



42A01NE0093 2.3221 LEBEL

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2.3221

REPORT FOLLOWING AN ELECTROMAGNETIC SURVEY ON MINING CLAIM,
L-505051 LEBEL TWP. , LARDER LAKE MIN. DIV. CLAIM IS IMMEDIATELY
EAST OF THE TOWN OF KIRKLAND LAKE.

ROCK TYPES ARE MADE UP OF GREYWAKE TUFFS AND PORPHYRIC LENSES.
THERE IS A MAJOR FAULT ZONE CALLED THE MURDOCH CREEK FAULT AND
SEVERAL FISSURE TYPE VEINS THAT FOLLOW NARROW ZONES OF SHEARING.
THESE NARROW SHEAR ZONES ARE WHAT WE DEFINE AS BREAKS ALONG
THE KIRKLAND LAKE ORE ZONE.

INSTRUMENT USED WAS A MODEL GEONICS EM 16 USING SIGNALS FROM A
PRIMARY FIELD. IN THIS CASE CUTTLER MAINE AN OUT OF PHASE
QUADRATURE READING $+8-40\%$ IS MEASURED AGAINST AN IN-PHASE
INCLINOMETER $+8-150\%$.

A NEW BREAK FOUND BY DRILLING GAVE A POSITIVE CONDUCTOR. HOLES
HAVE BEEN SPOTTED AND A DRILL PROGRAM IS UNDERWAY.

M. LABINE.

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MAY 23 1980

MINING LANDS SECTION

COPY

Report on geophysical survey on claim 505051 Lebel Twp.

Qualifications: 30 years field experience.

There appears to be a break going W. to E. diagonally across the railway line.

If, correct this would place the main break, on line and not offset some 400 ft. further N. as it had been previously suggested.

The veins N. where the break was to have been displaced lack the minerals Molybdenite and graphite, associated with the main break. Instead the vein system though it makes ore grade is pronounced by a chloride zone and Hematite.

It appears the main break continues it's course and cuts all other fault systems.

A situation similar to this one exist on the Tegren claims further W. Here the strong Amikogami fault was to have displaced the main break some 600 feet; drifting underground has shown the main break to cut all other fault zones.

Recommendations:

Following an independent consultant report on this theory a hole will be drilled to test this possibility.

I strongly feel the government should get involved by paying part of the cost of a drill hole since this report conflict's the earlier reports written by this government on the structural controls of the Kirkland Lake main fault zone.

M. Lalme

Geophysical survey mining claim L-505051 Location-immediately E. of the old Toburn mine situated within residential limits of the town of Kirkland Lake.

The field work was done by M. Labine, 135 Pollock St., Kirkland Lake, Ontario.

There appears to be a break going W. To E. diagonally which crosses the railway line. This suggest the main break in Kirkland may follow on strike and cut all older formations.

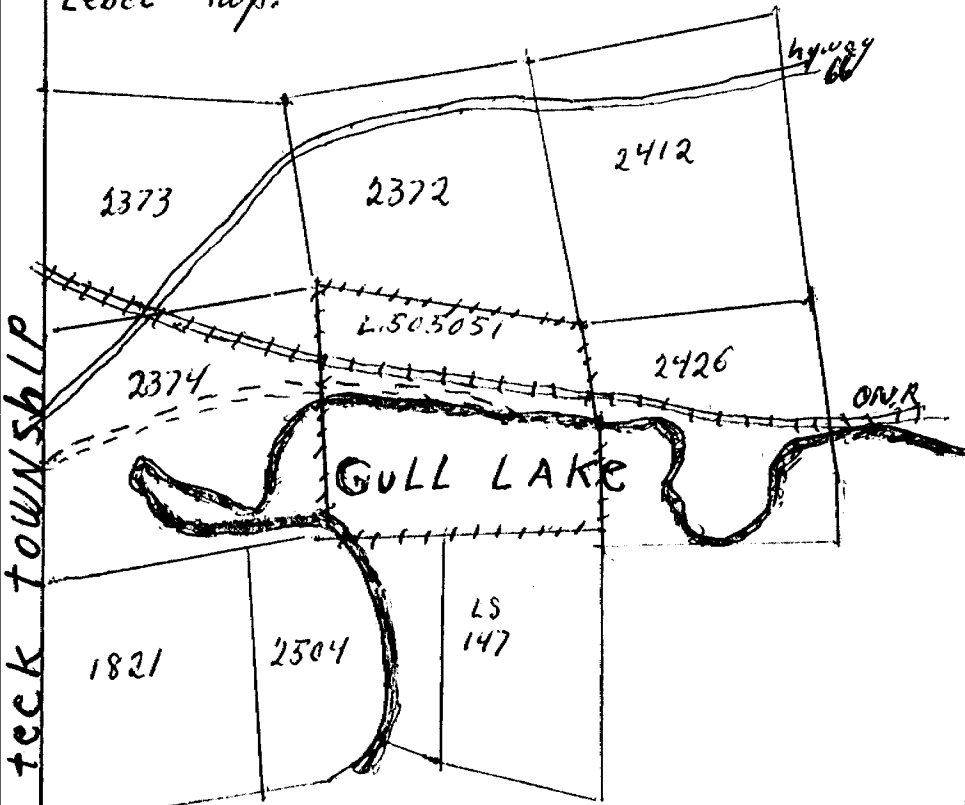
It was previously thought that the number 3 vein was the faulted extension of this major fault zone which carried almost all the gold in the Kirkland Camp.

The veins N. carried the minerals Hematite and chloride whereas a new break located by drifting^{LL} carried the minerals molybdenite, and graphite and mylonite which are commonly associated with the main break.

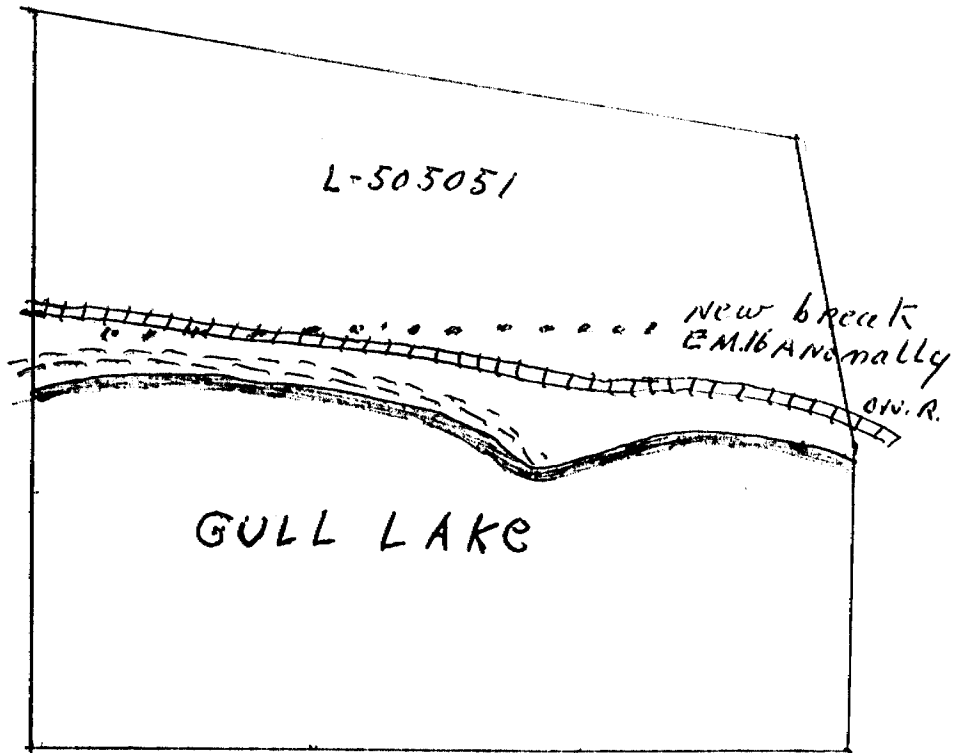
The geophysical response along the new break indicate the possibility of the Kirkland break cutting through the Murdock Creek Fault.

SURVEY AREA
SCALE 1" = 1000 FT.

Lebel Twp.



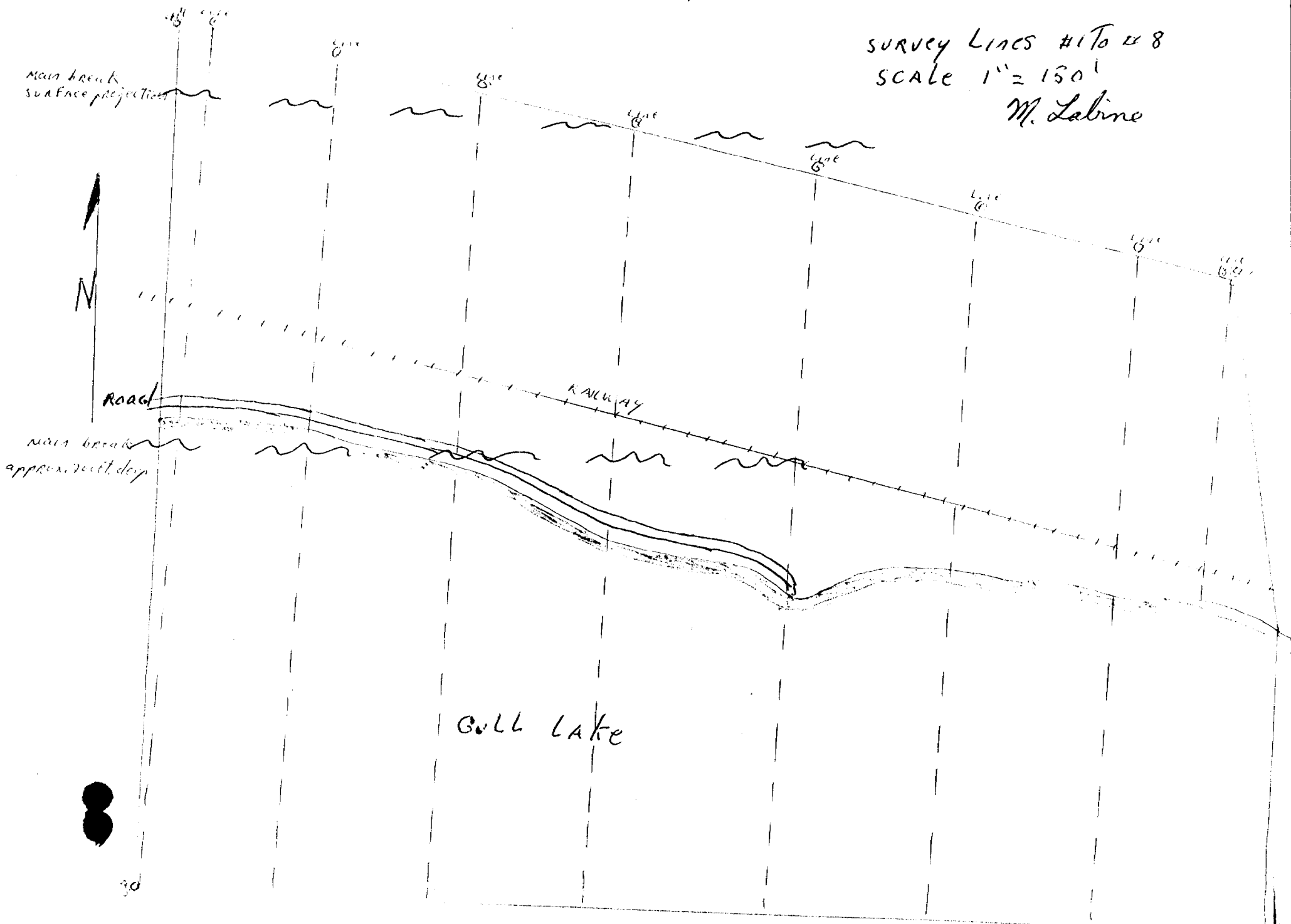
Claim L 505051
Lebel Twp.
SCALE 1" = 333 FT.



