked unconformity upon Precambrian formations.

Government maps indicate that the northern one-third of the property is underlain by Keewatin tuff, agglomerate, and andesite in contact with granite occupying the remaining portion of the property. Field investigation shows that this contact is likely further south than indicated.

Shear zones in the Keewatin flows and pyroclastic rocks on the property contain mineralization consisting essentially of pyrite, pyrrhotite, and chalcopyrite, as well as iron formation. These zones dip almost vertically.

HISTORY:

In the Fall of 1965, Rosmar Corp. Ltd. conducted a limited amount of self-potential work over claims MR. 30884, 39477, and portions of MR. 39475 and 39476. An anomalous condition 700 ft. long, 150 ft. wide was recorded as well as a higher intensity zone, not delimited, both in claim MR. 39477.

On the basis of the above work, North Expo Mines Ltd. acquired the property on option and located two test pits on the large anomaly one of which revealed copper mineralization

associated with pyrite. Recommendation was made by the writer to further test the anomalous zones by diamond drilling.

In the early part of 1966, a combined magnetic-electromagnetic survey, was done over water portions of the property. No conductive zones were encountered in this survey.

DIAMOND DRILL DATA:

In the drill program, which commenced March 14th last and terminated April 5th, two holes tested the large anomalous zone while one hole investigated the anomaly located in the northeast corner of claim MR. 39477.

<u>HOLE NO</u>	<u>LOCATION</u>	<u>DIRECTION</u>	<u>DIP</u>	<u>DEPTH (ft.)</u>
1.	950 ft. south, 900 ft. west of No. 1 post for claim No. MR. 39477.	180° Az.	40°	305
2.	910 ft. south, 700 ft. west of No. 1 post for claim No. MR. 39477.	180° Az.	38°	280
3.	255 ft. south of No. 1 post for claim No. Mr. 39477	360° Az.	40°	416

Total footage: 1,001

DRILL RESULTS:

Drill logs for each hole and assay results from samples tested are attached hereto and form a part of this report.

From hole 1, 13 sections totalling a combined

274 SOUTH
274 WEST

277 SOUTH
213 WEST

77.7 M. SOUTH

22.5 ft. were removed, split, and assayed for copper content, with the exception of one sample which was assayed for silver values. One of the 13 samples was assayed for nickel values, and five were subject to gold determinations.

Gold nor silver content in appreciable amounts were detected through assay means. In most cases, low grade copper values were returned. It is noteworthy that a combined section of five feet, from 233-238 ft., returned an average of 2.56% copper per ton, as determined from two assay values.

Drill hole No. 2, collared some 200 ft. east of No. 1 on the same anomalous condition, returned nil values in gold and low grade copper values. One section, from 90-100 ft., returned an average of 0.51% copper per ton as determined from results of four assay determinations.

Four sections were removed from drill hole No. 3, placed over the anomalous condition in the northeast portion of claim MR 39477, and returned low grade copper values and nil gold values.

CONCLUSIONS:

The results of diamond drilling a large anomalous condition in claim MR. 39477, as well as another higher intensity anomaly in the northeast sector of this claim, indicate that the self-potential anomalies are attributable to the combined electro-galvanic response of sulphide mineralization, chiefly pyrite and chalcopyrite, as well as a

contributing effect of iron formation of the non-magnetic variety. Sheared and chloritized andesite forms the host material for this mineralization.

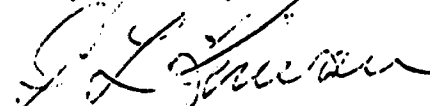
A section of ore grade copper over mineable widths was encountered in hole No. 1 but, due to the nature of shearing in the andesite, this zone is non-continuous and was not intersected in hole No. 2 along strike.

RECOMMENDATIONS:

Inasmuch that results of work to date prove the existence on the property of substantially large shear zones containing copper mineralization, it is recommended that those portions of the property not heretofore subject to geophysical coverage north of the granite-andesite contact be subject to a continuous-line self-potential survey on 200 ft. linespacings. This area would include claims MR. 39476, 40562, 40563, 40564, and 41675.

The estimated cost of this work, linecutting included, is \$2,700.00.

Respectfully submitted,



G.L. Kirwan, B.Sc.
Consulting Geologist

GLK/lk

Toronto, Ont.
April 22, 1966

63A.374 Qual

DIAMOND DRILL RECORD

Calro

PROPERTY NORTH EXPO MINES LIMITED Township _____ **LOG NO. 2**

SHEET NUMBER 1 of 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM 910 ft. south, 700 ft. west COMPLETED _____
 DEPARTURE _____ BEARING 180° Az. ULTIMATE DEPTH 280 ft.
 ELEVATION _____ DIP 38° at 250 ft. PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD & Copper	SLUDGE GOLD &
0 - 8	CASING				
8 - 75	ANDESITE: Massive, dark green. Iron formation up to 10% assoc. with some siliceous sections. Some calcite stringers up to 3 inches wide. Dip angle 70° to core axis.				
75-100	ANDESITE: Sheared and altered. Blebs and stringers of ch. pyrite. Ch. altered and sheared with copper mineralization from 90-100 ft. Sample from 90-92½ ft.	2-1	2.5	0.80	(Nil Au.)
		2-2	2.5	0.12	(Nil Au.)
		2-3	2.5	0.90	(Nil Au.)
		2-4	2.5	0.23	(Nil Au.)
100-175	ANDESITE: Massive with some minor shearing. Quartz vein 100-102 ft. 125-127 10% iron sulphides. Iron formation forms up to 10% of core. Copper min. 154-155½, sample.	2-5	1.5	0.85	(Nil Au.)

M.P. TORONTO-STOCK FORM No. 501 REV. 12/51

DRILLED BY

Inspiration Drilling Co. Ltd.

SIGNED

[Handwritten Signature]

77

DIAMOND D'OLL RECORD

PROPERTY NORTH EXPO MINES LIMITED

HOLE NO. 3

SHEET NUMBER 1 of 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM 255 ft. south of Ho. 1 post COMPLETED _____
 DEPARTURE _____ BEARING 360° Az. ULTIMATE DEPTH 416
 ELEVATION _____ DIP 40° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	PERCENT COPPER	SLUDGE GOLD'S
0 - 24	CASING				
24-100	ANDESITE: Very dark green. Chloritized and evidence of considerable shearing. Up to 5% pyrite. Occasional bands up to 3 ft. wide containing iron formation.				
100-150	ANDESITE: Massive for the most part. Pyrite disseminated throughout 90% of section up to about 8% 147-148½ chalcopyrite; Sample	3-1	1.5	0.14	
150-200	ANDESITE: Generally massive with 5 ft. sections of chloritized and sheared material. Iron formation slight, some pyrite sections. Quartz vein from 157-158 Sample	3-2	1.5		Au. nil.
	Chalcopyrite section from 163-165, sample	3-3	2.0	0.10	
200-300	ANDESITE: Generally massive with few small 2-5 ft. sections of chloritized and sheared material. Sections of iron formation				

MIN. TECH. DIV. - STOCK FORM NO. 501 REV. 12/51

DRILLED BY

Inspiration Drilling Co. Ltd.

SIGNED

62

DIAMOND DRILL RECORD

Cairo

PROPERTY NORTH EXPO. MINES LIMITED Township HOLE NO. ONE

SHEET NUMBER 1 of 3 SECTION FROM TO STARTED
 LATITUDE DATUM 950 ft. south, 900 ft. west COMPLETED
 DEPARTURE BEARING 180° Az. ULTIMATE DEPTH 305 ft.
 ELEVATION DIP 40° PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD & COPPER	SLUDGE GOLD'S
0 - 16	casing				
16 - 50	ANDESITE: Massive, olive green, some calcite stringers up to 1/2 inch in width. Dip angle 70° to core axis. Sample from 45-47 1/2 ft.	1-1	2.5 ft.	0.80	
	From 45-50 ft. evidence of iron formation containing copper sulphide (chalcopyrite) as blebs and very narrow stringers in andesite.				
50 - 100	ANDESITE: Generally massive, some evidence of shearing, dark olive green as above. Sample 93-94 ft. in one foot quartz-calcite vein. 93 ft. - 100 ft. some iron formation containing about 10% iron and copper sulphides. Sample from 95-97 ft.	1-2 1-3	(nil silver) 2.0 ft.	1.10	(Ni. nil), Au nil)
100 - 125	ANDESITE: Generally massive, Some iron formation throughout in stringers up to 8 inches wide. From 100 ft.				

