

4228

GEOPHYSICAL REPORT

Induced Polarization Survey on the Anita 29 -34,
40, and 42 - 44 Mineral Claims.

Princeton Area: $49^{\circ} 40'$, $120^{\circ} 30'$
92 H/10

Craigmont Mines Ltd.

R.W. Cannon, B.A.Sc.,
P.Eng.

January 1973.

Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. 4228 MAP _____

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ILLUSTRATIONS

I.P. Sections	At the end of Report
# Claim Map showing Grid	In Pocket
Induced Polarization Results	
# Resistivity N = 1.	In Pocket
Resistivity N = 3.	" "
P.F.E. N = 1	" "
P.F.E. N = 3	" "
# Location Map	In Pocket.

THE METHOD OF FIELD OPERATION

In the field procedure, measurements on the surface were 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 of the ground. Current was applied to the ground at two points (X) feet apart. The potentials were measured at two other points (X) feet apart, in line with the current electrodes. The distance between the nearest current and potential electrodes was an integer number (N) times the basic distance (X).

The measurements were made along surveyed lines, with a constant distance (NX) between the nearest current and potential electrodes. Measurements were taken with values of N = 1, 2 and 3 for X = 200'.

In plotting the results, the values of the apparent resistivity, percent frequency effect and the apparent metal factor measured for each set of electrode positions were 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. The resistivity values, the percent frequency effects and metal factors were plotted below the line. 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 plotted results were contoured using a logarithmic contour interval 1, 1.5, 2, 3, 7.5, and 10.

INDUCED POLARIZATION SURVEY ON THE MONTANA MINES PROPERTY,
PRINCETON AREA, B.C.

INTRODUCTION

An Induced Polarization survey was carried out on the Montana Mines property for Craigmont Mines Ltd. during the month of December, 1972. This survey covered a total of 4.7 miles of flagged line. The lines were at 400 foot intervals with stations marked every 100 feet.

The I.P. Survey was carried out using McPhar frequency effect equipment (Models P-654 and P-660) employing frequencies of 0.31 and 5.0 Hertz.

LOCATION AND ACCESS

The property is located east of Allison Lake and is about 20 miles North of Princeton. Access to the property is by 4-wheel drive vehicle along a 5 mile bush-road which cuts off the Princeton-Merritt Highway at Mile 22.

PROPERTY

The property consists of a contiguous group of claims called the Anita group. The work was carried out on portions of the following claims:

<u>Name</u>	<u>Record No.</u>	<u>Expiry Date</u>
Anita 29 - 34	35747/52	May 25, 1973
Anita 40	35758	May 25, 1973
Anita 42 - 44	35760/62	May 25, 1973

PREVIOUS WORK

The area concerned was previously covered by a geochem soil sampling survey as well as by a magnetometer survey. A lineament study was also conducted on the property.

PRESENTATION OF RESULTS

The Induced Polarization and Resistivity results are shown on the enclosed data plots in the manner described in the notes preceding this report. The eight lines were run using an electrode spread of 200 feet and dipole separations of $N = 1, 2$ and 3 . The Percent Frequency Effect results shown as T.N. were too noisy to get an acceptable reading. Plan maps of P.F.E. and resistivity ($N = 1$ and 3) are located in the pocket at the end of the report.

DISCUSSION OF RESULTS

A slight P.F.E. anomaly was detected on Line 16 + 00S at about 8 + 00E. The anomalous readings are deep and may reflect the change in subsurface geometry as one goes from Lake to the shore. This anomaly is not detected on either Line 12 + 00S or 20 + 00S.

The resistivity lows outlined trends which are similar to those revealed in the lineament study and in part correspond to streams and swampy areas around the lake.

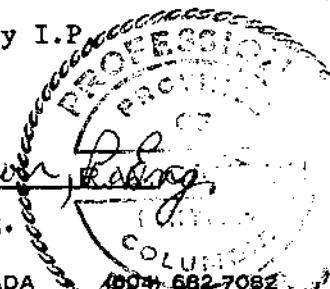
CONCLUSIONS AND RECOMMENDATIONS

It is concluded that there is only one anomaly of any significance on the property. This anomaly, located at 16 + 00S, 8 + 00E, may be due to geometric effects and not sulfides.

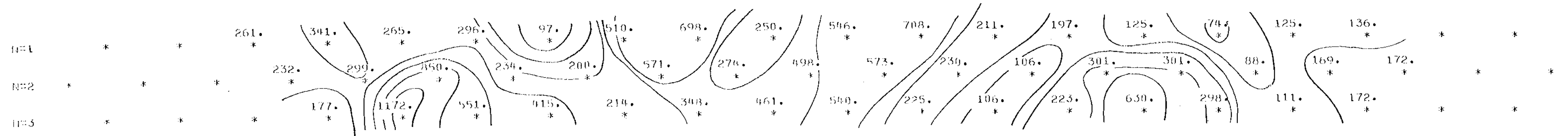
It is recommended that if any drilling is planned that one hole be placed in the above location. The rest of the area covered by I.P. revealed no significant anomalies.

RWC/ts

R. W. Cannon
R. W. Cannon, P. Eng.



14W 12W 10W 8W 6W 4W 2W 00 2E 4E 6E 8E 10E 12E 14E 16E 18E 20E 22E 24E 26E



RESISTIVITY

14W 12W 10W 8W 6W 4W 2W 00 2E 4E 6E 8E 10E 12E 14E 16E 18E 20E 22E 24E 26E

N#1	*	*	.5	.7	.2	1.2	-2.0	0.0	-1.2	.0	.0	.2	-1.0	.2	.2	.2	.2	*	*
N#2	*	*	.5	.2	1.0	(-3.0)	-.5	.7	.0	.0	.0	.5	.0	.0	.0	.7	1.0	*	*
N#3	*	*	.2	1.0	-.5	0.0	.5	.0	.0	.5	.2	.0	.0	.2	.5	.5	1.2	*	*

% FREQUENCY EFFECT

14W 12W 10W 8W 6W 4W 2W 00 2E 4E 6E 8E 10E 12E 14E 16E 18E 20E 22E 24E 26E

N#1	*	*	1.9	2.0	.8	4.1	-20.7	.2	-1.7	*	*	.3	-2.4	-5.1	1.6	2.7	1.6	1.5	*	*
N#2	*	*	2.2	.7	1.2	(-34.1)	-2.5	1.2	*	*	*	2.2	*	*	*	*	4.1	5.8	*	*
N#3	*	*	1.1	.9	-.9	*	2.3	*	*	*	*	.9	.9	*	.3	1.7	4.5	7.0	*	*

