

REPORT ON TRENCHING GARNET LAKE PROPERTY GARNET TOWNSHIP ONTARIO

for

WESTERN PACIFIC ENERGY CORPORATION

P.J. WHITTAKER, Msc., Ph.D OCTOBER 6, 1988

RECEIVED

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MINING LANDS SECTION

INTRODUCTION

Trenching by power backhoe was done to expose additional oxide facies iron formation. This was done at a roadside outcrop area, shown by previous grab samples to have gold values up to 0.144 oz/t (Winter, 1986).

PROPERTY, LOCATION AND ACCESS

CLAIM GROUP

The property consists of 141 unpatented contiguous mining claims in good standing as shown in Figure 2 and as listed below after Plan M.829 Garnet Township as issued by the Surveys and Mapping Branch of the Ontario Ministry of Natural Resources. The claim numbers are as follows:

CLAIM NUM	1BEI	<u>RS</u>		<u>NO</u>	. OF	CLAIMS
P.797501	to	797575	inclusive		'	75
P.798029	to	798048	inclusive		•	20
P.798055	to	798072	inclusive		,	18
P.798080	to	798099	inclusive			20
P.839741	to	839748	inclusive			8
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				Total	1	41

LOCATION AND ACCESS

Garnet Township is located in the District of Sudbury, Porcupine Mining Division of northeastern Ontario at 47° -43' N latitude, 82° -30" W longitude (Figure 1) approximately 75 miles southwest of Timmins.

A good gravel road crosses the property and leads south 9 miles then west a distance of 18 miles to Sultan on the transcontinental line of the Canadian Pacific Railway. Highways 667 and 129 connect Sultan to Chapleau, 40 miles to the northwest (Winter, 1986). Trenching was done in the hachured claim (Figure 2).

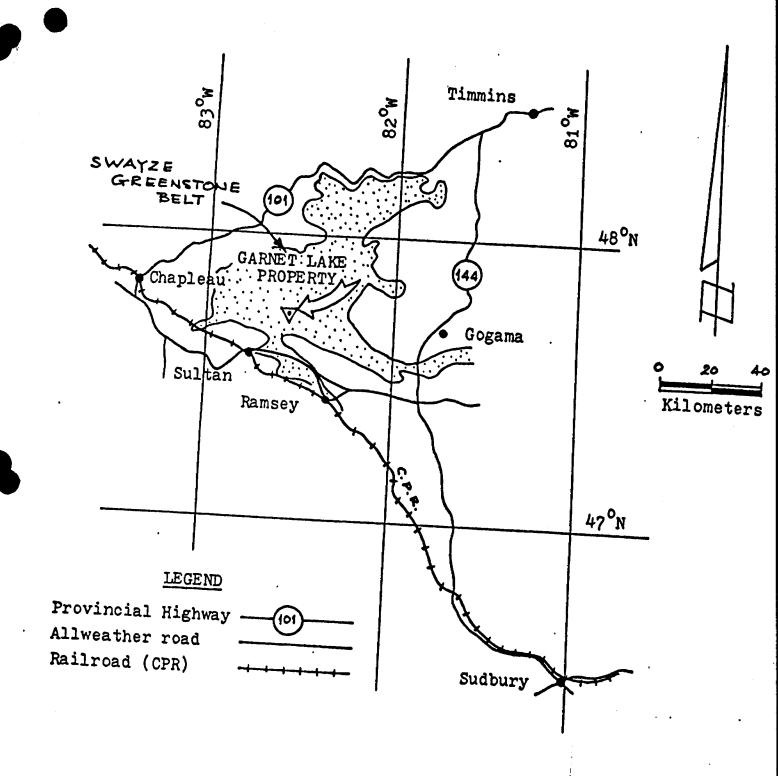
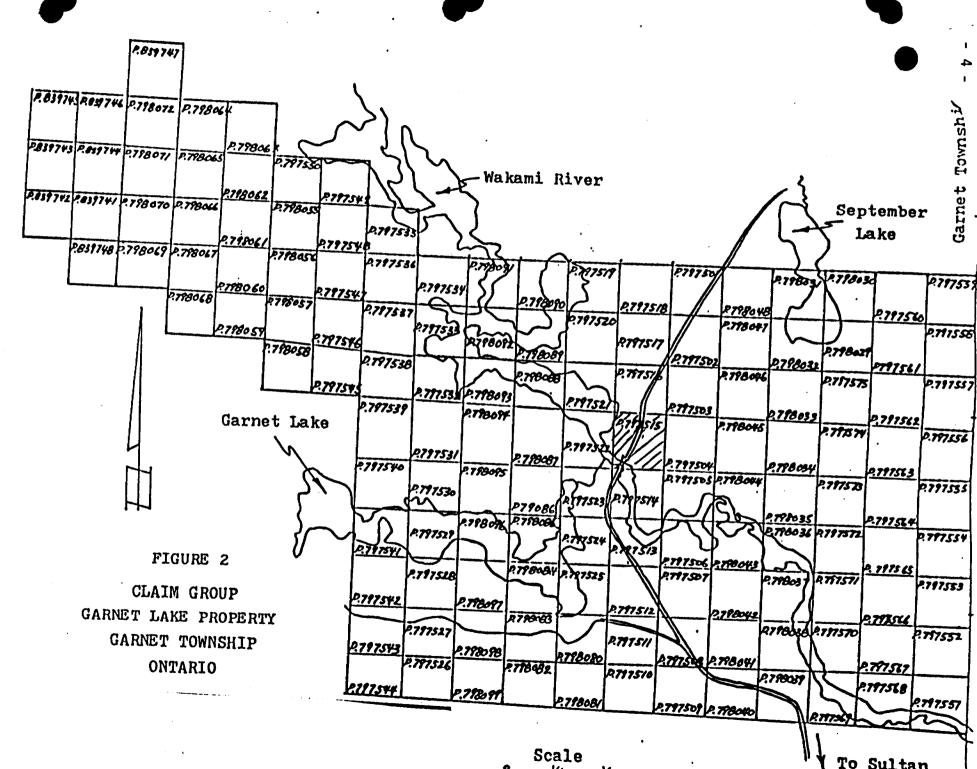


