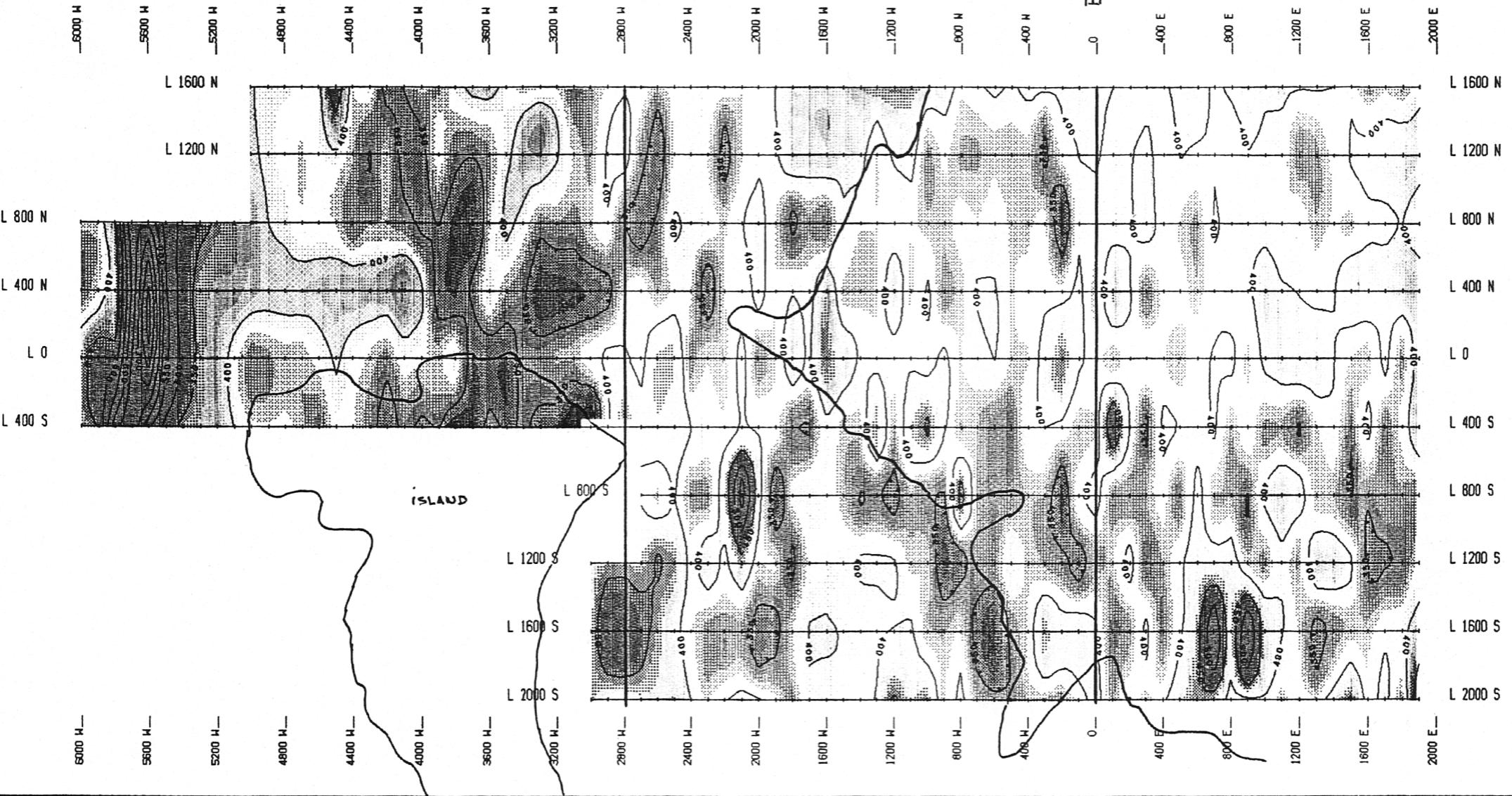


GM 48072



Inclination: -76 Deg  
Declination: 12 Deg W

0 500 1000  
FEET

Survey by: Meegwich Inc.

N.S.R. RESOURCES Inc  
LAKE DUFault Project  
TOTAL FIELD MAGNETICS  
50 GAMMA CONTOURS  
SCALE 1" = 800'  
NTS 32D Feb 88  
— GÉRARD LAMBERT  
GEOSCIENCES



## LAC DUFault

: Weak Polarization Anomaly  
 : Strong Polarization Anomaly (Same zone with deep overburden?)