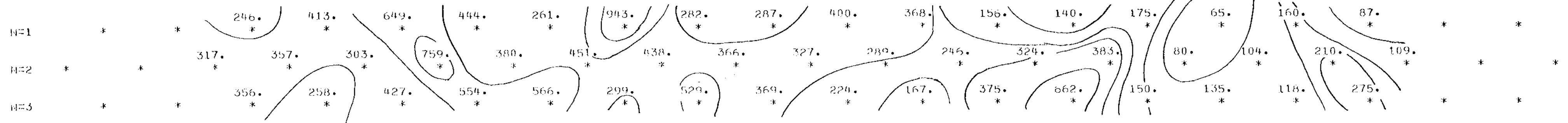
METAL FACTOR

Department of
 Mines and Geology Resources
 ASSESSMENT REPORT
 NO. 4228 MAP

CRAIGHOPE EXPLORATIONS LTD.
 MONTANA MINES
 INDUCED POLARIZATION RESULTS
 0.3 + 5 HZ 1 INCH = 200 FT
 LINE 28 S



14W 12W 10W 8W 6W 4W 2W 00 2E 4E 6E 8E 10E 12E 14E 16E 18E 20E 22E 24E 26E
 * * * * *
 * * * * *



RESISTIVITY

14W 12W 10W 8W 6W 4W 2W 00 2E 4E 6E 8E 10E 12E 14E 16E 18E 20E 22E 24E 26E
 * * * * *
 * * * * *

Station	N=1	N=2	N=3
14W	*	*	*
12W	*	*	*
10W	.5	.5	.7
8W	.2	.5	1.0
6W	1.0	1.0	.7
4W	.7	-.5	0.0
2W	.5	.7	.5
00	.5	.5	1.0
2E	.2	.5	0.0
4E	.2	.5	.5
6E	.5	.2	.7
8E	.5	1.0	.7
10E	.5	T.N.	.7
12E	.2	0.0	.7
14E	.7	.7	1.0
16E	.5	.5	1.0
18E	.7	1.0	.5
20E	.2	1.0	.7
22E	*	1.0	*
24E	*	*	*
26E	*	*	*

% FREQUENCY EFFECT

14W 12W 10W 8W 6W 4W 2W 00 2E 4E 6E 8E 10E 12E 14E 16E 18E 20E 22E 24E 26E
 * * * * *
 * * * * *

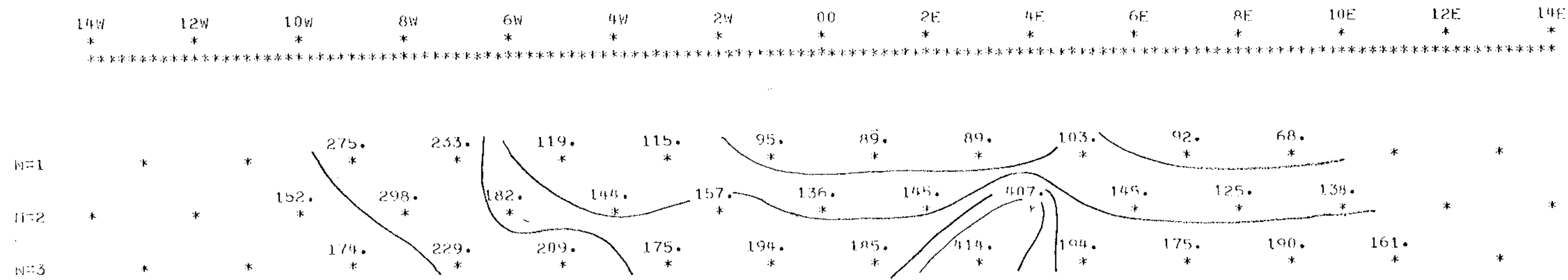
Station	N=1	N=2	N=3
14W	*	*	*
12W	*	*	*
10W	2.0	1.6	2.0
8W	.5	1.4	3.9
6W	1.5	3.3	1.6
4W	1.6	-.7	*
2W	1.9	1.8	.9
00	.5	1.1	3.3
2E	.7	1.1	*
4E	.7	1.4	1.4
6E	1.3	.6	3.1
8E	1.4	3.5	4.2
10E	3.2	*	1.9
12E	1.4	*	1.5
14E	4.0	1.8	6.7
16E	7.7	6.2	7.4
18E	4.4	9.6	4.2
20E	2.3	4.8	2.5
22E	*	9.1	*
24E	*	*	*
26E	*	*	*

METAL FACTOR

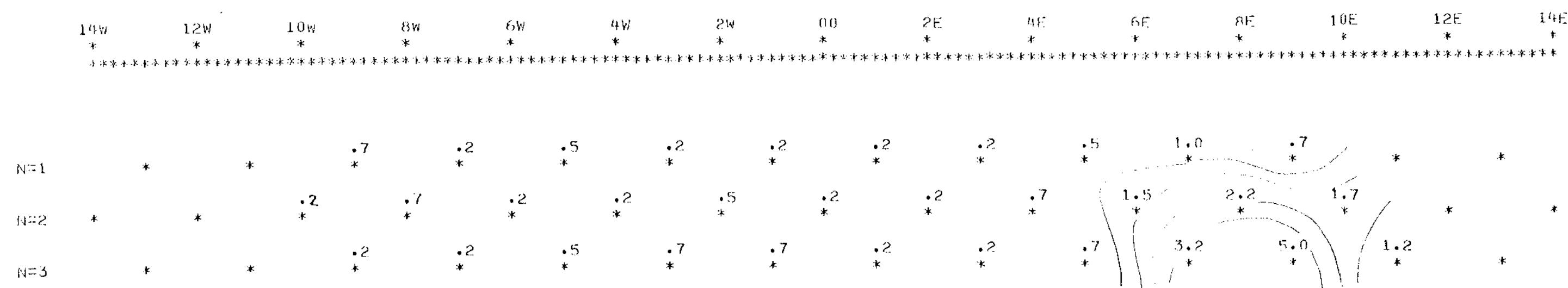
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 NO. 4228 MAP

