

2.2850



41114NE0004 0013 CREELMAN

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NOV 10 1978  
LANDS & MINES SECTION

REPORT ON  
ISAAC BURNS EXPLORATION CO.  
ROBERTS AND CREELMAN TOWNSHIPS, ONTARIO  
GROUPS OF CLAIMS  
AIRBORNE MAGNETOMETER SURVEY  
BY  
E. J. BLANCHARD

NOVEMBER 6, 1978

(2)

INTRODUCTION

An airborne magnetometer survey was flown over the properties of Ike Burns Exploration Co. on September 22 and 23, 1978.

The present report covers the data and results of this survey.

(3)

PROPERTY

The property is located on the East 1/2 of Roberts Township and the West boundary of Creelman Township, or approximately eighteen miles North of Capreol. Claim numbers covered and area flown is outlined on the attached maps.

The claims flown have been previously tested at intervals for uranium. This testing consisted of both Radiometric, Geological and Diamond Drilling.

(4)

GEOLOGY

The northern half of Roberts Township is mainly quartzite of the Mississauga Series while the South west 1/2 is Granite and Gniesses.

More accurate references to the Geology can be obtained from O.D.M. Map 2212.

INSTRUMENTS USED

Airborne Magnetometer M-123 Barringer Research. Sensor is Toroidal - 104 Series, non directional, noise cancelling Hewett-Packard model 7155, continuous strip recorder. A Cessna 180 CF PKL was used for the survey.

(5)

THE SURVEY

The survey consisted of lines north to south and south to north. The flight lines were spaced at 330' intervals to try and locate any isolated sulphides that may be part of the matrix of the Radioactive Conglomerates. Sensor altitude was 250'. A total of 220 miles were flown over the properties. Control of direction was by Auto Pilot-Gyro Compass and excellent geographical control point readings were recorded every 12 seconds with an accuracy of  $\pm 10\%$  of the ambient field.

When the survey was first requested, forty six more claims were in the group, however, since they have lapsed, only the claims currently in good standing are indicated on the maps.

(6)

RESULTS OF SURVEY

Based on a study of the geological mapping and drilling for uranium in Roberts and Creelman Townships, the best results of the airborne survey may be of a structural nature.

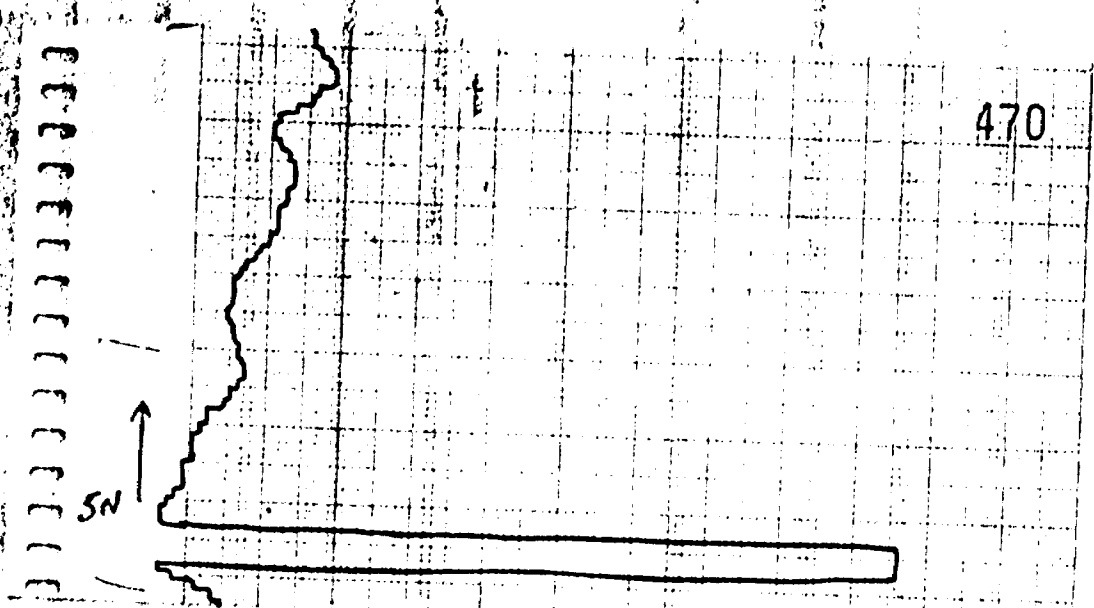
The basement rocks (Granite and Granite Gneisses) have a lower magnetic profile in this area than the sediments. An example of this is lines 1, 2, 3, 4, and 5 in Roberts Township where the outcrop is predominantly granite.

Lower readings in the balance of the surveyed area may indicate the overlying quartzite to be shallow. The very low readings, classed as magnetic lows, may indicate a structural uplift in the basement rocks creating a structural dam. Any of these structures could provide a potential trap for uranium concentration. Future drilling could be directed toward a shoulder between the strongest magnetics and the magnetic lows. Readings of 1000 or over may indicate a concentration of sulphides in the quartzites.

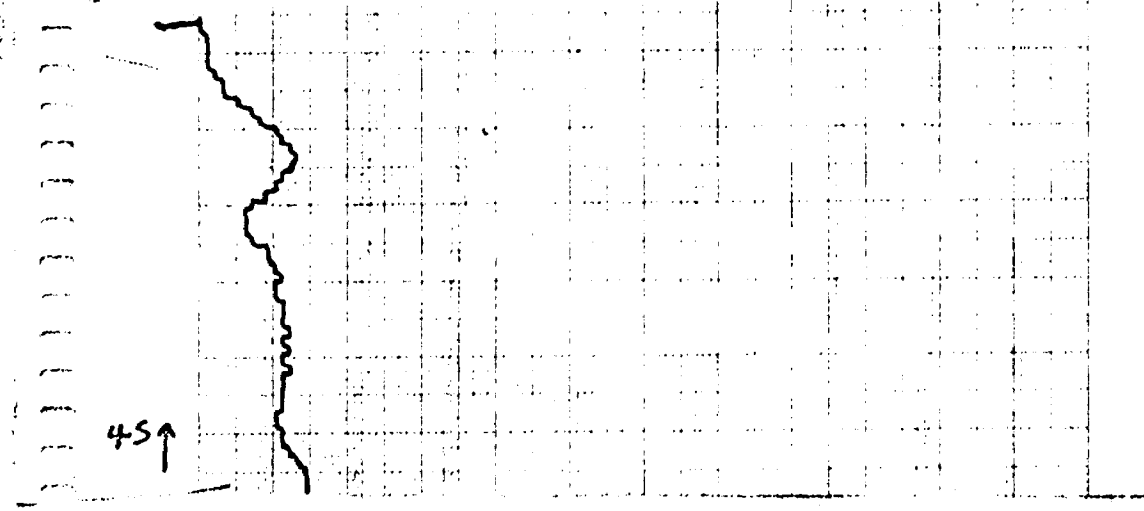
In some cases the magnetic anomalies corresponded well with the radiometrics, proving that some close ground magnetometer work may be a useful aid in the future planning of more drill targets.

*E. J. Blanchard*  
E. J. BLANCHARD

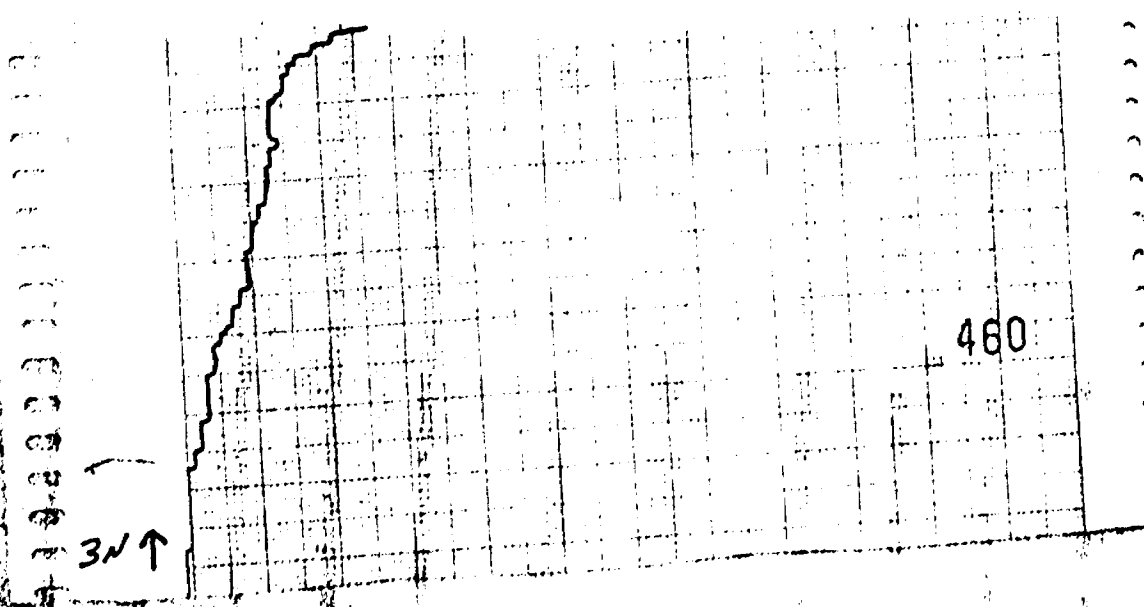




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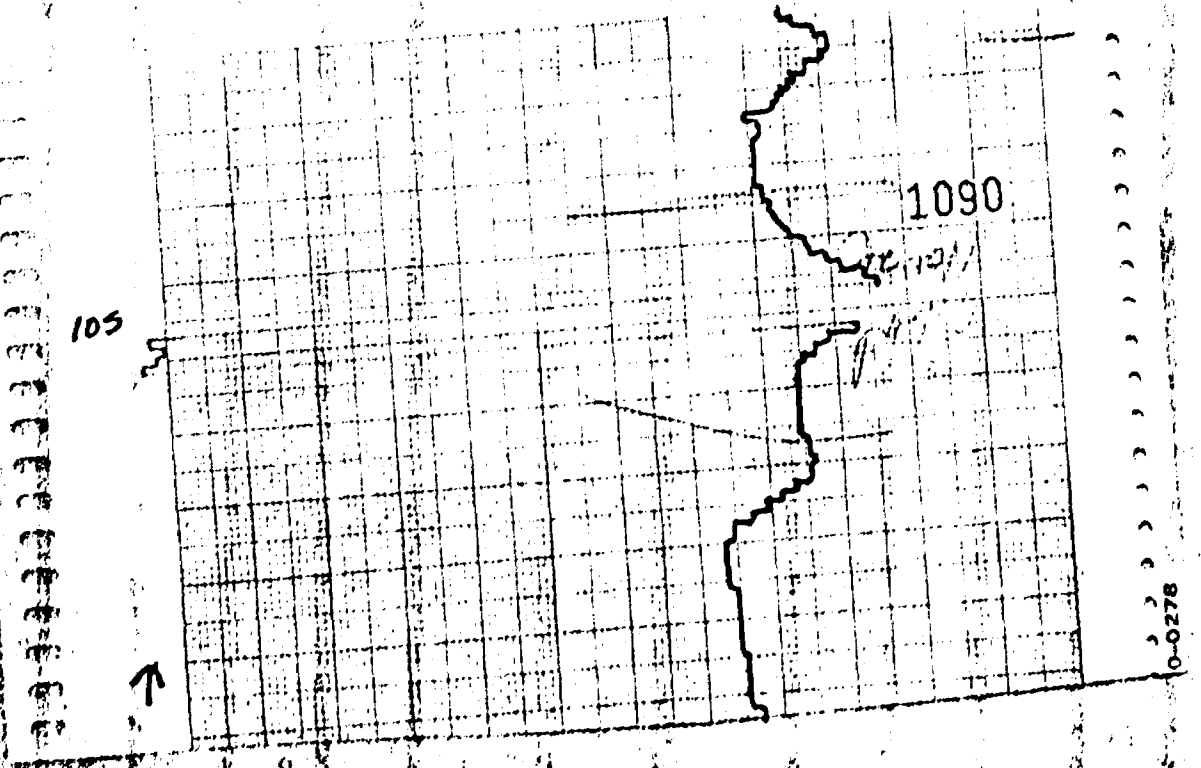
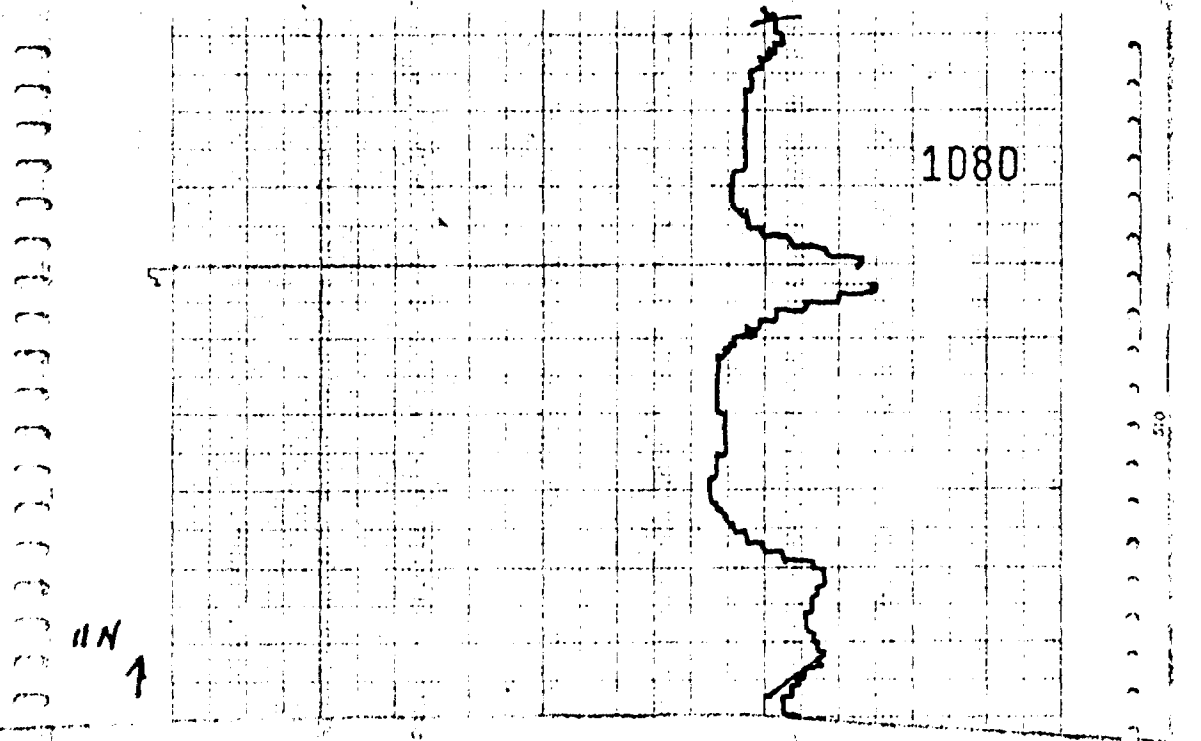
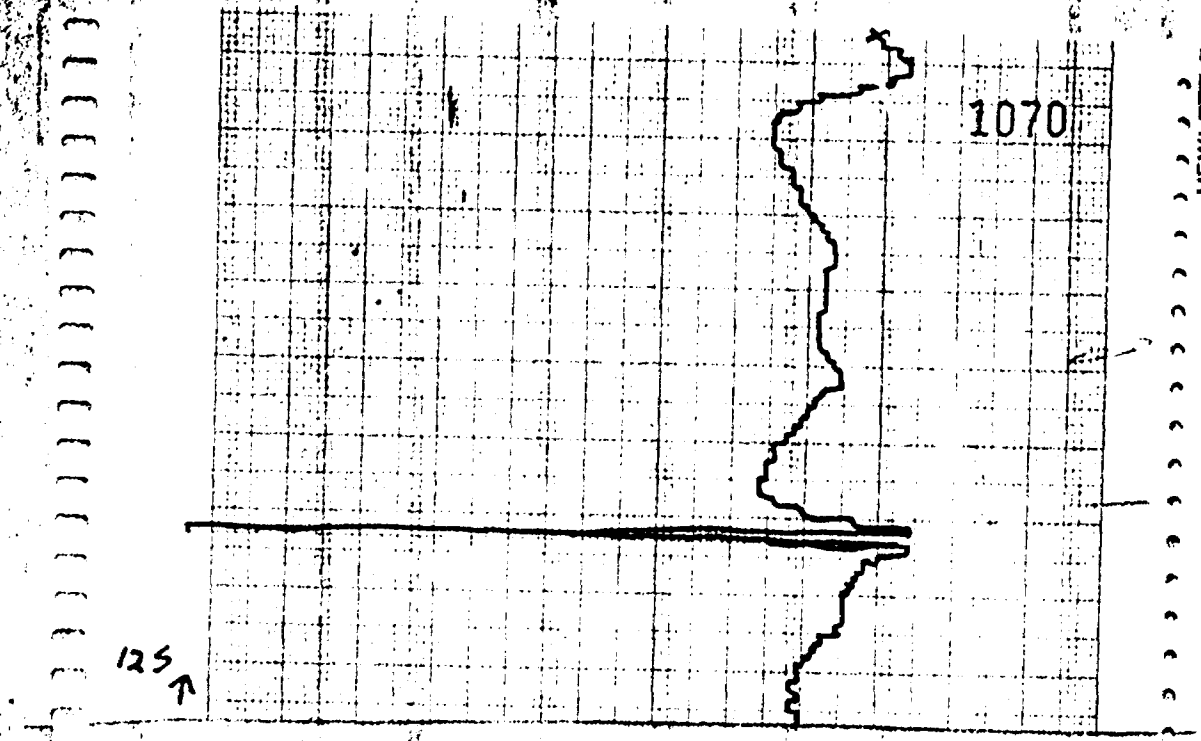
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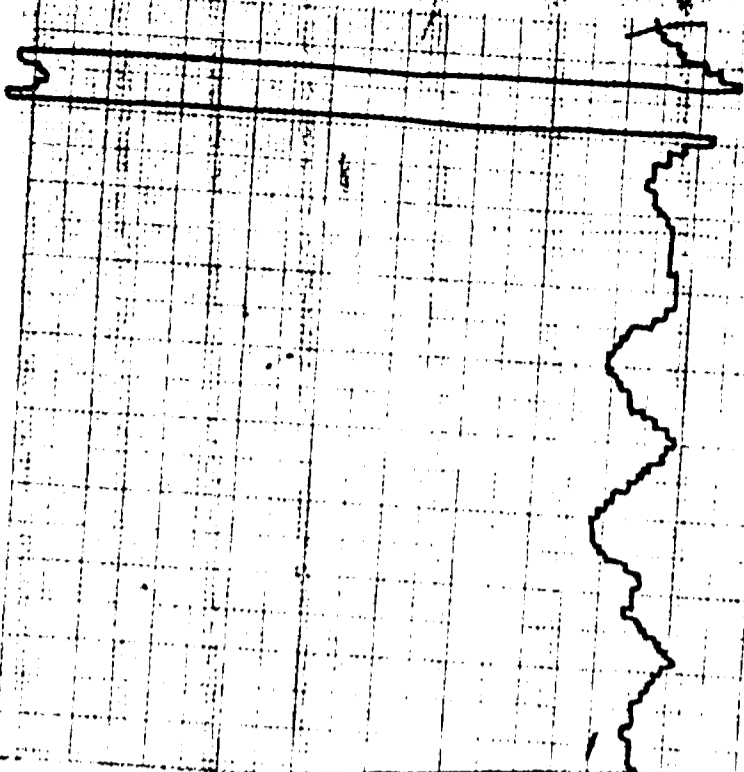
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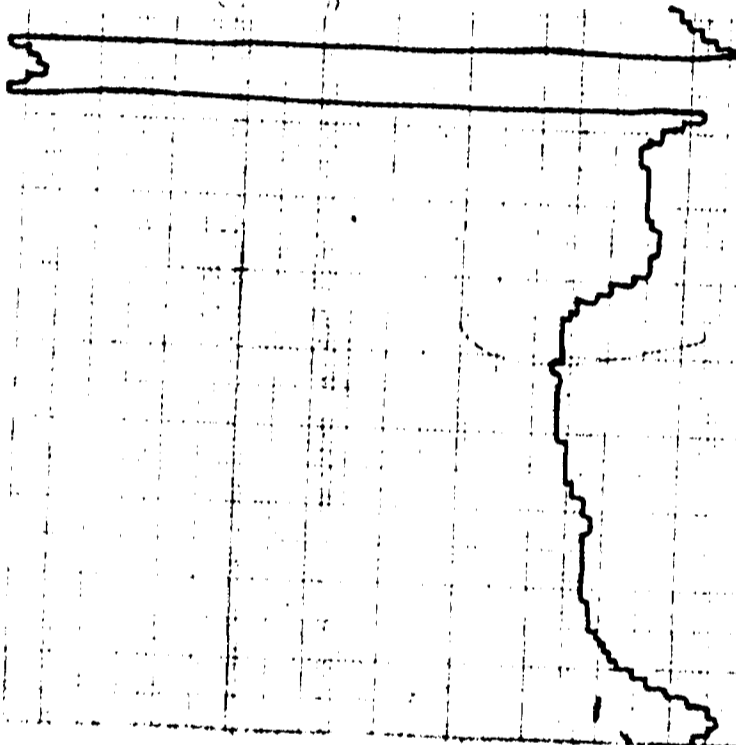


