

GLO2701-8

CARL N. SAVAGE
IDAHO BUR. MINES & GEOL.

CARL N. SAVAGE P.G.
ASSOCIATES - CLIFF
IDAHO BUR. MINES & GEOL.
MOSCOW, IDAHO 83843

Declassified
per Commission
Regulation
after 1 yr.
C.N. Savage

Schlumberger **DUAL INDUCTION - LATEROLOG**

COUNTY FIELD or LOCATION WELL
COMPANY
COMPANY STANDARD OIL COMPANY OF CALIFORNIA
WELL HIGHLAND L&L #1
FIELD WC - NW CALDWELL AREA
COUNTY PAYETTE STATE IDAHO
LOCATION 2210' FWL & 1650' FNL
Other Services:
BHC
FDC-CNL-GR
HDT
CST
Sec. 24 Twp. 6N Rge. SW

Permanent Datum: C.L., Elev. 2631
Log Measured From KB, 16 Ft. Above Perm. Datum
Drilling Measured From KB
Elev.: K.B. 2647
D.F. —
G.I. 2631

Date	Run No.	Depth - Driller	Depth - Logger	Btm. Log Interval	Top Log Interval	Casing - Driller	Casing - Logger	Bit Size	Type Fluid in Hole	Dens.	Visc.	pH	Fluid Loss	Source of Sample	R _m @ Meas. Temp.	R _{mf} @ Meas. Temp.	R _{mc} @ Meas. Temp.	Source: R _{mf} R _{mc}	R _m @ BHT	Time Since Circ.	Max. Rec. Temp.	Equip. Location	Recorded By	Witnessed By
3-10-73	ONE	1061'	1073'	1072	44	30" @ 40'	44	15"	FGM	72	NA	NA	NA ml	FLOWLINE	10.8 @ 62 °F	8.0 @ 57 °F	15.0 @ 62 °F	M C	7.9 @ 83 °F	1 HR	83 °F	S106 SAC	WEEKS	GILBERT
4-12-73	TWO	7423	7421	7417	3030	13 3/8 @ 3028	3030	9 7/8	DEXTRID GEL	69.5	41	9.0	7.8 ml	FLOWLINE	4.69 @ 74 °F	4.85 @ 77 °F	2.4 @ 77 °F	M M	@ °F	4 1/2 HR	@ °F	7503 SAV	WEEKS	GILBERT
5-2-73	THREE	10,669	10,682	10,676	7177	13 3/8 @ 3028	NA	9 1/8	DEXTRID GEL	76	50	8.5	10.2 ml	CIRC.	4.32 @ 78 °F	3.56 @ 76 °F	3.47 @ 76 °F	MEGS m	1.35 @ 252 °F	5 1/2 HR	252 °F	7517 BKS	DELAND	Gilbert
5-23-73	FOUR	11,947	11,961	11,958	10,340	13 3/8 @ 3028	3032	9 1/8	GEL-LIGNITE	74	45	10.0	19cc	CIRC.	.494 @ 114 °F	.607 @ 74 °F	.512 @ 74 °F	M M	@ °F	5 1/2	SEE REMARKS °F	3714 BKS	FRYT	GILBERT

FOLD HERE The well name, location and borehole reference data were furnished by the customer.

CHANGES IN MUD TYPE OR ADDITIONAL SAMPLES	SCALE CHANGES	Depth	Scale Up Hole	Scale Down Hole
Date	Type Log	Depth	Scale Up Hole	Scale Down Hole
Depth - Driller				
Type Fluid in Hole				
Dens.				
ph				
Source of Sample				
R _m @ Meas. Temp.				
R _{mf} @ Meas. Temp.				
R _{mc} @ Meas. Temp.				
Source: R _{mf} R _{mc}				
R _m @ BHT				
R _{mf} @ BHT				
R _{mc} @ BHT				

REMARKS
Service Order No. -
API Serial No. -

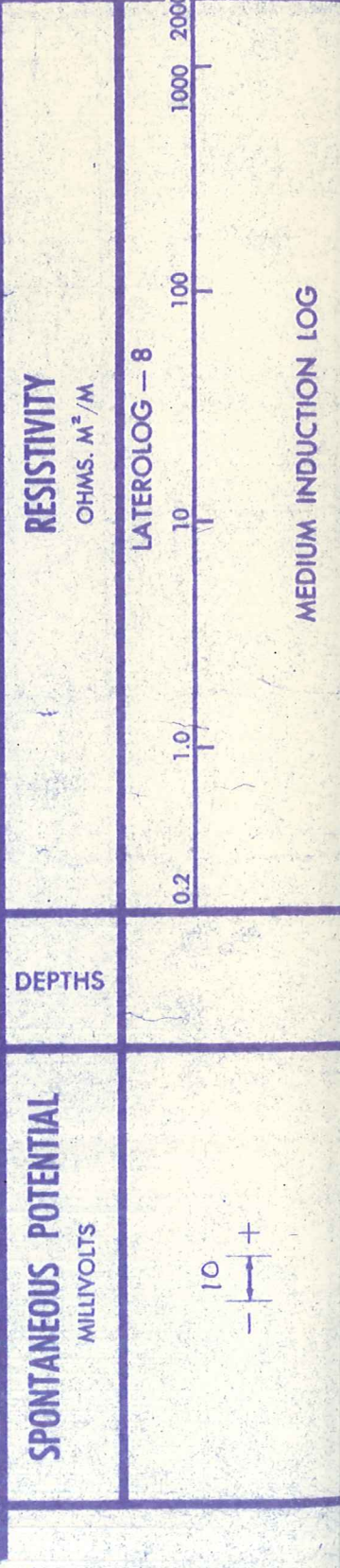
RUN 2: STARTED @ 0730 FINISHED 0900
RUN 3: OFF BTM. AT 1900
BROKE CIRC. AT: 1330

Run 4: OFF Bottom at 0445
Drake Circulation at 2200
* Driller T.D. 11,963 Plugged back to 11,987
thermometer lost in hole

 Surface determined sonde errors used.
 Sonde error corrected for _____ inch
 Induction zero set in hole at depth of _____ feet.

CALIBRATION DATA	
CALIBRATION:	BACKGND. CPS. SOURCE GALV. INCR. DIVISION SENS. TAP (FOR CAL.) SENS. TAP (RECORD) TIME CONST.
GAMMA RAY:	

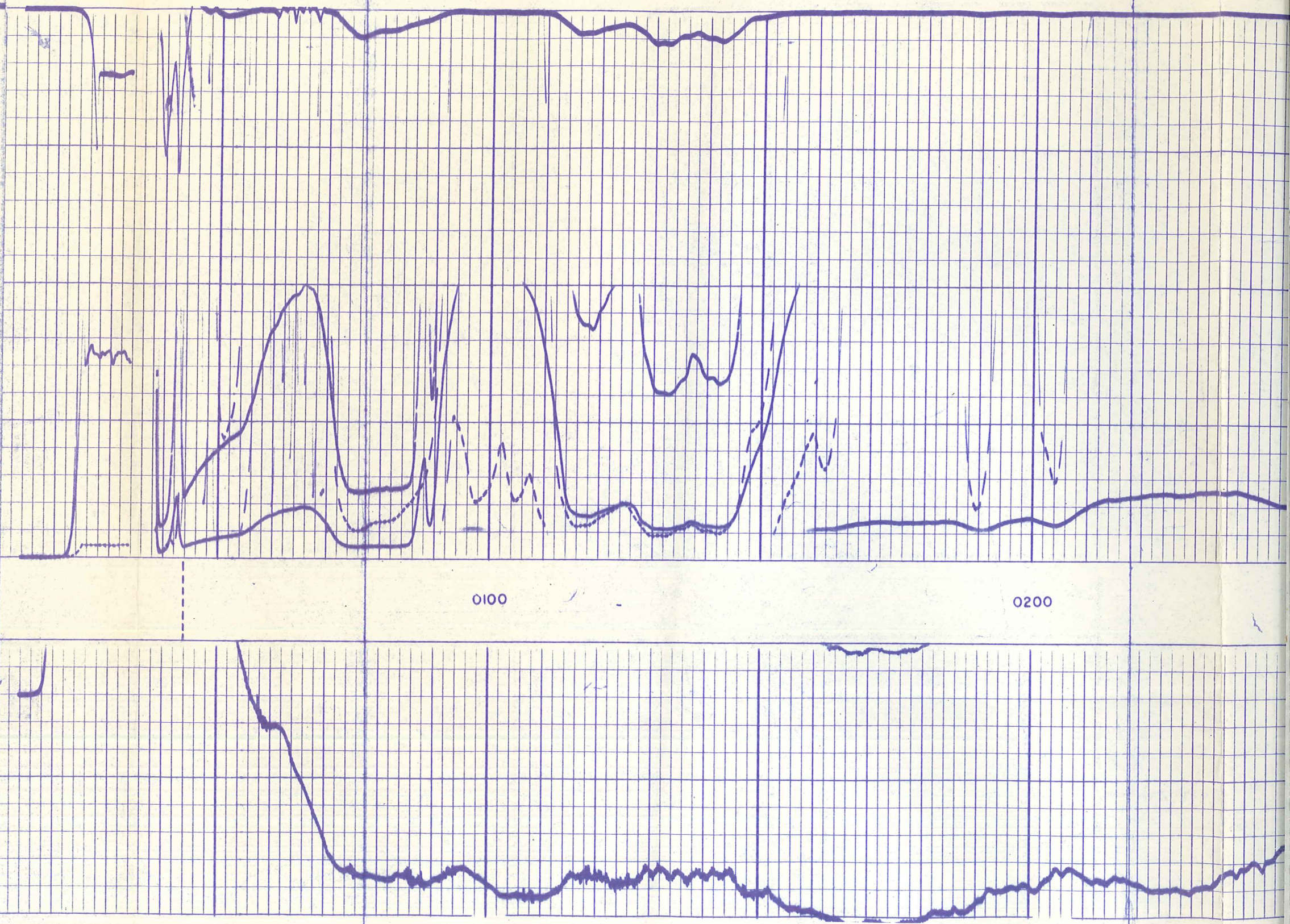
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

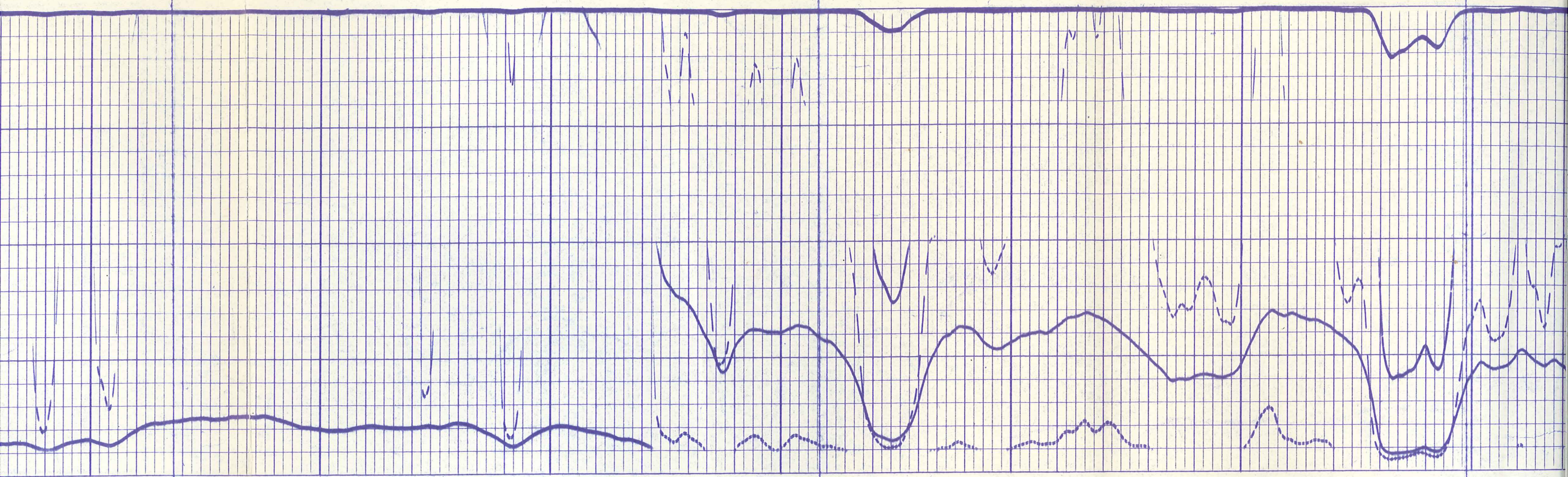


CALIBRATION DATA		SOURCE		GALV. INCR.		SENS. TAP		SENS. TAP		TIME	
CALIBRATION:		CPS.		DIVISION		(FOR CAL.)		(RECORD)		CONST.	
GAMMA RAY:		CPS.		DIVISION		(FOR CAL.)		(RECORD)		CONST.	

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

SPONTANEOUS POTENTIAL MILLIVOLTS 10 	DEPTHS	RESISTIVITY OHMS. M ² /M LATEROLOG - 8
		MEDIUM INDUCTION LOG
		DEEP INDUCTION LOG



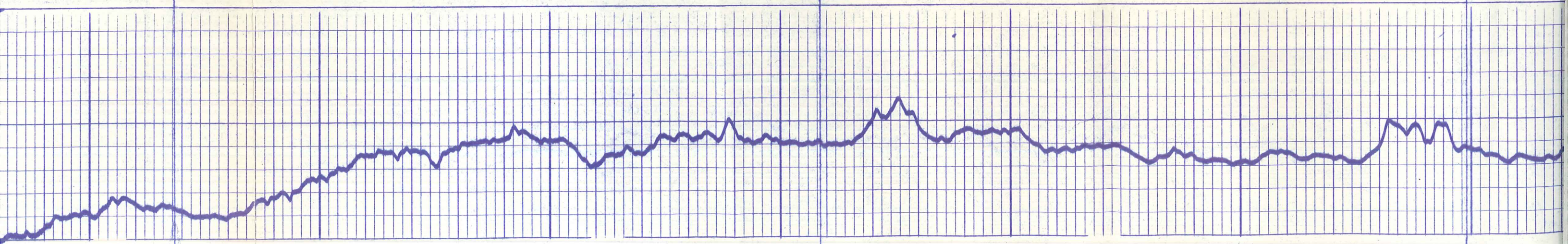


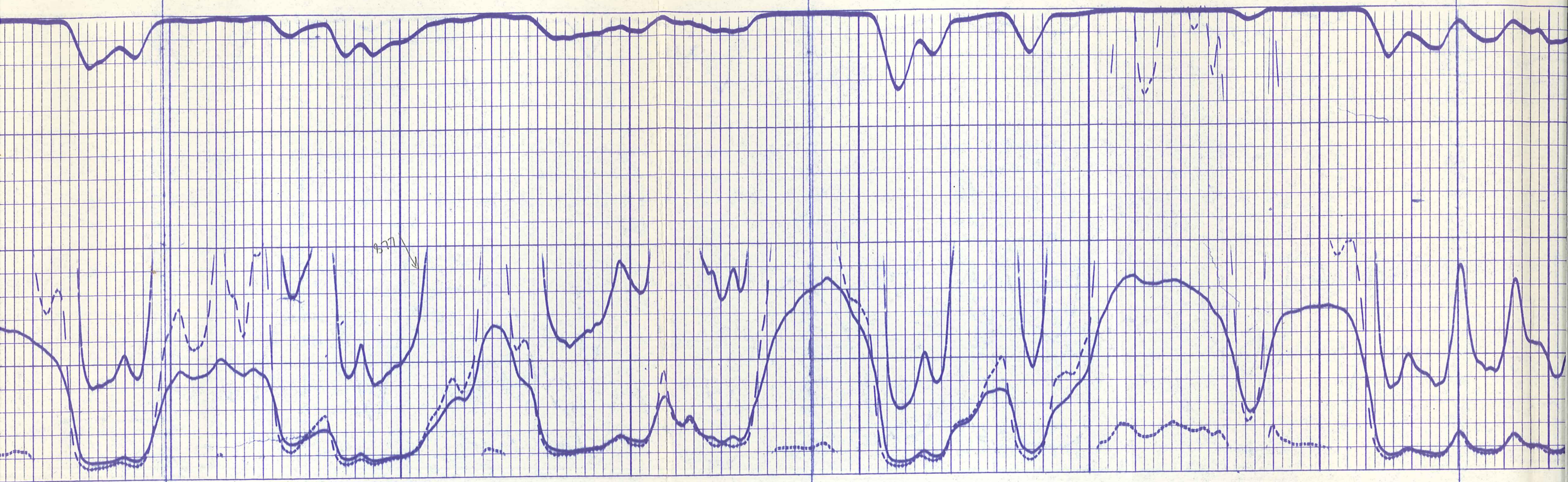
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0300