CRAIGMONT EXPLORATIONS LTD.
 MONTANA MINES
 INDUCED POLARIZATION RESULTS
 0.3 + 5 Hz 1 INCH = 200 FT
 LINE 24 S

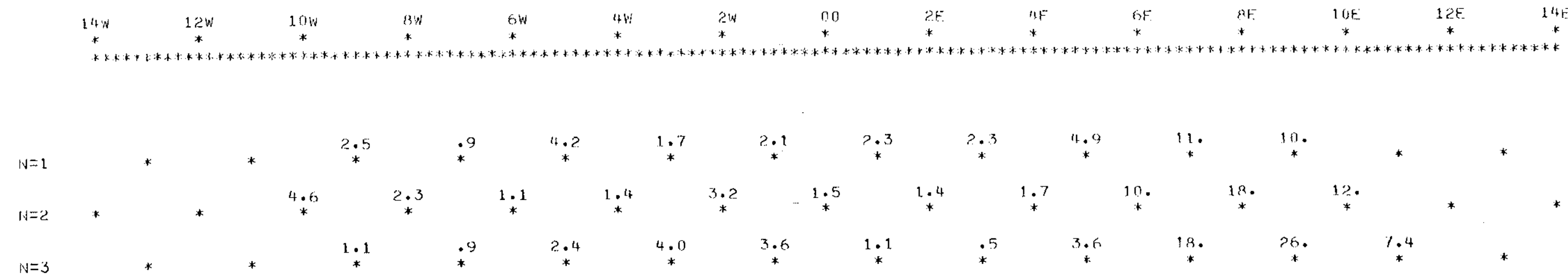




RESISTIVITY



% FREQUENCY EFFECT



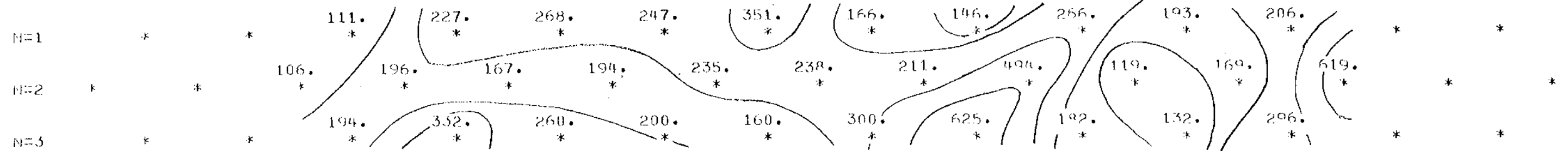
METAL FACTOR

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ASSESSMENT REPORT
NO. **4228** MAP

CRAIGMONT EXPLORATIONS LTD.
MONTANA MINES
INDUCED POLARIZATION RESULTS
0.3 + 5 HZ 1 INCH = 200FT
LINE 16 S

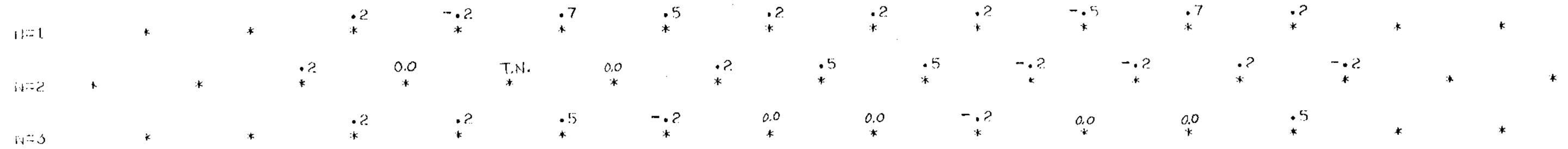


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 * * * * *
 * * * * *



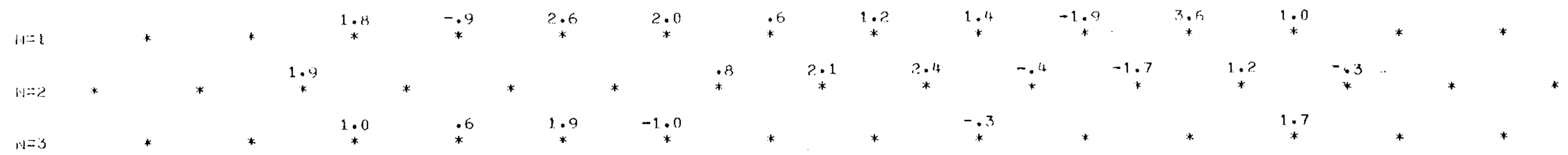
RESISTIVITY

14W 12W 10W 8W 6W 4W 2W 00 2E 4E 6E 8E 10E 12E 14E
 * * * * *
 * * * * *



% FREQUENCY EFFECT

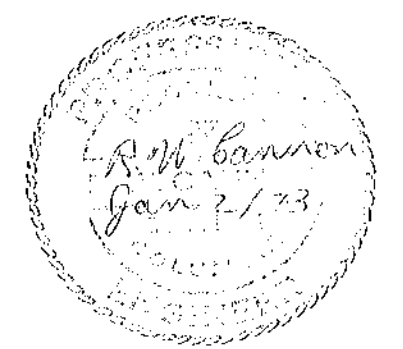
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 * * * * *
 * * * * *



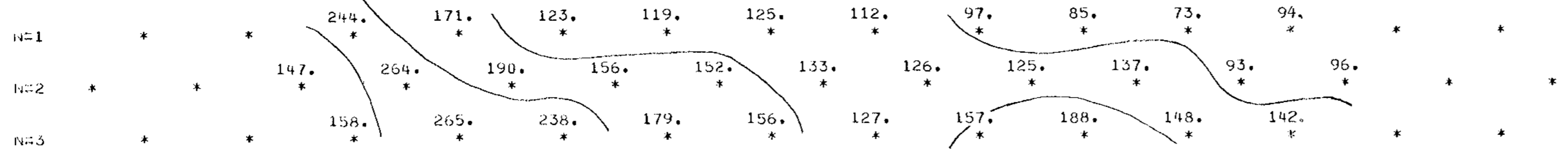
METAL FACTOR

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CRAIGHTON EXPLORATIONS LTD.
 MONTANA MINES
 INDUCED POLARIZATION RESULTS
 0.3 + 5 HZ 1 INCH = 200 FT
 LINE 20 S

