



42C16SW9700 2.15225 LIZAR

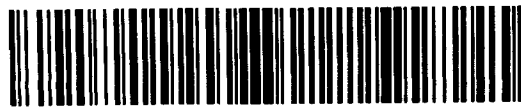
010

HEMLO GOLD MINES INC.
1993 GEOPHYSICAL SURVEY
KABI LAKE GRID
NORTHWESTERN ONTARIO DISTRICT
NTS 42C/15
Prepared by:
NORANDA EXPLORATION COMPANY, LIMITED

2.15225

PROJECT NO. 1382
HEMLO, ONTARIO
AUGUST, 1993

GREG HODGES
GEOPHYSICIST



42C16SW9700 2.15225 LIZAR

010C

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1.0 INTRODUCTION

A geological and geophysical survey has been completed on the Kabi Lake grid. The purpose of this program was to delineate the extent of known mineralized zones as well as find new targets. Both magnetics and IP surveys were conducted with several anomalous zones being delineated. Extensive sampling has previously been performed on the property and has yielded values up to 621 gpt Au. Many of these assays appear to be associated with quartz veins.

2.0 LOCATION AND ACCESS

Kabi Lake is located approximately 50 miles northeast of White River. The grid itself is located on the western portion of Kabi Lake along the Bear Creek inlet. (Figure 1)

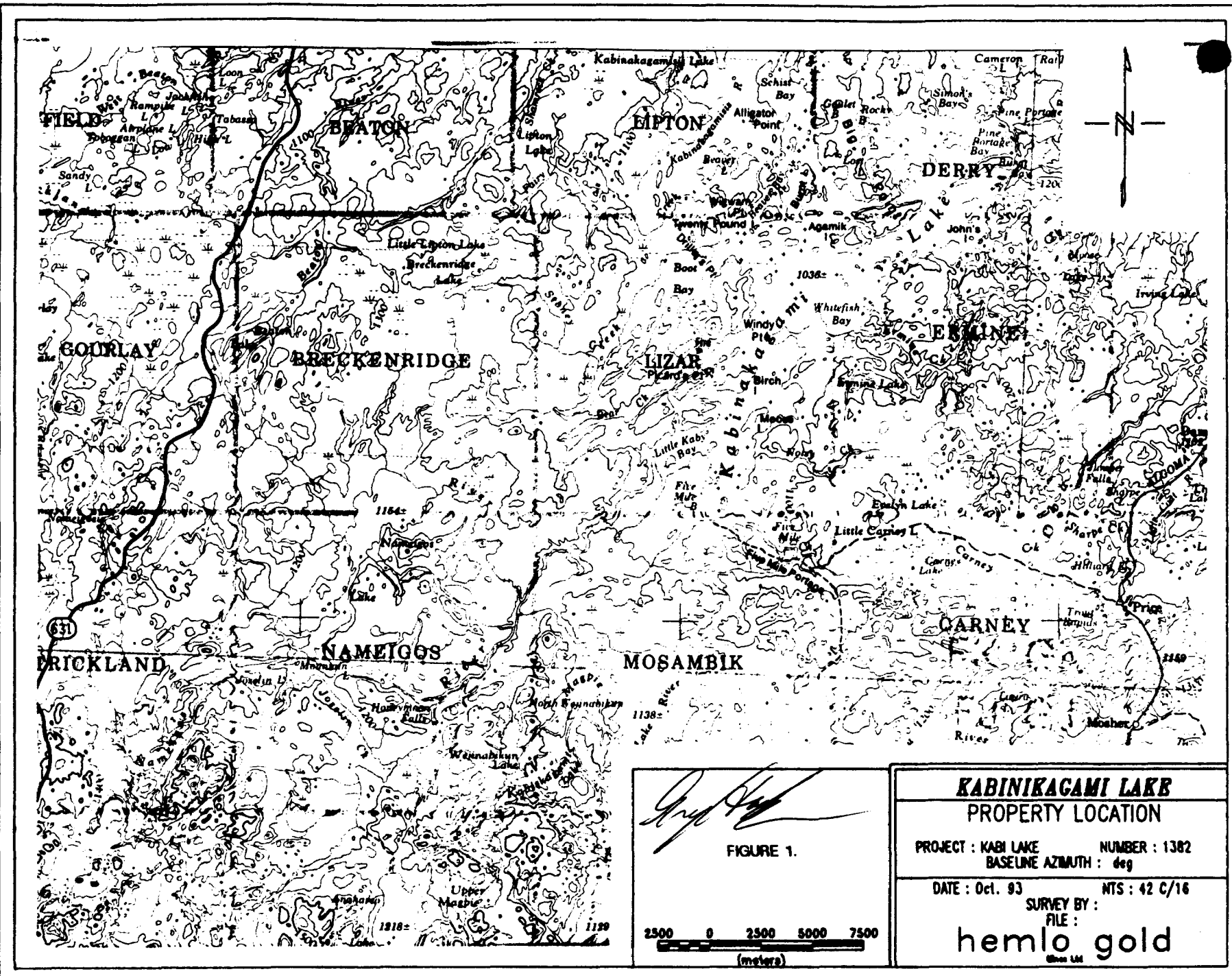
Access to the property is gained via float plane out of either White River or Wawa, or by helicopter. A logging road comes within 3 km of the grid.

3.0 CLAIMS

The property consists of 18 contiguous claims, staked in September, 1986 and held by D. McKinnon and 11 claims comprising 92 units staked in October and November 1992 and held by Hemlo Gold Mines (Figure 2).

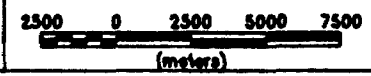
The claims are :

| NUMBER | # | RECORDED |
|-----------------|----------|----------|
| P934242-P934245 | 4 | 86/09/22 |
| P934247 | 1 | 86/09/22 |
| P934251-P934254 | 4 | 86/09/22 |
| P934259-P934262 | 4 | 86/09/22 |
| P934268-P934271 | 4 | 86/09/22 |
| P934742 | 1 | 86/07/28 |
| SSM 1189565 | 9 | 92/11/12 |
| SSM 1189567 | 4 | 92/11/13 |
| SSM 1190521 | 12 | 92/10/21 |
| SSM 1190522 | 2 | 92/10/21 |
| SSM 1190523 | 6 | 92/10/21 |
| SSM 1190524 | 16 | 92/10/21 |
| SSM 1190525 | 16 | 92/10/21 |
| SSM 1190526 | 16 | 92/10/21 |
| SSM 1190971 | 4 | 92/11/06 |
| SSM 1190974 | 6 | 92/11/06 |
| SSM 1190977 | <u>1</u> | 92/11/06 |
| TOTAL | 110 | |



[Handwritten Signature]

FIGURE 1.

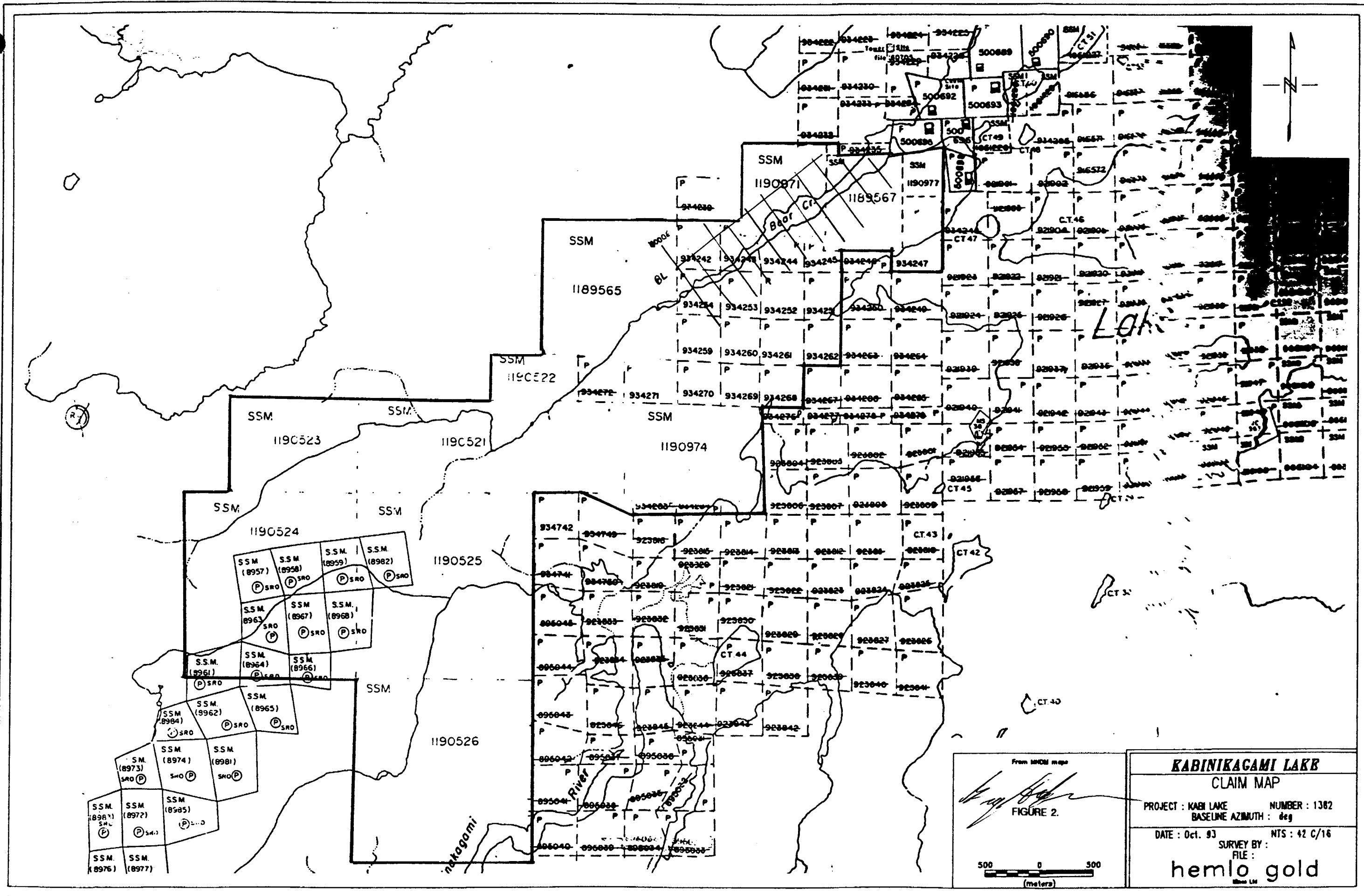


**KABINIKAGAMI LAKE
PROPERTY LOCATION**

PROJECT : KABI LAKE NUMBER : 1382
BASELINE AZIMUTH : deg

DATE : Oct. 93 NTS : 42 C/16
SURVEY BY :

FILE :
hemlo gold



KABINIKAGAMI LAKE
CLAIM MAP

PROJECT : KABI LAKE NUMBER : 1382
 BASELINE AZIMUTH : deg

DATE : Oct. 93 NTS : 42 C/16
 SURVEY BY :
 FILE :

hemlo gold

From MDM maps

[Signature]

FIGURE 2.

500 0 500
 (meters)

4.0 PREVIOUS WORK

In the 1930's, a small scale mining operation was initiated (Hiawatha Mine). It ran for a few years before being shut down.

Between 1987-1988, prospecting and mapping was conducted on the claims with significant amounts of sampling done. Soil sampling was conducted along with whole rock sampling. Lines were cut previous to work being conducted.

In the summer of 1993, a mapping program was conducted to get a better feel for felsic units within the mafics. It was uncertain as to the extensive or intrusive nature of these units. At some time a geophysical program consisting of both Mag and IP surveys were initiated to help delineate possible drill targets.

5.0 REGIONAL GEOLOGY

The Kabi Lake property lies within the Kabi lake Greenstone Belt, a northeast trending belt of supracrustal lithologies which have been regionally metamorphosed to a mid-to-upper amphibolite facies. These lithologies have been intruded by felsic synvolcanic porphyries which appear to be parallel to stratigraphy.

The Kabi Lake Greenstone Belt is believed to represent the eastern extension of the Hemlo syncline.

6.0 PROPERTY GEOLOGY

The property is underlain primarily by a northeasterly trending sequence of mafic volcanics intruded by high level QFP sills. These units are steeply dipping and appear to be moderately foliated, range from S_1 to S_2 with S_3 being intensely sheared.

The youngest rock appear to be mafic intrusives (gabbro), found predominantly along the north shore of Bear Creek, but can also be found intruding the mafic volcanics south of Bear Creek.

The mafic volcanics range from pillowed basalts to tuffs, they are typically fine grained and are commonly chloritized. Quartz stringers are common. North of Bear Creek, the mafics are moderately metamorphosed up to amphibolite facies. It appears some coarse grained flows can be found.

Most of the QFP sills appear to be syngenetic with the mafic volcanics. They are medium grained and commonly contain blue quartz eyes. Quite often they are silicified and contain abundant quartz stringers and quartz veins. These units are what appear to be carrying the gold. The sills range anywhere from 2m to 75m in width and are commonly mineralized with both pyrite and chalcopyrite. Molybdenite is also present in trace amounts. Silicification of this unit appears to be the key in obtaining any kind of gold values.

● Ultramafic units also appear to be present as shown by previous wholerock sampling. This is especially evident along the northshore of Bear Creek where silica values are as low as 42%.

Sampling done in the summer of 1993 failed to yield any significant gold values. This could be attributed to the erratic nature of most quartz vein when gold is involved.

7.0 GEOPHYSICAL SURVEY METHOD

7.1 Magnetics

A magnetic survey measures alterations in the earth's naturally occurring magnetic field caused by changes in the magnetization of the rocks in the earth. These changes are due mainly to the presence of the magnetic minerals: magnetite and to a lesser extent pyrrhotite and ilmenite. Mapping these minerals can be an aid to geologic mapping.

The magnetic data were collected with a proton precession magnetometer, which measures the absolute value of the total magnetic field of the earth to an accuracy of ± 0.1 nTesla. Readings are normally taken at 12.5m intervals. Correction for diurnal drift was by reference to a base station magnetometer.

The magnetometer used was a GEM GSM-19.

7.2 Induced Polarization

Induced polarization (IP) and resistivity exploration methods are used to measure the electrical characteristics of the local geology.

An electric voltage is applied to the earth in the form of an on off on-negative off wave. The voltage measured while the current is on is used to calculate the resistivity (resistance to electric current), and the decaying voltage during the off time measures the amount of electric charge that the earth can hold.

This charge is held by metallic minerals, and also by clay-like minerals.

Because IP responds to effects on small metallic particles, it is particularly useful for detecting disseminated metallic minerals.

The survey was conducted using a pole-dipole array with a dipole length of 25m and array spacings of $n = 1, 2, 3, 4$ dipoles. This array uses a single transmitter electrode on the grid, and a series of pairs of receiver electrodes spaced at each 'n' interval. The other current electrode is situated 1 kilometre or more from the grid, for this survey along the shore of the lake.

The receiver used was a Scintrex IPR-8, accurate to about 1mV/V chargeability. The transmitter used was a Phoenix IPT-1 3.0kW system with a two second on-time.

8.0 SURVEY STATISTICS

Approximately 12.0km of IP surveying was completed in two phases. A crew from Rayan Exploration of Timmins, Ontario started the project in March 1993, but were forced to quit after 1.7km of surveying due to break-up. A Noranda Exploration crew started work again in June and completed the survey. The Rayan crew was supervised by Ray Meikle of Rayan, Hollinger Bldg, Timmins, and the Noranda crew by Rod Swire of Noranda Exploration, 960 Alloy Dr., Thunder Bay. Overall supervision was by Greg Hodges, Noranda Exploration, Thunder Bay.