Ministère de l'Énergie et des Ressources  
Service de la Géoinformation

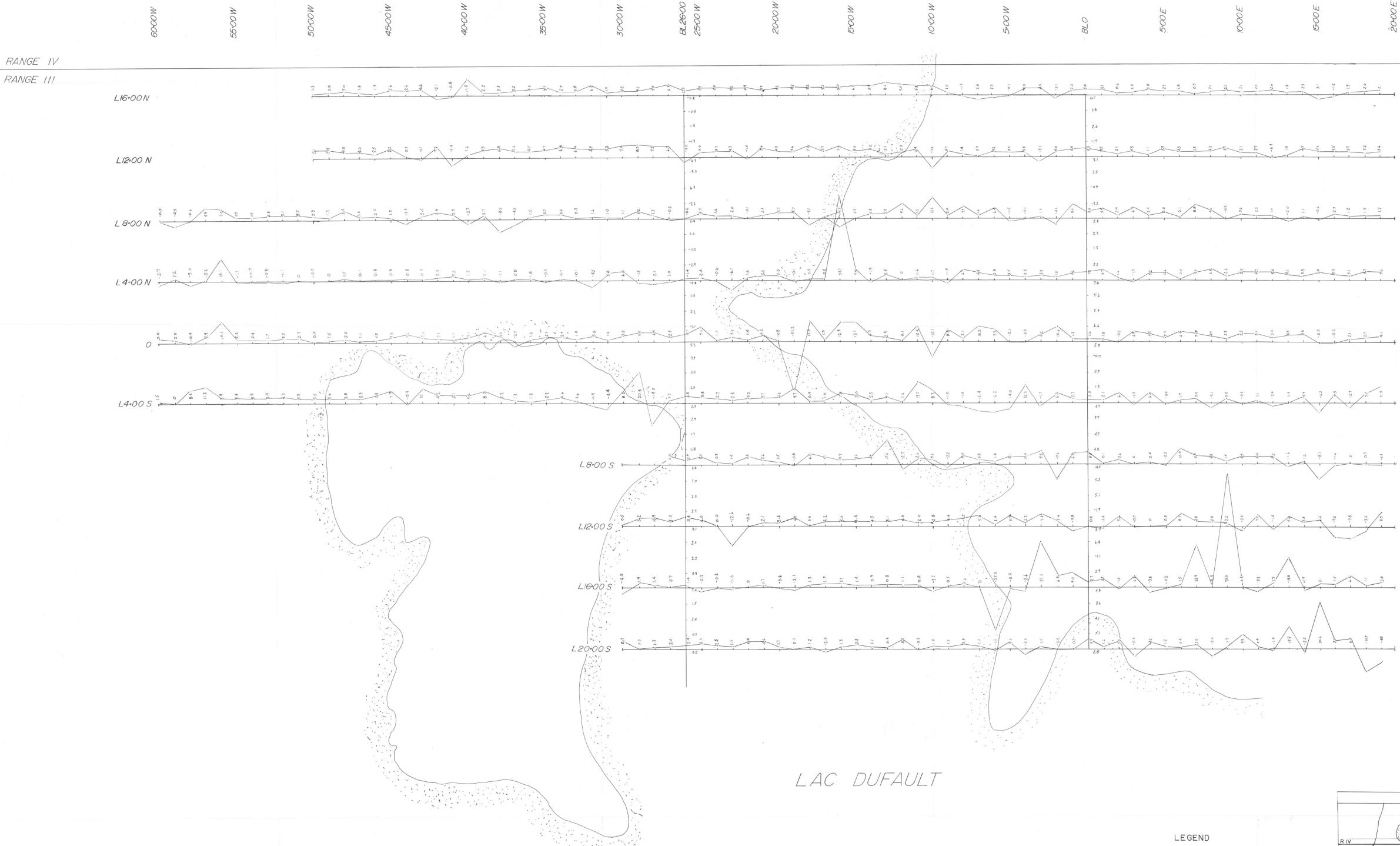
# LAKE DUFault PROJECT

## NEW SENATOR RESOURCES

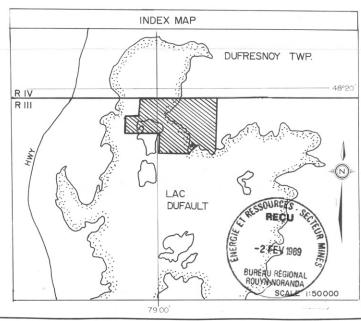
INDUCED POLARISATION SURVEY  
COMPILATION of ANOMALIES

DATE: NOVEMBER 1987  
DRAWING BY: A. LARONDE

APPROVED BY:  
INSTRUMENT:  
SCALE 1" = 200'  
50 100 200 300 400  

LEGEND  
VERTICAL SCALE 20 gammas = 1 inch  
20 0 -20



Ministère de l'Énergie et des Ressources  
Service de la Géologie et de l'Information  
Date 6 AVR 1969  
No G.M. 15072

