

# ASSESSMENT REPORTS

MAP No. 105-0-11 TYPE OF WORK: Geophysical

REPORT FILED UNDER

Leyce River Mines Ltd.

DATE PERFORMED

OCT - DEC 1969

DATE FILED: December 1969

LOCATION - LAT.

60° 35'

east of Whitehorse, Y.T.

LONG.

131° 45'

CLAIM Nos.

see back

WORK DONE BY

Carex Aerial Surveys Ltd. - R. W. CANNON, BA Sc, P. Eng.

WORK DONE FOR

Leyce River Mines Ltd.

REMARKS

A magnetometer survey was carried out on the claim areas. The corrected and contoured results of the survey are shown on the maps. A section on each of these Grid Areas follows.

The survey was carried out using a Jalahor vertical flux gate

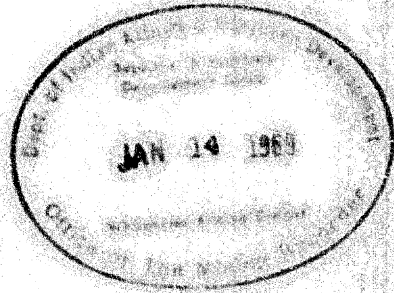
89,803 + 5,440 653 + 6,140

# CANEX AERIAL EXPLORATION LTD

DIVISION OF CANADIAN EXPLORATION LIMITED

700 BURNARD BUILDING

VANCOUVER 5 B C CANADA



## GEOPHYSICAL REPORT

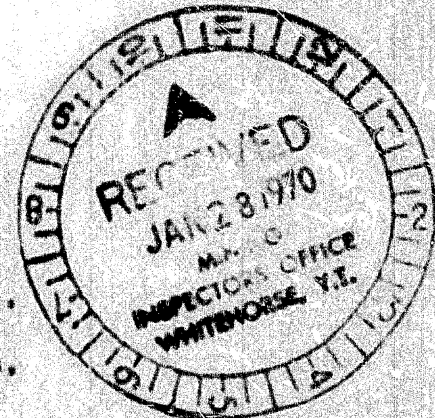
INDUCED POLARIZATION SURVEY FOR  
LEWIS RIVER MINES LIMITED (N.P.L.)

WHITENORSE AREA: 60° 36', 134° 45'

CLAIMS: AZ, AC, AD, B.C., C.C., A.F.,

E.Z., TOASTOOL, RED DEER, MILK, PUTA,

MILK AND CUB



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

OCTOBER AND NOVEMBER 1969

This report has been examined by the  
Geological Evaluation Unit and is recom-  
mended by the Commission as being con-  
sidered as reliable information for the purposes of

82,903

*A.B. Craig R.G.*

Resident Mining Engineer

Considered as reconnaissance work under  
Section 53 (a) Yukon Quartz Mining Act.

*[Signature]*  
Commissioner of Yukon Territory

BREAKDOWN OF INDUCED POLARIZATION SURVEY EXPENDITURES ON

LEWIS RIVER MINES LTD. (N.P.L.)

SURVEY CONDUCTED OCTOBER 12, 1969 TO NOVEMBER 18, 1969

I.P. equipment rental and two operators wages:

20 operating days @ \$240.00/day \$ 4,800.00  
10 weather days and breakdowns @ \$80.00/day \$ 800.00

Total man days worked:

Operators - 30 X 2 = 60 man days.

	<u>Helpers</u>	<u>Days</u>	<u>Rate/Day</u>	<u>Cost</u>
Local	(J. Alson	16	\$21.50	\$344.00
	(J. Hanks	3	\$20.00	\$ 60.00
	(J. Finney	5	\$20.00	\$100.00
	(L. Search	4	\$20.00	\$ 80.00
	(T. Fox	2	\$20.00	\$ 40.00

Helper man days = 30

Labour cost for helpers = \$ 624.00

Transportation Costs = \$ 600.00

Accommodation at Shannon Hotel =

R. Cannon - Oct. 12-28 incl. 20 X \$12.00 = \$204.00

J. Alson and D. Penner -  
Oct. 12-31 incl.

Nov. 1-18 incl. 38 X \$16.00 = \$608.00

J. Thornton - Nov. 1 X \$12.00 = \$ 12.00

Total - \$824.00 \$ 824.00

Board Costs @ \$10.00/day/man -

R. Cannon - 20 days

J. Alson 38 days

D. Penner 38 days

J. Thornton 1 day

97 man days X \$10.00 = \$ 970.00

Compensation, Administration, Supervision @ \$5.00

Local and Canex - 14 + 97 = 111 X \$5.00 \$ 555.00

Mobilization Costs = \$ 730.00

TOTAL COST OF I.P. SURVEY = \$ 9,903.00

*R.M. Cannon*

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## ILLUSTRATIONS

MAP SHOWING GRID AND I.P. ANOMALIES	IN POCKET
MAP SHOWING GRID AND CLAIMS	IN POCKET
I.P. SECTIONS	

## 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 ( $X$ ) 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 SURVEY

GRID 1

WHITEHORSE AREA, Y.T.

LEWIS RIVER MINES LIMITED (N.P.L.)

INTRODUCTION

An Induced Polarization Survey was carried out on a portion of the claims held by Lewis River Mines Ltd. (N.P.L.) during the months of October and November 1969.

This survey covered part of the AZ claims and fractions along a total of 15.465 miles of cut line. The lines were cut North-East at 400 foot intervals with stations marked every 100 feet. The remainder of Grid 1 was not completed because of contact problems encountered during sub-zero weather.

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

LOCATION AND ACCESS

The property is located to the east of the city of Whitehorse and lies parallel to the Yukon River. Grid 1 is located north of Whitehorse and west of the Yukon River. Most of the Lewis River property is accessible via bushroad from Whitehorse.

PROPERTY

The property consists of 478 contiguous claims with the following names: AZ, AC, AD, B.C., C.C., A.F., E.Z., Toadstool, Red Deer, Hulk, Puta, Milk and Cub.

### PREVIOUS WORK

The previous work on the Lewis River property consisted of limited line-cutting and geophysics. The geophysical surveys were an Induced Polarization Survey (pulse-type), Ground Magnetometer Surveys and an Airborne Magnetometer Survey over selected Grid Areas.

### 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. All lines were run using an electrode spread of 300 feet and dipole separations of  $N = 1, 2$  and  $3$ . The anomalous areas are shown as solid bars on the appropriate lines on the enclosed base map.

### DISCUSSION OF RESULTS

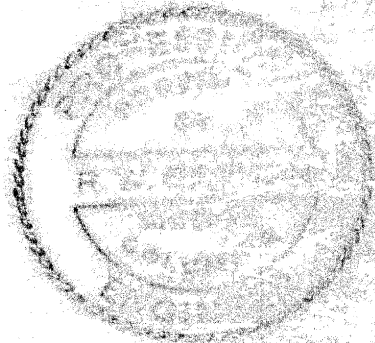
A total of 15.455 miles of line were run on the Lewis River Mine claim area. The background percent frequency effect on the property averages 2.25. The main anomalies located on several of the lines are as follows: Line 0+00 (245 to 475), Line 4+00W (365 to 495), Line 8+00W (385 to 465), Line 12+00W (425 to 525), Line 20+00W (425 to 475), Line 28+00W (385 to 465) and Line 32+00W (395 to 425). The anomaly located on Line 36+00W (45 to 12H) appears to be caused by an airport radio beacon.

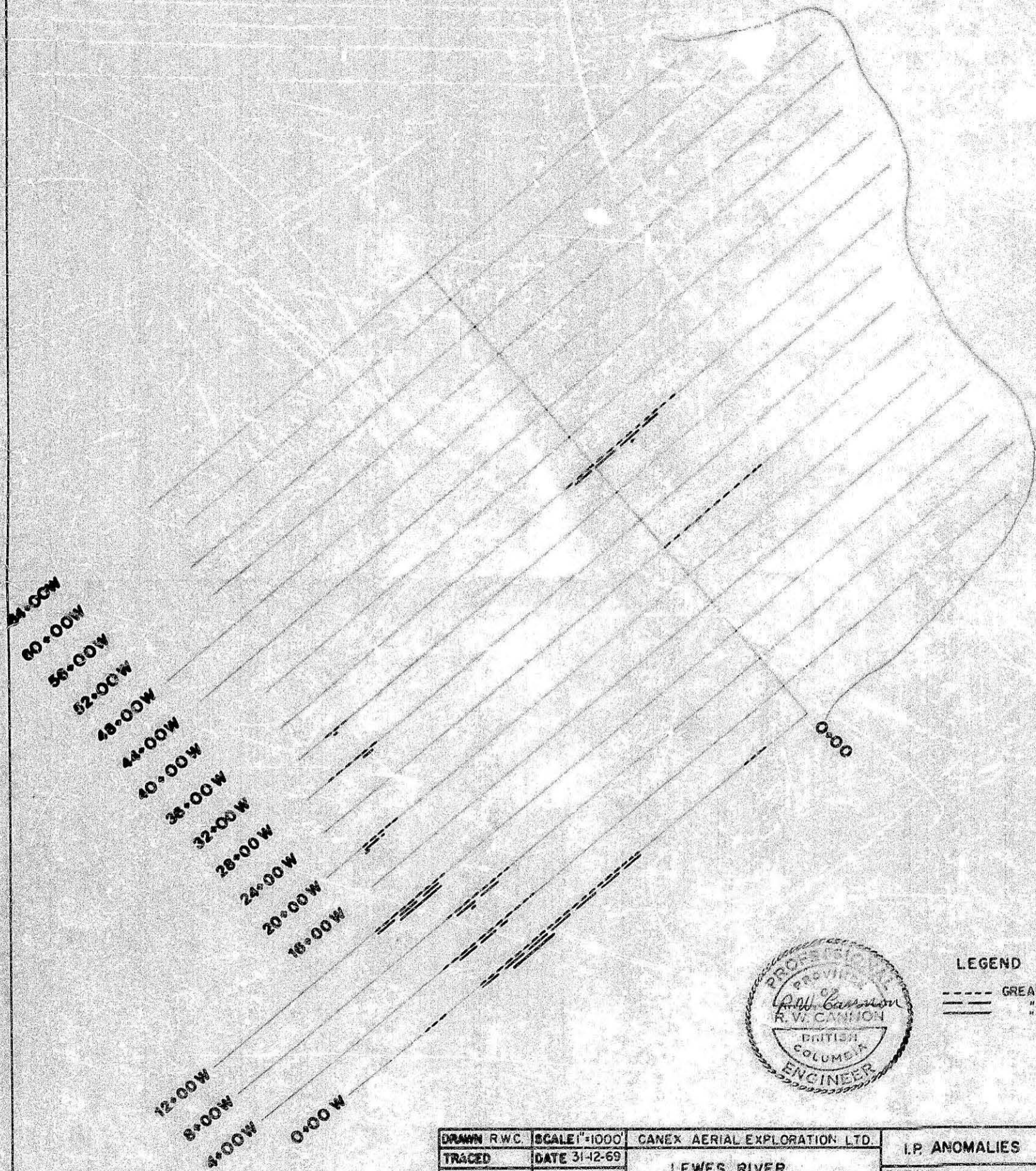
There is a marked increase at surface, where the main anomalies occur, of the resistivity values. This situation is similar to the mineralized contact at the south end of the property.