0400

0500



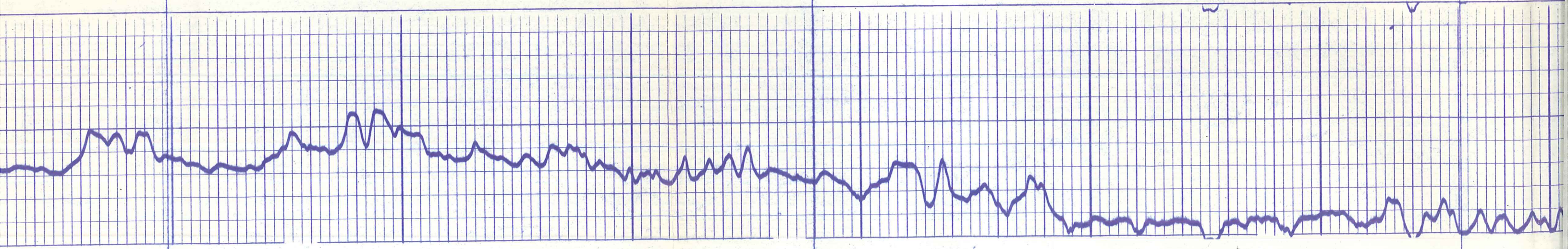


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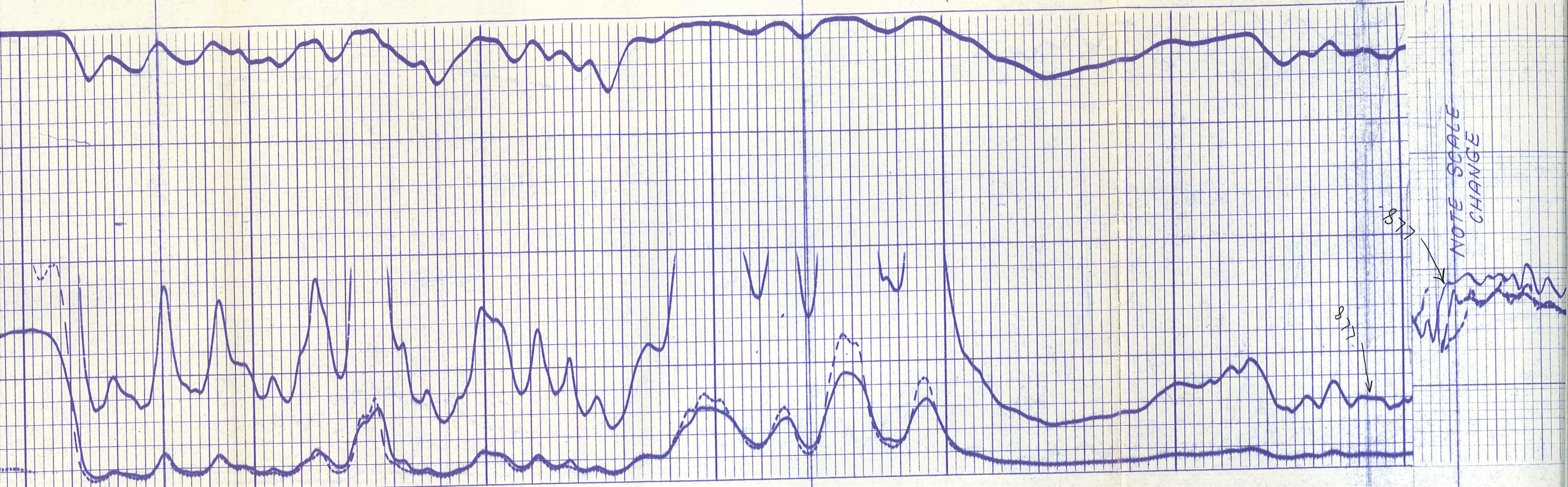
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0700

0800



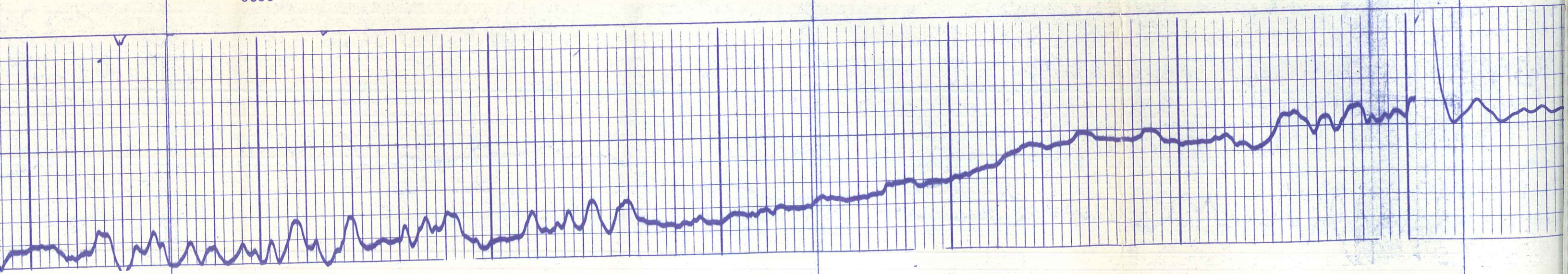
basally
pyroclastic
here.



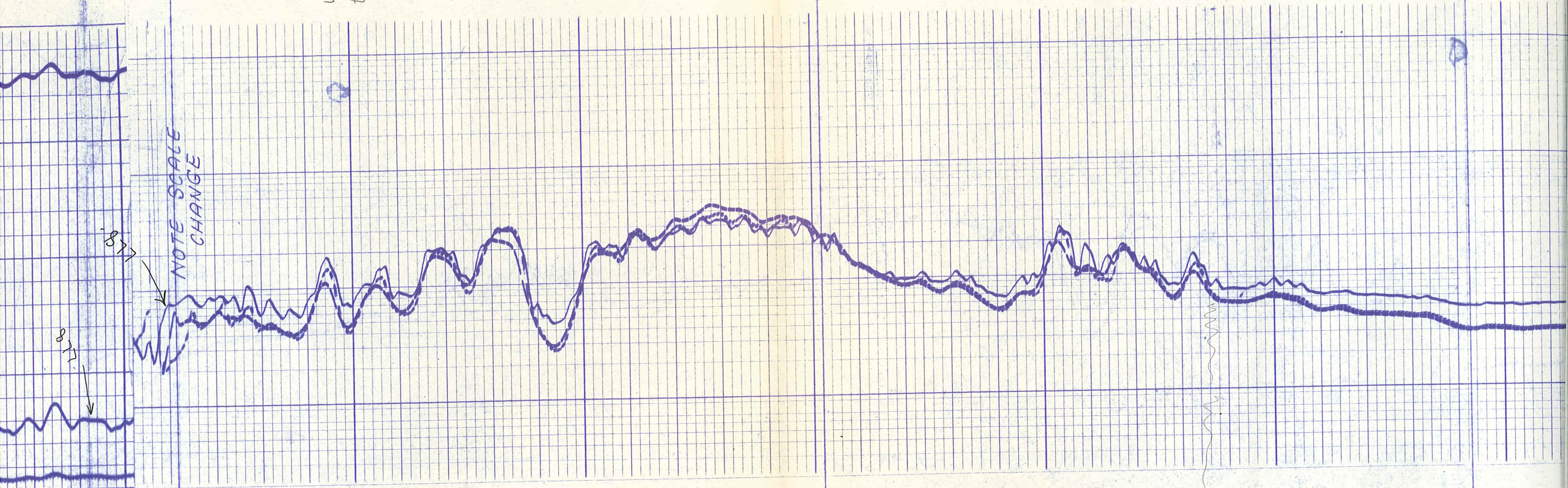
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0900

1000



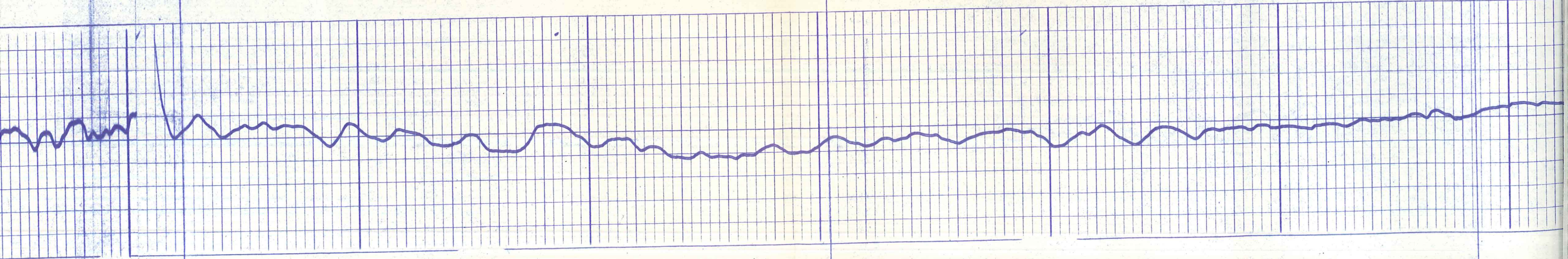
volc.
fragments



1100

1200

1300



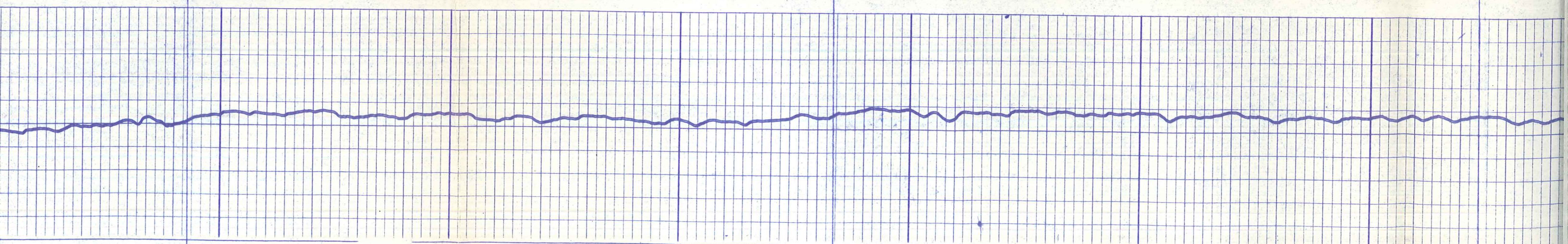
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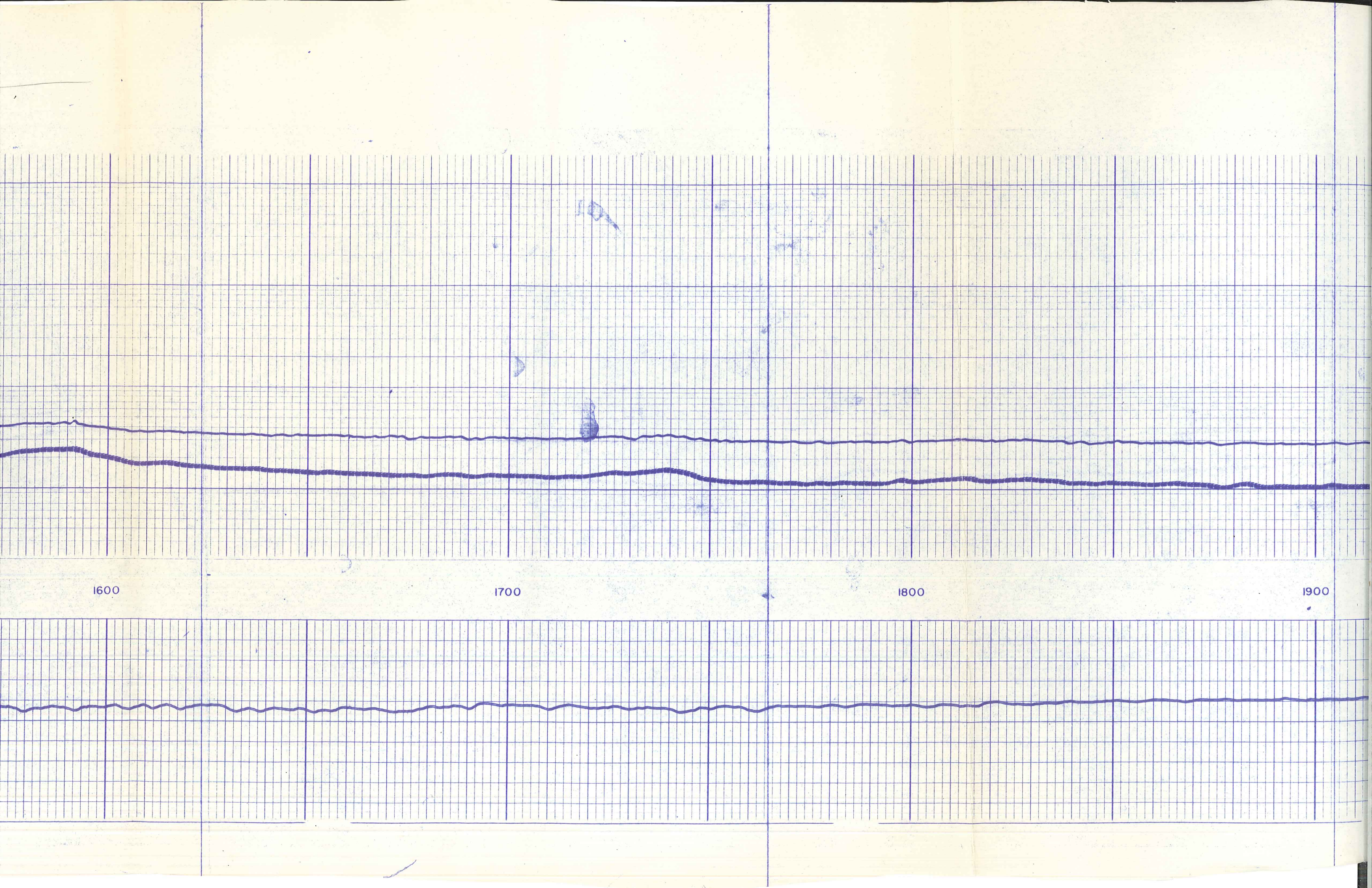