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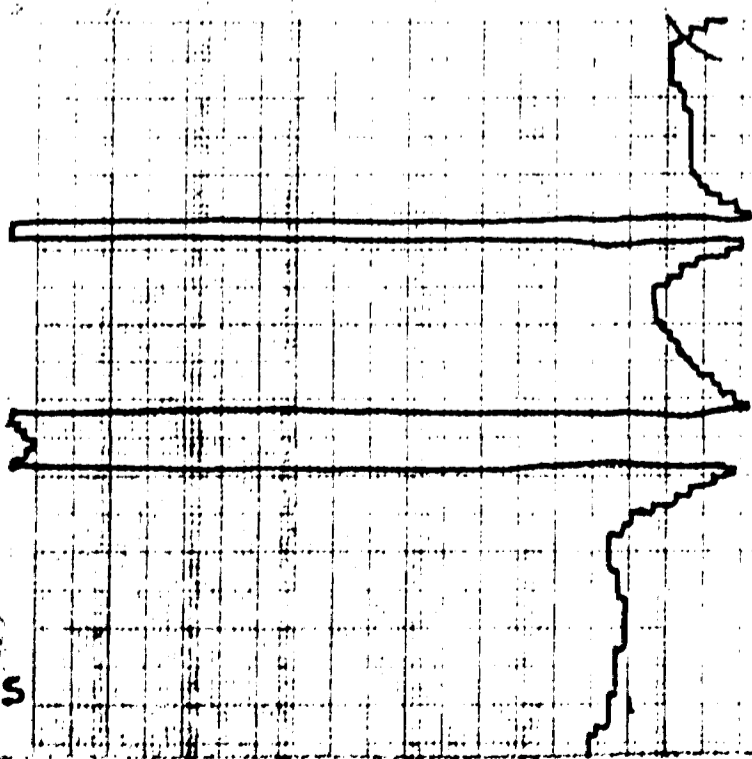


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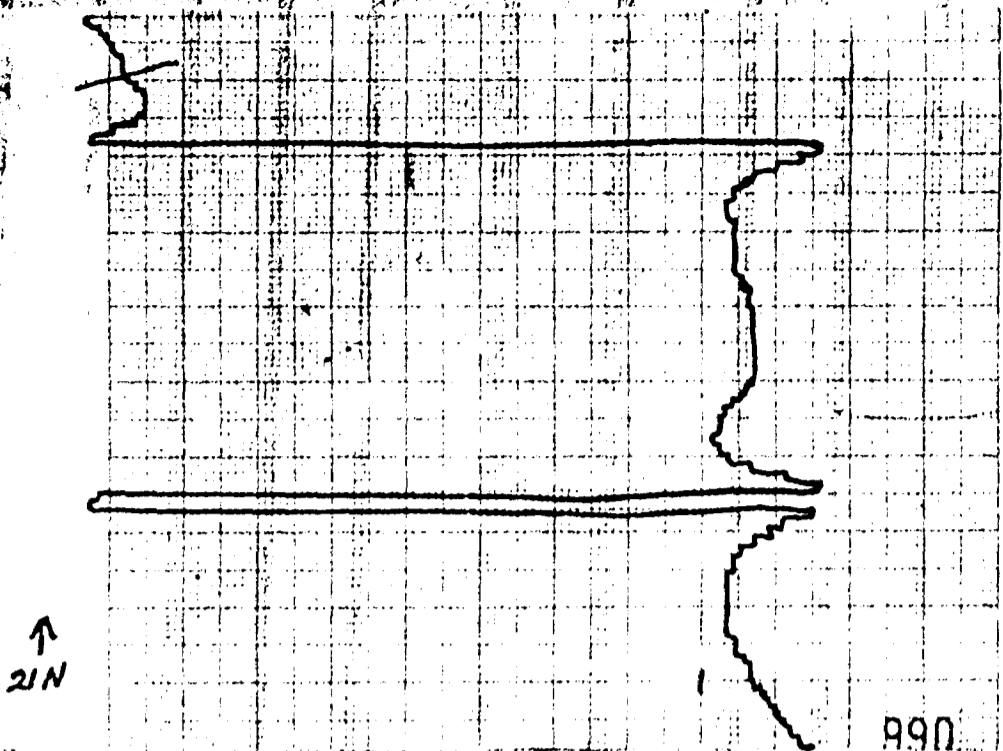


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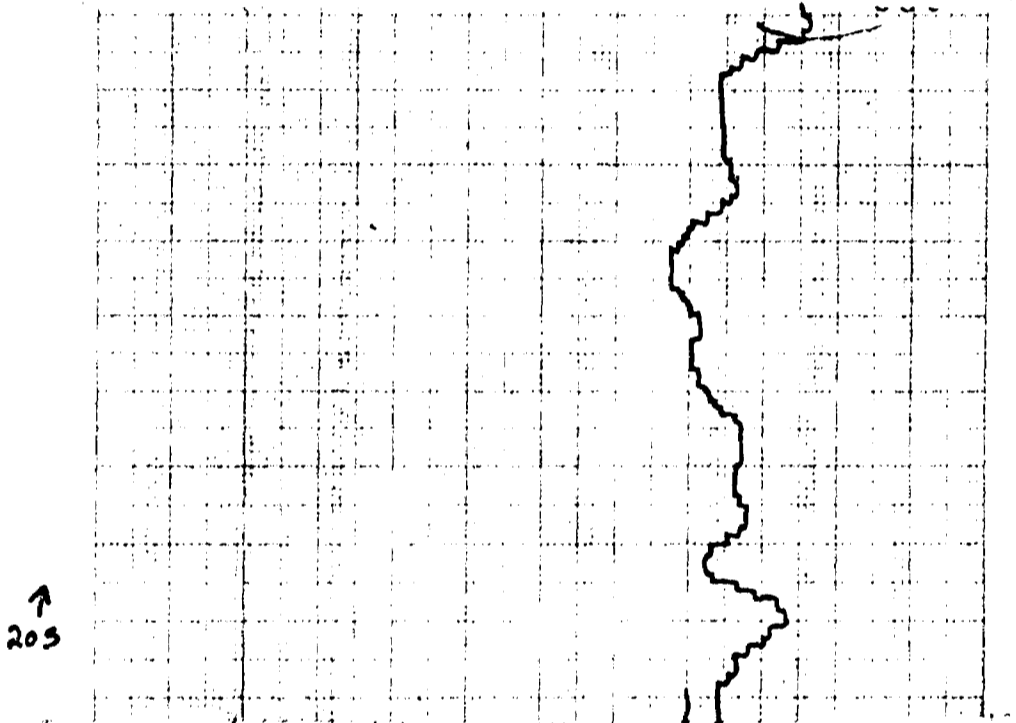
Creechman Township

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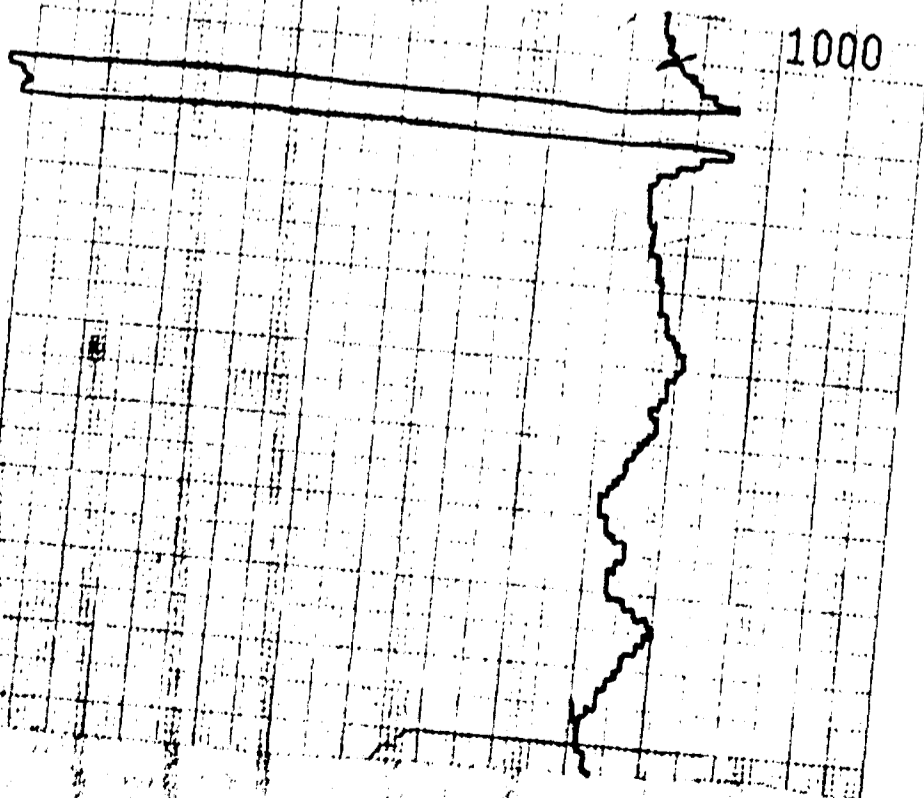


