



41P12SW0089 2.2731 YEO

010

REPORT ON
McVITTIE AND CANADIAN CREST GOLD MINES
CLAIM GROUP CHESTER AND YEO TOWNSHIPS
ONTARIO
AIRBORNE MAGNETOMETER SURVEY

INTRODUCTION

The Airborne Magnetometer was flown over the North Western part of Chester Township and North East corner of Yeo Township to act as an aid to geological mapping now in progress. This survey has also been correlated with Ground E. M. Surveys, I. P. Surveys and Geo-photo mapping via satellite photos.

It is part of an exploration program being carried out by Canadian Crest Gold Mines Limited to try and establish additional drill targets adjacent to their mine, where underground development is now in progress.

(2)

E. J. BLANCHARD

PROPERTY

The property is located approximately twelve miles South and West of the Village of Gogama and is accessible via a new road recently completed by Canadian Crest Mines Limited from Highway 144, six miles westerly to mine site.

GEOLOGY

The general geology of the Central and Southern section of the surveyed area consists of small lenses of volcanics and large areas of Quartz porphyry, the northern edge of the surveyed area is sediments, possibly the Ridout Series.

INSTRUMENTS USED

Airborne magnetometer M-123, Barringer Research Sensor, is Toroidal 104 Series, none directional, noise cancelling.

Hewlett-Packard model 7155, continuous strip recorder.

A Cessna 180 - CF-PKL was used for the survey.

SURVEY

The survey consisted of flight lines North to South and South to North. This grid system cut across the various structures that are striking in easterly westerly directions. The flight lines were spaced at 400 feet intervals to coincide with previous I.P. and E.M. ground surveys. The aircraft altitude was 330 feet with Sensor altitude at 250 feet. A total of $9\frac{1}{4}$ continuous miles were flown over the properties. Control of direction was by Auto Pilot-Gyro Compass and excellent Geographical control points. Survey was flown early in the morning, hence light winds and no drift. Readings were recorded every twelve seconds with an accuracy of $\pm 10\%$ of ambient field.

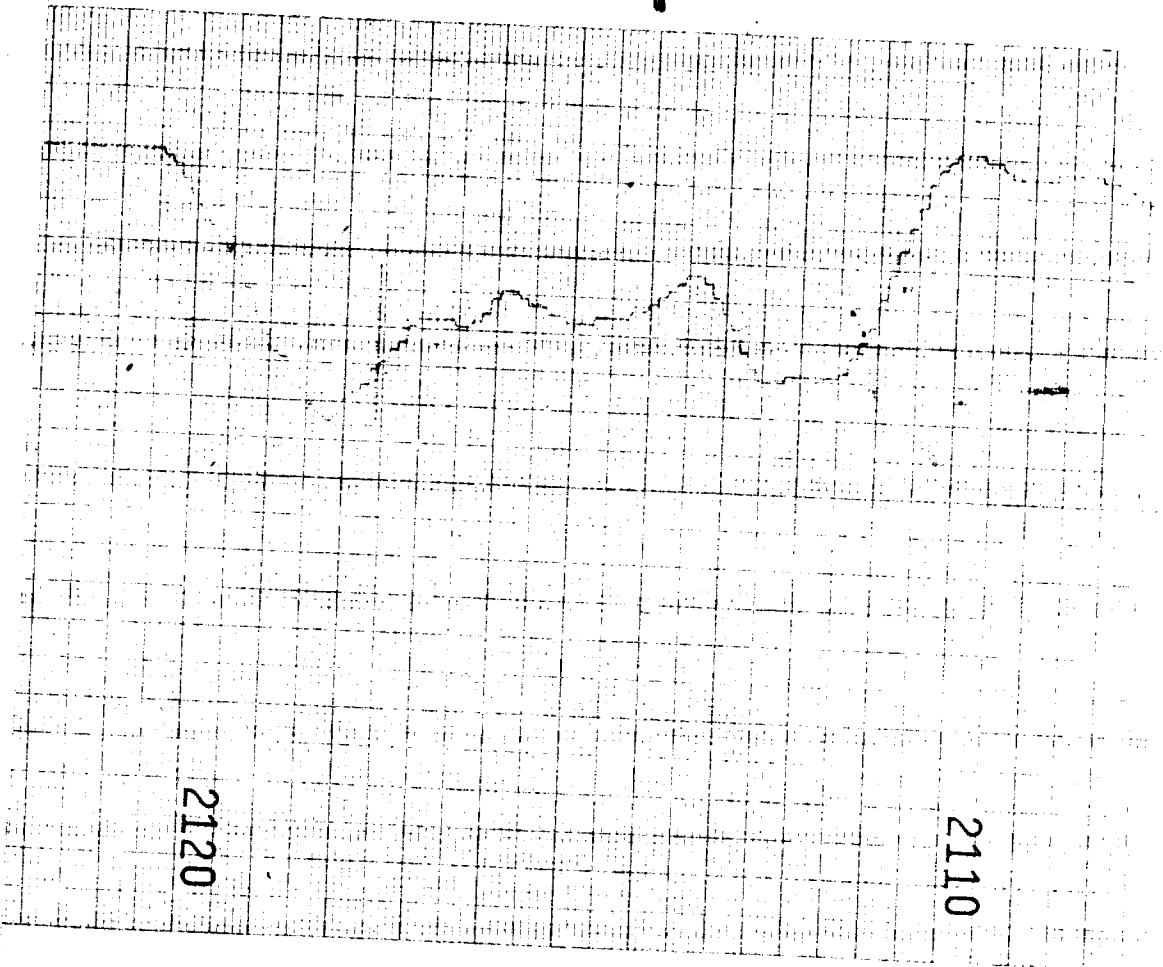
RESULTS OF SURVEYS

All readings were 25,000 + in Gammas. It was deemed that readings of 200 to 250 represented the basic magnetic background in the area.

The area's of priority magnetices are an area on lines 31S, 30N, 29S, 28N, and 27S. This area ranges from 400 - 600 Gammas higher and may be due to Sulphide mineralization along limbs of the porphyry intrusions. Sulphide veins are known to exist some 600 feet to the East and 1300 feet to the North. All magnetices should be correlated with the known Sulphides show's, the I.P. Survey, E.M. Survey and Geological mapping, for a final interpretation of results.

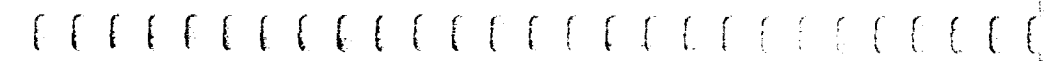
A more comprehensive interpretation of the magnetices will be possible after the detailed geological mapping now in progress is complete.

A handwritten signature in cursive script, likely reading "L. W. Stewart", is located in the lower right quadrant of the page.

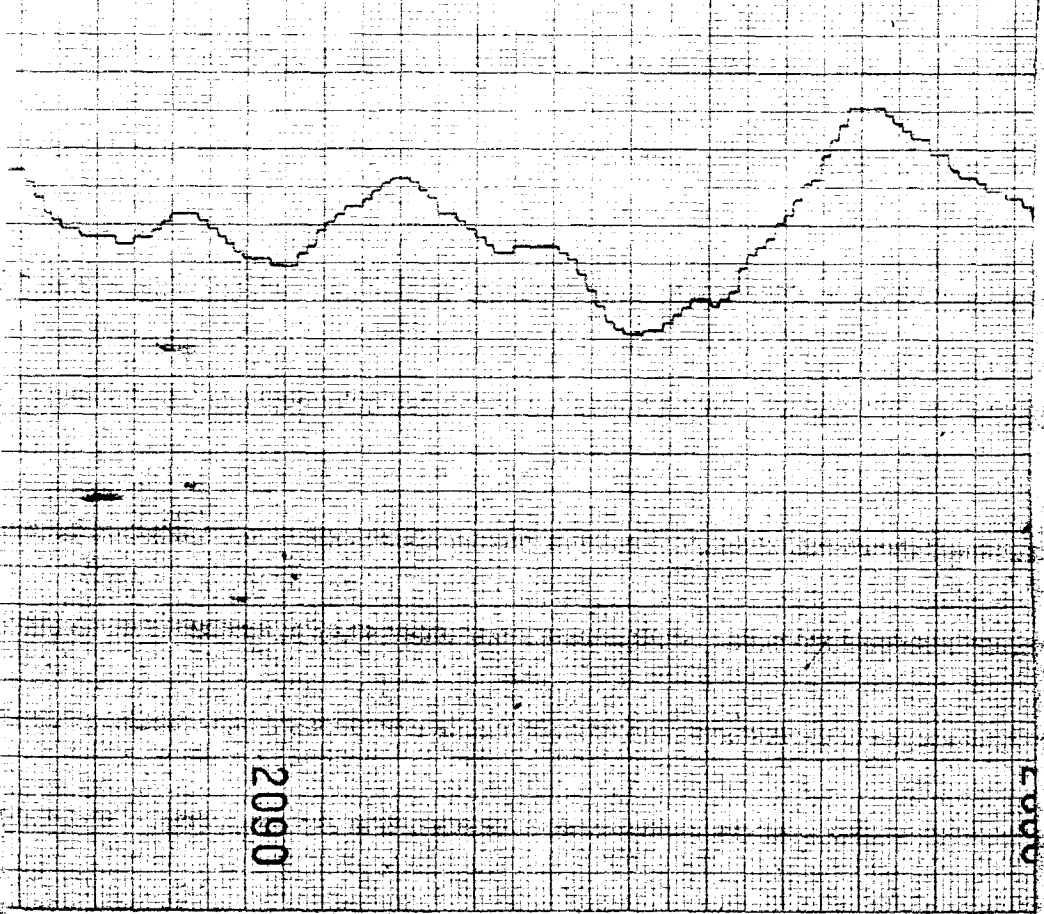


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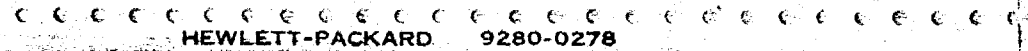


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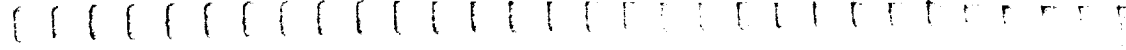


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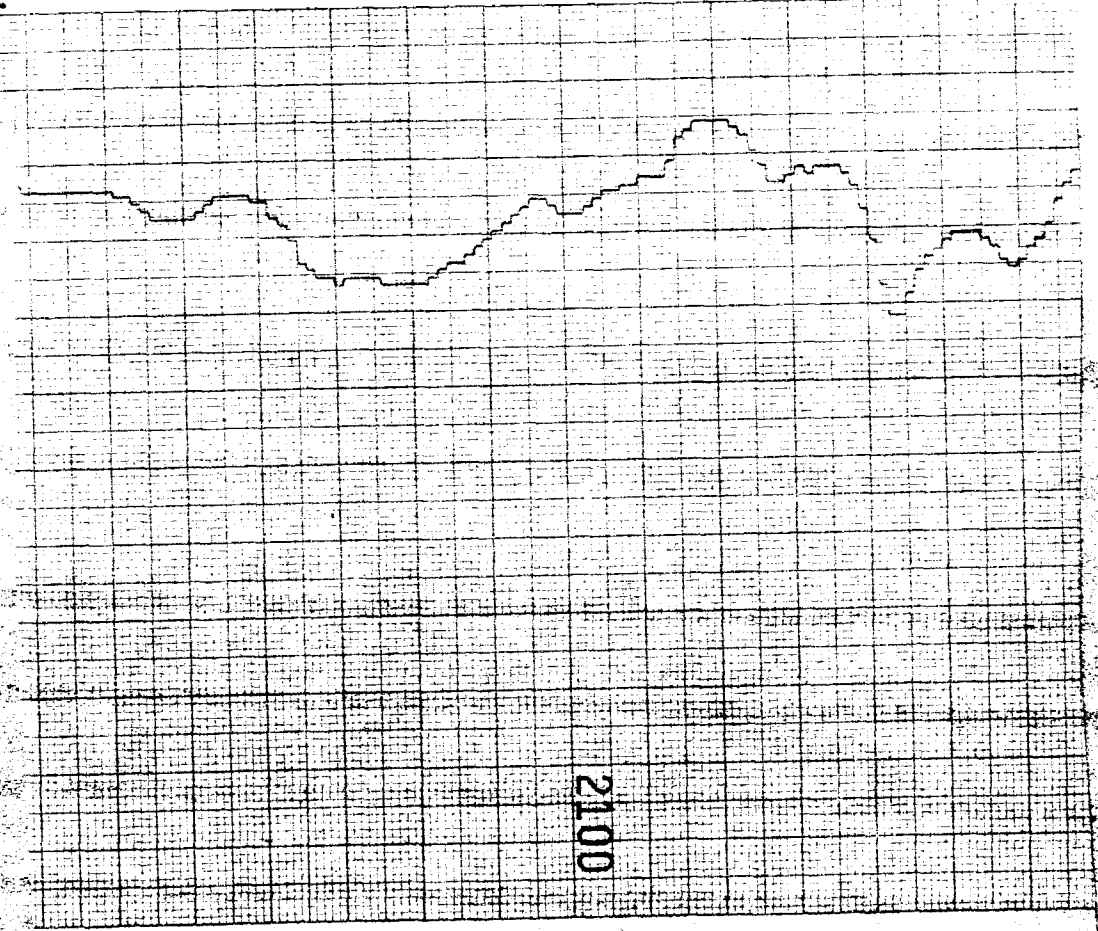
ECG