FIGURE 1 GENERAL LOCATION MAP GARNET LAKE PROPERTY DISTRICT OF SUDBURY

ONTARIO

(after Winter, 1986)



To Sultan

PREVIOUS WORK

The only recorded assessment work is that reported by INCO Limited in the mid-1960's when 5 drill holes, numbers 31911, 31912, 31913, 31914 and 31915 were drilled along the northwest trending zone of chemical metasediments in the search for base metals (Assessment Files, Timmins, Ontario).

During 1985-1986, Noramco Explorations Inc. cut 56.22 line miles at 500 ft spacing with pickets at 100ft intervals. Five baselines and tielines were also cut. Geophysical surveys include 18.5 line-miles of ground magnetometer, 19.2 line-miles of VLF-EM and 14.7 line-miles of Self Potential surveys were done over selected areas. The area covered by cut grid-lines was mapped and all lithologies were sampled (Masson, 1986).

Diamond drilling was done between December 1, 1985 and February 14, 1986. Fourteen holes were drilled for a total of 5,630 ft of BQ core (Winter, 1986 B).

GEOLOGY

REGIONAL GEOLOGY

The Garnet property occurs in the south-central section of the Swayze greenstone belt (Figure 1). In Garnet, Cunningham and Benton Townships the belt is made up of a sequence of metamorphosed (greenschist facies) early Precambrian (Archean) volcanic rocks. The sequence is composed dominantly of basaltic flows and tuffs, with subordinate units of felsic porphritic tuffs, clastic metasediments and by chemical metasediments represented by graphitic cherts and various facies of iron formation. The volcanic sequence has been intruded by gabbro-peridotite bodies, felsic porphyritic intrusions and diabase and lamprophyre dykes. Flanking the sequence to the south are granitoid intrusions and migmatites. Winter (1985) has outlined a more detailed account of the regional geology in an earlier report for Western Pacific Energy Corp.

PROPERTY GEOLOGY

The Garnet Lake property in east-central Garnet township is underlain by a west-northwest trending and steeply dipping sequence of metavolcanics that range from massive to porphyritic flows to tuffs and agglomerates. These metavolcanics are generally green to dark green in colour, range from fine to medium grained and when prophyritic contain phenocrysts of white plagioclase or quartz. Pillowed varieties are present in both the east-central and southwestern parts of the claim group. The composition appears to range from intermediate to mafic.

Ferruginous chert to magnetite iron formation with associated graphite occurs in the northwestern part of the property and trends east-southeasterly across the claims.

In the eastern part of the claim group, possibly three units, each approximately 1000 feet wide, of porphyritic felsic metavolcanics trend approximately east-west and dip steeply south. One unit is a feldspar porphyry and two units are quartz porphyries.

In the central and eastern part of the property sill-like to somewhat discordant bodies of mafic composition have intruded the metavolcanics and associated metasediments. These intrusives are gabbroic to dioritic in composition, massive and with a diabasic texture. A small fold-nose of this material also occurs in the southwestern corner of the property.

Outcrops of agglomerate or volcaniclastic conglomerate and associated finer grained units trending at 110° occur in the southwestern corner of the property. These units show considerable carbonate alteration.

In summary, the property consists of a sequence of west-northwest trending metavolcanics of intermediate to mafic composition containing intercalated chert, iron formation and associated sediments across the central region of the claims. Three bodies of porphyritic felsic metavolcanics, possibly sub-volcanic intrusives, occur in the eastern part of the claims and sill-like bodies of gabbro and diorite have intruded the sequence, in the central and eastern part of the claims.

TRENCHED AREA GEOLOGY

Outcrop exposure expanded by trenching is underlain by mafic metavolcanics and oxide facies iron formation. Mafic metavolcanics are intruded by narrow (30cm) felsic dikes and the exposed iron formation is cut by a mafic dike. Metavolcanics and iron formation strike east to east southeast and have vertical to steep southerly dips. These rocks have been metamorphosed to middle greenschist facies, reflected by extensive chloritization of the metavolcanics. Secondary mineralization occurs as 2 5 percent disseminated pyrite and trace chalcopyrite along the metavolcanic - iron formation fault contact. Minor malachite coats part of the iron formation near the contact. Late, near vertical quartz veins. striking north, have minor (1 to 2 percent) secondary disseminated pyrite at their margins. Lithologic descriptions are given in stratigraphic order.

MAFIC METAVOLCANICS

Mafic metavolcanics include massive and porphyritic flows. Both flow types are variably foliated from massive, to schistose in 2 to 5 cm wide chloritic shears. A rock cleavage defines an intermediate stage of brittle deformation.

Massive flows are fine-grained to medium-grained and equigranular. They are 5m or more thick and have grey-green weathered surfaces, darker on fresh surfaces. Weathering of this colour suggests an andistic composition.

Porphyritic flows also weather grey-green and have 15 to 20 percent chalky white plagioclase phenocrysts. These subhedral phenocrysts are randomly oriented in a very fine-grained, equigranular matrix. Phenocrysts are 1mm to 6mm in length and have aspect ratios of 1.5 to 2.0.

