INTERPRETATION REPORT
ON THE
GEOPHYSICAL SURVEYS ON THE
ST LAURENT TOWNSHIP (CHIMP GRID)
PROPERTY
FOR TARZAN GOLD INCORPORATED

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BACK POCKET

MAGNETOMETER SURVEY AND GEOPHYSICAL COMPILATION

MAX MIN SURVEY 444 Hz
1777 Hz
3555 Hz

ABSTRACT

Magnetic, electromagnetic and induced polarization surveys were conducted on the St Laurent Township (Chimpanzee Grid) of Glen Auden Resources for Tarzan Gold Incorporated. Two moderate changeability zones were delineated, both apparently coincident with previously detected airborne EM conductors.

Diamond drilling of these two zones is recommended, on a low priority basis. Further work would be decided on the results of these holes.

INTRODUCTION

During the first part of 1988 a program of linecutting and geophysical surveying was conducted on the St. Laurent Township property of Glen Auden Resources Limited for Tarzan Gold Incorporated. The surveys were magnetic, electromagnetic and induced polarization.

LOCATION AND ACCESS

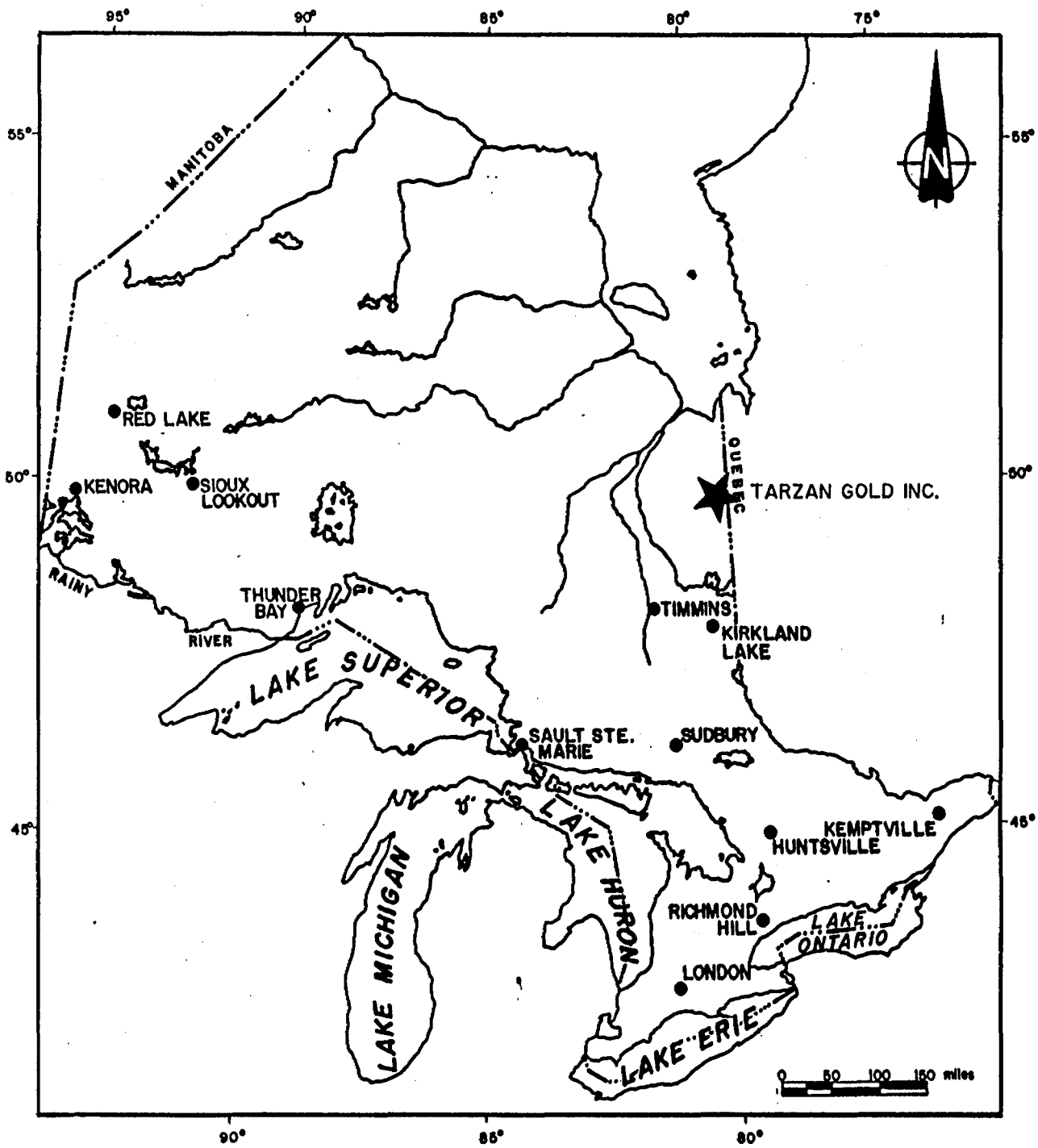
The property is located in north east St. Laurent Township, District of Cochrane, Ontario (figures 1 and 2) approximately 115 kilometers by air east-northeast of Cochrane, Ontario.

The nearest approach by road is the Tomlinson Township gravel road, approximately 25 to 30 kilometers to the west. Access to the grid is best by helicopter.

CLAIMS

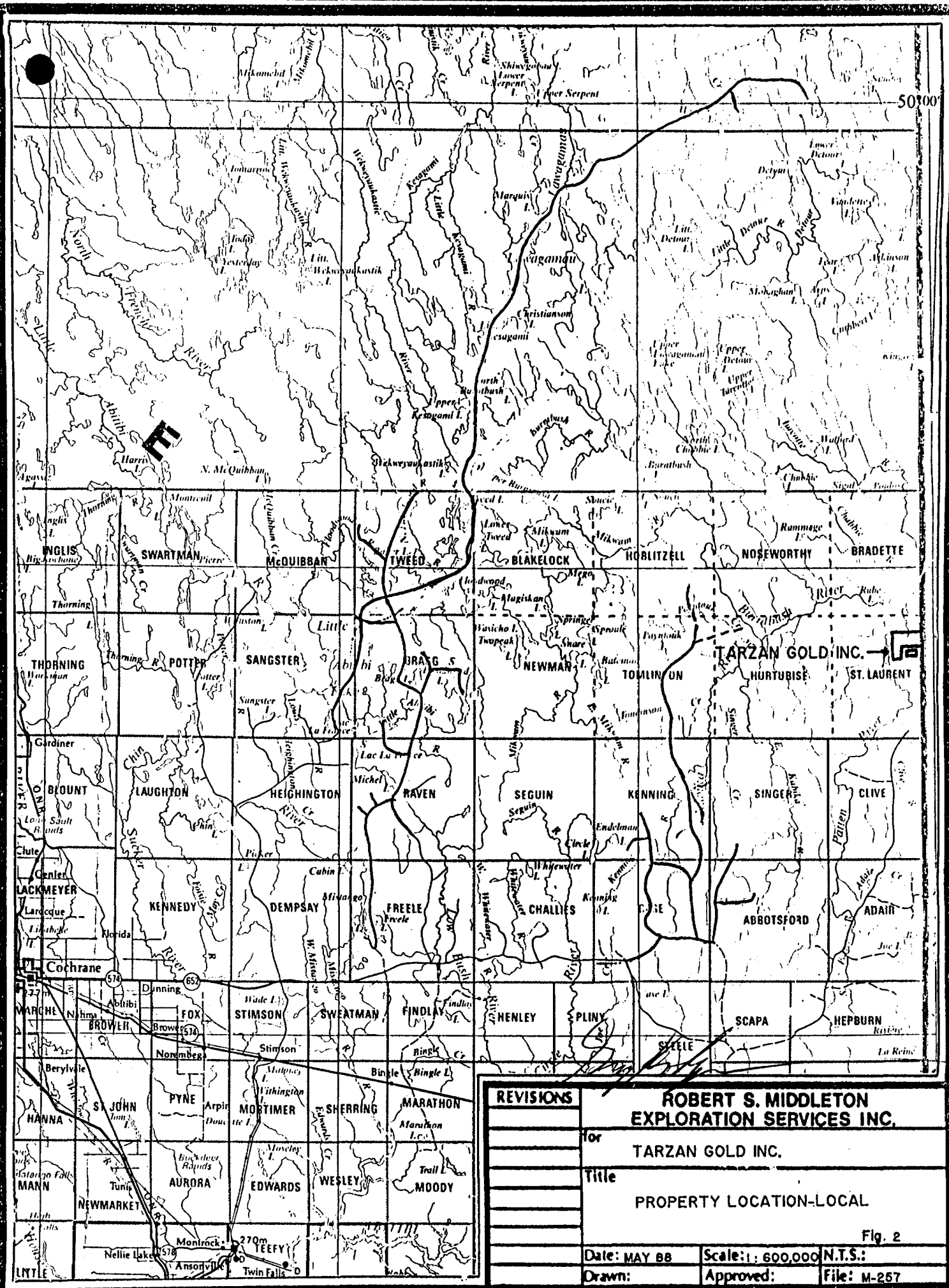
The grid (called the Chimpanzee, or Chimp Grid) covers part of two contiguous groups of claims one of 100 cliams and one of 60 claims. The grid actually covered were:

CLAIM	NUMBER	RECORDED	HOLDER
L 876982-983	2	February 7, 1986	Noranda Exploration
L 877286-287	2	January 10, 1986	Glen Auden Resources
L 877293-294	2	January 30, 1986	Glen Auden Resources
L 879345-347	3	January 23, 1986	Glen Auden Resources
L 879350	1	January 23, 1986	Glen Auden Resources
L 879362-364	3	January 23, 1986	Glen Auden Resources
L 879374-375	2	January 23, 1986	Glen Auden Resources
L 879378-379	2	January 23, 1986	Glen Auden Resources



PROVINCE OF ONTARIO

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for TARZAN GOLD INC.		
	Title PROPERTY LOCATION - REGIONAL		
			Fig. 1
	Date: MAY 88	Scale: 1"=160mi.	N.T.S.:
	Drawn:	Approved:	File: M-257



REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.
	for TARZAN GOLD INC.
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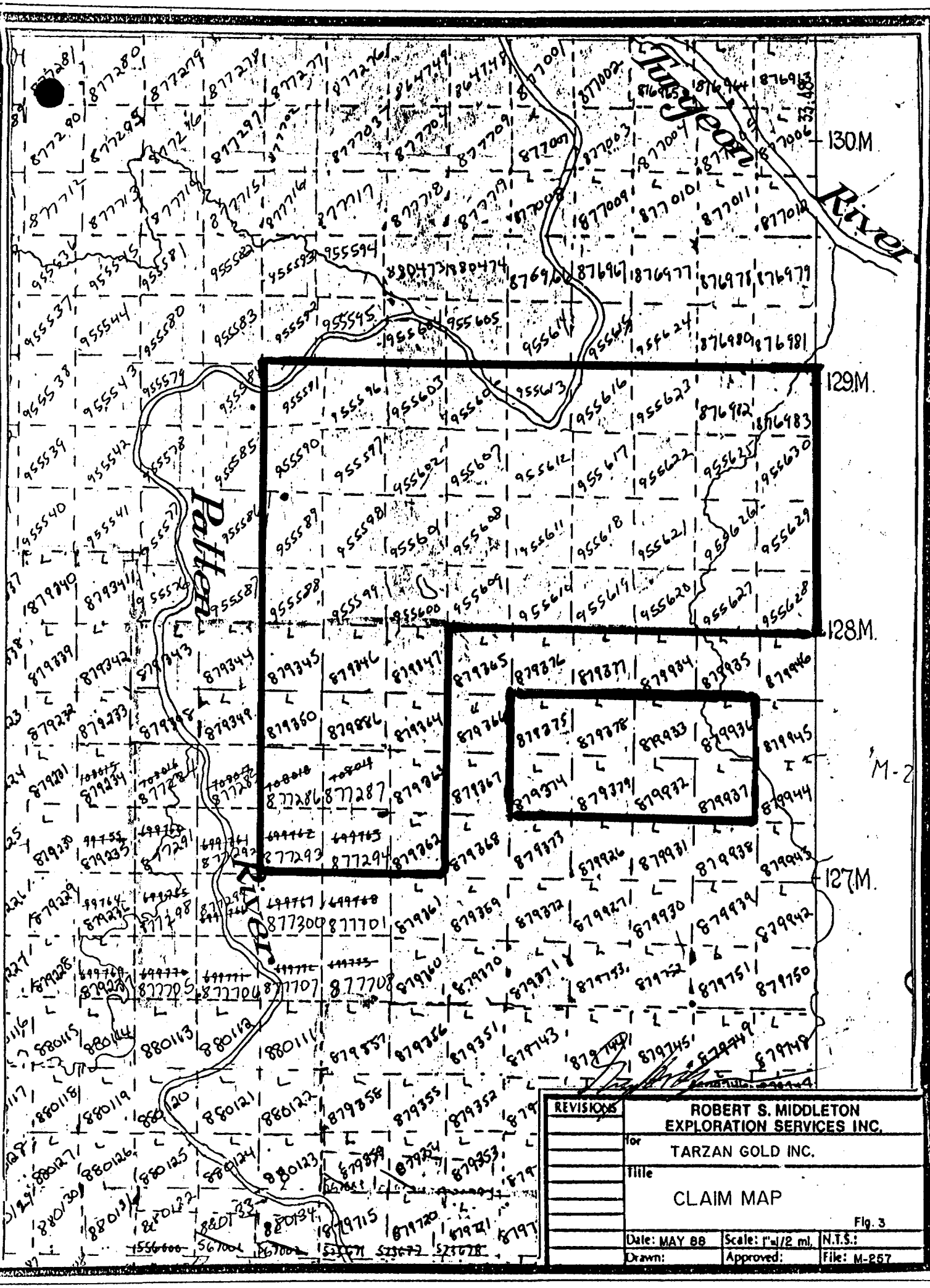
	Fig. 2
	Date: MAY 88 | Scale: 1 : 600,000 | N.T.S.:
	Drawn: | Approved: | File: M-257



REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for TARZAN GOLD INC.		
	Title CLAIM MAP		Fig. 3
	Date: MAY 88	Scale: 1"=1/2 mi.	N.T.S.:
	Drawn:	Approved:	File: M-257

L 879886	1	January 23, 1986	Glen Auden Resources
L 879932-933	2	January 23, 1986	Glen Auden Resources
L 879936-937	2	January 23, 1986	Glen Auden Resources
L 955588-591	4	February 17, 1987	Glen Auden Resources
L 955596-603	8	February 17, 1987	Glen Auden Resources
L 955606-613	8	February 17, 1987	Glen Auden Resources
L 955616-623	8	February 17, 1987	Glen Auden Resources
L 955625-630	6	February 17, 1987	Glen Auden Resources

All of the claims are held by Glen Auden Resources Limited except for L 876982 and L 876983 which are held by Noranda Exploration.

GENERAL GEOLOGY

The Goldrock property is located in the Abitibi Greenstone Belt of the Superior Province of the Canadian Shield. The rocks consist mainly of Archean age metamorphosed volcanic and intercalated sedimentary units, intruded by mafic to intermediate or felsic bodies.

The regional metamorphism is dominantly greenschist facies with minor contact zones of amphibolite grade. The metavolcanic rocks are generally mafic to intermediate flows, pillowed flows, and pyroclastic breccias. There are lesser amounts of intermediate to felsic metavolcanics composed of tuffs and breccias with minor flows.

The metasedimentary rocks comprise interbedded greywacke, tuffs, siltstone, shale and conglomerate. Sulphide and oxide facies iron formations form as a result of exhalative activity along metavolcanic flow interfaces.

The metavolcanics and metasediments have been intruded by Precambrian batholiths, stocks and dikes of granite, diorite and gabbro, and all of these rocks have been intruded by late Precambrian diabase dikes.

The geology is generally steeply dipping, and strikes generally east-west. It is an area of low relief and sparse outcrop, covered by Pleistocene tills and muskeg.

The "iron formations" are closely related to much of the gold mineralization as shown by the recent gold discoveries (Inco-Golden Pond and Golden Knight in Casa Berardi, Golden Hope in Estrades, and Newmont in Noseworthy Township). The gold occurs within several rock types, including oxide and sulphide iron formations, metasediments and metavolcanics. Carbonate and silica alteration with pyritization is directly associated with the gold mineralization.

SURVEY PROCEDURES

MAGNETICS

Theory

The magnetic method is based on measuring alteration in the shape and magnitude of the earth's naturally ocurring magnetic field caused by changes in the magnetization of the rocks in the earth.

These changes in magnetization are due mainly to the presence of the magnetic minerals, of which the most common is

magnetite, and to a lesser extent ilmenite, pyrrhotite, and some less common minerals.

Magnetic anomalies in the earth's field are caused by changes in two types of magnetization: induced and remanent (permanent). Induced magnetization is caused by the magnetic field being altered and enhanced by increases in the magnetic susceptibility of the rocks, which is a function of the concentration of the magnetic minerals.

Remanent magnetism is independant of the earth's magnetic field, and is the permanent magnetization of the magnetic particles (magnetite, etc.) in the rock. This is created when these particles orient themselves parallel to the ambient field when cooling. This magnetization may not be in the same direction as the present earth's field, due to changes in the orientation of the rock or the field.

The most common method of measuring the total magnetic field in ground exploration is with a proton precession magnetometer. This device measures the effect of the magnetic field on the magnetic dipole of hydrogen protons. This dipole is caused by the "spin" of the proton, and in a magnetometer these dipoles in a sample of hydrogen-rich fluid are oriented parallel to a magnetic field applied by an electric coil surrounding the sample. After this magnetic field is removed, the dipoles begin to precess (wobble) around their orientation under the influence

of the ambient earth's magnetic field. The frequency of this precession is proportional to the earth's magnetic field intensity.

Field Method

The magnetics 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 ± 1 n Tesla. The magnetometer is carried down the survey line by a single operator, with the sensor mounted on a short pole to remove it from the surface geologic noise. Readings are normally taken at 25 m intervals, and at 12.5 m intervals where the operator observes a high gradient (anomaly).

The readings are corrected for changes in the earth's total field (diurnal drift) by measuring and recording the drift with a stationary (base station) magnetometer. This recorded drift is then applied to the data as a correction.

MAX-MIN II

Theory

The Max-Min II is a frequency domain, horizontal loop electromagnetic (HLEM) system, based on measuring the response of conductors to a transmitted, time varying electromagnetic field.

The transmitted, or primary EM field is a sinusoidally varying field at any of five different frequencies. This field induces an electromotive force, (emf), or v ltage, in any

conductor through which the field passes. This is defined by:

$$\oint E.dl = \frac{-\partial \phi}{\partial t} \quad \text{(the Faraday Induction Principle)}$$

where E is the electric field strength in volts/metre (and so $\oint E.dl$ is the emf around a closed loop) and ϕ is the magnetic flux through the conductor loop. This emf causes a "secondary" current to flow in the conductor in turn generating a secondary electromagnetic field.

This changing secondary field induces an emf in the receiver coil (by the Faraday law) at the same frequency, but which differs from the primary field in magnitude and phase. The difference in phase (the phase angle) is a function of the conductance of the conductor(s), both the target and the overburden and host rock. The magnitude of the secondary is also dependant on the conductance, and also on the dimensions, depth, and geometry of the target, as well as on the interference from overburden and the host rock.

These two parameters (phase angle and magnitude) are measured by measuring the strength of the secondary field in two components: the real field or that part "in-phase" with the primary field; and the imaginary field, or that part in "quadrature" or 90° out of phase from the primary field.

The magnitude and phase angle of the response is also a function of the frequency of the primary field. A higher frequency field generates a stronger response to weaker

conductors, but a lower frequency tends to pass through weak conductors and penetrate to a greater depth. The lower frequency also tends to energise the full thickness of a conductor, and gives a better measure of its true conductivity-thickness product (conductance).

For these reasons two or more frequencies are usually used; the lower for penetration and accurate measure of good conductors, and the higher frequency for strong response to weak conductors.

Distinction between conductive targets, overburden, and host rock responses are made by studying the shape of the secondary field, and the difference in the frequency responses.

The transmitted primary field also creates an emf in the receiver coil, which is much stronger than the secondary, and which must be corrected for by the receiver. This is done by electronically creating an emf in the receiver, whose magnitude is determined by the distance from receiver to transmitter as set on the receiver, and whose phase is derived from the receiver via an interconnecting wire.

Field Method

The Max-Min II survey was carried out in the "maximum coupled" mode (horizontal co-planar). The transmitter and receiver are carried in-line down the survey line separated by a constant distance (in this case 150 m) with the receiver leading.

Three transmitter frequencies were used: 444 Hz, 1777 Hz and 3555 Hz. The transmitter and receiver are connected by a cable, for phase reference and operator communication.

INDUCED POLARIZATION/RESISTIVITY

Theory

The induced polarization (IP) and resistivity exploration methods are electrical methods based on measuring the response of the earth to an applied direct current.

The principle is to apply a known electric current to the earth, and measure the electric potential created by it at the survey location. The resistivity, a bulk property of the rock itself, is calculated from the difference between the applied current and the measured potential, corrected for the geometry of the current and potential electrode configuration.

The induced polarization measurement is based on the "over-voltage" effect. Most of the electric current carried by the earth is conducted by the flow of ions in the solutions filling the pore spaces in the rock. At the surface of any metallic particle in the path of current flow, the ionic flow in the solution is changed to an electronic flow in the metal. In the process of the change, an electric charge of trapped ions is built up at the surface of the metal, storing a small voltage. If the voltage increases, the apparent resistance of the rock also increases. If the applied current flow is decreased or

stopped, the voltage will create a potential in the same direction to the original applied current.

In time domain induced polarization the applied current is abruptly stopped, and the reverse potential created by the over-voltage effect is measured over time as it quickly decays. The definition of chargeability is:

$$M = \frac{V\ (t = \infty) - V\ (t = 0)}{V\ (t = \infty)}$$

where V (t = 0) is the voltage at turnoff, and V (t = ∞) is the late-time voltage. This is usually measured over a certain time period after turn-off as an integral of voltage over time, corrected for the length of the time period, and normalised to the voltage at time 0. It is usually expressed in millivolts per volt (mV/V).

The over-voltage charge takes time to build-up or decay, so that if the applied current is caused to oscillate more and more frequently, the apparent resistance will decrease, as the over-voltage does not have time to build at higher frequencies. This effect is used to measure the IP effect in frequency domain IP surveys, wherein the current is applied at two or more frequencies, and the "percent frequency effect" (PFE) is calculated from the change in resistivities (P) between the different frequencies.

$$PFE = \frac{P\ (\text{low freq}) - P\ (\text{high freq})}{P\ (\text{high freq})} \times 100\ \%$$

Although not identical, for most purposes the PFE is approximately equal to the chargeability.

Because the IP effect responds to effects on small metallic particles, it is particularly useful for detecting disseminated metallic minerals. Also because of this, it will respond strongly to the "membrane polarisation" created by the electric charges resident on clay particles or layered or fibrous minerals.

Field Method

The survey was conducted using a pole-dipole array with a dipole length of 25 m and array spacings of n = 2, 3, 4, 5 dipoles. This array configuration involves having a dipole for the receiver measuring Vp, the potential and a single current transmitter electrode on the grid, separated from the receiver dipole by each 'n' interval in turn. The other current electrode, 'the infinity' is situated 2 kilometers or more from the grid.

For this survey the measurements were taken in the time domain, so the transmitted current was a bipolar on-off square wave with each on or off lasting two seconds. Measurements of resistivity and chargeability were taken.

PERSONNEL AND EQUIPMENT

The surveys were conducted by Robert S. Middleton

Exploration Services Inc. The electromagnetic and induced polarization surveys were conducted in two or more stages. The magnetics and Max Min data were collected by Ty Fong, Wayne Mitchell, John Burton, Greg Carter and Pete Reid. The IP crews were composed of four persons, an operator/party chief, Ted Anderson, a transmitter operator and two assistants.

The magnetic data were collected with two EDA PPM-350 proton procession magnetometers and a PPM 400 base station magnetometer. The electromagnetic instrument was an Apex Parametrics Max Min II+. The IP crew used a Scintrex IPR-11 receiver and a Scintrex TSQ-3, 3 KW transmitter. Specifications for these instruments are included in Appendix A.

SURVEY STATISTICS

The grid had 92.4 km of lines out of which 86.6 line km of magnetics were surveyed and 81.2 line km EM were surveyed. The IP crew surveyed 26.3 line km of n= 2 to 5, 25m dipoles in 21 production days. There were 6 mobilization days.

INTERPREATION

The electromagnetic survey detected mostly very weak anomalies, which are probably due to overburden sources. There is one moderate conductor, which appears to be due to a fairly deep source at 525N, 2400W. This conductor does not extend to the surrounding lines, but is significant because of its proximity to the plotted positions of the airborne INPUT anomalies. Also

close to the same location is an IP anomaly, which extends from 600N and 2600W to 625N and L2400W and possibly to 600N and L2600W. The IP anomaly is narrow (mostly less than 25m) and irregular.

A stronger, larger IP anomaly at 1300N extends from L2200 to L1500W. The chargeabilities are up to 9m V/V. This anomaly is associated with a moderate resistivity high which is interpreted as being caused by sand ridges (based on field operators observations).

There is one significant bedrock conductor on the grid, according to the resistivity data, It is at 1000N and L1700W, and is associated with a weak chargeability anomaly.

There are roughly a dozen other scattered weak chargeability anomalies, which are interpretedes being due to bedrock ridges.

There is no apparent ground geophysical anomaly associated with the INPUT anomaly in the area of 1000S, and L3200W.

CONCLUSIONS AND RECOMMENDATIONS

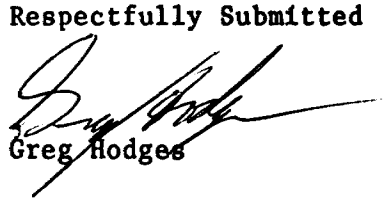
There are three zones outlined on the grid which are significant: the IP anomalies at 600N, 2400 to 2600W, 1300N, 1500W to 2200W; and the conductor at 1000N, 1700W. These anomalies are of weak to moderate strength, and the magnetic surveys show no strong structural associations. Each of the larger two IP zones is coincident with airborne EM INPUT anomalies.

Further geophysics is not recommended on this grid at this stage. Deep EM surveying (probably fixed transmitter, time domian EM) may be effective at detecting the source of the INPUT anomaly at 1000S, 3100W, but without further indicaton of some significance to the airborne conductors this is not recommended.

Diamond drill testing ofthe two main IP zones is recommended, on a low priority basis. Drilling of the targets at L2000W, 1325N and at L2600W, 600N is recommended.

Further work would be decided based on the results of these holes.

Respectfully Submitted



Greg Hodges

Geophysicist

REFERENCES

Questor Surveys, 1986: Interpretation Report Input Mk VI Electromagnetic/Magnetic Survey, Glen Auden Resources Limited. St Laurent Township, Ontario, Project No. 28036A

CERTIFICATION

I, D. Greg Hodges, of 136 Cedar Street South, in the city of Timmins, Province of Ontario, certify as follows concerning my report on the Tarzan Gold Inc. property in St Laurent Township, Province of Ontario and dated May 25, 1988:

1. I am a member in good standing of the Society of Exploration Geophysicists

2. I am a graduate of Queen's University at Kingston, Ontario, with a B.Sc. (Hons.) Geological Sciences with Physics, obtained in 1980.

3. I have been practising in Canada, and occasionally in the United States, Europe, and Australia for the past eight years.

4. I have no direct interest in the properties, leases, or securities of Tarzan Gold Inc, nor do I expect to receive any.

5. The attached report is a product of:

   a) Examination of data included in the report which was collected on the property concerned.

Dated this May 25, 1988
Timmins, Ontario

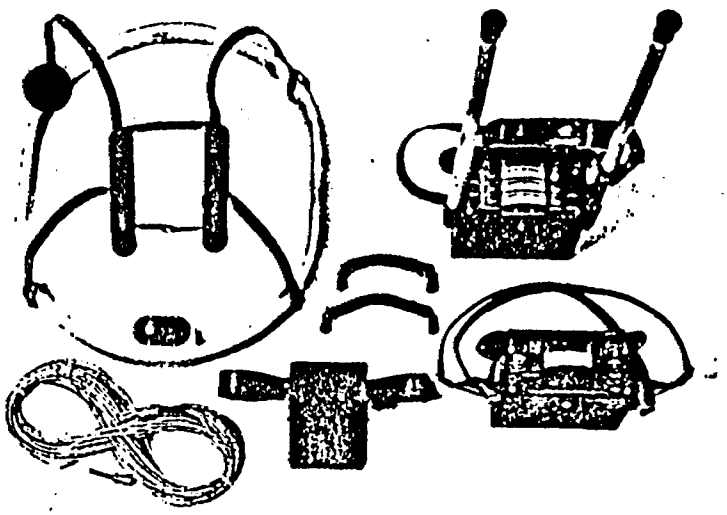
D. Greg Hodges, Geophysicist

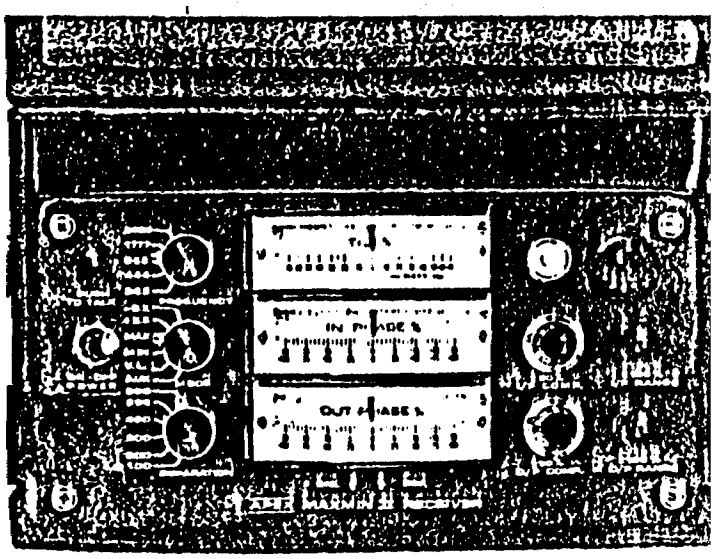
A P P E N D I X A

APEX MAXMIN II PORTABLE EM

- Five frequencies: 222, 444, 888, 1777 and 3555 Hz.
- Maximum coupled (horizontal-loop) operation with reference cable.
- Minimum coupled operation with reference cable.
- Vertical-loop operation without reference cable.
- Coil separations: 25, 50, 100, 150, 200 and 250 m (with cable) or 100, 200, 300, 400, 600 and 800 ft.
- Reliable data from depths of up to 180 m (600 ft).
- Built-in voice communication circuitry with cable.
- Tilt meters to control coil orientation.

NOW ALSO ±4% QUADRATURE FULL SCALE.





SPECIFICATIONS:

Frequencies: 222, 444, 888, 1777 and 3555 Hz.

Modes of Operation:
- MAX: Transmitter coil plane and receiver coil plane horizontal (Max-coupled; Horizontal-loop mode). Used with reference cable.
- MIN: Transmitter coil plane horizontal and receiver coil plane vertical (Min-coupled mode). Used with reference cable.
- V.L.: Transmitter coil plane vertical and receiver coil plane horizontal (Vertical-loop mode). Used without reference cable, in parallel lines.

Coil Separations: 25, 50, 100, 150, 200 & 250m (MMII) or 100, 200, 300, 400, 600 and 800 ft. (MMIIF).
Coil separations in V.L. mode not restricted to fixed values.

Parameters Read:
- In-Phase and Quadrature components of the secondary field in MAX and MIN modes.
- Tilt-angle of the total field in V.L. mode.

Readouts:
- Automatic, direct readout on 90mm (3.5") edgewise meters in MAX and MIN modes. No nulling or compensation necessary.
- Tilt angle and null in 90mm edgewise meters in V.L. mode.

Scale Ranges:

NOW ALSO ±4% QUADRATURE FULL SCALE.

In-Phase:	±20%, ±100% by push-button switch.
Quadrature:	±20%, ±100% by push-button switch.
Tilt:	±75% slope.
Null (V.L.):	Sensitivity adjustable by separation switch.

Readability: In-Phase and Quadrature: 0.25% to 0.5%; Tilt: 1%.

Repeatability: ±0.25% to ±1% normally, dependi on conditions, frequencies and c separation used.

Transmitter Output:
- 222Hz: 220 Atm²
- 444Hz: 200 Atm²
- 888Hz: 120 Atm²
- 1777Hz: 60 Atm²
- 3555Hz: 30 Atm²

Receiver Batteries: 9V trans. radio type batteries Life: approx. 35hrs. continuous ty (alkaline, 0.5 Ah), less in c weather.

Transmitter Batteries: 12V 8Ah Gel-type rechargea battery. (Charger supplie

Reference Cable: Light weight 2-conductor tef cable for minimum friction. Unshi ed. All reference cables optio at extra cost. Please spec

Voice Link: Built-in intercom system voice communication between ceiver and transmitter operat in MAX and MIN modes, via ference cable.

Indicator Lights: Built-in signal and reference wa ing lights to indicate erroneo readings.

Temperature Range: -40°C to +60°C (-40°F to +140

Receiver Weight: 8kg (13 lbs.)

Transmitter Weight: 13kg (29 lbs.)

Shipping Weight: Typically 60kg (135 lbs.), depe ing on quantities of referer cable and batteries incluc Shipped in two field/shipping ca

Specifications subject to change without notificat

APEX PARAMETRICS LIMITED
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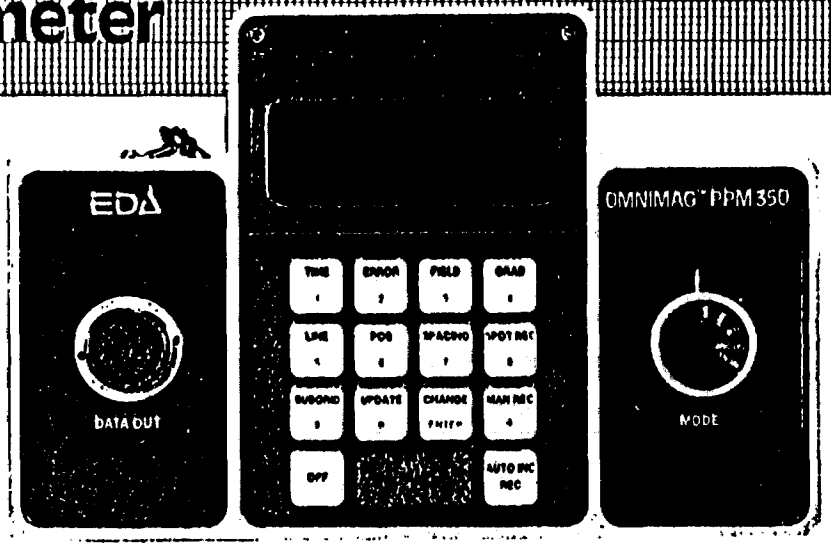
Phone: (416) 495-1612 Cables: APEXPARA TORONTO Telex:

OMNIMAG PPM-350
Total Field Magnetometer

EDA



The PPM-350 is the latest addition to EDA's OMNIMAG*™ series of magnetometers and gradiometers. It is engineered to provide users with the latest state-of-the-art advances in microprocessor technology, including many features that are unique in the field.

Major benefits and features include:

- Significant increase in productivity
- Lowered survey costs
- Automatic diurnal correction
- Programmable grid coordinates
- Highly reproduceable data
- Ergonomic design
- Simplified fieldwork
- Computer-compatible

Specifications

Dynamic Range	18,000 to 93,000 gammas
Sensitivity	±0.02 gamma
Statistical Error Resolution	0.01 gamma
Standard Memory Capacity	1383 data blocks or readings
Absolute Accuracy	±15 ppm at 23°C, 50 ppm over the operating temperature range
Display Resolution	0.1 gamma
Capture Range	±25% relative to ambient field strength of last stored value
Display	Custom-designed, ruggedized liquid crystal display with an operating temperature range from −35°C to +55°C
Gradient Tolerance	5,000 gammas per meter
Sensor	Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy
Sensor Cable	Remains flexible in temperature range; includes low strain connector
Operating Environmental Range	−35°C to +55°C; 0–100% relative humidity; weather-proof
Power Supply	Non-magnetic rechargeable sealed lead acid battery cartridge or belt; or, Disposable "C" cell battery cartridge or belt
Battery Cartridge Life	2,000 to 5,000 readings, depending upon ambient temperature and rate of readings
Weight and Dimensions	
Instrument Console only	3.4 kg, 238 x 150 x 250 mm
Lead Acid Battery Cartridge	1.9 kg
Sensor	1.2 kg, 56 mm diameter x 200 mm
System Complement	Electronics console; sensor with 3-meter cable; sensor staff; power supply; harness assembly; operation manual.

EDA is a pioneer in the development of advanced geophysical systems and has created many innovations that increase field productivity and lower survey costs.

EDA's OMNIMAG series consists of the PPM-350 Total Field Magnetometer, PPM-400 Base Station Magnetometer, and the PPM-500 Vertical Gradiometer. Contact us *now* for details.

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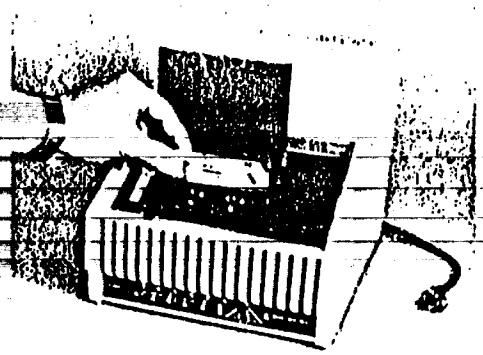
E D A Instruments Inc.
5151 Ward Road
Wheat Ridge, Colorado
U.S.A. 80033
Telex: 00 450681 DVR
(303) 422-9112

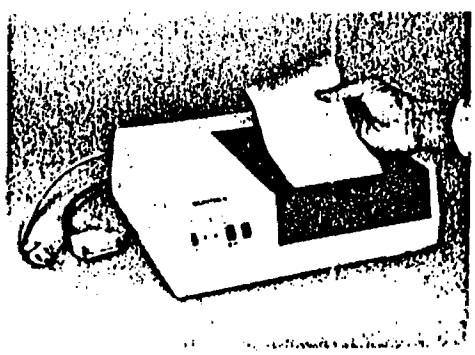
Printed in Canada

Technical Description of the IPR-11 Broadband Time Domain IP Receiver

Input Potential Dipoles	1 to 6 simultaneously
Input Impedance	4 megohms
Input Voltage (Vp) Range	100 microvolts to 6 volts for measurement. Zener diode protection up to 50 V
Automatic SP Bucking Range	±1.5 V
Chargeability (M) Range	0 to 300 mV/V (mils or 0/00)
Absolute Accuracy of Vp, SP and M	Vp; ±3% of reading for Vp > 100 microvolts SP; ±3% of SP bucking range M; ±3% of reading or minimum ±0.5m V/V
Resolution of Vp, SP and M	Vp; 1 m V above 100 m V approaching 1 microvolt at 100 microvolt SP; 1 m V M; 0.1 m V/V except for M_0 to M_3 in 0.2 second receive time where resolution is 0.4 m V/V.
IP Transient Program	Ten transient windows per input dipole. After a delay from current off of t, first four windows each have a width of t, next three windows each have a width of 6t and last three windows each have a width of 12t. The total measuring time is therefore 58t. t can be set at 3, 15, 30 or 60 milliseconds for nominal total receive times of 0.2, 1, 2 and 4 seconds.
Vp Integration Time	In 0.2 and 1 second receive time modes; 0.51 sec In 2 second mode; 1.02 sec In 4 second mode; 2.04 sec
Transmitter Timing	Equal on and off times with polarity change each half cycle. On/off times of 1, 2, 4 or 8 seconds with ±2.5% accuracy are required.
Header Capacity	Up to 17 four digit headers can be stored with each observation.
Data Memory Capacity	Depends on how many dipoles are recorded with each header. If four header items are used with 6 dipoles of SP, Vp and 10 M windows each, then about 200 dipole measurements can be stored. Up to three Optional Data Memory Expansion Blocks are available, each with a capacity of about 200 dipoles.
External Circuit Check	Checks up to six dipoles simultaneously using a 31 Hz square wave and readout on front panel meters, in range of 0 to 200 k ohms.
Filtering	RF filter, spheric spike removal; switchable 50 or 60 Hz notch filters, low pass filters which are automatically removed from the circuit in the 0.2 sec receive time.
Internal Calibrator	1000 mV of SP, 200 mV of Vp and 24.3 mV/V of M provided in 2 sec pulses.
Digital Display	Two, 4 digit LCD displays. One presents data, either measured or manually entered by the operator. The second display; 1) indicates codes identifying the data shown on the first display, and 2) shows alarm codes indicating errors.
Analog Meters	Six meters for; 1) checking external circuit resistance, and 2) monitoring input signals.
Digital Data Output	RS-232C compatible, 7 bit ASCII, no parity, serial data output for communication with a digital printer, tape recorder or modem.



Industry standard cassette recorders such as this MFE-2500 can be connected directly to the IPR-11.



DP-4 Digital Printer

Technical Description of the IPR-11 Broadband Time Domain IP Receiver

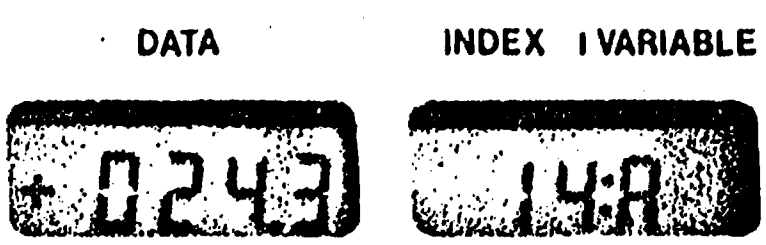
Standard Rechargeable Power Supply	Eight Eveready CH4 rechargeable NiCad D cells provide approximately 15 hours of continuous operation at 25°C. Supplied with a battery charger, suitable for 110/230 V, 50 to 400 Hz, 10 W.
Disposable Battery Power Supply	At 25°C, about 40 hours of continuous operation are obtained from 8 Eveready E95 or equivalent alkaline D cells. At 25°C, about 16 hours of continuous operation are obtained from 8 Eveready 1150 or equivalent carbon-zinc D cells.
Dimensions	345 mm x 250 mm x 300 mm, including lid.
Weight	10.5 kg, including batteries.
Operating Temperature Range	-20 to +55°C, limited by display.
Storage Temperature Range	-40 to +60°C.
Standard Items	Console with lid and set of rechargeable batteries, 2 copies of manual, battery charger.
Optional Items	Multidipole Potential Cables, Data Memory Expansion Blocks, Statistical Analysis Program, Crystal Clock, SPECTRUM Program, Digital Printer, Cassette Tape Recorder, Modem.
Shipping Weight	25 kg includes reusable wooden shipping case.

SCINTREX

222 Snidercroft Road
Concord Ontario Canada
L4K 1B5

Telephone: (416) 669-2280
Cable: Geoscint Toronto
Telex: 06-964570

Geophysical and Geochemical
Instrumentation and Services



IPR-11 LCD displays, actual size

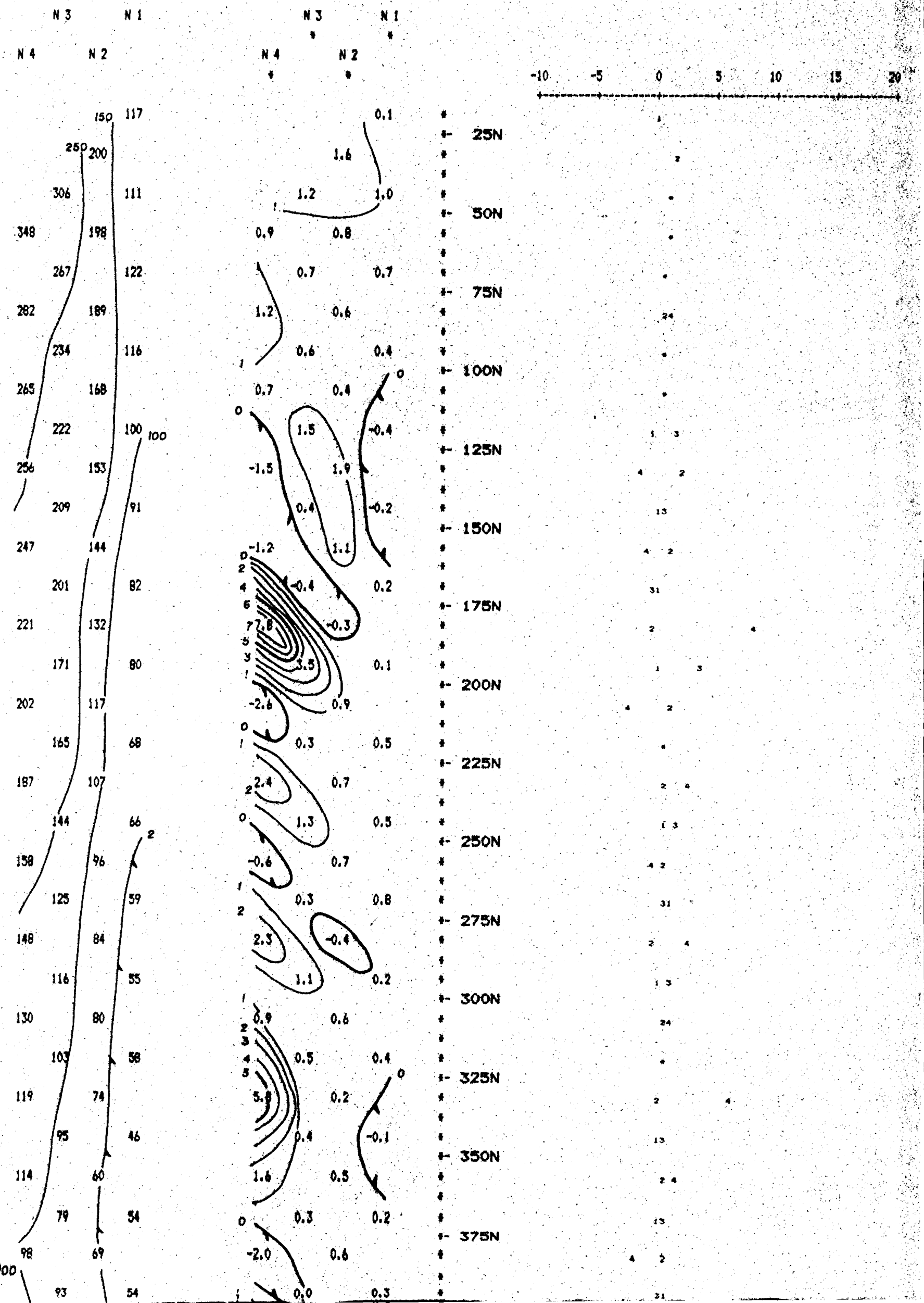
APPENDIX B

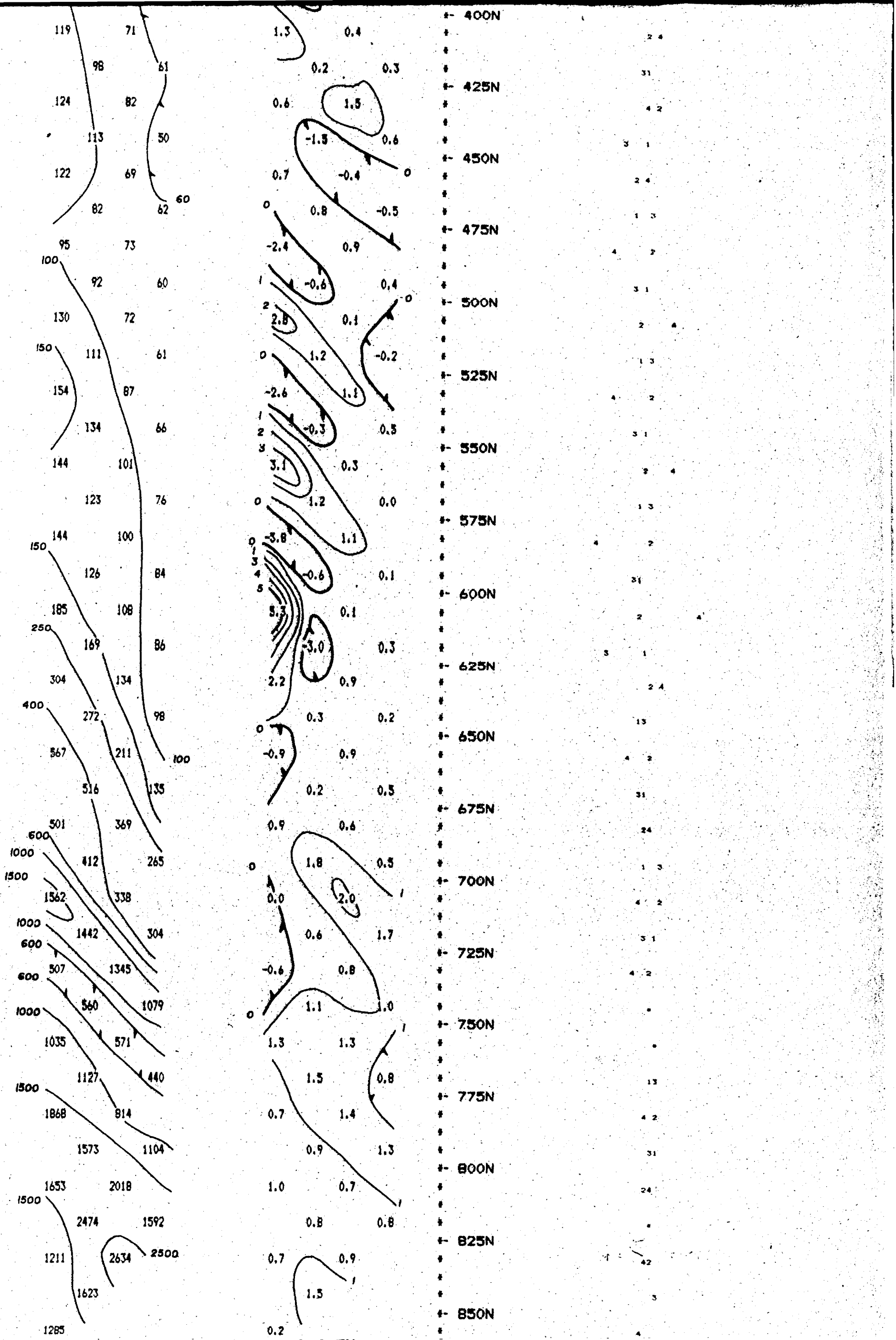
SCALE : 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE




400N
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475N
500N
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550N
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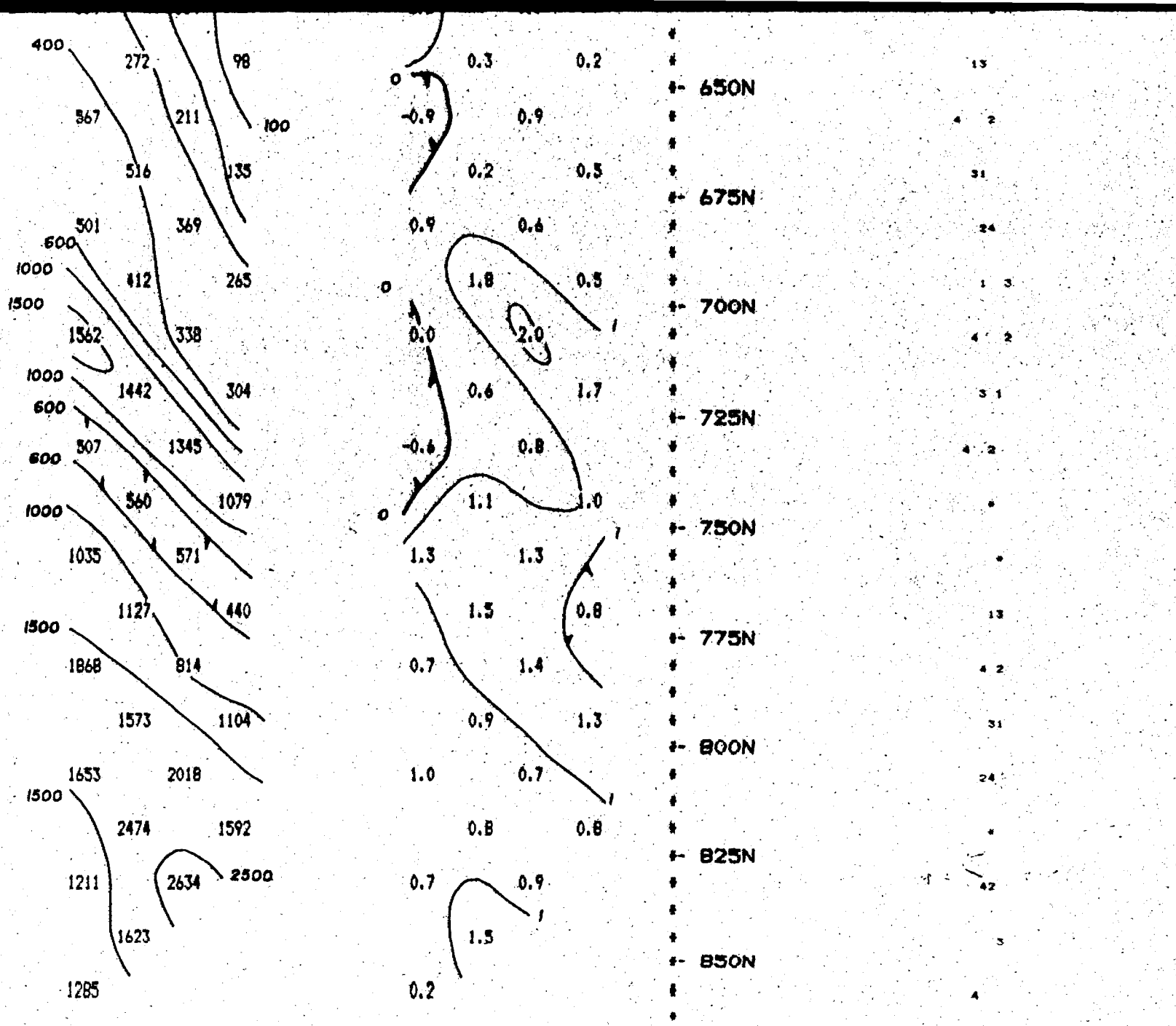
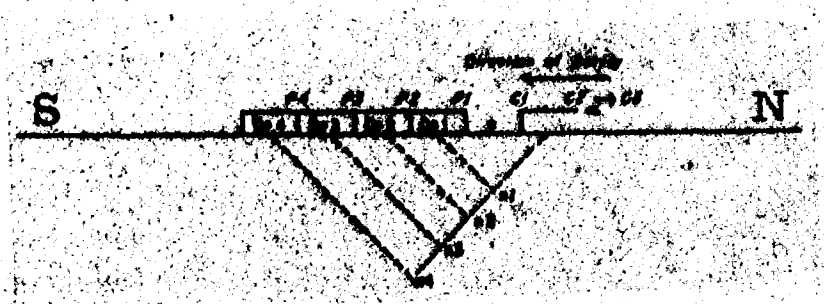
600N
625N
650N
675N
700N
725N
750N
775N
800N
825N
850N



Property : CHIMP GRID
Client : TARZAN GOLD INC.

