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Geological Assessment Report Report No. 8104.3.3 Geology of The Pine Cone Claim Group Horwood Township, Ontario

Gold Fields Canadian Mining Ltd. 335-230 Lakeshore Rd. East Mississauga, Ontario L5G 1G7

> By: W. R. Troup July 1984

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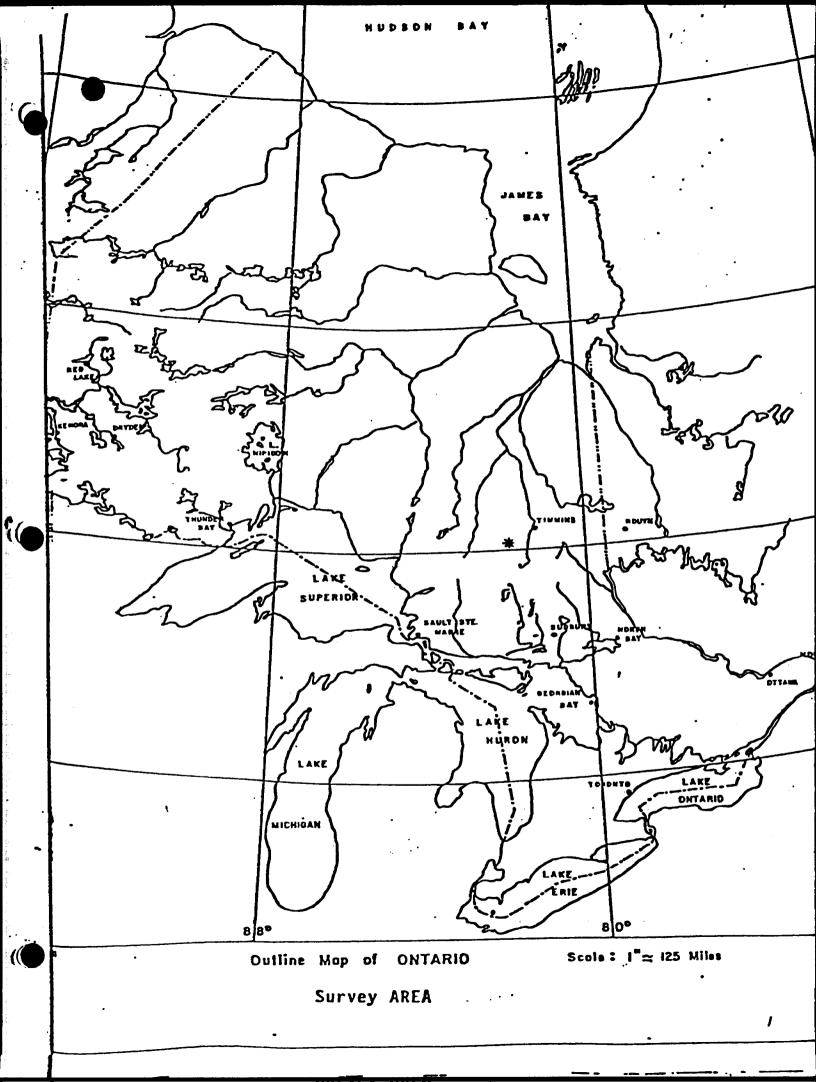
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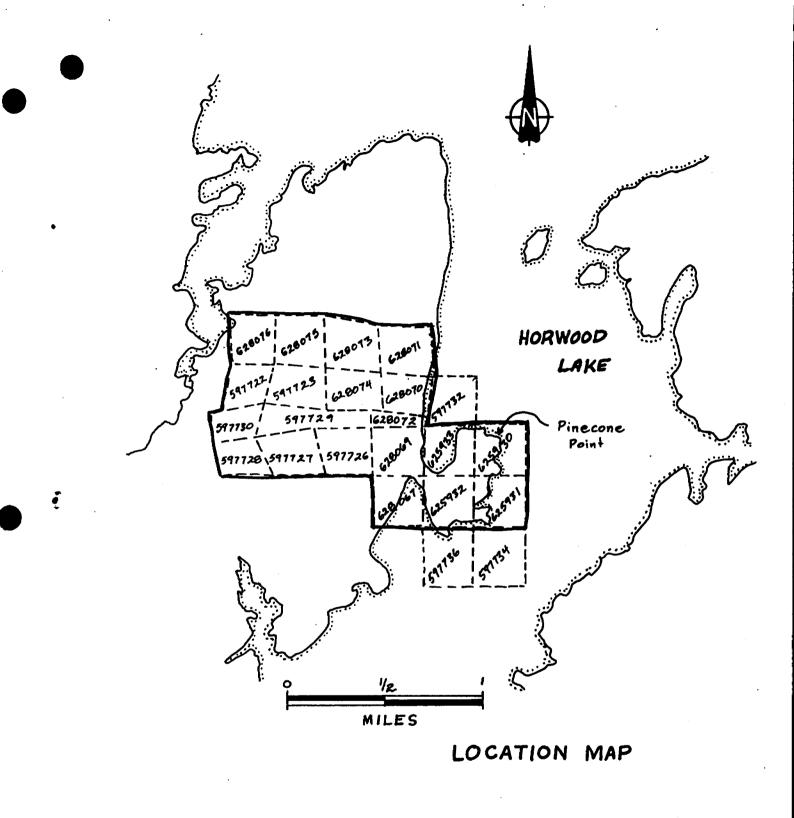
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INTRODUCTION

