

SCHLUMBERGER

INDUCTION ELECTRICAL LOG
 SCHLUMBERGER OF CANADA
 Calgary, Alberta

PROVINCE YUKON TERRITORY
 FIELD WILDCAT
 WELL SOBC BLACKSTONE
Y.T. D-77
 COMPANY THE CALIFORNIA
STANDARD COMPANY

Date	27 APRIL 62	12 JULY 62	20 NOV 62
Run No.	ONE	TWO	THREE
First reading	1967	6064	13201
Last reading	199	1972	5303
Feet measured	1768	4092	7898
Depth reached	1968	6065	13202
Bottom Driller	1980	6065	13217
Crg. SOC	199	1972	5303
Crg. Driller	200	1971	5303
Mud Nature	GEL CHEMICAL	GEL CHEMICAL	LIME
Dens. Visc.	9.6 103	9.8 54	9.2 143
Mud pH	9.5	12.5	13.0
Water Loss	4.6	3.9	10.0
Res.	RMKS @ 80	RMKS @ 74	RMKS @ 68
BHT	1.8	0.5	122
Rmf	@ 0.6	@ 76	@ 68
Rmc	@ 1.1	@ 76	@ 68
Bit Size	12 1/4"	16"	8 5/8"
Spacing - AM	16"	16"	16"
Ind. Type	34.16"	34.16"	34.16"
.. MN	6FF40	6FF40	6FF40
Oper. Rig Time	1.5 HR	2 HRS	8 HRS
Track No.	OSU-72 - DG	OSU-72 - DG	OSU-72 - DG
Recorded By	KELLY	PRAIRIE	GRAY
Witness	MALOSVANY	COSGROVE, CHANT & NEWHOUSE	CHANI

COMPANY	THE CALIFORNIA STANDARD
WELL	SOBC BLACKSTONE
FIELD	WILDCAT
PROVINCE	YUKON TERRITORY
LOCATION	65 46' 10.77" N 137 14' 54.78" W
Permanent Datum	GL Elev. 1684(EST)
Log Measured From	KB 16 Ft. Above Perm. Datum
Other Services	SGR, M.C., D.W., L.L.

REMARKS B.H.T. 207 F Measured 16 Hours After Circulation

RUN #3
 Stand Off = 1.5 Inches
 Cartridge No. IRC-F-38
 Panel No. IRP-F-160
 Sonde No. IRS-M-53
 IAP-D No. IAP-D-106
 SBR SBR-4

*MUD RESISTIVITIES:
 RM1 = 1.97 @ 52 F = 0.5 @ 207 F; RME1 = 1.33 @ 68 F
 RM2 = 1.90 @ 54 F = 0.5 @ 207 F; RME2 = 1.22 @ 68 F
 RM3 = 1.87 @ 54 F = 0.49 @ 207 F; RME3 = 1.17 @ 64 F

REMARKS B.H.T. 122 F Measured 3.5 Hours After Circulation

RUN #2
 Stand Off = 1.2 Inches
 Cartridge No. F-24
 Panel No. F-180
 Sonde No. M-53
 IAP-D No. 267
 SBR 4

CSG 12 1/4" - 5303 - 8 5/8" - 10

REMARKS B.H.T. F Measured 2.2 Hours After Circulation

RUN #1
 Stand Off = 1.2 Inches
 Cartridge No. F-24
 Panel No. F-160

MUD MEASUREMENTS:
 11.30 AM RM 2.00 @ 74 F - RME 2.67 @ 56 F - RMO 2.52 @ 56 F
 11.45 AM RM 2.04 @ 74 F - RME 2.60 @ 58 F

REMARKS

BHT. F. Measured 2.5 Hours After Circulation

RUN #1

MID MEASUREMENTS:

Stand Off		
Cartridge No.	F-24	11.30 AM RM 2.00 @ 74 F - RMF 2.67 @ 56 F - RMC 2.52 @ 56 F
Panel No.	F-160	11.45 AM RM 2.04 @ 74 F - RMF 2.60 @ 58 F
Sonde No.	M-53	12.00 AM RM 2.04 @ 74 F - RMF 1.95 @ 67 F
IAP-D No.	D-267	
SBR	M/S	

SPONTANEOUS-POTENTIAL millivolts	DEPTHS	CONDUCTIVITY millimhos /m = $\frac{1000}{\text{ohms m}^2/\text{m}}$
20 ← → SP RECORDED WITH ES SONDE REFERENCE ELECTRODE. DOWN HOLE TRACED RUN #3		INDUCTION
		200 100 0
		RESISTIVITY - ohms m ² /m
		16" NORMAL
		0 100 0 1000
		INDUCTION
		0 100 0 1000

SPONTANEOUS-POTENTIAL millivolts	DEPTHS	CONDUCTIVITY millimhos /m = $\frac{1000}{\text{ohms m}^2/\text{m}}$
20 ← → RUN #2		INDUCTION
		200 100 0
		RESISTIVITY - ohms m ² /m
		16" NORMAL
		0 100 0 1000
		INDUCTION
		0 100 0 1000

SPONTANEOUS-POTENTIAL millivolts	DEPTHS	CONDUCTIVITY millimhos /m = $\frac{1000}{\text{ohms m}^2/\text{m}}$
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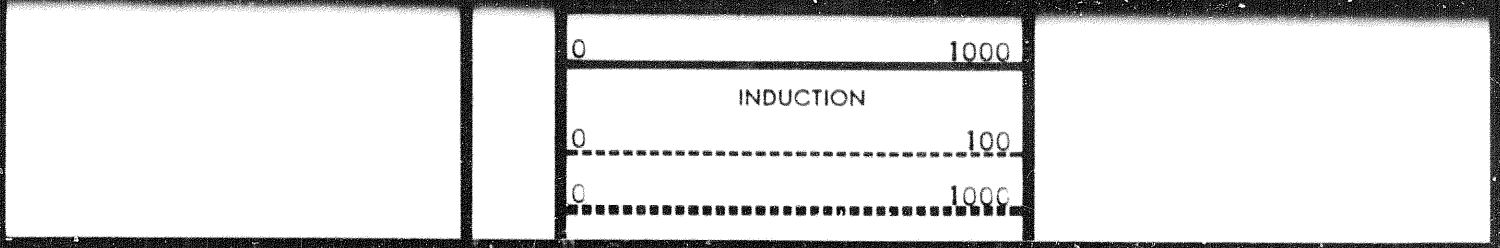
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SPONTANEOUS-POTENTIAL millivolts	DEPTHS	CONDUCTIVITY millimhos /m = $\frac{1000}{\text{ohms m}^2/\text{m}}$
<p style="text-align: center;">20 ↔</p> <p>SP RECORDED WITH ES SONDE REFERENCE ELECTRODE. DOWN HOLE TRACED</p> <p style="text-align: center;">RUN #3</p>		<p style="text-align: right;">INDUCTION</p> <p>200 100 0</p>
		<p style="text-align: center;">RESISTIVITY - ohms m²/m</p>
		<p style="text-align: center;">16" NORMAL</p> <p>0 100</p>
		<p>0 1000</p>
		<p style="text-align: center;">INDUCTION</p> <p>0 100</p> <p>1000</p>

SPONTANEOUS-POTENTIAL millivolts	DEPTHS	CONDUCTIVITY millimhos /m = $\frac{1000}{\text{ohms m}^2/\text{m}}$
<p style="text-align: center;">20 ↔</p> <p style="text-align: center;">RUN #2</p>		<p style="text-align: right;">INDUCTION</p> <p>200 100 0</p>
		<p style="text-align: center;">RESISTIVITY - ohms m²/m</p>
		<p style="text-align: center;">16" NORMAL</p> <p>0 100</p>
		<p>0 1000</p>
		<p style="text-align: center;">INDUCTION</p> <p>0 100</p> <p>1000</p>

SPONTANEOUS-POTENTIAL millivolts	DEPTHS	CONDUCTIVITY millimhos /m = $\frac{1000}{\text{ohms m}^2/\text{m}}$
<p style="text-align: center;">10 ↔</p> <p style="text-align: center;">RUN #1</p>		<p style="text-align: right;">INDUCTION</p> <p>400 200 0</p>
		<p style="text-align: center;">RESISTIVITY - ohms m²/m</p>

101



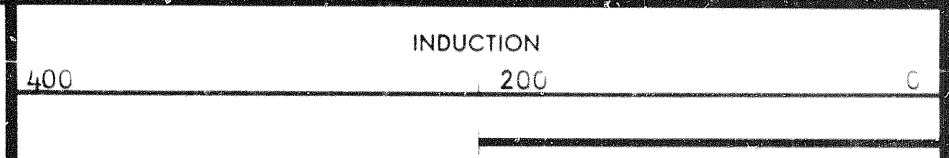
SPONTANEOUS-POTENTIAL
millivolts

DEPTH

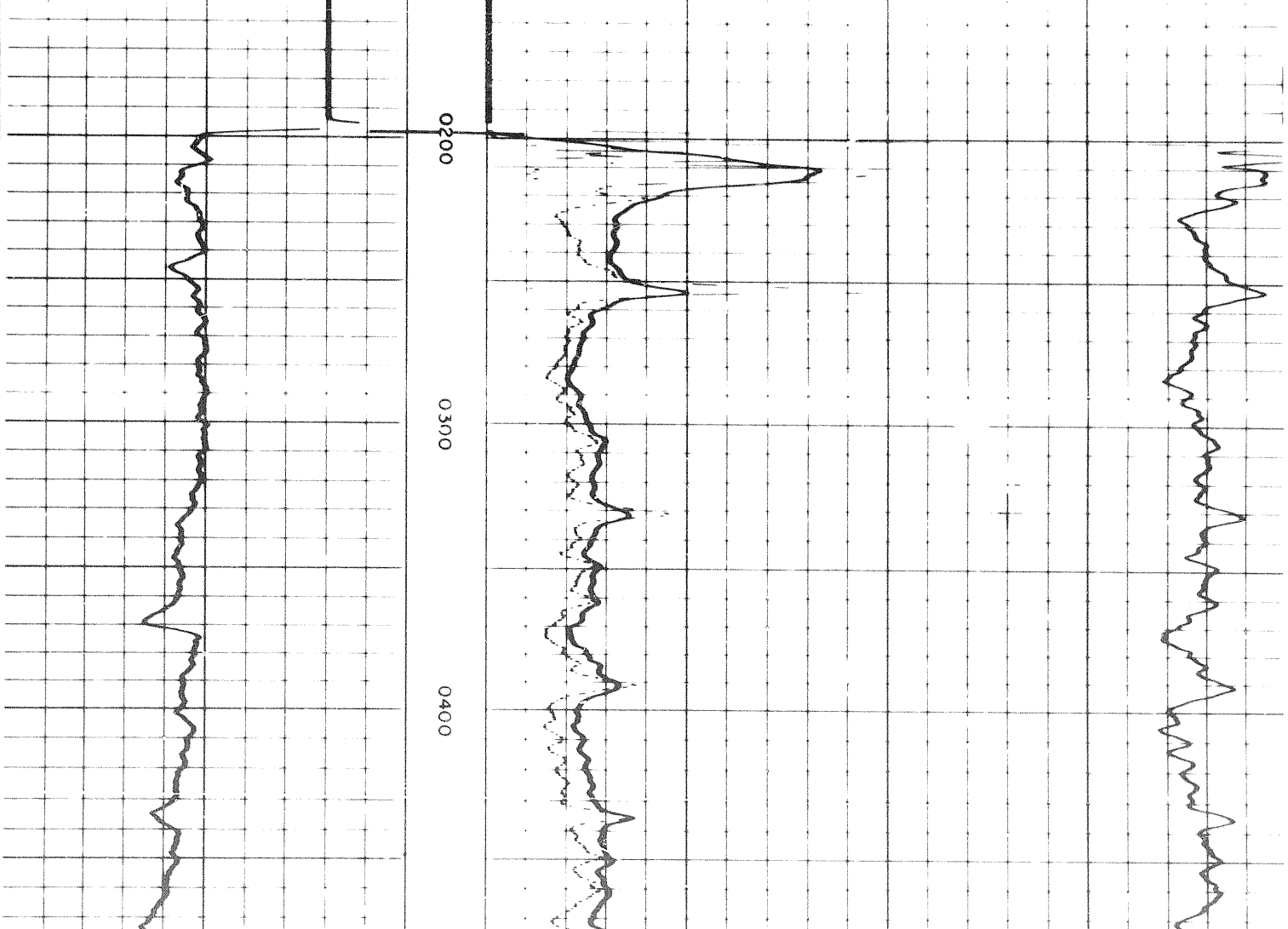
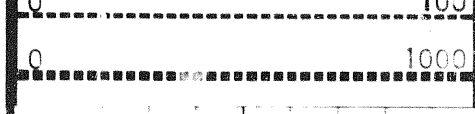
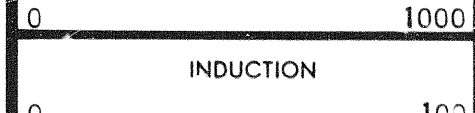
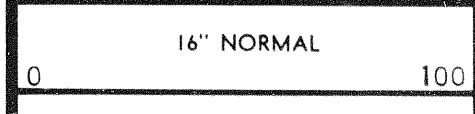
CONDUCTIVITY
millimhos / m = $\frac{1000}{\text{ohms m}^2/\text{m}}$

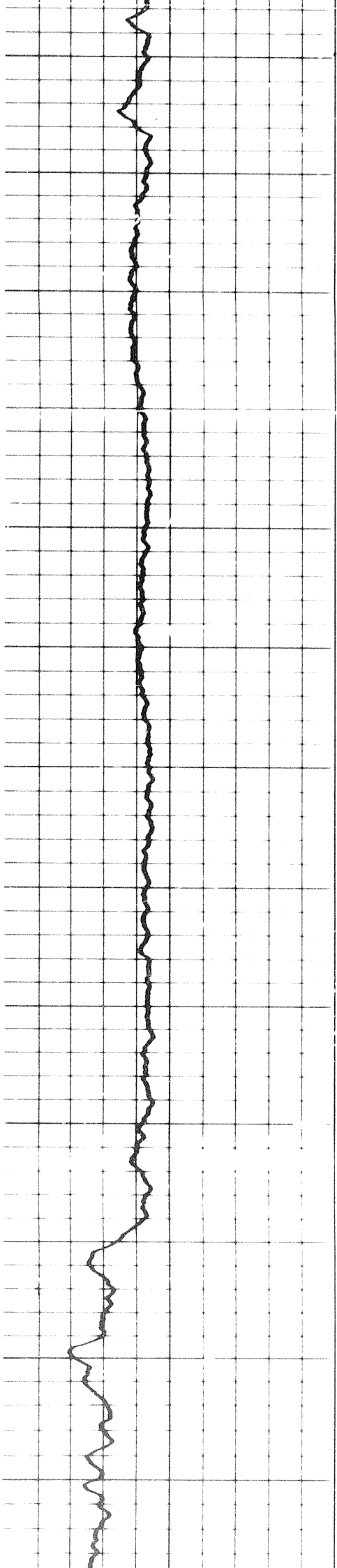
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←→

RUN #1



RESISTIVITY
- ohms m²/m





0500

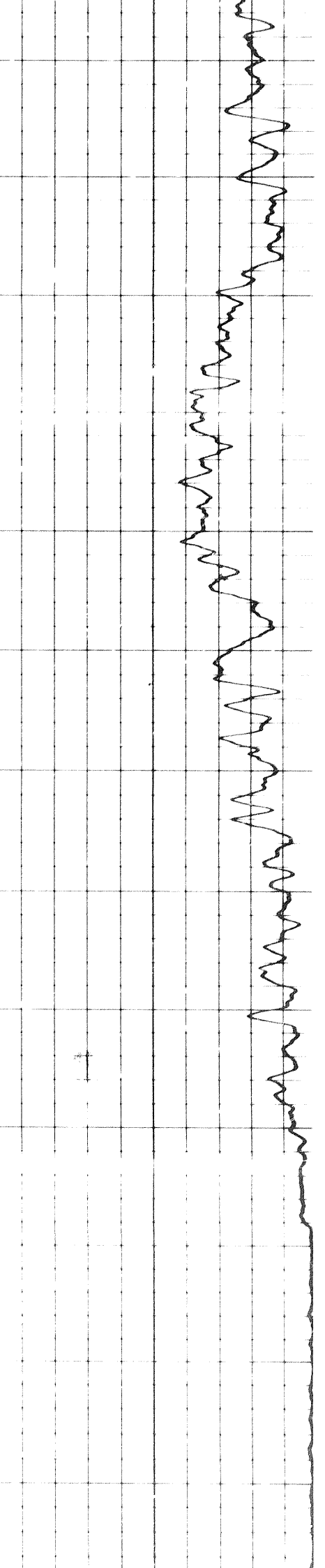
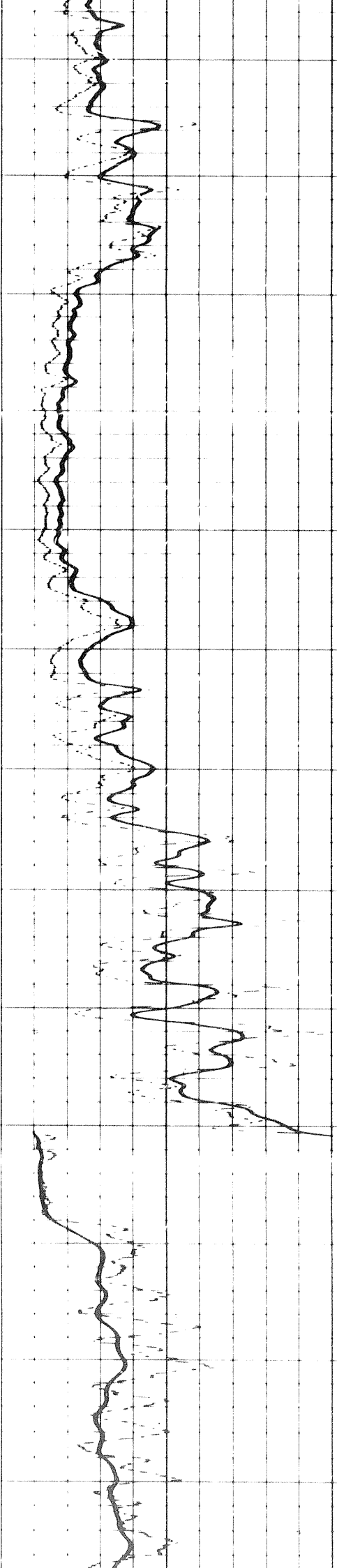
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0700

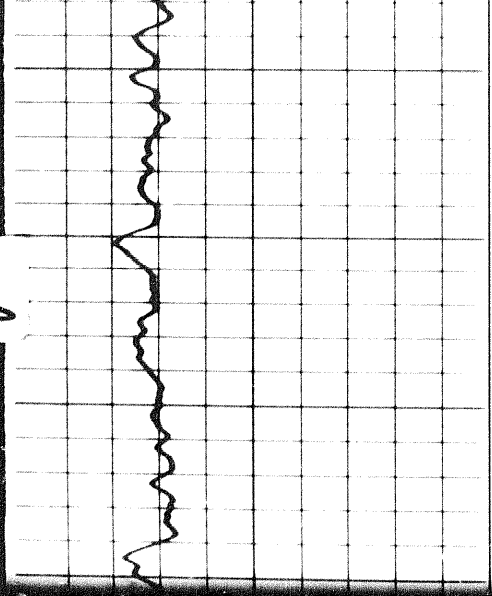
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0900

1000

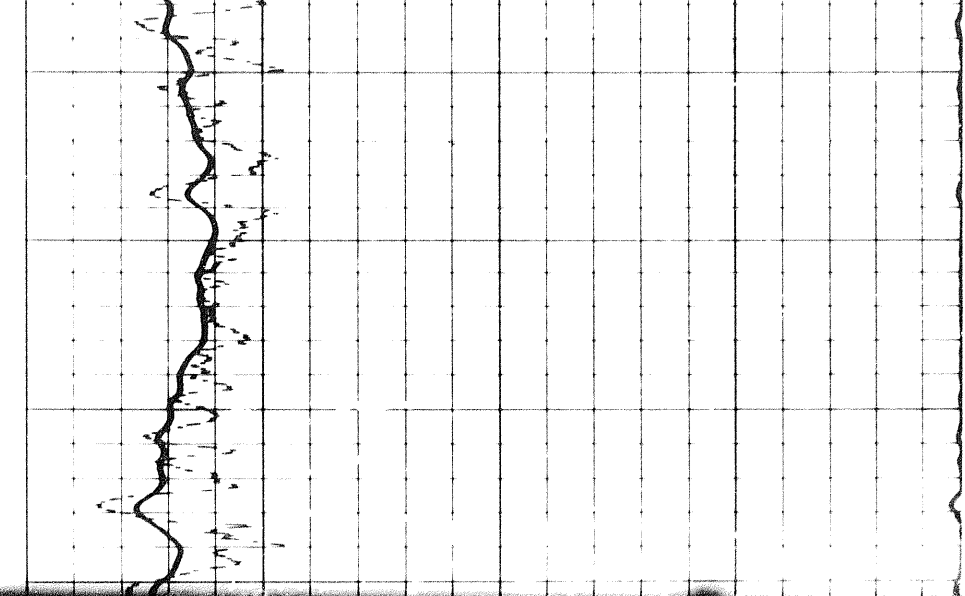


2 of



1100

1200

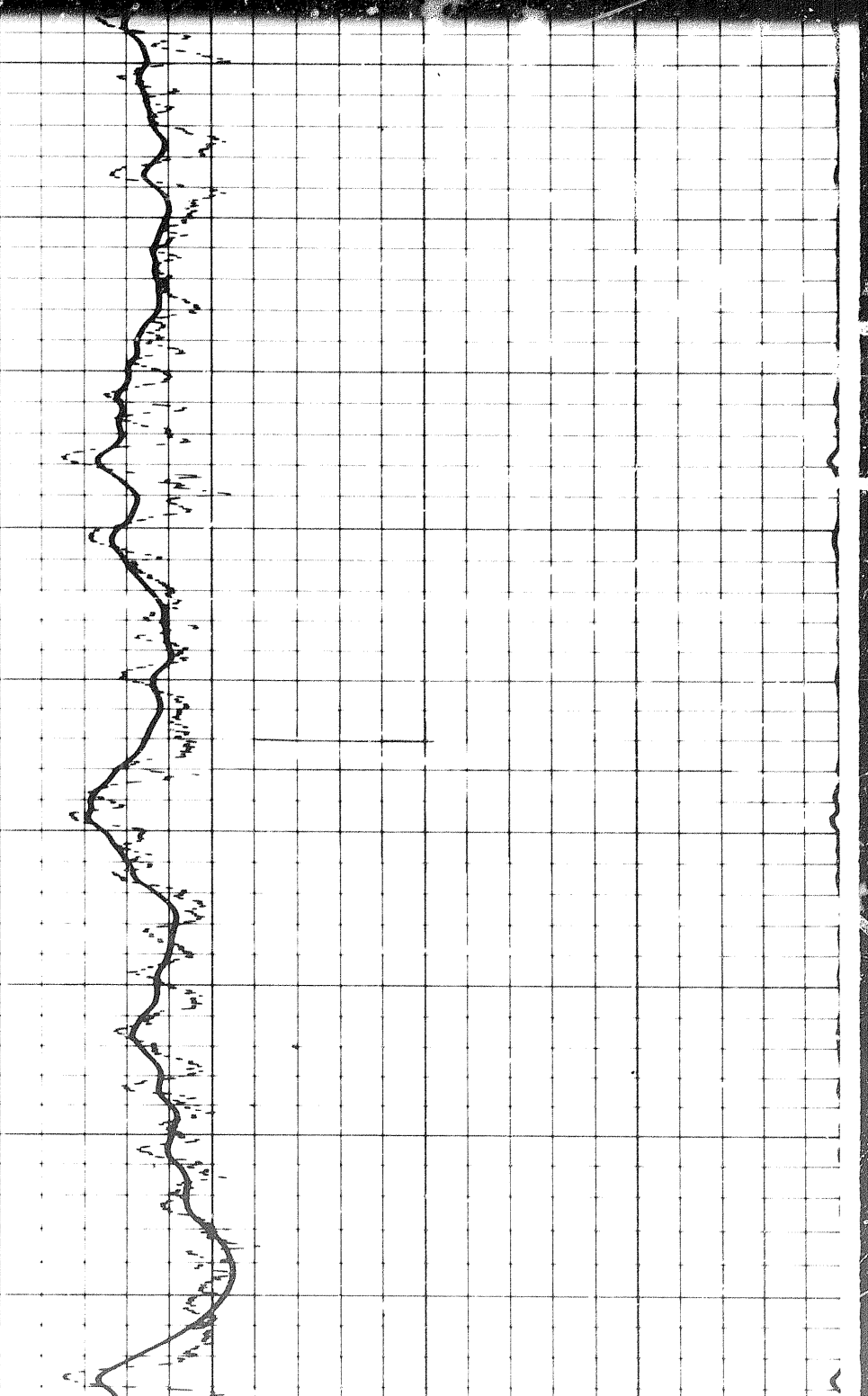
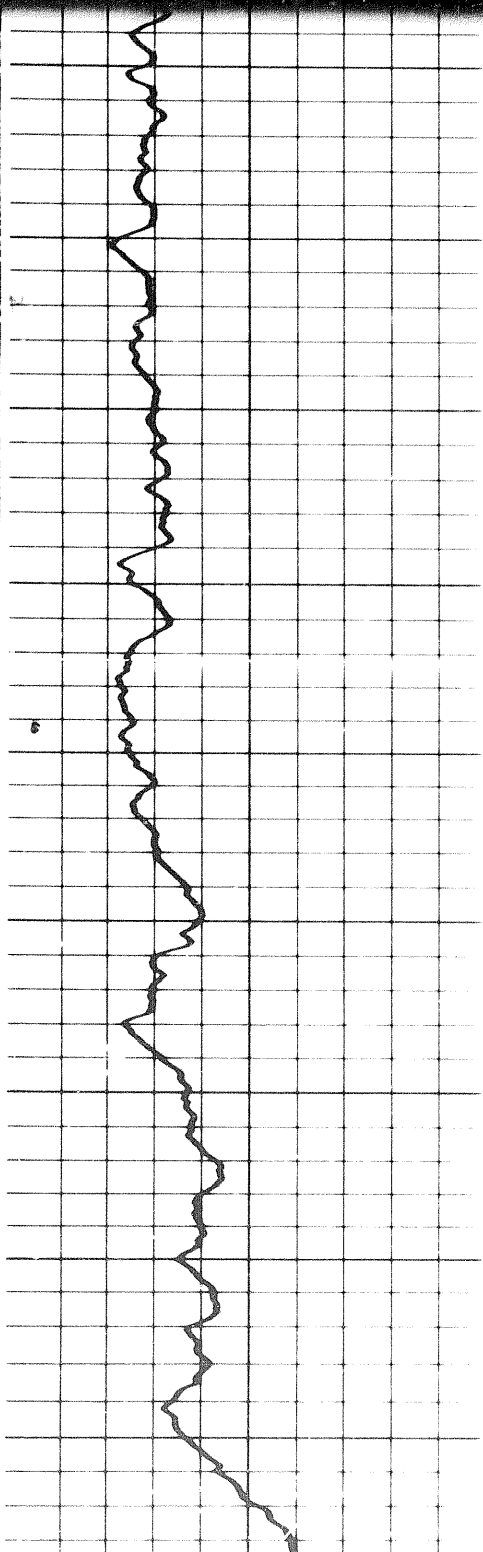


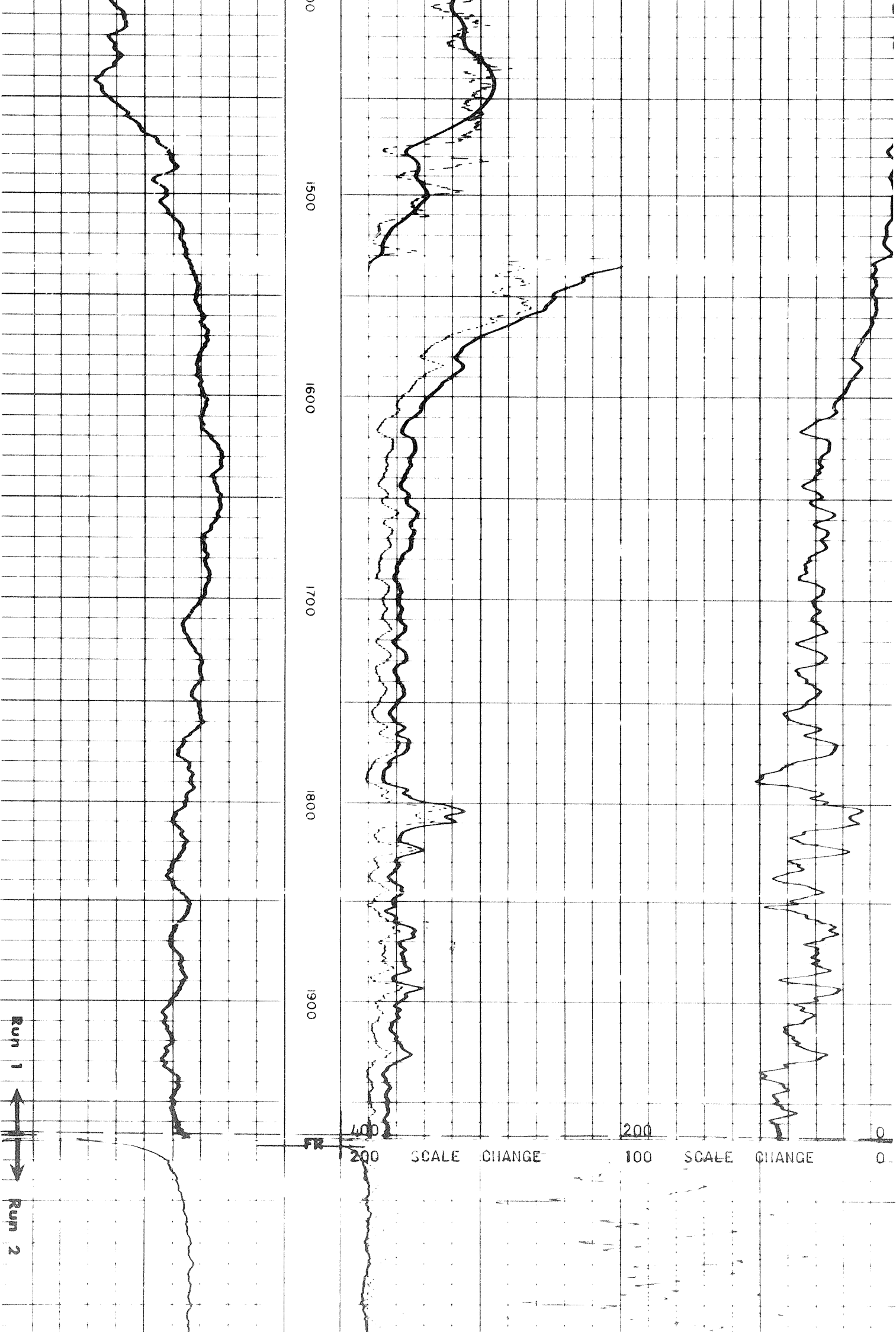
1100

1200

1300

1400





1500

1600

1700

1800

1900

FR

400

200

200

100

0

0

SCALE CHANGE

SCALE CHANGE

Run 1

Run 2

FR

400

200

0

200

SCALE CHANGE

100

SCALE CHANGE

0

Run 2

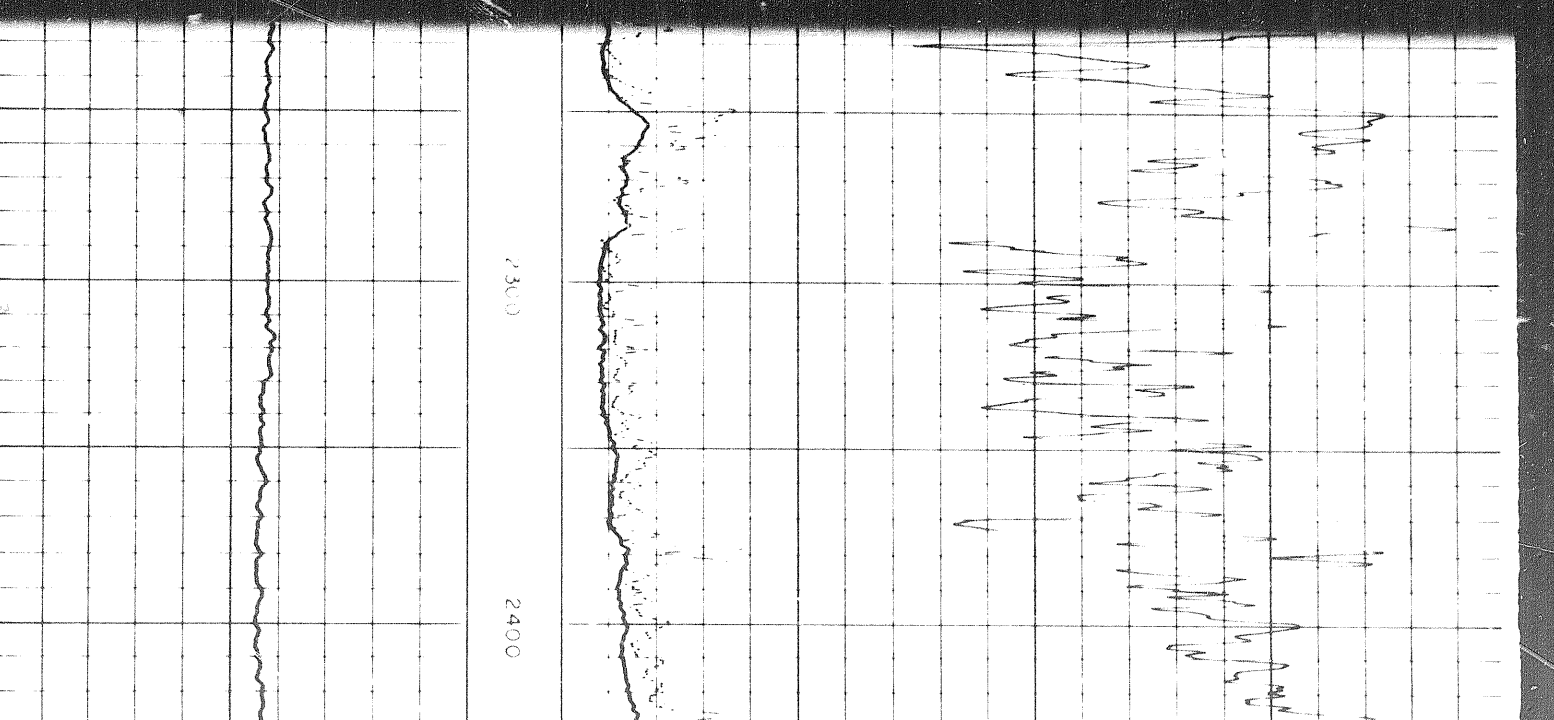
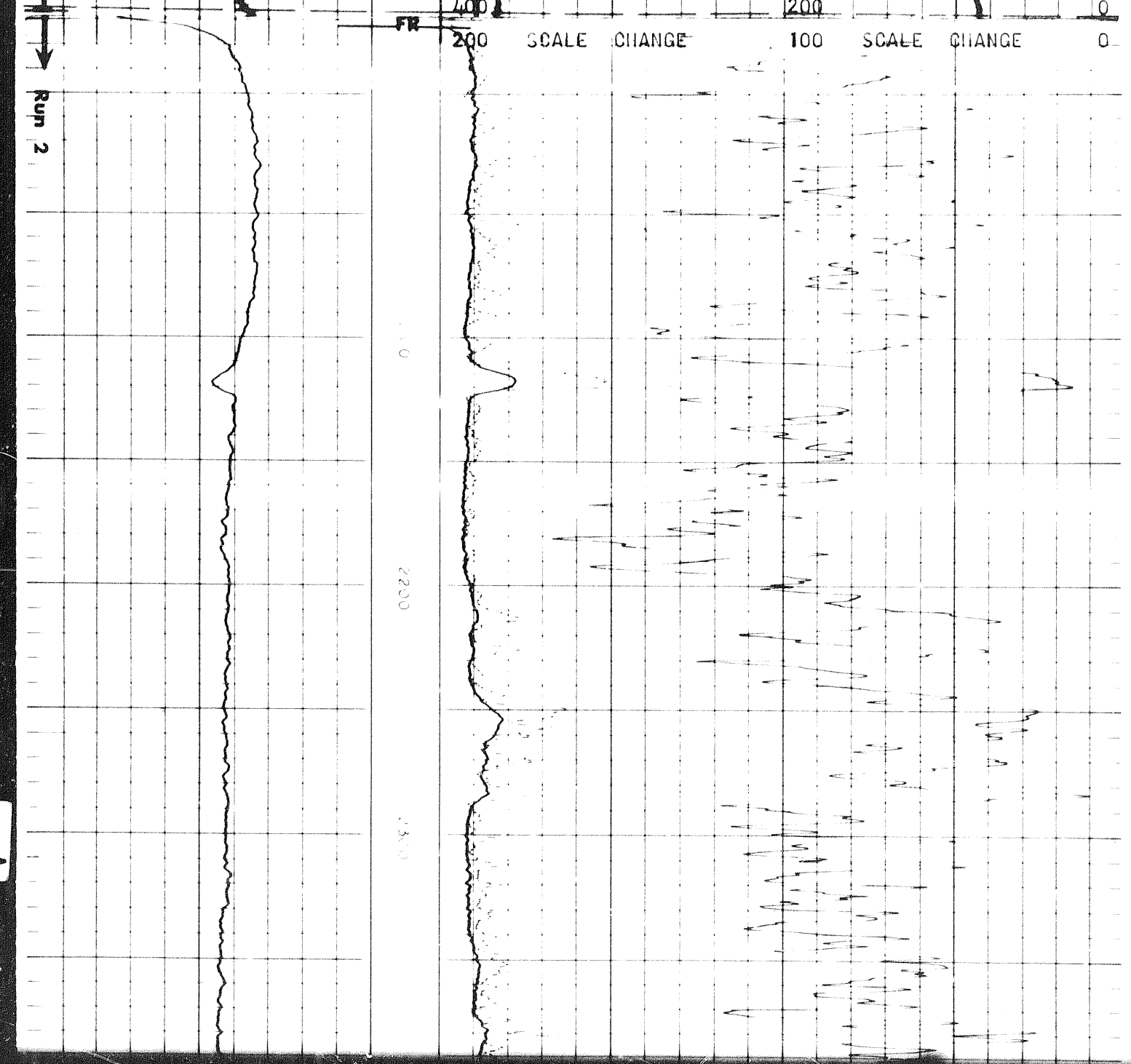
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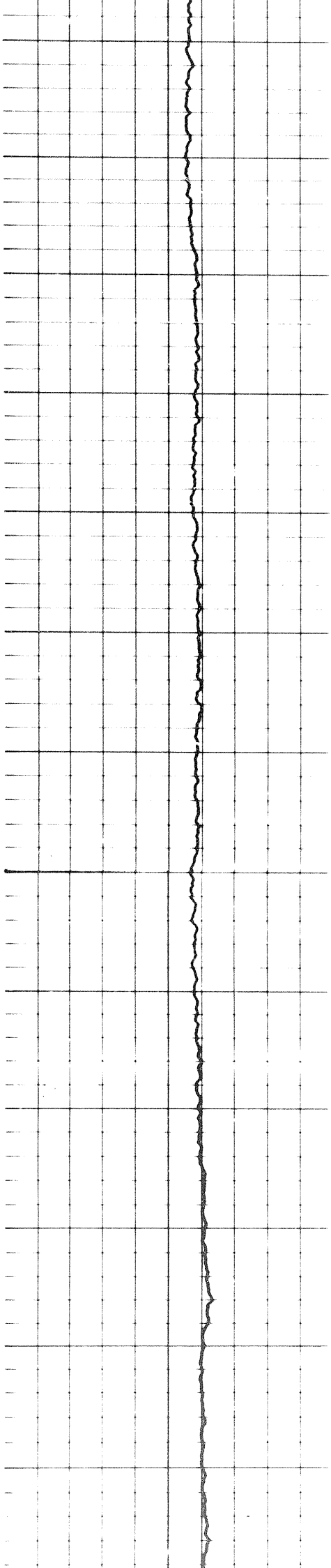
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2300

2300

2400





2400

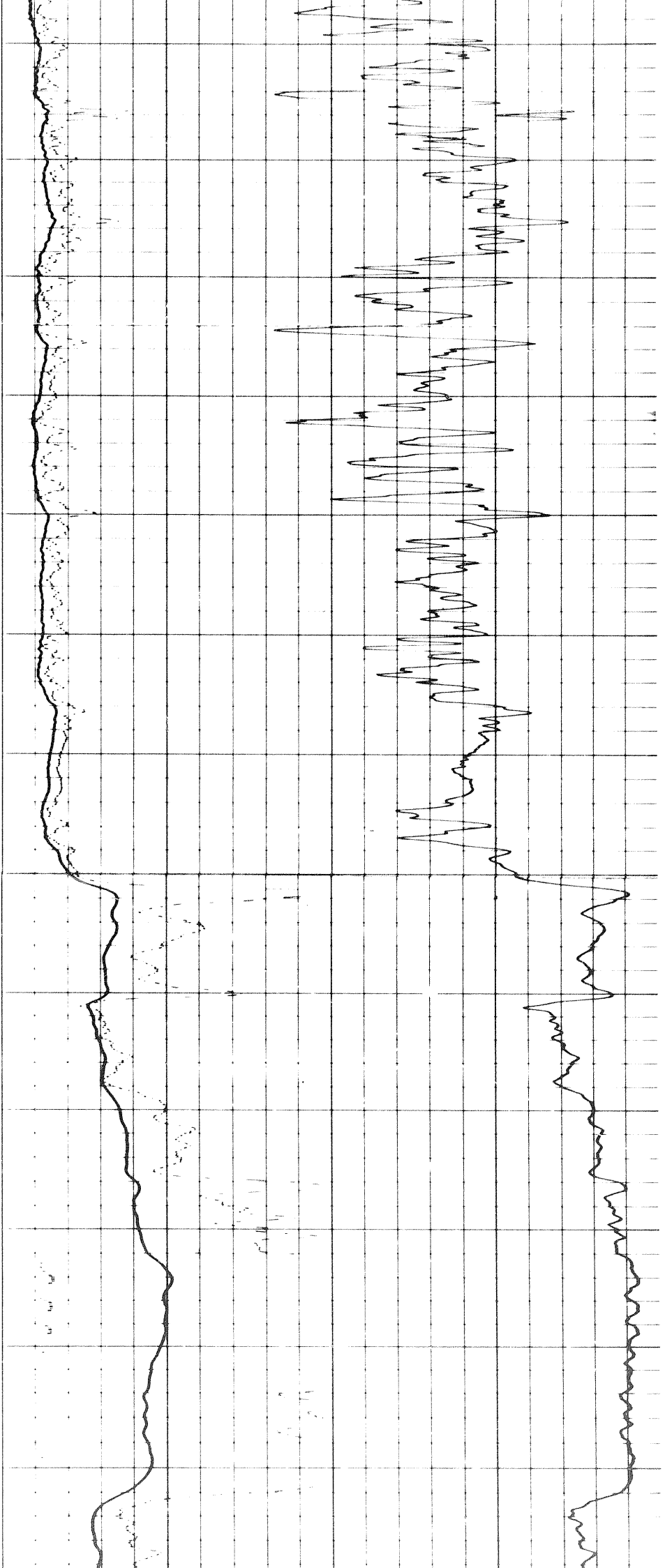
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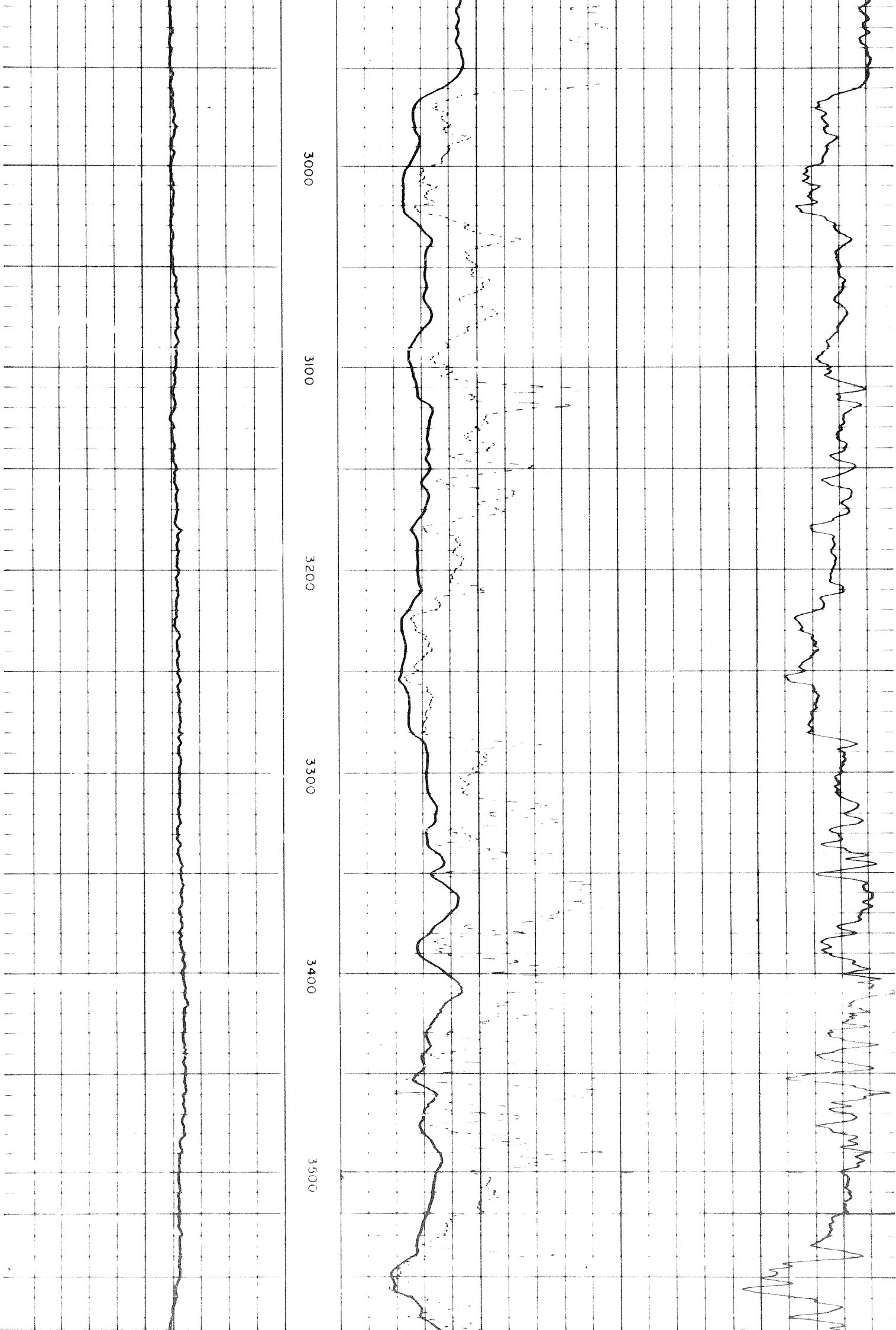
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2700

2800

2900





not

1

3500



7

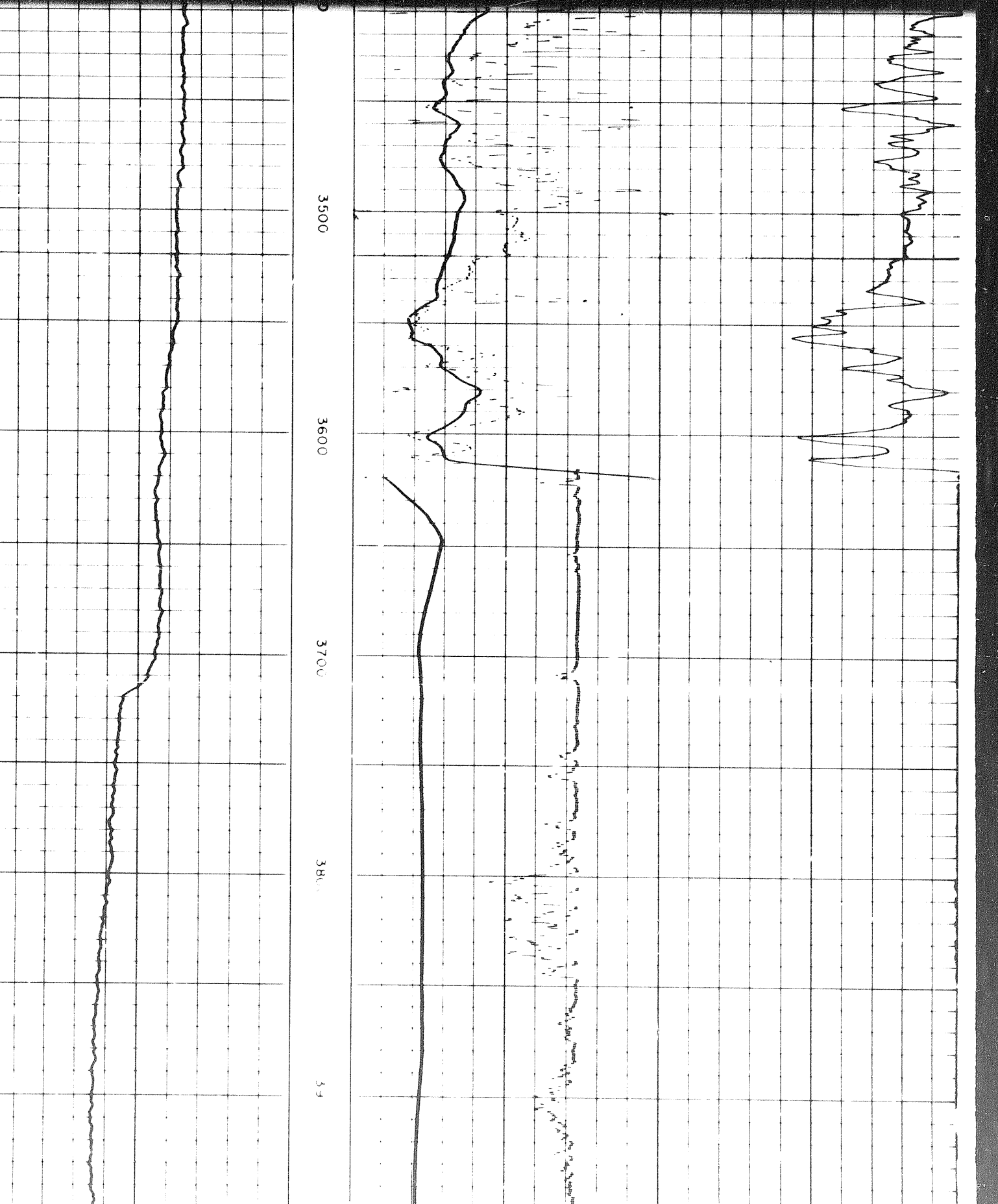
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3600

3700

3800

39



1

3900

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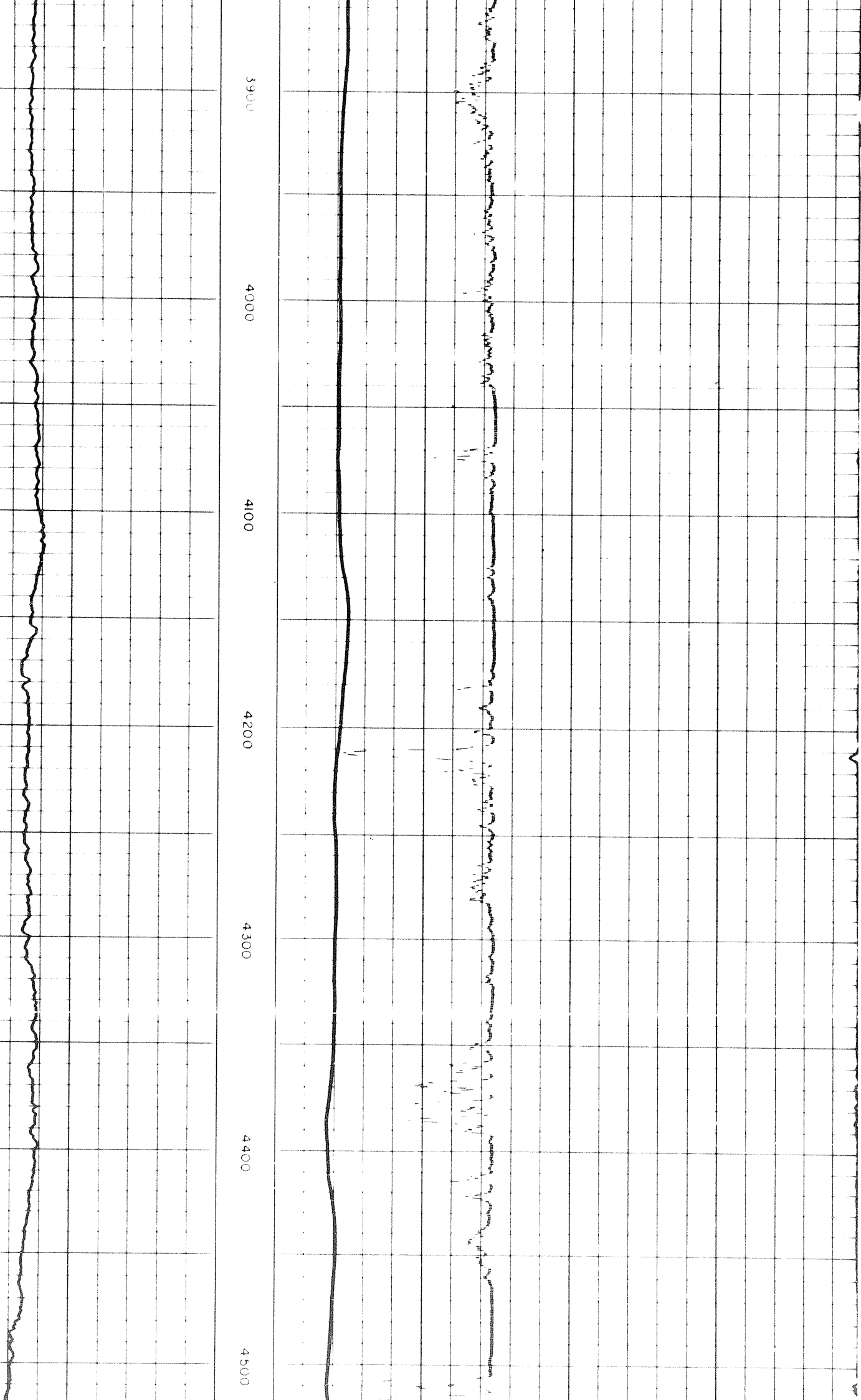
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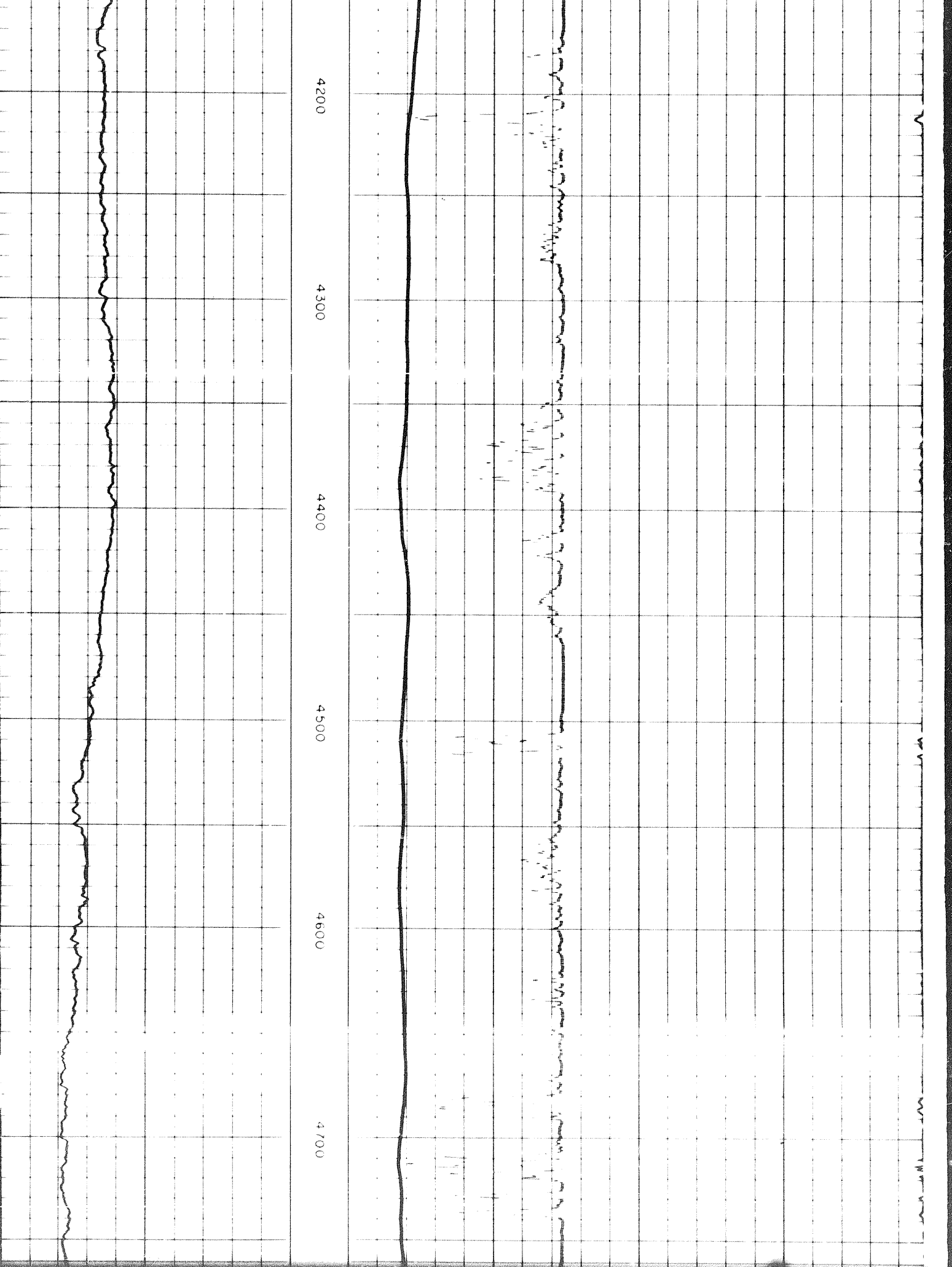
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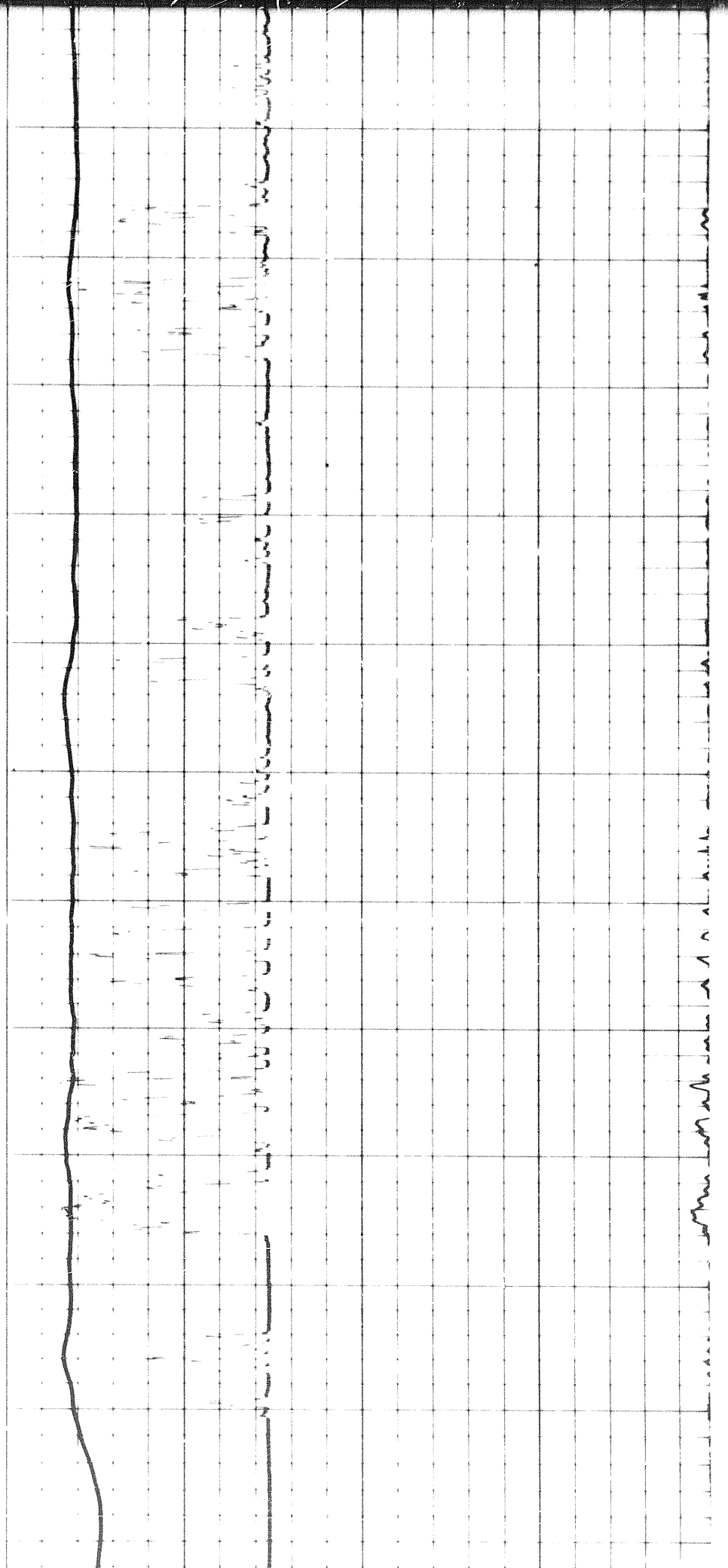
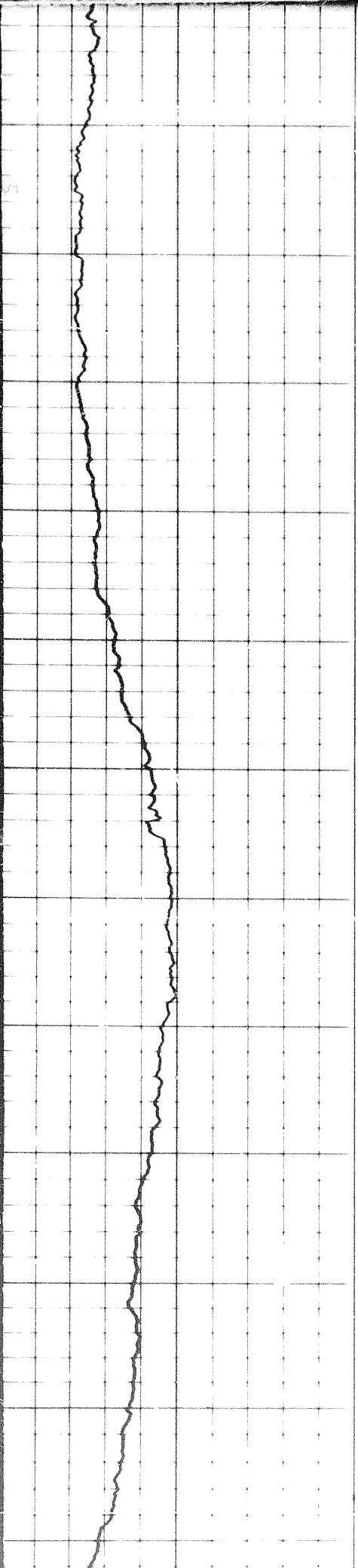
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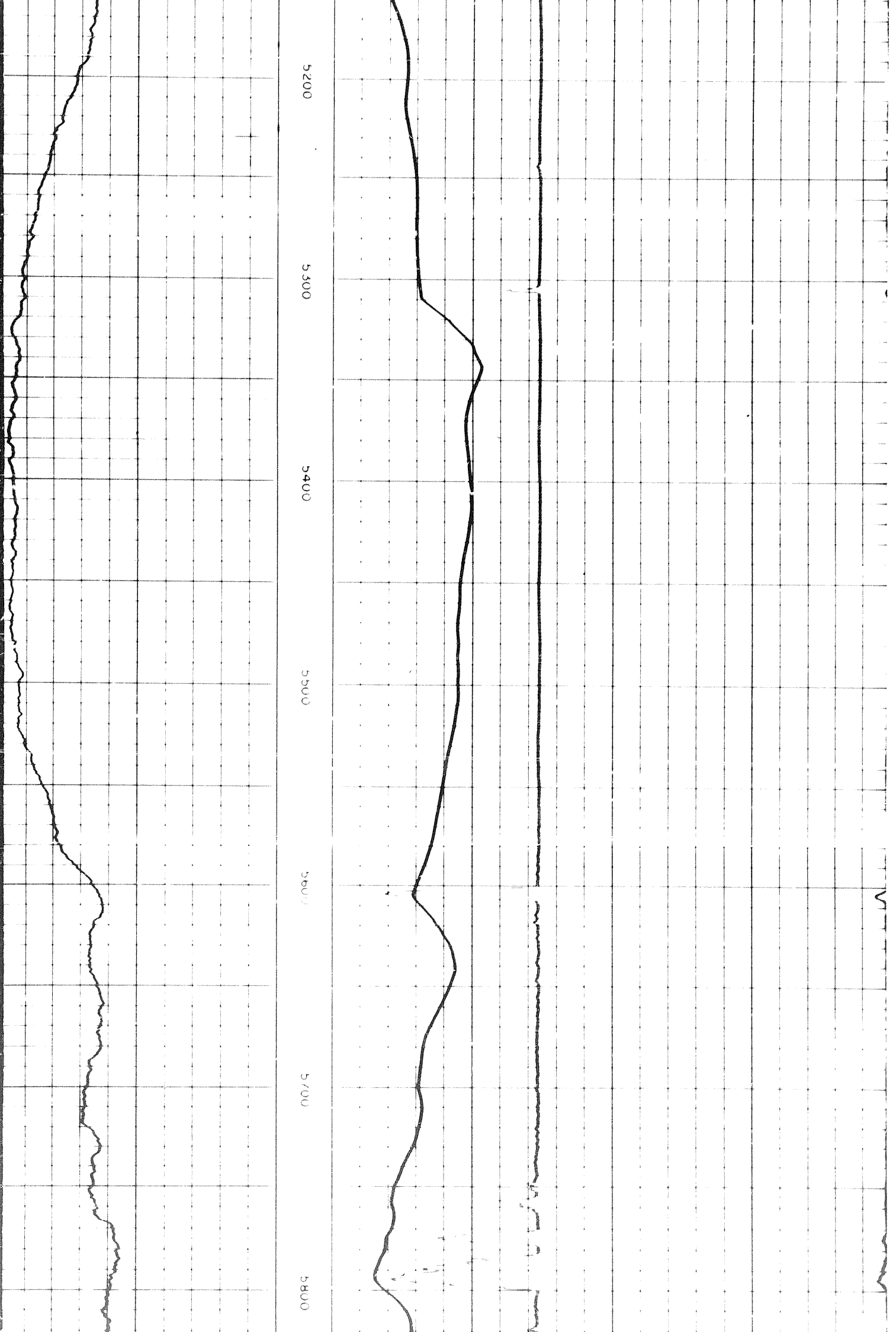
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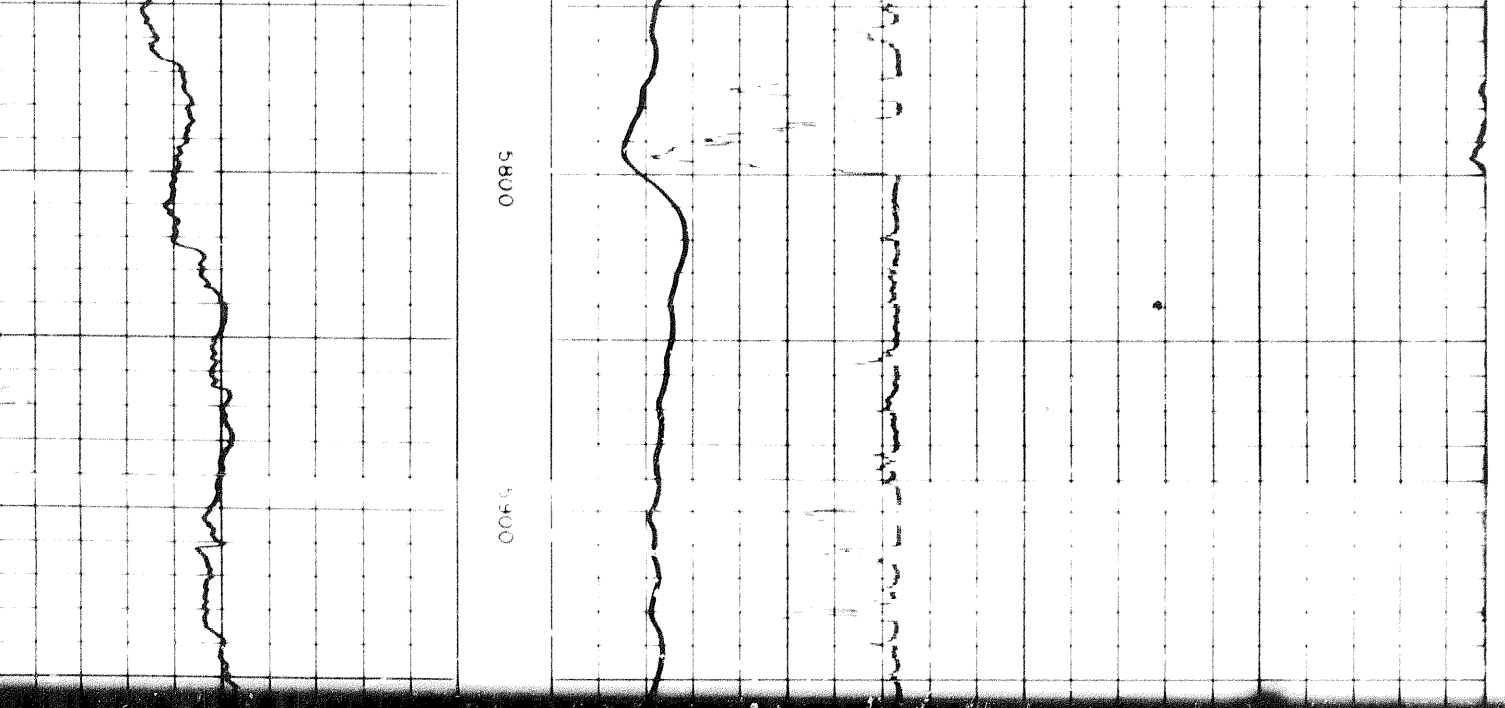