1400

1500

1600



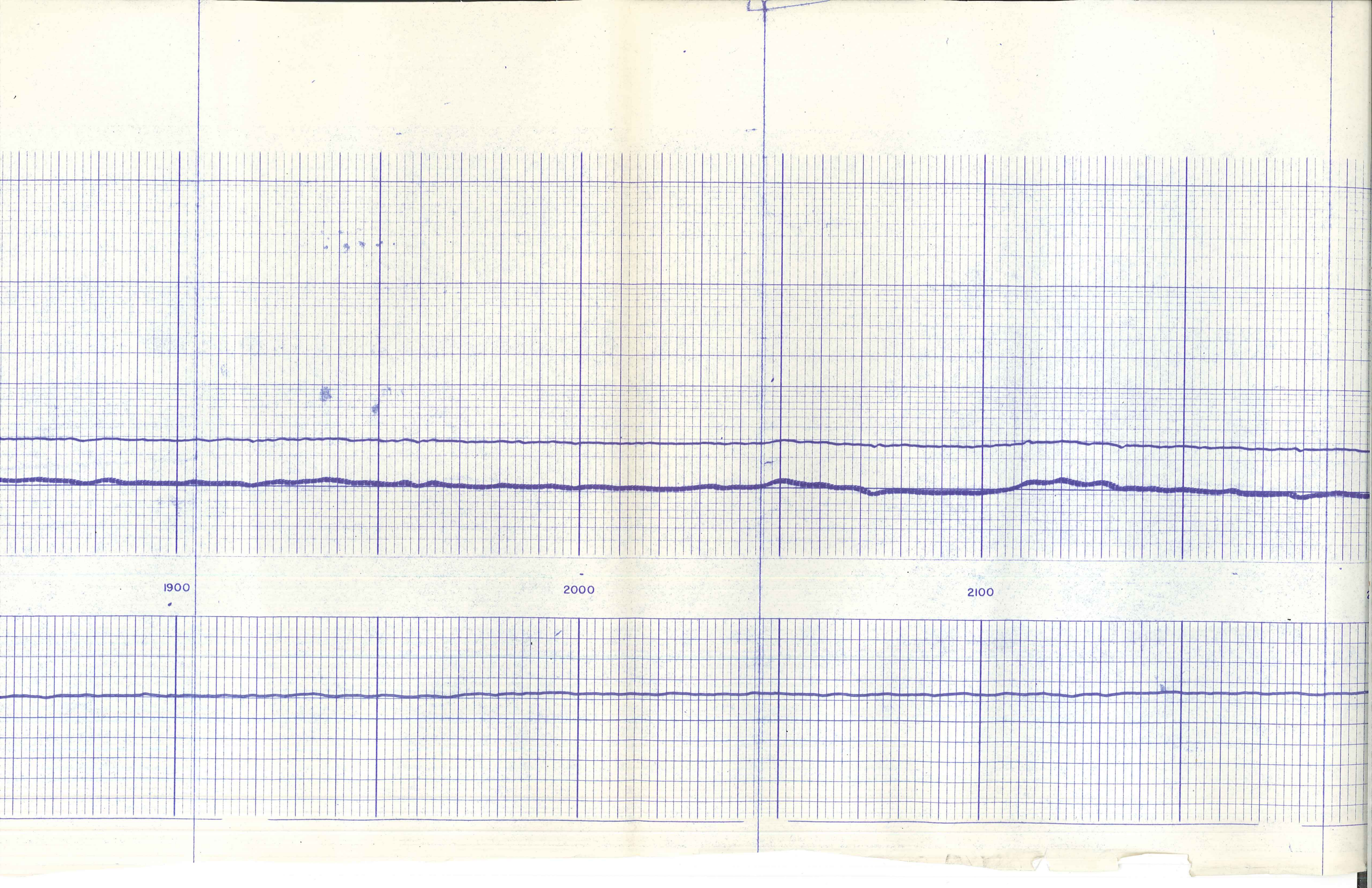


1600

1700

1800

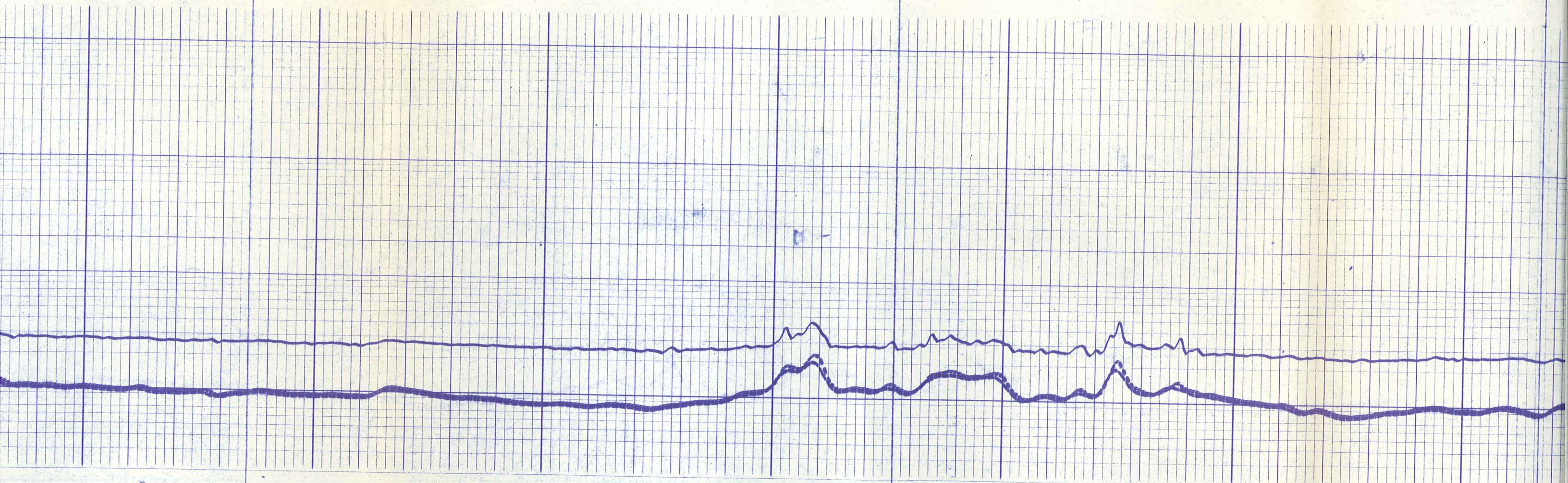
1900



1900

2000

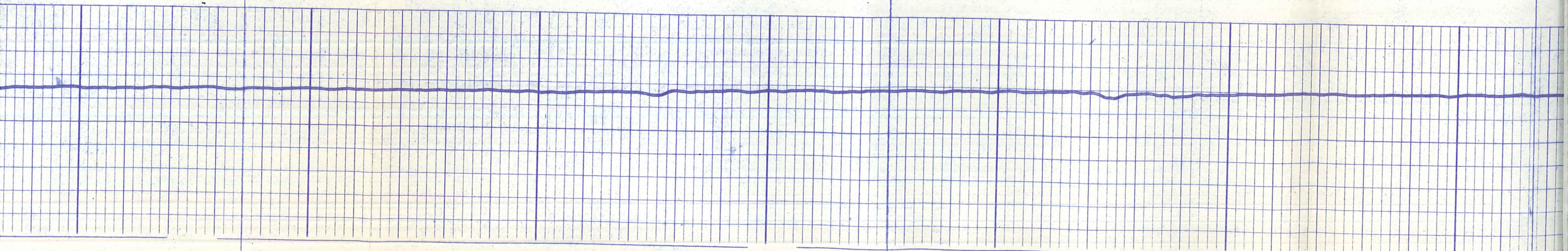
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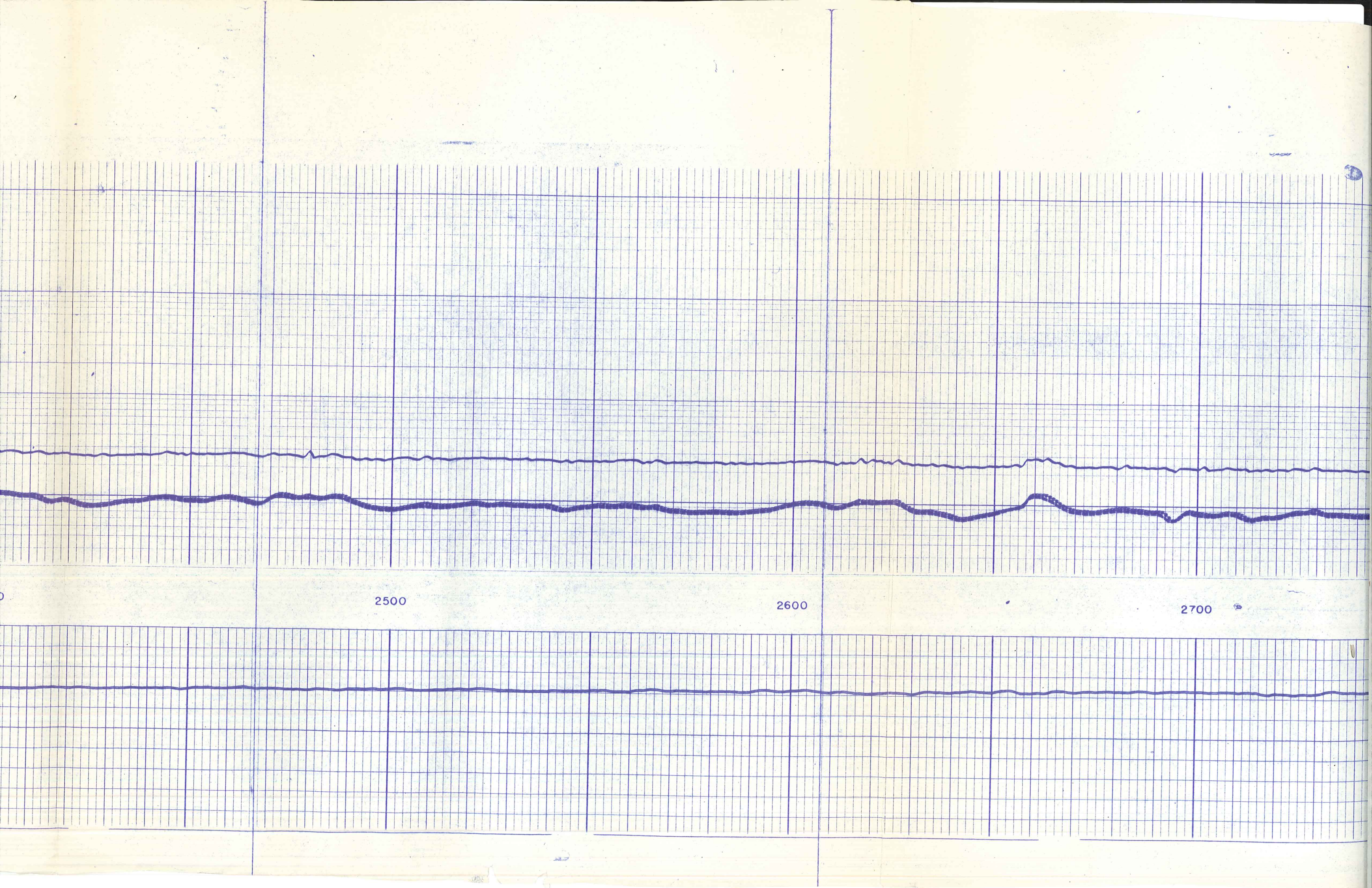


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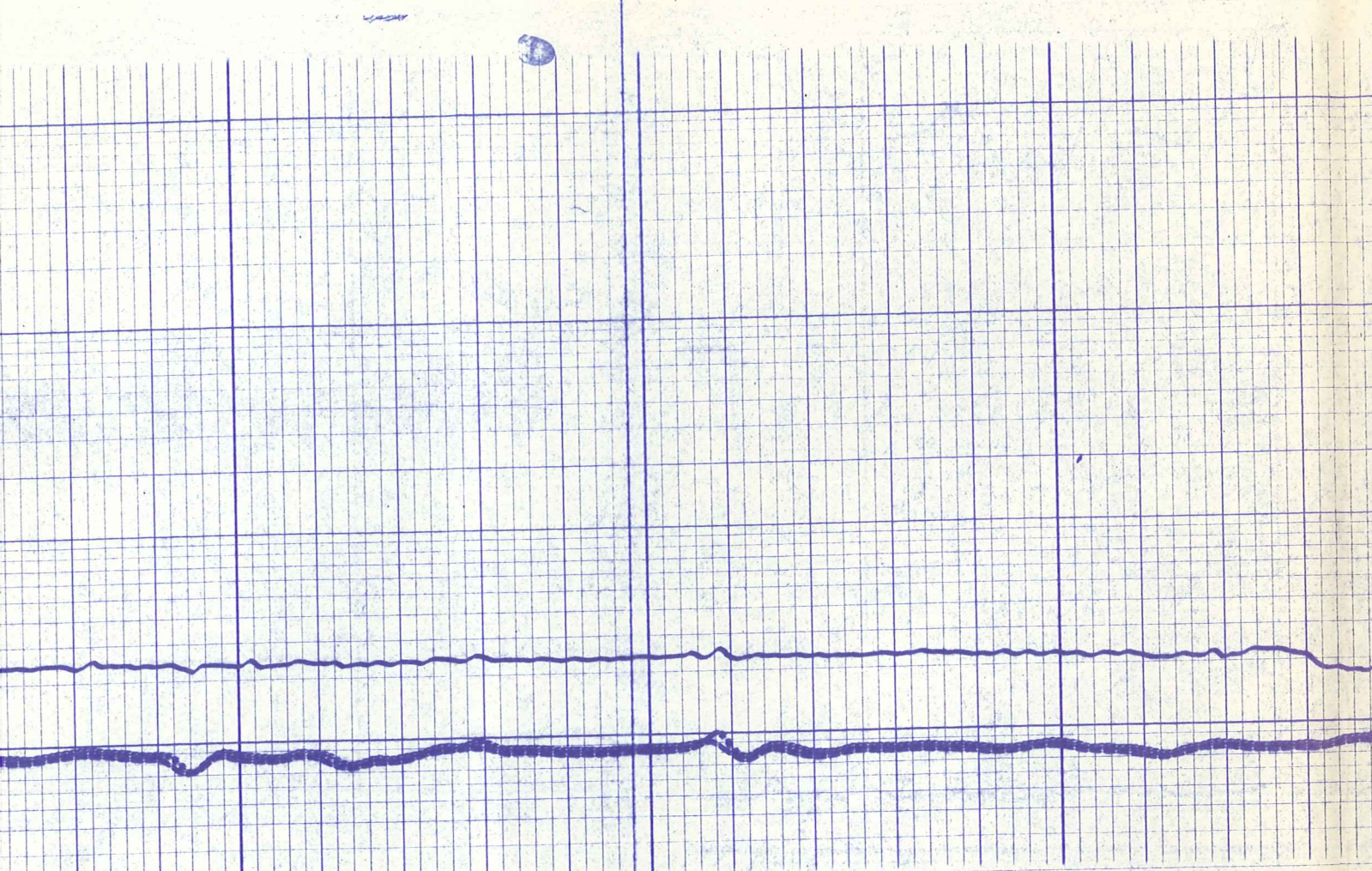




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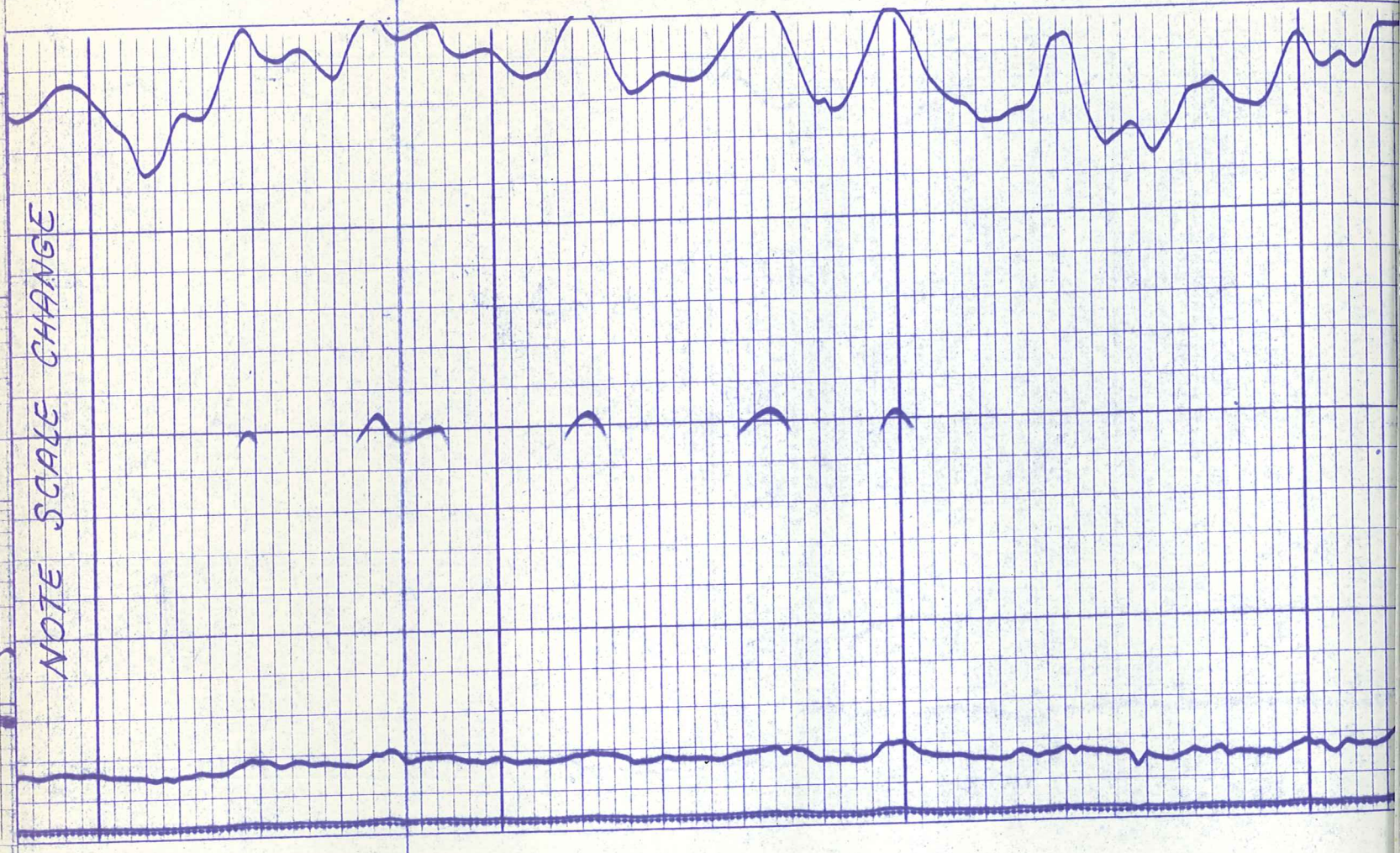
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2700