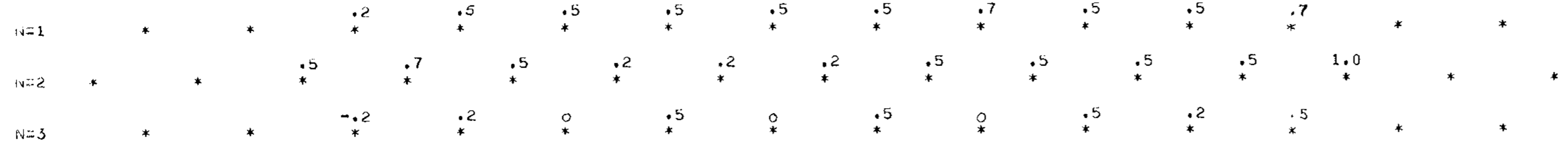


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 * * * * *



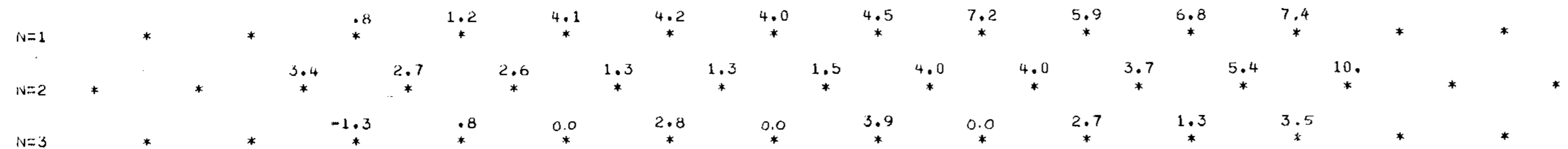
RESISTIVITY

14W 12W 10W 8W 6W 4W 2W 00 2E 4E 6E 8E 10E 12E 14E
 * * * * *



% FREQUENCY EFFECT

14W 12W 10W 8W 6W 4W 2W 00 2E 4E 6E 8E 10E 12E 14E
 * * * * *



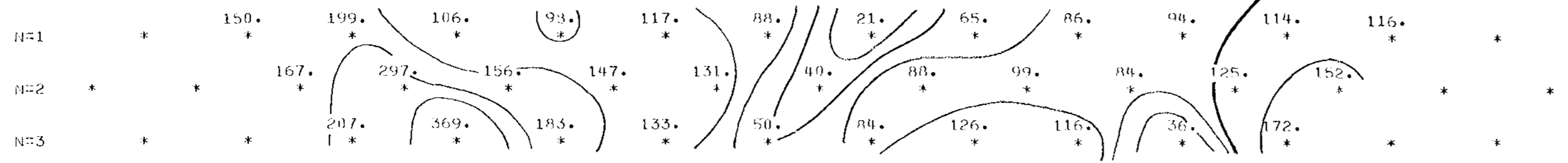
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CRAIGMONT EXPLORATIONS LTD.
 MONTANA MINES
 INDUCED POLARIZATION RESULTS
 0.3 + 5 HZ 1 INCH= 200FT
 LINE 12 S

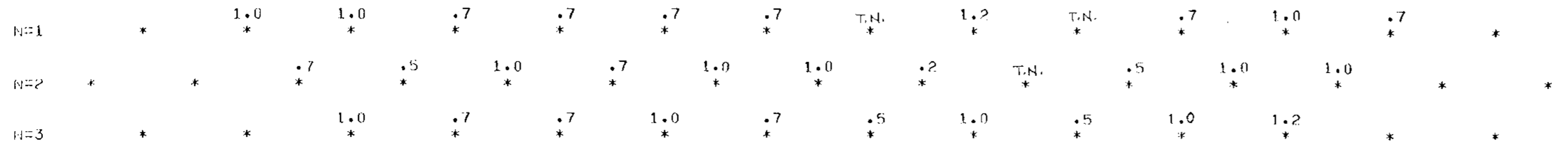


14W 12W 10W 8W 6W 4W 2W 00 2E 4E 6E 8E 10E 12E 14E
 * * * * *



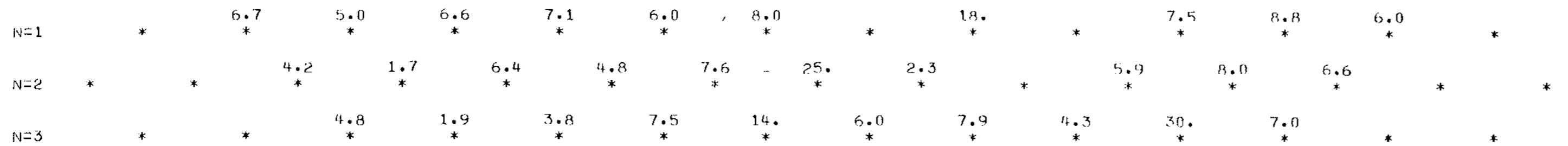
RESISTIVITY

14W 12W 10W 8W 6W 4W 2W 00 2E 4E 6E 8E 10E 12E 14E
 * * * * *



% FREQUENCY EFFECT

14W 12W 10W 8W 6W 4W 2W 00 2E 4E 6E 8E 10E 12E 14E
 * * * * *



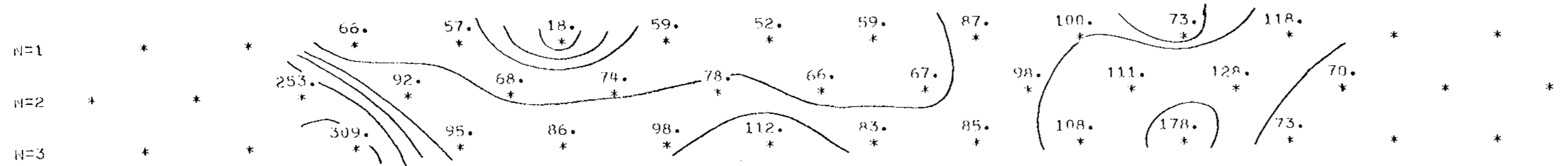
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 No. 4228 MAP

