

Legend to accompany drill holes							
Code	Description						
BRX	Breccia						
CA	Core Axis						
CM	Centimetres						
CV	Carbonate veinlets						
DIS	Disseminated						
DK	Dark						
ENT	Entire						
EOH	End of Hole						
FGMS	Fragments						
FGR	fine grained						
FOL	Foliated						
GN	Green						
INT	Intrusive						
M	Metres						
MGR	Medium Grained						
MSV	Massive						
MTX	Matrix						
P	Parallel						
PRL	Parallel						
PY	Pyrite						
SBRND	Subround						
T	Talc						
UM	Ultramafic						

ECHO BAY MINES LTD. AQUARIUS PROJECT DIAMOND DRILL LOG

HOLE NO.	45125	
LOGGED BY	M. Seaman	
CONTRACTOR	NDS	
DATE	Dec 4-95	
CORE SIZE	NQ	
PROPERTY	Aquarius	
CLAIM #	512792	
COLLAR COORDINATES		
NORTHING	1025	
EASTING	10300	
ELEVATION		
AZIMUTH	360	
DIP	-60	
UTM EASTING		
UTM NORTHING		
DIP TESTS		
DISTANCE	AZIMUTH	DIP
103	01	61
151	02	61

46 metres south
 134 metres west to Post # 3
 CL P 512792

SUMMARY LOG			
FROM	TO	CODE	ROCK TYPE
0	90	6.0	Avestburden (Casing to 9/m)
90	151	4.0	T/chl
	151	7.0	E046
Samples			
58994 - 58996			
No PAM			
DRILLING STARTED: NOV 28/95			
PULLING COMPLETED NOV 29/95			
CORE STORED AT AQUARIUS SITE			
METRES			

1

Legend to accompany drill holes							
Code	Description						
BRX	Breccia						
CA	Core Axis						
CM	Centimetres						
CV	Carbonate veinlets						
DIS	Disseminated						
DK	Dark						
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PRL	Parallel						
PY	Pyrite						
SBRND	Subround						
T	Talc						
UM	Ultramafic						

2969262 Canada Inc T/A

NDS DRILLING

P.O. Box 2180 - Timmins, Ontario P4N 7X8
 Tel: (705)268-2250 Fax: (705)268-2855

RECEIVED
 Nov 7/95
 FILE COPY

Echo Bay Mines Ltd.
 P.O. Box 130
 Porcupine, Ontario
 P0N 1C0

INVOICE # 000132
 Page 1 of 3
 November 30, 1995
 GST #13860 6033 RT****

From November 15 to November 30, 1995

HOLE #	DESCRIPTION	QTY	PER UNIT	TOTAL	BALANCE
Hole 95-104(cont'd)					
	Cost to cement and pull casing				
	Man hours	6.00	\$ 25.00	\$ 150.00	
	Equipment hours	3.00	\$ 25.00	\$ 75.00	\$ 225.00
Hole 95-105					
	Drill overburden				
	- m to 46.00 m	46.00	\$ 40.00	\$ 1,840.00	
	NW Casing shoe	1.00	\$ 375.00	\$ 375.00	\$ 2,215.00
	Core drilling				
	46.00 m to 149.00 m	103.00	\$ 38.00	\$ 3,914.00	
	Test 56m, 100m, 149m	3.00	\$ 70.00	\$ 210.00	\$ 4,124.00
	Cost to cement and pull casing				
	Man hours	4.00	\$ 25.00	\$ 100.00	
	Equipment hours	2.00	\$ 25.00	\$ 50.00	\$ 150.00
Hole 95-107					
	Drill overburden				
	- m to 55.00 m	55.00	\$ 40.00	\$ 2,200.00	
	NW Casing shoe	1.00	\$ 375.00	\$ 375.00	\$ 2,575.00
	Core drilling				
	55.00 m to 151.00 m	96.00	\$ 38.00	\$ 3,648.00	
	Acid Test 60m, 151m	2.00	\$ 70.00	\$ 140.00	\$ 3,788.00
	Cost of cement and pull casing				
	Man hours	9.00	\$ 25.00	\$ 225.00	
	Equipment hours	4.50	\$ 25.00	\$ 112.50	\$ 337.50