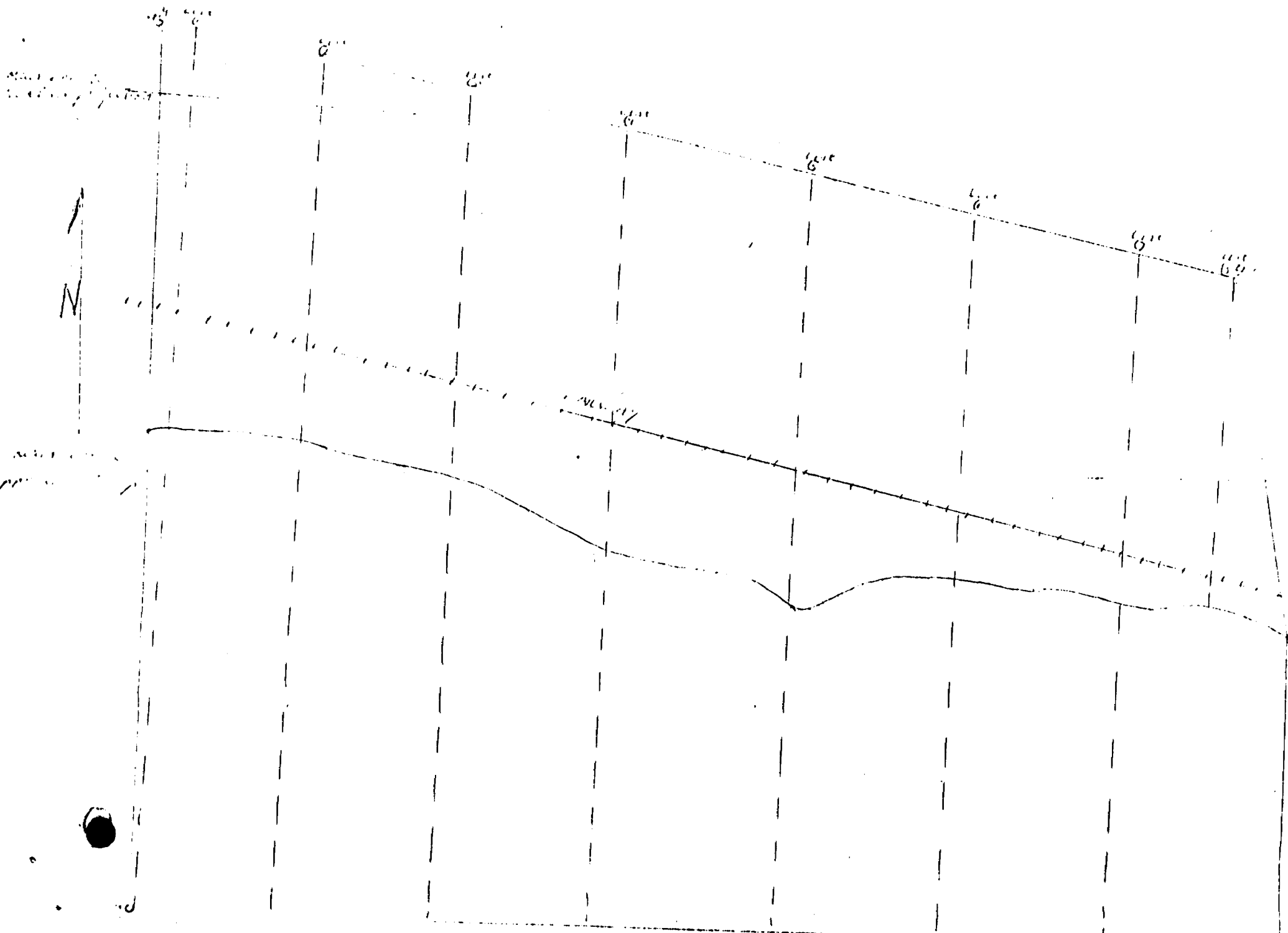
M. Labine

Lebel Twp. claim L-505051

SURVEY LINES #1 TO #8
SCALE 1" = 150'
M. Labine

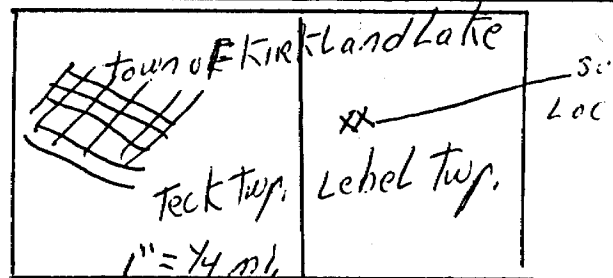


2162. Top. chain L. 50-7051

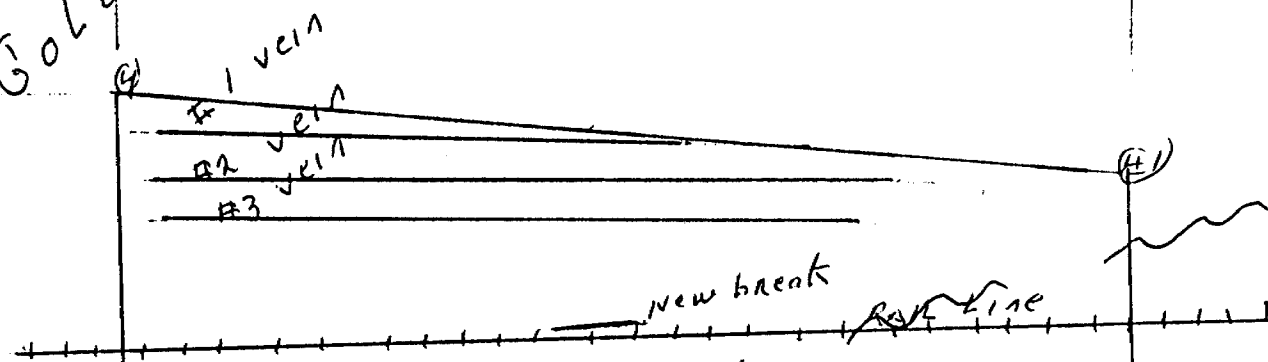


Lebel
Twp.
Larder Lake Min. Div.

Gold Mines



main break
Toboggan N



Murdock Creek Fault

claim L-505051

SCALE
1" = 320'

(3)

(2)

2.322

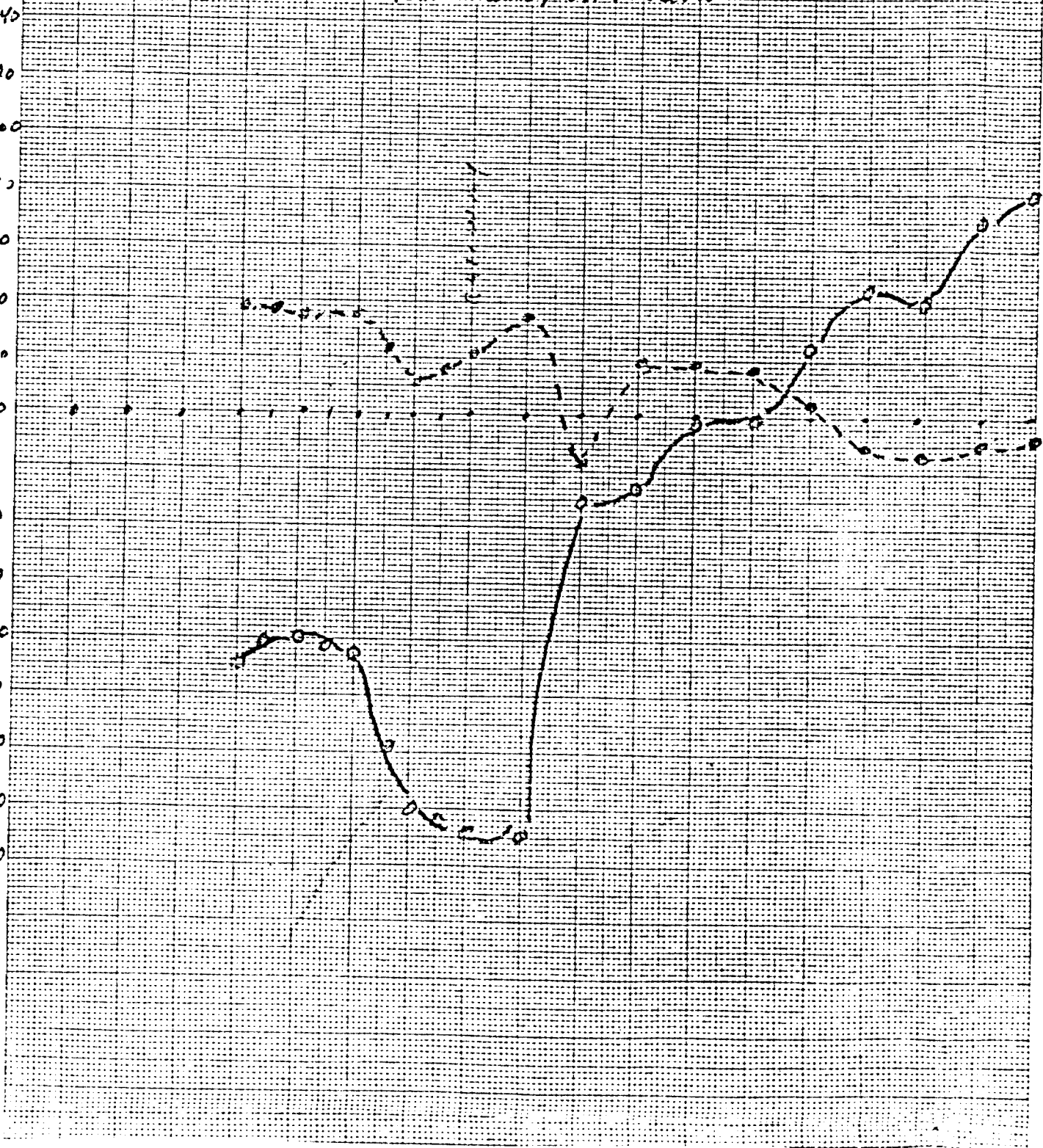
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ELECTROMAGNETIC SURVEY
 CLAIM L-505051 Label Twp. Larder Lake Mun. Div. Ont. Canada
 Model Geonics EM-16
 PRIMARY FIELD VLF TRANSMITTING STATION COTLER MAINE U.S.A.
 PRIMARY FIELD E-W. SURVEY LINES U.S.
 STATION CHECK ON THE HOUR.
 READINGS 100 FT. PLUS 50 FT. CHECK POINTS ON INTERFERENCE
 SCALE 1 CENTIMETER = 100 FT.
 ---○--- OUT OF PHASE QUADRATURE $\pm 90^\circ$
 ○--- IN PHASE INCLINOMETER $\pm 150^\circ$
 SURVEY LEADER
 M. Labine
 135 POLLOCK ST. KIRKLAND LAKE, ONT. CAN.