Felsic dikes (granodiorite) cut the mafic volcanics and have undergone ductile and brittle deformation. Extensional fractures have been filled by

quartz and tourmaline veins. These dikes are pinkish grey on weathered surface and have ghost-phenocrysts suggesting a primary porphyritic texture. Felsic dikes are fine-grained to almost aphanitic.

Oxide facies iron-formation has cm scale magnetite beds that alternate with cm scale grey chert beds. Chert is aphanitic and magnetite is aphanitic to very fine-grained. Bedding is preserved in iron-formation closest to the contact with mafic metavolcanics. Two meters downslope from this contact, the iron-formation is a sedimentory breccia defined by sub-angular magnetite fragments up to 10 cm in size in a grey chert matrix. Fragments have a weak contact conformable preferred orientation.

A mafic dike cuts the iron formation with a strike oblique to the metavolcanic contact. This dike is 30-40 cm wide, dips 45 degrees southeast, and is very fine-grained. It has a chloritic, dark green, weathered surface and has undergone moderately brittle deformation.

STRUCTURE

Two major structural fabrics record post-depositional deformation. The earliest fabric is an east to east southeast striking foliation that records ductile strain. Compression would have been along a northeasterly oriented axis. This fabric is defined by a chloritic schistose foliation best developed in the mafic metavolcanics.

Later, cross-cutting, north to north northeast striking quartz veins and rock cleavage reflect brittle deformation. This is an extensional fabric with planar openings filled by siliceous fluids. Continued compression, to form this more northerly oriented fabric, would have been oriented along a north to north north easterly striking axis. The change in orientation of compressional axis defines a counter clockwise rotation in response to a moving compressional source (Fig.5).

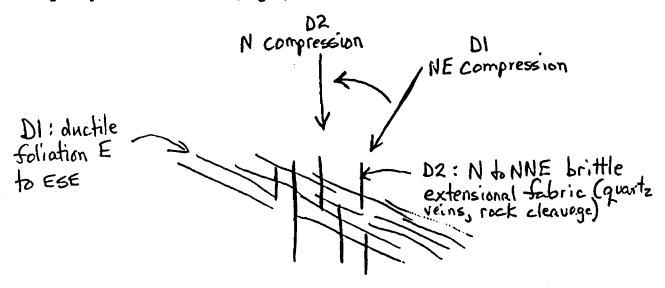


Fig. 5 Compressional fabrics reflect counter clockwise rotation of main compressional axes.

Deformation of the felsic dikes has formed pinch and swell structures and boudins. A lm dike boudin best records deformation (Inset, Fig 3). Initial ductile deformation of the dike formed the boudin. This event would be contemporaneous with the Dl east to east southest striking foliation in the host mafic volcanics. Continued compression along a north oriented axis resulted in a north-striking, silica-filled entensional fabric almost perpendicular to the strike of the boudin. The boudin exhibits a tourmaline-filled oblique rotational fabric. This oblique fabric is oriented to the southeast, defines a clockwise sense of rotation, and crosscuts the earlier quartz filled extensional fabric.

Ductile and brittle deformational fabrics define strain in response to:

- 1. Northeast compression rotating counterclockwise to
- 2. North or northeast compression.

Relaxation of compression would lead to a

3. Clockwise rotational fabric as the latest deformational event. (Fig 6).

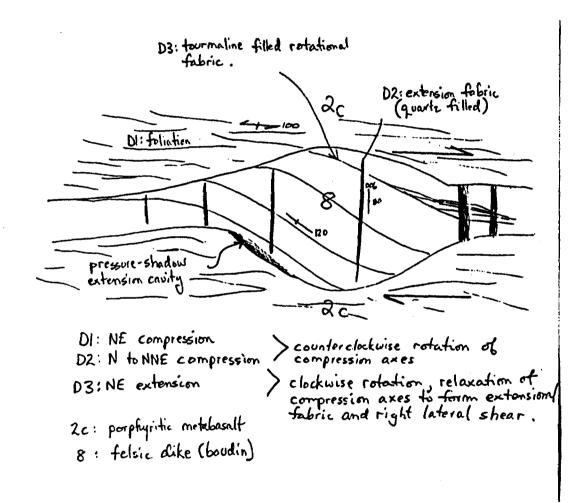


Fig. 6 Summary of kinematic indicators showing deformation (D1.D2,D3 events, Garnet property.

MINERALIZATION

Sulphide mineralization includes pyrite, arsenopyrite and trace chalcopyrite. These are secondary phases related to the faulted contact between mafic metavolcanics and iron formation. Lesser amounts are distributed along quartz vein contacts in metavolcanics. The relative proportions of py:aspy:cpy are approximately 55:40:5.

Pyrite is very fine-grained to fine-grained and is disseminated (2-5%) along the fault contact and across its width (10-30cm). Pyrite grains are generally subhedral to anhedral. A few euhedral pyrite grains occur up to 3mm in size in quartz-carbonate filled tensional shear openings.

Arsenopyrite occurs in two forms and was observed along the fault contact. A distinct "garlic" odour is given off when the rock is freshly broken. Arsenopyrite occurs as acicular euhedra and as amorphous to very fine-grained 1mm - 2mm aggregates.

Acicular arsenopyrite is silvery white, metallic, and randomly oriented. In places they form a "felted" texture defined by 0.5 mm long needles.

Arsenopyrite in aggregates is anhedral and equigranular. Aggregates are grey-white with a dull sub-metallic sheen. Aggregates are 2 to 3 mm in size and have irregular shape.

Chalcopyrite occurs in trace amounts (1-2%) and is very fine-grained. Secondary malachite staining was observed coating iron formation adjacent to the fault contact.