The Noranda crew also surveyed 8.7km of magnetics at 12.5km stations.

9.0 INTERPRETATION

The magnetic data showed a strong feature on the north end of most of the lines, reflecting the presence of the mafic-ultramafic volcanics there. Other smaller highs probably reflect diabase dikes, such as have been mapped on the grid.

The induced polarisation data showed a continuous, strong chargeability anomaly across the north end of all the lines, at the edge of the strong magnetic anomaly. Another moderate to strong anomaly lies on the south edge of the two local highs which seem to extend south of the broader high, at 9800N on 10400E to 10800E, and at 9900N on 11800E to 12000E.

A narrow, but still moderate to strong anomaly crosses from 11000E to 11800E at 9300N, and another at 9200N on 11200E and 11400E. Both of these are cut off on their east ends by the grid edge. Another moderate to strong anomaly is at 9300N on 10400E.


10.0 CONCLUSIONS AND RECOMMENDATIONS

The geology mapping in the area of the IP zones detected some sulphide (1-3%) in the area of the anomalies. The strengths of 20 to 30mV/V suggests that there is considerably more sulphide there. Such sulphide is usually part of an alteration zone which is softer than the surrounding rock, and hence lies in the topographic lows.

If the geology in the area is favourable, extension of these lines to the north is recommended to complete the anomalies and look for adjacent zones. At this stage they are detailed enough for a drill hole to be targeted on most lines.

Respectfully submitted,

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)


Greg Hodges
District Geophysicist
Northwest Ontario District

Hemlo, Ontario
August, 1993

STATEMENT OF QUALIFICATIONS

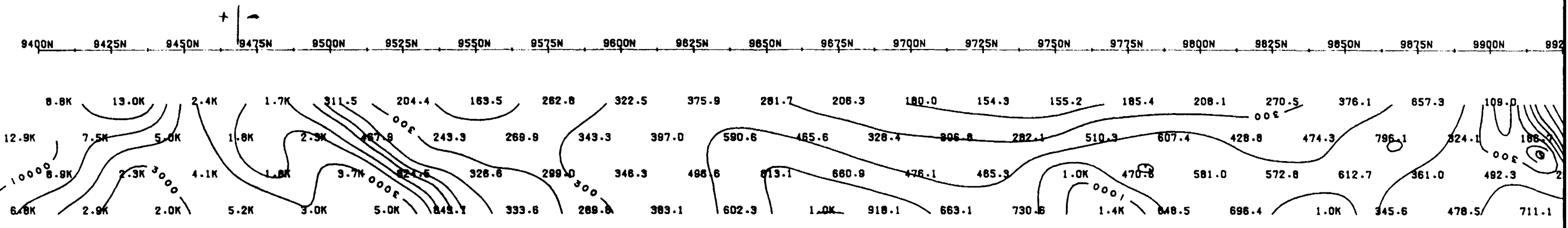
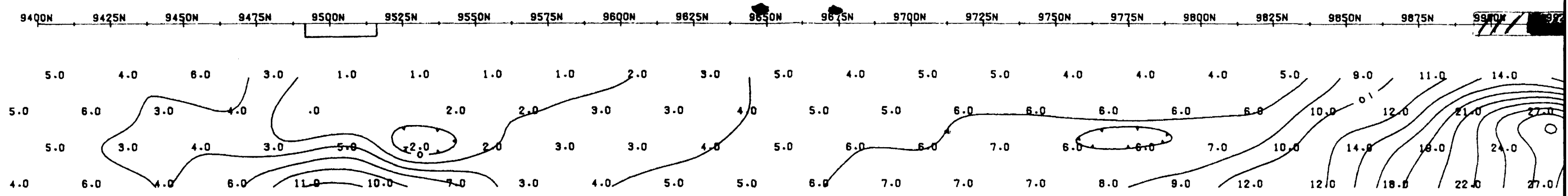
I, D. Greg Hodges, of 960 Alloy Drive, in the city of Thunder Bay, Province of Ontario, certify as follows concerning my report on the Kabinikagami Lake in Lizar Township, Province of Ontario and dated November 11, 1993.

1. I am a graduate of Queen's University at Kingston, Ontario with a B.Sc. (Hons.) Geological Sciences with Physics, obtained in 1980.
2. I have been practicing in Canada, and occasionally in the United States, Europe, and Australia for the past fourteen years.
3. The attached report is a product of:
 - a) Examination of data included in the report which was collected on the property concerned.

Dated this 12 day of November, 1993.
Thunder Bay, Ontario



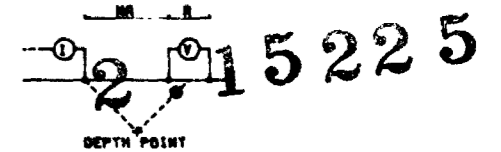
D. Greg Hodges, Geophysicist



LINE : 120 E

INDUCED POLARIZATION SURVEY

POLE-DIPOLE ARRAY



N = 1, 2, 3, 4, ...
"A" SPACING = 25.0 METRES

INSTRUMENT: BRGM IP-2
TIME DOMAIN, 2 SEC ON-OFF
WINDOW PLOTTED = #3

[Signature]
NORANDA EXPLORATION

KABI LAKE

LIZAR TWP.

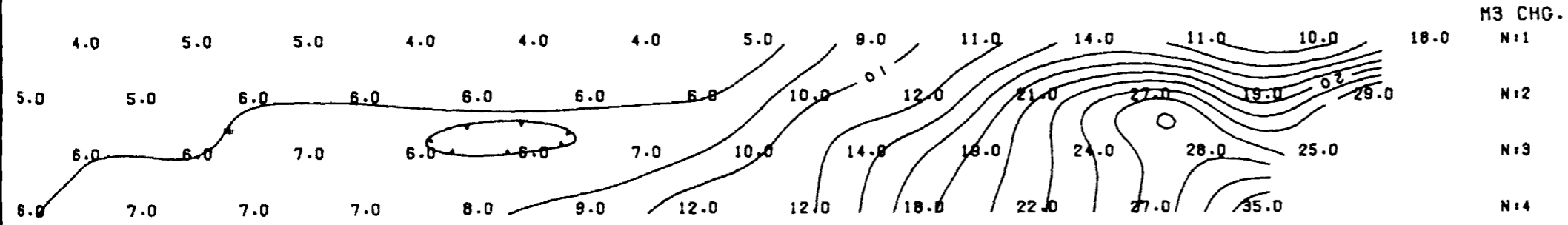
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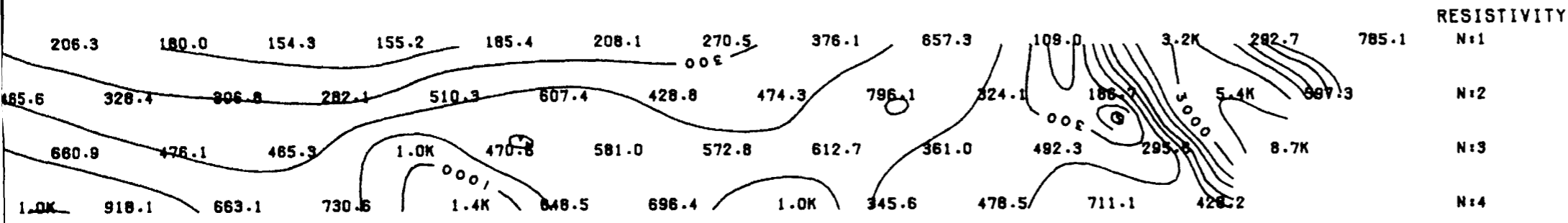
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RAYAN EXPLORATION LTD

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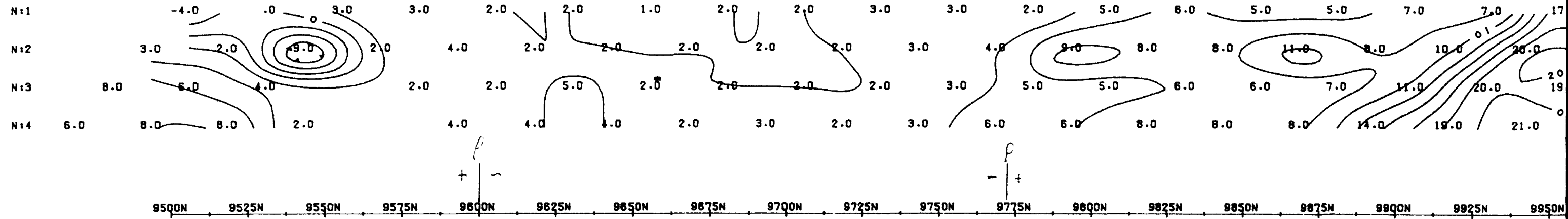


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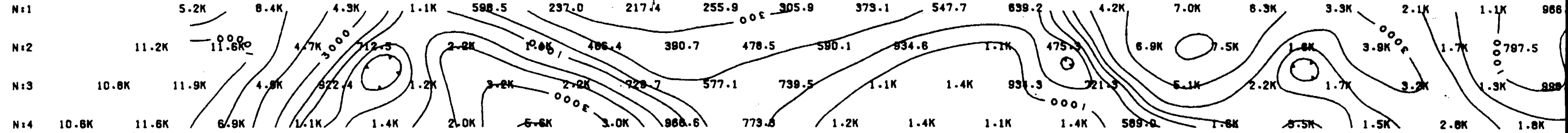


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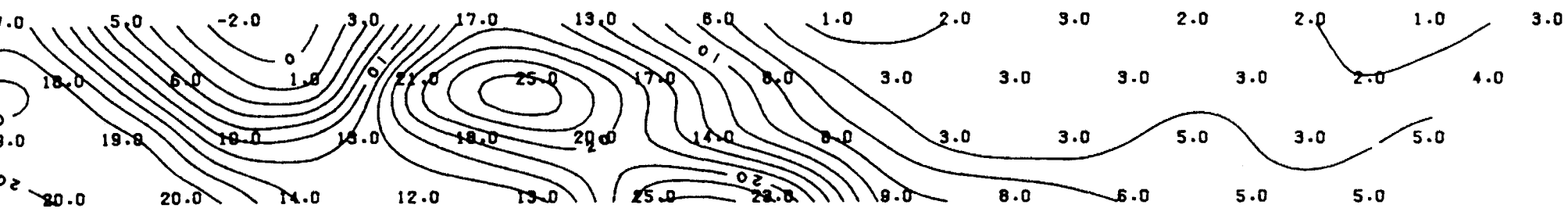
M3 CHG.



RESISTIVITY

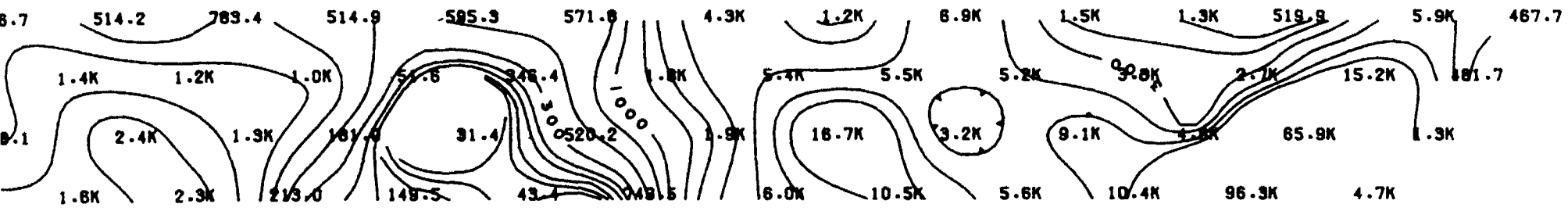


9975N 10000N 10025N 10050N 10075N 10100N 10125N 10150N 10175N 10200N 10225N 10250N 10275N



M3 CHG.
N:1
N:2
N:3
N:4

9975N 10000N 10025N 10050N 10075N 10100N 10125N 10150N 10175N 10200N 10225N 10250N 10275N



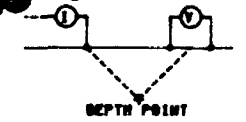
RESISTIVITY
N:1
N:2
N:3
N:4

LINE : 10000E

INDUCED POLARIZATION SURVEY

POLE-DIPOLE ARRAY

2.15225



N = 1, 2, 3, 4, ...
"A" SPACING = 25.0 METRES

INSTRUMENT: BRGM IP-2
TIME DOMAIN: 2 SEC ON-OFF
WINDOW PLOTTED = #3

NORANDA EXPLORATION

KABI LAKE

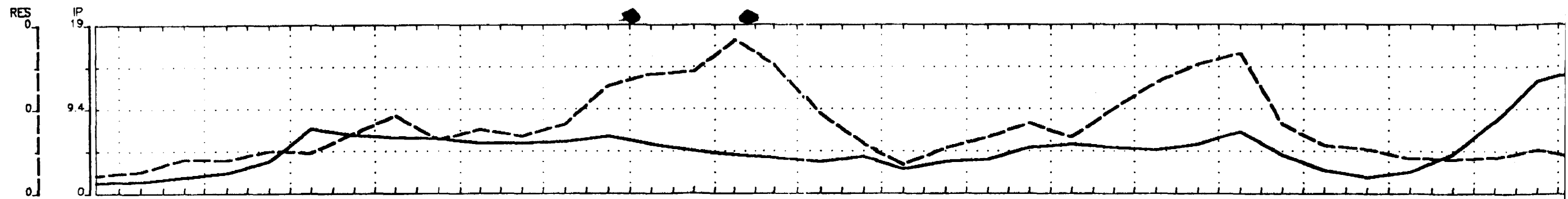
LIZAR TWP.