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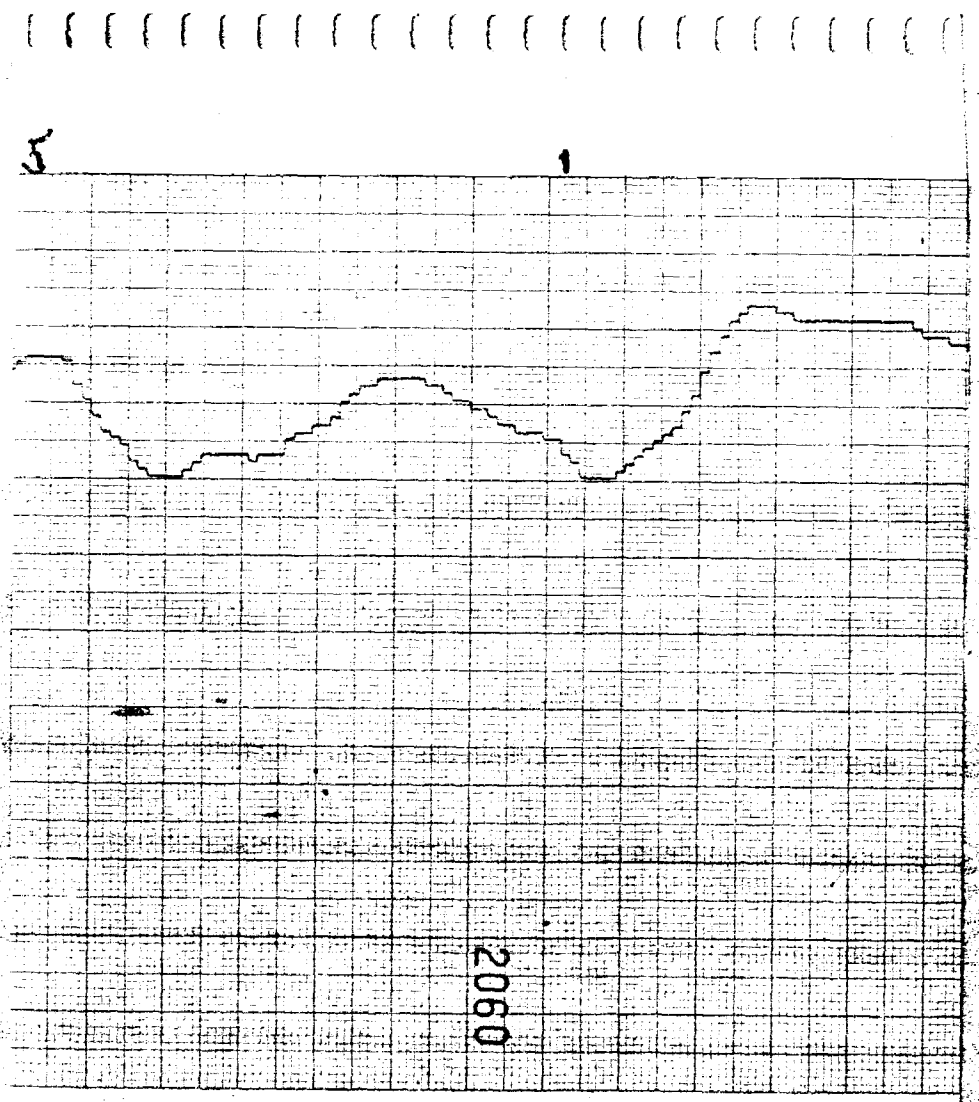
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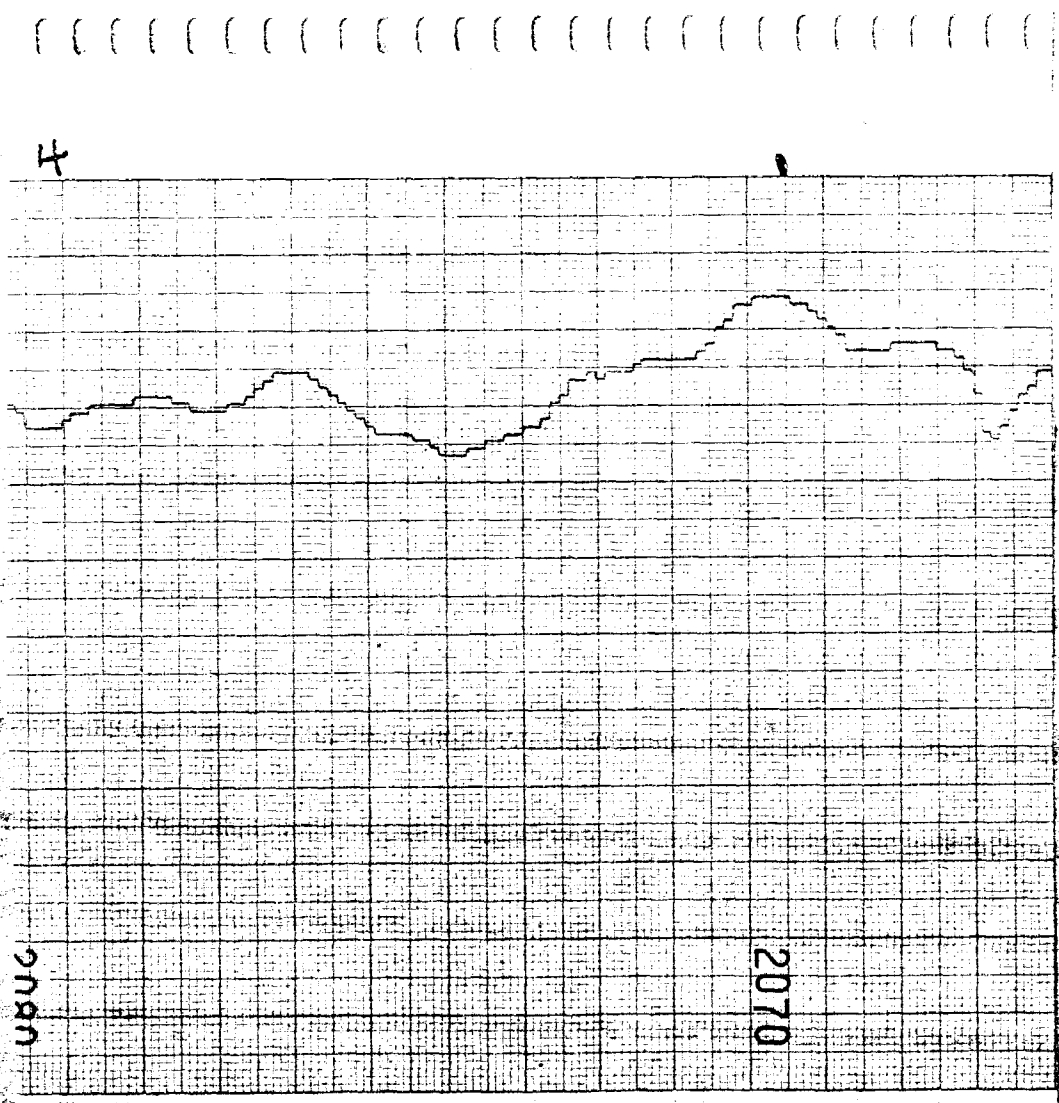


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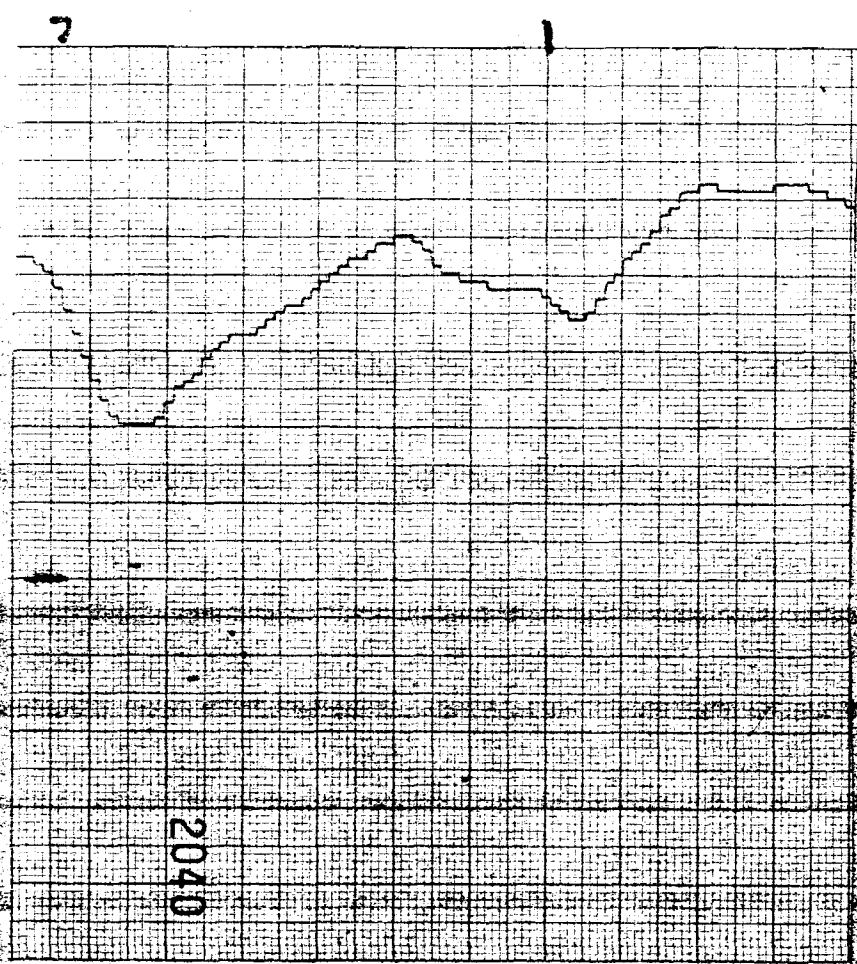


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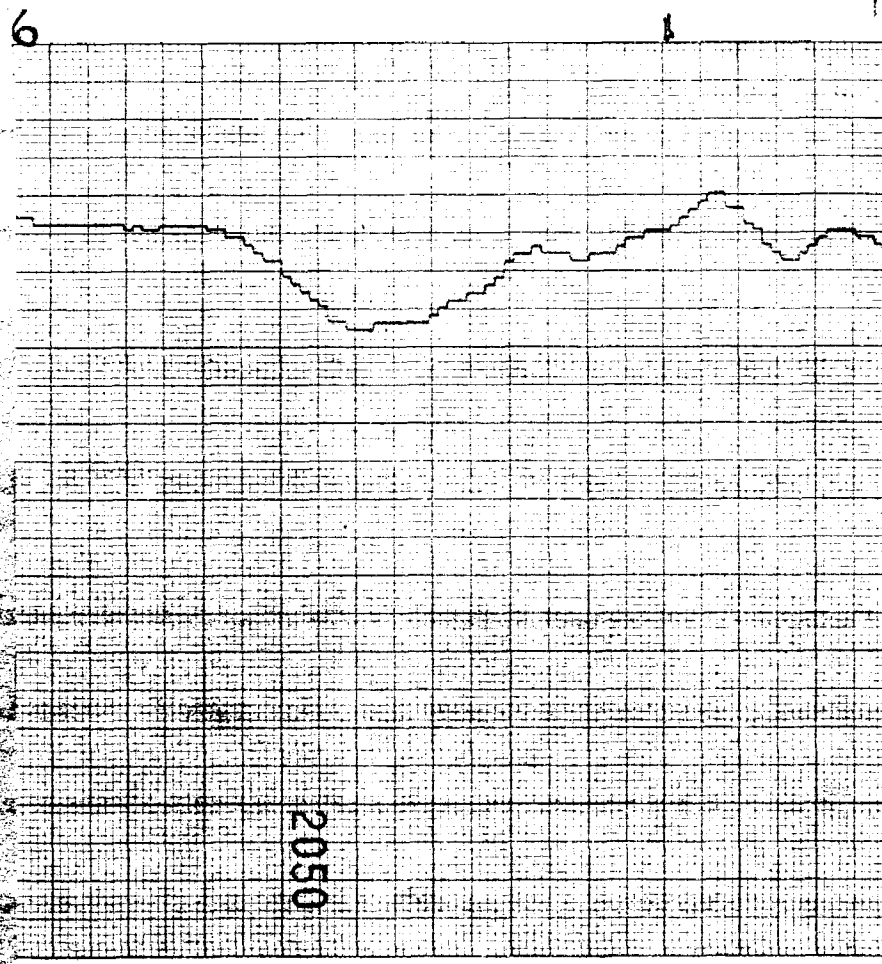
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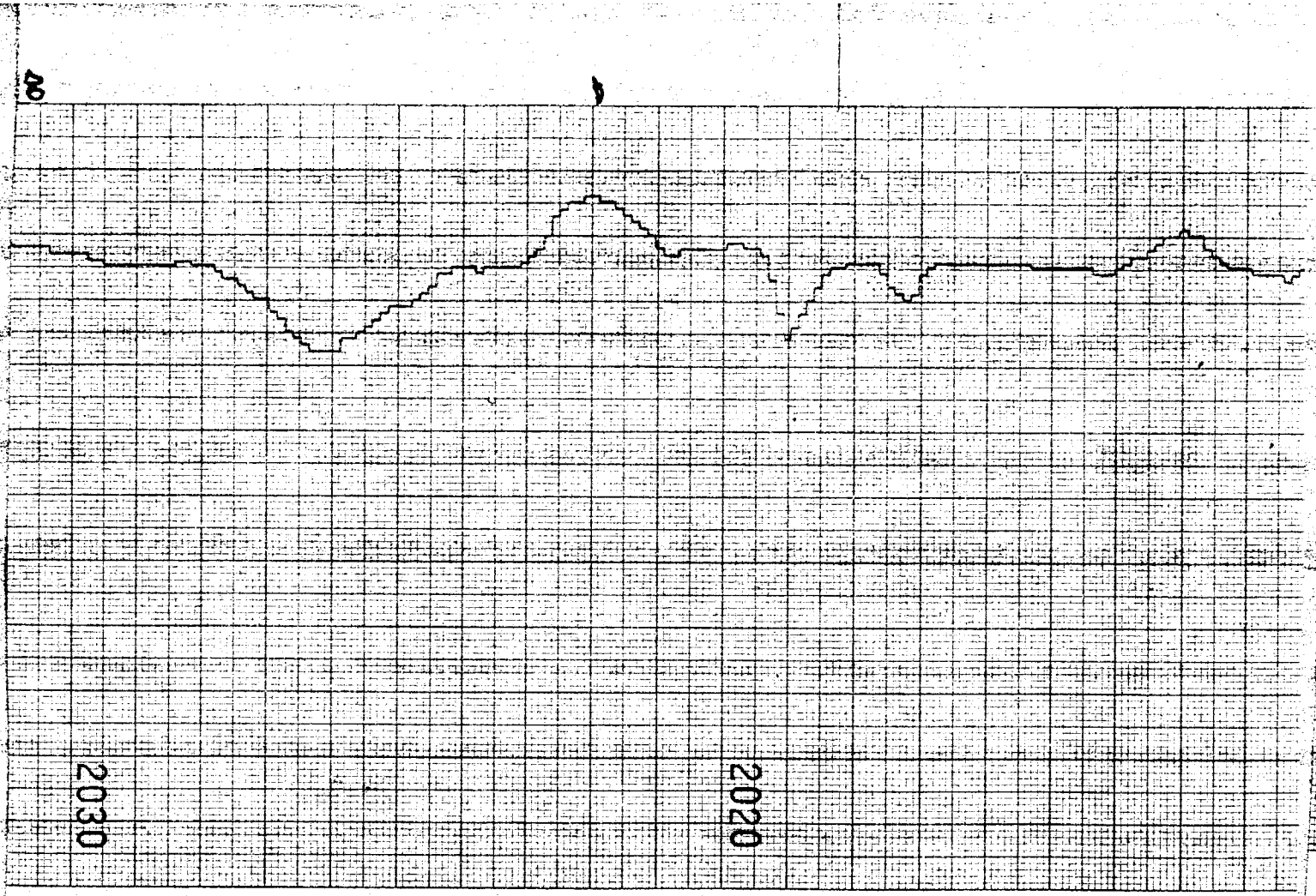


