

LAKE

010

STURGEON LAKE PROPERTY

## PROSPECTING AND GEOPHYSICAL

REPORT

FOR

EQUATOR MINING CORPORATION

VANCOUVER, BRITISH COLUMBIA

BY

MAJOR MANAGEMENT EXPLORATION SERVICES SASKATOON, SASKATCHEWAN FEBRUARY 19,1996 2.16564

W9630.00022/.00038

# MAJOR management exploration services

Robert J. Major President

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March 5, 1995

1995 EXPLORATION PROGRAM

Prospecting, Trenching, Sampling and Ground Geophysics

was carried out

By: Major Management Exploration Services 385 - 302 Kingsmere Blvd. Saskatoon, Sask. S7J 4J6

> For: Equator Mining Corporation 201 - 110 Cambie St. Vancouver, BC V6B 2M8

 $\mathcal{C}_{\mathcal{N}}$ Major Robert President



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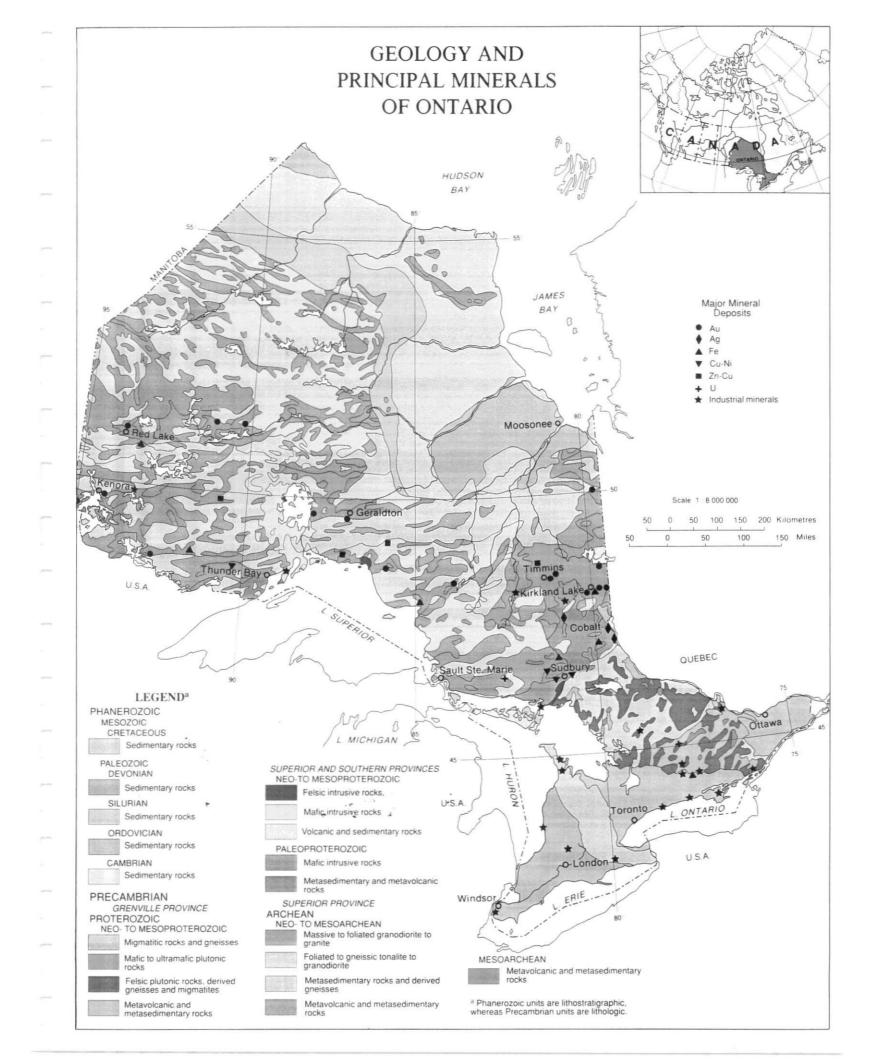
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## 1.0 INTRODUCTION

This report describes the 1995 Equator Mining Corp. exploration program on claims: 1162859, 1162887, 1124734, 1124735, 1124731, 1134732, and 1162888 in the Sturgeon Lake area of Ontario. The property was acquired by Equator Mining Corp. to explore for economic gold deposits.

## 1.1 1995 EXPLORATION PERSONNEL

R.	Major	Saskatoon, Sask.	Project supervisor
Ε.	Barkaskus	Sioux Lookout, Ont.	senior prospector
Β.	McKilroy	Ignace, Ont.	senior prospector
Β.	Major	Saskatoon, Sask.	junior prospector
۷.	Cook	Stanley Mission, Sask.	geophysical operator
Н.	Ratt	La Ronge, Sask.	line cutter
Н.	Cook	Stanley Mission, Sask.	line cutter

## 1.2 EXPLORATION SERVICE AND SUPPORT

Technical Services Laboratories	Saskatoon, Sask.
IGA	Sioux Lookout, Ont.
Whiskeyjack Lodge	Savant Lake, Ont.

