

Owner: Comex Aerial Exploration Ltd.

REPORT OF WORK COMPLETED IN 1968 ON
THE DONNA CLAIM GROUP
OMINECA MINING DIVISION
56° 30' 124° 55'
JUNE - AUGUST, 1968
BY B. AINSWORTH
VANCOUVER, B. C. 20 AUGUST, 1968

94C/ZW

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CANEX AERIAL EXPLORATION LTD.

DIVISION OF CANADIAN EXPLORATION LIMITED

700 BARRARD BUILDING

VANCOUVER 5, B. C. CANADA

1654

REPORT OF WORK COMPLETED IN 1968

ON

THE DONNA CLAIM GROUP

OMINECA MINING DIVISION - $56^{\circ} 30'$ $124^{\circ} 55'$

OWNED BY

CANEX AERIAL EXPLORATION LTD.

BY

B. AINSWORTH

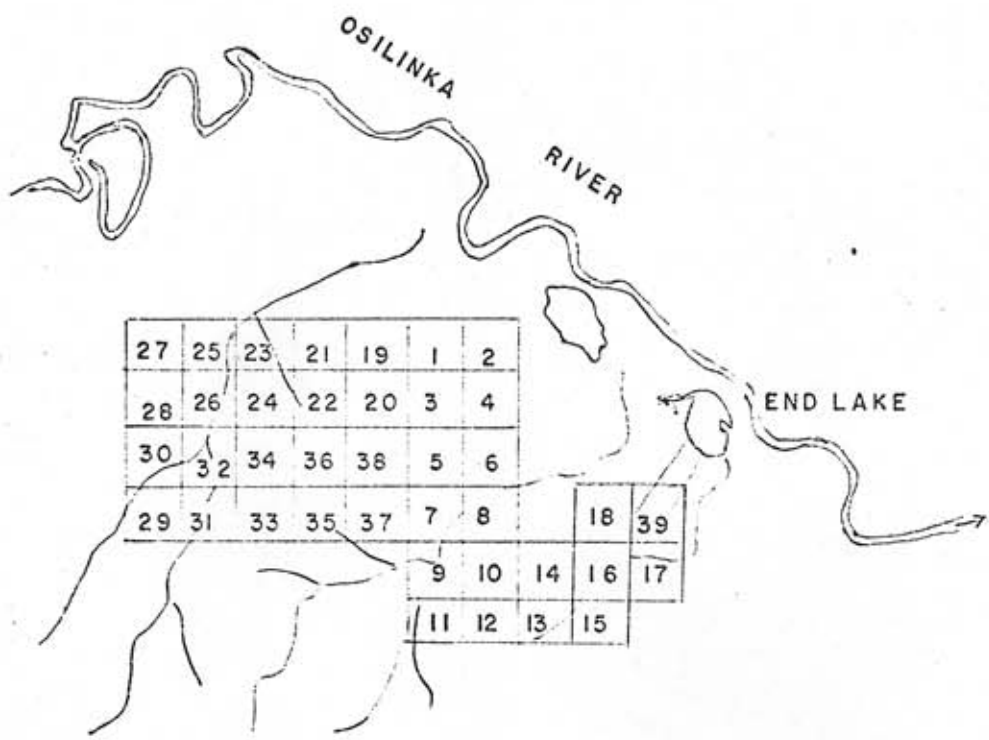
JUNE - AUGUST, 1968

B. Ainsworth

Vancouver, B. C.
20th August, 1968

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LOCATION MAP
OF
DONNA CLAIM GROUP

Scale : 1" = 1 mile.

STATEMENT OF EXPENSES

The following is a breakdown of expenses incurred in carrying out the work on the Donna Group of claims:

EM SURVEY

Helicopter	7.75 Hours @ \$100/hr.	\$ 775.00
Salaries:	R. Dickinson 5 days @ 17.31/day	86.55
	L. Tysoe 5 days @ 17.31/day	86.55
	B. Ainsworth 2 days @ 32.00/day	64.00

GEOCHEMICAL SURVEY

Helicopter	9.83 Hours @ \$100/hr.	983.00
Salaries:	R. Dickinson 4 days @ 17.31/day	69.24
	L. Tysoe 4 days @ 17.31/day	69.24
	R. Anctil 4 days @ 17.31/day	69.24
	R. Hendry 4 days @ 15.38/day	61.52
	B. Ainsworth 2 days @ 32.00/day	64.00
Assaying of samples for silver -	276 samples @ 1.55 each	427.80

TRENCHING

Helicopter	4 Hours @ 100/hr.	400.00
Salaries:	B. Ainsworth 2 days @ 32.00/day	64.00
	S. Tennant 2 days @ 32.00/day	64.00

LINE CUTTING

Helicopter	7.66 Hours @ 100/hr.	766.00
Salaries:	R. Anctil 6 days @ 17.31/day	103.86
	R. Hendry 6 days @ 15.38/day	92.28

TOTAL \$4,246.28

Declared before me at the City
of Vancouver, in the
Province of British Columbia, this 20th
day of August 1968 A.D. B. Ainsworth

INTRODUCTION

During the period June 13th to July 21st, geochemical and E.M. surveys were carried out over part of the Donna group of claims. A small amount of trenching was also done. A reconnaissance geochemical survey undertaken in the 1967 field season indicated a fairly widespread area of lead-zinc-silver mineralization. Thirty-nine claims were staked to cover the area of interest.

Detailed soil sampling was carried out by two two-man crews flown into the property by helicopter daily. 276 soil samples were collected and sent to Vancouver for assay for silver by the Canex Aerial Exploration laboratory.

Following the geochemical survey an E.M. survey, using the Crone J.E.M. unit, was carried out in order to determine whether any of the geochemically interesting areas were related to fault structures.

In preparation for an induced polarization survey, to be carried out if earlier work indicated this was warranted, lines were cut over the geochemically anomalous areas.

TOPOGRAPHY AND VEGETATION

The Donna claims are situated on the flank of a mountain range rising to the west of the Osilinka River. Elevations range from 2800 feet in the Osilinka Valley to 5000 feet on the mountain slope. Vegetation on the claim group is in part dense second growth of jackpine over an old burn area and in part more mature growth of spruce and balsam up to 50 feet in height.

TRANSPORTATION

A Hiller 12E helicopter was used to fly crews into the property daily. This machine was leased to Canex Aerial Exploration by Okanagan Helicopters Ltd. Operating costs were charged at a rate of \$100 per hour exclusive of fuel costs.

SURVEYING

A base line was established along the claim line for claims Nos. 1 - 4 and 19 - 28. In 1967 sample lines were run on 500 foot

intervals at right angles to this base line. In 1968 intermediate lines were run at 250 foot intervals and an easterly extension of the grid was made with lines 250 feet apart. Stations were marked at 100 foot intervals along the sample lines. All surveying was carried out with a Brunton Compass and nylon chain.

