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**MICROFILMED**

REPORT ON THE  
 FURTHER INDUCED POLARIZATION  
 AND RESISTIVITY SURVEYS  
 IN THE  
 MT. TYNDALL AREA, TASMANIA  
 FOR  
 MT. LYELL MINING AND RAILWAY CO. LTD.

D. OF M.	A.O.	C.G.	E.O.	DE
D. DIR.	OCT 1984			Re
	DEPT. OF MINES			
	REF. No. 10,076/84			

**McPHAR GEOPHYSICS**

NOTES ON THE THEORY, METHOD OF FIELD OPERATION  
AND PRESENTATION OF DATA  
FOR THE INDUCED POLARIZATION METHOD

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Induced Polarization as a geophysical measurement refers to the blocking action or polarization of metallic or electronic conductors in a medium of ionic solution conduction.

This electro-chemical phenomenon occurs wherever electrical current is passed through an area which contains metallic minerals such as base metal sulphides. Normally, when current is passed through the ground, as in resistivity measurements, all of the conduction takes place through ions present in the water content of the rock, or soil, i. e. by ionic conduction. This is because almost all minerals have a much higher specific resistivity than ground water. The group of minerals commonly described as "metallic", however, have specific resistivities much lower than ground waters. The induced polarization effect takes place at those interfaces where the mode of conduction changes from ionic in the solutions filling the interstices of the rock to electronic in the metallic minerals present

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in the rock.

The blocking action or induced polarization mentioned above, which depends upon the chemical energies necessary to allow the ions to give up or receive electrons from the metallic surface, increases with the time that a d. c. current is allowed to flow through the rock; i. e. as ions pile up against the metallic interface the resistance to current flow increases. Eventually, there is enough polarization in the form of excess ions at the interfaces, to appreciably reduce the amount of current flow through the metallic particle. This polarization takes place at each of the infinite number of solution-metal interfaces in a mineralized rock.

When the d. c. voltage used to create this d. c. current flow is cut off, the Coulomb forces between the charged ions forming the polarization cause them to return to their normal position. This movement of charge creates a small current flow which can be measured on the surface of the ground as a decaying potential difference.

From an alternate viewpoint it can be seen that if the direction of the current through the system is reversed repeatedly before the polarization occurs, the effective resistivity of the system as a whole will change as the frequency of the switching is changed. This is a consequence of the fact that the amount of current flowing through each metallic interface depends upon the length of time that current has been passing through it in one direction.

The values of the per cent frequency effect or F. E. are a measurement of the polarization in the rock mass. However, since the measurement of the degree of polarization is related to the apparent resistivity of the rock mass it is found that the metal factor values or M. F. are the most useful values in determining the amount of polarization present in the rock mass. The MF values are obtained by normalizing the F. E. values for varying resistivities.

The induced polarization measurement is perhaps the most powerful geophysical method for the direct detection of metallic sulphide mineralization, even when this mineralization is of very low concentration. The lower limit of volume per cent sulphide necessary to produce a recognizable IP anomaly will vary with the geometry and geologic environment of the source, and the method of executing the survey. However, sulphide mineralization of less than one per cent by volume has been detected by the IP method under proper geological conditions.

The greatest application of the IP method has been in the search for disseminated metallic sulphides of less than 20% by volume. However, it has also been used successfully in the search for massive sulphides in situations where, due to source geometry, depth of source, or low resistivity of surface layer, the EM method can not be successfully applied. The ability to differentiate ionic conductors, such as water filled shear zones, makes the IP method a useful tool in checking EM

anomalies which are suspected of being due to these causes.

In normal field applications the IP method does not differentiate between the economically important metallic minerals such as chalcopyrite, chalcocite, molybdenite, galena, etc., and the other metallic minerals such as pyrite. The induced polarization effect is due to the total of all electronic conducting minerals in the rock mass. Other electronic conducting materials which can produce an IP response are magnetite, pyrolusite, graphite, and some forms of hematite.

In the field procedure, measurements on the surface are made in a way that allows the effects of lateral changes in the properties of the ground to be separated from the effects of vertical changes in the properties. Current is applied to the ground at two points in distance (X) apart. The potentials are measured at two other points (X) feet apart, in line with the current electrodes is an integer number (n) times the basic distance (X).

The measurements are made along a surveyed line, with a constant distance (nX) between the nearest current and potential electrodes. In most surveys, several traverses are made with various values of (n); i. e. (n) = 1, 2, 3, 4, etc. The kind of survey required (detailed or reconnaissance) decides the number of values of (n) used.

In plotting the results, the values of the apparent resistivity, apparent per cent frequency effect, and the apparent metal factor

measured for each set of electrode positions are plotted at the intersection of grid lines, one from the center point of the current electrodes and the other from the center point of the potential electrodes. (See Figure A.) The resistivity values are plotted above the line as a mirror image of the metal factor values below. On a second line, below the metal factor values, are plotted the values of the per cent frequency effect. In some cases the values of per cent frequency effect are plotted as superscripts of the metal factor value. In this second case the frequency effect values are not contoured. The lateral displacement of a given value is determined by the location along the survey line of the center point between the current and potential electrodes. The distance of the value from the line is determined by the distance ( $nX$ ) between the current and potential electrodes when the measurement was made.

The separation between sender and receiver electrodes is only one factor which determines the depth to which the ground is being sampled in any particular measurement. The plots then, when contoured, are not section maps of the electrical properties of the ground under the survey line. The interpretation of the results from any given survey must be carried out using the combined experience gained from field results, model study results and theoretical investigations. The position of the electrodes when anomalous values are measured is important in the interpretation.

In the field procedure, the interval over which the potential differences are measured is the same as the interval over which the electrodes are moved after a series of potential readings has been made. One of the advantages of the induced polarization method is that the same equipment can be used for both detailed and reconnaissance surveys merely by changing the distance (X) over which the electrodes are moved each time. In the past, intervals have been used ranging from 25 feet to 2000 feet for (X). In each case, the decision as to the distance (X) and the values of (n) to be used is largely determined by the expected size of the mineral deposit being sought, the size of the expected anomaly and the speed with which it is desired to progress.

The diagram in Figure A demonstrates the method used in plotting the results. Each value of the apparent resistivity, apparent metal factor, and apparent per cent frequency effect is plotted and identified by the position of the four electrodes when the measurement was made. It can be seen that the values measured for the larger values of (n) are plotted farther from the line indicating that the thickness of the layer of the earth that is being tested is greater than for the smaller values of (n); i. e. the depth of the measurement is increased. When the F. E. values are plotted as superscripts to the MF values the third section of data values is not presented and the F. E. values are not contoured.

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1. INTRODUCTION

A previous report dated June 9, 1967, described the first induced polarization and resistivity results from the Mt. Tyndall Area. This work was confined to what is now called the Tyndall East Grid. The reconnaissance survey covered a strike length of approximately 4-1/2 miles, and only a small amount of detail was done.

The anomalies located by the previous survey were of variable magnitude. However, there were several anomalies that were large in magnitude, and definite. The detailed geology of the area is not known, but many of the IP anomalies are important enough to warrant detail.

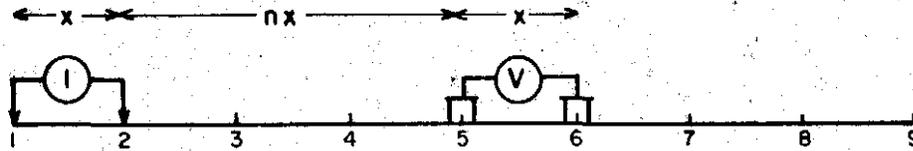
In the survey to be described in this report, the detail recommended on the Tyndall East Grid has been completed. In addition, several reconnaissance lines have been surveyed west of the Henty River on the Tyndall West Grid.

2. PRESENTATION OF RESULTS

The induced polarization and resistivity results are shown on

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### METHOD USED IN PLOTTING DIPOLE-DIPOLE INDUCED POLARIZATION AND RESISTIVITY RESULTS



Stations on line

x = Electrode spread length  
n = Electrode separation

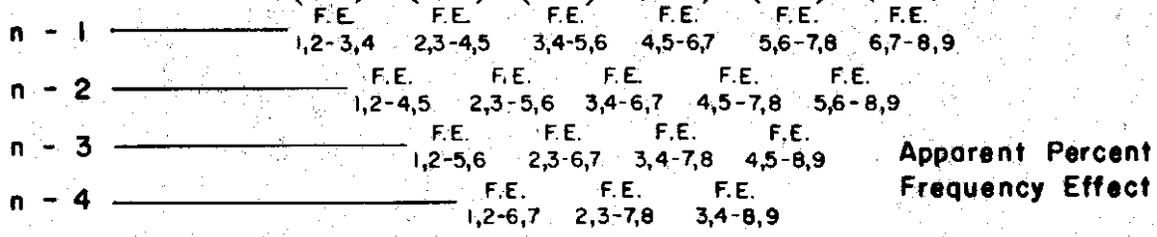
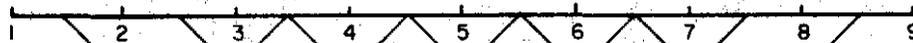
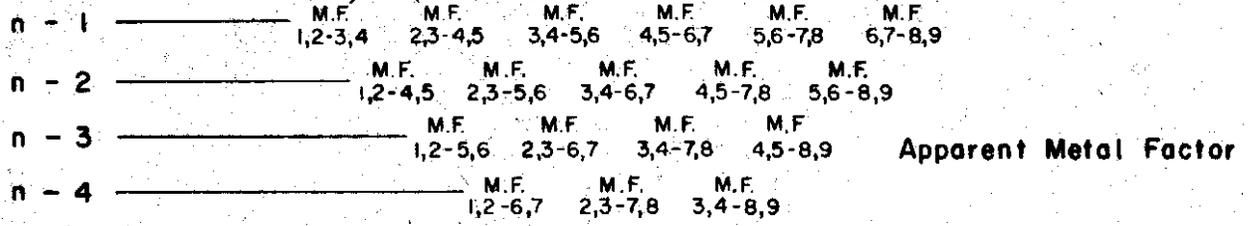
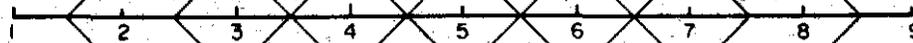
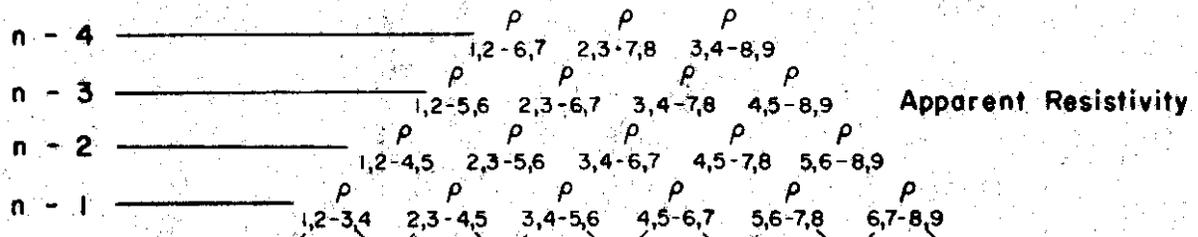


Fig. A

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the following data plots in the accompanying booklet. The results are plotted in the manner described in the notes preceding this report.

A) Tyndall West Grid

<u>Line No.</u>	<u>Electrode Intervals</u>	<u>Dwg. No.</u>
2	300 foot	IP 5107-1
4	300 foot	IP 5107-2
6	300 foot	IP 5107-3
8	300 foot	IP 5107-4
10	300 foot	IP 5107-5
12	300 foot	IP 5107-6
14	300 foot	IP 5107-7
16	300 foot	IP 5107-8
18	300 foot	IP 5107-9
20	300 foot	IP 5107-10
22	300 foot	IP 5107-11
24	300 foot	IP 5107-12
26	300 foot	IP 5107-13
28	300 foot	IP 5107-14

B) Tyndall East Grid

4	100 foot	IP 5108-1
6+400S	200 foot	IP 5108-2
6+200S	100 foot	IP 5108-3
6	200 foot	IP 5108-4
	200 foot	IP 5108-4a

<u>Line No.</u>	<u>Electrode Intervals</u>	<u>Dwg. No.</u>
6	100 foot	IP 5108-5
6+200N	100 foot	IP 5108-6
6+400N	200 foot	IP 5108-7
8	100 foot	IP 5108-8
10+200S	100 foot	IP 5108-9
10	200 foot	IP 5108-10
	100 foot	IP 5108-11
10+200N	100 foot	IP 5108-12
12+300S	200 foot	IP 5108-13
12+200S	100 foot	IP 5108-14
12	100 foot	IP 5108-15
12+200N	100 foot	IP 5108-16
12+300N	200 foot	IP 5108-17
14+300S	300 foot	IP 5108-18
16+200S	100 foot	IP 5108-19
16+200S	100 foot	IP 5108-20
16+100S	100 foot	IP 5108-21
16	100 foot	IP 5108-22
16+100N	100 foot	IP 5108-23
16+200N	100 foot	IP 5108-24
16+200N	100 foot	IP 5108-25
18+200S	100 foot	IP 5108-26
18	100 foot	IP 5108-27
18+200N	100 foot	IP 5108-28

<u>Line No.</u>	<u>Electrode Intervals</u>	<u>Dwg. No.</u>
20+200S	100 foot	IP 5108-29
20	100 foot	IP 5108-30
20+200N	100 foot	IP 5108-31
22+400S	100 foot	IP 5108-32
22+200S	100 foot	IP 5108-33
22	100 foot	IP 5108-34
22+200N	100 foot	IP 5108-35
22+400N	100 foot	IP 5108-36
24+200S	100 foot	IP 5108-37
24	100 foot	IP 5108-38
24+200N	100 foot	IP 5108-39
28+200S	100 foot	IP 5108-40
28	100 foot	IP 5108-41
28+200N	100 foot	IP 5108-42
30	100 foot	IP 5108-43
	100 foot	IP 5108-44
32	100 foot	IP 5108-45
34	100 foot	IP 5108-46
36	100 foot	IP 5108-47
38	200 foot	IP 5108-48
	200 foot	IP 5108-49
	100 foot	IP 5108-50

The plan maps enclosed with the previous report on the reconnaissance data from the Tyndall East Grid were in error. The line interval

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is shown as 2640', while the actual interval is 1320'. Further, the direction shown for the lines is not correct. The plan has now been corrected using information forwarded by the staff of Mt. Lyell Mining and Railway Company Limited. Enclosed with this report is Dwg. I. P. P. 4402, a modified plan map of the two grids at a scale of 1" = 1,000'. The definite and possible induced polarization anomalies are indicated by solid and broken bars respectively on this plan map as well as 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 spread length; i. e. when using 200 foot spreads the position of a narrow sulphide body can only be determined to lie between two stations 200 feet apart. In order to locate sources at some depth, larger spreads 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.

The resistivity level in the Mt. Tyndall Area is relatively high. There are large areas of relatively constant values, and these have been interpreted on the data plots into zones of high resistivity (greater than 1000) and zones of low resistivity (less than 1000). These zones have been

transferred to a copy of the plan map (R 4403) and correlated.

3. DISCUSSION OF RESULTS

A) Tyndall West Grid

The reconnaissance induced polarization and resistivity results from the Tyndall West Grid are very similar to those from the previous survey on the Tyndall East Grid. Several definite anomalies were located, and most of them may be correlated into zones. This has been done, as shown on Dwg. I.P.P, 4402.

Zone I

This anomaly is shown on only two lines; it is stronger on Line No. 6 than on Line No. 8. The shallow, narrow, large magnitude anomaly centred at 18E on Line No. 6 should be checked using shorter electrode intervals. Closely spaced parallel lines should also be surveyed so that a drill hole may be spotted.

Zone II

This anomaly was located only on Line No. 12. The pattern suggests that the line passes approximately parallel to the source; therefore, closely spaced lines should be surveyed.

Zone III

This moderate magnitude zone is indicated to be shallow on Line No. 18; it should be checked using shorter electrode intervals.

Zone IV

This long zone extends beyond the north end of the grid. The source is shallow at some points (Line No. 22) and at depth on other lines (Line No. 24). The source for Zone IV is indicated to be shallow at Line No. 22, 0+00 to 3E and at Line No. 28, 15E. These anomalies should be checked using shorter electrode intervals. If the anomaly is confirmed, closely spaced, parallel lines should also be surveyed.

Zone V

This zone lies about one-quarter mile west of Zone IV. The source is very strong, and at depth on Line No. 22; it is shallow on Line No. 24, and on Line No. 26. The anomaly centred at Line No. 24, 8W to 5W should be checked with 200 foot electrode intervals and perhaps 100 foot electrode intervals. The much narrower anomaly centred at Line No. 26, 3E to 6E should also be checked using shorter spreads.

Zone VI

This zone is indicated to be at moderate depth at Line No. 26, 21E and Line No. 28, 21E to 24E. Both anomalies should be checked using 200 foot electrode intervals.

Zone VII

This zone extends to the north of the grid. The source is indicated to be at moderate depth on Line No. 26, 12W and at considerable depth at Line No. 28, 12W to 6W. The anomaly at Line No. 26, 12W should be checked using 200 foot electrode intervals, and lines 200 feet to the north and south should be surveyed.

Zone VIII

This anomalous zone occurs at the western end of two lines. The measurements would have to be extended to complete the anomaly.

B) Tyndall East Grid

The detailed measurements on the Tyndall East Grid have given additional information about the anomalies previously located. The anomalies have been correlated into zones, as shown on Dwg. I. P. P. 4402. Some of the zones appear to be of definite importance.

Zone A

This zone has been detailed at Line No. 6; the results suggest a relatively broad, moderate magnitude source at 3W to 1W. The anomaly is weaker on the lines 400 feet to the north and south. The strongest portion of the source is indicated to be at some depth.

Zone B

This zone has a considerable strike length. The anomaly is moderate in magnitude; on Line No. 4 the source is quite broad, or the line is running parallel to the source. In the vicinity of Line No. 6, the source has less width, and the strongest portion of the source is indicated to be at depth.

Zone C1

This is the southernmost of four zones that extend along strike, in a discontinuous manner, across the entire length of the Tyndall East Grid.

The 100 foot spread measurements show a very strong anomaly, at depth, centred at Line No. 12, 24E. The anomaly is also definite on the lines to the north and south. The pattern suggests that the top of the source may be at a depth of 200 feet.

Zone C2

This very strong anomaly has been detailed on two lines; in both cases there is some depth to the top of the source. The source is indicated to be quite narrow in the vicinity of Line No. 18, and somewhat broader in the vicinity of Line No. 16.

Zone C3

This zone is located at depth, in a region of high apparent resistivities. Under these conditions it is difficult to fully evaluate its importance. The pattern shows a narrow source at depth at Line No. 24, 24W to 23W. The anomaly seems to be more definite on Line No. 24+200N, but the measurements do not extend far enough to complete the anomalous pattern.

Zone C4

This long zone extends beyond the northern edge of the grid. The anomaly is weaker than the other zones to the south. The source is indicated to be complex in the vicinity of Line No. 28 and the detail on Line No. 36 and Line No. 38 suggests a broad, weak source.

Zone D

This zone lies about one-half mile east of Zone C4. On Line

No. 30, 4E, there is a narrow, shallow, large magnitude anomaly. The source could be better located using 50 foot electrode intervals.

Zone E

This zone was only detected on Line No. 38; it extends to the north off the grid. The 200 foot spread data shows a shallow, narrow source centred at 12W to 10W. The source could be better located, and evaluated, using shorter electrode intervals.

4. CONCLUSIONS AND RECOMMENDATIONS

The continued induced polarization and resistivity survey in the Mt. Tyndall Area has confirmed the presence of several anomalous zones of definite interest. When some geologic information is available, the IP anomalies can be correlated. The resistivity zones shown on Dwg. R 4403 may be of assistance in correlating the geologic data. There are distinct contacts between high resistivity rocks (values greater than 1000) and low resistivity rocks (values less than 1000).

Even without geologic confirmation of the possible importance of the IP anomalies, further work is warranted unless geologic examinations have revealed the nature of the source.

A) Tyndall West Grid

The reconnaissance survey completed west of the Henty River has located several IP anomalies that are very similar to those previously outlined on the Tyndall East Grid. The necessary detailed measurements with shorter electrode intervals, and on intermediate lines, have been

recommended above. When this data is available, drilling can be planned.

B) Tyndall East Grid

The detailed measurements on the Tyndall East Grid have been completed. The anomalous zones are well located, and some evaluation is possible. The characteristics of the various zones are different. However, until additional geologic information is available, it is difficult to know whether the strong IP anomalies or the weak IP anomalies are of the greater potential importance.

Zone A - There is now enough information to consider a drill hole to test this anomaly. An angle hole spotted to pass beneath Line No. 6 2+00W at a depth of 300 feet should intersect the source.

Zone B - This broad, complex source is also clearly outlined on Line No. 6. An angle hole drilled at -45° to the east from 44+50E should intersect the shallow source as well as the deeper portion to the east.

Zone C1 - A single angle drill hole located to pass beneath Line No. 12, 24+00E, at a depth of 175 feet to 200 feet, should intersect the source of this anomaly.

Zone C2 - Two drill holes are recommended to test this strong anomaly:  
beneath Line No. 16+200N, 7+50E at depth of 150 feet to 175 feet  
beneath Line No. 18+200N, 1+50W at depth of 125 feet to 150 feet

Zone C3 - The strongest anomaly from this zone is at the western end of Line No. 24+200N. However, it would be necessary to extend the

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measurements to the west, to complete the anomalous pattern, before a drill hole can be spotted. Alternately, it would be possible to drill a hole to test the weaker anomaly on Line No. 24. A hole spotted to pass beneath 23+50W at a depth of 125 feet to 150 feet should give some indication of the type of metallic mineralization causing the anomalous IP effects.

Zone C4 - The anomalies on this zone are much weaker than those to the south. Drilling is probably not warranted immediately, unless there is some other data (geological, geochemical, etc.) that suggests the area is important. If the zone is to be tested by drilling, two locations are possible:

beneath Line No. 28+200N, 29+00W at depth of 125 feet to 150 feet  
beneath Line No. 36, 23+00W at depth of 100 feet to 125 feet

Zone D - The shallow, narrow source at Line No. 30, 4E clearly locates this definite anomaly. The source could be better located using 50 foot electrode intervals, or an angle hole could be spotted to pass beneath 4+00E at a depth of 100 feet.

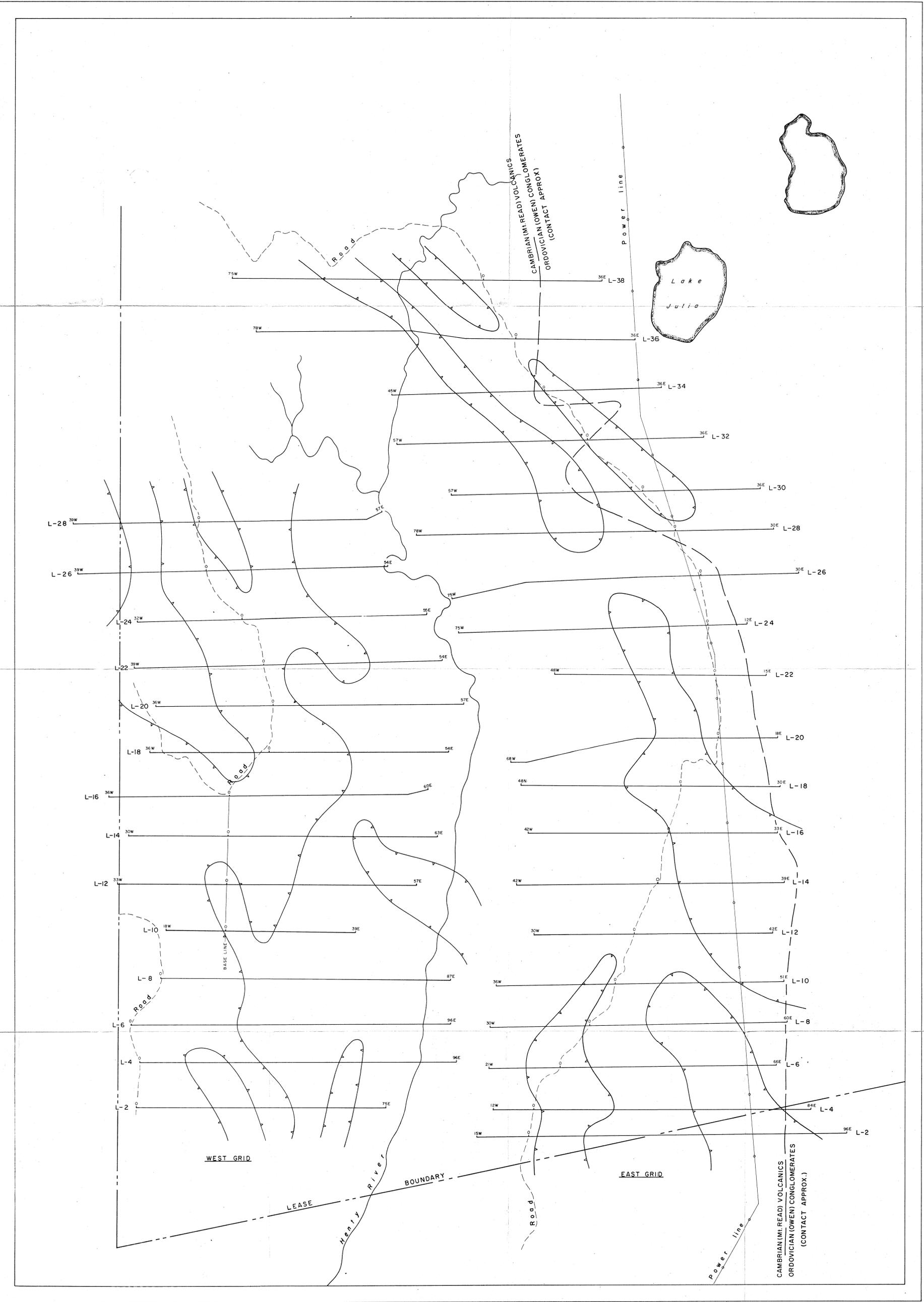
Zone E - The 200 foot spread measurements show a shallow, narrow source at 12W to 10W on Line No. 38. The anomaly should be detailed using 100 foot spreads, and closely spaced lines, so that a drill hole location can be chosen.

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The need for further work will depend upon the results of the program outlined above.

MCPHAR GEOPHYSICS PTY. LTD.  
*Philip G. Hallof*  
Philip G. Hallof,  
Geophysicist.

Dated: June 4, 1968

McPHAR GEOPHYSICS  
RESISTIVITY SURVEY  
PLAN MAP



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.  
MOUNT TYNDALL AREA, TASMANIA.