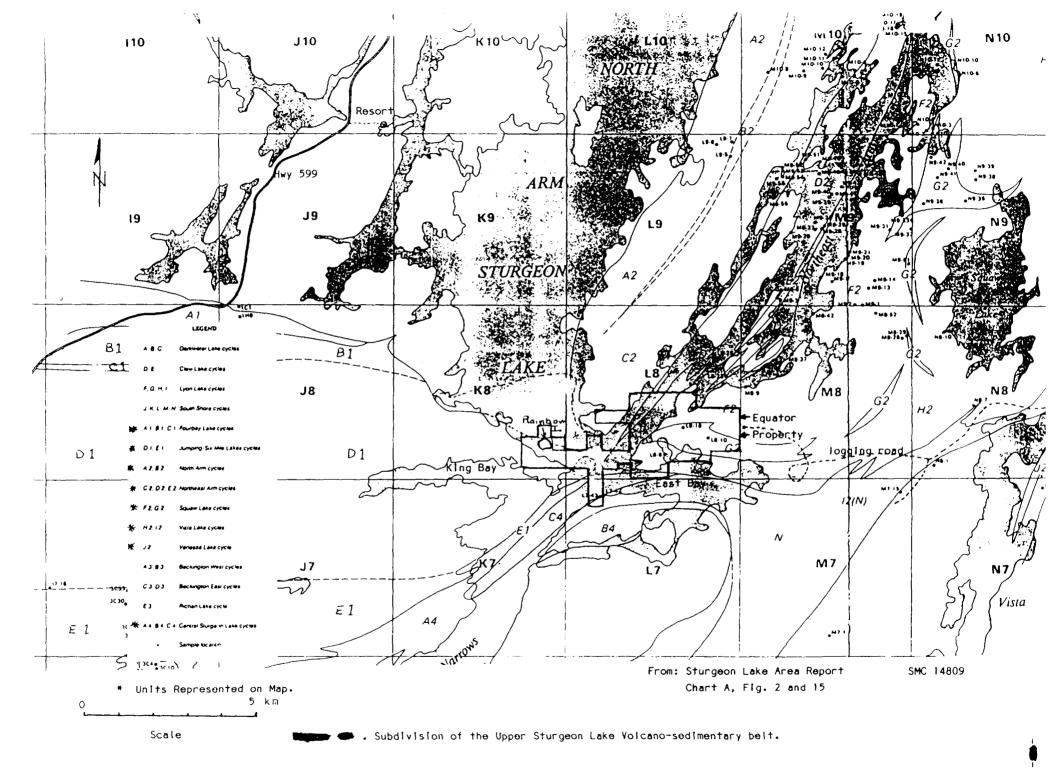
## 2.0 LOCATION AND ACCESS

The property is located adjacent to and immediately north of the east end of East Bay on Sturgeon Lake Ontario. The claims are outlined on Ontario Ministry of Natural Resources, Squaw Lake Map Sheet Number G-3140. Access to the property is by boat or snow machine from Whiskeyjack Landing on Sturgeon Lake. The nearest townsite is Savant Lake approximately 15 miles north of Whiskeyjack Lodge.

## 3.0 PROPERTY AND OWNERSHIP

The property consists of 38 claims owned 100% by Equator Mining Corp. The claims are as follows:

CLAIM_NUMBER	RECORDING_DATE
1162859	Feb. 13/95
1162887	June 23/95
1124734	
1124735	
1124731	



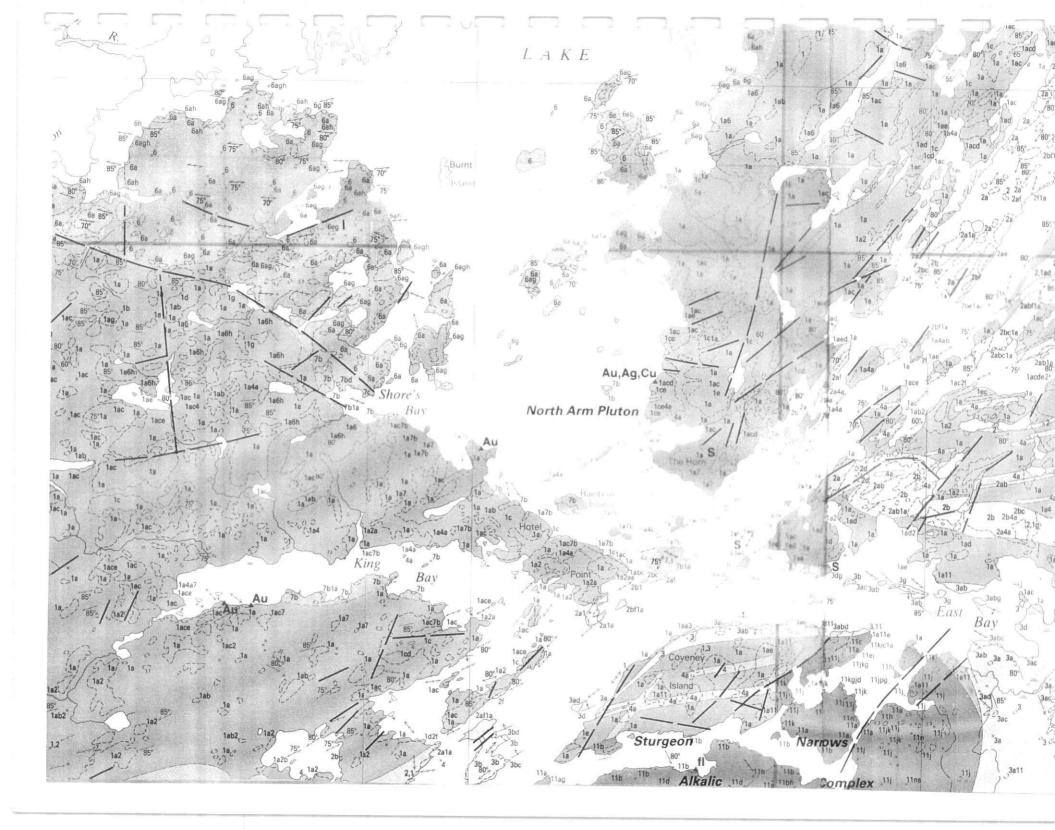
CLAIM NUMBER	RECORDING DATE
1134732	
1162888	June 23/95
1039270	
896060	Aug. 12/86
896062	Jan. 05/87
896063	Jan. 05/87
1047744	Feb. 22/89
1068213	May 20/88
1150291	Jan. 27/95
1150292	Jan. 27/95
1162852	Nov. 21/94
1162853	Nov. 21/94
1162854	Nov. 21/94
1162855	Nov. 21/94
1162856	Nov. 21/94
1162857	Nov. 21/94
1162858	Jan. 27/95
1162859	Feb. 13/95
1162861	Jan. 17/95
1162862	Jan. 17/95
1162863	Jan. 17/95
1162864	Jan. 17/95
1162865	Feb. 09/95
1162883	June 23/95
1162884	June 23/95

CLAIM NUMBER	RECORDING DATE
1162885	June 23/95
1162886	July 06/95
1162887	June 23/95
1162888	June 23/95
1162889	June 23/95
1162890	July 06/95
1162891	July 06/95
1162911	Aug. 01/95
1162912	Aug. 01/95
1162913	Aug. 01/95
1162914	Aug. 03/95
1162916	July 21/95
1162917	July 21/95
1162918	July 21/95
1162919	July 21/95
1162980	Sept.26/95

## 4.0 PHYSIOGRAPHY

The area lies within the drainage systems of the English and Sturgeon Rivers. Sturgeon Lake is 409 meters above sea level and the maxium local relief is approximately 500 beters above sea level. Greater relief can occur along the faulted contact between the eastern granitic complex and the metasedimentary - metavolcanic belt. This contact marks a river system divide with the waters to the west flowing into Lake Winnipeg and the waters to the east flowing into the Albany River. The area has been glaciated with deeper lakes occurring within glacially scoured depressions in the bedrock. Outcrop exposure in the area is generally abundant.

Forest cover in the region consists of poplar, balsam, tamarack, birch, jackpine, spruce, poplar and cedar. Trapping of



fur bearing animals is carried out in the Sturgeon Lake area.