GEOCHEMICAL SURVEY

a) Sampling Method

Samples were taken in the "B" horizon, a rusty horizon ranging from 4" to 12" in depth over the area sampled. Little glacial cover was encountered so the soil was generally considered a standard residual type.

b) Assay Method

Samples were dried in a hot air drier then sifted in -80 mesh nylon sieves. Portions of the -80 mesh fractions were weighed with a torsion balance. Silver was extracted from the sample by addition of concentrated nitric acid.

Analysis was carried out using the Techtron A.A. 4 atomic absorption spectrophotometer at a wave length of 3281 \AA .

c) Results and Conclusions

The results were plotted on the 400' = 1" map in the back pocket. Two anomalous areas were indicated by the geochemical survey. The stronger blankets the area including the old Davies workings on line 27 + 50W, and ranges from 56 ppm Ag to 3 ppm Ag. The very high Ag values in soil are almost certainly due to contamination from the old blasting and trenching. The anomaly is restricted to the area in which mineralization has been found and its size (E-W 500', N-S 400') would not make a big enough target for further work.

The second anomalous area extends along the north end of lines 2 + 50W to 22 + 50W inclusive. Values range from 1.3 ppm to 12.6 ppm Ag. The spotty distribution of Ag values in the anomalous area appears to conform with the spotty mineralization seen on the ground.

Confirmation of this would be easily achieved by limited trenching on the anomalous area.

E.M. SURVEY

a) Equipment and Method

A standard J.E.M. unit was rented from Crone Geophysics Ltd., Port Credit, Ontario. The unit consists of two coils with transmitter/receiver units attached. Operators stand at stations 200 feet apart and alternately transmit and receive. After measuring the dip angles of the coils the two operators both move 100 feet along the line and read the dip angles at the new set up. The resultant dip angles are considered as located at the centre point between the two operators.

The E.M. survey was carried out on the same grid as that used for the geochemical survey, readings being taken every 100 feet along N-S lines 250 feet apart.

b) Results and Conclusions

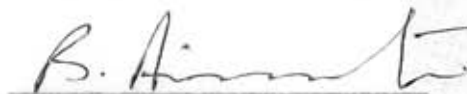
Four significant anomalies with positive resultant dip angles occur on grid lines 15E to 25E, 15W to 5W, 7 + 50W to 2 + 5W, and 17 + 50E to 27 + 50E. Positive anomalies in this case reflect the top of a conductive body close to surface. However, since they do not correlate with geochemical anomalies it is probable that conductivity contrasts in the bedrock sediments rather than conductive sulphides are the cause of the anomalies. The anomalous trends do approximately parallel stratigraphic trends on the grid area and argillic horizons known in this stratigraphic sequence could give rise to sufficient conductivity contrast.

The geochemical anomalous areas are not reflected in the E.M. survey indicating that no major structures are related to mineralization.

TRENCHING

In order to assess the known mineralization on the claim group two days were spent mucking out the trenches on the original Davies showing. The sparse occurrence of sulphides did not warrant further work of this type.

Respectfully submitted by,

A handwritten signature in cursive script, appearing to read "B. Ainsworth", is written over a horizontal line.

B. Ainsworth

CERTIFICATION

I, C. Rennie, with business address in Vancouver, British Columbia, do hereby certify that:

1. I am a professional engineer registered in the Province of British Columbia.
2. I have examined the report by B. Ainsworth, on work done in 1968, on the Donna group of claims, $56^{\circ} 30'$ $124^{\circ} 55'$, in the Quineca Mining Division.
3. To the best of my knowledge the interpretation of data and expenditure claimed for the performance of the work is correct.

Respectfully submitted,

C. C. Rennie P. Eng.

C. Rennie.


Vancouver, B. C.
20th August, 1968

STATEMENT OF QUALIFICATIONS

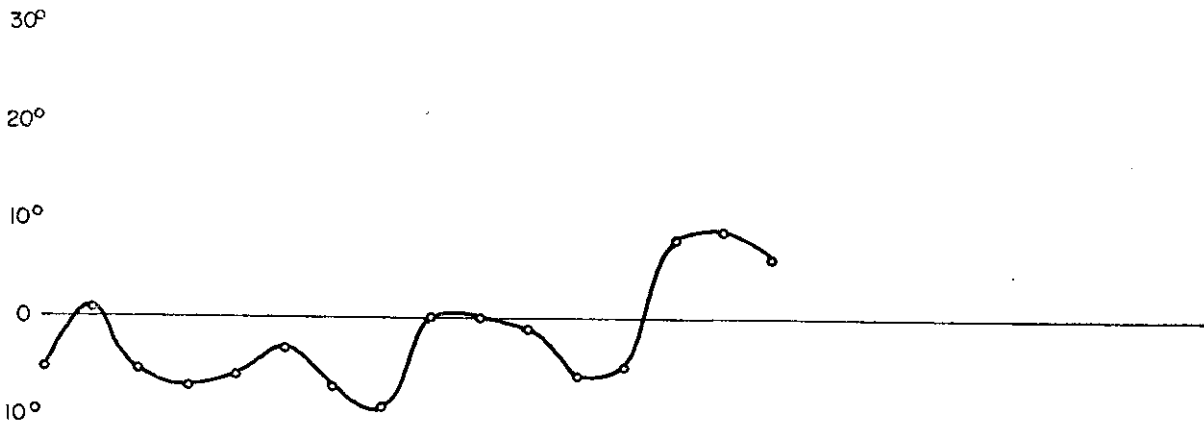
I, B. Ainsworth, with business address in Vancouver, British Columbia, and residential address in North Vancouver, British Columbia, hereby certify that:

1. I am a geologist.
2. I am a graduate of Oxford University (B.A. Geol. 1962, M.A. 1967).
3. From 1962 until 1968 I have been engaged in mineral exploration in Ireland, Ghana, British Columbia, Yukon Territory, and the Northwest Territories.
4. I personally participated in the field work and have assessed and interpreted all the data resulting from this work.

