



42A01NE0039 2.9901 MAISONVILLE

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GEOPHYSICAL REPORT
on the
Maisonville Township Property
of
GLEN AUDEN RESOURCES INC.
by
Greg Hodges
September 30, 1986

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MAR 25 1987
MINING LANDS SECTION



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INTRODUCTION

During the summer and fall of 1986, a geophysical survey was completed on the Maisonville property of Glen Auden Resources Inc by R.S. Middleton Exploration Services Inc.

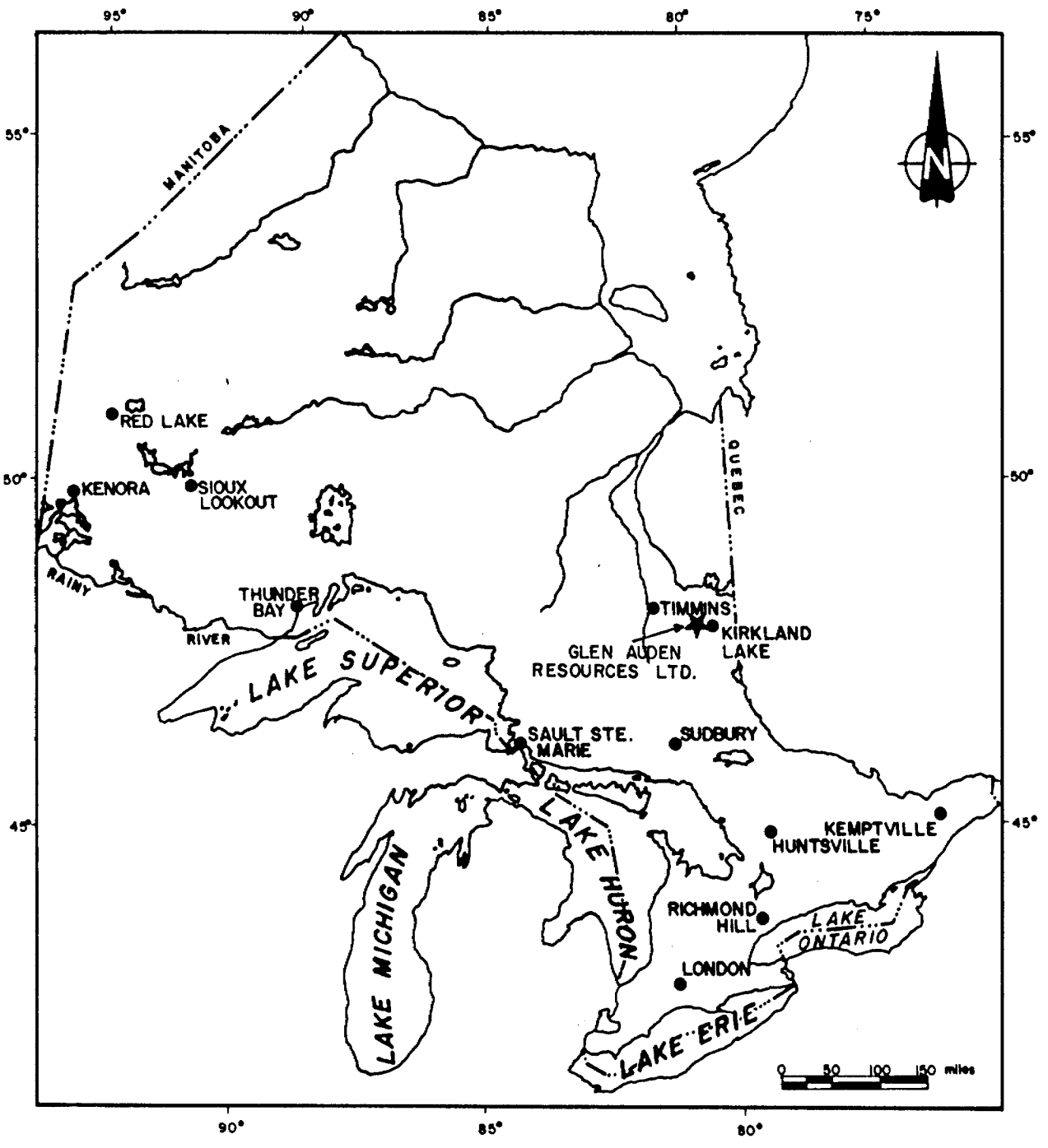
The project consisted of induced polarization surveying over several grids on the property, to investigate features of geological interest and previously detected airborne anomalies.

LOCATION AND ACCESS

The grid is located in the south west portion of Maisonville Township, Ontario. Access to the grid is from Highway 11, which crosses the north-western corner of the claim block. Highway 570 extends east from Highway 11 through the village of Sese kinika, and provides access via several bush roads and trails to the southern and eastern parts of the grid. (See Figure 1 and 2).

CLAIM STATUS

The property consists of 122 un-patented mining claims in the Larder Lake Mining District (see Figure 3). These claims (listed below) are held by Glen Auden Resources Limited, Suite 2400-130 Adelaide St., West, Toronto.



PROVINCE OF ONTARIO

Greg Kohn

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for	GLEN AUDEN RESOURCES LTD.	
	Title	LOCATION MAP	
	Date: JULY/ 85	Scale: 1"=160mi.	N.T.S.:
	Drawn:	Approved:	File:

Fig. 1

CLAIM NUMBER

EXPIRY DATE

L 778 368	July 16, 1986
L 778 369	July 16, 1986
L 778 370	July 16, 1986
L 778 371	July 16, 1986
L 778 372	July 16, 1986
L 778 373	July 16, 1986
L 778 376	August 24, 1987
L 778 377	August 24, 1987
L 778 378	August 24, 1987
L 778 379	September 4, 1986
L 798 863	August 16, 1986
L 798 864	August 16, 1986
L 798 865	August 16, 1986
L 798 866	August 16, 1986
L 798 867	August 16, 1986
L 798 868	August 16, 1986
L 798 869	August 16, 1986
L 798 870	August 16, 1986
L 798 871	August 16, 1986
L 798 872	August 16, 1986
L 798 873	September 4, 1986
L 798 874	September 4, 1986
L 798 875	September 4, 1986
L 798 876	September 4, 1986
L 798 877	September 4, 1986
L 798 878	September 4, 1986
L 799 289	June 21, 1986
L 799 290	June 21, 1986
L 799 291	June 21, 1986
L 799 678	May 31, 1986
L 800 344	May 31, 1986
L 800 345	June 25, 1986
L 800 346	June 25, 1986
L 800 347	June 25, 1986
L 800 348	June 25, 1986
L 800 349	June 25, 1986

<u>CLAIM NUMBER</u>	<u>EXPIRY DATE</u>
- L 800 827	August 24, 1986
L 800 828	August 24, 1986
L 800 829	August 24, 1986
L 800 830	August 24, 1986
L 800 831	August 24, 1986
- L 800 832	August 24, 1986
L 801 217	June 21, 1986
L 801 218	June 27, 1986
L 801 219	June 27, 1986
L 801 220	June 27, 1986
L 801 221	June 27, 1986
L 801 222	June 27, 1986
L 801 876	June 25, 1986
L 801 877	June 21, 1986
L 801 878	June 21, 1986
L 802 331	June 27, 1986
L 802 332	July 16, 1986
L 802 333	July 16, 1986
L 802 334	July 16, 1986
L 802 335	July 16, 1986
L 802 336	July 16, 1986
L 802 337	July 16, 1986
L 802 338	July 16, 1986
L 802 339	July 16, 1986
L 802 340	July 16, 1986
L 802 341	July 16, 1986
L 802 342	July 16, 1986
L 802 343	July 16, 1986
L 802 346	September 4, 1986
L 802 347	September 4, 1986
L 802 348	September 4, 1986
L 802 349	September 4, 1986
L 802 353	July 9, 1986
L 802 354	July 9, 1986
L 802 355	July 9, 1986
L 802 356	July 9, 1986
L 802 357	July 9, 1986
L 802 358	July 9, 1986
L 802 359	July 9, 1986
L 802 360	July 9, 1986

CLAIM NUMBER

EXPIRY DATE

L 802 365	August 13, 1986
L 802 366	August 14, 1987
L 802 367	August 14, 1987
L 802 368	August 14, 1987
L 802 369	August 14, 1987
L 802 744	August 3, 1986
L 802 745	August 3, 1986
L 802 746	August 3, 1986
L 802 747	August 3, 1986
L 802 748	August 3, 1986
L 802 749	August 3, 1986
L 802 750	September 10, 1986
L 803 374	August 24, 1986
L 803 375	August 24, 1986
L 803 376	August 24, 1986
L 803 377	August 24, 1986
L 803 378	August 24, 1986
L 803 379	August 24, 1986
L 803 380	August 24, 1986
L 803 381	August 24, 1986
L 803 382	August 24, 1986
L 803 383	August 24, 1986
L 803 384	August 24, 1986
L 803 385	August 24, 1986
L 803 386	August 24, 1986
L 803 387	August 24, 1986
L 803 388	August 24, 1986
L 803 389	August 24, 1986
L 803 390	August 24, 1986
L 803 391	August 24, 1986
L 803 392	August 24, 1986
L 803 393	August 24, 1986
L 803 394	August 24, 1986
L 803 395	August 24, 1986
L 803 396	August 24, 1986
L 803 397	August 24, 1986
L 803 398	August 24, 1986
L 803 399	August 24, 1986
L 803 400	August 24, 1986
L 803 401	August 24, 1986
L 803 402	August 24, 1986
L 803 403	August 24, 1986

CLAIM NUMBER

EXPIRY DATE

L 803 557
L 803 558
L 803 559
L 803 560

September 4, 1986
September 4, 1986
September 4, 1986
September 4, 1986

REGIONAL GEOLOGY

The following is quoted from the Geological Report on the Property of GLEN AUDEN RESOURCES LIMITED by Nadia Cairra, B. Sc., October 2, 1985:

The Maisonville township property is located in the south part of the Kirkland Lake area (Figure 4) and is underlain by Archean volcanic, sedimentary, and intrusive rocks which are part of the Abitibi Greenstone Belt. In the south part of the Kirkland Lake area, the Archean rocks are unconformably overlain by Proterozoic sedimentary rocks of the Cobalt series. Diabase dikes cut all of the rock types in the area the Cobalt sediments, which occur in the northwest corner of the property of interest.

In the Kirkland Lake area, the volcanic rocks of the Abitibi Greenstone belt are preserved in a synclinerium located between the Lake Abitibi Batholith and the Round Lake Batholith. The north and south limbs of the synclinerium are cut by two



GRENFELL TWP.

NOTE: See next page for legend

Robert S. Middleton

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	GLEN AUDEN RESOURCES LIMITED		
	Title		
	General Geology Map		
	Fig. 4		
	Date: Oct. 1985	Scale: 1" = 1/2 mile	N.T.S.
	Drawn: C.G.	Approved:	File: M-78

large east-striking fault zones: the Destor-Porcupine Fault Zone, and the Kirkland Lake-Larder Lake Fault Zone, respectively.

Rocks in the area have been affected by subgreenschist regional metamorphism.

The volcanic rocks in the Kirkland Lake Region were formed during cycles of volcanism associated with sedimentation and plutonism. Each cycle consisted of komatiitic volcanism followed by the tholeiitic, calc-alkalic, and finally, alkalic volcanism (Jensen O.G.S., 1979).

The Lower Supergroup on the south limb of the synclinorium, southeast of Kirkland Lake, contains a cycle of komatiitic, tholeiitic, and calc-alkalic volcanics represented by the Wabewawa, Catherine, and Skead Groups, respectively (Jensen 1979).

The volcanic cycle represented by the Upper Supergroup consists of komatiitic lavas of the Larder Lake Group succeeded by tholeiitic rocks of the Kinojevis Group and calc-alkalic rocks of the Blake River Group. The Maisonville-Grenville Township property of Glen Auden Resources Limited is underlain by the tholeiitic rocks of the

Kinojevis Group and partly by interflow tuffs of calc-alkalic composition of the Blake River Group. This rock series is similar to the Tisdale Group in the Timmins area which contains numerous well known gold deposits. Alkalic volcanic rocks of the Timiskaming Group unconformably overlies the Blake River and Kinojevis Groups.

On the north limb of the synclinorium, the oldest rocks are calc-alkalic volcanic rocks of the Hunter Mine Group. Unconformably overlying the Hunter Mine Group is a komatiitic succession called the Stoughton-Roquemaure Group (Jensen, 1976a, 1978b, O.G.S.).

The sinking of volcanic rocks during their accumulation would explain the origin of the synclinorium. Various intrusive differentiates including monzonite, porphyritic syenite, mafic intrusive syenite, and augite syenite intruded the above mentioned rocks as plugs, dikes and/or sills. Gold mineralization frequently occurs around or within the syenite bodies as well as along north-south trending fault structures. Major north-south faults have been interpreted (Middleton 1976) based on the regional gravity

data. These features are also discernible from the aeromagnetic data, O.G.S. (1979).

PROPERTY GEOLOGY

The following description of the property geology is quoted from the Geological Report on the Property by Nadia Caira (1985):

The oldest rocks on the property are the tholeiitic basalts of the Kinojevis Group and are divided into iron-rich and iron-poor, tholeiitic basalts. The coarser-grained variety (2-5mm) of the basalts were previously mapped as coarse-grained gabbro intrusives, however, more recent mapping in the area by L. Jensen O.G.S., has discovered that these "gabbro intrusions" are in fact coarse-grained iron-rich tholeiitic basalt flows. Similar coarse-grained flows occur on the Maisonville-Grenfell township property, and it is probable that no gabbro intrusives exist on the property to the authors knowledge.

These tholeiitic basalts have been intruded by a series of felsic syenitic dikes and mafic diabasic dikes. Rocks of the felsic variety vary from earlier trondhjemitic phases to porphyritic syenite, syenodiorite to a mafic syenite.

Alteration around these dikes includes silicification, epidotization and the introduction of hydrogarnet and carbonate along fractures.

The predominant rock units that occur on the Maisonville-Grenfell Township property are massive (2-5m) coarse-grained, fine-grained, and pillowed iron-rich and iron-poor, tholeiitic basalts. These mafic volcanics are typically dark green to black in the more iron-rich varieties and a lighter green colour in the iron-poor basalts. The eastern portion of the property is underlain by predominantly iron-poor, tholeiitic basalts with a minor narrow iron-rich tholeiitic basalt sequence containing sheared chert, cherty tuffs and crystal tuff interflow units. Throughout the remainder of the property the coarse-grained iron-rich tholeiites form units 50 to 500m thick that alternate with finer grained units 2-5m thick. A few of the fine-grained map units represent a gradational and compositional change in the rocks from iron-rich tholeiite to an iron-poor tholeiite generally confirmed by the magnetism of the rock. The iron-rich tholeiites are strongly magnetic while the iron-poor tholeiites are weakly

magnetic. Some of the coarse-grained iron-poor, magnesium tholeiites appear to grade laterally into fine-grained pillowed lavas of the same composition. Minor amounts of pillowed iron-rich tholeiitic basalt also occur.

These iron-rich tholeiitic basalt flows are thought to be the extrusive equivalents of the gabbros occurring in the townships north of the property. The claims covering most of Sesekinika Lake are underlain by predominantly iron-poor tholeiitic basalts that vary from massive coarse-grained (2-5mm) flows, to fine-grained massive flows, to pillowed flows with minor variolitic and hyaloclastite phases. These mafic volcanics are medium green and weakly magnetic. Minor syenitic dikes and diabasic dikes with varying amounts of magnetite cut the mafic volcanics. These may correspond to several magnetic anomalies that occur on the regional aeromagnetic map.

Several interflow units of chert, cherty tuff, cherty oxide iron formations, crystal tuff, and tuff breccia of calc-alkalic dacite composition occur on the property overlying the

iron-rich tholeiitic basalts. These may represent the waning phases of the volcanism. They may mark periods of quiescence the change from iron-rich tholeiitic basalt to iron-poor, tholeiitic basalts.

The shear zones consist of highly fractured, epidotized, material containing 5-15% pyrite as fine stratiform seams, stringer pyrite and as disseminations.

The lava flows are, in places pillowed, variolitic, amygdaloidal, and hyaloclastic. Little evidence of stretching or flattening is visible in the area. The only trace of movement is the presence of chlorite-carbonate rich slickensides at the flow contacts, and in some pillow selvages of the lava flows.

The presence of interflow tuff units of calc-alkalic composition may indicate an overlap of the later calc-alkalic Blake River Group into the Kinojevis Group. The crystal tuff unit seems, from field relationships, to occur along the contact between iron-rich and the iron-poor, tholeiite flow contacts, following bedding contacts as determined from pillow tops and from

other sedimentary horizon contacts.

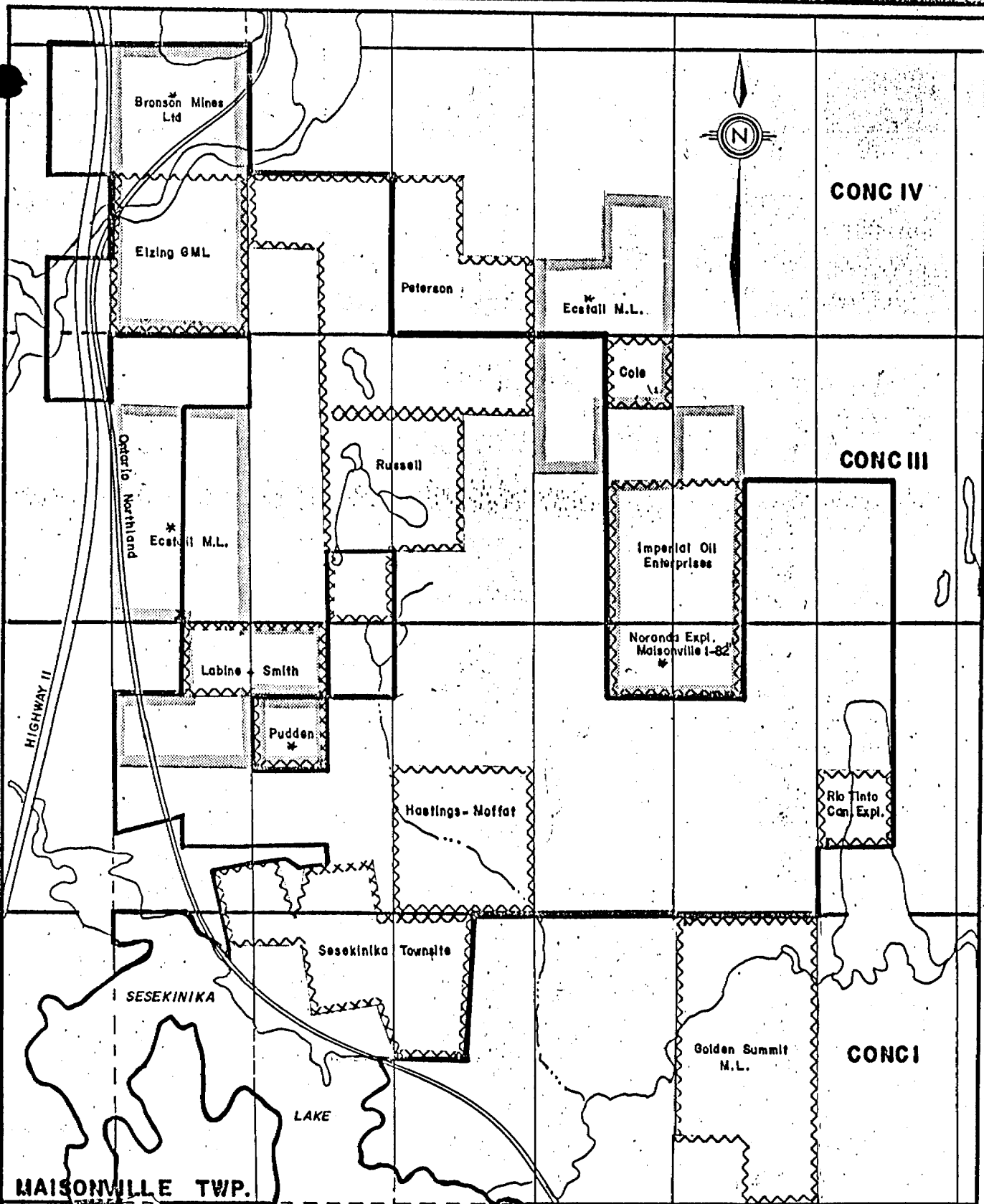
Major diabase dikes were found, predominantly in the eastern portion of the property around Kapakita Lake. At this location the dikes cut predominantly iron-poor, tholeiitic basalts. However, throughout the remainder of the property, the similarity between the diabase dikes and the iron-rich coarse-grained (2-5mm) tholeiitic basalts posed a constant problem throughout the mapping.

The major north trending diabase dikes are thought to follow fault zones and major joint directions.

HISTORY OF EXPLORATION

The following is quoted from the Report by Nadia Caira (1985):

The area was first prospected in the early days of the Kirkland Lake gold rush since some aspects of the geology were similar to that of Kirkland Lake area (syenite porphyry intrusives with associated gold-molybdenite mineralization). Gold was found in 1914 in Con. II, Lot 9 of Maisonville Township and considerable activity took place in the 1930's. Most of this work



LOT 12 LOT 10 LOT 9 LOT 8 LOT 7 LOT 6 LOT 5

GRENFELL TWP.

NOTE: - * covered with [stippled area]

- No previous work in Grenfell Township Property

[Handwritten signature]

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.
	for GLEN AUDEN RESOURCES LIMITED
	Title MAISONVILLE TOWNSHIP PROPERTY
	PREVIOUS WORK
	FIG. 5
Date: July 1988	Scale: 1" = 1/2 mile N.T.S.:

however, is unrecorded. Numerous pits and trenches occur on the Glen Auden Resources Limited property which contain abundant quartz and/or pyrite mineralization but no record of this work can be located in the assessment files.

The Golden Summit mine which is located approximately 200 metres south of the southern border of the Glen Auden Resources property in Maisonville Township in Lot 6 Concession I is reported to have produced gold. An unspecified amount of gold production is unofficially reported by previous workers in the area from the Bennett Mine in Lot 9, Con. II which is located on the Glen Auden Resources Limited property.

Descriptions of early exploration work and the properties on which work was done is given in the section on Economic Geology. Recent exploration work is described here.

The most recent work in the area was a magnetometer survey carried out on the "Bennett Claim" (Lot 9, Con. II, N 1/2, NW 1/4) by C. Forbes in 1984. This survey located a number of high gradient anomalies associated with magnetic phases of the tholeiitic volcanics. These rocks

are intruded by syenite porphyry and host north-south trending shallow dipping and vertical quartz zones. This area corresponds to AREA 12 on the property (see Economic Geology).

Prospecting by C. Forbes on various parts of the property has been successful in discovering a new gold bearing structure. Significant assays of up to .726 oz/ton gold were obtained from grab samples of pyrite bearing quartz vein material from Con. II, Lot 7, S 1/2 (claim 800 346). This unrecorded showing contains a 2' wide glassy brecciated quartz and pyrite vein possibly trending 110-130° with numerous parallel and branching veins and veinlets. Old pits 100 feet north of this old trench were observed to contain pyrite in both the quartz veins and in the iron-rich tholeiitic wallrocks. Considerable chloritization, silicification and carbonate alteration occurs in the vicinity of the quartz veins. The numerous poor exposures observed imply that a 50 foot wide quartz stockwork may be present.

A north-south trending chert horizon in Lot 6, Con. III, S 1/2 has also been prospected by C.

Forbes (1984). Assays as high as .143 oz Au/ton were obtained in grab samples of banded chert with pyrite. In 1983, trenching was performed by Harold Barry in Lot 9, Con. I, N 1/2 and filed as mechanical work, however, sampling was not reported.

In 1979, an airborne electromagnetic and magnetic survey was released by the Ontario Geological Survey (1979) which covered both Maisonville and Grenfell Townships. This data can be used to trace major structures on the property including major shear zones and graphitic chert horizons.

In 1975 Ecstall Mining (Texas Gulf) did ground electromagnetic and magnetic surveys on small grids in various parts of Maisonville Township. Part of this work actually took place on the margin of the property in Lot 6-7, Con. III and V., Slankis, J.L. (1974). Earlier work by Imperial Oil in the same area tested two north trending EM conductors which revealed the presence of graphite - pyrite zones containing sphalerite mineralization. Exploration results have been compiled by Ploeger, F. et al (1979). Description

of early exploration work and the properties on which the work was done is described here. An index of assessment work is shown in Figure 5.

Bennett Mining Company Limited (33)

In Maisonville Township, concession II, Lots 9 and 10, on former claim L3688, a two-compartment shaft was sunk to a depth of 530 feet and levels were cut at 125 foot intervals. Crosscutting and drifting were reported early in 1927, but in June the plant was dismantled (Kindle 1936, p.11)

About 800 feet (two holes, 133.5 and 174 feet) and 1,200 feet (one hole, 130 feet) southwest of the main shaft, diamond drilling was done in 1958 by Mr. S.A. Pain. The holes intersected diorite and volcanic rocks cut by syenite dikes and quartz veins (ODMNA files, Kirkland Lake).

C. Cole (34) (300 metres northeast of TL4800N/3500E)

In Maisonville Township, near the boundary between concession III, Lot 7, north half, northeast quarter and concession IV, Lot 7, south half, southeast quarter, four pits were sunk by Crown Reserve Mining Company Limited in 1914. The pits are in fractured silicified mafic volcanic rocks cut by a feldspar porphyry dike. The volcanic rocks contain disseminated pyrite and blebs and irregular stringers of pyrite and pyrrhotite with minor amounts of chalcopyrite. Two samples analyzed by The International Nickel Company of Canada Limited contained 0.03 and 0.04 percent nickel, according to notes by W.S. Savage (in ODMNA files, Kirkland Lake); also see Shklanka, R. (1969).

Elzina Mines Limited (35)

In Maisonville Township, concession IV, Lot 10, south half, narrow quartz-carbonate veins cut hornblende syenite and gabbro. The No. 1 vein, striking N60E and dipping 50 to 70N, ranges from 3

to 14 inches wide along its stripped length of 200 feet. Grab samples taken at intervals along the vein returned assays of: .02, .03, .02, .01, and .25 oz gold per ton (D.K. Burke 1938). Three holes have been drilled on the property, but no information on them is available.

The Golden Summit Mining Company Limited (36)
(approximately 200 metres south of TL1576N 4480E)

In Maisonville Township, concession I, Lot 6, north half (formerly the Jensen farm) a gold-bearing quartz vein was discovered south of Kapakita Creek, in 1913. The vein was 6 inches wide and was traced for 150 feet. In 1919, the Golden Summit Mining Company Limited was incorporated to take over the property, and in 1921, a pit on the discovery vein was deepened to a depth of 27 feet. In 1924 the company was reorganized to Golden Summit Mines Limited. During 1929 and ensuing years a shaft collared 450 feet west of the old pit was deepened to 405 feet and lateral work was done on the 125-, 250-, and 375-foot levels. A small mill installed in 1935 produced during 1936 and 1937. By 1937, when mining ended, some stoping had been done on the 125-foot level. From 737 tons of ore, total production worth \$3,738 was recorded with the Ontario Department of Mines for 1936, 1937, and 1945, when mill clean-up was carried out (ODM 1953, p.16).

Most of the gold is in pyrite-containing quartz-carbonate veins cutting basalt, diorite, syenite, and lamprophyre. Assays of .16 oz gold and less were obtained in the shaft station at the 125-foot level, and .08 oz gold or less along the crosscut (Odell 1930). The shaft was sunk in the vicinity of two narrow east-trending quartz veins about 40 feet apart, the south vein being the discovery vein. Immediately east of the shaft is a strong shear zone trending north, parallel to the strike of the flow. The east wall of the shear is a lamprophyre dike about 50 feet wide. The most important vein encountered underground was exposed in the northwest crosscut on the 125-foot level. It was a high-grade quartz vein striking east and ranging in width from 2 inches

to 10 inches. It has been intersected and displaced by a flat fault dipping west. The wall rocks adjacent to the vein were highly fractured and veined with red feldspathic material; they contained gold.

Hastings-Moffat (37)

In Maisonville Township, concession II, Lot 8, south half, southwest quarter, five holes were drilled in 1934 by Erie Canadian Mines Limited, the exploration subsidiary of Sylvanite Gold Mines Limited. This drilling totalled 464 feet consisted of quartz veins striking and dipping in several directions, in an area having a diameter of about 400 feet. The host rock is syenite and altered mafic rocks. A few short intersections (average 2 feet) contained gold yielding about .02 oz gold per ton. The best assay of several samples from pits in Lot 8 and 9 yielded .17 oz gold per tone (Erie Canadian 1934 - ODMNA files, Kirkland Lake).

Labine-Smith (41) (Surrounded by the Glen Auden Resources property on Patented Ground-south and east of Area 12.)

In Maisonville Township, concession II, Lot 9, north half, southwest quarter and northwest quarter, and Lot 10, north half, northeast quarter, five pits and trenches were carefully sampled (ODMNA files, Kirkland Lake, report signed G.W. Dixon, August 10, 1914). Most assays for gold were less than .04 oz gold per ton and for silver were less than 1 ounce per ton.

A shaft with an average dip of 35 degrees, had been sunk to a depth of 80 feet on a narrow quartz vein carrying free gold and tellurides.

Sidney, A. Pain (45) (200 metres south of TL3191N/1000E 200 metres from property boundary)

In Maisonville Township, concession II, Lot 10, north half, northwest quarter, native gold was discovered in quartz veins and oxidized wall-rock on the former "Malouf" claim (Burrows and Hopkins 1914, p.35). The decomposed material from the

quartz veins, which are narrow and dip gently west, was treated in an arrastra at the base of the hill near the railway track.

Warren Peterson (46) (In the northwest corner of CL803558)

In Maisonville Township, concession IV, Lot 9, south half, northwest quarter, in the northwest quarter of the claim (formerly numbered L46158), is the main (copper) showing. The showing is on the east side of a north-trending ridge of mafic volcanic rocks and consists of syenite and mafic volcanic rocks cut by quartz stringers containing cubic pyrite and fine-grained chalcopyrite. A dike of "pebble" lamprophyre cut by a feldspar porphyry stringer occurs in the northeast corner of one pit. In 1952, three holes (totalling 1,000.5 feet) drilled near the showings intersected a number of weakly mineralized zones in sheared and massive mafic volcanic rocks cut by syenite dikes (OMNA files, Kirkland Lake).

A. Pudden (47) LOT 8 in the vicinity of claim 778377

In Maisonville Township, concession II, Lot 8, north half, northwest quarter and southwest quarter, and in Lot 10, south half, southeast quarter, nine holes, totalling 416 feet, were drilled in 1955. The holes were spaced along a north-striking line about 1/2 mile long. Judging from the azimuth of eight of the nine holes, the veins dip east. The holes intersected quartz veins cutting mafic intrusive rocks containing sparsely disseminated pyrite and chalcopyrite (OMNA files, Kirkland Lake).

J.G. Russell (48) (In a patented claim 100 metres south of CL 798865 southwest of Olson Lake)

In Maisonville Township, concession III, Lot 9, south half, southeast quarter, near the No. 1 post of claim L15833, a rusty silificied shear zone has been exposed by pits on the west-facing slope of a hill adjacent to a swamp. The strike of the shear zone, which is in mafic volcanic rocks, is N10W and the dip is about 65W.

Irregular quartz stringers and feldspathic material cut the sheared rocks, which contain finely disseminated pyrite and minor molybdenite.

About 500 feet southwest, on the western side of a low outcrop, a quartz vein 4 to 6 inches wide strikes north and dips 20 to 40 west through pillowed volcanic rocks. A narrow streak of darker pyrite-bearing quartz on the footwall is said to have contained gold and tellurides, according to notes by W.S. Savage (in OMNA files, Kirkland Lake). In the south trench the vein forms a zone having a maximum width of 4 feet.

About 150 feet east of the trench, on the eastern side of a low north-trending ridge of volcanic rocks near the centre of the claim, brecciated andesite is cemented with a fine network of quartz-carbonate-feldspar stringers reported to have contained molybdenite.

On knoll about 250 feet south of the above showing, quartz-carbonate-feldspar stringers, an average of 1 inch wide, cut brecciated andesite containing pyrite and epidote. The eastern side of the knoll is cut by a syenite dike, and a sample from a trench cut through the knoll from east to west is said to have yielded .14 oz gold per ton across 22 feet, according to Savage.

Sesekinika Townsite (49)

According to notes by Sylvanite Gold Mines Limited (in OMNA files, Kirkland Lake), during 1914 some free gold was found by James L. Hughes on claim L4034 in Maisonville Township. The gold was in a narrow quartz vein dipping 15NW. About 1916, Hughes sold the property to Walter Young (of Toronto) and New York interests.

The part of the "Hastings-Moffat" claim L4035 (which is described separately but is redescribed here by Lovel since it is also part of this property) that is in Maisonville Township, concession II, Lot 8, south half, southwest quarter, was drilled during 1934 by Erie Canadian Mines Limited, the exploration subsidiary of Sylvanite. Five holes, totalling 464 feet, were

drilled to intersect a quartz vein 2 feet wide that strikes east and dips 60N. A few short intersections (average 2 feet) contained gold yielding about .02 oz per ton. The best assay from several samples from pits in Lots 8 and 9 yielded .17 oz gold per ton (Erie Canadian Mines Limited 1934).

SURVEY PROCEDURES

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 opposite direction to the original applied current, and start a current

flowing in the opposite direction.

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 $V(t = \infty)$ 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

Parts of this survey were conducted using a dipole-dipole array with a dipole length of 50m and array spacings of $n = 1,2,3,4$ dipoles. This array configuration involves having two dipoles separated in turn by each 'n' interval moving in-line down each survey line. One dipole is the receiver measuring V_p , the potential, and the other dipole is the transmitter.

The survey was also conducted using a pole-dipole array with a dipole length of 50m and array spacings of $n = 1,2,3,4$ dipoles. This array configuration involves having a dipole for the receiver measuring V_p , 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

Robert S. Middleton Exploration Services provided four-man crews to complete the IP surveying. The surveying was completed with either a Scintrex IPR-8 or IPR-11 at different stages of the survey. Specifications for this equipment are in Appendix A.

Transportation was provided by Middleton Exploration in the form of a 3/4-ton pick-up truck or a Suburban. The crews were accomodated at the Lava Mountain Lodge in Ramore, Ontario.

INTERPRETATION

GRID 1

A major anomalous chargeability zone occurs on this grid. It is one broad unit at 4550E on L3300N, and extends south in two "legs", at about 4450E to 2850N and at about 4600E to L2750N. (Further anomalies at 4475E on L2560N and 4500E on 2360N could be related to either leg). North of L3300N, at which line the anomaly is about 175m wide, it becomes narrow and extends north as a single anomaly.

The strongest parts of the anomaly occur in the region where several cherty sulphide-facies iron formations outcrop, and so is a significant location for possible gold mineralization.

If good drill results are obtained in this region, step-out

holes along one or both "legs" to the south should be considered.

GRID 7

The major anomaly on grid 7 occurs from 4000E on L2750N to 3950E on L2360N. It is roughly on strike with the conductors detected by the INPUT anomalies discovered north of this location by the government airborne survey. The anomaly on line 2360N occurs near outcrops of iron-poor tholeiitic basalts which show some silicification. These anomalies are significant drill targets to examine for alteration and gold mineralization. An anomaly also occurs at approximately 3500E on L2750N. This is very close to a large outcrop of iron-rich tholeiitic basalt from which samples showed maximum gold concentrations of 50ppb.

GRID 3

The major anomaly on grid 3 crosses the north end of the lines at about 2100N to 2200N. It is a strong anomaly in an area covered by overburden. Detailed geologic mapping of the area of the anomaly found several outcrops of both iron-rich and iron-poor tholeiitic basalts in the area but with insufficient (1-2%) amounts of pyrite mineralization to explain an anomaly of such strength.

Three other weaker anomalies were detected on grid 3, at 1950N on L3350E, 1900N on L150W, and at 2175N on L50W. These anomalies occur near an area of old trenching where exposed

quartz and quartz-pyrite veins with disseminated molybdenite assayed from 300ppb gold to as high as .96 oz/ton.

These anomalies, although small and isolated, probably indicate areas of greater pyrite mineralization in the quartz veins in the area, and so should be sampled by diamond drilling or trenching.

GRID 2

Grid 2 is located on a square four claim block north and west of the old Bennet shaft, from which an indeterminate amount of gold was reported to have been recovered in the 1930's. There are many IP anomalies on grid 2. The strongest is from 1300E on L3010N to 1500E on 3460N. It is broad and weak in the south, with a narrow strong zone forming in the centre of the weak zone. North of L3260N only the narrow, stronger zone continues to L3460N, where it appears to be lost at depth, rather than end. There is little outcrop along the length of the anomaly, except at L3260N where an outcrop shows the contact between iron-rich (east) and iron-poor (west) tholeiitic basalt pillows. There is evidence in samples from this zone of epidotization and carbonatization, both of which are often associated with gold mineralization.

This anomaly may continue north of line 3460N at 1625E on 3660N where an anomaly appears and continues to the north, but the relation is uncertain.

A moderate anomaly occurs at about 1700E from L3610N to 3260N. This anomaly has a well defined shape and thickness (about 50m).

A broad, anomalous zone occurs from L2810N at 1550E to 3210N at 1825E. It is a broad, weakly to moderately chargeable zone that varies greatly in thickness. This zone is of particular interest because there are a number of gold assays from 1500ppb to 1830ppb in the zone.

At 1700E-1725E on L2960N is a strong narrow low resistivity anomaly, which may represent a shear zone.

Line 3610 and those to the north were extended east to cross the INPUT anomaly at about 2075E, but this was not possible because of a large swamp. An anomaly was detected at 1950E leading into the swamp, but could not be completely detailed. Another weak zone was discovered at 2300E on 3610N and 3710N.

A moderate anomaly was detected at 1950E on 3360N and 3410N, after which it went off of the east boundary of the grid onto the patented claims. This anomaly is mentioned because it is on strike with the airborne anomaly just mentioned.

GRID 4

The induced polarization results for grid 4 are dominated by a broad high trending north east across the centre of the grid.

This anomaly is part of a wide weak zone, with two very

strong central axis, one at 1875E on 1600N to 1950E on 1650N, and then a parallel, offset axis from 2075E on 1650N to 2150E on 1750N.

The peaks of this anomaly appear to coincide with ridges where the bedrock (iron-rich tholeiite) shows through the overburden, but the strength and depth of these anomalies is due to more than just topographic ridges. Approximately 1% pyrite was observed in these outcrops, which is too little to create such a strong (40 msec +) chargeability anomaly.

GRID 6

The only anomalies detected on grid 6 were weak, near surface anomalies, at 2200E on L5050N and at 2150N on L5150N.

CONCLUSIONS AND RECOMMENDATIONS

GRID 1

The anomaly on grid 1 should be further investigated, by overburden stripping and diamond drilling. The cherty iron formations near 4550E on lines 3150N to 3350N create a good environment for gold mineralization. The north-south shear zone at 4575E is also a favourable target along the eastern "leg" of the anomaly.

GRID 7

The major anomaly of interest on grid 7 is the one at 4000E on the northern three lines. Although no assays exist from the outcrops near this anomaly, drilling by Noranda on the airborne anomaly further north intersected cherty sulphide-facies iron formations, which are a good environment for gold mineralization. The anomaly at 4000E should therefore be tested by diamond drilling and trenching.

GRID 3

The southern trio of anomalies (1950N, 1900N, and 2175N) should be further investigated by trenching and/or diamond drilling. They are in a region of quartz stringers, and a shear zone passes through between lines 50W and 150W, striking 165°-175°. There is strong silicification and pyrite mineralization, and significant carbonatization, sericitization, and molybdenite mineralization. Near the anomaly on line 150W at

1900N a sample was collected which assayed at 0.96 oz/ton of gold.

The anomaly at 2100N-2200N should be further investigated and sampled. The strength and continuity of this anomaly indicates that it is due to more than unaltered iron-rich tholeiites. A program of trenching to expose more rock over the anomaly is suggested, if overburden thicknesses allow.

GRID 2

There are several good targets on grid 2 for further work. The series of anomalies at 1600E on line 2810N to 2960N occur in an area of high gold assays (3 assays 1500ppb or greater) with many syenite porphyry dikes and quartz veins, often with intensely pyritized selvages.

The anomaly from 1300E to 1500E, L3010N to 3460N is significant as it is centered on an outcrop (L3260N) of tholeiitic basalts which has quartz stockwork and carbonatization. Further sampling by trenching or diamond drilling should be carried out near this outcrop, and if good assays for gold result, the work should be extended along the anomaly.

The anomaly at 1800E on L3010N should be further investigated as it occurs in an area with syenite dikes cutting through the tholeiites, and where a significant gold assay (1830ppb) was found.

GRID 4

Most of grid 4 shows high chargeability due to the iron-rich nature of the tholeiites, but the two highest value zones should be further investigated by trenching or drilling. The area has numerous porphyritic syenite dikes, and extensive quartz vein stockwork, and so is a good environment for gold mineralization.

GRID 6

There were no strong anomalies observed on grid 6, but the induced polarization coverage is minimal. Sample 67862 from a shear zone assayed 11,000ppb gold and significant syenite dikes, cherty iron formations and carbonatization were observed, so extension of the IP coverage is recommended.

Respectfully submitted



Greg Hodges
Geophysicist

REFERENCES

Caira, Nadia
October 2, 1985

Geological Report on the Property
of GLEN AUDEN RESOURCES LIMITED,
Maisonville and Grenfell Townships,
Larder Lake Mining Division,
District of Temiskaming.

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 Glen Auden Resources Inc. property in Maisonville Township, Province of Ontario and dated September 30, 1986:

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 six years.
4. I have no direct interest in the properties, leases, or securities of Glen Auden Resources 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 September 30, 1986
Timmins, Ontario



D. Greg Hodges, Geophysicist

IP PSEUDOSECTIONS
for
GEOPHYSICAL REPORT
on the
Maisonville Township Property
of
GLEN AUDEN RESOURCES INC.
by
Greg Hodges
September 30, 1986

RECEIVED

MAR 25 1987

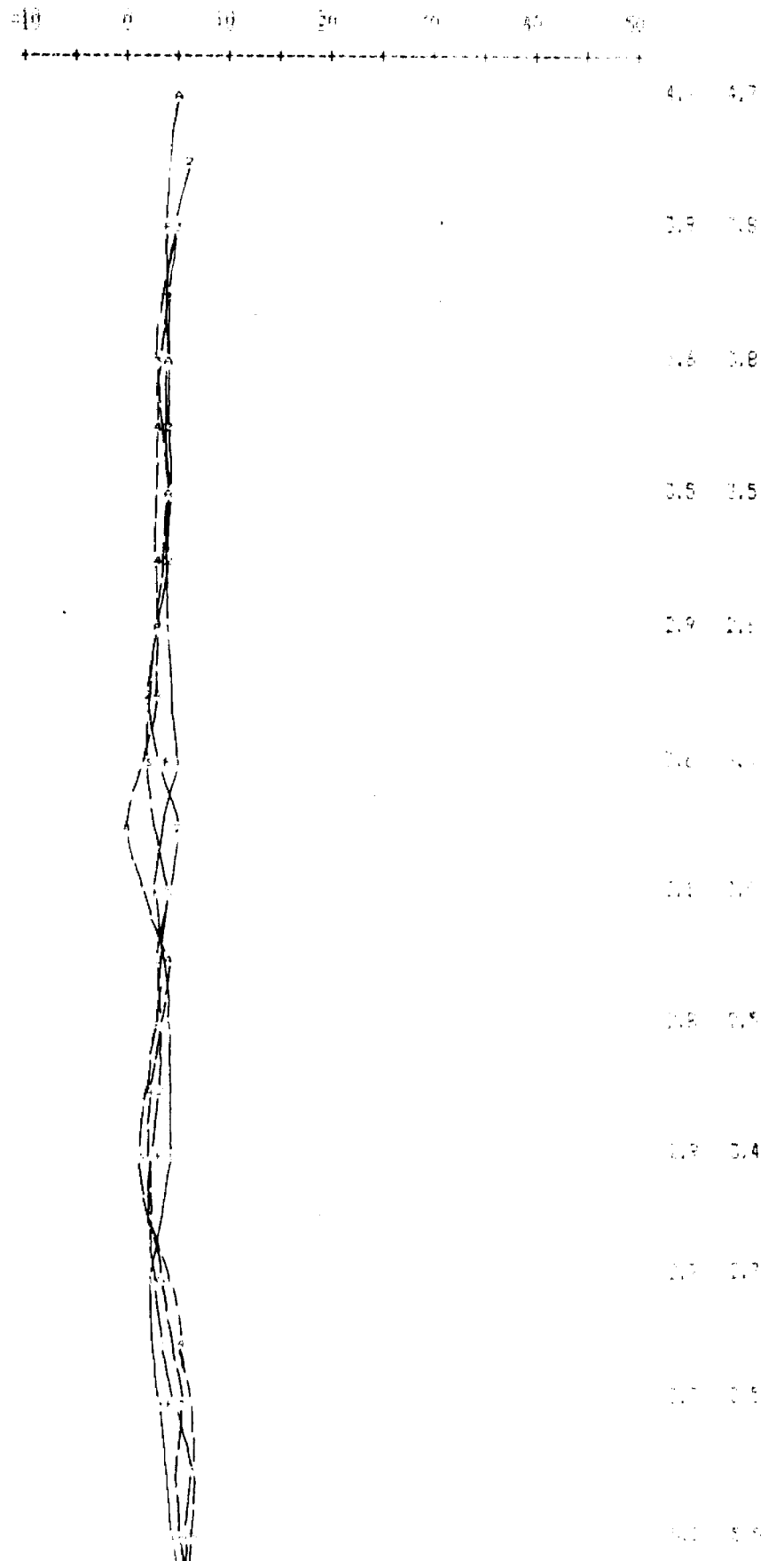
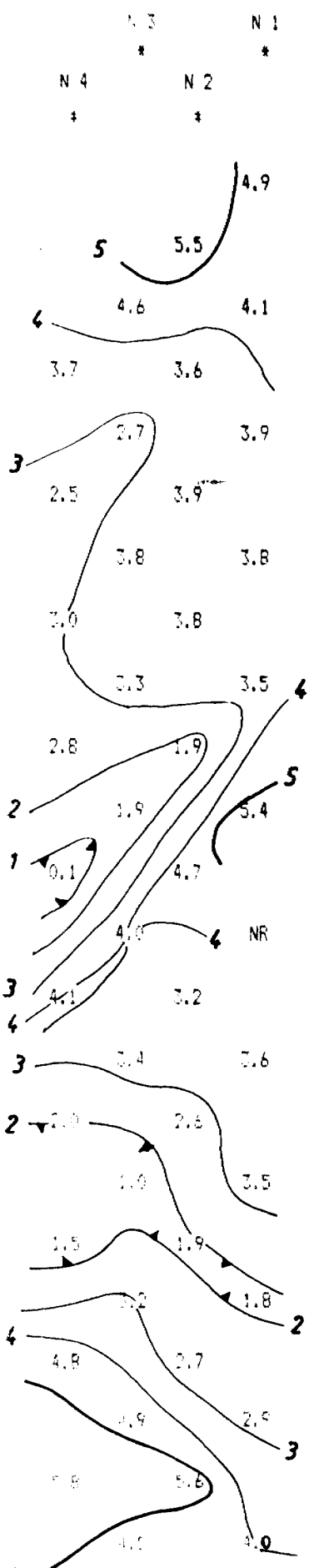
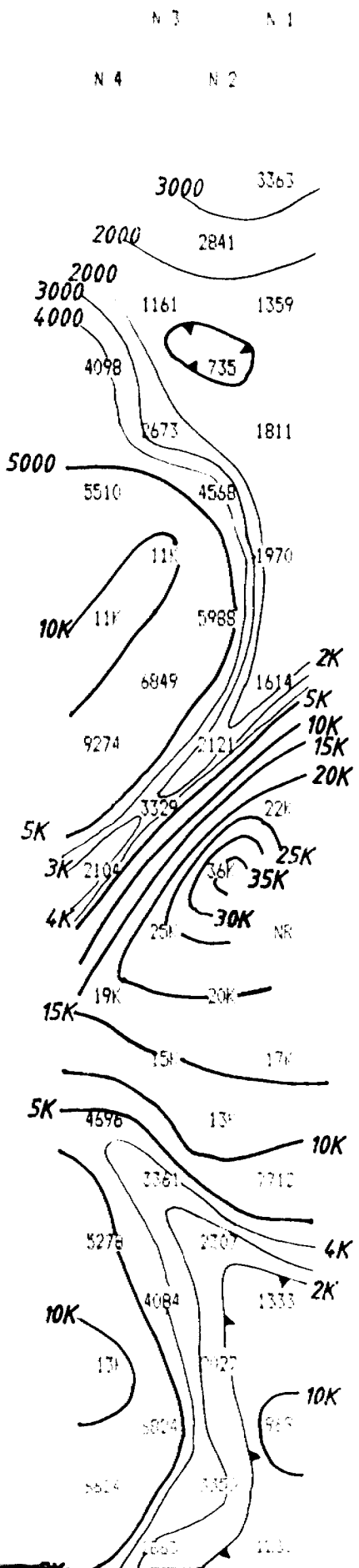
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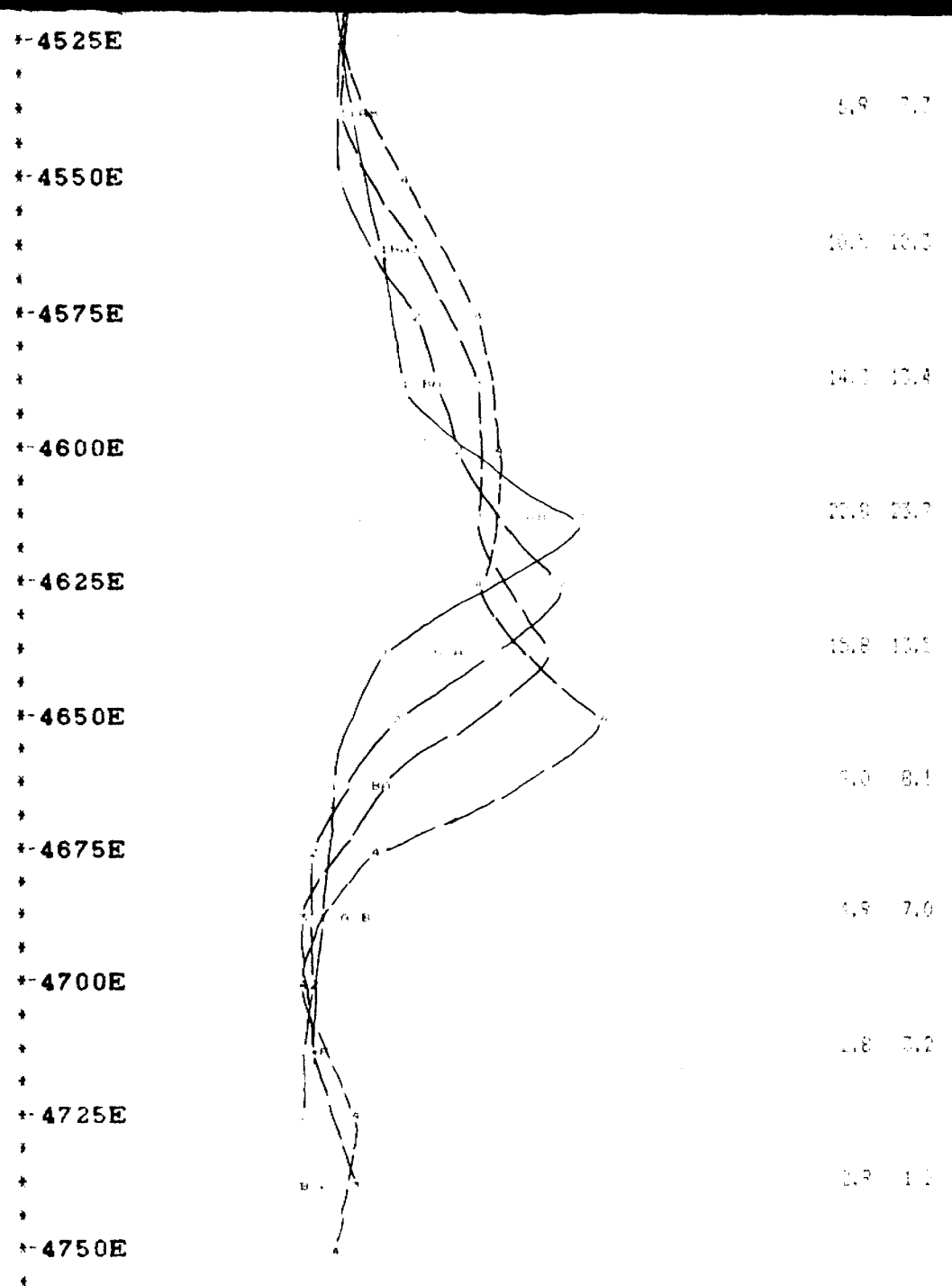
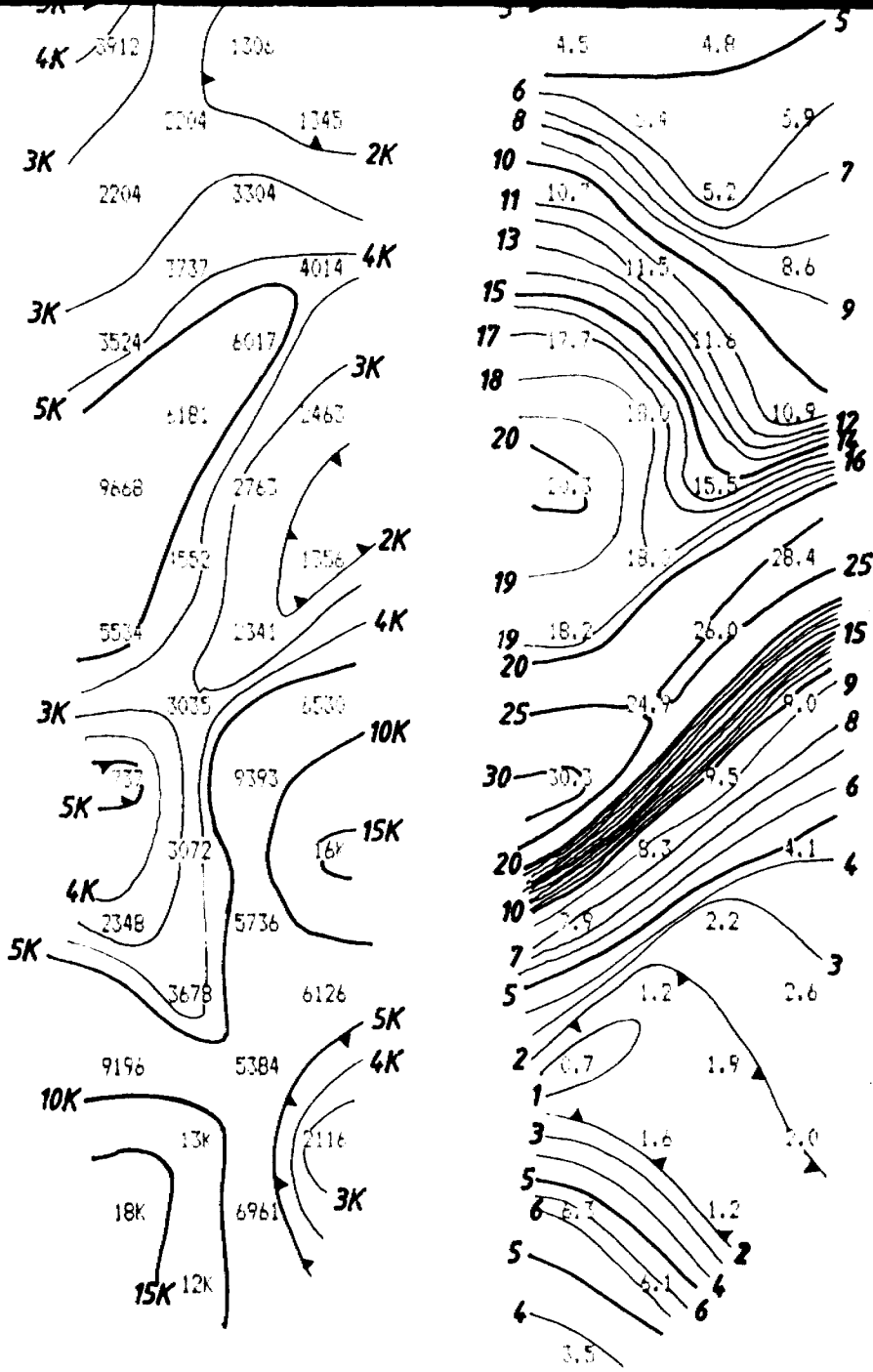
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RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

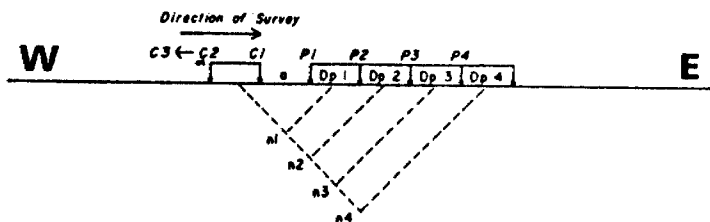
CHARGEABILITY PROFILE





Property : MAISONVILLE TWP. GRID 1
 Client : GLEN AUDEN RESOURCES LTD.

Date of Survey : 10/6/86
 Operator : CGK
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX TSQ-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms
 Slice # 7 Plotted



Greg Hodges

 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4

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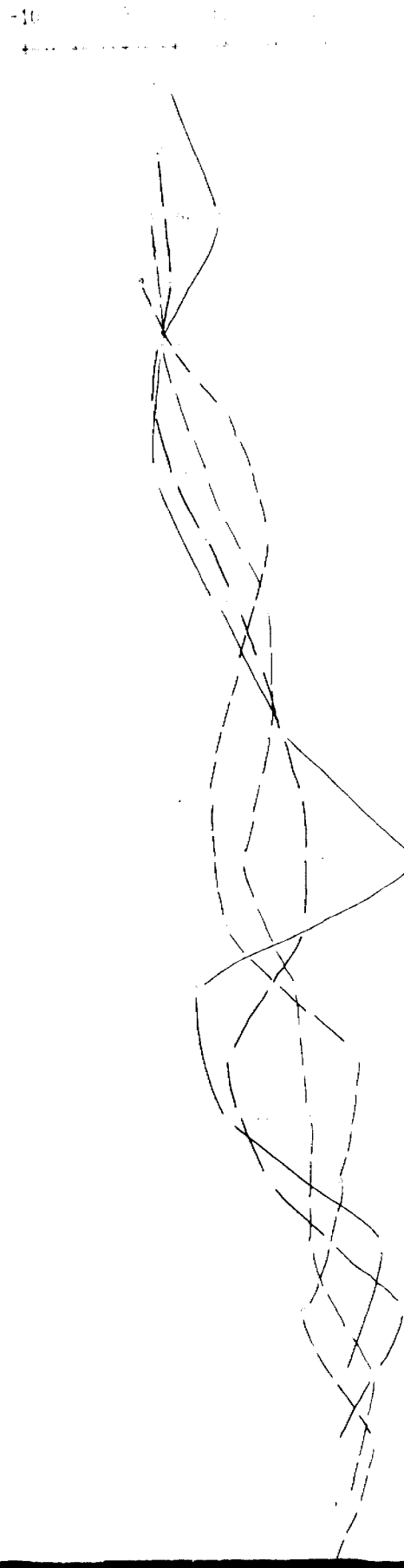
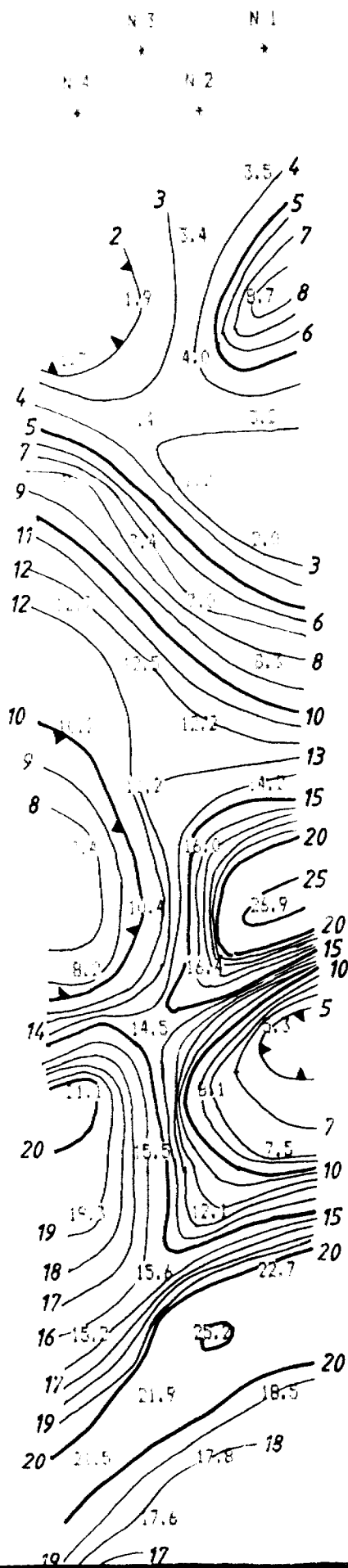
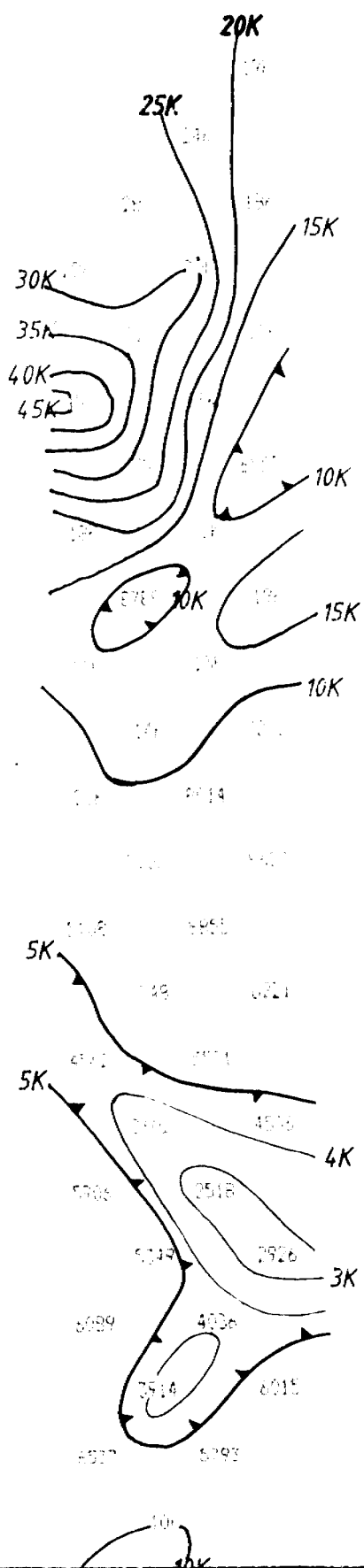
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SCALE = 1 : 1250

RESISTIVITY
(ohm-meters)

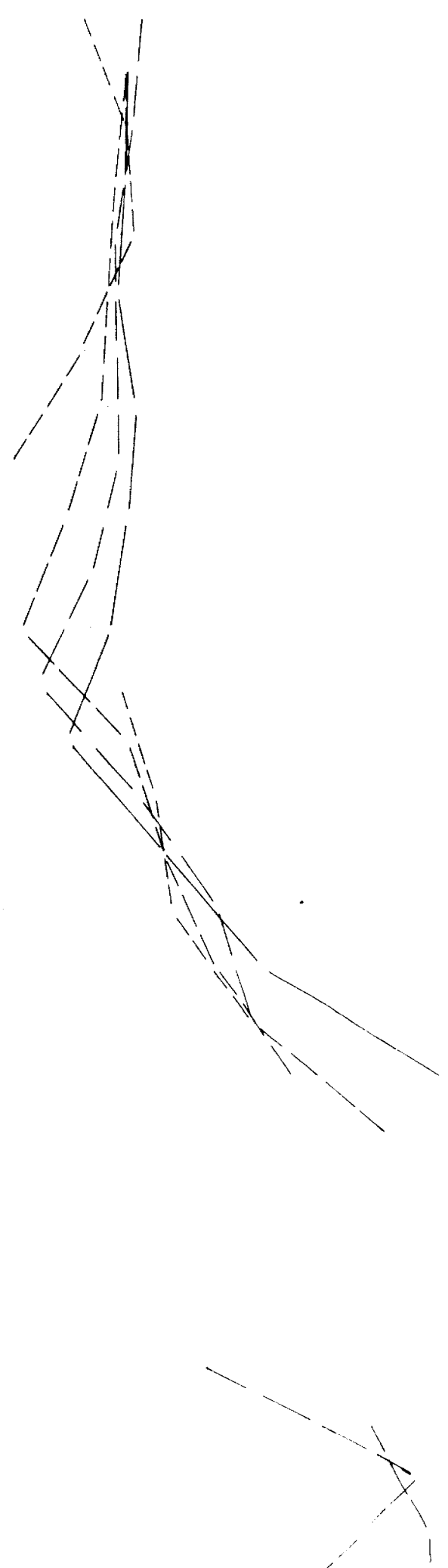
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(milliseconds)

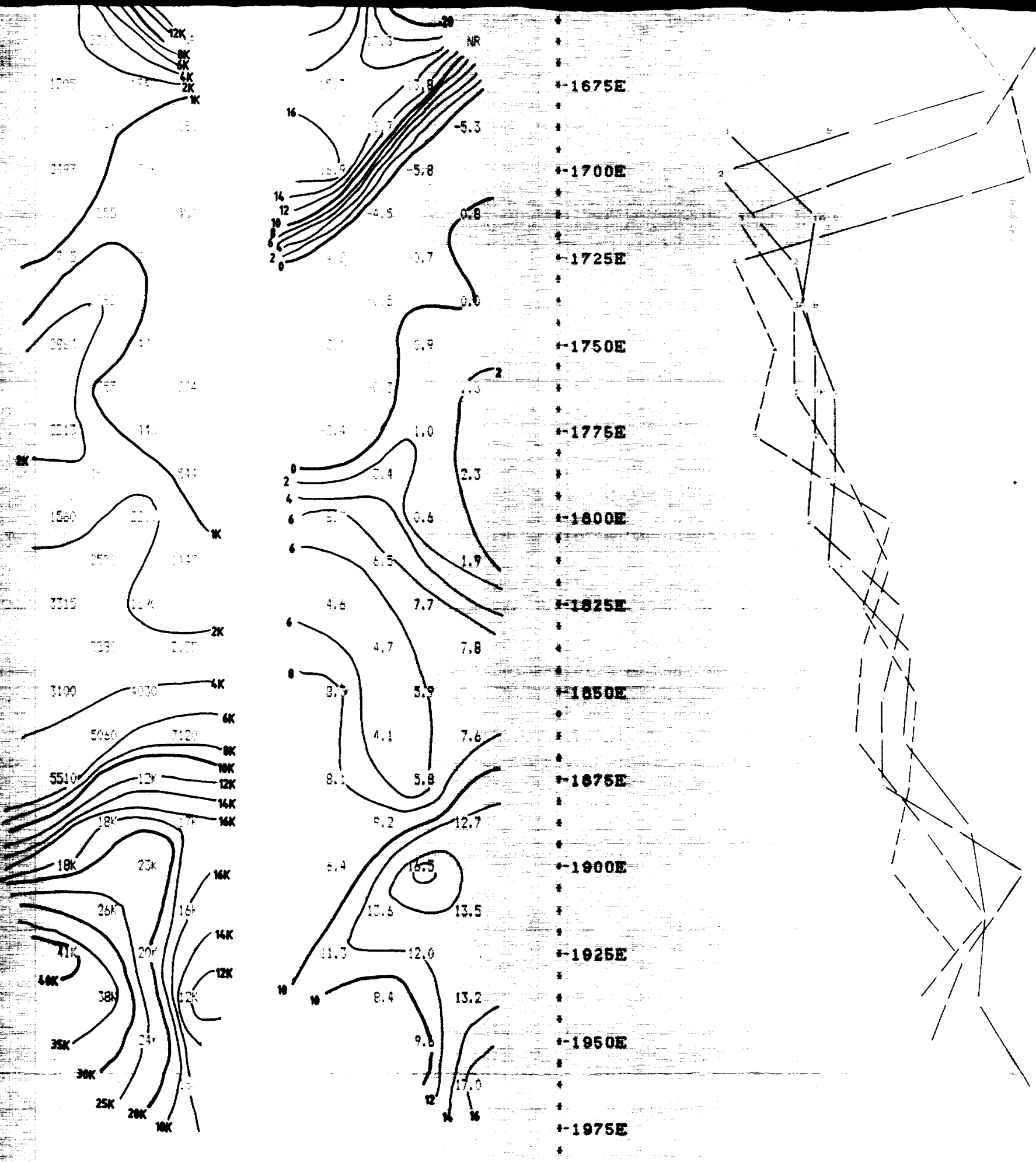
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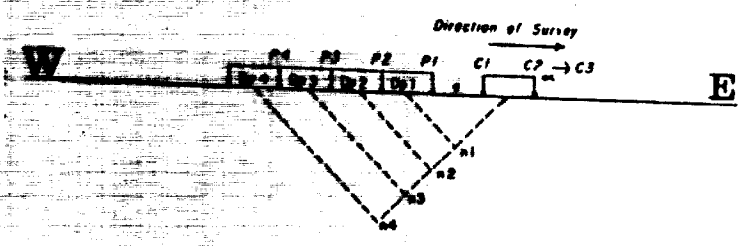
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 13000E
 13250E
 13500E
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 14000E
 14250E
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 14750E
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 15500E
 15750E
 16000E
 16250E





Property : MAISONVILLE TWP.
 Client : GLEN AUDEN RESOURCES

Date of Survey : 14/8/86
 Operator : CGK
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX TSQ-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay time : 360 ms
 Integration Time : 780 ms



Greg Bridges

 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 1

'a' Spacing = 25 M

LINE 2860 N

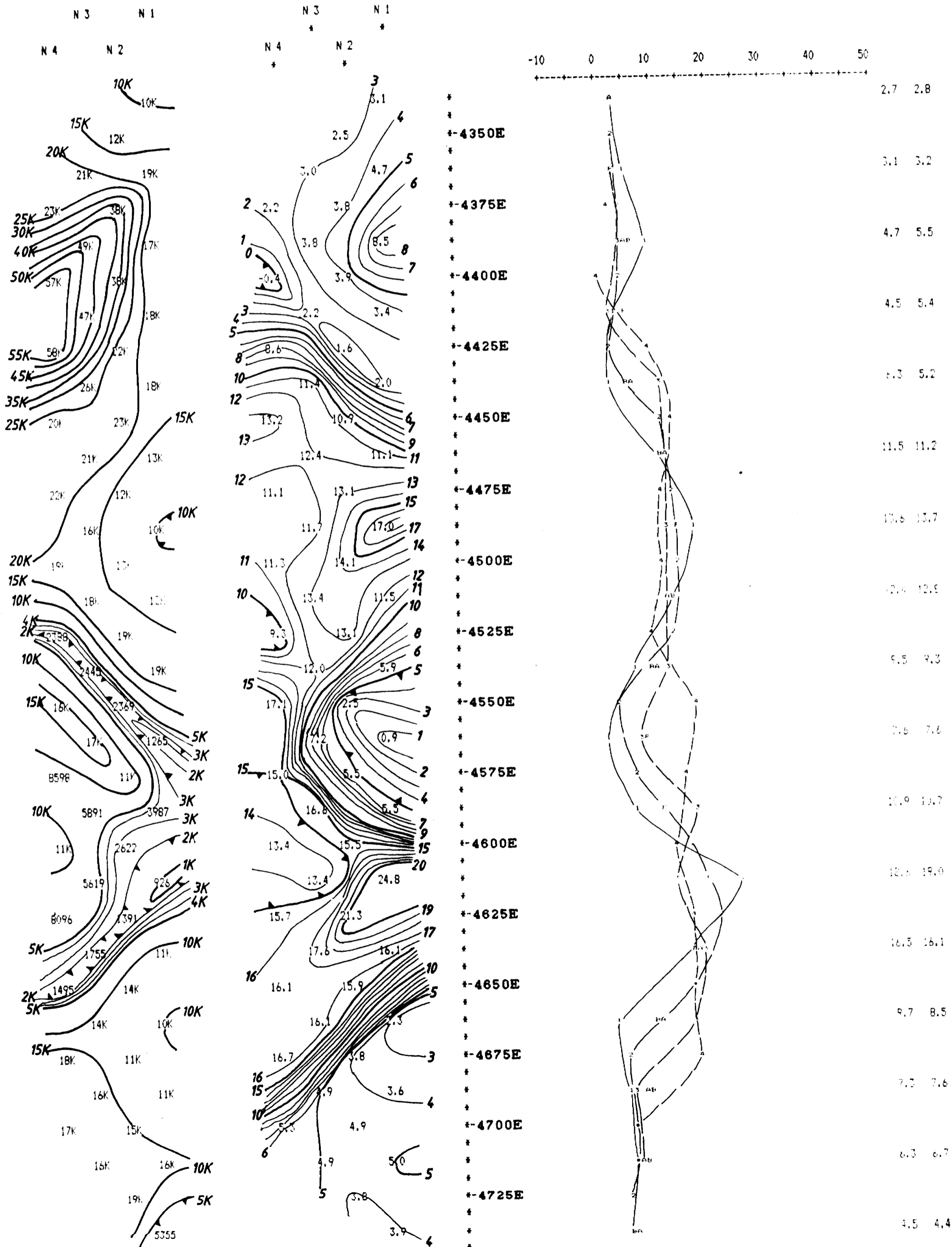
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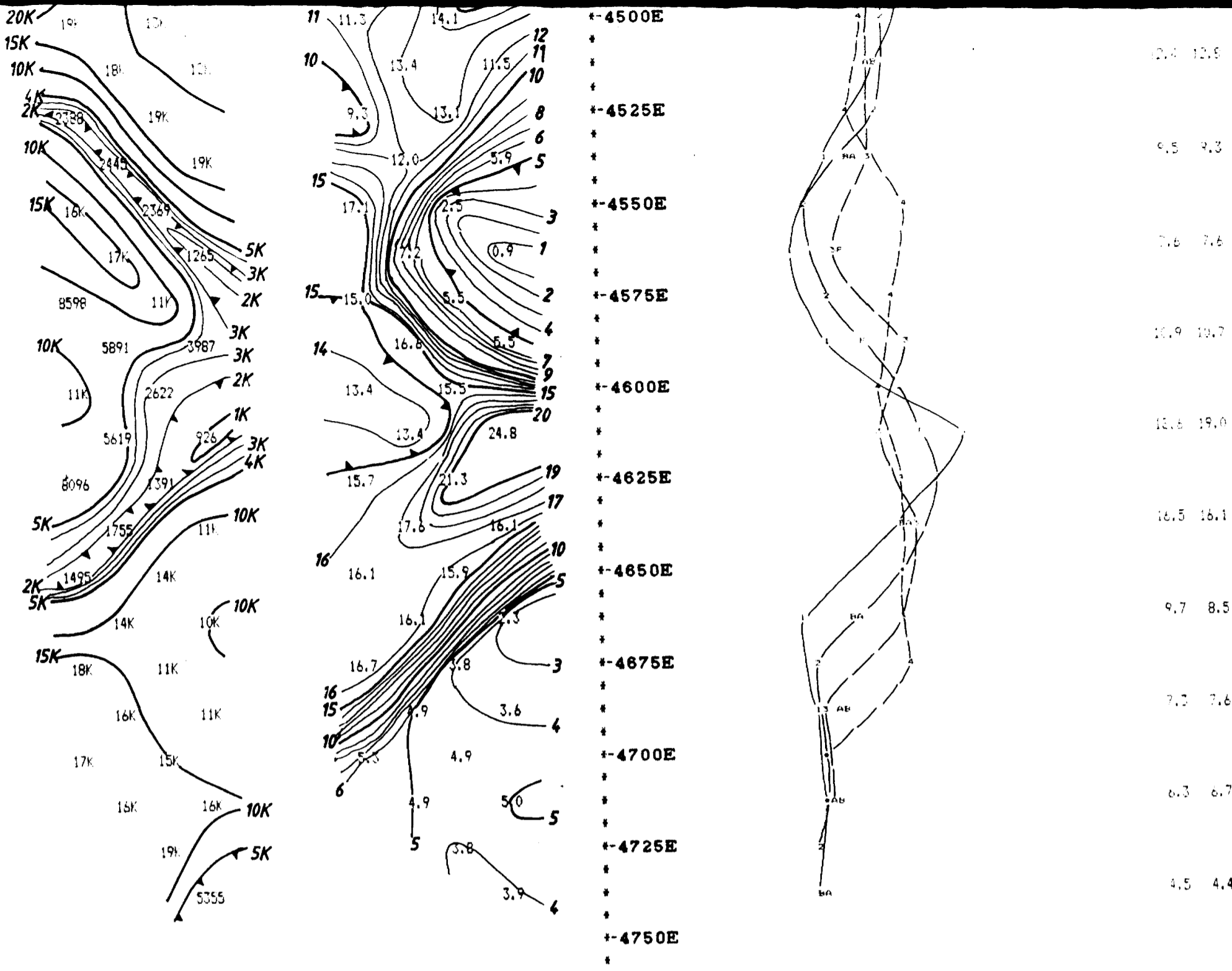
F I L T E R
A B

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

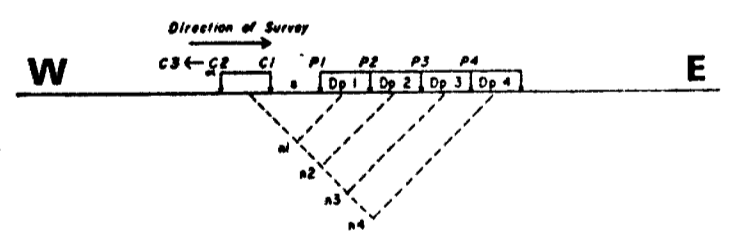
CHARGEABILITY PROFILE





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 Client : GLEN AUDEN RESOURCES LTD.