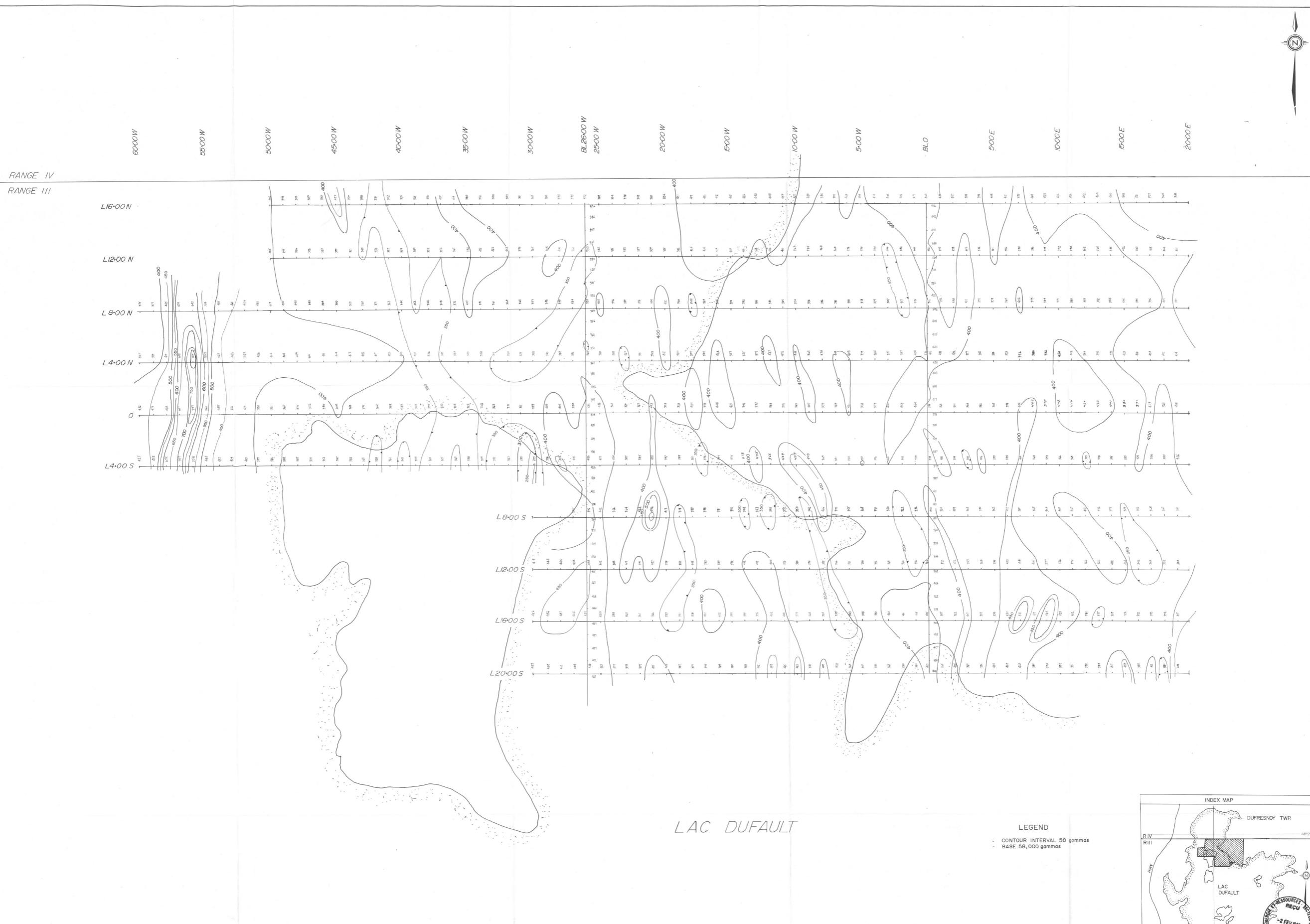
LAKE DUFault  
PROJECT

NEW SENATOR RESOURCES

MAGNETOMETER SURVEY  
GRADIENT

MEEGWICH INC

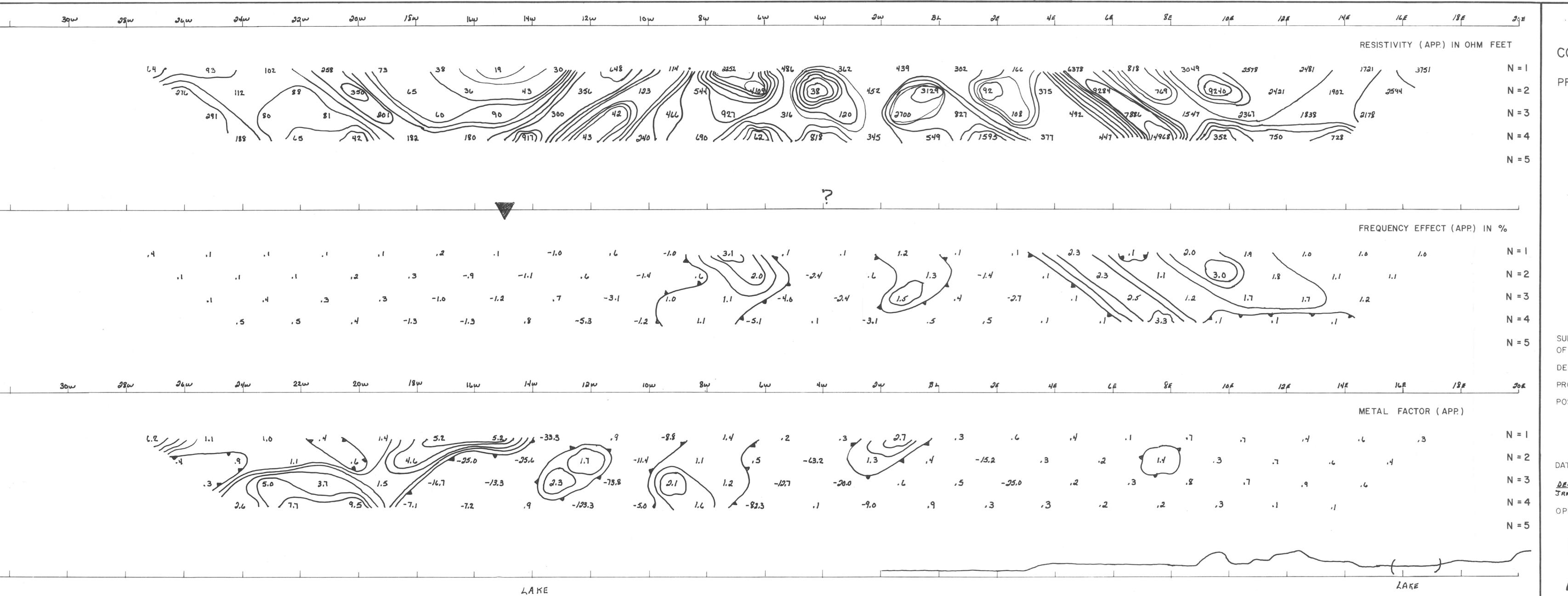
DATE: NOVEMBER 1967  
DRAWING BY: A. LARONDE  
APPROVED BY:  
INSTRUMENT:  
SCALE 1:200 300 400 ft.  
GRADIMETER  
SENSOR SEP. 0.5 ft.



Ministère de l'Énergie et des Ressources  
Service de la Géodéfinition  
Date 5 AVR 1989  
N° G.M. 45072

LAKE DUFALUT  
PROJECT

DATE: NOVEMBER 1987  
DRAWING BY: A. LAROCHE  
APPROVED BY: D. LAROCHE  
INSTRUMENT: EDA-OMNI IV  
SCALE: 1:20,000  
A 50 100 200 300 400  
2000 E



Ministère de l'Énergie des Ressources  
Service de la Géologie  
Date 5 AVR 1988  
N.M. 18372  
COMPANY: NEW SENSATOR RESOURCES  
PROPERTY: LAKE DUFFAULT PROJECT  
ROUYN-NORANDA PQ.  
LINE NO. 205

ELECTRODE CONFIGURATION  
PLOTTING POINT X = 200'

Weak Polarization Anomaly  
Low Resistivity Feature (Fracture zone with deep overburden?)