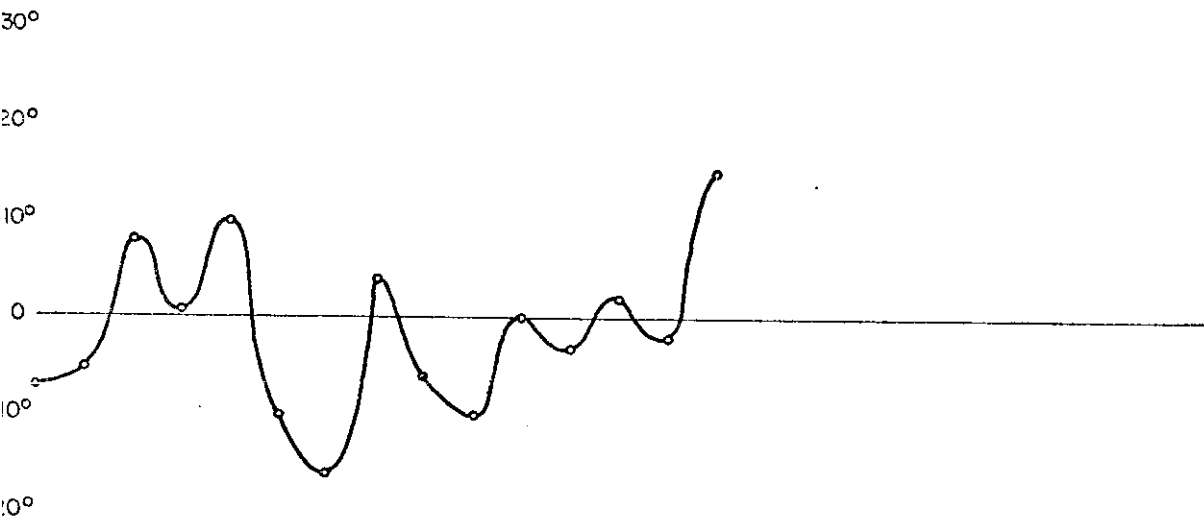
Respectfully submitted,


B. Ainsworth.

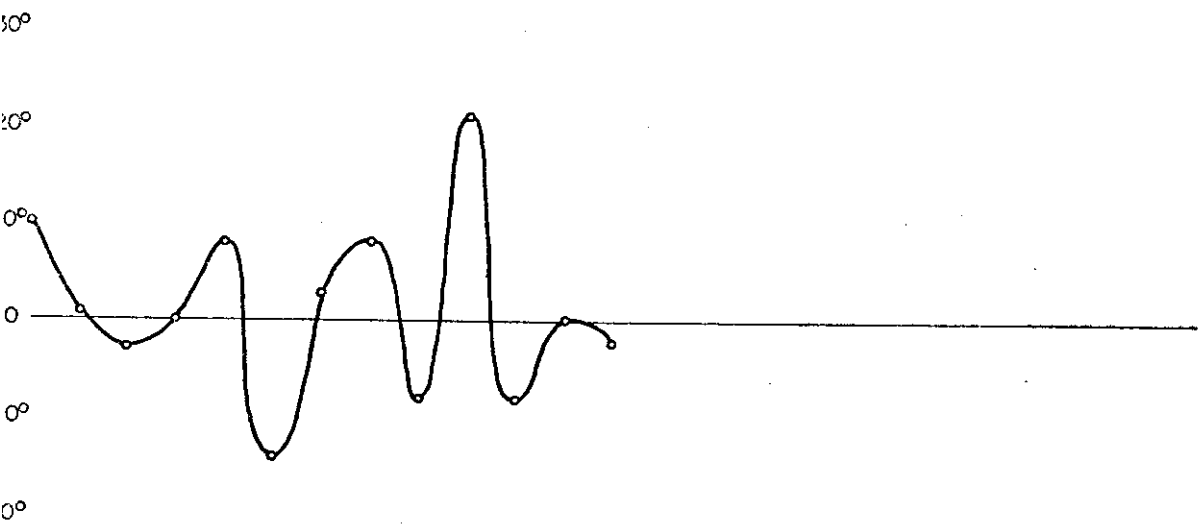
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L-0