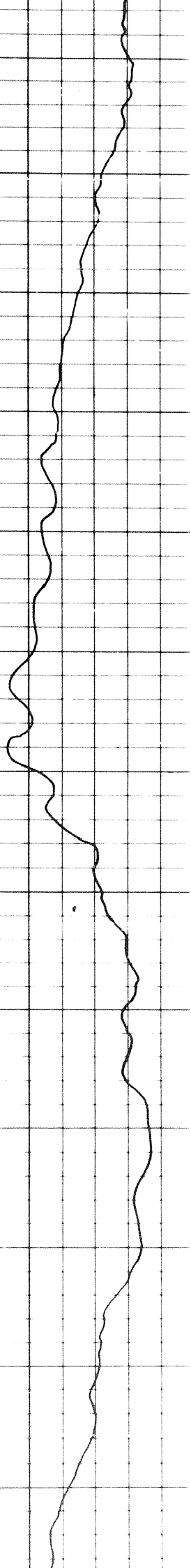
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2

Run 2

Run





6200

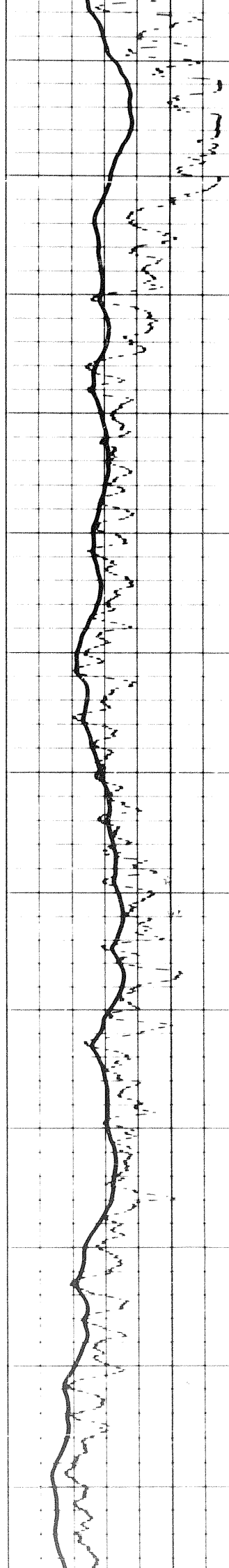
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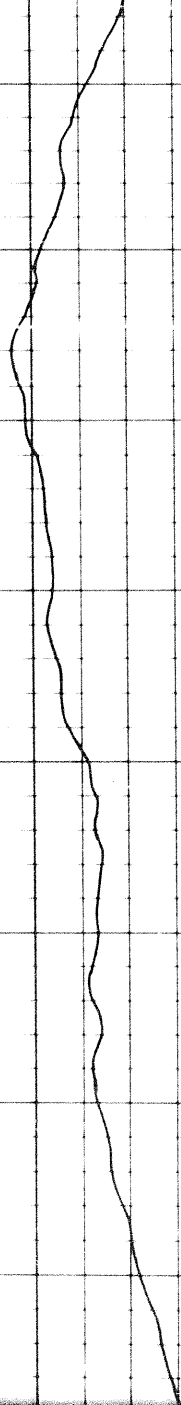
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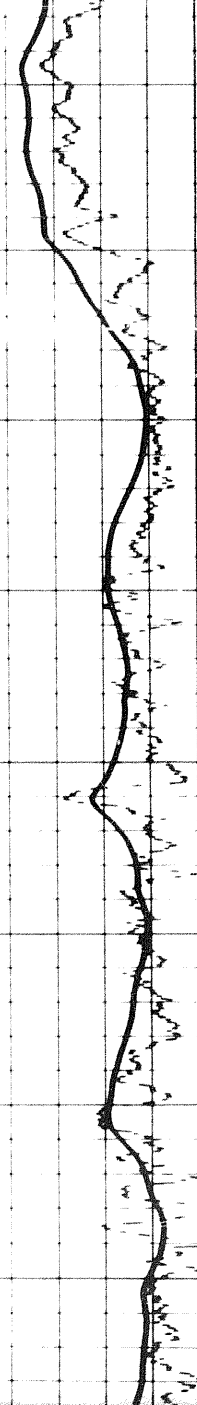


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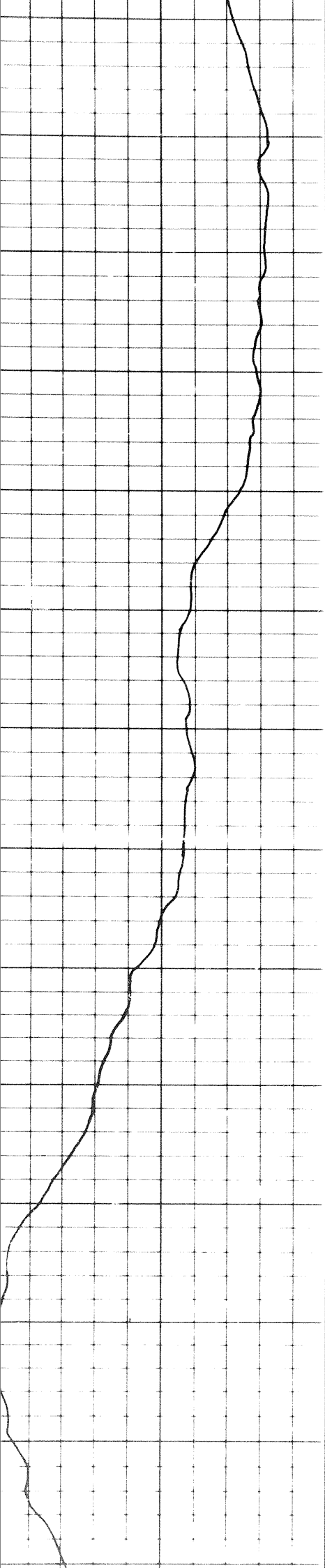
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0007

0017





7100

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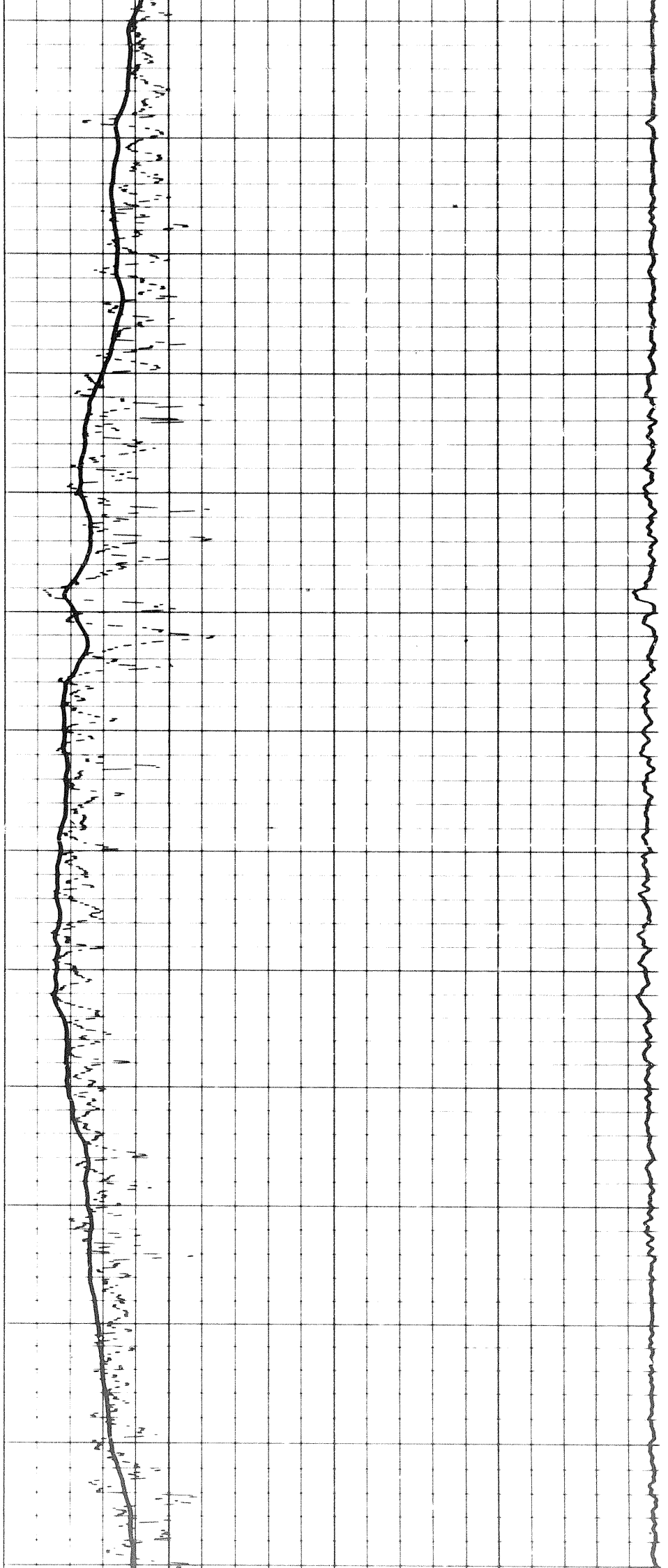
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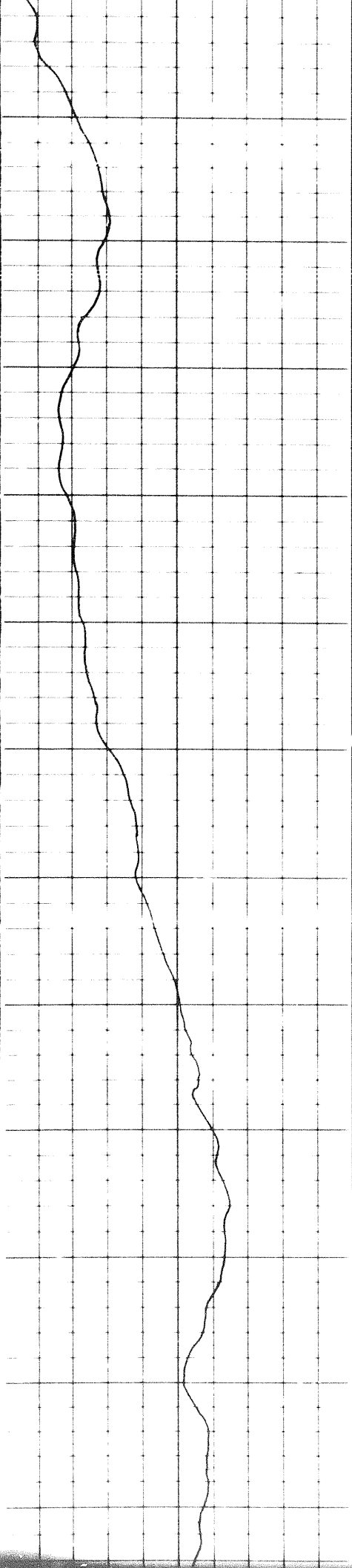
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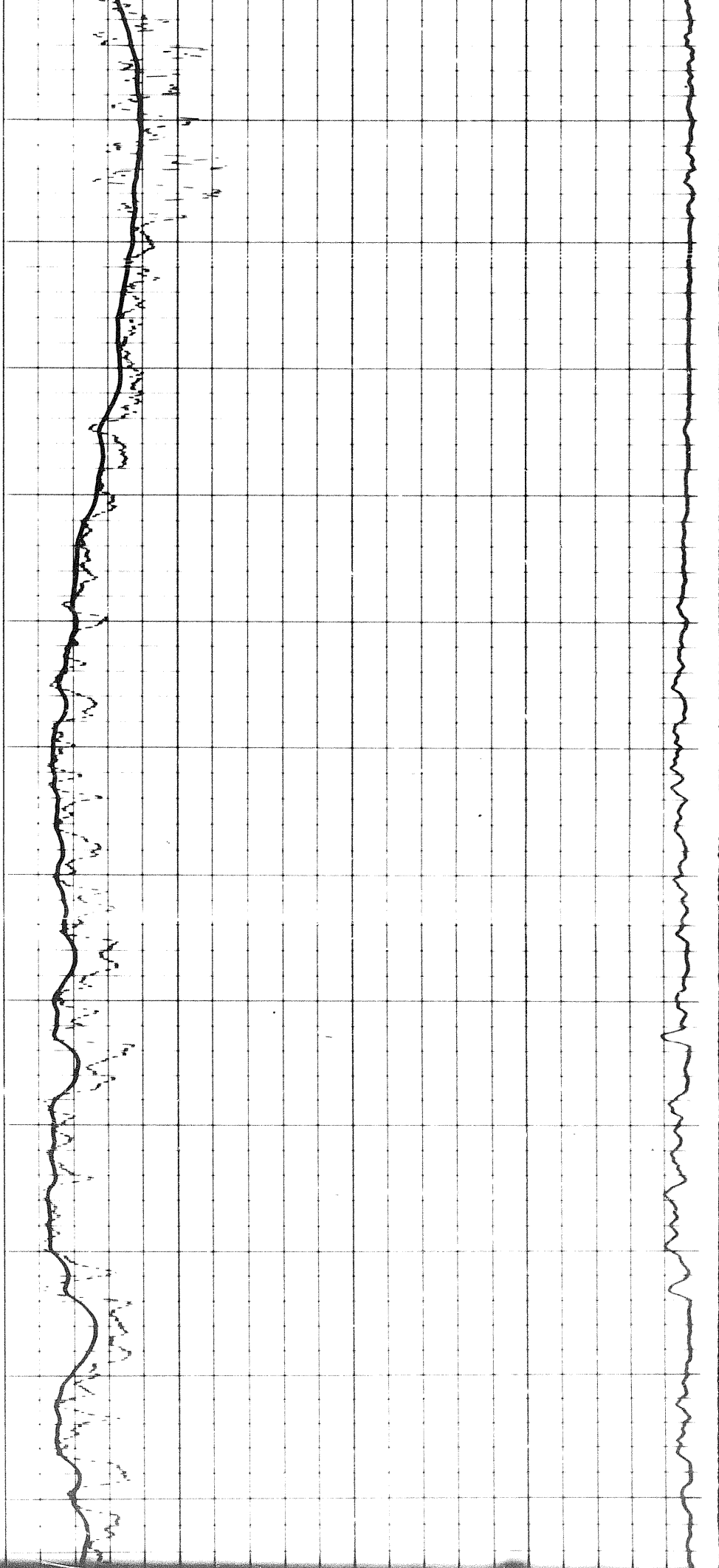
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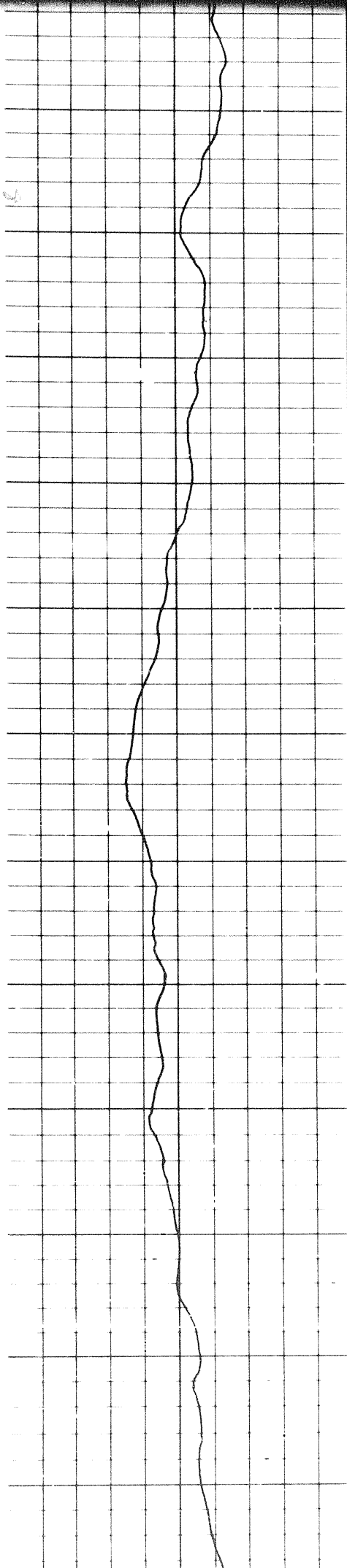


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8200

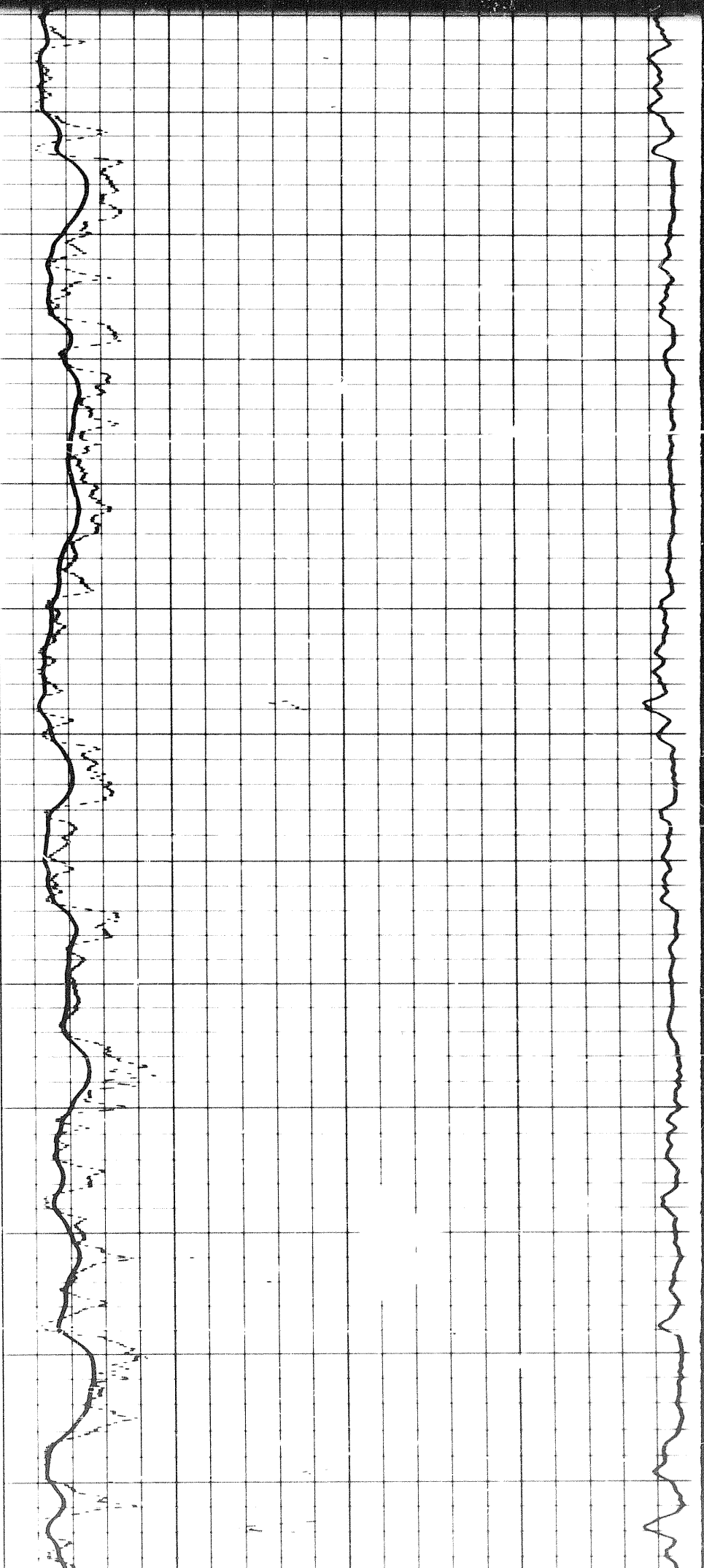
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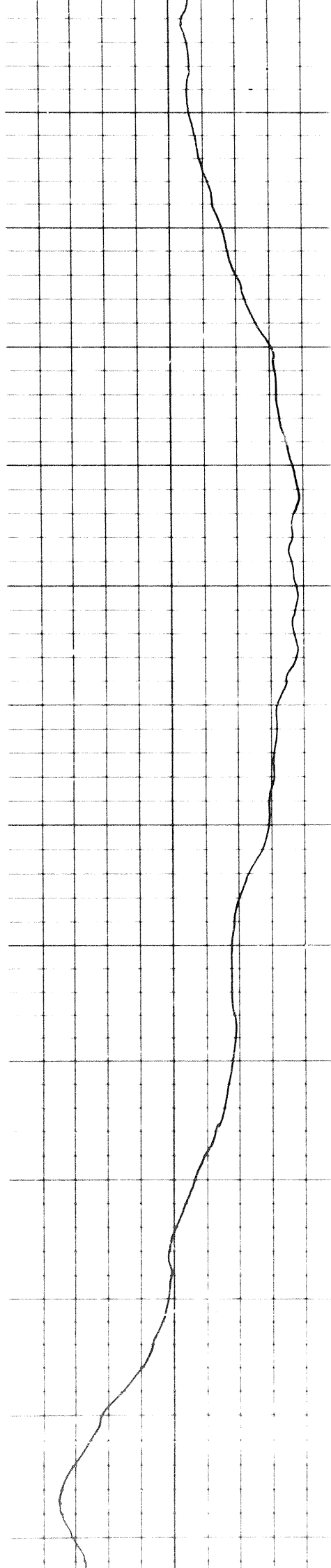
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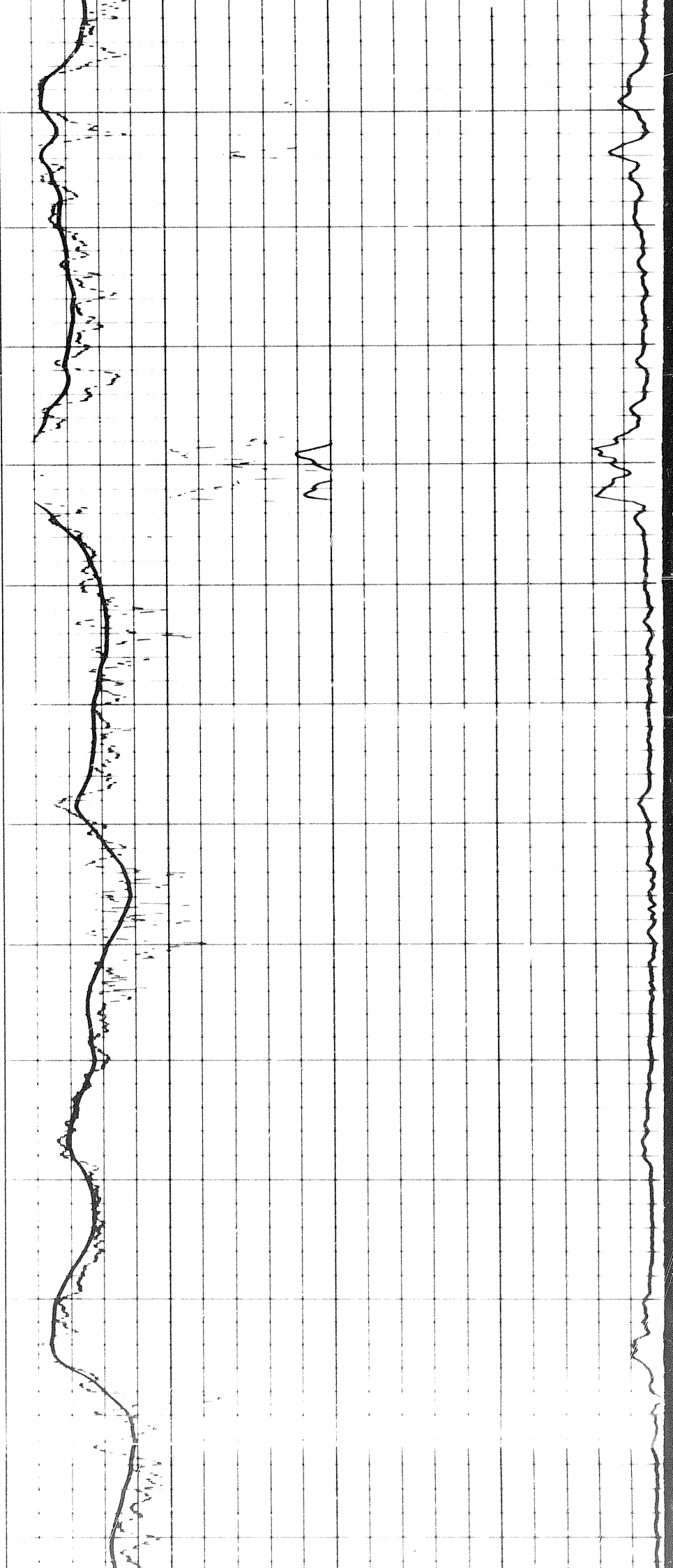
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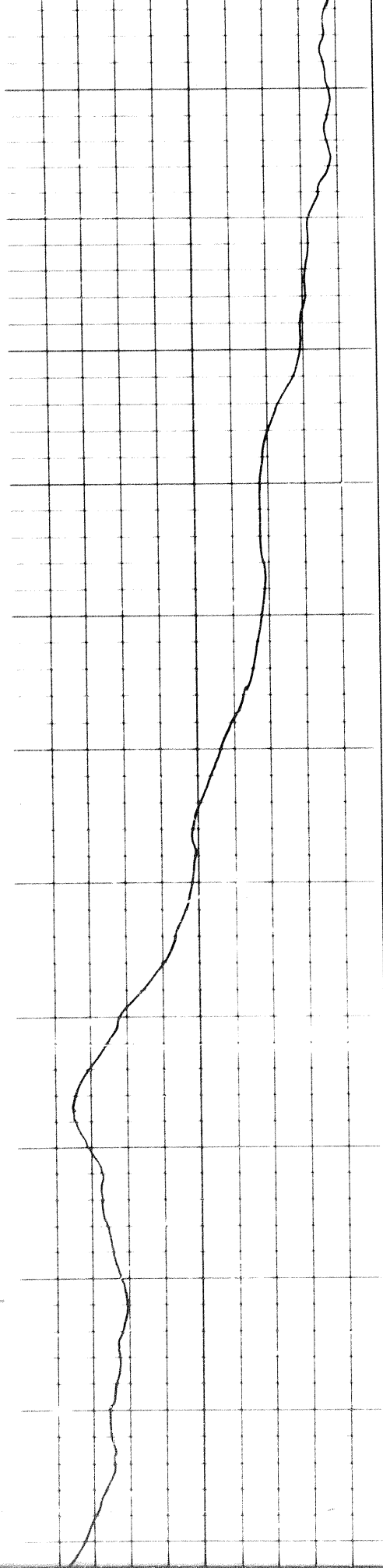




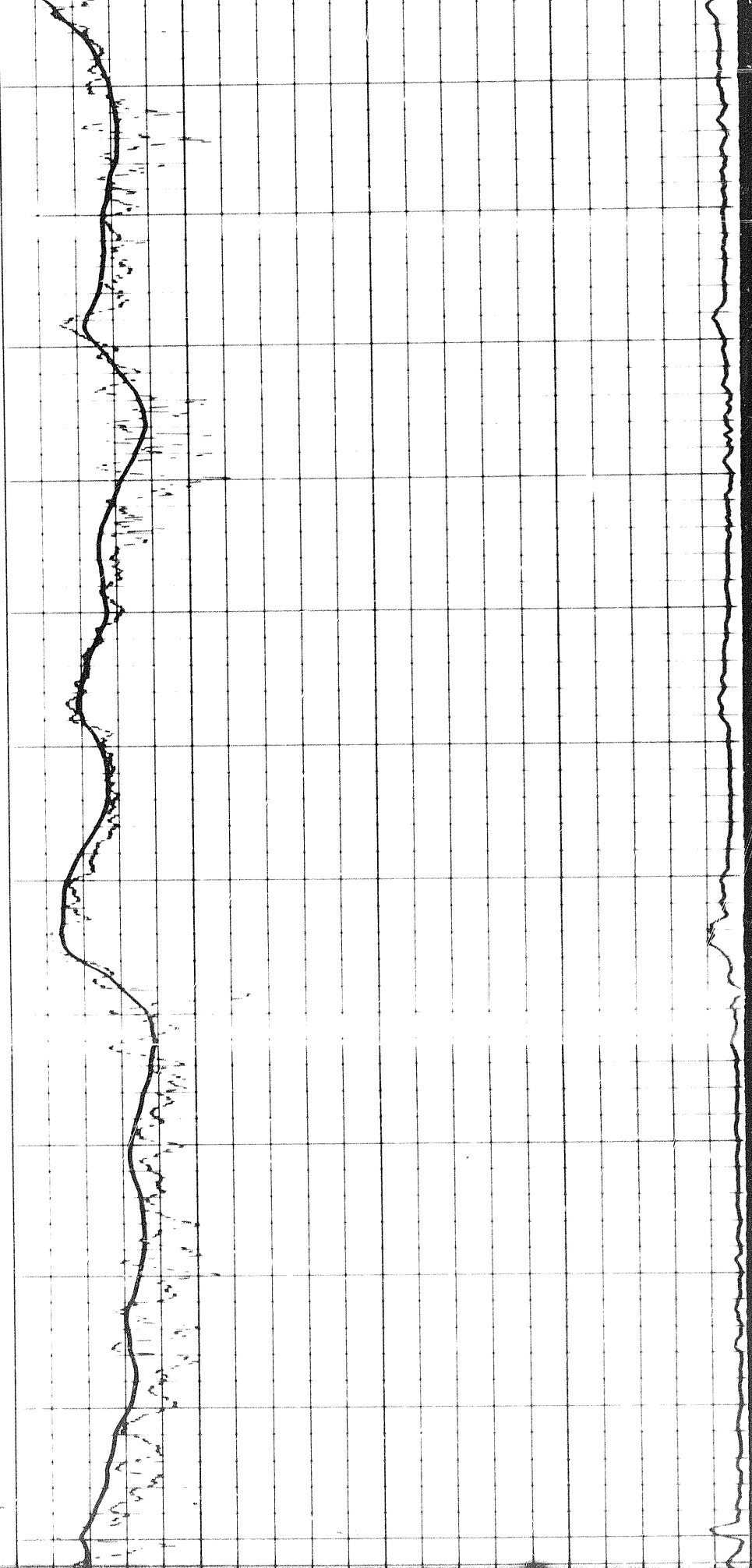
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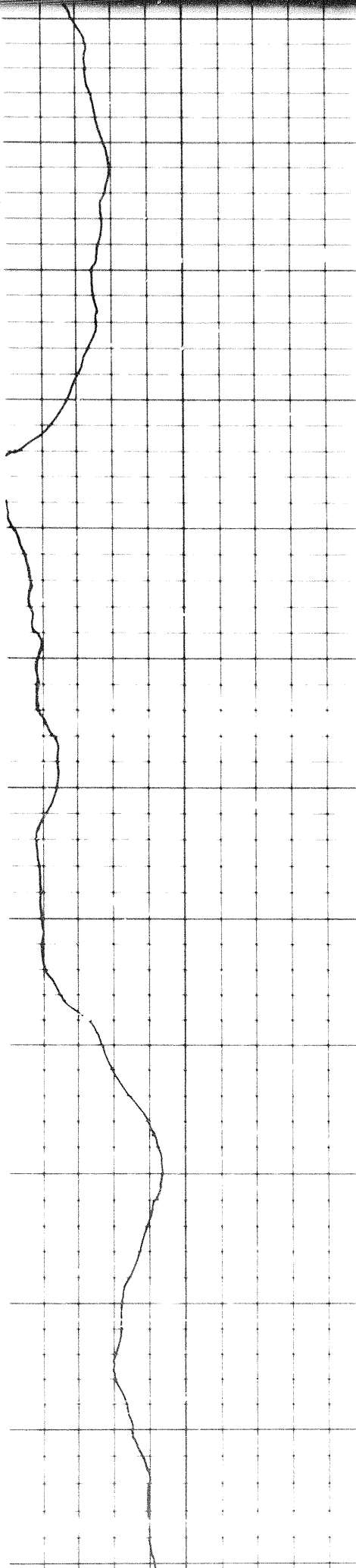


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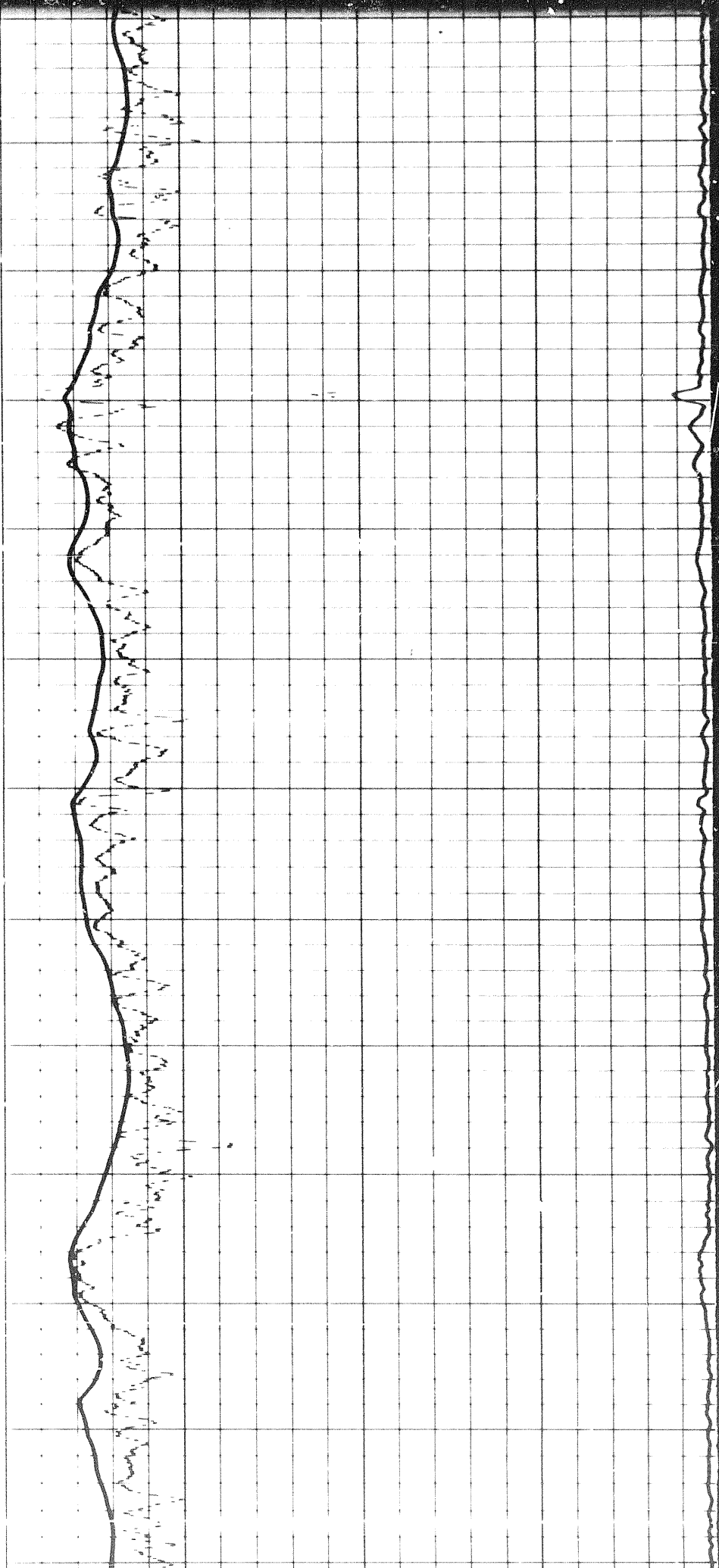
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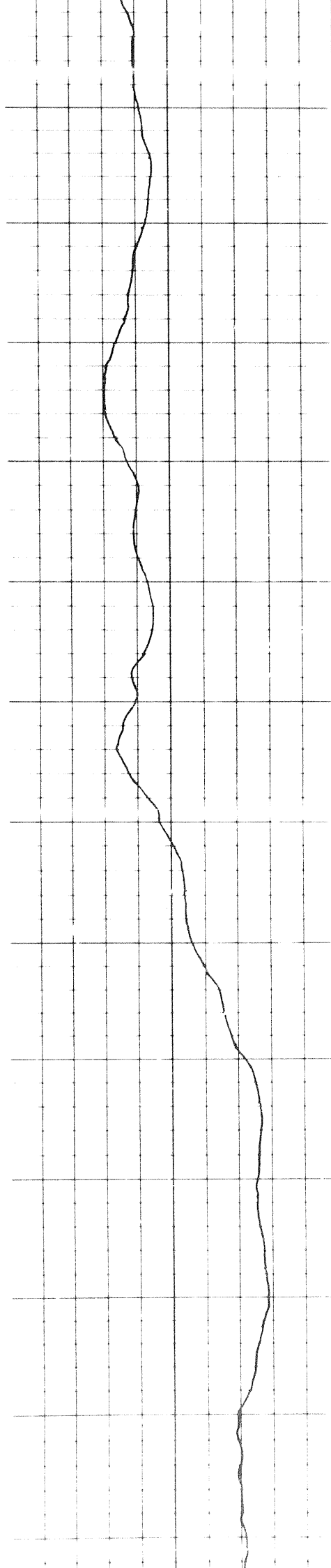
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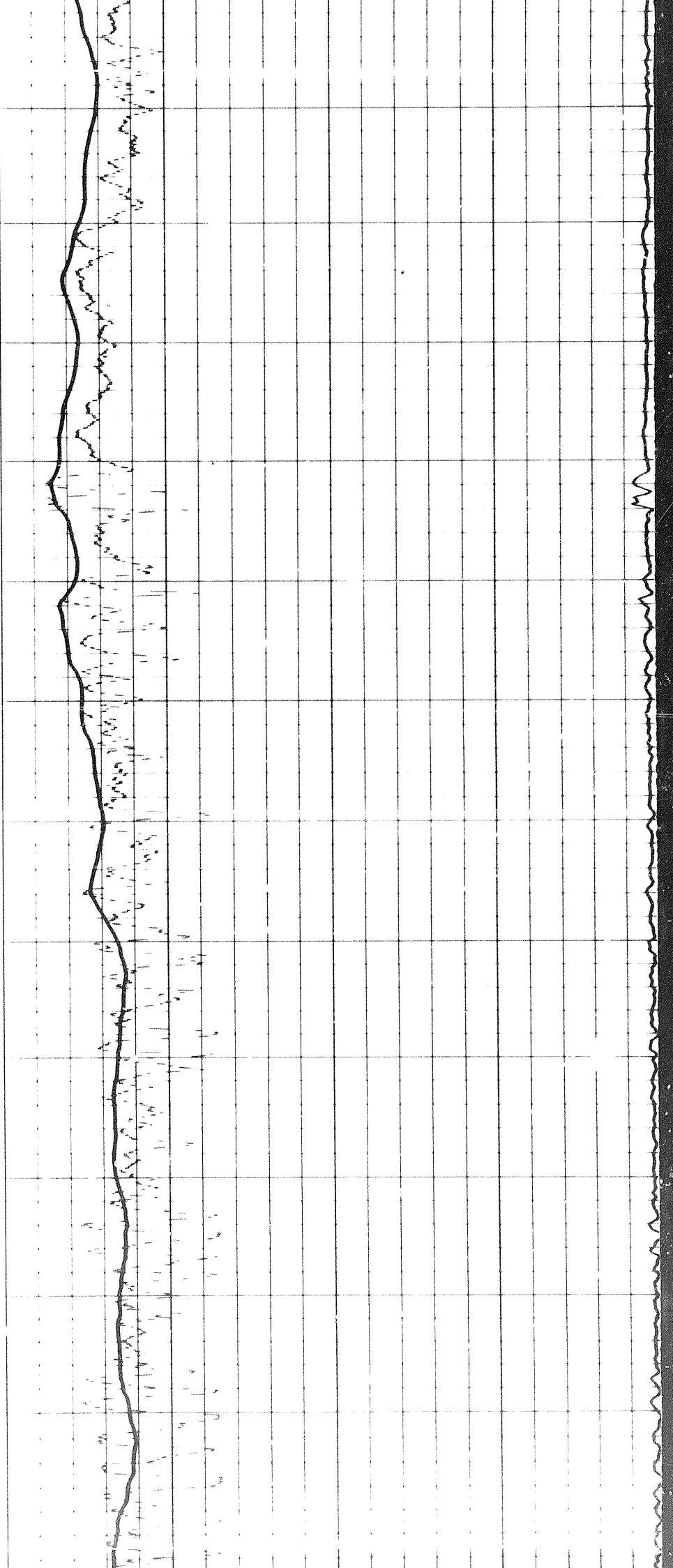
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9900





0 10000 10100 10200 10300 10400 10500



107

10500

10600

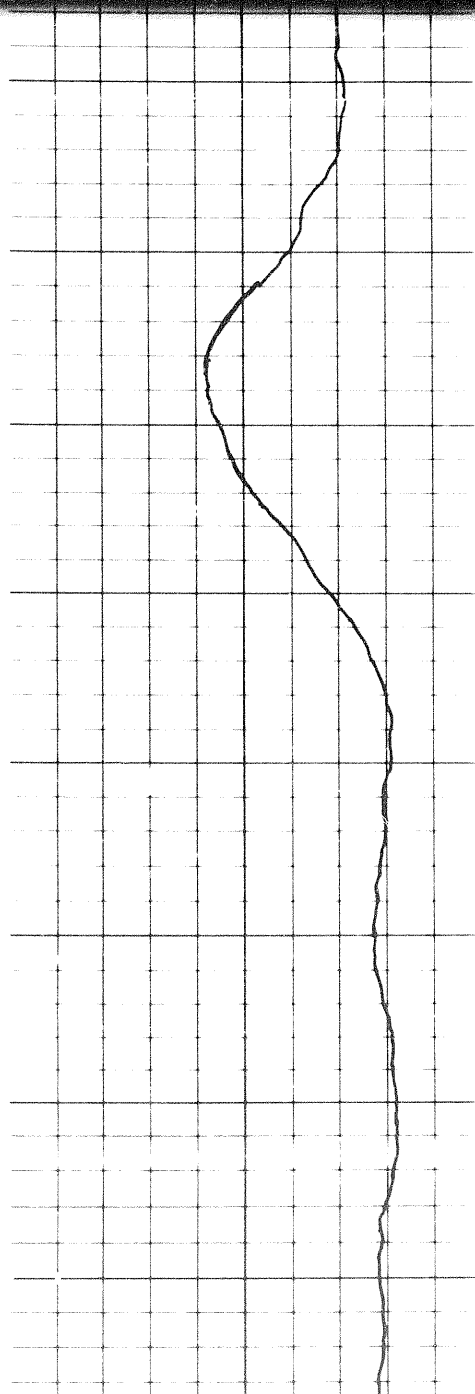
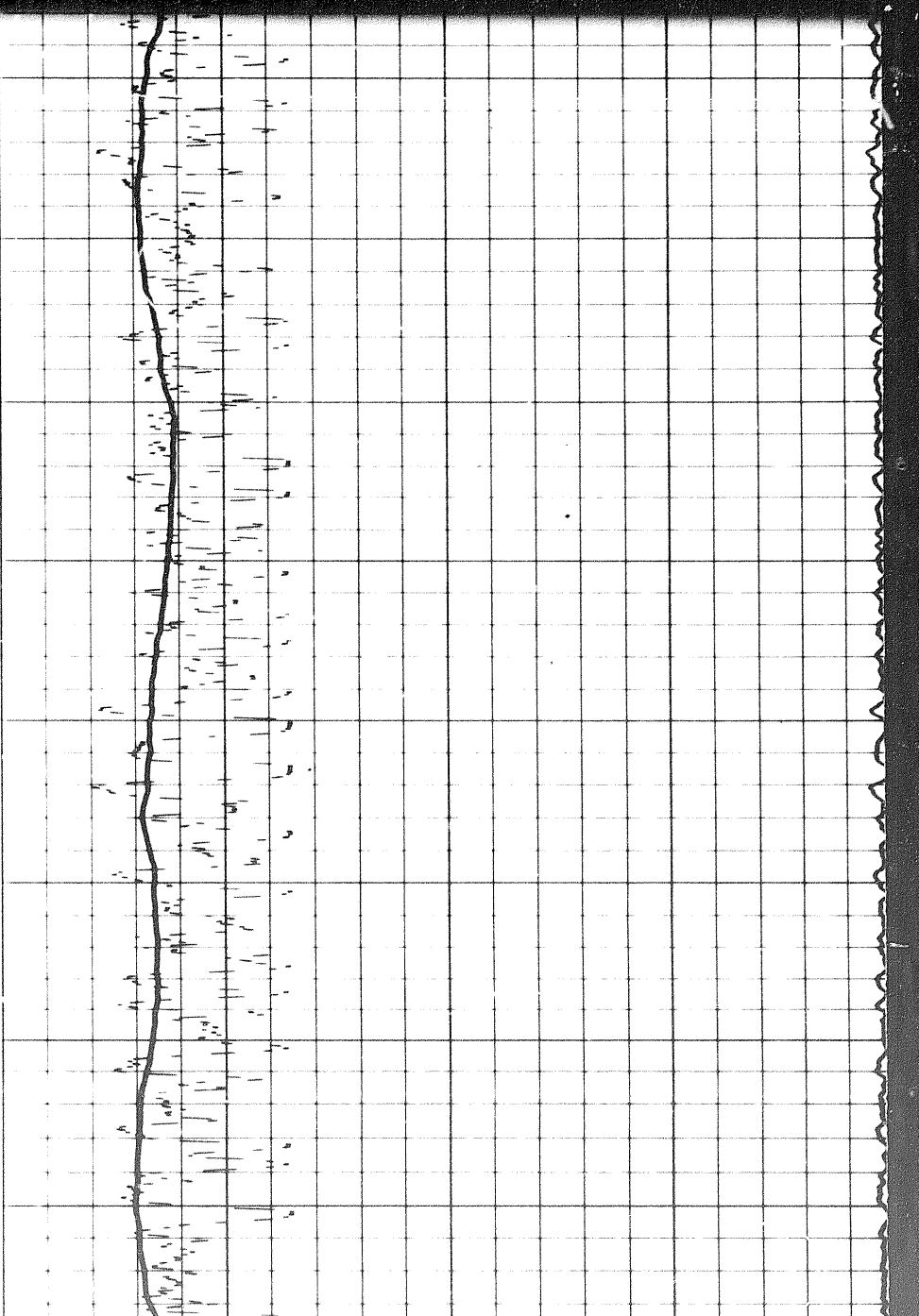
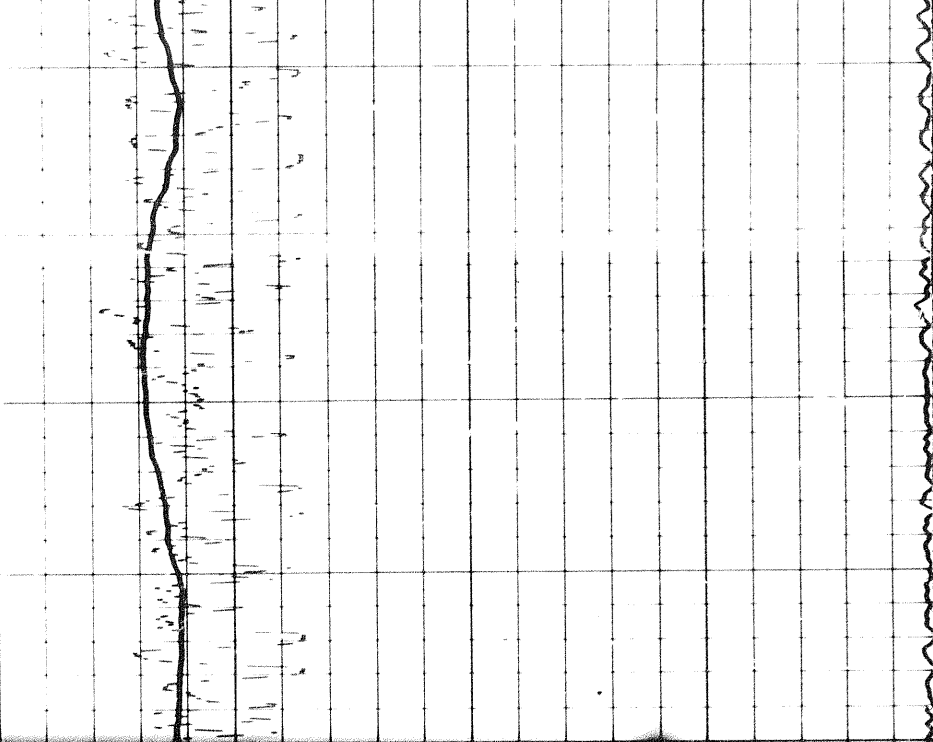
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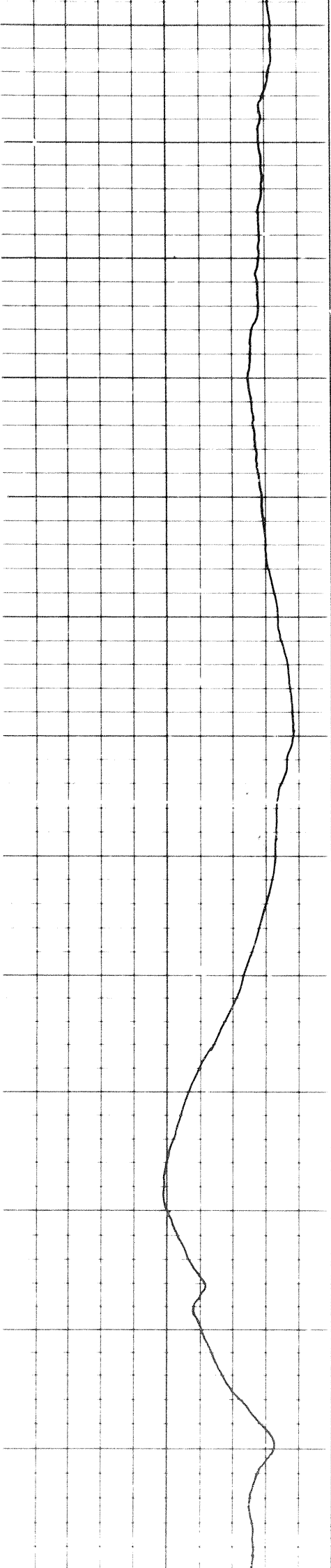
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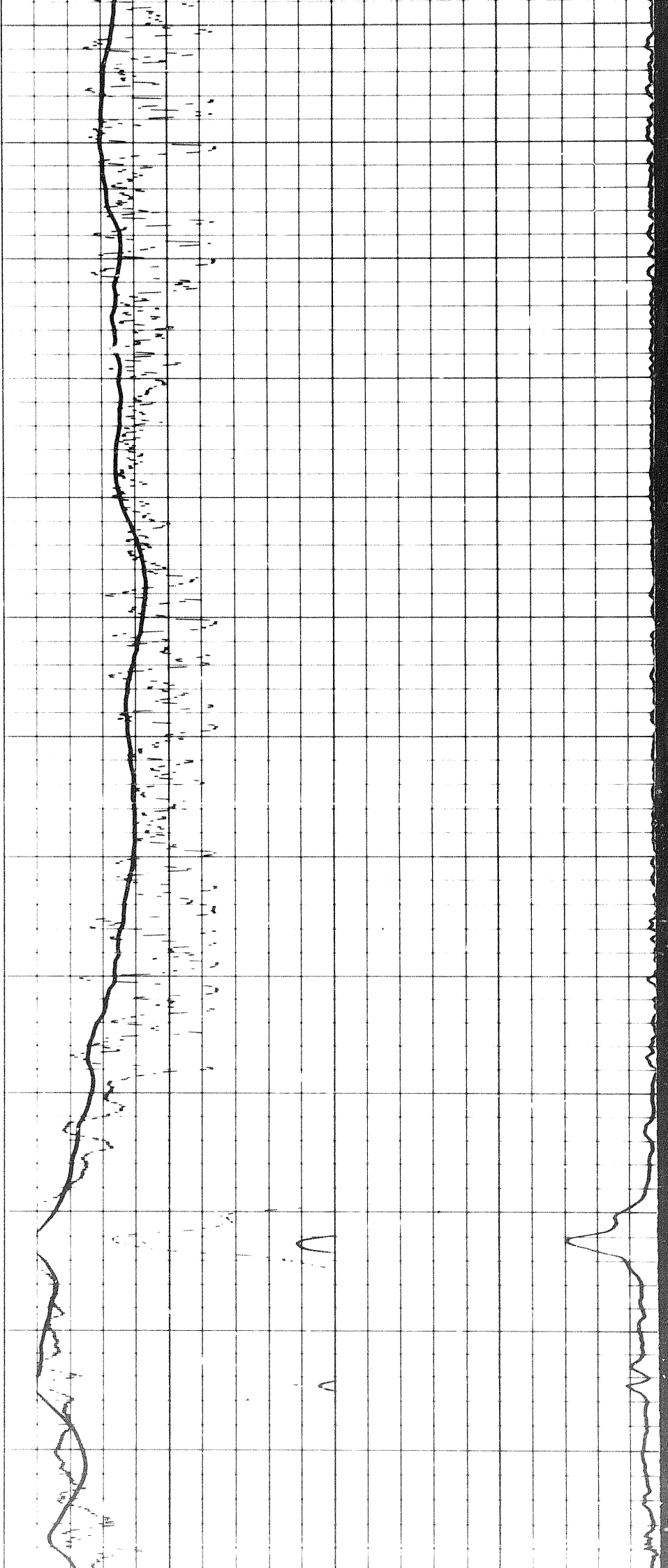
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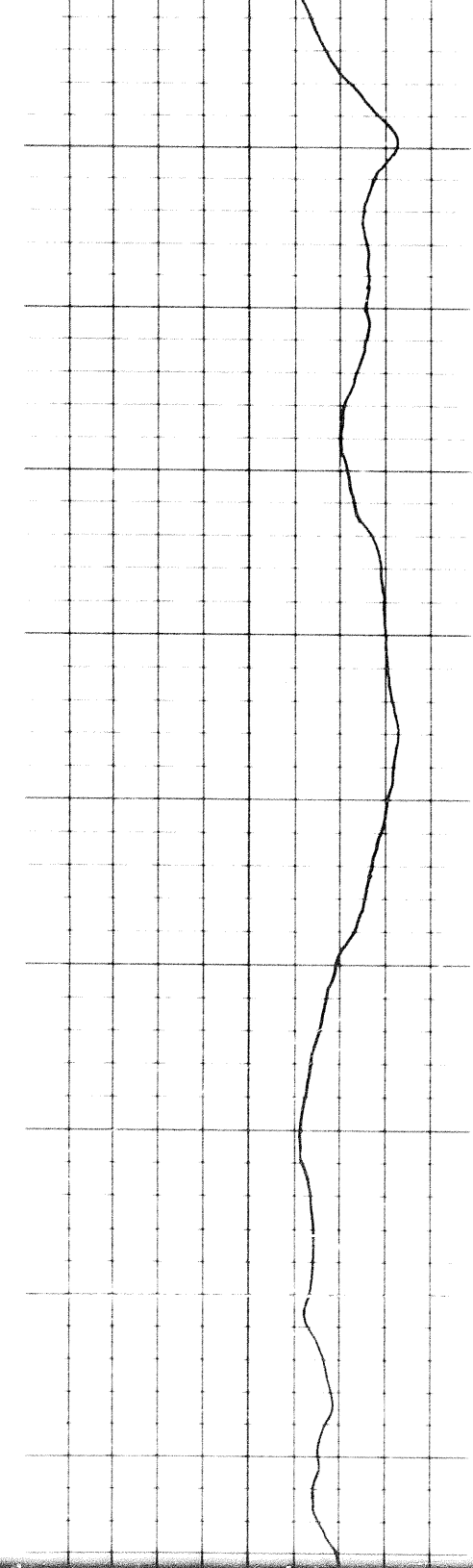
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115



21

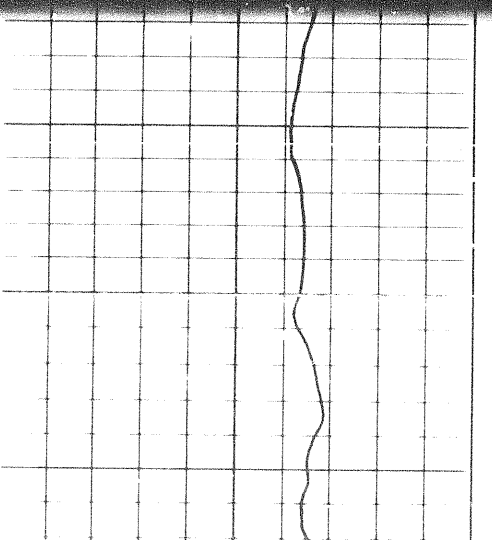
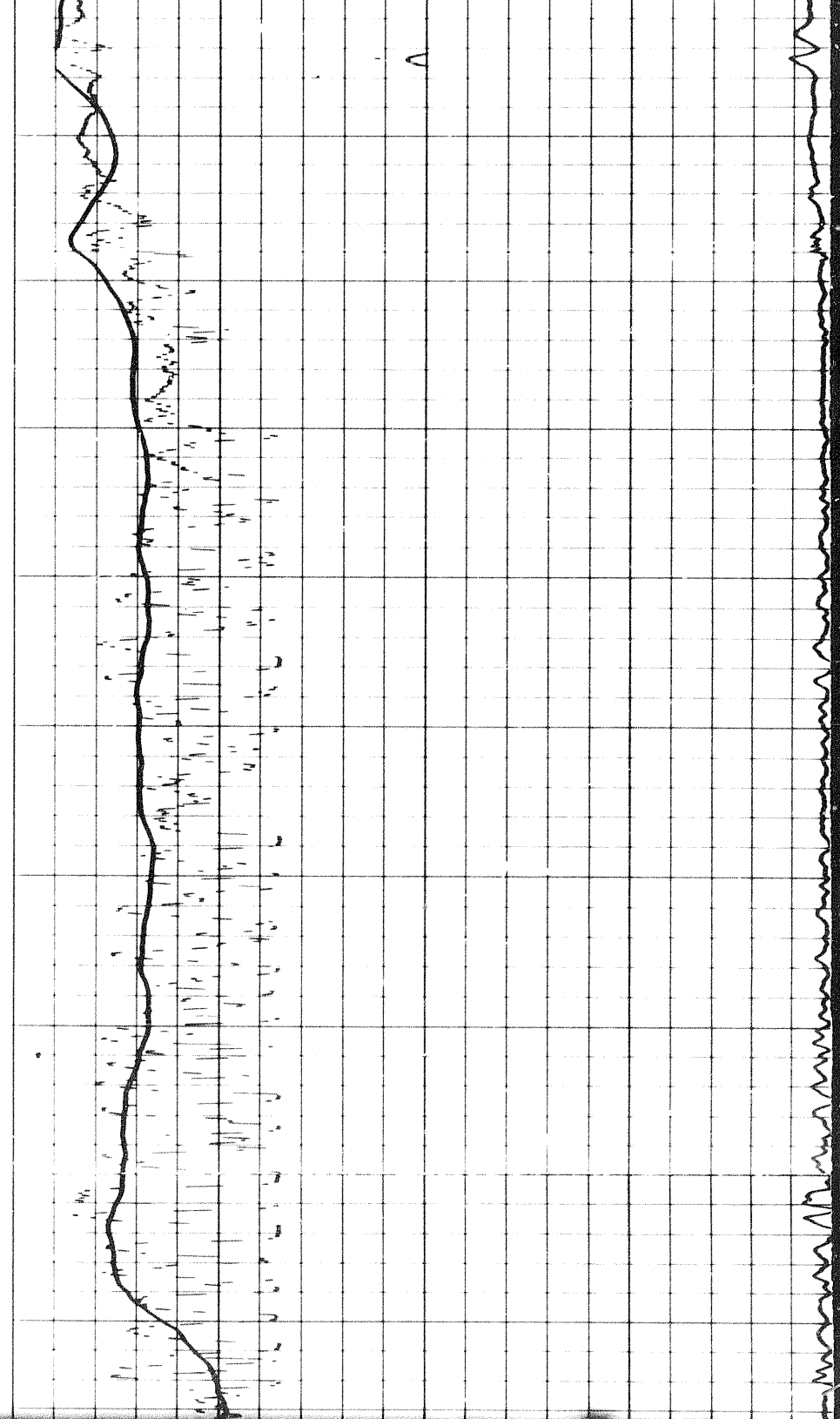