Date of Survey : 11/6/86
 Operator : CGK
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX TSO-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms
 Slice # 7 Plotted



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4
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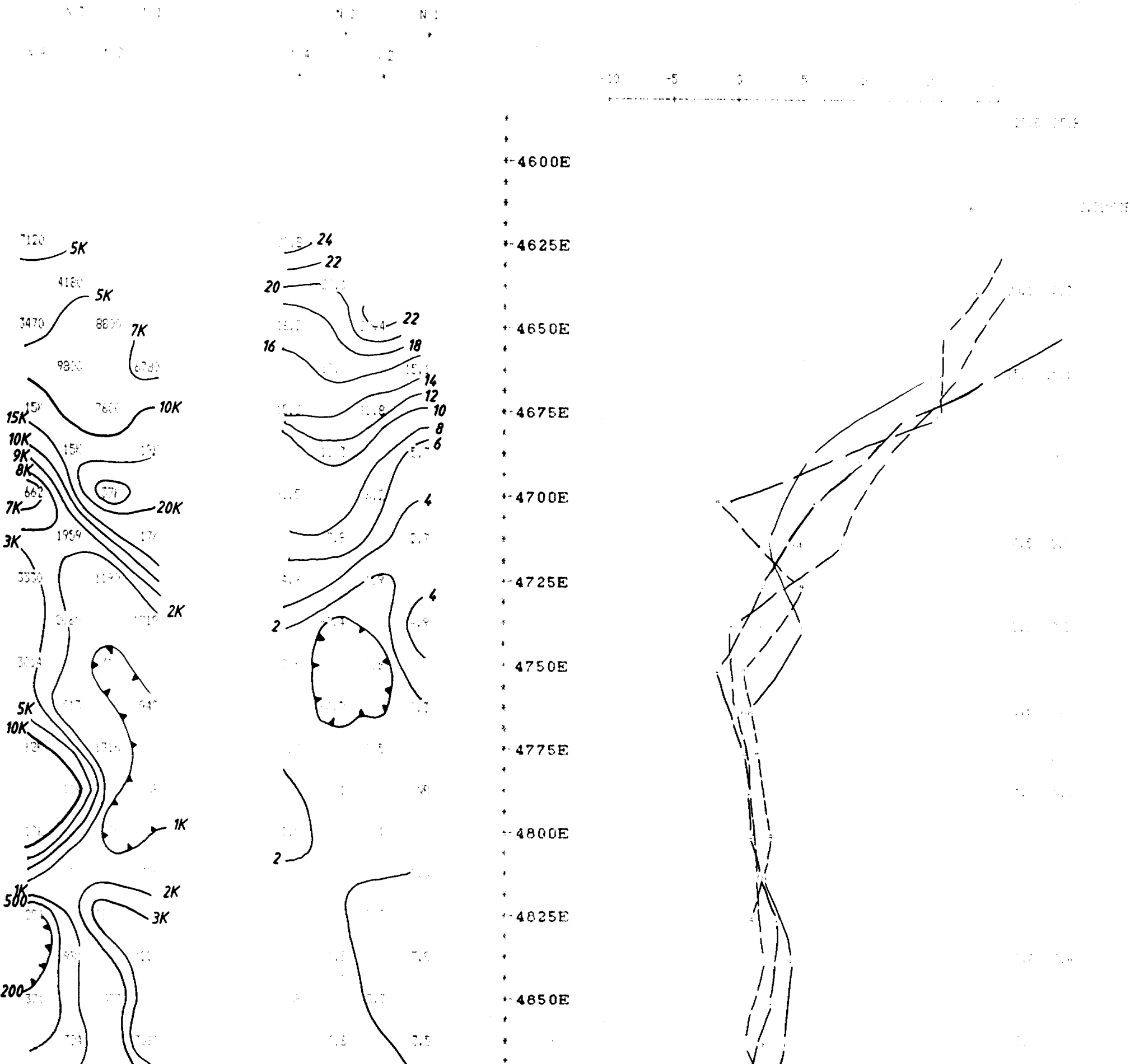
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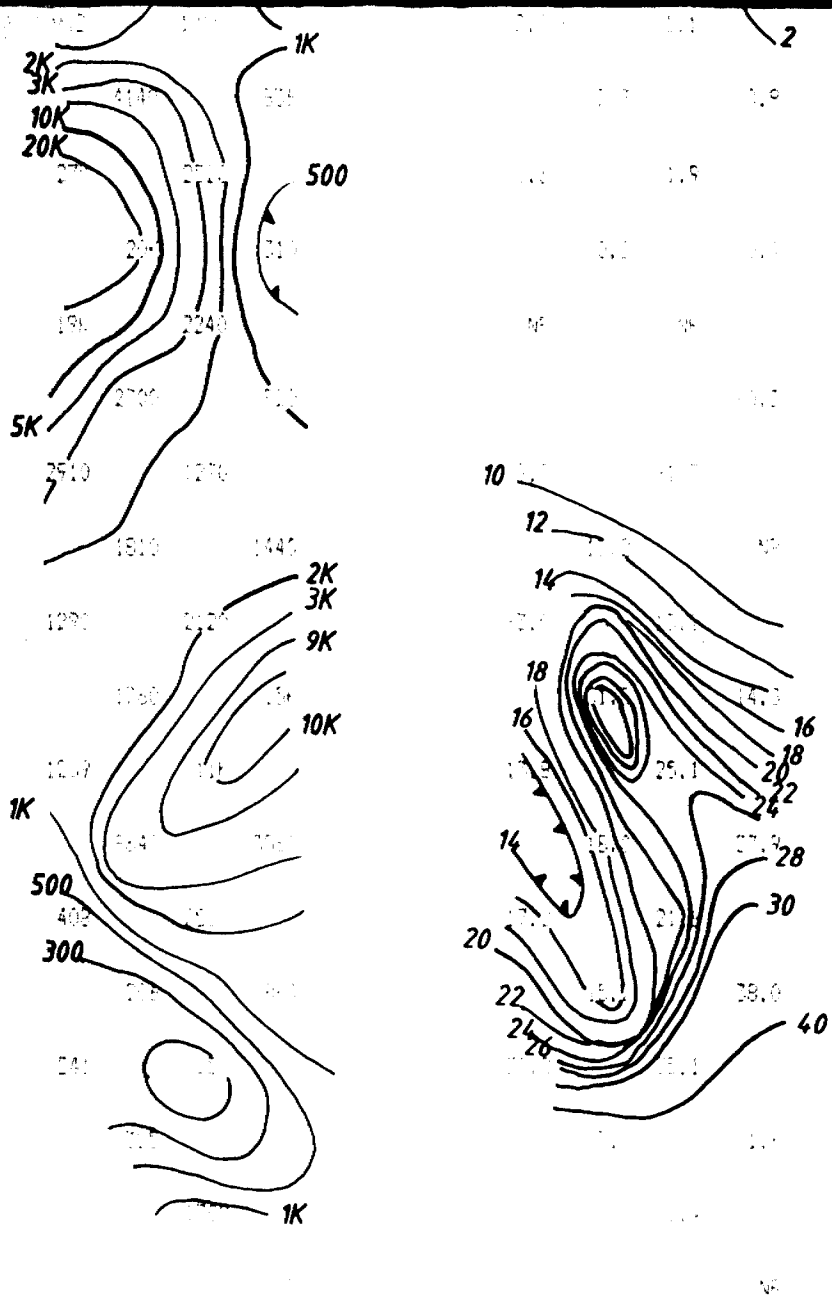
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RESISTIVITY
ohm meters

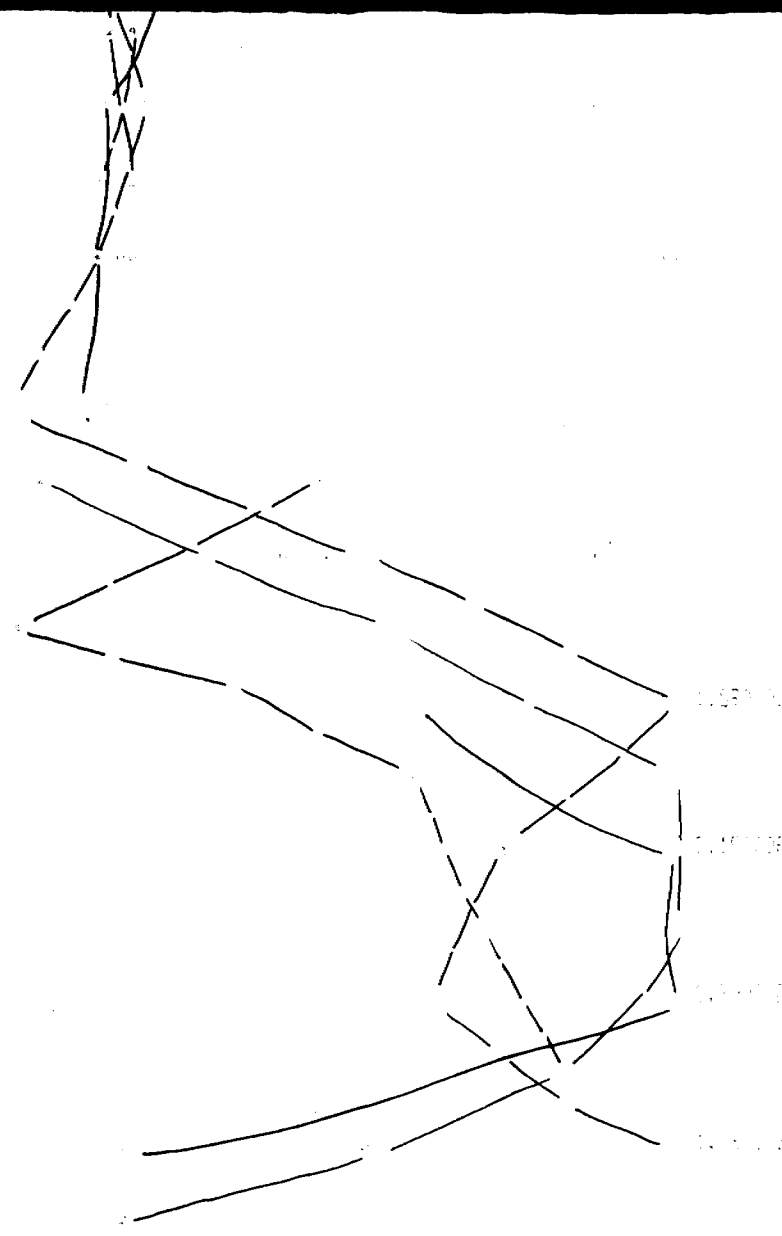
CHARGEABILITY
microseconds

CHARGEABILITY
microseconds

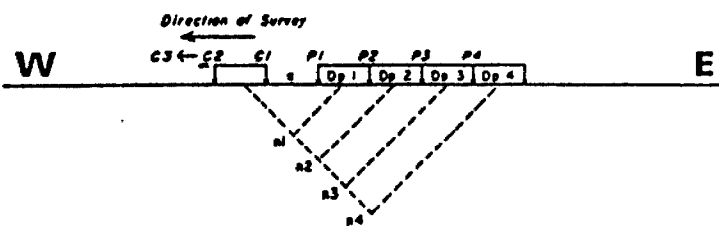




4875E
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 5050E
 5075E



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 Client : GREEN WOOD RESEARCH
 Date of Survey : 17/8/04
 Operator : GJ
 Electrode Array : DHEM1 - GEODET
 Mode : TIME DOMAIN
 Receiver : SCINTREX 10K-11
 Transmitter : SCINTREX INC 24000W
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 700 ms

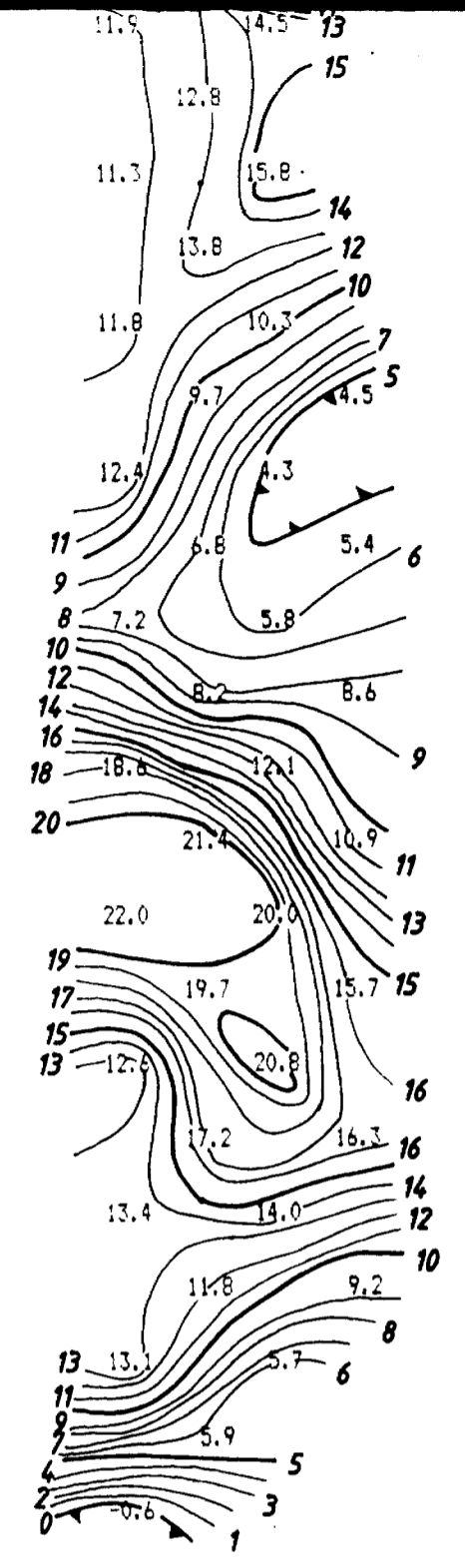
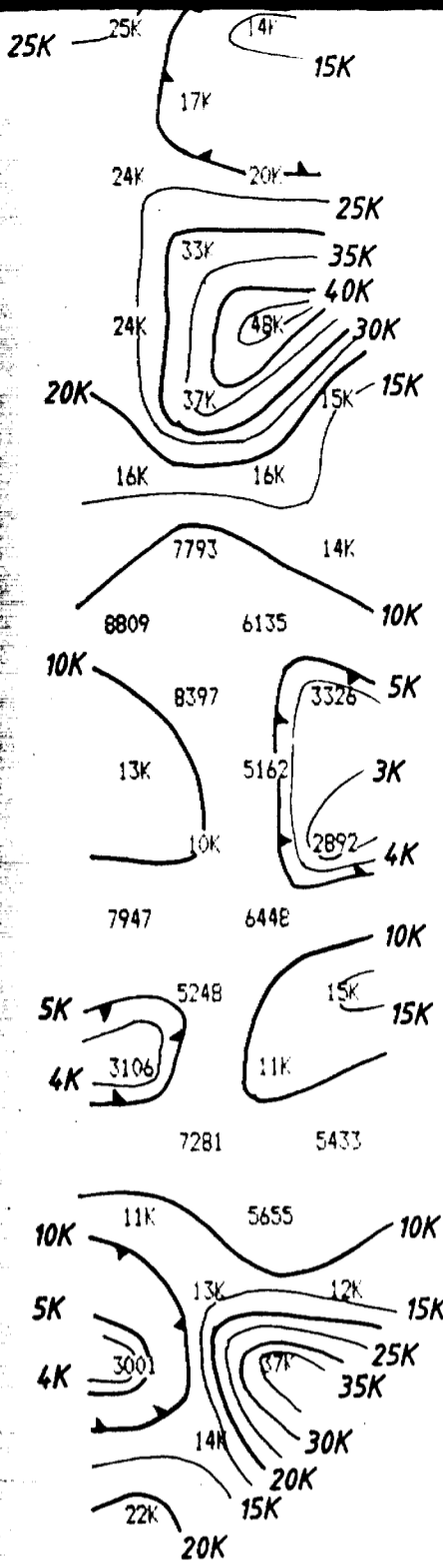


Greg Bridges

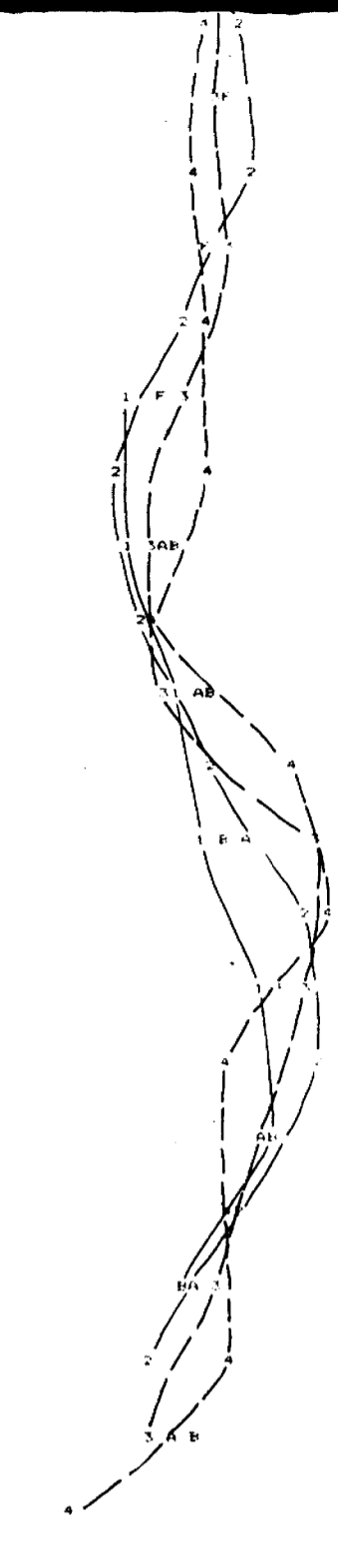
 R.S. MIDDLETON EXPLORATION
 SERVICES INC.

IF Pseudosections for N = 1 to 4
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LINE 3100 N



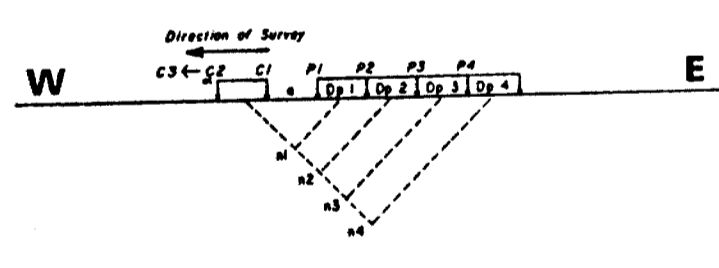
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13.6	14.0
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7.8	8.7
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14.6	12.7
18.1	17.9
16.3	16.9
10.1	9.2
7.7	10.3

Property : MAISONVILLE TWP. GRID 1
 Client : GLEN AUDEN RESOURCES LTD.

Date of Survey : 12/6/86
 Operator : CDJ
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX TSQ-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms
 Slice # 7 Plotted



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4

a Spacing = 25 M

LINE 3100 N

SCALE : 1 : 1250

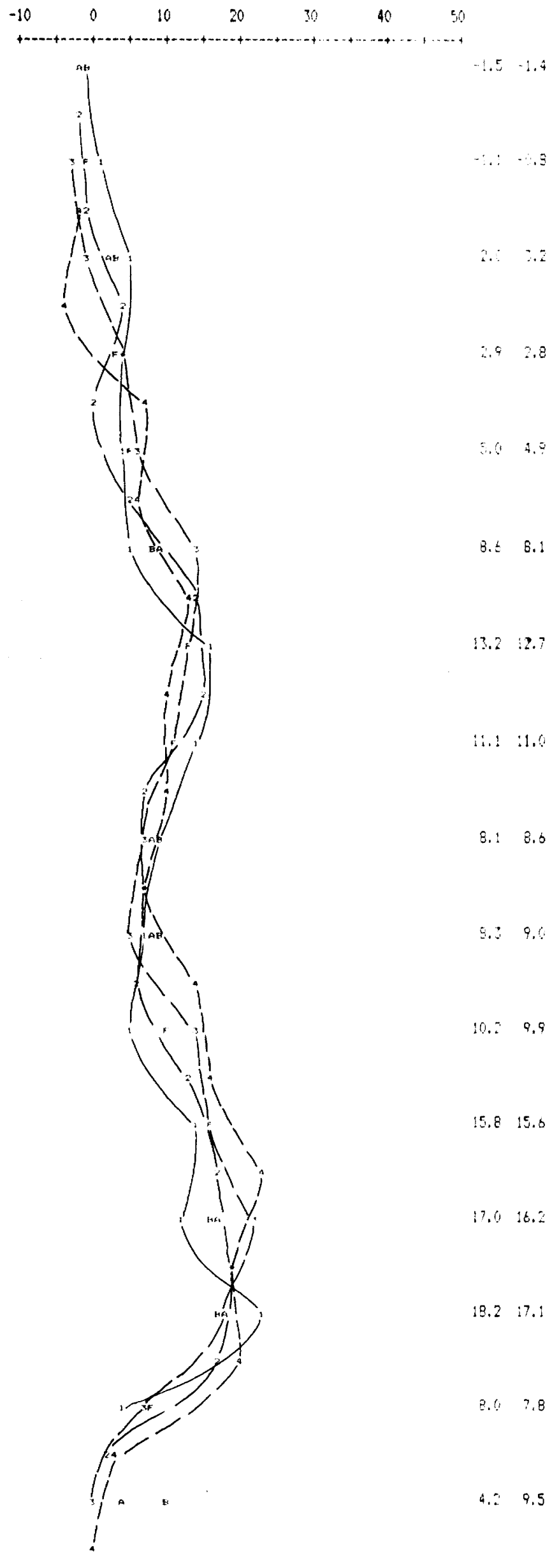
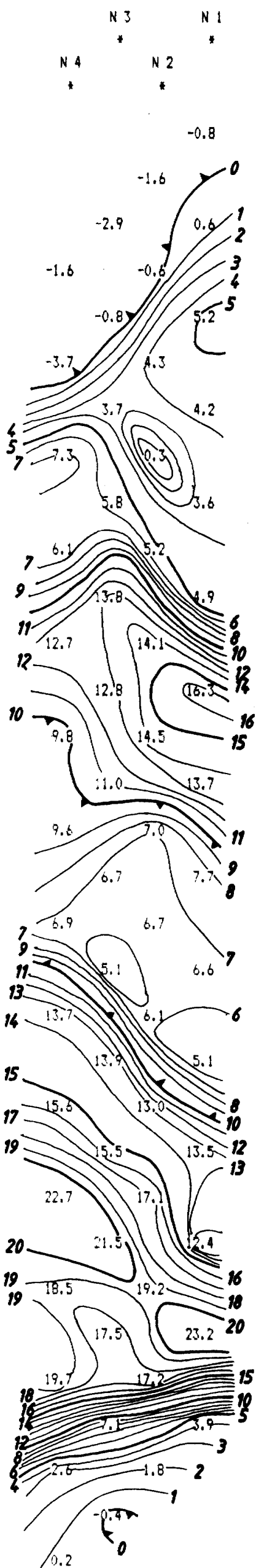
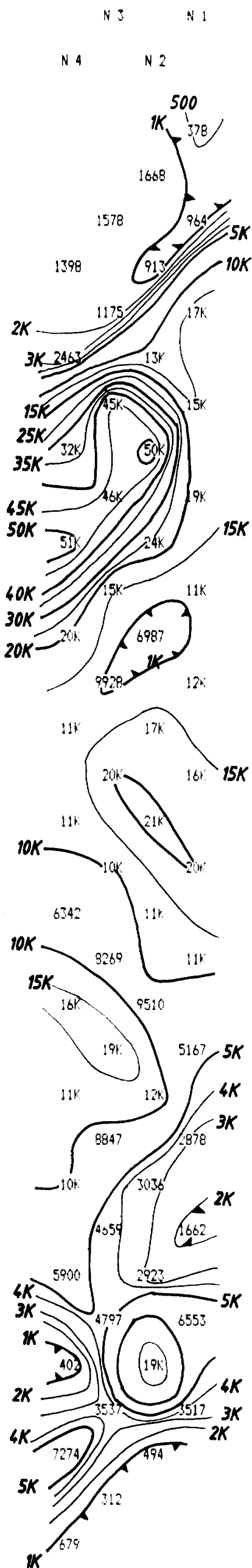
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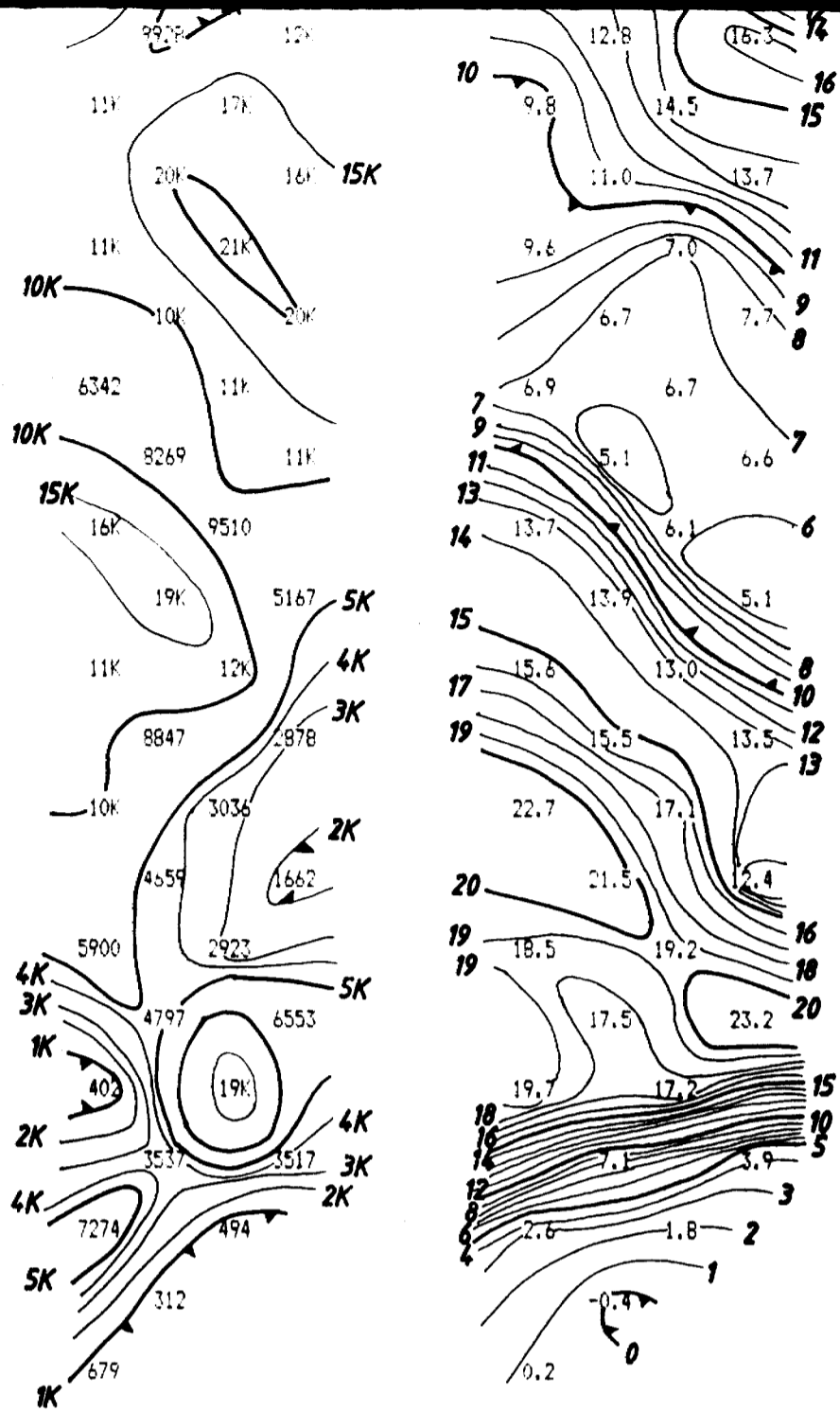
CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

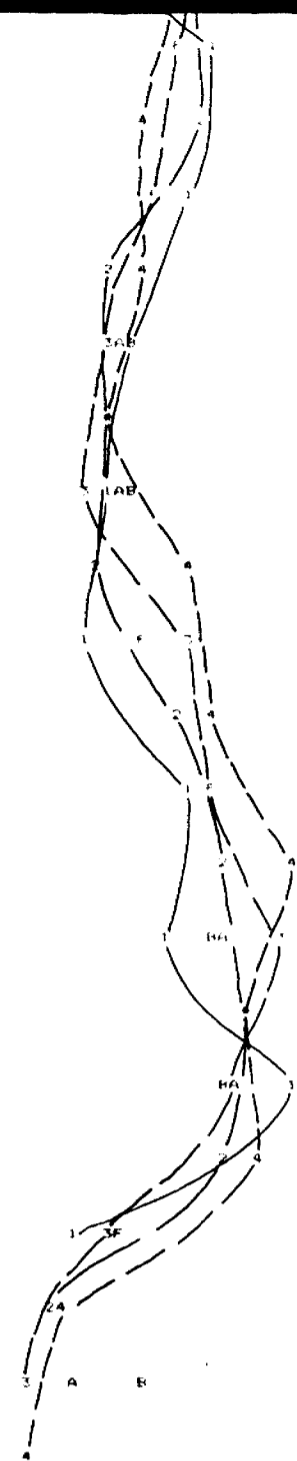
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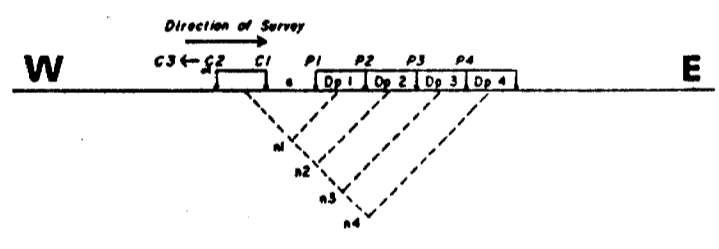
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12.2 12.7
 11.1 11.0
 8.1 8.6
 9.3 9.0
 10.2 9.9
 15.8 15.6
 17.0 16.2
 18.2 17.1
 8.0 7.8
 4.2 9.5

Property : MAISONVILLE TWP. GRID 1
 Client : GLEN AUDEN RESOURCES LTD.

Date of Survey : 12/6/86
 Operator : CDJ
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX TSQ-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms
 Slice # 7 Plotted



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

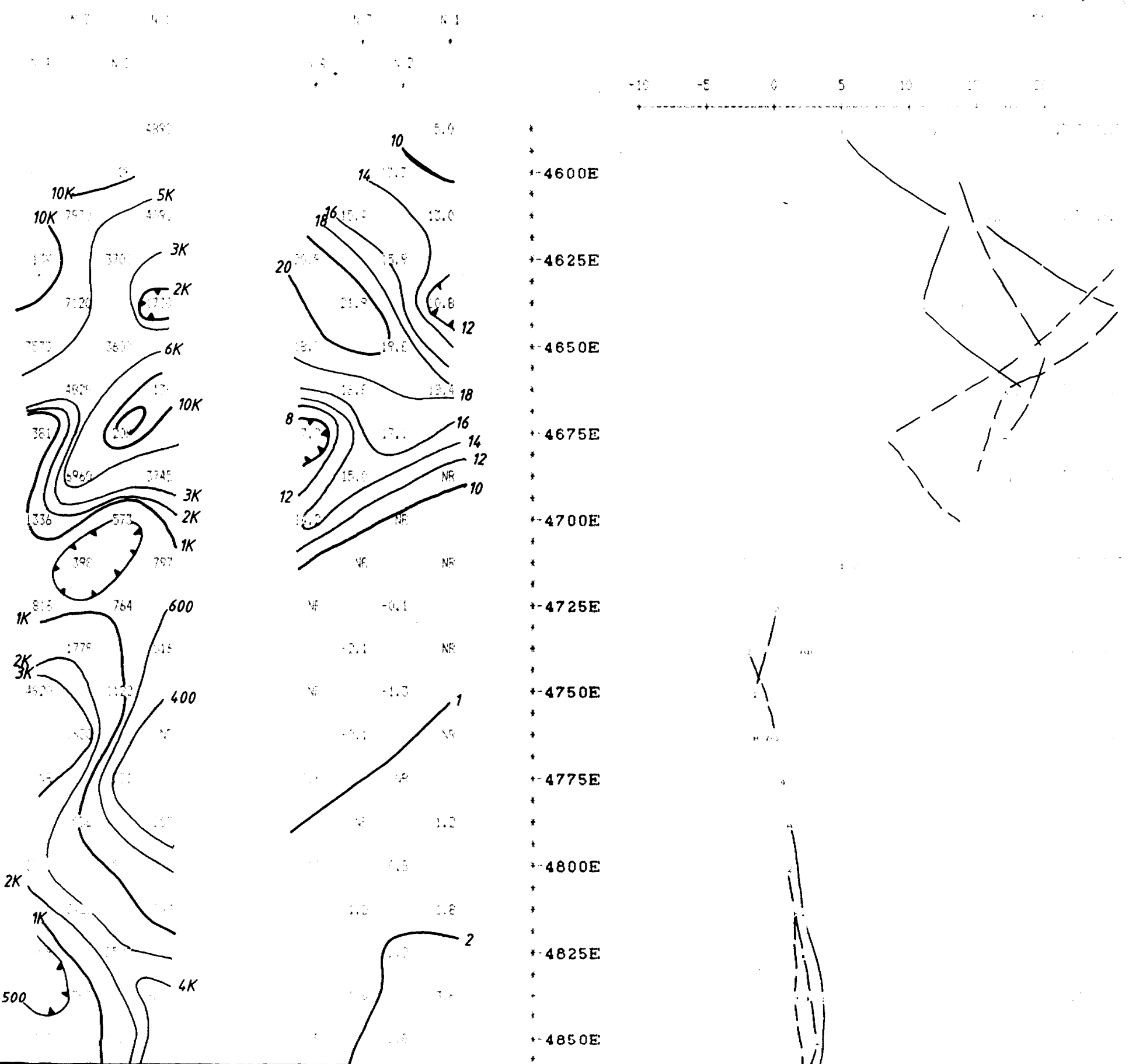
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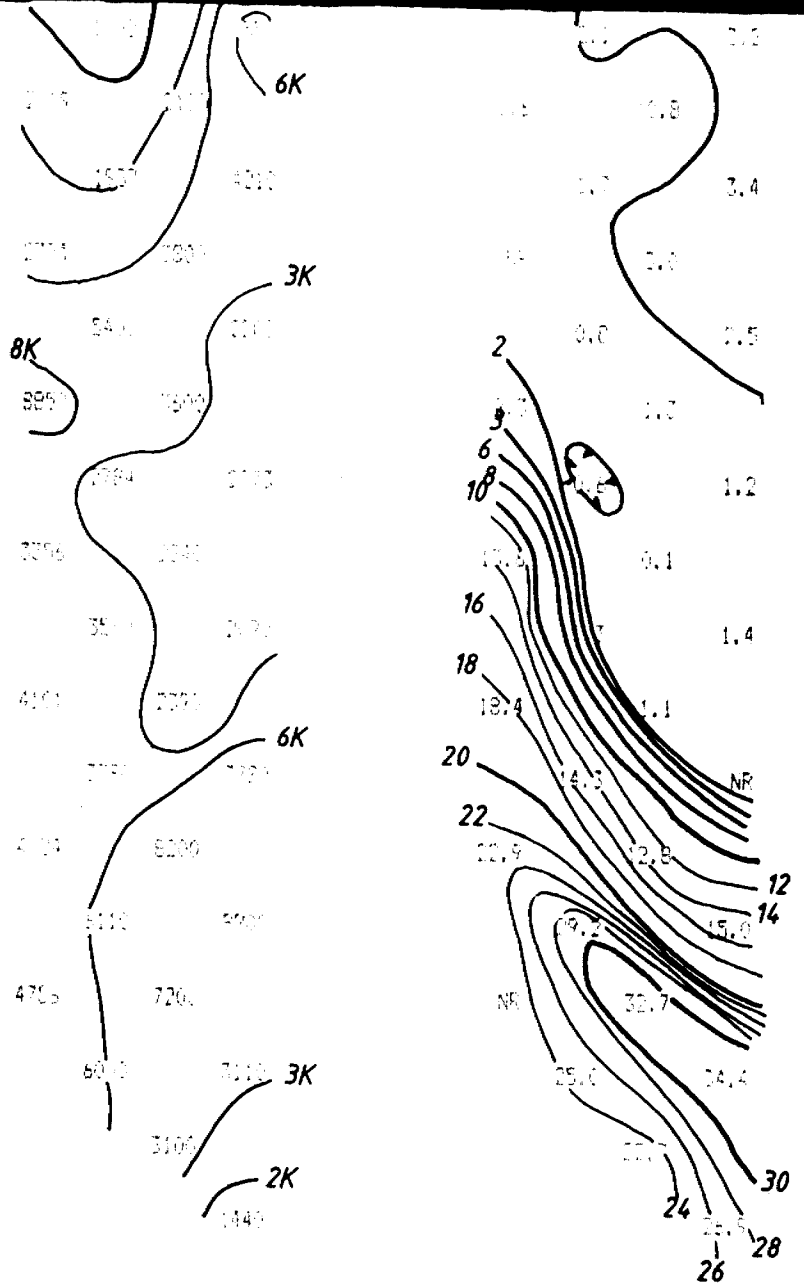
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TOPOGRAPHY
Contour Interval
100 Feet

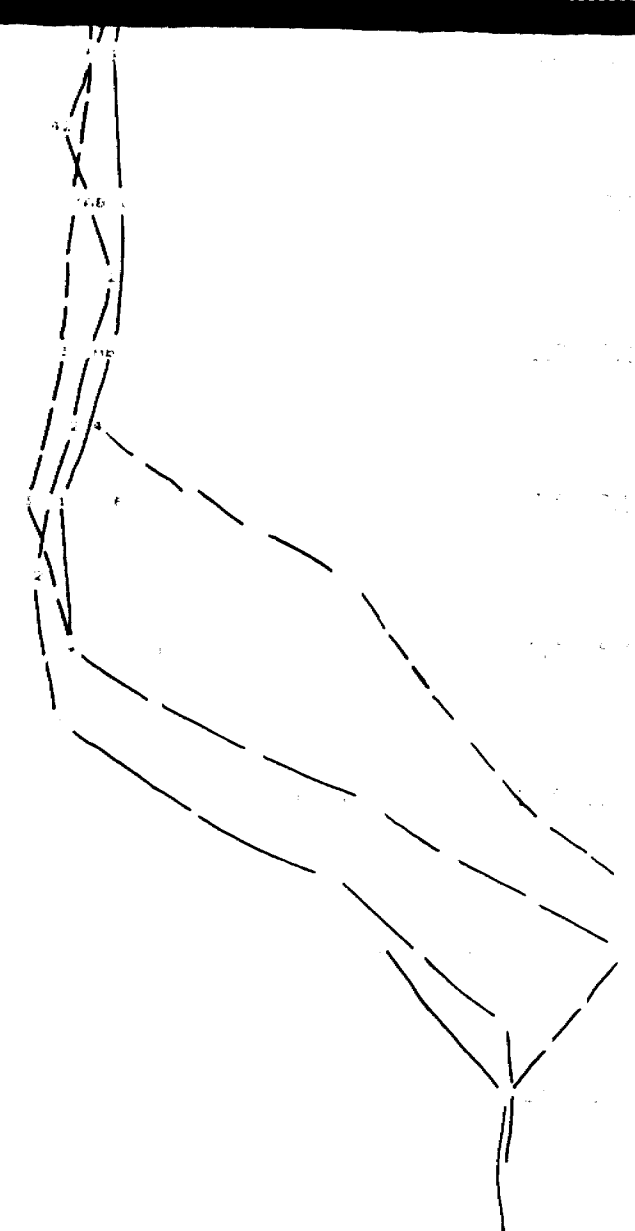
CHARGEABILITY
Contour Interval
0.1 seconds

CHARGEABILITY PROFILE



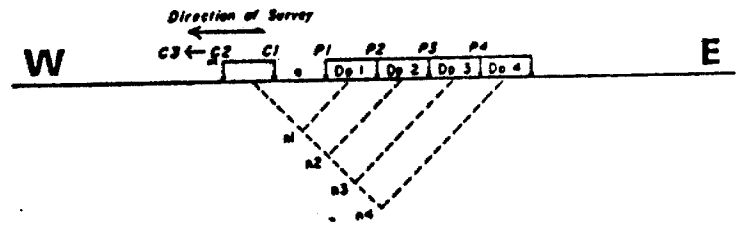


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 * -5075E
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Property : MAISONVILLE TWP. GRID 1
 Client : GLEN AUDEN RESOURCES

Date of Survey : 12/8/86
 Operator : CGK
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX IFC-8/250W
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

Greg Bodger

IP Pseudosections for N = 1 to 4
 a' Spacing = 25 M

LINE 3150 N

SCALE : 1 : 1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

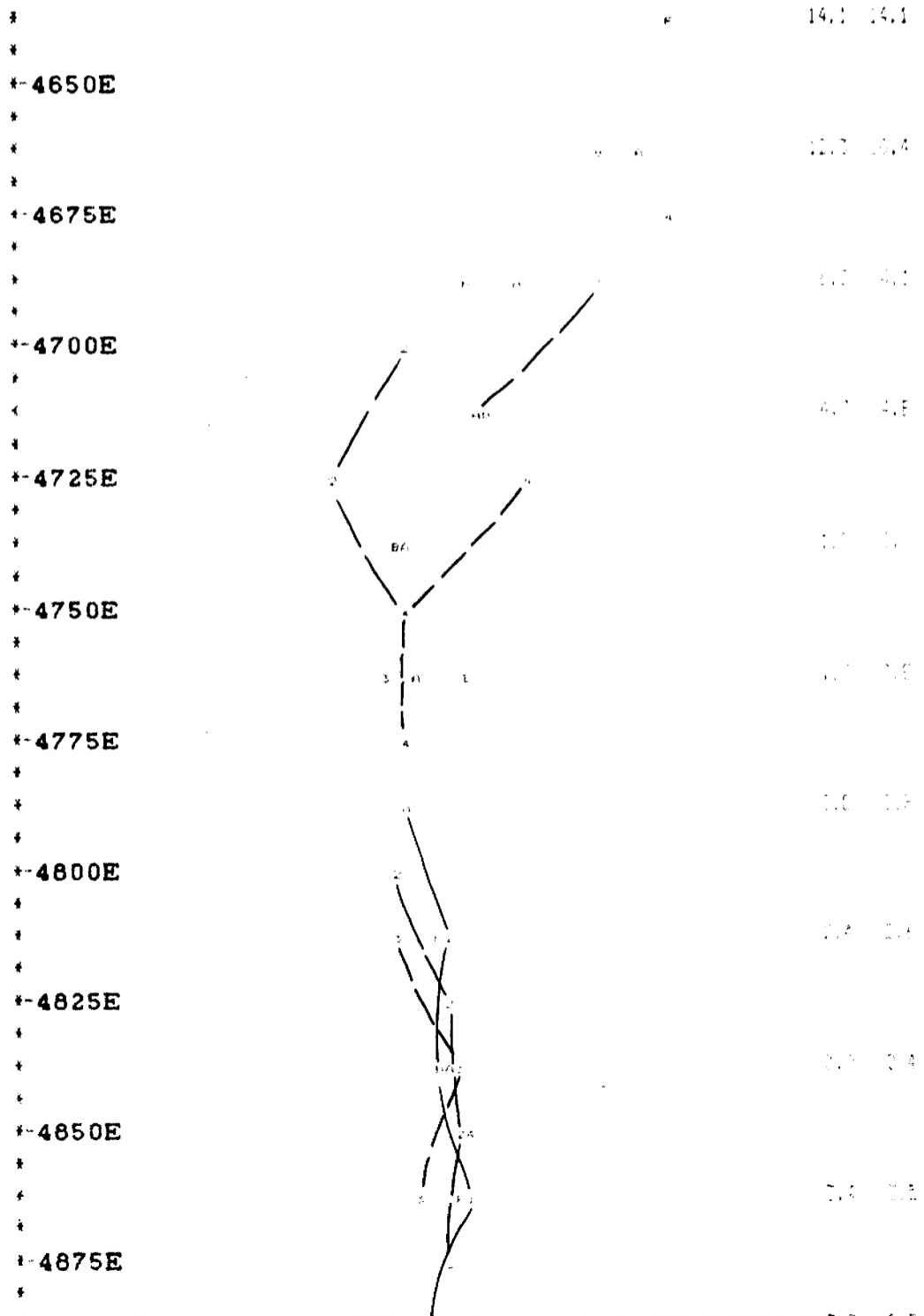
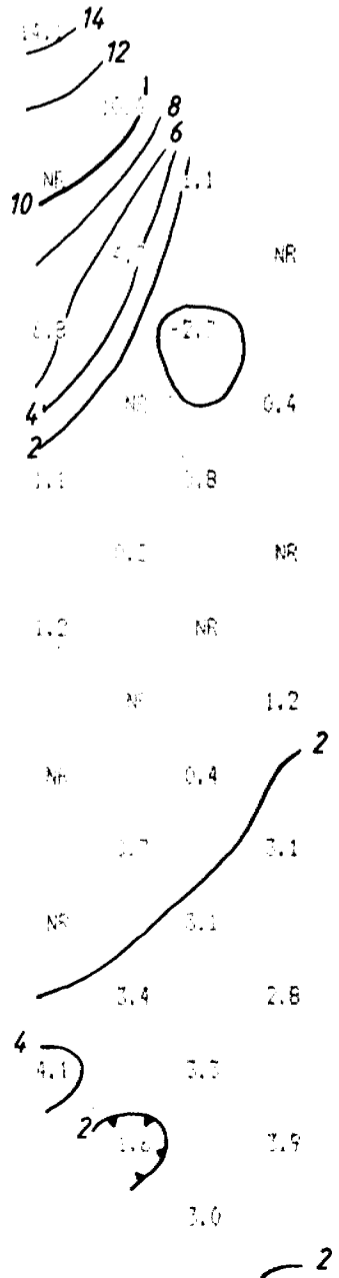
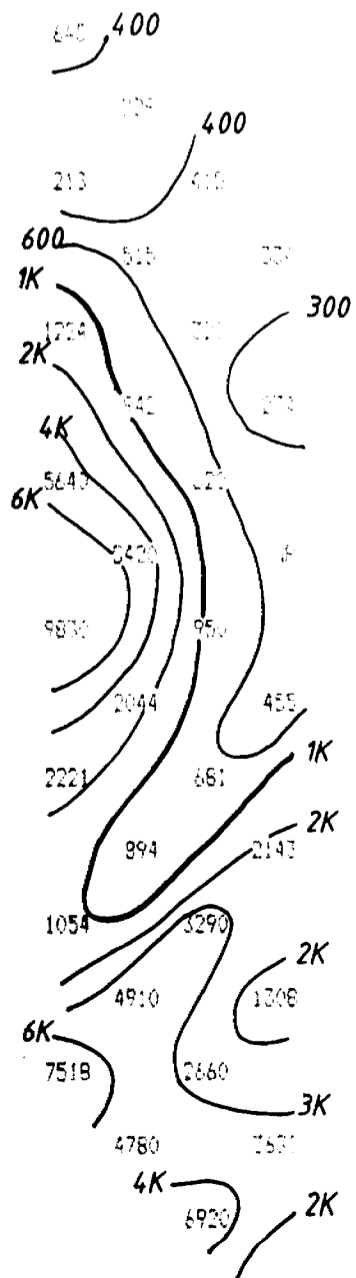
C
A
B
E
P

A P

N 3 N 1
N 4 N 2

N 3 N 1
* *
N 4 N 2
* *

-10 -5 0 5 10 15 20



SCALE : 1:1250

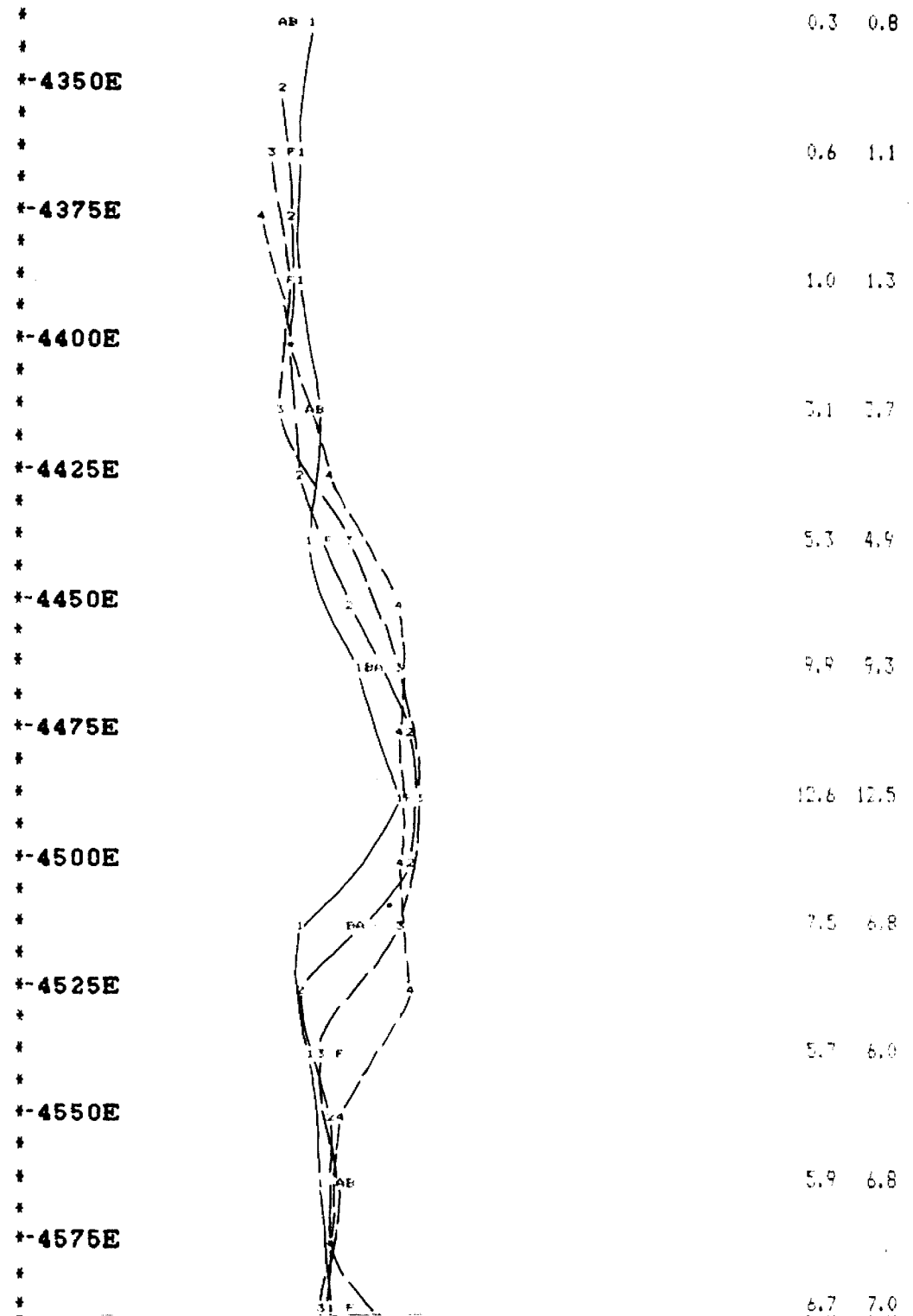
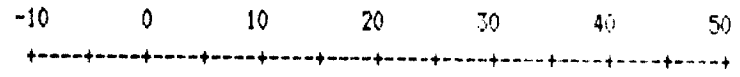
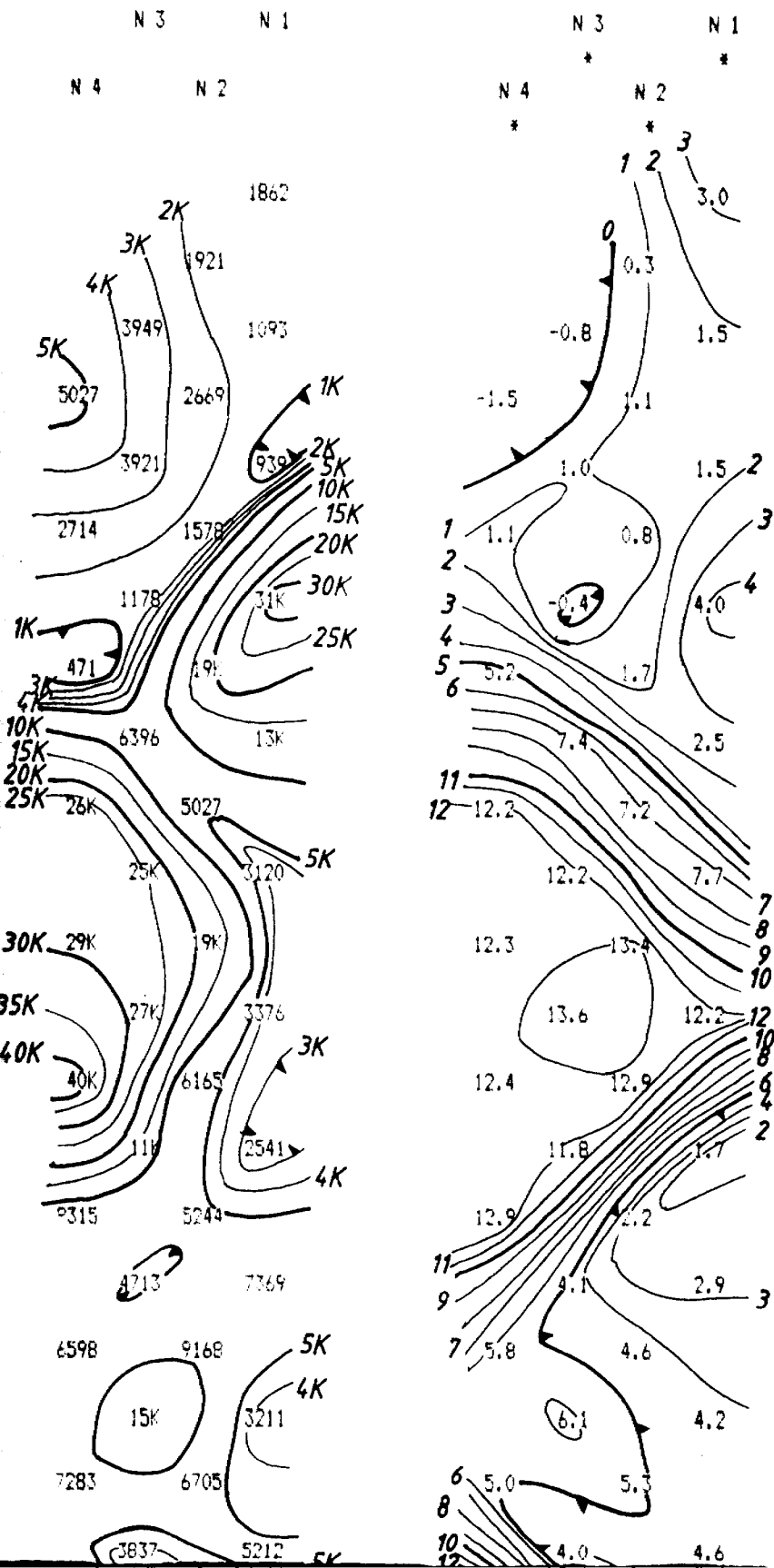
RESISTIVITY
(ohm - metres)

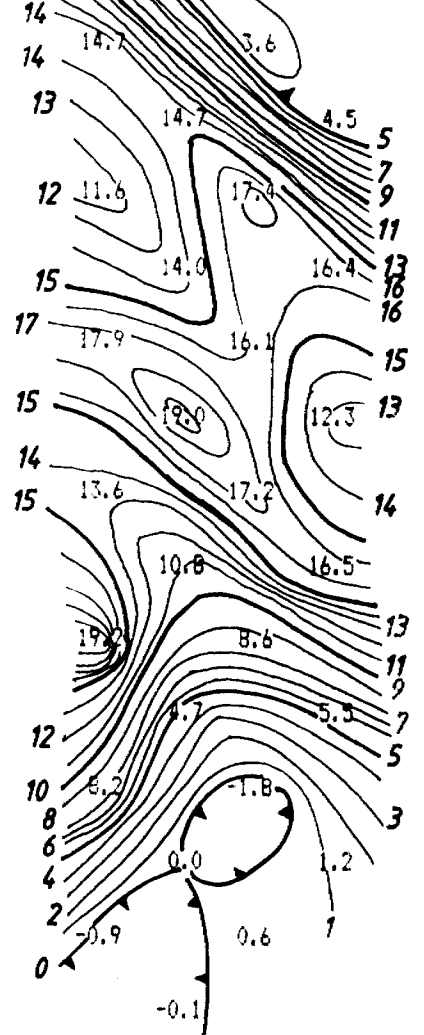
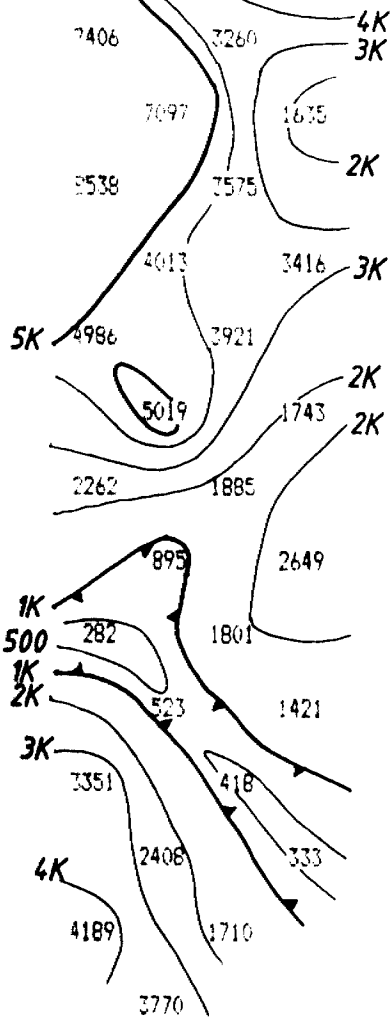
CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

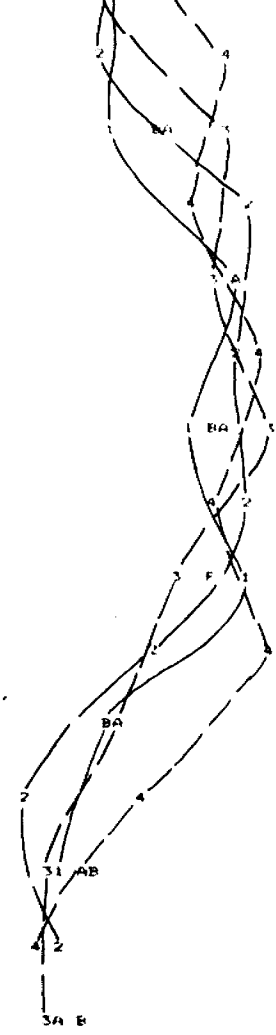
F F
R I
A L
S T
E R
R R

A B





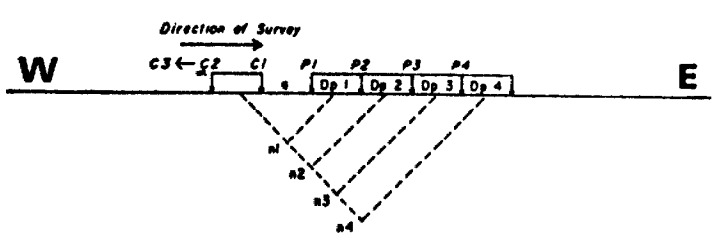
*
 * -4600E
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 * -4625E
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 * -4675E
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 *
 * -4700E
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 * -4725E
 *
 *
 * -4750E
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 *
 * -4775E
 *



9.6	8.9
15.9	16.0
14.8	14.2
13.9	13.6
6.0	5.2
2.8	3.6
1.4	2.9

Property : MAISONVILLE TWP. GRID 1
 Client : GLEN AUDEN RESOURCES LTD.

Date of Survey : 13/6/86
 Operator : CDJ
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX IPC-8/250W
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms
 Slice # 7 Plotted



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

Greg Hodges

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 3200 N

SCALE : 1 : 1250

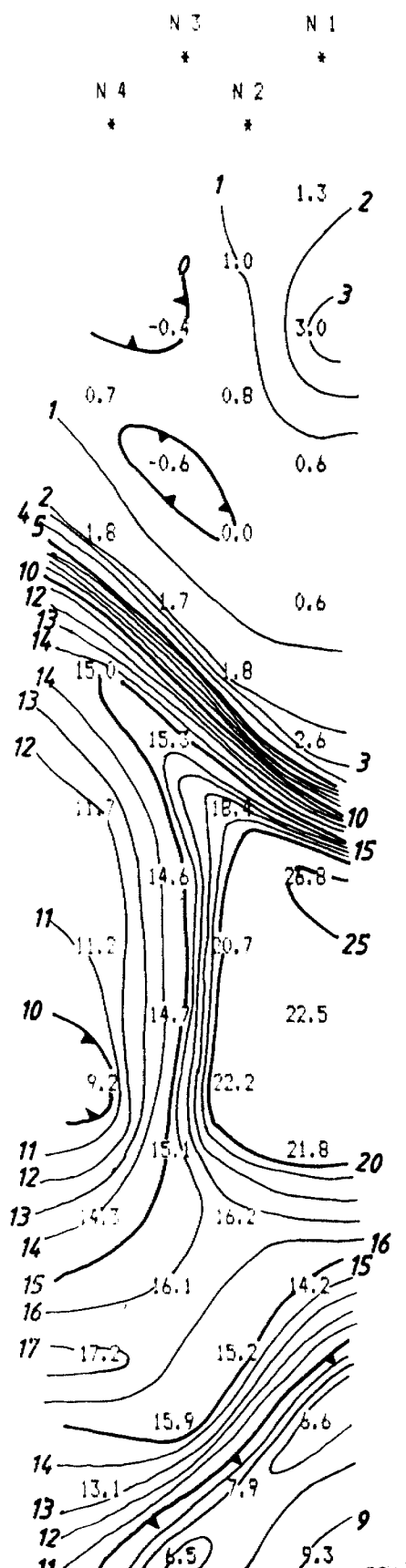
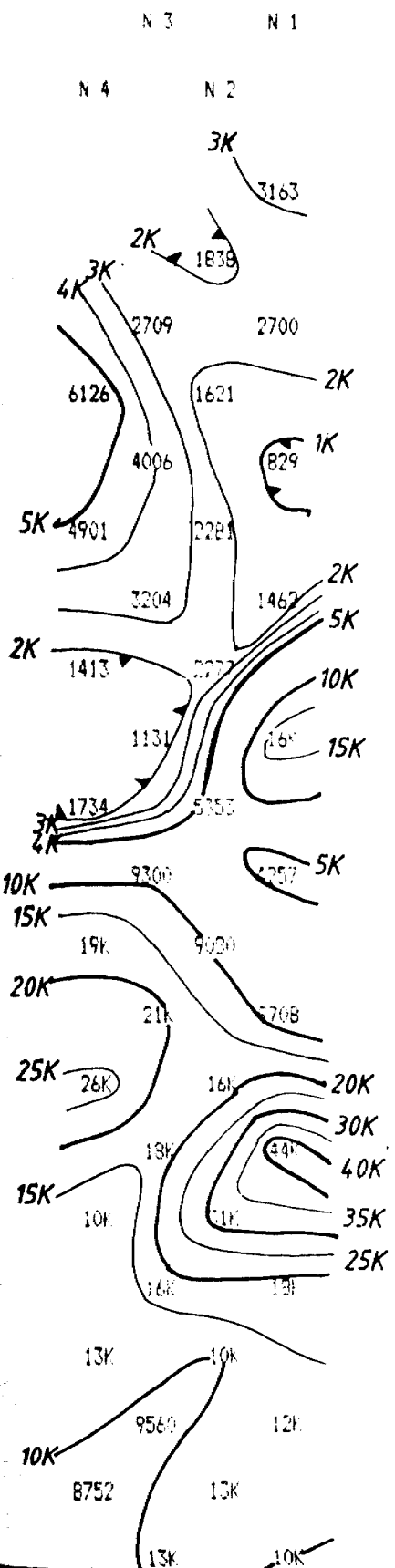
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

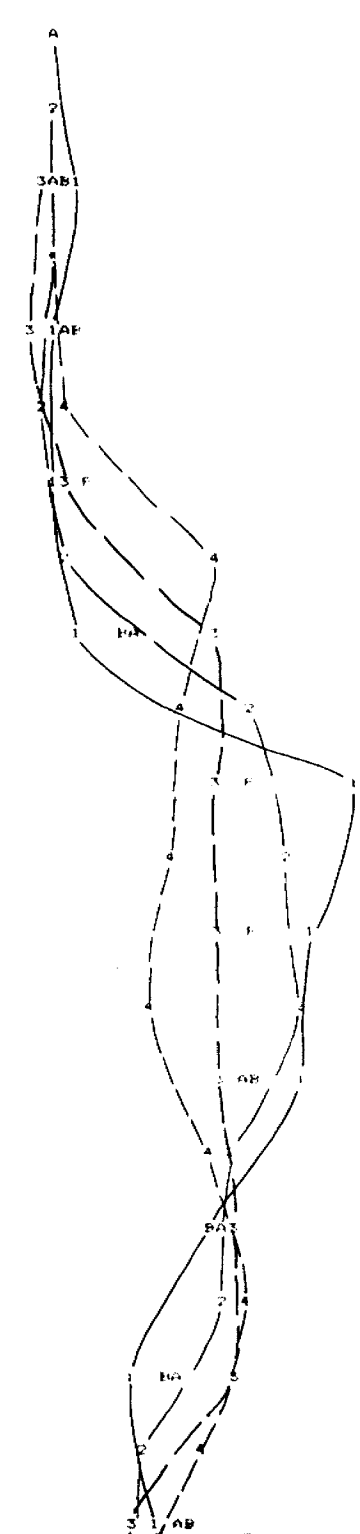
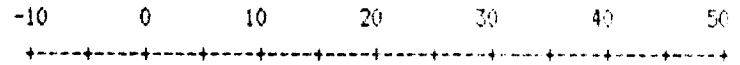
CHARGEABILITY PROFILE

F
R
A
S
E
R

A B



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***-4350E**
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*
***-4375E**
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***-4400E**
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***-4425E**
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***-4450E**
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***-4475E**
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*
***-4500E**
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*
***-4525E**
*
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***-4550E**
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*
***-4575E**
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*



0.7 0.8
1.2 1.5
1.8 2.6
3.6 3.8
6.3 6.8
18.3 18.4
17.6 18.0
17.3 17.7
14.8 14.1
11.1 10.2
10.7 12.2

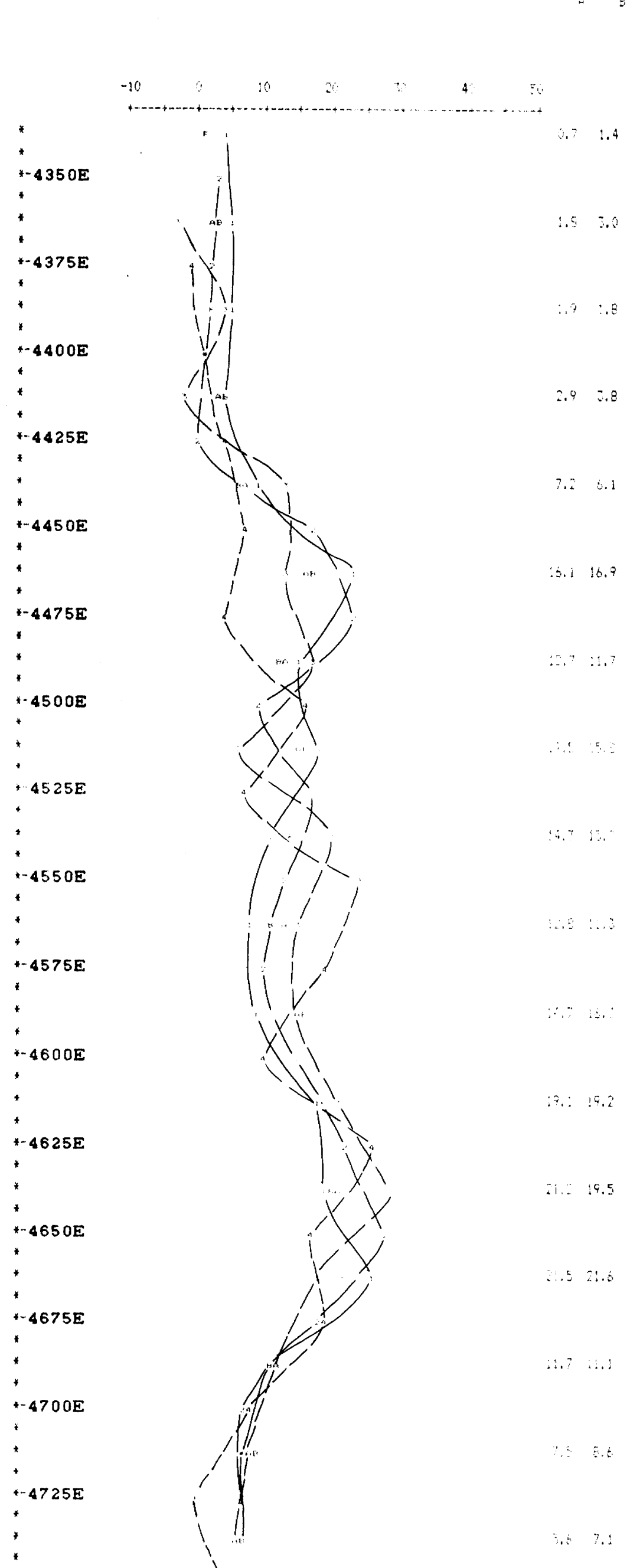
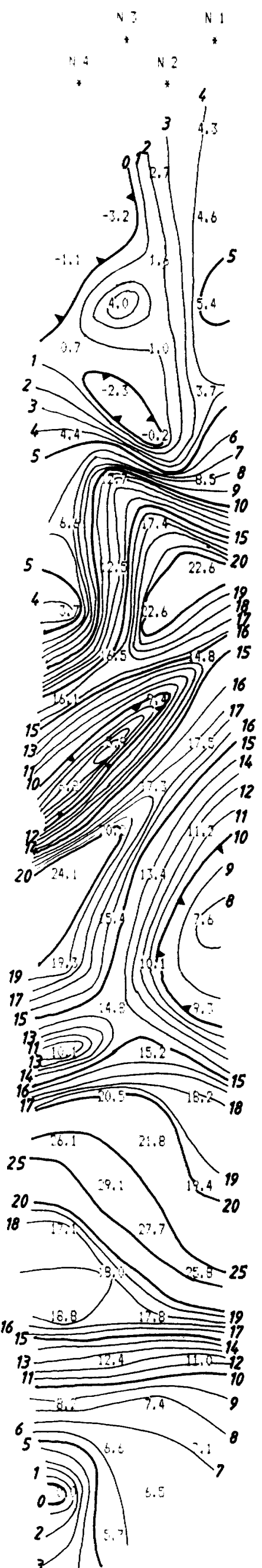
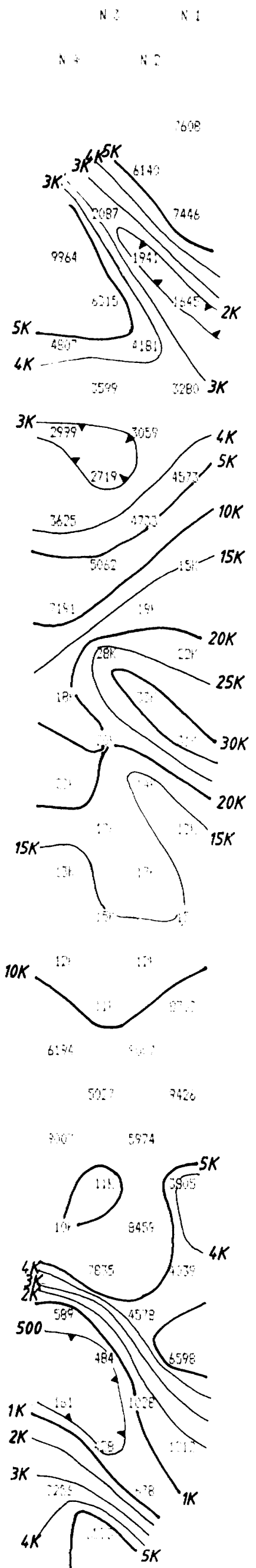
SCALE : 1 : 1250

RESISTIVITY
CHARGEABILITY
CHARGEABILITY PROFILE

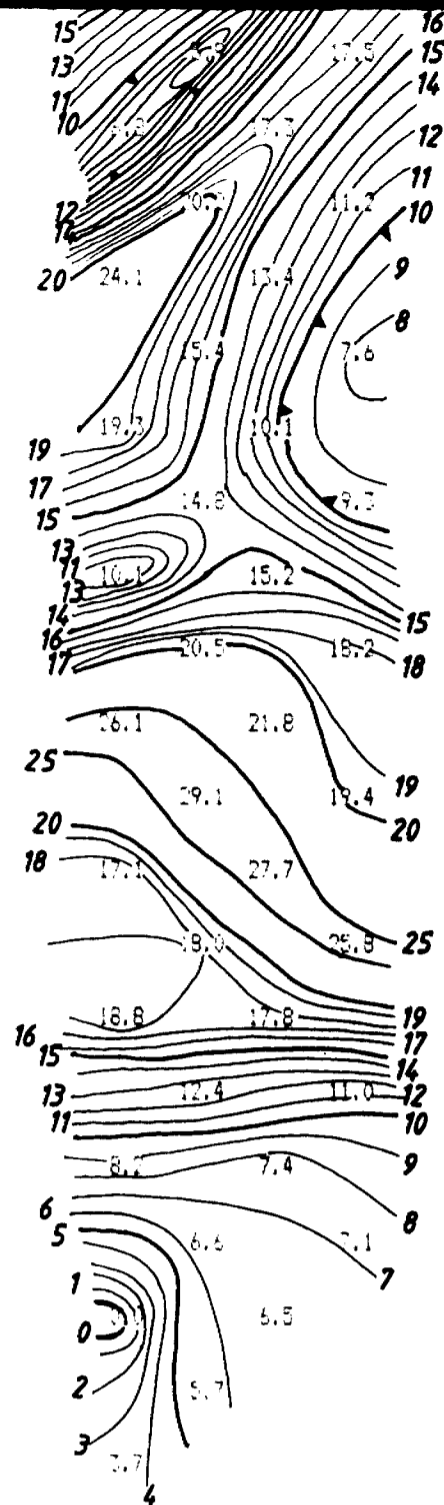
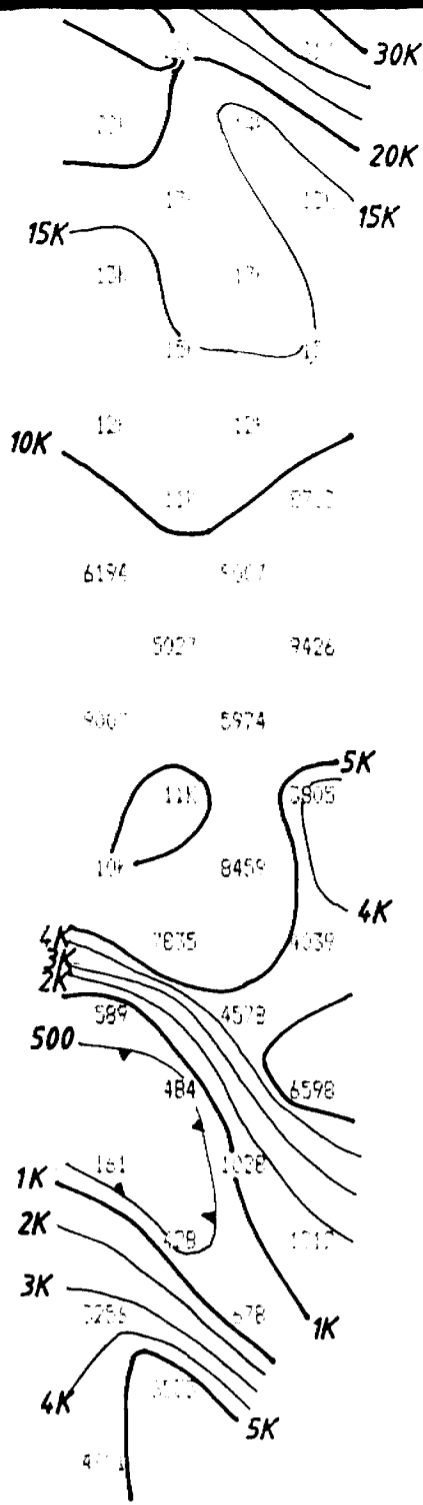
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

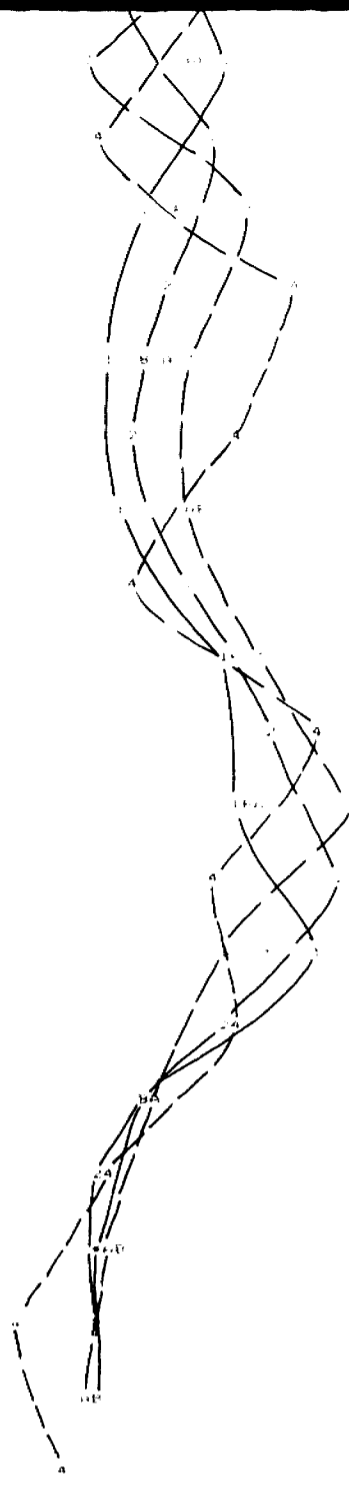
CHARGEABILITY PROFILE



A B

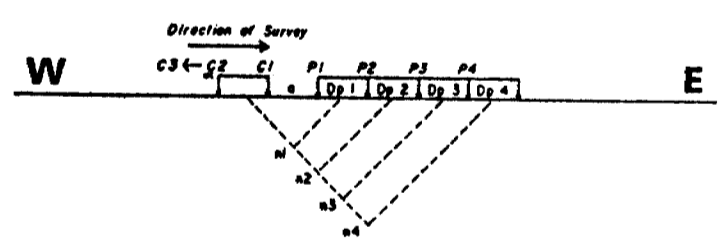


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 * 4525E
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 * 4550E
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 * 4575E
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 * 4600E
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 * 4625E
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 * 4650E
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 * 4675E
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 * 4700E
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 * 4725E
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 * 4750E
 *



Property : MAISONVILLE TWP. GRID 1
 Client : GLEN AUDEN RESOURCES LTD.

Date of Survey : 15/6/86
 Operator : CDJ
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX IPC-8/250W
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms
 Slice # 7 Plotted



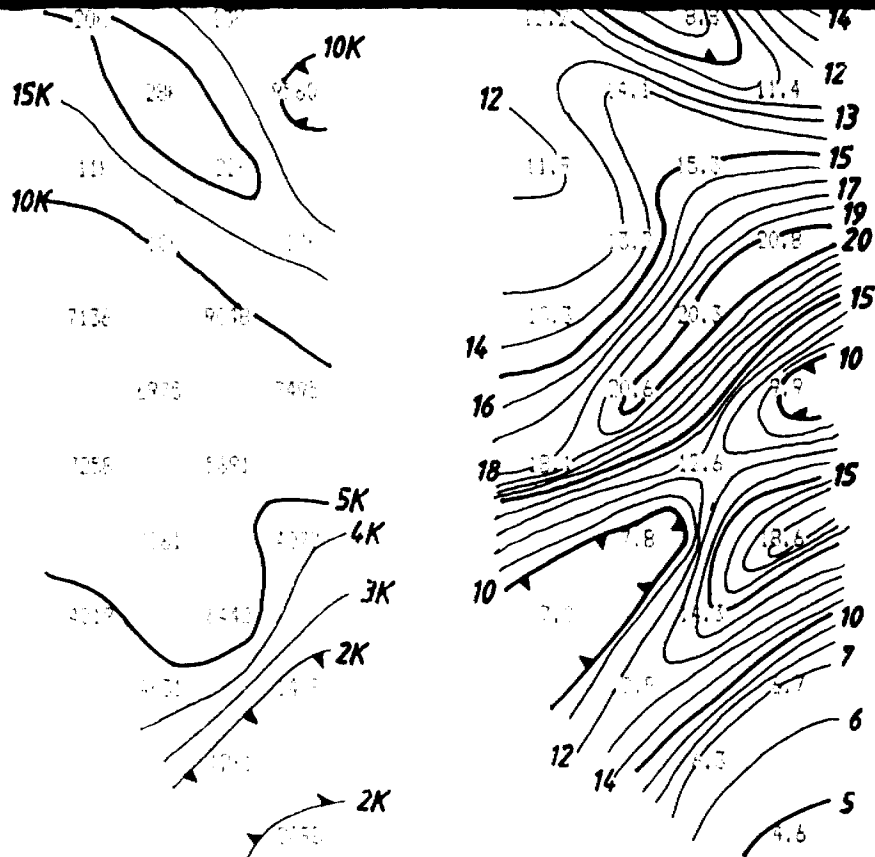
 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 3300 N

Ray Boddy

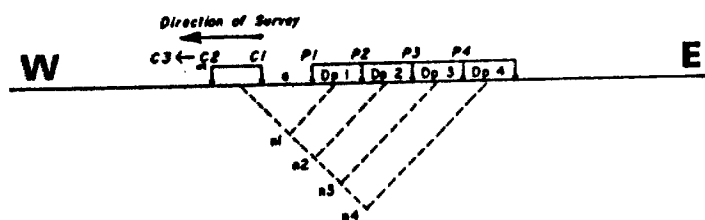


+4550E
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 +4600E
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 +4625E
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 +4650E
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 +4675E
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 +4700E
 +



Property : MAISONVILLE TWP. GRID 1
 Client : GLEN AUDEN RESOURCES LTD.

Date of Survey : 17/6/86
 Operator : CBJ
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX IPC-B/250W
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

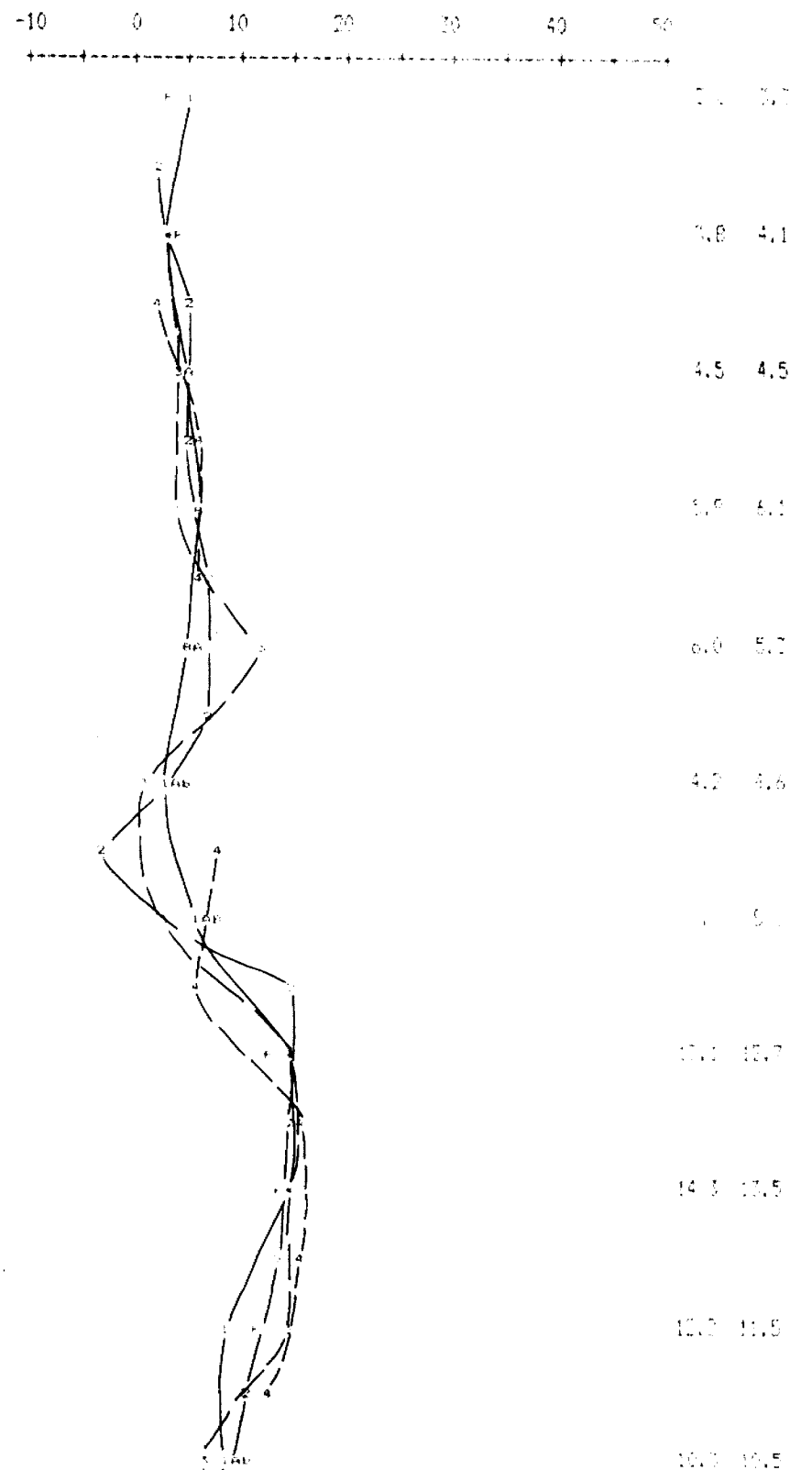
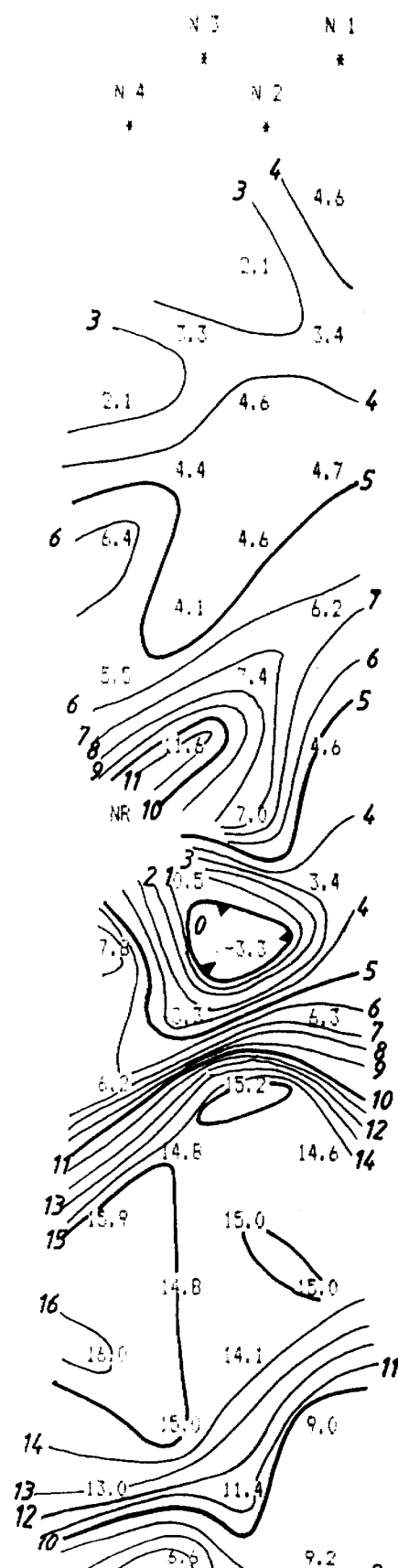
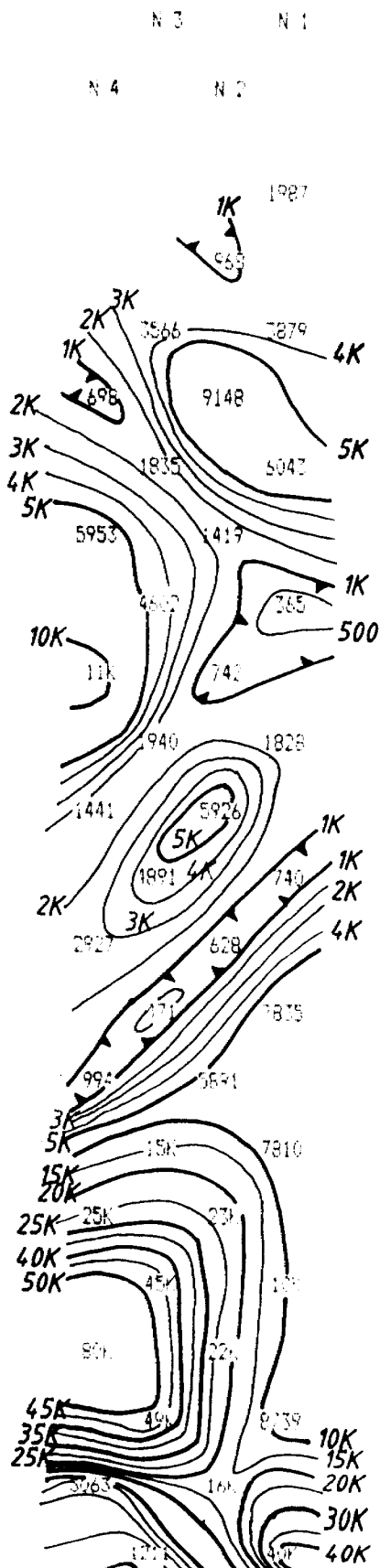
LINE 3350 N

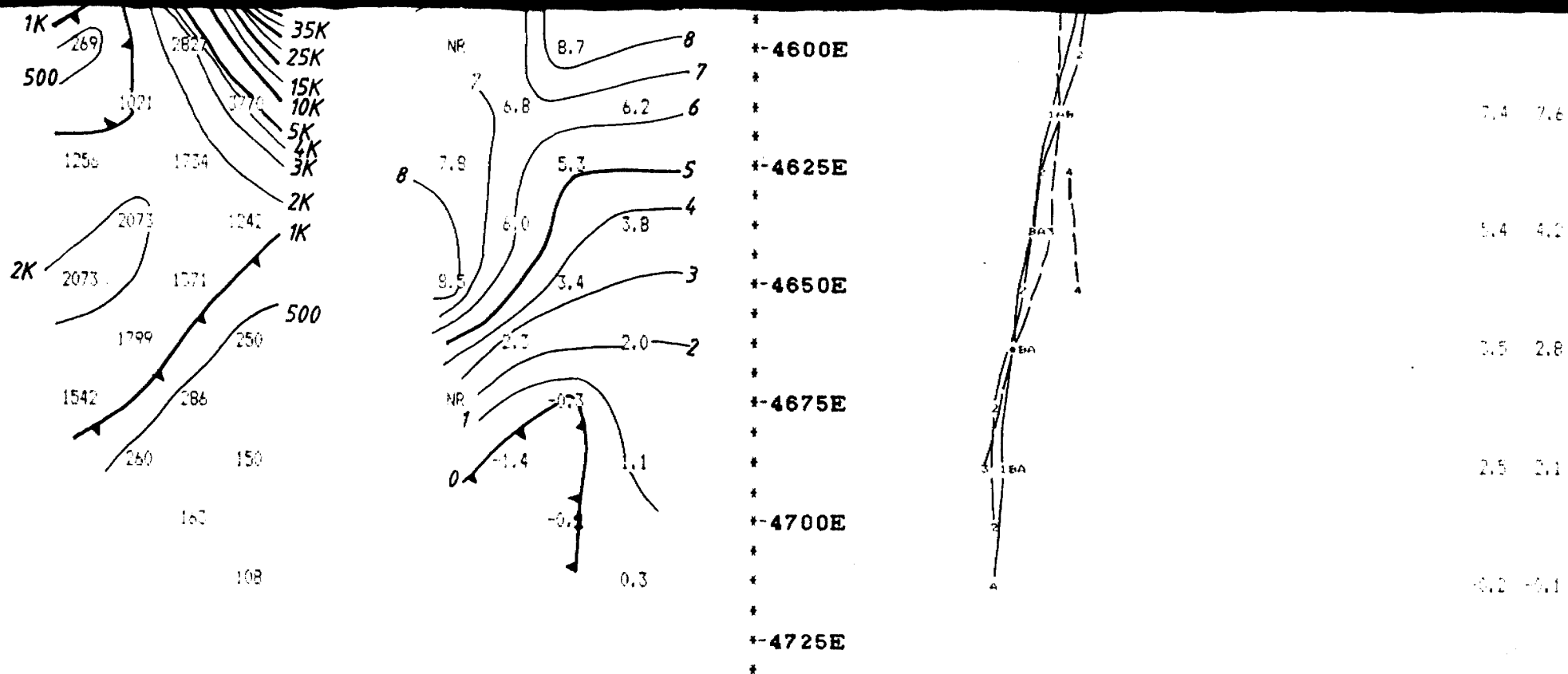
SCALE : 1 : 1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE





Property : MAISONVILLE TWP. GRID 1
 Client : GLEN AUDEN RESOURCES LTD.