Samples (Fig.7)

A total of 34 rock chip samples were taken from the outcrop area. Two sections were chip sampled at 50 cm intervals across the iron formation, along lines roughly perpendicular to the fault contact. These lines are about 4m apart. Six 20-30 cm long chip samples were taken along strike of the fault contact. Two chip samples were taken from separate parts of the deformed felsic dikes. Two grab samples were taken, one from a lensoid quartz-carbonate filled tension gash with pyrite. The second is from a vuggy quartz vein with 2 cm chlorite clots, at the volcanic - iron formation contact.

WORK SUMMARY: NORAMCO EXPLORATIONS INC.

DATE	TYPE OF WORK	PERSONNEL
Sept 26-30 Sept 26-30 Sept 28-30 Oct 5-7 Oct 5-7	Power trenching Supervisor and sampling Geological mapping Drafting Report preparation	1 backhoe operator 1 Noramco Geological technician 1 Noramco Geologist 1 Noramco draftsman 1 Noramco draftsman
Oct 7	Report typing	1 Noramco typist

Backhoe contractor: Erana Mines Ltd. Sudbury, Ontario

PERSONNEL	<u>DAYS</u>
Backhoe operator	<pre>5 (34 hours of Backhoe time)</pre>
Noramco Technician	5 🗸
Noramco geologist	-6
Noramco draftsman	3 -
Noramco typist	1
Total	20 days + 34 hours backhoe

ASSAYS (Appendix 1)

Assays were done by Bondar-Clegg & Company., Ottawa, Ontario. Thirty - four (34) rock chip samples were submitted. Results are given in Appendix 1.

CONCLUSIONS

Prior assay results indicate values up to 0.144 oz/t gold. Exposure of the iron formation and volcanic contact exhibits secondary pyrite and arsenopyrite within the 20 to 30 cm wide fault contact. In the absence of assay results, it is suggested that this mineralized contact zone is of interest for Au Potential. The deformed felsic dikes are also considered to be of interest.

RECOMMENDATIONS

It is recommended that additional work be directed at locating more iron formation. In particular, exploration of the contact zone is of high priority. This can be accomplished through the use of detailed ground magnetometer surveys and further power trenching or stripping. Attention should also be given to late north-striking quartz veins cutting the fault contact and iron formation.

REFERENCES

- MASSON, S.L., 1986
 Geological Survey Report on the Garnet Lake Property, Garnet
 Township, District of Sudbury, Ontario for Western Pacific Energy
 Corporation, 20p.
- WINTER, L.D.S., 1985

 Geological Report on the Garnet Lake Property, Garnet Township,
 District of Sudbury, Ontario for Western Pacific Energy
 Corporation. 18p.
- WINTER, L.D.S., 1986A

 Report on the Exploration Programme on the Garnet Township

 Property, Ontario for Western Pacific Energy Corporation, 11p.
- WINTER, L.D.S., 1986B
 Report on the Diamond Drilling Programme on the Garnet Township
 Property, Ontario for Western Pacific Energy Corporation, December
 1985 February 1986, 9p.

CERTIFICATE OF QUALIFICATION

- I, Peter James Whittaker do hereby certify that:
- I am a geologist and reside at R.R. #1, 14 Shelp Street, North Bay, Ontario.
- 2. I am a member of the Geological Association of Canada.
- 3. I graduated from:
 - Laurentian University (Sudbury, Ontario) in Geology with an Honours Bachelor of Science degree in 1976.
 - McMaster University (Hamilton, Ontario) in Geology with a Master of Science degree in 1979.
 - Carleton University (Ottawa, Ontario) in Geology with a Doctor of Philosophy degree in 1983.
- 4. I have practiced my profession continuously for twelve (12) years.
- 5. My report on the Garnet Lake property, Garnet Townships, Ontario is based on my personal knowledge of the geology of the area, work on the property and on a review of published and unpublished literature on the property and surrounding area.

P.J. Whittaker M.Sc., Ph.D

October 7, 1988

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Ottawa, Ontario K13 8X3 (613) 749-2220 Telex (53-323)

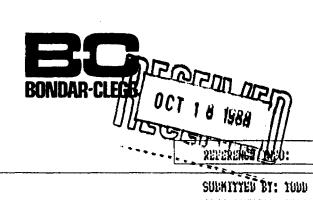


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Bondar-Clegg & Company Ltd. 5420 Canotek Road Otta Ontario 1) 749-2220 Telex 053-3233



Geochemical Lab Report

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\$ 409.36	+ [15] = [7	7.30		<u> </u>			1		ber of mining ared by this	.,
structions								report of v		/
Total Days Credits may be ap choice. Enter number of days			1		For Office Use]	1	
in columns at right.				Total Days Recorded	Cr. Days Record	17/	1	Mining Rec	% / , <i>[]</i>	<i>(</i>)
ie Rec	orded Holder or Agent (S	ignature)		127.29	Daje Approv	1 / 8	000	Branch Dir	- Two	AP
30°	711 Dateau	ì		41.	4	a 80	3	4/1	low.	_
rtification Verifying Repor			'				94	13		
I hereby certify that I have a por witnessed same during and/	or after its completion a					rt of Work	nnex	ed hereto, h	eving performed th	e work
me and Postal Address of Pers		_		11.	(+ , .	1	~!	/* ··	7.	
Nonmen Explor	Uliais Like.	/:27:	5,	/saul	Date Certifie	1. 14/1 /	lei.	Certified by	(Signature)	
Part Professional					1.6	d week			> .	1