CONCLUSIONS AND RECOMMENDATIONS

It was concluded that anomalous conditions exist along the South-East corner of Grid 1 which may extend to the North. I recommend that a minimum of four holes be drilled to test this anomaly. The holes should be vertical and at least 300' deep. They should be located as follows:  
Line 0+00W at 40+00S, Line 4+00W at 44+00S, Line 8+00W at 48+00S, Line 12+00W at 47+00S. A fifth hole could possibly be drilled on Line 20+00W at 47+00S.

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



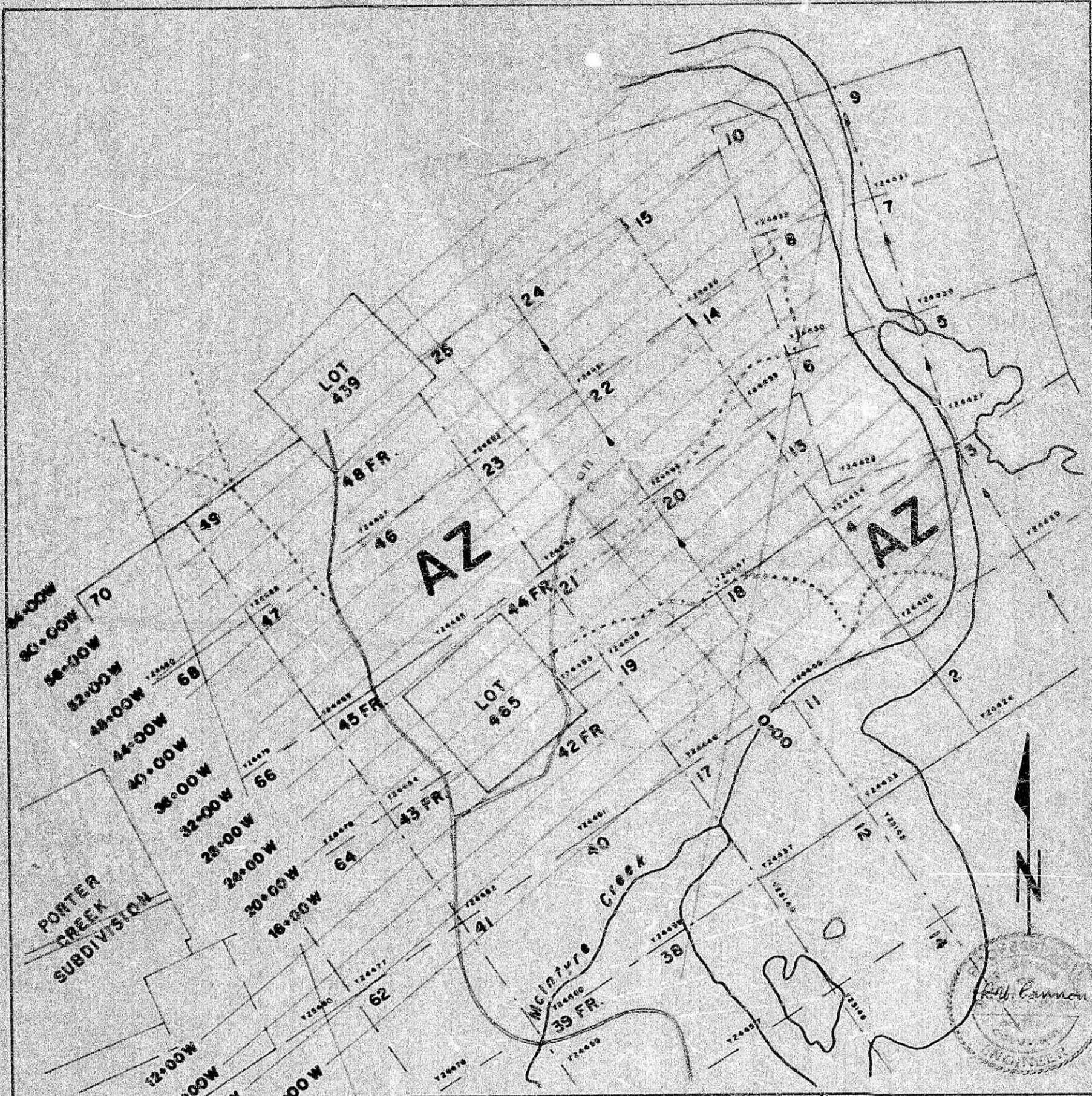


LEGEND

----- GREATER THAN 25 PEE.  
 === " " 30 "  
 === " " 40 "



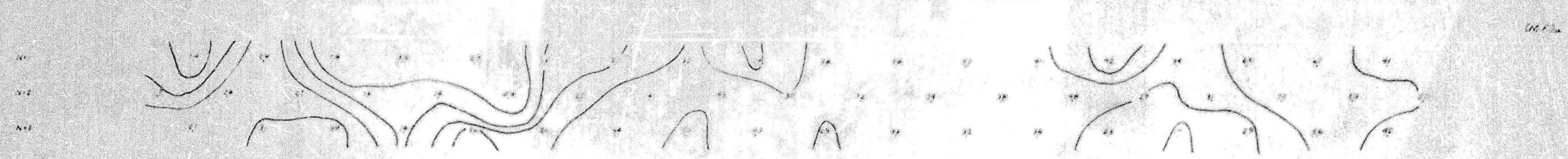
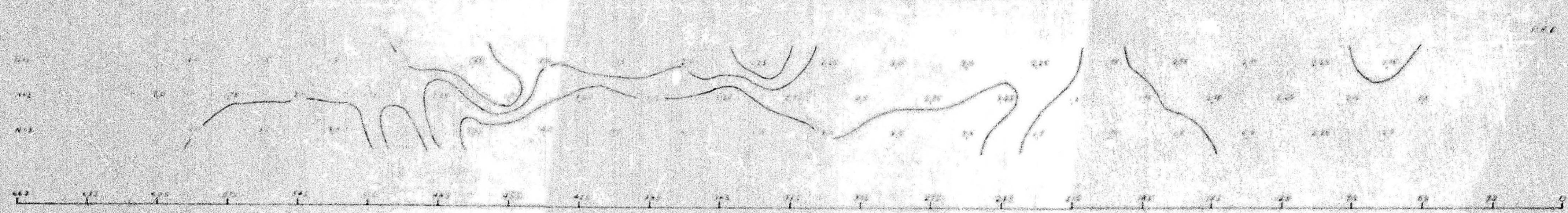
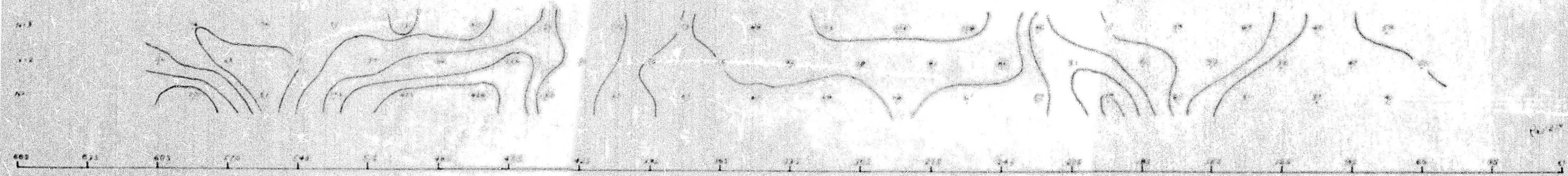
DRAWN RWC	SCALE 1"=1000'	CANEX AERIAL EXPLORATION LTD.	I.P. ANOMALIES GRID I
TRACED	DATE 31-12-69	LEWES RIVER	FILE NO.
APPROVED			



DRAWN	P.S.H.	SCALE 1"=1000'	CANEX AERIAL EXPLORATION LTD
TRACED	DATE 1 JAN 70	<b>LEWES RIVER</b>	
APPROVED		FILE NO.	

LOCATION MAP - Grid No. 1





**LEWES RIVER MINES**

LINE O.C.O.W

DIPOL E. DIPOLE CONFIGURATION

FREQUENCIES: 0.31 + 50 cps

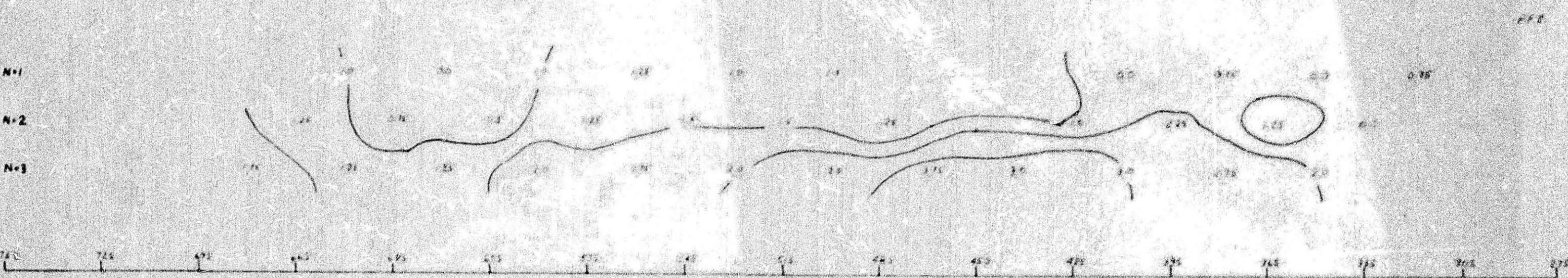
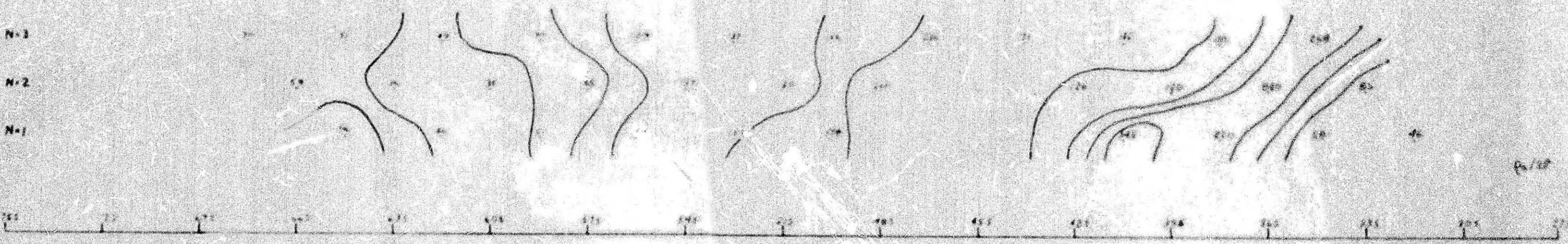
X = 300'

CANEX AERIAL EXPLORATION LTD.