Date of Survey : 15/6/86

Operator : DGH

Electrode Array : DIPOLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

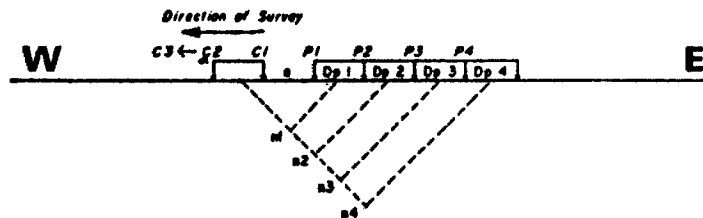
Transmitter : SCINTREX IPC-8/250W

Pulse Time : 2 Sec on 2 Sec off

Delay Time : 360 ms

Integration Time : 780 ms

Slice # 7 Plotted



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

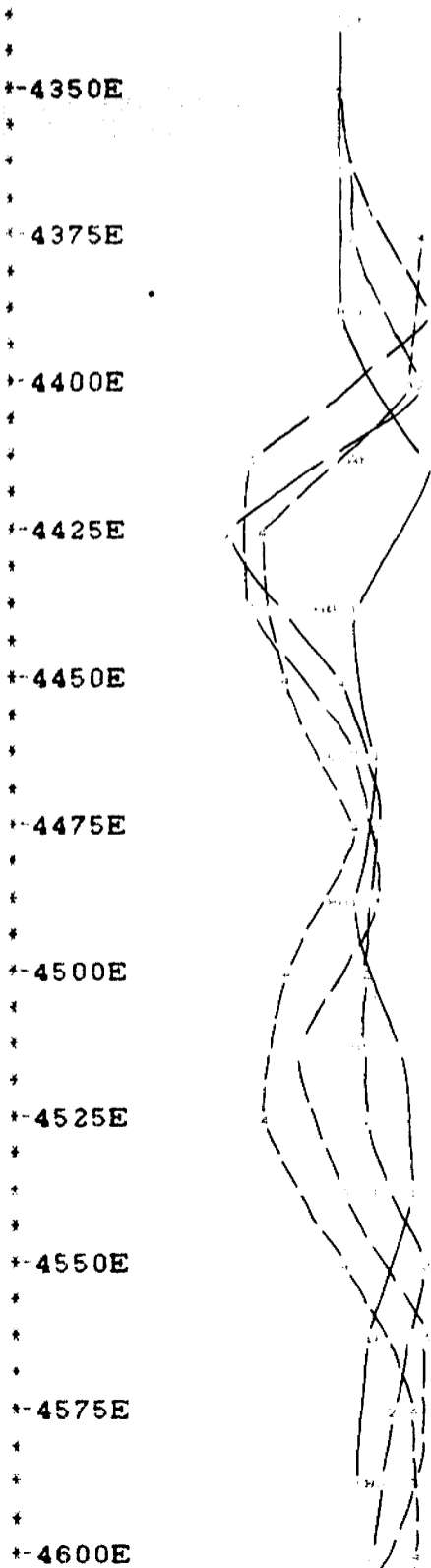
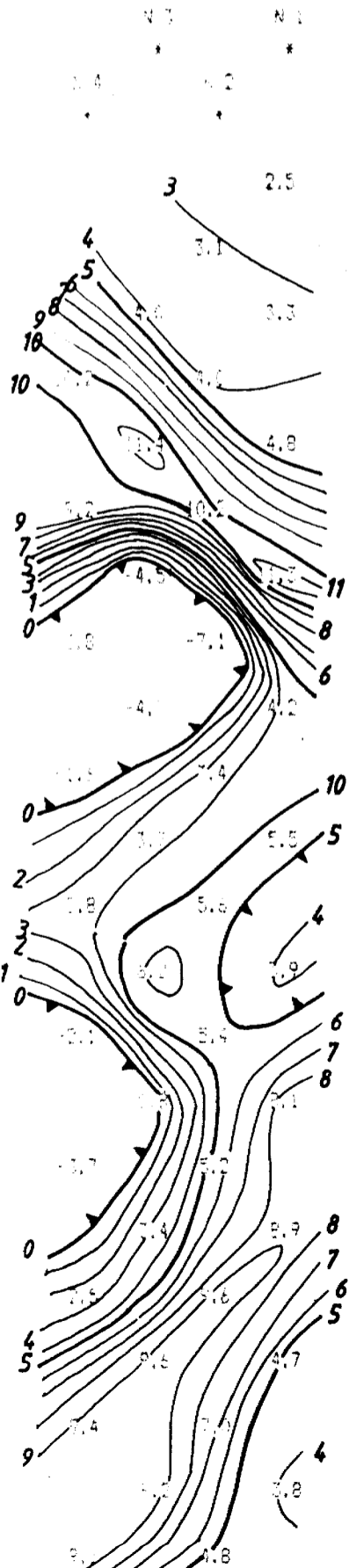
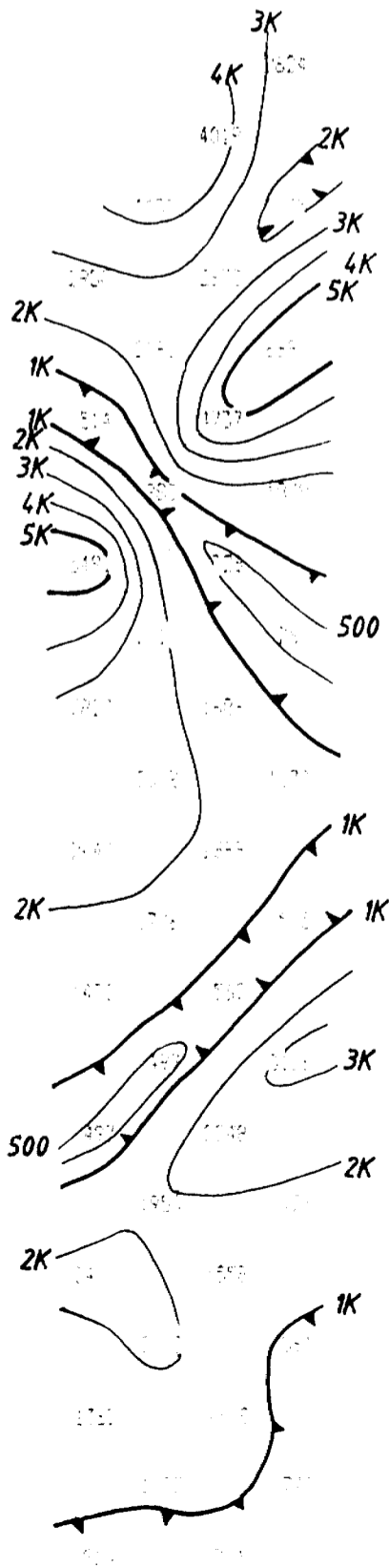
LINE 3400 N

SCALE : 1 : 1250

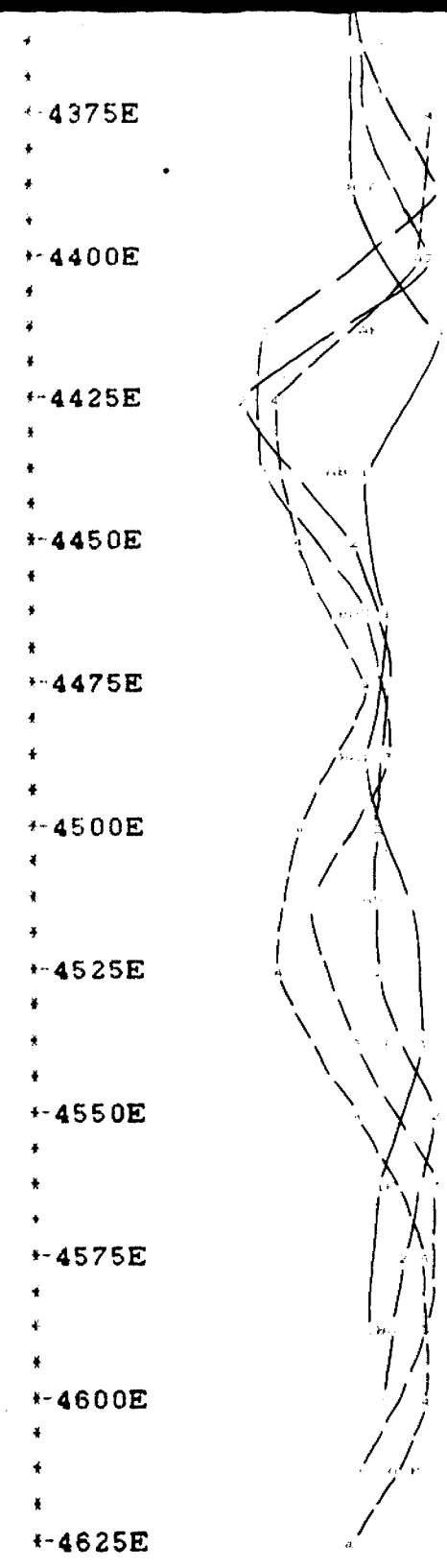
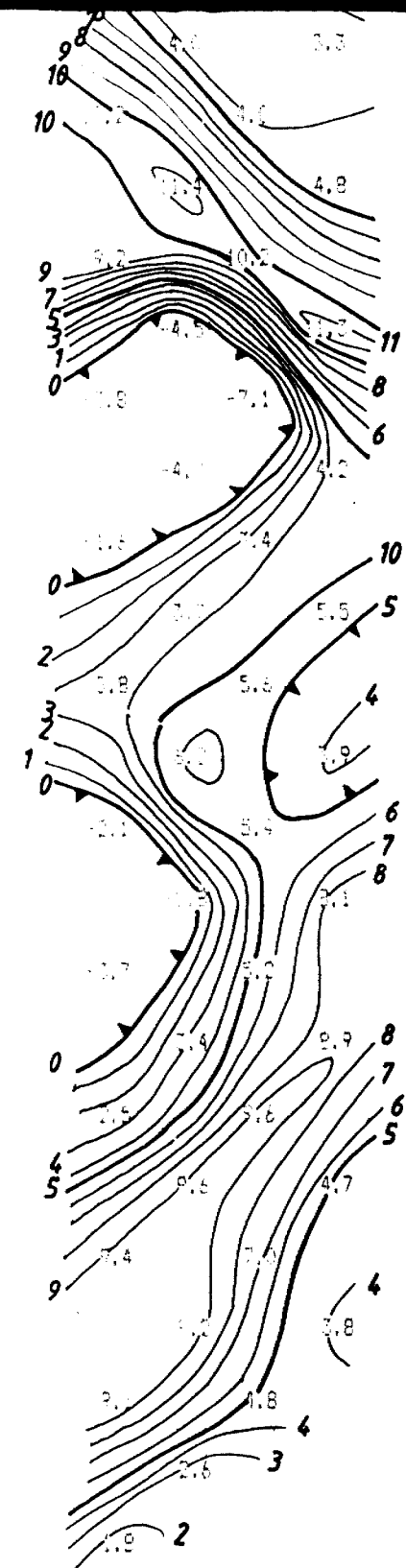
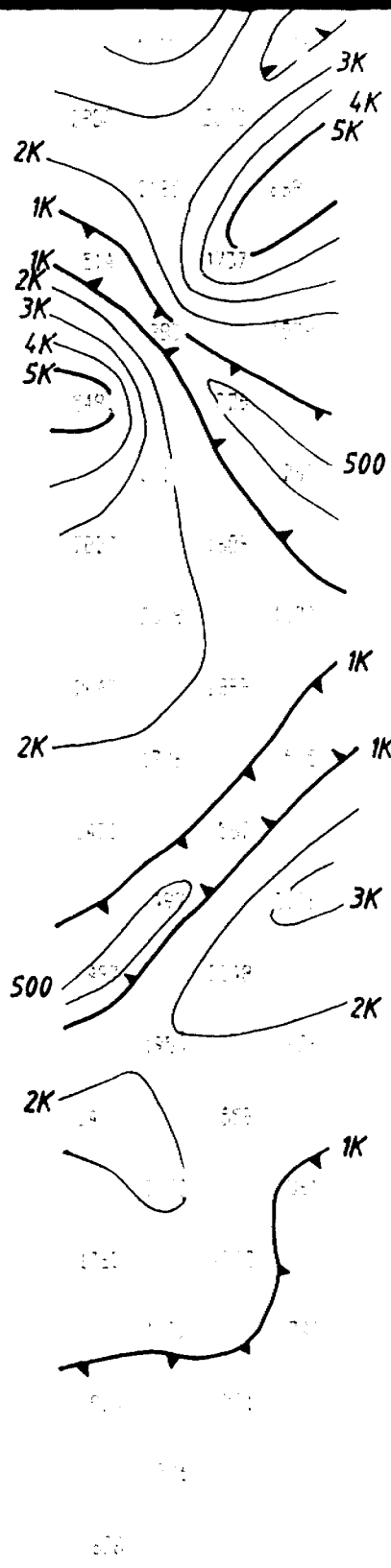
RESISTIVITY
(ohm-meters)

CHARGEABILITY
(in 100 seconds)

CHARGEABILITY (in 100 seconds)

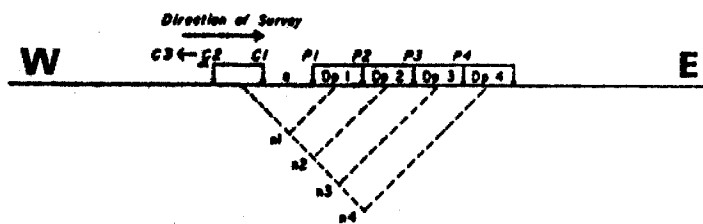


Vertical text on the right side of the page, possibly a scale or legend, including values like 10, 20, 30, 40, 50.



Property : MAISONVILLE TWP. GRID 1
 Client : GLEN AUDEN RESOURCES LTD.

Date of Survey : 17/6/86
 Operator : CDJ
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX IPC-8/250W
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 3500 N

Handwritten signature

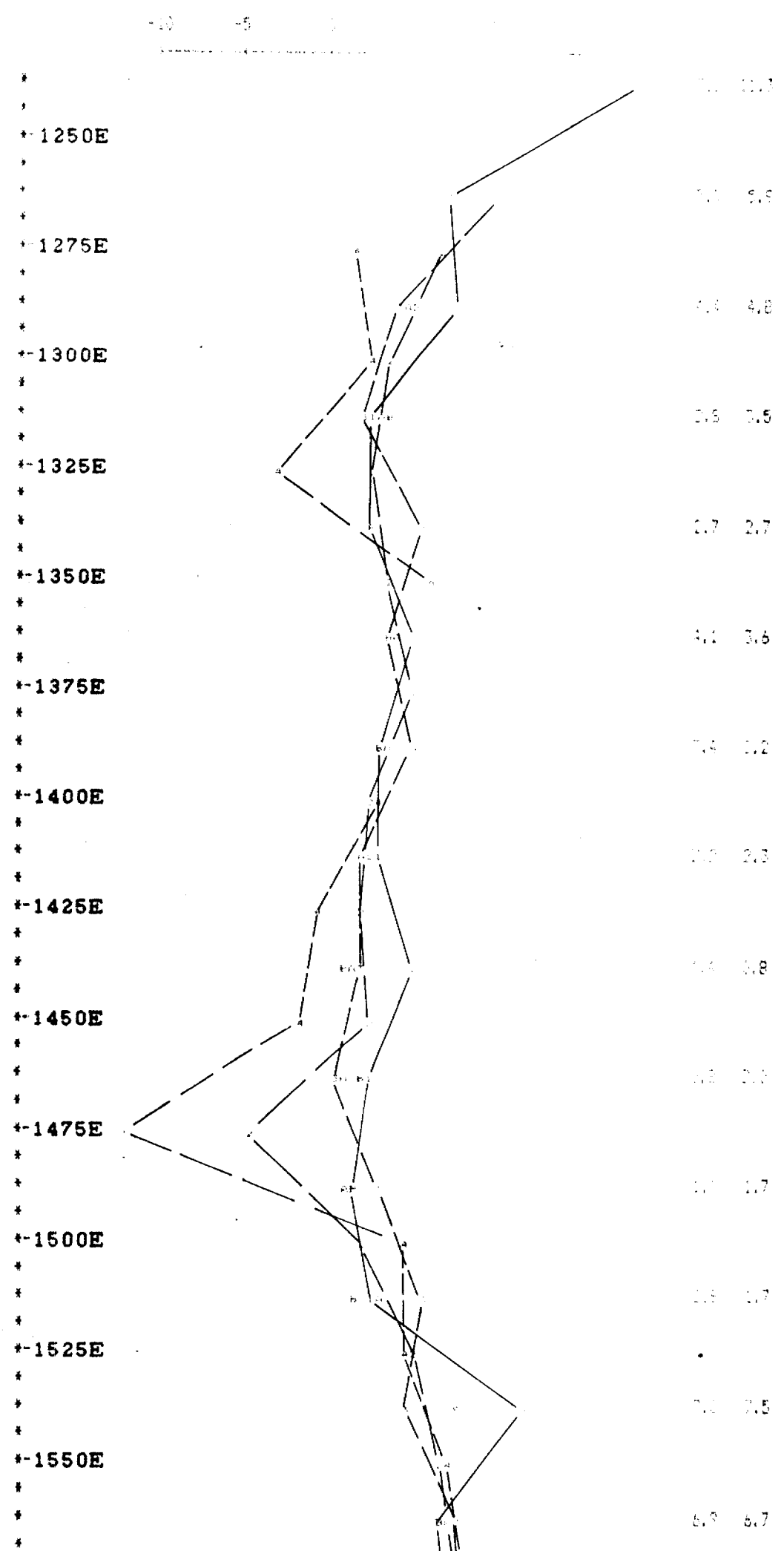
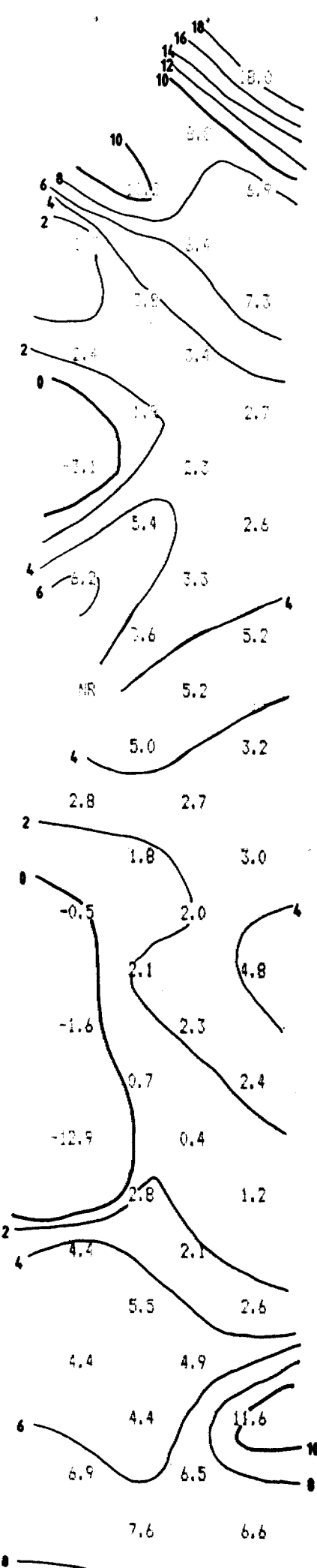
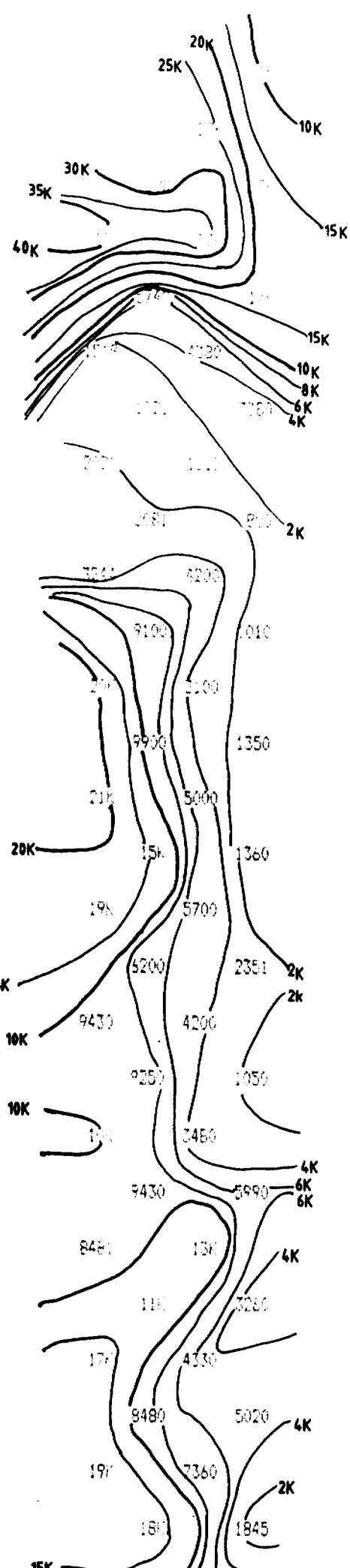
SCALE = 1 : 1250

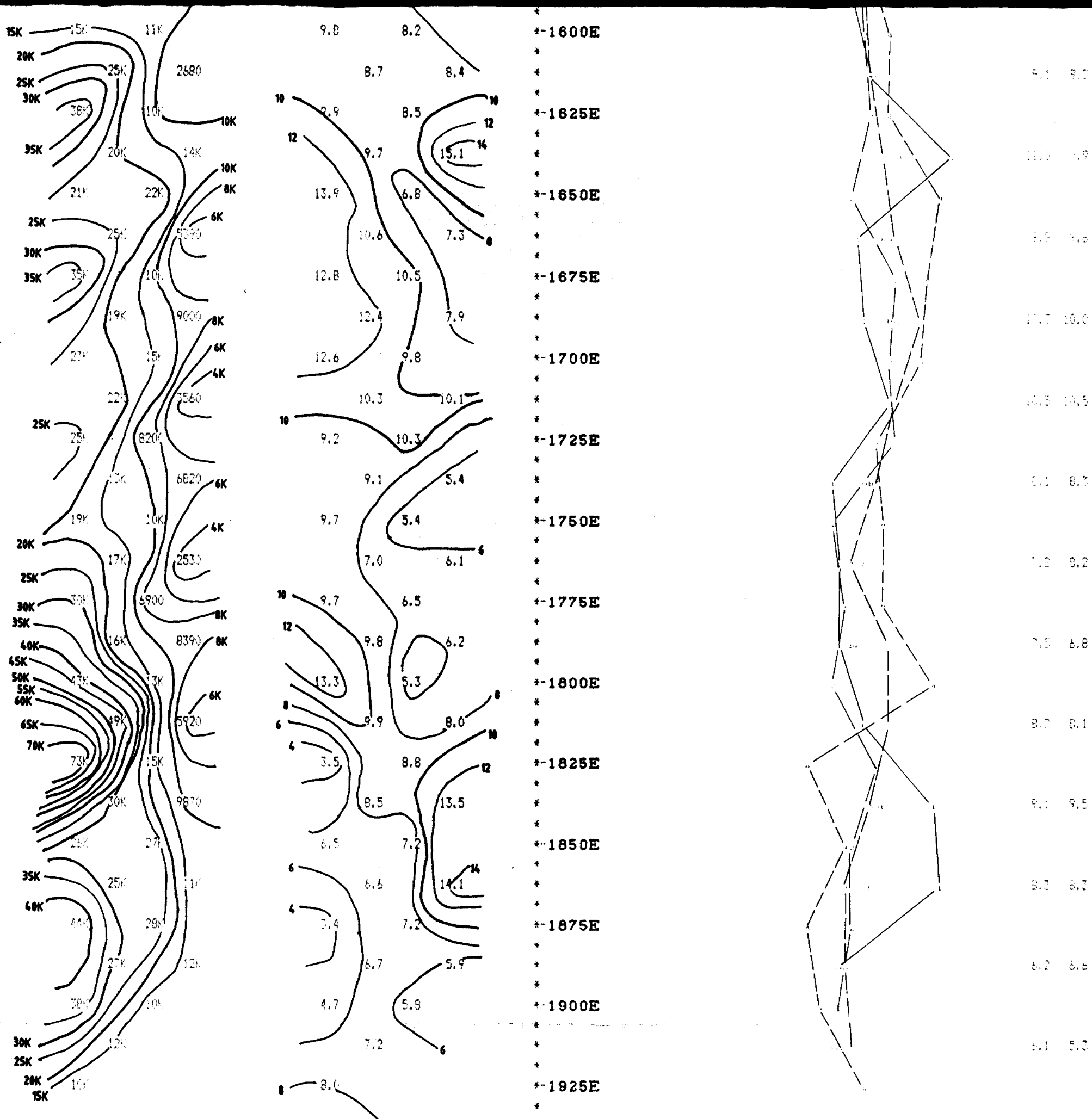
RESISTIVITY
(ohm metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY (milliseconds)

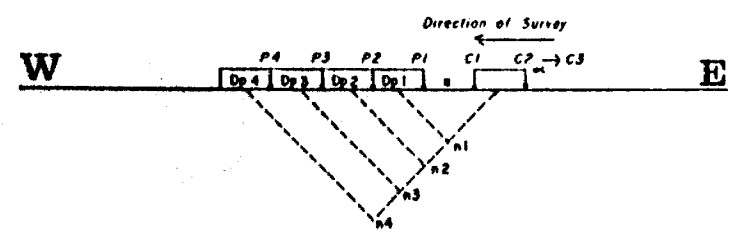
RESISTIVITY
(ohm metres)





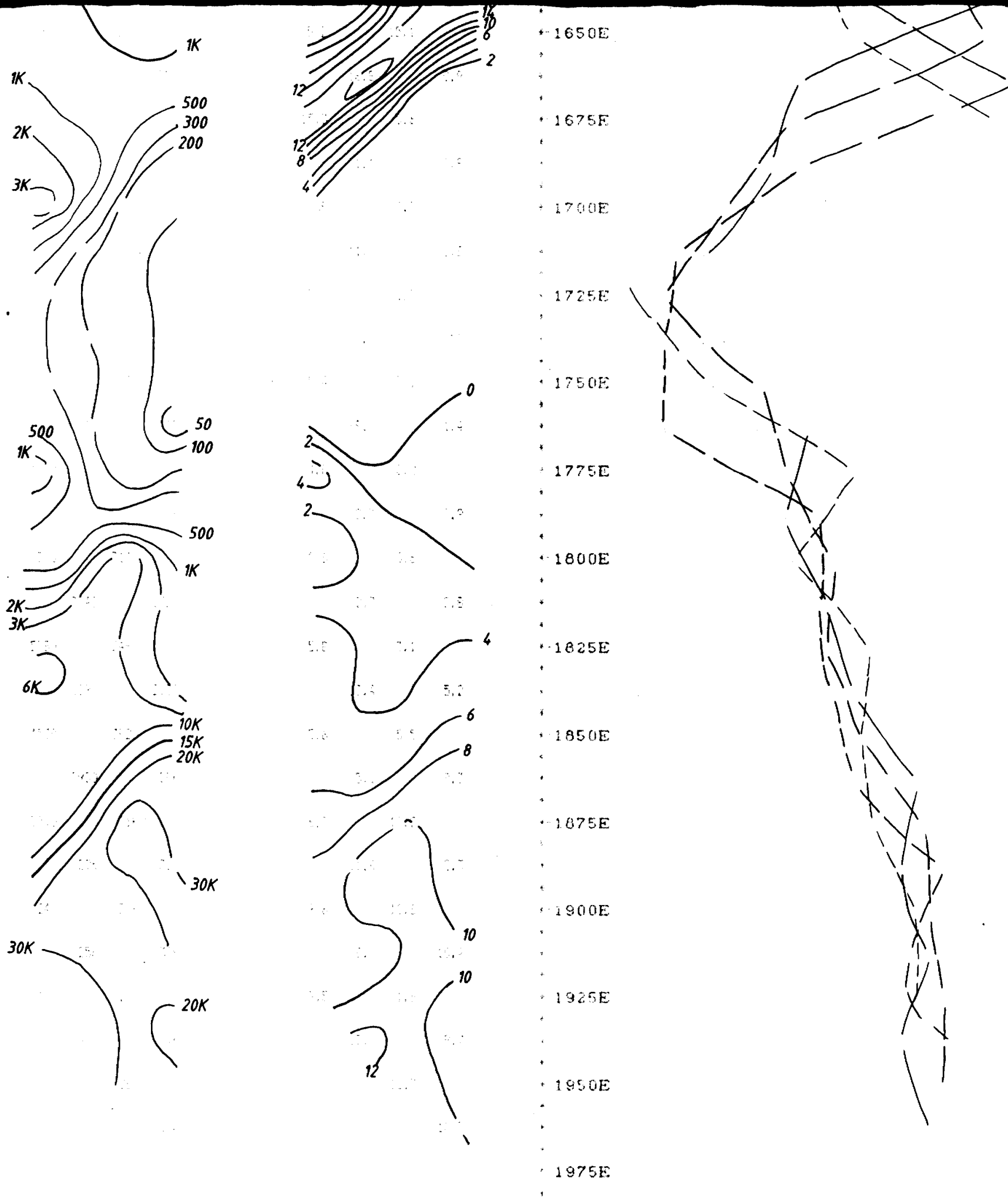
Property : MAISONVILLE TWP.
 Client : GLEN AUDEN RESOURCES

Date of Survey : 21/8/86
 Operator : CGK
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX TSD-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms



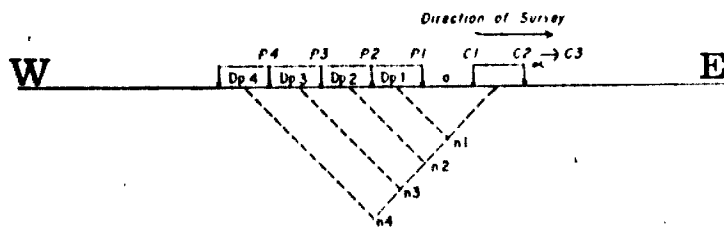
 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4
 'a' Spacing = 25 M



Property : MANSFIELD TWP. GRID 2
 Owner : GLEN YARDEN RESOURCES

Date of Survey : 12/8/02
 Operator : DGH
 Survey Array : DIF01E - DIF01E
 Mode : TIME DOMAIN
 Receiver : SCINTREX IFR 11
 Transmitter : SCINTREX IPC-8/10-W
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 350 ms
 Integration Time : 750 ms



Bry Bodger

 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

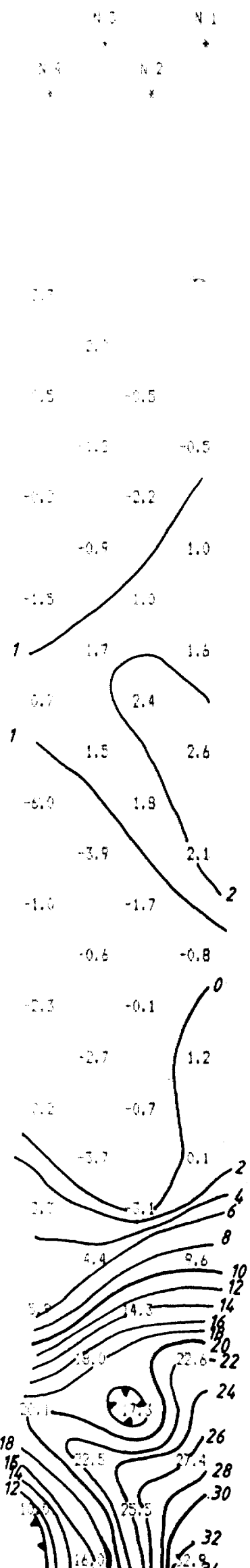
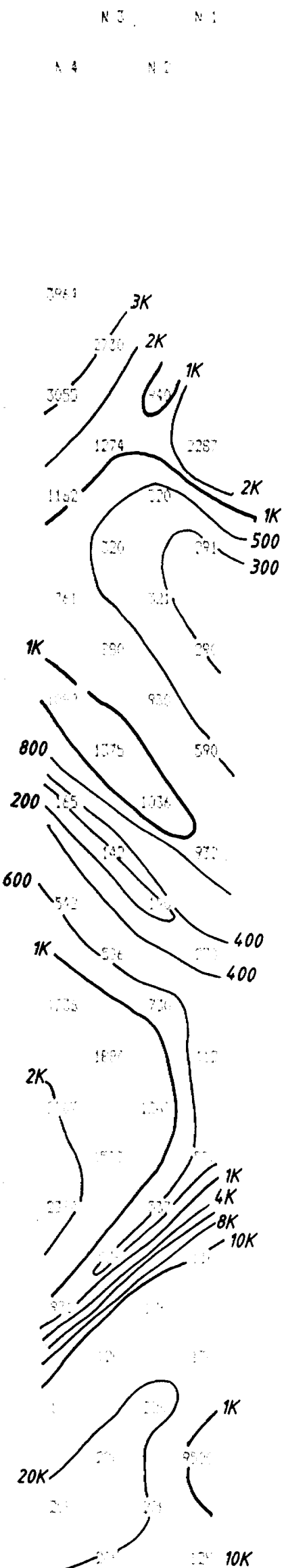
11 Pseudosections for N = 1 to 4
 25 M Spacing = 25 M

SCALE : 1:1250

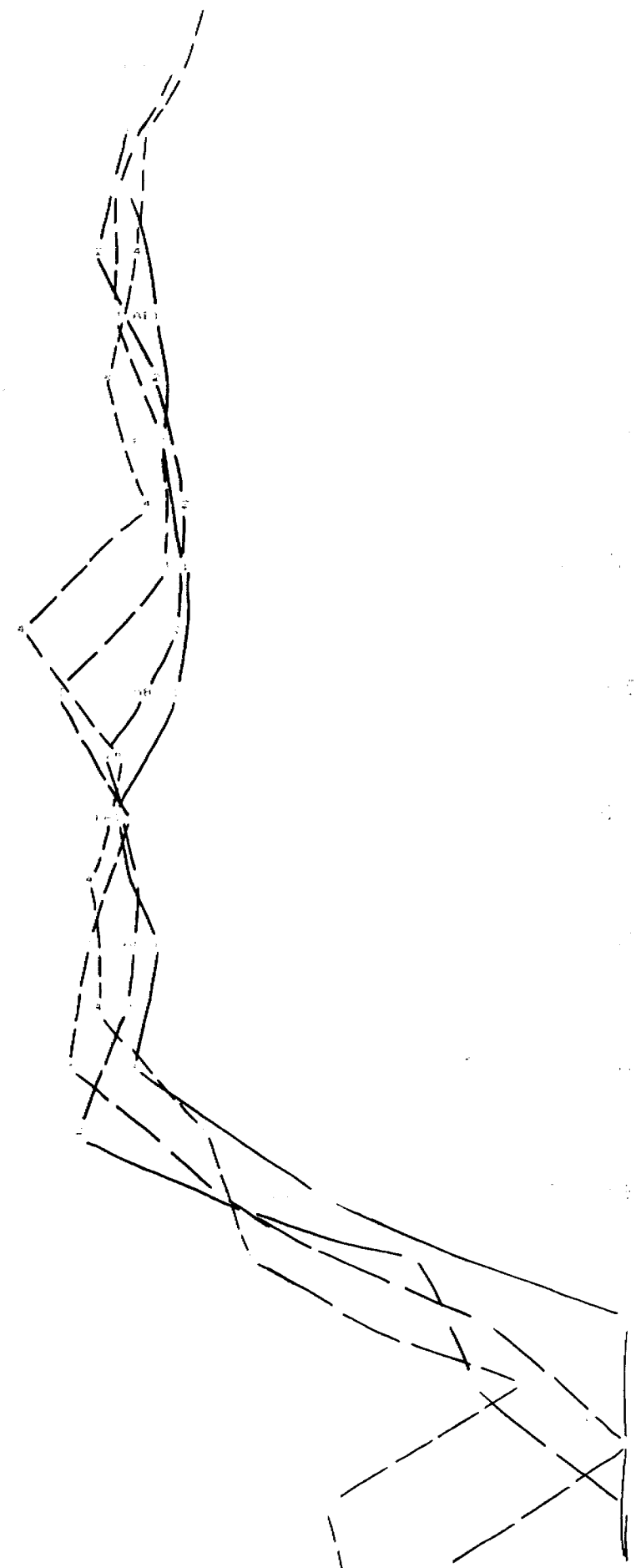
RESISTIVITY
(ohm - metres)

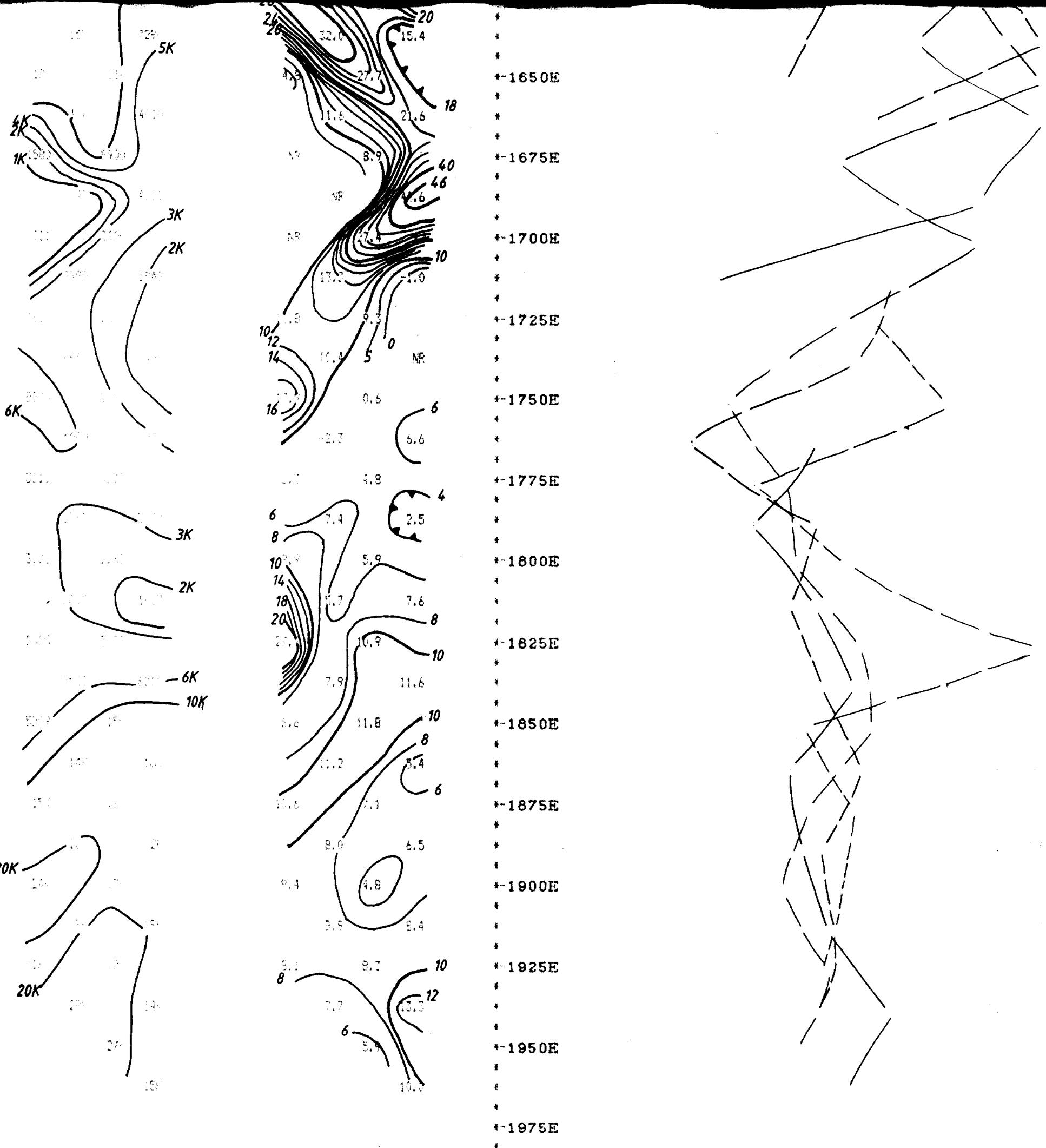
CHARGEABILITY
(milliseconds)

CHARGEABILITY



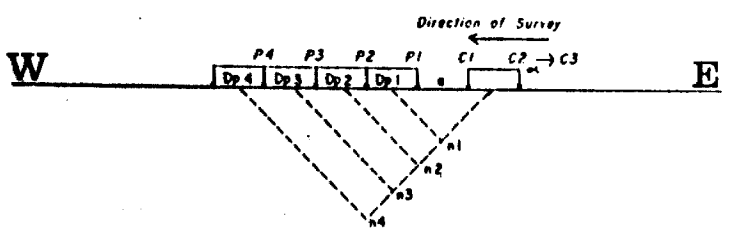
- +1250E
- +1275E
- +1300E
- +1325E
- +1350E
- +1375E
- +1400E
- +1425E
- +1450E
- +1475E
- +1500E
- +1525E
- +1550E
- +1575E





Property : MAISONVILLE TWP. GRID 2
 Client : GLEN AUDEN RESOURCES

Date of Survey : 14/8/86
 Operator : CGK
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX ISO-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

Greg Boyce

IP Pseudosections for N = 1 to 4

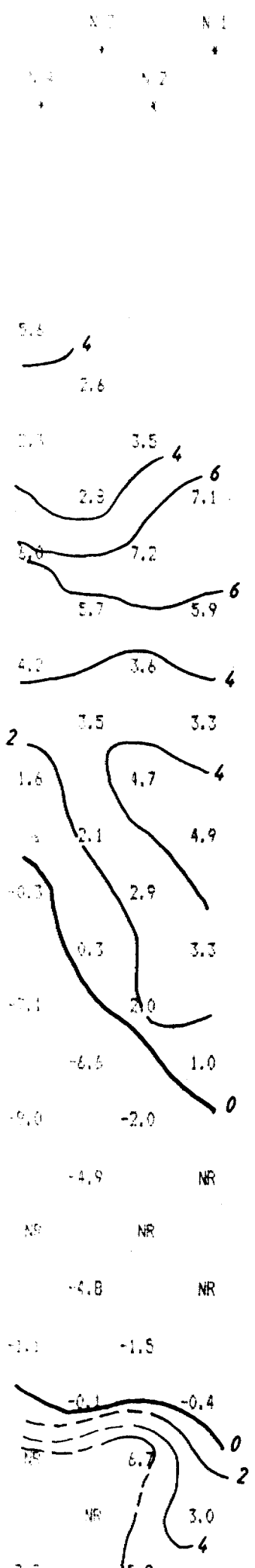
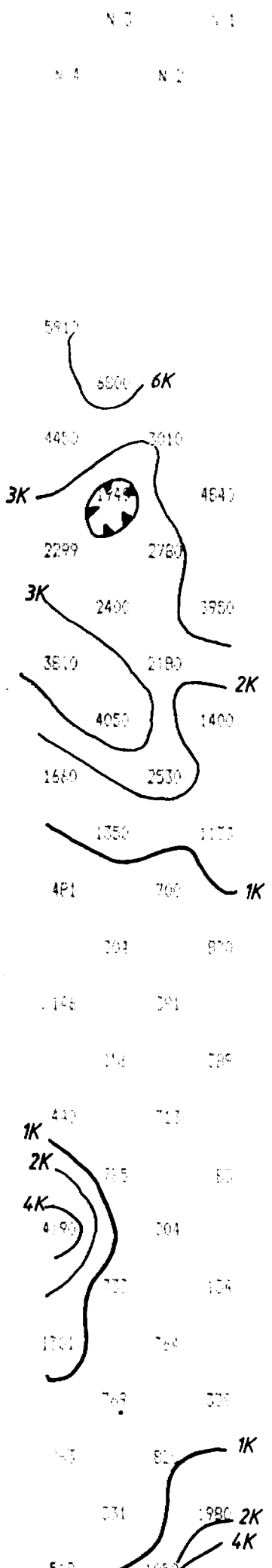
'a' Spacing = 25 M

SCALE : 1 : 1250

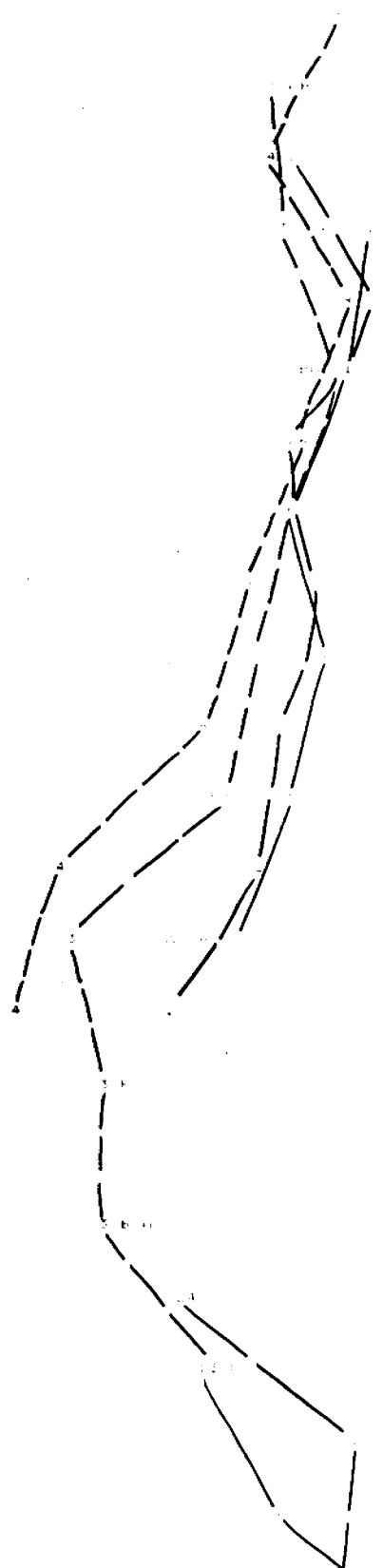
RESISTIVITY
(ohm - metres)

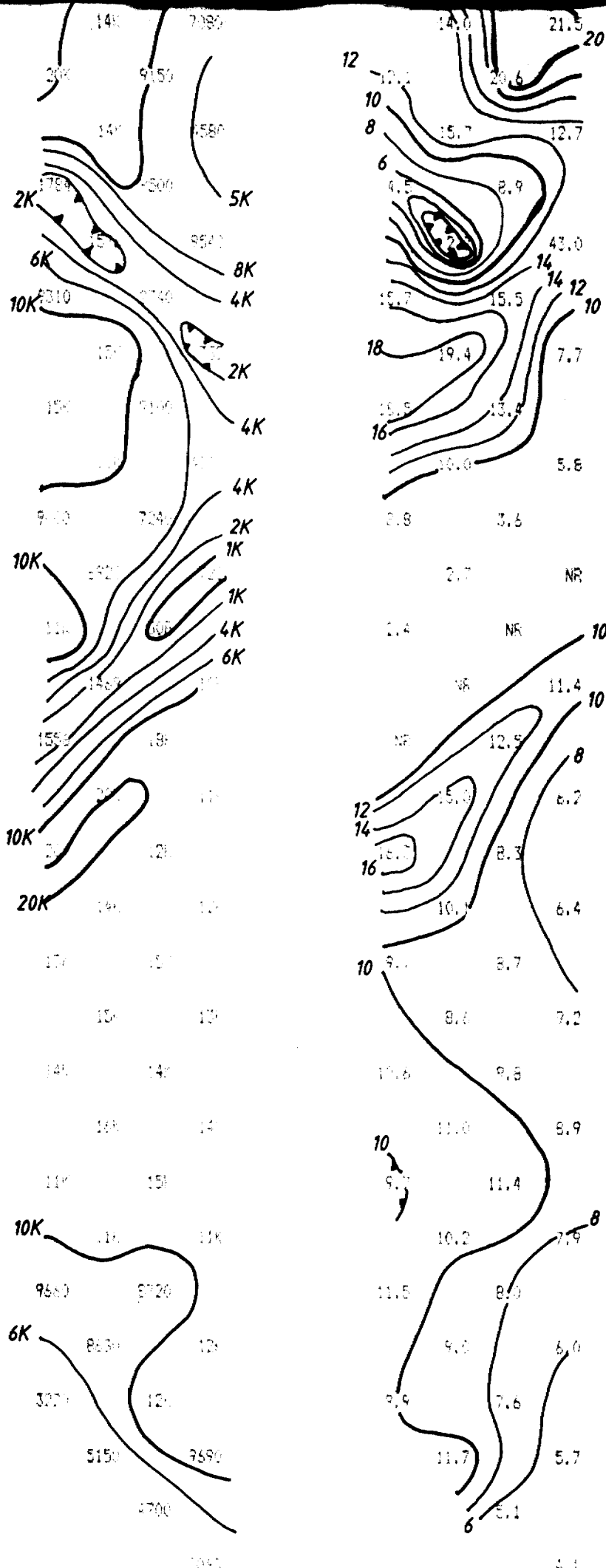
CHARGEABILITY
(milli-seconds)

CHARGEABILITY

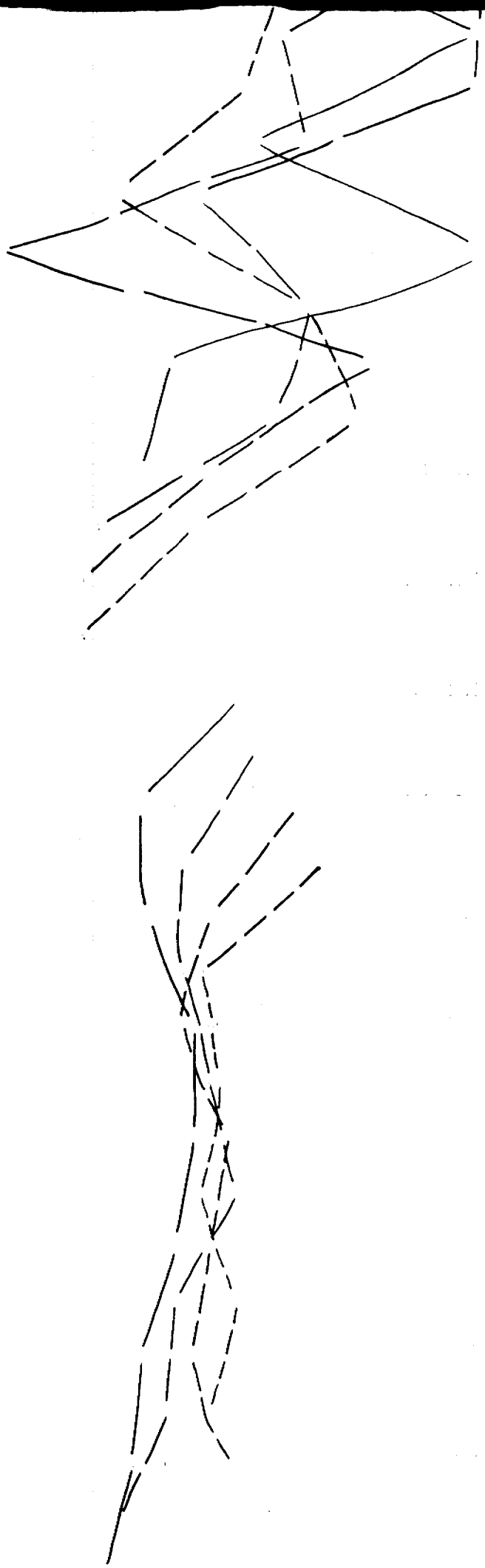


- * -1250E
- * -1275E
- * -1300E
- * -1325E
- * -1350E
- * -1375E
- * -1400E
- * -1425E
- * -1450E
- * -1475E
- * -1500E
- * -1525E
- * -1550E



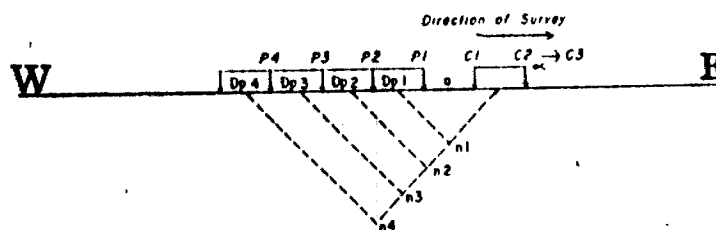


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* -1625E
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* -1650E
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* -1900E
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* -1925E
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* -1950E
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* -1975E
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Property : MAISONVILLE TWP. GRID 2
Client : GLEN AUDEN RESOURCES

Date of Survey : 15/8/86
Operator : CGK
Electrode Array : DIPOLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSD-3
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 360 ms
Integration Time : 780 ms



Greg Bridges

R. S. MIDDLETON EXPLORATION
SERVICES INC.

SCALE : 1 : 1250

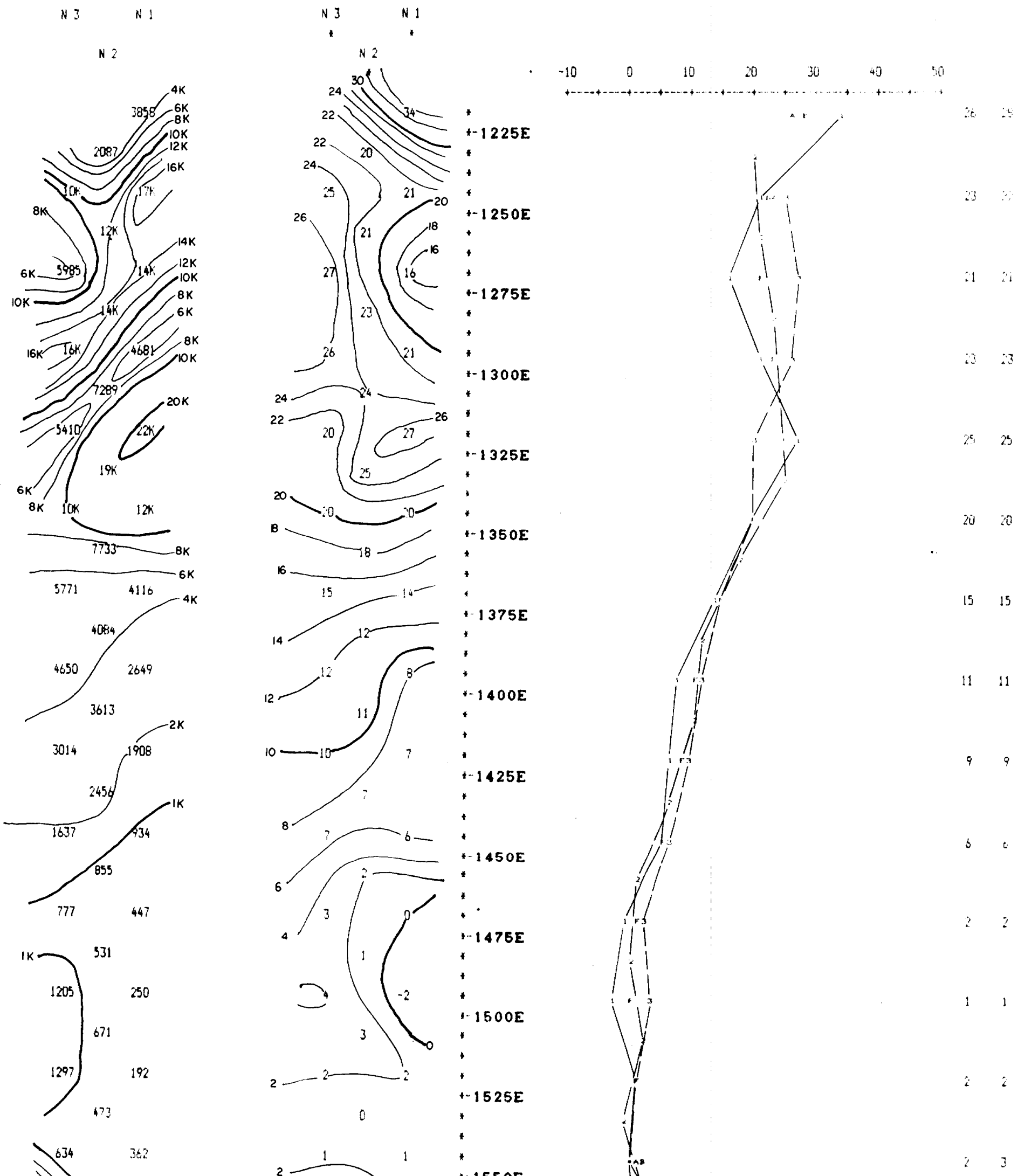
RESISTIVITY
(ohm - metres)

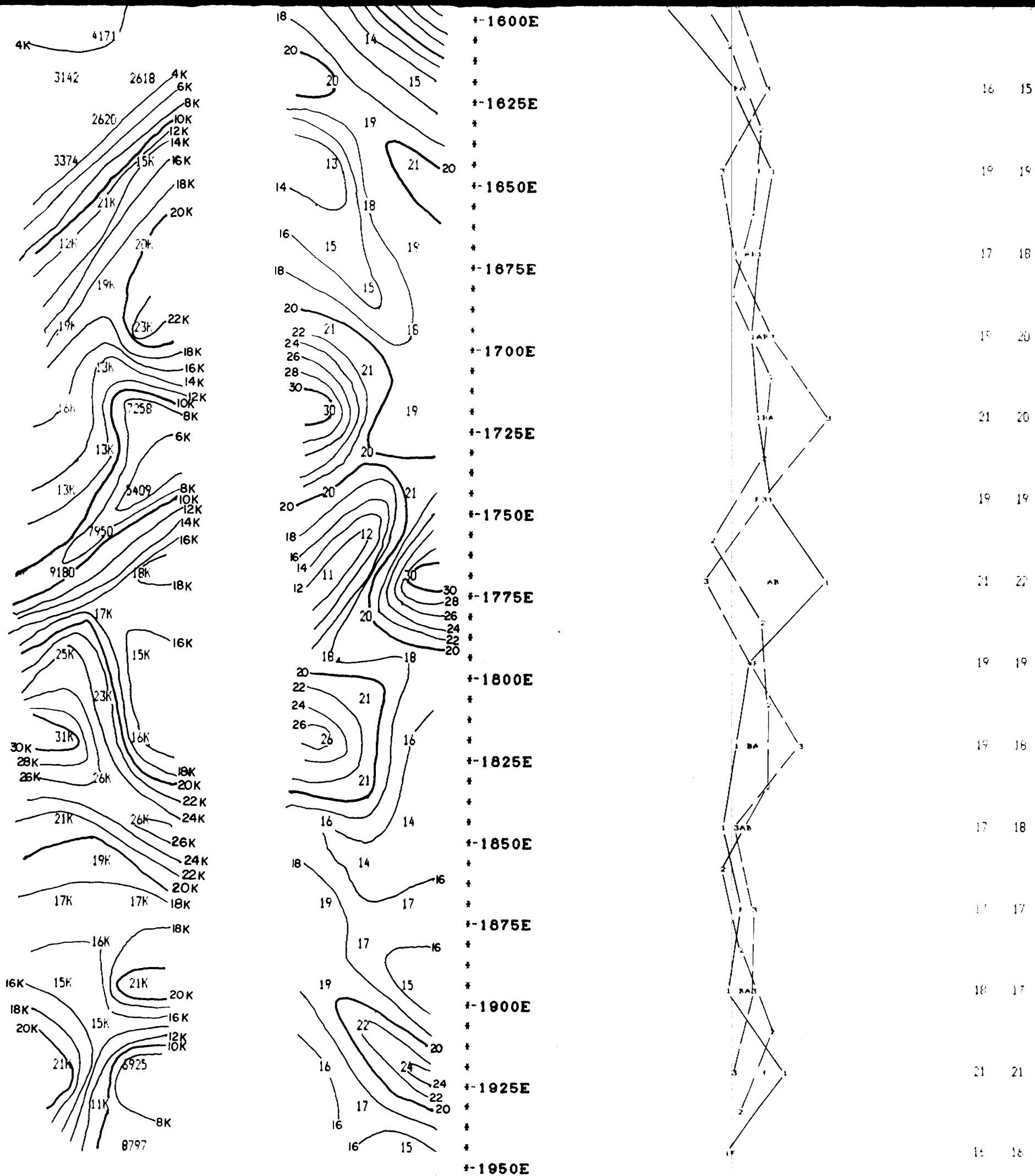
CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

RESISTIVITY
CHARGEABILITY

A B





Property : MAISONVILLE GRID 2

Client : GLEN AUDEN

Date of Survey : 18/3/86

Operator : BM

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

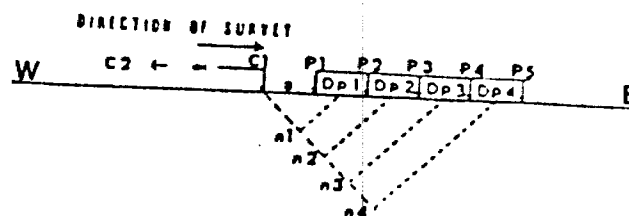
Receiver : SCINTREX IPR-8

Transmitter : PHOENIX IPT-1

Pulse Time : 2 Sec on 2 Sec off

Delay Time : 650 ms

Integration Time : 520 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

Gary Hodges

IP Pseudosections for N = 1 to 3

'a' Spacing = 25 M

SCALE : 1 : 1250

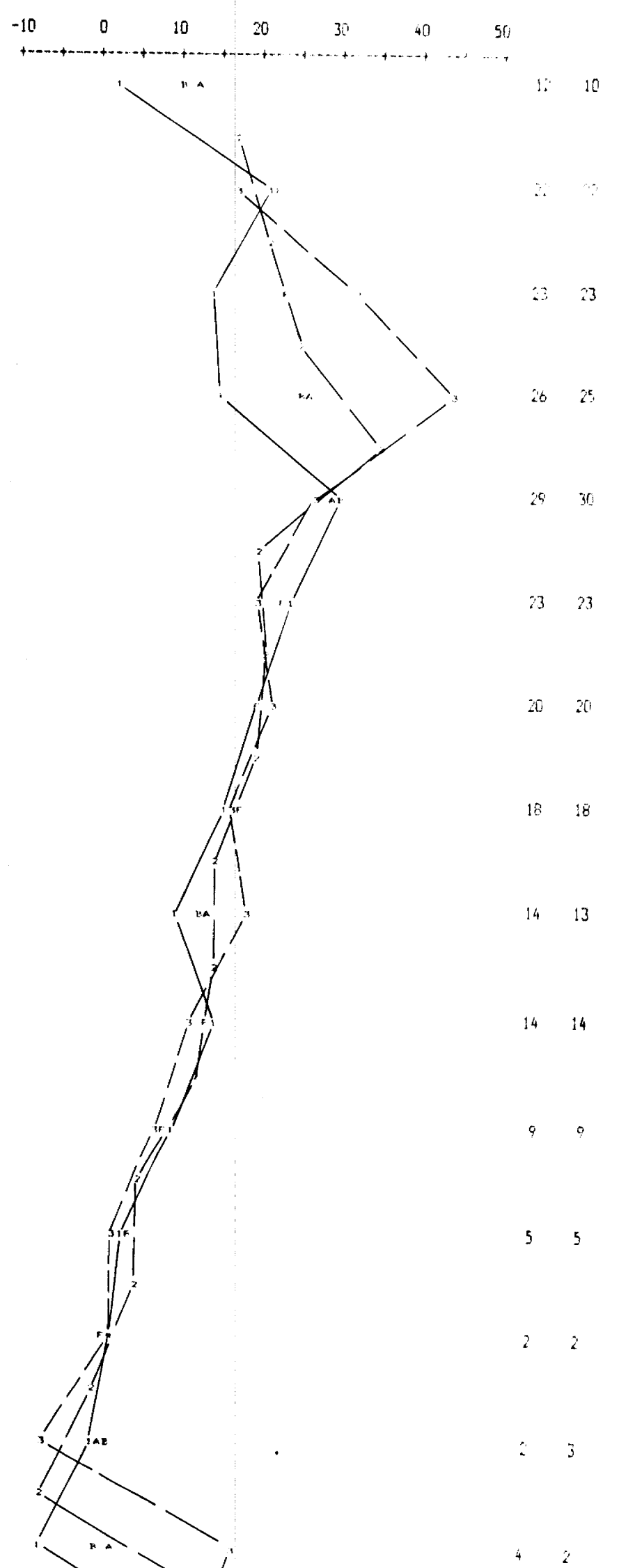
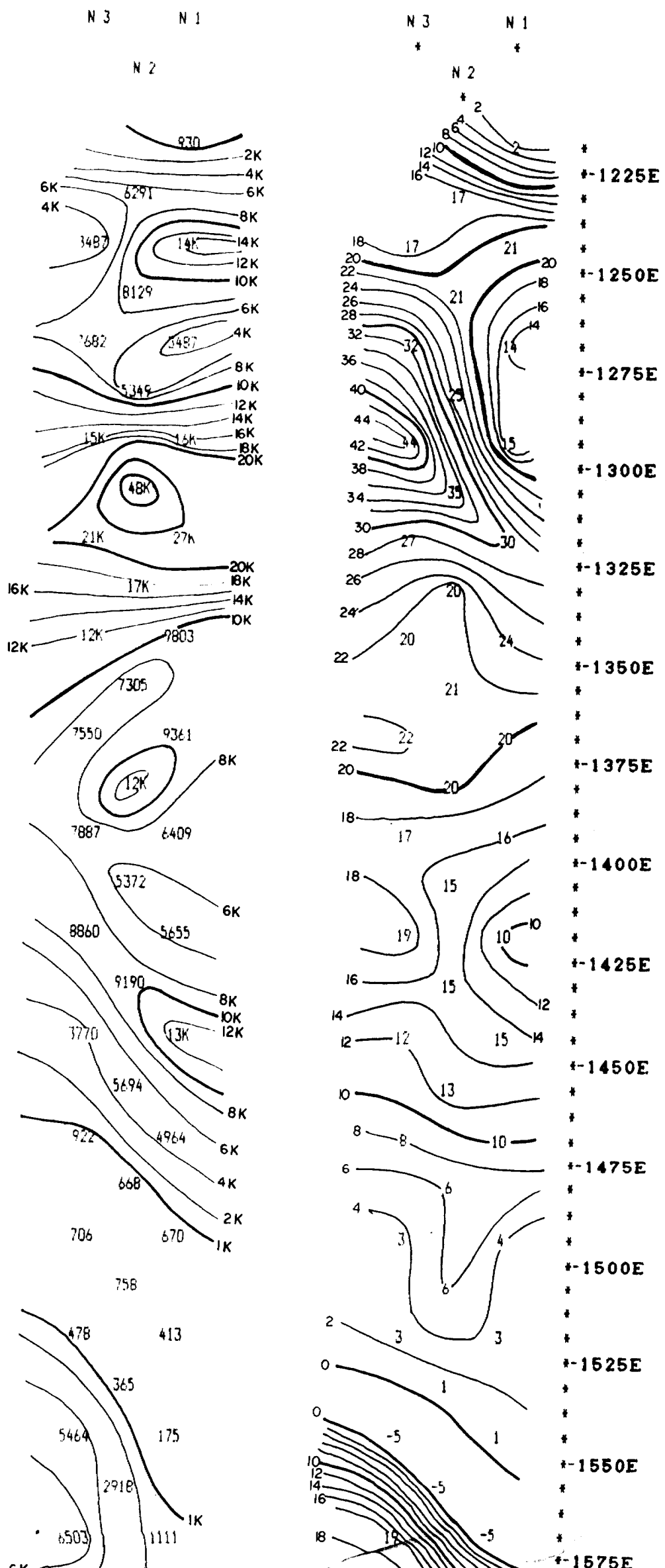
RESISTIVITY
(ohm - metres)

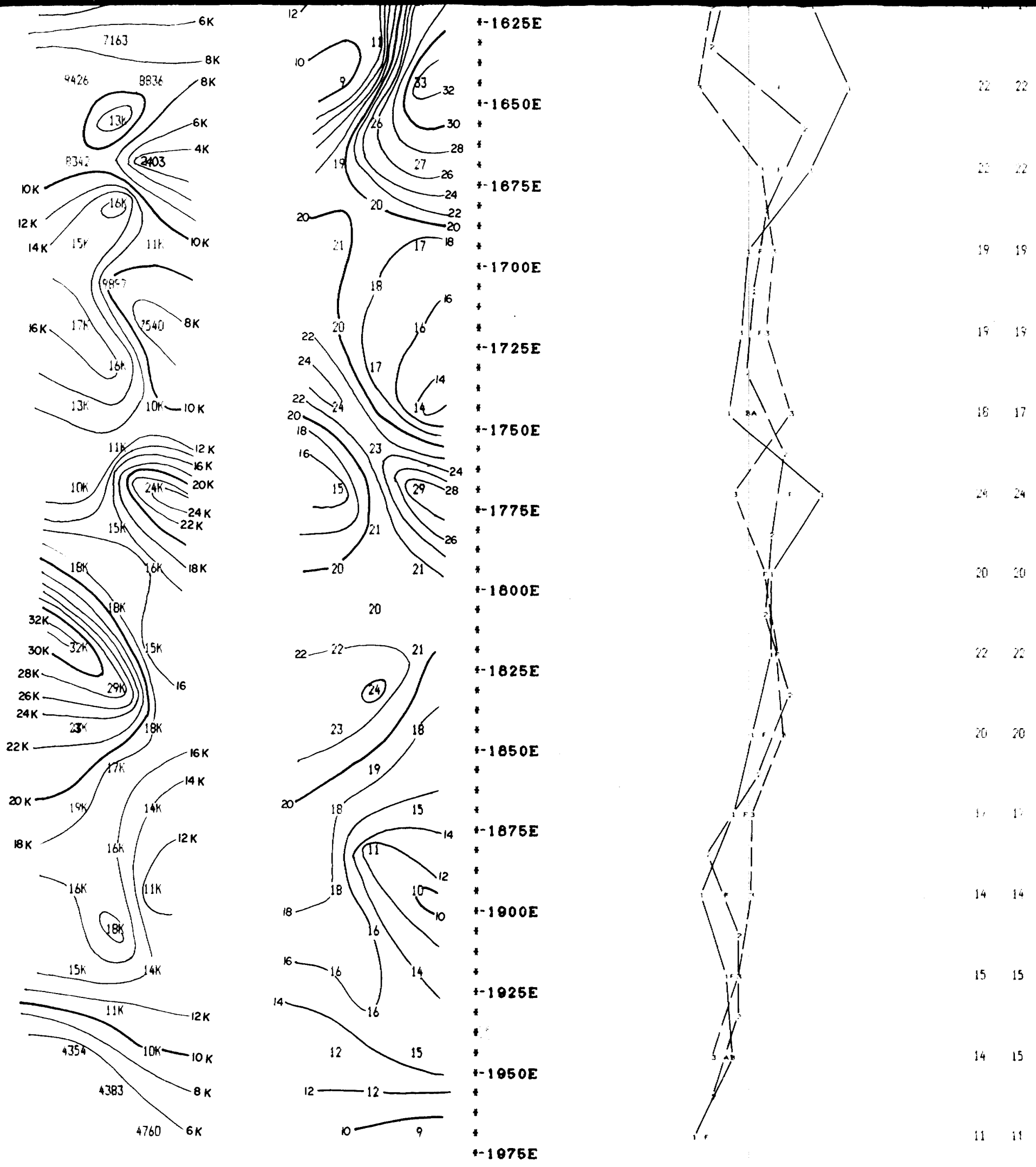
CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

F
R
A
S
E
R

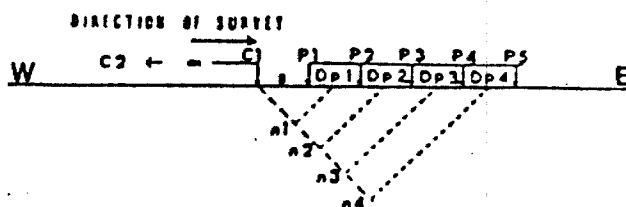
A B





Property : MAISONVILLE GRID 2
 Client : GLEN AUDEN

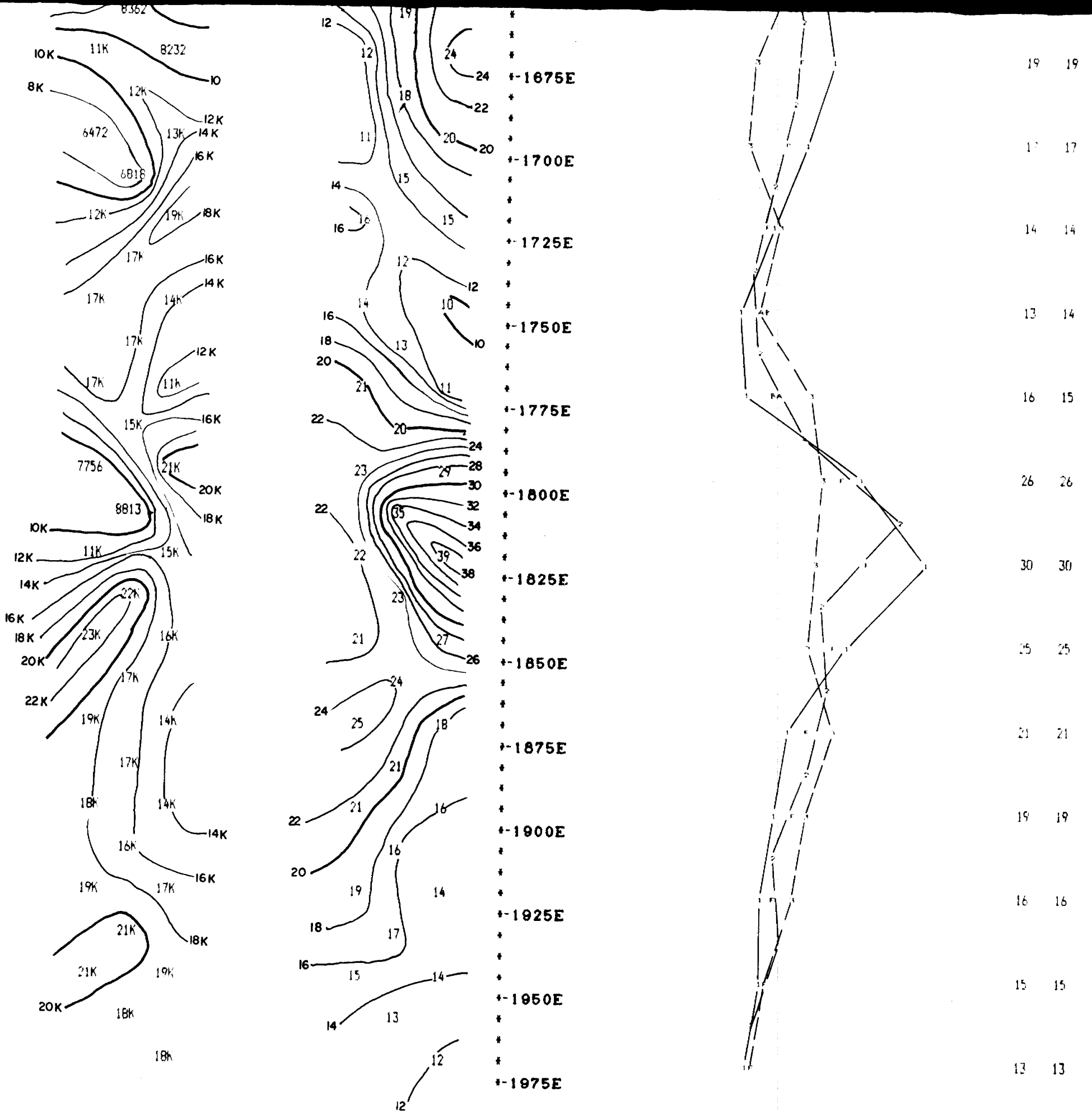
Date of Survey : 21/3/86
 Operator : RAM
 Electrode Array : POLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : CRONE IP-4
 Transmitter : SCINTREX TSQ-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 450 ms
 Integration Time : 900 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

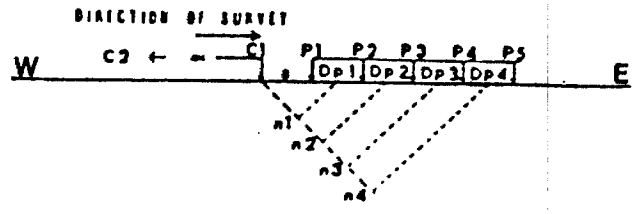
IP Pseudosections for N = 1 to 3

'a' Spacing = 25 M



Property : MAISONVILLE GRID 2
 Client : GLEN AUDEN

Date of Survey : 21/3/86
 Operator : RAM
 Electrode Array : POLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : CRONE IP-4
 Transmitter : SCINTREX TSQ-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 450 ms
 Integration Time : 900 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 3

'a' Spacing = 25 M

LINE 3110 N

Greg Hodges

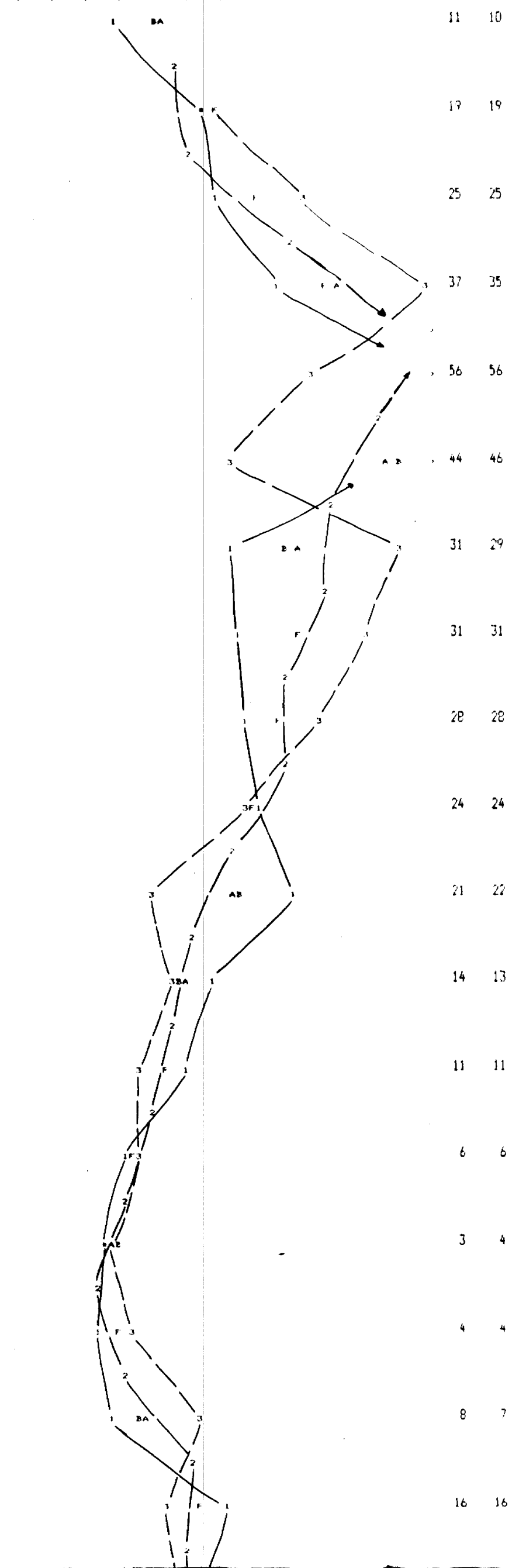
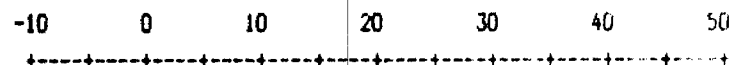
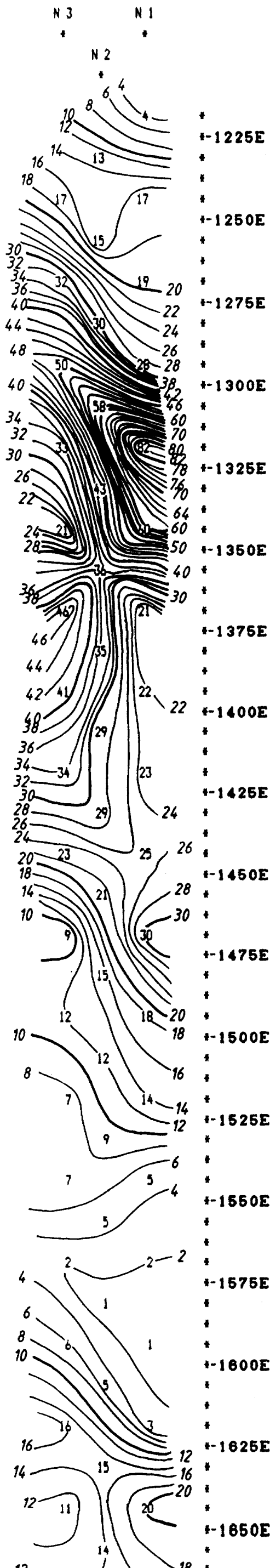
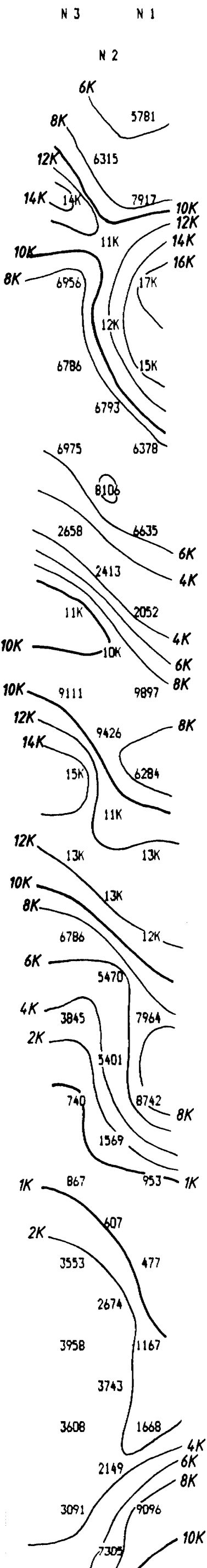
RESISTIVITY
(ohm - metres)