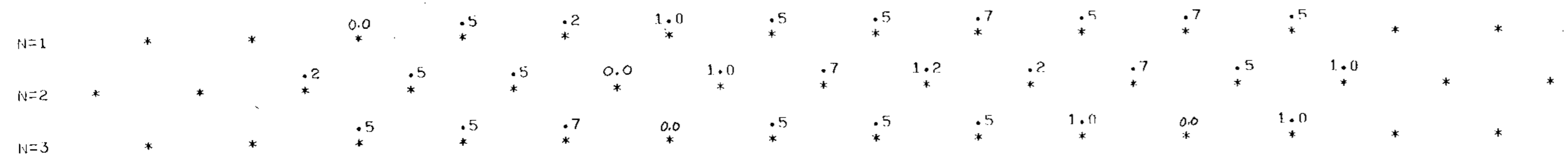
CRAIGMONT EXPLORATIONS LTD.
 MONTANA MINES
 INDUCED POLARIZATION RESULTS
 0.3 + 5 HZ 1 INCH = 200 FT
 LINE 8 S



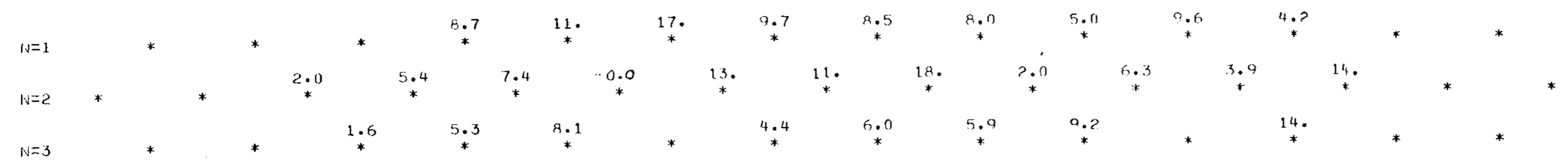
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 * * * * *



14W 12W 10W 8W 6W 4W 2W 00 2E 4E 6E 8E 10E 12E 14E
 * * * * *



14W 12W 10W 8W 6W 4W 2W 00 2E 4E 6E 8E 10E 12E 14E
 * * * * *

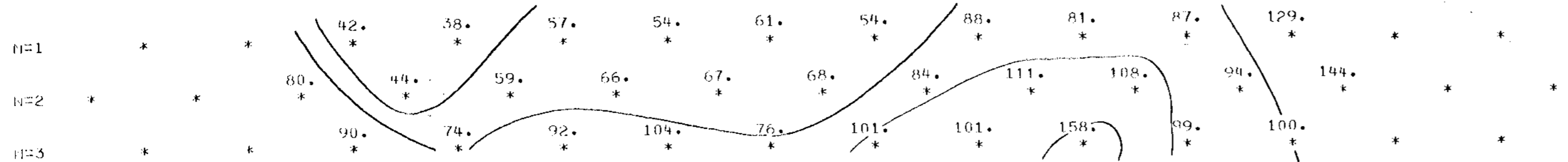


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CRAIGMONT EXPLORATIONS LTD.
 MONTANA MINES
 INDUCED POLARIZATION RESULTS
 0.3 + 5 HZ 1 INCH= 200FT
 LINE 4 S

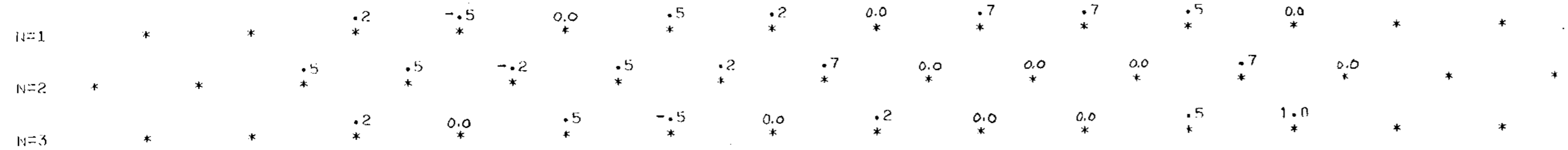


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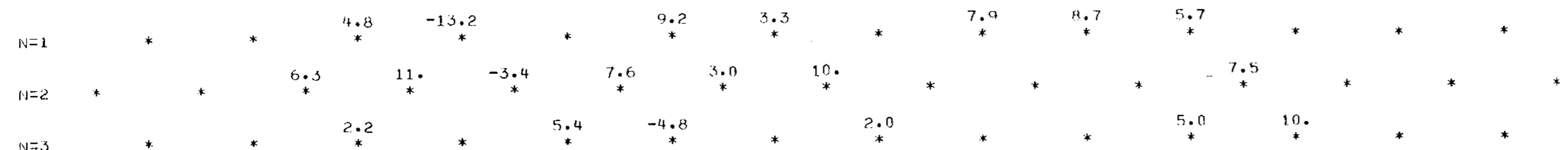
RESISTIVITY