DRAWN BY: R. CANNON

DATE: OCTOBER, 1969





**LEWES RIVER MINE S**

LINE 4-COW  
 DIPOLE DIPOLE CONFIGURATION  
 FREQUENCIES 0.51 + 51 Hz  
 X = 300'  
 CANEX AERIAL EXPLORATION LTD.  
 DRAWN BY R. CANNON  
 DATE OCTOBER, 1969

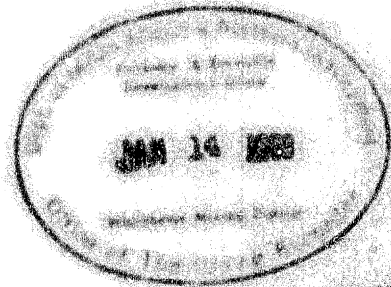


# CANEX AERIAL EXPLORATION LTD

DIVISION OF CANADIAN EXPLORATION LIMITED

700 BARRARD BUILDING

VANCOUVER 5 B C CANADA



## GEOPHYSICAL REPORT

MAGNETOMETER SURVEY FOR

LEWIS RIVER MINES LIMITED (N.P.L.)

WHITEHORSE AREA; 60° 35', 134° 45'

CLAIMS: AZ, AC, AD, B.C., C.C., A.F.,

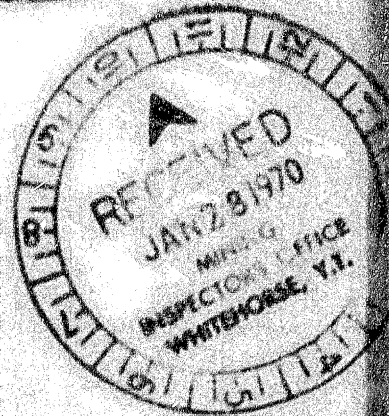
E.L., TONGSTON, RED DEER, WALK, PUTA,

WILK AND CUB

ERIC 1

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

NOVEMBER AND DECEMBER 1969



This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of

653

*D.B. Craig*

Regional Geophysical Engineer

Considered as representation work under Section 53 (1) Yukon Quartz Mining Act.

*[Signature]*  
Commissioner of the Yukon Territory

STATEMENT OF EXPENDITURES ON MAGNETOMETER SURVEY

FOR LONES RIVER MINES LIMITED (N.P.L.)

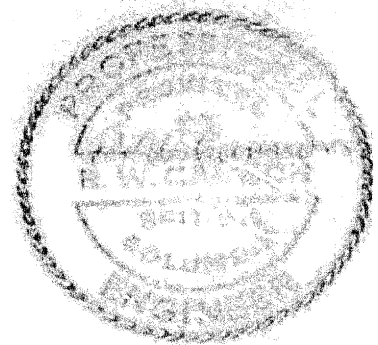
6939 1

Dates worked - November 27, 28, 29, 30  
and December 6, 1969.

Man days - S. Aiken - 5 days  
D. Penner - 5 days  
10 man days

Transportation Costs -	\$ 140.63
Rental of Jalander Magnetometer @ \$200.00/mo. x 5/30 x \$300.00 =	\$ 50.00
Labour 5 x \$22.62 =	\$ 113.10
5 x \$23.81 =	\$ 119.05
Accommodation at Shannon Hotel 5 x \$16.00	\$ 80.00
Board Cost @ \$10.00/day/man - 10 x \$10.00 =	\$ 100.00
Compensation, Administration, Supervision @ \$5.00/day/man - 10 x \$5.00 =	\$ 50.00
TOTAL =	\$ 652.78

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



# White, Hosford & Impey Limited

LEGAL SURVEYS      ENGINEERING

Whitehorse, Yukon

Paul E. White, P. Eng., A.L.S., B.C.S.  
 A. Ernest Hosford, A.L.S., B.C.S.  
 Hugh F. Impey, A.L.S., B.C.S., C.M.A.S., B.C.S.

14 November 1969.

INVOICE ON ACCOUNT

WITH: CANEX AERIAL EXPLORATION LTD.  
 800 BARRARD BUILDING  
 VANCOUVER 5, B.C.

TO: Base line and picket line cutting, stationing and  
 chaining on Lewes River Mines Ltd. property near  
 Whitehorse, Y.T.

- a) 10.61 miles baseline @\$250.00/mile  
 Invoiced October 27, 1969
- b) 26.6 miles picket line @\$125.00/mile      \$3325.00  
 Completed Grid 3

TOTAL PHYSICAL WORK \$3325.00

Our Invoice Nbr. 161-69W

ORDER No.	_____
RECEIVED BY	_____
DATE	_____
CHECKED WITH ORDER	_____
EXTENSIONS ORDERED	_____
PRICE APPROVED	_____
APPROVED FOR PAYMENT	<i>P. A. Howard</i>
CHARGED TO	<i>V-112</i>

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ILLUSTRATIONS

LOCATION MAP	IN POCKET
MAGNETOMETER MAP WITH VALUES	"
MAGNETOMETER CONTOUR MAP	"

REPORT ON THE MAGNETOMETER SURVEY

GRID 1

WHITEHORSE AREA, Y.T.

LEWIS RIVER MINES LIMITED (N.P.L.)

INTRODUCTION

A magnetometer survey was carried out on a portion of the claims held by Lewis River Mines Limited (N.P.L.) during the month of December 1969.

This survey covered part of the AZ claims and fractions along a total of 30.23 miles of cut lines. The lines were cut North-East at 400 foot intervals with stations marked every 100 feet.

The magnetometer survey was carried out using a Jalandhar vertical flux-gate type of magnetometer (Model MS05), which has an accuracy of  $\pm 10$  gauss.

LOCATION AND ACCESS

The property is located to the east of the City of Whitehorse and lies parallel to the Yukon River. Grid 1 is located north of Whitehorse and west of the Yukon River. Most of the Lewis River property is accessible via bushroad from Whitehorse.

PROPERTY

The property consists of 478 contiguous claims with the following names: AZ, AC, AD, B.C., C.C., A.F., E.Z., Toadstool, Red Deer, Milk, Puta, Milk and Cub.

### PREVIOUS WORK

The previous work on Grid 1 consisted of an Induced Polarization Survey on the southern half of the grid area, plus a low level helicopter magnetometer survey.

### PRESENTATION OF RESULTS

The magnetometer survey was carried out along 35.23 miles of line with readings taken every 100 feet. A map (scale 1" = 1000') showing the position of the cut lines in relation to the claim boundaries is included in the folder at the back of this report.

The corrected and contoured results of the magnetometer survey are shown on two enclosed maps (scale 1" = 400'). The results were contoured on 100 gamma intervals.

### DISCUSSION OF RESULTS

The area of Grid 1 had values between 900 and 1300 gammas with the average being 1050 gammas. No significant trends were indicated and thus no contact can be postulated from the magnetometer data.

### CONCLUSIONS

It was concluded that the magnetometer survey failed to define the contact picked up by the Induced Polarization Survey.

*R. M. Cannon, P. Eng.*  
R. M. CANNON, P. Eng.





64°00'W

80°00'W

96°00'W

112°00'W

128°00'W

144°00'W

160°00'W

176°00'W

192°00'W

208°00'W

224°00'W

240°00'W

256°00'W

272°00'W

288°00'W

304°00'W

320°00'W

336°00'W

352°00'W

368°00'W

384°00'W

400°00'W

416°00'W

432°00'W

448°00'W

464°00'W

480°00'W

496°00'W

512°00'W

528°00'W

544°00'W

560°00'W

576°00'W

592°00'W

608°00'W

624°00'W

640°00'W

656°00'W

672°00'W

688°00'W

704°00'W

720°00'W

736°00'W

752°00'W

768°00'W

784°00'W

800°00'W



DRAWN JBA	SCALE 1"=400'	CANEX AERIAL EXPLORATION LTD.	MAGNETOMETER SURVEY GRID 1
TRACED JBA	DATE		
APPROVED			

**LEWES RIVER**

*R. W. Cox*



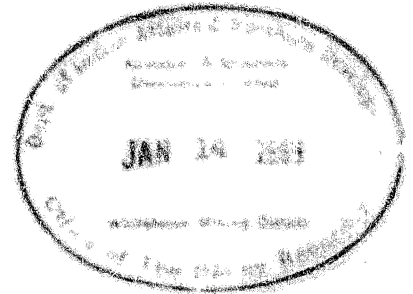
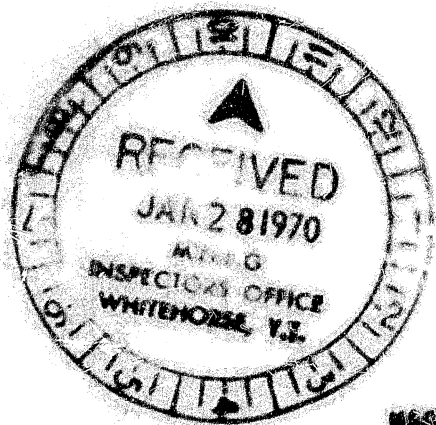
DRAWN JBA	SCALE 1"=400'	CANEX AERIAL EXPLORATION LTD.	MAGNETOMETER SURVEY GRID 1
TRACED JBA	DATE	<b>LEWES RIVER</b>	
APPROVED	RDC'S IN 3'S		

# CANEX AERIAL EXPLORATION LTD

DIVISION OF CANADIAN EXPLORATION LIMITED

700 BURREARD BUILDING

VANCOUVER 5 B C CANADA



## GEOPHYSICAL REPORT

### MAGNETOMETER SURVEY FOR

LEWIS RIVER MINES LIMITED (N.P.L.)

WHITEHORSE AREA; 60° 36', 134° 45'

CLAIMS: AZ, AC, AD, B.C., C.C., A.F.,

E.Z., TOADSTOOL, RED DEER, HULK, PUTA,

MILK AND CUB

GRID 2

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

DECEMBER 1969

This report has been examined by the Geological Evaluation Unit and is recommended to the Commission to be considered as representation work to the act of

S. 6/190

D.B. Craig, R.G.

Considered as representation work under Section 53 (9) Yukon Quartz Mining Act

[Signature]  
Commissioner of Yukon Territory

### PREVIOUS WORK

There was no previous work on this portion of the claim block except a low level helicopter magnetometer survey.