INVOICE # 000132

Page 2 of 3

HOLE #	DESCRIPTION	QTY	PER UNIT	TOTAL
<u>Hole 95-106</u>				
	Drill overburden			
	- m to 52.00 m	52.00	\$ 40.00	\$ 2,080.00
	NW Casing shoe	1.00	\$ 375.00	\$ 375.00
	Core drilling			
	52.00 m to 200.00 m	148.00	\$ 38.00	\$ 5,624.00
	200.00 m to 250.00 m	50.00	\$ 41.00	\$ 2,050.00
	Test 62m, 145m, 250m	3.00	\$ 70.00	\$ 210.00
	Cost to cement and pull casing			
	Man hours	5.00	\$ 25.00	\$ 125.00
	Equipment hours	2.50	\$ 25.00	\$ 62.50
<u>Hole 95-109</u>				
	Drill overburden			
	- m to 47.00 m	47.00	\$ 40.00	\$ 1,880.00
	NW Casing shoe	1.00	\$ 375.00	\$ 375.00
	Core drilling			
	47.00 m to 152.00 m	105.00	\$ 38.00	\$ 3,990.00
	Test 56m, 152m	2.00	\$ 70.00	\$ 140.00
	Cost to cement and pull casing			
	Man hours	6.00	\$ 25.00	\$ 150.00
	Equipment hours	3.00	\$ 25.00	\$ 75.00
<u>Hole 95-108</u>				
	Drill overburden			
	- m to 69.00 m	69.00	\$ 40.00	\$ 2,760.00
	NW Casing shoe	1.00	\$ 375.00	\$ 375.00
	Core drilling			
	69.00 m to 151.00 m	82.00	\$ 38.00	\$ 3,116.00
	Test 79m, 151m	2.00	\$ 70.00	\$ 140.00
	Cost to cement and pull casing			
	Man hours	6.00	\$ 25.00	\$ 150.00
	Equipment hours	3.00	\$ 25.00	\$ 75.00
<u>Hole 95-124</u>				
	Drill overburden			
	- m to 100.00 m	100.00	\$ 40.00	\$ 4,000.00
	NW Casing shoe	1.00	\$ 375.00	\$ 375.00

INVOICE # 000132

Page 3 of 3

HOLE #	DESCRIPTION	QTY	PER UNIT	TOTAL
<u>Hole 95-124(cont'd)</u>				
	Core drilling			
	100.00 m to 152.00 m	52.00	\$ 38.00	\$ 1,976.00
	Test 106m, 152m	2.00	\$ 70.00	\$ 140.00
	Cost to cement and pull casing			
	Man hours	14.00	\$ 25.00	\$ 350.00
	Equipment hours	7.00	\$ 25.00	\$ 175.00
<u>Hole 95-125</u>				
	Drill overburden			
	- m to 94.00 m	94.00	\$ 40.00	\$ 3,760.00
	NW Casing shoe	2.00	\$ 375.00	\$ 750.00
	Core drilling			
	94.00 m to 151.00 m	57.00	\$ 38.00	\$ 2,166.00
	Test 103m, 151m	2.00	\$ 70.00	\$ 140.00
	Cost to cement and pull casing			
	Man hours	9.00	\$ 25.00	\$ 225.00
	Equipment hours	4.50	\$ 25.00	\$ 112.50
<u>Hole 95-126</u>				
	Drill overburden			
	- m to 68.00 m	68.00	\$ 40.00	\$ 2,720.00
	NW Casing shoe	1.00	\$ 375.00	\$ 375.00
	Core drilling			
	68.00 m to 127.00 m	59.00	\$ 38.00	\$ 2,242.00
	Test 77m	1.00	\$ 70.00	\$ 70.00
			Balance	\$ 56,743.50
			GST	\$ 3,972.05
			Balance owing	<u>\$ 60,715.55</u>



Ministry of
Northern Development
and Mines

Report of Work Conducted After Recording Claim,

Mining Act

Transaction Number

W9660.00009

Personal information collected on this form is obtained under the authority of the Access to Information Act. This collection should be directed to the Provincial Manager, Mining Law, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.



