McPHAR GEOPHY[illegible]

REPORT ON THE INDUCED POLARIZATION AND RESISTIVITY SURVEY IN CHESTER AND BENNEWEISS TOWNSHIPS SUDBURY MINING DIVISION, ONTARIO FOR LAVA MINERALS

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1. INTRODUCTION

At the request of the company, an Induced Polarization and Resistivity Survey has been completed on claims in Chester and Benneweiss Townships for Lava Minerals. The survey grid is situated in the northwest quadrant of the 1° quadrilateral whose southeast corner is at 47° latitude and 81° longitude.

The country rocks in the grid area are Pre-Algoman diorite and quarts diorite. There are several outcrops of sulphides and gold to the west of the grid in the Three Duck Lake area; however, the geologic environment there is different, consisting of granite with intruding basic dikes and gold-bearing quarts veins.

The Induced Polarization and Resistivity survey was carried out to locate any economic deposits of metallic mineralization which might be present. A McPhar P660 high power variable frequency IP unit was used in

January, 1971, over the following claims:

S21529, S220605, S21528, S259295, S220607, S284546, S21567, S21568, S284547, S21362, S284548, S292908, S284549, S21611, S284550, S284551, S21778, S21779, S284552, S284553, S284554, S284555, S21615, S284556, S26084, S284557, S25602, S284558, S25502, S284559, S284560, S21618, S259298, S284561, S284562, S284563, S284564, S284565, S259310, S21624 S290131, S290130, S290129, S290128.

These claims are assumed to be owned or held under option by Lava Minerals. The claims have been plotted to the best of our ability with the information supplied.

2. PRESENTATION OF RESULTS

The Induced Polarization and Resistivity results are shown on the following data plots in the manner described in the notes preceding this report.

Line	Electrode Intervals	Dwg. No.
72W	400 feet	IP 5814-1
68W	400 feet	IP 5814-2
64W	400 feet	IP 5814-3
60W	400 feet	IP 5814-4
56W	400 feet	IP 5814-5
52W	400 feet	IP 5814-6
48W	400 feet	IP 5814-7
44W	400 feet	IP 5814-8
40W	400 feet	IP 5814-9

Line	Electrode Intervals	Dwg. No.
36W	400 feet	IP 5814-10
	100 feet	IP 5814-11
32W	400 feet	IP 5814-12
	100 feet	IP 5814-13
28W	400 feet	IP 5814-14
24W	400 feet	IP 5814-15
20W	400 feet	IP 5814-16
16W	400 feet	IP 5814-17
12W	400 feet	IP 5814-18
8W	400 feet	IP 5814-19
4W	400 feet	IP 5814-20
0	400 feet	IP 5814-21

Also enclosed with this report is Dwg. I.P.P. 4781, a plan map of the Chester and Benneweiss Townships Grid at a scale of 1" = 400'. The definite, probable and possible Induced Polarization anomalies are indicated by bars, in the manner shown on the legend, on this plan map as well as on the data plots. These bars represent the surface projection of the anomalous zones as interpreted from the location of the transmitter and receiver electrodes when the anomalous values were measured.

Since the Induced Polarization measurement is essentially an averaging process, as are all potential methods, it is frequently difficult to exactly pinpoint the source of an anomaly. Certainly, no anomaly can be located with more accuracy than the electrode interval length; i.e. when using 400' electrode intervals the position of a narrow sulphide body can only be determined

to lie between two stations 400' apart. In order to definitely locate, and fully evaluate, a narrow, shallow source it is necessary to use shorter electrode intervals. In order to locate sources at some depth, larger electrode intervals must be used, with a corresponding increase in the uncertainties of location. Therefore, while the centre of the indicated anomaly probably corresponds fairly well with source, the length of the indicated anomaly along the line should not be taken to represent the exact edges of the anomalous material.

3. DISCUSSION OF RESULTS

No anomalies were located by the Induced Polarization and Resistivity survey. Resistivities are generally high except over water, where conductive bottom sediments are reflected in decreased resistivities. No increase in frequency effects accompanies any decrease in resistivities except on Line 32W from 3S to the south. Here a power line crosses a swamp and the slight increase in Metal Factor values must be suspect.

4. SUMMARY

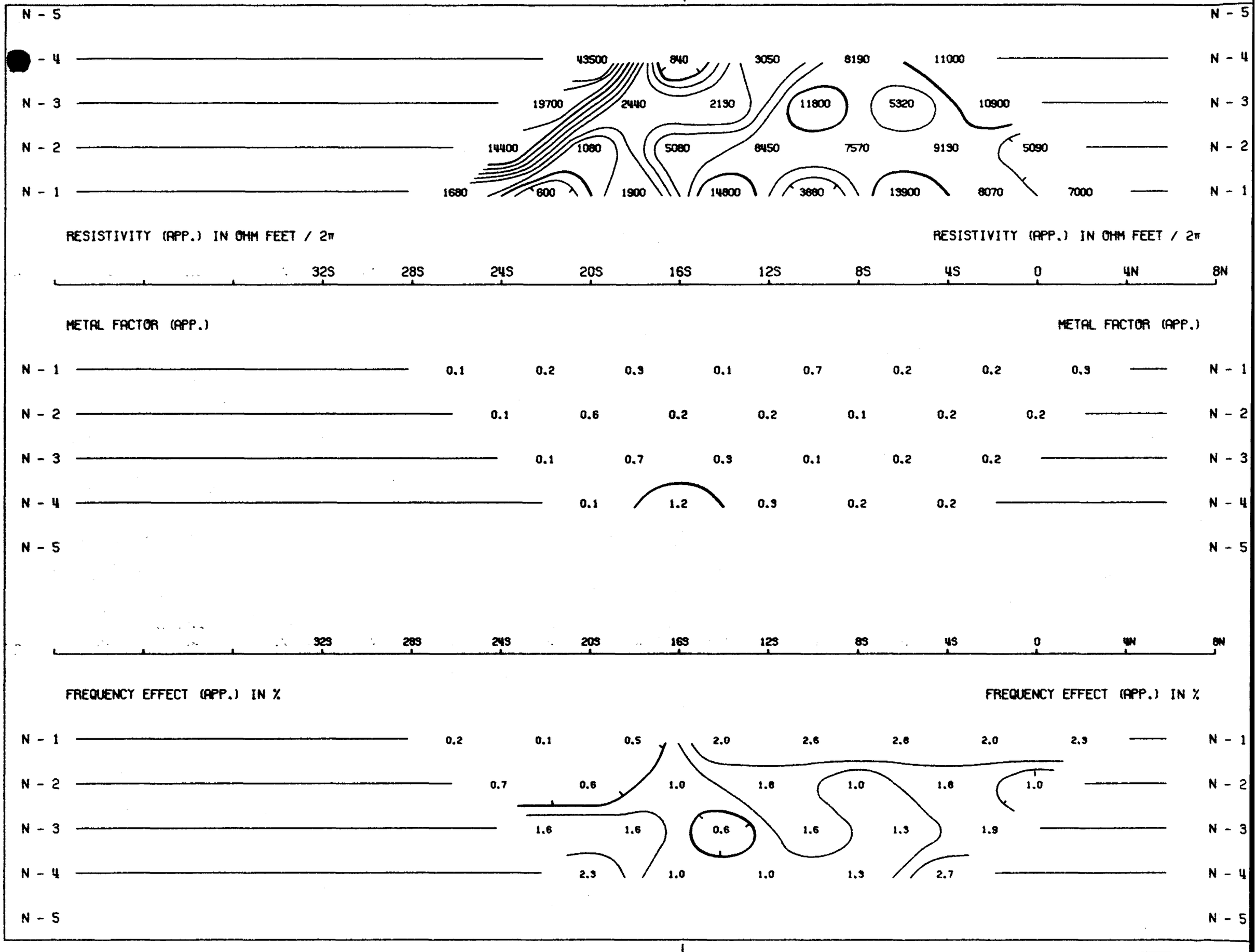
The results obtained by the IP survey do not suggest the presence of a substantial zone of massive metallic mineralization or a large volume of disseminated sulphide mineralization.

McPHAR GEOPHYSICS LIMITED

Marion A. Goudie,
Geologist.

Robert A. Bell,
Geologist.

Dated: July 29, 1971


N - 5
N - 4
N - 3
N - 2
N - 1
43500
840
3050
8190
11000
19700
2440
2130
11800
5320
10900
14400
1080
5080
8450
7570
9130
5090
1680
600
1900
14800
3880
13900
8070
7000
RESISTIVITY (APP.) IN OHM FEET / 2π
32S
28S
24S
20S
16S
12S
8S
4S
0
4N
8N
METAL FACTOR (APP.)
0.1
0.2
0.9
0.1
0.7
0.2
0.2
0.9
0.1
0.6
0.2
0.2
0.1
0.2
0.2
0.1
0.7
0.9
0.1
0.2
0.2
0.1
1.2
0.9
0.2
0.2
FREQUENCY EFFECT (APP.) IN %
0.2
0.1
0.5
2.0
2.6
2.8
2.0
2.3
0.7
0.6
1.0
1.8
1.0
1.8
1.0
1.6
1.6
0.6
1.6
1.3
1.9
2.3
1.0
1.0
1.3
2.7

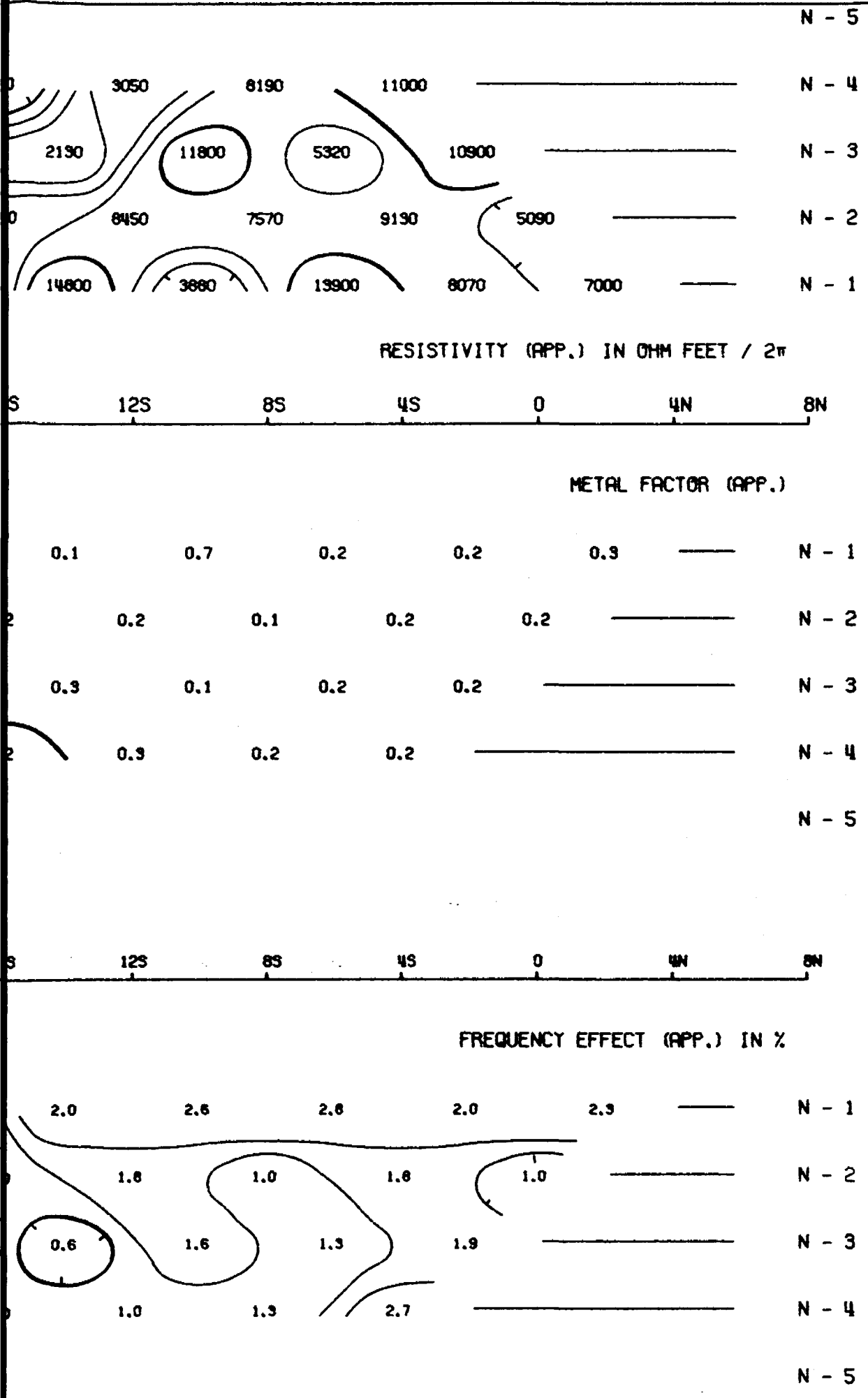
2,567

DWG. NO.- I.P.-5814-19

LAVA MINERALS LTD.

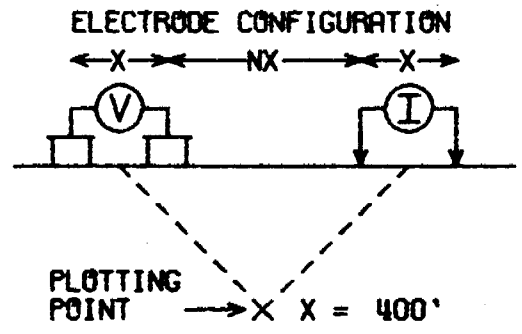
CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO



LINE NO.- 8W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ▬▬▬

PROBABLE ▪▪▪▪▪▪▪▪▪▪▪▪▪

POSSIBLE ////////

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED: _____

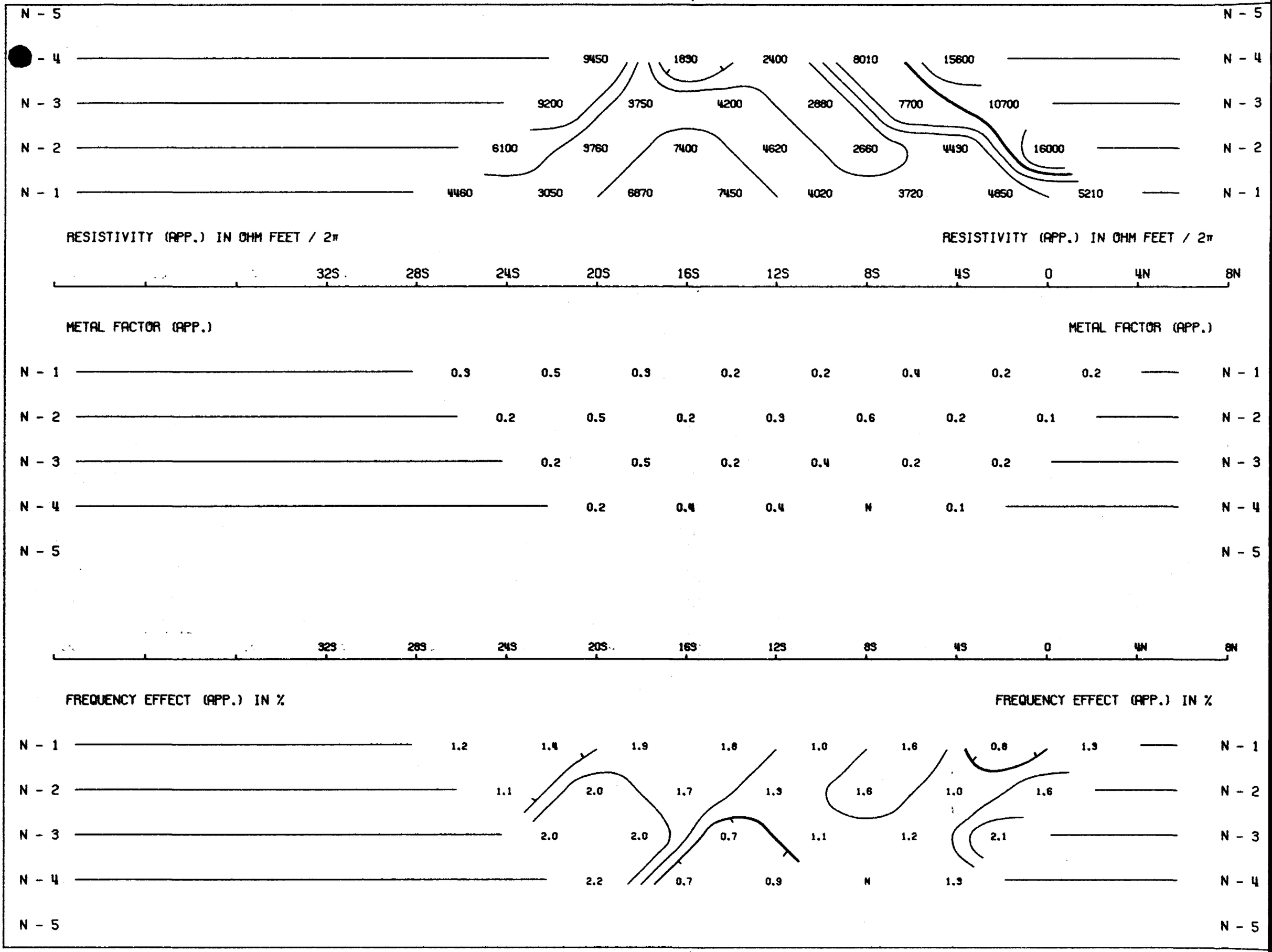
DATE: 29th July 71

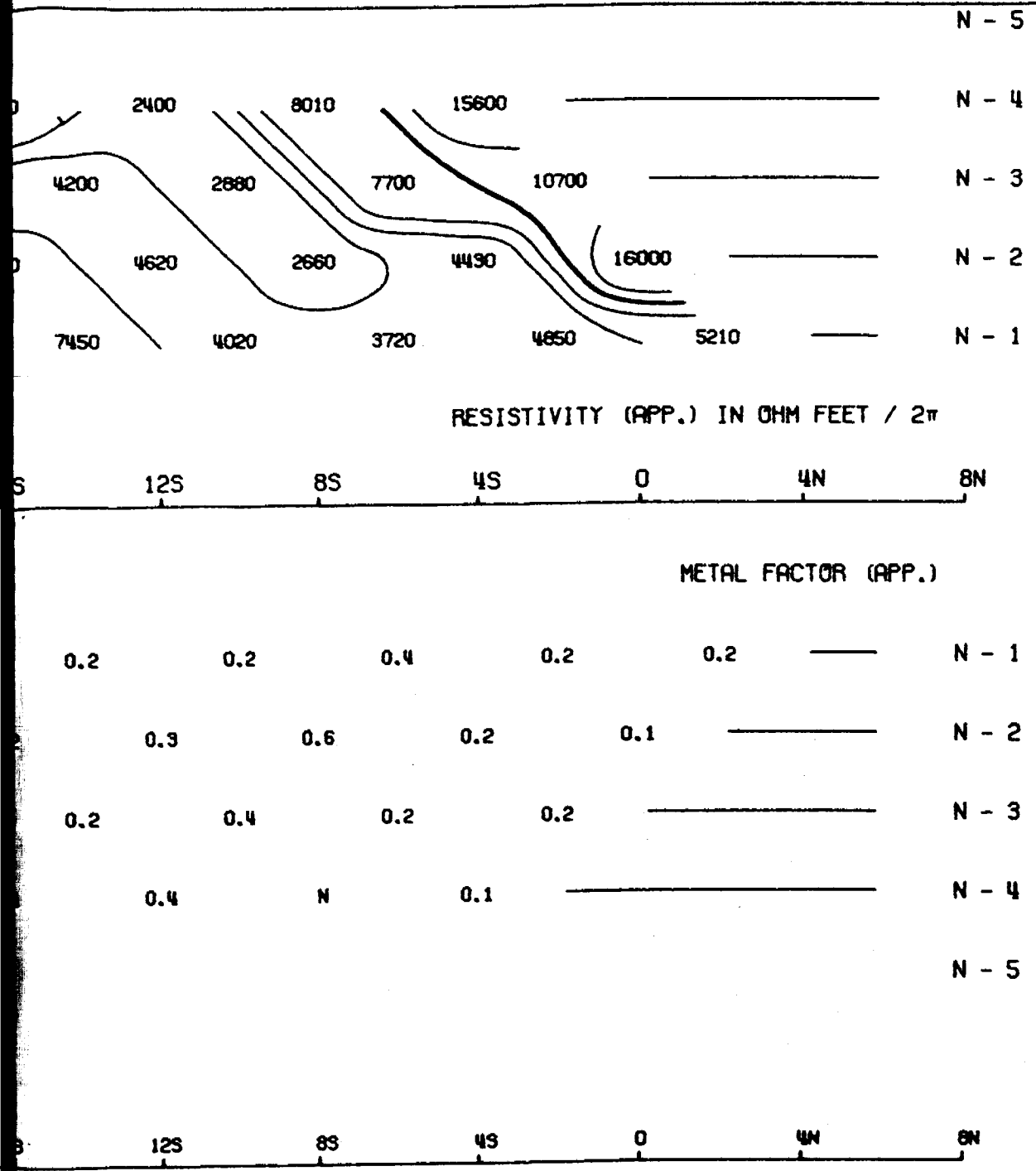
NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER


N - 5
N - 4
N - 3
N - 2
N - 1
9450
1690
2400
8010
15600
9200
3750
4200
2880
7700
10700
6100
9760
7400
4620
2660
4430
16000
4460
3050
6870
7450
4020
3720
4850
5210
RESISTIVITY (APP.) IN OHM FEET / 2π
RESISTIVITY (APP.) IN OHM FEET / 2π
32S
28S
24S
20S
16S
12S
8S
4S
0
4N
8N
METAL FACTOR (APP.)
METAL FACTOR (APP.)
0.3
0.5
0.3
0.2
0.2
0.4
0.2
0.2
0.2
0.5
0.2
0.3
0.6
0.2
0.1
0.2
0.5
0.2
0.4
0.2
0.2
0.2
0.4
0.4
N
0.1
FREQUENCY EFFECT (APP.) IN %
FREQUENCY EFFECT (APP.) IN %
1.2
1.4
1.9
1.8
1.0
1.6
0.8
1.3
1.1
2.0
1.7
1.3
1.6
1.0
1.6
2.0
2.0
0.7
1.1
1.2
2.1
2.2
0.7
0.9
N
1.3



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DWG. NO.- I.P.- 5814-20

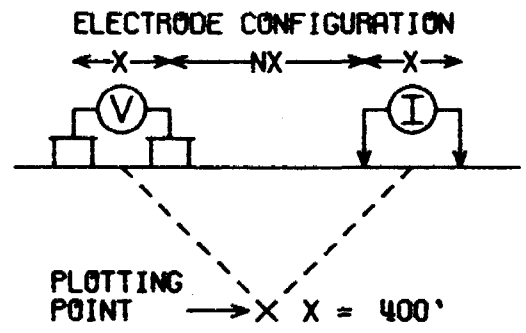
LAVA MINERALS LTD.

CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO

LINE NO.- 4W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ▬▬▬

PROBABLE ▪▪▪▪▪▪▪▪▪▪▪▪▪

POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED:

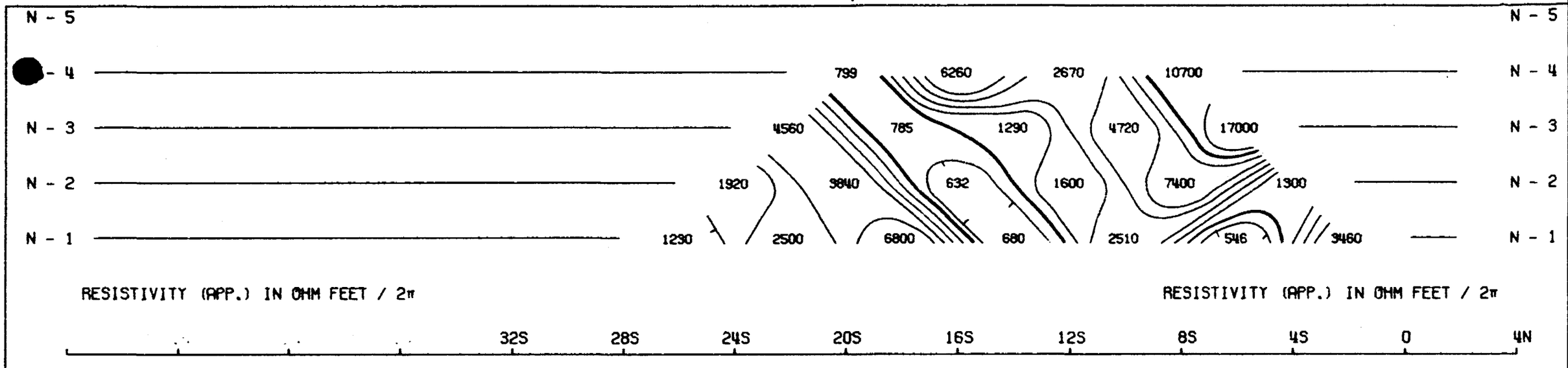
DATE: July 71

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER


N - 5
N - 4
N - 3
N - 2
N - 1
799
6260
2670
10700
4560
785
1290
4720
17000
1920
3840
632
1600
7400
1300
1230
2500
6800
680
2510
546
3460
RESISTIVITY (APP.) IN OHM FEET / 2π
RESISTIVITY (APP.) IN OHM FEET / 2π
32S
28S
24S
20S
16S
12S
8S
4S
0
4N
METAL FACTOR (APP.)
METAL FACTOR (APP.)
0.4
0.2
0.2
0.4
0.1
0.4
0.2
0.1
0.1
(-0.2)
0.2
0.1
0.4
0.1
(-0.1)
(-0.3)
0.3
0.1
(-0.3)
0.1
(-0.1)
0.2
FREQUENCY EFFECT (APP.) IN %
FREQUENCY EFFECT (APP.) IN %
0.5
0.8
1.6
0.3
0.1
0.2
0.6
0.1
0.1
(-0.1)
0.3
0.9
0.5
0.6
(-0.1)
(-0.4)
1.8
1.6
(-0.2)
0.6
(-0.3)
1.9

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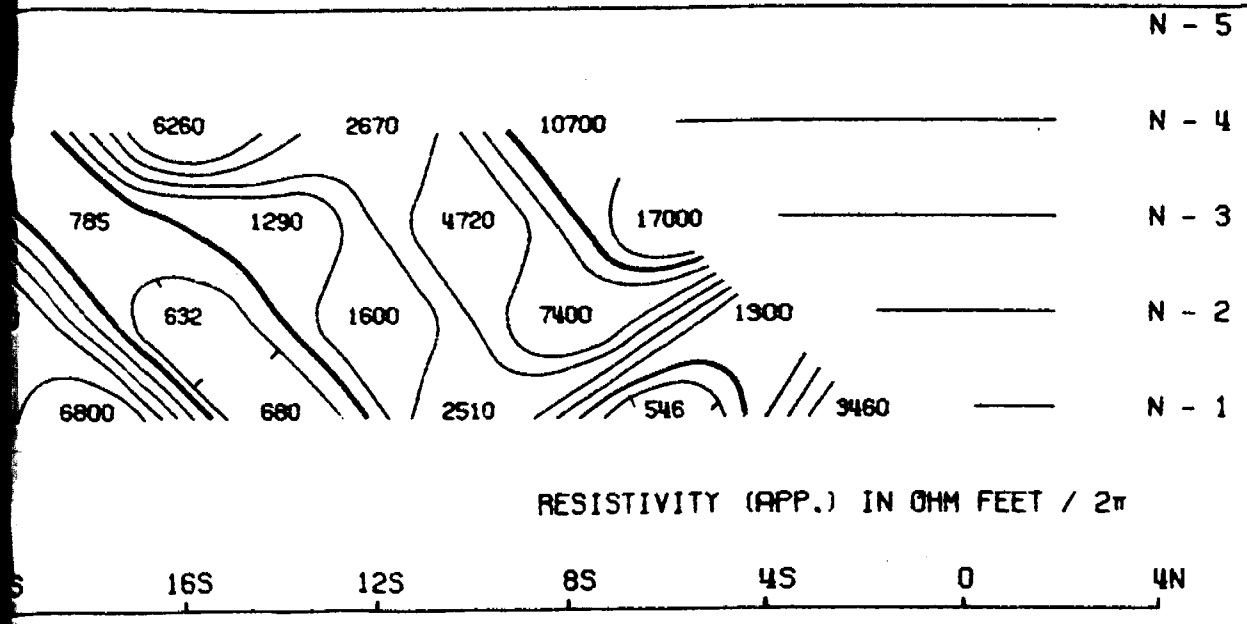
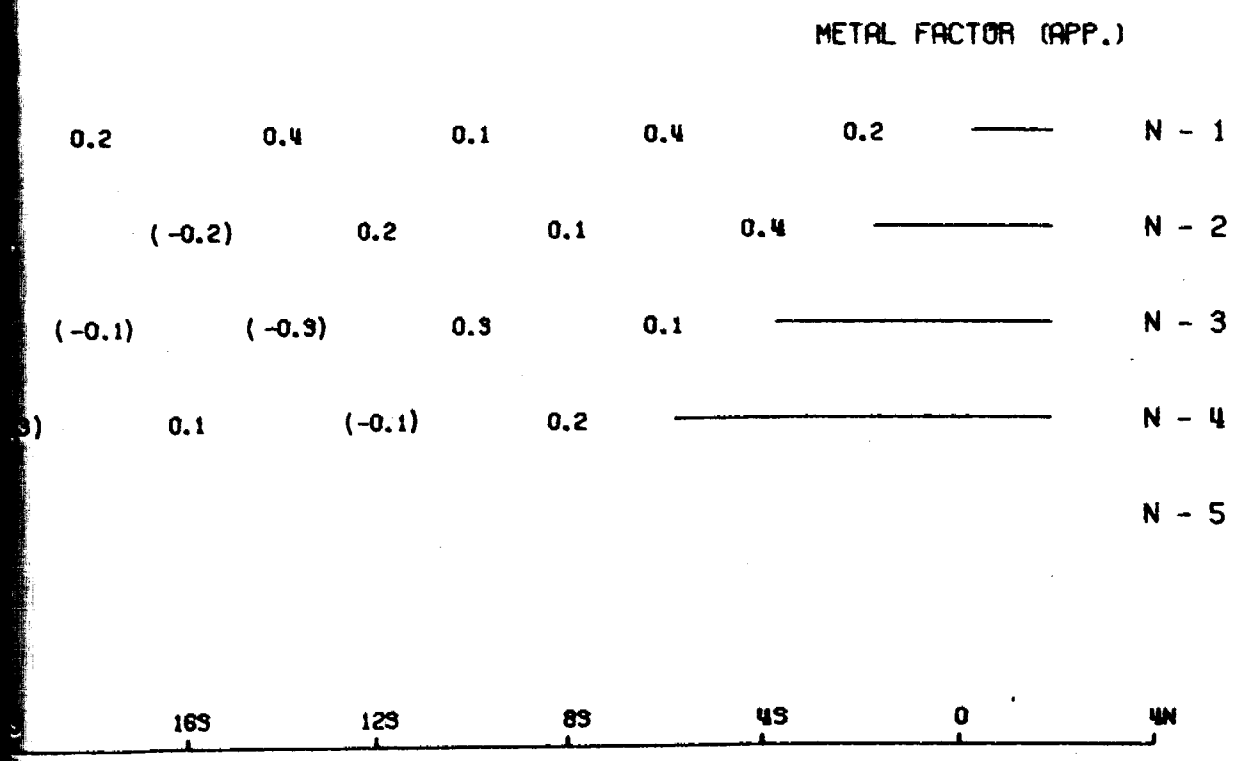
DWG. NO.- I.P.-5814-21