### PRESENTATION OF RESULTS

The magnetometer survey was carried out along 35.72 miles of line with readings taken every 100 feet. A map (scale 1" = 400') showing the position of the out lines in relation to the claim boundaries is included in the folder at the back of this report.

The corrected and contoured results of the magnetometer survey are shown on two enclosed maps (scale 1" = 400'). The results were contoured on 100 gamma intervals.

### DISCUSSION OF RESULTS

The area of Grid 2 had values between 800 and 2300 gammas with the average being around 1000 gammas. A pronounced high was detected at the south-eastern corner of the grid. No explanation for this high can be given at this time.

### CONCLUSIONS

It was concluded that the area of the magnetic high should be further investigated and that an Induced Polarization Survey be carried out on the entire grid area.

*R. M. Cannon, P. Eng.*  
R. M. CANNON, P. Eng.



MAGNETOMETER SURVEY FOR GRID 2

Dates worked - December 1, 2, 3, 4, 5, 7, 8, and 9, 1969.

Men days - J. Alben 8 days  
D. Fenner 8 days  
16 men days

Transportation Costs = \$ 225.00

Rental of Jelandor Magnetometer

@ \$300/month - 8/30 X \$300.00 = \$ 80.00

Labour - 8 X \$22.62 = \$ 180.96

8 X \$23.81 = \$ 190.48

Accommodation at Shannon Motel -

8 X \$16.00 = \$ 128.00

Board Cost -

@ \$10.00/day/man - 16 X \$10.00 = \$ 160.00

Compensation, Administration, Supervision = \$ 80.00

\$ 1,044.44

Line-cutting by White, Mosford & Insey Ltd. -

Base line 4.24 miles @ \$250/mile = \$ 1,061.00

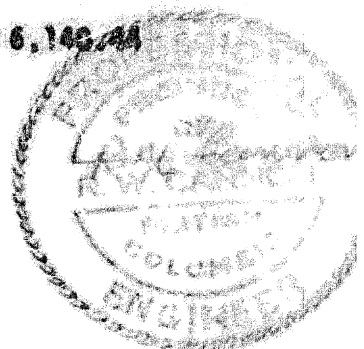
31.48 miles of picket line @ \$125/mile = \$ 3,935.00

Ties to claim posts and grids = \$ 160.00

Cost of Line-cutting = \$ 5,096.00

TOTAL = \$ 6,140.44

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



# White, Hosford & Imprey Limited

LEGAL SURVEYS      ENGINEERING

Whitehorse, Yukon

Paul S. White, P. Eng., A.L.S., B.L.S.  
E. Stuart Hosford, A.L.S., B.L.S.  
Hugh I. Imprey, A.L.S., B.L.S., S.M.A.S., B.L.S.

14 November 1969.

## INVOICE ON ACCOUNT

WITH: CANEX AERIAL EXPLORATION LTD.  
800 BURRARD BUILDING  
VANCOUVER 5, B.C.

TO: Base line and picket line cutting, stationing and  
chaining on Lewes River Mines Ltd. property near  
Whitehorse, Y.T.

- a) 10.61 miles baseline @\$250.00/mile  
    Invoiced October 27, 1969
- b) 26.6 miles picket line @\$125.00/mile      \$3325.00  
    Completed Grid 3

TOTAL PHYSICAL WORK      \$3325.00

Our Invoice Nbr. 161-69W

ORDER No.	_____
RECEIVED BY	_____
DATE	_____
CHECKED WITH ORDER	_____
EXTENSIONS C/ORDER	_____
PRICE APPROVED	_____
APPROVED FOR PAYMENT	<i>V.A. Howard</i>
CHARGED TO	<i>V-112</i>

Third Ave.

# White, Hosford & Imprey Limited

LEGAL SURVEYS      ENGINEERING

Whitehorse, Yukon

V-112

Paul S. White, P. Eng., A.L.S., D.L.S.  
A. Edwin Hosford, A.L.S., S.C.L.S.  
Hugh T. Imprey, A.L.S., S.L.S., M.L.S., D.S.L.

27 October 1969.

## INVOICE ON ACCOUNT

WITH: CANEX AERIAL EXPLORATION LTD.  
800 BARRARD BUILDING  
VANCOUVER 5, B.C.

TO: Base line and picket line cutting,  
stationing, and chaining on Lewes  
River Mines Ltd. property near  
Whitehorse, Y.T.

a) 10.61 miles baseline @ \$250.00/mile	\$ 2652.50
Completed base line on Grids 2 and 3	
b) 31.48 miles picket line @ \$125.00/mi.	3935.00
Completed Grid 2	
c) Ties to claim posts and grids	100.00
<b>TOTAL PHYSICAL WORK</b>	<b>\$ 6687.50</b>

OUR INVOICE NBR. 159-69W

ORDER NO.	_____
RECEIVED BY	_____
DATE	_____
CHECKED WITH ORDER	_____
EXTENSION CHECKED	_____
PRICE APPROVED	_____
APPROVED FOR PAYMENT	_____
CHARGED TO	K-112 <i>Account Pay.</i>

# REPORT ON THE MAGNETOMETER SURVEY

## GRID 2

### WHITEHORSE AREA, Y.T.

#### LEWIS RIVER MINES LIMITED (N.P.L.)

#### INTRODUCTION

A magnetometer survey and line-cutting was carried out on a portion of the claims held by Lewis River Mines Limited (N.P.L.) during the months of November and December 1969.

This survey and line-cutting covered the claim area North of Whitehorse and East of the Yukon River. A total of 35.72 miles of line was run with the magnetometer. The lines were cut north-east at 300 foot intervals with stations marked every 100 feet.

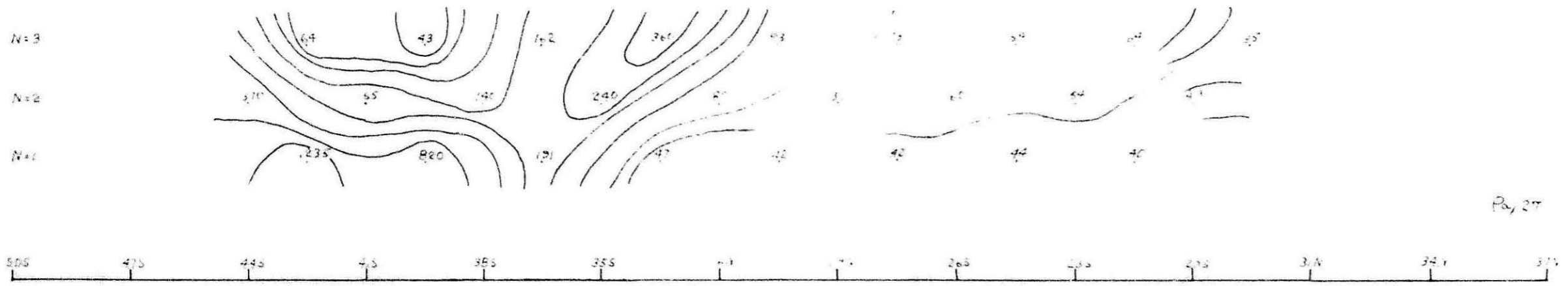
The magnetometer survey was carried out using a Jaeger vertical flux-gate type of magnetometer (Model 4505), which has an accuracy of  $\pm 10$  gammas.

#### LOCATION AND ACCESS

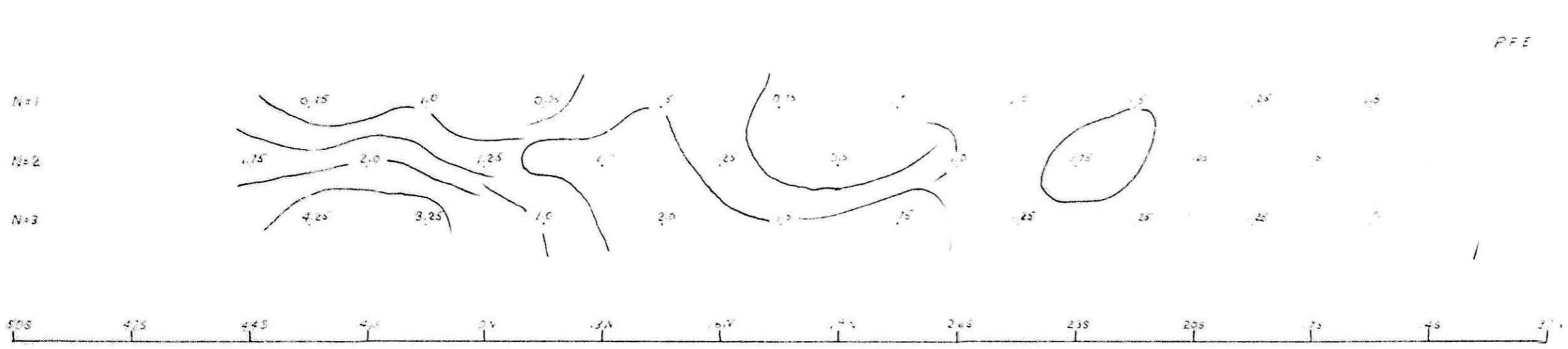
The property is located to the east of the City of Whitehorse and lies parallel to the Yukon River. Grid 2 is located north of Whitehorse and east of the Yukon River. Most of the Lewis River property is accessible via bush road from Whitehorse.

#### PROPERTY

The property consists of 478 contiguous claims with the following names: AZ, AC, AD, B.C., C.C., A.F., E.Z., Toadstool, Red Deer, Hulk, Puta, Hill and Cub.



