RVICES EXPLORATION SERVICES Enrg. Reg'd

765, BOUL. QUÉBEC
C.P. 428
ROUYN-NORANDA, P.Q.
J9X 5C4

TÉLÉPHONE: (819) 797-0853

Dessin et Reproduction	Drafting and Reproduction Services
Jalonnement de Claims	Claim Staking
Coupage de Lignes	Line Cutting
Levés Géophysiques	Geophysical Surveys
Levés Géologiques	Geological Surveys
Programmes d'Exploration	Exploration Programmes
Vente d'articles d'exploration minière	Sales of mining exploration articles

INDUCED POLARIZATION SURVEY

BELANGER-JOLETTE PROPERTY

Ben-Nevis Twp.

July 1989

TABLE OF CO

Ø10C

APPENDIX

I - INTRODUCTION: Within the framework of an extensive exploration program. an induced polarization survey was carried out. on the BELANGER-JOLETTE property. by Rémi Bélanger Enrg.. during the month of June. 1989.

II - PROPERTY: The property held by R. Bélanger and R. Jolette consists of a large block of claims located in Ben-Nevis township. however. the survey was carried out on three claims only. namely claim numbers: 1110233-1110236 and 1110237.

III - LOCATION & ACCESSIBILITY:

The surveyed area is located in the vicinity of Ranger Lake which lies in the eastern part of Ben-Nevis Twp. at an approximate distance of 15 miles north of the town of Larder Lake. Ontario.

The area may be reached from an access road which leads northwards from the town of Larder lake. up to Captain Lake. a travelling distance of approximately 14 miles. From there. a trail leads northeastwards to Ranger Lake - it can be traveled by A.T.V or by skidoo in the winter time.. an additional distance of 1 mile.

IV - INDUCED POLARIZATION SURVEY:

A - THE GRID:

The survey was carried out on a previously cut grid whose 300 meter long base line strikes at 90. Cross lines. spaced at every 100 meter intervals extend southwards to 8+00 S and extend northwards to a maximum distance of 200 meters. Thus a total of 2.3 line Km have been surveyed.

B - INSTRUMENTATION:

A Phoenix IPV-1 receiver and IPT-1 transmitter was used to carry out the survey transmitting with a power of 2.5 Kw.

A dipole-dipole electrode array was used with a 50 meter spread between electrodes. readings were taken at frequencies of 2.5 and 4.0 Hz with values of N ranging from N=1 to N=8.

THe survey recorded the resistivity in ohm/meters. the apparent frequency Effect and the apparent Metal Factor.

C - INTERPRETATION:

1 - Resistivity:

The general pattern outlined by the resistivity data of the 4 surveyed lines indicates the presence of geological contacts in the vicinity of 0+50 N and 2+50 S.

The resistivity data also suggests the presence of relatively shallow overburden over most of the surveyed area.

2 - Apparent Frequency Effect: [%]

A relatively weak to moderate I.P. anomaly has been outlined on all lines read. between 0+50 N and 1+50 S. The strongest readings have been obtained on cross line 0+00 where readings of up to 3.8 have been recorded - an area of 3 to 10% disseminated sulfides is thus inferred.

3 - Apparent Metal Factor: [%]

The weak patterns obtained in the vicinity of Frequency Effect anomalous zones would indicate that the disseminated sulfides occur within a rock matrix of relatively high resistivity.

V - CONCLUSIONS & RECOMMENDATIONS:

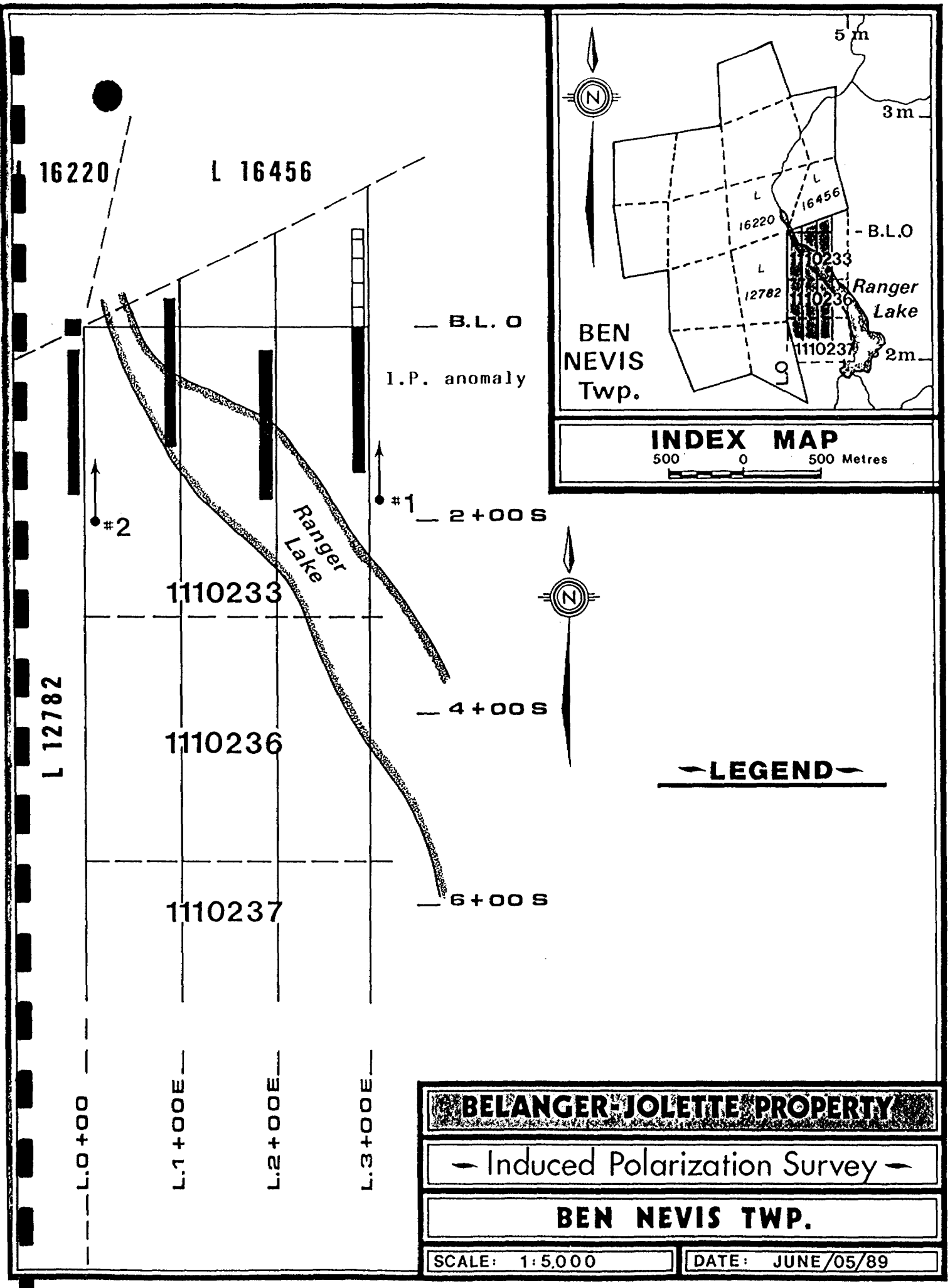
The induced polarization survey has outlined a weak to moderate Frequency Effect anomaly on all of the lines surveyed between 0+50 N and 1+50 S within rock units of relatively high resistivity.

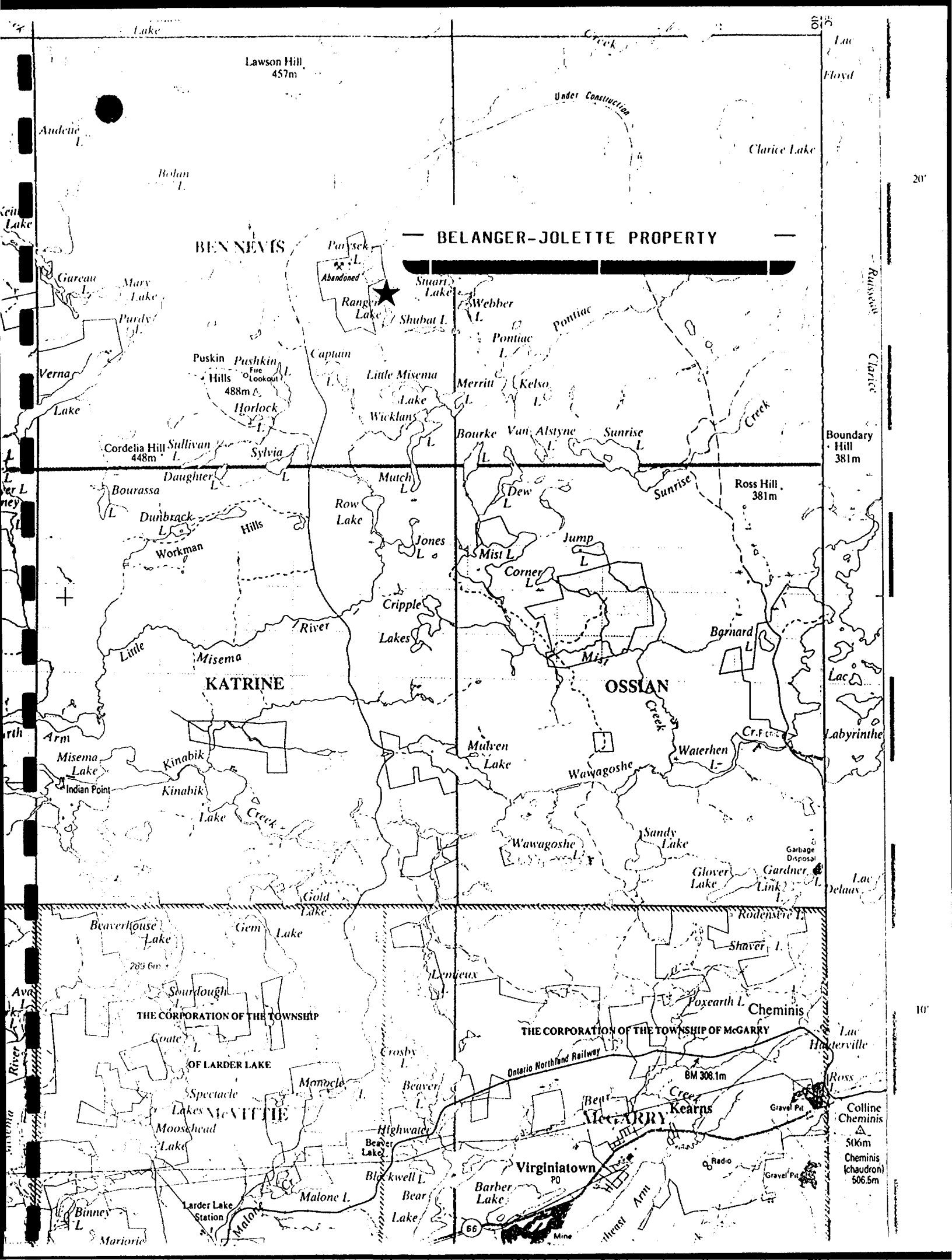
The I.P. anomaly thus outlined should be considered as a potential drill target because of the favourable assay results obtained on the adjoining ground to the west.