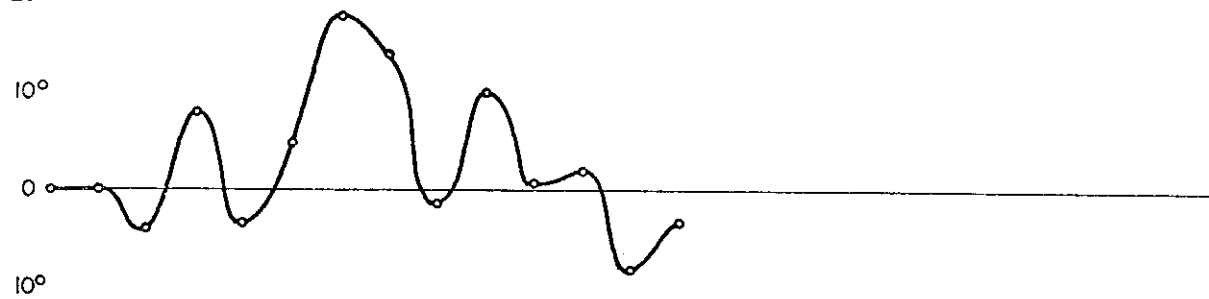
L-2+50W



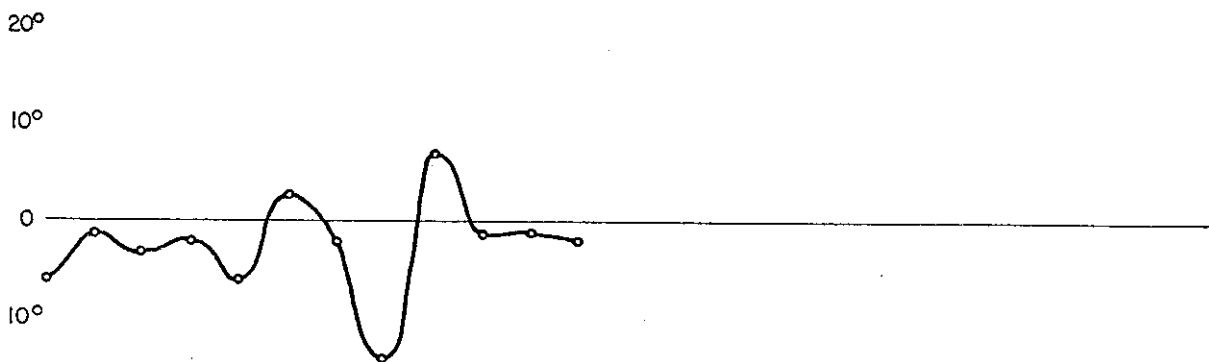
L-5W

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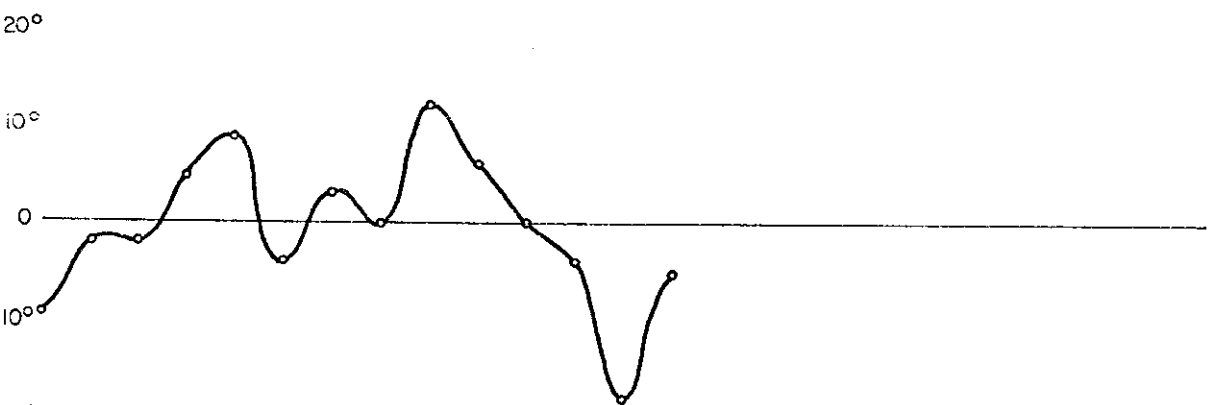
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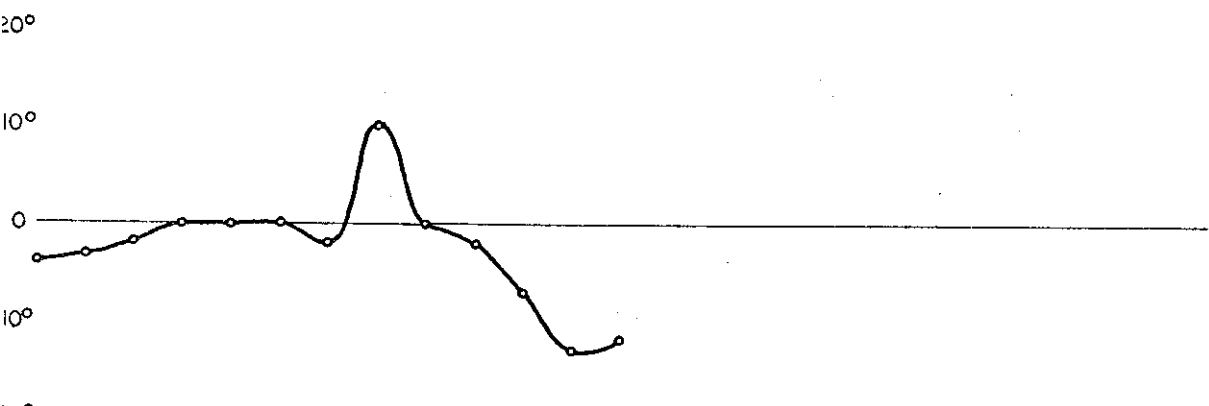
L-7+50W



L-10W



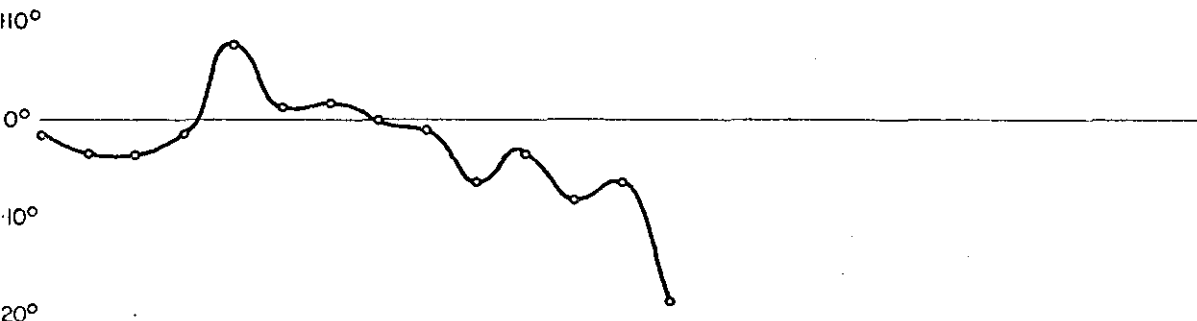
L-12+50W



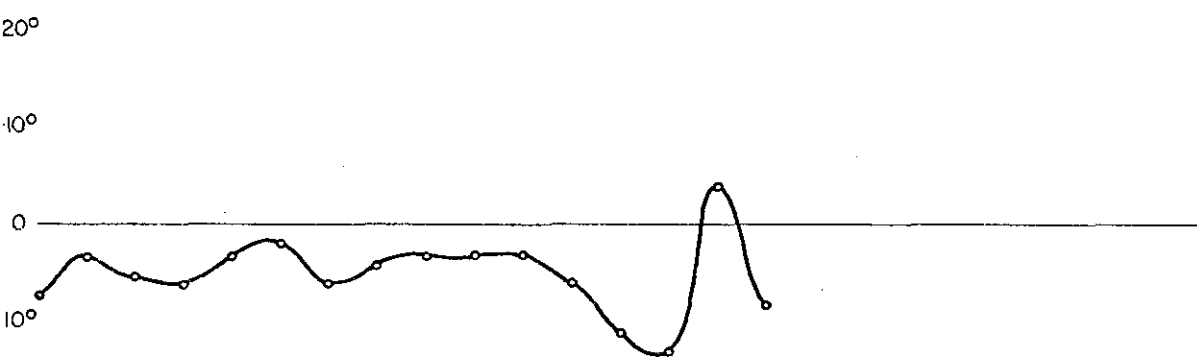
L-15W

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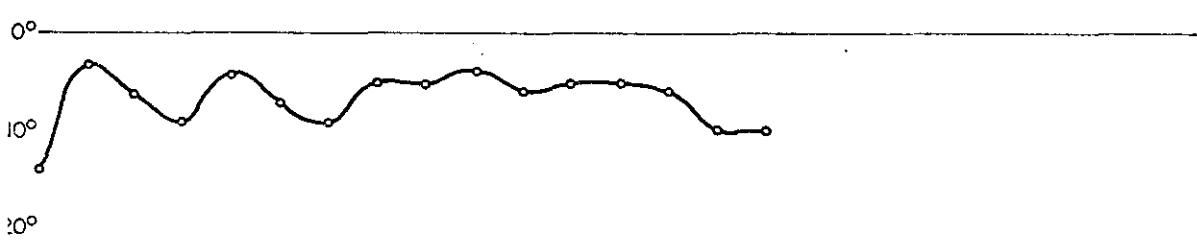
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L-17+50W