Date of Survey : 21/3/88
Operator : TAA
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Chargeability Window Plotted : #7
Delay Time : 450 ms
Integration Time : 900 ms



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R. S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

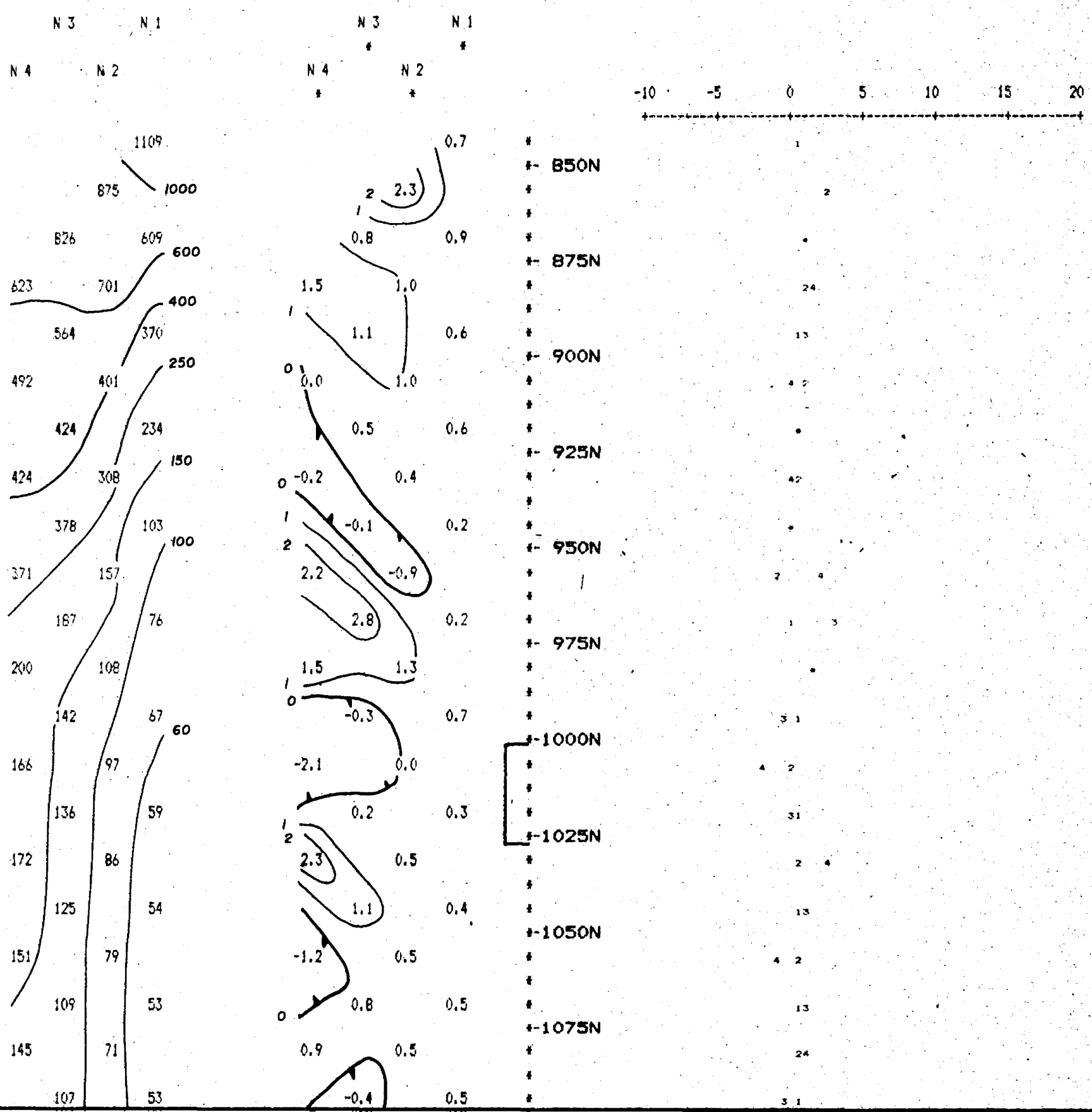
LINE 2 W

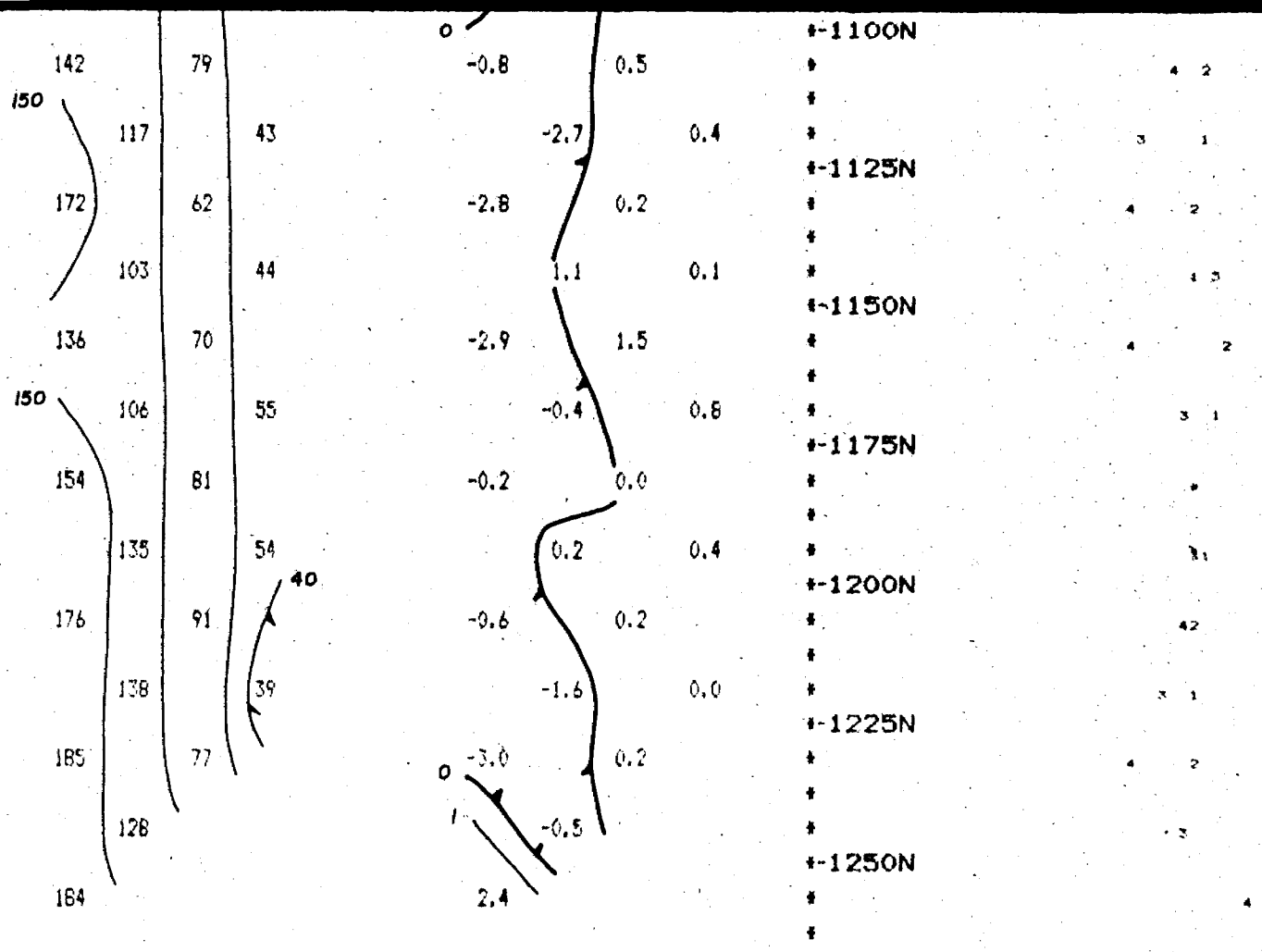
SCALE : 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE





Property : CHIMP GRID

Client : TARZAN GOLD INC.

Date of Survey : 21/3/88

Operator : TAA

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

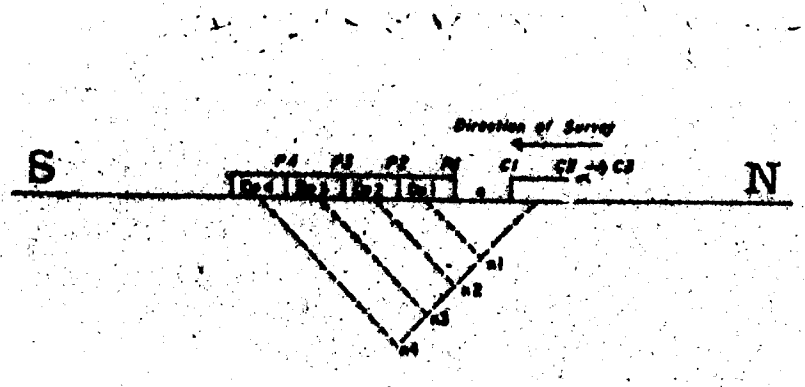
Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Chargeability Window Plotted : #7

Delay Time : 450 ms

Integration Time : 900 ms



****

R. S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

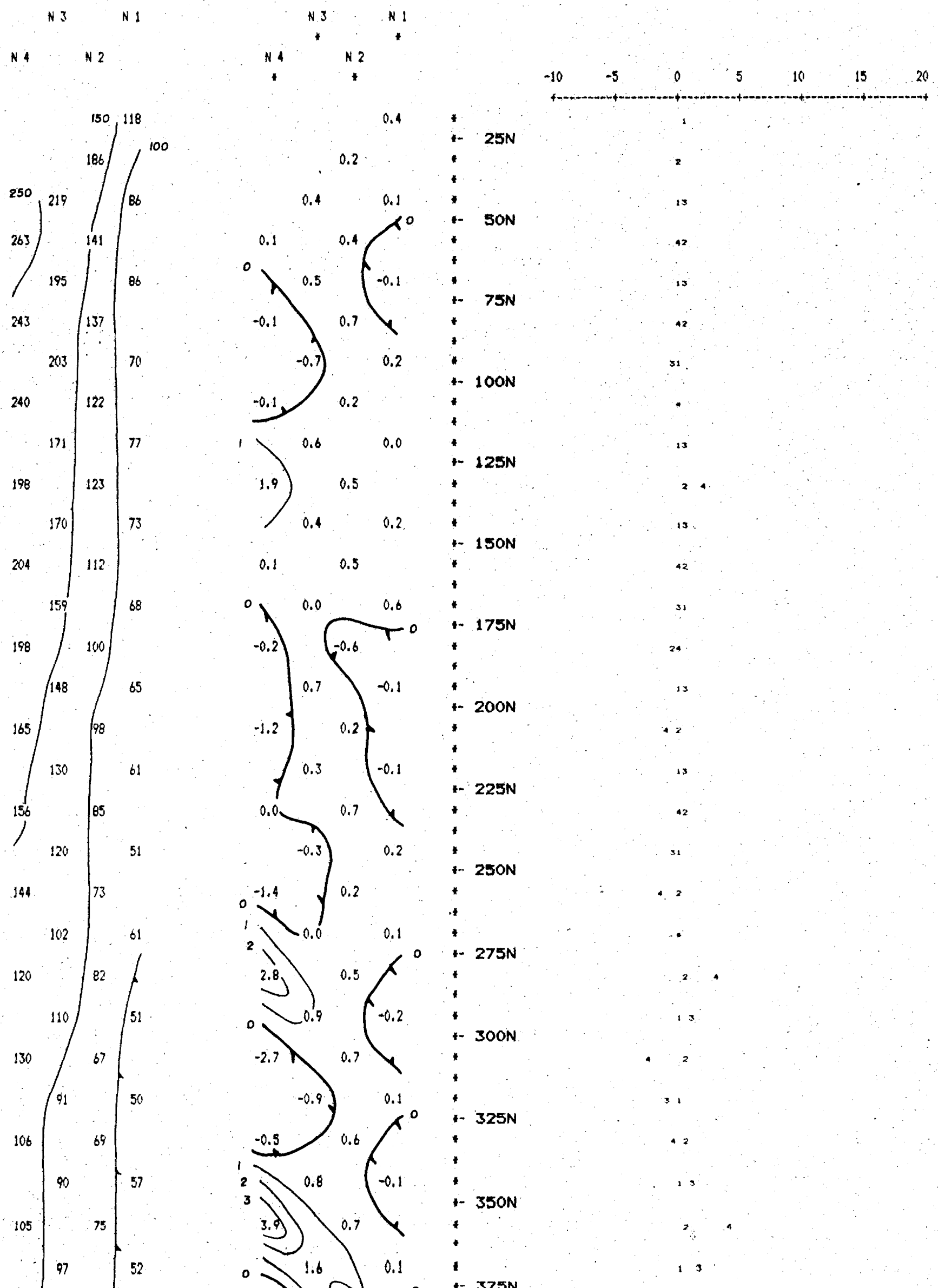
LINE 2 W

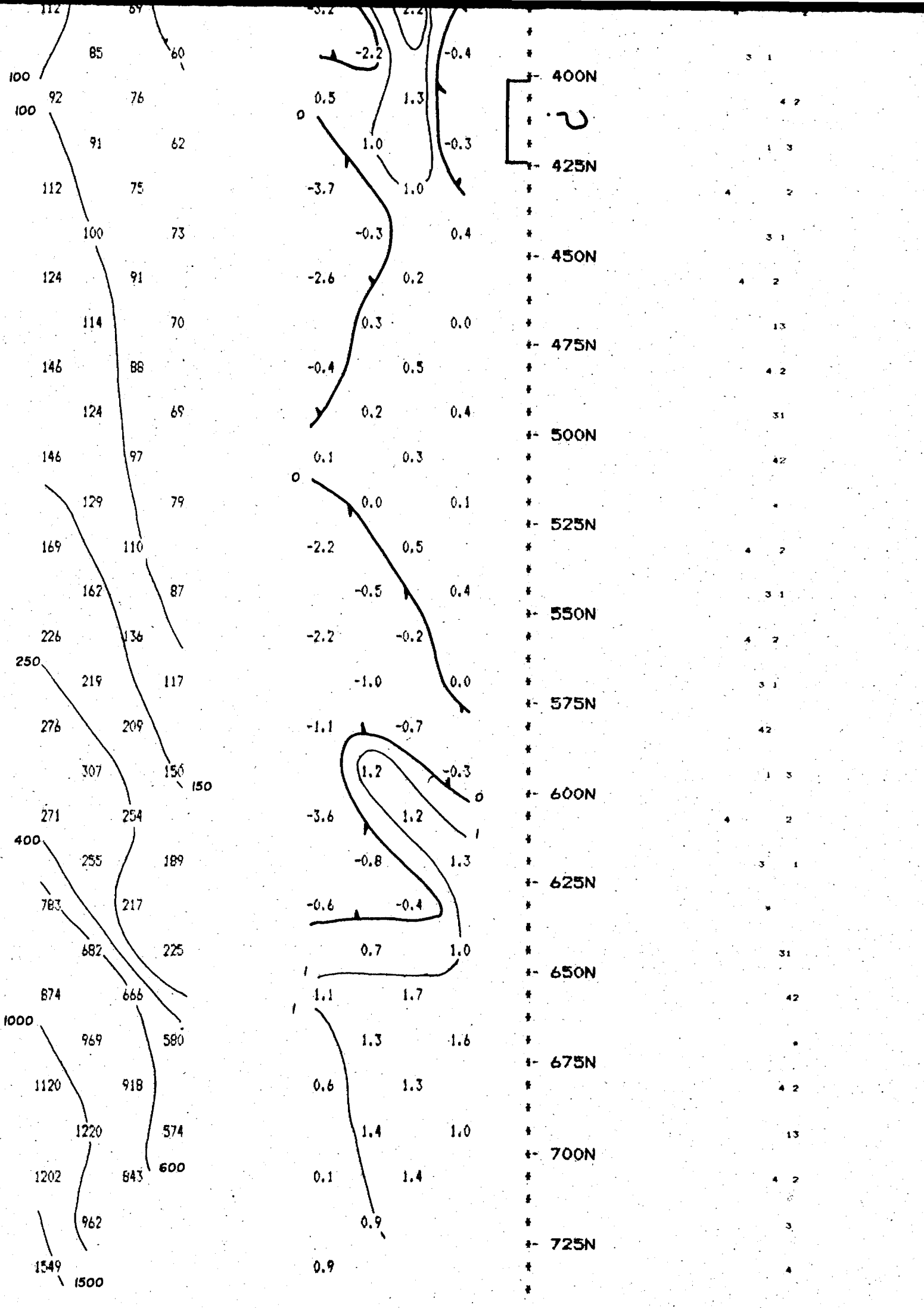
SCALE : 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

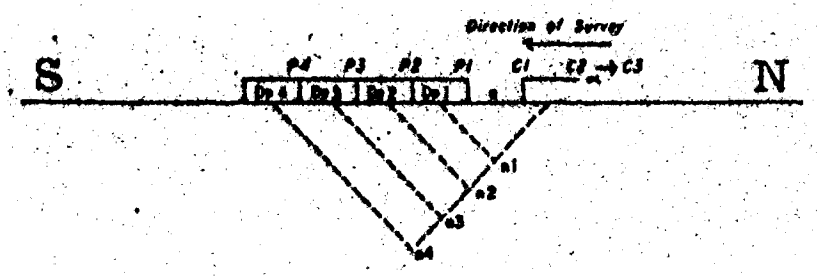
CHARGEABILITY PROFILE





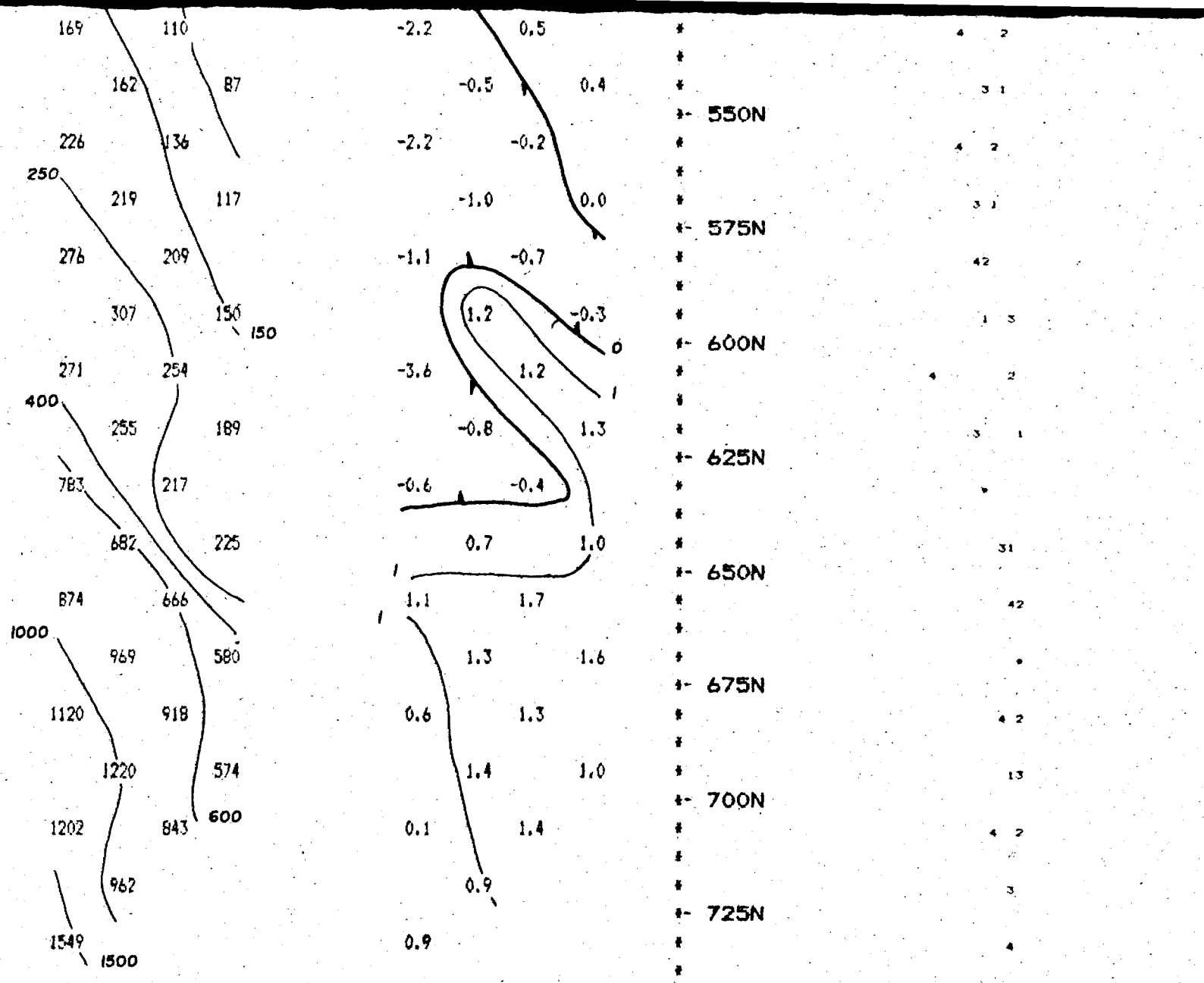
Property : CHIMP GRID
Client : TARZAN GOLD INC.

Date of Survey : 21/3/88
Operator : TAA
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Chargeability Window Plotted : #7
Delay Time : 450 ms
Integration Time : 900 ms

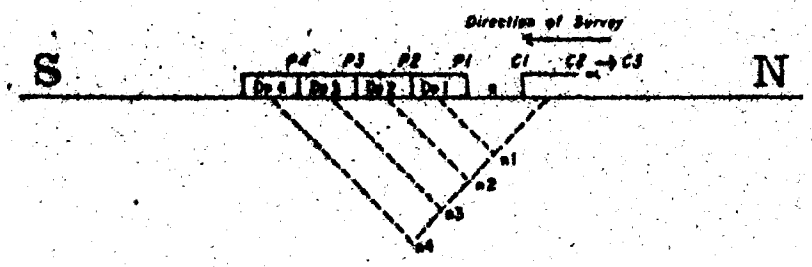


R. S. MIDDLETON EXPLORATION SERVICES INC.

IP Pseudosections for N = 1 to 4



Property : CHIMP GRID
Client : TARZAN GOLD INC.



Date of Survey : 21/3/88
Operator : TAA
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Chargeability Window Plotted : #7
Delay Time : 450 ms
Integration Time : 900 ms

****

R. S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

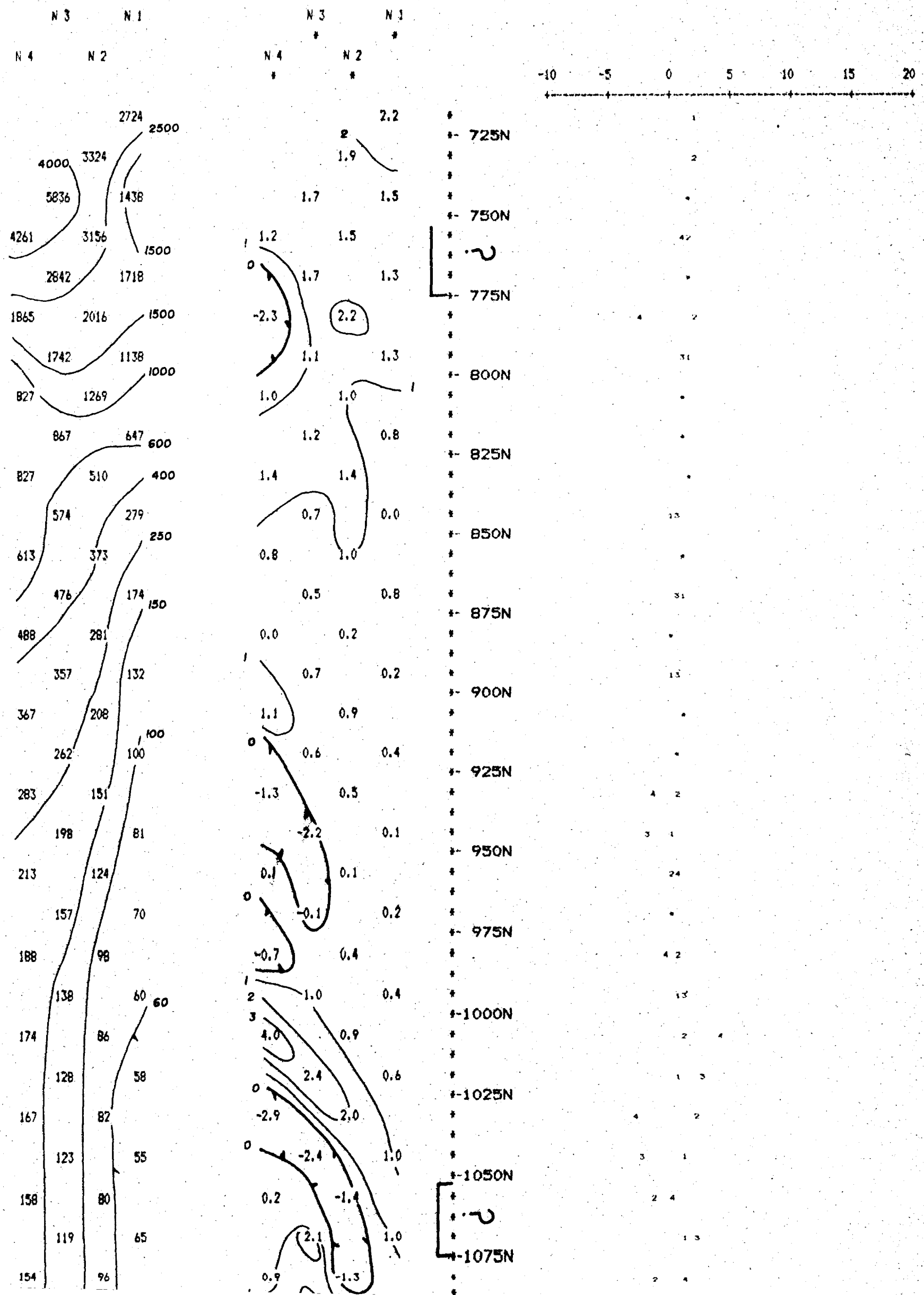
LINE 4 W

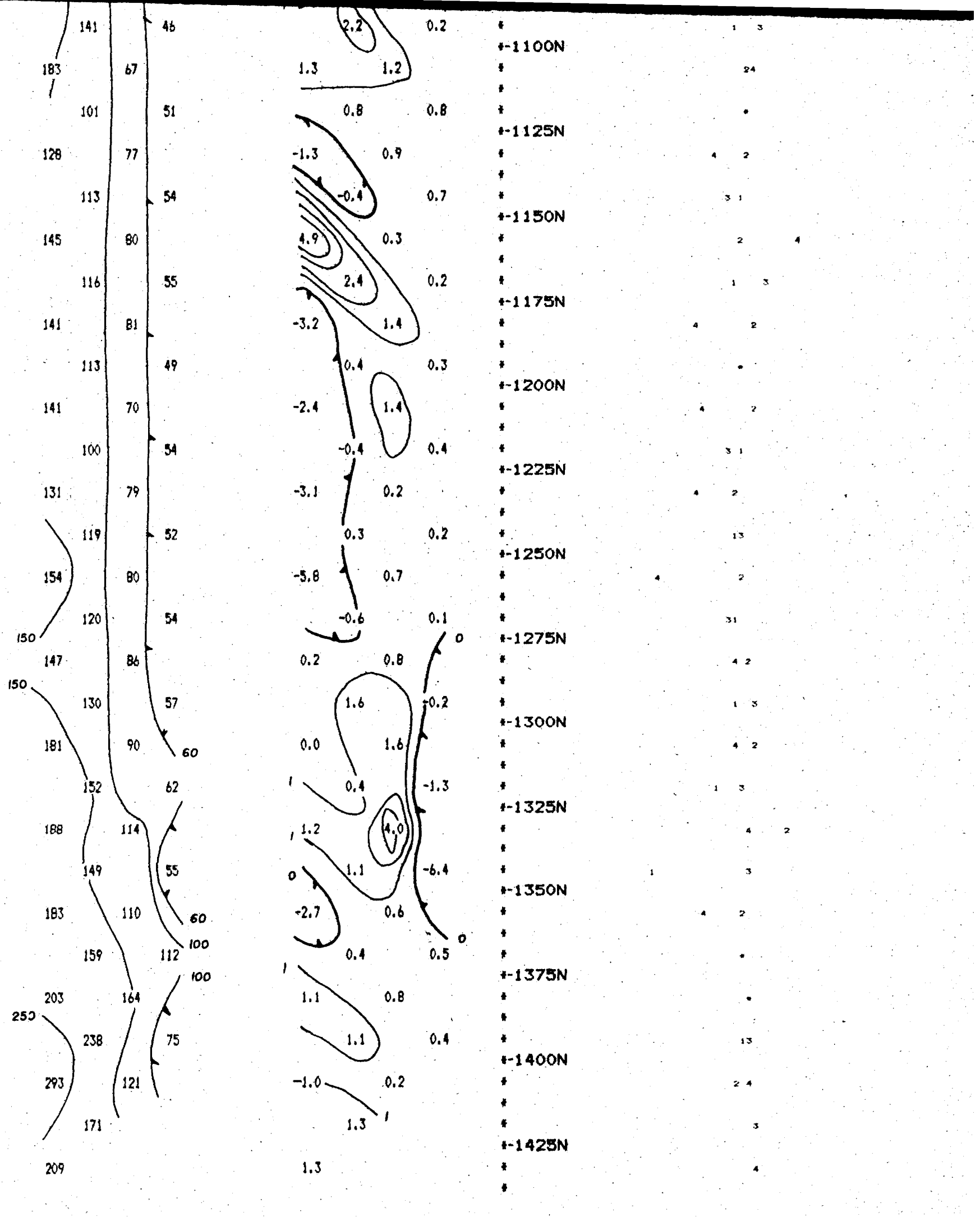
SCALE : 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

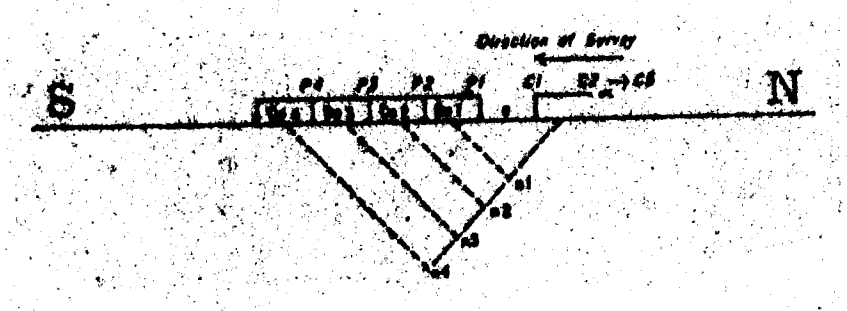
CHARGEABILITY PROFILE





Property : CHIMP GRID
Client : TARZAN GOLD INC.

Date of Survey : 23/3/88
Operator : TAA
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Chargeability Window Plotted : #7
Delay Time : 450 ms
Integration Time : 900 ms



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R. S. MIDDLETON EXPLORATION SERVICES INC.

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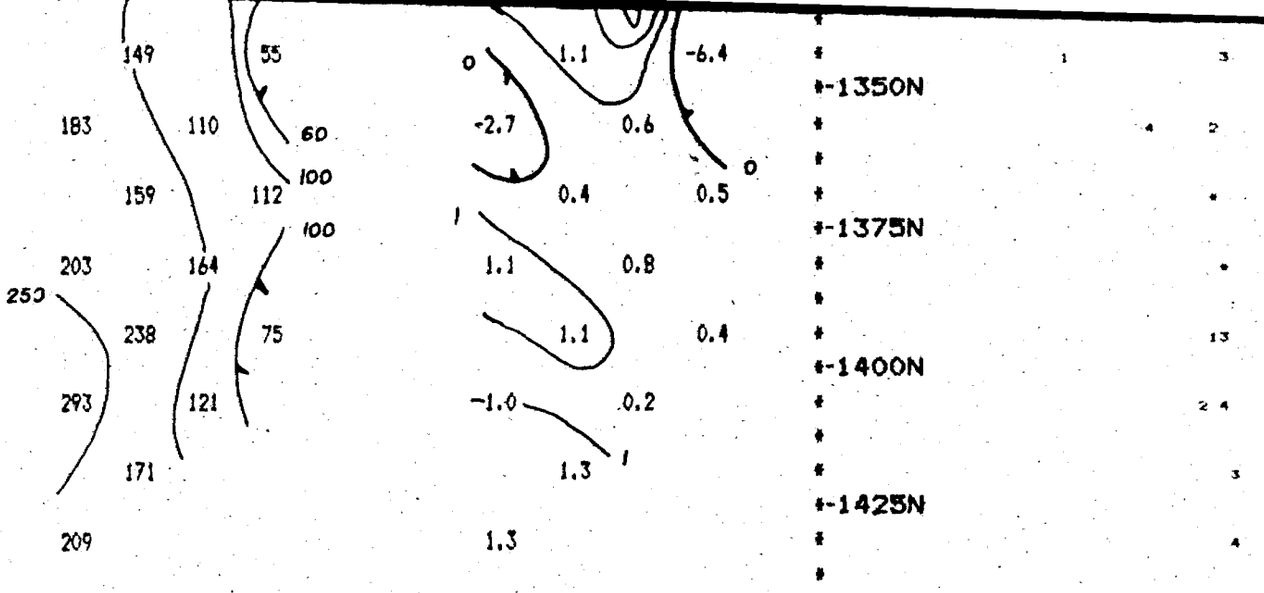
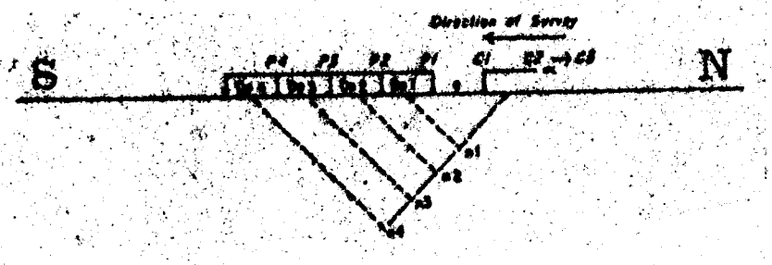
IP Pseudosections for N = 1 to 4



Property : CHIMP GRID
Client : TARZAN GOLD INC.

Date of Survey : 23/3/88
Operator : TAA
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Chargeability Window Plotted : #7
Delay Time : 450 ms
Integration Time : 900 ms



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R. S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

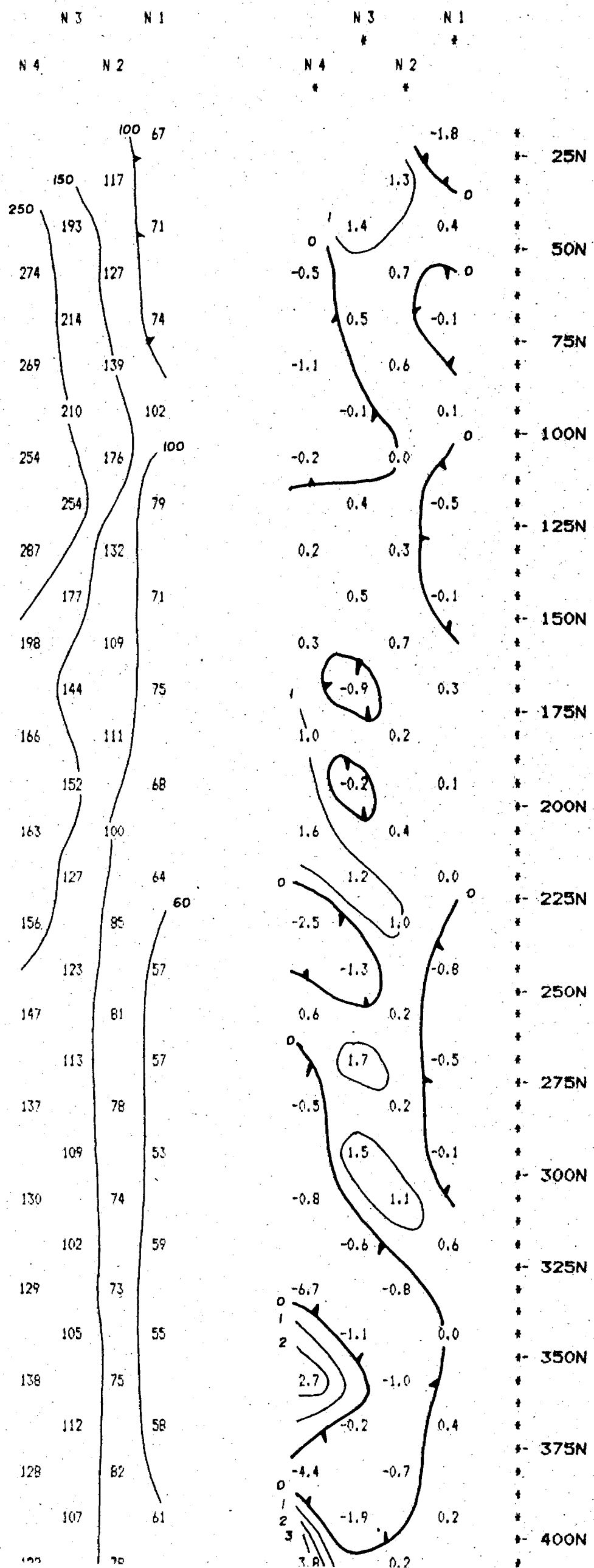
LINE 4 W

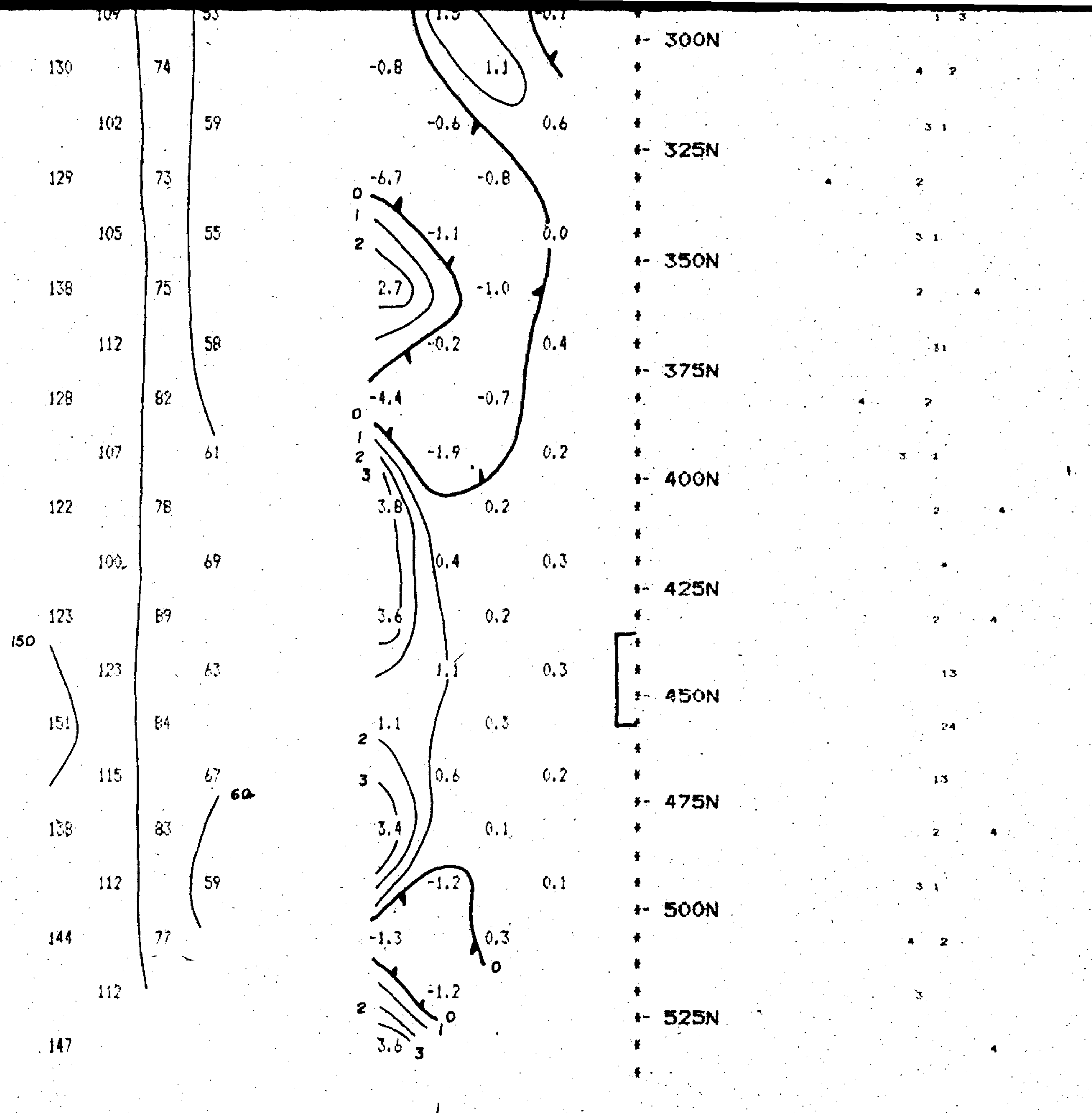
SCALE : 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

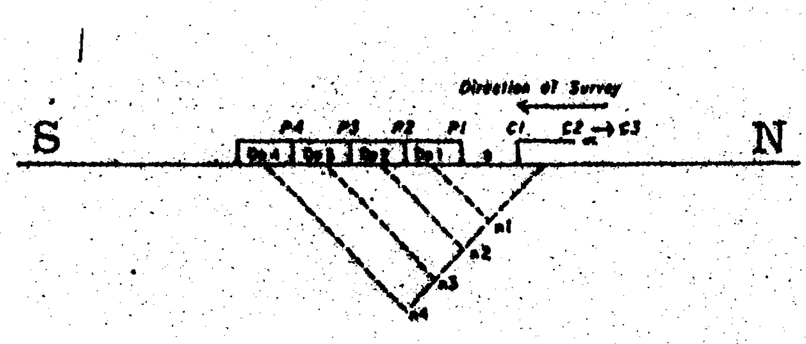
CHARGEABILITY PROFILE





Property : CHIMP GRID
Client : TARZAN GOLD INC.