14W 12W 10W 8W 6W 4W 2W 00 2E 4E 6E 8E 10E 12E 14E
 * * * * *



% FREQUENCY EFFECT

14W 12W 10W 8W 6W 4W 2W 00 2E 4E 6E 8E 10E 12E 14E
 * * * * *

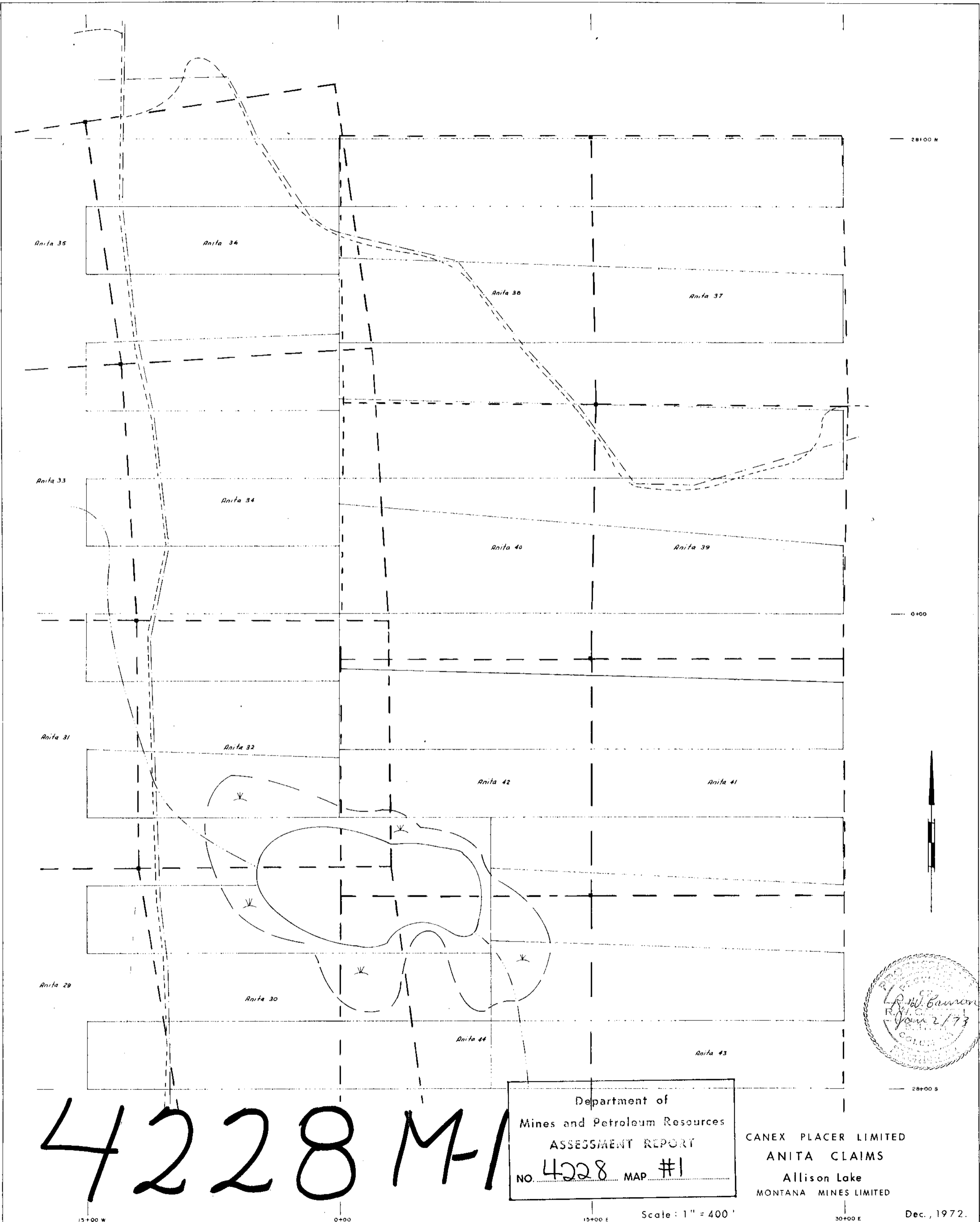


METAL FACTOR

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 NO. 4228 MAP

CRAIGHTON EXPLORATIONS LTD.
 MONTANA MINES
 INDUCED POLARIZATION RESULTS
 0.3 + 5 HZ 1 INCH = 200 FT
 LINE 0 S

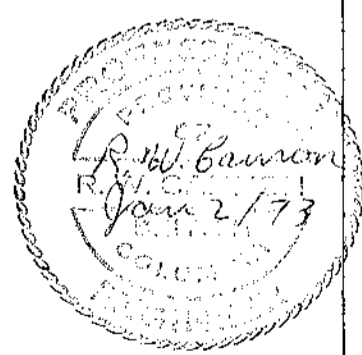




4228 M-1

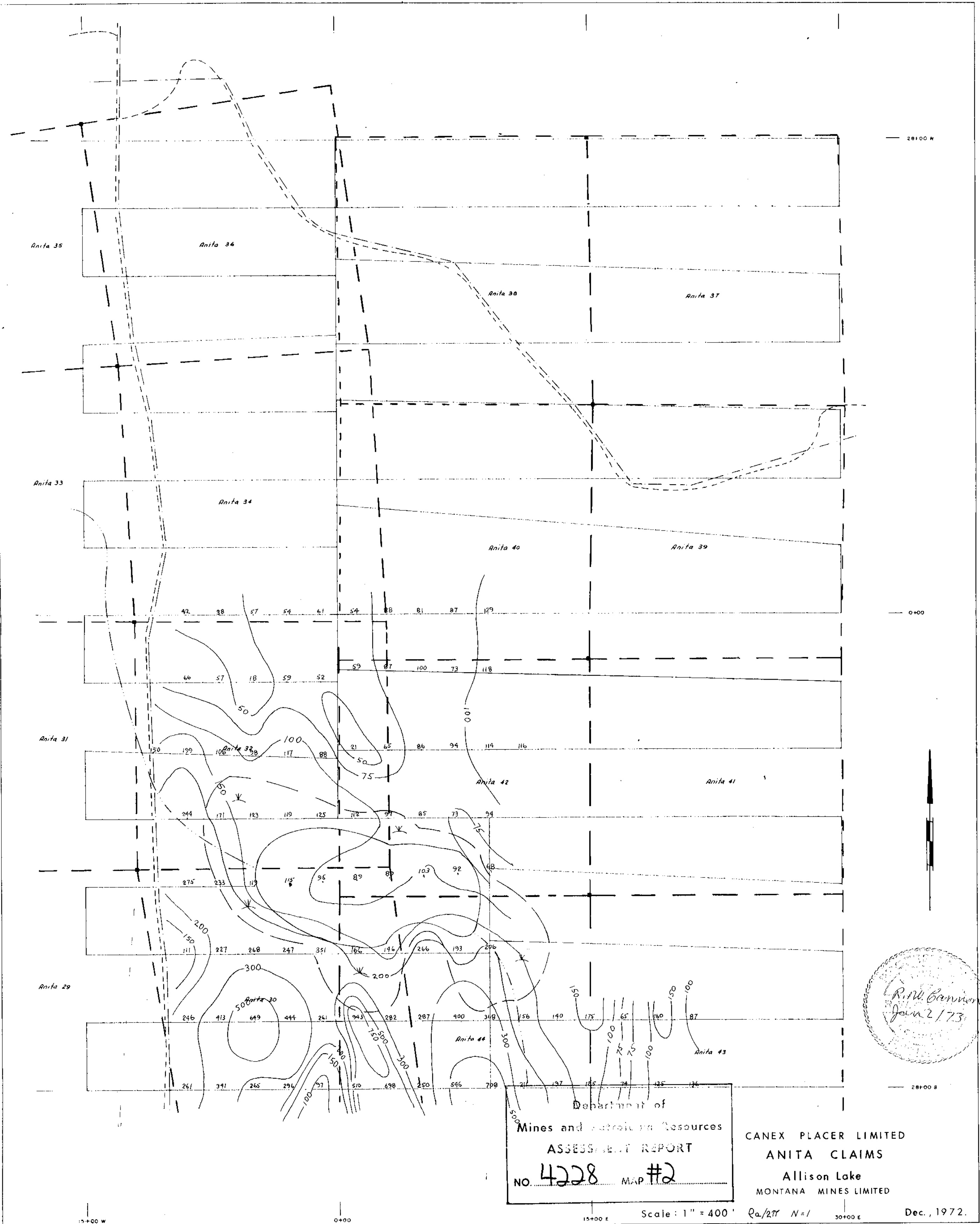
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 NO. 4228 MAP #1