N

160
140
120
100
80
60
40
20
0
20
40
60
80
100
120
140
160

METRIC



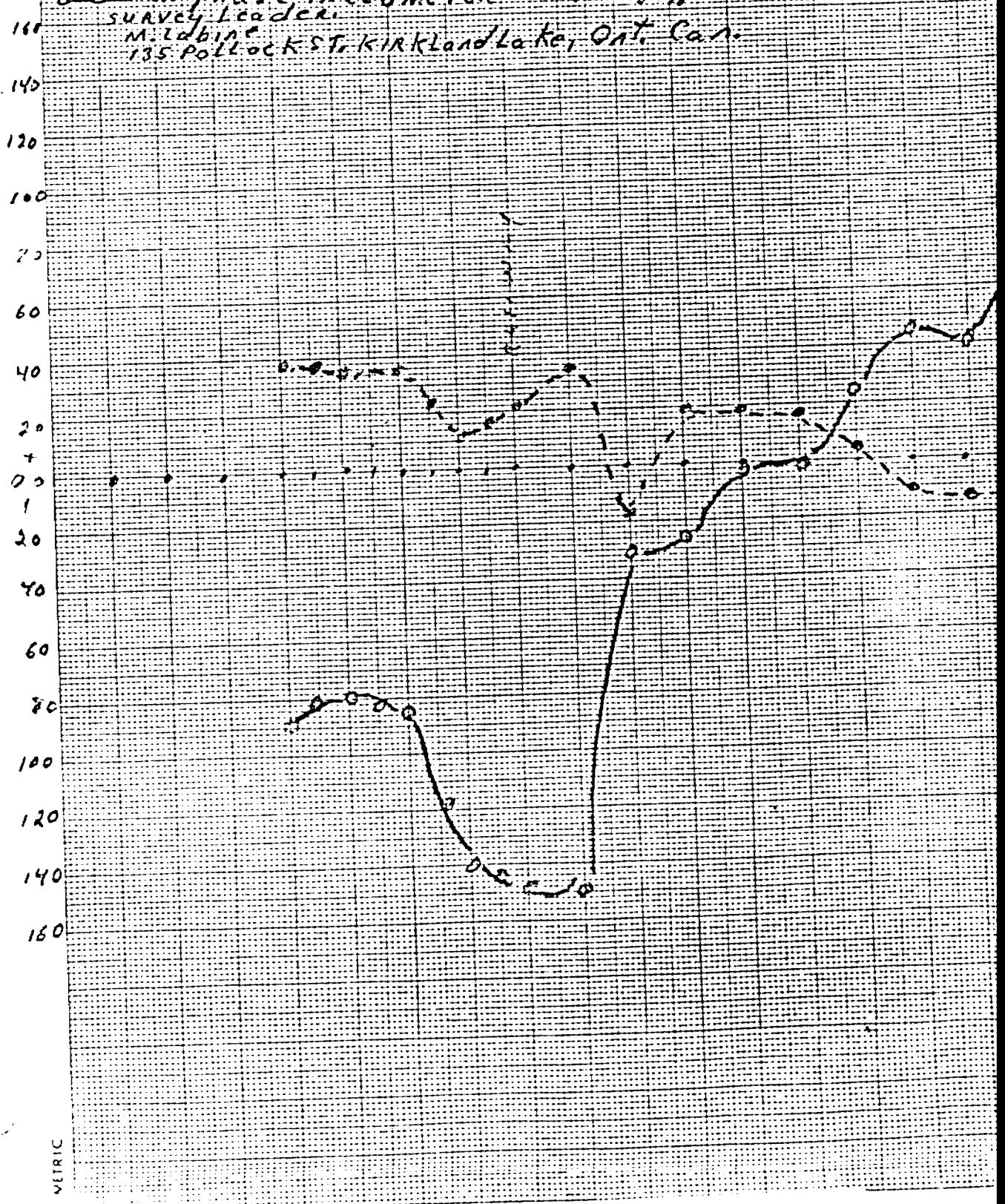
LINE 5

2.322

Line 1

ELECTROMAGNETIC SURVEY
 CLAIM L-505051 Label Twp. Larder Lake Mun. Div. Ont. Can.
 Model GEONICS EM-16
 PRIMARY FIELD VLF TRANSMITTING STATION CUTLER MAINE U.S.A.
 PRIMARY FIELD E-W SURVEY LINES N.S.
 Station check on the hour.
 Readings 100 FT. PLUS 50 FT. check points on interference
 SCALE 1 centimeter = 100 FT.
 - - - - - out of phase quadrature $\pm 40\%$
 o o in phase in clinometer $\pm 150\%$
 SURVEY LEADER:
 M. Zabine
 135 POLLOCK ST. KIRKLAND LAKE, Ont. Can.

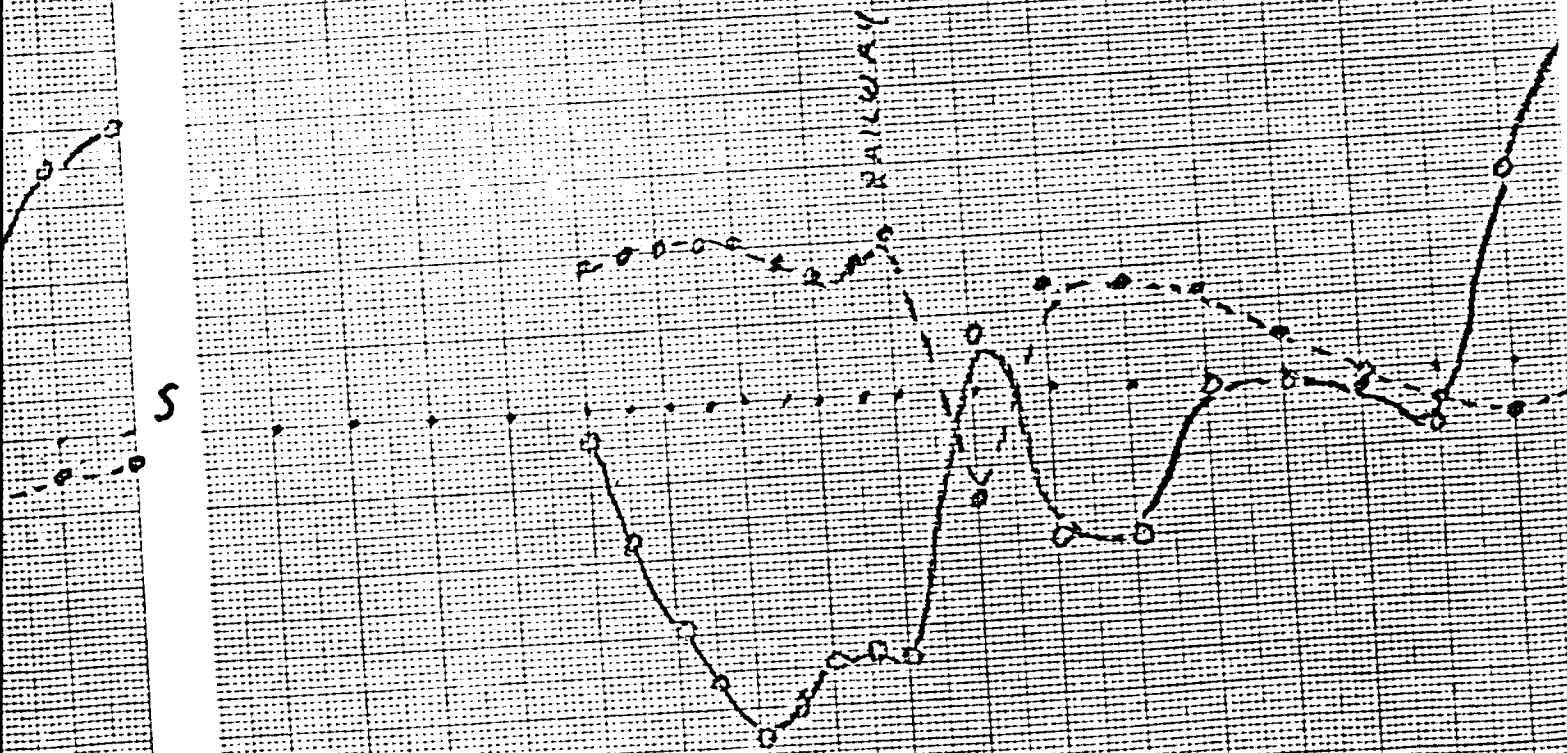
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LINE 5

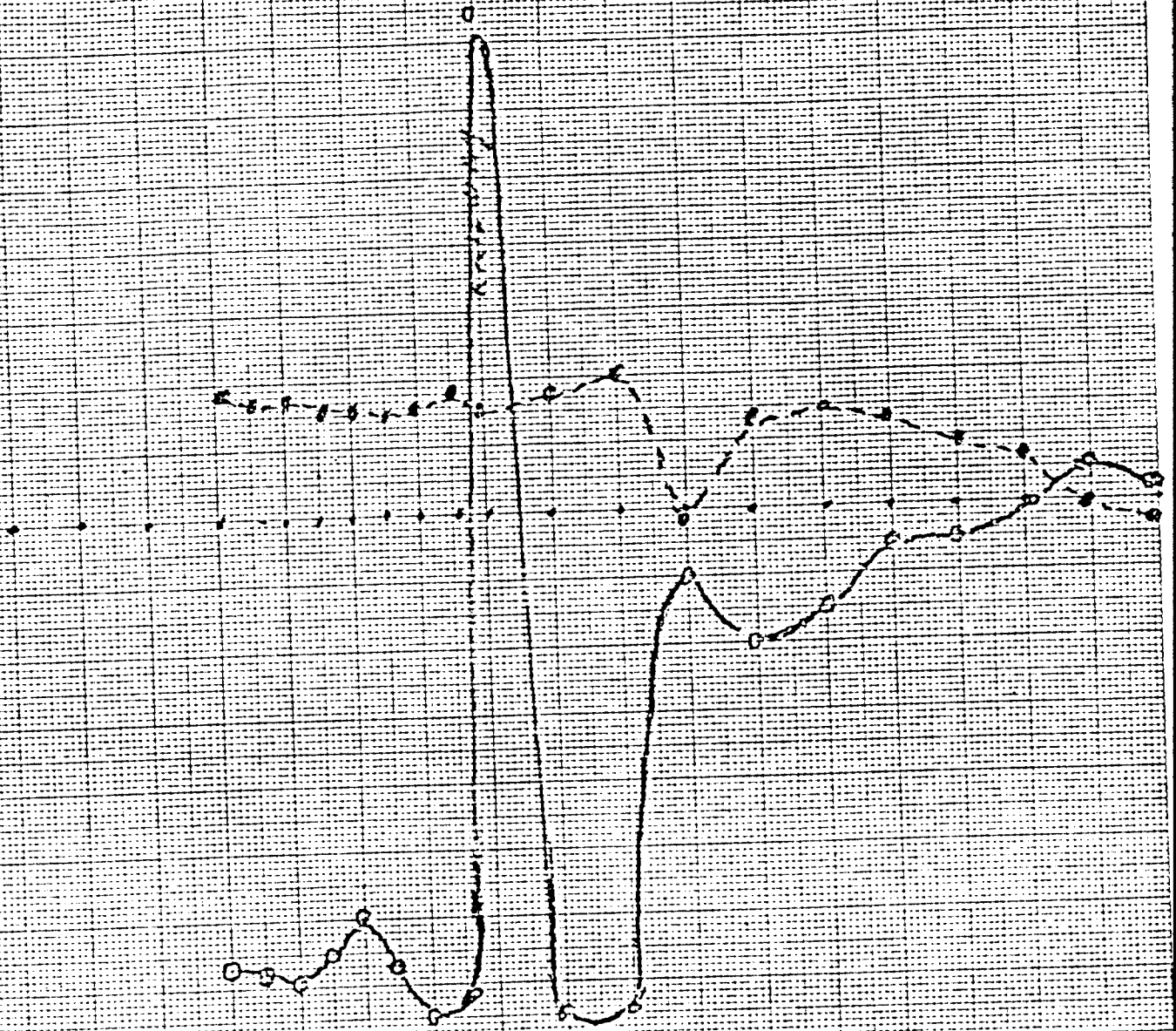
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ada