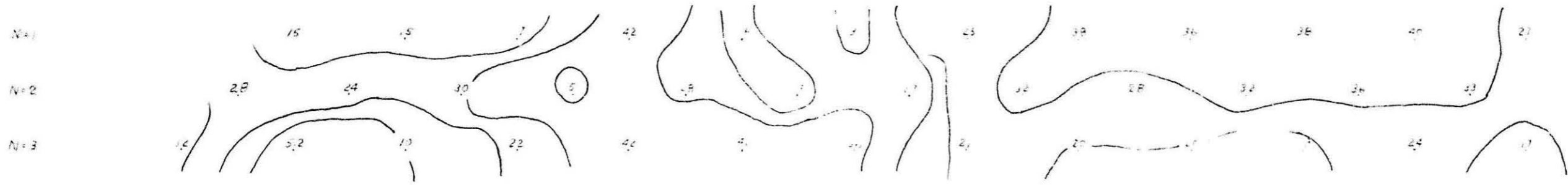
Pay 27



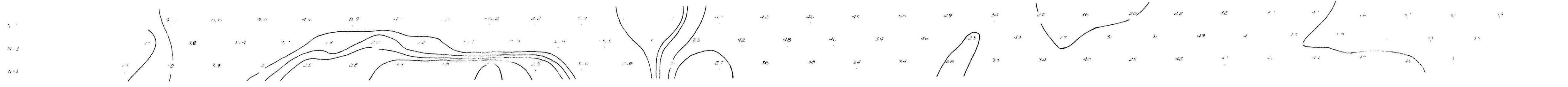
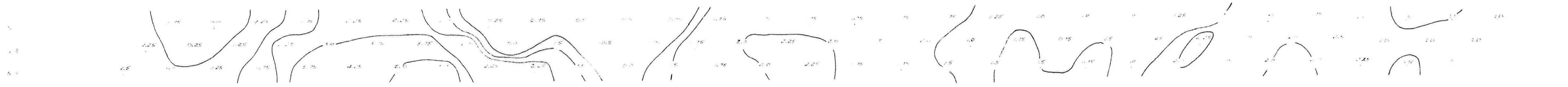
PFE

**LEWES RIVER MINES**

LINE 8+00W  
 DIPOLE DIPOLE CONFIGURATION  
 FREQUENCIES 0.31 + 50.0 DS  
 X = 300'  
 CANEX AERIAL EXPLORATION LTD.  
 DRAWN BY: R. CANNON  
 DATE: OCTOBER, 1969



R. Cannon



LEWES RIVER MINES

LINE 12+00 W

DIPOLE DIPOLE CONFIGURATION

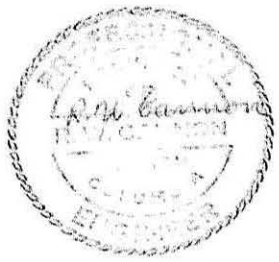
FREQUENCIES 0.31 + 50 (Hz)

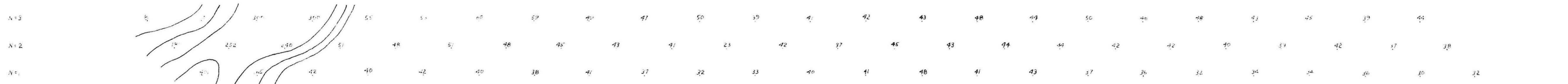
X = 300'

CANEX AERIAL EXPLORATION LTD.

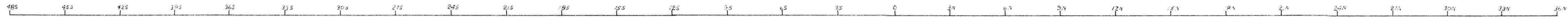
DRAWN BY R. CANNON

DATE: OCTOBER, 1969





P.F.E.



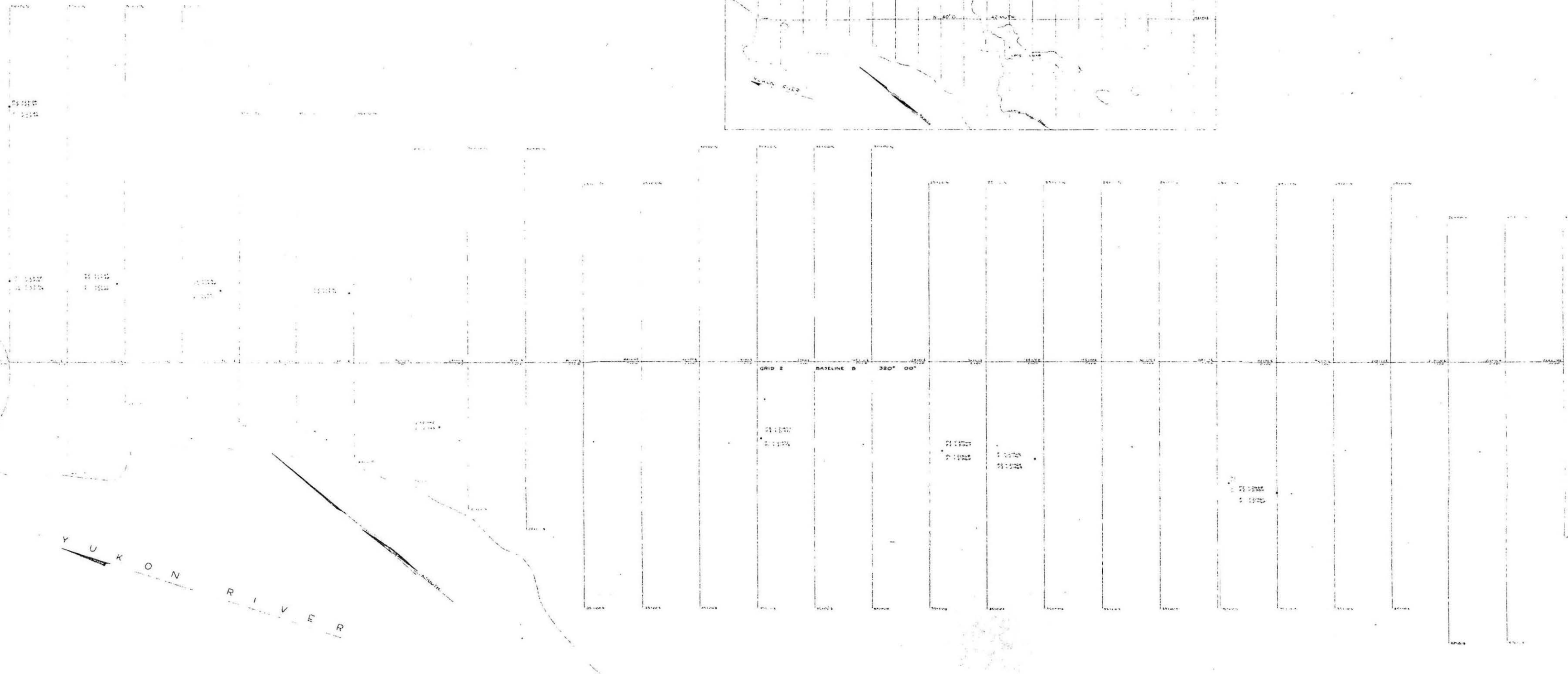
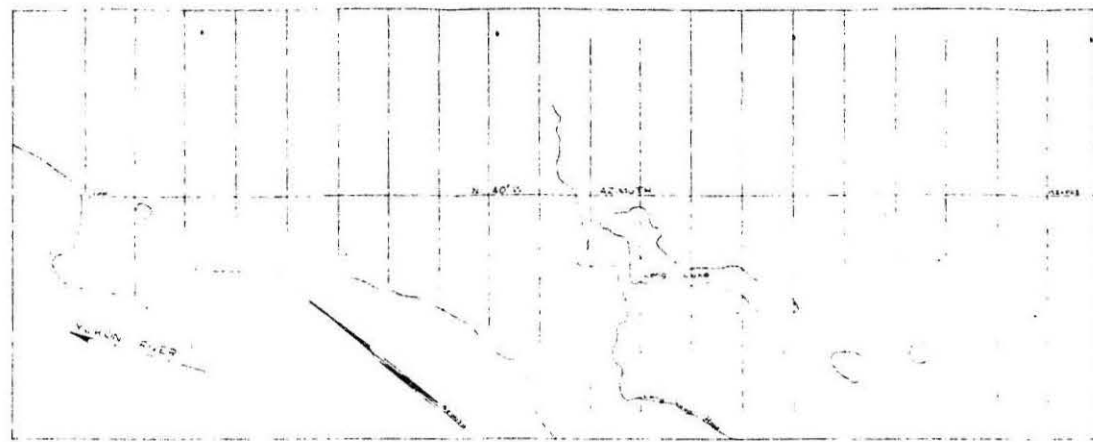
P.F.E.

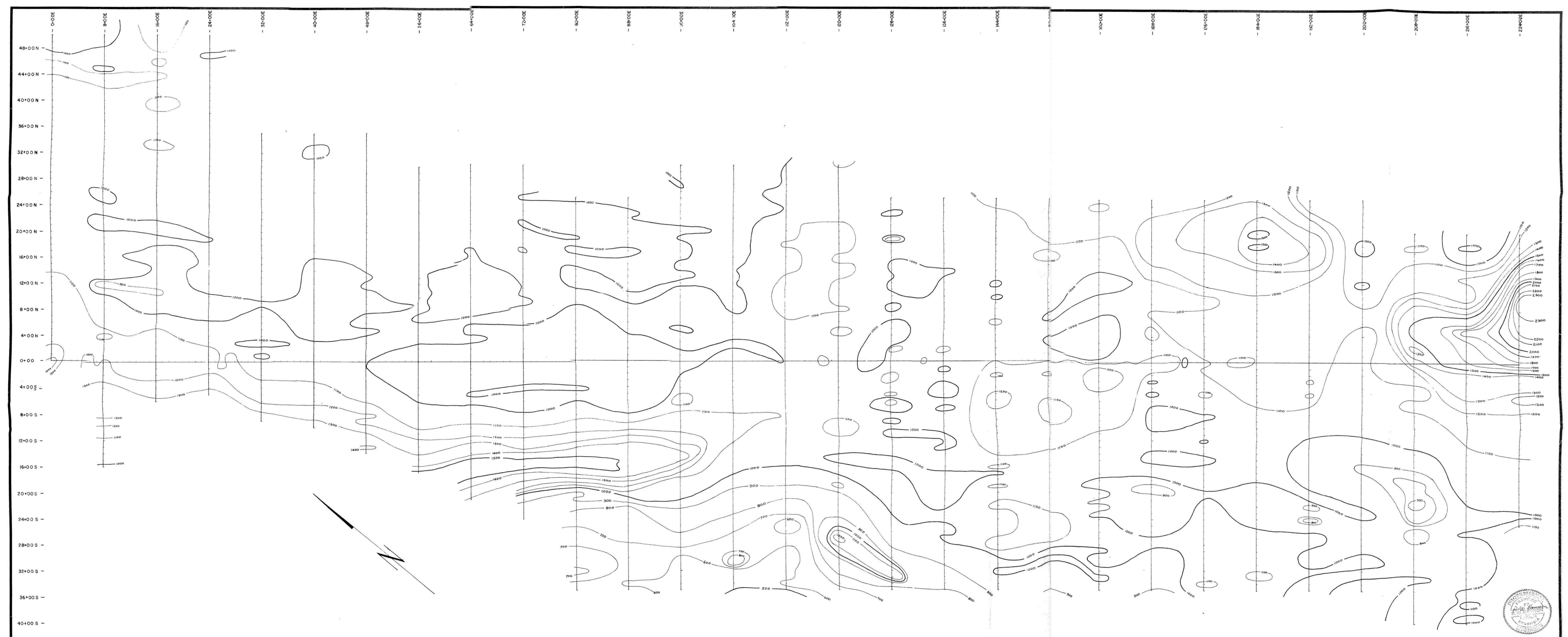




PLAN SHOWING LOCATION AND  
LAYOUT OF  
**GRID 2** for  
CANEX AERIAL EXPLORATIONS LTD.  
ON LEWES RIVER PROPERTY  
NEAR WHITEHORSE Y.T.