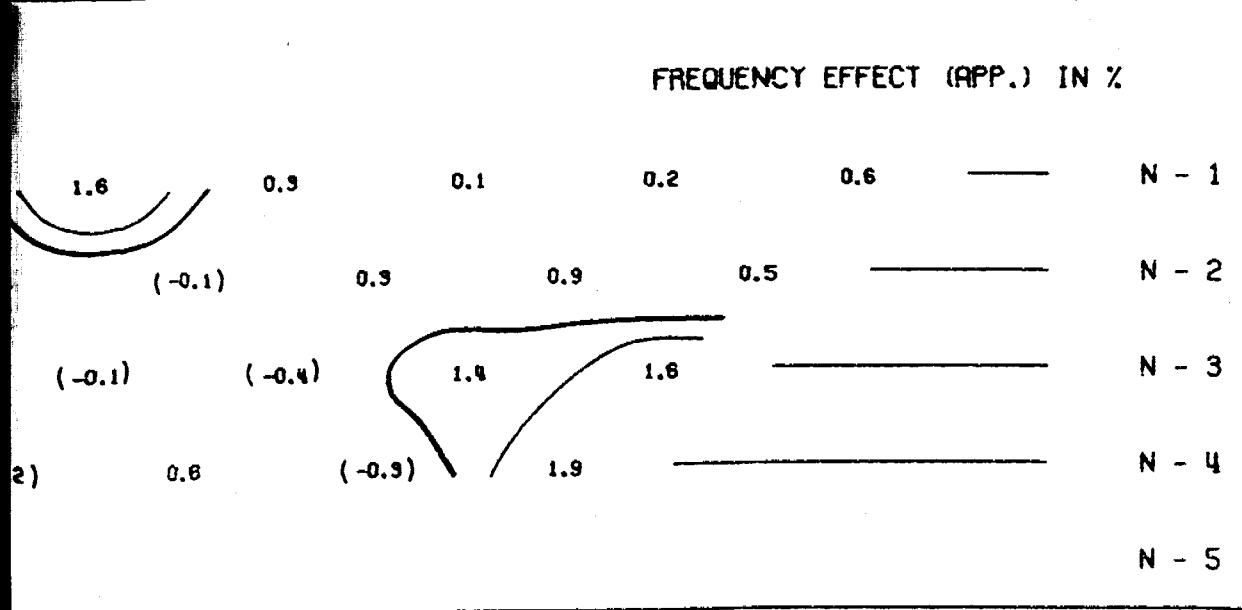
LAVA MINERALS LTD.

BENNEWEISS TOWNSHIP

SUDBURY M.D., ONTARIO

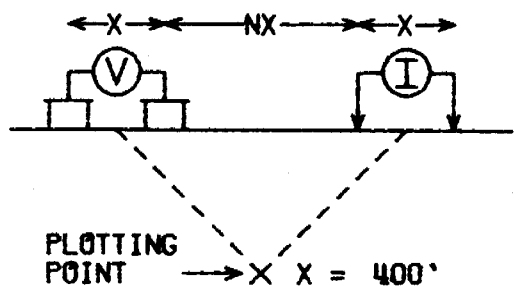






LINE NO.- 0

ELECTRODE CONFIGURATION



SURFACE PROJECTION
OF ANOMALOUS ZONES

DEFINITE ——————

PROBABLE ··········

POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED: _____

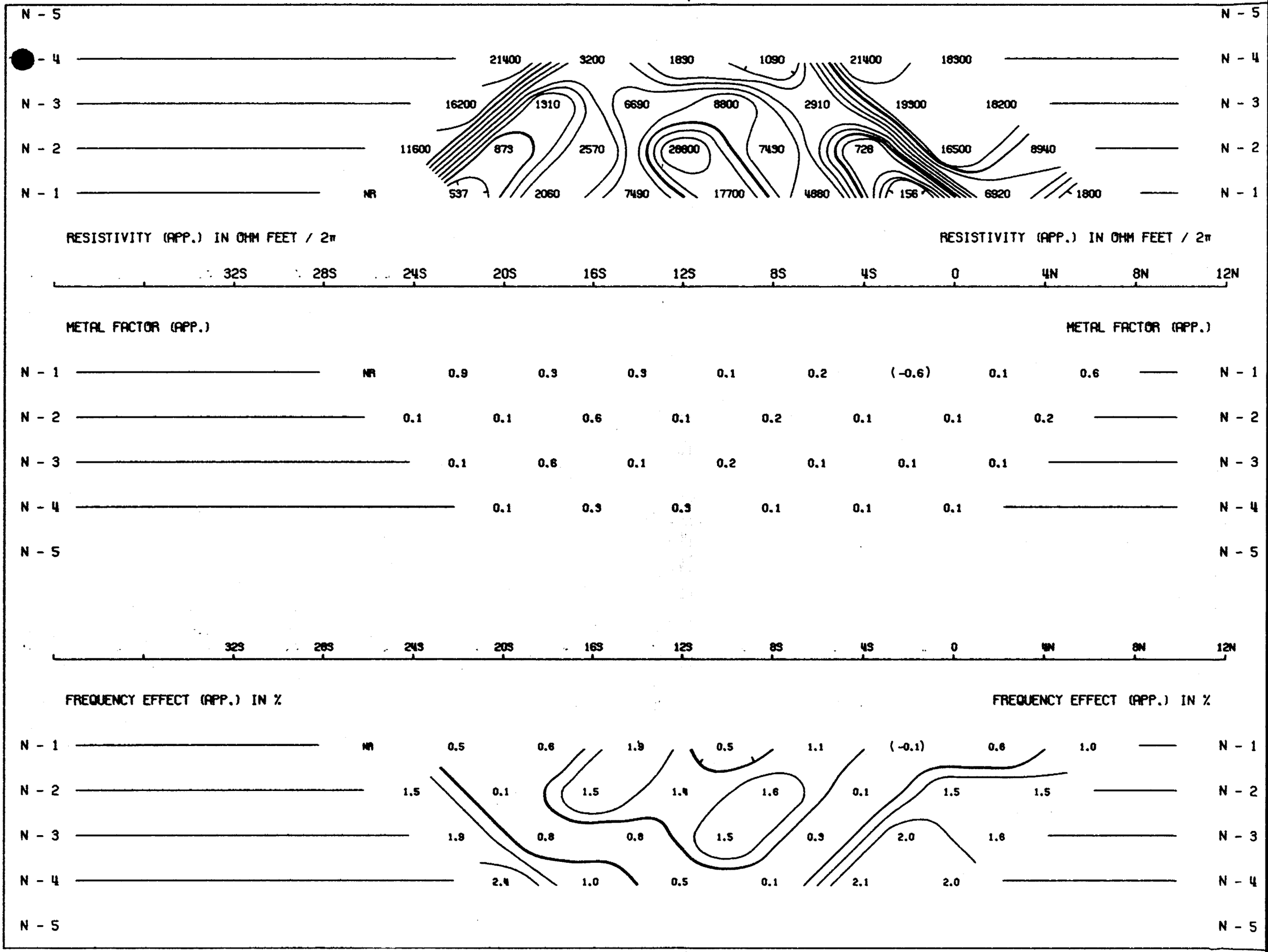
DATE: 29th July 71

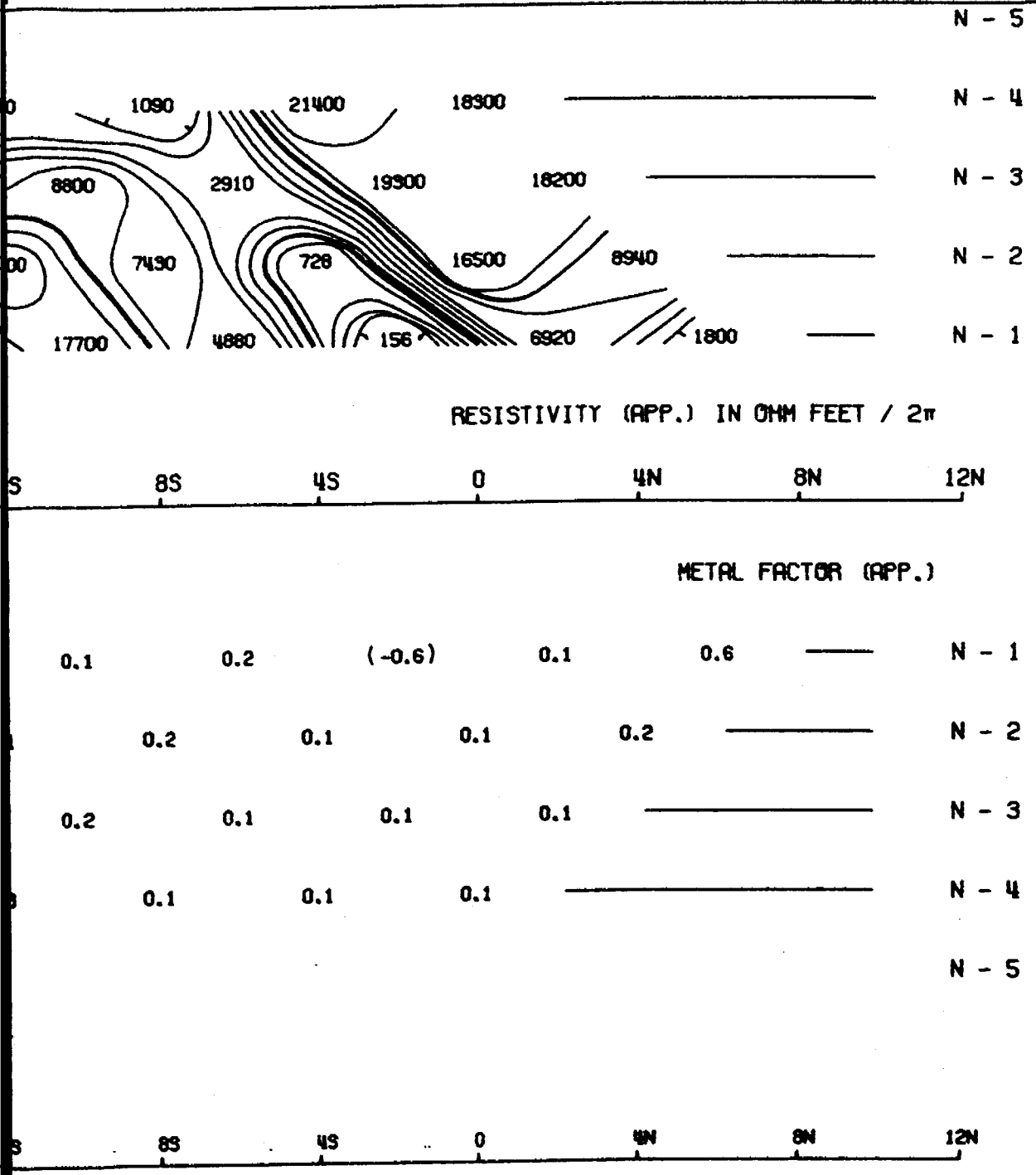
NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER


N - 5
N - 4
N - 3
N - 2
N - 1
21400
3200
1890
1090
21400
18300
16200
1310
6690
8800
2910
19300
18200
11600
873
2570
28800
7490
728
16500
8940
NR
537
2060
7490
17700
4880
156
6920
1800
RESISTIVITY (APP.) IN OHM FEET / 2π
32S
28S
24S
20S
16S
12S
8S
4S
0
4N
8N
12N
METAL FACTOR (APP.)
NR
0.9
0.3
0.3
0.1
0.2
(-0.6)
0.1
0.6
0.1
0.1
0.6
0.1
0.2
0.1
0.1
0.2
0.1
0.6
0.1
0.2
0.1
0.1
0.1
0.1
0.3
0.3
0.1
0.1
0.1
FREQUENCY EFFECT (APP.) IN %
NR
0.5
0.6
1.9
0.5
1.1
(-0.1)
0.6
1.0
1.5
0.1
1.5
1.4
1.6
0.1
1.5
1.5
1.9
0.8
0.8
1.5
0.3
2.0
1.6
2.4
1.0
0.5
0.1
2.1
2.0



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DWG. NO.- I.P.- 5814-18

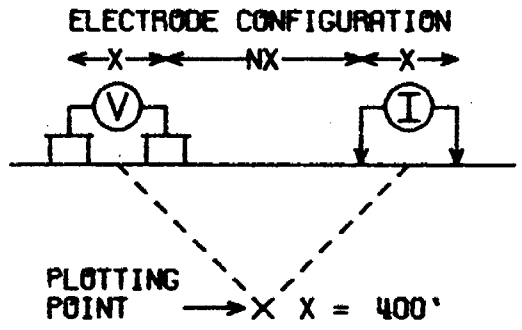
LAVA MINERALS LTD.

CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO

LINE NO.- 12W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ——————

PROBABLE ··········

POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED:

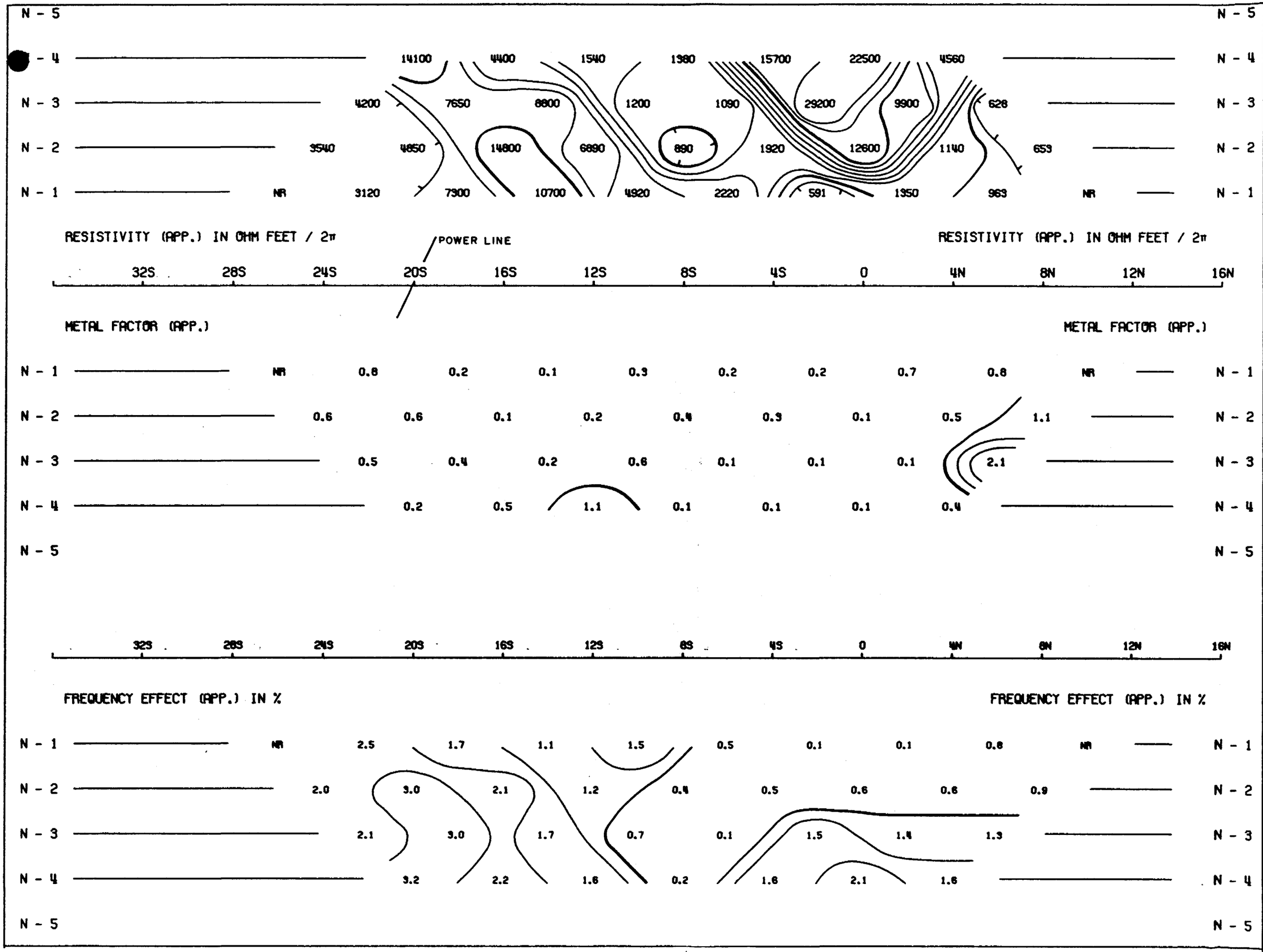
DATE: 29 July 71

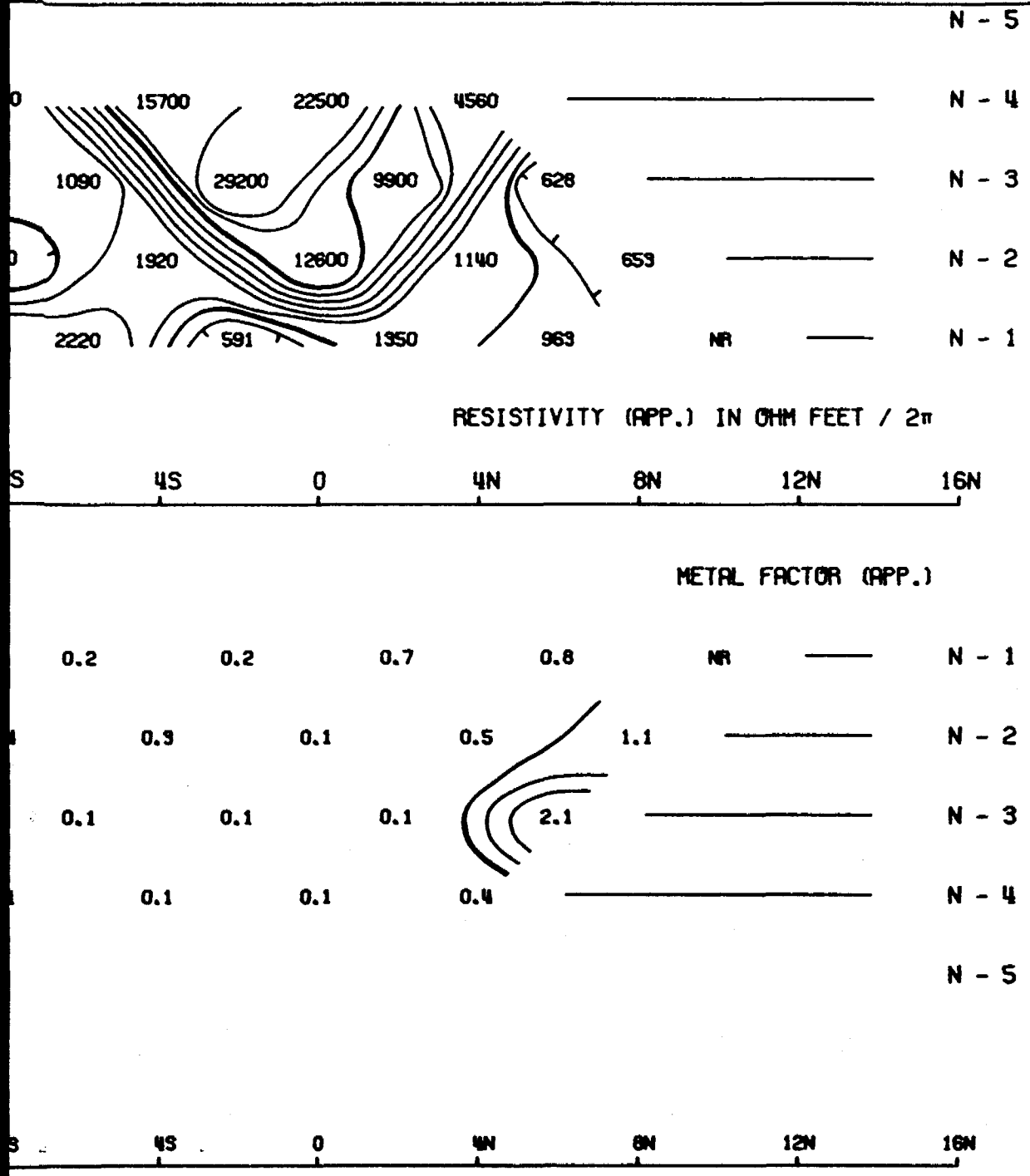
NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER


N - 5
N - 4
N - 3
N - 2
N - 1
14100 4400 1540 1380 15700 22500 4560
4200 7650 8800 1200 1090 29200 9900 628
3540 4850 14800 6890 890 1920 12600 1140 653
NR 3120 7300 10700 4920 2220 591 1350 963 NR
RESISTIVITY (APP.) IN OHM FEET / 2π
POWER LINE
32S 28S 24S 20S 16S 12S 8S 4S 0 4N 8N 12N 16N
METAL FACTOR (APP.)
NR 0.8 0.2 0.1 0.3 0.2 0.2 0.7 0.8 NR
0.6 0.6 0.1 0.2 0.4 0.3 0.1 0.5 1.1
0.5 0.4 0.2 0.6 0.1 0.1 0.1 2.1
0.2 0.5 1.1 0.1 0.1 0.1 0.4
FREQUENCY EFFECT (APP.) IN %
NR 2.5 1.7 1.1 1.5 0.5 0.1 0.1 0.8 NR
2.0 3.0 2.1 1.2 0.4 0.5 0.6 0.6 0.9
2.1 3.0 1.7 0.7 0.1 1.5 1.4 1.3
3.2 2.2 1.6 0.2 1.6 2.1 1.6



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DWG. NO.- I.P.-5814-16

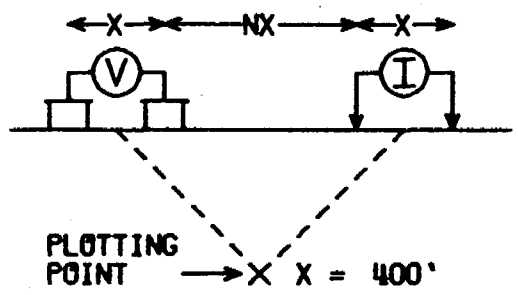
LAVA MINERALS LTD.

CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO

LINE NO.- 20W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ——————

PROBABLE ....

POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED:

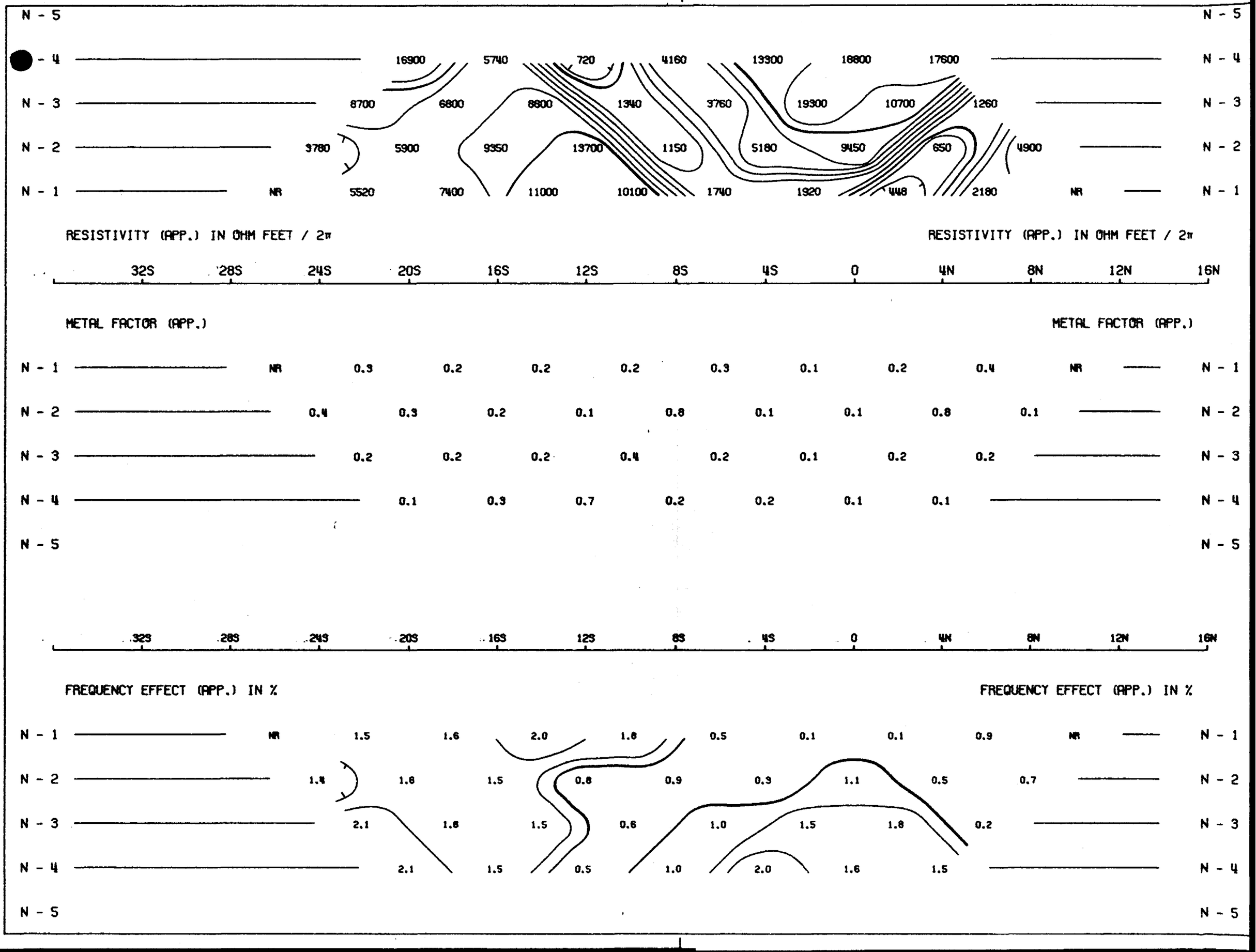
DATE: 29 July 71

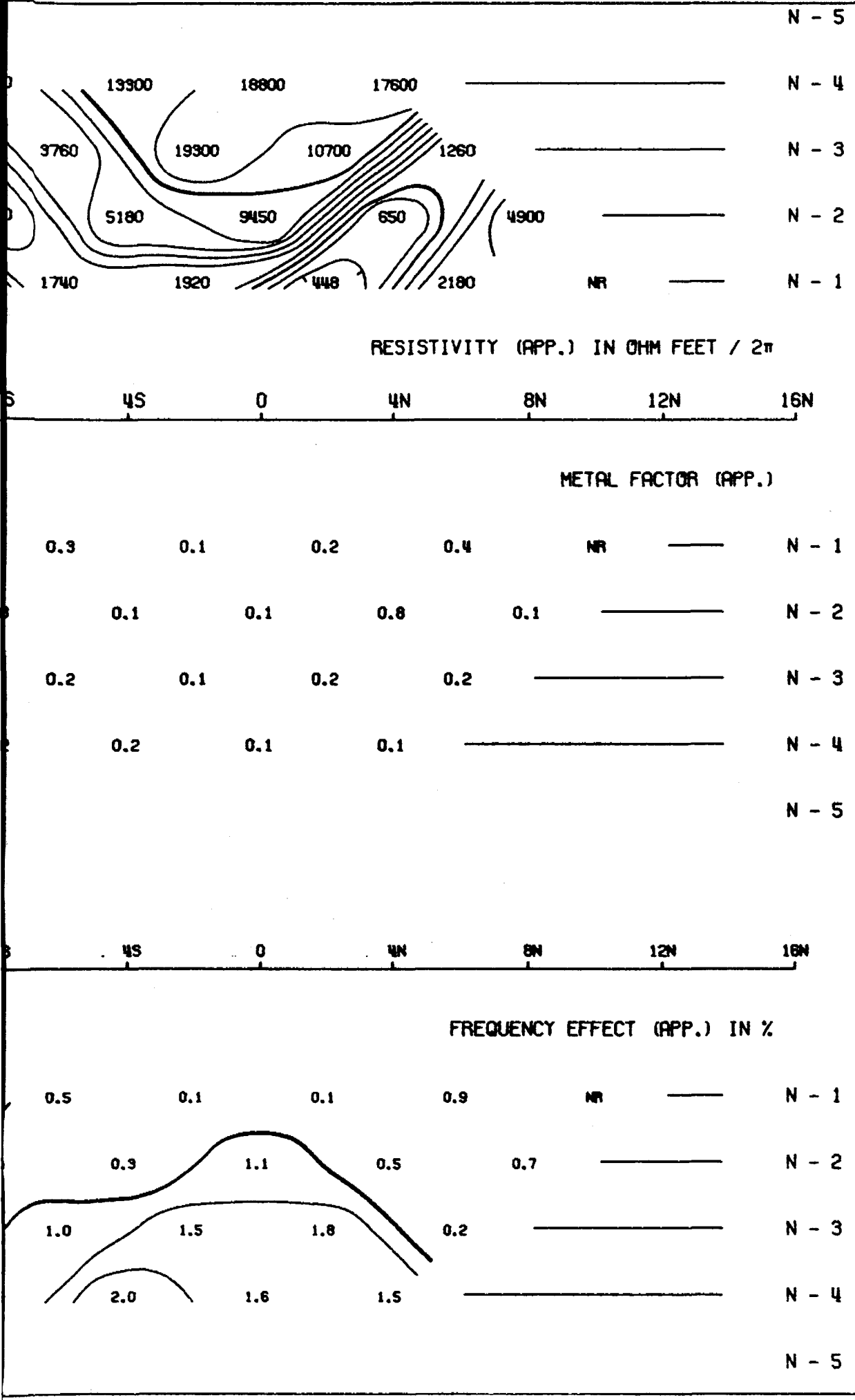
NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER


N - 5
N - 4
N - 3
N - 2
N - 1
16900 5740 720 4160 13300 18800 17600
8700 6800 8800 1340 3760 19300 10700 1260
3780 5900 9350 13700 1150 5180 9450 650 4900
NR 5520 7400 11000 10100 1740 1920 448 2180 NR
RESISTIVITY (APP.) IN OHM FEET / 2π
RESISTIVITY (APP.) IN OHM FEET / 2π
32S 28S 24S 20S 16S 12S 8S 4S 0 4N 8N 12N 16N
METAL FACTOR (APP.)
METAL FACTOR (APP.)
NR 0.3 0.2 0.2 0.2 0.3 0.1 0.2 0.4 NR
0.4 0.3 0.2 0.1 0.8 0.1 0.1 0.8 0.1
0.2 0.2 0.2 0.4 0.2 0.1 0.2 0.2
0.1 0.3 0.7 0.2 0.2 0.1 0.1
FREQUENCY EFFECT (APP.) IN %
FREQUENCY EFFECT (APP.) IN %
NR 1.5 1.6 2.0 1.8 0.5 0.1 0.1 0.9 NR
1.8 1.8 1.5 0.8 0.9 0.9 1.1 0.5 0.7
2.1 1.8 1.5 0.6 1.0 1.5 1.8 0.2
2.1 1.5 0.5 1.0 2.0 1.6 1.5



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DWG. NO.- I.P.-5814-17

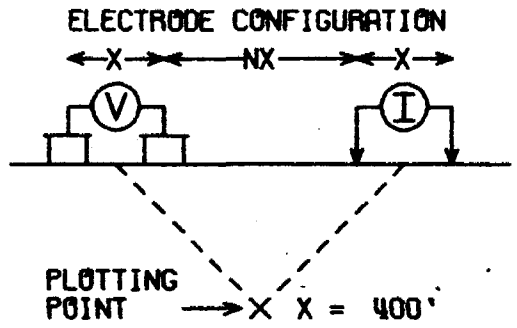
LAVA MINERALS LTD.

CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO

LINE NO.- 16W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ——————

PROBABLE ∙∙∙∙∙∙∙∙∙∙∙∙∙∙

POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

DATE SURVEYED: FEB 1971

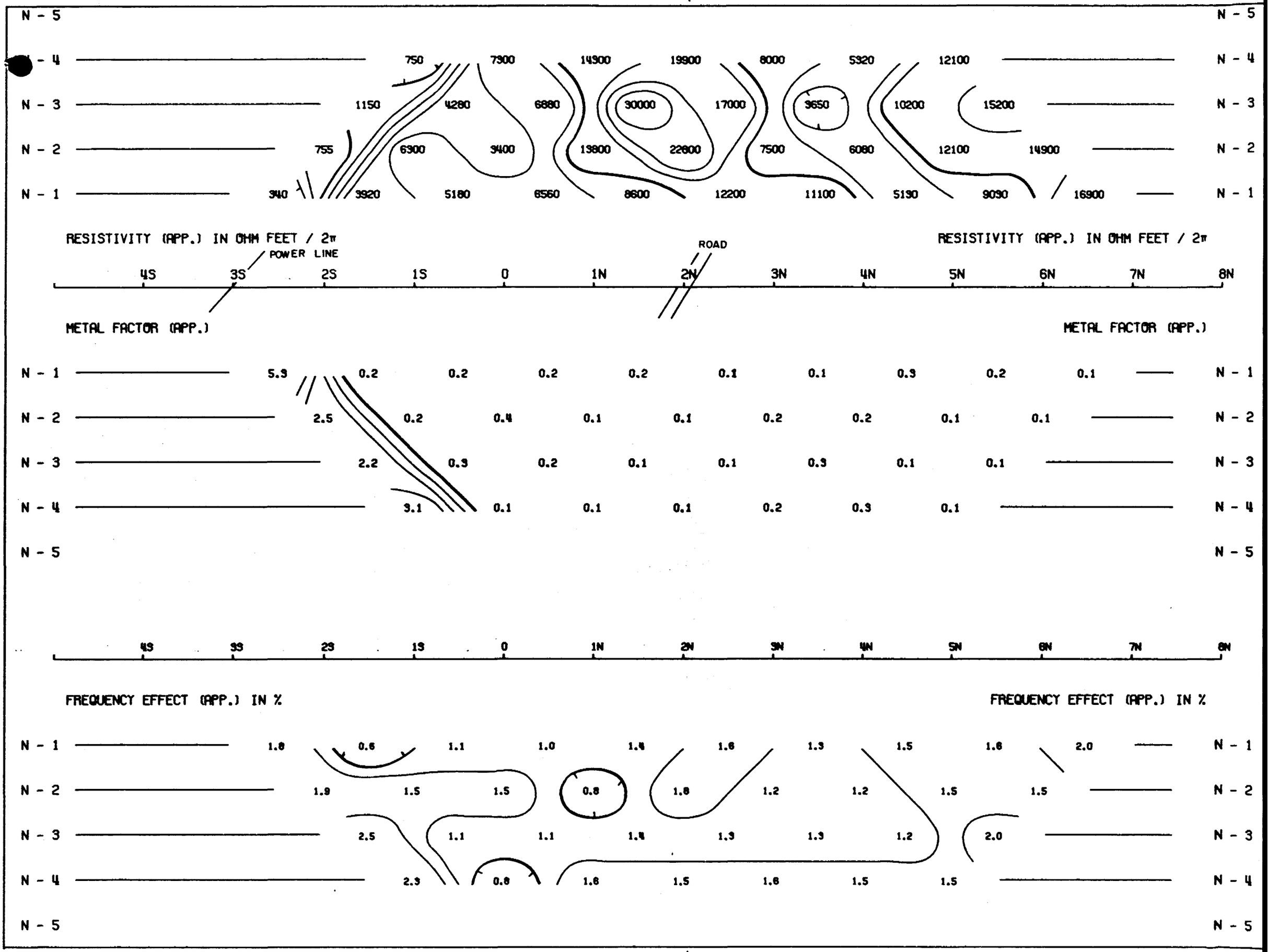
APPROVED: _____

DATE: July 71

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER


N - 5
N - 4
N - 3
N - 2
N - 1
750
7300
14900
19900
8000
5320
12100
1150
4280
6880
30000
17000
3650
10200
15200
755
6300
3400
13800
22800
7500
6080
12100
14900
340
3920
5180
6560
8600
12200
11100
5190
9030
16900
RESISTIVITY (APP.) IN OHM FEET / 2π
RESISTIVITY (APP.) IN OHM FEET / 2π
POWER LINE
ROAD
4S
3S
2S
1S
0
1N
2N
3N
4N
5N
6N
7N
8N
METAL FACTOR (APP.)
METAL FACTOR (APP.)
5.9
0.2
0.2
0.2
0.2
0.1
0.1
0.3
0.2
0.1
2.5
0.2
0.4
0.1
0.1
0.2
0.2
0.1
0.1
2.2
0.3
0.2
0.1
0.1
0.3
0.1
0.1
3.1
0.1
0.1
0.1
0.2
0.3
0.1
FREQUENCY EFFECT (APP.) IN %
FREQUENCY EFFECT (APP.) IN %
1.8
0.6
1.1
1.0
1.4
1.6
1.3
1.5
1.6
2.0
1.9
1.5
1.5
0.8
1.8
1.2
1.2
1.5
1.5
2.5
1.1
1.1
1.4
1.3
1.3
1.2
2.0
2.3
0.8
1.6
1.5
1.6
1.5
1.5

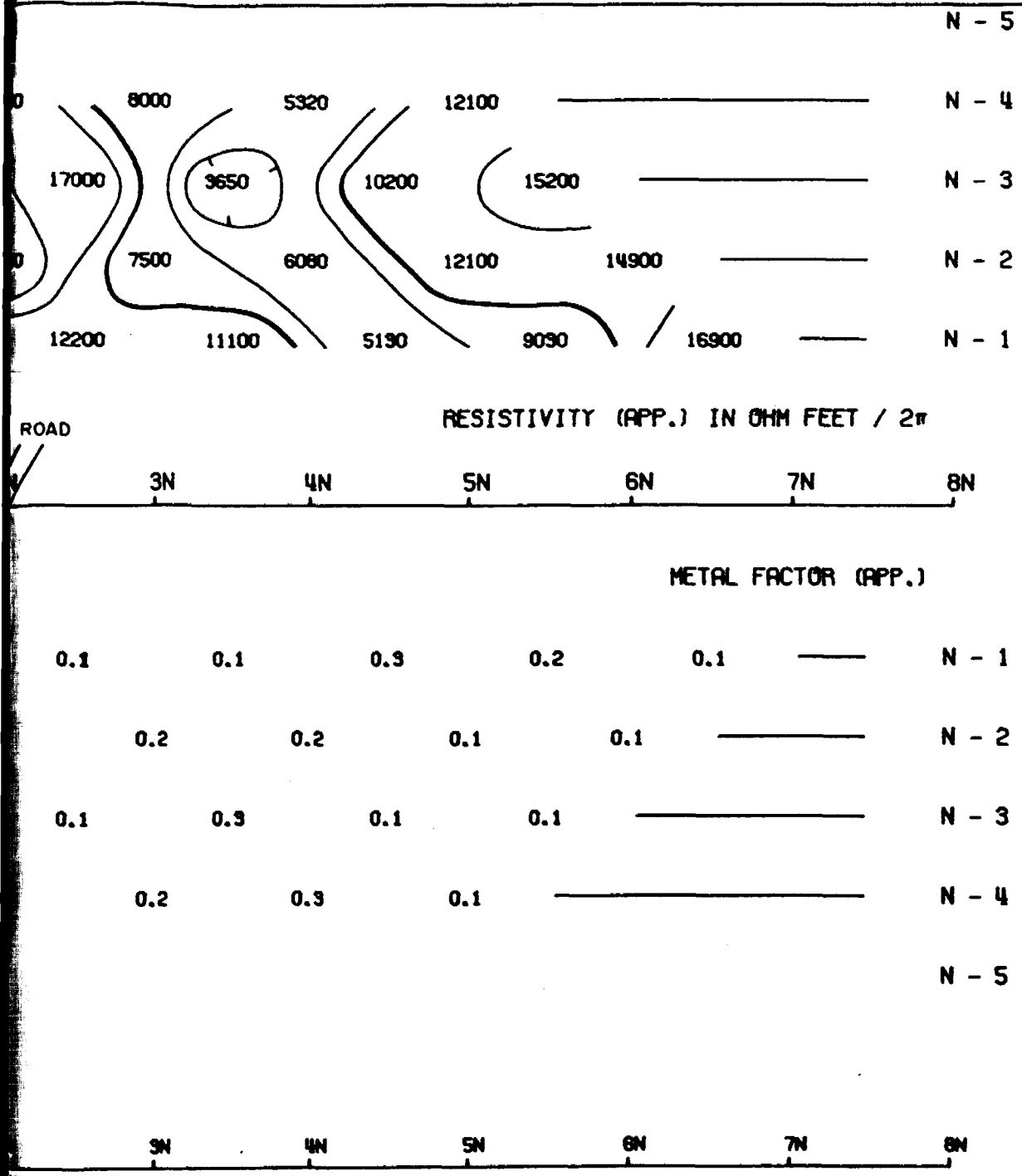
2.567

DWG. NO.- I.P.-5814-13

LAVA MINERALS LTD.

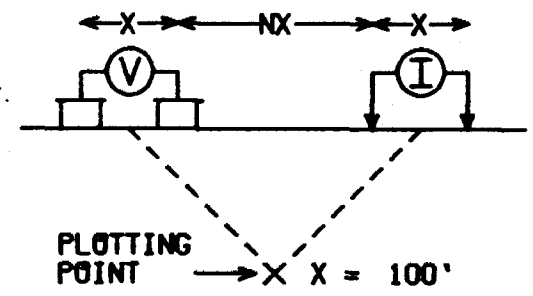
CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO



LINE NO.- 32W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ——————

PROBABLE ....

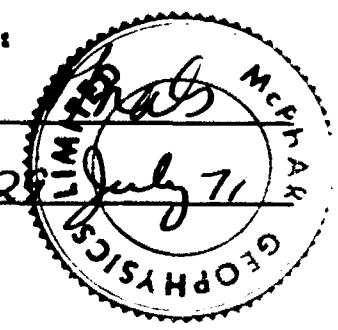
POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED:

DATE: 25 July 71

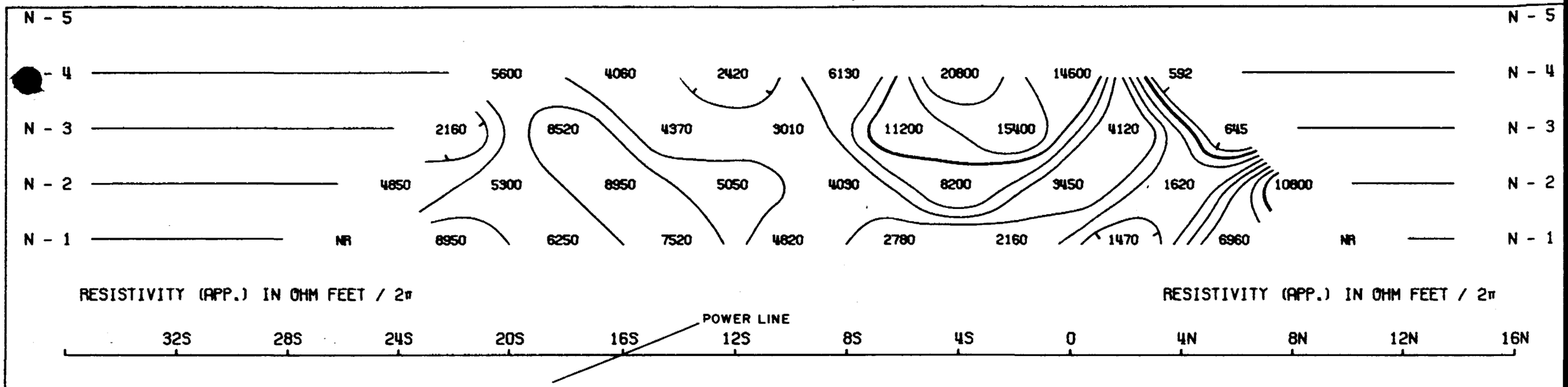


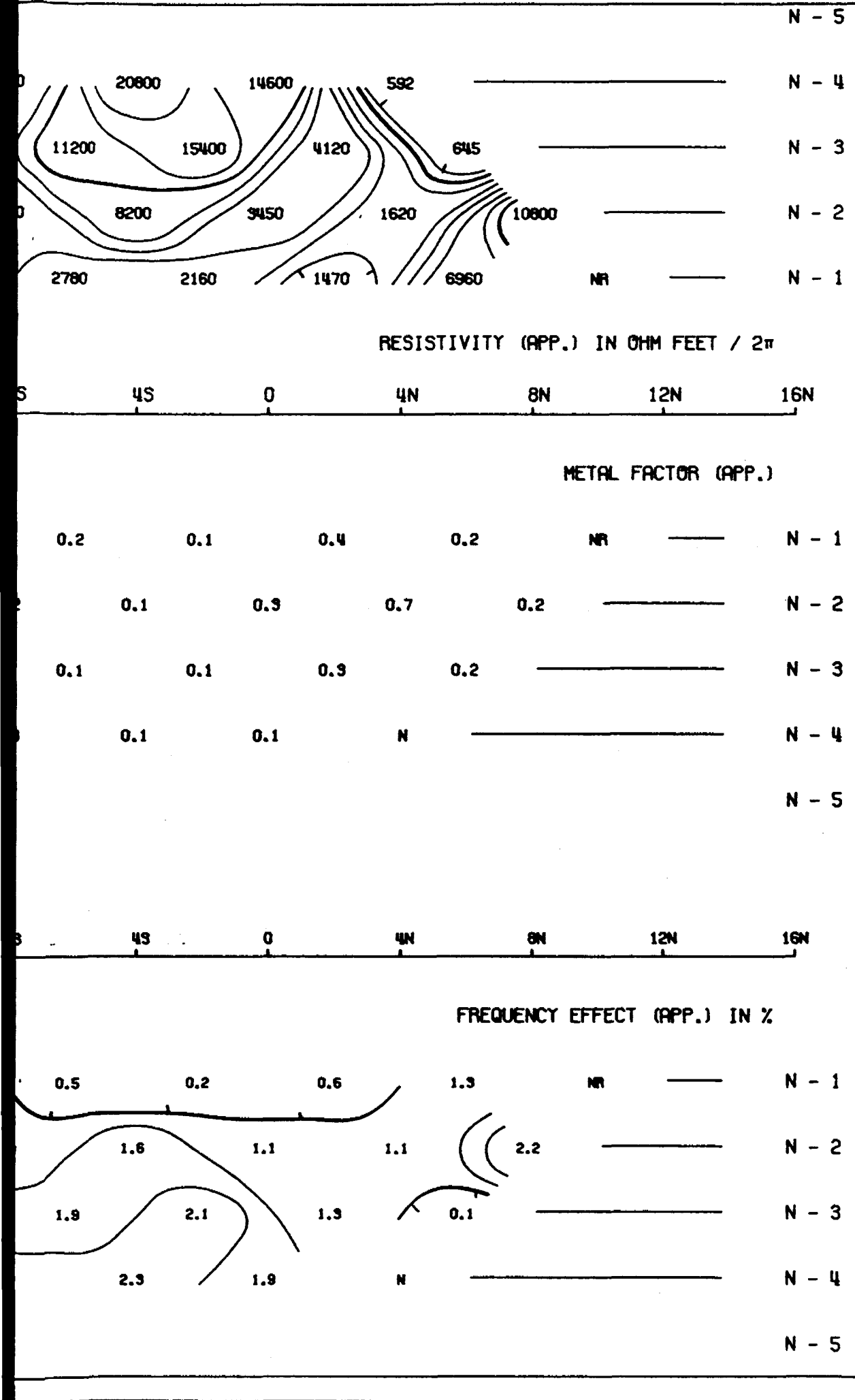
NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER


N - 5
N - 4
N - 3
N - 2
N - 1
5600 4060 2420 6130 20800 14600 592
2160 8520 4370 3010 11200 15400 4120 645
4850 5300 8950 5050 4030 8200 9450 1620 10800
NR 8950 6250 7520 4820 2780 2160 1470 6960 NR
RESISTIVITY (APP.) IN OHM FEET / 2π
RESISTIVITY (APP.) IN OHM FEET / 2π
POWER LINE
32S 28S 24S 20S 16S 12S 8S 4S 0 4N 8N 12N 16N
METAL FACTOR (APP.)
METAL FACTOR (APP.)
NR 0.2 0.3 0.3 0.3 0.2 0.1 0.4 0.2 NR
0.4 0.4 0.4 0.4 0.2 0.1 0.3 0.7 0.2
0.9 0.3 0.5 0.6 0.1 0.1 0.3 0.2
0.4 0.5 (0.5) 0.3 0.1 0.1 N
32S 28S 24S 20S 16S 12S 8S 4S 0 4N 8N 12N 16N
FREQUENCY EFFECT (APP.) IN %
FREQUENCY EFFECT (APP.) IN %
NR 1.9 2.1 2.0 1.4 0.5 0.2 0.6 1.3 NR
1.8 2.0 3.2 1.9 1.0 1.6 1.1 1.1 2.2
1.9 2.1 2.1 1.8 1.9 2.1 1.3 0.1
2.4 2.2 (1.3) 2.1 2.3 1.9 N



2.567

DWG. NO.- I.P.-5814-15

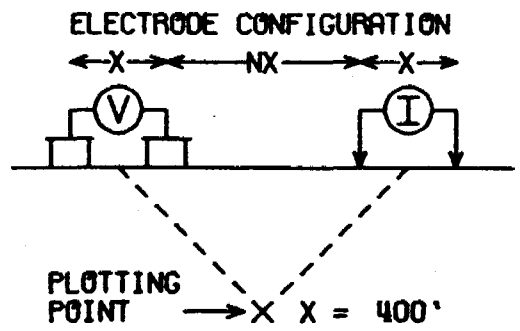
LAVA MINERALS LTD.

CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO

LINE NO.- 24W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ——————

PROBABLE ....

POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED:

DATE: 2 July 71

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER

RESISTIVITY (APP.) IN OHM FEET / 2π

	32S	28S	24S	20S	16S	12S	8S	4S	0	4N	8N	12N	16N
N - 1	NR	16400	4490	2320	3570	5620	8450	11600	19500	NR			
N - 2	10900	6780	2640	12500	4450	3280	8450	10800	7930				
N - 3	4200	4180	12700	11800	3200	3070	8280	7910					
N - 4	3280	17800	14200	7850	2880	2860	7650						
N - 5													

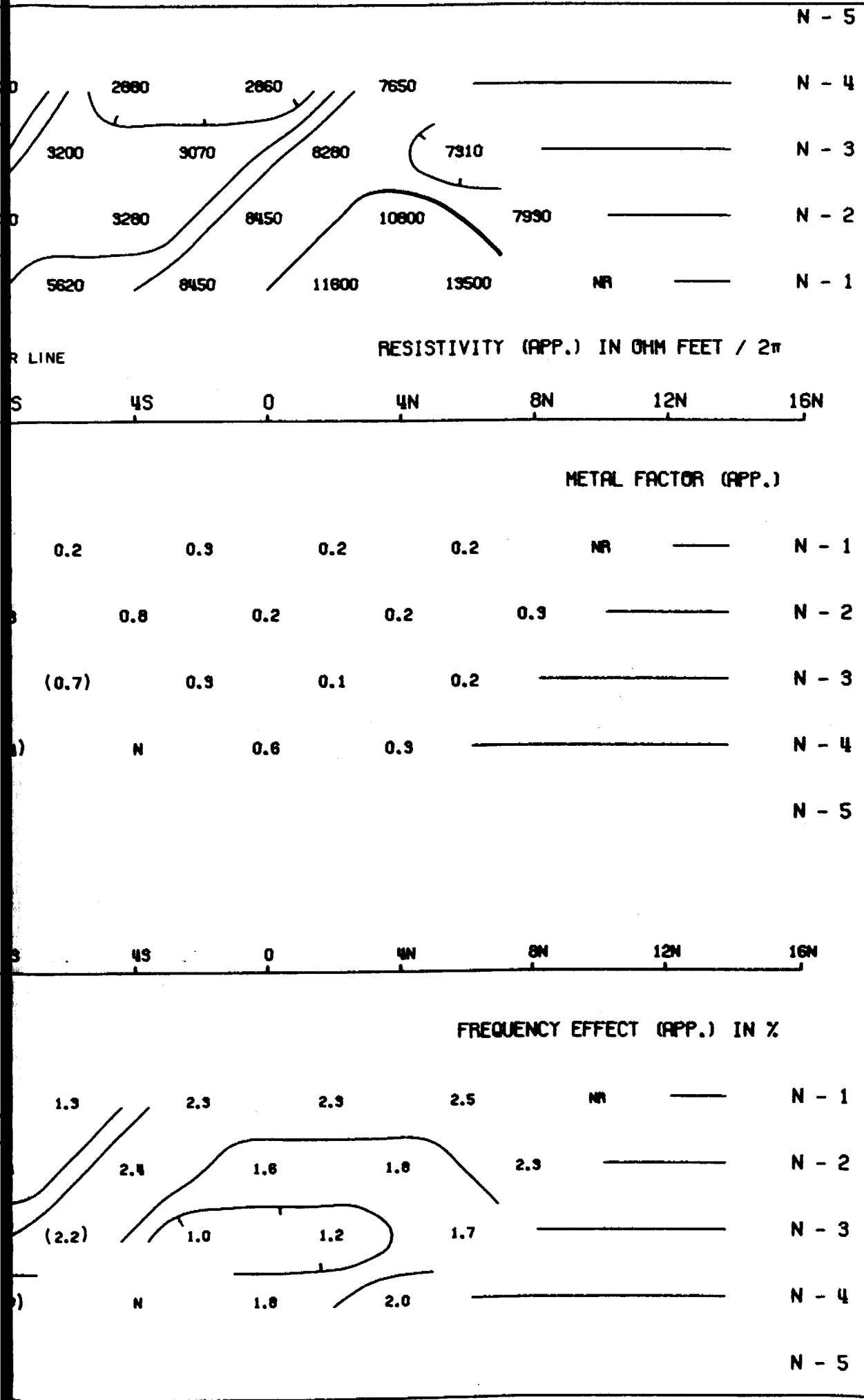
POWER LINE

METAL FACTOR (APP.)

	32S	28S	24S	20S	16S	12S	8S	4S	0	4N	8N	12N	16N
N - 1	NR	0.1	0.3	0.5	0.4	0.2	0.3	0.2	0.2	NR			
N - 2	0.2	0.3	0.2	0.2	0.3	0.8	0.2	0.2	0.3				
N - 3	0.5	0.4	0.1	0.1	(0.7)	0.3	0.1	0.2					
N - 4	0.7	0.1	0.2	(0.4)	N	0.6	0.3						
N - 5													

FREQUENCY EFFECT (APP.) IN %

	32S	28S	24S	20S	16S	12S	8S	4S	0	4N	8N	12N	16N
N - 1	NR	2.9	1.5	1.2	1.3	1.3	2.3	2.3	2.5	NR			
N - 2	2.1	2.2	0.7	2.0	1.4	2.4	1.6	1.8	2.9				
N - 3	1.9	1.8	1.6	1.7	(2.2)	1.0	1.2	1.7					
N - 4	2.2	2.2	2.7	(3.0)	N	1.8	2.0						
N - 5													



2.567

DWG. NO.- I.P.-5814-14

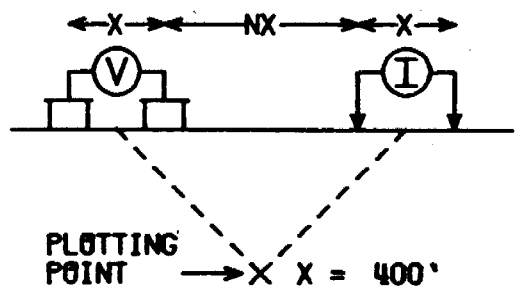
LAVA MINERALS LTD.

CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO

LINE NO.- 28W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ▬▬▬

PROBABLE ▪▪▪▪▪▪▪▪▪▪▪▪▪

POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED: _____

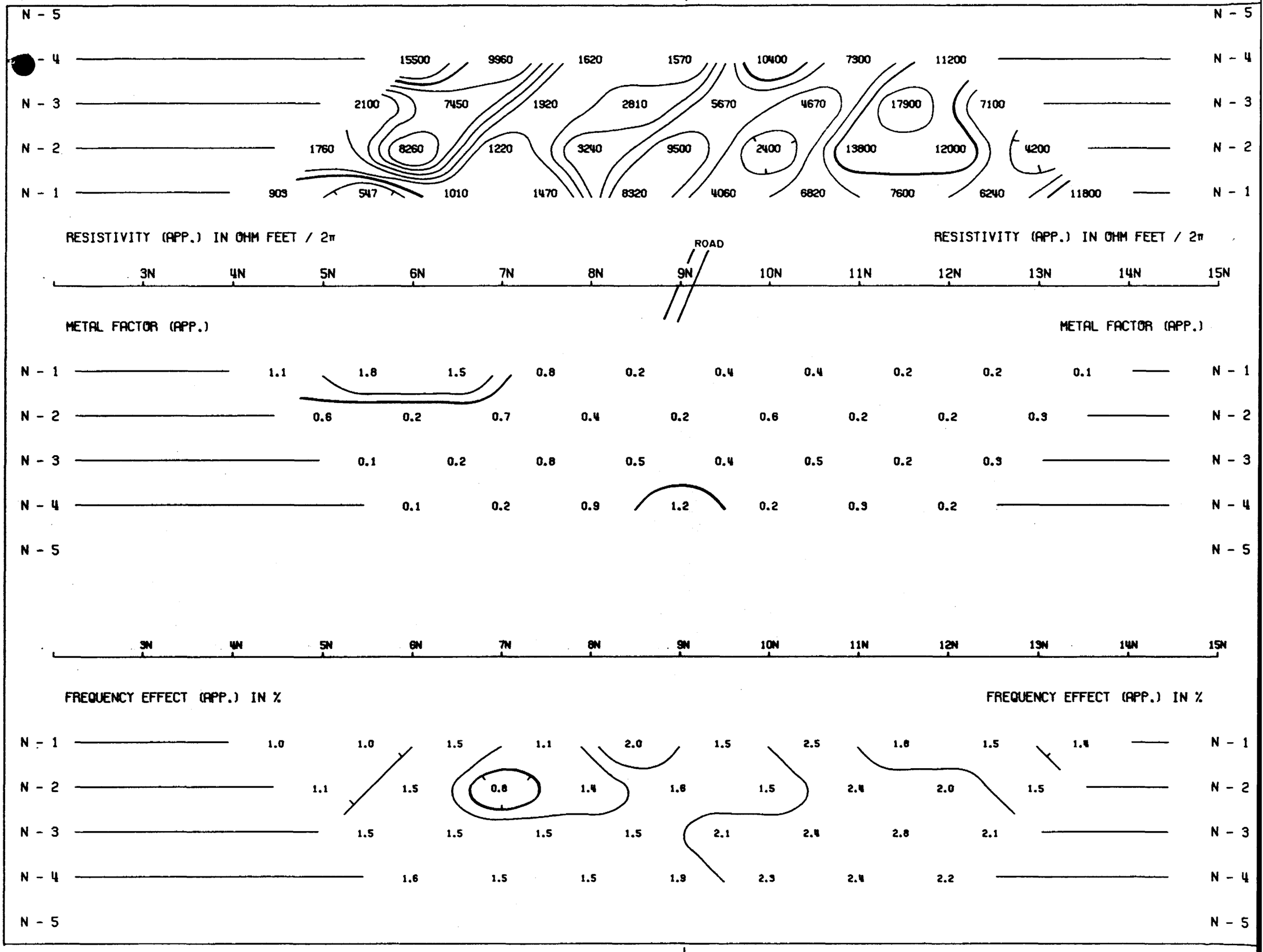
DATE: 23 July 71

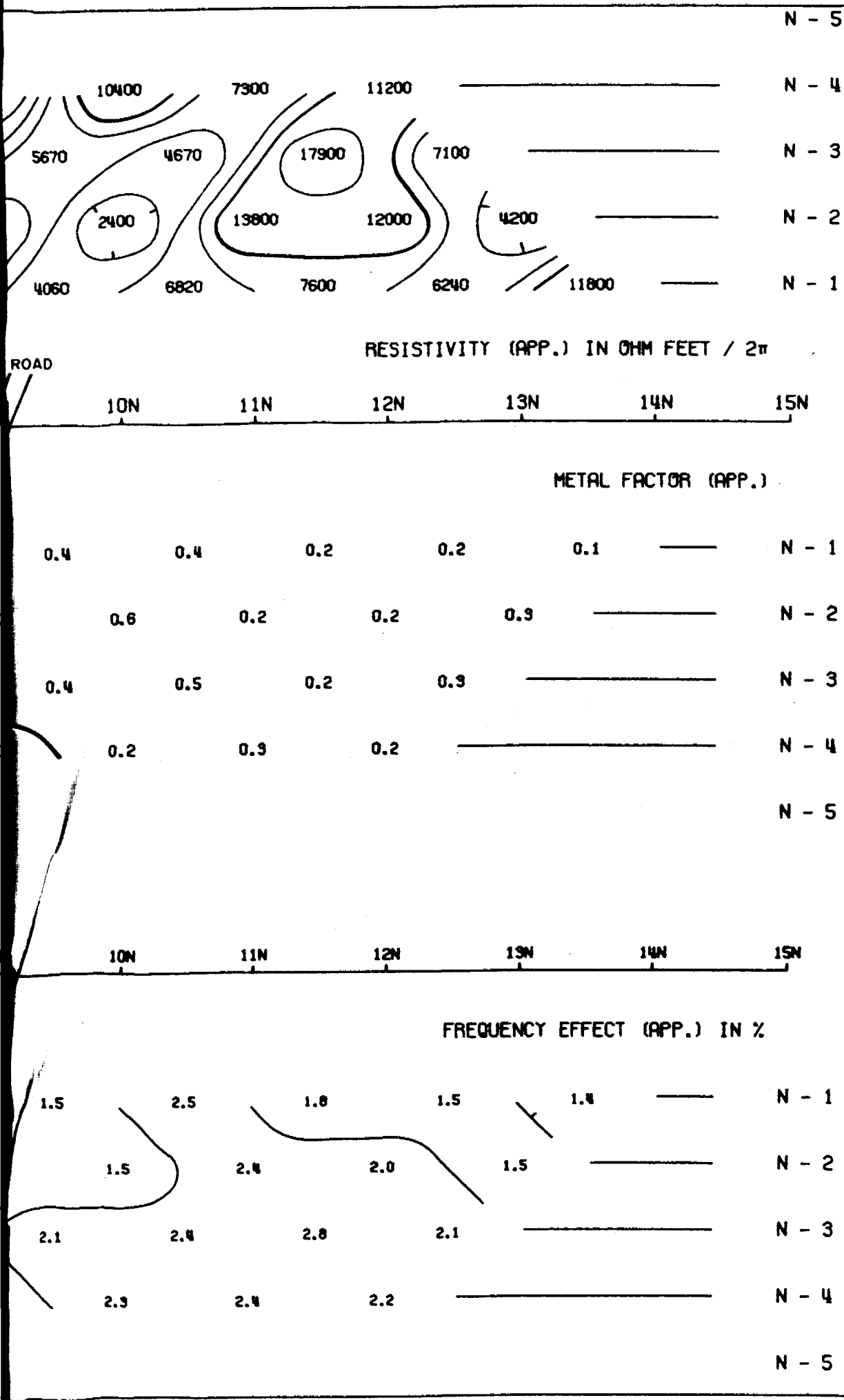
NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER


N - 5
N - 4
N - 3
N - 2
N - 1
15500
9960
1620
1570
10400
7300
11200
2100
7450
1920
2810
5670
4670
17900
7100
1760
8260
1220
3240
9500
2400
13800
12000
4200
909
547
1010
1470
8320
4060
6820
7600
6240
11800
RESISTIVITY (APP.) IN OHM FEET / 2π
ROAD
3N
4N
5N
6N
7N
8N
9N
10N
11N
12N
13N
14N
15N
METAL FACTOR (APP.)
1.1
1.8
1.5
0.8
0.2
0.4
0.4
0.2
0.2
0.1
0.6
0.2
0.7
0.4
0.2
0.6
0.2
0.2
0.3
0.1
0.2
0.8
0.5
0.4
0.5
0.2
0.3
0.1
0.2
0.9
1.2
0.2
0.3
0.2
FREQUENCY EFFECT (APP.) IN %
1.0
1.0
1.5
1.1
2.0
1.5
2.5
1.8
1.5
1.8
1.1
1.5
0.8
1.4
1.6
1.5
2.4
2.0
1.5
1.5
1.5
1.5
1.5
2.1
2.4
2.8
2.1
1.6
1.5
1.5
1.9
2.3
2.4
2.2



2.567

DWG. NO.- I.P.-5814-II

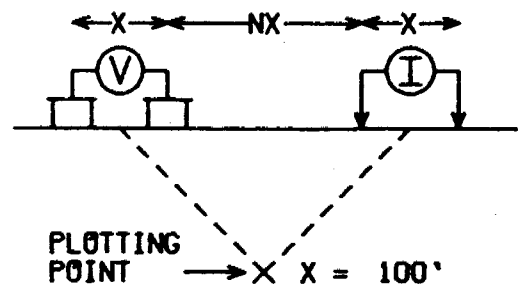
LAVA MINERALS LTD.

CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO

LINE NO.- 36W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ▬▬▬

PROBABLE ▪▪▪▪▪▪▪▪▪▪▪▪▪

POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED: _____

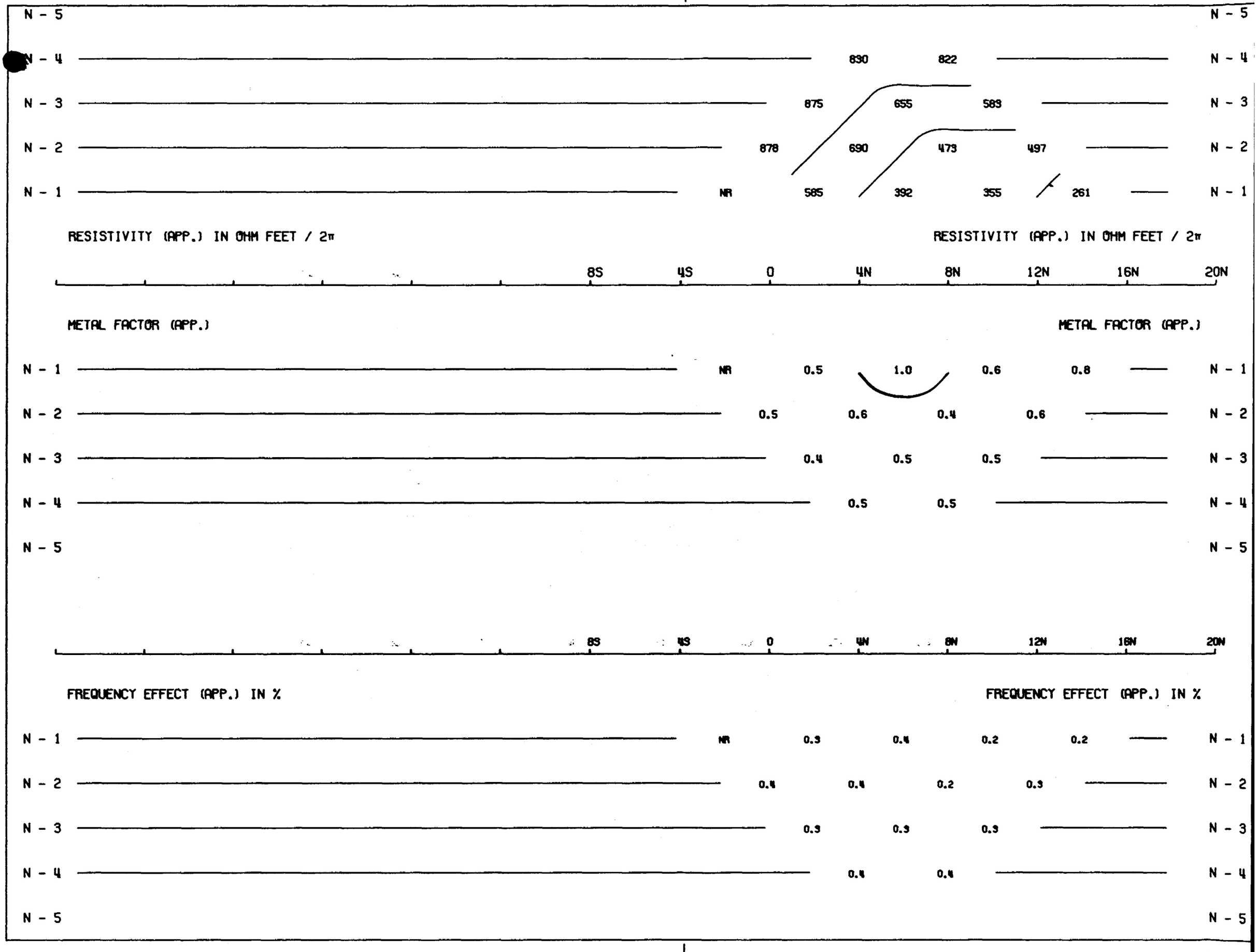
DATE: July 71

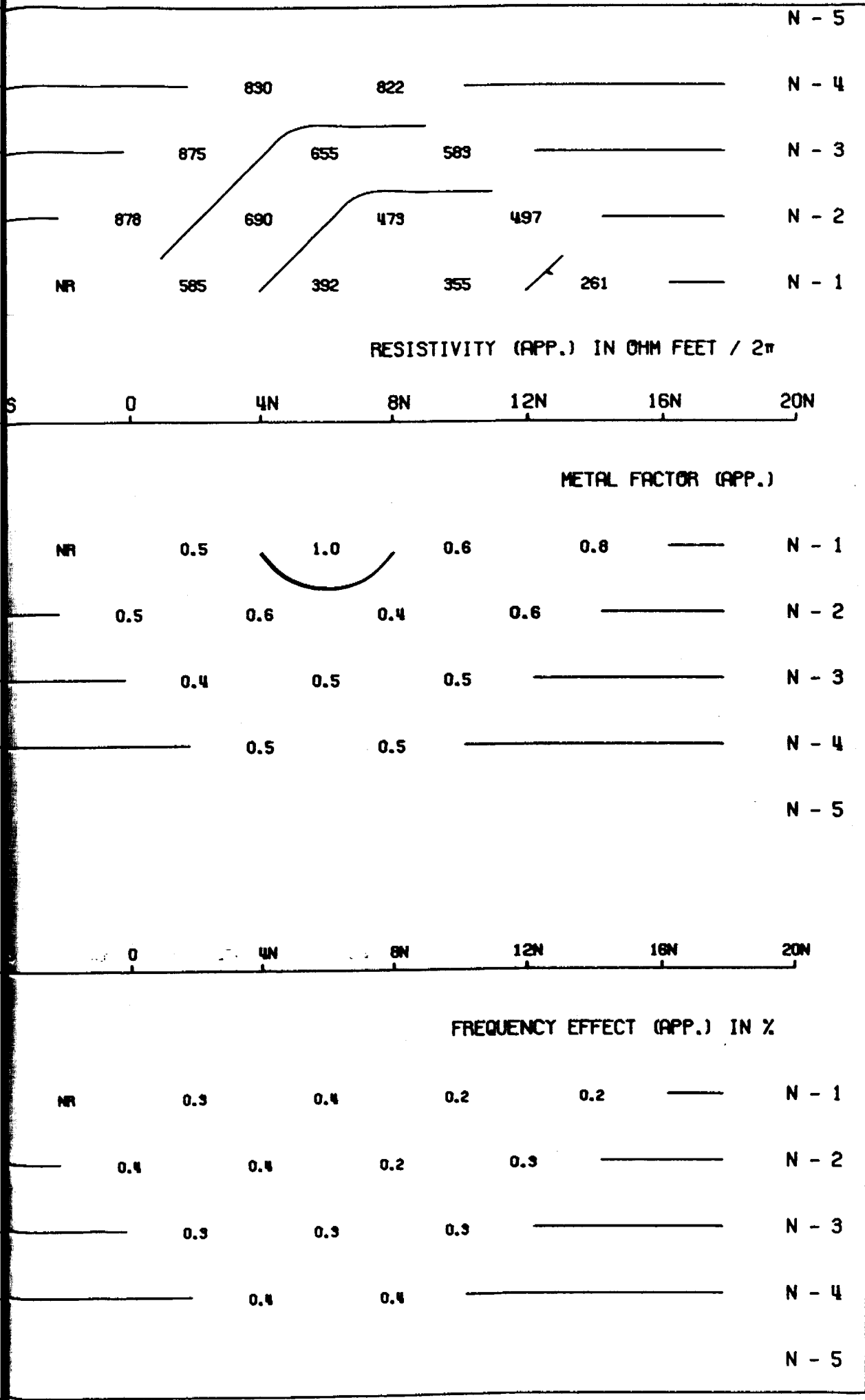
NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER


N - 5
N - 4
N - 3
N - 2
N - 1
830
822
875
655
583
878
690
473
497
NR
585
392
355
261
RESISTIVITY (APP.) IN OHM FEET / 2π
8S
4S
0
4N
8N
12N
16N
20N
METAL FACTOR (APP.)
NR
0.5
1.0
0.6
0.8
0.5
0.6
0.4
0.6
0.4
0.5
0.5
0.5
0.5
FREQUENCY EFFECT (APP.) IN %
NR
0.3
0.4
0.2
0.2
0.4
0.4
0.2
0.3
0.3
0.3
0.3
0.4
0.4



2.567

DWG. NO.- I.P.-5814-1

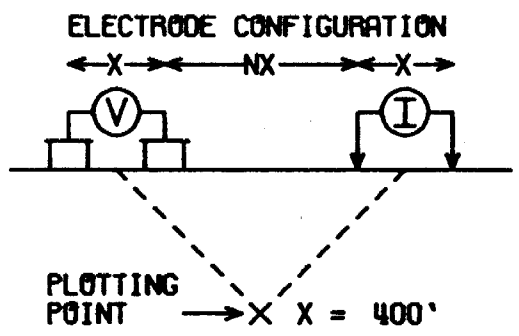
LAVA MINERALS LTD.

CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO

LINE NO.- 72W

ELECTRODE CONFIGURATION



SURFACE PROJECTION
OF ANOMALOUS ZONES

DEFINITE ——————

PROBABLE ....

POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED: _____

DATE: July 71

NOTE: CONTOURS AT
LOGARITHMIC INTERVALS
1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER

N - 5

N - 4

N - 3

N - 2 — 509

N - 1 — NR

RESISTIVITY (APP.) IN OHM FEET / 2π

28S 24S 20

METAL FACTOR (APP.)

N - 1 — NR

N - 2 — 0.2

N - 3

N - 4

N - 5

28S 24S 20

FREQUENCY EFFECT (APP.) IN %

N - 1 — NR

N - 2 — 1.0

N - 3

N - 4

N - 5

	6080	4720	NR	6900	3250	5420		
4860		3840	5210	6600	3970		4600	
5090		2610	3790	6570	2870		4480	3580
NR	2200	2680	3570	2740	4820		2800	

28S 24S 20S 16S 12S 8S 4S 0 4N

	NR	0.2	0.5	0.4	0.5	0.2	0.2	
0.2		0.2	0.5	0.2	0.6	0.2		0.4
0.2		0.2	0.3	(0.4)		0.5	0.4	
	0.2	0.2	NR	0.2		0.6		0.3

28S 24S 20S 16S 12S 8S 4S 0 4N

	NR	0.5	1.4	1.3	1.5	0.8	0.6	
1.0		0.4	1.8	1.4	1.6	0.7		1.5
0.8		0.9	1.4	(2.8)		1.8	1.8	
	1.0	1.1	NR	1.8		1.8		1.5

RESISTIVITY (APP.) IN OHM FEET / 2π

POWER LINE

	16S	12S	8S	4S	0	4N	8N	12N	16N	20N	24N	28N	
	6080	4720	NR	8300	3250	5420	7920	5900	6650				N - 4
	4860	3840	5210	6600	3970	4600	4910	4700	4700	5230			N - 3
	2610	3790	6570	2870		4480	3580	2660	3550	3290	5480		N - 2
	2200	2680	3570	2740	4820	2800	1870	1950	2090	2940	NR		N - 1

METAL FACTOR (APP.)

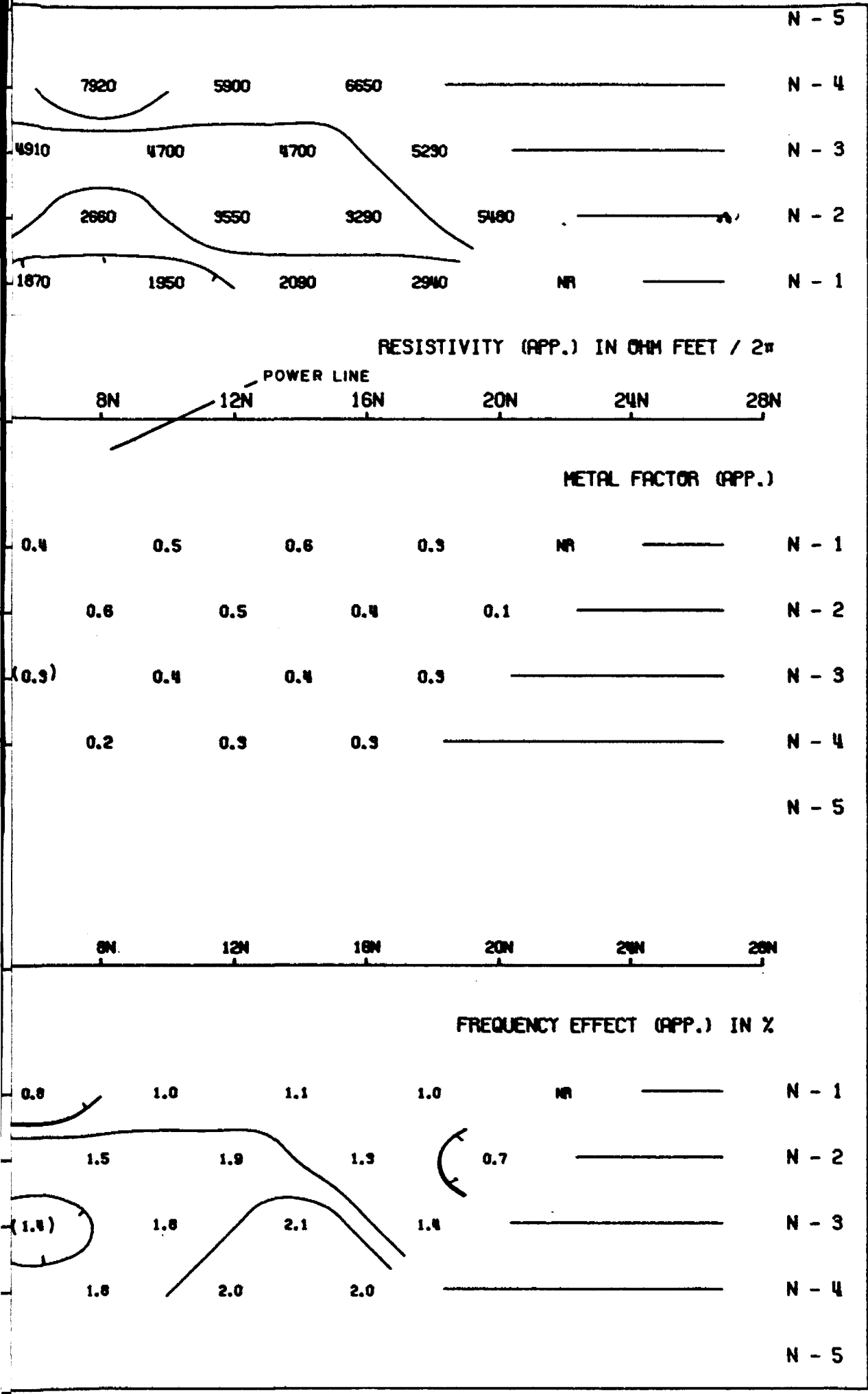
	16S	12S	8S	4S	0	4N	8N	12N	16N	20N	24N	28N	
	0.2	0.5	0.4	0.5	0.2	0.2	0.4	0.5	0.6	0.9	NR		N - 1
	0.2	0.5	0.2	0.6	0.2	0.4	0.6	0.5	0.4	0.1			N - 2
	0.2	0.2	0.3	(0.4)	0.5	0.4	(0.3)	0.4	0.4	0.3			N - 3
		0.2	0.2	NR	0.2	0.6	0.3	0.2	0.3	0.3			N - 4
													N - 5

FREQUENCY EFFECT (APP.) IN %

	16S	12S	8S	4S	0	4N	8N	12N	16N	20N	24N	28N	
	0.5	1.4	1.3	1.5	0.8	0.6	0.8	1.0	1.1	1.0	NR		N - 1
	0.4	1.8	1.4	1.6	0.7	1.5	1.5	1.9	1.3	0.7			N - 2
	0.8	0.9	1.4	(2.8)	1.8	1.8	(1.4)	1.8	2.1	1.4			N - 3
		1.0	1.1	NR	1.8	1.8	1.5	1.8	2.0	2.0			N - 4
													N - 5

2.567

DWG. NO.- I.P.-5814-9



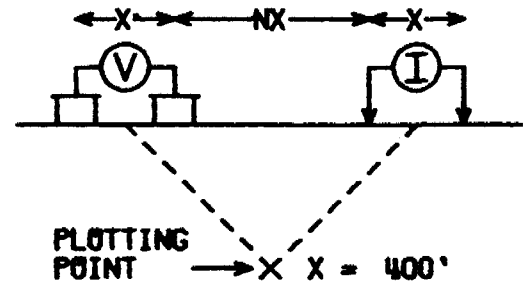
LAVA MINERALS LTD.

CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO

LINE NO.- 40W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ▬▬▬▬

PROBABLE ▪▪▪▪▪▪▪▪▪▪▪▪▪▪

POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED: _____

DATE: 29 July 71

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER

N - 5

N - 4

N - 3

N - 2 — 769

N - 1 — 4680

RESISTIVITY (APP.) IN OHM FEET / 2π

28S 24S 20

METAL FACTOR (APP.)

N - 1 — 0.4

N - 2 — 0.

N - 3

N - 4

N - 5

28S 24S 20

FREQUENCY EFFECT (APP.) IN %

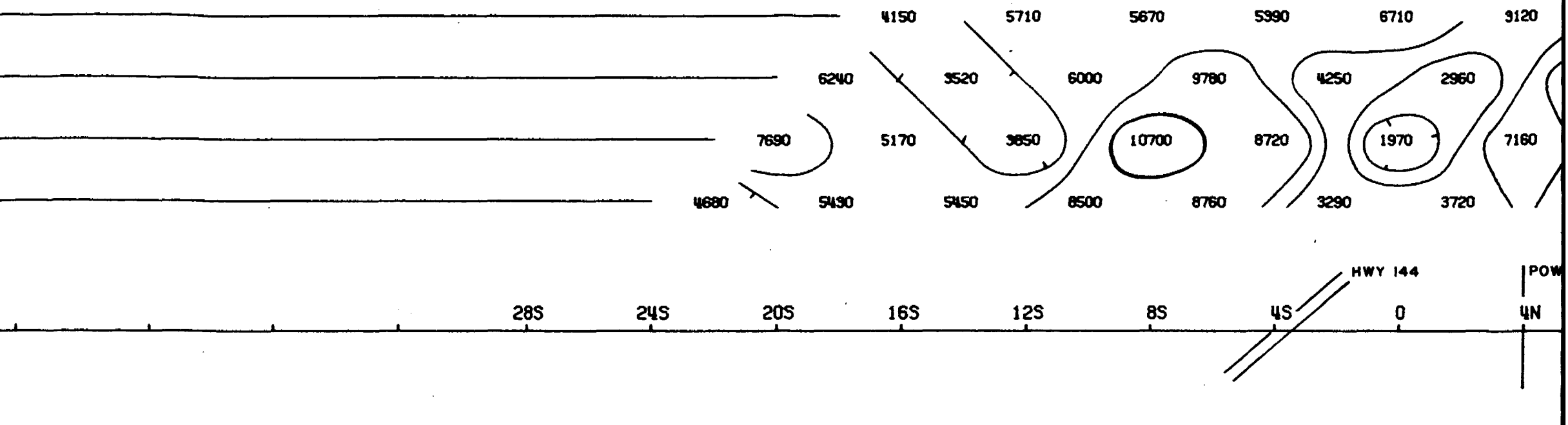
N - 1 — 1.7

N - 2 — 2.

