

**1710**

**CANEX AERIAL EXPLORATION LTD.**

DIVISION OF CANADIAN EXPLORATION LIMITED

700 BURRARD BUILDING

VANCOUVER 5, B. C. CANADA

**GEOPHYSICAL REPORT**

**INDUCED POLARIZATION AND RESISTIVITY SURVEY**

FOR KEL-GLEN MINES LTD. (K.G.L.)

HIGHLAND VALLEY,  $50^{\circ} 32'$ ,  $121^{\circ} 07'$

CLAIMS DIA 1-3, DIA 7-10, PEARL 1-10, PEARL PT. #1,  
T.E. Pt#1-2, VERA 1-19, VERA 20PT, VERA 21-23

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

SEPTEMBER AND OCTOBER, 1968

**BREAKDOWN OF EXPENDITURES**  
**ON KEL-GLEN MINES LTD. (N.P.L.)**

**INDUCED POLARIZATION SURVEY**

I.P. Equipment rental and 2 operators	\$ 4,600.00
wages 23 days @ \$200/day	

Days worked by operators  $23 \times 2 = 46$  man days

Days worked by helpers.

B. McIntosh	16
P. Burdoin	3
G. Hart	20
J. Garnett	9
Total Man Days	48

Helpers' wages @ \$25/day - 48 x \$25.00	1,200.00
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Camp cost for helpers and operators \$8.00/day/man - 94 x \$8.00	752.00
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Compensation, administration, supervision \$5.00/day/man - 94 x \$5.00	470.00
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<b>TOTAL COSTS OF I.P. SURVEY</b>	<b>\$ 7,022.00</b>
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Declared before me at the City  
 of Vancouver, in the  
 Province of British Columbia, this 21<sup>st</sup>  
 day of November, 1968 A.D.

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

R. W. Cannon, P. Eng.

*J. Paul* Sub-mining Recorder

A Company incorporated and registered in British Columbia or  
 Province of British Columbia

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I.P. Sections	Appendix
Base Map of I.P. Grid	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  $X = 300'$ .

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 were plotted above the line and the percent frequency effect and metal factors below. 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, 5, 7.5, and 10.

REPORT ON THE INDUCED POLARIZATION  
AND RESISTIVITY SURVEY  
HIGHLAND VALLEY AREA, B. C.  
KEL-GLEN MINES LIMITED (N.P.L.)

INTRODUCTION

An extensive induced polarization and resistivity survey was carried out on the Kel-Glen property in the Highland Valley area of British Columbia during the months of September and October, 1968.

This survey covered approximately 45 claims and fractions along 20.3 miles of cut lines. The lines had been cut east-west on 800 foot intervals with stations marked every 100 feet.

The Induced Polarization survey was carried out using McPhar frequency effect equipment (Model P654) employing frequencies of 0.31 and 5.0 cycles per second.

LOCATION AND ACCESS

The property is located 15 miles southeast of Ashcroft and can be reached by 18 miles of paved road from Ashcroft. The claims are centered around the Owen's ranch and are traversed in the middle by the road to Bethlehem Copper.

PROPERTY

The property consists of 45 claims recorded as follows:

<u>CLAIM NAME</u>	<u>TAG NO.</u>	<u>RECORD NO.</u>	<u>EXPIRY DATE</u>
Dia 1-2	836329/30		Sept. 21/69
3-4	836332/33		"
5	836338		"
7	836335	66067/75	"
8	836334		"
9	836337		"
10	836336		"
Pearl 1-10	836319/28	66076/85	"
Pearl Fr#1	836331	66086	"

<u>CLAIM NAME</u>	<u>TAG NO.</u>	<u>RECORD NO.</u>	<u>EXPIRY DATE</u>
Te Fr#1	712644	66767	Oct. 27/69
Te Fr#2	712643	66768	"
Vera 1-2	479249/50	{ 67304/23	Nov. 30/69
3-17	479251/65		Nov. 30/68
18	479267		"
19	479266		"
20Fr	479269		"
21-23	88875/53	69094/96	May 17/69

PREVIOUS WORK

The previous work consisted of cutting E-W lines with stations chained in at 100 foot intervals. These lines were spaced 800 feet apart. Limited geophysics consisting of an E.M.-16 survey was carried out along with a minor geochem survey.

PRESNTATION 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. All lines were run using an electrode spread of 300 feet and dipole separations of N = 1, 2, and 3.

DISCUSSION OF RESULTS

A series of 24 traverses of varying length were run in the survey area. No anomalies were detected on the claim groups. Some minor variations in resistivity and frequency effect were found to occur on the property. These were caused largely by variation in overburden depth and by ground water content of the overburden.

CONCLUSIONS AND RECOMMENDATIONS

It was concluded that no significant anomalies were detected in the survey area. I recommend that no further work be carried out on the property.

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

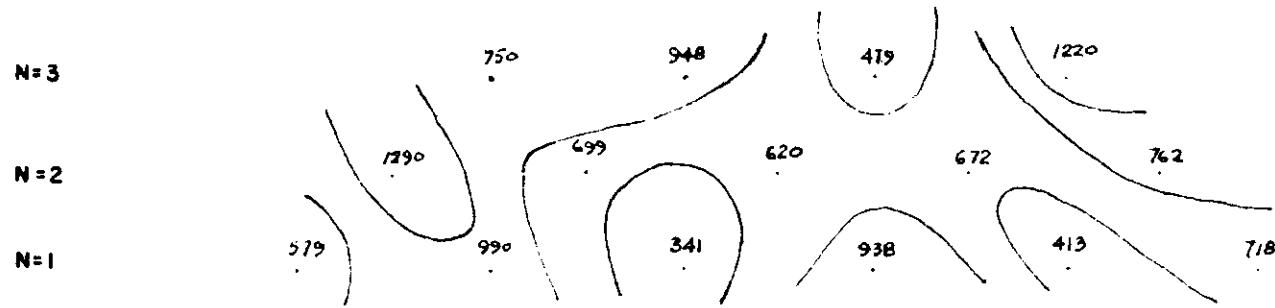
RWC/slP/680836

QUALIFICATIONS

1. I, Richard W. Cannon, am a graduate of the University of B. C. (1966) with a degree in Geological Engineering (Geophysics Option).
2. I have worked continuously in mining exploration since graduation.
3. I am currently registered as a professional engineer in the Province of British Columbia.

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

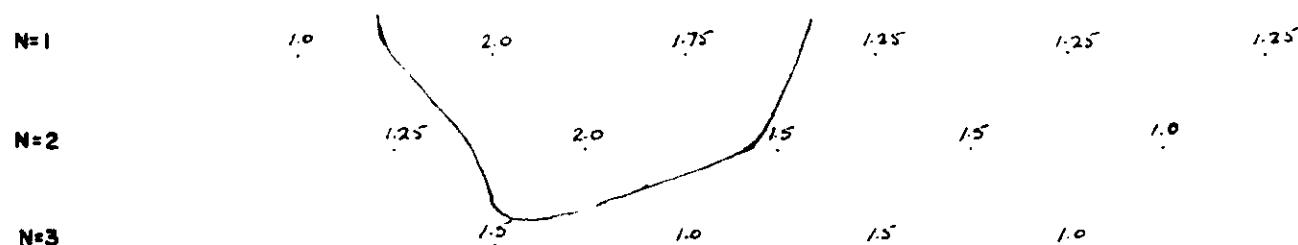
R. W. Cannon, P. Eng.



$$ea/2\pi$$

**169 W      168 W      163 W      160 W      157 W      154 W      151 W      148 W      145 W**      **KEL-GLEN MINES LTD.**

**LINE 32+00 S**



## DIPOLE-DIPOLE CONFIGURATION

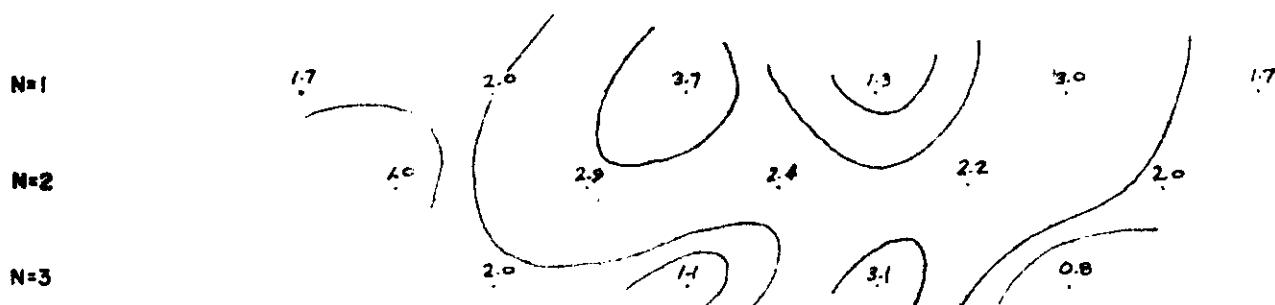
P.F.E. FREQUENCIES 0.31 + 5.0 cps.

$$x = 300^\circ$$

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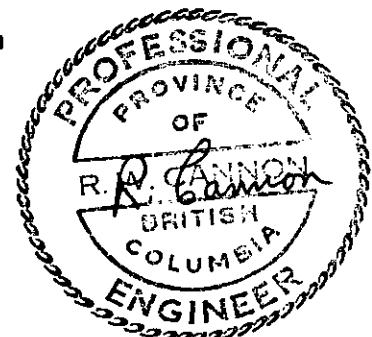
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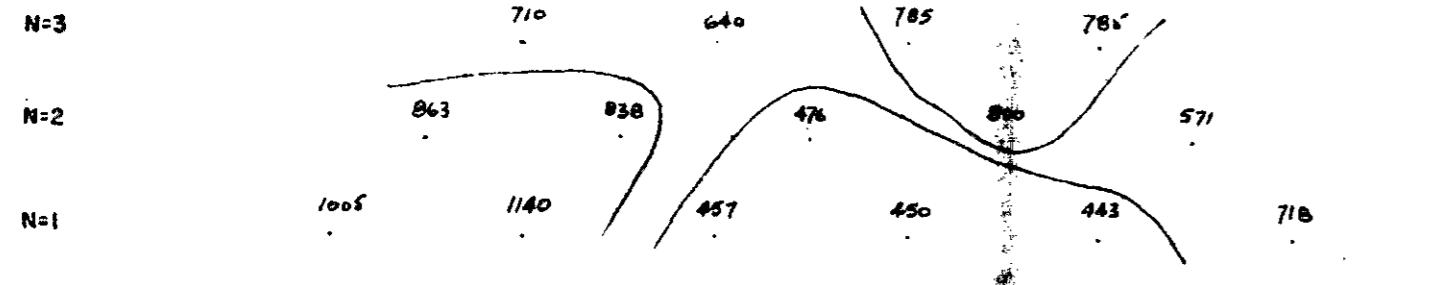
DRAWN BY J. THORNTON DATE : OCT. 1968