Date of Survey : 23/3/88
Operator : TAA
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Chargeability Window Plotted : #7
Delay Time : 450 ms
Integration Time : 900 ms



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R. S. MIDDLETON EXPLORATION
SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 6 W

SCALE : 1:1250

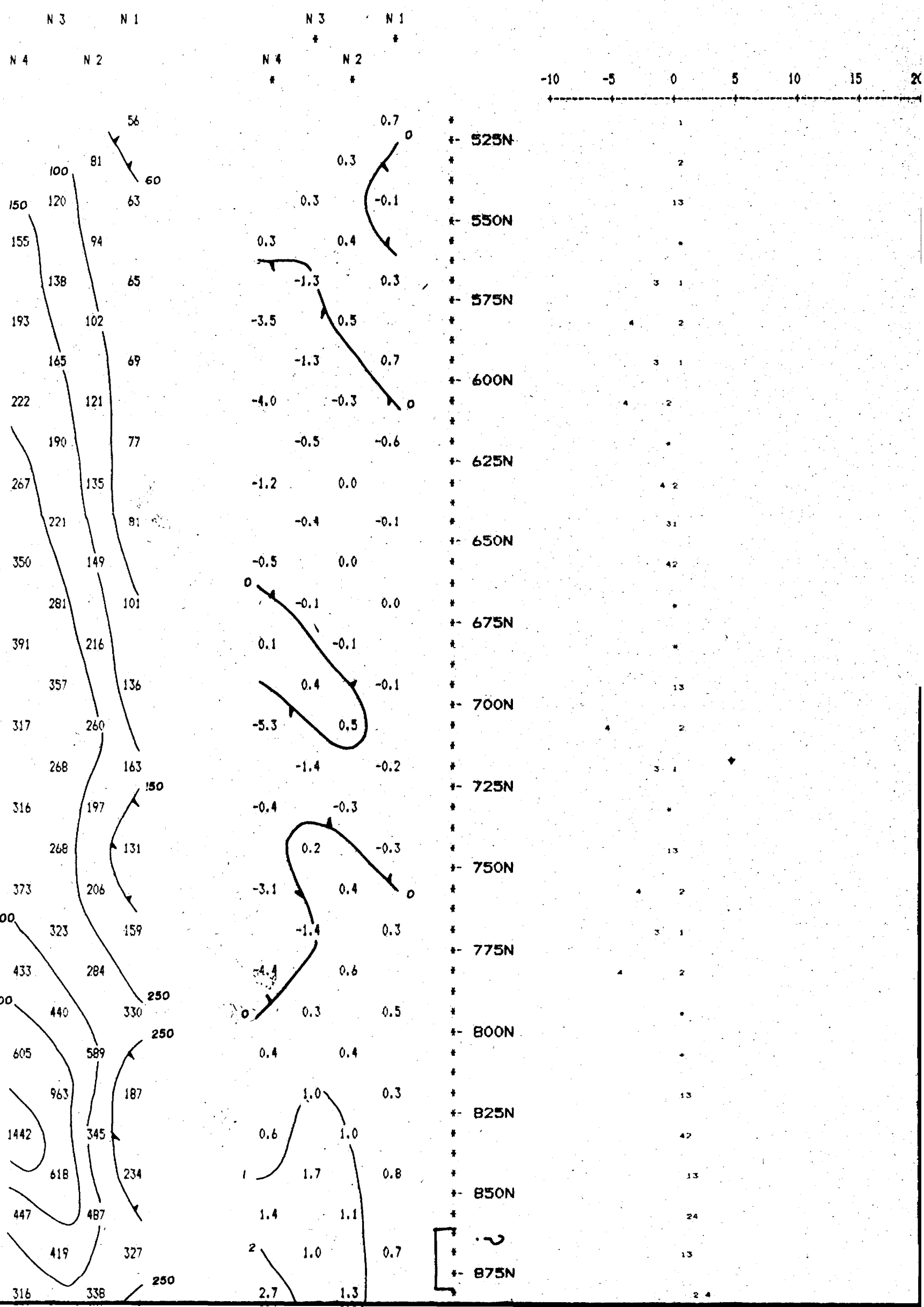
RESISTIVITY

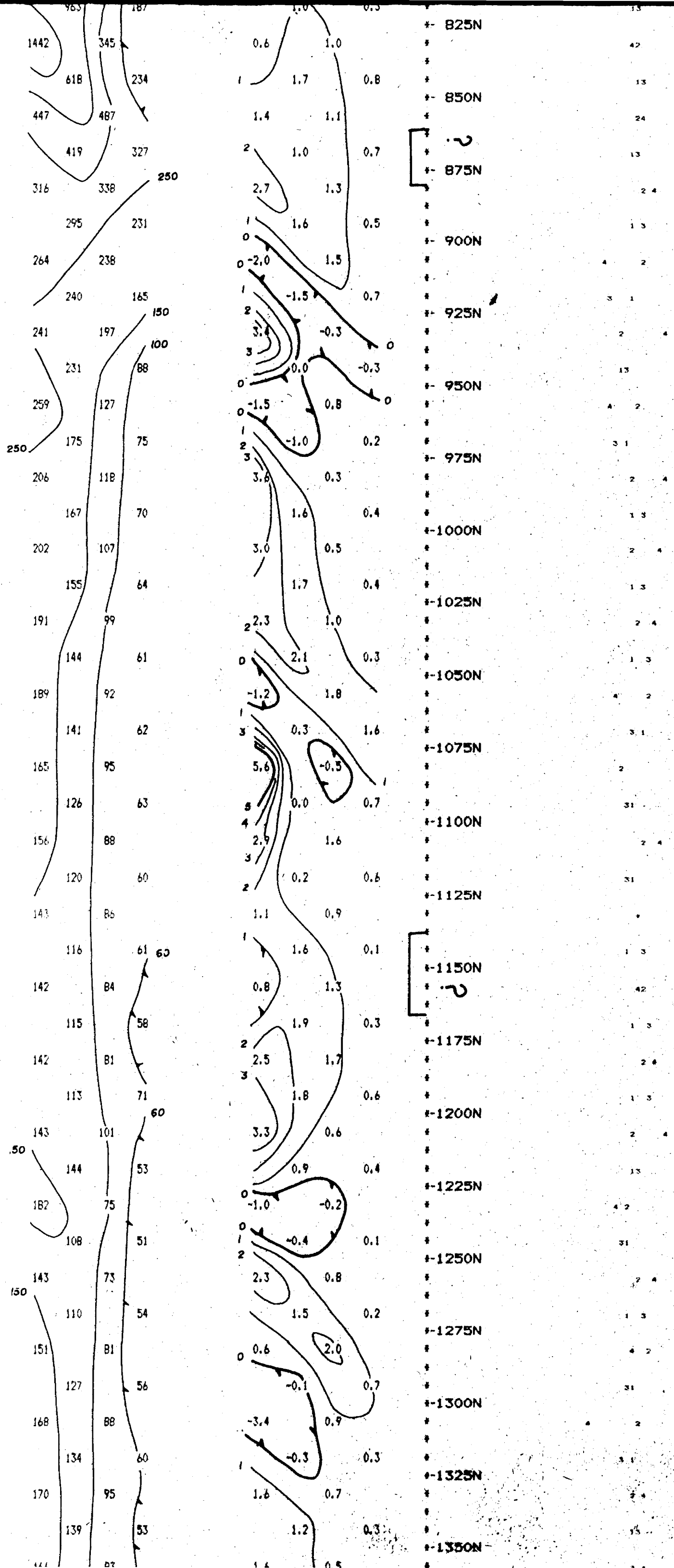
(ohm - metres)

CHARGEABILITY

(milliseconds)

CHARGEABILITY PROFILE

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900N
925N
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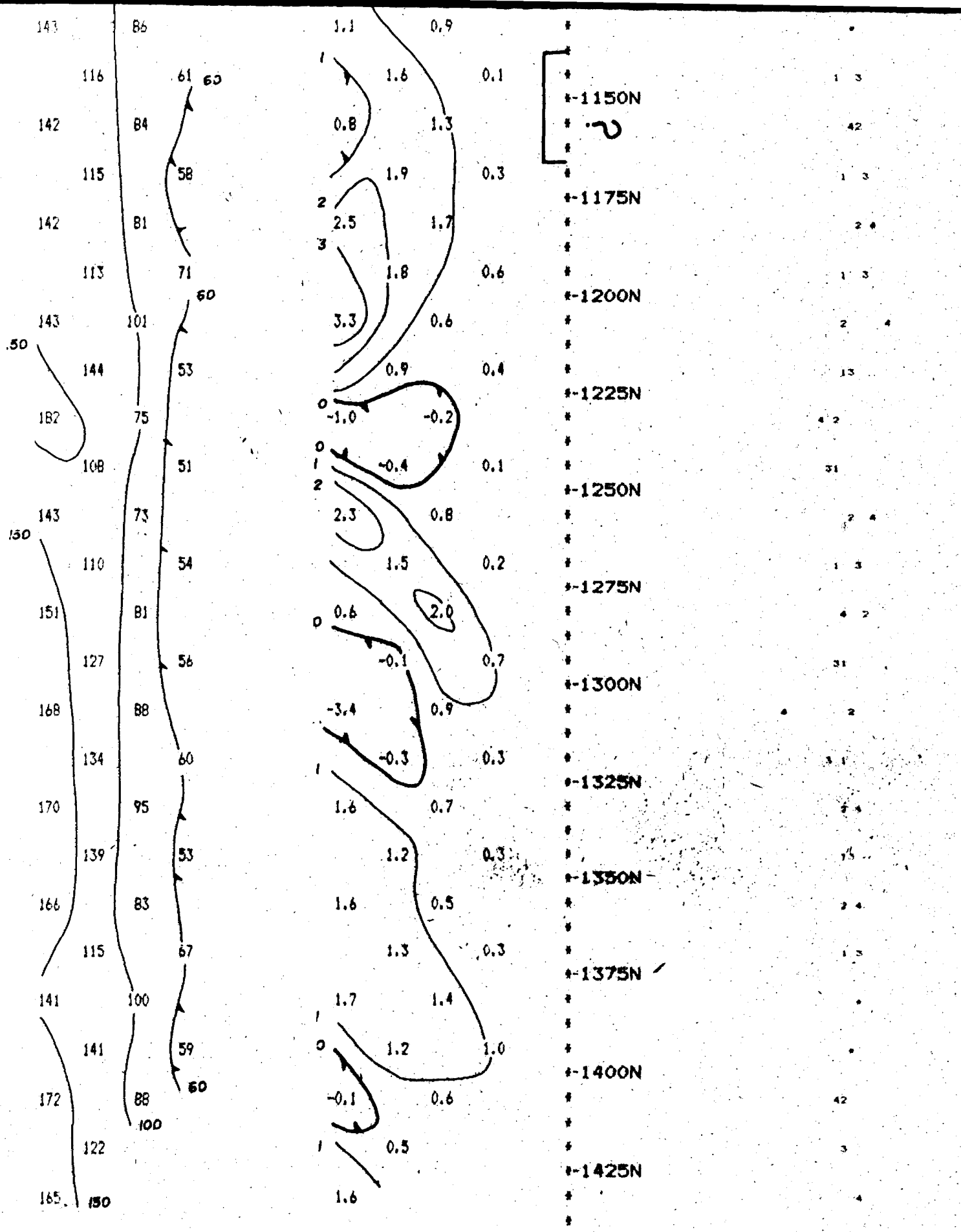
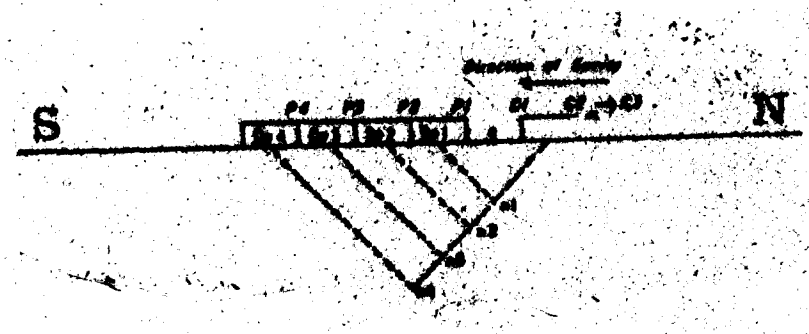
1150N
1175N
1200N
1225N
1250N
1275N
1300N
1325N
1350N



Property : CHIMP GRID
Client : TARZAN GOLD INC.

Date of Survey : 24/3/88
Operator : TAA
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Chargeability Window Plotted : #7
Delay Time : 450 ms
Integration Time : 900 ms



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R. S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

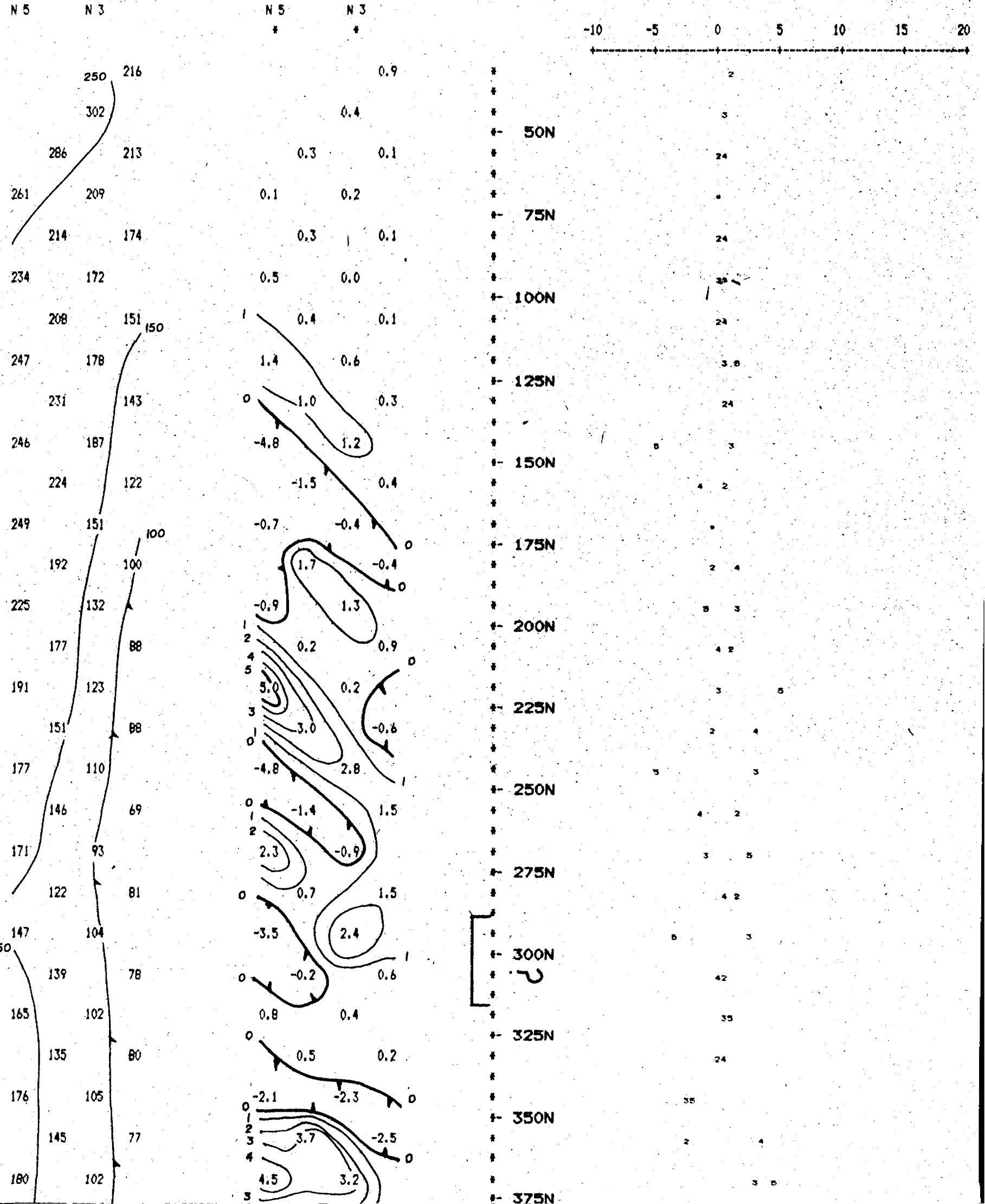
LINE 6 W

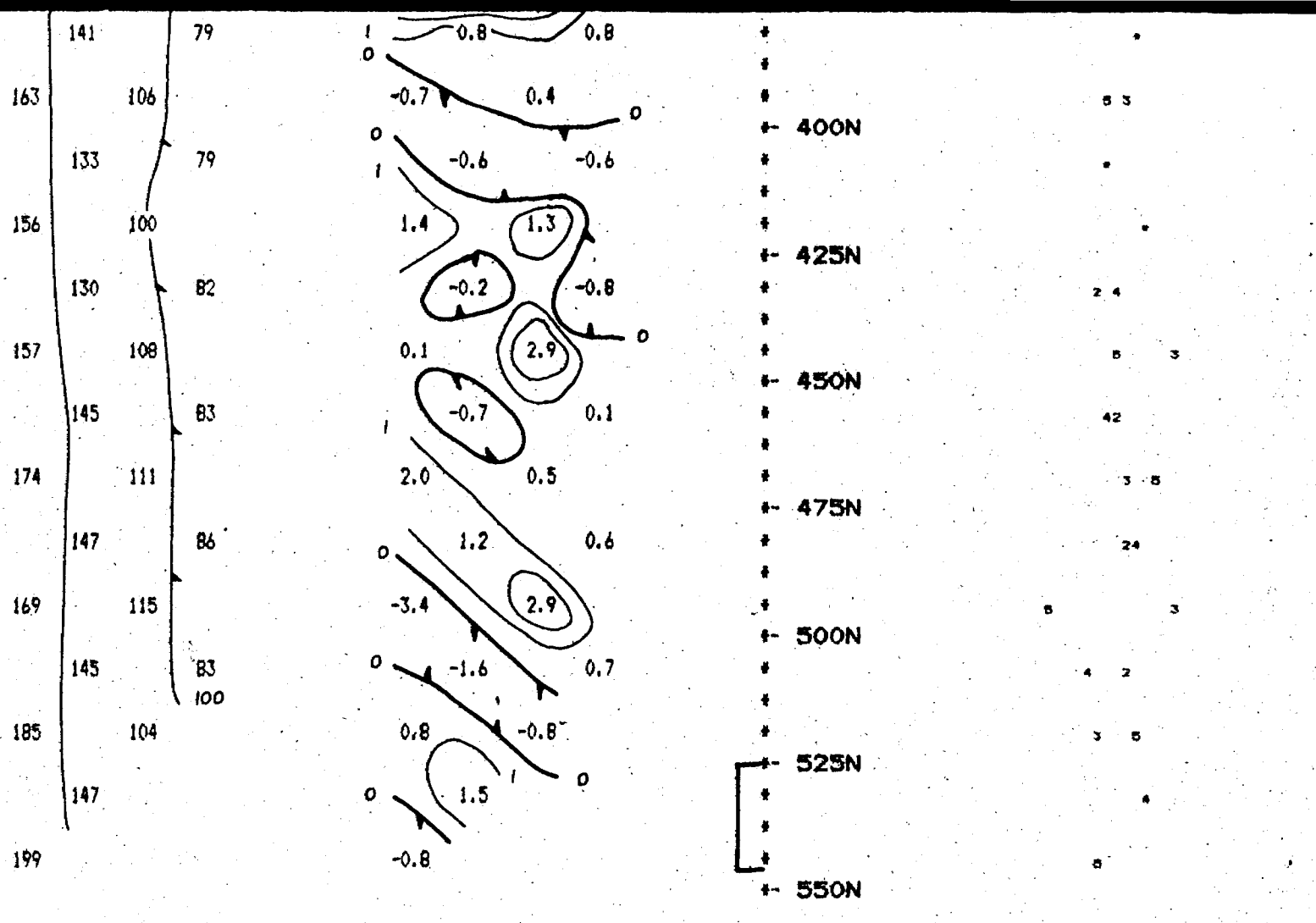
SCALE : 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE





Property : CHIMP GRID

Client : TARZAN GOLD INC.

Date of Survey : 30/3/88

Operator : TAA

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

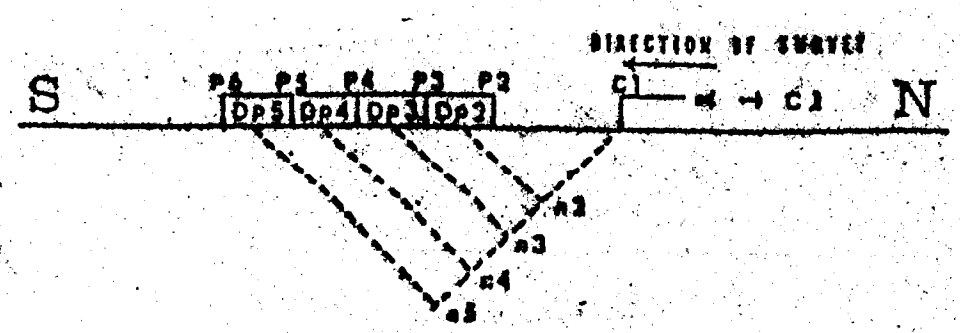
Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Chargeability Window Plotted : #7

Delay Time : 450 ms

Integration Time : 900 ms



****

R. S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 2 to 5

'a' Spacing = 25 M

LINE 8 W

SCALE : 1:1250

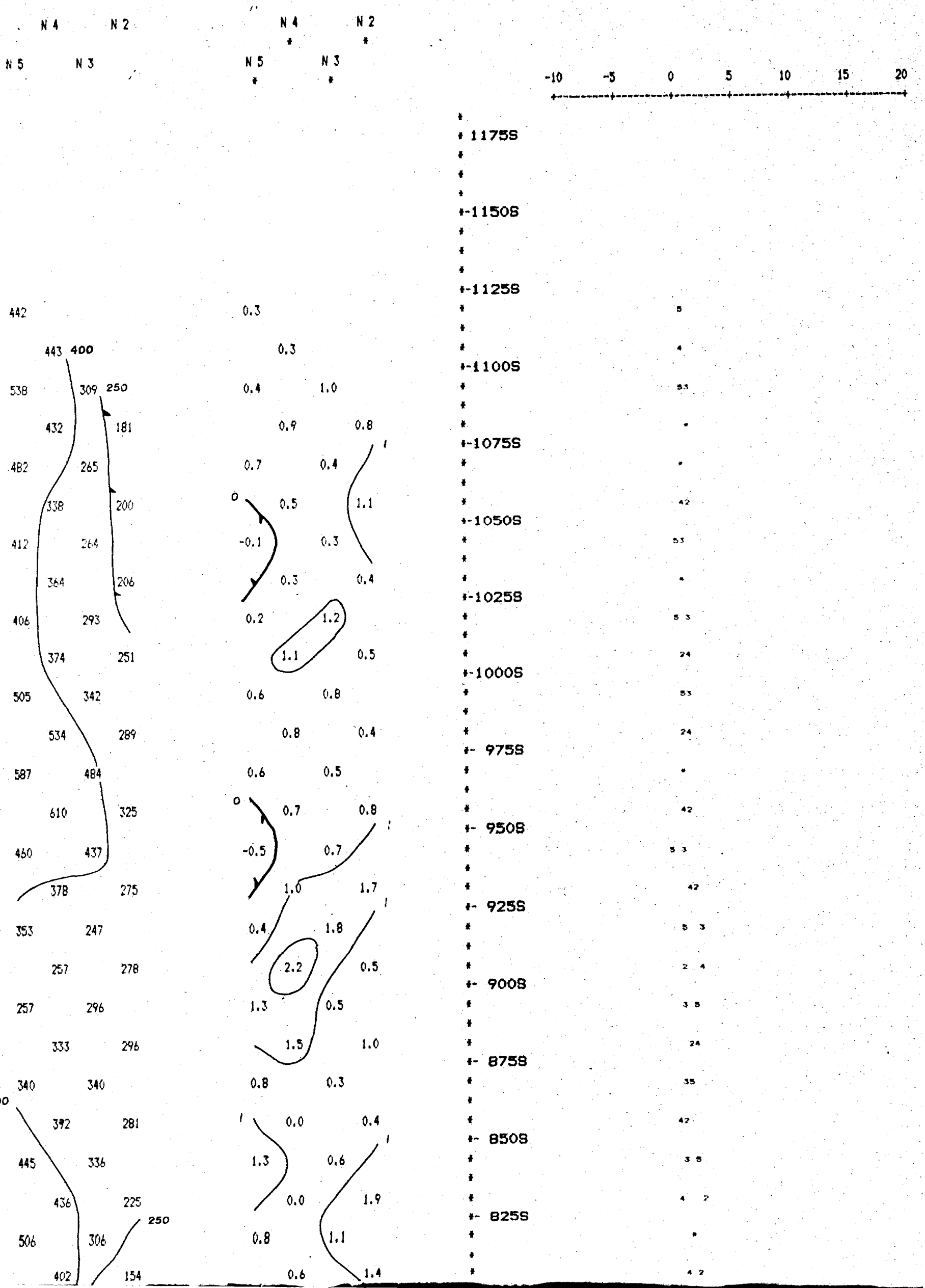
RESISTIVITY

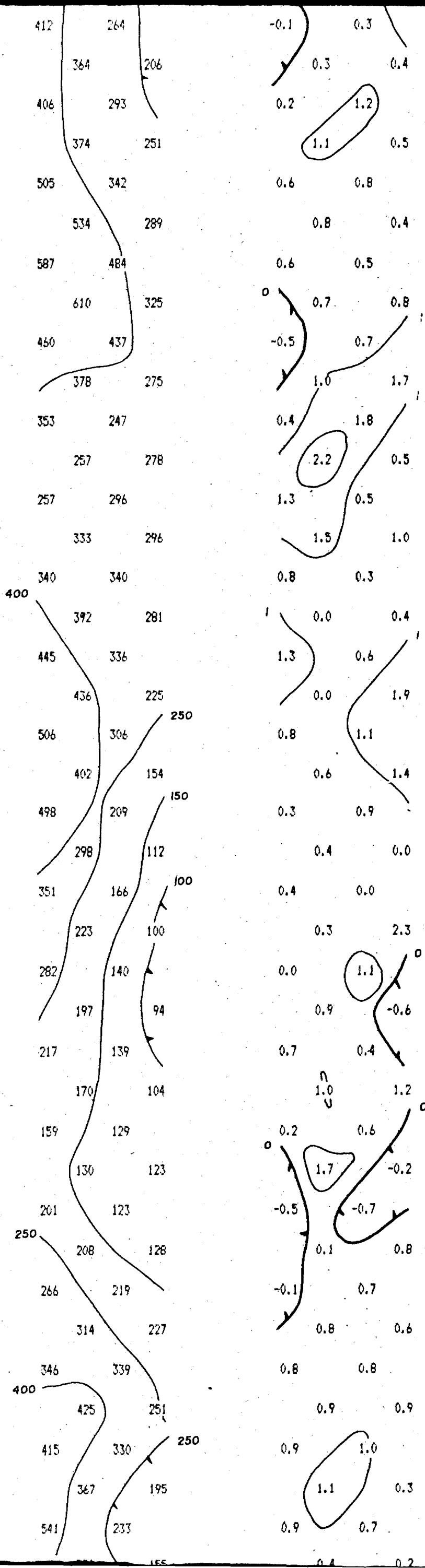
(ohm - metres)

CHARGEABILITY

(milliseconds)

CHARGEABILITY PROFILE

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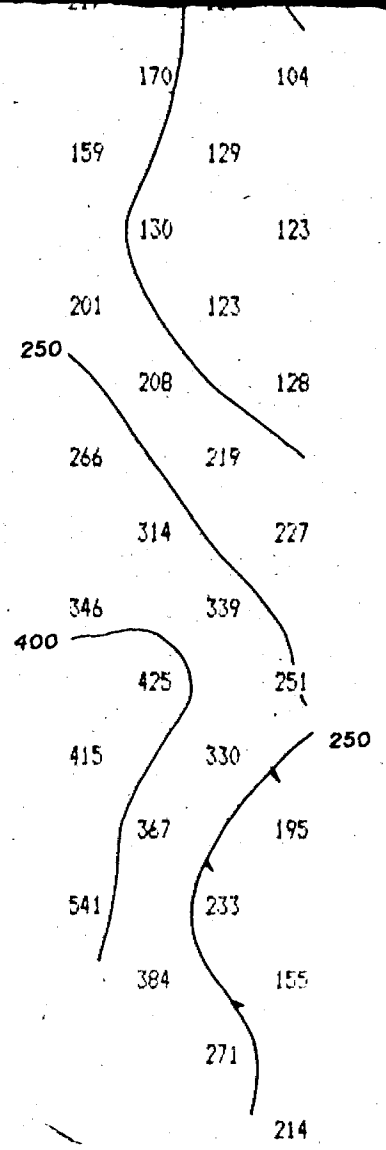
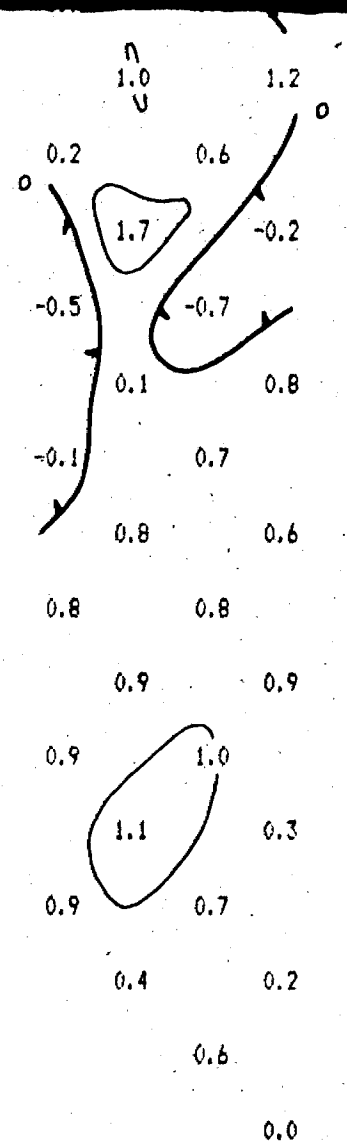
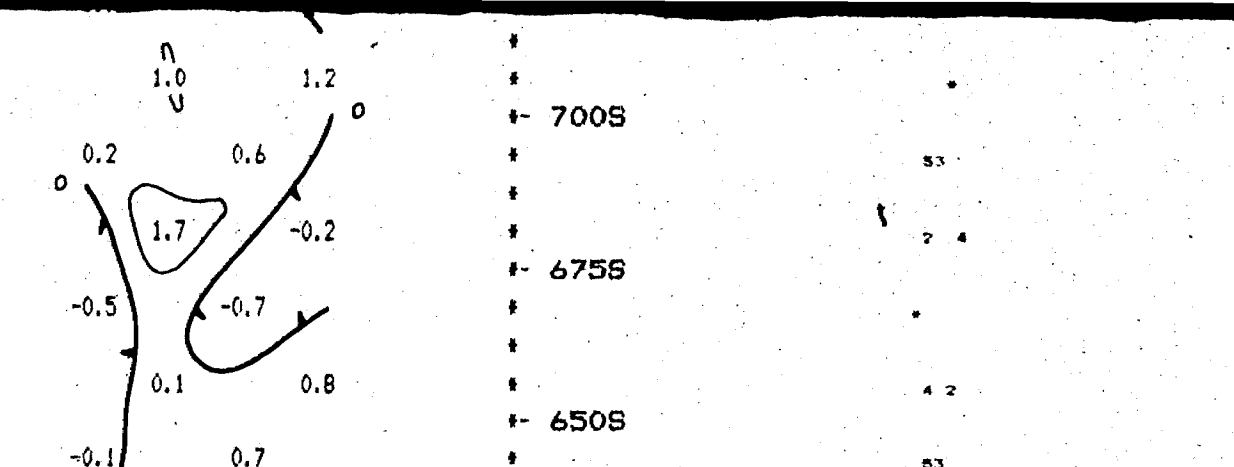
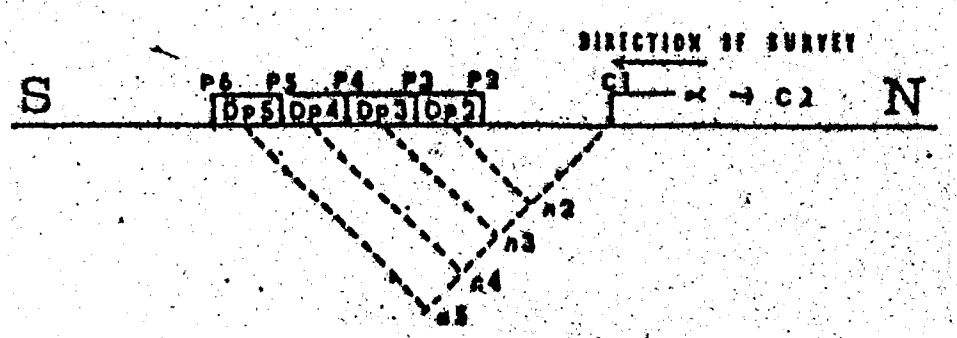






Property : CHIMP GRID
Client : TARZAN GOLD INC.

Date of Survey : 25/3/88
Operator : TAA
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Chargeability Window Plotted : #7
Delay Time : 450 ms
Integration Time : 900 ms



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R. S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 2 to 5

'a' Spacing = 25 M

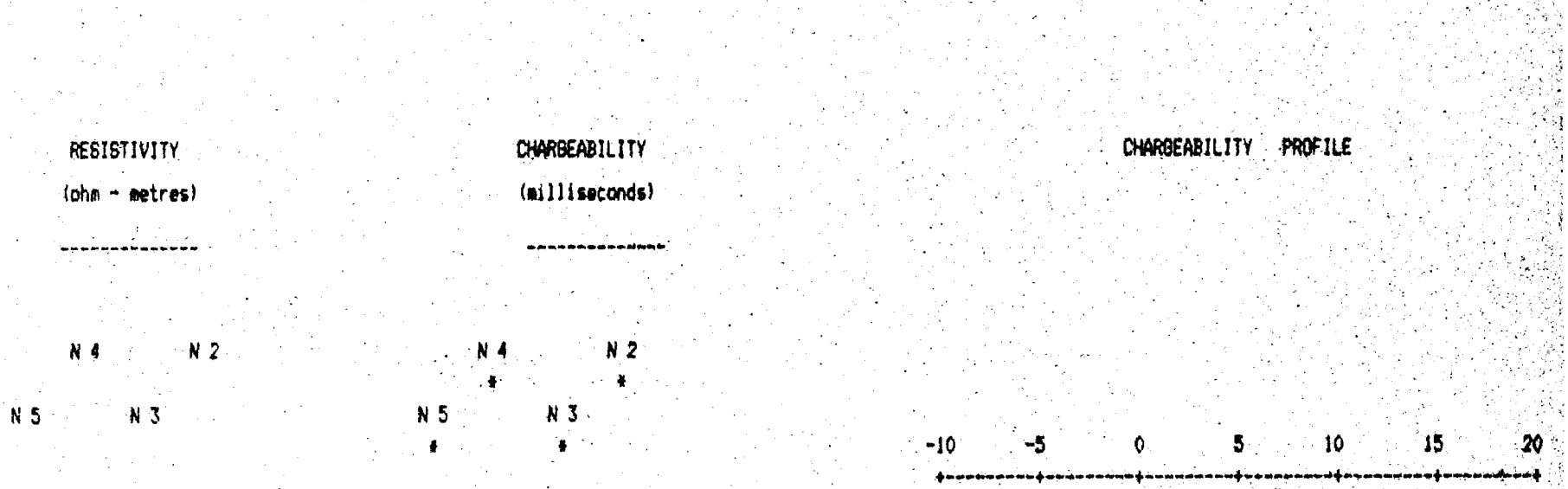
LINE 11 W

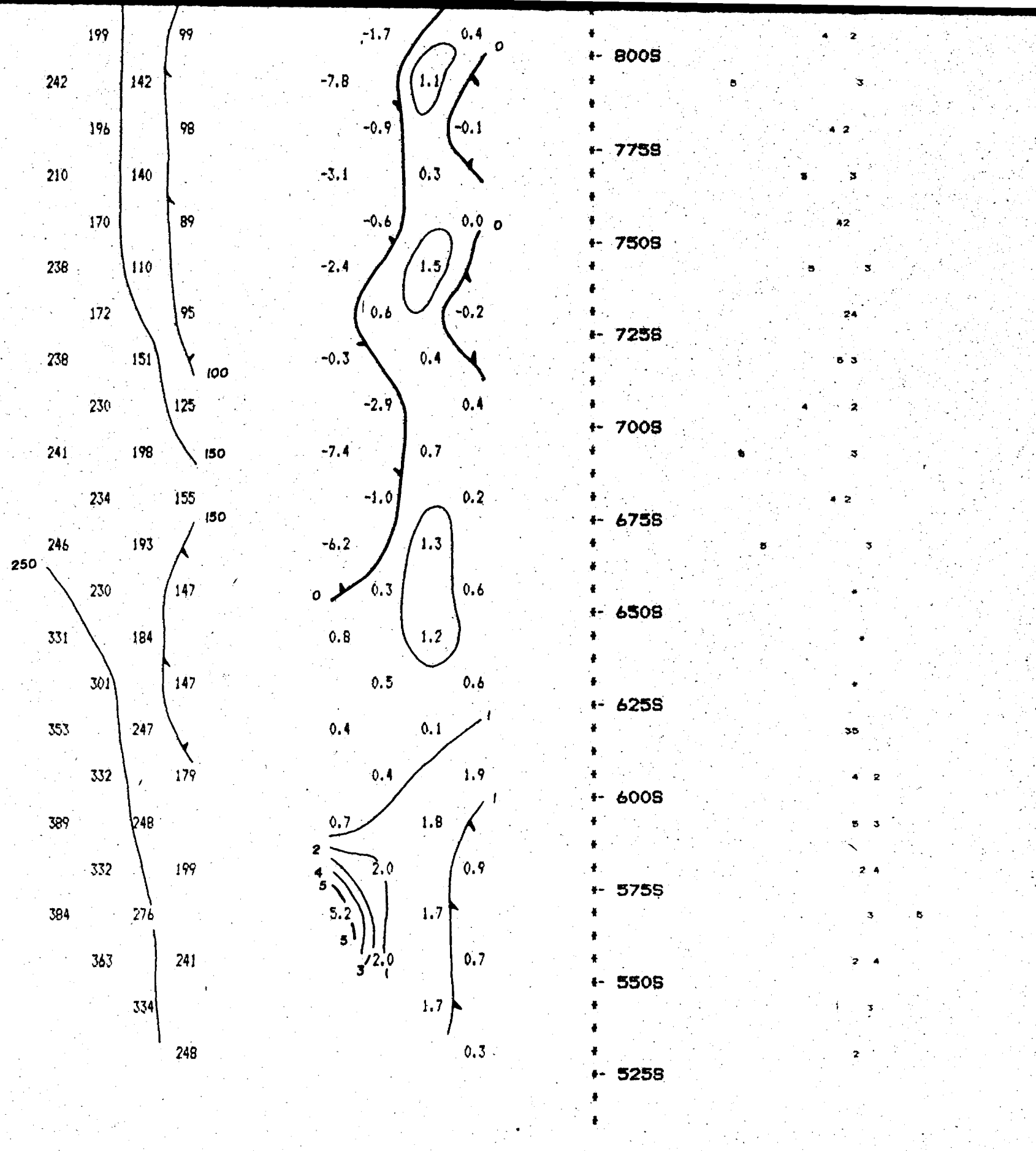
SCALE : 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE





Property : CHIMP GRID

Client : TARZAN GOLD INC.

Date of Survey : 25/3/88

Operator : TAA

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

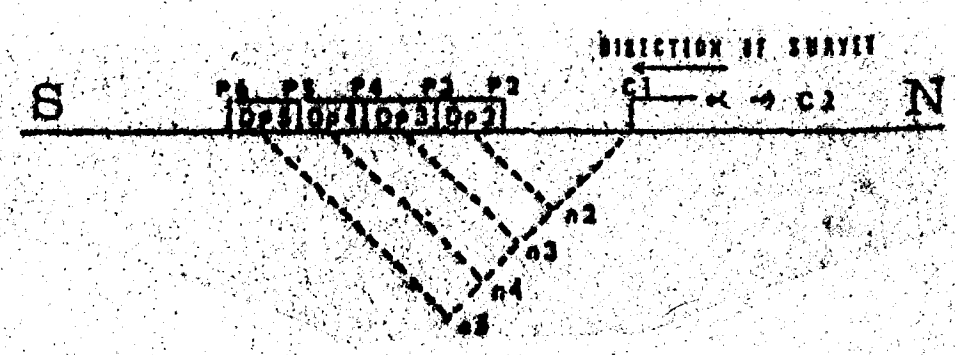
Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Chargeability Window Plotted : #7

Delay Time : 450 ms

Integration Time : 900 ms



****

R. S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 2 to 5

'a' Spacing = 25 M

LINE 13 W

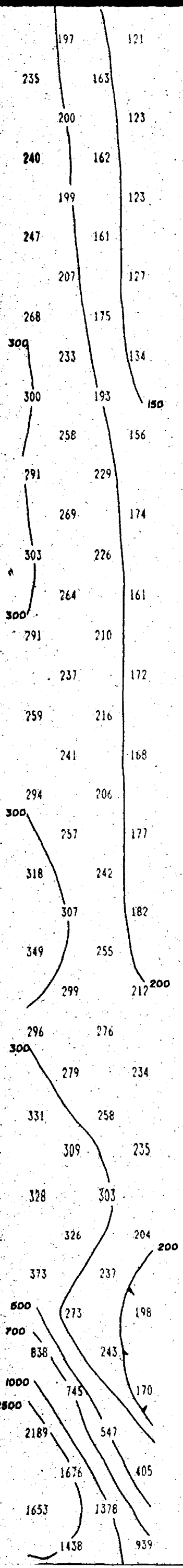
SCALE = 1:1250

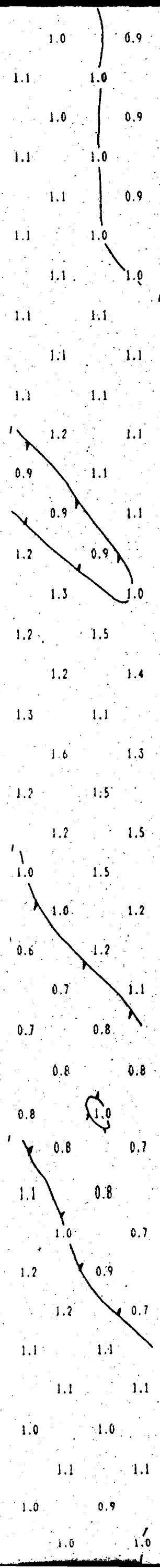
RESISTIVITY
(ohm - metres)

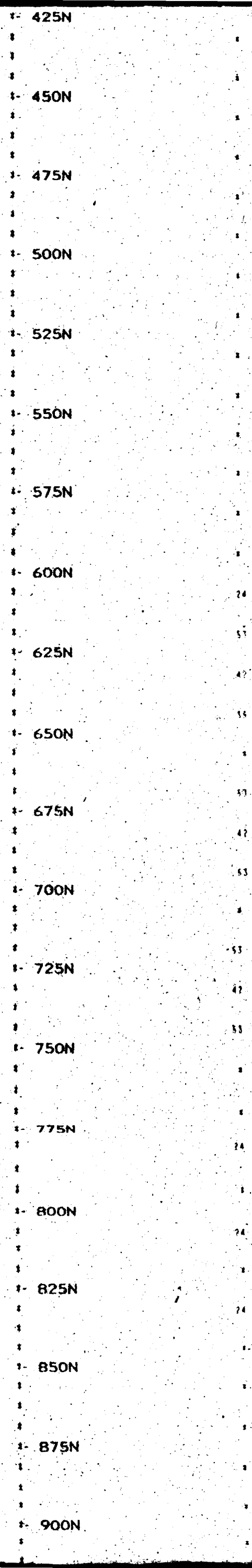
CHARGEABILITY
(milliseconds)

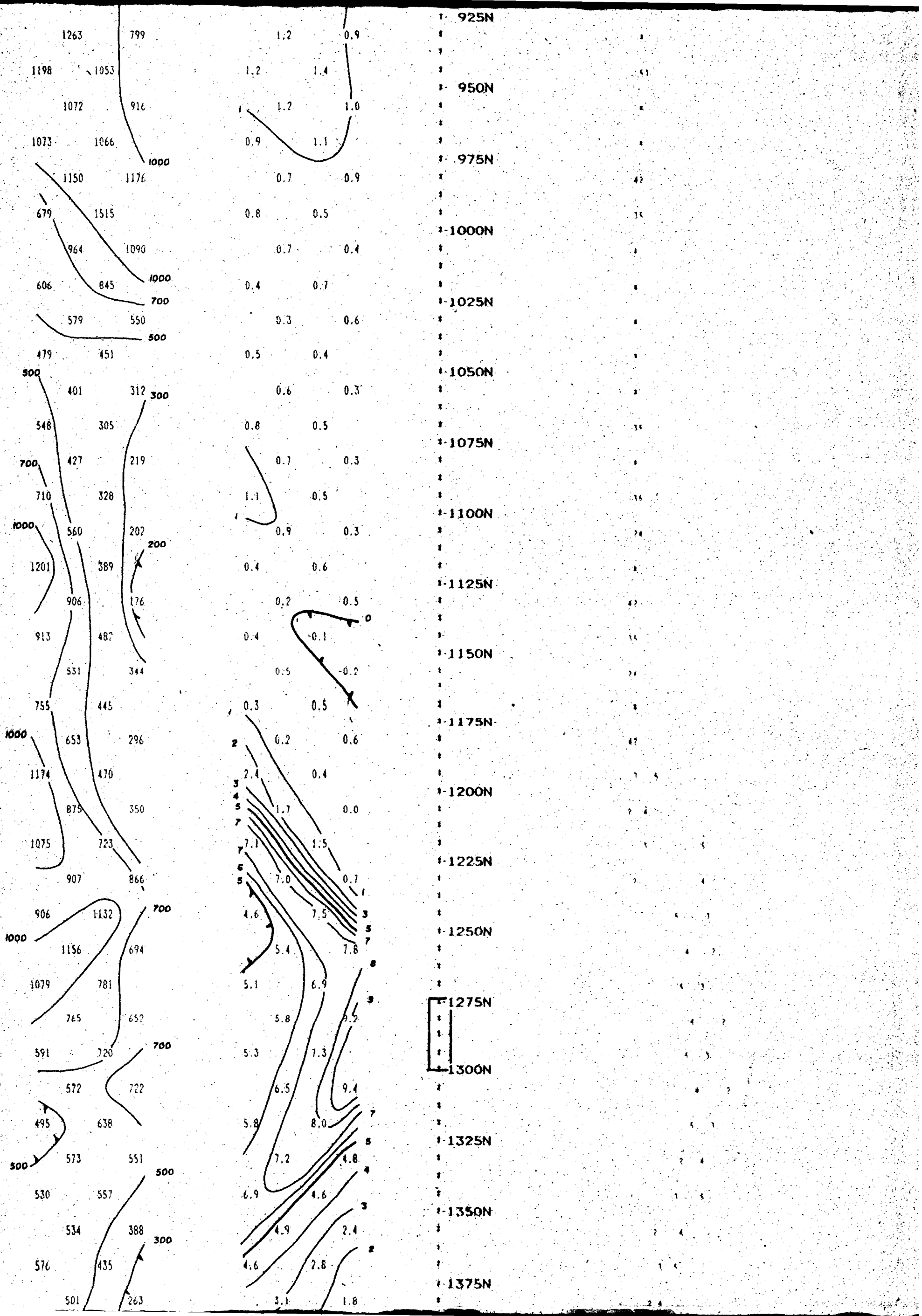
CHARGEABILITY PROFILE

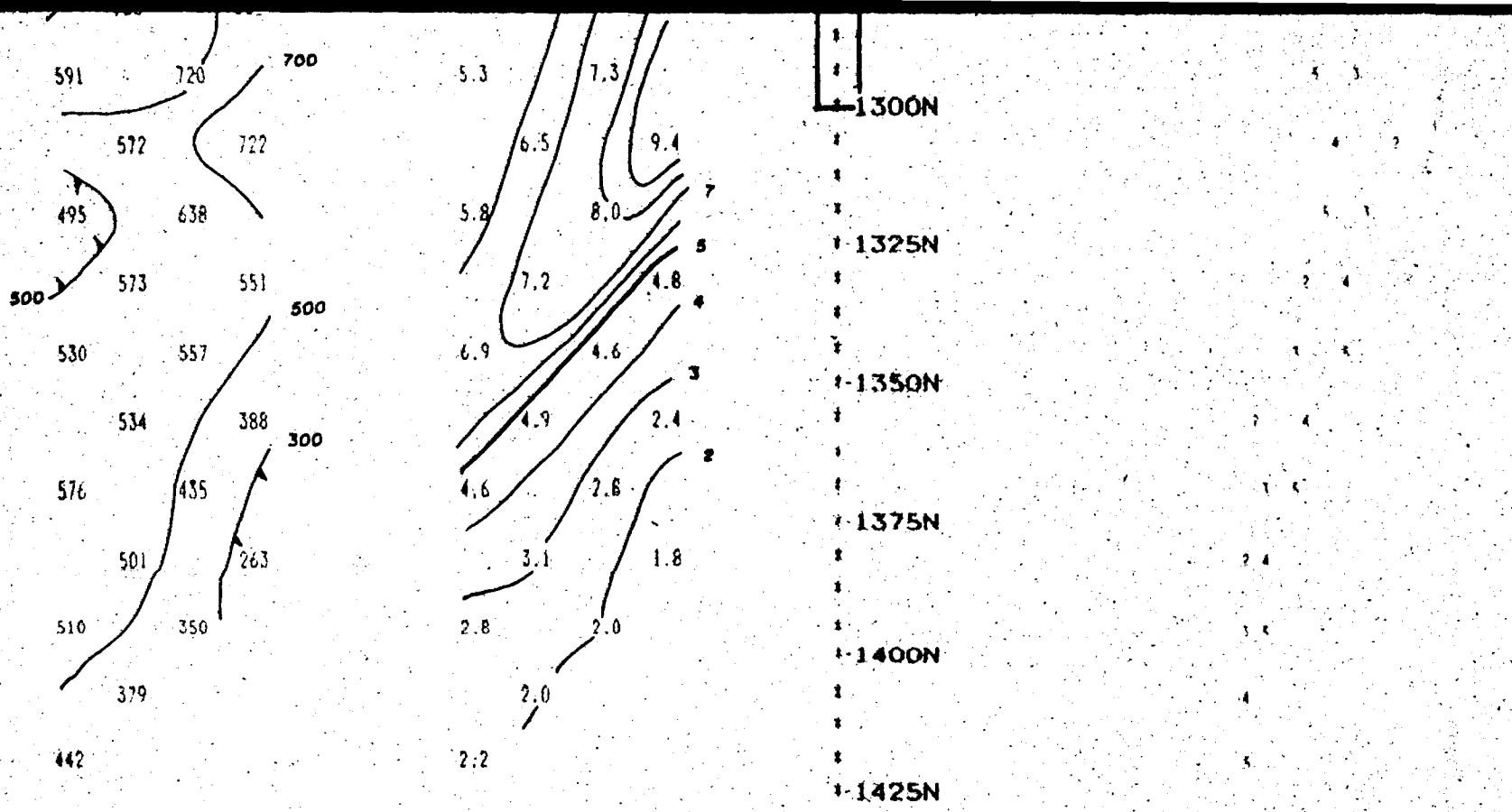
N 4	N 5	N 3	N 2	N 4	N 5	N 3	N 2	-10 -5 0 5 10 15 20	
			185				0.4		
		200							
		300	293			0.4			
							150		
		396	136		0.6		0.5		50N
472									
		209			0.5	0.4			
		262	143		0.4		0.4		75N
314		203			0.6	0.4			
		257	129		0.6		0.2		100N
327		185			0.9	0.6			
		246	123		0.9		0.5		125N
326		183			0.9	0.8			
		253	110		0.7		0.7		150N
321		169			1.0	0.7			
		226	110		0.9		0.6		175N
287		164			0.8	0.8			
									200N
		220	108		0.8		0.7		
288		162			0.9	0.8			
									225N
		224	108		0.9		0.6		
259		168			1.1	0.8			
									250N
		204	116		1.1		0.7		
245		156			1.1	1.0			
									275N
		196	107		1.0		0.8		
227		149			1.0	0.9			
									300N
		180	110		1.0		0.8		
226		145			1.0	0.9			
									325N
		187	103		1.0		0.9		
235		143			1.0	1.0			
									350N
		186	106		1.0		0.8		
225		150			0.8	1.0			
									375N
		187	108		0.8		0.9		
244		143			1.1	0.9			
									400N
		192	108		1.0		0.7		
240		155			1.3	1.0			


197
121
235
163
200
123
240
162
199
123
247
161
207
127
268
175
300
233
134
300
193
150
258
156
291
229
269
174
303
226
264
161
300
291
210
237
172
259
216
241
168
294
206
300
257
177
318
242
307
182
349
255
299
212
200
296
276
300
279
234
331
258
309
235
328
303
326
204
200
373
237
600
273
198
700
838
243
745
170
1000
2500
2189
547
1676
405
1653
1378
1438
939


1.0
0.9
1.1
1.0
1.0
0.9
1.1
1.0
1.1
0.9
1.1
1.0
1.1
1.0
1.1
1.1
1.1
1.1
1.2
1.1
0.9
1.1
0.9
1.1
1.2
0.9
1.1
1.2
1.5
1.2
1.4
1.3
1.1
1.6
1.3
1.2
1.5
1.2
1.5
1.0
1.5
1.0
1.2
0.6
1.2
0.7
1.1
0.7
0.8
0.8
0.8
0.8
1.0
0.8
0.7
1.1
0.8
1.0
0.7
1.2
0.9
1.2
0.7
1.1
1.1
1.1
1.1
1.0
1.0
1.1
1.1
1.0
0.9
1.0
1.0


425N
450N
475N
500N
525N
550N
575N
600N
625N
650N
675N
700N
725N
750N
775N
800N
825N
850N
875N
900N


925N
950N
975N
1000N
1025N
1050N
1075N
1100N
1125N
1150N
1175N
1200N
1225N
1250N
1275N
1300N
1350N
1375N
1263
799
1198
1053
1072
916
1073
1066
1000
1150
1176
679
1515
964
1090
1000
606
845
700
579
550
500
479
451
500
401
312
300
548
305
700
427
219
710
328
1000
560
202
200
1201
389
906
176
913
487
531
344
755
445
1000
653
296
1174
470
875
350
1075
723
907
866
906
1132
700
1000
1156
694
1079
781
765
652
591
720
700
572
722
495
638
500
573
551
530
557
500
534
388
300
576
435
501
263
1.2
0.9
1.2
1.4
1.2
1.0
0.9
1.1
0.7
0.9
0.8
0.5
0.7
0.4
0.4
0.7
0.3
0.6
0.5
0.4
0.6
0.3
0.8
0.5
0.7
0.3
1.1
0.5
0.9
0.3
0.4
0.6
0.2
0.5
0
0.4
-0.1
0.5
-0.2
0.3
0.5
2
0.2
0.6
2.4
0.4
3
4
5
1.7
0.0
7
7.1
1.5
7
6
5
7.0
0.7
1
4.6
7.5
3
5
7
5.4
7.8
8
5.1
6.9
9
5.8
9.2
5.3
7.3
6.5
9.4
5.8
8.0
7
5
7.2
4.8
4
6.9
4.6
3
4.9
2.4
4.6
2.8
2
3.1
1.8



Property : ST LAURENT TWP

Client : TARZAN GOLD INC.