N - 3

N - 4

N - 5


4150
5710
5670
5990
6710
3120
6240
3520
6000
9780
4250
2960
7690
5170
3850
10700
8720
1970
7160
4680
5430
5450
8500
8760
3290
3720
HWY 144
POW
28S
24S
20S
16S
12S
8S
4S
0
4N
0.4
0.3
0.4
0.2
0.2
0.5
0.5
0.3
0.4
0.4
0.2
0.2
0.5
0.2
0.5
0.4
0.3
0.1
0.5
0.6
0.4
0.3
0.2
0.4
N
(0.4)
26S
24S
20S
16S
12S
8S
4S
0
4N
1.7
1.7
2.2
1.9
2.1
1.5
1.7
2.0
1.9
1.5
1.8
2.0
0.9
1.4
3.2
1.5
1.8
1.2
2.1
1.7
1.7
1.9
1.4
2.1
N
(1.4)

RESISTIVITY (APP.) IN OHM FEET / 2π

	16S	12S	8S	4S	0	4N	8N	12N	16N	20N	24N	28N	
	4150	5710	5670	5390	6710	3120	6100	NR	3890				N - 4
6240	3520	6000	9780	4250	2960	8400	6300	4000	6150				N - 3
5170	3850	10700	8720	1970	7160	12000	2480	5610	6850				N - 2
5490	5450	8500	8760	3290	3720	9600	6450	4710	7910	5820			N - 1

HWY 144 — POWER LINE

METAL FACTOR (APP.)

	16S	12S	8S	4S	0	4N	8N	12N	16N	20N	24N	28N	
0.9	0.4	0.2	0.2	0.5	0.5	0.2	0.9	0.4	0.2	0.9			N - 1
	0.4	0.4	0.2	0.2	0.5	0.2	0.2	0.9	0.9	0.2			N - 2
0.5	0.4	0.3	0.1	0.5	0.6	0.3	(0.3)	0.4	0.4				N - 3
	0.4	0.3	0.2	0.4	N	(0.4)	0.1	NR	0.4				N - 4
													N - 5

	16S	12S	8S	4S	0	4N	8N	12N	16N	20N	24N	28N

FREQUENCY EFFECT (APP.) IN %

1.7	2.2	1.9	2.1	1.5	1.7	1.6	2.0	1.7	1.5	1.6			N - 1
1.9	1.5	1.6	2.0	0.9	1.4	2.0	2.2	1.7	1.5				N - 2
3.2	1.5	1.6	1.2	2.1	1.7	2.1	(1.7)	1.4	2.2				N - 3
	1.7	1.9	1.4	2.1	N	(1.4)	0.8	NR	1.4				N - 4
													N - 5

2.567

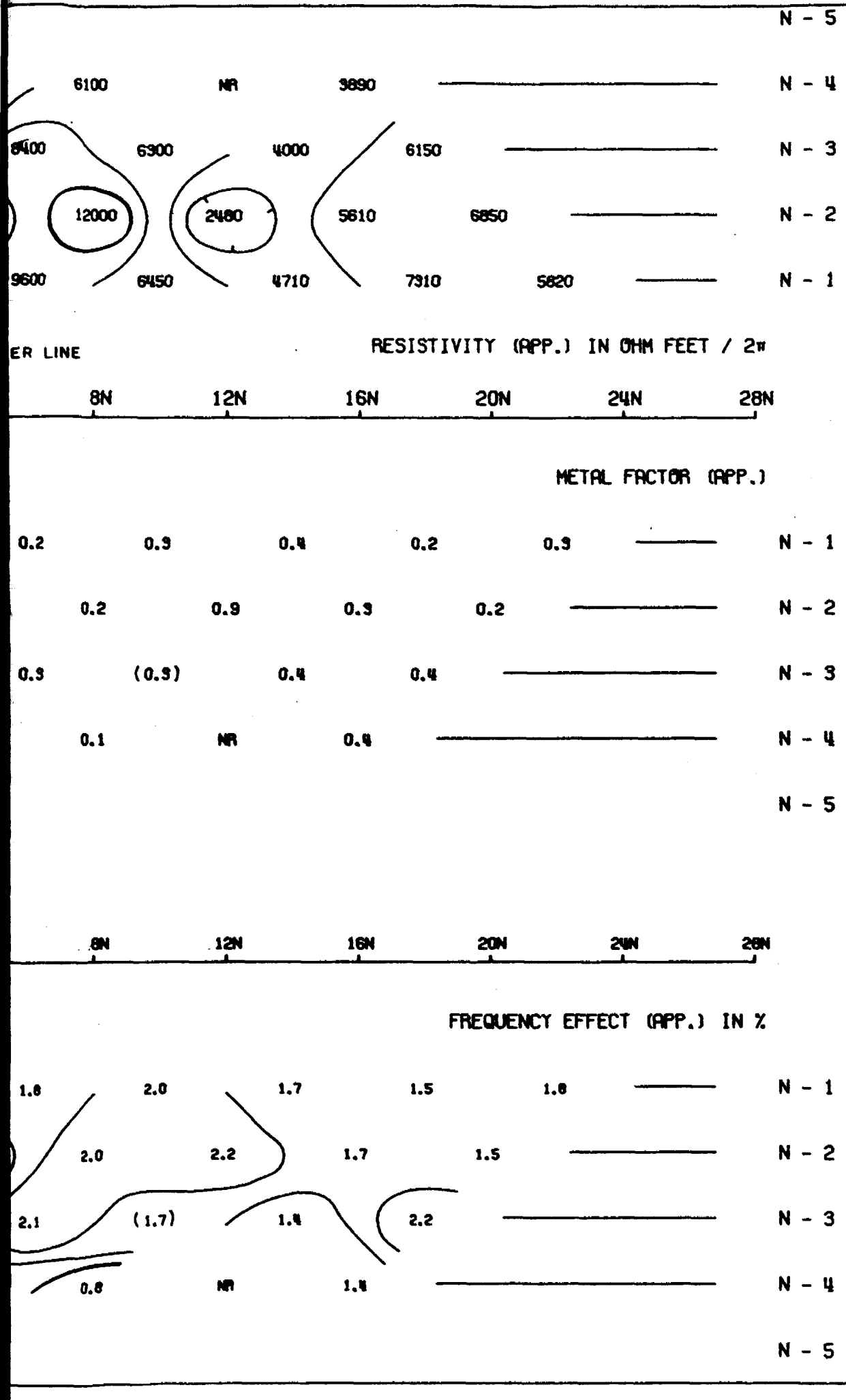
DWG. NO.- I.P.-5814-10

LAVA MINERALS LTD.

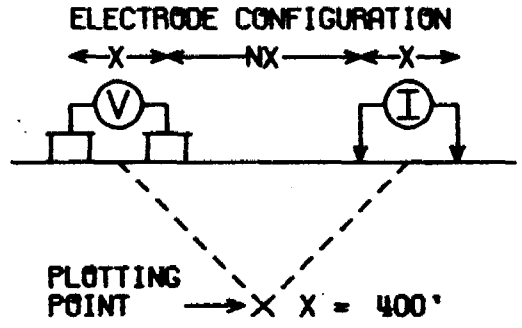
CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO

LINE NO.- 36W



ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ——————

PROBABLE ▪▪▪▪▪▪▪▪▪▪▪▪▪▪

POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED:

DATE: July 71

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER

N - 5

N - 4

N - 3

N - 2 — 5082

N - 1 — 6210

RESISTIVITY (APP.) IN OHM FEET / 2π

28S 24S 20

METAL FACTOR (APP.)

N - 1 — 0.2

N - 2 — 0.1

N - 3

N - 4

N - 5

28S 24S 20

FREQUENCY EFFECT (APP.) IN %

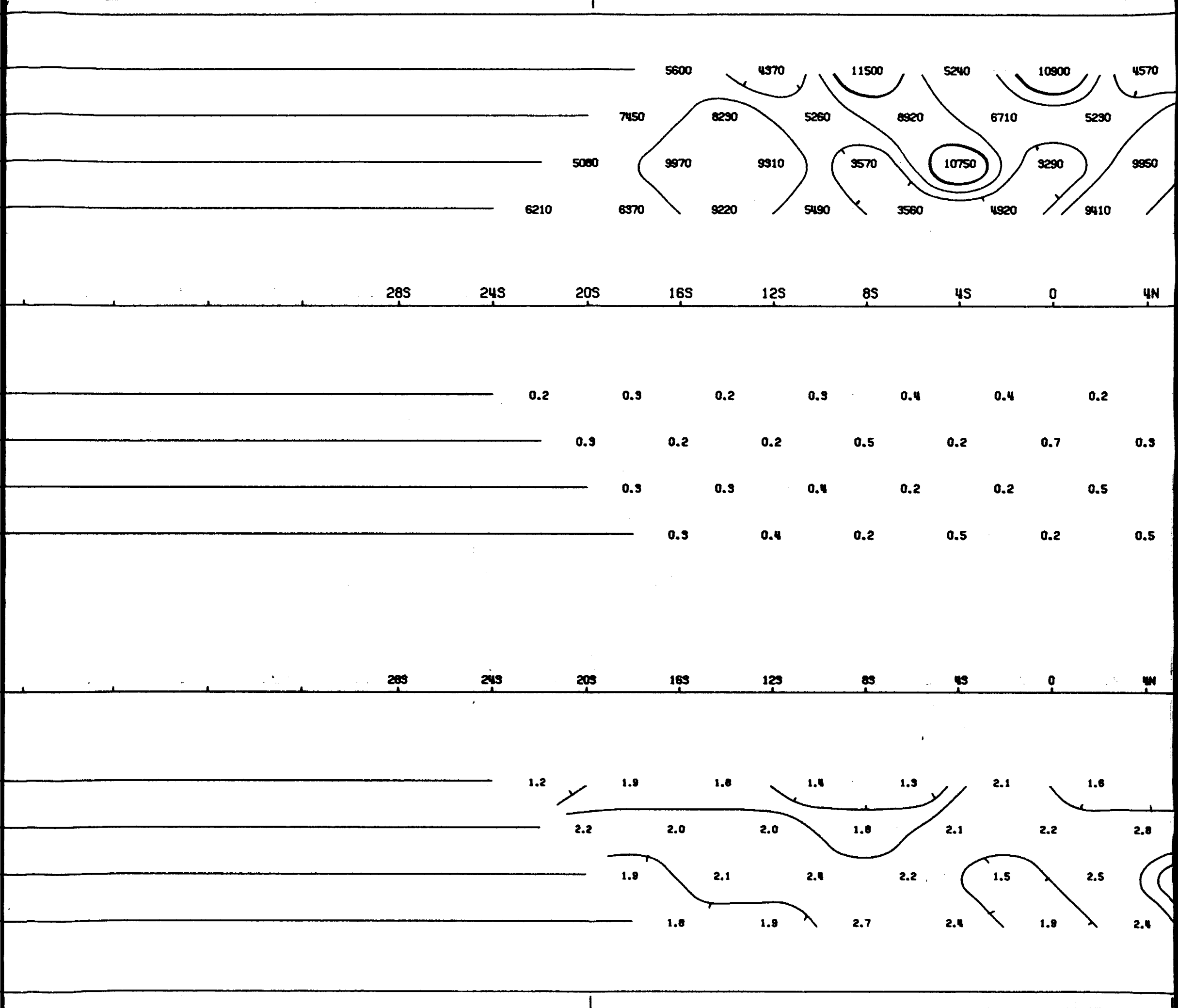
N - 1 — 1.2

N - 2 — 2.2

N - 3

N - 4

N - 5


5600 4370 11500 5240 10900 4570
7450 8230 5260 8920 6710 5230
5080 9970 9310 3570 10750 3290 9950
6210 6370 9220 5490 3560 4920 9410
28S 24S 20S 16S 12S 8S 4S 0 4N
0.2 0.3 0.2 0.3 0.4 0.4 0.2
0.3 0.2 0.2 0.5 0.2 0.7 0.3
0.3 0.3 0.4 0.2 0.2 0.5
0.3 0.4 0.2 0.5 0.2 0.5
28S 24S 20S 16S 12S 8S 4S 0 4N
1.2 1.9 1.8 1.4 1.3 2.1 1.6
2.2 2.0 2.0 1.8 2.1 2.2 2.8
1.9 2.1 2.4 2.2 1.5 2.5
1.8 1.9 2.7 2.4 1.9 2.4

N - 5

5600 4370 11500 5240 10900 4570 3960 6900 8360 — N - 4

7450 8230 5260 8920 6710 5230 7910 5790 8480 19000 — N - 3

9970 9310 3570 10750 3290 9950 11200 7120 12800 10200 — N - 2

6370 9220 5490 3560 4920 9410 14700 12800 9510 8950 9390 — N - 1

RESISTIVITY (APP.) IN OHM FEET / 2π

S 16S 12S 8S 4S 0 4N 8N 12N 16N 20N 24N 28N

METAL FACTOR (APP.)

0.3 0.2 0.3 0.4 0.4 0.2 0.1 0.2 0.1 0.2 0.2 — N - 1

0.2 0.2 0.5 0.2 0.7 0.3 0.3 0.3 0.2 0.1 — N - 2

0.3 0.3 0.4 0.2 0.2 0.5 0.2 0.2 0.2 0.2 — N - 3

0.3 0.4 0.2 0.5 0.2 0.5 0.3 0.2 0.3 — N - 4

N - 5

S 16S 12S 8S 4S 0 4N 8N 12N 16N 20N 24N 28N

FREQUENCY EFFECT (APP.) IN %

1.9 1.8 1.4 1.3 2.1 1.6 1.5 2.0 1.4 1.7 1.9 — N - 1

2.0 2.0 1.8 2.1 2.2 2.8 2.8 2.0 2.1 1.5 — N - 2

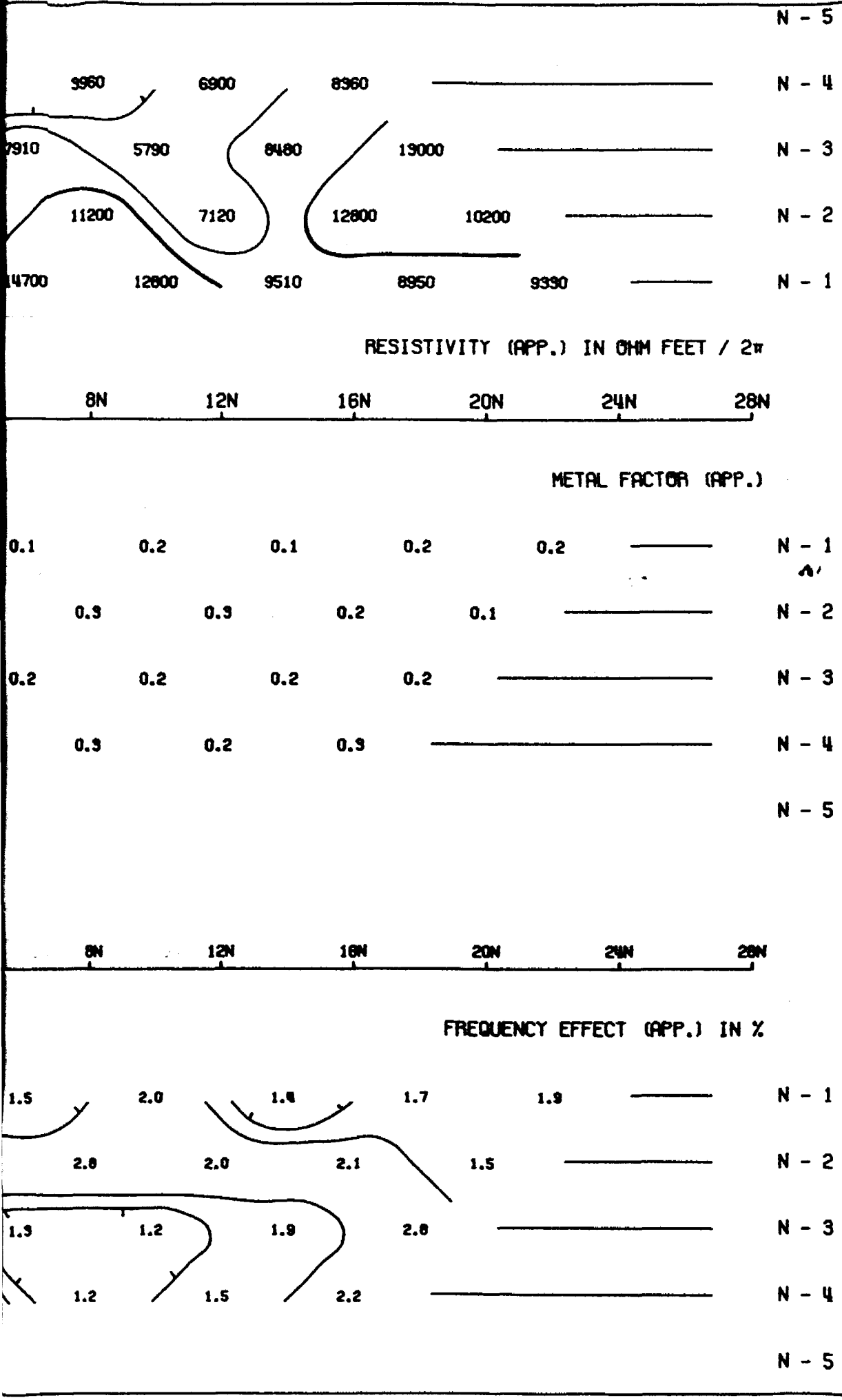
1.9 2.1 2.4 2.2 1.5 2.5 1.3 1.2 1.9 2.8 — N - 3

1.8 1.9 2.7 2.4 1.9 2.4 1.2 1.5 2.2 — N - 4

N - 5

2507

DWG. NO.- I.P.-5814-12



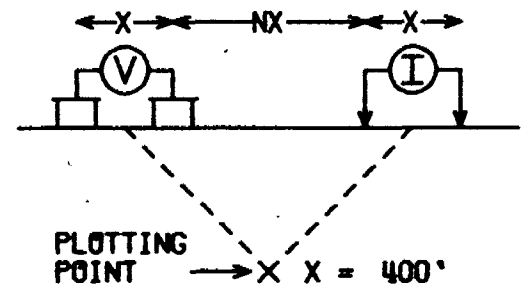
LAVA MINERALS LTD.

CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO

LINE NO.- 32W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ——————

PROBABLE ∙∙∙∙∙∙∙∙∙∙∙∙∙∙∙

POSSIBLE / / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED:

DATE: 2 July 71

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER

N - 5

N - 4 — 681

N - 3 — 7550

N - 2 — 9440 — 624

N - 1 — NR — 6840

RESISTIVITY (APP.) IN OHM FEET / 2π

28S 24S 20S 16

METAL FACTOR (APP.)

N - 1 — NR — 0.2

N - 2 — 0.2 — 0.

N - 3 — 0.2

N - 4 — 0.

N - 5

28S 24S 20S 16

FREQUENCY EFFECT (APP.) IN %

N - 1 — NR — 1.1

N - 2 — 1.5 — 1.0

N - 3 — 1.6

N - 4 — 2.5

N - 5

6810 4800 3360 5330 5520 6410 6230

7550 6310 7023 3680 6740 7810 4360

9440 6240 8070 8000 4860 8080 4850 4320

NR 6840 7640 8000 9830 4340 3860 3240

28S 24S 20S 16S 12S 8S 4S 0 4N 8N

NR 0.2 0.2 0.9 0.2 0.4 0.9 0.9

0.2 0.2 0.9 0.2 0.5 0.2 0.9 0.2

0.2 0.4 0.9 0.9 0.9 0.2 0.9

0.2 0.4 0.9 0.9 0.9 0.9 (0.2)

28S 24S 20S 16S 12S 8S 4S 0 4N 8N

NR 1.1 1.9 2.9 2.9 1.7 1.9 1.0

1.5 1.0 2.5 1.5 2.2 2.0 1.2 0.9

1.6 2.4 2.1 1.2 2.0 1.8 1.5

2.5 1.6 1.5 1.8 1.9 2.2 (1.5)

N - 5

4800	3360	5330	5520	6410	6230	9590	3930	3480				N - 4
6310	7023	3680	6740	7810	4360	5400	8930	3890	3280			N - 3
8070	8000	4860	8080	4850	4320	4180	7400	3360	3410			N - 2
7640	8000	9830	4340	3860	3240	2410	2910	4600	3040	NR		N - 1

RESISTIVITY (APP.) IN OHM FEET / 2π

12S 8S 4S 0 4N 8N 12N 16N 20N 24N 28N 32N

METAL FACTOR (APP.)

0.2	0.3	0.2	0.4	0.3	0.3	0.4	0.5	0.2	0.4	NR		N - 1
0.3	0.2	0.5	0.2	0.3	0.2	0.4	0.3	0.3	0.4			N - 2
0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.4	0.3			N - 3
0.3	0.4	0.3	0.3	0.3	(0.2)	0.2	0.4	0.4				N - 4

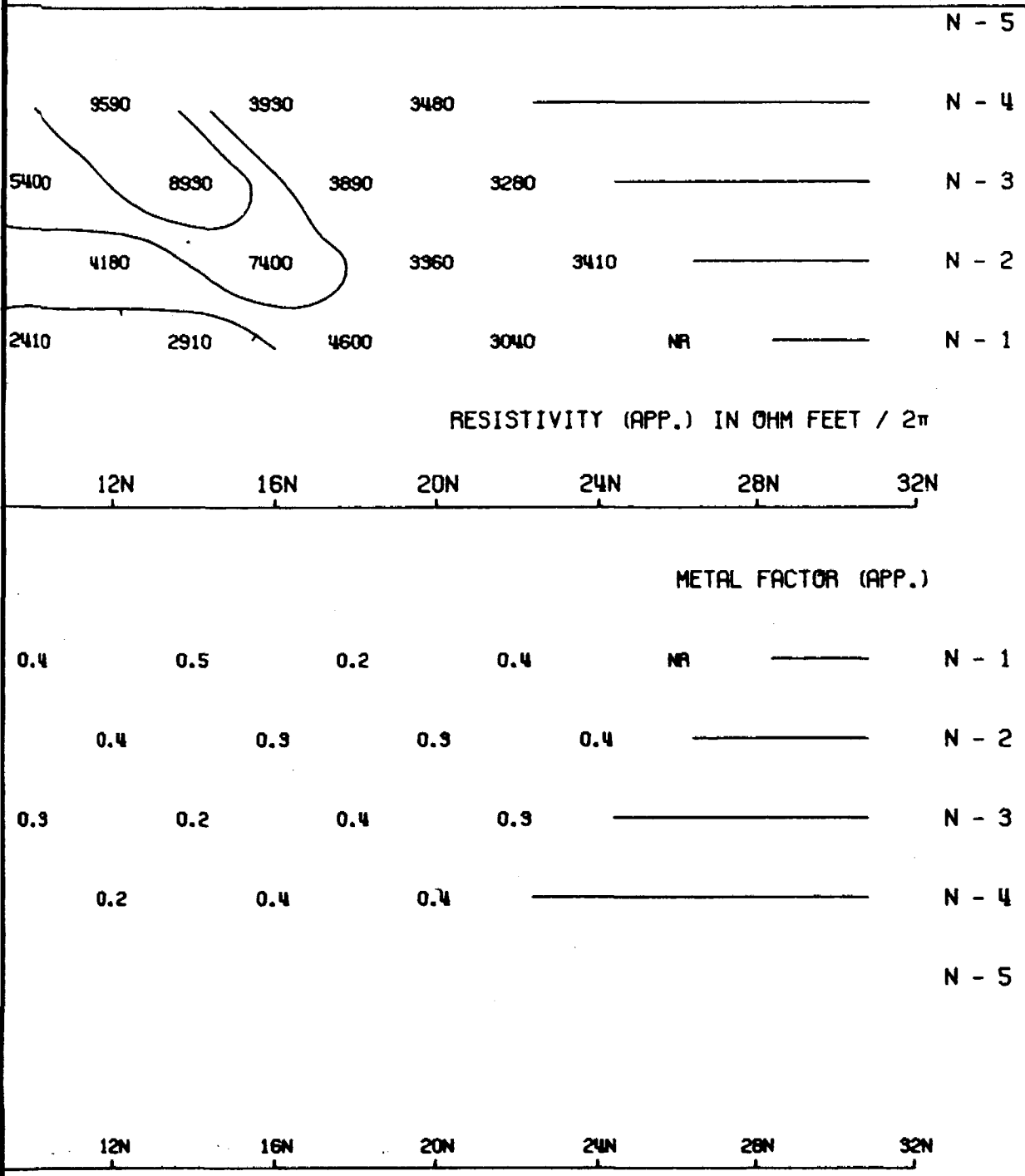
N - 5

12S 8S 4S 0 4N 8N 12N 16N 20N 24N 28N 32N

FREQUENCY EFFECT (APP.) IN %

1.3	2.3	2.3	1.7	1.3	1.0	0.9	1.3	0.9	1.1	NR		N - 1
2.5	1.5	2.2	2.0	1.2	0.9	1.5	2.0	0.9	1.2			N - 2
2.4	2.1	1.2	2.0	1.8	1.5	2.0	2.1	1.5	1.1			N - 3
1.6	1.5	1.8	1.9	2.2	(1.5)	1.6	1.4	1.3				N - 4

N - 5



2.567

DWG. NO.- I.P.-5814-6

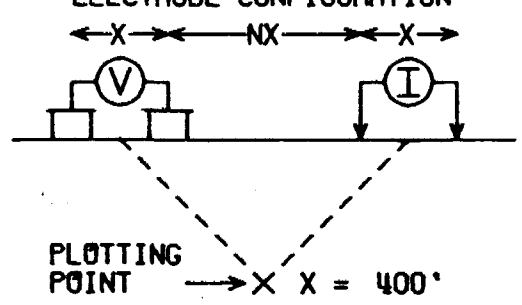
LAVA MINERALS LTD.

CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO

LINE NO.- 52W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ▬▬▬

PROBABLE ▪▪▪▪▪▪▪▪▪▪▪▪▪

POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED: _____

DATE: 29 July 71

GEOPHYSICS

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER

N - 5 5

N - 4 4

N - 3 3

N - 2 7202

N - 1 NR 1

RESISTIVITY (APP.) IN OHM FEET / 2π

28S 24S 20

METAL FACTOR (APP.)