DATE: OCTOBER, 1969.  
SCALE: 1" = 800'





DRAWN JBA	SCALE 1"=400'	CANEX AERIAL EXPLORATION LTD.	MAGNETOMETER SURVEY GRID 2
TRACED JBA	DATE 6-1-70		
APPROVED	<b>LEWES RIVER</b>		FILE NO.

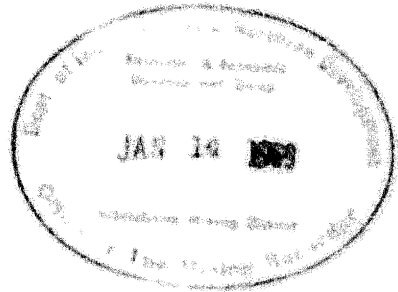
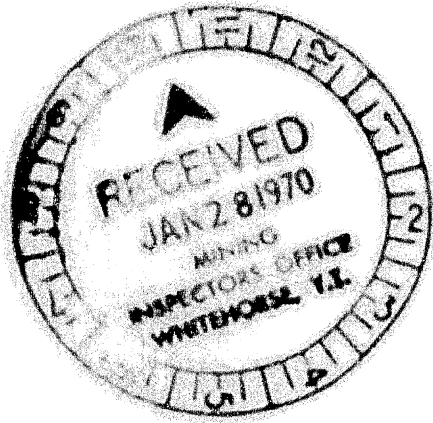


# CANEX AERIAL EXPLORATION LTD.

DIVISION OF CANADIAN EXPLORATION LIMITED

700 BARRARD BUILDING

VANCOUVER 5, B.C. CANADA



## GEOPHYSICAL REPORT

### MAGNETOMETER SURVEY FOR

LEWES RIVER MINES LIMITED (N.P.L.)

WHITEHORSE AREA; 60° 35', 134° 45'

CLAIMS: A2, AC, AD, B.C., C.C., A.F.,

E.Z., TOADSTOOL, RED DEER, HULK, PUTA,

MILK AND CUB

GRID 3

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

DECEMBER 1969

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representative work in the amount of

\$5,440

D. Craig, R.G.  
Inspector or  
District Inspector

Conditioned under the work under  
Section 93 (4) of the Yukon Mining Act.

[Signature]  
Commissioner of Yukon Territory

MAGNETOMETER SURVEY FOR GRID 3

Dates worked - December 10, 11, 12 and 13, 1969.

Man days - J. Aisen 4 days  
D. Penner 4 days  
8 man days

Transportation Costs \$ 112.50

Rental of Jalander Magnetometer

0 \$300/month - 4/30 X \$300.00 \$ 40.00

Labour - 4 X \$22.62 \$ 90.48

4 X \$23.81 \$ 95.24

Accommodation at Shannon Hotel -

4 X \$16.00 \$ 64.00

Board Cost @ \$10/day/man - 8 X \$10.00 \$ 80.00

Compensation, Administration, Supervision -

0 \$5.00/day/man - 8 X \$5.00 \$ 40.00

TOTAL COST OF MAG. SURVEY \* \$ 522.22

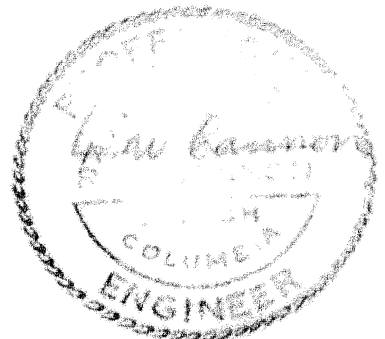
Line-cutting by White, Hoeford & Impay Ltd.

Base line 6.37 miles @ \$250.00/mile \$ 1,591.50

25.6 miles of picket line @ \$125.00/mile \$ 3,225.00

\$ 5,438.72

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



Third Ave.

# White, Hosford & Impey Limited

LEGAL SURVEYS      ENGINEERING

V-112

Whitehorse, Yukon

Paul E. White, P. Eng., A.L.S., D.L.S.  
A. Deane Hosford, A.L.S., D.L.S.  
Hugh E. Impey, A.L.S., R.L.S., B.L.S., D.L.S.

27 October 1969.

## INVOICE ON ACCOUNT

WITH: CANEX AERIAL EXPLORATION LTD.  
800 BARRARD BUILDING  
VANCOUVER 5, B.C.

TO: Base line and picket line cutting,  
stationing, and chaining on Lewes  
River Mines Ltd. property near  
Whitehorse, Y.T.

- a) 10.61 miles baseline @ \$250.00/mile      \$ 2652.50  
Completed base line on Grids 2 and 3
- b) 31.48 miles picket line @ \$125.00/mi.      3935.00  
Completed Grid 2
- c) Ties to claim posts and grids      100.00

TOTAL PHYSICAL WORK      \$ 6687.50

OUR INVOICE NBR. 159-69W

ORDER NO.	_____
RECEIVED BY	_____
DATE	_____
CHECKED WITH ORDER	_____
EXTENSION CHECKED	_____
PRICE APPROVED	_____
APPROVED FOR PAYMENT	_____
CHARGED TO	_____

*RECEIVED*  
*G.E. Accounts Pay.*

Third Ave.

# White, Hosford & Imprey Limited

LEGAL SURVEYS      ENGINEERING

Whitehorse, Yukon

Paul K. White, P. Eng., A.C.S., B.L.S.  
A. Lewis Hosford, A.C.S., B.L.S.  
Hugh E. Imprey, A.C.S., B.L.S., M.L.S., B.L.S.

14 November 1969.

## INVOICE ON ACCOUNT

WITH: CANEX AERIAL EXPLORATION LTD.  
800 BURRARD BUILDING  
VANCOUVER 5, B.C.

TO: Base line and picket line cutting, stationing and  
chaining on Lewes River Mines Ltd. property near  
Whitehorse, Y.T.

- a) 10.61 miles baseline @\$250.00/mile  
    Invoiced October 27, 1969
- b) 26.6 miles picket line @\$125.00/mile      \$3325.00  
    Completed Grid 3

TOTAL PHYSICAL WORK	\$3325.00
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Our Invoice Nbr. 161-69W

ORDER No. _____
RECEIVED BY _____
DATE _____
CHECKED WITH CHECK _____
EXTENSION OF CONTRACT _____
PRICE APPROVED _____
APPROVED FOR PAYMENT <i>B.A. Howard</i>
CHARGED TO <i>V-112</i>

TABLE OF CONTENTS

INTRODUCTION	1
LOCATION AND ACCESS	1
PROPERTY	1
PREVIOUS WORK	2
PRESENTATION OF RESULTS	2
DISCUSSION OF RESULTS	2
CONCLUSIONS	2

ILLUSTRATIONS

LOCATION MAP	IN POCKET
MAGNETOMETER MAP WITH VALUES	IN POCKET

REPORT ON THE MAGNETOMETER SURVEY

GRID 3

WHITEHORSE AREA, Y.T.

LEWIS RIVER MINES LIMITED (N.P.L.)

INTRODUCTION

A magnetometer survey and line-cutting was carried out on a portion of the claims held by Lewis River Mines Limited (N.P.L.) during the months of November and December 1969.

The survey covered the area of Grid 3 which lies over the frozen lakes in the vicinity of Chadburn Lake. This survey was carried out along a total of 10.62 miles of cut line. The lines were cut north-east at 800 foot intervals with stations marked every 100 feet.

The magnetometer survey was carried out using a Jalander vertical flux-gate type of magnetometer (Model W505) which has an accuracy of  $\pm 10$  gammas.

LOCATION AND ACCESS

The property is located to the east of the City of Whitehorse and lies parallel to the Yukon River. Grid 3 is located south-east of the City of Whitehorse and east of the Yukon River. Most of the Lewis River property is accessible via bush road from Whitehorse.

PROPERTY

The property consists of 478 contiguous claims with the following names: AZ, AC, AD, B.C., C.C., A.F., E.Z., Toadstool, Red Deer, Hulk, Puta, Milk and Cub.

PREVIOUS WORK

There was no previous work on this portion of the claim block except a low level helicopter magnetometer survey.

PRESENTATION OF RESULTS

The ground magnetometer survey was carried out along 10.62 miles of line with readings taken every 100 feet.

The corrected and contoured results of the magnetometer survey are shown on two enclosed maps (scale 1" = 400'). The results were contoured on 100 gamma intervals.

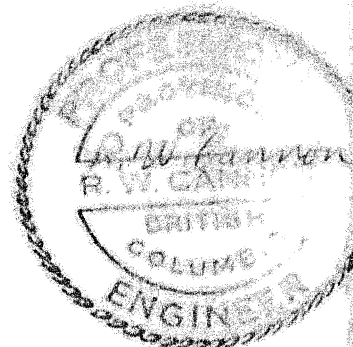
DISCUSSION OF RESULTS

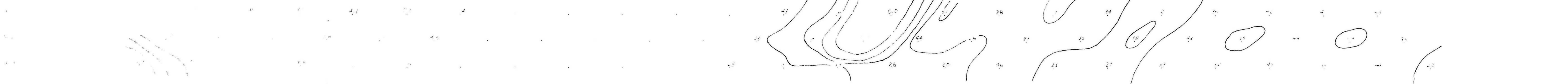
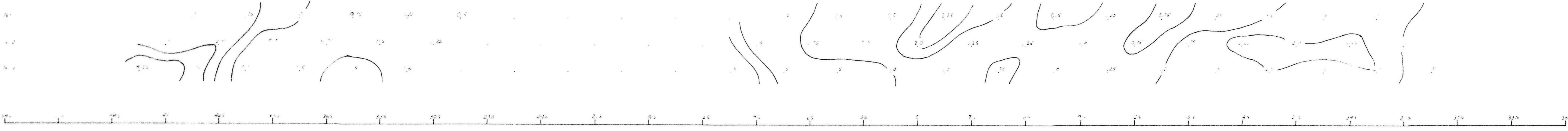
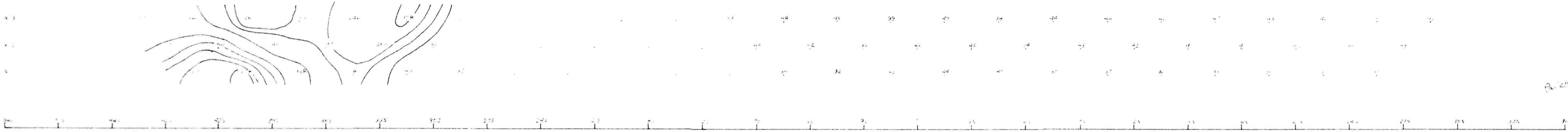
The ~~limited~~ results on Grid 3 show a slight high in the southern portion of the grid which may indicate the intrusive contact. A better evaluation can be given when the ground survey is completed in the Spring.