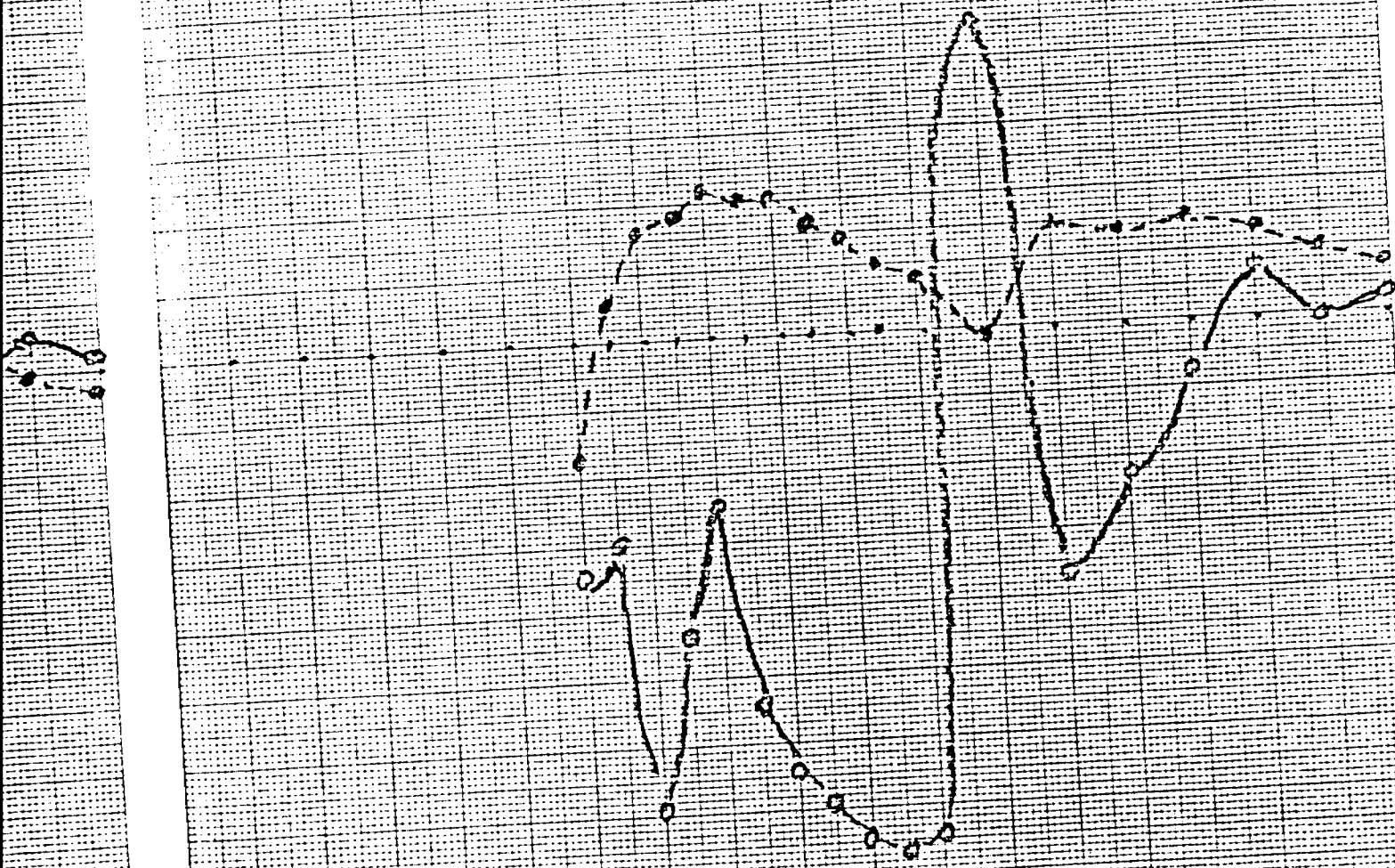
LINE 6

LINC 3



LINC 7

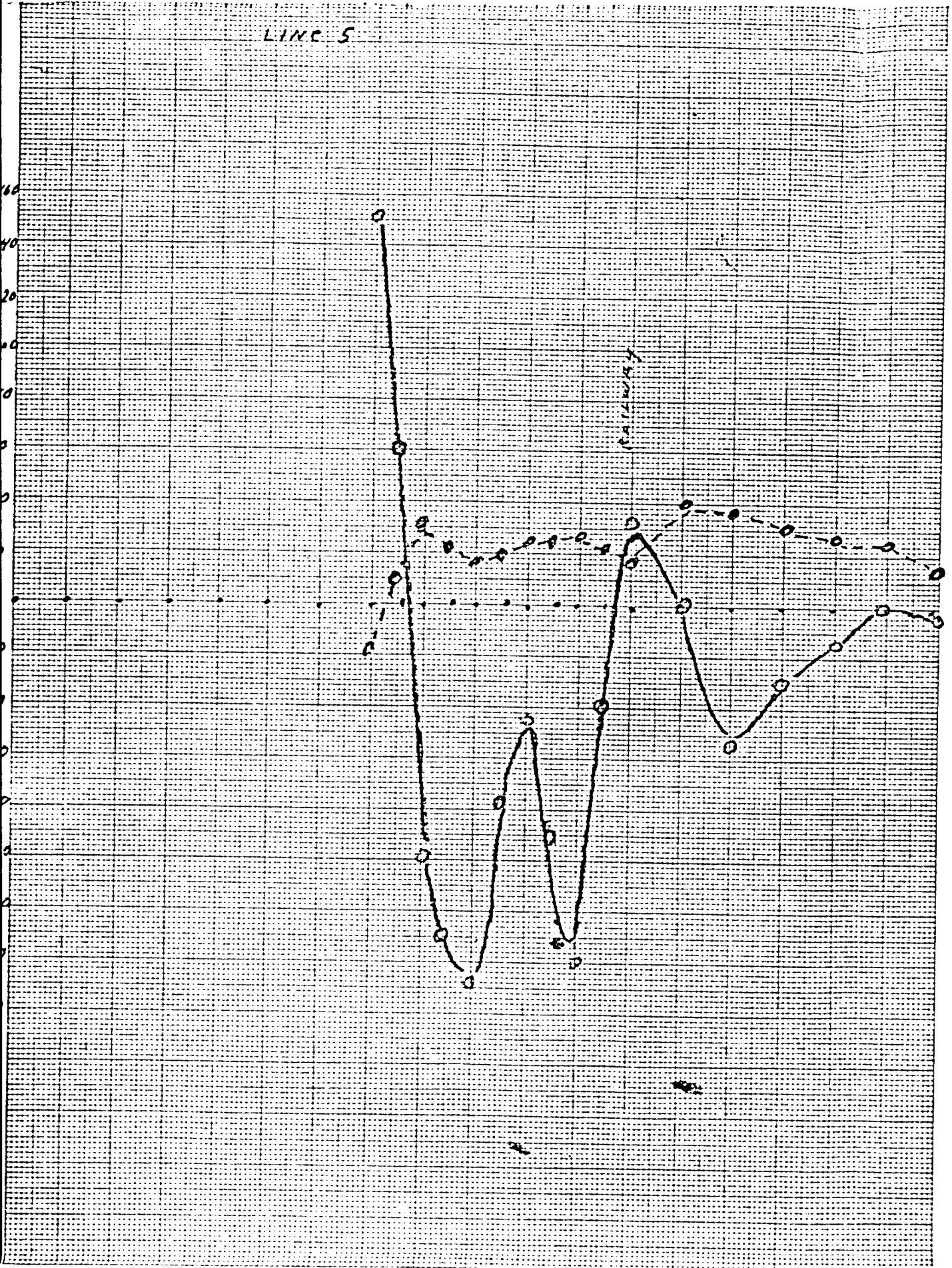
RAILWAY



LINE 8

METRIC

LINE 5

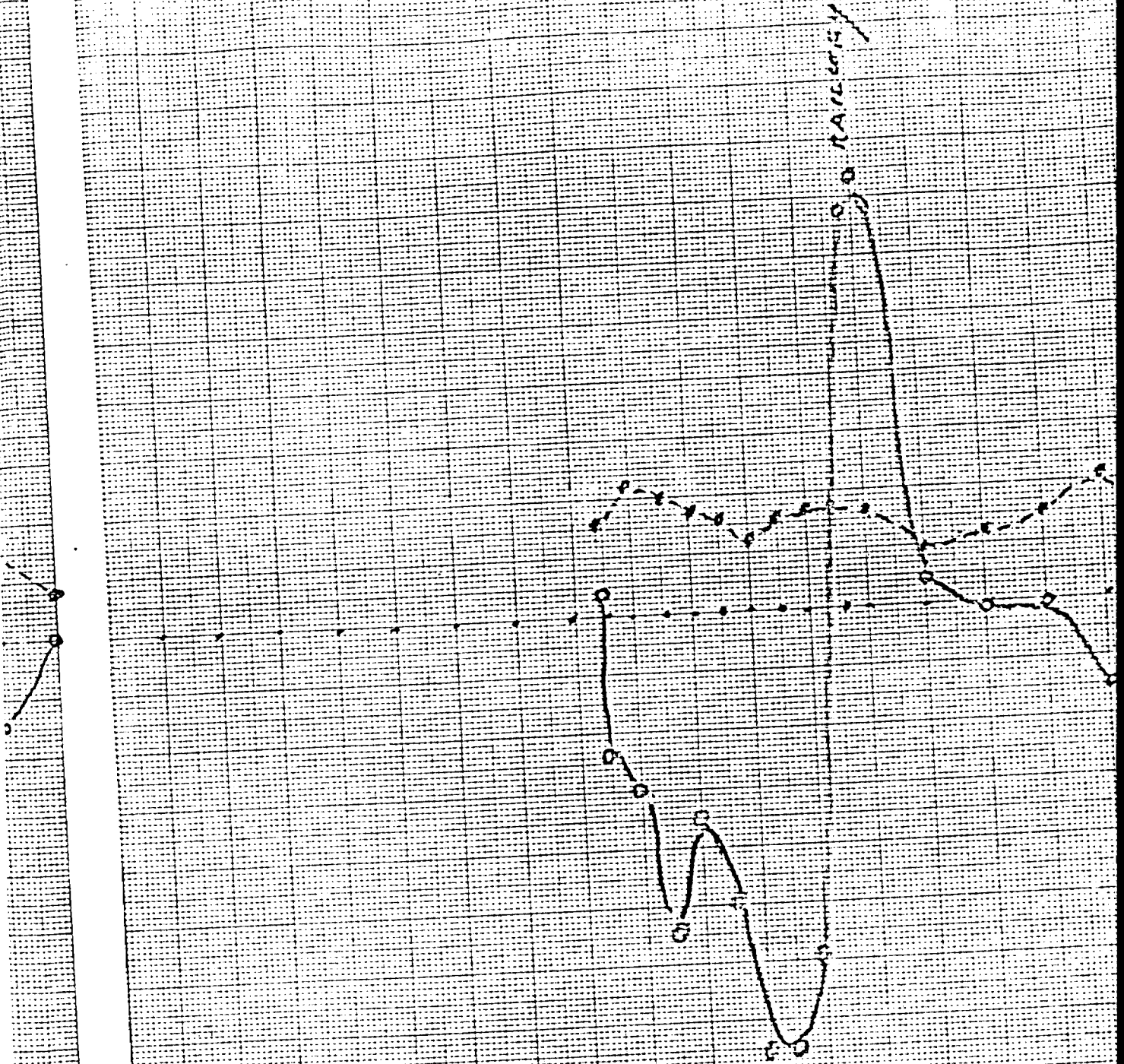


LINC 6



LINC 7

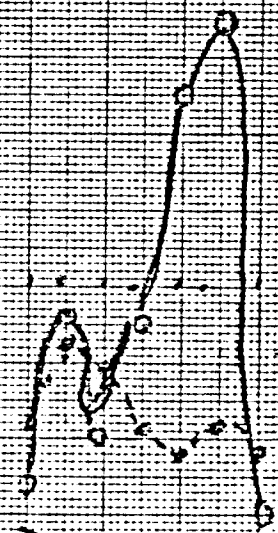
PARALLEL



THIS IS

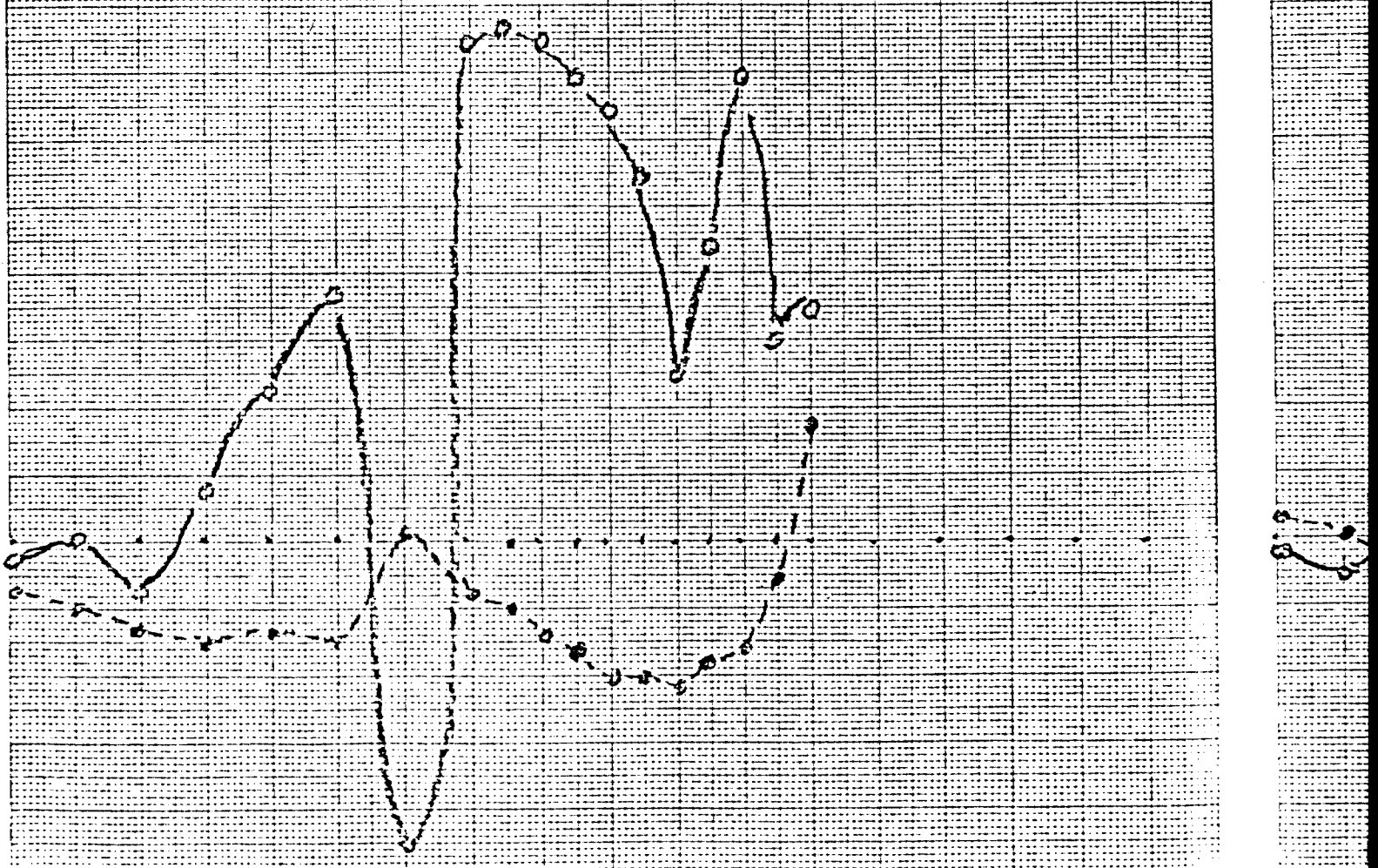
THE

LINE



RAILWAY

LINE 8

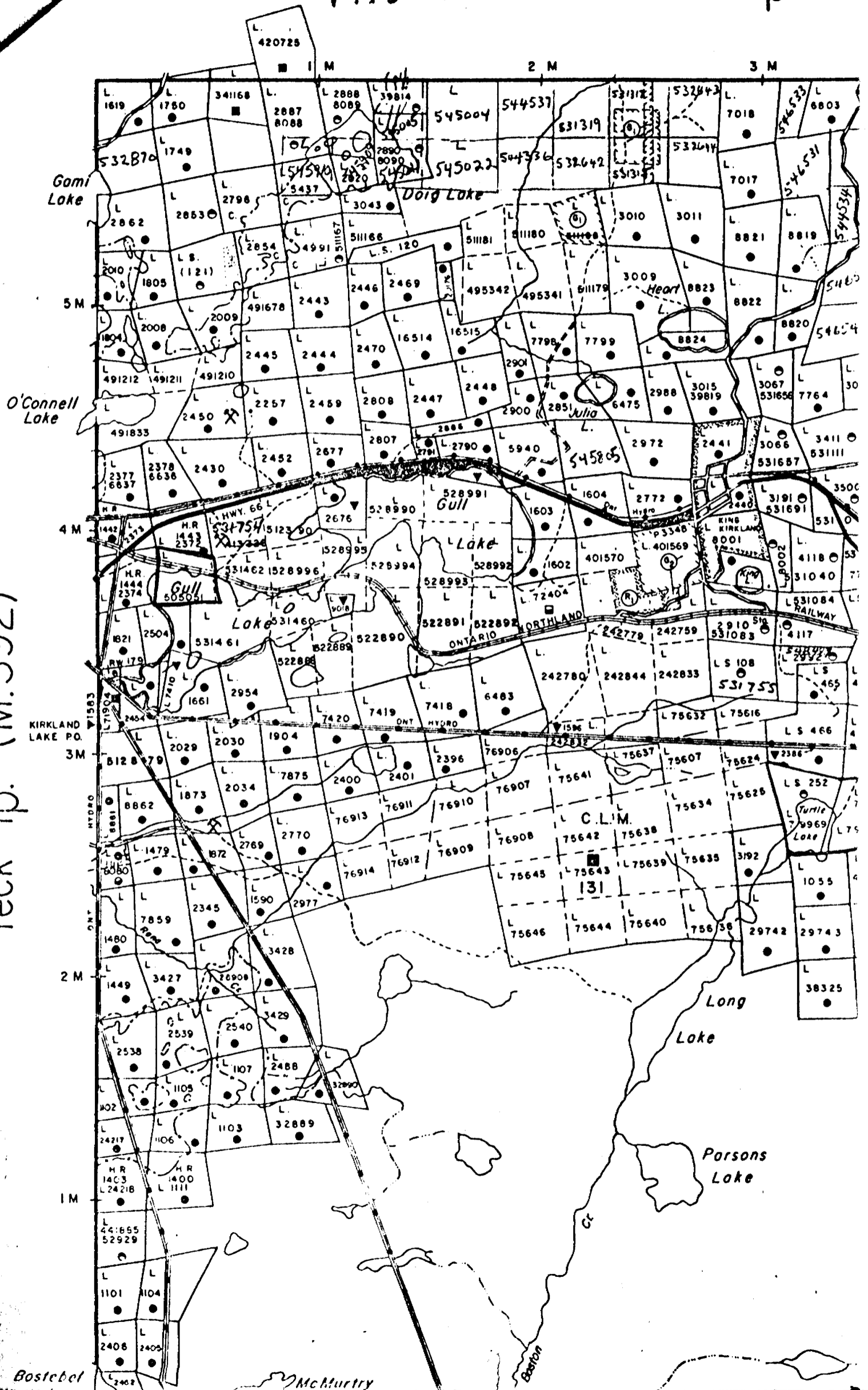


RAILWAY

Label top
M359

Morrisette Tp. (M)

Teck Tp. (M.392)





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900

File _____

RECEIVED

FEB 14 1980

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

MINING LANDS SECTION

Type of Survey(s) Electromagnetic
 Township or Area Lebel Twp.
 Claim Holder(s) Yvonne Labine
135 Pollock St. Kirkland Lake.
 Survey Company M. Labine
 Author of Report M. Labine
 Address of Author 135 Pollock St. Kirkland Lake
 Covering Dates of Survey Sept 4/79 to Jan. 7/80
(linecutting to office)
 Total Miles of Line Cut 3 miles

MINING CLAIMS TRAVERSED
List numerically

..... (prefix) (number)
 6-505051

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.
 ENTER 20 days for each additional survey using same grid.