SURFACE PROJECTION OF ANOMALOUS ZONES

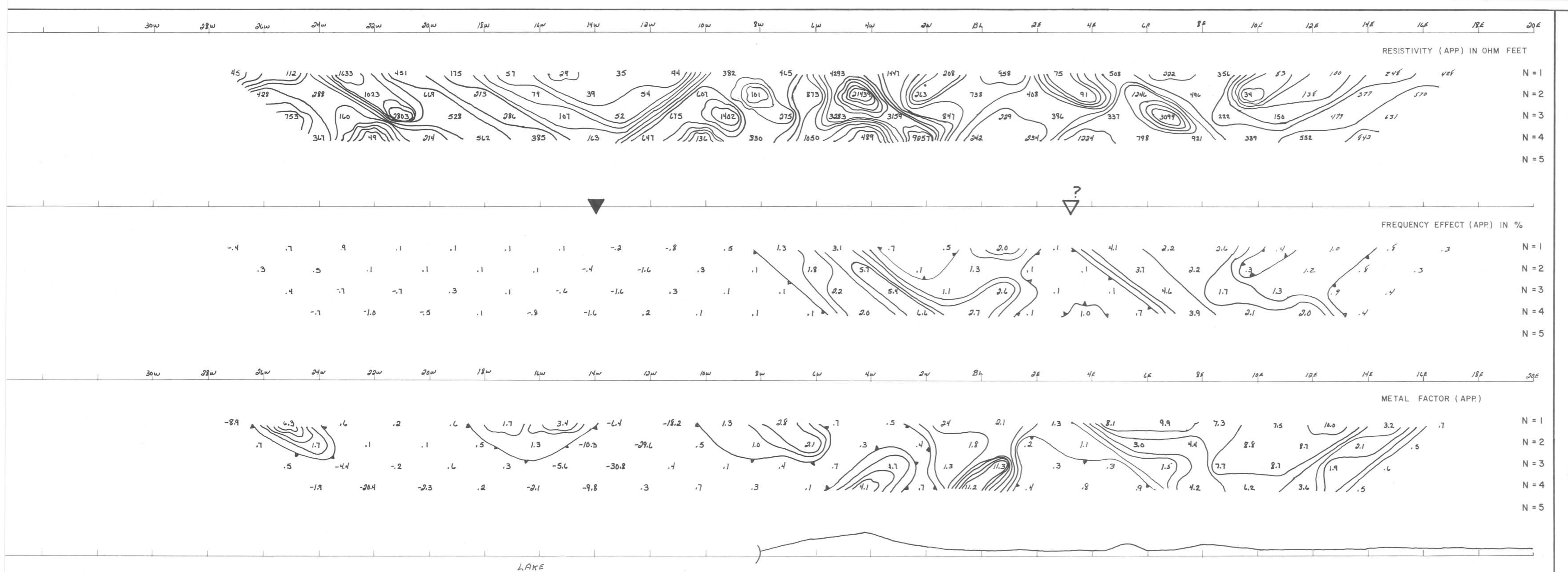
DEFINITE  
PROBABLE / / / /  
POSSIBLE / / / /

NOTE: CONTOURS AT LOGARITHMIC INTERVALS  
1, 1.5, 2, 3, 5, 7, 10, 20

INSTRUMENT: PHOENIX PPI-1  
CONTRACTOR: REMYBEAUGER ENGR.  
DATE SURVEYED: DEC. 22 - 1987  
APPROVED: G. L. Lambert  
OPERATOR: P. BAJBERT  
DATE: 31-12-1987

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY





Ministère de l'Énergie et des Ressources  
Service de la Géologie et des Mines  
Date: 25 A. 1981  
N.G.M.: 18072

COMPANY: NEW SENATOR RESOURCES

PROPERTY: LAKE DUFALUT PROJECT  
ROUYN-NORANDA PQ.

LINE NO. - 125 -

ELECTRODE CONFIGURATION  
N → X → N → X → ?

PLOTTING POINT → X 20'

□: Walk Polarization Anomaly  
▼: Low Resistivity Feature (Fracture zone with deep weathering?)

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE —

PROBABLE / / / /

POSSIBLE / / / /

NOTE: CONTOURS AT LOGARITHMIC INTERVALS  
1.5, 2, 3, 5, 7, 10

INSTRUMENT: PHOENIX IP-1  
CONTRACTOR: RÉMY BELANGER ENR. G

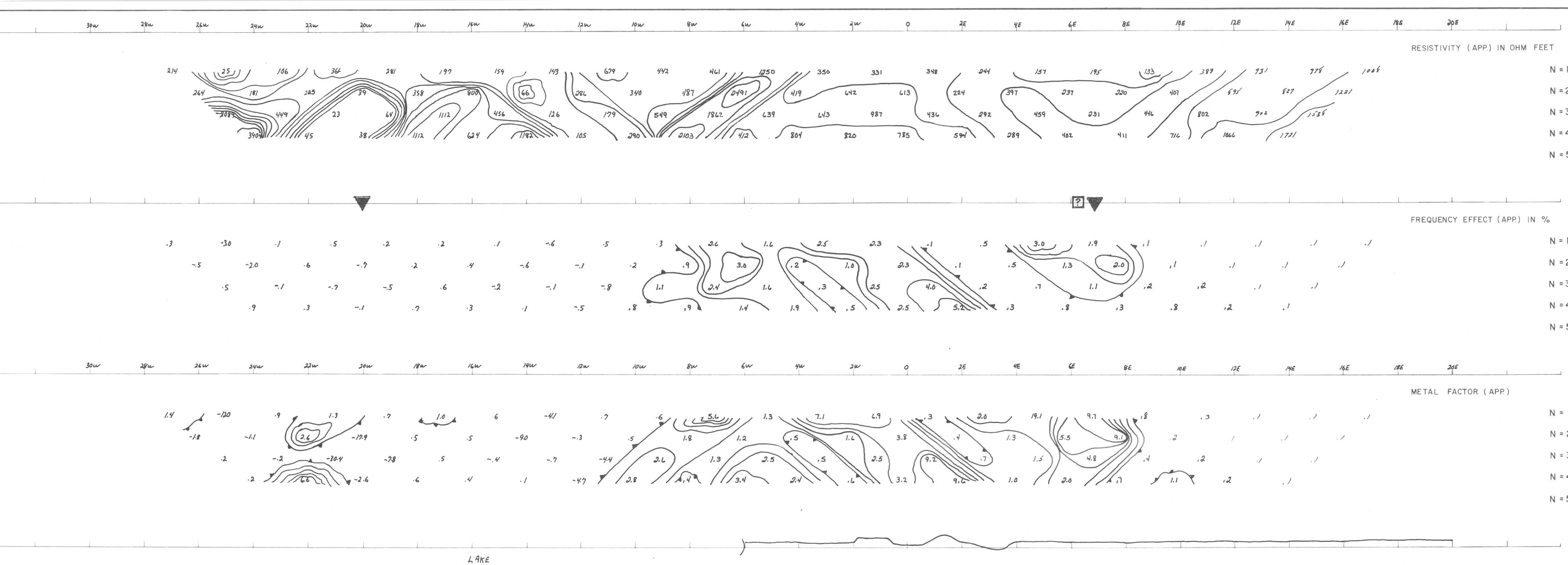
DATE SURVEYED: DEC. 12 - 1981  
JAN. 10 - 1982

APPROVED: *[Signature]* *[Circular stamp: Rémy Belanger Enr. G. Inc. 133-1742]*

OPERATOR: P. LAFIBERT

DATE: *[Signature]*

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY



Ministère de l'Énergie et des Ressources  
 Service de la Géoinformation  
 Date: 5 Avril 1989  
 No G.M.: 48072

**COMPANY: NEW SENATOR RESOURCES**

**PROPERTY: LAKE DUFault PROJECT**

**ROUYN-NORANDA PQ.**

LINE NO. - 8-5

ELECTRODE CONFIGURATION

PLOTTING POINT       $x = 200'$

Weak Polarization Anomaly  
 Low Resistivity Feature (Fracture Zone with deep overburden?)

