



42L04NE0085 2.8202 OBOSHKEGAN

010

2.8202

GEOLOGY OF THE
KNUCKLETHUMB LAKE AREA
PROJECT #1799 N.T.S. 42L/4E

Kevin Thompson

RECEIVED

JUN 12 1985

MINING LANDS SECTION



INTRODUCTION

The property consists of 18 claims located to the north and west of Knucklethumb Lake in Oboskegan Township within the the Thunder Bay Mining Division. Knucklethumb Lake is approximately 54 km north of Jellicoe and is only accessible by float plane during the summer months. Logging roads are present somewhat to the west and northwest of the property.

Outcrop exposure is not much more than 10% of the total area. Bedrock is mainly exposed in the extreme western part of the property, the northeastern part of the property and around the west end of Knucklethumb Lake.

The majority of the rocks present are felsic pyroclastics with lesser amounts of mafic volcanics present to the north and northeast. A zone of strong alteration and sulphide mineralization occurs in the west end of the property. The zone consists of rhyolitic sericitic schists which contain discrete lenses and masses of siliceous rock carrying up to 25% pyrite and pyrrhotite. The alteration zone has a NNE trend and appears to cross-cut stratigraphy.

PREVIOUS WORK

THE OGS originally mapped the area in 1924 when Gledhill conducted a geologic examination of the Tashota-Onaman area. In 1931, the Kowkash-Ugoki area was examined by Kindle. Most recently, S. Amukun mapped the Tashota area in 1973.

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Eleven patented claims immediately to the north of Sherritt's ground are presently held by R.J. Noffke of Ottawa and include the Kipper-Cameron Gold Prospect. Gledhill (1925) and Kindle (1931) described the occurrence and state that "... the (gold) mineralization is along a shear zone at the contact of Keewatin greenstone (metabasalt) and quartz porphyry (lapilli tuff to pyroclastic breccia)," (Amukun, 1977).

In September 1977, an airbourne geophysical survey flown in the Oboshkegan Lake area for Canamax Resources detected three significant AEM anomalies. Forty-five claims were staked to the north of Oboshkegan Lake and geologic, geochemical, VLF-EM and magnetometer surveys were completed over most of the ground. This work identified a pyritic tuffaceous-sedimentary unit carrying "erratic but high" gold values. An additional 32 claims were staked to the west to cover more of the pyritic unit. These additional claims were then examined under a joint venture with Hollinger-Argus, who together completed geology, magnetometer and VLF-EM surveys. Nine diamond drill holes totalling 664 m tested a gold showing to the north of Knucklethumb Lake and a number of VLF anomalies.

Sherritt acquired 10 of the present 18 claims in the spring of 1984. Prior to performing a magnetometer survey, the Canamax grid was cleaned and re-chained and a number of fill-in lines were added.

PRESENT WORK

In August of 1984, eight additional claims were tied onto the original group of ten. The Canamax grid was cleaned, re-chained and extended to

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the north boundaries of claims 788301 and 788302. Detailed geology and geochemistry surveys were completed over the gridded portions of the property. Pace and compass surveys were completed over the remainder of the ground.

Samples were collected from most of the outcrops and additional samples from features of interest (quartz veins, shears, etc.) so as to obtain a reasonable sample density representative of the geology. A total of 146 samples were collected from within the property; seven of which were duplicates in order to ensure the consistency of the analyses.

GENERAL GEOLOGY

The rocks in the Tashota Area are an assemblage of Archean metavolcanics and minor metasediments. They have been intruded by several felsic bodies (Elbow Lake, Robinson Lake and Gzowski Lake Stocks) as well as pegmatitic and aplitic dikes and Lake Precambrian diabase dikes.

Felsic pyroclastic rocks dominate within Sherritt's property and account for approximately 75% of the total exposed outcrop.