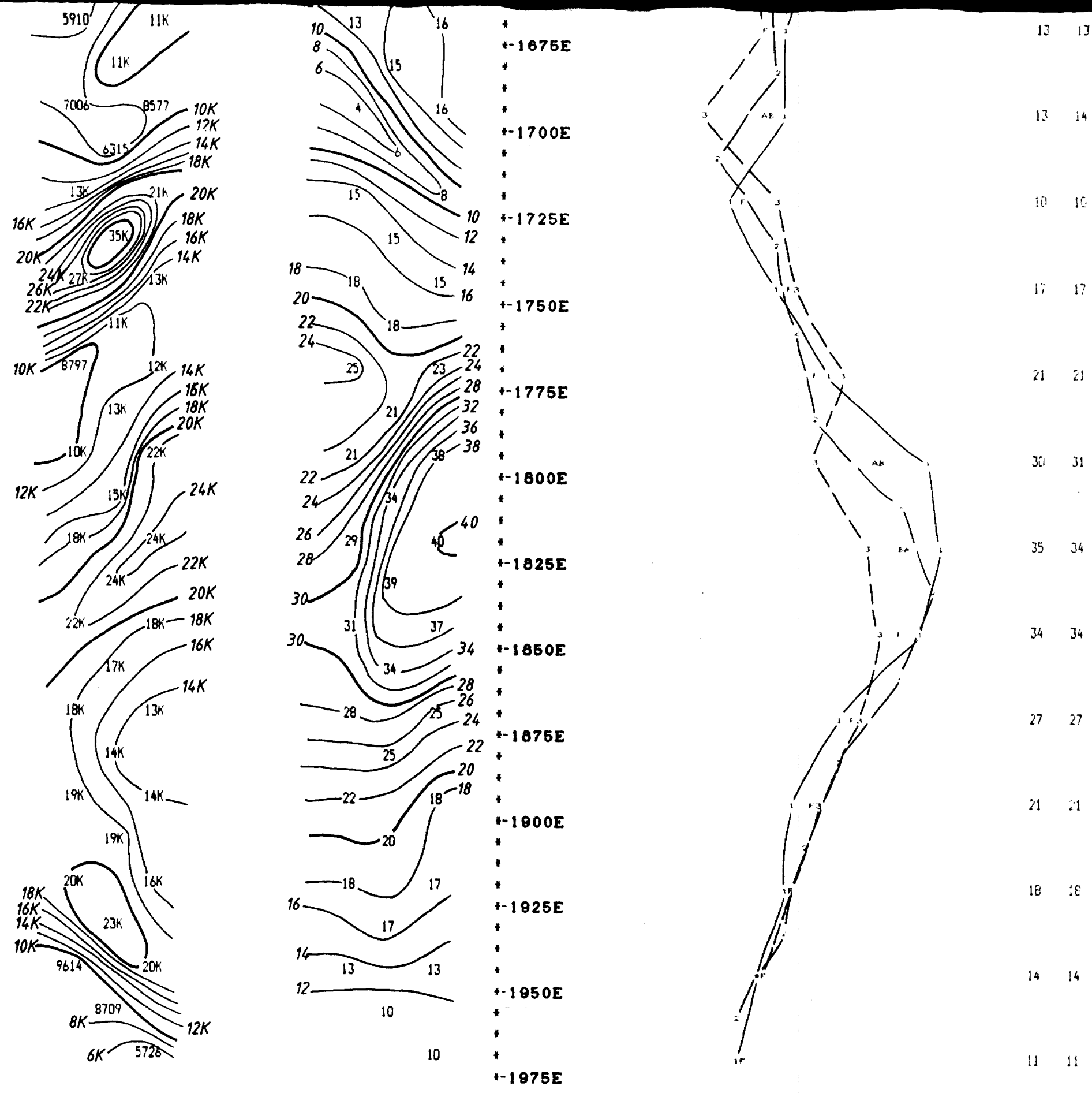
CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

F
P
A
S
E
R

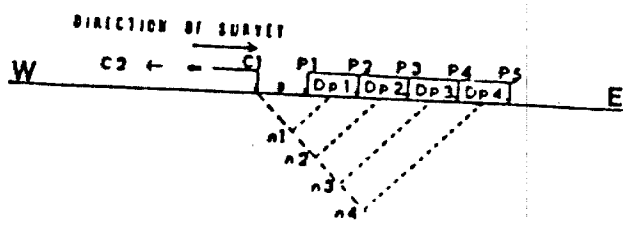
A B





Property : MAISONVILLE GRID 2
 Client : GLEN AUDEN

Date of Survey : 18/3/86
 Operator : BM
 Electrode Array : POLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-8
 Transmitter : PHOENIX IPT-1
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 650 ms
 Integration Time : 520 ms



R. S. MIDDLETON EXPLORATION SERVICES INC.

G. S. Middleton

IP Pseudosections for N = 1 to 3

'a' Spacing = 25 M

LINE 3160 N

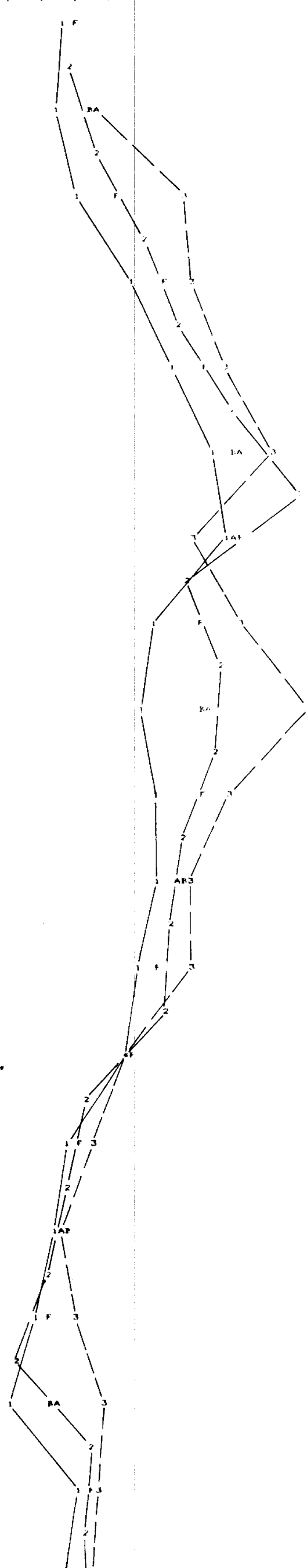
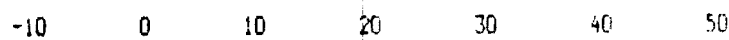
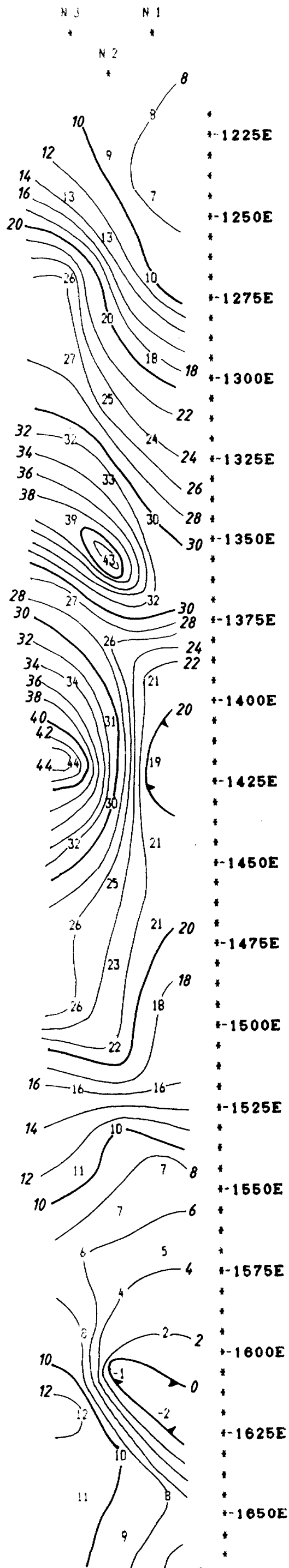
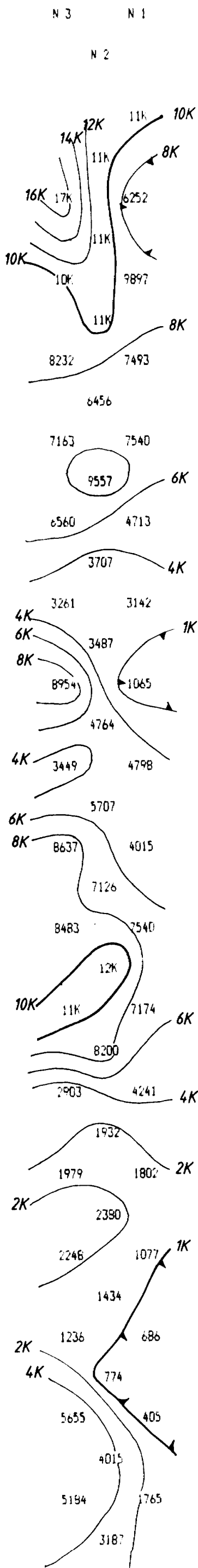
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

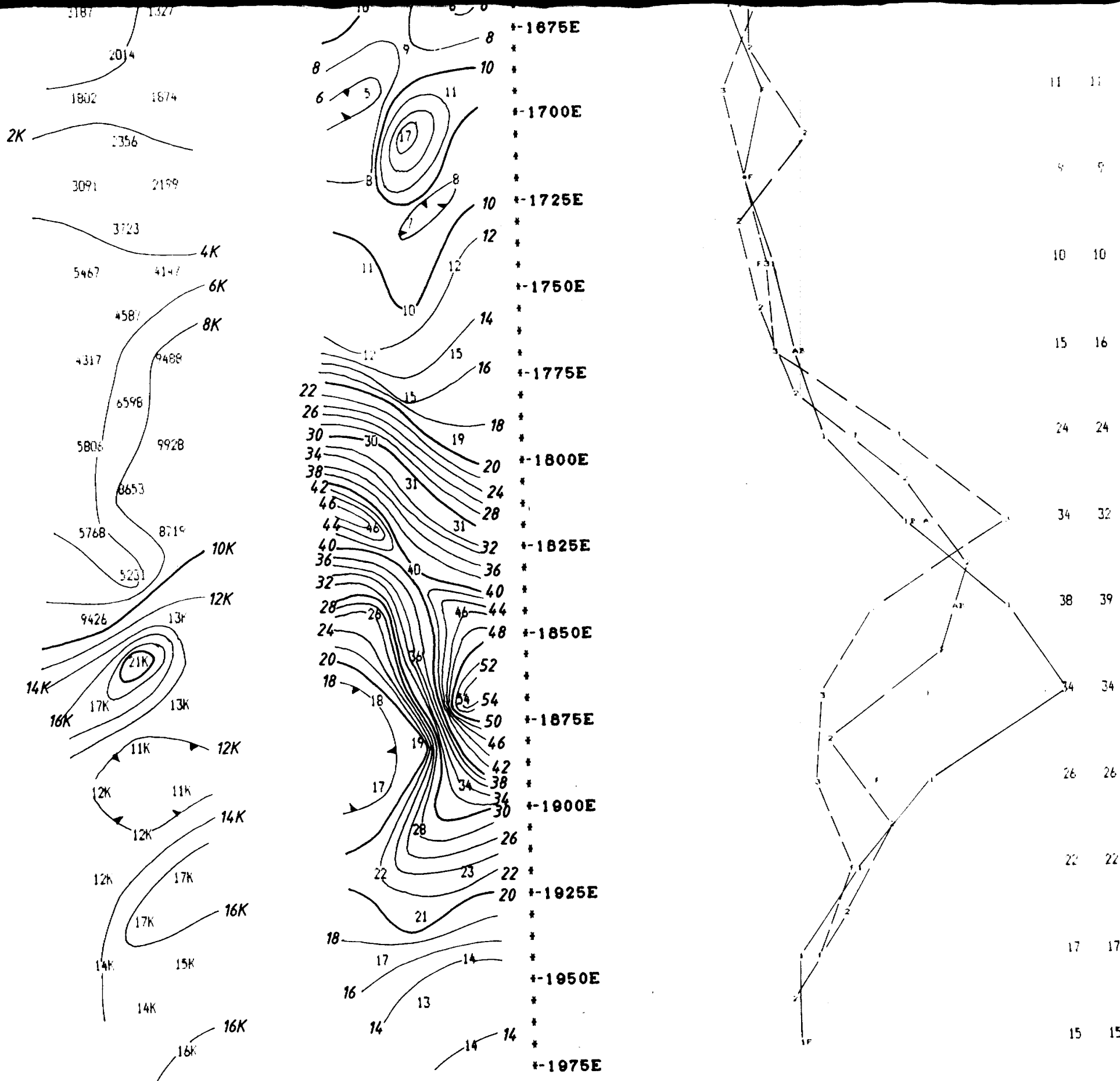
CHARGEABILITY PROFILE

F I
F I
A L
S T
E E
R R

A B

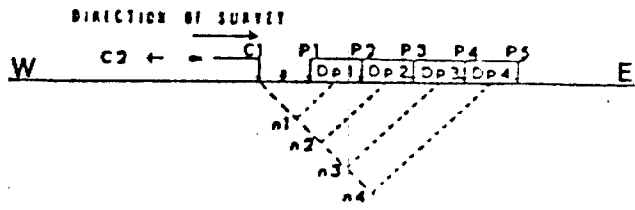


Elevation	Point A	Point B
1225E	10	10
1250E	13	12
1275E	16	16
1300E	23	23
1325E	29	29
1350E	34	33
1375E	33	34
1400E	28	28
1425E	29	28
1450E	28	28
1475E	24	25
1500E	21	21
1525E	17	17
1550E	9	9
1575E	6	7
1600E	5	4
1625E	10	10
1650E	8	8



Property : MAISONVILLE GRID 2
 Client : GLEN AUDEN

Date of Survey : 18/3/86
 Operator : BM
 Electrode Array : POLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-8
 Transmitter : PHOENIX IPT-1
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 650 ms
 Integration Time : 520 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 3

'a' Spacing = 25 M

LINE 3210 N

SCALE : 1:1250

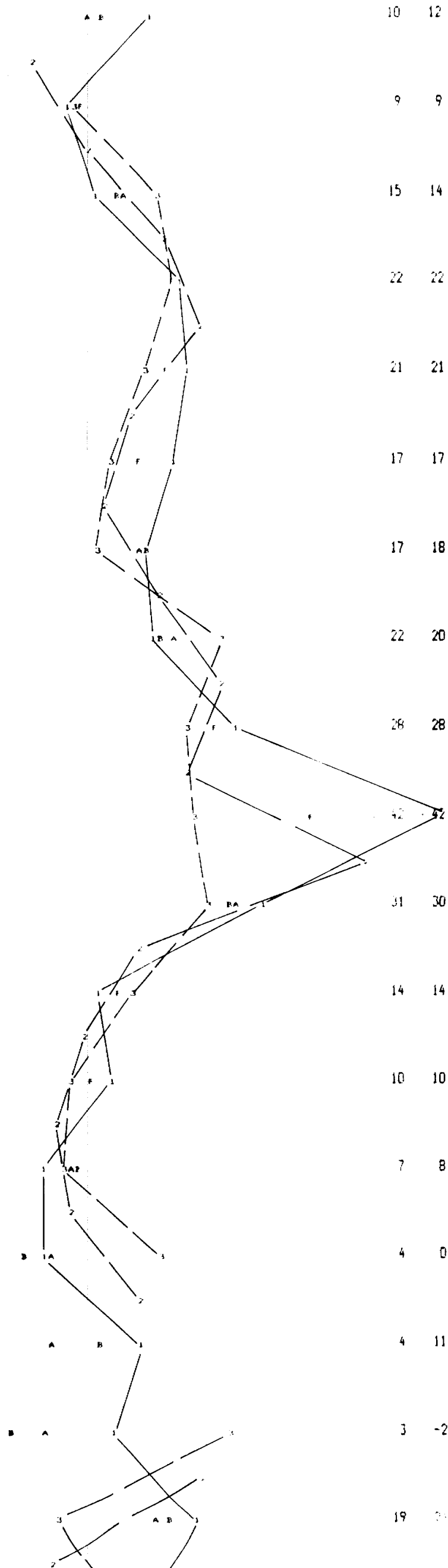
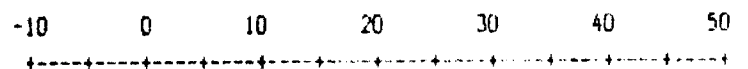
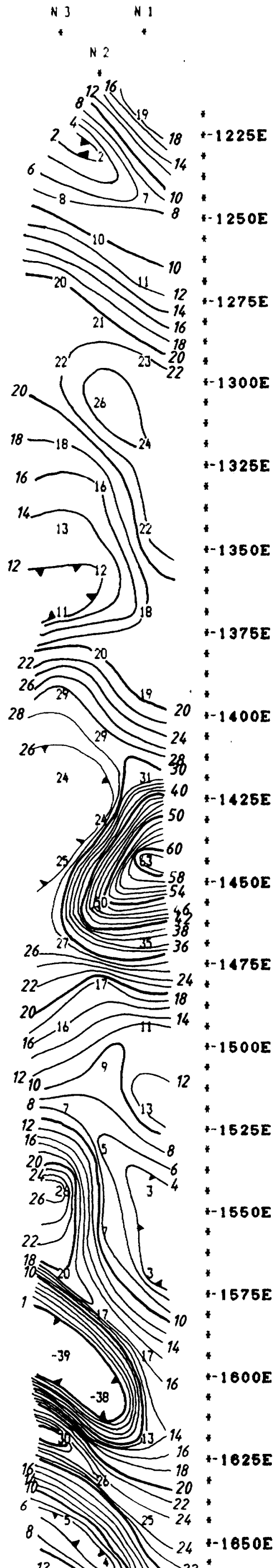
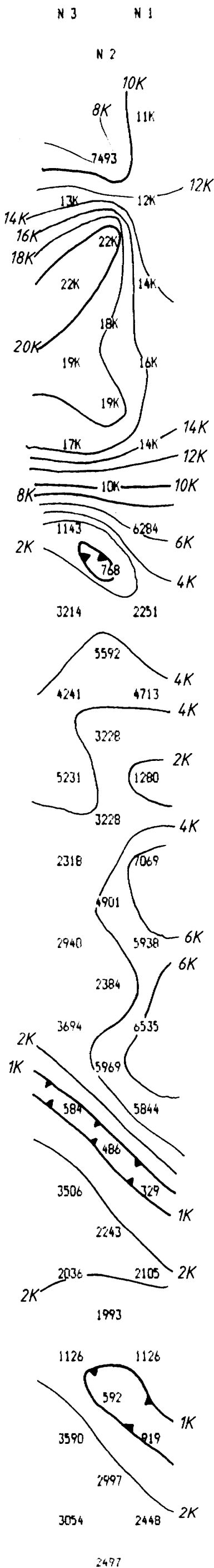
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

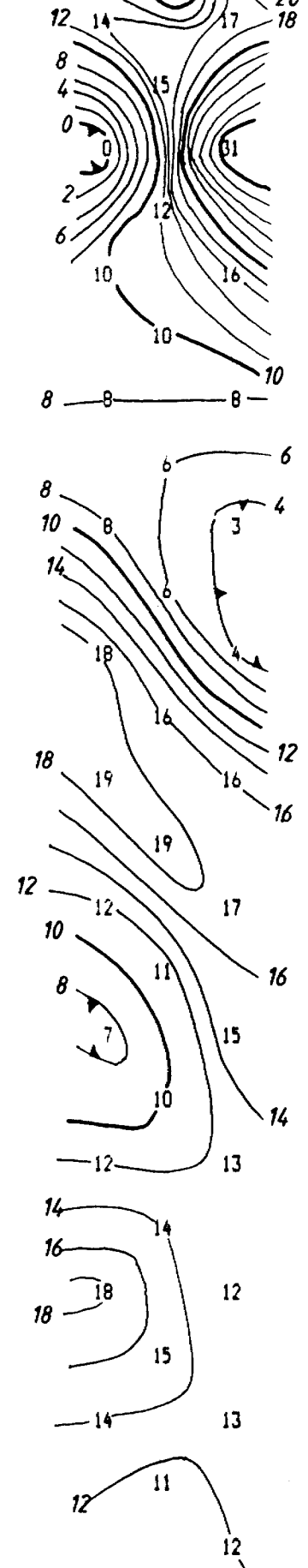
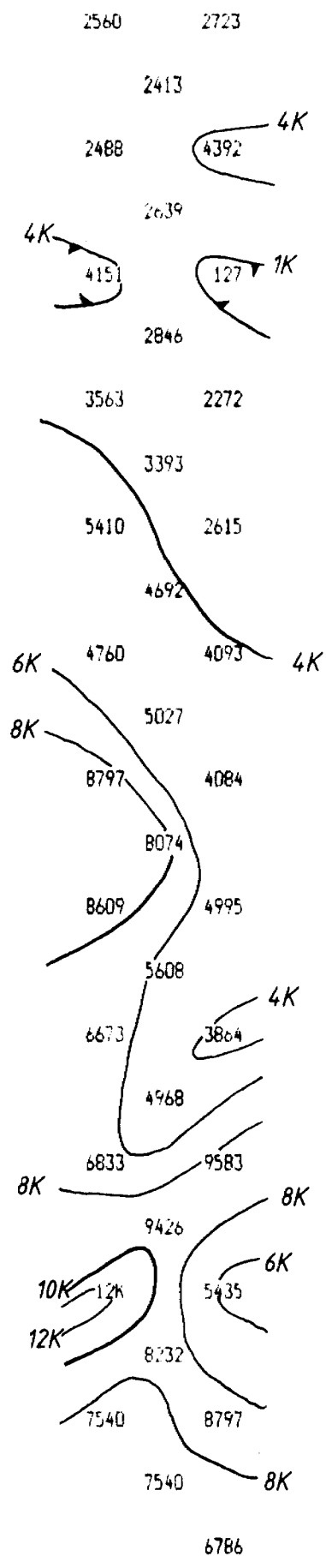
CHARGEABILITY PROFILE

F
P
A
S
E
R

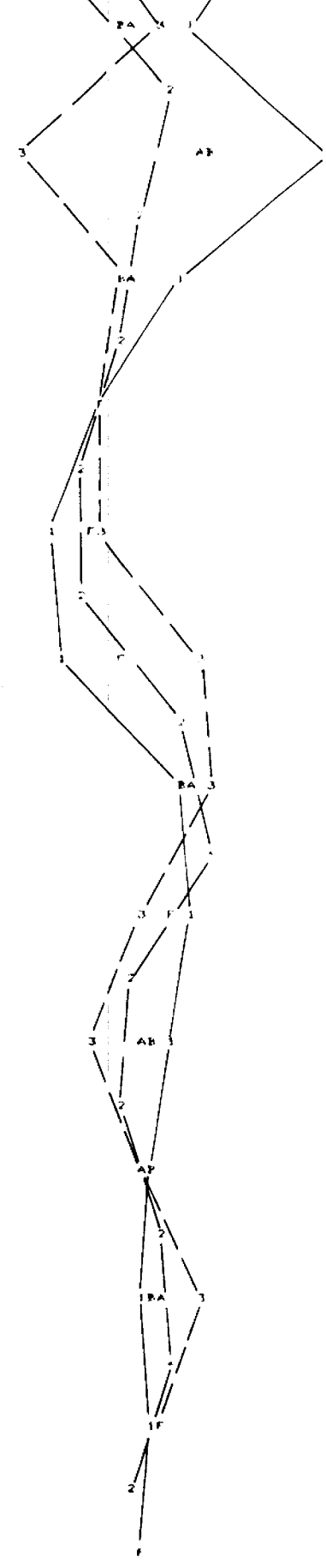
A B



Station	A	B
10	12	
9	9	
15	14	
22	22	
21	21	
17	17	
17	18	
22	20	
28	28	
31	30	
14	14	
10	10	
7	8	
4	0	
4	11	
3	-2	
19	2	



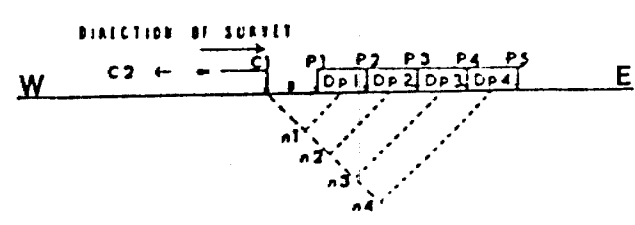
+1675E
 +1700E
 +1725E
 +1750E
 +1775E
 +1800E
 +1825E
 +1850E
 +1875E
 +1900E
 +1925E
 +1950E
 +1975E



11 10
 16 19
 11 10
 8 8
 7 7
 10 10
 17 16
 15 15
 12 13
 12 13
 14 13
 14 14
 12 12

Property : MAISONVILLE GRID 2
 Client : GLEN AUDEN

 Date of Survey : 18/3/86
 Operator : BM
 Electrode Array : POLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-8
 Transmitter : PHOENIX IPT-1
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 650 ms
 Integration Time : 520 ms



 R.S. MIDDLETON EXPLORATION
 SERVICES INC.

Greg Bodger

IP Pseudosections for N = 1 to 3

'a' Spacing = 25 M

LINE 3260 N

SCALE : 1:1250

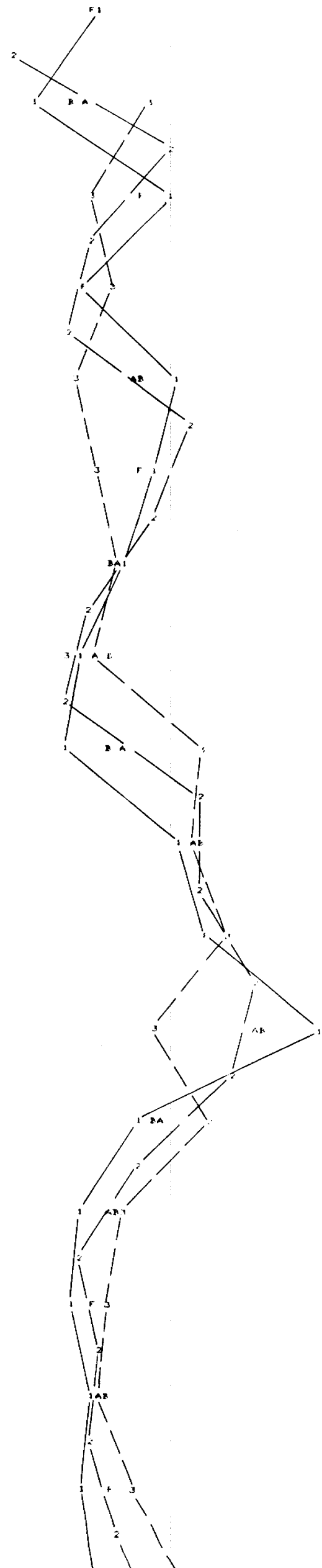
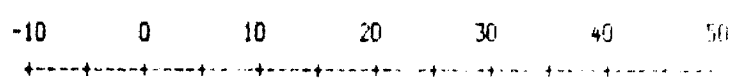
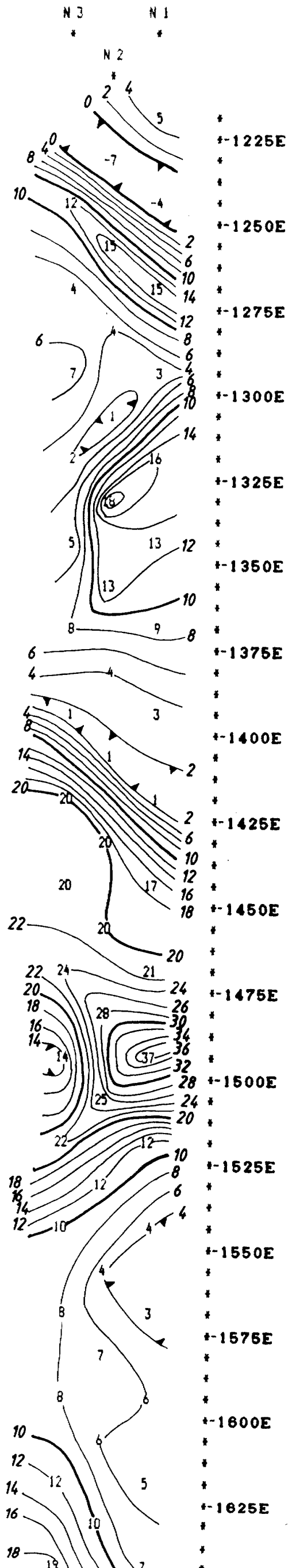
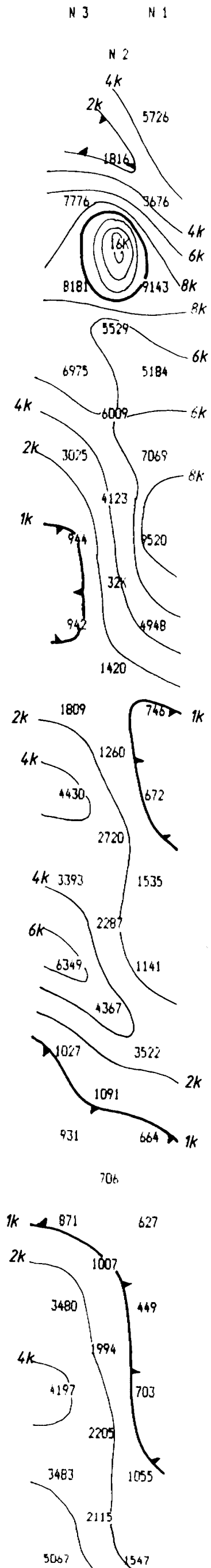
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

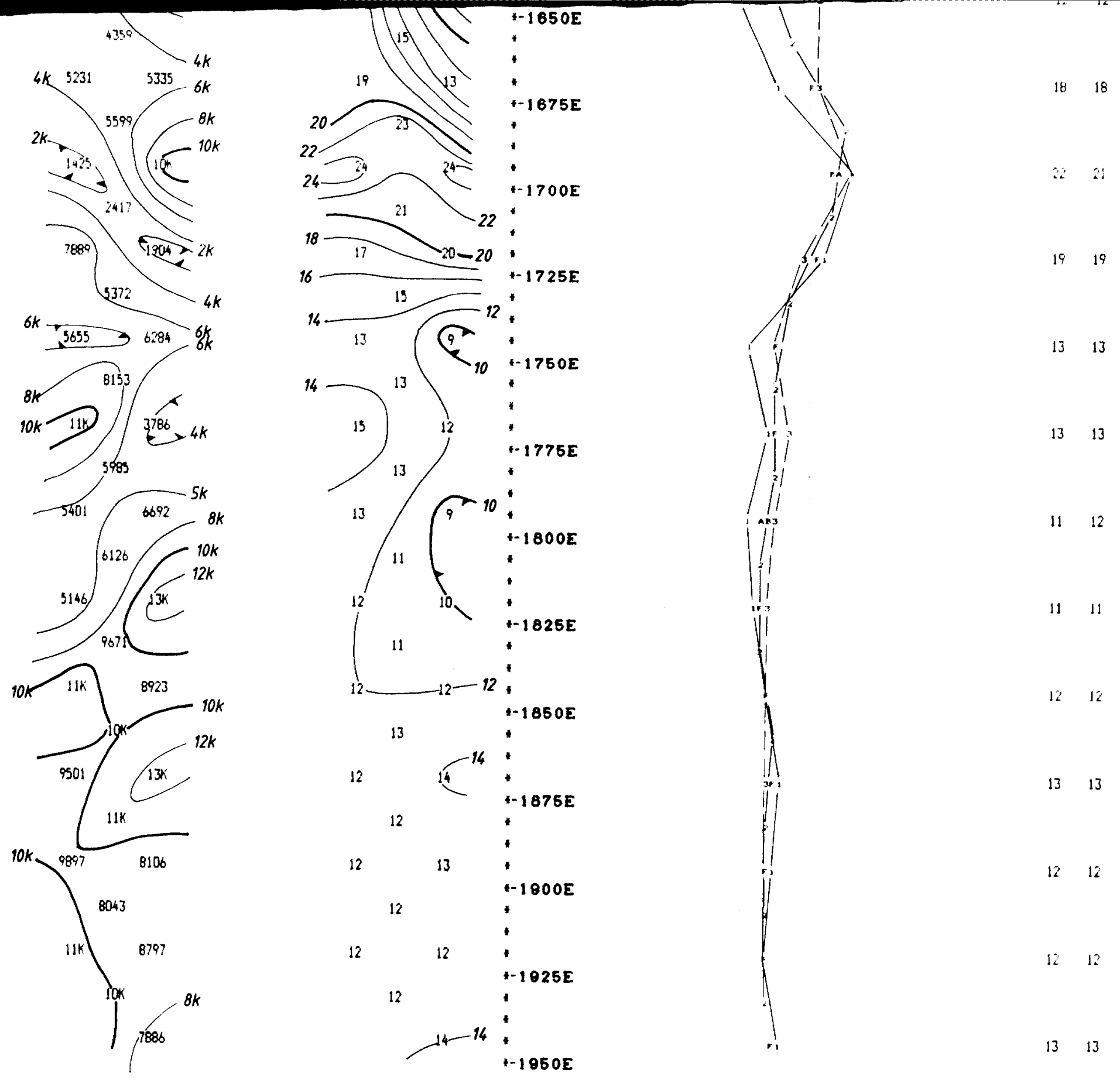
CHARGEABILITY PROFILE

F I
R A
S E
E R

A B

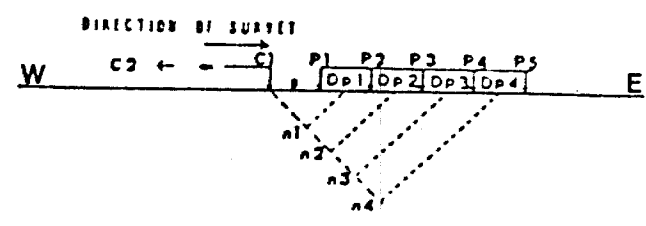


Station	Resistivity (ohm-m)	Chargeability (ms)
1	1000	10
2	2000	20
3	3000	30
4	4000	40
5	5000	50
6	6000	60
7	7000	70
8	8000	80
9	9000	90
10	10000	100
11	11000	110
12	12000	120
13	13000	130
14	14000	140
15	15000	150
16	16000	160
17	17000	170
18	18000	180
19	19000	190
20	20000	200
21	21000	210
22	22000	220
23	23000	230
24	24000	240
25	25000	250
26	26000	260
27	27000	270
28	28000	280
29	29000	290
30	30000	300
31	31000	310
32	32000	320
33	33000	330
34	34000	340
35	35000	350
36	36000	360
37	37000	370
38	38000	380
39	39000	390
40	40000	400
41	41000	410
42	42000	420
43	43000	430
44	44000	440
45	45000	450
46	46000	460
47	47000	470
48	48000	480
49	49000	490
50	50000	500



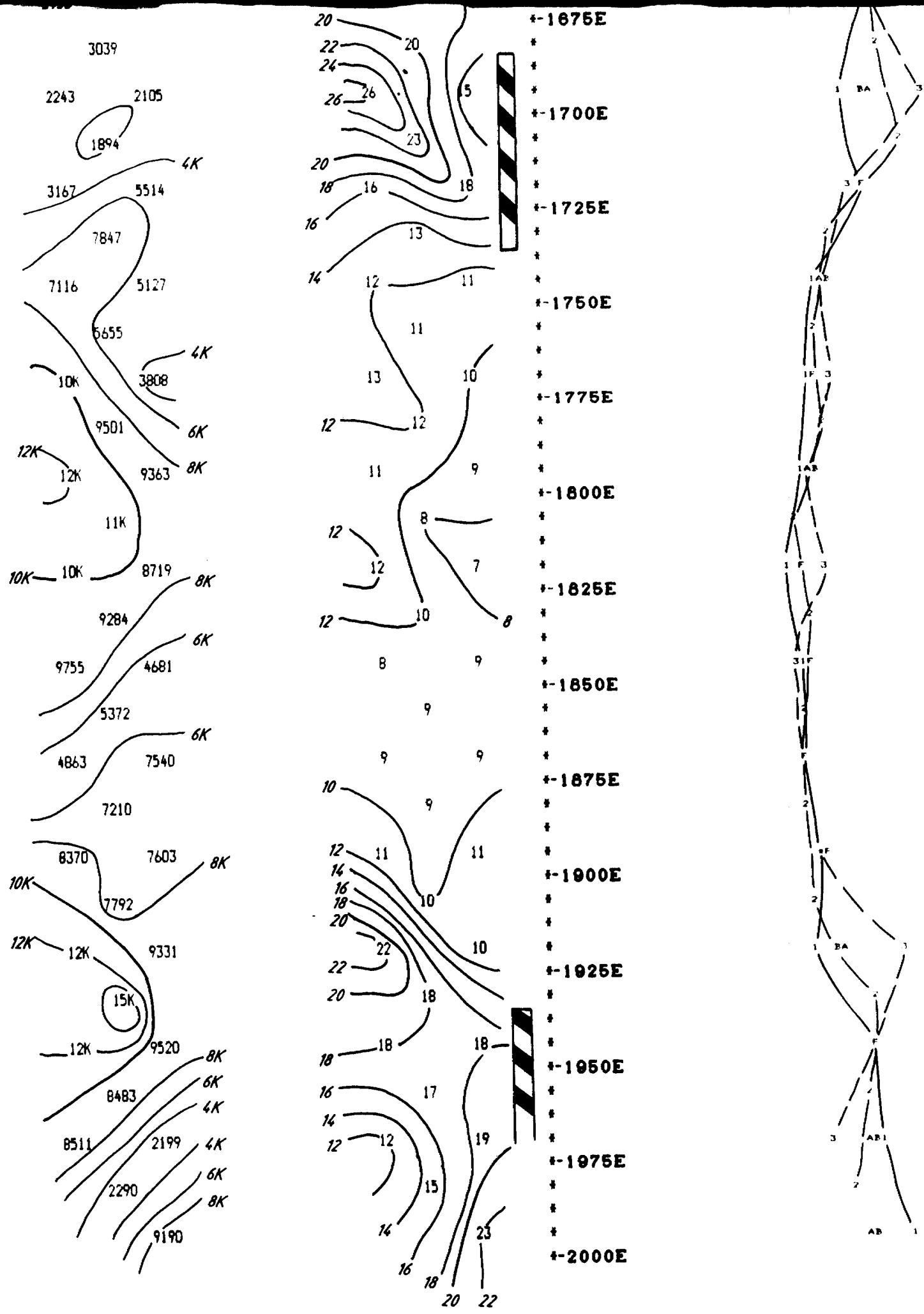
Property : MAISONVILLE GRID 2
 Client : GLEN AUDEN

Date of Survey : 17/3/86
 Operator : RJL
 Electrode Array : POLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-8
 Transmitter : SCINTREX IPC-8
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 650 ms
 Integration Time : 520 ms



 R.S. MIDDLETON EXPLORATION
 SERVICES INC.

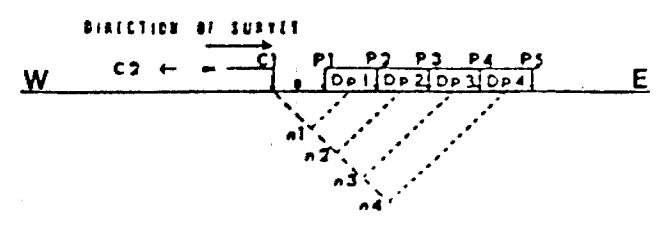
IP Pseudosections for N = 1 to 3
 'a' Spacing = 25 M
 LINE 3310 N



19 18
19 19
12 13
11 11
10 11
9 9
10 10
9 9
12 12
14 13
18 18
17 18
17 18

Property : MAISONVILLE GRID 2
 Client : GLEN AUDEN

 Date of Survey : 16/3/86
 Operator : RJL
 Electrode Array : POLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-B
 Transmitter : SCINTREX IPC-B
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 650 ms
 Integration Time : 520 ms



R. S. MIDDLETON EXPLORATION SERVICES INC.

IP Pseudosections for N = 1 to 3
 'a' Spacing = 25 M

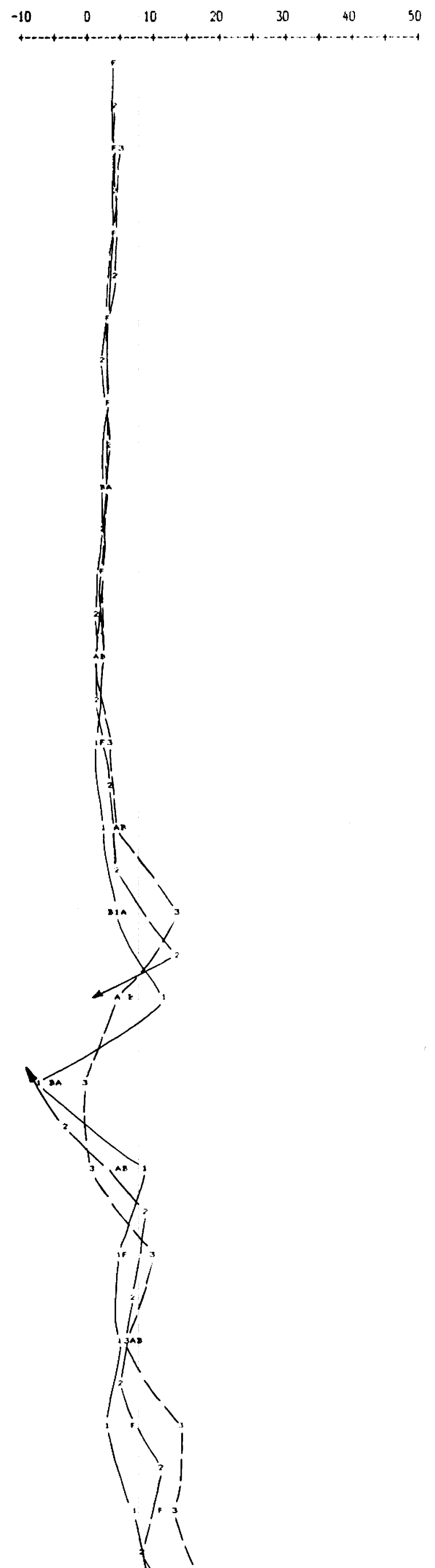
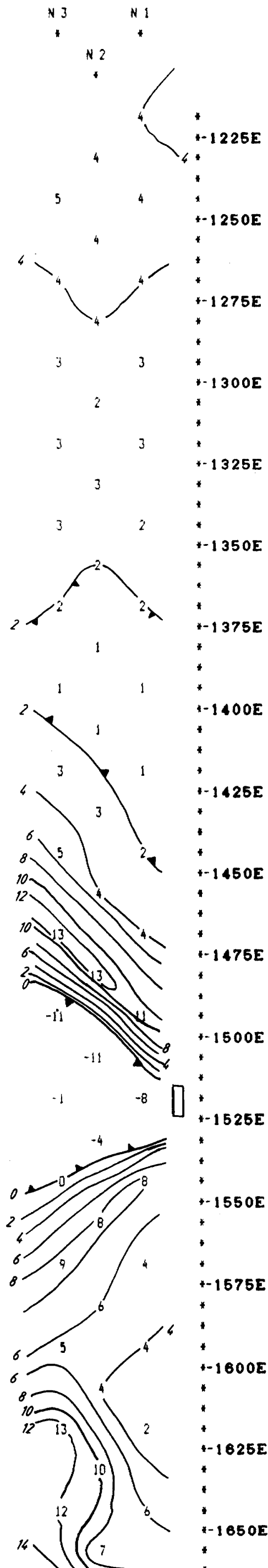
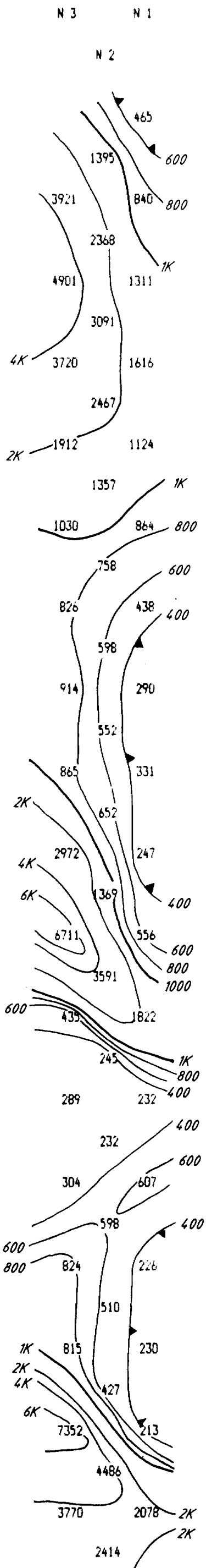
LINE 3360 N

SCALE : 1 : 1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

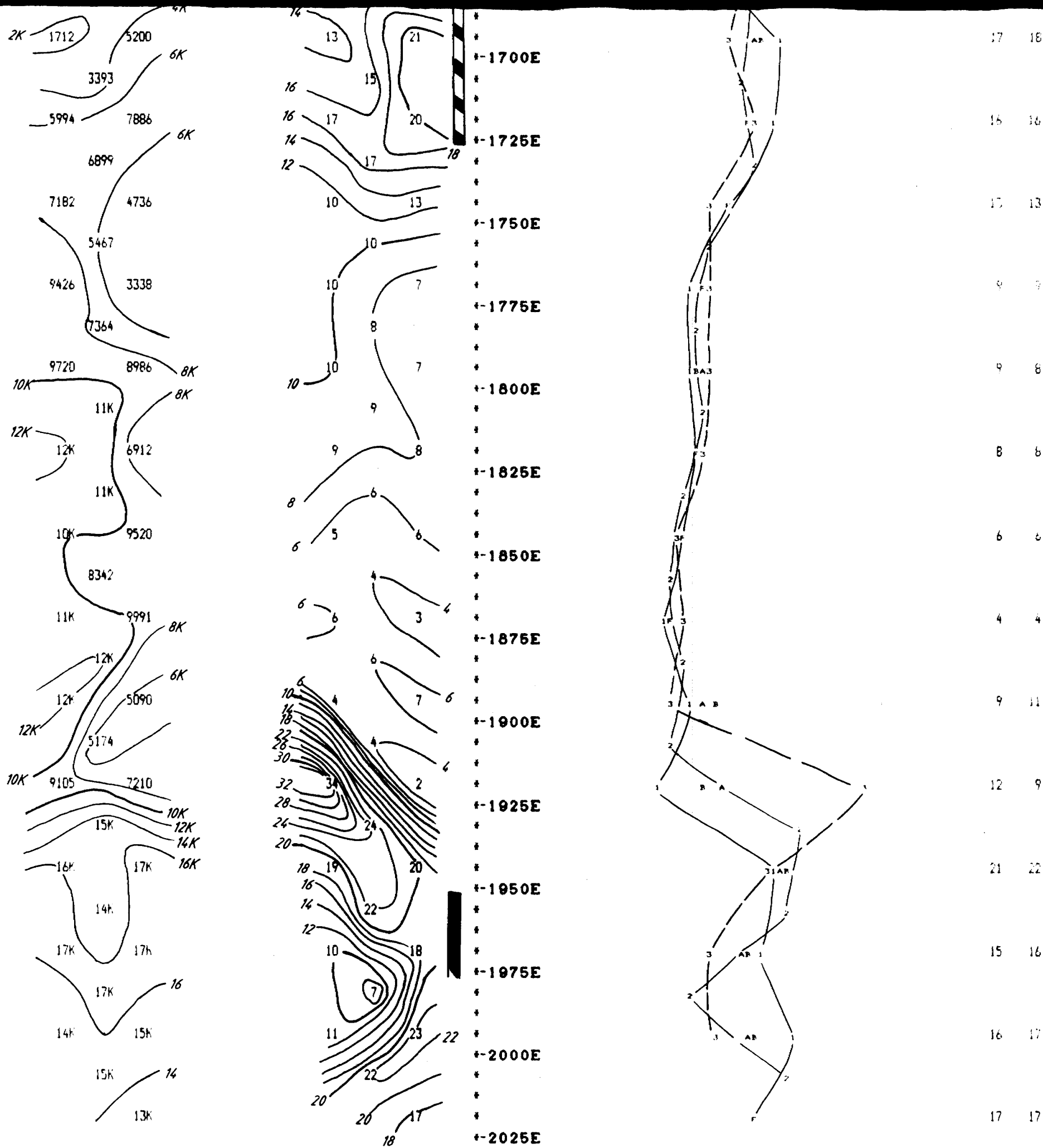
CHARGEABILITY PROFILE



F
R
A
S
E
R

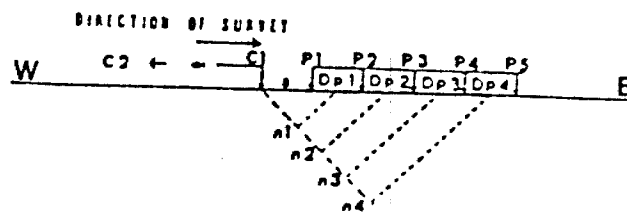
A
I

4
4
4
4
3
3
3
2
2
1
2
2
4
5
5
3
6
6
10
10



Property : MAISONVILLE GRID 2
 Client : GLEN AUDEN

Date of Survey : 15/3/86
 Operator : RJL
 Electrode Array : POLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-B
 Transmitter : SCINTREX IPC-B
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 650 ms
 Integration Time : 520 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 3
 'a' Spacing = 25 M

SCALE : 1 : 1250

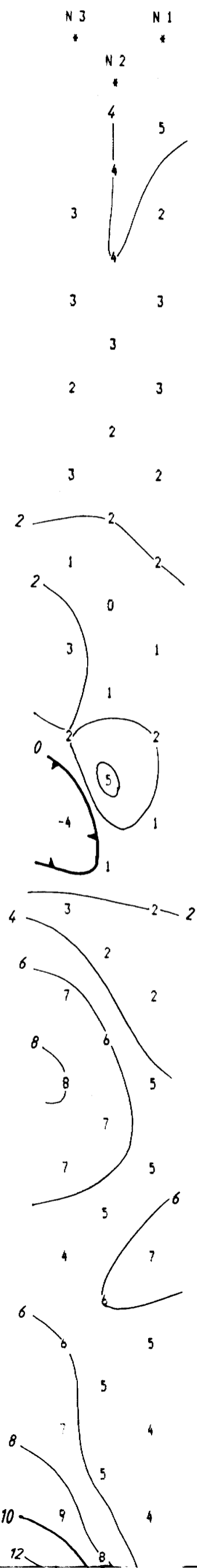
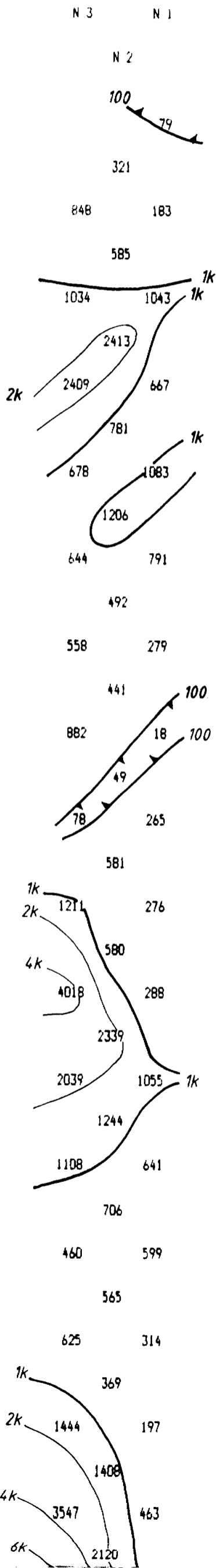
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

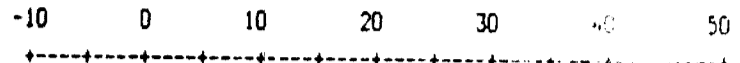
CHARGEABILITY PROFILE

F F
R I
A L
S T
E E
R R

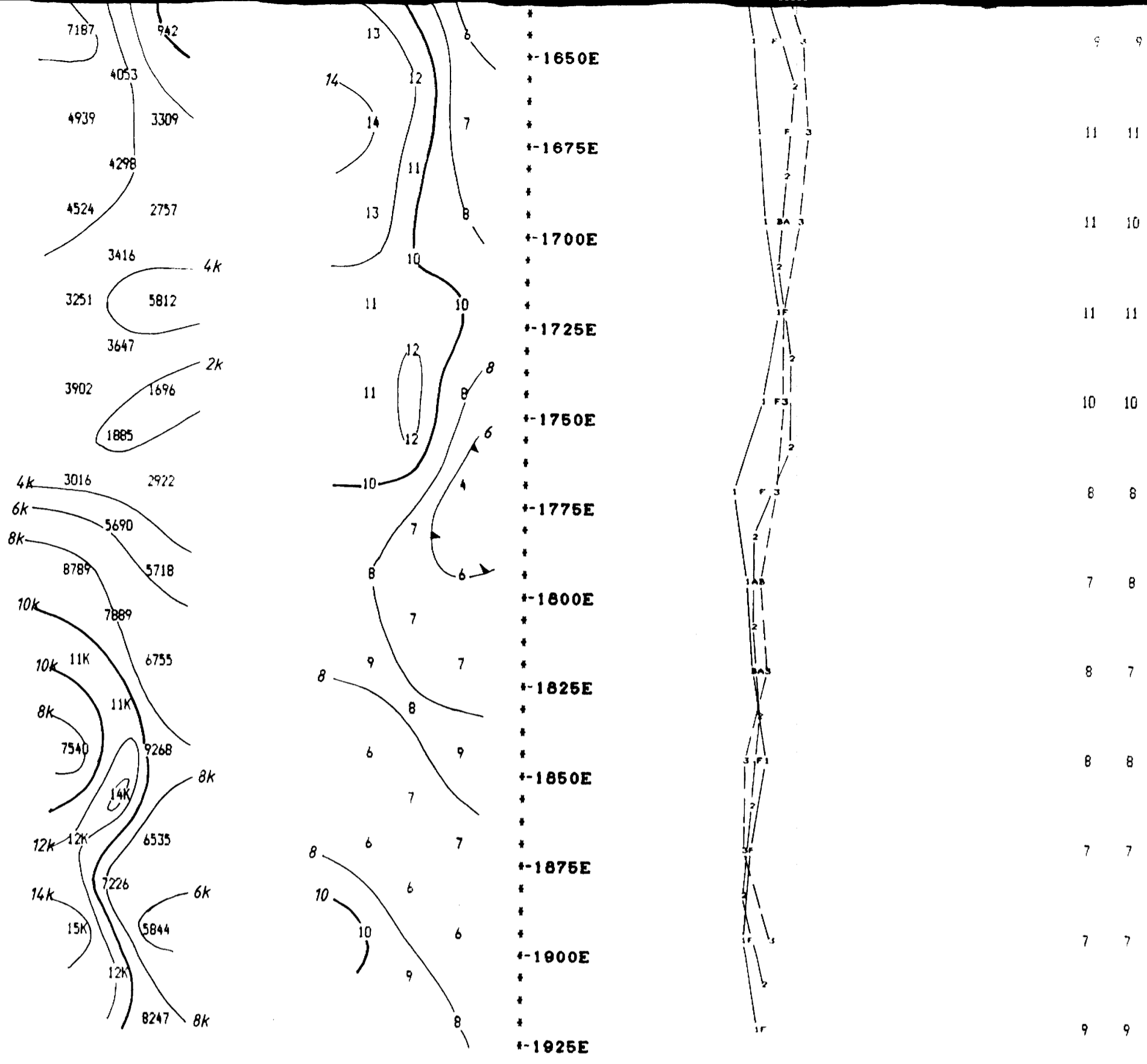
A B



- * ±-1225E
- * ±-1250E
- * ±-1275E
- * ±-1300E
- * ±-1325E
- * ±-1350E
- * ±-1375E
- * ±-1400E
- * ±-1425E
- * ±-1450E
- * ±-1475E
- * ±-1500E
- * ±-1525E
- * ±-1550E
- * ±-1575E
- * ±-1600E
- * ±-1625E

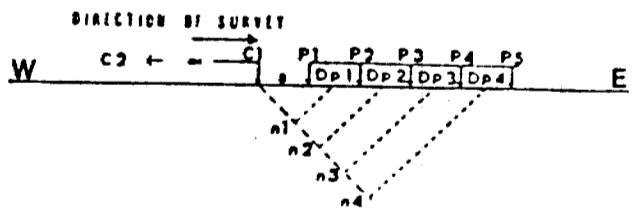


4	4
3	3
3	3
3	3
2	2
2	2
1	1
2	2
1	2
2	2
4	4
6	6
6	6
6	6
6	5
5	6
7	7



Property : MAISONVILLE GRID 2
 Client : GLEN AUDEN

Date of Survey : 14/3/86
 Operator : RJL
 Electrode Array : POLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-8
 Transmitter : SCINTREX IPC-8
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 650 ms
 Integration Time : 520 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

Gregory

IP Pseudosections for N = 1 to 3

'a' Spacing = 25 M

LINE 3460 N

SCALE : 1 : 1250

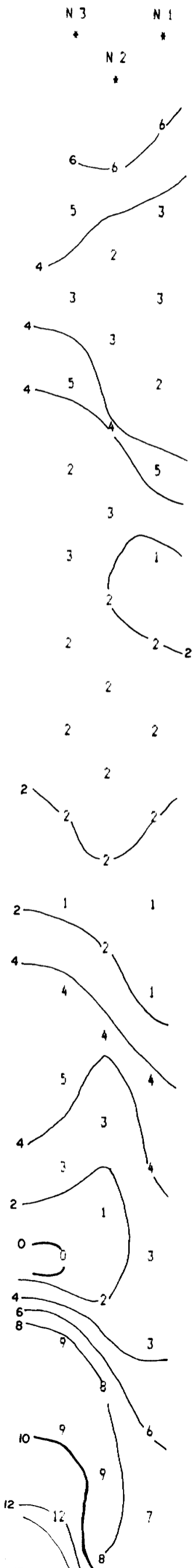
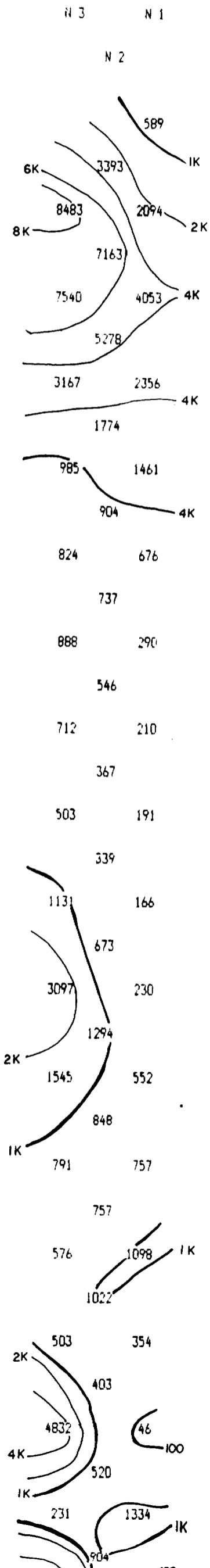
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

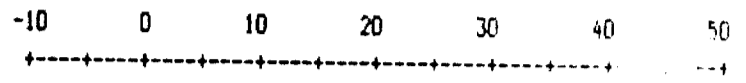
CHARGEABILITY PROFILE

F I L T E R
A S S E R

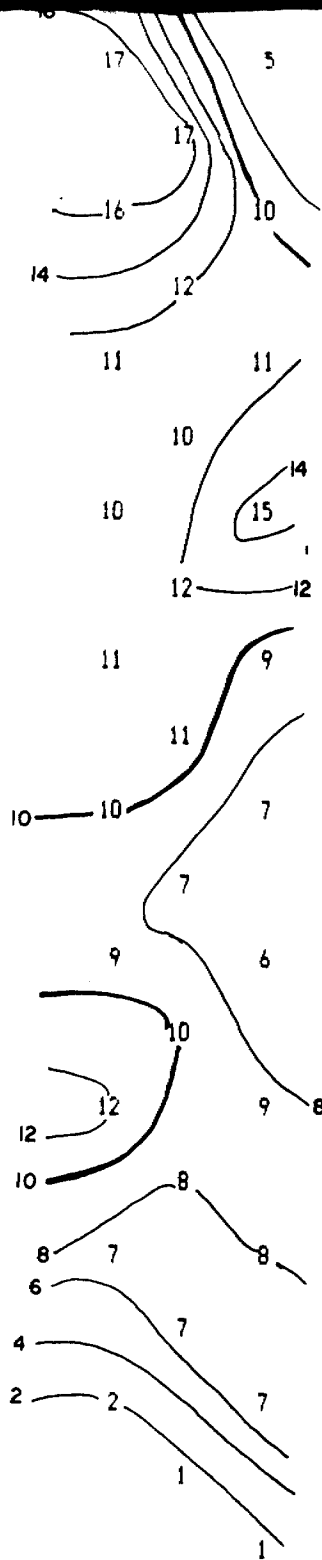
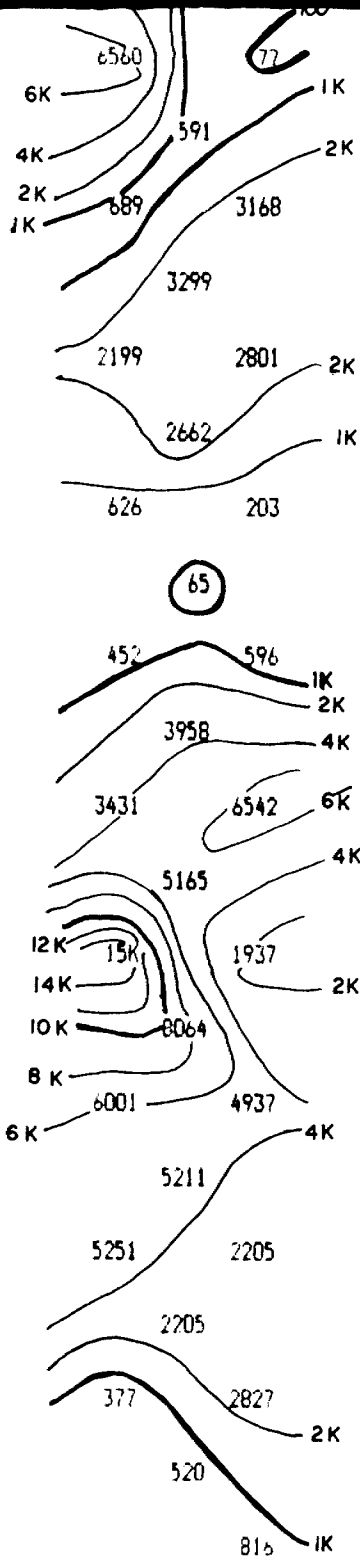
A B



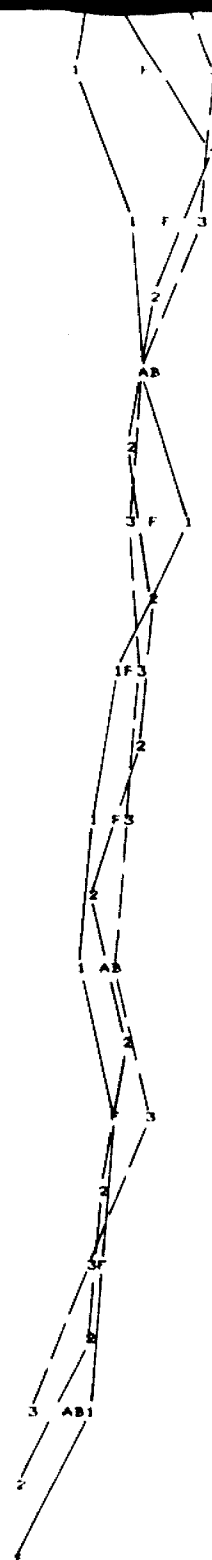
- * -1225E
- * -1250E
- * -1275E
- * -1300E
- * -1325E
- * -1350E
- * -1375E
- * -1400E
- * -1425E
- * -1450E
- * -1475E
- * -1500E
- * -1525E
- * -1550E
- * -1575E
- * -1600E
- * -1625E



Filter	A	B
6	6	6
4	3	4
3	4	3
3	3	3
4	4	4
2	2	2
2	2	2
2	2	2
2	2	2
4	4	4
3	3	3
3	4	3
5	4	5
8	8	8
10	10	10



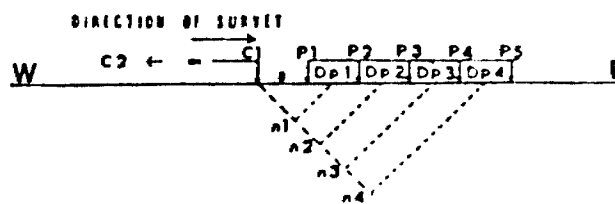
*
 * -1850E
 *
 * -1675E
 *
 * -1700E
 *
 * -1725E
 *
 * -1750E
 *
 * -1775E
 *
 * -1800E
 *
 * -1825E
 *
 * -1850E
 *
 * -1875E
 *
 * -1900E



11 11
 13 13
 11 12
 12 12
 10 10
 9 9
 8 9
 9 9
 8 8
 5 6
 1 1

Property : MAISONVILLE GRID 2
 Client : GLEN AUDEN

Date of Survey : 13/3/86
 Operator : RJL
 Electrode Array : POLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-8
 Transmitter : SCINTREX IPC-8
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 650 ms
 Integration Time : 520 ms



Greg Holgate

 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 3

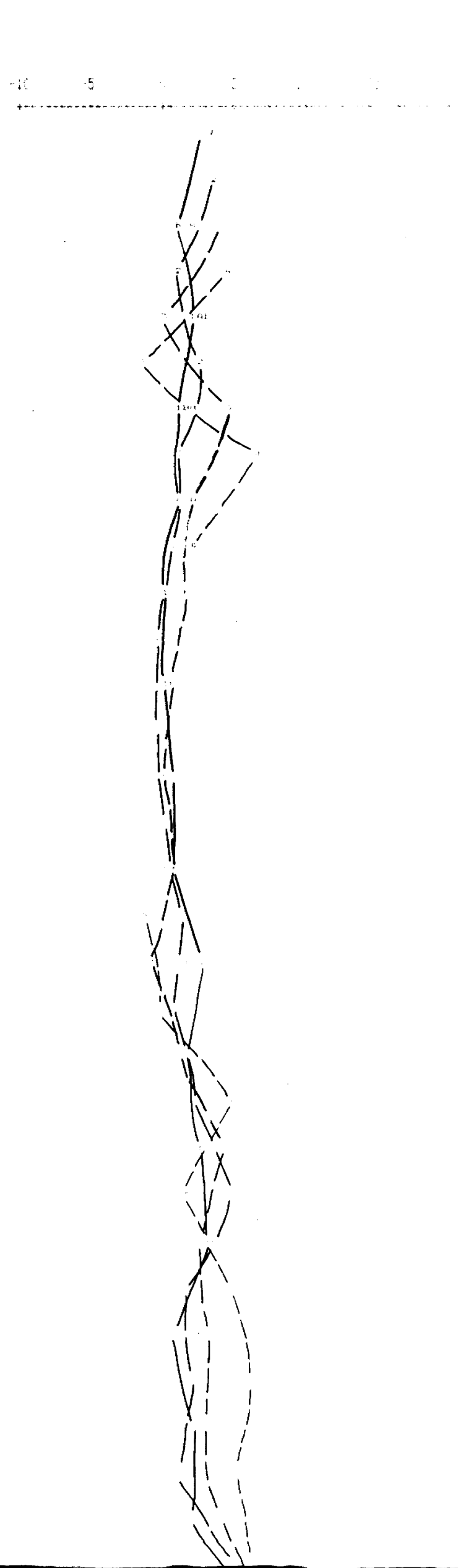
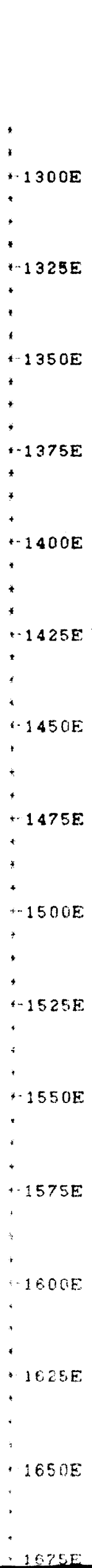
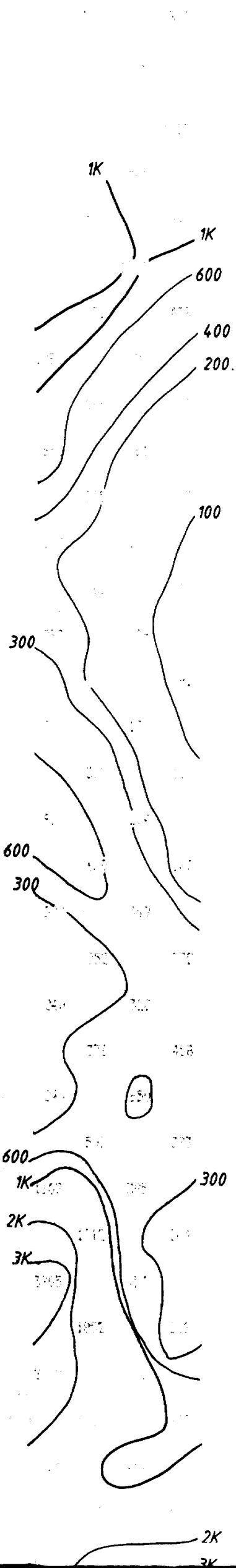
'a' Spacing = 25 M

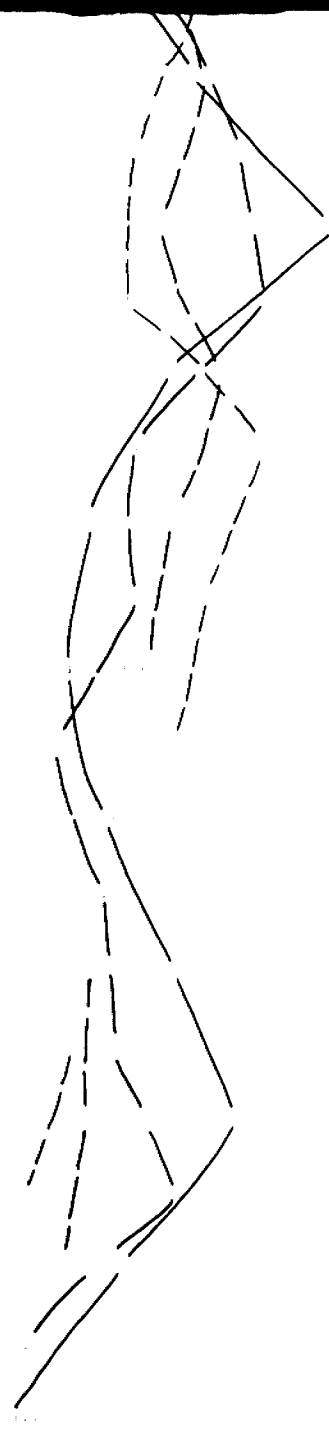
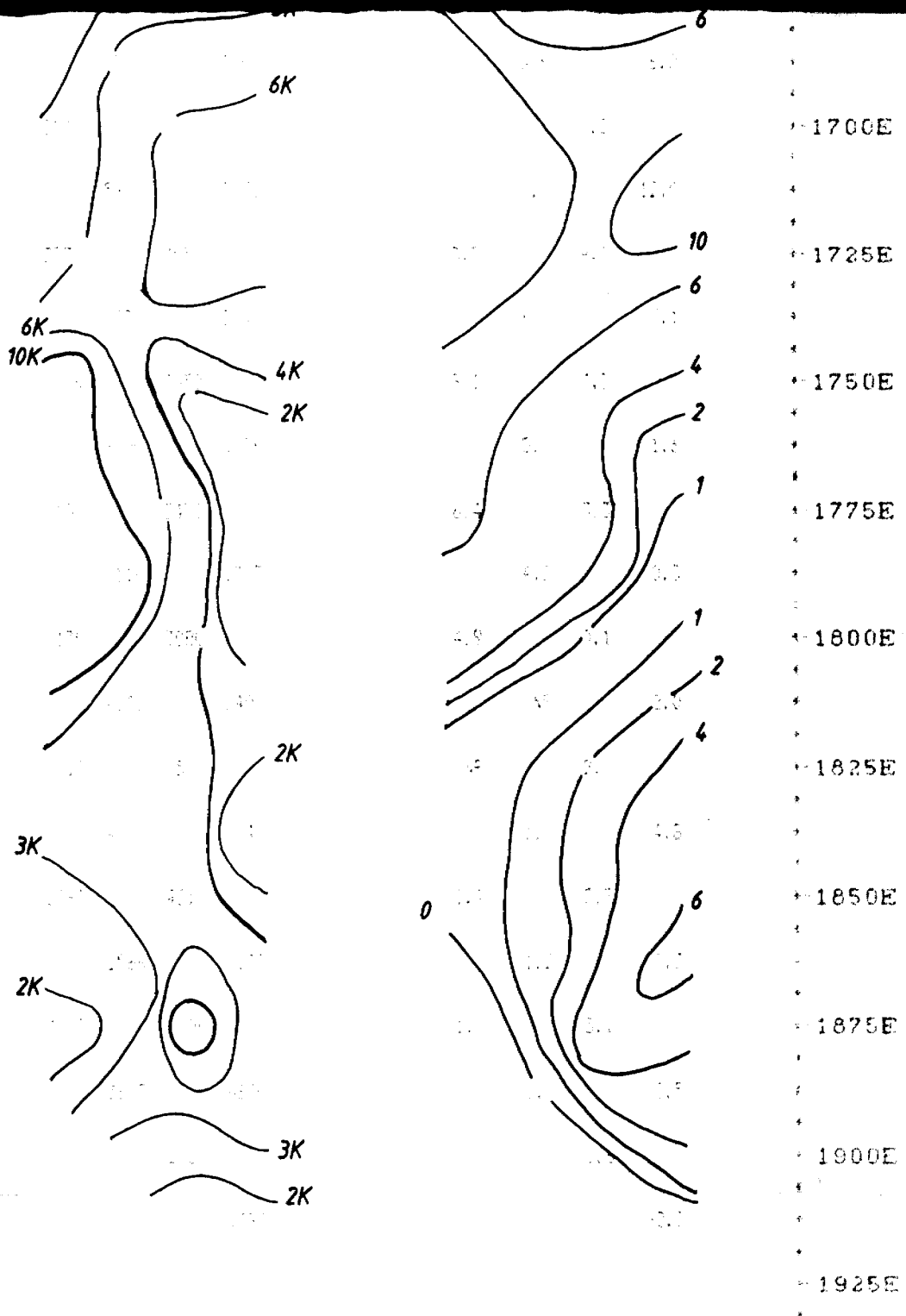
LINE 3510 N

RESISTIVITY
(1000 ohm-ft)

CHARACTERISTICS
(MULTI-PERIODS)

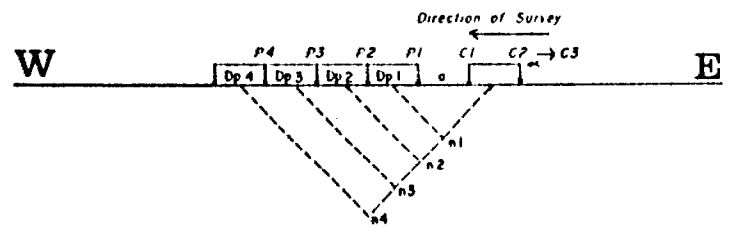
CHARACTERISTICS





Property : MAISONVILLE IWP. GRID 2
 Client : GLEN AUDEN RESOURCES

Date of Survey : 27/8/86
 Operator : JMM
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX TDR-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 350 ms
 Integration Time : 200 ms



Gary Hodges

 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4
 a) Spacing = 25 M
 LINE 3510 N

SCALE : 1 : 1250

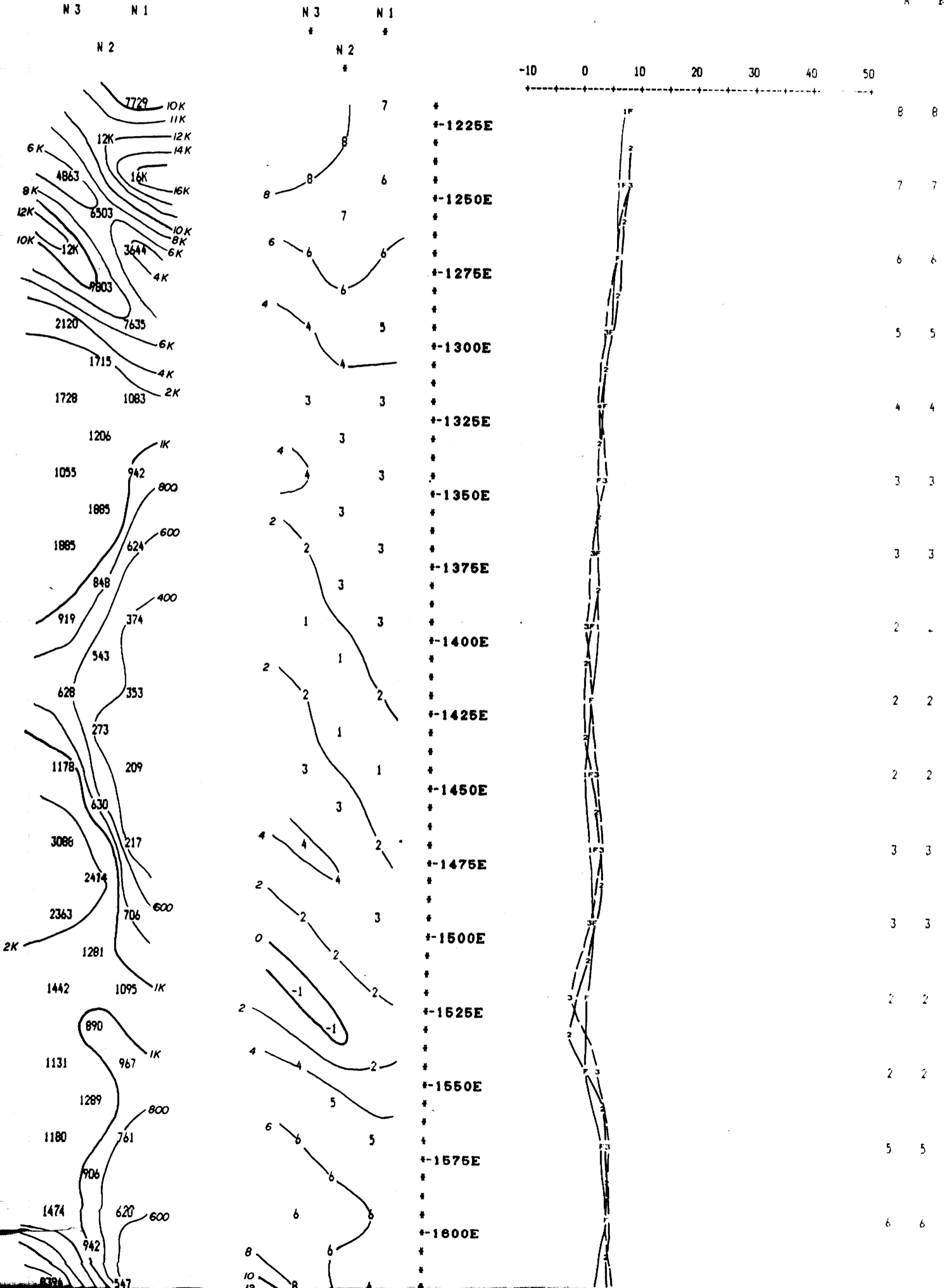
RESISTIVITY
(ohm - metres)

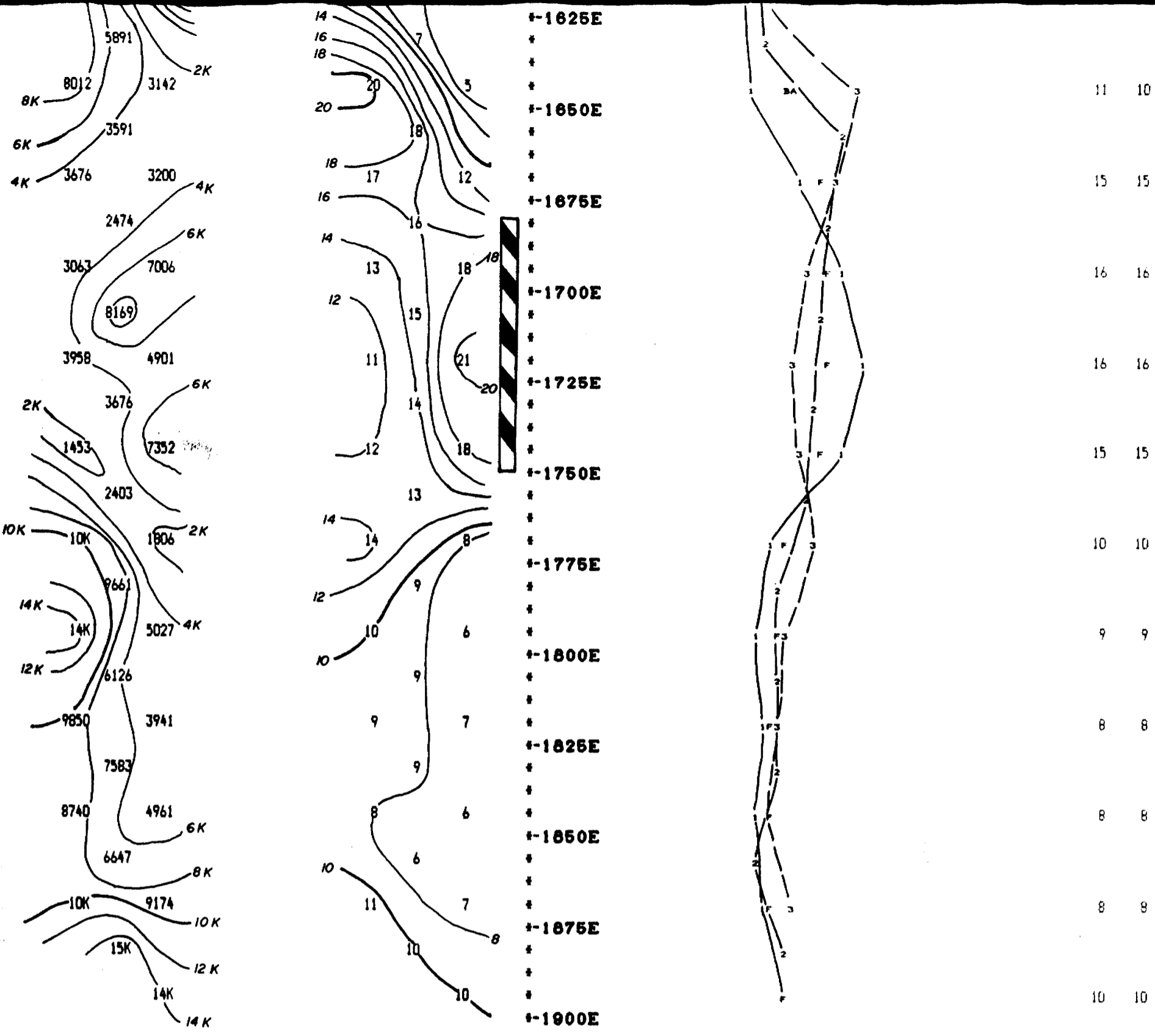
CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

F I
R I
A L
S T
E R
R

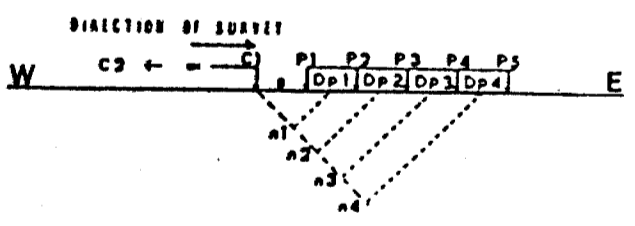
A B





Property : MAISONVILLE GRID 2
 Client : GLEN AUDEN

 Date of Survey : 9/3/86
 Operator : RJL
 Electrode Array : POLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-8
 Transmitter : SCINTREX IPC-8
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 650 ms
 Integration Time : 520 ms



 R. B. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 3

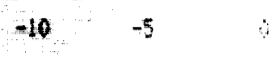
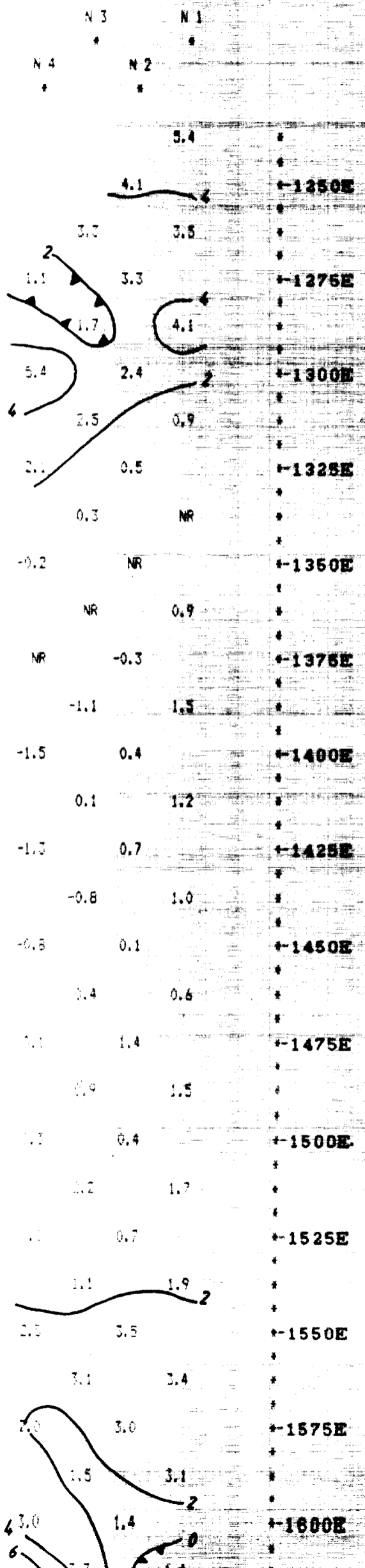
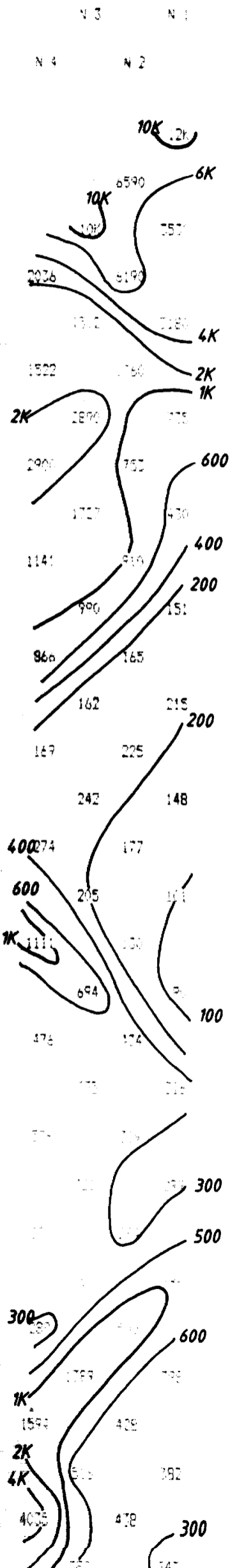
'a' Spacing = 25 M