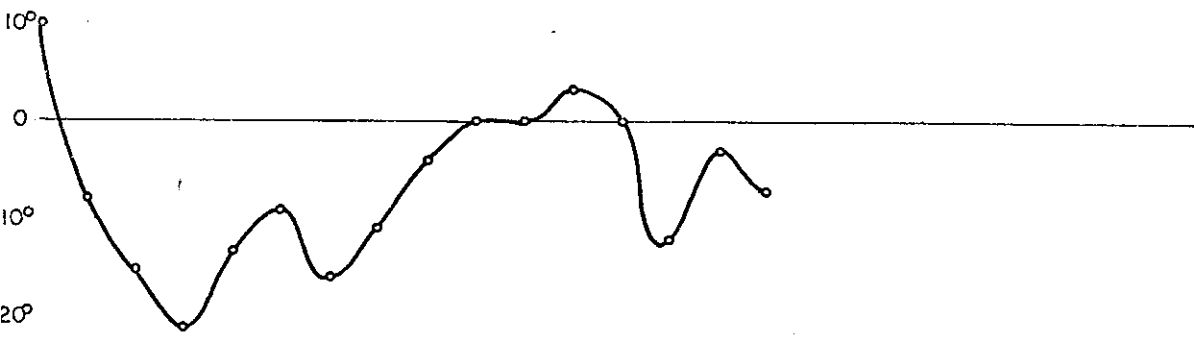
L-20W



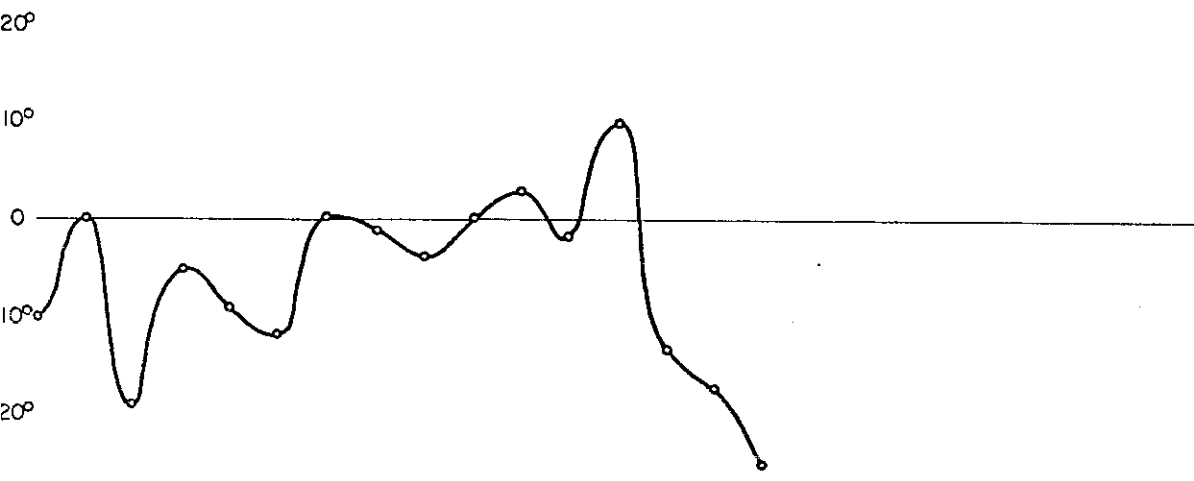
L-22+50W

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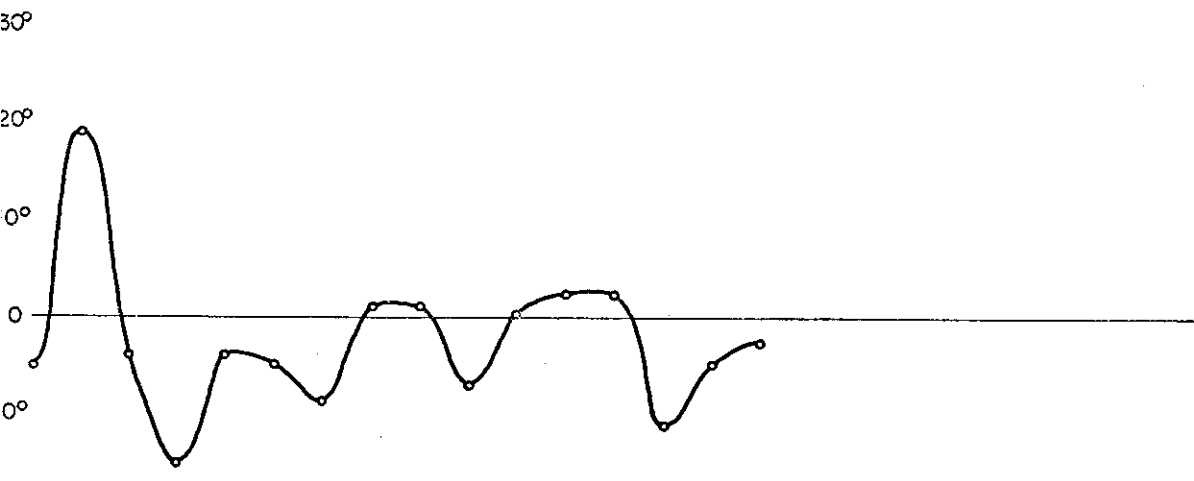
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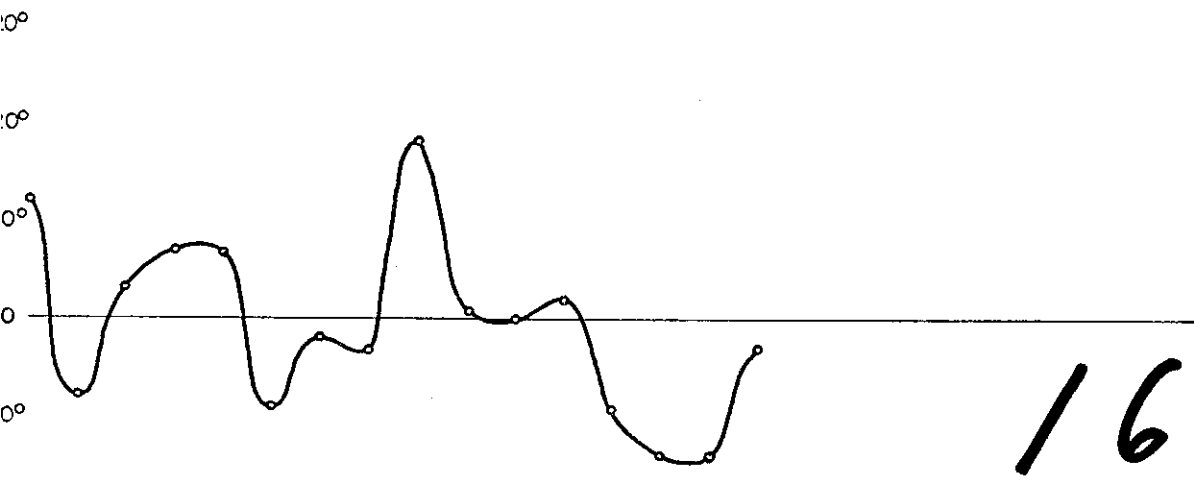
L-2+50E