FELSIC METAVOLCANICS

The majority of felsic rocks within the property appear to be of rhyodacitic composition. Rhyolitic rocks dominate only in the extreme

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western portion of the property. The rhyodacitic rocks are dark grey to dark brown on fresh surfaces and buff to light pink on weathered surfaces. Rhyolitic rocks are light grey to nearly white on fresh surfaces and buff on weathered surfaces.

Most of the felsic rocks contain quartz 'eyes' which appear to be primary. They are generally subangular, occasionally subrounded and average 2 to 3 mm in diameter but can range up to 7 mm in diameter. They commonly constitute 10% of the rock by volume and occasionally as much as 25%.

Subhedral to euhedral feldspar grains are also common and constitute roughly 15 to 25% of the rock. Most of the feldspar crystals are 1 to 3 mm in diameter but can be as large as 1 cm.

Although the majority of the felsic pyroclastics are crystal tuffs, lapilli tuffs, tuff breccias and pyroclastic breccias are also present. The long axes of clasts are typically 4 to 10 cm but can range from 1 to 25 cm. One bomb measured 0.6 x 1.5 m and was set in a matrix of crystal tuff with no other clasts visible. Clasts are generally lensoid to ovoid, although some of the smaller clasts may be angular. Their long axis:short axis ratio is generally 2:1 but may reach 4:1, indicating intense deformation.

Clasts are usually quite sparse but may locally constitute up to 70% of the rock. They are often nearly impossible to discern as they are essentially of the same composition as the matrix, ie. a feldspar-quartz porphyry with an aphanitic matrix. In some cases, they are only identified because they weather slightly lower than the matrix or the foliation of the matrix 'flows' around the clasts. As a result, more

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fragmental rocks may be present than is apparent.

Chloritization of the felsic volcanics is common and widespread and is quite prominent in sheared rocks. An outcrop at L20+20W, 0+45S contains numerous chlorite seams along shear planes. Mild carbonatization is relatively common and can locally be intense, especially in the more sheared rocks. It is often present as milky white calcite concentrated along schistosity and foliation planes and on fracture surfaces. Sericite is also common and again is most prominent in sheared rocks.

A NNE trending zone of intense silica-sericite alteration appears to cross-cut stratigraphy in the western part of the property. The zone is a rhyolitic sericite schist containing lenses and masses of highly siliceous, aphanitic rock. The siliceous bodies carry up to 25% fine grained to blebby and disseminated pyrite and pyrrhotite. Outcrop surfaces are heavily gossaned and intense iron staining occurs along fracture and shear planes. Quartz eyes, which are conspicuous in most of the other felsic rocks, are less obvious in the alteration zone and are absent in the most intensely altered rocks. Aside from the occasional quartz grain, the pyroclastic nature of rocks within the alteration zone is not apparent.

Felsic rocks found elsewhere on the property are often iron stained along fracture and foliation planes and may contain minor ($\approx 1\%$) fine disseminated pyrite.

MAFIC METAVOLCANICS

Mafic volcanics are only exposed in the NW corner of claim 784355 and in

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the most northerly part of the claim group.

Mafic rocks within claim 784355 are chlorite schist. They are iron stained, contain approximately 1% fine disseminated pyrite and are carbonatized. The schists are oriented at 106/85N and contain abundant quartz stringers along foliation planes.

Mafic rocks in the northern part of the claim group occur as fine grained, chloritic, moderately carbonatized basalts and as porphyroblastic basalts containing clots of amphibole up to 5 mm in diameter. The porphyroblastic variety is chloritic, generally contains about 1% fine disseminated pyrite and is locally magnetic. The nature of the amphibole porphyroblasts is uncertain.

An exposure of chlorite schist was noted in a small overburden trench in the SW sector of claim 788302. Two exposures of chlorite-amphibole schist were identified further to the north.