DATE : MARCH 1993

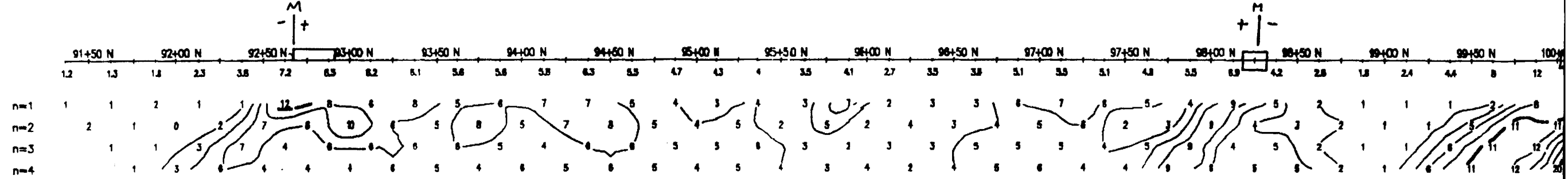
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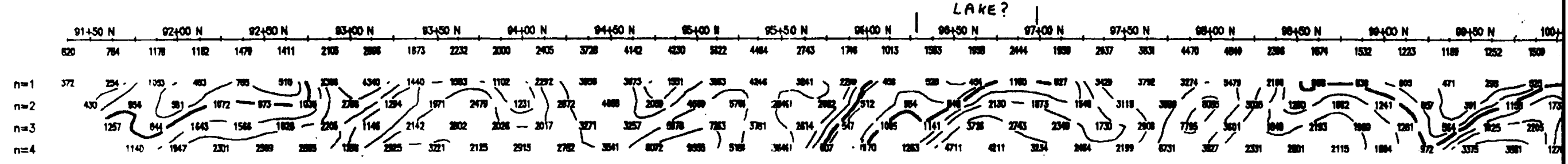
RAYAN EXPLORATION LTD

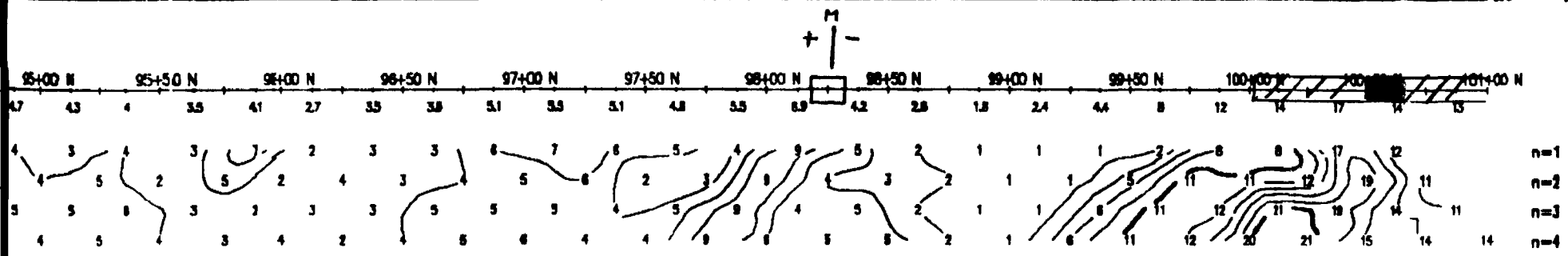
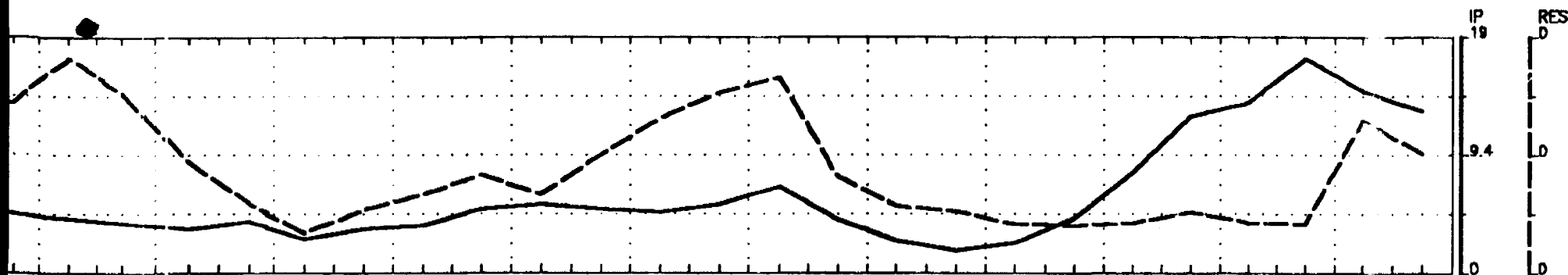


CHARGEABILITY
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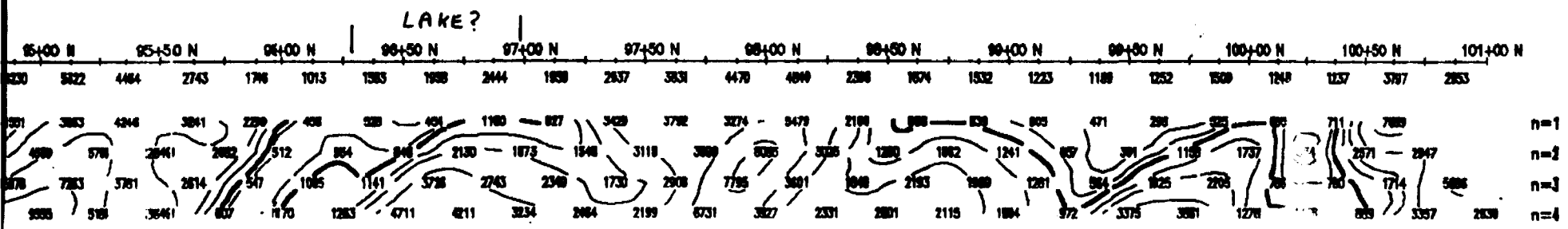


APPARENT
RESISTIVITY
ohm-m

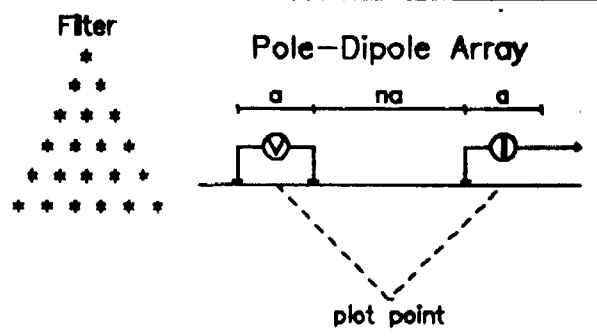




CHARGEABILITY
mV/V

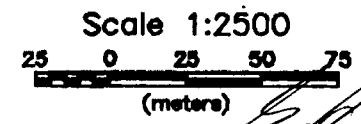


APPARENT
RESISTIVITY
ohm-m



DIPOLE LENGTH : $a=25m$
 DIPOLE SPACINGS : $n = 4$
 WINDOW : Total
 CHARGEABILITY
 Interval 2%, 10%
 RESISTIVITY
 Logarithmic 1, 1.5, 2, 3, 5, 7.5, 10,..
 INSTRUMENTS
 RECEIVER : IPR-8
 TRANSMITTER : IPT-1

2.15225



KABI LAKE

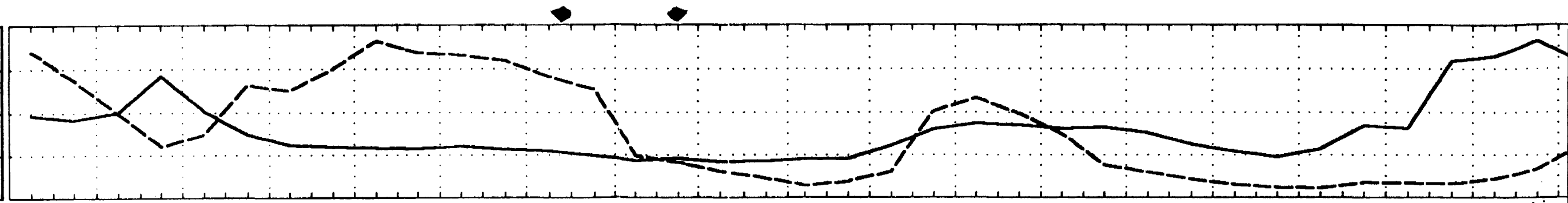
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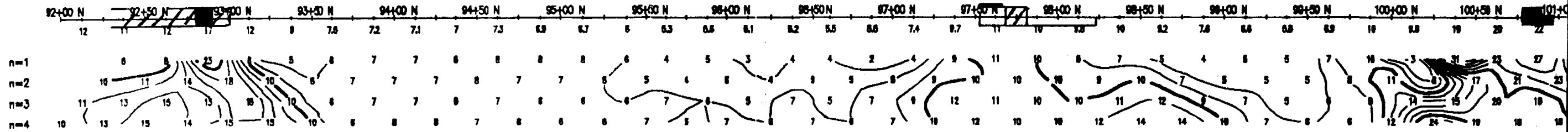
Date : JUNE 1993
 Property : KABI
 NTS : 42 C/16
 Survey by : Noranda Expln

hemlo gold
 Mines Ltd

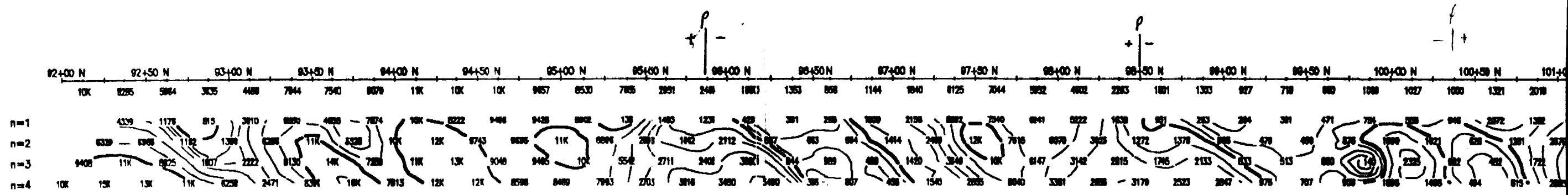
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IP
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0 0

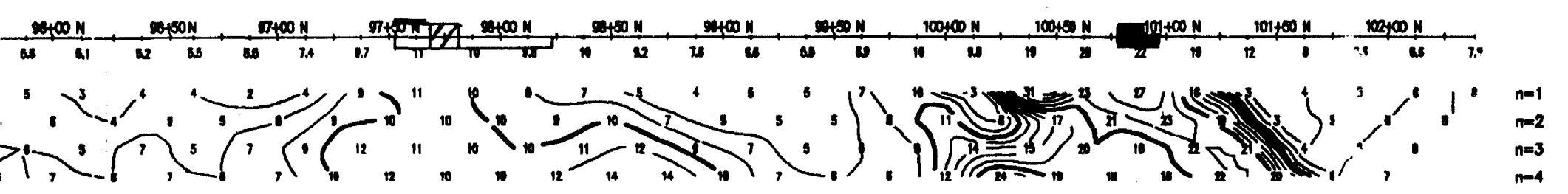
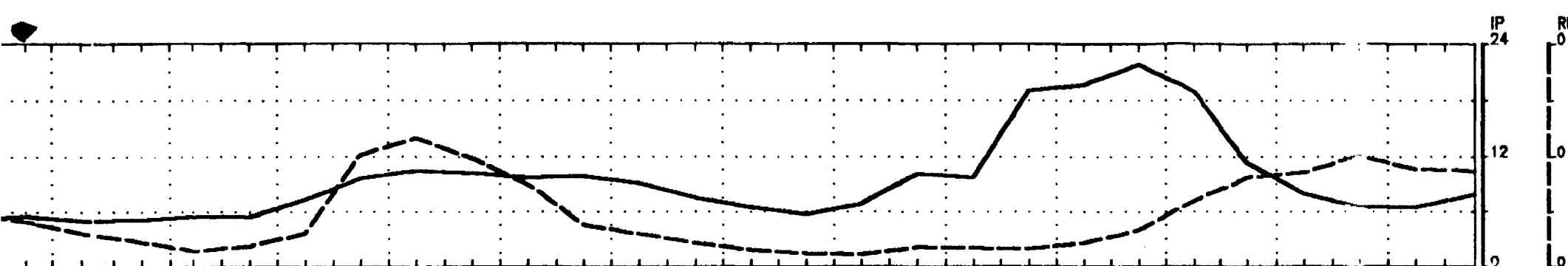


CHARGEABILITY
mV/V

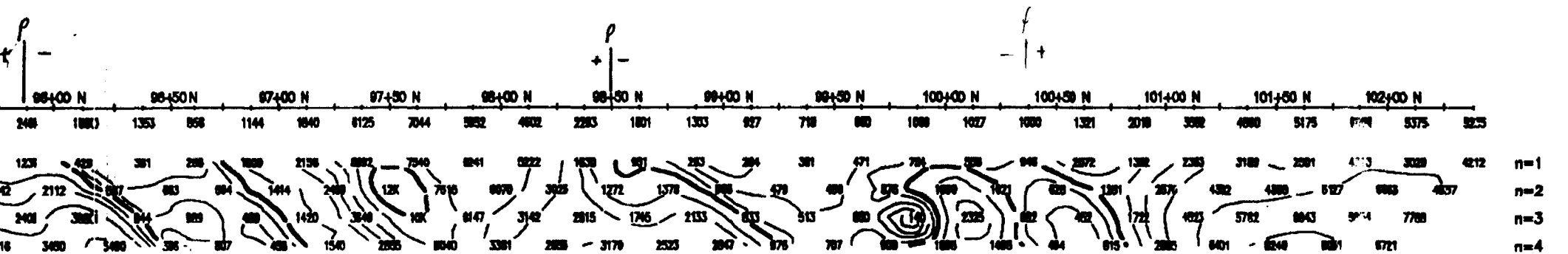


APPARENT
RESISTIVITY
ohm-m

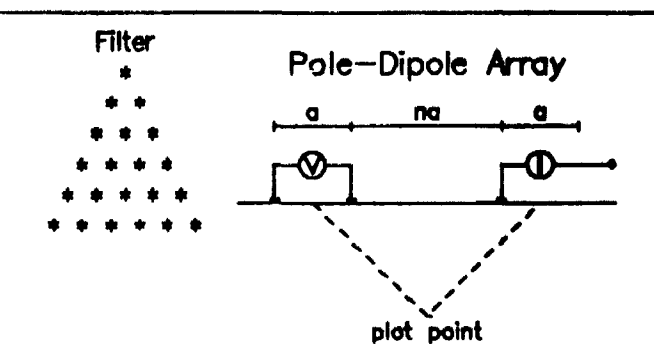




CHARGEABILITY
mV/V

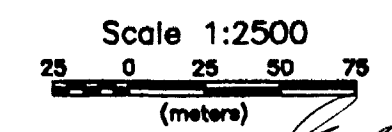


APPARENT
RESISTIVITY
ohm-m



DIPOLE LENGTH : $a=25m$
DIPOLE SPACINGS : $n = 4$
WINDOW : Total

CHARGEABILITY
Interval 2%, 10%
RESISTIVITY
Logarithmic 1, 1.5, 2, 3, 5, 7.5, 10, ...
INSTRUMENTS
RECEIVER : IPR-8
TRANSMITTER : IPT-1



KABI LAKE

INDUCED POLARISATION

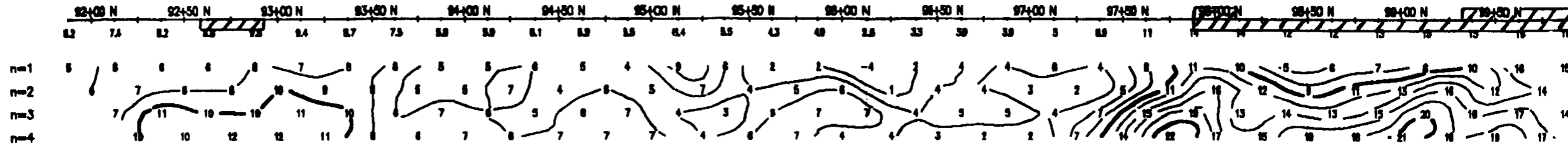
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Date : JUNE 1993
Property : KABI
NTS : 42 C/16
Survey by : Noranda Expln