SCALE  
One inch = 1000 feet

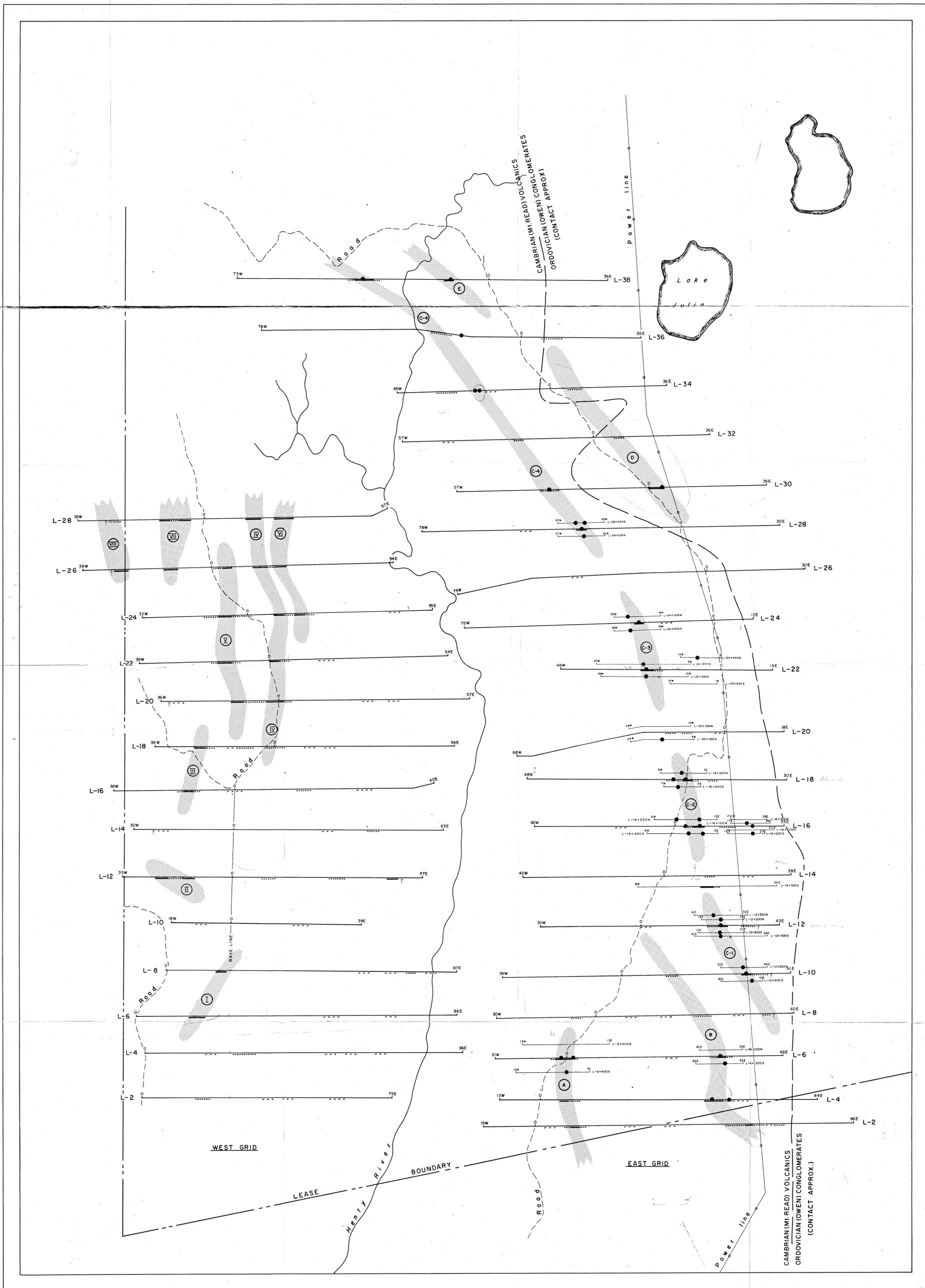
AREA OF LOW RESISTIVITY  
ρ/2w LESS THAN 1000

HIGH RESISTIVITY AREAS  
ρ/2w GREATER THAN 1000

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DRAWN BY R.P.Y.C.  
DATE MAY 1968  
APPROVED  
DATE 6/5/68  
L-22-1

McPHAR GEOPHYSICS  
 INDUCED POLARIZATION AND RESISTIVITY SURVEY  
 PLAN MAP



MAGNETIC  
  
 TRUE NORTH 11°30' WEST

SURFACE PROJECTION  
 OF ANOMALOUS ZONES  
 DEFINITE —————  
 PROBABLE - - - - -  
 POSSIBLE - · - · - ·

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.  
 MOUNT TYNDALL AREA, TASMANIA.

SCALE  
 One inch = 1000 feet  
 1:12000



NOTE  
 ANOMALIES SHOWN BY BARS—BROKEN, DASHED OR SOLID,  
 ARE FROM RECONNAISSANCE I.P. DATA, 400 OR 300 FT.  
 ELECTRODE INTERVALS.  
 CIRCLES ARE CENTRE POINT OF DEFINITE ANOMALIES  
 FROM DETAIL I.P. DATA, 100 OR 200 FT. ELECTRODE  
 INTERVALS  
 POSSIBLE AND PROBABLE DETAIL ANOMALIES NOT SHOWN.

8 ANOMALOUS I.P. ZONE

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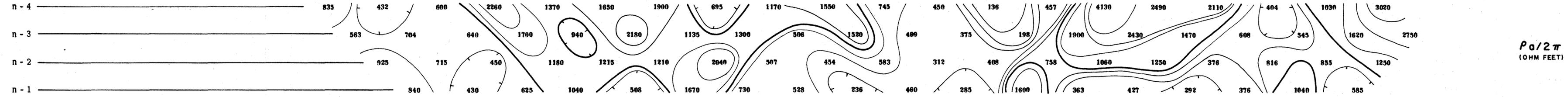
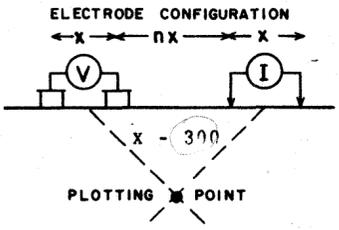
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339023

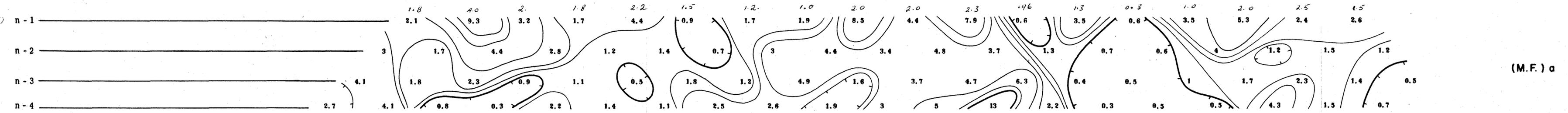
NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

# McPHAR GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



$\rho_a / 2\pi$   
(OHM FEET)



(M.F.) a

## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

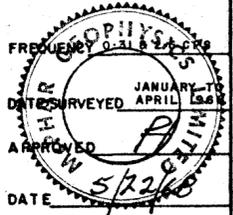
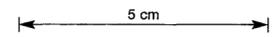
MOUNT TYNDALL AREA, TASMANIA

WEST GRID

Scale—One inch= 300 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES  
DEFINITE   
PROBABLE   
POSSIBLE

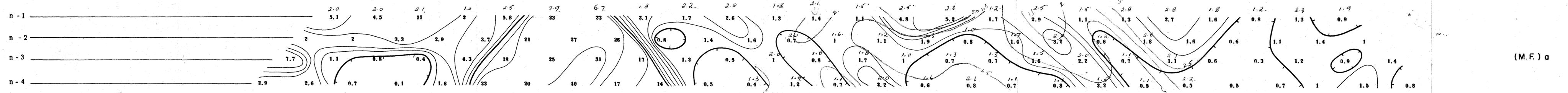
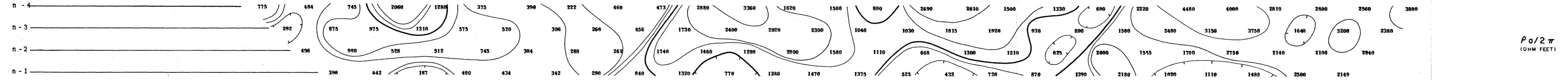
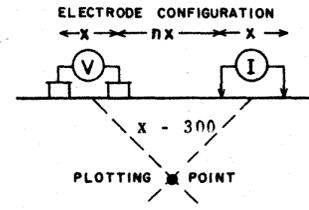


LINE NO.-2

339024 NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

### McPHAR GEOPHYSICS LIMITED

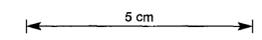
INDUCED POLARIZATION AND RESISTIVITY SURVEY



### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA

WEST GRID  
Scale—One inch= 300 Feet



NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES  
DEFINITE   
PROBABLE   
POSSIBLE

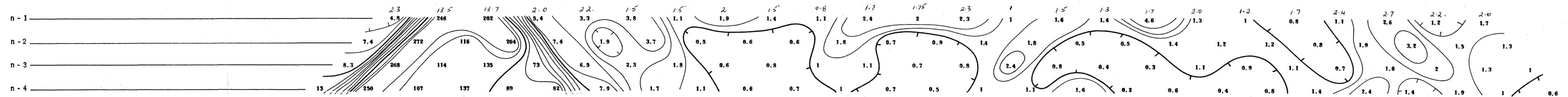
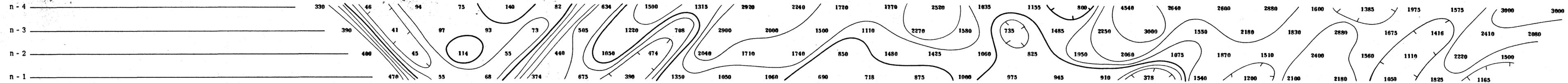
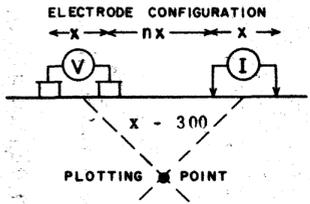
023 DATE

LINE NO 4

339025 NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

# McPHAR GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

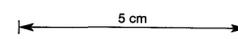


## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
WEST GRID

Scale—One inch= 300 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL



SURFACE PROJECTION OF ANOMALOUS ZONES  
DEFINITE   
PROBABLE   
POSSIBLE

McPHAR GEOPHYSICS  
FREQUENCY 0.31 & 2.0 C.P.S.  
DATE SURVEYED JANUARY TO APRIL 1988  
APPROVED   
DATE 5/22/88

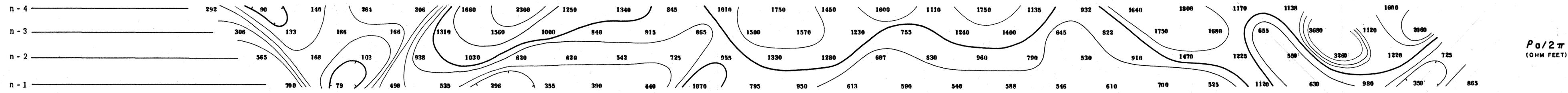
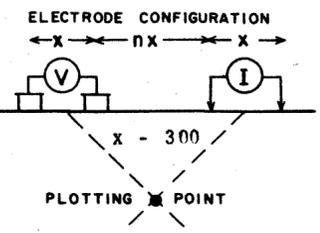
LINE NO. 6

339026

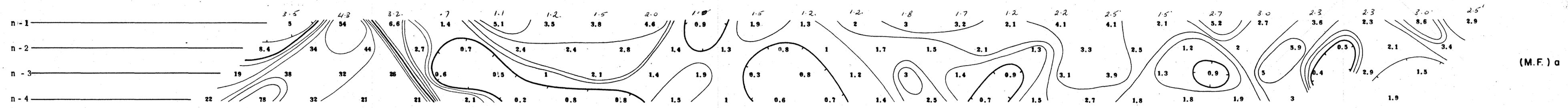
NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

# McPHAR GEOPHYSICS LIMITED

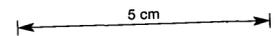
INDUCED POLARIZATION AND RESISTIVITY SURVEY



3E 6E 9E 12E 15E 18E 21E 24E 27E 30E 33E 36E 39E 42E 45E 48E 51E 54E 57E 60E 63E 66E 69E 72E 75E 78E 81E 84E 87E



SURFACE PROJECTION OF ANOMALOUS ZONES  
DEFINITE   
PROBABLE   
POSSIBLE

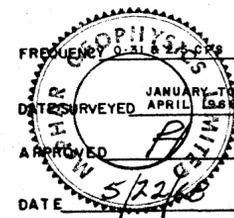


## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
WEST GRID

Scale—One inch = 300 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

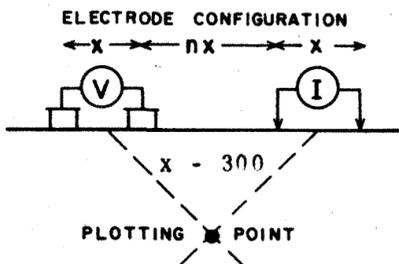


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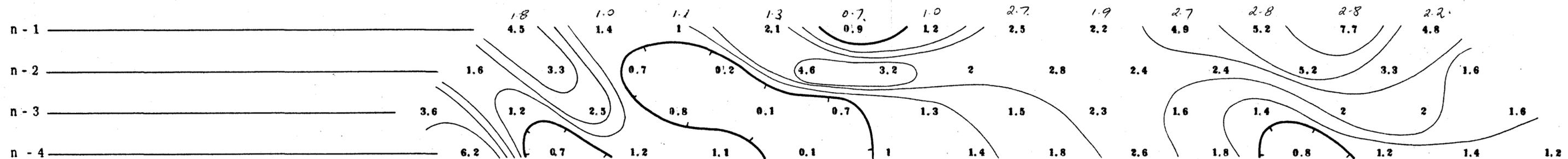
339027 NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY



18W 15W 12W 9W 6W 3W 0 3E 6E 9E 12E 15E 18E 21E 24E 27E 30E 33E 36E 39E



### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

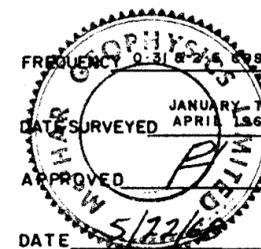
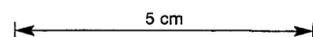
MOUNT TYNDALL AREA, TASMANIA

WEST GRID

Scale - One inch = 300 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES  
 DEFINITE   
 PROBABLE   
 POSSIBLE

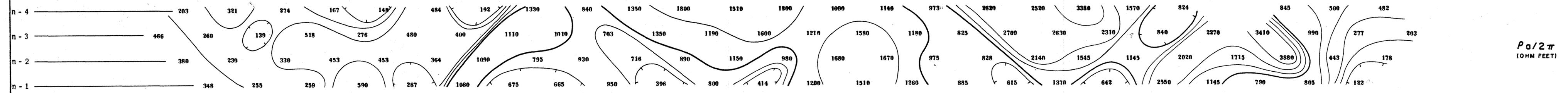
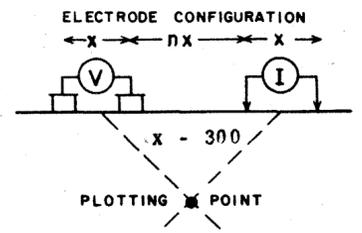


339028

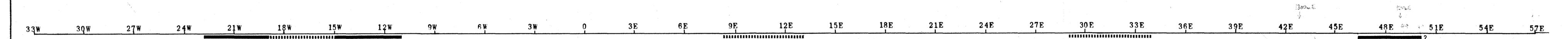
NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY



$\rho_a / 2\pi$   
(OHM FEET)



(M.F.) a

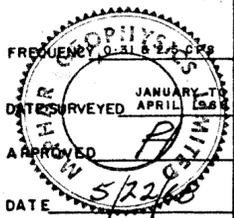
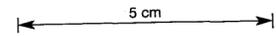
### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA

Scale—One inch= 300 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES  
DEFINITE   
PROBABLE   
POSSIBLE



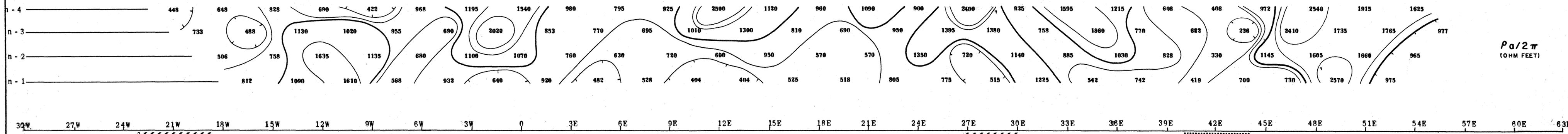
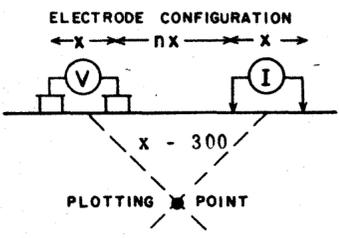
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# McPHAR GEOPHYSICS LIMITED

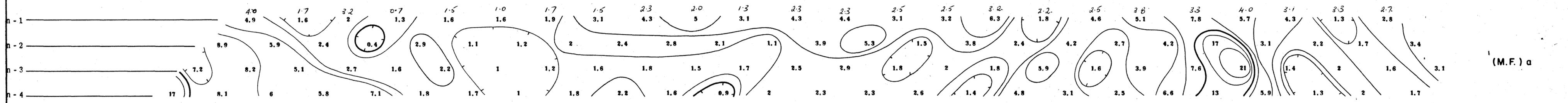
INDUCED POLARIZATION AND RESISTIVITY SURVEY

339029

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100



$\rho_a / 2\pi$   
(OHM FEET)



(M.F.) a

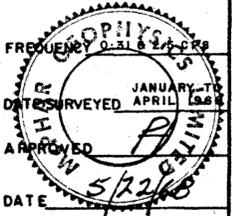
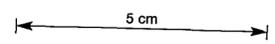
## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
WEST GRID

Scale—One inch= 300 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES  
DEFINITE   
PROBABLE   
POSSIBLE

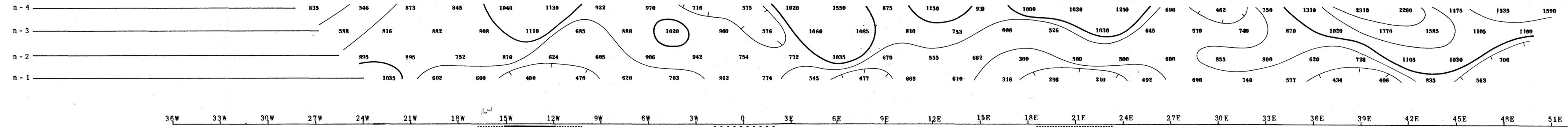
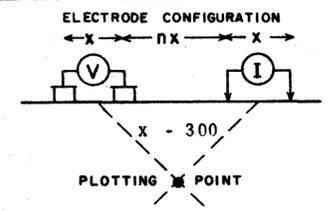


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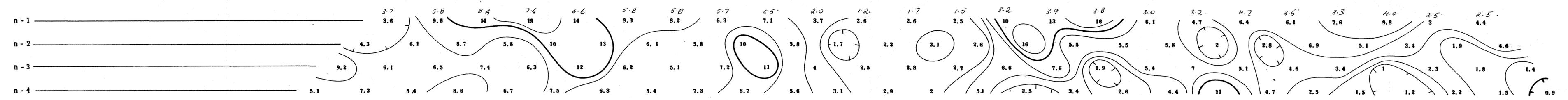
339030 NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

# McPHAR GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



$\rho_a / 2\pi$   
(OHM FEET)



(M.F.)  $\alpha$

## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
WEST GRID

Scale - One inch = 300 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



FREQUENCY 0.518 Hz

JANUARY TO APRIL 1988

DATE SURVEYED

APPROVED

DATE

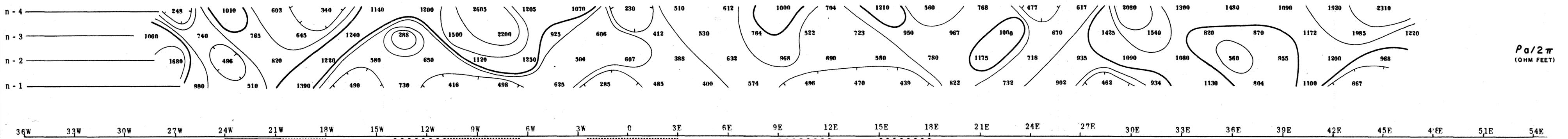
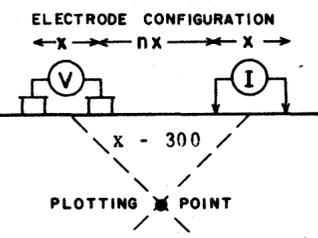
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339031

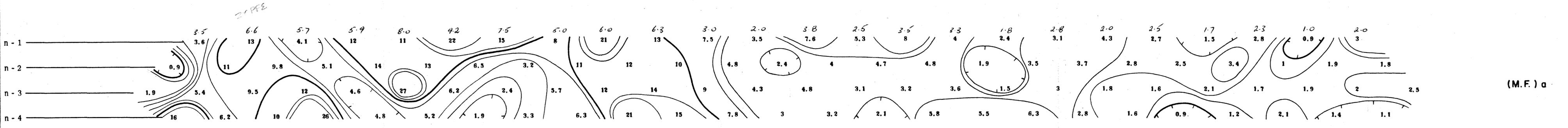
NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

# McPHAR GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



$\rho_a / 2\pi$   
(OHM FEET)



(M.F.) a

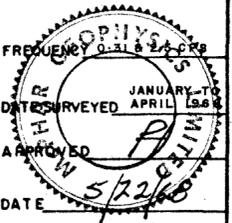
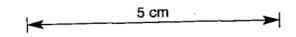
## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
WEST GRID

Scale - One inch = 300 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES  
DEFINITE   
PROBABLE   
POSSIBLE

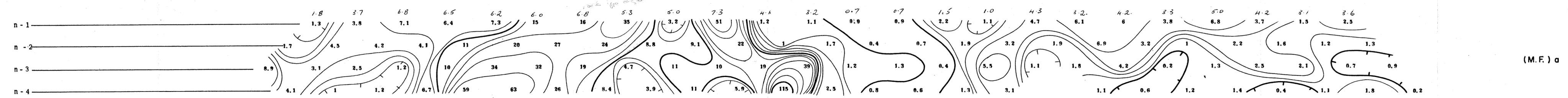
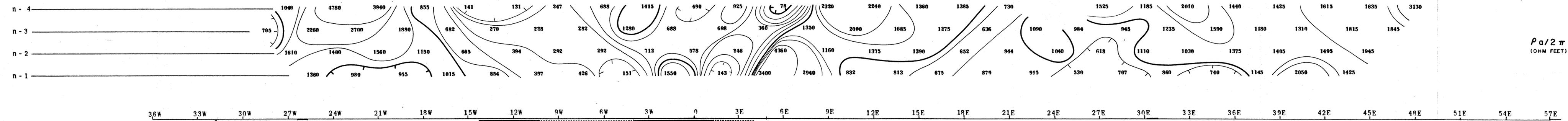
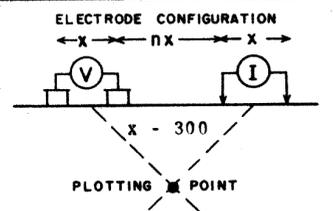


LINE NO. 18

339032 NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

### McPHAR GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

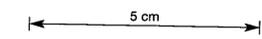


## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
WEST GRID

Scale - One inch = 300 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL



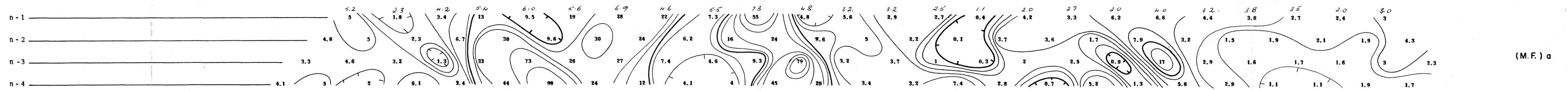
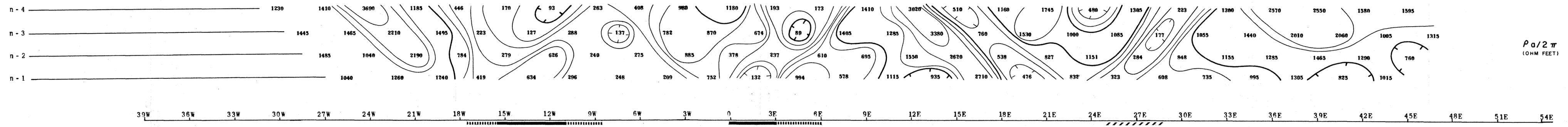
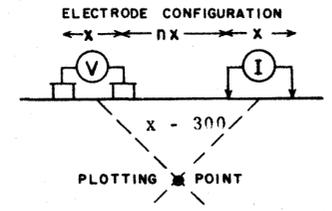
SURFACE PROJECTION OF ANOMALOUS ZONES  
DEFINITE   
PROBABLE   
POSSIBLE

LINE NO. - 20

339033 NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

### McPHAR GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

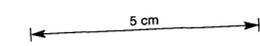
MOUNT TYNDALL AREA, TASMANIA

Scale - One inch = 300 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE



McPHAR GEOPHYSICS

FREQUENCY 0.51 & 6.32

DATE SURVEYED JANUARY TO APRIL 1988

APPROVED

DATE 5/22/88

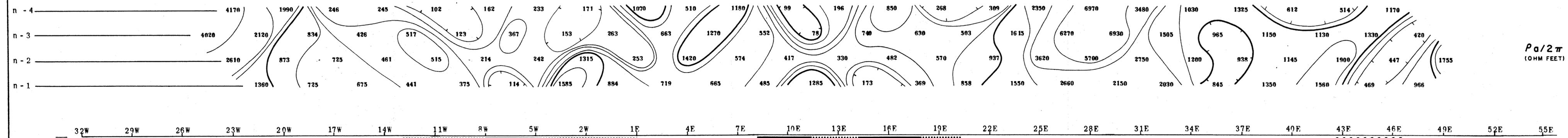
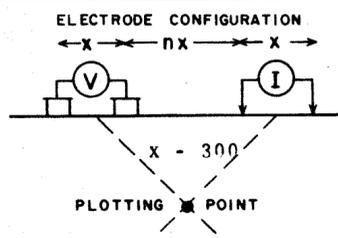
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339034

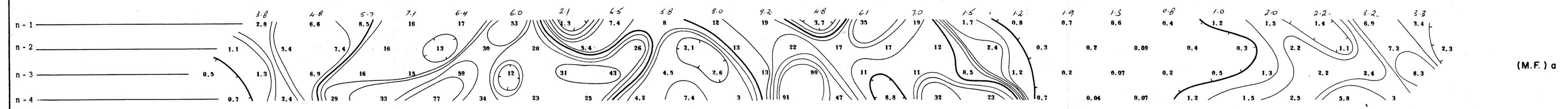
NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY



$\rho_a / 2\pi$   
(OHM FEET)



(M.F.) a

### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

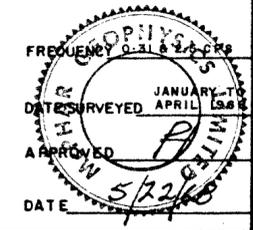
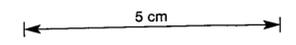
MOUNT TYNDALL AREA, TASMANIA

WEST GRID

Scale—One inch = 300 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES  
DEFINITE   
PROBABLE   
POSSIBLE

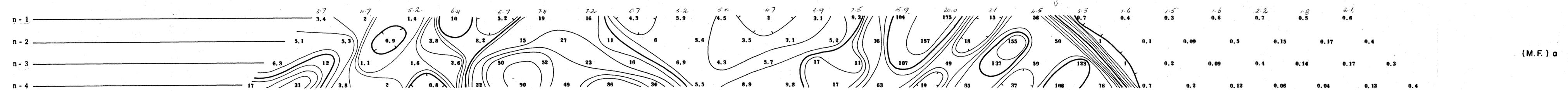
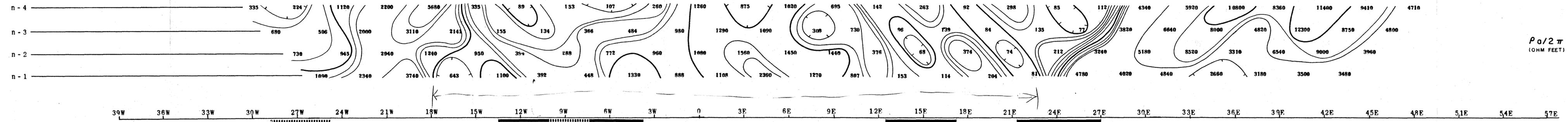
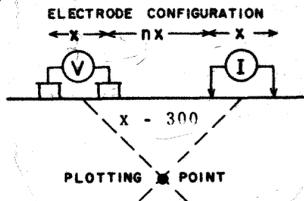


LINE NO. 1-24

339035 NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

### McPHAR GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
WEST GRID

Scale—One inch= 300 Feet

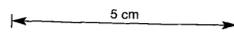
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



McPHAR GEOPHYSICS

FREQUENCY 0.31 & 2.5 C.P.S.