Date of Survey : 18/4/88

Operator : TAA

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

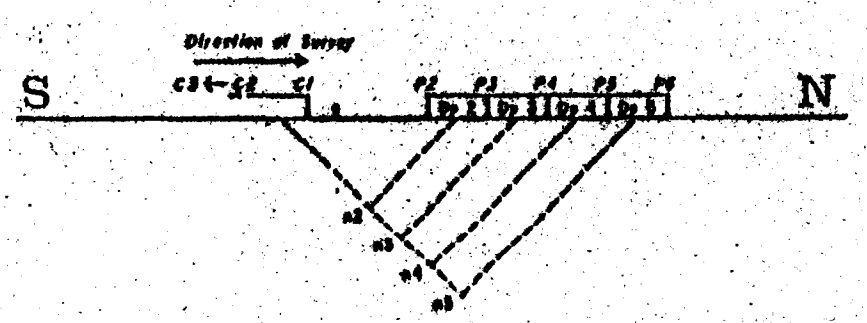
Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Chargeability Window Plotted : #7

Delay Time : 450 ms

Integration Time : 900 ms



****

R. S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 2 to 5

'a' Spacing = 25 M

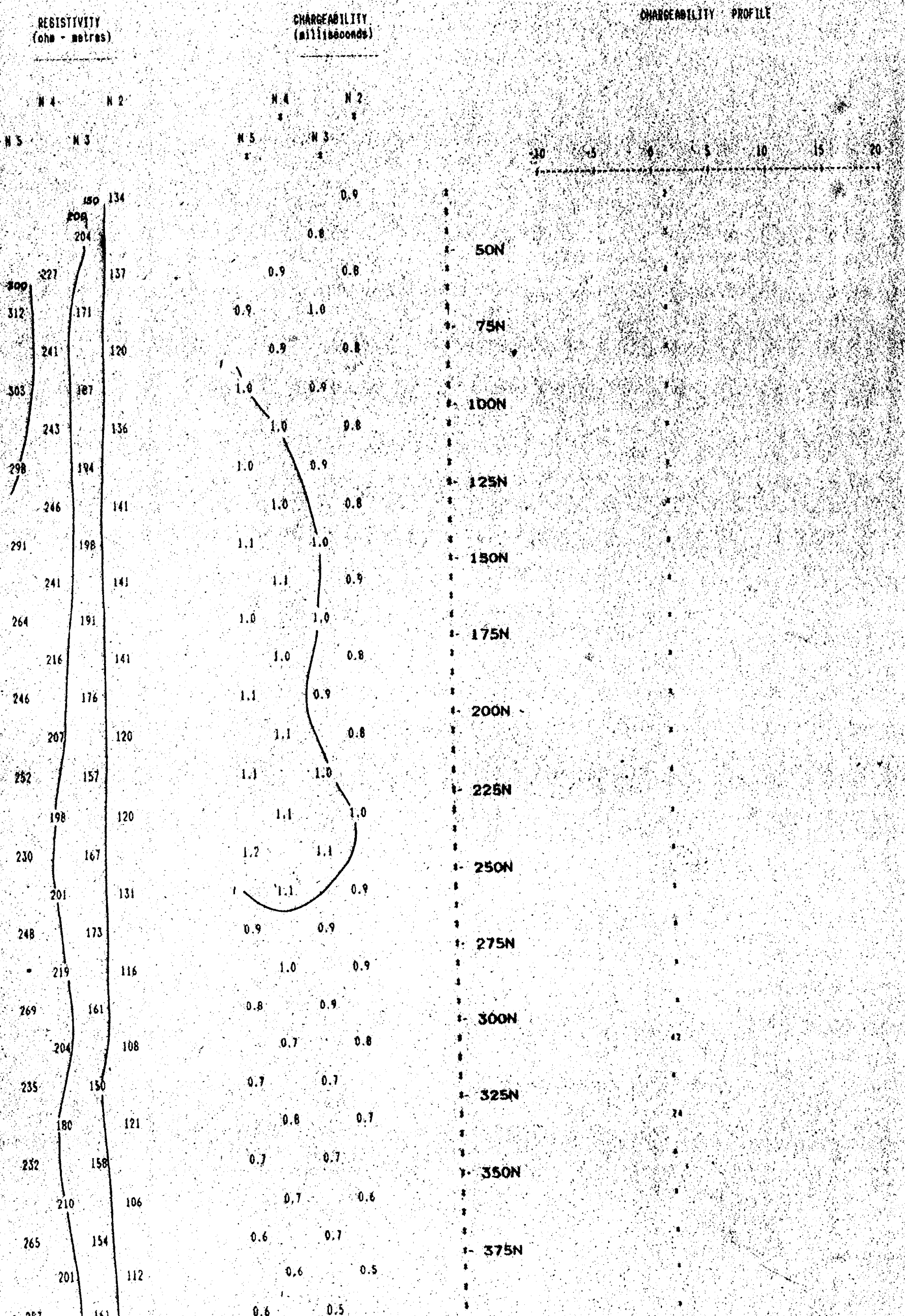
LINE 15 W

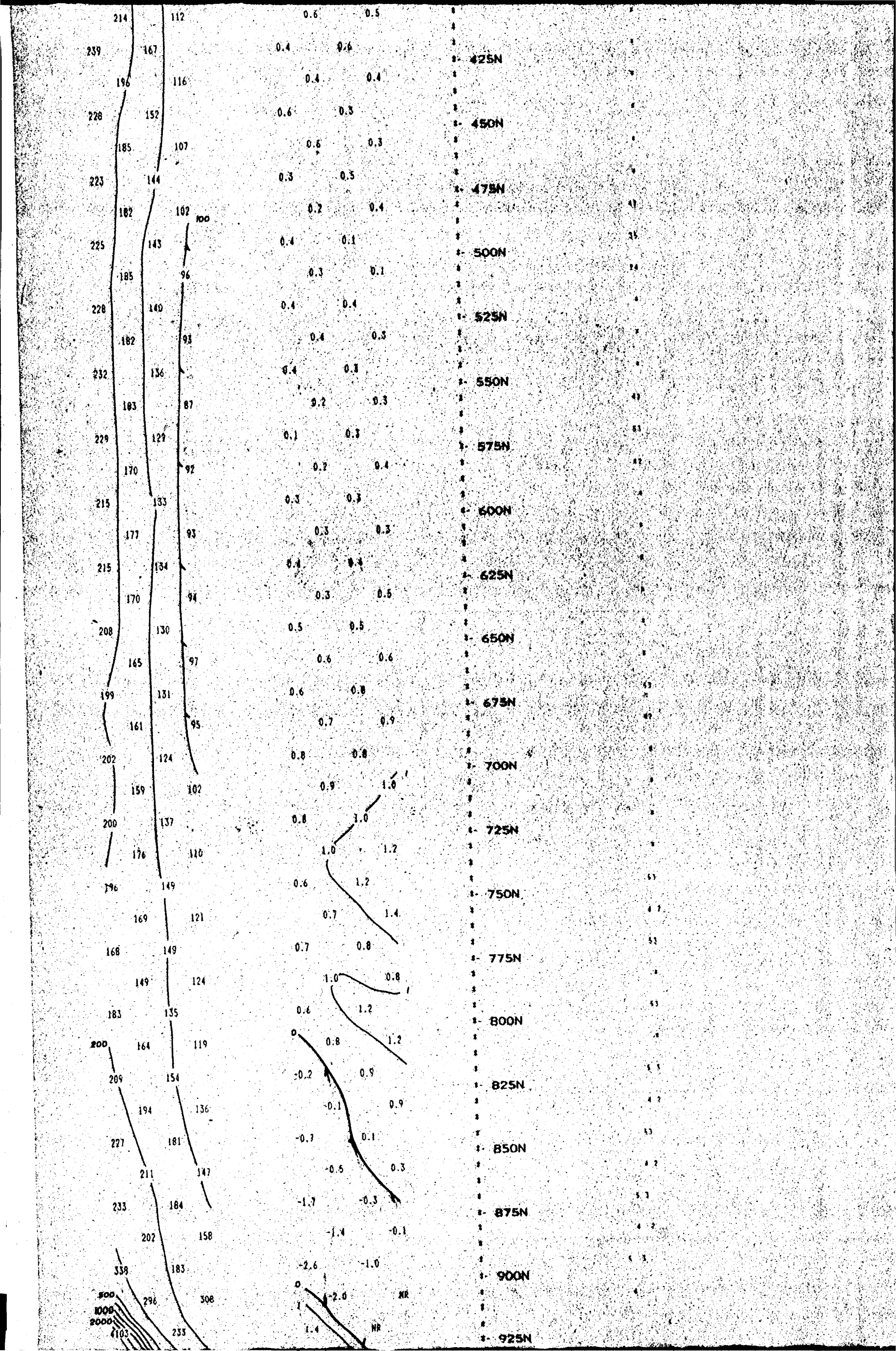
SCALE : 1:1250

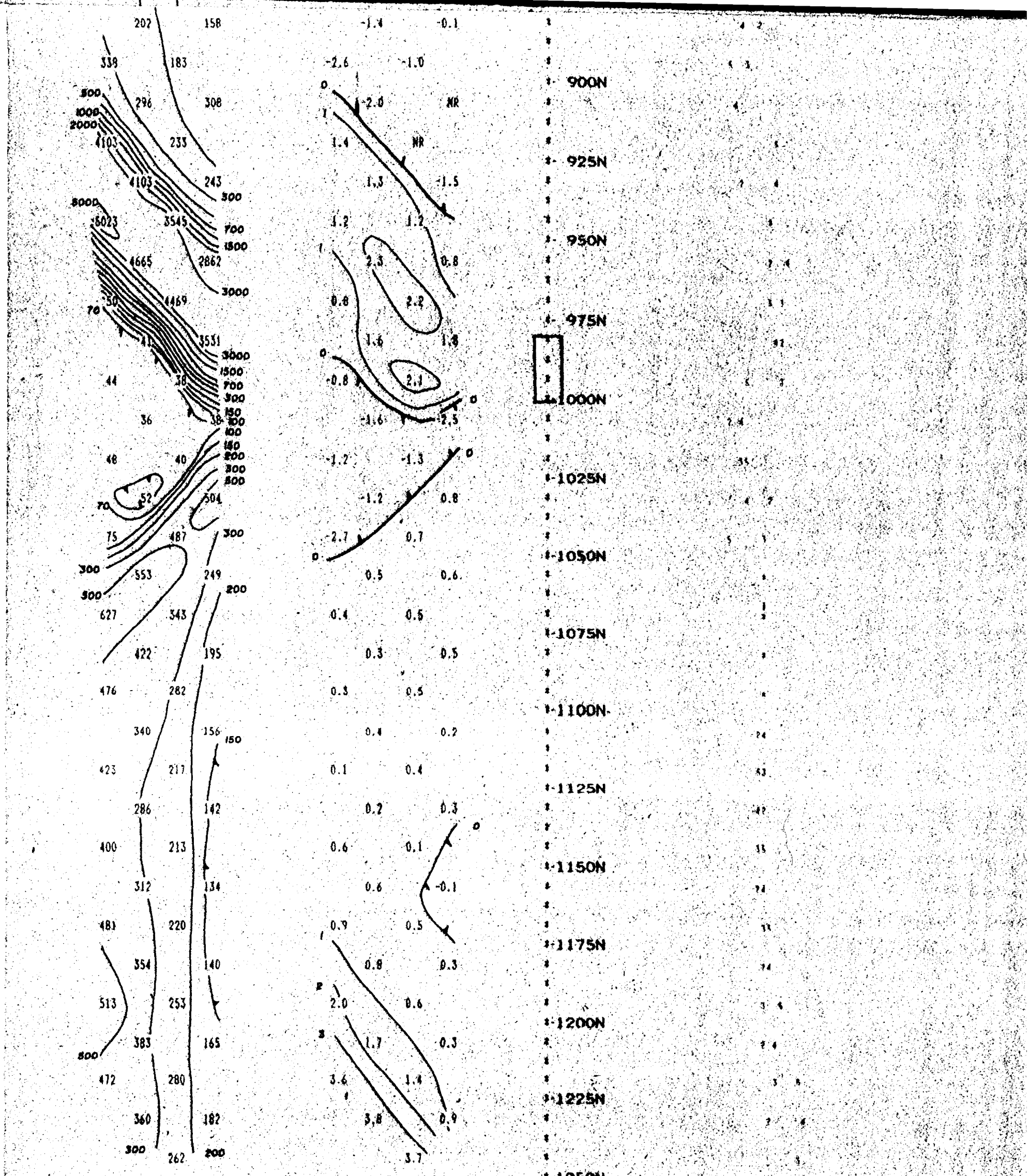
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE




425N
450N
475N
500N
525N
550N
575N
600N
625N
650N
675N
700N
725N
750N
775N
800N
825N
850N
875N
900N
925N
100
500
1000
2000



Property : ST LAURENT TWP

Client : TARZAN GOLD INC.

Date of Survey : 19/4/88

Operator : TAA

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

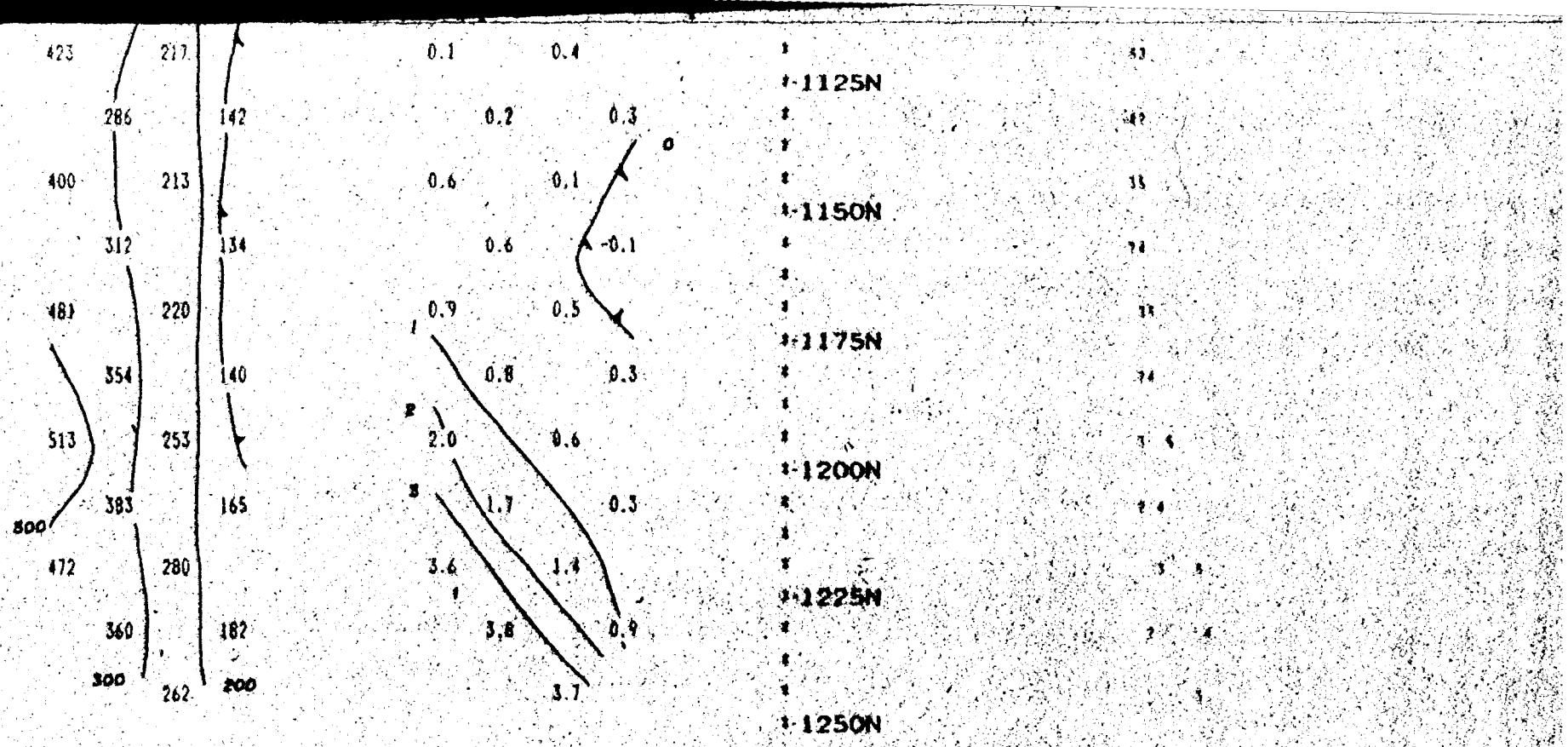
Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Chargeability Window Plotted : #7

Delay Time : 450 ms

Integration Time : 900 ms



Property : ST LAURENT TWP

Client : TARZAN GOLD INC.

Date of Survey : 19/4/88

Operator : TAA

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

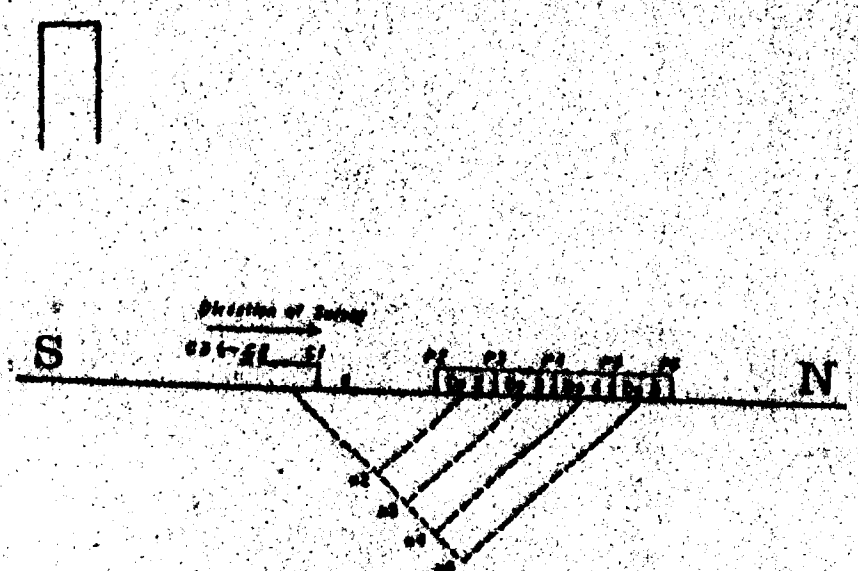
Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Chargeability Window Plotted : #7

Delay Time : 450 ms

Integration Time : 900 ms



****

R. S. MIDDLETON EXPLORATION

SERVICES INC.

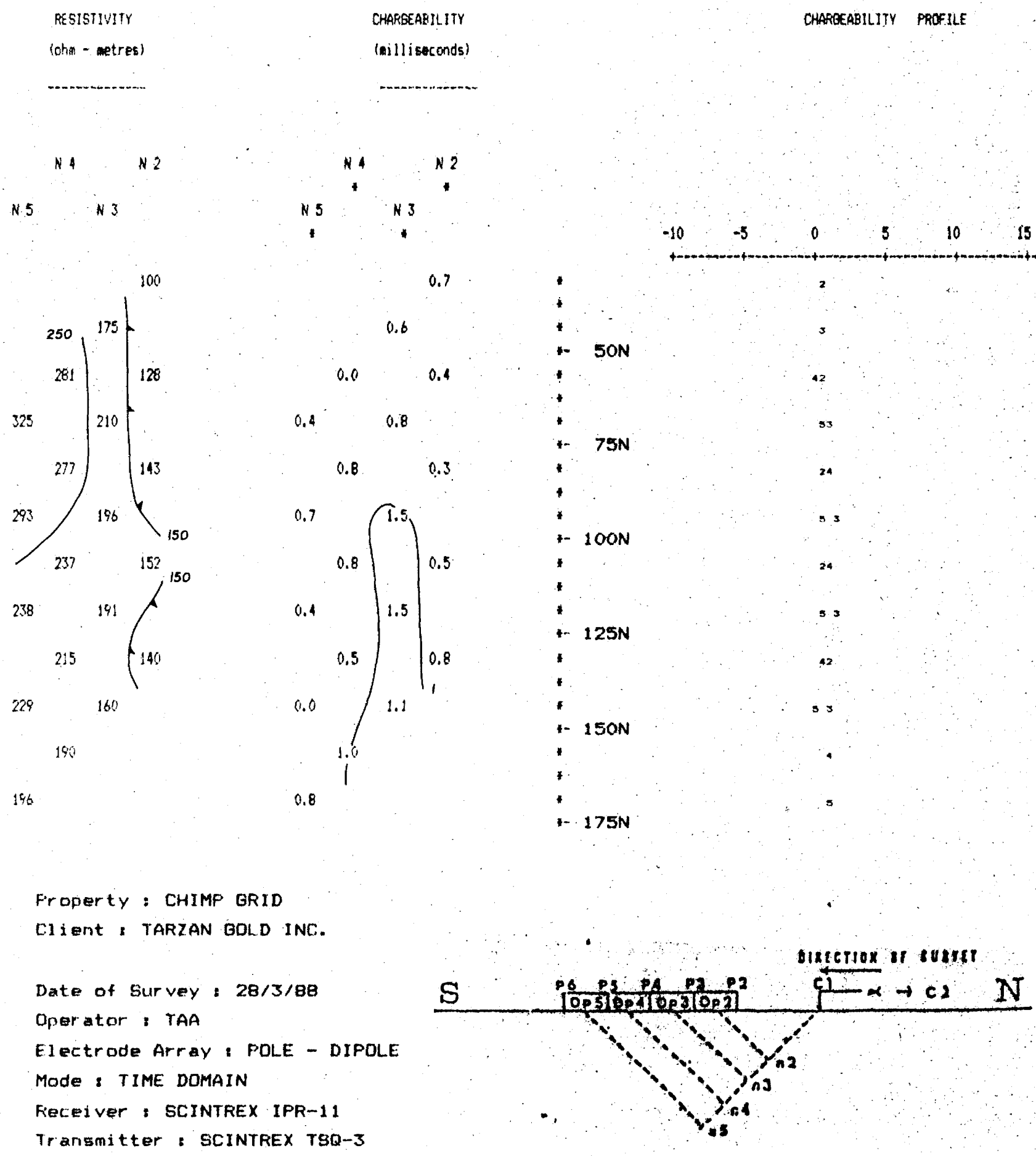
****

IP Pseudosections for N = 2 to 5

'a' Spacing = 25 M

LINE 17 W

SCALE = 1:1250



Property : CHIMP GRID
Client : TARZAN GOLD INC.

Date of Survey : 28/3/88
Operator : TAA
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Chargeability Window Plotted : #7
Delay Time : 450 ms
Integration Time : 900 ms

****

R. S. MIDDLETON EXPLORATION
SERVICES INC.

****

IP Pseudosections for N = 2 to 5

'a' Spacing = 25 M

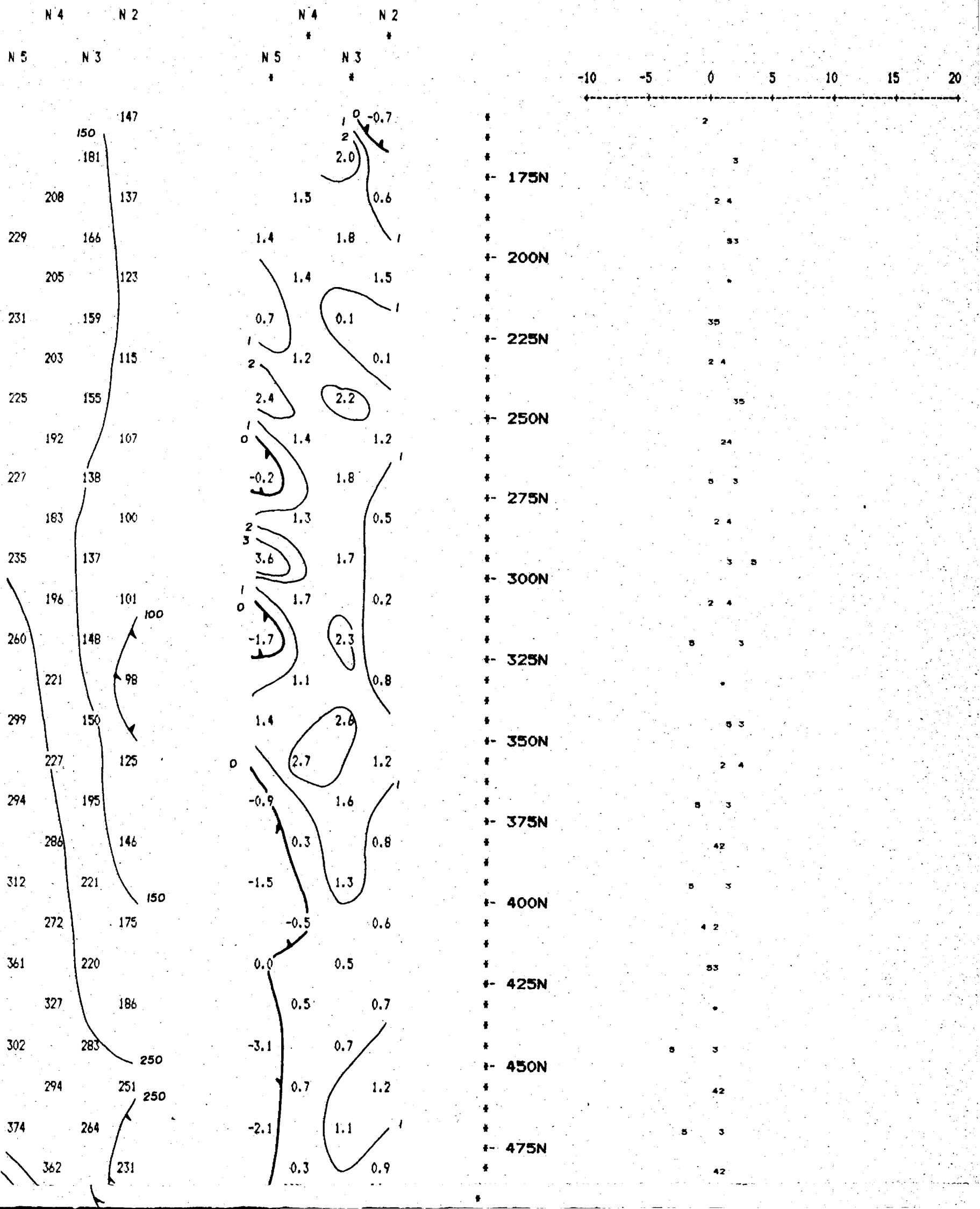
LINE 19 W

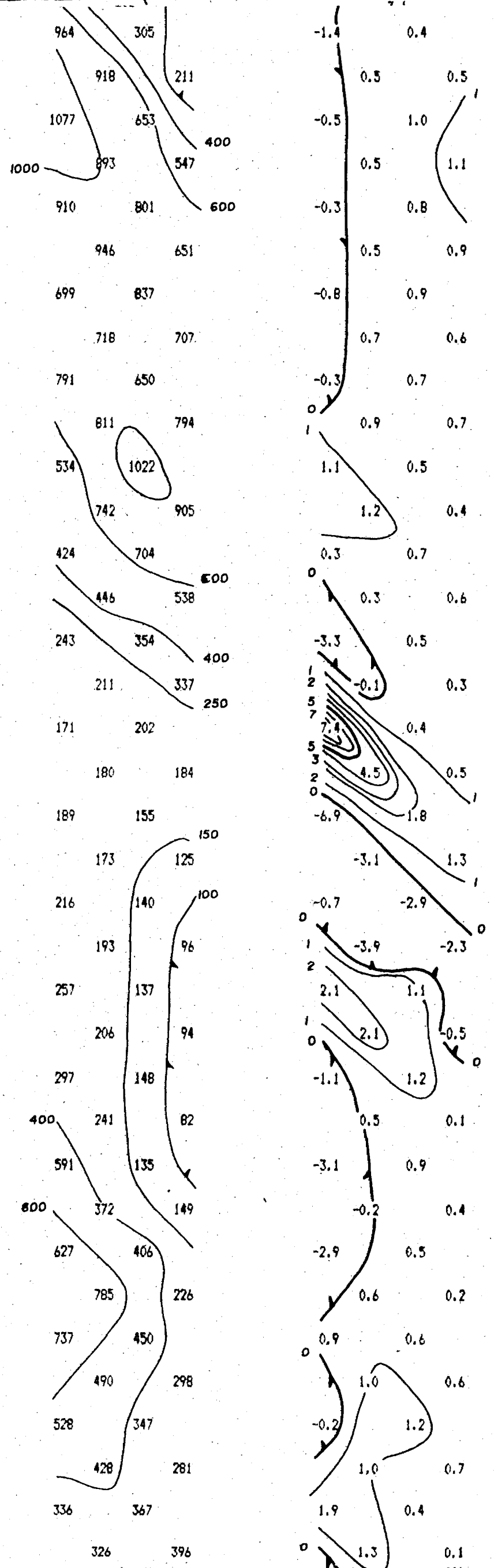
SCALE : 1:1250

RESISTIVITY
(ohm - metres)

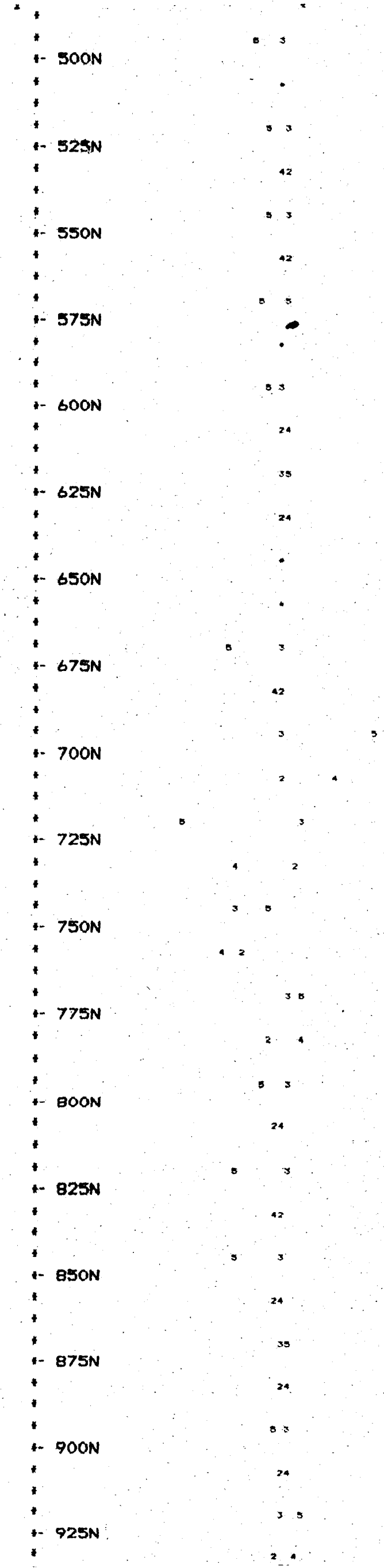
CHARGEABILITY
(milliseconds)

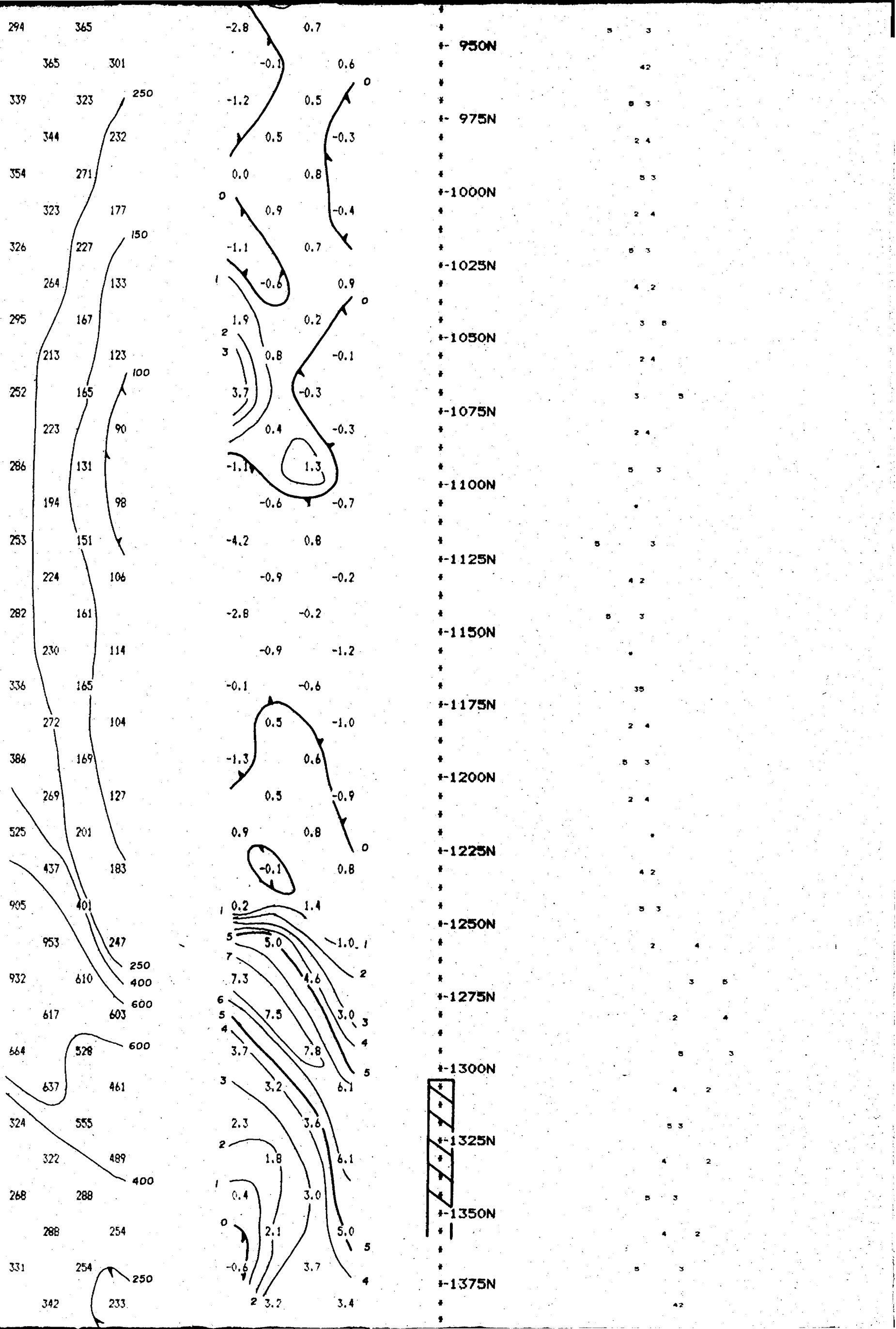
CHARGEABILITY PROFILE

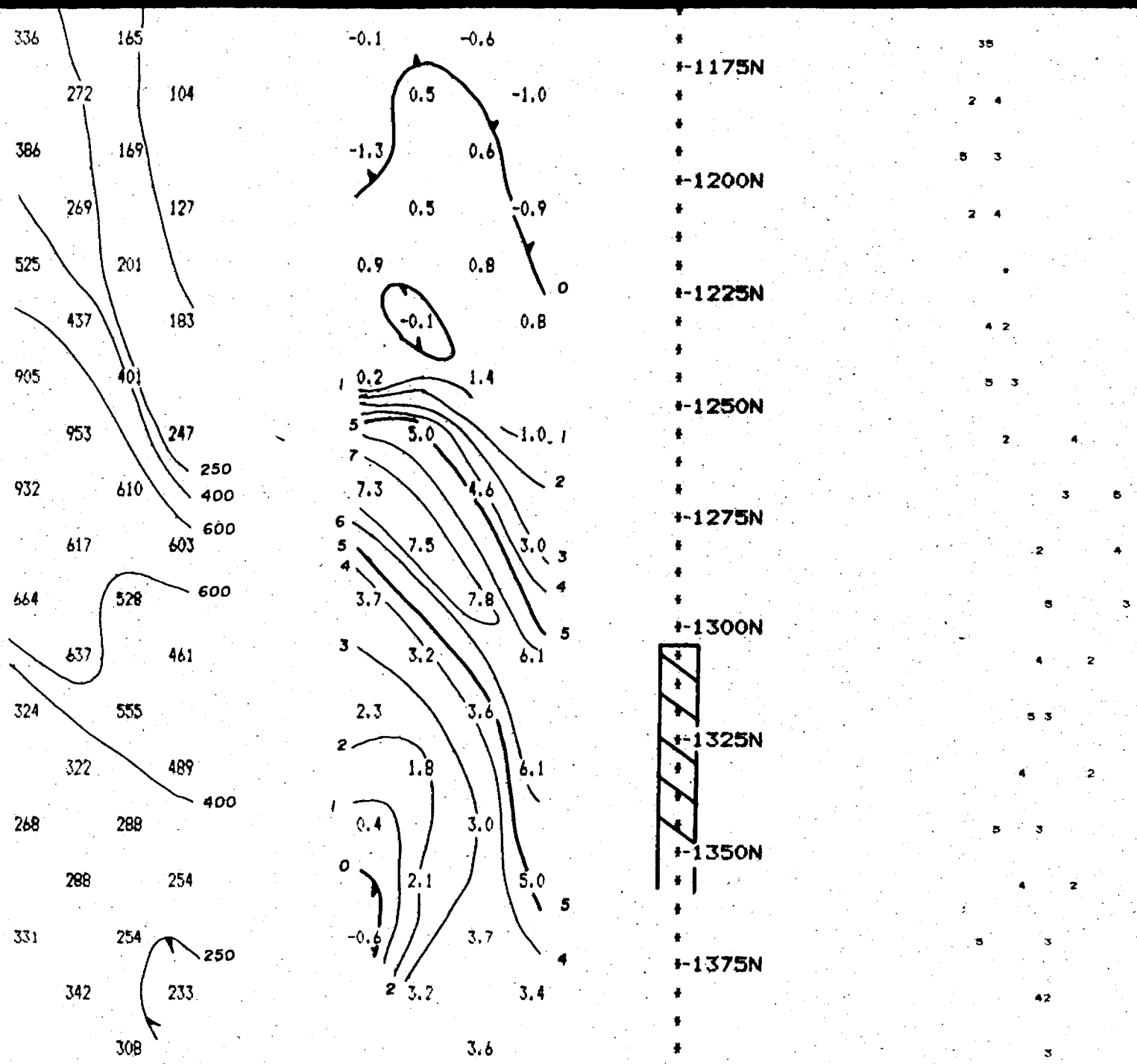



964 305
918 211
1077 653 400
1000 893 547
910 801 600
946 651
699 837
718 707
791 650
811 794
534 1022
742 905
424 704 600
446 538
243 354 400
211 337 250
171 202
180 184
189 155 150
173 125
216 140 100
193 96
257 137
206 94
297 148
400 241 82
591 135
600 372 149
627 406
785 226
737 450
490 298
528 347
428 281
336 367
326 396

-1.4 0.4
0.5 0.5
-0.5 1.0
0.5 1.1
-0.3 0.8
0.5 0.9
-0.8 0.9
0.7 0.6
-0.3 0.7
0 0.9 0.7
1 1.1 0.5
1.2 0.4
0.3 0.7
0 0.3 0.6
-3.3 0.5
1 2 5 7 -0.1 0.3
7.4 0.4
5 3 2 0 4.5 0.5
-6.9 1.8
-3.1 1.3
-0.7 -2.9
0 1 -3.9 -2.3
2 2.1 1.1
1 0 2.1 -0.5
-1.1 1.2
0.5 0.1
-3.1 0.9
-0.2 0.4
-2.9 0.5
0.6 0.2
0.9 0.6
0 1.0 0.6
-0.2 1.2
1.0 0.7
1.9 0.4
0 1.3 0.1

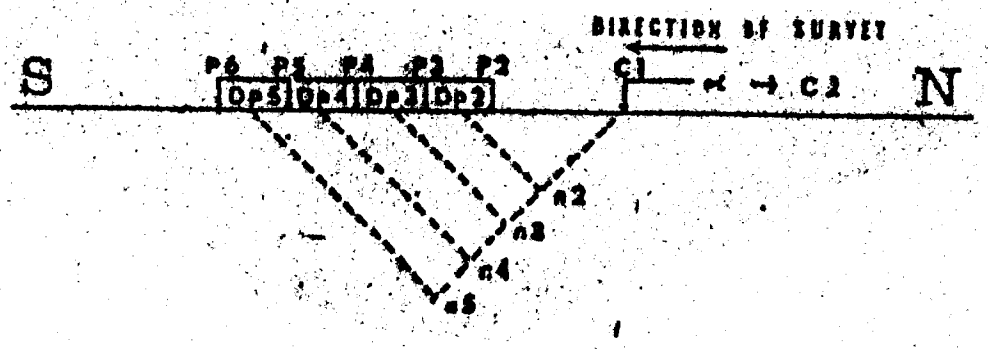

500N
525N
550N
575N
600N
625N
650N
675N
700N
725N
750N
775N
800N
825N
850N
875N
900N
925N


950N
975N
1000N
1025N
1050N
1075N
1100N
1125N
1150N
1175N
1200N
1225N
1250N
1275N
1300N
1325N
1350N
1375N



Property : CHIMP BRID
Client : TARZAN GOLD INC.

Date of Survey : 29/3/88
Operator : TAA
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Chargeability Window Plotted : #7
Delay Time : 450 ms
Integration Time : 900 ms



****

R. S. MIDDLETON EXPLORATION
SERVICES INC.

****

IP Pseudosections for N = 2 to 5

'a' Spacing = 25 M

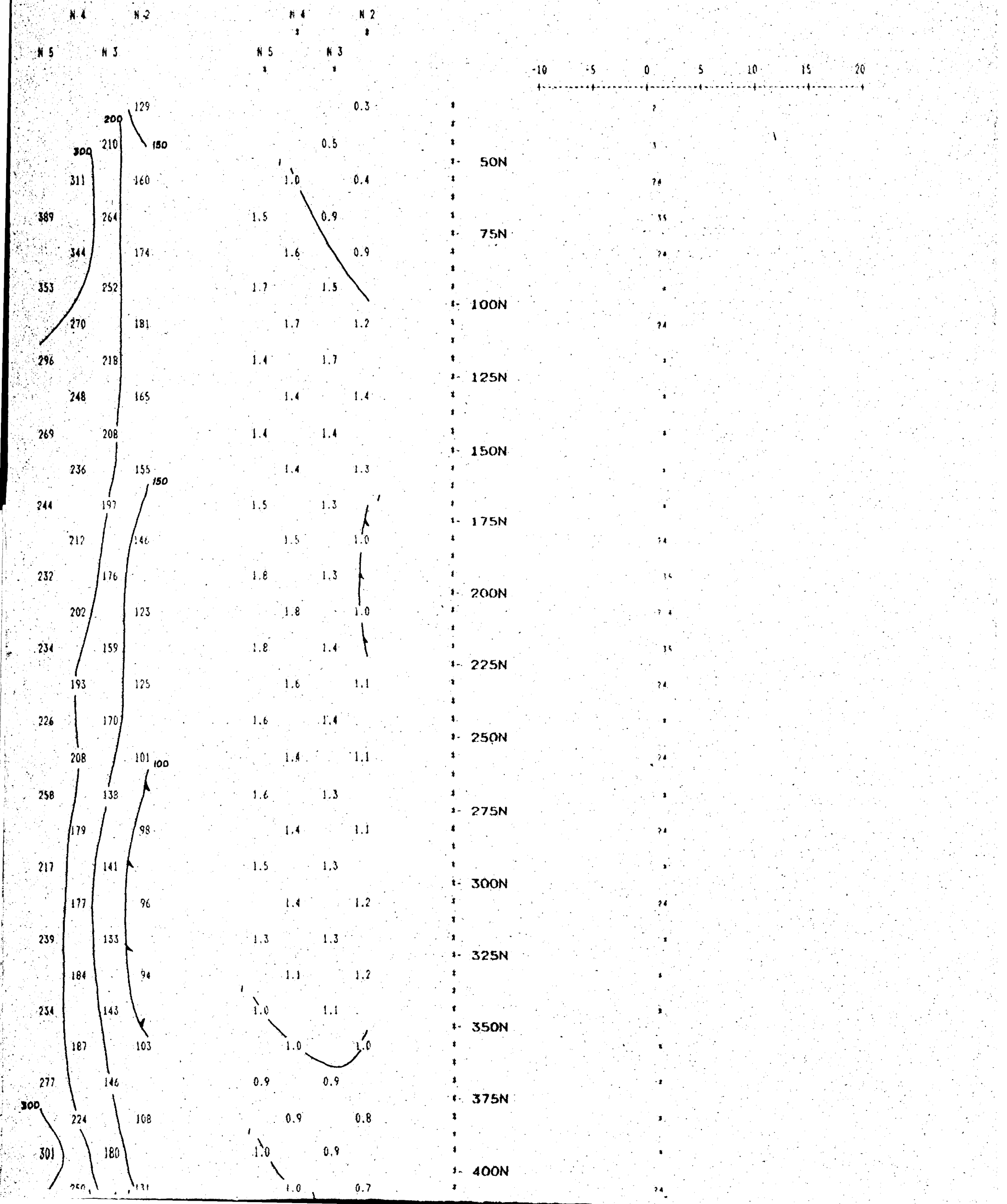
LINE 19 W

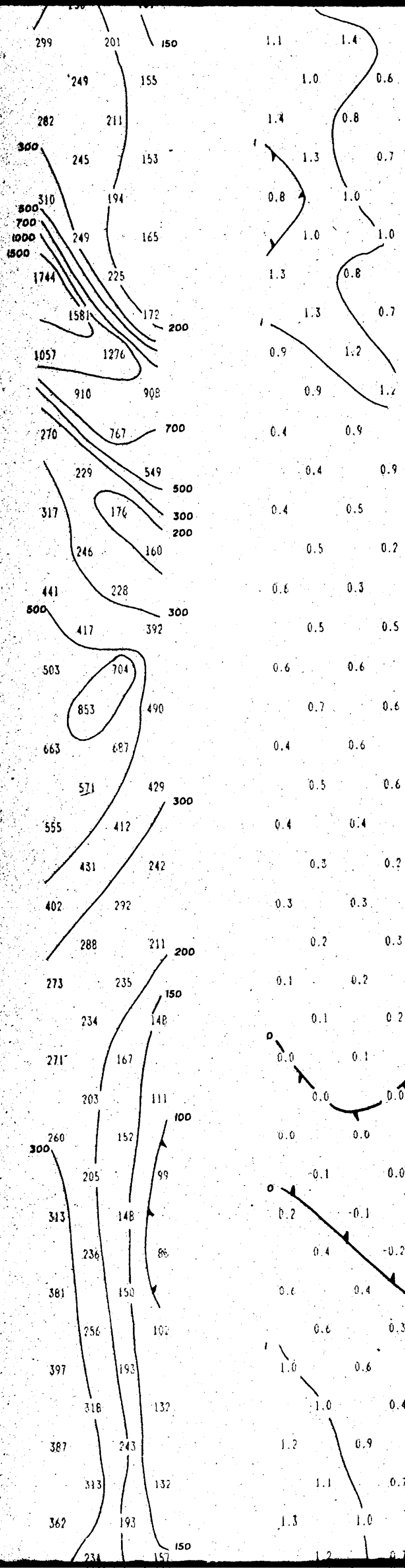
SCALE = 1 : 1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE




425N
450N
475N
500N
525N
550N
575N
600N
625N
650N
675N
700N
725N
750N
775N
800N
825N
850N
875N
900N

925N

950N

975N

1000N

1025N

1050N

1075N

1100N

1125N

1150N

1175N

1200N

1225N

1250N

1275N

1300N

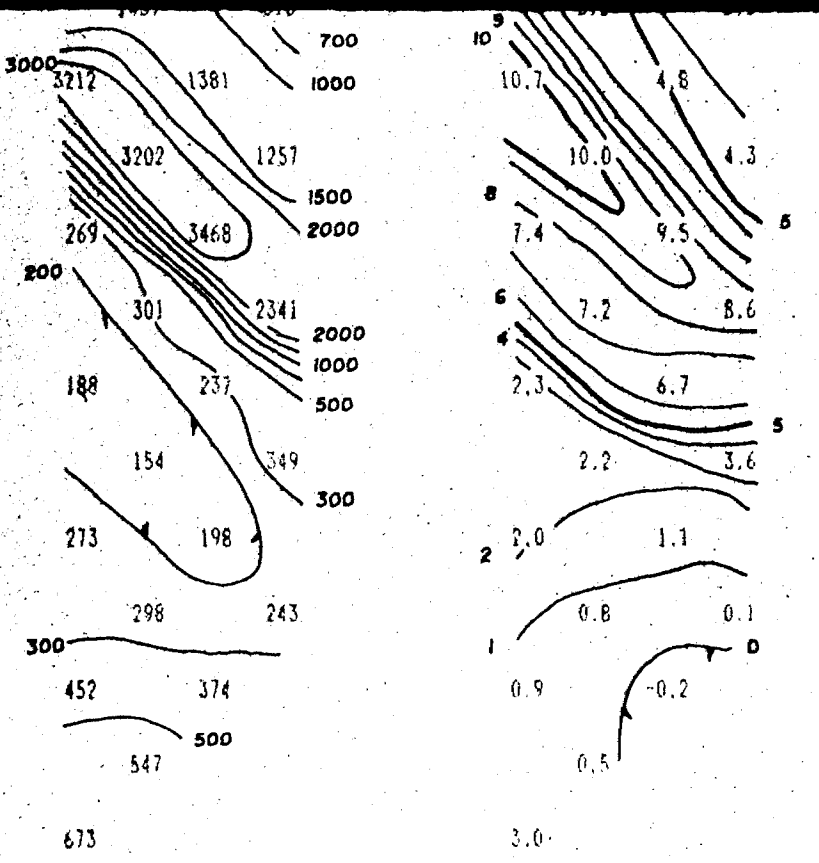
1325N

1350N

1375N

1400N

1425N



1300N

1325N

1350N

1375N

1400N

1425N

Property : ST LAURENT TWP

Client : TARZAN GOLD INC.

Date of Survey : 20/4/88

Operator : TAA

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

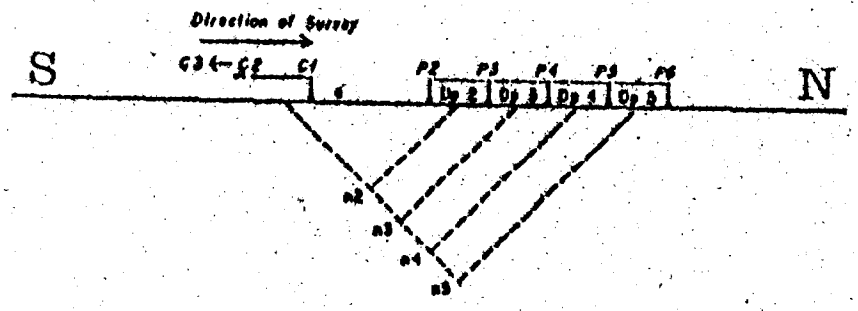
Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Chargeability Window Plotted : #7

Delay Time : 450 ms

Integration Time : 900 ms



****

R. S. MIDDLETON EXPLORATION

SERVICES INC.