DAYS per claim

Geophysical
 -Electromagnetic 40
 -Magnetometer _____
 -Radiometric _____
 -Other _____
 Geological _____
 Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic 40 Radiometric _____
(enter days per claim)

DATE: Jan. 29 SIGNATURE: M. Labine
Author of Report or Agent

Res. Geol. _____ Qualifications 2.7552

Previous Surveys

File No.	Type	Date	Claim Holder
			<u>LD</u>

TOTAL CLAIMS _____

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations 131 Number of Readings 131
Station interval Line spacing 125 FT.
Profile scale 1 centimeter = 100 Ft.
Contour interval

MAGNETIC

Instrument
Accuracy - Scale constant
Diurnal correction method
Base Station check-in interval (hours)
Base Station location and value

ELECTROMAGNETIC

Instrument Geonics EM 16
Coil configuration
Coil separation
Accuracy N. section done twice
Method: [] Fixed transmitter [] Shoot back [x] In line [] Parallel line
Frequency primary field Cutler Maine (specify V.L.F. station)
Parameters measured quadrature +/- 40% out of phase in phase in clometer +/- 150%

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location
Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument
Method [] Time Domain [] Frequency Domain
Parameters - On time Frequency
- Off time Range
- Delay time
- Integration time
Power
Electrode array
Electrode spacing
Type of electrode

Morrisette Tp. (M.374)

THE TOWNSHIP

2. 3221

LEBEL

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

DISPOSITION OF CROWN LANDS

- PATENT, SURFACE AND MINING RIGHTS
- " SURFACE RIGHTS ONLY
- " MINING RIGHTS ONLY
- LEASE, SURFACE AND MINING RIGHTS
- " SURFACE RIGHTS ONLY
- " MINING RIGHTS ONLY
- LICENCE OF OCCUPATION

- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED SURFACE RIGHTS
- MINING RIGHTS

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O.1970).

Order No.	File	Date	Disposition
(R1)	165484	20/11/69	S.R.

SAND and GRAVEL

- (G1) Gravel File 38581
- (G2) Gravel File 8816
- (G3) M.T.C. Gravel Pit No.513
- (G4) Gravel File 29795
- (G5) Gravel File 42354
- (G6) Gravel File 105110

DATE OF ISSUE
FEB 19 1980
SURVEYS AND MAPPING
BRANCH

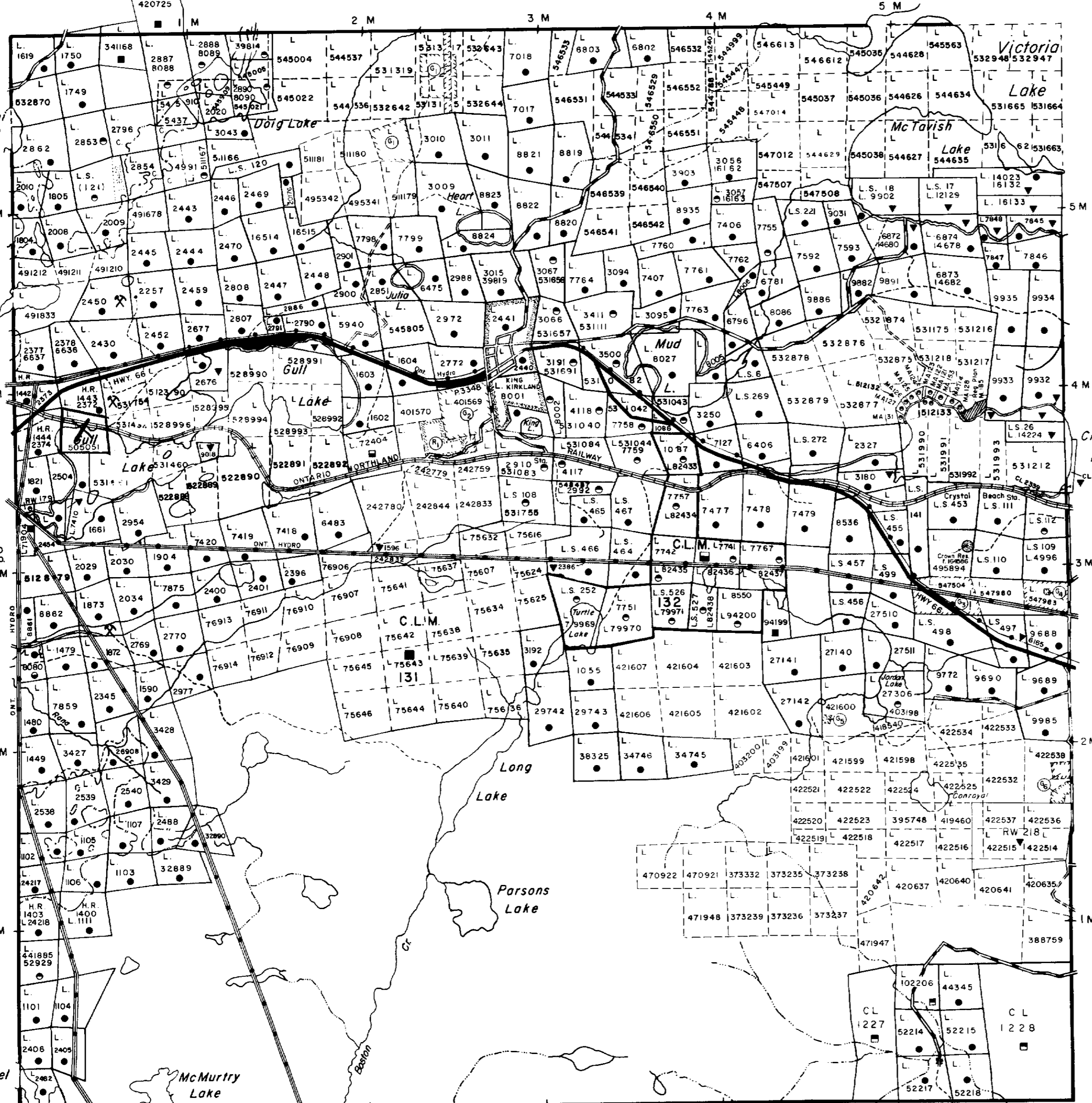
PLAN NO. M.359

ONTARIO
MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

Teck Tp. (M.392)

Gauthier Tp. (M.350)



Boston Tp. (M.332)