N.M.F. TORONTO-STOCK FORM NO. 501 REV. 12/51

1/8

DRILLED BY Inspiration Drilling Co. Ltd

SIGNED *[Signature]*

DIAMOND DRILL RECORD

Cairo

PROPERTY NORTH EXPO MINES LIMITED Township HOLE NO. ONE (Cont'd)

SHEET NUMBER 2 of 3 SECTION FROM TO STARTED
 LATITUDE DATUM COMPLETED
 DEPARTURE BEARING ULTIMATE DEPTH
 ELEVATION DIP PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD'S COPY	SLUDGE GOLD'S
	104 ft. contains 10% disseminated pyrite.				
125-175	GABBRO: Massive (No evidence of alteration) Very dark green				
175-225	ARDESITE: Generally massive but some evidence of alteration assoc. with shearing. Some iron formation from 175-200 ft.				
225-275	ARDESITE: Schistose and chloritized; fracturing and shearing. Alterations. Quartz and calcite veins				
	From 230-245 ft., considerable evidence of sulphide mineralization including copper and iron	1-4-c	1 ft.	tr.	(230-231)
		1-4-b	1 ft.	0.02	(231-232)
		1-4-a	1 ft.	0.03	(232-233)
	233-235	1-4	2 ft.	4.38	(nil Au.)
	235-238	1-5	3 ft.	0.75	(nil Au.)
	238-240	1-5-a	2 ft.	0.12	(nil Au.)
	240-241½	1-5-b	1.5 ft.	0.05	
	241½-243	1-5-c	1.5 ft.	0.03	
	243-245	1-5-d	2 ft.	tr.	
	Iron Form. 235-238; 241-244				

82

[Handwritten Signature]

Ref: Self-Potential Plan
Dated Nov. 25, 1965

Post No. 1, claim
MR. 39477

DDH 3. 360° Az.
40° dip
416 ft. long

CLAIM MR. 39477

XL 19

XL 20

XL 27

DDH 1. 180° Az.,
40° dip
305 ft. long

DDH 2. 180° Az.
38° dip, 280 ft. long

17+00 N
PIT No. 1 (8' X 3' X 5' deep)
PIT No. 2 (10' X 4' X 8' Deep)

DRILL LOCATIONS

NORTH EXPO MINES LIMITED

CAIRO TOWNSHIP, MATACHEWAN AREA, ONTARIO

G.L. Kirwan, 3. Sec

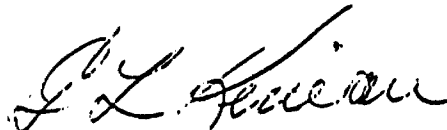
ADVANCE GEOLOGY & GEOPHYSICS LIMITED

CERTIFICATE

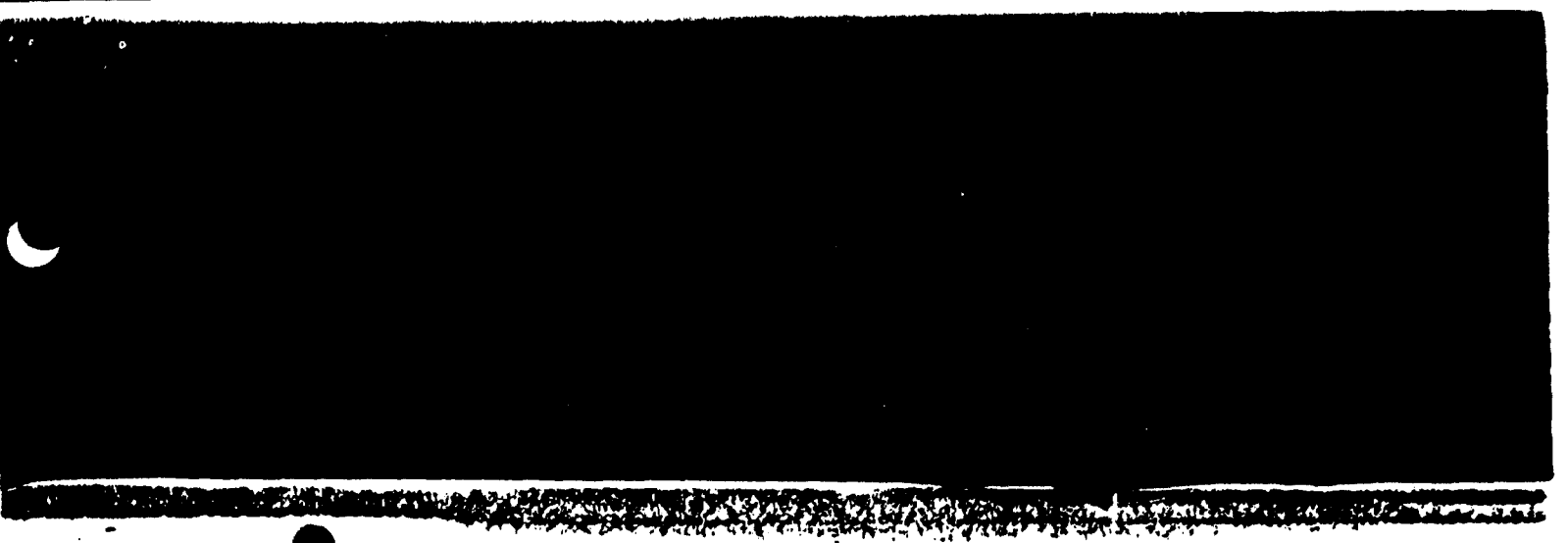
I, Gerald L. Kirwan of the city of Toronto in the Province of Ontario, hereby certify as follows:

1. That I am a graduate of Carleton University, B.Sc., 1957, and that I have practised my profession continuously since graduation.
2. That I am a geologist with offices at 40 Axsmith Cres., Willowdale, and 160 Bay St., Toronto, Ont.
3. That I am a Fellow of the Geological Association of Canada.
4. That I have no direct or indirect interest, present or expectant, in the claims forming the property of North Expo Mines Ltd. or in the shares or securities of this company.
5. That the accompanying report has been prepared by myself and is based on supervision of work done by Rosmar Corp. Ltd. as well as that of North Expo Mines Ltd.

Dated at Toronto, Ontario, this 22nd day of April, 1966



G.L. Kirwan



PRODUCT COPPER	PROVINCE OR TERRITORY Ontario	N.T.S.
--------------------------	---	--------

NAME OF PROPERTY
 NORTH EXPO

HISTORY OF EXPLORATION

LOCATION

Mining Division Montreal River District Timiskaming
 County Township or Parish Cairo
 Lot Concession or Range
 Sec. Tp. R.

Lat. 47°56.5' Long. 80°38'

The property consists of claims, located about 1 mile north of Metchewan.

Copper mineralization was discovered in the fall of 1965 as a result of diamond drilling (3 holes) in March and April 1966 to M R 39/77, a 5-foot section averaged 2.56% copper. In 90-100 feet in the hole average values were obtained in the and nickel were made, but no

OWNER OR OPERATOR AND ADDRESS

North Expo Mines Limited,
 Suite 305, 100 Adelaide St. W.,
 Toronto 1, Ontario

DESCRIPTION OF DEPOSIT

The northern 1/3 of the property is underlain by rhyolite tuff, agglomerate, and andesite. Granite underlies the remaining portion. Copper mineralization occurs in sheared andesite, in an anomaly 700 feet long and 150 feet wide, located by a self-potential survey.

HISTORY OF PRODUCTION

REFERENCES

Mineral Resources Division
"North Expo Mines Limited"

Shipping point

Distance from mine

Material shipped

Carrier

Destination

MAP REFERENCES

Map 44 a, Matchewan Gold Area, (Geol.) Sc 1" : 2,000 feet
- Accom. Annual Rept. Vol. 44, Pt. 2, 1935, Ont.
Dept. of Mines.

Map P 159, Elk Lake - New Liskeard, (Geol.) Sc 1" : 2 miles

Map 267G, Matachewan, (Aeromagnetic), Sc 1" : 1 mile.

REMARKS

MR 48

PROVINCE OR
TERRITORY

Ontario

N.T.S. AREA

41 P/15

REF.

Cu 3

HISTORY OF EXPLORATION AND DEVELOPMENT

The property consists of a group of 11 contiguous mining claims, located about 1 mile east of the Community of Matachewan.

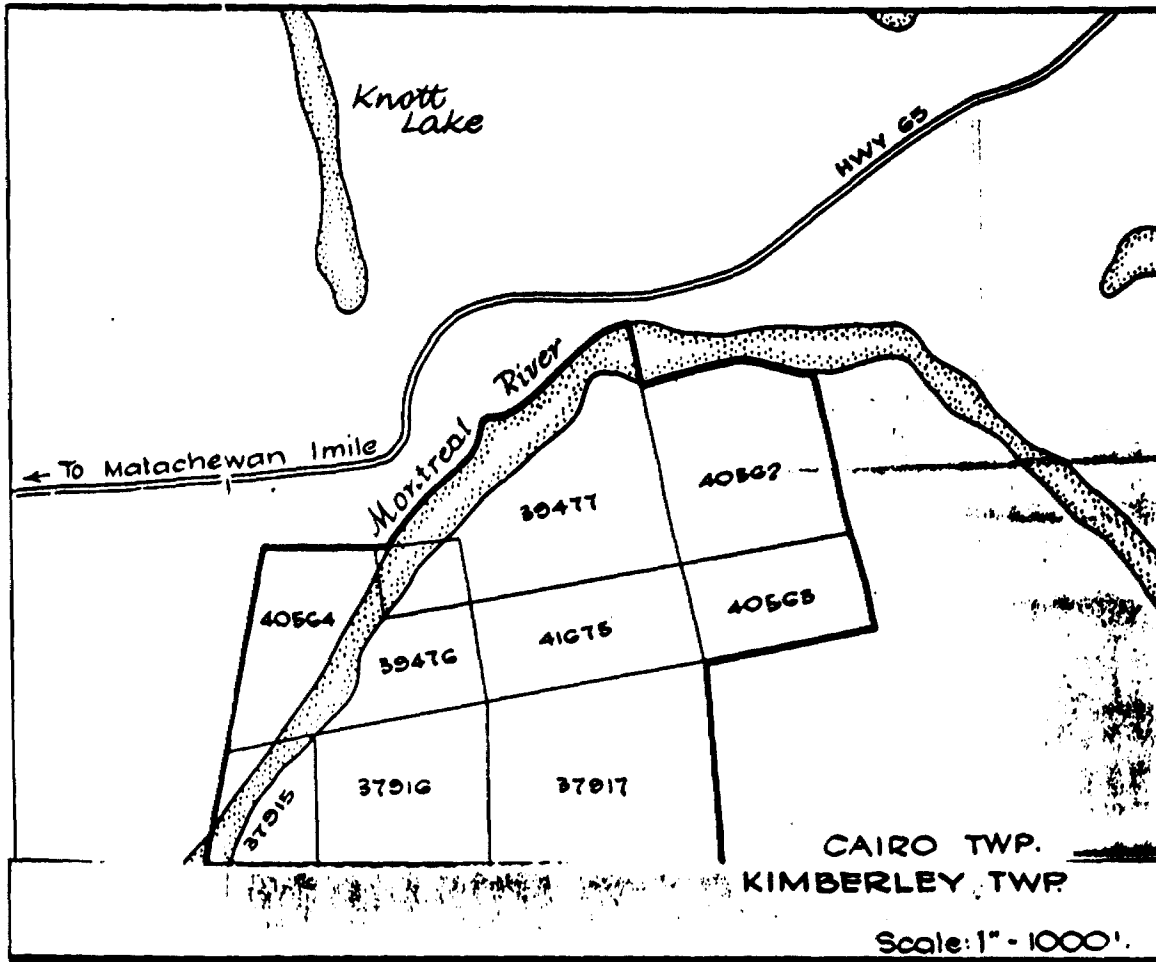
Copper mineralization on the property was discovered in the fall of 1965 as a result of geophysical work and trenching. In diamond drilling (3 holes totalling 1,001 feet) carried out in March and April 1966 to investigate an anomaly on claim M. R. 39477, a 5-foot section in one hole, from 233 - 238 feet, averaged 2.56% copper. In the second hole one section from 90-100 feet in the hole averaged 0.50% copper. Lower copper values were obtained in the third hole. Assays for gold, silver and nickel were made, but none of these were detected.