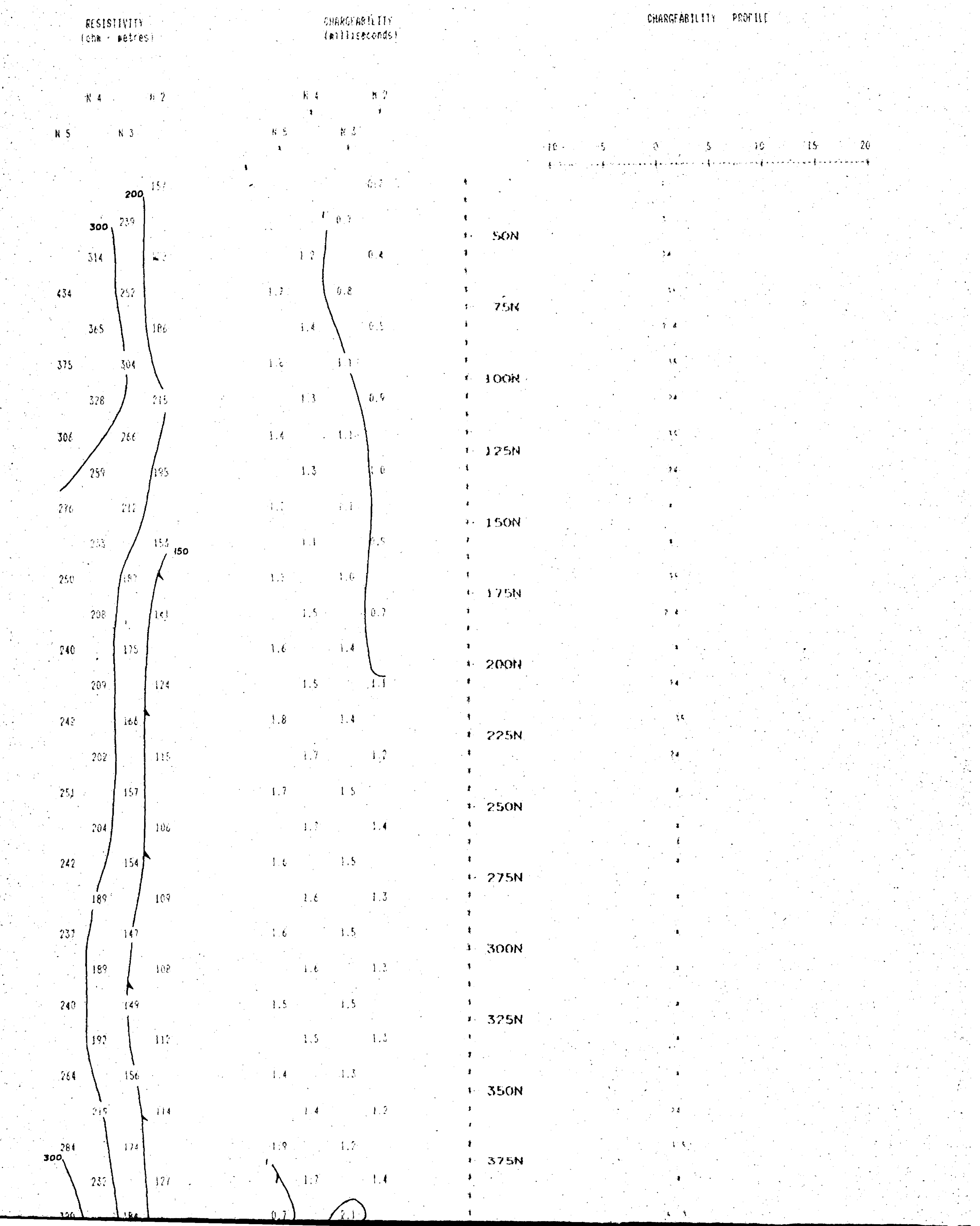
****

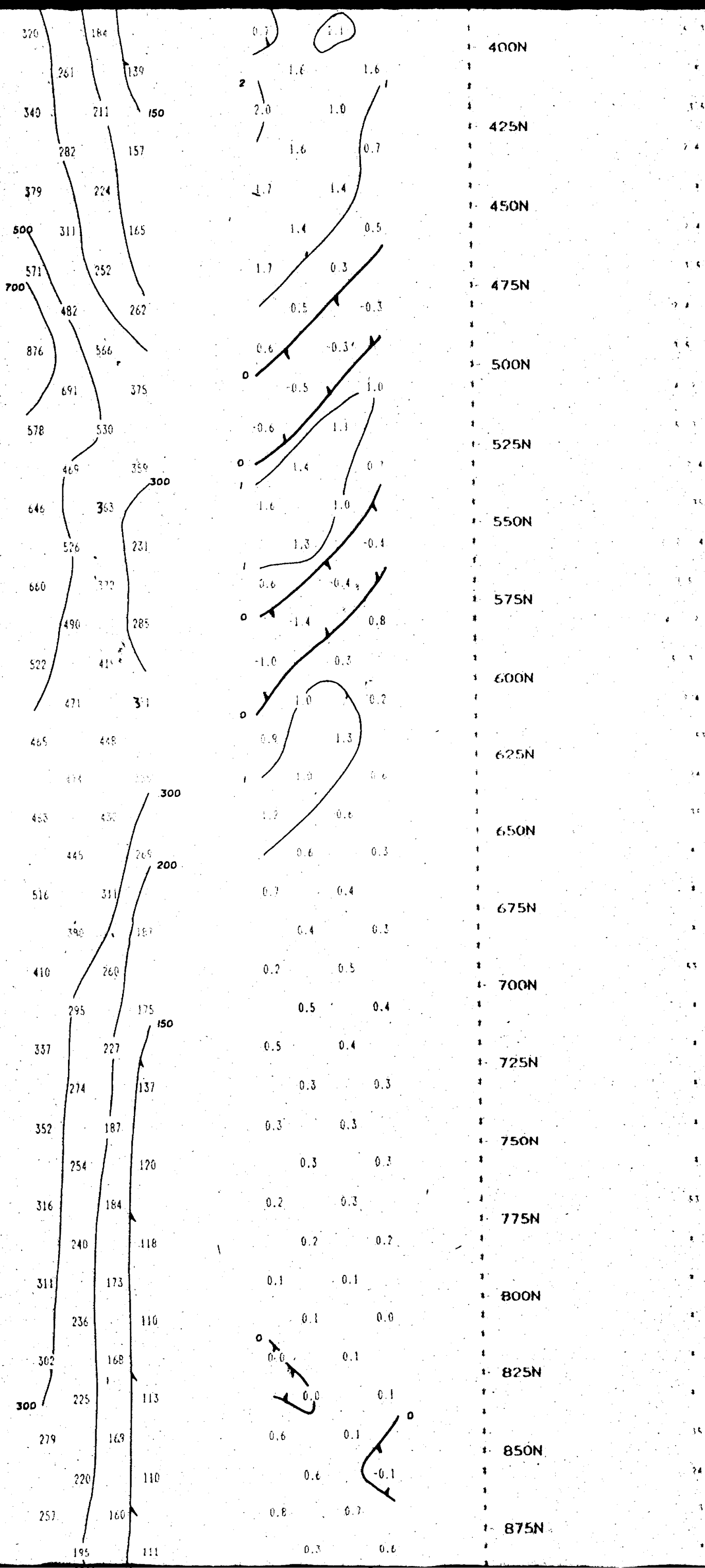
IP Pseudosections for N = 2 to 5

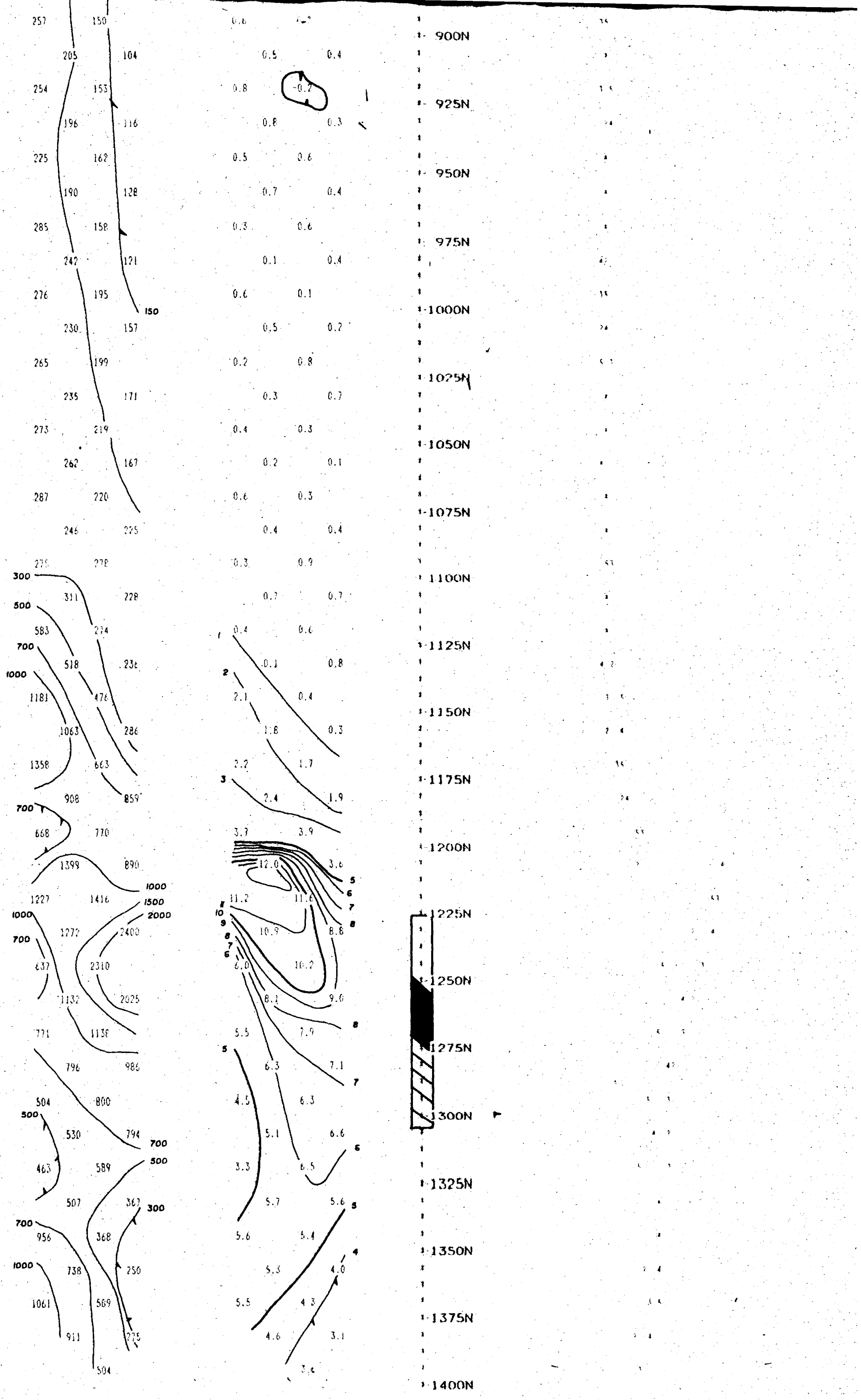
'a' Spacing = 25 M

LINE 20 W

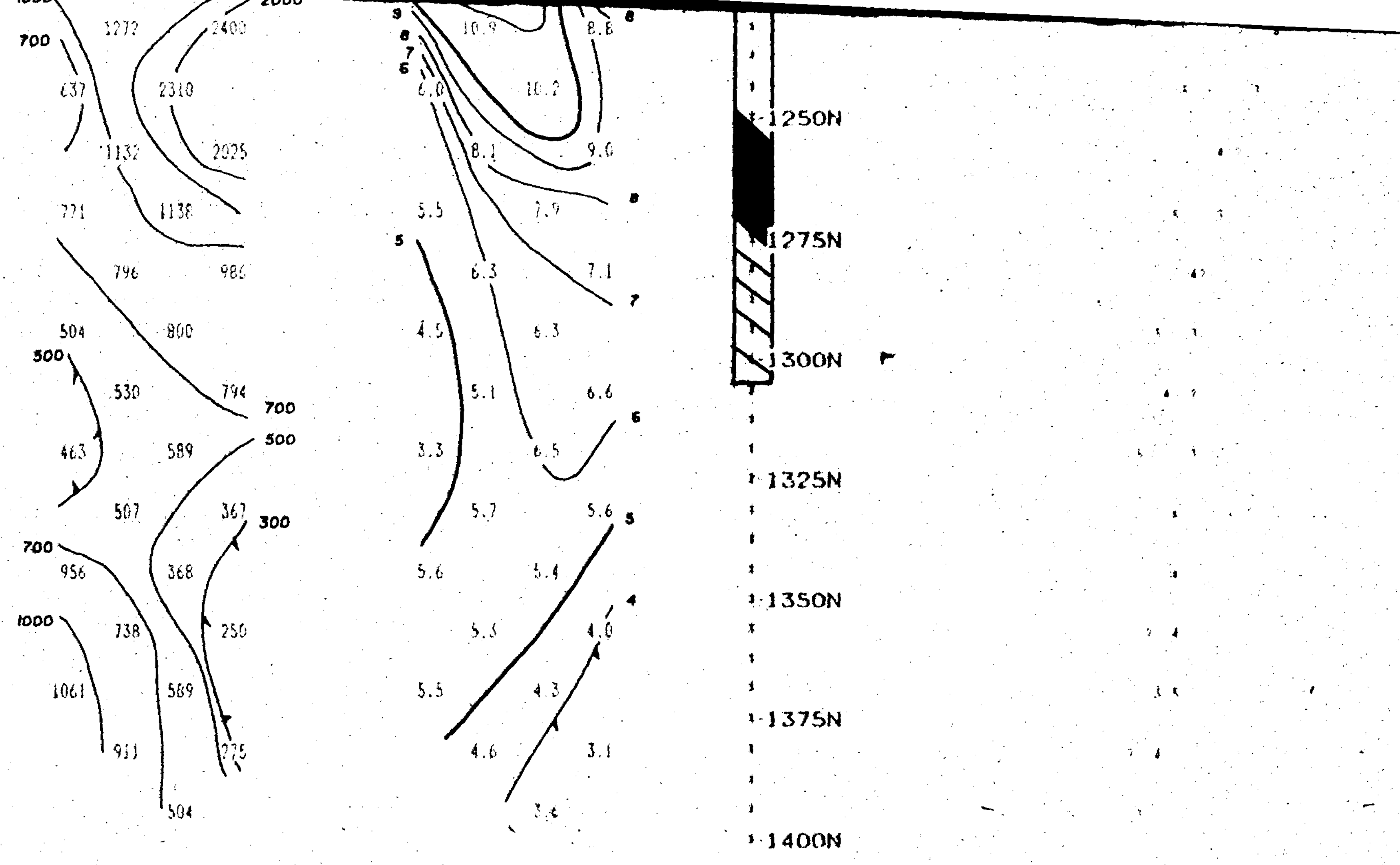
SCALE : 1:1250


RESISTIVITY (ohm - metres)
CHARGEABILITY (milliseconds)
CHARGEABILITY PROFILE
N 4
N 2
N 5
N 3
-10
-5
0
5
10
15
20
50N
75N
100N
125N
150N
175N
200N
225N
250N
275N
300N
325N
350N
375N


400N
425N
450N
475N
500N
525N
550N
575N
600N
625N
650N
675N
700N
725N
750N
775N
800N
825N
850N
875N



Property ST LAURENT TWP



Property ST LAURENT TWP

Client : TARZAN GOLD INC.

Date of Survey : 21/4/88

Operator : TAA

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

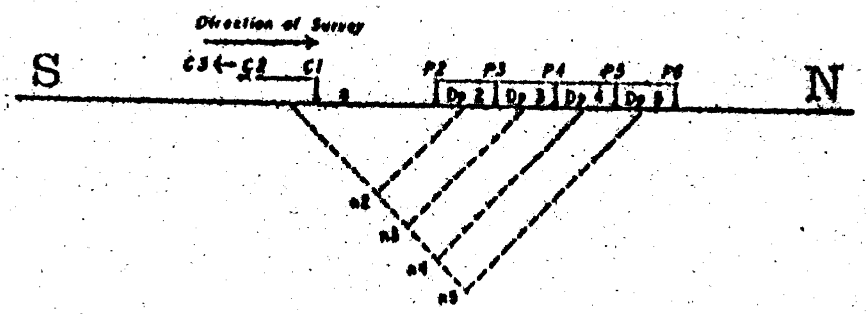
Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Chargeability Window Plotted : #7

Delay Time : 450 ms

Integration Time : 900 ms



****

R. S. MIDDLETON EXPLORATION

SERVICES INC.

****

IP Pseudosections for N = 2 to 5

'a' Spacing = 25 M

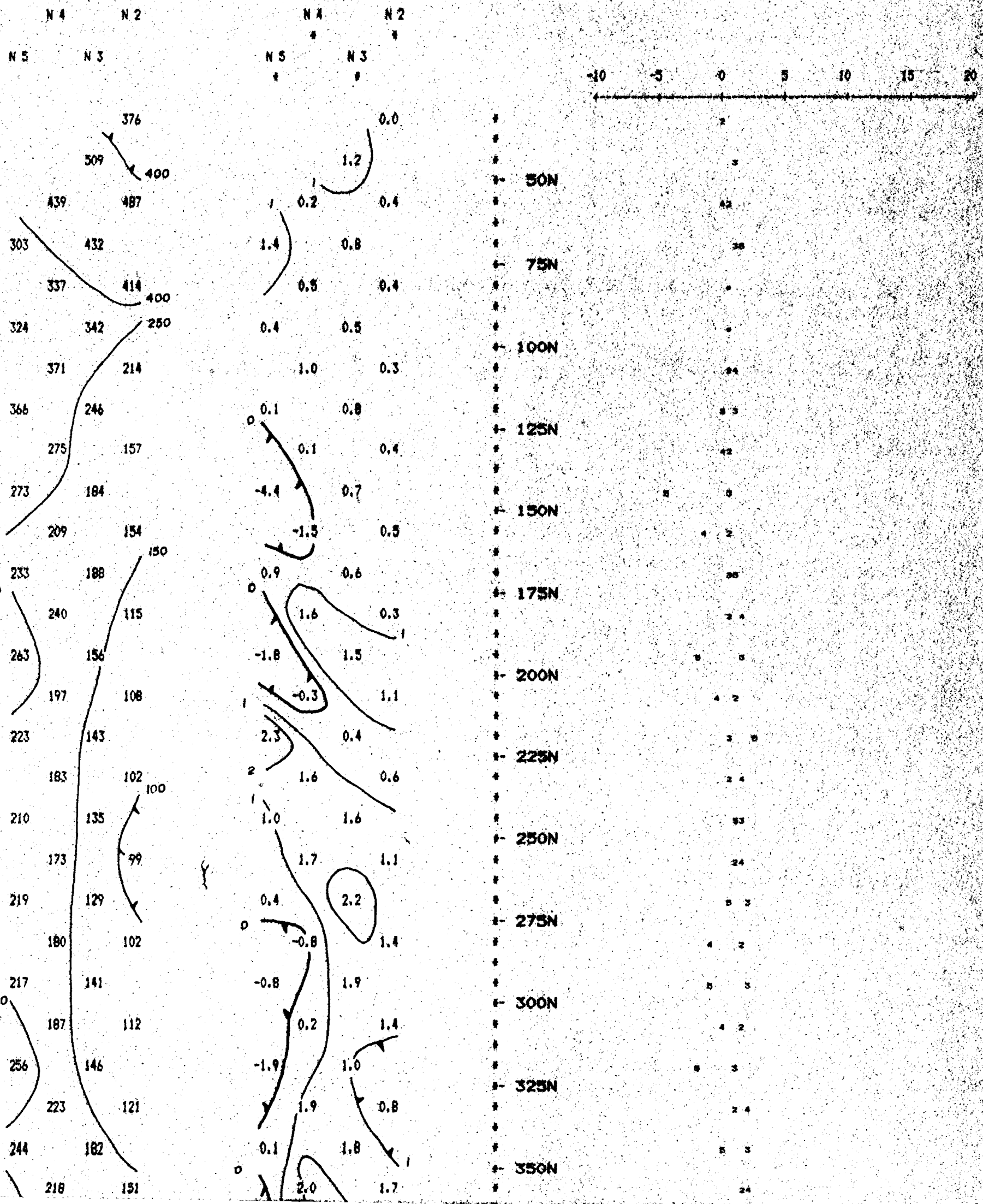
LINE 21 W

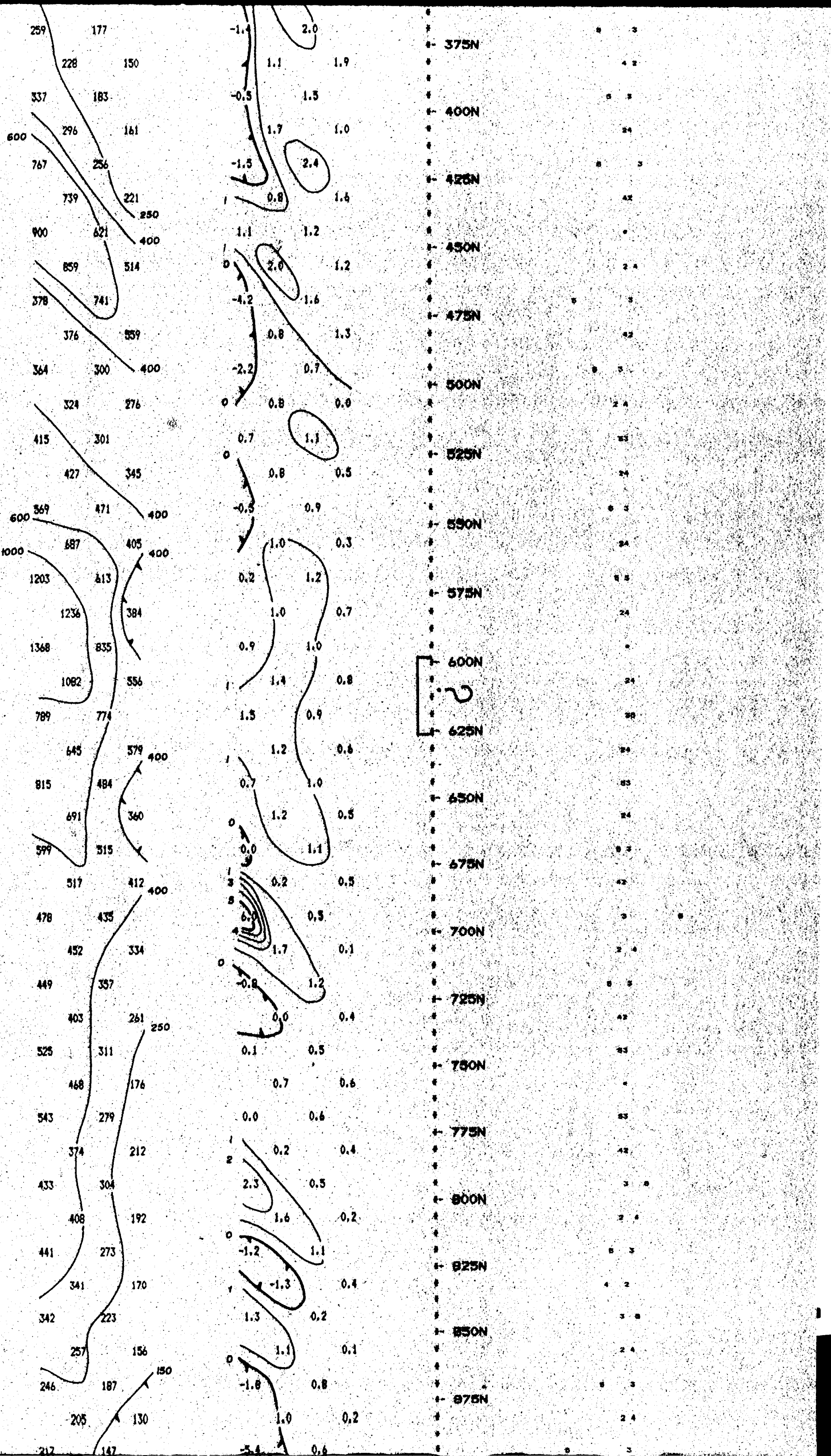
SCALE = 1:1250

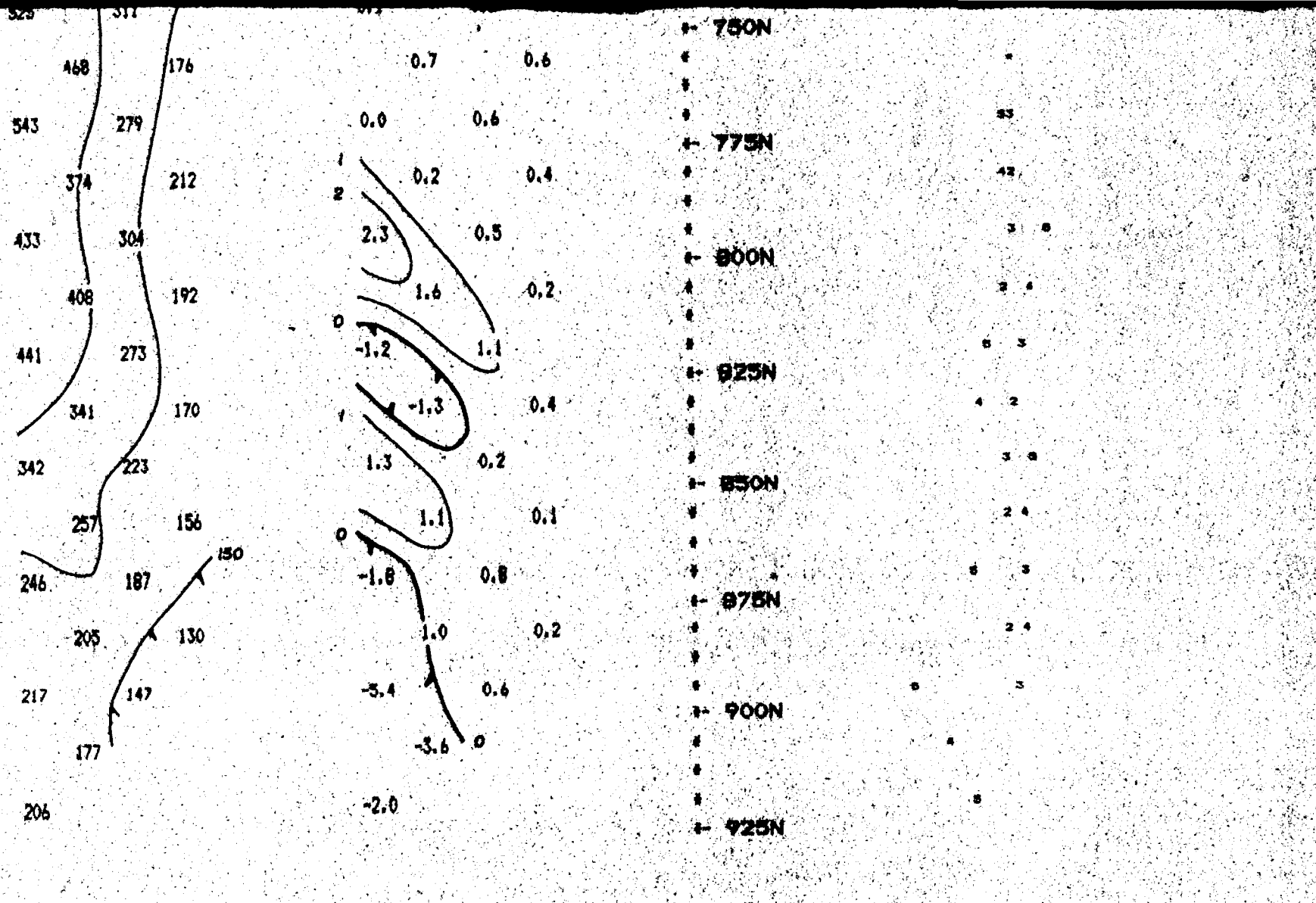
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

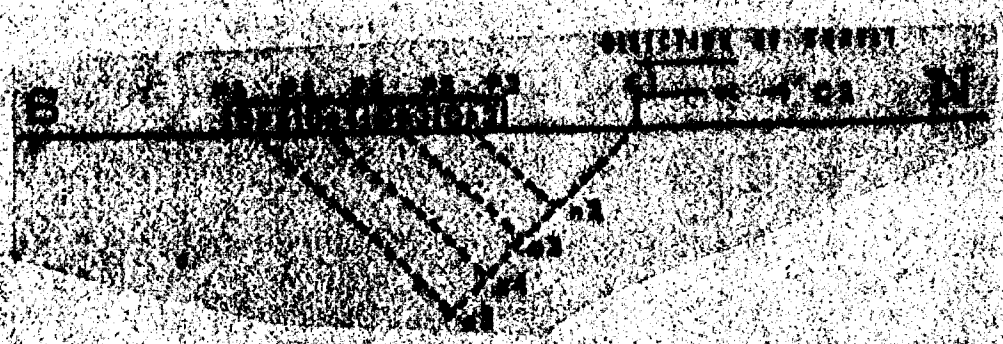



375N
400N
425N
450N
475N
500N
525N
550N
575N
600N
625N
650N
675N
700N
725N
750N
775N
800N
825N
850N
875N



Property : CHIMP GRID
Client : TARZAN GOLD INC.

Date of Survey : 27/3/88
Operator : TAA
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TBD-3
Pulse Time : 2 Sec on 2 Sec off
Chargeability Window Plotted : #7
Delay Time : 450 ms
Integration Time : 900 ms



****

R. S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 2 to 5

a Spacing = 25 M

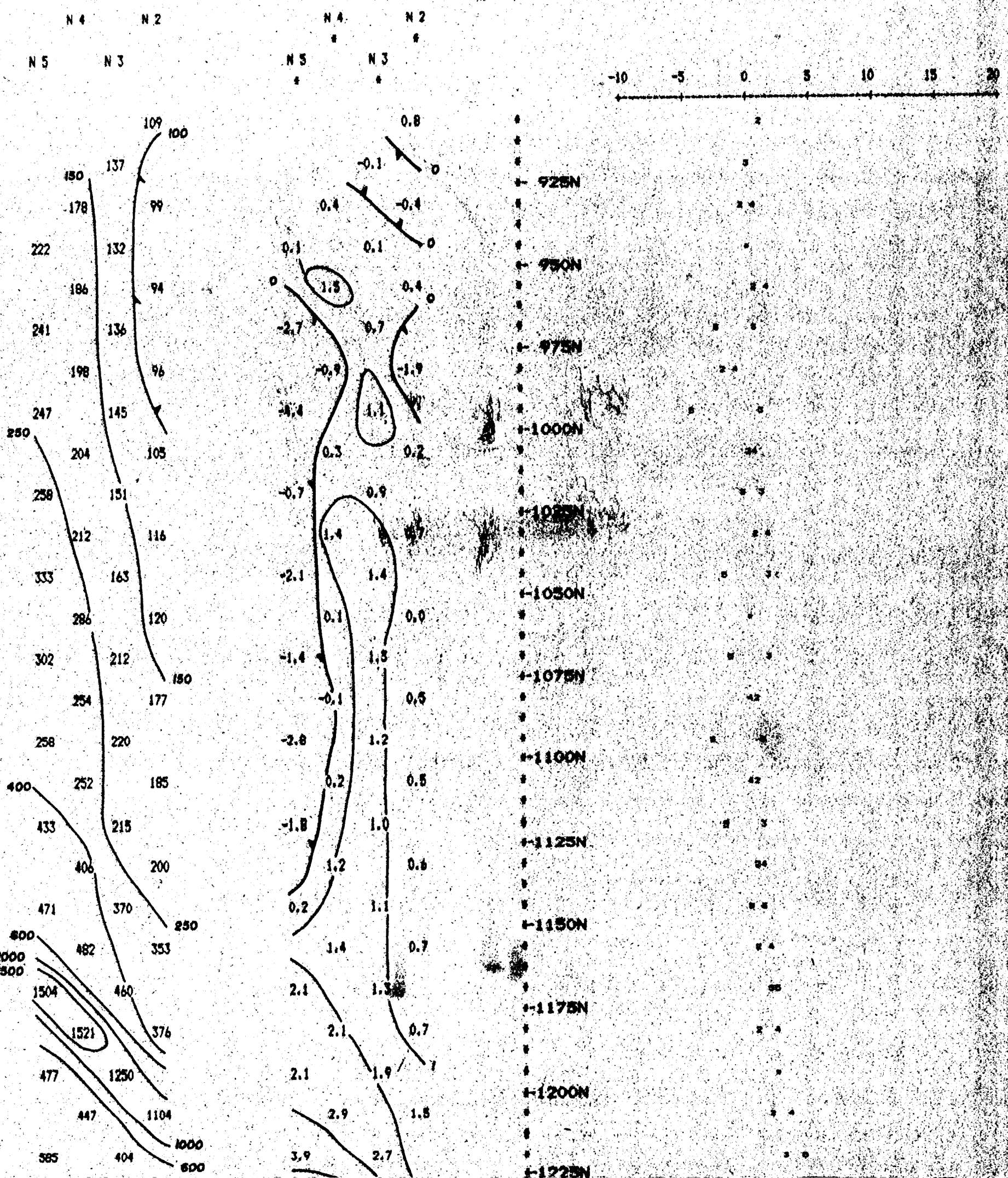
LINE 22 W

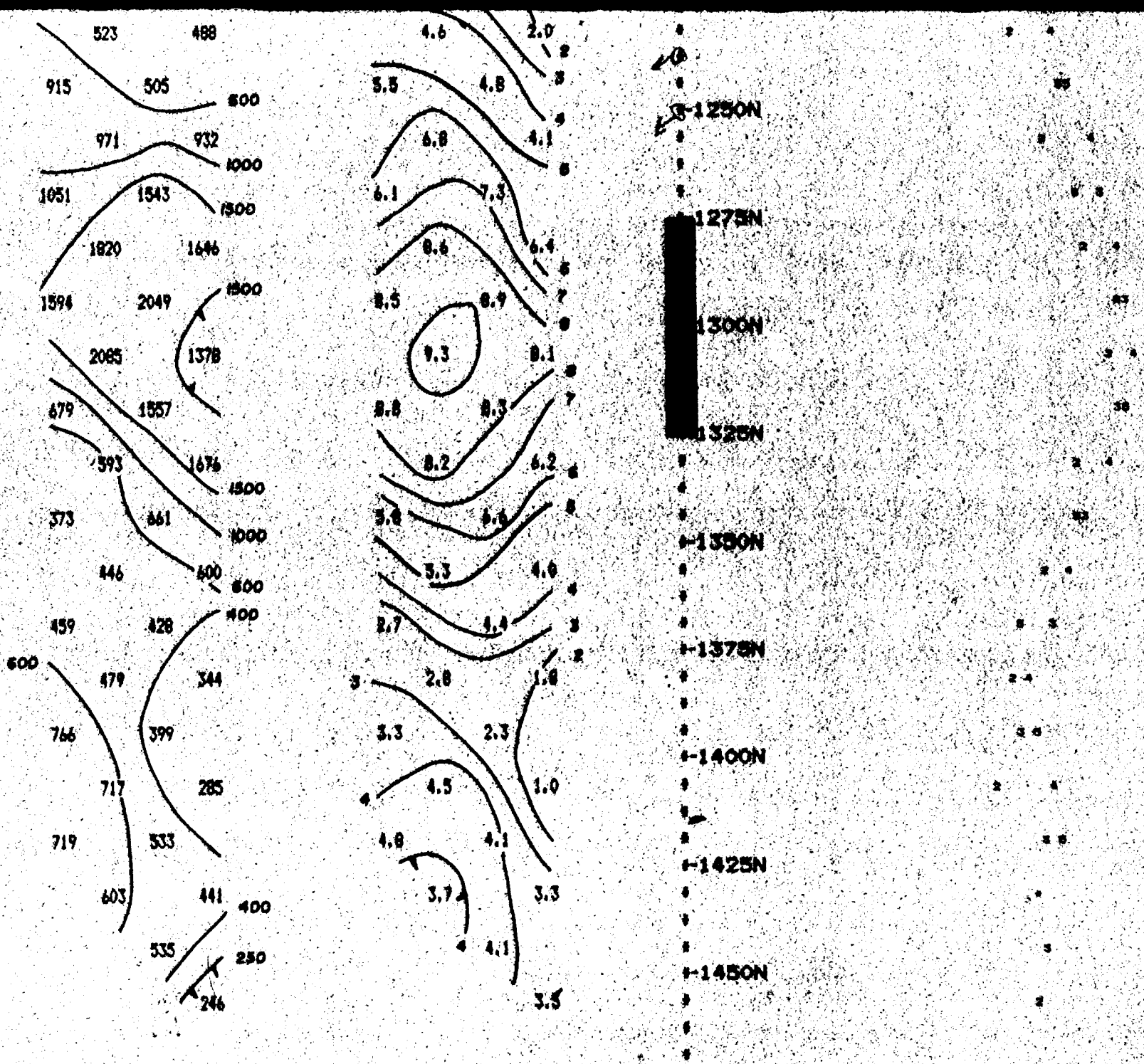
SCALE : 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE





Property : CHIMP GRID
Client : TARZAN GOLD INC.

Date of Survey : 28/3/88
Operator : TAA
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Chargeability Window Plotted : #7
Delay Time : 450 ms
Integration Time : 900 ms

R. S. MIDDLETON EXPLORATION SERVICES INC.

IP Pseudosections for N = 2 to 5

'a' Spacing = 25 M

LINE 22 W

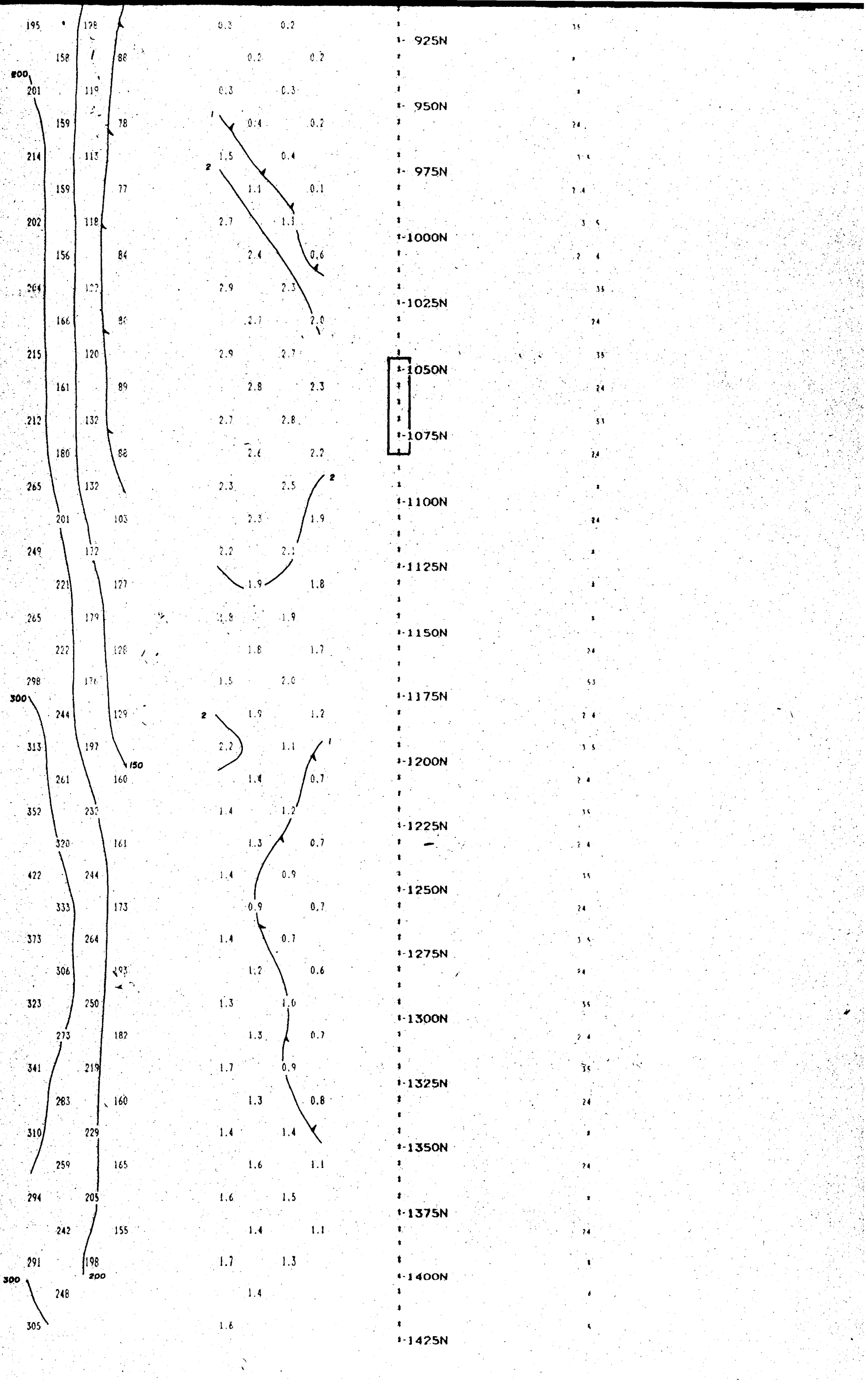
SCALE : 1 : 1250

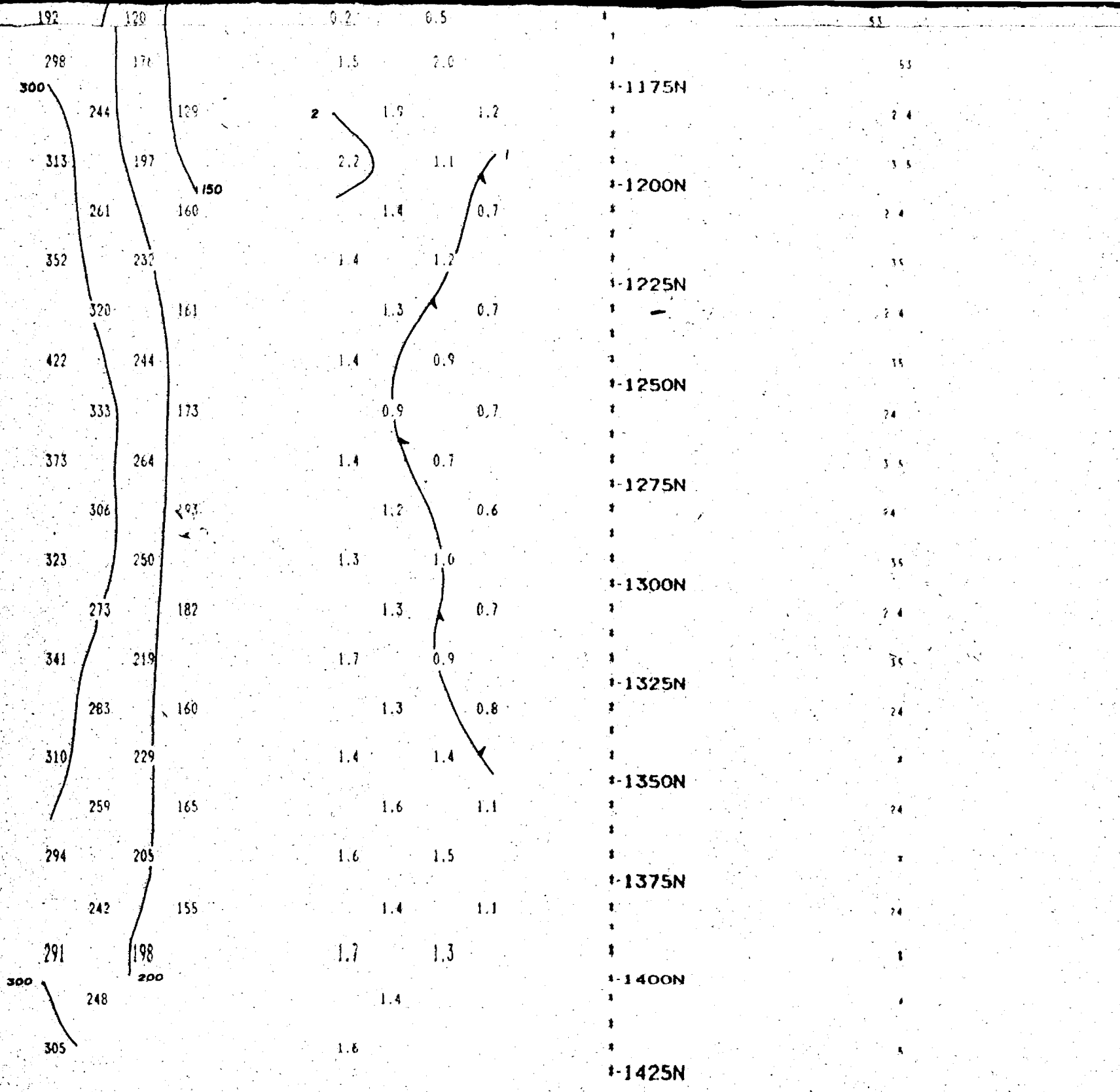
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

N 4	N 2	N 4	N 2	
N 5	N 3	N 5	N 3	-10 -5 0 5 10 15 20
	166		0.5	
200				
	209		0.9	
				50N
242	153	0.6	0.5	
150				
265	203	0.6	0.5	
				75N
235	139	0.7	0.6	
265	184	0.6	0.5	
				100N
218	122	0.6	0.5	
242	165	0.7	0.5	
				125N
193	102	0.7	0.5	
100				
216	130	0.5	0.6	
				150N
161	89	0.4	0.6	
192	120	0.2	0.5	
				175N
150	84	0.3	0.4	42
179	119	0.6	0.3	
				200N
148	81	0.5	0.3	
190	111	0.5	0.5	
				225N
149	78	0.7	0.5	
196	113	0.4	0.8	53
				250N
155	82	0.7	0.7	
196	123	0.3	0.6	
200				275N
160	84	0.3	0.6	
230	120	0.3	0.4	
				300N
0				
176	87	0.2	0.5	42
254	138	-0.1	0.3	53
				325N
204	96	0.1	0.4	42
288	153	0.0	0.2	
				350N
223	117	0.1	0.2	
275	188	-0.2	0.1	
300				375N
236	135	-0.3	0.0	42
330	186	-0.3	-0.3	
				400N
0				
268	137	-0.5	-0.2	42


925N
950N
975N
1000N
1025N
1050N
1075N
1100N
1125N
1150N
1175N
1200N
1225N
1250N
1275N
1300N
1325N
1350N
1375N
1400N
1425N



Property : ST LAURENT TWP

Client : TARZAN GOLD INC.

Date of Survey : 22/4/88

Operator : TAA

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

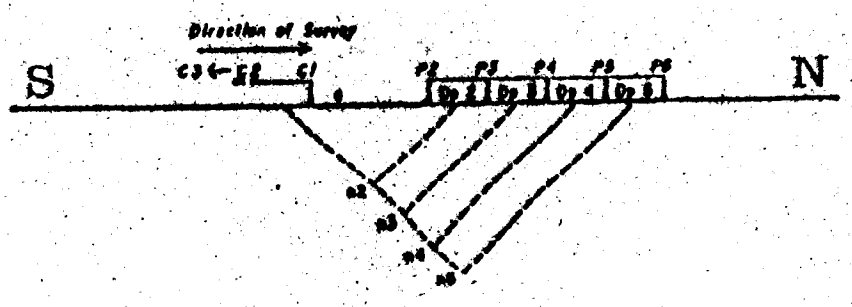
Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Chargeability Window Plotted : #7

Delay Time : 450 ms

Integration Time : 900 ms



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R. S. MIDDLETON EXPLORATION

SERVICES INC.