INTRUSIVE ROCKS

Small mafic dikes were found at two locations; L17+40W, 3+80S and L8+00W, 4+50N. The former is aphanitic, dark green on the fresh surface, grey on the weathered surface, quite chloritic and mildly carbonatized. The latter is aphanitic and black on the fresh surface. It is schistose and contains about 1% fine disseminated pyrite. The dike has a width of approximately 1 m and strikes 110°.

Two felsic to intermediate dikes were noted at L19+90W, 0+50N and L16+00W 2+20S. The former is grey on the fresh surface, dark grey on the weathered

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surface and contains numerous fine feldspathic stringers. The dike is at least 1.3 m wide and strikes roughly 130° . The latter is chloritic and carbonatized, is approximately 0.7 m wide and strikes 127° .

STRUCTUARL GEOLOGY

The majority of the rocks within the property are well foliated and contain an E to ESE penetrative fabric. Dips are exclusively to the north at 75 to 85° .

Shearing is common, particularly within the alteration zone. Major shear orientations are coincident with the penetrative fabric. Secondary shears directions trend between 020 and 060° and at approximately 140° .

Limited evidence suggests that two separate structural events may have taken place. An outcrop at L28+60W, 3+80S within the alteration zone is saturated with quartz stringers over a width of about 3 m. The stringers are oriented 050 and 095° with the former set apparently reflecting the later event.

Geophysical evidence suggests the presence of a fault striking roughly 165° through the 'thumb' of Knucklethumb Lake. A second fault is inferred to coincide with a linear depression striking approximately 060° through claims 762783 and 784.

ECONOMIC GEOLOGY

The principal area of interest on the property is the alteration zone

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within claim 762782. The silica-sulphide bodies within the zone are discontinuous but very common and tend to be oriented parallel to the major shear direction.

Several old pits and trenches were noted within the alteration zone. The trenches trace quartz veins having widths of up to 0.4 m and striking roughly 070° . The veins are rusty and sericitic, may contain tourmaline and/or calcite and locally up to 50% pyrite.

Heavily gossaned felsic volcanics were also noted a number of locations outside the alteration zone. Rhyolitic rocks containing 10 to 15% disseminated pyrrhotite were traced across a width of 3 m for a length of roughly 20 m along an 060° strike trend in the vicinity of L24+40W, 5+00S. A small outcrop of gossanous sericite schist was identified near L0+00, 8+00N although no sulphides were visible.

Small lenses of massive sulphide were observed in outcrop at L29+80W, 4+20S and on the 0+00 baseline at L22+00W. Pyrite occurs at both locations and in the latter case, the lens is 25 cm wide with an apparent strike of 011° . The host rock is a highly silicified, slightly chloritic felsic volcanic.

A boulder of massive pyrite was also noted in one of the overburden trenches in the SW part of claim 788302 suggesting that massive sulphides are also present in this region of the property.

Other pits within 788302 also contain rocks of interest. One pit hosts a silicified felsic volcanic containing 10 to 15% disseminated pyrite and pyrrhotite. A quartz vein having a minimum width of 25 cm occurs in a

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pit located approximately 15 m to the east. The vein hosts 5% disseminated pyrite and pyrrhotite and trace blebby chalcopyrite and sphalerite.

RECOMMENDATIONS

With the completion of the detailed mapping and geochemical sampling program, the next step would be to carry out a detailed soil sampling survey to determine if the mineralized alteration zone extends east under the swamp. Additional litho-geochemical sampling may prove useful although a reasonable sampling density was attained in the past survey.

Since several areas of mineralization were located to the east, these locations should also be examined in greater detail.

Submitted September, 1984



Vincent Scime
Senior Project Geologist

for Kevin Thomson

qu al. 2.2506

SHERRITT GORDON MINES LIMITED

REFERENCES

Amukun, S.E.

1977: Geology of the Tashota Area, District of Thunder Bay;
Ontario Geological Survey Report 167, 90p. Accompanied
by Map 2354.

Magnetometer Survey Map by Phantom Exploration Services Ltd.
March 1984.