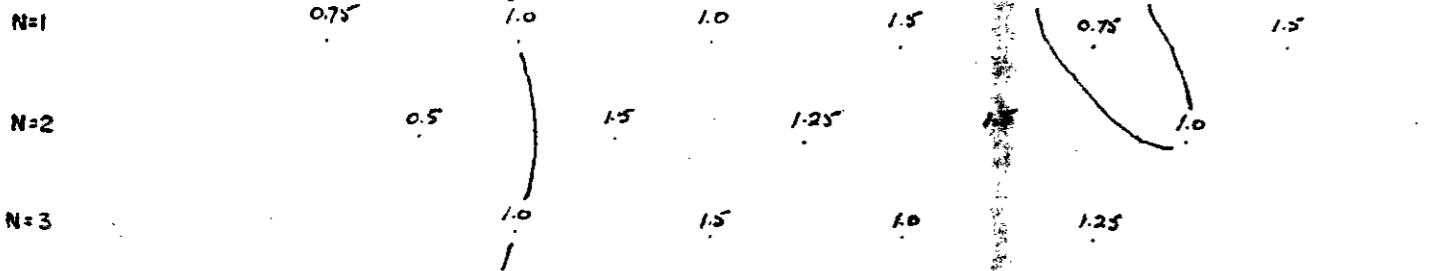
(M.F.)<sup>o</sup>

1710 Log 81



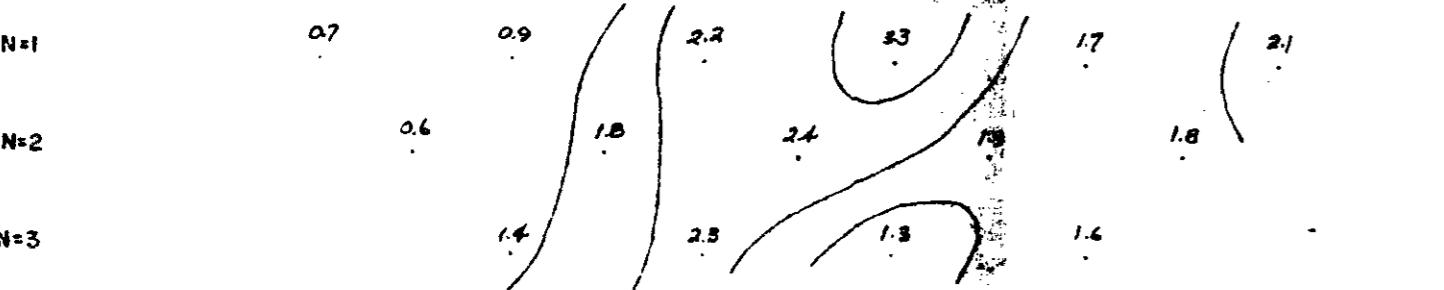


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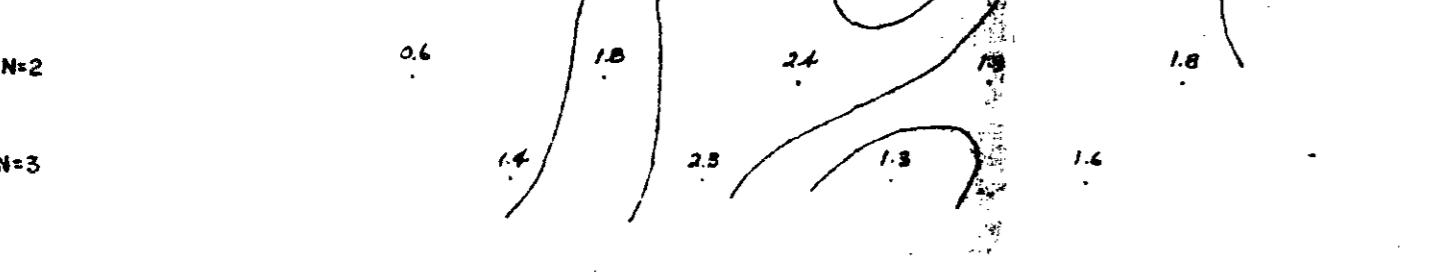


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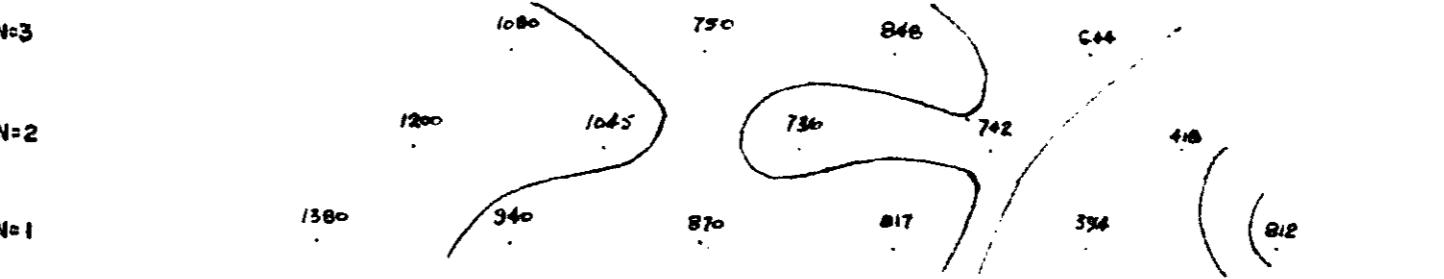
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169W 166W 163W 160W 157W 154W 151W 148W 145W

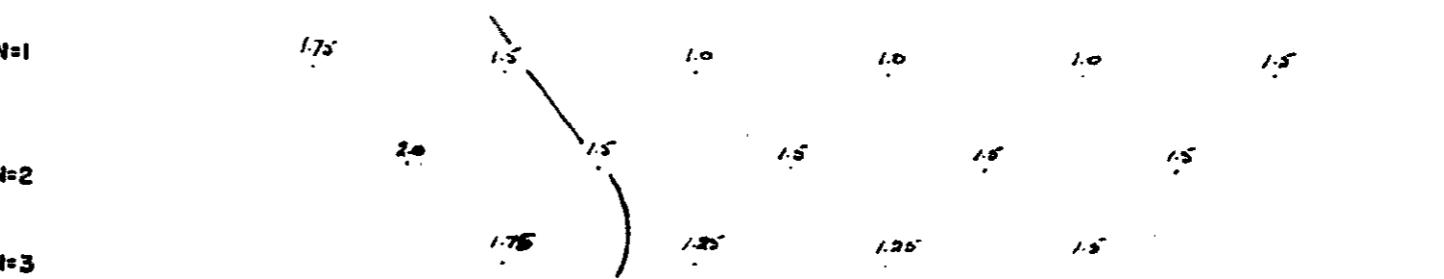


169W 166W 163W 160W 157W 154W 151W 148W 145W



169W 166W 163W 160W 157W 154W 151W 148W 145W

KEL-GLEN MINES LTD.



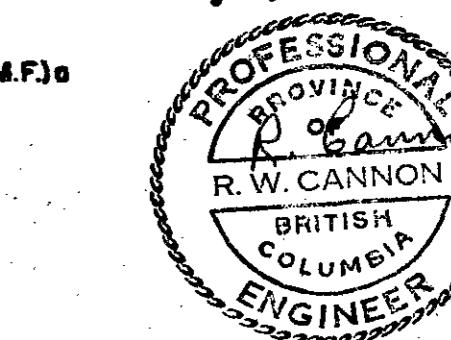
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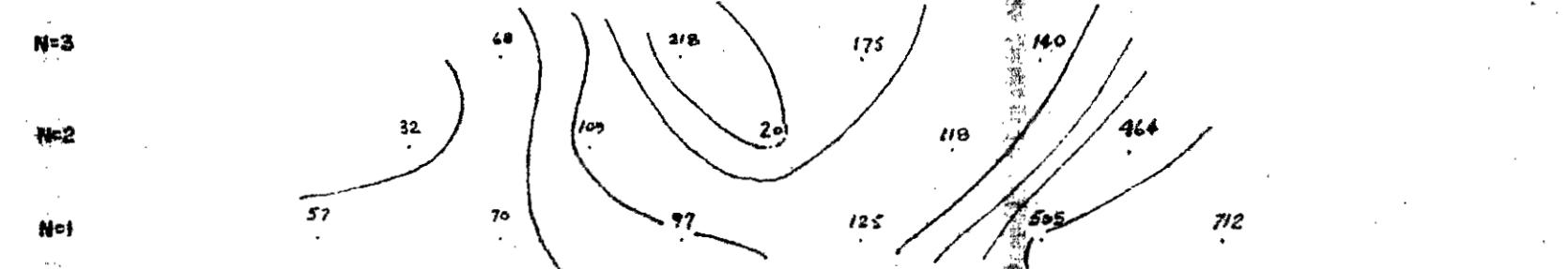
169W 166W 163W 160W 157W 154W 151W 148W 145W

CANEX AERIAL EXPLORATION LTD.

DRAWN BY J. THORNTON DATE: OCT. 1968

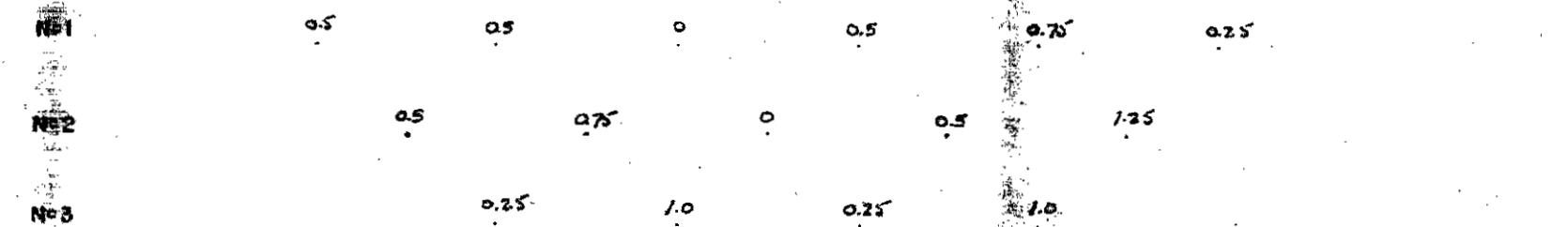
1710 LOG 02



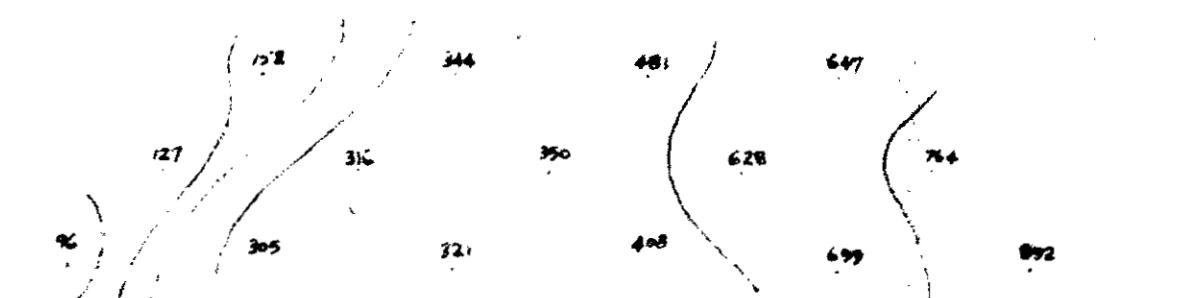


169W 166W 163W 160W 157W 154W 151W 148W 145W

### LINE 0+00



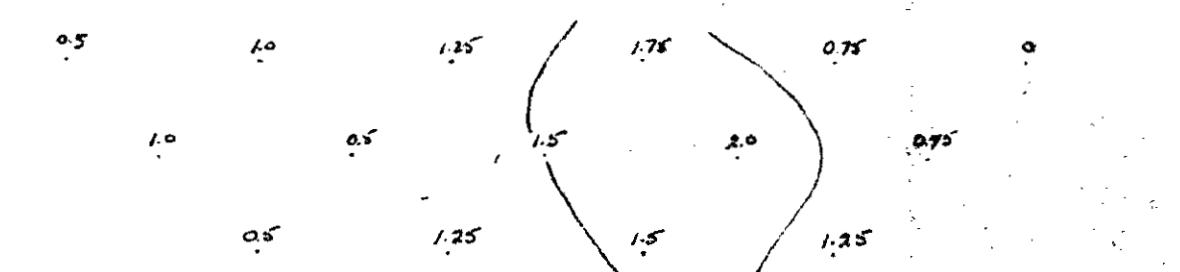
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169W 166W 163W 160W 157W 154W 151W 148W 145W

KEL-GLEN MINES LTD.

### LINE 8+00 S



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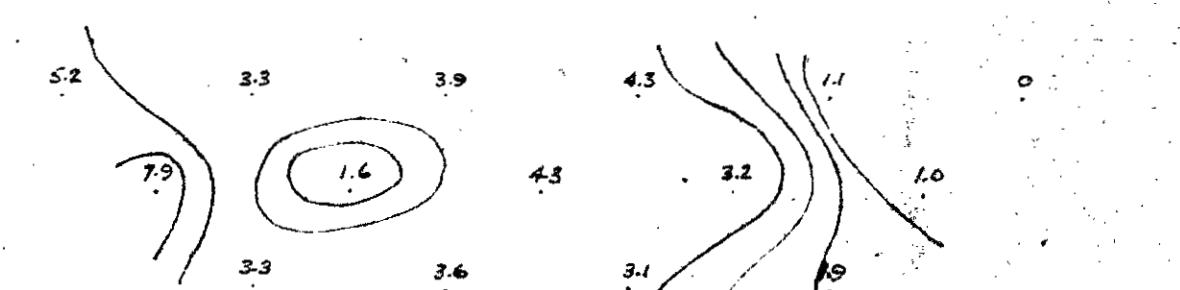
PEE FREQUENCIES 0.31 + 5.0 cps.