## 5.0 GENERAL GEOLOGY

( N.F. Trowell, Ont. Geol. Surv. Rep. 227 )

The Squaw Lake - Sturgeon Lake area occurs within the Wabigoon Belt of the Superior Province of the Canadian Shield. The metavolcanic - metasedimentary sequence of rocks is approximately 12 kilometers wide, 19 kilometers long and is flanked on the east and west by intrusive granitic complexes. The metavolcanic - metasedimentary sequence has been divided into 10 assemblages. These assemblages from west to east are as follows:

Assemblage 1: Intermediate mafic to intermediate volcanics composed of volcanic flows and mafic intrusives.

Assemblage 2: Intermediate to felsic pyroclastic rocks and metasediments. sections are possiblyrepeated by folding or faulting.

Assemblage 3: Carbonate breccia, possibly a Precambrian example of hyaloclastic volcanism.

Assemblage 4: Mafic to intermediate pillowed and amygdaloidal volcanic flows with thin felsic to intermediate pyroclastic units.

Assemblage 5: Intermediate to felsic pyroclastic units.

Assemblage 6: Scattered intercalated units within assemblage 4, possibly caused by the intrusion of the Squaw Lake Alkalic Complex combined with folding.

Assemblage 7: Mafic to intermediate metavolcanics and thin intercalated metasedimentary units.

Assemblage 8: It is the main sedimentary succession in the area and may represent an off - lapping sequence of the above assemblages.

Assemblage 9: Mafic to intermediate mafic volcanics that occur on Coveney Island and extend southward. This assemblage overlies assemblage 8.

Assemblage 10: Amphibolite facies metavolcanics that may represent the oldest assemblage in the area.

The Sturgeon Lake - Squaw Lake volcanic - sedimentary sequence has been deformed by a minimum of three phases of folding and faulting. Faulting is possibly associated with all phases of folding. The large regional fault zones; (The Sturgeon Narrows Fault and the Northeast Arm Fault ) are conformable to initial foliation and stratigraphy. The later faults are transgressive to the regional foliation.

## 6.0 1995 EXPLORATION PROGRAM

The 1995 Equator Mining Corp. exploration program commenced on July 20 and was completed on August 23. Major Management Exploration Services of Saskatoon, Saskatchewan supervised the program. The surface exploration program consisted of line cutting, ground geophysics, prospecting; locating, refurbishing and sampling of old trenches and one old addit was discovered in exploration process.

## 6.1 PROSPECTING

The prospecting traverses, gold showings and associated assay results are shown on MAP #2. Two gold showings and old trenches (A and B) were cleaned off and sampled. A description of the showings are as follows:

## Showing A

This showing is located on the north side of Rainbow Island. The showing consists of an west north west trending mineralized vuggy quartz vein occurring within a granodiorite. The western extension of the quartz vein is transected by a north north east trending diabase dyke. The gold mineralized quartz vein where exposed is approximately 4' in width. Detailed sampling is not possible at the present time due to excessive amounts of very coarse blasted rubble covering the trench. Samples taken from the showing range from 100 ppb to 340 ppb Au.

### Showing B

This gold showing is located on a small island approximately 2300' south east of Showing A. The sulphides within the quartz vein are strongly oxidized giving the entire exposed area of the quartz vein a red - brown appearance. The gold bearing quartz vein is approximately 2' in width and has a limited exposure of approximately 8' due to the strike extremities extending below the waters of Sturgeon Lake. Samples taken from this showing range from 340 ppb to 540 ppb Au.

#### Showing C

This gold showing is located on the south end of the peninsula that extends into the junction of the North East Arm and the East Bay of Sturgeon Lake; near the south boundary of claim No. 1162854. The long overgrown addit was rediscovered by R. Major while on a prospecting traverse over the peninsula, a small opening was observed on the hill side, surrounded by forest growth. The opening was cleared of bush and debris and revealed a large addit

