

P. 15449



31M04NE0015 2.15449 BEST

010

JAMES LAKE PROPERTY
BEST TWP.

HORIZONTAL LOOP ELECTROMAGNETICS

GEOPHYSICAL SURVEY

FEBRUARY 1994

by: **David Laronde**



010C

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JAMES LAKE PROPERTY GEOPHYSICS

1.0 INTRODUCTION

In February of 1994, a horizontal loop EM survey was carried out on the James Lake property held by Gino Chitaroni, P.O. Box 271, Cobalt, Ontario, P0J 1C0. The work was done by Meegwich Inc., P.O. Box 482, Temagami, Ontario and supervised by D. Laronde.

This phase of geophysical surveying is follow-up work from a previous magnetics and VLF-EM survey. This preliminary work outlined interesting zones with magnetic signatures and conductor configurations that warranted further investigation. A total of 16.775 km of HLEM (Maxmin II) was done over selected areas of the grid. The primary objective of this phase of geophysical surveying is to "define the geometry of the conductors" for drilling, particularly the extension of the zone (Zone 1 magnetics) from the Pyrite Mine on the west shore of James Lake.

2.0 PROPERTY

The survey was carried out over 20 contiguous claims in Best Twp. numbered: 1118502, 1118500, 1118506, 1118507, 1179176, 1179177, 1179178, 1179179, 1165505, 1165507, 1165508, 1179077, 1179078, 1179079, 1179080, 1118498, 1191012, 1118862, 1118863, 1118864.

3.0 LOCATION AND ACCESS

Regionally the claim group is 115 km due north of North Bay, Ontario or 500 km north of Toronto. Locally, the property is situated 15 km north of the town of Temagami and is easily accessed by Highway 11 which cuts the east half of the property in a north-south direction.

Numerous bush roads in and around the area make access by vehicle possible to most parts of the grid. In addition the Trans-Canada Pipeline virtually cuts the property in half and the Ontario Northland Railway is immediately east of the highway.

4.0 SUMMARY OF PAST EXPLORATION & DEVELOPMENT WORK

The property has been subjected to extensive exploration work since the turn of the century about the same time the railway was built. Mining on the property took place in the early 1900's at the Northland Pyrite Mine on the west shore of James Lake and in the mid 1900's at the Cuniptau Silica site in the southeastern corner of the property. There are numerous showings throughout the claim group. The most notable are the 10 Acana showings, the Mortimer showings, Guppy showing and Niemetz showing.

Early work consisted of hand trenching and mine workings in the old fashioned style. There is about 50 diamond drill holes on the property in and around the known showings.

Mineralization occurs in shears striking north-south and in quartz veins. Metals found on the property are Cu, Ni, Pt, Pd, Co, Zn, Pb, Mo, Ag, Au.

5.0 HORIZONTAL LOOP EM SURVEY

The HLEM survey was done at 25 meter stations over 16.775 km of selected areas of the grid. A Maxmin II unit (ser. no. 1765) was used with a coil separation of 150 meters. The instrument reads the in phase component and out-of-phase component of the secondary to an accuracy of +/-1%. The data is presented on 1:5000 plans using a profile scale of 1 cm = 20%. The 444 kHz and 1777 kHz frequencies were read.

5.1 DISCUSSION OF RESULTS

The HLEM survey picked up 4 conductors that were previously delineated by the VLF survey (except for D-1). There may still remain conductors undefined due to the Trans-Canada Pipeline which masks out natural bedrock conductors that co-incide with the pipeline location. This may be so between Conductor D-1 and G. An attempt to minimize the effect of the pipeline was done by reversing the transmitter and receiver to keep the receiver farthest from the influence of the pipeline as well as the power line along Highway 11.

The conductors encountered in the HLEM survey are as follows:

Conductor A: This anomaly is only partially defined due to the property boundary where the linecutting stopped. Lines would have to be extended for 200 meters onto the neighbouring mining property to get the full picture, however the eastern shoulders are very apparent indicating the conductor axis is about 75 meters west. High priority drilling target.

Conductor D: Conductor D is believed to be the southern extension of the Pyrite Mine. Magnetics suggest this zone may contain magnetic sulphide mineralization thus making it a primary drilling target. This anomaly is a moderate strength conductor dipping steeply to the west.