X = 300'

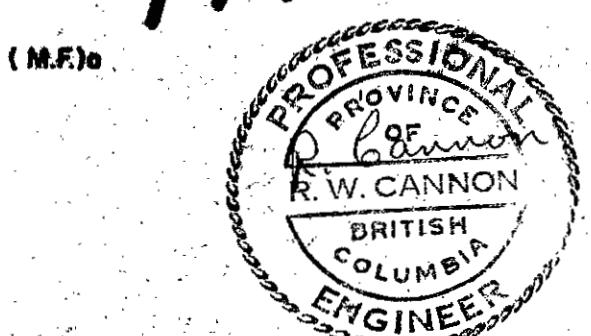
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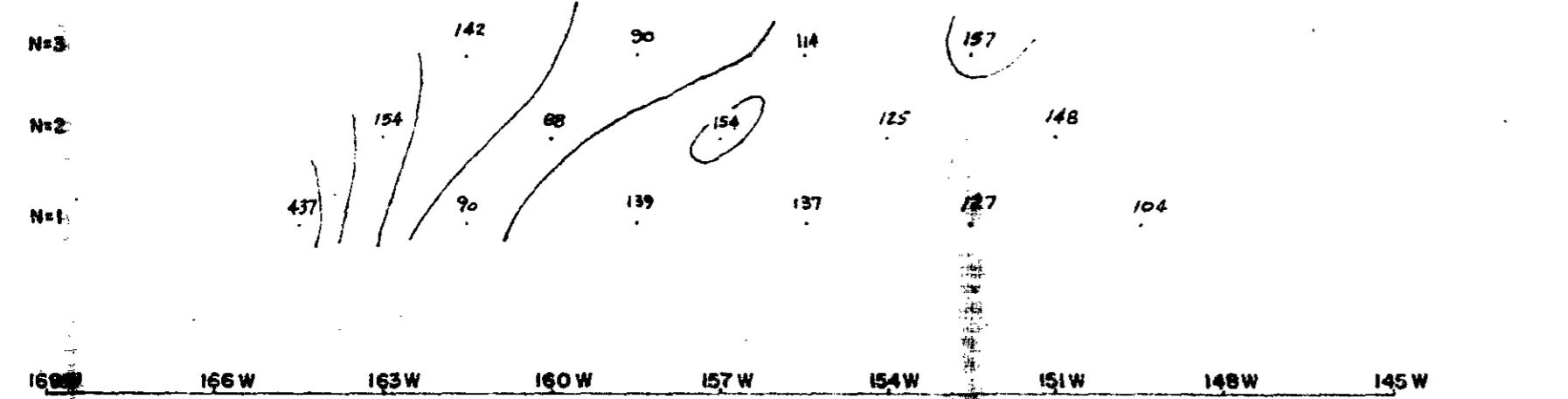
CANEX AERIAL EXPLORATION LTD.

DRAWN BY J. THORNTON DATE: OCT. 1968

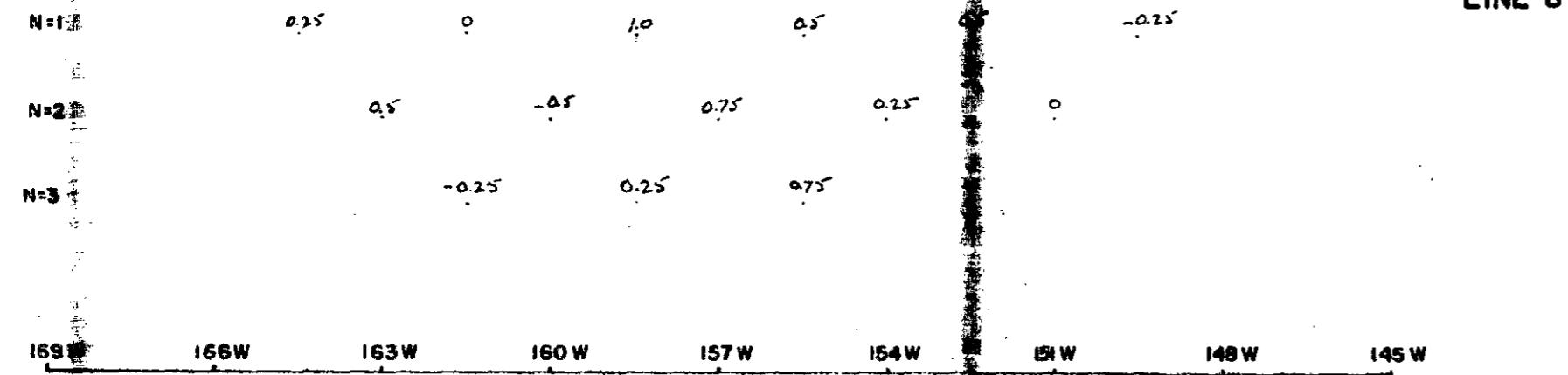


1710 LOG 03

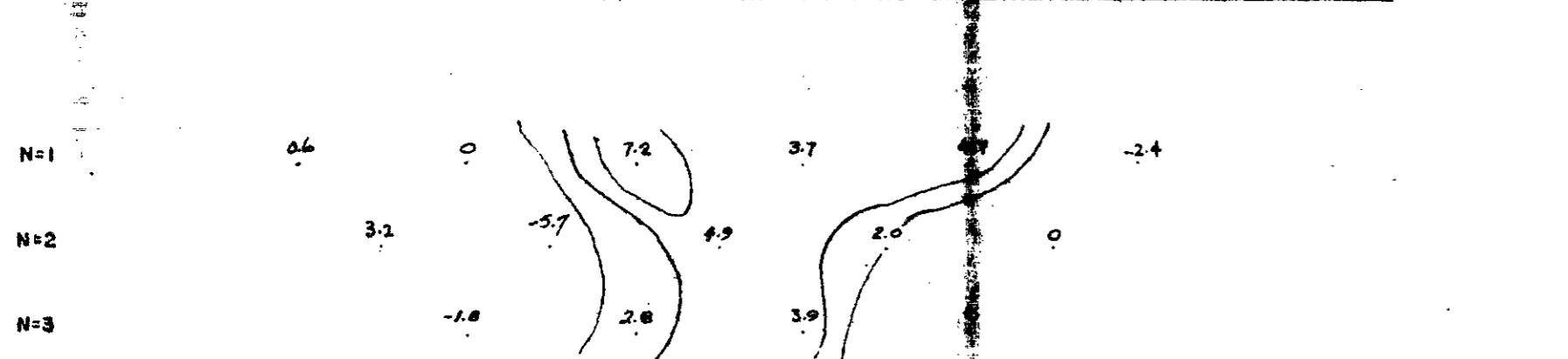




LINE 8+00 N

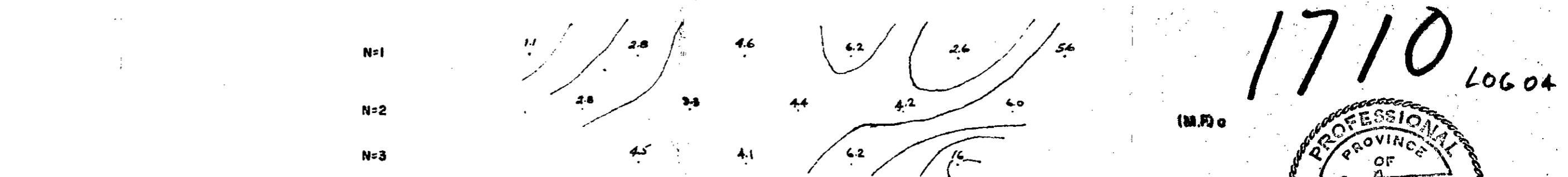
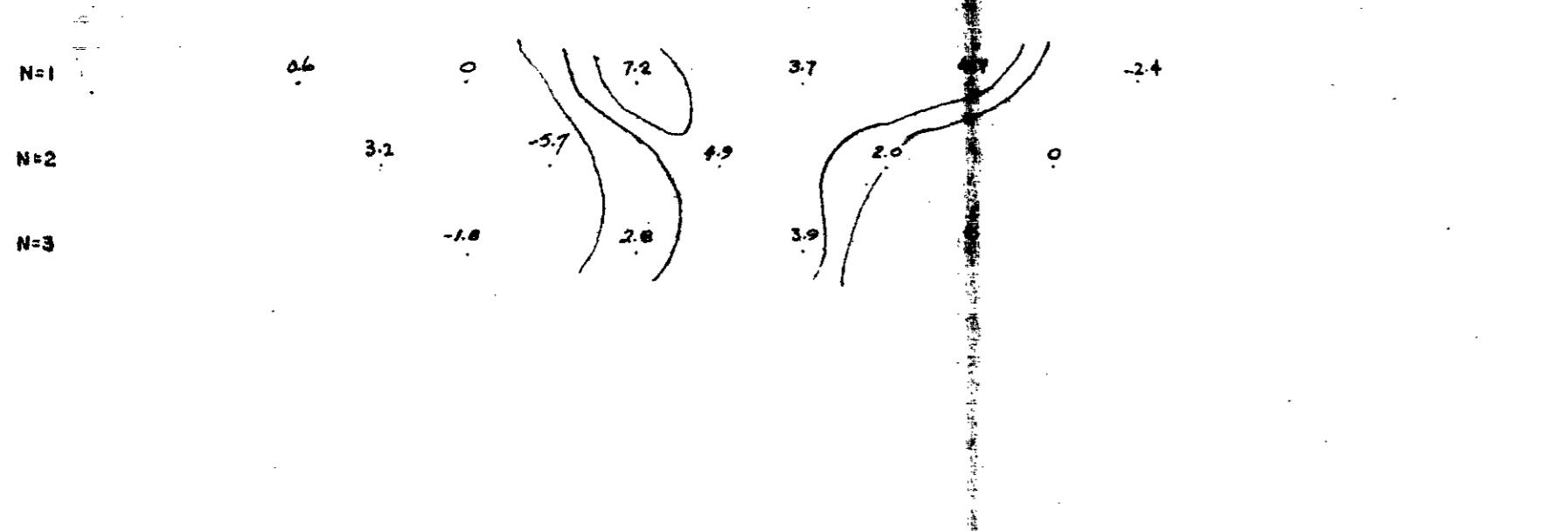


LINE 16+00 N



CANEX AERIAL EXPLORATION LTD.