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d 150 feet

88

KEY MAP



KL - 2124 - 1

SELF POTENTIAL

ON THE PROPERTY OF

NORTH EXPO MINES LTD.

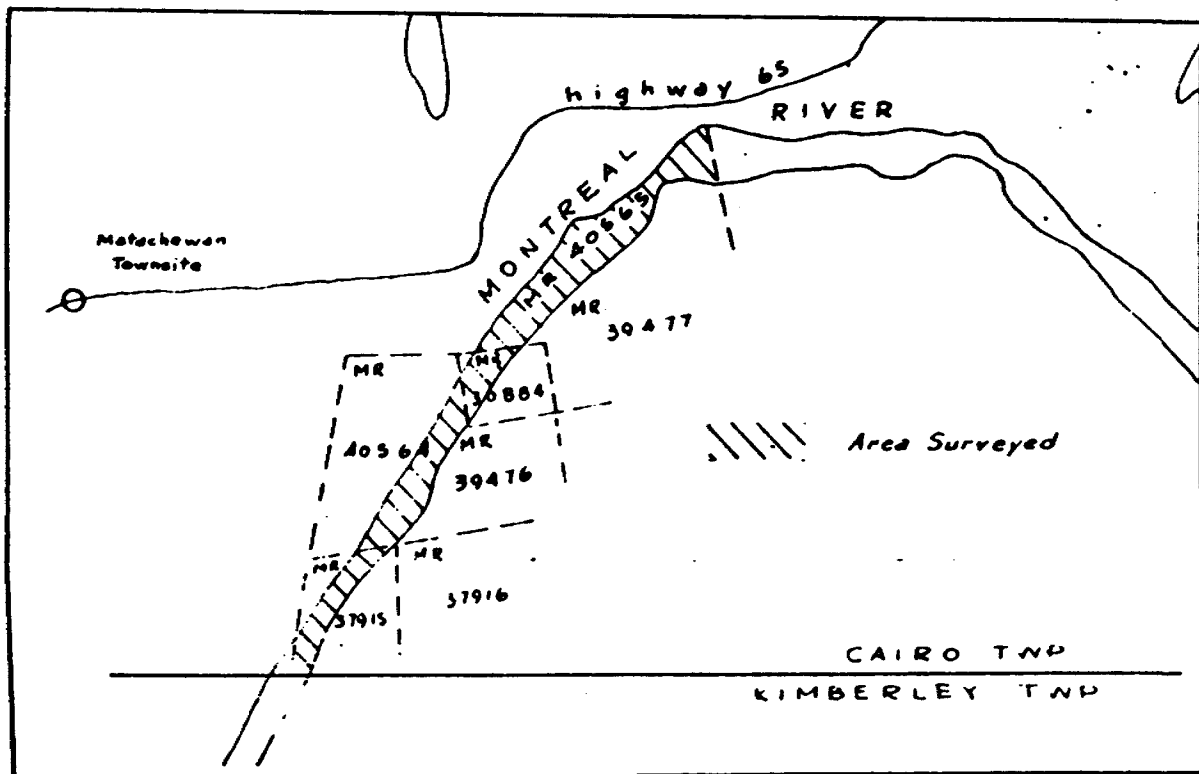
CAIRO TWP., MONTREAL RIVER MINING DIVISION, ONTARIO.

by
ADVANCE GEOLOGY AND GEOPHYSICS
TORONTO CANADA



2124-1

JK
Aug 1966
AUG. '66



KEY MAP
 1" = 2000'

96



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Assay Certificate

1W-4108-RA1

Company: **ROGER DUFRESNE**

Date: **OCT-03-91**

Project:

Copy 1. 14 Wright-Hargraves,,Kirkland Lake.

Attn:

We hereby certify the following Assay of 2 rock samples submitted OCT-02-91 by .

Sample Number	Au oz/ton	Au check oz/ton	Au 2nd oz/ton	Cu %
AA-1	0.044	0.042		3.74
AA-3	0.052	0.062	0.051	2.23

Certified by Donna Gardner



Chemex Labs Ltd.

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

HOMESTAKE MINERAL DEVELOPMENT COMPANY

2116 - 120 ADELAIDE ST., W.
TORONTO, ON
M5H 1T1

Project: 5700
Comments: ATTN: DAVID BENDING

Page No. : 1
Total Pages : 1
Certificate Date: 14-AUG-92
Invoice No. : A9219250
P.O. Number :
Account : HRD

CERTIFICATE OF ANALYSIS A9219250

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t								
DE1-1	212 274	355	0.4								
DE1-2	212 274	>10000	44.1								
DE1-3	212 274	185	-----								
DE2-1	212 274	195	-----								
DE2-2	212 274	70	-----								
CD1-1	212 274	15	-----								
CD1-2	212 274	1030	1.1								
CD1-3	212 274	145	-----								
CD1-4	212 274	430	0.4								
CD1-5	212 274	15	-----								
CD1-6	212 274	175	-----								
CD1-7	212 274	8640	7.8								
CD1-8	212 274	3370	3.2								
CD1-9	212 274	40	-----								
CMA-1	212 274	10	-----								
CMAA-1	212 274	290	-----	} CAIRO TWP.							
CMAA-2	212 274	< 5	-----								
CMB-1	212 274	< 5	-----								
CMC-1	212 274	325	0.3								
CMC-2	212 274	10	-----								

CERTIFIED BY

Adriana Alexandre

26



Laboratoires Chemex Ltee.

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

HOMESTAKE MINERAL DEVELOPMENT COMPANY

2116 - 120 ADELAIDE ST., W.
TORONTO, ON
M5H 1T1

Project : 5700
Comments: ATTN: DAVID BENDING

Page Number : 1
Total Pages : 1
Certificate Date: 25-AUG-92
Invoice No. : 19251
P.O. Number :
Account : HRD