****

IP Pseudosections for N = 2 to 5

'a' Spacing = 25 M

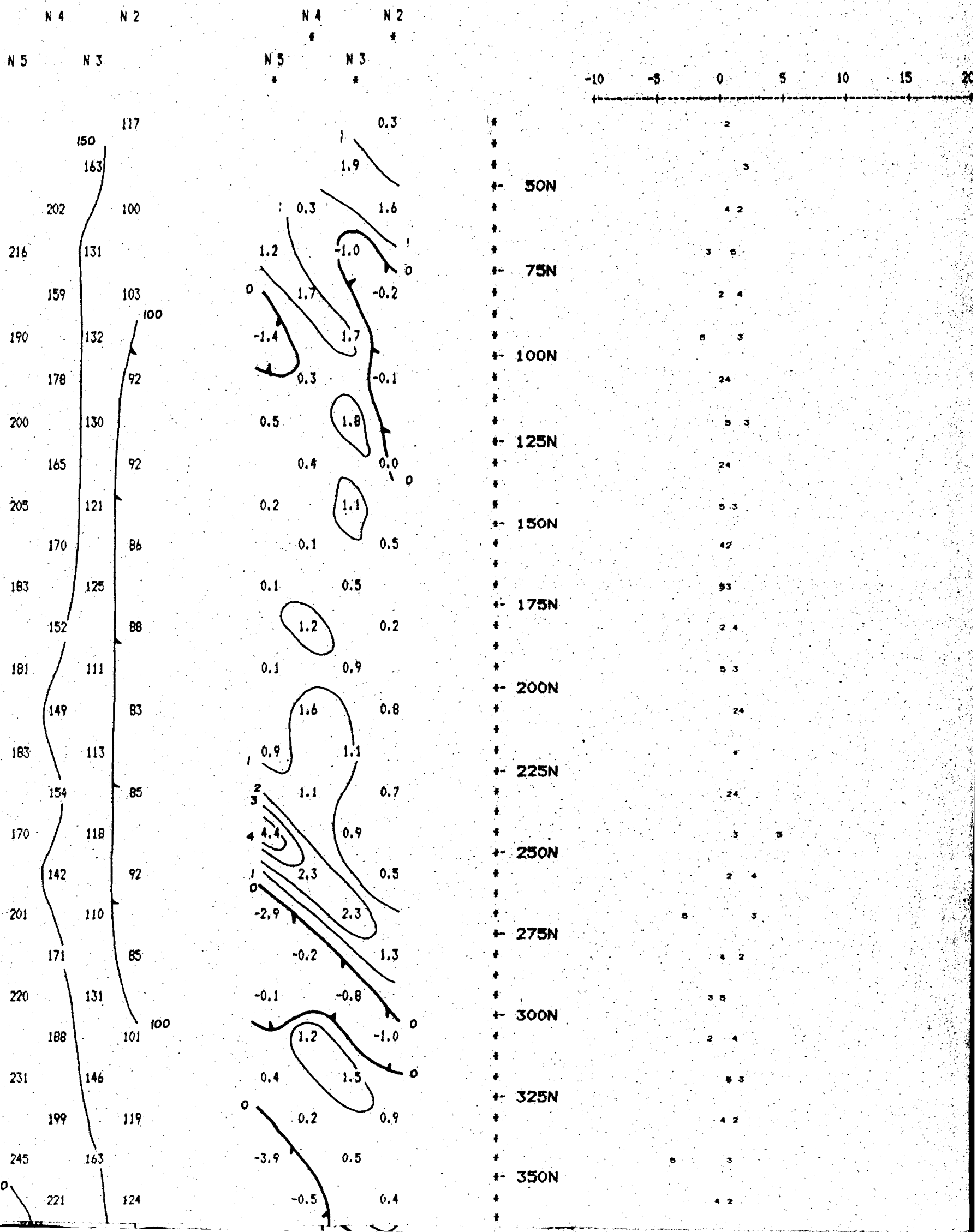
LINE 24 W

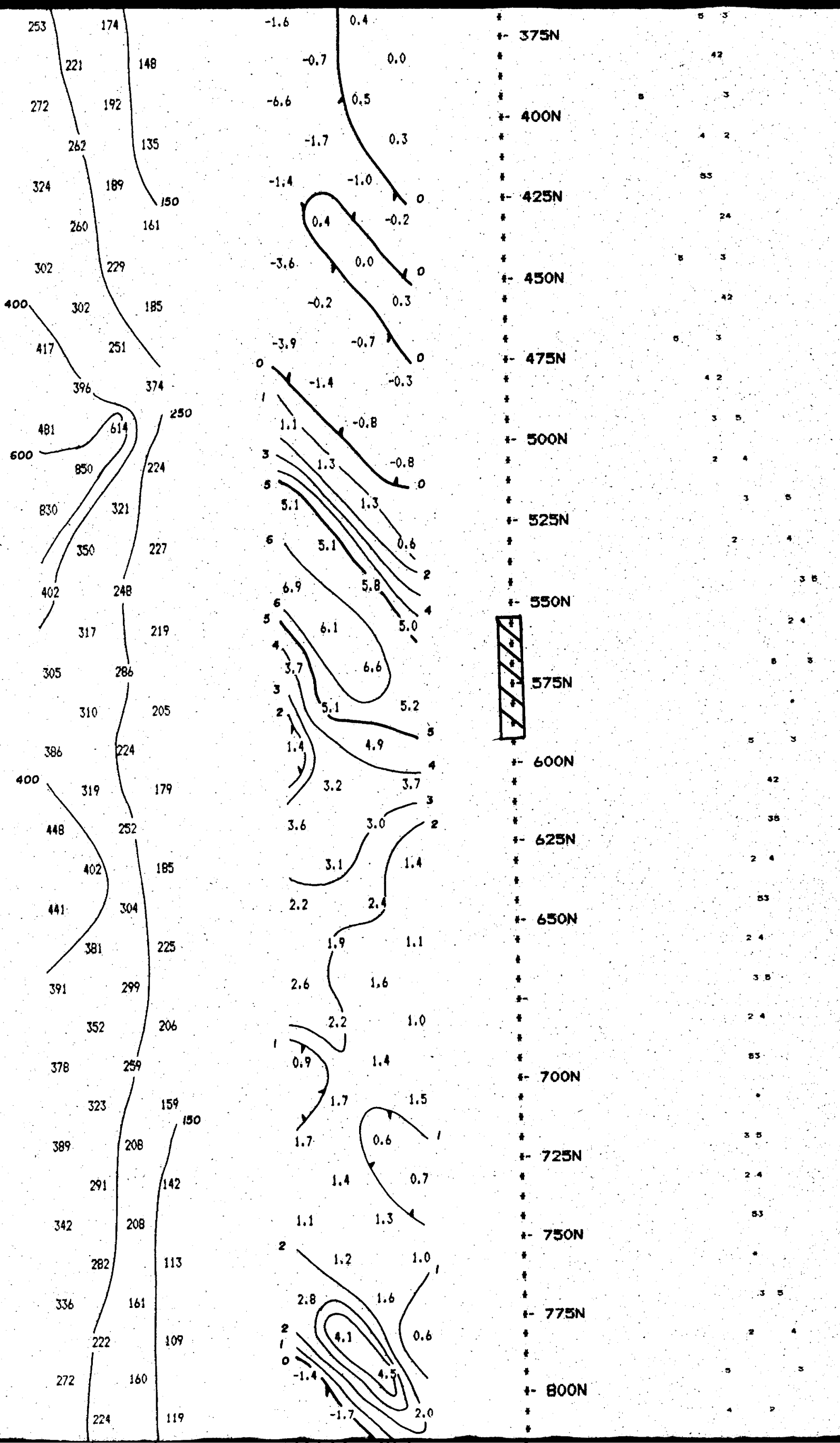
SCALE : 1:1250

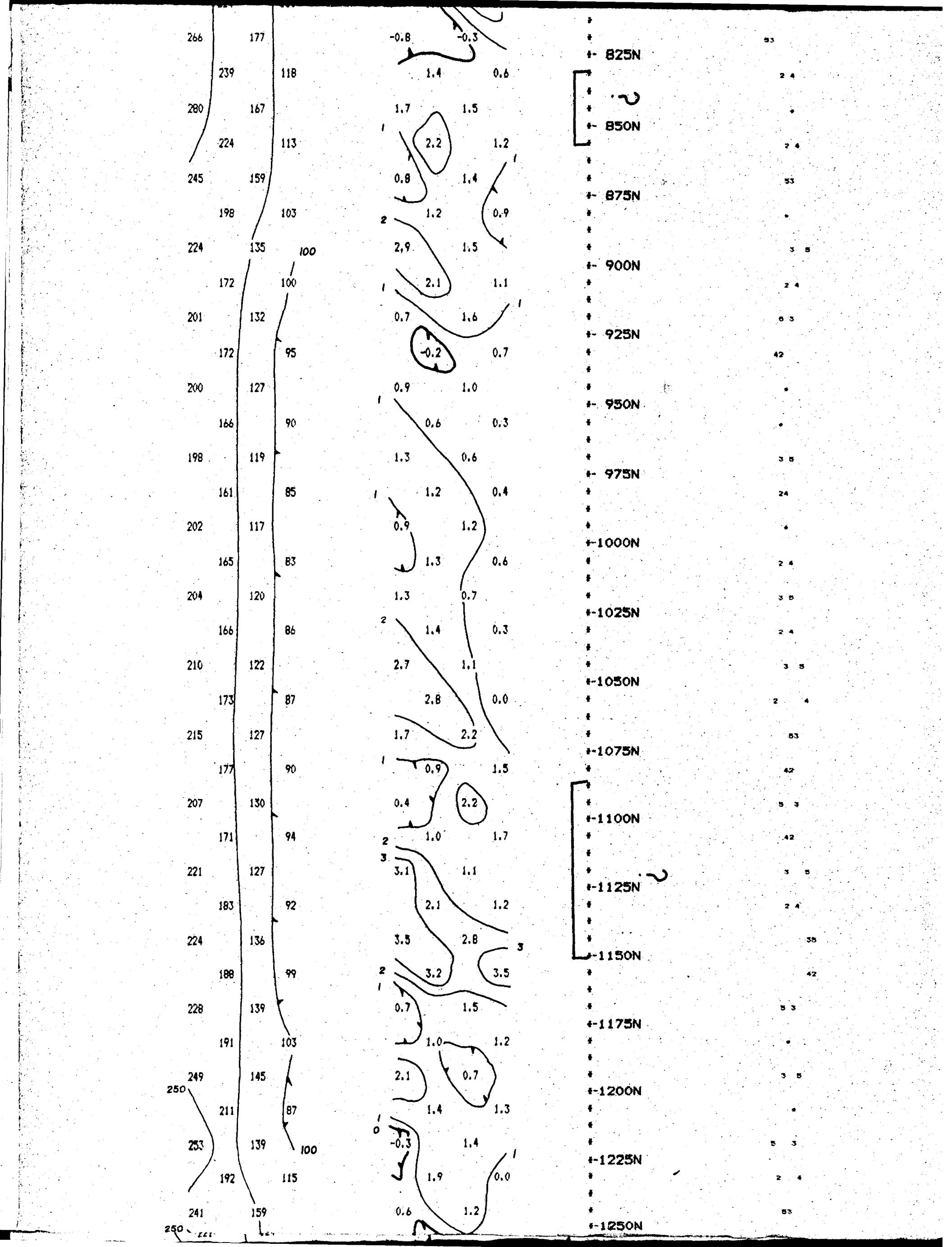
RESISTIVITY
(ohm - metres)

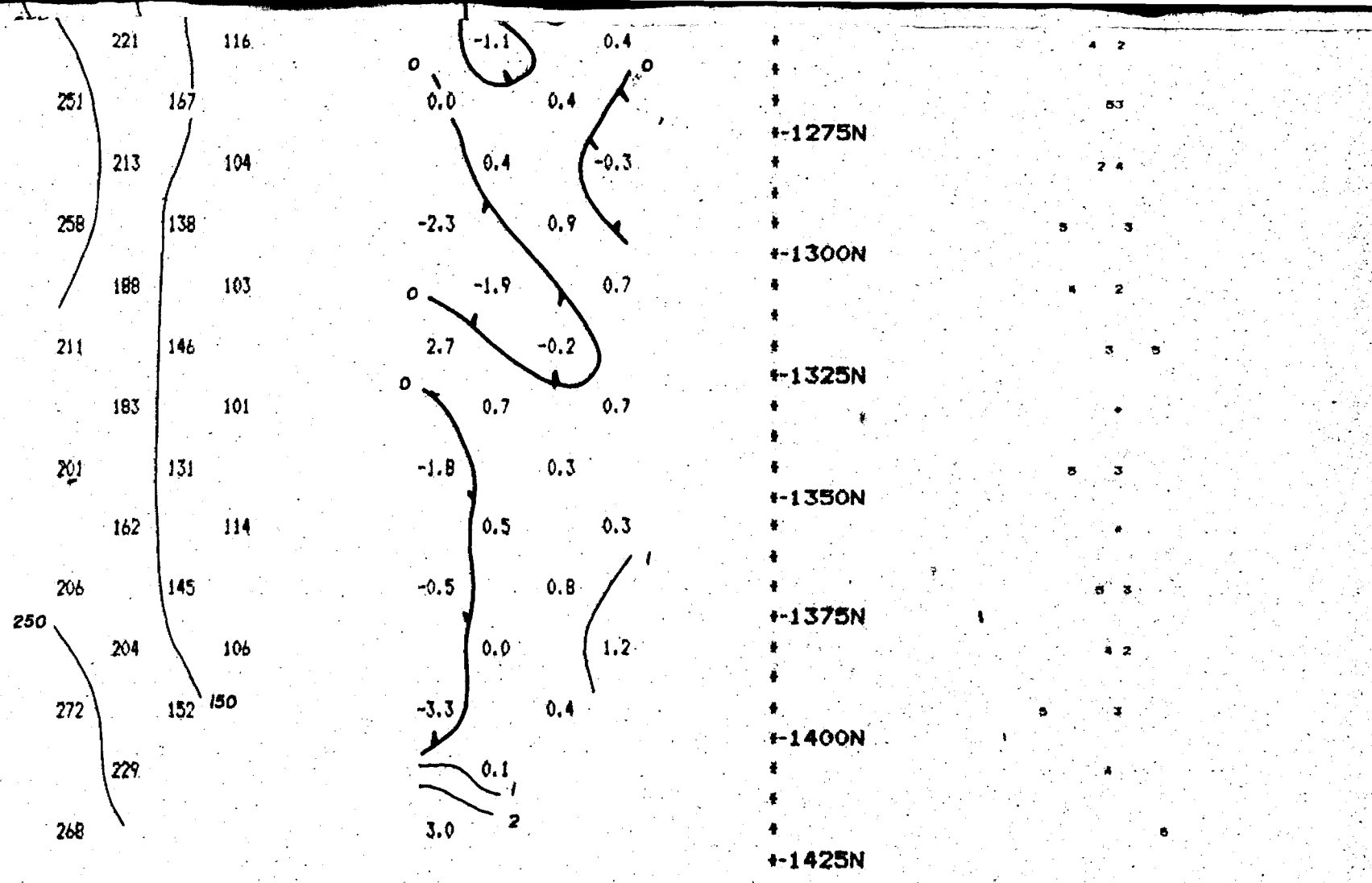
CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE



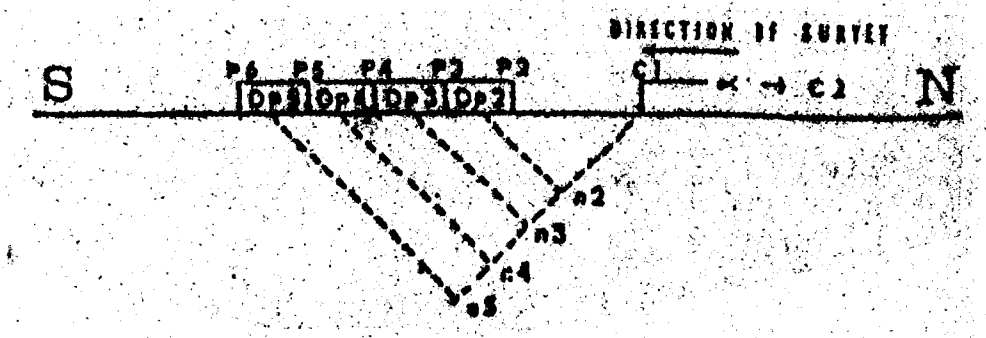

375N
400N
425N
450N
475N
500N
525N
550N
575N
600N
625N
650N
700N
725N
750N
775N
800N


825N
850N
875N
900N
925N
950N
975N
1000N
1025N
1050N
1075N
1100N
1125N
1150N
1175N
1200N
1225N
1250N



Property : CHIMP GRID
Client : TARZAN GOLD INC.

Date of Survey : 26/3/88
Operator : TAA
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Chargeability Window Plotted : #7
Delay Time : 450 ms
Integration Time : 900 ms



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R. S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 2 to 5

'a' Spacing = 25 M

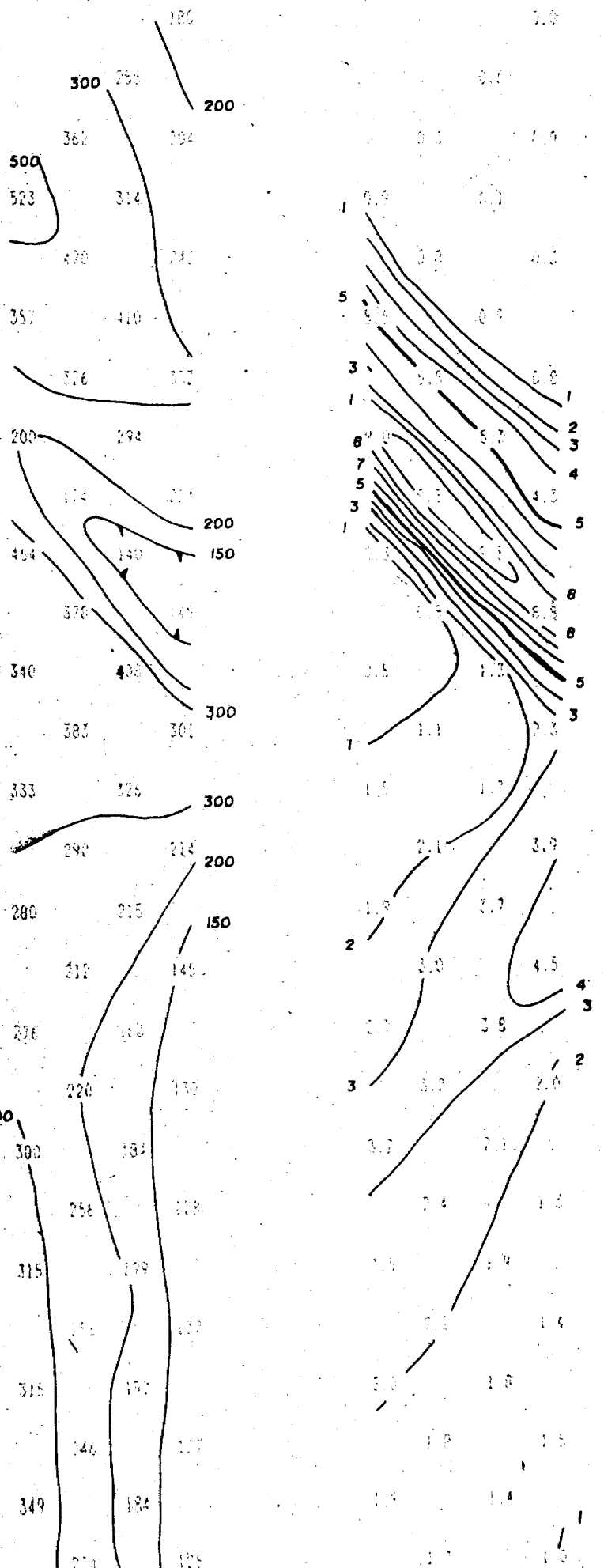
LINE 25 W

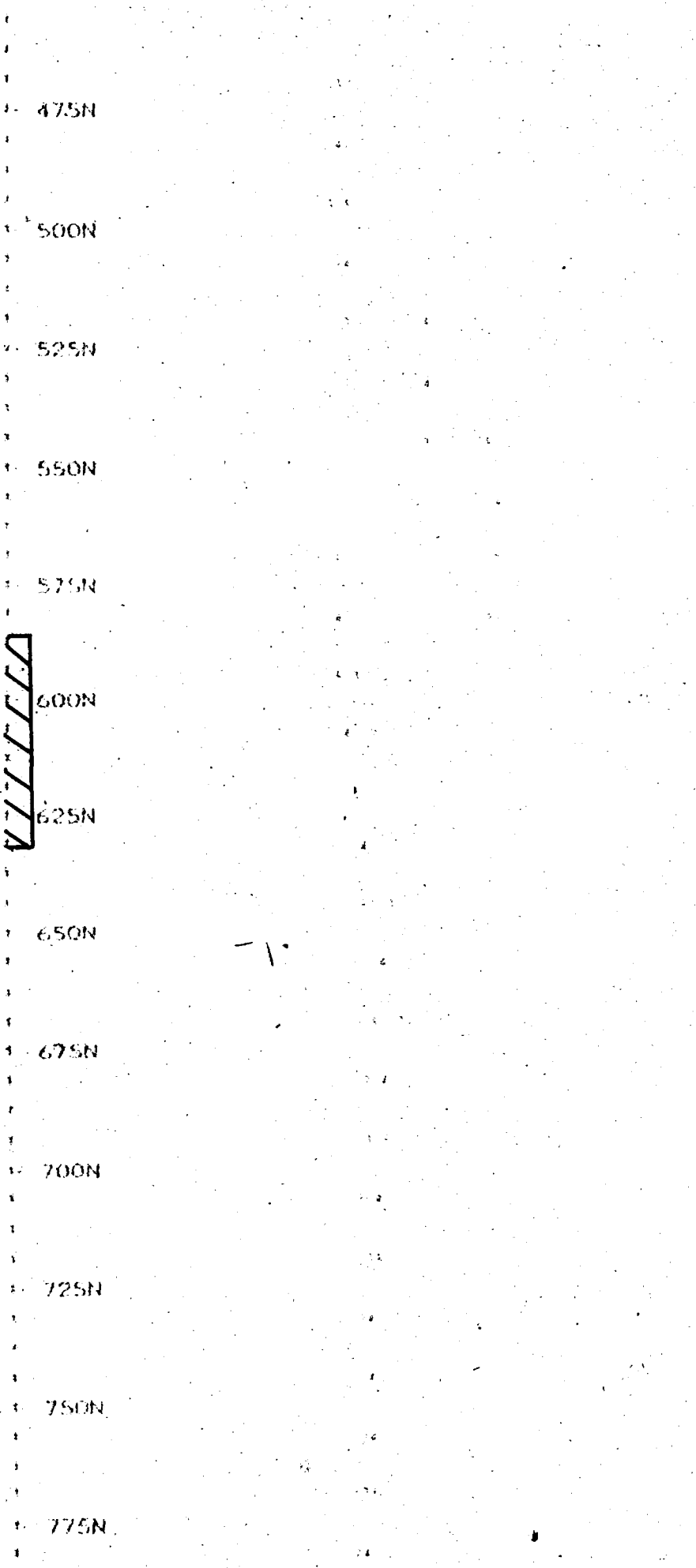
SCALE : 1 : 1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE





800N

825N

850N

875N

900N

925N

950N

975N

1000N

1025N

1050N

1075N

1100N

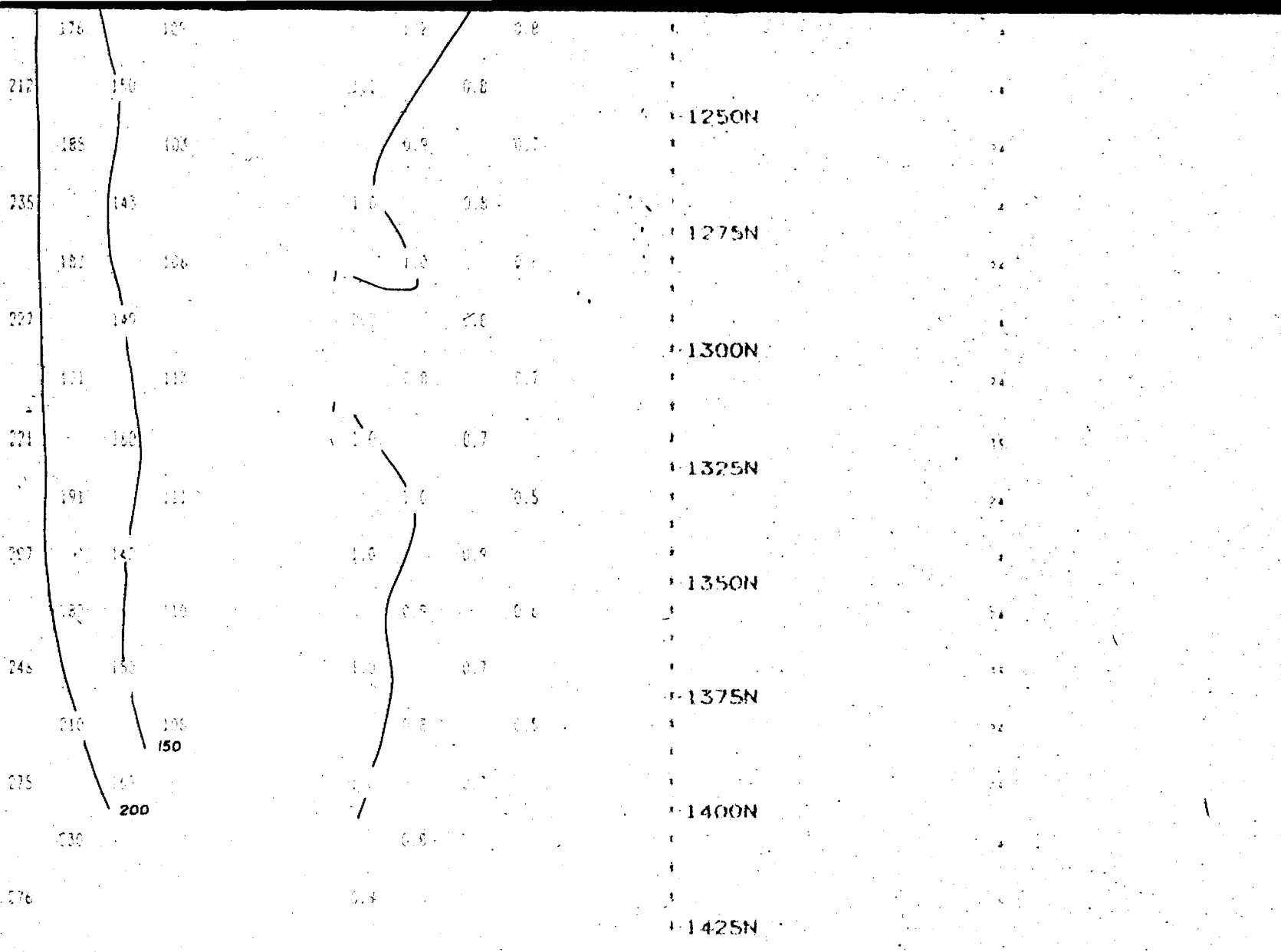
1125N

1150N

1175N

1200N

1225N



Property : ST LAURENT TWP

Client : YARZAN GOLD INC.

Date of Survey : 23/4/88

Operator : TAA

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

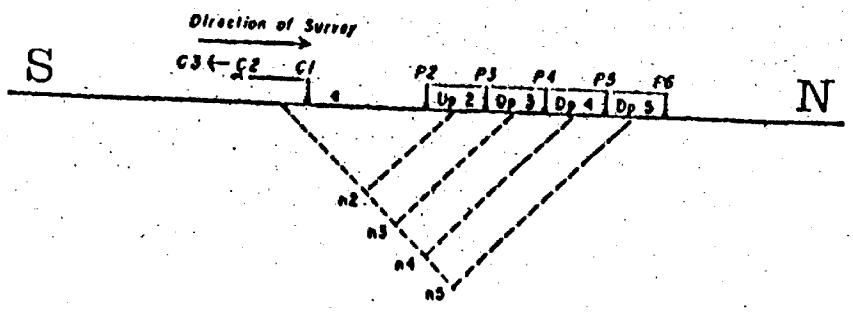
Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Chargeability Window Plotted : #7

Delay Time : 450 ms

Integration Time : 900 ms



R. S. MIDDLETON EXPLORATION SERVICES INC.

IP Pseudosections for N = 2 to 5

'a' Spacing = 25 M

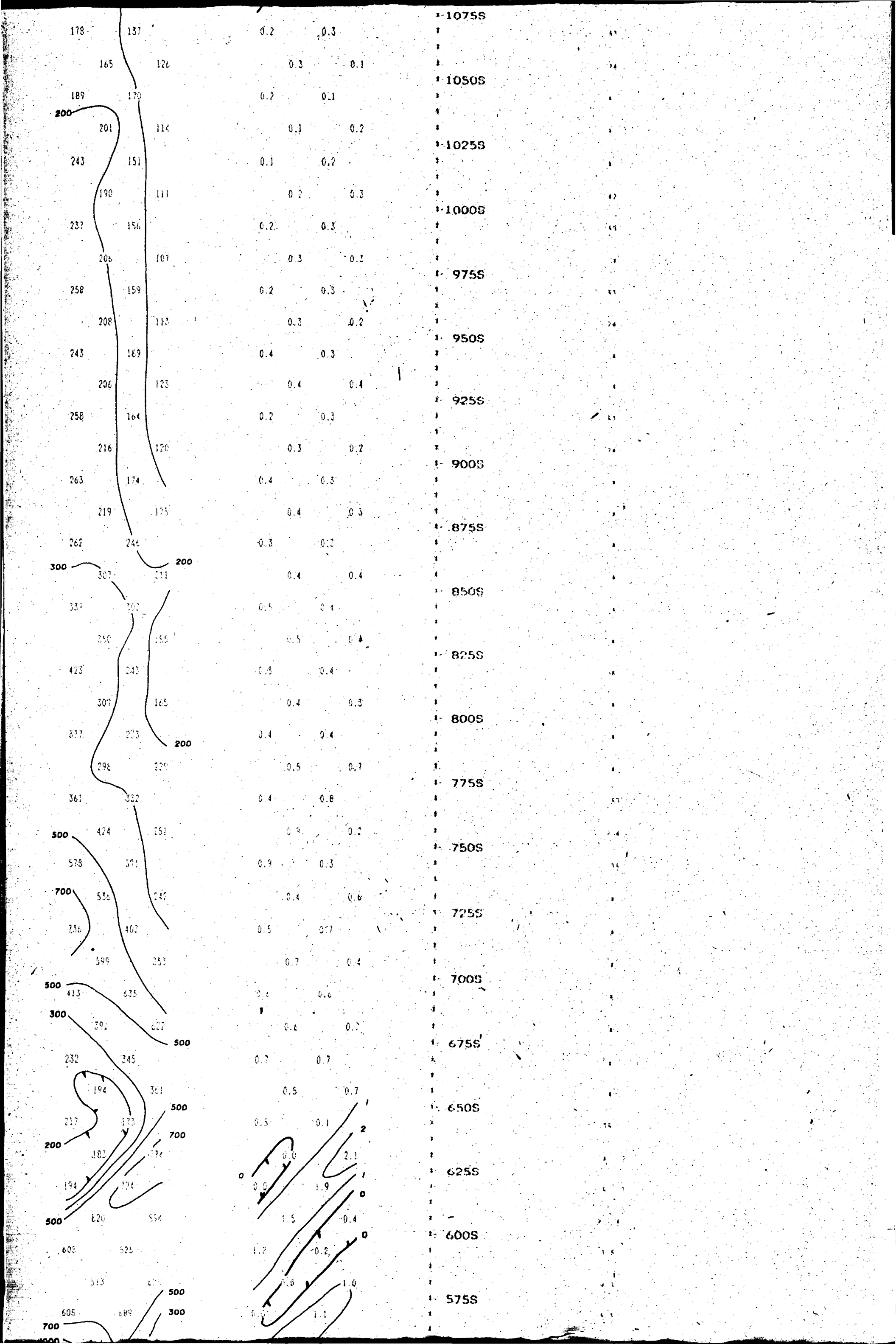
LINE 26 W

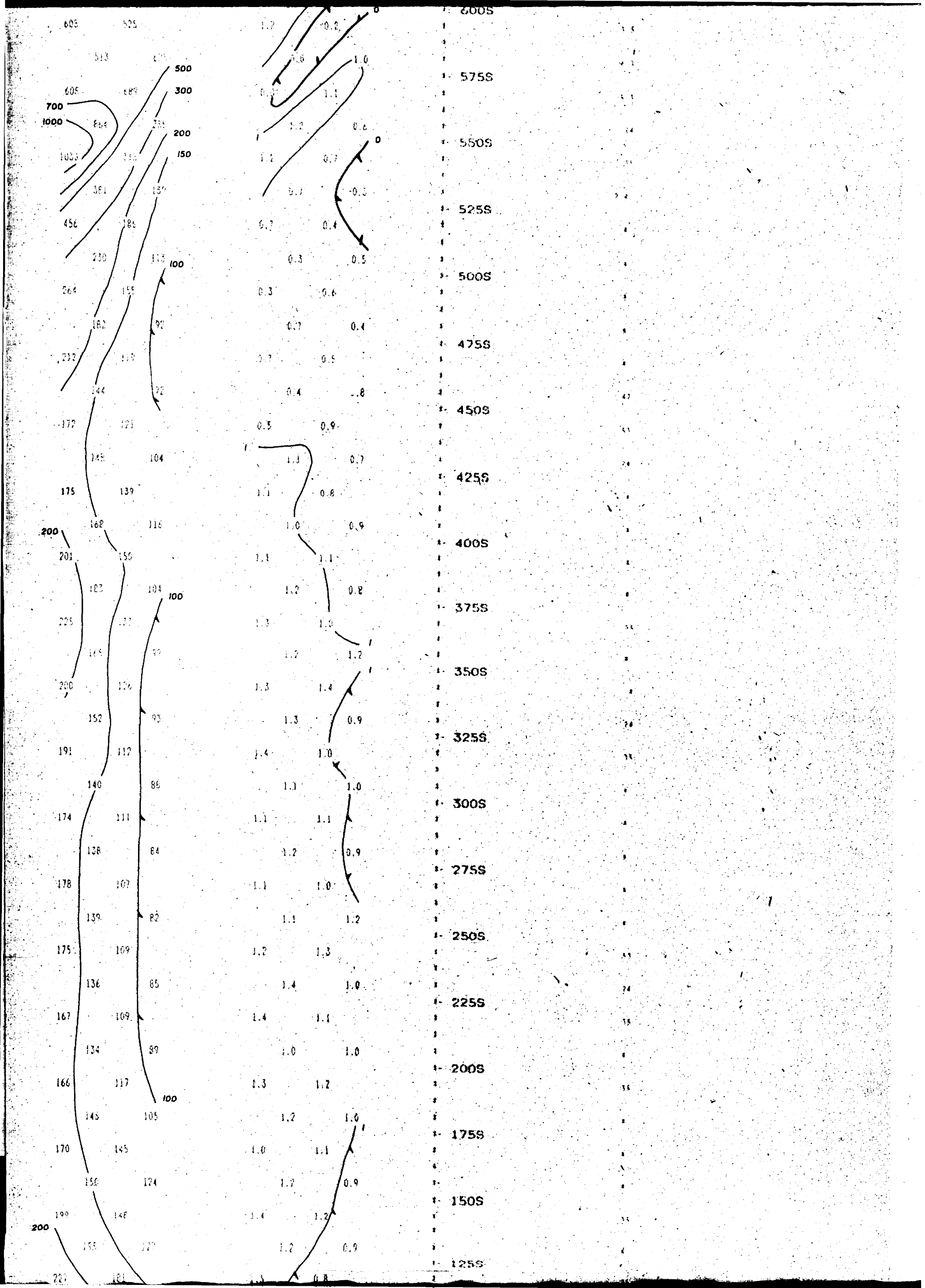
SCALE : 1:1250

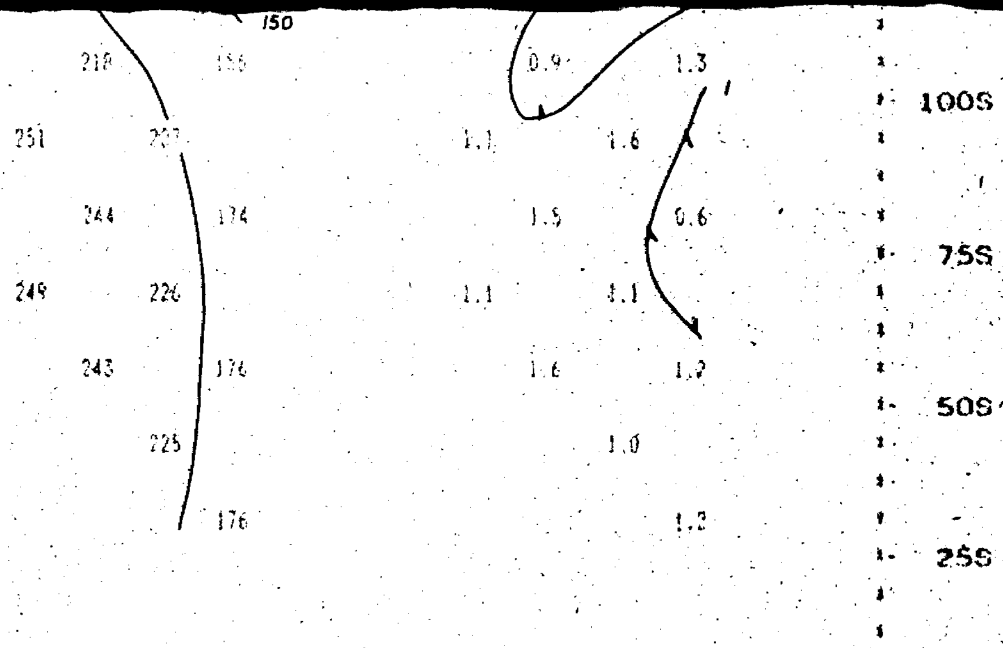
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE


1075S
1050S
1025S
1000S
975S
950S
925S
900S
875S
850S
825S
800S
775S
750S
725S
700S
675S
650S
625S
600S
575S


600S
575S
550S
525S
500S
475S
450S
425S
400S
375S
350S
325S
300S
275S
250S
225S
200S
175S
150S
125S



Property : ST LAURENT TWP

Client : TARZAN GOLD INC.

Date of Survey : 24/4/88

Operator : TAA

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

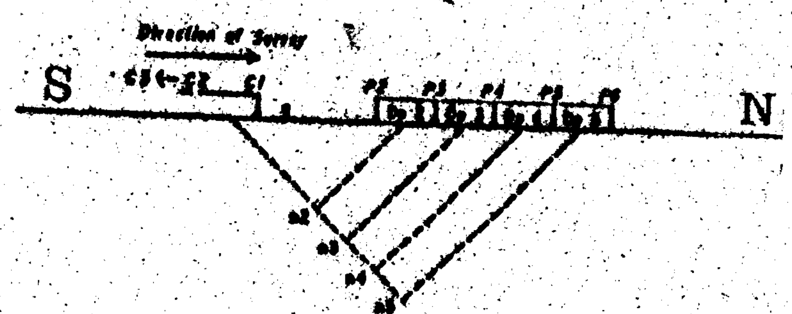
Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Chargeability Window Plotted : #7

Delay Time : 450 ms

Integration Time : 900 ms



****

R. S. MIDDLETON EXPLORATION

SERVICES INC.

****

IP Pseudosections for N = 2 to 5

'a' Spacing = 25 M

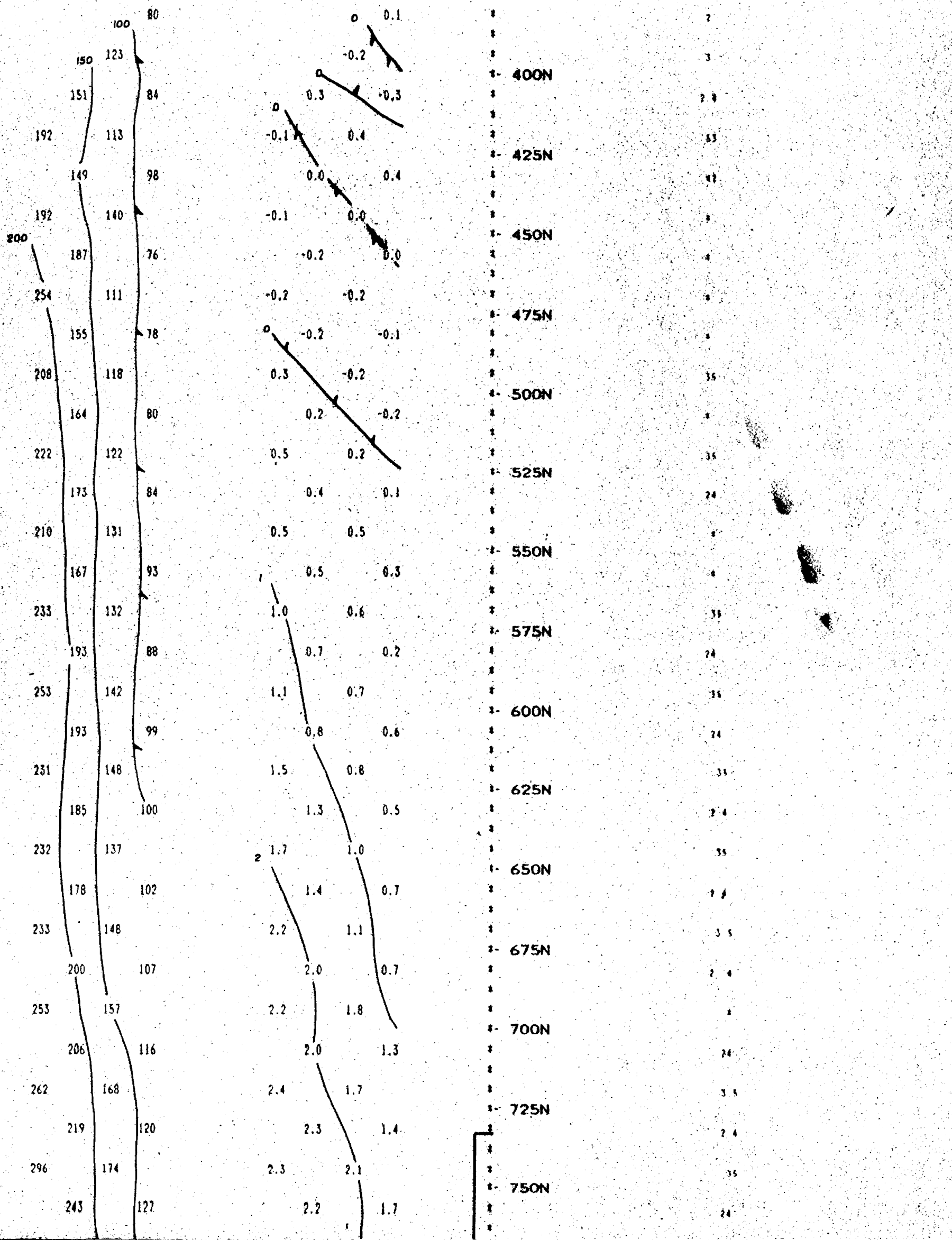
LINE 27 W

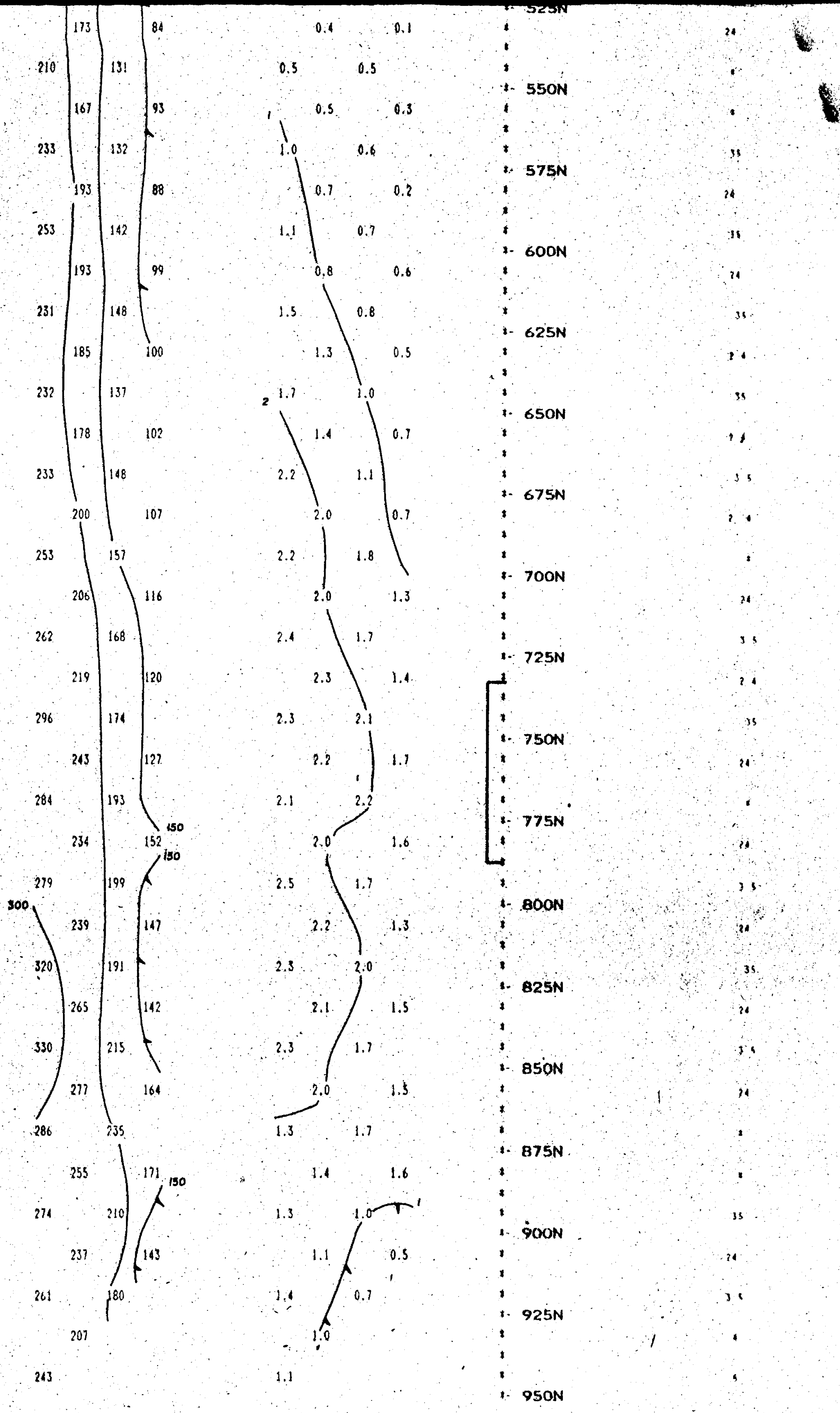
SCALE = 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE





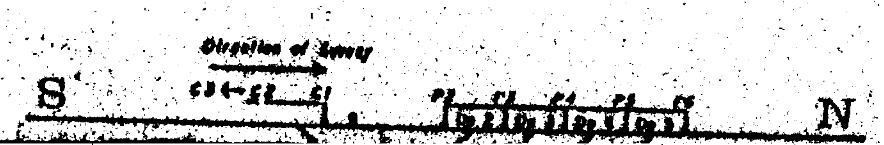
Property : ST LAURENT TWP

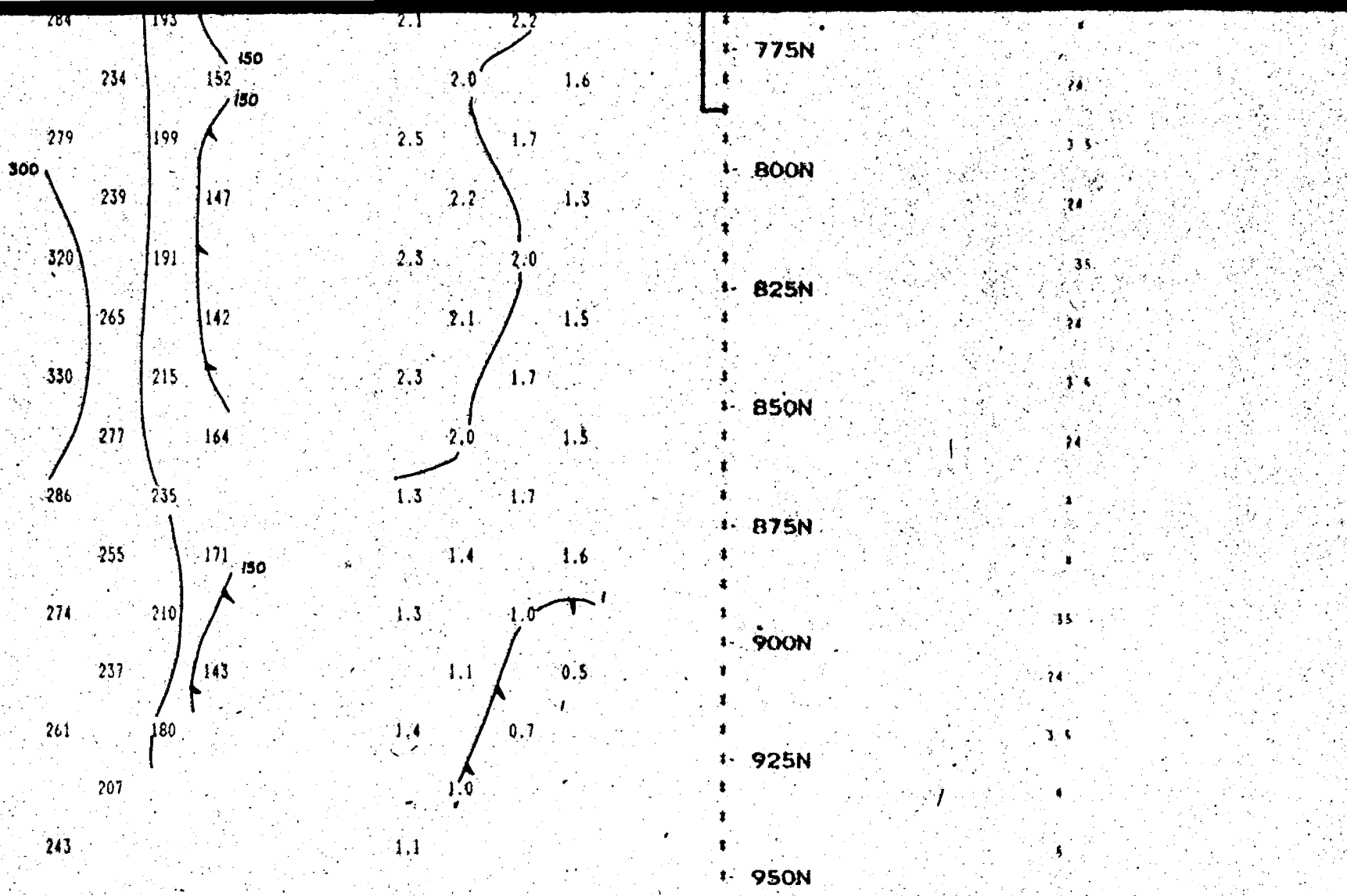
Client : TARZAN GOLD INC.

Date of Survey : 26/4/88

Operator : TAA

Electrode Array : POLE - DIPOLE





Property : ST LAURENT TWP

Client : TARZAN GOLD INC.

Date of Survey : 26/4/88

Operator : TAA

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

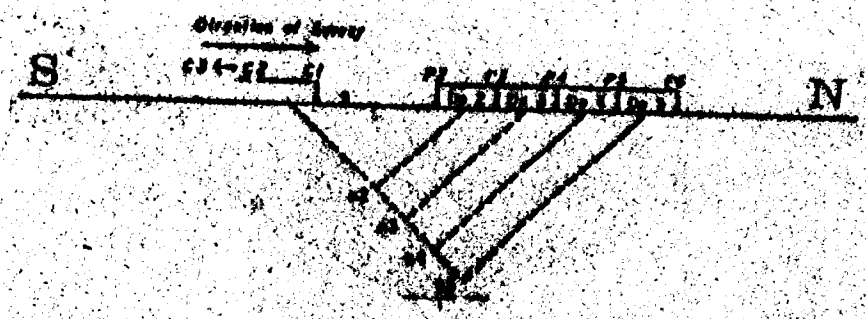
Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Chargeability Window Plotted : #7

Delay Time : 450 ms

Integration Time : 900 ms



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R. S. MIDDLETON EXPLORATION SERVICES INC.