DRAWN BY J. THORNTON DATE: OCT 1968

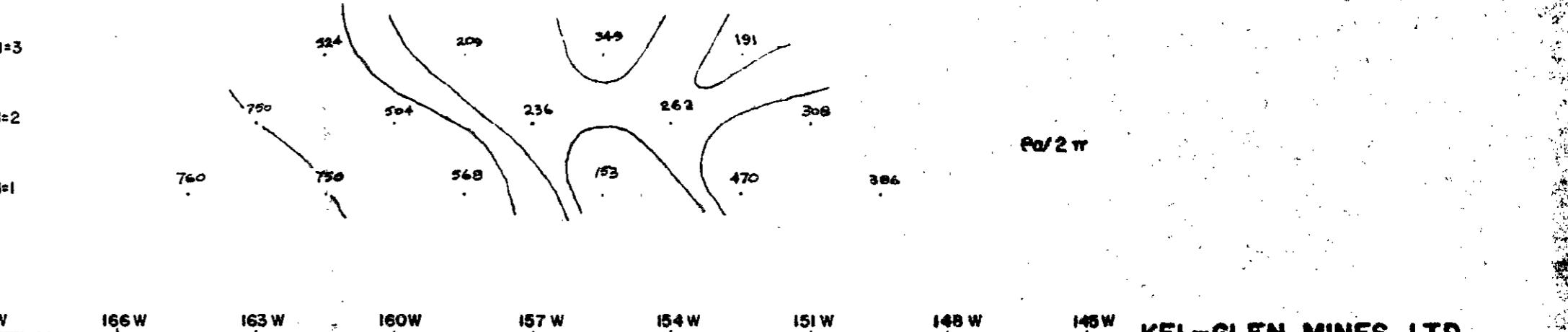
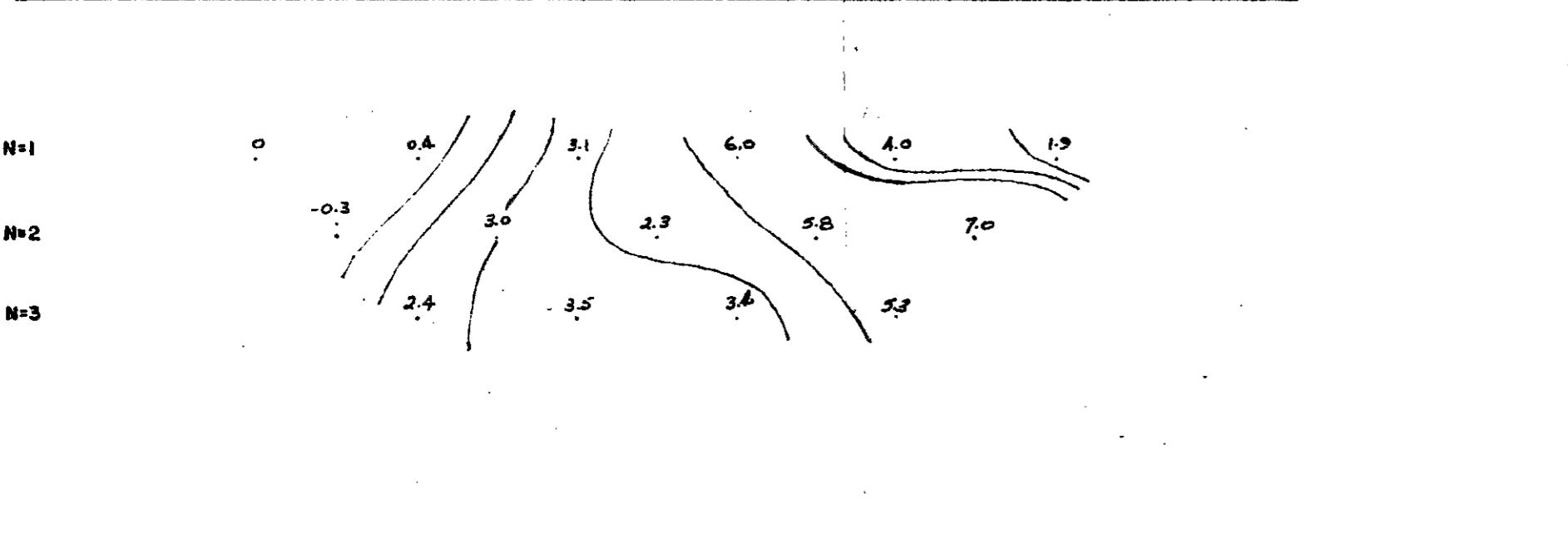
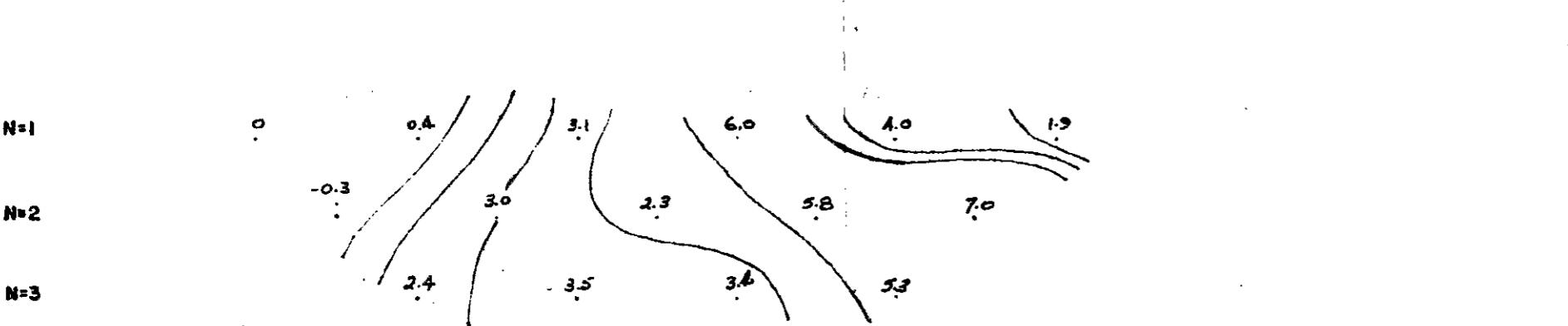
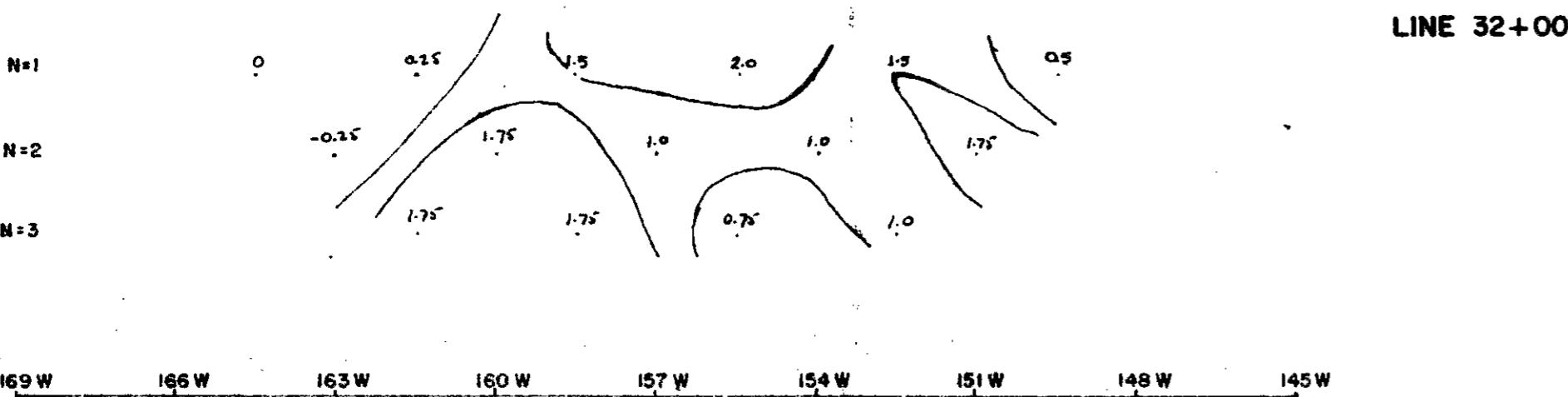
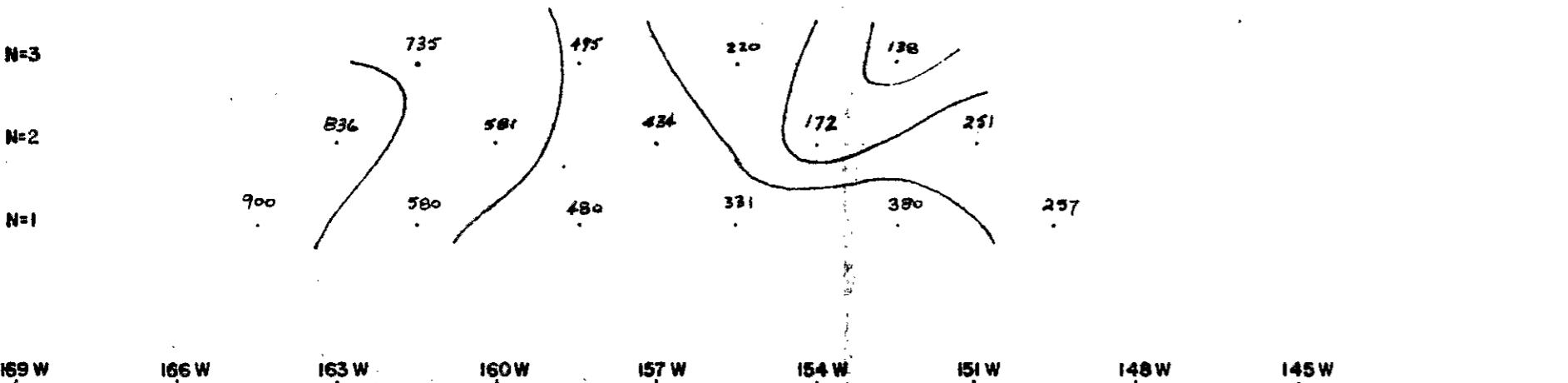


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LOG 04

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~~145W~~ KEL-GLEN MINES LTD.

**LINE 24+00 E**

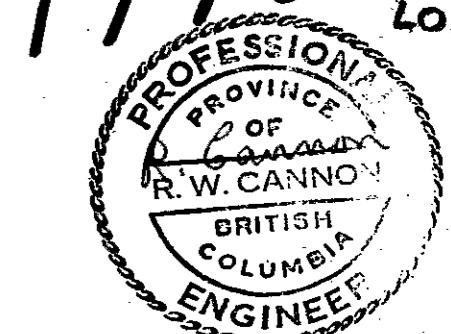
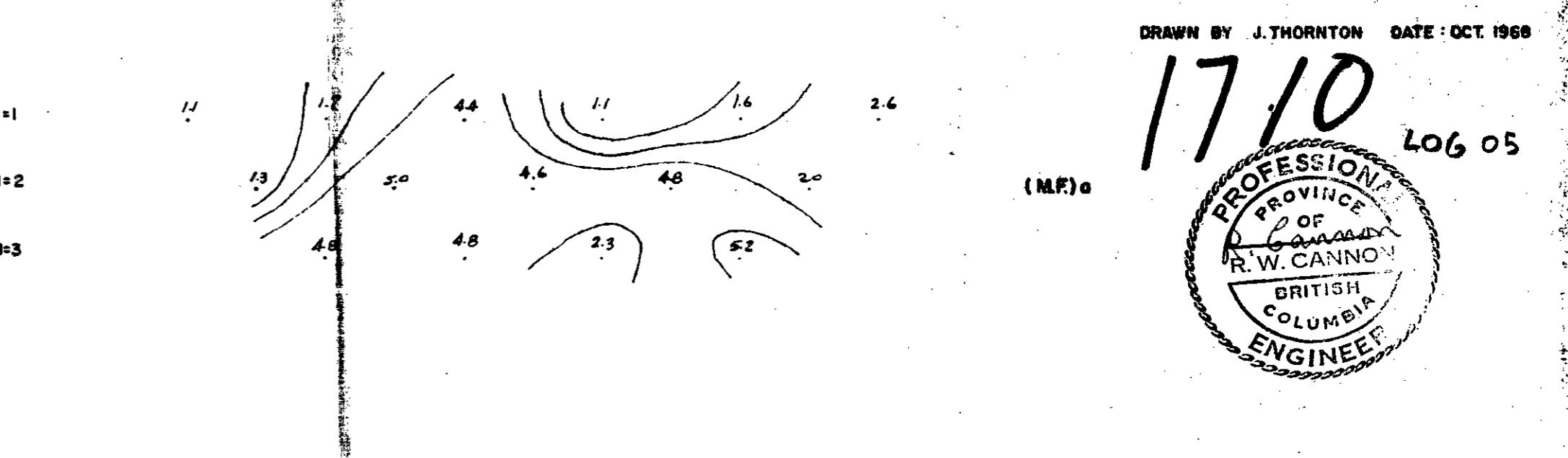
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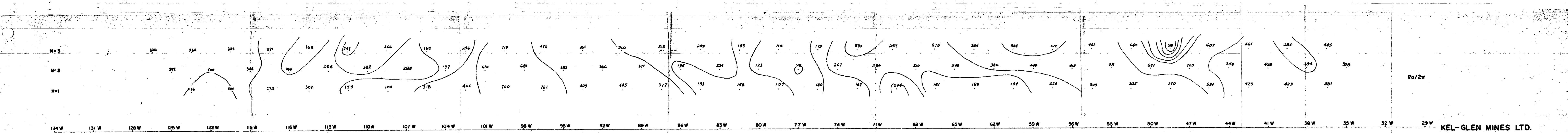
**FREQUENCIES**     $0.31 + 5.0$  cps.

**X = 300°**

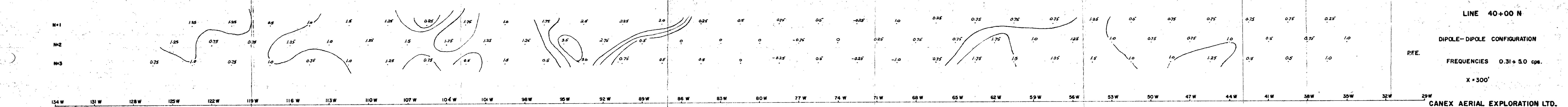
**CANEX AERIAL EXPLORATION LTD.**

DRAWN BY J. THORNTON DATE : OCT. 1968

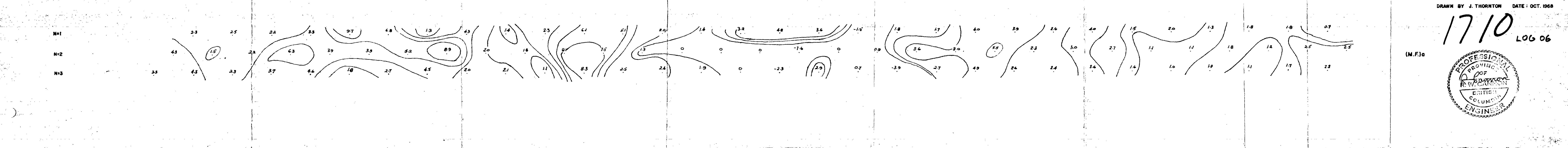


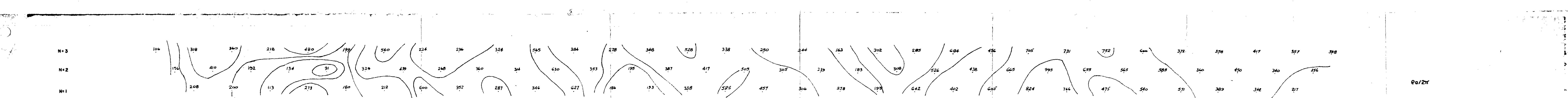


00/2n



LINE 40+00 N





8a/2r

KEL-GLEN MINES LTD.