1.	Type of Survey
2.	Township or Area
3.	Numbers of Mining Claims Traversed by Survey
4.	Number of Miles of Line Cut Flown
* 5.	Number of Stations Established
* 6.	Make and type of Instrument Used
* 7.	Scale Constant or Sensitivity
* 8.	Frequency Used and Power Output
9.	Summary of Assessment Credits (details on reverse side)
	Total 8 hour Technical Days (Include Consultants Draughting etc.)
	Total 8 hour Technical Days (Include Consultants, Draughting etc.)
٠	Total 8 hour Line-Cutting Days Total 8 hour Line-Cutting Days
	Total 8 hour Line-Cutting Days Calculation 9 x 7 = 63 ÷ 1 = 63. Technical Line-cutting Total Assessment credits of claims per claim
	Calculation 9 x 7 = 63 + 63 + 100 -
	Calculation 9 x 7 = 63 + 63 + Line-cutting Days Technical Line-cutting Number Assessment credits of claims per claim The dates listed on this form represent working time spent entirely within the limits of the above listed claims Check If otherwise, please explain
	Calculation 9 x 7 = 63 + 63 + 1
	Calculation 9 x 7 = 6.3 + Line-cutting Technical The dates listed on this form represent working time spent entirely within the limits of the above listed claims Check If otherwise, please explain Dated: Signed:
	Calculation 9 x 7 = 63 + 63 + 100 100
	Calculation 9 x 7 = 63 + Line-cutting Technical The dates listed on this form represent working time spent entirely within the limits of the above listed claims Check If otherwise, please explain Dated: Signed:
	Calculation 9 x 7 = 63 + Line-cutting Number of claims per claim The dates listed on this form represent working time spent entirely within the limits of the above listed claims Check If otherwise, please explain Dated: Signed:

Complete list of names, addresses and dates on reverse side.

Submit separate breakdown for each type of survey.

(B) (C) (D)

Submit in duplicate.

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Details of Assessment Work Breakdown

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	Details of Assess	ment Work Breakdown	**
FIELD WORK			
Type of Work	Name & Address	Dates Worked	Number of 8 hour day

****************	****************		

CONSULTANTS			
Name & Address	Dates Worked (spec	ify in field or office)	Number of 8 hour day

DRAUGHTSMAN, TYPI	NG, OTHERS (specify)		Number of
Name & Address	Type of Work	1	8 hour day
•••••••			ļ
		TOTAL 8 HOUR TECHNICAL	DAYS
LINE-CUTTING			Number of
Name	Address	Dates Worked	8 hour day
***************************************		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		TOTAL 8 HOUR LINE-CUTTING	DAYS

,一个人,我们就是一个人的,我们也是一个人的,我们就是一个人的,我们就是一个人的,我们也不会有一个人的,也是一个人的,我们也会会会会会会会会会会会会会会会会会会 一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就



Ministry of Natural Resources Report of Work (Geophysical, Geological, Geochemical and Expenditures)



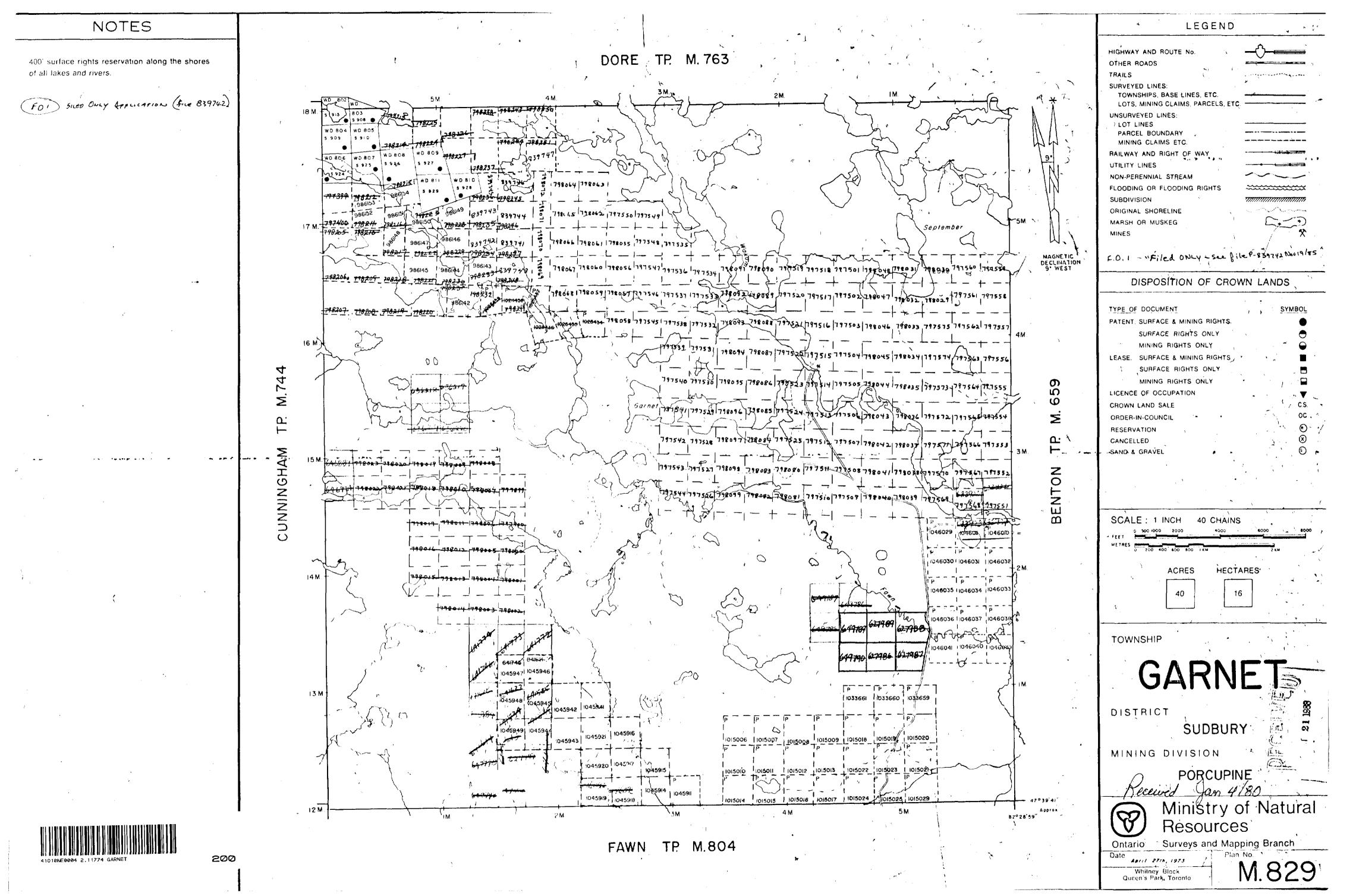
nstructions: — Please type or print.