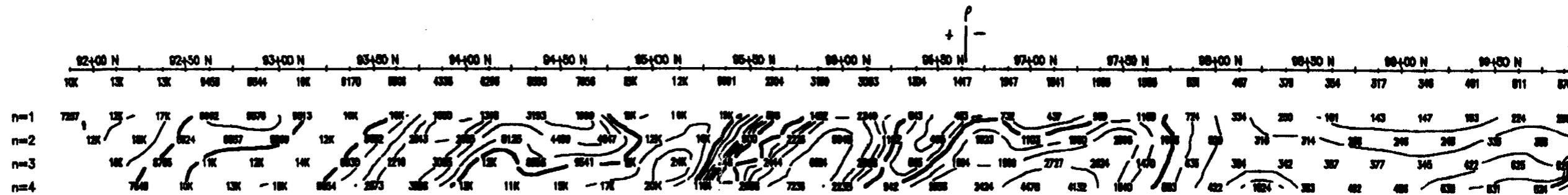
hemlo gold
Mines Ltd

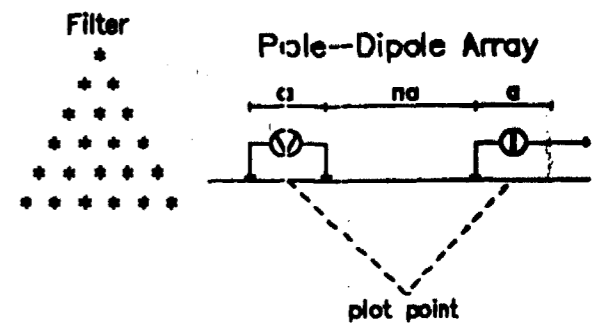


CHARGEABILITY
mV/V



APPARENT
RESISTIVITY
ohm-m



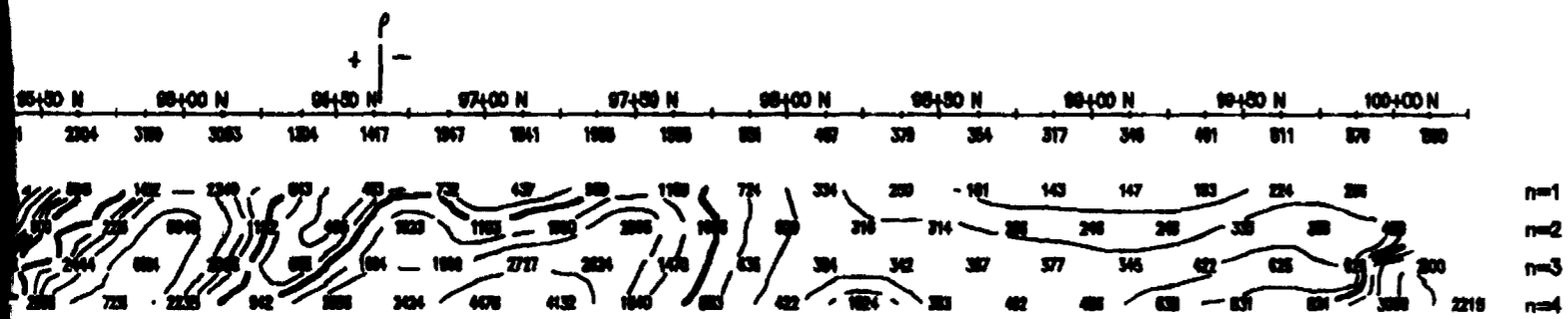
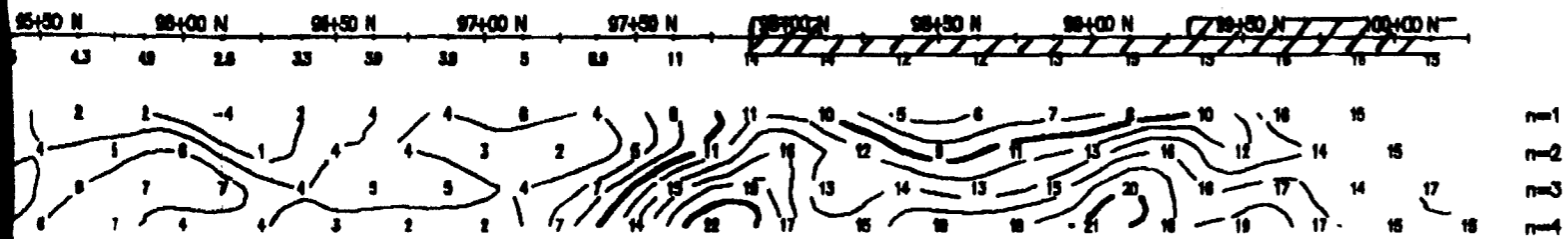
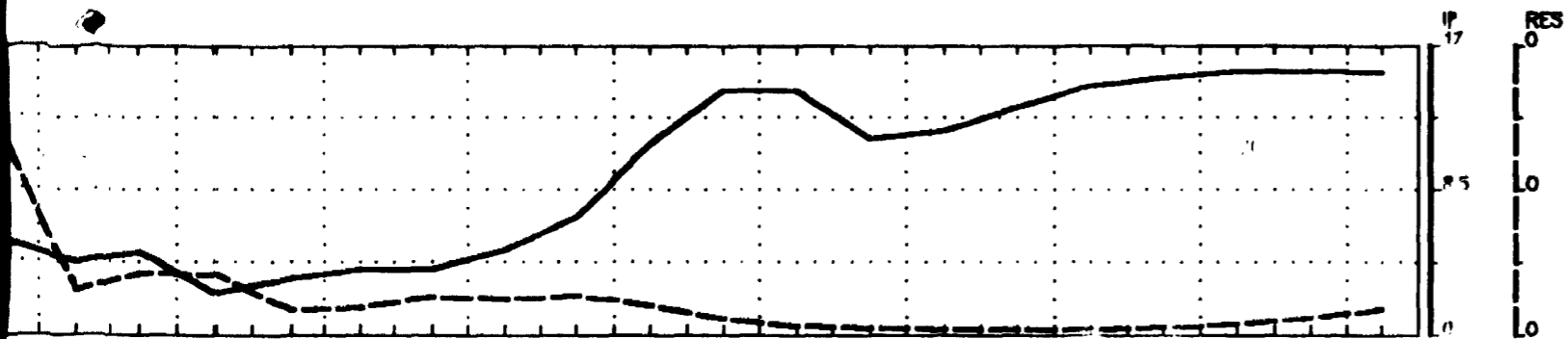
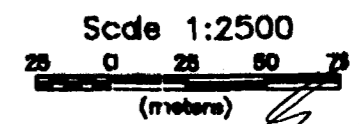


DIPOLE LENGTH : $a=25m$
 DIPOLE SPACINGS : $n = 4$
 WINDOW : Total

CHARGEABILITY
 Interval 2%, 15225
 RESISTIVITY

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

INSTRUMENTS
 RECEIVER : IPR-8
 TRANSMITTER : IPT-1



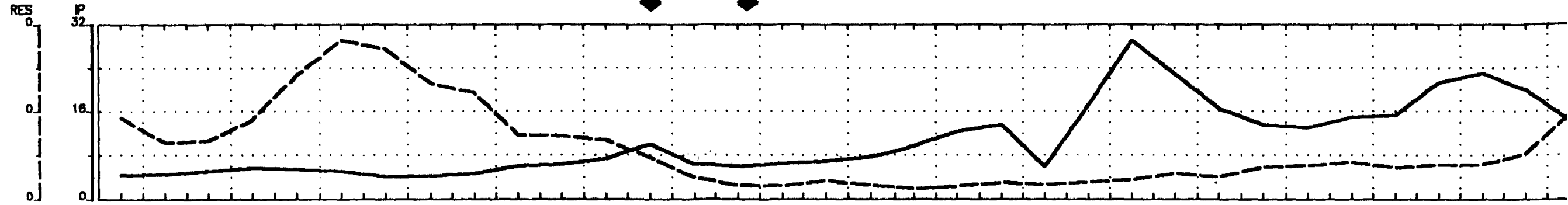
KABI LAKE

INDUCED POLARISATION

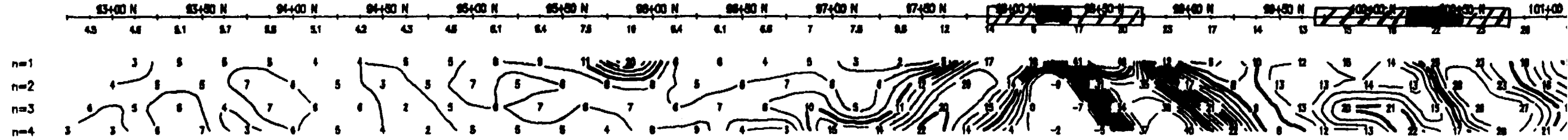
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 NTS : 42 C/16
 Survey by : Noranda Expln

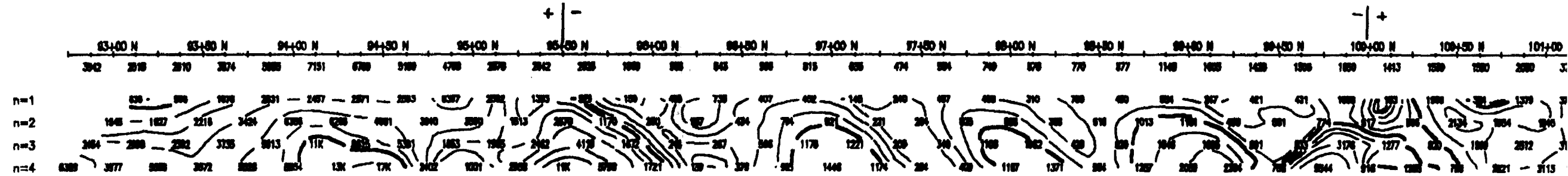
hemlo gold
 Mines Ltd

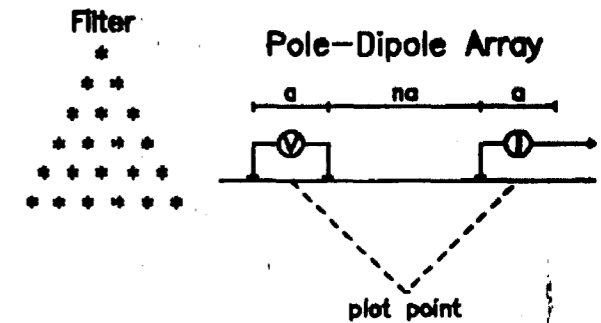


CHARGEABILITY
mV/V



APPARENT
RESISTIVITY
ohm-m





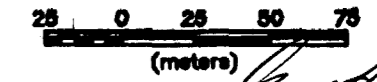
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 DIPOLE SPACINGS : $n = 4$
 WINDOW : Total

CHARGEABILITY
 Interval 2%, 10%
 RESISTIVITY

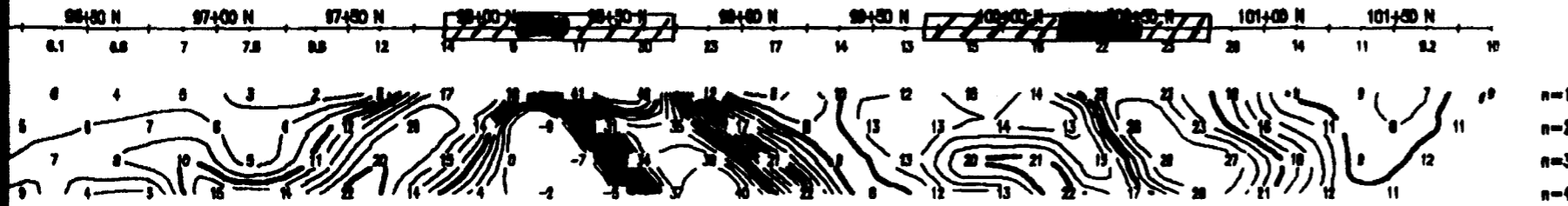
Logarithmic 1, 1.5, 2, 3, 5, 7.5, 10,...

INSTRUMENTS
 RECEIVER : IPR-8
 TRANSMITTER : IPT-1

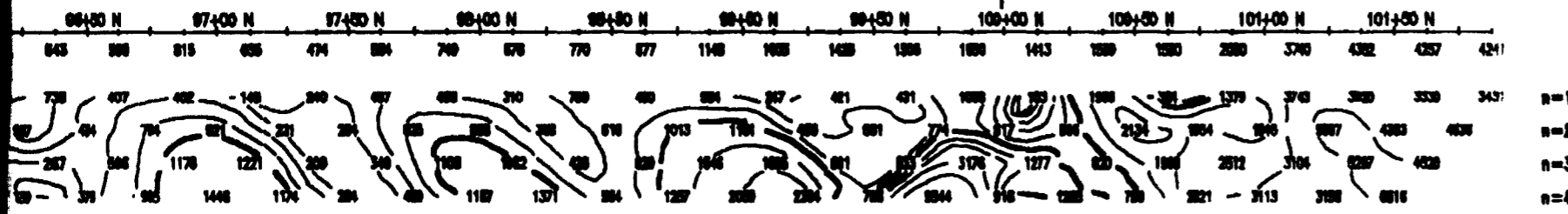
Scale 1:2500



2.15225



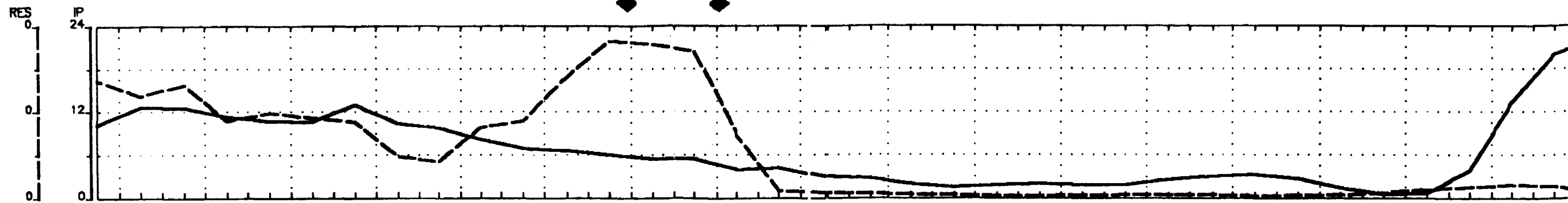
CHARGEABILITY
 mV/V



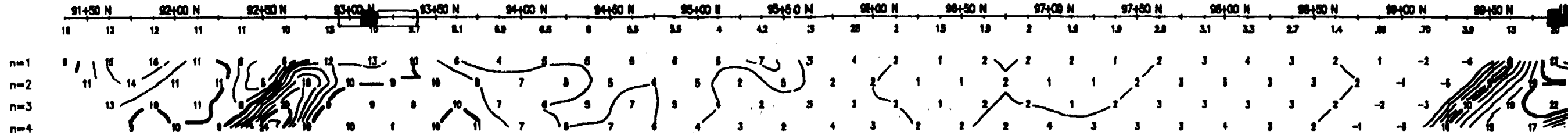
APPARENT
 RESISTIVITY
 ohm-m

KABI LAKE
INDUCED POLARISATION
LINE 10800E

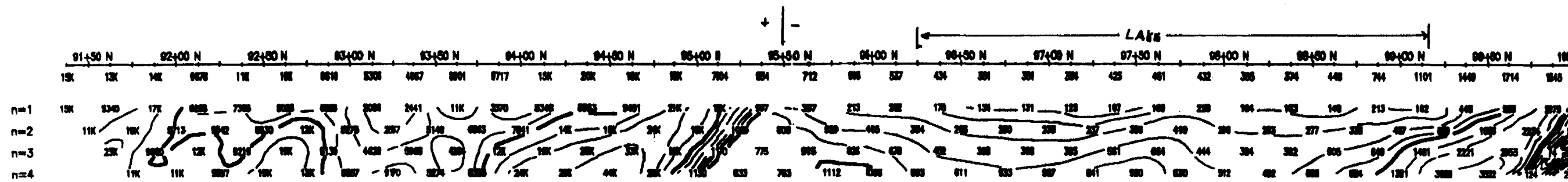
Date : JUNE 1993
 Property : KABI
 NTS : 42 C/16
 Survey by : Noranda Expln
hemlo gold
 Mines Ltd