Conductor D-1: Conductor D-1 was not picked up by a previous VLF-EM survey. The conductor yields a weak response on L 9 S and 10 S at 625 W. The conductor cannot be defined geometrically due to the weak response however, co-incident magnetics make it a target for mineralization.

High priority drilling target.

Conductor E: This anomaly was previously described as being the result of a north-south trending fault. Because the HLEM picked it up as a weak response, although only partially defined it remains such.

Low priority target.

Conductor G: Outlined by the VLF survey as traversing Granite Lake in a north-south direction, this conductor is very weak and does not have much strike length.

Low priority target.

Conductor H: This anomaly is weak but does coincide with the Acana showing thus making it an interesting target.

Medium priority target.

6.0 CONCLUSIONS & RECOMMENDATIONS

Conductors A, D, D-1, H are co-incident with a Zone identified by the magnetics survey. These conductors represent a linear pattern that has magnetic signature. There are series of mag highs along this trend and mineralization is known to occur as magnetic and conductive.

Conductor D, D-1, and H should be drilled or trenched to uncover the grade of mineralization causing the conductivity and the magnetic responses.

Respectfully submitted,



David D. Laronde
Geology Engineering Technologist
Meegwich Inc.
February 22, 1994.



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des mines

**Statement of Costs
for Assessment Credit**

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

Mining Act/Loi sur les mines

Transaction No./N° de transaction

2-35449

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	400	
	Field Supervision Supervision sur le terrain	\$400.00	\$400.00
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type Max-Min II		
	Geoph, site survey Hecquith Inc.	\$3,041.09	\$3,041.09
Supplies Used Fournitures utilisées	Type		
			—
Equipment Rental Location de matériel	Type included		
	Survey paid		
Total Direct Costs Total des coûts directs			\$3,441.09