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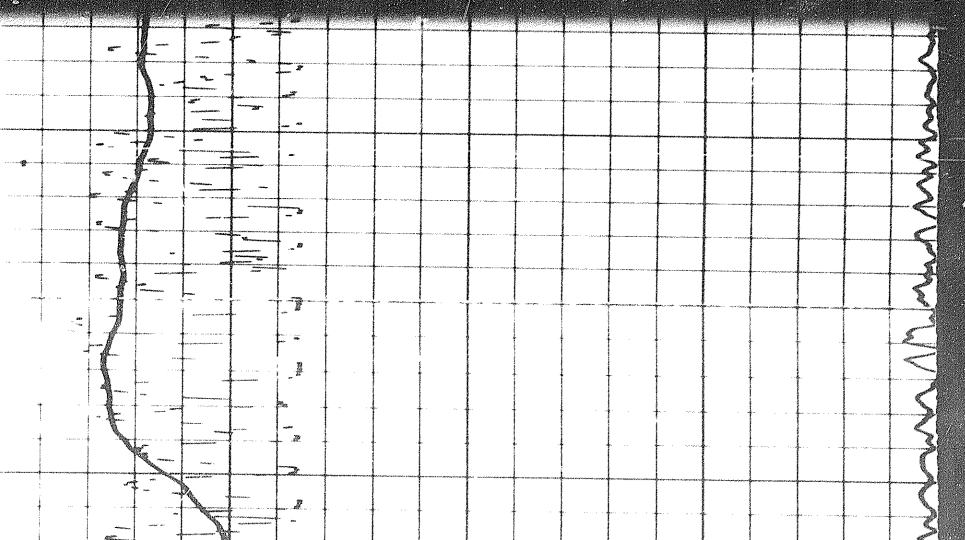
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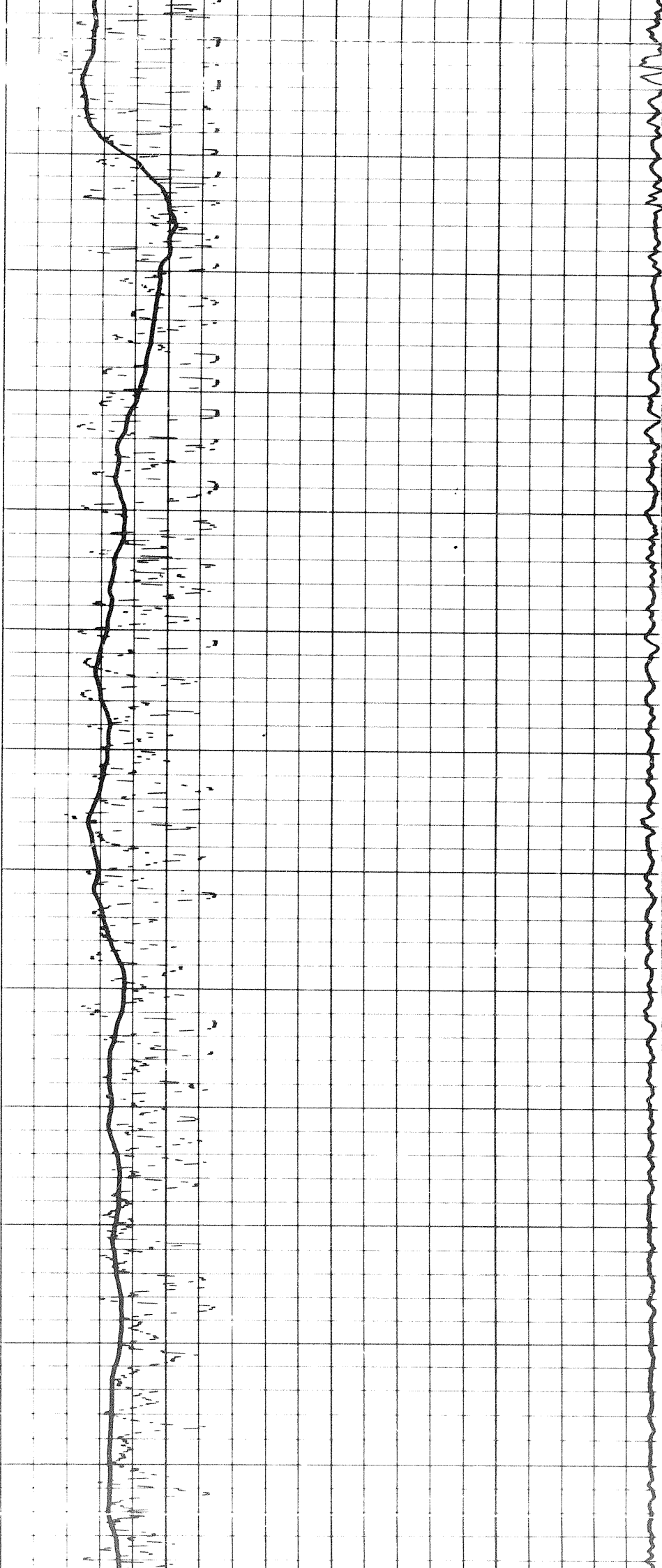
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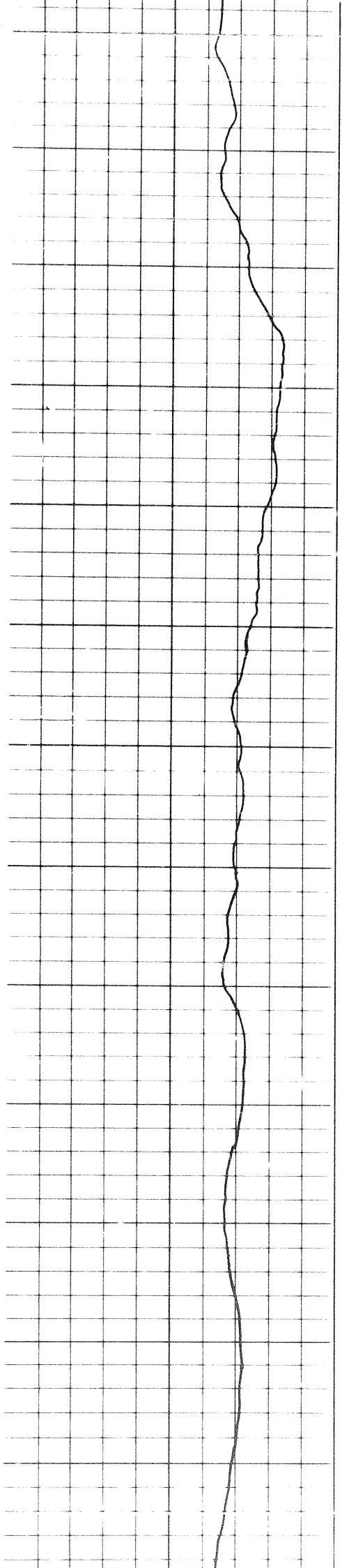


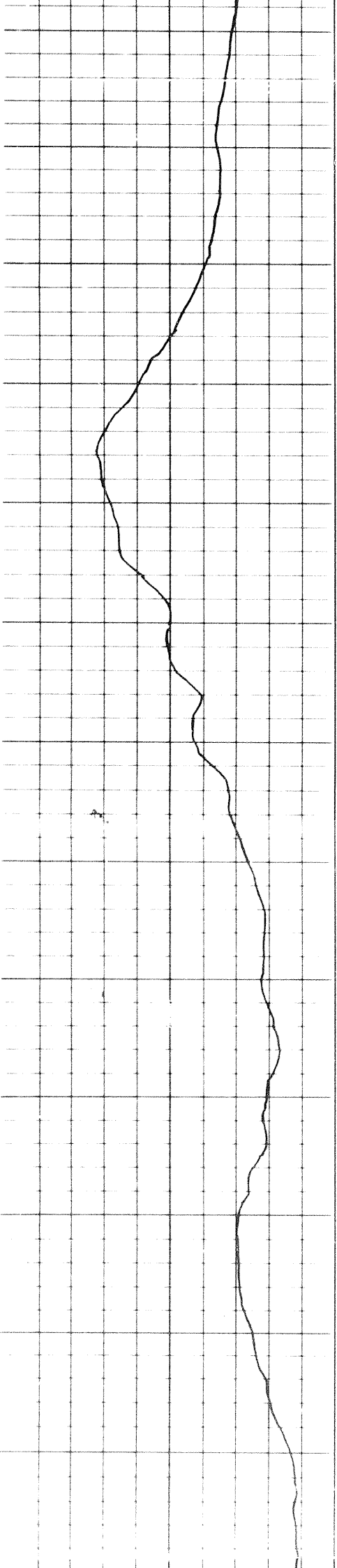
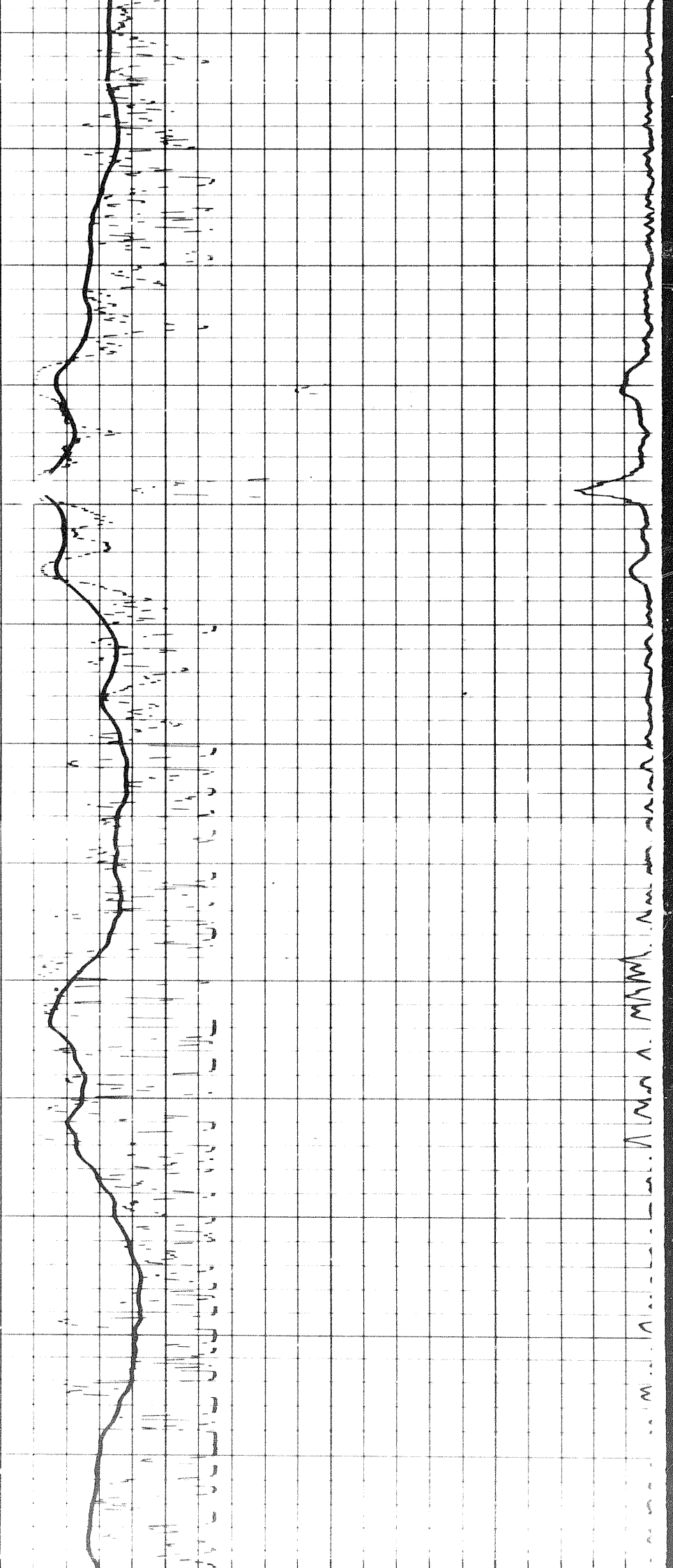
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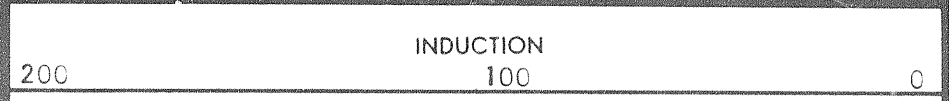
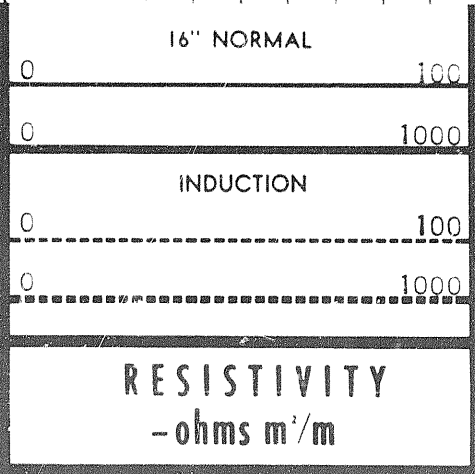
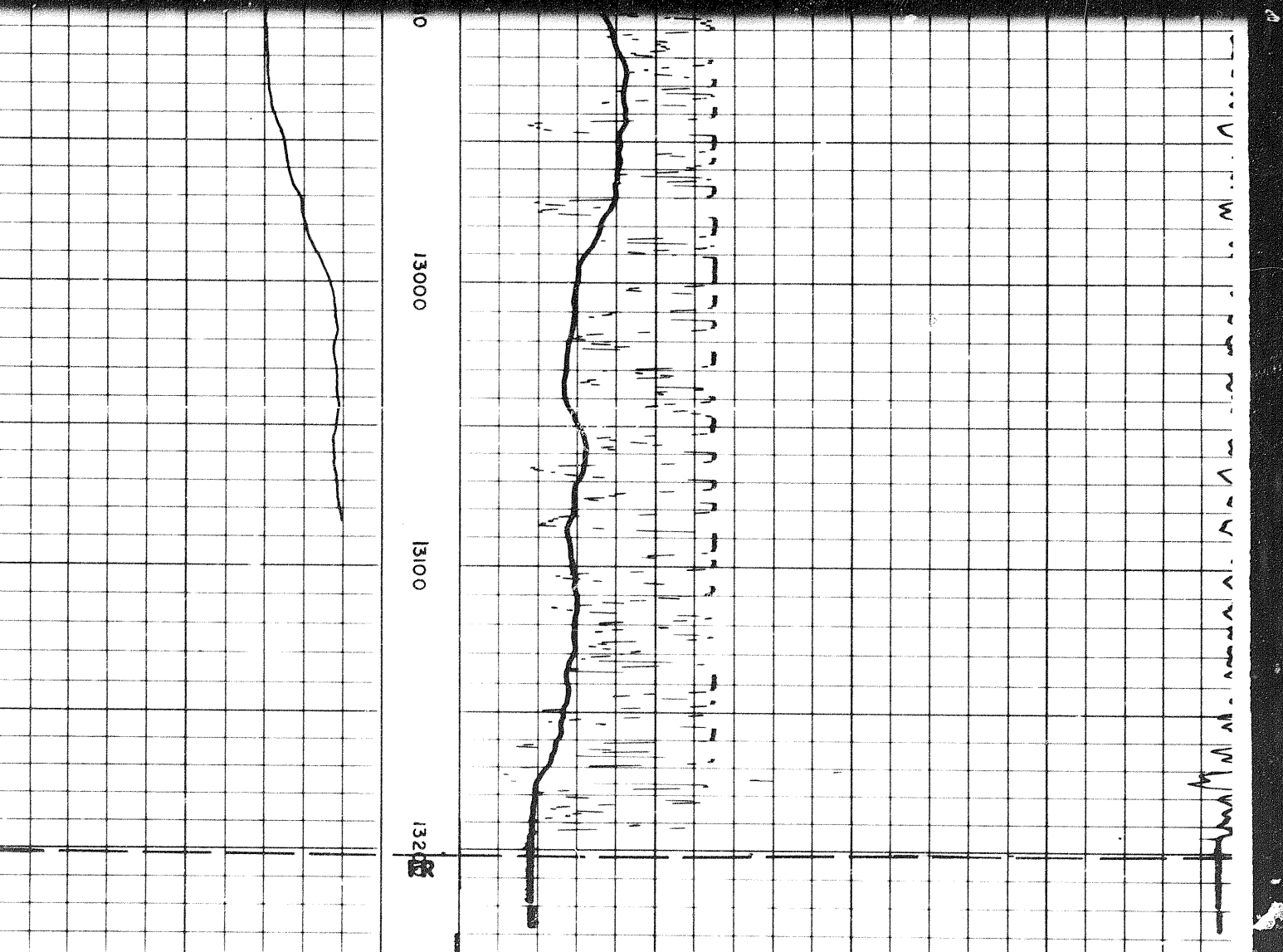
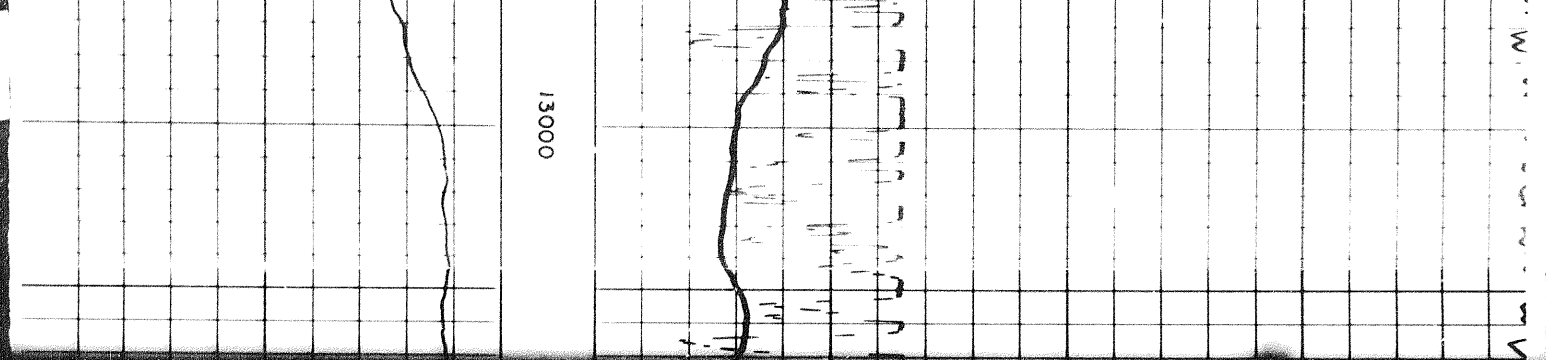
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12400 12500 12600 12700 12800 12900 13000

178



R01 #3

SP RECORDED WITH ES SONDE
REFERENCE ELECTRODE.
DOWN HOLE TRACED

20
↔

RUN #3

SP RECORDED WITH ES SONDE
REFERENCE ELECTRODE.
DOWN HOLE TRACED

20



RESISTIVITY
- ohms m²/m

200

INDUCTION

100

0

SPONTANEOUS-POTENTIAL
millivolts

DEPTHS

CONDUCTIVITY
millimhos /m = $\frac{1000}{\text{ohms m}^2/\text{m}}$

DETAIL LOG

5" = 100'

SPONTANEOUS-POTENTIAL
millivolts

DEPTHS

CONDUCTIVITY
millimhos /m = $\frac{1000}{\text{ohms m}^2/\text{m}}$

10



RUN #1

400

INDUCTION

200

0

RESISTIVITY
- ohms m²/m

16" NORMAL

0

100

0

1000

INDUCTION

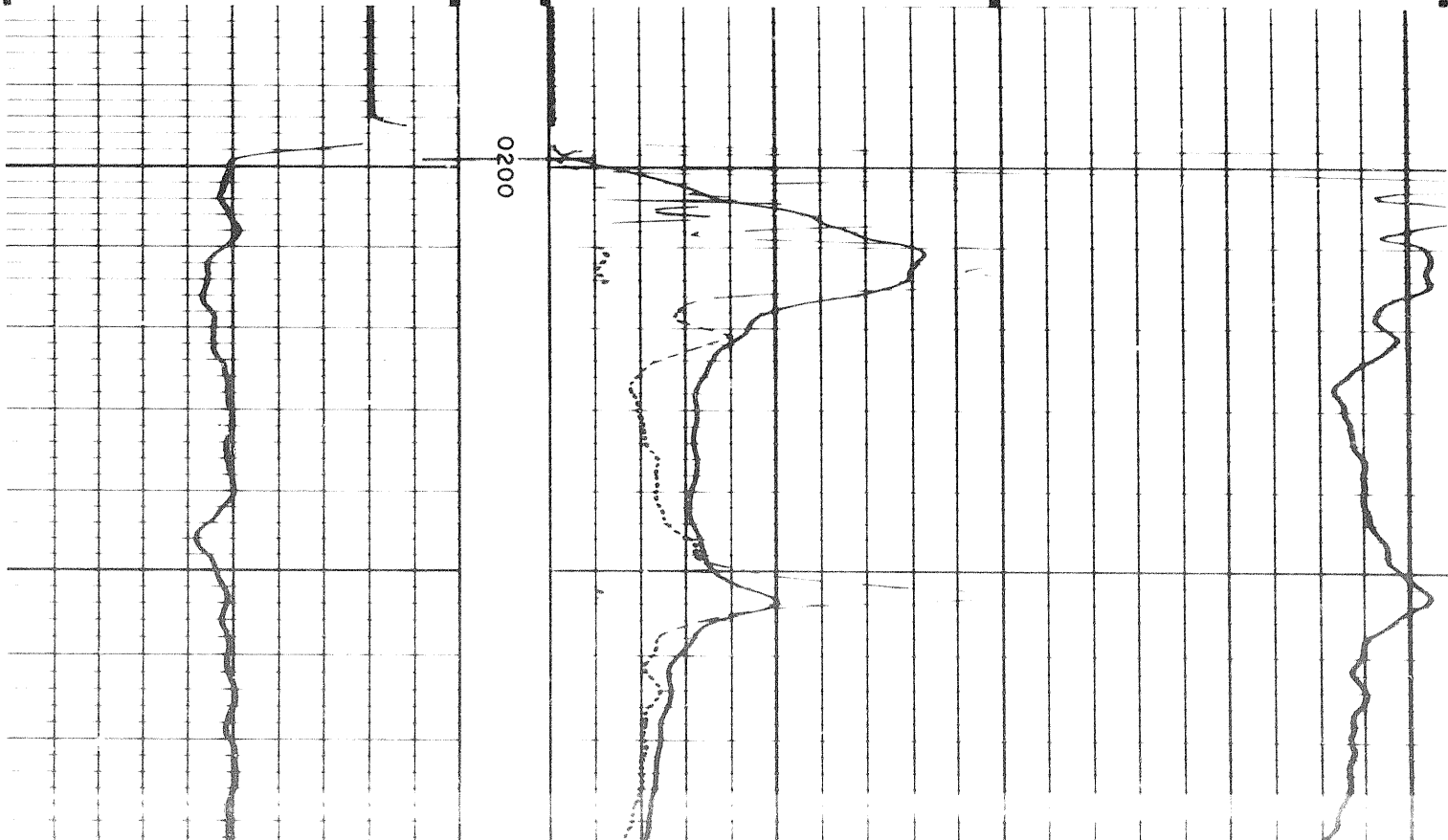
0

100

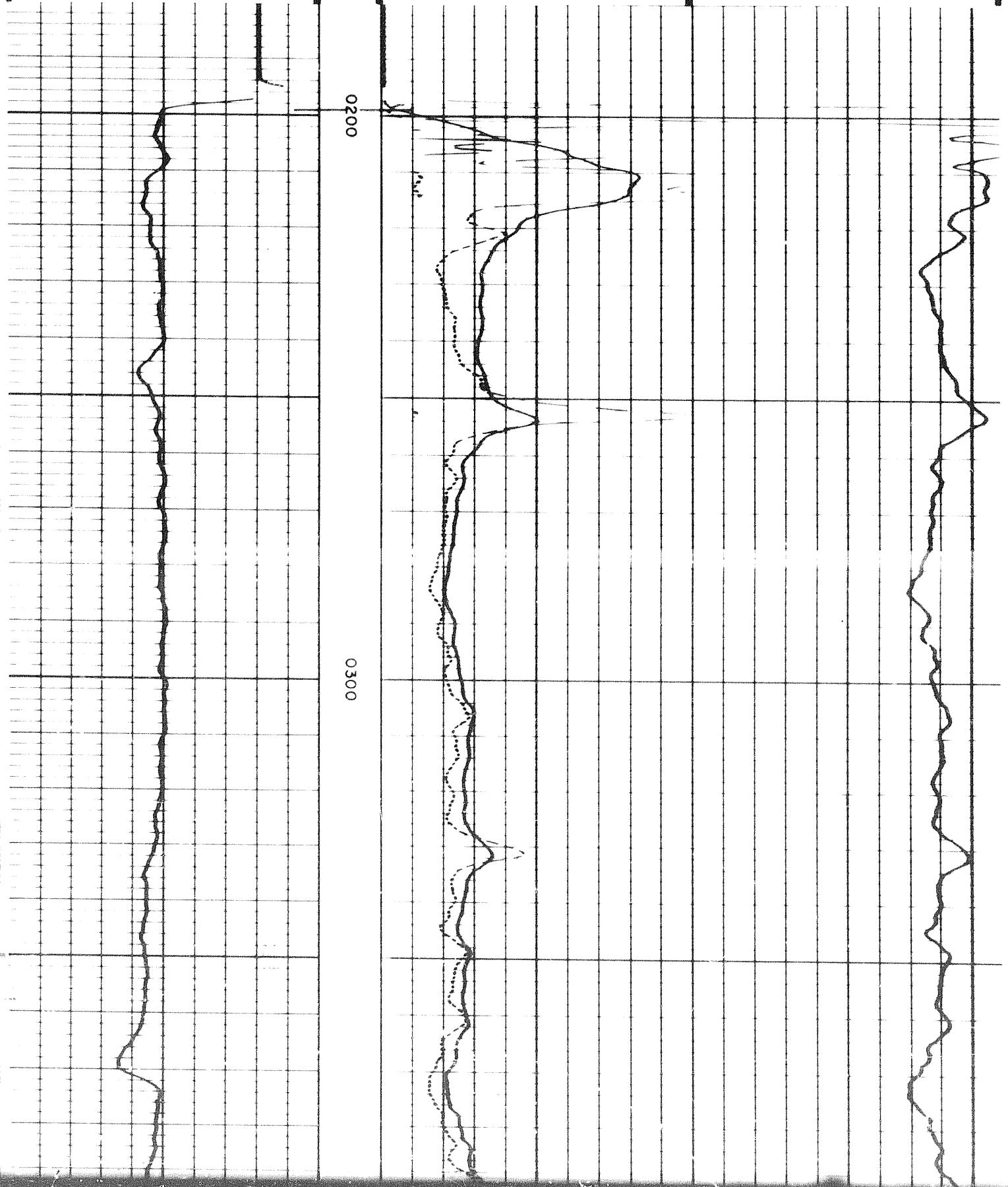
0

1000

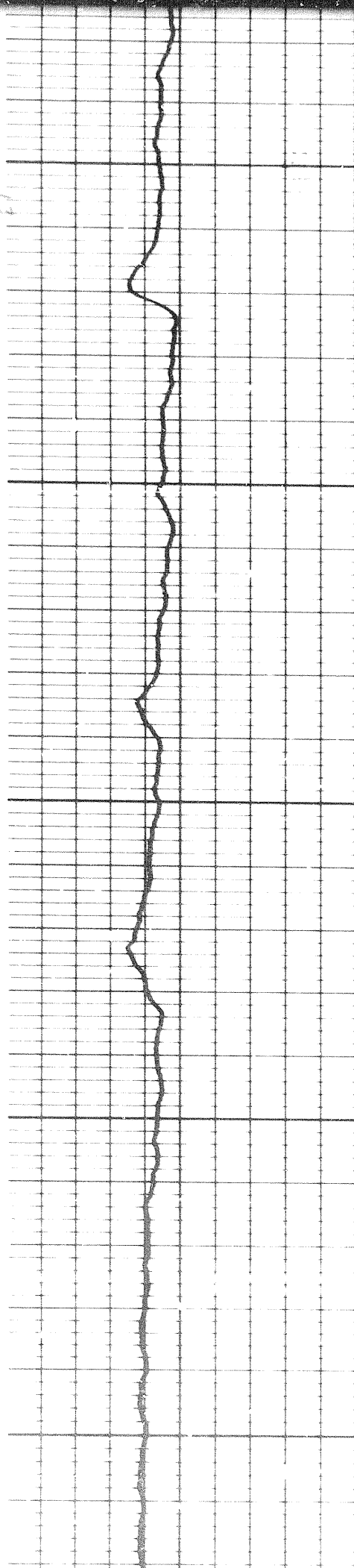
0200



0	100
0	1000
INDUCTION	
0	100
0	1000

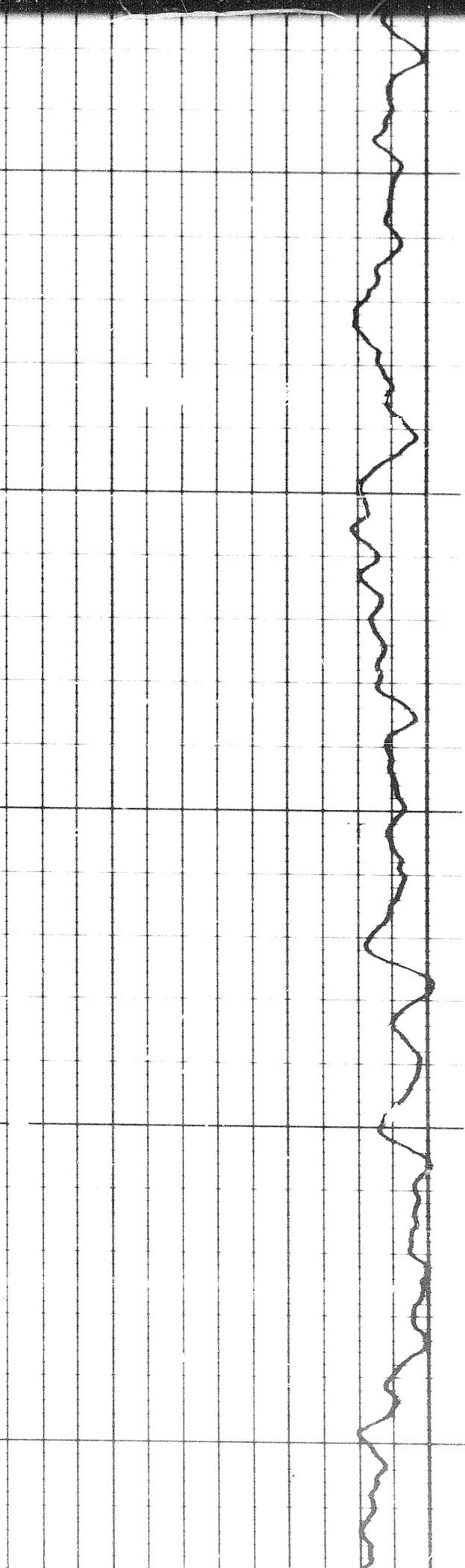
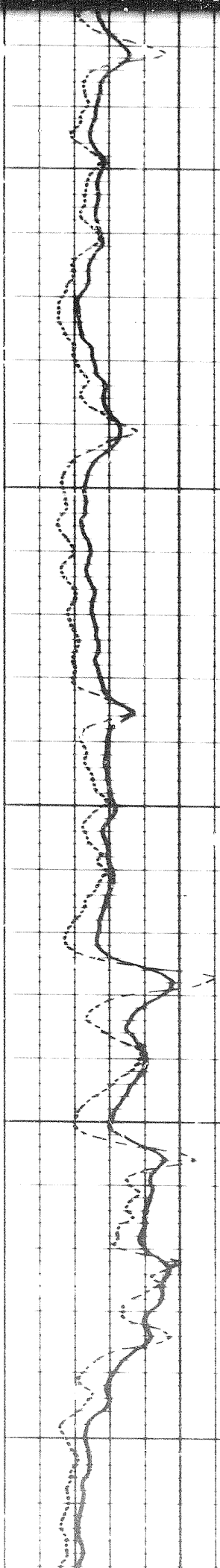


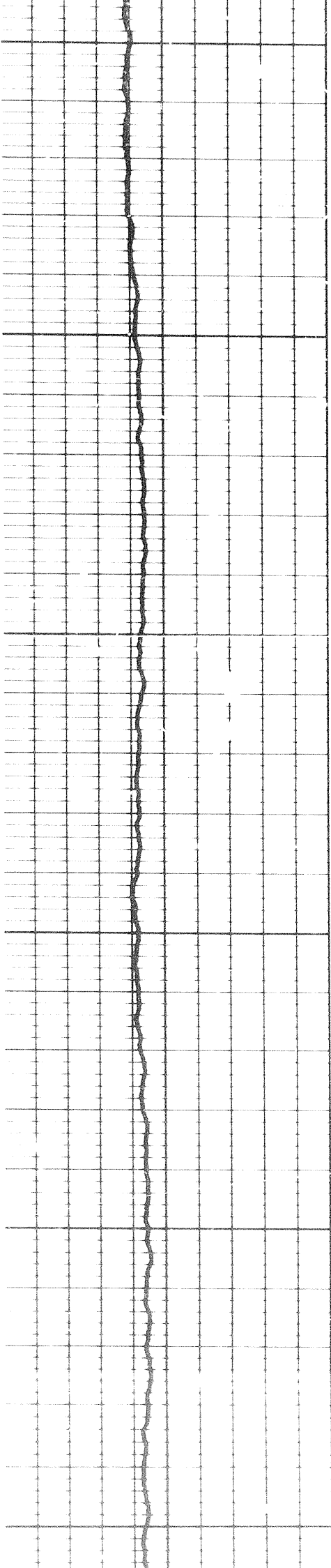
134



0400

0500

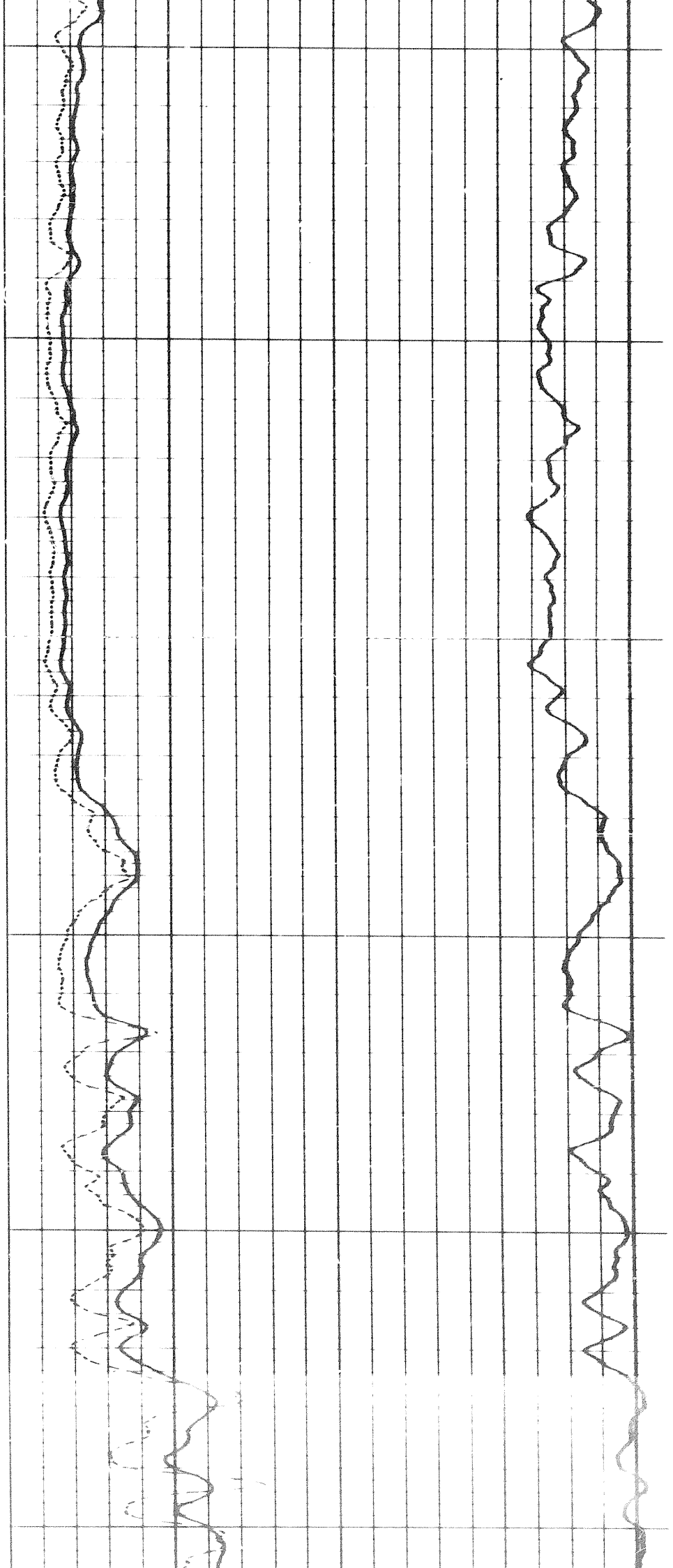




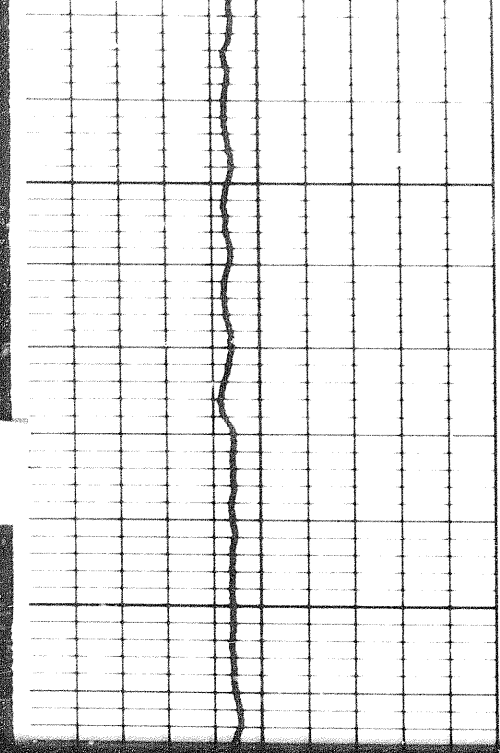
0090

0700

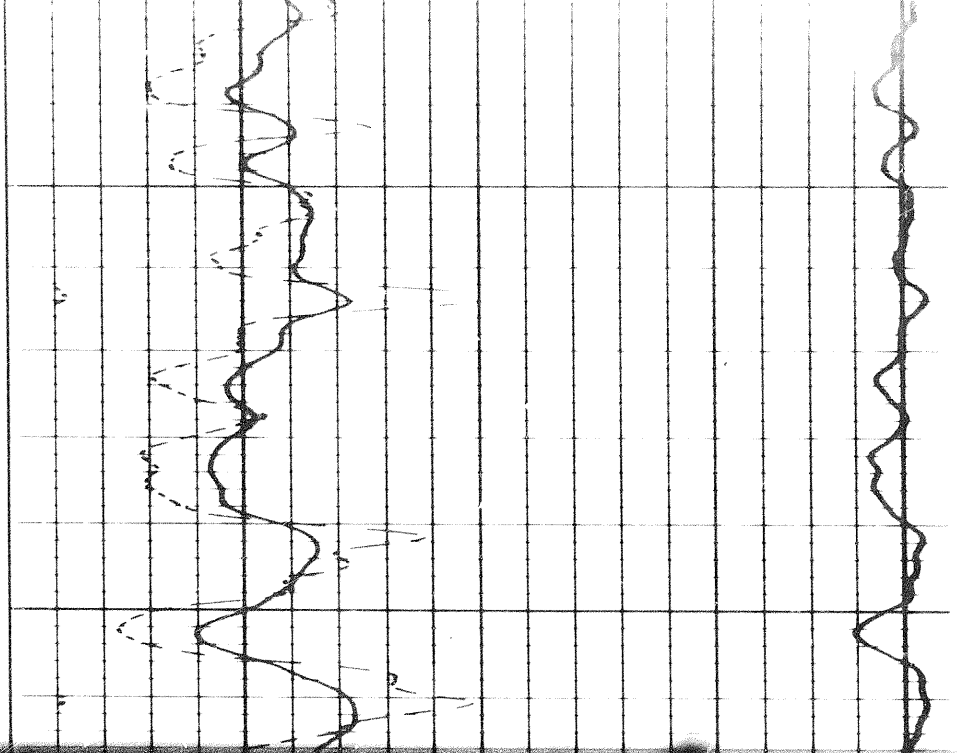
0800



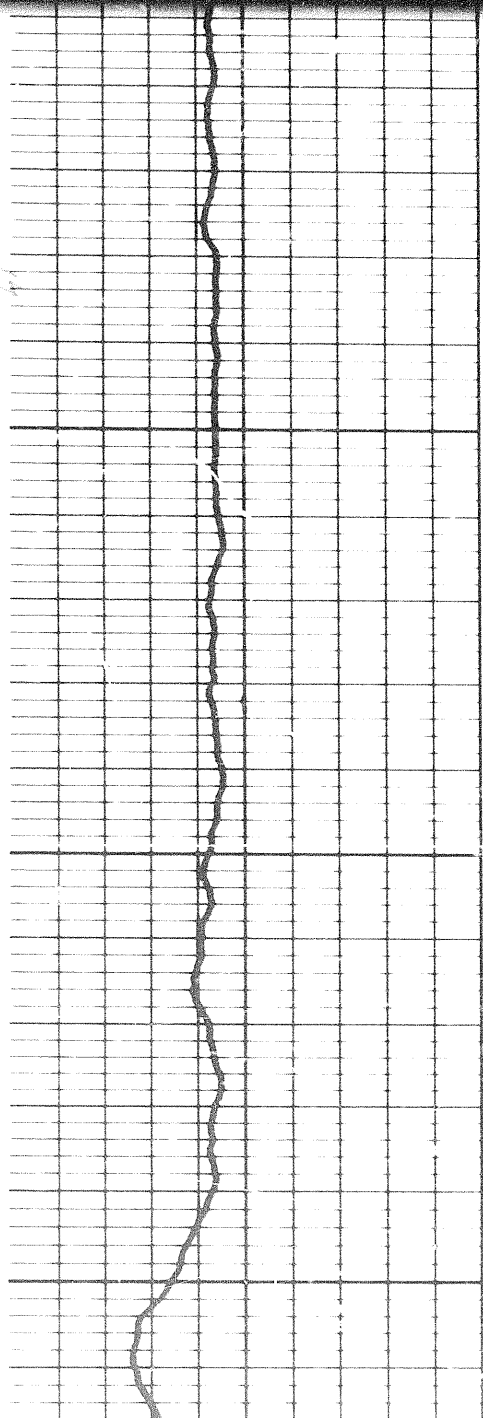
141



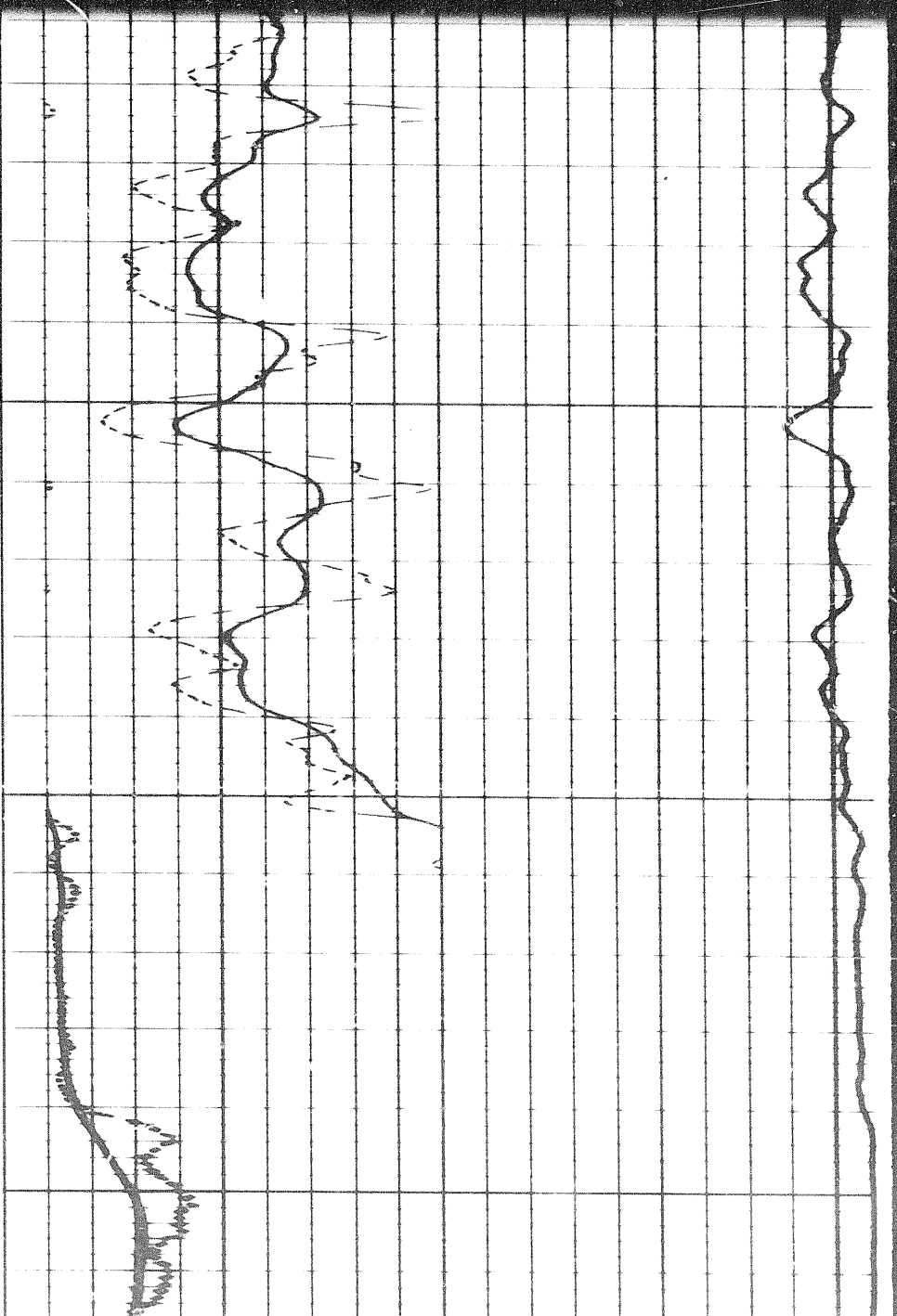
0800



0900



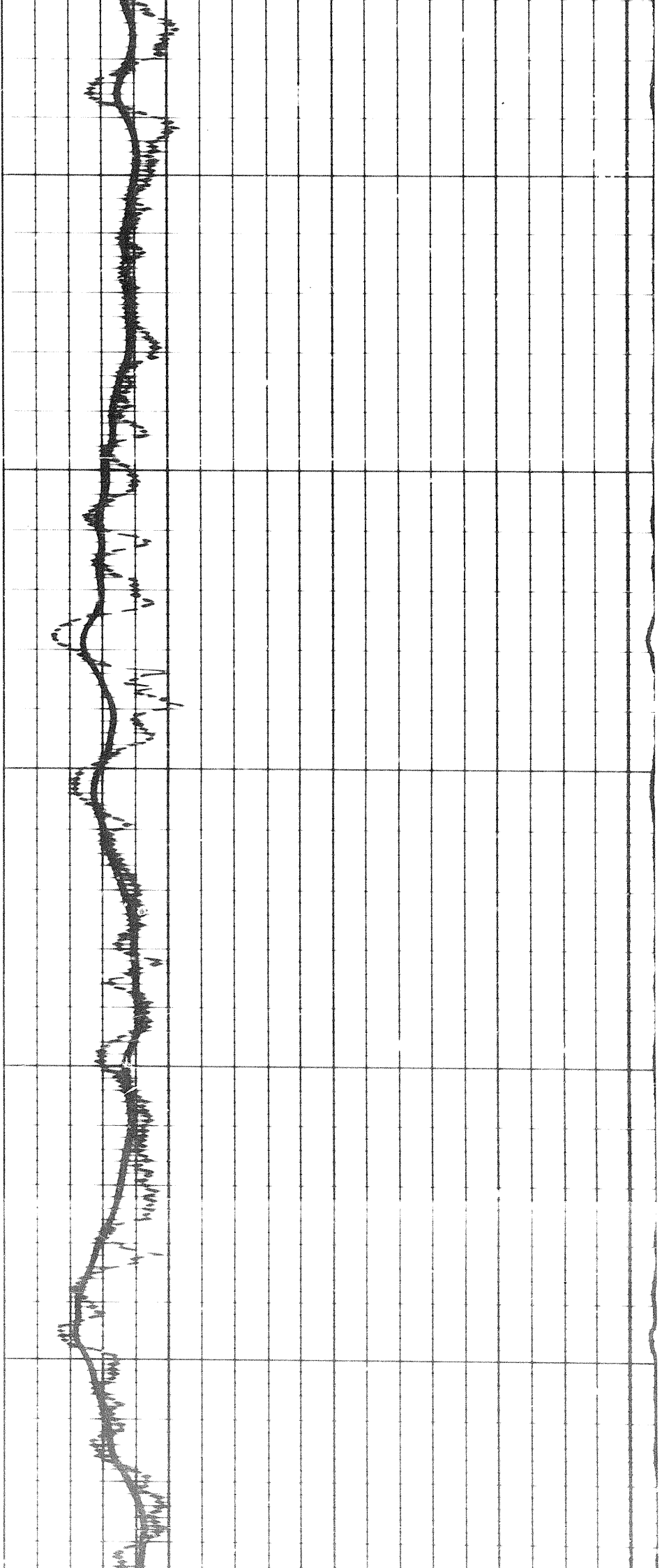
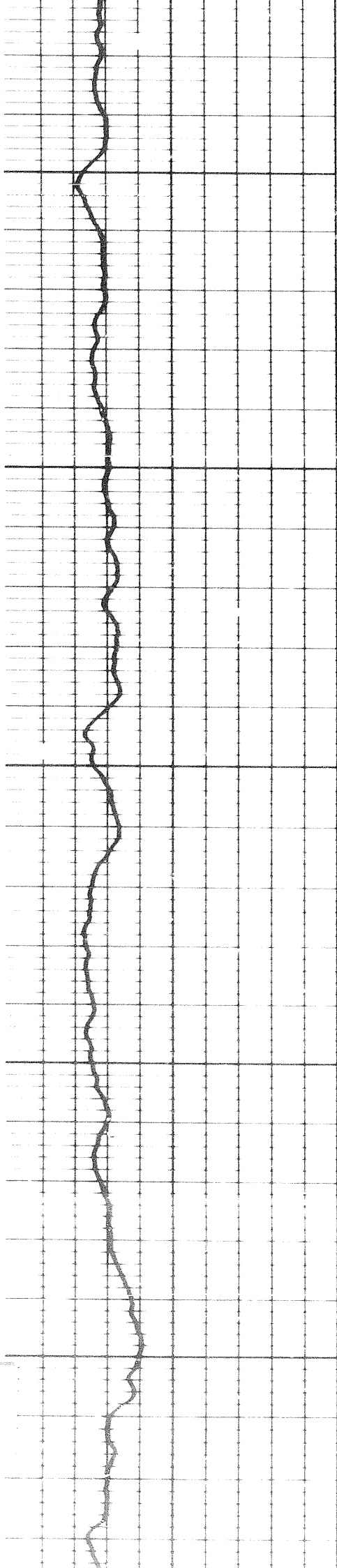
0040

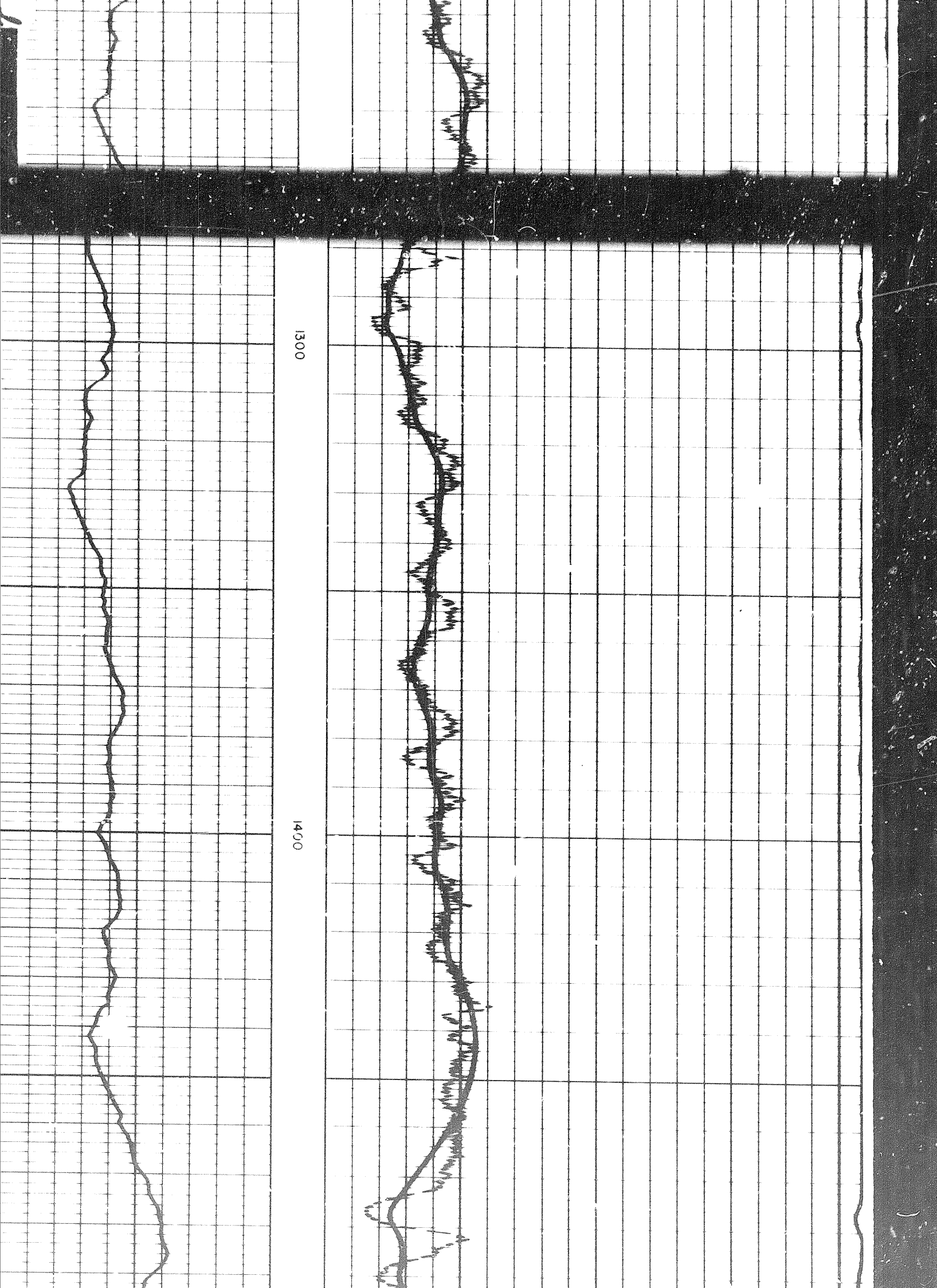


1100

1200

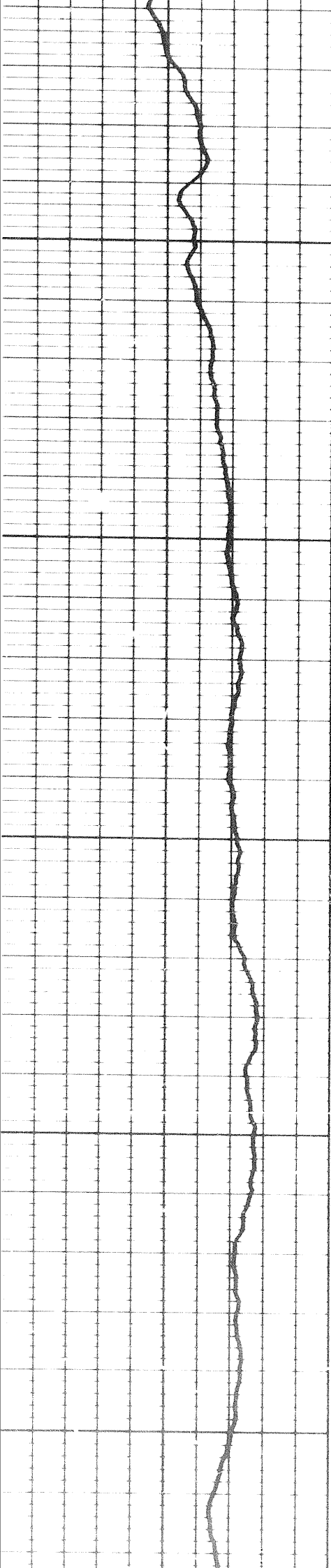
1300





1300

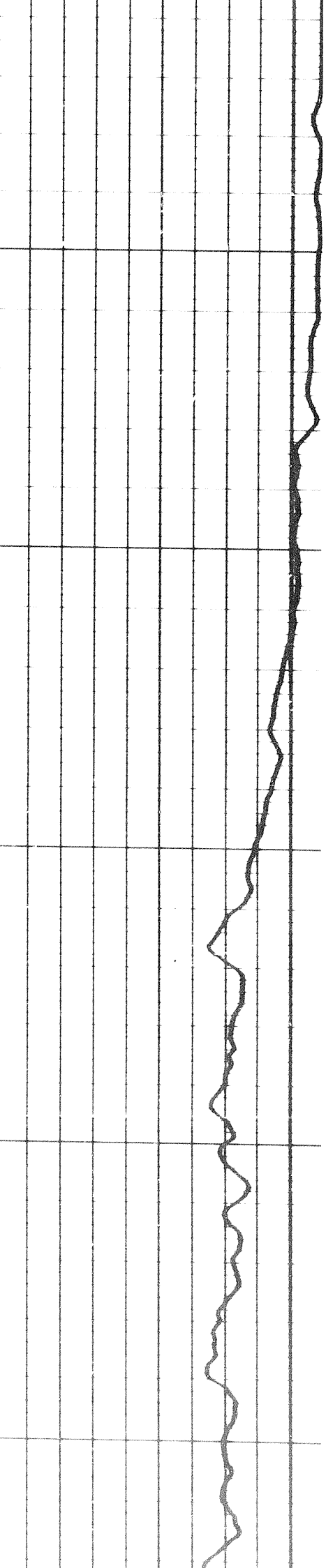
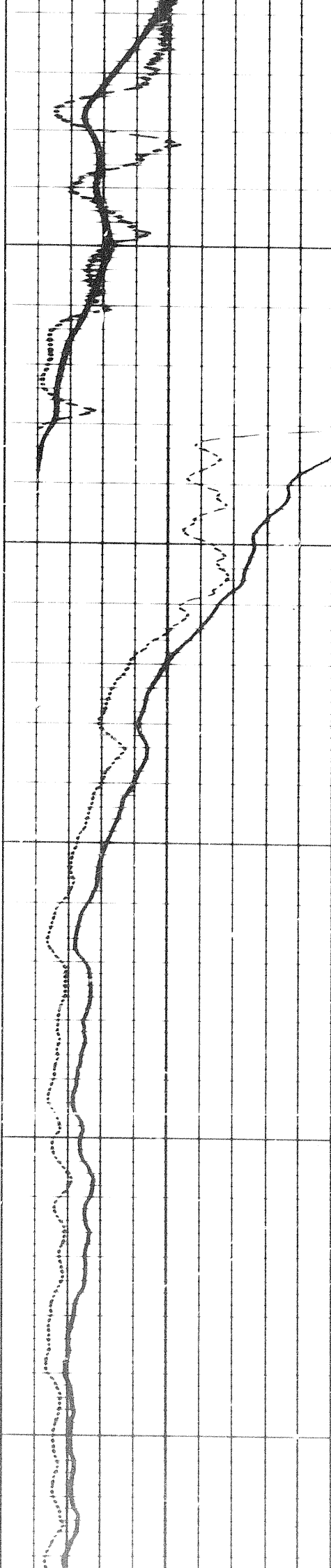
1400