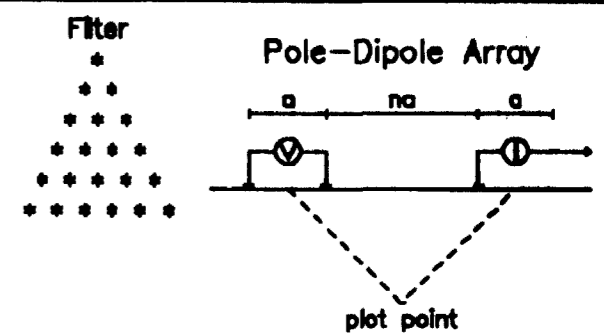
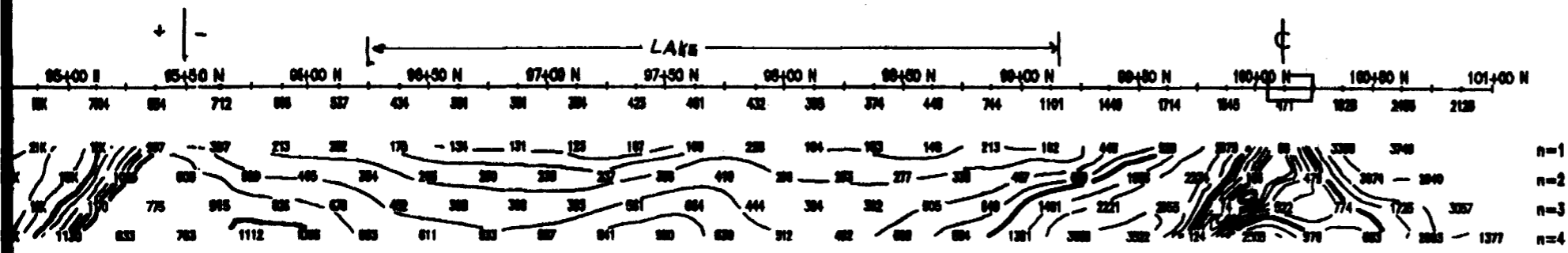
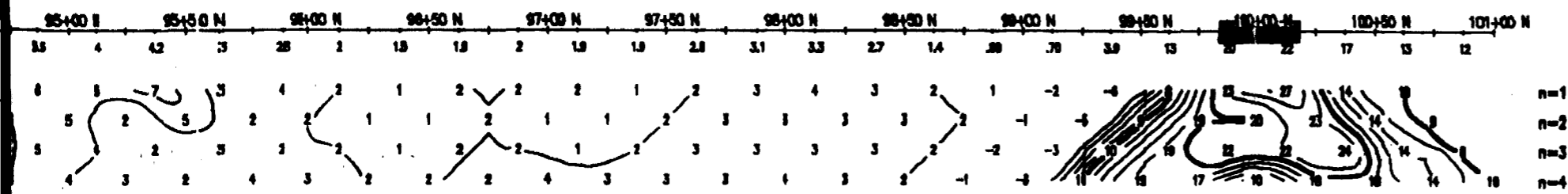
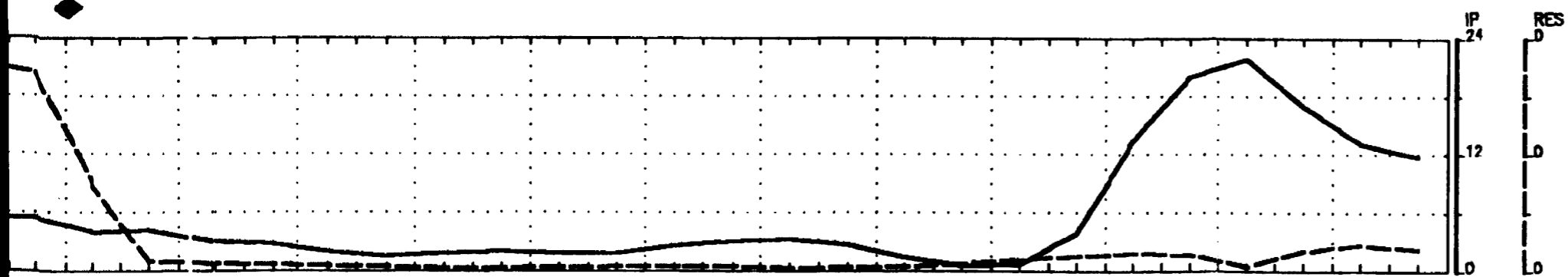


CHARGEABILITY
mV/V



APPARENT
RESISTIVITY
ohm-m



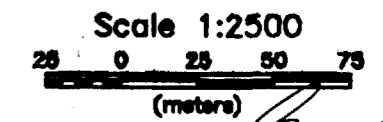


DIPOLE LENGTH : $a=25m$
DIPOLE SPACINGS : $n = 4$
WINDOW : Total

CHARGEABILITY Interval 2%, 10%
RESISTIVITY

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

INSTRUMENTS
RECEIVER : IPR-8
TRANSMITTER : IPT-1



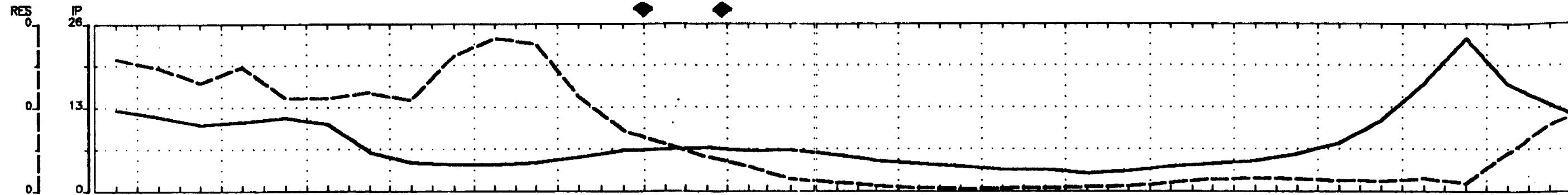
KABI LAKE

INDUCED POLARISATION

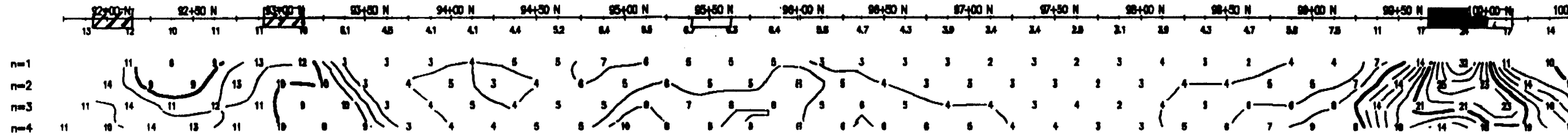
LINE 11000E

Date : JUNE 1993
Property : KABI
NTS : 42 C/16
Survey by : Noranda Expln

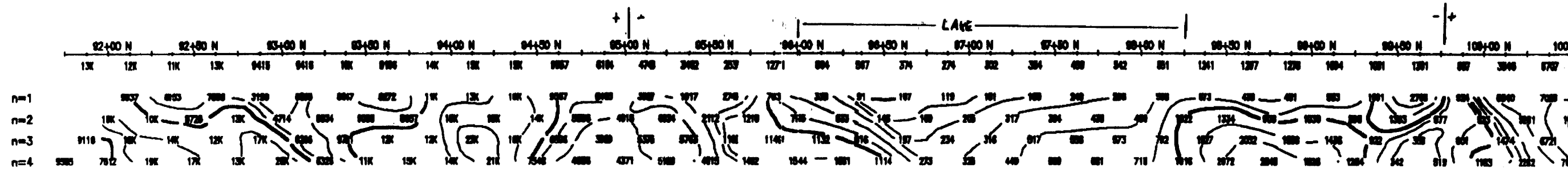
hemlo gold
Mines Ltd

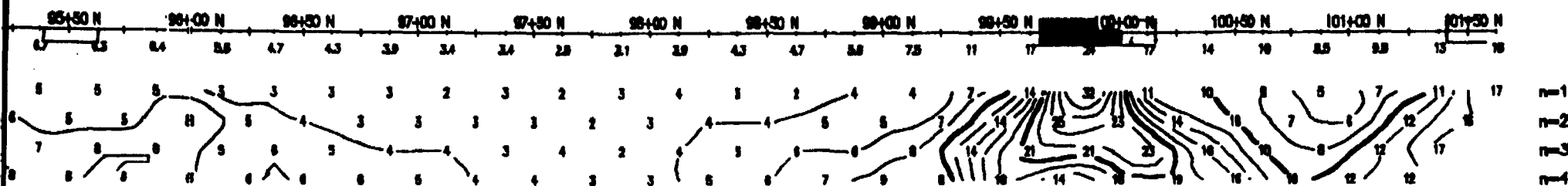
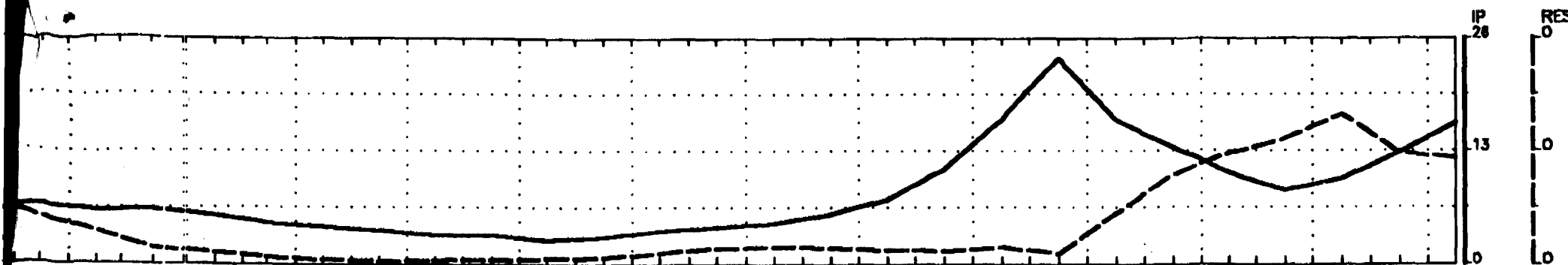


CHARGEABILITY
mV/V

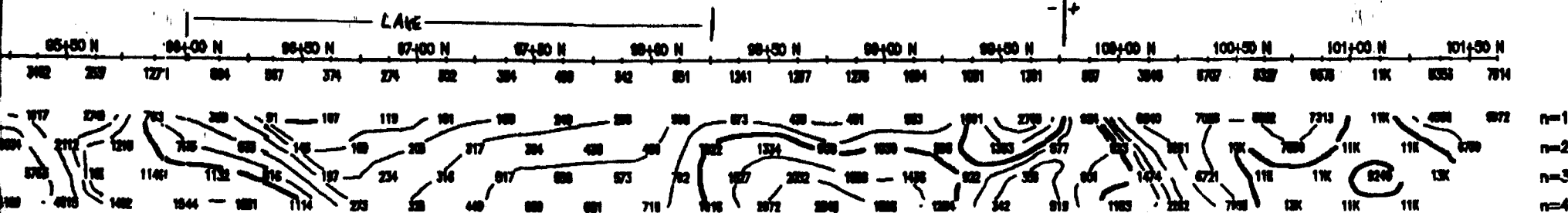


APPARENT
RESISTIVITY
ohm-m

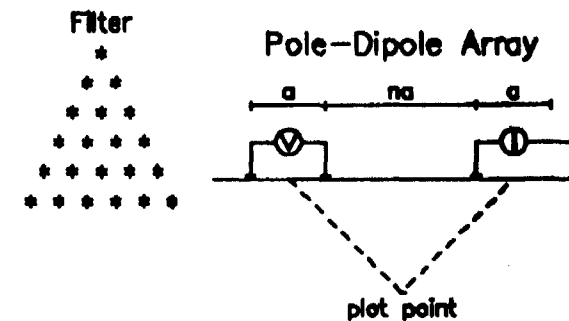




CHARGEABILITY
mV/V



APPARENT
RESISTIVITY
ohm-m



DIPOLE LENGTH : $a=25m$
DIPOLE SPACINGS : $n = 4$
WINDOW : Total

CHARGEABILITY
Interval 2%, 10% **2.15225**
RESISTIVITY
Logarithmic 1, 1.5, 2, 3, 5, 7.5, 10, ...
INSTRUMENTS
RECEIVER : IPR-8
TRANSMITTER : IPT-1

Scale 1:2500
25 0 25 50 75
(meters)