L-5E



L-7+50E

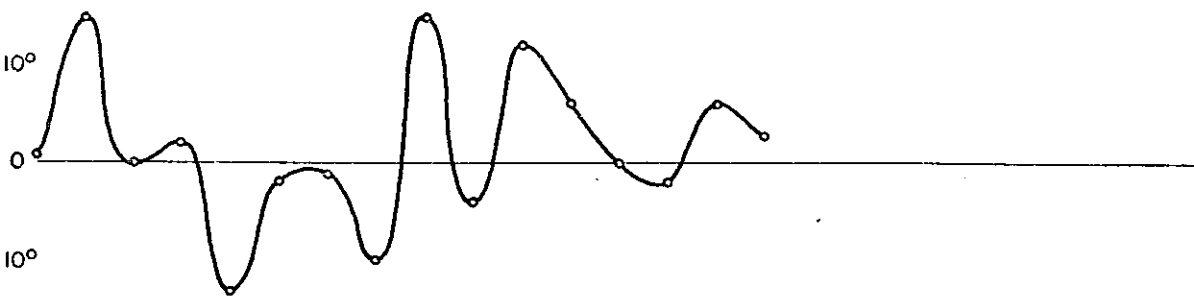


L-10E

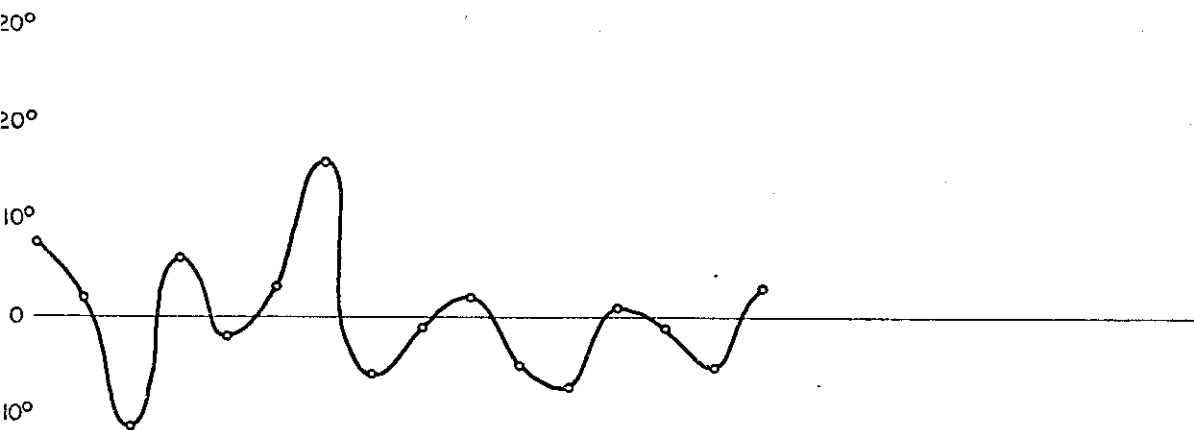
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J.E.M. SURVEY - DONNA GROUP

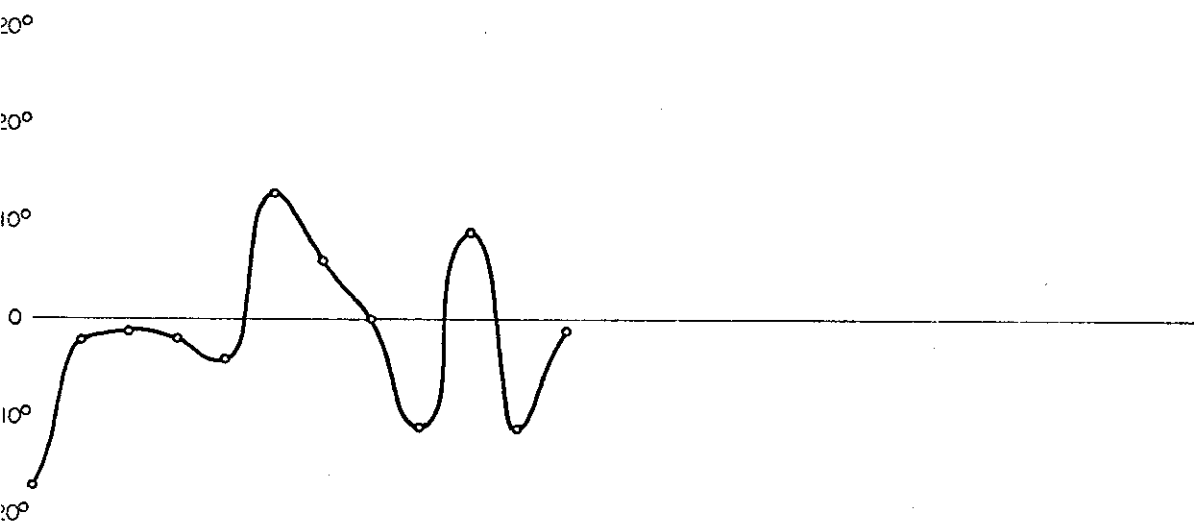
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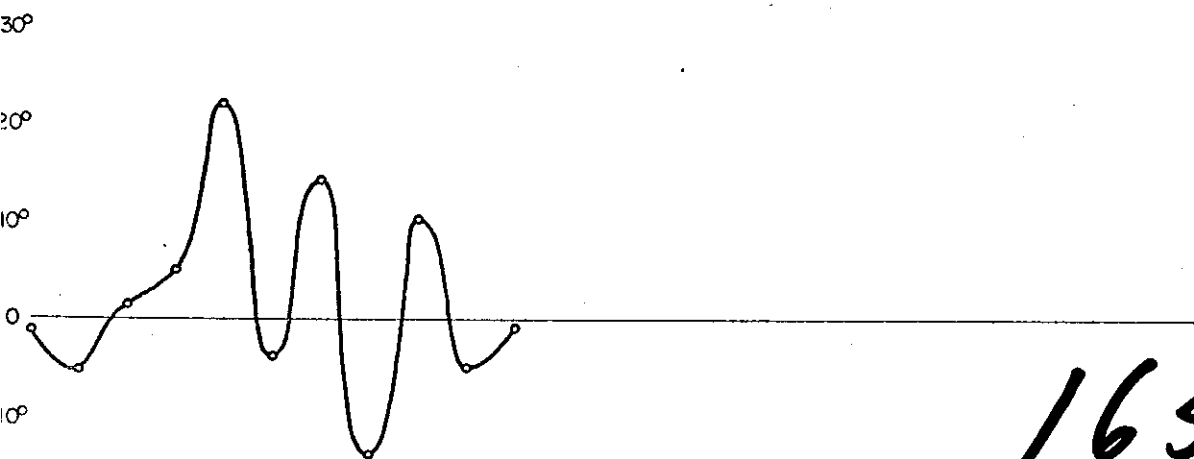
L-12+50E