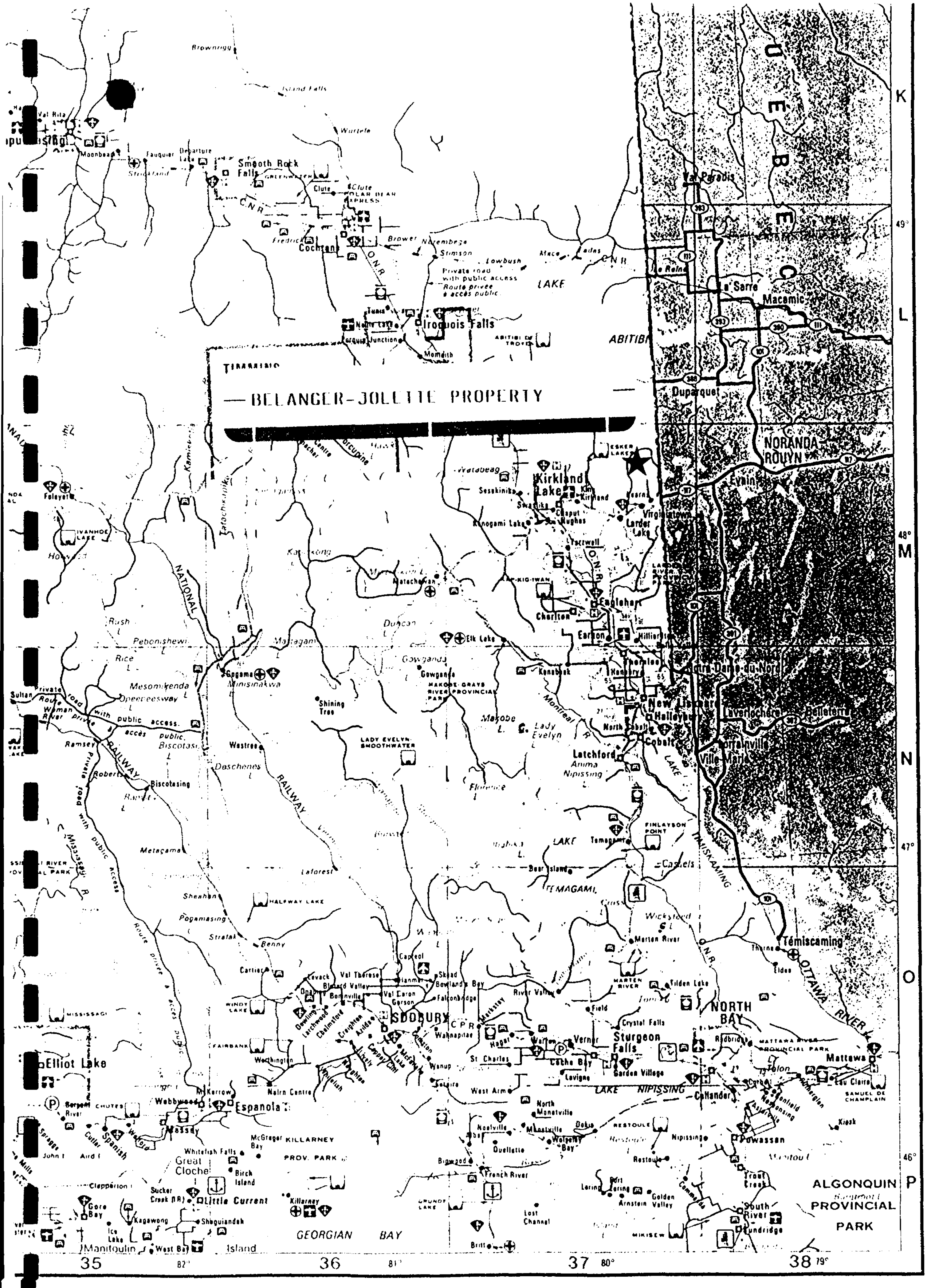
Respectfully submitted:

E. Chartré : _____ July 1 1989

2.1415


L 16220
L 16456
B.L. O
I.P. anomaly
#1
#2
2+00S
4+00S
6+00S
Ranger Lake
1110233
1110236
1110237
L 12782
L.0+00
L.1+00E
L.2+00E
L.3+00E
5m
3m
2m
B.L.O
Ranger Lake
BEN NEVIS Twp.
INDEX MAP
500 0 500 Metres
LEGEND
BELANGER-JOLETTE PROPERTY
Induced Polarization Survey
BEN NEVIS TWP.
SCALE: 1:5,000
DATE: JUNE/05/89


BELANGER-JOLETTE PROPERTY
BEN NEVIS
KATRINE
OSSIAN
McVITTIE
McGARRY
THE CORPORATION OF THE TOWNSHIP OF LARDER LAKE
THE CORPORATION OF THE TOWNSHIP OF McGARRY
Lawson Hill 457m
Under Construction
Clarice Lake
Abandoned
Ranger Lake
Shubat L.
Stuart Lake
Webber L.
Pontiac L.
Pontiac
Puskin Hills
Pushkin Fire Lookout
488m
Horlock L.
Captain L.
Little Misema Lake
Merritt L.
Kelso L.
Wicklans L.
Bourke L.
Van Alstyne L.
Sunrise L.
Sullivan L.
Sylvia
Cordelia Hill 448m
Boundary Hill 381m
Ross Hill 381m
Daughter L.
Bourassa L.
Dunbrack L.
Hills
Workman
Mutch L.
Row Lake
Dew L.
Jones L.
Mist L.
Jump L.
Corner L.
Cripple Lakes
Little Misema River
Barnard L.
Misema Lake
Indian Point
Kinabik Lake
Kinabik Creek
Arm
Mulven Lake
Wawagoshe L.
Waterhen L.
Labyrinthe
Sandy Lake
Garbage Disposal
Glover Lake
Gardner Link L.
Gold Lake
Beaverhouse Lake
Gem Lake
Rodenstre L.
Shaver L.
Lemieux L.
Foxearth L.
Cheminis
Sourdough L.
Goate L.
Crosby L.
Monocle L.
Beaver L.
Spectacle Lakes
Mooshead Lake
Highwater
Beaver Lake
Blackwell L.
Malone L.
Bear Lake
Barber Lake
Virginiatown
PO
Radio
Gravel Pit
Kearns
Colline Cheminis
506m
Cheminis (chaudron) 506.5m
BM 308.1m
Ontario Northland Railway
Larder Lake Station
Binney L.
Marjorie
Mine
66
Lac Hauterville
Lac Delaux
Lac
Ross
Creek
Bear Creek
Mist Creek
Wawagoshe Creek
Cr. F Creek
Audette L.
Bolan L.
Verna Lake
Mary Lake
Gareau L.
Purdy L.
Floyd
Clarice
Russell
20'
10'



Multi-l
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Corpo
Limite
Railwa
Servic
Ferry
Trave
Airpo
Aérop
kilom
Distar
Trans
Route
Carpo
Parc
Ontar
Détac
Hospi
Hôpit
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Poste
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5,00
1,00
Unde

Ministry of Northern Development and Mines
Ontario

Mining Lands.

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

DOCUMENT NO. W8908.300

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): INDUCED POLARIZATION.	Township or Area: BEN-NEVIS TWP.
Claim Holder(s): RENE JOLETTE. 2.12222	Prospector's Licence No.: K-21750
Address: 360 ENGLAND ST. R.R.#1 LAKE-DUFAULT, ROUYN-NORANDA, P.Que.	
Survey Company: REMY BELANGER ENRG.	Date of Survey (from & to): 05 06 89 (Day Mo. Yr.) – 12 06 89 (Day Mo. Yr.)
Total Miles of line Cut: 8.3 KM.	
Name and Address of Author (of Geo-Technical report): SERVICES EXPLORATION ENRG.	