This report pertains to the ground geological survey covering the Pine Cone Point claim group, registerd under Darius Gold Mine; c/o Gold Fields Canadian Mining Ltd. Mississauga, Ontario.

Field work began June 1, 1982 and continued intermittently until August 15, 1982.

LOCATION AND ACCESS

The survey area is located in the Foleyet region (Northeast Ontario), 56 air miles (90 kms) southwest of Timmins. The property is accessible from Timmins via Highway 101 (west) to the Palomar road turn off, go south via an Ontario Forests public access road to Wade's Camp, on the northwest shore of Horwood Lake, then lastly, via boat to the claim group.

GRID DESCRIPTION

The Pine Cone Point grid consists of 24 grid lines, a baseline and two tie lines cut and chained for a total of 42.5 kms. The baseline was turned off from the Number 4 post of claim KRL 597722 at azimuth 121°. Grid lines were turned off at 125 meter intervals. In total 42.5 km of grid were established.

TOPOGRAPHY AND VEGETATION

The terrain is "rugged" or hilly on the east side of the property becoming gently undulating to flat, westwards. This corresponds to decreasing rock exposure eastward, average outcrop density is 2-5%. Except for Horwood Lake no other lakes or rivers occur on the property. Overburden consists of a basal till overlain by either fine outwash sands or silty clays of varying thickness.

A typical, mixed boreal forest vegetation covers the property consisting of "high ground" poplars, birches, jack pines, mountain maple and "low ground" black spruce, balsam fir and alder.

FIELD METHODS

The claim group was mapped at a scale of 1:2500 (metric) on the above described grid (see map No. 8106 3,2a,b). Location of features between picket lines was by pace and compass from a known location.

PREVIOUS WORK (as per Breaks 1978, Harding 1937)

Economic Au mineralization was discovered in 1939 on the J. Charlebois property approximately 1.2 km S.E. of the Pinecone Claims (FIGURE 3b). In 1948 the strike of mineralization was extended to 300 m, averaging 0.31 oz/ton over 1m. In 1960, Kerr Addison optioned 5 claims located approximately 1.6 km N.E. of the Pinecone claims (FIGURE 3b) from J. Lefever. Diamond drilling was used to investigate a zone 75 m long and up to 0.5 m wide. Au values ranged from 0.43 to 3.46 oz/ton. Additional claims have recently been added to the west side of the property.

O'Neil Gold Prospecting Syndicate held 12 claims in the Pinecone Point area in 1933. Approximately 30 pits and trenches were sunk in at least 4 areas of the property (MAP 2A). Most trenches are now overgrown.