1500

1600

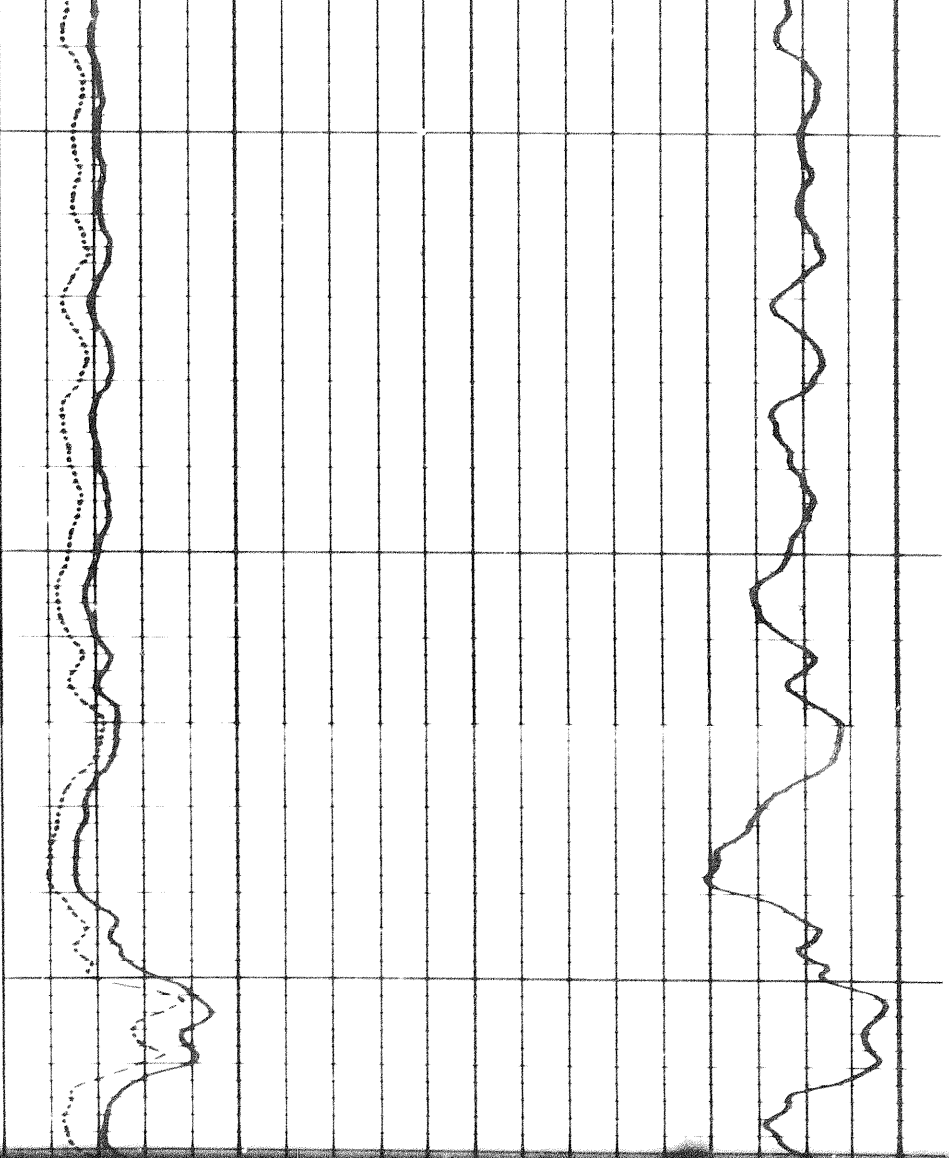
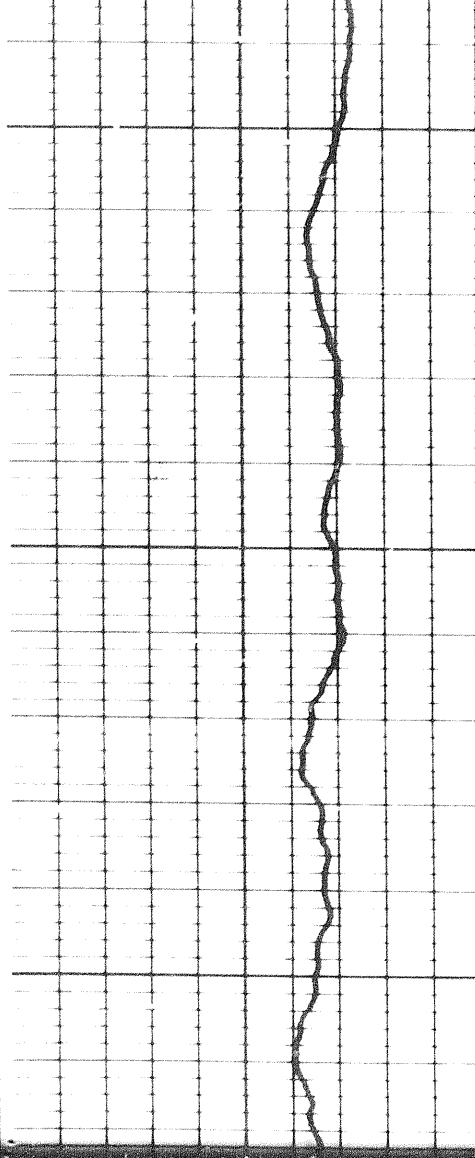
1700



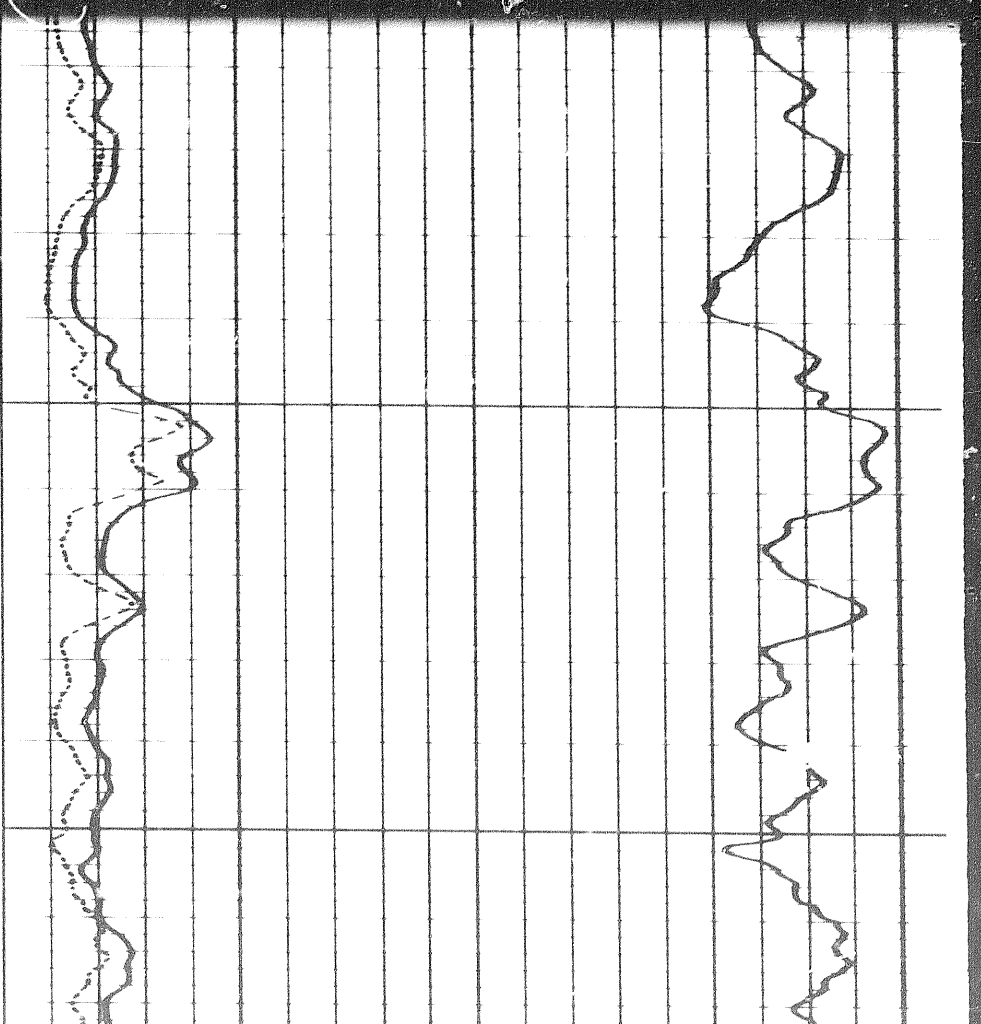
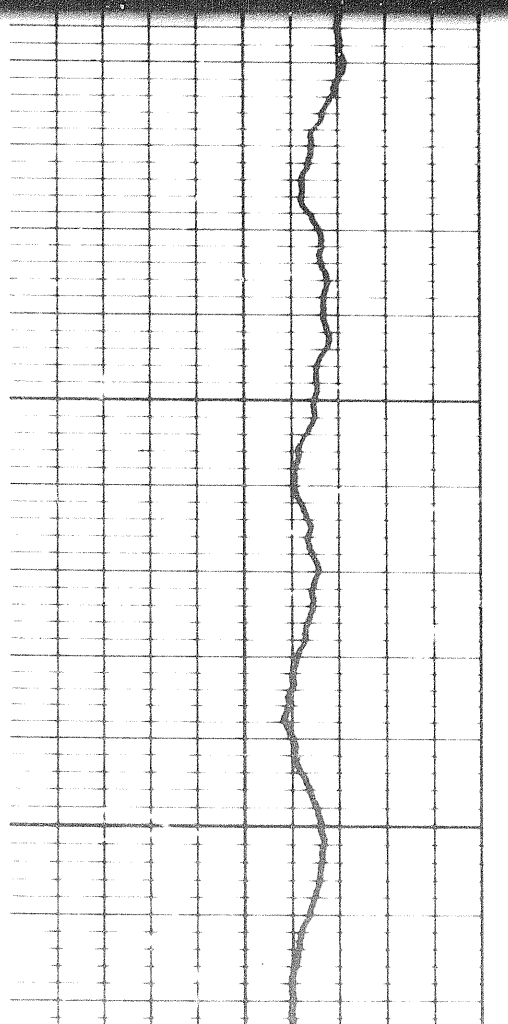
16 of

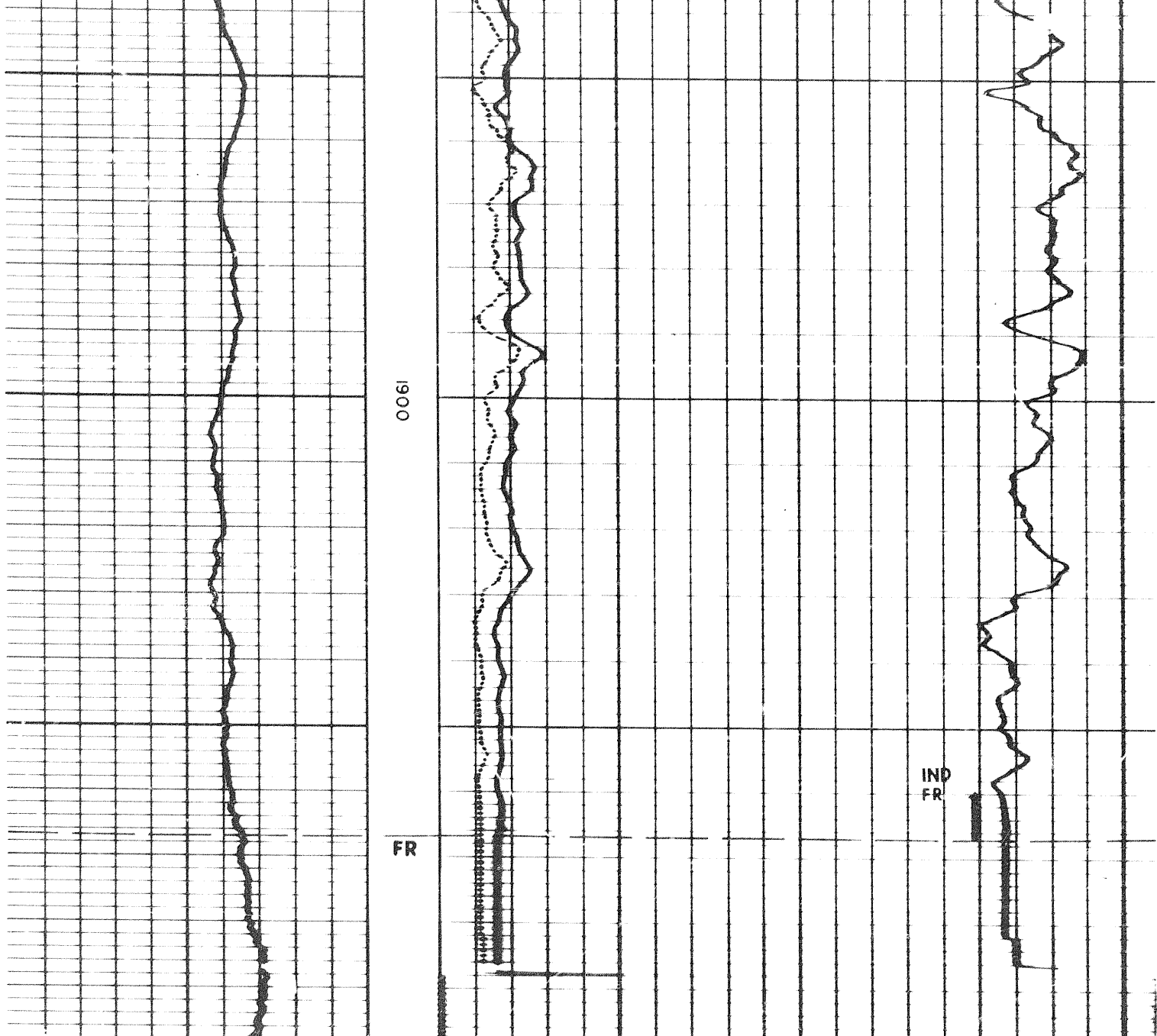
1700

1800

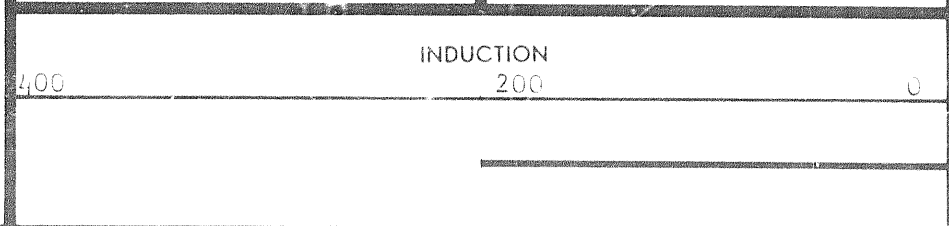
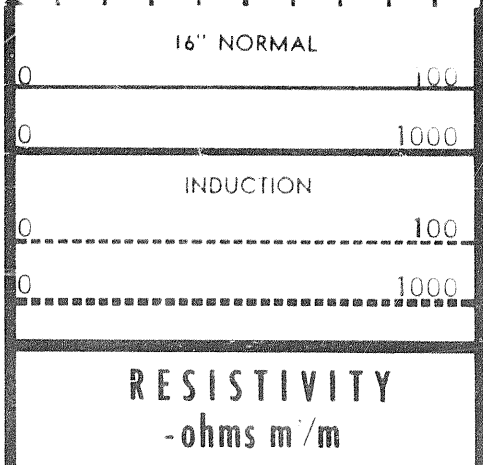


1800





RUN #1
10
↑



SPONTANEOUS-POTENTIAL
millivolts

DEPTH

CONDUCTIVITY
millimhos /m = $\frac{1000}{\text{ohms m}^2/\text{m}}$

10



400

INDUCTION

200

0

SPONTANEOUS-POTENTIAL
millivolts

DEPTH

CONDUCTIVITY

$$\text{millimhos / m} = \frac{1000}{\text{ohms m}^2/\text{m}}$$

DETAIL LOG

5 " = 100'

SPONTANEOUS-POTENTIAL
millivolts

DEPTH

CONDUCTIVITY

$$\text{millimhos / m} = \frac{1000}{\text{ohms m}^2/\text{m}}$$

20



RUN #2

INDUCTION

200

100

0

RESISTIVITY

- ohms m'/m

16" NORMAL

0

100

0

1000

INDUCTION

0

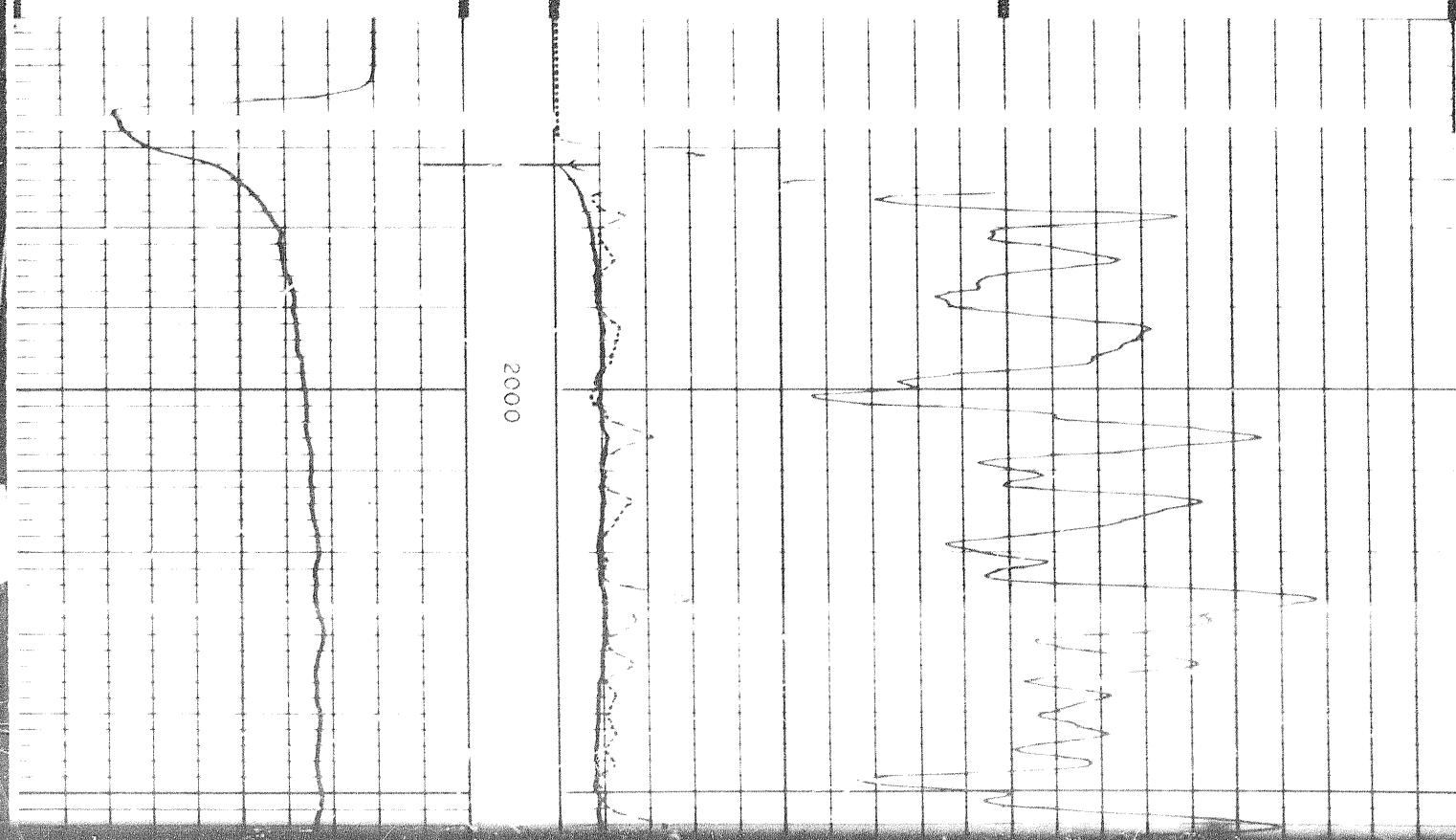
100

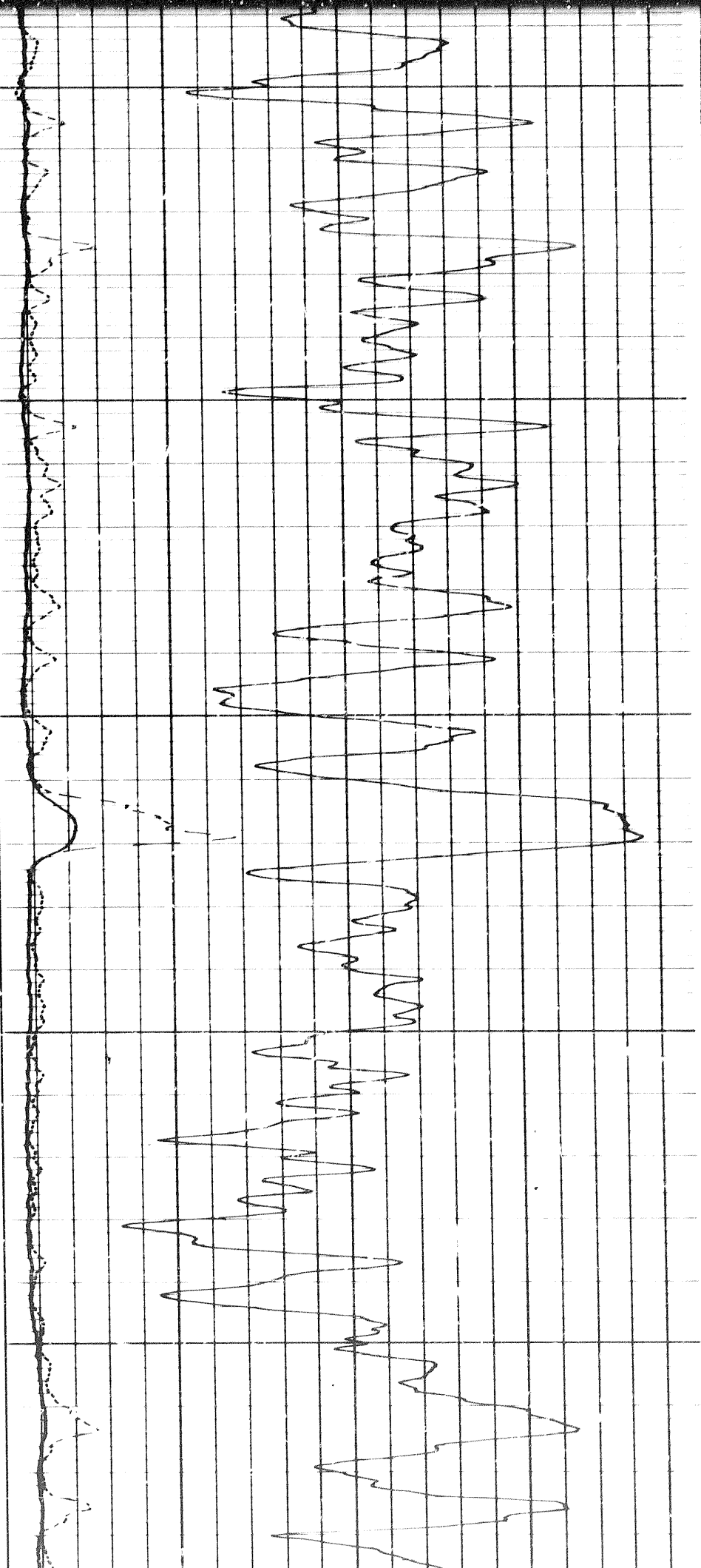
0

1000

2000

17d

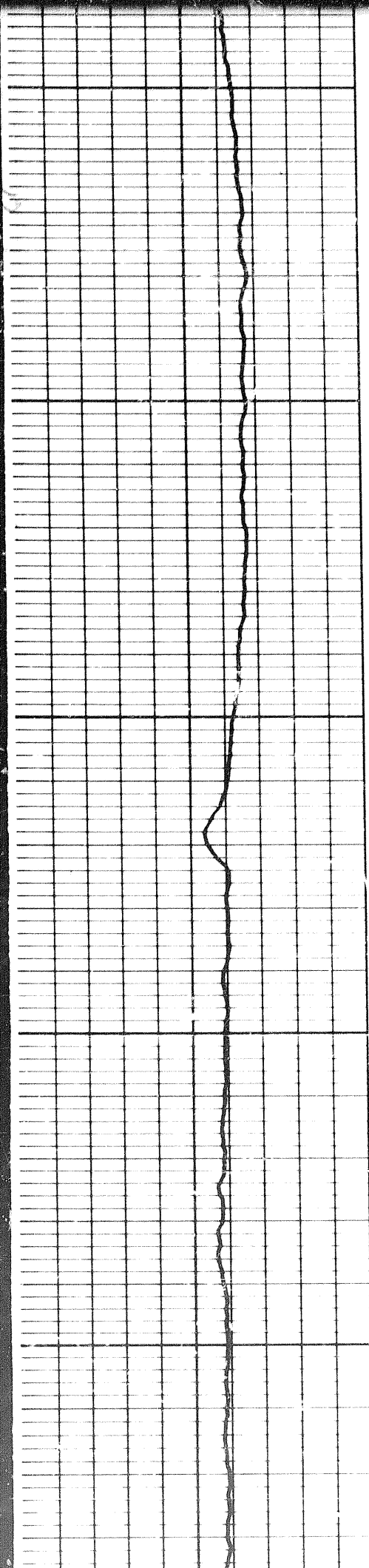




2000

2100

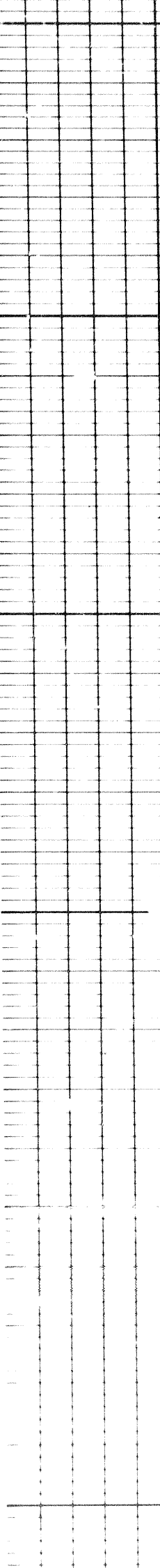
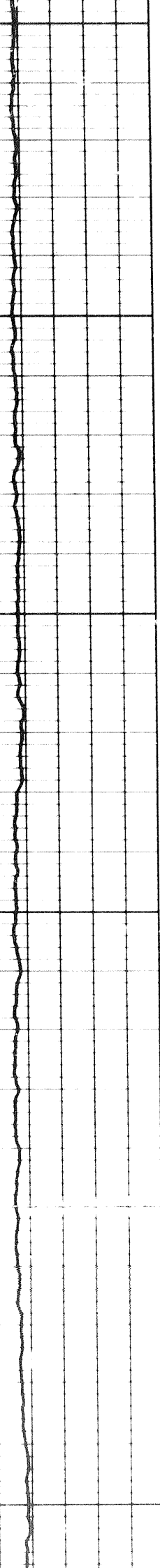
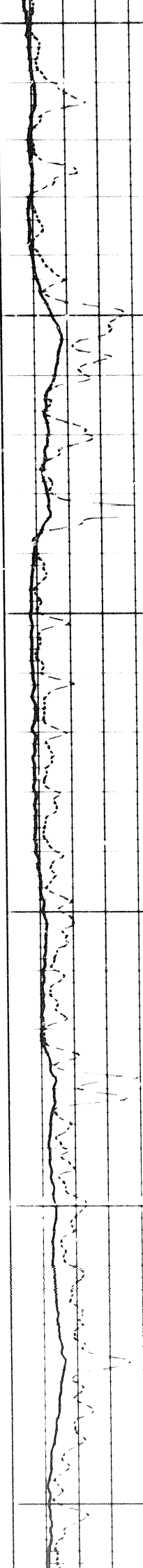
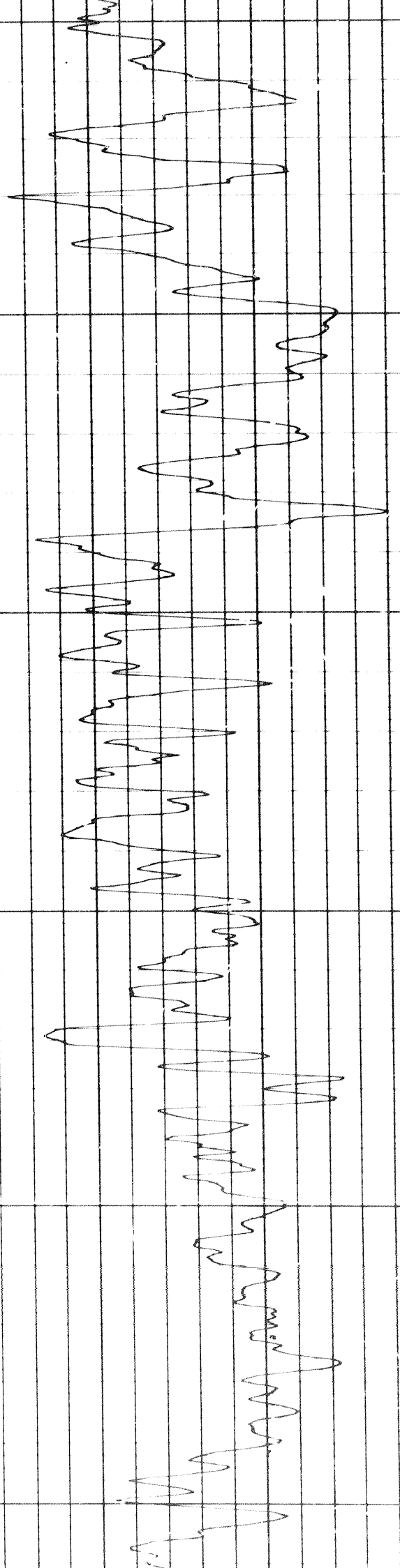
2200

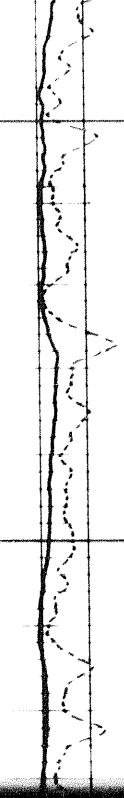
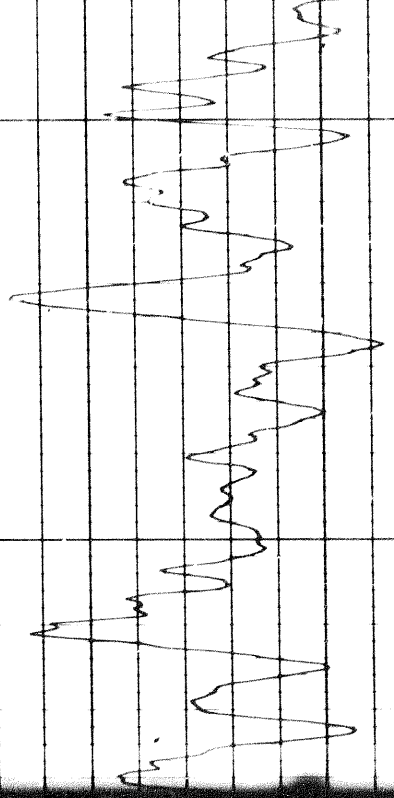


2200

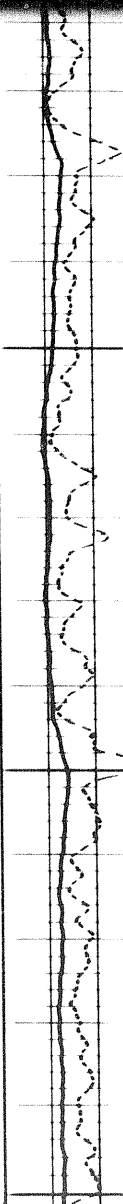
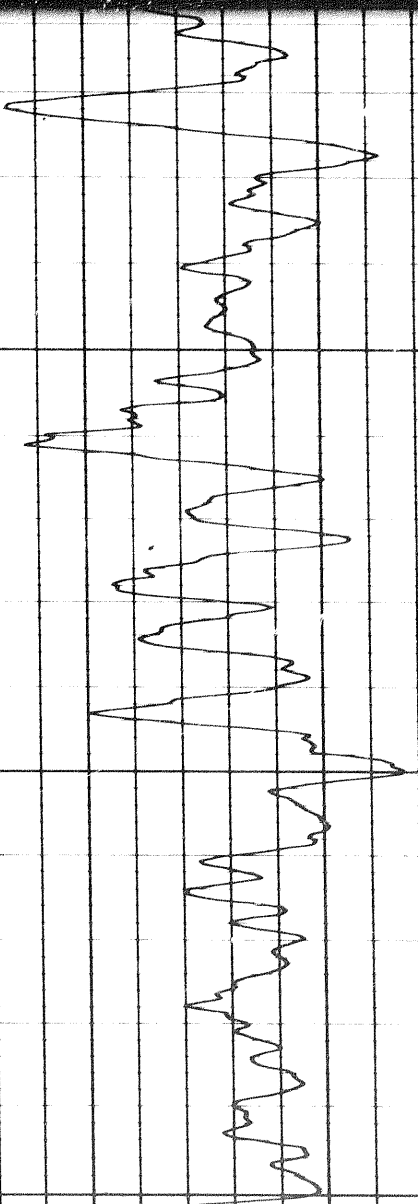
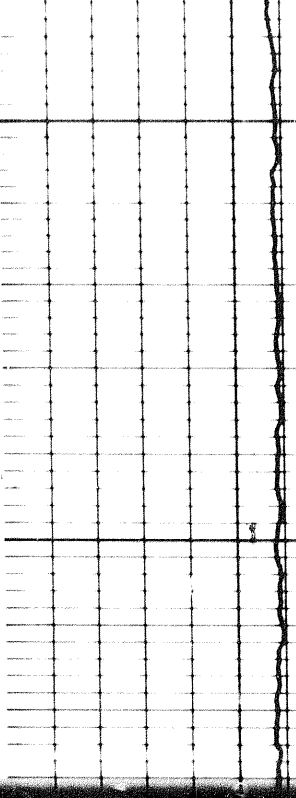
2300

2400



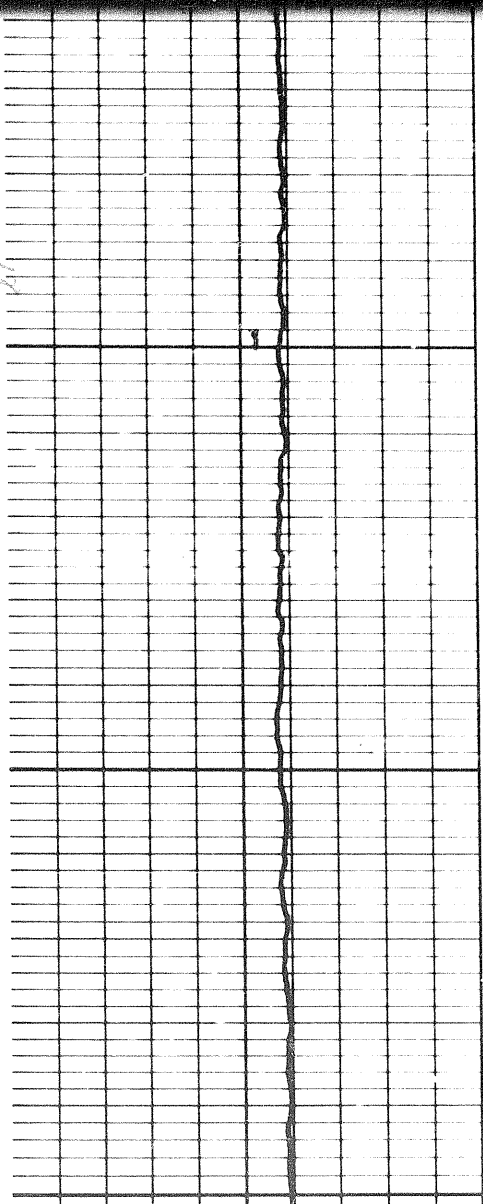


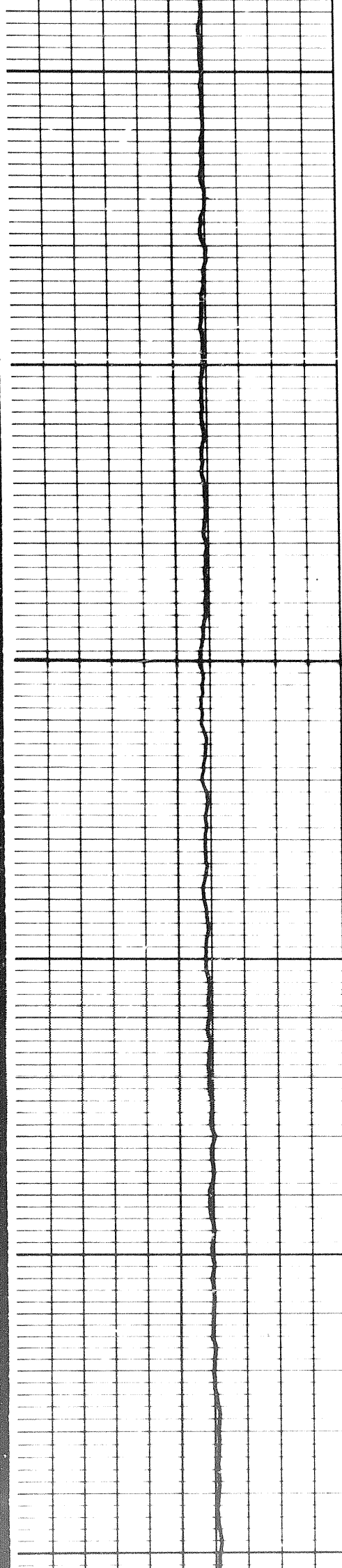
2500



2500

2600

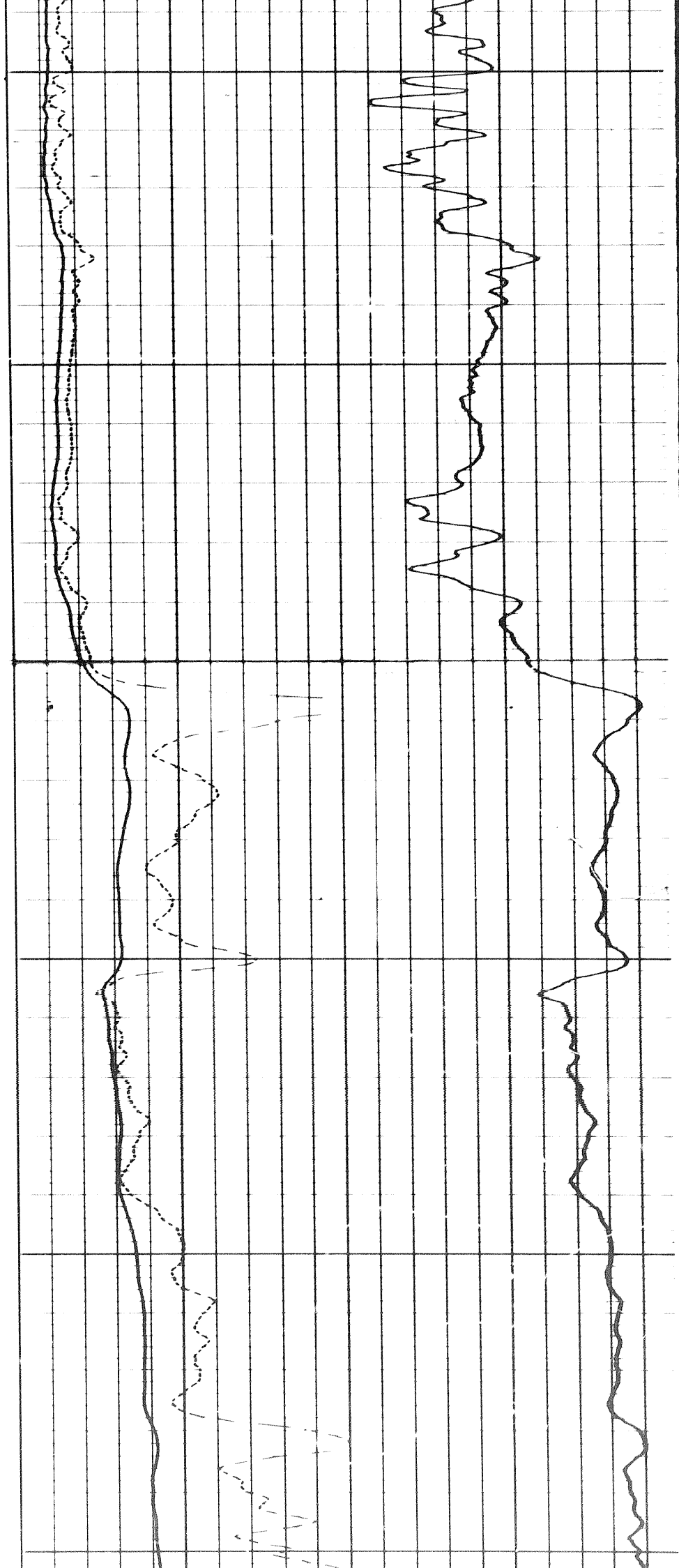




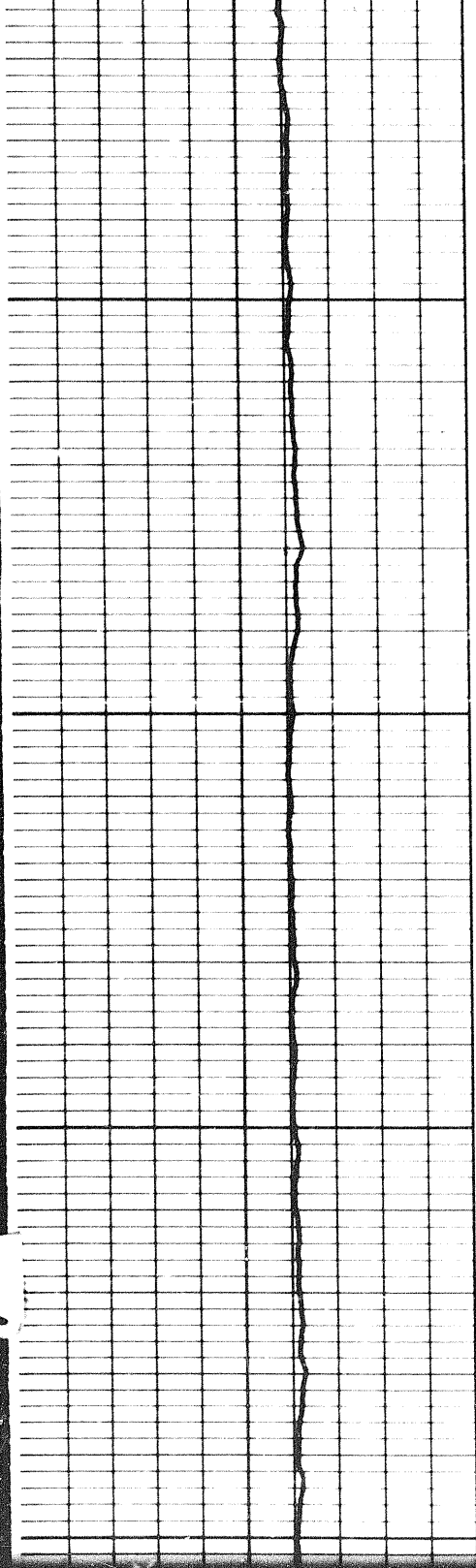
2600

2700

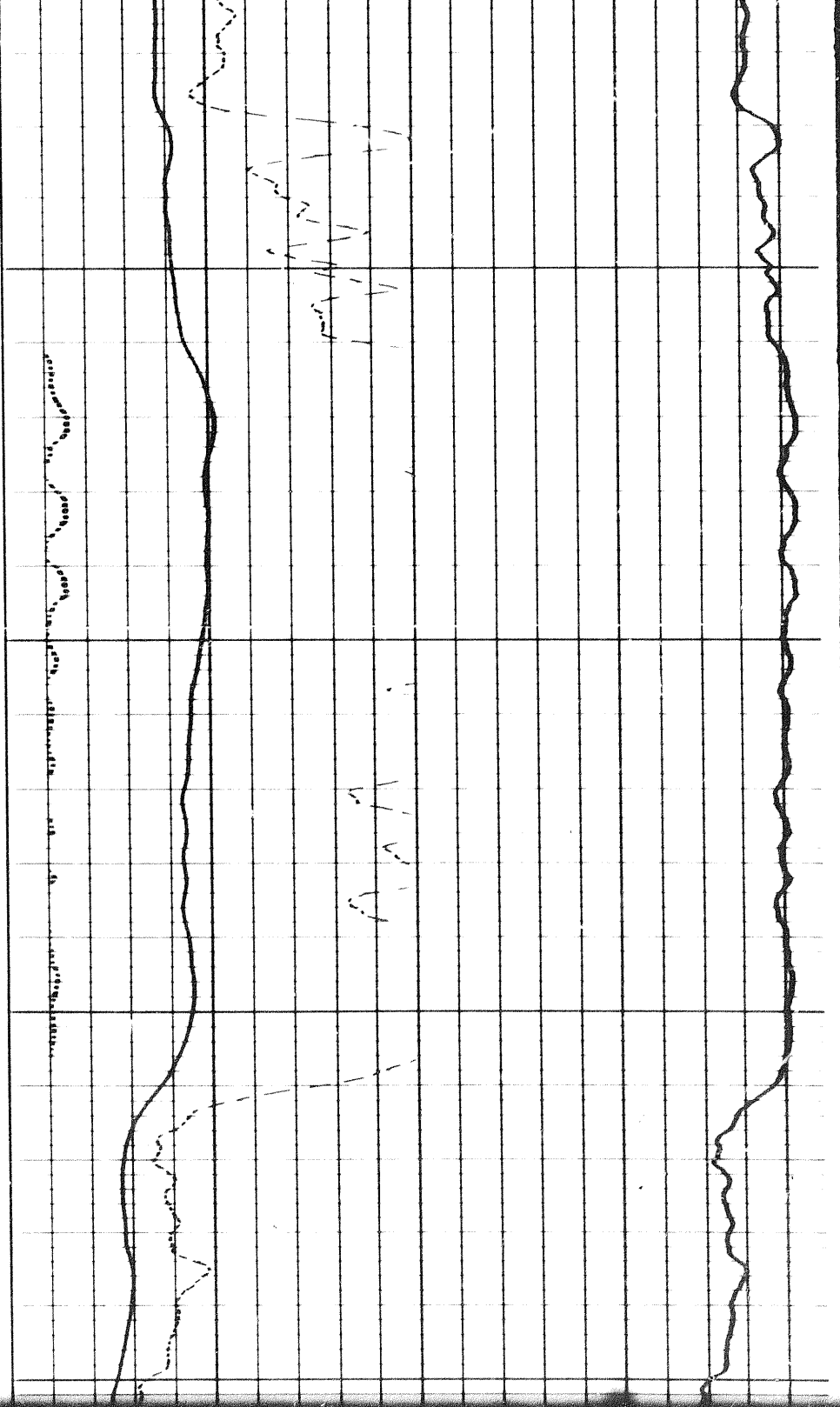
2800



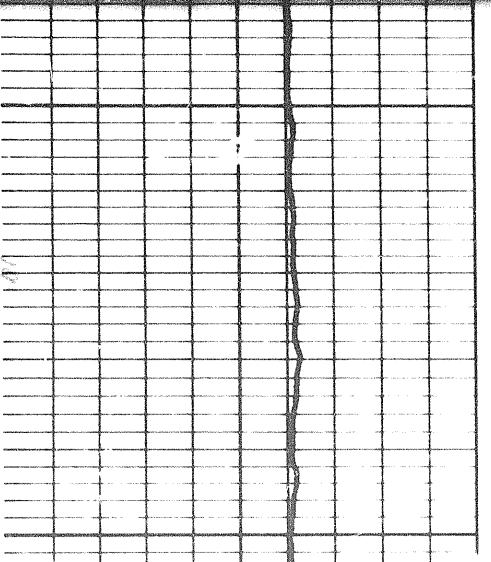
100



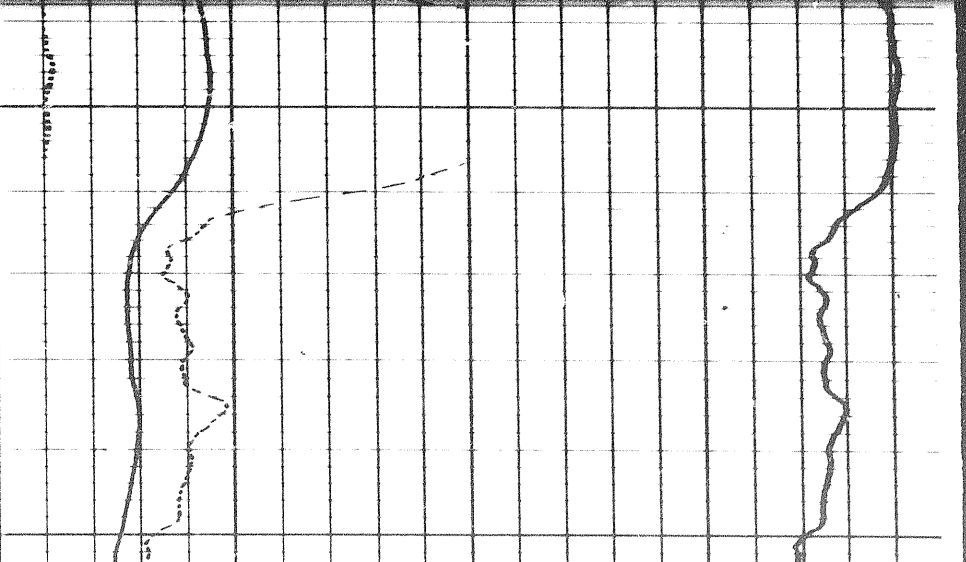
2900

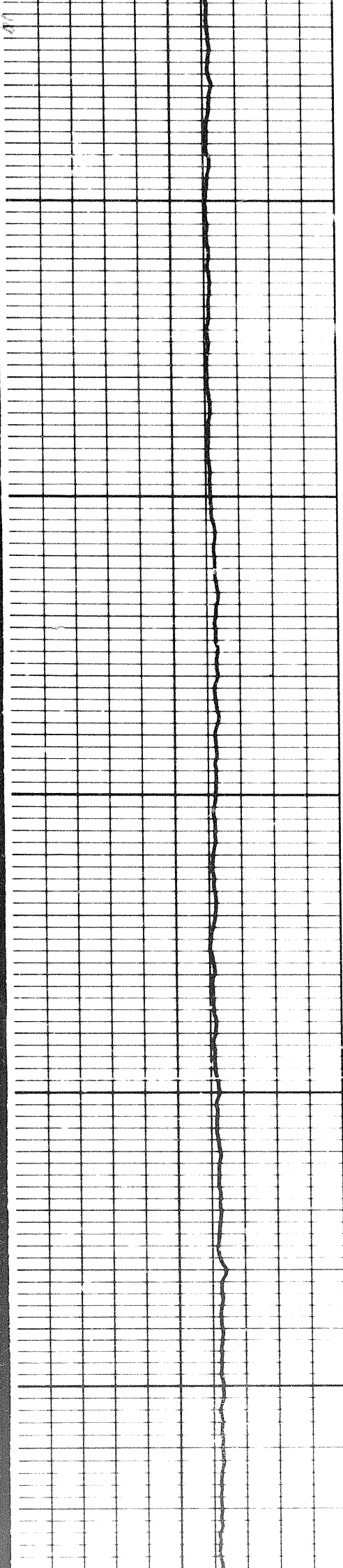


3000



3000

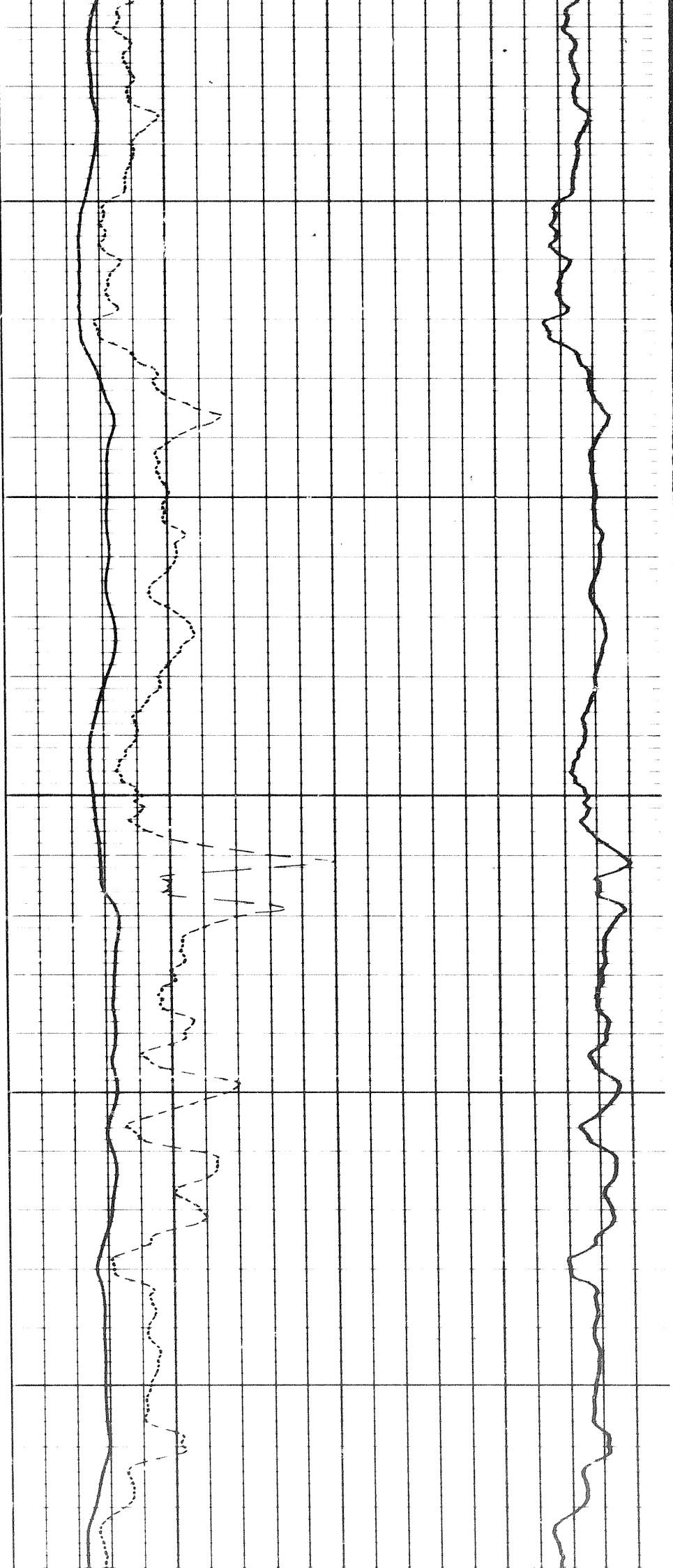


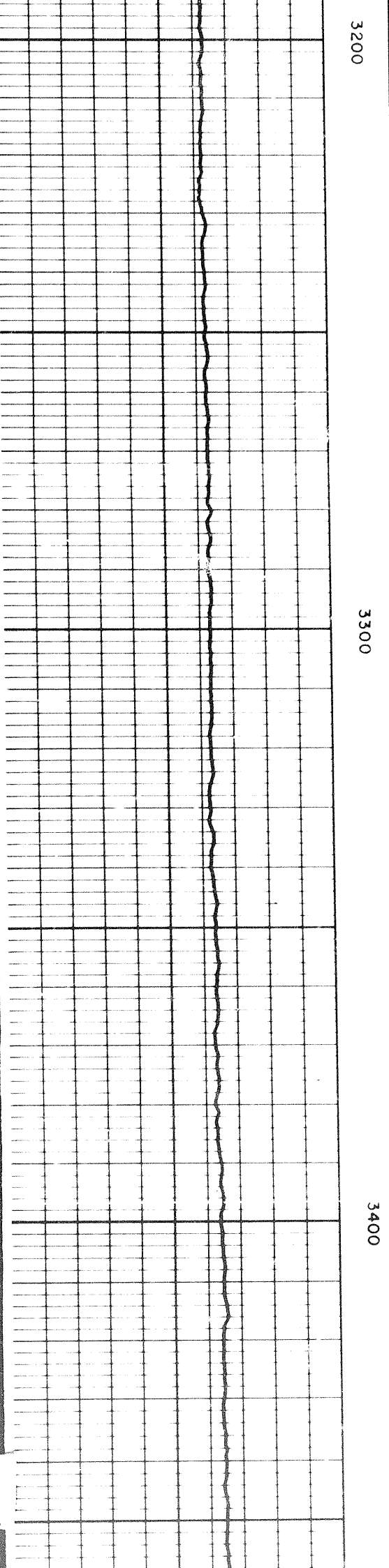
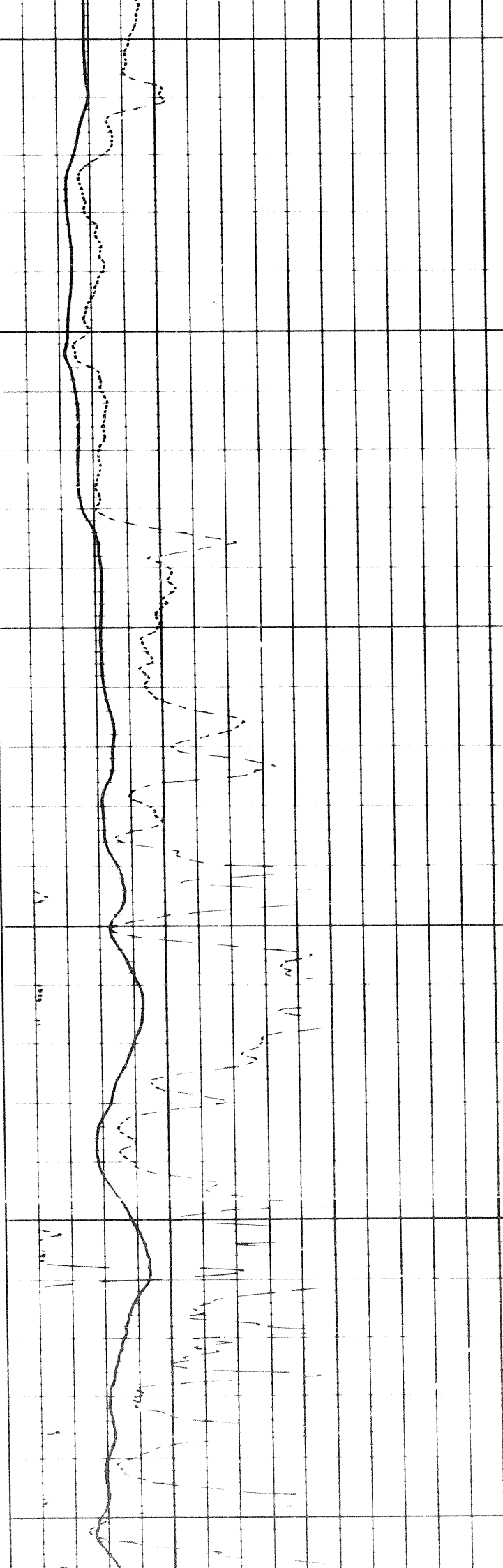
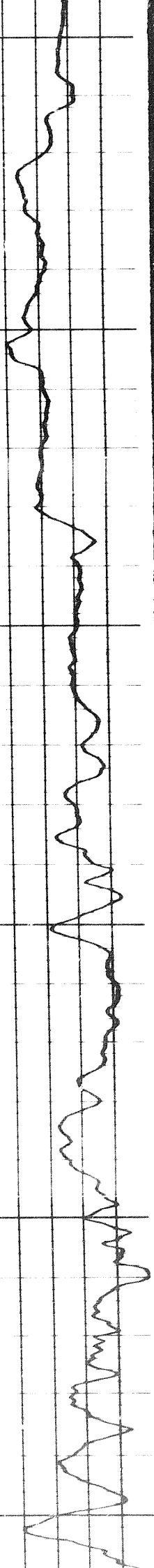


3000

3100

3200





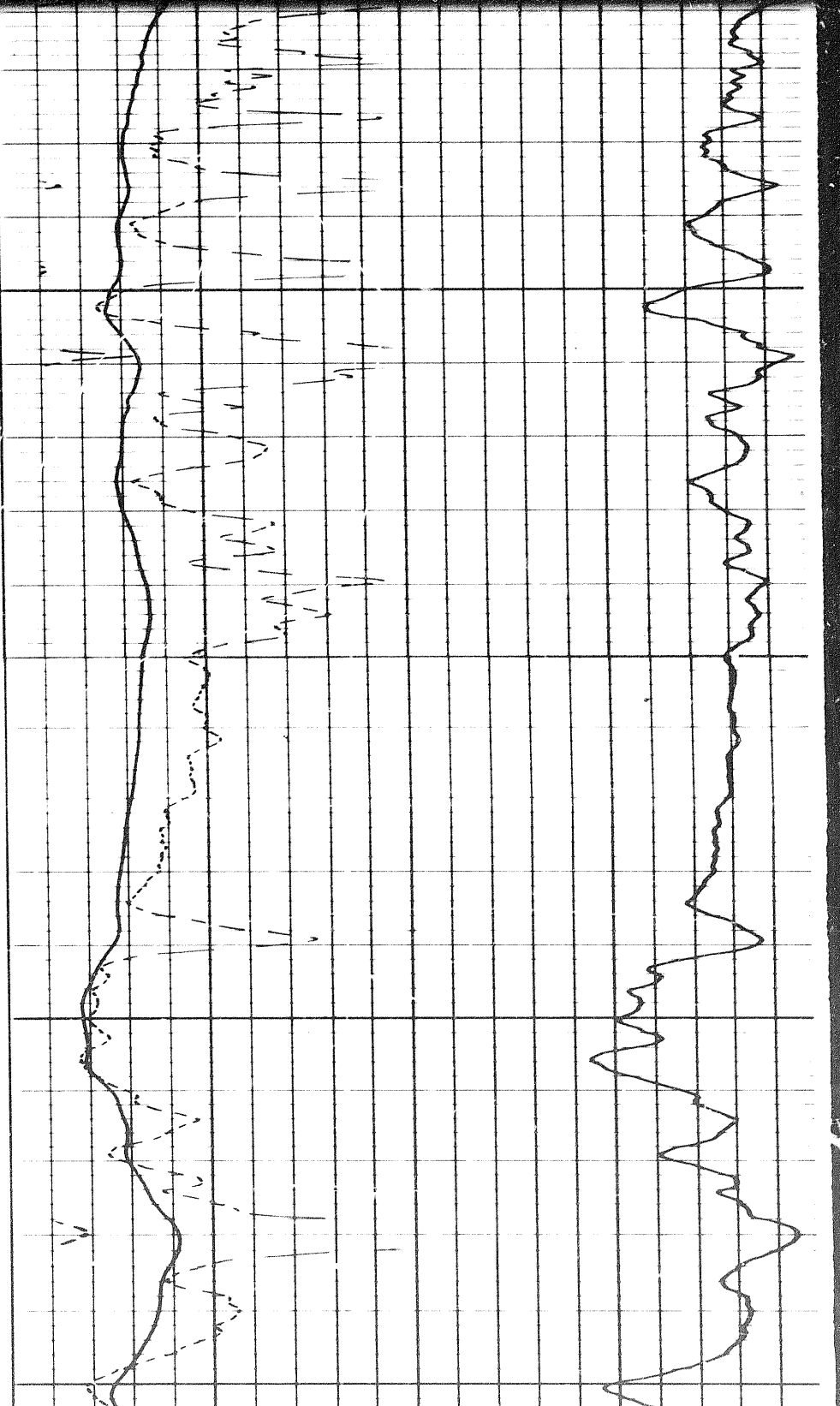
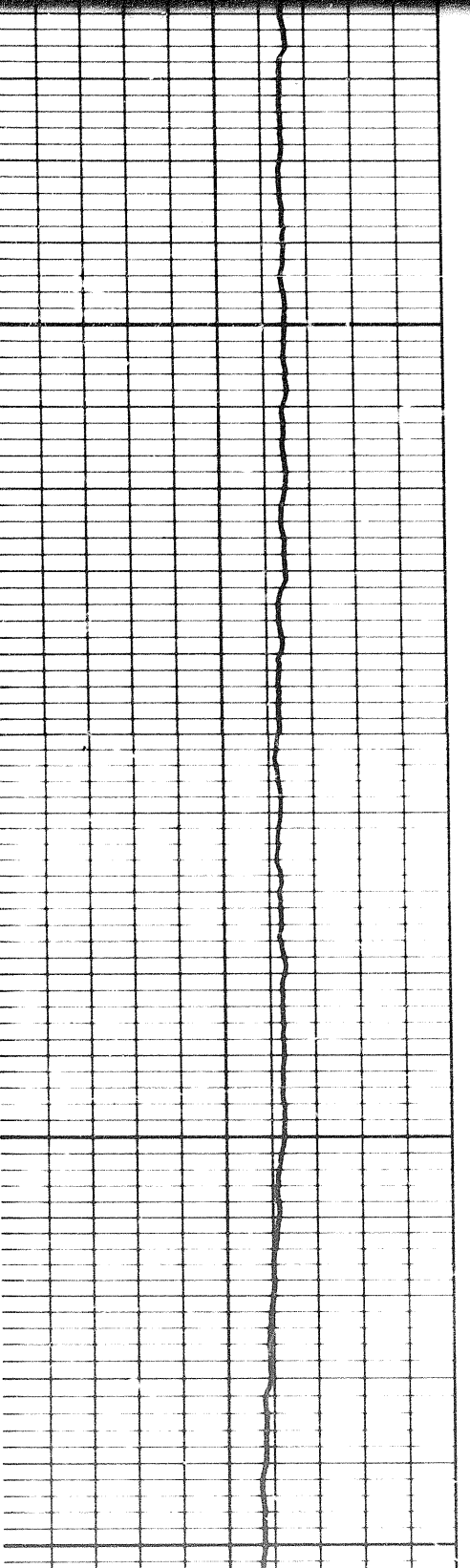
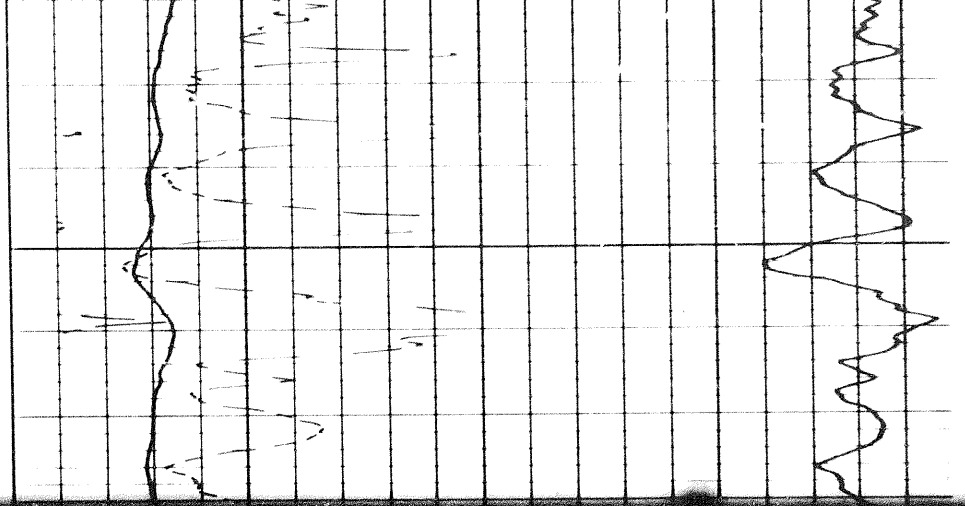
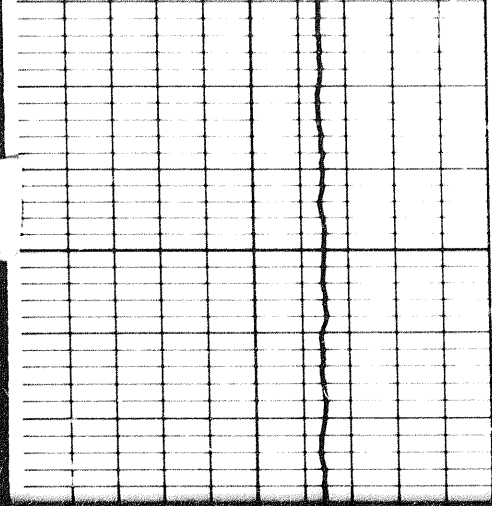
3200