JANUARY TO APRIL 1986

DATE SURVEYED

APPROVED

DATE

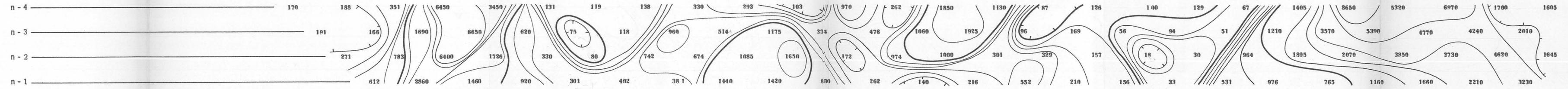
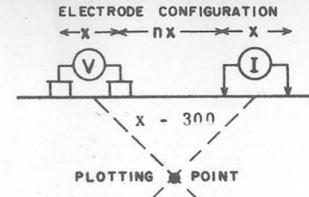
LINE NO.- 28

# McPHAR GEOPHYSICS LIMITED

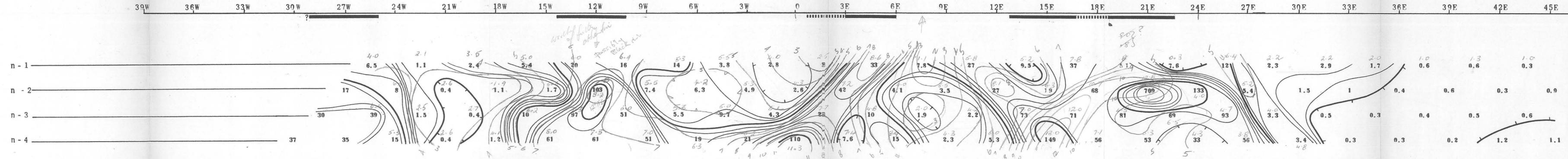
INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339036



$\rho_a / 2\pi$   
(OHM FEET)



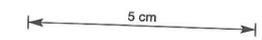
(M.F.) a

## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
WEST GRID

Scale—One inch= 300 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL



SURFACE PROJECTION OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE

McPHAR GEOPHYSICS LIMITED  
FREQUENCY 0.31 & 2.5 CPS  
DATE SURVEYED JANUARY TO APRIL 1968  
APPROVED   
DATE 5/22/68

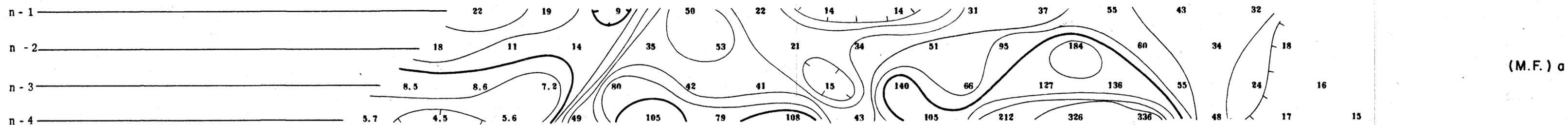
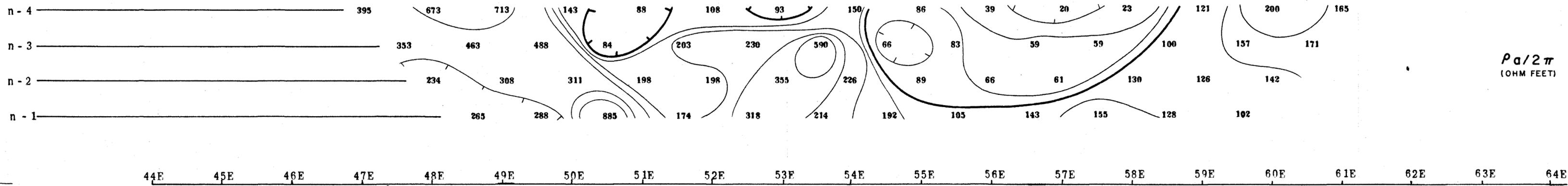
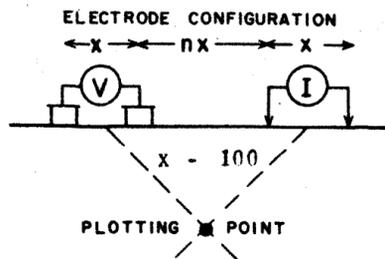
LINE NO. 1-26

339037

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
EAST GRID

Scale - One inch = 100 Feet

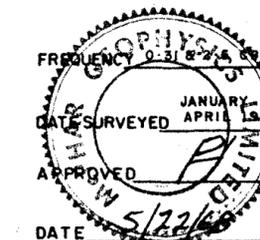
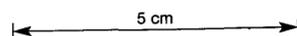
NOTE LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



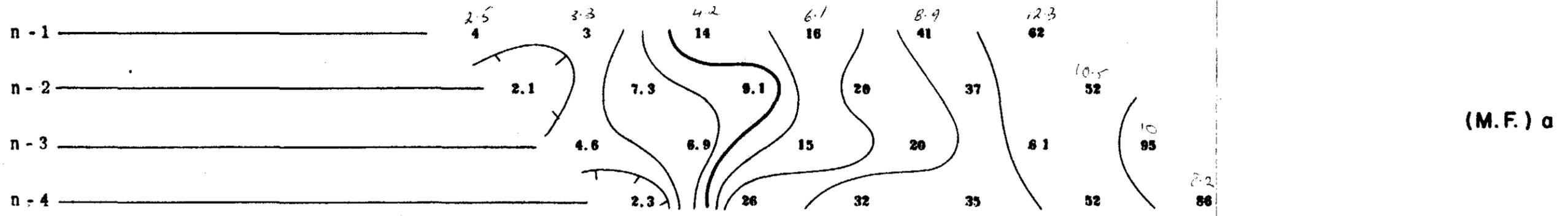
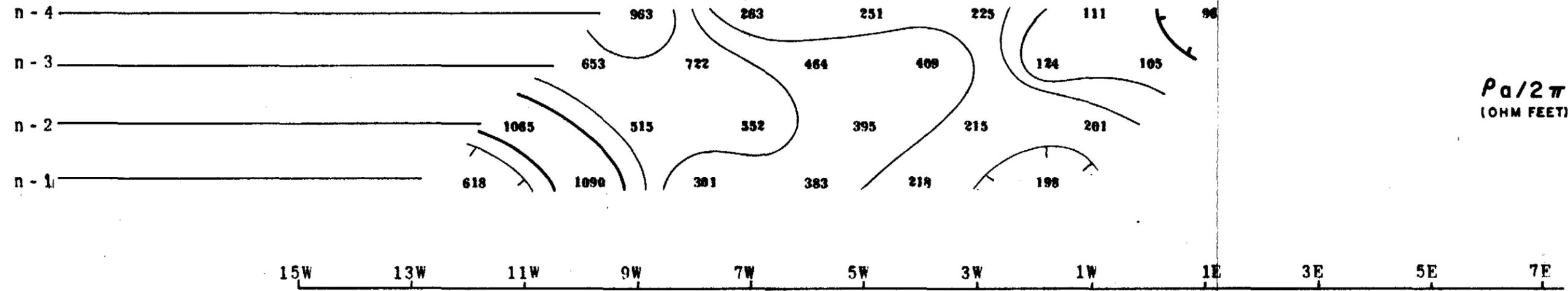
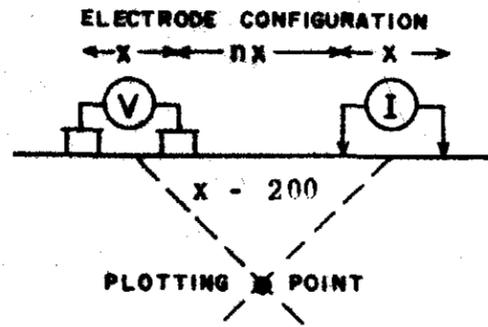
LINE NO.- 4

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339038



## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

### MOUNT TYNDALL AREA, TASMANIA

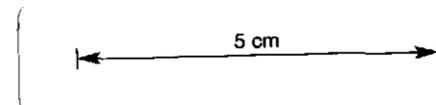
EAST GRID

Scale - One inch = 200 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE



FREQUENCY 0.1 & 2.5 C/S

DATE SURVEYED JANUARY TO APRIL 1963

APPROVED *[Signature]*

DATE 5/22/63

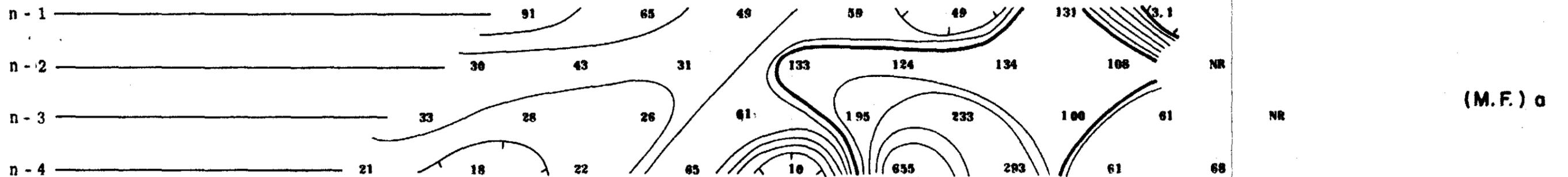
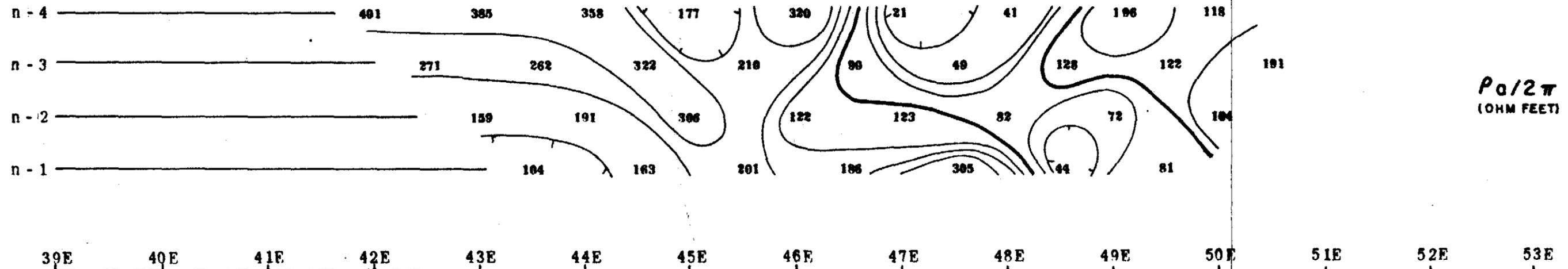
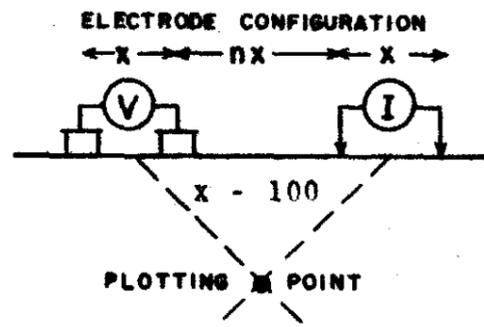
LINE NO.-6+400 S

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT  
LOGARITHMIC MULTIPLES  
OF 10-15-20-30-50-75-100

339039



### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale - One inch = 100 Feet

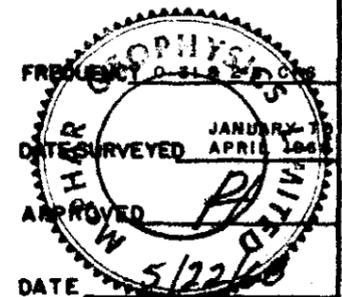
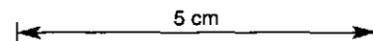
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION  
OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



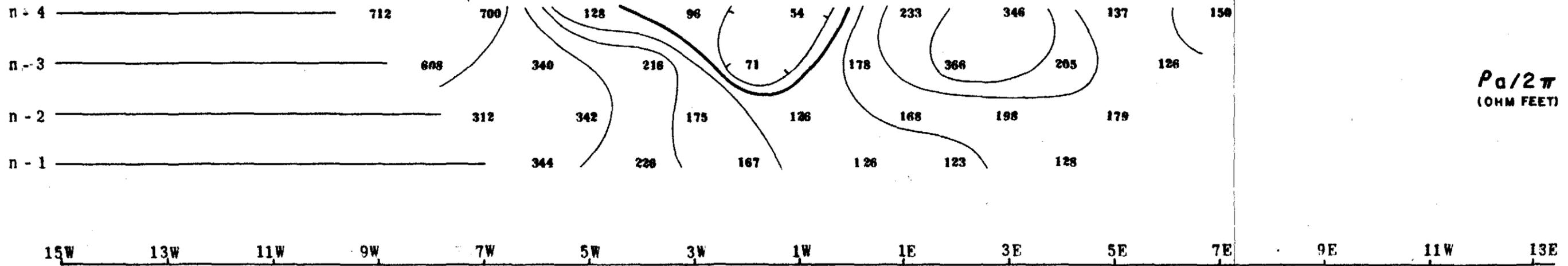
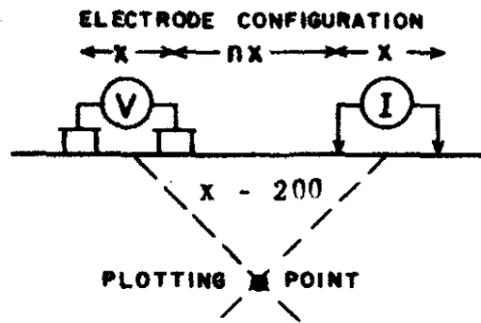
LINE NO.-6+200S

# McPHAR GEOPHYSICS LIMITED

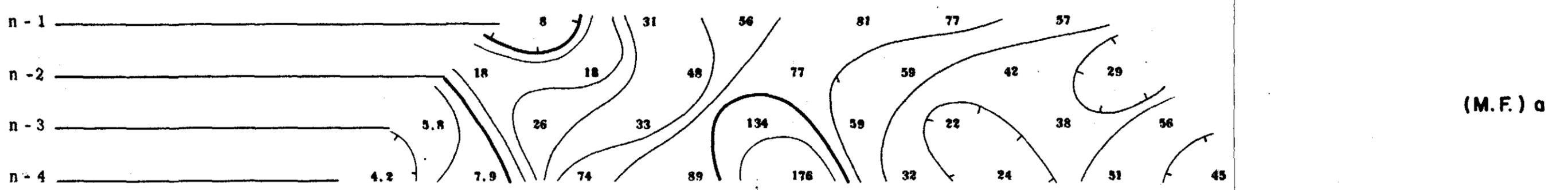
## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339040



$P_a/2\pi$   
(OHM FEET)



(M.F.) a

### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

#### MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale - One inch = 200 Feet

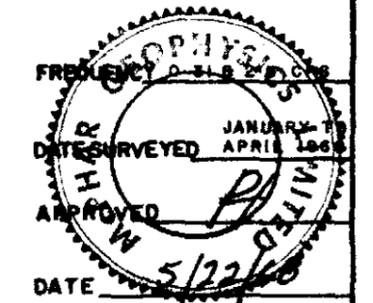
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



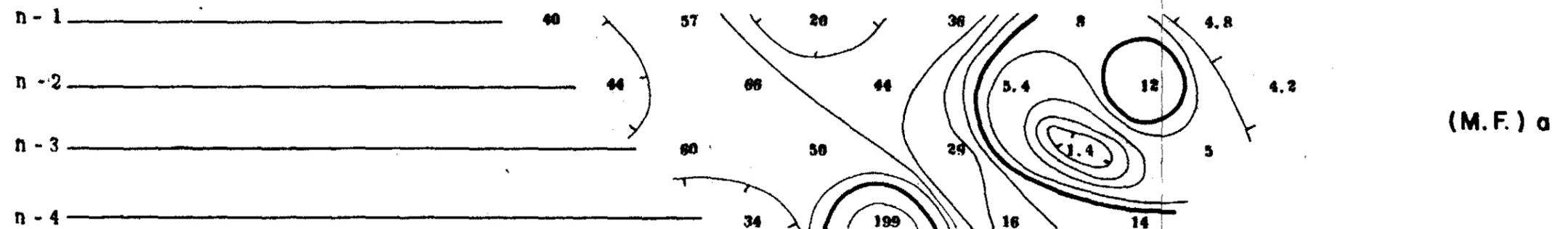
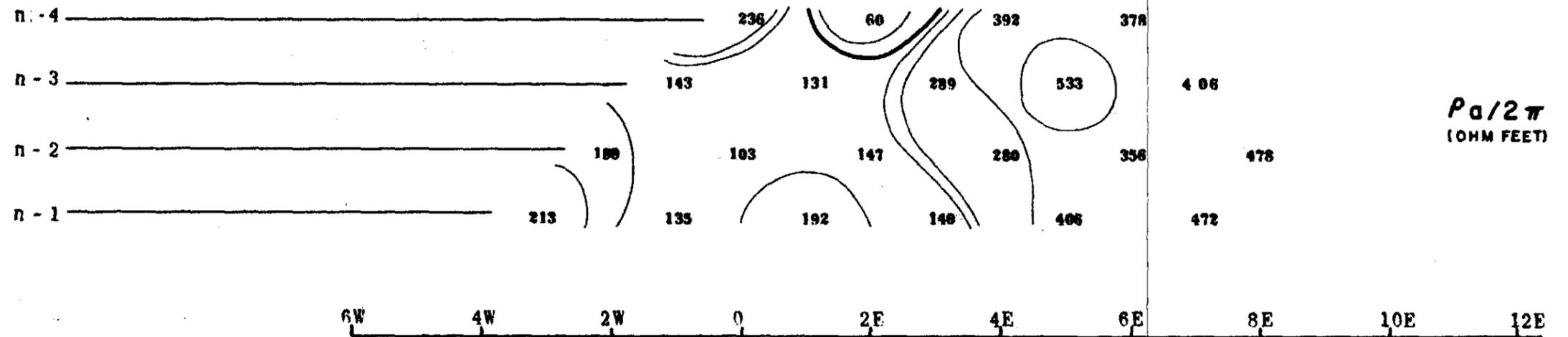
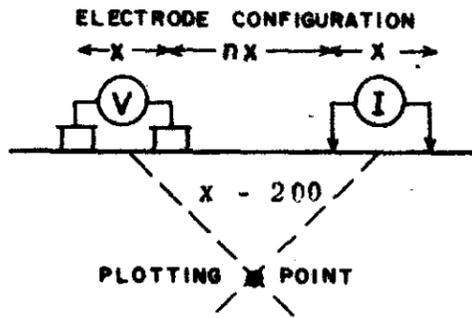
LINE NO. - 6

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339041



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA

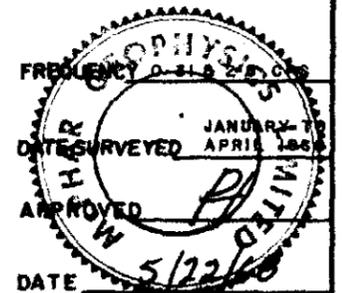
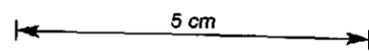
EAST GRID

Scale - One inch = 200 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE   
 PROBABLE   
 POSSIBLE



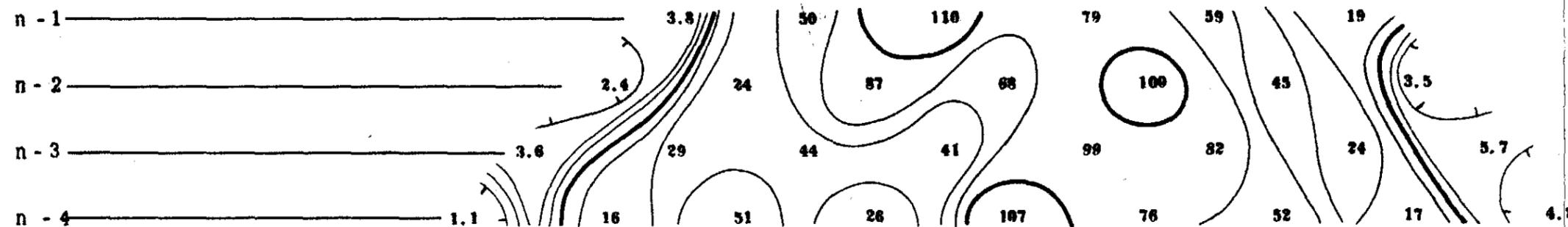
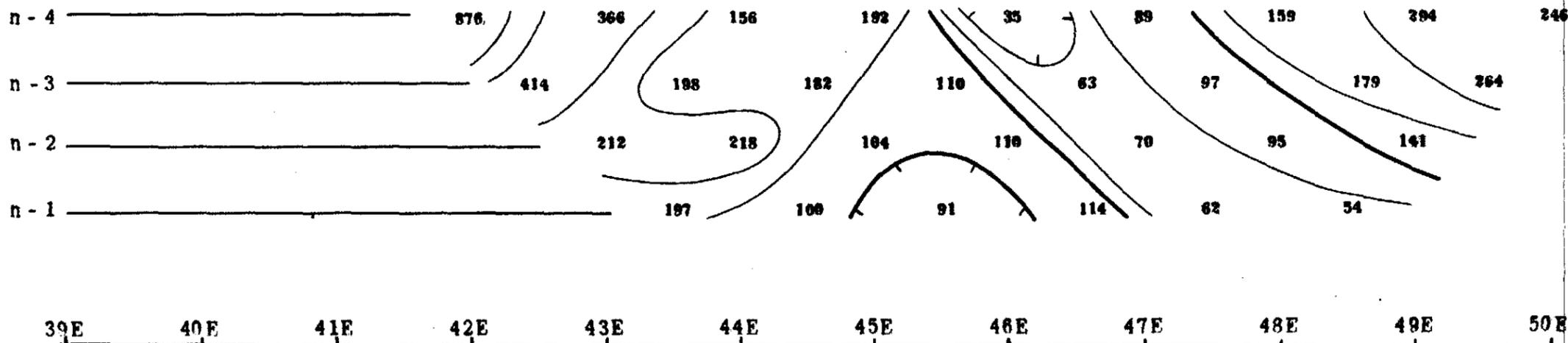
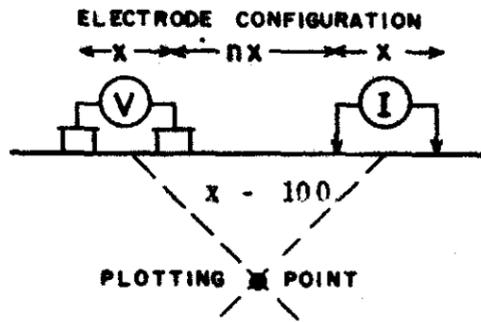
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# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339042



### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
EAST GRID

Scale - One inch = 100 Feet

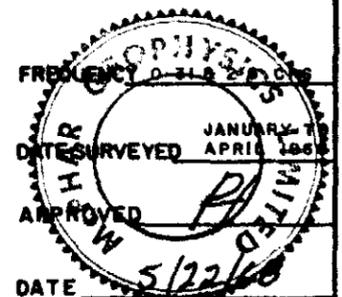
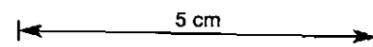
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



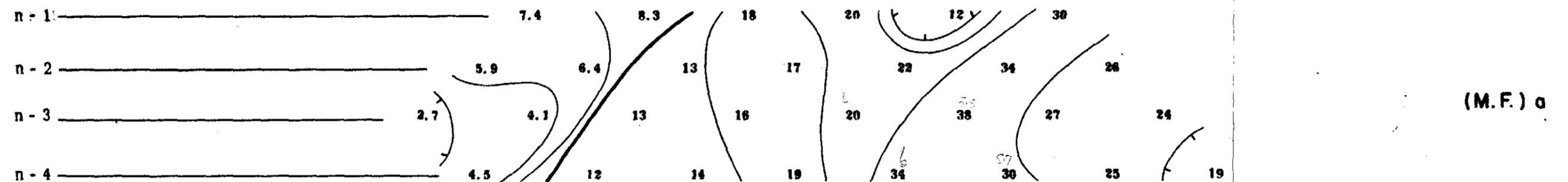
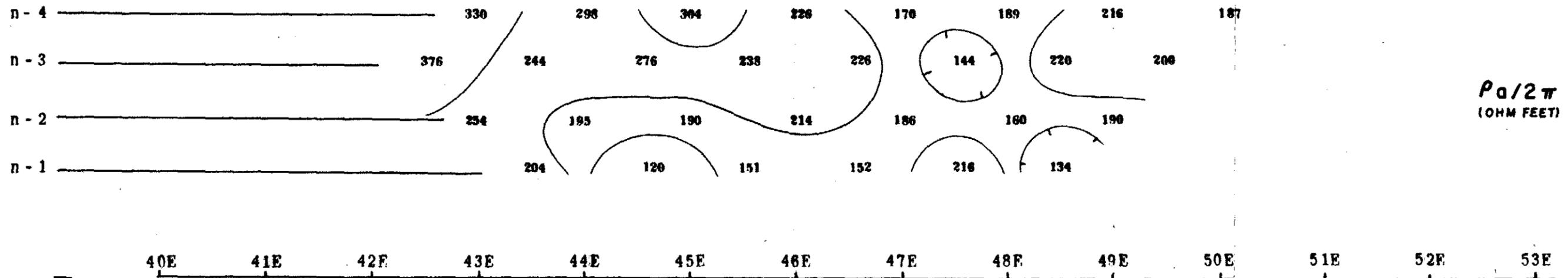
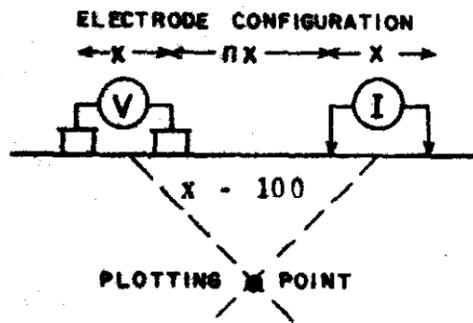
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# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339043



### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale - One inch = 100 Feet

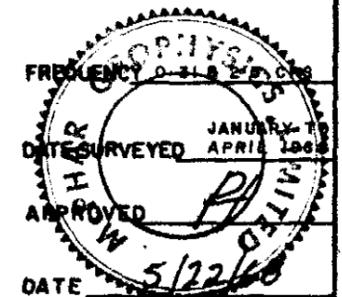
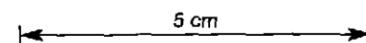
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



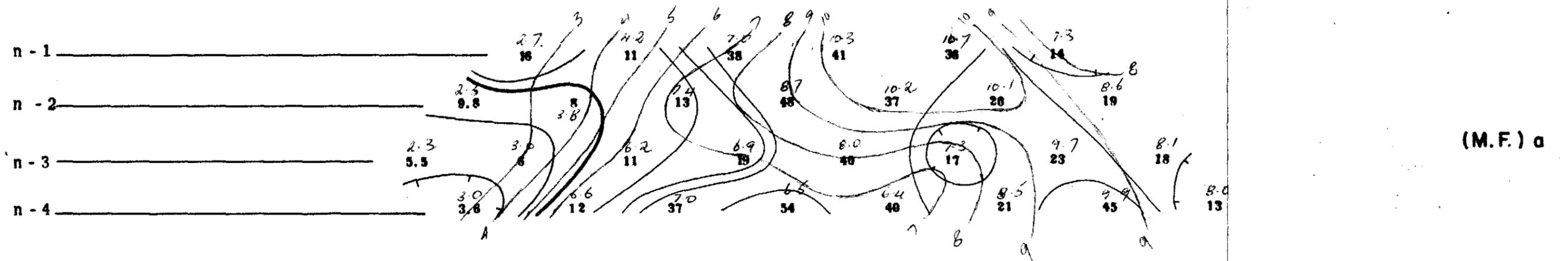
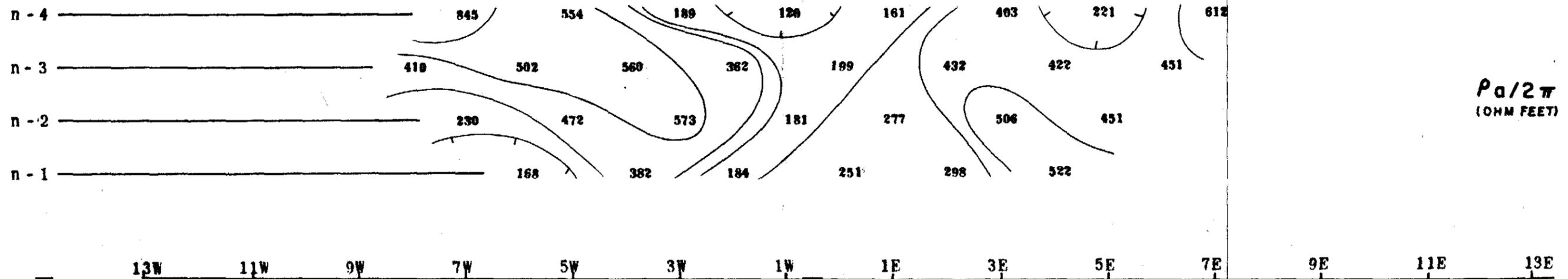
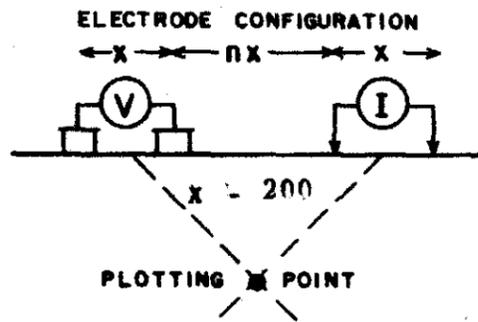
LINE NO.-6+200N