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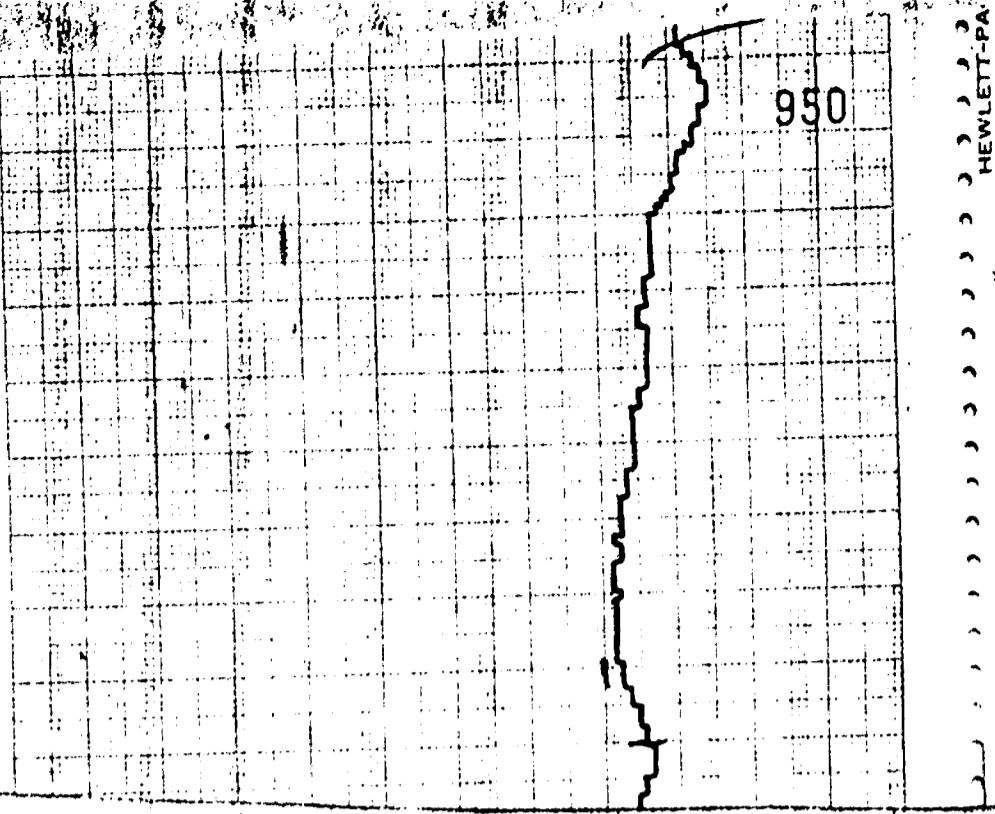
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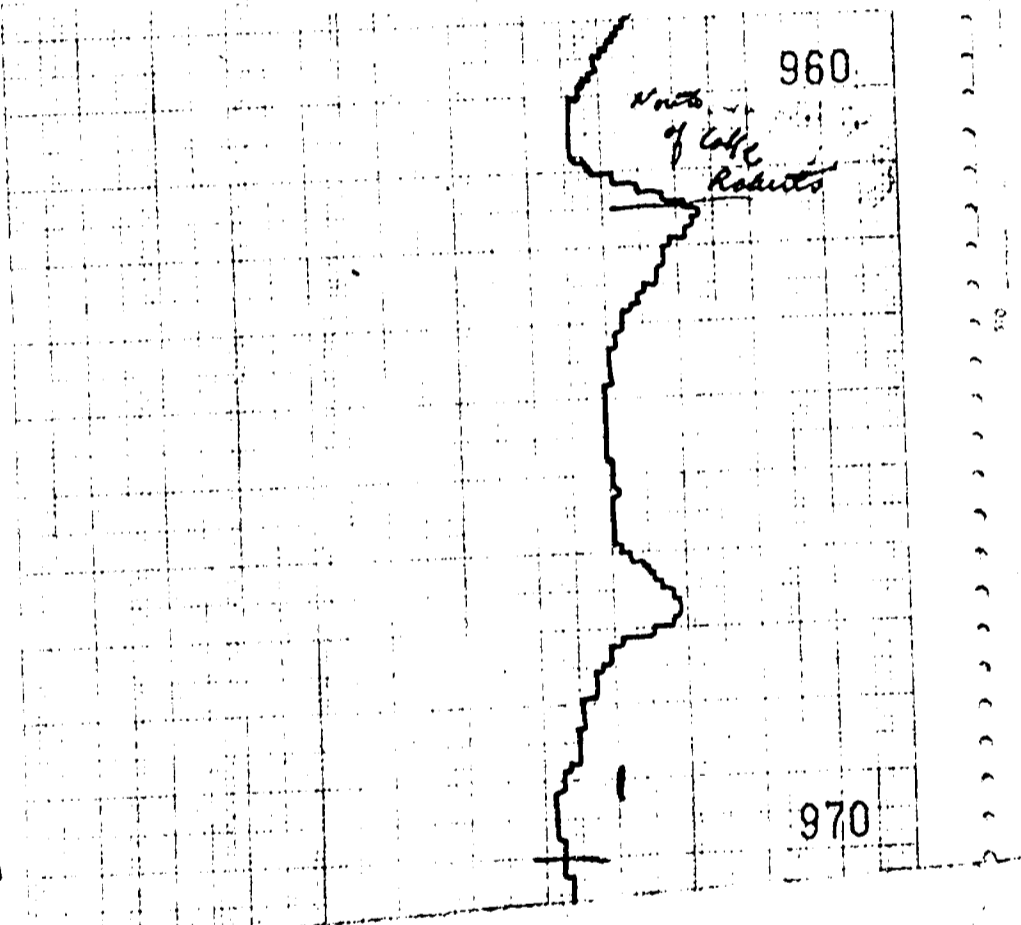
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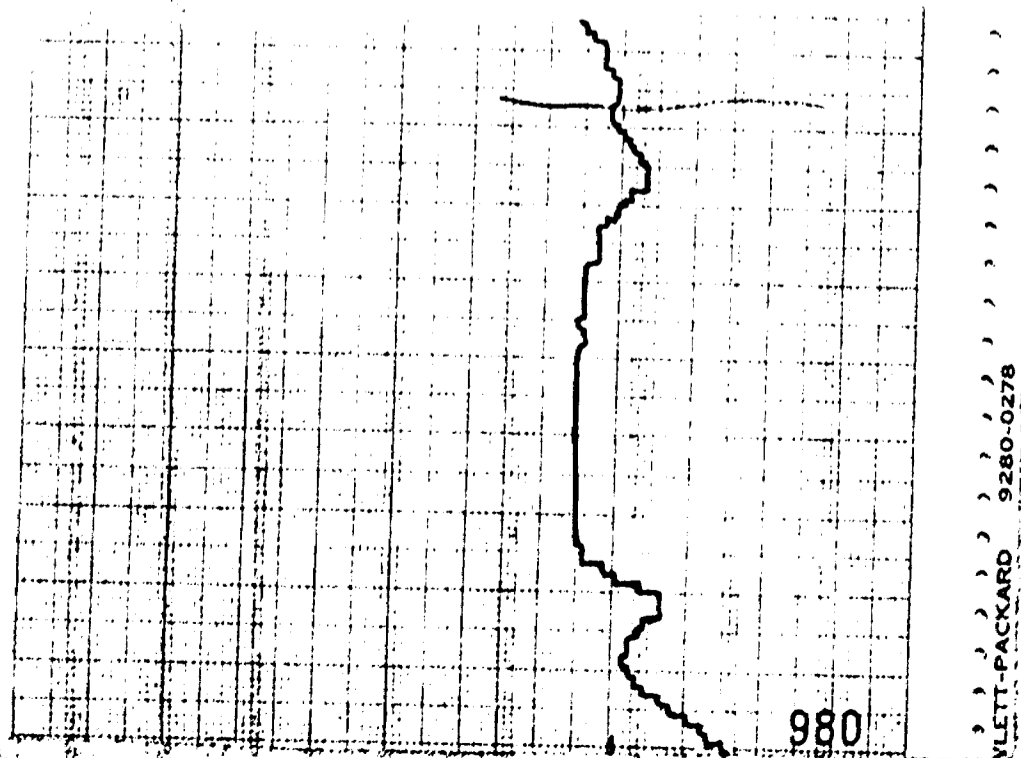
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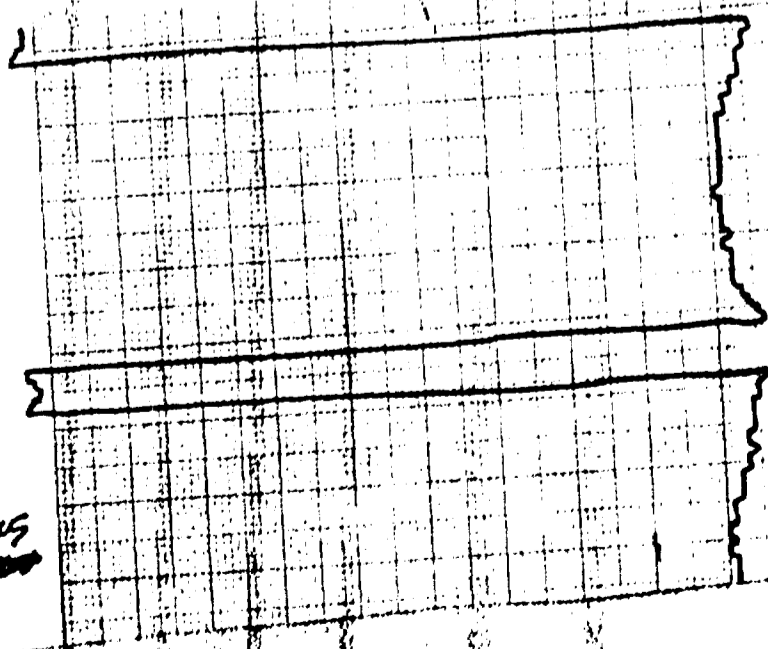
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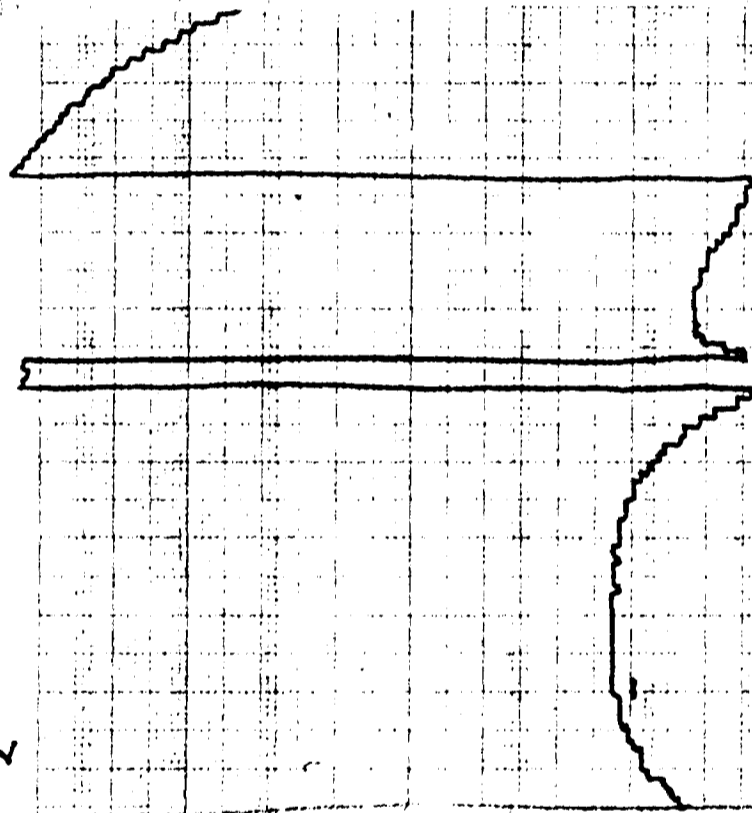
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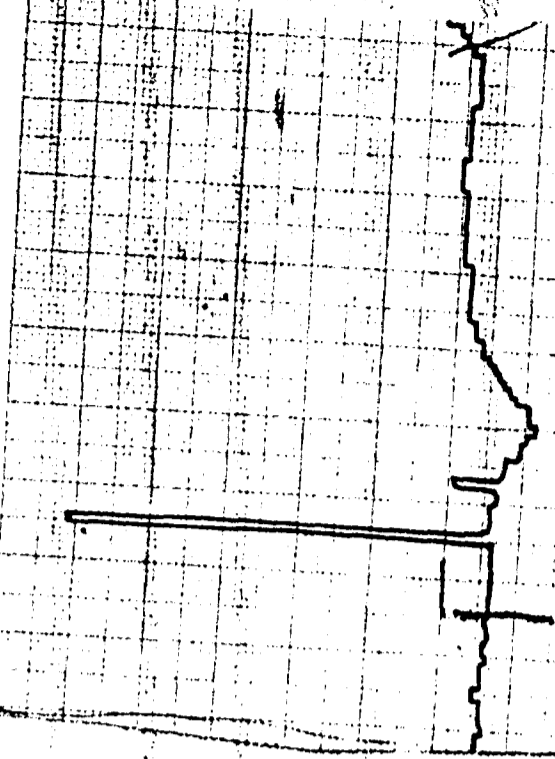
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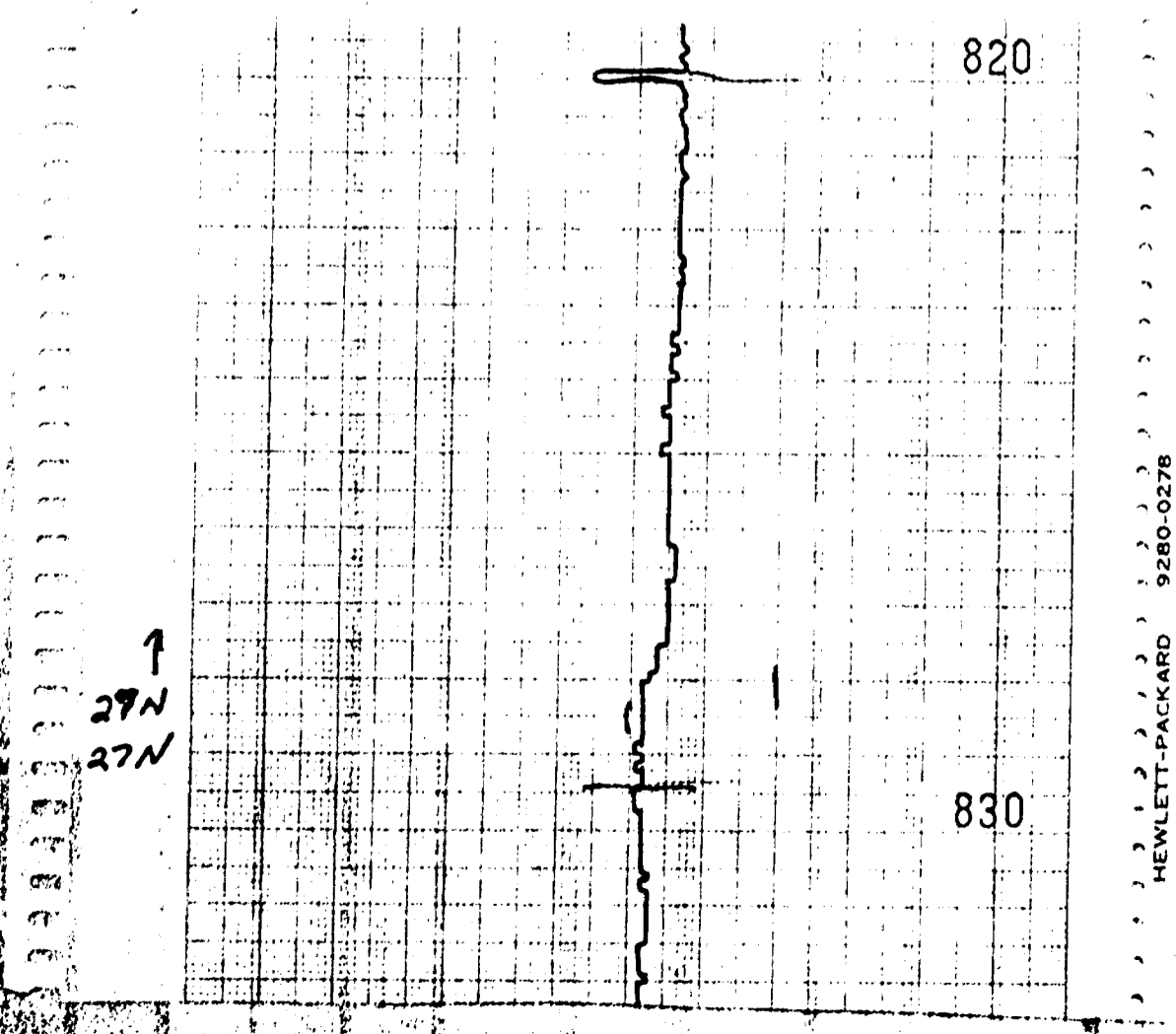
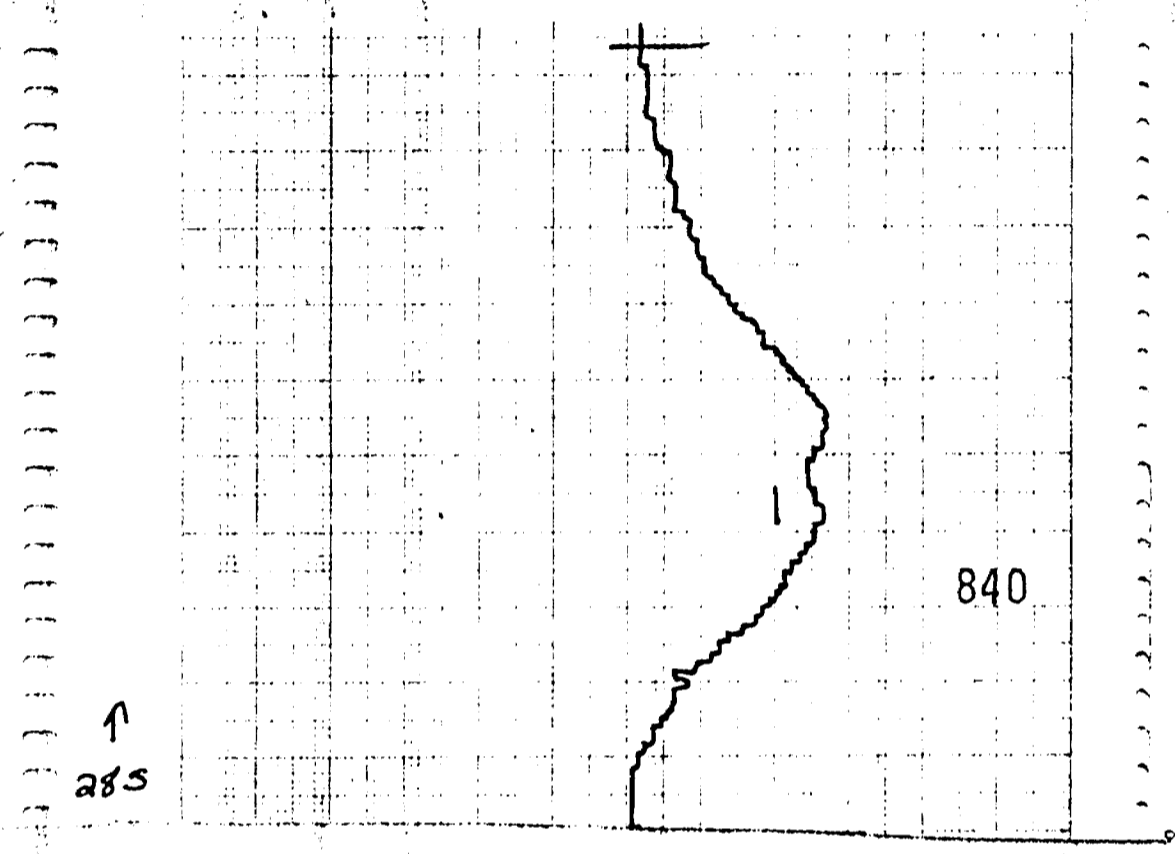
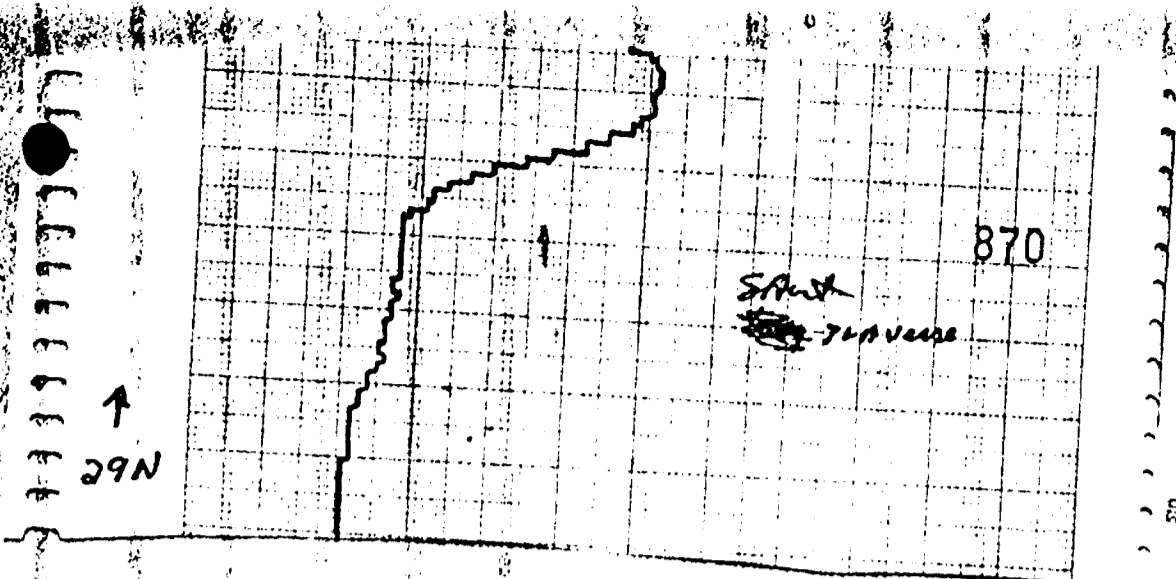
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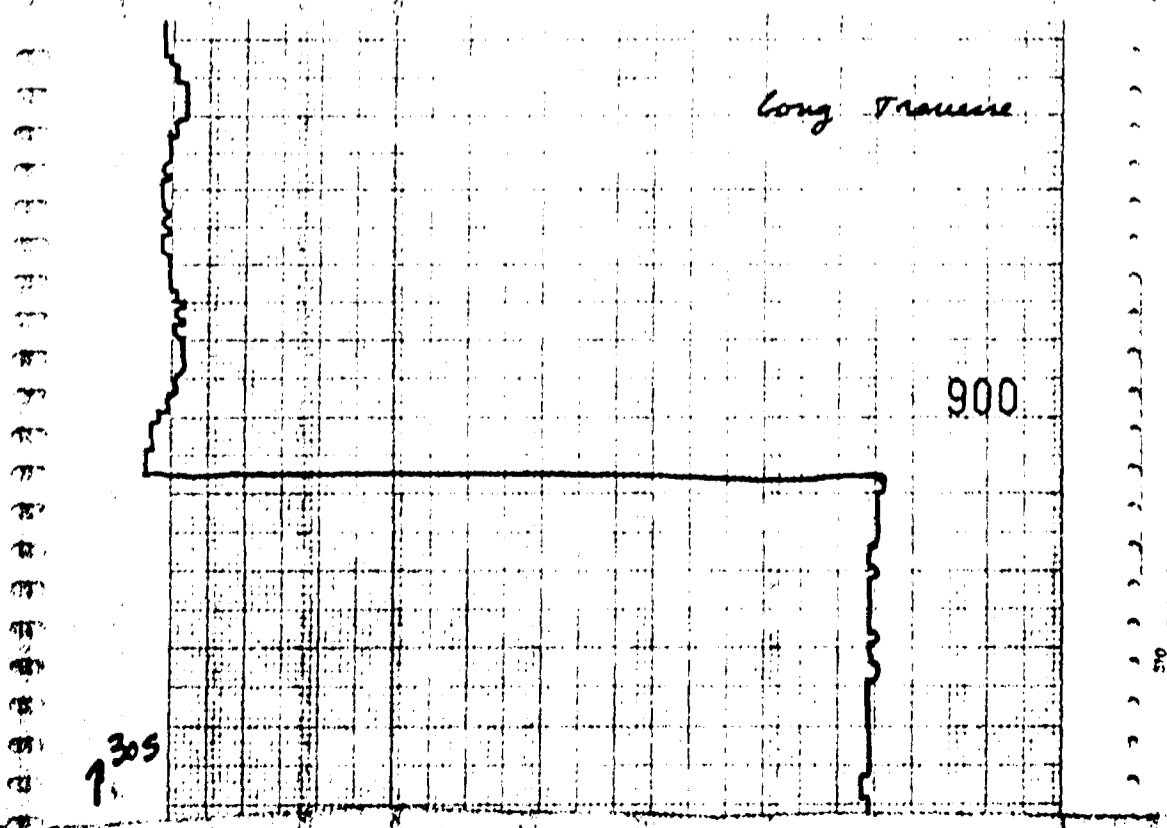
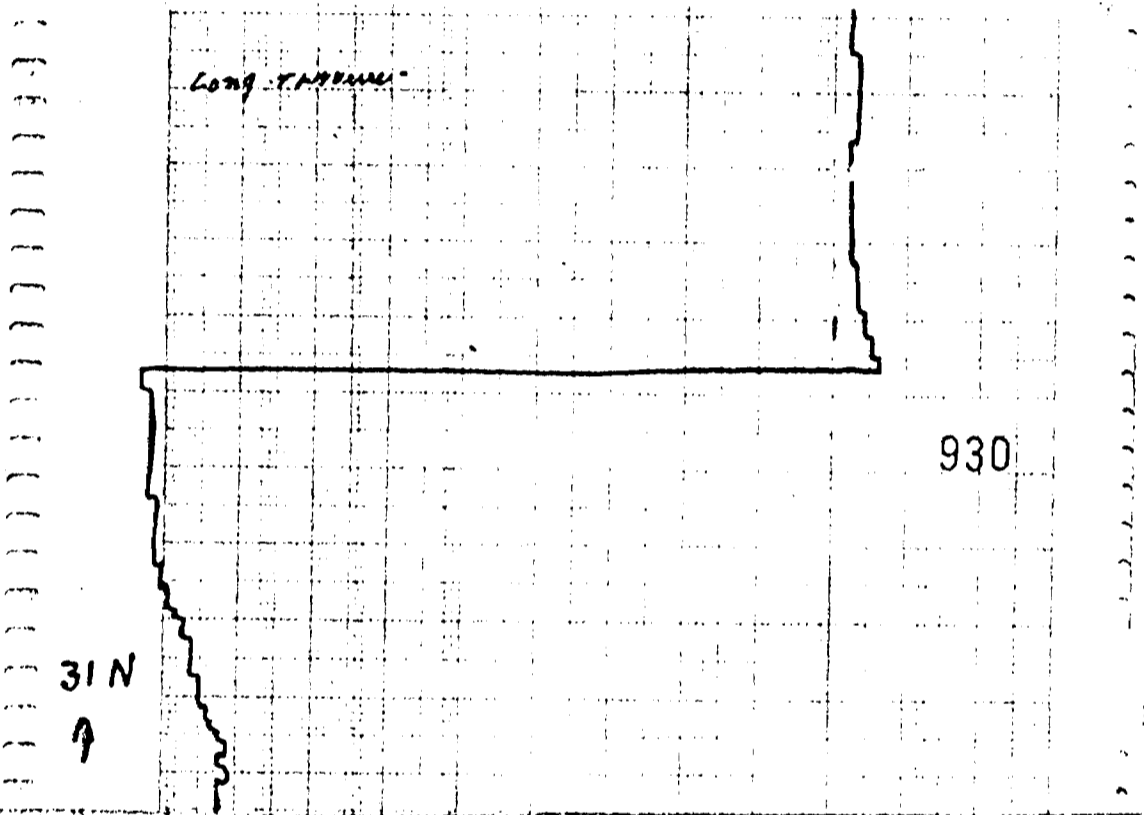
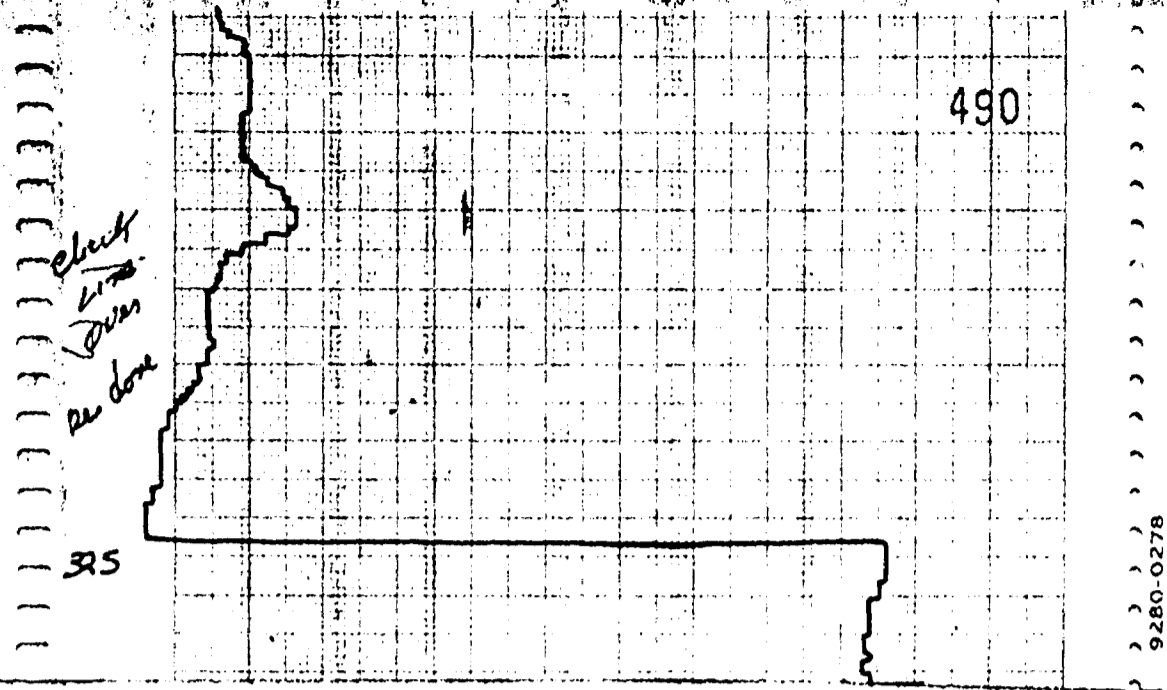
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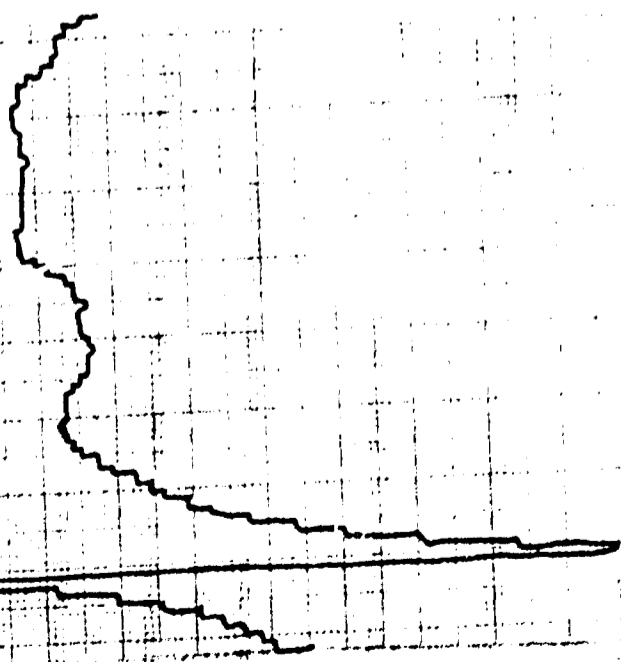
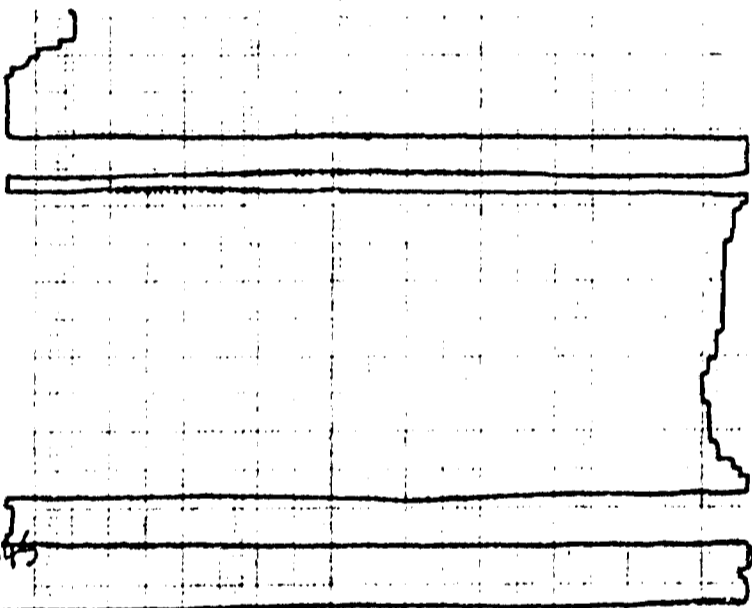
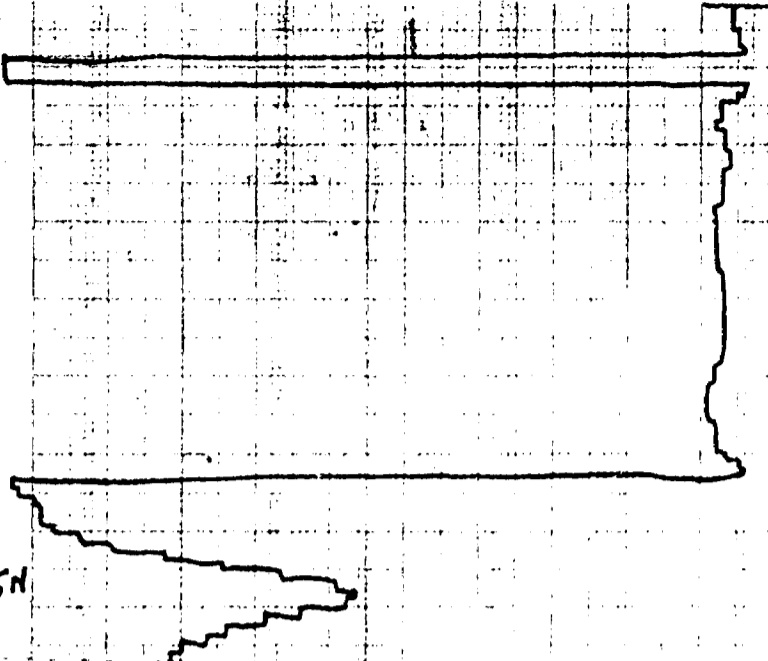