3300

3400

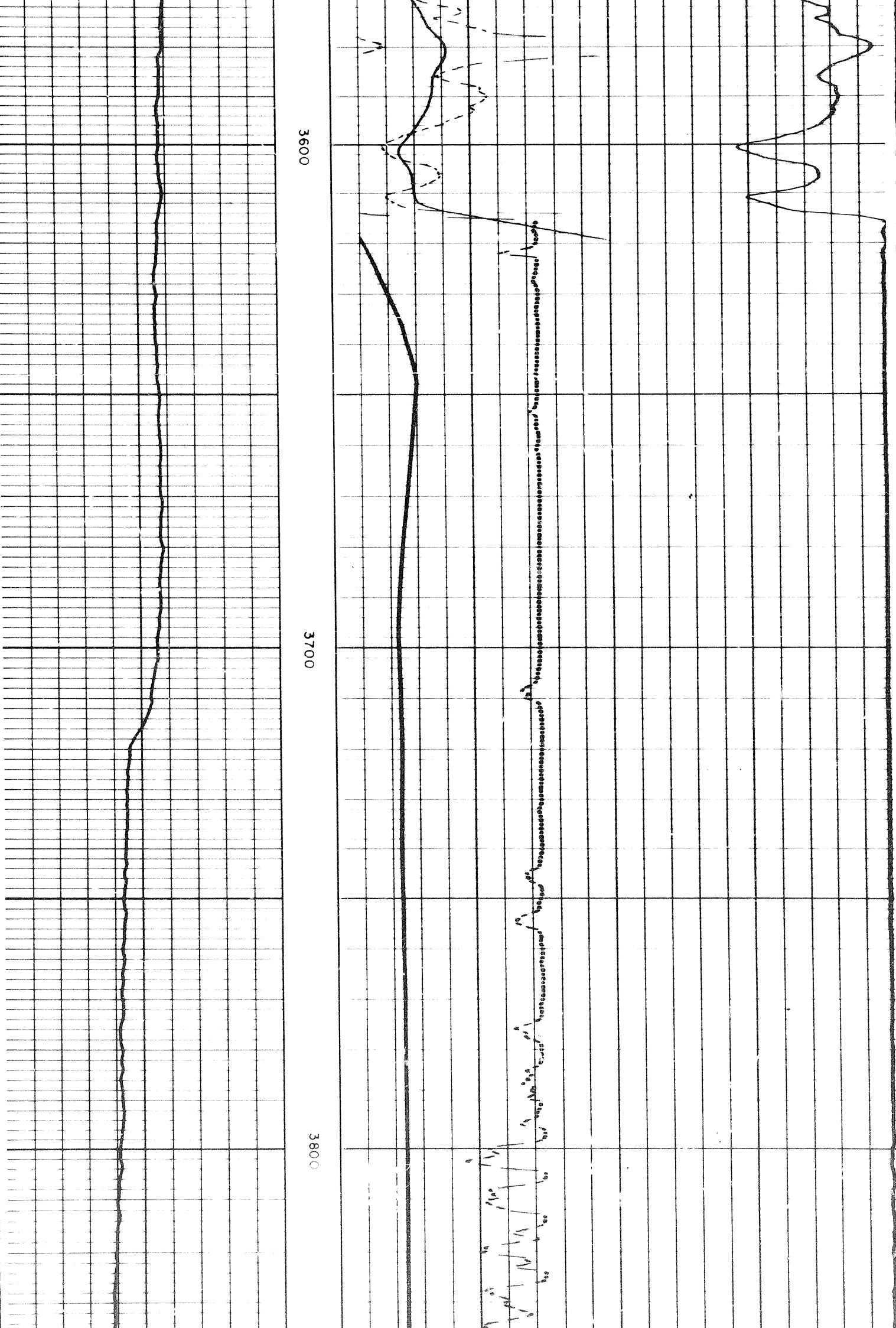
202

202



3500

3600



3600

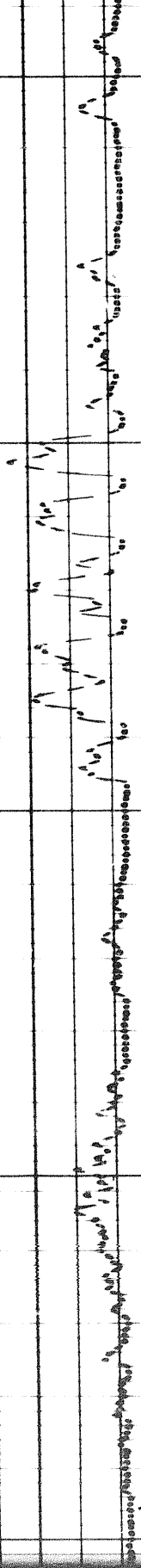
3700

3800

21 of

3800

3900



3900

3900

4000

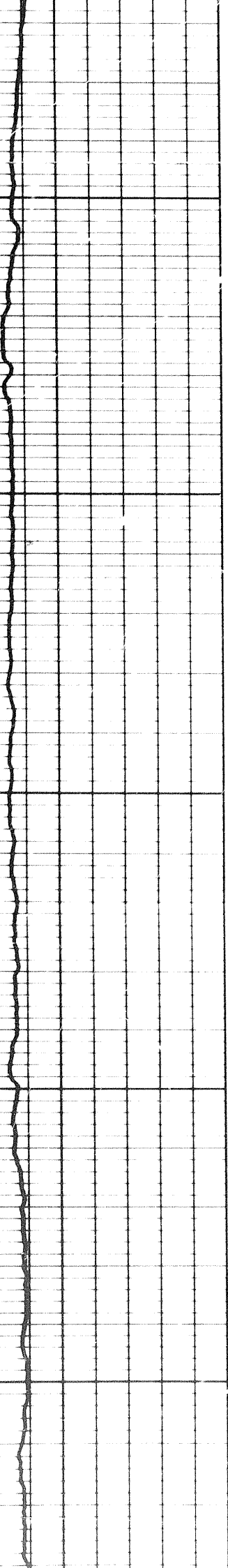
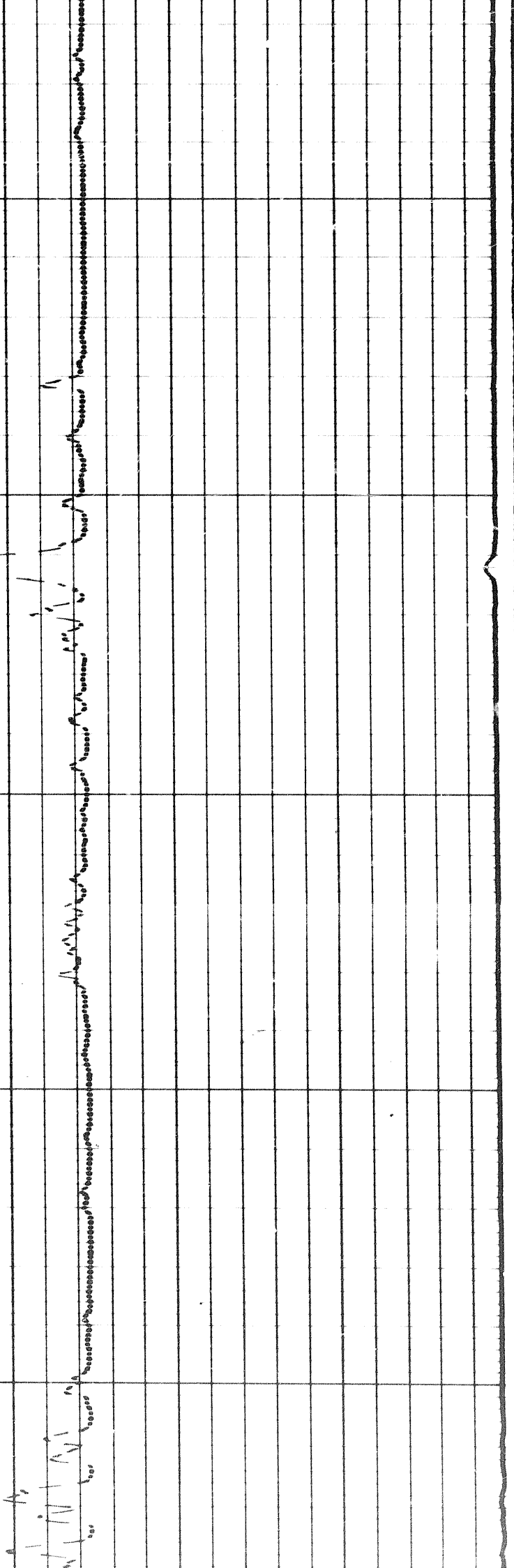
4100

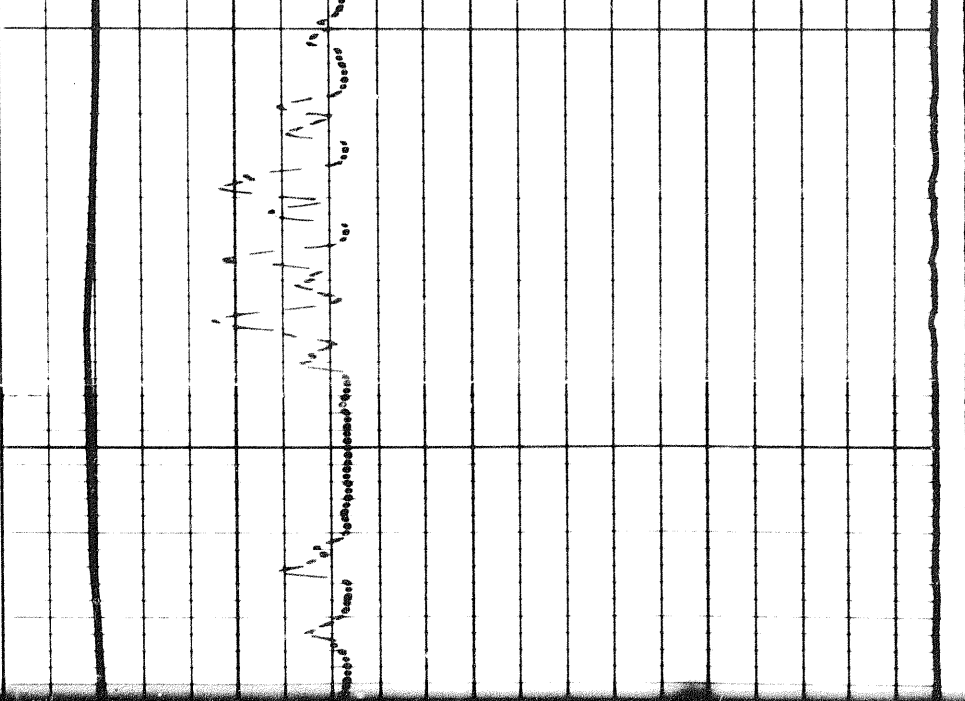
4100



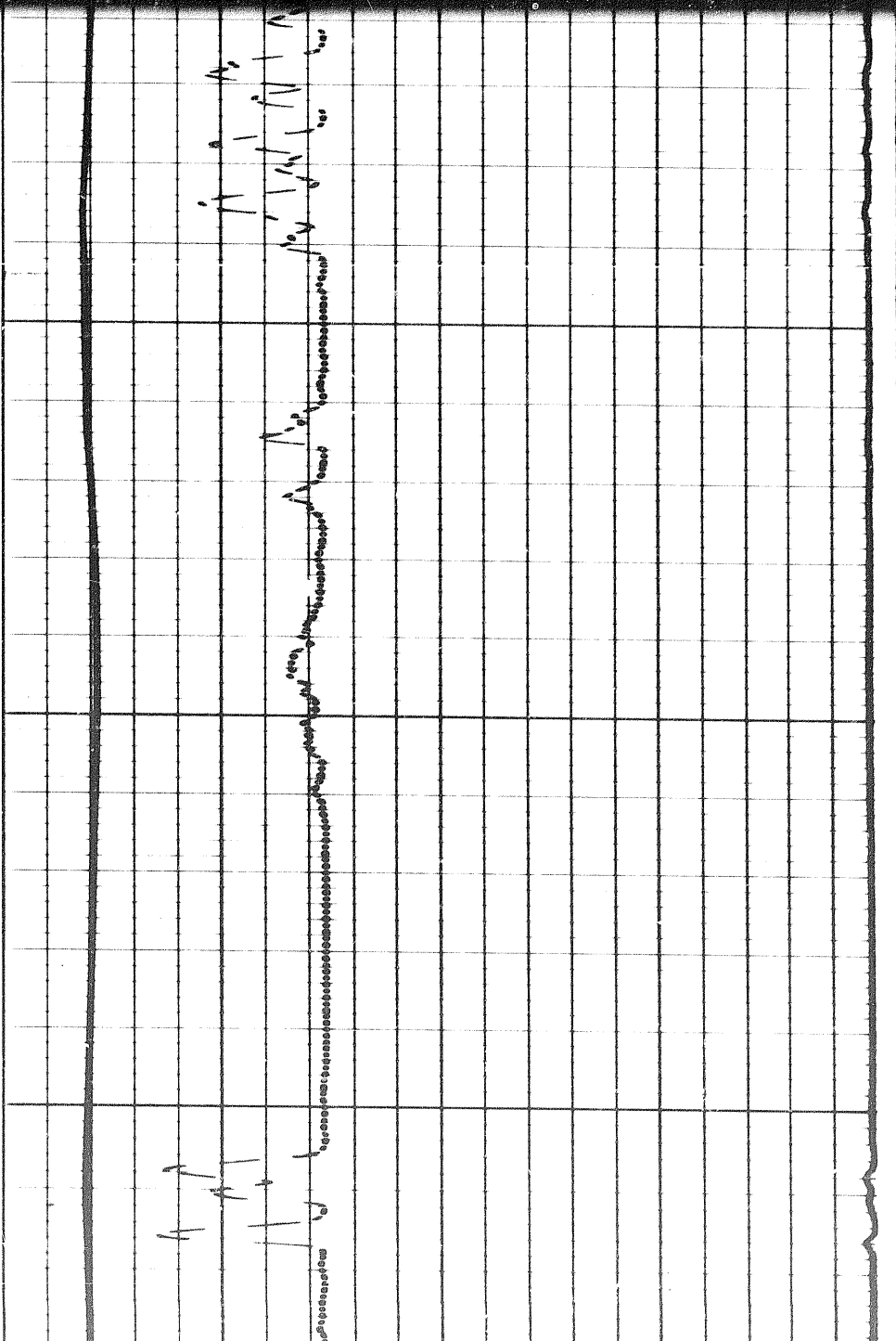
4200

4300



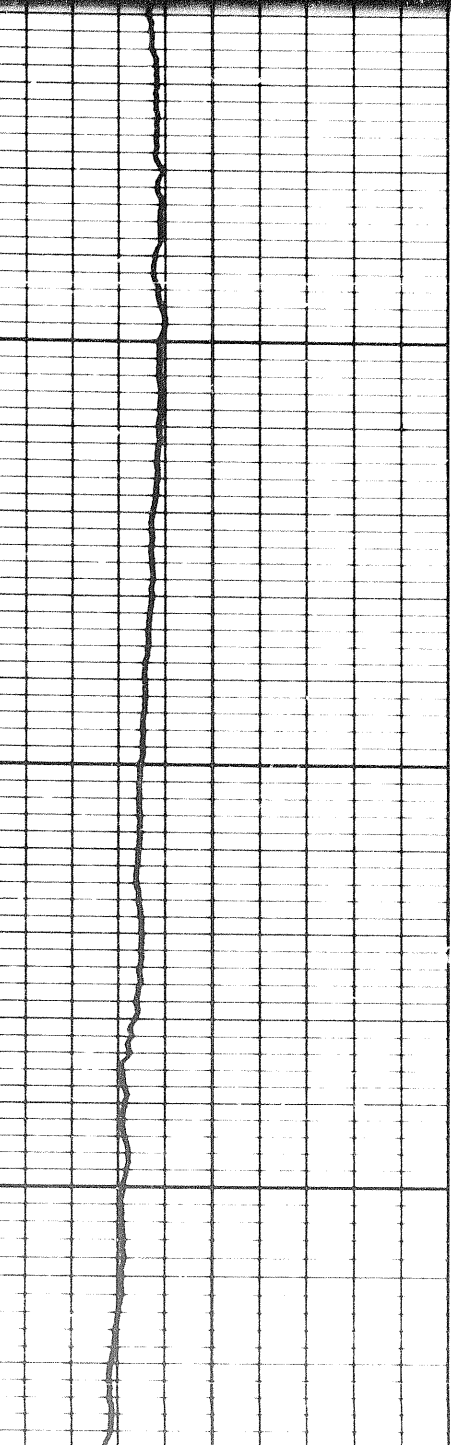
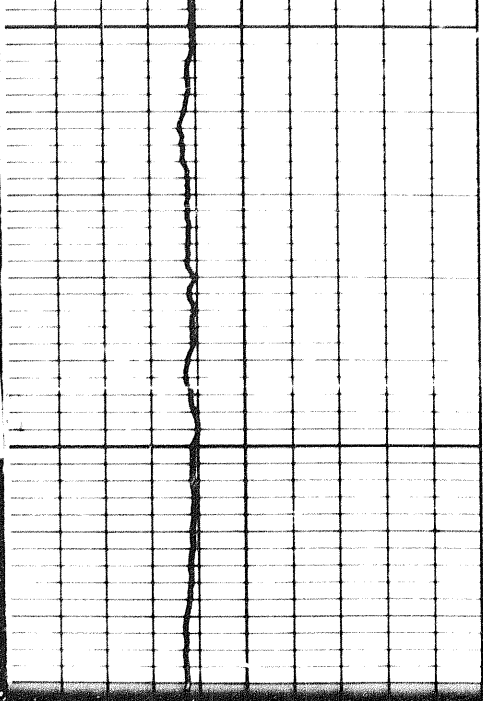


4 400



4 400

4 500

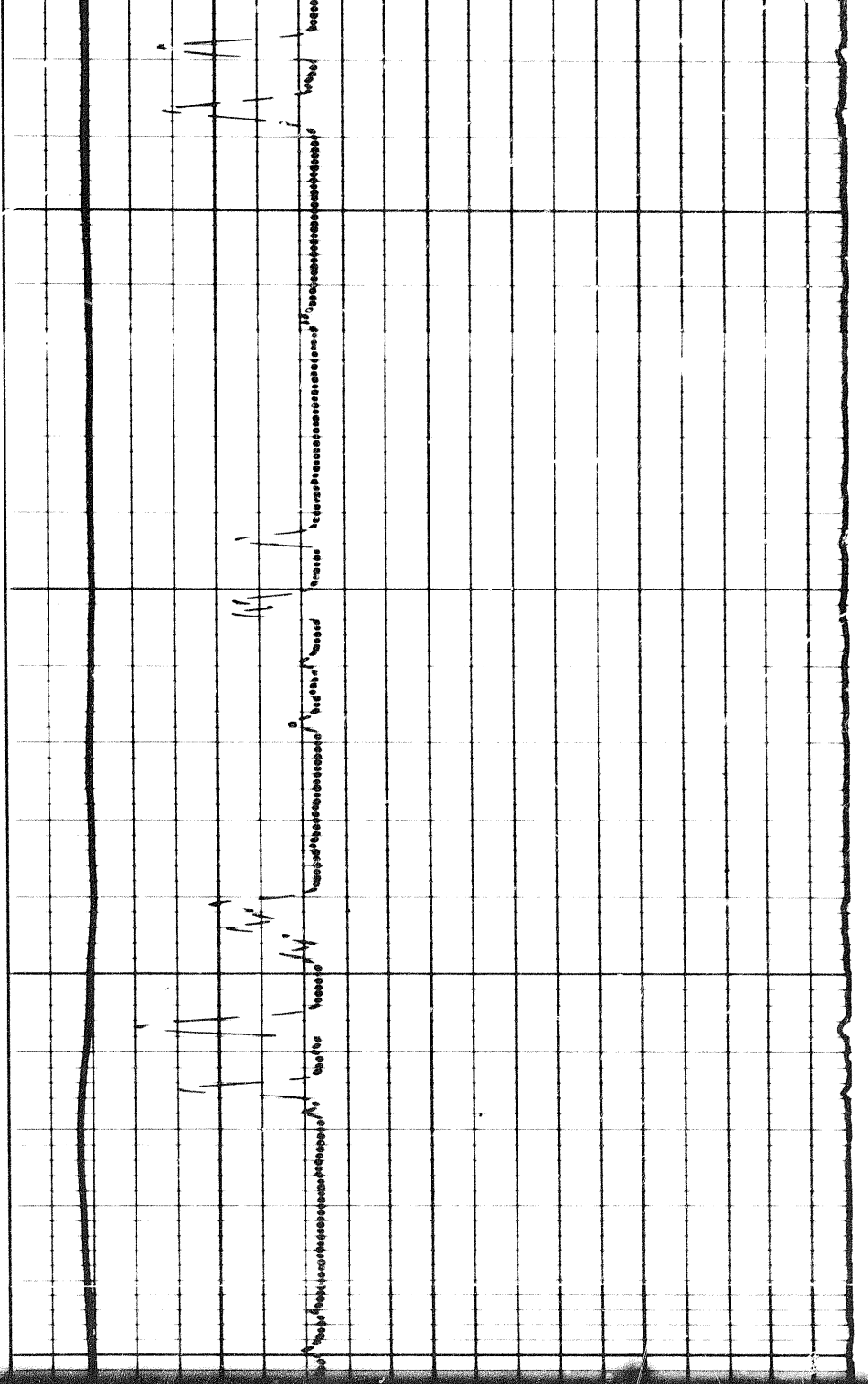


4 500

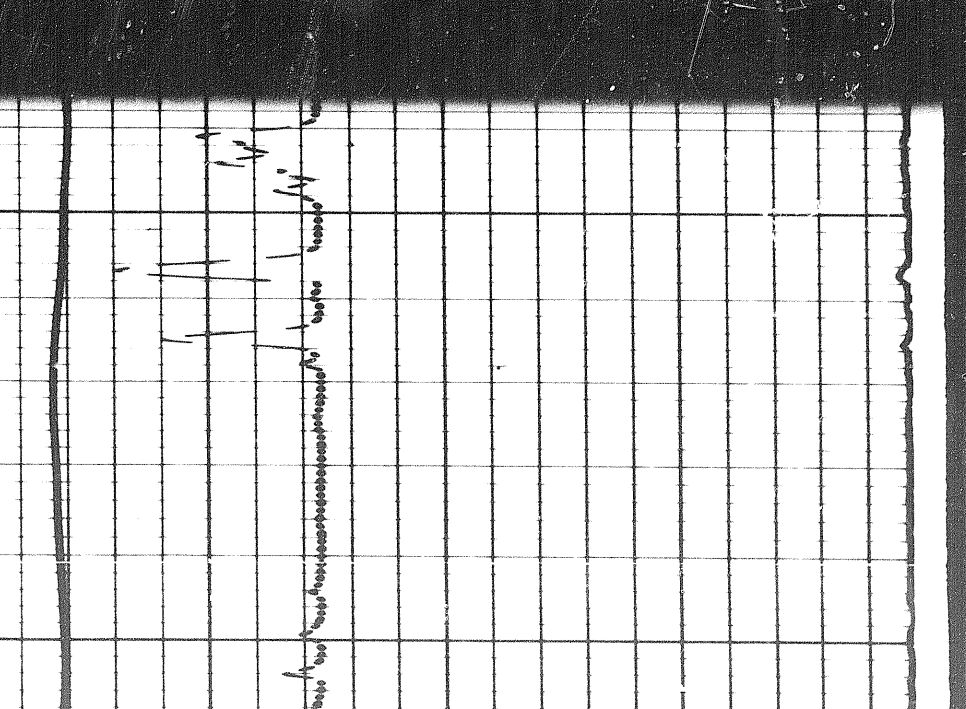
4 600

4 700

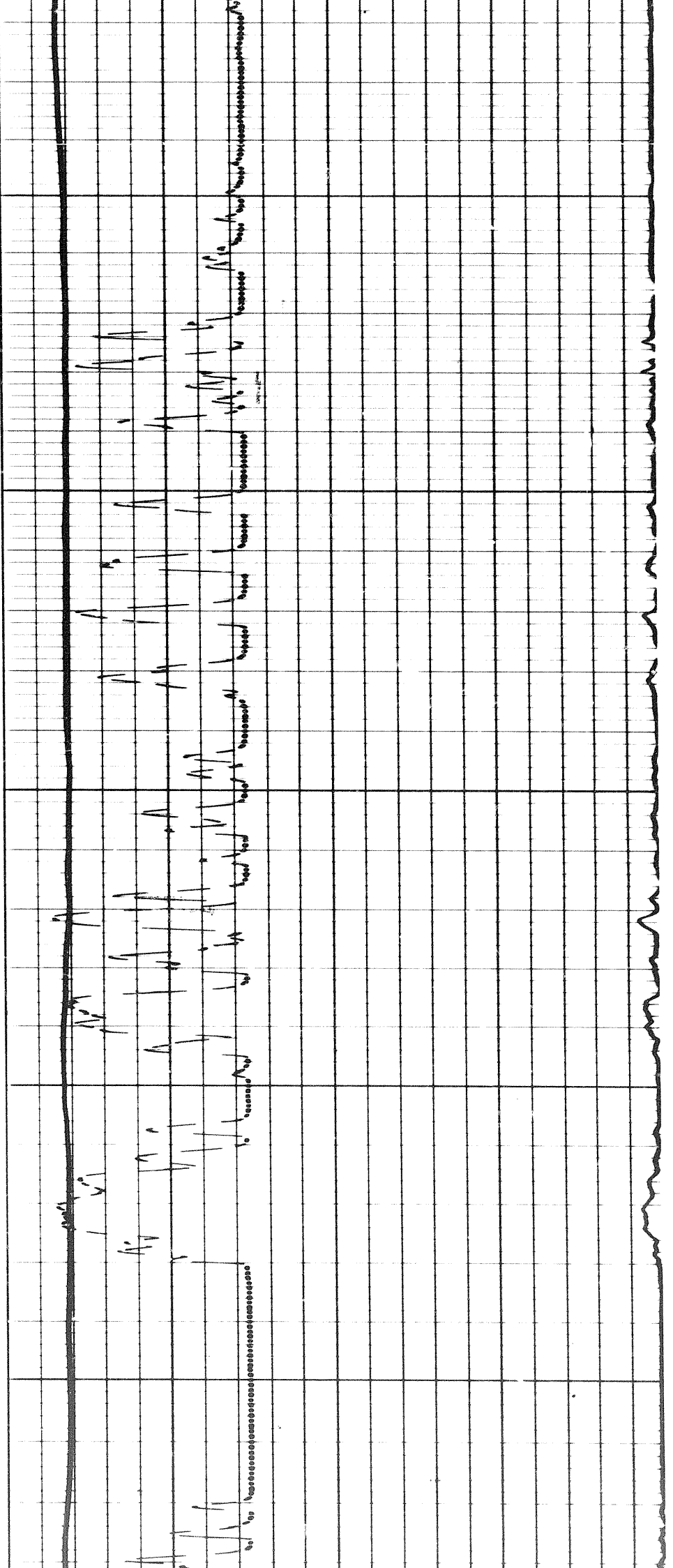




4800



4900



4900

5000

5100

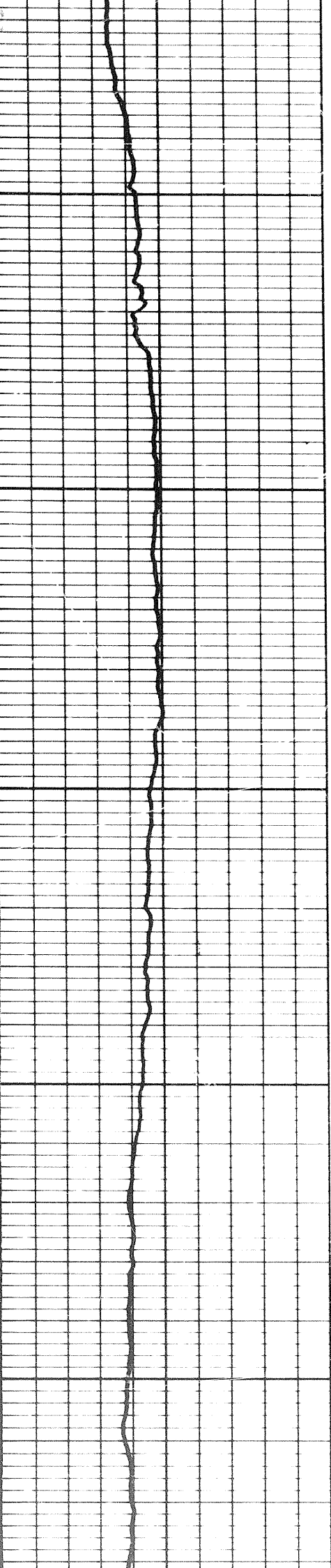
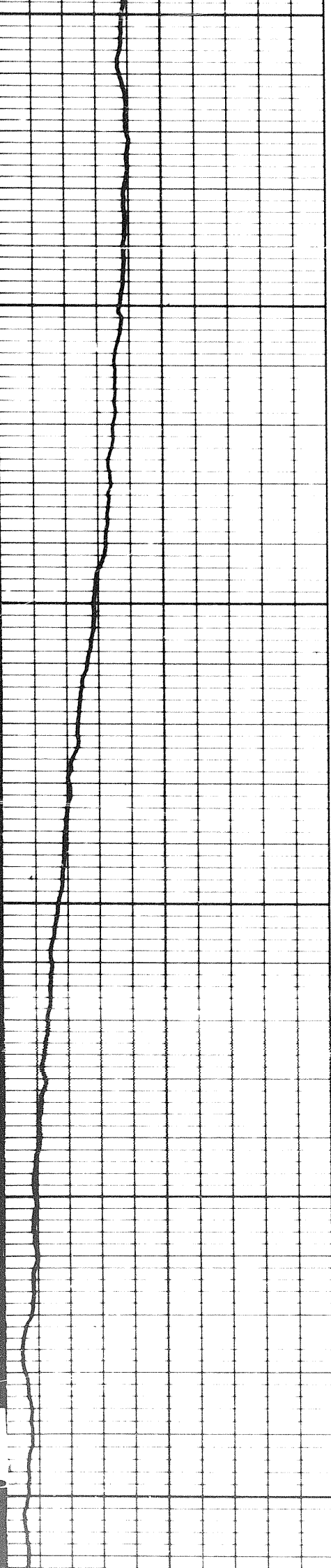
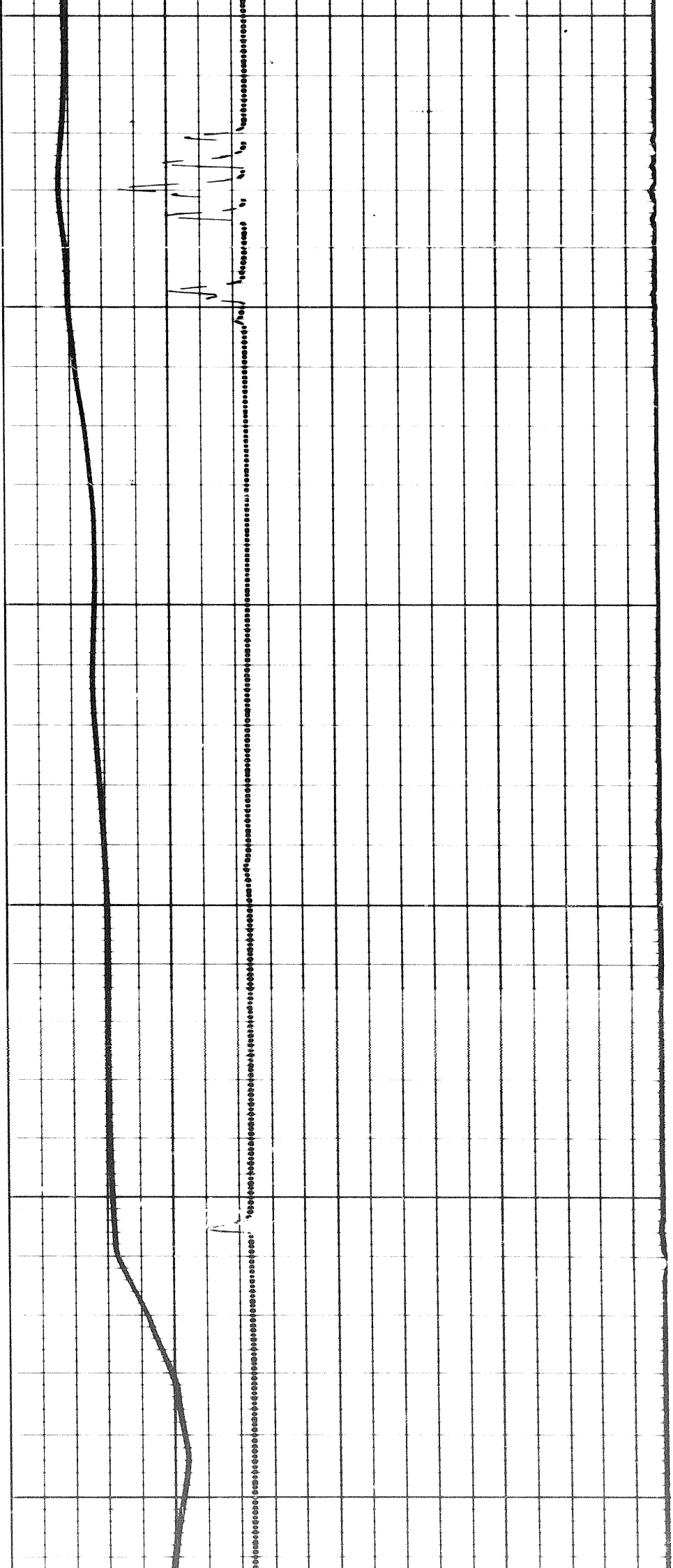


FIG 100

5200

5300



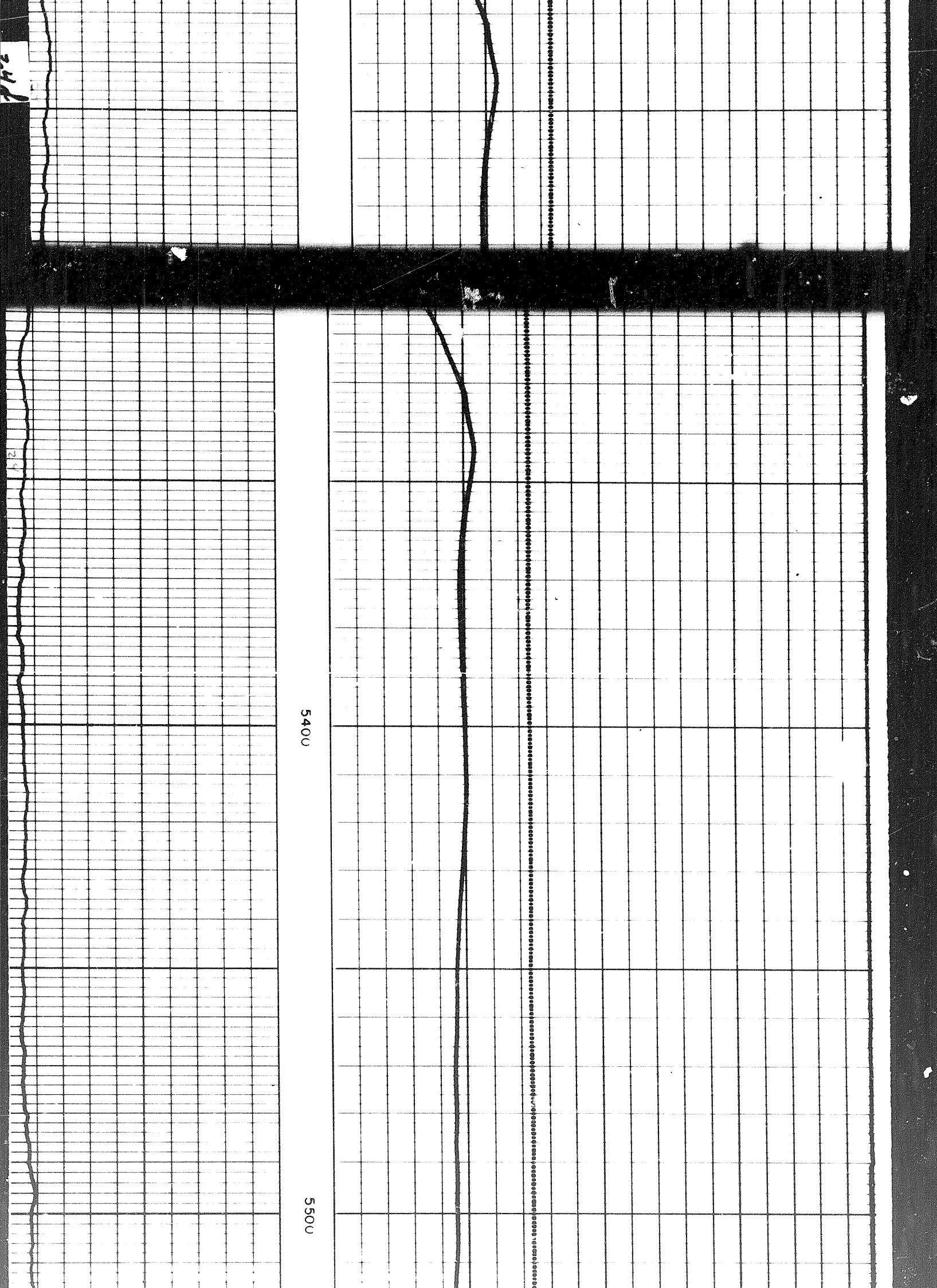
248

7/12

7/12

5400

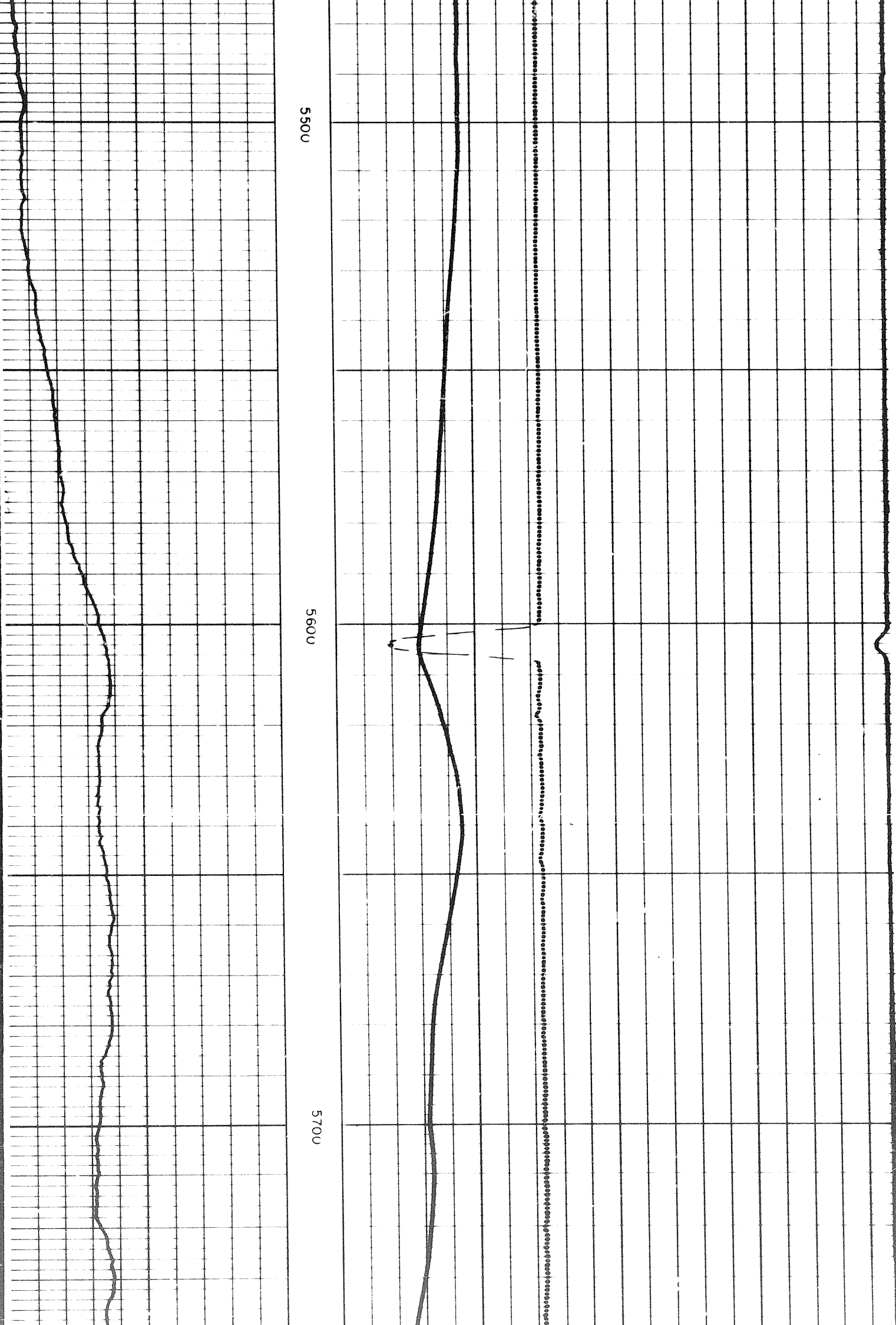
5500



5500

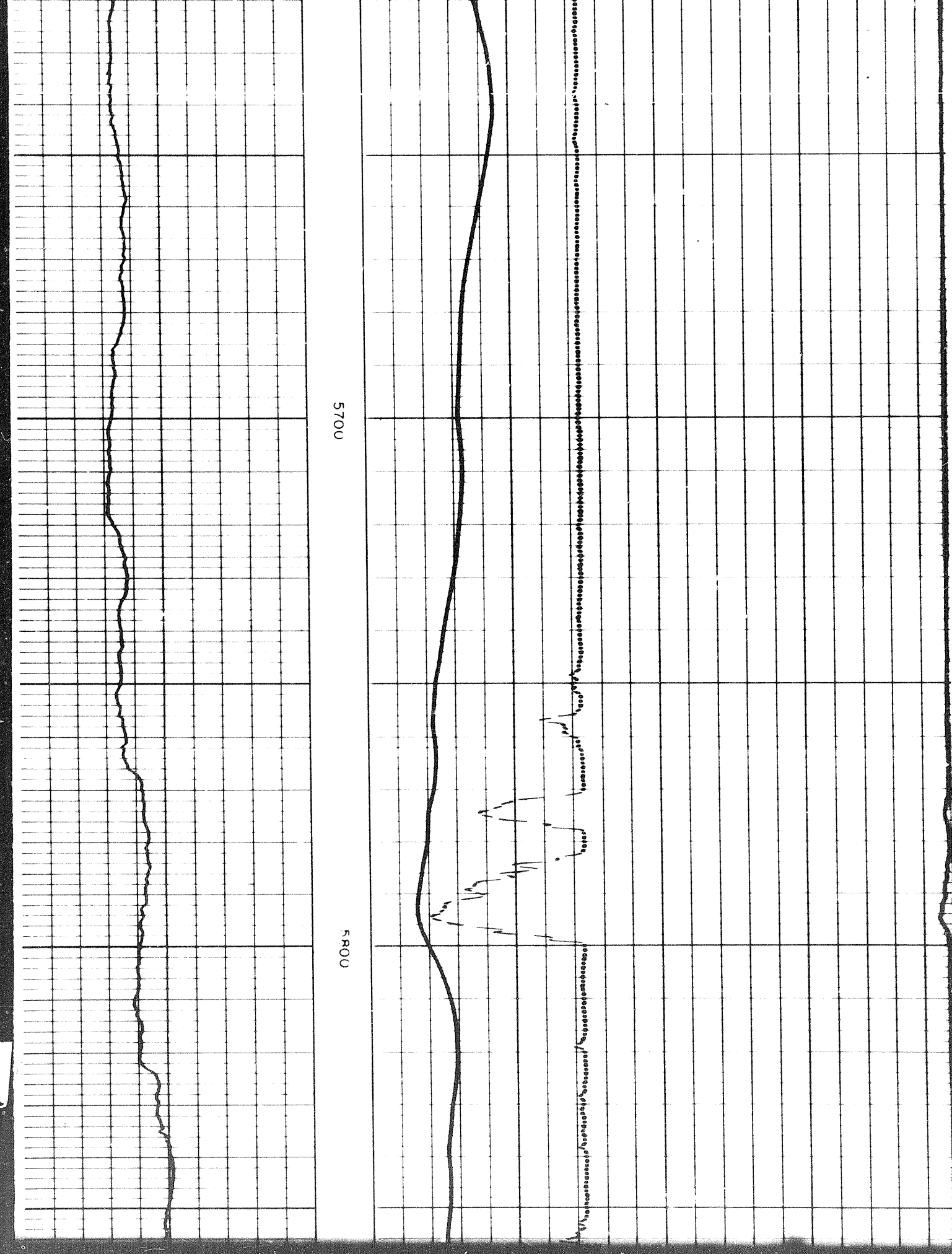
5600

5700



5700

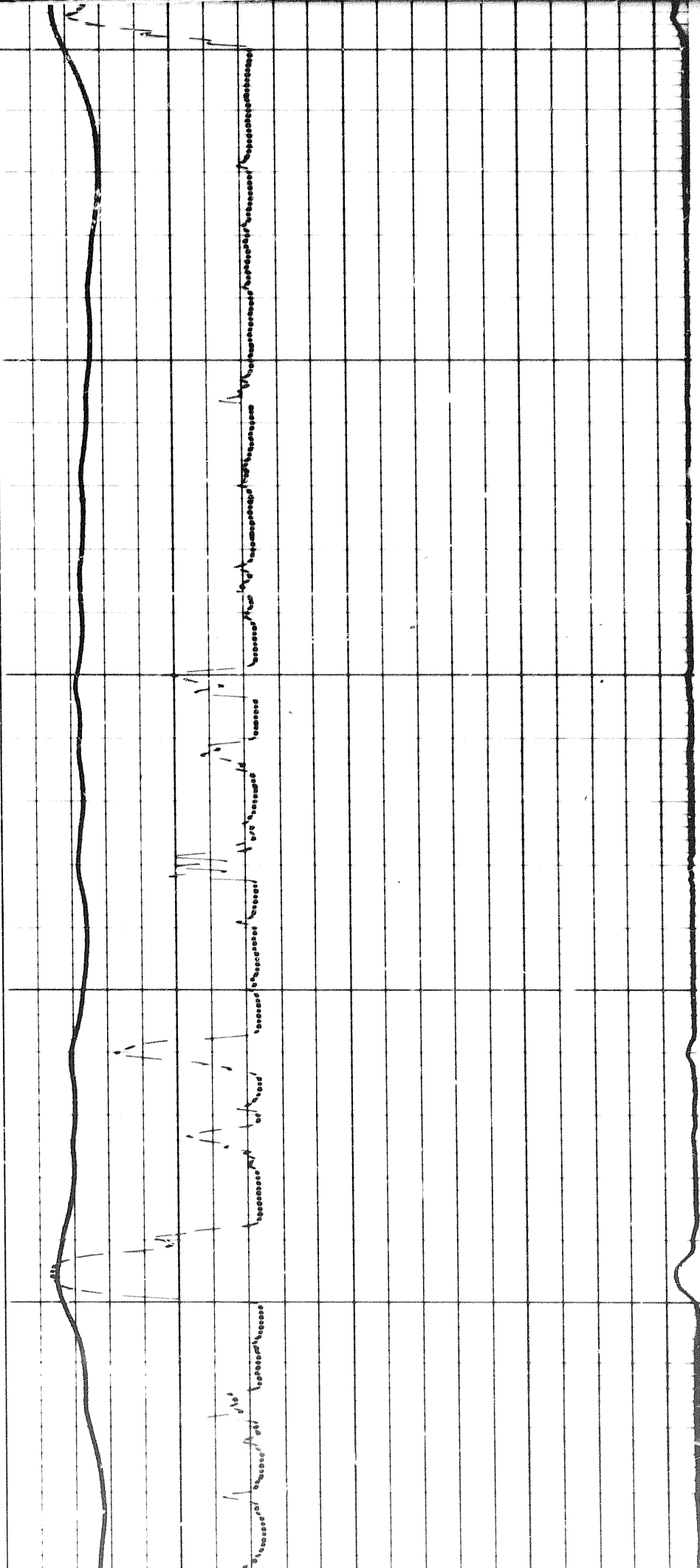
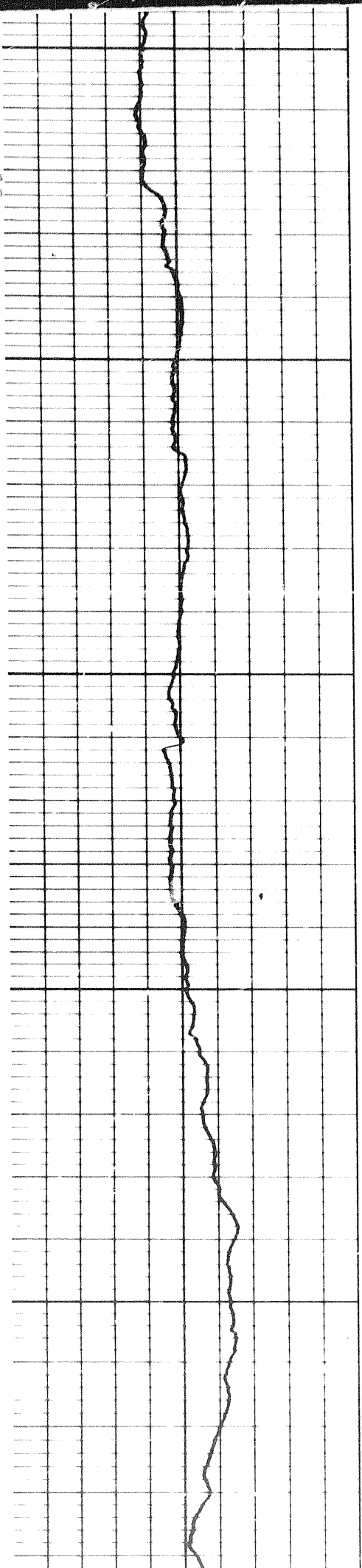
5800

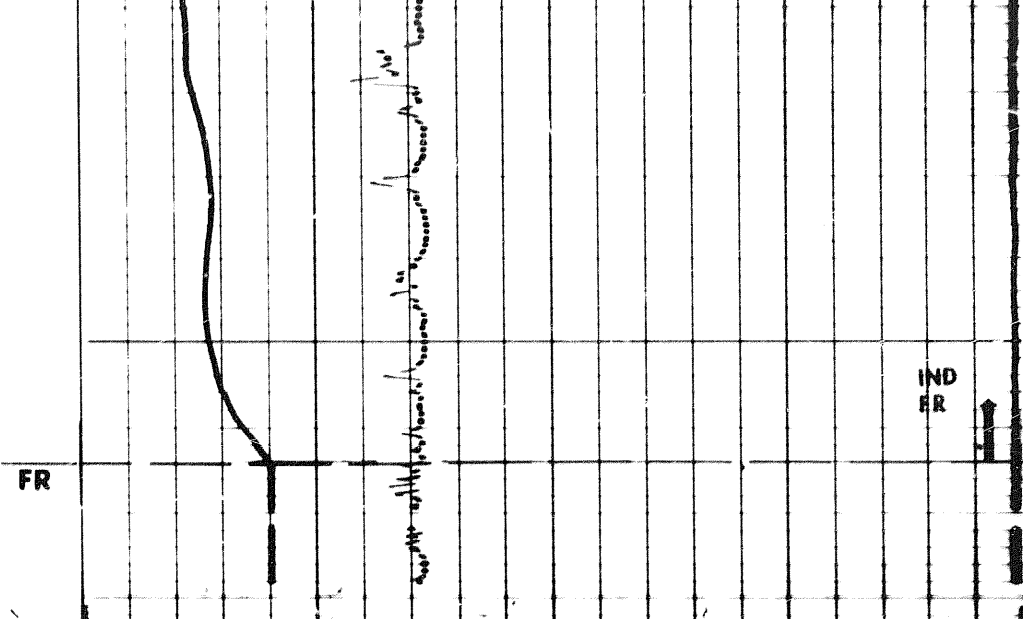
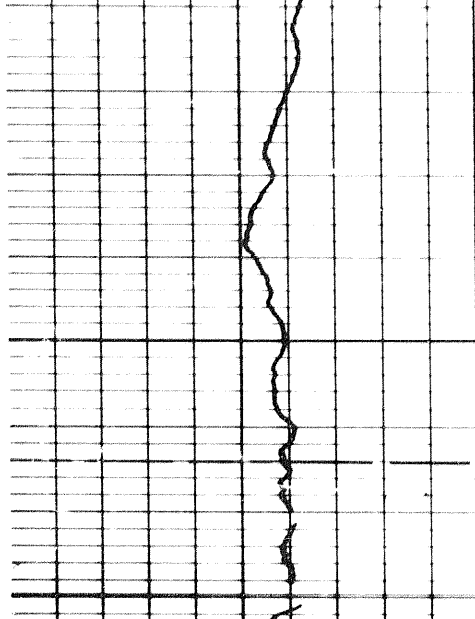


5800

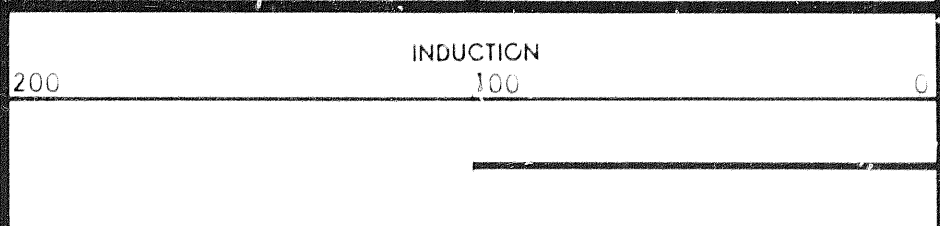
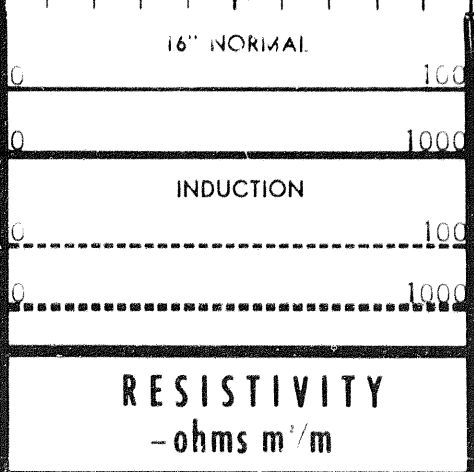
5900

6000





RUN #2
20
↔



SPONTANEOUS-POTENTIAL
millivolts

DEPTHS

CONDUCTIVITY
millimhos /m = $\frac{1000}{\text{ohms m}^2/\text{m}}$

DETAIL LOG
5" = 100'

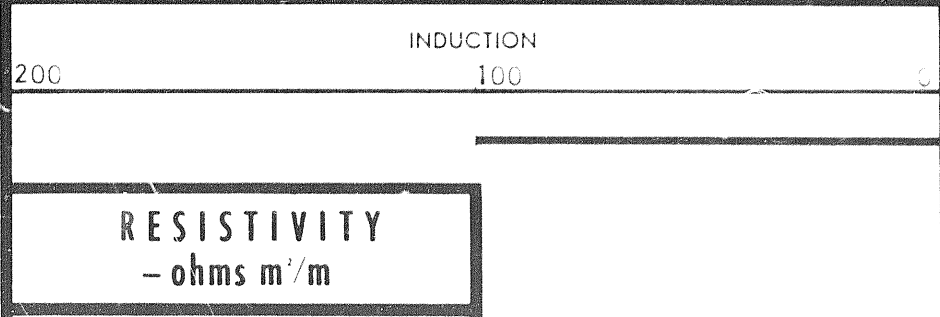
SPONTANEOUS-POTENTIAL
millivolts

DEPTHS

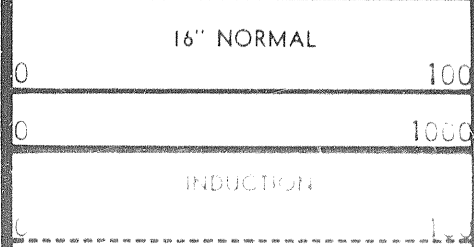
CONDUCTIVITY
millimhos /m = $\frac{1000}{\text{ohms m}^2/\text{m}}$

20
↔

S.P. RECORDED WITH ES
SONDE, REFERENCE
ELECTRODE DOWN HOLE,
TRACED.