Ministry of
Natural
Resources

Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

LAND 1

173



42L04NE0085 2.8202 OBOSHKEGAN

WFS04-175 The l

900

Type of Survey(s) GEOLOGY	Township or Area OBOSHKEGAN LAKE AREA (6-173)
Claim Holder(s) RODNEY KNAPPETT	Prospector's Licence No. A-40026 A35220
Address 157 Jeffcoat Drive, Rexdale, Ont. M94 3C4	
Survey Company SHERRITT GORDON MINES LIMITED	Date of Survey (from & to) 12 08 84 07 09 84 Total Miles of line Cut nil
Name and Address of Author (of Geo-Technical report) Kevin Thomson P.O. Box 723, Dryden, Ontario P8N 2Z4	

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

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

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

Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
TB	762782				
	762783				
	762784				
	762786				
	762787				
	762788				

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MAY 7 - 1985

MINING LANDS SECTION

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

6

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 = Total Days Credits

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

For Office Use Only

Total Days Credits Recorded	Date Recorded	Mining Recorder
120	APRIL 29, 1985	Gudrun M. Thompson
	Date Approved as Recorded	Agency Director
	85-08-26	K. Pickett

Date April 25/85

Recorded Holder or Agent (Signature) *Vincent Scime*

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying
**VINCENT SCIME
P.O. Box 723, Dryden, Ont. P8N 2Z4**

Date Certified **April 25/85**

Certified by Signature! *Vincent Scime*

LAND MANAGEMENT

2.8202

July 4th



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

192.

Instructions: - 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.
- Do not use shaded areas below.

W.P. 509-192

File 784355
The Mining Act

Type of Survey(s) GEOLOGY		Township or Area TWP
Claim Holder(s) SHERRITT GORDON MINES LIMITED		OBOSEKEGAN LAKE AREA (G-173) Prospector's Licence No. T-842
Address P.O. Box 28, Commerce Court West, TORONTO, Ontario M5L 1B1		
Survey Company SHERRITT GORDON MINES LIMITED	Date of Survey (from & to) 12 08 84 07 09 84 Day Mo. Yr. Day Mo. Yr.	Total Miles of line Cut nil
Name and Address of Author (of Geo-Technical report) Kevin Thomson, P.O. box 723, Dryden, Ontario P8N 2Z4		

Credits Requested per Each Claim in Columns at right

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

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

Airborne Credits	Electromagnetic	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Magnetometer	
	Radiometric	
	(Empty row for additional entries)	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.
Prefix	Number	
TB		
	784355	
	784356	

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MAY 21 1985
MINING LANDS SECTION

Expenditures (excludes power stripping)

Type of Work Performed
Performed on Claim(s)

Total Expenditures	÷	15	=	Total Days Credits
\$ <input type="text"/>				<input type="text"/>

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

Total number of mining claims covered by this report of work. 2

Date April 25/85	Recorded Holder or Agent (Signature) <i>Vincent Scime</i>
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For Office Use Only

Total Days Cr. Recorded 40	Date Recorded MAY 15, 1985	Mining Recorder <i>Judith M. Hargreaves</i>
	Date Approved as Recorded 85-08-26	Branch Director <i>R. Pickett</i>

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

Name and Postal Address of Person Certifying VINCENT SCIME P.O. Box 723 DRYDEN, ONT. P8N2Z4		Date Certified Apr 25/85	Certified by (Signature) <i>Vincent Scime</i>
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Aug 85



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

2.8202
235
File 773614
The Mining Act

- Instructions: - 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.
- Do not use shaded areas below.