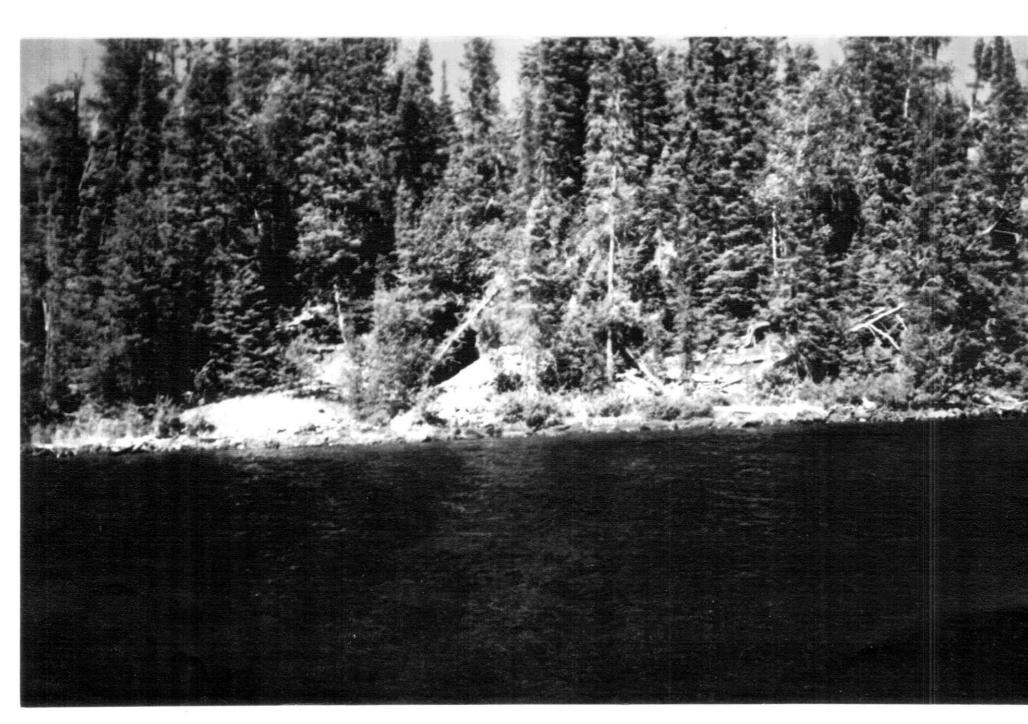
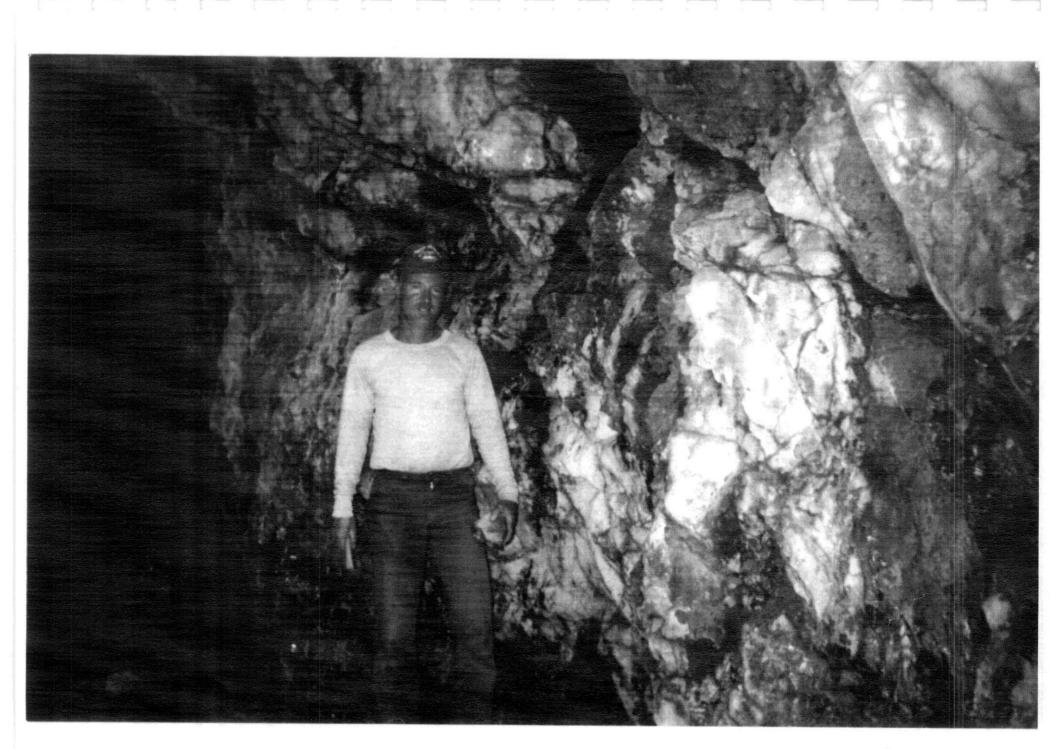
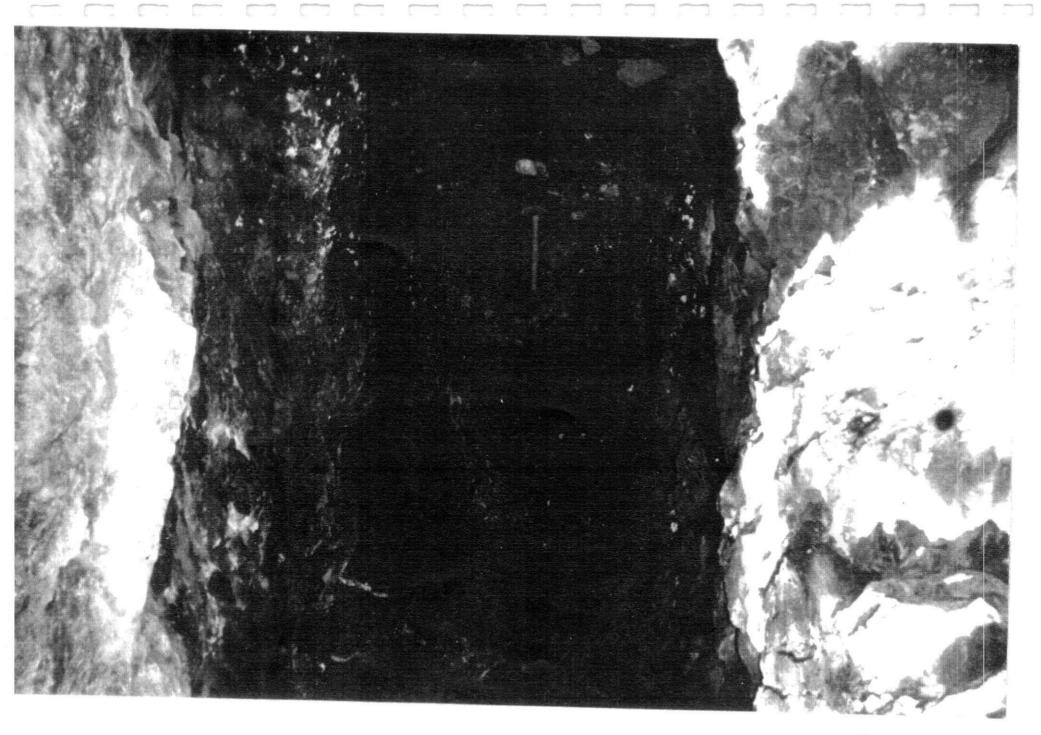




FIG NO. 2





approximately 8' x 8' and some 30' in length. The addit had been collared in a large rusty quartz vein. Subsequent research revealed that this addit was blasted and worked between the years 1898 and 1904. Photos of this discovery are reproduced on Figs. 1, 2, 3, and 4.Samples taken on the east wall of the addit range from 170 ppb Au to 0.210 oz/ton.

#### Showing D

This is a small quartz exposure on the north east corner of a small island approximately 1600' east of Showing B. The quartz vein occurs along the water line and is approximately 1' in width. Strike length is obscured by lake water. Sulphides, including pyrite and pyrrhotite occur within the quartz. Samples taken from this showing range from 210 ppb to 250 ppb Au.

## 6.2 GEOPHYSICS

A 30 kilometer line cutting program was carried out on claims: 1162887, 1162859, 1124731, 1124732,1124734,1124735 and 1162888 (Map # 3) for the purpose of ground control for an EM -16 geophysical survey. The purpose of the geophysical survey was to test for possible gold bearing shear zones. The geophysical instrument used for the survey was a Geonics EM - 16 using the Seattle Washington station. The EM - 16 survey identified five weak east - west trending narrow anomalies (see Map # 3).

## 7.0 CONCLUSIONS

Four gold bearing quartz veins were identified as a result of the prospecting program. Showings A,B,C and D have not been adequately mapped, trenched or sampled to determine if diamond drilling is warranted. The limited exploration by Equator Mines Corp. indicates that these sulphide and gold bearing quartz veins require additional geological investigation.