The main showing was described by Harding (1937; FIGURE 3c). Harding reports that 2 mineralized grab samples gave Au values. The main showing was tested with at least one d.d.h.

In 1974 Noranda carried out a detailed mag and VLEM survey on the eastern 4 claims now held by Gold Fields.

GENERAL GEOLOGY

The Pine Cone Point claim group lies within a generally east-west trending metavolcanic-metasedimentary belt known as the Swayze greenstone belt (Goodwin, 1965) Breaks (1978, p5) describes the area as follows: "All bedrock is of Early Precambrian (Archean) age with the exception of Middle to Late Precambrian diabase dike swarms. Mafic metavolcanics predominate and together with minor felsic metavolcanics comprise the oldest rocks...Pretectonic mafic to ultramafic plutons of variable size, which are especially notable in Horwood township, invade the metavolcanic sequence, are believed to be consanguineous with Early Precambrian mafic volcanism....The syntectonic domical Hardiman Lake Pluton, consisting predominately of foliated trondjemite, invaded the supracrustal sequence in southeast Horwood Township and induced eastwest to north-south trending cross-folds adjacent to the pluton near Great Pike Lake". Metasediments are rare in the area. Regional metamorphism is within the greenschist facies.

GEOLOGY OF THE PINE CONE POINT GROUP

The Pine Cone Point claim group is underlain by an east-west trenching sequence of mafic volcanics. The volcanics are intruded locally by small masses of metadiorite and narrow felsic sills. The northeast 1/3 of the property is inferred from the magnetics to be underlain by part of a large granite intrusive. Outcrop is lacking in the north 1/3 of the property.

All rocks of the area have been subjected to regional greenschist facies metamorphism. Typically the mafic metavolcanics, which represent the majority rock type in the area are fine grained to aphanitic, less commonly medium grained, with fresh surface colours of pale to dark green and grey green. Pillowed mafic flows, present on Pine Cone Point, indicate that stratigraphic tops is to the south.

Stratigraphy trends approximately east-west (110°-130°) and dips nearly vertically. Faulting with associated shearing occurs in several places throughout the property. The direction of shearing is close to paralleling stratigraphy.

MINERALIZATION AND ALTERATION

Two zones of carbonate alteration Zone A & Zone B were encountered during the course of mapping.

ZONE A

Zone A, located near the S.E. tip of Pine Cone Point, is characterized by a strong zone of sheared and carbonated mafic volcanics. The zone trends approximately 120° and dips near vertically. Near the shore of Horwood Lake a small quartz porphyry sill occurs within the alteration zone.

Noteable alteration features include carbonate (calcite and iron rich carbonates), sericite, epidote and the presence of quartztourmaline stringers. Pyrite is present in minor amounts throughout the zone of alteration.

The alteration zone has a minimum width of 50 feet being covered to the S.E. by a thick clay cover.

ZONE B

Zone B occurs near the NE limit of Pine Cone Point. As in the case of Zone A the alteration is characterized by shearing and carbonate alteration. The host rock is either diorite or a coarse grained mafic volcanic. A narrow 6 inches wide quartz vein parallels the strike of the foliation but dips at a shallow angle to the north. Minor pyrite is again associated with the host rock and the quartz veining.



Harding, W. D. 1937

Breaks, F.W. 1978

Geology of the Horwood Lake Area . O.D.M. Vol XLVL, Pt. 11

Geology of the Horwood Lake Area O.G.S. Report 169

STATEMENT OF QUALIFICATIONS

William R. Troup c/o Gold Fields Canadian Mining Ltd. Suite 335-230 Lakeshore Rd. East Mississauga, Ontario L5G 1G7

I certify that the previous information is correct to the best of my knowledge. I am a geologist and have been practicing my profession in Ontario for 14 years.

I am employed by Gold Fields Canadian Mining and supervised the field work carried out on the Pine Cone Point Property during 1982.

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Mining Lands Section

File No 2.6982

Control Sheet

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TYPE OF SURVEY GEOPHYSICAL GEOLOGICAL GEOCHEMICAL EXPENDITURE

MINING LANDS COMMENTS:

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Signature of Assessor

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Date

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Your File: 283-84 Our File: 2.6982

Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

RE: Notice of Intent dated September 11, 1984. Geological Survey on Mining Claims P 597722 et al in the Township of Horwood.