L-15 E



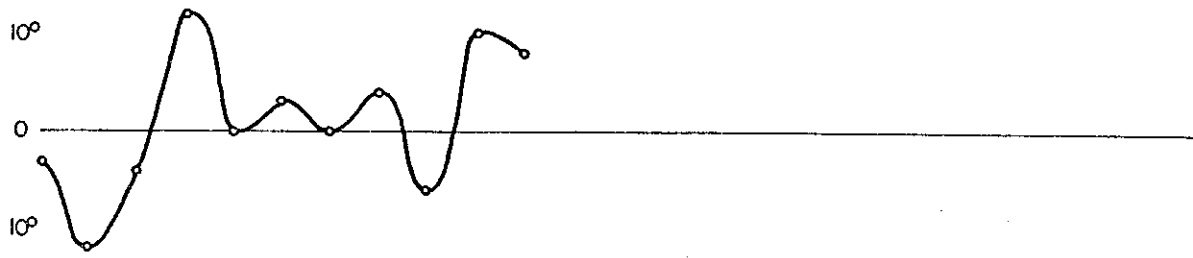
L-17+50E



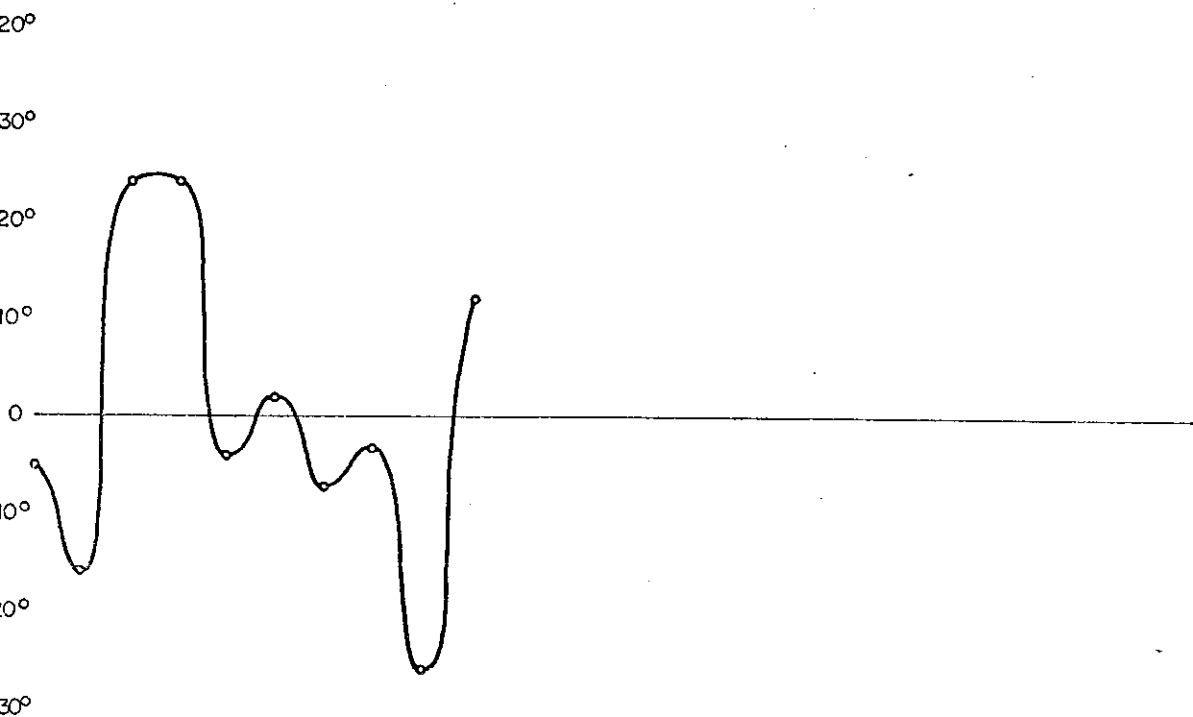
L-20E

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J.E.M. SURVEY - DONNA GROUP

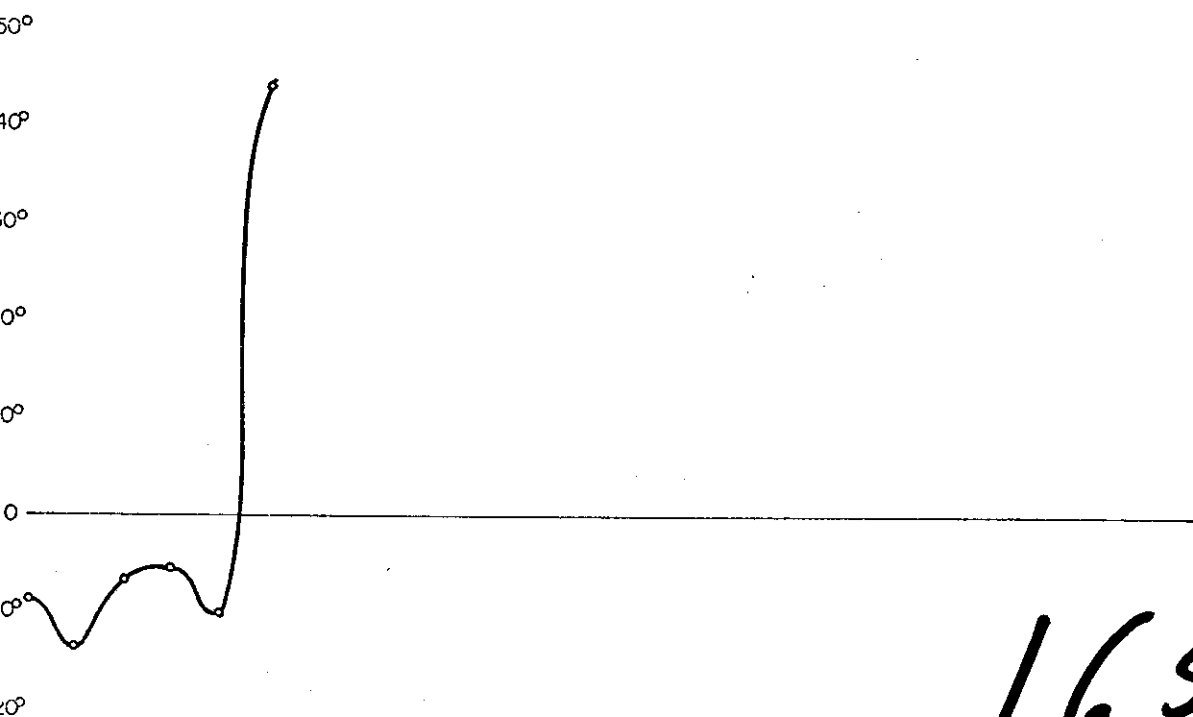
2000' 400' 800' 1200' 1600' 2000' 2400'