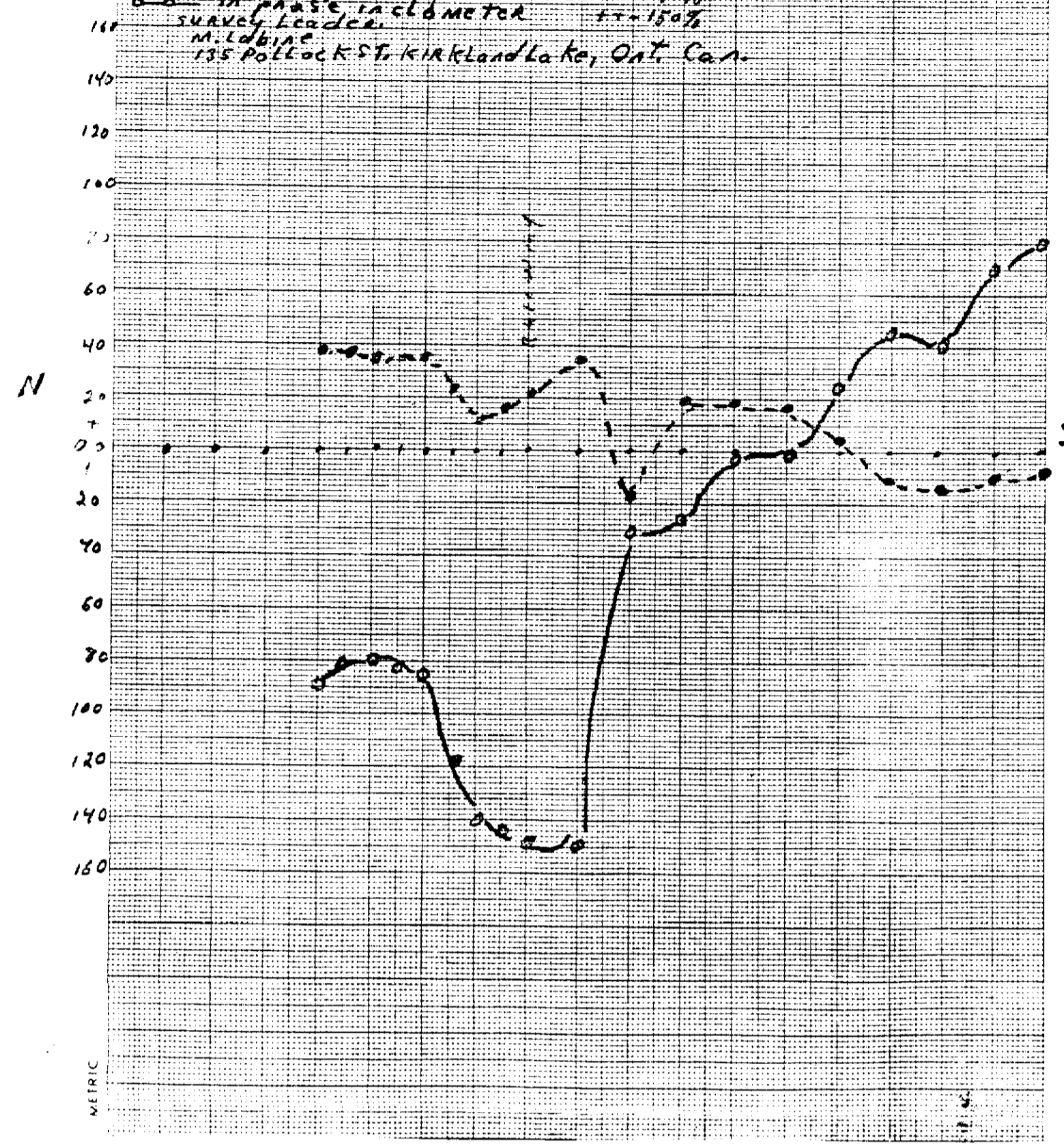


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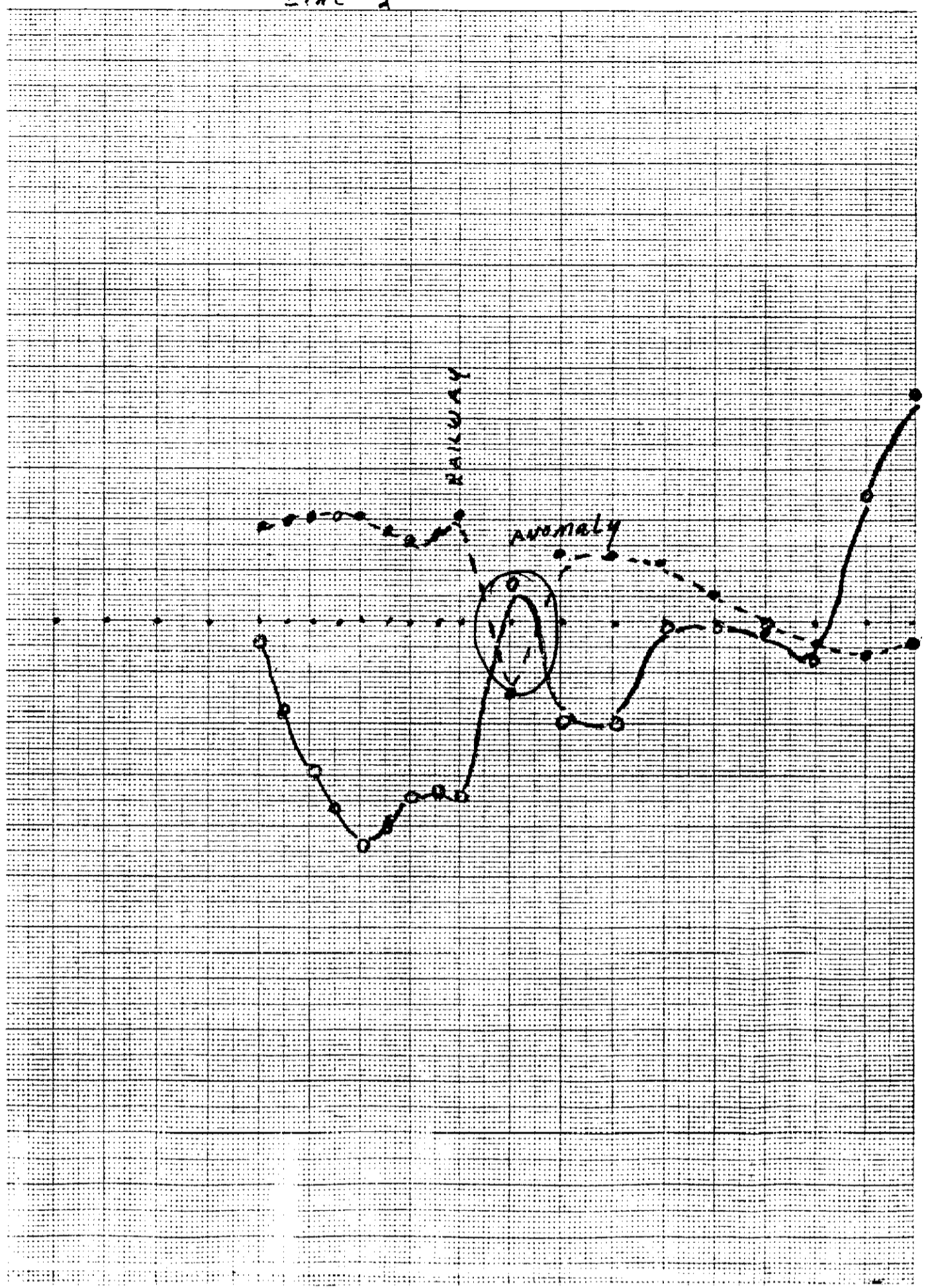
2.321

LINE 1

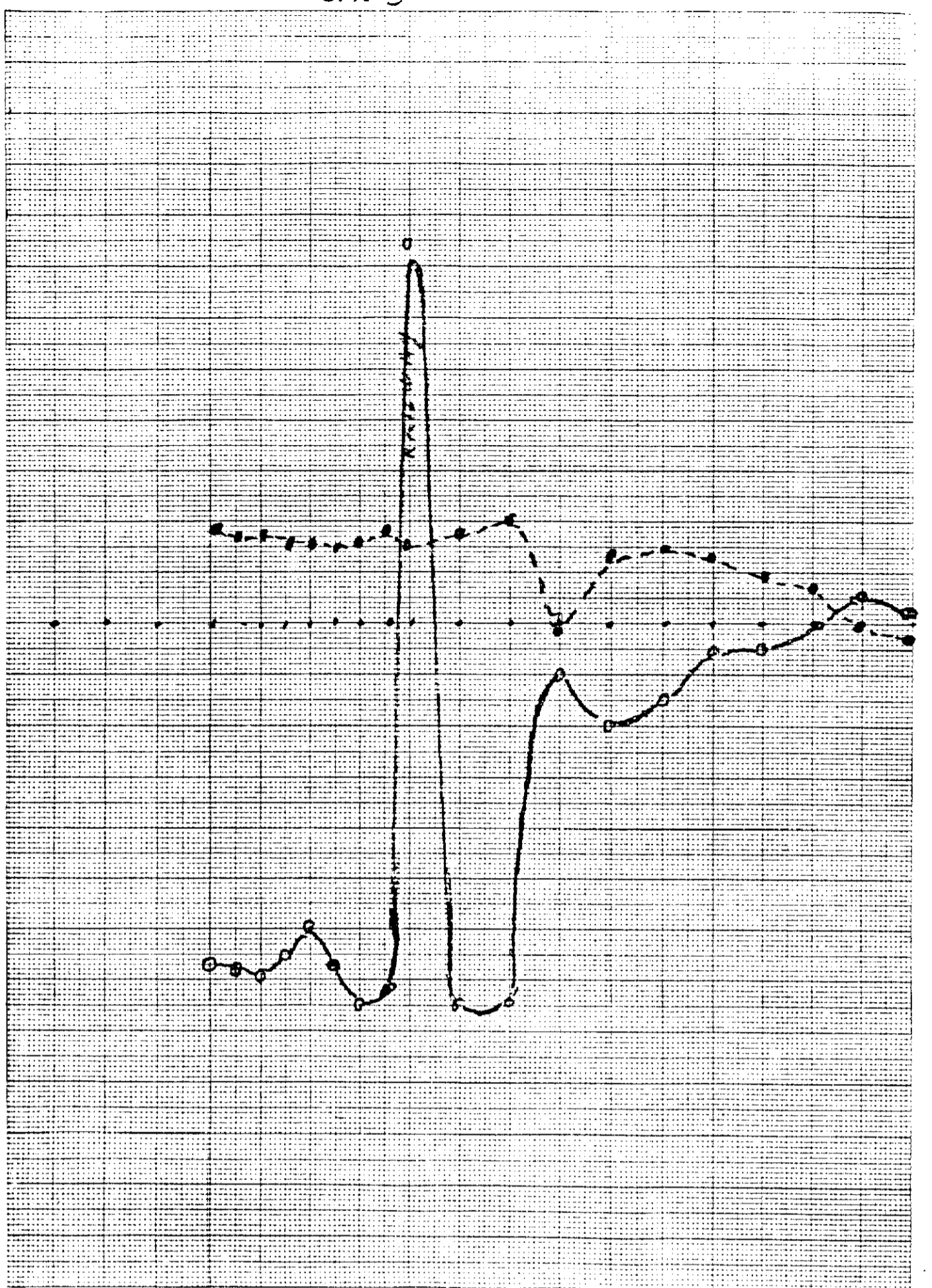
ELECTROMAGNETIC SURVEY
 Model CLAIM E-503051 Label Twp. Lander Lake Min. Div. Ont. Canada
 Model GEOPHYS E-M 10
 PRIMARY FIELD V-L-E TRANSMITTING STATION COLLIER MAINE U.S.A.
 PRIMARY FIELD E-W SURVEY BLADES N.S.
 STATION CHECK ON THE ROAD
 READINGS 100 FT. BUDGET check points on interference
 SCALE 1 centimeter = 100 FT.
 --- OUT OF PHASE QUADRATURE +/- 90%
 --- IN PHASE QUADRATURE +/- 150%
 SURVEY LEADER
 M. L. BIRN
 135 POLLOCK ST. KIRKLAND LAKE, ONT. CAN.