LINE 3560 N

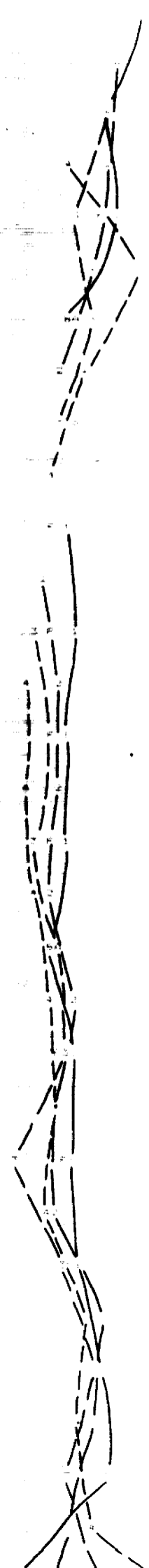
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY



- * 1250E
- * 1275E
- * 1300E
- * 1325E
- * 1350E
- * 1375E
- * 1400E
- * 1425E
- * 1450E
- * 1475E
- * 1500E
- * 1525E
- * 1550E
- * 1575E
- * 1600E

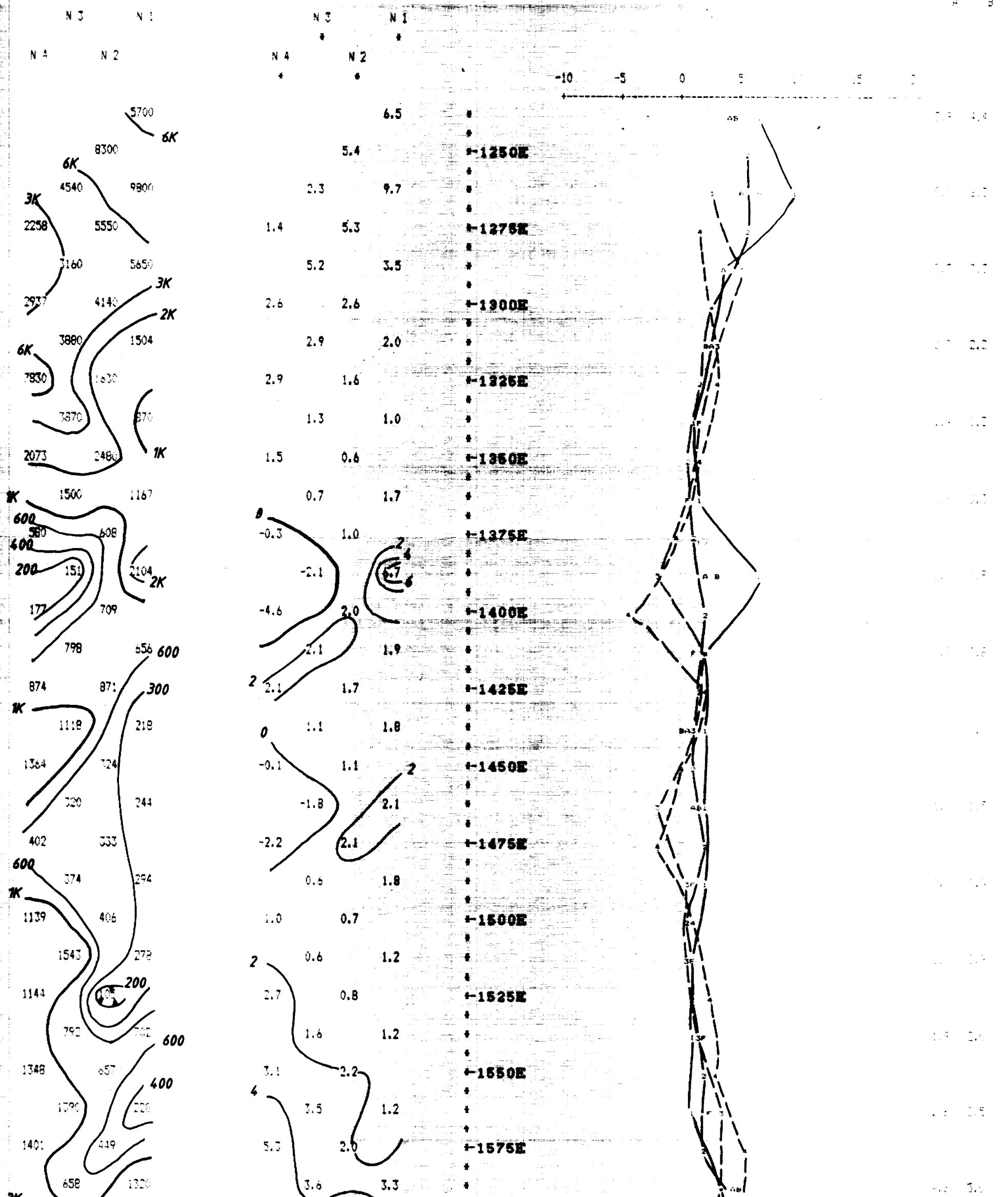


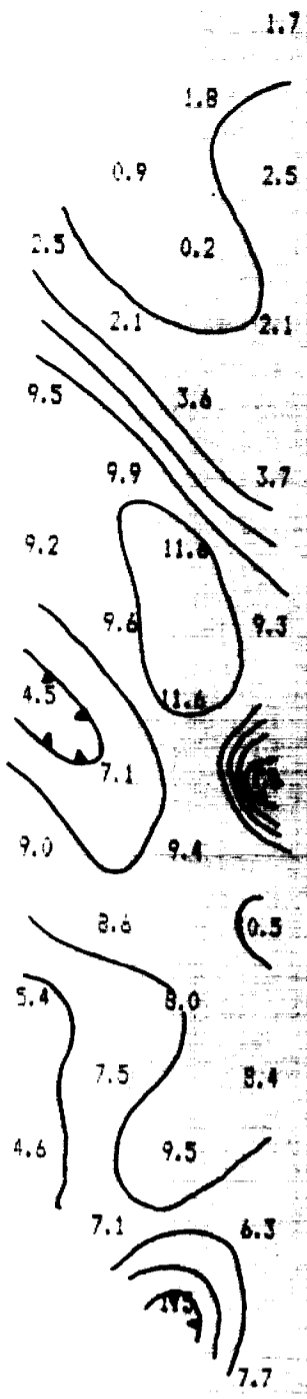
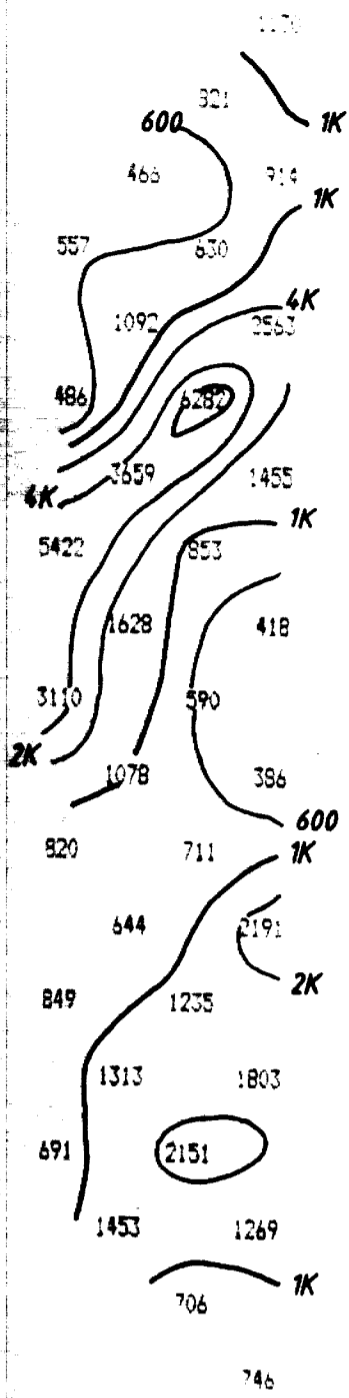
SCALE : 1 : 1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE





-2125E
 -2150E
 -2175E
 -2200E
 -2225E
 -2250E
 -2275E
 -2300E
 -2325E
 -2350E
 -2375E



Property : MAISONVILLE TWP. GRD 2
 Client : GLEN AUDEN RESOURCES

Date of Survey : 25/8/86
 Operator : DJM
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX TSQ-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms



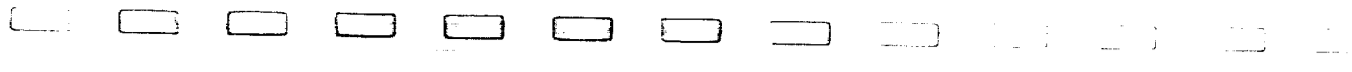
 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4

's' Spacing = 25 M

LINE

3K 5700



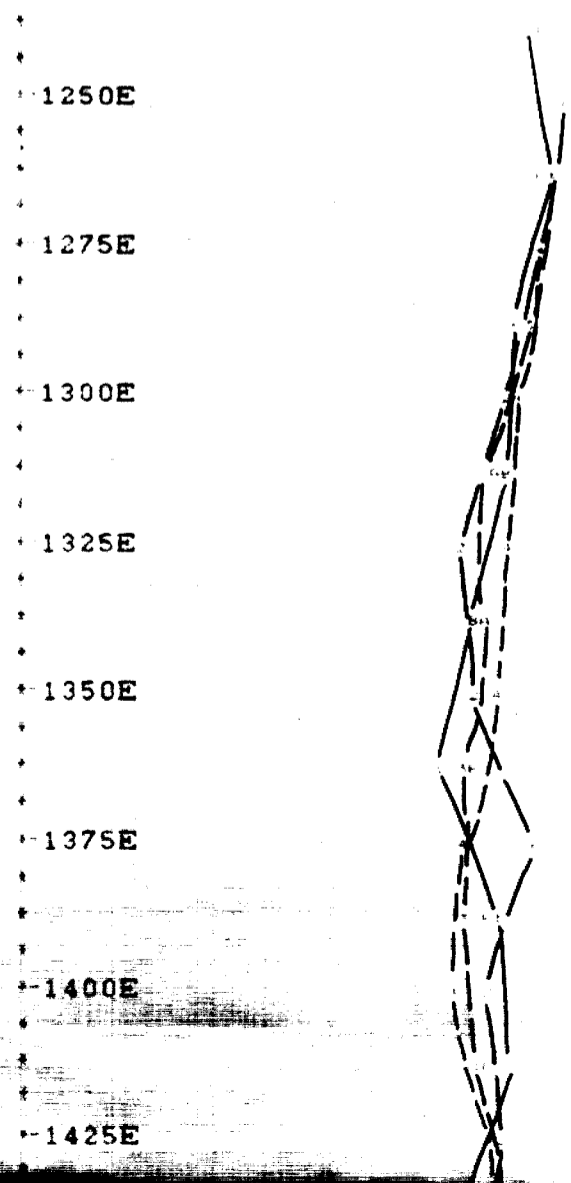
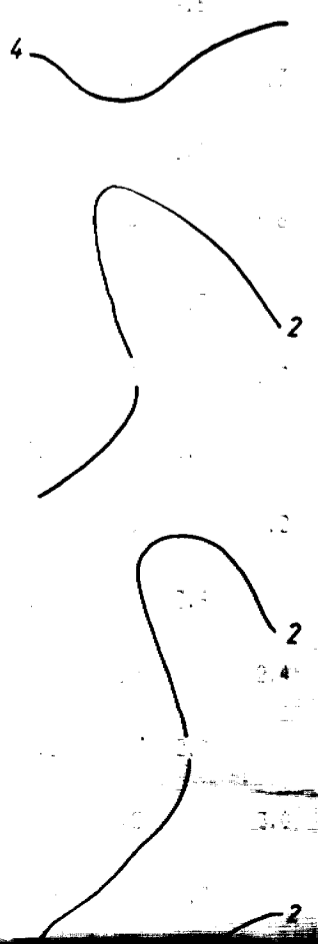
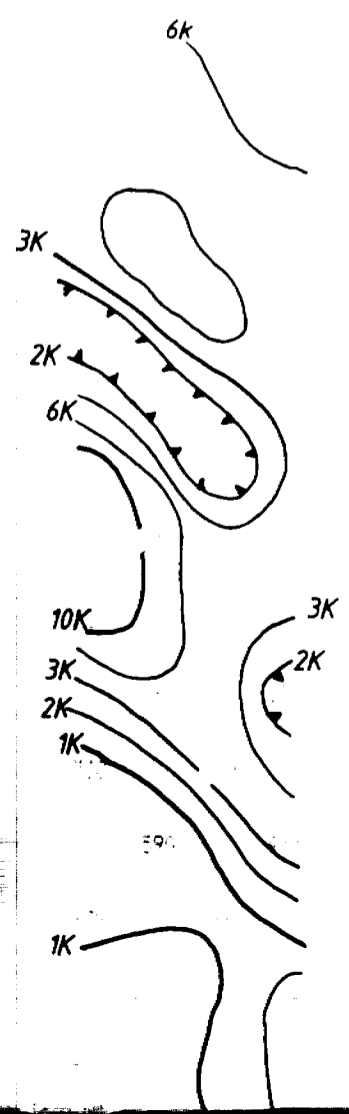
7

10 20 30 40 50 60 70 80 90 100

CHARACTERISTICS

10
20
30
40
50
60
70
80
90
100

-10 -5 0 5 10



10 11
12 13
14 15
16 17
18 19
20 21
22 23
24 25
26 27
28 29
30 31
32 33
34 35
36 37
38 39
40 41
42 43
44 45
46 47
48 49
50 51
52 53
54 55
56 57
58 59
60 61
62 63
64 65
66 67
68 69
70 71
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84 85
86 87
88 89
90 91
92 93
94 95
96 97
98 99
100 101

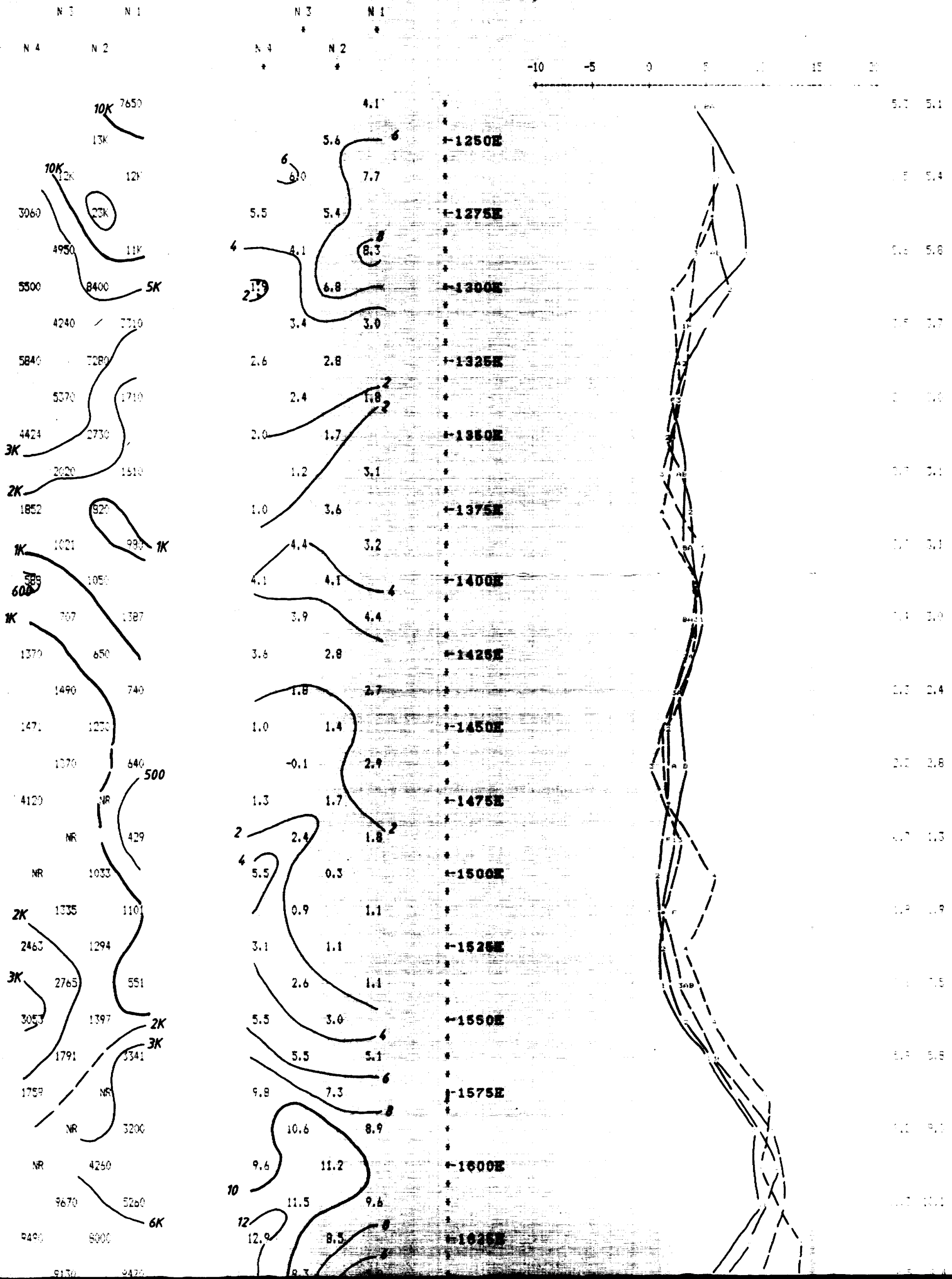
SCALE : 1 : 1250

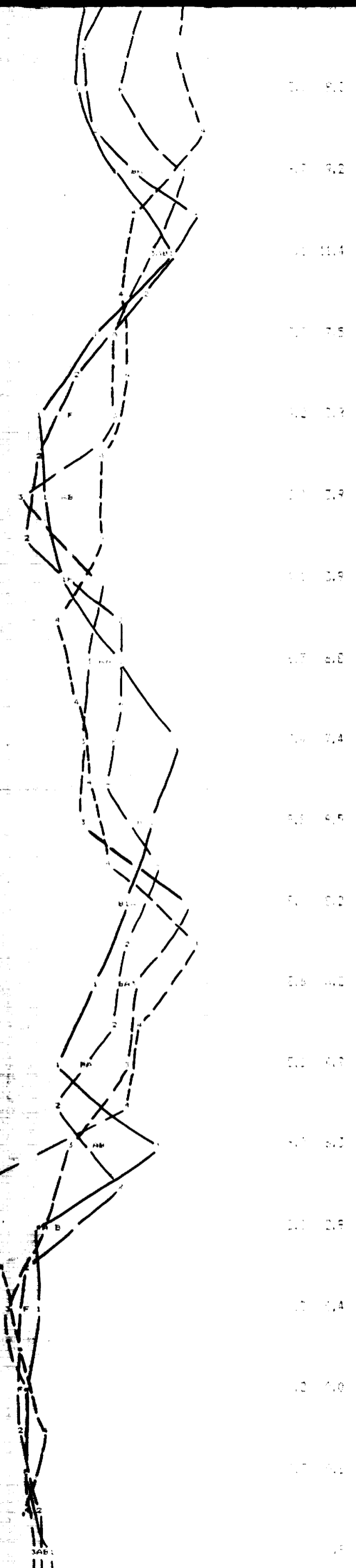
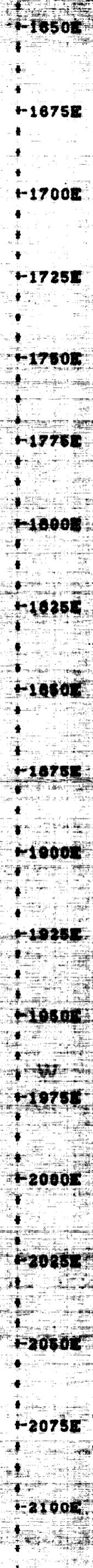
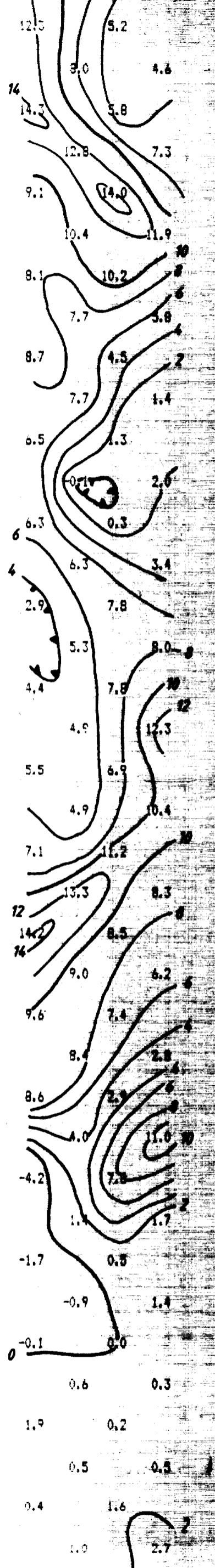
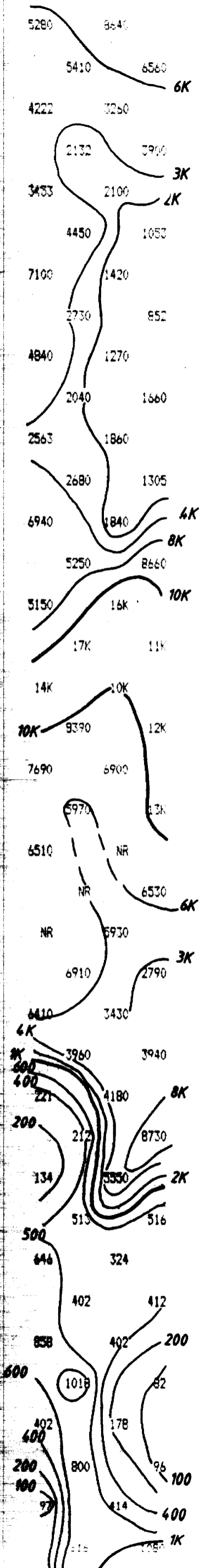
RESISTIVITY
(ohm - metres)

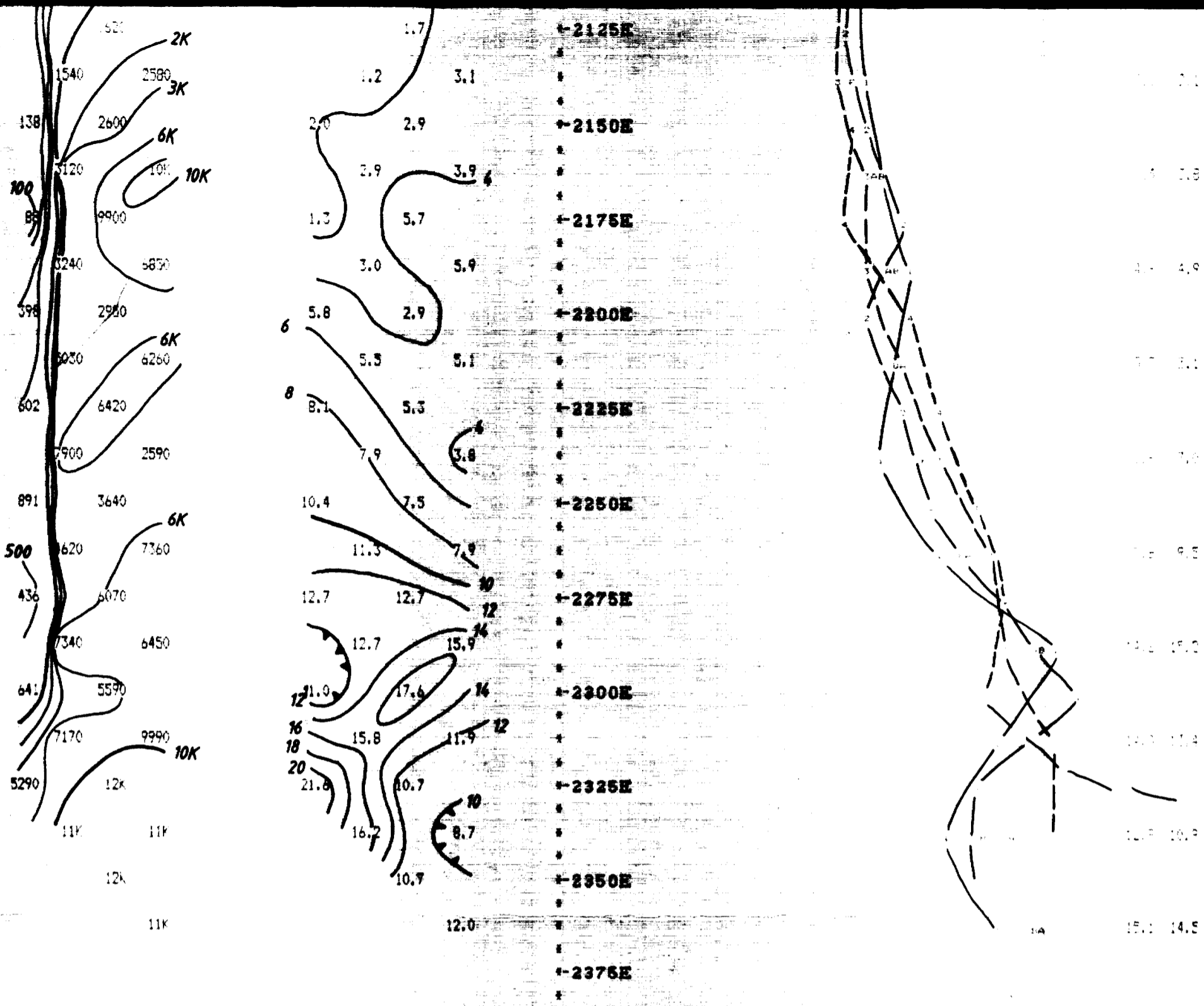
CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

DEPTH
METER







Property : MAISONVILLE TWP. GRID 2

Client : GLEN AUDEN RESOURCES

Date of Survey : 24/8/86

Operator : DJM

Electrode Array : DIPOLE - DIPOLE

Mode : TIME DOMAIN

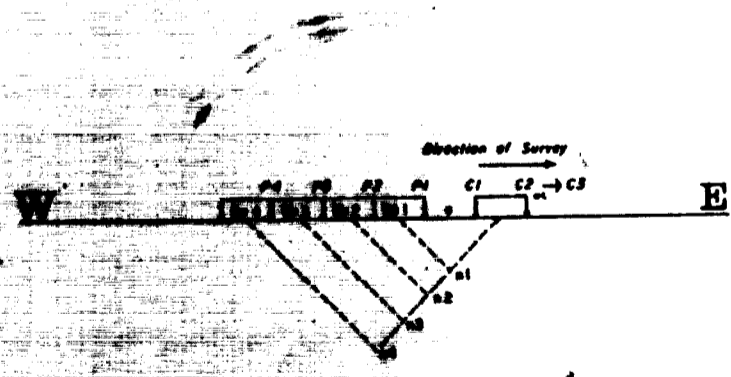
Receiver : SCINTREX IFR-11

Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Delay Time : 360 ms

Integration Time : 780 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 3710 N

SCALE : 1 : 1250

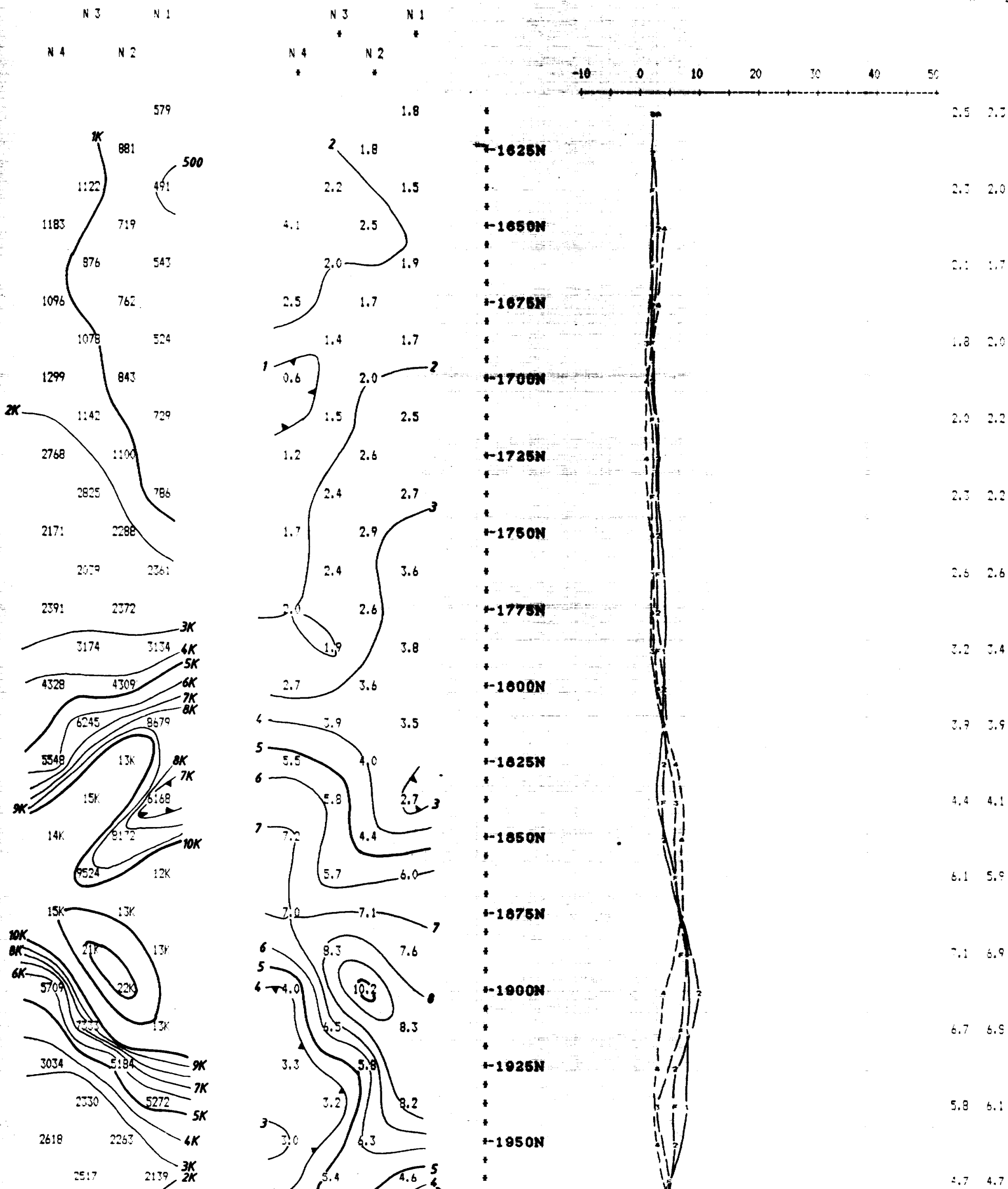
RESISTIVITY
(ohm - metres)

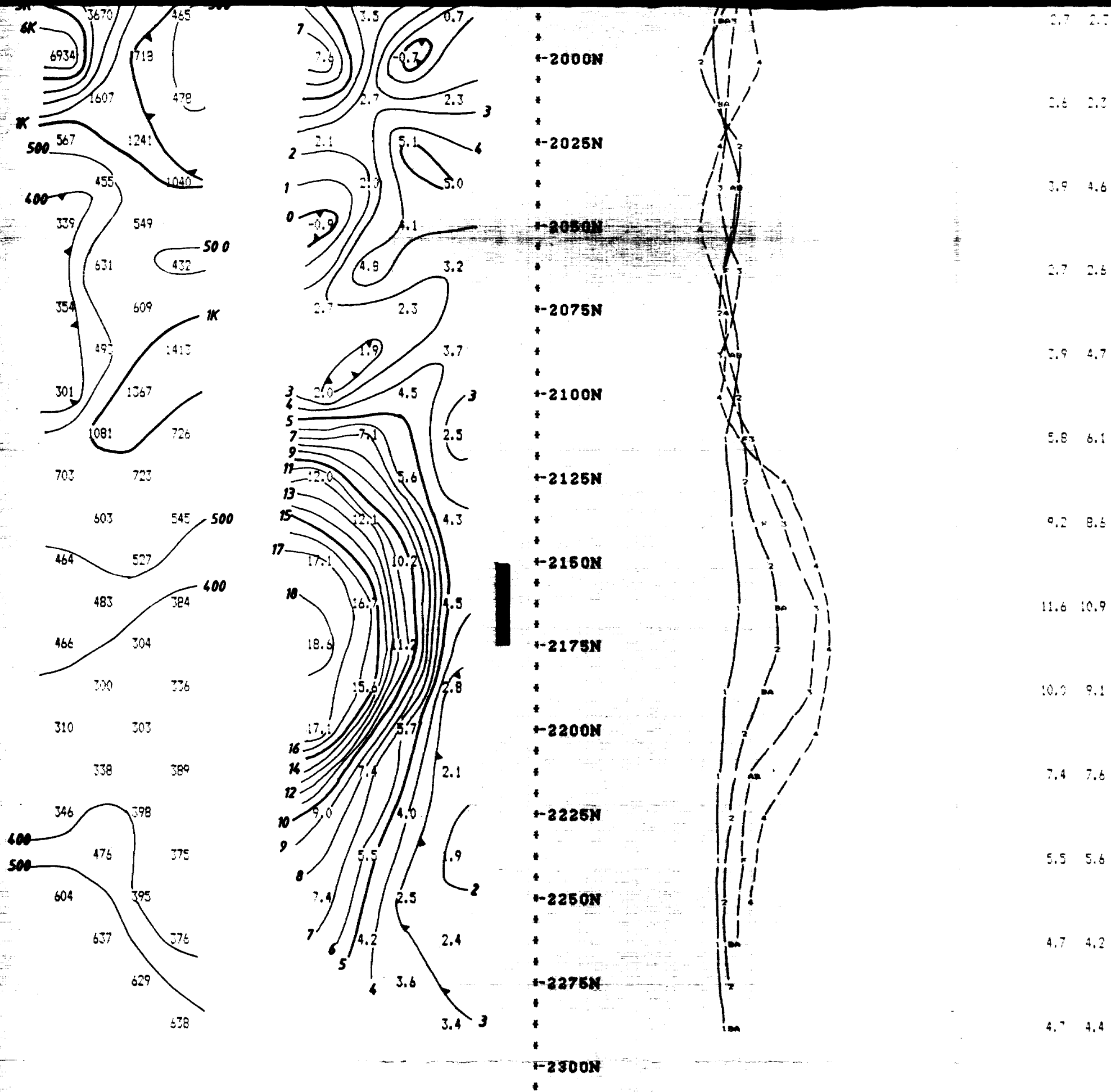
CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

S
P
I
T
E
R

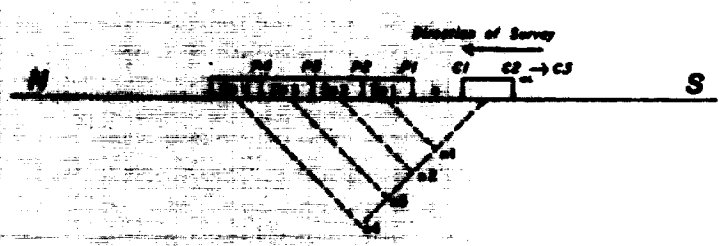
A B





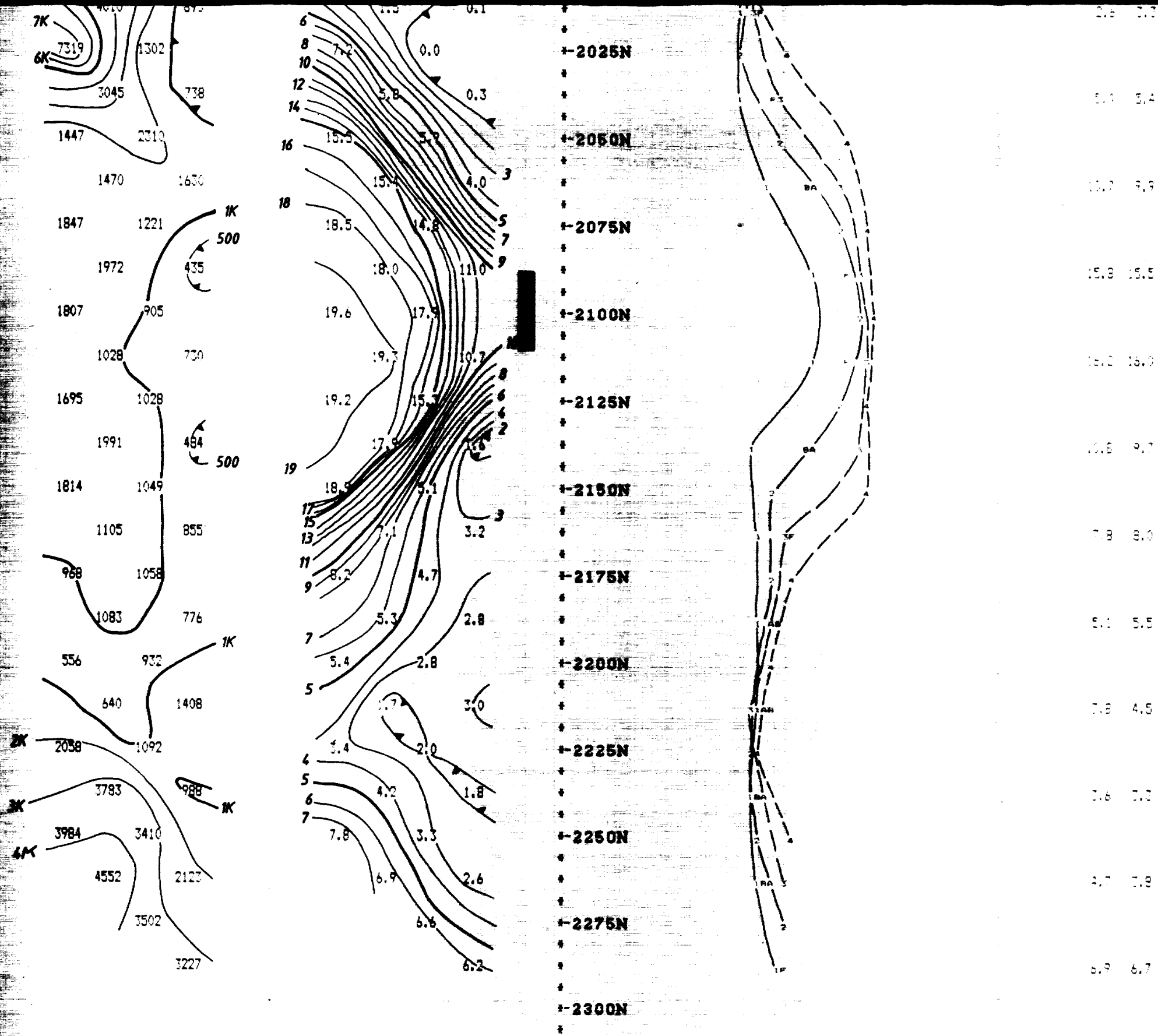
Property : MAISONVILLE GRID 3
 Client : GLEN AUDEN RESOURCES LTD.

Date of Survey : 6/6/86
 Operator : CDJ
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX TSQ-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms
 Slice # 7 Plotted



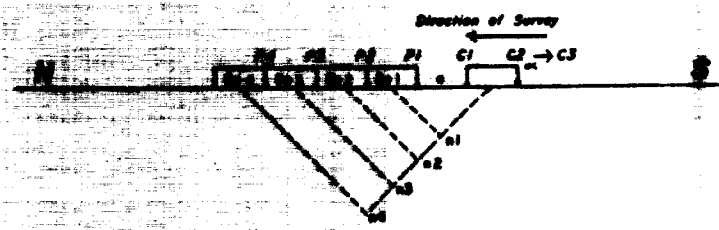
 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4
 'a' Spacing = 25 M



Property : MAISONVILLE GRID 3
 Client : GLEN AUDEN RESOURCES LTD.

Date of Survey : 5/6/86
 Operator : CDJ
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX TSQ-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms
 Slice # 7 Plotted



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4
 'a' Spacing = 25 M

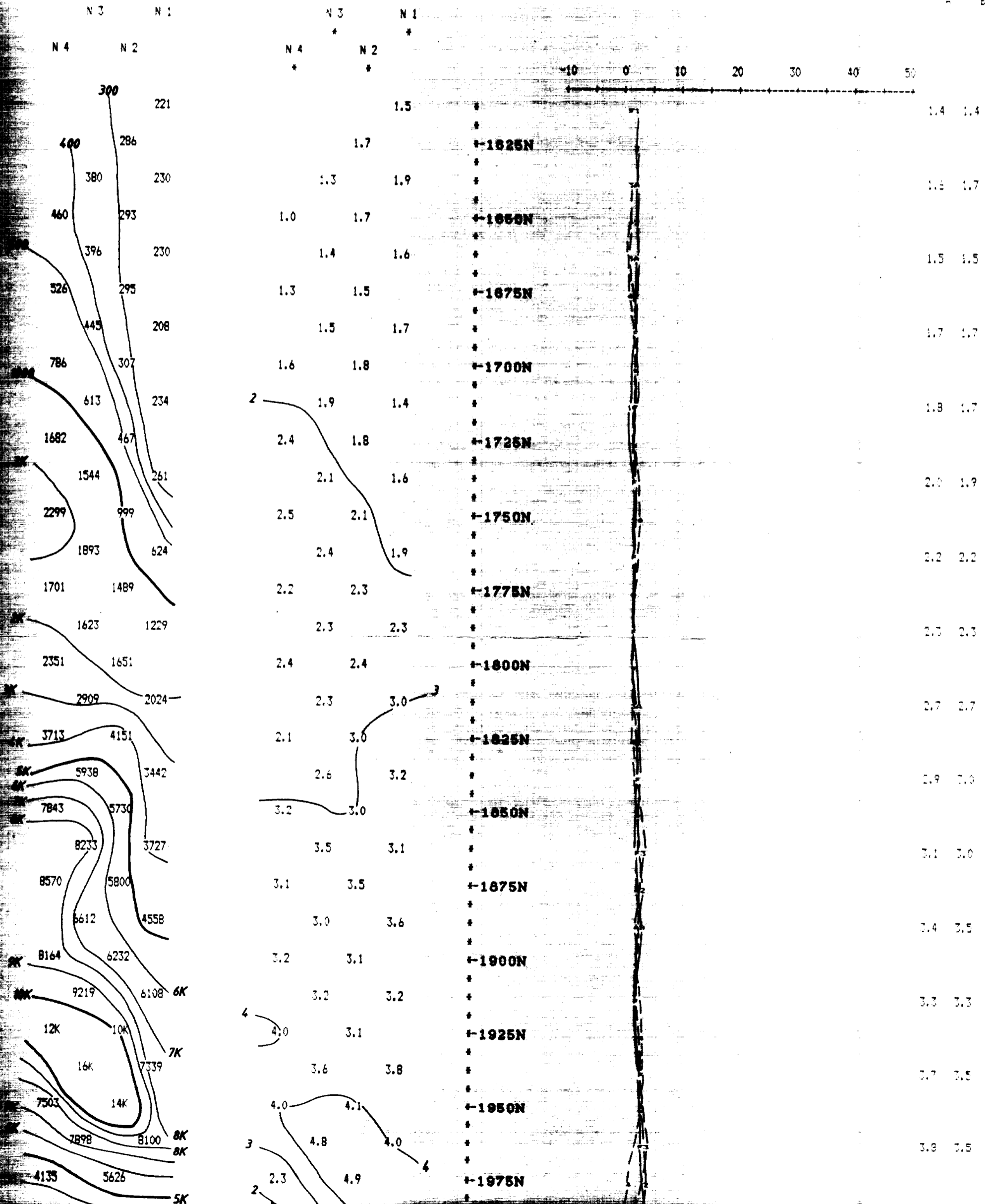
LINE 3300 E

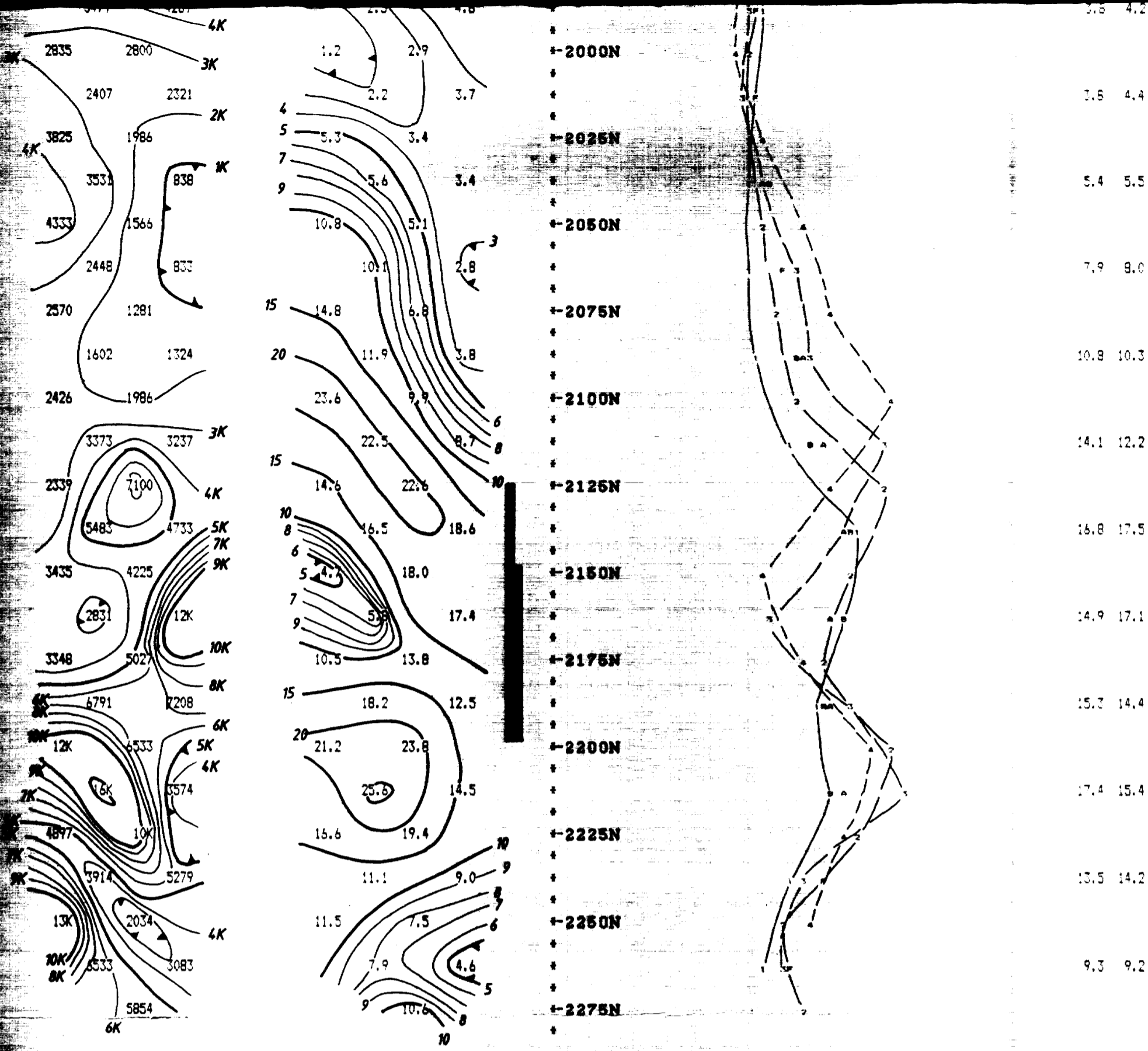
SCALE : 1 : 1250

RESISTIVITY
(ohm - metres)

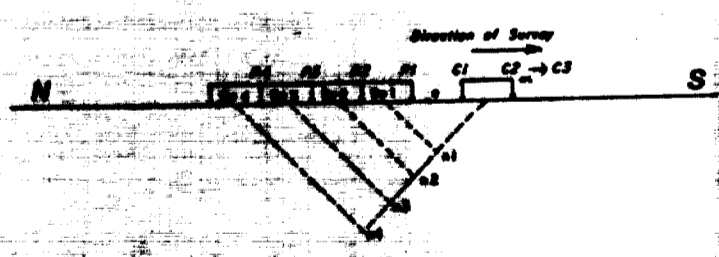
CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE





Property : MAISONVILLE GRID 3
 Client : GLEN AUDEN RESOURCES LTD.
 Date of Survey : 5/6/86
 Operator : CDJ
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX TSQ-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms
 Slice # 7 Plotted



Handwritten signature

 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

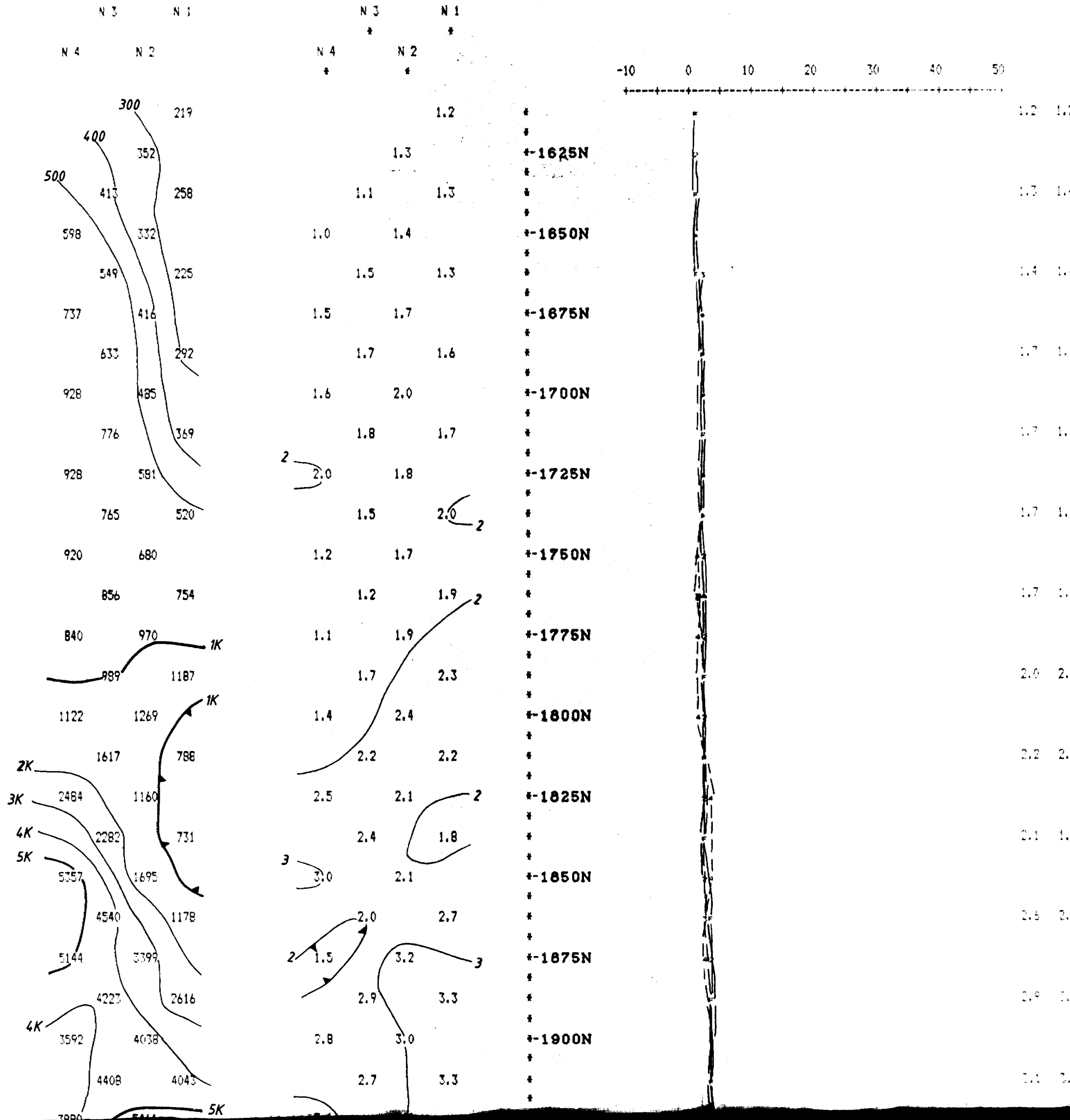
LINE 3250 E

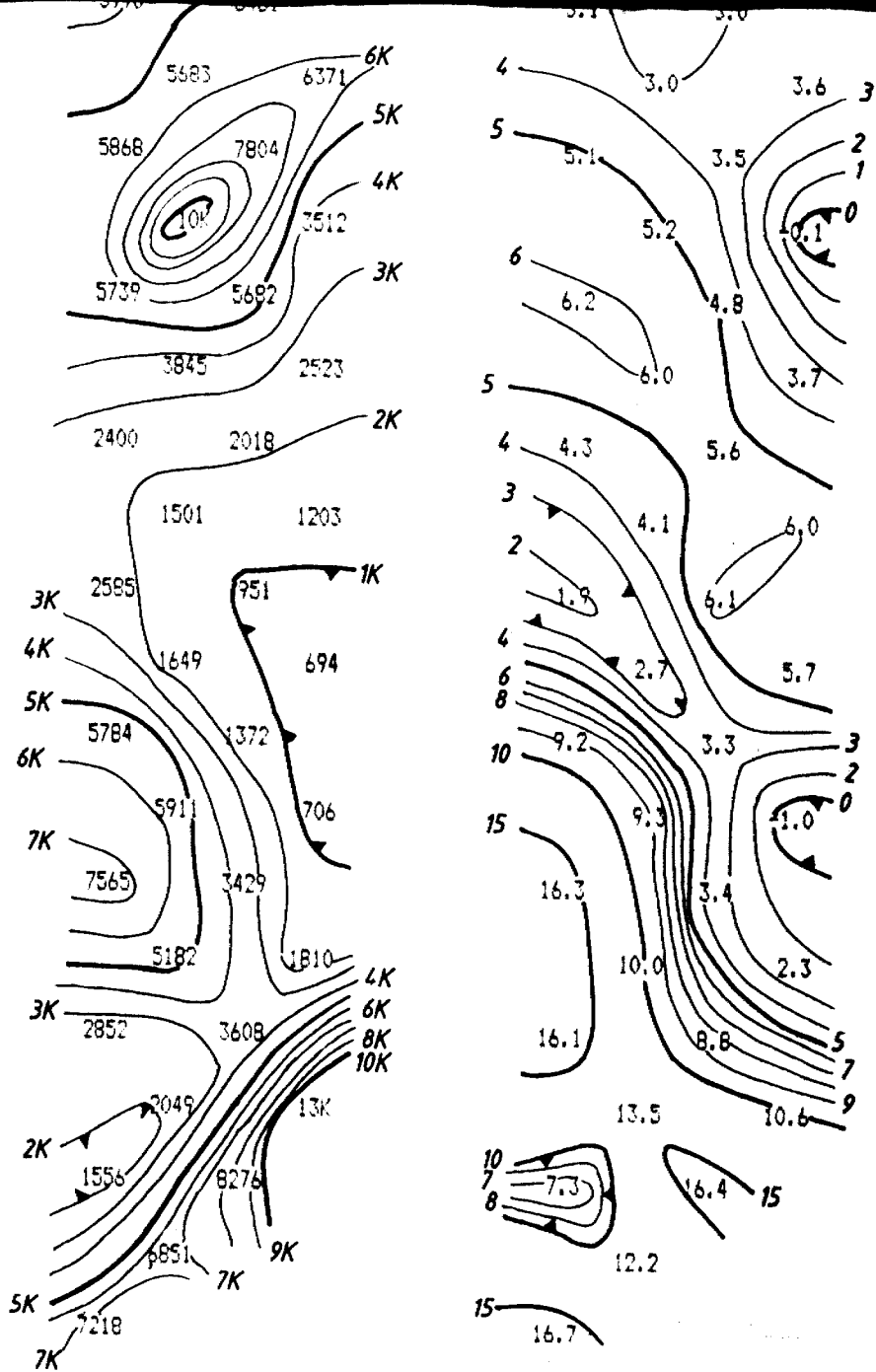
SCALE : 1 : 1250

RESISTIVITY
(ohm - metres)

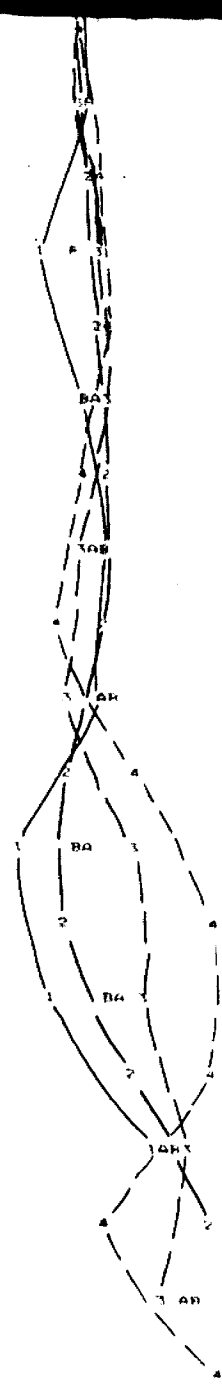
CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE





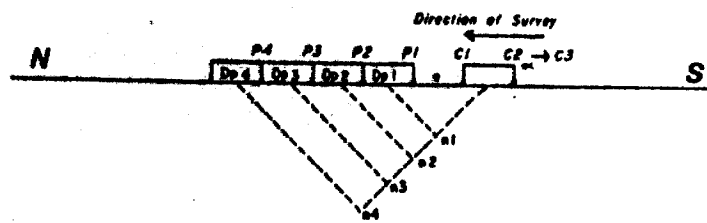
* -1925N
 *
 * -1950N
 *
 * -1975N
 *
 * -2000N
 *
 * -2025N
 *
 * -2050N
 *
 * -2075N
 *
 * -2100N
 *
 * -2125N
 *
 * -2150N
 *



3.7 3.8
 3.4 3.1
 4.6 4.3
 5.4 6.0
 5.9 6.9
 5.2 4.4
 7.9 7.0
 12.5 12.7
 14.2 15.3

Property : MAISONVILLE GRID 3
 Client : GLEN AUDEN RESOURCES LTD.

Date of Survey : 4/6/86
 Operator : CDJ
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX TSQ-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms
 Slice # 7 Plotted



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4
 'a' Spacing = 25 M

LINE 3220 E

SCALE : 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

F
R
A
S
E
R

SCALE : 1:1250

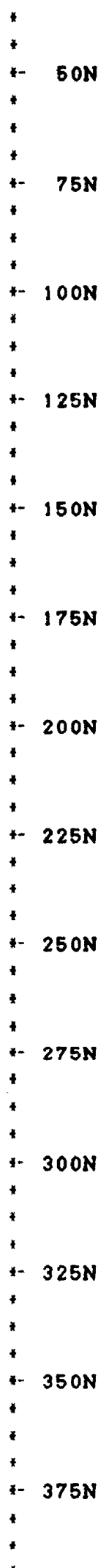
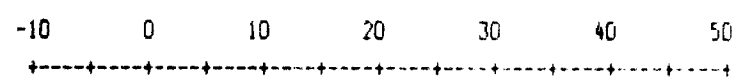
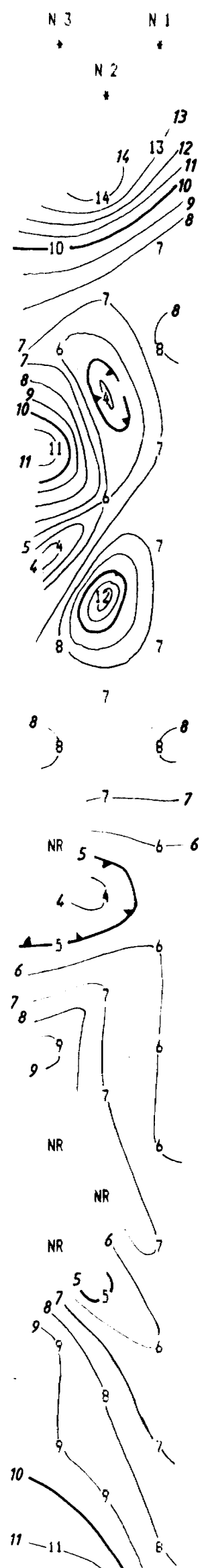
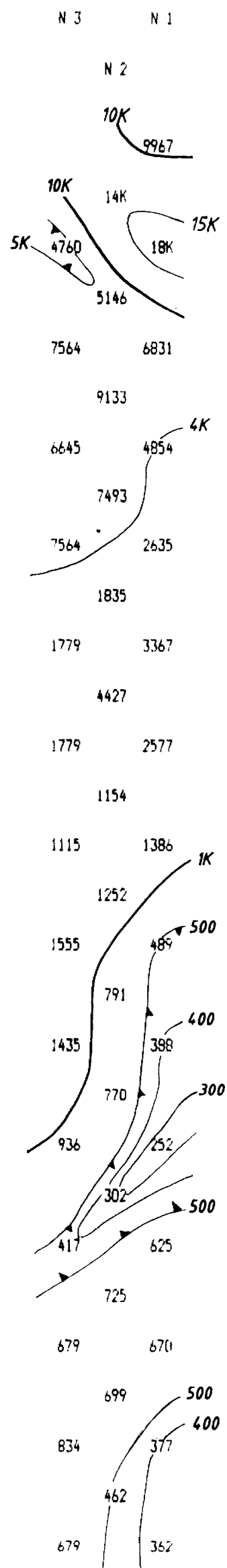
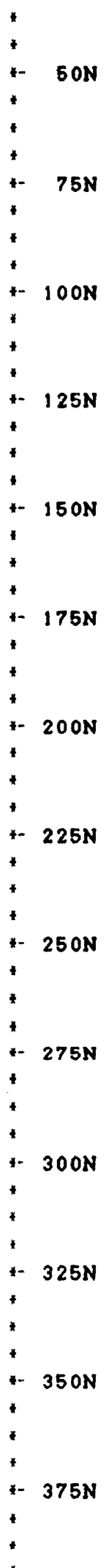
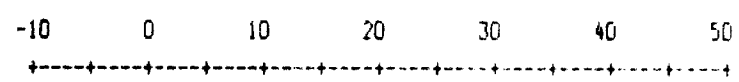
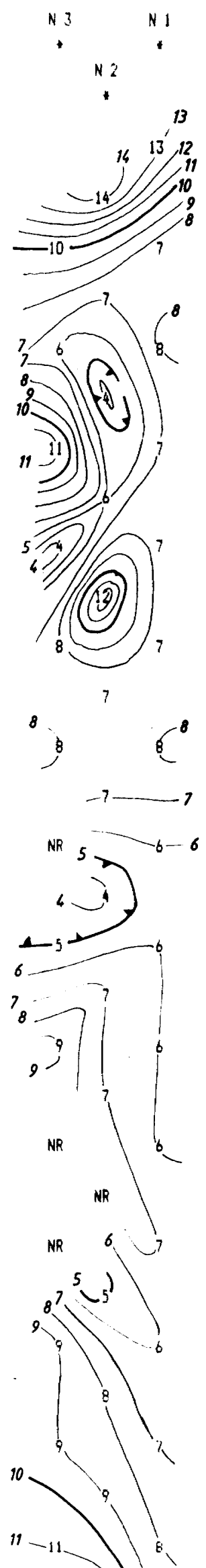
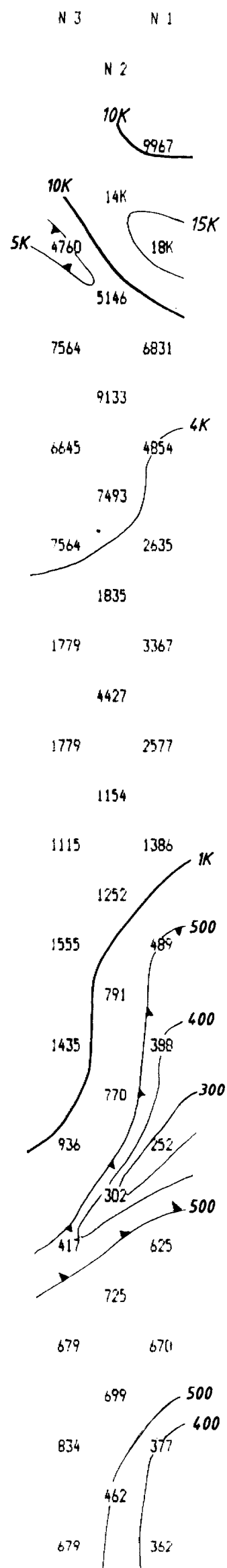
RESISTIVITY
(ohm - metres)

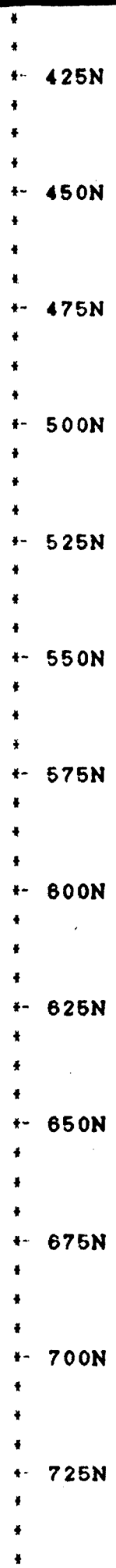
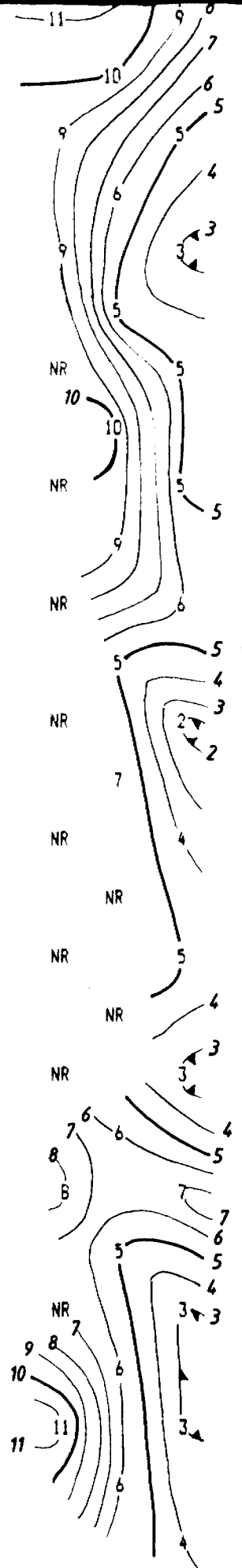
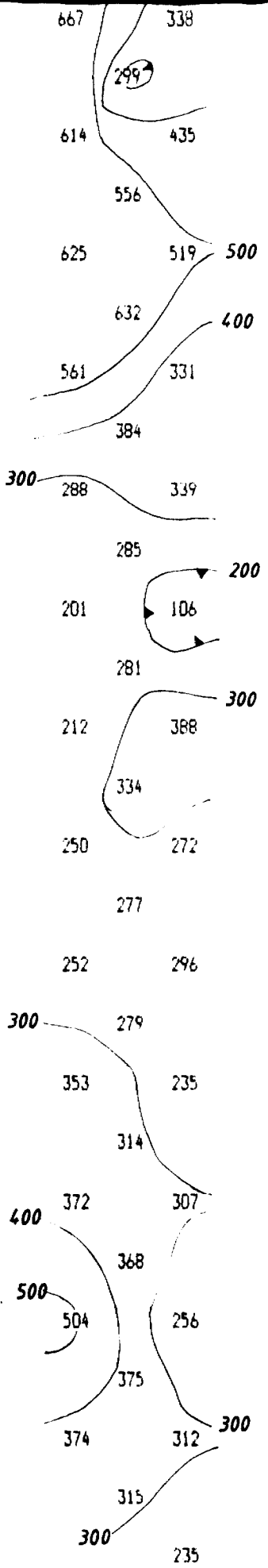
CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

F
R
A
S
E
R

A
E

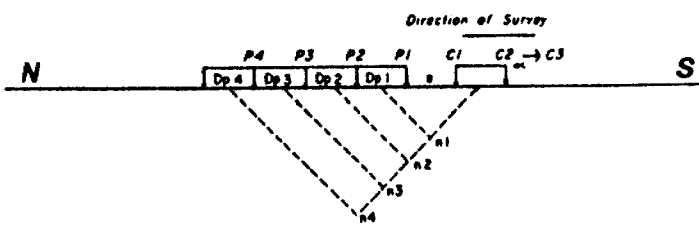




10	10
8	8
6	5
3	7
8	7
7	7
4	4
6	5
5	5
6	5
7	6
6	6
7	5
7	6

Property : MAISONVILLE GRID 3
 Client : GLEN AUDEN

Date of Survey : 28/3/86
 Operator : SDA
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-8
 Transmitter : SCINTREX IPC-8
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 650 ms
 Integration Time : 520 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 3
 'a' Spacing = 25 M

L I N E E Q U

SCALE : 1 : 1250

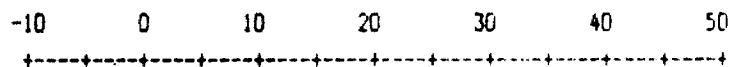
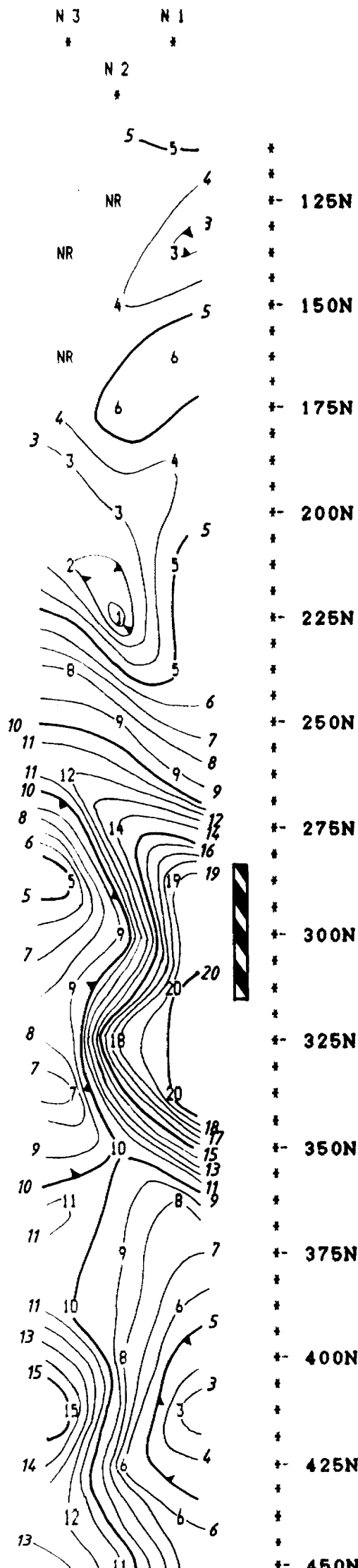
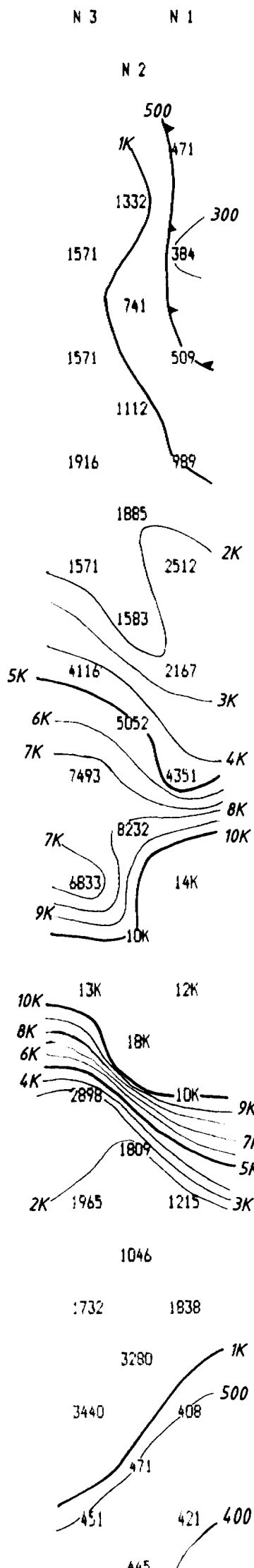
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

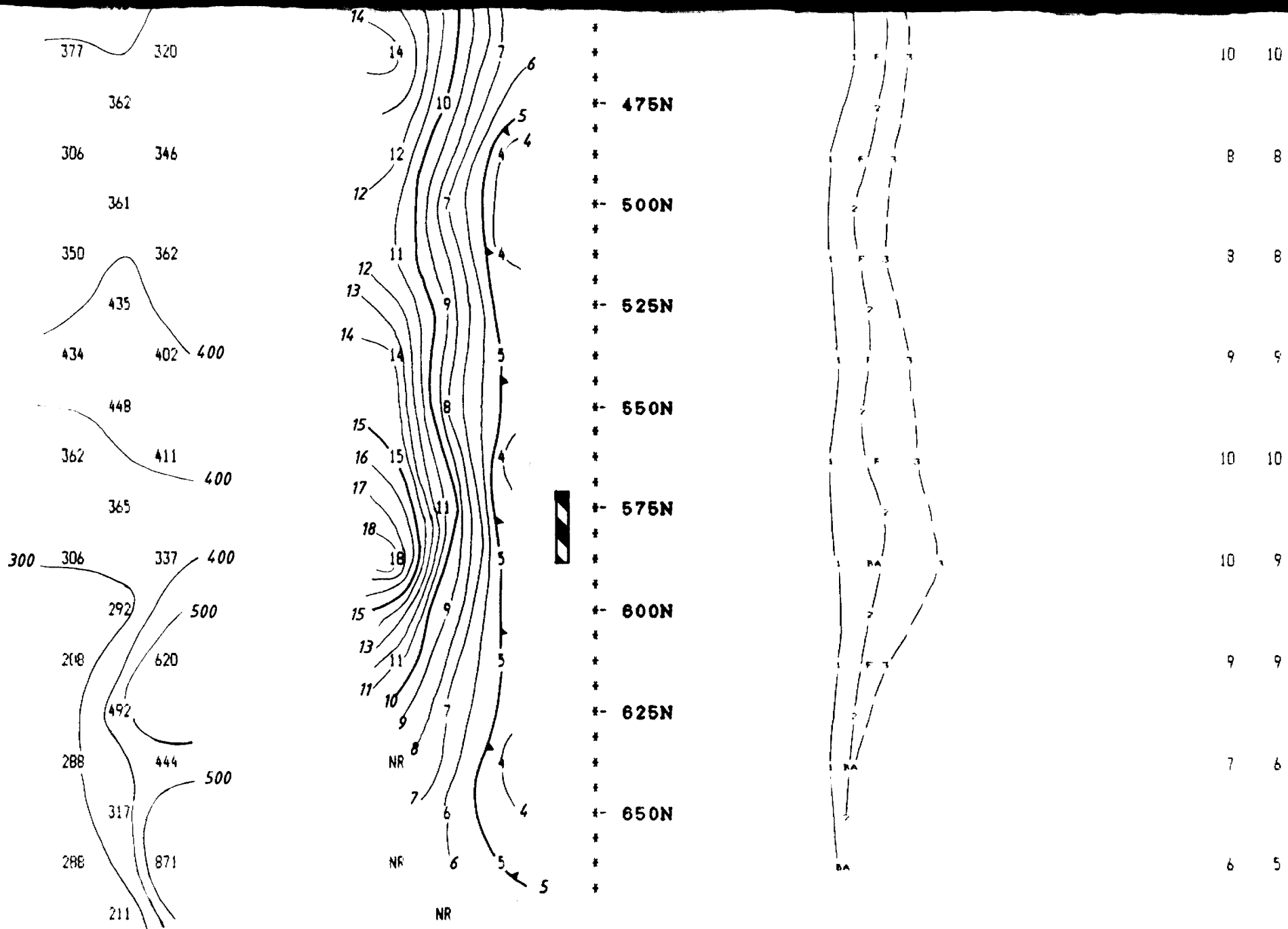
F I
R A
S L
E T
R R

A B



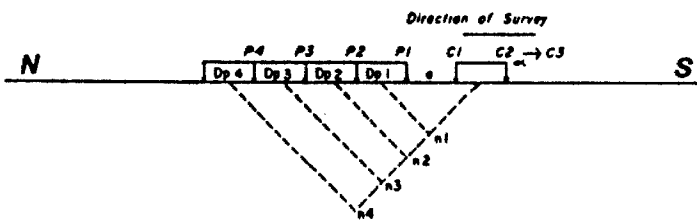
125N
150N
175N
200N
225N
250N
275N
300N
325N
350N
375N
400N
425N
450N

5 5
4 3
5 5
4 4
4 4
4 4
6 6
10 9
13 14
14 13
14 15
9 9
9 9
7 7
10 10



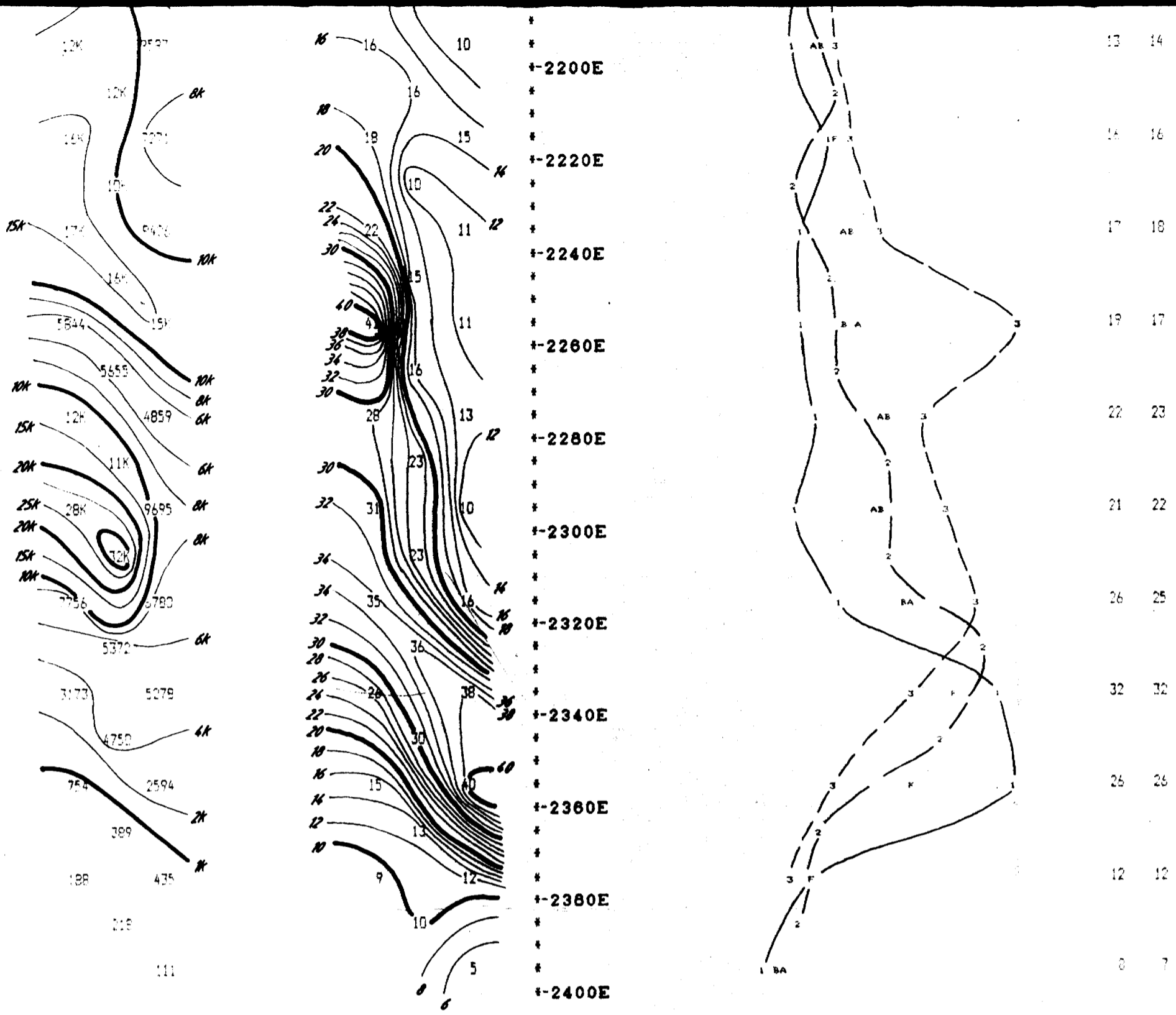
Property : MAISONVILLE GRID 3
 Client : GLEN AUDEN

Date of Survey : 29/3/86
 Operator : SDA
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-B
 Transmitter : SCINTREX IPC-B
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 650 ms
 Integration Time : 520 ms



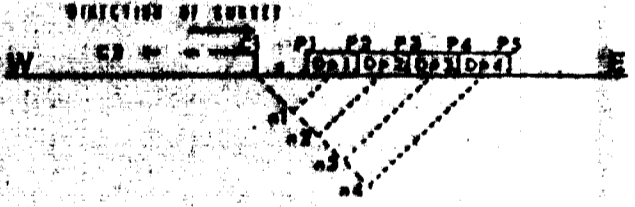
 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 3
 'a' Spacing = 25 M
 LINE 150 W



Property : MAISONVILLE GRID 4
 Client : GLEN AUDEN

Date of Survey : 4/3/86
 Operator : RRM
 Electrode Array : POLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-8
 Transmitter : SCINTREX IPC-7
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 650 ms
 Integration Time : 520 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

