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**MINISTRY OF NORTHERN DEVELOPMENT AND MINES**

**ASSESSMENT REPORT**

**RECEIVED**  
MAY 16 1995  
MINING LANDS BRANCH

**HOTSTONE WEST PROPERTY**

**GREENLAW TOWNSHIP**

**NTS 41 0/10**

**47°43'N LATITUDE  
82°48'W LONGITUDE**



*Quail # 2.14652*

**BARRY MCDONOUGH  
JANUARY 11, 1995**

**RECEIVED**  
JAN 20 1995  
PORCUPINE MINING DIVISION

## SUMMARY

This report outlines the exploration program, (consisting of linecutting, mapping, trenching, geophysical and geological surveys), done on a group of claims in Greenlaw Township of the Porcupine Mining Division (NTS Reference 41 O/10) at 47° 43'N latitude, 82° 48'W longitude and is being submitted to the Ministry of Northern Development and Mines for assessment credits on unpatented claims as required under the Ontario Mining Act.

The area discussed in this submission consists six unpatented claims east of Hotstone Lake held by Delcey McDonough, of 24 Greenmeadow Court, St. Catharines, Ontario, the widow of Kervin McDonough, the previous owner who passed away December 10, 1993.

The purpose of the program for the 1993 season was to complete the geophysical investigation started in 1992 and to conduct a trenching and mapping program.

A number of geophysical conductors were encountered, and the stripping program discovered areas of structural and lithological interest, which unfortunately, returned low gold values.

Recommendations are made for follow-up work.

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## 1.0 INTRODUCTION

This report outlines the exploration program, (consisting of linecutting, mapping, trenching and geophysical surveys), done on a group of claims in Greenlaw and Cunningham Townships of the Porcupine Mining Division (NTS Reference 41 O/10) at 47°43'N latitude, 82°48'W longitude. This report is being submitted to the Ministry of Northern Development and Mines for assessment credits on unpatented claims as required under the Ontario Mining Act.

The property, entitled Hotstone West, is made up of six, one unit, unpatented claims. It is held 100% by Delcey McDonough of 24 Greenmeadow Court, St. Catharines, Ontario. She is the widow of the previous owner, Kervin McDonough. The author of this report is Barry McDonough, her son, who is a geologist and will not be compensated in any way for the execution of this document. (Please see Appendix A).

All the claims included in this submission are presently in good standing. (Please see Appendix B).

Exploration has been concerned with the discovery of a precious metal (Gold) ore body, but the potential for base metals exists in the area. The initial aim of this program was to follow up work performed during the 1992 season. The 1992 exploration program consisted of geological and geophysical surveys over the entire property, the results of which were filed for assessment credits in May 1993.

The aim of the program for the 1993 season was to enhance the database on the property. This was accomplished by ongoing

systematic exploration programs which took the following forms.

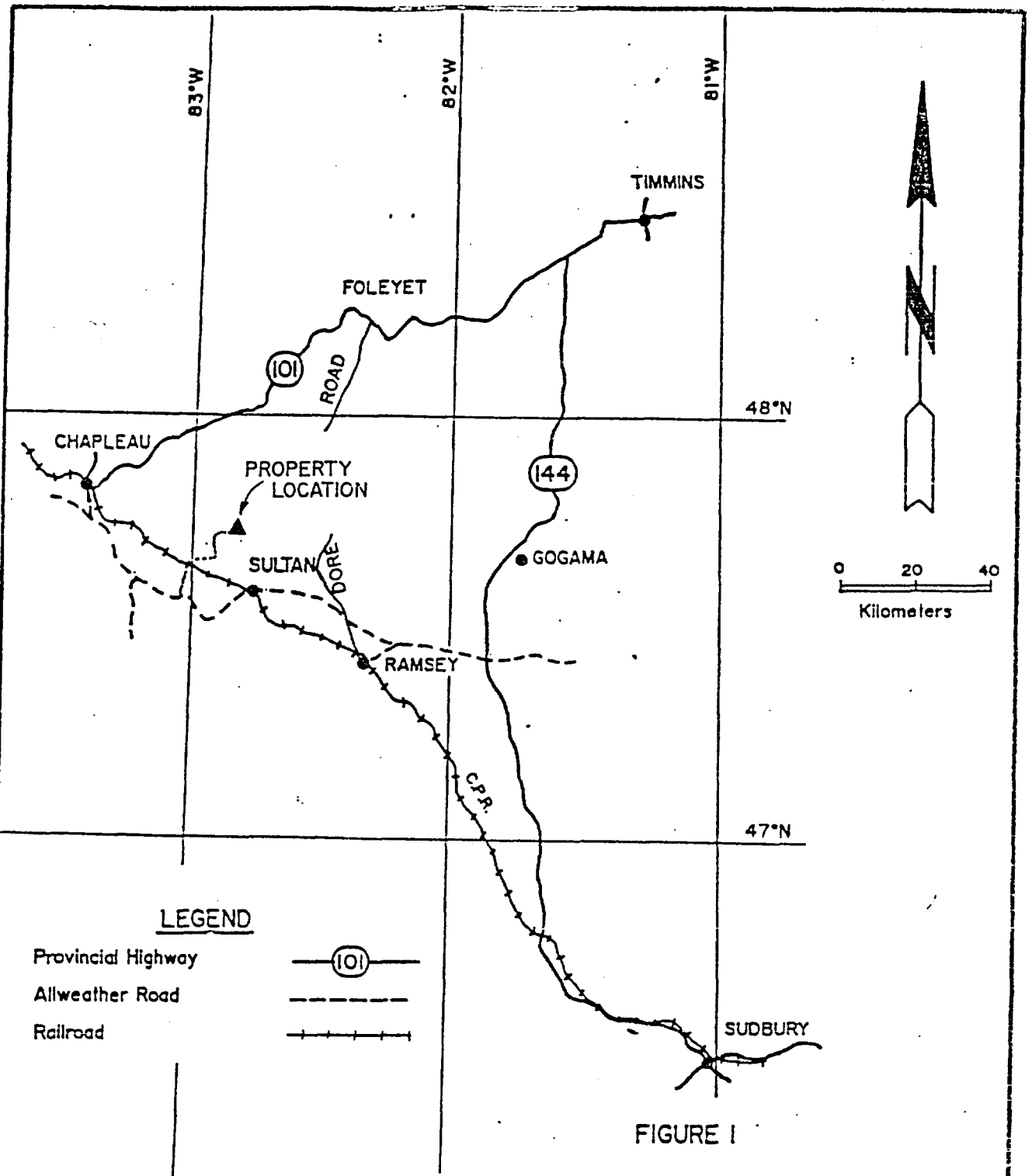
Additional line cutting was completed on Hotstone West and the entire property was surveyed using a magnetometer and a Crone RADEM electromagnetic instrument. Further mechanical stripping was completed and superficially mapped and sampled.

The work was done with the assistance of the Ministry of Northern Development and Mines' OPAP program. All the work completed was done by the author, Mr. McDonough and various contractors. Unfortunately, Mr. McDonough's ill health prevented a greater contribution being made. Mr. McDonough passed away December 10, 1993. A vesting order has been approved by the Mining Commissioner and all interest in the claims possessed by Mr. McDonough have been vested with his wife and sole beneficiary, Delcey McDonough.

A great deal of assistance was provided by Mr. John Wakeford, area manager of Noranda Exploration Company, Limited in Timmins. Mr. Wakeford allowed the author the use of technical and field equipment. Mr. Wayne Corstorphine, also of Noranda, provided technical assistance and lent a great deal of his time and personal support to the author.

## 2.0 LOCATION AND ACCESS

The property is located within Greenlaw Township which is a part of the Porcupine Mining Division. Situated fifty miles east of Chapleau, Ontario the Hotstone West property is accessible by four-wheel drive vehicle (Figure 1).



LEGEND

- Provincial Highway      ——— (101) ———
- Allweather Road        - - - - -
- Railroad                 + + + + +

FIGURE I

GREENLAW TOWNSHIP CLAIMS  
 SWAYZE AREA, ONTARIO  
 LOCATION MAP

JUNE, 1991

The camp was located on a large stripped area immediately west of Hotstone Lake.

### 3.0 GENERAL GEOLOGY

Sheared and intermediate to mafic flows, tuffs and sediments typify the geology of the area. Its most significant feature is, however, the Hotstone Lake Carbonate Zone which is composed of interbedded ultramafic-komatiitic flows and tuffs, metasediments and minor cherty banded iron formation. The entire package is contained with a serpentized massive ultramafic intrusive.

From an economic perspective, interest in this area is as a result of thirteen quartz boulders which were discovered in 1984 by Noranda Exploration while digging a sump for their stripping and washing program. The average assay for these boulders was approximately 1.5 ounce per ton Au with values ranging up to 14 ounce per ton Au. Visible gold was noted. Due to the angularity, size and extreme friability of these boulders it is believed that their source is in close proximity to their area of discovery.

### 4.0 PREVIOUS WORK

Line cutting and trenching programs were conducted in 1990. The 1991 program included washing and mapping of existing trenches. The 1992 program consisted of a detailed mapping survey done over the existing grid and the mapping of the trenches with respect to the grid and extension of some of the existing grid lines.