42A10SW0051 W9660-00009 MACKLEM

about
tree,

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

900 ng

Recorded Holder(s) Echo Bay Ontario Ltd		Client No. 301427
Address Box 130 Porcupine, Ontario P0N1C0		Telephone No. 268-5858
Mining Division Porcupine	Township/Area MACKLEM	M or G Plan No. 0-3997
Dates Work Performed From: Nov 26, 1995		To: DEC 1, 1995

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	
Physical Work, Including Drilling	DIAMOND DRILLING
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

RECORDED
JAN 03 1996
Receipt

Total Assessment Work Claimed on the Attached Statement of Costs \$ **9600.00**

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

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

Name	Address
NDS DRILLING	Box 2180 - Timmins Ontario

(attach a schedule if necessary)

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

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date Dec 21/1995	Recorded Holder or Agent (Signature)
--	----------------------------	--

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying WILLIAM C KERR - Box 6165 P.M. 5 South ONT Porcupine P0N1C0		
Telephone No. (705) 235-2405	Date Jan 1/1996	Certified By (Signature)

For Office Use Only

Total Value Cr. Recorded 9000	Date Recorded April 7/96	Mining Recorder APR. 7, 1996	Received Stamp 850
	Deemed Approval Date April 7/96	Date Approved (DEEMED)	
	Date Notice for Amendments Sent		



**Statement of Costs
for Assessment Credit**

**État des coûts aux fins
du crédit d'évaluation**

Transaction No./N° de transaction
W9560.00009

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 Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

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

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type DRILLING	9600.00	
			9600.00
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs		9600.00	

2. Indirect Costs/Coûts indirects

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

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)		Valeur totale du crédit d'évaluation (Total des coûts directs et Indirects admissibles)	

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

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

Filing Discounts

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

Total Value of Assessment Credit	Total Assessment Claimed
× 0.50 =	

Remises pour dépôt

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

Valeur totale du crédit d'évaluation	Évaluation totale demandée
× 0,50 =	

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Project Manager Aquarius I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature	Date
	Jan 1, 1996

Ministry of
Northern Development
and MinesMinistère du
Développement du Nord
et des Mines(705) 360-8330
Fax: 360-2001**File: W9660.00009**

October 15, 1996

Mr. William C. Kerr
Echo Bay Ontario Ltd.
Box 130
Porcupine, ON
P0N 1C0

Dear Mr. Kerr:

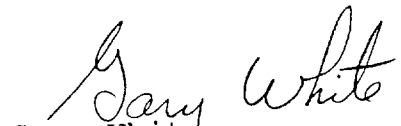
**Subject: APPROVAL OF ASSESSMENT WORK CREDIT ON MINING LAND,
PATENT P-512792 IN MACKLEM TOWNSHIP**

A 45 Day Notification was not issued on this Work Report prior to the 90 day deemed approval date as outlined in subsection 6(7) of the Assessment Work Regulation. Accordingly, this submission is **deemed approved as of April 7, 1996.**

The assessment work credit has been deemed approved under Section 16 (Exploratory Drilling) of the Assessment Work Regulation.

If you have any questions regarding this correspondence, please contact Terry Binkley at (705) 360-8338.

Yours sincerely,


Gary White
Mining Recorder
Porcupine Mining Division

/tb

cc: Ron Gashinski, Senior Manager, Mining Lands

MAP SYMBOLOLOGY

Aerial Cableway	Pipeline (above ground)
Boundary (International)	Railroad
Boundary (District/ Township Index Reserve)	Single Track
Boundary (Approximate)	Double Track
Boundary (Lot, Concession, Approximate)	Abandoned
Boundary (Park Boundary)	Terrace
Boundary (Mileage, County, Township)	Road
Boundary (Access (road of doubtful importance or significant driveway))	Highway, County, Township
Bridge	Access (road of doubtful importance or significant driveway)
Building	Trail, Bush Road (Dotted Line)
Chimney	Rapids
Cliff, Pit, Pile	Double line river with multiple rapids
Contours	Double line river with multiple rapids
Interpreted	Reservoir
Approximate	River, Stream, Canal
Control Points	Approximate
Horizontal	Section
Vertical	Direction of flow
0.077600	Flow
0.300.02	Flow
Culvert	Spot Elevation (above sea level)
Falls	Tower
Double line river	Transmission Line
Fence, Hedge, Wall	Power
Feature Outline (Contour, Feature, etc.)	Tunnel
Flooded Land	Utility Poles
Lock	Wharf, Dock, Pier
Marsh or Swamp	Wooded Area
Moat	
Mine Head Frame	
Outcrop	