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

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

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416) 965-6918

S. Hurst:sc

- cc: Darius Gold Mine Inc Suite 335 230 Lakeshore Road East Mississauga, Ontario 15G 168
- cc: Mr. G.H. Ferguson Miging & Lands Commissioner Toronto, Ontario

cc: Resident Geologist Timmins, Ontario



Technical Assessment Work Credits

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Mining Recorder's Report of Work No. 283-84

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HORWOOD TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	P 597722-23
Electromagnetic days	597726 to 730 inclusive 625930 to 933 inclusive
Magnetometer days	628069 to 076 inclusive
Radiometric days	
Induced polarization days	
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological days	
Geochemical days	
Man days 🗌 🛛 Airborne 🗖	
Special provision 🛛 Ground 🖄	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
Special credits under section 77 (16) for the following m	nining claims
10 DAYS CREDIT	
P 628067	
No credits have been allowed for the following mining cl	aims
not sufficiently covered by the survey	Insufficient technical data filed
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The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19) — 60:



Ministry of Natural Resources

Spt 26/84

1984 09 11

Your File: 283-84 Our File: 2.6982

Bruce W. Hanley Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3

S. Hurst:mc Encls.,

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- cc: Darius Gold Mine Inc Suite 335 230 Lakeshore Road East Mississauga, Ontario L5G 1G8
- cc: Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario

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Ministry of Natural Resources Notice of Intent for Technical Reports 1984 09 11 2.6982/283-84

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

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Mississauga Ontavio June 21 / 54 William	Name and Postal Adoress of Per	son Certifying		······					
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GOLD FIELDS CANADIAN MINING, LTD.

A Consolidated Gold Fields Group Company

230 LAKESHORE ROAD EAST, SUITE 335 MISSISSAUGA, ONTARIO L5G 1G8 PHONE: (416) 271-0181 TELEX 06-960446

RECEIVED Land Management Branch CIRCULATE \Box COMMENTS PLEASE £Υ SEP - 4 1984 G. E. YUNDT J. R. JOSTON di Cirenini (W. L. GOOD M. J. HOGAN W. P. BROOK R. 6643

August 30, 1984

Land Management Branch Whitney Block, Room 6643 Queens Park Toronto, Ontario M7A 1W3

RE: File 2.6982

Dear Sir:

I am returning the signed copies of our Pine Cone Point geological maps which were recently received from your office.

I regret the original oversight on my part.

Yours truly, William R. Troup

Senior Geologist

RECEIVED

encls.

SEP 0 4 1984

MINING LANDS SECTION

August 20, 1984

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File: 2.6982

Darius Gold Nine Inc #335 - 230 Lakeshore Road East Mississauga, Ontario L5G 108

Dear Sirs:

RE: Geological Survey submitted on Mining Claims P 597722 et al in the Township of Horwood

Returned herein are the plans, (in duplicate), for the above-mentioned survey. Please have the author of the report sign each copy and return the material to this office quoting file 2.6982.

For further information, please contact Hr. Ray Pichette at (416)965-4888.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-4888

S. Hurst:mc

cc: Mining Recorder Timmins, Ontario

Encl.

1984 08 02

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1 Balan

Your File: 283/84 Our File: 2.6982

Mr. Bruce Hanley Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

We have received reports and maps for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 597722 et al in the Township of Horwood.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-6918

S. Hurstysc

- cc: Darius Gold Mine Inc 230 Lakeshore Road East Mississauga, Ontario L5G 1G8
- cc: Goldfields Canadian Mining Ltd 230 Lakeshore Road East Suite 335 Mississauga, Ontario L5G 1G8



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Ministry of Natural Resources