N - 1 NR 1

N - 2 0.22

N - 3 3

N - 4 4

N - 5 5

28S 24S 20

FREQUENCY EFFECT (APP.) IN %

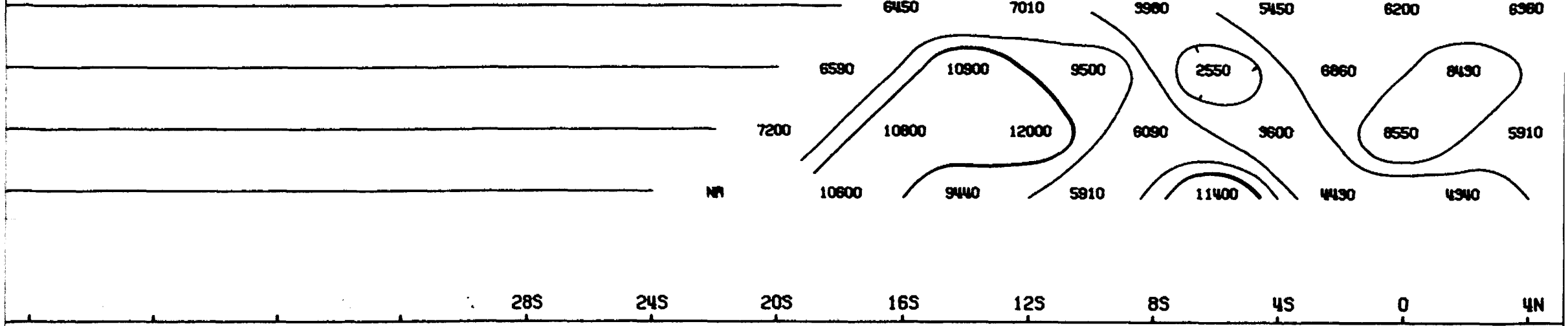
N - 1 NR 1

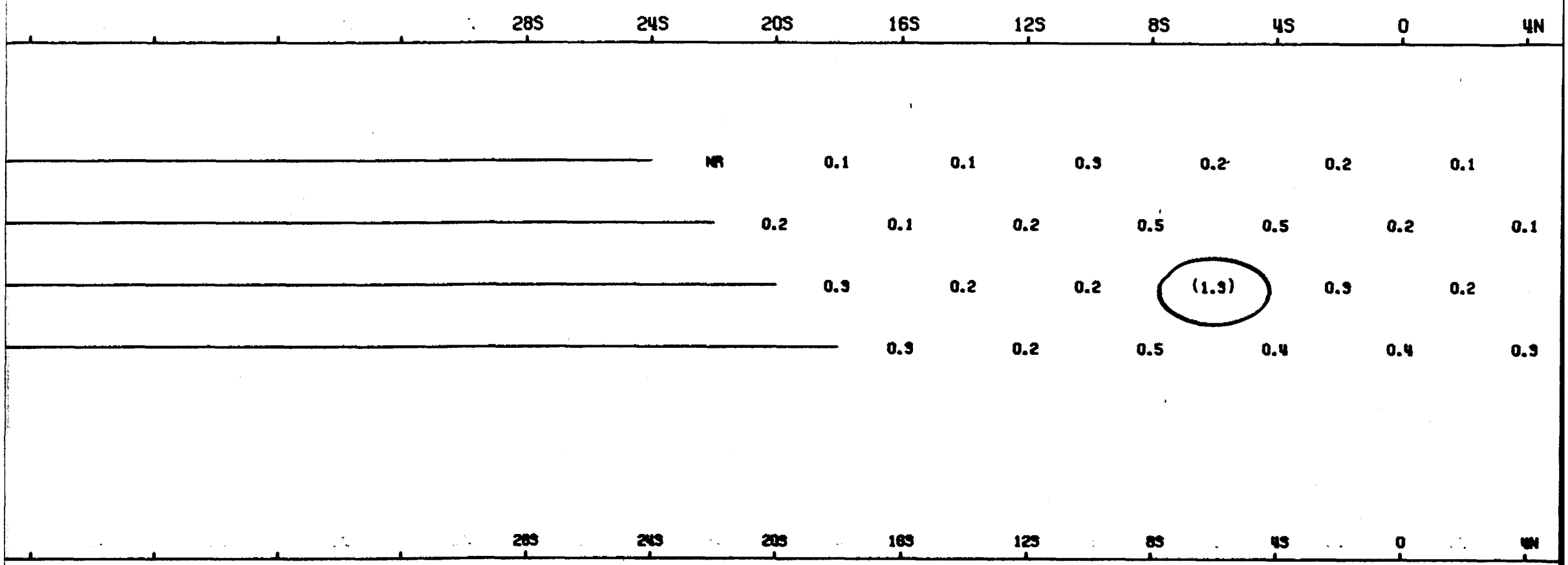
N - 2 1.92

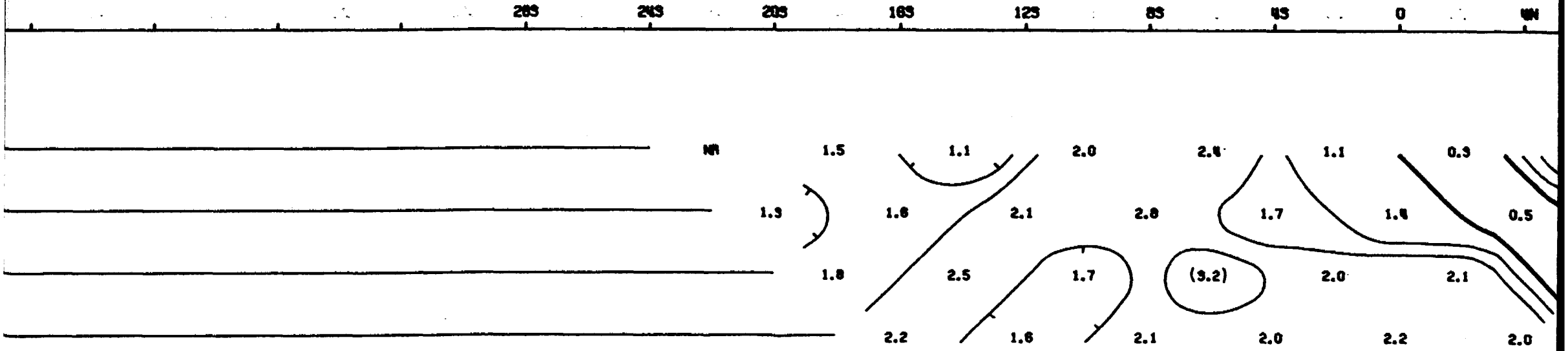
N - 3 3

N - 4 4

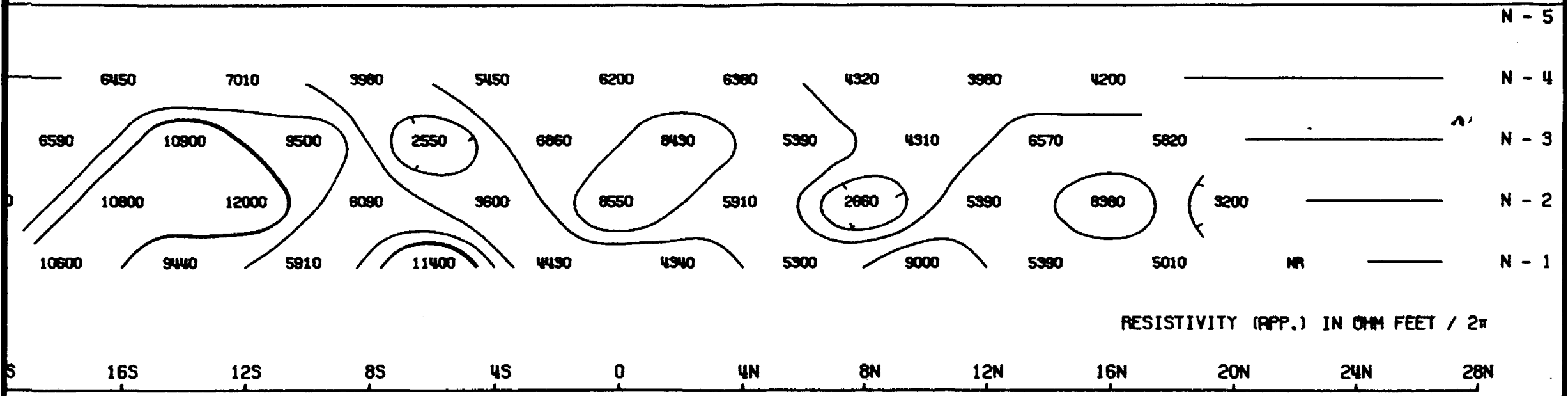
N - 5 5


6450 7010 3980 5450 6200 6980
6590 10900 9500 2550 6860 8490
7200 10800 12000 6090 3600 8550 5910
NR 10600 9440 5910 11400 4430 4340

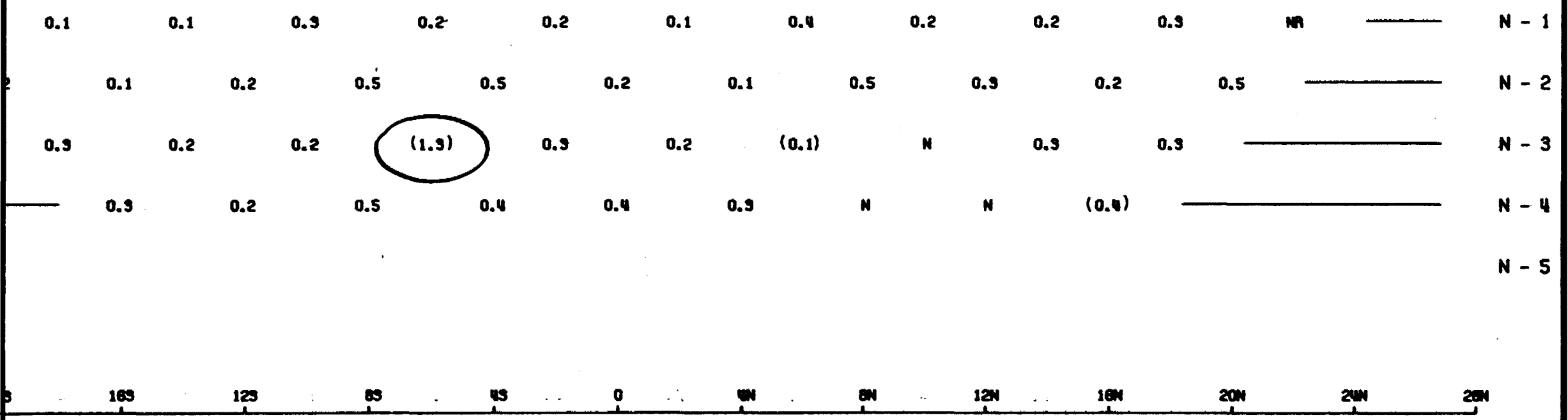

28S 24S 20S 16S 12S 8S 4S 0 4N
NR 0.1 0.1 0.3 0.2 0.2 0.1
0.2 0.1 0.2 0.5 0.5 0.2 0.1
0.3 0.2 0.2 (1.3) 0.3 0.2
0.3 0.2 0.5 0.4 0.4 0.3


28S 24S 20S 16S 12S 8S 4S 0 4N
NR 1.5 1.1 2.0 2.8 1.1 0.3
1.3 1.6 2.1 2.8 1.7 1.8 0.5
1.8 2.5 1.7 (3.2) 2.0 2.1
2.2 1.6 2.1 2.0 2.2 2.0

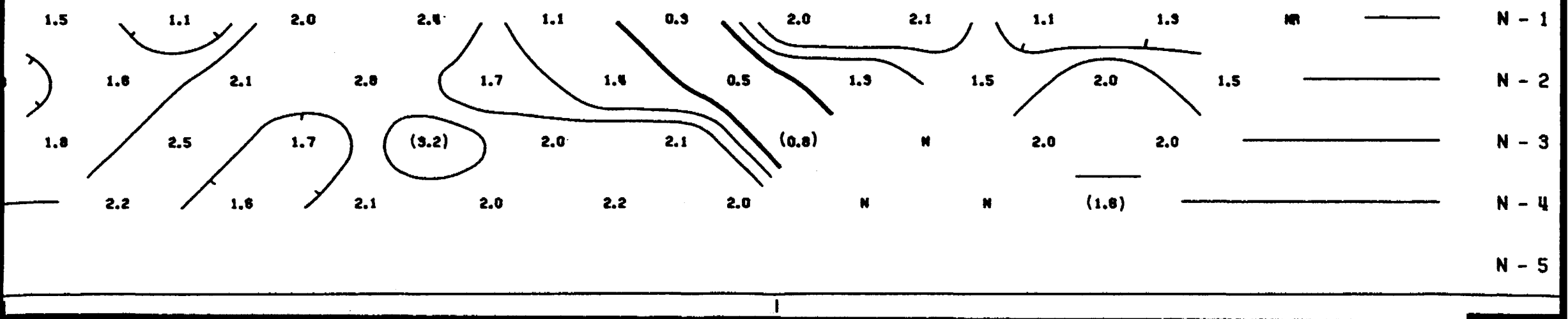
RESISTIVITY (APP.) IN OHM FEET / 2π

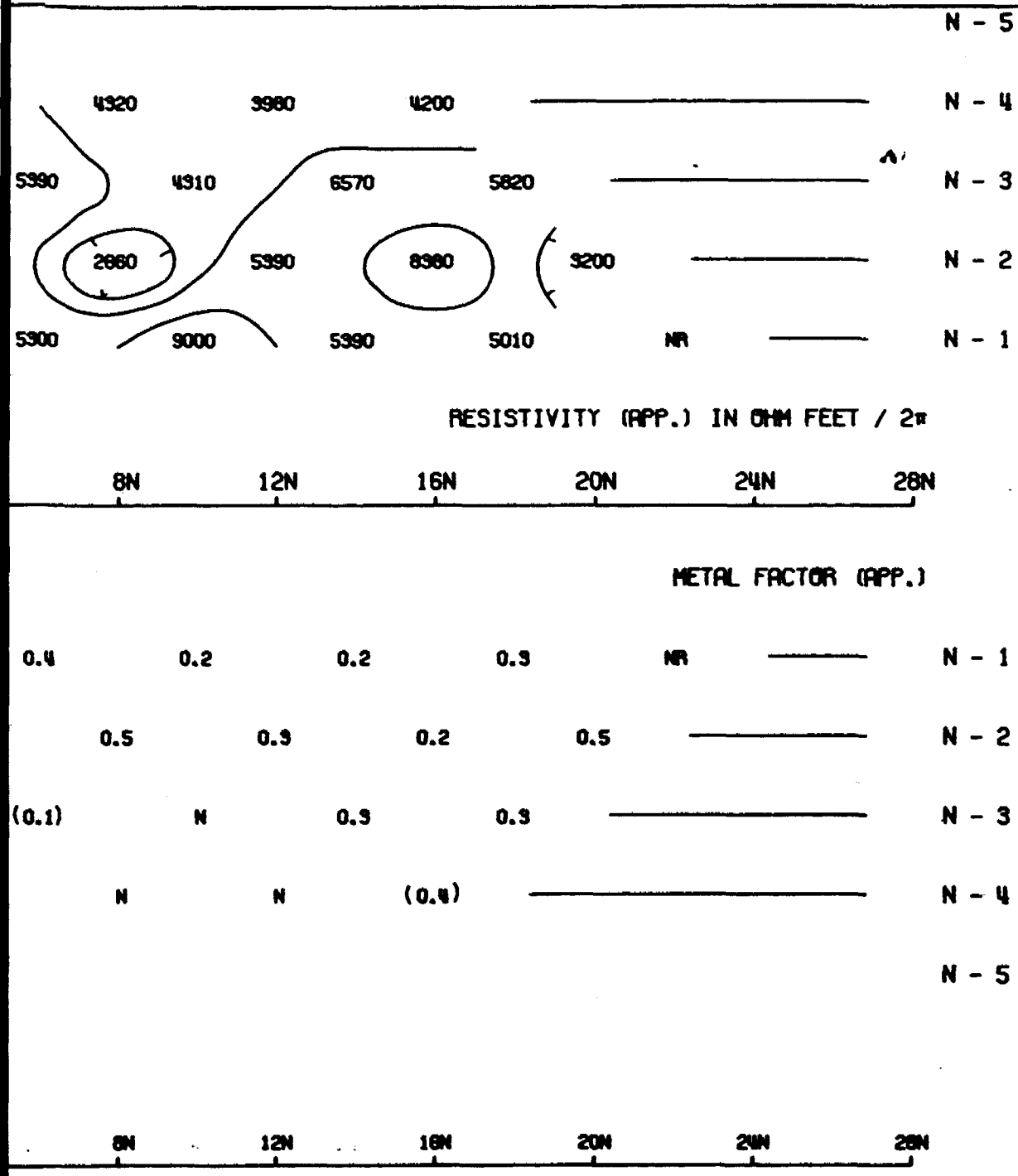


METAL FACTOR (APP.)



FREQUENCY EFFECT (APP.) IN %





2.567

DWG. NO.- I.P.-5814-7

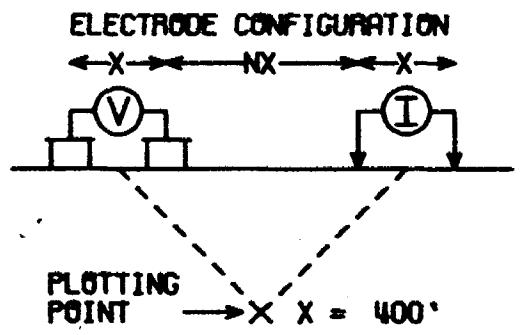
LAVA MINERALS LTD.

CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO

LINE NO.- 48W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ▬▬▬▬

PROBABLE ▪▪▪▪▪▪▪▪▪▪▪▪▪▪

POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED:

DATE: 2 July 71

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER

N - 5

N - 4

N - 3

N - 2 — 375

N - 1 — NR

RESISTIVITY (APP.) IN OHM FEET / 2π

28S 24S 20

METAL FACTOR (APP.)

N - 1 — NR

N - 2 — 0.

N - 3

N - 4

N - 5

28S 24S 20

FREQUENCY EFFECT (APP.) IN %

N - 1 — NR

N - 2 — 1.6

N - 3

N - 4

N - 5

		3200		5050		4450		7940		4980		6720
	9000		3170		6680		5100		4460		5100	
	3750		2990		3720		6800		3090		5220	3990
NR		3720		3480		2970		3420		2570		3080

28S 24S 20S 16S 12S 8S 4S 0 4N

	NR		0.1		0.1		0.5		0.3		0.4	0.2
	0.4		0.3		0.3		0.2		0.5		0.1	0.2
	0.3		0.3		0.1		(0.4)		0.5		0.4	
	(0.5)		0.1		(0.4)		0.2		0.5		0.2	

28S 24S 20S 16S 12S 8S 4S 0 4N

	NR		0.5		0.3		1.5		1.0		1.0	0.5
	1.6		0.8		1.0		1.4		1.6		0.6	0.8
	0.9		1.0		1.0		(2.1)		2.4		1.9	
	(1.5)		0.6		(1.8)		1.8		2.5		1.6	

RESISTIVITY (APP.) IN OHM FEET / 2π

POWER LINE

	16S	12S	8S	4S	0	4N	8N	12N	16N	20N	24N	28N	
N - 5													
N - 4	3200	5050	4450	7940	4980	6720	5520	4800	5400				
N - 3	3000	3170	6680	5100	4480	5100	5600	4020	5100	2660			
N - 2	2990	3720	6800	3090	5220	3990	4800	4150	3670	3220			
N - 1	3720	3480	2970	3420	2570	3080	3530	7000	2600	5810	NR		

METAL FACTOR (APP.)

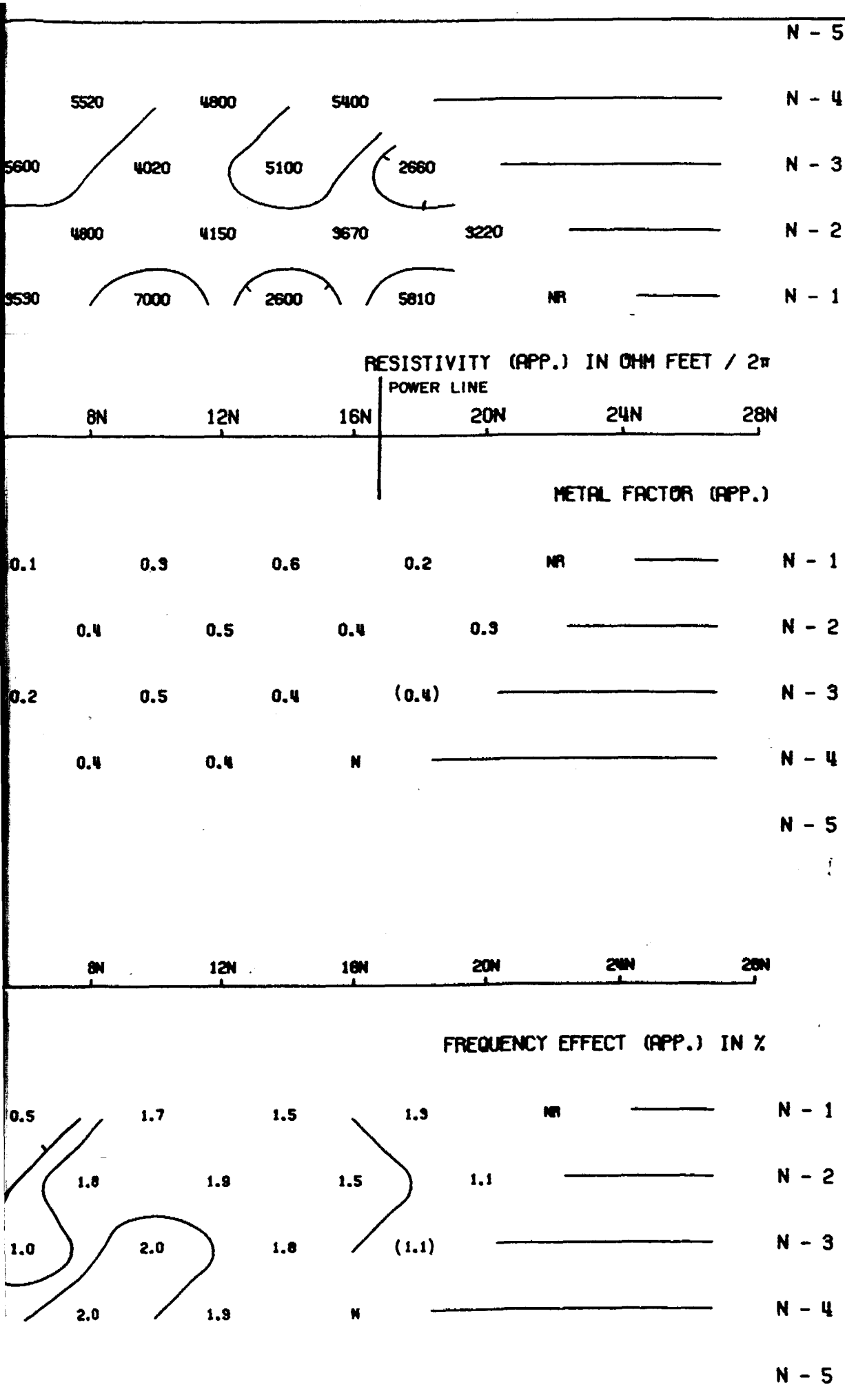
	16S	12S	8S	4S	0	4N	8N	12N	16N	20N	24N	28N	
N - 1	0.1	0.1	0.5	0.3	0.4	0.2	0.1	0.3	0.6	0.2	NR		
N - 2	0.3	0.3	0.2	0.5	0.1	0.2	0.4	0.5	0.4	0.3			
N - 3	0.3	0.3	0.1	(0.4)	0.5	0.4	0.2	0.5	0.4	(0.4)			
N - 4	(0.5)	0.1	(0.4)	0.2	0.5	0.2	0.4	0.4	N				
N - 5													

FREQUENCY EFFECT (APP.) IN %

	16S	12S	8S	4S	0	4N	8N	12N	16N	20N	24N	28N	
N - 1	0.5	0.3	1.5	1.0	1.0	0.5	0.5	1.7	1.5	1.3	NR		
N - 2	0.8	1.0	1.4	1.6	0.6	0.8	1.8	1.9	1.5	1.1			
N - 3	0.9	1.0	1.0	(2.1)	2.4	1.9	1.0	2.0	1.8	(1.1)			
N - 4	(1.5)	0.6	(1.8)	1.8	2.5	1.6	2.0	1.9	N				
N - 5													

2.567

DWG. NO.- I.P.-5814-8



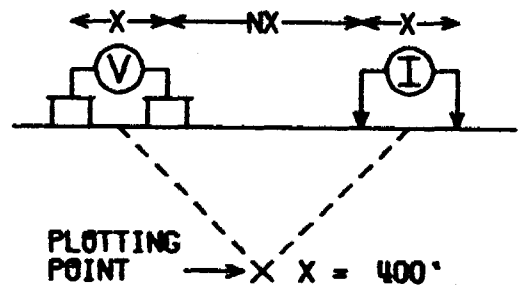
LAVA MINERALS LTD.

CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO

LINE NO.- 44W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ▬▬▬

PROBABLE ▪▪▪▪▪▪▪▪▪▪▪▪▪▪

POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED: _____

DATE: July 7/71

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER

N - 5

N - 4 — 1904

N - 3 — 1410

N - 2 — 1100 — 482

N - 1 — 915 — 376

RESISTIVITY (APP.) IN OHM FEET / 2π

28S 24S 20S 16

METAL FACTOR (APP.)

N - 1 — 0.4 — 0.8

N - 2 — 0.7 — 1.0

N - 3 — 0.8

N - 4 — 0.8

N - 5

28S 24S 20S 16

FREQUENCY EFFECT (APP.) IN %

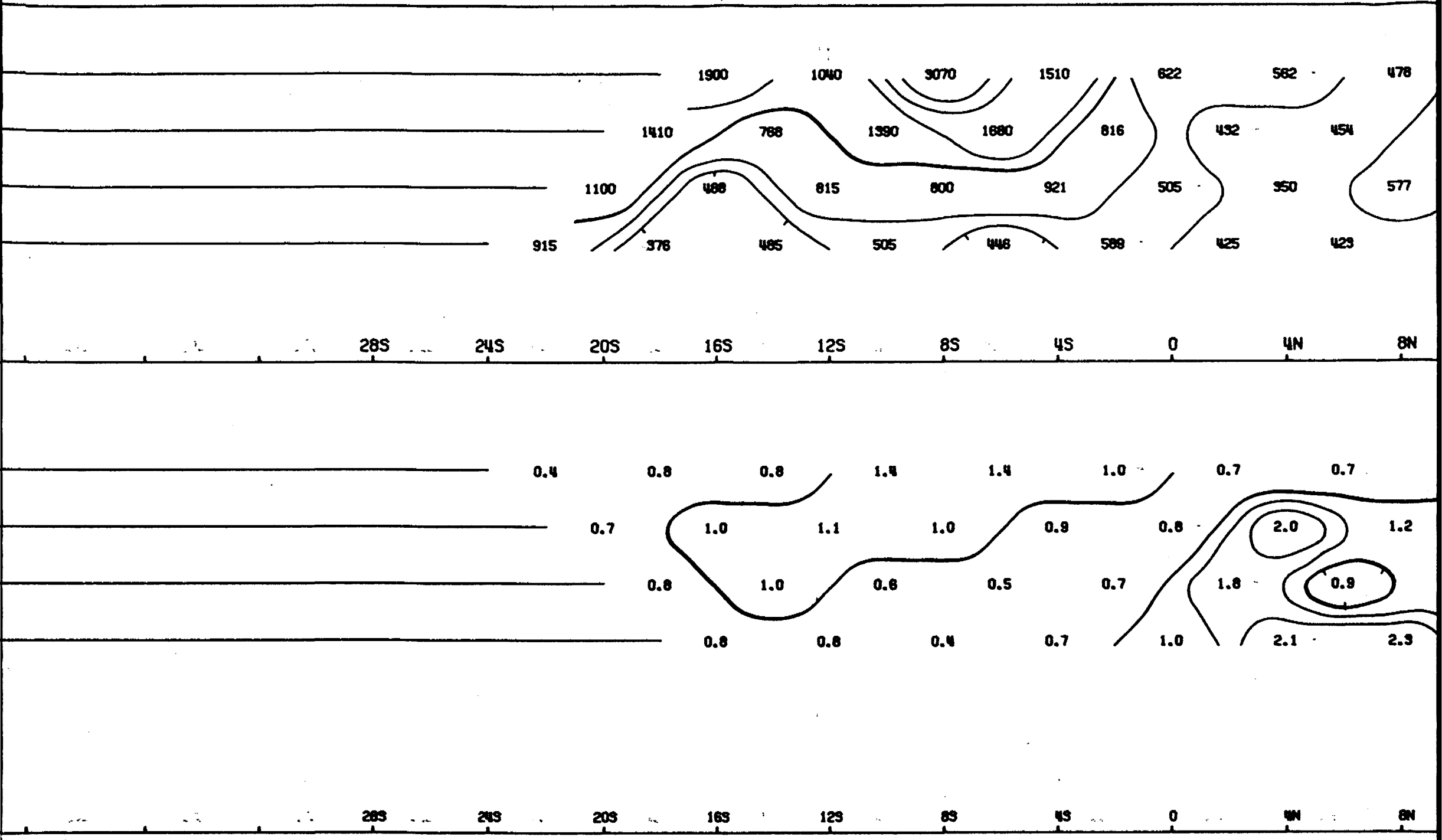
N - 1 — 0.4 — 0.9

N - 2 — 0.8 — 0.9

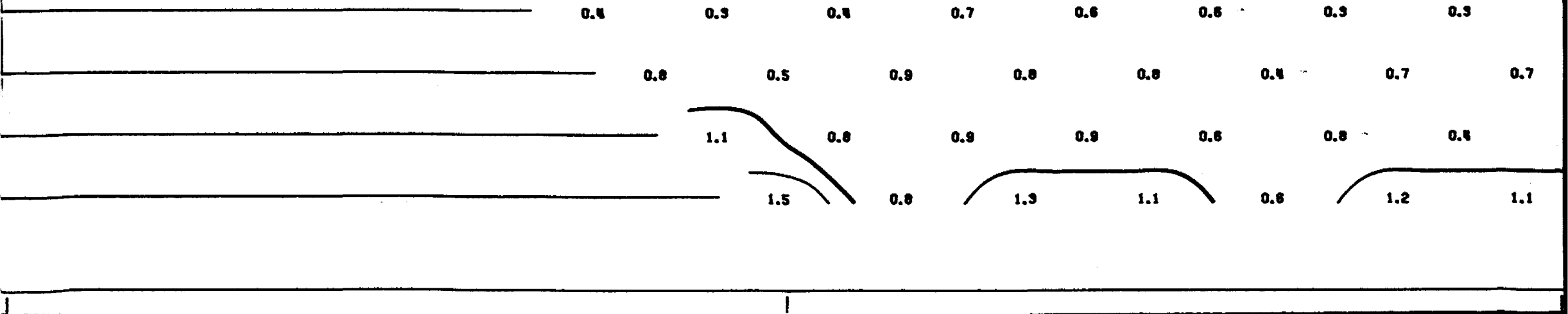
N - 3 — 1.1

N - 4 — 1.5

N - 5


1900 1040 3070 1510 622 582 478
1410 788 1390 1680 816 432 454
1100 488 815 800 921 505 950 577
915 376 485 505 448 589 425 423
28S 24S 20S 16S 12S 8S 4S 0 4N 8N

0.4 0.8 0.8 1.4 1.4 1.0 0.7 0.7
0.7 1.0 1.1 1.0 0.9 0.8 2.0 1.2
0.8 1.0 0.6 0.5 0.7 1.8 0.9
0.8 0.8 0.4 0.7 1.0 2.1 2.3
28S 24S 20S 16S 12S 8S 4S 0 4N 8N


0.4 0.3 0.4 0.7 0.6 0.6 0.3 0.3
0.8 0.5 0.9 0.8 0.8 0.4 0.7 0.7
1.1 0.8 0.9 0.9 0.6 0.8 0.4
1.5 0.8 1.3 1.1 0.8 1.2 1.1

N - 5

1040 3070 1510 622 582 478 861 617 600 — N - 4

788 1390 1680 816 432 454 600 487 390 537 — N - 3

815 800 921 505 350 577 382 382 362 468 — N - 2

485 505 446 589 425 423 329 294 384 312 479 — N - 1

RESISTIVITY (APP.) IN OHM FEET / 2π

S 12S 8S 4S 0 4N 8N 12N 16N 20N 24N 28N 32N

METAL FACTOR (APP.)