Type of Survey(s) **GEOLOGY** Township or Area **Oboshkegan Twp G-173**
Claim Holder(s) **Sherritt Gordon Mines Ltd** Prospector's Licence No. **T-842**
Address **P.O. Box 723, Dryden, Ontario P8N 2Z4**
Survey Company **Sherritt Gordon Mines Ltd** Date of Survey (from & to) **12/08/84** to **07/09/84** Total Miles of line Cut **N/A**
Name and Address of Author (of Geo-Technical report) **Kevin Thompson (address as above)**

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

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

Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic Magnetometer Radiometric	Days per Claim

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
TB	773614				
	773615				
RECEIVED JUN 19 1985 MINING LANDS SECTION UNDERWAY MINING DIVISION JUN 11 1985					

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$	+	15	=	Total Days Credits
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Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **2**

Date **JUNE 5, 1985** Recorded by or Agent (Signature) *Vincentine*

Total Days Cr. Recorded 40	Date Recorded JUNE 11, 1985
Date Approved as Recorded <i>See reversed statement</i>	

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying **VINCENT SCIME**

P.O. Box 723, DRYDEN ONT. P8N 2Z4

Date Certified **JUNE 5, 1985** Certified by (Signature) *Vincentine*

Recorded Holder	SHERITT GORDON MINES LTD
Township or Area	OBOSHKEGAN TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<p>Geophysical</p> <p>Electromagnetic _____ days</p> <p>Magnetometer _____ days</p> <p>Radiometric _____ days</p> <p>Induced polarization _____ days</p> <p>Other _____ days</p> <p>Section 77 (19) See "Mining Claims Assessed" column</p> <p>Geological _____ 13 _____ days</p> <p>Geochemical _____ days</p> <p>Man days <input type="checkbox"/> Airborne <input type="checkbox"/></p> <p>Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims.</p> <p><input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.</p>	<p>TB 773614-615</p>

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

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

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



Ministry of
Natural
Resources

Aug 13/85

1985 07 29

Your File: 235
Our File: 2.8202

Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

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

D. Isherwood:mc

Encls.

cc: Sherritt Gordon Mines Ltd
P.O. Box 723
Dryden, Ontario
P8N 2Z4
Attention: Vincent Scime

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

*Ray didn't
sign the
two approvals
also in this file.
Shame, shame.*



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1985 07 29

2.8202/235

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.

June 24, 1985

File: 2.8202

Rodney Knappett
157 Jeffcoat Drive
Rexdale, Ontario
M9W 3C4

Dear Sir:

Subject: Geological Survey submitted
on Mining Claims TB 762782,
et al, in the Township of
Oboshkegan

Enclosed are the maps in duplicate for the above-mentioned survey. In order to complete your submission for assessment, please plot the nature of the overburden in areas of no outcrop.

Please forward the above information, in duplicate, to this office quoting file 2.8202.

For further information, please contact Doug Isherwood 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

D. Isherwood:mc

cc: Mining Recorder
Thunder Bay, Ontario
cc: Sherritt Gordon Mines Limited
P.O. Box 723
Dryden, Ontario
P8N 2Z4
Attention: V. Scime

Encl.

1985 08 26

Your File: #235
Our File: 2.8202

Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

RE: Notice of Intent dated July 29, 1985
Geological Survey on Mining Claims
TB 773614, et al, in Oboshkegan Township

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

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

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

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

D. Isherwood:mc

cc: Sherritt Gordon Mines Ltd
P.O. Box 723
Dryden, Ontario
P8N 2Z4
Attention: Vincent Scime

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

cc: Resident Geologist
Thunder Bay, Ontario

Encl.

Mining Lands Section

File No **28202**

Control Sheet

TYPE OF SURVEY GEOPHYSICAL
 ✓ GEOLOGICAL
 GEOCHEMICAL
 EXPENDITURE

MINING LANDS COMMENTS:

*Claims 773614-615 ~~will~~ filed for ^{later} cut back ~~of~~ ~~by~~ ~~the~~
due to water coverage*

RECEIVED

OCT 08 1985

MINING LANDS SECTION

*LD
Lgd.*

Pong
Signature of Assessor

27/7/85
Date



June 6, 1985

Mr. S.E. Yundt
Land Management Branch
Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Mr. Yundt;

Enclosed are duplicate maps and reports for a geologic survey of claims 762782-784, 762786-788, 783614,615 and 784355,356 in Oboshkegan Township in the Thunder Bay Mining Division. Work Reports have been forwarded to the Mining Recorder's Office in Thunder Bay.