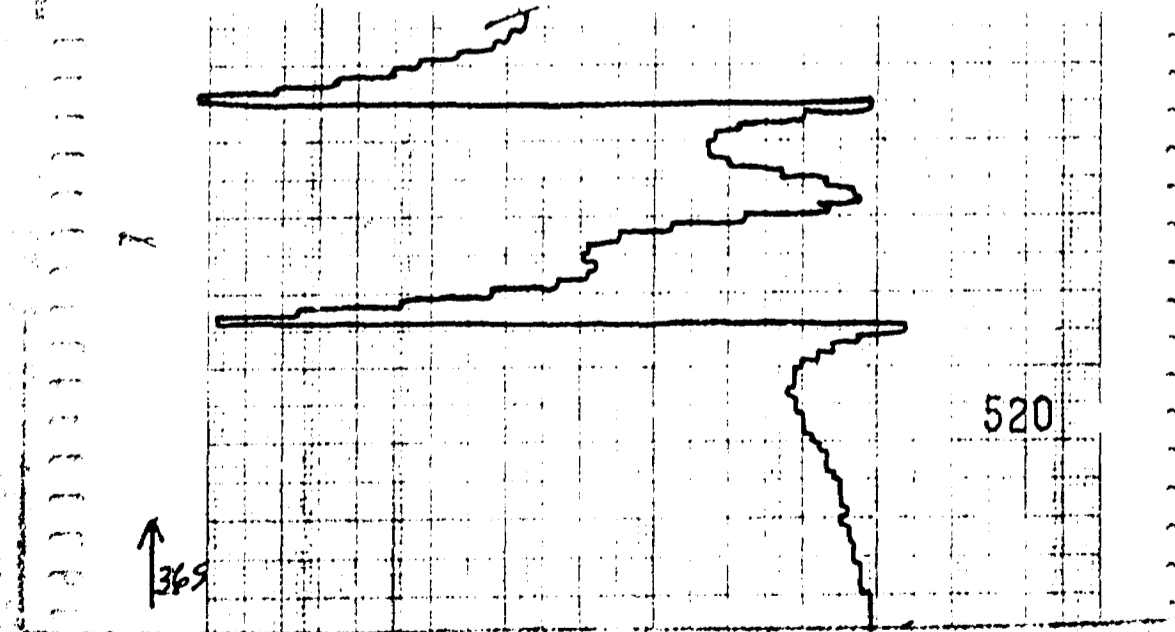
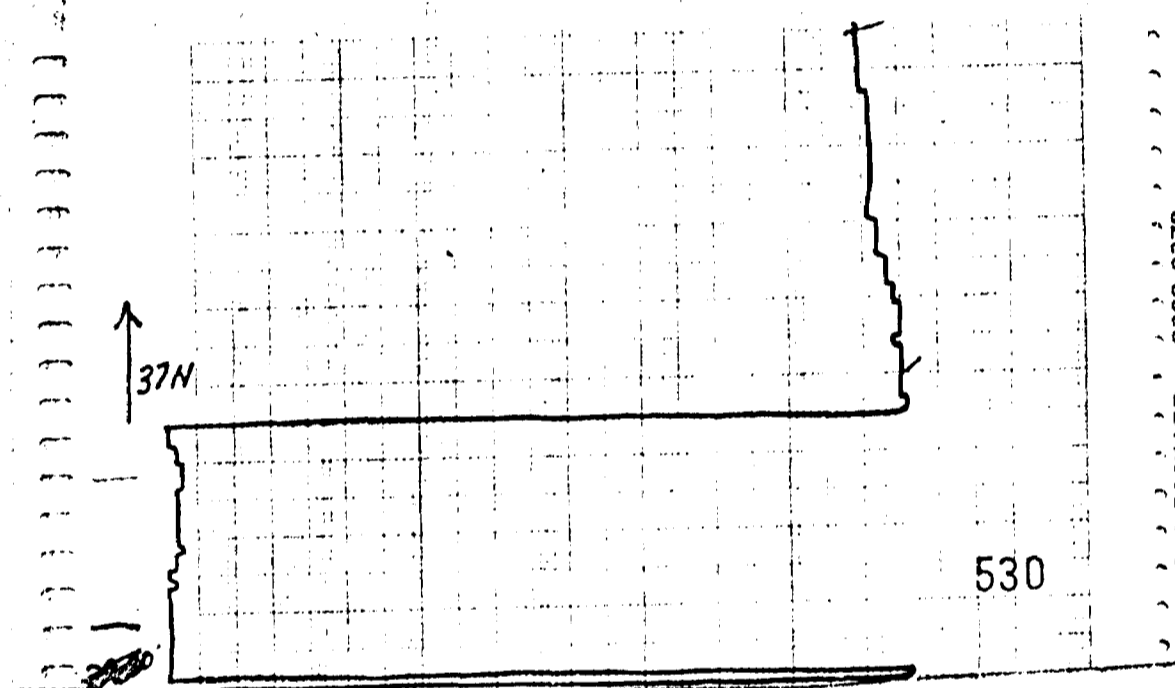
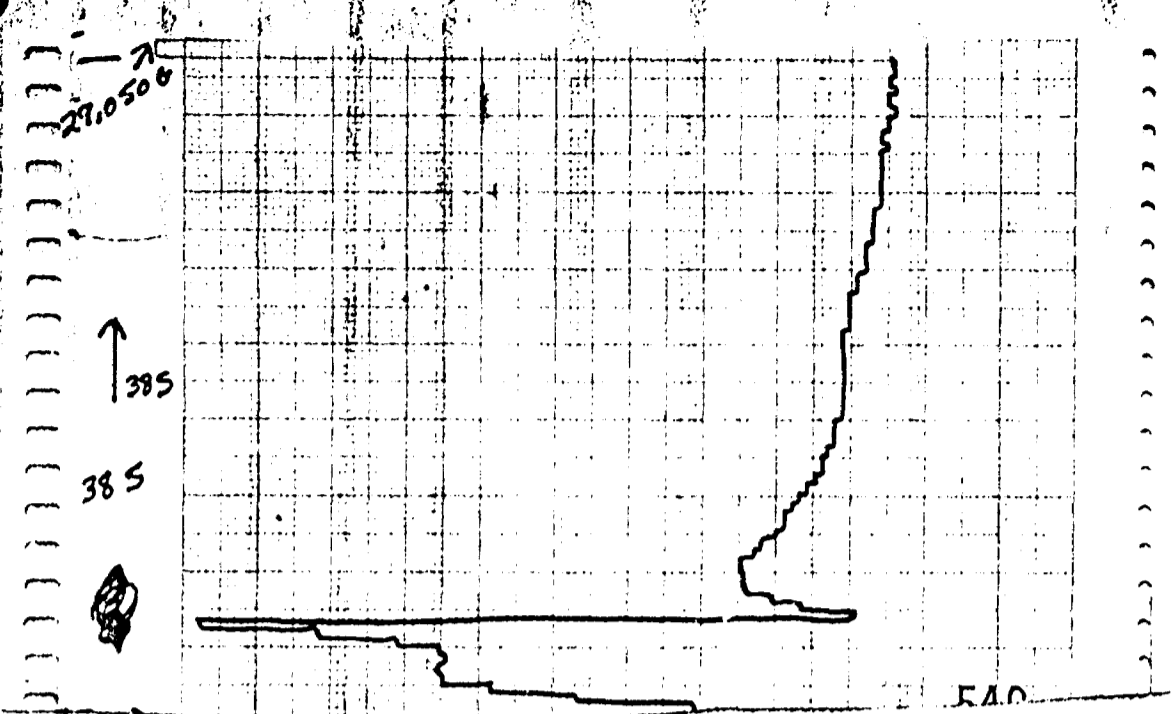