Credits Requested per Each Claim in Columns at right

		Days per Claim
Special Provisions: For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other I.P.	40
	Geological	
	Geochemical	
Man Days: Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits: Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	1110233	~~40~~

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES OFFICE
SEP 27 1989
RECEIVED

LARDER LAKE MINING DIV.
RECEIVED
AUG 22 1989
AM 10:20 PM
7 8 9 10 11 12 1 2 3 4 5 6

RECEIVED
SEP 6 1989
MINING LANDS SECTION

Total number of mining claims covered by this report of work: 1

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.

Date	Recorded Holder or Agent (Signature)
AUG. 22-89	Remy Belanger

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
40	August 22/89	M. G. Wearn
	Date Approved as Recorded: Sept 27/89	Branch Director: [illegible]

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	Date Certified	Certified by (Signature)
REMY BELANGER. BOX 40 EVAIN, P.Que. J0Z 1Y0	AUG. 22-89	Remy Belanger

1362 (85/12)

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey

Technical Days				Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7	=		+		=		+		=	

Type of Survey

Technical Days				Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7	=		+		=		÷		=	

Type of Survey

Technical Days				Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7	=		+		=		÷		=	

Type of Survey

Technical Days				Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7	=		+		=		÷		=	

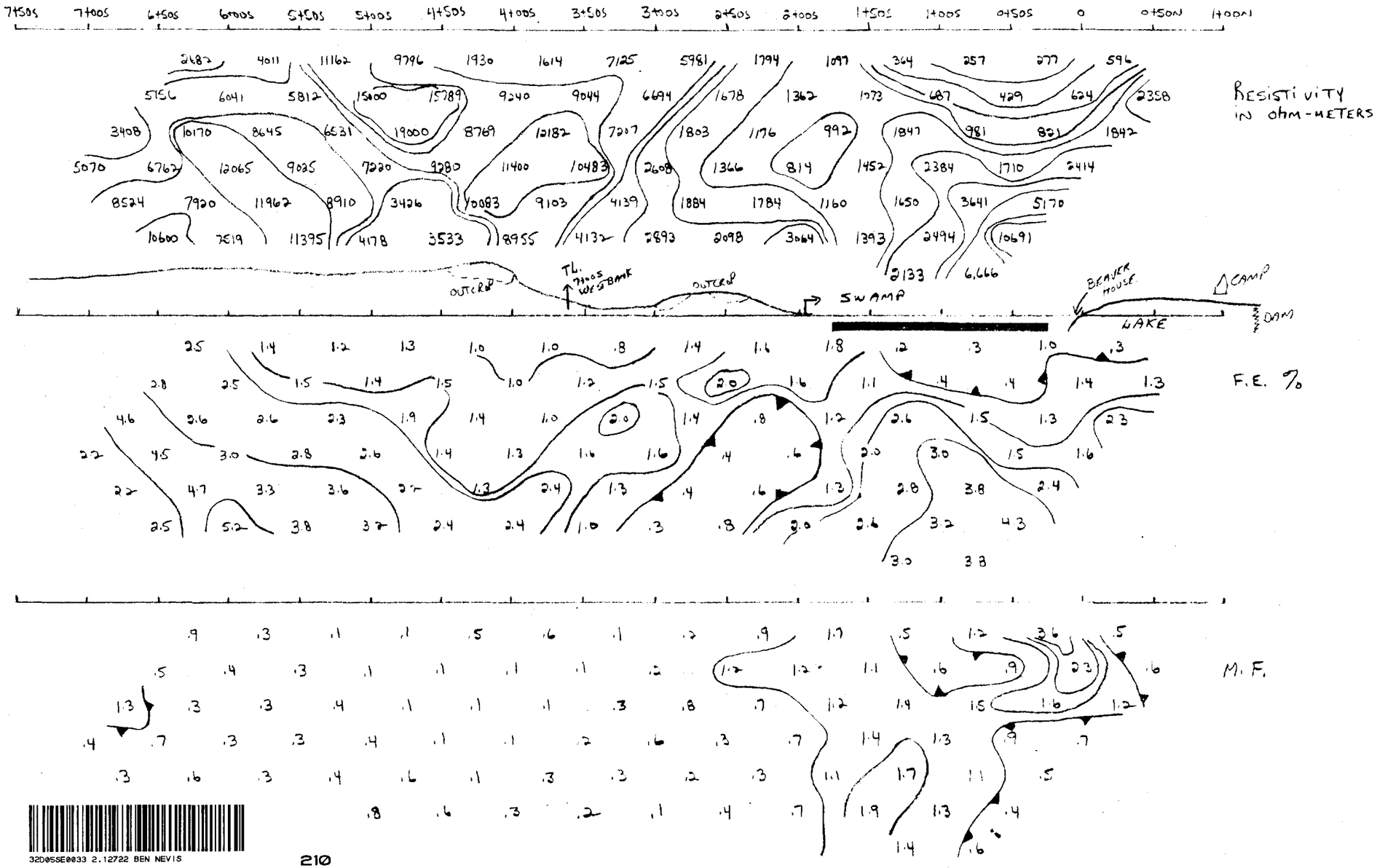
INDUCED POLARIZATION DIPOLE-DIPOLE.