CERTIFICATE OF ANALYSIS A9219251

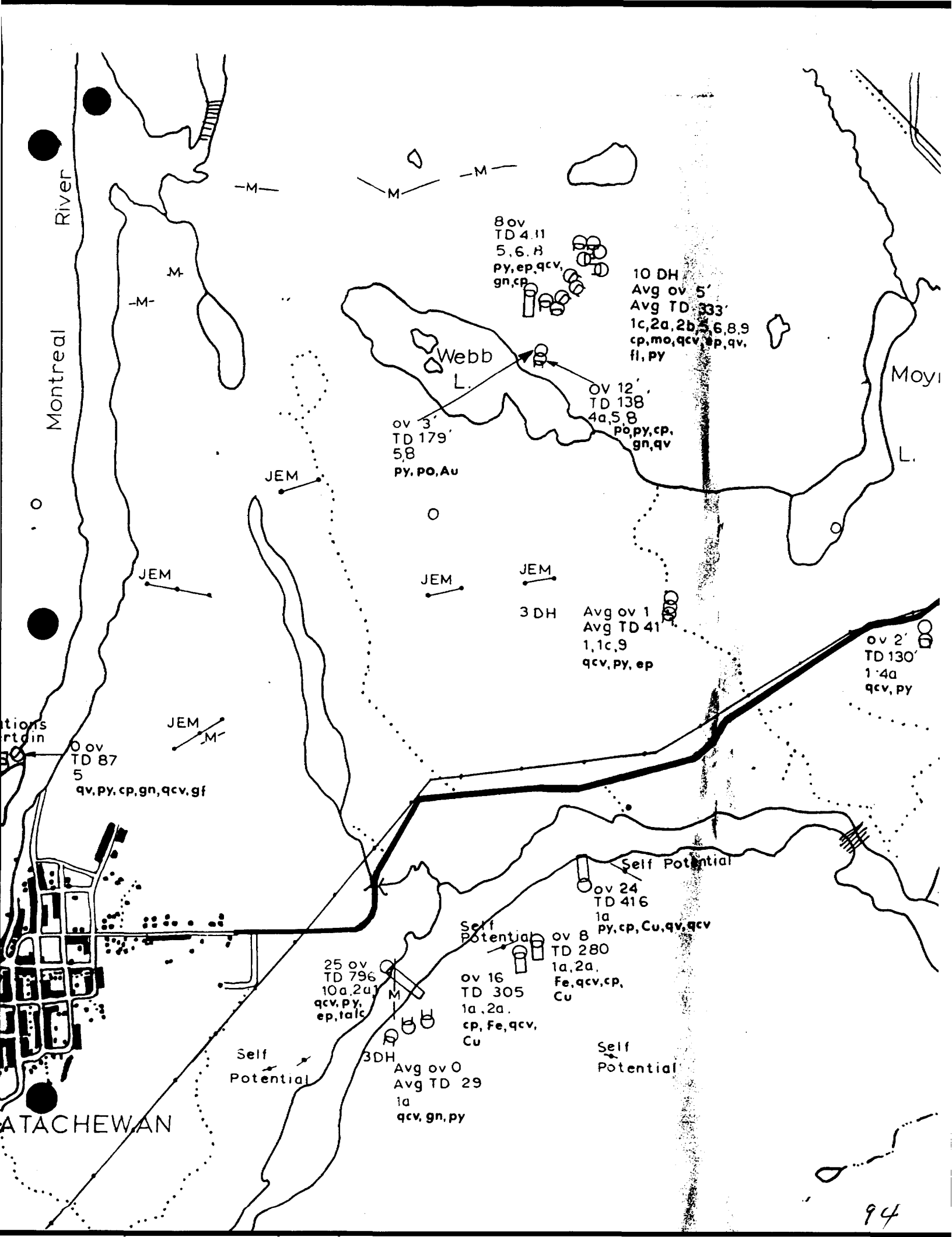
SAMPLE	PREP CODE	Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %	
CHA-2	208 274	7.63	1.53	0.13	19.10	0.05	9.52	0.09	0.06	0.57	51.51	0.80	4.79	95.77	

CAIRO TWP.

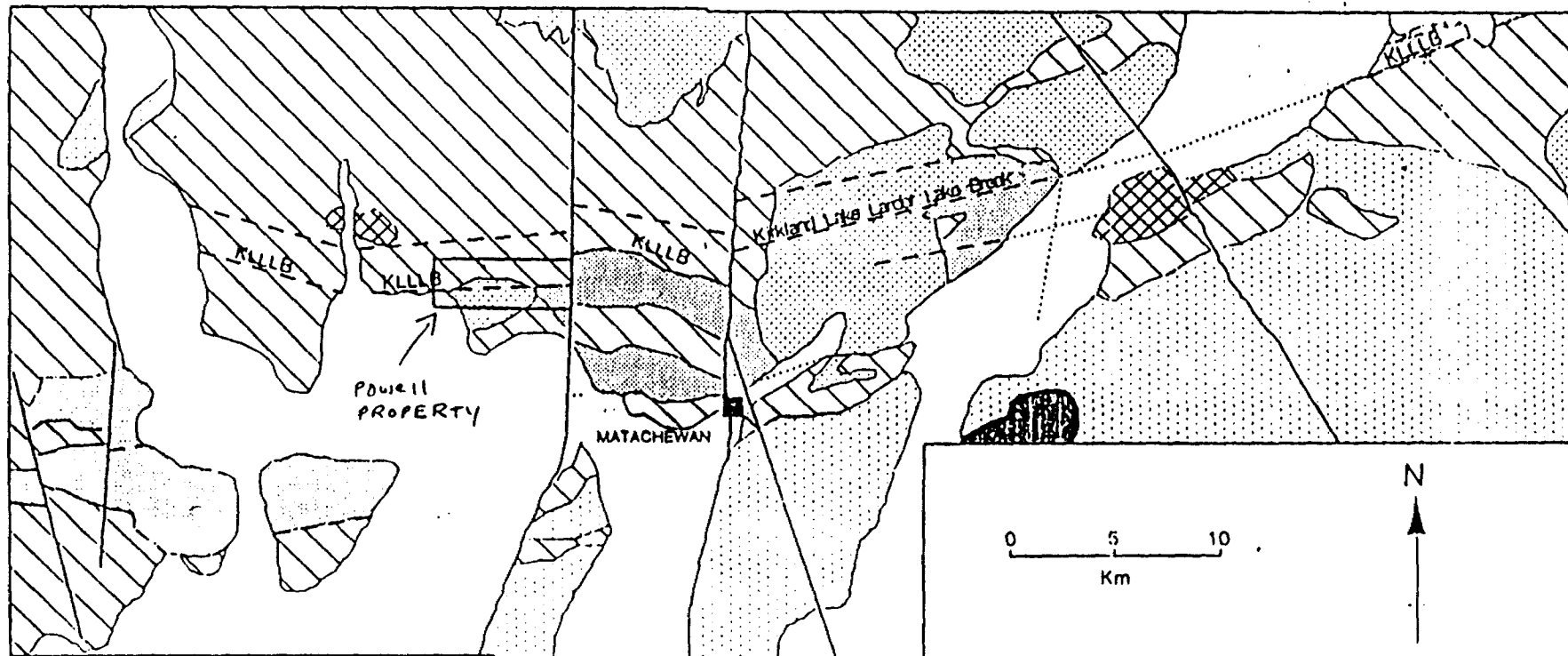
CERTIFICATION:

David Ma



93








GENERAL GEOLOGY OF THE MATACHEWAN AREA







PROTEROZOIC

-  NIPISSING DIABASE SILL
-  GOWGANDA FM. SEDIMENTS

ARCHEAN

-  ROUND LAKE BATHOLITH
-  SYENITE & GRANODIORITE STOCKS
-  MAFIC SILLS
-  TIMISKAMING GP.
-  VOLCANIC ROCKS

DEFORMATION ZONES

-  THRUST FAULT
-  SLATY CLEAVAGE FORMED ABOVE THRUST FAULTS
-  NORMAL FAULT
-  ZONE OF ERRATIC BEDDING

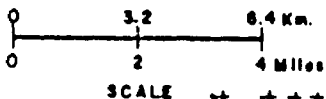
W. POWELL, QUEEN'S UNIVERSITY

25

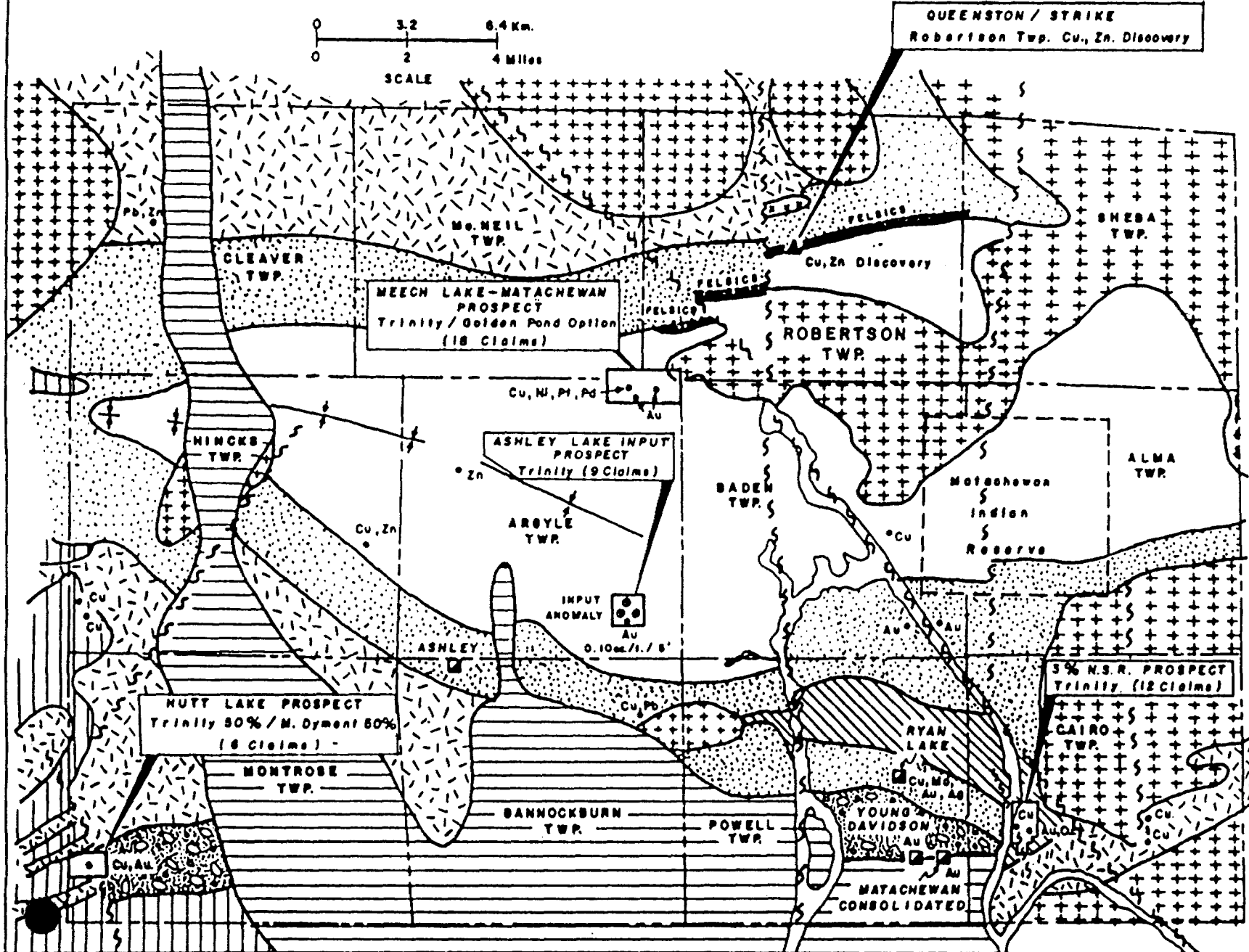
"MATACHEWAN AREA COPPER DISCOVERY"