RUN #3



RUN #3

- ohms m/m

16" NORMAL

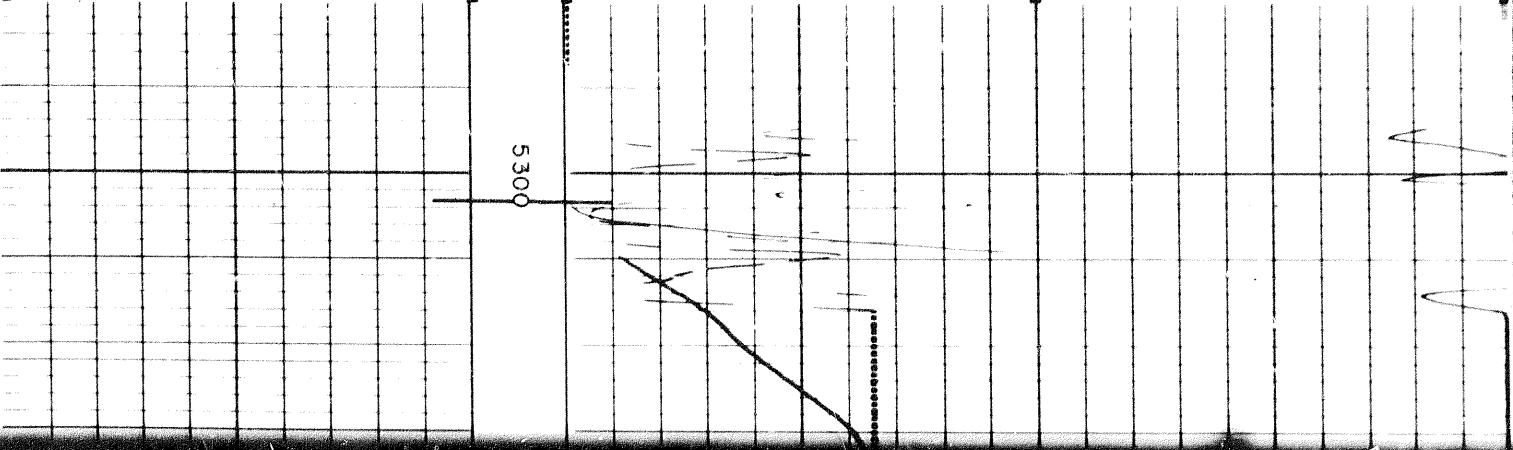
0 100

0 1000

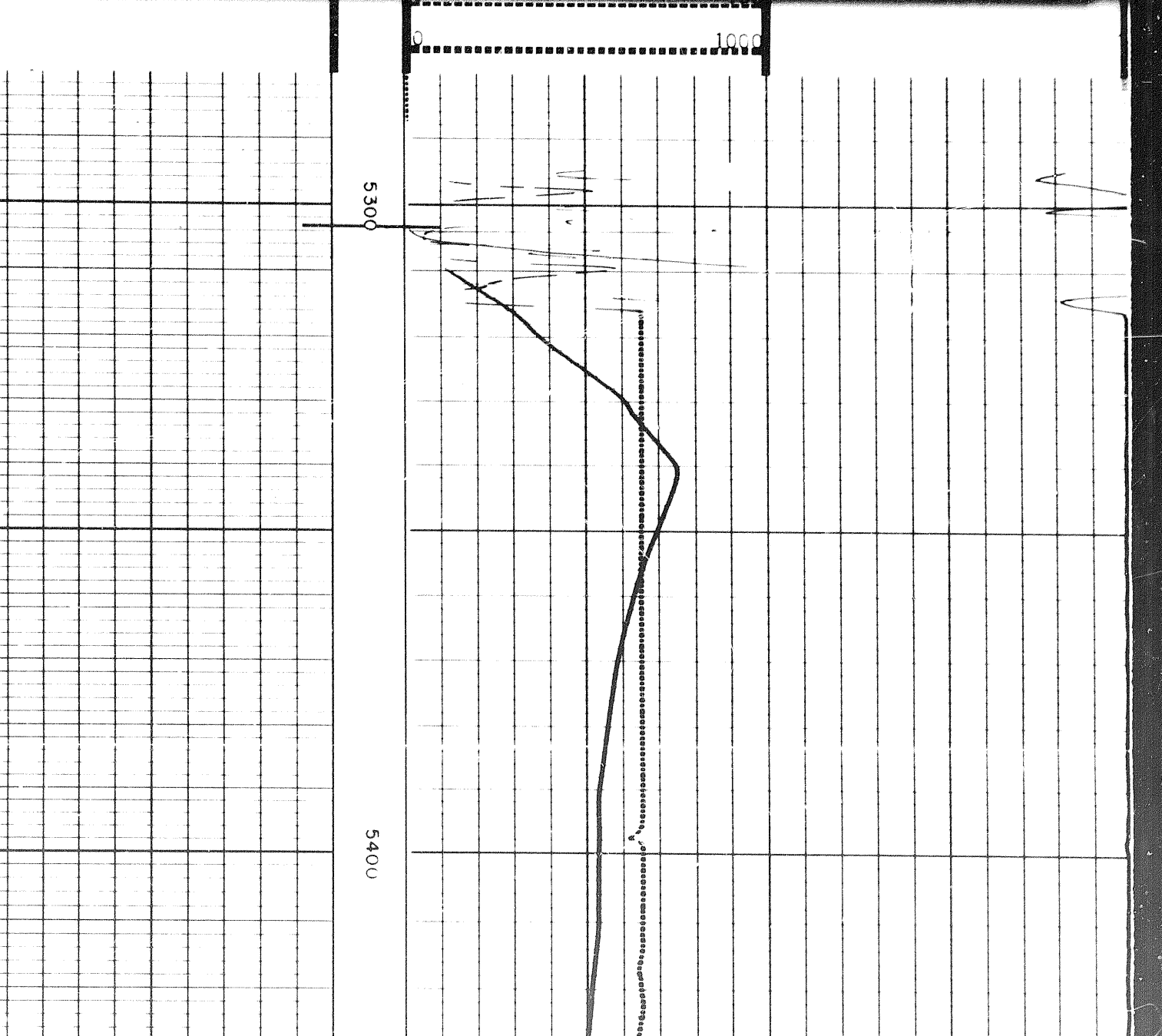
INDUCTION

0 100

0 1000



5300



5300

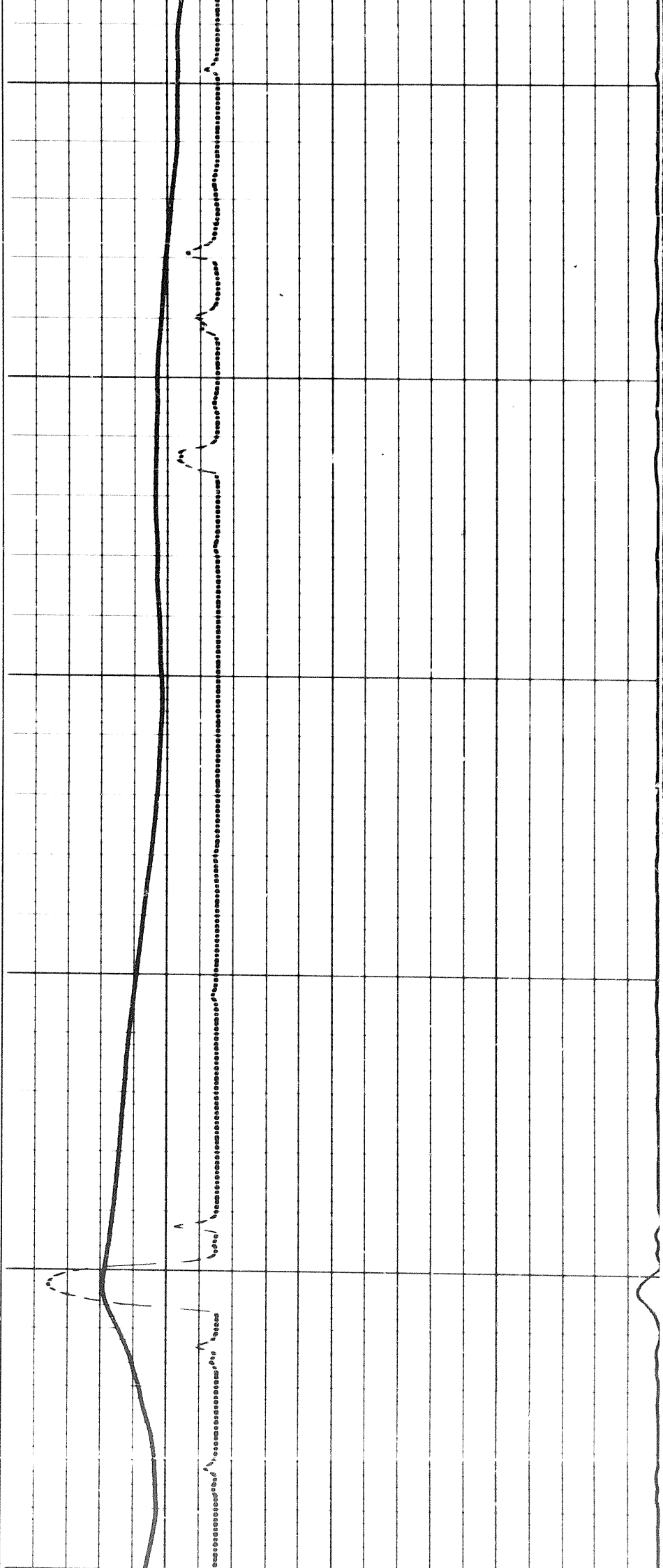
5400

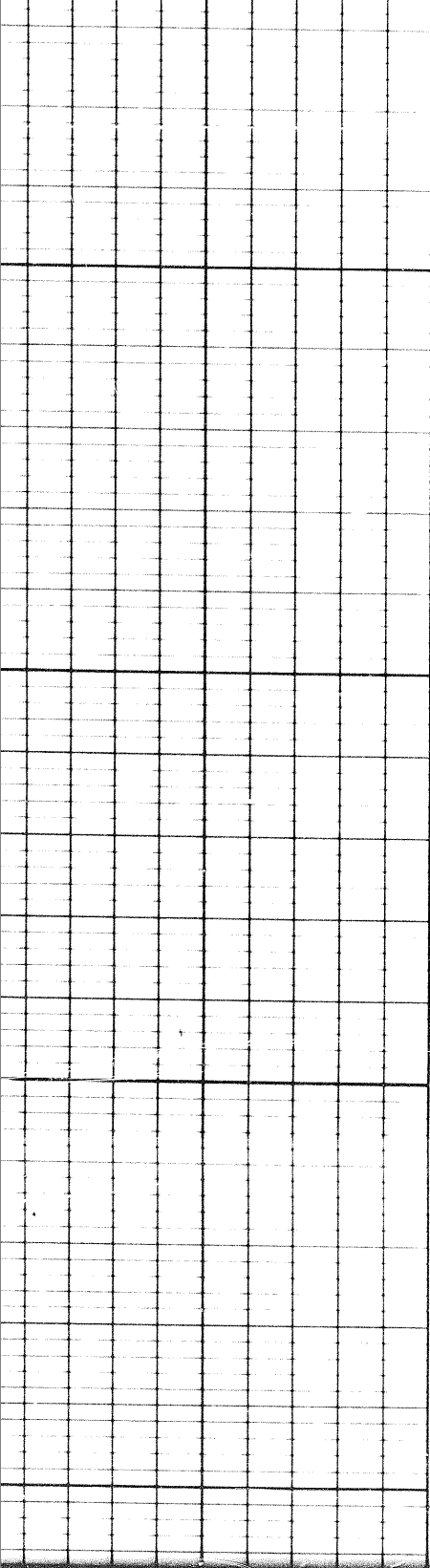
0 1000

5400

5500

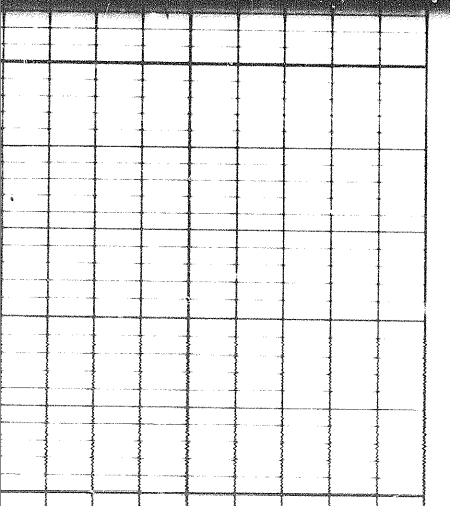
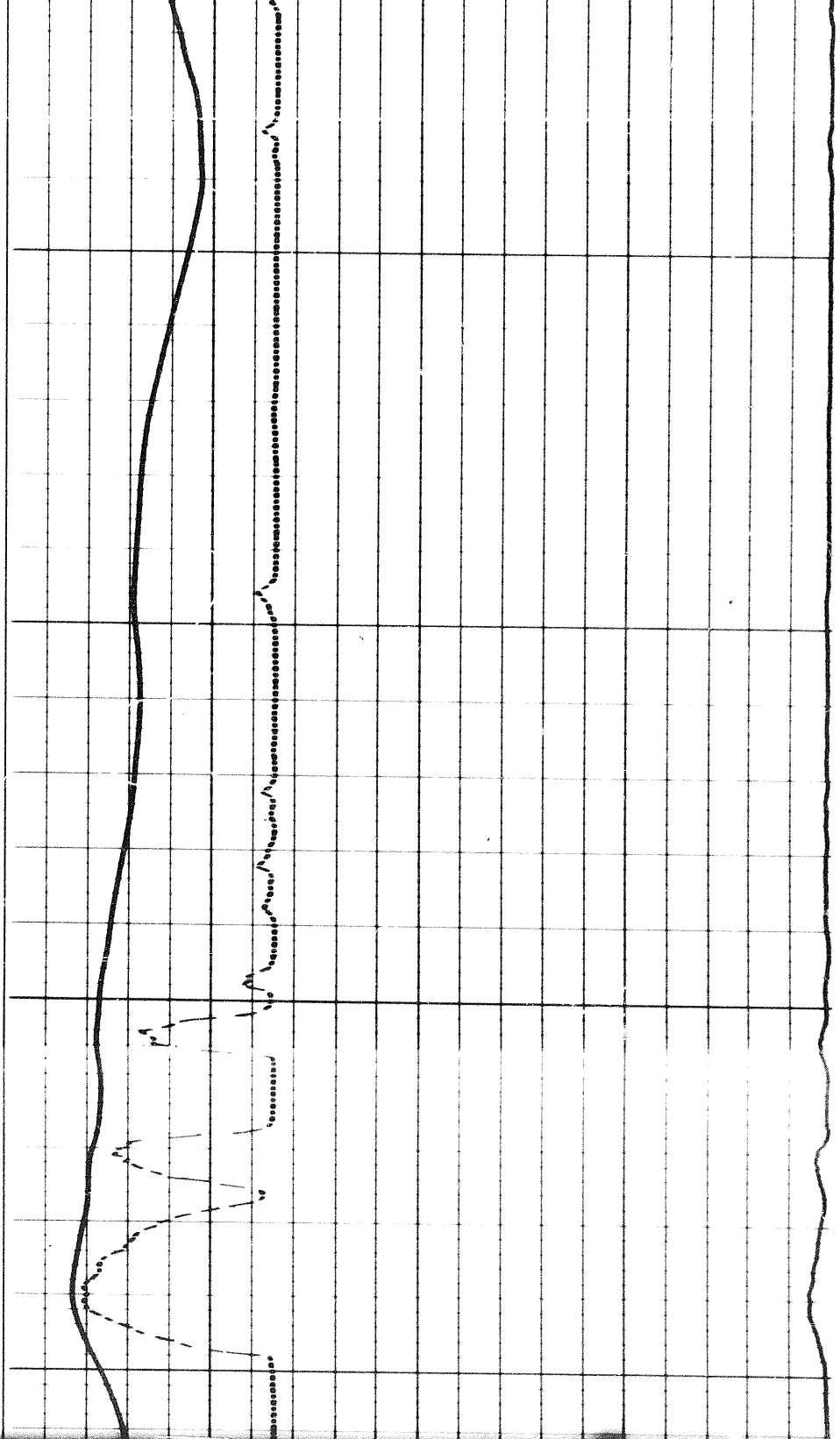
5600



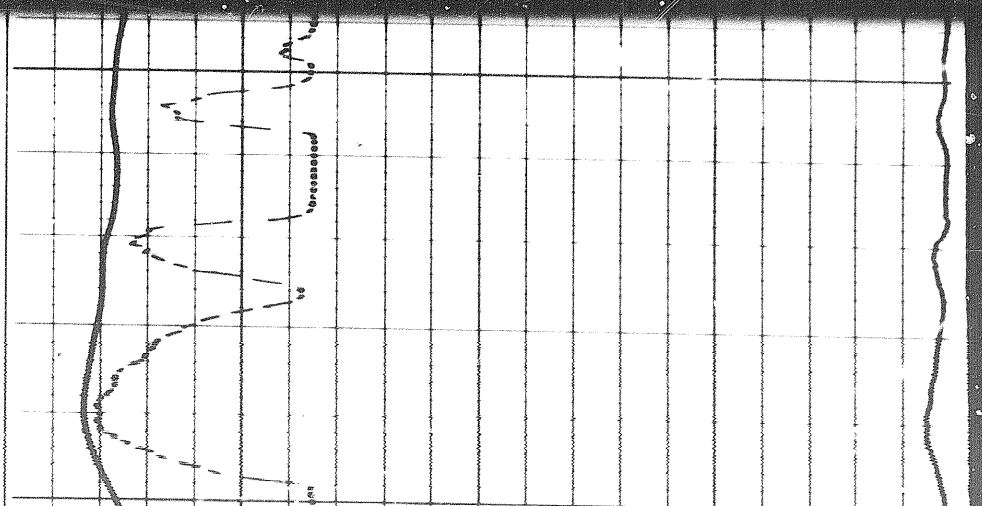


5700

5800



580



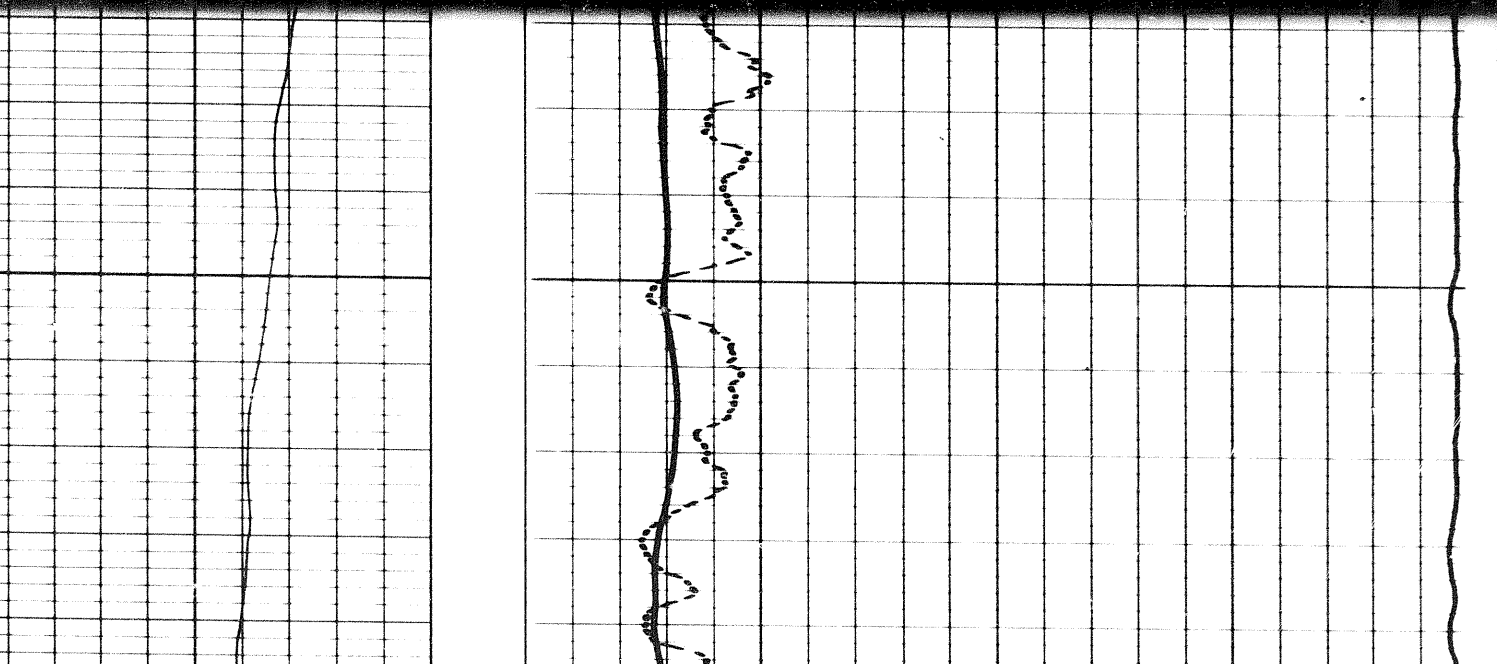
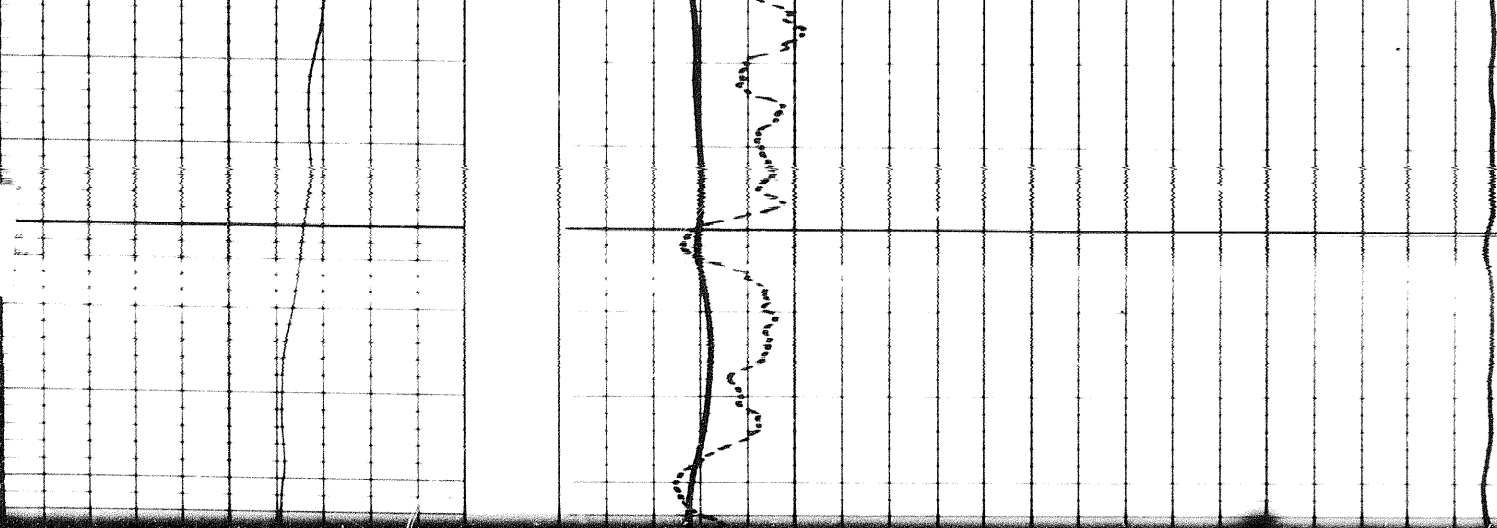
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5900

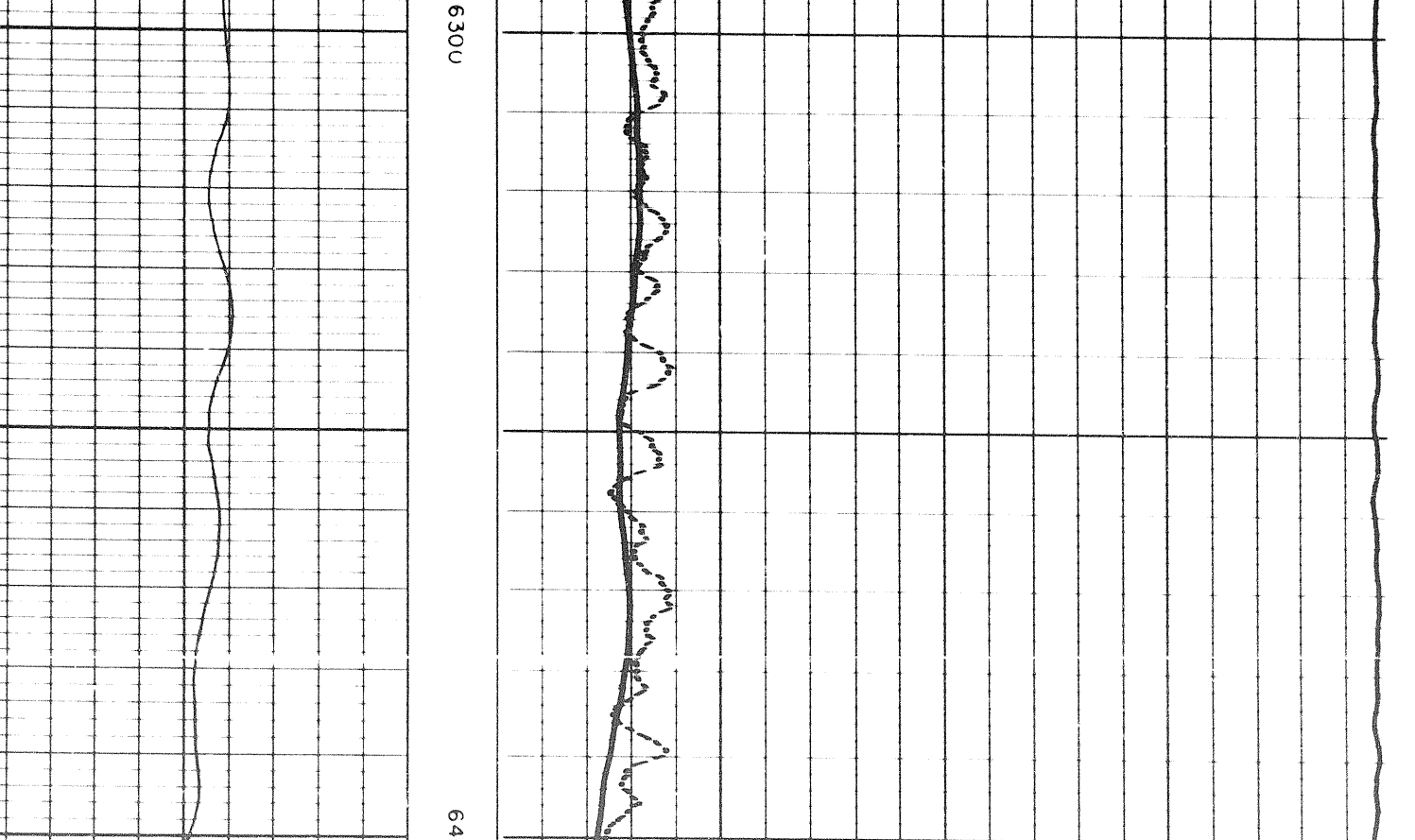
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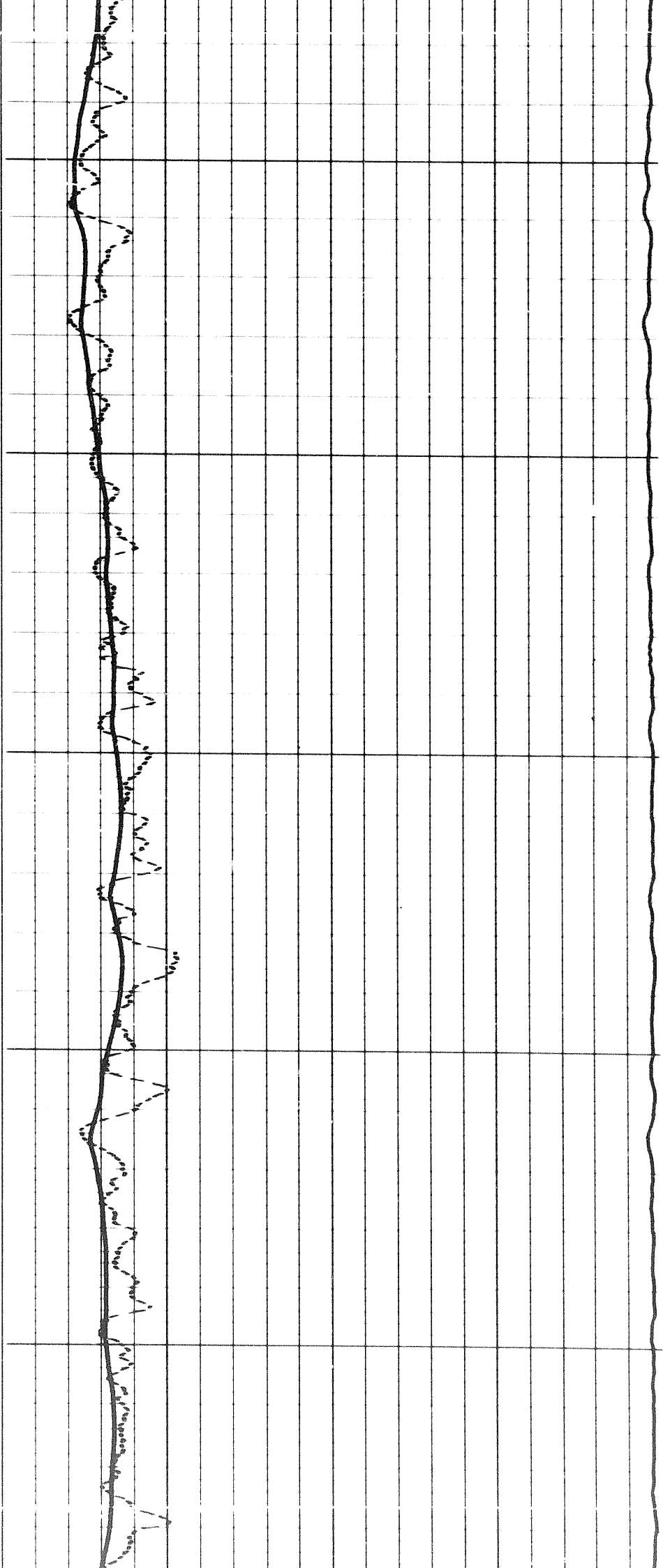
288



6300



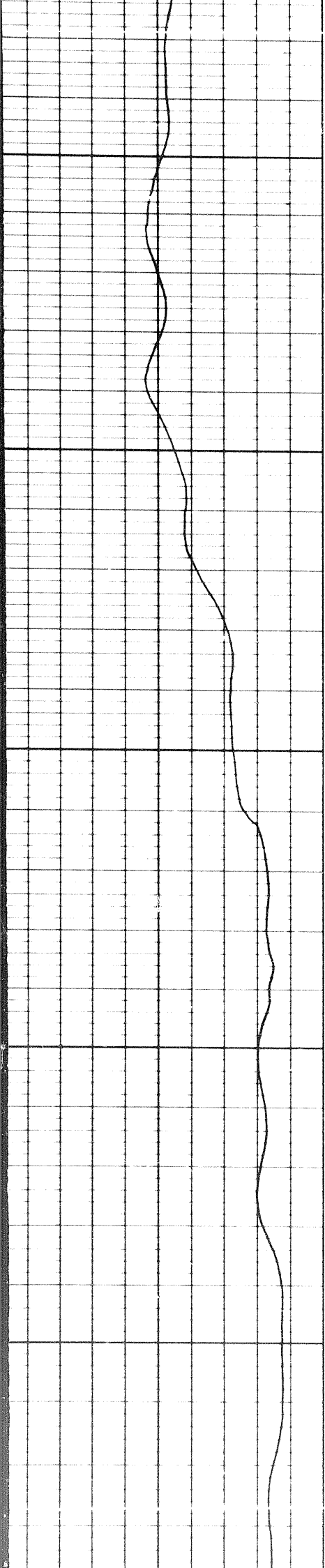
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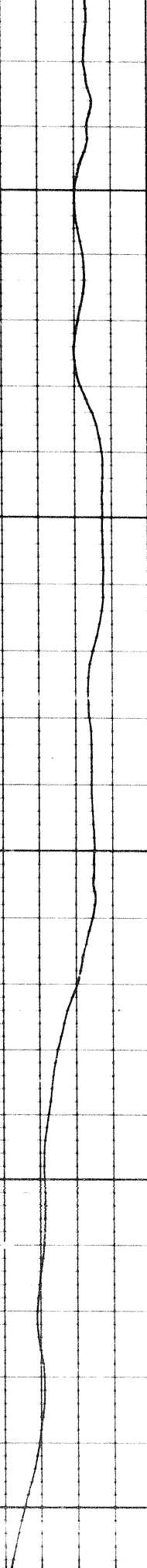
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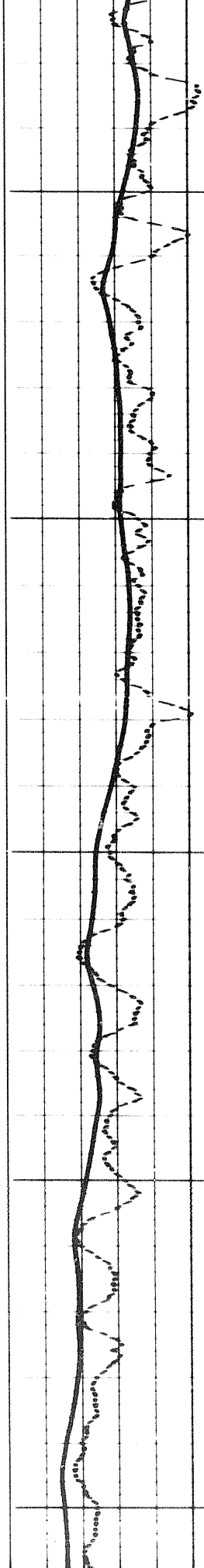


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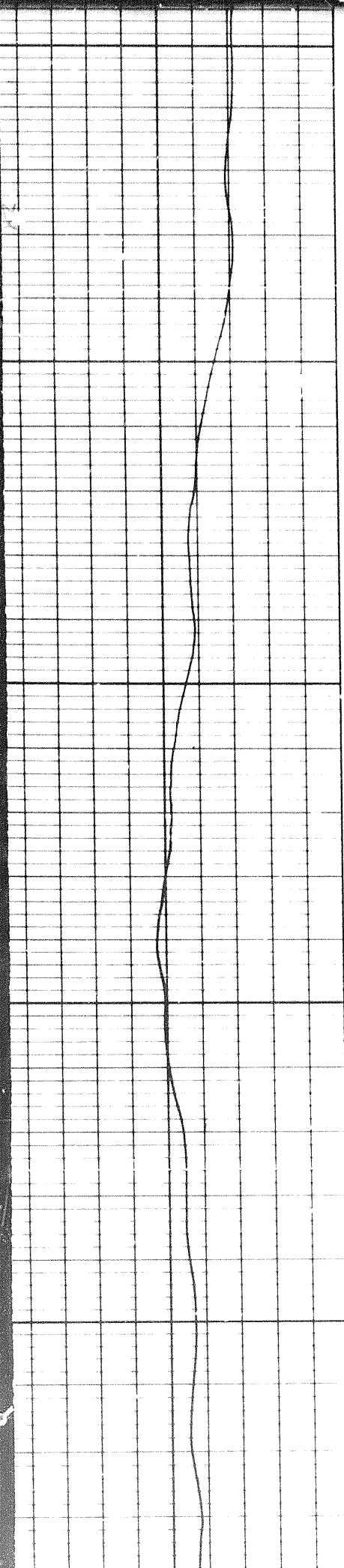
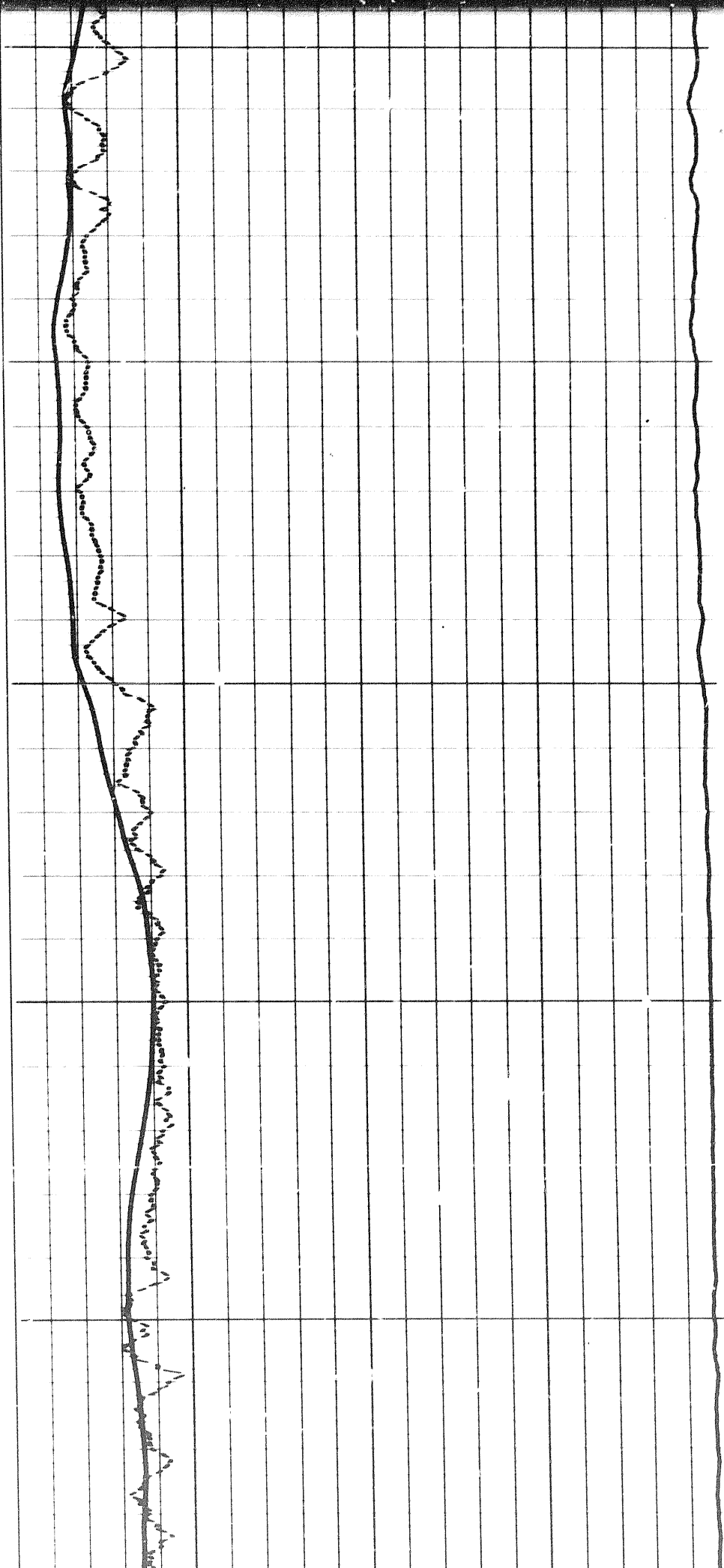
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6700

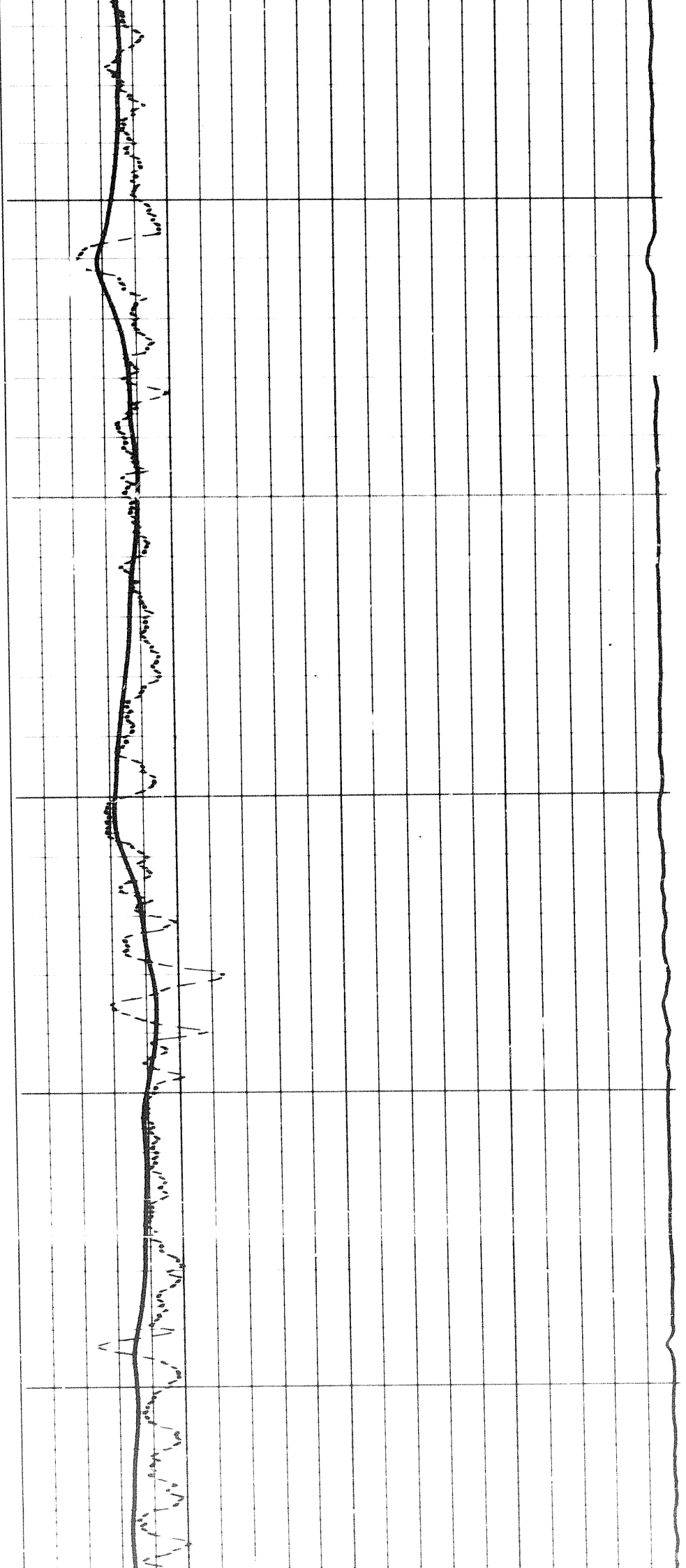
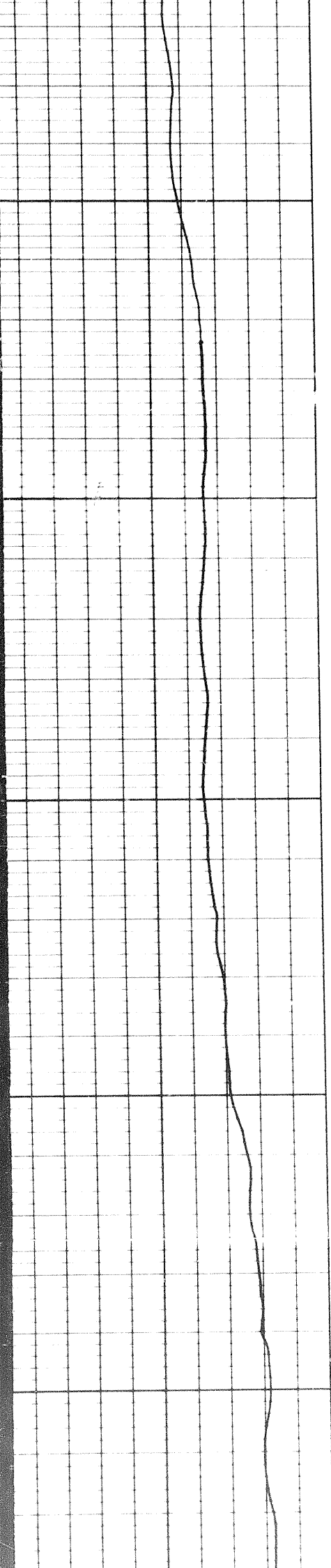
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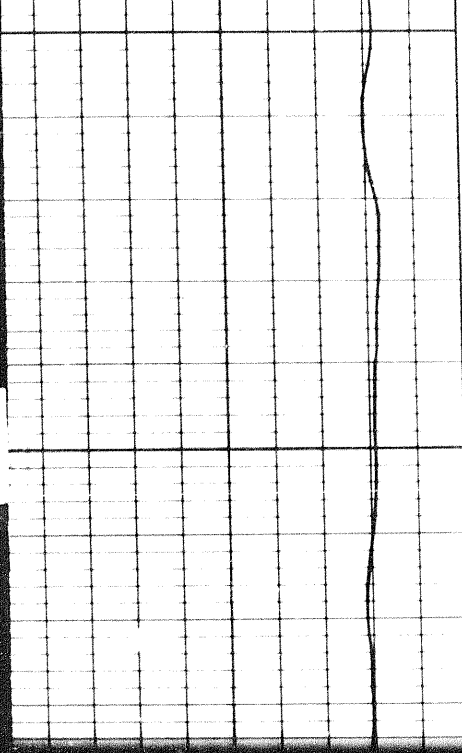


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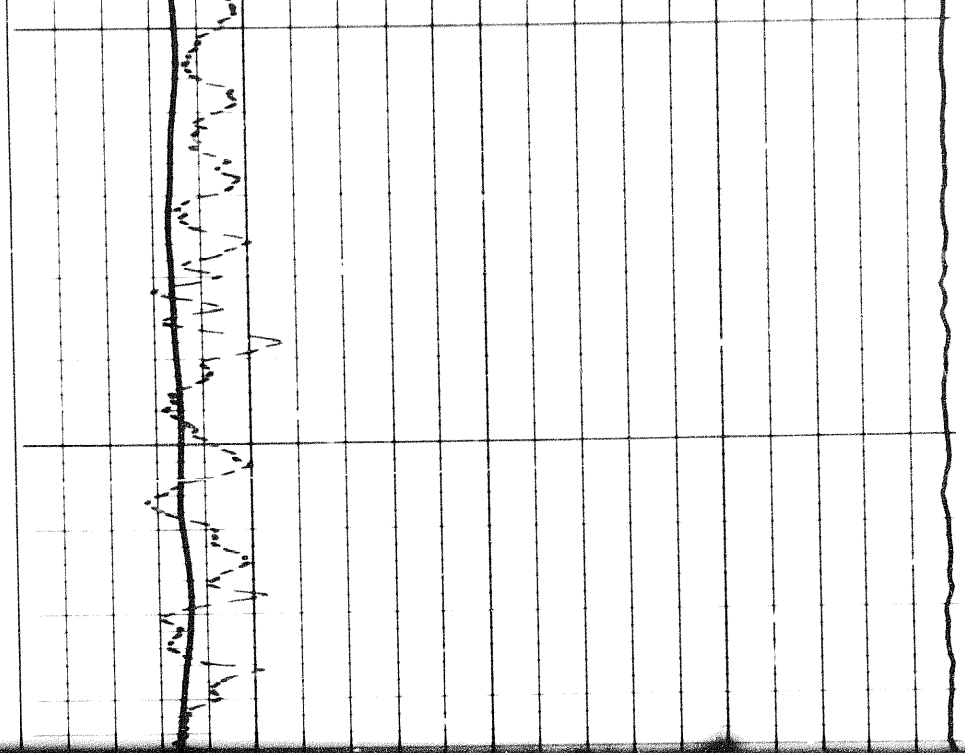
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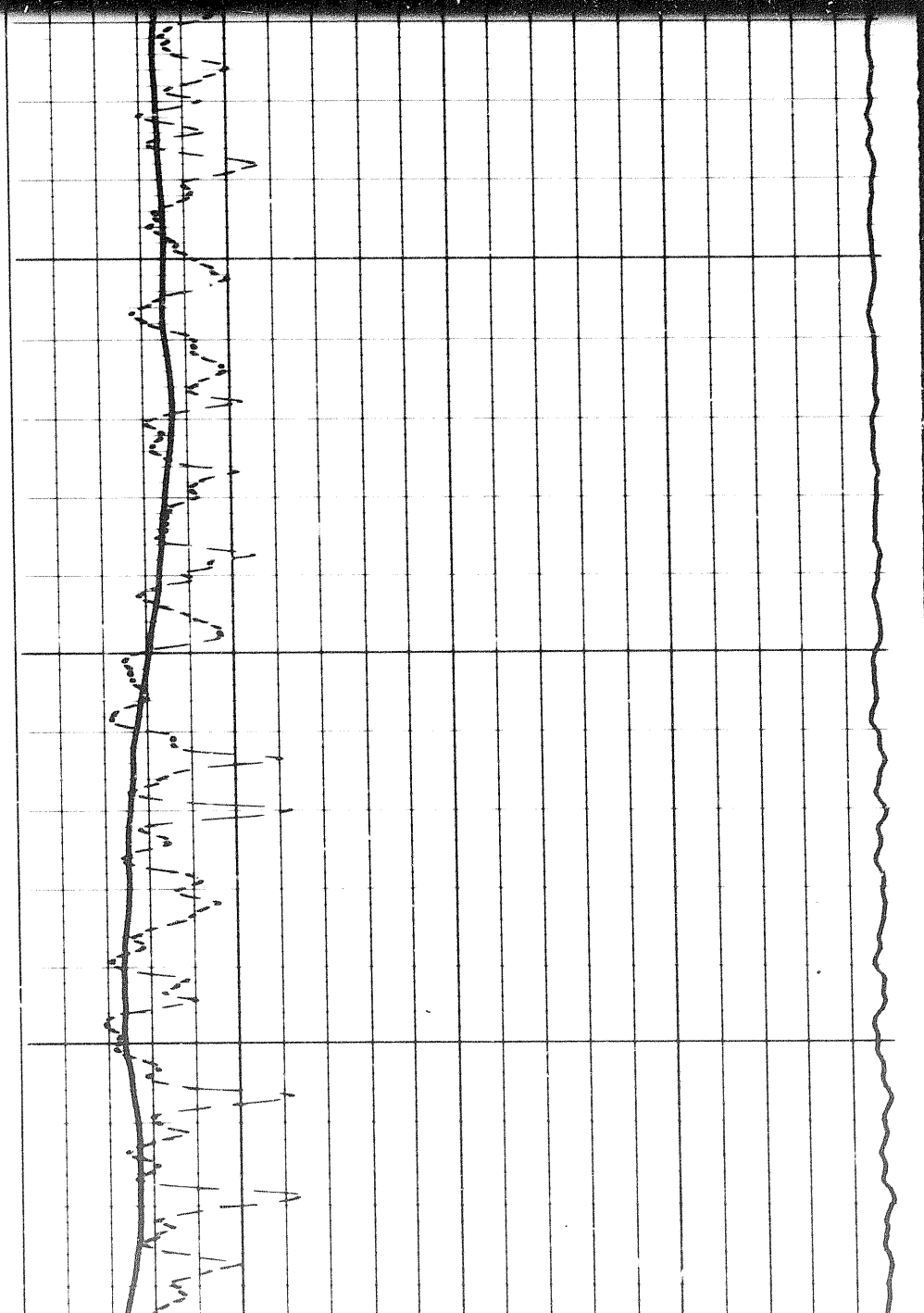
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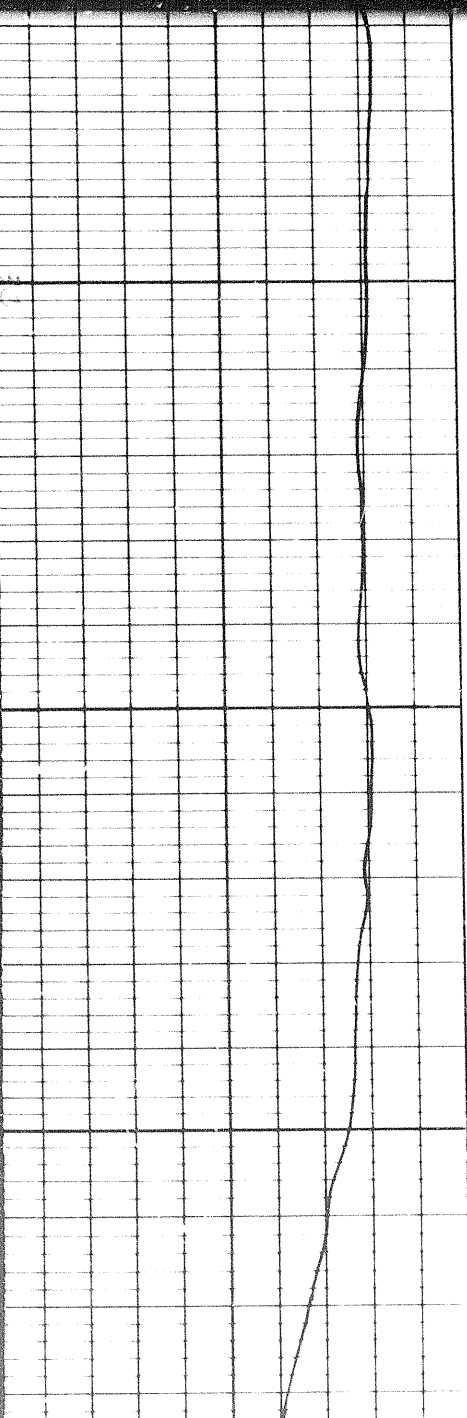
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7200

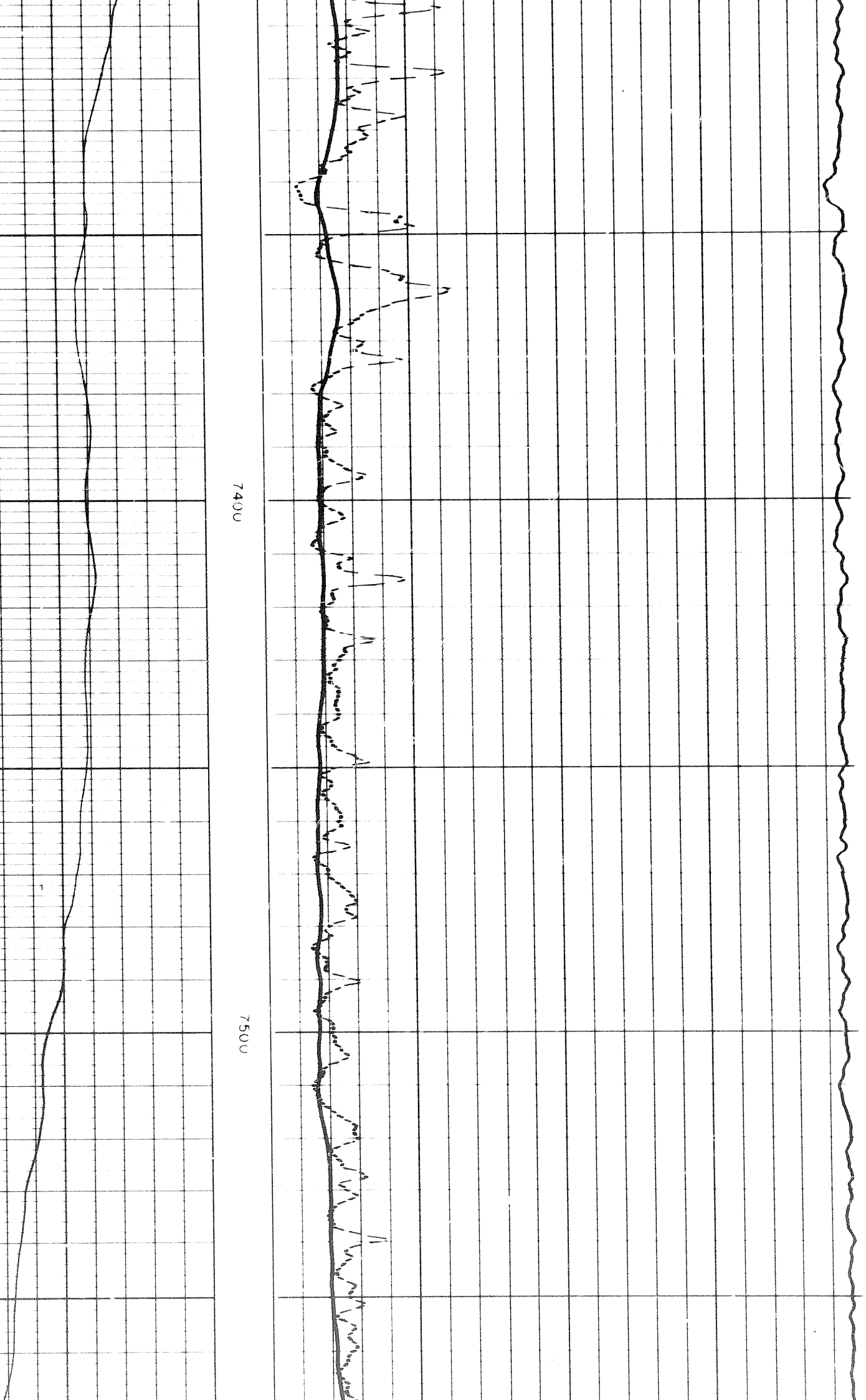


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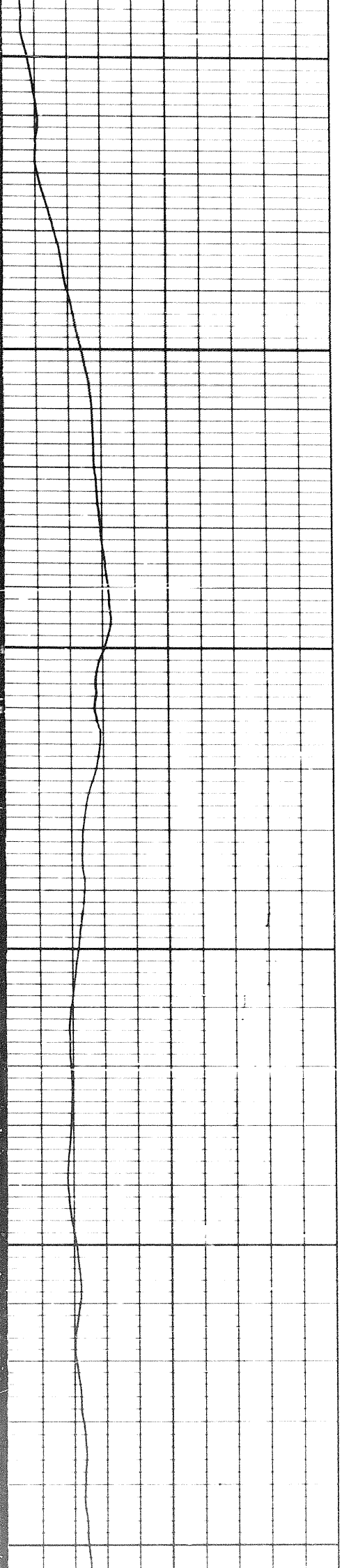
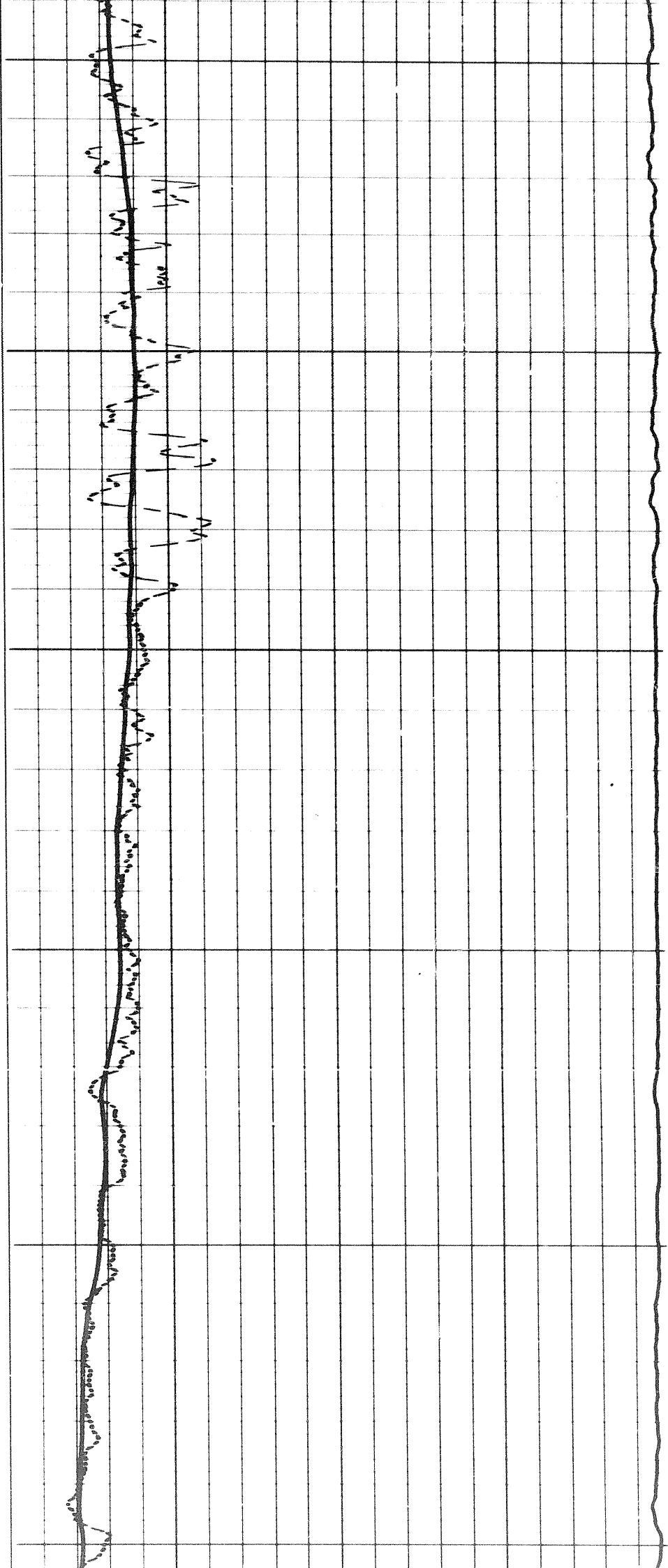
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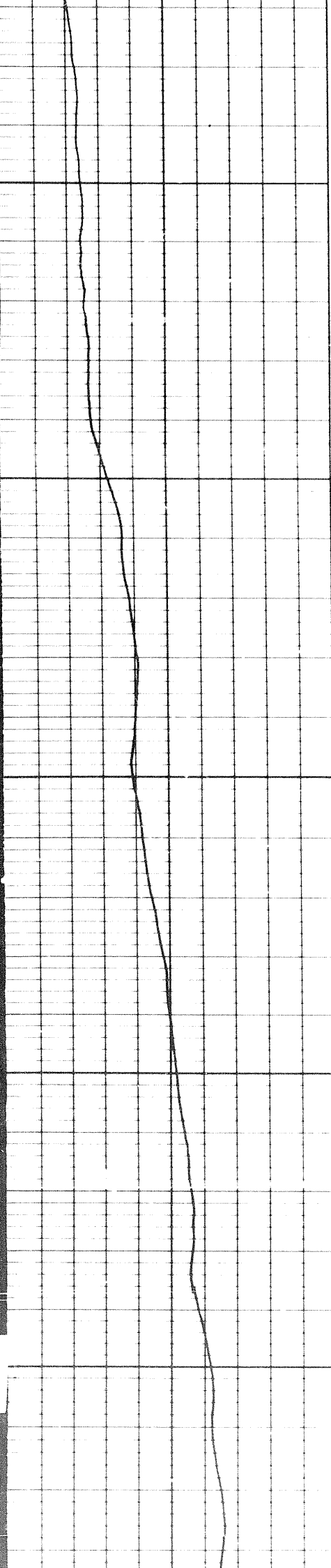
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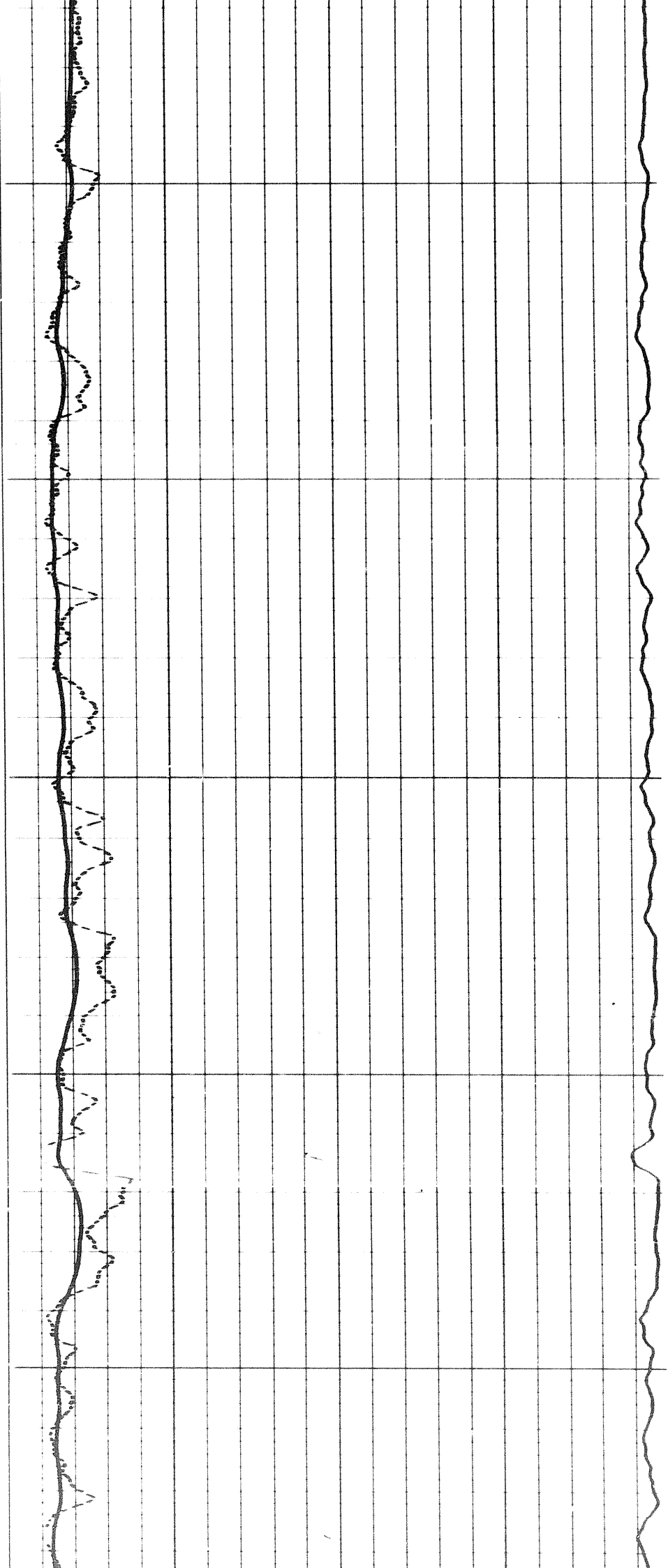