CANEX PLACER LIMITED
 ANITA CLAIMS
 Allison Lake
 MONTANA MINES LIMITED



Scale: 1" = 400'

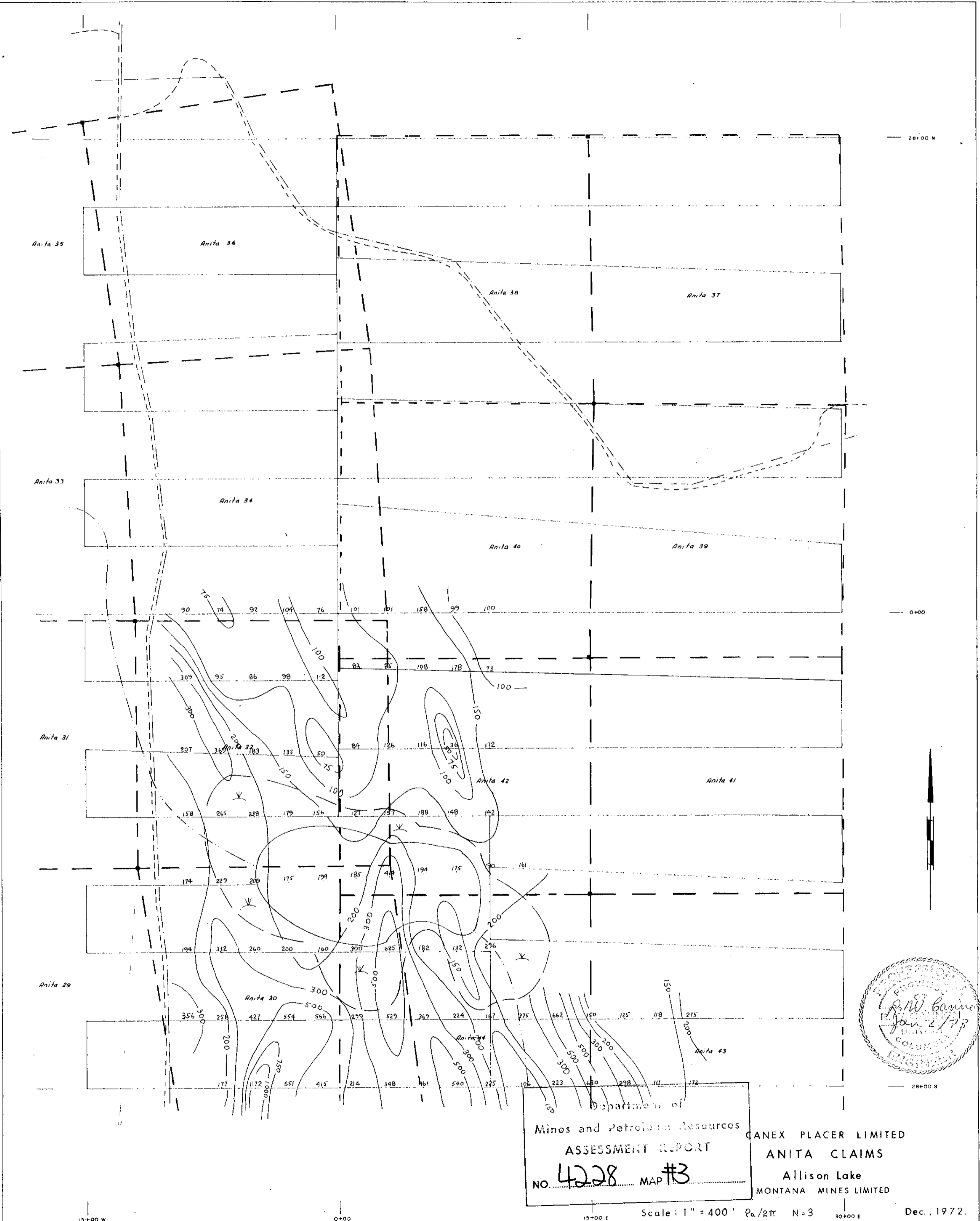
Dec., 1972.



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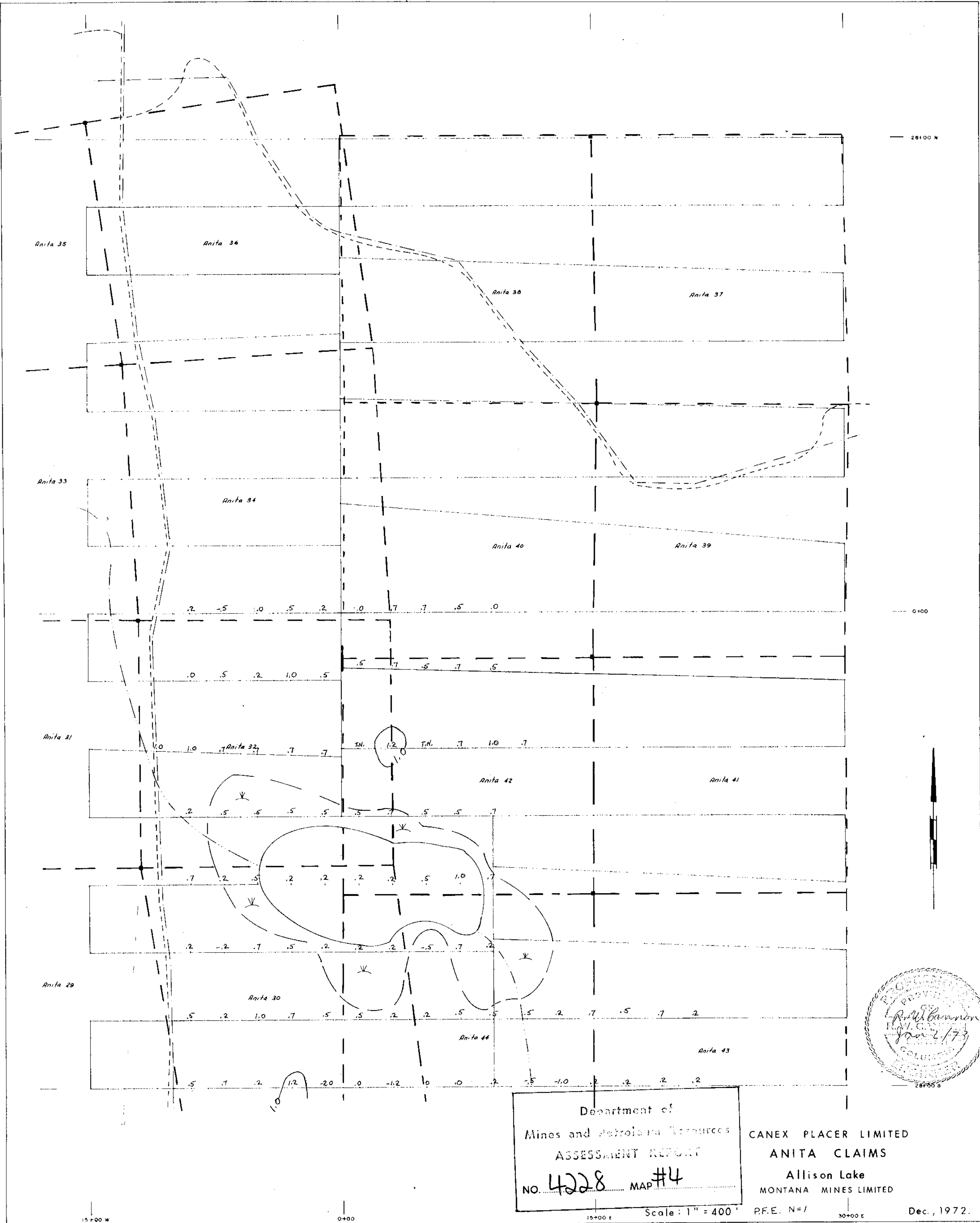
CANEX PLACER LIMITED
 ANITA CLAIMS
 Allison Lake
 MONTANA MINES LIMITED