GENERAL GEOLOGICAL and LOCATION SKETCH

96

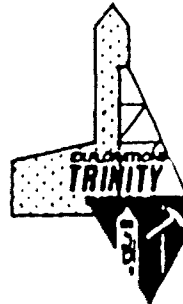


QUEENSTON / STRIKE
Robertson Twp. Cu., Zn. Discovery



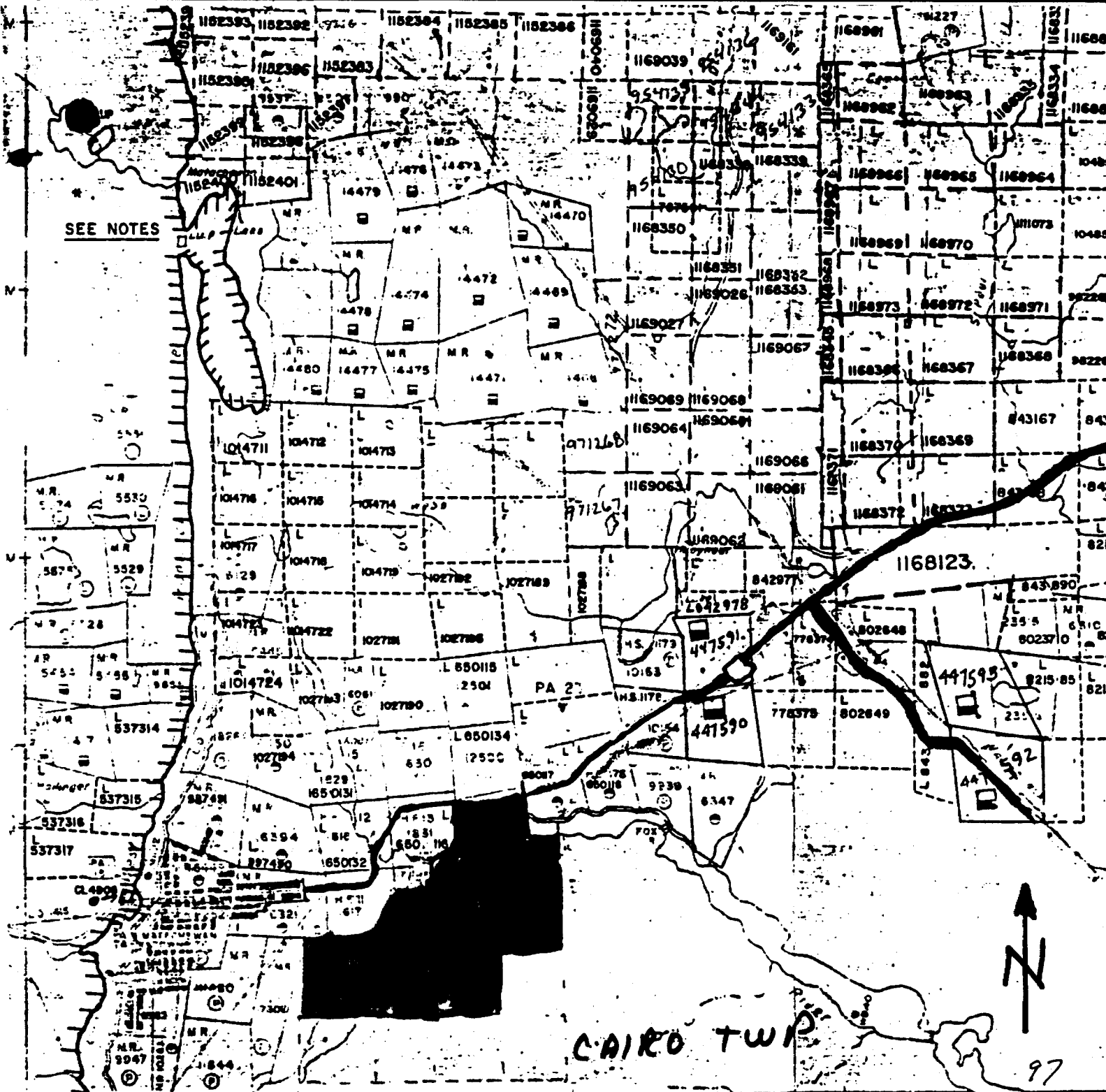
LEGEND

- Huronian Sup group unconformity
- Felsic Intrusives
- Mafic Intrusives
- PORCUPINE GROUP EQUIVALENTS**
- Conglomerate (Timiskamin)
- Greywacke (Keewatin)
- METAVOLCANIC**
- Cycle III**
- Slate River Group Equivalent
- Kinejevis Group Equivalent
- Larder Lake Group Equivalent
- Cycle II**
- Shear Group Equivalent
- Fault, Shear



(708) 667-38

(Modified after R. MacIe and P. Soble (M.P.H. Consult., 1988))



SEE NOTES

CAIRO TWP

Kimberley Twp

MATACHAN TOWNSHIP
REG. PLANS M 108



97



41P15NEB701 2.15082 CAIRO

900

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Geoscience Approvals Section
Willet Green Miller Centre
933 Ramsey Lake Rd., 6th Floor
Sudbury, Ontario
P3E 6B5

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

Our File: 2.15082
Transaction #: W9380.00093

November 1, 1993

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

Dear Sir:

**RE: APPROVAL OF ASSESSMENT WORK ON MINING CLAIMS L1179888 ET AL. IN
CAIRO TOWNSHIP.**

The Assessment Credits for GEOLOGY, section 12 of the Mining Act Regulations, as listed on the attached assessment work credit form, have been approved as of SEPTEMBER 13, 1993.

The attached assessment work credit form replaces the one filed as part of the original submission.

Please indicate this approval on the claim record sheets.

If you have any questions please call Clive Stephenson at (705) 670-5856.

Yours sincerely

A handwritten signature in black ink, appearing to read "Ron C. Gashinski".

Ron C. Gashinski
Senior Manager, Mining Lands Section
Mining and Land Management Branch
Mines and Minerals Division

CDS/lrs

✓ cc: Assessment Files Office
Toronto

Resident Geologist
Kirkland Lake

ASSESSMENT WORK CREDIT FORM

FILE NUMBER: 2.15082
DATE: November 1, 1993
TRANSACTION NUMBER: W9380.00093

RECORDED HOLDER: Roger Dufresne
CLIENT NUMBER: 127749
TOWNSHIP: CAIRO

CLAIM NUMBER	VALUE OF ASSESSMENT WORK DONE ON THIS CLAIM	VALUE APPLIED TO THIS CLAIM	VALUE ASSIGNED FROM THIS CLAIM
L 1179888	\$ 1,469.00	\$ 1,300.00	\$ 169.00
L 1179886	<u>0.00</u>	<u>\$ 169.00</u>	<u>\$ 0.00</u>
	\$ 1,469.00	\$ 1,469.00	\$ 169.00

Report of Work Conducted After Recording Claim
Mining Act

Transaction Number
W9380.00093

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 8A5, telephone (705) 670-7264.

2.15082

- 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) ROGER DUFRESNE 14 Wright-Hargreaves Kirkland Lake, Ontario P2N 1B2		Client No. 127749
Address Kirkland Lake, Ontario P2N 1B2		Telephone No. 567-3725
Mining Division LARDER LAKE	Township/Area CAIRO	M or G Plan No. 6-3209
Dates Work Performed From: APRIL 1, 1992 To: 31 12 1992		

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	GEOLOGICAL MAPPING
<input type="checkbox"/> Physical Work, Including Drilling	AND REPORT ON PROSPECTING
<input type="checkbox"/> Rehabilitation	P. 65 728.00
<input type="checkbox"/> Other Authorized Work	
<input checked="" type="checkbox"/> Assays	SWASTIKA LAB P.66 741.00
<input type="checkbox"/> Assignment from Reserve	TOTAL \$1469.00
	728.00

Total Assessment Work Claimed on the Attached Statement of Costs \$ 1469.00

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
E. CHARTRE	SERVICES EXPLORATION SERVICES, 165, BOUL. QUEBEC C.P. 428 ROUYN-NORANDA P.Q. J9X 5C4

(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 27/04/93	Recorded Holder or Agent (Signature) <i>Roger Dufresne</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.		
ROGER DUFRESNE 14 Wright-Hargreaves Kirkland Lake, Ontario P2N 1B2		
Name and Address of Person Certifying	Telephone No. 567-3725	Date 27/04/93
	Certified By (Signature) <i>Roger Dufresne</i>	

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	RECEIVED LARDER LAKE MINING DIVISION MAY 5 1993 TIME <u>10:00 a.m.</u>
Deemed Approval Date	Date Approved		
Date Notice for Amendments Sent			

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
W9380.00093

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	11,000	
	Field Supervision Supervision sur le terrain		11,000
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type POWER STRIPPING	2430	
	LINE CUTTING	1080	
	MAGNETOMETER AND GEOLOGICAL	1177	4,687
Supplies Used Fournitures utilisées	Type ASSAYS	741	
			741
Equipment Rental Location de matériel	Type		
			0
Total Direct Costs Total des coûts directs			16,428

92998

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		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20% des coûts directs)			
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)	

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

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- 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
	x 0.50 =

Remises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- 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
	x 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: Rosy Dupont Date: 24/04/93

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number
W9380-00093

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.