File_

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geological	
Township or Area Horwood	MINING CLAIMS TRAVERSED
Claim Holder(s) Darius Gold Mine Inc.	Chit numerically answert.
<u>335-230 Lakeshore Rd. E. Mississauga</u>	
Survey Company_Gold_Fields_Canadian_Mining_Ltd	(prefix) (number)
Author of Report <u>W. R. Troup</u>	(prefix) (number) P 597722
Address of Authoras above	P 597723
Covering Dates of Survey May 1982 - Sept. 1982 (linecutting to office)	P 597726
Total Miles of Line Cut <u>42.5 km</u>	P 597727
SPECIAL PROVISIONS DAYS	P 597728
<u>CREDITS REQUESTED</u> Geophysical per claim Electromagnetic	P 597729
ENTER 40 days (includes line cutting) for first —Magnetometer	P 597730
survey. –Radiometric	P 625930
ENTER 20 days for each –Other additional survey using Geological 20	P 625931
additional survey using Geological 20 same grid. Geochemical	P 625932
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	P 625933
MagnetometerElectromagneticRadiometric	P 628067
DATE: July 4/24 SIGNATURE: Julian From	P 628069
Author of Report or Agent	P 628070
Res. Geol. Qualifications 2.1844	P 628071
Res. GeolQualificationsQual	P 628071
File No. Type Date Claim Holder	P 628072
$ \mathbf{R} ^{\mathbf{g}}$	P 628074
	ULO91984 P _{P.M.} 628075
718.91	0 11 12 1 2 3 4 5 6 P 628076
	TOTAL CLAIMS 20

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OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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Profile scale				
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Diurnal correction me	ethod		······································	
Base Station check-in	interval (hours)			
Base Station location	and value		1999 197 - 197 197 197 197 197 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197	
Instrument	<u> </u>			
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		(specify V.L.F. station)		
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Instrument		·		
Scale constant				
	l location			
Instrument				
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Parameters – On time		Fre	quency	
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Electrode spacing		·····		
Type of electrode			· · · · · · · · · · · · · · · · · · ·	

INDUCED POLARIZATION

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SELF POTENTIAL		
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Survey Method		
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RADIOMETRIC Instrument		
Values measured		
Energy windows (levels)		
	Background Count	
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Overburden		
	(type, depth – include outcrop map)	
OTHERS (SEISMIC, DRILL WELL Type of survey	L LOGGING ETC.)	
Accuracy		
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Additional information (for underst	tanding results)	
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AIRBORNE SURVEYS		
Instrument(s)		
Accuracy	(specify for each type of survey)	
	(specify for each type of survey)	
Navigation and flight path recovery	method	
Aircraft altitude	Line Spacing	
	Over claims only	

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GEOCHEMICAL SURVEY – PROCEDURE RECORD



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Type of Sample		per cent p. p. m. p. p. b.
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Horizon Development		
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	Analytical Method	
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	Ontario

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Ministry of Natural Resources

File.