KABI LAKE

INDUCED POLARISATION

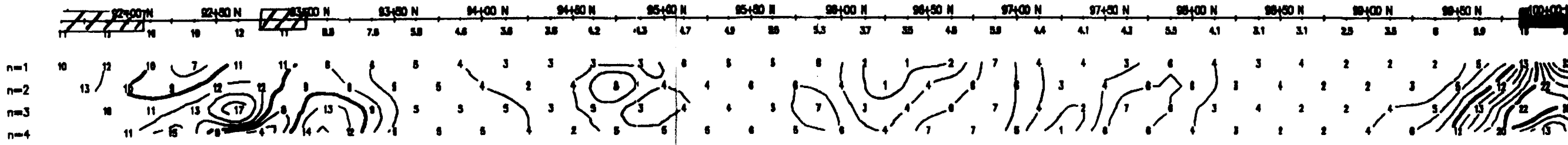
LINE 11200E

Date : JUNE 1993
Property : KABI
NTS : 42 C/16
Survey by : Noranda Expln

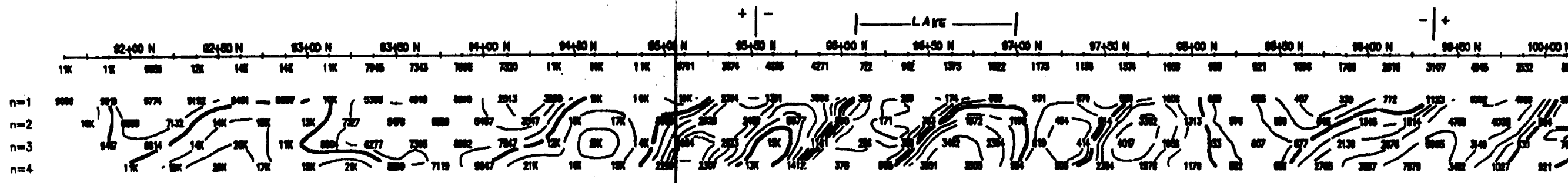
hemlo gold
Mining Ltd

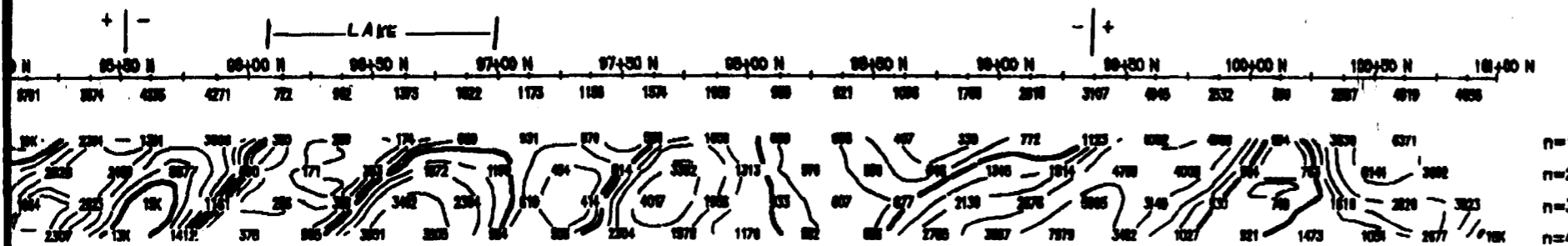
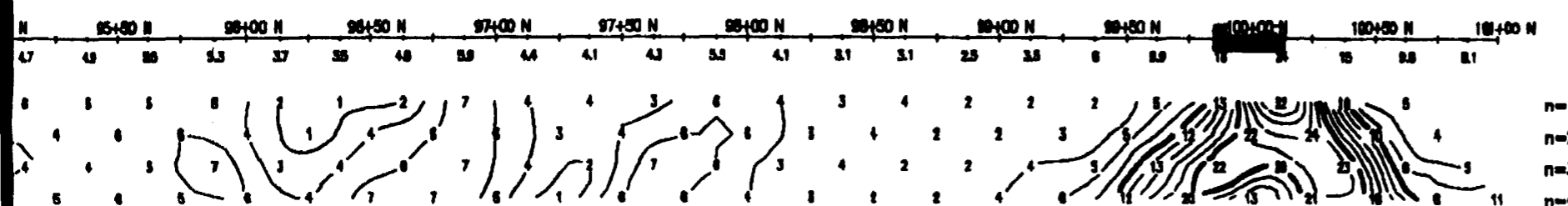
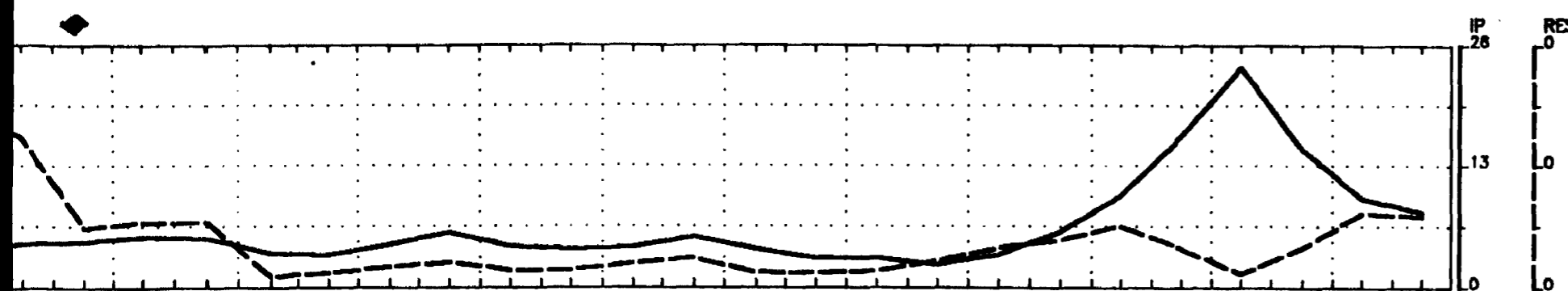


CHARGEABILITY
mV/V



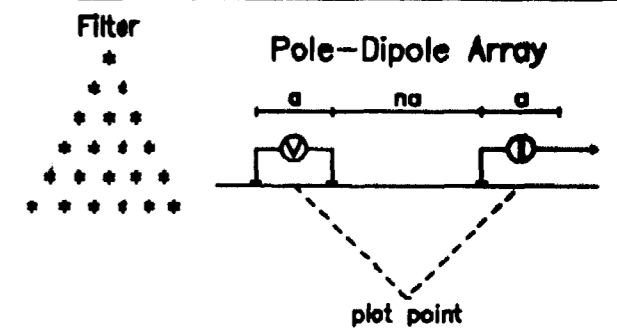
APPARENT
RESISTIVITY
ohm-m





CHARGEABILITY
mV/V

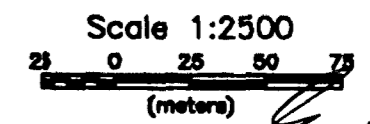
APPARENT
RESISTIVITY
ohm-m



DIPOLE LENGTH : $a=25m$
DIPOLE SPACINGS : $n = 4$
WINDOW : Total

CHARGEABILITY
Interval 2%, 10% **2.15225**
RESISTIVITY

Logarithmic 1, 1.5, 2, 3, 5, 7.5, 10,..
INSTRUMENTS
RECEIVER : IPR-8
TRANSMITTER : IPT-1

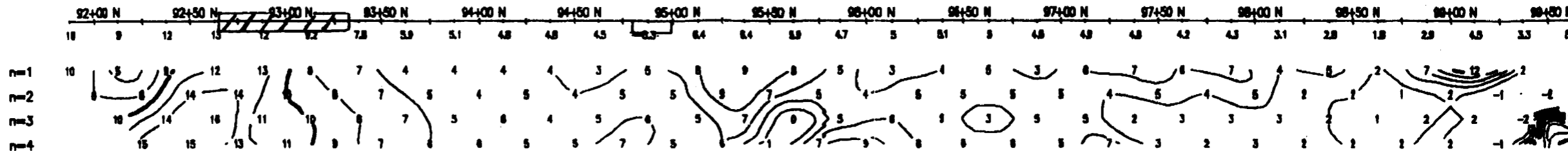


KABI LAKE
INDUCED POLARISATION
LINE 11400E

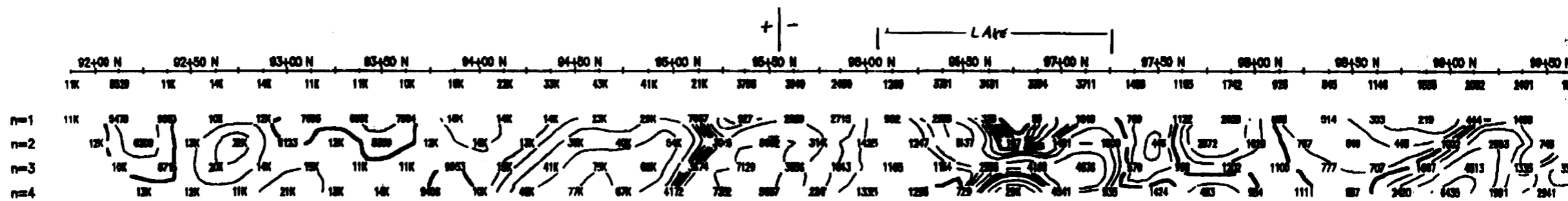
Date : JUNE 1993
Property : KABI
NTS : 42 C/16
Survey by : Noranda Expln
hemlo gold
Minres Ltd

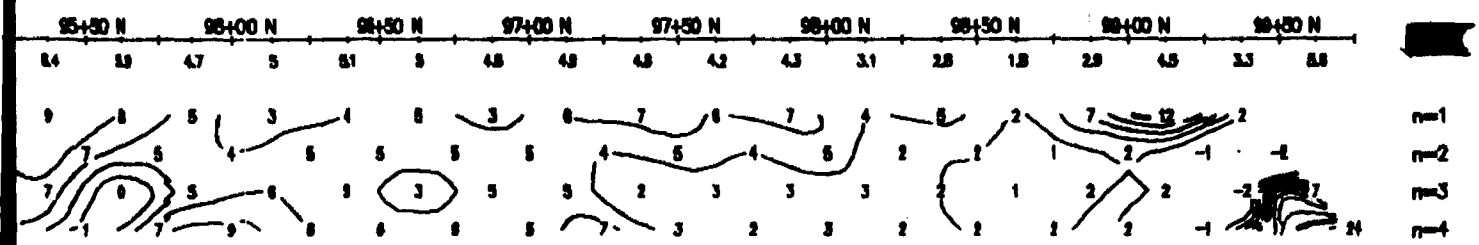
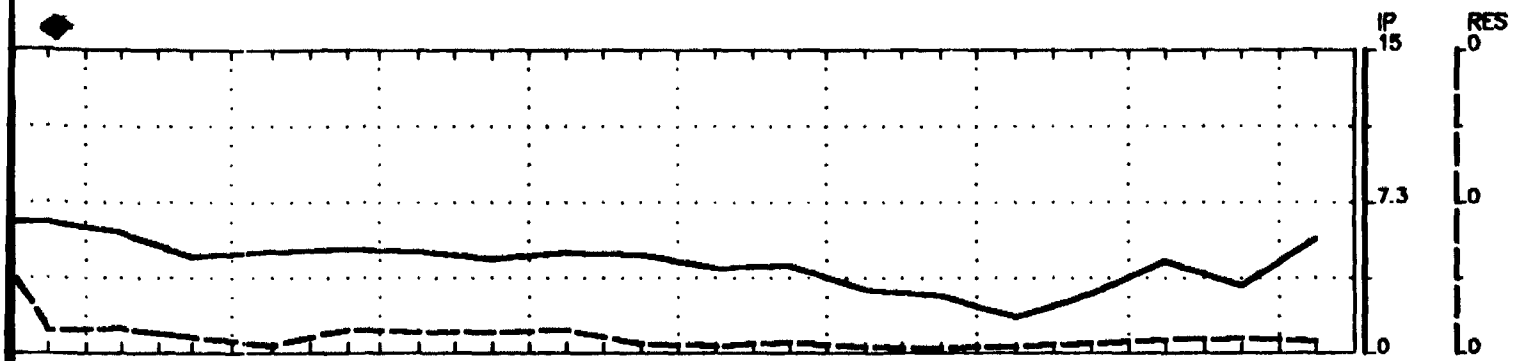


CHARGEABILITY
mV/V

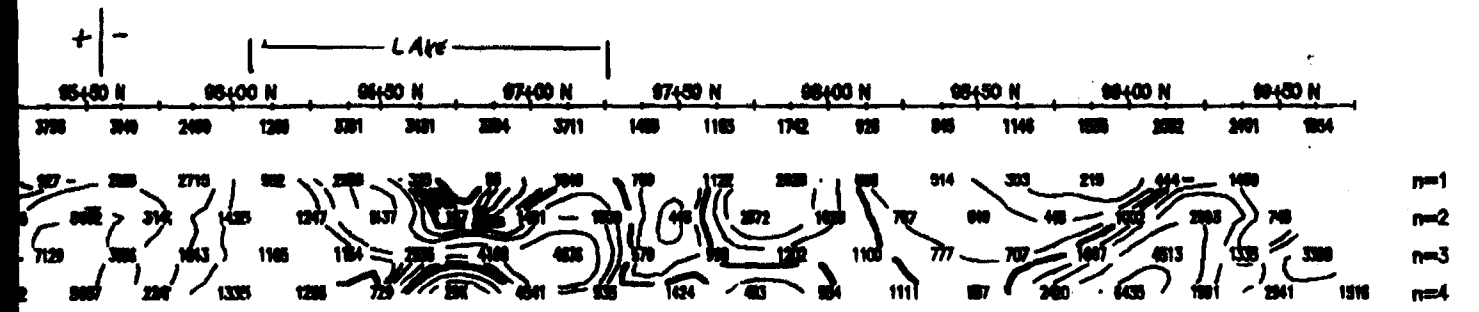


APPARENT
RESISTIVITY
ohm-m

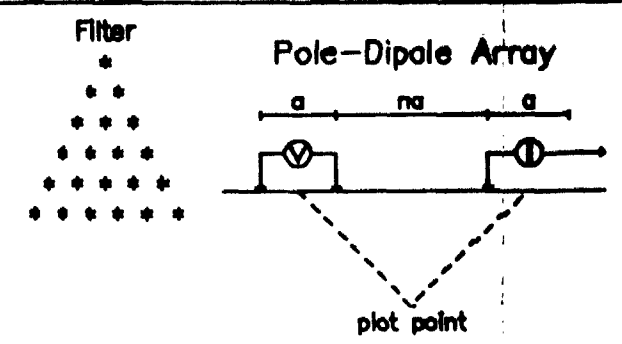




CHARGEABILITY
mV/V



APPARENT
RESISTIVITY
ohm-m

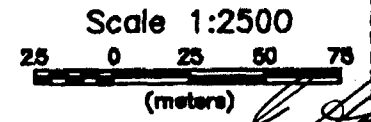


DIPOLE LENGTH : $a=25m$
DIPOLE SPACINGS : $n = 4$
WINDOW : Total

CHARGEABILITY
Interval 2%, 10% **2.15225**
RESISTIVITY

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

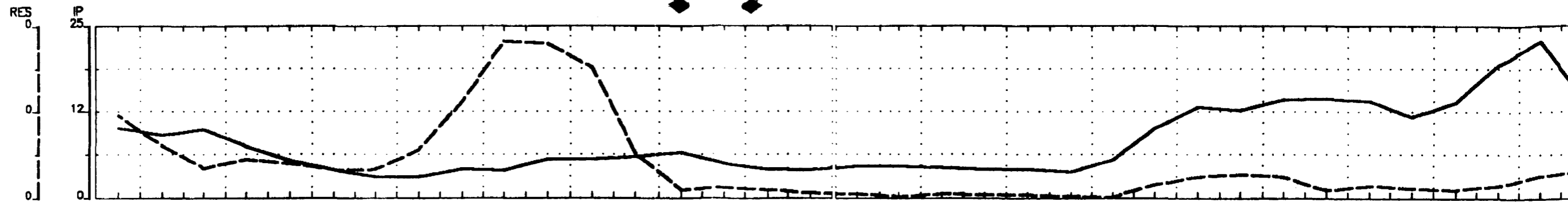
INSTRUMENTS
RECEIVER : IPR-8
TRANSMITTER : IPT-1



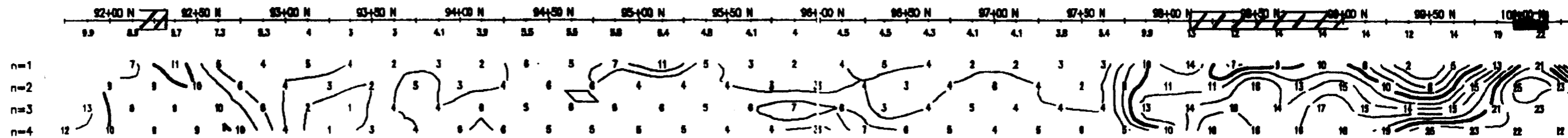
KABI LAKE
INDUCED POLARISATION
LINE 11600E