2.15082

- 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) ROGER DUFRESNE 14 Wright-Hargreaves Kirkland Lake, Ontario P2N 1B2	Client No. 127749
Address	Telephone No. 567-3725
Mining Division LARDER LAKE	Township/Area CAIRO
Dates Work Performed From: 01/04/1992	To: 31 12 1992
	M or G Plan No. 6-3209

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	MAGNETOMETER
<input type="checkbox"/> Physical Mapping Including Drilling	SERVICES EXPLORATION
<input type="checkbox"/> Rehabilitation	SERVICES P. 64 449.00
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ **449.00**

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
E. CHARTRE	SERVICES EXPLORATION SERVICES, 765, BOUL. QUEBEC, C.P. 428 ROUYN-NORANDA, P.Q. J9X 5C4

(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 27/04/93	Recorded Holder or Agent (Signature) <i>Roger Dufresne</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.		
ROGER DUFRESNE		
Name and Address of Person Certifying 14 Wright-Hargreaves Kirkland Lake, Ontario P2N 1B2		
Telephone No. 567-3725	Date 27/04/93	Certified By (Signature) <i>Roger Dufresne</i>

For Office Use Only

Total Value Cr. Recorded \$2998	Date Recorded May 05/93	Mining Recorder <i>[Signature]</i>	Received Stamp RECEIVED LARDER LAKE MINING DIVISION MAY 5 1993 TIME 10:00am
	Deemed Approval Date Aug 03/93	Date Approved	
	Date Notice for Amendments Sent		

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	1-1779826	ONE
Total Number of Claims		1

Value of Assessment Work Done on this Claim	Value Applied to this Claim
449.00	449.00
Total Value Work Done	
449.00	
Total Value Work Applied	
449.00	

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
449.00	0
Total Assigned From	
449.00	
Total Reserve	
0	

WORKING PRIORITY

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:

1. Credits are to be cut back starting with the claim listed last, working backwards.
2. Credits are to be cut back equally over all claims contained in this report of work.
3. 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
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Report of Work Conducted After Recording Claim
Mining Act

Transaction Number
W9380.00093

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.

2.15082

- 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) ROGER DUFRESNE 14 Wright-Hargreaves Kirkland Lake, Ontario P2N 1B2	Client No. 127749
Address	Telephone No. 567-3725
Mining Division LARDER LAKE	Township/Area CAIRO
	M or G Plan No. 6-3209
Dates Work Performed From: APRIL 1, 1992	To: 31 12 1992

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	LINE CUTTING FOR MAGNETO-METER SUREY P. 30
Physical Work, including Drilling	
Rehabilitation	1080.00
Other Authorized Work	
Assays	
Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ **1080.00**

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
PAUL DUFRESNE	Paul Dufresne 14 Wright-Hargreaves Kirkland Lake, Ont. P2N 1B2

(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 27/04/93	Recorded Holder or Agent (Signature) <i>Roger Dufresne</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.		
ROGER DUFRESNE 14 Wright-Hargreaves Kirkland Lake, Ontario P2N 1B2		
Name and Address of Person Certifying		
Telephone No. 567-3725	Date 27/04/93	Certified By (Signature) <i>Roger Dufresne</i>

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp MINING DIVISION
	Deemed Approval Date <i>see attached</i>	Date Approved <i>[Signature]</i>	MAY 5 1993
	Date Notice for Amendments Sent		TIME 10:00

Report of Work Conducted After Recording Claim
 Mining Act

Transaction Number
 W9380.00094

Assess. Lib.

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.

- 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) ROGER DUFRESNE 14 Wright-Hargreaves Kirkland Lake, Ontario P2N 1B2	Client No. 127749
Address Kirkland Lake, Ontario P2N 1B2	Telephone No. 567-3725
Mining Division LARDER LAKE Township/Area CAIRO	M or G Plan No. G-3209
Dates Work Performed From: APRIL 1, 1992 To: 31 12 1992	

Work Performed (Check One Work Group Only)

Work Group	Type	
Geotechnical Survey		56 DAYS
Physical Work, including drilling	DENIS CHARTRE P. 14 & 15	5600.00
Rehabilitation	ROGER DUFRESNE P. 26 & 27	
Other Authorized Work	54 DAYS	5400.00
POWER STRIPPING	P. 29	1350.00
Assignment from Reserve		1080.00
		13430.00

Total Assessment Work Claimed on the Attached Statement of Costs \$ **13,430.00**

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
ROGER DUFRESNE	ROGER DUFRESNE 14 Wright-Hargreaves Kirkland Lake, Ontario P2N 1B2
DENIS CHARTRE	Box 53
PAUL DUFRESNE	Paul Dufresne 14 Wright-Hargreaves Kirkland Lake, Ont. P2N 1B2

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 27/04/93	Recorded Holder or Agent (Signature) <i>Roger Dufresne</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
ROGER DUFRESNE
 14 Wright-Hargreaves
 Kirkland Lake, Ontario P2N 1B2

Telephone No. **567-3725** Date **27/04/93** Certified By (Signature) *Roger Dufresne*

For Office Use Only

Total Value Cr. Recorded \$12400 \$1030 rese	Date Recorded May 05, 1993	Mining Recorder <i>[Signature]</i>	Received Stamp RECEIVED LARDER LAKE MINING DIVISION MAY 5 1993
	Deemed Approval Date August 03, 1993	Date Approved 15 July 16, 1993	
	Date Notice for Amendments Sent		



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
W9380.00094

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	11,000	
	Field Supervision Supervision sur le terrain		11,000
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type POWER STRIPPING	2430	
	LINE CUTTING	1080	
	MAGNETOMETER AND GEOLOGICAL	1177	4,687
Supplies Used Fournitures utilisées	Type ASSAYS	741	
			741
Equipment Rental Location de matériel	Type		
			0
Total Direct Costs Total des coûts directs			16,428

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		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démoblisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			
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) 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

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- 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
	x 0.50 =

Remises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- 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
	x 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: *Ross Dufour* Date: 24/04/93

Report of Work Conducted After Recording Claim

Transaction Number
W9380.00094

Assess. Lib. 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) 670-7264.

- 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) ROGER DUFRESNE 14 Wright-Hargreaves Kirkland Lake, Ontario P2N 1B2		Client No. 127749
Address Kirkland Lake, Ontario P2N 1B2		Telephone No. 567-3725
Mining Division LARDER LAKE	Township/Area CAIRO	M or G Plan No. G-3209
Dates Work Performed From: APRIL 1, 1992	To: 31 12 1992	

Work Performed (Check One Work Group Only)

Work Group	Type	
Geotechnical Survey		56 DAYS
Physical Work, including Mining	DENIS CHARTRE P. 14 & 15	5600.00
Rehabilitation	ROGER DUFRESNE P. 26 & 27	
Other Authorized Work	POWER STRIPPING	54 DAYS 5400.00
	Paul Dufresne 14 Wright-Hargreaves Kirkland Lake, Ont. P2N 1B2	P. 29 1350.00
Assignment from Reserve		1080.00
Total Assessment Work Claimed on the Attached Statement of Costs		\$ 13,430.00

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
ROGER DUFRESNE	ROGER DUFRESNE 14 Wright-Hargreaves Kirkland Lake, Ontario P2N 1B2
DENIS CHARTRE BOX 53	
PAUL DUFRESNE	Paul Dufresne 14 Wright-Hargreaves Kirkland Lake, Ont. P2N 1B2

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 27/04/93	Recorded Holder or Agent (Signature) <i>Roger Dufresne</i>
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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 ROGER DUFRESNE 14 Wright-Hargreaves Kirkland Lake, Ontario P2N 1B2		
Telephone No. 567-3725	Date 27/04/93	Certified By (Signature) <i>Roger Dufresne</i>

For Office Use Only

Total Value Cr. Recorded \$1200 \$1030 rese	Date Recorded May 05, 1993	Mining Recorder <i>[Signature]</i>	Received Stamp RECEIVED LARDER LAKE MINING DIVISION MAY 5 1993
	Deemed Approval Date August 03, 1993	Date Approved 25 July 16, 1993	
	Date Notice for Amendments Sent		



Statement of Costs
for Assessment Credit

État des coûts aux fins
du crédit d'évaluation

Transaction No./N° de transaction

W9380.00094

Mining Act/Loi sur les mines

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	11,000	
	Field Supervision Supervision sur le terrain		11,000
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type POWER STRIPPING	2430	
	LINE CUTTING	1080	
	MAGNETOMETER AND GEOLOGICAL	1177	4,687
Supplies Used Fournitures utilisées	Type ASSAYS	741	
			741
Equipment Rental Location de matériel	Type		
			0
Total Direct Costs Total des coûts directs			16,428

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		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			
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)	

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
	x 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
	x 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