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339044



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale - One inch = 200 Feet

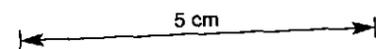
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



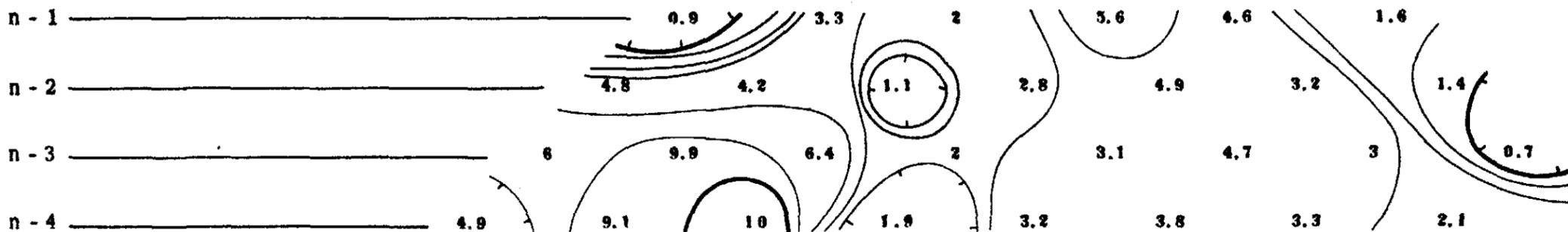
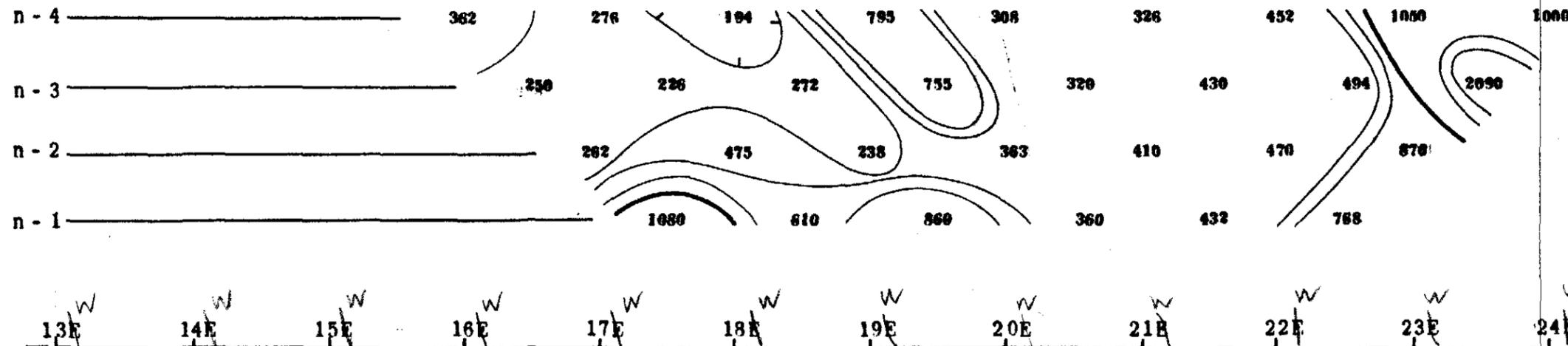
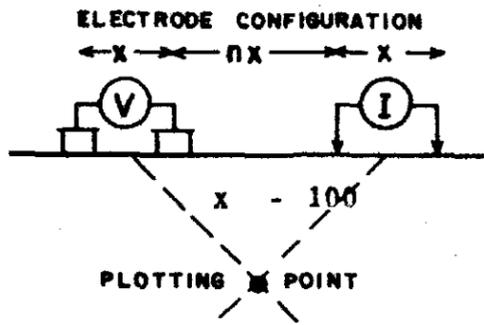
LINE NO. - 6 + 400 N

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339045



*This is west of the road, NOT EAST (M.F.)*  
*Read at Backward*

### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

#### MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale - One inch = 100 Feet

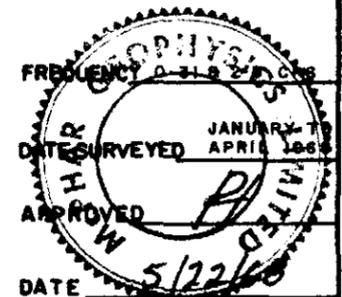
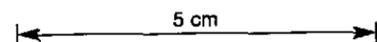
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

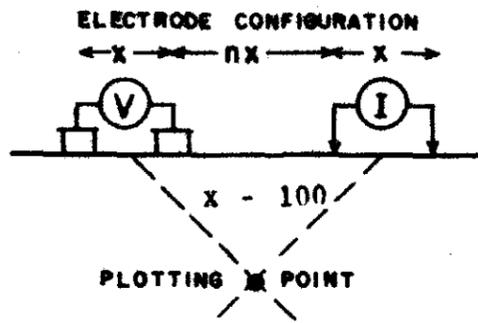


LINE NO.-8

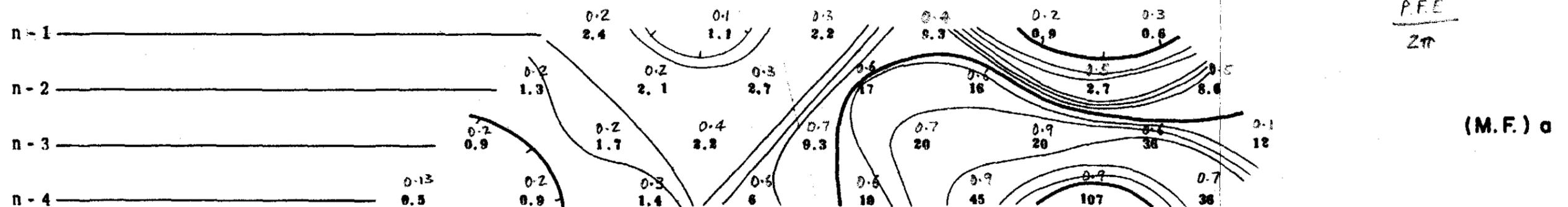
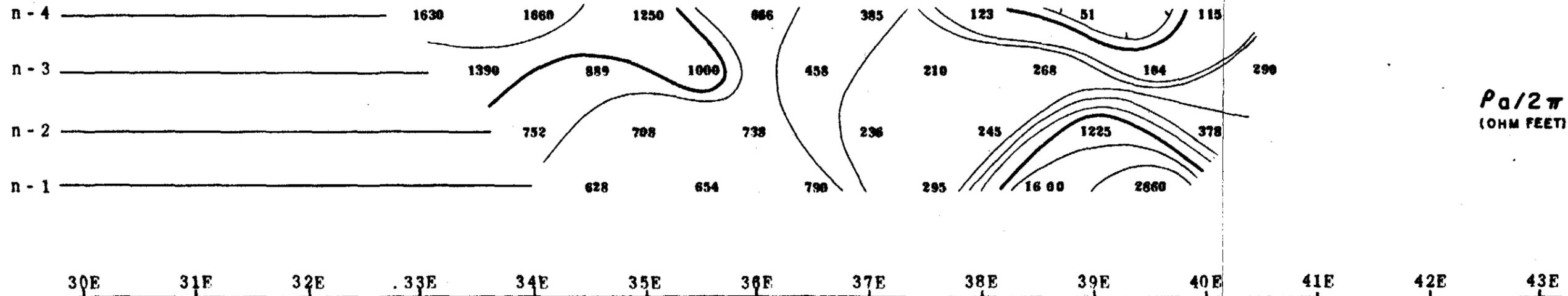
# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100



339046



## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
EAST GRID

Scale - One inch = 100 Feet

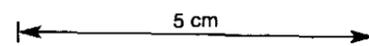
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



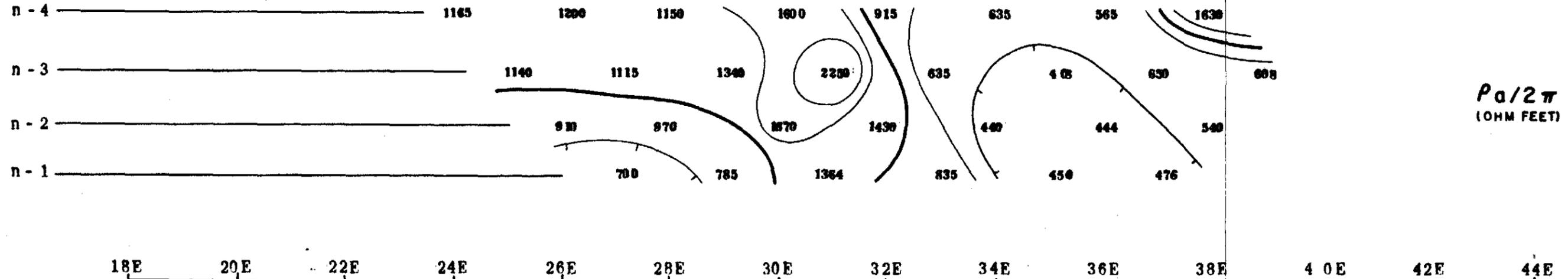
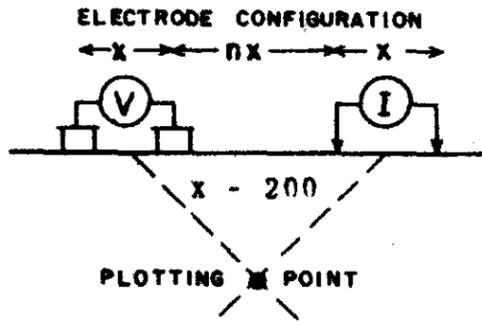
LINE NO. - 10 + 200 S

# McPHAR GEOPHYSICS LIMITED

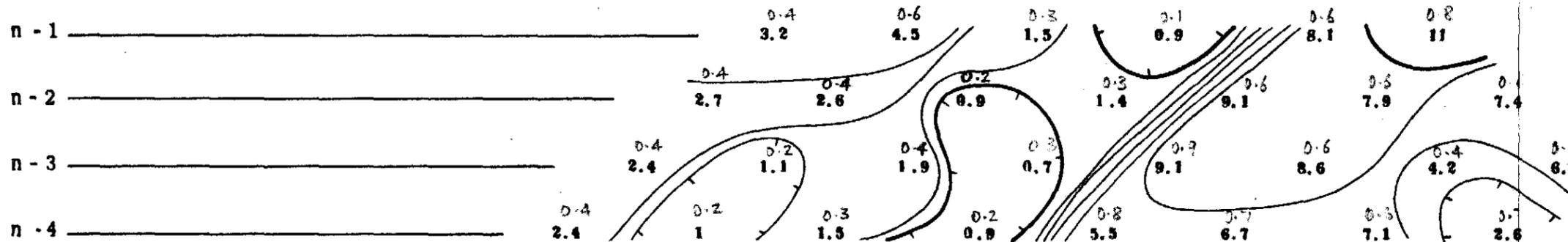
## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339047



$P_a/2\pi$   
(OHM FEET)



$PFE$   
 $2\pi$

(M.F.) a

### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale - One inch = 200 Feet

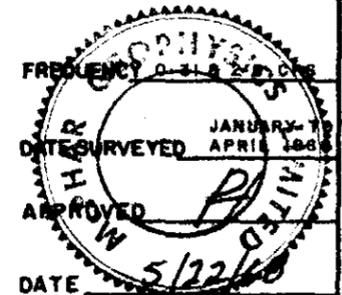
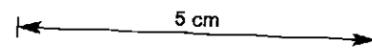
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

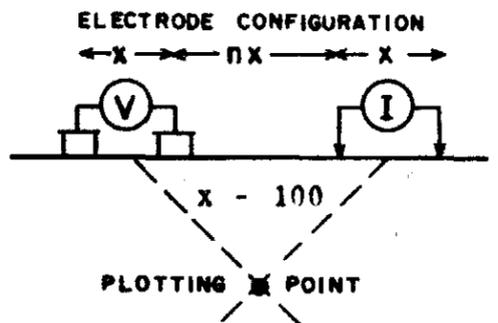


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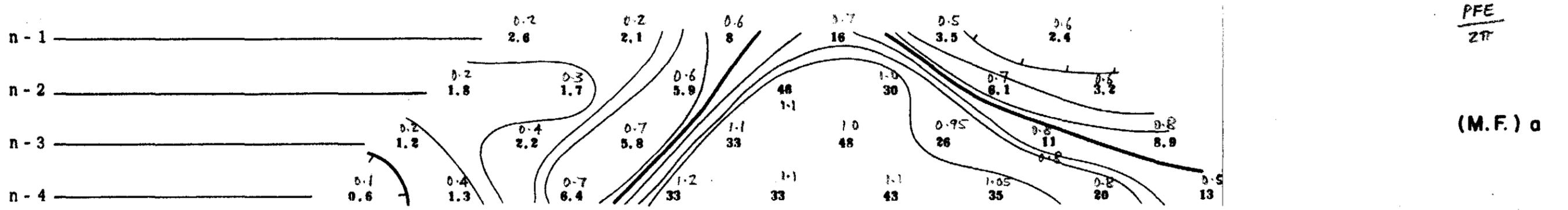
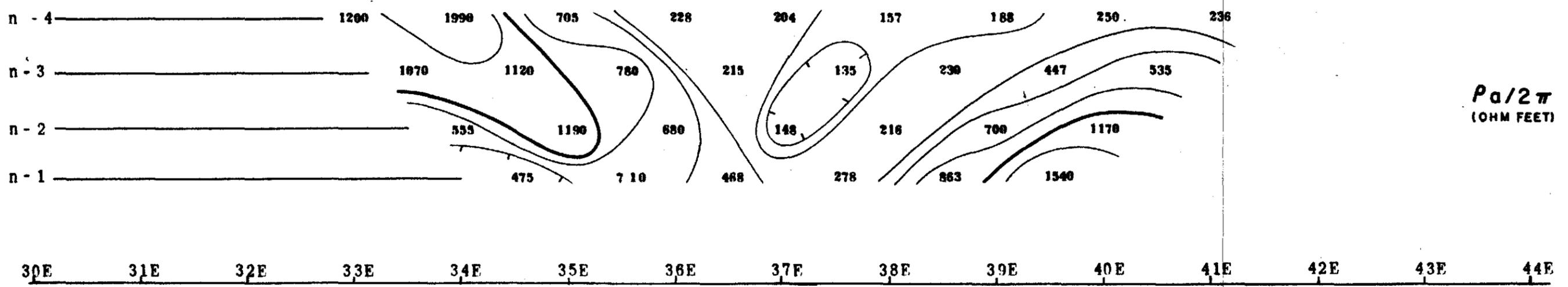
# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100



339048



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA

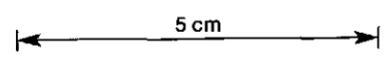
EAST GRID

Scale - One inch = 100 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE



McPHAR GEOPHYSICS LIMITED  
 FREQUENCY 0-31.5 cycles  
 JANUARY 1968  
 DATE SURVEYED APRIL 1968  
 APPROVED  
 DATE 5/22/68

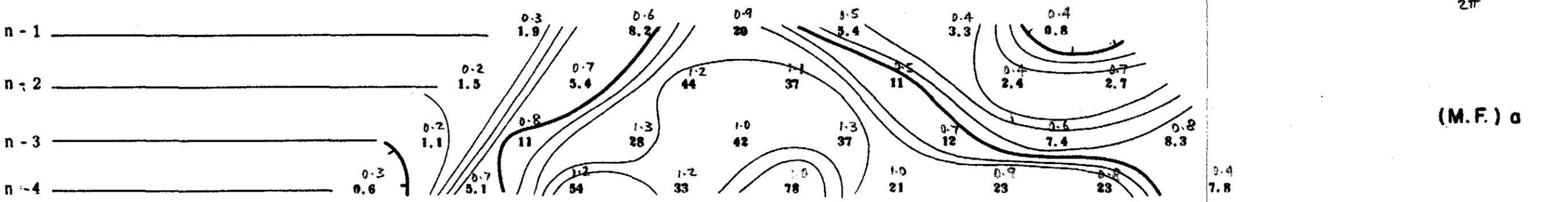
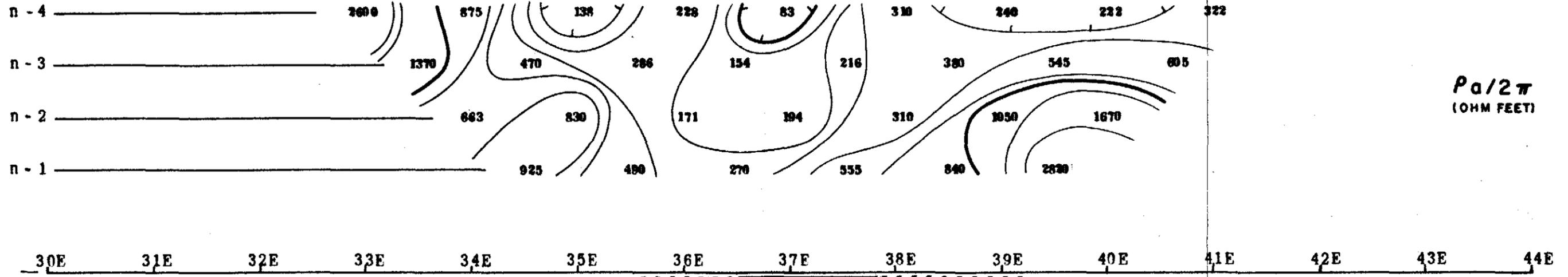
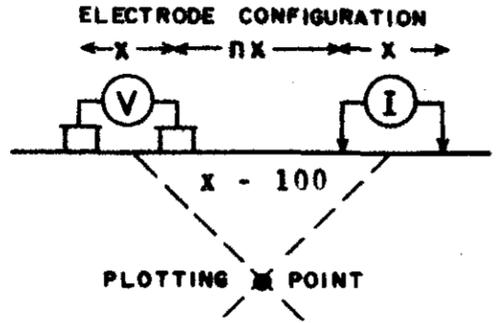
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# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339049



$P_a/2\pi$   
(OHM FEET)

$PFE/2\pi$

(M.F.) a

### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

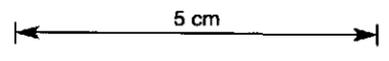
#### MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale - One inch = 100 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES  
DEFINITE   
PROBABLE   
POSSIBLE



FREQUENCY 0-31.8 2.5 C/S  
DATE SURVEYED JANUARY TO APRIL 1968  
APPROVED   
DATE 5/22/68

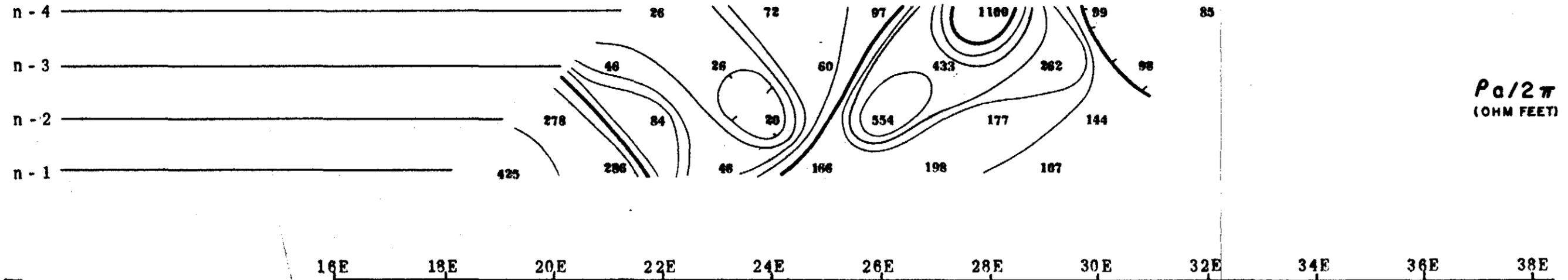
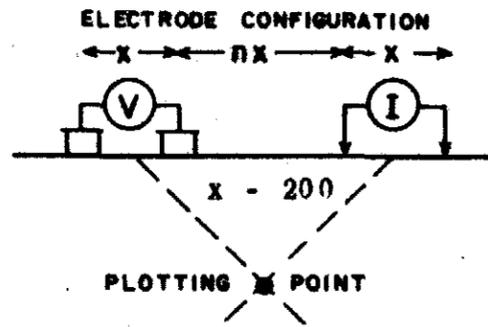
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# McPHAR GEOPHYSICS LIMITED

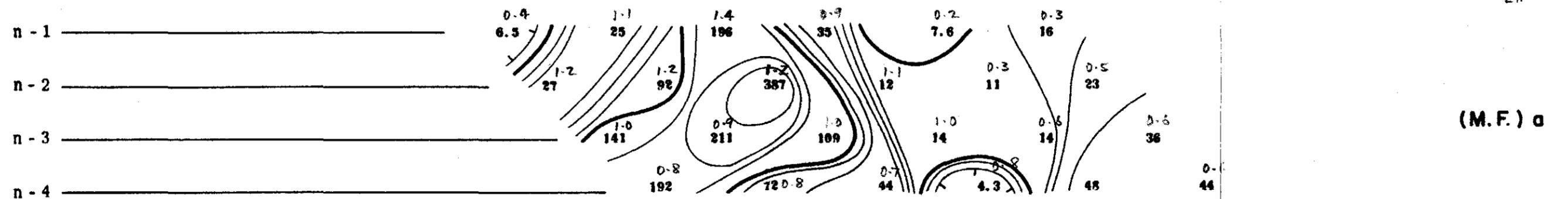
## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339050



$P_a/2\pi$   
(OHM FEET)



$PFE/2\pi$

(M.F.) a

### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

#### MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale - One inch = 200 Feet

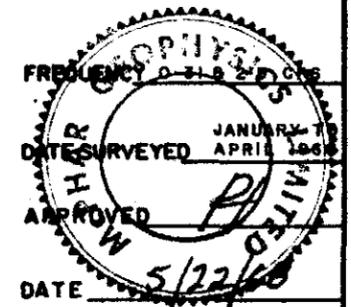
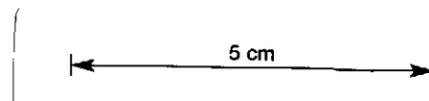
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



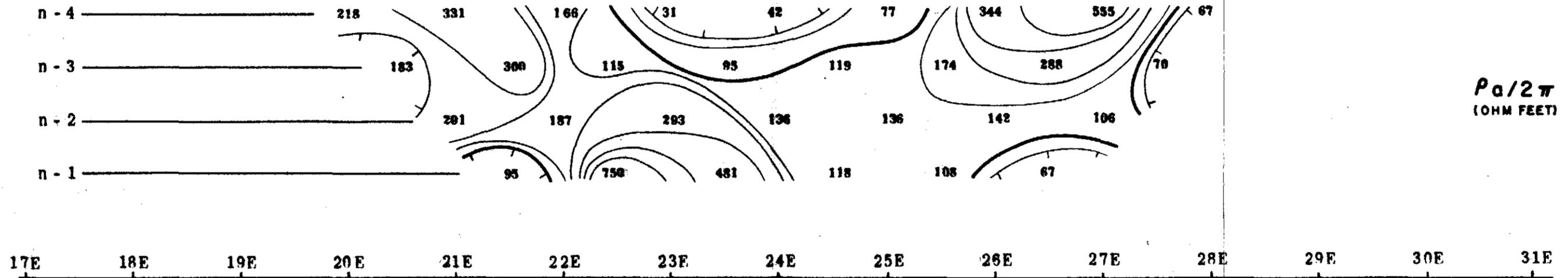
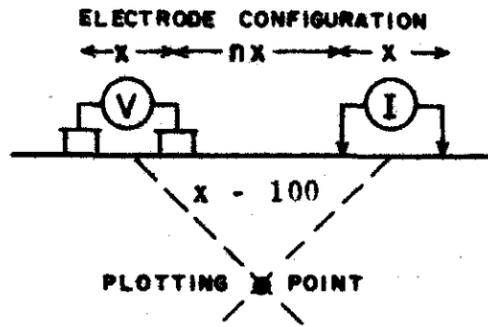
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# McPHAR GEOPHYSICS LIMITED

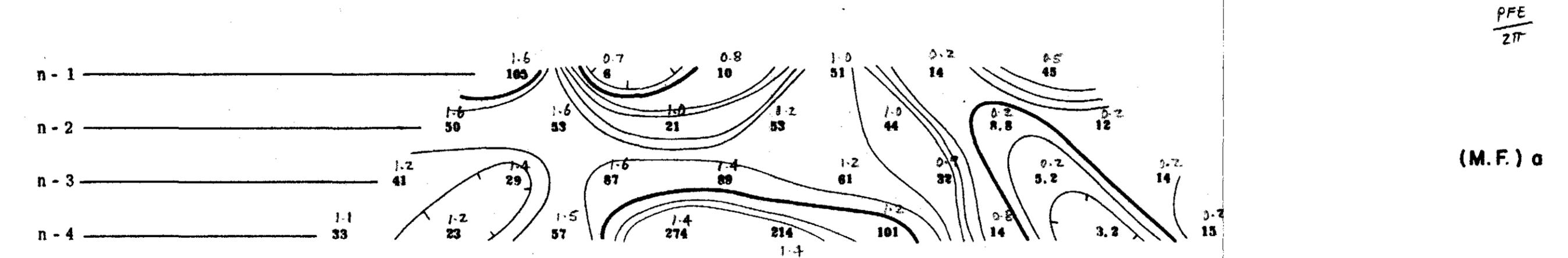
## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339051



$P_a/2\pi$   
(OHM FEET)



$\frac{PFE}{2\pi}$

(M.F.) α

### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

### MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale - One inch = 100 Feet

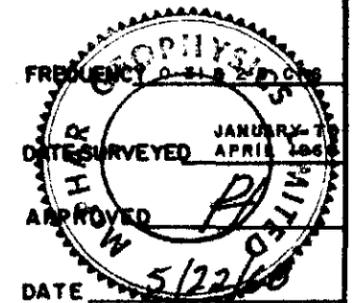
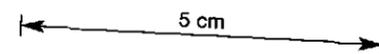
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



LINE NO. - 12 + 200S

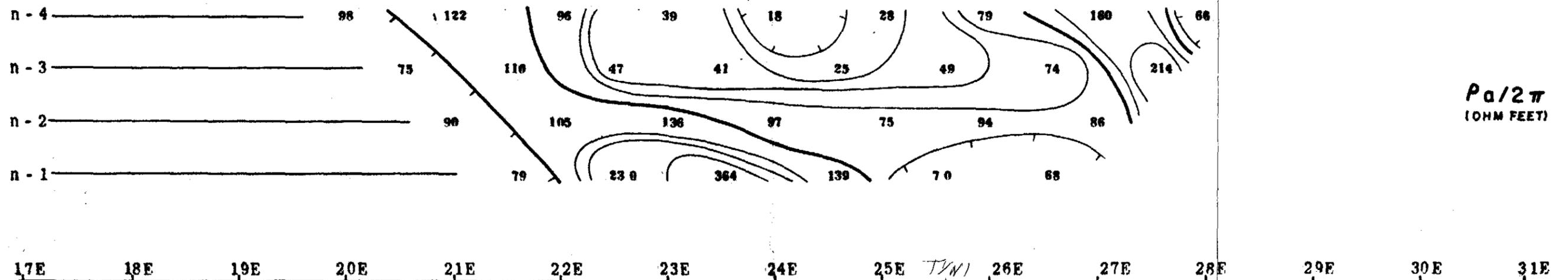
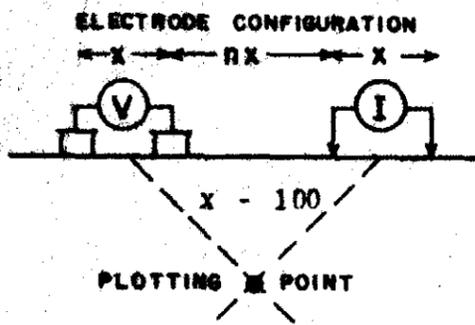
050