134W 131W 128W 125W 122W 119W 116W 113W 110W 107W 104W 101W 98W 95W 92W 89W 86W 83W 80W 77W 74W 71W 68W 65W 62W 59W 56W 53W 50W 47W 44W 41W 38W 35W 32W 29W 26W

LINE 48+00 N

N=1	1.5	0.75	1.25	1.25	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0	1.5	1.0	0	0.5	-0.25	0.5	0.5	1.5	1.0	1.25	0.75	1.0	0.75	1.25	2.0
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DIPOLE-DIPOLE CONFIGURATION

N=2	0.25	0.75	0.5	1.25	0.75	0.5	0.5	0.25	0.25	0.5	1.0	0.75	0.5	0.5	1.5	0.75	0.75	0.5	0.25	0.5	0.5	1.0	0.75	1.25	0.75	1.0	1.25	1.5	1.5	2.25
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P.F.E.

N=3	0.75	0.75	0.75	0.75	0.5	0.25	0.25	0.25	1.0	0.75	0.75	0.5	1.0	-1.0	0.5	0	0.75	1.5	-0.25	1.0	0.75	0.75	1.25	1.0	1.5	1.5	0.25	1.25	2.0
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FREQUENCIES 0.31+5.0 cps.

X = 300'

134W 131W 128W 125W 122W 119W 116W 113W 110W 107W 104W 101W 98W 95W 92W 89W 86W 83W 80W 77W 74W 71W 68W 65W 62W 59W 56W 53W 50W 47W 44W 41W 38W 35W 32W 29W 26W

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N=1	7.2	3.7	11	4.6	4.2	3.5	0	1.4	4.4	1.4	1.2	0	7.6	3.0	0.9	1.0	-0.8	1.0	2.6	2.3	1.2	1.2	0.9	1.6	1.6	1.3	3.7	9.2
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N=2	1.6	1.8	2.6	9.3	8.7	1.4	1.5	1.6	0.9	0.7	1.6	1.3	2.1	4.5	1.8	1.5	1.6	1.1	2.7	1.4	0.6	1.9	1.3	1.1	2.1	2.8	4.4	8.8
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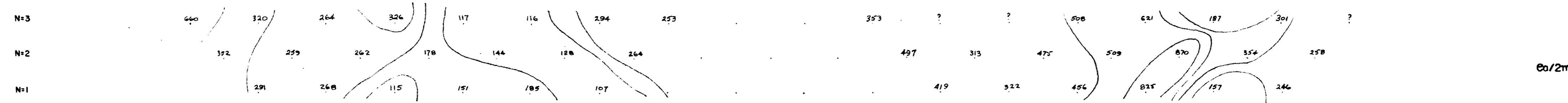
N=3	7.1	2.4	2.1	3.5	1.0	3.6	0.4	1.1	4.2	2.3	1.3	1.3	3.6	2.9	0.9	0.6	3.0	-1.5	3.3	2.6	1.4	1.4	1.6	1.8	1.4	1.3	4.0	4.2	0.6	3.5	5.0
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(M.F.)a

1710

LOG 07

1710  
LOG 07



133 W 130 W 127 W 124 W 121 W 118 W 115 W 112 W 109 W 106 W 103 W 100 W 97 W 94 W 91 W 88 W 85 W 82 W 79 W 76 W 73 W 70 W 67 W KEL-GLEN MINES LTD.

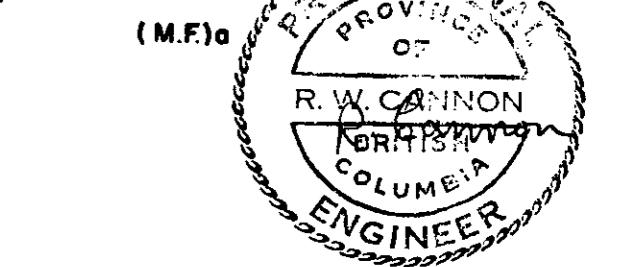
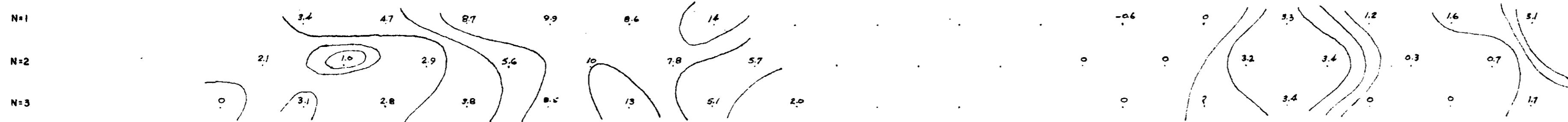
LINE 56+00 N

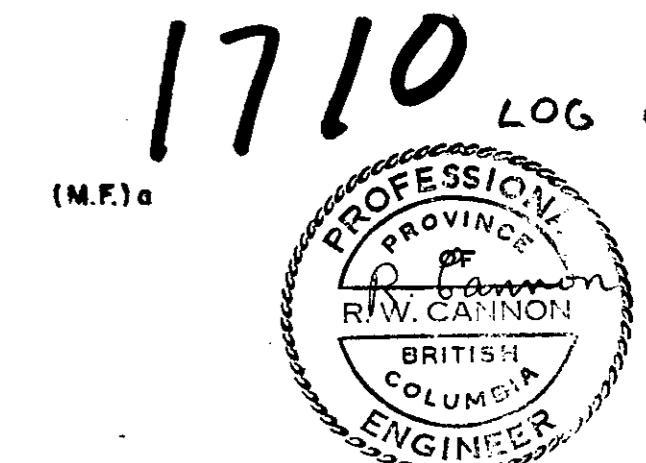
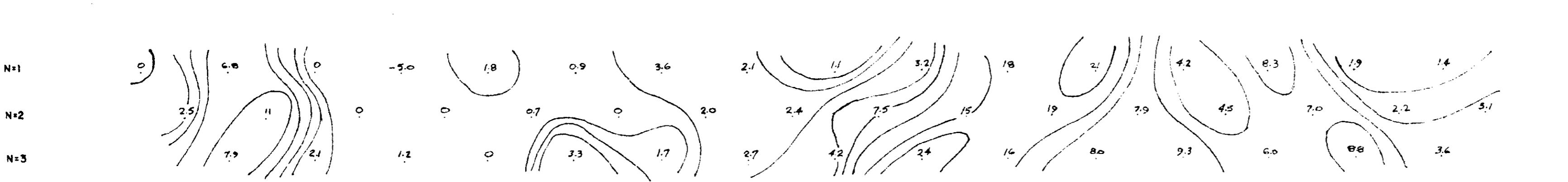
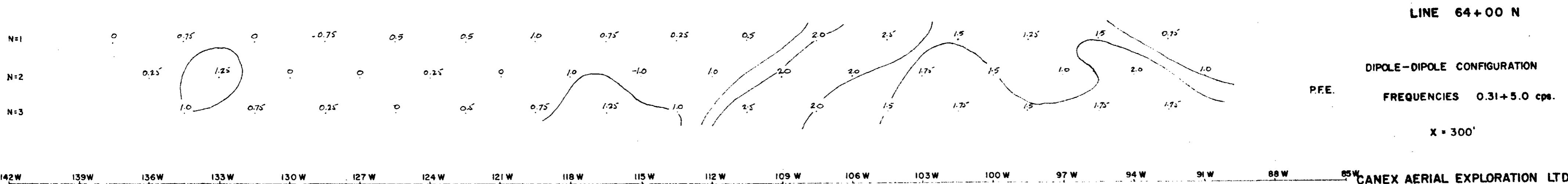
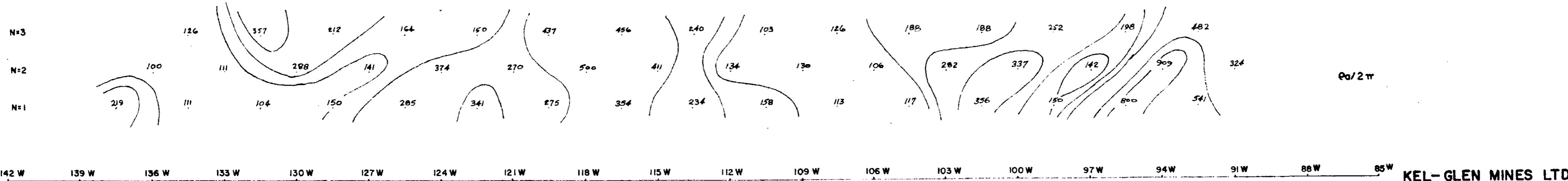


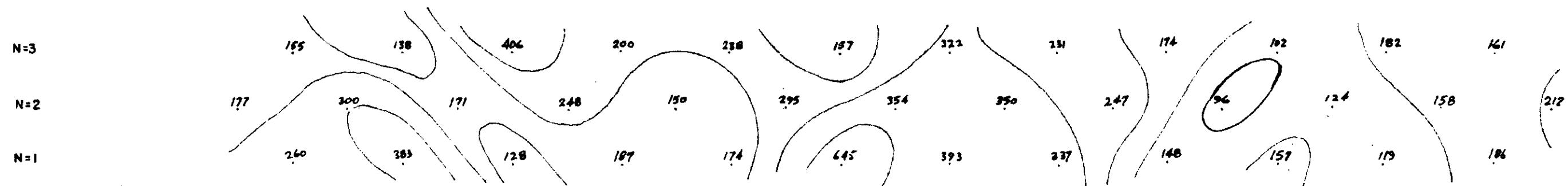
X = 300'

133 W 130 W 127 W 124 W 121 W 118 W 115 W 112 W 109 W 106 W 103 W 100 W 97 W 94 W 91 W 88 W 85 W 82 W 79 W 76 W 73 W 70 W 67 W CANEX AERIAL EXPLORATION LTD.

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$\theta_0/2\pi$

142 W 139 W 136 W 133 W 130 W 127 W 124 W 121 W 118 W 115 W 112 W 109 W 106 W 103 W 100 W 97 W 94 W KEL-GLEN MINES LTD.

LINE 72 + 00 N

N=1	0.75	0.75	0.75	0.25	0.5	0.75	1.0	0.5	0.75	1.0	1.0	-2.25	0.25	
N=2	0.75	0.5	0.5	0.25	0.25	0.5	0.75	0.5	0.5	1.5	1.25	0	0.25	0.25
N=3	0.75	0.25	0.25	1.0	0.5	0.5	0.75	1.0	0.5	1.0	0.5	0.25	0.5	0.5

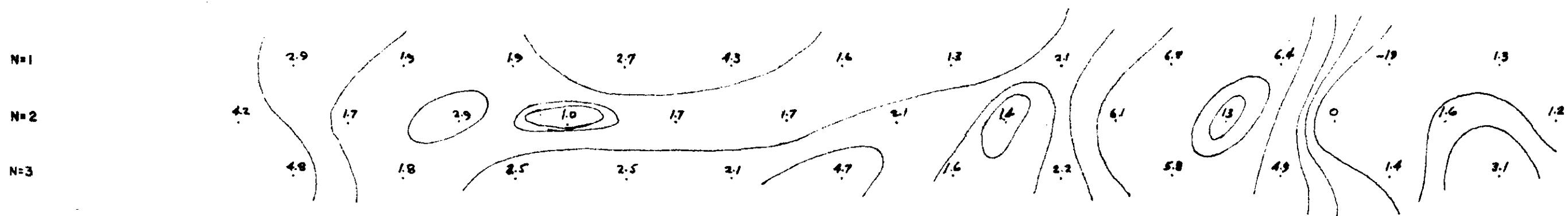
DIPOLE - DIPOLE CONFIGURATION

P.F.E. FREQUENCIES 0.31 + 5.0 cps.

X = 300'

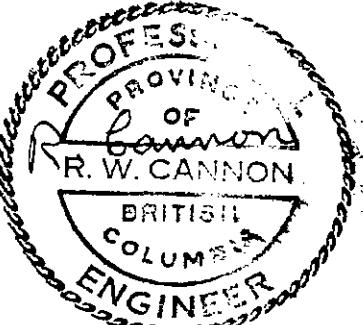
142 W 139 W 136 W 133 W 130 W 127 W 124 W 121 W 118 W 115 W 112 W 109 W 106 W 103 W 100 W 97 W 94 W CANEX AERIAL EXPLORATION LTD.