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE                   

FREQUENCIES: 25 & 4.0 Hz.

PROBABLE               

NOTE: CONTOURS AT LOGARITHMIC INTERVALS  
 1, 1.5, 2, 3, 5, 7.5, 10.0

POSSIBLE               

INSTRUMENT : PHOENIX IPV-I  
 IPT-I

CONTRACTOR : REMY BELANGER ENRG.

DATE SURVEYED:

DEC-23- 1988  
JAN-10- 1988

OPERATOR: P. FAUBERT

APPROVED:

DATE:                   

*Gérard Labelle*  
 INGENIER - ENGINEER  
 33174  
 QUÉBEC

**INDUCED POLARIZATION  
 AND RESISTIVITY SURVEY**

Map showing Resistivity (APP) in ohm feet and Frequency Effect (APP) in % across a survey line from 60.0W to 20.0E. The map includes contour lines, property boundaries, and a lake indicator. A legend for surface projection of anomalous zones is provided.

Map showing Metal Factor (APP) across the same survey line. A lake indicator is present.

Geophysical log showing Induced Polarization and Resistivity Survey results. The log includes a frequency projection, surface projection, and a note on the presence of a lake.

Geological and survey details:

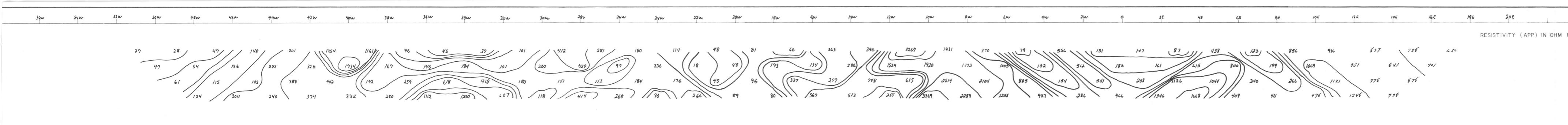
- Map: New Senator Resources, Lake Default Project, Rulyn-Noranda P.Q.
- Line No.: 759
- Electrode Configuration: X-N-X
- Piloting Point: X = 20'
- Weak Polarization Anomaly
- Low Resistivity Feature Zone with deep overburden
- Surface Projection of Anomalous Zones
- Frequency: 254.0 Hz
- Definite
- Probability: 1/11
- Note: Onorsat Logarithmic Intervals 1, 1.5, 2, 3, 5, 7, 10
- Instrument: PHENIX IP-1
- Contractor: REMY BELLANGER ENG.
- Date Surveyed: 12-23-1978
- Approved: 12-23-1978
- Operator: P. F. BELL
- Date: 12-23-1978

INDUCED POLARIZATION AND RESISTIVITY SURVEY

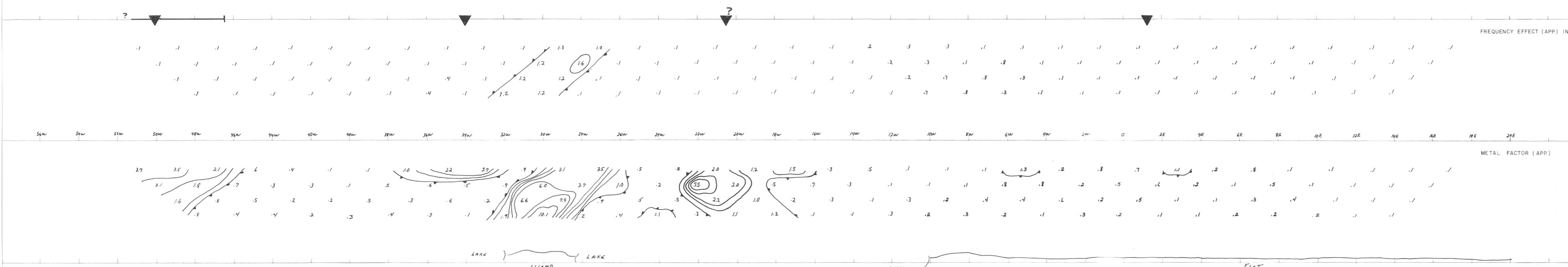








<p>FEET N = 1 N = 2 N = 3 N = 4</p>	<p>Ministère de l'Énergie et des Ressources Service de la Géoinformation Date: <u>5 AVR 1999</u></p> <p>No. G.M. <u>48672</u></p> <p><b>COMPANY: NEW SENATOR RESOURCES</b></p> <p><b>PROPERTY: LAKE DUFault PROJECT</b></p> <p><b>ROUYN - NORANDA P.Q.</b></p> <p>LINE NO. <u>12</u> 46</p>
---	---



LINE NO. 72-7V

N = 5

ELECTRODE CONFIGURATION

PLOTTING POINT      X = 200'

N = 1

N = 2

N = 3

N = 4

□ : Weak Polarization Anomaly  
 ▼ : Low Resistivity Feature (Fracture Zone with deep overburden?)

N = 5

SURFACE PROJECTION OF ANOMALOUS ZONES

FREQUENCIES: 25 & 4.0 HZ.