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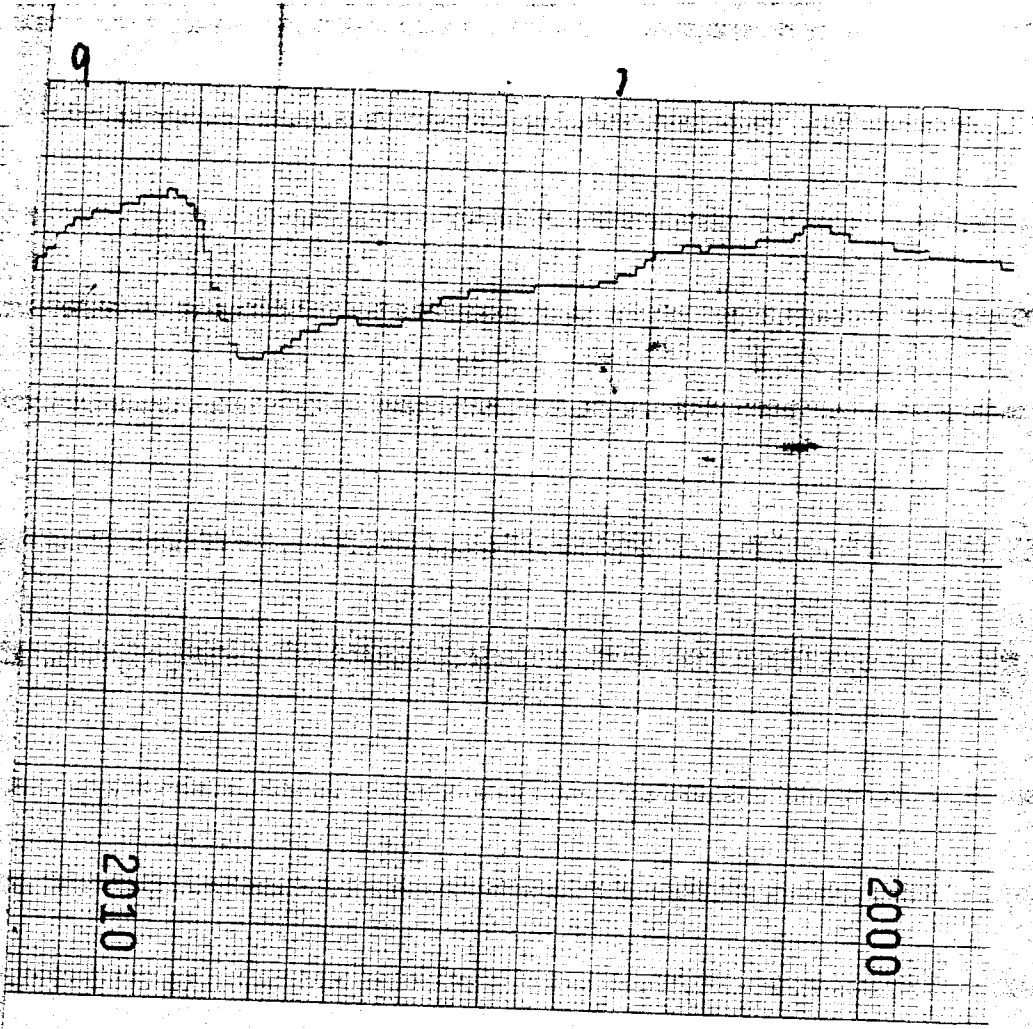


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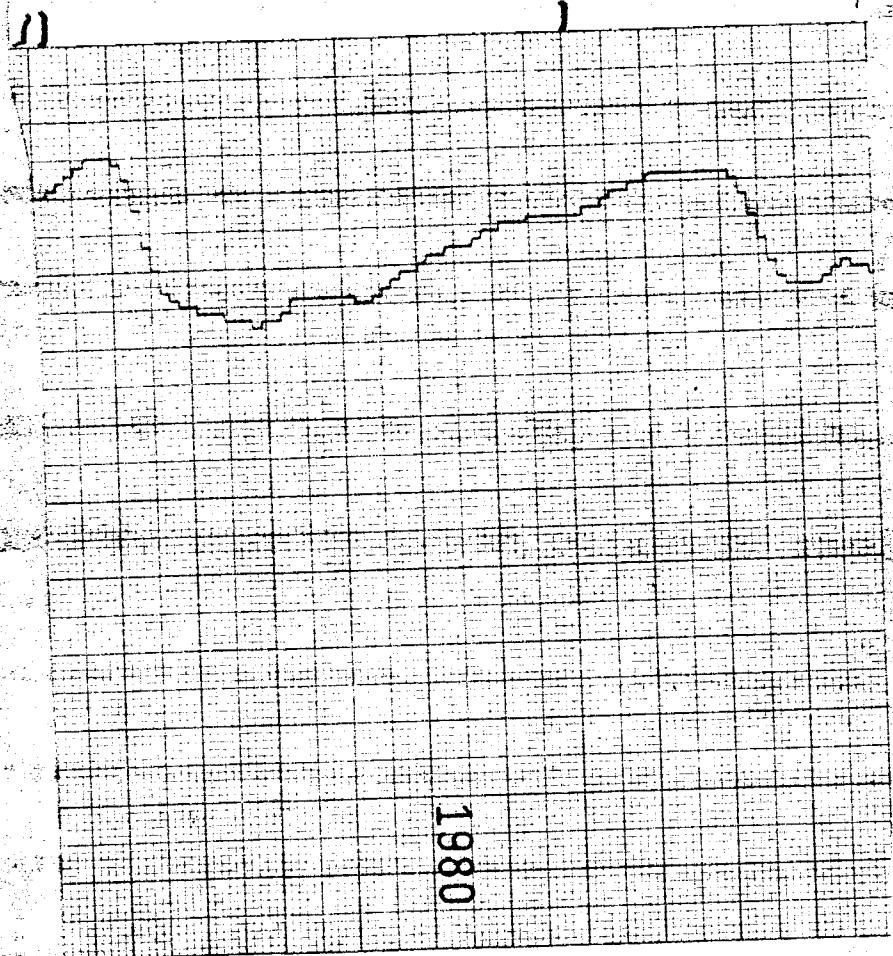
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2020



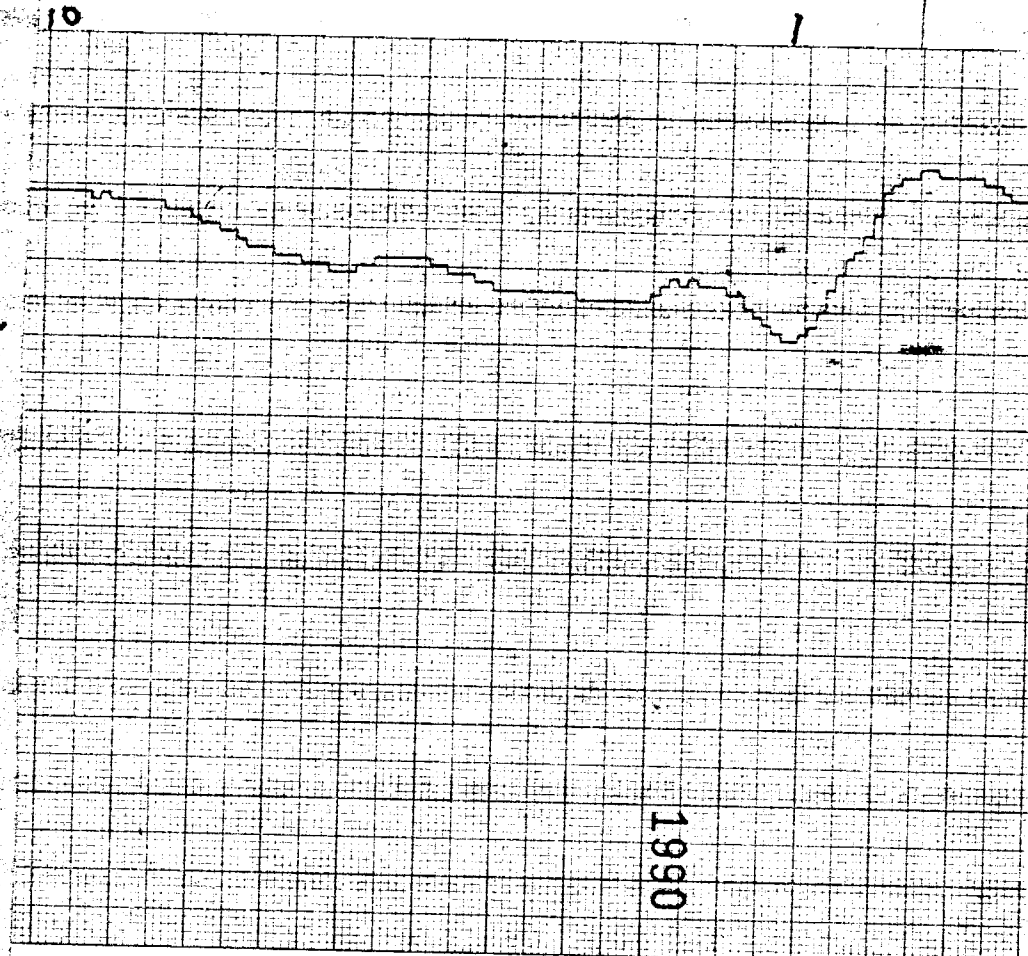
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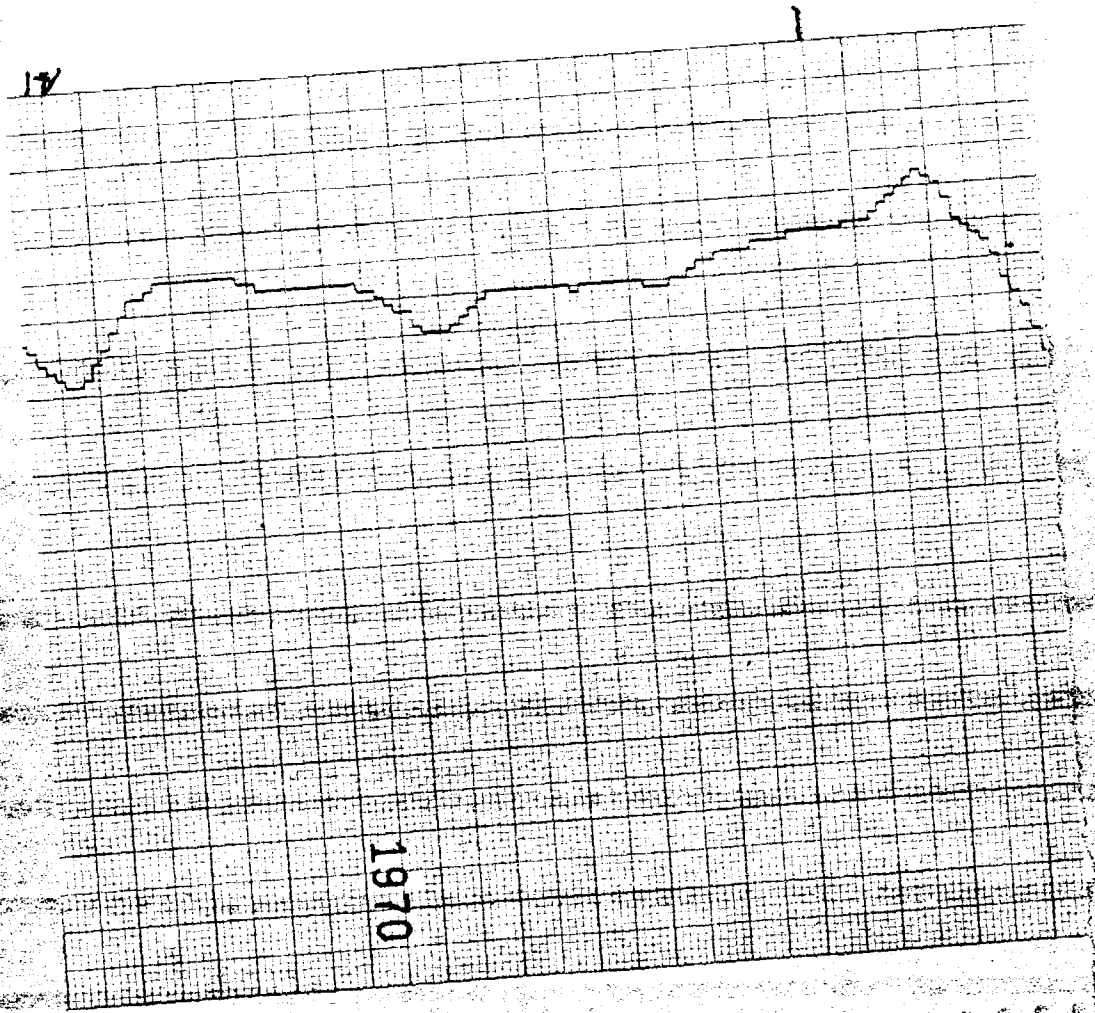
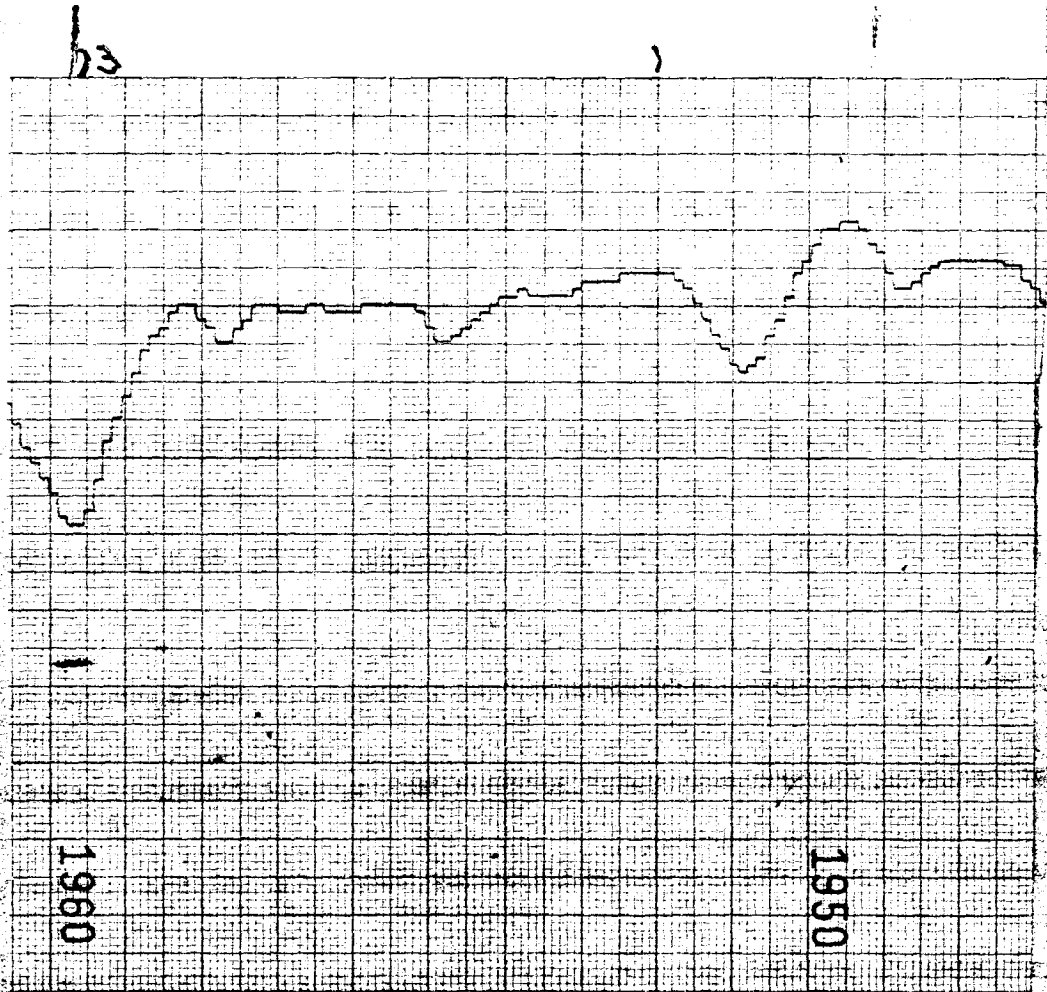
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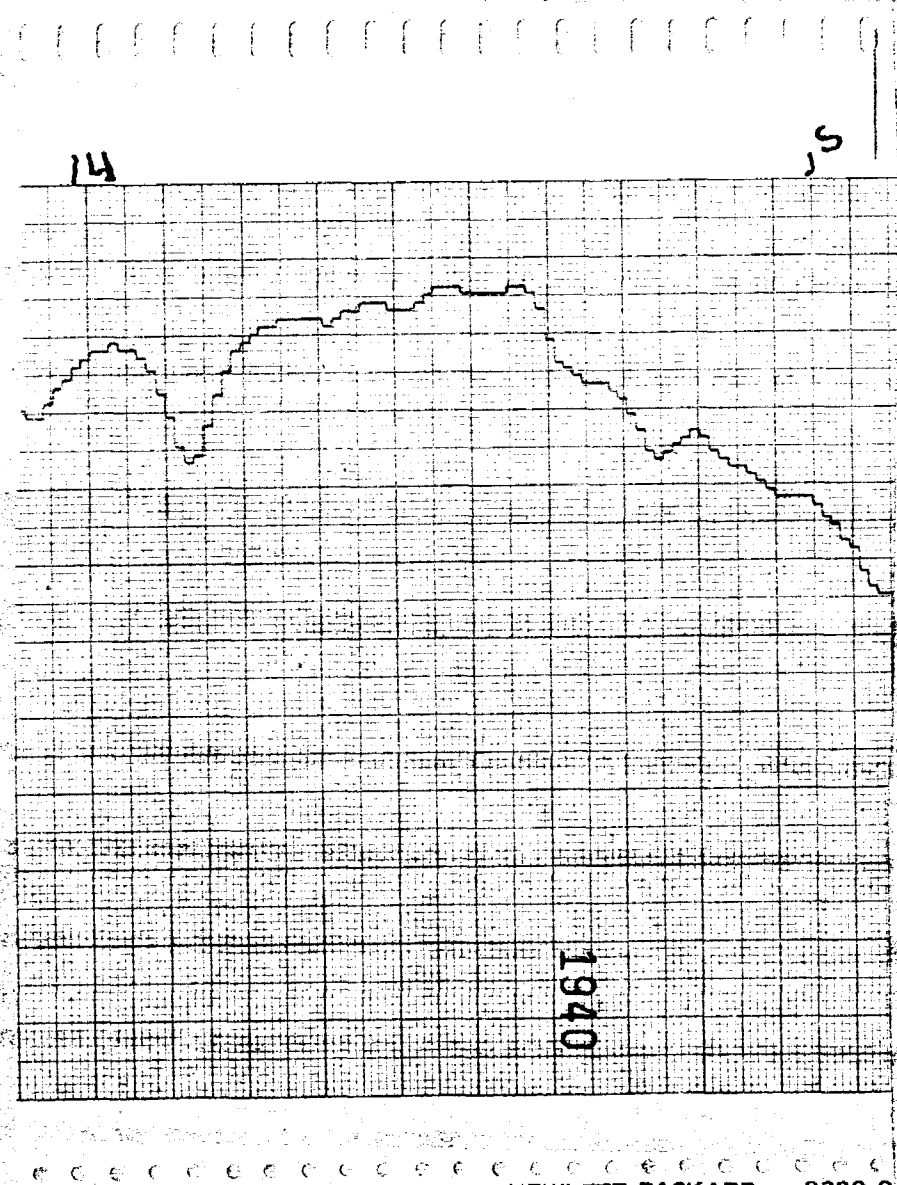
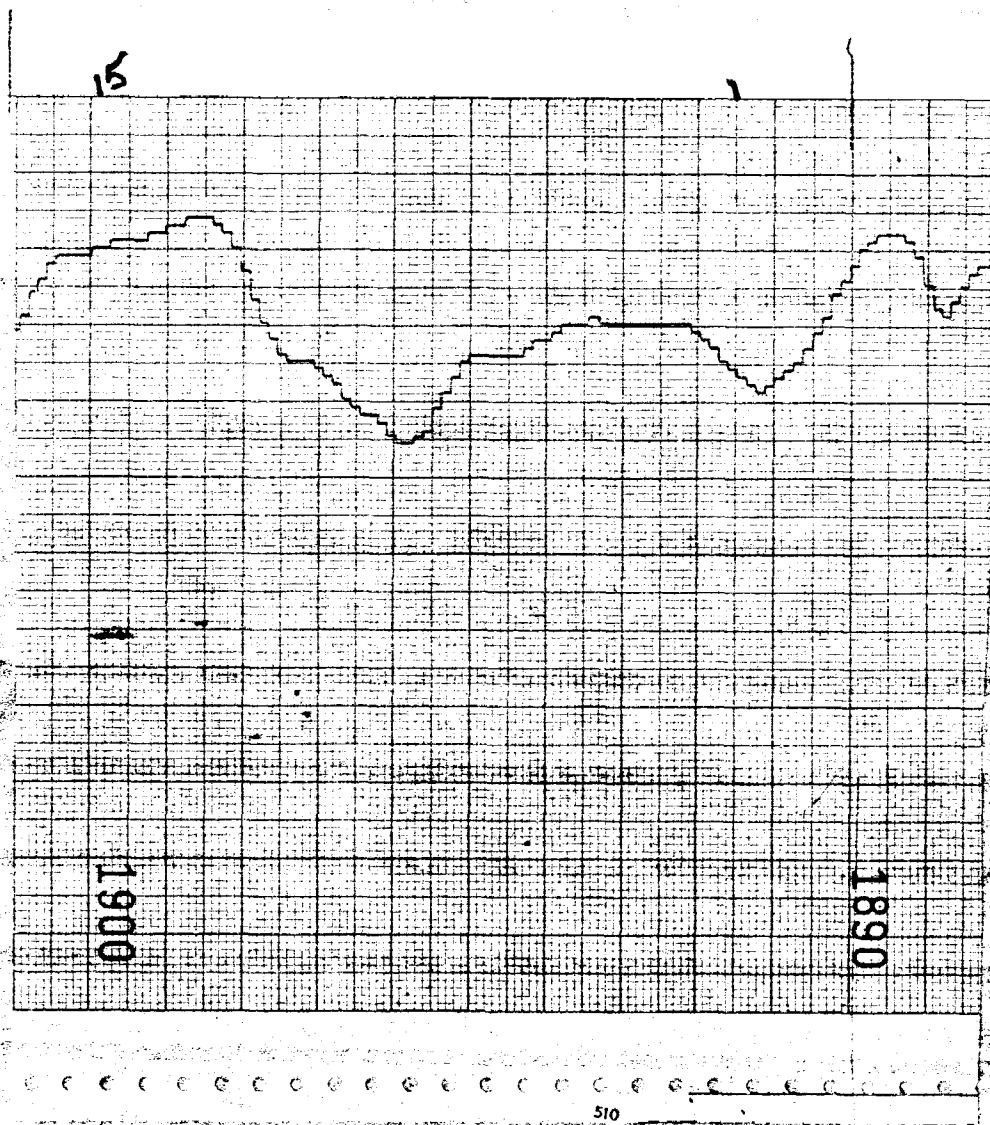