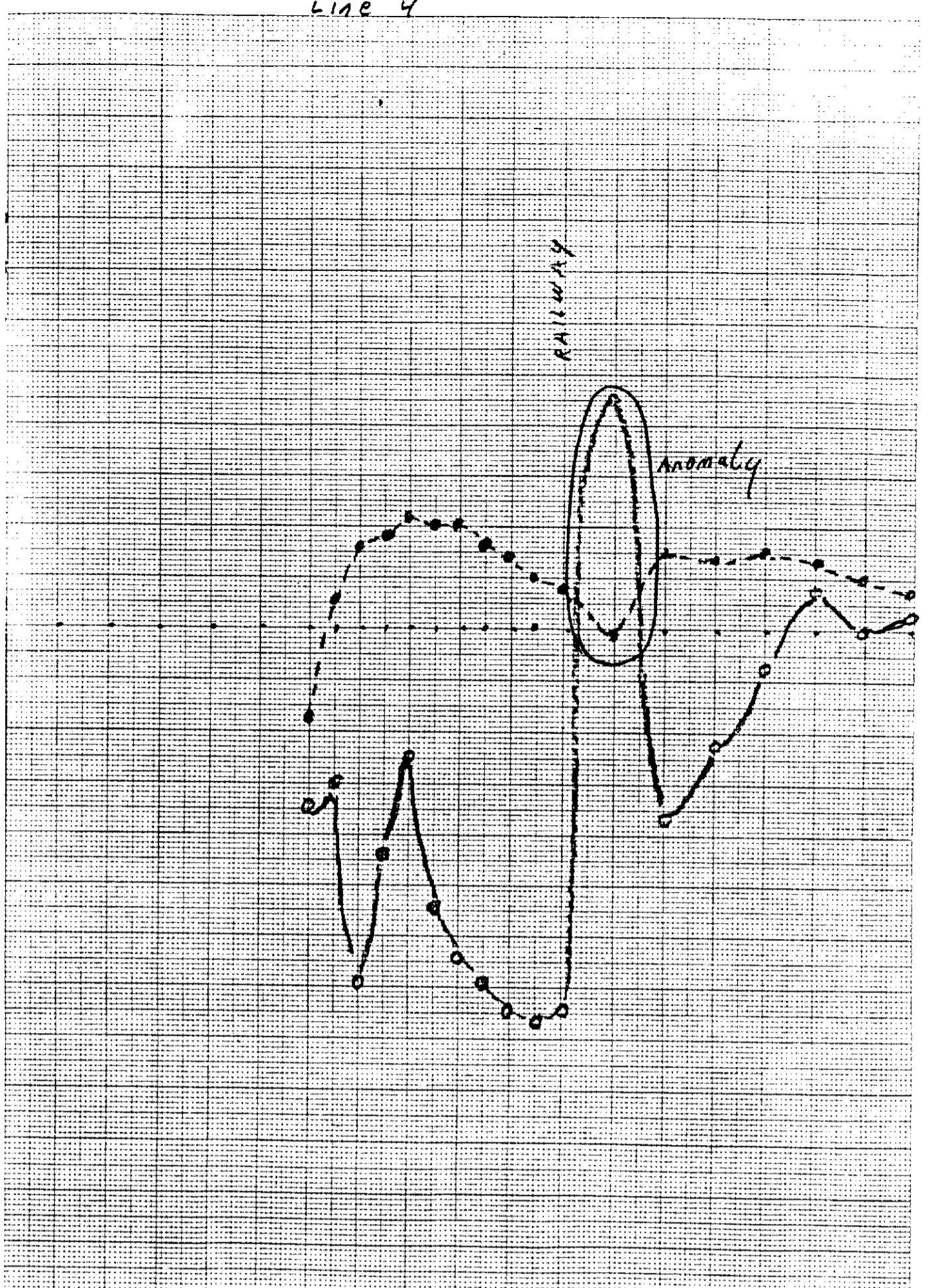
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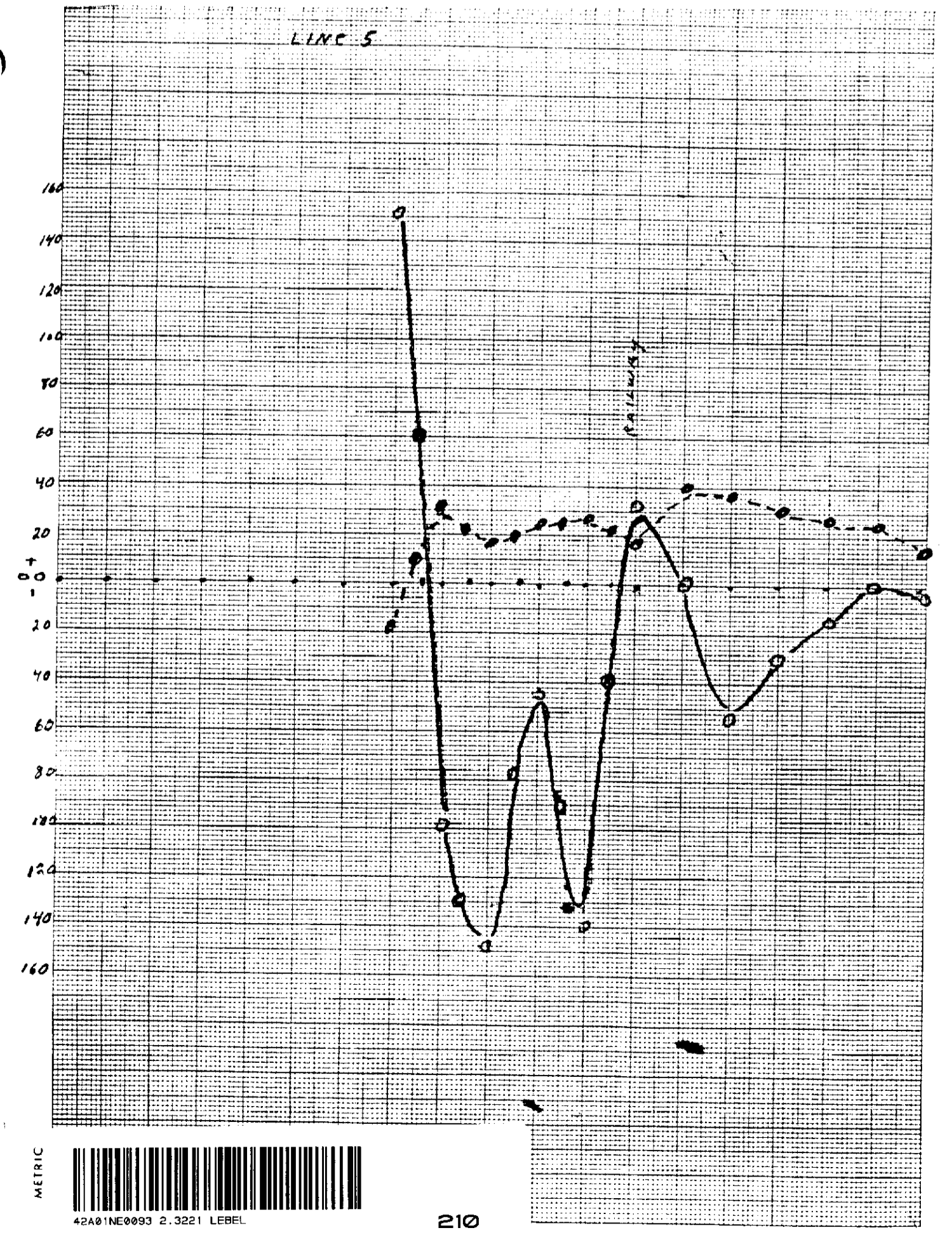
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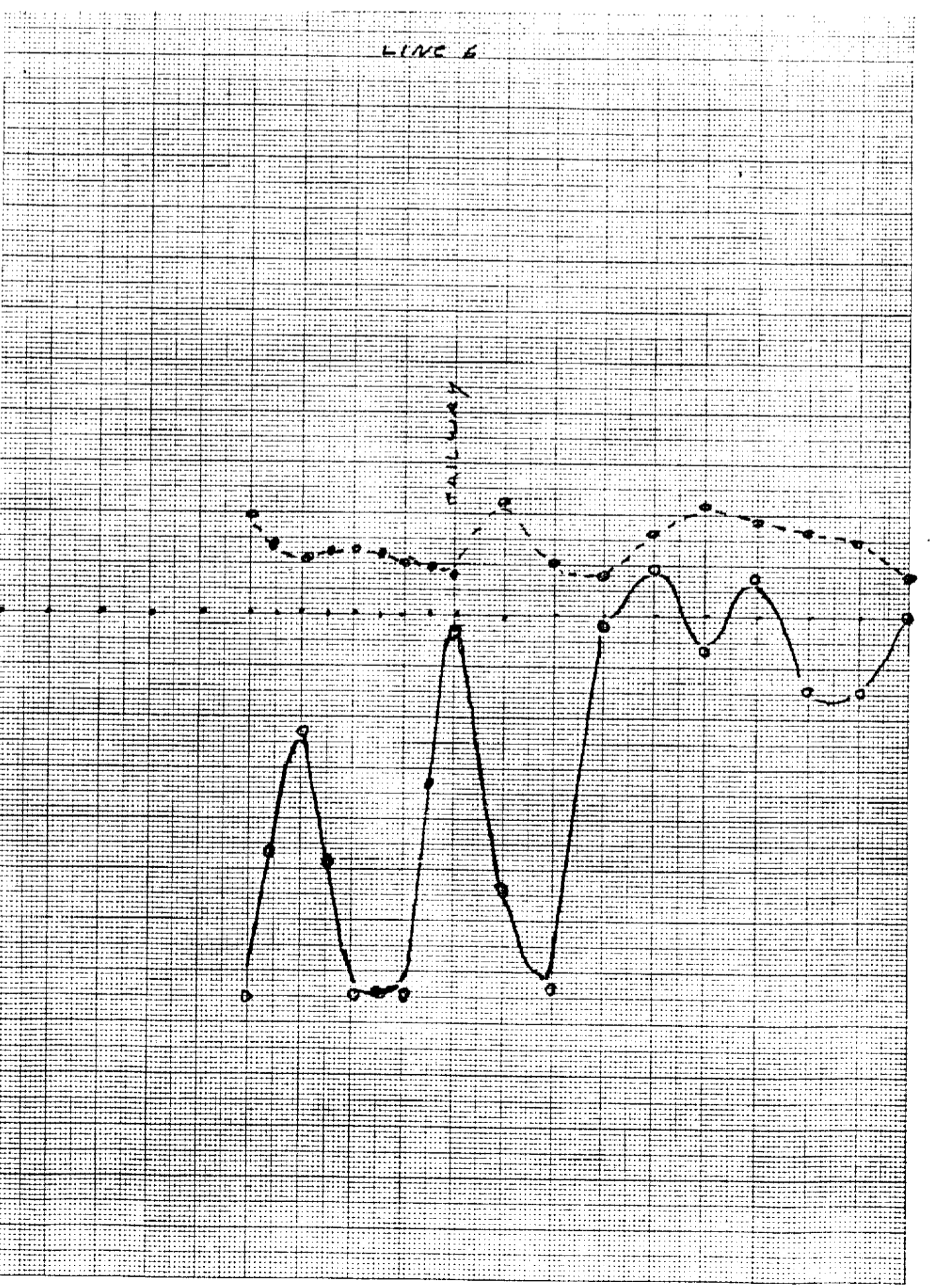
LINE 4



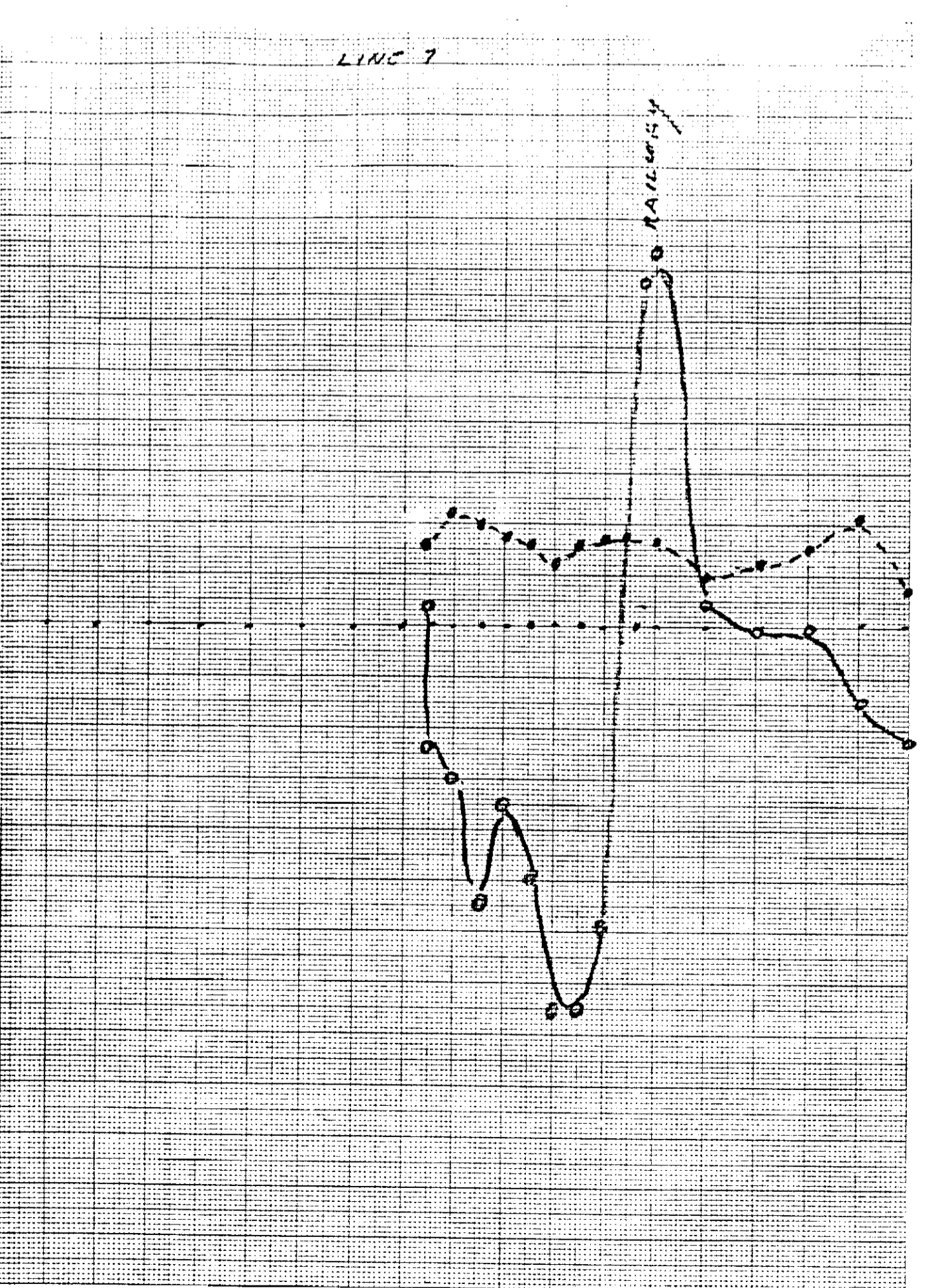
LINE 5



LINE 6



LINE 7



LINE 8