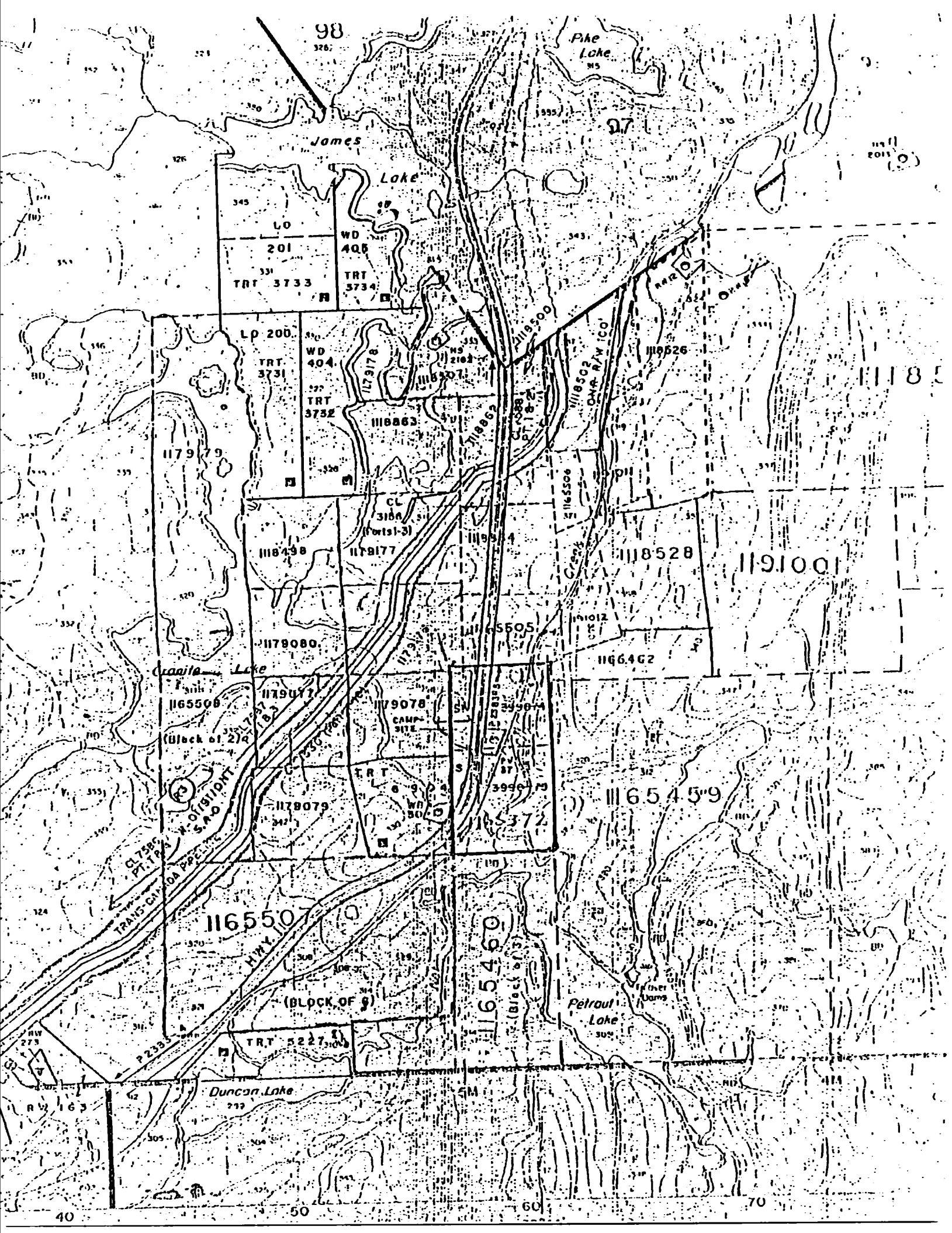
2. Indirect Costs/Coûts indirects

** 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'excedant 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

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans



98

326

Pike Lake
MS

James

Lake

LO

WD

201

TRT 3733

TRT 3734

LP 200

WD

404

TRT 3731

TRT 3752

1179178

1185071

118863

117979

CL 3186

(Total-3)

118498

1179177

118528

119100

1179080

1185505

118528

1166462

Granite Lake

1165508

1179077

1179078

CAMP SITE

(Block of 2)

TRT

WD 507

1179079

1165459

CL 7585

PT. 194

TRANS. CIV. W. OF BOUND.

S. 100' P.P. 100' P.P. 100' P.P.

1165507

1165400

(Block of 9)

TRT 5227

Petrol Lake

Duncan Lake

279

RW 163

40

50

60

70

"Granite-James Lake Project"

**Statement of Costs
(Feb.1st - Feb. 27th/94)**

Expenses:

Meegwich Inc.

David Laronde (supervisor)
and assistant -- \$135.00/km * 16.775/km
Max-Min II geophysical survey = \$2,264.63

Report Formulation = 500.00

Sub-Total = \$2,764.63

Contingency Costs
10% (including GST & PST) = \$ 276.46

Labour:

Gino Chitaroni (project-supervisor)

Feb.1st & 26th 8hrs each

Labour: (supervision, site-
preparation, and contractor assistant)

2days * \$200.00/day @ 8hrs/day = \$ 400.00

\$3,441.09

MEEGWICH SURVEYS

Ground Geophysics - Staking

Box 482,
Temagami, Ontario
POH 2H0

Tel. (705) 569-2904
Fax. (705) 569-2817

PRICE LIST - 1994

GEOPHYSICAL SURVEYS

<u>Survey</u>	<u>Rate</u>	<u>Survey Details</u>
Magnetometer/Gradiometer	\$90/km	EDA base and field equipment
VLF Survey	\$80/km	EM-16 Geonics
MAXMIN I (Horizontal loop EM) Hz.	\$155/km	111, 222, 444, 1777, 7111, 14800 frequencies; coil sep. 50-250 meters
MAXMIN II	\$135/km	222, 444, 888, 1777, 3555 Hz. frequencies; coil sep. 50-250 meters