50 METERS SPREADS N=1 TO N=8

FREQUENCY DOMAIN.

GENERATOR 2.5 KW.

4 LINES 100METERS APART.



BELANGER – IOLETTE PROPERTY

BEN-NEVIS TWP

ONTARIO.

I.P. SURVEY IP V-1, IP T-1

FREQUENCY .3 & 4.0 Hz.

DIPOLE-DIPOLE

50 METER SPREADS

1CM = 25M

DATE JUNE 05-89

Remi Belanger

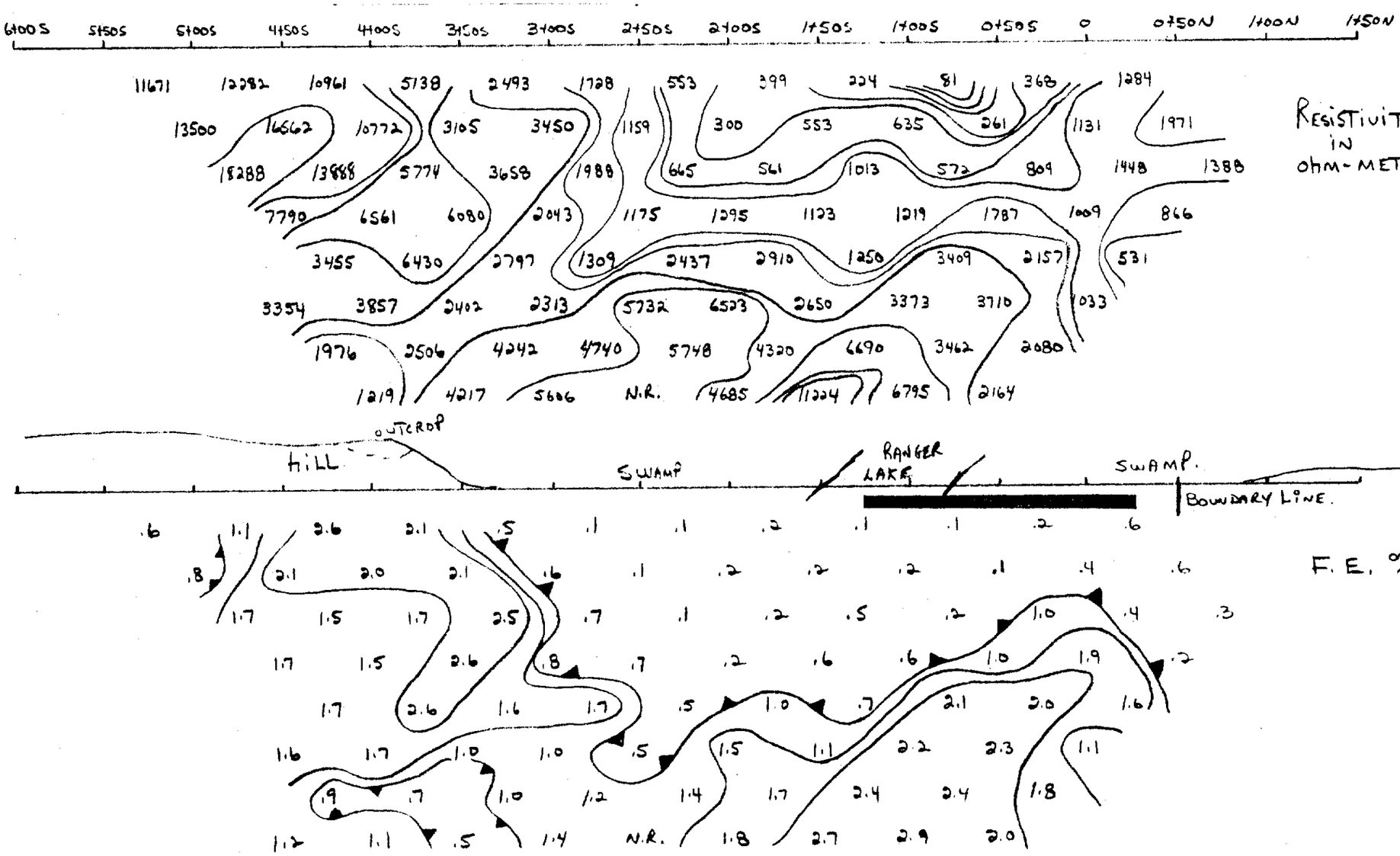
LINE 0

~LEGEND~

___ DEFINITE AROMALOUS ZONE

___ PROBABLE AROMALOUS ZONE.

2.12[illegible]



RESISTIVITY IN OHM-METERS

F.E. %

M.F.