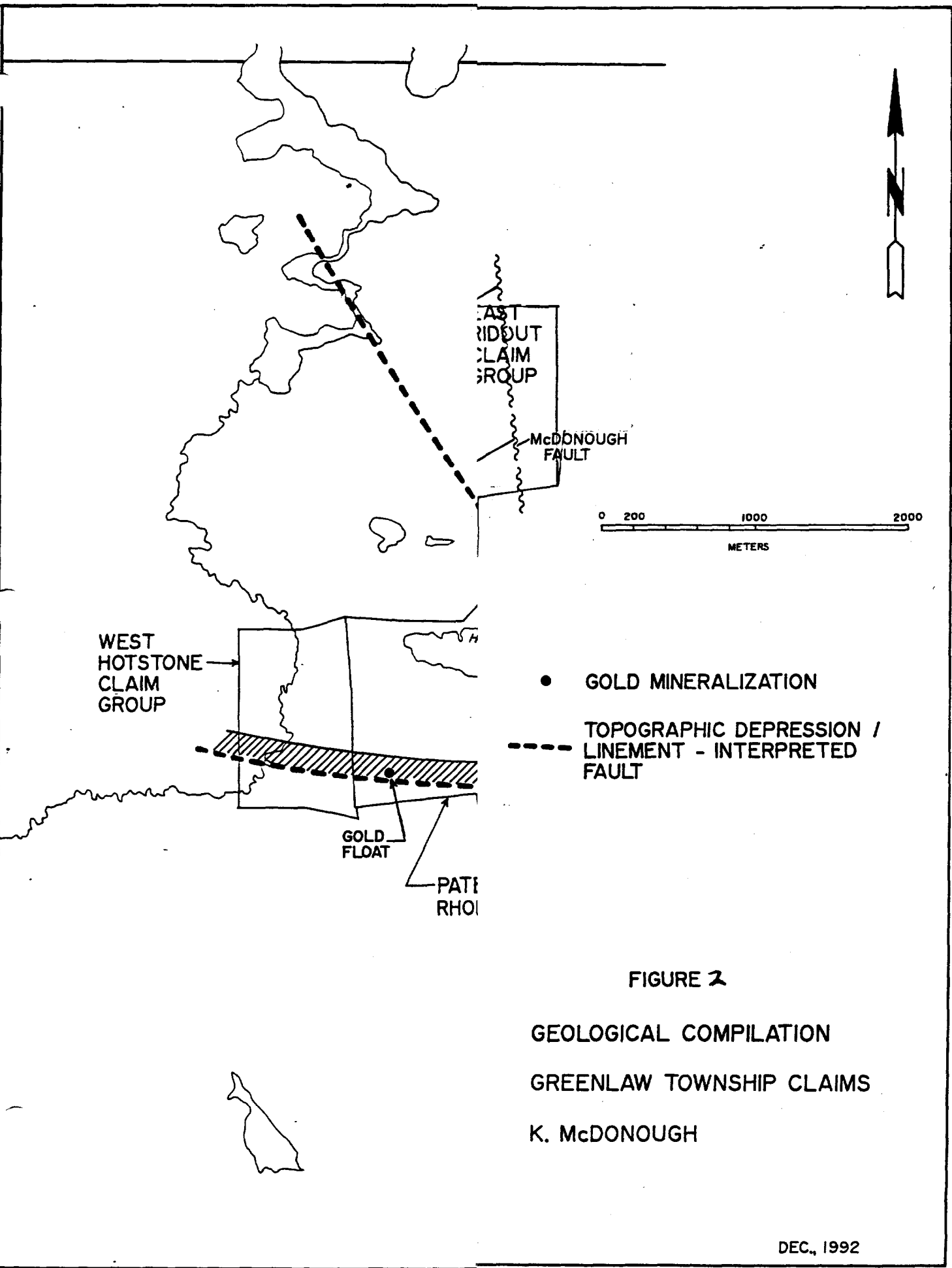


FIGURE 2  
 GEOLOGICAL COMPILATION  
 GREENLAW TOWNSHIP CLAIMS  
 K. McDONOUGH

Please see Appendix C for regional work done by other companies and individuals.

#### 5.0 WORK DONE

The primary focus of the 1993 field season was to expand upon the data that was collected the previous year and perhaps interest a mining company in an option agreement. The bulk of the work was to be done by Kervin McDonough between the dates of May 18 and October 10, 1993 but failing health seriously curtailed his effectiveness. Employment opportunities arose that dictated that the author be out of the province for the period of June 9 to October 1, 1993. To compensate, local contractors were hired to assist Mr. McDonough in the absence of the author.

In 1993 season a native line cutter, Mike Wabano of Timmins, was employed to add onto the existing Hotstone West grid. Magnetometer and VLF surveys were conducted by John Charbonneau of Timmins and the author respectively on October 13 and 14, 1993.

Initially it was hoped that a hole could be drilled into a resulting anomaly but funds were not sufficient to allow this. Instead further mechanical stripping was done along the sections that were proposed for drilling in an effort to establish a similar database. Mr. Charbonneau operated a John Deere 450 Tractor rented from Tracks and Wheels in Timmins from September 18 to September 25, 1993. The operation was supervised by Mr. McDonough.

The onset of winter made a washing program impractical so mapping and sampling was done over the unwashed trenches. A total of twelve rock samples were taken and assayed for gold by Chauncy Assay Labs of Mississauga using one assay ton with atomic absorption finish. Mapping and sampling were done October 16 and 17, 1993.

#### 6.0 INSTRUMENTS AND METHODS

The VLF instrument used in the 1993 survey was the Crone RADEM-VLF. The RADEM VLF measures field strength with an accuracy of 1%. The survey utilized the Seattle, Washington frequency of 24.8 kHz.

An area was designated as a base station and the unit was zeroed. Grid lines were done in loops and at the end of each days' surveying another reading was taken at the base station so any drift corrections could be made.

The magnetometer used for the 1993 surveys was a Geometrix G-816 Proton Precession magnetometer. As with the VLF survey, lines were done in loops with duplicate readings being conducted along the baseline to calculate drift corrections.

The resulting maps were produced using the facilities of Noranda Exploration in Timmins with the assistance of Mr. Wayne Corstorphine. Drift corrections were done automatically by Noranda's geophysical program.

## 7.0 RESULTS

### Magnetometer Survey

Only 2.35 miles (3.75 kilometres) of survey was conducted over four grid lines. The survey was complicated by an error in chaining where extended lines changed measurement systems from imperial to metric. To simplify all readings were converted to imperial.

A somewhat offset but fairly continuous trend is observed between L0+00 and L12+00W between 6+00N (on L0+00) and 9+00N (on L12+00W). Mapping and trenching in the area fail to completely explain the anomaly but regional trends indicate a shear zone coincident with a contact between sheared and carbonate altered ultramafic volcanics and a sheared mafic to intermediate volcanics. The centres of the magnetic anomalies are covered by swamp or overburden.

The anomaly centred at L0+00/10+00N was observed to be contact between a chlorite-carbonate altered mafic volcanic flow and a felsic intrusive sill(?). This contact may be zone of concentration for secondary magnetite or pyrrhotite mineralization.

The anomaly on L4+00W/11+00N coincides with a chlorite-sericite schist unit and may also be due to secondary magnetite or pyrrhotite.

The anomaly on L8+00W/1400N occurs in an area of poor outcrop exposure and cannot be explained. (Please see map 2).

### VLF Survey

As with the magnetometer survey, chainage irregularities made necessary a conversion of data from metric to imperial on a best-fit basis.

The best anomaly encountered stretched from L0+00/5+50N to L8+00W/6+00N. Associated with a magnetic high this conductor likely represents an electromagnetic expression of a east-west trending shear zone which coincides with an ultramafic/mafic contact. Of particular interest is the location of the auriferous boulders discovered in 1984. The sump in which they were discovered lies on strike of this trend approximately 150 meters to the east.

Two other cross-overs occur on L0+00 at 18+50N and 19+50N but these appear isolated. Both occur within a swamp and cannot be explained geologically.

Another cross-over occurs at L12+00W/8+50N but is isolated. (Please see map 3).

### Trenching

Ideally a number of diamond drill holes would have been preferred. Due to lack of funds this more economical method of exploration was decided upon.

Five sections were trenched, mapped and a total of twelve samples were taken. The trenching was successful in locating undiscovered quartz veins and lithological contacts. The ultramafic-mafic volcanic contact was confirmed along strike in the northern portion of the stripped sections. A number of

significant quartz veins, up to 30 centimetres in width (samples HS-93-2 and HS-93-3), were uncovered. Unfortunately, assay results were poor with the highest assay being 48 ppb Au.

Alteration and structural elements encountered were similar to those discovered in previous trenching and mapping. A small shear bearing 100 was uncovered over sixty metres between 10+00 W and 12+00W.

The time of year, late fall, made it impractical to conduct a washing program on the new trenches. Mapping was done to tie in the trenching with the existing grid.

Sections were trenched in an attempt to derive data similar to that which would have been gathered with a series of drill holes. Unfortunately, the best target, a coincident east-west trending magnetometer/VLF anomaly occurs in a swamp where trenching with a bulldozer is impossible. (Please see map 4).

#### 8.0 CONCLUSIONS AND RECOMMENDATIONS

Structurally complex, possessing local zones of known gold mineralization and containing areas of pervasive silica and carbonate alteration, the Hotstone/Ridout region has abundant potential for hosting a gold deposit of economic value. In addition the presence of ultramafic volcanic rocks makes it a potential base metal target. Further exploration is warranted on the Hotstone West property.

The following programs are recommended:

1. A geochemical survey along the existing grid lines to help isolate the potential source of the auriferous boulders.
2. A small diamond drilling program consisting of one to four holes at 400 foot centres to test the continuous magnetic and electromagnetic target.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Barry McDonough". The signature is written in black ink and is positioned above the typed name.

Barry McDonough  
Geologist

2.15918

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

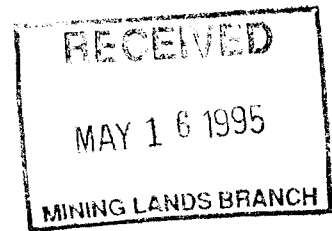
ADDENDUM TO ASSESSMENT REPORT

HOTSTONE WEST PROPERTY

GREENLAW TOWNSHIP

NTS 41 O/10

47 43'N LATITUDE  
82 48'W LONGITUDE



BARRY MCDONOUGH  
MAY 4, 1995



TABLE OF CONTENTS

INTRODUCTION. . . . . 1

CONCLUSIONS. . . . . 3

APPENDIX A: CLAIM NUMBERS

## 1.0 INTRODUCTION

This report is being written as an addendum to a previously submitted assessment report. (Please see original report for Location and Access, General Geology, Previous Work, etc.). Its purpose is to address deficiencies found in the original report regarding a mechanical stripping program on the Hotstone West claim group. The group, consisting of six one-unit unpatented claims, is located within Greenlaw Township in the Porcupine Mining Division (NTS 41 O/10, 47 43'N Latitude, 82 48'W Longitude).

The program was executed by Mr. John Charbonneau between September 20 and September 26, 1993 using a John Deere 450G Bulldozer. The purpose of the program was to strip off the overburden and expose the underlying bedrock. The work was funded through OPAP grants awarded to the author and Mr. Kervin McDonough, now deceased. It was hoped, originally, that funding was sufficient to finance the rental of a small diamond drill. Mr. Charbonneau, an experienced driller and heavy machine operator, was engaged to do the work under the supervision of Mr. McDonough. The lack of availability of a drill at a reasonable cost made it necessary to rent a small bulldozer to obtain geological data on the area of interest. Ultimately, it was hoped that this method could help locate the source of the auriferous quartz boulders (with assays up to 14.0 ounce per ton Au) that were referenced in the body of the main report.

The author was not involved in this phase of the 1993 program due to employment opportunities in the Northwest Territories. The

author returned later to participate, with the help of Mr. Charbonneau, in the geophysical program conducted over these claims. (All reports and forms were prepared by the author, acting as an agent on behalf of Mr. McDonough's sole beneficiary, Mrs. Delcey McDonough of 24 Greenmeadow Court, St. Catharines, Ontario).

All financial matters were arranged between Mr. McDonough and Mr. Charbonneau. It was agreed that Mr. Charbonneau would be responsible for the rental, mobilization and operating expenses pertaining to the bulldozer. These expenses would be passed onto Mr. McDonough with the additional costs added:

- i) The rental of Mr. Charbonneau's vehicle at a rate of \$70 per day for mobilization to and from the work site and for transportation on the work site. (Mr. McDonough's vehicle was used for travel between his home and Timmins).
- ii) The cost of groceries and fuel for one week's work on the site.
- iii) A rate of \$200 per day compensation for Mr. Charbonneau, including the time on the site (with an average operating time per day of between 8 and 12 hours) and travel time to/from Timmins.