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

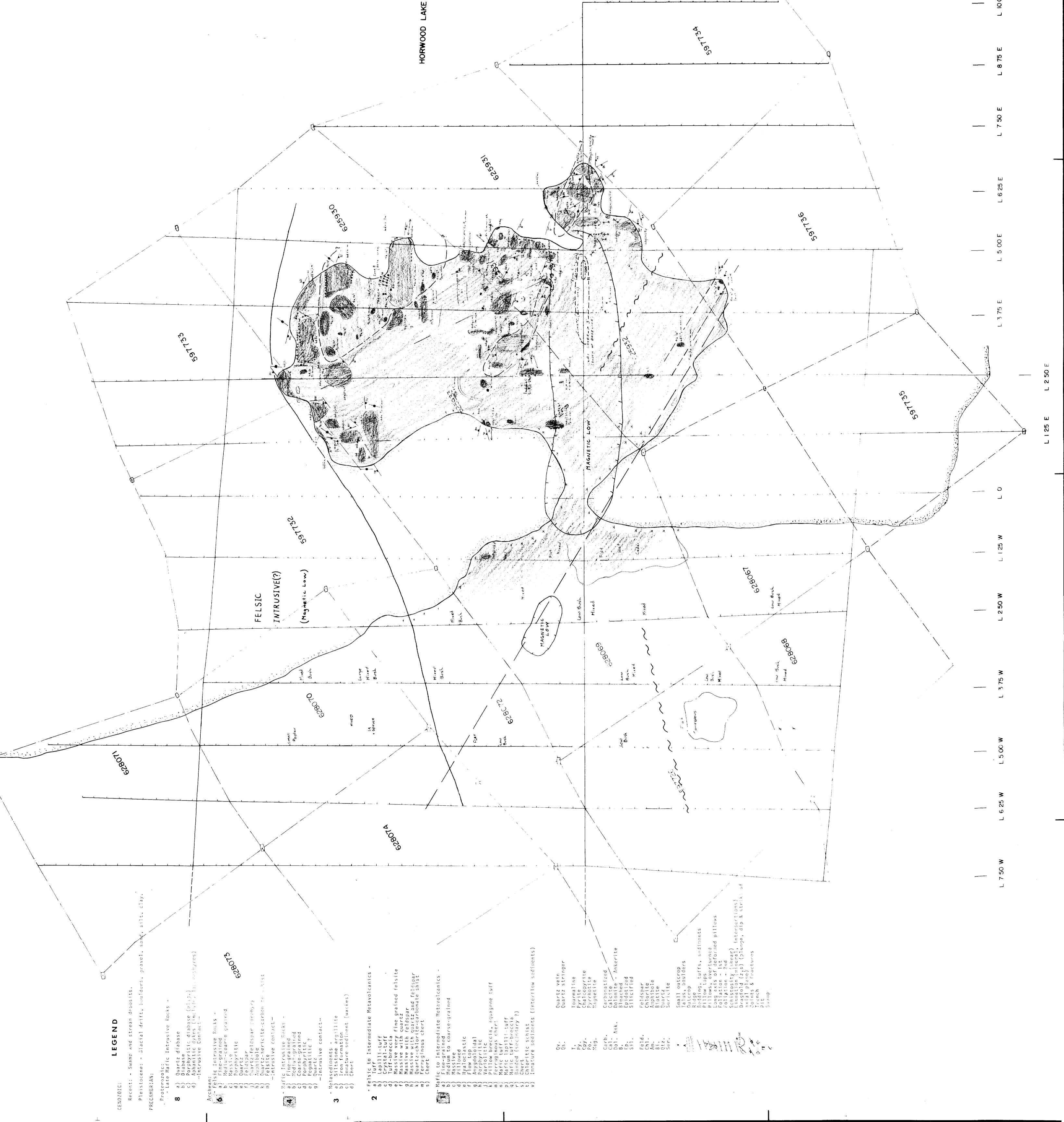
Type of Survey(s) Geological	•
Township or Area <u>Horwood</u>	MINING OF A BAS TO AMERICAN
Claim Holder(s) Darius Gold Mine Inc.	MINING CLAIMS TRAVERSED
<u>335-230 Lakeshore Rd. E. Mississauga</u>	
Survey Company_Gold_Fields_Canadian_Mining_ltd	
Author of Report W. R. Troup	(prefix) (number) P 597722
Address of Author <u>as above</u>	P 597723
Covering Dates of Survey <u>May 1982 - Sept. 1982</u> (linecutting to office)	
Total Miles of Line Cut 42.5 km	P 597726
	P 597727
SPECIAL PROVISIONS DAYS	P 597728
CREDITS REQUESTED Geophysical per claim	P 597729 -
ENTER 40 day's (includes Line gutting) for first 	-P597730
line cutting) for firstMagnetometer surveyRadiometric	P * 625930