BELANGER - JOLETTE
BEN-NEVIS TWP.
ONTARIO
I.P. SURVEY
FREQUENCIES 0.25 & 4.0 HZ.
DIPOLE-DIPOLE
50 METERS SPREADS.
DATE JUNE 07-89
LINE 1+00E

Remy Belanger

~LEGEND.~

- DEFINITE AROMALOUS ZONE
- PROBABLE AROMALOUS ZONE

2.12722

RESISTIVITY IN OHM-METERS

F.E.°/o

M.F.

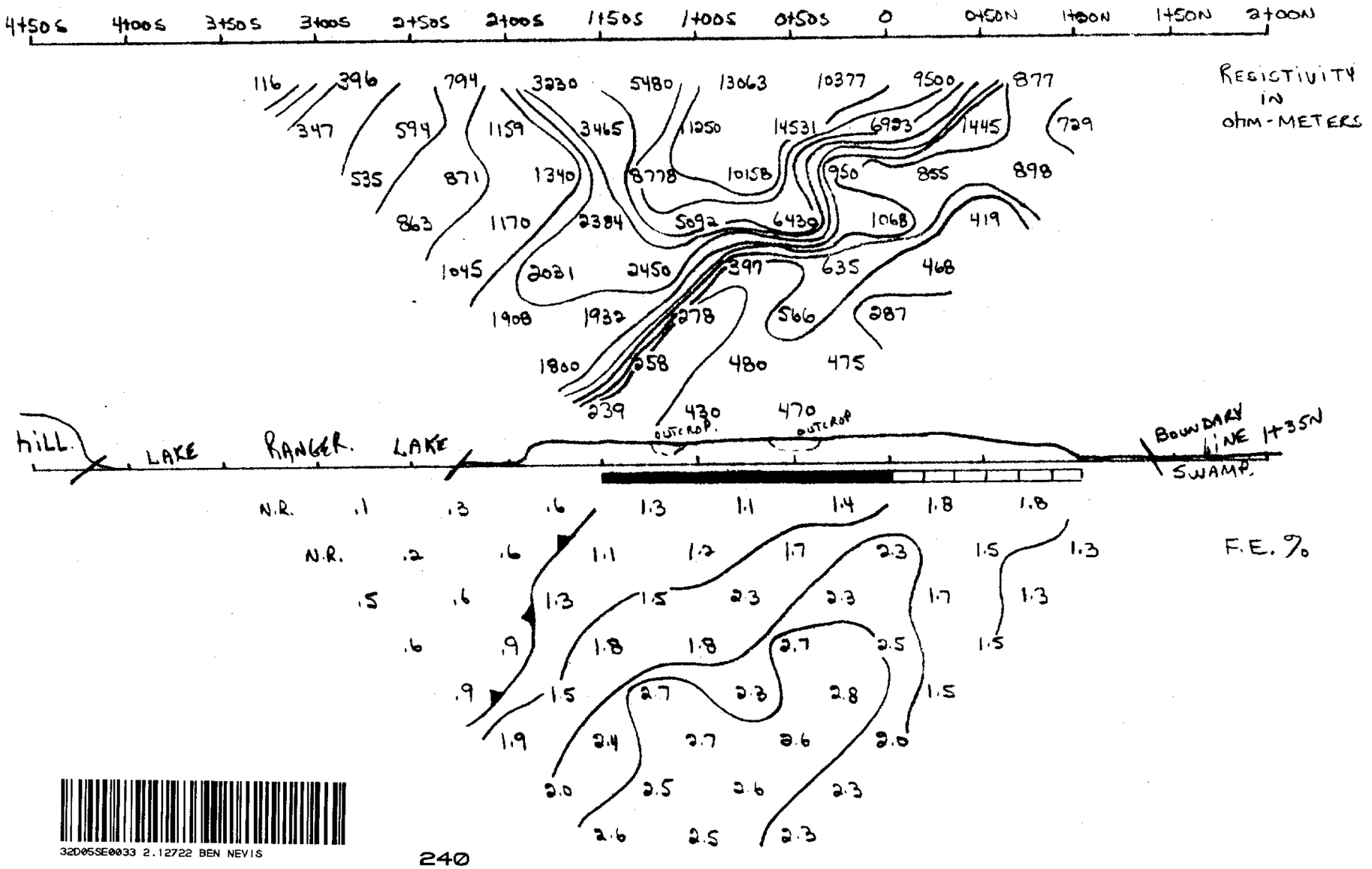
RELANGER-JOLETTE.
BEN-NEVIS TWP.
ONTARIO
I.P. SURVEY
FREQUENCIES 0.25 & 4.0 HZ.
DIPOLE-DIPOLE
50 METERS
DATE JUNE 07-89
LINE 2+00E
Remy Belanger