# McPHAR GEOPHYSICS LIMITED

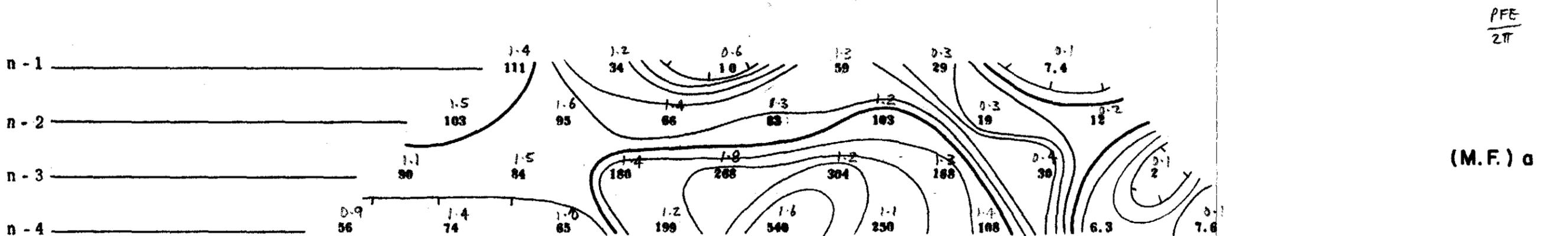
## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339052



$P_a/2\pi$   
(OHM FEET)



$\frac{PFE}{2\pi}$

(M.F.) a

## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

### MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale - One inch = 100 Feet

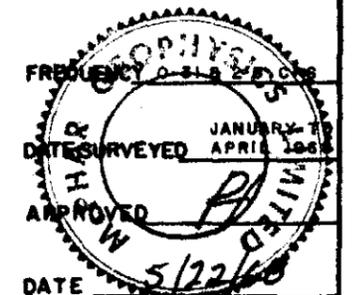
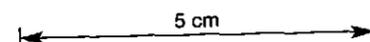
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



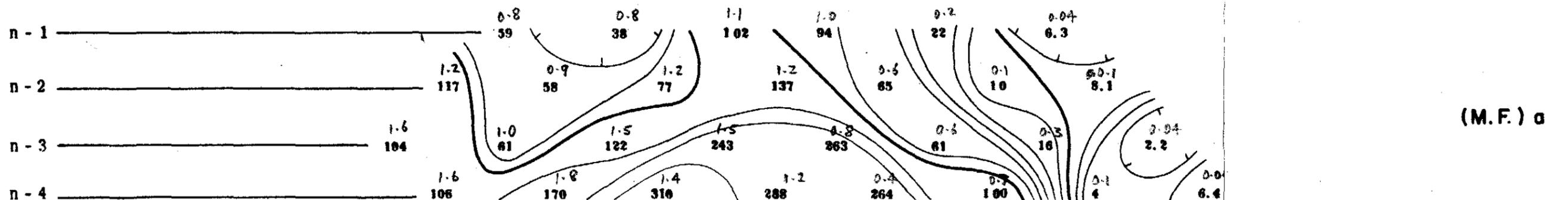
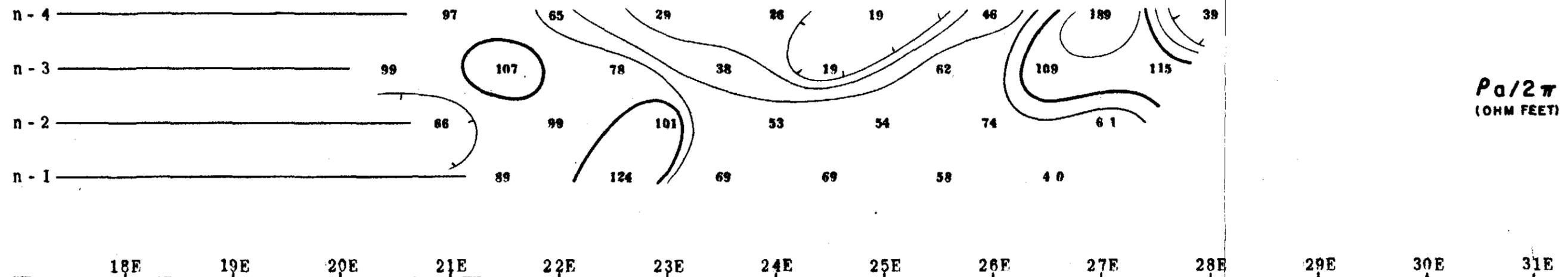
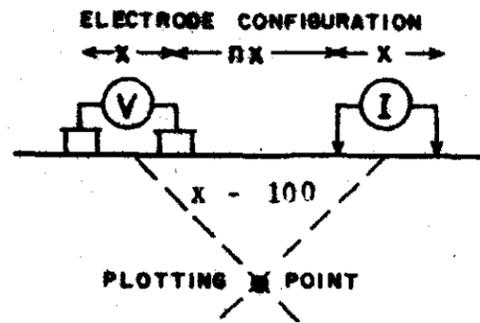
LINE NO.- 12

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339053



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale - One inch = 100 Feet

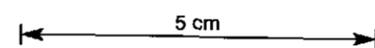
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



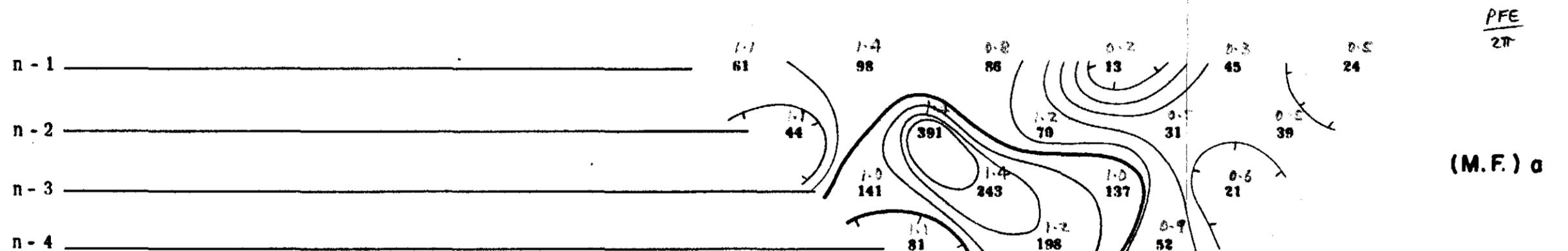
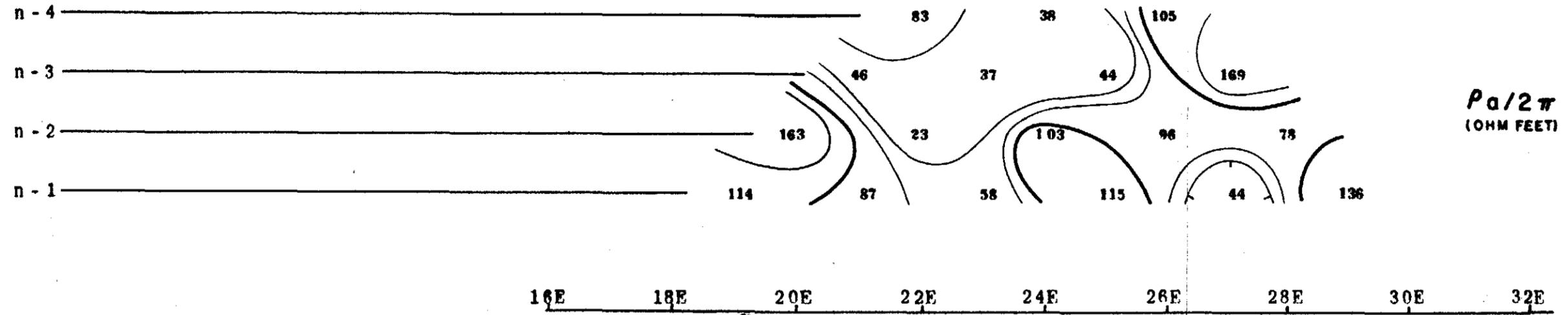
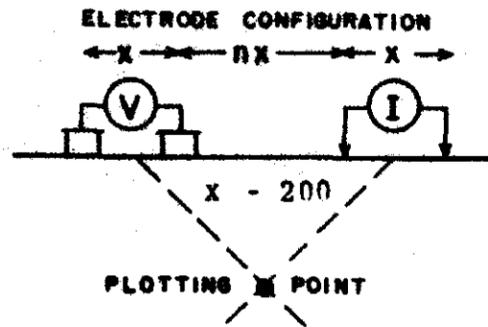
LINE NO. - 12 + 200 N

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339054



### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
 EAST GRID

Scale - One inch = 200 Feet

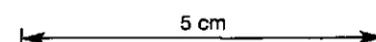
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SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



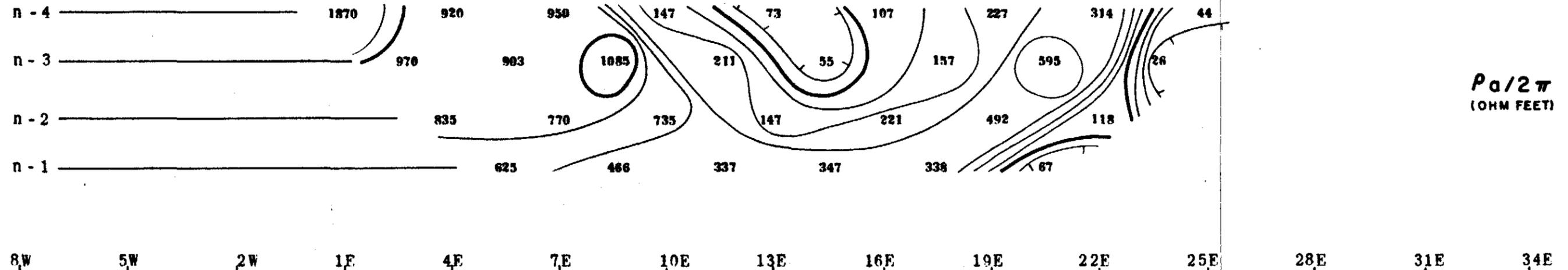
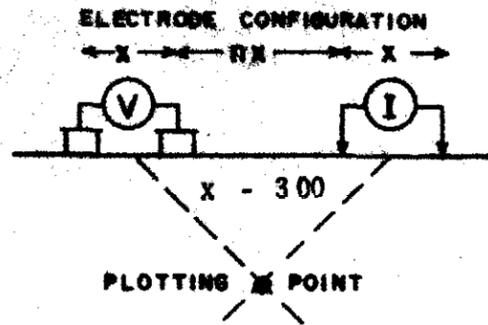
LINE NO. 12 + 300 N

# McPHAR GEOPHYSICS LIMITED

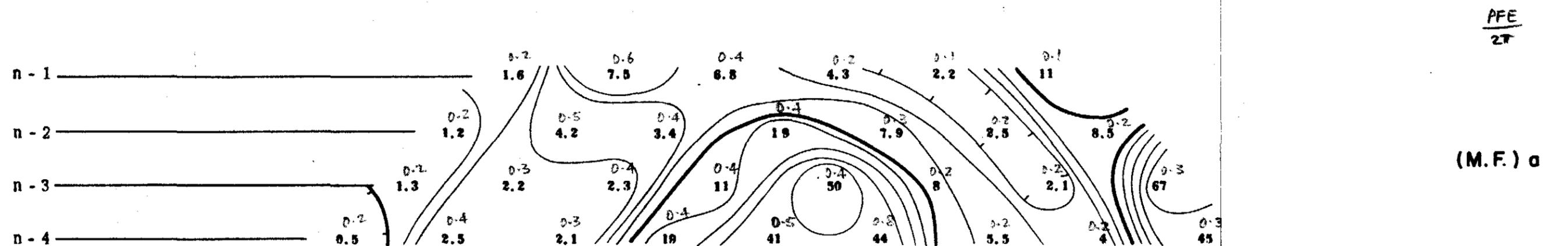
## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339055



$P_a/2\pi$   
(OHM FEET)



$PFE/2\pi$

(M.F.) a

### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

#### MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale - One inch = 300 Feet

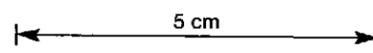
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



FREQUENCY 2500 CYCLES

DATE SURVEYED JANUARY TO APRIL 1968

APPROVED *[Signature]*

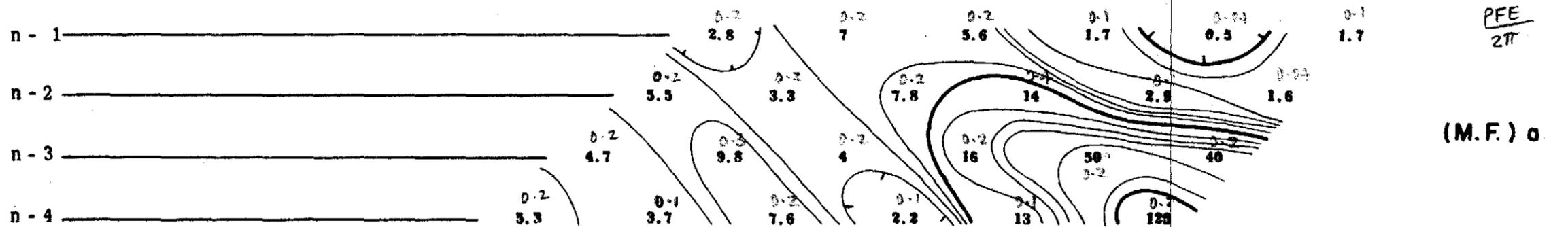
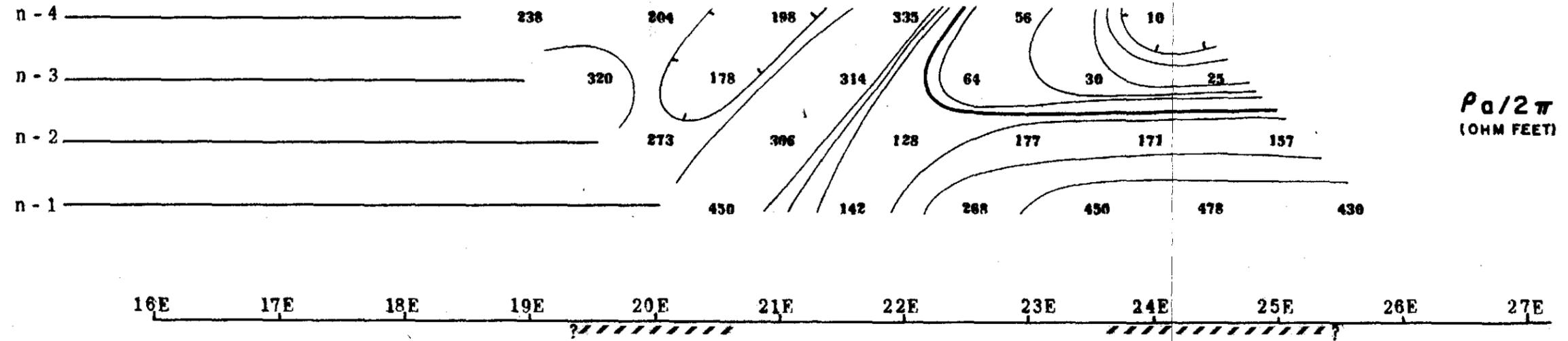
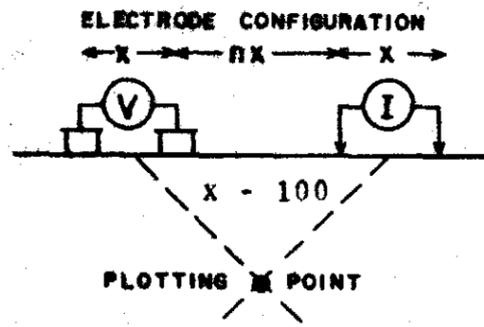
DATE 5/22/68

LINE NO. - 14 + 300 S

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT  
LOGARITHMIC MULTIPLES  
OF 10-15-20-30-50-75-100  
**339056**



### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
EAST GRID

Scale - One inch = 100 Feet

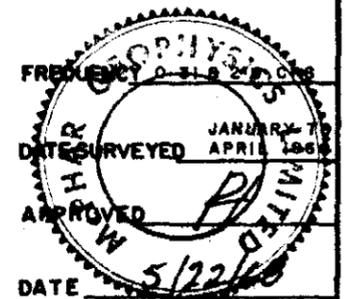
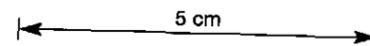
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION  
OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



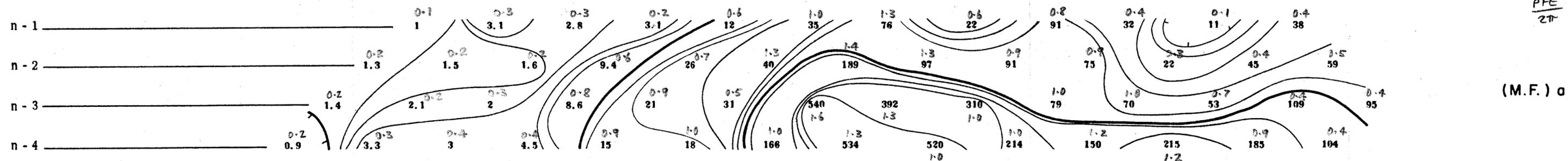
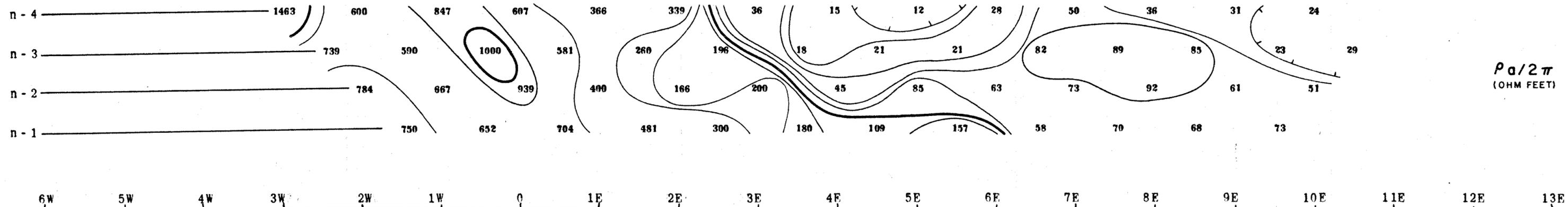
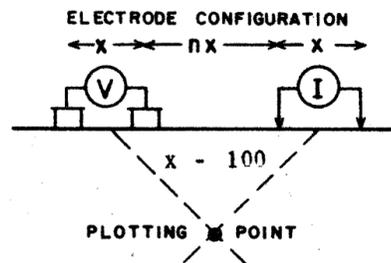
LINE NO. 16+200S

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339057



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA

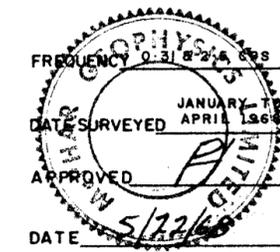
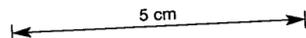
EAST GRID

Scale - One inch = 100 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE   
 PROBABLE   
 POSSIBLE



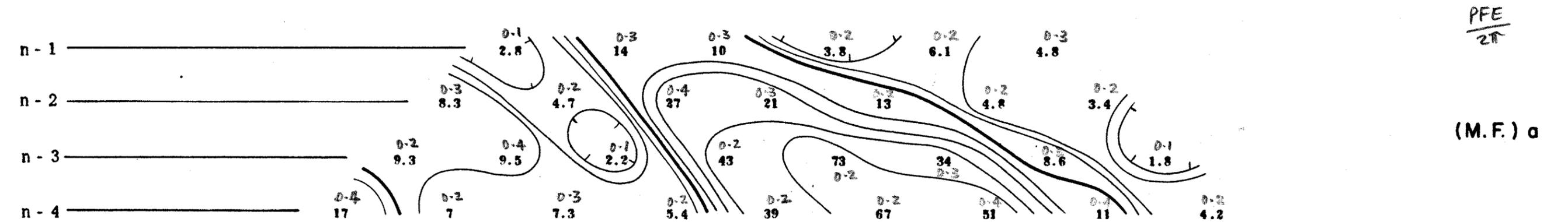
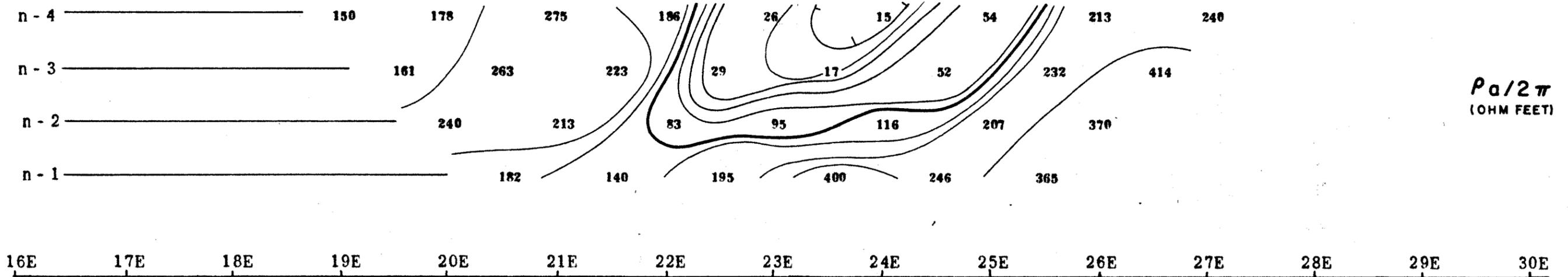
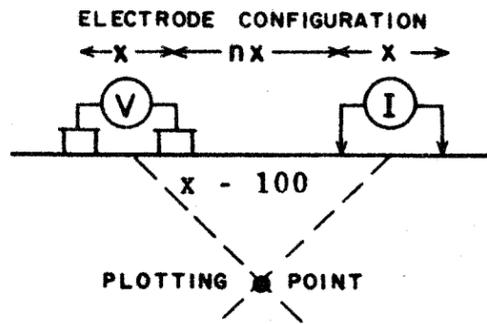
LINE NO. 16+200 S

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339058



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA

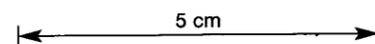
EAST GRID

Scale - One inch = 100 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE   
 PROBABLE   
 POSSIBLE



FREQUENCY 0.318 245 C/S  
 DATE SURVEYED JANUARY TO APRIL 1968  
 APPROVED   
 DATE 5/22/68

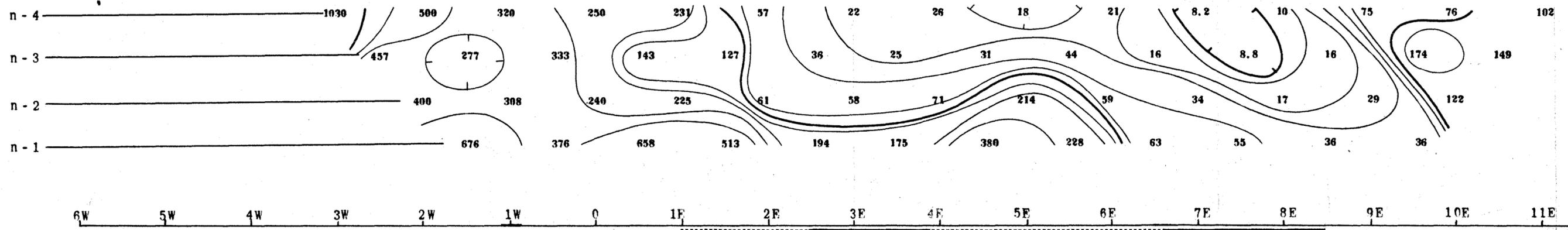
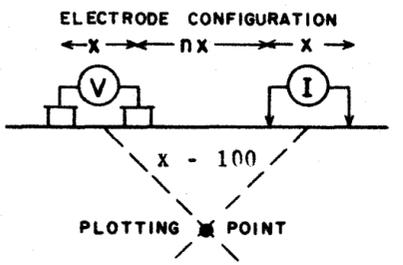
LINE NO.- 16+100S

# McPHAR GEOPHYSICS LIMITED

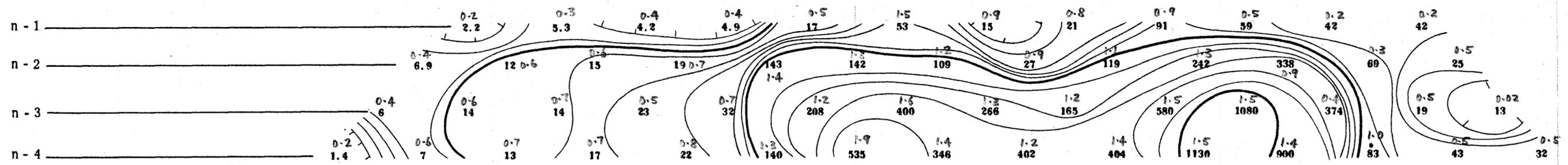
INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339059



$\rho_a / 2\pi$   
(OHM FEET)



$\frac{PFE}{2\pi}$

(M.F.) a

## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA

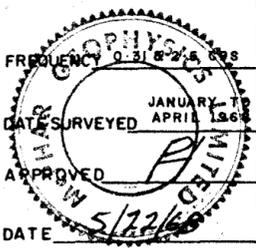
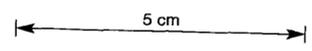
EAST GRID

Scale - One inch = 100 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE



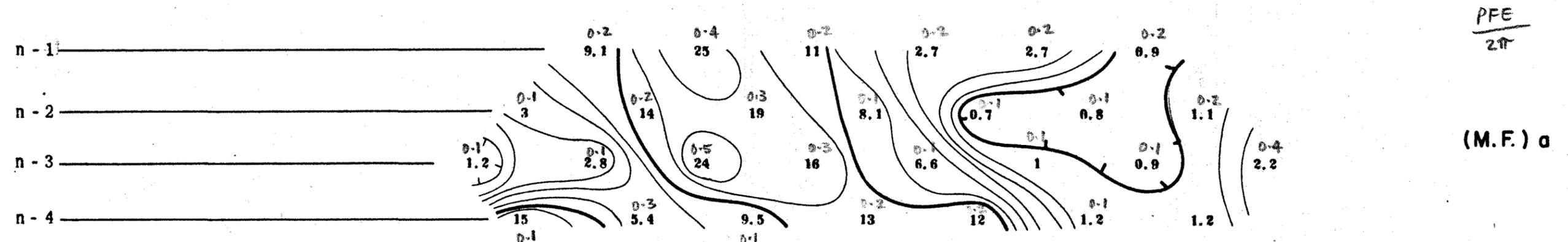
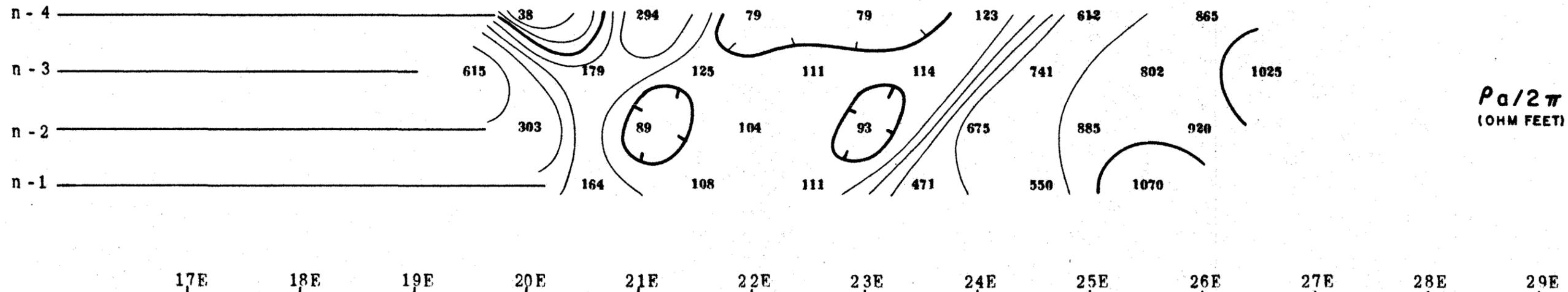
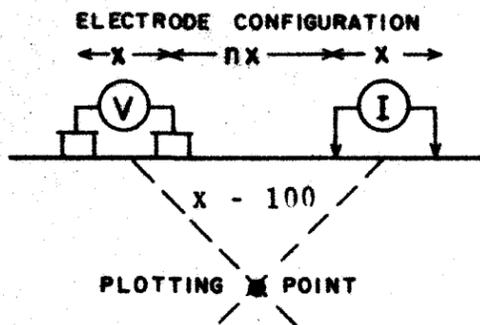
LINE NO. 16