DEFINITE                   

PROBABLE                   

POSSIBLE                   

NOTE: CONTOURS AT LOGARITHMIC INTERVALS  
 1, 1.5, 2, 3, 5, 7.5, 10.0

N = 1

N = 2

N = 3

N = 4

INSTRUMENT: PHOENIX IPV-I  
 IPT-I

CONTRACTOR: REMY BELANGER ENRG

DATE SURVEYED: DEC-28-30-1987-  
JAN-16-1988-

APPROVED

OPERATOR: P. FAURERT

Geod. Engineer  
 Gerald Lambert  
 33724

# INDUCED POLARIZATION AND RESISTIVITY SURVEY

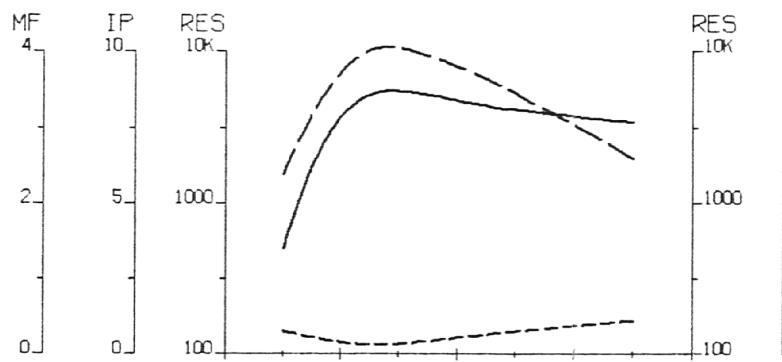
RESISTIVITY (APPARENT OHM FEET)

CONDUCTIVE      OVERBURDEN

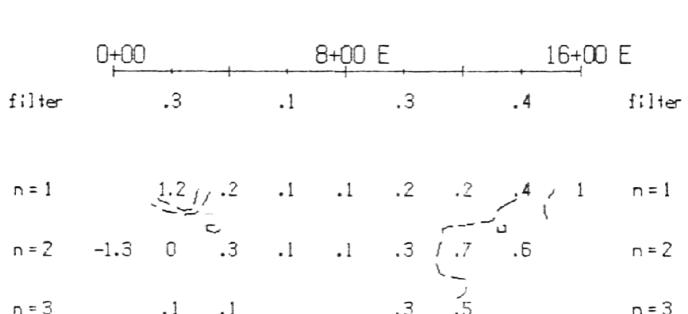
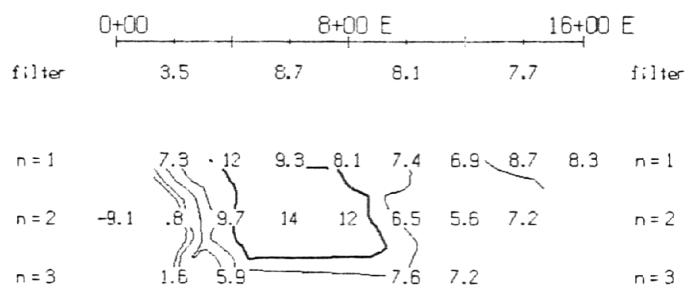
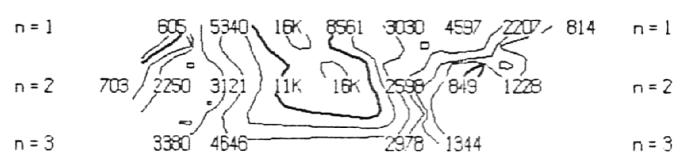
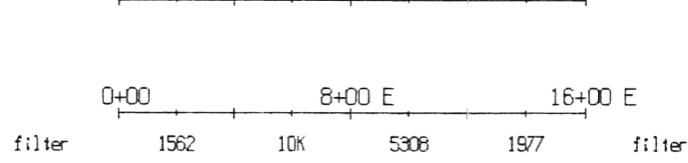
FREQUENCY EFFECT (APPARENT)

METAL FACTOR (APPARENT)

← LAKES →

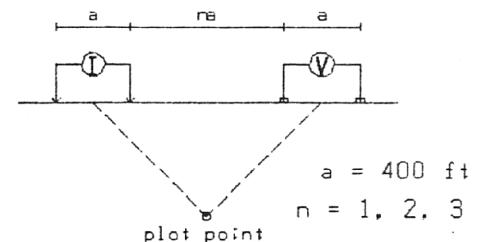


FILTERED PROFILES



## Line 16+00 S

### Dipole-Dipole Array



### TOPOGRAPHY

### Filtered Profiles

filter Resistivity  $\text{---}$   
 filter Polarization  $\text{—}$   
 filter M. Factor  $\text{-----}$

\*  
 \*\*  
 \*\*\*

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Ministère de l'Énergie et des Ressources

Instrument: PHOENIX IPV2, IPT1

Service de la Géoinformation

Frequency: 1 Hz

Date: 5 AVR 1988 Operator: Jacques Sawyer

No G.M.: 48072

### INTERPRETATION

PHASE  
(milli-rad)

- Strong increase in polarization accompanied by marked decrease in resistivity.
- Well defined increase in polarization without marked resistivity decrease.
- Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

### INTERPRETATION

### Induced Polarization Survey

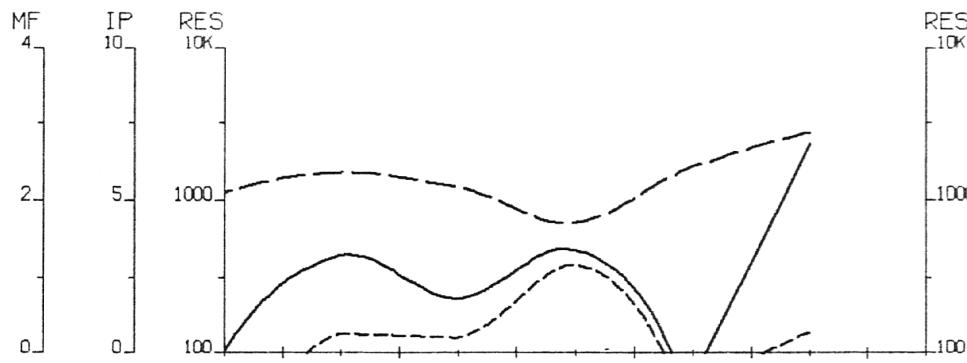
N.S.R. RESOURCES INC.