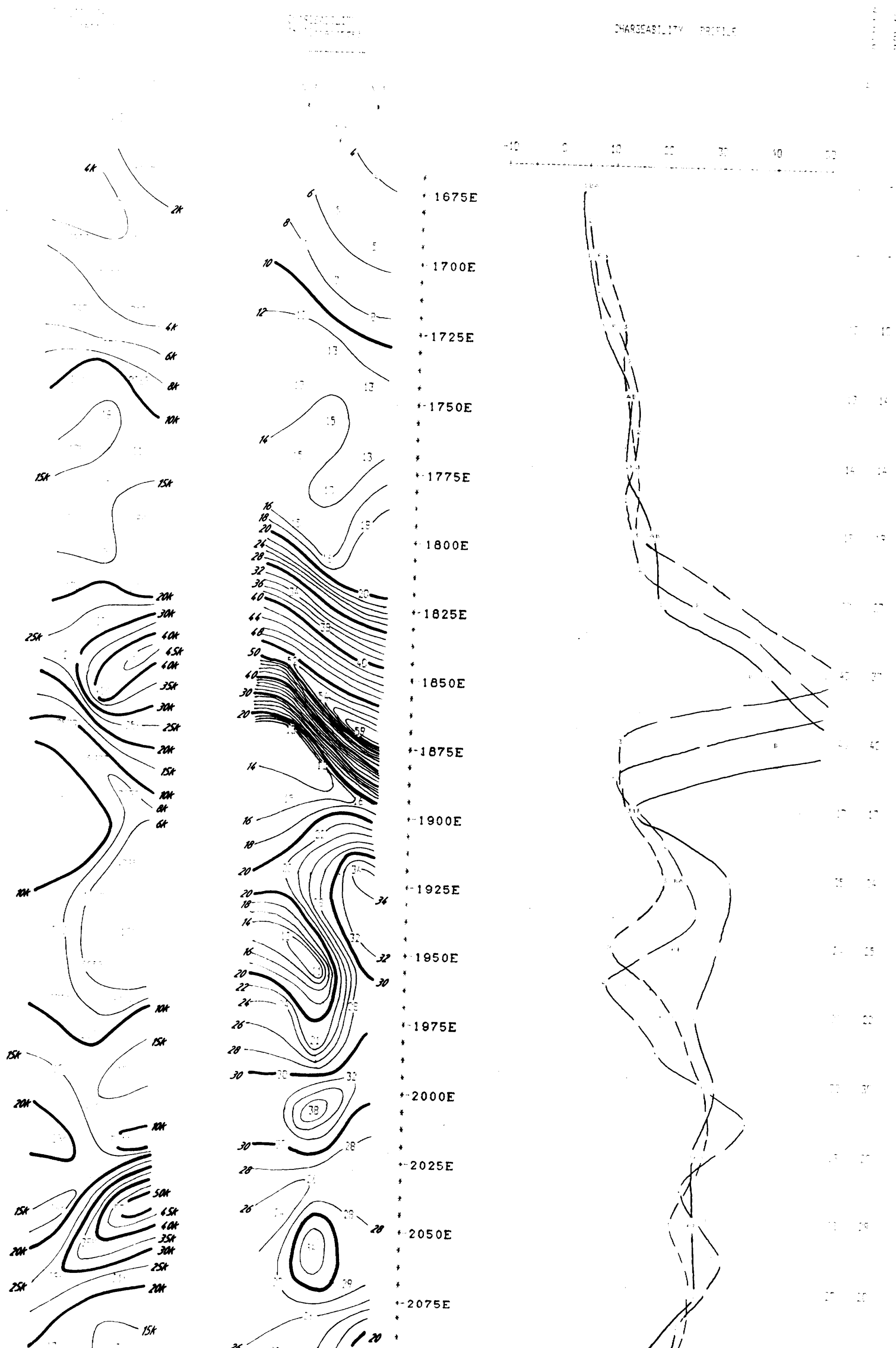
IP Pseudosections for N = 1 to 3

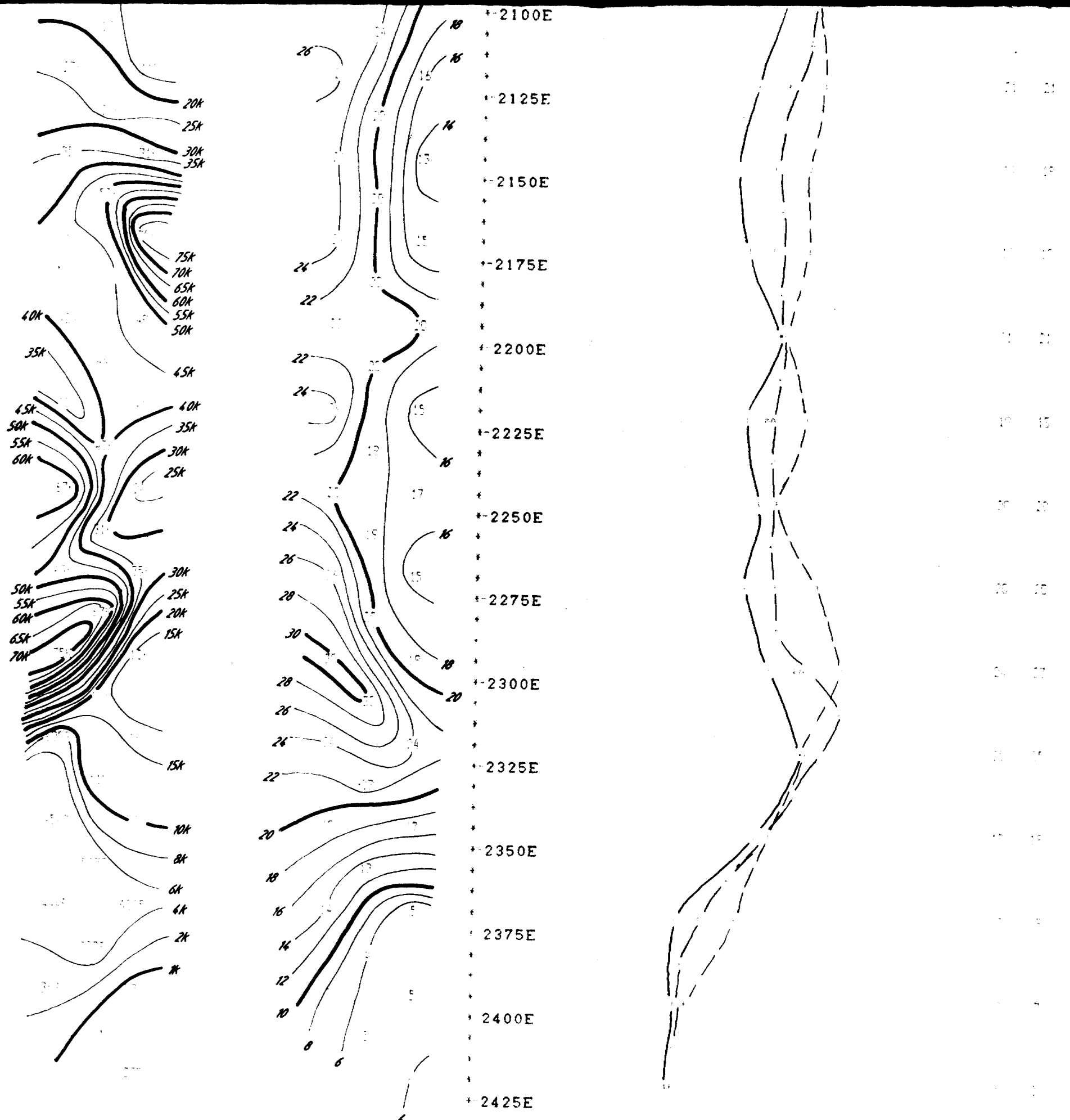
'a' Spacing = 20 M

LINE 1350 N

SCALE = 1:1000

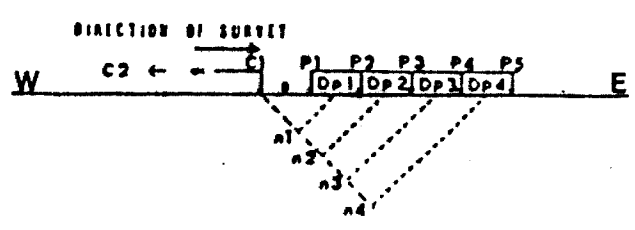
CHARGEABILITY PROFILE





Property : MAISONVILLE GRID 4
 Client : GLEN AUDEN

Date of Survey : 8/3/84
 Operator : RBM
 Electric Array : POLE DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-8
 Transmitter : SCINTREX IPR-7
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 450 ms
 Integration Time : 520 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

Bryce Bodger

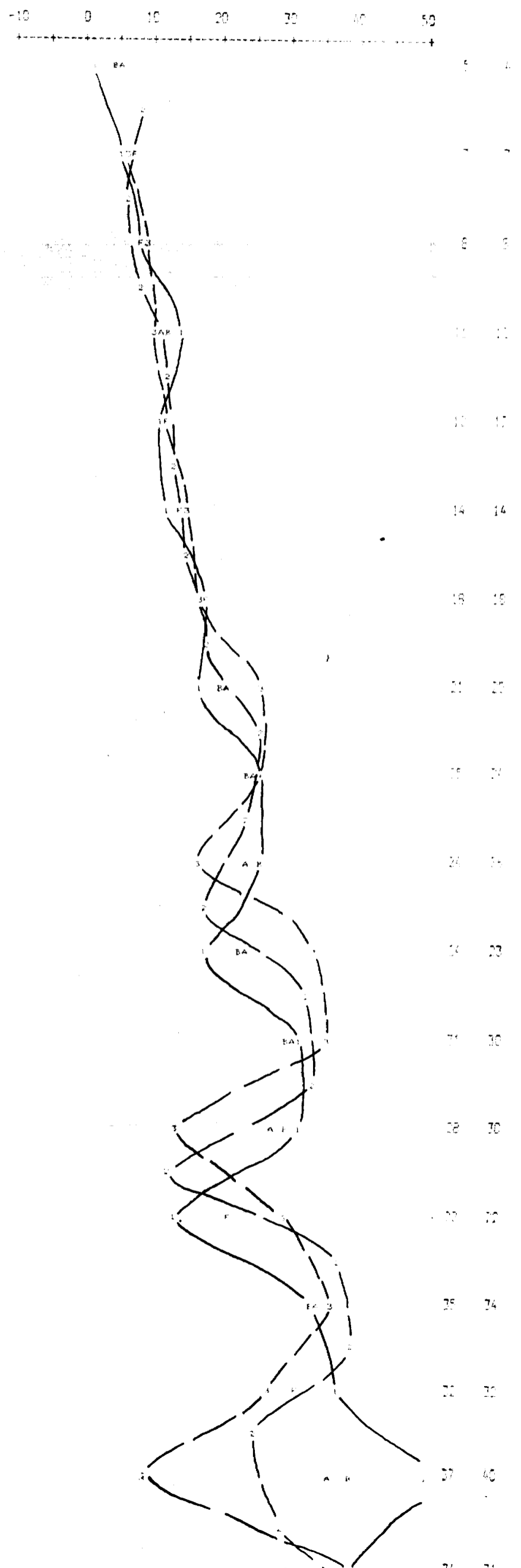
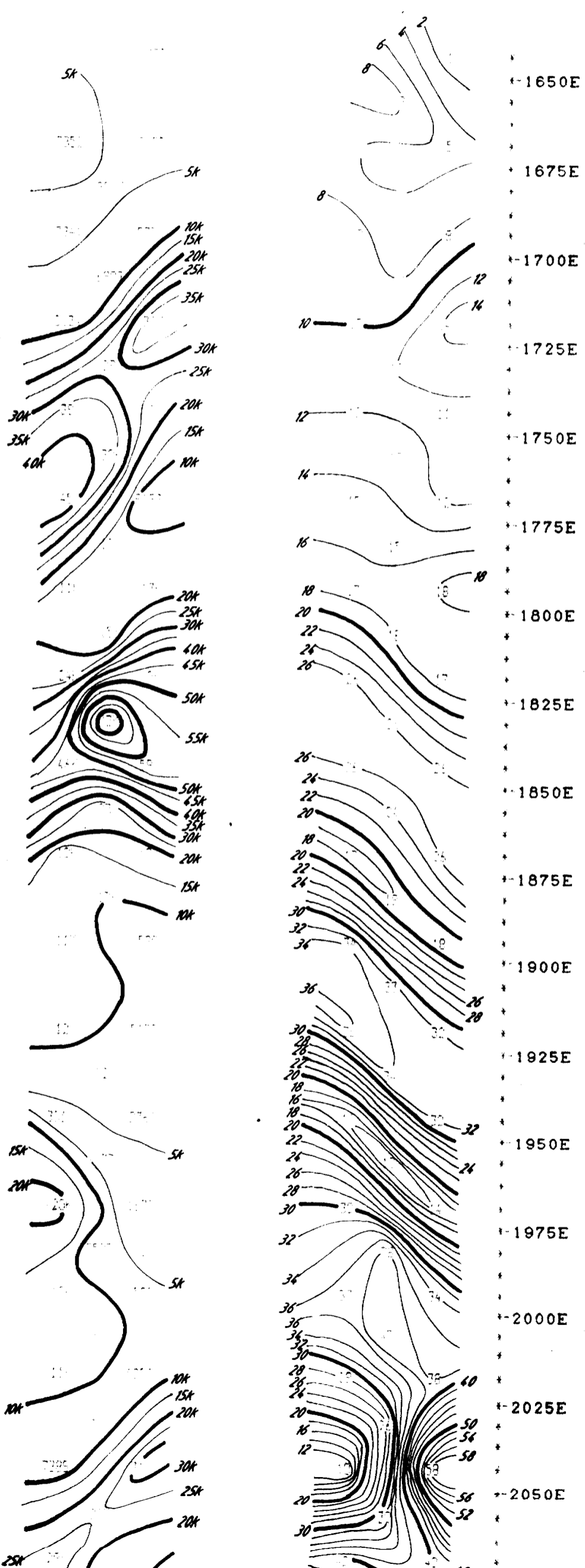
IP Pseudosections for N = 1 to 3
 'a' Spacing = 25 M

LINE 1600 N

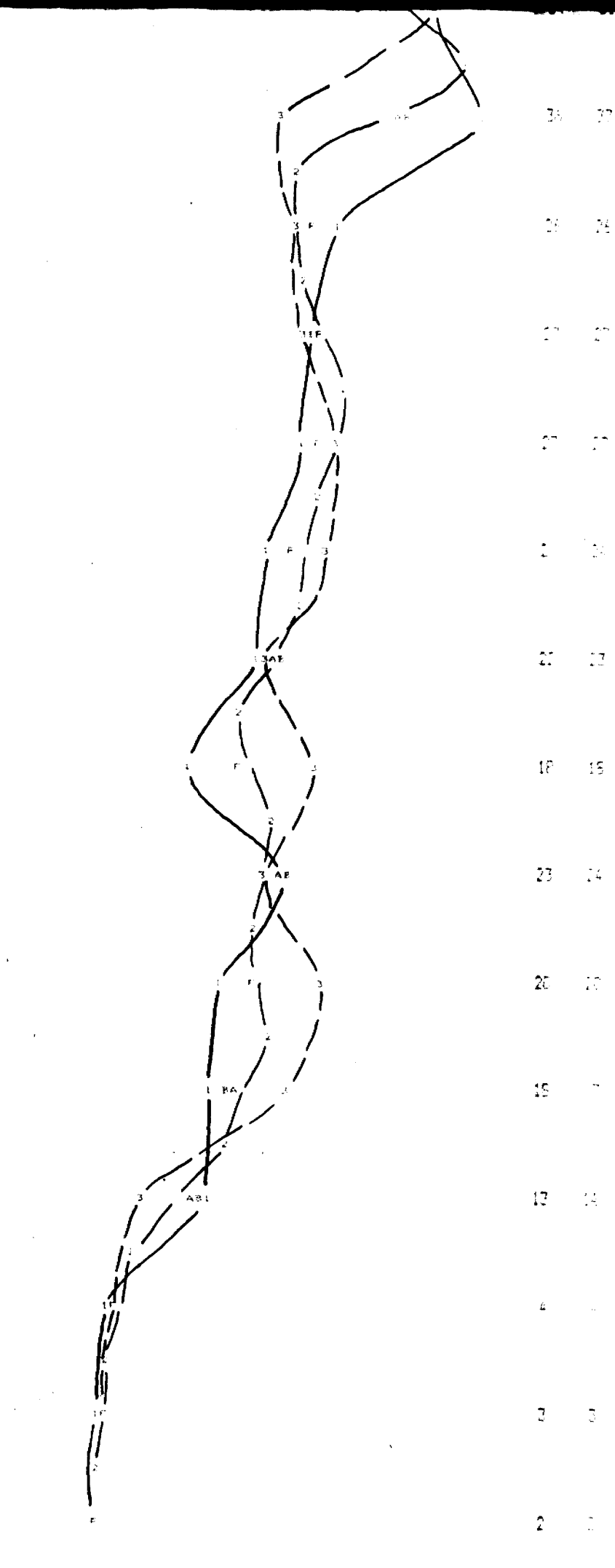
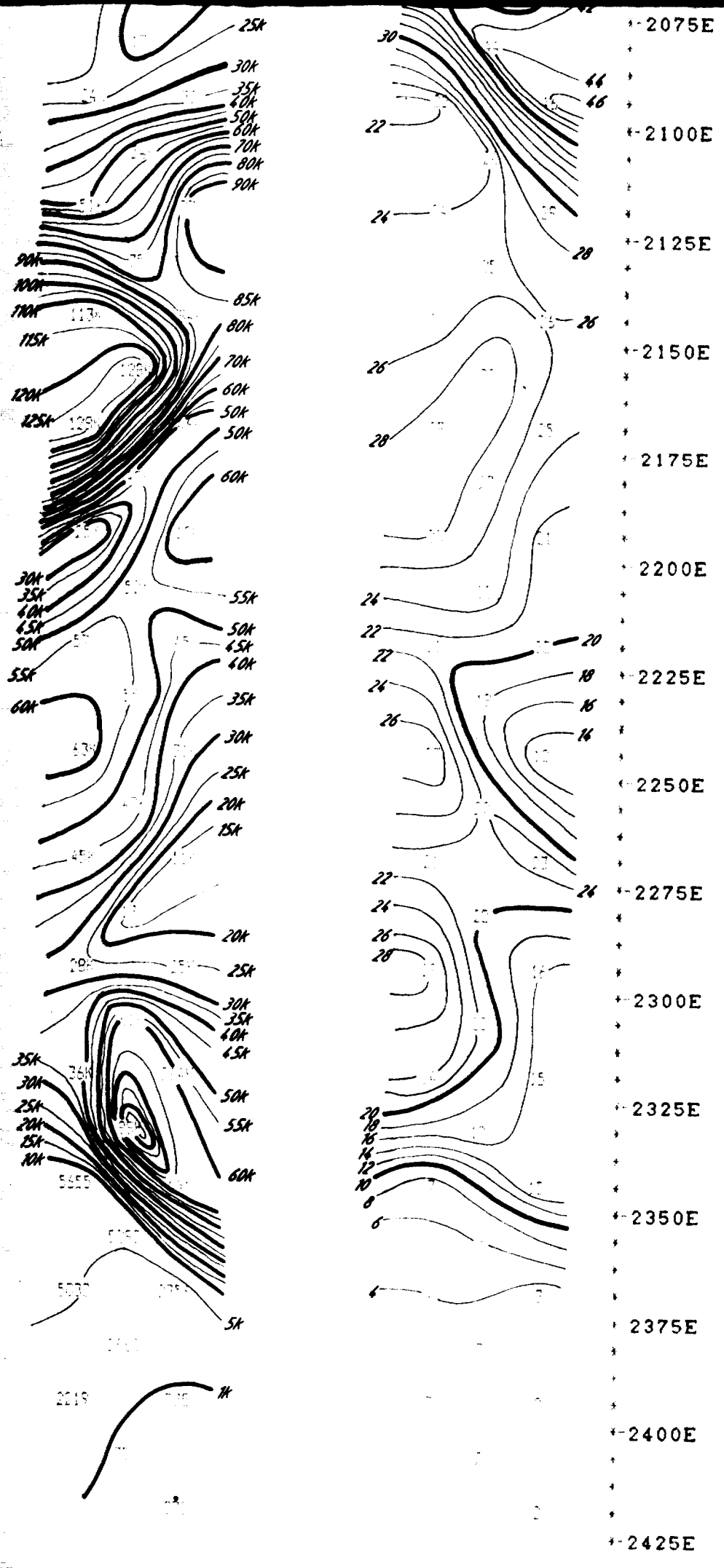
RESISTIVITY
data

CHARGEABILITY PROFILE

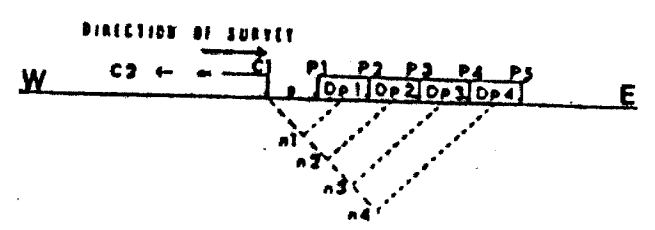
RESISTIVITY
data



5	4
7	7
8	8
10	11
10	12
14	14
16	16
21	25
25	27
26	28
34	33
37	30
38	30
39	32
35	34
37	30
37	40
37	34

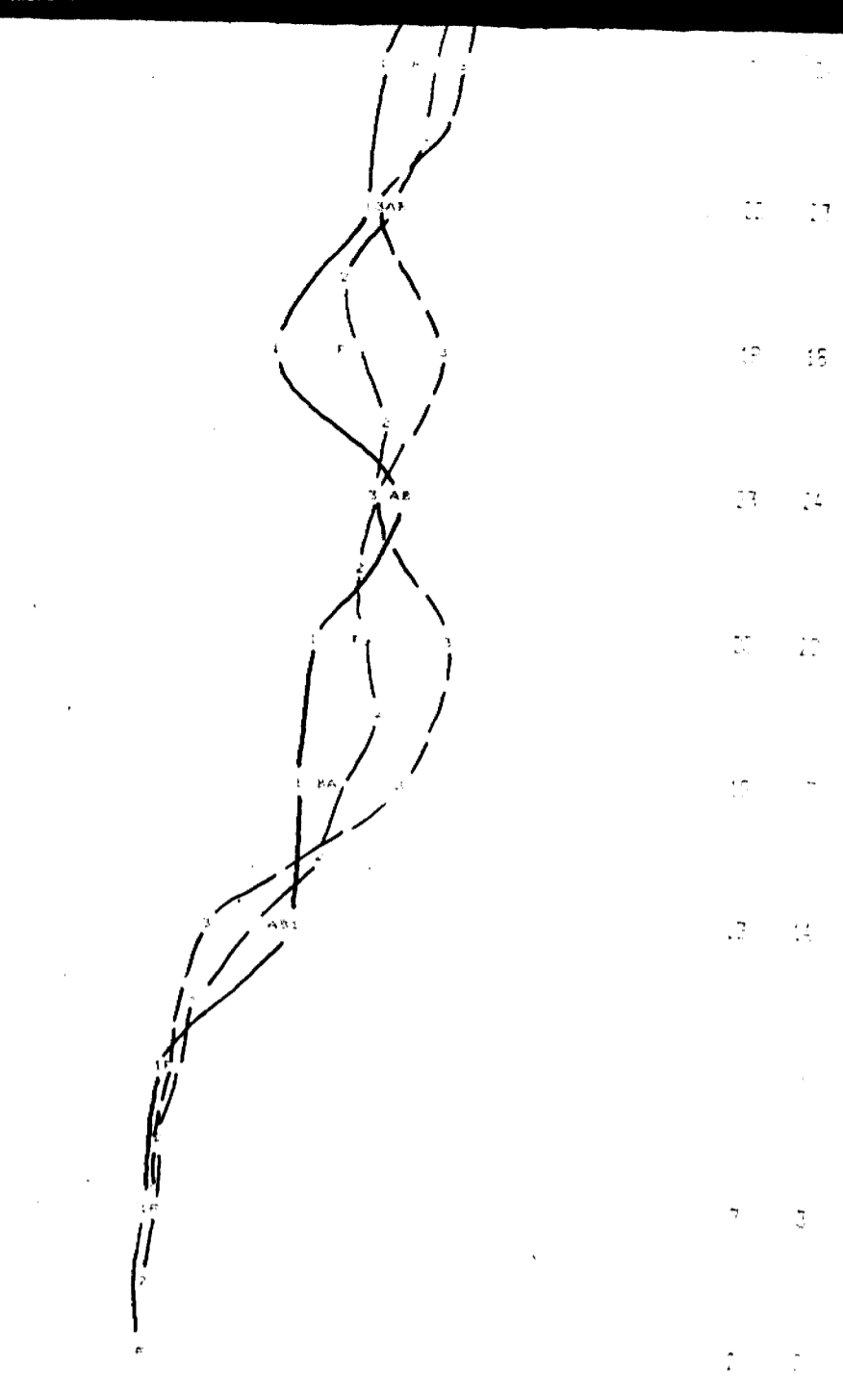
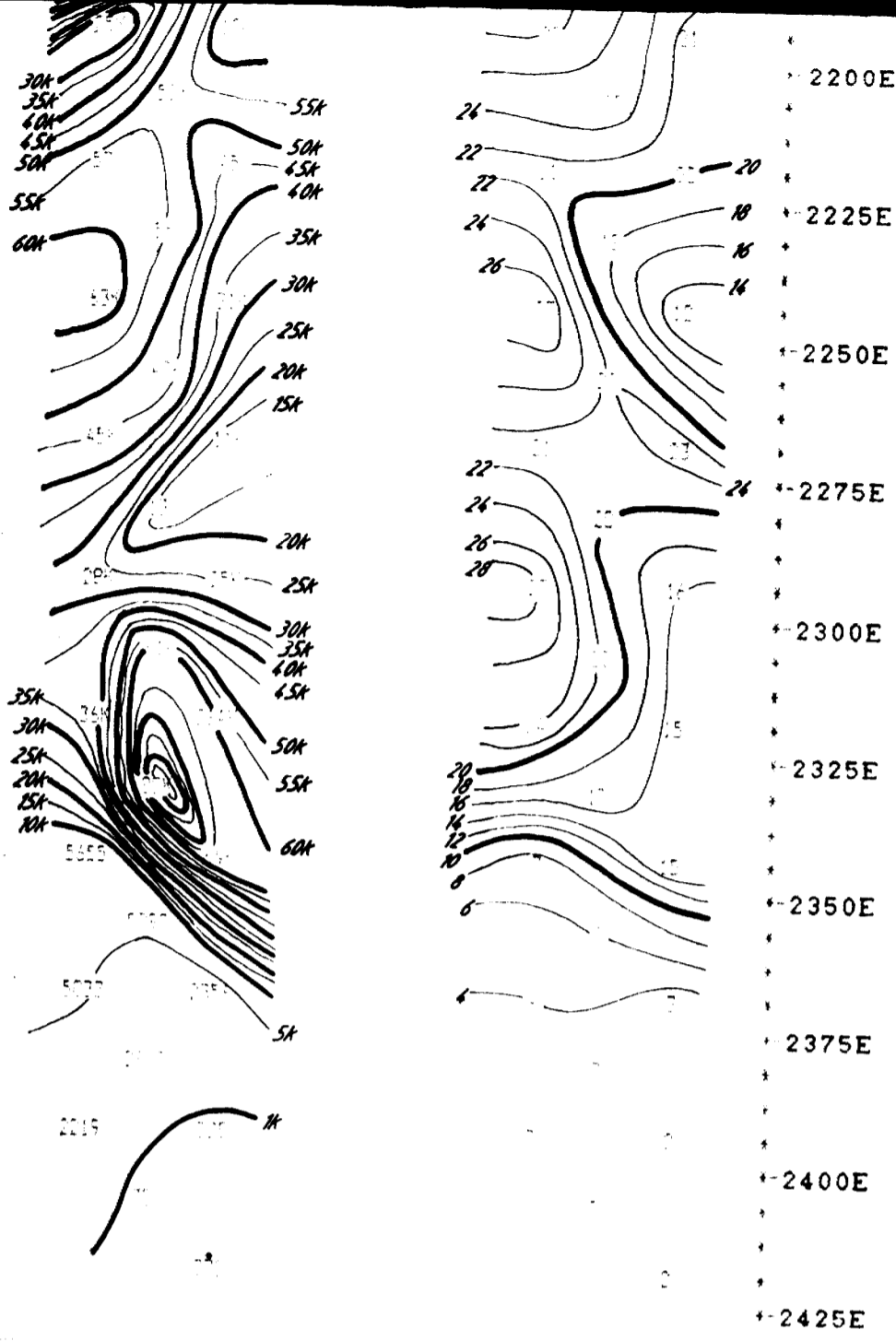


Property : MAISONVILLE GRID A
 Client : GLEN AUDEN
 Date of Survey : 9/3/86
 Operator : RRM
 Electrode Array : POLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPP-B
 Transmitter : SCINTREX IPP-B
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 650 ms
 Integration Time : 520 ms

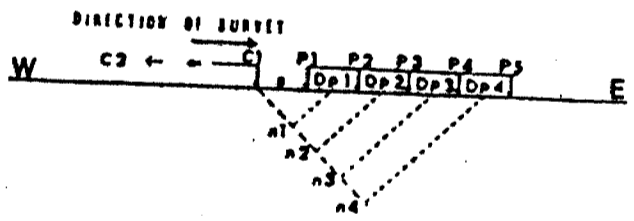


 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

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Property : MAISONVILLE GRID 4
 Client : GLEN AUDEN
 Date of Survey : 07/31/86
 Operator : RRM
 Electrode Array : POLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPP-8
 Transmitter : SCINTREX IPX-7
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 650 ms
 Integration Time : 520 ms



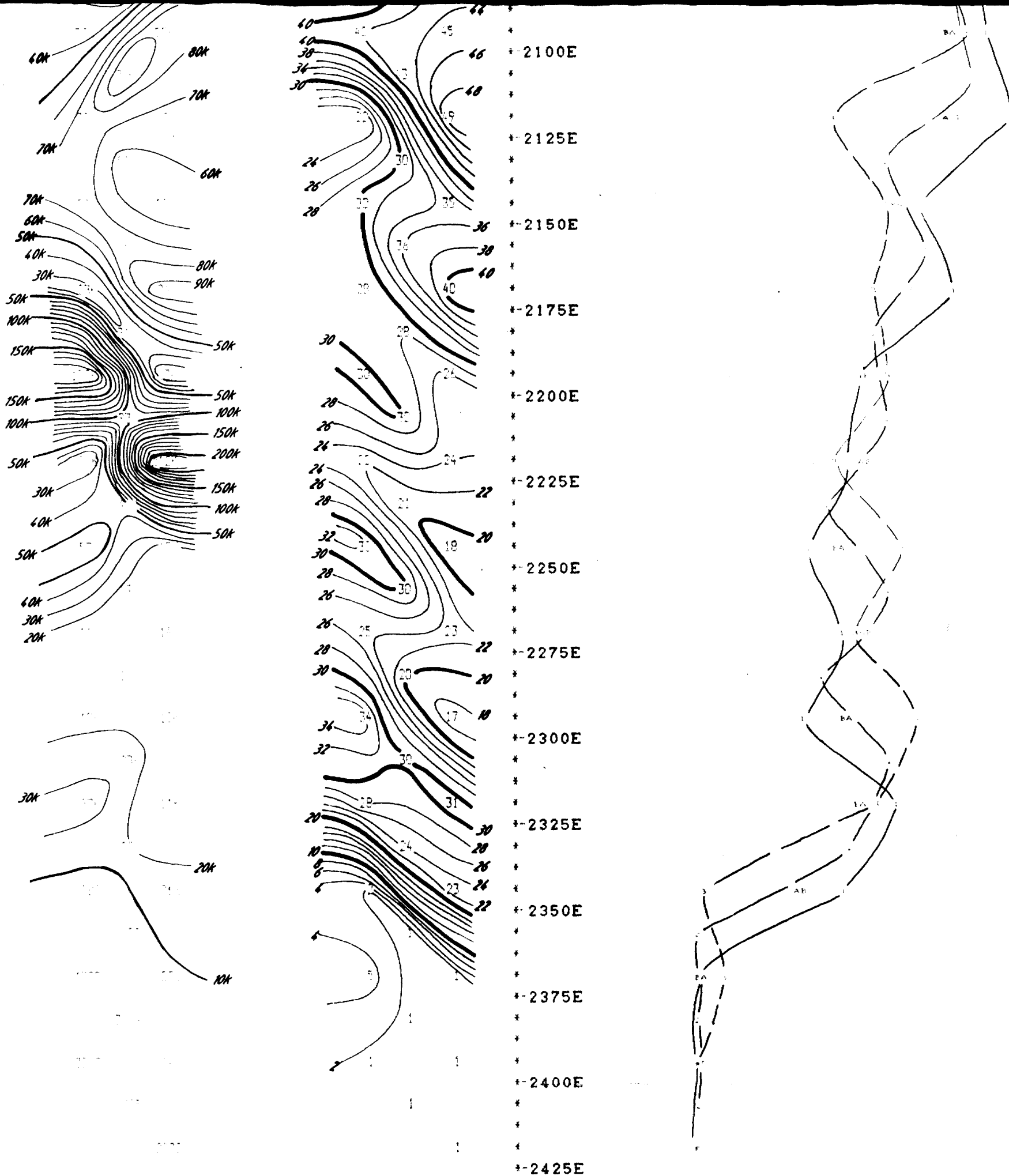
 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

Glen Auden

IP Pseudosections for N = 1 to 3

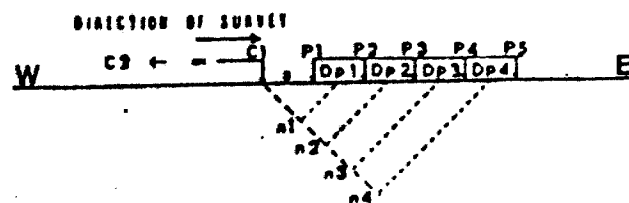
'a' Spacing = 25 M

LINE 1650 N



Property : MAISONVILLE GRID 4
 Client : GLEN AUDEN

Date of Survey : 8/3/84
 Operator : RRM
 Electrode Array : POLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-B
 Transmitter : SCINTREX IPC-7
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 450 us
 Integration Time : 520 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 3
 'a' Spacing = 25 M

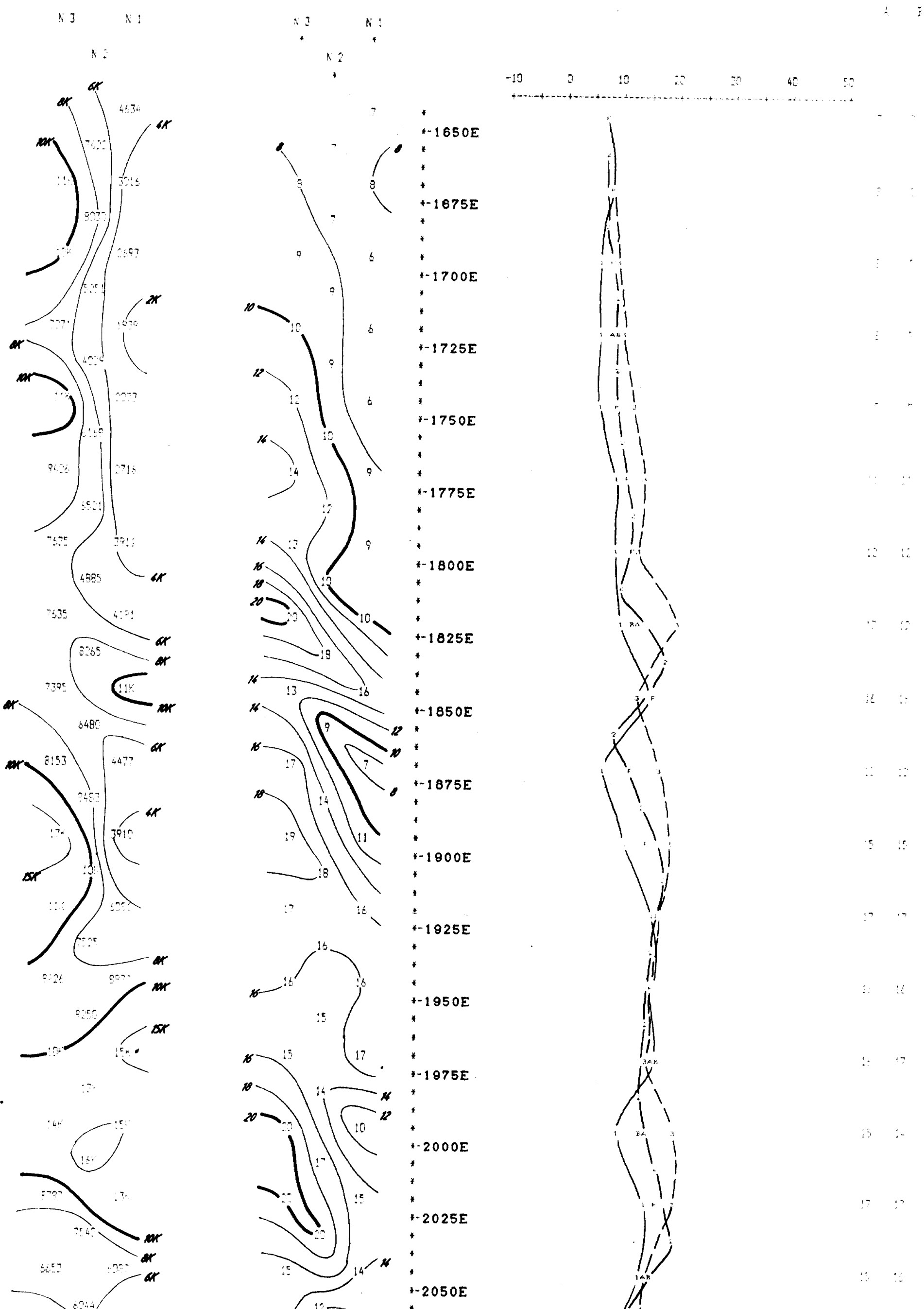
Greg Hodge

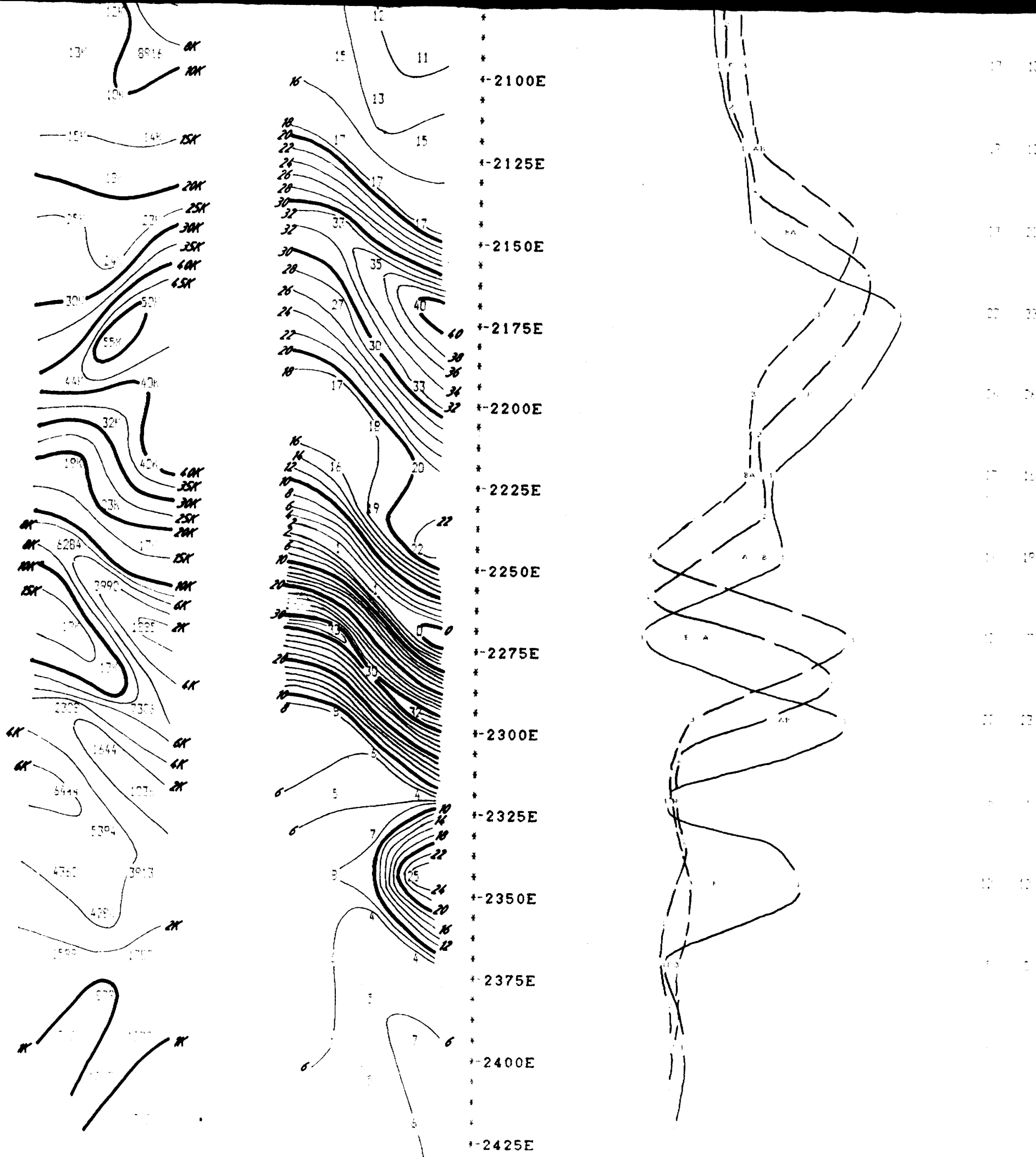
SCALE : 1 : 1250

RESISTIVITY
(ohm-metres)

CHARGEABILITY
(milliseconds)

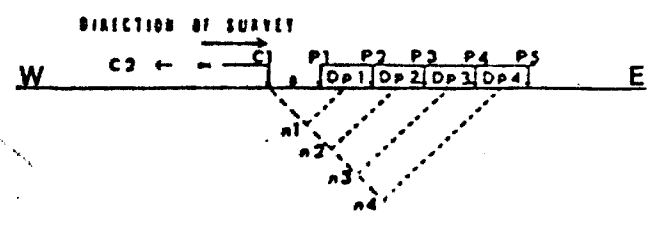
CHARGEABILITY PROFILE





Property : MAISONVILLE GRID 4
 Client : GLEN AUDEN

Date of Survey : 8/7/86
 Operator : JRM
 Electrode Array : POLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-8
 Transmitter : SCINTREX IPO-7
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 650 ms
 Integration Time : 520 ms



Greg Bodger
 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

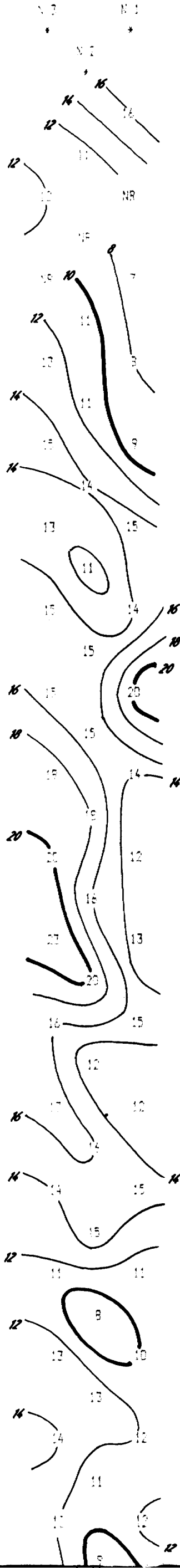
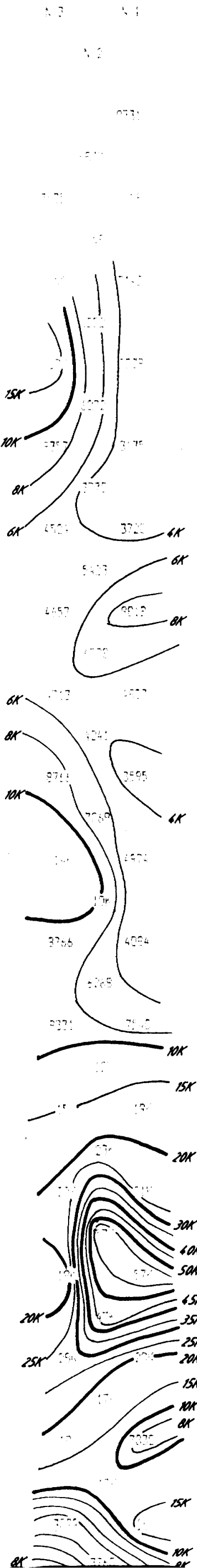
IP Pseudosections for N = 1 to 3
 25 M Spacing = 25 M

SCALE : 1 : 1250

RESISTIVITY
(ohm meter)

CHARGEABILITY
(milliseconds)

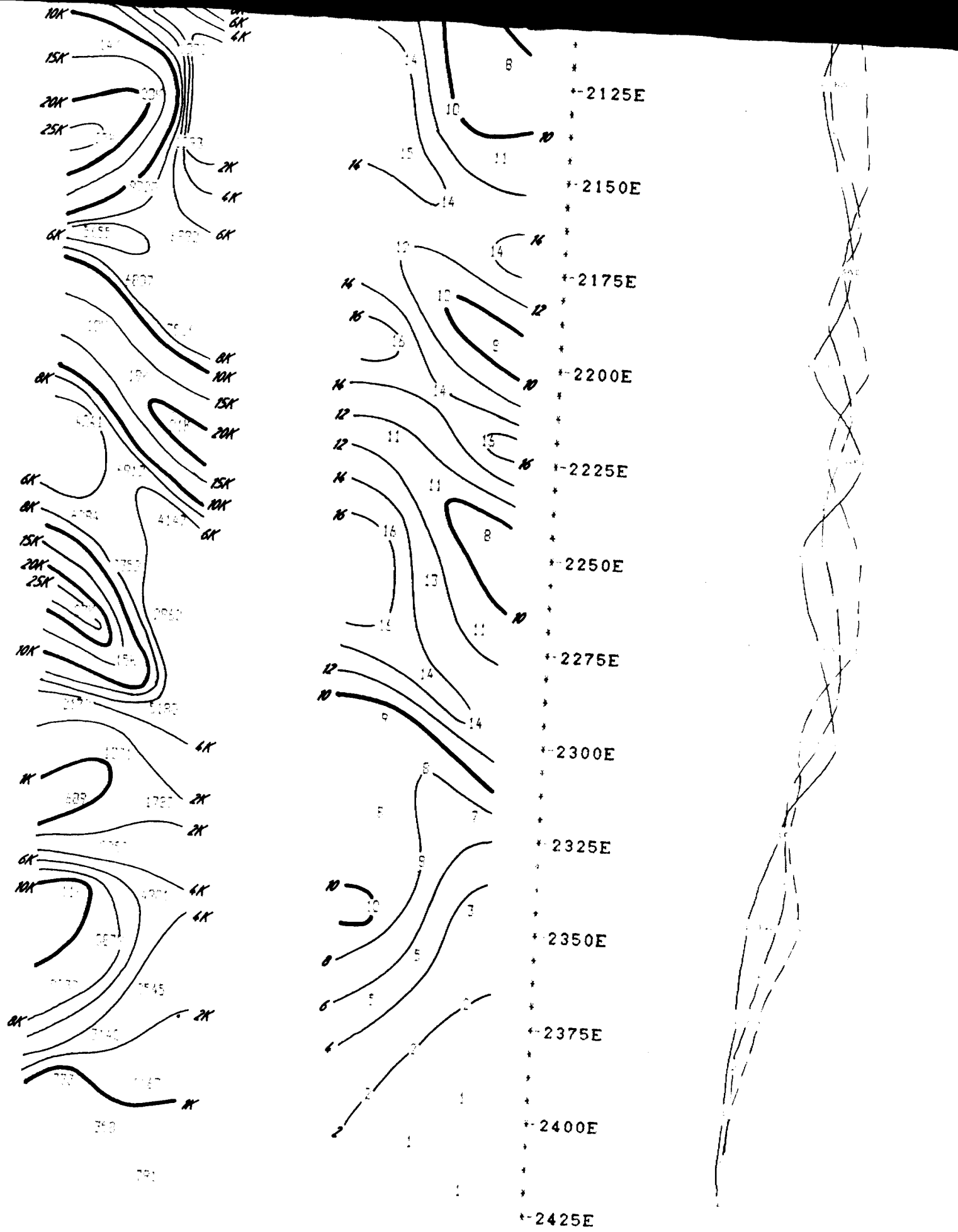
CHARGEABILITY (ms)



-10 0 10 20 30 40 50

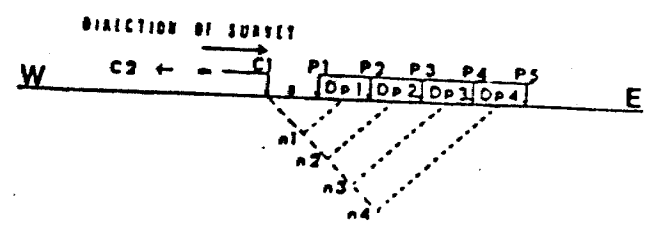


Station	Resistivity (ohm meter)	Chargeability (milliseconds)
1675E	15K	14
1700E	10K	11
1725E	8K	10
1750E	6K	9
1775E	4K	8
1800E	3K	7
1825E	2K	6
1850E	1.5K	5
1875E	1K	4
1900E	0.5K	3
1925E	0.2K	2
1950E	0.1K	1
1975E	0.05K	0.5
2000E	0.02K	0.2
2025E	0.01K	0.1
2050E	0.005K	0.05
2075E	0.002K	0.02
2100E	0.001K	0.01



Property : MAISONVILLE GRID 4
 Client : GLEN AUDEN

Date of Survey : 8/3/86
 Operator : RBM
 Electrode Array : POLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-B
 Transmitter : SCINTREX IPC-7
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 650 ms
 Integration Time : 520 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 3
 'a' Spacing = 25 M

LINE 1800 N

SCALE : 1:1250

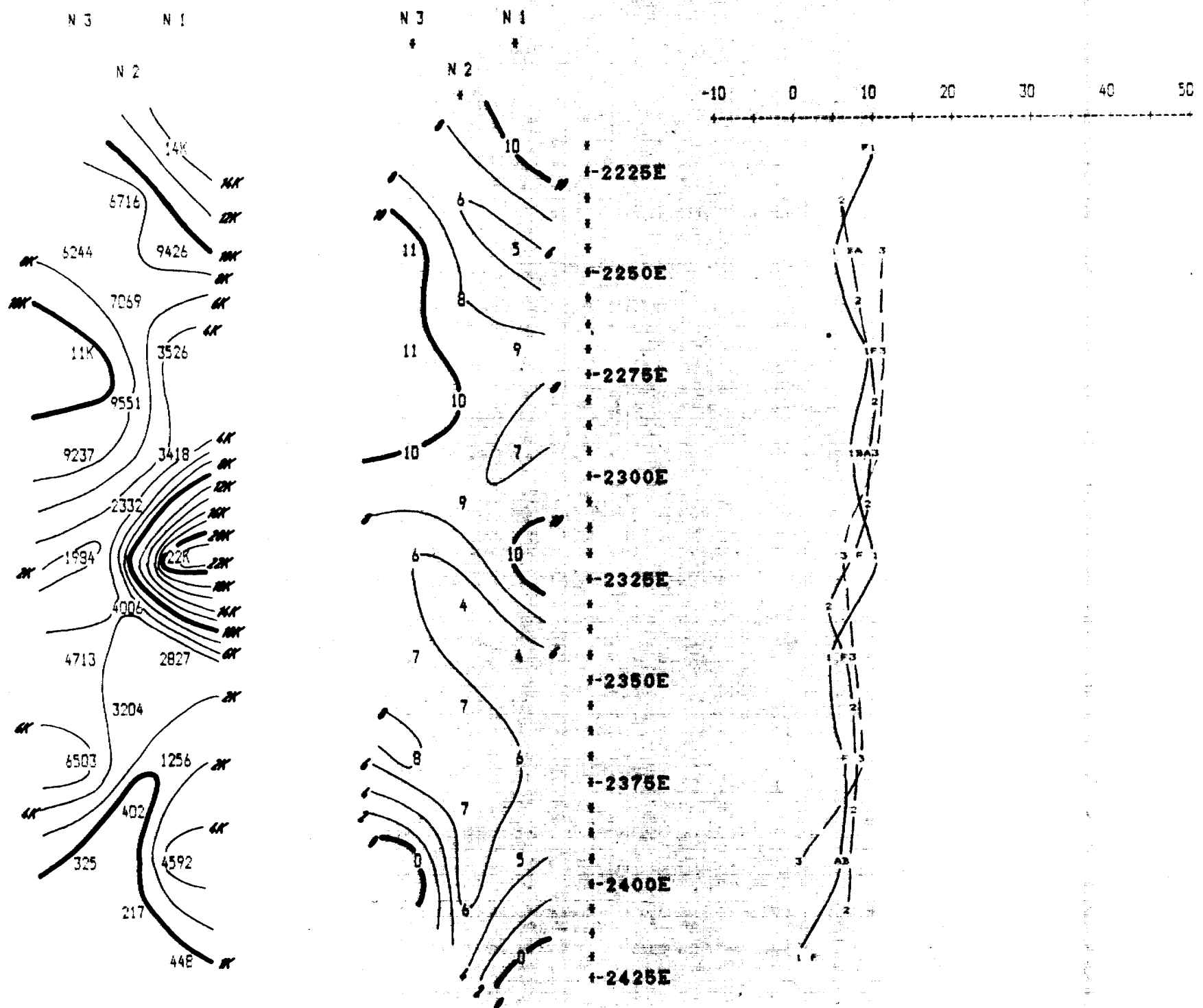
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

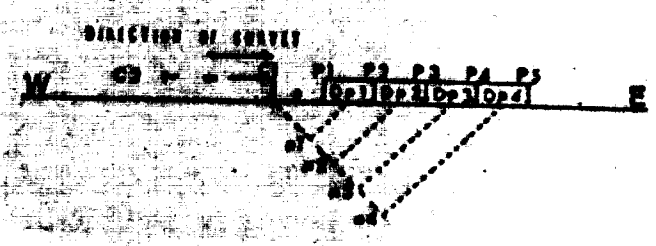
F I L T E R
R A S E R

A B



Property : MAISONVILLE GRID 4
 Client : GLEN AUDEN

 Date of Survey : 8/3/86
 Operator : RRM
 Electrode Array : POLE = DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-8
 Transmitter : SCINTREX IPC-7
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 650 ms
 Integration Time : 520 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

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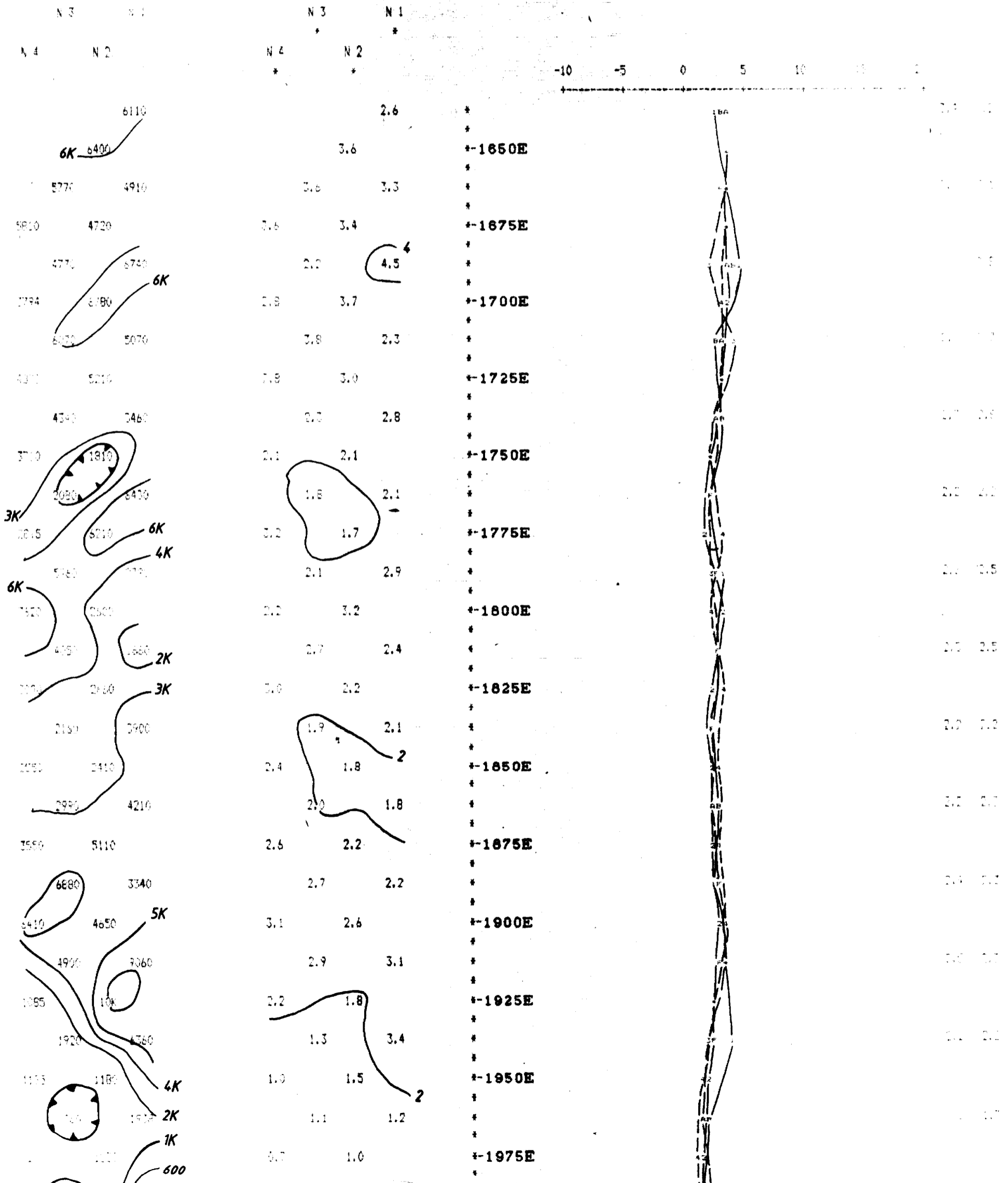
IP Pseudosections for N = 1 to 3
 'a' Spacing = 25 M

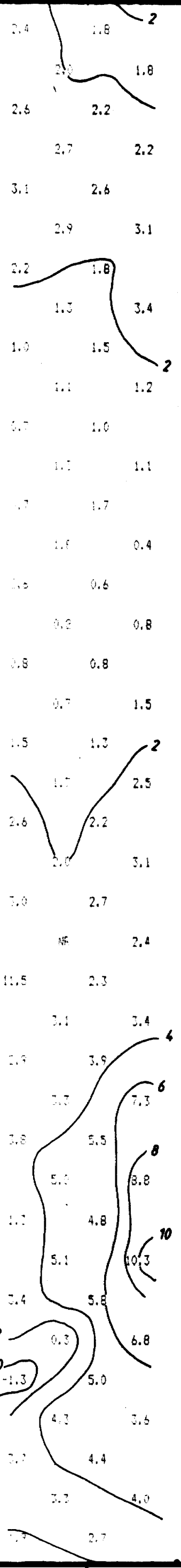
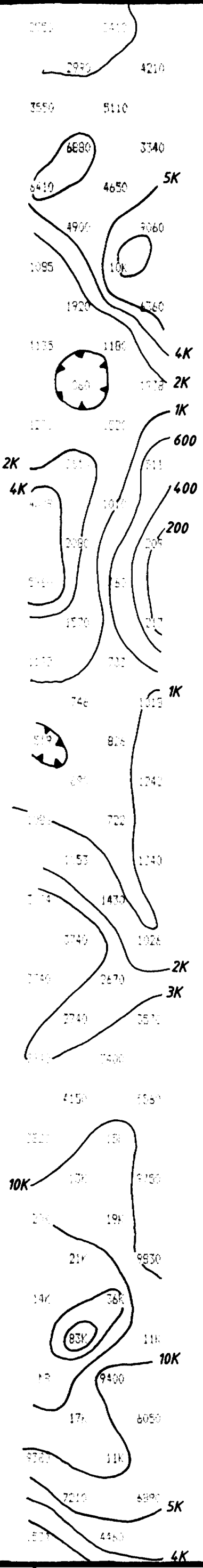
SCALE : 1:1250

RESISTIVITY
(ohm-metres)

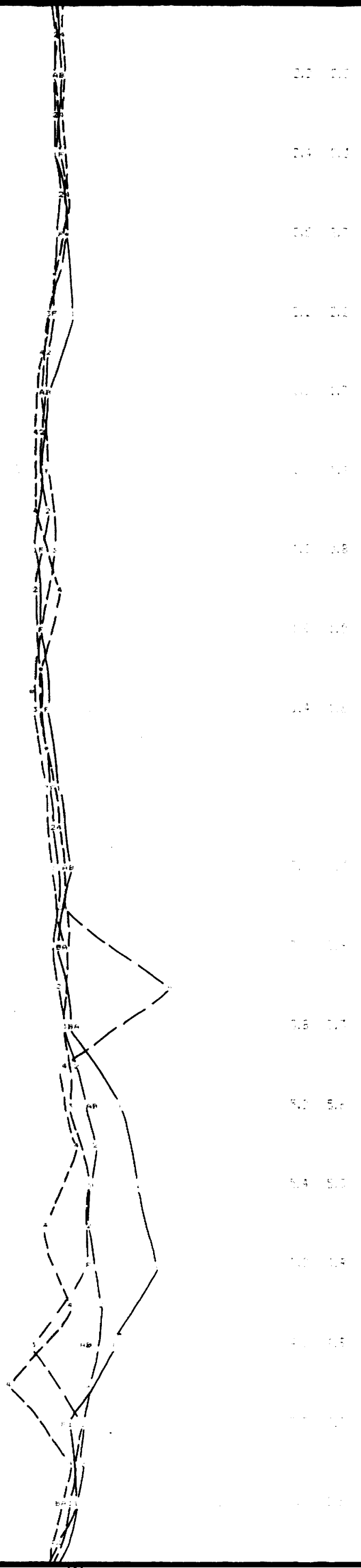
CHARGEABILITY
(milli-seconds)

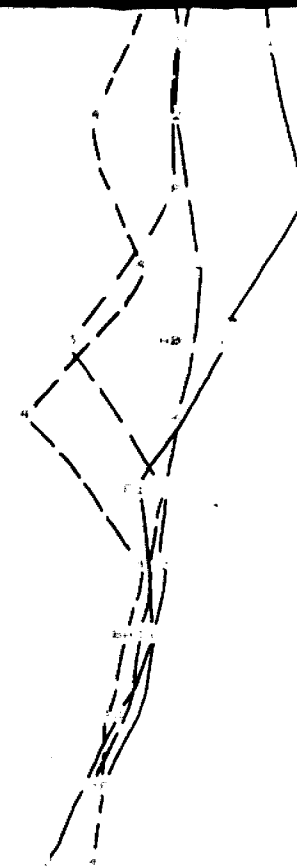
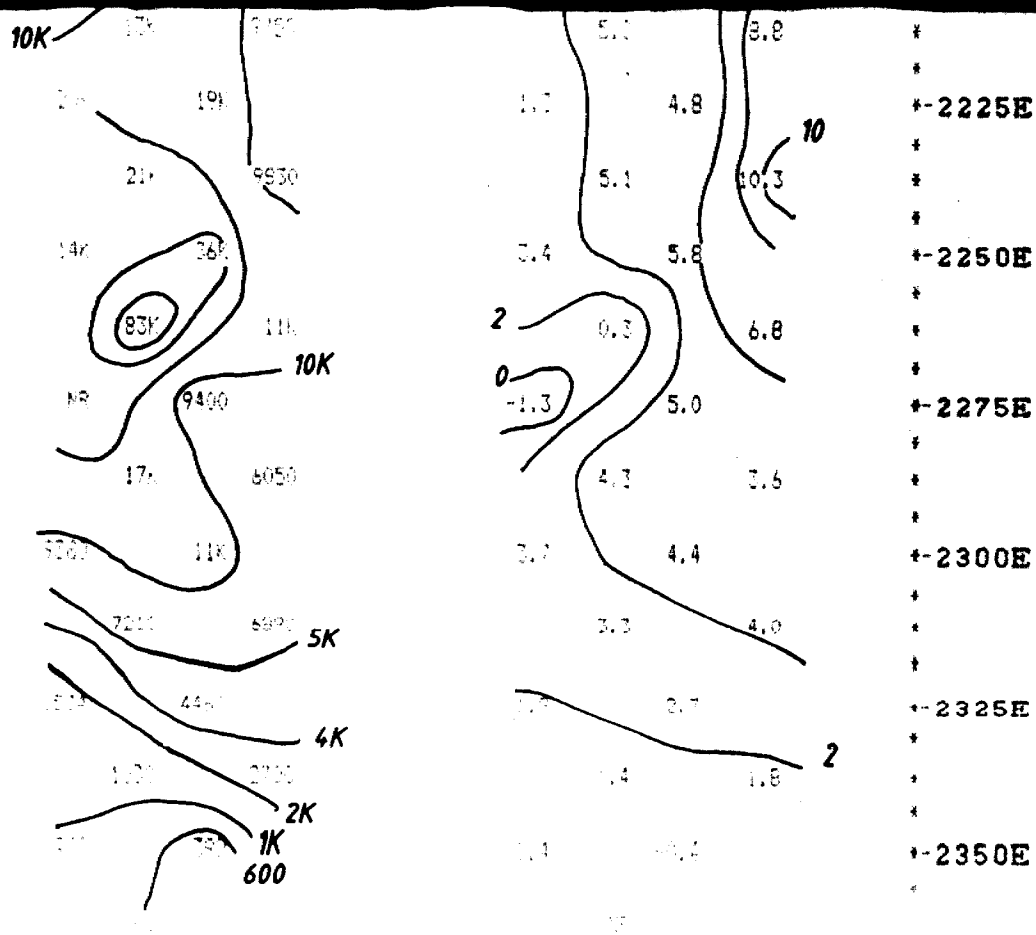
CHARGEABILITY PROFILE





- *-1850E
- *-1875E
- *-1900E
- *-1925E
- *-1950E
- *-1975E
- *-2000E
- *-2025E
- *-2050E
- *-2075E
- *-2100E
- *-2125E
- *-2150E
- *-2175E
- *-2200E
- *-2225E
- *-2250E
- *-2275E
- *-2300E
- *-2325E





Property : MAISONVILLE TWP. GRID 6

Client : GLEN AUDEN RESOURCES

Date of Survey : 1988-06

Operator : GOR

Electrode Array : DIFDOL - DIFDOL

Mode : TIME DOMAIN

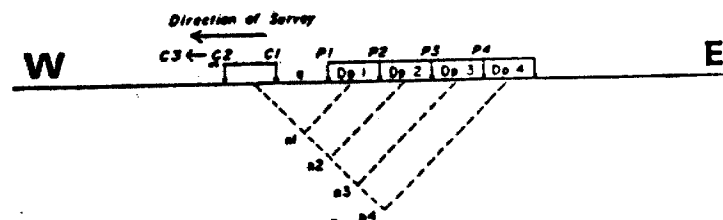
Receiver : SCINTREX 1000

Transmitter : SCINTREX 1500

Pulse Time : 2.000 on 2.000 off

Delay Time : 250 ms

Integration Time : 780 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

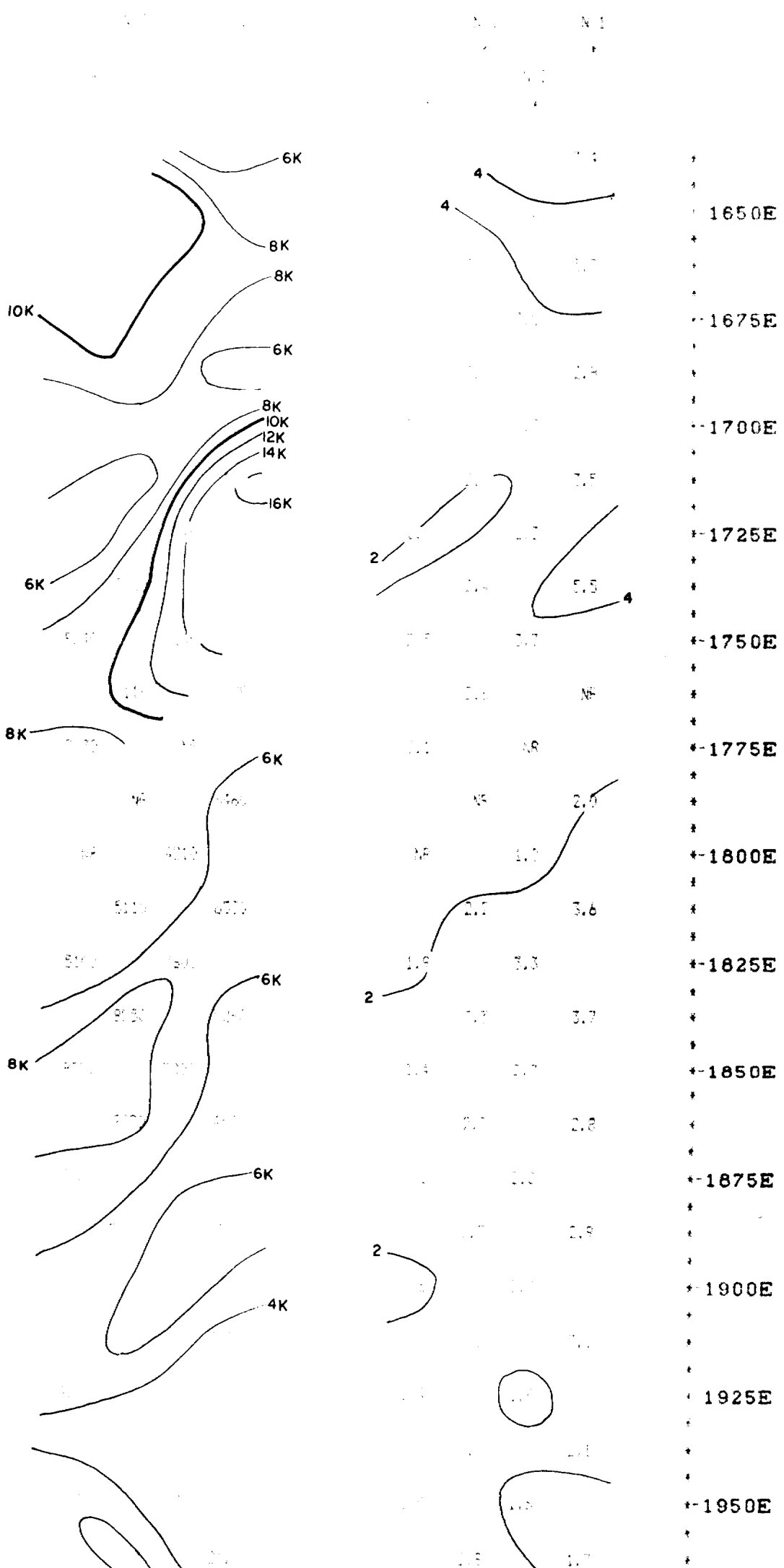
LINE 5050 N

SCALE : 1:1250

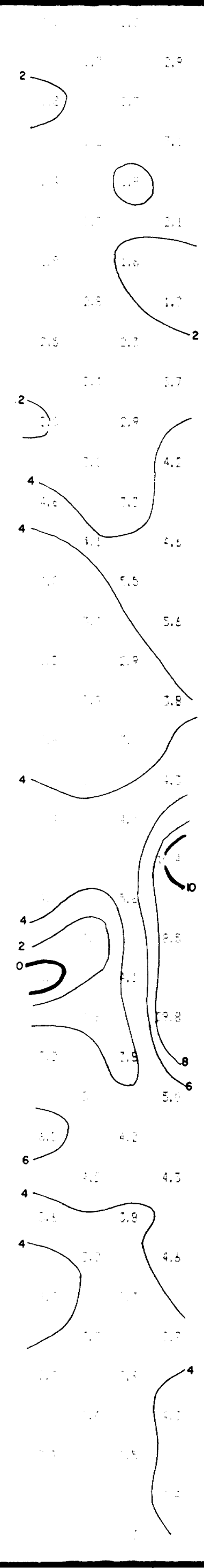
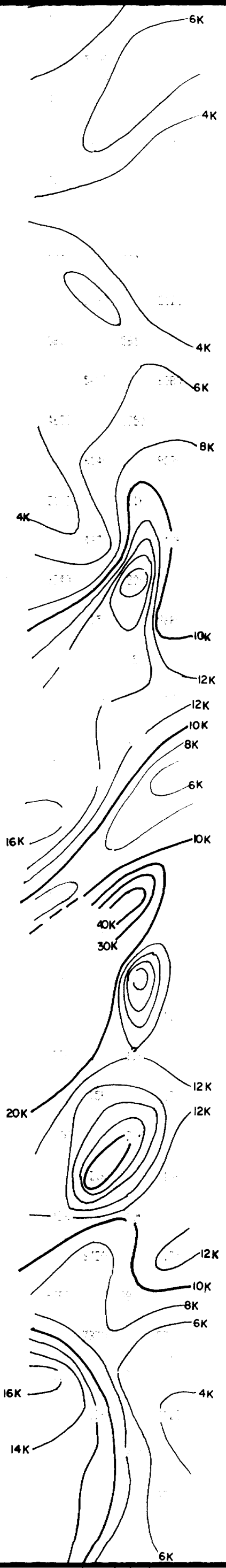
CHARGEABILITY
PROFILE

CHARGEABILITY
PROFILE

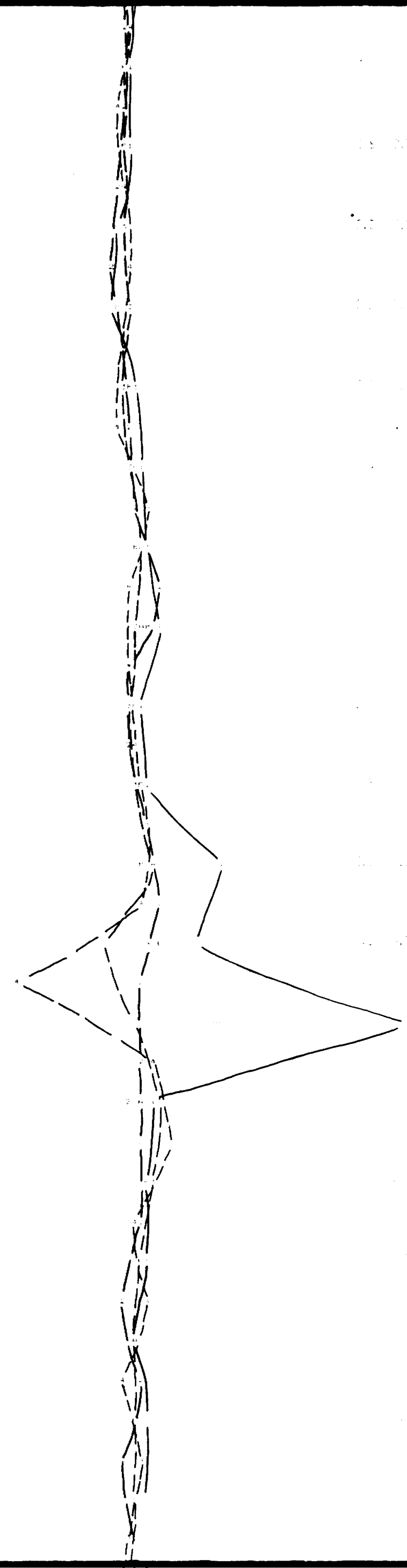
CHARGEABILITY PROFILE

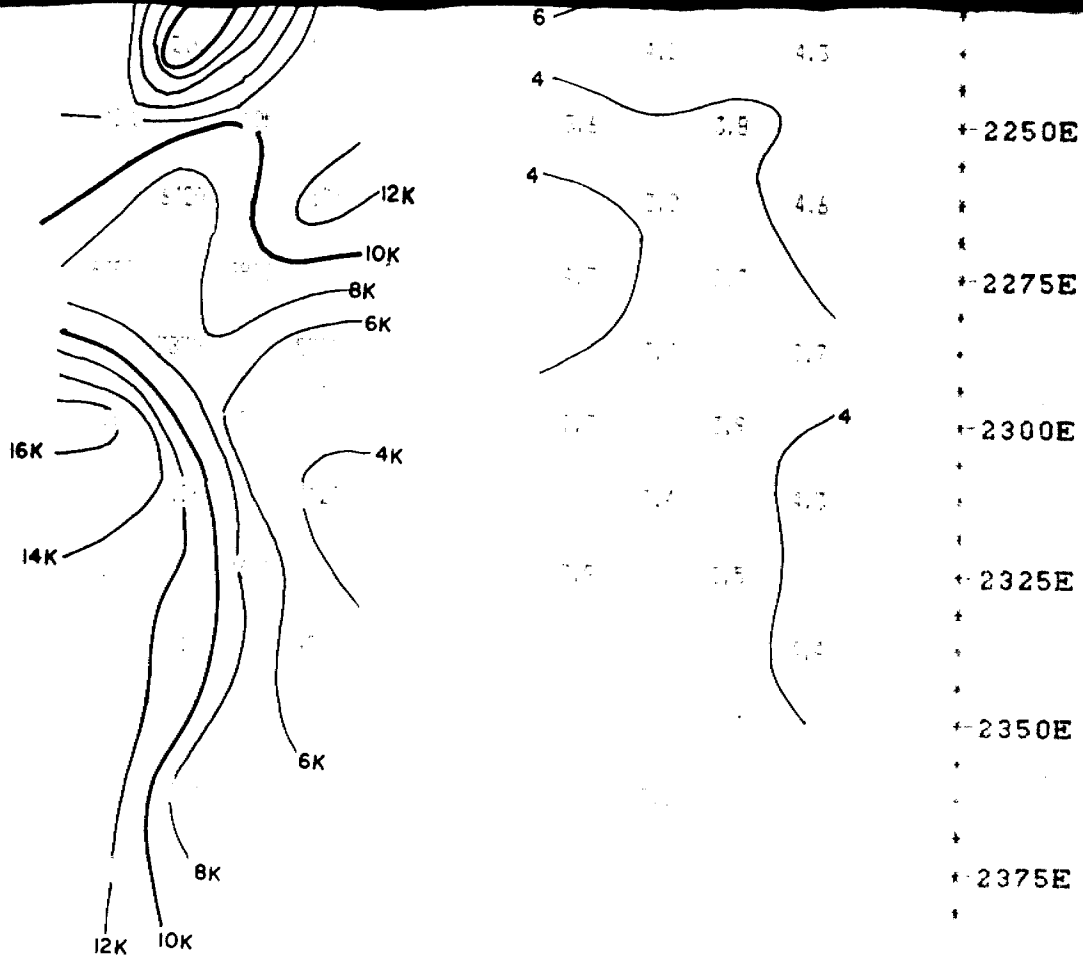


1650E
+
1675E
+
1700E
+
1725E
+
1750E
+
1775E
+
1800E
+
1825E
+
1850E
+
1875E
+
1900E
+
1925E
+
1950E



+1875E
 +1900E
 +1925E
 +1950E
 +1975E
 +2000E
 +2025E
 +2050E
 +2075E
 +2100E
 +2125E
 +2150E
 +2175E
 +2200E
 +2225E
 +2250E
 +2275E
 +2300E
 +2325E
 +2350E

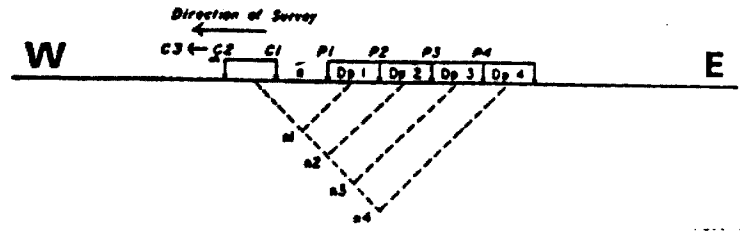




Geophysical Survey of the
 area of the ...

Geophysical Survey of the
 area of the ...

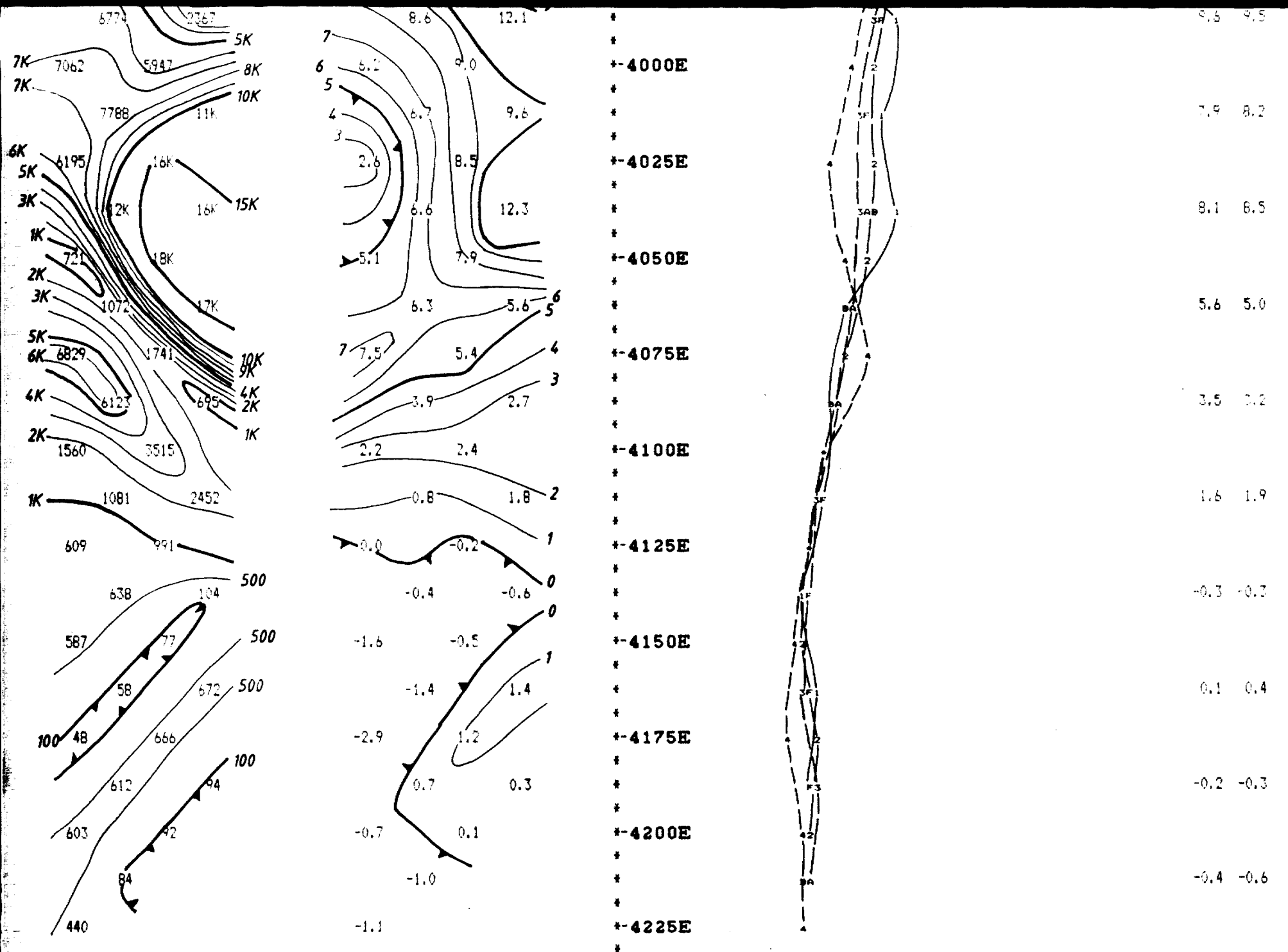
Receiver : GEINTEK IPK-11
 Transmitter : GEINTEK 100-3
 Pulse Type : 2 Sec on 1 Sec off
 Delay Time : 360 ms
 Integration Time : 78 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

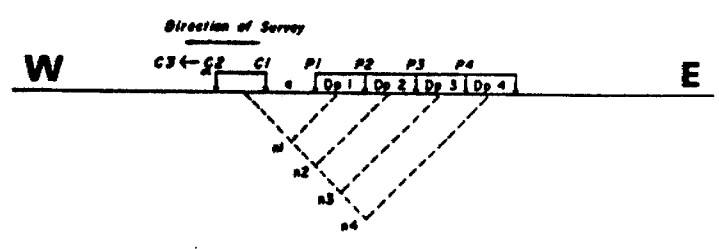
IP Pseudosections for N = 1 to 4
 Spacing = 25 M

LINE 5150 N



Property : MAISONVILLE GRID 7
 Client : GLEN AUDEN RESOURCES LTD.