0.8 1.4 1.4 1.0 0.7 0.7 0.8 2.1 0.8 1.0 1.9 — N - 1

1.1 1.0 0.9 0.8 2.0 1.2 2.2 0.5 0.8 0.4 — N - 2

1.0 0.6 0.5 0.7 1.8 0.9 1.2 2.3 1.1 0.4 — N - 3

0.8 0.4 0.7 1.0 2.1 2.9 1.3 1.3 0.5 — N - 4

N - 5

S 12S 8S 4S 0 4N 8N 12N 16N 20N 24N 28N 32N

FREQUENCY EFFECT (APP.) IN %

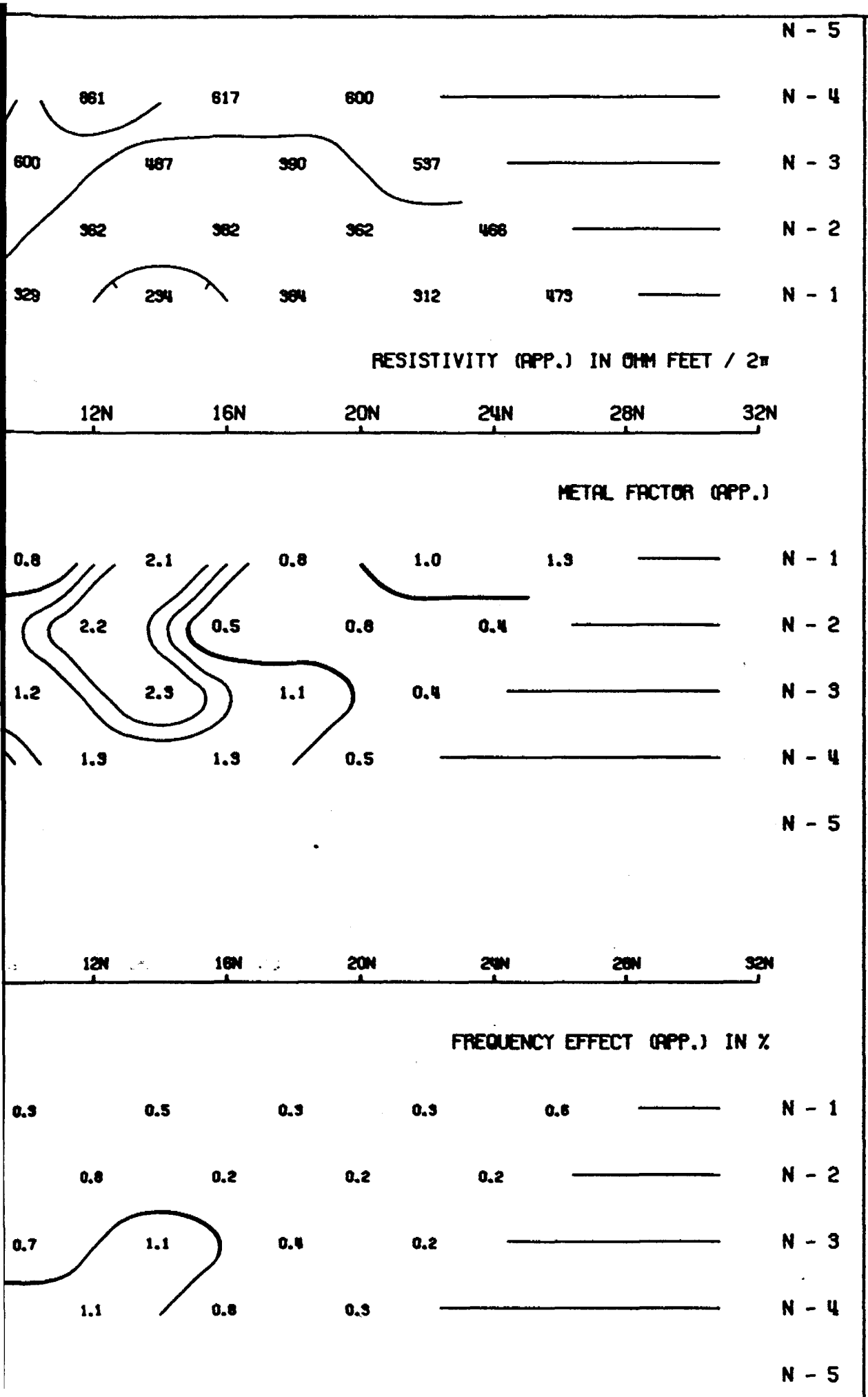
0.4 0.7 0.6 0.6 0.3 0.3 0.3 0.5 0.3 0.3 0.6 — N - 1

0.9 0.8 0.8 0.4 0.7 0.7 0.8 0.2 0.2 0.2 — N - 2

0.8 0.9 0.9 0.6 0.8 0.4 0.7 1.1 0.4 0.2 — N - 3

0.8 1.3 1.1 0.6 1.2 1.1 1.1 0.8 0.3 — N - 4

N - 5



2567

DWG. NO.- I.P.-5814-3

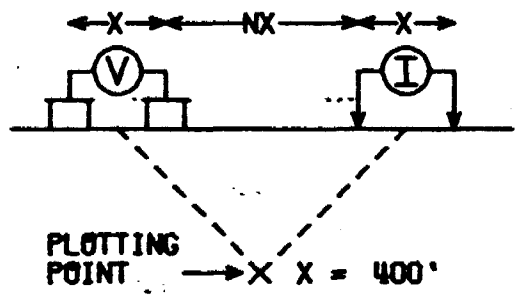
LAVA MINERALS LTD.

CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO

LINE NO.- 64W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ——————

PROBABLE ∎∎∎∎∎∎∎∎∎∎∎∎∎∎

POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED:

DATE: July 71

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER

N - 5

N - 4 ——— 244

N - 3 ——— 2570

N - 2 ——— 4570 316

N - 1 ——— NR 5800

RESISTIVITY (APP.) IN OHM FEET / 2π

28S 24S 20S 16

METAL FACTOR (APP.)

N - 1 ——— NR 0.3

N - 2 ——— 0.3 0.

N - 3 ——— 0.5

N - 4 ——— 0.

N - 5

28S 24S 20S 16

FREQUENCY EFFECT (APP.) IN %

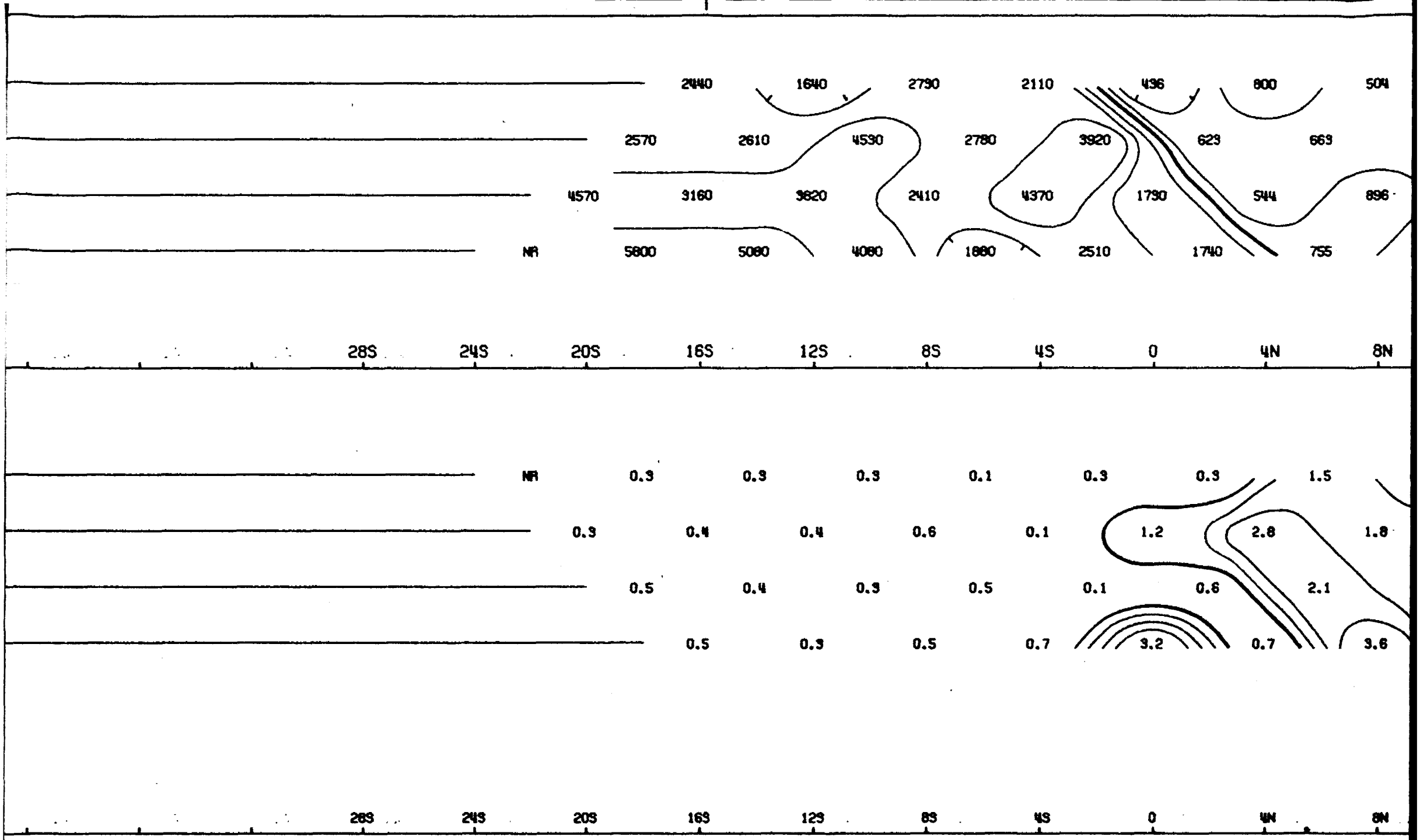
N - 1 ——— NR 1.5

N - 2 ——— 1.4 1.

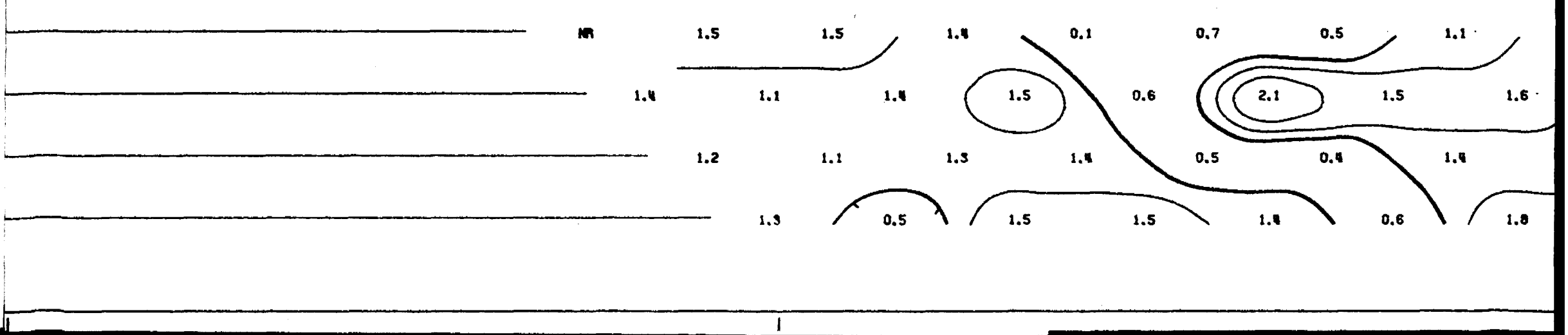
N - 3 ——— 1.2

N - 4 ——— 1.

N - 5


2440 1640 2790 2110 436 800 504
2570 2610 4530 2780 3920 623 663
4570 3160 3620 2410 4370 1790 544 896
NR 5800 5080 4080 1880 2510 1740 755
28S 24S 20S 16S 12S 8S 4S 0 4N 8N

NR 0.3 0.3 0.3 0.1 0.3 0.3 1.5
0.3 0.4 0.4 0.6 0.1 1.2 2.8 1.8
0.5 0.4 0.3 0.5 0.1 0.6 2.1
0.5 0.3 0.5 0.7 3.2 0.7 3.6
28S 24S 20S 16S 12S 8S 4S 0 4N 8N


NR 1.5 1.5 1.4 0.1 0.7 0.5 1.1
1.4 1.1 1.4 1.5 0.6 2.1 1.5 1.6
1.2 1.1 1.3 1.4 0.5 0.4 1.4
1.3 0.5 1.5 1.5 1.4 0.6 1.8

N - 5

1640 2790 2110 436 800 504 1160 2200 735 — N - 4

2610 4530 2780 3920 629 663 648 1020 1340 905 — N - 3

3820 2410 4370 1790 544 898 582 614 1520 686 — N - 2

5080 4080 1880 2510 1740 755 691 286 499 985 NR — N - 1

RESISTIVITY (APP.) IN OHM FEET / 2π

12S 8S 4S 0 4N 8N 12N 16N 20N 24N 28N 32N

METAL FACTOR (APP.)

0.3 0.3 0.1 0.3 0.3 1.5 2.2 3.1 1.6 0.7 NR — N - 1

0.4 0.6 0.1 1.2 2.8 1.8 1.9 1.6 0.9 1.0 — N - 2

0.4 0.3 0.5 0.1 0.6 2.1 1.7 0.7 1.0 0.9 — N - 3

0.3 0.5 0.7 3.2 0.7 3.6 1.4 (0.2) 0.5 — N - 4

N - 5

12S 8S 4S 0 4N 8N 12N 16N 20N 24N 28N 32N

FREQUENCY EFFECT (APP.) IN %

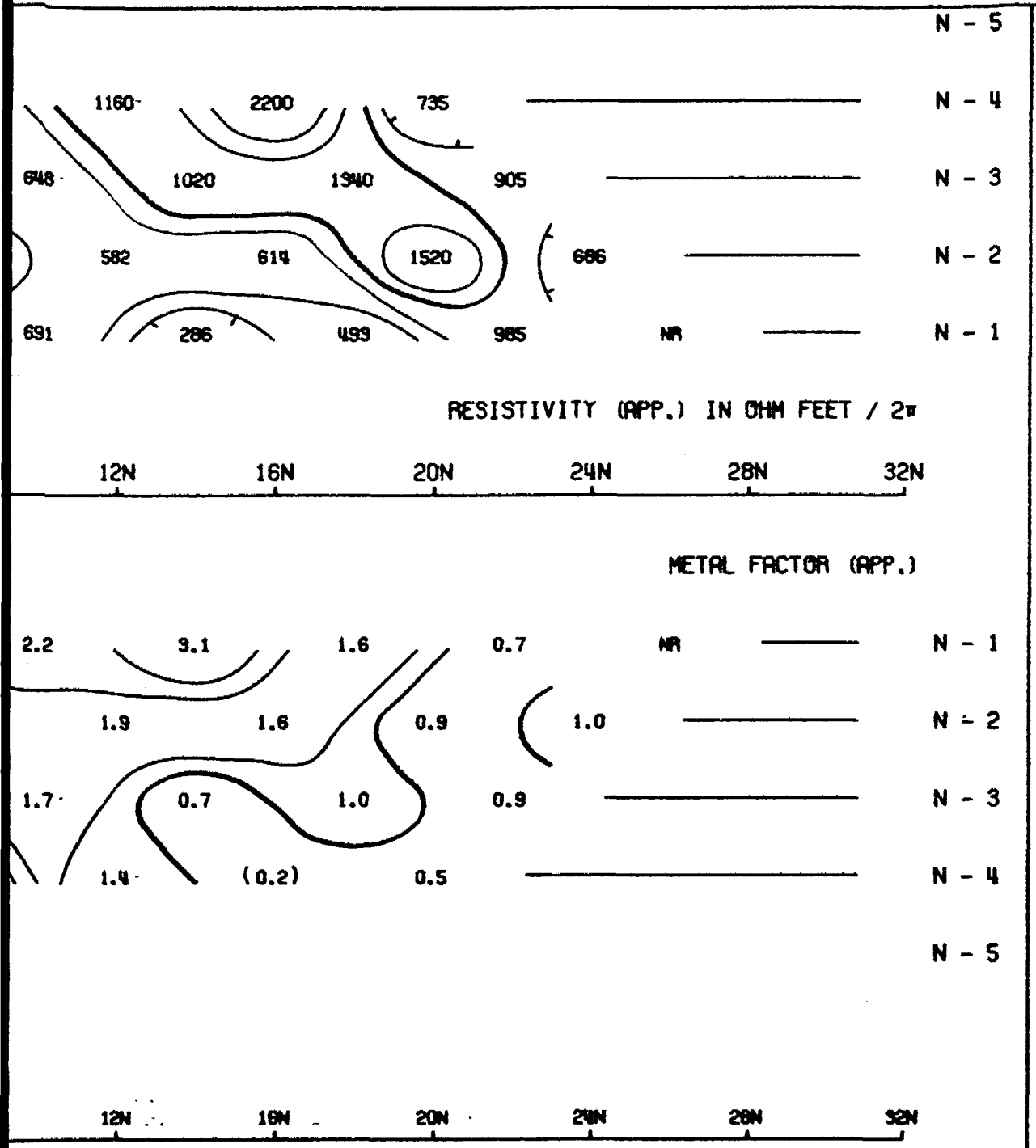
1.5 1.4 0.1 0.7 0.5 1.1 1.5 0.9 0.8 0.7 NR — N - 1

1.4 1.5 0.6 2.1 1.5 1.6 1.1 1.0 1.3 0.7 — N - 2

1.1 1.3 1.4 0.5 0.4 1.4 1.1 0.7 1.4 0.8 — N - 3

0.5 1.5 1.5 1.4 0.6 1.8 1.7 (0.5) 0.4 — N - 4

N - 5



2567

DWG. NO.- I.P.-5814-4

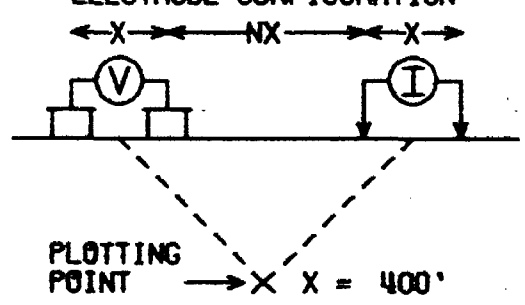
LAVA MINERALS LTD.

CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO

LINE NO.- 60W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ——————

PROBABLE ▪▪▪▪▪▪▪▪▪▪▪▪▪▪

POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED:

DATE: 24 July 71

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER

N - 5

N - 4 — 778

N - 3 — 8960

N - 2 — 9850 — 672

N - 1 — NR — 5920

RESISTIVITY (APP.) IN OHM FEET / 2π

28S 24S 20S 16

METAL FACTOR (APP.)

N - 1 — NR — 0.2

N - 2 — 0.2 — 0.

N - 3 — 0.2

N - 4 — (0.

N - 5

28S 24S 20S 16

FREQUENCY EFFECT (APP.) IN %

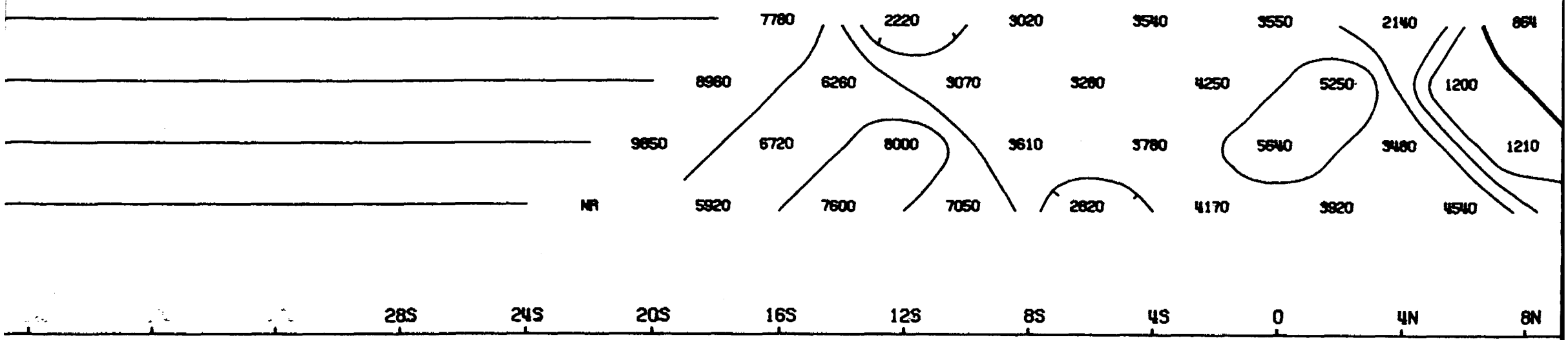
N - 1 — NR — 1.0

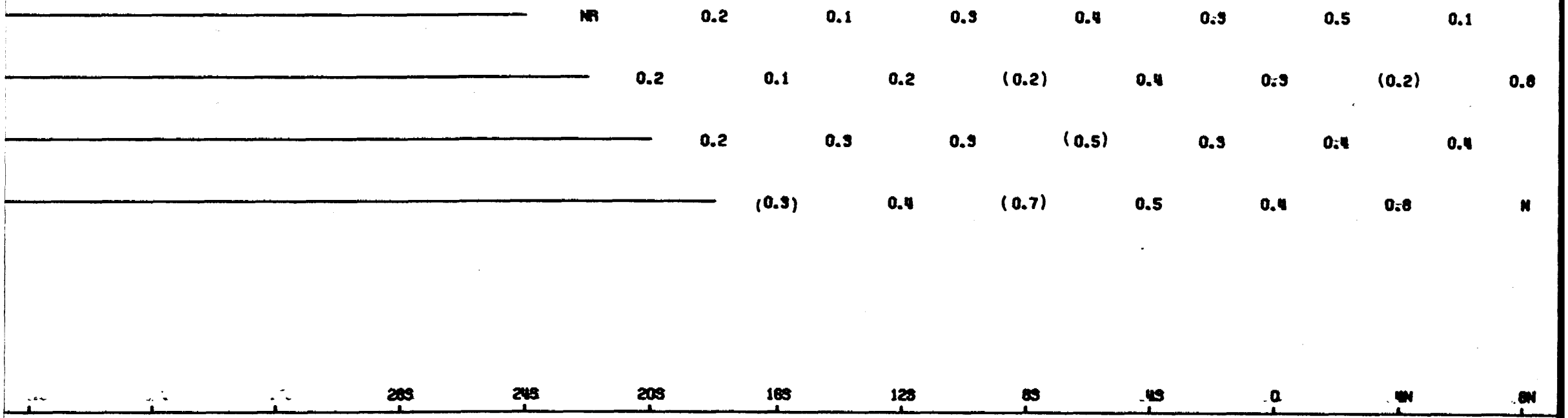
N - 2 — 2.1 — 0.

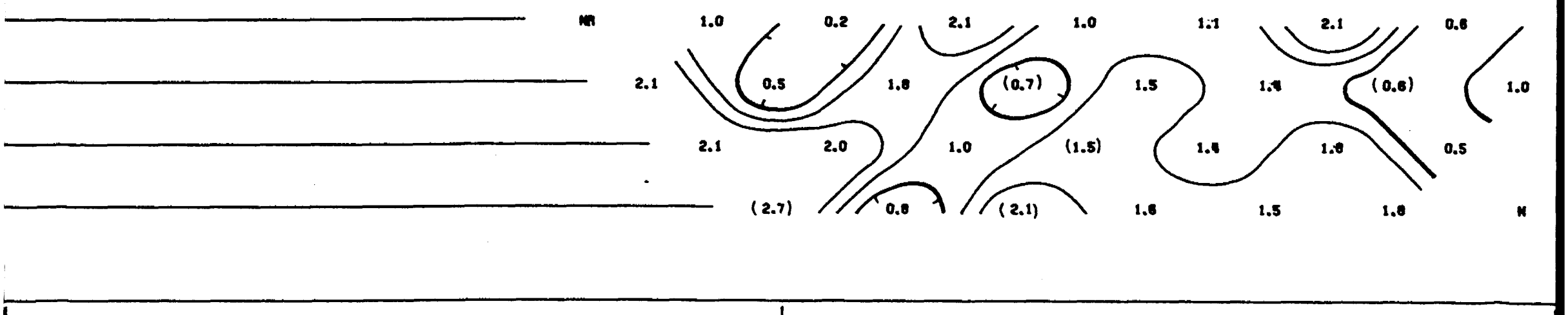
N - 3 — 2.1

N - 4 — (2.

N - 5


7780 2220 3020 3540 3550 2140 864
8960 6260 3070 3280 4250 5250 1200
9850 6720 8000 3610 3780 5640 3480 1210
NR 5920 7600 7050 2820 4170 3920 4540
28S 24S 20S 16S 12S 8S 4S 0 4N 8N


NR 0.2 0.1 0.3 0.4 0.3 0.5 0.1
0.2 0.1 0.2 (0.2) 0.4 0.3 (0.2) 0.8
0.2 0.3 0.3 (0.5) 0.3 0.4 0.4
(0.3) 0.4 (0.7) 0.5 0.4 0.8 N
28S 24S 20S 16S 12S 8S 4S 0 4N 8N


NR 1.0 0.2 2.1 1.0 1.1 2.1 0.8
2.1 0.5 1.8 (0.7) 1.5 1.4 (0.6) 1.0
2.1 2.0 1.0 (1.5) 1.4 1.8 0.5
(2.7) 0.8 (2.1) 1.8 1.5 1.8 N

N - 5

80 2220 3020 3540 3550 2140 864 1440 2250 1060 — N - 4

6260 3070 3280 4250 5250 1200 769 1420 1680 1220 — N - 3

20 8000 3610 3780 5840 3480 1210 884 1400 1480 1440 — N - 2

7600 7050 2820 4170 3920 4540 1540 610 1130 1820 NR — N - 1

RESISTIVITY (APP.) IN OHM FEET / 2π

6S 12S 8S 4S 0 4N 8N 12N 16N 20N 24N 28N 32N

METAL FACTOR (APP.)

0.1 0.3 0.4 0.3 0.5 0.1 0.7 0.8 0.4 0.3 NR — N - 1

.1 0.2 (0.2) 0.4 0.3 (0.2) 0.8 N (0.7) 0.7 0.4 — N - 2

0.3 0.3 (0.5) 0.3 0.4 0.4 N N N 0.4 — N - 3

.3) 0.4 (0.7) 0.5 0.4 0.8 N N N N — N - 4

N - 5

6S 12S 8S 4S 0 4N 8N 12N 16N 20N 24N 28N 32N

FREQUENCY EFFECT (APP.) IN %

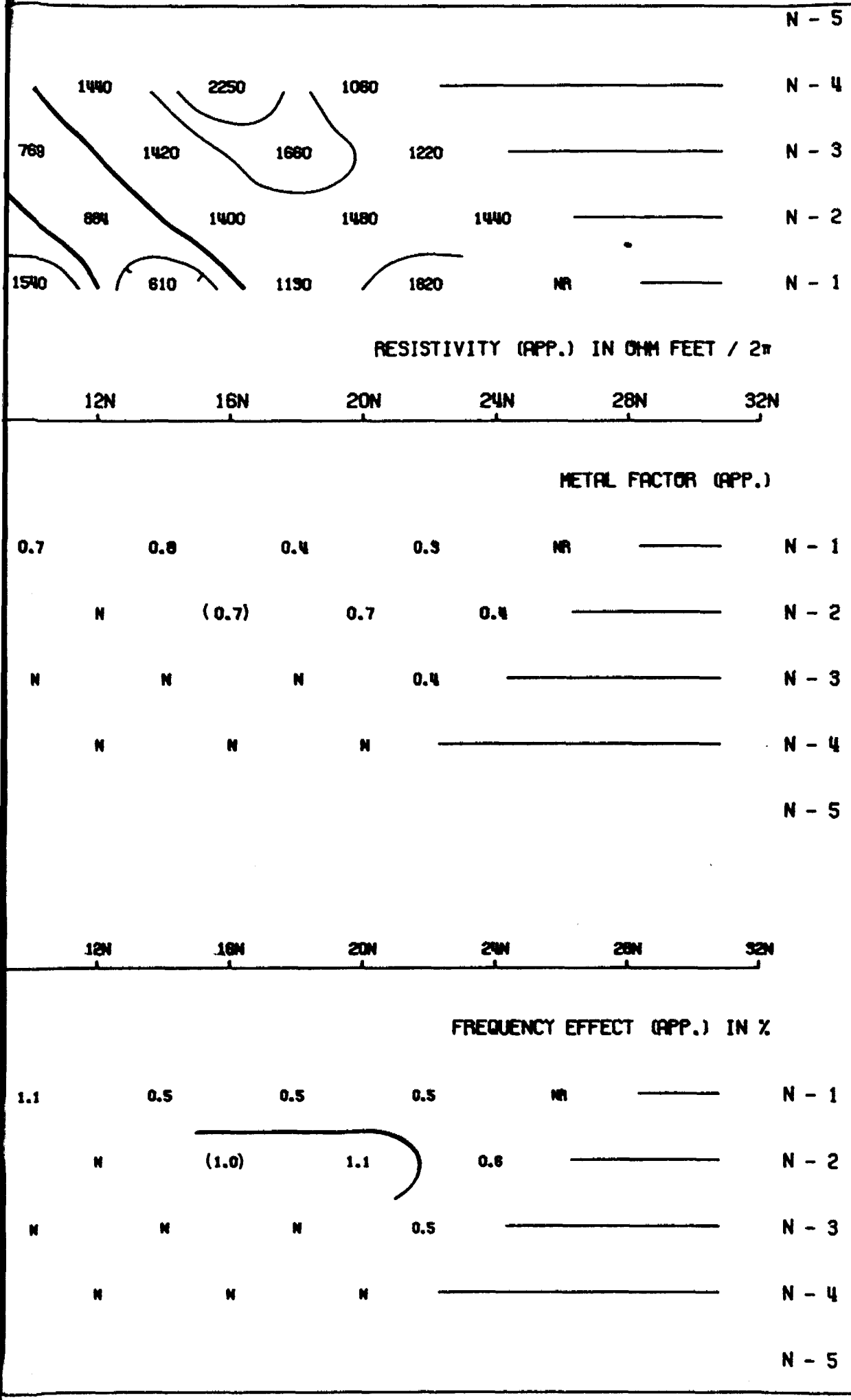
0.2 2.1 1.0 1.1 2.1 0.6 1.1 0.5 0.5 0.5 NR — N - 1

.5 1.8 (0.7) 1.5 1.4 (0.6) 1.0 N (1.0) 1.1 0.6 — N - 2

2.0 1.0 (1.5) 1.4 1.8 0.5 N N N 0.5 — N - 3

.7) 0.8 (2.1) 1.8 1.5 1.8 N N N N — N - 4

N - 5



2567

DWG. NO.- I.P.- 5814-5

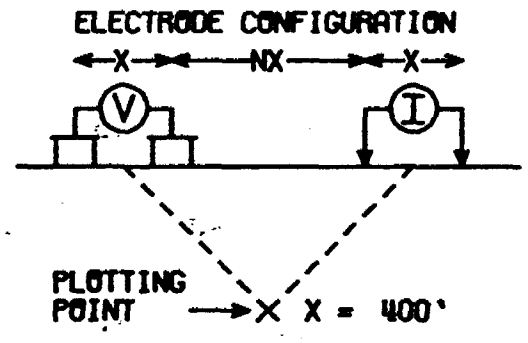
LAVA MINERALS LTD.

CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO

LINE NO.- 56W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ——————

PROBABLE ....

POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED:

DATE: 28th July 71

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER

N - 5

N - 4 — 207

N - 3 — 1070

N - 2 — 615 — 64

N - 1 — 406 — 282

RESISTIVITY (APP.) IN OHM FEET / 2π

28S 24S 20S 16

METAL FACTOR (APP.)

N - 1 — 1.5 — 0.7

N - 2 — 1.1 — 1.

N - 3 — 0.7

N - 4 — 0.

N - 5

28S 24S 20S 16

FREQUENCY EFFECT (APP.) IN %

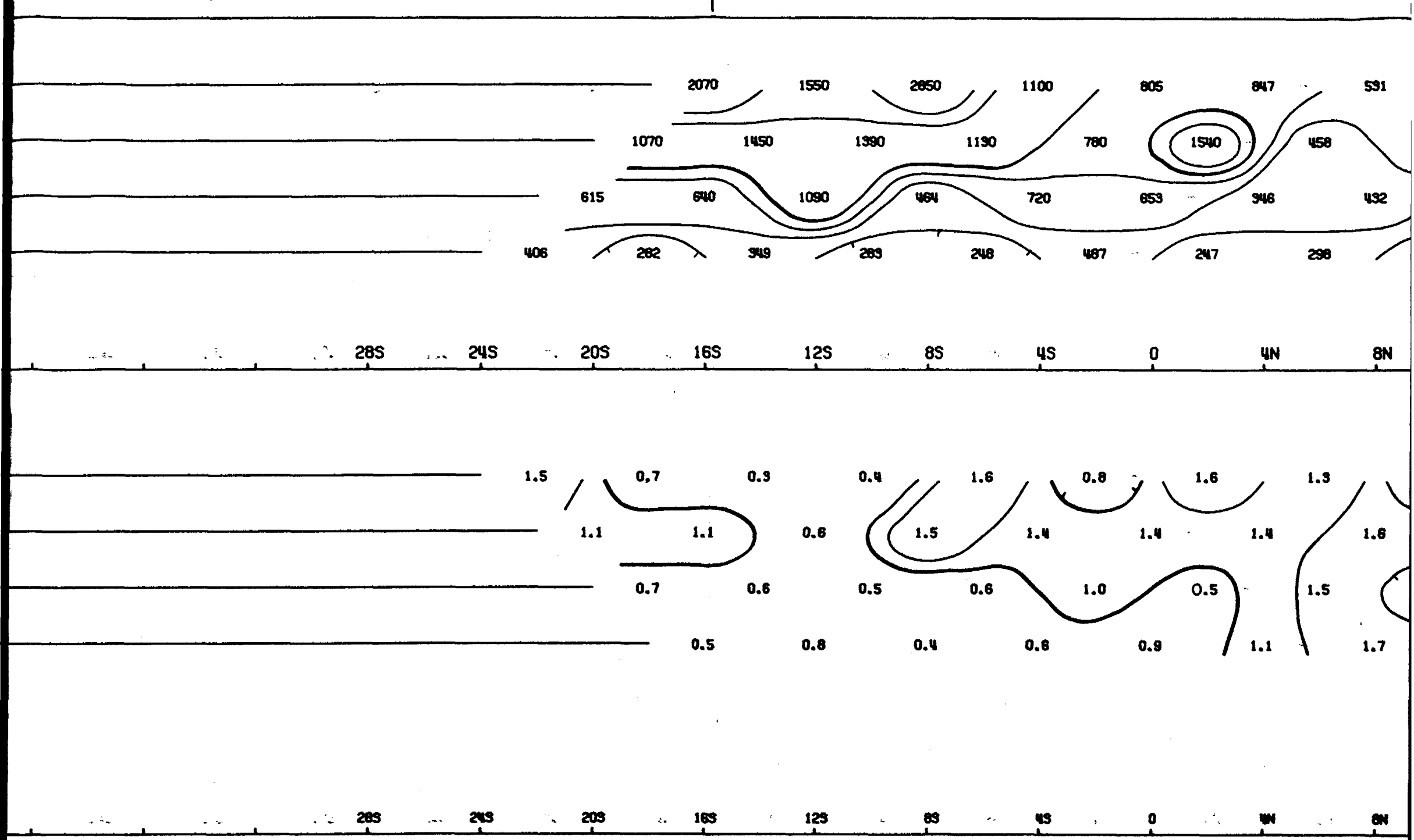
N - 1 — 0.6 — 0.2

N - 2 — 0.7 — 0.

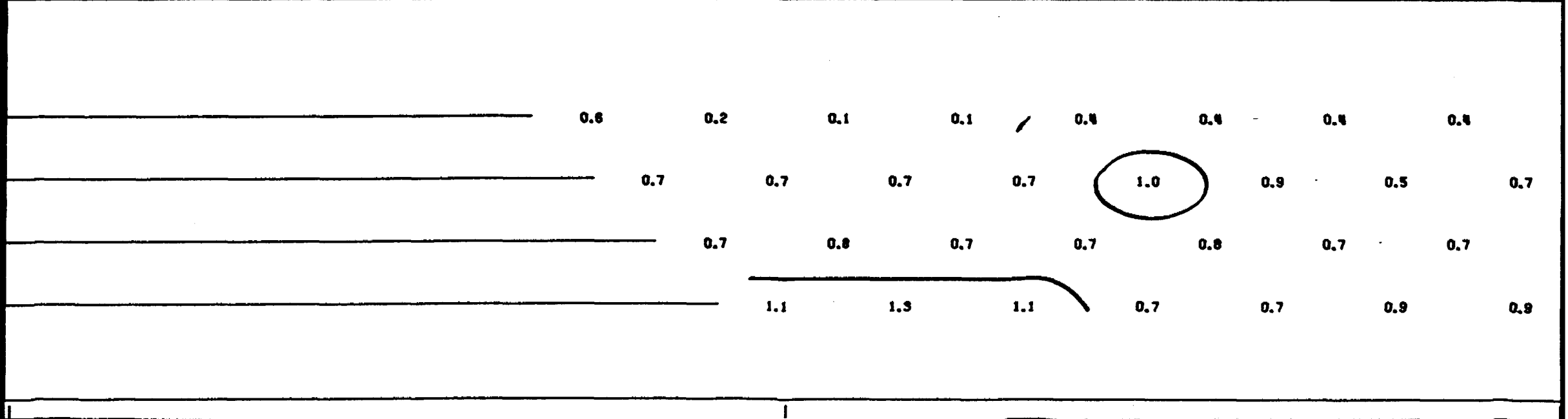
N - 3 — 0.7

N - 4 — 1.

N - 5


2070 1550 2650 1100 805 847 591
1070 1450 1390 1190 780 1540 458
615 640 1090 464 720 653 346 432
406 282 349 269 248 487 247 298
28S 24S 20S 16S 12S 8S 4S 0 4N 8N

1.5 0.7 0.3 0.4 1.6 0.8 1.6 1.3
1.1 1.1 0.6 1.5 1.4 1.4 1.4 1.6
0.7 0.6 0.5 0.6 1.0 0.5 1.5
0.5 0.8 0.4 0.8 0.9 1.1 1.7
28S 24S 20S 16S 12S 8S 4S 0 4N 8N


0.6 0.2 0.1 0.1 0.4 0.4 0.4 0.4
0.7 0.7 0.7 0.7 1.0 0.9 0.5 0.7
0.7 0.8 0.7 0.7 0.8 0.7 0.7
1.1 1.3 1.1 0.7 0.7 0.9 0.9

N - 5

0 1550 2650 1100 805 847 591 780 605 628 N - 4

1450 1390 1130 780 1540 458 548 376 347 448 N - 3

1090 464 720 653 346 432 246 226 233 295 N - 2

349 269 248 487 247 298 177 142 142 142 172 N - 1

RESISTIVITY (APP.) IN OHM FEET / 2π

S 12S 8S 4S 0 4N 8N 12N 16N 20N 24N 28N 32N

METAL FACTOR (APP.)

0.9 0.4 1.6 0.8 1.6 1.3 2.9 0.7 0.7 0.7 0.6 N - 1

0.6 1.5 1.4 1.4 1.4 1.6 1.6 0.9 0.4 0.3 N - 2

0.6 0.5 0.6 1.0 0.5 1.5 1.1 2.4 1.7 0.9 N - 3

0.8 0.4 0.6 0.9 1.1 1.7 1.8 1.5 1.4 N - 4

N - 5

S 12S 8S 4S 0 4N 8N 12N 16N 20N 24N 28N 32N

FREQUENCY EFFECT (APP.) IN %

0.1 0.1 0.4 0.4 0.4 0.4 0.4 0.1 0.1 0.1 0.1 N - 1

0.7 0.7 1.0 0.9 0.5 0.7 0.4 0.2 0.1 0.1 N - 2

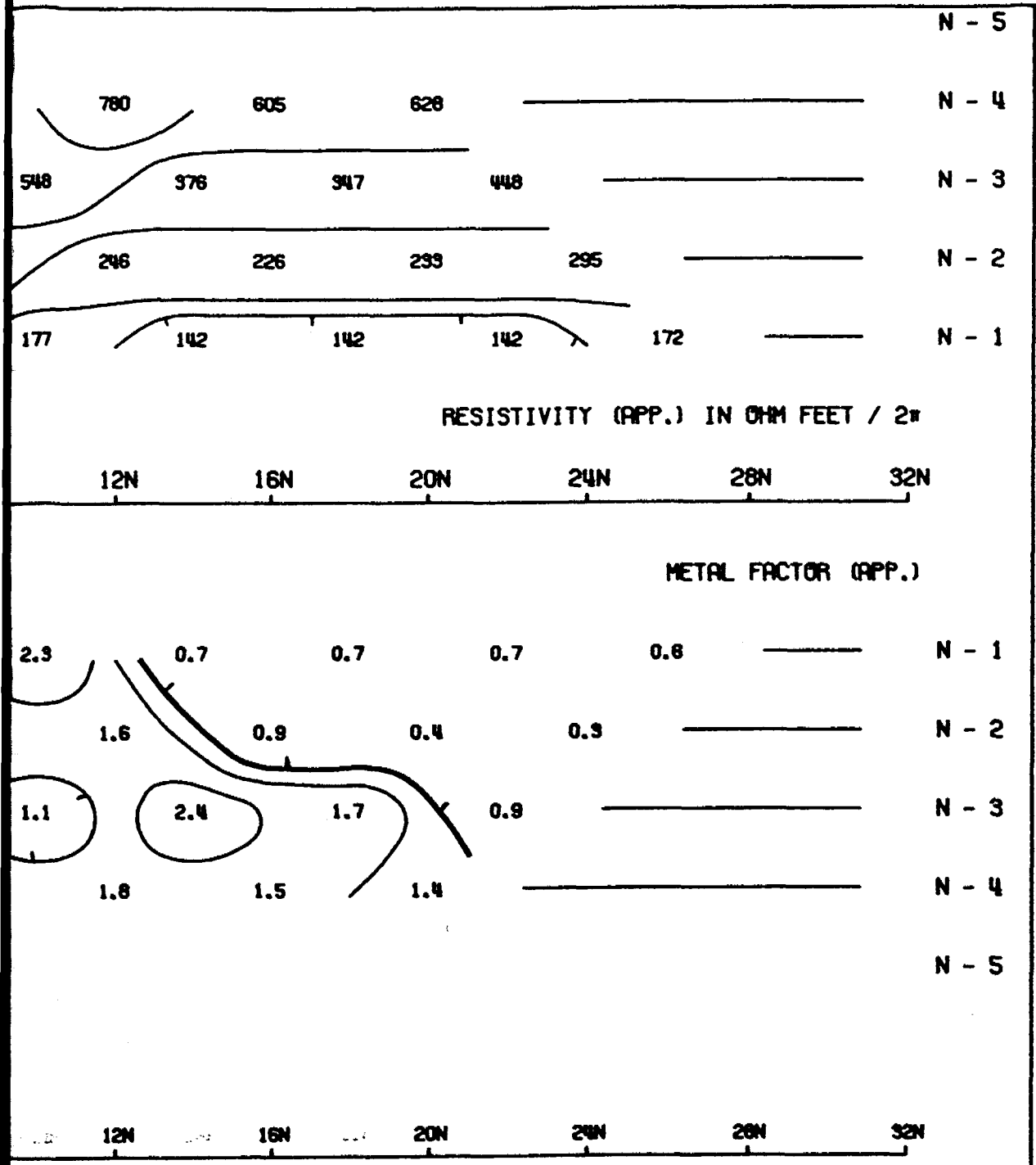
0.8 0.7 0.7 0.8 0.7 0.7 0.6 0.9 0.6 0.4 N - 3

1.3 1.1 0.7 0.7 0.9 0.9 1.4 0.9 0.9 N - 4

N - 5

2567

DWG. NO.- I.P.-5814-2



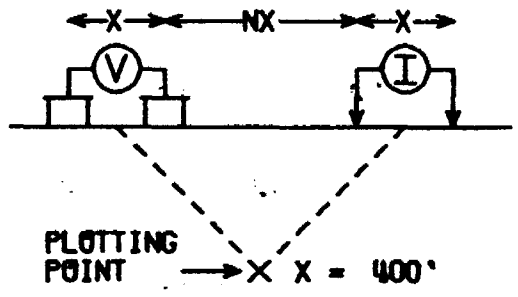
LAVA MINERALS LTD.

CHESTER TOWNSHIP

SUDBURY M.D., ONTARIO

LINE NO.- 68W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ——————

PROBABLE ∎∎∎∎∎∎∎∎∎∎∎∎∎∎

POSSIBLE / / / / /

FREQUENCIES: 0.31-5.0 HZ

DATE SURVEYED: FEB 1971

APPROVED:

DATE: 24th July 71

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: THIS PLOT WAS PRODUCED WITH AN IBM 360/65 COMPUTER AND A CALCOMP PLOTTER

ASSESSMENT WORK DETAILS

900

Type of Survey GEOPHYSICAL
A separate form is required for each typ

Township or Area Chester Township

Chief Line Cutter or Contractor William R. Miller
Name
9 Foxcote Crescent, Etobicoke, Ontario
Address

Party Chief J. Mark
Name
61 Borden Street, Toronto 4, Ontario
Address

Consultant Robert A. Bell
Name
50 Hemford Crescent, Don Mills
Address

Geological field mapping by K. Kingsbury,
Name
58 Oak Avenue, Richvale, Ontario
Address

COVERING DATES

Line Cutting January, 1971

Field February, 1971
Instrument work, geological mapping, sampling etc.

Office July, 1971

INSTRUMENT DATA

Make, Model and Type McPhar P660 IP Unit

Scale Constant or Sensitivity 0.3 & 5.0 Hz.
Or provide copy of instrument data from Manufacturer's brochure.

Radiometric Background Count N/A

Number of Stations Within Claim Group 285*

Number of Readings Within Claim Group 2292*

Number of Miles of Line cut Within Claim Group 18.6*

Number of Samples Collected Within Claim Group N/A

MINING CLAIMS TRAVERSED
List numerically

S 284546	✓
S 284547	✓
S 284548	✓
S 284549	no credit
S 284550	✓
S 284551	✓
S 284552	✓
S 284553	✓
S 284554	✓
S 284555	1/2 credit
S 284556	✓
S 284557	✓ 1 @ 40 days
S 284558	✓
S 284559	✓
S 284560	✓
S 284561	
S 284562	✓
S 284563	✓
S 284564	✓
S 284565	✓

TOTAL CLAIMS 20

If space insufficient, attach list

RECEIVED
AUG 18 1971
PROJECTS SECTION

CREDITS REQUESTED

	20 DAYS per claim	40 DAYS per claim	----- Includes (Line cutting)
Geological Survey	☐	☐	
Geophysical Survey	☐	☒	Show Check ✓
Geochemical Survey	☐	☐	

DATE August 12/71 SIGNED

Send in Duplicate to:

FRED W. MATTHEWS
SUPERVISOR-PROJECTS SECTION
DEPARTMENT OF MINES &
NORTHERN AFFAIRS
WHITNEY BLOCK
QUEEN'S PARK
TORONTO, ONTARIO

*** Please refer to Note on Schedule "A".**

Performance and coverage credits do not apply to airborne surveys

SUBMISSION OF GEOLOGICAL, GEOPHYSICAL AND GEOCHEMICAL SURVEYS

AS ASSESSMENT WORK

In order to simplify the filing of geological, geochemical and ground geophysical surveys for assessment work, the Minister has approved the following procedure under Section 84 (8a) of the Ontario Mining Act. This special provision does not apply to airborne geophysical surveys.

If, in the opinion of the Minister, a ground geophysical survey meets the requirements prescribed for such a survey, including:

(a) substantial and systematic coverage of each claim
(b) line spacing not exceeding 400 foot intervals
(c) stations not exceeding 100 foot intervals or
(d) the average number of readings per claim not less than 40 readings

it will qualify for a credit of 40 assessment work days for each claim so covered. It will not be necessary for the applicant to furnish any data or breakdown concerning the persons employed in the survey except for the names and addresses of those in charge of the various phases (linecutting contractor, etc.). It will be assumed that the required number of man days were spent in producing the survey to qualify for the specified credit.

Each additional ground geophysical survey using the same grid system and otherwise meeting these requirements will qualify for an assessment work credit of 20 days.

A geological survey using the same grid system, and meeting the requirements for submission of geological surveys for maximum credits will qualify for an assessment work credit of 20 days. If line cutting has not previously been reported with any other survey and is reported in conjunction with the geological survey a credit of 40 days per claim will be allowed for the survey.

Similarly, a geochemical survey using the same grid system with the average number of collected samples per claim being not less than 40 samples, and meeting the requirements for the submission of geochemical surveys for maximum credits, will qualify for an assessment work credit of 20 days. If line cutting has not previously been reported with any other survey and is reported in conjunction with the geochemical survey a credit of 40 days per claim will be allowed for the survey.

Credits for partial coverage or for surveys not meeting requirements for full credit will be granted on a pro-rata basis.

If the credits are reduced for any reason, a fifteen day Notice of Intent will be issued. During this period, the applicant may apply to the Mining Commissioner for relief if his claims are jeopardized for lack of work or, if he wishes, may file with the Department, normal assessment work breakdowns listing the names of the employees and the dates of work. The survey would then be re-assessed to determine if higher credits may be allowed under the provisions of subsections 8 and 9 of section 84 of the Mining Act.

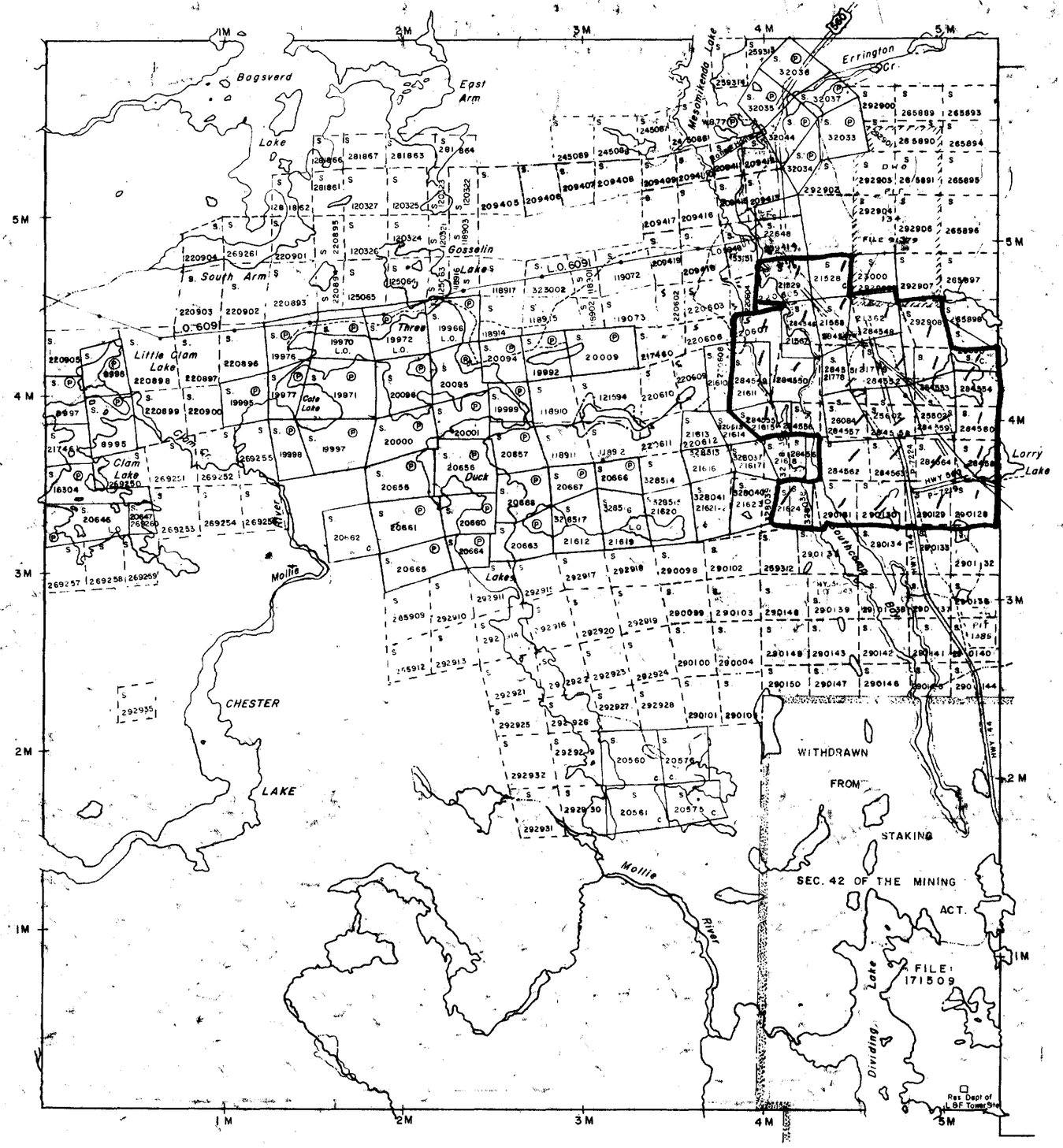
If new breakdowns are not submitted, the Performance and Coverage credits are confirmed to the Mining Recorder at the end of the fifteen days.

Neville Twp. (M.-888)

Yeo Twp. (M-1188)

Bennewels Twp. (M-658)

Invergarry Twp. (M.-948)



THE TOWNSHIP OF
Claim Map

CHESTER

DISTRICT OF SUDBURY

SUDBURY MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

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

NOTES

400' Surface Rights Reservation around all Lakes and Rivers.

Flooding Rights To 1200' Contour Reserved To M.E.P.C. File: 10621.

DATE OF ISSUE
AUG 20 1971
ONT. DEPT. OF MINES AND NORTHERN AFFAIRS

PLAN NO.- M. 717

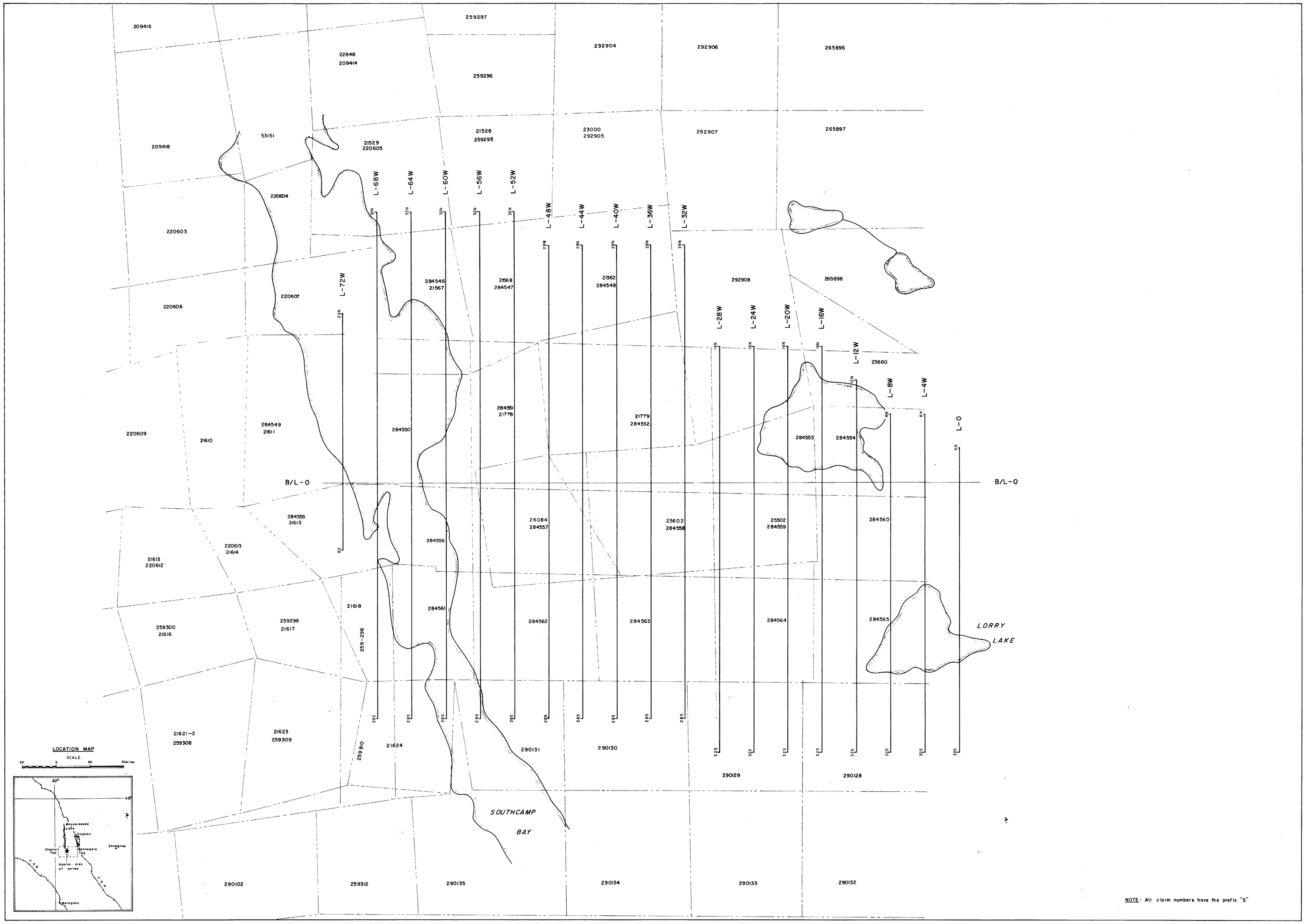
ONTARIO
DEPARTMENT OF MINES
AND NORTHERN AFFAIRS

DWG.-IPP-4781

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

PLAN MAP



NOTE: All claim numbers have the prefix "S"

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE
PROBABLE
POSSIBLE

Number at the end of anomaly indicates electrode interval

LAVA MINERALS LTD.

CHESTER AND BENNEWEISS TOWNSHIPS

SUDBURY M.D., ONTARIO

SCALE

ONE INCH EQUALS FOUR HUNDRED FEET

DRAWN: KJK

DATE: JULY 1971

APPROVED:

DATE:

McPHAR GEOPHYSICS LIMITED

2567

A1P1250R0119 2.567 CHESTER

210

DWG.-IPP-4781