AREAS WITHDRAWN FROM DISPOSITION

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

Description Order No. Date Disposition File No.

EXPLORATORY LICENSE OF OCCUPATION #4920
 ISSUED JULY 06, 1989 ORDER #0-P-5/89-NR

- (M) - SITE PREPARATION 06/02/83, 77094 V/6
- (F) - SURFACE AND MINING RIGHTS WITHDRAWN FROM PROSPECTING, STAKING OUT, SALE OR LEASE BY ORDER NO. W.P.-36/93 NCR DATED SEPT. 27, 1993 SECTION 35, THE MINING ACT, R.S.O. 1990 (FOREST TEST PLOTS)
- (N) THIS TWP. IS SUBJECT TO FOREST ACTIVITY IN 1994/95 FURTHER INFORMATION AVAILABLE ON FILE.

SAND AND GRAVEL

- (A) AGGREGATE PERMIT - ISSUED AUG.5/88
- (B) AGGREGATE PERMIT - ISSUED FEB.9/89
- (C) AGGREGATE PERMIT - ISSUED NOV.21/90
- (D) AGGREGATE PERMIT - ISSUED SEPT.21/91

CODY TWP.

HAWK LAKE

LAKE

GERMAN TWP.

WORK PERFORMED

WORK DISTRIBUTED

NO OPEN GROUND

THOMAS TWP.

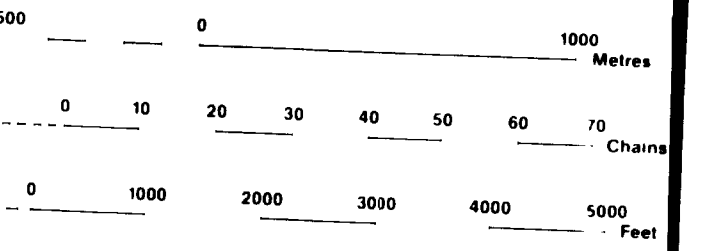
LEGEND

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

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	◑
SURFACE RIGHTS ONLY	◒
MINING RIGHTS ONLY	◓
LICENSE OF OCCUPATION	◔
ORDER IN COUNCIL	◕
RESERVATION	◖
CANCELLED	◗
SAND & GRAVEL	◘

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1912 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 300, SEC. 63, SUBSEC. 1



SCALE 1:20 000
 GRID ZONE 17

Reserve flooding rights on Night Hawk Lake to Ontario Hydro to elevation 903.5', T.6 N.D.Ry. datum.