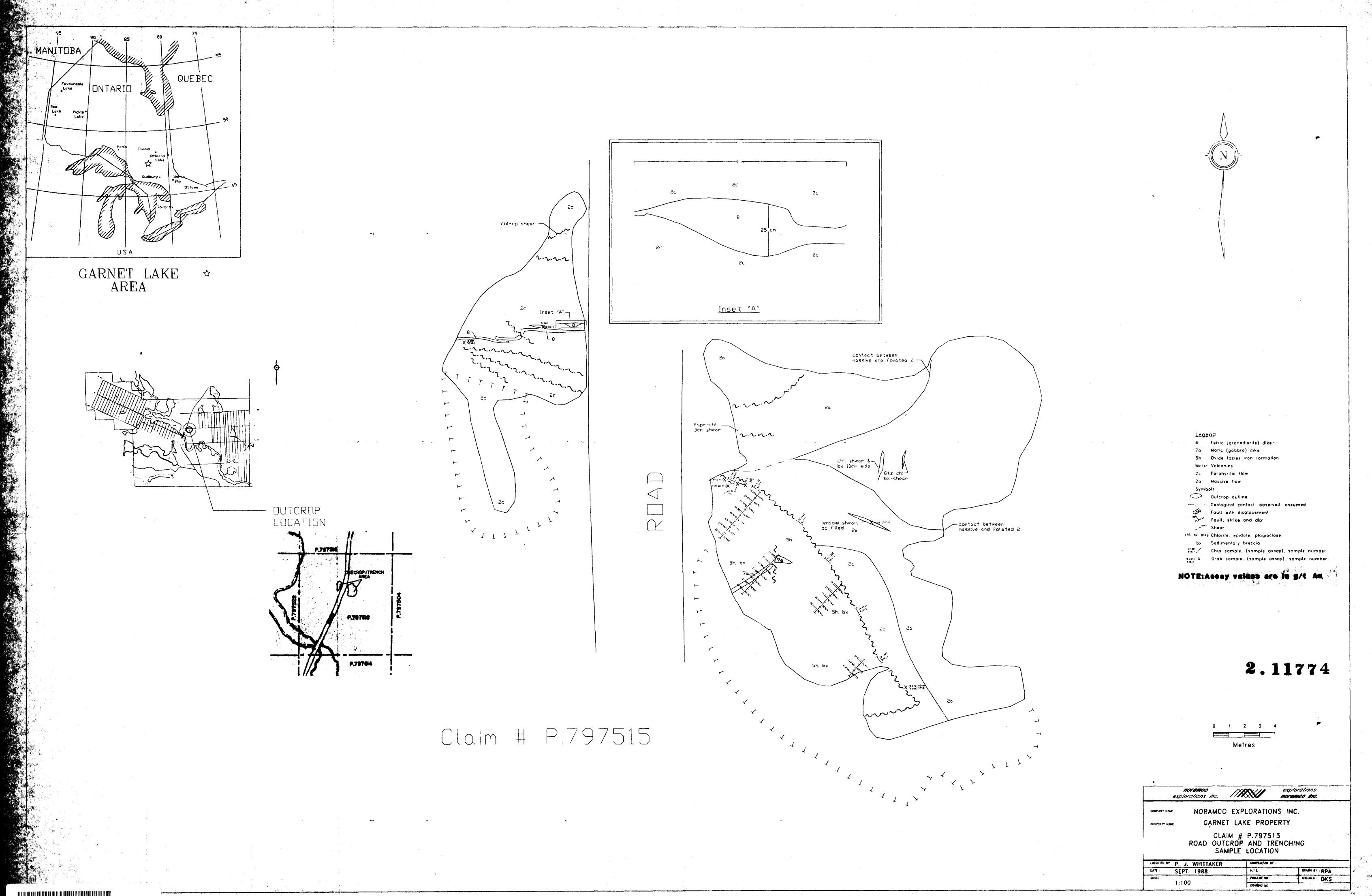
— if number of mining claims traversed exceeds space on this form, attach a list.