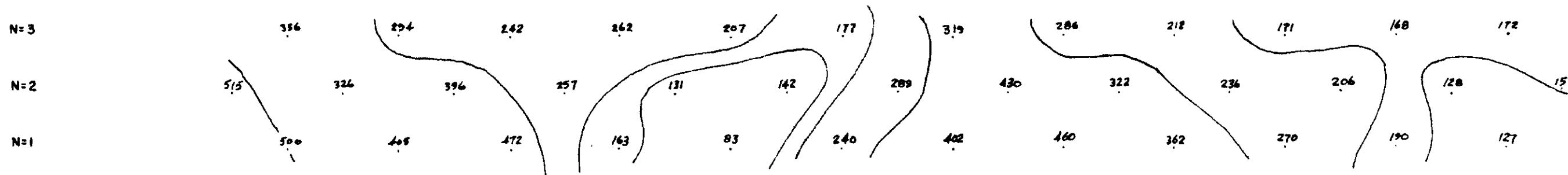
DRAWN BY J. THORNTON DATE: OCT. 1968



(M.F.)<sup>a</sup>

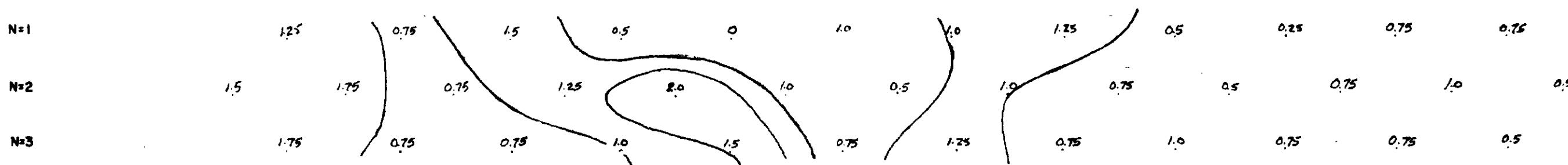
1710 LOG 10





$$a/2\pi$$

**KEL-GLEN MINES LTD.**



LINE 80+00 N

## DIPOLE-DIPOLE CONFIGURATION

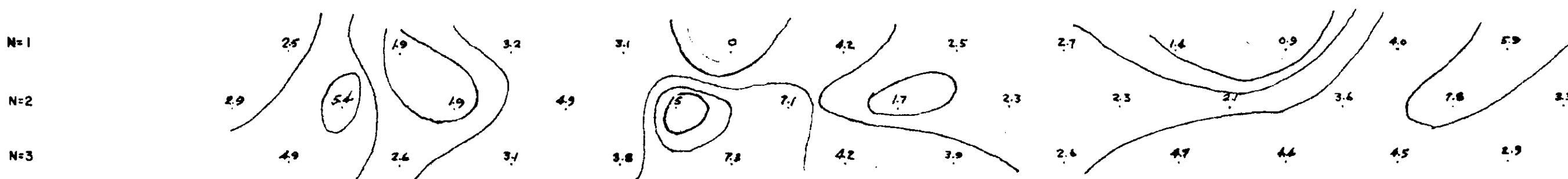
FE.

FREQUENCIES       $0.31 \pm 5.0$  cps.

$\approx 300^\circ$

145W 142W 139 W 136 W 133W 130W 127 W 124 W 121 W 118 W 115 W 112 W 109 W 106W 103 W 100W 97 W CANEX AERIAL EXPLORATION LTD.

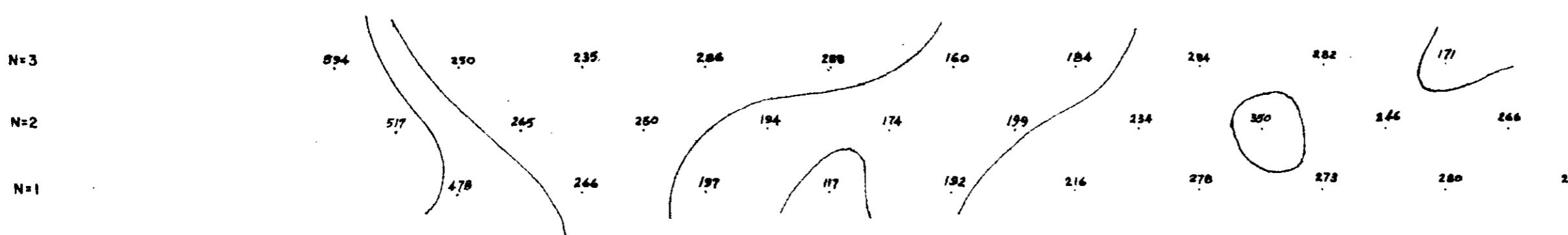
DRAWN BY J. THORNTON DATE OCT. 1968



(M.F.) q

A circular professional seal. The outer ring contains the word "PROFESSIONAL" at the top and "ENGINEER" at the bottom, both in a stylized font. Inside this, another ring contains "PROVINCE" at the top and "OF" below it. The center of the seal features a portrait of a man, identified as R.W. Cannon, with the name "R.W. CANNON" written below the portrait. A banner or ribbon surrounds the portrait with the words "PROFESSIONAL ENGINEER" and "PROVINCE OF BRITISH COLUMBIA".

1710 LOG 11



145 W      142 W      139 W      136 W      133 W      130 W      127 W      124 W      121 W      118 W      115 W      112 W      109 W      106 W      103 W      100 W      KEL-GLEN MINES LTD.

### LINE 88+00 N

N=1		0.5	0.75	0.25	0.25	0.5	0.5	1.0	0.75	1.0	0.75
N=2		0.75	0.25	0.5	0	0.5	0.75	0.25	0.5	0.75	0.75
N=3		1.0	0.5	0	0.25	0.75	0.5	0.5	0.25	0.75	1.0

DIPOLE-DIPOLE CONFIGURATION

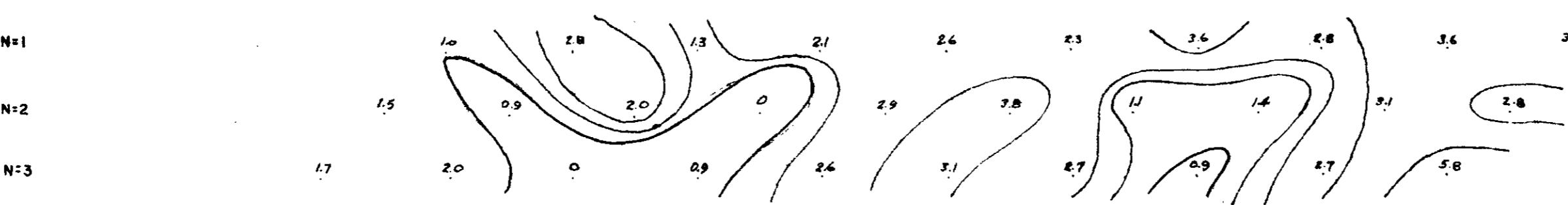
P.F.E.

FREQUENCIES 0.31 + 5.0 cps.

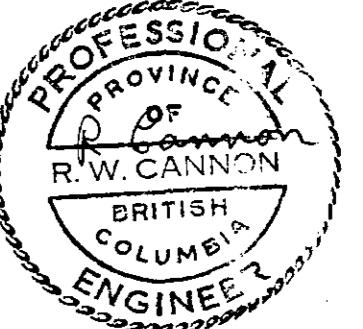
X = 300'

145 W      142 W      139 W      136 W      133 W      130 W      127 W      124 W      121 W      118 W      115 W      112 W      109 W      106 W      103 W      100 W      CANEX AERIAL EXPLORATION LTD.

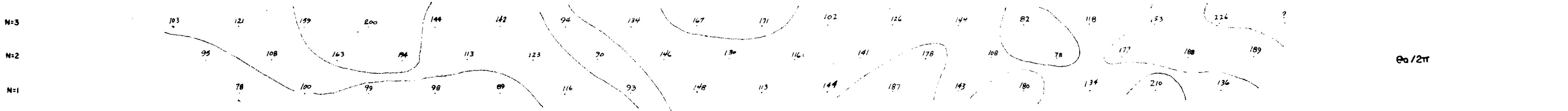
DRAWN BY J. THORNTON DATE: OCT. 1968



(M.F.)a



1710 LOG 12



129 W 126 W 123 W 120 W 117 W 114 W 111 W 108 W 105 W 102 W 99 W 96 W 93 W 90 W 87 W 84 W 81 W 78 W 75 W 72 W 69 W 66 W KEL-GLEN MINES LTD.

### LINE 104+00 N

N=1		1.0	1.25	1.0	1.0	1.25	0.75	0.5	0.5	1.0	1.25	1.0	1.25	1.25	0.5	0.25	0.25	
N=2		1.0	0.75	1.0	1.0	1.0	0.75	0.5	0.5	0.5	1.0	0.5	1.25	1.0	0.75	0	1.0	0.25
N=3		0.75	0.75	0.75	1.25	1.25	1.25	0.5	0.75	0.5	0.75	0	0.75	1.0	1.25	0	0.5	1.25

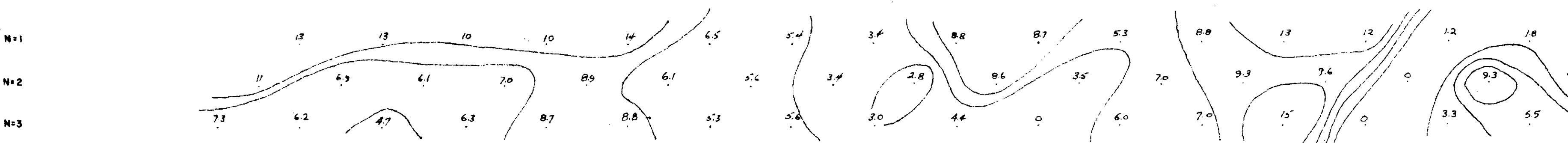
DIPOLE-DIPOLE CONFIGURATION

P.F.E. FREQUENCIES 0.31 + 5.0 cps.

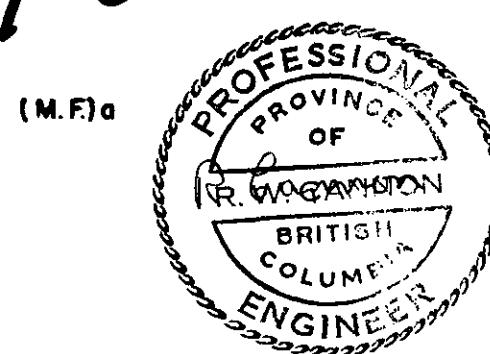
x = 300'

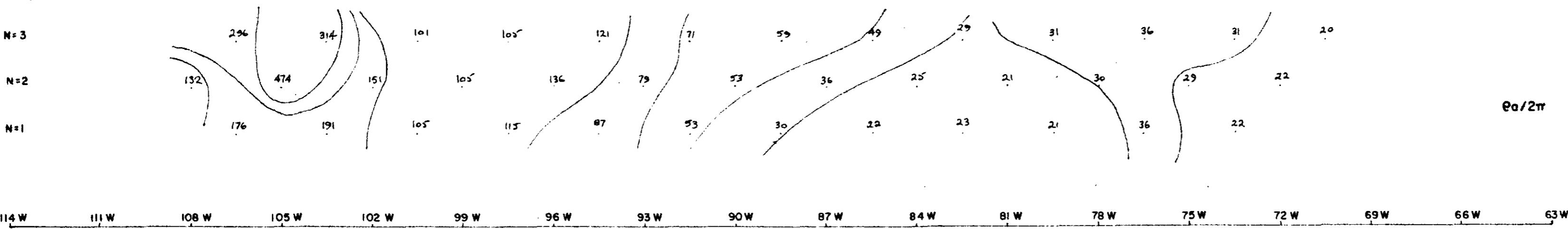
129 W 126 W 123 W 120 W 117 W 114 W 111 W 108 W 105 W 102 W 99 W 96 W 93 W 90 W 87 W 84 W 81 W 78 W 75 W 72 W 69 W 66 CANEX AERIAL EXPLORATION LTD.

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17/0 LOG 13





# KEL-GLEN MINES LTD.

LINE 112 + 00 N

N=1	0.75	-0.25	0.5	1.75	-0.25	0.75	1.25	-0.25	-0.75	1.0	0.5	0.5	
N=2	0.5	1.0	0.75	1.0	0.5	0.5	1.0	0.25	0	1.25	0.25	-0.25	0.75
N=3	-0.25	1.0	1.25	1.0	0.5	0.5	1.0	0	0	1.25	0.25	0	0.5

## **POLE-DIPOLE CONFIGURATION**

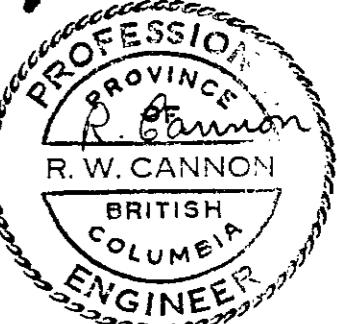
FREQUENCIES 0.31 + 5.0 cps.