** Above prices are for the survey and plan maps.

Surveying

Boundary Surveying

DDH Surveys - \$650/day for 3 man crew and equipment

Baseline

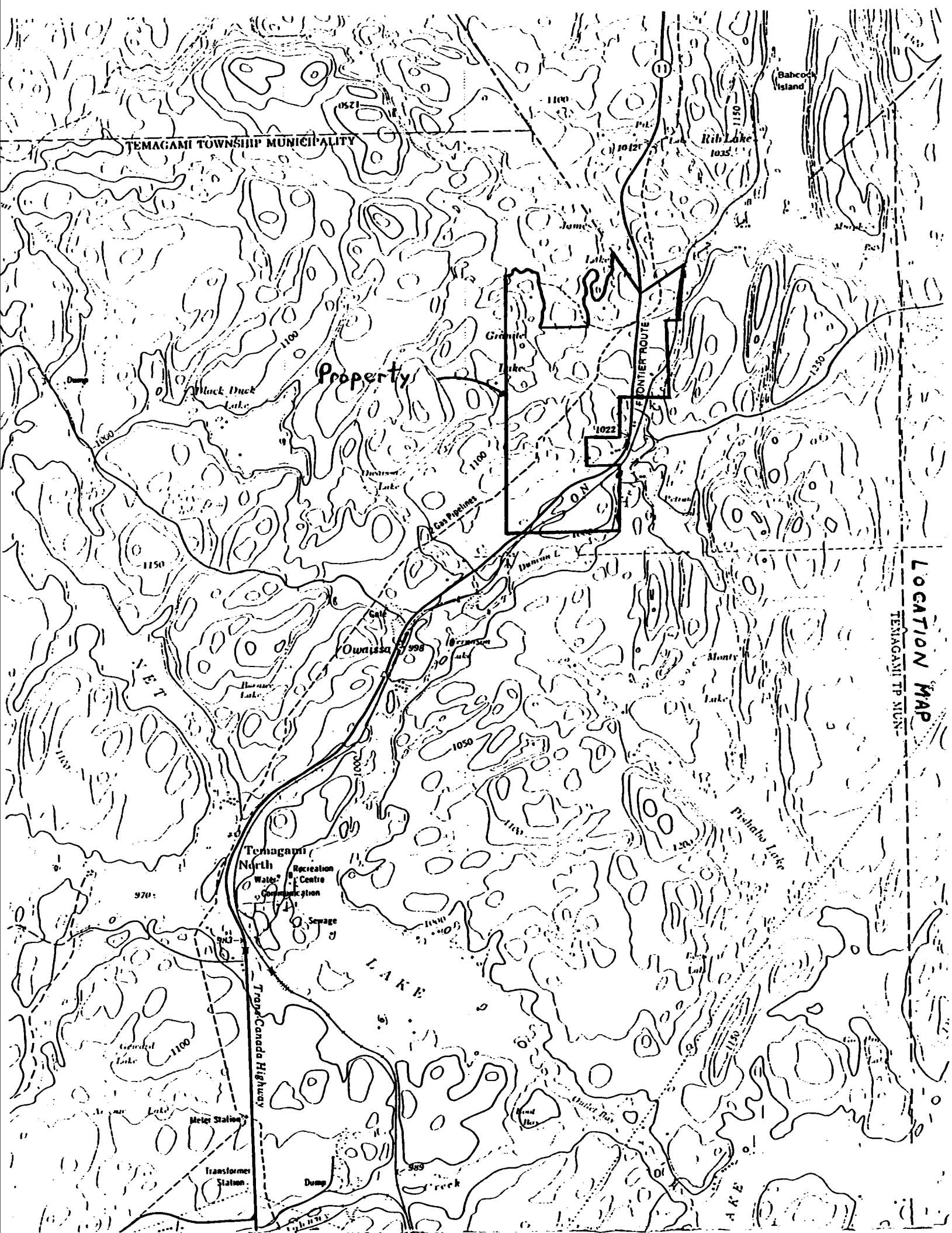
Level Survey

Staking and Linecutting

Staking - \$110/claim (single claims)
- \$50/unit (block staking)

Linecutting - \$220/km
- surveyed baselines \$650/day for 3 man crew

Daily Rate - \$200/day/man



TEMAGAMI TOWNSHIP MUNICIPALITY

Property

LOCATION MAP

TEMAGAMI TP MUN.

Temagami North
Water & Communication
Recreation Centre
Sewage

Trans-Canada Highway

Transformer Station

Meter Station

Dump

LAKE

ONTARIO ROUTE 11

Gas Pipelines

Dumfries L.

Rib Lake

Pishabo Lake

Monty Lake

Granite Lake

Owassa Lake

Muck Duck Lake

Gravel Lake

Outer Bay

Crack

Babcock Island

11

1012

1012

1022

998

1000

989

1150

970

1100

1100

1150

1025

1250

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31M04NE0015 2.15449 BEST

900

Transaction Number
W9470.00033

Personal information collected this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

2.15449

- Instructions:
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining 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.