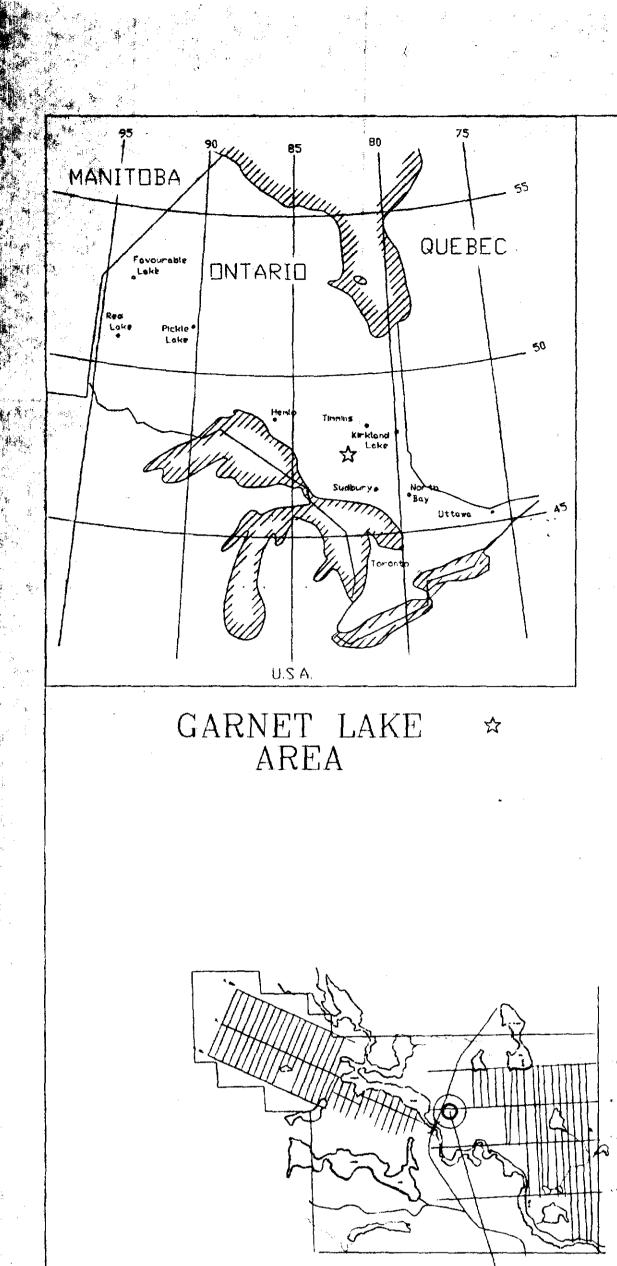
Note: — Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

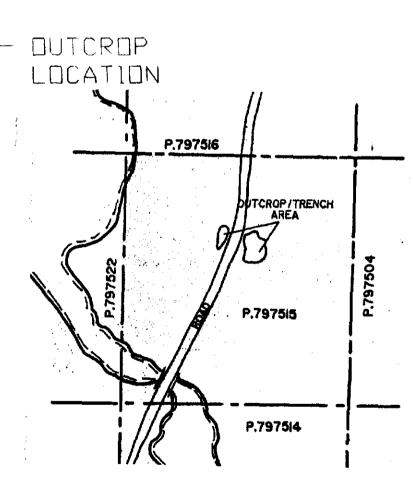
- $ -$	ocnet		The Mining Act	-	- Do not use shaded areas bel	ow.
Type of Survey(e) Cechemica Chalm Holder(e) Address J.275 MAIN Survey Company Norwing Ex Name and Address of Author (e)				Township	or Area	
Gerchemica	al Survey		4 1 7	74	(which Two	
Cleim Holder(s)			~ .		Prospector's Licence'No.	
Western 13	icitic cherry	4 6	-bowpon		1-4931	
Address	(J) 1	<i>'</i>	_		
1275 Main	DIM Nou	th , De	Date of Surv	PIB DU	Total Miles of lin	• Cut
Burvey Company		3	26,09	, §8 30 ,	09.88	·
Name and Address of Author (of Geo-Technical report)	inc	Day Mo.	Yr. Day	Mo. Yr.	
17-15 Min 5	+ 1,2 1/2	La 2	y Costario			
Credits Requested per Each	Claim in Columns at I	right 2	Mining Claims Traversed	d (List in num	erical sequence)	
Special Provisions	Geophysical	Days per	Mining Claim	Expend.	Mining Claim	Expend
Man Stand aromany	Goophysical	Claim	Prefix Number	Days Cr.	Prefix Number	Days C
For first survey: Enter 40 days. (This	- Electromagnetic		P 797515	-		
includes line cutting)	- Magnetometer					
			1111 CONS		1 C C C C C C C C C C C C C C C C C C C	
For each additional survey:	- Radiometric					}
using the same grid:	- Other					1
Enter 20 days (for each)						
	Geological					İ
	Geochemical					
Man Days	 	Days per				
	Geophysical	Claim				
Complete reverse side	- Electromagnetic					
and enter total(s) here	1					
	- Magnetometer		Carried to		realists of	
	- Radiometric]]		1
	- Other					
	· Other		X			
	Geological	İ		• 1 1		1
	Geochemical					
Airborne Credits	Coccinentical	30				
Air During Credits		Days per Claim		1 (-
Note: Special provisions	Electromagnetic		:			
credits do not apply		 				
to Airborne Surveys.	Magnetometer					
	Radiometric				44.8	
Expenditures (excludes pow	er stripping)	<u> </u>				-}
Type of Work Performed	or ottripping/					
		}				Ì
Performed on Claim(s)						
		1			16.10.11	
		•				1
Calculation of Expenditure Days		Otal				
Total Expenditures		Credits				
\$	+ 15 =				Total number of mining	
	_ا لنا لـ				claims covered by this	1
instructions Total Days Credits may be an	portioned at the claim h	older's			report of work.	·
choice. Enter number of days			For Office Use	Only		
in columns at right.	· · · · · · · · · · · · · · · · · · ·		Total Days Cr. Date Recorde Recorded	00	Mining Recorder	
Date Rec		·	B.A. A.	a an Danasala	Breach Diseases	
	corded Holder or Agent (S	ignature)	Date Approve	d as Recorded	Branch Director	
Critication Verifying Pone	In Dubeau					
ertification Verifying Repo	IL OI YVOTK				. €'	30