In recent months, some correspondence from the Land Management Branch has been forwarded to Sherritt's Corporate Office in Toronto rather than to the Field Office here in Dryden. The Dryden office is solely responsible for property maintenance and any correspondence sent to the Toronto office (particularly Notices of Intent) can cause administrative problems here. In the future, please forward all correspondence to the Dryden Field Office.

Sincerely yours;

A handwritten signature in black ink, appearing to read "Vincent Scime".

Vincent Scime
Senior Project Geologist

62

TB762782

✓

83

✓

84

✓

86

✓

87

✓

88

✓

784355

✓

56

✓

773614

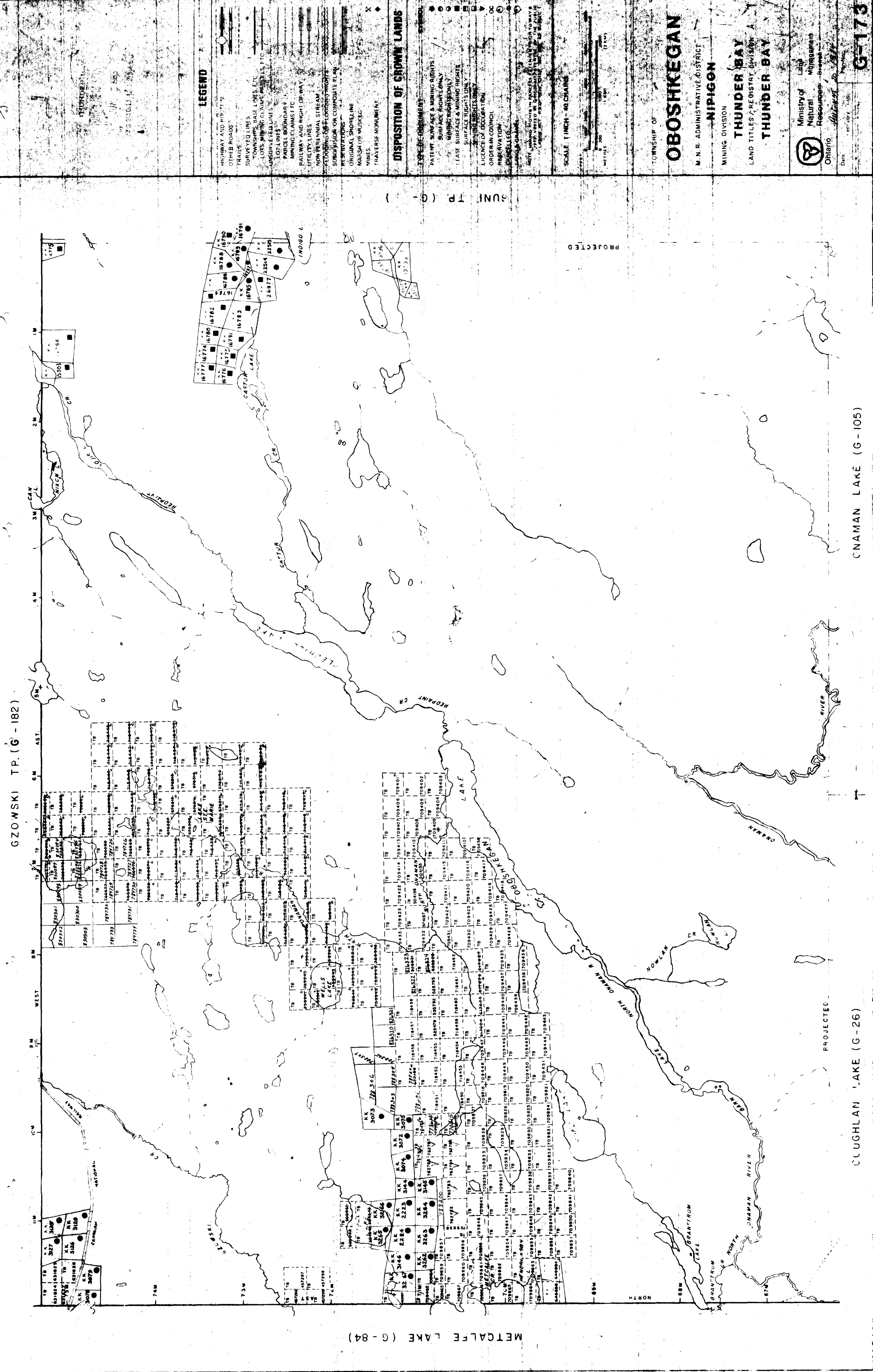
 $\frac{1}{4}$

15

 $\frac{3}{4}$

R-113

R-113



NOTES

LEGEND

- Highway and Highways
- Other Roads
- Unimproved Lands
- Township Base Lines, ETC.
- Lot Lines
- Unimproved Lots
- Price Boundary