As stated previously, the expenses were met using OPAP grants awarded to Mr. McDonough and the author.

The program broke down as follows:

Sept 18, 1993 - Rental of John Deere 450G Tractor

Sept 19, 1993 - Mobilization into the site.

Sept 20 to Sept 26, 1993 - Mechanical stripping of the site,  
 mostly along north-south grid lines,  
 to approximate drill hole data.

Sept 27, 1993 - Demobilization to Timmins.

The Direct Costs are as follows:

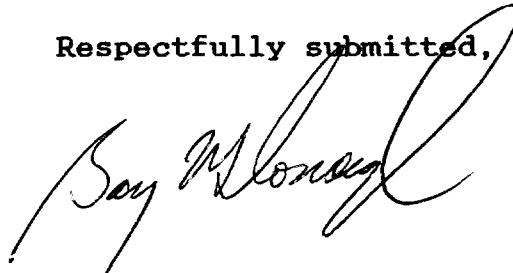
Tractor Rental	\$1200
Fuel	400
Groceries	100
Rental of Mr. Charbonneau's vehicle (@ \$70/day for 7 days)	490
Compensation for Mr. Charbonneau (2 days travel @ \$200/day with 7 days tractor operation @ \$200/day)	<u>1800</u>
Total	\$3990

Please note: The mobilization/demobilization cost of the tractor (\$500 charged by the lessor, Tracks and Wheels) has not been included. It is considered an indirect cost. A mistake was made on the original submission. The charge was, inadvertantly, included in both direct and indirect costs. A change in the Statement of Costs has been made to correct this.

## 2.0 CONCLUSION

The above clarification, along with the accompanying map, should address the deficiencies found in the original report.

Respectfully submitted,



Barry McDonough

**APPENDIX A**  
**CLAIM NUMBERS**

CLAIM NUMBERS - HOTSTONE WEST PROPERTY

P. 1129270  
P. 1129271  
P. 1129272  
P. 1129273  
P. 1129274  
P. 1129275

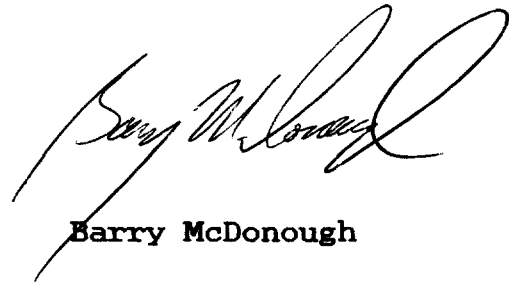
**APPENDIX A**  
**QUALIFICATIONS OF AUTHOR**

CERTIFICATE OF QUALIFICATION

I, Barry McDonough reside at 24 Greenmeadow Court, in the city of St. Catharines, Ontario, L2N 6Y8.

I have been practising my profession for eight years and am a graduate of McMaster University B.Sc (1986) in Geology.

The author does not own any interest in the claims covered in this report. The report is based on work personally performed or directly supervised by myself or my father, K. J. McDonough, now deceased. Mr. McDonough's sole beneficiary, Delcey McDonough, owns 100% of all claims covered in this report.

A handwritten signature in black ink, appearing to read 'Barry McDonough', is written over a printed name. The signature is fluid and cursive, with a large loop at the end.

Barry McDonough



APPENDIX **B**  
CLAIM NUMBERS

CLAIM NUMBERS-HOTSTONE WEST PROPERTY

P.1129270

P.1129271

P.1129272

P.1129273

P.1129274

P.1129275

**APPENDIX C**  
**PREVIOUS WORK**

Greenlaw Twp.

TYPE OF WORK

Numbers below represent the year in which the work was done; e.g., 68 for 1968.

EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	
	Hotstone Minerals Ltd. T-2100							56 (Prospectus)										
	T. Clement Property T-2097							57										
	Anaconda Co. Can. Ltd. T-2093	59											59					
	Anaconda Co. Can. Ltd. T-2045	59			60								59					
	Canadian Nickel Co. Ltd. T-2096			67														
	Wm. Allen Property T-2092											71	71					



Greenlaw Top

**TYPE OF WORK**

Numbers below represent the year in which the work was done; e.g., 68 for 1968.

EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	
	George Expl AB T-1997				77 77	77												
					80 80													
					81 81													
			85		85													
	Hollinger Arques Ltd. T-2484				82													
	Collingwood Energy Inc. T-2607	83 84		83	84 84	84 84						83	83 (VLF)					
	Dejour Mines T-2762	83 83										83	83					
	Highland Creek Resources T-2493 (aka. Quintera)	83	82	83	84 85-84	82						83						
				84	86*				84-84	85					84			
				87					85	85								
										(VLF)								

\*overburden (RC) drilling

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**TYPE OF WORK**

Numbers below represent the year in which the work was done; e.g., 68 for 1968.

EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	
	<i>Kidd Creek Mine Ltd.</i>	<i>82-</i>										<i>82</i>	<i>82</i>					
	<i>T-2512</i>	<i>83</i>										<i>83-</i>	<i>83-</i>	<i>EM + VLF</i>				
												<i>84</i>	<i>84</i>					
	<i>Noranda Expln</i>			<i>83</i>	<i>83.</i>							<i>84</i>	<i>84</i>					
	<i>T-2823</i>												<i>(VLF)</i>					
	<i>Kirkland Rse - Noranda Expln</i>			<i>85</i>								<i>83-</i>	<i>83-</i>					
	<i>T-2853.</i>											<i>84</i>	<i>84</i>					
													<i>(VLF)</i>					
	<i>J. Larche Property</i>								<i>84</i>	<i>84</i>	<i>(EM+VLF)</i>							
	<i>T-2876</i>																	
	<i>Noranda Expln.</i>	<i>83</i>										<i>83</i>	<i>83</i>					
	<i>T-2782</i>												<i>(HLEM)</i>					
	<i>Noranda Expln</i>			<i>85</i>								<i>84</i>	<i>84</i>					
	<i>T-2854.</i>												<i>(VLF+HLEM)</i>					

*HLEM = horizontal loop Em.*

*Greenlaw Trust*

**TYPE OF WORK**

Numbers below represent the year in which the work was done; e.g., 68 for 1968.

EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE	COMPANY/AUTHOR (file number)	TYPE OF WORK															
		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY
	<i>Regal Petroleum Ltd.</i>	84				84											
	<i>T-2878</i>																
	<i>Folkstone Resources Ltd.</i>	85	85			85											
	<i>T-2656</i>													84-85			
	<i>Grayhawk Resources.</i>	85	85														
	<i>T-3041</i>																
	<i>Patric/Tremblay Property</i>	89	89			89											
	<i>T-3318</i>																
	<i>M. Tremblay Property</i>																
	<i>T-3312</i>																
	<i>K. McDonough prop.</i>	90-	90			90											
	<i>T-3415</i>	91	91			91											
		92															





**APPENDIX D**  
**SAMPLE DESCRIPTIONS**

## SAMPLE DESCRIPTIONS

- HS-93-1 - White quartz vein in chlorite altered sheared volcanic flow. Abundant sericite along the vein-host contact (5% abundance). No visible sulfides.
- HS-93-2 - Bull white quartz vein bearing 140° in chlorite schist. Sericite approximately 2% with no visible sulfides and 5% chlorite. Rafts of altered country rock in vein. Veining cross cuts local structures.
- HS-93-3 - Same vein as HS-93-2 but further to the southwest (closer to contact). Host is more chlorite altered (approximately 10% abundance), with vein more sericite altered. No visible sulfides.
- HS-93-4 - Highly sheared chlorite-sericite schist with 1% pyrite and minor (1-2%) concordant quartz veining.
- HS-93-5 - Quartz vein within a chlorite-sericite schist with no visible sulfides and approximately 5% sericite alteration.
- HS-93-6 - Sheared sericite altered ultramafic volcanic with 1-2% pyrite and possible arsenopyrite (trace-0.5%). Abundant sericite makes rock look felsic. Possibly altered felsic intrusive(?).
- HS-93-7 - Quartz vein within sericite schist with no visible sulfides. Possible ultramafic flow.
- HS-93-8 - Silicified chlorite-sericite schist with minor quartz veining. No visible sulfides.
- HS-93-9 - Quartz vein in sericite schist. Vein has trace pyrite. Very poor sample due to difficulty in sampling vein.
- HS-93-10 - Sample of large erratic bull white quartz boulder uncovered by John Deere tractor while trenching. Vein contains 2-3% sericite altered vein material with no visible sulfides.
- HS-93-11 - As HS-93-10.
- HS-93-12 - As HS-93-10.

**APPENDIX E**  
**ASSAY CERTIFICATE**

CHAUNCEY ASSAY LABORATORIES LTD.

33 Chauncey Avenue, Toronto, Ontario M8Z 2Z2  
Tel: (416) 239-3527 FAX: (416) 239-4012

CERTIFICATE OF ANALYSIS

CERTIFICATE NO.: MI-3402 DATE: NOVEMBER 12, 1993

SUBMITTED BY: BARRY McDONOUGH

DATE RECEIVED: NOVEMBER 5, 1993 SAMPLES OF: ROCKS

SAMPLE NO:	Au PPB
HS-93-1	41
HS-93-2	23
HS-93-3	19
HS-93-4	25
HS-93-5	16
HS-93-6	48
HS-93-7	19
HS-93-8	25
HS-93-9	19
HS-93-10	25
HS-93-11	51
HS-93-12	29



J. van Engelen Mer

**APPENDIX F**  
**BIBLIOGRAPHY**

## BIBLIOGRAPHY

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- Winter, L.D.S.. Summary Geological Report. Greenlaw Twp. Swayze Area. Ontario For Kervin McDonough. 1991
- Hinzer, J.B.. Summary Report Of The Phase II 1984 Work Program For The International Rhodes Resources Ltd. and Noranda Exploration Company Limited Sylvanite Project. Greenlaw Township, Ontario. 1984

**APPENDIX G**  
**DESCRIPTION OF LITHOLOGIES**



## APPENDIX 1

### ROCK DESCRIPTIONS TO ACCOMPANY THE REPORT BY B. MCDONOUGH ON THE HOTSTONE WEST AND RIDEOUT LAKE EAST GRIDS.

The descriptions are correlated with the legend on the Hotstone West Grid Map Sheet and are based on the writer's observations during work on the properties June 10 and 11, 1992.

#### 1. Ultramafic to Mafic Volcanic Rocks.

Mafic volcanic rocks are the most common type in the area and consist of fine grained massive to schistose, dark green metavolcanics. They consist of four types as briefly described below.

##### 1a) Massive Mafic Volcanics

The massive mafic volcanics range from moderate to dark green in colour and appear to consist of varying proportions of plagioclase, amphibole and chlorite. Iron carbonate which often gives the rock a rusty weathering appearance is a common constituent.