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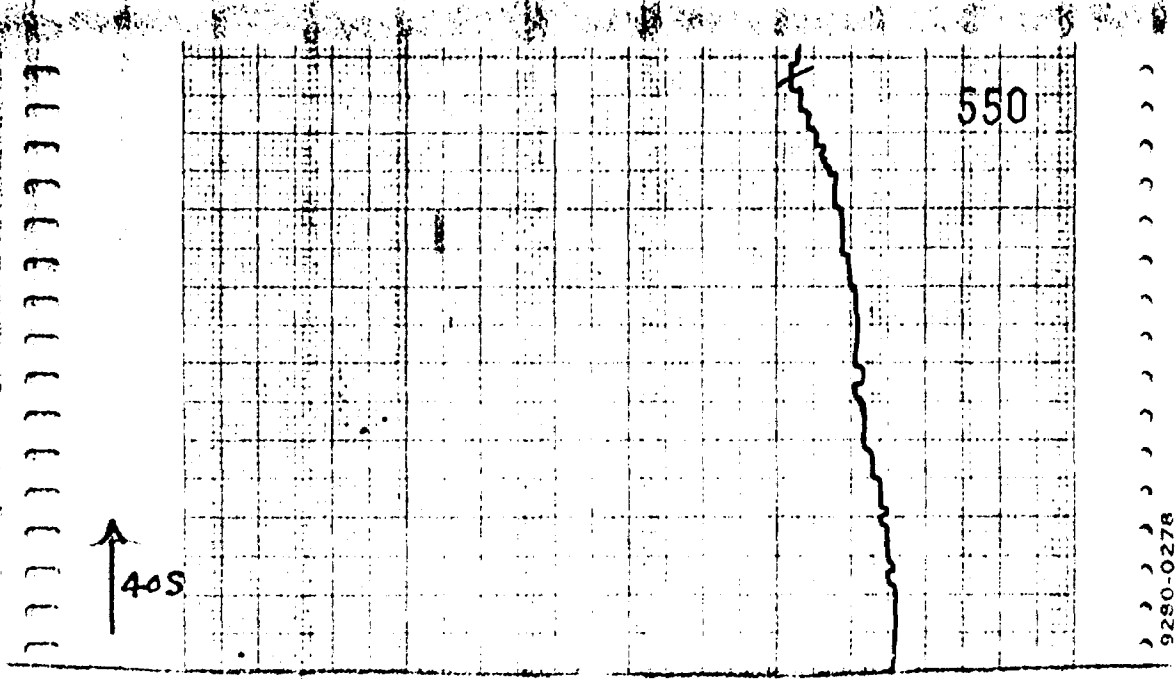




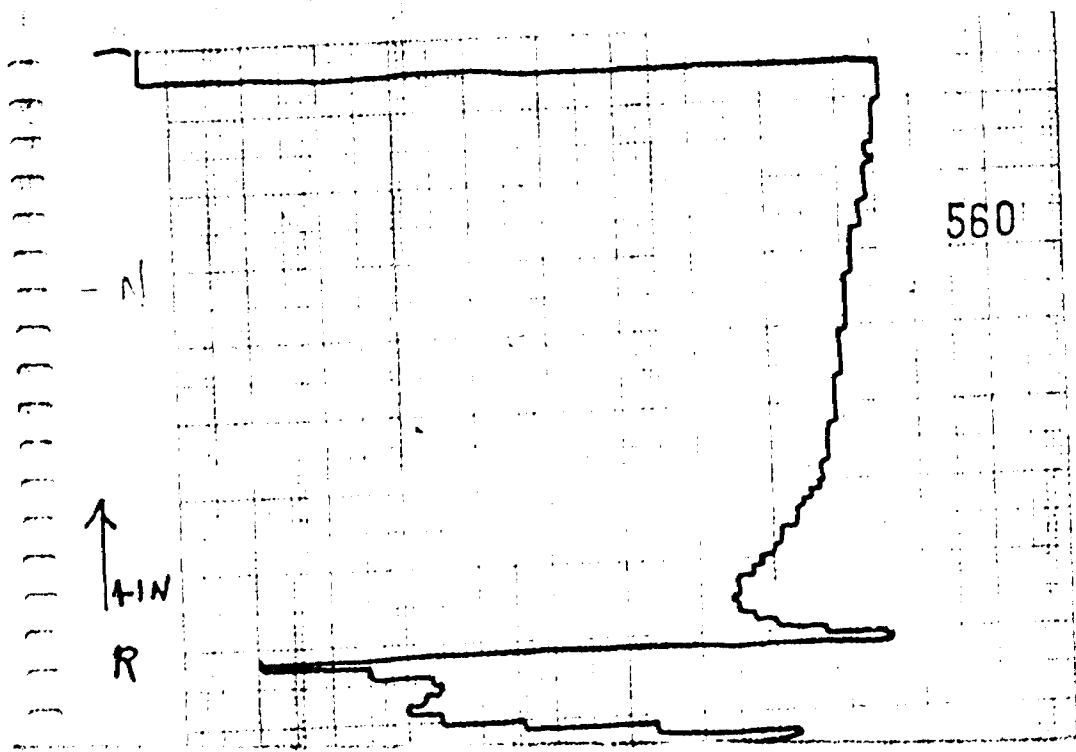




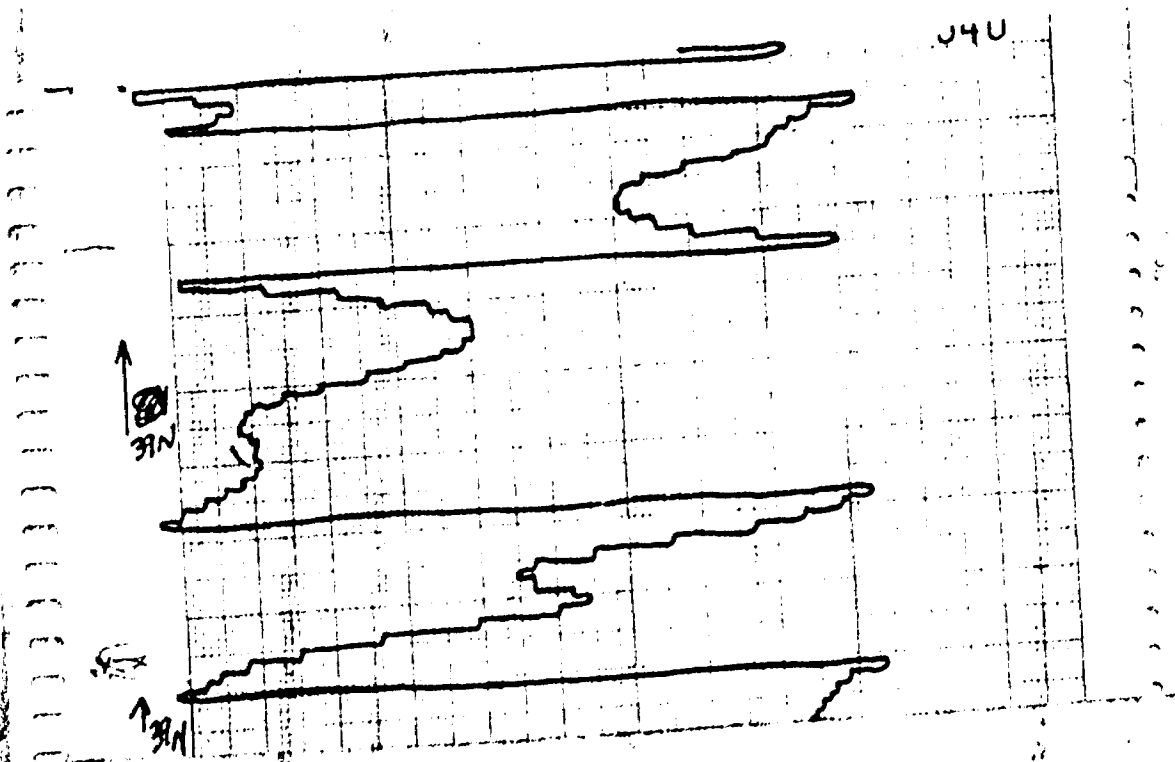
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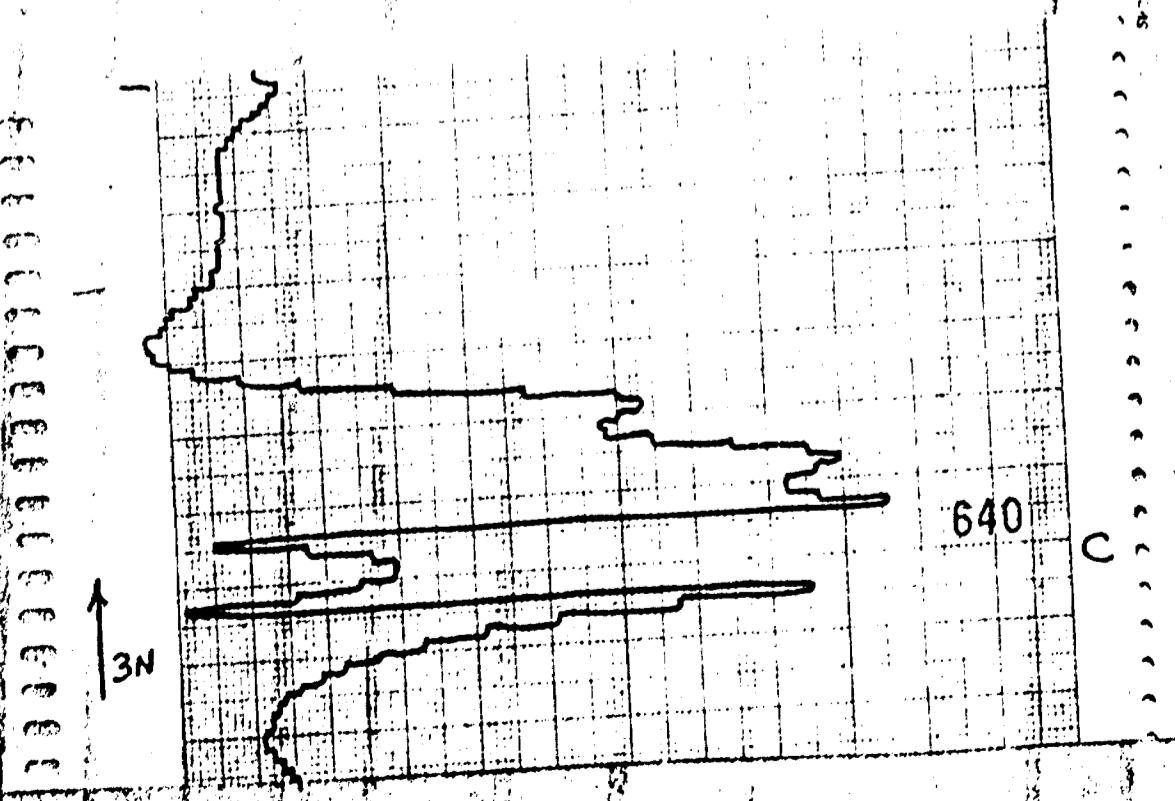
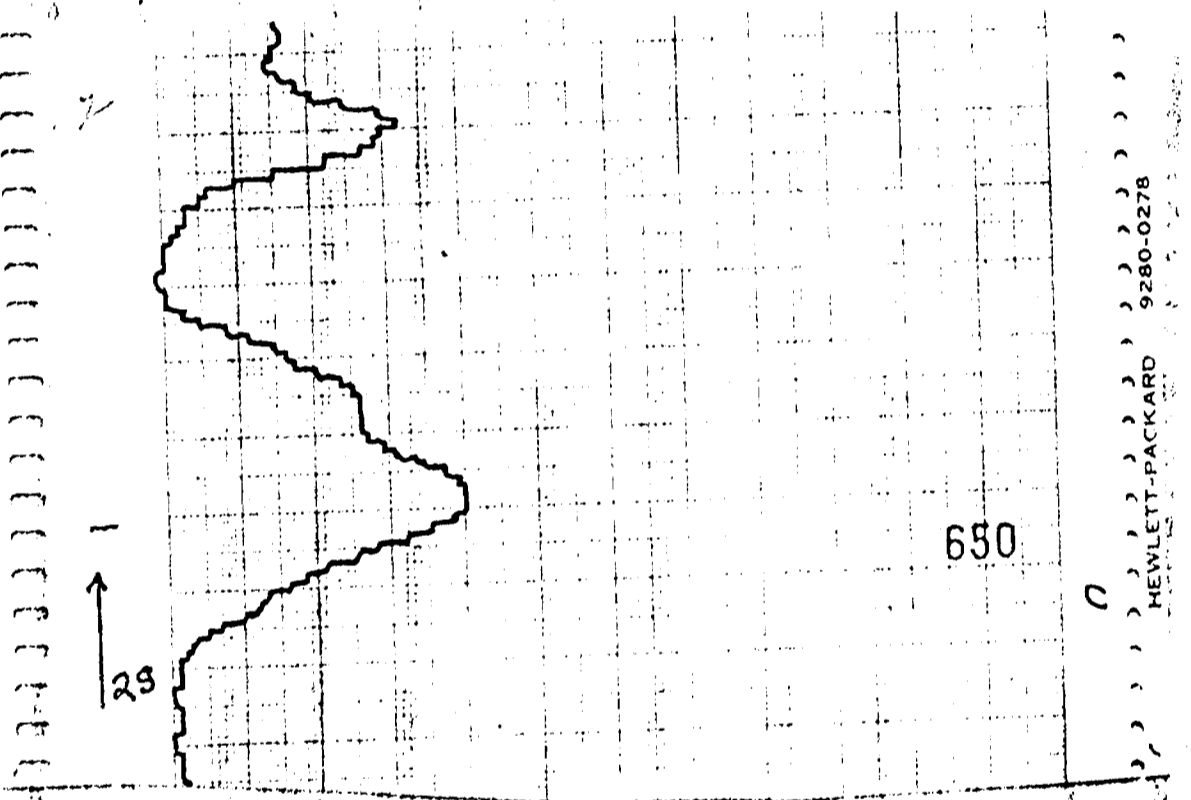
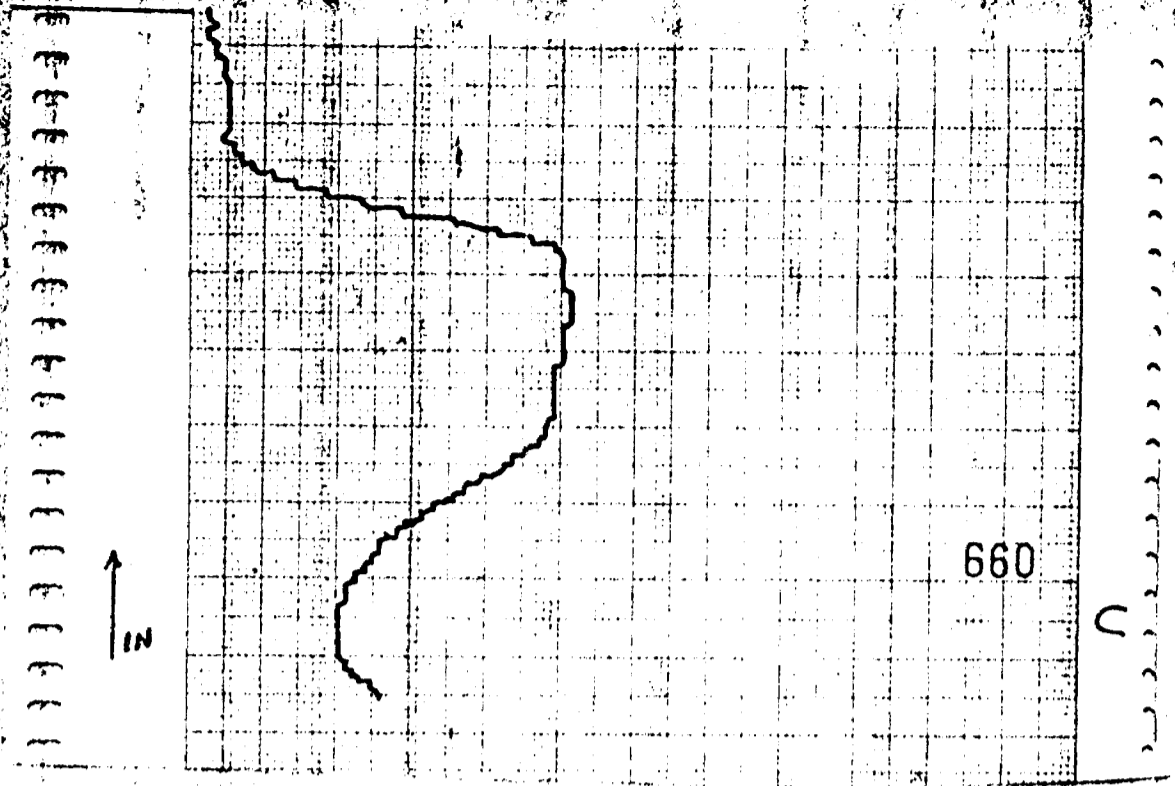