Lil K2713

Recorded Holder(s) Gino Chitaroni		Client No. 117874
Address Portage Bay Rd., P.O. Box 271 Cobalt, Ont, P0J1C0		Telephone No. 705-679-5946
Mining Division Sudbury	Township/Area Best Twp	M or G Plan No. G-3409
Dates Work Performed From: Feb 1 / 94		To: Feb 27 / 94

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	Max-Min II geophysical ground survey and minor line repair.
<input type="checkbox"/> Physical Work, Including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

RECORDED
MAR 28 1994

Total Assessment Work Claimed on the Attached Statement of Costs 3,441.09 3441

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
David Lalonde	P.O. Box 482, Temagami, Ont, P0H 2H0 (705-569-2200)
Gino Chitaroni	Portage Bay, Rd., P.O. Box 271, Cobalt, Ont, P0J1C0

RECEIVED
JUN - 1994

(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 March 23/94	Recorded Holder or Agent (Signature) Gino Chitaroni
--	---------------------	--

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 Gino Chitaroni Portage Bay Rd P.O. Box 271 Cobalt Ontario P0J1C0	Telephone No. 705-679-5946	Date March 23/94	Certified By (Signature) Gino Chitaroni
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For Office Use Only

Total Value Cr. Recorded Applied \$3,441. ⁰⁰	Date Recorded March 28/94	Mining Recorder [Signature]	RECEIVED MAR 28 1994 A.M. 7, 8, 9, 10, 11, 12, 1, 2, 3, 4, 5, 6 P.M.
Deemed Approval Date June 27/94	Date Approved [Signature]		
Date Notice for Amendments Sent			

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction

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1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	400	
	Field Supervision Supervision sur le terrain	400.00	400.00
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type Max-Min II		
	Geophysical Survey Heegunth Inc.	3,041.09	3,041.09
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type included		
	Survey party		
Total Direct Costs Total des coûts directs			3,441.09

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 démoblisation			
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
	x 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
	x 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 Sina Chitserian 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: [Signature] Date: March 23/94



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Geoscience Approvals Section
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

June 9, 1994

Our File: 2.15449
Transaction #: W9470.00033

Mining Recorder
Ministry of Northern Development & Mines
933 Ramsey Lake Road, 3rd Floor
Sudbury, Ontario
P3E 6B5

Dear Sir/Madam:

**Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS
S.1179178 ET AL IN BEST TOWNSHIP**

The assessment work credits for Geophysics, Section 14 of the Mining Act Regulations have been approved as outlined on the original submission.

The approval date is June 9, 1994.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5855.