2700

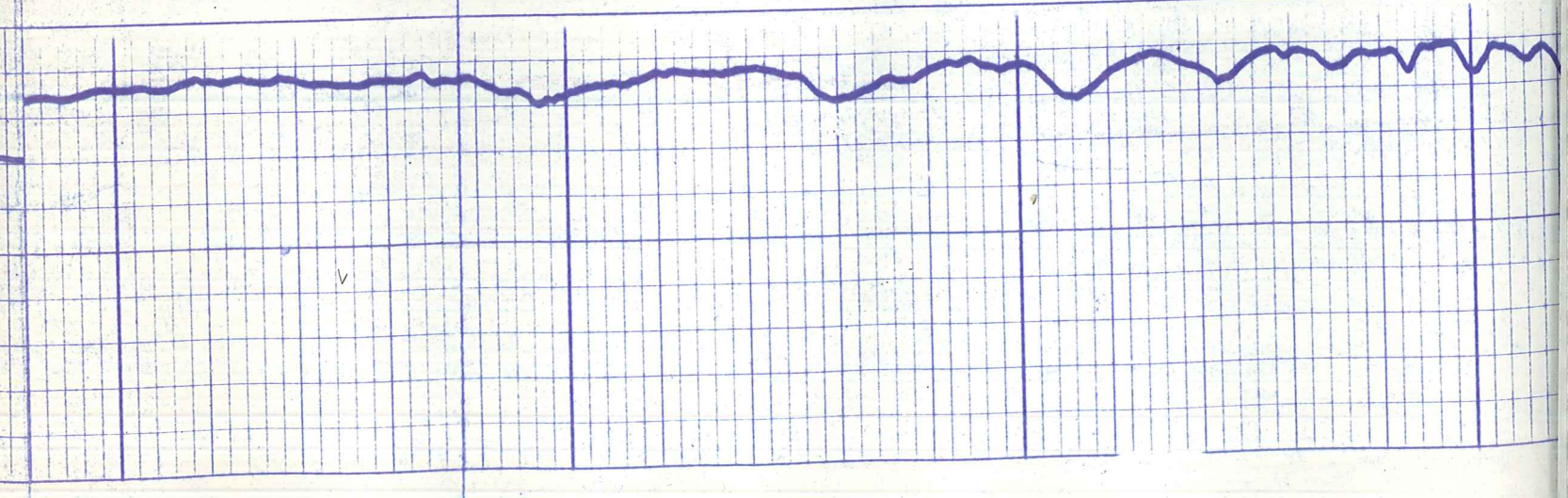
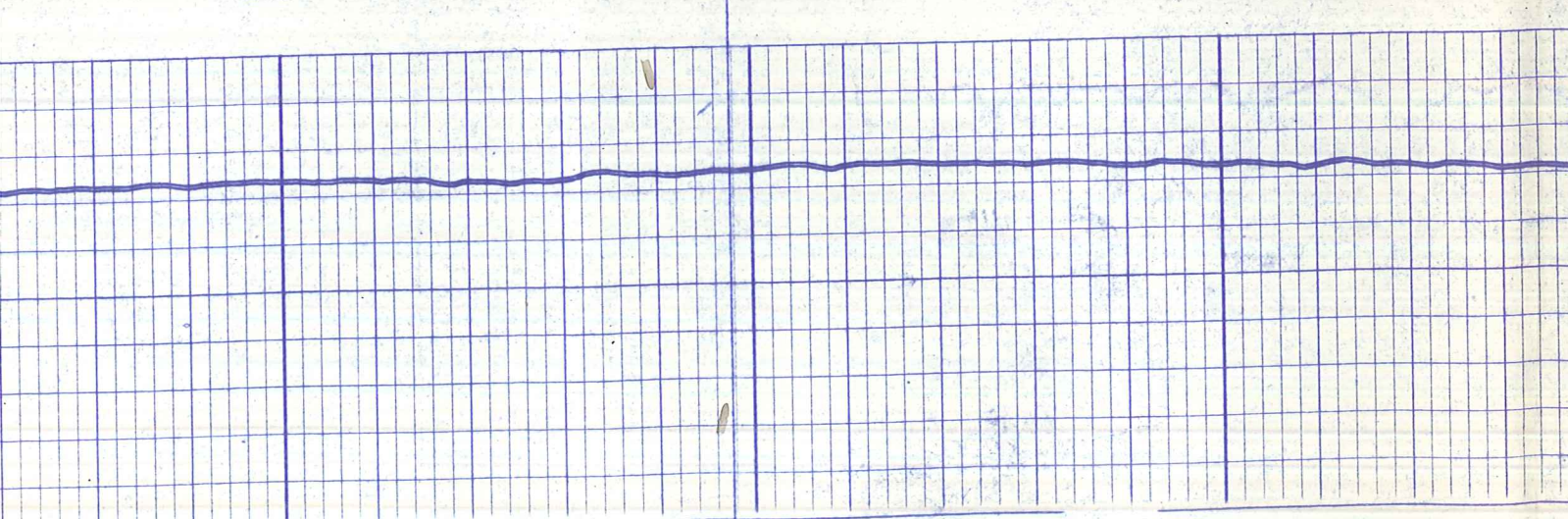
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NOTE SCALE CHANGE

2900

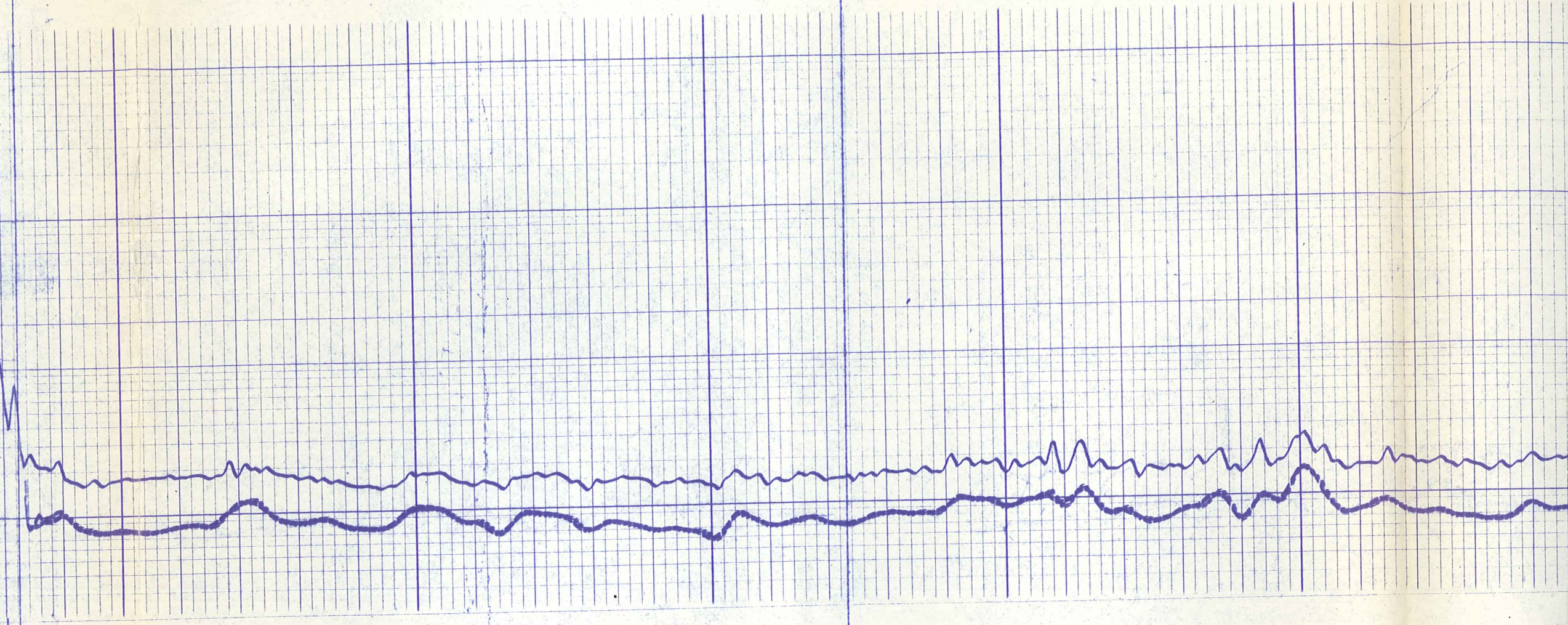
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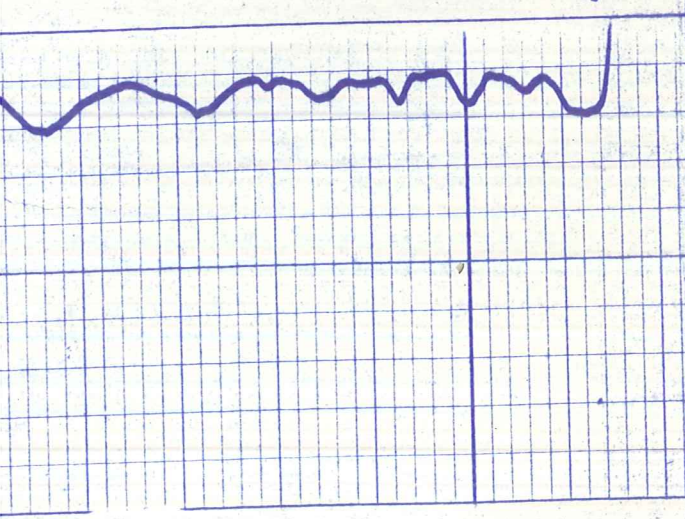
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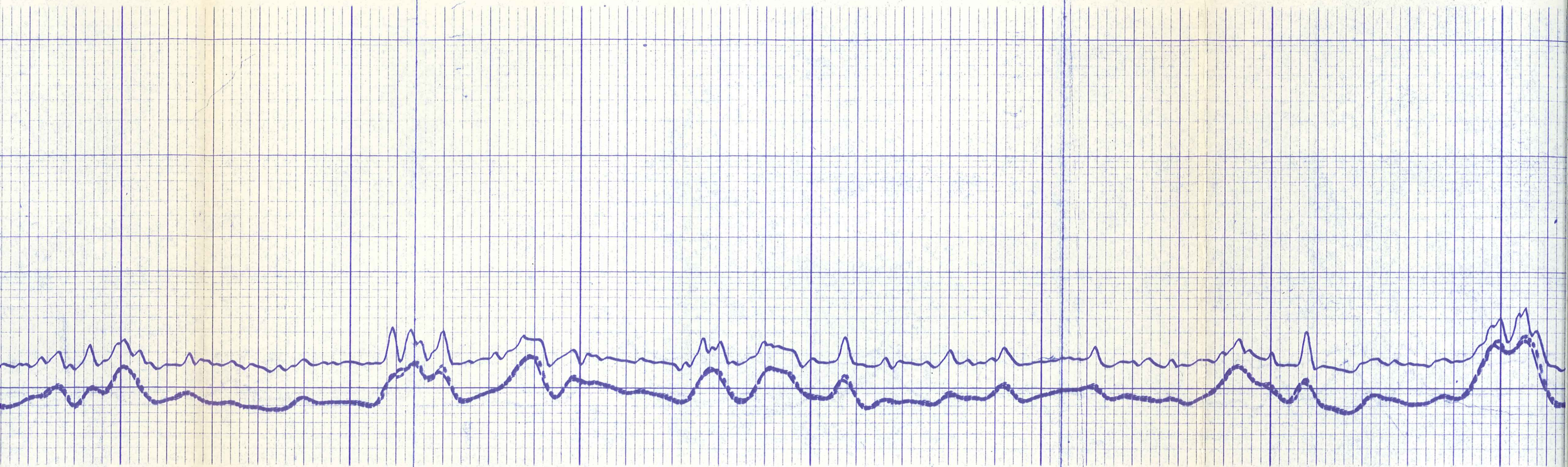
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3100

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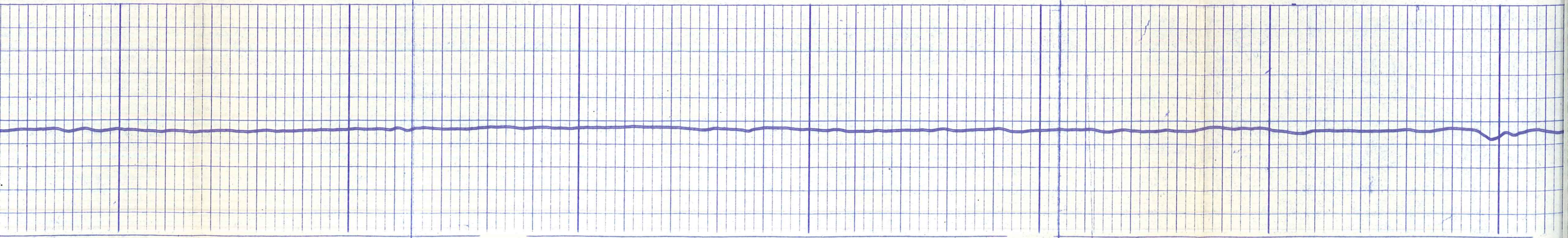


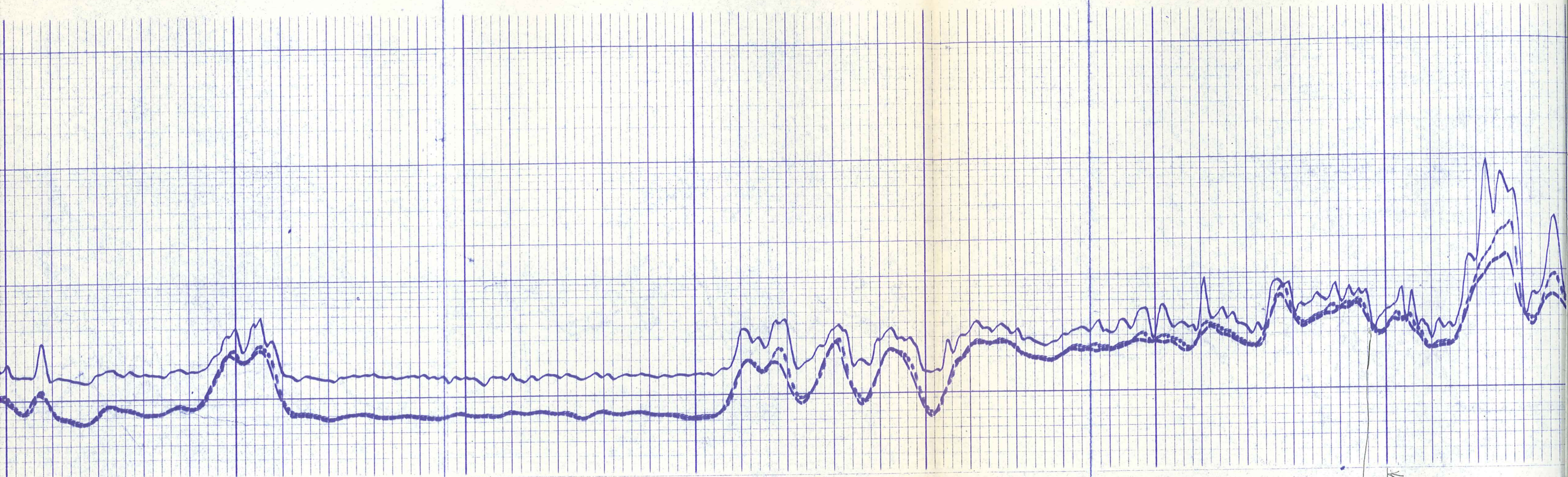


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3500



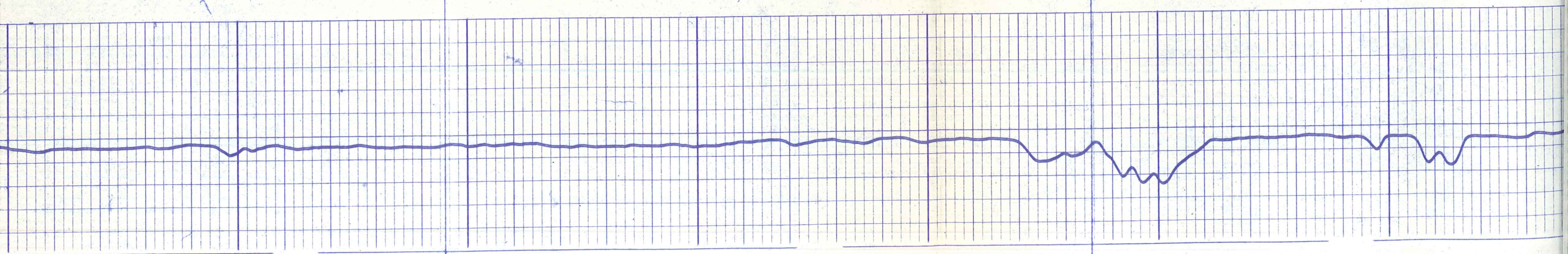


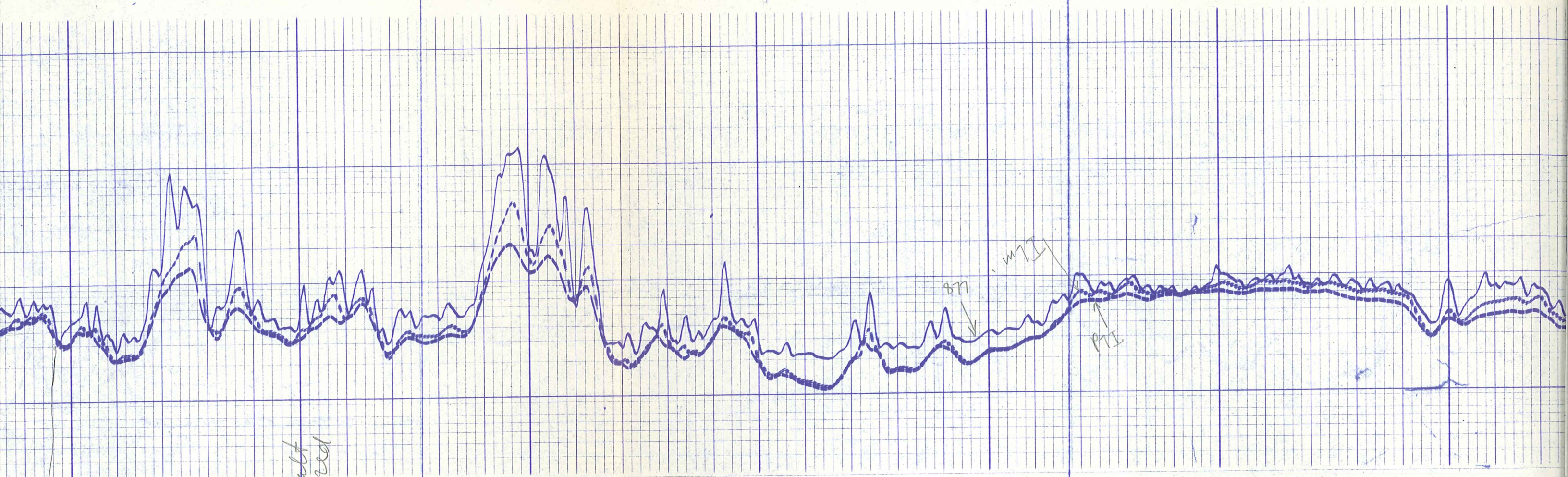
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3700