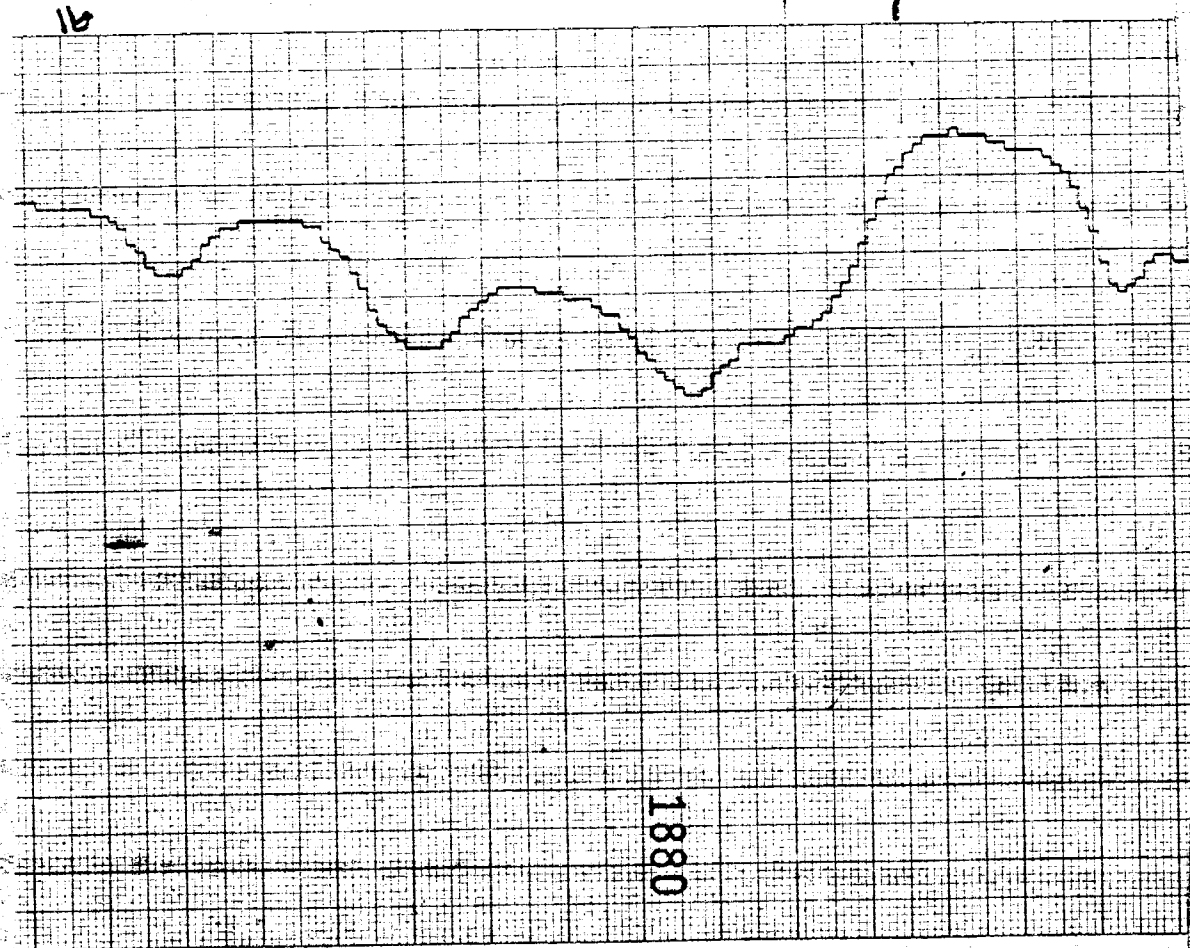
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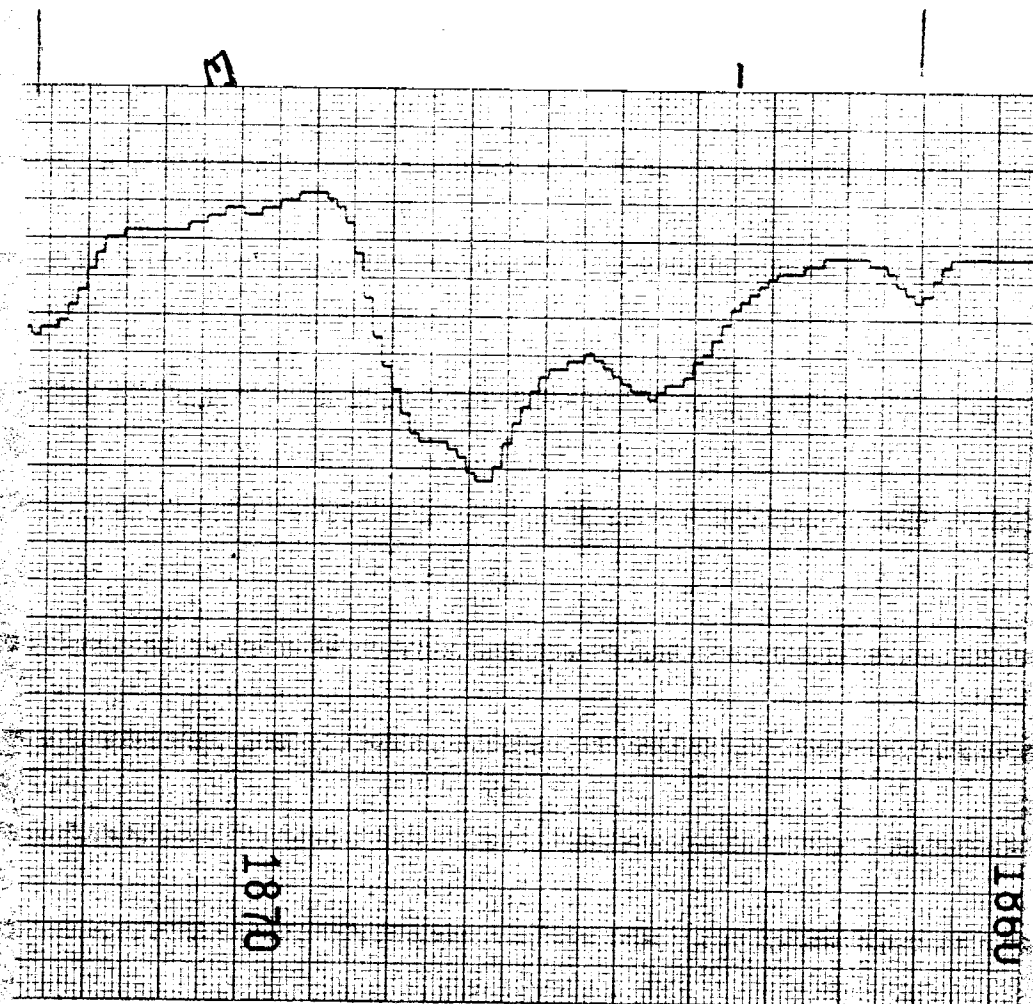