Date of Survey : 7/6/86
 Operator : CDJ
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX TSQ-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms
 Slice # 7 Plotted



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4

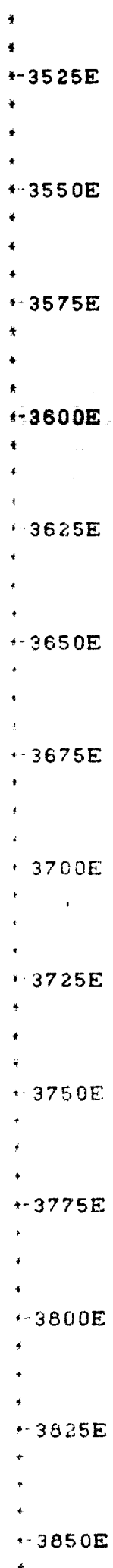
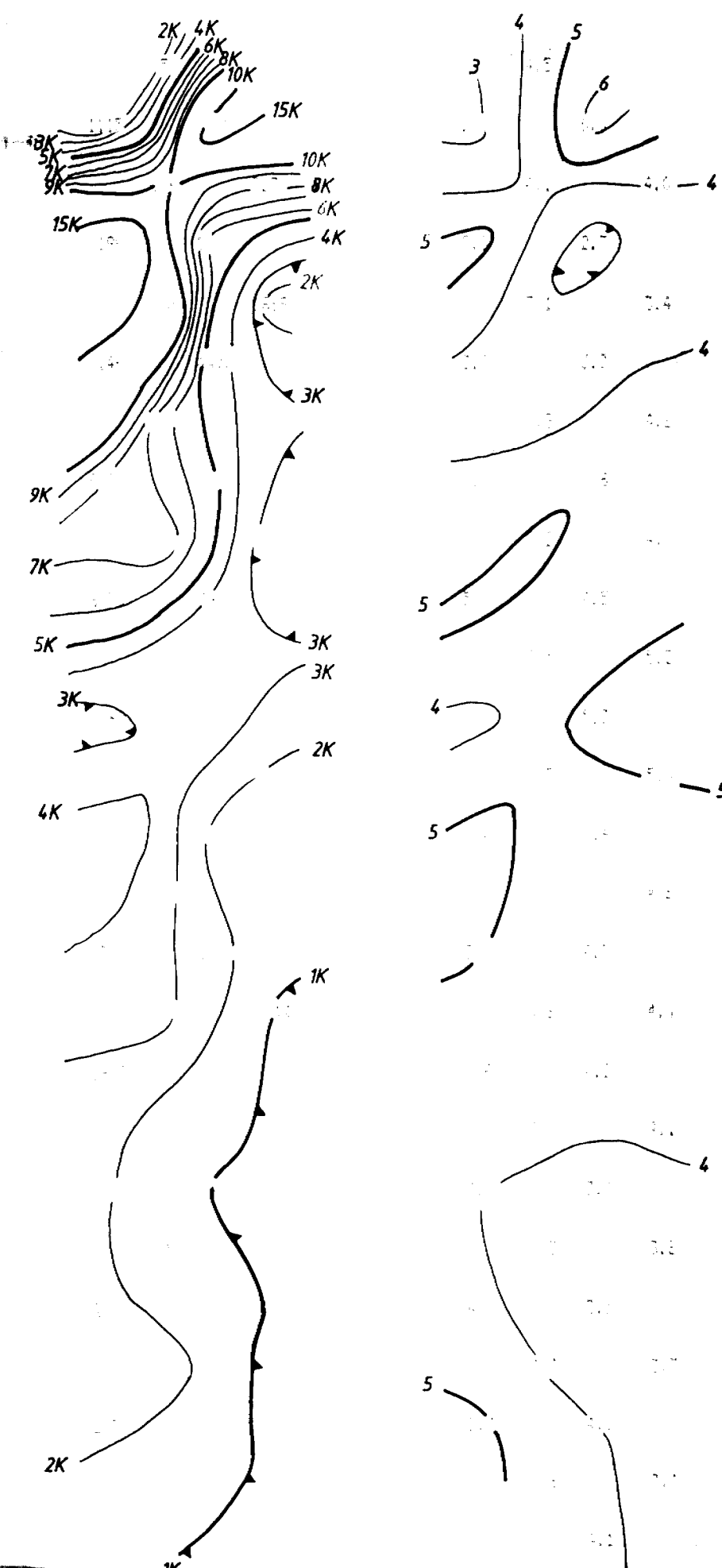
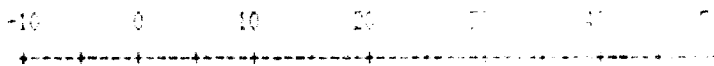
'a' Spacing = 25 M

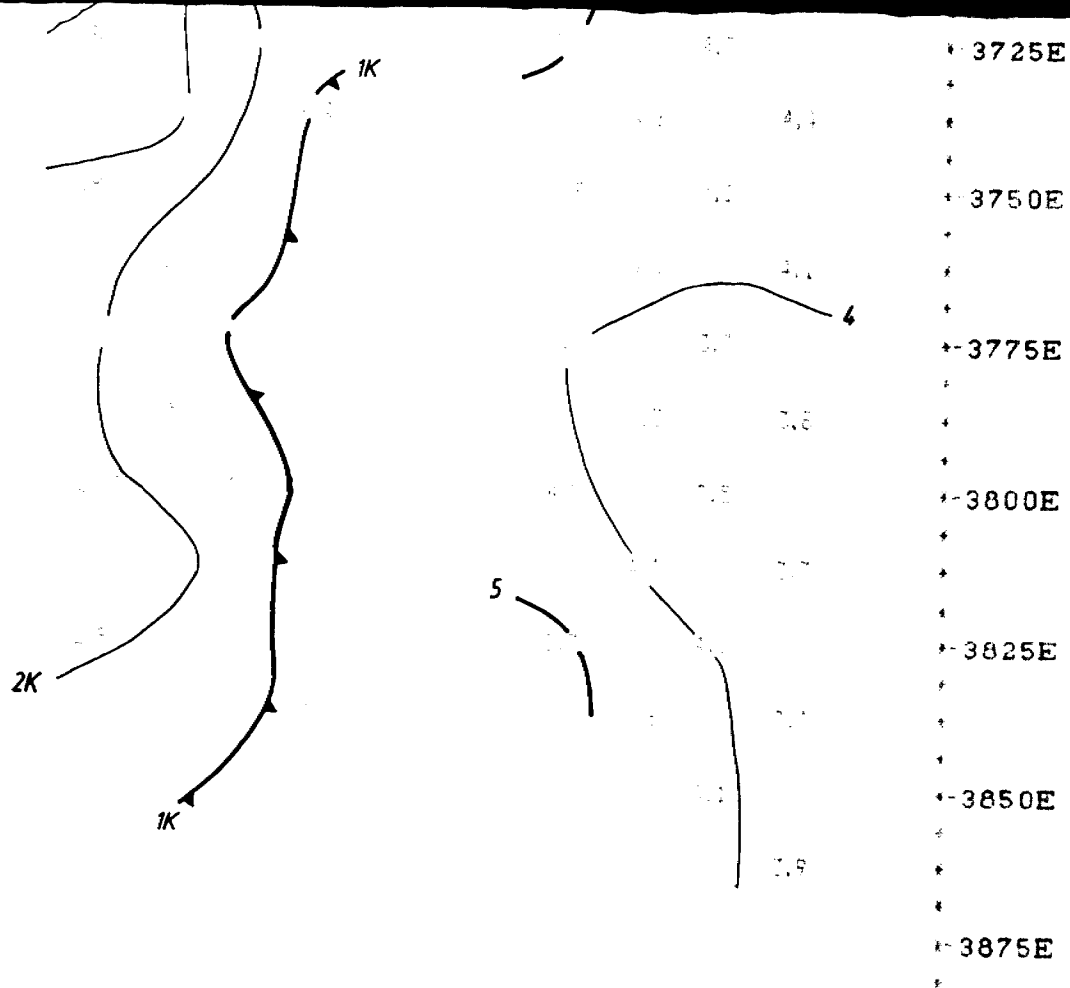
LINE 1575 N

SCALE = 1 : 1250

CHARGEABILITY PROFILE

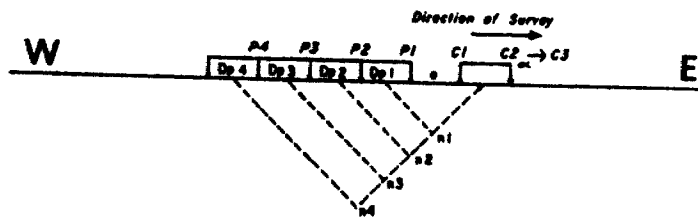
CHARGEABILITY
IN HOURS





Project: R.S. MIDDLETON EXPLORATION
 Client: R.S. MIDDLETON EXPLORATION LTD.

Instrument: GEOTECHNICAL
 Operation: 1007
 Electrode Array: DIPOLE - DIPOLE
 Mode: TIME DOMAIN
 Frequency: 100 Hz
 Time Interval: 10000
 Pole Separation: 1000
 Data Type: 1000
 Date: 10/10/77



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4

a Spacing = 25 M

LINE 1575 N

SCALE : 1 : 1250

RESISTIVITY
(ohm-metres)

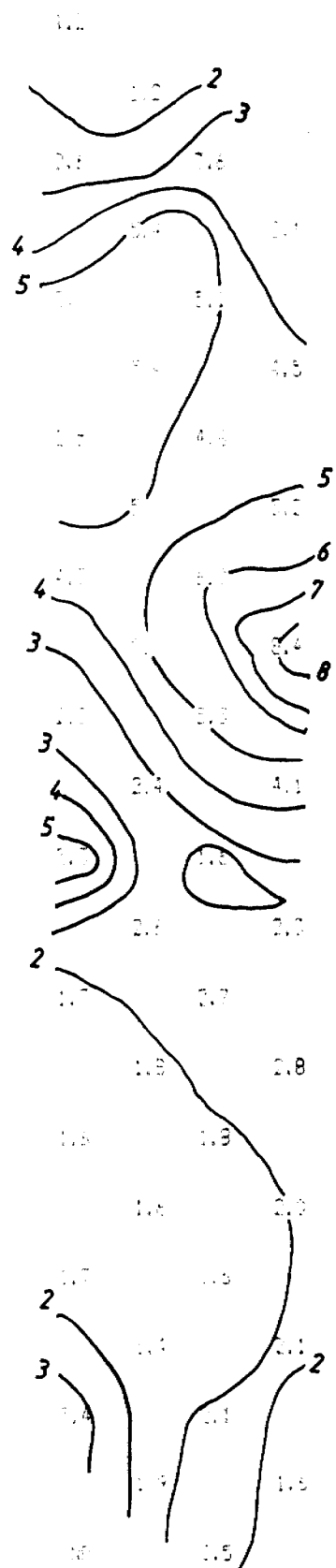
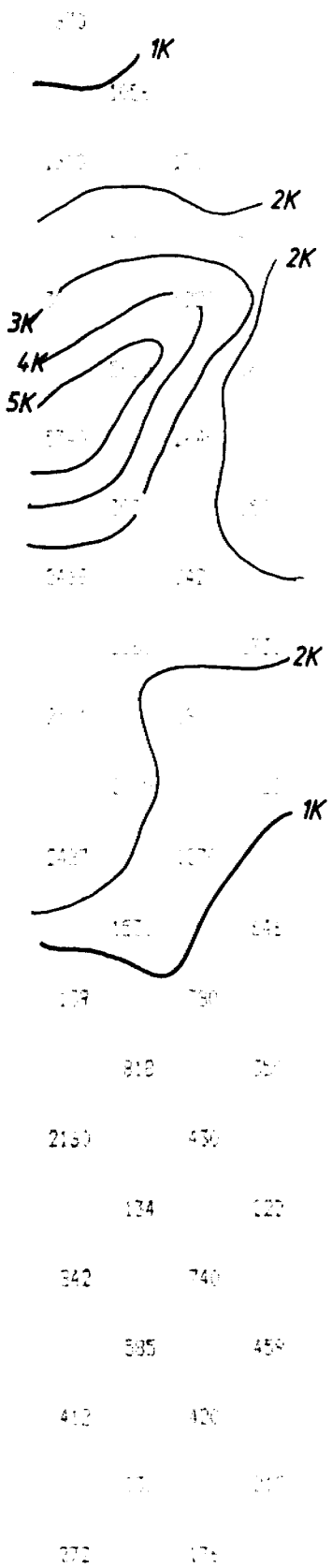
CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

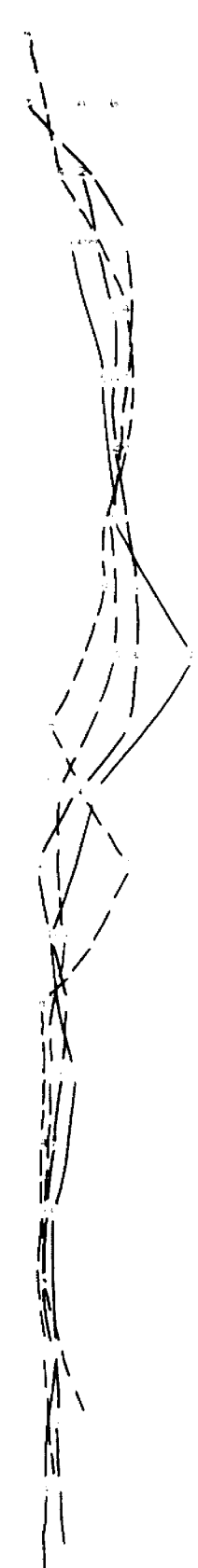
N 0 N 1
N 4 N 2

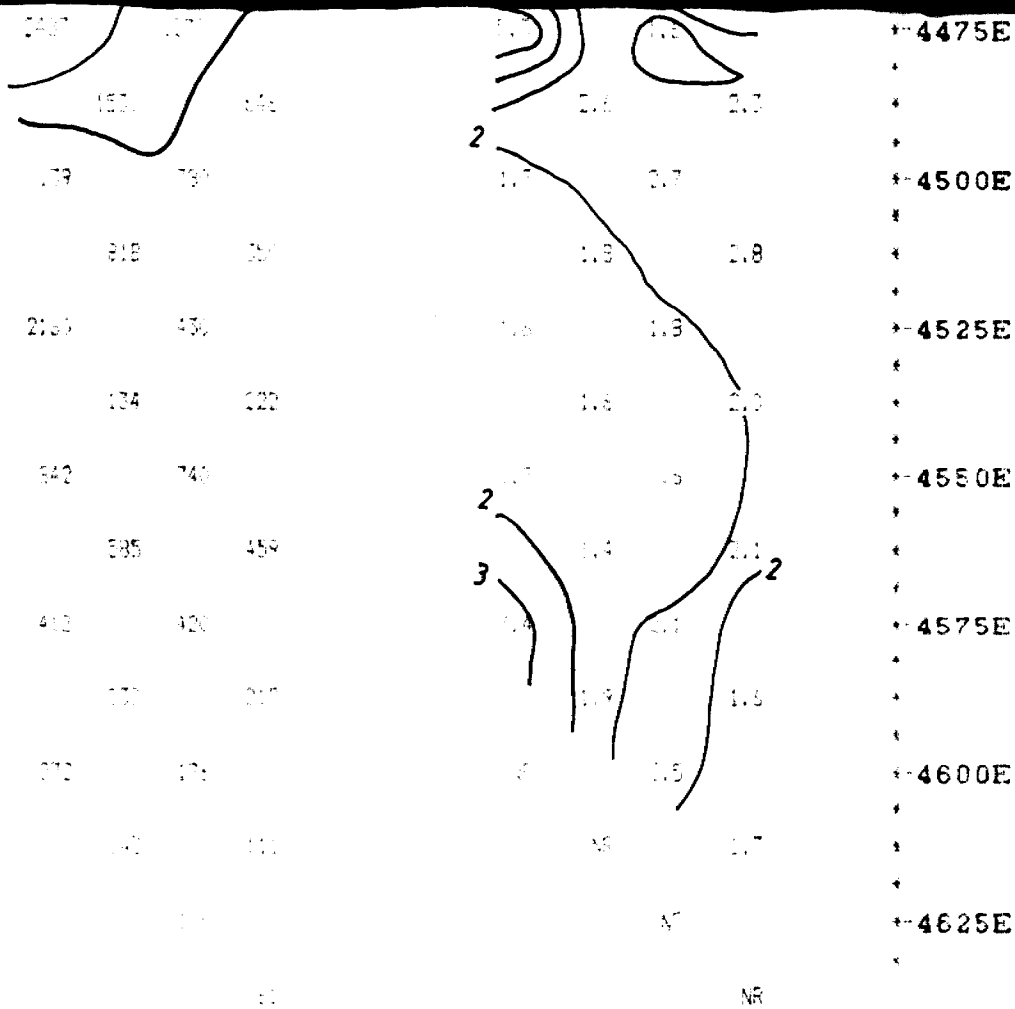
N 0 N 1
N 4 N 2

-10 -5 0 5 10 15 20



4300E
4325E
4350E
4375E
4400E
4425E
4450E
4475E
4500E
4525E
4550E
4575E
4600E





Property : MAYORVILLE TWP. GRID 7
Client : CLEAN OIL & GAS RESOURCES

Date of Survey : 07/27/84

Operator : CB

Electrode Array : DIPOLE - DIPOLE

Mode : TIME DOMAIN

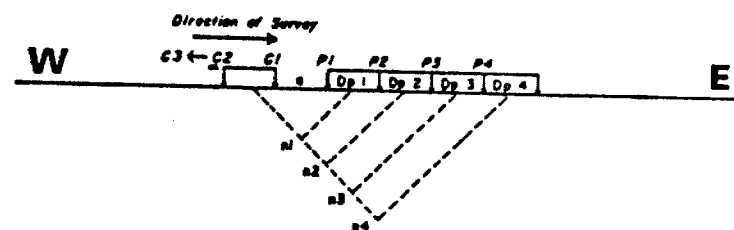
Receiver : SCINTREX 1PR-11

Transmitter : SCINTREX 1PU-S/250W

Pulse Train : 2 Sec on, 2 Sec off

Delay Time : 750 ms

Integration Time : 700 ms



R. S. MIDDLETON EXPLORATION
SERVICES INC.

IP Pseudosections for N = 1 to 4

a' Spacing = 25 M

LINE 1760 N

SCALE : 1 : 1250

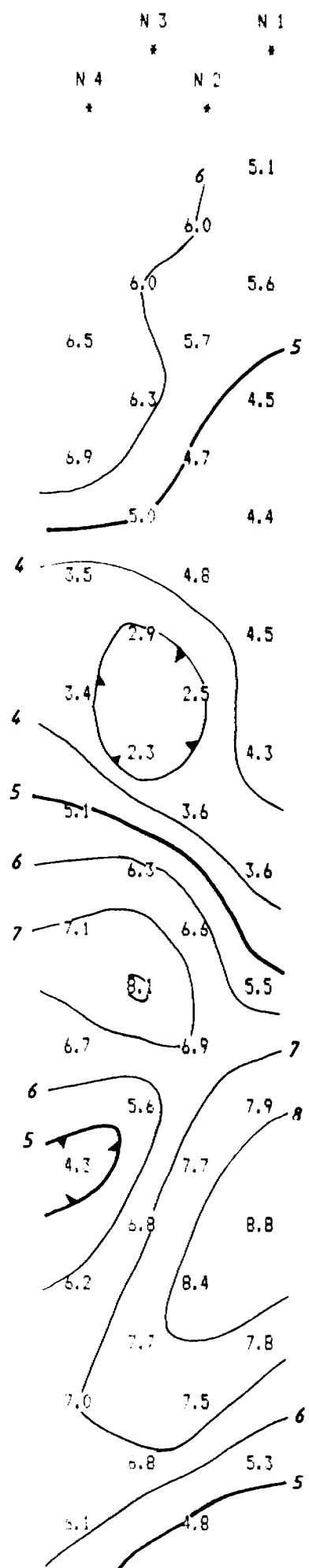
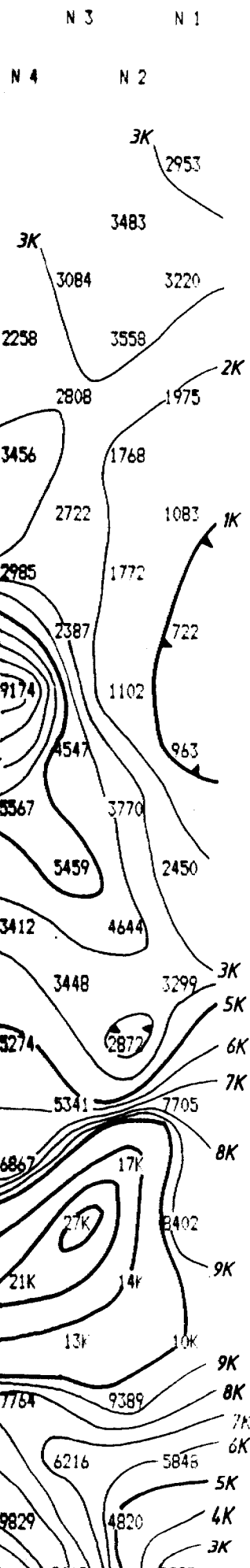
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

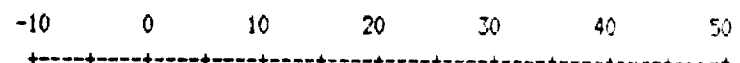
CHARGEABILITY PROFILE

RESISTIVITY
CHARGEABILITY

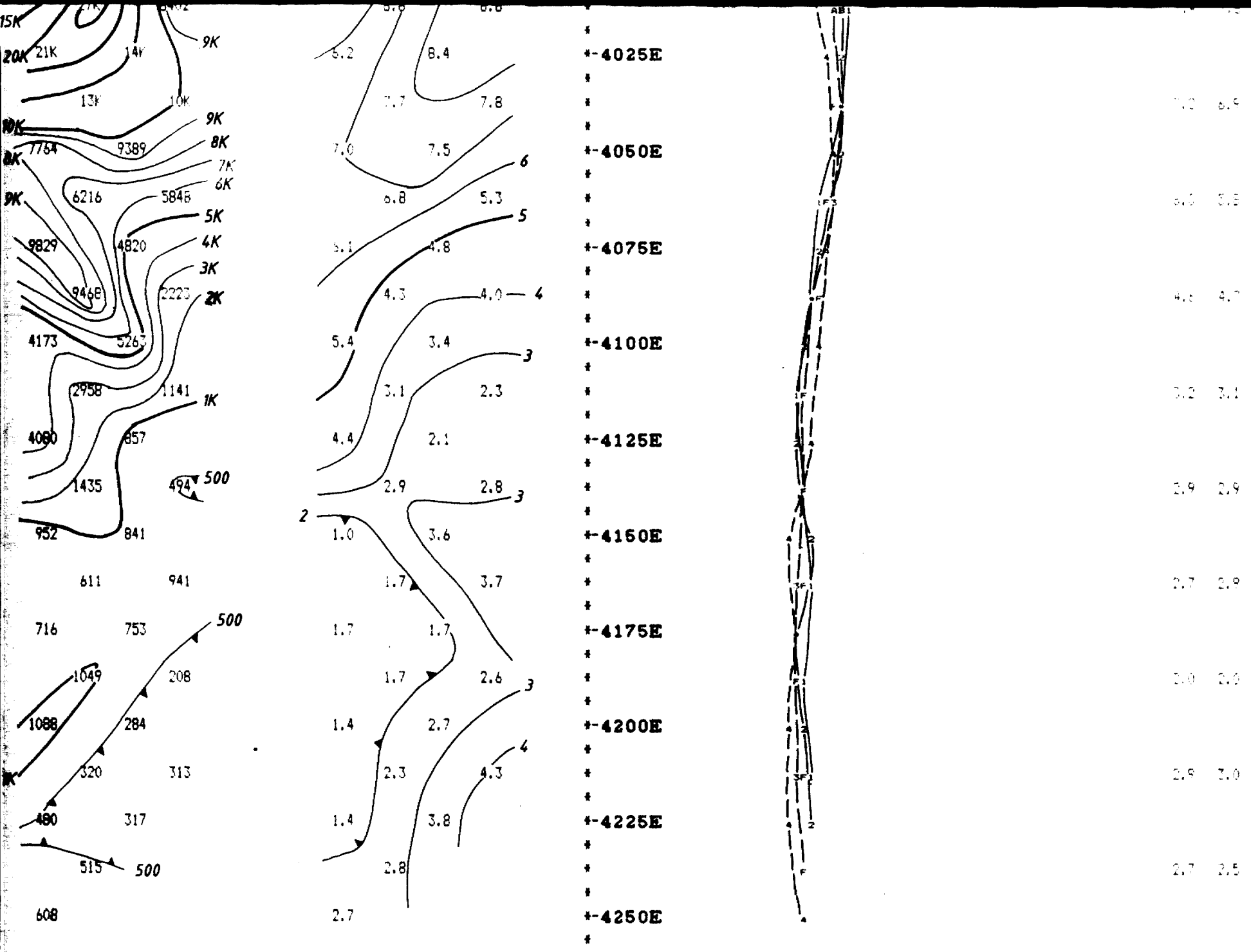
RESISTIVITY
CHARGEABILITY



- * ±-3800E
- * ±-3825E
- * ±-3850E
- * ±-3875E
- * ±-3900E
- * ±-3925E
- * ±-3950E
- * ±-3975E
- * ±-4000E
- * ±-4025E
- * ±-4050E
- * ±-4075E

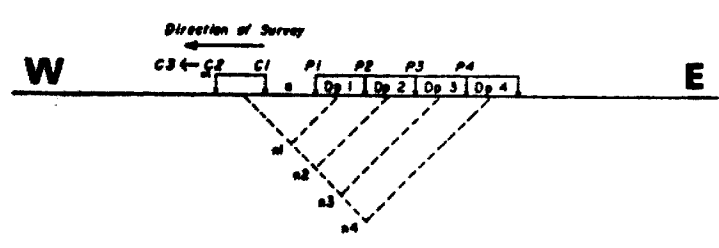


5.9	5.7
6.1	6.0
5.3	4.8
4.8	4.7
4.1	4.5
4.0	4.3
5.0	4.7
5.2	5.7
7.0	7.3
5.4	5.8
7.2	6.9
5.0	5.8



Property : MAISONVILLE GRID 7
 Client : GLEN AUDEN RESOURCES LTD.

Date of Survey : 7/6/86
 Operator : CGK
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX TSQ-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms
 Slice # 7 Plotted



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

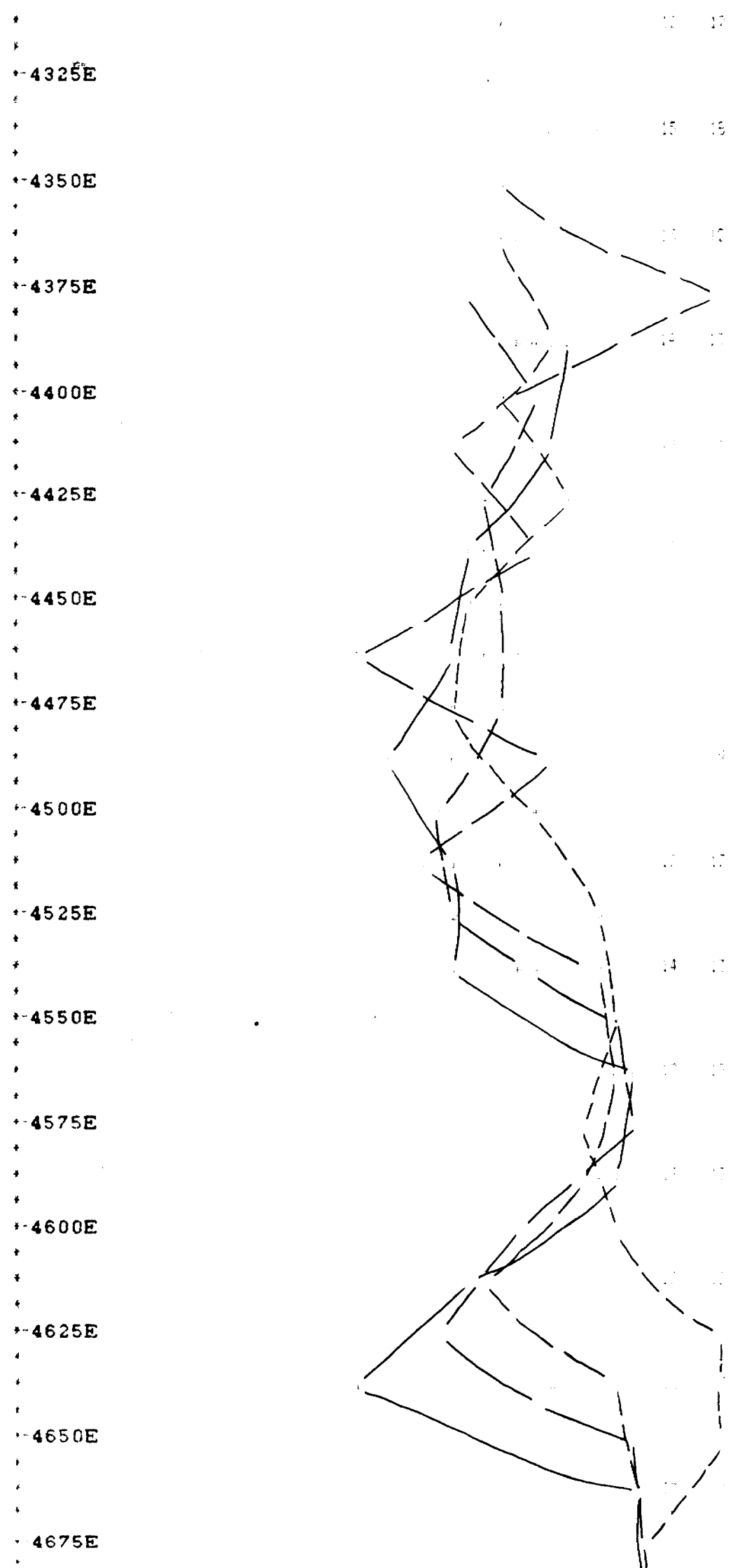
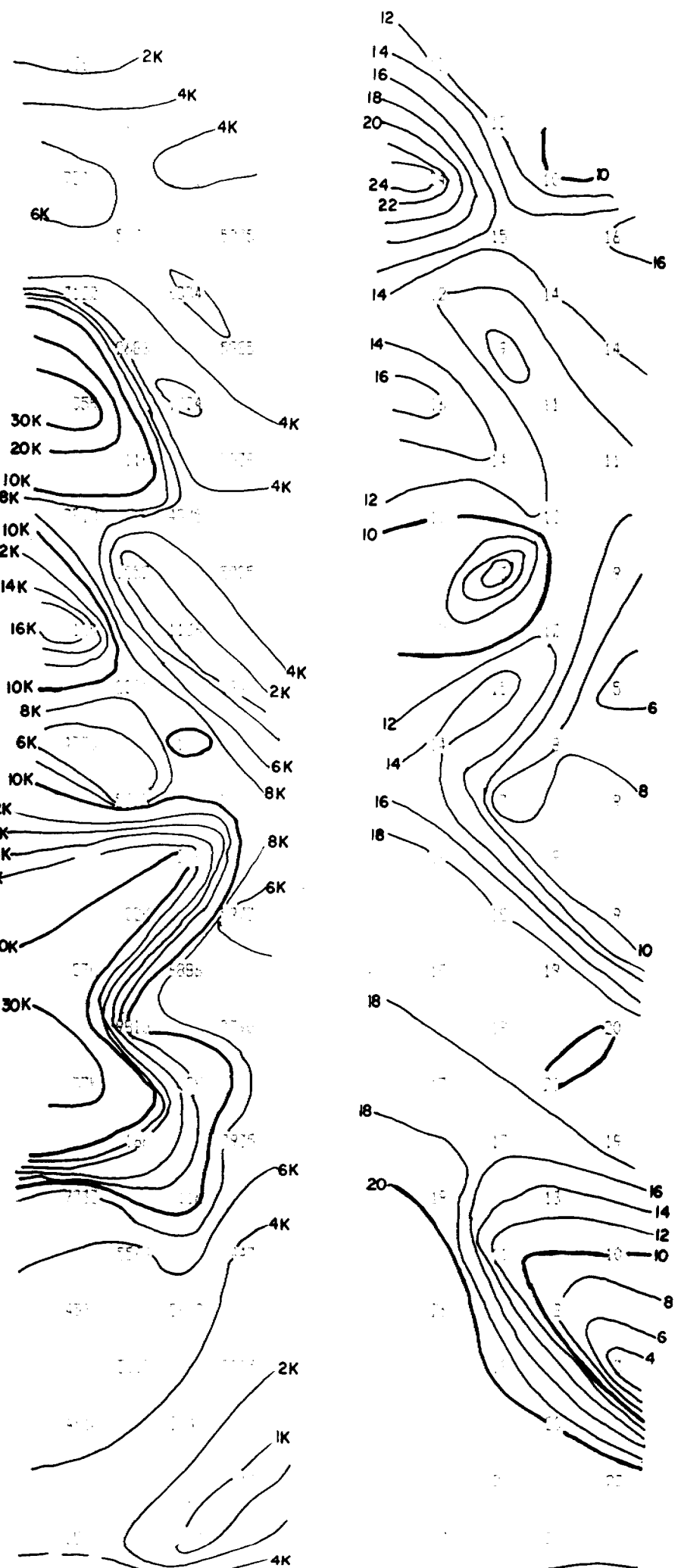
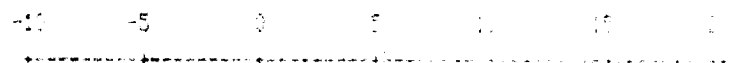
LINE 1825 N

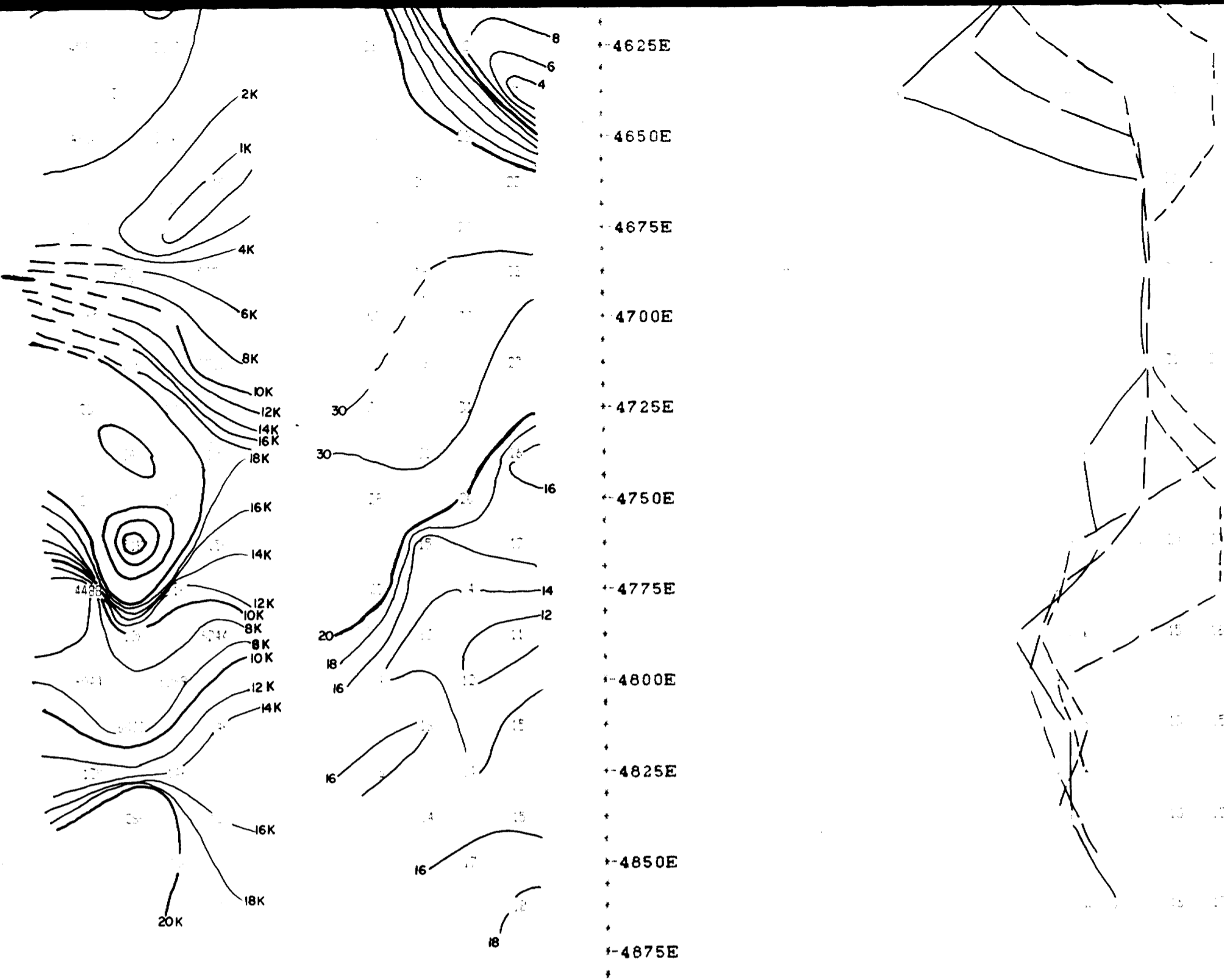
SCALE = 1:1250

RESISTIVITY
ohm-meters

CHARGEABILITY
milliseconds

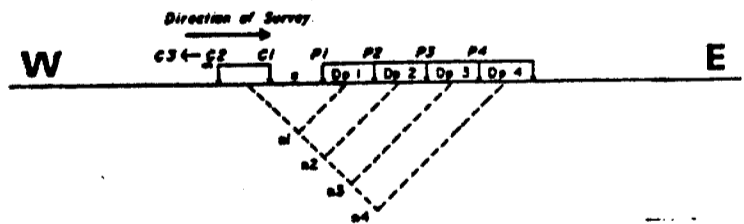
CHARGEABILITY PROFILE





Project: MAIRNVILLE TWP.
 Client: GLEN ARDEN RESOURCES

Date of Survey: 9/29/86
 Operator: DJM
 Electrode Array: DIPOLE - DIPOLE
 Mode: TIME DOMAIN
 Receiver: SCINTREX IPR-5
 Transmitter: SCINTREX IPC-8
 Pulse Time: 2 Sec on 2 Sec off
 Delay Time: 560 ms
 Integration Time: 280 ms



[Handwritten Signature]

 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 m

LINE 1950 N

SCALE : 1 : 1250

F
R
A
S
E
R

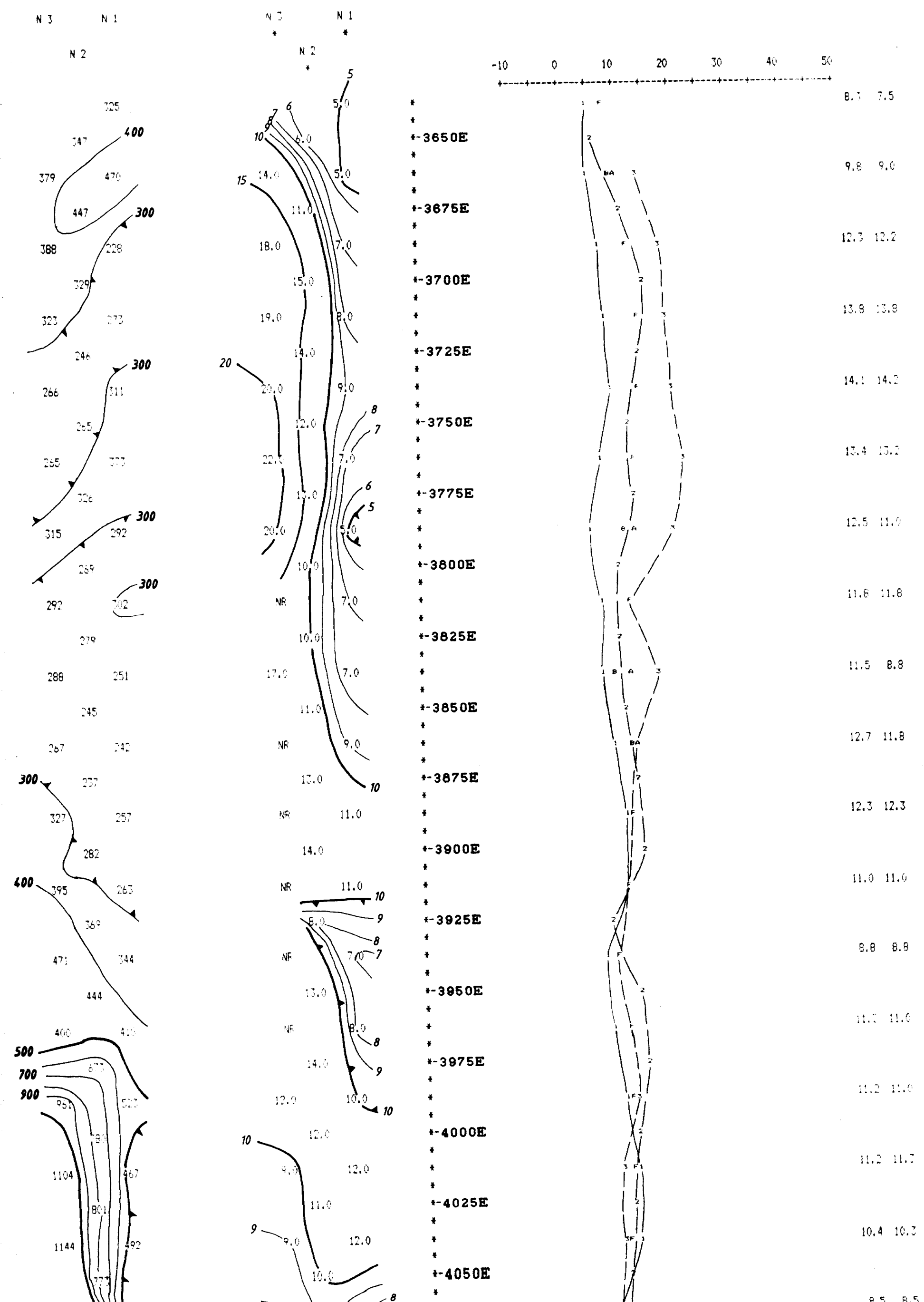
F
I
L
E
R

A
B

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

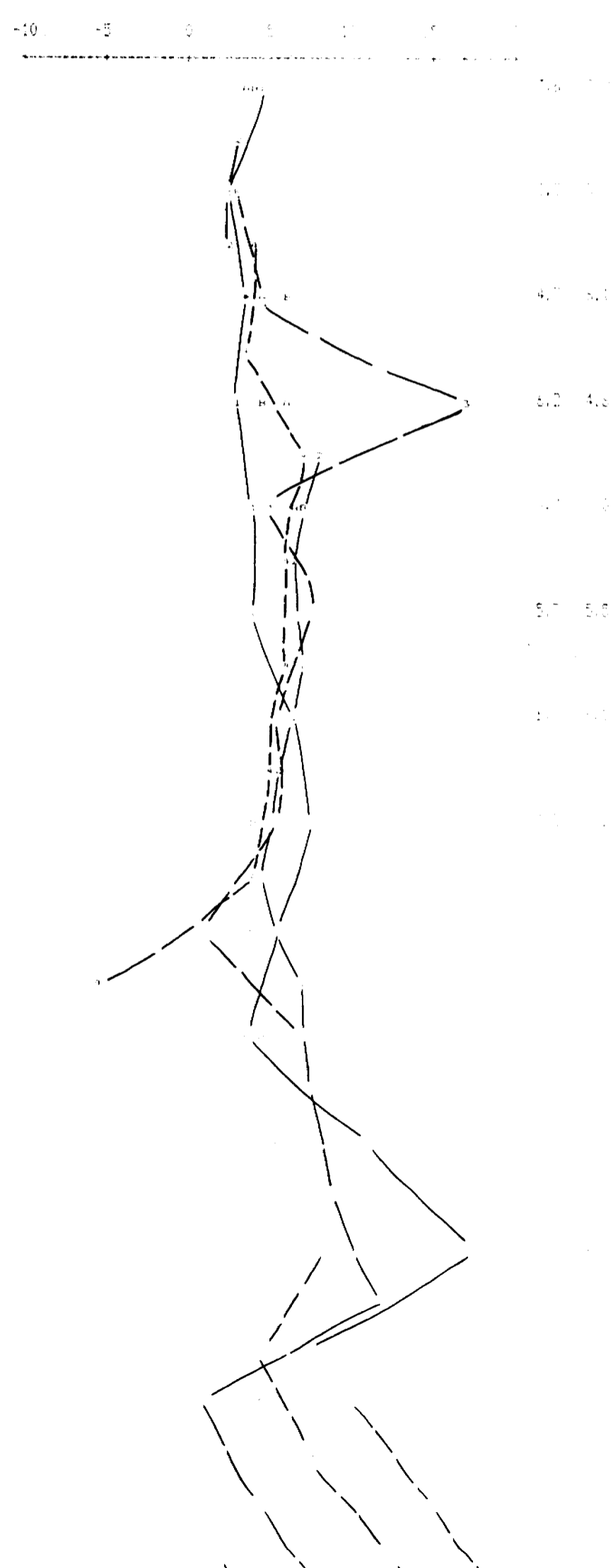
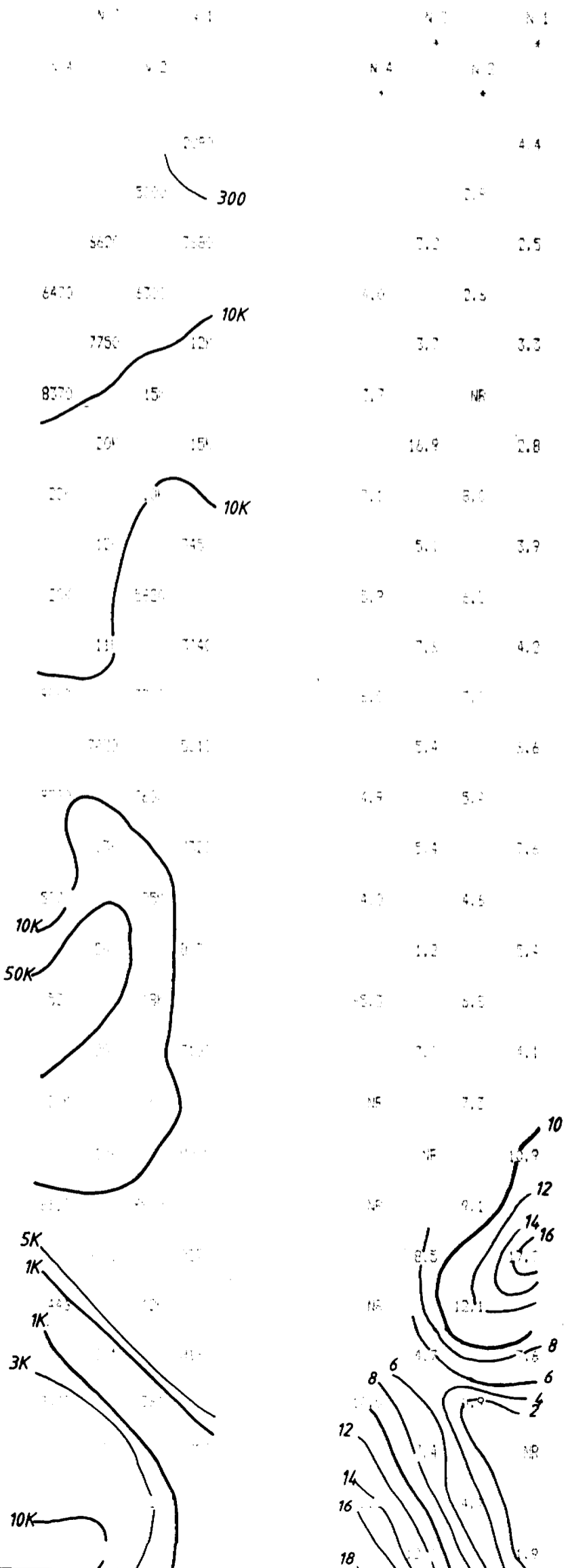


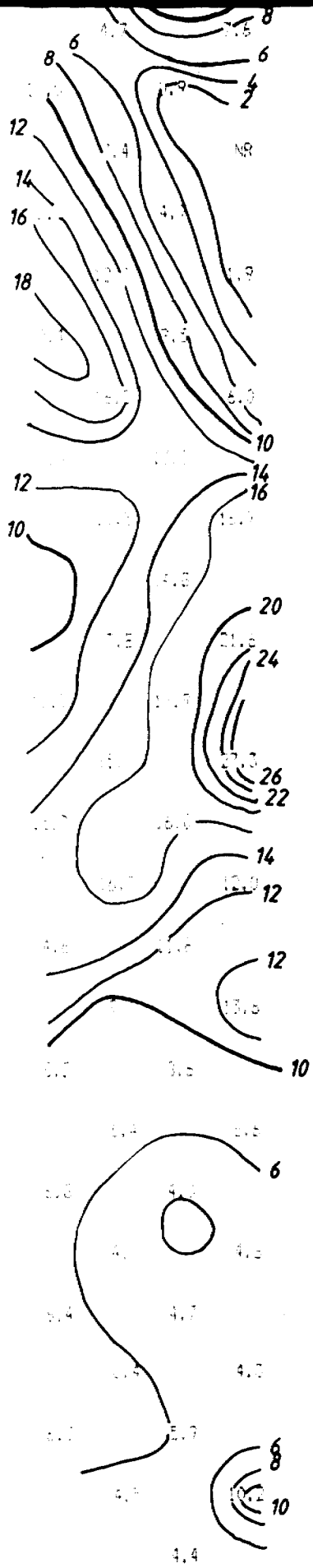
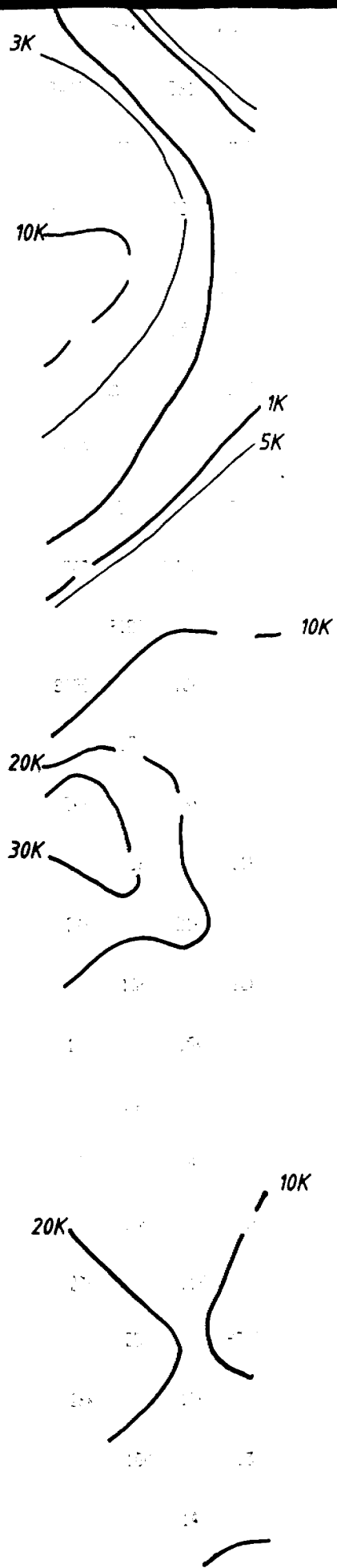
SCALE : 1 : 1250

RESISTIVITY
(ohm-meter)

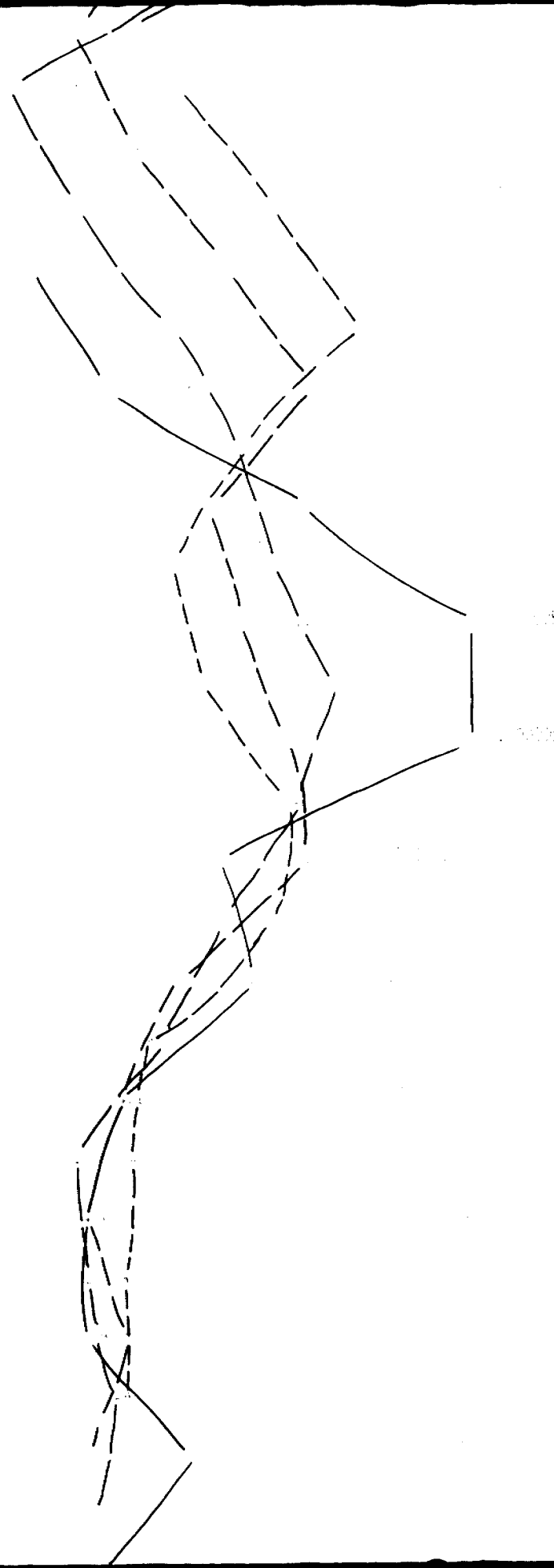
CHARGEABILITY
(milliseconds)

CHARGEABILITY (milliseconds)





*
 *
 * -4600E
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 *
 * -4625E
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 *
 * -4650E
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 * -4675E
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 * -4825E
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 * -4850E
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 *
 * -4875E
 *
 *
 * -4900E
 *



Property : MAISONVILLE TWP. GRID 7
Client : GLEN AUDEN RESOURCES

Date of Survey : 6/8/86

Operator : CGK

Electrode Array : DIPOLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

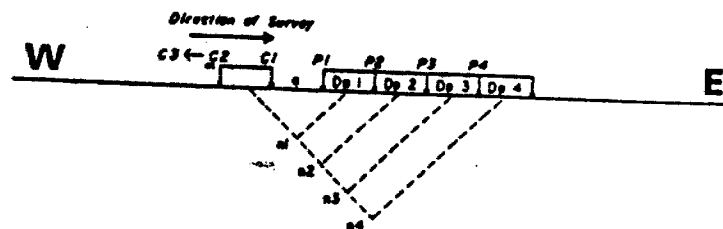
Transmitter : SCINTREX TS0-3

Pulse Time : 2 Sec on 2 Sec off

Delay Time : 360 ms

Integration Time : 780 ms

4850E
4875E
4900E
4925E



R. S. MIDDLETON EXPLORATION
SERVICES INC.

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 2150 N

SCALE : 1 : 1250

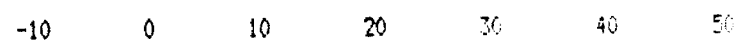
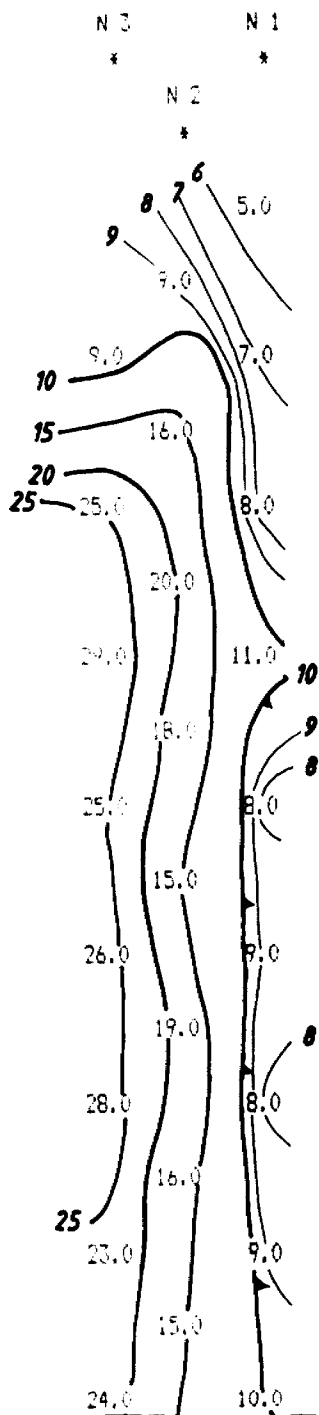
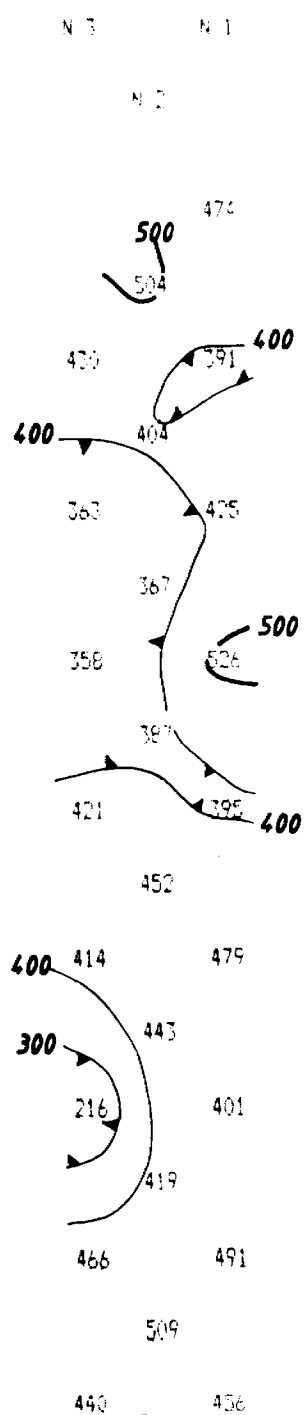
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

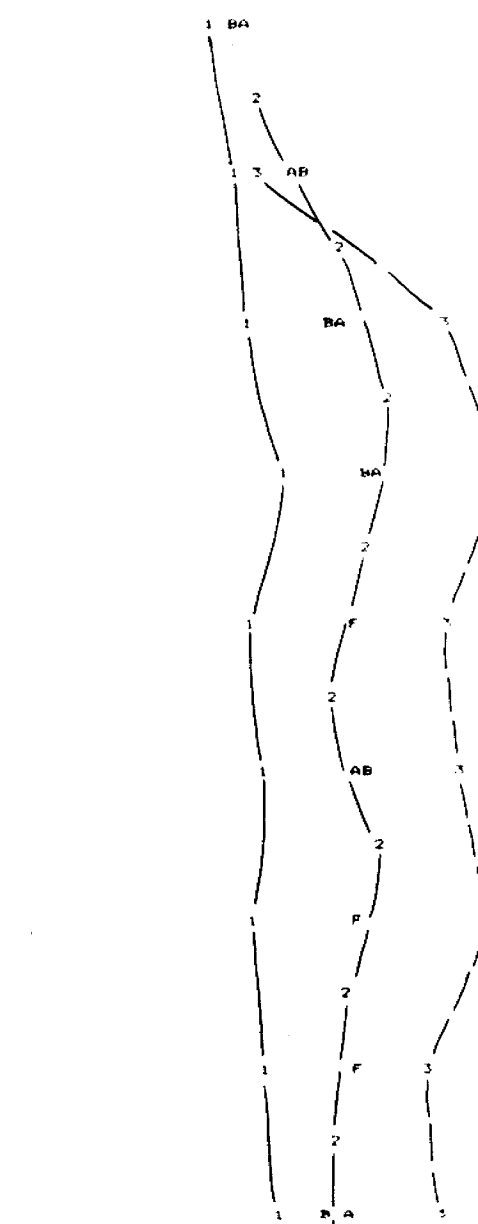
CHARGEABILITY PROFILE

F I
R I
A L
S E
R R

A B



*
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***-3675E**
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*
***-3700E**
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***-3725E**
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***-3750E**
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***-3775E**
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*
***-3800E**
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***-3825E**
*
*
***-3850E**
*
*



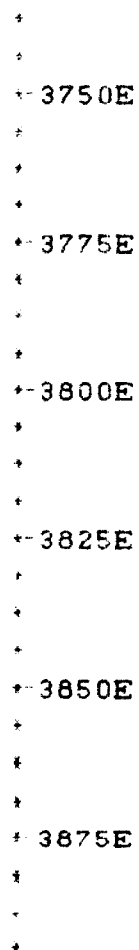
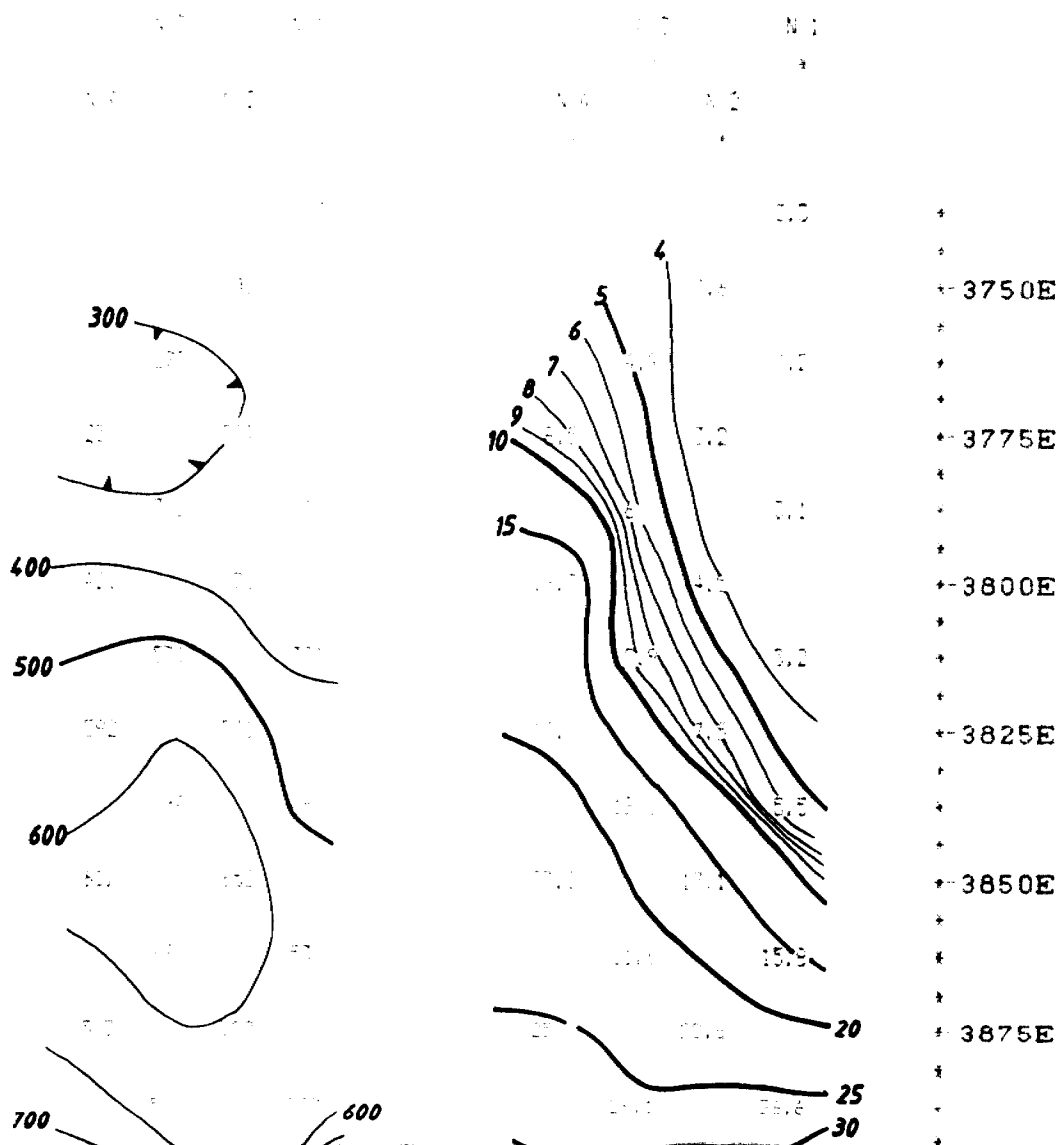
7.7 7.0
12.2 12.8
15.7 15.0
18.8 18.3
17.1 17.3
17.4 17.5
17.1 16.7
16.5 16.8
16.0 14.4

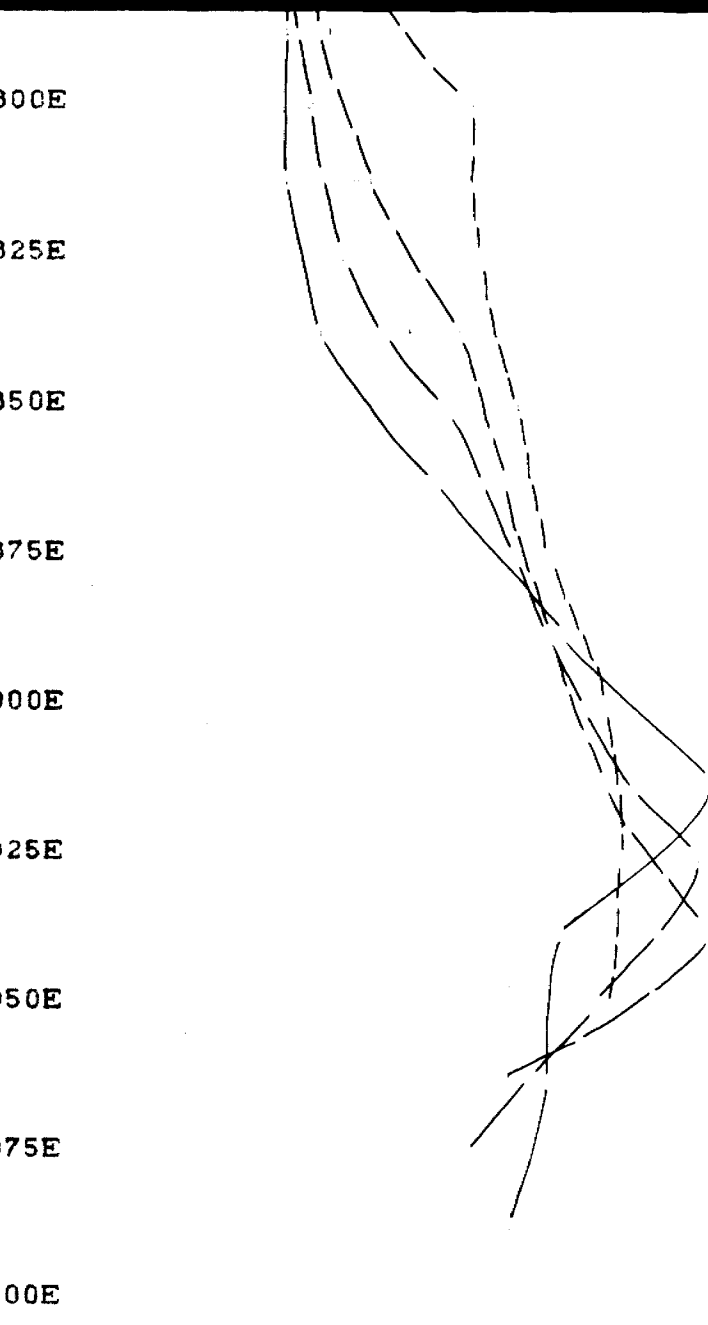
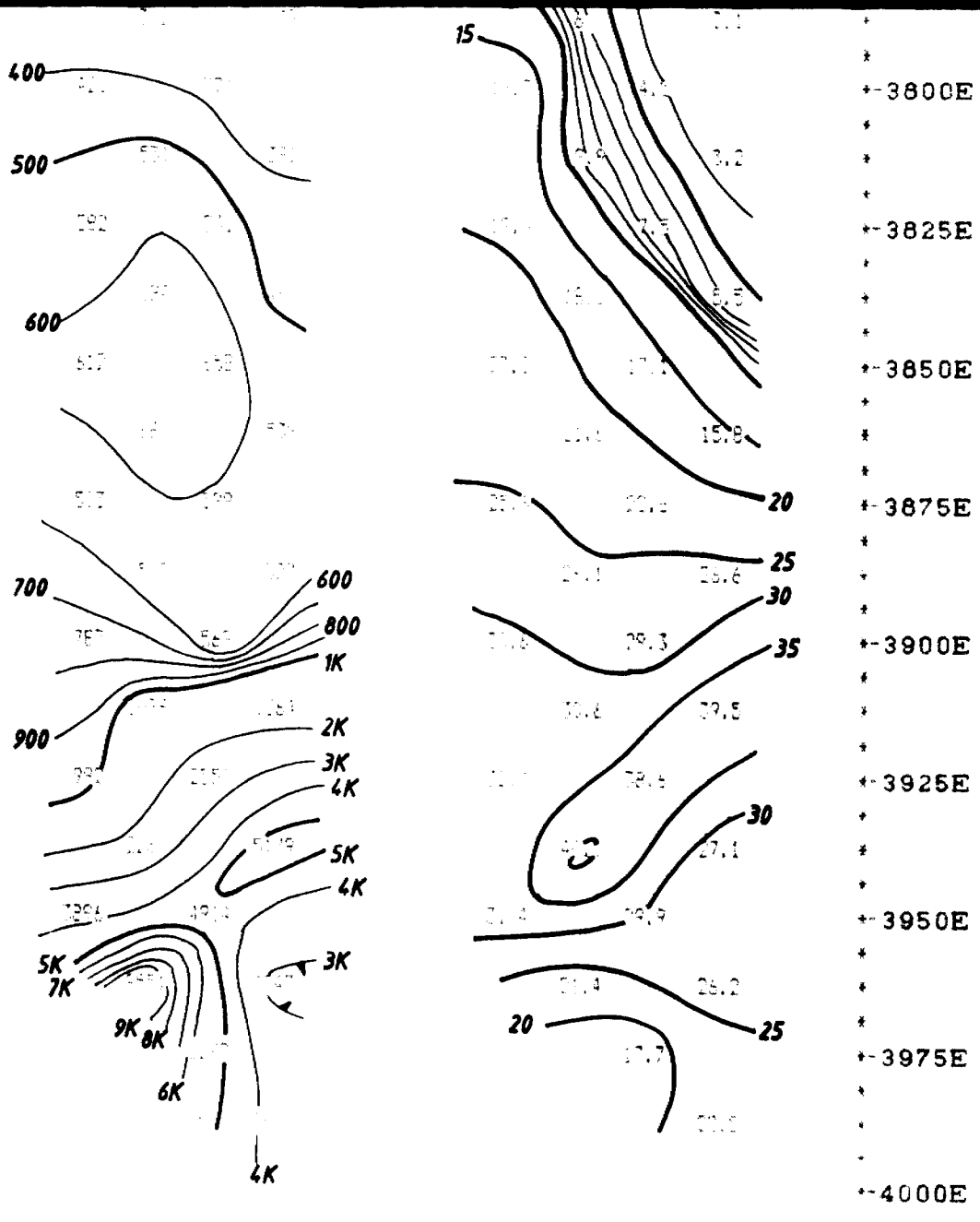
SCALE = 1:1250

RESISTIVITY
OHM METERS

DEPTH (feet)
(meters)

CHARGE (Coulombs)





Property : MAISONVILLE GRID 7
 Client : GLEN AUDEN RESOURCES LTD.

Date of Survey : 9/8/85
 Operator : CDJ
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX YSO-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms

Greg Hodge
 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4
 'a' Spacing = 25 M
 LINE 2350 N

SCALE : 1 : 1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

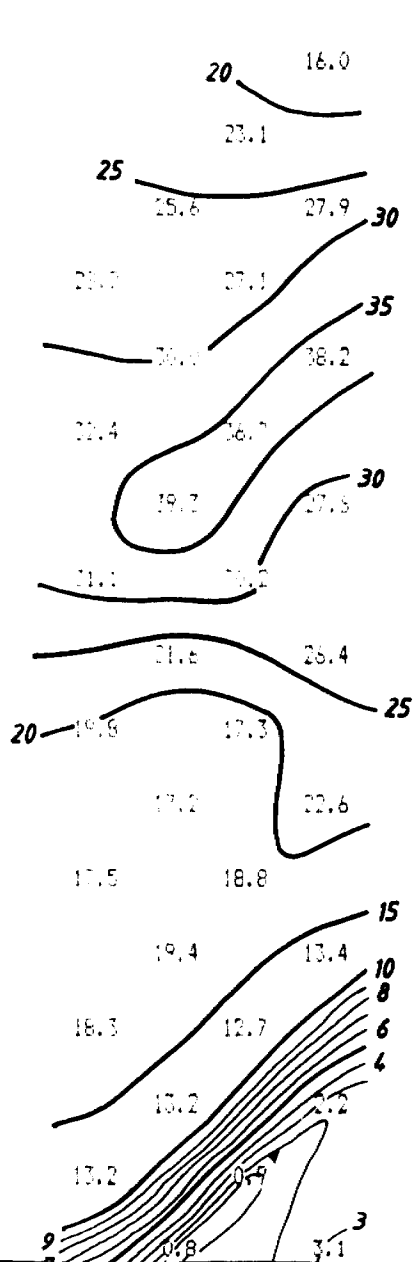
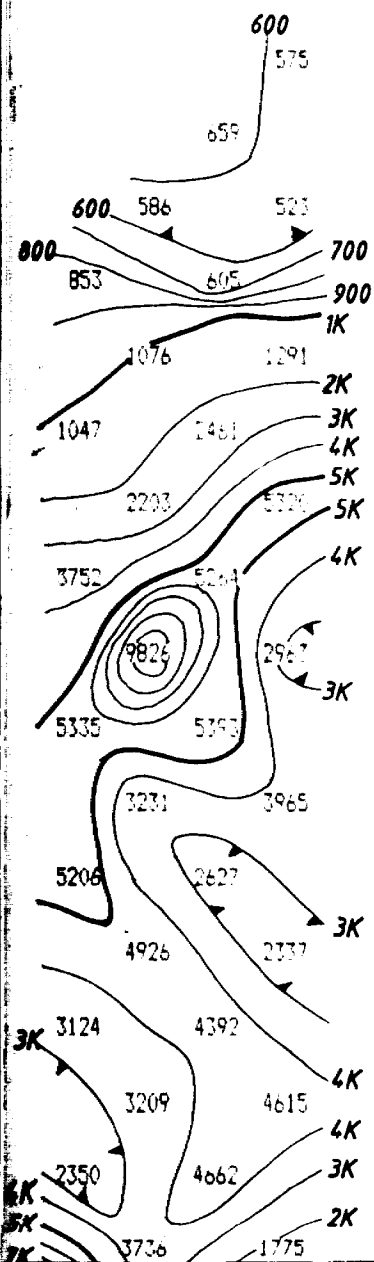
F F
P P
A A
S S
E E
R R

A B

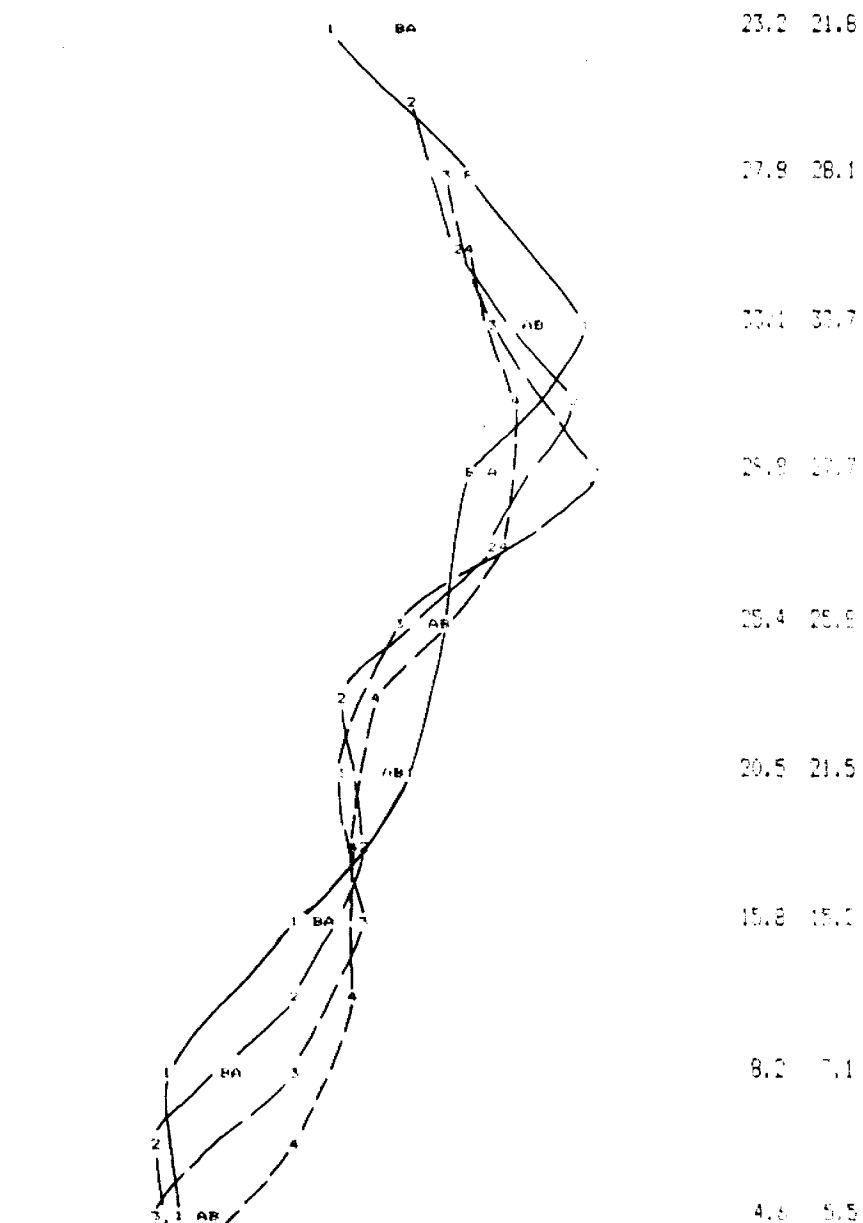
N 3 N 1
N 4 N 2

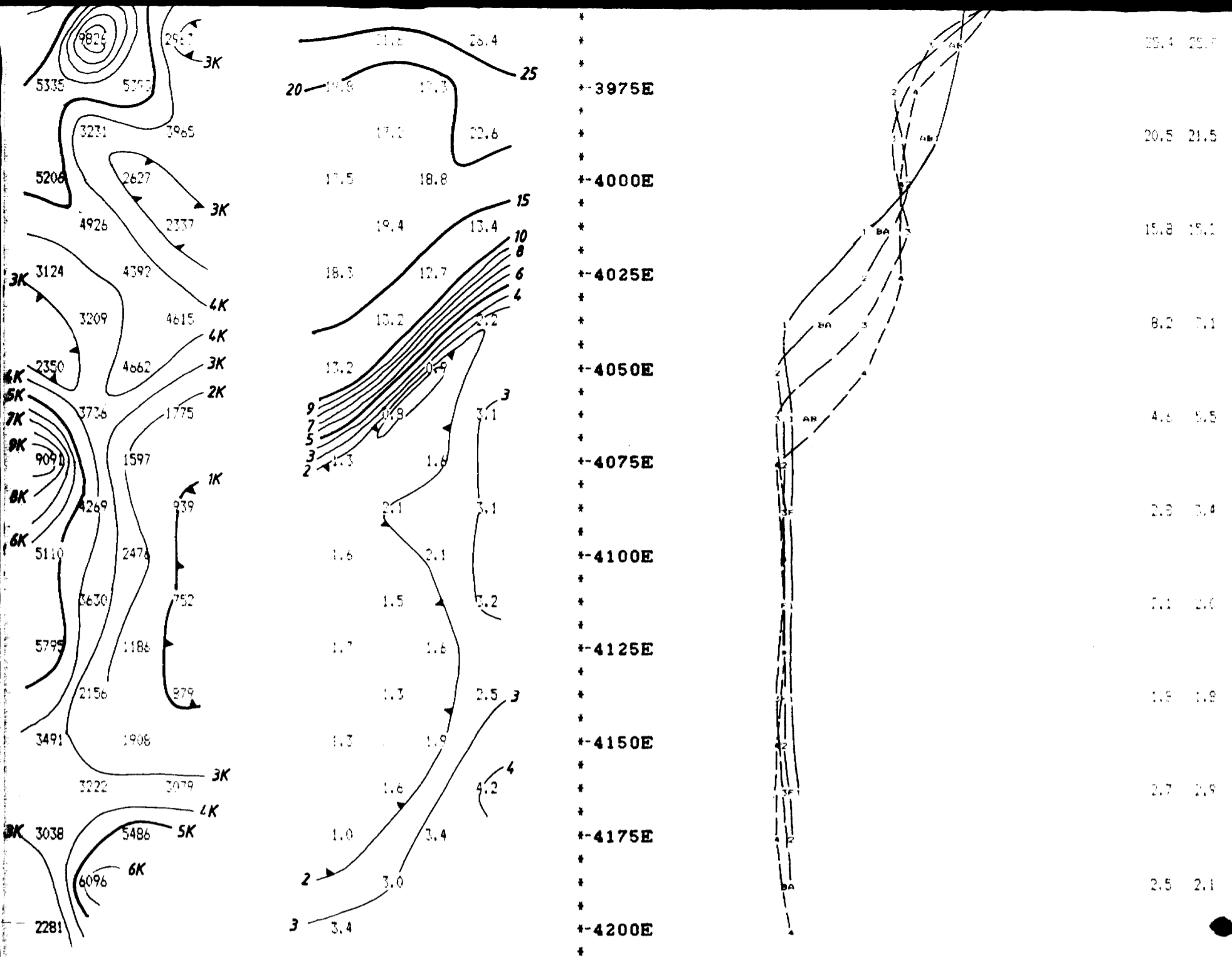
N 3 N 1
N 4 N 2

-10 0 10 20 30 40 50



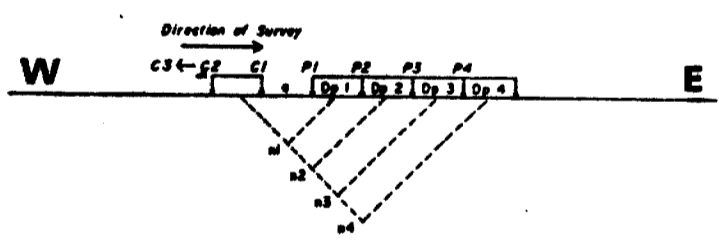
*
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* -3875E
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*
* -3900E
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* -3925E
*
*
* -3950E
*
*
* -3975E
*
*
* -4000E
*
*
* -4025E
*
*
* -4050E
*
*
*





Property : MAISONVILLE GRID 7
 Client : GLEN AUDEN RESOURCES LTD.