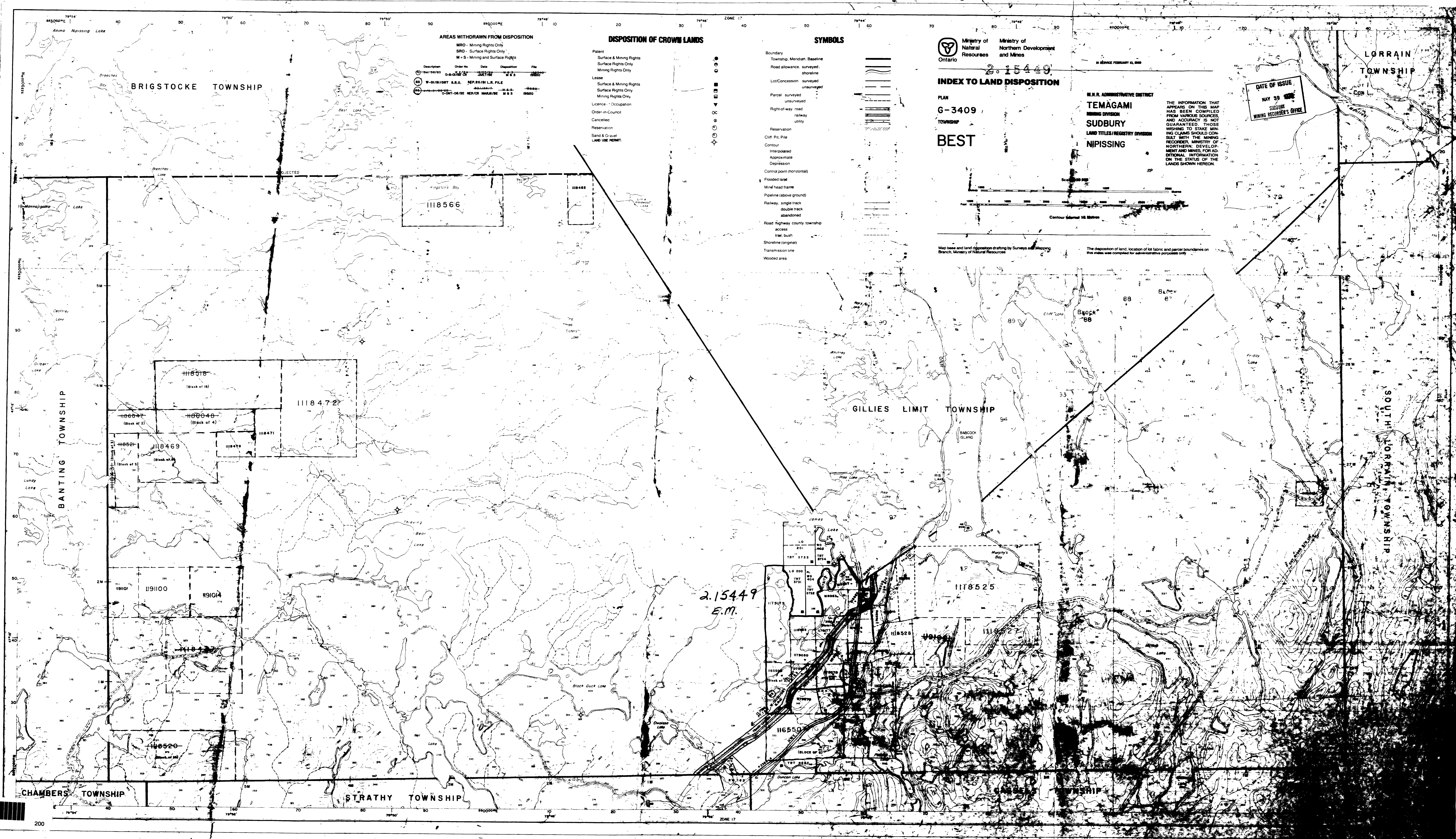
Yours sincerely,

Ron C. Gashinski
Senior Manager, Mining Lands Section
Mining and Land Management Branch
Mines and Minerals Division

Alj/vni

cc: Resident Geologist
Cobalt, Ontario

Assessment Files Library
Sudbury, Ontario



AREAS WITHDRAWN FROM DISPOSITION
 MRO - Mining Rights Only
 SRO - Surface Rights Only
 M & S - Mining and Surface Rights

DISPOSITION OF CROWN LANDS

Patent	Surface & Mining Rights
	Surface Rights Only
	Mining Rights Only
Lease	Surface & Mining Rights
	Surface Rights Only
	Mining Rights Only
License - Occupation	
Order in Council	
Charities	
Reservation	
Sand & Gravel	
LAND USE POINT	

SYMBOLS

- Boundary
- Township, Meridian, Baseline
- Road allowance: surveyed, shoreline
- Lot/Concession: surveyed, unsurveyed
- Parcel: surveyed, unsurveyed
- Right-of-way: road, railway, utility
- Reservation
- City file line
- Contour
- Impounded
- Aggravation
- Depression
- Control point (horizontal)
- Flooded land
- Marsh name
- Pipeline (above ground)
- Railway, single track
- Subsidence
- Road: highway, county, township
- Access
- Line: South
- Shoreline (longitudinal)
- Transmission line
- Wooded area

Ministry of Natural Resources
 Ontario
 2-15449
 Ministry of Northern Development and Mines