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339060



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA

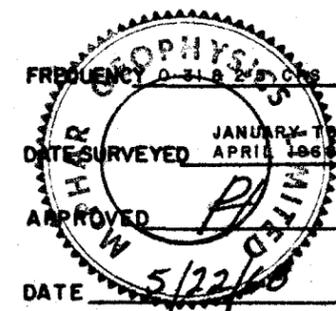
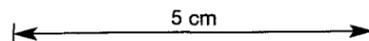
EAST GRID

Scale - One inch = 100 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE   
 PROBABLE   
 POSSIBLE



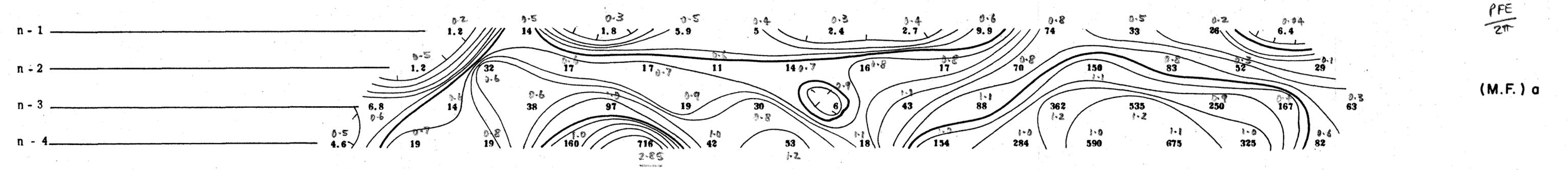
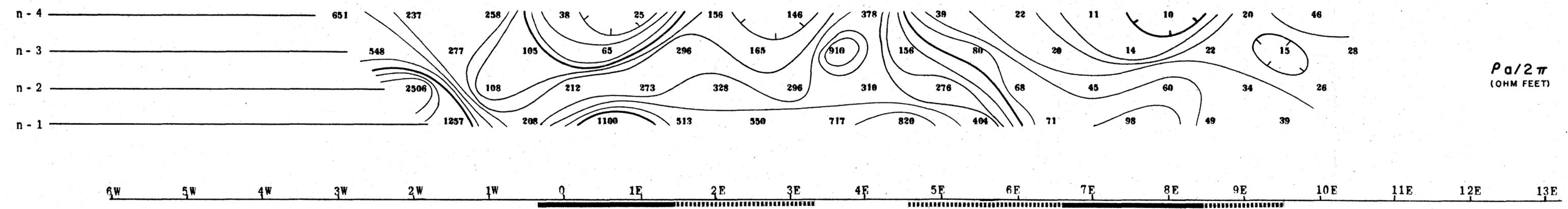
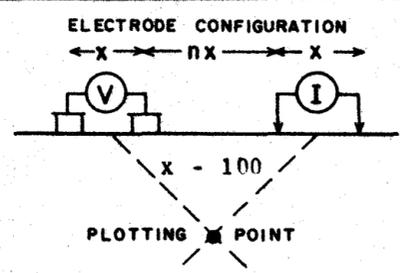
LINE NO. - 16 + 100 N

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339061



### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

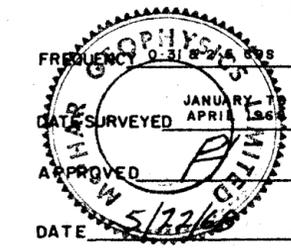
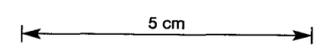
MOUNT TYNDALL AREA, TASMANIA  
 EAST GRID

Scale - One inch = 100 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE



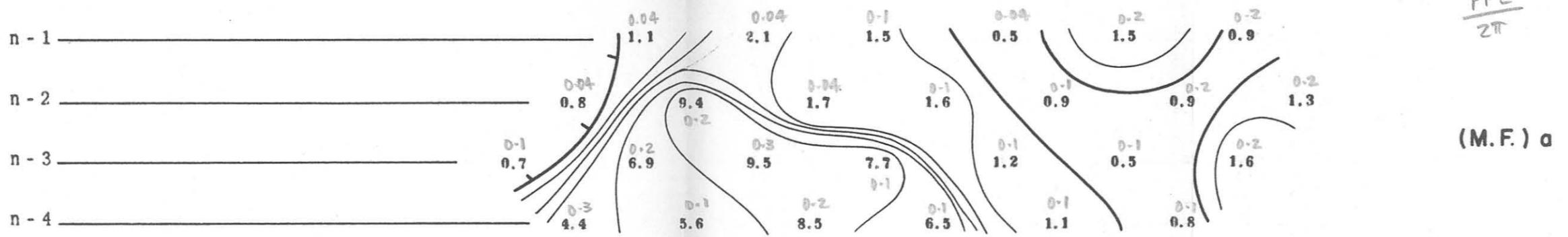
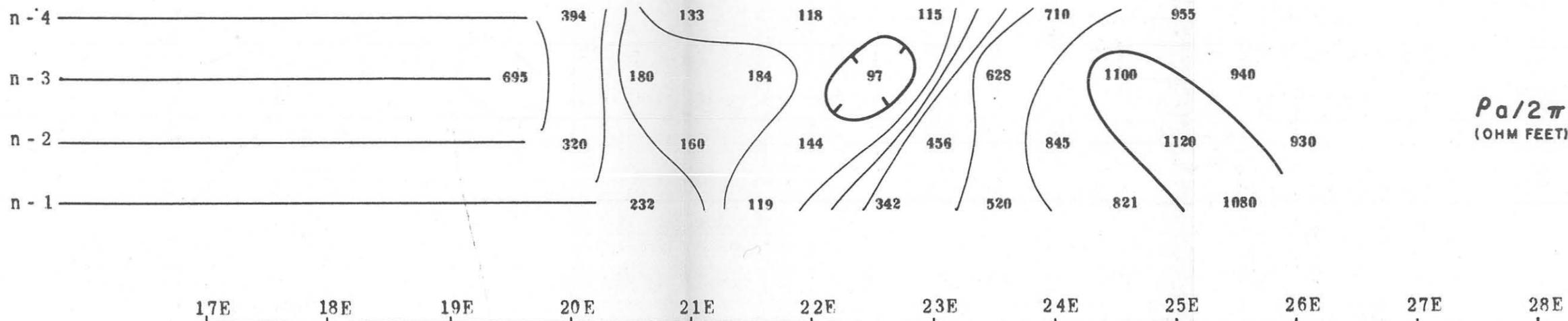
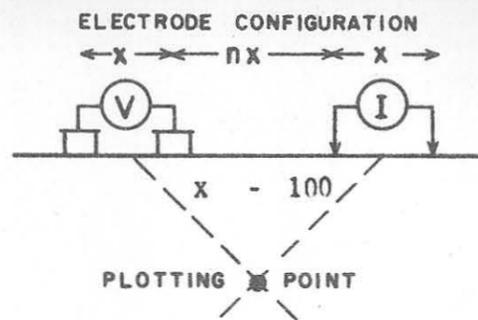
LINE NO. - 16 + 200N

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339062



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA

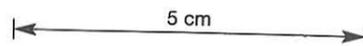
EAST GRID

Scale - One inch = 100 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE



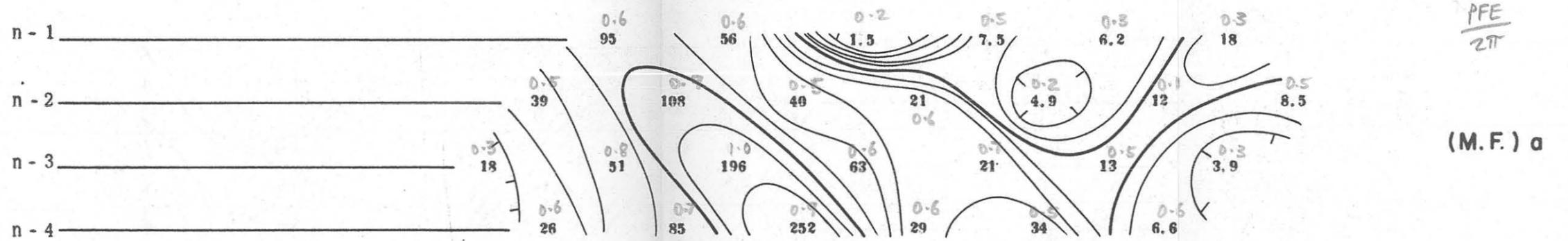
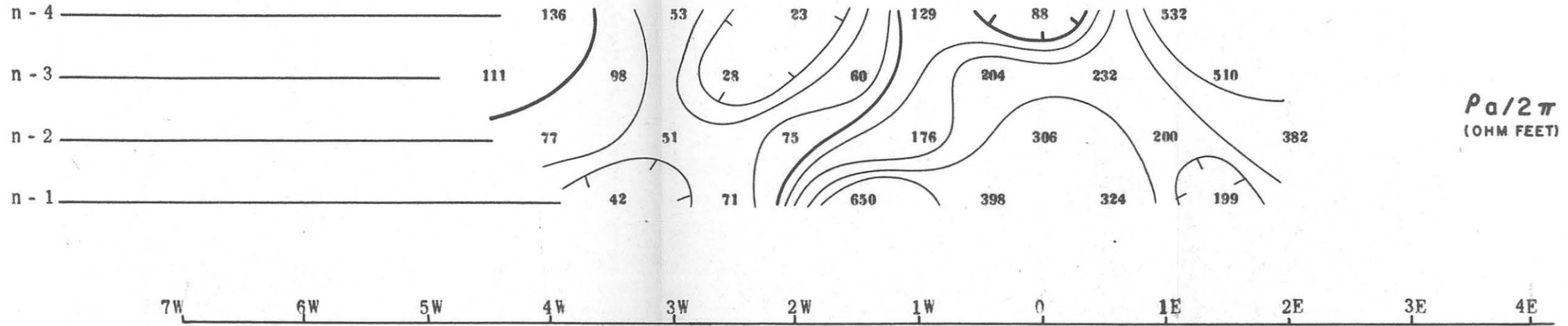
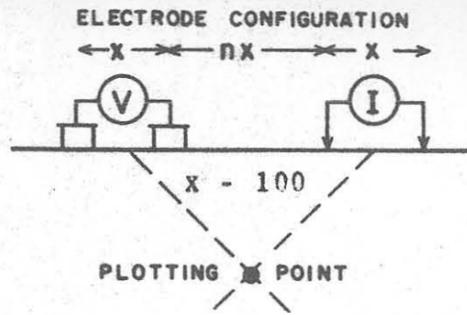
FREQUENCY 0.315 2.5 C/S  
 JANUARY TO  
 DATE SURVEYED APRIL 1968  
 APPROVED [Signature]  
 DATE 5/22/68

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339063



### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

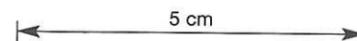
MOUNT TYNDALL AREA, TASMANIA  
EAST GRID

Scale - One inch = 100 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE



FREQUENCY 0.318 & 2.53 C/S  
 JANUARY TO APRIL 1968  
 DATE SURVEYED  
 APPROVED *[Signature]*  
 DATE 5/22/68

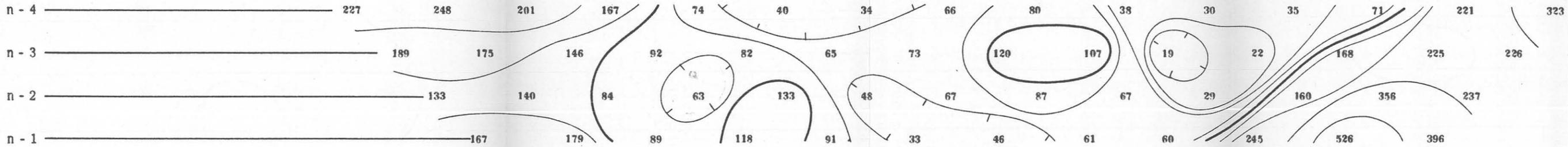
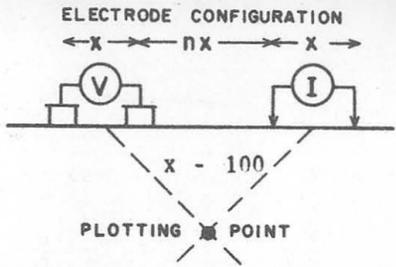
LINE NO. - 18 + 200 S

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

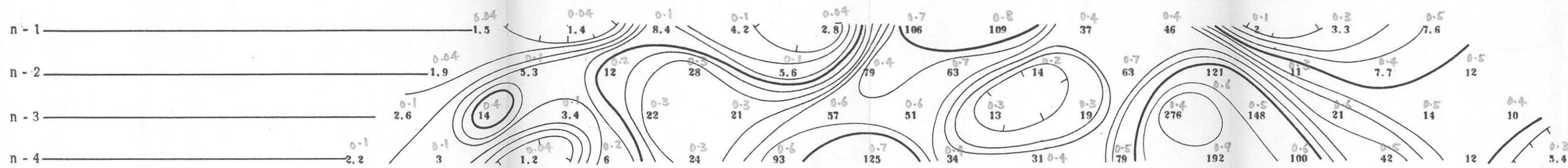
NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339064



$\rho_a / 2\pi$   
(OHM FEET)

14W 13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 3W 2W 1W 0 1E 2E 3E 4E 5E 6E



PFE  
2π

(M.F.) a

### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA

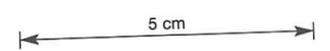
EAST GRID

Scale - One inch = 100 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE   
PROBABLE   
POSSIBLE



FREQUENCY 0.318 & 2.54 KHz  
JANUARY TO APRIL 1968  
DATE SURVEYED  
APPROVED   
DATE 5/22/68

LINE NO. 18

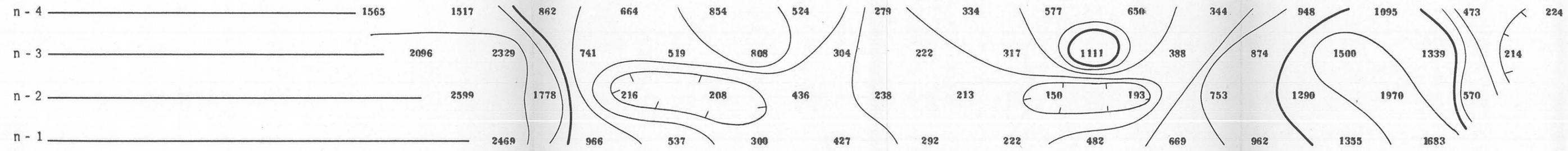
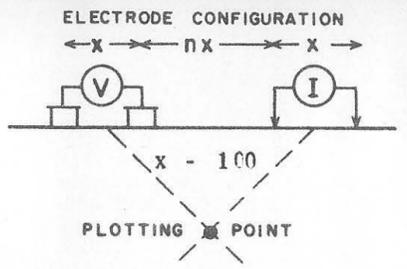


# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

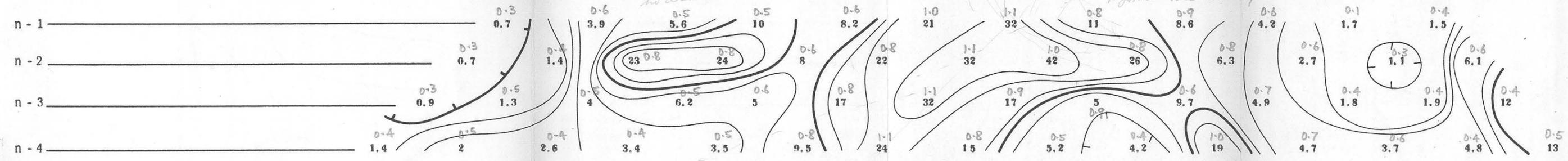
NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339066



$\rho_a / 2\pi$   
(OHM FEET)

29W 28W 27W 26W 25W 24W 23W 22W 21W 20W 19W 18W 17W 16W 15W 14W 13W 12W 11W 10W 9W



$\frac{PFE}{2\pi}$

(M.F.) a

### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

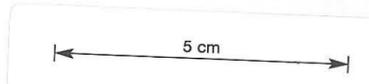
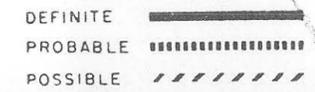
MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale - One inch = 100 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES



FREQUENCY 0.318 2.5 C/S  
JANUARY TO APRIL 1968  
DATE SURVEYED  
APPROVED  
DATE 5/22/68

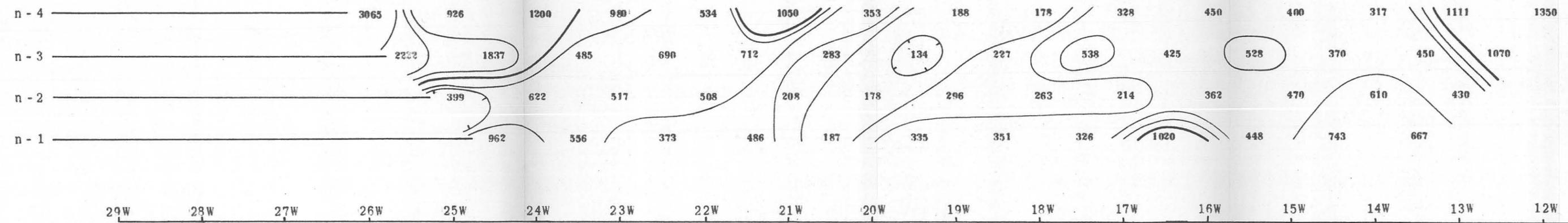
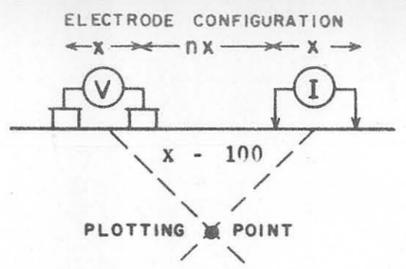
LINE NO. - 20 + 200S

# McPHAR GEOPHYSICS LIMITED

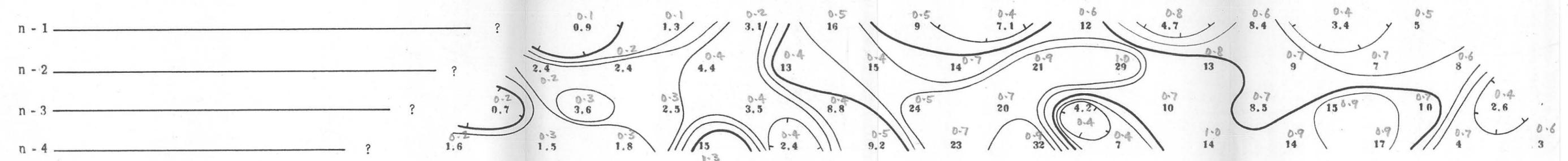
## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339067



$\frac{Pa}{2\pi}$   
(OHM FEET)



$\frac{PFE}{2\pi}$

(M.F.) a

? DATA MISSING

### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

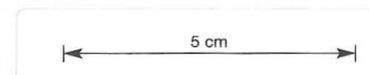
MOUNT TYNDALL AREA, TASMANIA  
EAST GRID

Scale - One inch = 100 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE



FREQUENCY 0.3183 Hz  
JANUARY TO APRIL 1964  
DATE SURVEYED  
APPROVED  
DATE 5/22/64

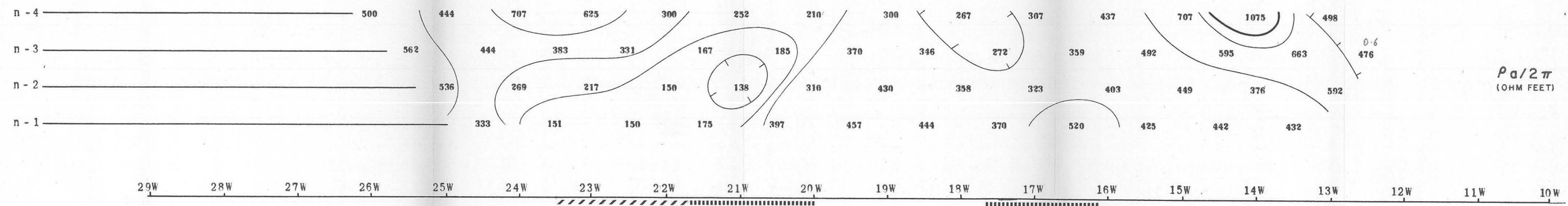
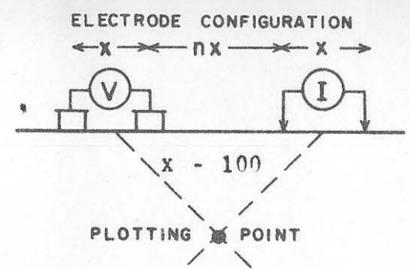
LINE NO. - 20

# McPHAR GEOPHYSICS LIMITED

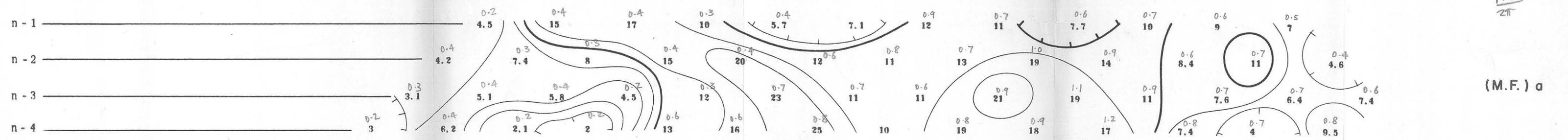
## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339068



$\rho_a / 2\pi$   
(OHM FEET)



PFE  
2π

(M.F.) a

### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA

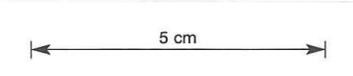
EAST GRID

Scale - One inch = 100 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE



FREQUENCY 0.318 & 2.5 EPS  
JANUARY TO APRIL 1964  
DATE SURVEYED  
APPROVED  
DATE 5/22/64

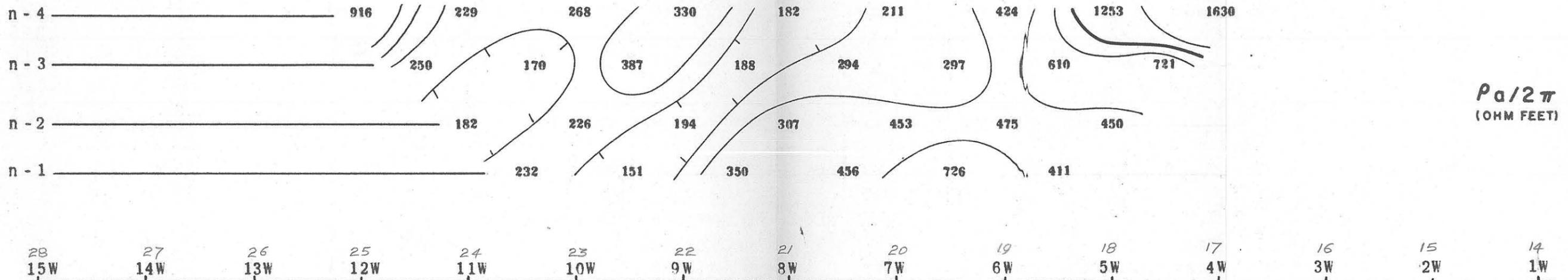
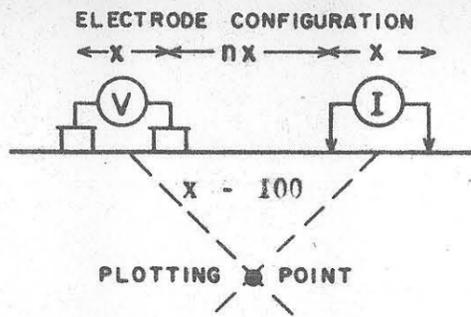
LINE NO. - 20 + 200N

# McPHAR GEOPHYSICS LIMITED

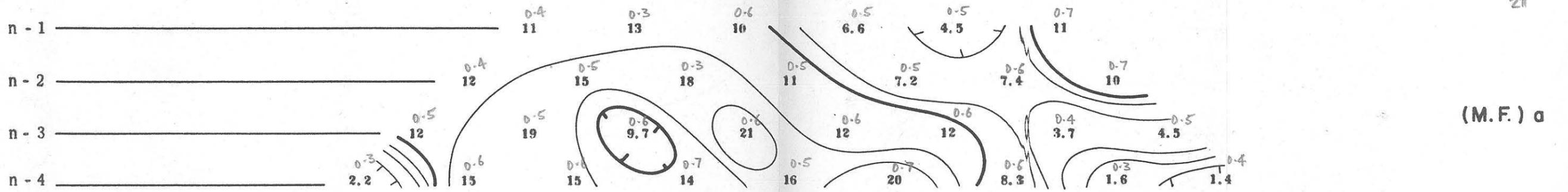
## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339069



$P_a/2\pi$   
(OHM FEET)



$PFE/2\pi$

(M.F.) a

### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
EAST GRID

Scale - One inch = 100 Feet

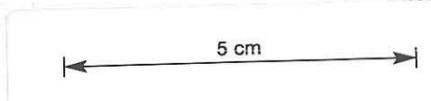
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



FREQUENCY 0.318 2.51 C/S

JANUARY TO APRIL 1968

DATE SURVEYED

APPROVED *[Signature]*

DATE 5/22/68

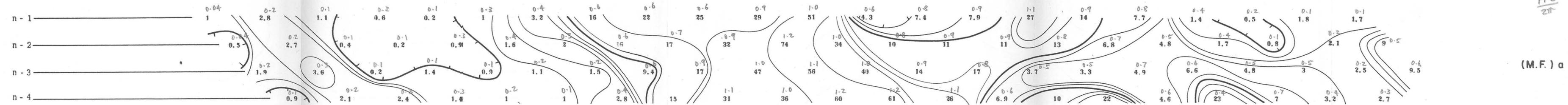
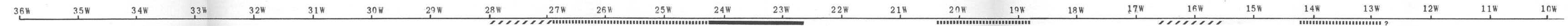
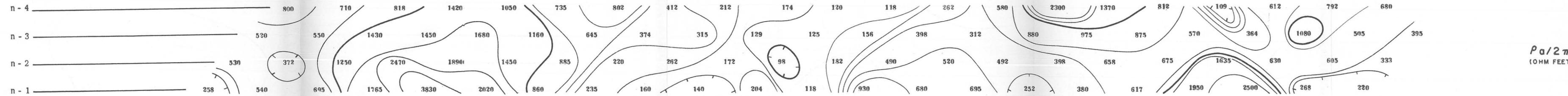
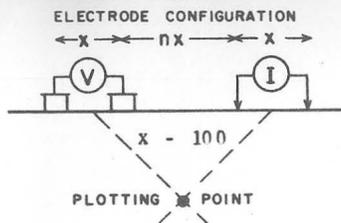
LINE NO.- 22+ 400 S

# McPHAR GEOPHYSICS LIMITED

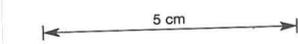
INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339070



SURFACE PROJECTION OF ANOMALOUS ZONES  
DEFINITE   
PROBABLE   
POSSIBLE



## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
EAST GRID

Scale—One inch= 100 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL



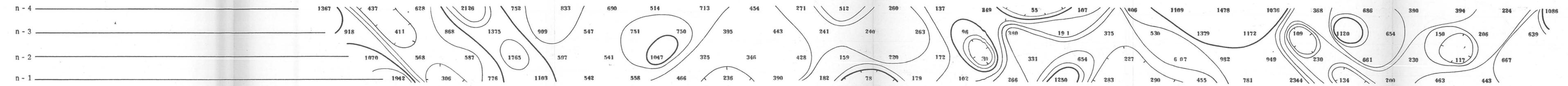
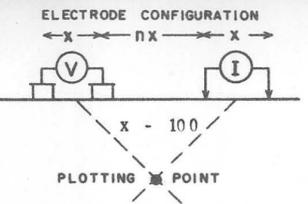
LINE NO.- 22 + 200 S

# McPHAR GEOPHYSICS LIMITED

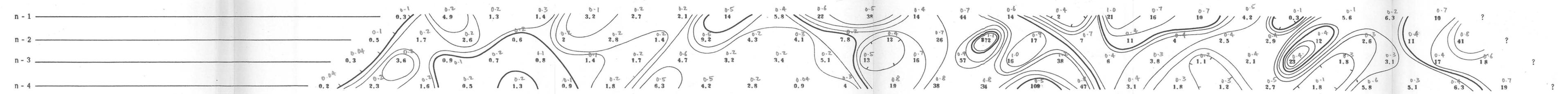
INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339071