R. W. Cannon
 Jan 2 1973



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 NO. 4228 MAP #3

CANEX PLACER LIMITED
 ANITA CLAIMS
 Allison Lake
 MONTANA MINES LIMITED

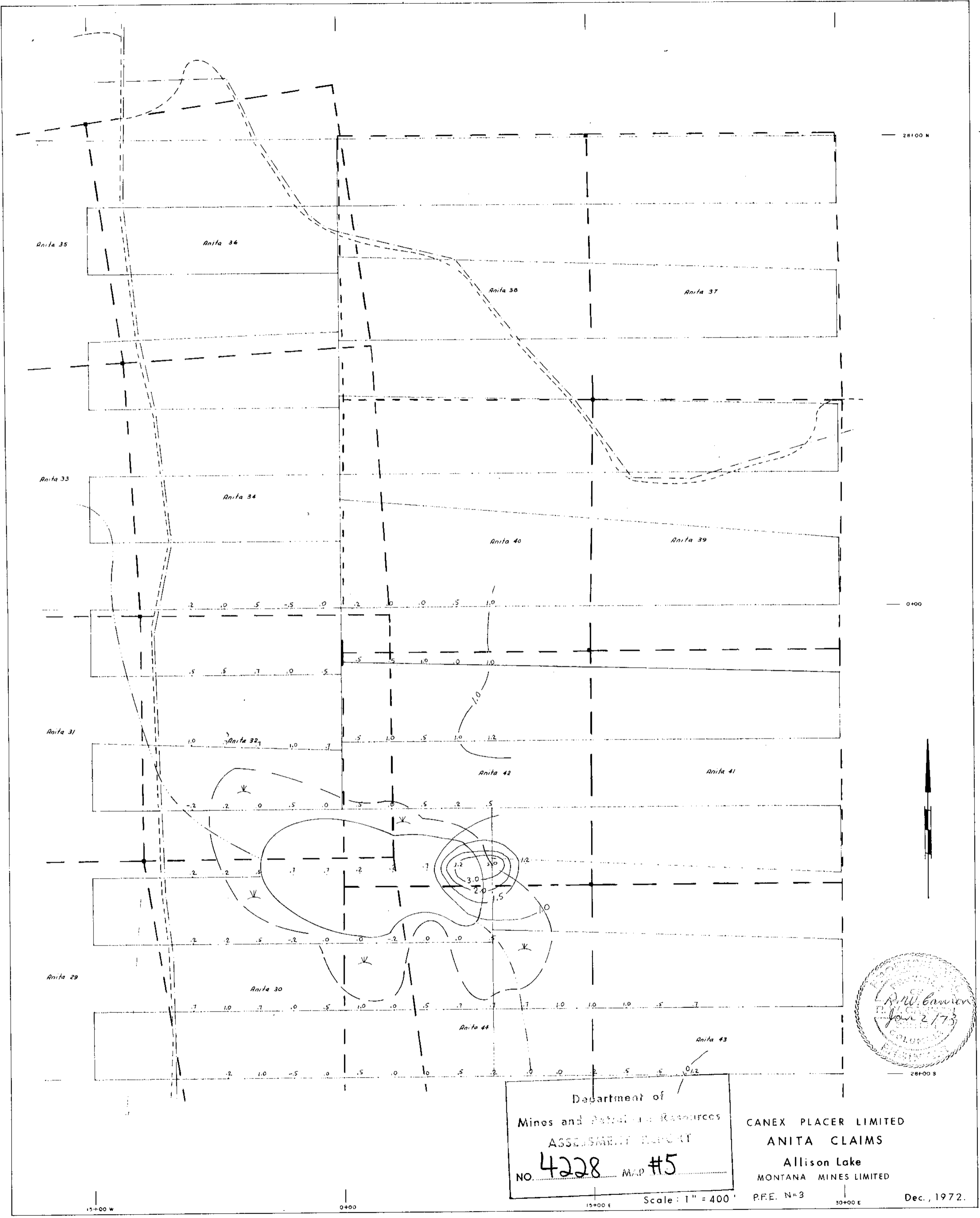


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CANEX PLACER LIMITED
 ANITA CLAIMS
 Allison Lake
 MONTANA MINES LIMITED
 P.F.E. N=1



Dec., 1972.



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 NO. 4228 MAP #5

CANEX PLACER LIMITED
 ANITA CLAIMS
 Allison Lake
 MONTANA MINES LIMITED
 P.F.E. N=3

Dec., 1972.