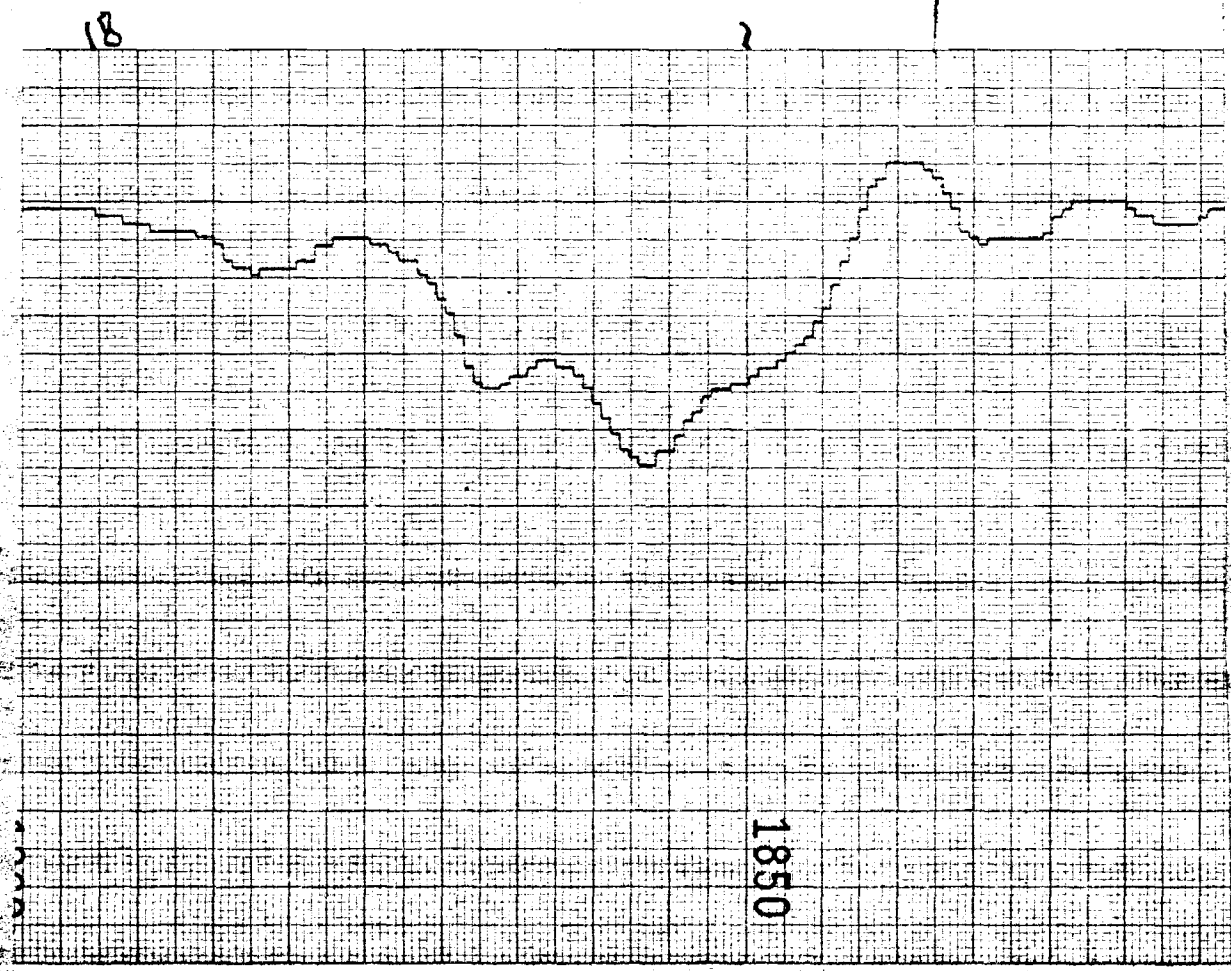
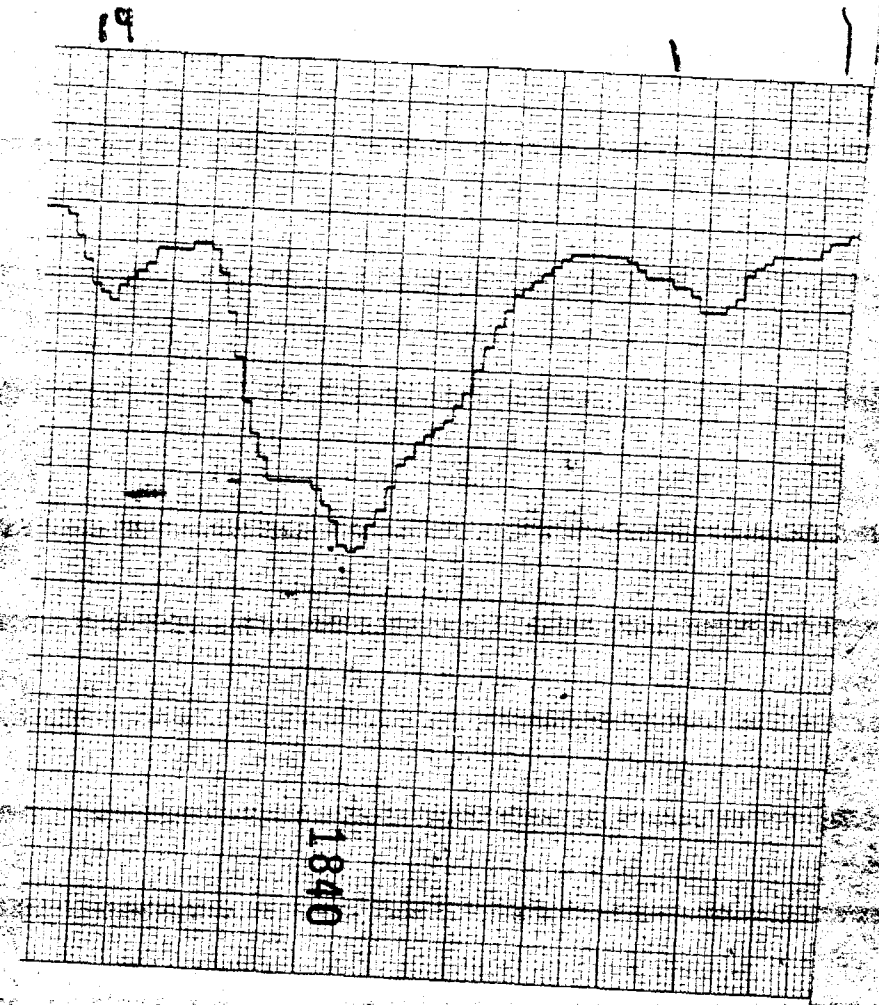
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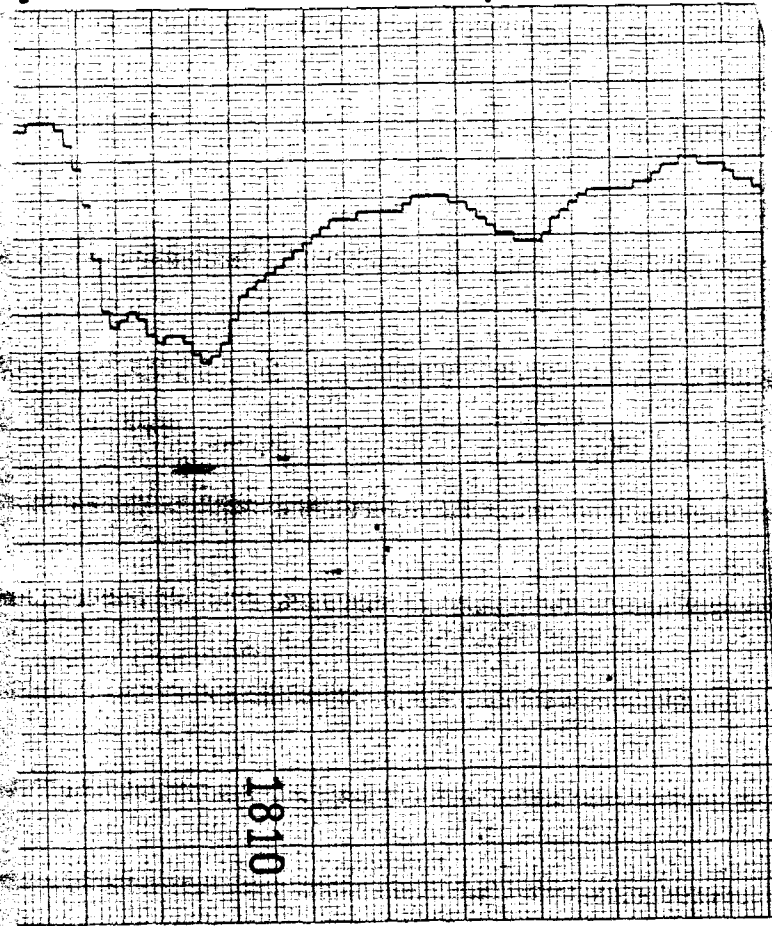


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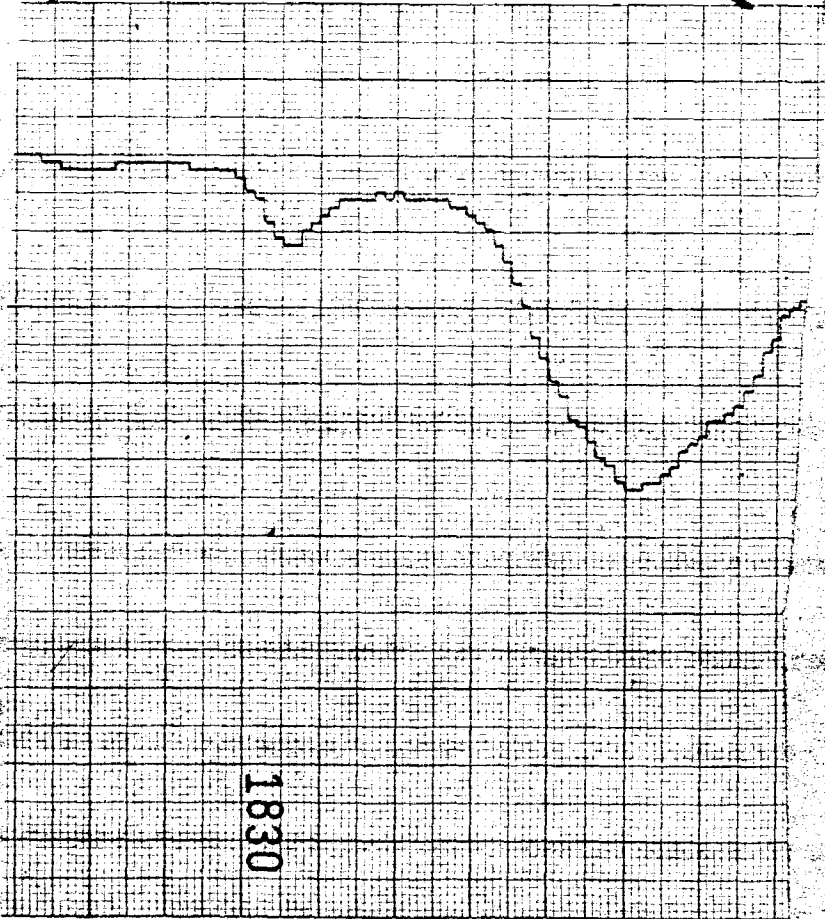