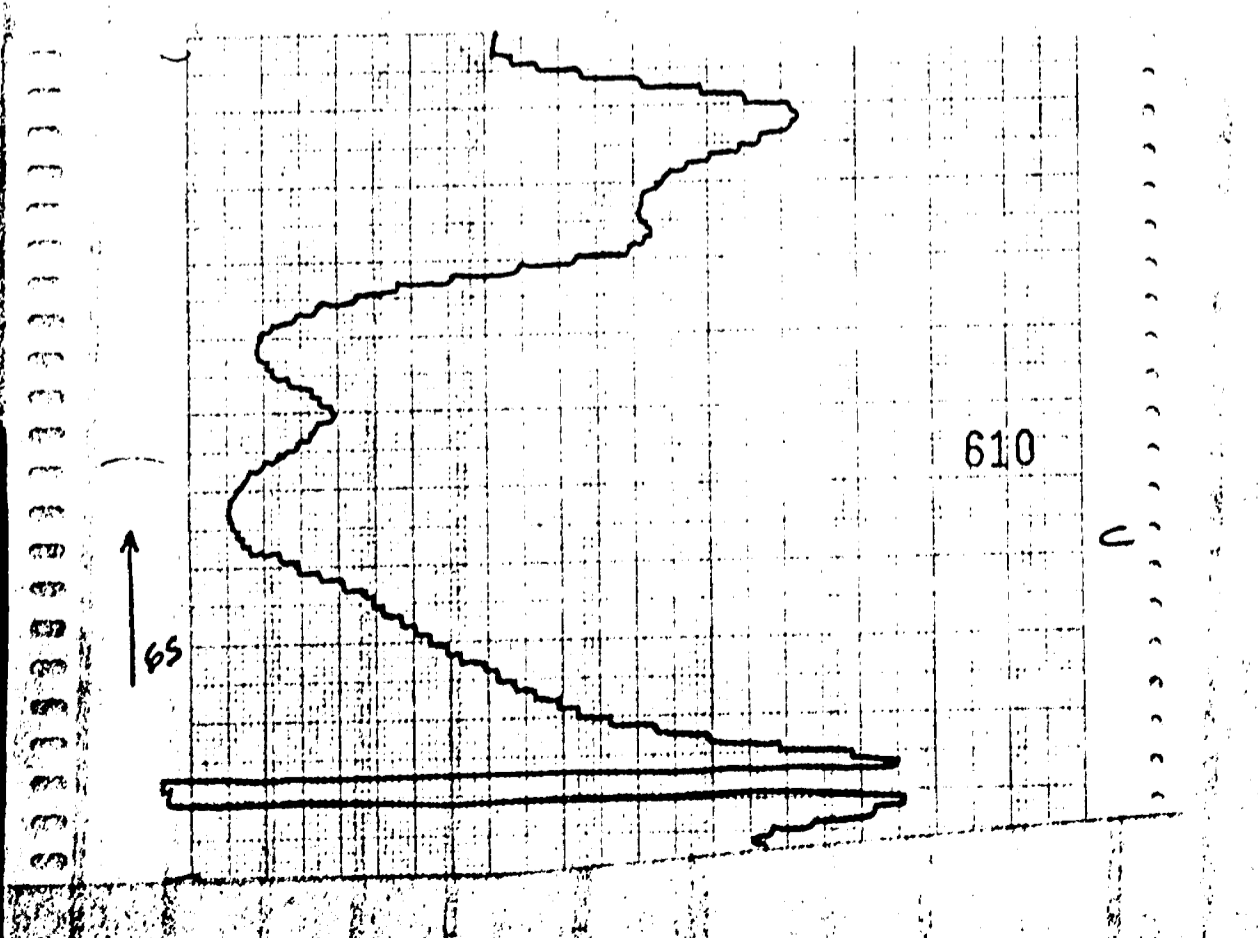
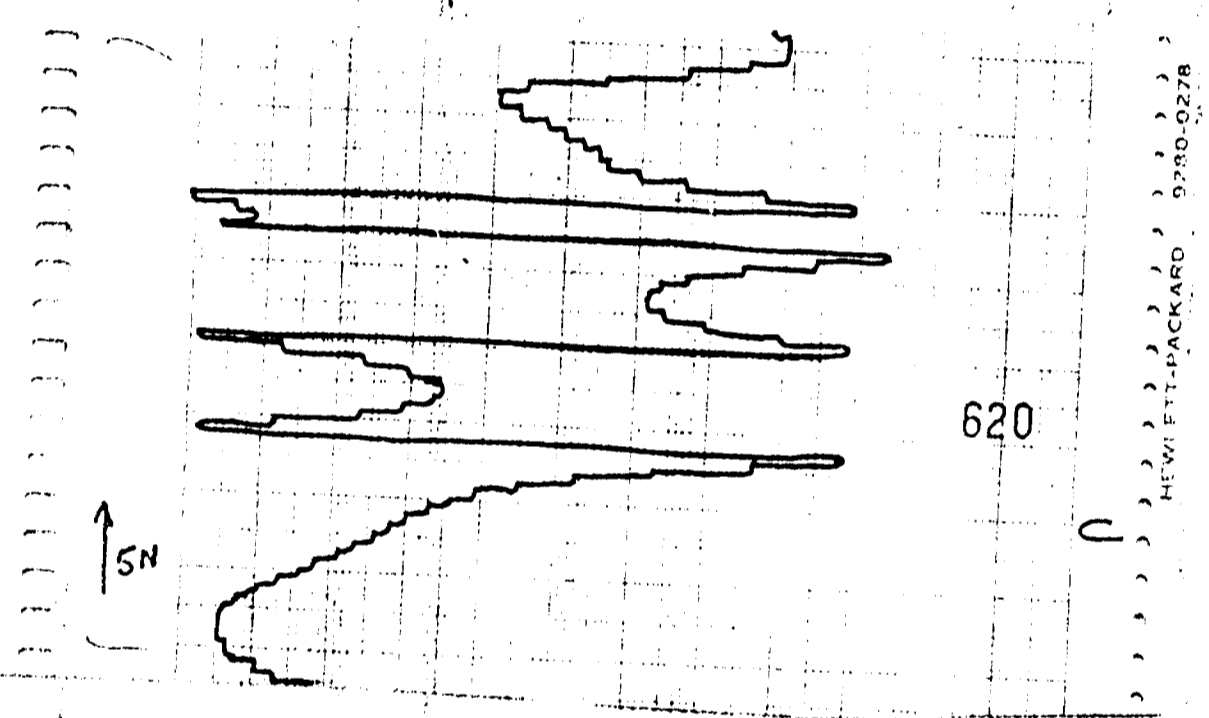
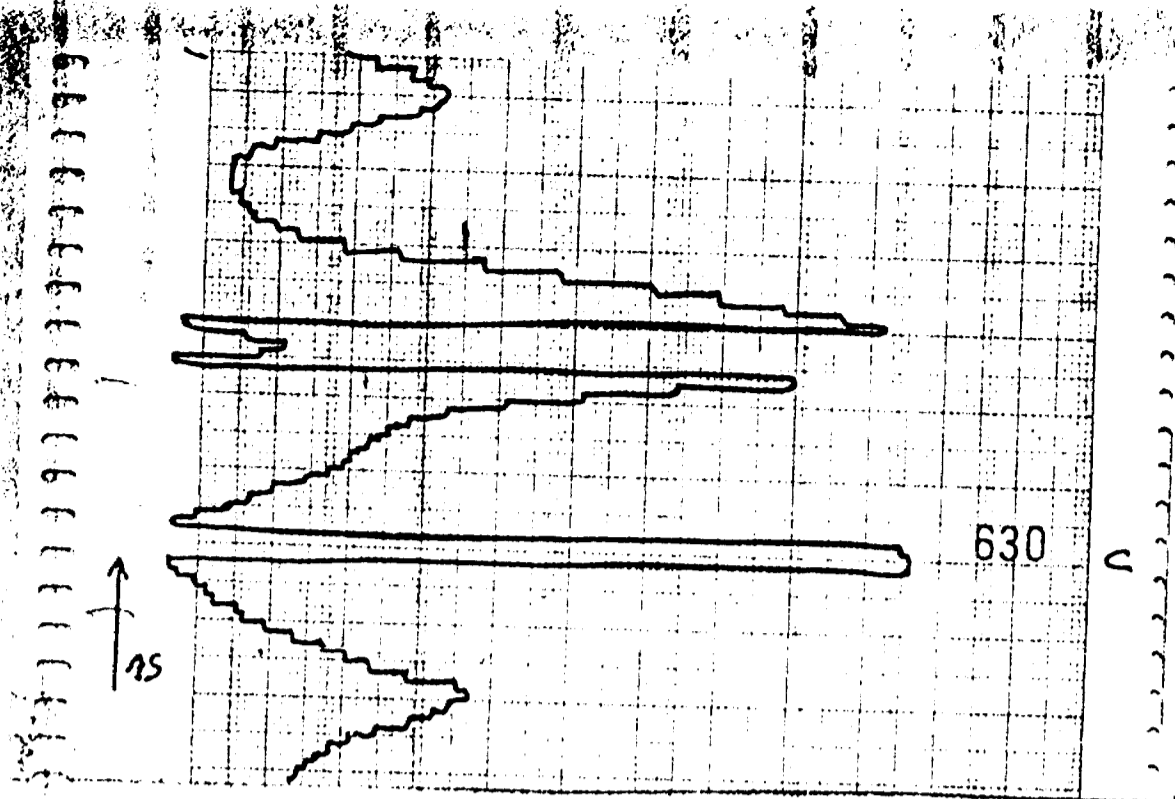
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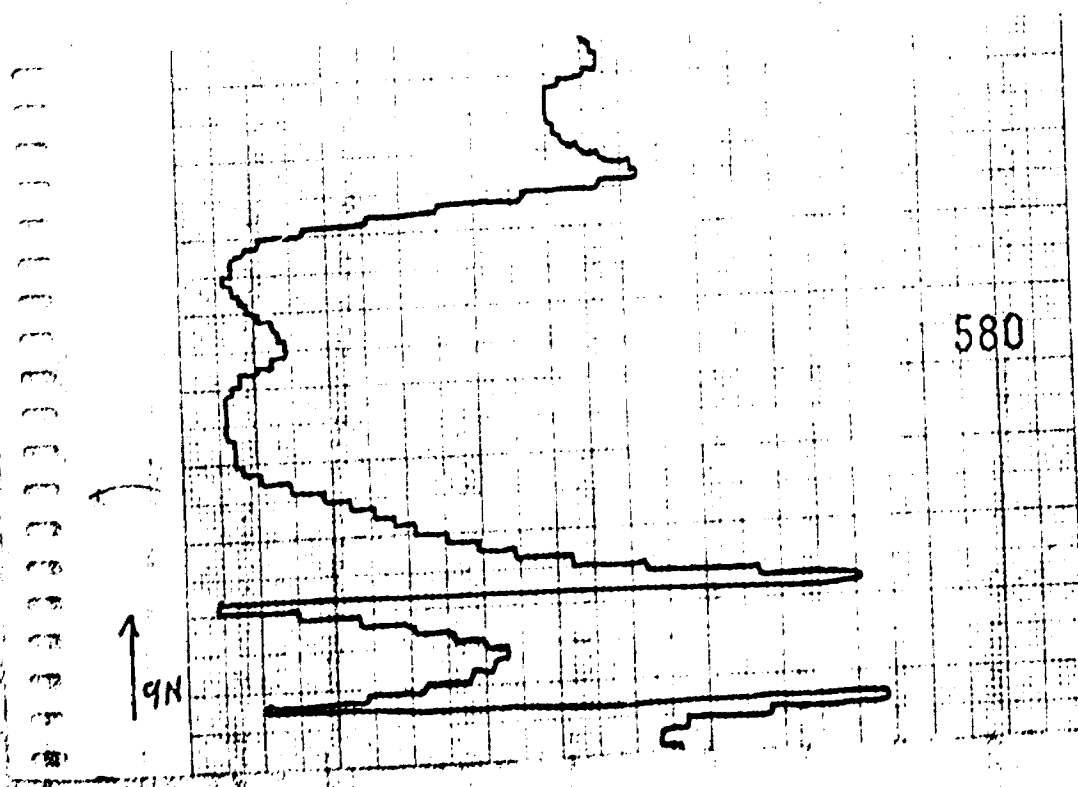
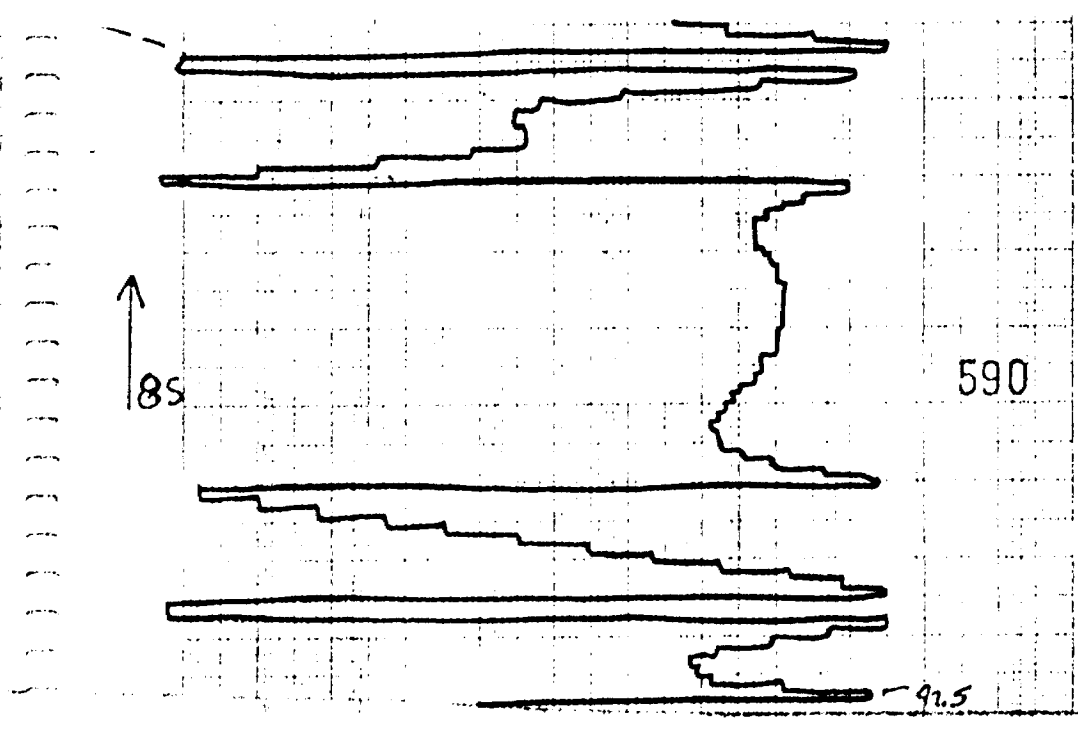
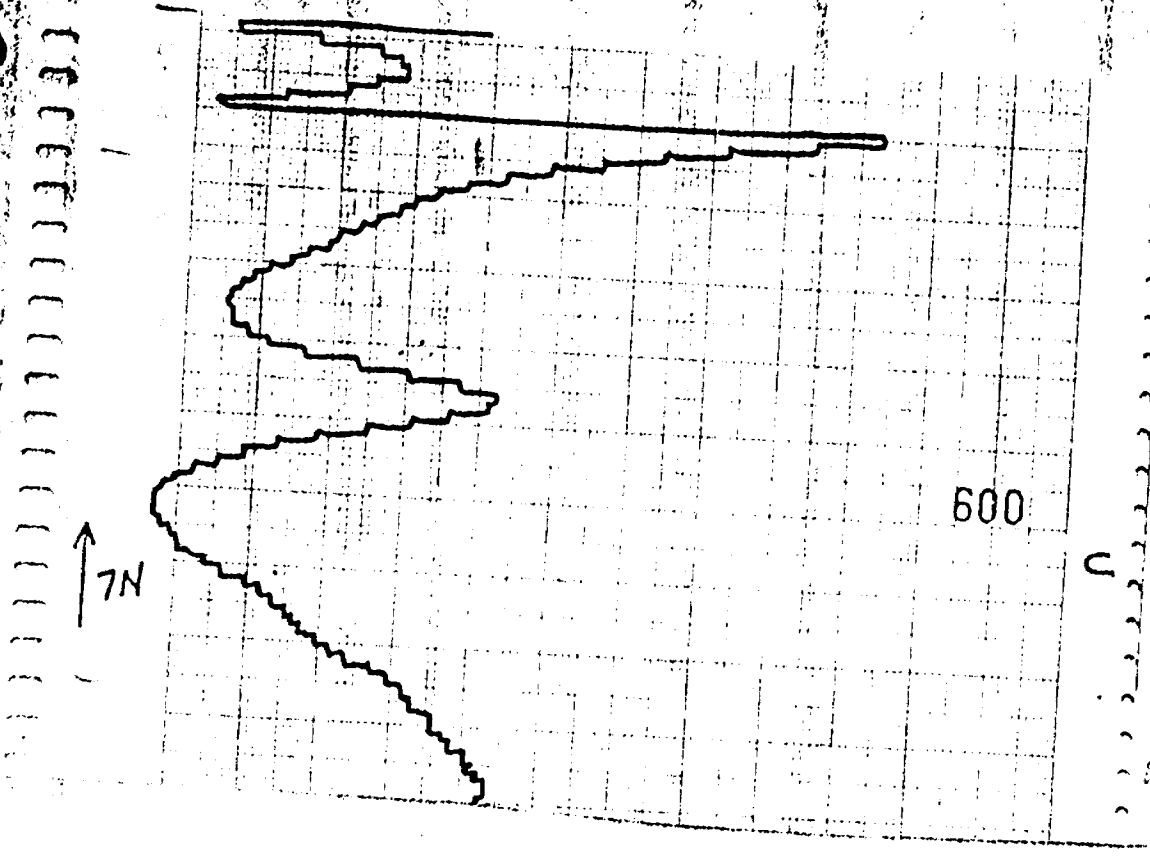