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

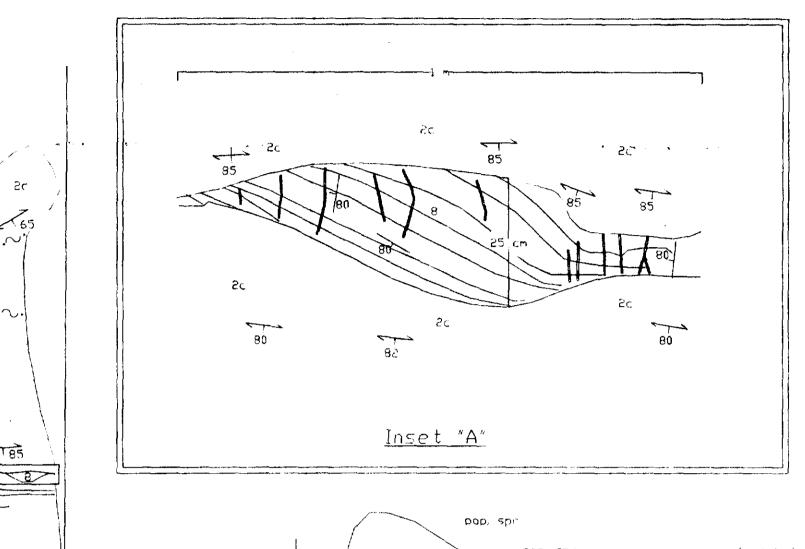


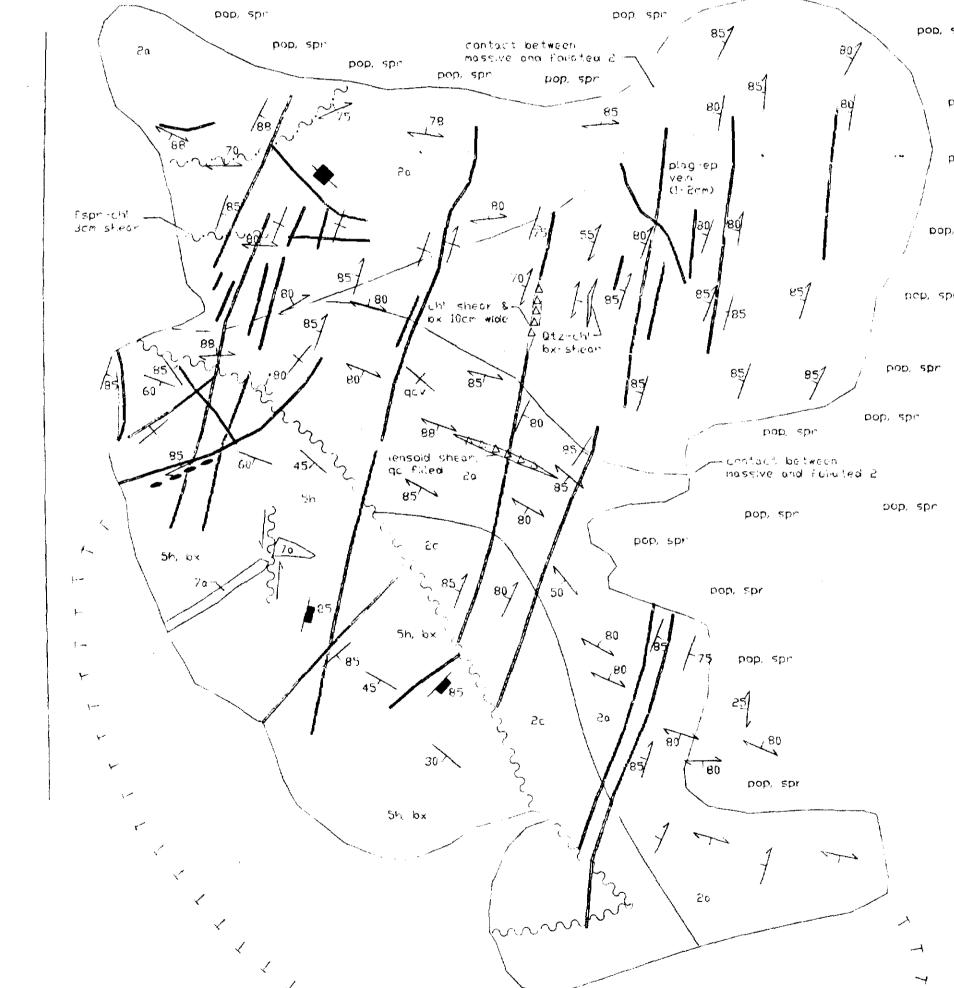




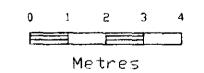


Claim # P.797515





2.11774



	m co explorations inc.	////////	explorations noranco inc.
COMPANY NAME	NORAMCO	EXPLORATIO	NS INC.
PROPERTY NAME	GARNE	T LAKE PROF	PERTY
	CLA ROAD OUT	IM # P.7975 CROP AND TE GEOLOGY	15 RENCHING
EXECUTED BY	P WHITTAKER	COMPLATION B	
DATE .	.E. 7. 1988	A.T.S.	DRAIN BY . RP
SCALE		PROJECT NO :	CHECKED : DK

8 Felsic (granodiorite) dike 7a Mafic (gabbro) dike

Matic Volcanies

2c Porphyritic flow 2a Massive flow

/ Quartz vein

Outcrop outline

QC Quartz-carbonate vein

Fault; strike and dip

🏄 🚾 Joint; strike and dip

Δ Tetonic breccia bx Sedimentary breccia Magnetite boudins

Fault with displacement

✓ ✓ Strike and dip; inclined, vertical **/ * Rock cleavage; inclined, vertical 📈 🗡 Foliation; inclined, vertical pop. spr Mixed poplar, spruce bush cht. ep. plag Chlorite, epidate, plagiaclase

54: Oxide tacies iron formation