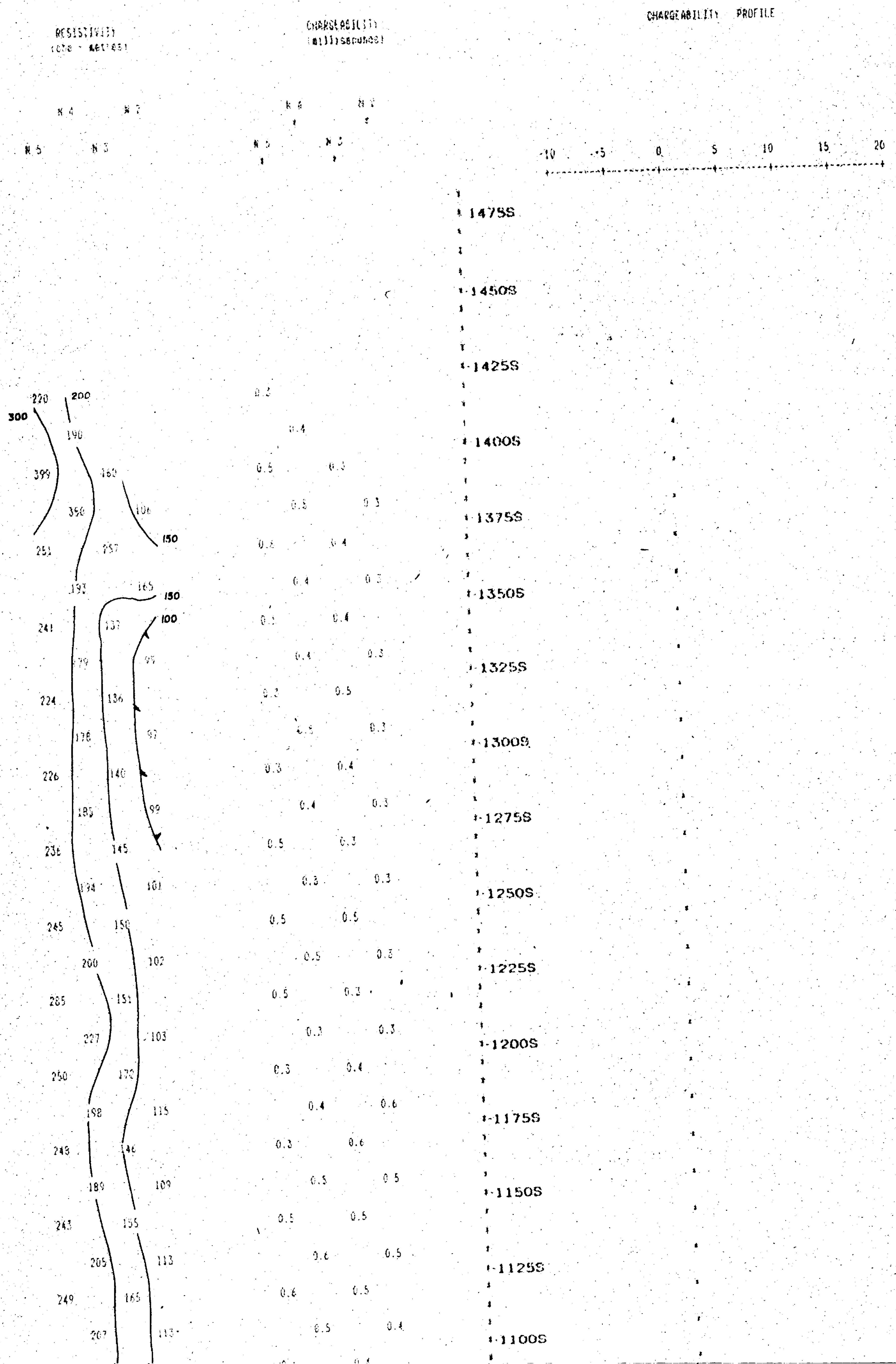
****

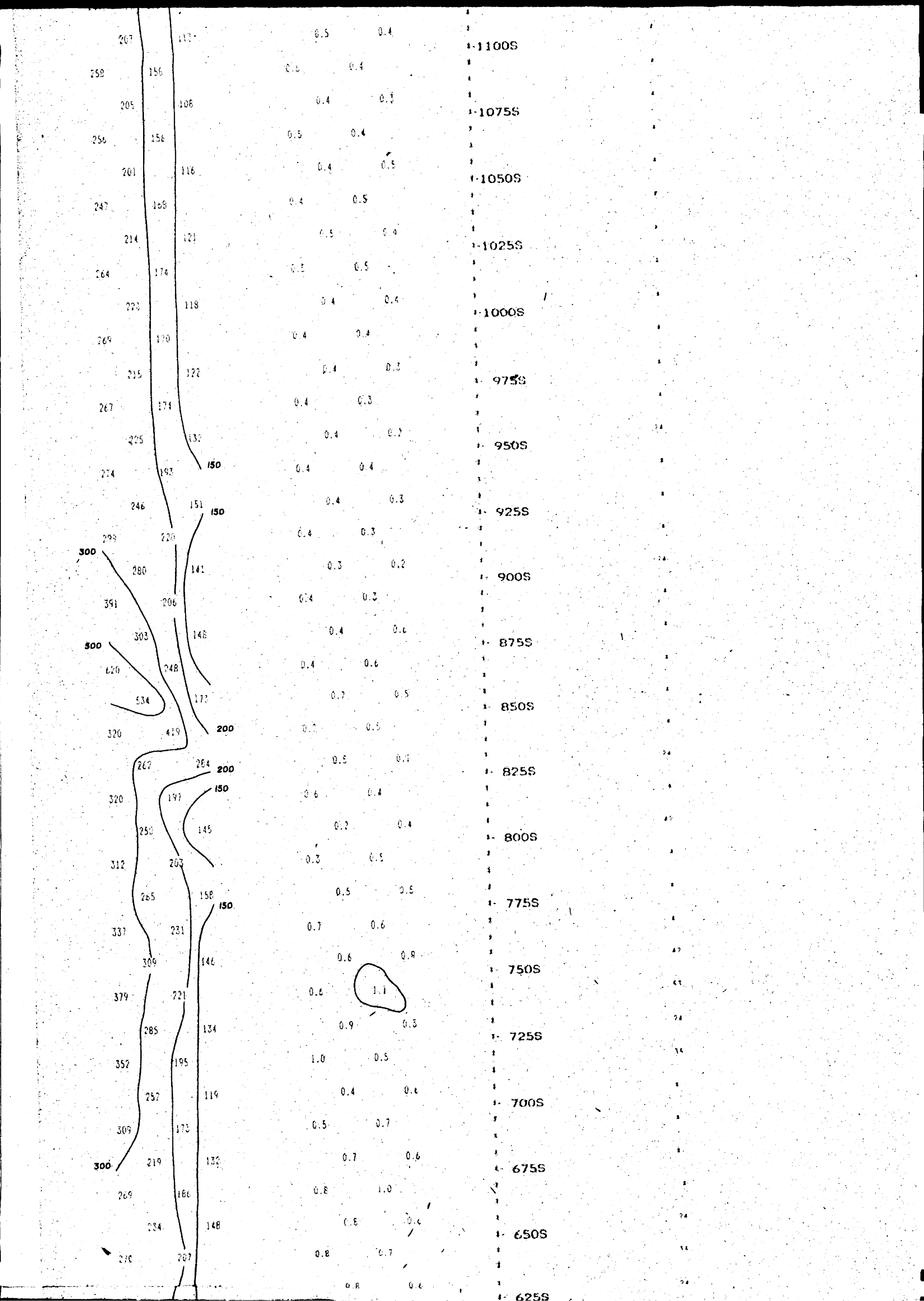
IP Pseudosections for N = 2 to 5

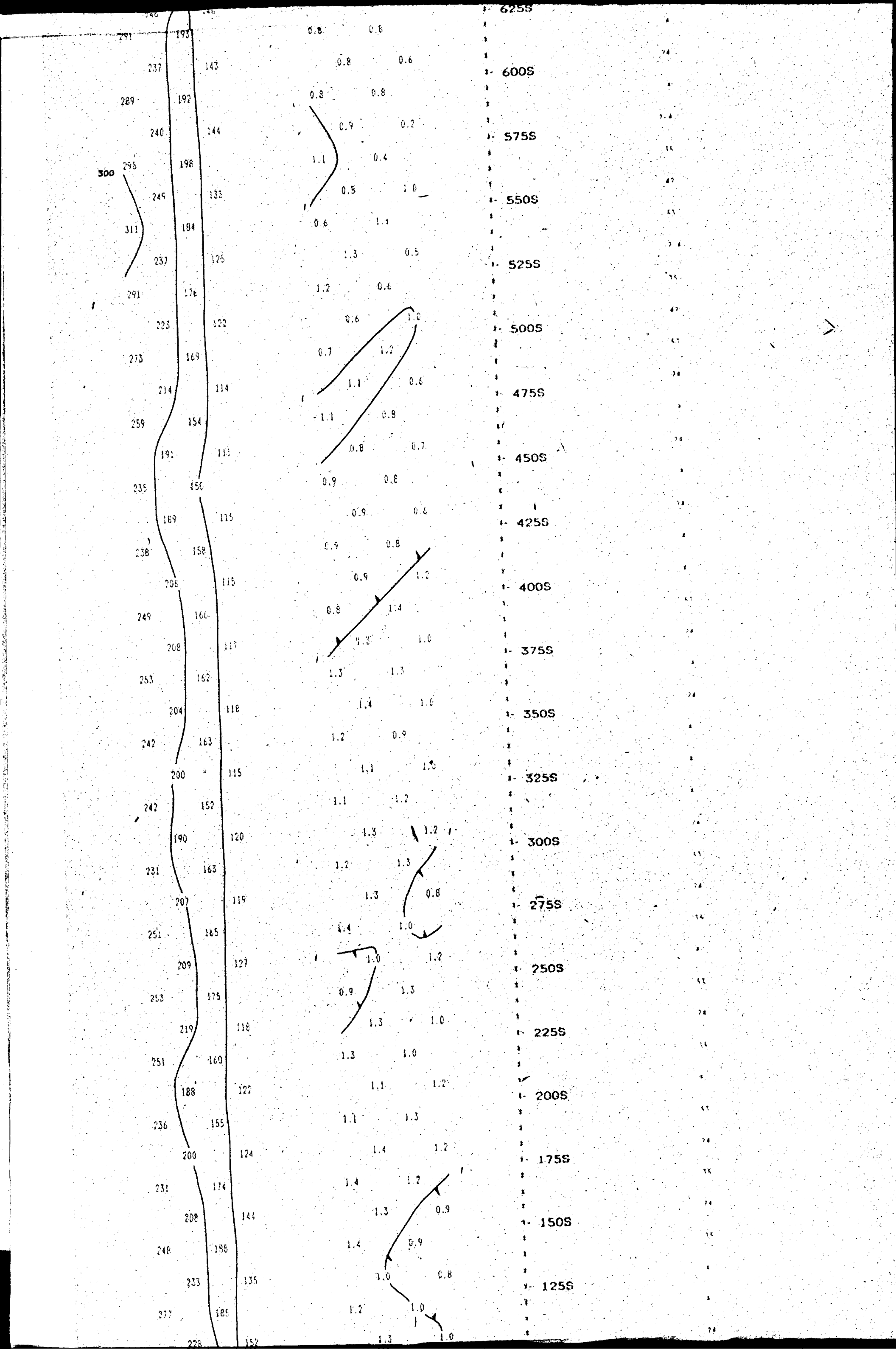
'a' Spacing = 25 M

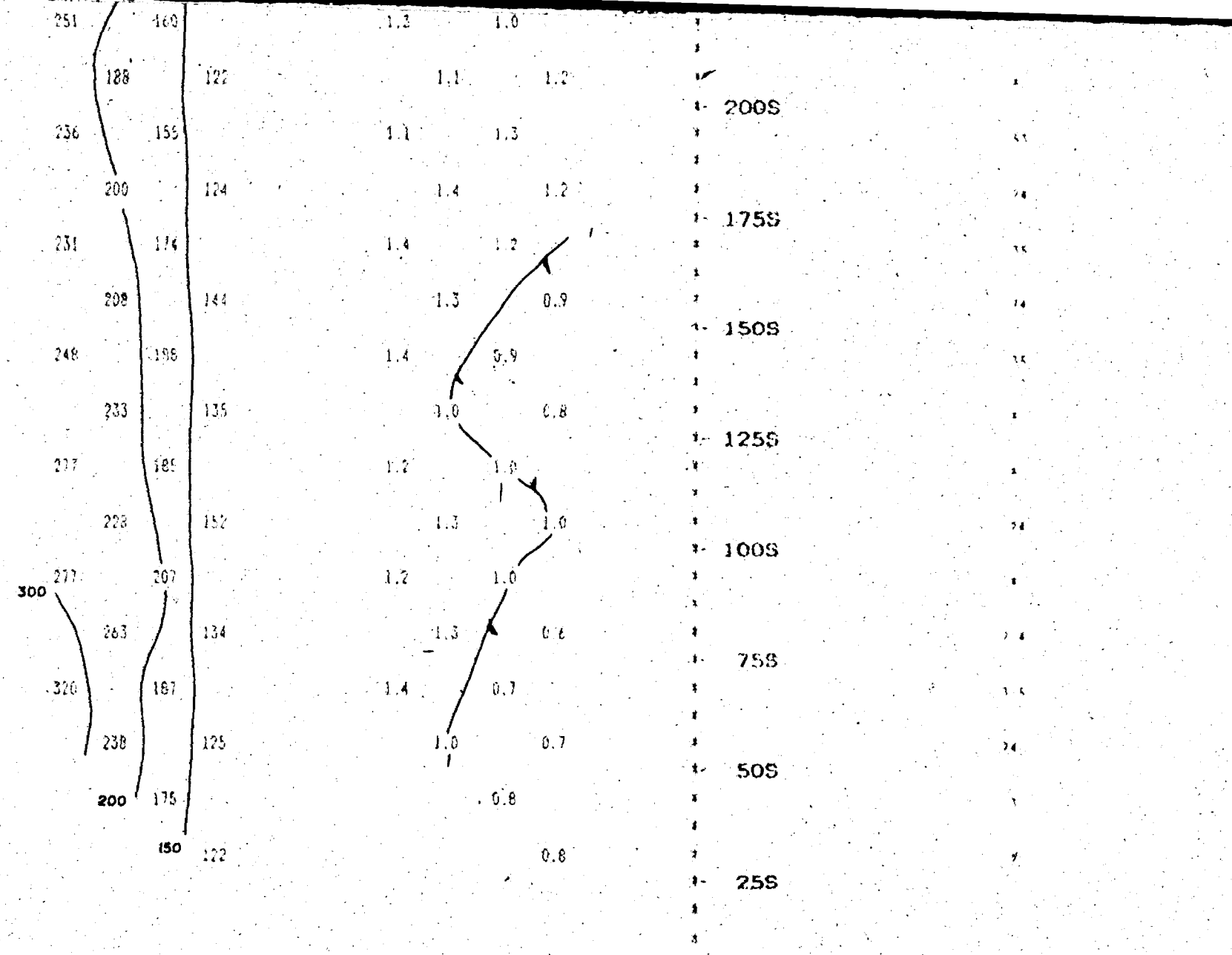
LINE 28 W

SCALE : 1:1250


RESISTIVITY
(ohm - metres)
CHARGEABILITY
(milliseconds)
CHARGEABILITY PROFILE
N 4
N 2
N 5
N 3
-10
-5
0
5
10
15
20
1475S
1450S
1425S
1400S
1375S
1350S
1325S
1300S
1275S
1250S
1225S
1200S
1175S
1150S
1125S
1100S


1100S
1075S
1050S
1025S
1000S
975S
950S
925S
900S
875S
850S
825S
800S
775S
750S
725S
700S
675S
650S
625S
300
200
150


625S
600S
575S
550S
525S
500S
475S
450S
425S
400S
375S
350S
325S
300S
275S
250S
225S
200S
175S
150S
125S



Property : ST LAURENT TWP

Client : TARZAN GOLD INC.

Date of Survey : 25/4/88

Operator : TAA

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

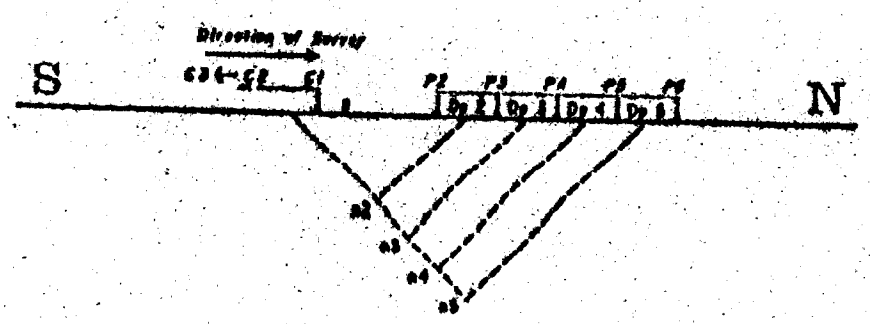
Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Chargeability Window Plotted : #7

Delay Time : 450 ms

Integration Time : 900 ms



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R. S. MIDDLETON EXPLORATION SERVICES INC.

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IP Pseudosections for N = 2 to 5

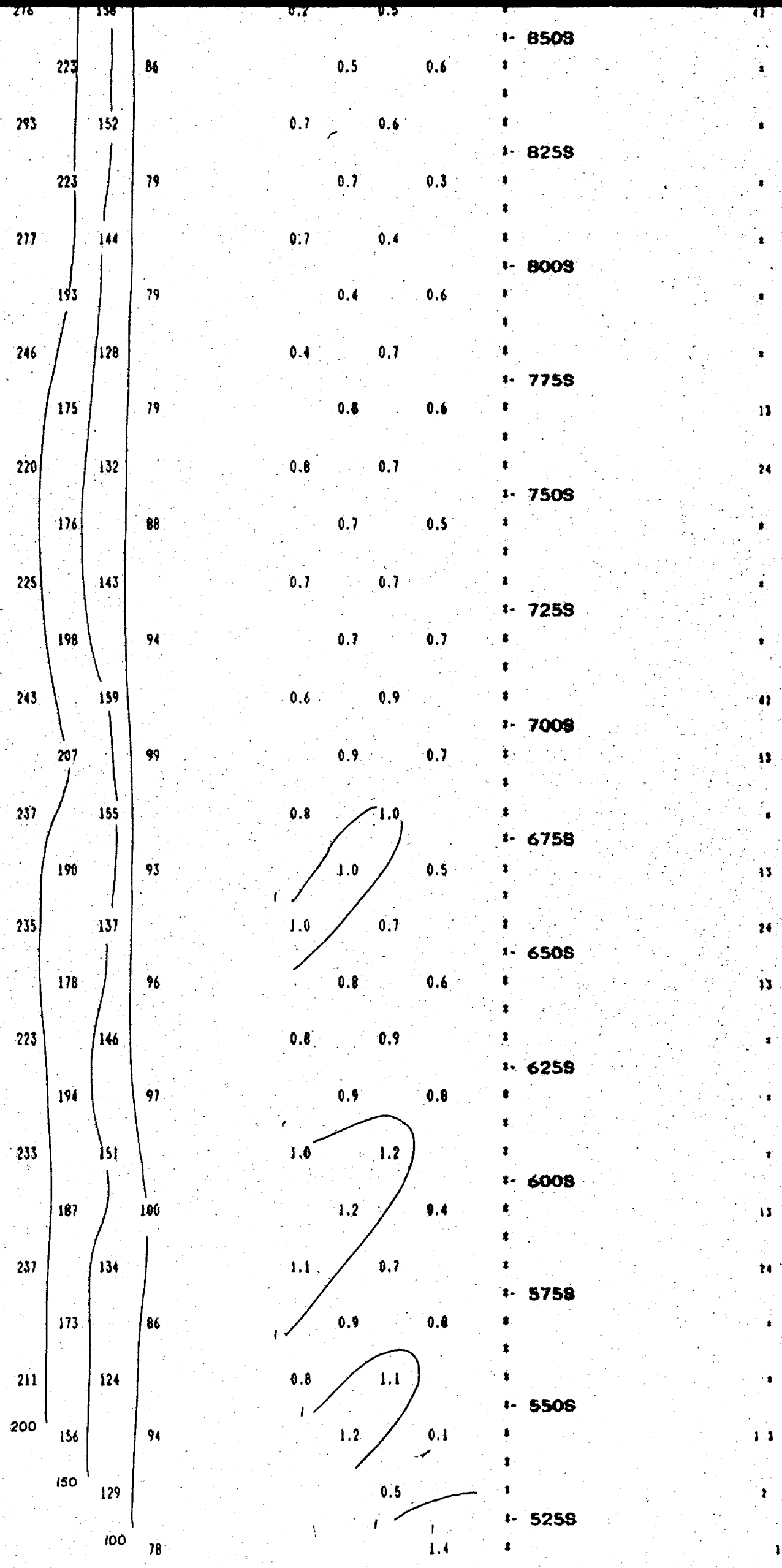
'a' Spacing = 25 M

LINE 29 W

SCALE : 1:1250

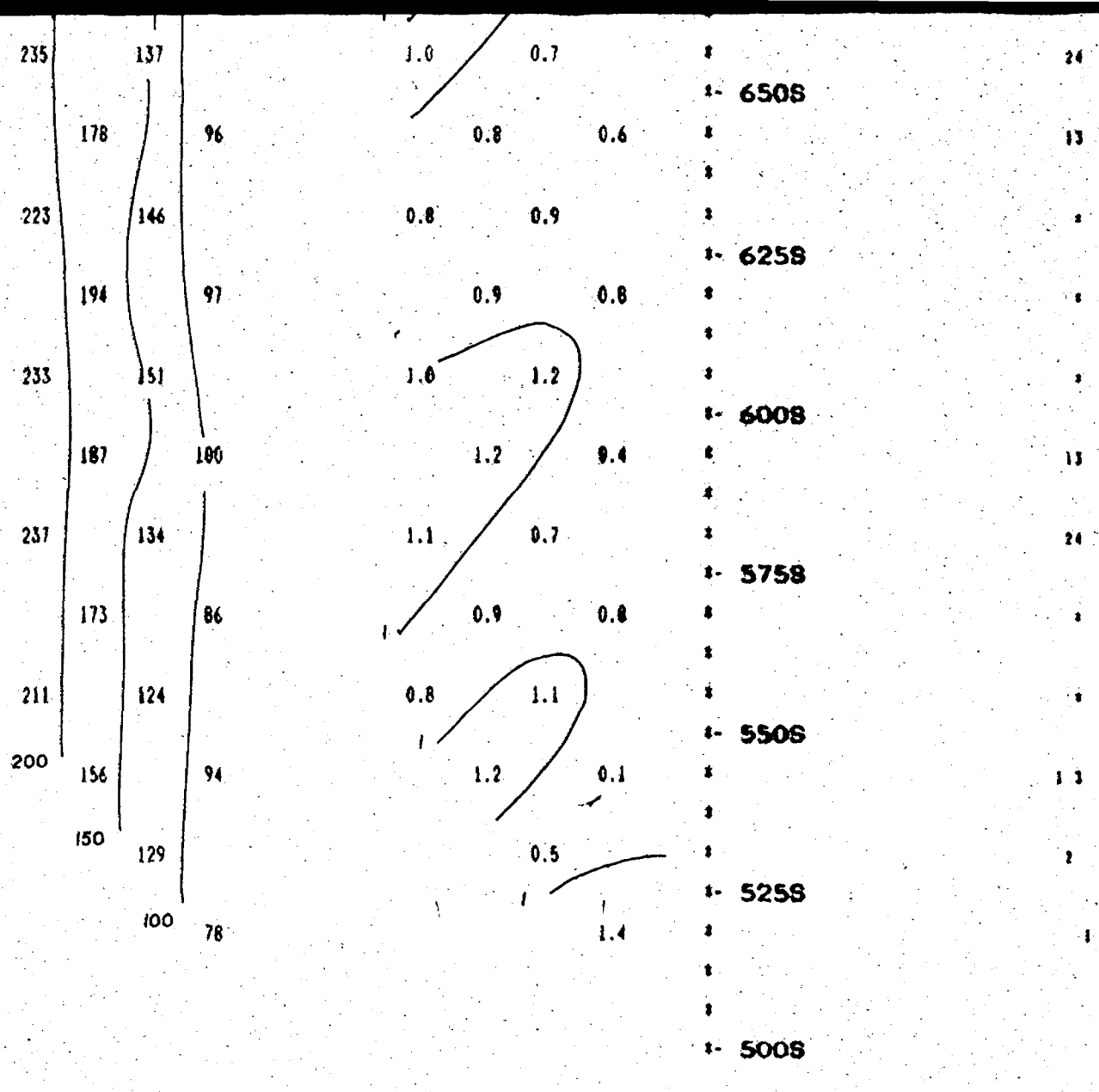
FRASER FILTER

Station	RESISTIVITY (ohm - metres) N 4	N 3	N 2	N 1	CHARGEABILITY (milliseconds) N 4	N 3	N 2	N 1	CHARGEABILITY PROFILE (-10 -5 0 5 10 15 20) FRASER FILTER A B
1150S									
	181	150			0.5				4
1125S									
		145				0.7			3
	184		113	100	0.6		0.7		
1100S									
		153		71		0.6		0.6	
	193		117		0.6		0.6		
1075S									
	200	158		74		0.7		0.6	
	201		121		0.6		0.6		
1050S									
		163		74		0.6		0.6	
	205		122		1.0		0.7		24
1025S									
		165		74		0.5		0.7	
	210		124		0.6		0.6		
1000S									
		170		79		0.7		0.2	13
	212		136		0.7		0.4		
975S									
		183		88		0.4		0.2	13
	226		151		0.4		0.4		
950S									
		200		93		0.3		0.0	13
	246		156		0.4		0.1		24
925S									
		207		98		0.1		0.4	31
	247		166		0.2		0.5		42
900S									
		212		98		0.4		0.1	13
	265		157		0.5		0.2		24
875S									
		214		91		0.2		0.4	31



Property : CHIMP ST LAURENT TWP.

Client : TARZAN GOLD INC.



Property : CHIMP ST LAURENT TWP.

Client : TARZAN GOLD INC.

Date of Survey : 5/5/88

Operator : TAA

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

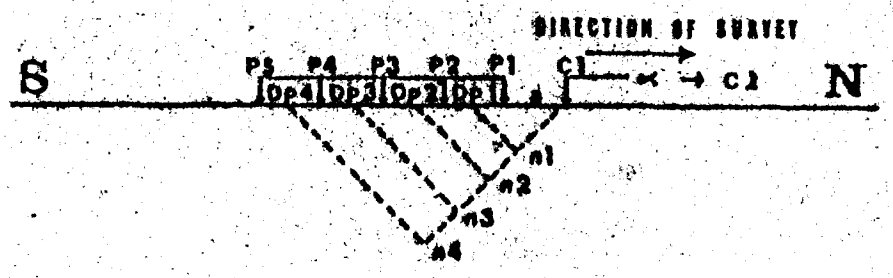
Transmitter : SCINTREX TBQ-3

Pulse Time : 2 Sec on 2 Sec off

Chargeability Window Plotted : #7

Delay Time : 450 ms

Integration Time : 900 ms



****

R. S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 30 W

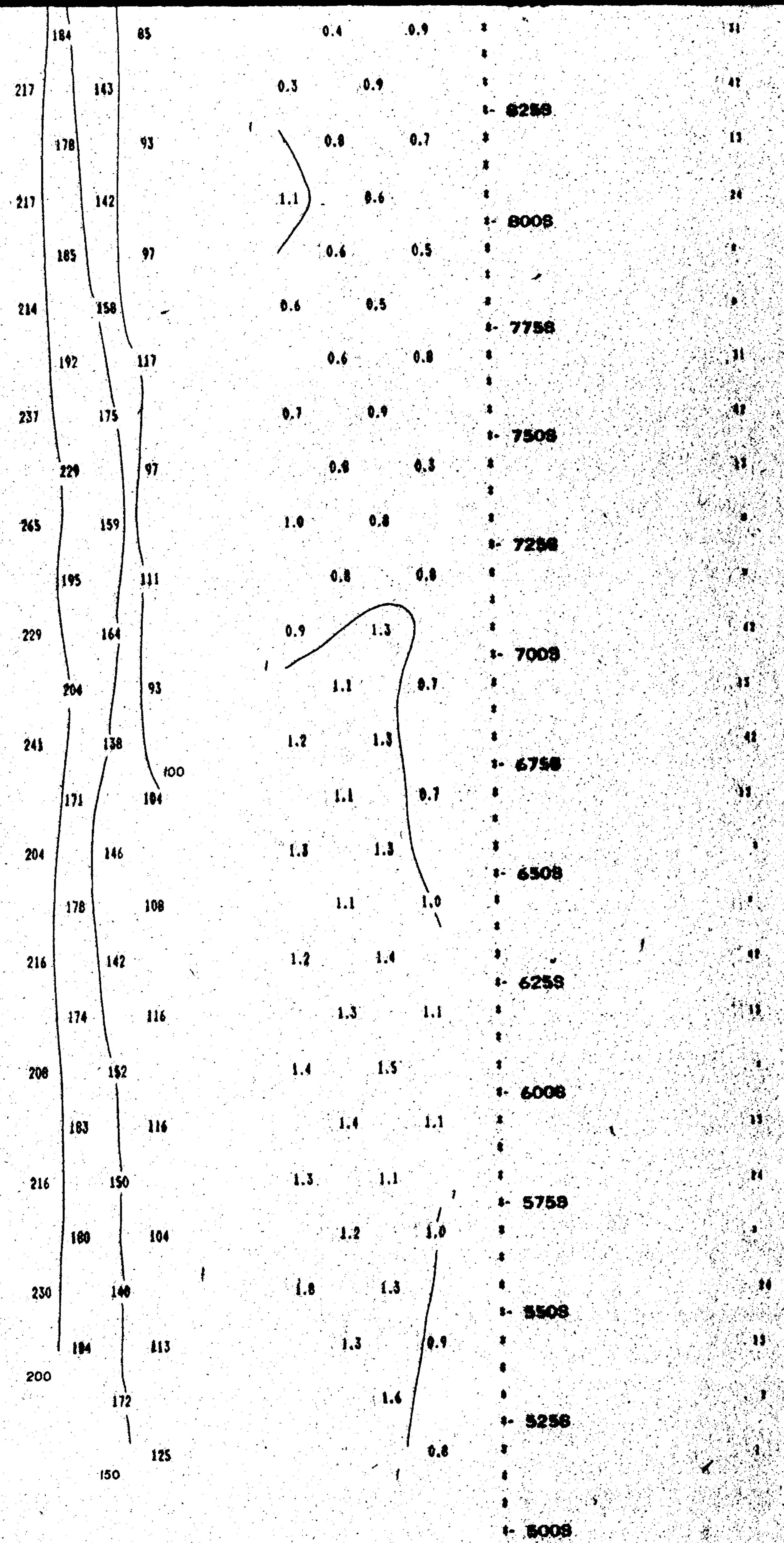
SCALE : 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

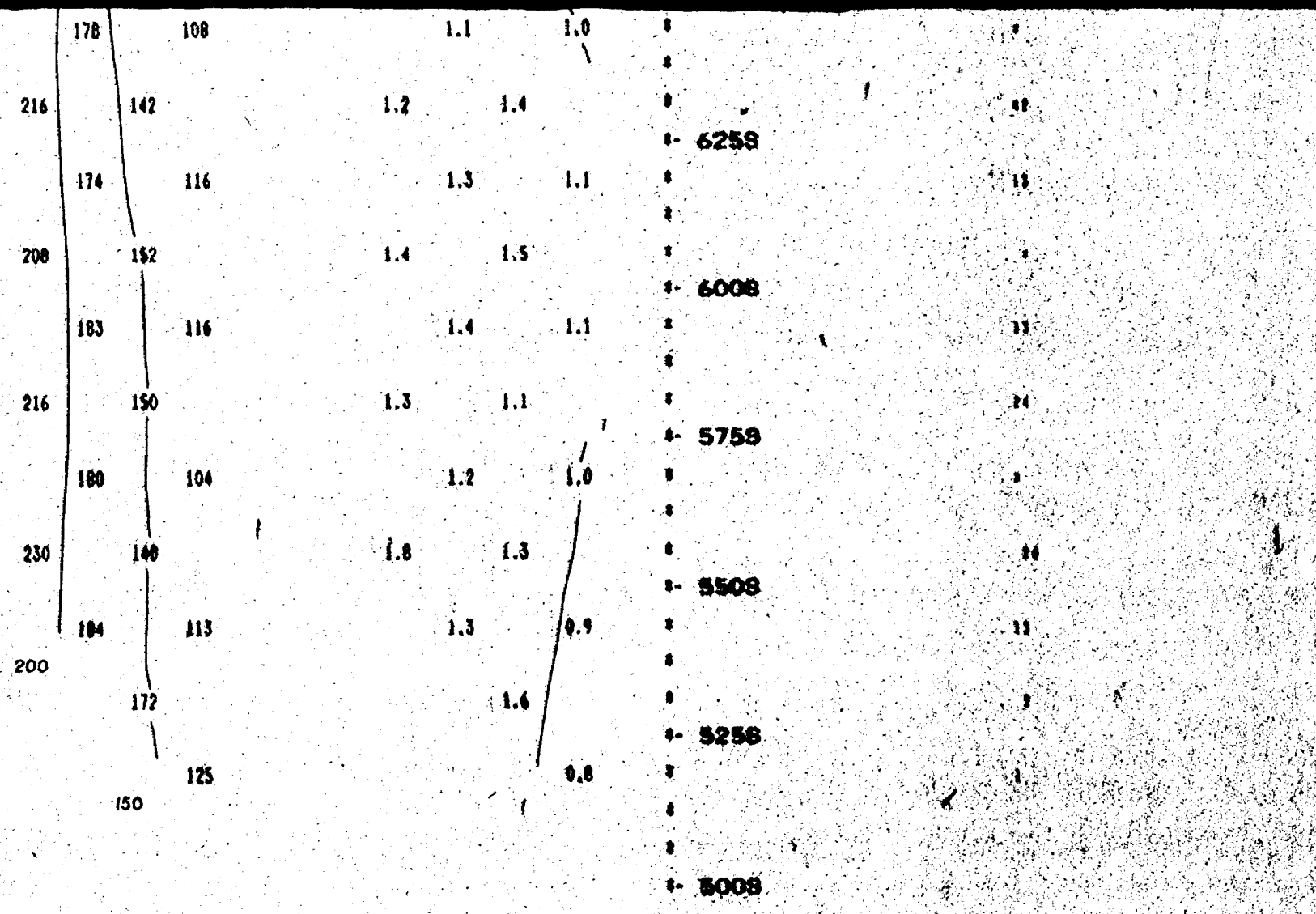
CHARGEABILITY PROFILE

N 3	N 1	N 3	N 1	
N 4	N 2	N 4	N 2	-10 -5 0 5 10 15 20
				-11508
187	150	0.5		4
				-11258
	139	0.6		3
	100			
184	98 70	0.8 0.5		24
				-11008
	140 57	0.6 0.5		8
178	100	0.6 0.7		8
				-10758
	138 60	0.7 0.7		14
186	98	0.2 0.7		42
				-10508
	143 54	0.5 0.5		8
188	94	0.6 0.6		9
				-10258
	135 59	0.7 0.4		9
174	103	0.7 0.5		9
				-10008
	144 63	0.7 0.4		9
184	107	0.7 0.6		9
				- 9758
	147 63	0.5 0.7		9
190	105	0.5 0.7		9
				- 9508
	147 71	0.6 0.4		9
186	126	0.7 0.5		9
				- 9258
200	172 71	0.5 0.4		9
223	120	0.5 0.4		9
				- 9008
	170 74	0.5 0.2		13
209	131	0.5 0.4		9
				- 8758
	173 86	0.4 0.1		13
215	130	0.1 0.2		9
				- 8508



Property : CHIMP ST LAURENT TWP.

Client : TARZAN GOLD INC.



Property : CHIMO ST LAURENT TWP.

Client : TARZAN GOLD INC.

Date of Survey : 5/5/88

Operator : TAA

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

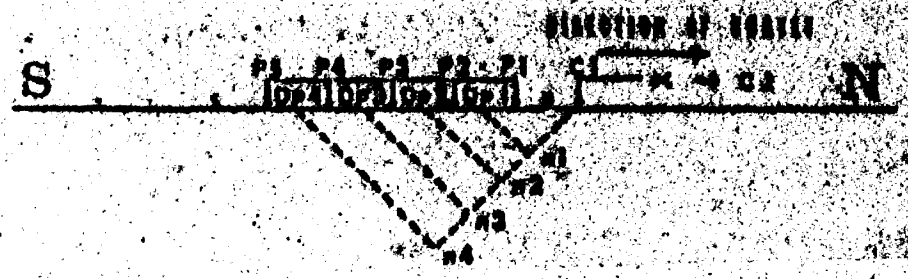
Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Chargeability Window Plotted : #7

Delay Time : 450 ms

Integration Time : 900 ms



****

R. S. MIDDLETON EXPLORATION

SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 31 W

SCALE = 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

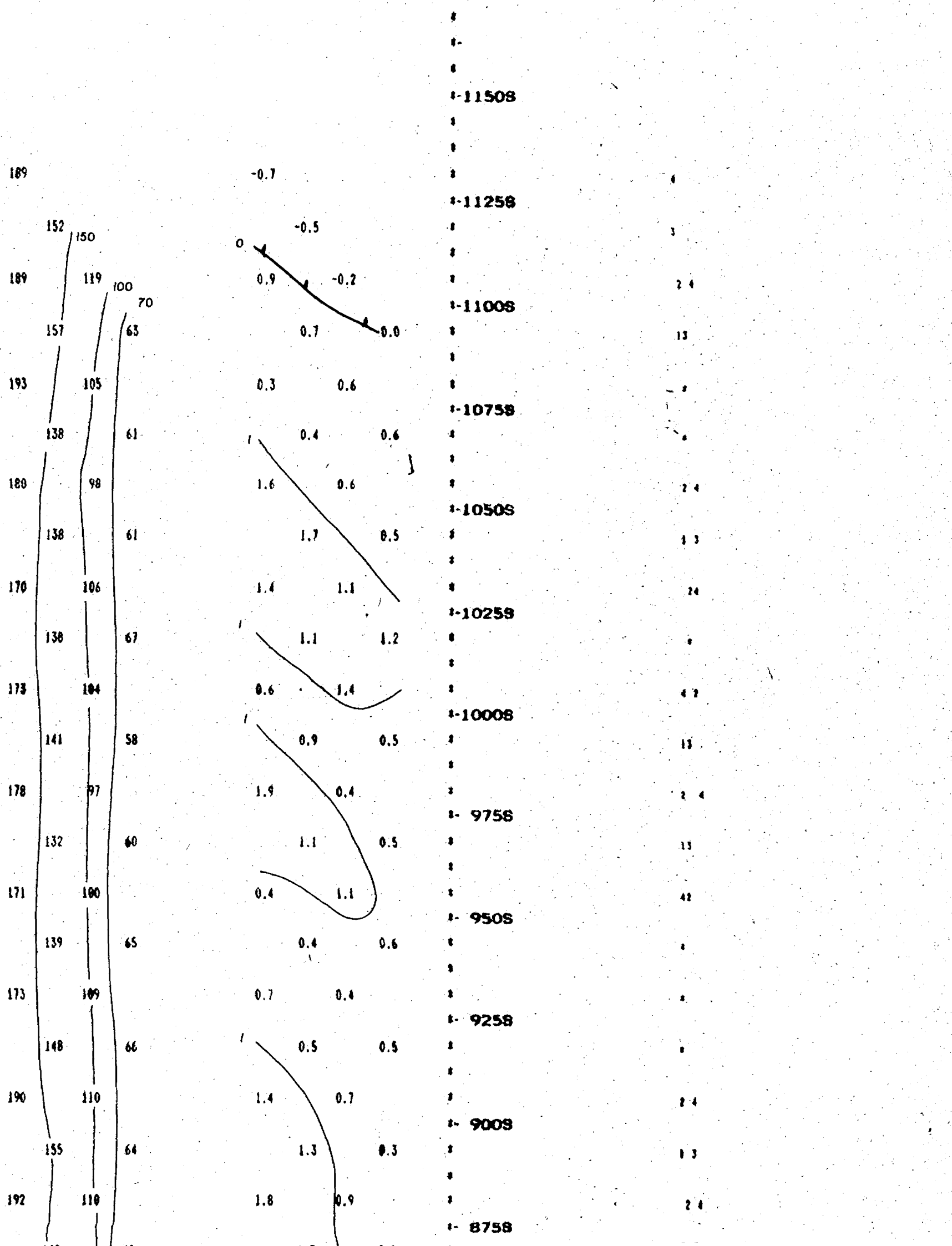
FRASER FILTER

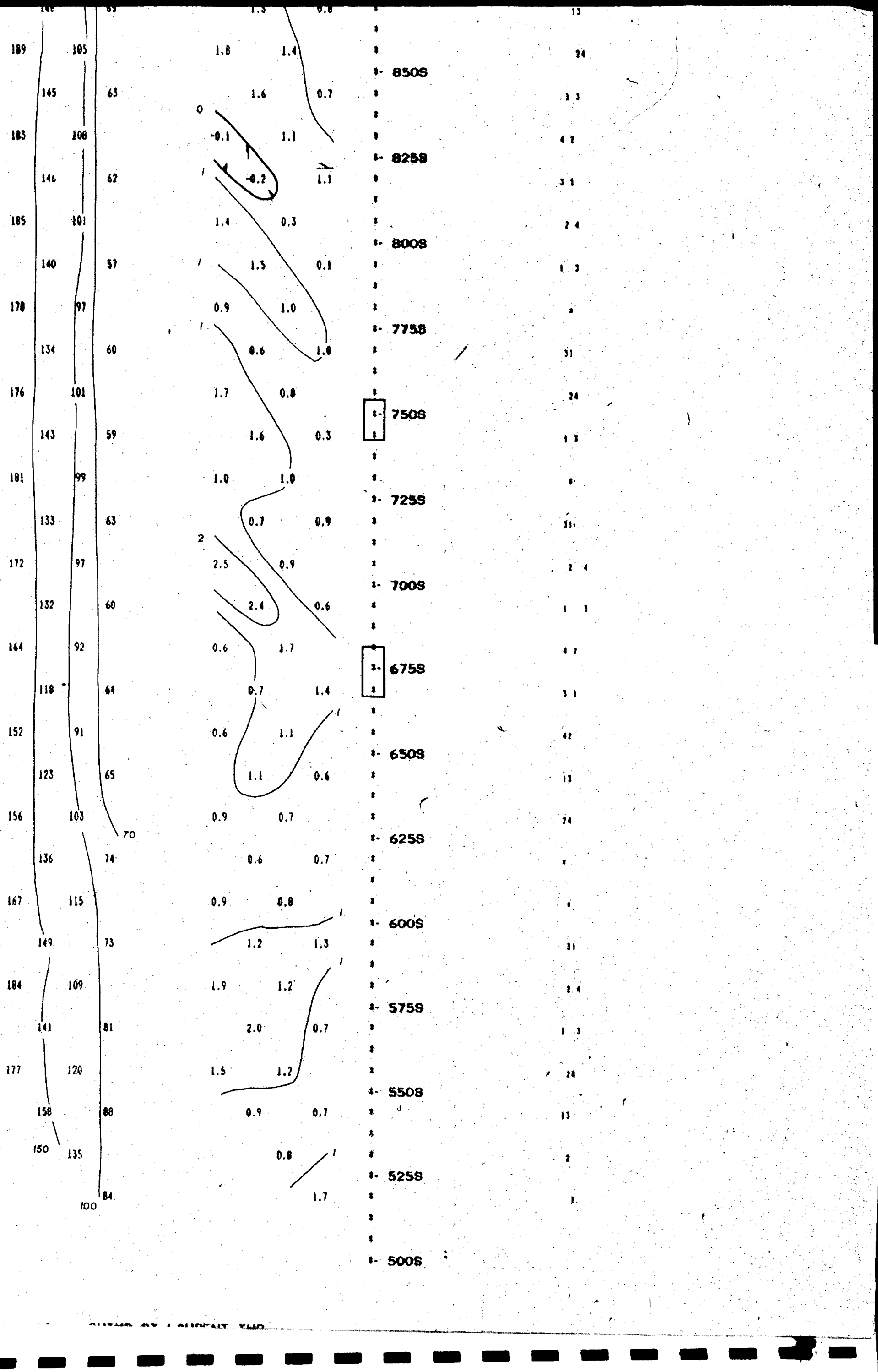
N 3 N 1

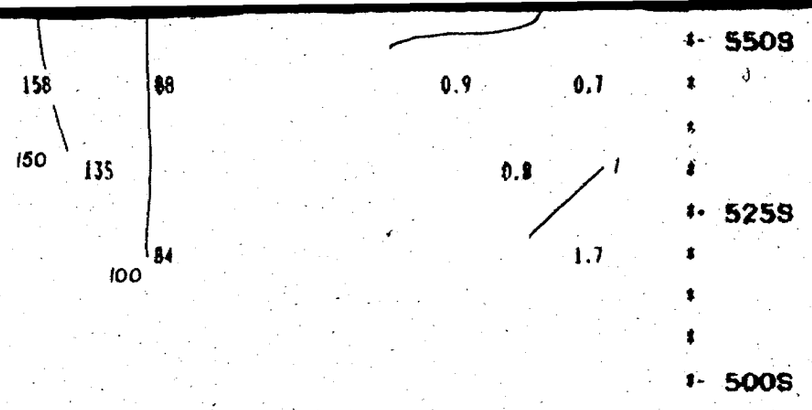
N 4 N 2

A B

-10 -5 0 5 10 15 20




850S
825S
800S
775S
750S
725S
700S
675S
650S
625S
600S
575S
550S
525S
500S



Property : CHIMP ST LAURENT TWP.

Client : TARZAN GOLD INC.

Date of Survey : 6/5/88

Operator : TAA

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

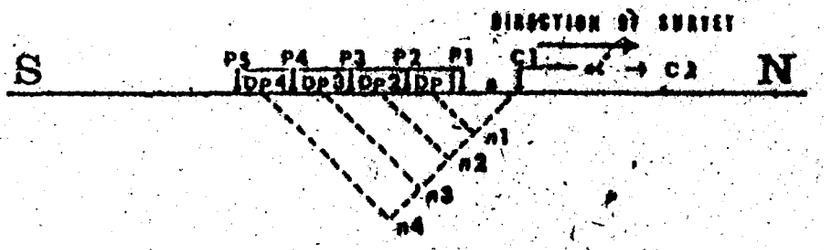
Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Chargeability Window Plotted : #7

Delay Time : 450 ms

Integration Time : 900 ms



****

R. S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 32 W

SCALE = 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

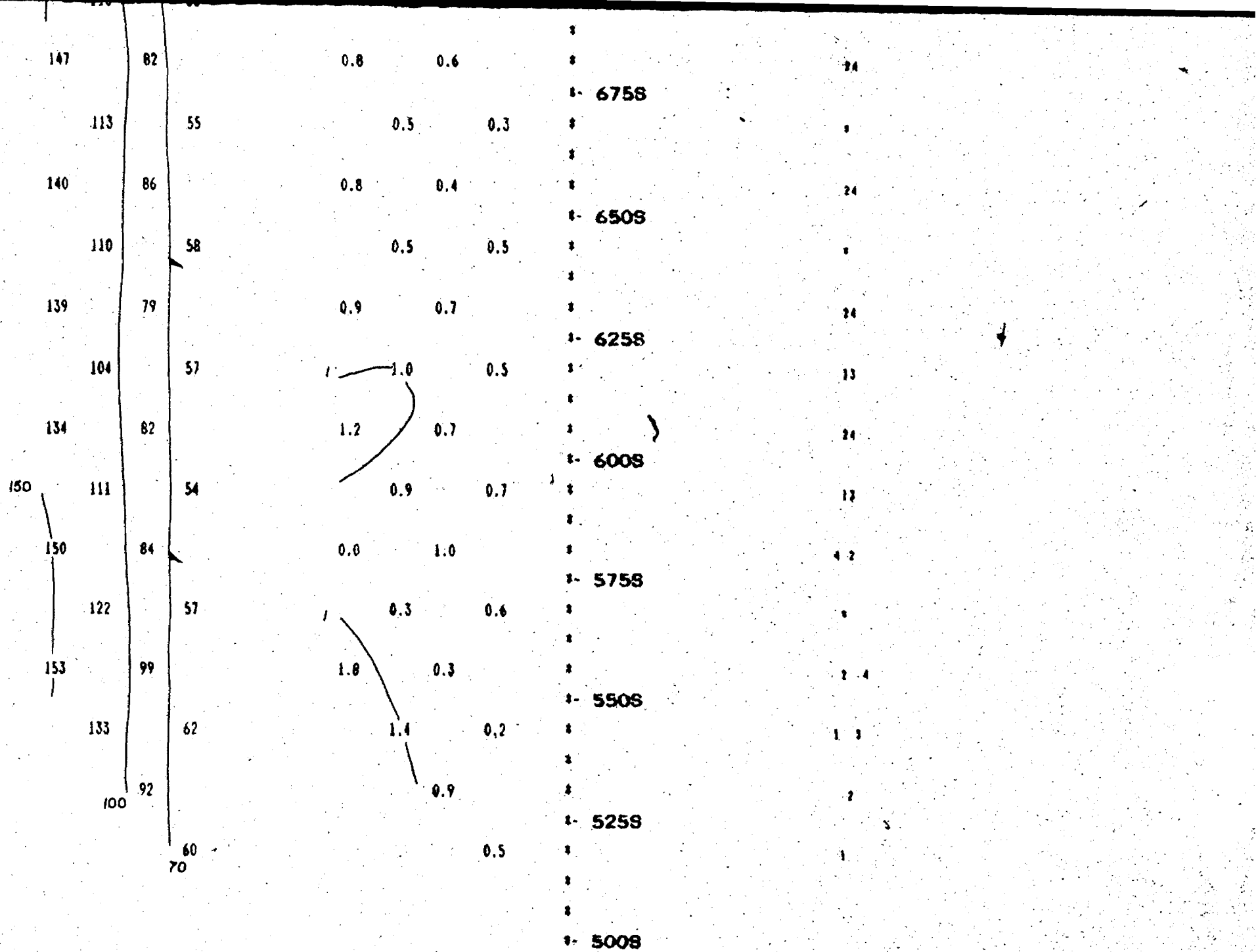
FRASER FILTER

N 3 N 1 N 4 N 2

-10 -5 0 5 10 15 20

RESISTIVITY			CHARGEABILITY			
			N 3	N 1		
N 4	N 2					
					1150S	
182	160		0.4			4
	137	100			1125S	
			0.7			3
180		90 70	0.5	0.7		
					1100S	
	127	52	0.8	0.6		13
163		87	0.4	0.7		
					1075S	
	119	55	-0.1	1.0		3 1
149		89	0.4	0.7		
					1050S	
	118	56	0.6	0.5		
151		87	0.4	0.7		
					1025S	
	119	55	0.6	0.4		
148		89	0.8	0.3		24
					1000S	
	118	59	0.8	0.3		13
150		94	0.7	0.4		
					975S	
	129	63	0.4	0.8		31
159		103	0.7	0.9		42
					950S	
	136	66	1.1	0.0		1 3
170		103	1.2	0.3		24
					925S	
	137	66	0.2	0.6		31

163	106		0.7	0.8			42
						900S	
	131	73		1.0	0.8		6
158	107		0.7	1.0			42
						875S	
	136	71		0.7	0.4		6
163	107		0.4	0.4			6
						850S	
	135	72		0.3	0.8		31
		70					
163	107		1.2	0.7			24
						825S	
	137	68		1.5	0.4		1 3
167	101		0.2	1.0			4 2
						800S	
	130	66		0.2	0.7		31
160	97		0.2	0.3			42
						775S	
	126	61		0.4	0.4		6
153	91		0.2	0.5			42
						750S	
	113	69		0.3	0.5		6
145	93		0.9	0.4			24
						725S	
	124	60		0.8	0.7		13
151	89		0.6	1.0			42
						700S	
	113	58		0.7	0.6		6
147	82		0.8	0.6			24
						675S	
	113	55		0.5	0.3		6
140	86		0.8	0.4			24
						650S	
	110	58		0.5	0.5		6
139	79		0.9	0.7			24
						625S	
	104	57		1.0	0.5		13
134	82		1.2	0.7			24
						600S	
150	111	54		0.9	0.7		13
150	84		0.0	1.0			4 2
						575S	
	122	57		0.3	0.6		6



Property : CHIMP ST LAURENT TWP.

Client : TARZAN GOLD INC.

Date of Survey : 6/5/88

Operator : TAA

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

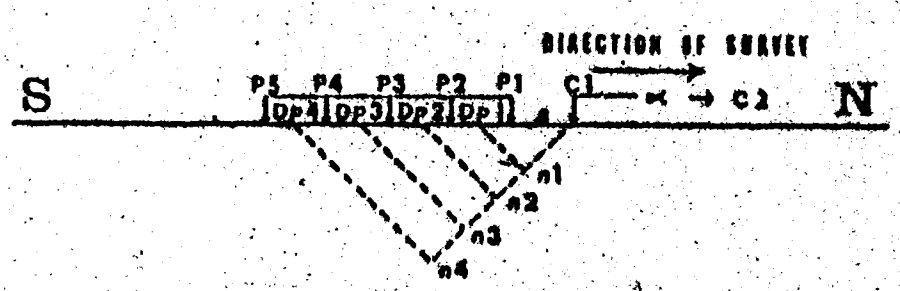
Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Chargeability Window Plotted : #7

Delay Time : 450 ms

Integration Time : 900 ms



****

R. S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 33 W

Ministry of Northern Development and Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

32E05NE0057 2.11253 ST. LAURENT

900

8898.1267

Type of Survey(s): GROUND GEOPHYSICS (I.P.)	Township or Area: ST. LAURENT TWP
Claim Holder(s): GLEN AUDEN RESOURCES LIMITED	Prospector's Licence No.: T 1915
Address: C/O P.O. BOX 1637, 136 CEDAR ST. S, TIMMINS ONT P4N 7W8	
Survey Company: R.S. MIDDLETON EXPLORATION SERVICES INC	Date of Survey (from & to): 13 04 88 (Day Mo. Yr.) 06 05 88 (Day Mo. Yr.)
Name and Address of Author (of Geo-Technical report): D. GREG HODGES C/O P.O BOX 1637 TIMMINS ONT P4N 7W8	Total Miles of line Cut: .

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other (I.P.)	14.90
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

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MINES MINING DIVISION

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.

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	877286	*
	877287	*
	877293	*
	877294	*
	879345	*
	879346	*
	879347	*
	879350	*
	879362	*
	879363	*
	879364	*
	879886	*
	955596	
	955597	
	955598	
	955600	
	955601	
	955602	
	955603	
	955606	
	955607	
	955608	
	955609	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	955610	
	955611	
	955612	
	955613	
	955616	
	955617	
	955618	
	955619	
	Maximum credits already allowed	

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LANDS SECTION

Total number of mining claims covered by this report of work: 37

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
185.3 ZP	June 9/88	M. G. Wenman
	Date Approved as Recorded	Branch Director: see revised work statement

Date	Recorded Holder or Agent (Signature)
June 6/88	Clifford G. Kubisheskie

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: CLIFFORD G. KUBISHESKIE C/O P.O. BOX 1637 TIMMINS, ONT P4N 7W8

Date Certified: June 6/88

Certified by (Signature): Clifford G. Kubisheskie

1362 (85/12)

Ministry of Northern Development and Mines
Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Mining Act

DOCUMENT No. W8808·269.

2.11253

Instructions: – Please type or print. 262 July 29
– 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): GROUND GEOPHYSICS (E.M)	Township or Area: ST. LAURENT TWP
Claim Holder(s): *NORANDA EXPLORATION COMPANY LIMITED / GLEN AUDEN RESOURCES LIMITED	Prospector's Licence No.: T1915
Address: c/o P.O. BOX 1637, 136 CEDAR ST. S., TIMMINS ONT. P4N 7W8	
Survey Company: R.S. MIDDLETON EXPLORATION SERVICES INC	Date of Survey (from & to): 01 / 04 / 88 – 17 / 04 / 88 (Day / Mo. / Yr.) — Total Miles of line Cut:
Name and Address of Author (of Geo-Technical report):	

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	20
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

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Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

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.

Mining Claims Traversed (List in numerical sequence)

Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
L	~~879374~~		L	955625	
	~~879375~~			955626	
	879376			955627	
	879377			955628	
				955629	
	955588			955630	
	955589				
	955590			*876982	
	955591			*876983	
	955596				
	955597				
	955598				
	955599				
				Maximum credits	
	955616			already allowed.	
	955617				
	955618				
	955619			RECEIVED	
	955620			JUN 27 1988	
	955621				
	955622			LANDS SECTION	
	955623				

Total number of mining claims covered by this report of work: ~~28~~ 24 Z.P.

For Office Use Only		
Total Days Cr. Recorded: 480 Z.P.	Date Recorded: June 9/88	Mining Recorder: [signature]
	Date Approved as Recorded:	Branch Director: See revised work statement.

Date: June 6/88 — Recorded Holder or Agent (Signature): [signature] Kubisheskie

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: CLIFFORD G. KUBISHESKIE c/o PO BOX 1637 TIMMINS ONT P4N 7W8

Date Certified: June 6/88 — Certified by (Signature): [signature] Kubisheskie

1362 (85/12)

Ministry of Northern Development and Mines
Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Mining Act

DOCUMENT No. 08·267

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)	Township or Area
GROUND GEOPHYSICS (I.P.)	ST. LAURENT TWP

Claim Holder(s)	Prospector's Licence No.
GLEN AUDEN RESOURCES LIMITED	T 1915

Address: C/O P.O. BOX 1637, 136 CEDAR ST. S, TIMMINS ONT P4N 7W8

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
R.S. MIDDLETON EXPLORATION SERVICES INC	13 04 88 / 06 05 88 (Day Mo. Yr. / Day Mo. Yr.)	