- Mineral Claims
- Mineral Rights
- Non-Residential Stream
- Subdivision or Composite Plan
- Reservations
- Original Shoreline
- Marsh or Muskeg
- Wines
- Traverse Monument

DISPOSITION OF CROWN LANDS

- Surface Rights
- Surface & Mining Rights
- Surface Rights Only
- Lease Surface & Mining Rights
- Surface Rights Only
- License of Occupation
- Order-in-Council
- Reservation
- Other

SCALE 1 INCH = 40 CHAINS

TOWNSHIP OF OBOSHKEGAN

M. H. R. ADMINISTRATIVE DISTRICT NIPIGON

MINING DIVISION

THUNDER BAY

LAND TITLES REGISTRY DIVISION

THUNDER BAY

Ministry of Natural Resources
 Ontario
 Date: _____

G-173

R-113

R-113



MAFIC METAVOLCANICS

- 1 Unsubdivided
- 1a Massive Flows
- 1b Chlorite Schist
- 1c Medium to Coarse Grained Amphibolite

FELSIC TO INTERMEDIATE METAVOLCANICS

- 2 Unsubdivided
- 2a Tuff
- 2b Lapilli Tuff
- 2c Tuff Breccia
- 2d Pyroclastic Breccia
- 2e Sericite Schist