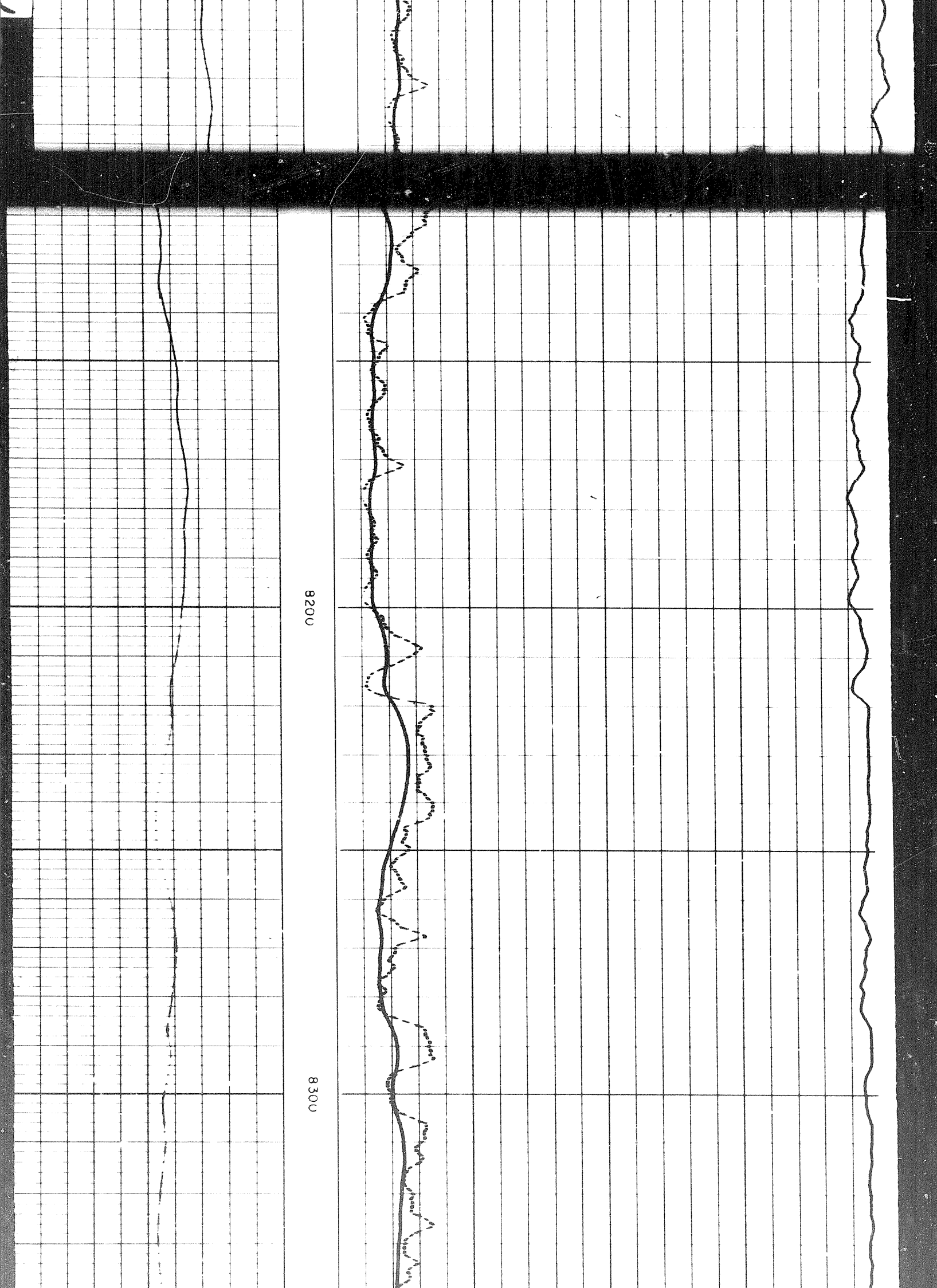
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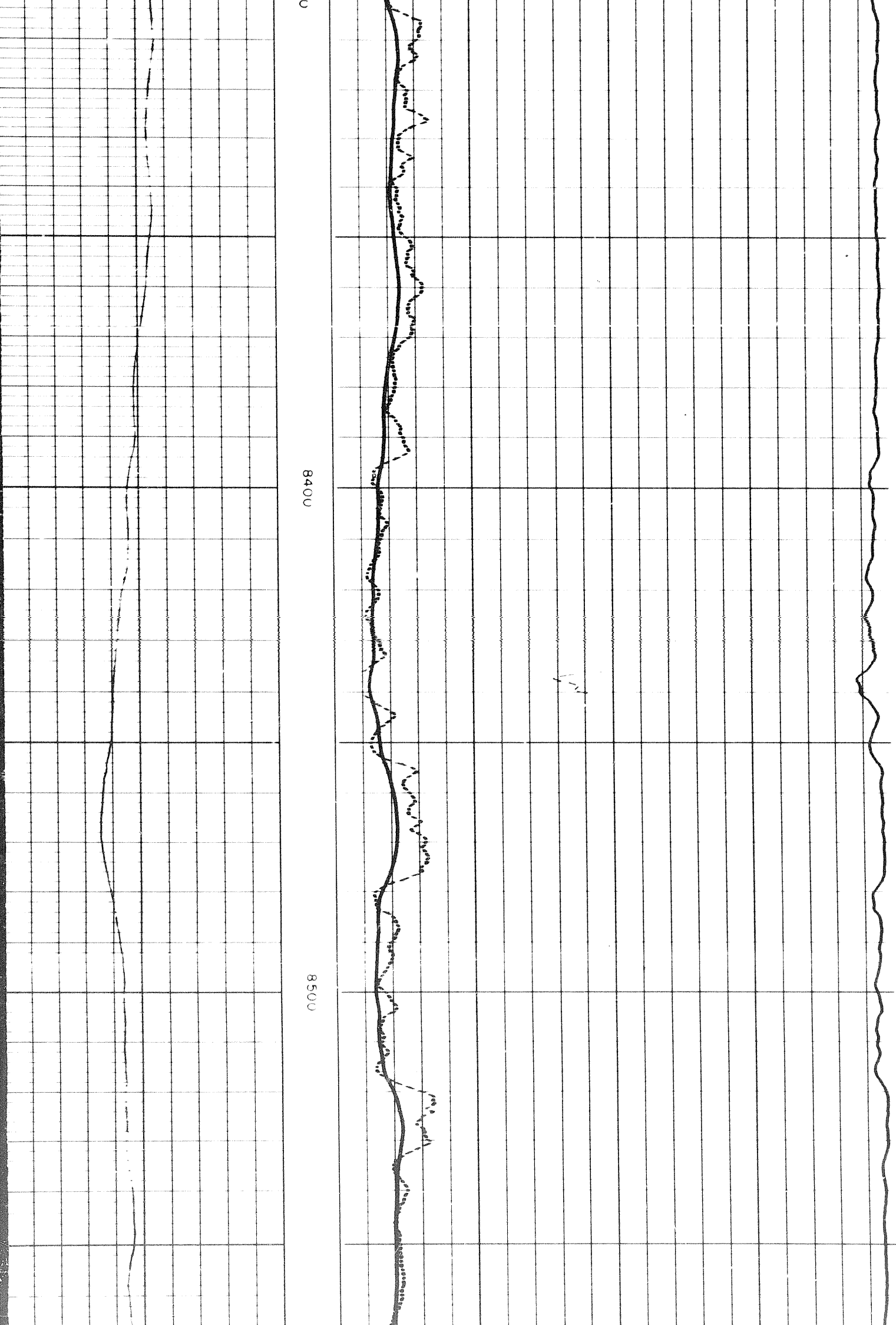




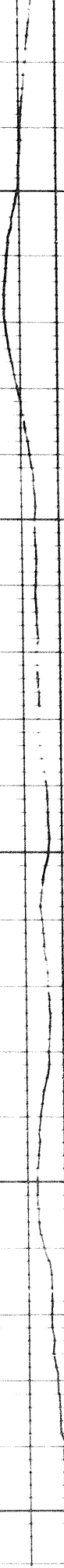
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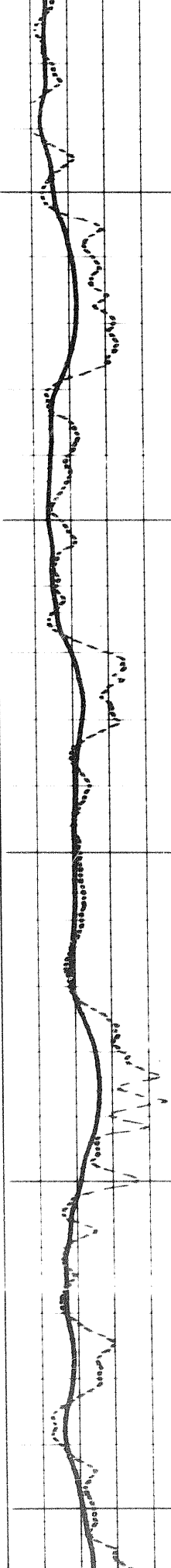


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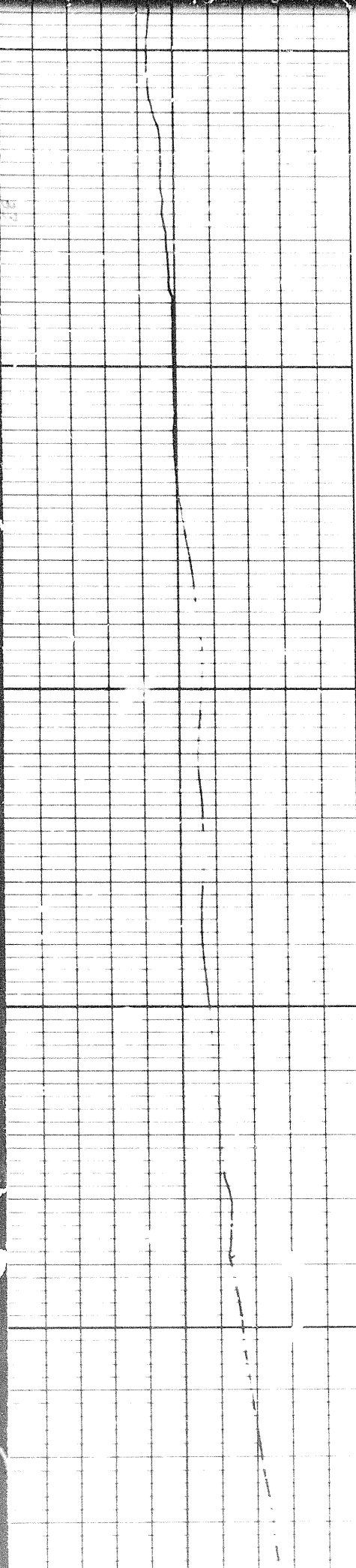
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8600



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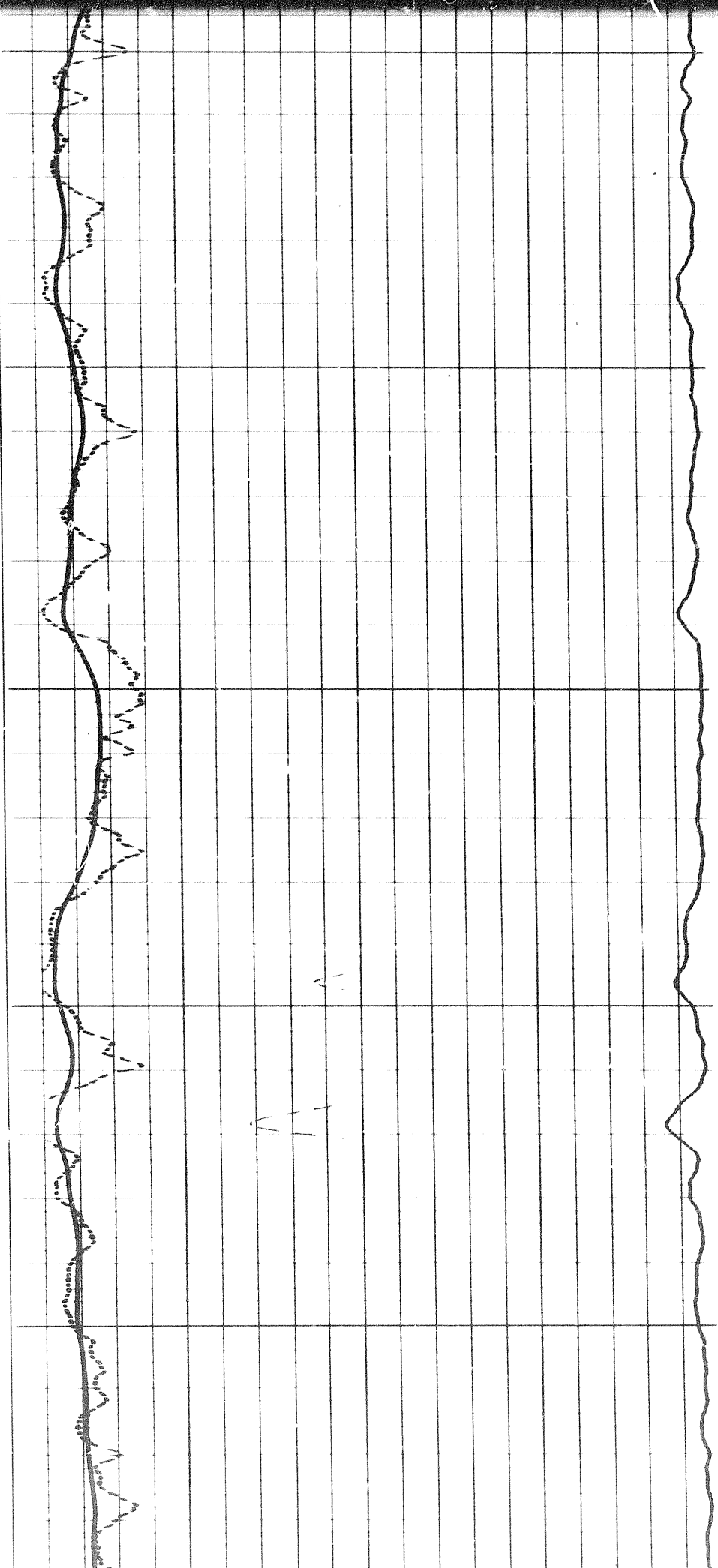




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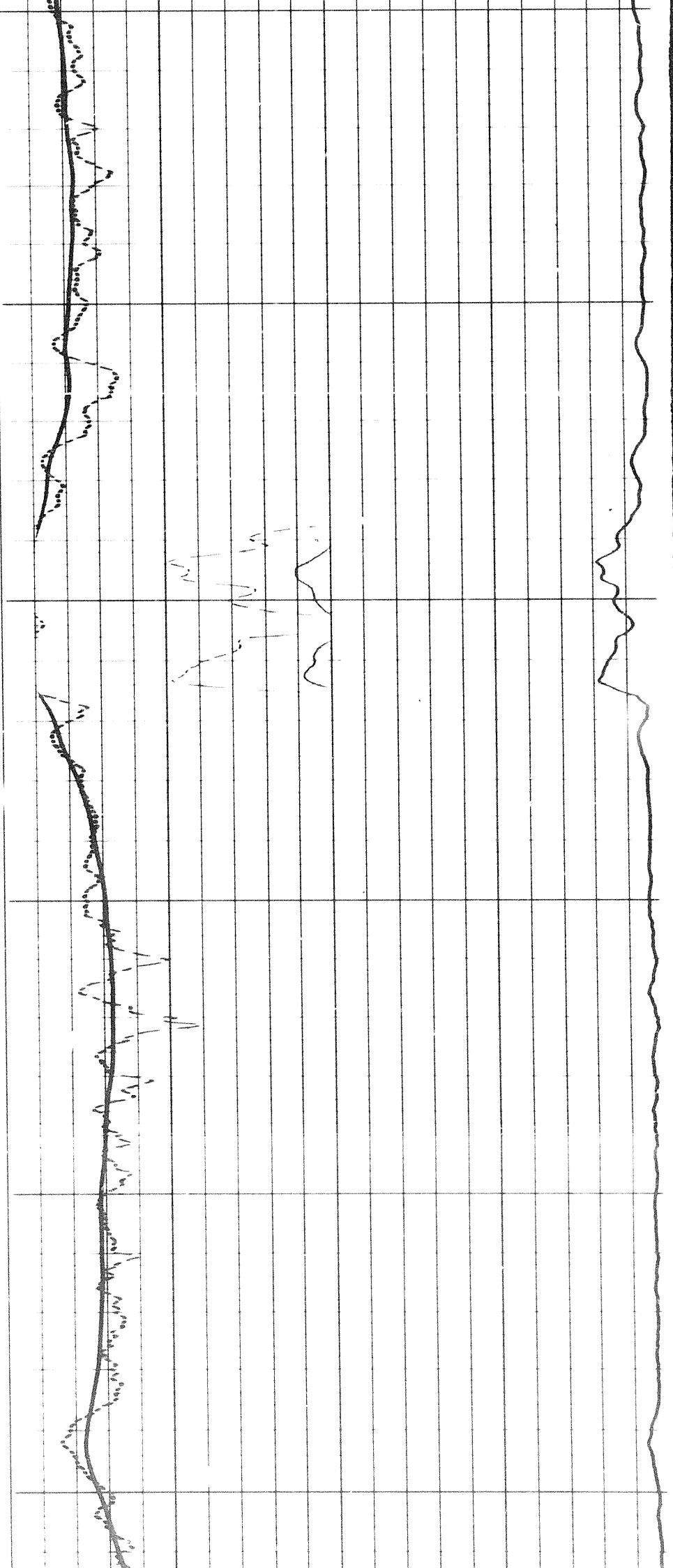
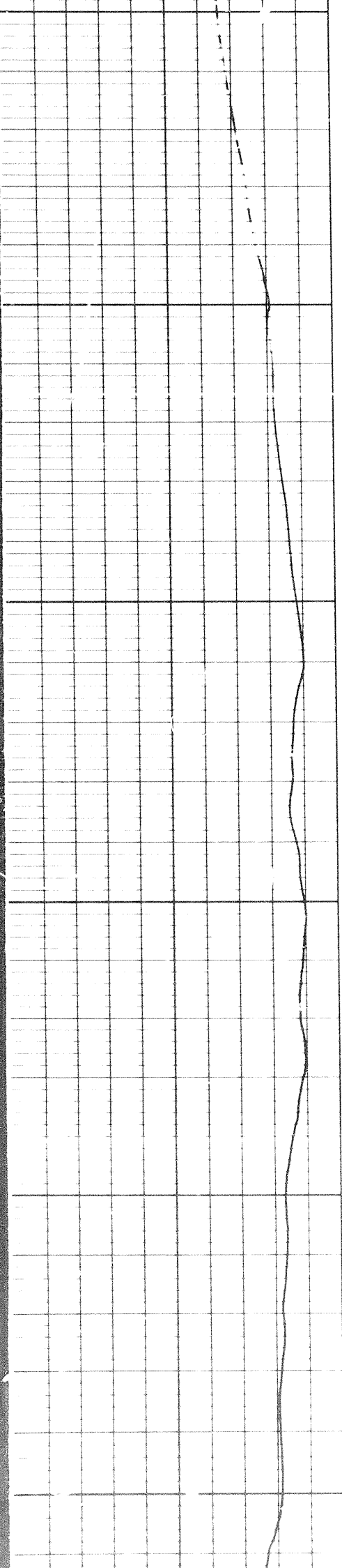
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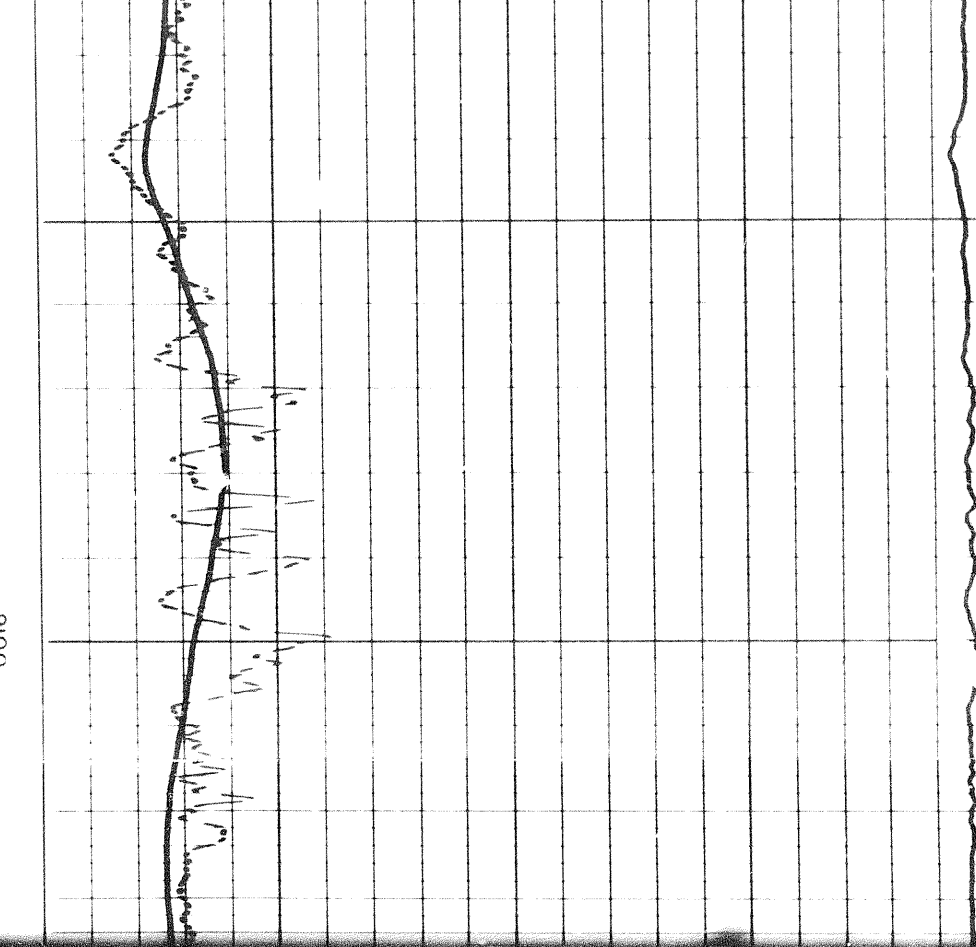
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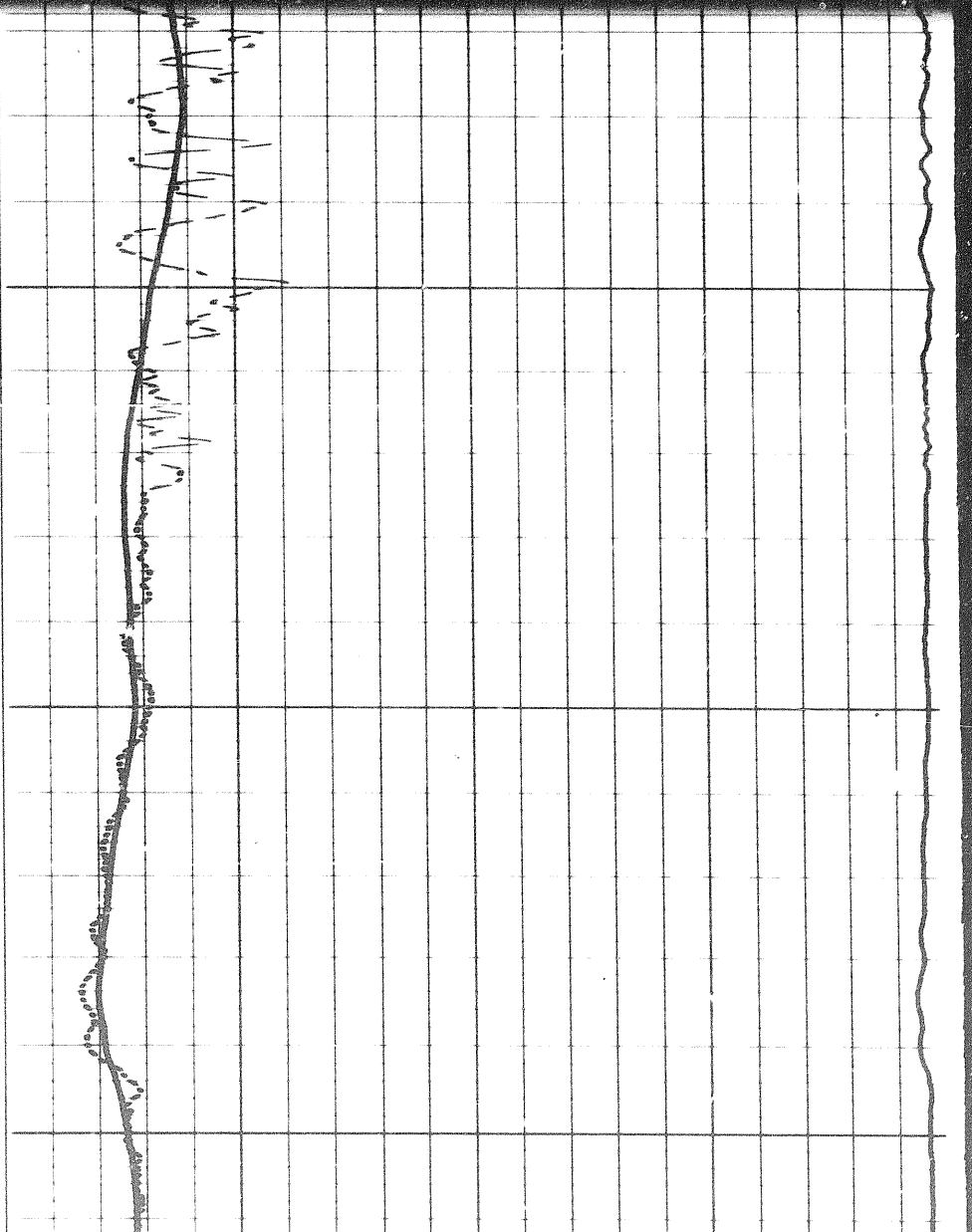
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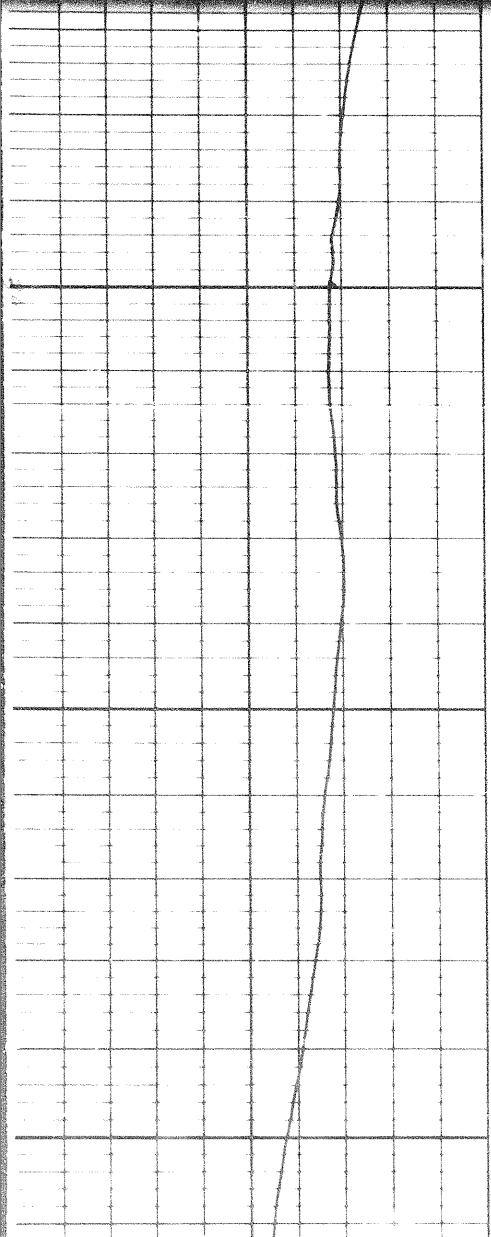
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9100



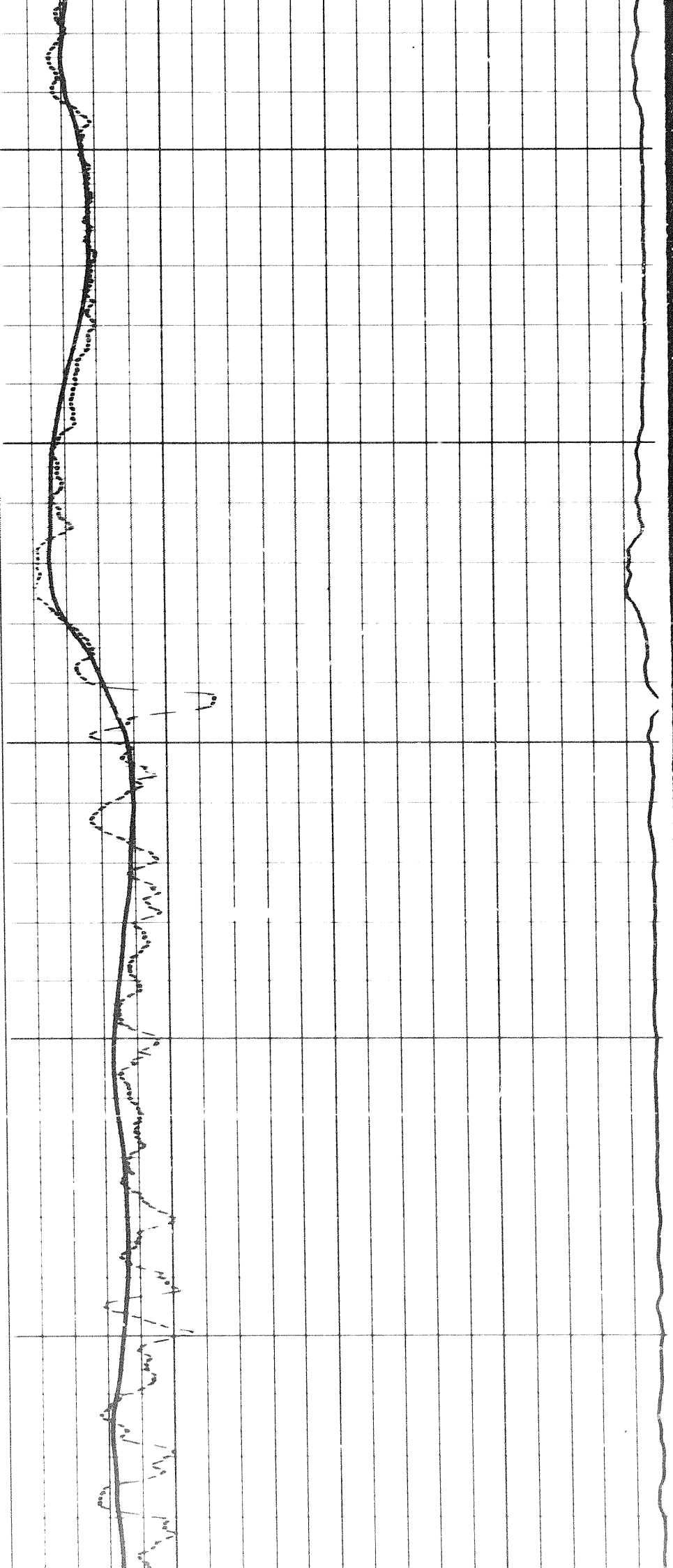
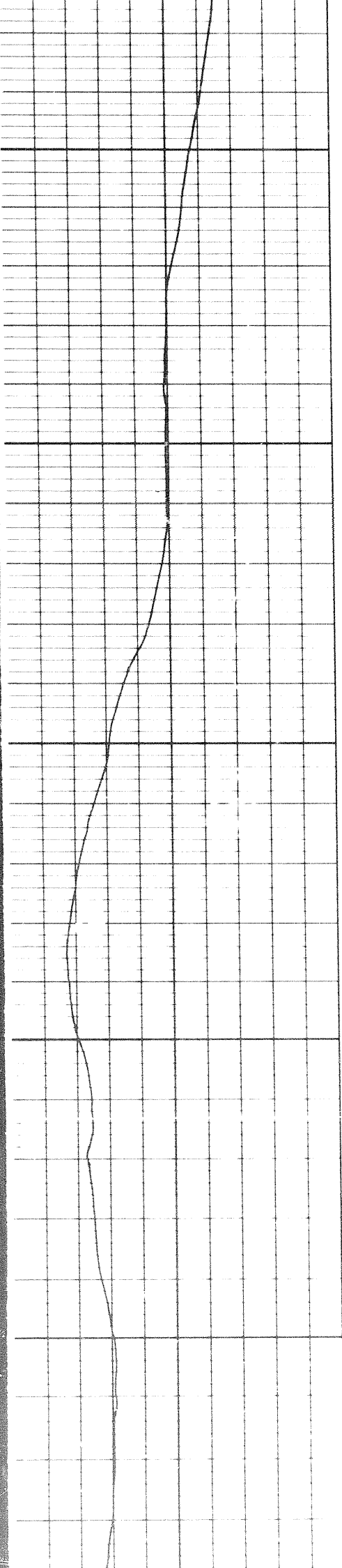
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9200

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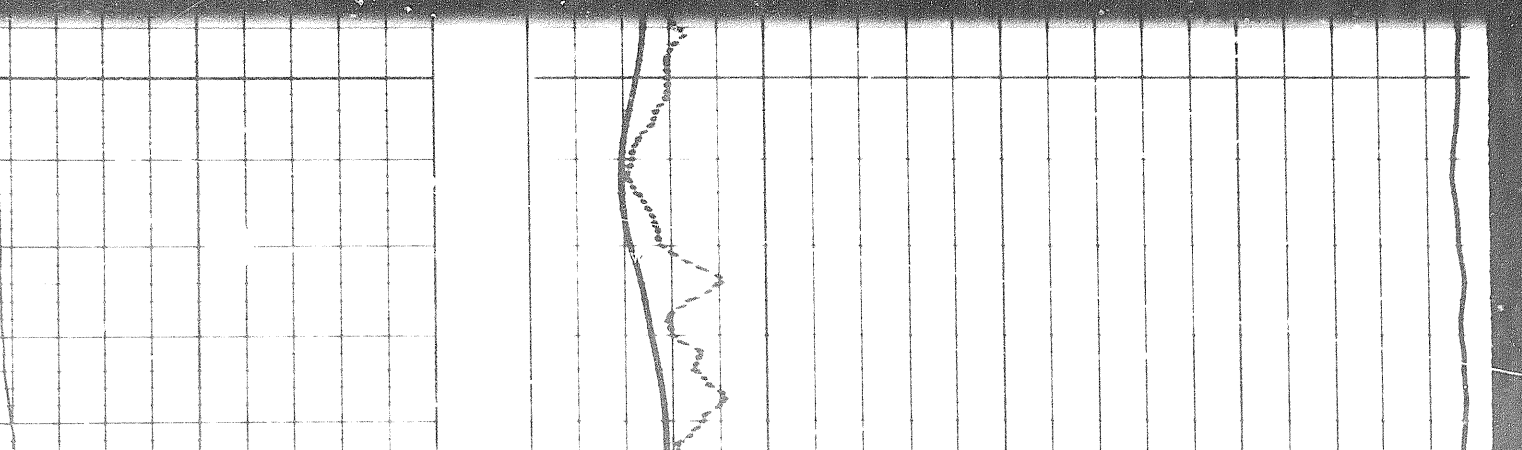
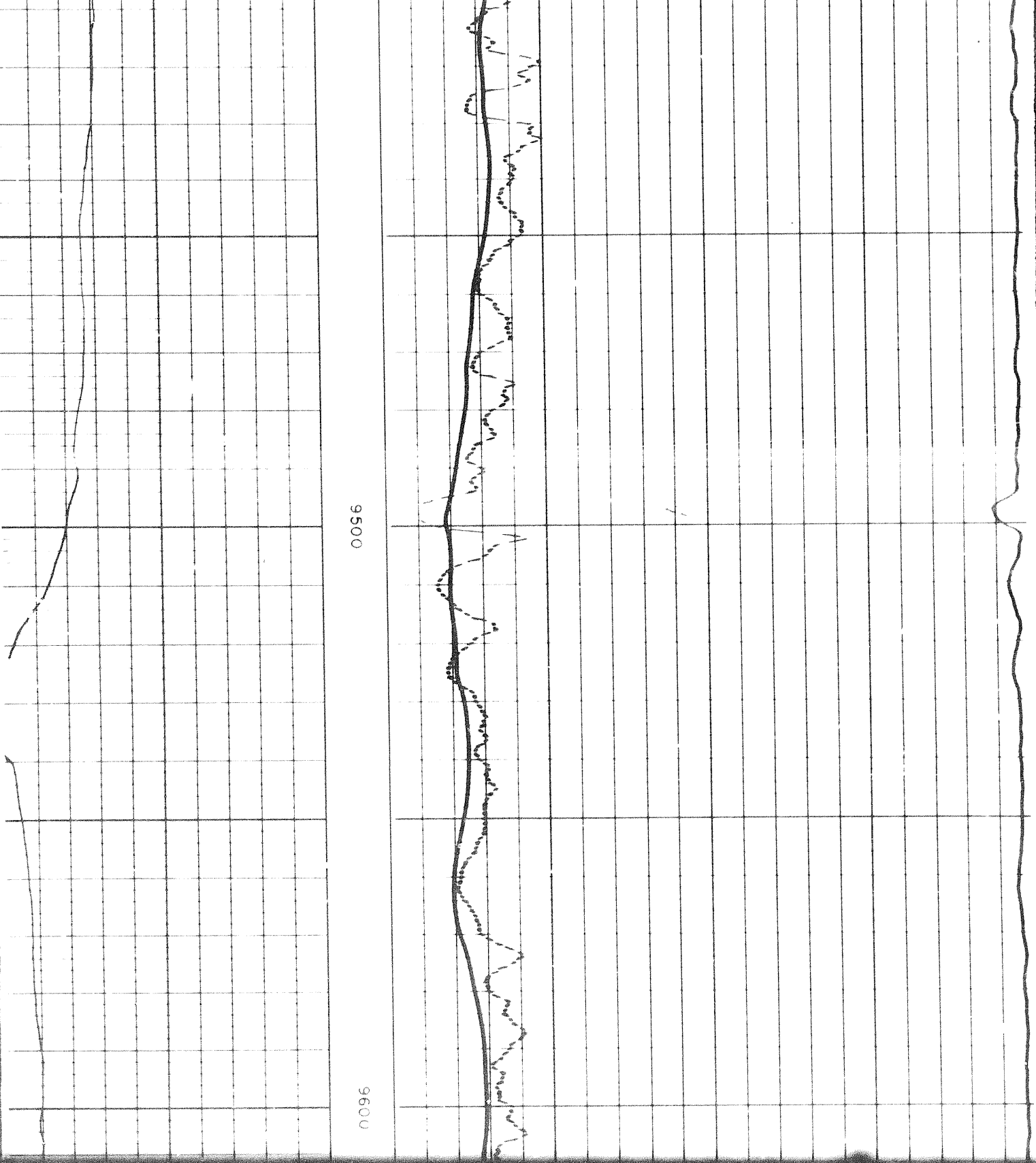
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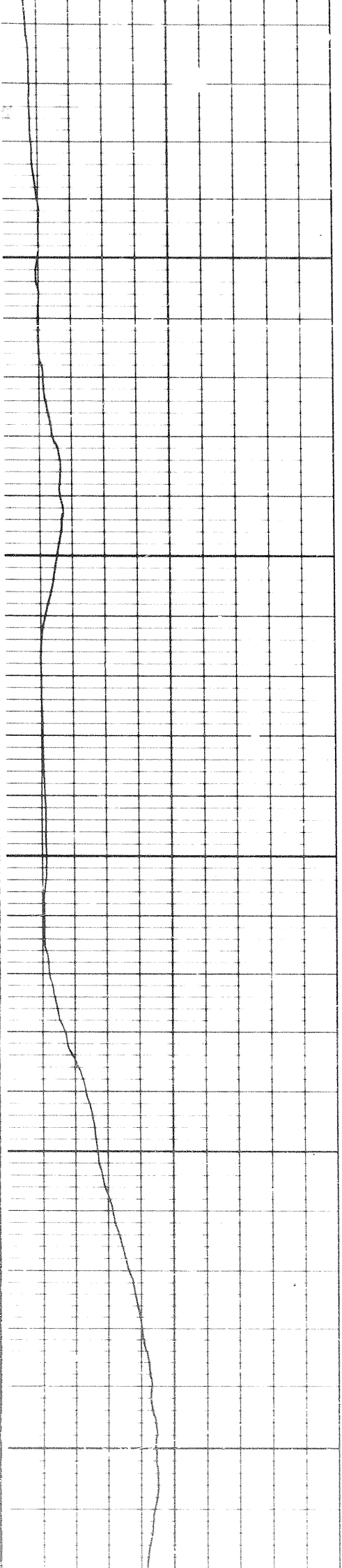


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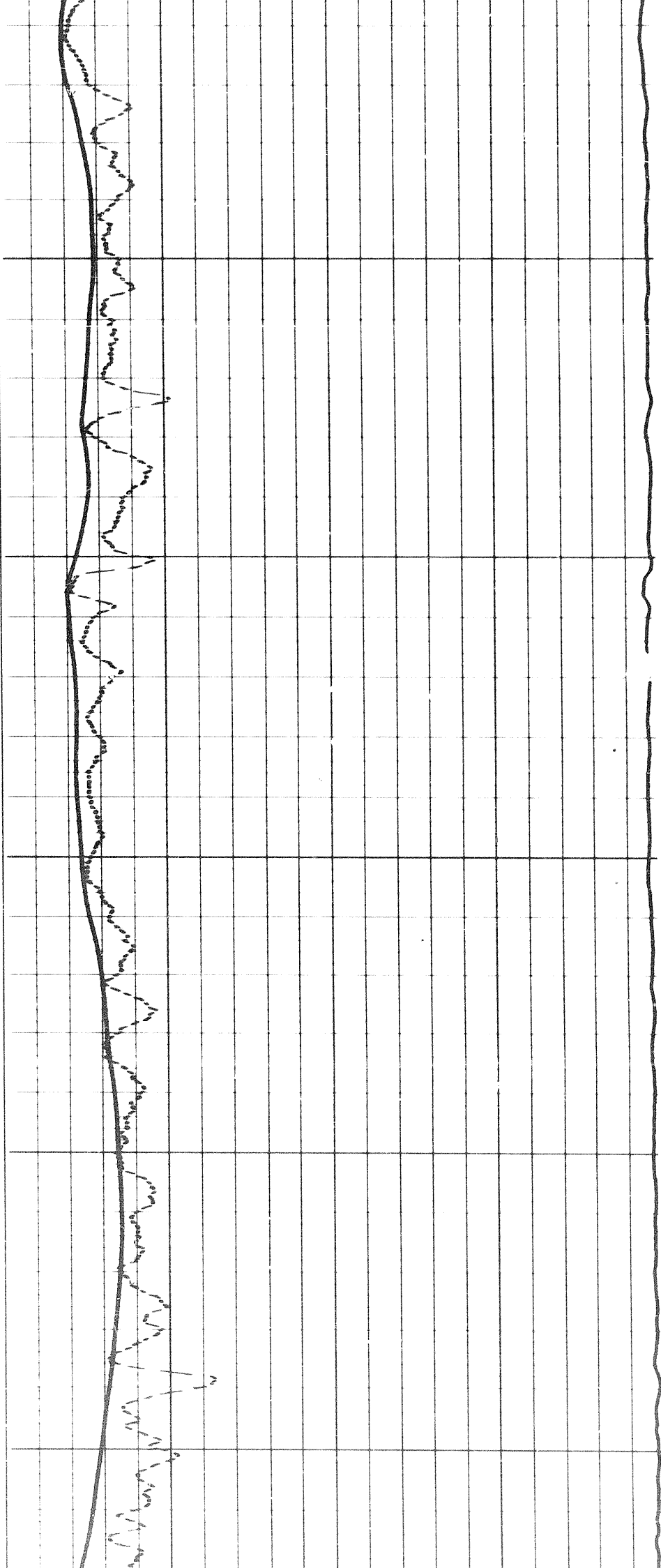




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9700

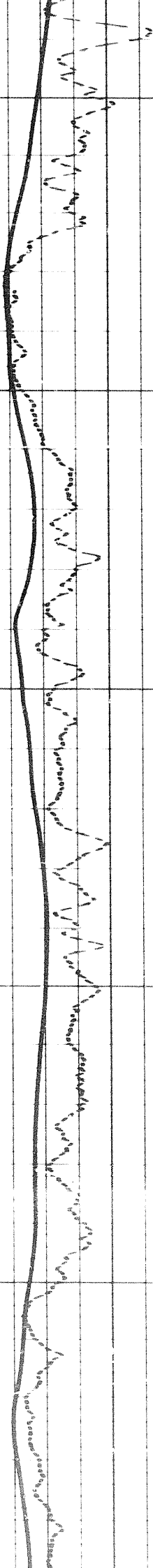
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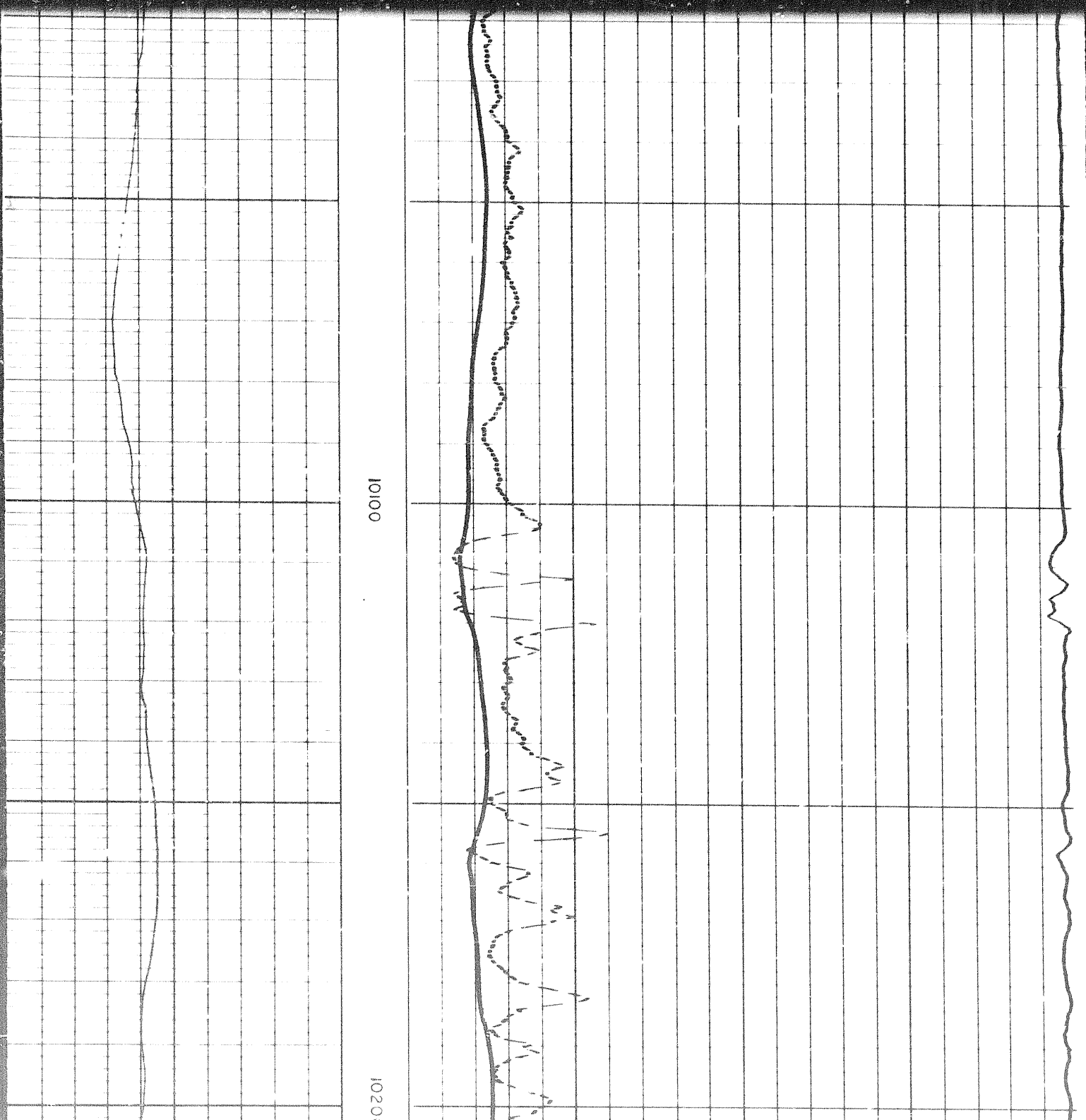
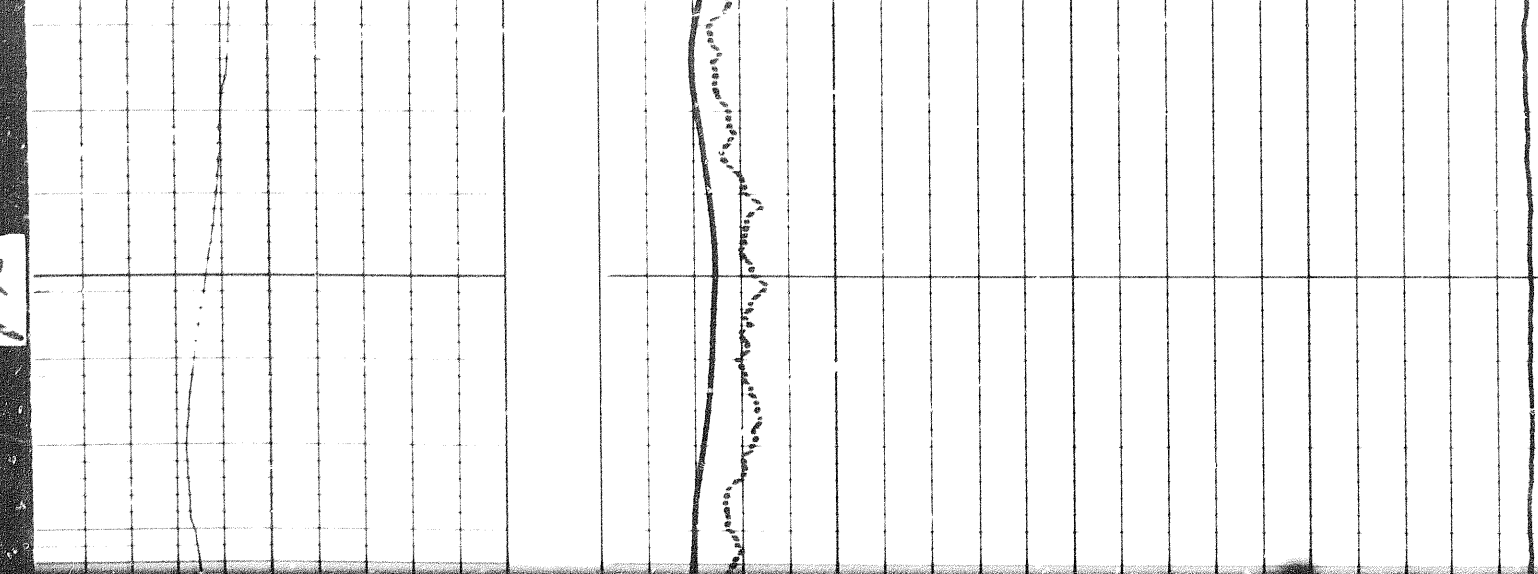
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0066

0001



364



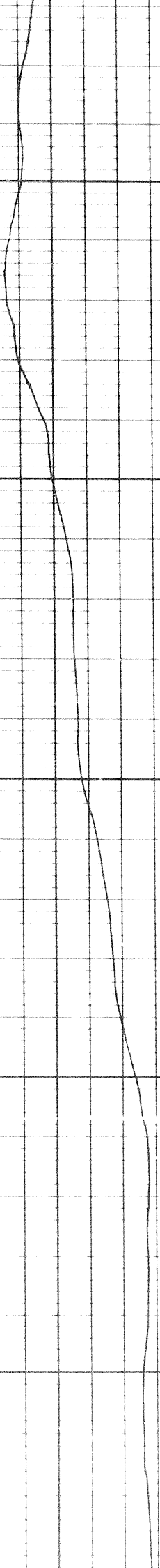
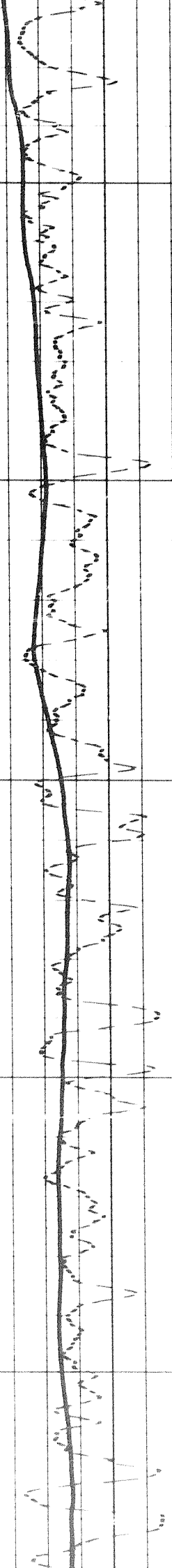
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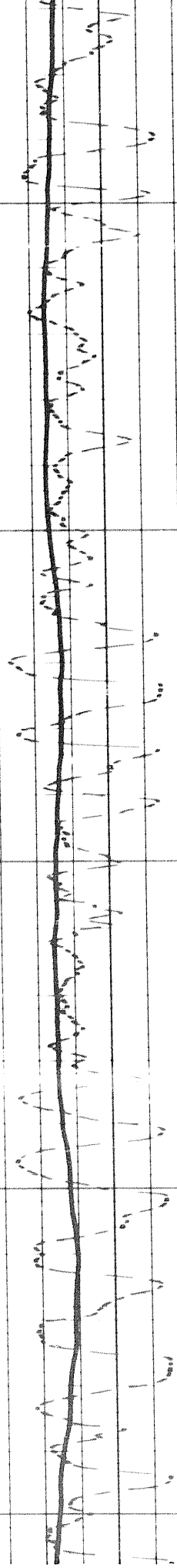
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37d

10400

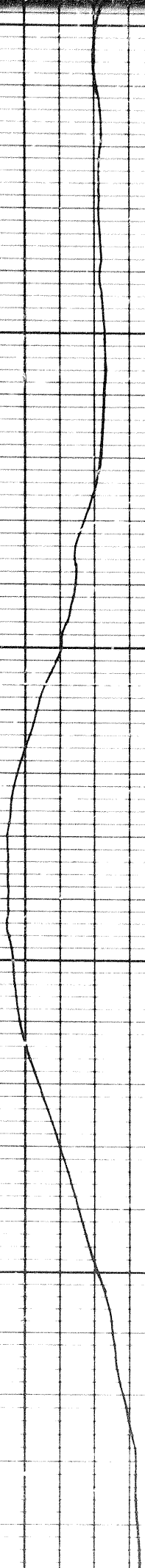
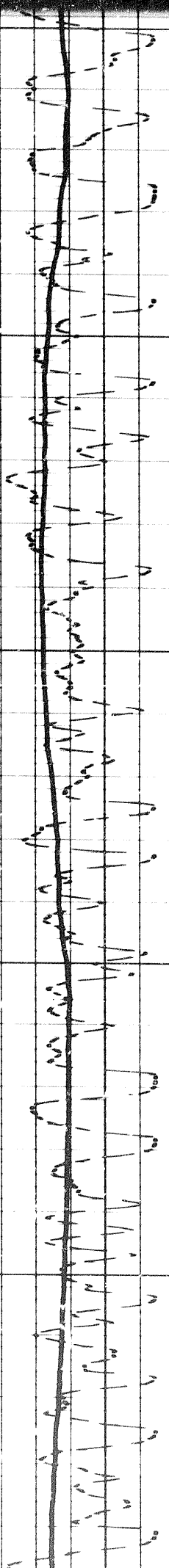
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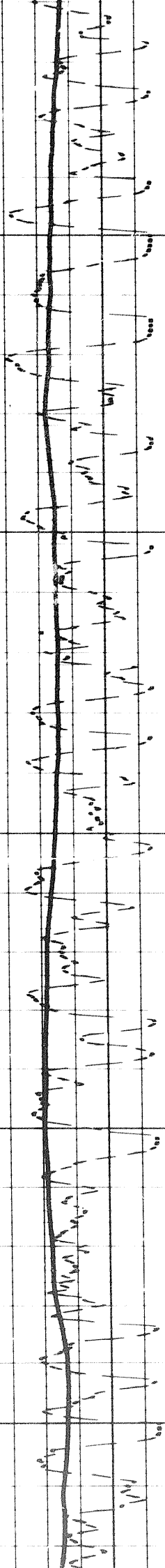
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10700



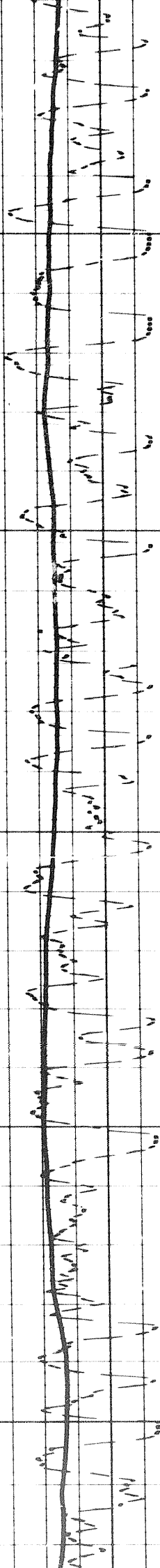
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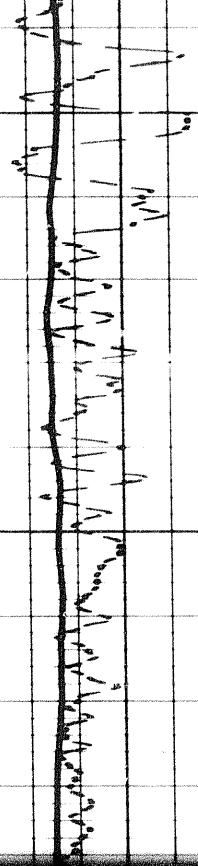
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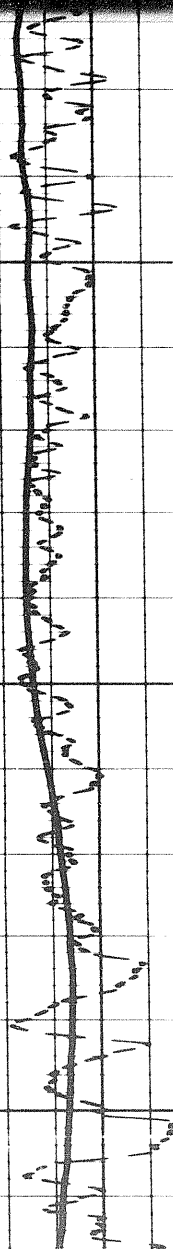


782

00011



00011

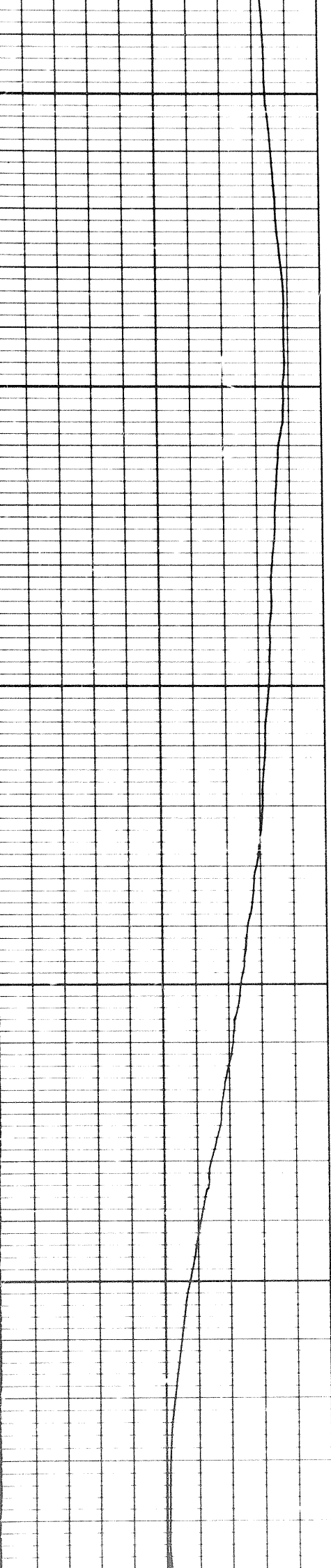
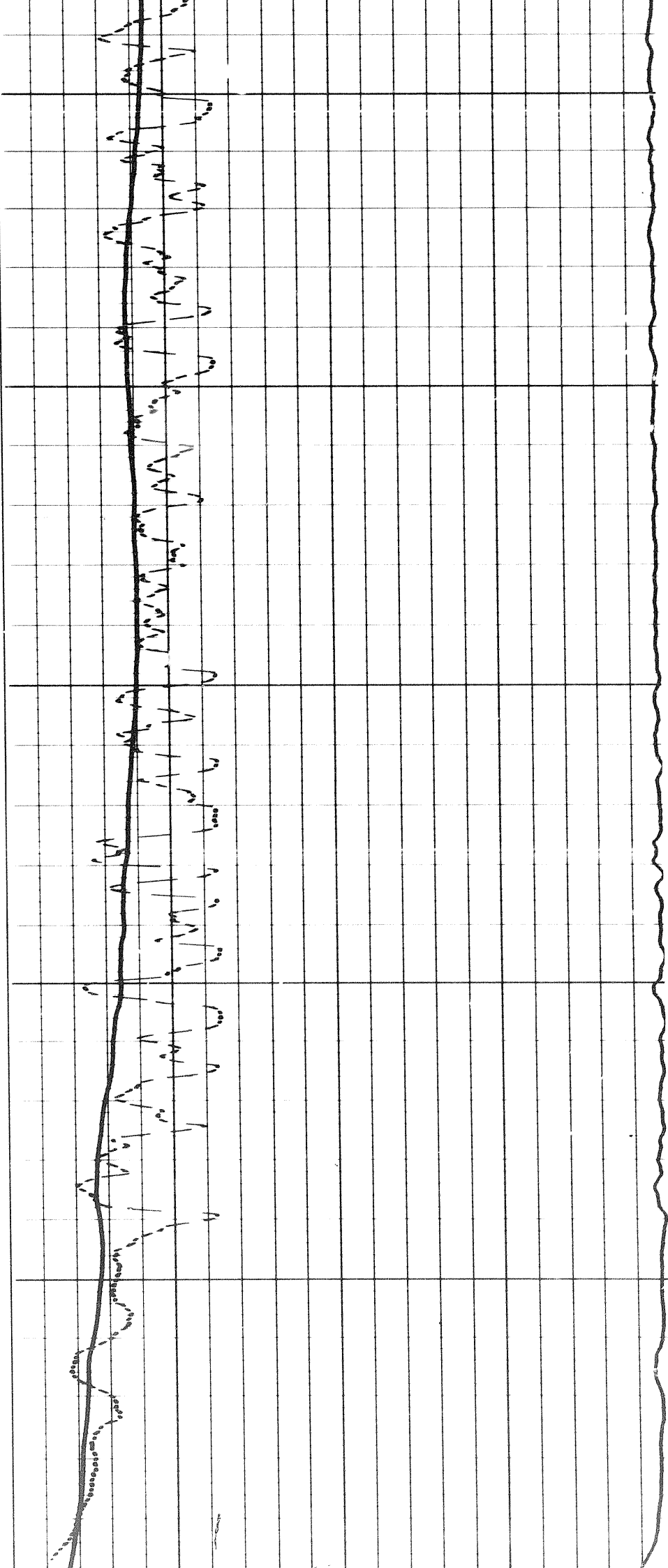