$\rho_a / 2\pi$   
(OHM FEET)



PFE  
2R

(M.F.) a

? DATA MISSING

*Incompetent Idiots!*

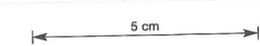
## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale—One inch= 100 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL



SURFACE PROJECTION OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE

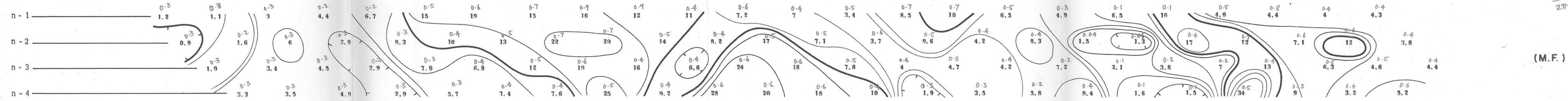
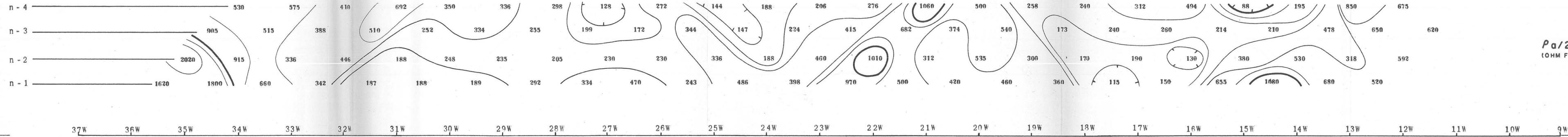
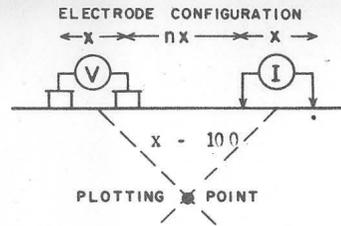
LINE NO.-22

# McPHAR GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339072



SURFACE PROJECTION OF ANOMALOUS ZONES  
DEFINITE **—————**  
PROBABLE **.....**  
POSSIBLE **///////**

## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
EAST GRID

Scale—One inch= 100 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

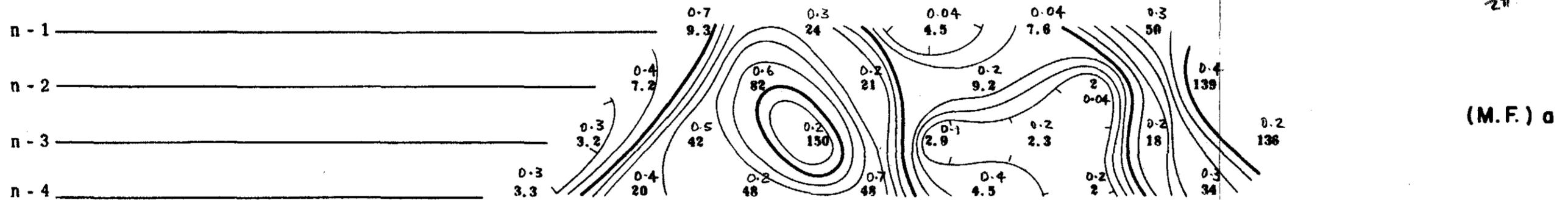
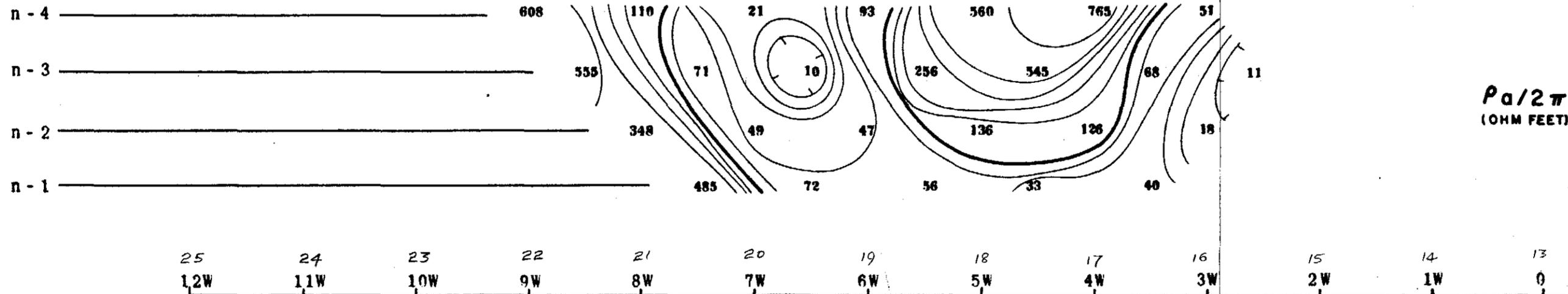
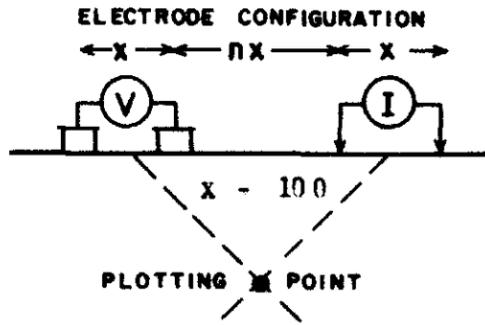
LINE NO. 1-22+200N

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339073



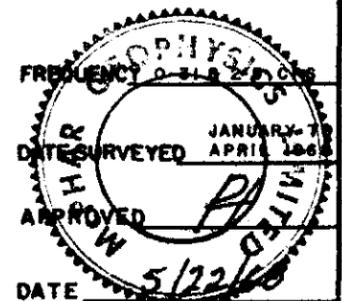
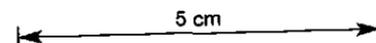
THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
 EAST GRID

Scale - One inch = 100 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES  
 DEFINITE   
 PROBABLE   
 POSSIBLE



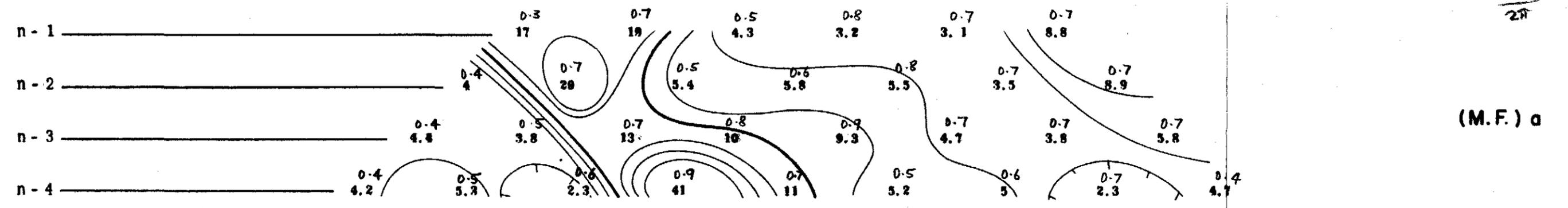
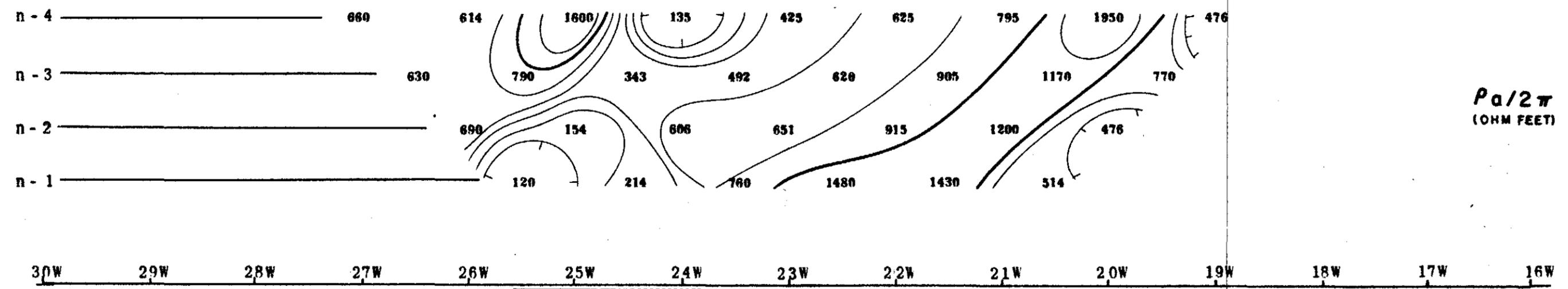
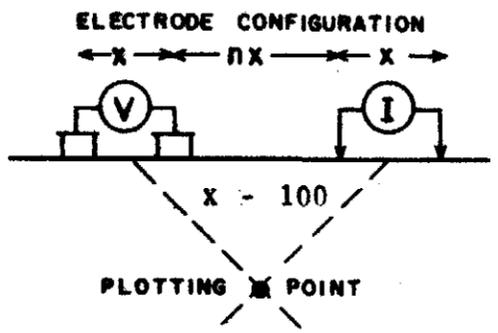
LINE NO.- 22+ 400N

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339074



## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
EAST GRID

Scale - One inch = 100 Feet

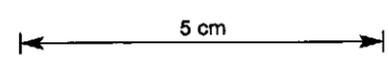
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



APPROVED

DATE 5/22/68

FREQUENCY 0.1-1000 Hz

DATE SURVEYED JANUARY TO APRIL 1968

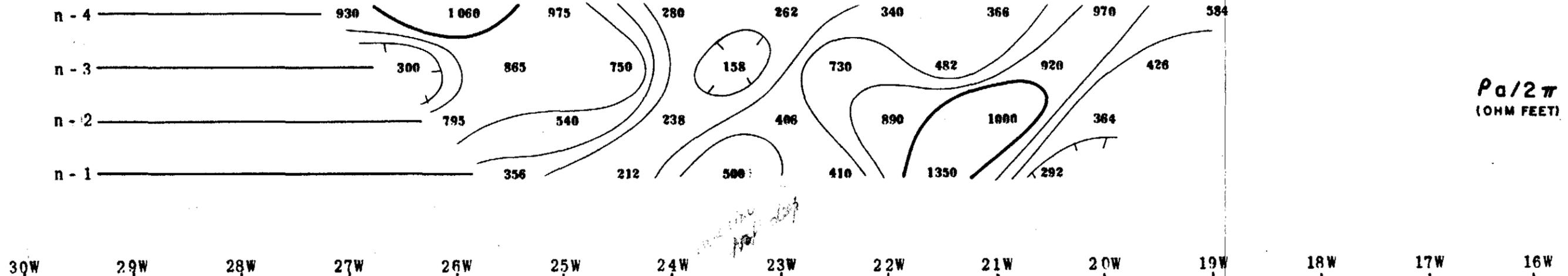
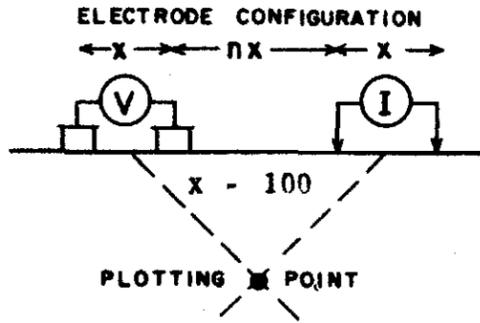
LINE NO. - 24 + 200 S

# McPHAR GEOPHYSICS LIMITED

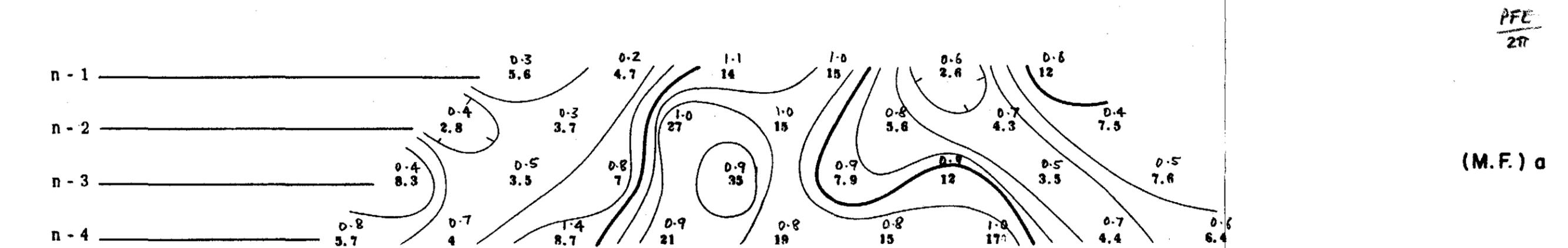
## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339075



$P_a/2\pi$   
(OHM FEET)



$PFE/2\pi$

(M.F.) a

## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

### MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale - One inch = 100 Feet

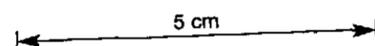
NOTE LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



FREQUENCY 0-31.25 CPS

JANUARY 1966

DATE SURVEYED APRIL 1966

APPROVED *[Signature]*

DATE 5/22/66

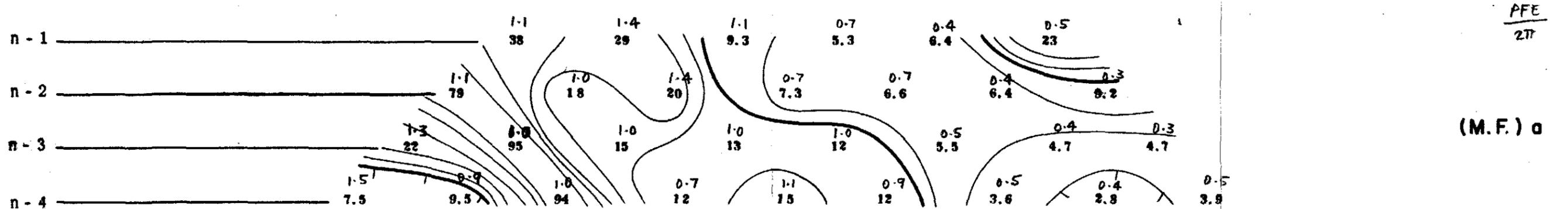
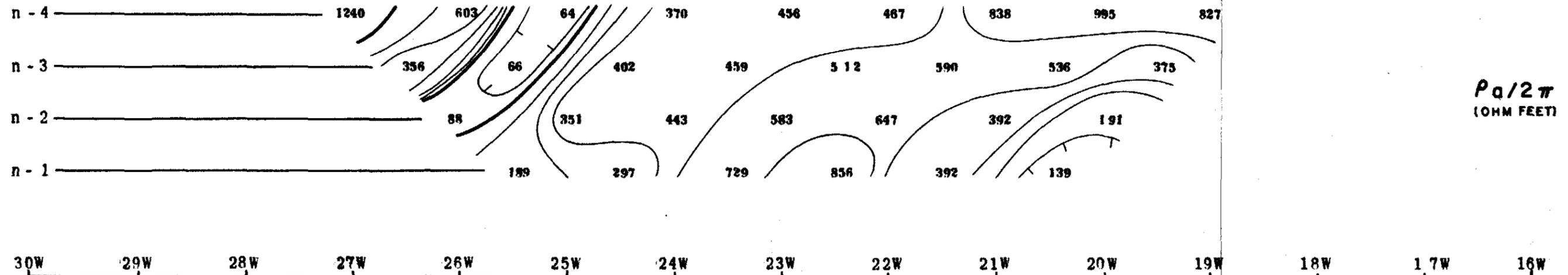
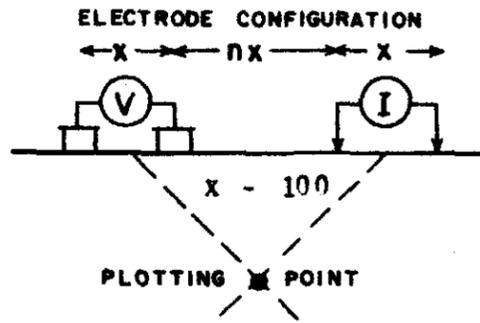
LINE NO.-24

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339076



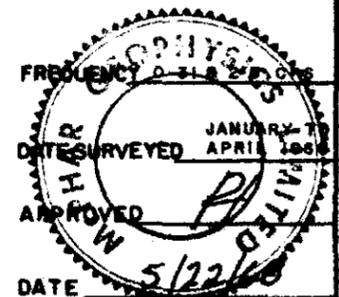
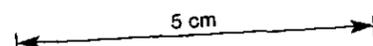
THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
 EAST GRID

Scale - One inch = 100 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES  
 DEFINITE   
 PROBABLE   
 POSSIBLE



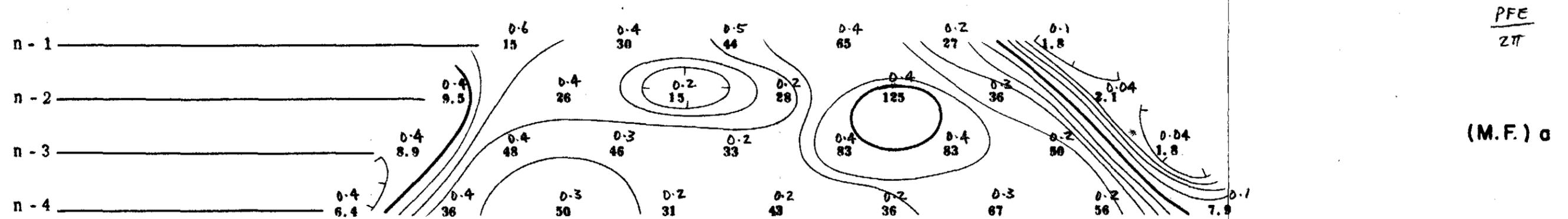
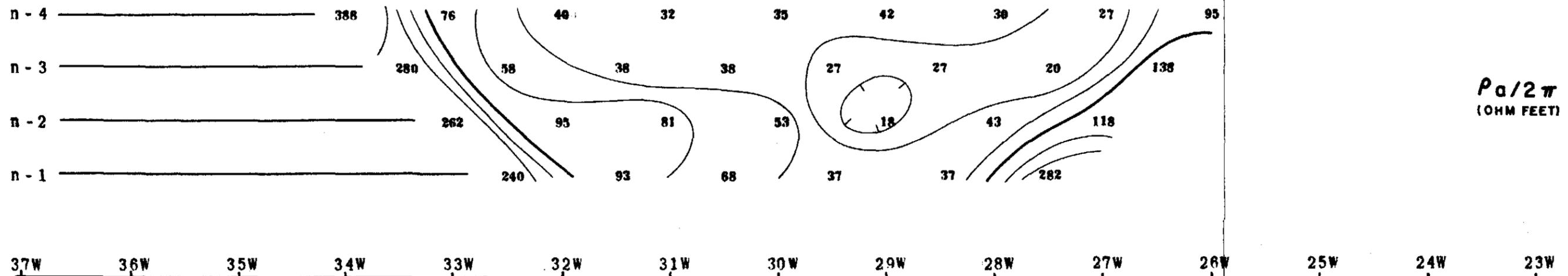
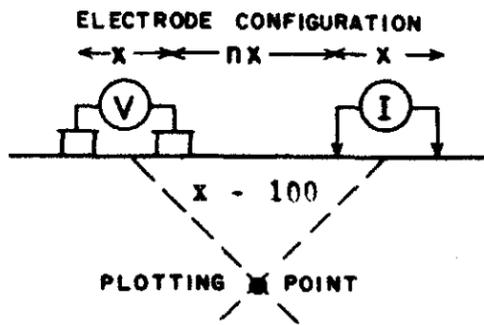
LINE NO.-24+200N

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339077



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

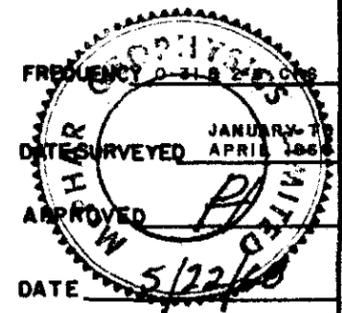
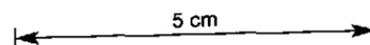
MOUNT TYNDALL AREA, TASMANIA  
 EAST GRID

Scale - One inch = 100 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE   
 PROBABLE   
 POSSIBLE



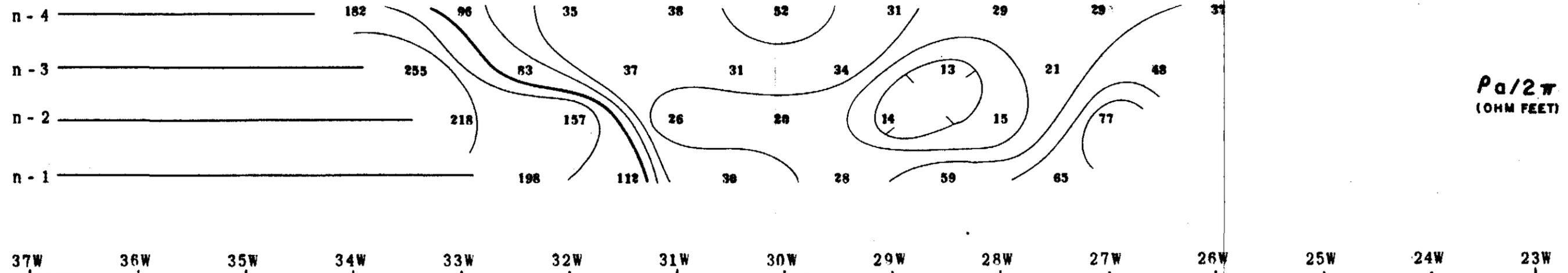
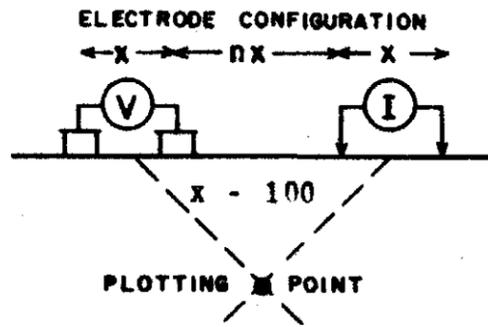
LINE NO - 28 + 200 S

# McPHAR GEOPHYSICS LIMITED

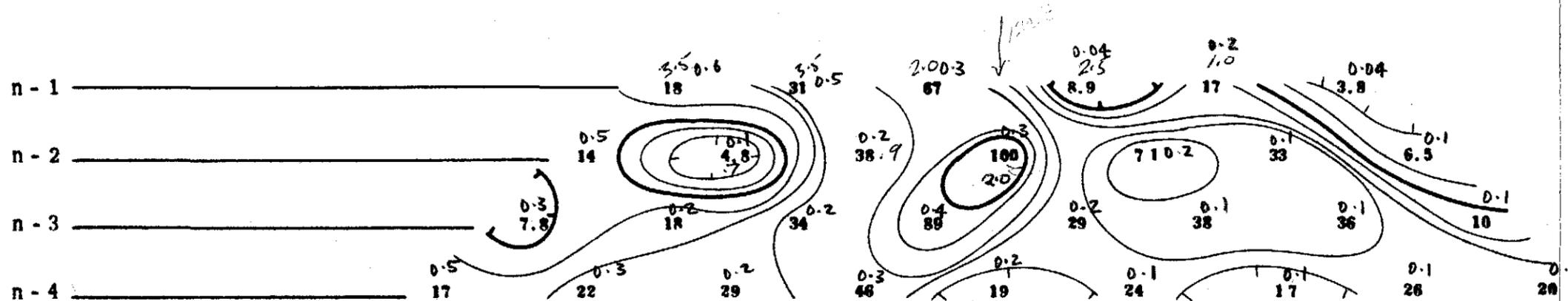
## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339078



$\rho_a / 2\pi$   
(OHM FEET)



$\frac{P_a}{2\pi}$   
2%

(M.F.) a

## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
EAST GRID

Scale - One inch = 100 Feet

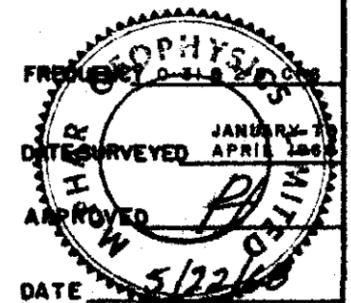
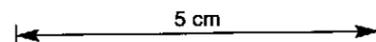
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



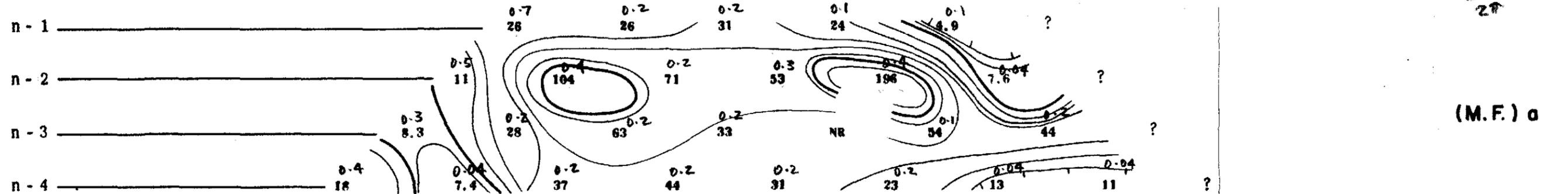
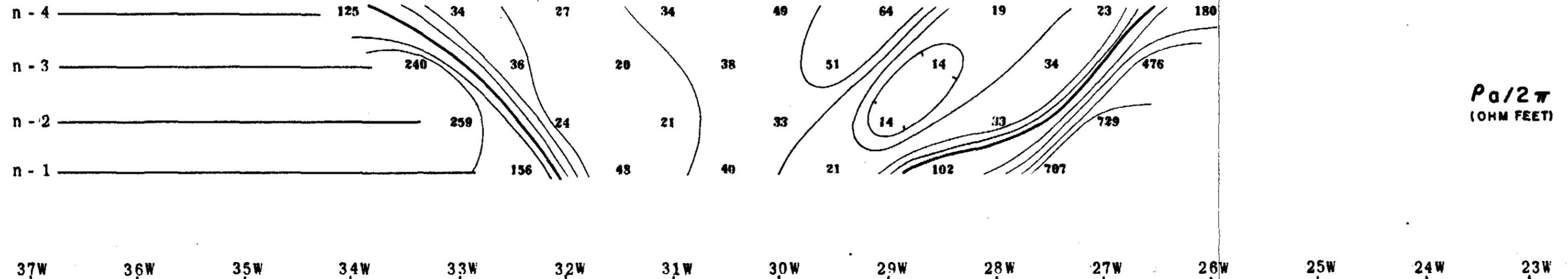
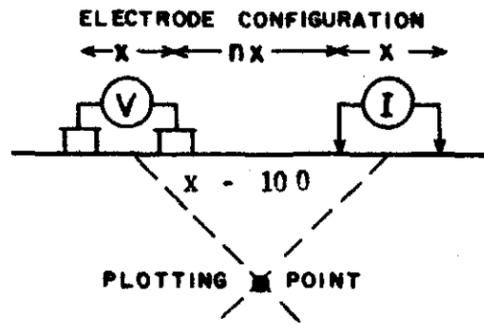
LINE NO.- 28

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339079



? DATA MISSING

### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
EAST GRID

Scale—One inch= 100 Feet

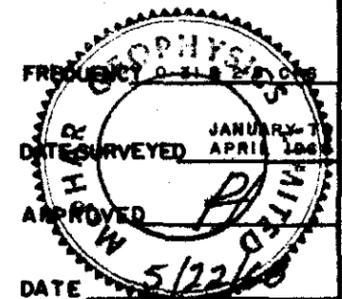
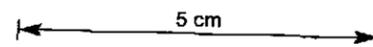
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