Lac Dufault project  
Dufresnoy township

Date: 88/02/15  
Interpretation by: G. Lambert Ing.  
Scale:

DETAIL

VAL D'OR GEOPHYSIQUE LTEE



FILTERED PROFILES

LAKE | O/C |

8+00 W 0+00 8+00 E  
filter 1108 1491 1211 713 1620 2722 filter

n=1 149 461 1009 332 1699 30K 417 1324 728 657 3055 1962  
n=2 2236 368 1173 1502 98 11K 2136 768 3315 2391 1804 1637  
n=3 2299 1303 363 4587 2210 1471

TOPOGRAPHY

RESISTIVITY  
(ohm-m)

filter  
\*  
\* \*  
\* \* \*

Logarithmic  
Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Ministère de l'Énergie et des Ressources

Service de la Géoinformation  
5 AVR 1989

Instrument: PHOENIX IPV2, IPT1  
Frequency: 1 Hz  
Operator: Jacques Sawyer

No G.M.: 48072

Filtered Profiles

8+00 W 0+00 8+00 E  
filter .1 3.2 1.8 3.4 -.8 6.8 filter

n=1 -1.9 3.6 4.2 3.1 5.8 16 11 12 -.9 .2 8.5 7.8  
n=2 3 4.2 2.5 7.3 2.2 24 -.7 -2.2 4.1 6.1 8.2 7.1  
n=3 1.8 8.3 (-12.1) 8.3 3.5 8.8

PHASE  
(mili-rad)

- Strong increase in polarization accompanied by marked decrease in resistivity.
- Well defined increase in polarization without marked resistivity decrease.
- Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

INTERPRETATION

8+00 W 0+00 8+00 E  
filter -.7 .3 .2 1.2 -.4 .3 filter

n=1 -1.3 .8 .4 1.9 .3 .1 2.7 .9 -.1 0 .3 .4  
n=2 .1 1.1 .2 .5 2.3 .2 -.0 -.3 .1 .3 .5 .4  
n=3 .1 .6 -3.2 .2 .2 .6

METAL FACTOR  
(ip/res \* 100)

Induced Polarization Survey

N.S.R. RESOURCES INC.

Lac Dufault project  
Dufresnoy township

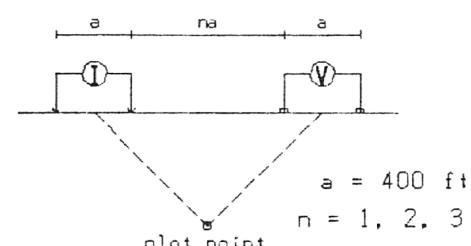
Date: 88/02/15  
Interpretation by: G. Lambert ing.  
Scale:

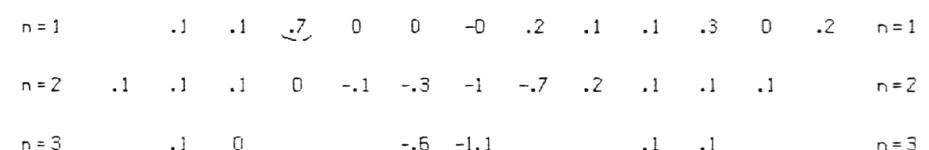
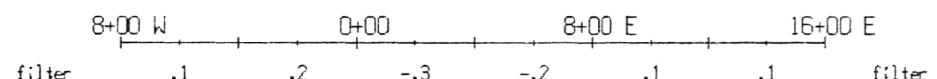
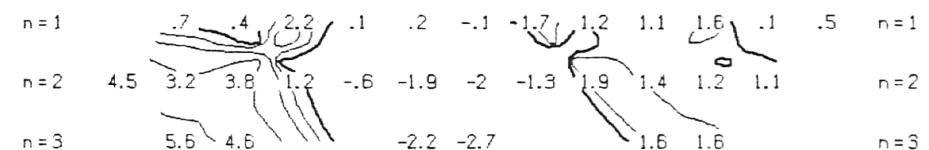
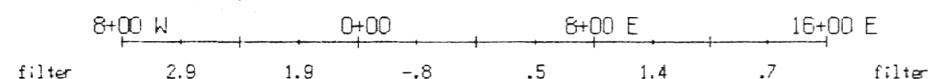
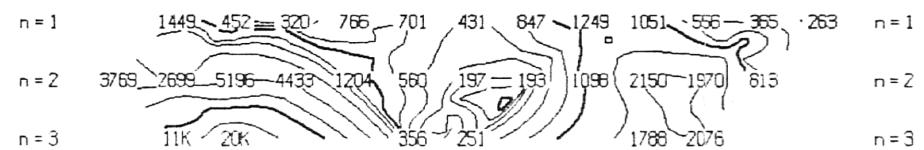
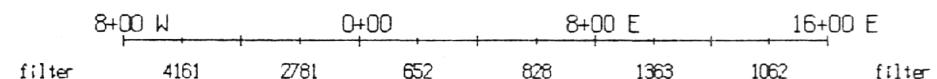
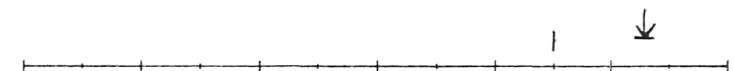
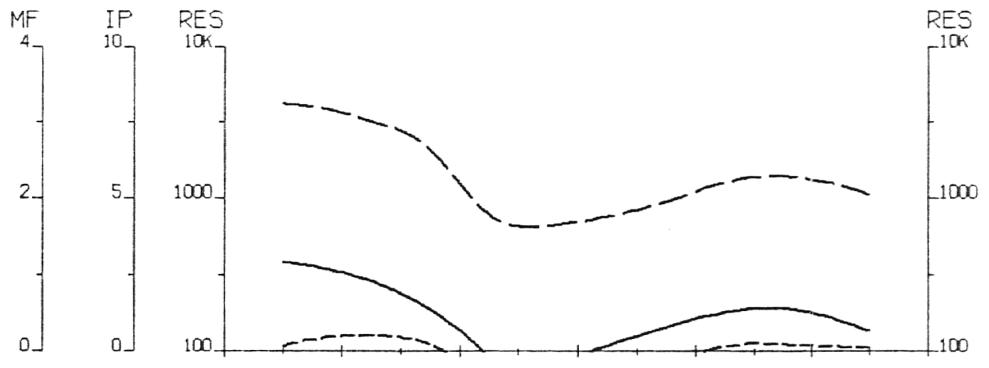
DETAIL