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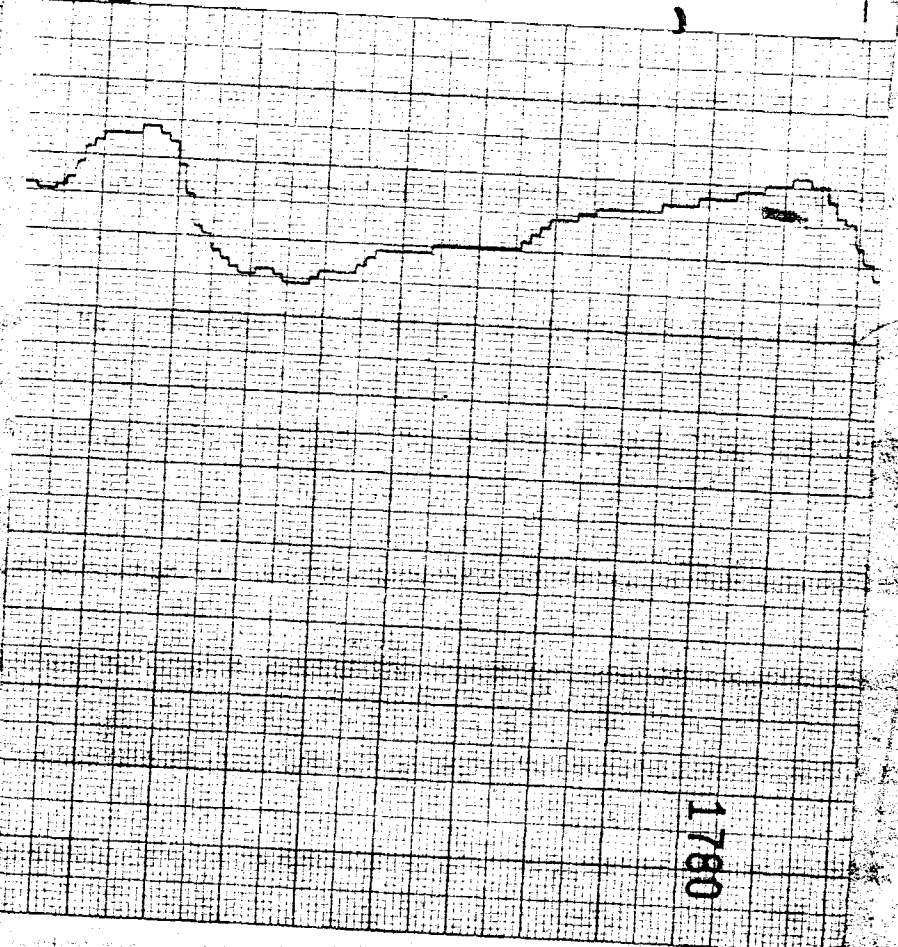
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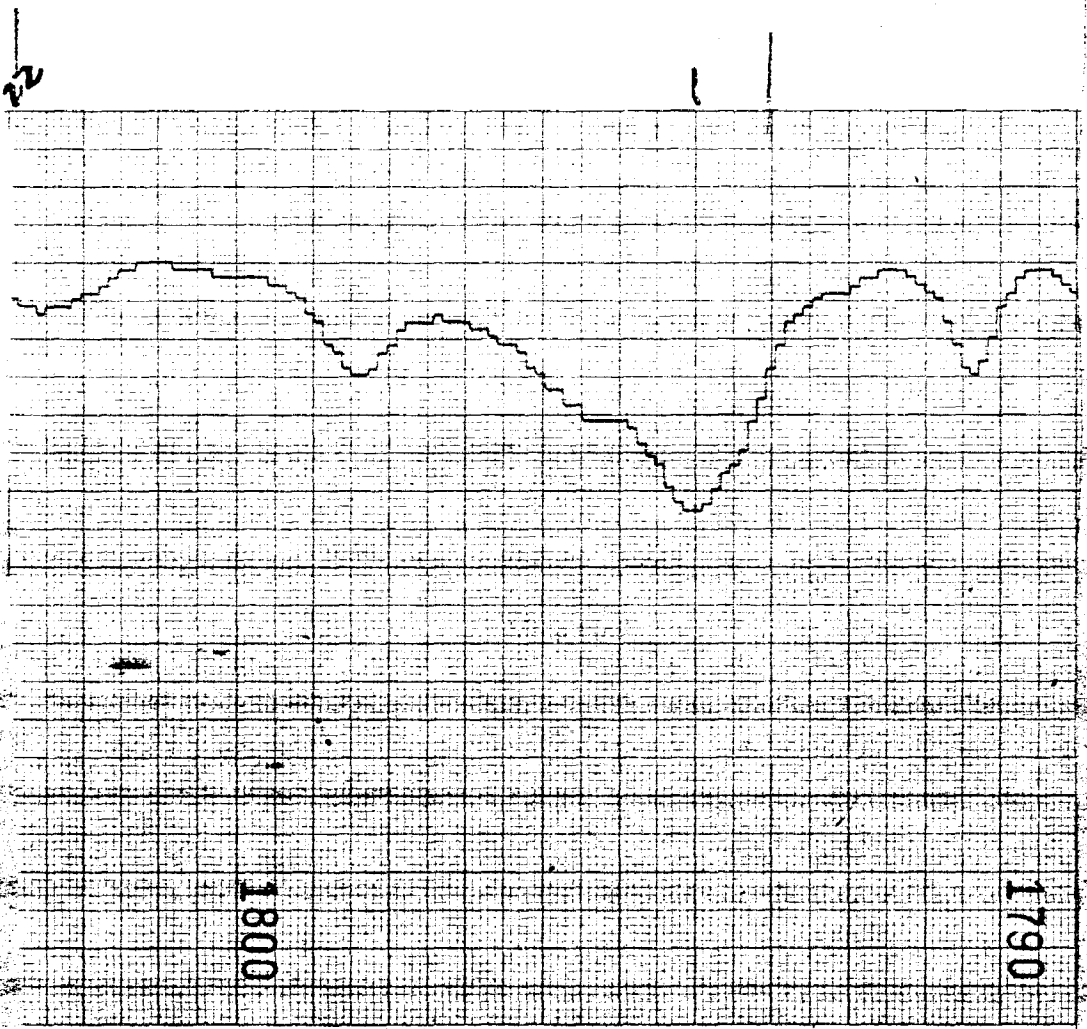
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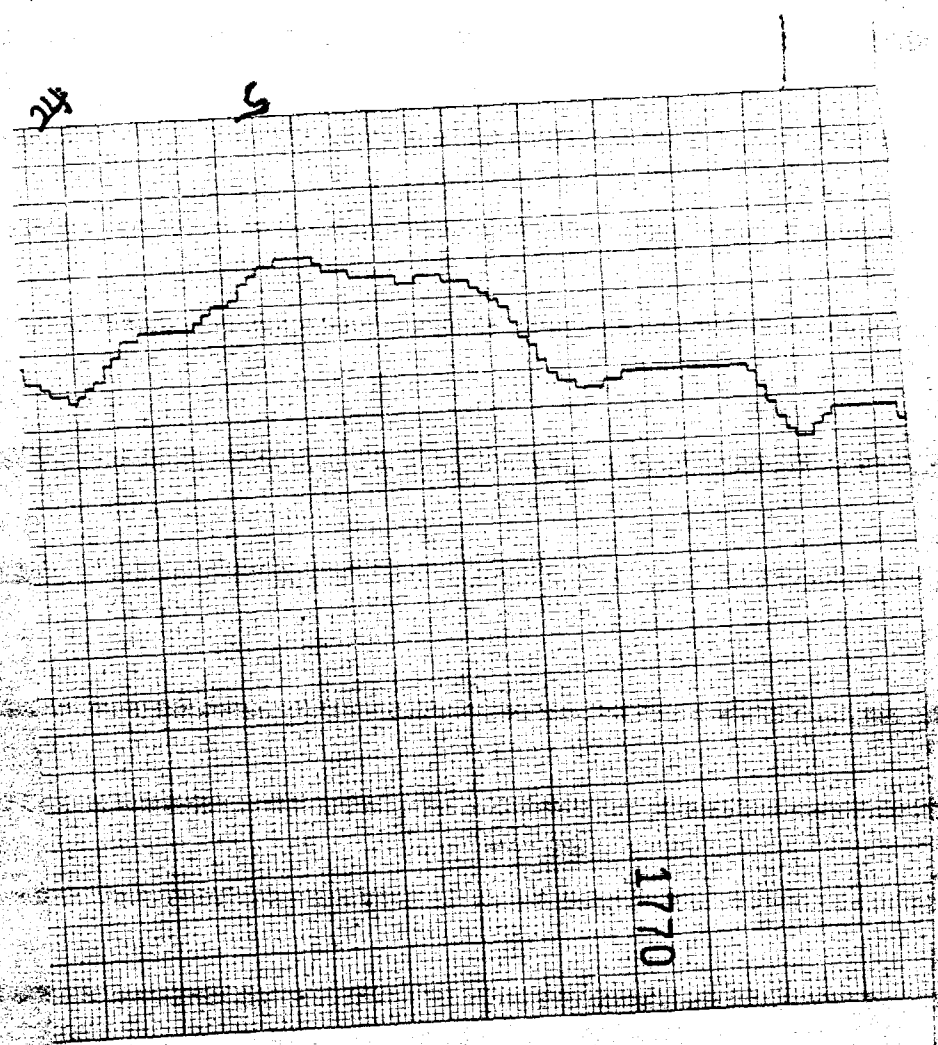


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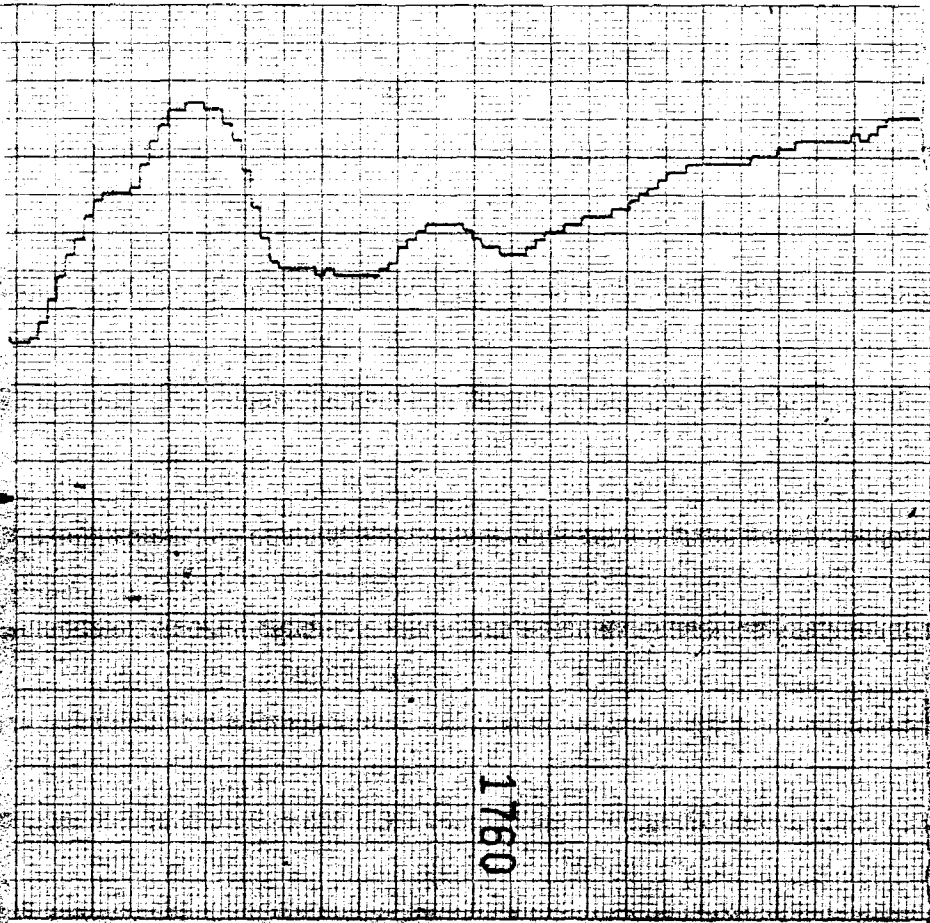


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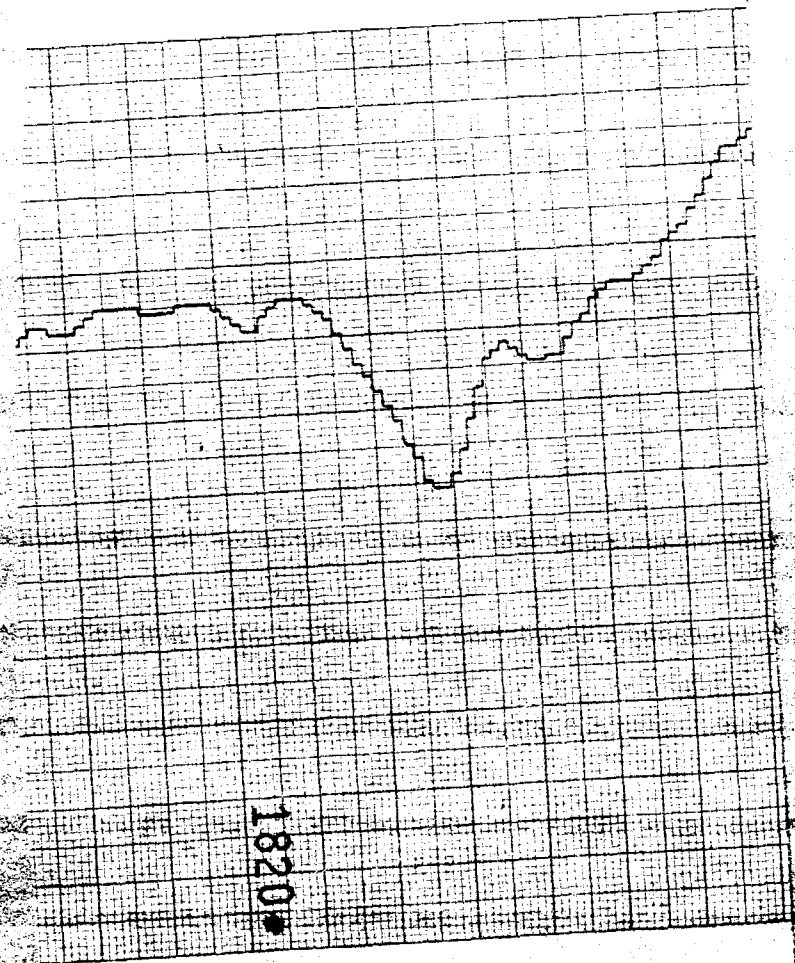