##### 1b) Pillowed Mafic Volcanics

Some of the mafic volcanics show well developed pillows. The pillows are commonly of a bun-shape with some of them being stretched out into more mattress-like forms. Commonly they have amygdaloidal tops with chloritic rims. The pillows are usually a medium to dark grained mass of chlorite and amphibole with some relic feldspars being observed.

##### 1c) Sheared Mafic Volcanics

The sheared mafic volcanics show a well developed foliation which is accentuated by chloritization and commonly

sericitization. These rocks usually show variable amounts of carbonatization. The carbonatization is most strongly developed in the Hotstone West Grid along an east-west trending deformation zone. An east-northeast trending deformation zone through Rideout Lake is identified by the presence of the steeply dipping schistose mafic volcanics.

#### 1d) Porphyritic Mafic Volcanics

Occasional outcrops of porphyritic mafic volcanics were observed. They usually consist of euhedral, 0.5 cm, white plagioclase phenocrysts in a dark green fine grained massive chloritic matrix. Whether these are porphyritic phases of larger flows or discrete flows is not known.

Some rocks within the mapped areas may have originally been of an ultramafic composition. These rocks are usually very dark, massive, fine grained and show a typical brown weathering surface pattern.

## 2. Mafic to Intermediate Volcanic Rocks

### 2a) Massive mafic to intermediate flows.

These rocks are as described above under Ultramafic to Mafic Volcanics. Some units show a lighter colour and as a result of this may represent a more intermediate composition.

### 2b) Pillowed Mafic to Intermediate Volcanics

See above description under Ultramafic to Mafic Volcanics. Again the lighter colour of the flows was used to discriminate between mafic and intermediate volcanics.

2c) Sheared Mafic to Intermediate Volcanics

These rocks are very similar to those described under Ultramafic to Mafic Volcanics above however, their lighter colour was used to indicate that some may have an intermediate composition.

2d) Tuff (fine grained volcanic fragmental)

Tuffaceous rocks appear to be quite common especially in the area of Rideout Lake where they consist of dark green, fine grained, well bedded mafic tuffs with laminations in beds ranging from 2 to 3 mm to 10 to 15 cm. Some of these rocks have a lighter colour and are tentatively classified as being intermediate in composition. In hand specimen the fragments are less than 1 mm with occasional plagioclase grains being observed. Chlorite, sericite and carbonate appear to make up the majority of the matrix.

2e) Porphyritic Mafic to Intermediate Volcanic Rocks

These rocks are similar to those described under Ultramafic to Mafic Volcanic Rocks except for the lighter colour and their possible classification as intermediate volcanics.

2f) Chloritic Schist

In a number of areas, the volcanics are completely converted to a chlorite schist particularly in the deformation zone trending east-northeast in the area of Rideout Lake. The original composition of these rocks is unknown however, they were probably mafic to intermediate volcanics. Now the rock shows a well developed foliation with chlorite being the dominant mineral accompanied by sericite, carbonate and foliation-parallel quartz stringers.

### 3. Intermediate to Felsic Volcanics

The felsic volcanic rocks exhibit a wide range of textures as observed in outcrop. Also the rocks vary in composition from rhyolite to dacite to trachyte with rhyolite (field term) being the most dominant type. The various felsic volcanic rock types, andesite, dacite, rhyodacite, rhyolite and trachyte will be described under the descriptions of massive, fragmental and porphyritic.

#### 3a) Massive Felsic Volcanics

The massive fine grained white to buff-coloured felsic volcanic is the most common in the area. Many of these units have been carbonatized and show numerous calcite stringers and carbonate disseminations. In outcrop, the rocks vary from pinkish to whitish to often a greenish tint. Some of the units appear to be silicified and when so affected are extremely hard. Some of the massive rhyolites have been deformed and are now schistose rocks and consist of quartz, feldspar and sericite.

#### 3b) Fragmental Rocks

Felsic volcanic tuff and breccia were observed throughout the areas visited by the writer. The fine grained units are usually buff-coloured and poorly to well bedded with beds varying from 0.5 cm to 15 cm. A few areas showing coarser grained fragments were observed.

#### 3c) Porphyritic Rocks

Porphyritic felsic volcanics were also observed in the area. They are generally buff to greyish in colour, very fine grained and contain glassy to whitish quartz phenocrysts in a dense fine grained matrix. The phenocrysts are 2 to 3 mm in diameter. Generally feldspar phenocrysts were not observed. Because of shearing, some of the rocks also show sericite and chlorite along

foliation planes.

#### 4. Sedimentary Rocks

The sedimentary rocks consist of clastic and chemical sediments as described below. The clastic sediments are fine grained shales, argillites and slate and conglomerate and the chemical sediments are Algoman-type iron formation. The main area of sedimentary rocks observed by the writer was along Little Rideout Lake just south of Rideout Lake.

##### 4a) Clastic Sedimentary Rocks

On an island in Hotstone Lake in Greenlaw township highly folded and contorted clastic sediments were observed. The rocks are very fissile with a well developed cleavage and exhibit strong kink-folding. Quartz and carbonate are common within the rocks. Other small areas of similar rock types were observed often in association with what were interpreted to be fragmental volcanics. Along the shore of Little Rideout Lake on the Wakami River a conglomerate which is white in colour and very dense and appears to have a quartz-rich matrix containing rounded pebbles and cobbles was observed. Thin beds of a more pelitic type material were interbedded with the conglomerate as well as rocks that were very quartz-rich and are considered to be arkosic to feldspathic quartzite in composition.

##### 4b) Chemical Sediments (Iron Formation)

Iron formation was observed by the writer associated with volcanic rocks, particularly in the Rideout Lake area. Here typical banded, chert-magnetite, Algoman-type iron formation was observed. The iron formation is light to dark brown-black in colour, fine grained and appears to consist of quartz, calcite, iron carbonate, limonite and pyrite. Contacts with the enclosing rocks are gradational. Some schistose iron formation was

observed associated with the metasediments.

5. Felsic to Intermediate Intrusives

No felsic to intermediate intrusives were observed by the writer within the areas visited.

6. Intermediate to Mafic Intrusives

In the eastern part of Greenlaw township in the area of Rideout Lake the writer observed rocks which might be described as dioritic in composition. They were medium grained and showed an igneous type texture. It is not known whether these rocks represent coarse-grained phases of the flows or are intermediate intrusives. The rocks generally appear to consist of plagioclase and amphibole probably altered to chlorite. Disseminated magnetite and some cases pyrite was present.

7. Mafic to Ultramafic Intrusives

Whether these rocks are intrusives or whether they represent ultramafic flows is problematic. West of Hotstone Lake an area showing considerable serpentine and asbestos fibers is present. The rock is very fine grained and is all altered to serpentine along with the asbestos veinlets.

Signed,



L.D.S. Winter  
B.A.Sc., M.Sc., P.Geo. (B.C.)

**Report of Work Conducted After Recording Claim**

**Mining Act**

**AMENDED**  
Transaction Number  
**W9560.00009**

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.

**2.15918**

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



900

Recorded Holder(s) <b>Delcina McDonough</b>	Client No. <b>300627</b>
Address <b>24 Greenmeadow Court St. Catharines, Ont</b>	Telephone No. <b>(905) 937-5073</b>
Mining Division <b>Porcupine,</b>	Township/Area <b>Greenlaw</b>
Dates Work Performed From: <b>Sept 19/93</b>	To: <b>Sept 24/95</b>
	M or G Plan No. <b>3235</b>

**Work Performed (Check One Work Group Only)**

Work Group	Type
<input type="checkbox"/> Geotechnical Survey	
<input checked="" type="checkbox"/> Physical Work, Including Drilling	<b>Mechanical Shipping</b>
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

**RECORDED**  
**JAN 20 1995**  
Receipt \_\_\_\_\_

Total Assessment Work Claimed on the Attached Statement of Costs \$ **5688**

**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
<b>John Charbonneau</b>	<b>720 Shirley Street Timmins, Ontario</b>
<b>Kerrin McDonough (Supervisor)</b>	<b>24 Greenmeadow Court, St. Catharines, Ont</b>
<b>Barry McDonough</b>	<b>#208-4758 53<sup>rd</sup> St. Delta, BC V4K 2Z1</b>

(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 <b>May 4/95</b>	Recorded Holder or Agent (Signature) <i>[Signature]</i>
--	-------------------------	--

**Certification of Work Report**

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying <b>BARRY McDONOUGH, #208-4758 53<sup>rd</sup> St, Delta, BC</b>		
Telephone No. <b>(604) 940-9465</b>	Date <b>May 4/95</b>	Certified By (Signature) <i>[Signature]</i>

**For Office Use Only**

Total Value Cr. Recorded <b>\$51688</b>	Date Recorded	Mining Recorder <b>[Signature]</b>	<b>RECEIVED</b> 1st rec'd JAN. 20 1995 MAY 8 1995 @H:Kan (P. lat) ... We PORCUPINE MINING DIVISION
Deemed Approval Date <b>APR. 20, 1995</b>	Date Approved <b>MAY 8, 1995</b>		
Date Notice for Amendments Sent <b>MAR. 24, 1995</b>			



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**

AMENDED

Transaction No./N° de transaction

W9560.00009

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

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

**1. Direct Costs/Coûts directs**

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain	5 days @ \$150/day	750
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type Wages	1800	
	Tractor Rental	1200	
	Vehicle Rental	490	3490
Supplies Used Fournitures utilisées	Type Fuel	400	
	Groceries	100	
			500
Equipment Rental Location de matériel	Type		
<b>Total Direct Costs Total des coûts directs</b>			<b>4740</b>

**2. Indirect Costs/Coûts indirects**

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

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type Truck  (Timmins/St. Catharines)  2000km @ .30/km		
		600	
			600
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation	John Deere Tractor From/to Timmins	500	500
<b>Sub Total of Indirect Costs Total partiel des coûts indirects</b>			<b>1100</b>
<b>Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)</b>			<b>948</b>
<b>Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)</b>			<b>5688</b>
<b>Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)</b>			

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**

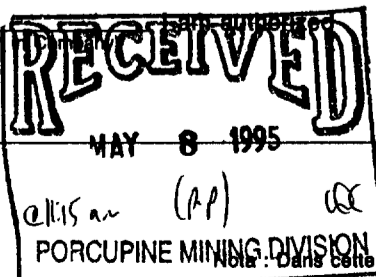
1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir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

Valeur totale du crédit d'évaluation	Évaluation 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 Agent  
(Recorded Holder, Agent, Position) I am authorized  
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 \_\_\_\_\_ Date May 4/95





# Report of Work Conducted After Recording Claim

## Mining Act

Transaction Number  
**W9560.00010**

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.