Date of Survey : 8/6/86
 Operator : CGK
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX TSQ-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms
 Slice # 7 Plotted



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4
 'a' Spacing = 25 M
 LINE 2350 N

SCALE : 1 : 1250

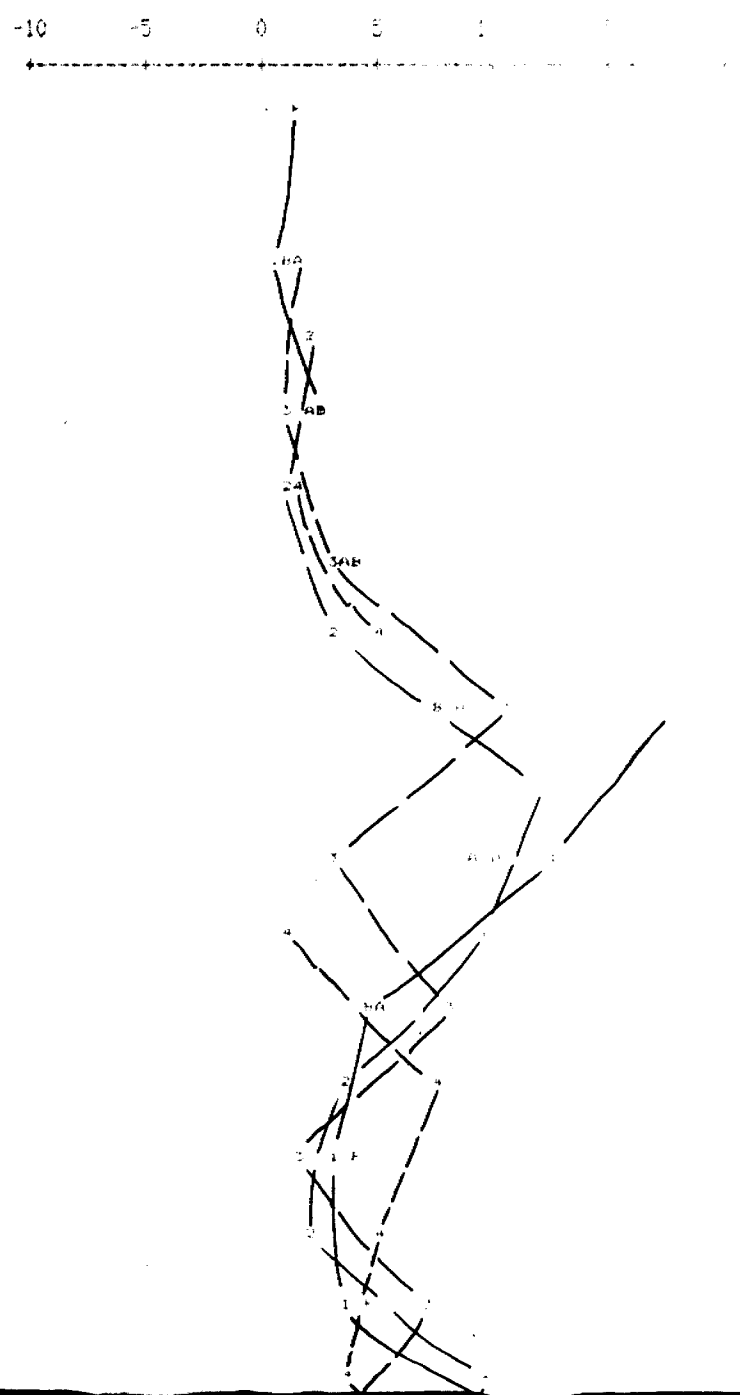
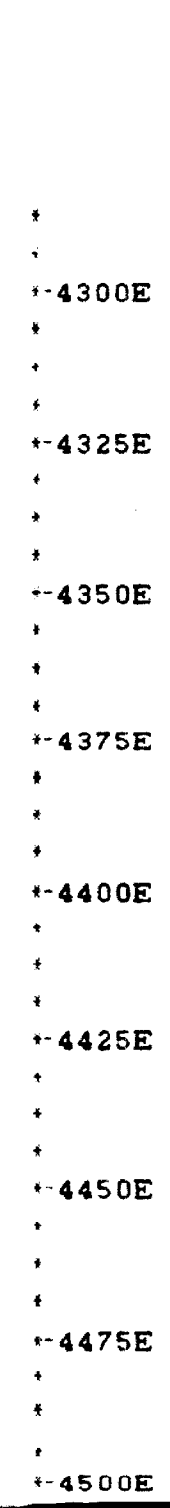
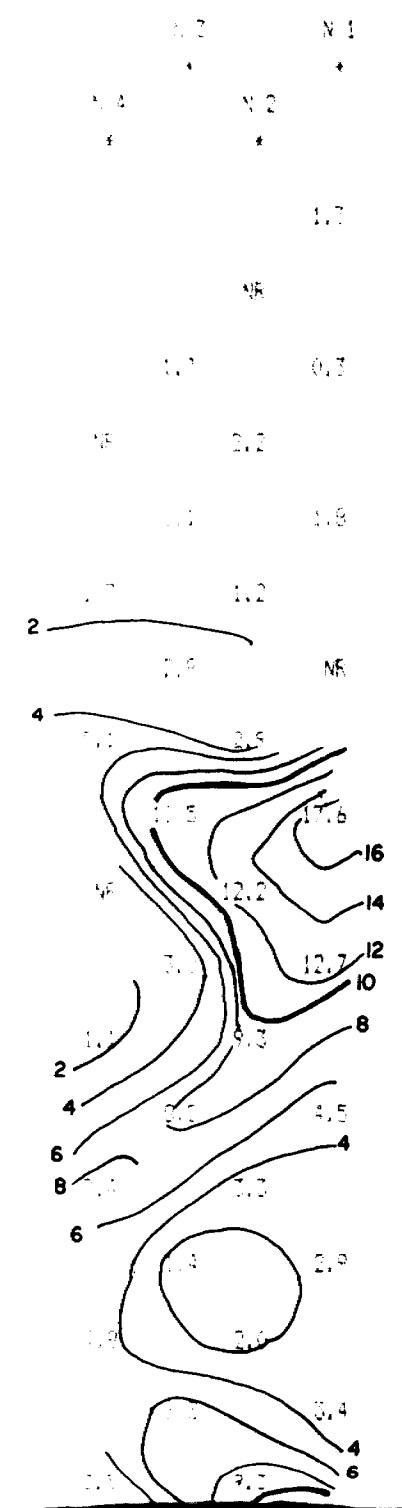
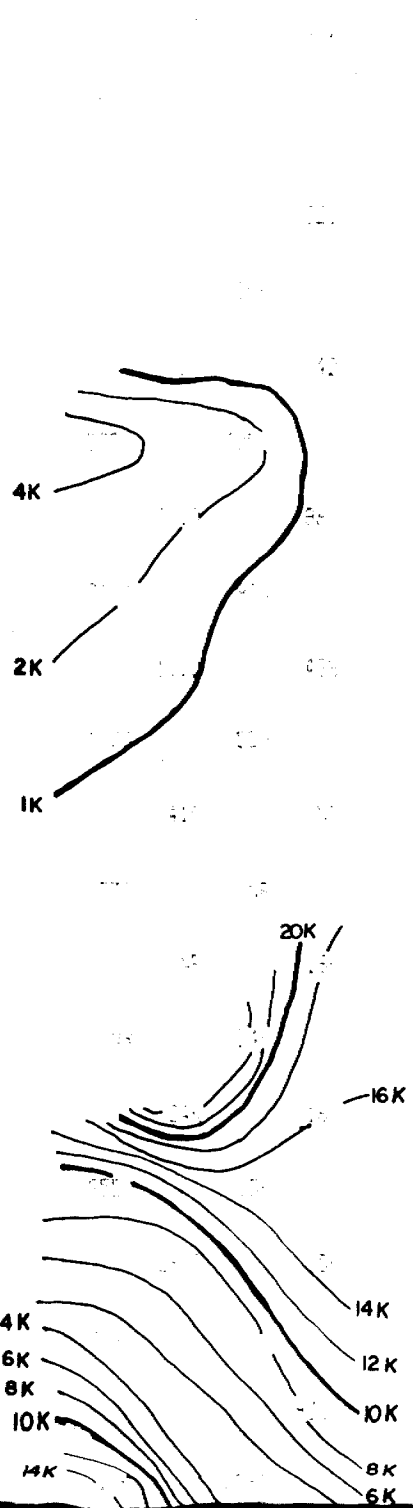
RESISTIVITY

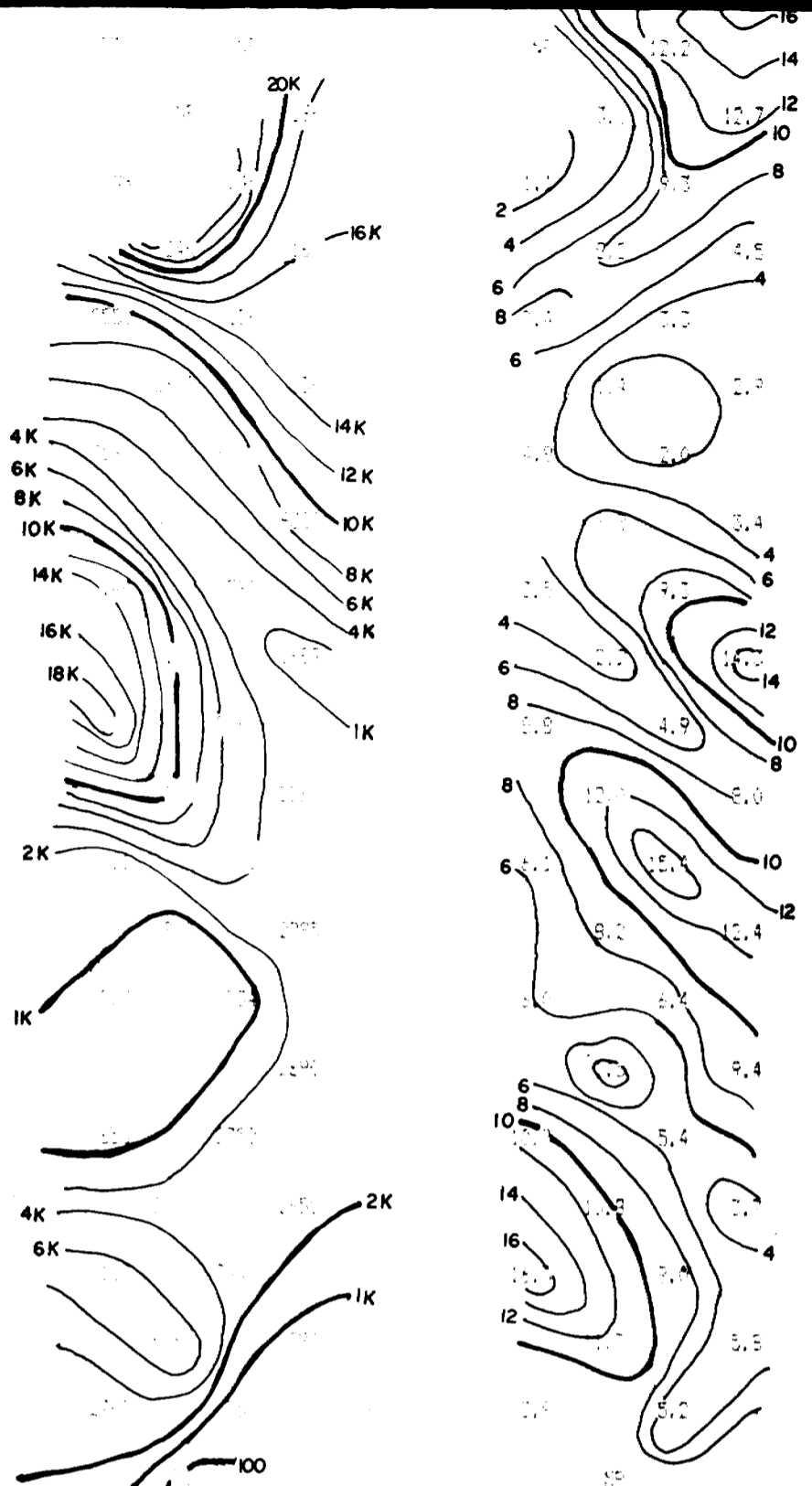
(ohm-meters)

CHARGEABILITY

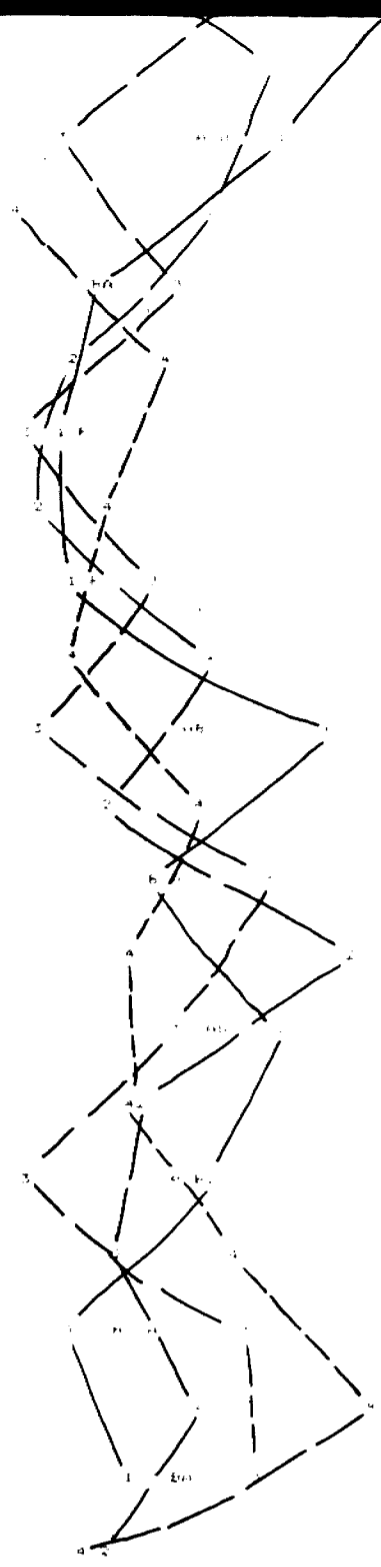
(milliseconds)

CHARGEABILITY PROFILE



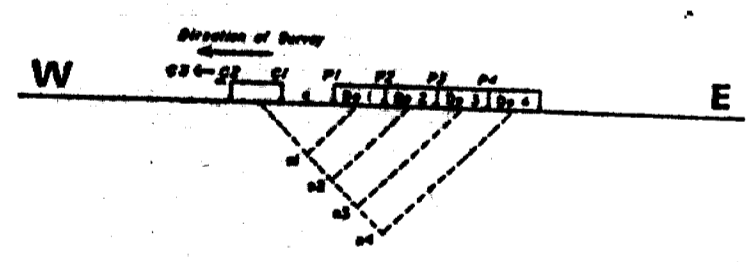


+4400E
 +4425E
 +4450E
 +4475E
 +4500E
 +4525E
 +4550E
 +4575E
 +4600E
 +4625E
 +4650E



Property : MAISONVILLE TWP.
 Client : GLEN AUDEN RESOURCES

Date of Survey : 6/8/86
 Operator : DBL
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IFR-11
 Transmitter : SCINTREX TSO-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms



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 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4

a Spacing = 25 M

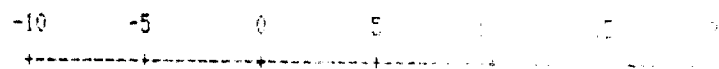
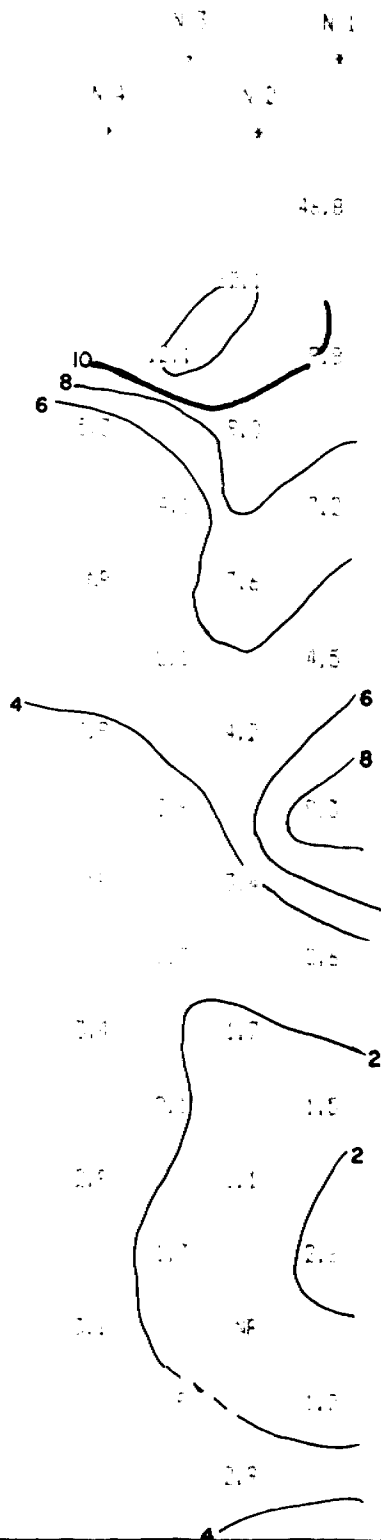
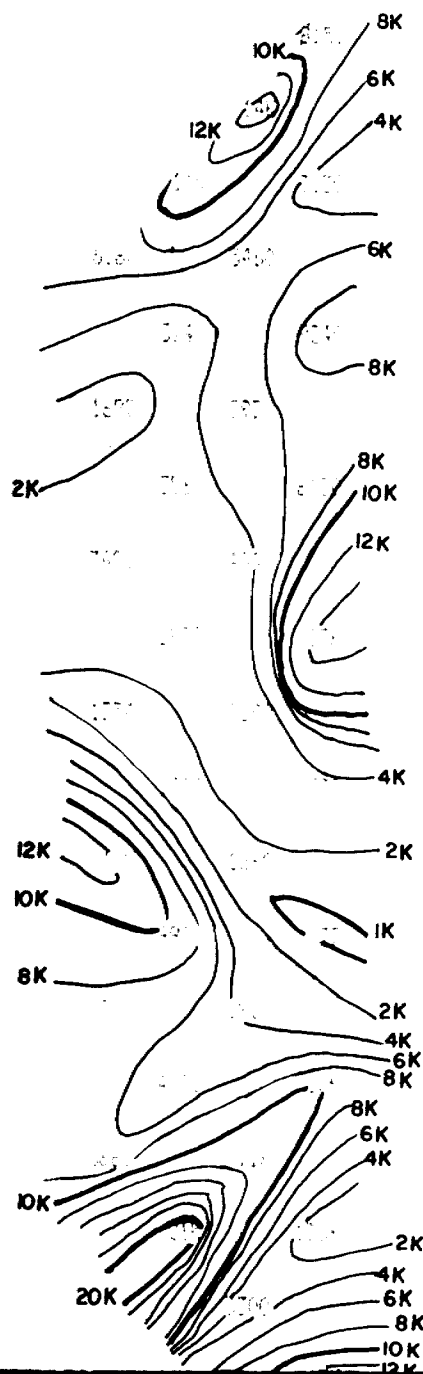
LINE 2350 N

SCALE : 1 : 1250

RESISTIVITY
(ohm metres)

CHARGEABILITY
(in milliseconds)

CHARGEABILITY PROFILE



4675E

4700E

4725E

4750E

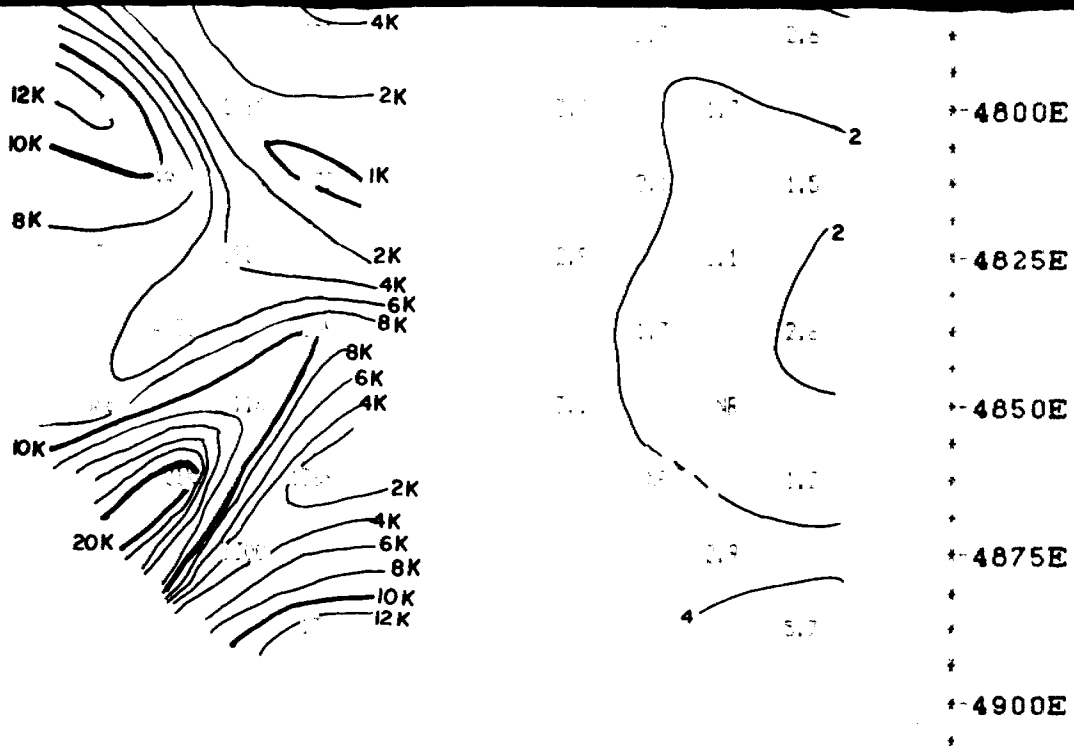
4775E

4800E

4825E

4850E

4875E



Property : MAISONVILLE TWP.
 Client : GLEN AUDER RESOURCES

Date of Survey : 1/9/84

Operator : CB

Electrode Array : DIPOLE - DIPOLE

Mode : TIME DOMAIN

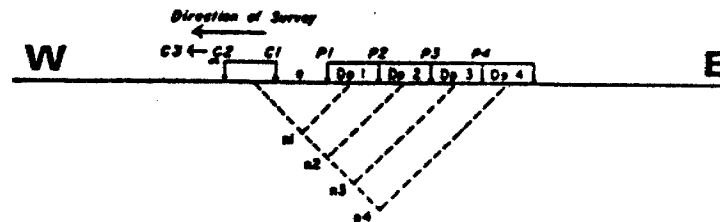
Receiver : SCINTREX IPR-11

Transmitter : SCINTREX ISO-3

Pulse Time : 2 Sec on 2 Sec off

Delay Time : 150 ms

Integration Time : 150 ms



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections - Lines 1 to 4

Electrode Spacing = 25 M

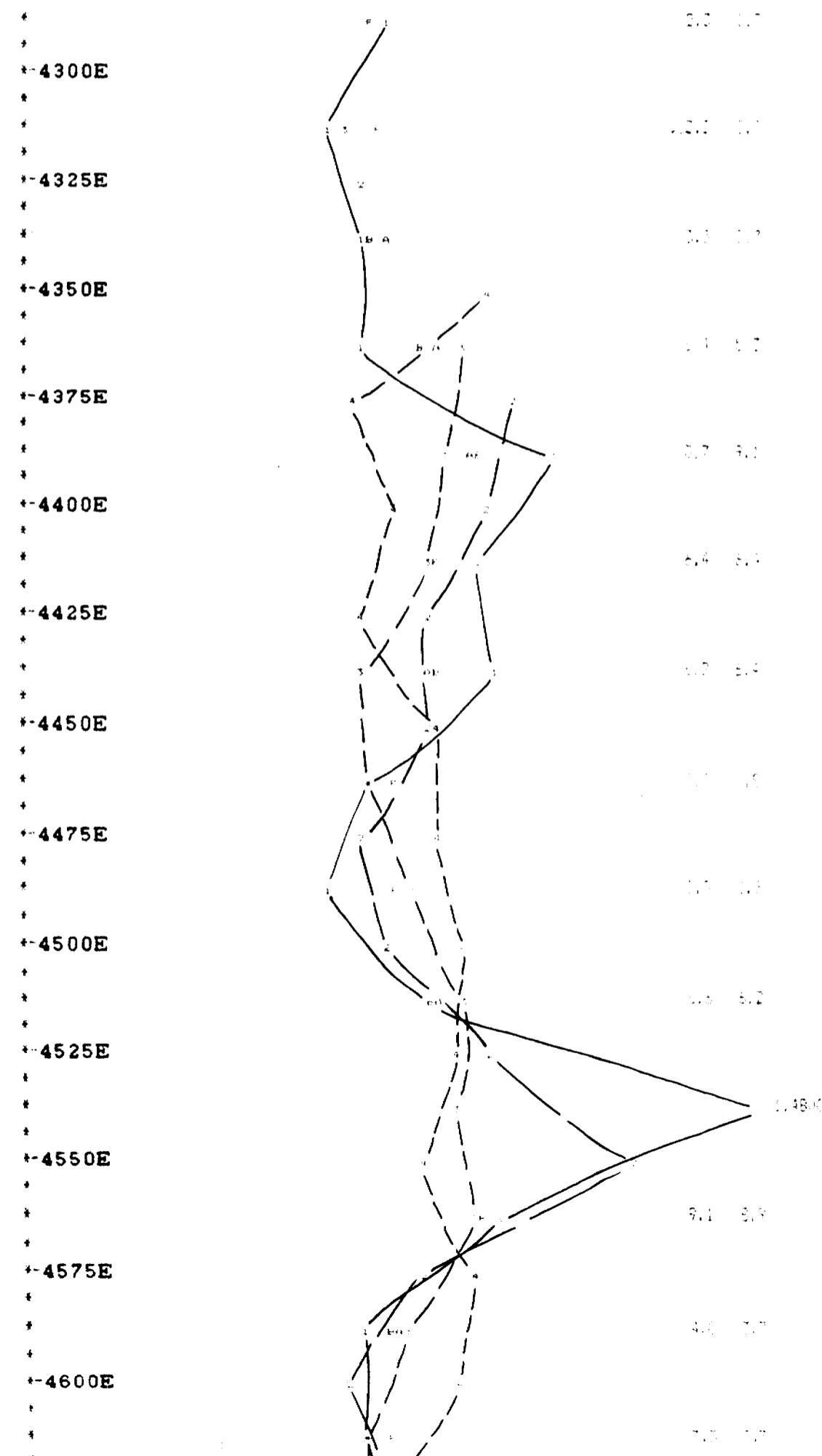
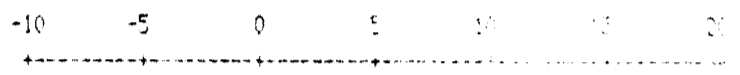
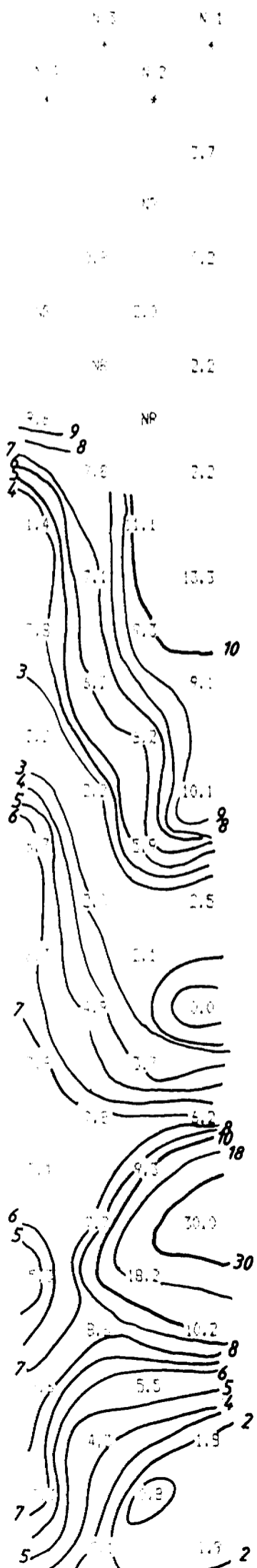
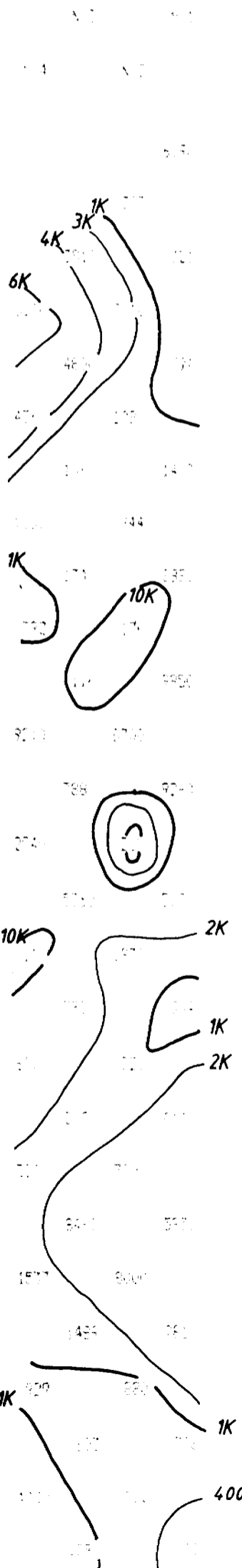
LINE 2350 N

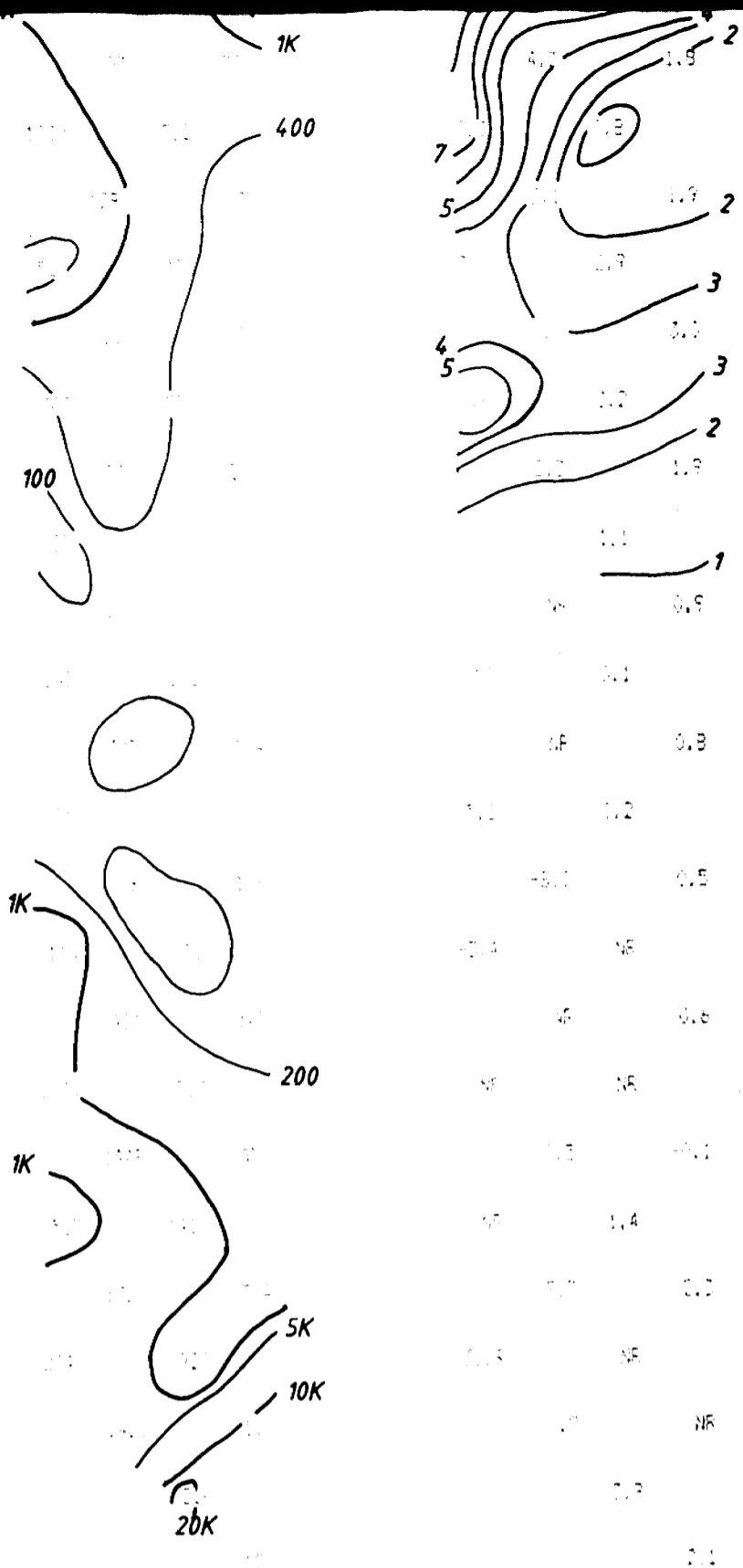
SCALE : 1 : 1250

RESISTIVITY
(ohm-meters)

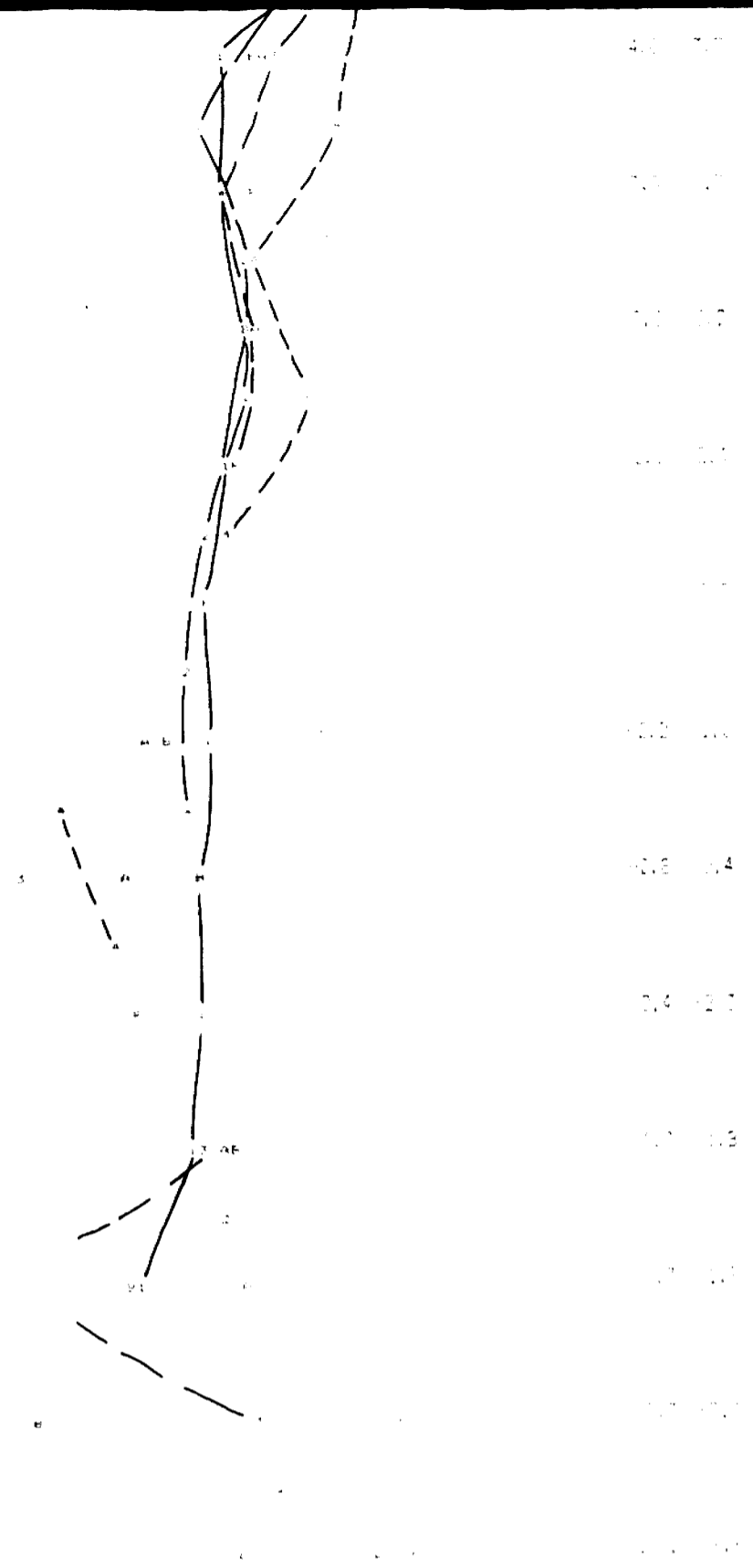
CHARGEABILITY
(percent seconds)

CHARGEABILITY PROFILE



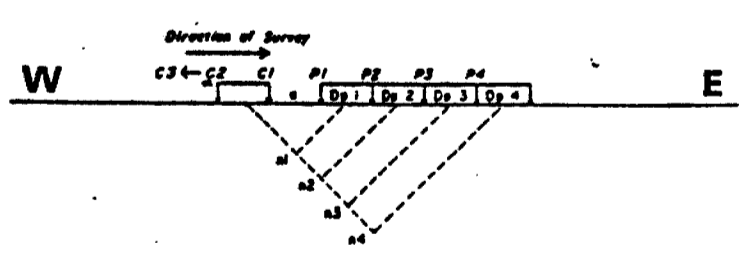


+4600E
 +4625E
 +4650E
 +4675E
 +4700E
 +4725E
 +4750E
 +4775E
 +4800E
 +4825E
 +4850E
 +4875E



Property : MAISONVILLE TWP. GRID 7
 Client : GLEN AUDEN RESOURCES

Date of Survey : 4/8/86
 Operator : CGP
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX TSQ-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms



Greg Hodges

 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4

Spacing = 25 M

LINE 2550 N

SCALE : 1 : 1250

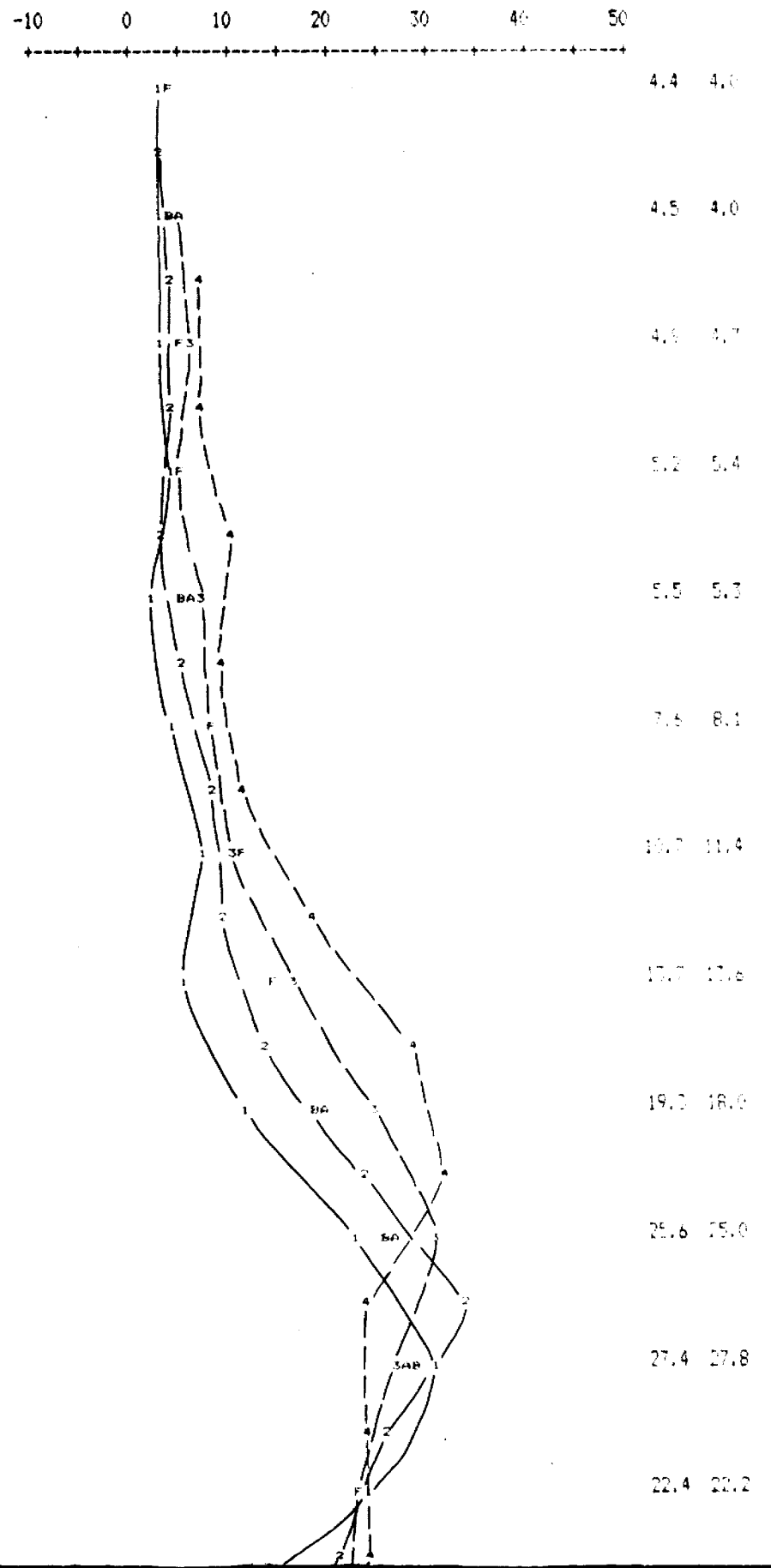
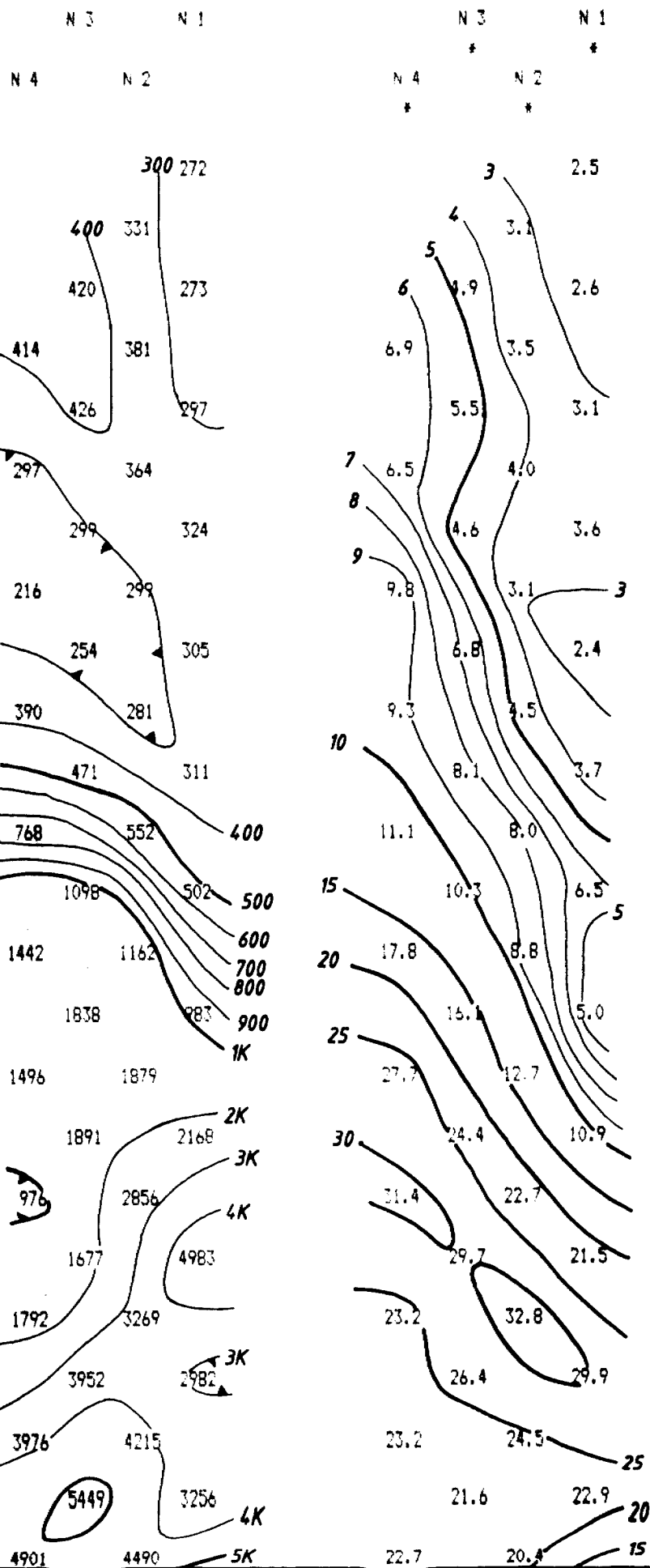
F I
R I
A S T
E R

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

A B



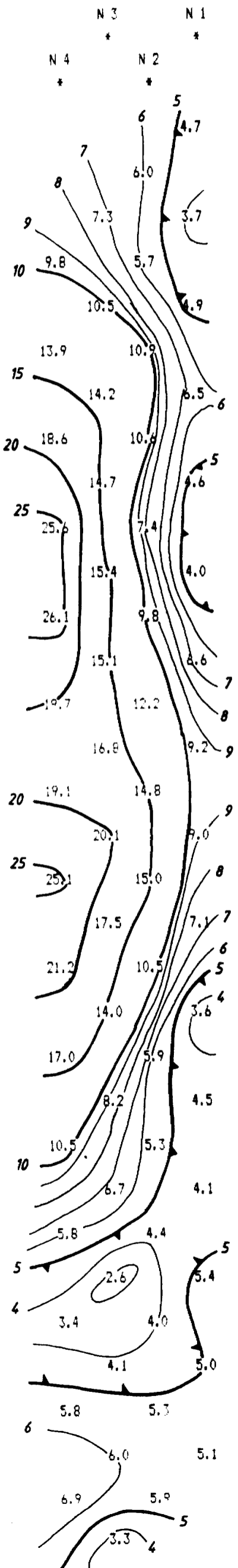
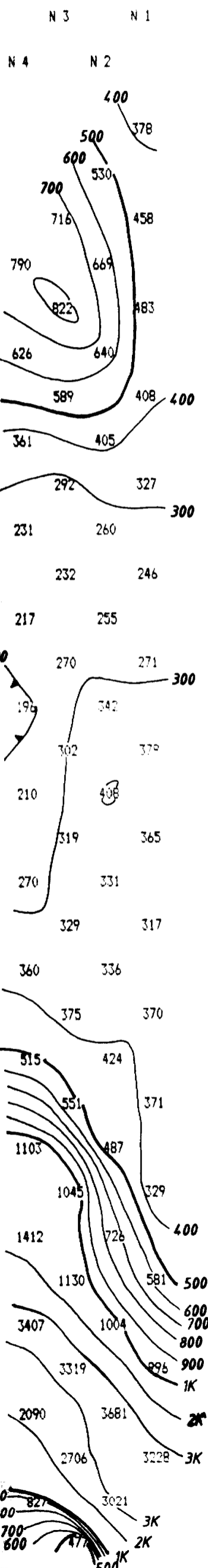
SCALE : 1 : 1250

F
R
I
E
N
D
S
S
E
R
V
I
C
E
S

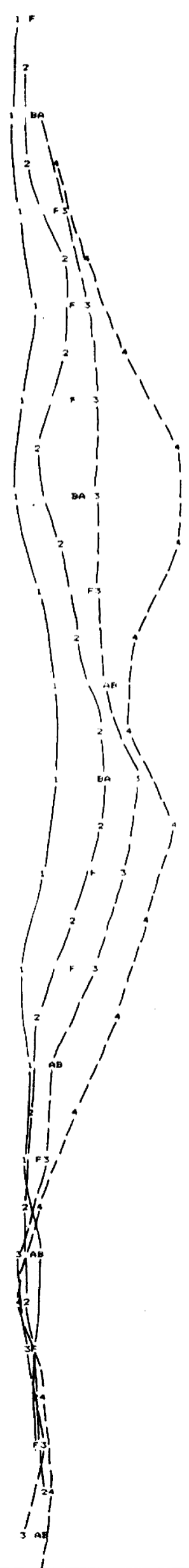
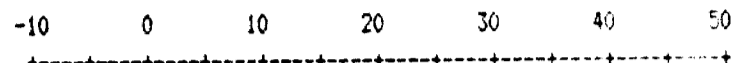
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

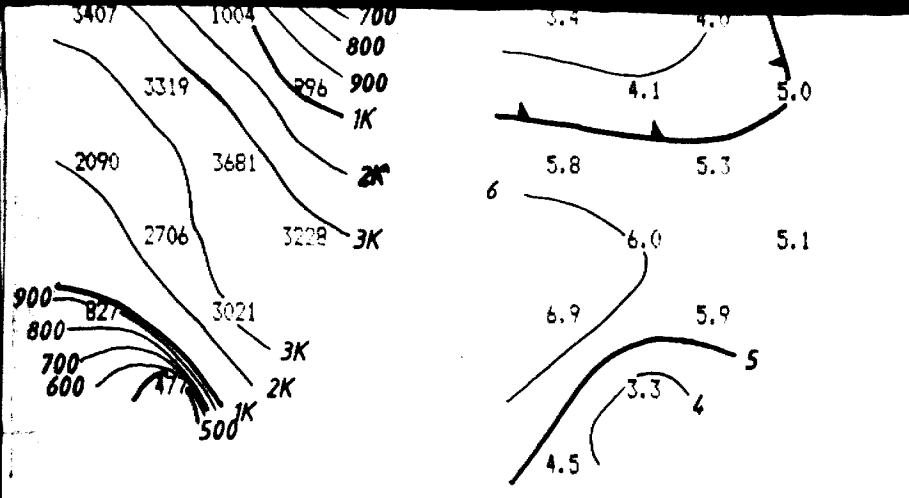
CHARGEABILITY PROFILE



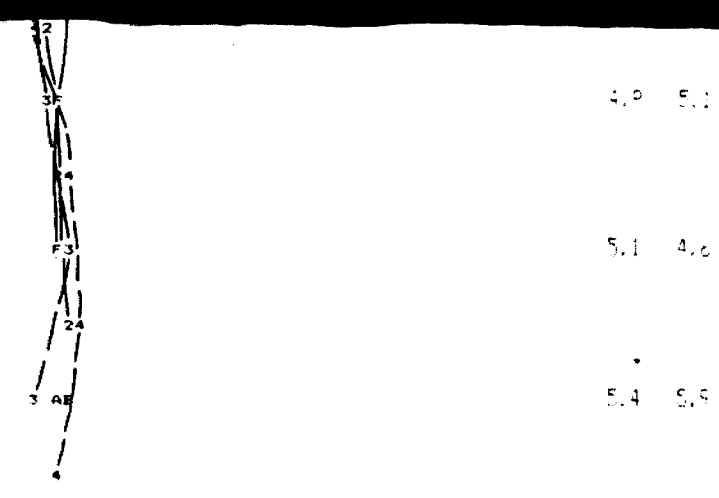
- + -3875E
- + -3900E
- + -3925E
- + -3950E
- + -3975E
- + -4000E
- + -4025E
- + -4050E
- + -4075E
- + -4100E
- + -4125E
- + -4150E
- + -4175E
- + -4200E
- + -4225E
- + -4250E



Station	Value 1	Value 2
N1	7.0	6.5
N2	7.6	7.3
N3	9.5	9.5
N4	11.9	11.9
N1	12.4	12.1
N2	12.6	11.7
N3	14.0	14.0
N4	15.6	15.5
N1	15.8	15.4
N2	14.4	13.7
N3	10.9	10.6
N4	8.3	8.5
N1	6.0	6.1
N2	5.1	5.6
N3	4.9	5.1
N4	5.1	4.6
N1	5.4	5.5

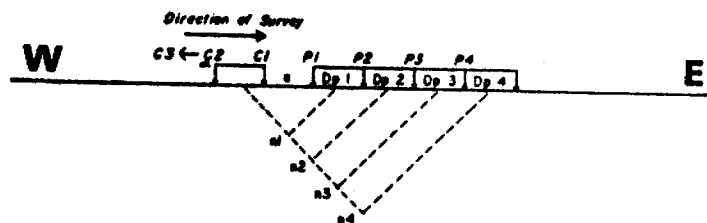


* -4200E
 *
 *
 *
 * -4225E
 *
 *
 *
 * -4250E
 *
 *
 *
 * -4275E
 *



Property : MAISONVILLE GRID 7
 Client : GLEN AUDEN RESOURCES LTD.

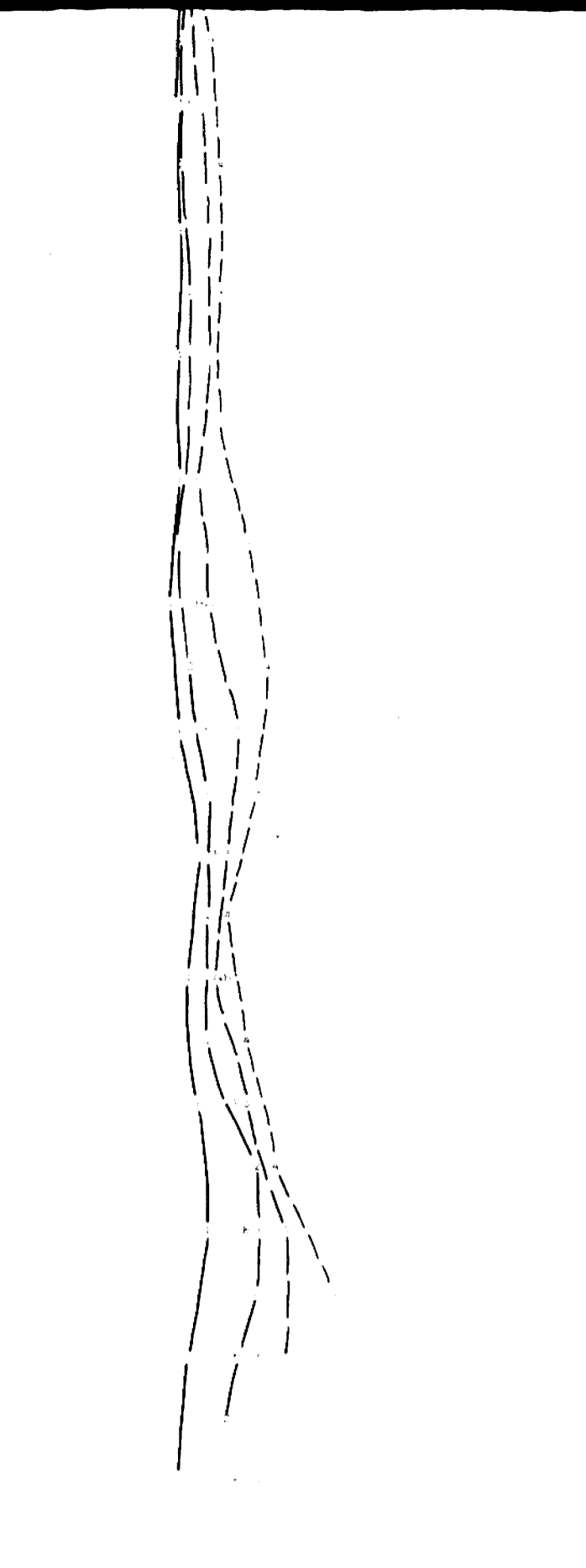
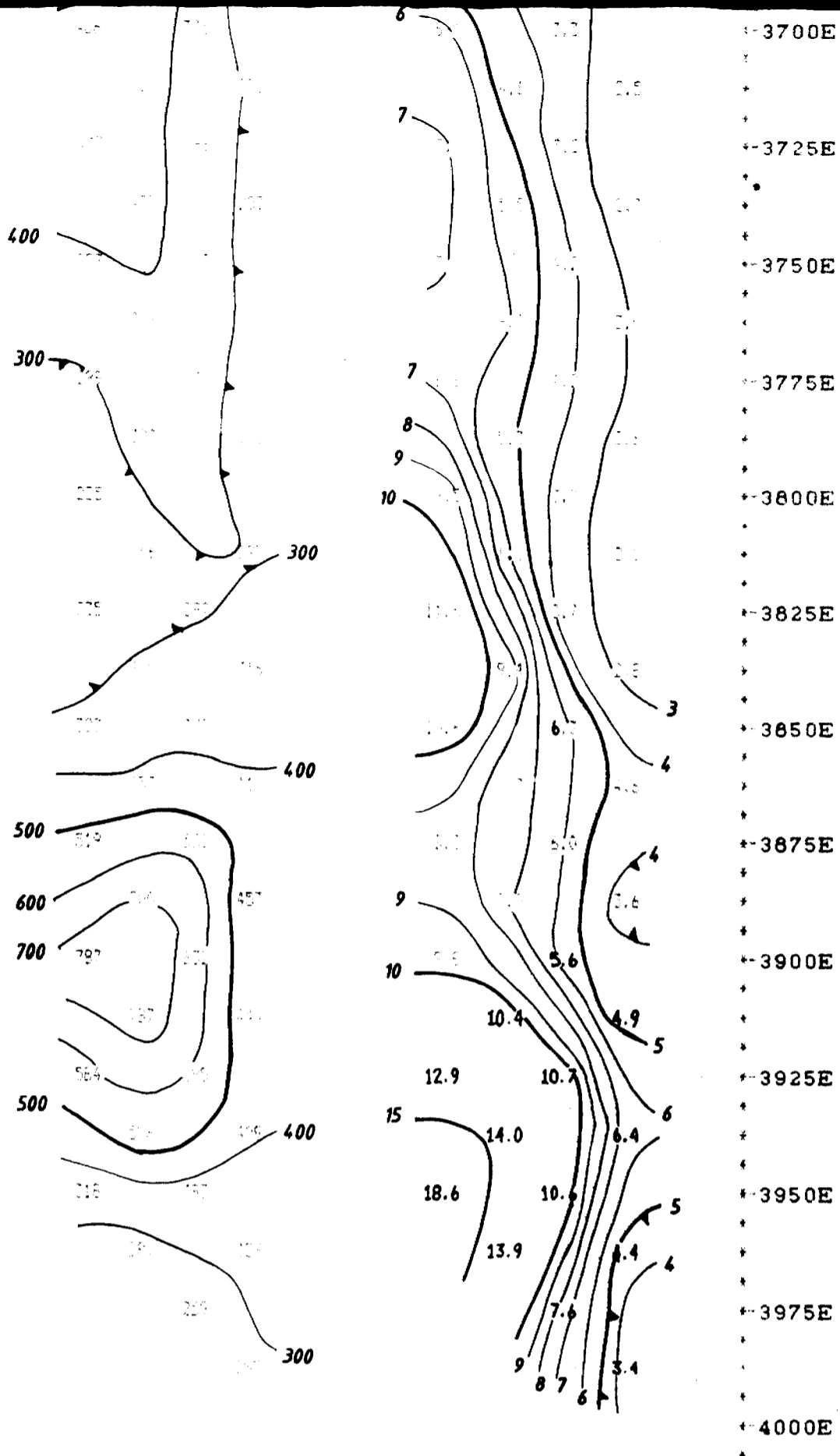
Date of Survey : 9/6/86
 Operator : CDJ
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX IPR-11
 Transmitter : SCINTREX TSQ-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms
 Slice # 7 Plotted



 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

Greg Rodger

IP Pseudosections for N = 1 to 4
 'a' Spacing = 25 M
 LINE 2750 N



Property : MAISONVILLE GRID 7
 Client : GLEN AUDEN RESOURCES LTD.

Date of Survey : 9/6/86
 Operator : CDJ
 Electrode Array : DIPOLE - DIPOLE
 Mode : TIME DOMAIN
 Receiver : SCINTREX 1PR-11
 Transmitter : SCINTREX TSD-3
 Pulse Time : 2 Sec on 2 Sec off
 Delay Time : 360 ms
 Integration Time : 780 ms

 R. S. MIDDLETON EXPLORATION
 SERVICES INC.

IP Pseudosections for N = 1 to 4

Spacing = 25 M

LINE 2750 N

Ray Wodga



Ontario



42A01NE0039 2.9901 MAISONVILLE

900

Ministry of
Northern Development
and Mines

March 27, 1987

File: 2.9901

AFRO
Ministry of Northern Development and Mines
8th Floor
77 Grenville Street
Toronto, Ontario
M5S 1B3

Attention: Bob Owen

RE: Geophysical (I.P.) Survey submitted on
Mining Claims L 778368, et al, in Maisonville
Township

This copy of the above-mentioned survey is forwarded to you as information only due to the generosity of Glen Auden Resources Limited. The 122 claims involved have reached the maximum 80 days geophysical assessment credits allowed by the Mining Act and therefore the submission was not reviewed or assessed within our guidelines.

Yours sincerely,

J.C. Smith, A/Manager
Mining Lands Section
Mineral Development and Lands Branch
Mines and Minerals Division

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

Telephone: (416) 965-4888

AB

AB/mc

cc: Mining Recorder - Kirkland Lake, Ontario
cc: Resident Geologist - Kirkland Lake, Ontario
cc: Glen Auden Resources Limited - Toronto, Ontario

Encl.

Mining Lands Section

File No 2.9901

Control Sheet

TYPE OF SURVEY	<input type="checkbox"/>	GEOPHYSICAL
	<input checked="" type="checkbox"/>	GEOLOGICAL
	<input type="checkbox"/>	GEOCHEMICAL
	<input type="checkbox"/>	EXPENDITURE

MINING LANDS COMMENTS:

L.D.

Signature of Assessor

Date

ROBERT S. MIDDLETON EXPLORATION SERVICES INC.

TELEPHONE (705) 264-4246
(705) 264-4247

P.O. BOX 1637
TIMMINS, ONTARIO
P4N 7W8

March 24, 1987

Mr. Arthur Barr
Ministry of Northern Development & Mines
Room 6610
Whitney Block
99 Wellesley St. West
Queen's Park
TORONTO, Ontario
M7A 1W3

Dear Mr. Barr:

Enclosed please find 2 copies of the Geophysical Survey on the 122 claims Maisonville Township property of Glen Auden Resources Limited by Greg Hodges. The property already has 80 days geophysical credit (Airborne survey), however, we will still submit the report for your records.

Sincerely


Nadia Caira

NC/lm

RECEIVED

MAR 25 1987

MINING LANDS SECTION

BENOIT TWP - M.326

THE TOWNSHIP OF
OF
MAISONVILLE

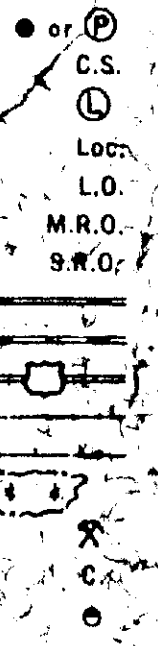
DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

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



NOTES

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

Areas withdrawn from staking under Section 43 of the Mining Act, R.S.O. 1970 (Sec. 42, R.S.O. '80)

Order No.	File	Date	Disposition
22032		11/8/70	S.R.O.
NR.W.5/81	22032	23/1/81	S.R.O.
W.8/86	Sec. 26/83	20/01/86	M.R.S.

All islands in Sesekinika Lake are withdrawn from staking by Order-in-Council dated Dec. 7, 1921.

Withdrawn from staking, see 3 (b) pending application under public deeds Act

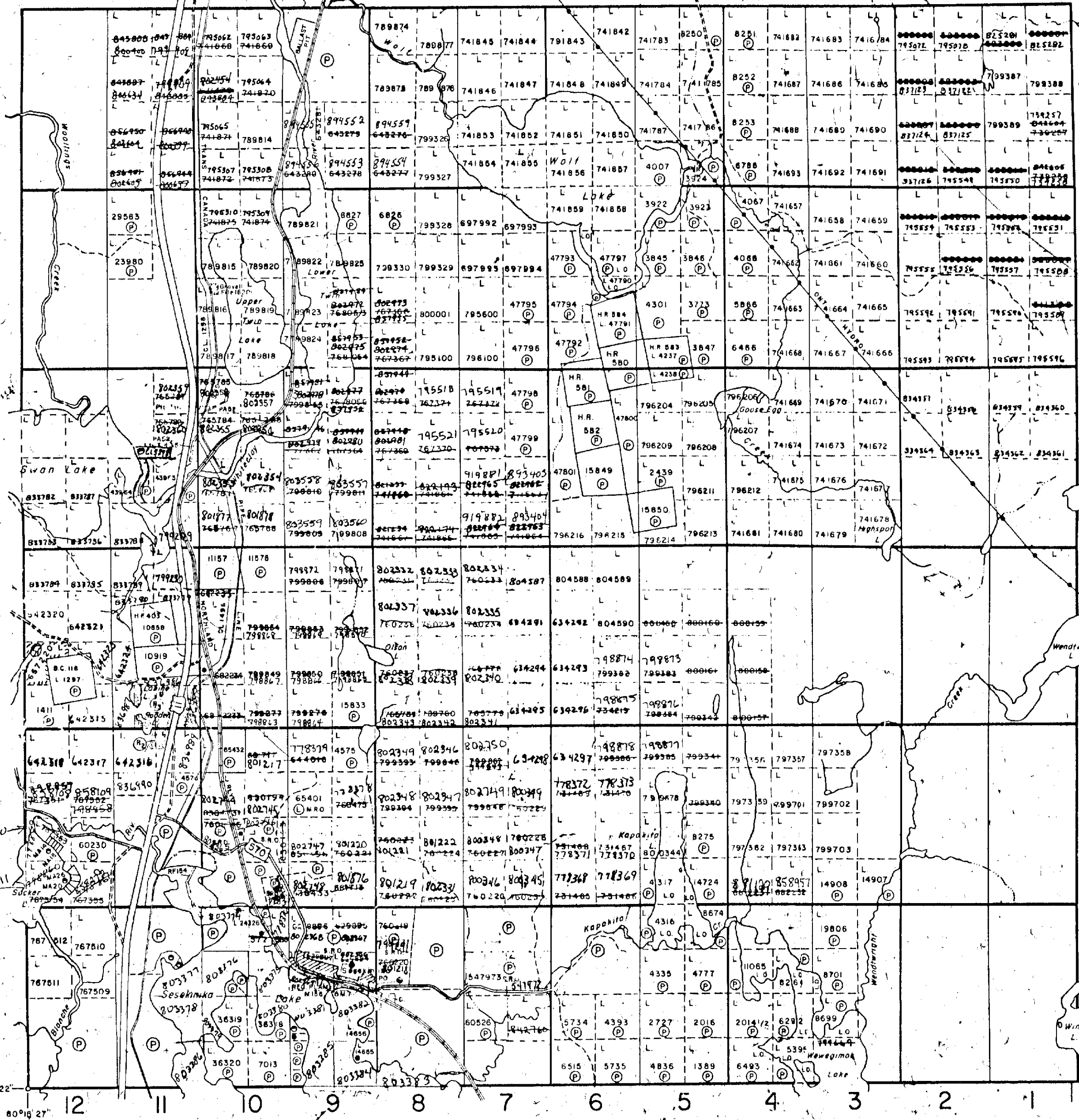
DATE OF ISSUE
FEB 3 1987
LARDER LAKE
MINING RECORDER'S OFFICE

PLAN NO. **M.361** #2

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

LEE TWP - M.360

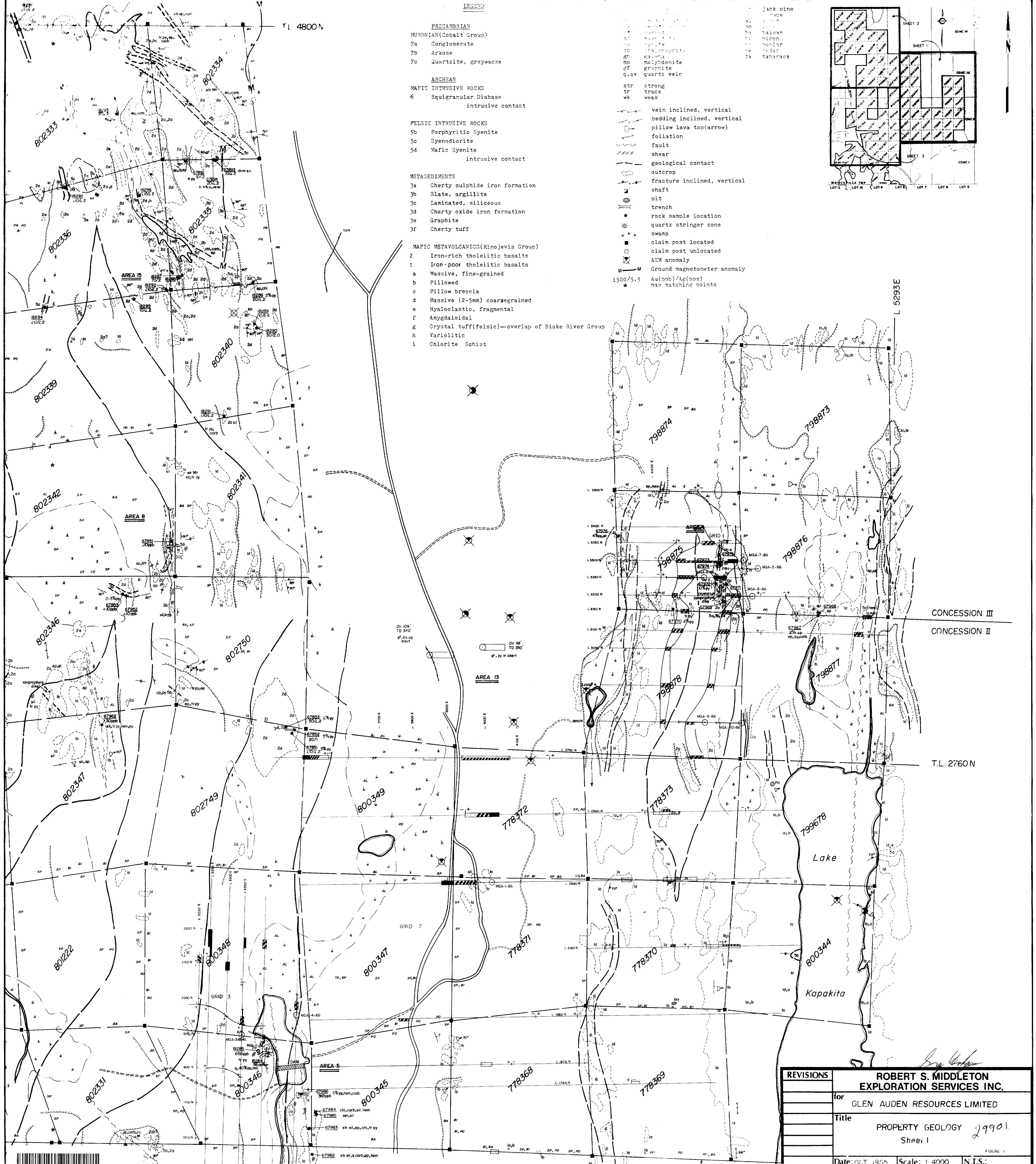
BERNHARDT TWP - M.327



GRENFELL TWP - M.351



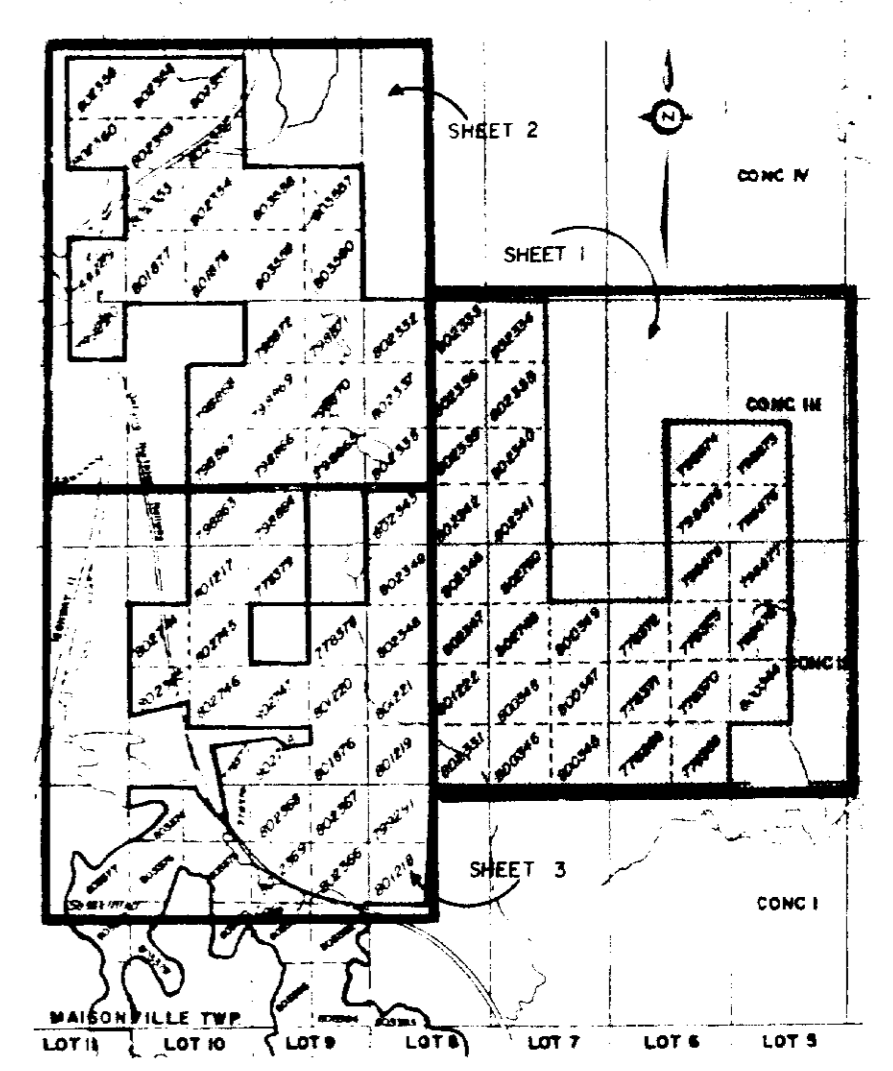
42A01NE0039 2-9901 MAISONVILLE



LEGEND

- PRECAMBRIAN**
HURONIAN (Cobalt Group)
 7a Conglomerate
 7b Arkose
 7c Quartzite, greywacke
- ARCHEAN**
MAFIC INTRUSIVE ROCKS
 6 Equigranular Diabase
 Intrusive contact
- FELSIC INTRUSIVE ROCKS**
 5b Porphyritic Syenite
 5c Syenodiorite
 5d Mafic Syenite
 Intrusive contact
- METASEDIMENTS**
 3a Cherty sulphide iron formation
 3b Slate, argillite
 3c Laminated, siliceous
 3d Cherty oxide iron formation
 3e Graphite
 3f Cherty tuff
- MAFIC METAVOLCANICS (Kinojevis Group)**
 2 Iron-rich tholeiitic basalts
 1 Iron-poor tholeiitic basalts
 a Massive, fine-grained
 b Pillowed
 c Pillow breccia
 d Massive (2-5mm) coarsegrained
 e Hyaloclastic, fragmental
 f Amygdaloidal
 g Crystal tuff(felsic)—overlap of Blake River Group
 h Variolitic
 i Chlorite Schist

- black pine
- fence
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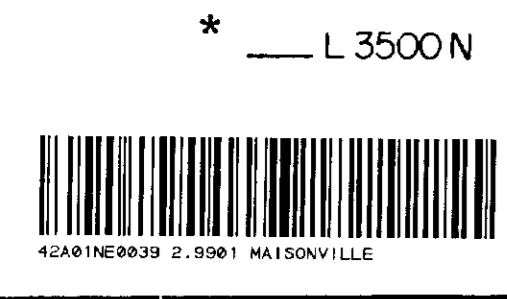
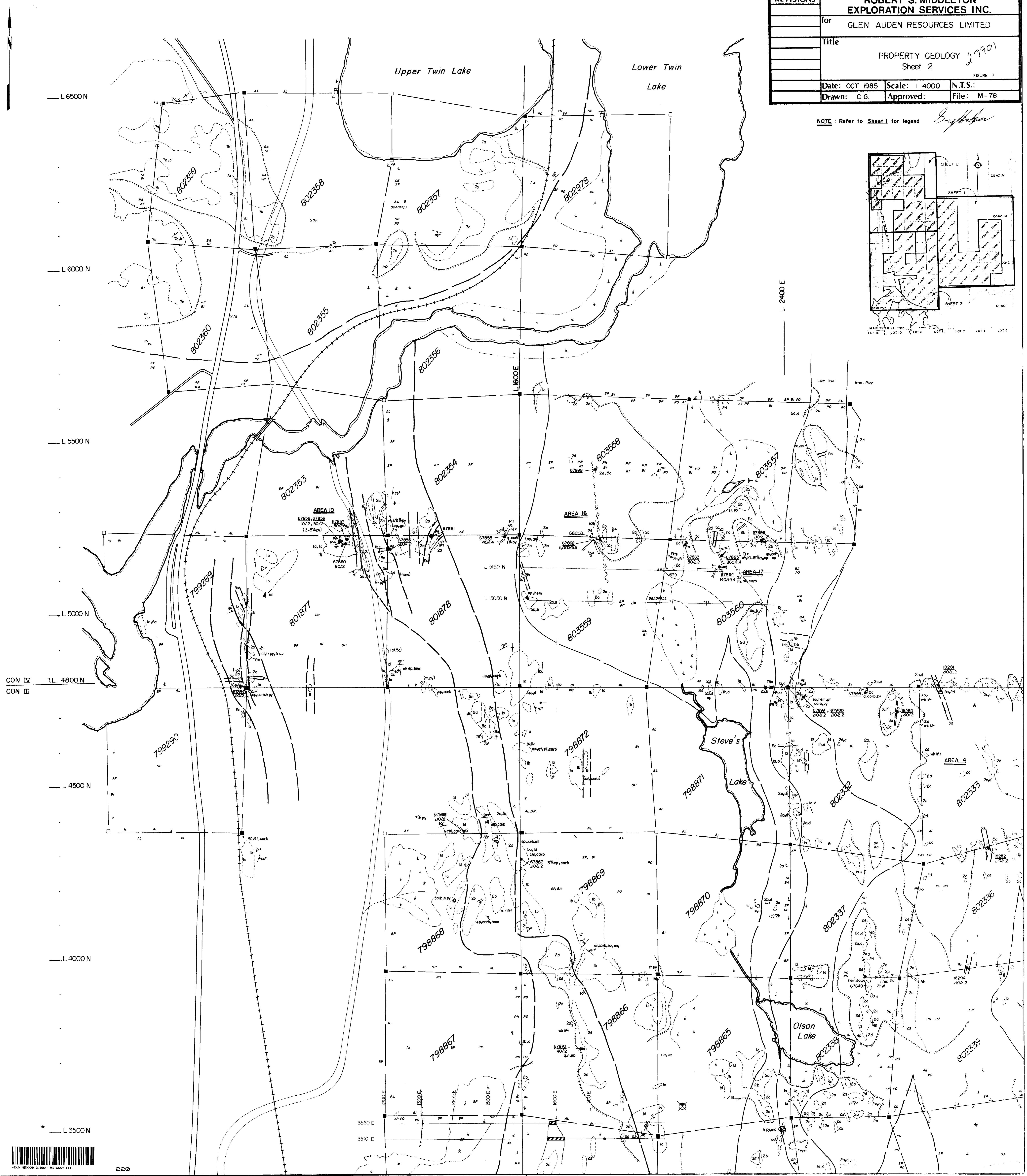
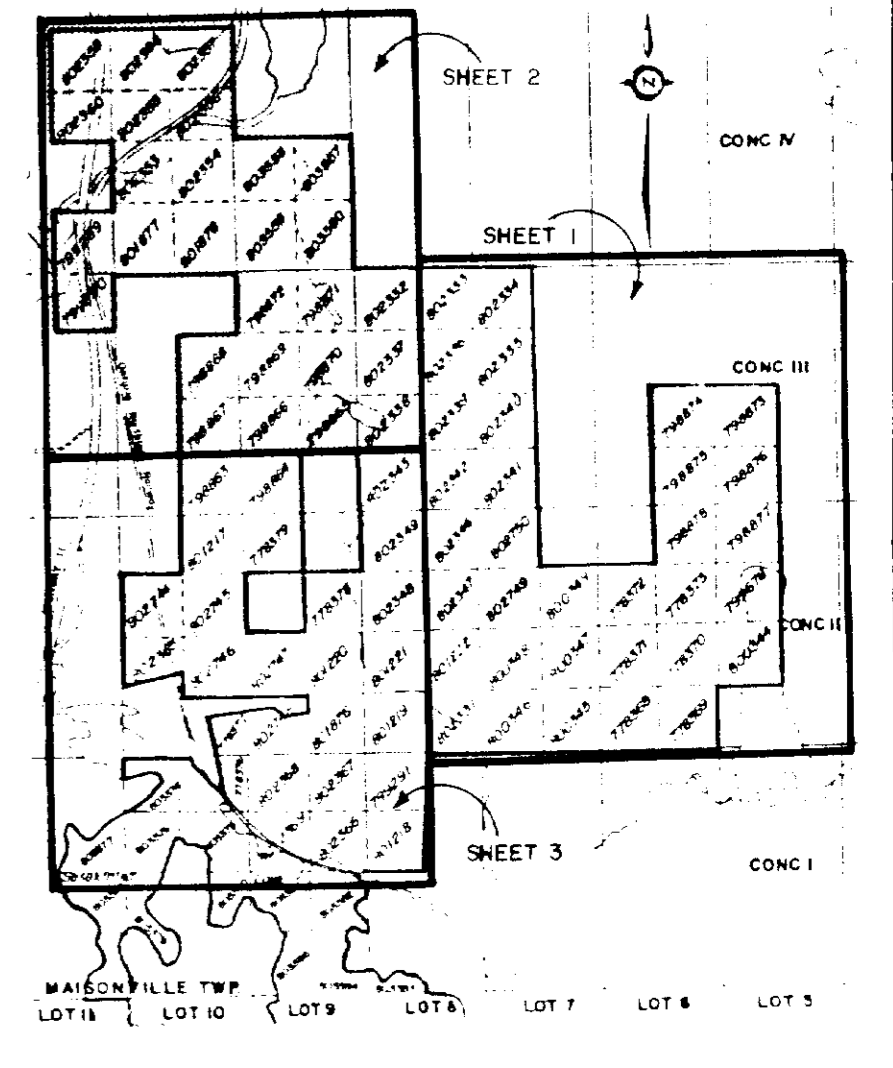


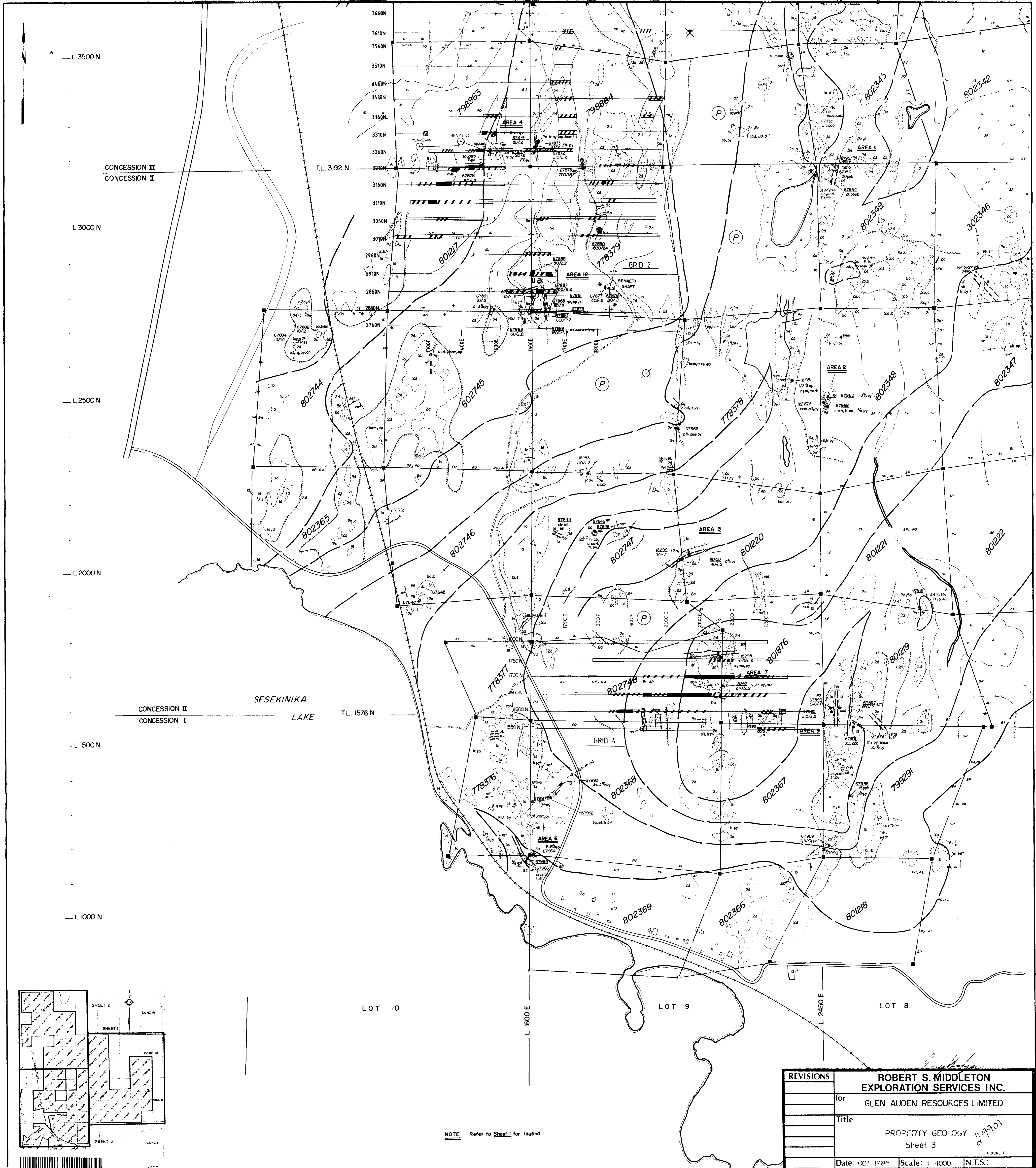
REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for	GLEN AUDEN RESOURCES LIMITED	
	Title	PROPERTY GEOLOGY 29901 Sheet 1	
	Date: OCT 1965	Scale: 1:4000	N.T.S.:
	Drawn: C.G.	Approved:	File: M-79



REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for GLEN AUDEN RESOURCES LIMITED		
	Title PROPERTY GEOLOGY 2990		
	Sheet 2		
	FIGURE 7		
Date: OCT 1985	Scale: 1 4000	N.T.S.:	
Drawn: C.G.	Approved:	File: M-78	

NOTE: Refer to Sheet 1 for legend *Byrd*





CONCESSION III
CONCESSION II

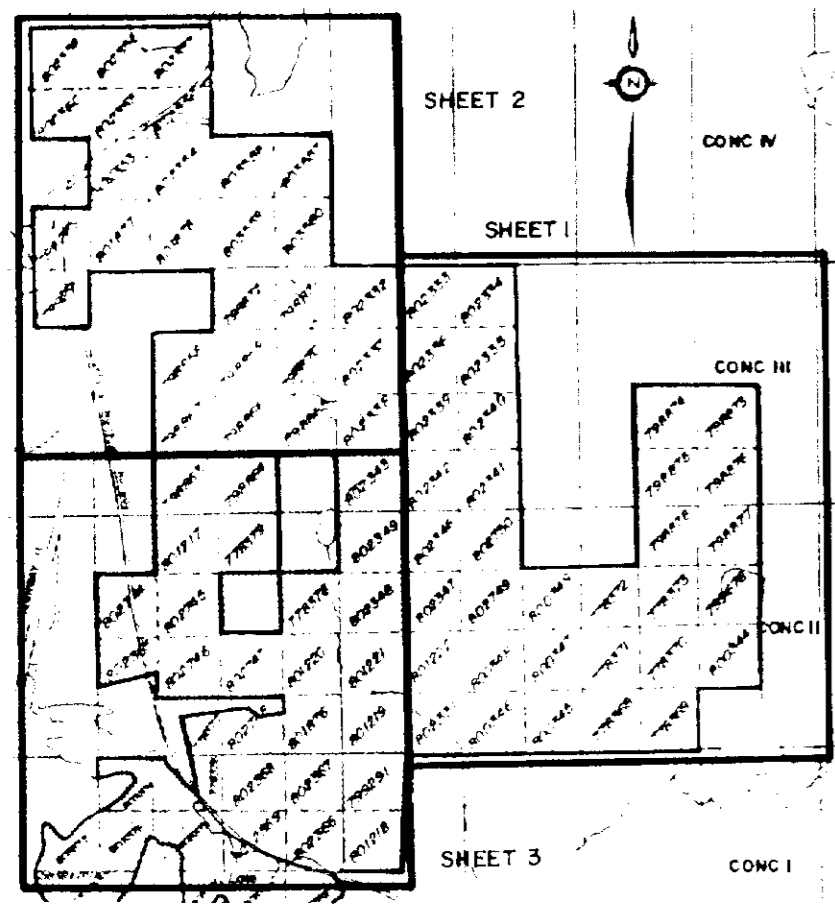
CONCESSION II
CONCESSION I

SESEKINIKA
LAKE

LOT 10

LOT 9

LOT 8



NOTE: Refer to Sheet 1 for legend

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for	GLEN AUDEN RESOURCES LIMITED	
	Title	PROPERTY GEOLOGY Sheet 3	
	Date: OCT 1985	Scale: 1:4000	N.T.S.
	Drawn: C G	Approved:	File: M 78