INDEX TO LAND DISPOSITION
 PLAN G-3409
 TOWNSHIP BEST

M.N.R. ADMINISTRATIVE DISTRICT
TEMAGAMI
 SUBDIVISION
SUBBURY
 LAND TITLES/REGISTRY DIVISION
NIPISSING

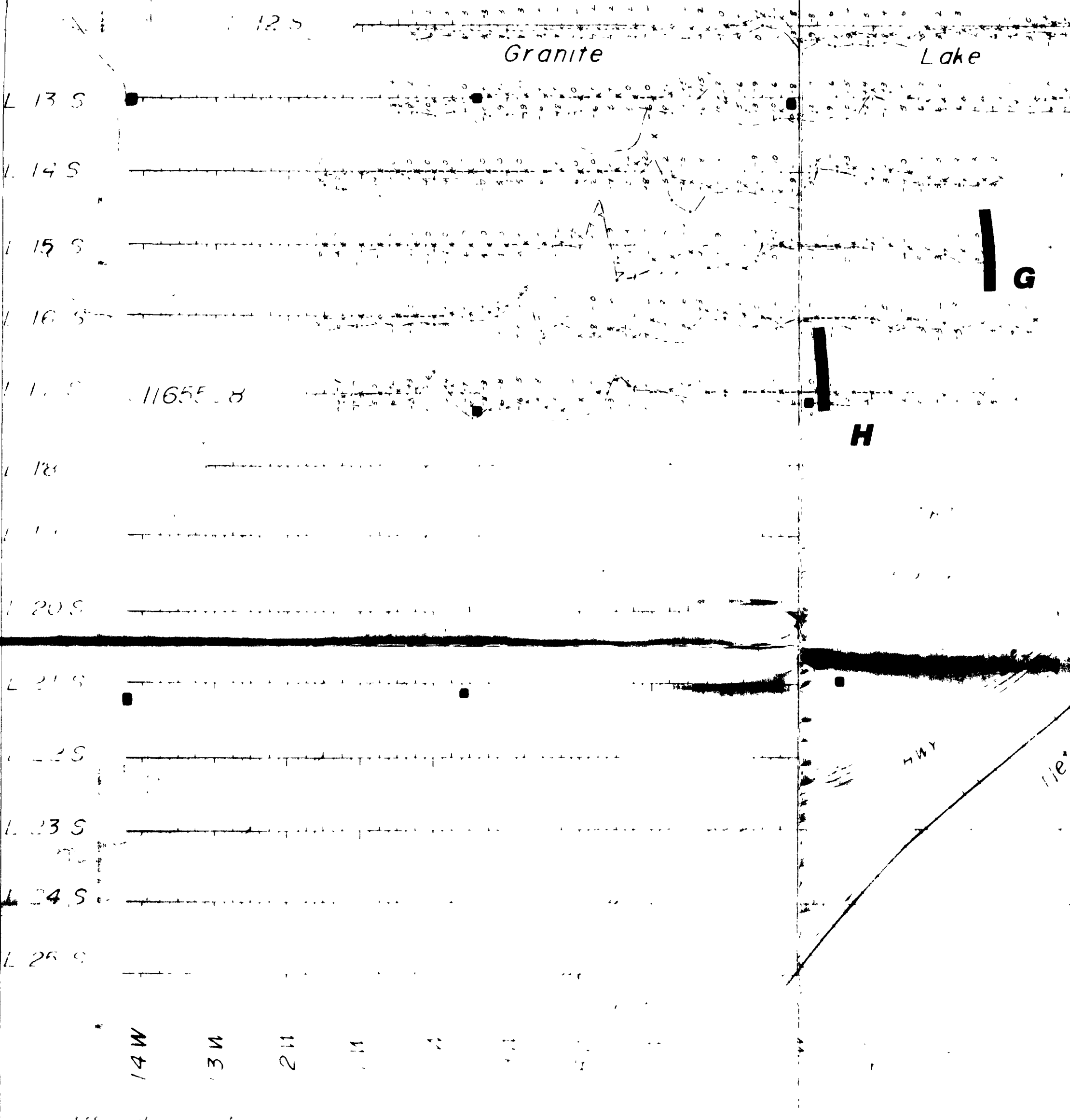
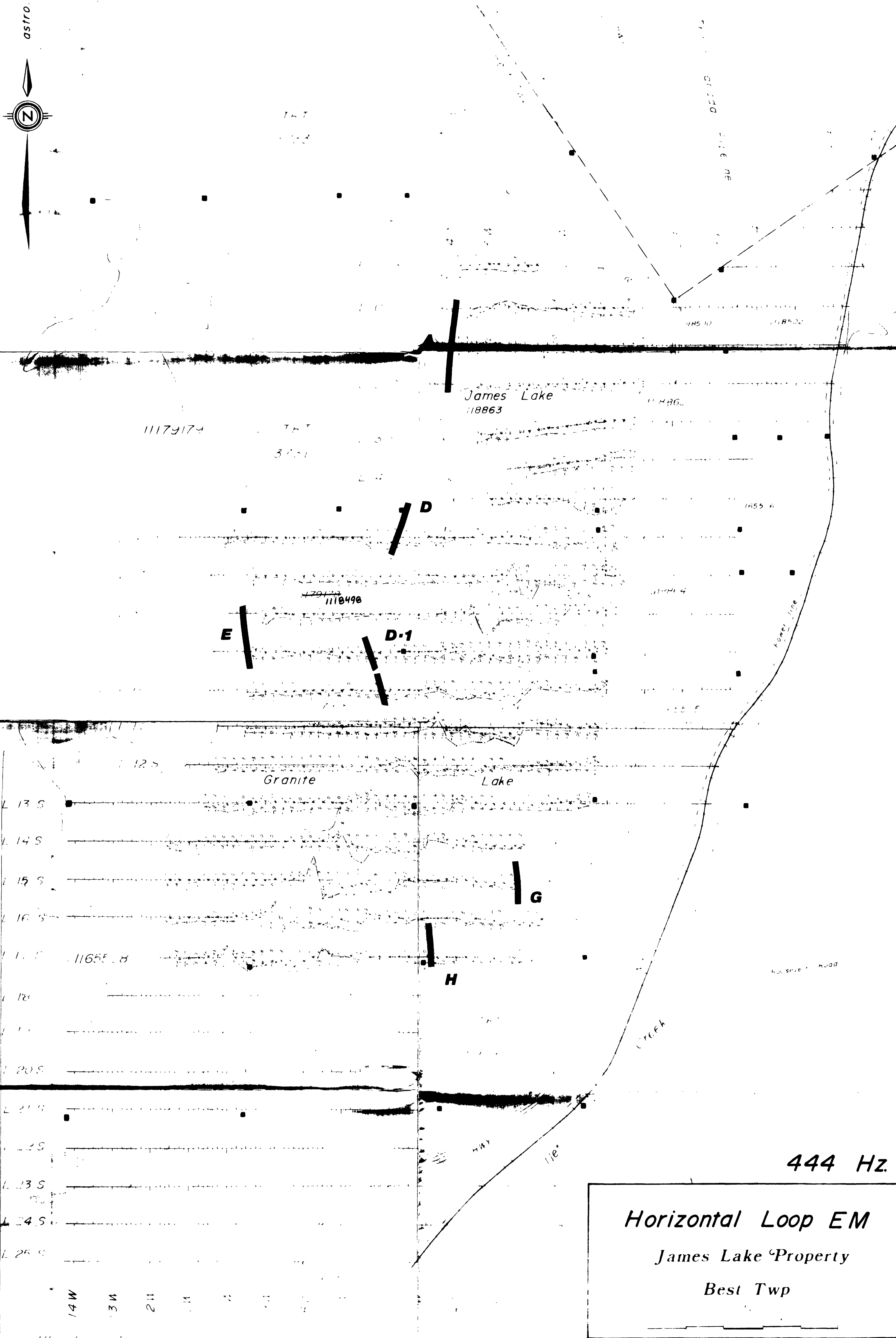
DATE OF ISSUE
 MAY 29 1986
 CLOSURE
 MINING RECORDS DIVISION

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. PEOPLE WHO USE THIS MAP SHOULD CONSULT WITH THE MINING RECORDS DIVISION, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LAND SHOWN HEREON.

Map lines and land disposition drawings by Survey and Mapping Branch, Ministry of Natural Resources
 The disposition of land, location of lot lines and parcel boundaries on this index are compiled for administrative purposes only.

2.15449
 S.M.





444 Hz

Horizontal Loop EM
 James Lake Property
 Best Twp

2.15449

Legend

Instrument: *Maxmin 11*
 Coil spacing: *150 meters*

- in phase*
- quadrature*
- conductor axis*