**2.15918**

- 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) <i>Delcina McDONOUGH</i>	Client No. <i>300627</i>
Address <i>24 Greenmeadow Court, St. Catharines, Ontario L2N 6Y8</i>	Telephone No. <i>(905) 937-5073</i>
Mining Division <i>Porcupine</i>	Township/Area <i>Greenlaw</i>
M or G Plan No. <i>3235</i>	
Dates Work Performed From: <i>October 13/93</i> To: <i>October 14/93</i>	

**Work Performed (Check One Work Group Only)**

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	<i>VLF-EM, Magnetometer (includes linecutting)</i>
<input type="checkbox"/> Physical Work, Including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

**RECEIVED**  
MAR 27 1995  
MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs \$ *1614*

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

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

Name	Address
<i>John Charbonneau</i>	<i>720 Shirley Street, Timmins, Ontario</i>
<i>Barry McDonough (Report author)</i>	<i>24 Greenmeadow Court, St. Catharines, Ontario L2N 6Y8</i>
<i>MIKE Wabano</i>	<i>Last known address 694 Bartleman Street, Timmins, Ontario</i>

(attach a schedule if necessary)

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

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date <i>January 17/95</i>	Recorded Holder or Agent (Signature) <i>Barry McDonough</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 <i>BARRY McDONOUGH, 24 Greenmeadow Court, St. Catharines, Ontario L2N 6Y8</i>		
Telephone No. <i>(905) 937-5073</i>	Date <i>January 17, 1995</i>	Certified By (Signature) <i>Barry McDonough</i>

**For Office Use Only**

Total Value Cr. Recorded <i>\$ 1614.</i>	Date Recorded <i>APR 20 1995</i>	Mining Recorder (undated) <i>T. Binkley</i>	<div style="border: 2px solid black; padding: 10px;"> <p style="font-size: 2em; font-weight: bold; margin: 0;">RECEIVED</p> <p style="margin: 0;">JAN 20 1995</p> <p style="margin: 0;"><i>1040 P.P. JH</i></p> <p style="margin: 0; font-weight: bold;">PORCUPINE MINING DIVISION</p> </div>
Deemed Approval Date <i>APR 20 1995</i>	Date Approved		
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

W9560.00010

2.15918

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

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

**1. Direct Costs/Coûts directs**

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type Magnetometer 3.75km x \$150/km	562	
	VLF-EM 3.75km x \$150/km	562	
	Linecutting 0.85km x \$150/km	128	1252
Supplies Used Fournitures utilisées	Type Camp supplies (propane, fuel etc)	26	
			26
Equipment Rental Location de matériel	Type Generator	67	
			67
<b>Total Direct Costs Total des coûts directs</b>			<b>1345</b>

**2. Indirect Costs/Coûts indirects**

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

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type Truck (personal)		
	420km @ 30/km	126	
	<b>RECEIVED</b>		
	MAR 27 1995		
	MINING LANDS BRANCH		126
Food and Lodging Nourriture et hébergement	Groceries, motel, meals in restaurant	143	143
Mobilization and Demobilization Mobilisation et démobilisation			
<b>Sub Total of Indirect Costs Total partiel des coûts indirects</b>			<b>269</b>
<b>Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excedant pas 20 % des coûts directs)</b>			<b>269</b>
<b>Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)</b>			<b>1614</b>
<b>Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)</b>			<b>1614</b>

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

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

**Filing Discounts**

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

Total Value of Assessment Credit	Total Assessment Claimed
	× 0.50 =

**Remises pour dépôt**

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

Valeur totale du crédit d'évaluation	× 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 Agent I am authorized  
(Recorded Holder, Agent, Position In Company)

to make this certification

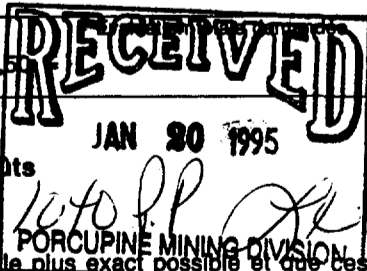
**Attestation de l'état des coûts**

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 \_\_\_\_\_ Date January 17/95





# Report of Work Conducted After Recording Claim

Mining Act

Transaction Number  
**W9560.00011**

*g*

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.

**2.15918**

- 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) <i>Delcina McDonough</i>	Client No. <i>300627</i>
Address <i>24 Greenmeadow Court, St. Catharines, Ontario</i>	Telephone No. <i>(905) 937-5073</i>
Mining Division <i>Porcupine</i>	Township/Area <i>Greenlaw</i>
	M or G Plan No. <i>3235</i>
Dates Work Performed From: <i>October 16, 1993</i>	To: <i>January 17, 1995</i>

**Work Performed (Check One Work Group Only)**

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	<i>Trench mapping, report preparation, sampling</i>
<input type="checkbox"/> Physical Work, including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input checked="" type="checkbox"/> Assays	<i>12 rock samples</i>
<input type="checkbox"/> Assignment from Reserve	

**RECEIVED**  
MAR 27 1995  
MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs \$ *1112.*

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

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

Name	Address
<i>Barry McDonough (Report Author)</i>	<i>24 Greenmeadow Court, St. Catharines, ON</i>

(attach a schedule if necessary)

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

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date <i>Jan 17/95</i>	Recorded Holder or Agent (Signature) <i>Barry McDonough</i>
--	--------------------------	--

**Certification of Work Report**

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying <i>BARRY McDONOUGH, 24 Greenmeadow Court, St. Catharines, Ontario</i>		
Telephone No. <i>(905) 937-5073</i>	Date <i>January 17, 1995</i>	Certified By (Signature) <i>Barry McDonough</i>

**For Office Use Only**

Total Value Cr. Recorded <i>\$ 1112.</i>	Date Recorded	Mining Recorder	Received Stamp
	Deemed Approval Date <i>Apr. 20, 1995</i>	Date Approved	<b>RECEIVED</b> JAN 20 1995 <i>1445 PP JK</i> PORCUPINE MINING DIVISION
	Date Notice for Amendments Sent		





2-15918

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

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

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	5 days @ 150/day	750
	Field Supervision Supervision sur le terrain		150
Contractor's and Consultant's Fee Droits de l'entrepreneur et de l'expert- conseil	Type		
Supplies Used Fournitures utilisées	Type Assays	177	
			177
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			927

2. Indirect Costs/Coûts indirects

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

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type Truck (personal)		
	1500kms @ 0.30/km	450	
			450
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			450
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			185
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)			1112
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
--------------------------------------	----------------------------

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 Agent 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 l'évaluation sur les terrains indiqués dans le formulaire 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: [Signature] Date: January 17, 1995



**Report of Work Conducted  
After Recording Claim**

Transaction Number  
**W 9560.00011**

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, P8E 6A5, telephone (705) 670-7284.

- 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.

**AMENDED**

Recorded Holder(s) <i>Dolcina McDonough</i>	Client No. <i>300627</i>
Address <i>24 Greenmeadow Court, St. Catharines, Ontario</i>	Telephone No. <i>(905) 937-5073</i>
Mining Division <i>Porcupine</i>	Township/Area <i>Greenlaw</i>
	M or G Plan No. <i>3235</i>
Date Work Performed From: <i>October 16, 1993</i>	To: <i>January 17, 1995</i>

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	<i>Trench mapping, report preparation, sampling</i>
<input type="checkbox"/> Physical Work, including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input checked="" type="checkbox"/> Assays	<i>12 rock samples</i>
<input type="checkbox"/> Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ *1112*

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

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

Name	Address
<i>Barry McDonough (Report Author)</i>	<i>24 Greenmeadow Court, St. Catharines, Ontario</i>

(attach a schedule if necessary)

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

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date <i>January 17, 1995</i>	Recorded Holder or Agent (Signature) <i>[Signature]</i>
--	---------------------------------	--

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying <i>Barry McDonough, 24 Greenmeadow Court, St. Catharines, Ontario</i>		
Telephone No. <i>(905) 937-5073</i>	Date <i>January 17, 1995</i>	Certified By (Signature) <i>[Signature]</i>

For Office Use Only

Total Value Cr. Recorded <i>\$ 1112.</i>	Date Recorded <i>Jan 20/1995</i>	Mining Recorder (Signature) <i>[Signature]</i>	
	Deemed Approval Date <i>Apr 20/1995</i>	Date Approved <i>[Signature]</i>	
	Date Notice for Amendments Sent		

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

Geoscience Approvals Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

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

March 28, 1995

Our File: 2.15918  
Transaction #W9560.00010  
#W9560.00011

Mining Recorder  
Ministry of Northern Development & Mines  
60 Wilson Avenue  
1st Floor  
Timmins, Ontario  
P4N 2S7

Dear Mr. White:

**SUBJECT: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS  
1129272 ET AL IN GREENLAW TOWNSHIP**

Assessment work credits have been approved as outlined on the original report of work forms for this submission. The credits have been approved under Section 12 and 14, Geology and Geophysics (MAG,VLF), Mining Act Regulations.

The approval date is March 27, 1995. Please indicate this approval on the claim record sheets.

If you have any questions regarding this correspondence, please contact Bruce Gates at (705) 670-5856.


ORIGINAL SIGNED BY:



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

 BIG/jl  
Enclosure:

cc: Resident Geologist  
Timmins, Ontario

 Assessment Files Library  
Sudbury, Ontario



REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

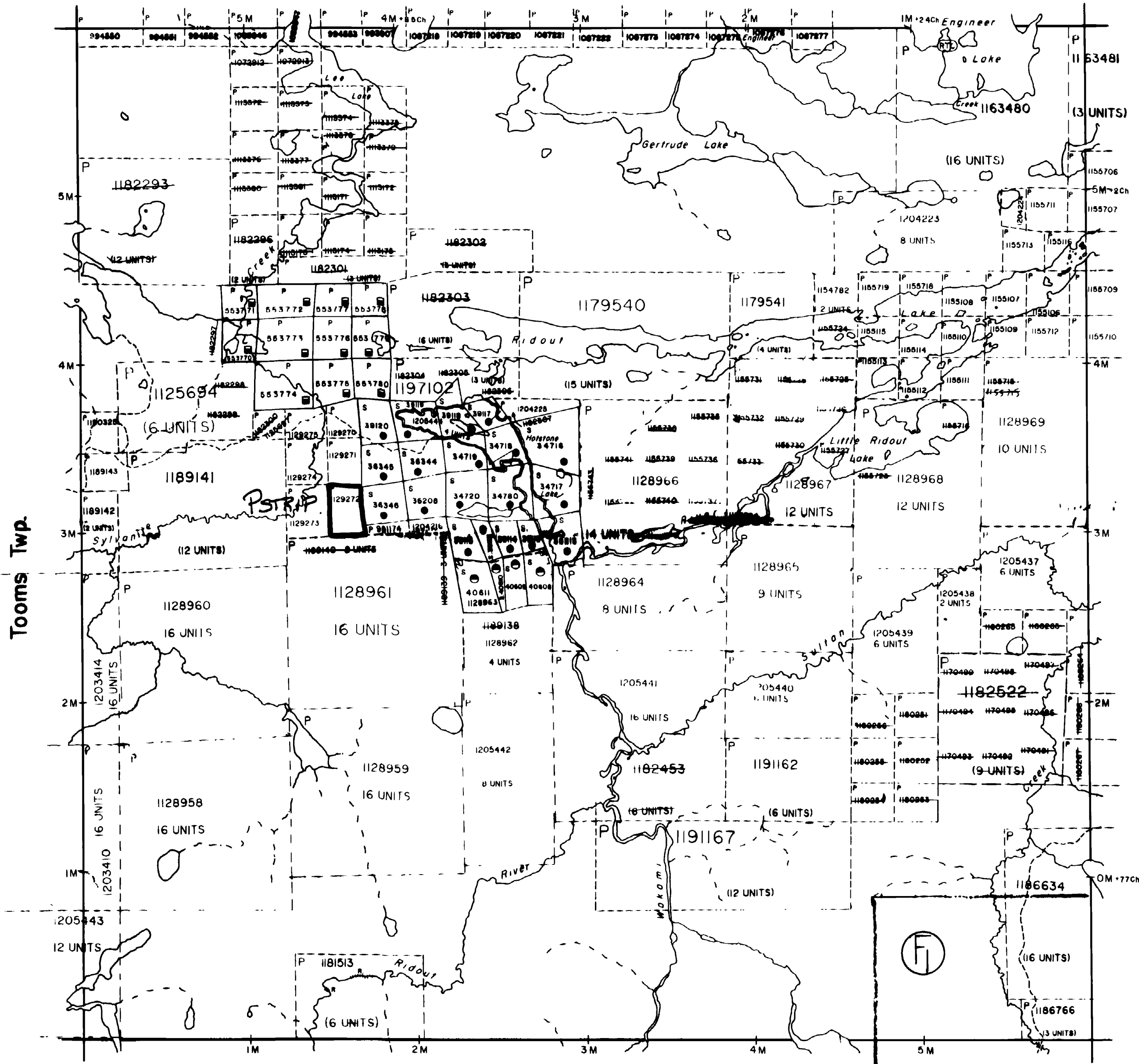
- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M. + S. - MINING AND SURFACE RIGHTS