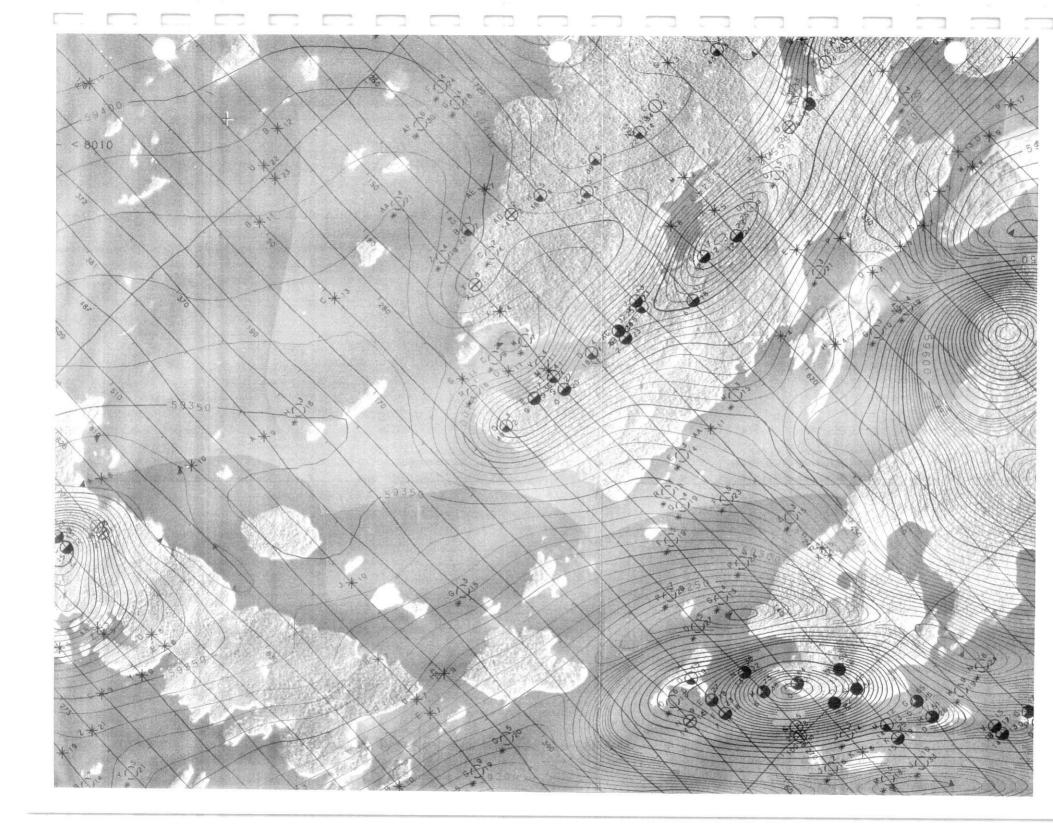
The EM - 16 geophysical survey identified five weak, narrow anomalies, that do not appear to be related to any significant mineralized zones or structures.

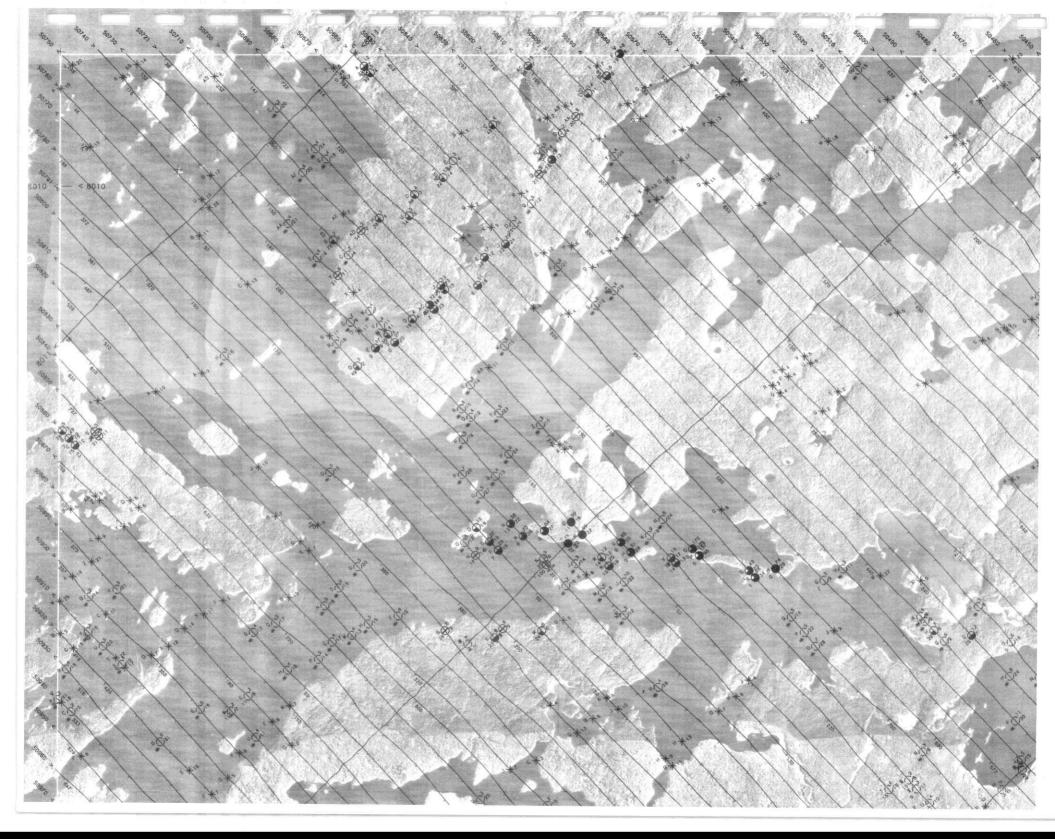
## 8.0 RECOMMENDATIONS

As a follow up to the 1995 summer prospecting program that identified four gold bearing quartz veins of generally unknown dimensions and gold content, additional exploration on the property is recommended. A future mineral exploration program should include some regional geological mapping, detailed mapping of the known showings, trenching of the showings for the purpose of sampling. A grid should be established to cover the entire area hosting the known showings for control of ground magnetic and electromagnetic surveys. The geophysical surveys should be carried out in an attempt to correlate the known gold showings.

## 9.0 REFERENCES

Trowell, N.F. (1983) Geology of the Squaw Lake - Sturgeon Lake Area District of Thunder Bay; Ontario Geological Survey, Report 227.





APPENDIX A

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	<b>2</b> (30		S7K 6A4 AX. (306) 242-4717
	CERTIFICATE OF ANALYSIS		
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SAMPLE(S) OF	ock	INVOICE P.O.:	#: 25008
1020303 1020304 1020302 1020301	Au ppb 35 110 300/340 540/500		
COPIES 7 INVOICE 7	20: W. Martin, B. Major 20: Arista Resources Inc.		, 1

				2 - 302 - 4 SKATOON, SASI 31-1033 FAX: (3	KATCHEWAN S7K 6A4
	CER	TIFICATE OF ANAL	YSIS		
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	D: W. Martin	, B. Major sources Inc.			