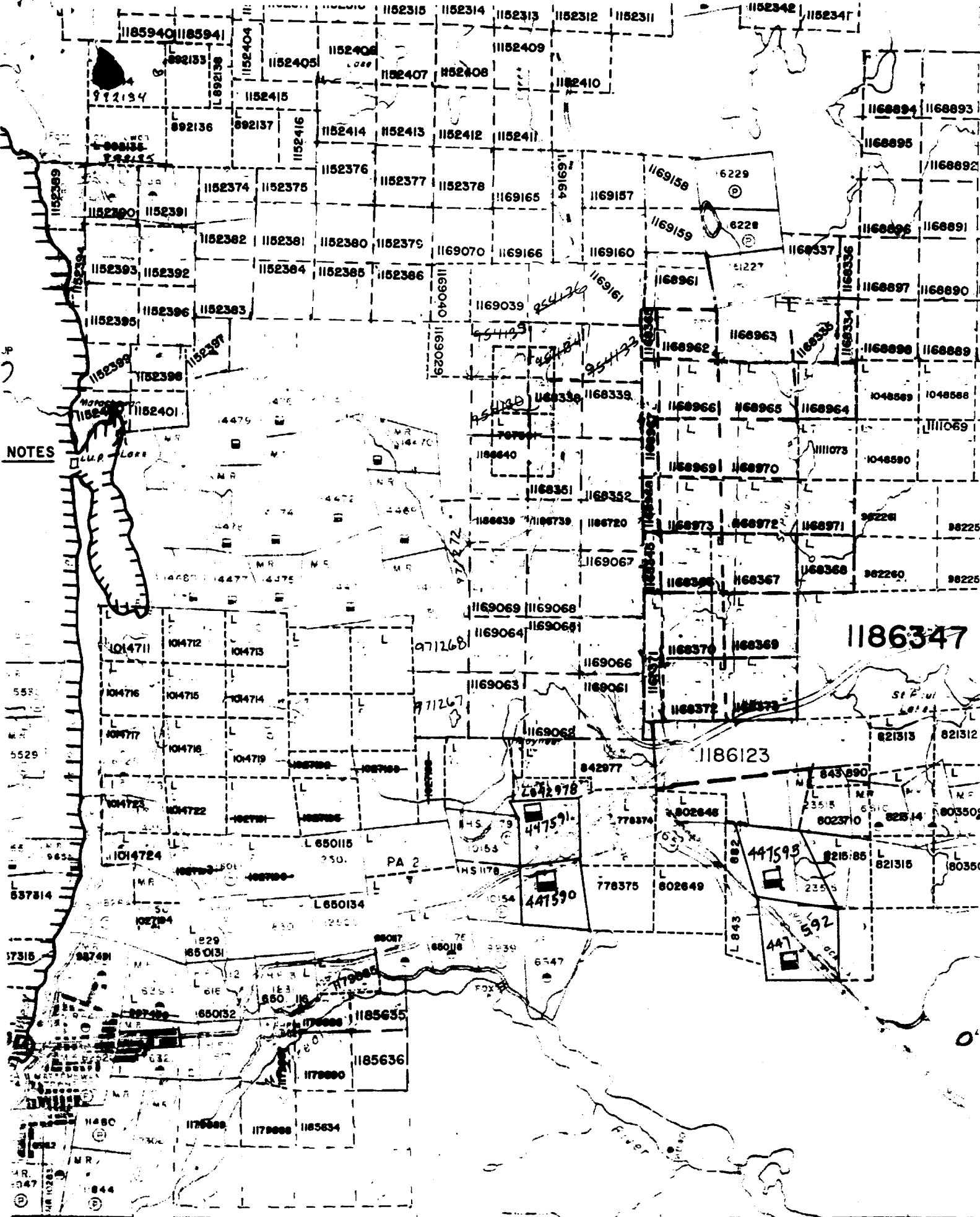
Attestation de l'état des coûts

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 *Rosy Dufresne* Date *04/04/93*



NOTES

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File

(R) MINING AND SURFACE RIGHTS NOT OPEN TO STAKING, APPLICATION UNDER SECTION 3(b) JUNE 12/1987.

GL 4908 - PENDING APPLICATION UNDER PUBLIC LANDS ACT

LAND USE PERMIT

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.

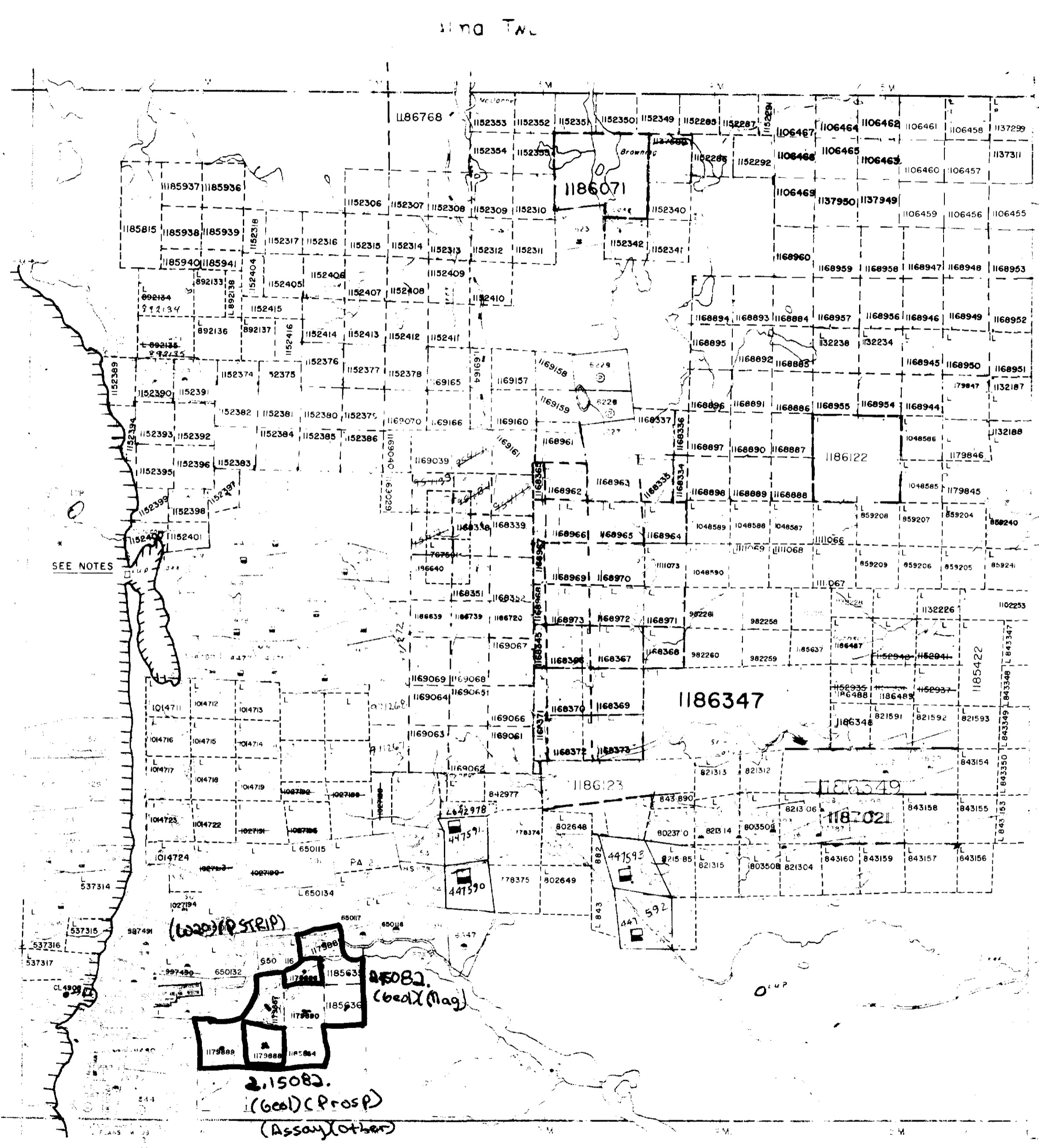
NOTES

AREA WEST OF WEST MONTREAL RIVER CLOSED TO STAKING SUBJECT TO SEC. 38(1) OF THE MINING ACT, 20 SEPT. 1978. W 65/83

"THIS MAP SHOWS THE APPROXIMATE LOCATION OF THE BOUNDARIES OF THE AREA WHICH IS THE SUBJECT OF CURRENT LITIGATION. THE EXACT LOCATION WILL BE SHOWN FOLLOWING CONFIRMATION BY THE PARTIES TO THE ACTION."

NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE PLONSKI FOREST MANAGEMENT UNIT AND MAY BE SUBJECT TO FORESTRY OPERATIONS. THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 129 SWASTIKA, ONT. POK ITO



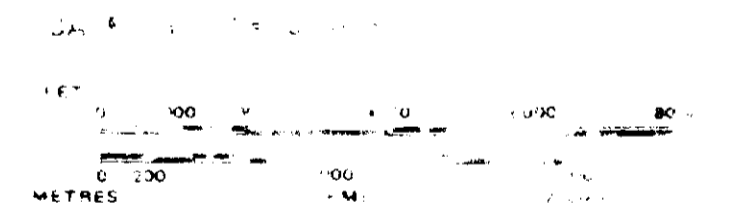
Kimberley Twp.