Description Order No Date Disposition File

(RTG)-RFMOTF TOURIST CAMP

(1) THIS TWP IS SUBJECT TO FOREST ACTIVITY IN 1995/96 FURTHER INFORMATION AVAILABLE ON FILE

Denyes Twp.



LEGEND

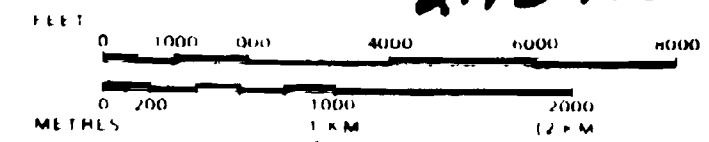
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- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIP BASE LINES, ETC.
- LOTS MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS, ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING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

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◼
" MINING RIGHTS ONLY	◑
LICENCE OF OCCUPATION	▼
ORDER IN COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊖
SAND & GRAVEL	⊕

NOTES: 1. ALL RIGHTS RESERVED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R.S.O. 1970, CHAP. 380, SEC. 63 SUBSEC. 1

SCALE 1 INCH = 40 CHAINS



TOWNSHIP GREENLAW

M.N.R. ADMINISTRATIVE DISTRICT CHAPLEAU

MINING DIVISION PORCUPINE

LAND TITLES / REGISTRY DIVISION

SUBSURY

RECEIVED MAY 16 1995 MINING LANDS BRANCH

Ontario Ministry of Natural Resources and Mines

Ontario Ministry of Northern Development and Mines

Date: MARCH, 1985

ACTIVATED OCTOBER 21 1992 BY DC

CHECKED BY BB

Number

G-3235



REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

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

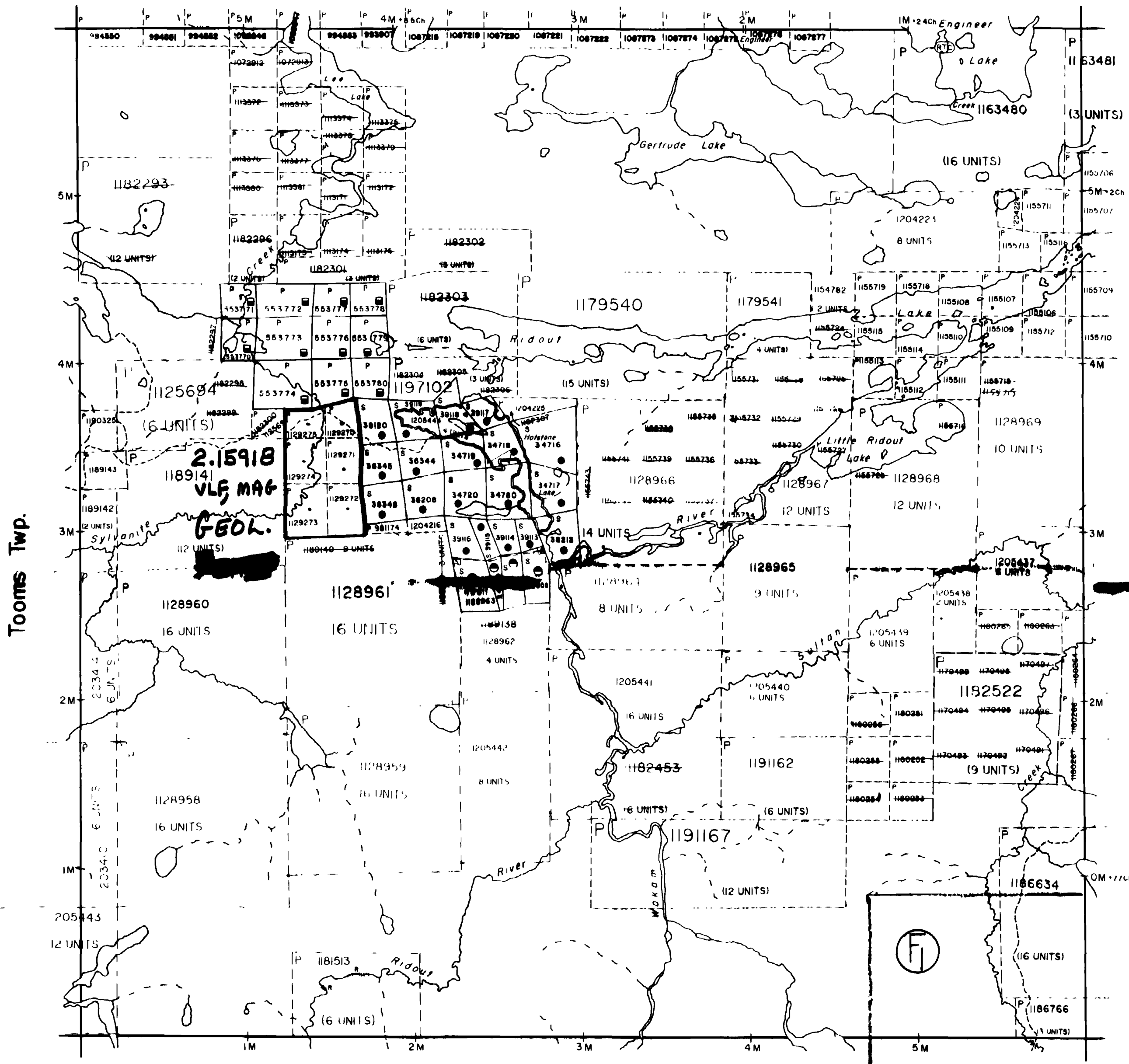
Description	Order No	Date	Disposition	File
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RTD-REMOTF TOURIST CAMP

THIS TWP IS SUBJECT TO FOREST ACTIVITY IN 1935/36  
FURTHER INFORMATION AVAILABLE ON FILE

2.15918  
POLYGRAPHIC MINING SYSTEM

Denyes Twp.

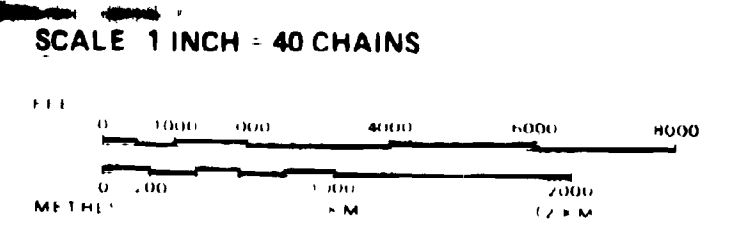


LEGEND

- HIGHWAY AND ROUTE NO.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS BASE LINES ETC
- LOTS, MINING CLAIMS, PARCELS ETC
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STRIAM
- FLOODING OR FLOODING RIGHT
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORT LINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

- | TYPE OF DOCUMENT               | SYMBOL |
|--------------------------------|--------|
| PATENT SURFACE & MINING RIGHTS | ●      |
| " SURFACE RIGHTS ONLY          | ○      |
| " MINING RIGHTS ONLY           | ○      |
| LEASE, SURFACE & MINING RIGHTS | ■      |
| " SURFACE RIGHTS ONLY          | ■      |
| " MINING RIGHTS ONLY           | ■      |
| LICENCE OF OCCUPATION          | ▼      |
| ORDER IN COUNCIL               | OC     |
| RESERVATION                    | ○      |
| CANCELLED                      | ○      |
| SAND & GRAVEL                  | ○      |
- NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT OF 1910 (CAP 180) SECTION 11(1)



RECEIVED  
MAR 27 1995  
MINING LANDS BRANCH

TOWNSHIP  
**GREENLAW**  
M.N.R ADMINISTRATIVE DISTRICT  
**CHAPLEAU**  
MINING DIVISION  
**2.15918**  
**PORCUPINE**  
LAND TITLES / REGISTRY DIVISION  
**SUDBURY**

Ministry of Natural Resources Ontario  
Ministry of Northern Development and Mines