3800





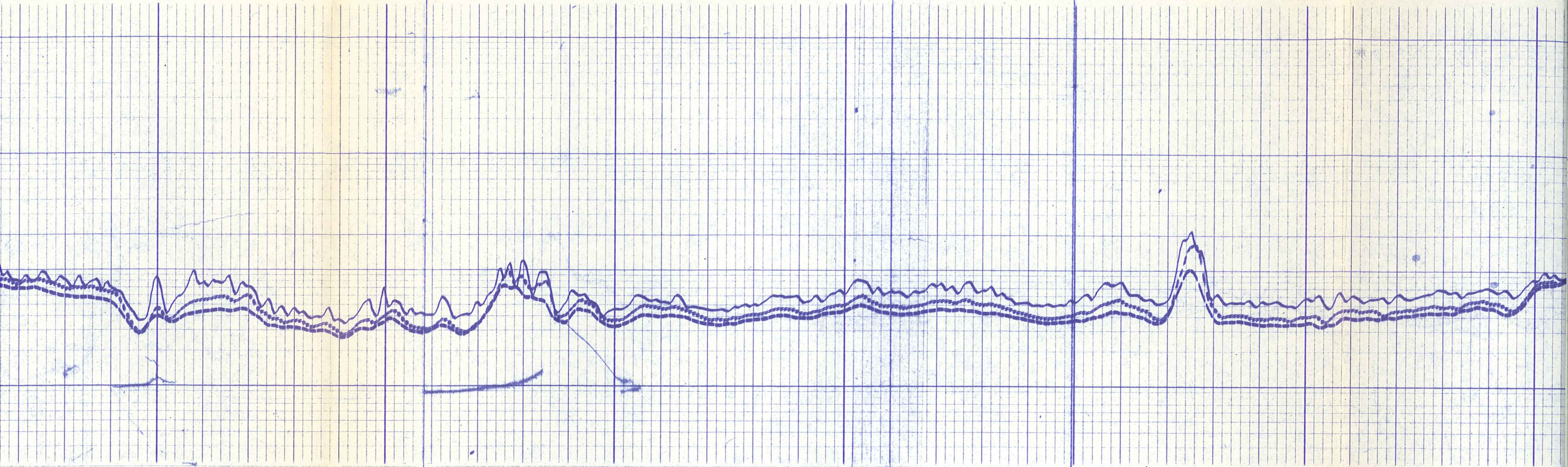
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barrett
cored

3900

4000

4100

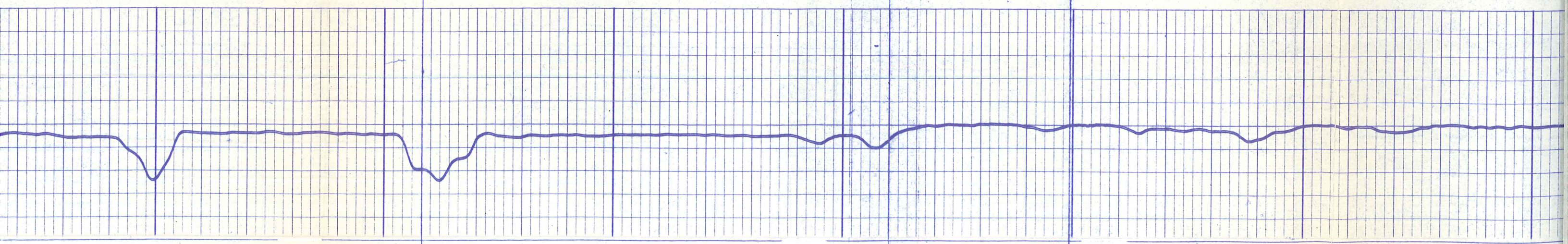


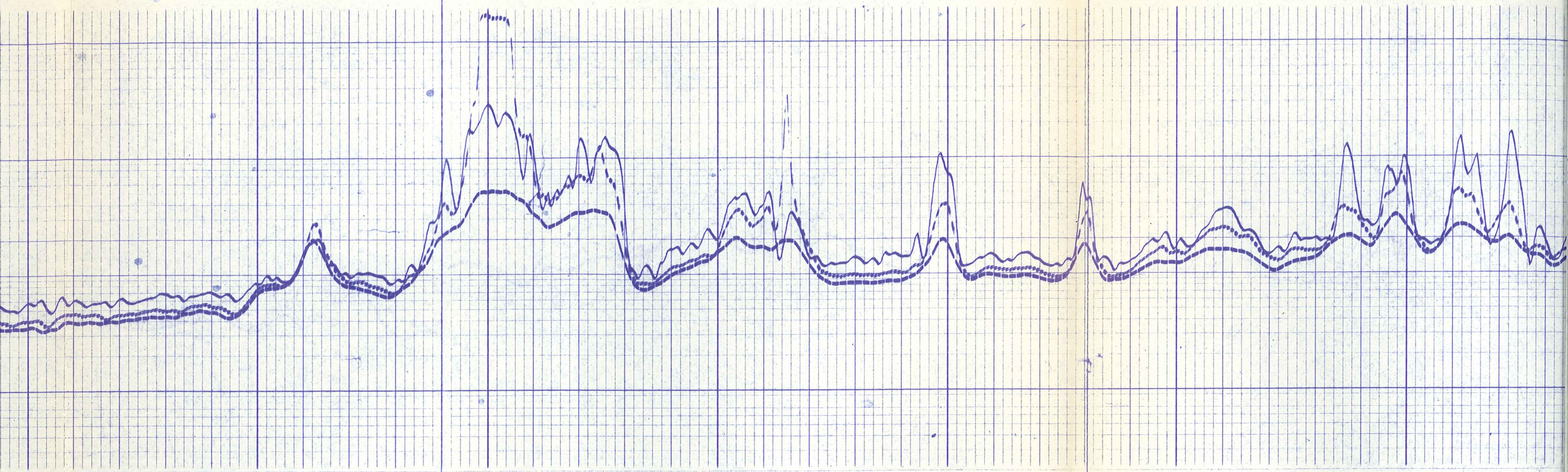
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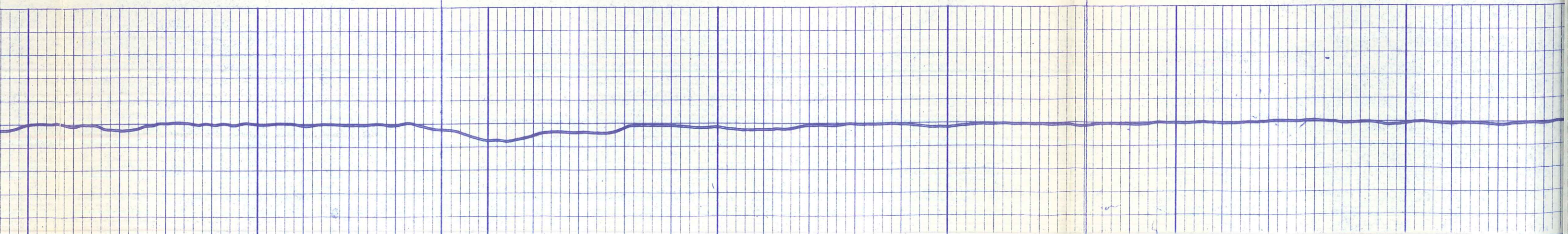




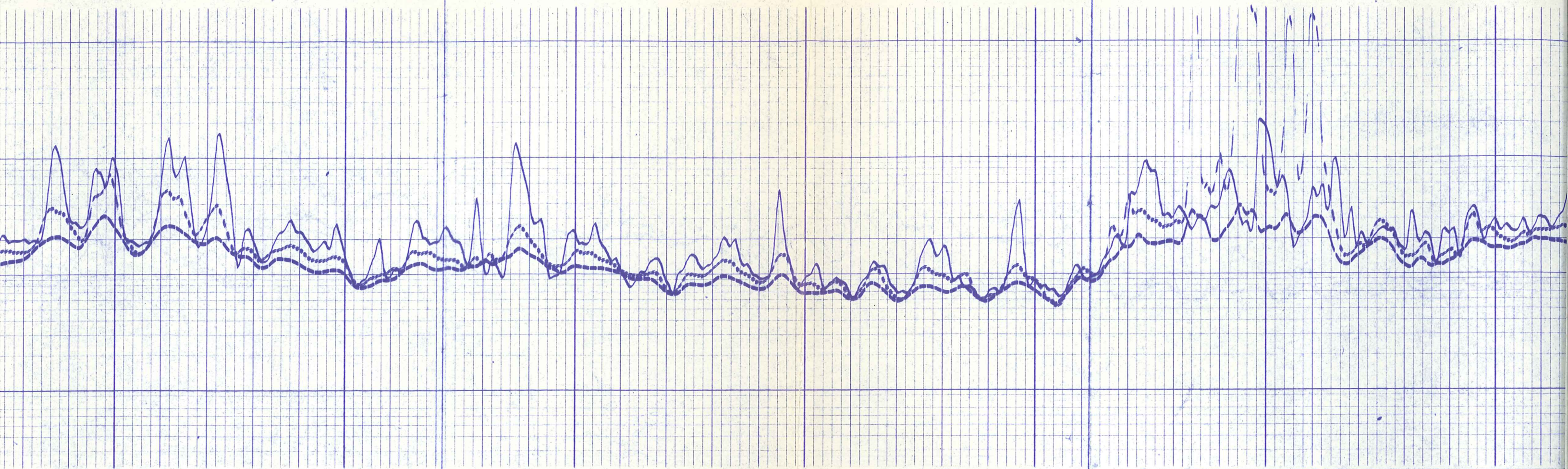
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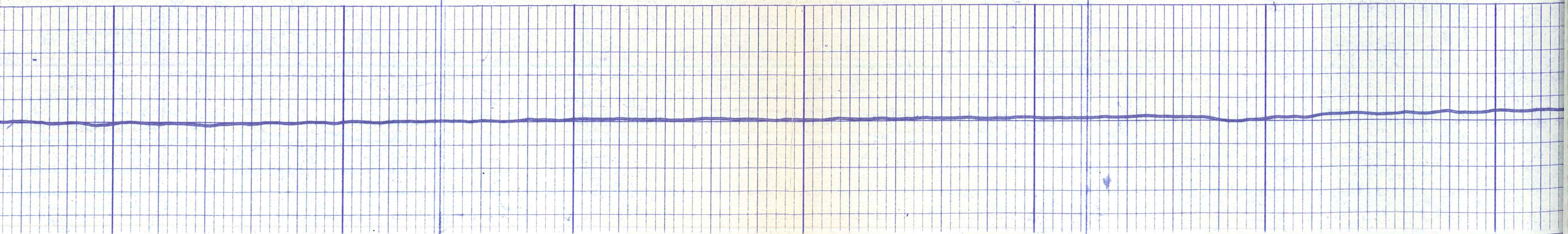
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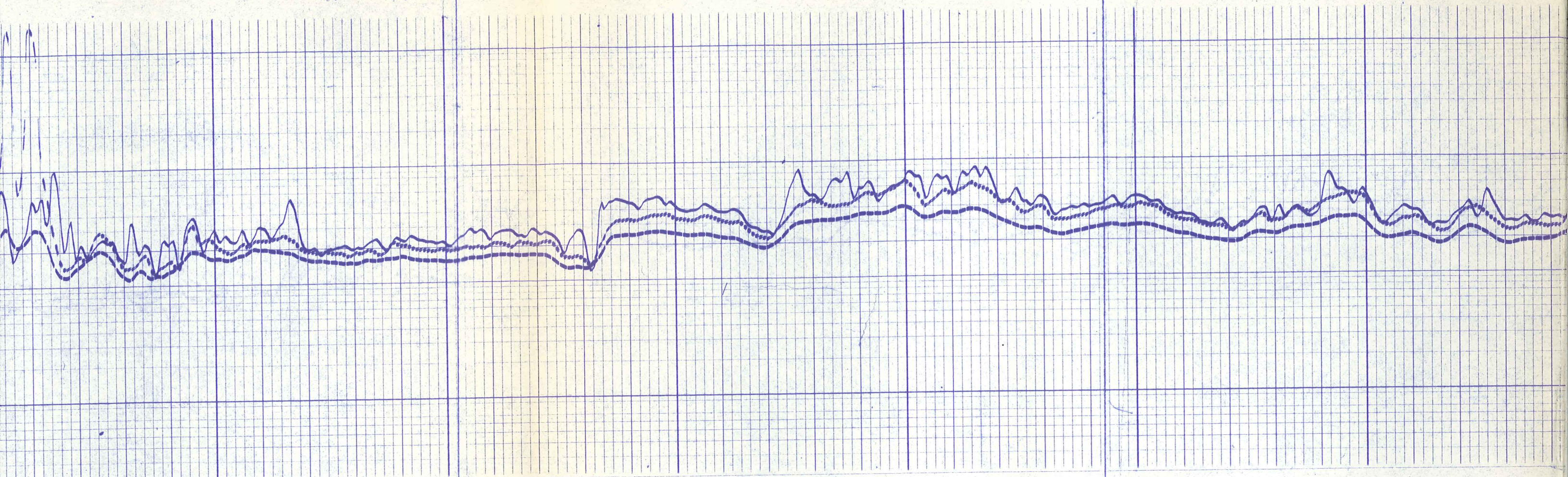


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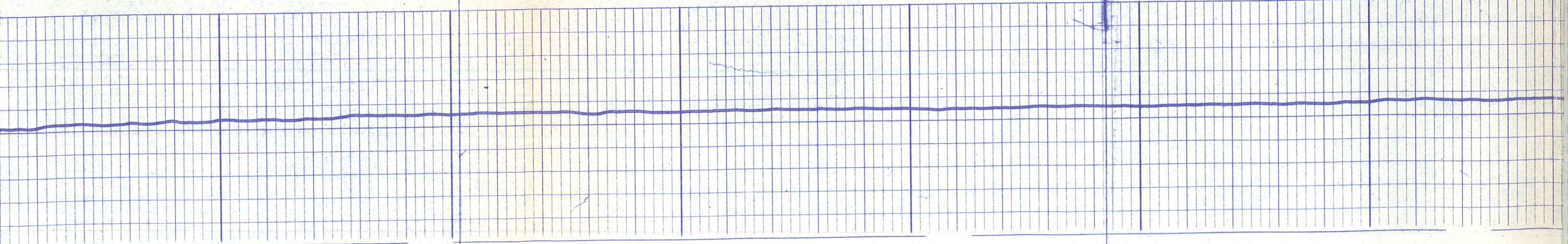