DESCRIPTION	SYMBOL
HIGHWAY ROUTE NO.	
OTHER ROADS	
RAILS	
SURVEYED LINES	
TOWNSHIPS, RANGE LINES, ETC.	
LOTS, MINING CLAIMS, PARCELS, ETC.	
SURVEYED LINES	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS, ETC.	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
CONCRETE OR STEEL	
CLOUD NO. OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE PLAN	
SURVEYED LINES	
SIGNAL SHOP LINE	
MARSH OR MUSKOG	
MINES	
TRAVERSE ALIGNMENT	

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	
LEASE SURFACE & MINING RIGHTS	
LEASE SURFACE RIGHTS ONLY	
LEASE MINING RIGHTS ONLY	
LEASE OF OCCUPATION	
ORDER IN COUNCIL	
RESERVATION	
CANCELLED	
LAND GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 1, 1913, VESTED IN ORIGINAL PATENTEE AT THE PUBLIC LANDS ACT OF 1912 (CHAP. 38, SECT. 63.5, 64.1)



DATE OF ISSUE
MAY 5 1983
LARDER LAKE
MINING RECORDER'S OFFICE

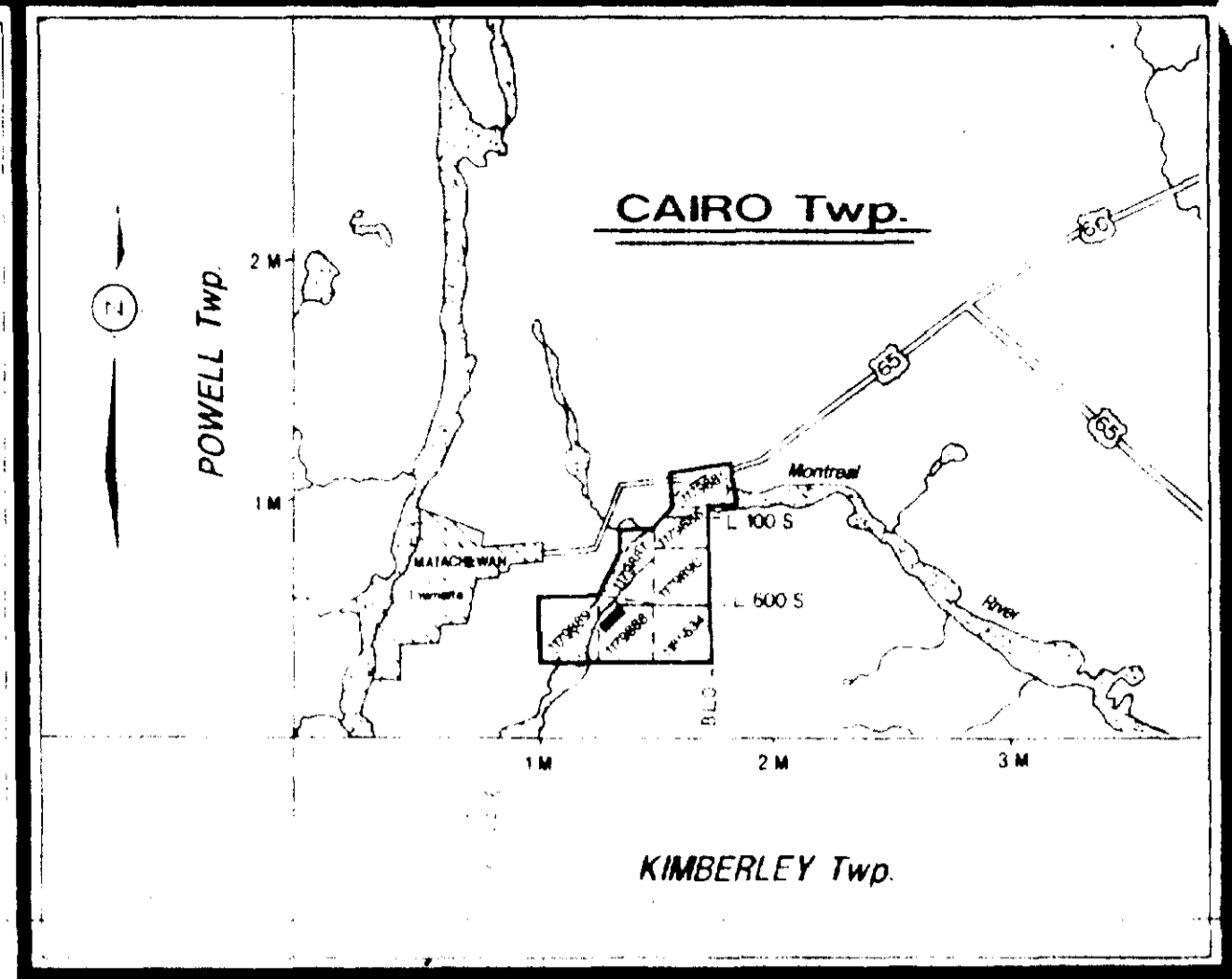
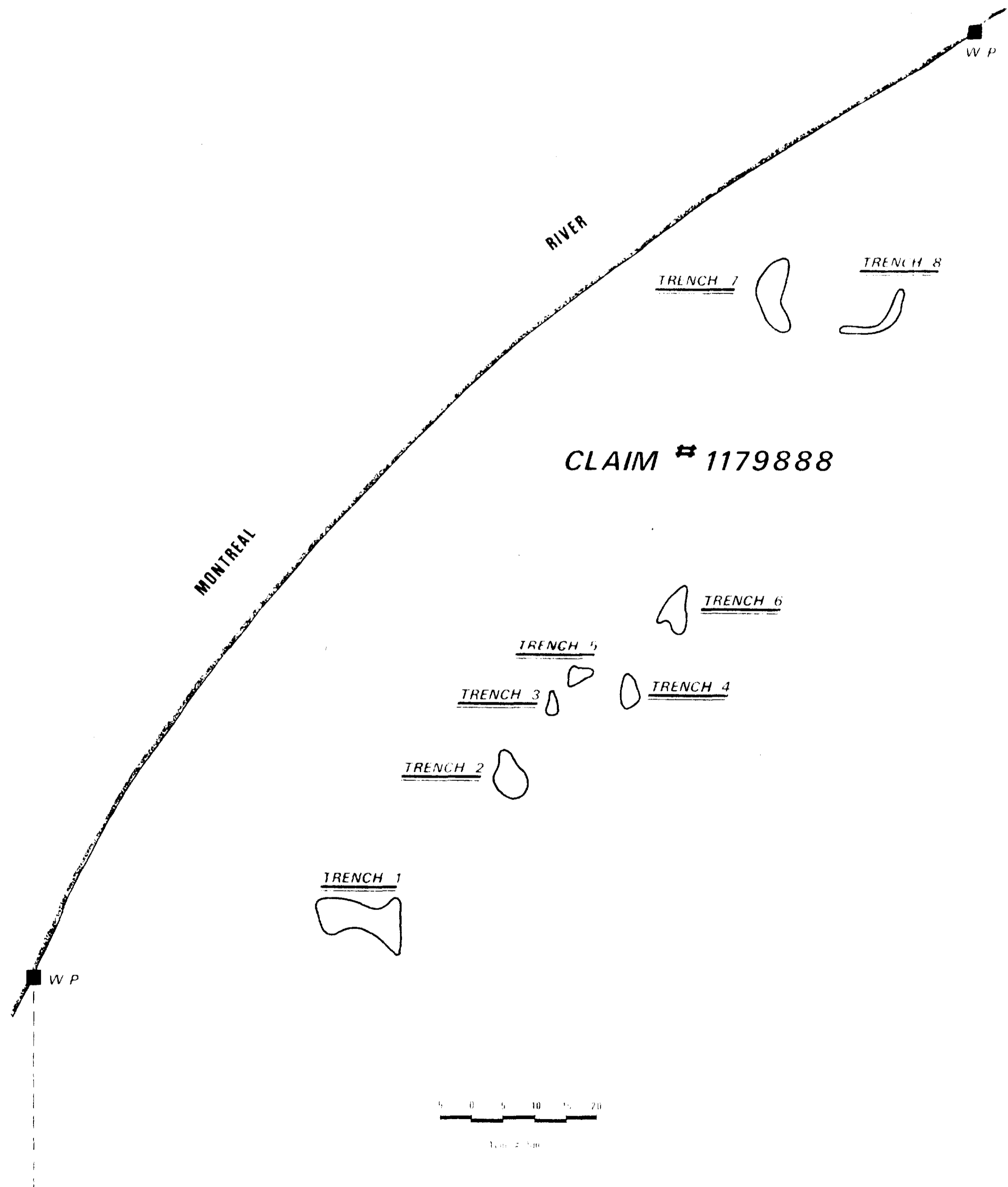
TOWNSHIP
CAIRO
M.N.R. ADMINISTRATIVE DISTRICT
KIRKLAND LAKE
MINING DIVISION
LARDER LAKE
AND TITLES / REGISTRY DIVISION
TIMISKAMING

Ministry of Natural Resources Ontario
Ministry of Northern Development and Mines

DATE: JULY 1976
G-3209

COPY OF THIS MYLAR ARCHIVED SEPT 6 1991





INDEX MAP
SCALE: 1:5000
METRES

LOCATION MAP OF TRENCHED AREA FOR <i>Chartre-Dufresne Project</i>	
PROJECT CAIRO TWP. PROPERTY	
SURVEYED BY I. A. CHARTRÉ	DATE: SEPTEMBER 1992
DRAWN BY G. CHOUINARD	SCALE: 1:500
SERVICES EXPLORATION SERVICES ENRG. REGD.	