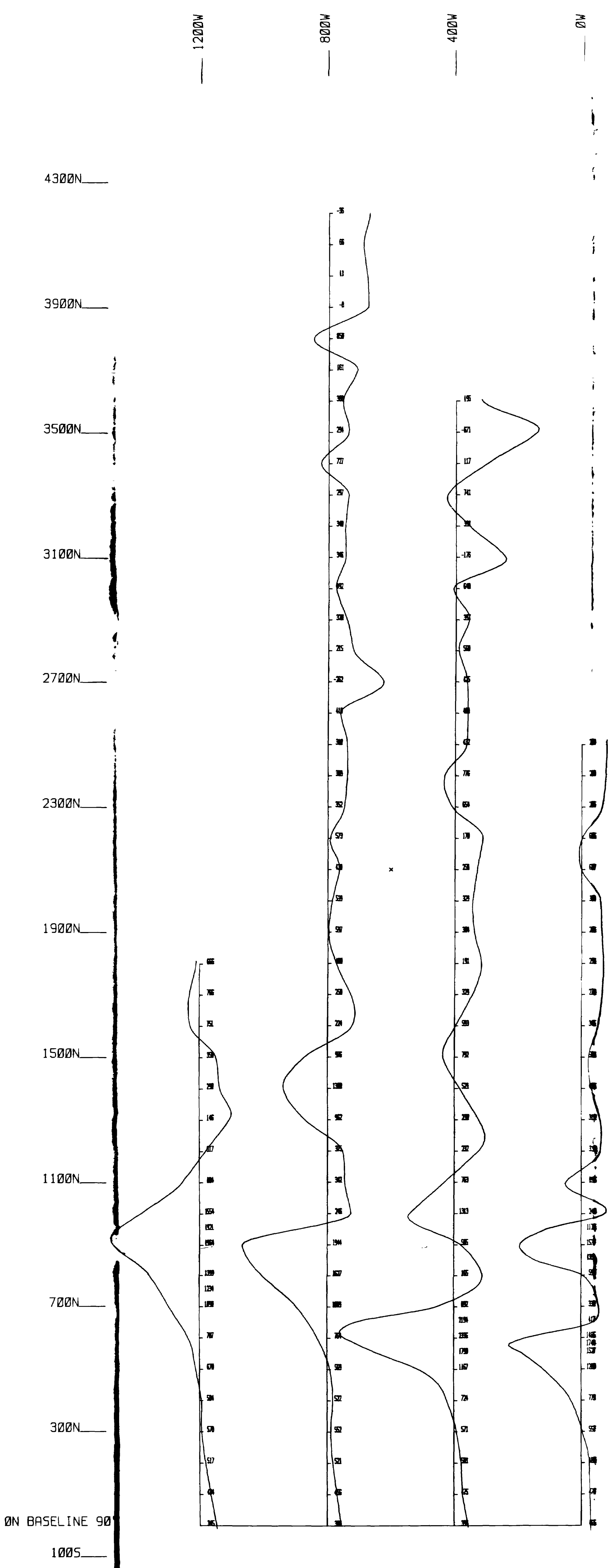
Date: MARCH, 1985  
Number: **G-3235**  
ACTIVATED OCTOBER 20, 1992 BY DC  
CHECKED BY RB

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



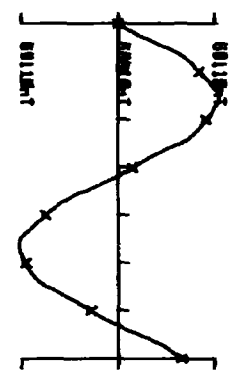


10/21/93 10:00 AM



DUPLICATE COPY 2-15918

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MAY 16 1995  
MINING LANDS BRANCH



Instrument : FLUXGATE  
Field : TOTAL  
Datum : 58000.0 nT  
Contour Interval :  
Profile Scale : 1000 nT / Inch (logarithmic)  
Conductor Axis :  
200ft 100ft 0ft 200ft 400ft

**HOTSTONE**  
**MAGNETOMETER SURVEY**  
PROJECT: MCDONOUGH PROJECT # :  
BASELINE AZIMUTH : 90 Deg.  
SCALE = 1 : 2400 / 1" = 200ft+ DATE : 10/21/93  
SURVEY BY : BM Quad :  
FILE: MHOT

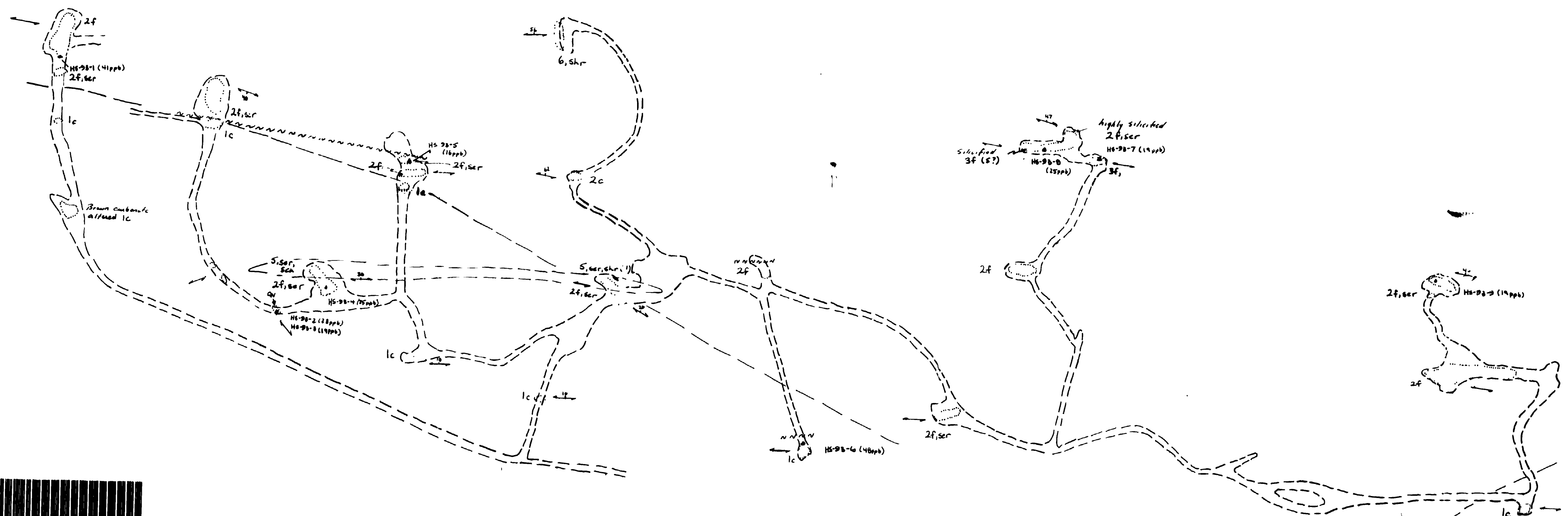
14W 13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 3W 2W 1W 0

LEGEND

1. ULTRAMAFIC TO MAFIC VOLCANICS
  - 1a. Massive
  - 1b. Pillowed
  - 1c. Sheared
  - 1d. Porphyritic
2. MAFIC TO INTERMEDIATE VOLCANICS
  - 2a. Massive
  - 2b. Pillowed
  - 2c. Sheared
  - 2d. Tuff
  - 2e. Porphyritic
  - 2f. Chlorite Schist
3. INTERMEDIATE TO FELSIC VOLCANICS
  - 3a. Andesite
  - 3b. Dacite
  - 3c. Rhyolite
  - 3d. Rhyolite
  - 3e. Trachyte
  - 3f. Sericite Schist
4. SEDIMENTARY ROCKS
  - 4a. Clastic
  - 4b. Chemical (Iron Formation)
5. FELSIC TO INTERMEDIATE INTRUSIVE
  - 5a. Quartz Feldspar Porphyry
6. INTERMEDIATE TO MAFIC INTRUSIVE
7. MAFIC TO ULTRAMAFIC INTRUSIVE

ABBREVIATIONS  
 biot - biotite  
 brca - breccia  
 carb - carbonate  
 chl - chlorite  
 ser - sericite  
 congl - conglomerate  
 shr - sheared

SYMBOLS  
 ○ - outcrop  
 ▽ - swamp  
 = = = - road  
 - - - - geological contact  
 \* - sample location  
 ↗ - strike and dip  
 - - - - boundary of swamp  
 → - stream and direction of flow

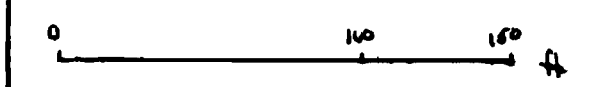


MAP 4

HOTSTONE WEST TRENCHING  
 With Geology, Sample Locations and Assays

Scale 1:750

January 1995



240

14W 13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 3W 2W 1W 0

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2-15-918

CLAIM P. 1129272

← ~ 50 feet to Claim Line

↑ 100 feet to Post #1 P. 1129272

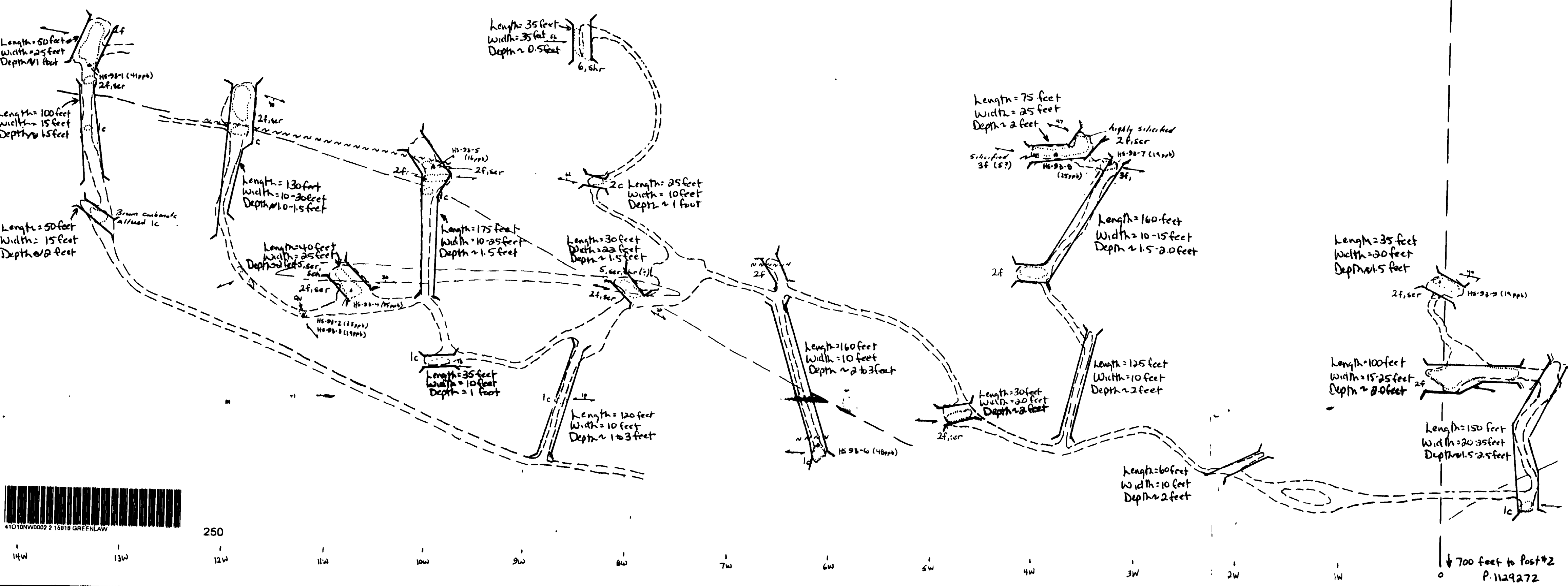
← Claim Line

1. ULTRAMAFIC TO MAFIC VOLCANICS
  - 1a. Massive
  - 1b. Pillowed
  - 1c. Sheared
  - 1d. Porphyritic
2. MAFIC TO INTERMEDIATE VOLCANICS
  - 2a. Massive
  - 2b. Pillowed
  - 2c. Sheared
  - 2d. Tuff
  - 2e. Porphyritic
  - 2f. Chlorite Schist
3. INTERMEDIATE TO FELSIC VOLCANIC
  - 3a. Andesite
  - 3b. Dacite
  - 3c. Rhyodacite
  - 3d. Rhyolite
  - 3e. Trachyte
  - 3f. Sericite Schist

4. SEDIMENTARY ROCKS
  - 4a. CLASTIC
  - 4b. Chemical (Iron Formation)
5. FELSIC TO INTERMEDIATE INTRUSIVE
  - 5a. Quartz Feldspar Porphyry
6. INTERMEDIATE TO MAFIC INTRUSIVE
7. MAFIC TO ULTRAMAFIC INTRUSIVE

- SYMBOLS
- outcrop
  - swamp
  - == road
  - geological contact
  - ▲ - sample location
  - ↔ - strike and dip
  - boundary of swamp
  - - stream and direction of flow

- SYMBOLS
- but - biotite
  - brn - breccia
  - cmb - carbonate
  - cgf - conglomerate
  - qu - quartz vein
  - chl - chlorite
  - ser - sericite
  - shr - sheared



250

14W 13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 3W 2W 1W

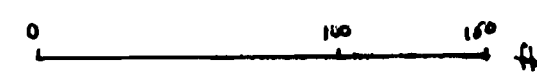
↓ 700 feet to Post #2 P. 1129272

MAP 4  
HOTSTONE WEST TRENCHING

With Geology, Sample Locations and Ass.