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APPENDIX B

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thern Development Mines	Report of Work Conducted After Recording Claim	Transaction Number $W9630.00022$
	Mining Act	
nel Information collected on this form offection should be directed to the F uny, Ontario, P3E 6A5, telephone (70	is obtained under the authority of the Mining Act. This info Provincial Manager, Mining Lands, Ministry of Northern 1 05) 670-7264.	ormation will be used for correspondence. Questions ap- Development and Mines, Fourth Floor, 159 Cedar Stre
- Refer to the Min Recorder.	rint and submit in duplicate ing Act and Regulations for	
- Technical reports	of this form must be comp	-00022 SQUAW LAKE 900
ded Holder(s)	MIN, NG LORD	Client No. SEACIUT
"420-625 HD	JE STEPET VAR &	C. Telephone No. ECO (6-7-CTCC
PINISION	Cill Township/Area Signature 1-AKC	M or G Plan No M 2456
k From: All 6	UST/KI45 TO:	50,130,1405
k Performed (Check One Wo	ork Group Only)	
Work Group	Туре	
Geotechnical Survey		
Physical Work, ncluding Drilling	ACTING SAMPLING PARE	am ETC
Rehabilitation	(W20-PMON/PR	$\Delta SP / ASSAY ) $
Other Authorized Vork		10
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Ministry of Ministère du Northern Development Développement du Nord and Mines et des Mines

P.O. Box 3000 Sioux Lookout, Ontario P8T 1C6

965EP25

Equator Mining Corp. Attention: Walter C. Martin 420 - 625 Howe Street Vancouver, B.C. V6C 2T6

SUBJECT: APPROVAL OF ASSESSMENT WORK FILED ON W9630.00022 AREA OF SQUAW LAKE G-3140, PATRICIA MINING DIVISION

Assessment credits have been approved as follows:

MINING CLAIM #	PERFORMED	APPLIED
Pa. 1068213	\$ 800	\$ 800
Pa. 1150292	\$ 2400	\$ 2400
Pa. 1162852	\$ 800	\$ 800
Pa. 1162853	\$ 1200	\$ 1200
Pa. 1162854	\$ 1800	\$ 1800
Pa. 1162855	\$ 1800	\$ 1800
Pa. 1162856	\$ 800	<b>\$</b> 800
Pa. 1162857	<b>\$ 800</b>	\$ 800
Pa. 1162858	\$ 800	\$ 800
Pa. 1162883	\$ 3600	\$ 3600
Pa. 1162884	\$ 3000	\$ 3000
Pa. 1162913	\$ 3236	\$ 3236
Pa. 1162917	\$ 1200	\$ 1200

This schedule reflects the acceptable costs outlined on the 45 notification submitted on 96MAY22 in the total amount of \$ 22236. These credits have been approved under Section (9) of the Mining Act Regulations.

THE APPROVAL DATE IS 96APR09.

If you have any questions regarding this correspondence, please contact myself at the following numbers.

Yours truly most

Sharon Kemash Acting Mining Recorder Patricia Mining Division TEL: 807:737-2034 FAX: 807:737-1727

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Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

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

#### 1. Direct Costs/Coûts directs

Туре	Description	Amount Montant	Totale Total gioba		
Wages Salaires	Labour Main-d'oeuvre	480			
	Field Supervision Supervision sur le terrain	6300	10 830		
Contractor's and Consultant's Fees	MALICE MAN	5300			
Droits de l'entrepreneur	ASSEM	300			
et de l'axpert- conseil			5,800		
Supplies Used Fournitures utilisées	FILL UIL-	500			
			500		
Equipment Rental	TIMBE 2T	400			
Location de matériel	Tank	1000			
			1,400		
	Total Di Total des col	rect Costs Its directs	18530		

lots: The recorded holder will be required to verify expenditures cleaned 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.

#### **iling Discounts**

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

Old Value of Assessment Credit Total Assessment Claimed × 0.50 =

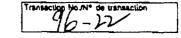
#### ertification Verifying Statement of Costs

#### hereby certify;

at the amounts shown are as accurate as possible and these costs are incurred while conducting assessment work on the lands shown i the accompanying Report of Work form.

Pactrone Moren, Agent, Possian in Compo I am authorized Bt 88

make this certification



Les renseignements personnels contenue dans la présente formule sont recueillis en vertu de la Loi aur les minas et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collece de ces renseignements au chel provincial des terrains miniers, ministere du Développement du Nord et des Mines, 159. rue Cedar, 4<sup>®</sup> stage, Sudbury (Ontario) P3E BAS, téléphone (705) 670-7284.

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

Туре	Descriptio	Amouni Montant	Totais Total globa
Transportation Transport	Туре		
			4
Food and Lodging Nounture et hiberoament	LOOGING POOL EL	1546	4041
Nobilization and Demobilization Mobilisation et démobilisation			
		l of Indirect Coets les coûts Indirects	4091
		1846 of Direct Costs) 20 % des poùts directs	3706
fotal Value of Ass Total of Direct and indirect costs)	Allewable	Valeur Jolale du ortolit d'évaluation (fotal des softe directs et indirects adminuficies	2236

Note : La litulaire enregiairé sers tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si le vérification n'est pas effectuée, le ministre pout rejeter tout ou une partie des traveux d'évaluation présentés.

#### Remises pour dépôt

- 1. Les treveux déposés dans les deux ans suivant leur achévement sont rembourgés à 100 % de la valeur totale susmantionnée 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 celculs ci-dessous.

	Valeur Iotale du crédit d'évaluation	Evaluation totale demandée
1	×	0,50 =
		-

#### 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 terraine indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de je suis autorisé (titutaire emergiane, représentant, poste cocupé dans la compagnie)

à faire cette attestation.

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Nota : Danz cette formule, foraqu'il désigne des personnes, le masculin est utilisé au sens neutre

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1. Credits are to be cut back starting with the claim listed last, working backwards.