~LEGEND~

DEFINITE AROMALOUS ZONE
PROBABLE AROMALOUS ZONE

2.12722

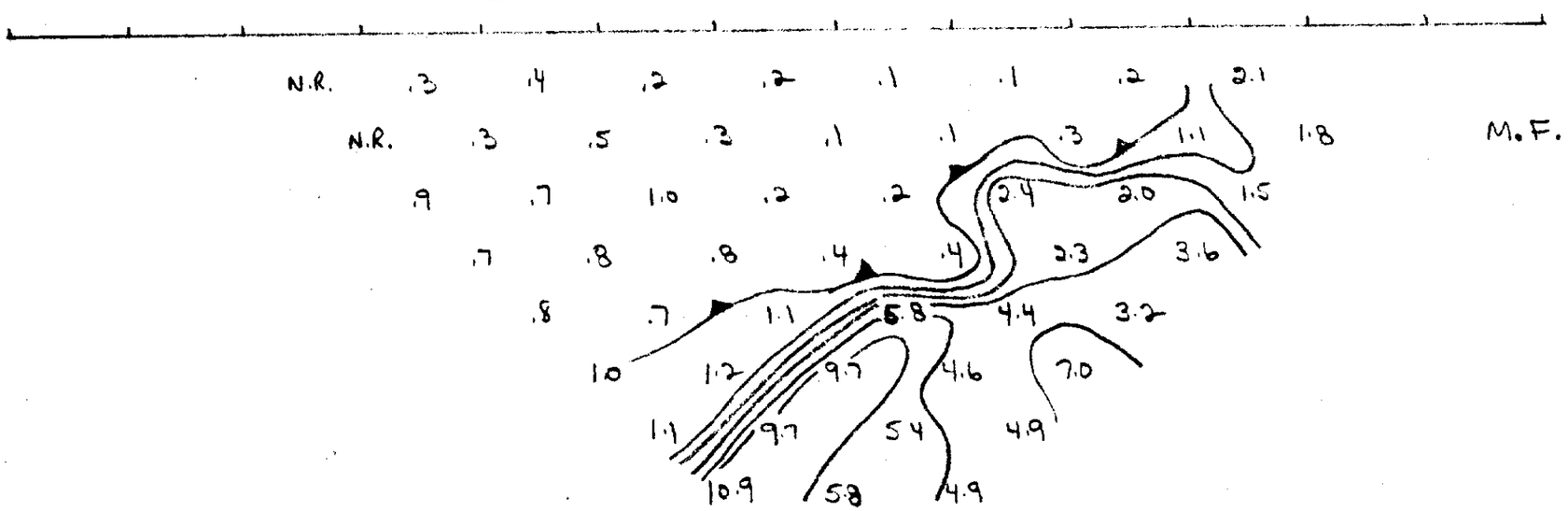
BELANGER - JOLETTE
BEN-NEVIS TWP
ONTARIO
I.P. SURVEY
DIPOLE-DIPOLE
50 METERS SPREADS
FREQUENCIES 0.25 & 4.0 HZ.
1 CM = 25M
LINE 3+00E
DATE JUNE 12-1989
Remy Belanger



~ LEGEND ~

- DEFINITE ANOMALOUS ZONE
- PROBABLE ANOMALOUS ZONE

2.12722



Tannahill Twp.(M.390)

Clifford Twp(M.338)

Pontiac Twp.(M.382)

Katrine Twp.(M.357)

THE TOWNSHIP
OF

BEN NEVIS

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1 INCH = 40 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C S
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L O
MINING RIGHTS ONLY	M R O
SURFACE RIGHTS ONLY	S R O
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C
TRAILS	

NOTES

400' Surface rights reservation along the shores of all lakes and rivers.

(W) SURFACE AND MINING RIGHTS WITHDRAWN
FROM STAKING SECT 36 ORDER W 01/88L
3.45pm Sept 28,1988
0 09/89L W 01/88L MINING AND SURFACE RIGHTS

PUSHKIN HILLS NATURE RESERVE SURFACE AND MINING RIGHTS NOT OPEN TO STAKING

(R2) PENDING PROCEEDINGS SURFACE AND MINING RIGHTS NOT OPEN TO STAKING

DATE OF ISSUE
JUL 17 1989
LARDER LAKE
MINING RECORDER'S OFFICE

circulated march 17,1989

PLAN NO. M. 325 MW.

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE
TIMISKAMING MANAGEMENT UNIT
AND MAY BE SUBJECT TO FORESTRY OPERATIONS
THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 129
SWASTIKA, ONT.
P0K 1T0
705-642-3222

TOWNSHIP SUBJECT
TO
FORESTRY OPERATIONS