ENTER 20 days for eachOther	P 625931
additional survey using Geological 20 same grid. Geochemical	P 625932
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	P 625933
MagnetometerElectromagnetic Radiometric	P 628067
DATE: July 4/44 SIGNATURE: Julian Front	P 628069
Author of Report or Agent	P 628070
	628071
Res. GeolQualifications	P 628071
Previous Surveys File No. Type Date Claim Holder	P 628072
	P 628073
	P 628074
	P 628075
	P 628076
	TOTAL CLAIMS20
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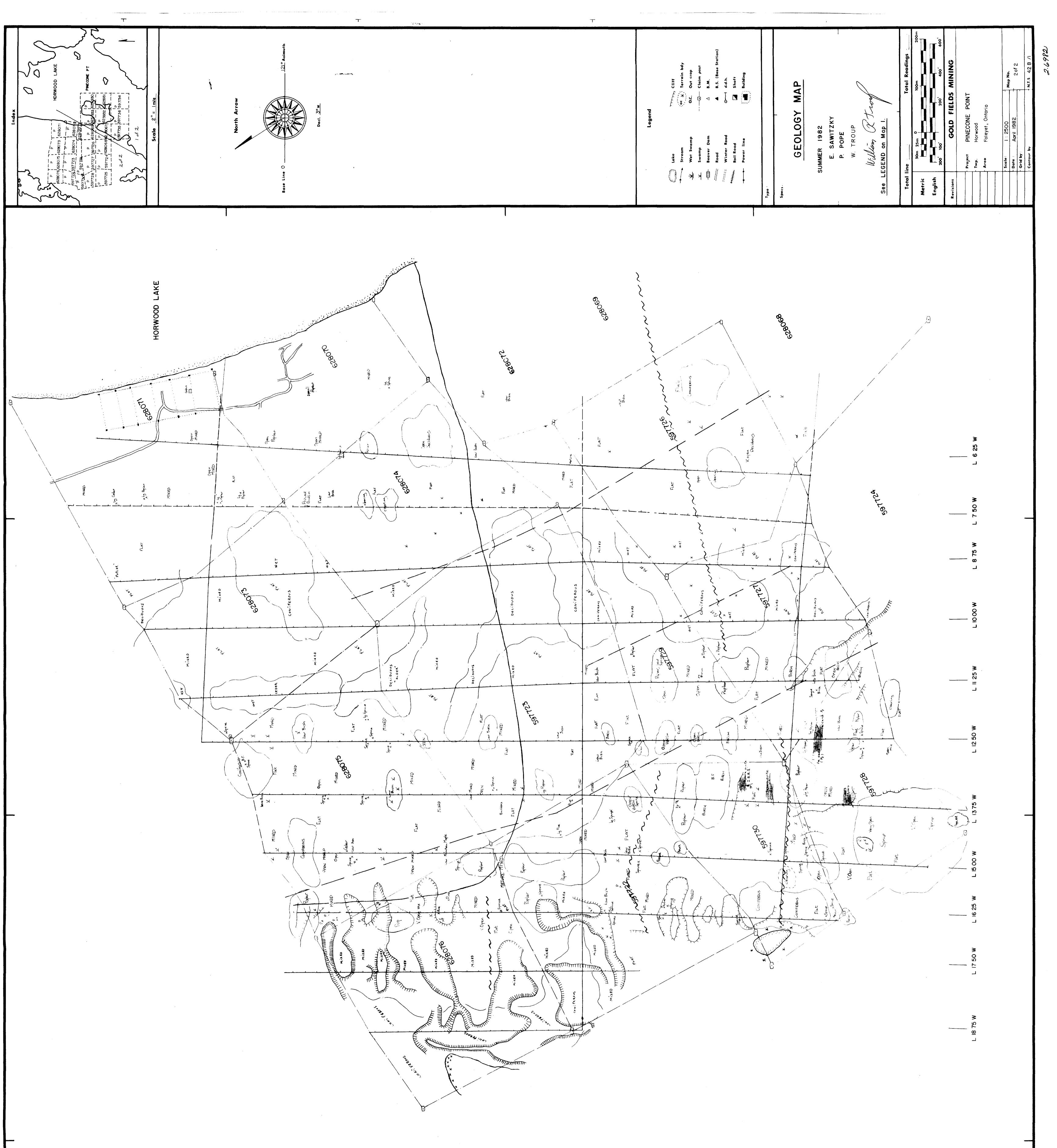
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redits Requested per Each Claim in Columns at right	Name and Address of Author (o 335-230 Lakesh	f Geo-Technical report)	liccico	2003	Ontario	156 169	2	•	
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