2. Credits are to be cut back equally over all claims contained in this report of work.

3. Credits are to be cut back as priorized on the attached appendix.

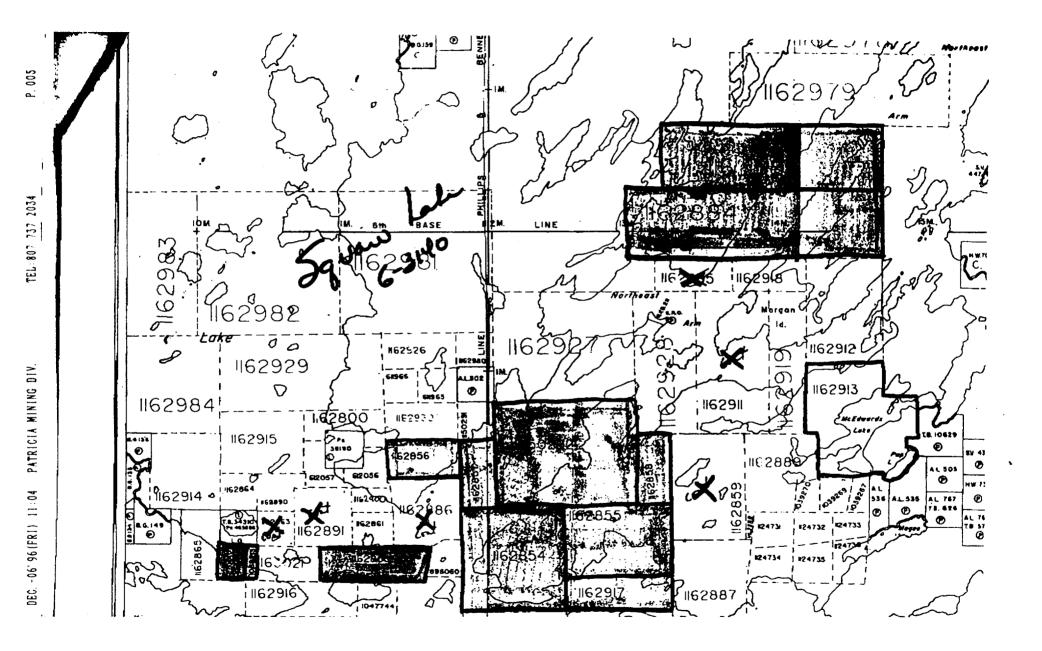
in the event that you have not specified your choice of priority, option one will be implemented.

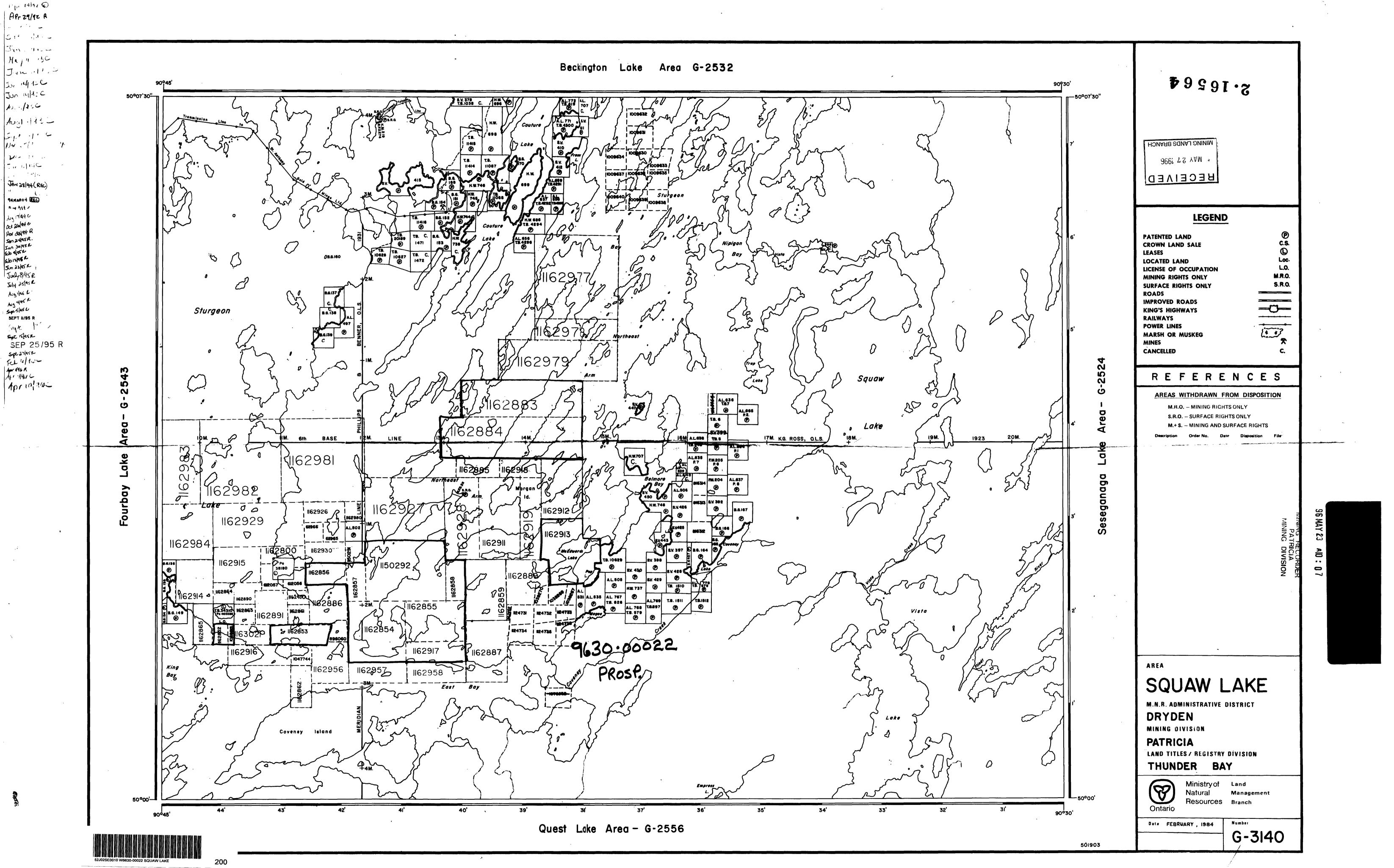
Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or lessed land, please complete the following:

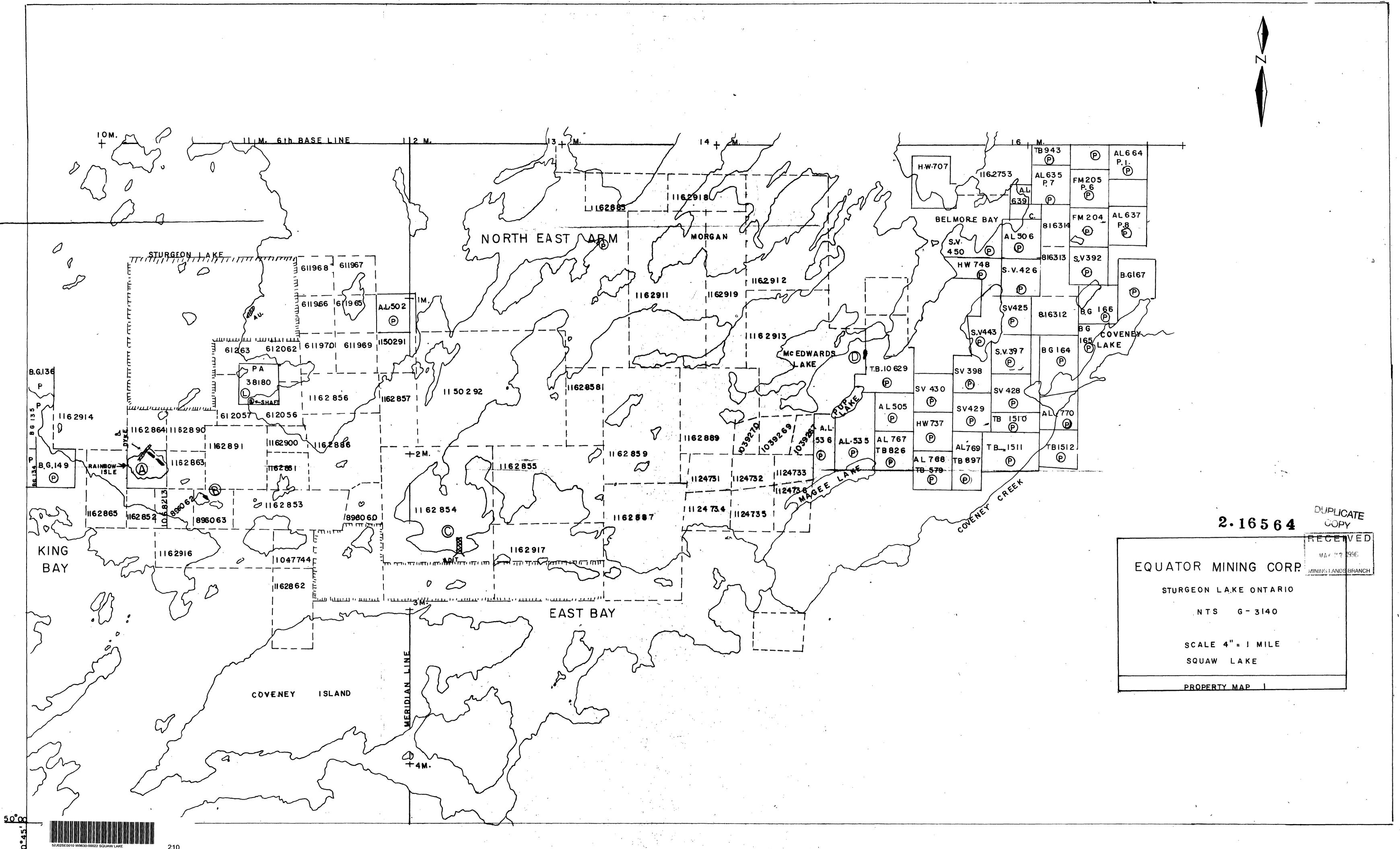
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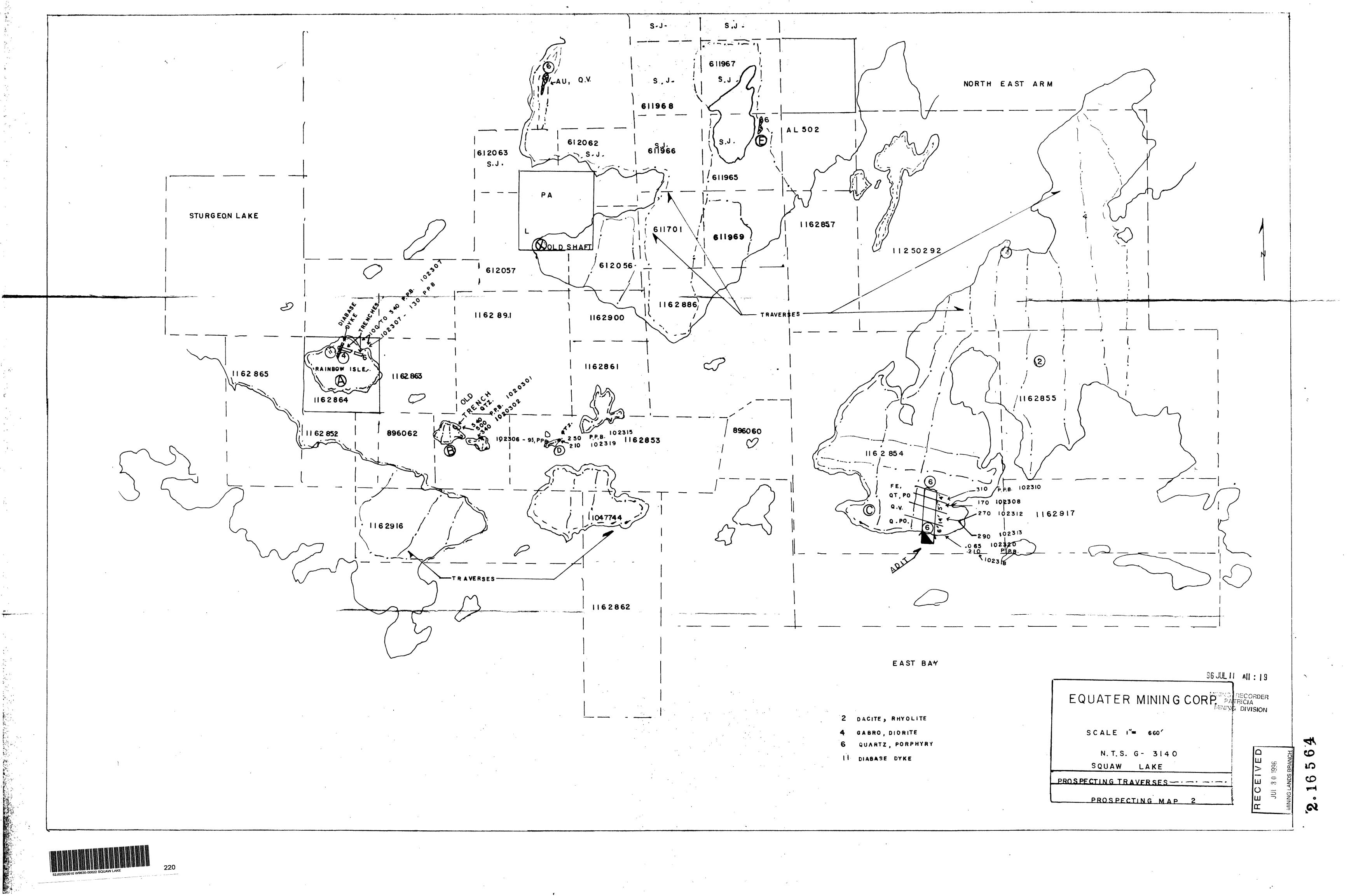
		- 1
i certify that the recorded holder had a penelicial interast in the patented or leased land at the time the work was performed.	Signature	MA





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