Name and Address of Author (of Geo-Technical report): D. GREG HODGES C/O P.O BOX 1637 TIMMINS ONT P4N 7W8

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other (I.P.)	14.90
	Geological	
	Geochemical	

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JUN 9 1988
10.30am

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures		Total Days Credits
$	÷ 15 =	

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.

Mining Claims Traversed (List in numerical sequence)

Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
L	877286	*	L	955610	✓
	877287	*		955611	✓
	877293	*		955612	✓
	877294	*		955613	✓
	879345	*		955616	✓
	879346	*		955617	✓
	879347	*		955618	✓
	879350	*		955619	✓
	879362	*			
	879363	*		Maximum credits	
	879364	*		already allowed	
	879886	*			
	955596	0			
	955597	✓			
	955598	✓			
	955600	✓			
	955601	✓			
	955602	✓			
	955603	✓			
	955606	✓			
	955607	✓			
	955608	✓			
	955609	✓			

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JUN 27 1988
LANDS SECTION

Total number of mining claims covered by this report of work: 31 / 19

For Office Use Only		
Total Days Cr. Recorded: 185.3	Date Recorded: June 9/88	Mining Recorder: M. G. Wenson
	Date Approved as Recorded	Branch Director

Date	Recorded Holder or Agent (Signature)
June 6/88	Clifford G Kubisheskie

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
CLIFFORD G. KUBISHESKIE C/O P.O. BOX 1637
TIMMINS, ONT P4N 7W8

Date Certified	Certified by (Signature)
June 6/88	Clifford G Kubisheskie

1362 (85/12)

Ministry of Northern Development and Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Mining Act

DOCUMENT No. 88.267

262 July 29

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: GROUND GEOPHYSICS (I.P.) 2.11253

Township or Area: ST. LAURENT TWP

Claim Holder(s): GLEN AUDEN RESOURCES LIMITED

Prospector's Licence No.: 901915

Address: c/o P.O. Box 1637, 136 CEDAR ST. S, TIMMINS ONT P4N 7W8

NEW WORK

Survey Company: R.S. MIDDLETON EXPLORATION SERVICES INC

Date of Survey (from & to): 13 04 88 (Day | Mo. | Yr.) 06 05 88 (Day | Mo. | Yr.)

Total Miles of line Cut:

Name and Address of Author (of Geo-Technical report): D. GREG HODGES c/o P.O Box 1637 TIMMINS ONT P4N 7W8

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	· Electromagnetic	
	· Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	· Radiometric	
	· Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	· Electromagnetic	
	· Magnetometer	
	· Radiometric	
	· Other (I.P.)	14.90
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

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SUDBURY LAKE MINING DIVISION
JUN 9 1988
10.30am

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	877286	X
	877287	X
	877293	X
	877294	X
	879345	X
	879346	X
	879347	X
	879350	X
	879362	X
	879363	X
	879364	X
	879886	X
	955596	0
	955597	✓
	955598	✓
	955600 - ass.	
	955601 - ass.	
	955602 - ass.	
	955603 - ass.	
	955606 - ass.	
	955607 - ass.	
	955608 - ass.	
	955609 - ass.	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	955610 - ass.	
	955611 - ass.	
	955612 - ass.	
	955613 - ass.	
	955616	✓
	955617	✓
	955618	✓
	955619	✓
	Maximum credits	
	already allowed	

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JUN 27 1988
LANDS SECTION

Total number of mining claims covered by this report of work: 17

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: June 6/88

Recorded Holder or Agent (Signature): Clifford G. Kubisheskie

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
185.3 ZP	June 9/88	M. C. Wenman
	Date Approved as Recorded	Branch Director

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: CLIFFORD G. KUBISHESKIE c/o P.O. Box 1637 TIMMINS, ONT P4N 7W8

Date Certified: June 6/88

Certified by (Signature): Clifford G. Kubisheskie

1382 (85/12)

Ministry of Northern Development and Mines
Ontario

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

DOCUMENT No. W8808.161

May 26

2.11253 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): GROUND GEOPHYSICAL (INDUCED POLARIZATION)
Township or Area: ST. LAURENT TWP.
Claim Holder(s): Noranda Exploration Company Limited / GLEN HUDEN RESOURCES LIMITED
Prospector's Licence No.: A34397 T-1915
Address: P.O. Box 1637, 136 CEDAR ST. S. TIMMINS, ONTARIO P4N 7W8
Survey Company: ROBERT S. MIDDLETON EXPLORATION SERVICES
Date of Survey (from & to): 20 03 88 (Day, Mo., Yr.) to 31 03 88
Total Miles of line Cut:
Name and Address of Author (of Geo-Technical report): D. GREG HODGES P.O. Box 1637 TIMMINS ONT P4N 7W8

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other (I.P.)	13.25
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

RECEIVED APR 22 1988 MINING LANDS SECTION

RECEIVED LARDER LAKE MINING DIVISION APR 6 1988

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.

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	876982	
	876983	
	879378	
	879379	
	879932	
	879933	
	955600	
	955601	
	955602	
	955603	
	955606	
	955607	
	955608	
	955609	
	955610	
	955611	
	955612	
	955613	
	955620	
	955621	
	955622	
	955623	
	955625	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	955626	
	955627	
	955628	
	955629	
	955630	

Total number of mining claims covered by this report of work: 28

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
371	April 6/88	for
	Date Approved as Recorded	Branch Director
	5th July 88 p.m.	

Date: April 4/88
Recorded Holder or Agent (Signature): Clifford G. Kubisheskie

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: CLIFFORD G. KUBISHESKIE P.O. Box 1637, 136 CEDAR ST. S. TIMMINS ONTARIO P4N 7W8
Date Certified: April 4/88
Certified by (Signature): Clifford G. Kubisheskie

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
INDUCED POLARIZATION	53	X 7 =	371	+ —	=	371	+	28	=	13.25
		X 7 =		+	=		+		=	
		X 7 =		+	=		+		=	
		X 7 =		+	=		+		=	

Ministry of Northern Development and Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Mining Act

DOCUMENT No. W8808·163

2.11253

May 26

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): GROUND GEOPHYSICAL	Township or Area: ST. LAURENT TWP.
Claim Holder(s): NORANDA EXPLORATION COMPANY LIMITED / GLEN AUDEN RESOURCES LIMITED	Prospector's Licence No.: A34387 / T-1915
Address: P.O. BOX 1637, 136 CEDAR ST. S. TIMMINS ONT. P4N 7W8	
Survey Company: ROBERT S. MIDDLETON EXPLORATION SERVICES	Date of Survey (from & to): 12 03 88 – 25 03 88 (Day Mo. Yr.)
Total Miles of line Cut: 95.1 Km	
Name and Address of Author (of Geo-Technical report): D.G. HODGES PO BOX 1637 TIMMINS ONT P4N 7W8	

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	40
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	*credits as listed
	- Other	
	Geological	
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

RECEIVED APR 22 1988 MINING LANDS SECTION

RECEIVED APR 6 1988 10:00 am

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.

Mining Claims Traversed (List in numerical sequence)

Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
PLEASE REFER TO					
	SCHEDULE "A"				

Total number of mining claims covered by this report of work: ~~56~~ 40

For Office Use Only		
Total Days Cr. Recorded: 1453.5	Date Recorded: April 6/88	Mining Recorder: For [signature]
	Date Approved as Recorded: See Reverse	Branch Director: Statement

Date: April 4/88 — Recorded Holder or Agent (Signature): [signature]

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: CLIFFORD G. KUBISHESKIE, P.O. BOX 1637, 136 CEDAR ST. S. TIMMINS, ONTARIO P4N 7W8

Date Certified: APRIL 4, 1988 — Certified by (Signature): [signature]

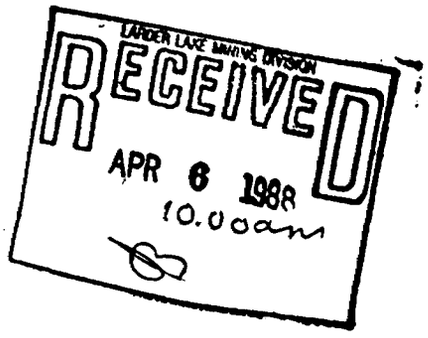
1362 (85/12)

SCHEDULE "A"

L 876982 6 3/4
876983 6 3/4
~~877286~~
~~877287~~
~~877293~~
~~877294~~
~~879345~~ no credits
~~879346~~
~~879347~~ 80 days already recorded under Geophysical.
~~879350~~
~~879362~~
~~879363~~
~~879364~~
879374 20
879375 20
~~879378~~
~~879379~~
~~879886~~
~~879932~~
~~879933~~

L 879936 20
879937 20
955588 40
955589 40
955590 40
955591 40
955596 40
955597 40
955598 40
955599 40
955600 40
955601 40
955602 40
955603 40
955606 40
955607 40
955608 40
955609 40
955610 40
955611 40

L 955612 40
955613 40
955616 40
955617 40
955618 40
955619 40
955620 40
955621 40
955622 40
955623 40
955625 40
955626 40
955627 40
955628 40
955629 40
955630 40



Ministry of Northern Development and Mines
Ontario

L M

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

DOCUMENT No. W8808.162

May 26

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.

(2.11253

Type of Survey(s)	Township or Area
GROUND GEOPHYSICAL (ELECTROMAGNETIC)	ST. LAURENT TWP
Claim Holder(s)	**Prospector's Licence No.**
GLEN AUDEN RESOURCES LIMITED	T-1915
Address	
P.O. BOX 1637, 136 CEDAR ST. S, TIMMINS ONTARIO P4N 7W8	
Survey Company	**Date of Survey (from & to)** Day / Mo. / Yr. — **Total Miles of line Cut**
ROBERT S. MIDDLETON EXPLORATION SERVICES INC.	12 03 88 — 25 03 88
Name and Address of Author (of Geo-Technical report)	
D. GREG HODGES P.O. BOX 1637 TIMMINS ONT	

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	20 except *
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	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.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

RECEIVED
APR 22 1988
MINING LANDS SECTION

RECEIVED
APR 8 1988
LARDER LAKE MINING DIVISION

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	877286		L	955609	
	877287			955610	
	877293			955611	
	877294			955612	
	879345			955613	
	879346				
	879347				
	879350				
	879362				
	879363				
	879364				
X	879378				
X	879379				
	879886				
X	879932				
X	879933				
	955600				
	955601				
	955602				
	955603				
	955606				
	955607				
	955608				

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.

* apply 6.75 days for this report Now at maximum of 80 days Geophysical.

Total number of mining claims covered by this report of work: 28

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
482	April 6/88	for
	Date Approved as Recorded	Branch Director

Date	Recorded Holder or Agent (Signature)
April 4/88	Clifford G. Kubisheskie

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)
CLIFFORD G KUBISHESKIE P.O. BOX 1637, 136 CEDAR ST S TIMMINS ONTARIO P4N 7W8	APRIL 4/88	Clifford G. Kubisheskie

1362 (85/12)

Ontario

Ministry of Northern Development and Mines

Geophysical-Geological-Geochemical Technical Data Statement

File _____

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) MAGNETIC, ELECTROMAGNETIC, INDUCED POLARISATION

Township or Area ST LAURENT

Claim Holder(s) GLEN ANDER RESOURCES LIMITED

Survey Company ROBERT S. MIDDLETON EXPLORATION SER. INC.

Author of Report GREG HODGES

Address of Author P.O. BOX 1037, TIMMINS ONT P4N 7W8

Covering Dates of Survey 12/03/88 - 30/4/88
(linecutting to office)

Total Miles of Line Cut 92.4 km

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
--Electromagnetic	20
--Magnetometer	40
--Radiometric	
--Other	
Geological	
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: 27/5/88 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications 2.5919

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

LIST ATTACHED
(prefix) (number)

TOTAL CLAIMS 56

If space insufficient, attach list

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations ~3700 Number of Readings ~3700

Station interval 25m Line spacing 100m

Profile scale 1:5000 P-Sections 1:1250

Contour interval 100 nT

MAGNETIC

Instrument EDA PPM-350, PPM40; Omni IV

Accuracy – Scale constant ± 0.1nT

Diurnal correction method Base Station

Base Station check-in interval (hours) 0.0083 (30 Sec)

Base Station location and value On Grid 58000

ELECTROMAGNETIC

Instrument Apex Max Min II

Coil configuration Horizontal Coplanar

Coil separation 150m

Accuracy ± 1%

Method: ☐ Fixed transmitter ☐ Shoot back ☑ In line ☐ Parallel line

Frequency 444 Hz 1777 Hz 3555 Hz
(specify V.L.F. station)

Parameters measured In Phase / Quadrature Components of Secondary Fields

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument Scintrex IPR-11

Method ☑ Time Domain ☐ Frequency Domain

Parameters – On time 2 Sec Frequency

– Off time 2 Sec Range

– Delay time 640 msec

– Integration time 310 msec

Power 3.0 KW

Electrode array Pole-Dipole

Electrode spacing 25m, n=2 To 5

Type of electrode Stainless Steel Current Porous Pots Potential

L 876982	L 879936	L 955612
876983	879937	955613
877286	955588	955616
877287	955589	955617
877293	955590	955618
877294	955591	955619
879345	955596	955620
879346	955597	955621
879347	955598	955622
879350	955599	955623
879362	955600	955625
879363	955601	955626
879364	955602	955627
879374	955603	955628
879375	955606	955629
879378	955607	955630
879379	955608	
879886	955609	
879932	955610	
879933	955611	

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

October 12, 1988

Your file: W8808-267
Our file: 2.11253

Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

Re: Notice of Intent dated September 16, 1988
Geophysical (Induced Polarization) Survey
submitted on Mining Claims L 877286 et al
in the Township of St. Laurent

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W.R. Cowan, Manager
Mining Lands Section
Mines & Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

DK:pl
Enclosure

cc: Mr. G.H. Ferguson
Mining and Lands Commissioner
Toronto, Ontario

Resident Geologist
Kirkland Lake, Ontario

Glen Auden Resources Limited
P.O. Box 1637
136 Cedar Street S.
Timmins, Ontario
P4N 7W8

Ministry of Northern Development and Mines
Ontario

Technical Assessment Work Credits

File: 2.11253

Date: September 16,1988

Mining Recorder's Report of Work No.: W8808-267

Recorded Holder: Glen Auden Resources Limited

Township ~~or Area~~: St. Laurent

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	L-955597-98 955600 to 603 incl. 955606 to 13 incl. 955616 to 19 incl.
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization 14.90 days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days [X] Airborne [ ]	
Special provision [ ] Ground [X]	
[ ] *Credits have been reduced because of partial* coverage of claims.	
[ ] Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

[X] not sufficiently covered by the survey [ ] insufficient technical data filed

L-955596

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

August 31, 1988

Your File: W8808-269
Our File : 2.11253

Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

RE: Notice of Intent dated August 15, 1988.
Geophysical (Electromagnetic) Survey submitted on
Mining Claims L 955588 et al in the Township of
St. Laurent.

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W.R. Cowan, Manager
Mining Lands Section
Mines & Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3
Telephone: (416) 965-4888

DK:sc

cc: Glen Auden Resources Limited
Noranda Exploration Company Limited
c/o P.O. Box 1637
136 Cedar Street S.
Timmins, Ontario
P4N 7W8

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: Resident Geologist
Kirkland Lake, Ontario

Ministry of Northern Development and Mines
Ontario

Technical Assessment Work Credits

File: 2.11253

Date: August 15, 1988

Mining Recorder's Report of Work No.: W8808-269

Recorded Holder: Glen Auden Resources Limited/Noranda Exploration Company Limited

Township ~~XXXXX~~: St. Laurent

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic 20 days	L-955588 to 91 inclusive 955596 to 99 inclusive 955616 to 23 inclusive 955626 to 30 inclusive
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

10 days Electromagnetic

L-955625

No credits have been allowed for the following mining claims

☒ not sufficiently covered by the survey ☐ insufficient technical data filed

L-879376-77

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

2.11253

RSM EXPLORATION services

ROBERT S. MIDDLETON EXPLORATION SERVICES INC.

136 Cedar St. So.
P.O. Box 1637
Timmins, Ontario
P4N 7W8
Telephone (705) 264-4246
Fax: 705-267-6110

Suite 301
121 Richmond St. W.
Toronto, Ontario
M5H 2K1
Telephone: (416) 861-9316
Fax: 416-861-1367

Timmins, Ontario
April 7, 1988

Mrs. Susan Hurst
Mining Lands Section
Mines and Minerals Branch
Whitney Block, Room 6610
Queen's Park
Toronto, On. M7A 1W3

Dear Susan:

Re: Your file #8808-267
Project M-257

Please find enclosed a breakdown for Induced Polarization Surveys carried out on claims in St. Laurent Township (Larder Lake Mining Division). This work is covered by the compilation "Interpretation Report on the Geophysical Surveys on the St. Laurent Township (Chimp Grid) Property for Tarzan Gold Incorporated" by Greg Hodges.

Should you require any additional information or have any questions, please call.

Hoping this clarifies matters, I thank you for your time.

Sincerely,

Cliff Kubisheskie

M-257 - ST LAURENT TWP
I.P. BREAKDOWN

GROUP 1 - WORK DONE MAR20 - MAR31/88

①	2W	0+25N - 8+50N	MAR 21
②	2W	8+50N - 12+50N	MAR 21
③	4W	0+25N - 7+25N	MAR 21
④	6W	0+25N - 5+25N	MAR 23
⑤	4W	7+25N - 14+25N	MAR 23
⑥	19W	20 - 1+75N	MAR 23
⑦	6W	5+25N - 14+25N	MAR 24
⑧	8W	0+50N - 5+50N	MAR 30
⑨	11W	5+25S - 11+75S	MAR 25
⑩	13W	5+25S - 11+75S	MAR 25
⑪	25W	0+50N - 14+25N	MAR 26
⑫	22W	0+50N - 9+25N	MAR 27
⑬	22W	9+25N - 14+75N	MAR 28
⑭	19W	1+75N - 14+00N	MAR 29

PLEASE NOTE: COVERAGE IS ACTUALLY GREATER THAN INDICATED (FROM PSEUDOSECTIONS) DUE TO THE NATURE OF THE ARRAY.

[redacted] - WORK DONE APR 13 - MAY 6/88

①	15W	0+50N - 14+25N	APR 18
②	17W	0+50N - 12+50N	APR 19
③	20W	0+50N - 14+25N	APR 20
④	21W	0+50N - 14+25N	APR 21
⑤	24W	0+50N - 14+25N	APR 22
⑥	26W	4+75N - 14+25N	APR 23
⑦	27W	0+25S - 14+75S	APR 24
⑧	29W	0+25S - 14+25S	APR 25
⑨	28W	4+00N - 9+50N	APR 26
⑩	30W	5+00S - 11+50S	MAY 5
⑪	32W	5+00S - 11+50S	MAY 6
⑫	31W	5+00S - 11+50S	MAY 5
⑬	33W	5+00S - 11+50S	MAY 6

August 17, 1988 Report of Work W8808-267

REGISTERED

Glen Auden Resources Limited
c/o P.O. Box 1637
136 Cedar Street S.
Timmins, Ontario
P4N 7W8

Dear Sirs:

Enclosed is a copy of a Report of Work for Geophysical (Induced Polarization) assessment work that was recorded by the Mining Recorder on June 9, 1988, on Mining Claims L 877286 et al in the Township of St. Laurent.

We have no record that you provided the full reports and maps to the Minister within the sixty day period provided by Section 77 of the Mining Act.

Unless you can provide evidence by August 27, 1988, that the reports and maps were submitted as required, the Mining Recorder will be directed to cancel the work credits recorded on June 9, 1988.

Yours sincerely,

W.R. Cowan, Manager
Mining Lands Section
Mines and Minerals Branch

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

SH:pl
Enclosure

cc: Mining Recorder
Kirkland Lake, Ontario

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	X		=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	÷	No. of Claims	=	Days per Claim
66	X	7	=	462	+	—	=	462	+	31	=	14.90

Type of Survey

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

Type of Survey

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

Type of Survey

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

ASSESSMENT WORK BREAKDOWN

1. Type of Survey Induced Polarization

2. Township or Area St Laurent

3. Numbers of Mining Claims Traversed by Survey 877286, 877287, 877293, 877294, 879345, 879346, 879347, 879350, 879362, 879363, 879364, 879886, 955596, 955597, 955598, 955600, 955601, 955602, 955603, 955606, 955607, 955608, 955609, 955610, 955611, 955612, 955613, 955616, 955617, 955618, 955619

4. Number of Miles of Line Cut ~ Flown ~

*5. Number of Stations Established 540

*6. Make and type of Instrument Used Scintrex IPR-11, TSQ-3

*7. Scale Constant or Sensitivity ± 0.1 mV/V

*8. Frequency Used and Power Output 8 Second Cycle 50% Duty 3.0 kW

9. Summary of Assessment Credits (details on reverse side)

Total 8 hour Technical Days (Include Consultants, Draughting etc.) 66

Total 8 hour Line-Cutting Days ~

Calculation

66 (Technical) x 7 = 462 + ~ (Line-cutting) = 462 ÷ 31 (Number of claims) = 14.90 (Assessment credits per claim)

The dates listed on this form represent working time spent entirely within the limits of the above listed claims ☑ Check
If otherwise, please explain

Dated: June 6/88 Signed: Alfred H. Kulichenko

Note: (A) * Complete only if applicable.
(B) Complete list of names, addresses and dates on reverse side.
(C) Submit separate breakdown for each type of survey.
(D) Submit in duplicate.

ASSESSMENT WORK BREAKDOWN

1. FIELD WORK

Type of Work IP	Name & Address	Dates Worked	Number of 8 hour days
Ted Anderson	P.O. Box 1637 Timmins, Ontario P4N 7W8	April 13-27, May 5-6TH 1988	17
Ralph Platt			15
Leonard Nelson			16
Peter Reid			12

2. CONSULTANTS

Name & Address	Dates Worked (specify in field or office)	Number of 8 hour days
Greg Hodges P.O. Box 1637 Timmins, Ont	May 1988 Report	2
Chris Jones	April 13 - May 6 1988 Supervise	2

3. DRAUGHTSMAN, TYPING, OTHERS (specify)

Name & Address	Type of Work	Dates Worked	Number of 8 hour days
Brian Bellenger	Draughting	May 1988	2

TOTAL 8 HOUR TECHNICAL DAYS 66

4. LINE-CUTTING

Name	Address	Dates Worked	Number of 8 hour days

TOTAL 8 HOUR LINE-CUTTING DAYS _____

ASSESSMENT WORK BREAKDOWN

1. FIELD WORK

Type of Work IP	Name & Address	Dates Worked	Number of 8 hour days
Ted Andersen	P.O. Box 1637 Timmins, Ontario P4N 7W8	April 13-23, May 5-6TH 1988	17
Rachel Platt			15
Leonard Nelson			16
Peter Reid			12

2. CONSULTANTS

Name & Address	Dates Worked (specify in field or office)	Number of 8 hour days
Greg Hodges P.O. Box 1637 Timmins, Ont.	May 1988 Report	2
Chris Jones	April 13 - May 6 1988 Supervise	2

3. DRAUGHTSMAN, TYPING, OTHERS (specify)

Name & Address	Type of Work	Dates Worked	Number of 8 hour days
Brian Bellenger	Draughting	May 1988	2

TOTAL 8 HOUR TECHNICAL DAYS 66

4. LINE-CUTTING

Name	Address	Dates Worked	Number of 8 hour days

TOTAL 8 HOUR LINE-CUTTING DAYS _____

ASSESSMENT WORK BREAKDOWN

1. Type of Survey ..... Induced Polarization .....

2. Township or Area ..... St Laurent .....

3. Numbers of Mining Claims Traversed by Survey 877286, 877287, 877293, 877294, 879345, 879346, 879347, 879350, 879362, 879363, 879364, 879886, 955596, 955597, 955598, 955600, 955601, 955602, 955603, 955606, 955607, 955608, 955609, 955610, 955611, 955612, 955613, 955616, 955617, 955618, 955619 .....

4. Number of Miles of Line Cut ..... ~ ..... Flown ..... - .....

*5. Number of Stations Established ..... 540 .....

*6. Make and type of Instrument Used ..... Scintrex IPR-11, TSQ-3 .....

*7. Scale Constant or Sensitivity ..... ± 0.1 mV/V .....

*8. Frequency Used and Power Output ..... 8 Second Cycle 50% Duty 3.0 KW .....

9. Summary of Assessment Credits (details on reverse side)

Total 8 hour Technical Days (Include Consultants, Draughting etc.) ..... 66 .....

Total 8 hour Line-Cutting Days ..... - .....

Calculation

66	x 7 =	462	+	-	=	462	÷	31	=	14.90
Technical				Line-cutting				Number of claims		Assessment credits per claim

The dates listed on this form represent working time spent entirely within the limits of the above listed claims ☑ Check
If otherwise, please explain .....

.....

Dated: June 6/88 ..... Signed: Clifford H. Kubichadie .....

Note: (A) * Complete only if applicable.
(B) Complete list of names, addresses and dates on reverse side.
(C) Submit separate breakdown for each type of survey.
(D) Submit in duplicate.

Ministry of
Northern Development
and Mines

Ontario

Ministère du
Développement du Nord
et des Mines

AMENDED

July 20, 1988

Your file: W8808-163
Our file: 2.11253

Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

Re: Notice of Intent dated June 17, 1988
Geophysical (Magnetometer) Survey
submitted on Mining Claims 876982 et al
in the Township of St. Laurent

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

This approval replaces the statement dated June 17, 1988 as there was a typographical error in this one technical data statement.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W.R. Cowan, Manager
Mining Lands Section
Mines & Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

RM
RM:pl
Enclosure

cc: Mr. G.H. Ferguson
Mining and Lands Commissioner
Toronto, Ontario

Resident Geologist
Kirkland Lake, Ontario

Glen Auden Resources Ltd.
P.O. Box 1637
136 Cedar Street S.
Timmins, Ontario
P4N 7W8

Noranda Exploration Company Limited
P.O. Box 1205
Timmins, Ontario
P4N 7J5

Ministry of Northern Development and Mines

Ontario

Technical Assessment Work Credits

File 2.11253

Date July 20, 1988

Mining Recorder's Report of Work No. W8808-163

AMENDED

Recorded Holder: Glen Auden Resources Limited

Township or Area: St. Laurent Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	L 876982-983 879374-375 879936-937 955588 to 591 inclusive 955596 to 603 inclusive 955610 to 613 inclusive 955616 to 623 inclusive 955625 to 630 inclusive
Electromagnetic _____ days	
Magnetometer 40 days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

30 days Magnetomter	20 days Magnetometer
L 955606	L 955607 to 609

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

0328 (85/12)

Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

July 4, 1988

Your File: W8808-162
W8808-163
Our File : 2.11253

Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

RE: Notice of Intent dated June 17, 1988.
Geophysical (Electromagnetic & Magnetometer)
Survey submitted on Mining Claims L 879936
et al in the Township of St. Laurent.

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W.R. Cowan, Manager
Mining Lands Section
Mines & Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3
Telephone: (416) 965-4888

RM
RM:sc

cc: Glen Auden Resources Ltd
P.O. Box 1637
136 Cedar Street S.
Timmins, Ontario
P4N 7W8

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: Resident Geologist
Kirkland Lake, Ontario

cc: Noranda Exploration Company Limited
P.O. Box 1205
Timmins, Ontario
P4N 7J5

Ministry of Northern Development and Mines

Ontario

Technical Assessment Work Credits

File 2.11253

Date June 17, 1988

Mining Recorder's Report of Work No. W8808-163

Recorded Holder: Glen Auden Resources Limited

Township or Area: St.,Laurent Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	9
Electromagnetic _____ days	L 896982-983
Magnetometer 40 days	879374-375
Radiometric _____ days	879936-937
Induced polarization _____ days	955588 to 591 inclusive
Other _____ days	955596 to 603 inclusive
Section 77 (19) See "Mining Claims Assessed" column	955610 to 613 inclusive
Geological _____ days	955616 to 623 inclusive
Geochemical _____ days	955625 to 630 inclusive
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

30 days Magnetomter	20 days Magnetometer
L 955606	L 955607 to 609

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Ministry of Northern Development and Mines
Ontario

Technical Assessment Work Credits

File: 2.11253

Date: June 17, 1988

Mining Recorder's Report of Work No.: W8808-162

Recorded Holder: Glen Auden Resources Limited

Township ~~XXXXX~~: St. Laurent Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	L 877286-287 877293-294 879345-346 879378-379 879886 879932-933 955600 to 603 inclusive 955606 to 612 inclusive
Electromagnetic 20 days	
Magnetometer ____ days	
Radiometric ____ days	
Induced polarization ____ days	
Other ____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological ____ days	
Geochemical ____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

5 days Electromagnetic
L 879347
879350
879362 to 364 inclusive

15 days Electromagnetic
L 955613

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ insufficient technical data filed

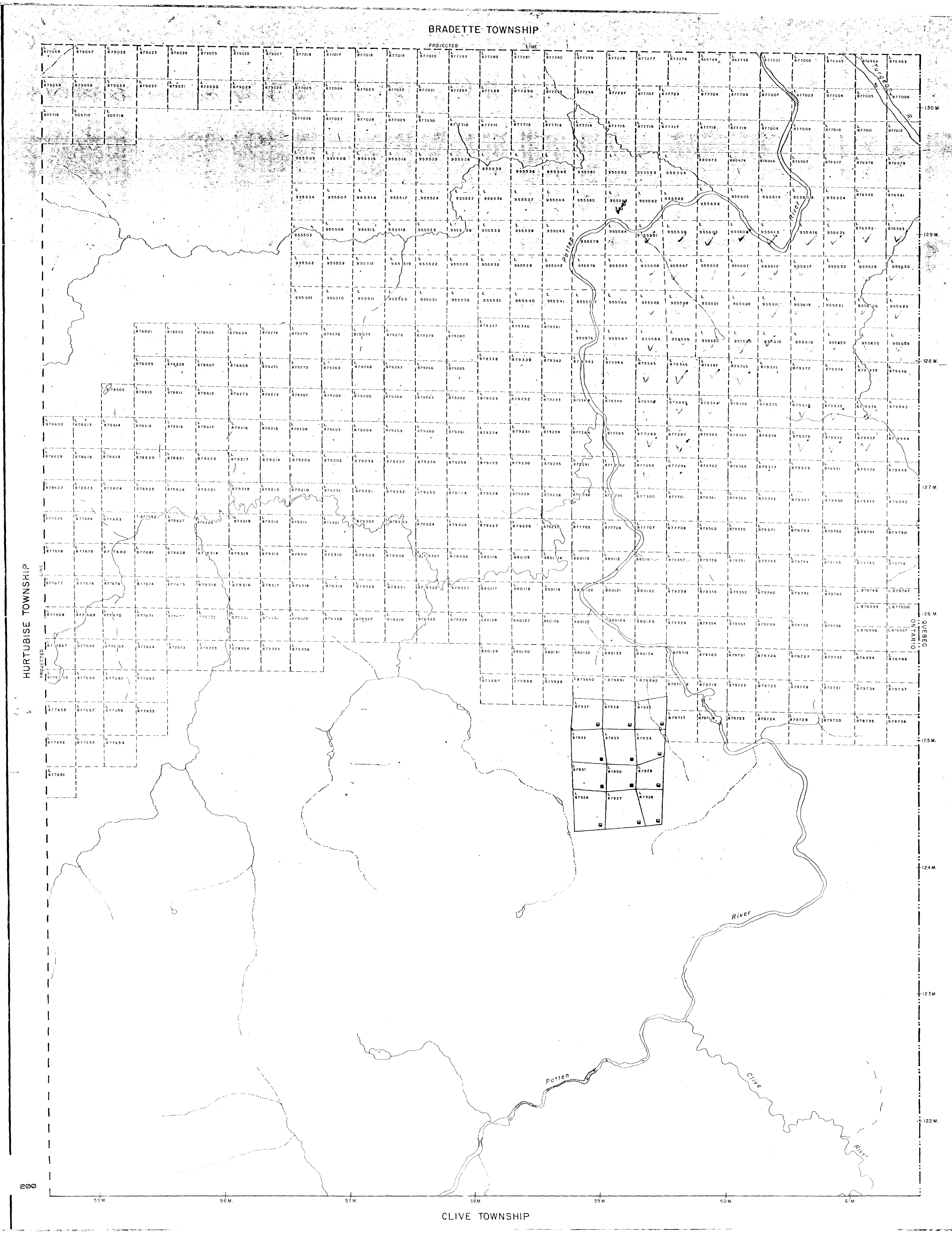
The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

828 (85/12)

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



LEGEND

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

DISPOSITION OF CROWN LAND

TYPE OF DOCUMENT — SYMB

PATENT, SURFACE & MINING RIGHTS
" , SURFACE RIGHTS ONLY
" , MINING RIGHTS ONLY
LEASE, SURFACE & MINING RIGHTS
" , SURFACE RIGHTS ONLY
" , MINING RIGHTS ONLY
LICENCE OF OCCUPATION
ORDER-IN-COUNCIL
RESERVATION
CANCELLED
SAND & GRAVEL

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MA 1913, VESTED IN ORIGINAL PATENTEE BY THE PU LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSE

TOWNSHIP

ST. LAURENT

M.N.R. ADMINISTRATIVE DISTRICT

COCHRANE

MINING DIVISION

LARDER LAKE

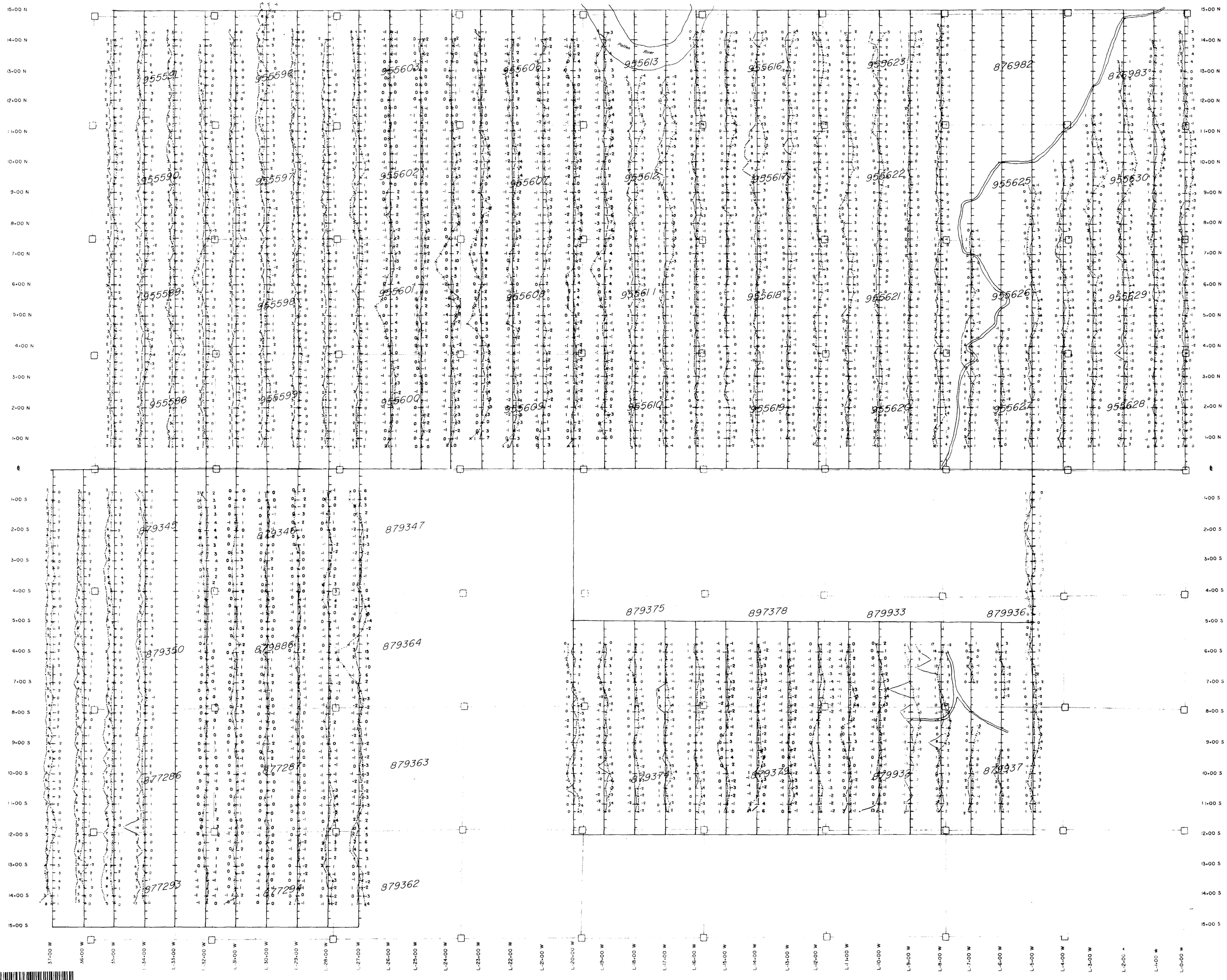
LAND TITLES / REGISTRY DIVISION

COCHRANE

Ontario — Ministry of Natural Resources — Ministry of Northern Developme and Mines

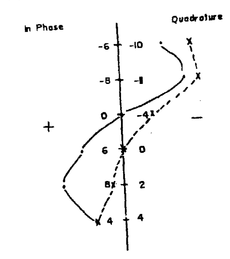
Date: OCTOBER, 1986

Number: G-356



LEGEND

Coil Separation : 150 m
Profile Scale : 1 cm = 10%



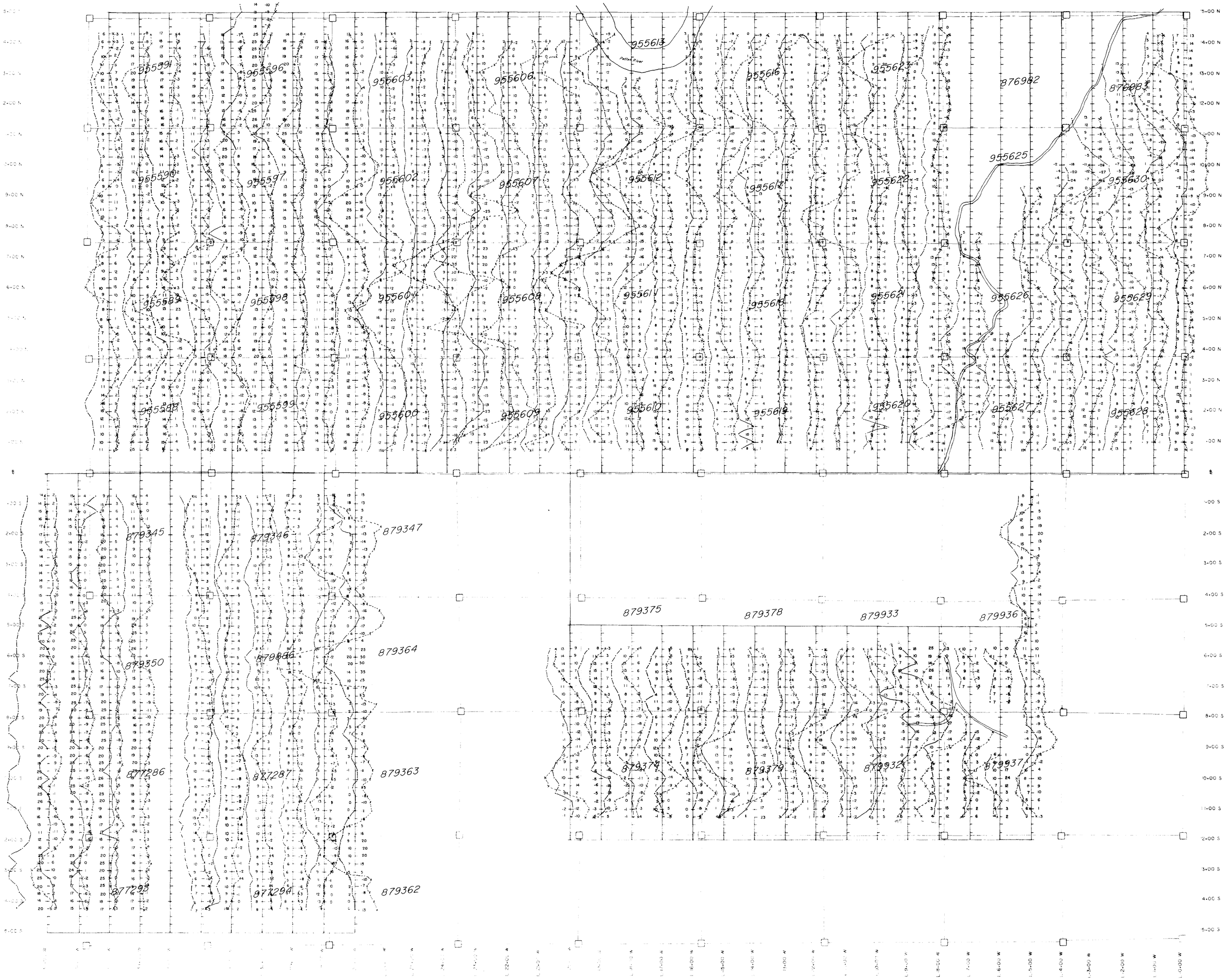
☐ Claim Post Not Located
■ Claim Post Located, Position Approximate

ROBERT S. MIDDLETON EXPLORATION SERVICES INC.

for TARZAN GOLD INC.

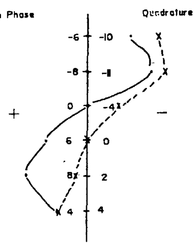
Title ST-LAURENT TWP. 2.11253
CHIMP GRID
MAX-MIN II SURVEY
444 Hz

Date: March 88	Scale: 1:5000	N.T.S.: 32E/5
Drawn: JLB	Approved:	File: M-257



LEGEND

Coil Separation : 150 m
Profile Scale : 1 cm = 10%



☐ Claim Post Not Located
■ Claim Post Located, Position Approximate

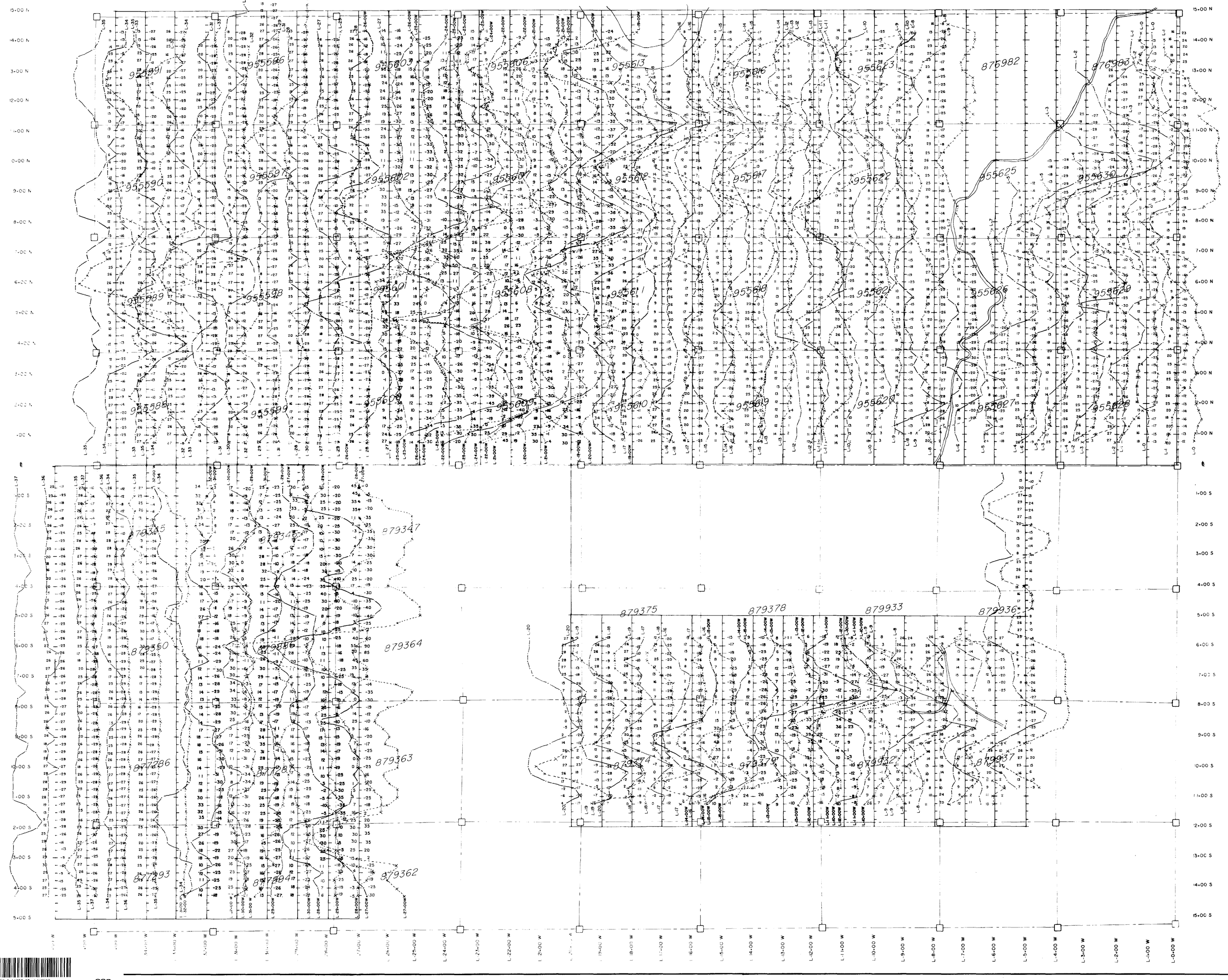
ROBERT S. MIDDLETON EXPLORATION SERVICES INC.

for TARZAN GOLD INC.

Title ST-LAURENT TWP.
CHIMP GRID
MAX-MIN II SURVEY
1777 Hz

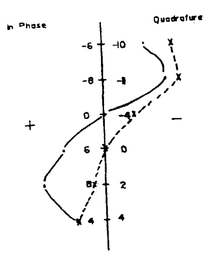
2.11253

Date: March 88	Scale: 1:5000	N.T.S.: 32E/5
Drawn: JLB	Approved:	File: M-257



LEGEND

Coil Separation : 150 m
Profile Scale : 1 cm = 10%



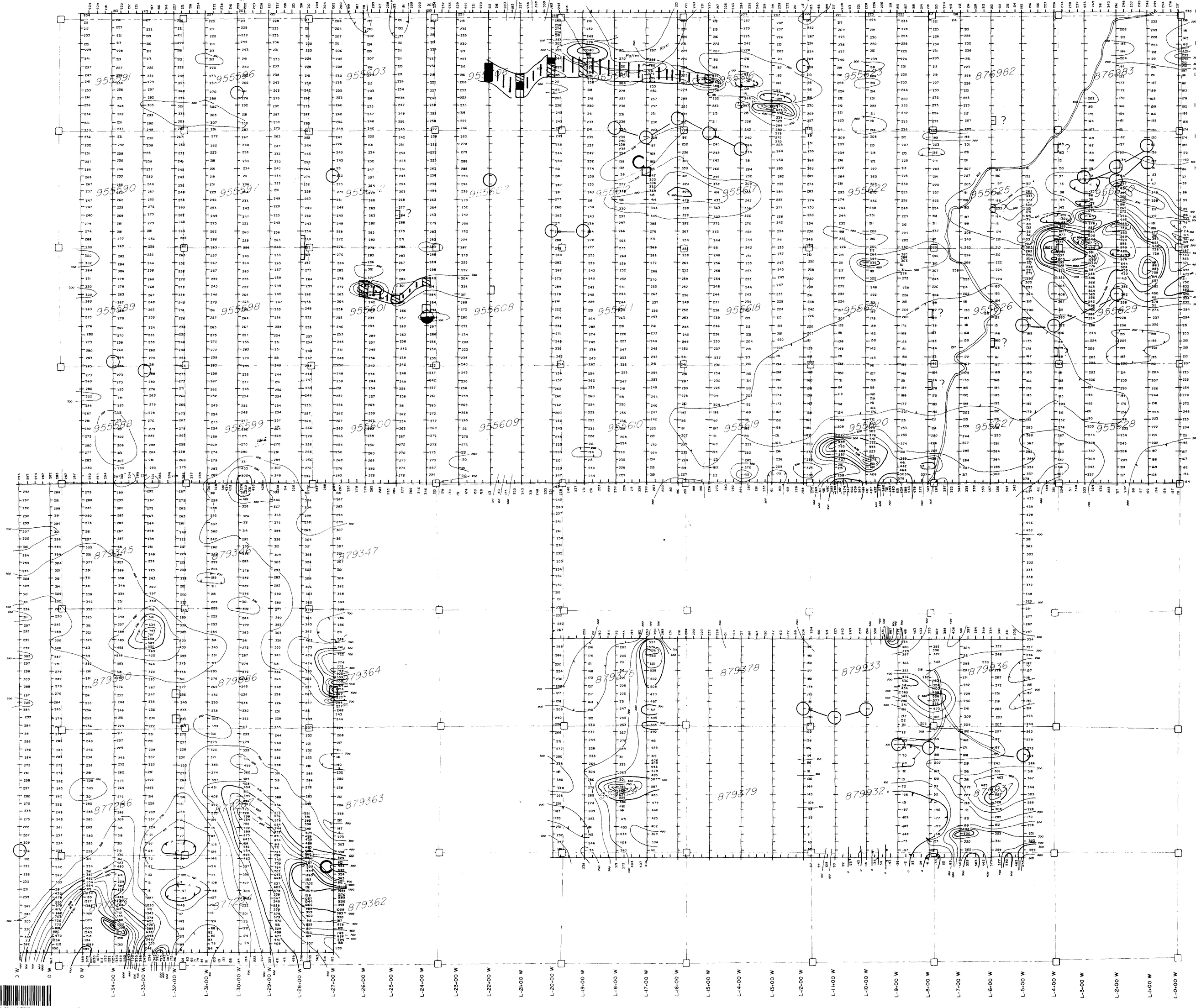
☐ Claim Post Not Located
■ Claim Post Located, Position Approximate

ROBERT S. MIDDLETON EXPLORATION SERVICES INC.

for TARZAN GOLD INC.

Title ST-LAURENT TWP. 2.11253
CHIMP GRID
MAX-MIN II SURVEY
3555 Hz

Date: March 88	Scale: 1:5000	N.T.S.: 32E/5
Drawn: JLB	Approved:	File: M-257



Key

Symbol	Grade	Description
●	1	Very Good Conductor
◕	2	Good Conductor
◑	3	Fair Conductor
◔	4	Weak Conductor
○	5	Very Weak Conductor

I.P. ANOMALIES

WEAK	+ / −	RESISTIVITY CONTRAST
MODERATE	C	CONDUCTOR
STRONG	S	SHEAR

SHALLOW — DEEP

LEGEND

INSTRUMENT: EDA PPM 350
PARAMETRES MEASURED: Total Magnetic Field
Diurnals corrected by EDA PPM 400 Base Station
ACCURACY: ±1 nano tesla
CONTOUR INTERVAL: 100 nano teslas
BACKGROUND: 58,000

☐ Claim Post Not Located
■ Claim Post Located, Position Approximate

ROBERT S. MIDDLETON EXPLORATION SERVICES INC.

for TARZAN GOLD INC.

Title ST-LAURENT TWP.
CHIMP GRID 2.11253

MAGNETOMETER SURVEY

Date: March 88	Scale: 1:5000	N.T.S.: 32E/5
Drawn: JLB	Approved:	File: M-257