VAL D'OR GEOPHYSIQUE LTEE

Line 12+00 S

Dipole-Dipole Array





### FILTERED PROFILES

### TOPOGRAPHY

### RESISTIVITY (ohm-m)

Ministère de l'Énergie et des Ressources

Service de la Géoinformation

Date: 5 AVR 1989

No G.M.: 489?2

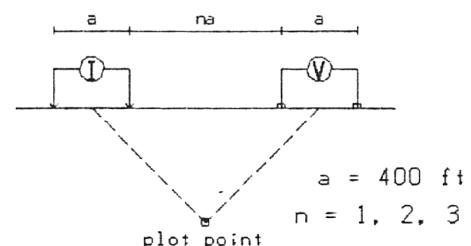
### PHASE (mili-rad)

### INTERPRETATION

### METAL FACTOR (ip/res \* 100)

## Line 4+00 N

### Dipole-Dipole Array



### Filtered Profiles

filter  
\*  
\*\*  
\*\*\*

Logarithmic  
Contours

Instrument: PHÉNIX IPV2, IPT1  
Frequency: 1 Hz

Operator: Jacques Sawyer

### INTERPRETATION

- Strong increase in polarization accompanied by marked decrease in resistivity.
- Well defined increase in polarization without marked resistivity decrease.
- Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

### Induced Polarization Survey

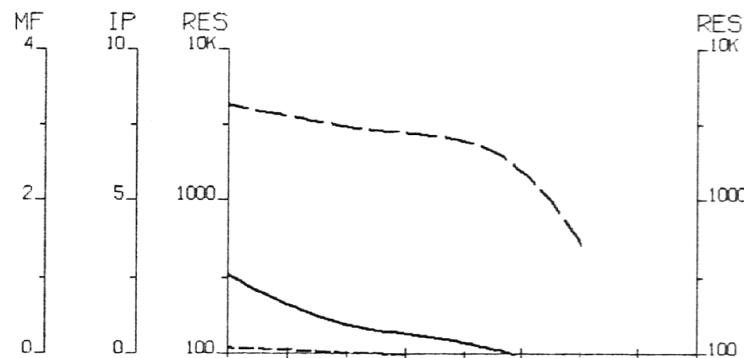
N.S.R. RESOURCES INC.

Lac Dufault project  
Dufresnoy township

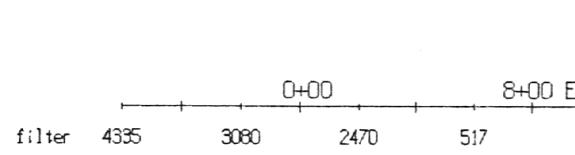
Date: 88/02/15  
Interpretation by: G. Lambert ing.  
Scale:

DETAIL

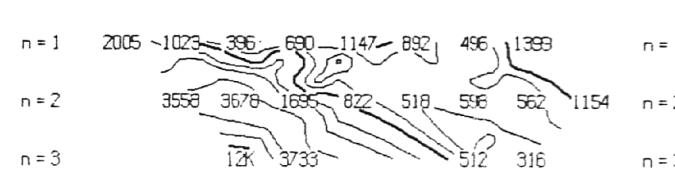
VAL D'OR GEOPHYSIQUE LTEE



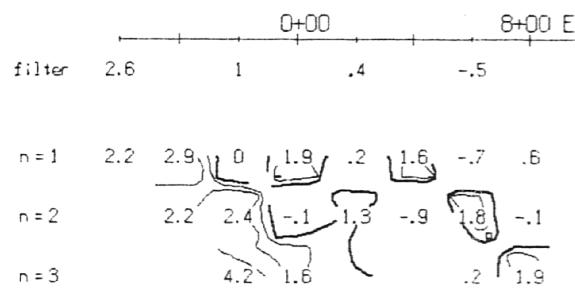
FILTERED PROFILES



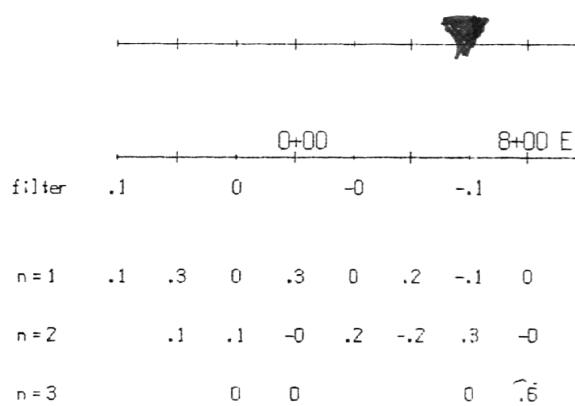
TOPOGRAPHY



RESISTIVITY  
(ohm-m)



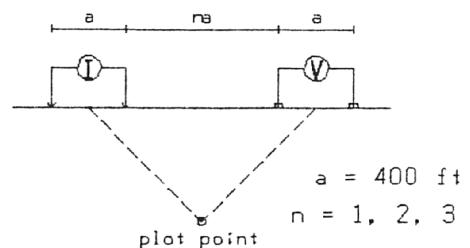
PHASE  
(milli-rad)



INTERPRETATION  
METAL FACTOR  
(ip/res \* 100)

## Line 8+00 N

### Dipole-Dipole Array



### Filtered Profiles

Resistivity \*  
Polarization \*\*  
M. Factor \*\*\*

Logarithmic 1, 1.5, 2, 3, 5, 7.5, 10, ...  
Contours

Ministère de l'Énergie et des Ressources

Service de la Géoinformation

5 AVR 1989

Date:

No G.M.: 48072

Instrument: PHOENIX IPV2, IPT1

Frequency: 1 Hz

Operator: Jacques Sawyer

### INTERPRETATION

- Strong increase in polarization accompanied by marked decrease in resistivity.
- Well defined increase in polarization without marked resistivity decrease.
- Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

### INTERPRETATION

## Induced Polarization Survey

N.S.R. RESOURCES INC.

Lac Dufault project  
Dufresnoy township

Date: 88/02/15  
Interpretation by: G. Lambert Ing.  
Scale:

DETAIL

VAL D'OR GEOPHYSIQUE LTEE