L-22+50E

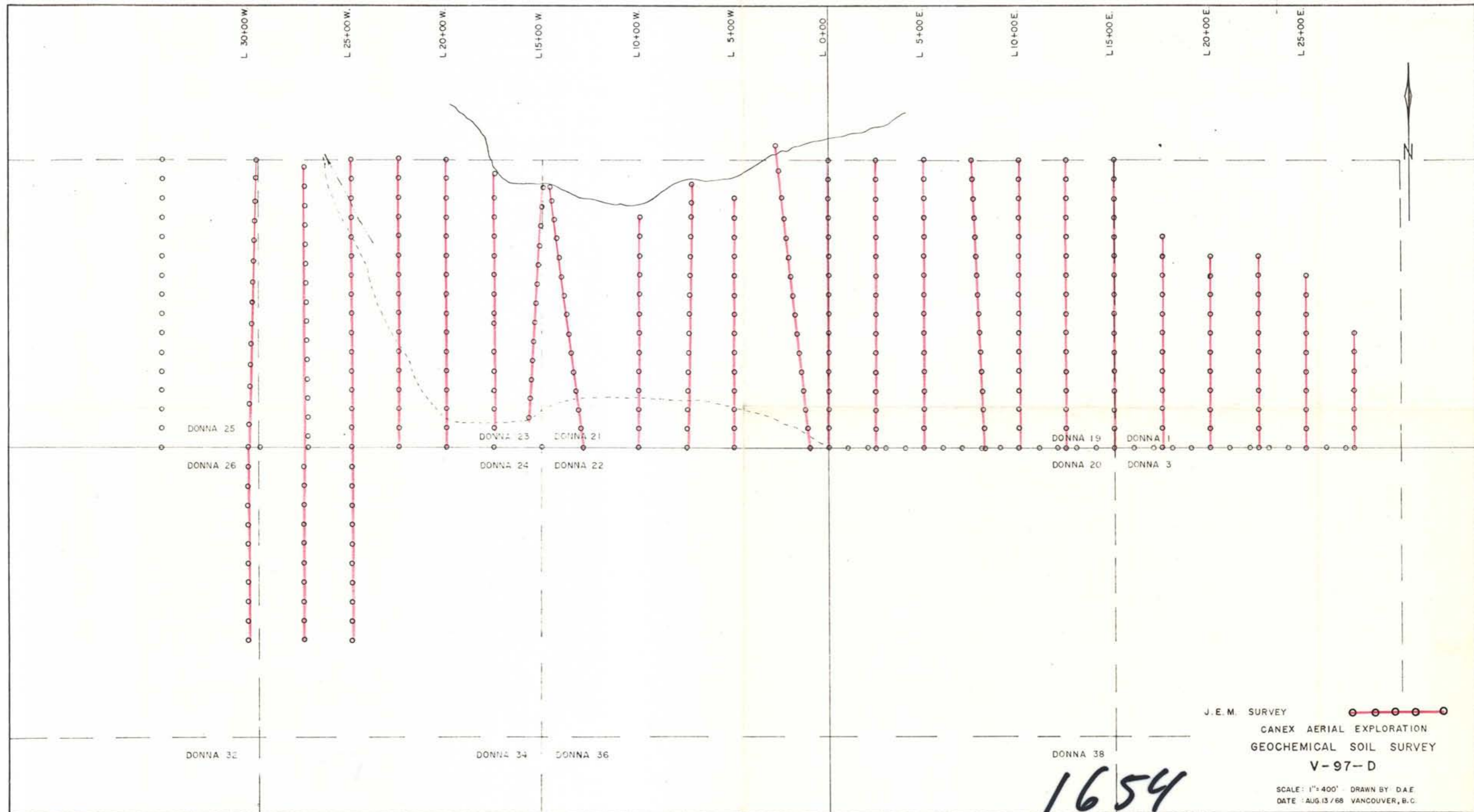


L-25 E



L-27+50E

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DONNA 25
DONNA 26

DONNA 23
DONNA 24
DONNA 21
DONNA 22

DONNA 19
DONNA 20
DONNA 1
DONNA 3

DONNA 32

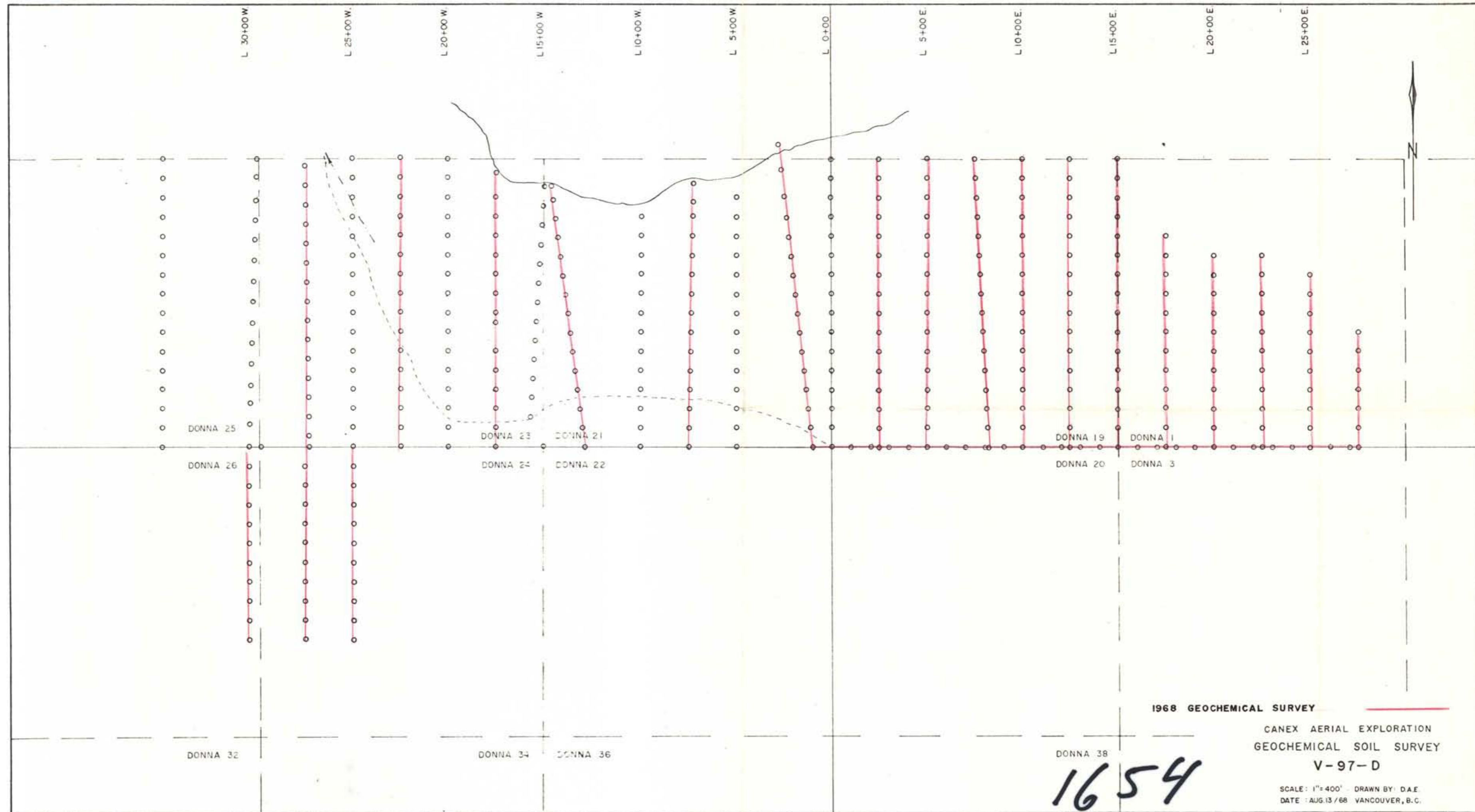
DONNA 34
DONNA 36

DONNA 38

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J. E. M. SURVEY
CANEX AERIAL EXPLORATION
GEOCHEMICAL SOIL SURVEY
V-97-D

SCALE: 1" = 400' - DRAWN BY: D.A.E.
DATE: AUG. 13 / 68 VANCOUVER, B.C.



1968 GEOCHEMICAL SURVEY

CANEX AERIAL EXPLORATION
GEOCHEMICAL SOIL SURVEY

V-97-D

SCALE: 1"=400' DRAWN BY: D.A.E.
DATE: AUG. 13/68 VANCOUVER, B.C.

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