CONCLUSIONS

It was concluded that the favourable contact may run through the southern part of Grid 3.

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



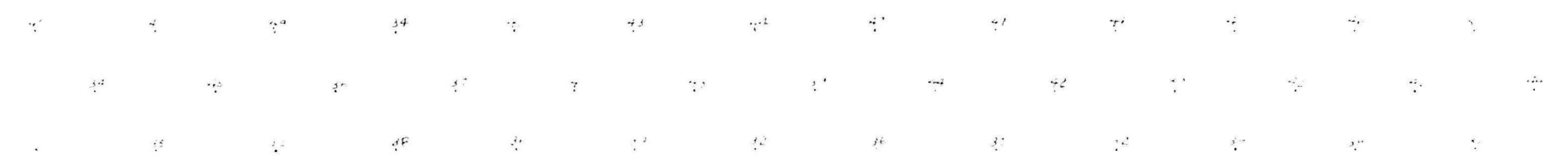
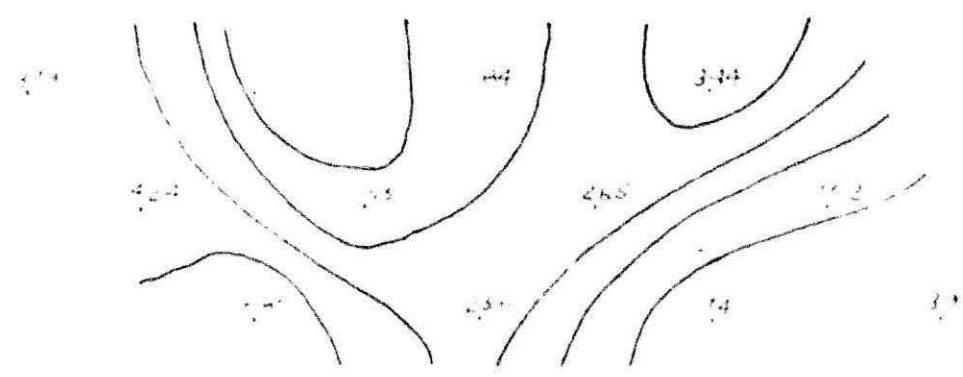


**LEWES RIVER MINES**

LINE: 20+00 W  
 DIPOLE DIPOLE CONFIGURATION  
 FREQUENCY: 0.1 & 1.0 cps  
 X = 300'

CANEX AERIAL EXPLORATION LTD  
 DRAWN BY: R CANNON  
 DATE: OCTOBER, 1969

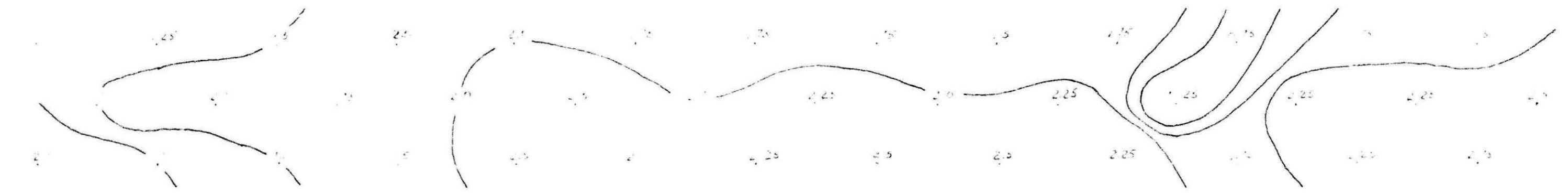
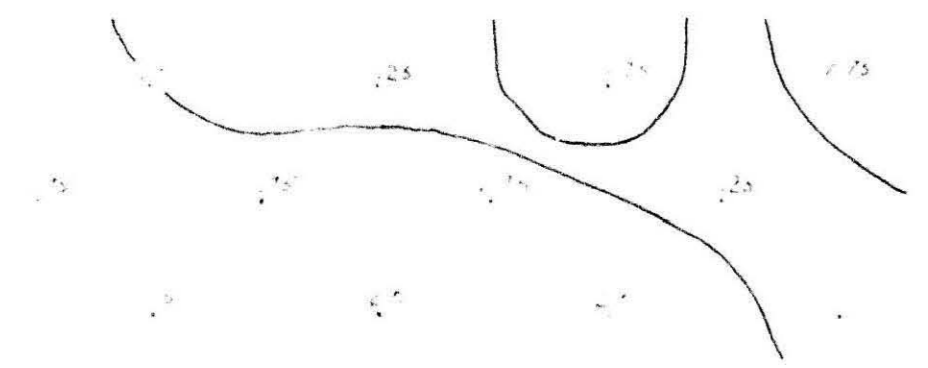




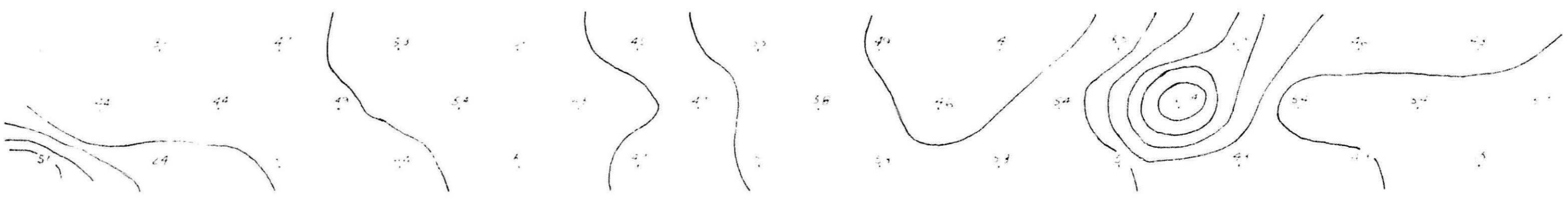
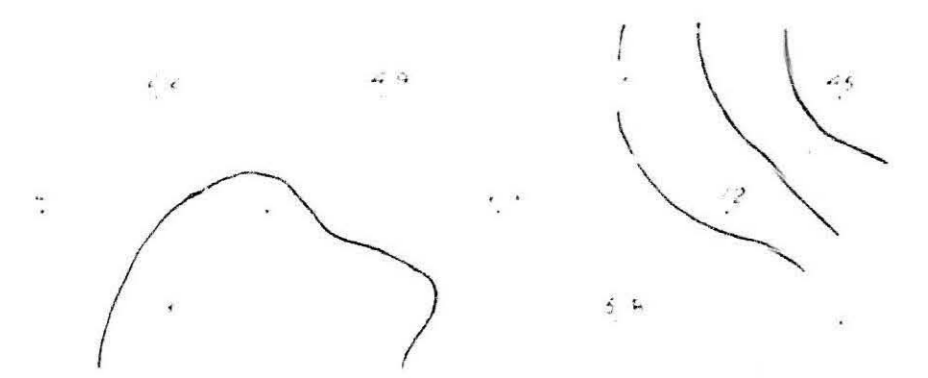
20/20



P.F.E

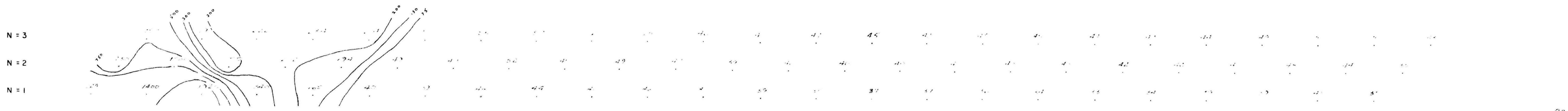


20/20

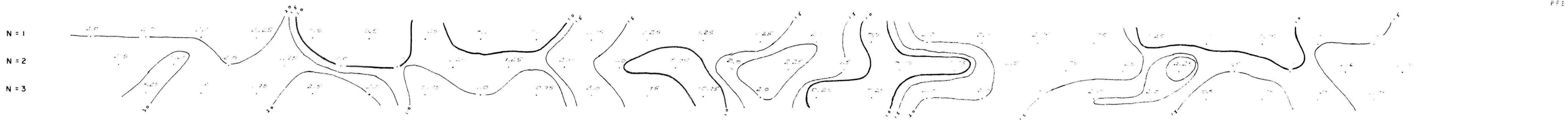
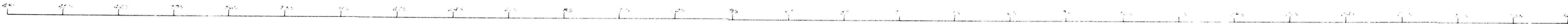


**LEWES RIVER MINES**  
 LINE 24+00 W  
 DISTRICT ENGINEERING  
 CANEX AERIAL EXPLOATION LTD.  
 DRAWN BY R CANNON  
 DATE: OCTOBER, 1969

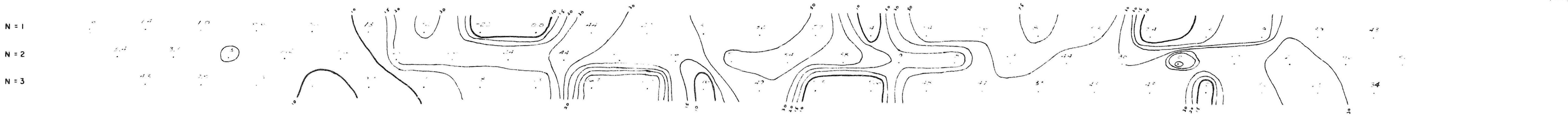
R. Cannon



pa, 21



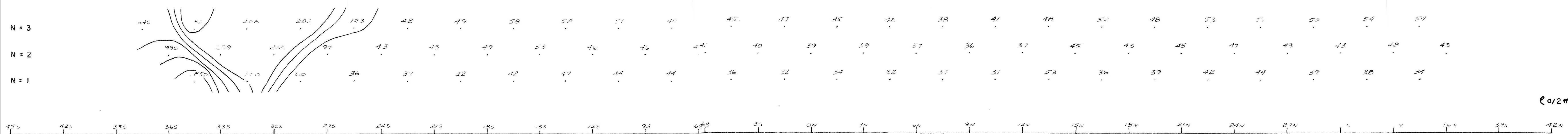
PFE



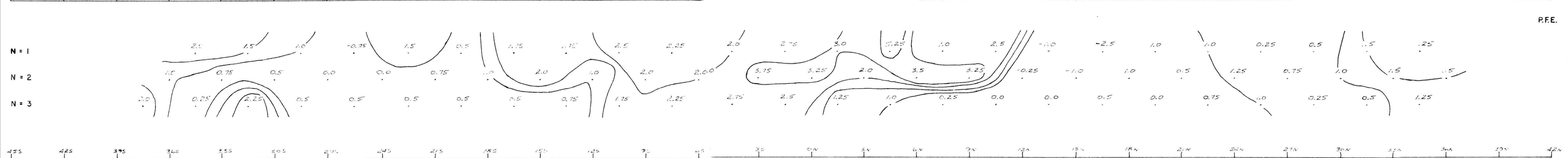
(M.F.)a

**LEWES RIVER MINES**  
 LINE: 28 + 00W  
 DIPOLE DIPOLE CONFIGURATION  
 FREQUENCIES 0.31 + 50 cps  
 X = 300'  
**CANEX AERIAL EXPLORATION LTD.**  
 DRAWN BY: D. PENNER  
 DATE: OCTOBER 1969