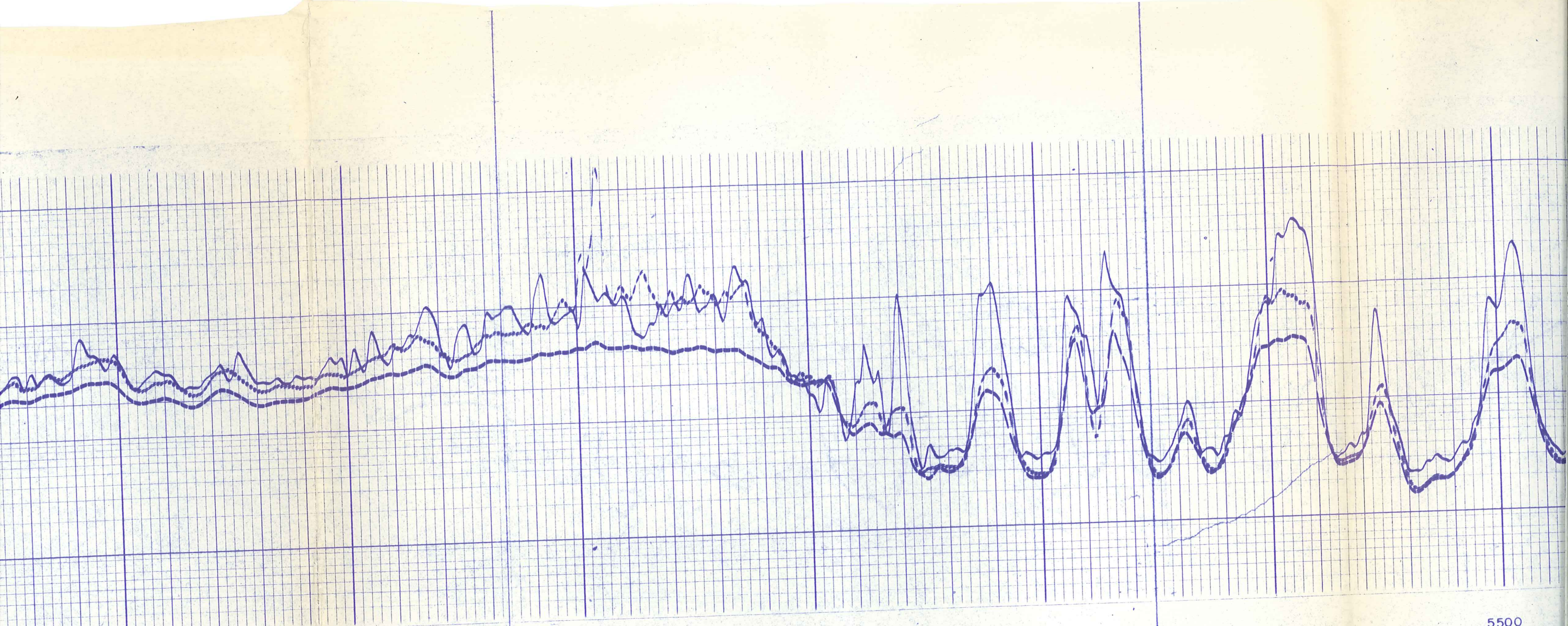


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5100

5200



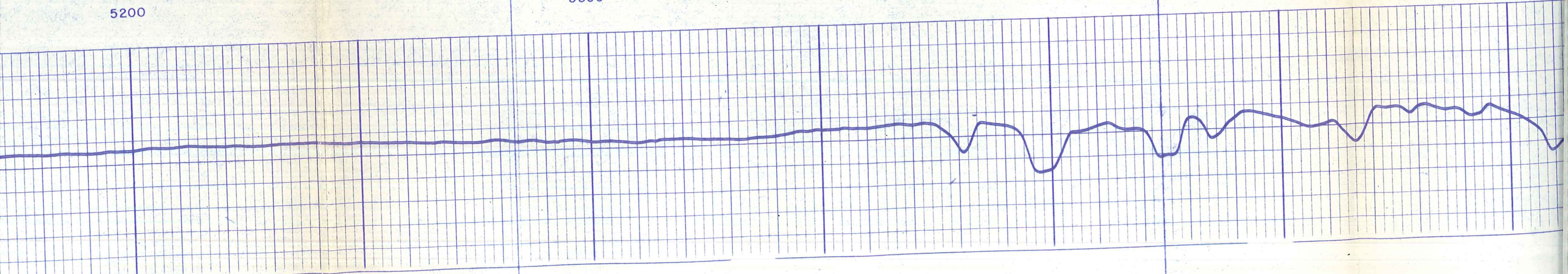


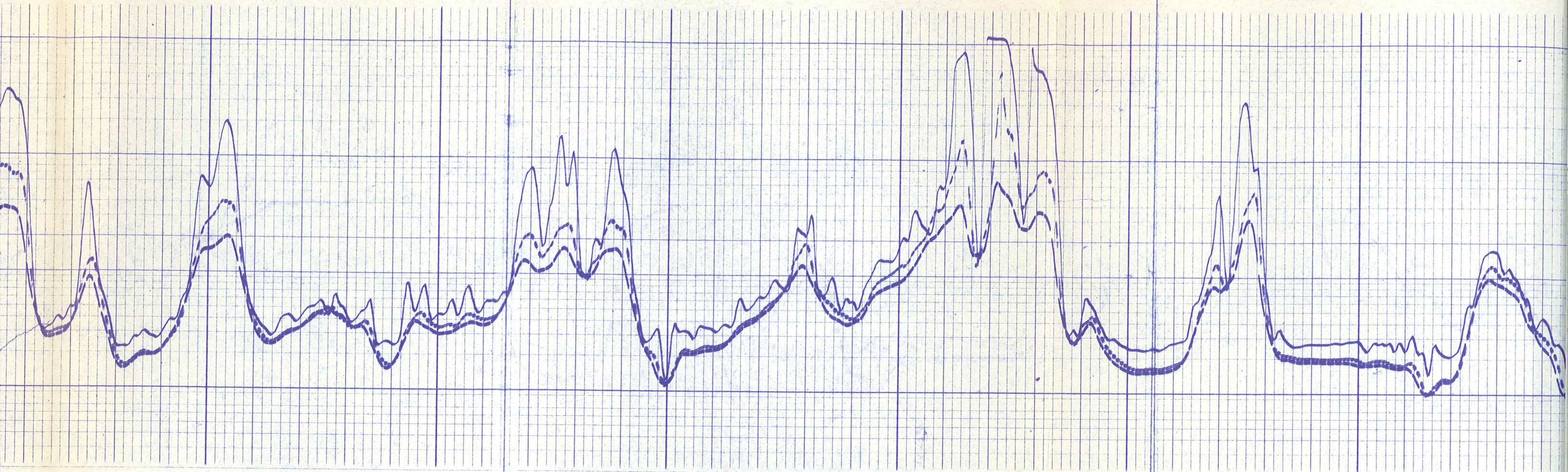
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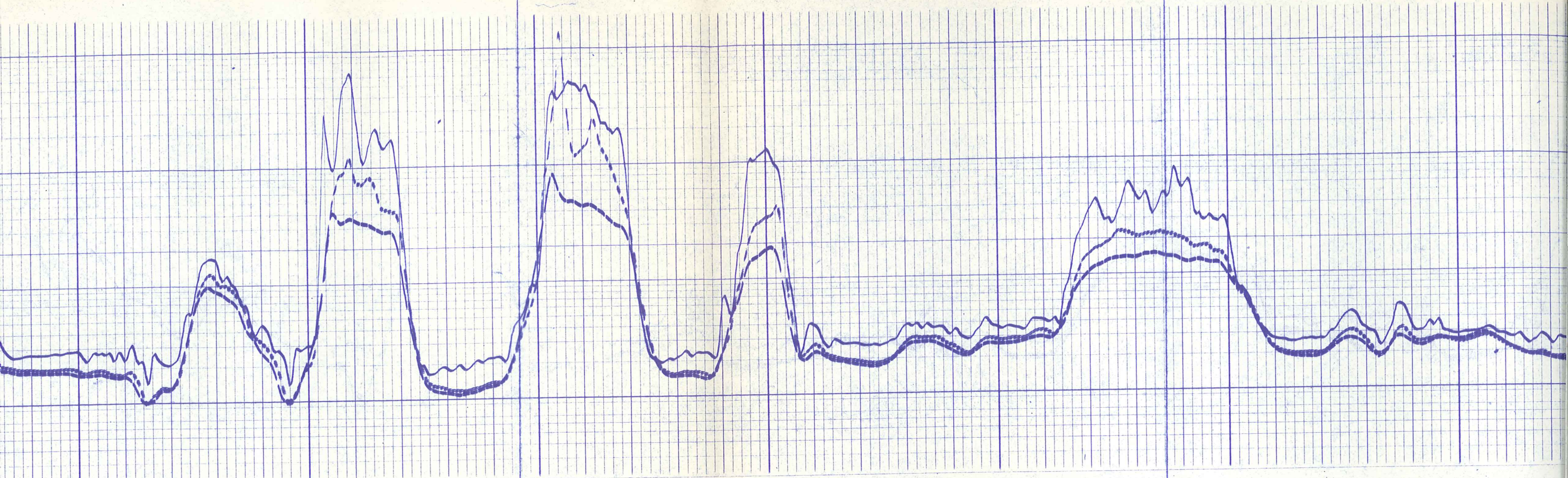


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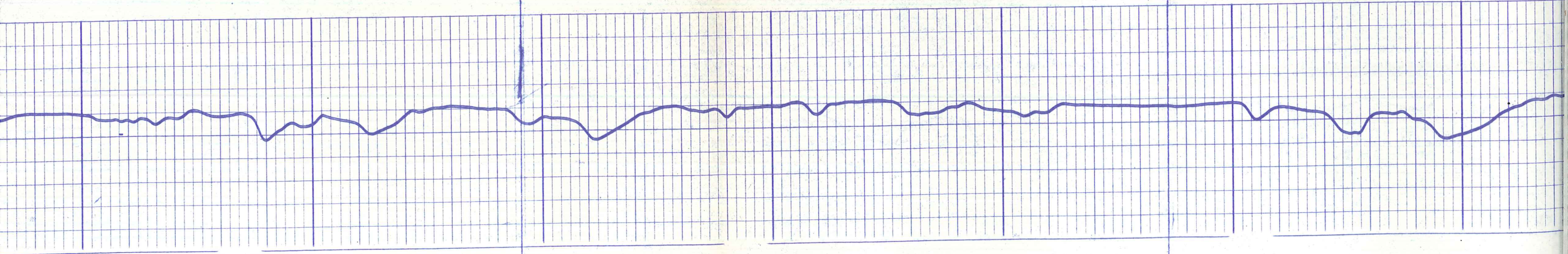


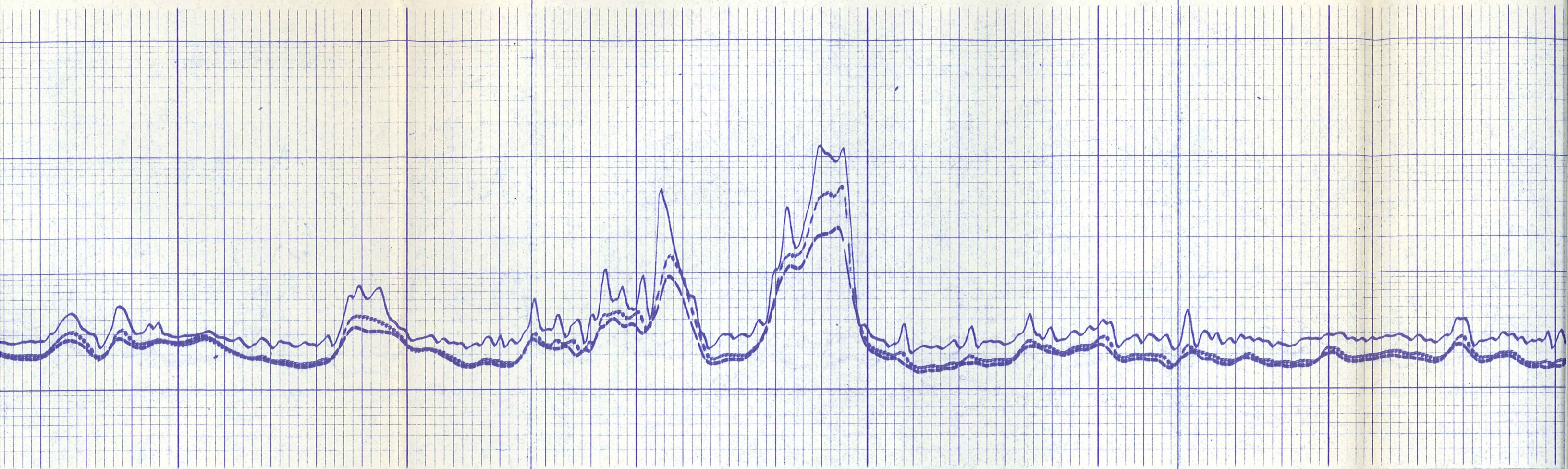


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5900

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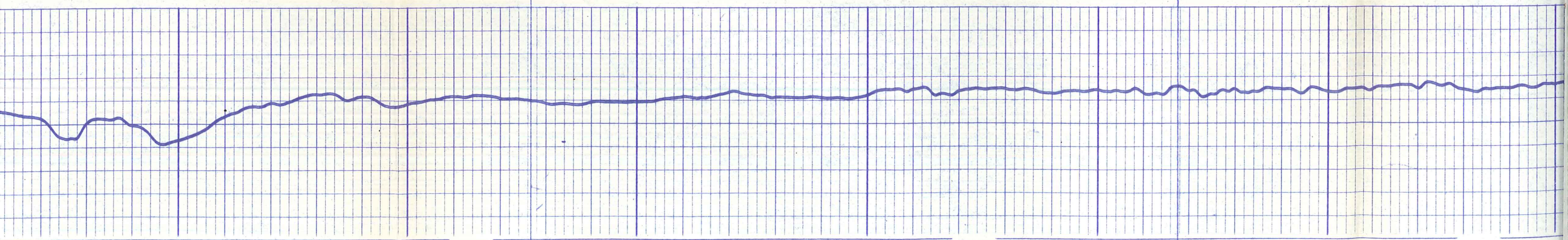


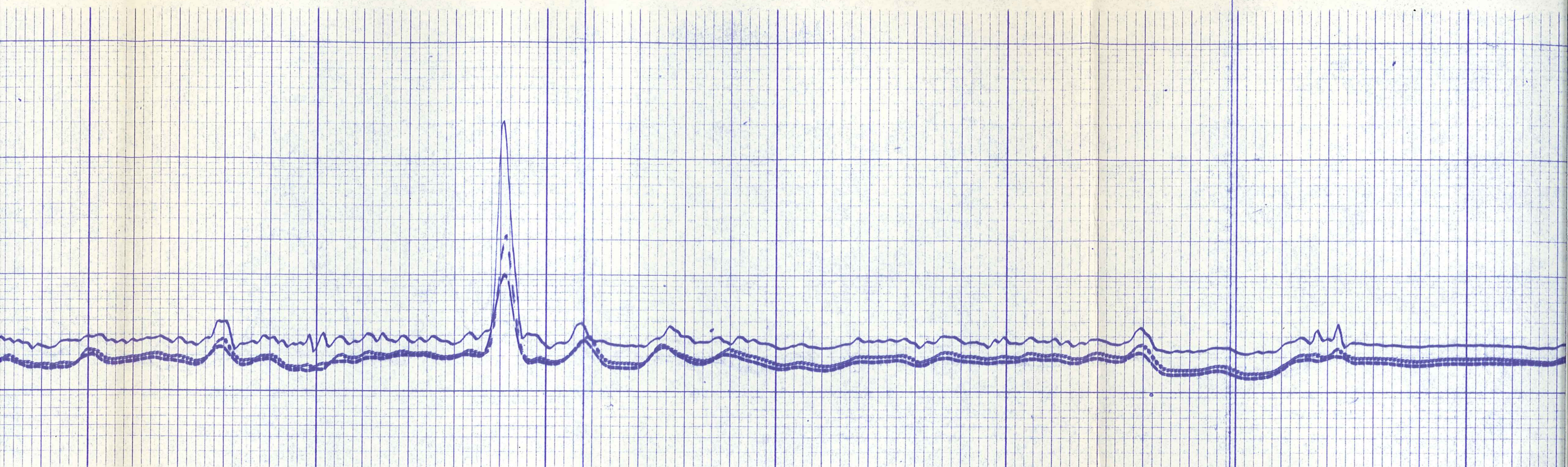


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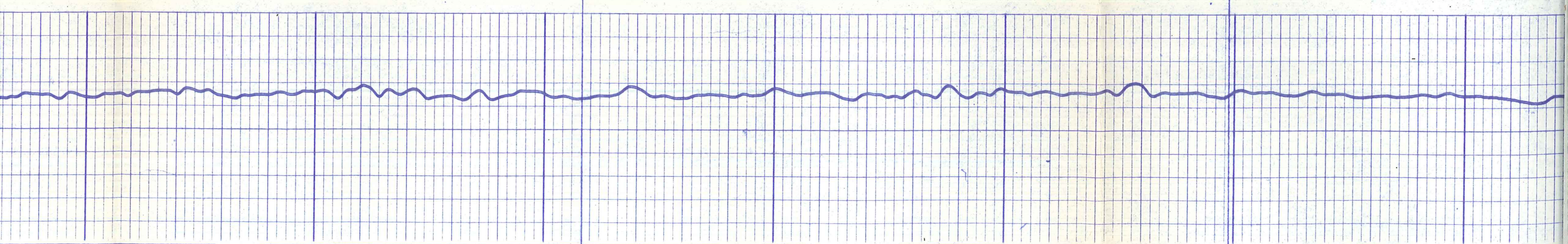