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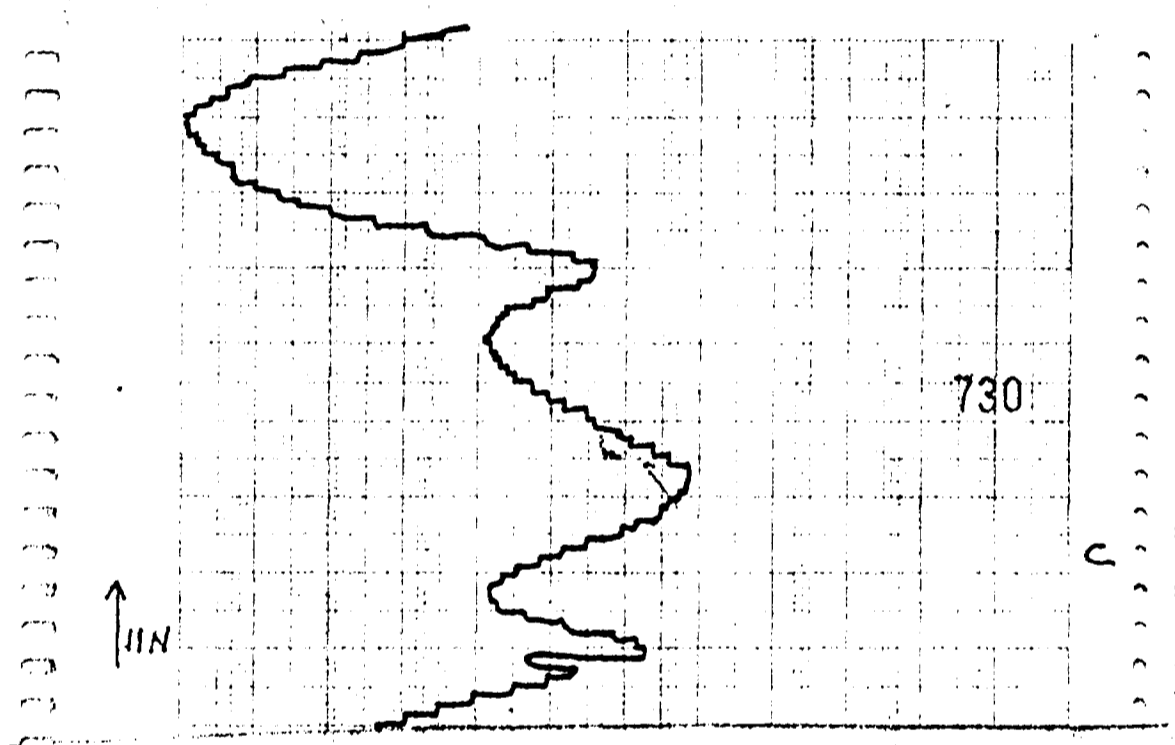
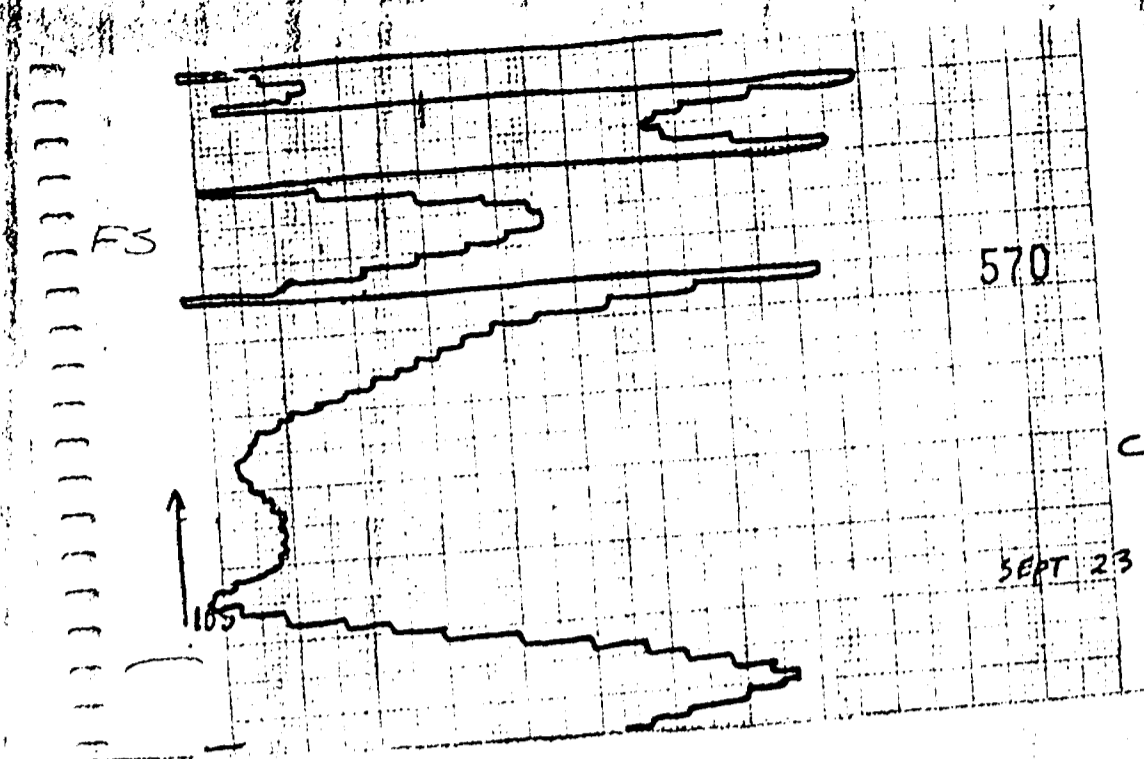




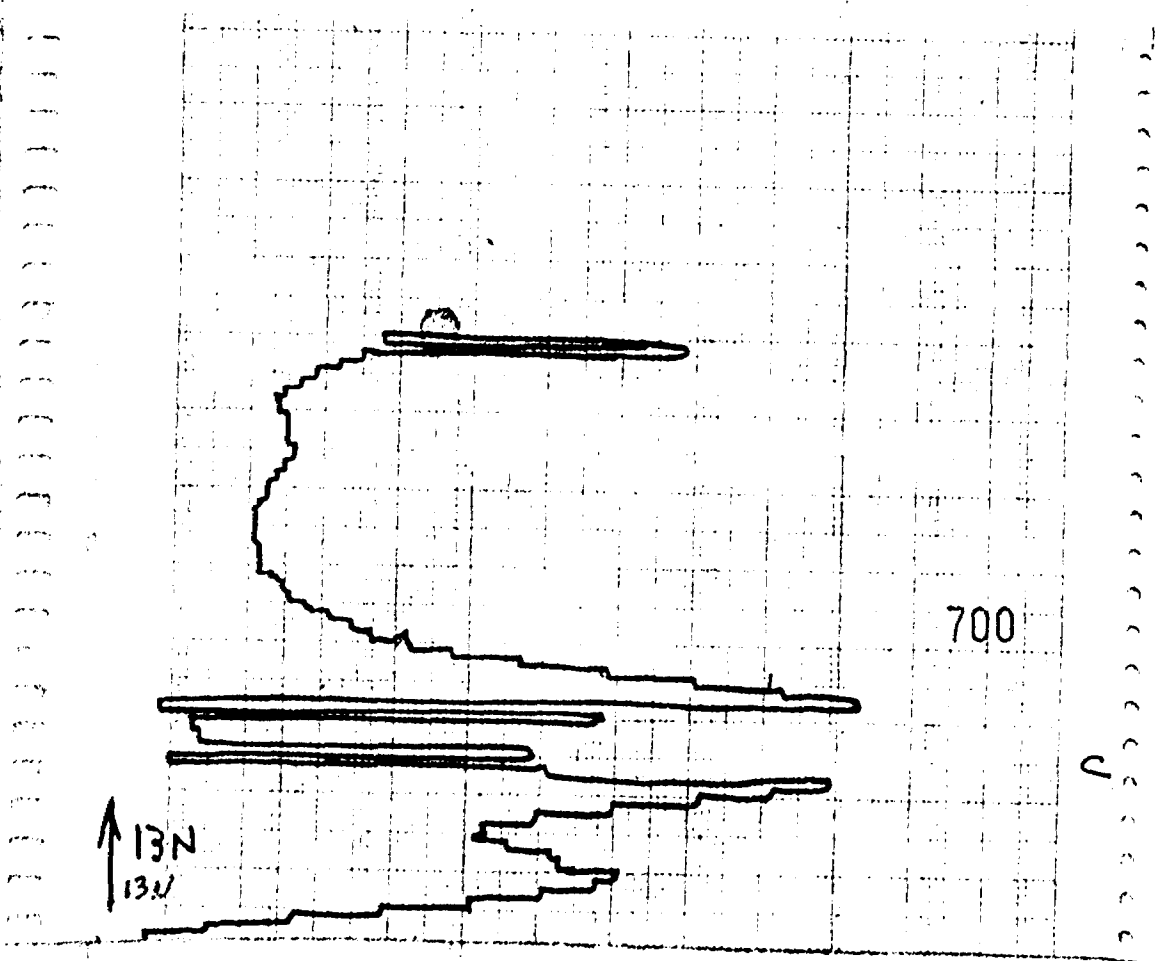
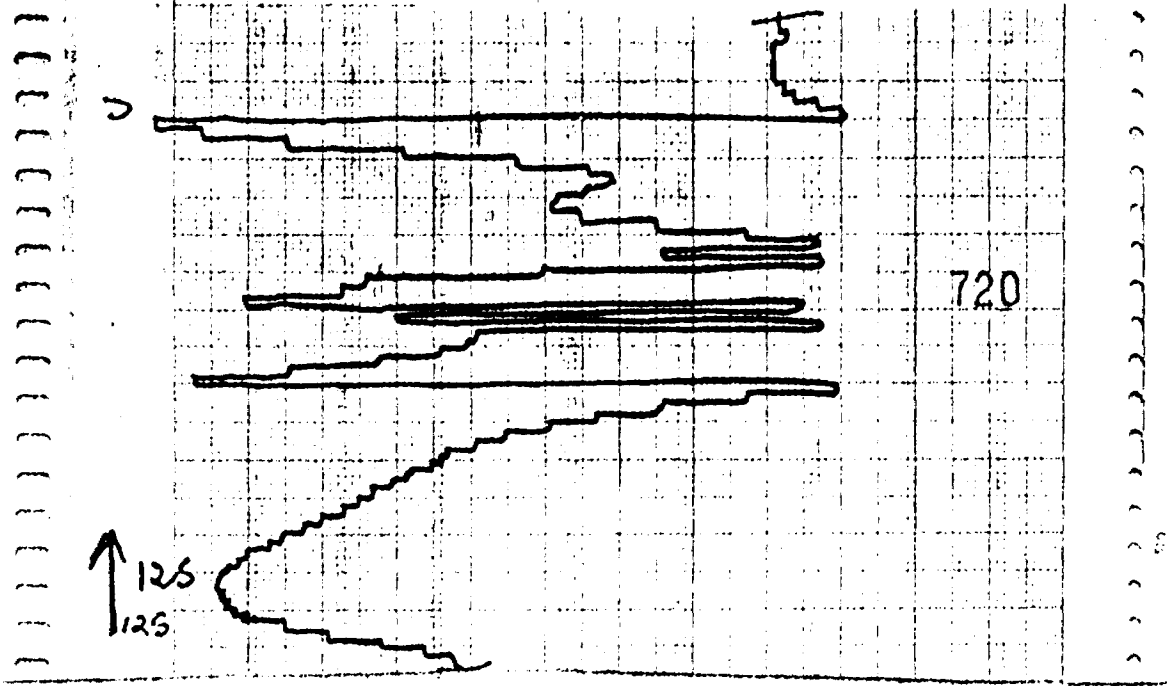




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SELF POTENTIAL

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 magnetometer - Sensor is toroidal 104 Series, non-directional and noise-cancelling

AIRBORNE SURVEYS

Type of survey(s) Airborne Magnetometer - Sensor is toroidal 104 Series, non Directional

Instrument(s) M0123 Airborne Magnetometer (Barringer and noise cancelling.

Model 7155 - continuous strip recorder  
(specify for each type of survey)

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

Aircraft used Cessna - 180 CF PKL

Sensor altitude 250'

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

Light winds hence excellent control

Aircraft altitude 330' Line Spacing 330'

Miles flown over total area 155 Miles Over claims only 36 Miles



Ontario

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OCT 01 1978

Ministry of Natural Resources

Notification of recording

MINING LANDS SECTION

of assessment work credits

Office of the Mining Recorder  
174 Douglas Street West  
Sudbury, Ontario, P3E 1G1

Supervisor, Projects Unit  
Mining Lands Section  
Ministry of Natural Resources  
Room 1617, Whitney Block  
Queen's Park, Toronto  
M7A 1W3

Date of recording of work: September 25, 1978

Recorded holder: Isaac Burns & Albert Jerome Jr. (Address Below)

Address: 1073 Stafford St., Sudbury, Ontario, P3A 3G3

Township or Area: Roberts & Creelman Twps.

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	S.424064 - 081 incl.
Electromagnetic _____ days	S.469759 - 771 incl.
Airborne Magnetometer <u>40</u> days	
Radiometric _____ days	
Induced polarization _____ days	
Section 86 (18) _____ days	
Geological _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/>	Airborne <input checked="" type="checkbox"/>
Special provision <input checked="" type="checkbox"/>	Ground <input type="checkbox"/>

Notice to recorded holder:

*Nov. 14/78*

*R.M. Chausky*

Mining recorder

Survey reports and maps in duplicate must be submitted to the Projects Unit, Toronto within 60 days from the date of recording of this work.

Reports and maps are being forwarded to the Projects Unit with this letter.

c.c. Mr. Isaac Burns  
1073 Stafford St.  
Sudbury, Ontario, P3A 3G3

c.c. Mr. Albert Jerome, Jr.  
695 Emily St., Box 491  
Hanmer, Ontario, P0M 1Y0



Ministry of  
Natural  
Resources

Jan. 19/78

U

Your file:

1979 01 17

Our file: 2.2850

Mrs. R.M. Charnesky  
Mining Recorder  
Ministry of Natural Resources  
174 Douglas Street West  
Sudbury, Ontario  
P3E 1G1

Dear Mrs. Charnesky:

Re: Mining Claims S. 424064 et al. Roberts and Creelman Townships  
File 2.2850

The Airborne Geophysical (Magnetometer) assessment work credits as shown on the attached statement have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours very truly,

J.C. Smith  
Acting Director  
Lands Administration Branch  
Whitney Block, Room 6450  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: 416/965-6918

DN:ie

cc: Mr. Isaac Burns  
Sudbury, Ontario  
Mr. Albert Jerome Jr.  
Hammar, Ontario  
Erana Mines Limited  
Sudbury, Ontario  
Attn: Mr. E.J. Blanchard  
Deputy Regional Director  
Sudbury, Ontario  
Attn: Resident Geologist



Ministry of  
Natural  
Resources

Lands  
Administration  
Branch

Projects  
Unit

Technical Assessment  
Work Credits

File  
2.2850

Recorded Holder:	Isaac Burns and Albert Jerome Jr.
Township or Area:	Roberts and Creelman Townships

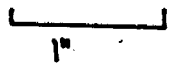
Type of survey and number of Assessment days credit per claim	Mining Claims
<b>Geophysical</b> Electromagnetic _____ days Magnetometer <u>40</u> _____ days Radiometric _____ days Induced polarization _____ days Section 86 (18) _____ days <b>Geological</b> _____ days <b>Geochemical</b> _____ days Man days <input type="checkbox"/> Airborne <input checked="" type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/>	S. 424064 to 81 inclusive 469759 to 71 "
<b>Notice of Intent to be issued:</b> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant. <input type="checkbox"/> No credits have been allowed for the following mining claims as they were not sufficiently covered by the survey: _____ _____ _____ _____ _____	

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40;