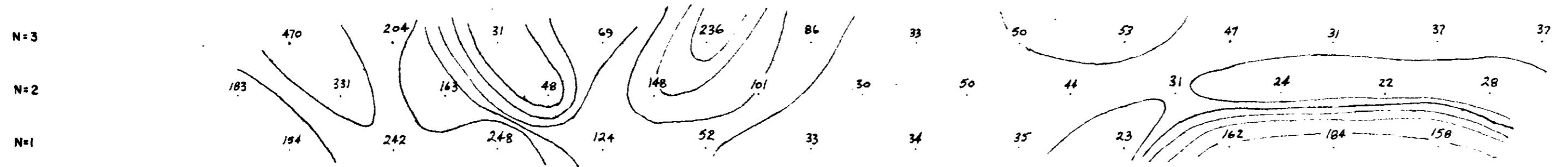
$x = 300'$

114 W 111 W 108 W 105 W 102 W 99 W 96 W 93 W 90 W 87 W 84 W 81 W 78 W 75 W 72 W 69 W 66 W 63 W CANEX AERIAL EXPLORATION LTD.

OWN BY J. THORNTON DATE: OCT. 1968

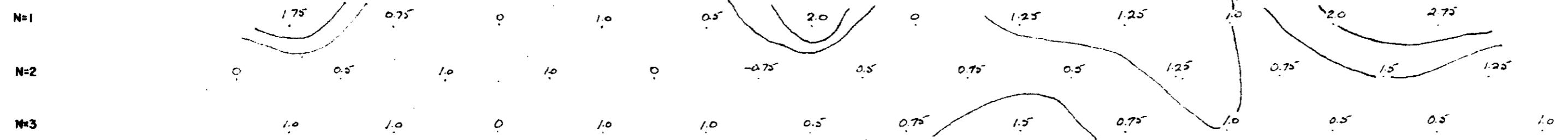
M.F.) o





$\theta_0/2\pi$

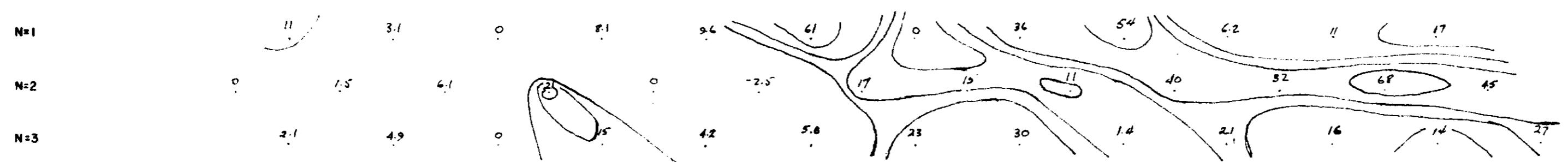
114 W 111 W 108 W 105 W 102 W 99 W 96 W 93 W 90 W 87 W 84 W 81 W 78 W 75 W 72 W 69 W 66 W 63 W KEL-GLEN MINES LTD.



LINE 120+00 N

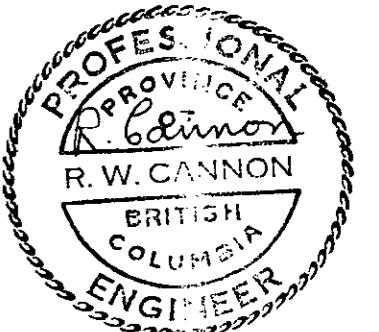
DIPOLE-DIPOLE CONFIGURATION

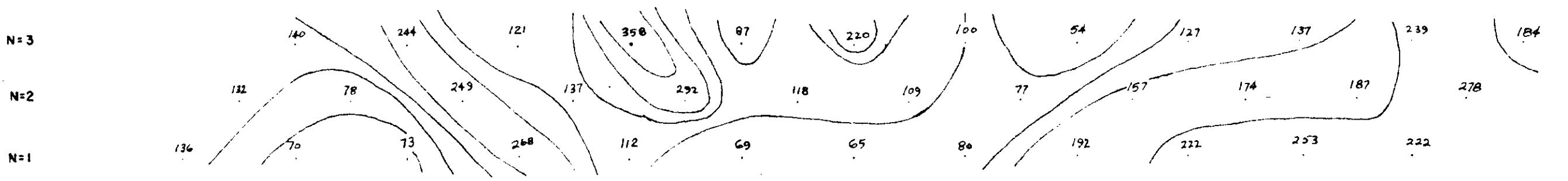
114 W 111 W 108 W 105 W 102 W 99 W 96 W 93 W 90 W 87 W 84 W 81 W 78 W 75 W 72 W 69 W 66 W 63 W CANEX AERIAL EXPLORATION LTD.



DRAWN BY J. THORNTON DATE OCT. 1968

1710 LOG 15  
(M.F.)o





$$/2\pi$$

**KEL-GLEN MINES LTD.**

**LINE 128+00 N**

N=1	1.0	0.75	1.25	1.0	0.25	0.75	0.5	0.75	0.5	0.25	0.75	1.0	1.0	1.0
N=2		0.5	1.5	1.0	0.25	1.0	1.0	0.5	0	0.75	0.75	0.75	0.75	0.5
N=3			1.5	0.5	0.5	0.75	0.75	1.0	0.25	0.25	0	0.75	1.0	0.25

## DIPOLE-DIPOLE CONFIGURATION

FREQUENCIES 0.31 ± 5.0 EPS.

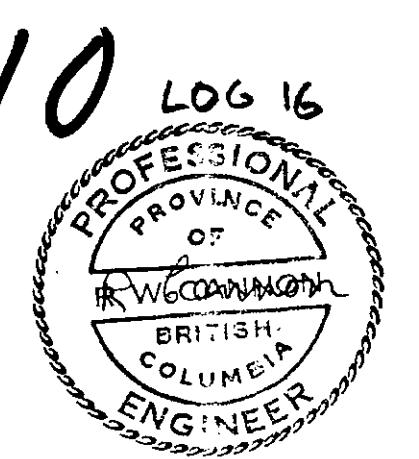
$$\alpha = 300^\circ$$

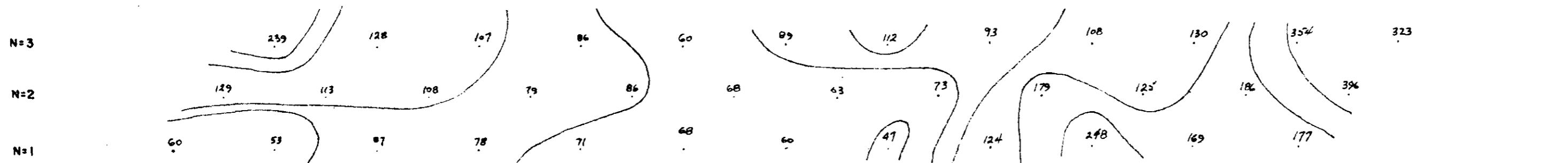
115 W 111 W 108 W 105 W 102 W 99W 96 W 93 W 90W 87 W 84W 81 W 78 W 75 W 72 W 69W 66W CANEX AERIAL EXPLORATION LTD.

DRAWN BY J. THORNTON DATE 1 OCT. 1968

Detailed description of Figure 10: This figure consists of three horizontal rows of contour maps, labeled N=1, N=2, and N=3 from top to bottom. Each row contains seven contour maps. The contours are represented by black lines on a white background. Numerical values are printed inside or near the contours. In the first row (N=1), values range from 0 to 7.4. In the second row (N=2), values range from 0 to 4.8. In the third row (N=3), values range from 0 to 4.2. The patterns of contours and values change across the rows, suggesting a progression or evolution of the variable being modeled.

(M.F.) o





117 W 114 W 111 W 108 W 105 W 102 W 99 W 96 W 93 W 90 W 87 W 84 W 81 W 78 W 75 W 72 W 69 W KEL-GLEN MINES LTD.

LINE 136+00 N

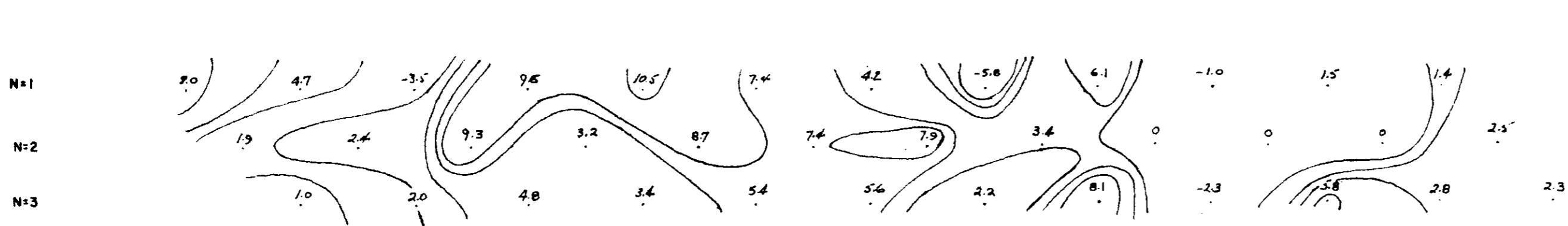
N=1	0.5	0.25	-0.25	0.75	0.75	0.5	0.25	-0.25	1.0	-0.25	0.25	0.25
N=2		0.25	0.25	1.0	0.25	0.75	0.5	0.5	0.25	0	0	0
N=3		0.25	0.25	0.5	0.25	0.5	0.5	0.25	1.0	0.25	0.75	1.0

DIPOLE-DIPOLE CONFIGURATION

P.F.E. FREQUENCIES  $0.31 + 5.0$  cps.

X = 300'

117 W 114 W 111 W 108 W 105 W 102 W 99 W 96 W 93 W 90 W 87 W 84 W 81 W 78 W 75 W 72 W 69 W CANEX AERIAL EXPLORATION LTD.

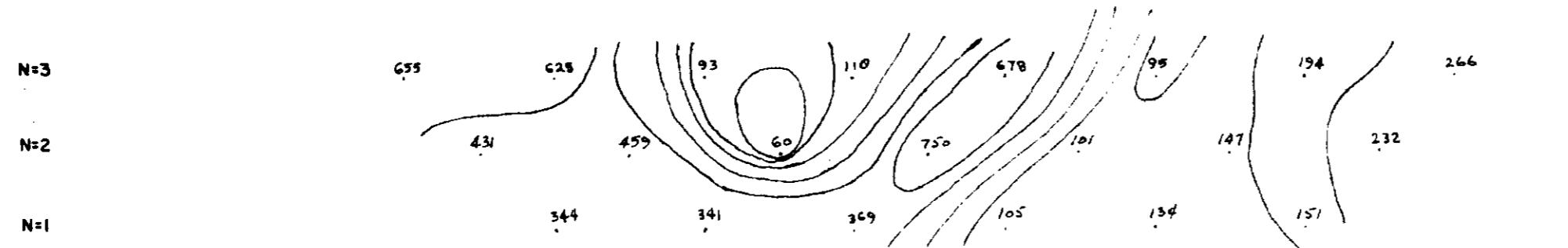


(M.F.)a

1710 LOG 17



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105W 102W 99W 96W 93W 90W 87W 84W 81W 78W 75W 72W 69W KEL-GLEN MINES LTD.

LINE 144+00N

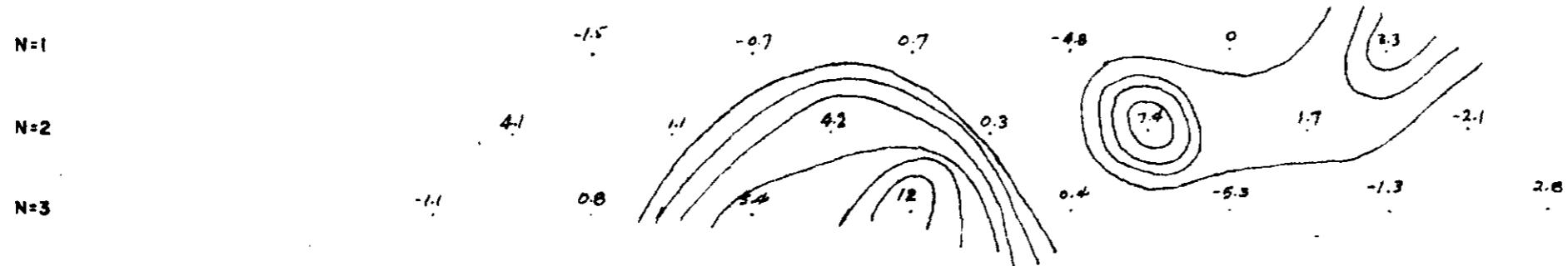
N=1	-0.5	-0.25	0.25	-0.5	0	0.5						
N=2	-1.75	0.5	0.25	0.25	0.75	0.25	-0.25	-0.5				
N=3	-0.75	0.5	0.5	1.25	0.25	-0.5	-0.25	0.75				

DIPOLE-DIPOLE CONFIGURATION

P.F.E. FREQUENCIES 0.31 + 5.0 cps.