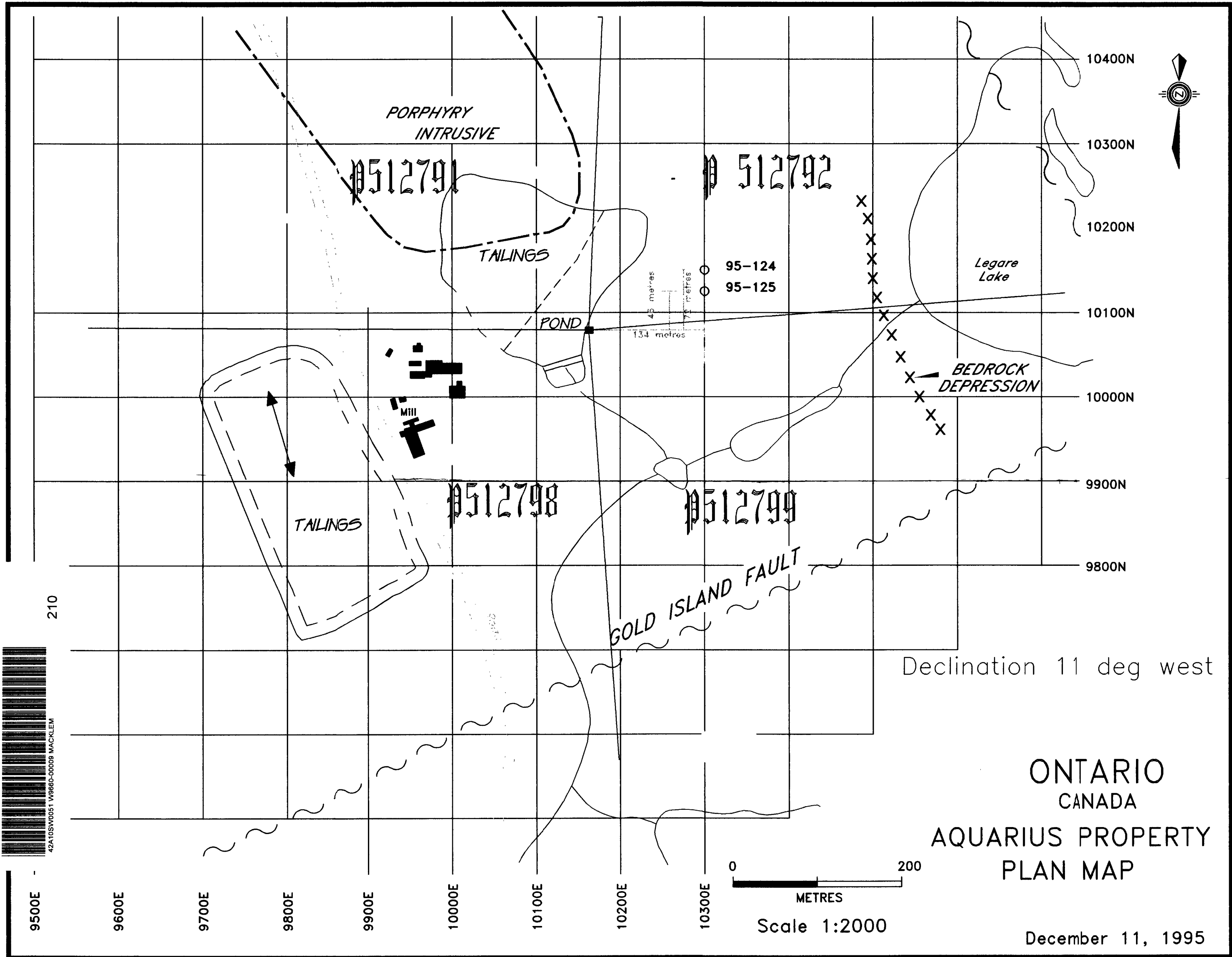
THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

TOWNSHIP
MACKLEM
 M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
 MINING DIVISION
PORCUPINE
 LAND TITLES / REGISTRY DIVISION
COCHRANE

Ministry of Natural Resources
 Land Management Branch
 Ontario

ORIGINAL COMPILED JULY 1984
 REVISED BY D.C.
 ACTIVATED APRIL 13/93
 Number
G-3997





210

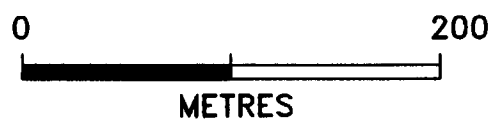


9500E 9600E 9700E 9800E 9900E 10000E 10100E 10200E 10300E

10400N
10300N
10200N
10100N
10000N
9900N
9800N

Declination 11 deg west

ONTARIO
CANADA
AQUARIUS PROPERTY
PLAN MAP



Scale 1:2000

December 11, 1995

Echo Bay Ontario Ltd.

10175n

10150n

10125n

95-124

95-125

0 50



Scale in metres

Overburden

Talc, talc chlorite

152.0 M EOH

151.0 M EOH

SECTION 10300E

Looking towards 090 deg

Claim No. P512792



42A10SW0051 W9660-00009 MACKLEM