CREELMAN TWP

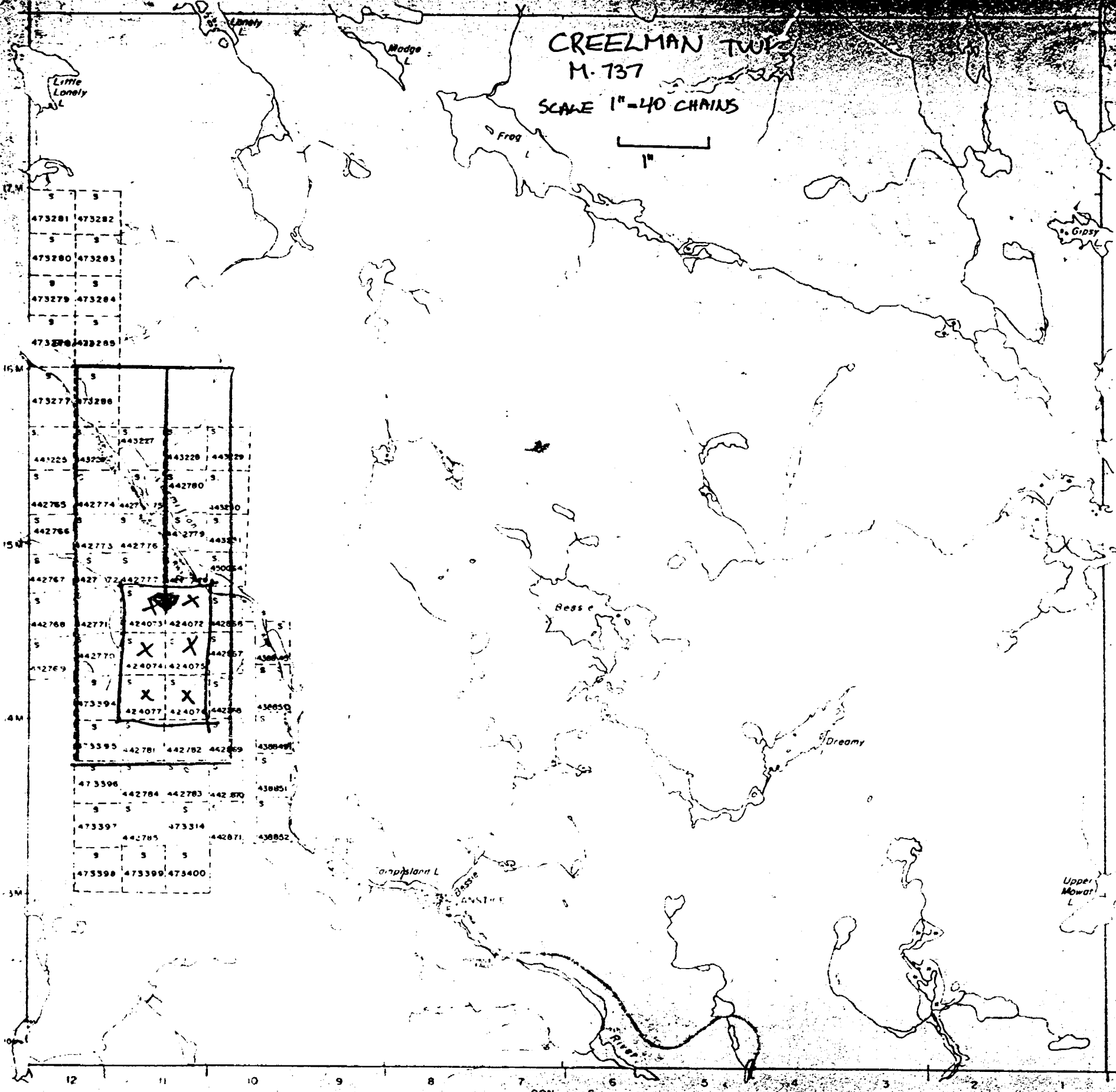
M. 737

SCALE 1"=40 CHAINS



ROBERTS TWP. M. 1078

FRALECK TWP. M. 816



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473280	473285
473279	473284
473278	473283

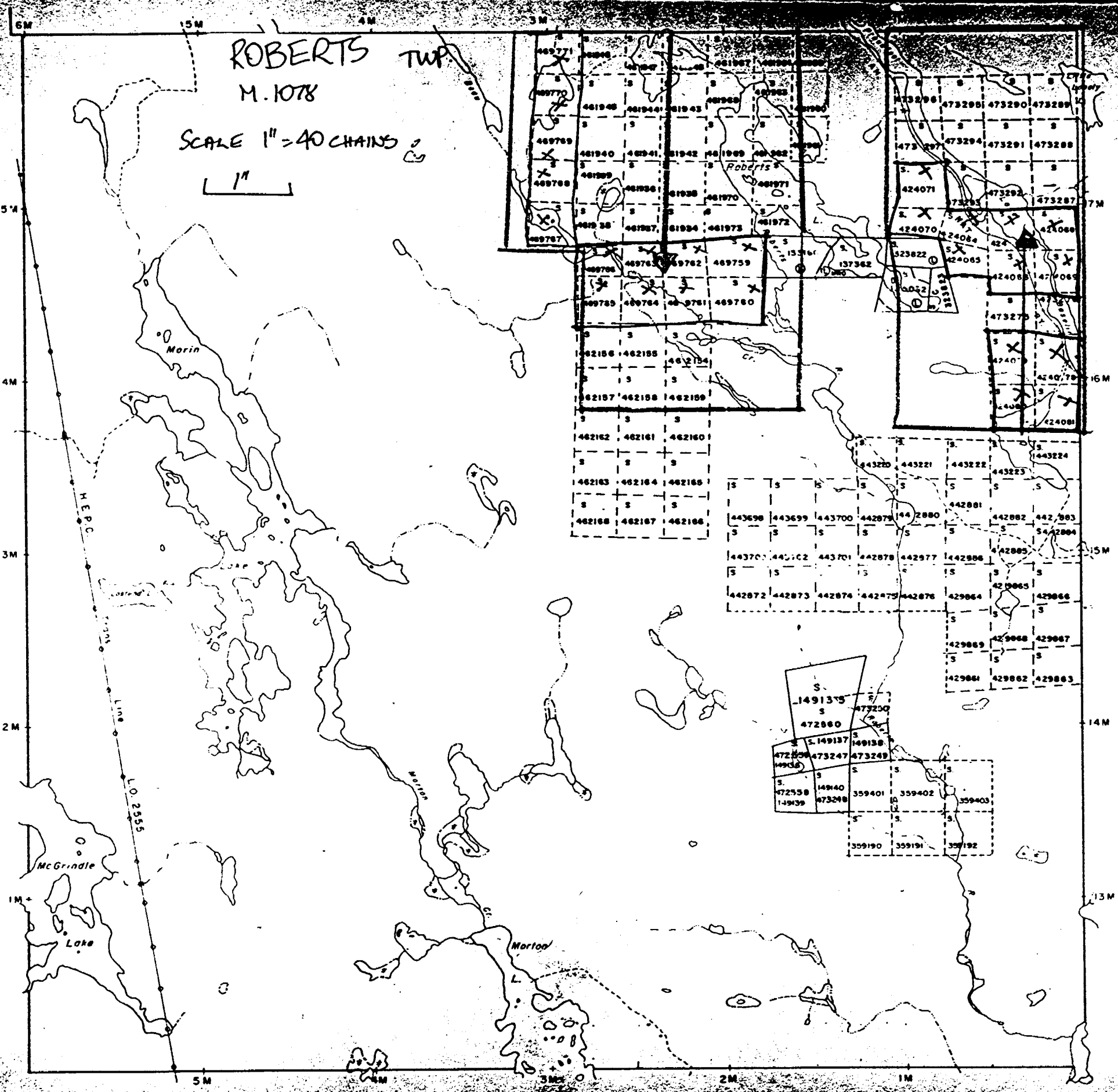
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442767	442772	442777	442781	450054

442768	442771	424073	424072	442856
442770	442770	424074	424075	442857
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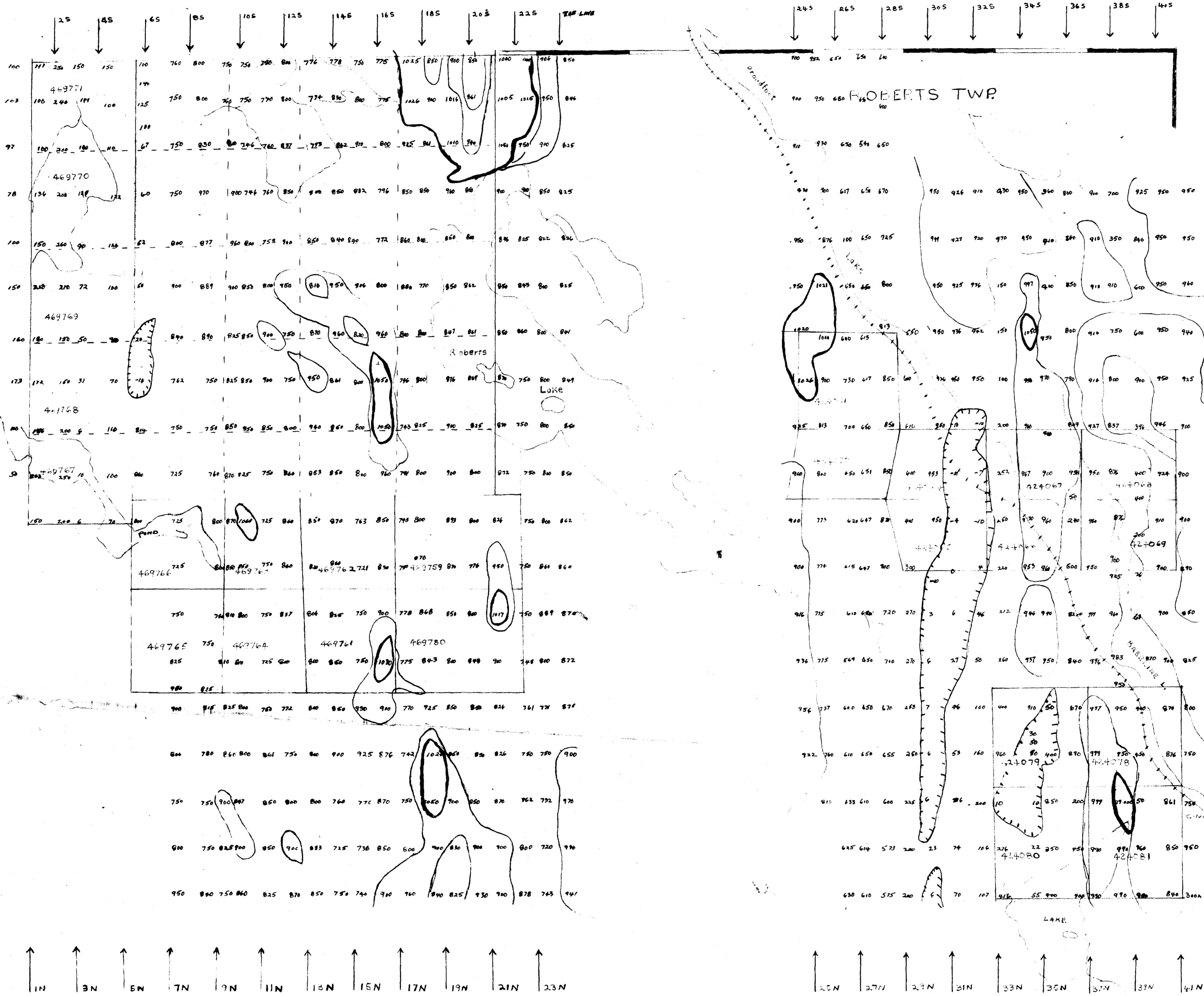
Botha Twp. M. 674

Creelman Twp. M. 737





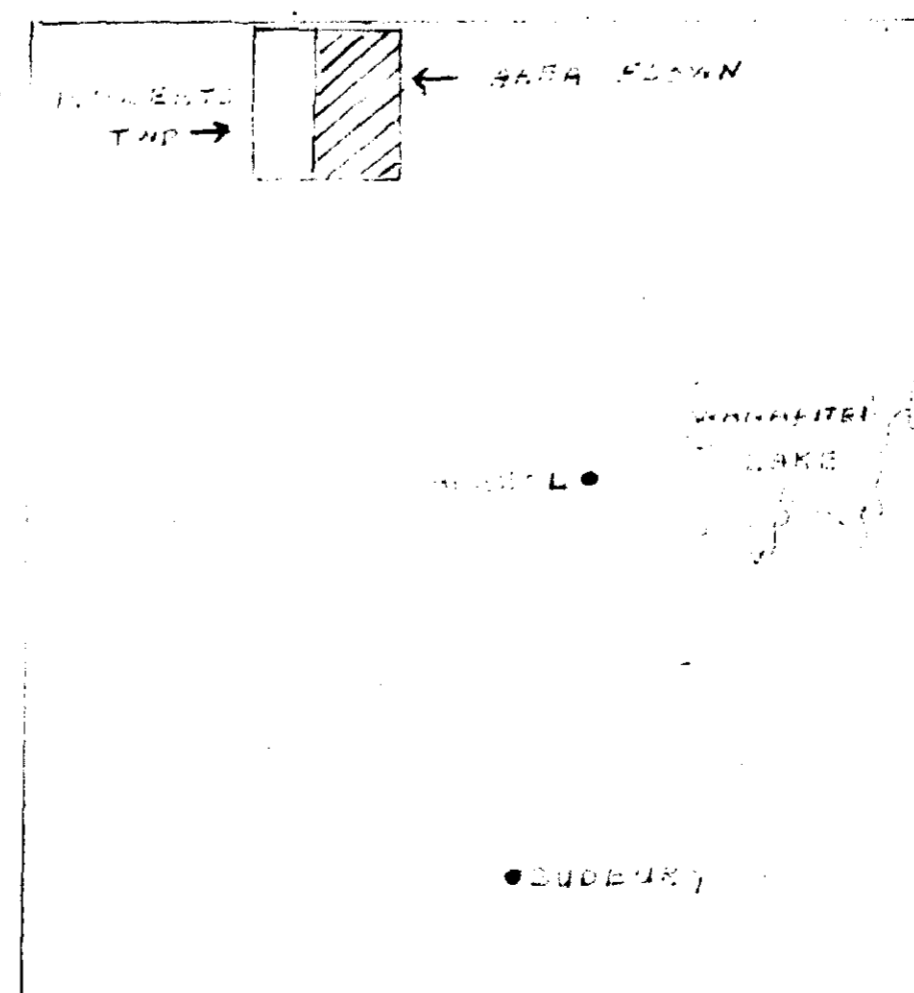
Beaumont TWP. M 655



AIRBORNE MAGNETOMETER SURVEY  
ROBERTS TWP.

← FLIGHT LINES

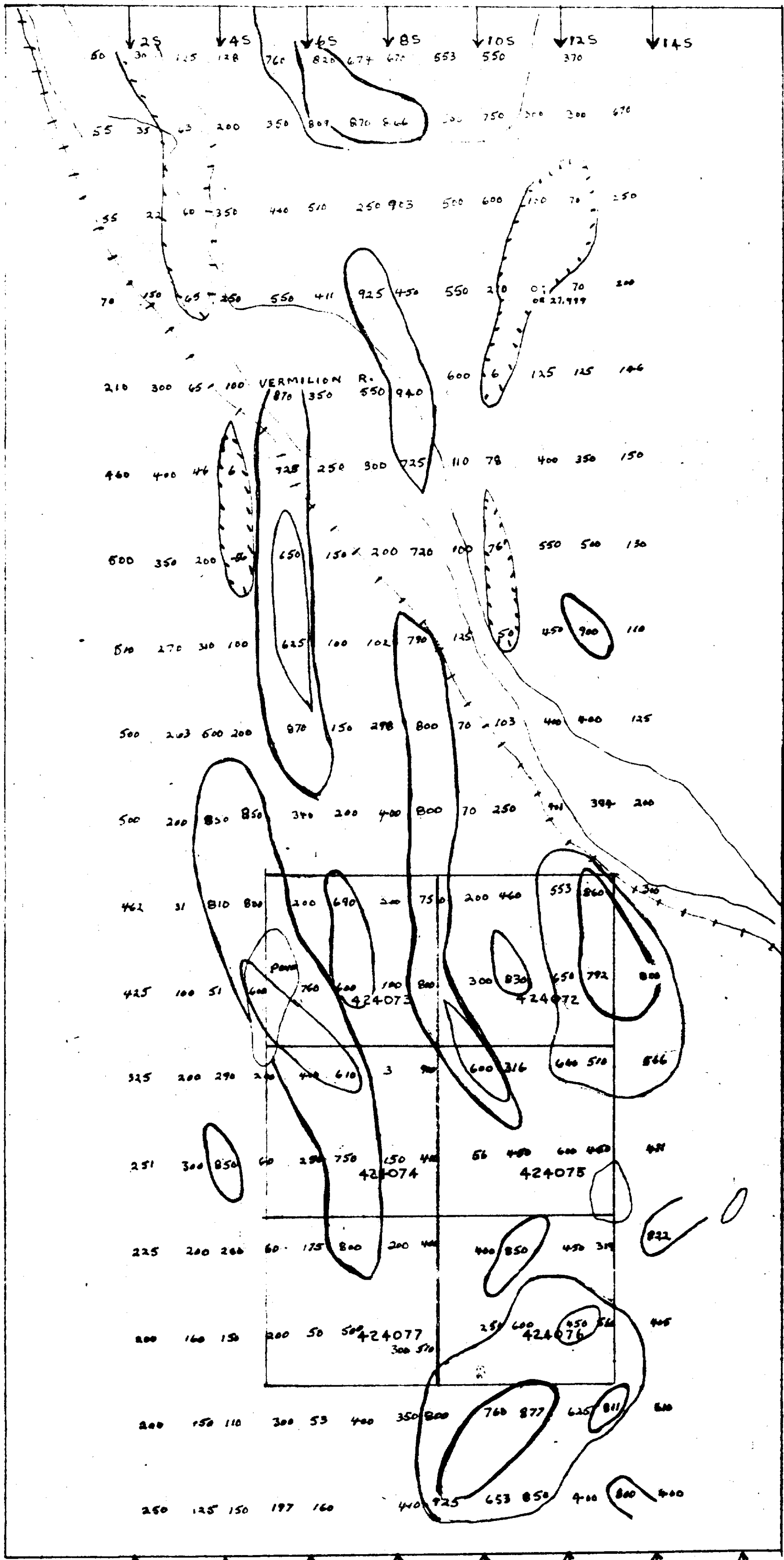
SCALE 1" = 500'



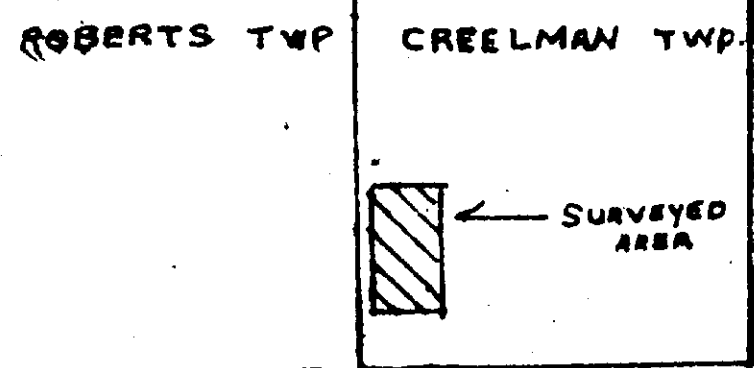
CREELMAN-00B

#1





210



+ 58,000 GAMMAS  
 — 500-700 GAMMAS  
 — OVER 700 GAMMAS  
 ○ MAGNETIC LOW

AIRBORNE MAGNETOMETER SURVEY  
 CREELMAN TWP.

SCALE 1" = 660'

*E. J. Blum*  
 CREELMAN-0013



#2