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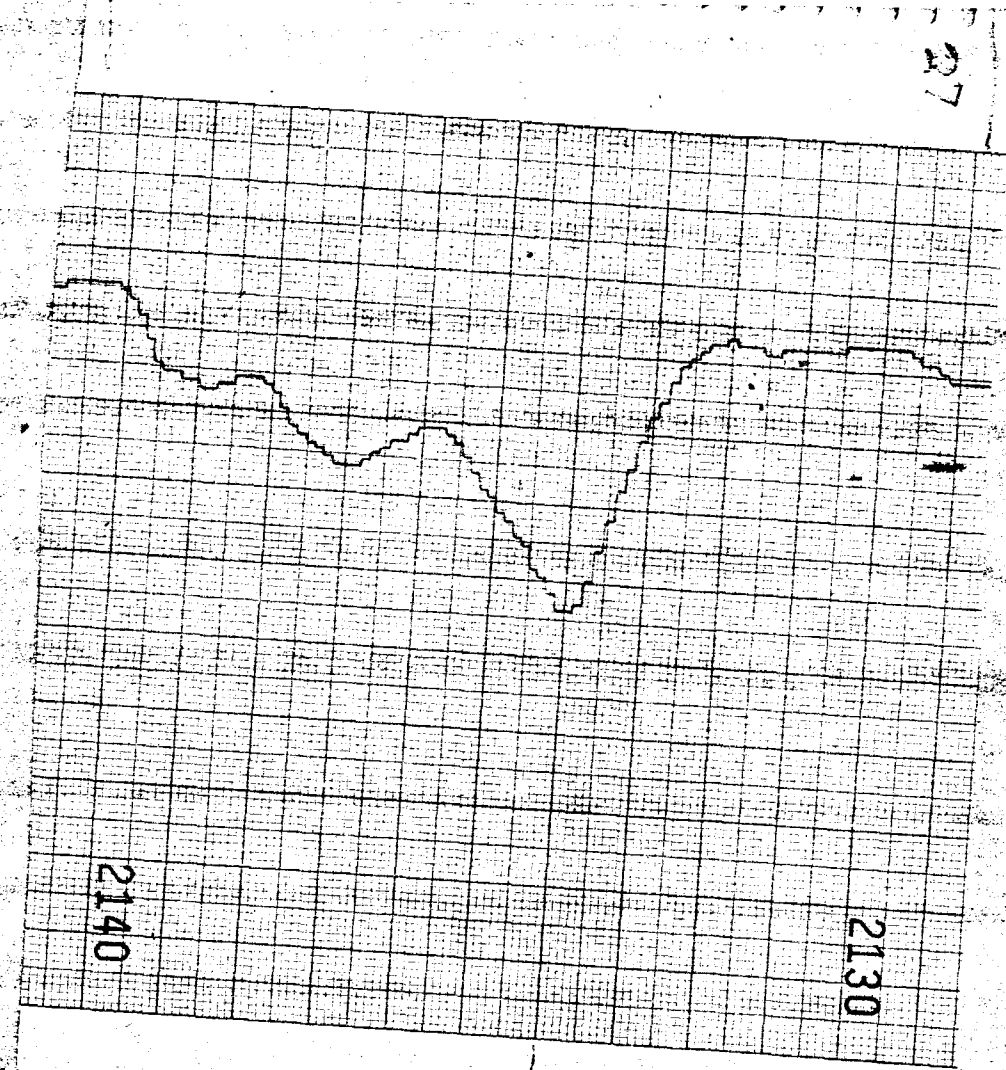
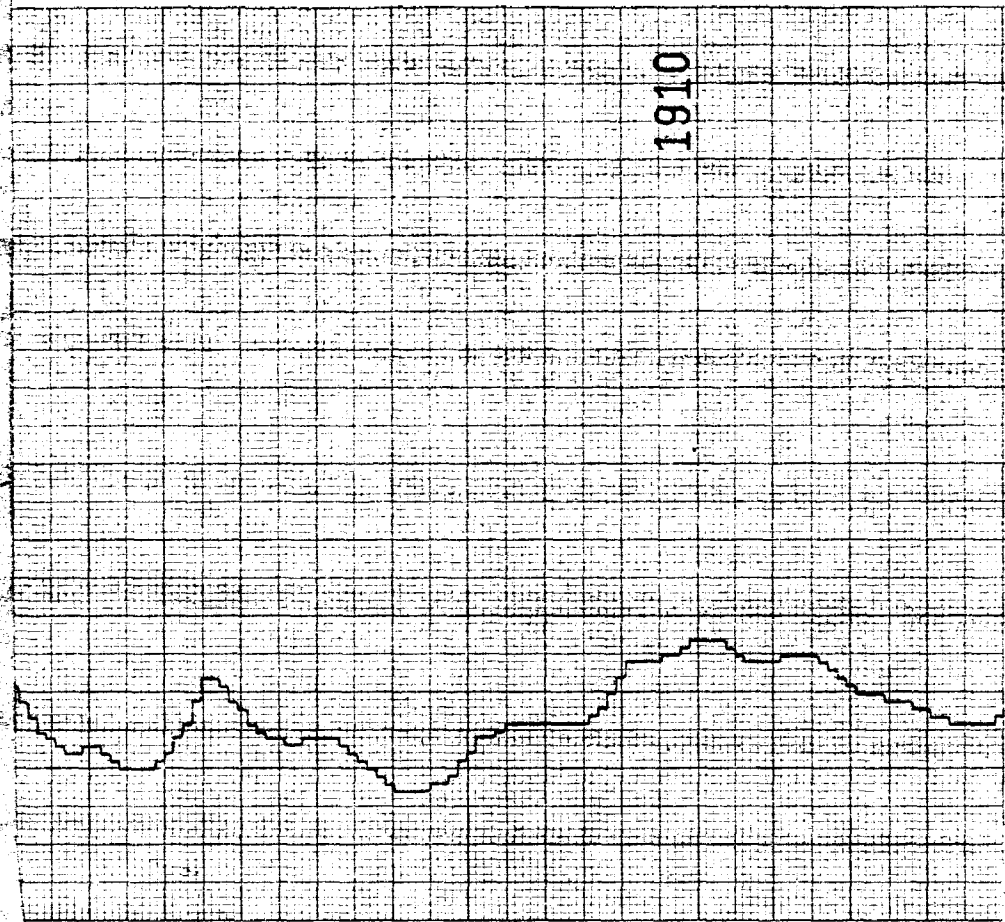
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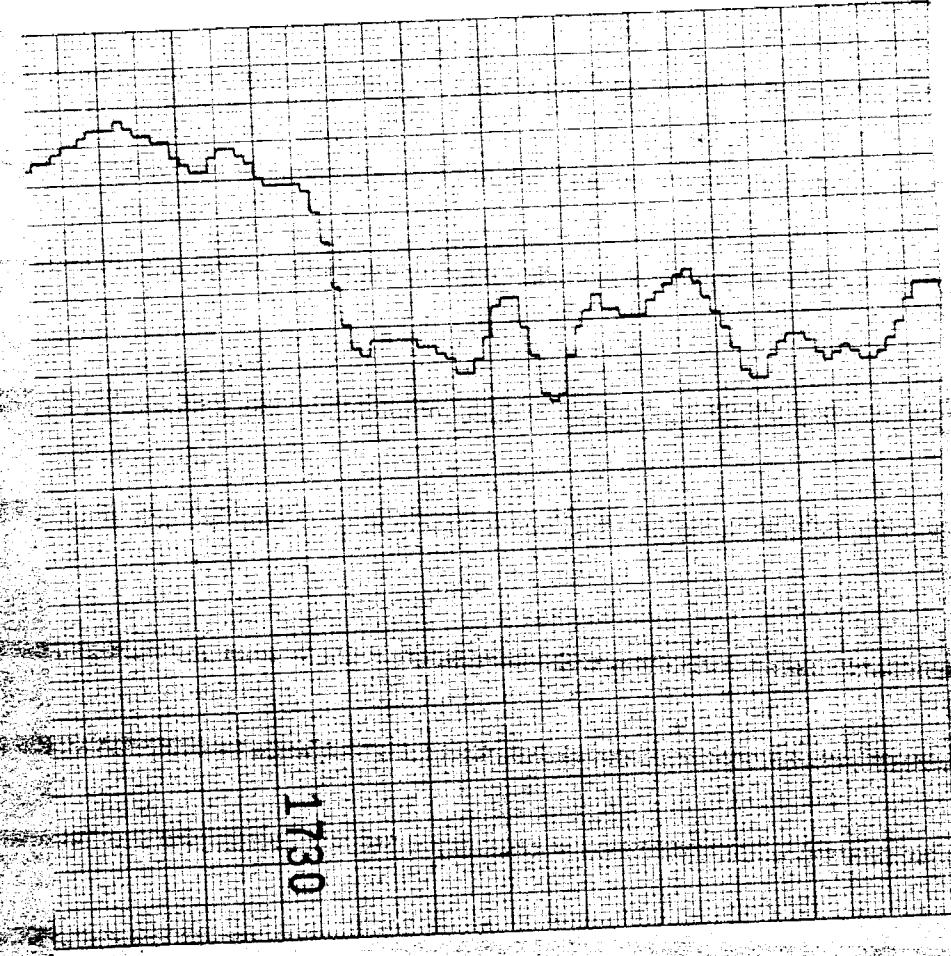
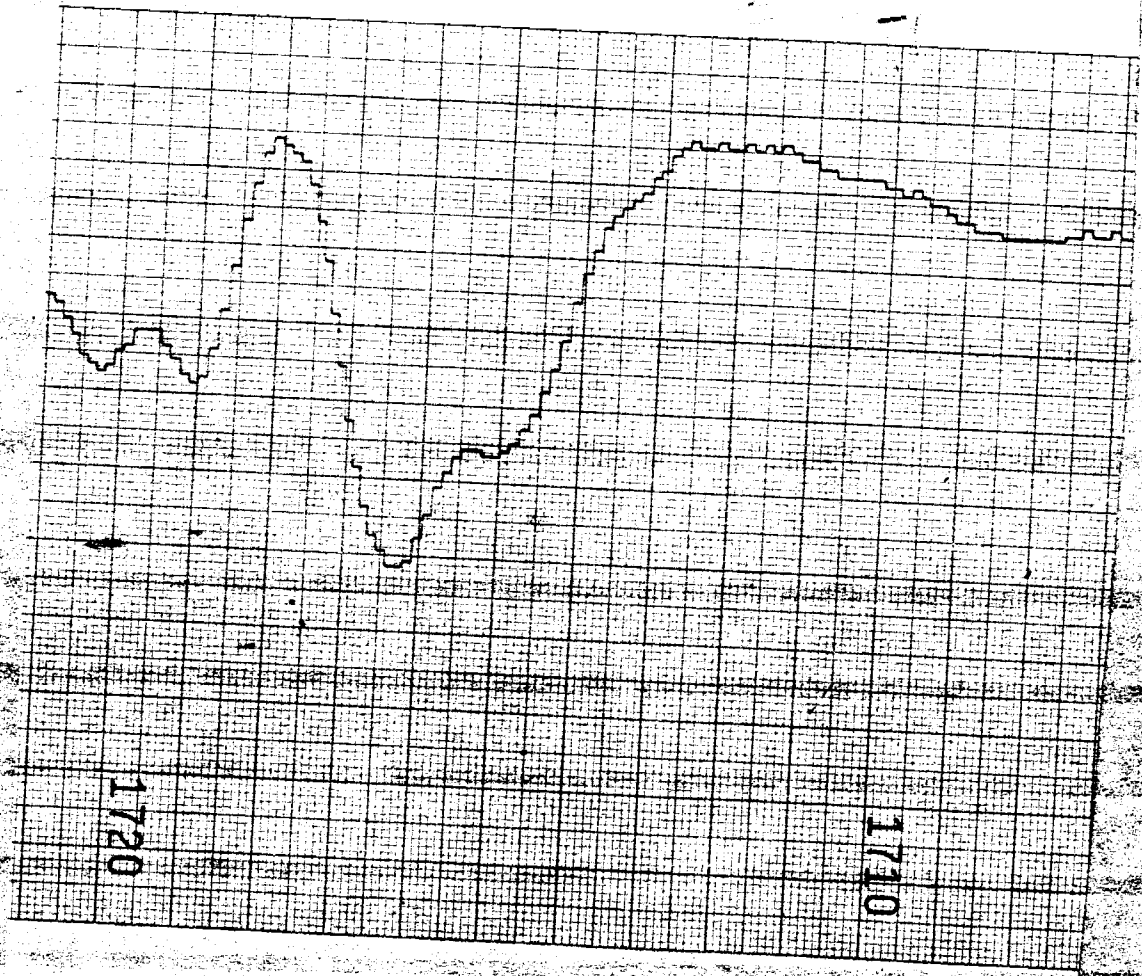
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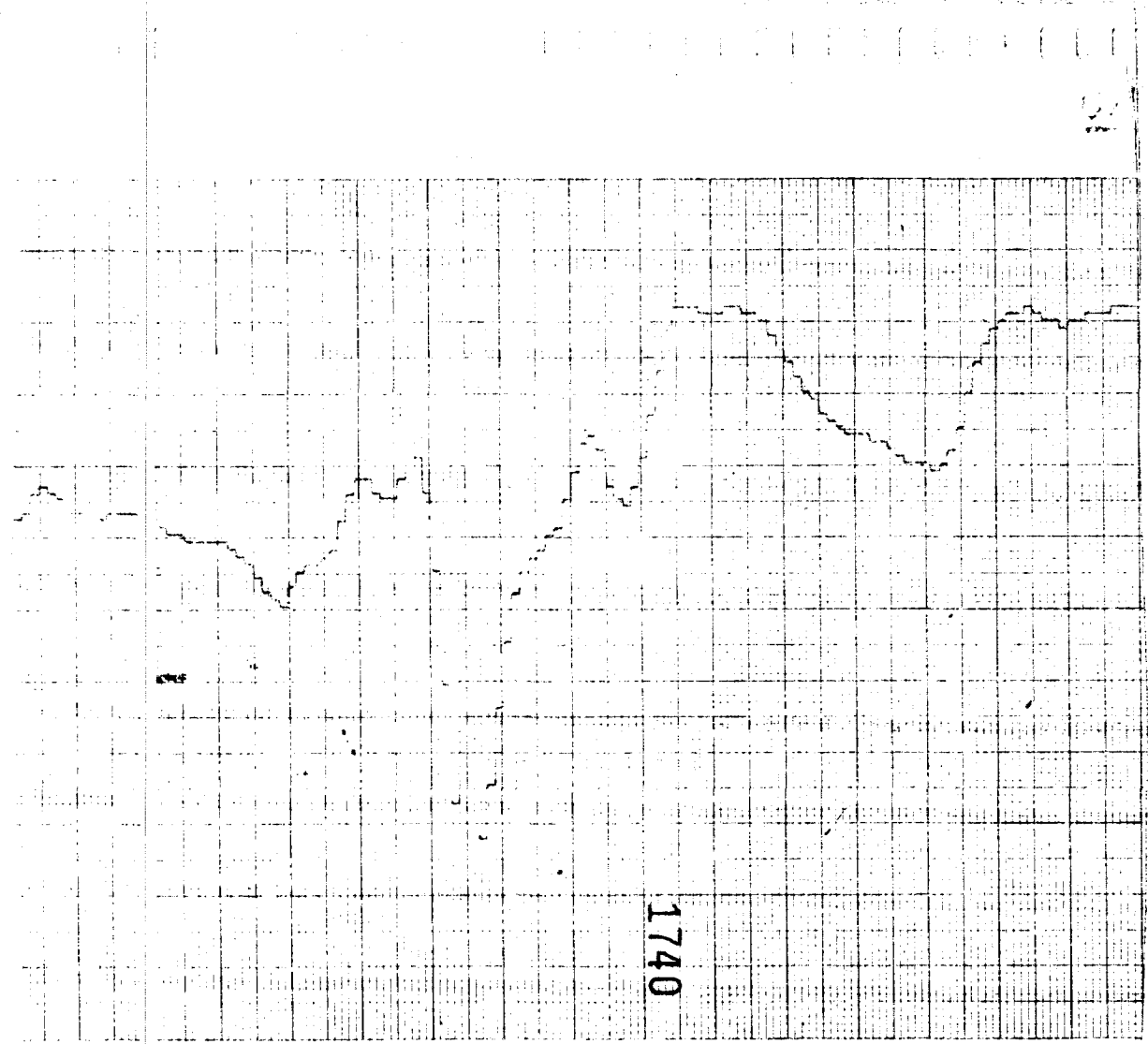


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1740



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.

Type of Survey(s) Airborne Magnetometer
Township or Area Yeo Chester Township
Claim Holder(s) Crest Gold Mines - Harvey Blanchard
Harold Barry - Jack McVittie
Survey Company Erana Mines Ltd.,
Author of Report Edward Blanchard
Address of Author RR#2, Site 38, Box 5, Sudbury
Covering Dates of Survey April 10, 11, 12, 1978
(linecutting to office)
Total Miles of Line Cut Airborne Survey 1570 days

MINING CLAIMS TRAVERSED	
List numerically	
471313 ✓	
(prefix)	(number)
471314 ✓	471137 ✓
393605 ✓	471138 ✓
393606 ✓	471139 ✓
393604 ✓	471140 ✓
393603 ✓	471141 ✓
393601 ✓	471142 ✓
393602 ✓	471143 ✓
393607 ✓	471144 ✓
393608 ✓	471145 ✓
393609 ✓	469557 ✓
393610 ✓	469558 ✓
438428 ✓	469561
438427 ✓	469562 ✓
438426 ✓	469563 ✓
438430 ✓	469560 ✓
438429 ✓	469559 ✓
438432 ✓	469556 ✓
438431 ✓	471441 ✓
438433 ✓	471442 ✓
438434 ✓	471443 ✓
471136 ✓	471444 ✓
	471445 ✓
	471446 ✓
TOTAL CLAIMS	39

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
Geophysical	
-Electromagnetic	
-Magnetometer	<u>40</u>
-Radiometric	
-Other	
Geological	
Geochemical	

ENTER 40 days (includes line cutting) for first survey.

ENTER 40 days for each additional survey using same grid.

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer 40 Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: May 6, 1978 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications L.D. 2.2306

Previous Surveys	Date	Claim Holder
File No.	Type	

OFFICE USE ONLY

45
claim.

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy - Scale constant _____

Diurnal correction method _____

Base station check-in interval (hours) _____

Base station location and value _____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

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 _____

SELF POTENTIAL

Instrument _____ Range _____
Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____
(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) Airborne Magnetometer - Sensor is toroidal 10% series, none directional

Instrument(s) M-123 Airborne Magnetometer (Barringer Research with sensor and Hewlett-Packard Model 7155) - Continuous Strip Recorder.