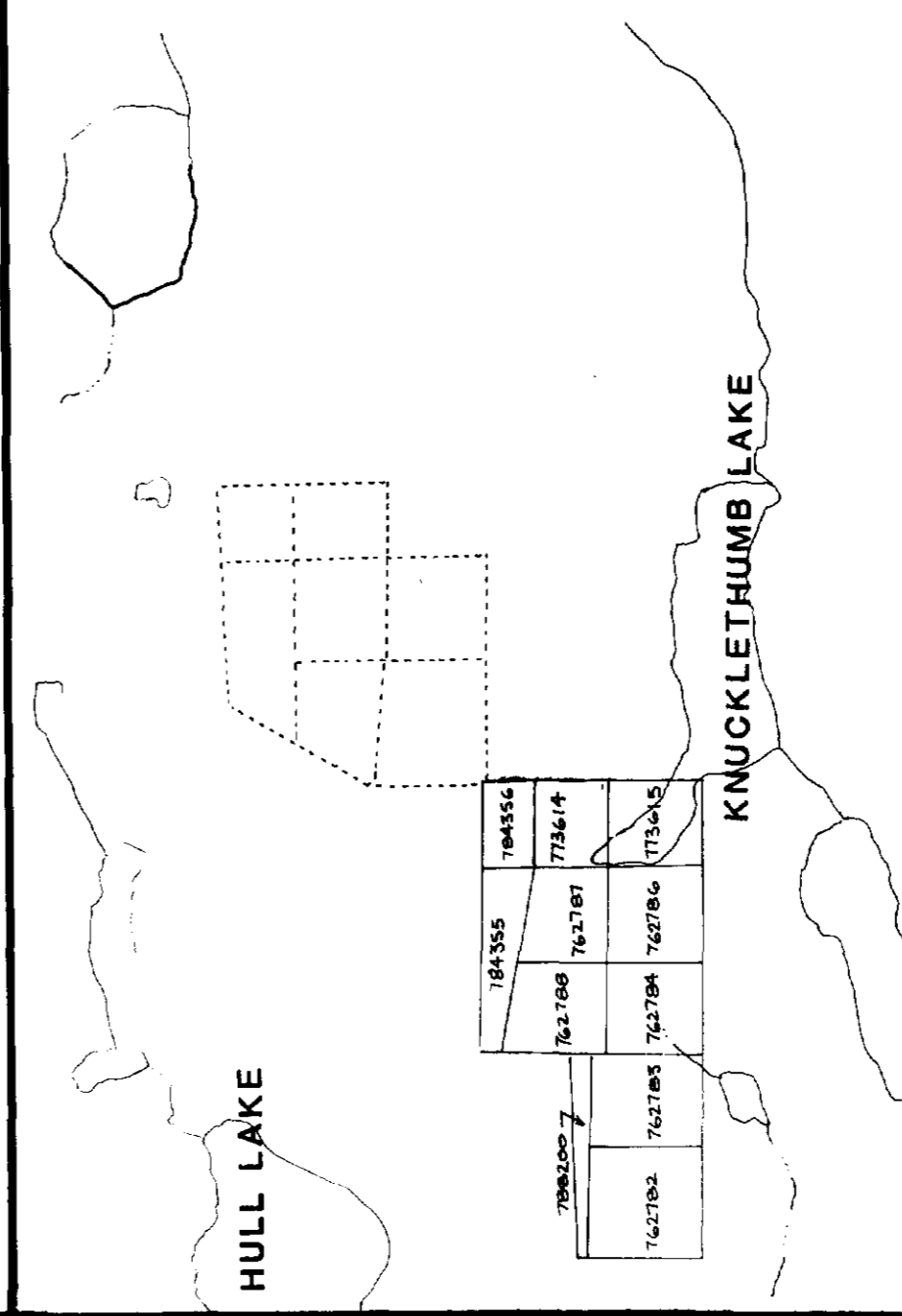
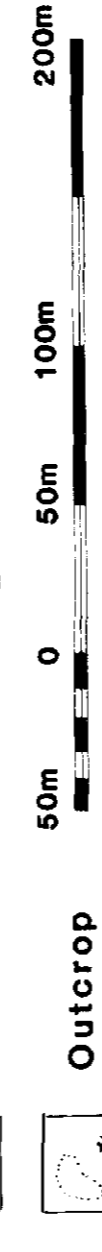
MAFIC INTRUSIVES

- 3 Mafic Dike

FELSIC TO INTERMEDIATE INTRUSIVES

- 4a Felsic to Intermediate Dike

- Foliation
- Schistosity
- Jointing
- Shearing, Assumed Fault
- Assumed Contact
- Outcrop
- Mineral Occurrence
- Quartz Vein
- Trench
- Swamp
- Claim Post



SHERRITT GORDON MINES LTD.

DRYDEN ONTARIO

KNUCKLETHUMB LAKE

GEOLOGY

AREA: G-173	PROJECT: 1798
NTS: 42L-4NE	SCALE: 1 TO 2500
DATE: August 1984	UPDATE: April 85
DRAWN BY: D. BELMARTZ	