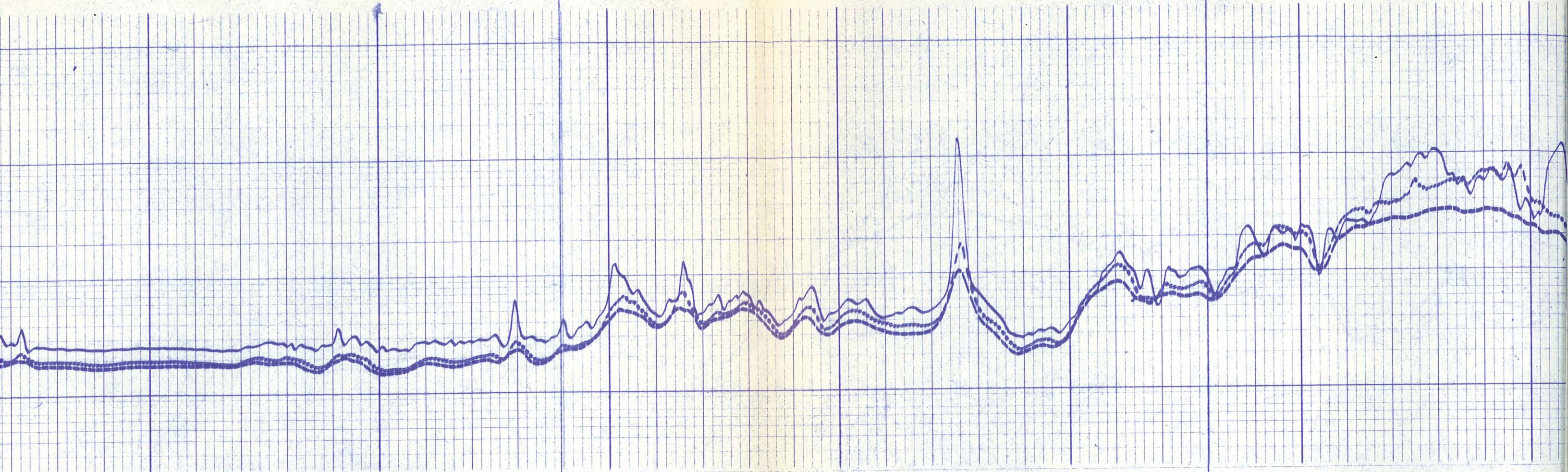
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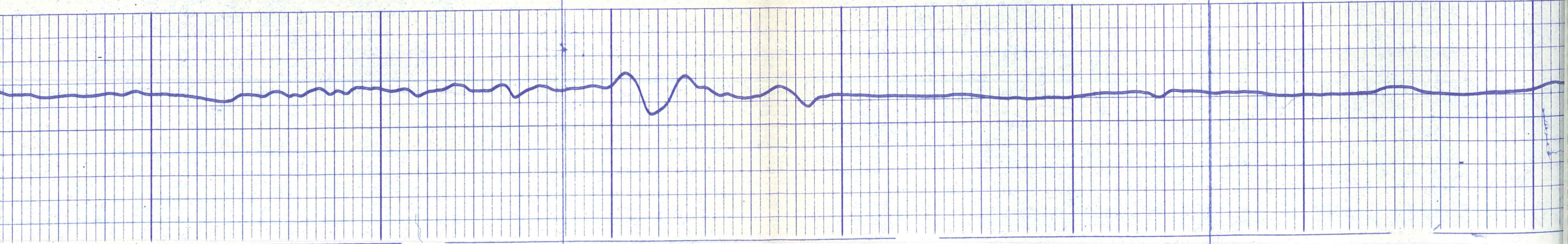


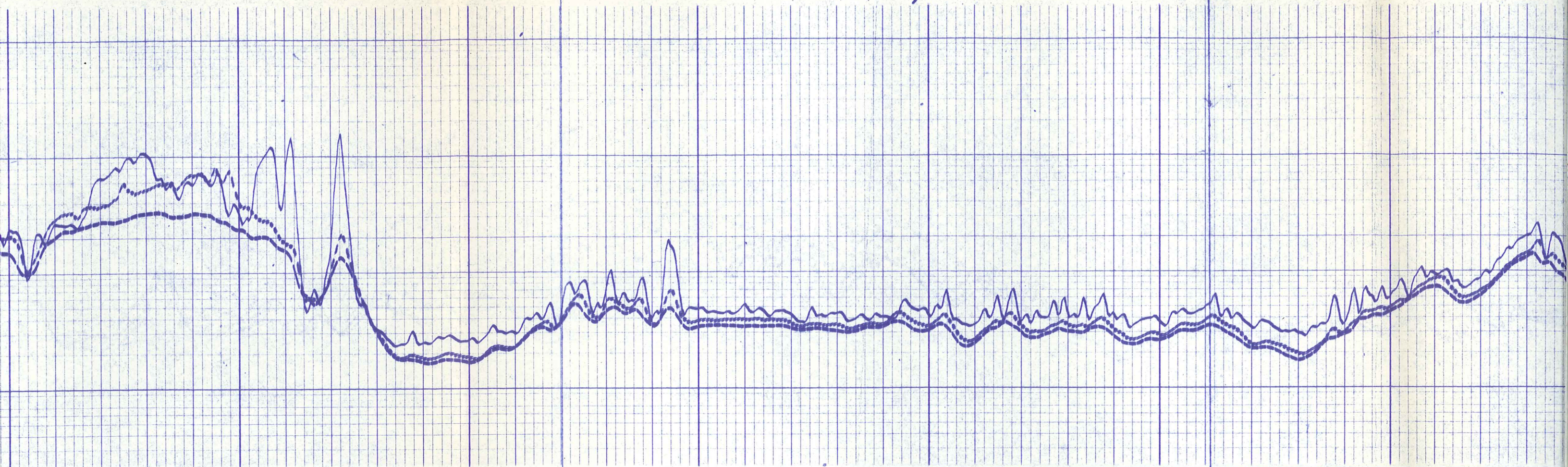
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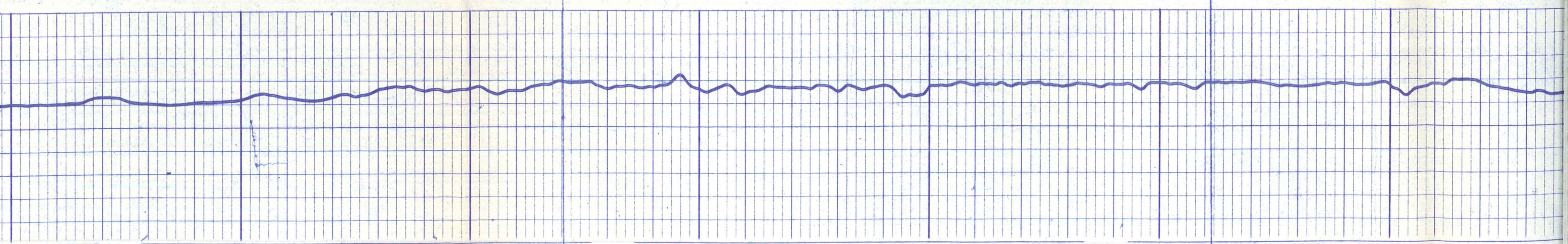


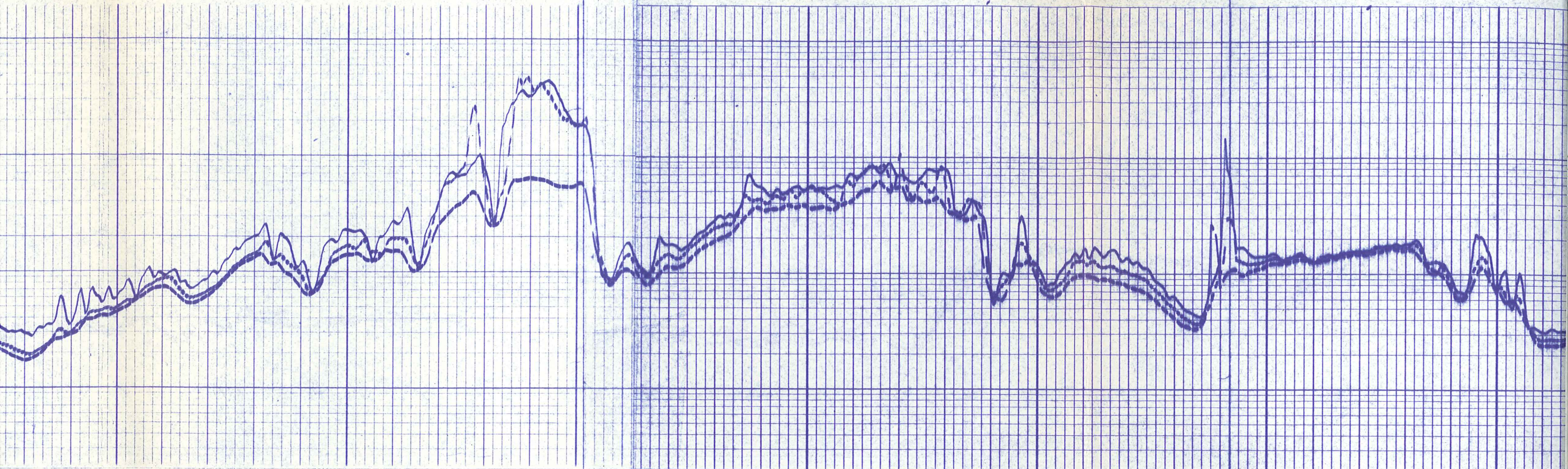


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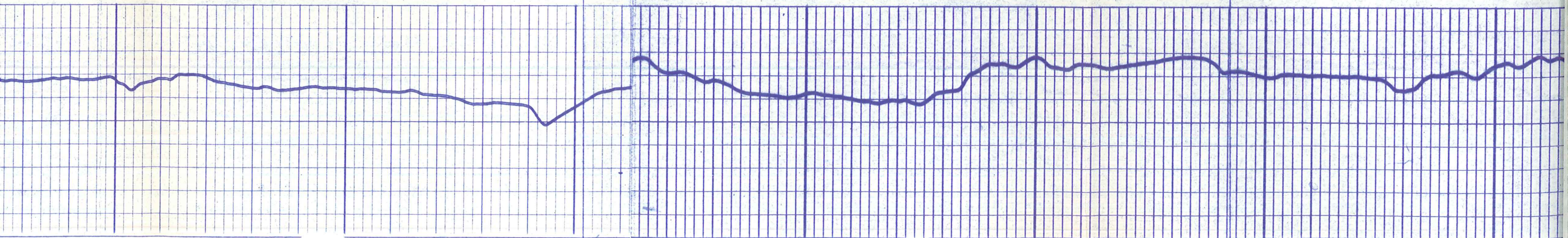


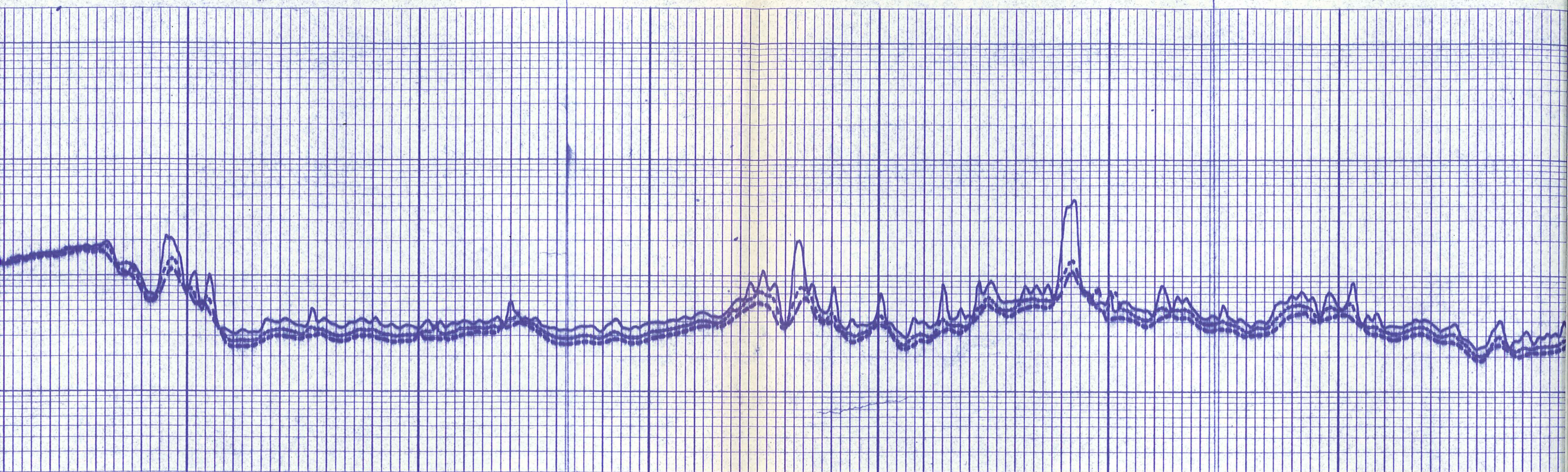


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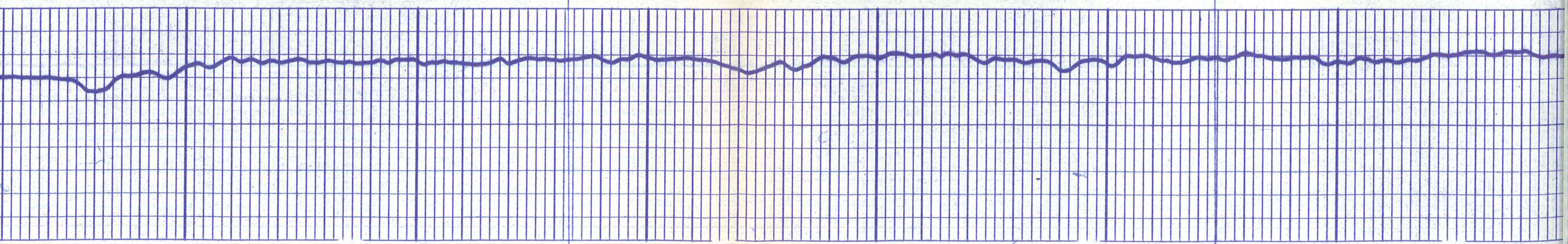


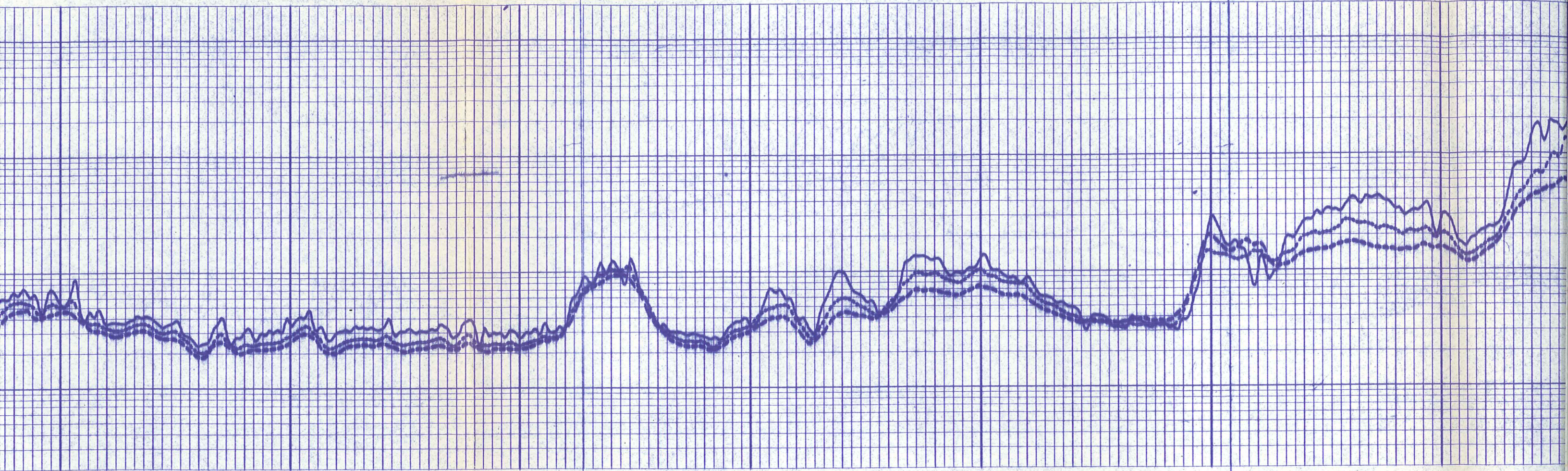


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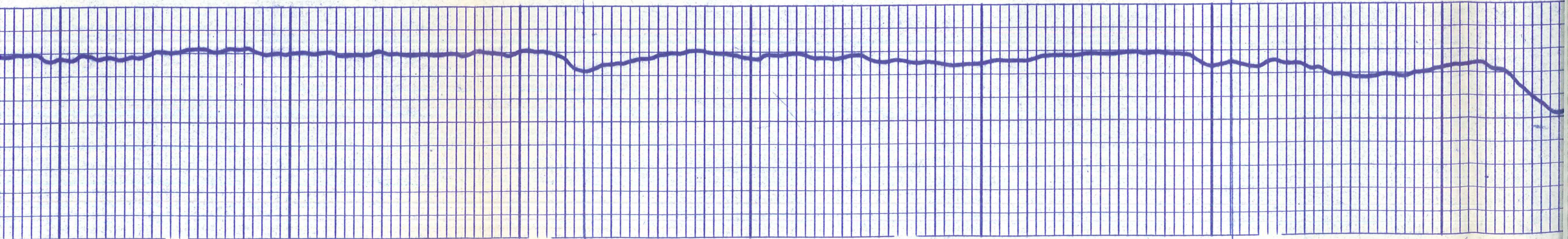