Accuracy + 10% of Ambient Field - 1 Gamma 12 Seconds
(specify for each type of survey)

Aircraft used Cessna - 180 CF PKL

Sensor altitude 250'

Navigational and flight path recovery method Gyroscope - Topography Control - Auto Pilot

Light Winds hence excellent control

Aircraft altitude 330' Line Spacing 400'

Miles flown over total area 162 1/2 Miles Over claims only 7 1/2 Miles

94 x 40 = 3760 ÷ 46 = 81 24/46 or 82 see 'yellow' breakdown

2.2731

ONTARIO M.1188

MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

DATE OF ISSUE
JUL 11 1978
SURVEYS AND MAPPING
BRANCH

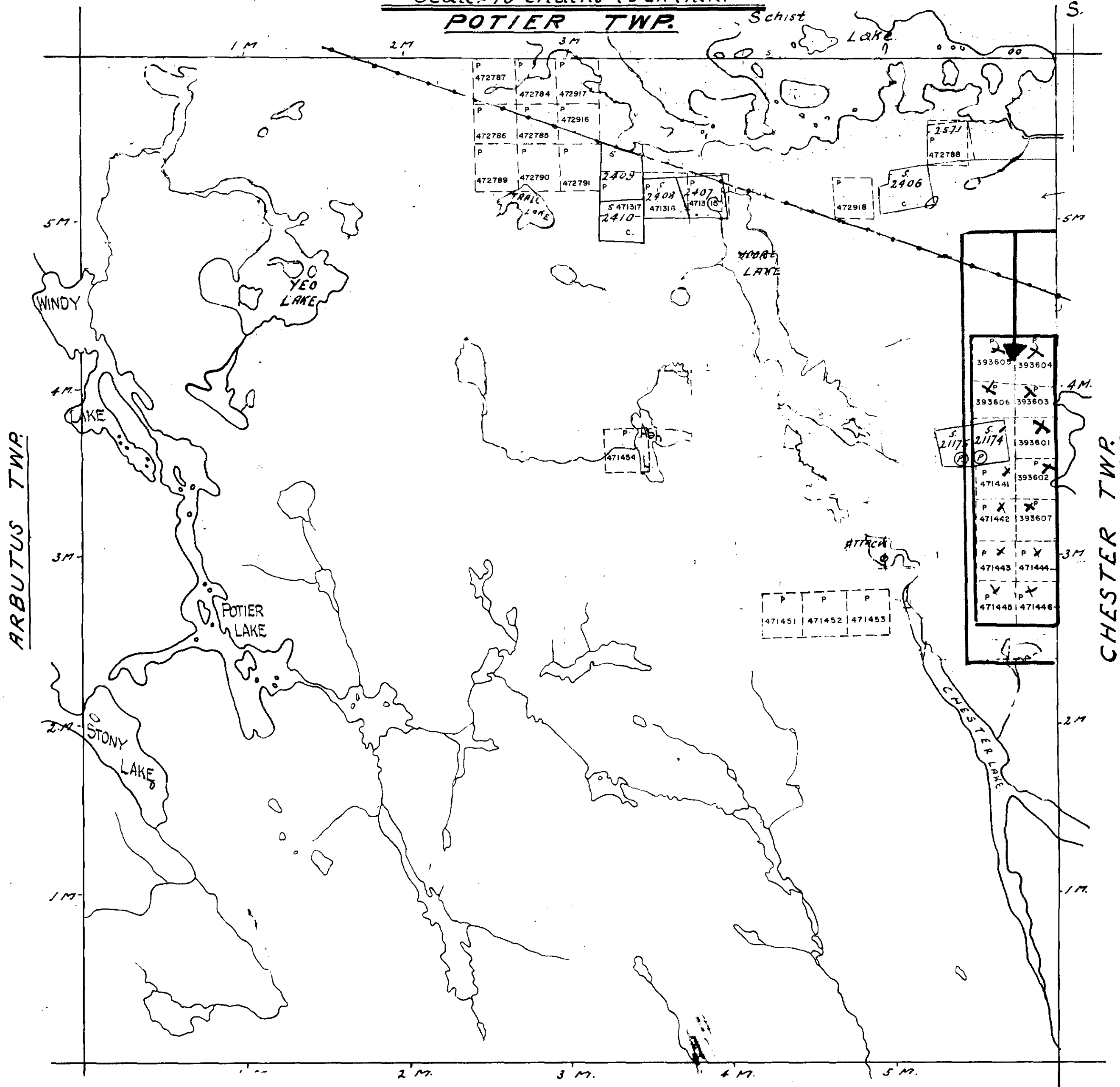
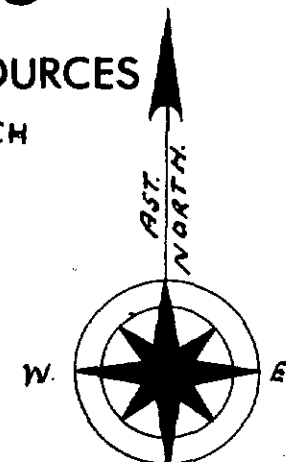
PLAN OF YEO TWP.

PORCUPINE MINING DIVISION.

DISTRICT OF SUDBURY

Scale: 40 chains to an inch.

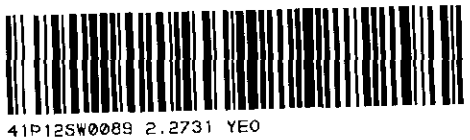
POTIER TWP.



ARBUTUS TWP.

CHESTER TWP.

SMUTS TWP.



41P125W0089 2.2731 YEO

NEVILLE TP. M.888

THE TOWNSHIP OF
2.2731 OF
CHESTER

DISTRICT OF
SUDBURY

PORCUPINE
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND	● or (P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	—
IMPROVED ROADS	—
KING'S HIGHWAYS	—
RAILWAYS	—
POWER LINES	—
MARSH OR MUSKEG	—
MINES	⊗
CANCELLED	C.
PATENTED S.R.O.	●

NOTES

400' Surface Rights Reservation along
all Lakes and Rivers.

Flooding Rights To 1200' Contour Reserved
To H.E.P.C. File: 10621.-L.O.7543(Loc.HY.34)

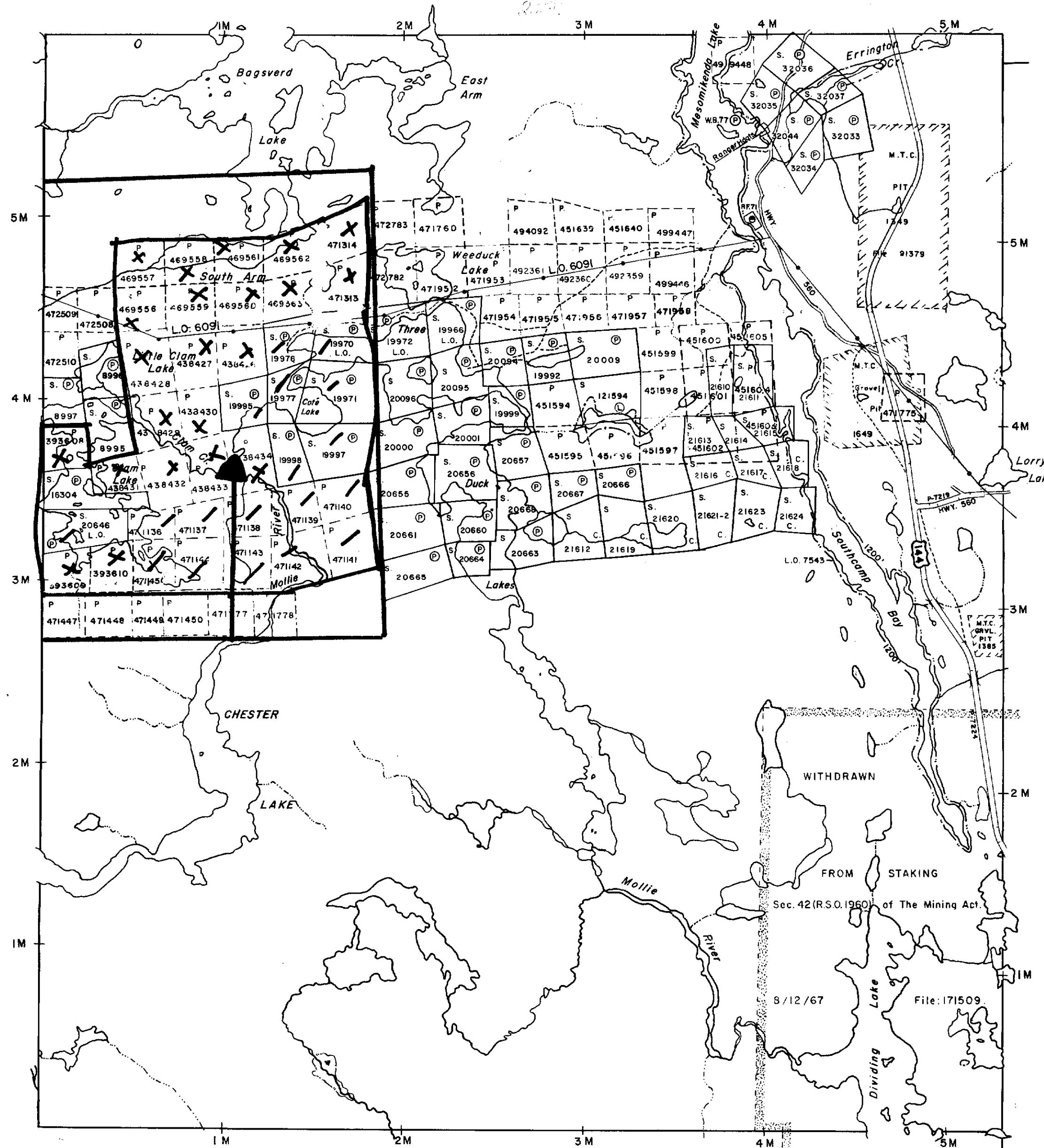
DATE OF ISSUE
JUL 10 1978
SURVEYS AND MAPPING
BRANCH

PLAN NO.-M.717

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

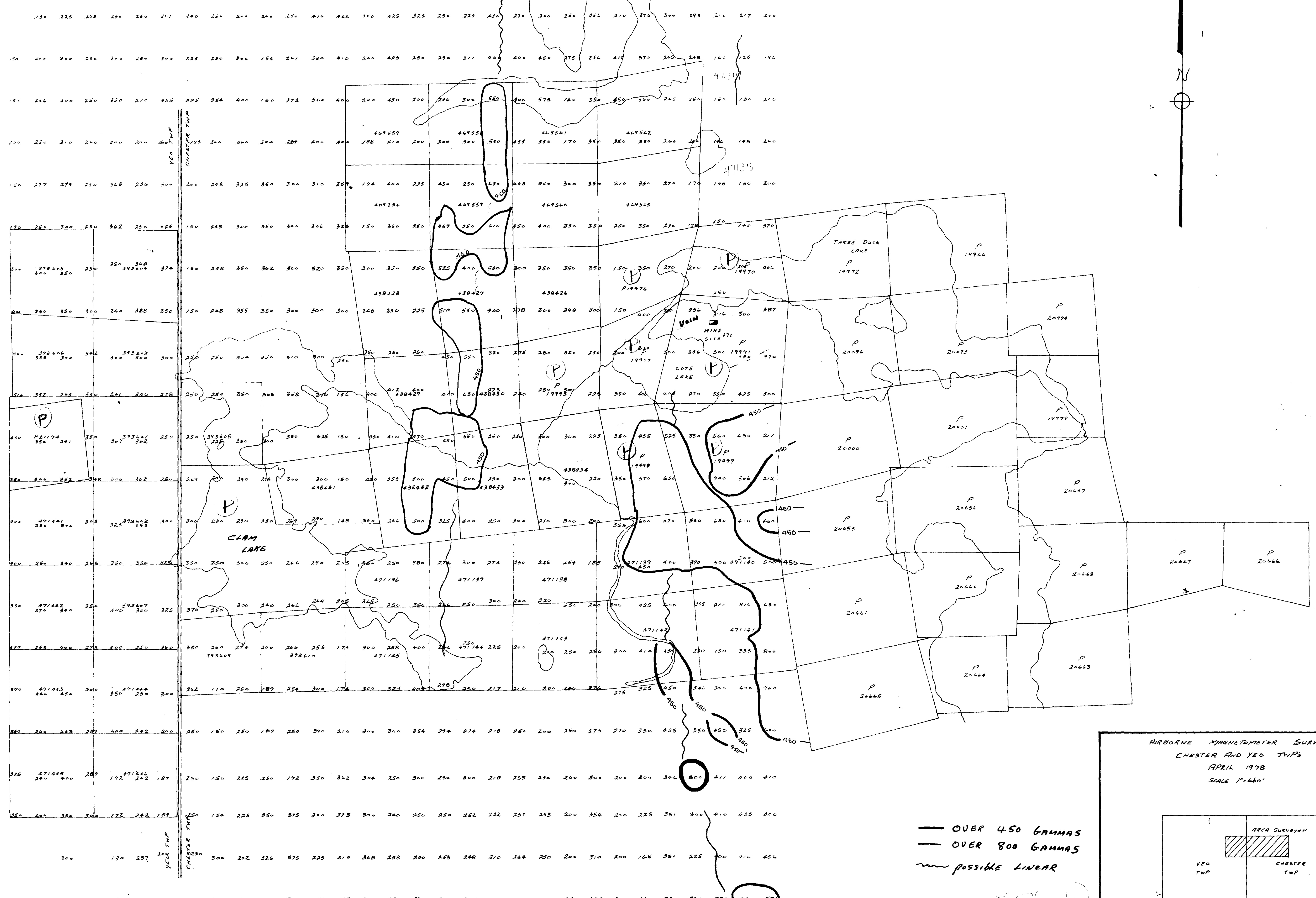
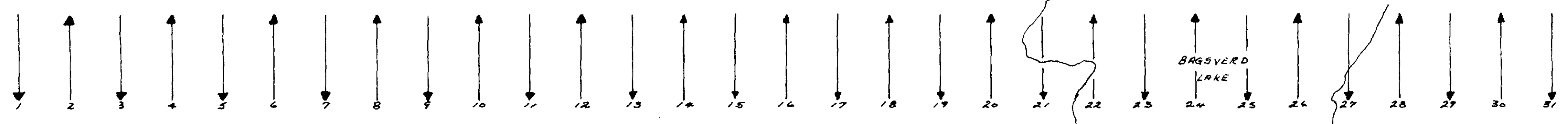
YEO TP. M.1188

BENNEWEISS TP. M.658



INVERGARRY TP. M.948





— OVER 450 GAMMAS
 — OVER 800 GAMMAS
 ~~~~~ POSSIBLE LINEAR

AIRBORNE MAGNETOMETER SURVEY  
 CHESTER AND YEO TOWNSHIPS  
 APRIL 1978  
 SCALE 1"=660'

AREA SURVEYED  
 YEO TWP  
 CHESTER TWP

GOCARR  
 APPROX 12 MILES  
 NORTH EAST