Date : JUNE 1993
Property : KABI
NTS : 42 C/16
Survey by : Noranda Expln

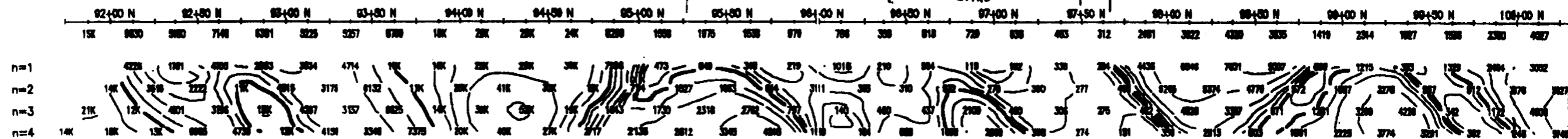
hemlo gold
Minco Ltd

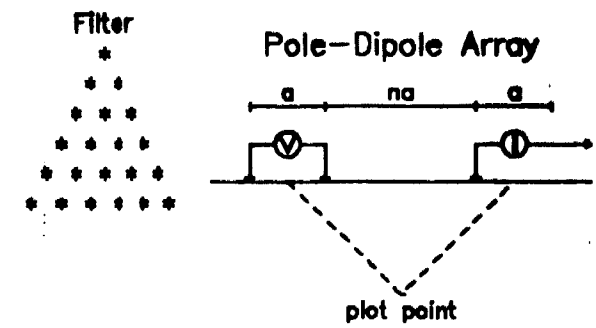


CHARGEABILITY
mV/V



APPARENT
RESISTIVITY
ohm-m



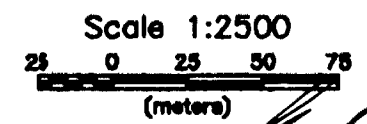


DIPOLE LENGTH : $a=25m$
 DIPOLE SPACINGS : $n = 4$
 WINDOW : Total

CHARGEABILITY
 Inteval 2%, 10% **2.15225**
 RESISTIVITY

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

INSTRUMENTS
 RECEIVER : IPR-8
 TRANSMITTER : IPT-1



KABI LAKE

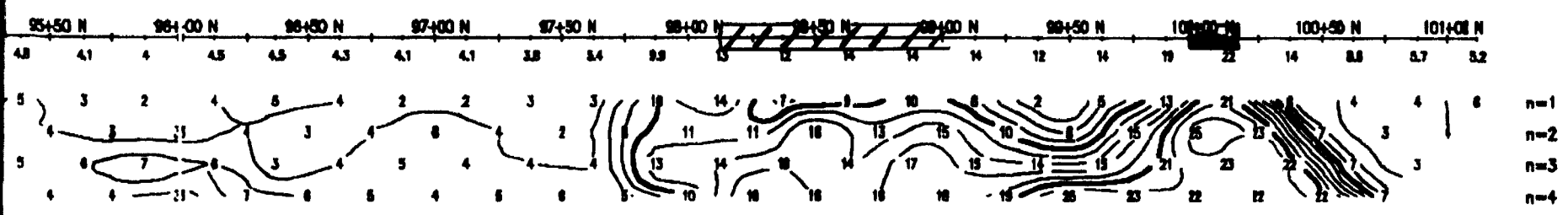
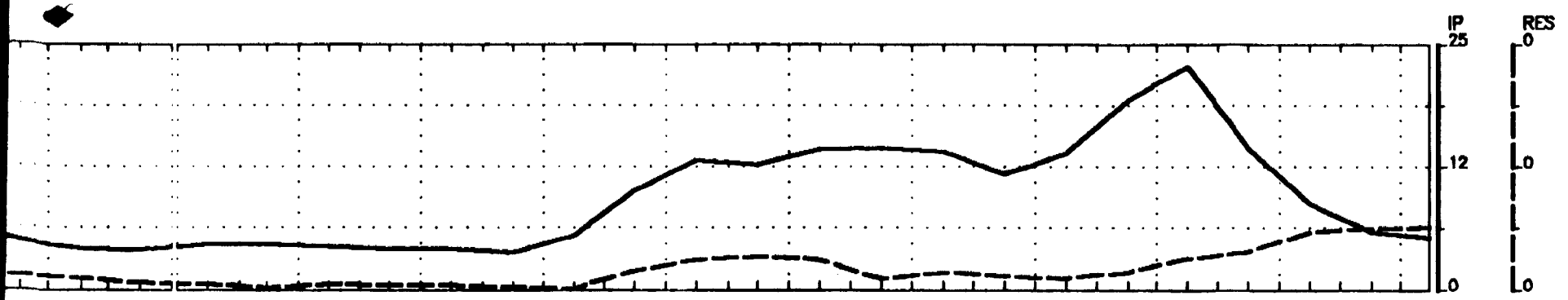
INDUCED POLARISATION

LINE 11800E

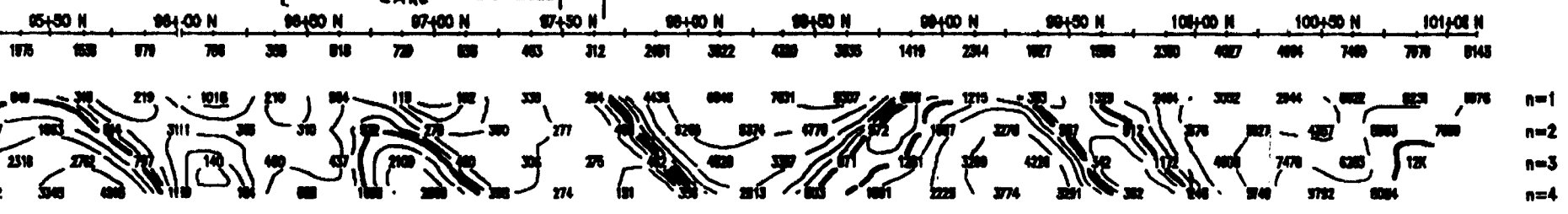
Date : JUNE 1993
 Property : KABI
 NTS : 42 C/16
 Survey by : Noranda Expln

hemlo gold

Mines Ltd



CHARGEABILITY
 mV/V



APPARENT
 RESISTIVITY
 ohm-m



42C16SW9700 2.15225 LAZAR

900

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

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

Telephone: (705) 670-5853

Fax: (705) 670-5863

February 1, 1994

Our File: 2.15225

Transaction #: W9350.00049

Recording Office
Ministry of Northern
Development and Mines
60 Church Street
Sault Ste Marie, Ontario
P6A 3H3

Dear Sir/Madam:

**Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS
P934242 ET AL IN LAZAR TOWNSHIP**

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

The approval date is January 31, 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

RL
LJ/lis

cc: Resident Geologist
Sault Ste. Marie, Ontario

✓ Assessment Files Library
Toronto, Ontario



Ministry of
Northern Development
and Mines

Ontario

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number
DOCUMENT No
W9350 00049

2.15225

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about 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.

- 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.

1382

| | | |
|---|---------------------------------|--|
| Recorded Holder(s) <i>CB</i> Donald Duncan McKinnon Hemlo Gold Mines Inc. | | Client No. <i>CB</i> 100270 143550 |
| Address c/o 960 Alloy Drive, Thunder Bay, Ontario P7B 6A1 | | Telephone No. (807) 623-4339 |
| Mining Division Sault Ste Marie | Township/Area Lizar Township | M or G Plan No. M-1299 |
| Dates Work Performed From: March 22, 1993 | | To: June 24, 1993 |

Work Performed (Check One Work Group Only)

| Work Group | Type |
|--|---|
| <input checked="" type="checkbox"/> Geotechnical Survey | Geophysical - Induced Polarization , <i>MAG</i> |
| <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 | |

24618

RECEIVED

NOV 25 1993

MINING LANDS BRANCH

RECORDED

NOV 17 1993

Receipt _____

Total Assessment Work Claimed on the Attached Statement of Costs \$ 44,370

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 |
|--------------------------|---|
| Greg Hodges (Author) | c/o 960 Alloy Drive, Thunder Bay, Ontario P7B 6A1 |
| Rod Swire | c/o 960 Alloy Drive, Thunder Bay, Ontario P7B 6A1 |
| John Hussey (Contractor) | |
| Ray Meikle (Contractor) | |

(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 <i>15 CB</i> Nov 8/93 | Recorded Holder or Agent (Signature) <i>Barratt</i> |
|--|-------------------------------|--|

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 Greg Hodges, c/o 960 Alloy Drive, Thunder Bay, Ontario P7B 6A1 | | |
| Telephone No. (807) 623-4339 | Date Nov. 8/93 | Certified By (Signature) <i>Greg Hodges</i> |

For Office Use Only

| | | | |
|---|--|---------------------------------------|--|
| Total Value Cr. Recorded \$ 2,008.00 | Date Recorded <i>Nov 17/93</i> | Mining Recorder <i>[Signature]</i> | SULT STE MARIE MINING DIVISION RECEIVED 17 NOV 1993 AM <input type="checkbox"/> PM <input checked="" type="checkbox"/> 7 10 11 12 1 2 3 4 5 6 |
| Res. 42,362.00 | Deemed Approval Date <i>Feb 15/94</i> | Date Approved <i>[Signature]</i> | |
| | Date Notice for Amendments Sent | | |

Donovan 8/15/83

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

| | |
|------|-----------|
| Date | Signature |
|------|-----------|

Note 2: If work has been performed on patented or leased land, please complete the following:
 Note 1: Examples of beneficial interest are unrecorded transfers, option payments, memorandum of agreements, etc.

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

1. Credits are to be cut back starting with the claims 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 prioritized on the attached appendix.
4. Credits are to be cut back starting with the claims that have reserve credits.

Credits you are claiming in this report may be cut back. In order to minimize the adverse affects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (x) one of the following:

| Work Item # | Claim Number of (see note 2) | Units | Total Value Work Done | | Total Assigned From | |
|-------------|------------------------------|-----------|-----------------------|-----------|---------------------|-----------|
| | | | Applied | Value | Assigned | Reserve |
| | p | 0.934,262 | 1 | 2,950.00 | | 2,950.00 |
| | p | 0.934,265 | 1 | 3,606.00 | | 3,606.00 |
| | p | 0.934,264 | 1 | 2,950.00 | | 2,950.00 |
| | p | 0.934,265 | 1 | 1,589.00 | | 1,589.00 |
| | p | 0.934,267 | 1 | 0.00 | | 670.00 |
| | p | 0.934,251 | 1 | 795.00 | | 795.00 |
| | p | 0.934,252 | 1 | 1,702.00 | | 1,702.00 |
| | p | 0.934,253 | 1 | 6,312.00 | | 6,312.00 |
| | p | 0.934,254 | 1 | 3,606.00 | | 3,606.00 |
| | p | 0.934,260 | 1 | 908.00 | | 908.00 |
| | p | 0.934,268 | 1 | 0.00 | | 670.00 |
| | p | 0.934,269 | 1 | 0.00 | | 670.00 |
| | p | 0.934,270 | 1 | 0.00 | | 670.00 |
| | SSM | 1,189,565 | 9 | 1,589.00 | | 1,589.00 |
| | SSM | 1,189,567 | 6 | 13,050.00 | 2,008.00 | 11,042.00 |
| | SSM | 1,190,974 | 4 | 7,717.00 | | 7,717.00 |
| | | | | 46,370.00 | 2,008.00 | 42,362.00 |



Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No. / DOCUMENT NO. W9350 00049

2.15225

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.

1382

1. Direct Costs/Coûts directs

| Type | Description | Amount Montant | Totals Total global |
|--|--|----------------|---------------------|
| Wages Salaires | Labour Main-d'oeuvre | 20,464 | |
| | Field Supervision Supervision sur le terrain | 1,922 | 22,386 |
| Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil | Type Linecutting | 3,255 | |
| | Geophysical | 7,000 | |
| | | | 10,255 |
| Supplies Used Fournitures utilisées | Type Batteries, Hardware, etc. | 2,108 | |
| | | | 2,108 |
| Equipment Rental Location de matériel | Type IP Equipment | 2,414 | |
| | | | 2,414 |
| Total Direct Costs Total des coûts directs | | | 37,163 |

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 Helicopter | 4,268 | |
| | Fixed Wing | 1,540 | |
| | Truck | 457 | |
| | | | 6,265 |
| Food and Lodging Nourriture et hébergement | | 942 | 942 |
| Mobilization and Demobilization Mobilisation et démoblisation | | | |
| Sub Total of Indirect Costs Total partiel des coûts indirects | | | 7,207 |
| Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs) | | | 7,433 |
| 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) | | | 44,370 |

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 | Evaluation 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 Lands Administrator 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.

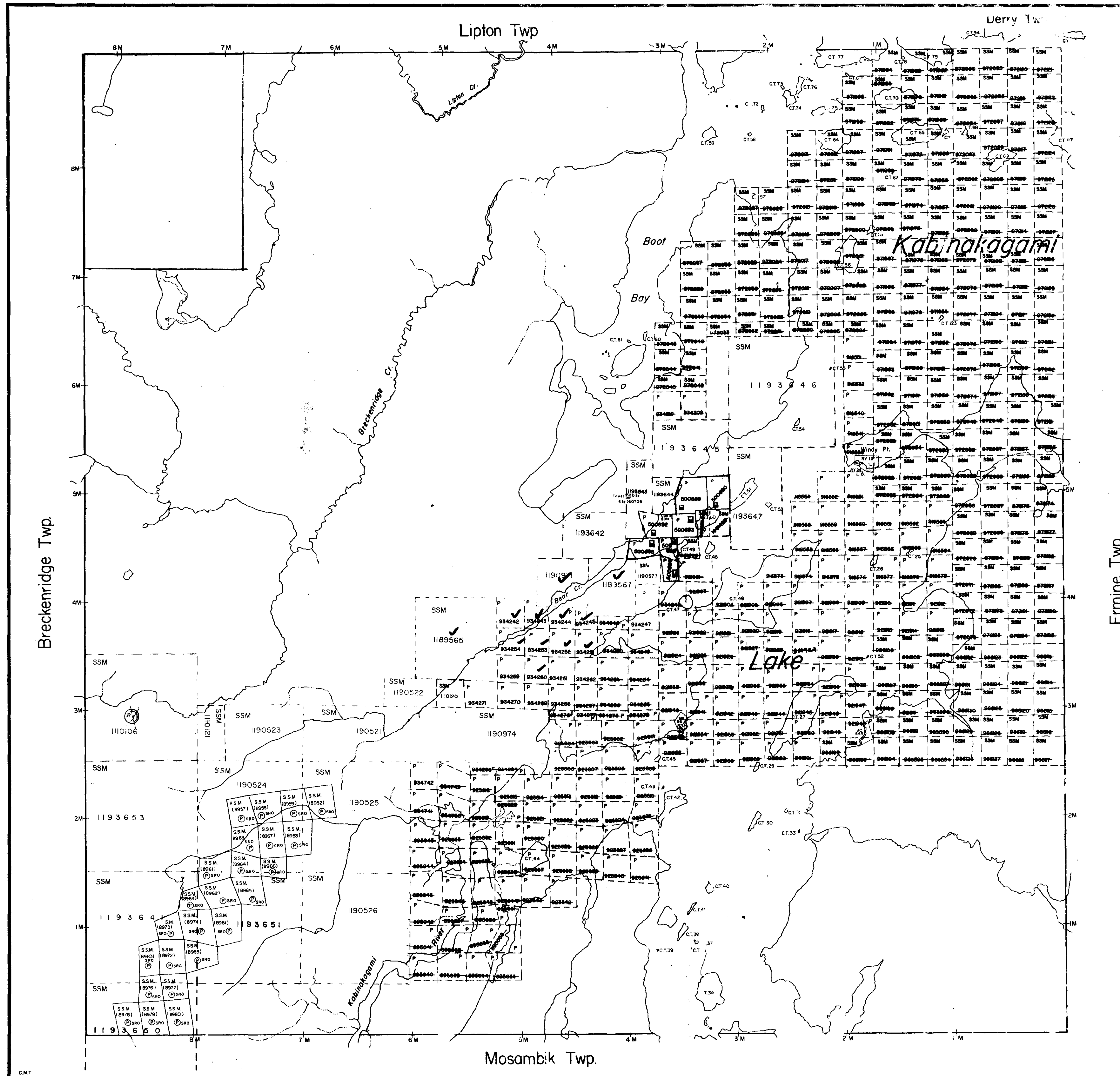
Et qu'à titre de _____ je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature [Signature] Date Nov. 8/93