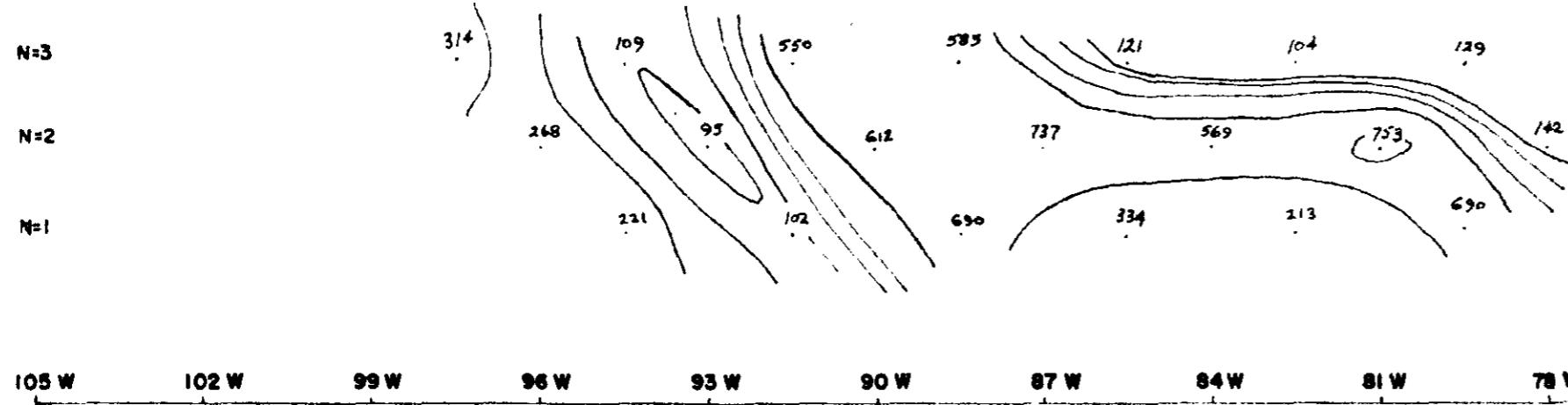
X = 300'

105W 102W 99W 96W 93W 90W 87W 84W 81W 78W 75W 72W 69W CANEX AERIAL EXPLORATION LTD.



1710 DRAWN BY J. THORNTON DATE: OCT. 1968  
LOG 18





KEL-GLEN MINES LTD.

LINE 152+00 N

N=1	0.75'	0.25'	0.5'	0.25'	0.75'	1.0	
N=2	0.75'	0.5'	1.0	1.25'	1.0	0.75'	1.25'
N=3	0.75'	1.0	0.5'	0.5'	1.0	1.25'	0.75'

DIPOLE-DIPOLE CONFIGURATION

P.F.E.

FREQUENCIES 0.31 + 5.0 cps.

X = 300'

105 W    102 W    99 W    96 W    93 W    90 W    87 W    84 W    81 W    78 W    75 W    72 W    69 W

CANEX AERIAL EXPLORATION LTD.

DRAWN BY J. THORNTON DATE: OCT. 1968

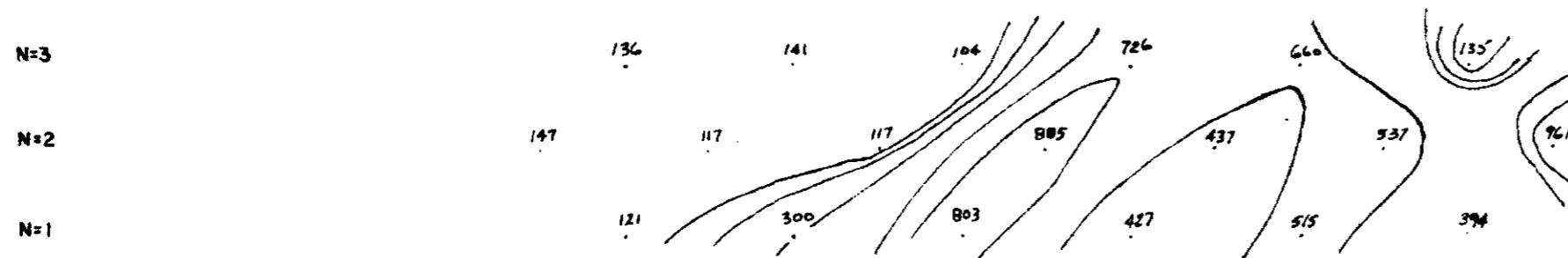


1710

(M.F.) a

LOG 19





105 W      102 W      99 W      96 W      93 W      90 W      87 W      84 W      81 W      78 W      75 W      72 W      69 W KEL-GLEN MINES LTD.

LINE 160+00 N

N=1	-0.5	-0.25	0.75	0.25	-0.75	0	
N=2	0.25	-0.25	0	1.0	0	0.5	0
N=3	-1.0	0.75	-0.25	0.25	0.5	0.5	

DIPOLE-DIPOLE CONFIGURATION

P.F.E.

FREQUENCIES 0.31 + 5.0 cps.

X = 300'

105 W      102 W      99 W      96 W      93 W      90 W      87 W      84 W      81 W      78 W      75 W      72 W      69 W CANEX AERIAL EXPLORATION LTD.

N=1	-4.1	-0.8	0.9	0.6	-1.5	0	0
N=2	6.7	-2.1	0	1.2	0.8	0.9	0
N=3	-7.3	(5.3)	-2.4	0.3	0	3.7	

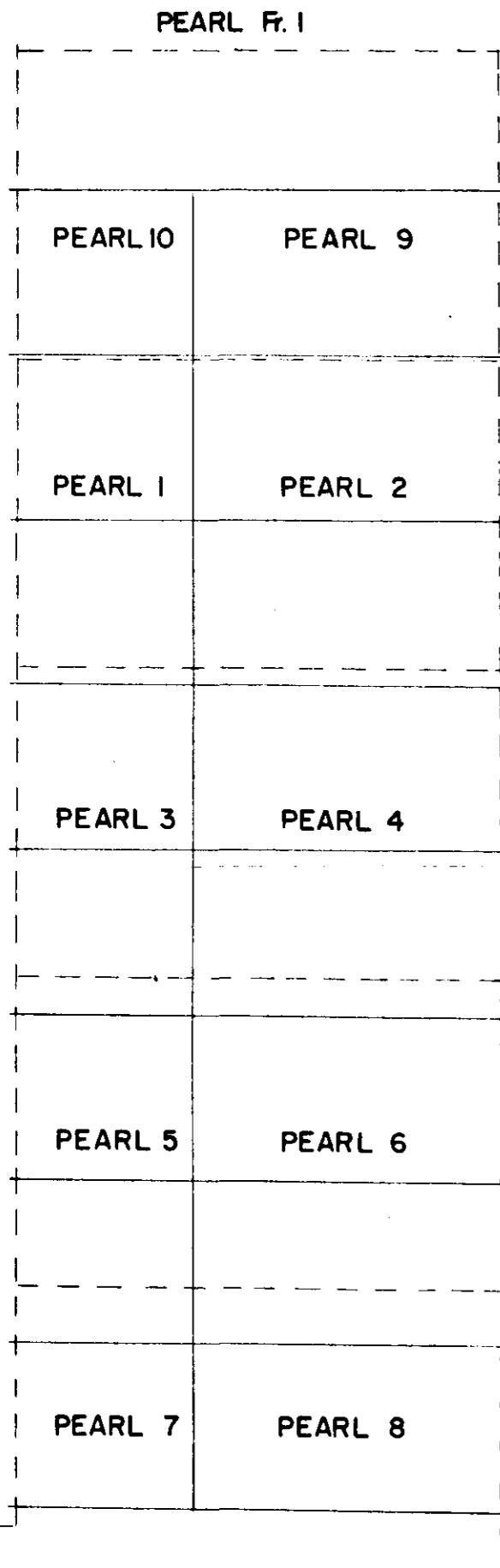
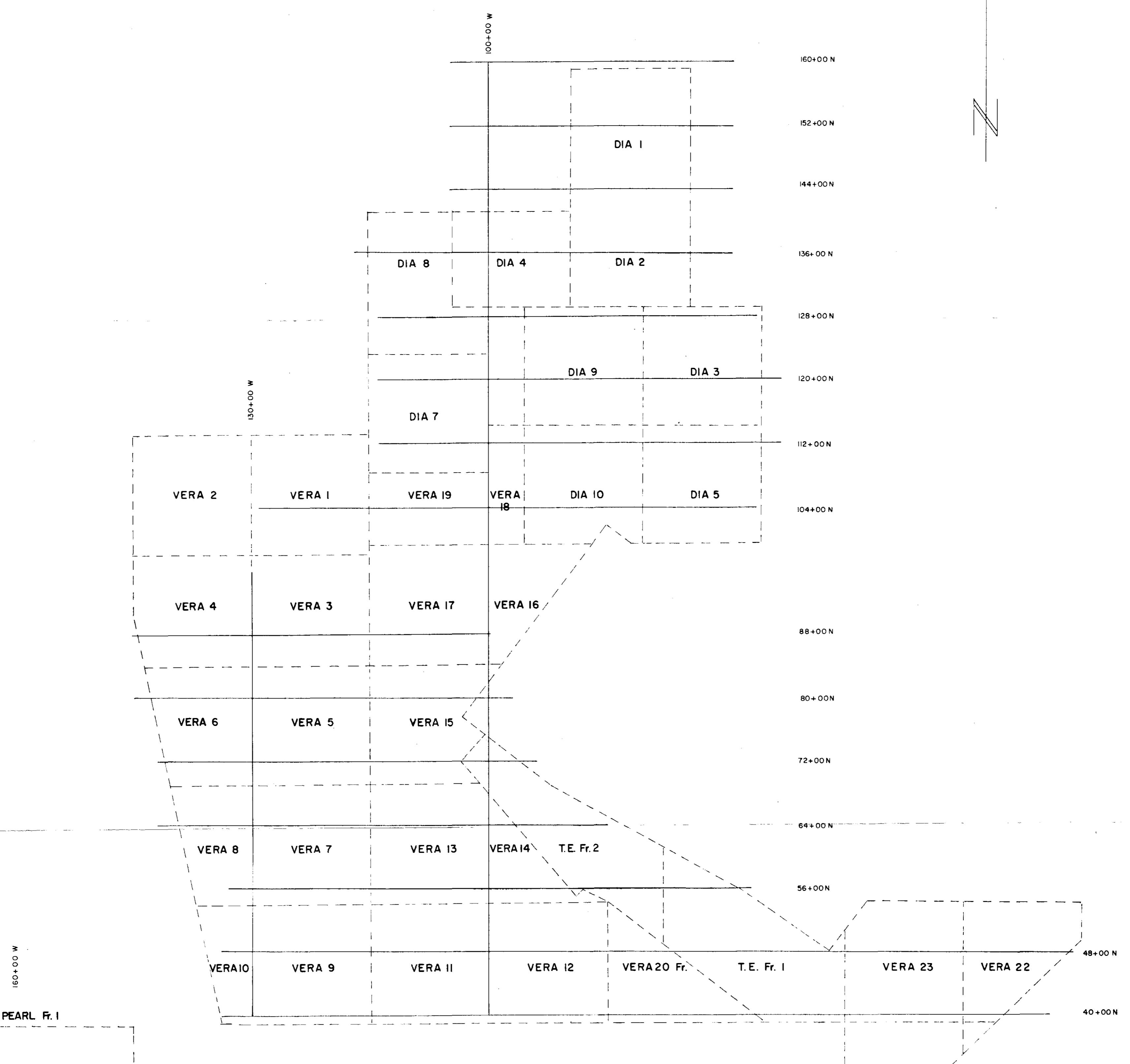


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1710

(M.F.) a

LOG 20



LEGEND

CLAIM BOUNDARIES TRAVERSE LINES

1710

MAP 01