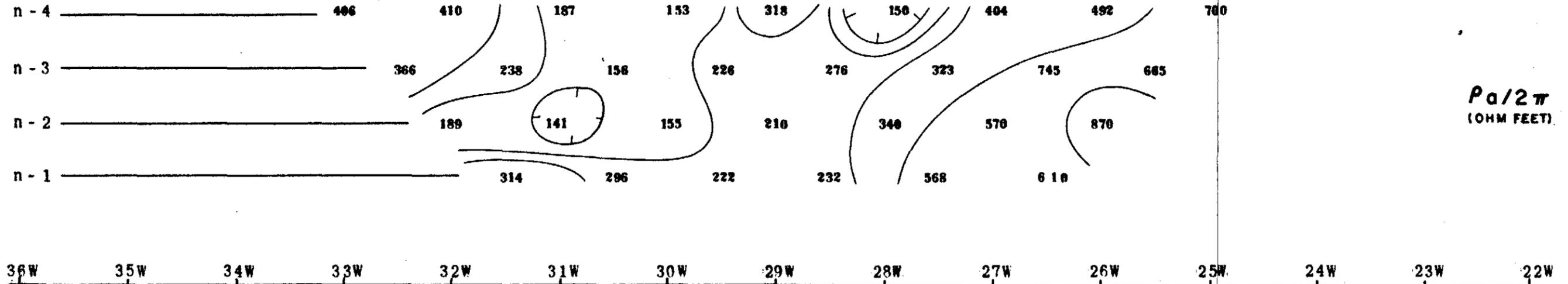
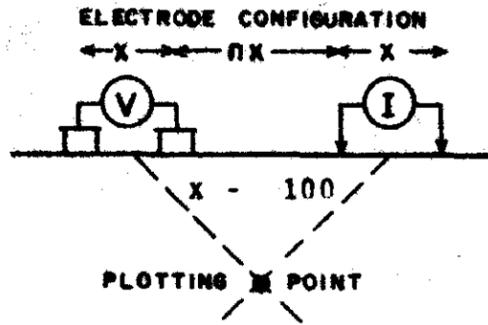
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# McPHAR GEOPHYSICS LIMITED

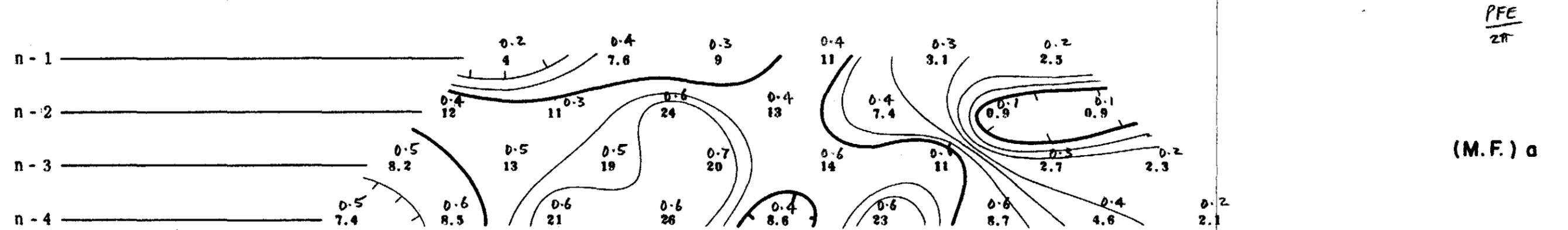
## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339080



$\rho_a/2\pi$   
(OHM FEET)



$\frac{\rho_{FE}}{2\pi}$

(M.F.) a

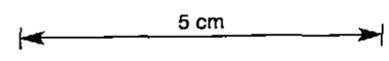
### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
EAST GRID

Scale - One inch = 100 Feet

NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES  
DEFINITE   
PROBABLE   
POSSIBLE



FREQUENCY 0.1-1000 CYCLES  
DATE SURVEYED JANUARY TO APRIL 1968  
APPROVED M.P.H.  
DATE 5/22/68

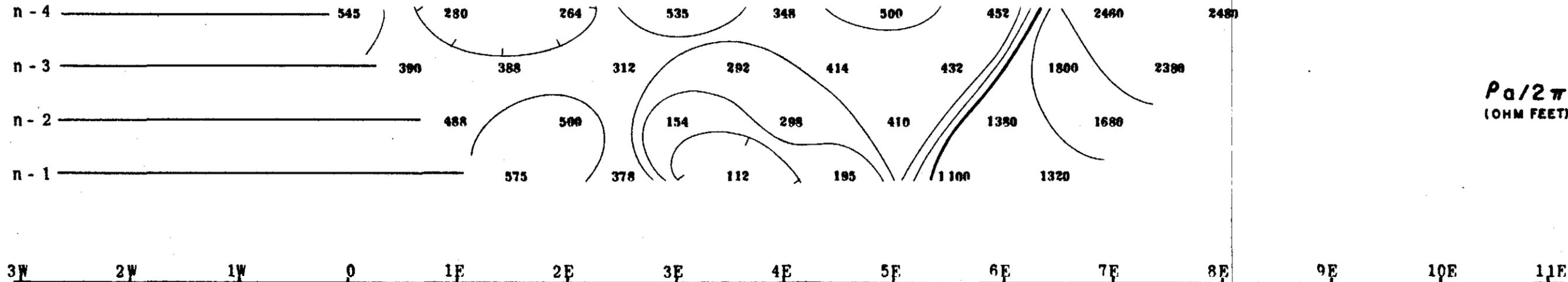
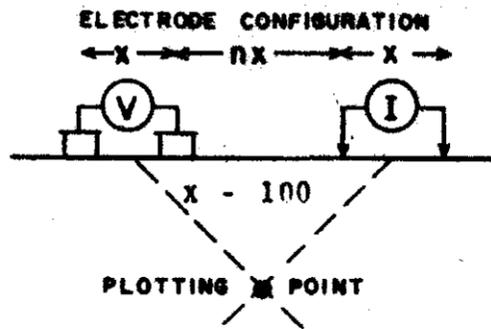
LINE NO.- 30

# McPHAR GEOPHYSICS LIMITED

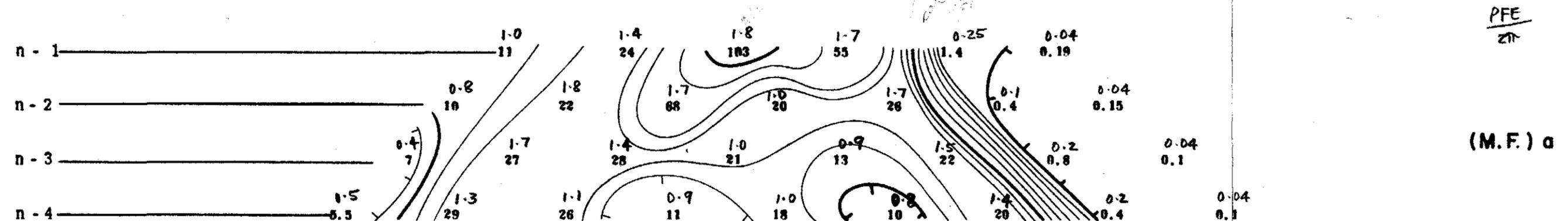
## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339081



$P_a/2\pi$   
(OHM FEET)



$PFE/2\pi$

(M.F.) a

## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

### MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale - One inch = 100 Feet

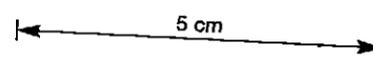
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



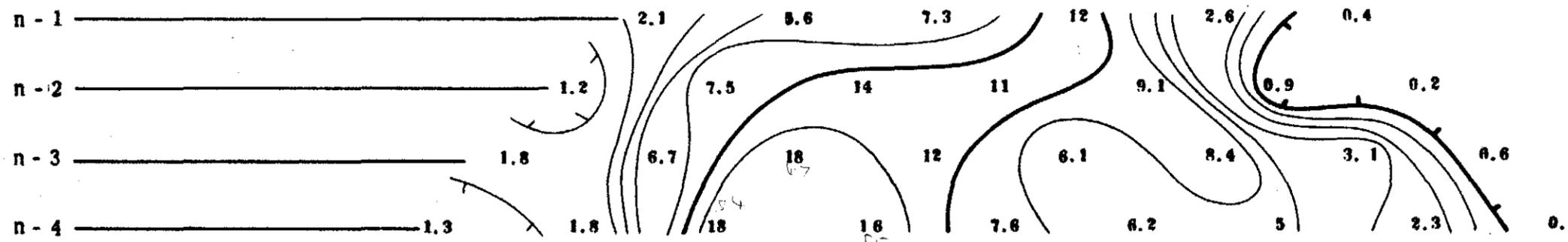
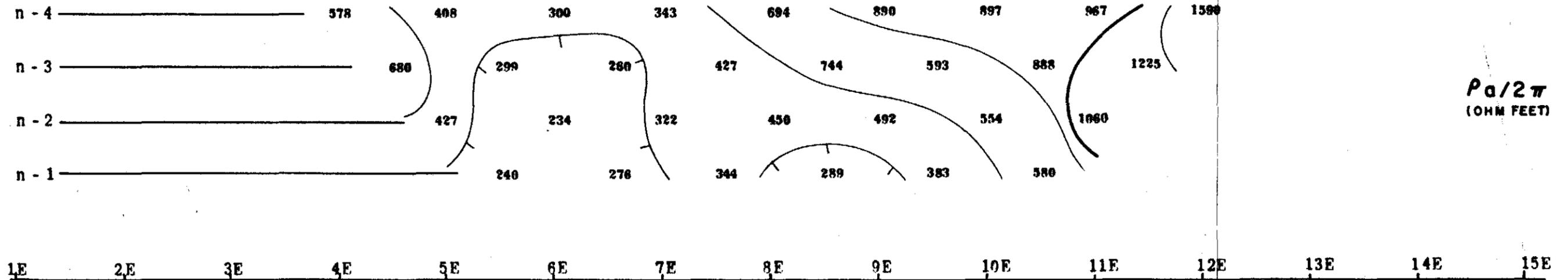
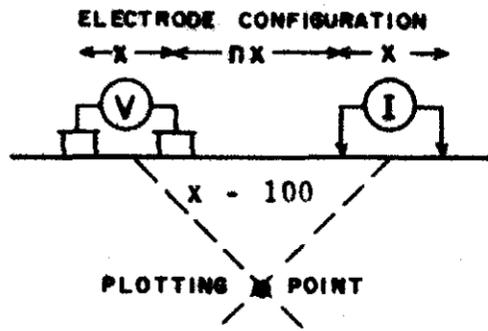
LINE NO.- 30

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339082



## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
EAST GRID

Scale - One inch = 100 Feet

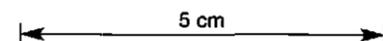
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



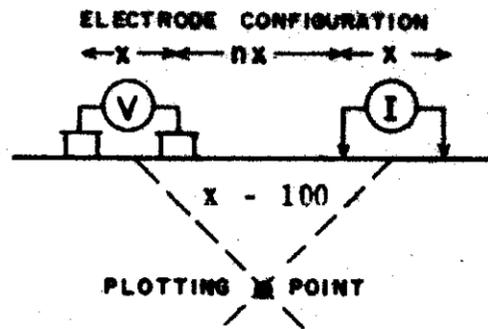
LINE NO.-32

# McPHAR GEOPHYSICS LIMITED

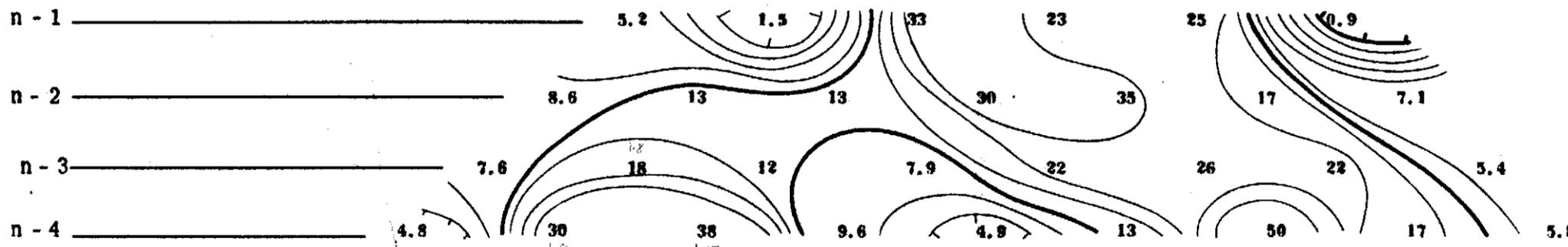
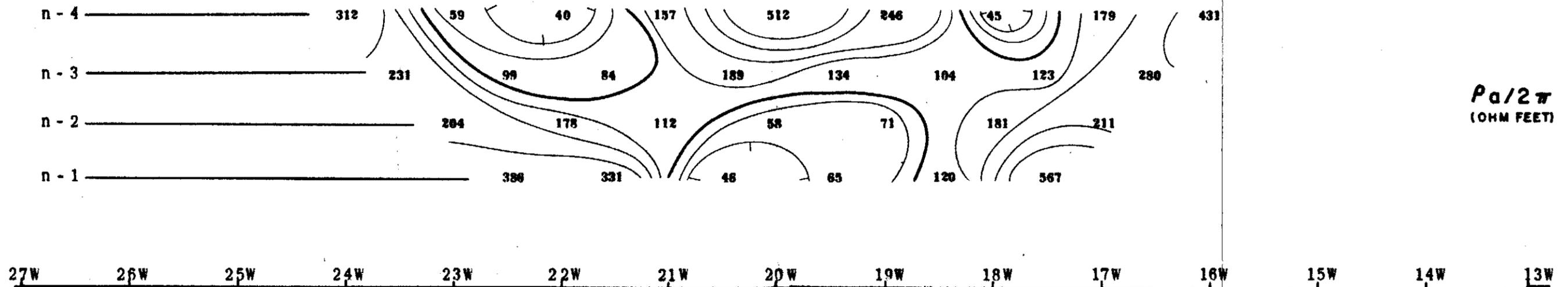
## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339083



$\rho_a / 2\pi$   
(OHM FEET)



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA; TASMANIA

EAST GRID

Scale - One inch = 100 Feet

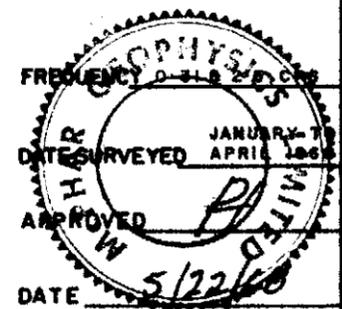
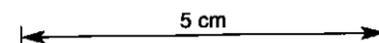
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



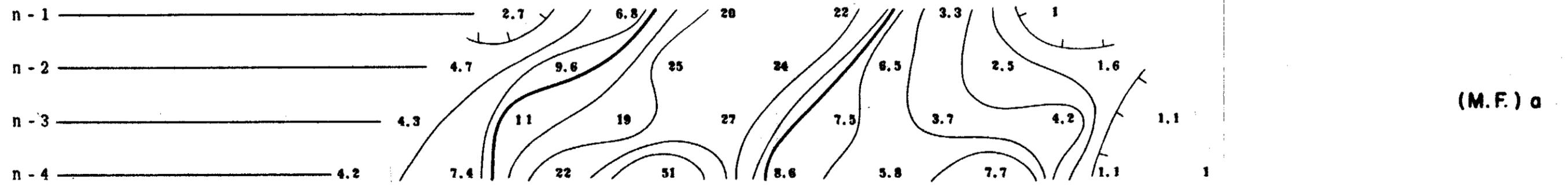
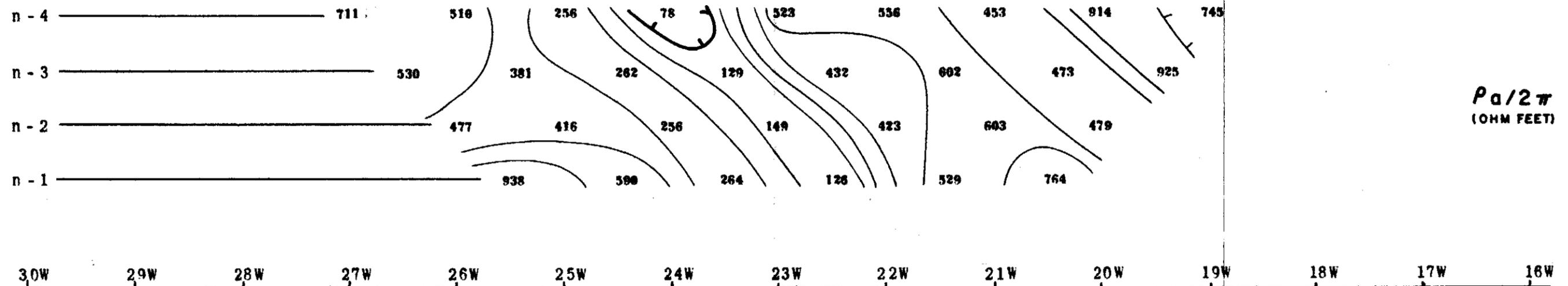
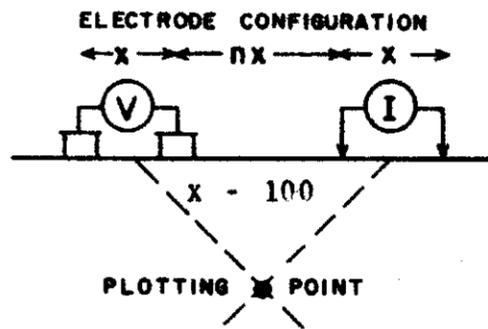
LINE NO. - 34

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339084



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale - One inch = 100 Feet

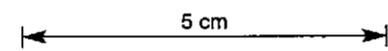
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

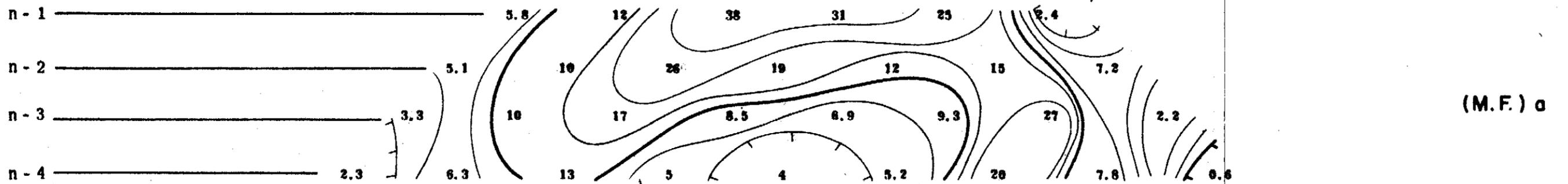
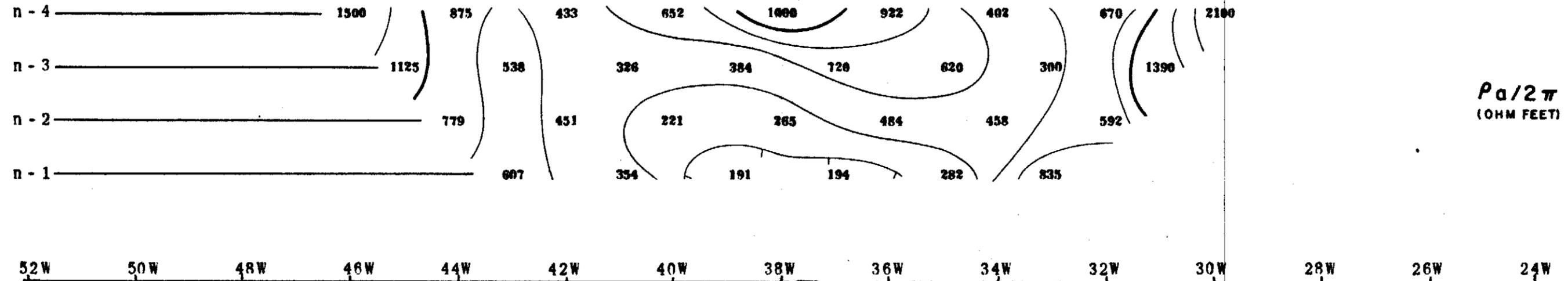
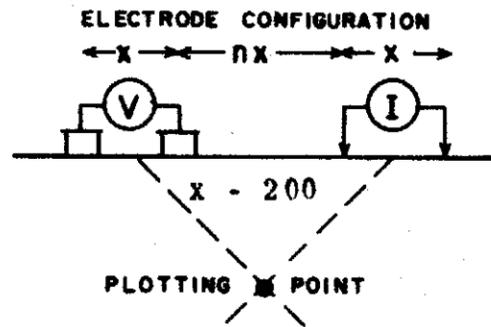


LINE NO. - 36

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT  
LOGARITHMIC MULTIPLES  
OF 10-15-20-30-50-75-100  
**339085**



## THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

### MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale - One inch = 200 Feet

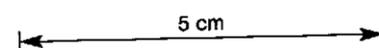
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION  
OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



FREQUENCY 0.1-1000 Hz

JANUARY - 79

DATE SURVEYED APRIL 1968

APPROVED *[Signature]*

DATE 5/22/68

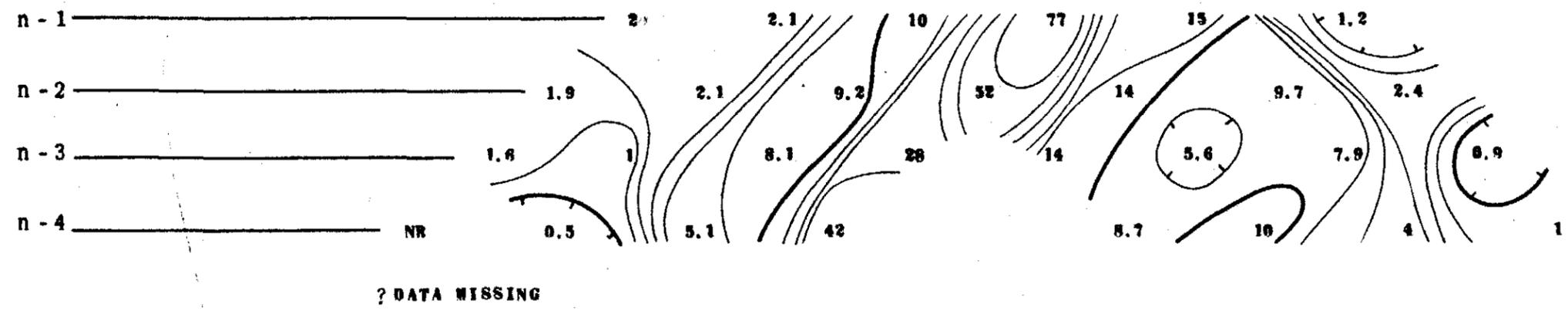
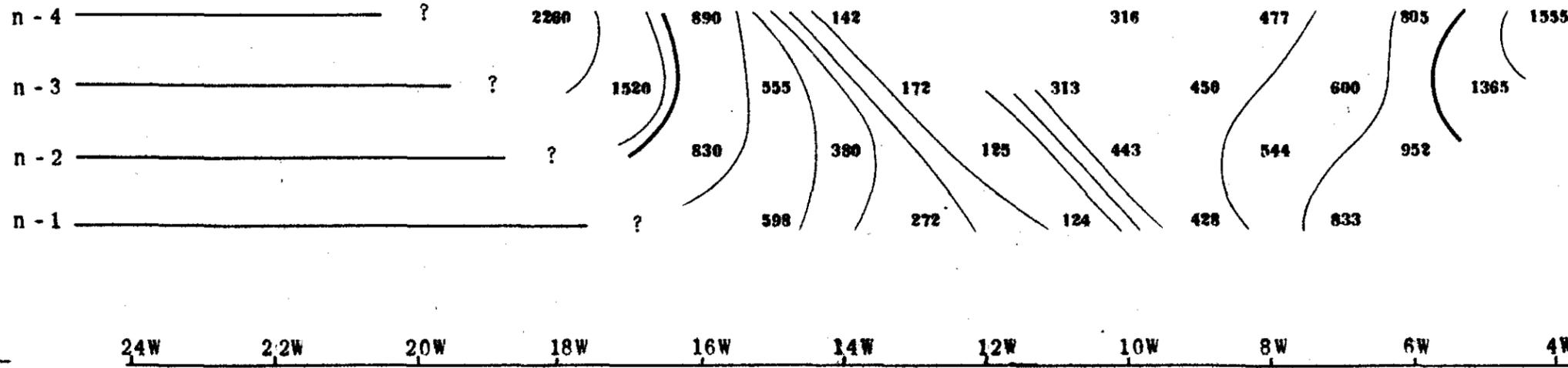
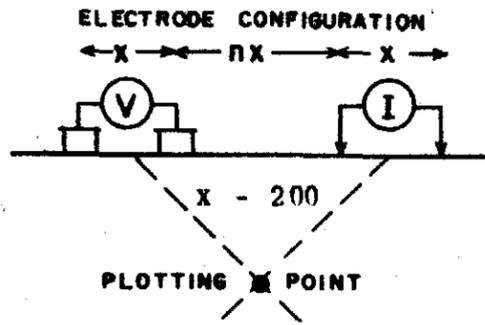
LINE NO. - 38

# McPHAR GEOPHYSICS LIMITED

## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339086



### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

MOUNT TYNDALL AREA, TASMANIA  
 EAST GRID

Scale - One inch = 200 Feet

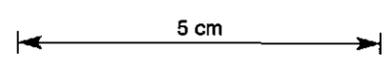
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



McPHAR GEOPHYSICS  
 FREQUENCY 0-31.25 C/S  
 DATE SURVEYED JANUARY 7 1968  
 APRIL 1968  
 APPROVED   
 DATE 5/22/68

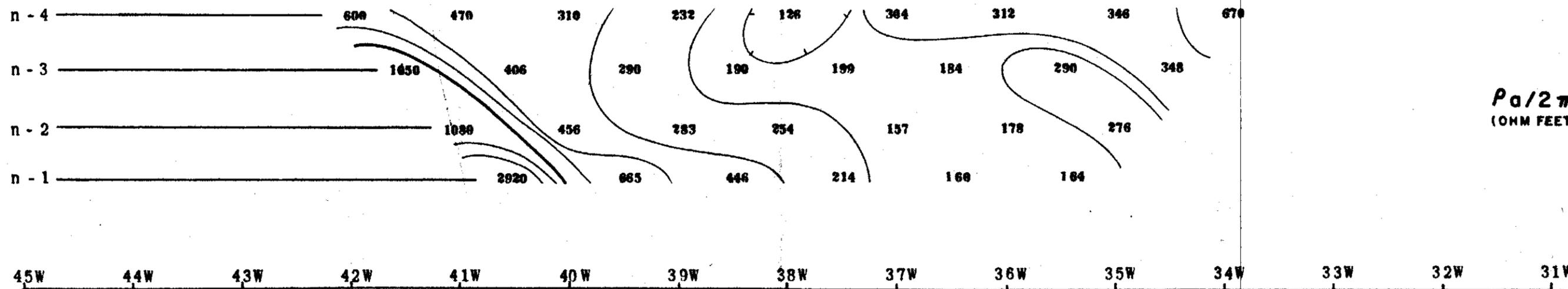
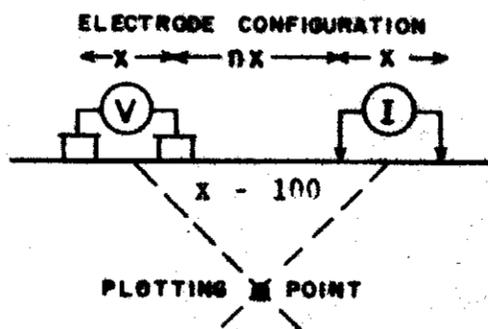
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# McPHAR GEOPHYSICS LIMITED

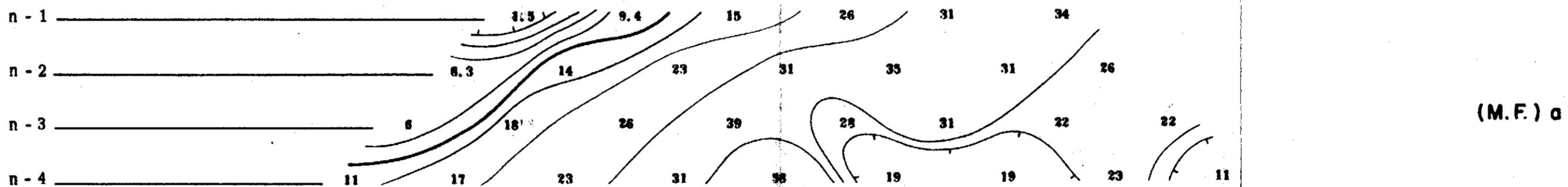
## INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

339087



$P\alpha/2\pi$   
(OHM FEET)



(M.F.) α

### THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

### MOUNT TYNDALL AREA, TASMANIA

EAST GRID

Scale - One inch = 100 Feet

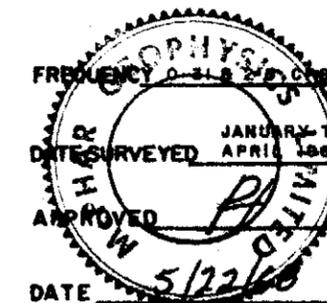
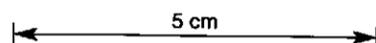
NOTE: LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE



LINE NO. - 38