C-5358

LIZAR TWP



LEGEND

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

NOTES

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

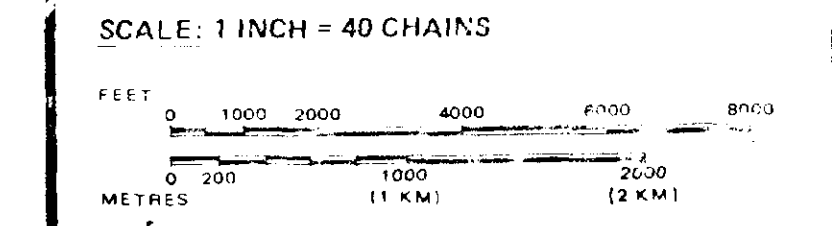
AREAS WITHDRAWN FROM DISPOSITION

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

| Description | Order No. | Date | Disposition | File |
|-------------|-------------|----------|---------------|--------|
| | 0-SSM-19/92 | 22/06/92 | S.R.M. RIGHTS | 195104 |

AREAS OUTLINED IN RED = FORESTRY ACTIVITIES 1992-93

1992-93 Magnetic Bearing Adjustment - 7' W Annual Change - 24' as of 1992

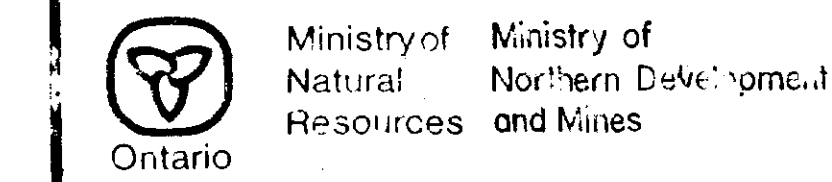


TOWNSHIP
LIZAR

M.R. ADMINISTRATIVE DISTRICT
WAWA

MINING DIVISION
SAULT STE. MARIE

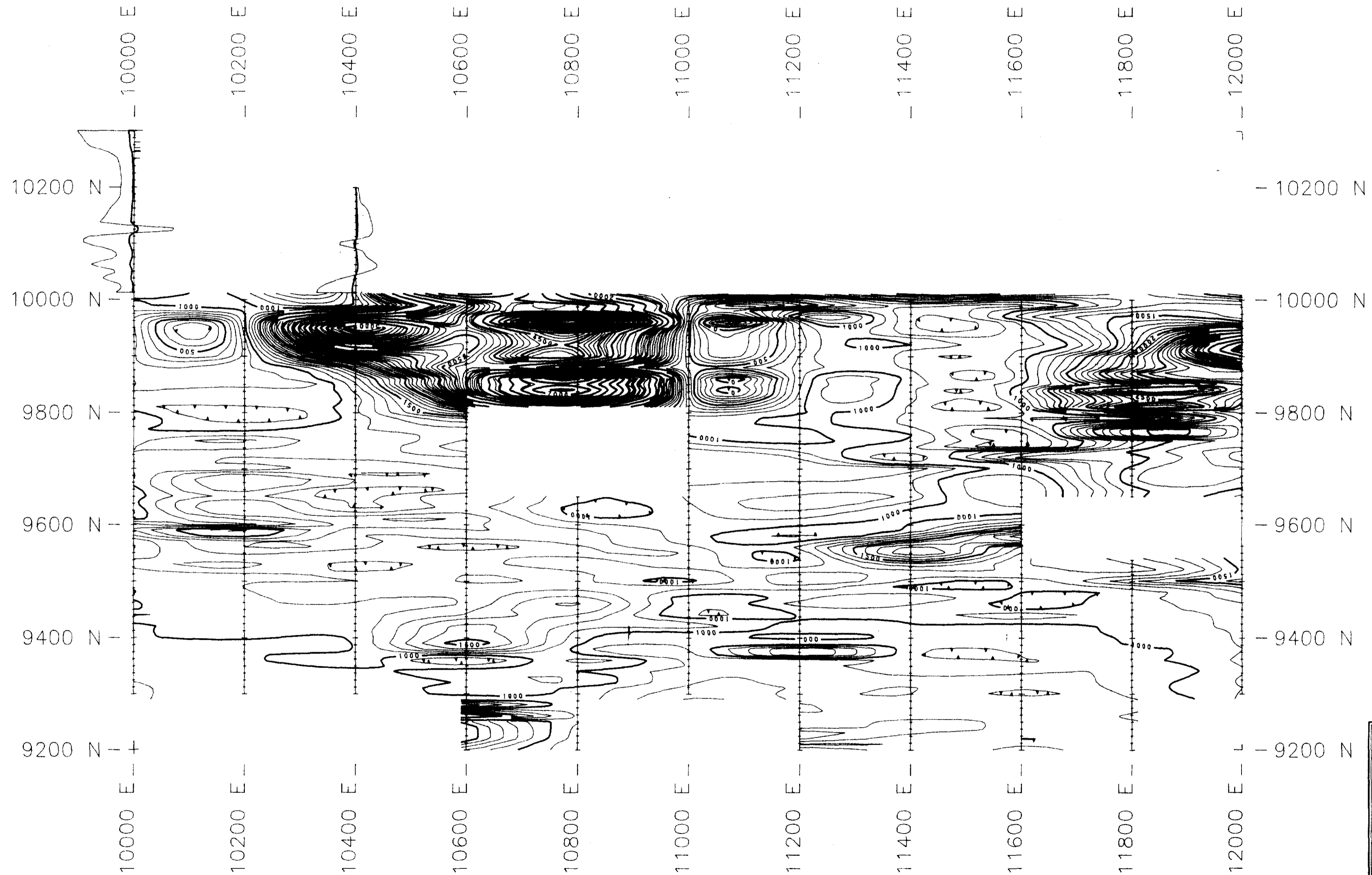
LAND TITLES / REGISTRY DIVISION
ALGOMA



Date: JULY 1986 Number: **G-2328**

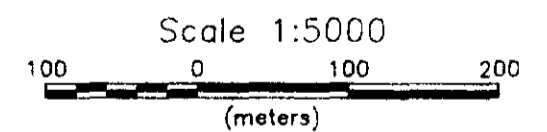
THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.





2.15225

Instrument : GSM-19
 Contour Intervals : 100/500 nT
 Datum : 58000



KABI LAKE

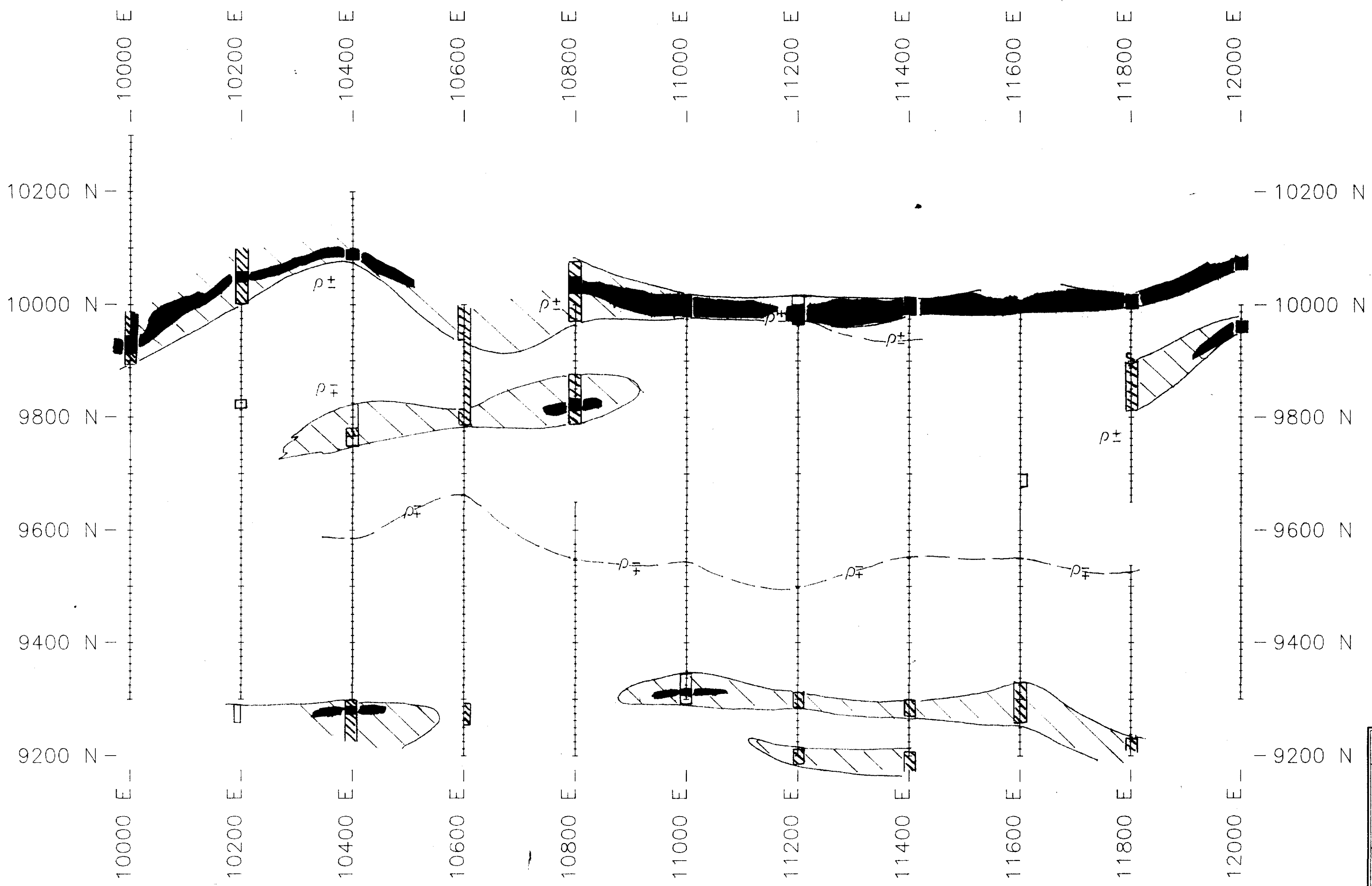
**MAGNETIC SURVEY
 TOTAL FIELD**

PROJECT : KABI LAKE NUMBER : 1382
 BASELINE AZIMUTH : 55 deg

DATE : June 1993 NTS : 42 C/16
 SURVEY BY : Noranda Expln
 FILE : m82kabi

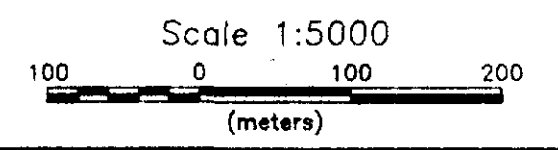
hemlo gold
 Mines Ltd





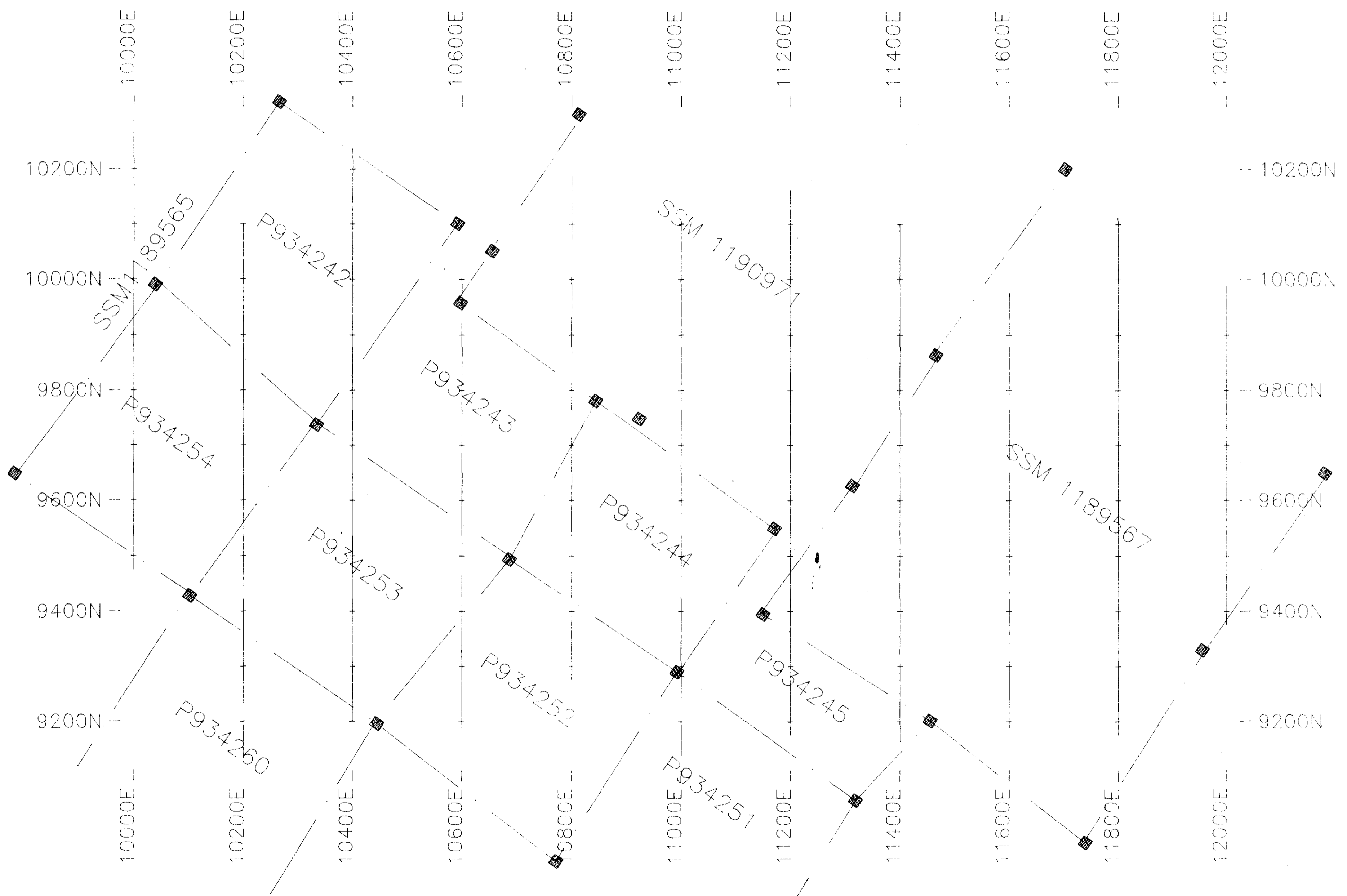
2.15225

[Handwritten Signature]



| | |
|---|---------------|
| KABI LAKE | |
| INDUCED POLARISATION ANOMALY MAP | |
| PROJECT : KABI LAKE | NUMBER : 1382 |
| BASELINE AZIMUTH : 55 deg | |
| DATE : June 1993 | NTS : 42 C/16 |
| SURVEY BY : Noranda Expln | |
| FILE : | |
| hemlo gold <small>Mines Ltd</small> | |





2.15225

[Signature]

Dipoles 25m n=1 to 4
Pole Dipole Array
Transmitter: Phoenix IPT-1 Scintrex TSQ-3
Receiver: Scintrex IPR-8 BRGM IP-2

◆ CLAIM POST

100 0 100 200
(meters)

KABINIKAGAMI LAKE

INDUCED POLARISATION
ANOMALIES

PROJECT : KABI LAKE NUMBER : 1382
BASELINE AZIMUTH : 55

DATE : Nov. 93 NTS : 42 C/16
SURVEY BY : Noranda Expln
FILE : i82kabi

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