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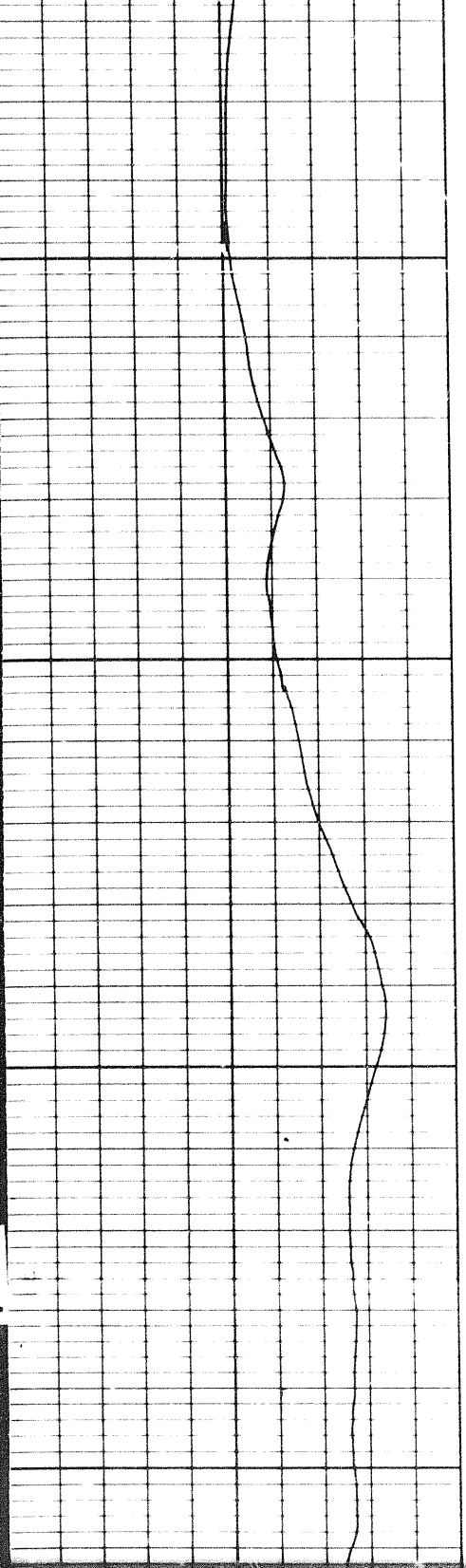
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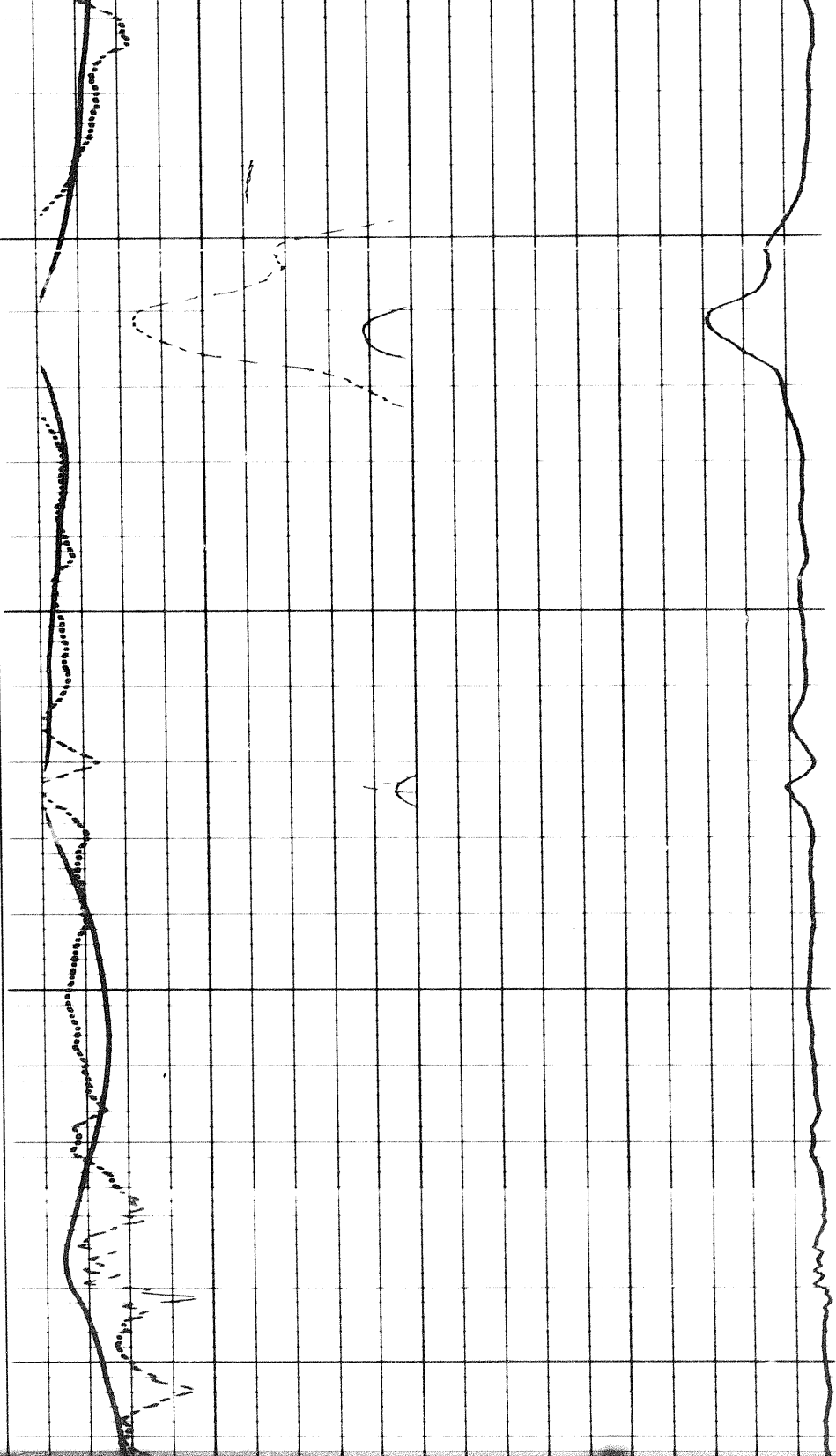
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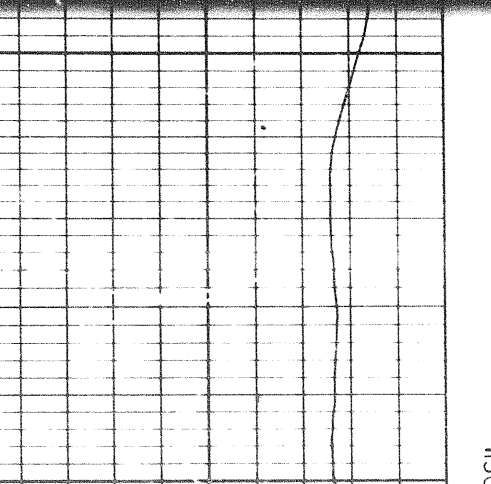
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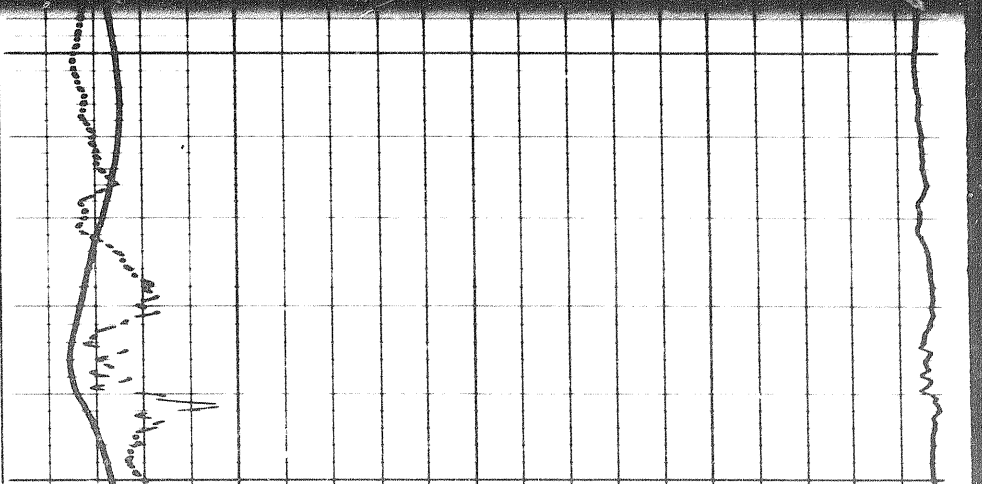
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11500



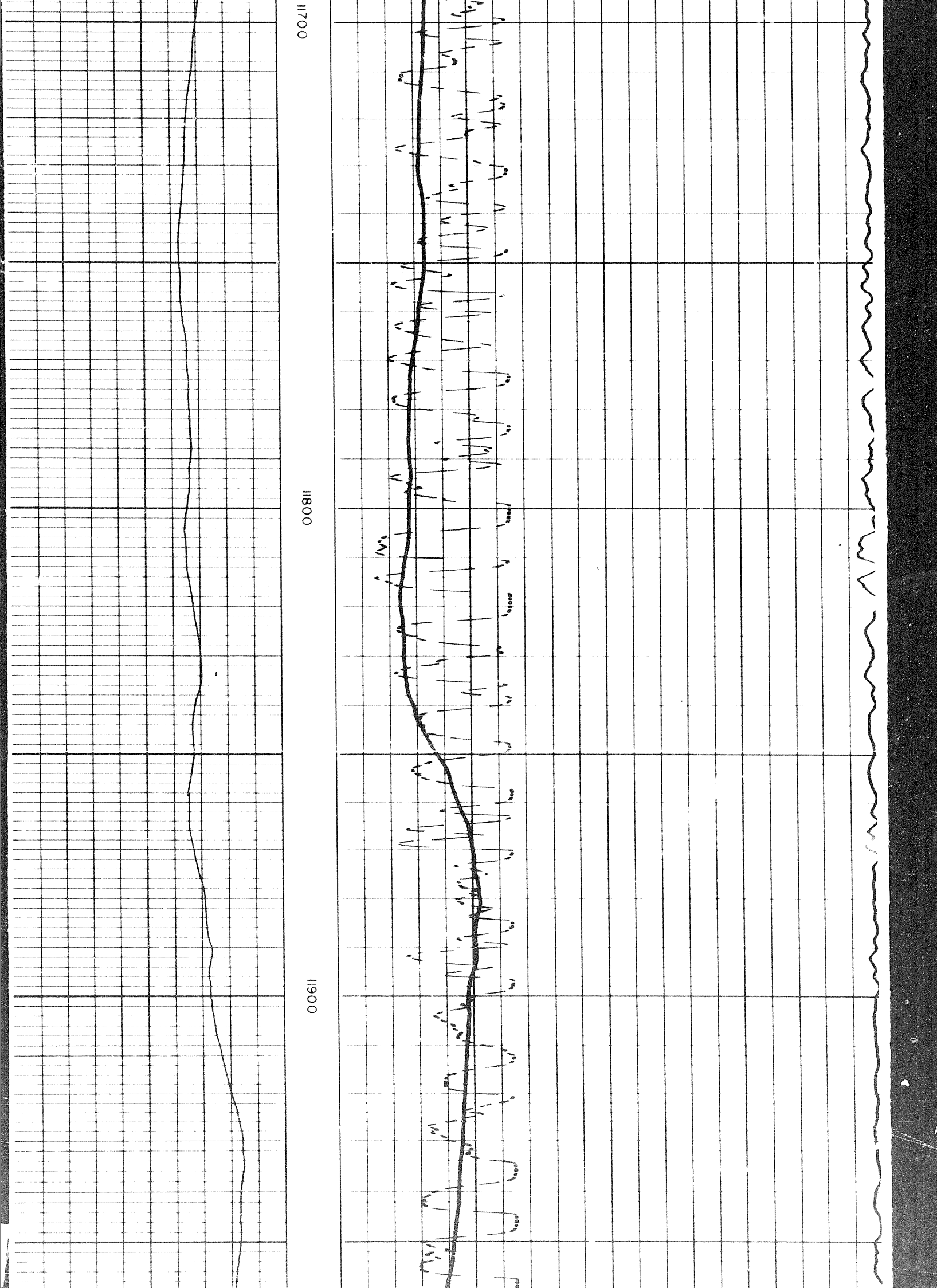
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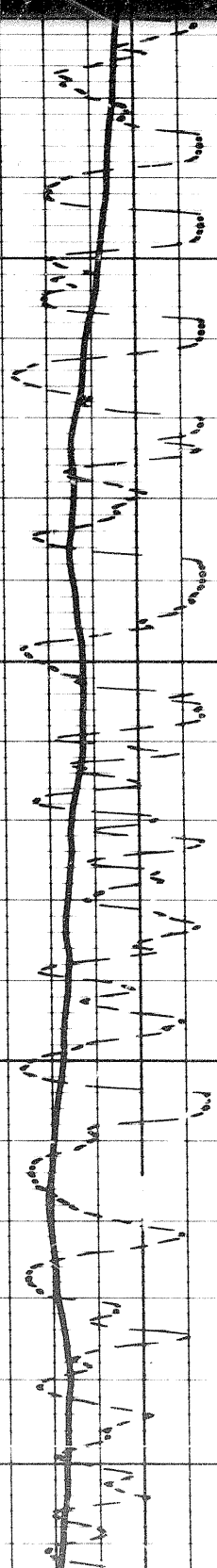
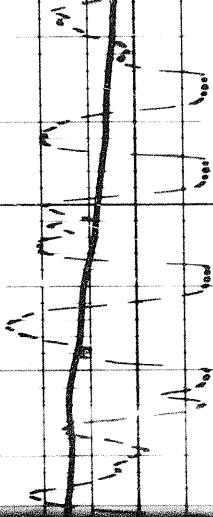
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11800

11900



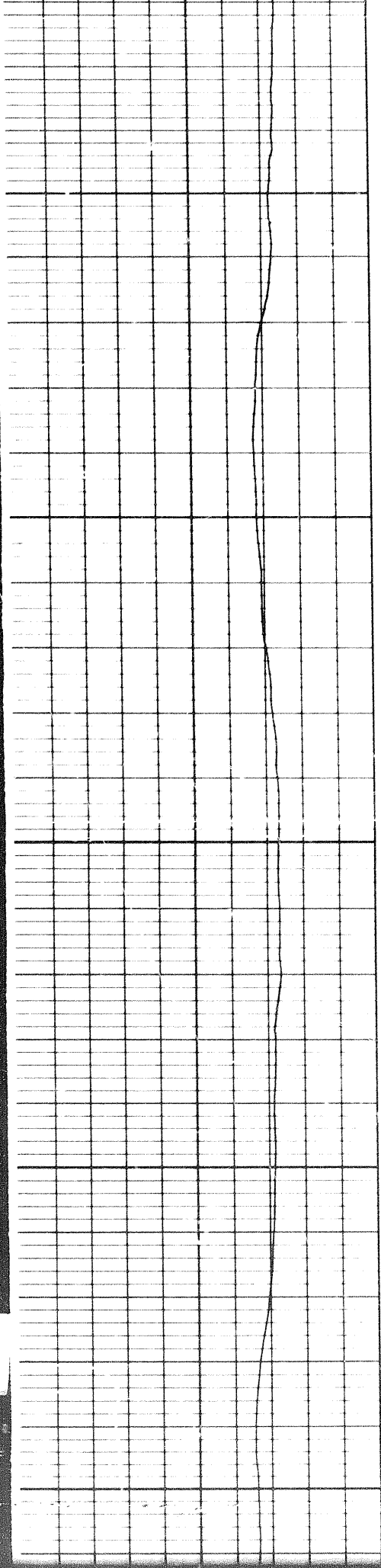
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12000

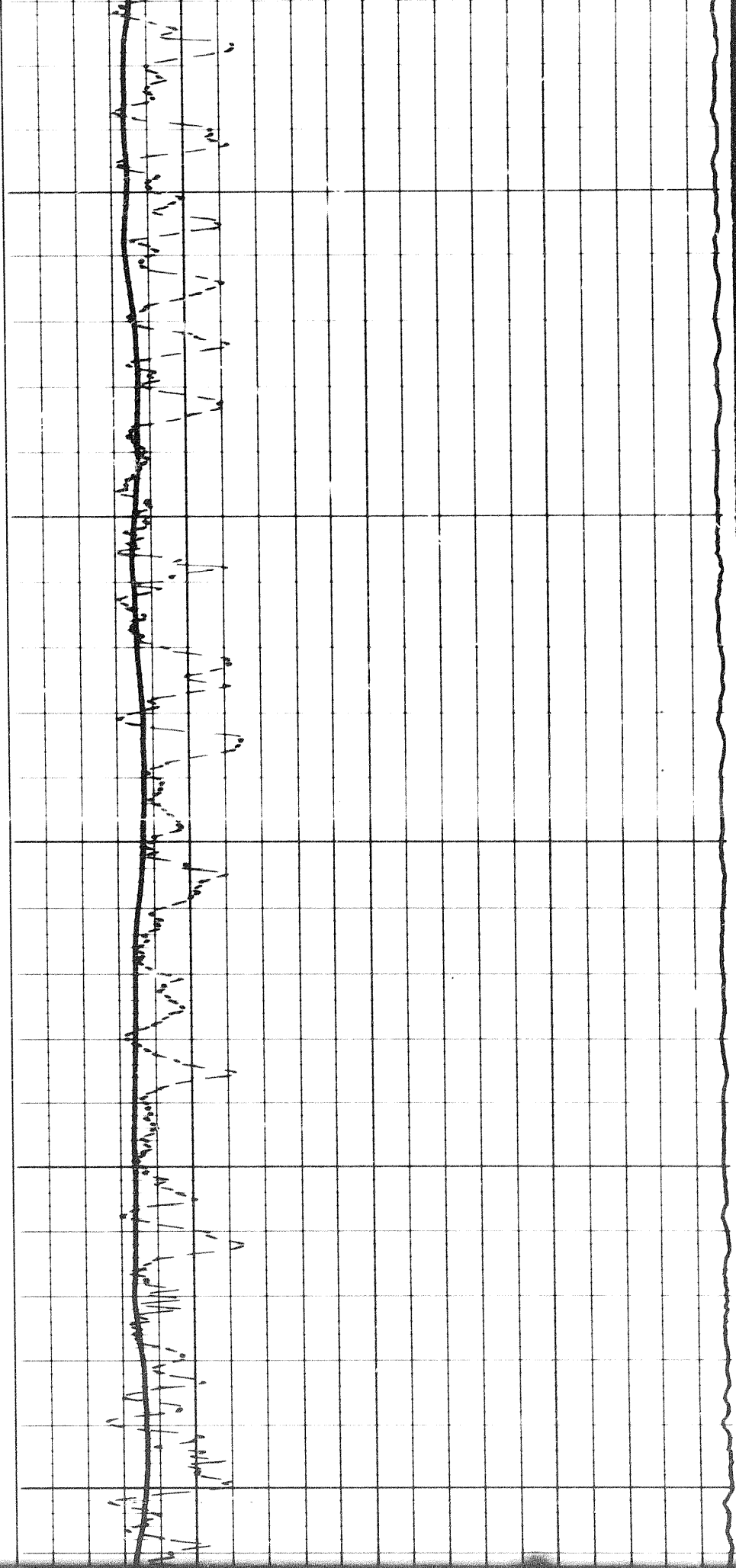
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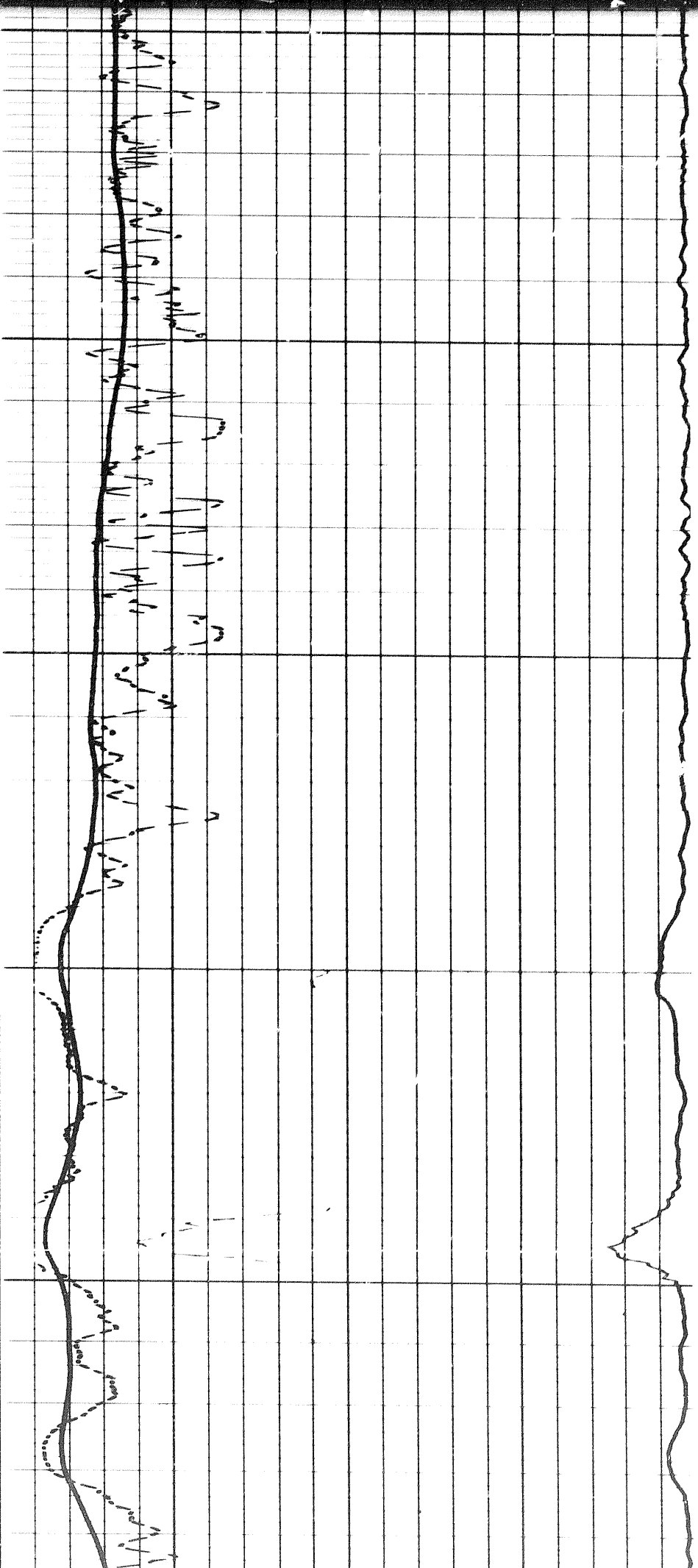


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12400



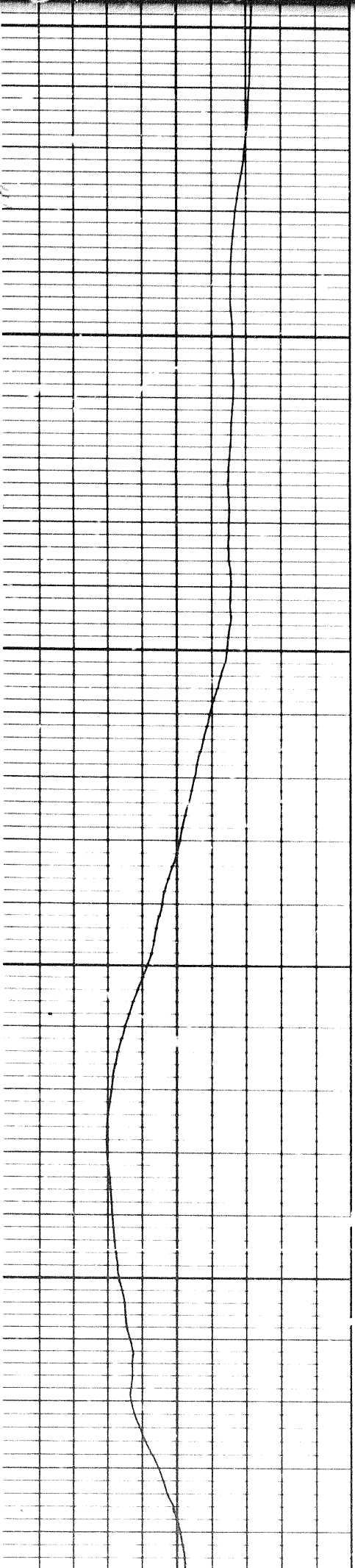
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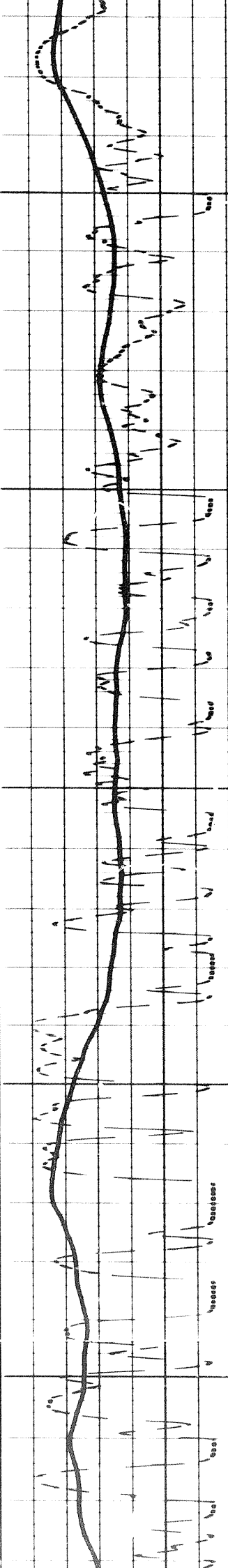


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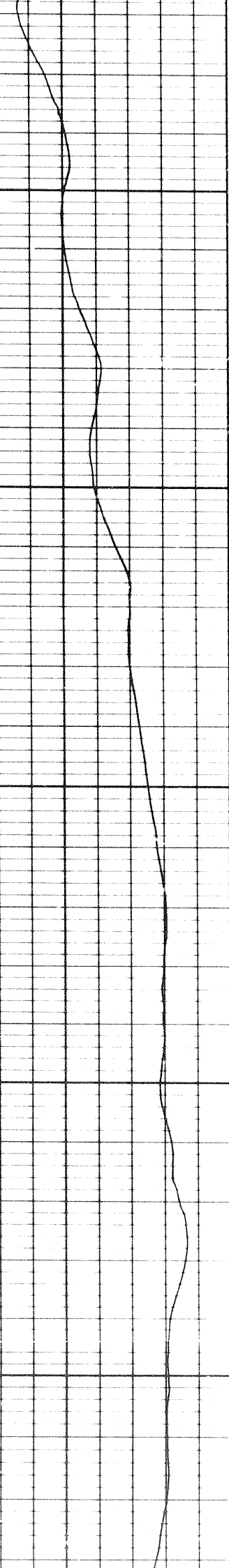
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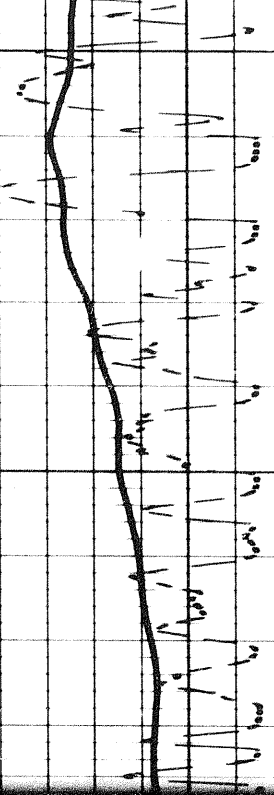


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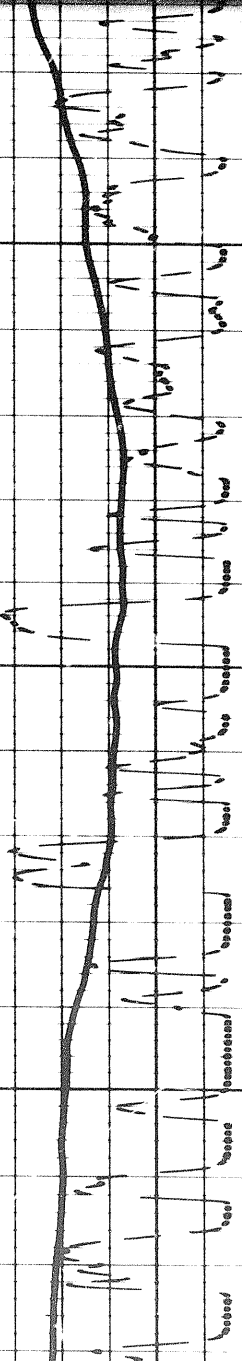
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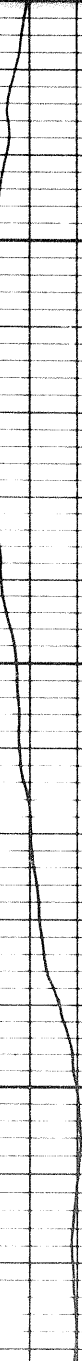
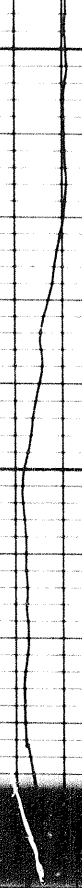
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12900



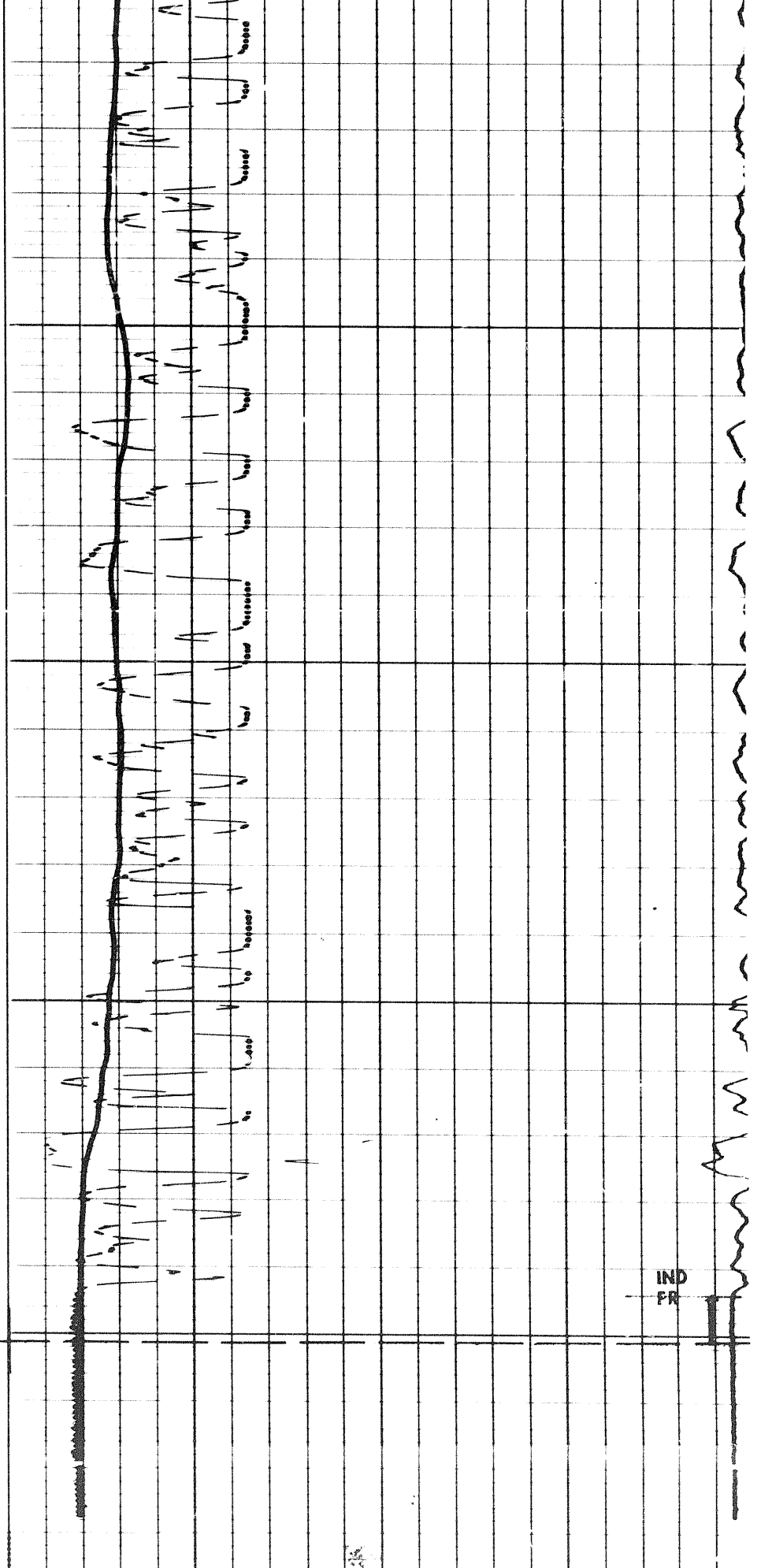
13000



00

13100

13200



IND
PR

16" NORMAL

100

1000

INDUCTION

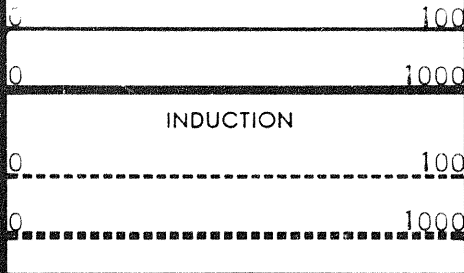
100

S.P. RECORDED WITH ES
SONDE, REFERENCE
ELECTRODE DOWN HOLE,
TRACED.

20

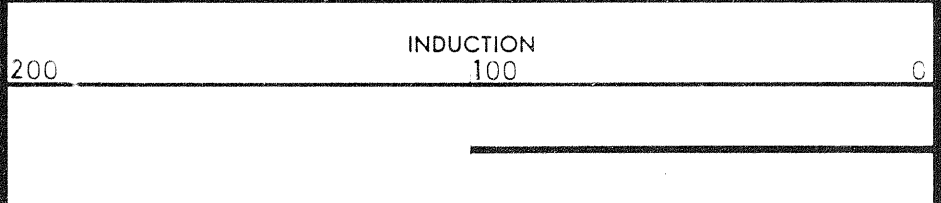


16" NORMAL



INDUCTION

RESISTIVITY
- ohms m²/m



INDUCTION
100

SPONTANEOUS-POTENTIAL
millivolts

DEPTHS

CONDUCTIVITY

millimhos /m = $\frac{1000}{\text{ohms m}^2/\text{m}}$

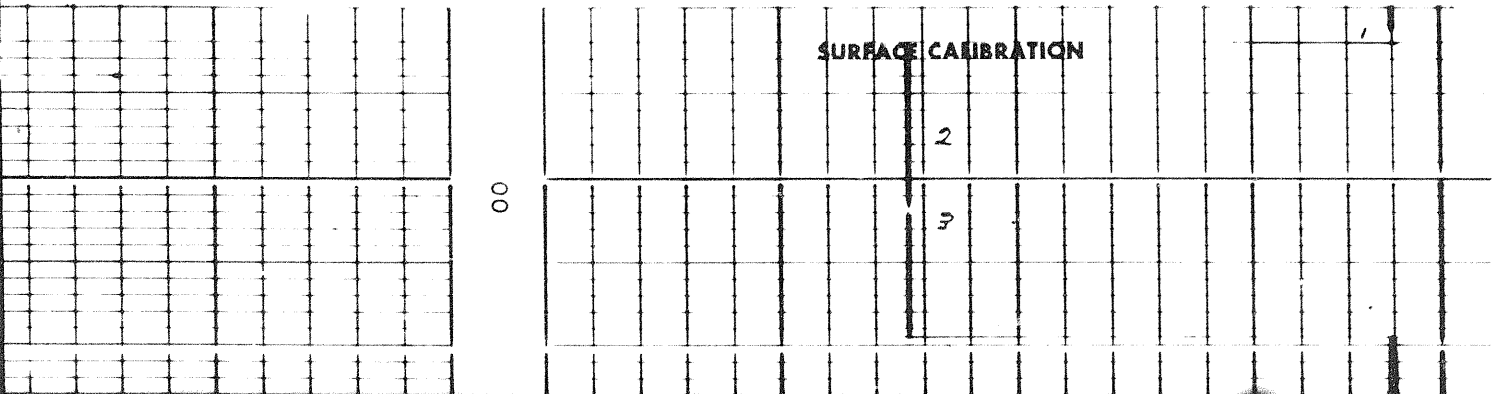
COMPANY THE CALIFORNIA STANDARD COMPANY

Rm 1.90 @ 54 °F
Rinf 1.22 @ 68 °F
Rmc 2.01 @ 68 °F
BHT 207 °F

SOC FR 13201
SOC TD 13202
DRLR TD 13217
Elev.: KB 1700 (EST)
GL 1684 (EST)
CBF _____

WELL SOC BLACKSTONE Y.T. D-77

FIELD WILDCAT PROVINCE YUKON TERRITORY.



SURFACE CALIBRATION

2

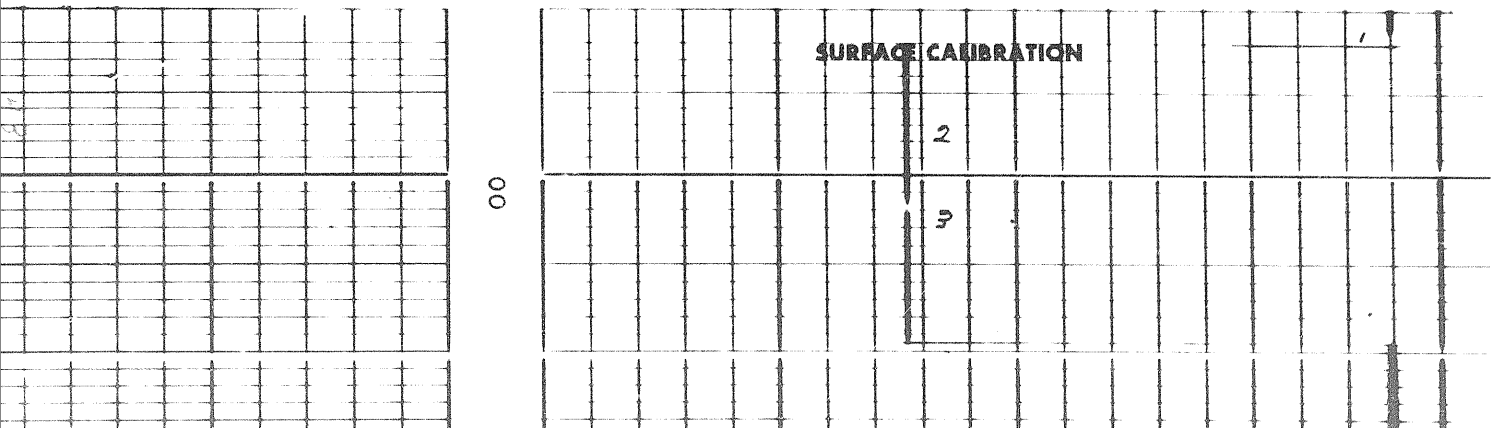
3

00

BHT 207 °F Elev.: KB 1700 (EST)
GL 1684 (EST)
CBF _____

WELL SOC BLACKSTONE Y.T. D-77

FIELD WILDCAT PROVINCE YUKON TERRITORY.

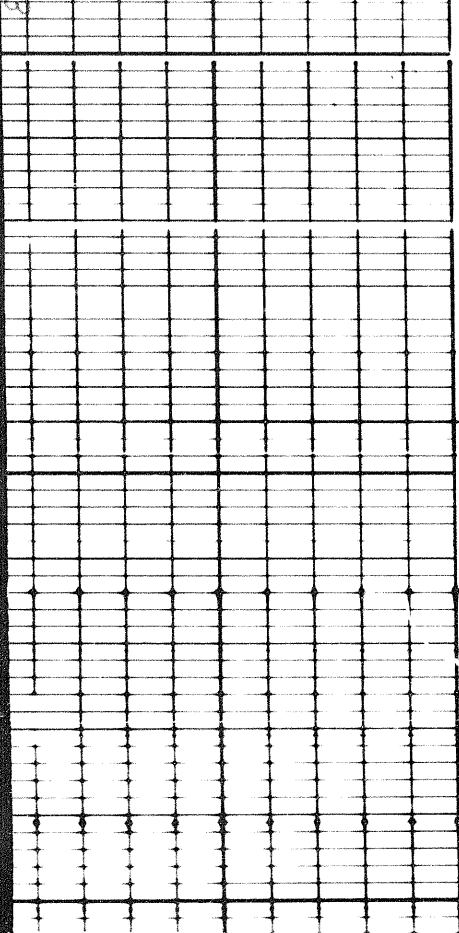


SURFACE CALIBRATION

2

3

00



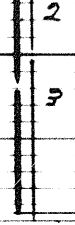
00

00

0200

Calibration after Survey

Calibration before Survey



4

5

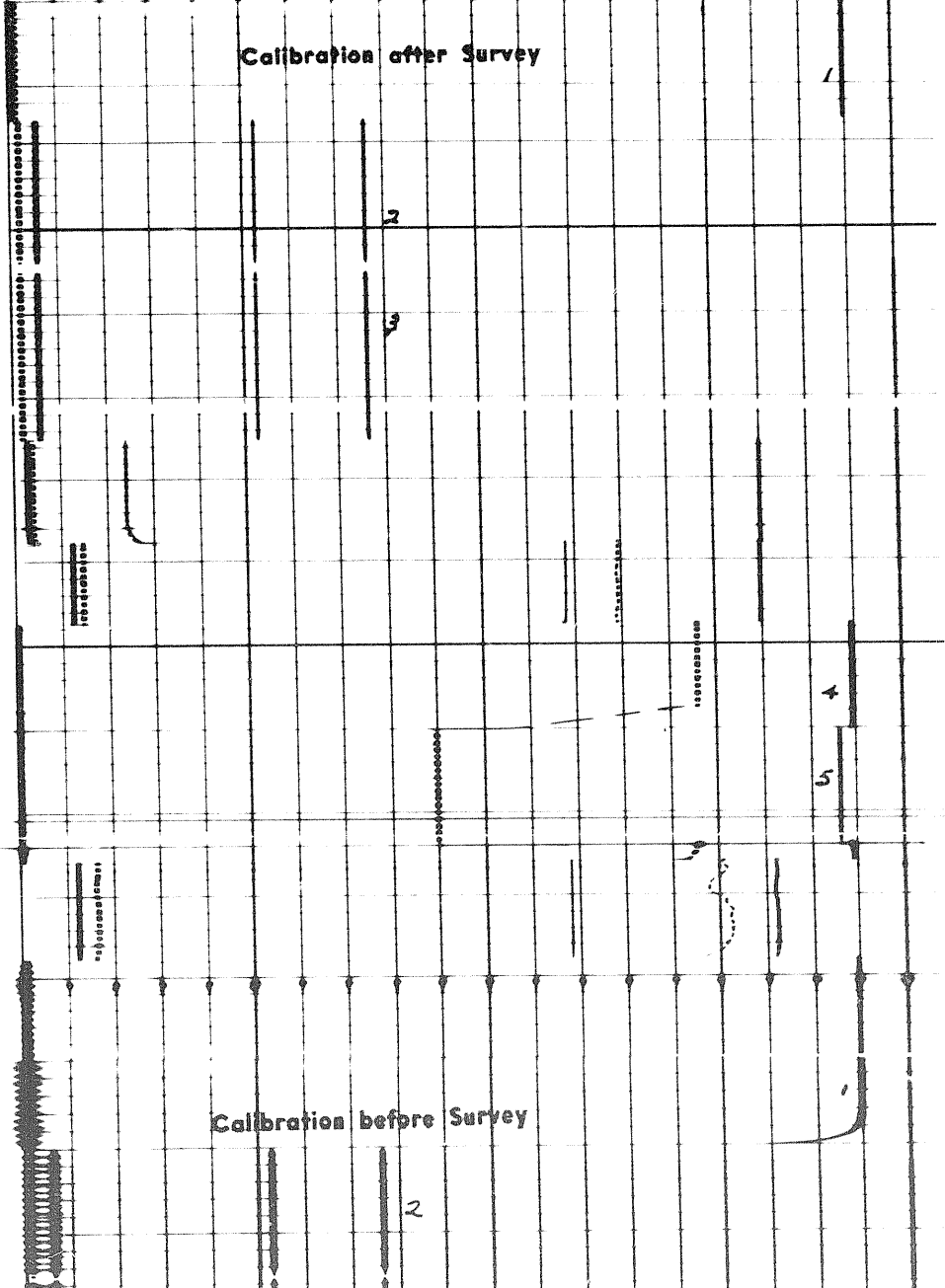
2

3

4

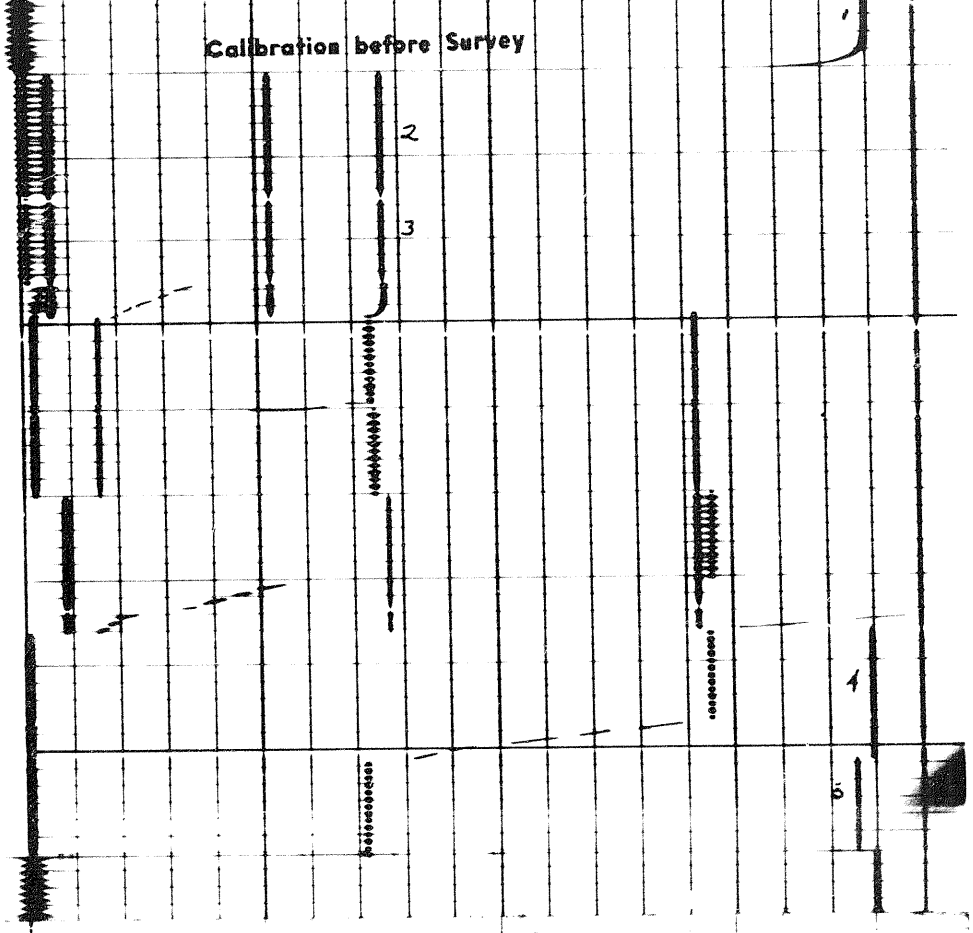
5

2

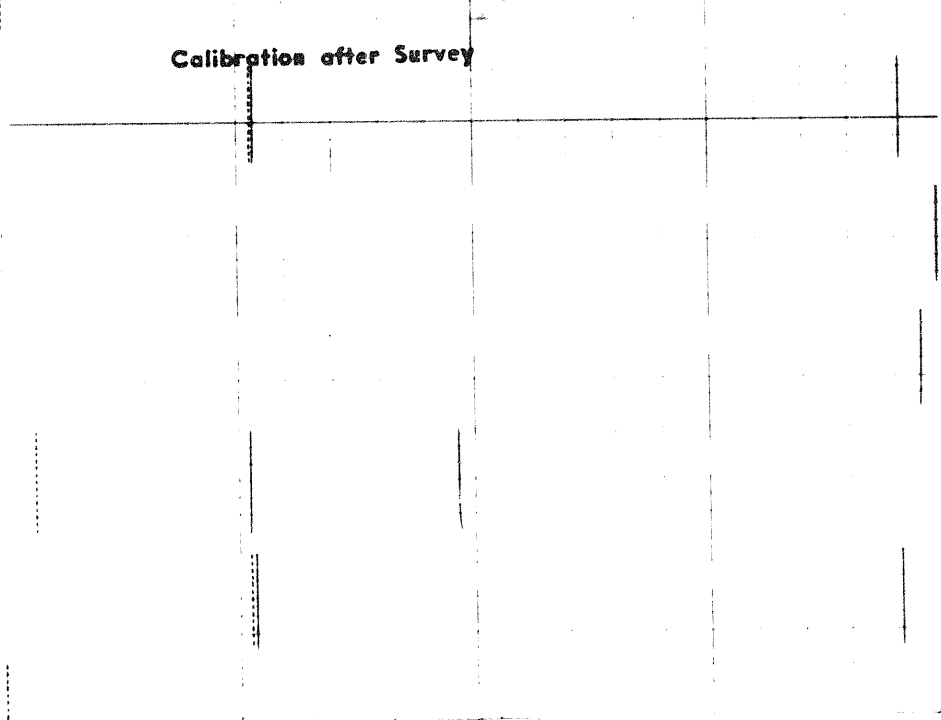


Calibration before Survey

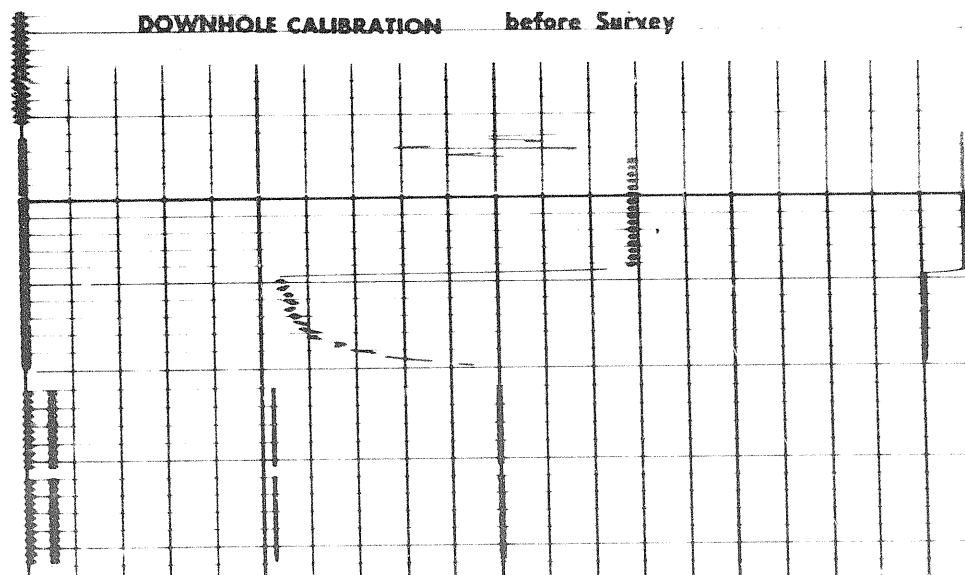
1900



Calibration after Survey



DOWNHOLE CALIBRATION before Survey



Run 1



Run 2



Run 2



Run 3



44 of

Run 3

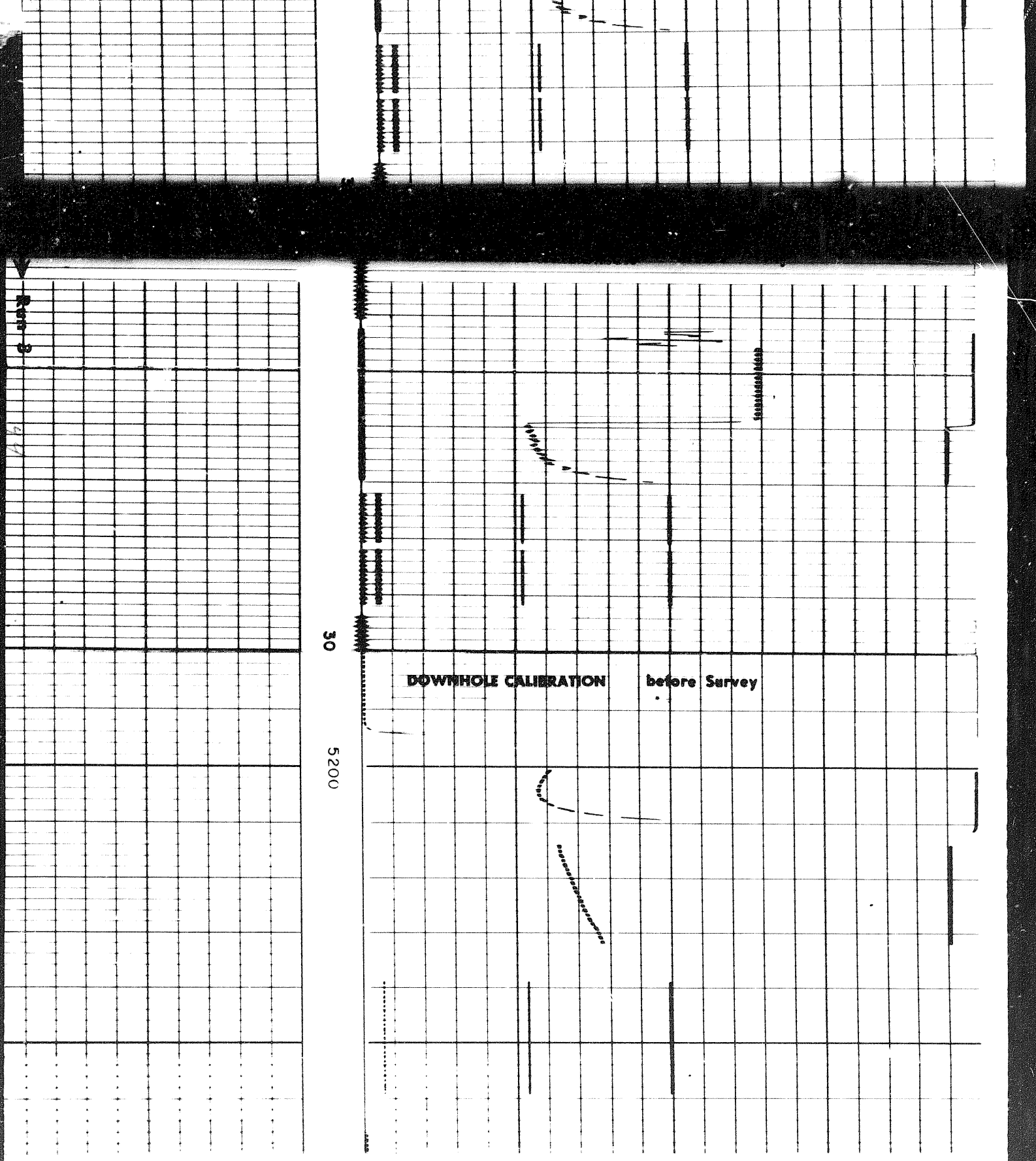
9/17

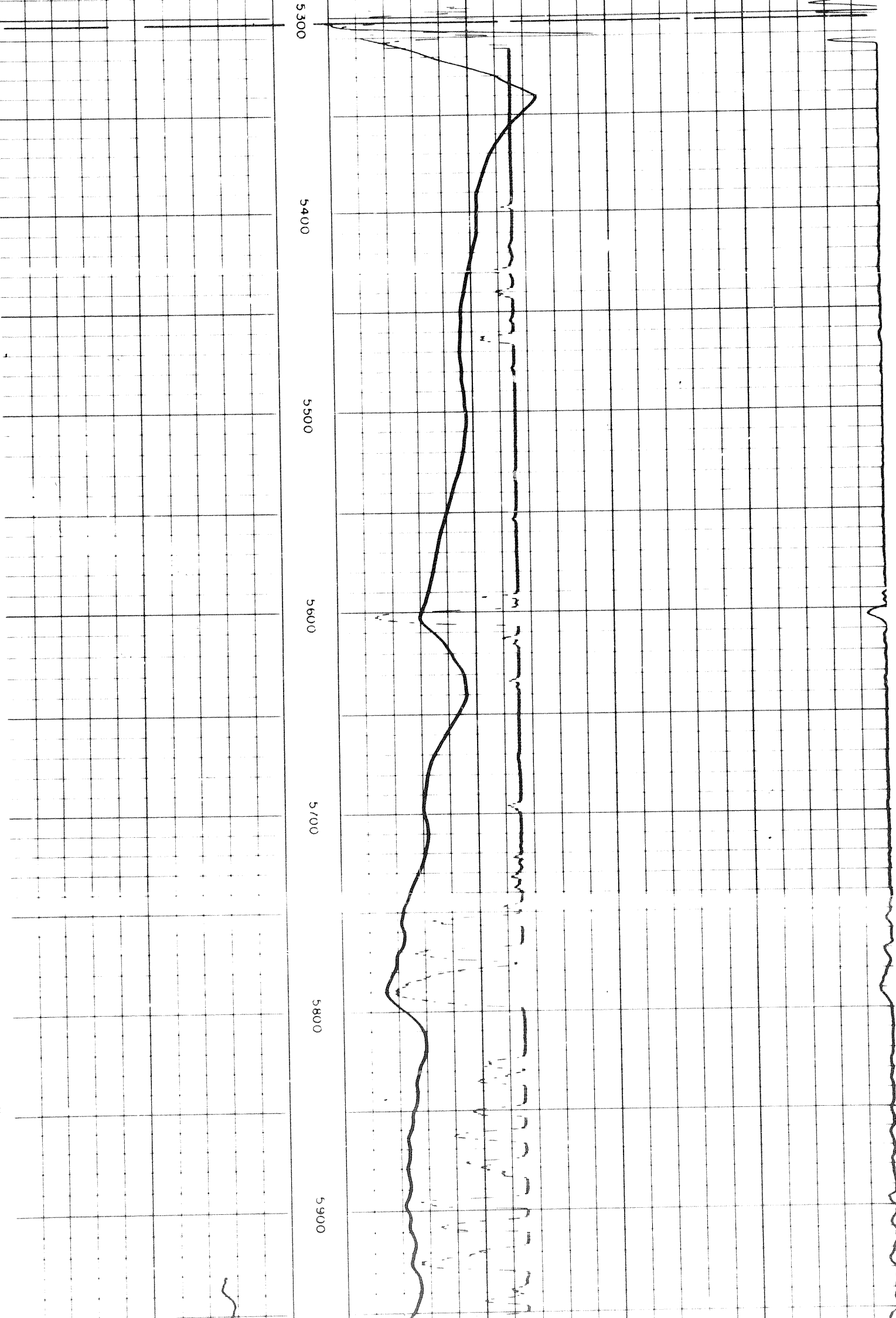
30

5200

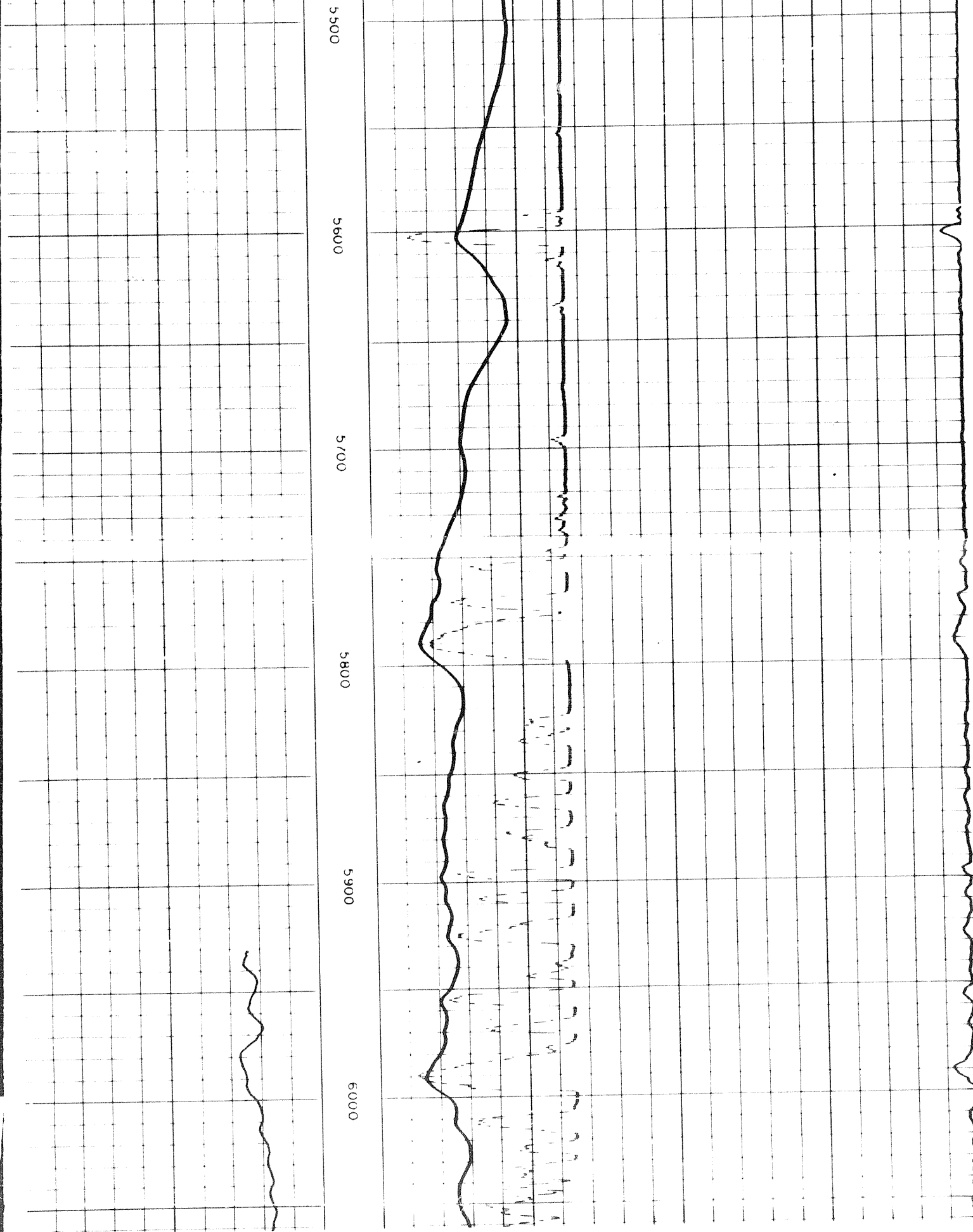
DOWNHOLE CALIBRATION before Survey

ADD Y ON OVERLAP RUN #3

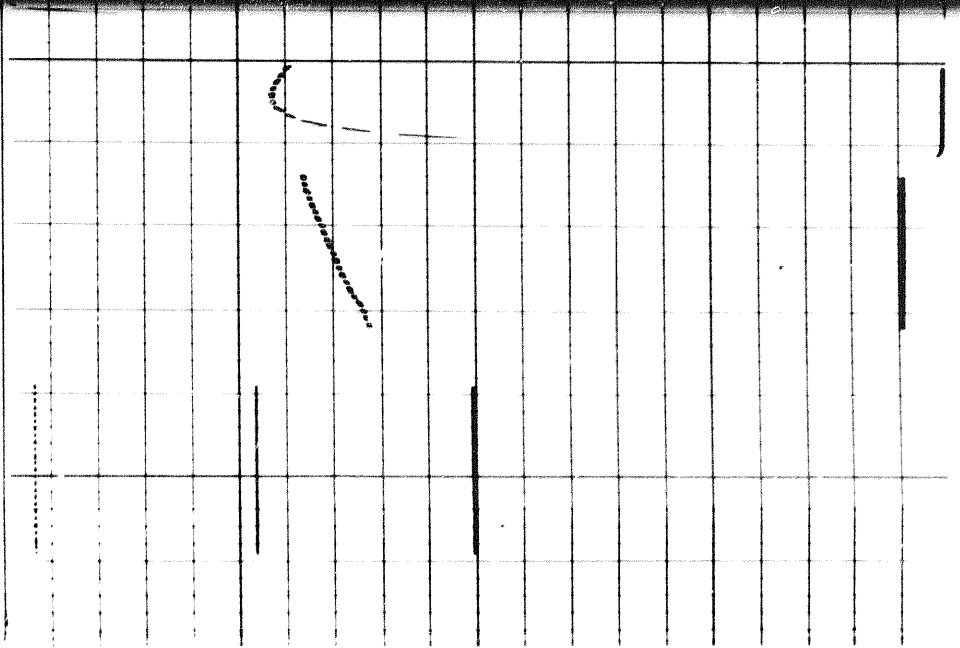




43 of



5200

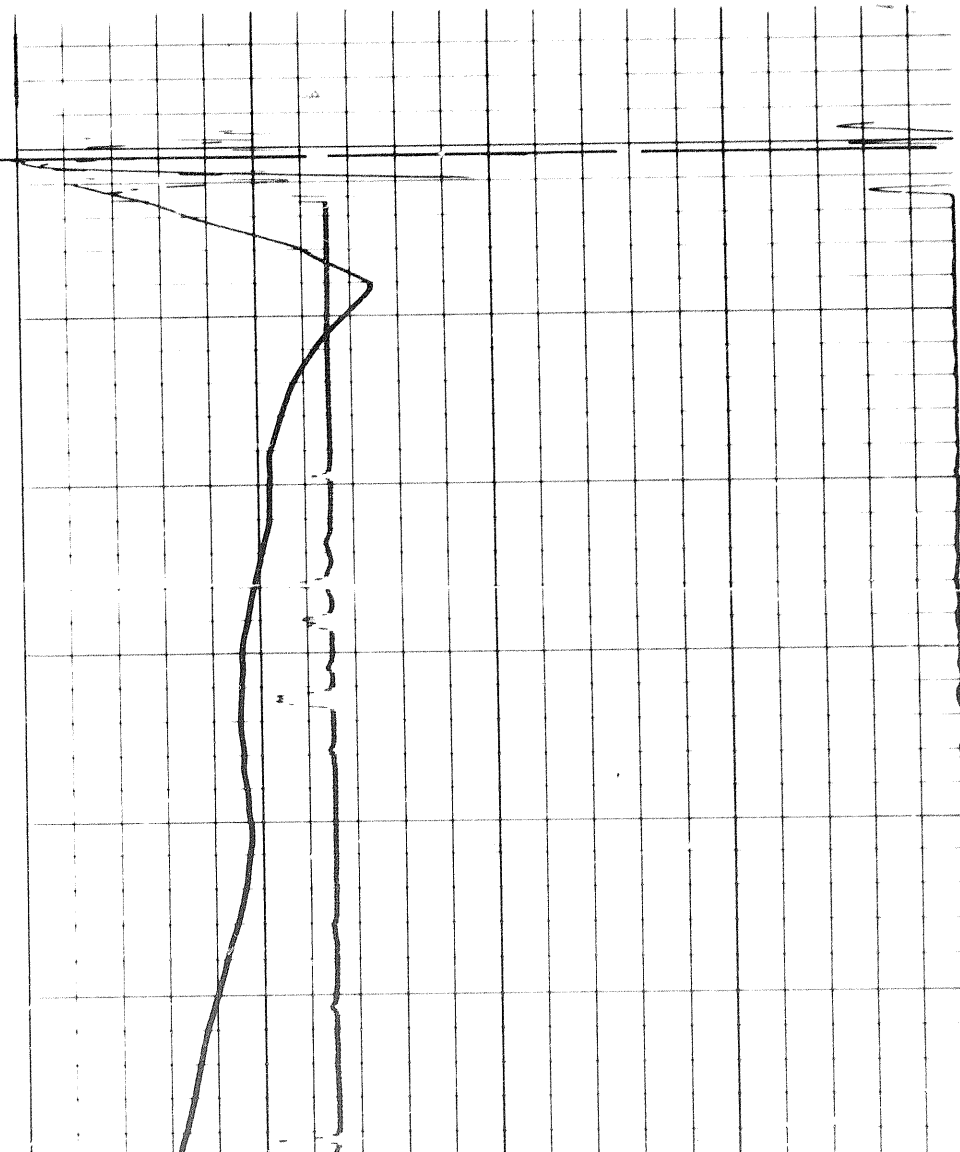


ADDITIONAL OVERLAP RUN #3

5300

5400

5500





46 of 4