D. Penner



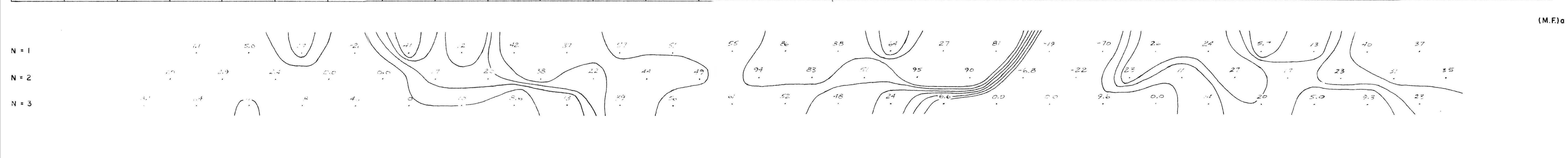
1/2"



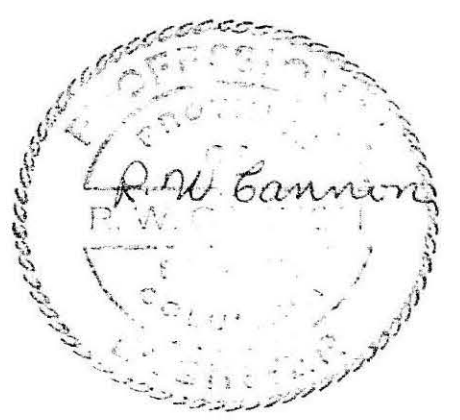
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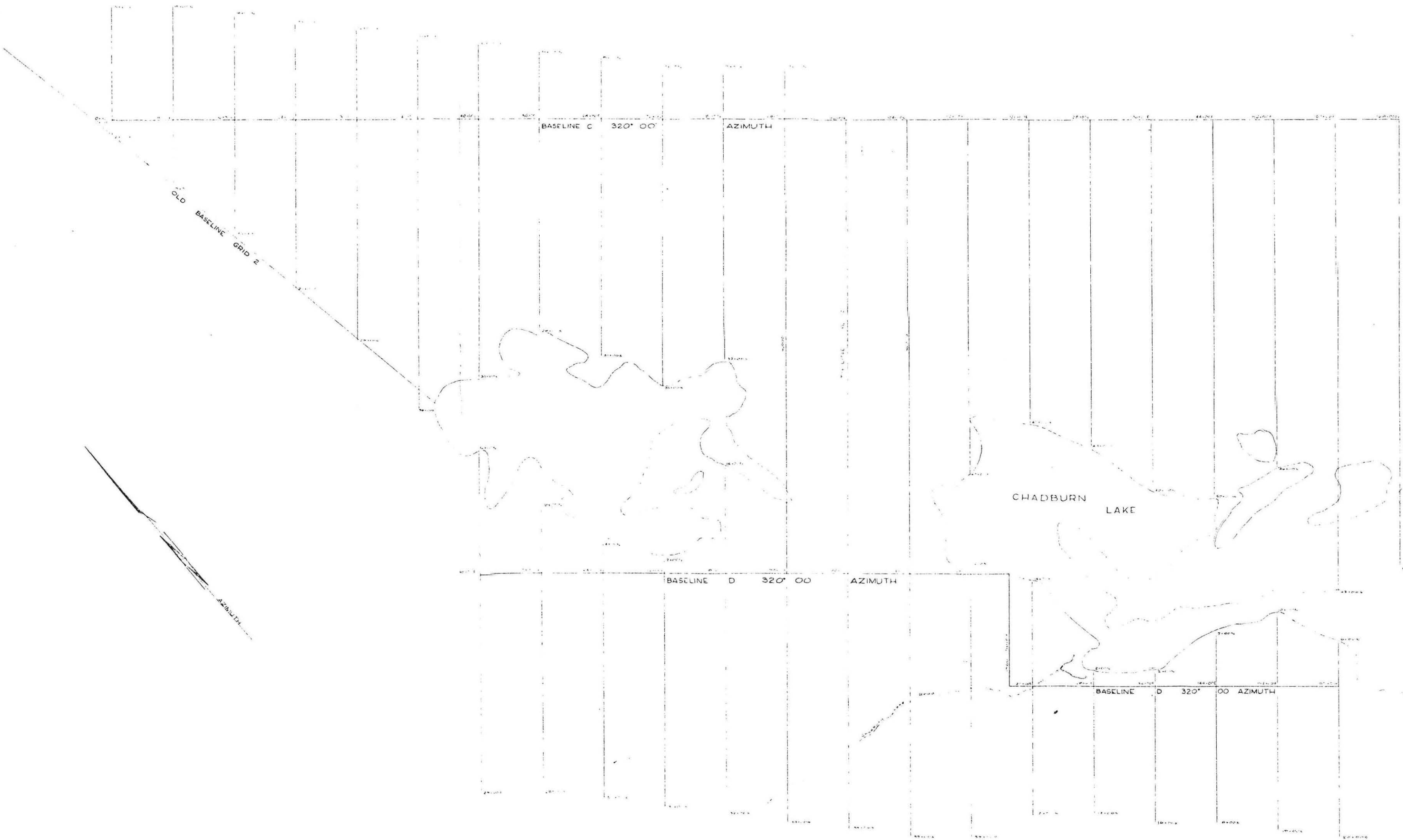
**LEWES RIVER MINES**

LINE: 36+00W  
 DIPOLE - DIPOLE CONFIGURATION  
 FREQUENCIES 361 + 30 cps  
 X = 300'  
 CANEX AERIAL EXPLORATION LTD.  
 DRAWN BY: D. PENNER  
 DATE: NOVEMBER 1969



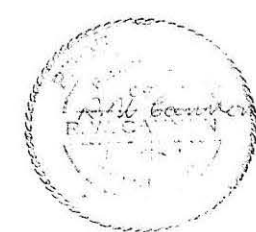
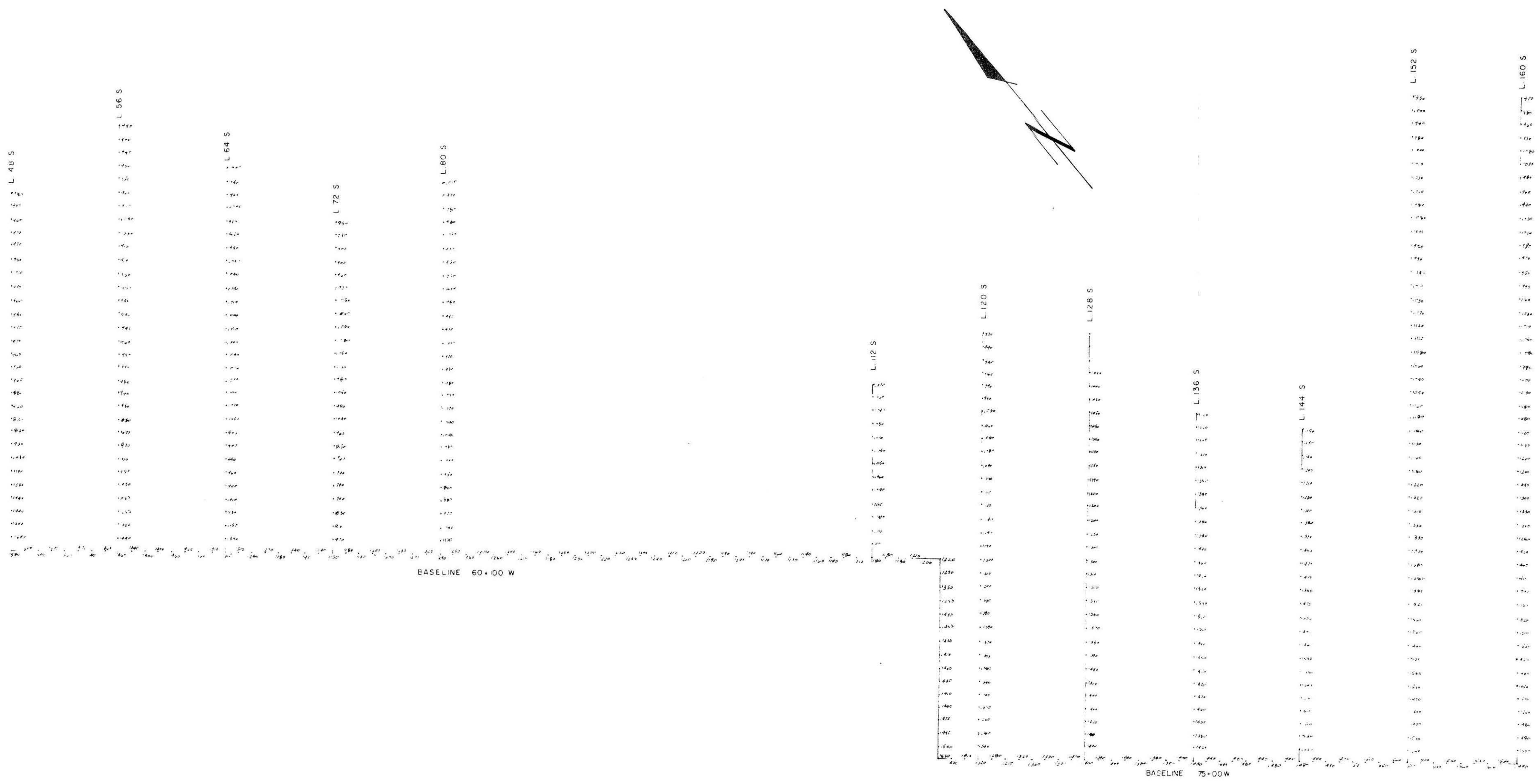
(M.F.)a





PLAN SHOWING LOCATION AND  
LAYOUT OF  
GRID 3 for  
CANEX AERIAL EXPLORATIONS LTD.  
ON LEWES RIVER PROPERTY  
NEAR WHITEHORSE YT  
DATE: OCTOBER, NOVEMBER 1969  
SCALE: 1" = 800'

R.W. Cannon



DRAWN JBA	SCALE 1" = 400'	CANEX AERIAL EXPLORATION LTD.	MAGNETOMETER SURVEY GRID 3
TRACED	DATE 6-1-70	<b>LEWES RIVER</b>	FILE No.
APPROVED			