Scale 1:750

January 1995



**LEGEND**

**1. ULTRAMAFIC TO MAFIC VOLCANICS**

- 1a. Massive
- 1b. Pillowed
- 1c. Sheared
- 1d. Porphyritic

**2. MAFIC TO INTERMEDIATE VOLCANICS**

- 2a. Massive
- 2b. Pillowed
- 2c. Sheared
- 2d. Tuff
- 2e. Porphyritic
- 2f. Chlorite-Schist

**3. INTERMEDIATE TO FELSIC VOLCANICS**

- 3a. Andesite
- 3b. Dacite
- 3c. Rhyodacite
- 3d. Rhyolite
- 3e. Trachyte
- (3f. Sarcinite Schist)

**4. SEDIMENTARY ROCKS**

- 4a. Clastic
- 4b. Chemical (Iron Formation)

**5. FELSIC TO INTERMEDIATE INTRUSIVE**

- 5a. Quartz Feldspar Porphyry

**6. INTERMEDIATE TO MAFIC INTRUSIVE**

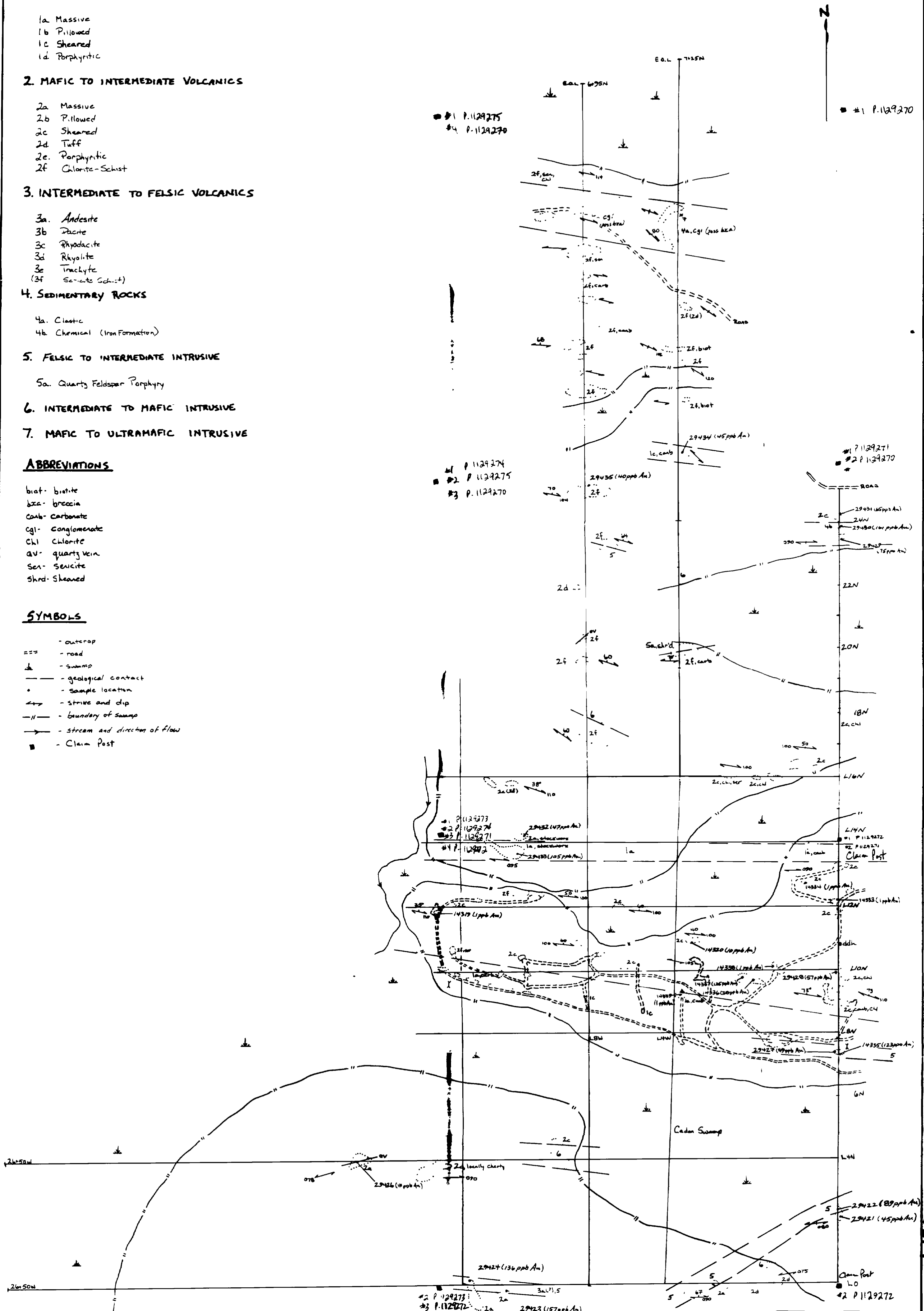
**7. MAFIC TO ULTRAMAFIC INTRUSIVE**

**ABBREVIATIONS**

- biot - biotite
- bxa - breccia
- carb - carbonate
- cgl - conglomerate
- chl - chlorite
- qv - quartz vein
- ser - sericite
- shrd - sheared

**SYMBOLS**

- outcrop
- == - road
- ⏚ - swamp
- - geological contact
- - sample location
- ↔ - strike and dip
- ||- boundary of swamp
- - stream and direction of flow
- - Claim Post



Hotstone West Grid  
 Scale 1:2400  
 January 1995

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 2.15918  
 DUPLICATE  
 COPY





2.15.918

RECEIVED

MAY 11 1995

MINING LANDS BRANCH

MAGNETIC DECLINATION 9° WEST

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

DISPOSITION OF CROWN LANDS

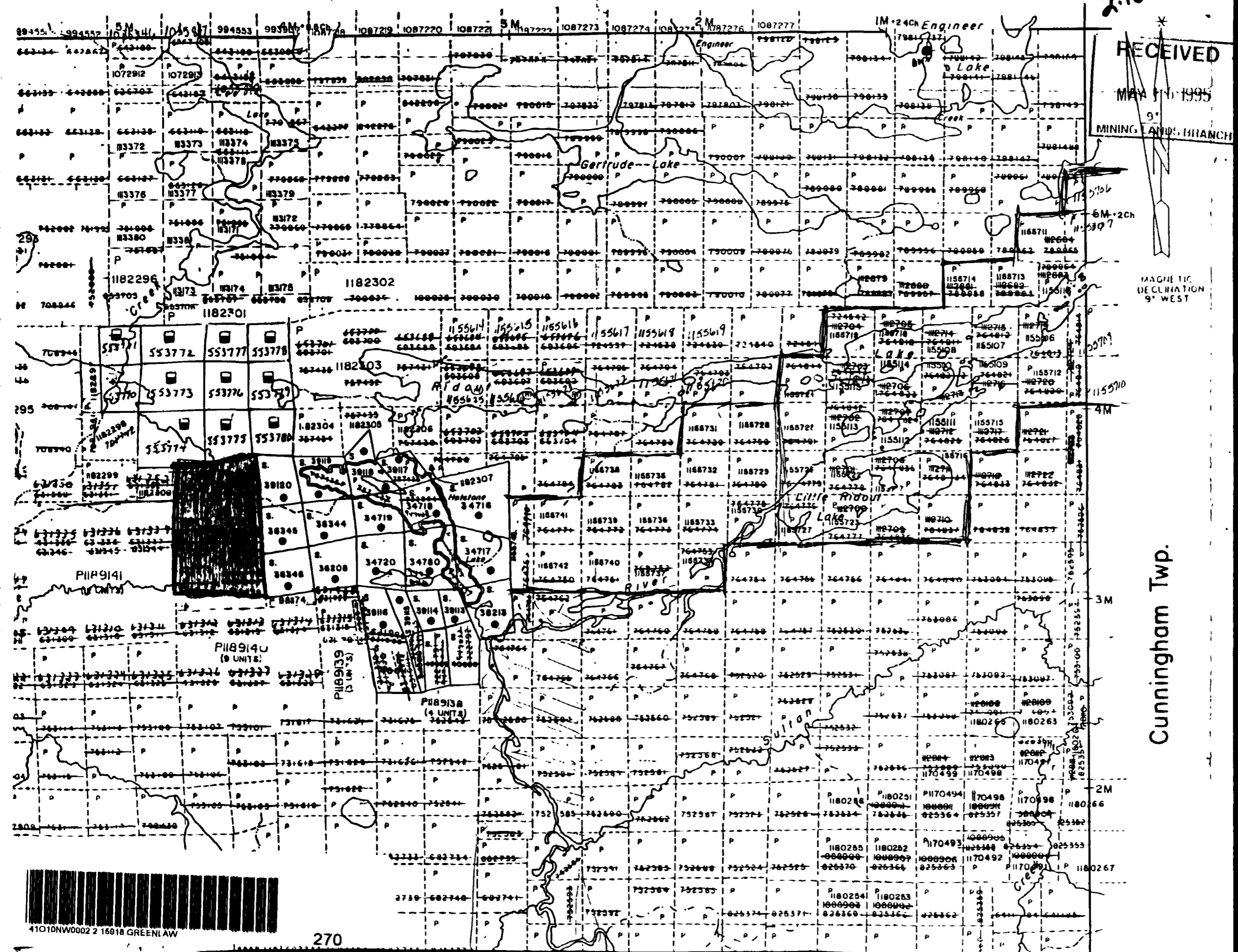
TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	□
" MINING RIGHTS ONLY	◑
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	Ⓜ
CANCELLED	Ⓞ
SAND & GRAVEL	Ⓢ

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R.S.O. 1970 CHAP 380 SEC 63 SUBSEC 1

SCALE 1 INCH = 40 CHAINS



MAP 1  
TOWNSHIP  
GREENLAW



4101DNW0002 2 15018 GREENLAW