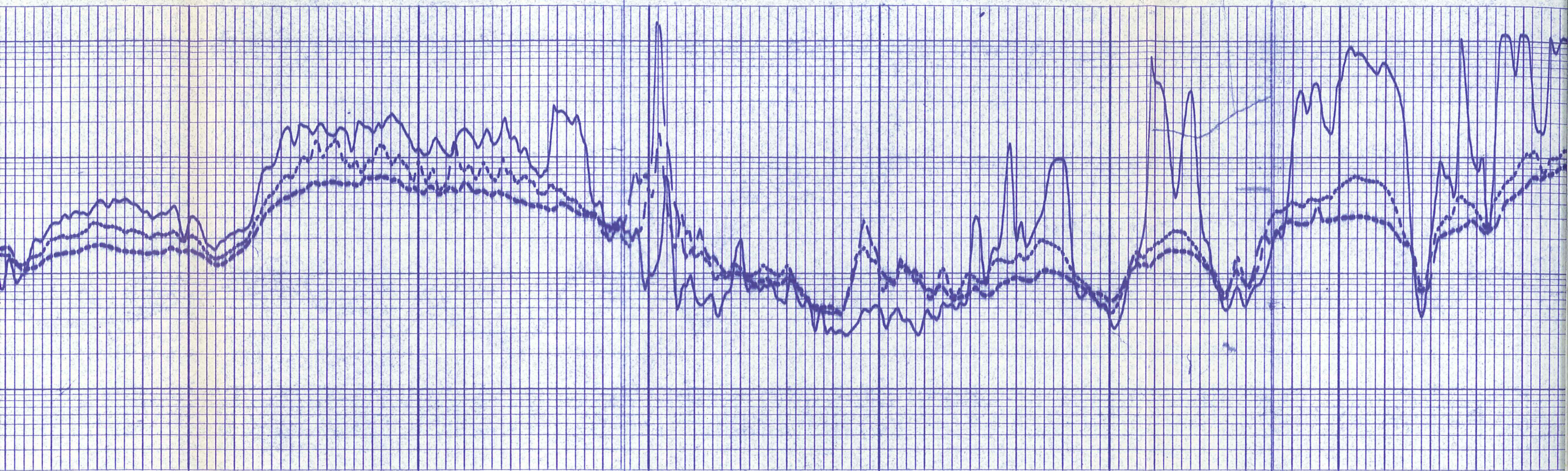
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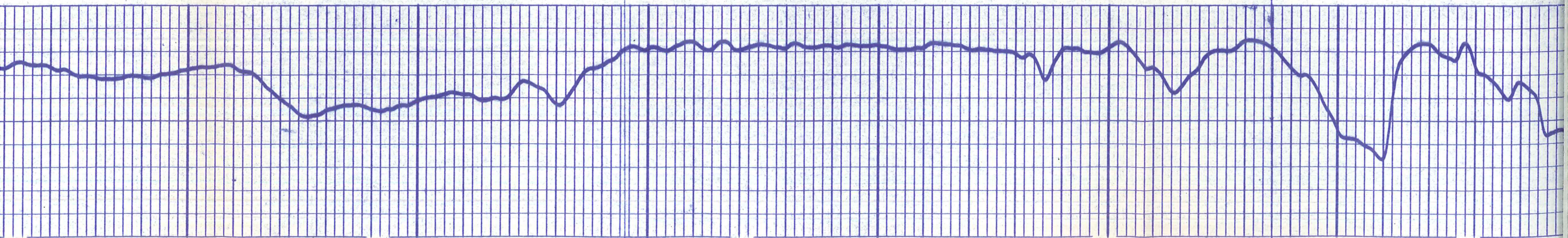


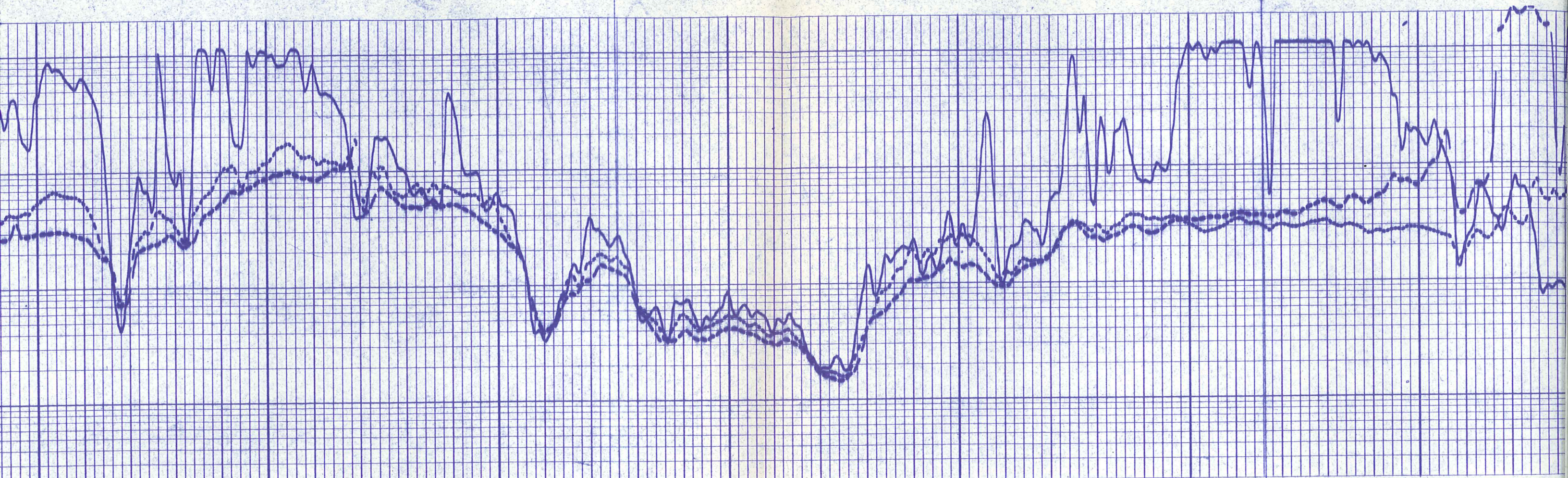
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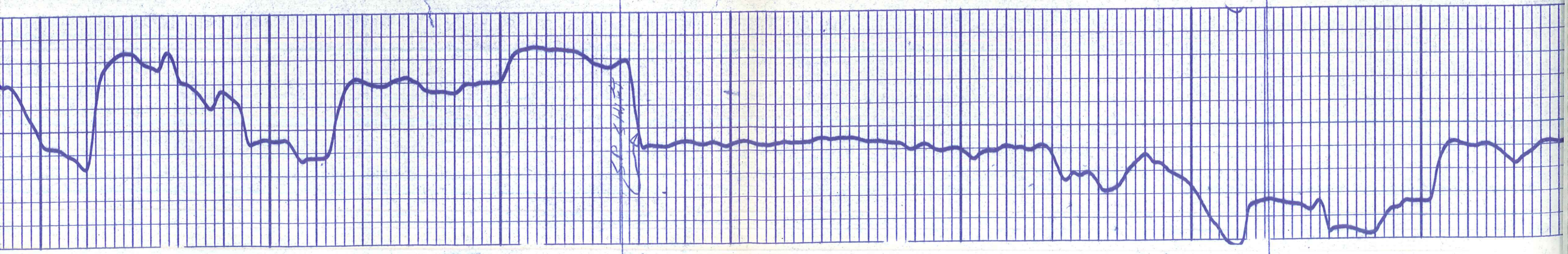




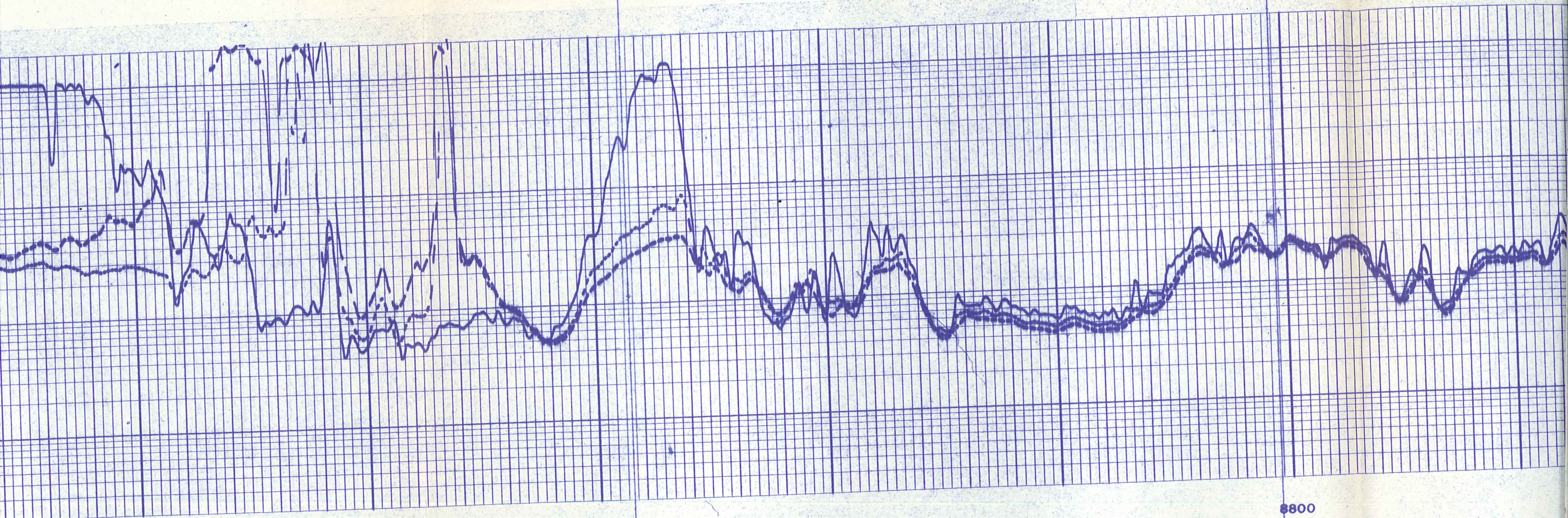
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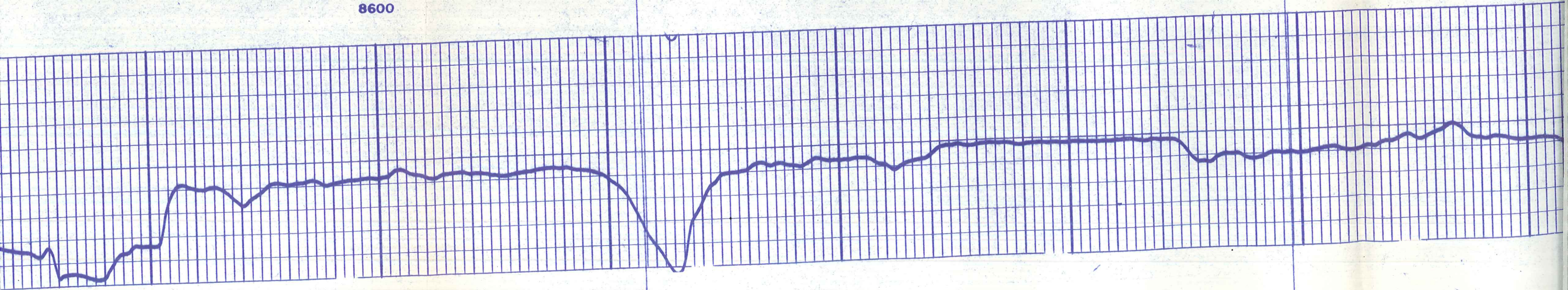
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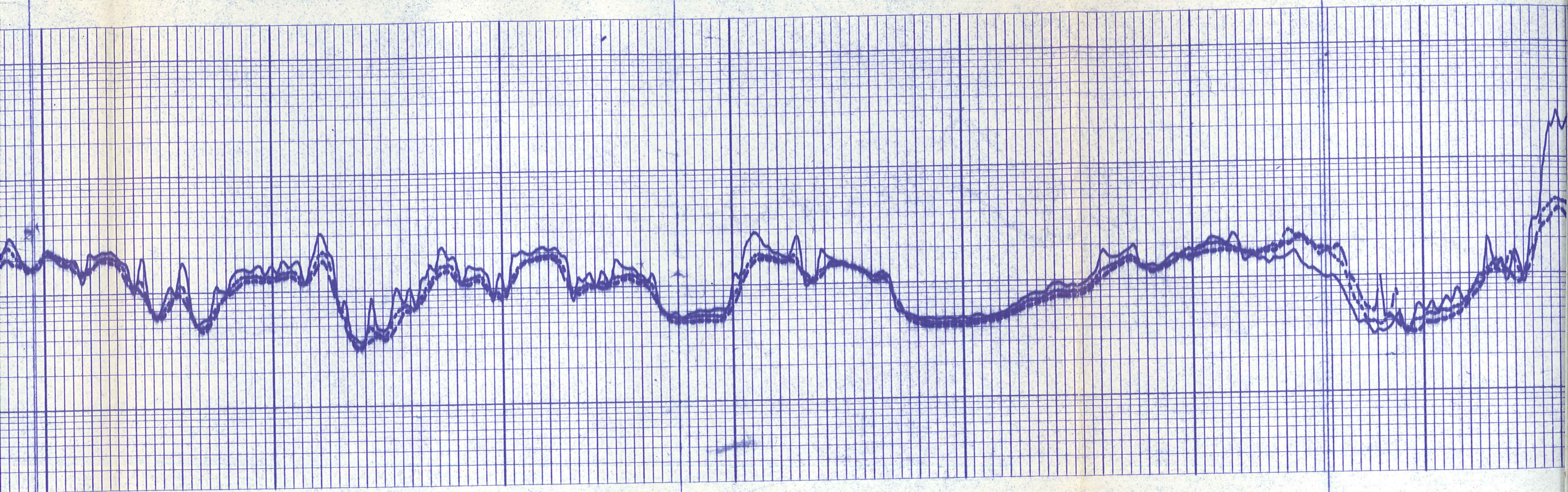


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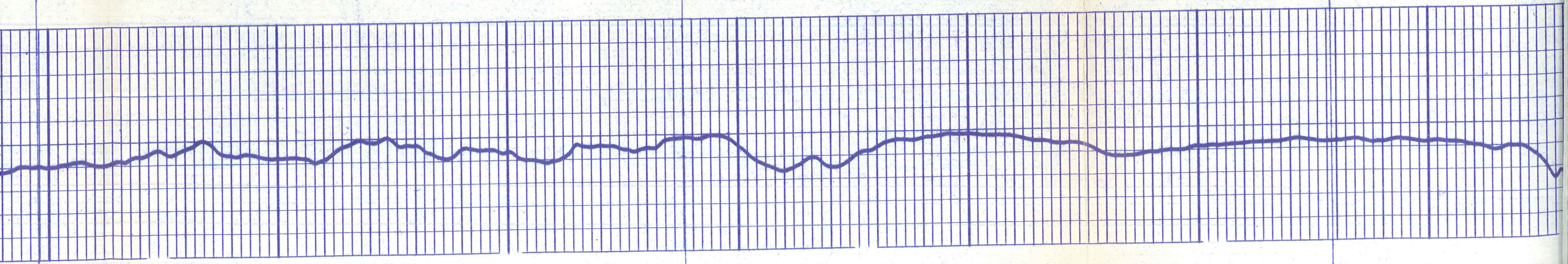


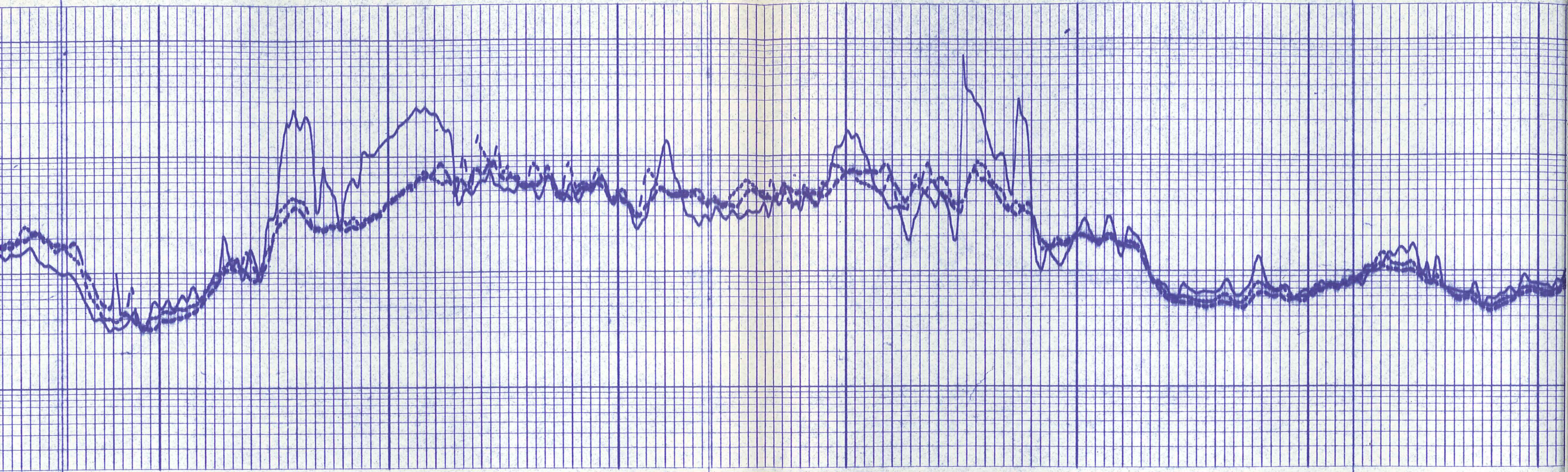
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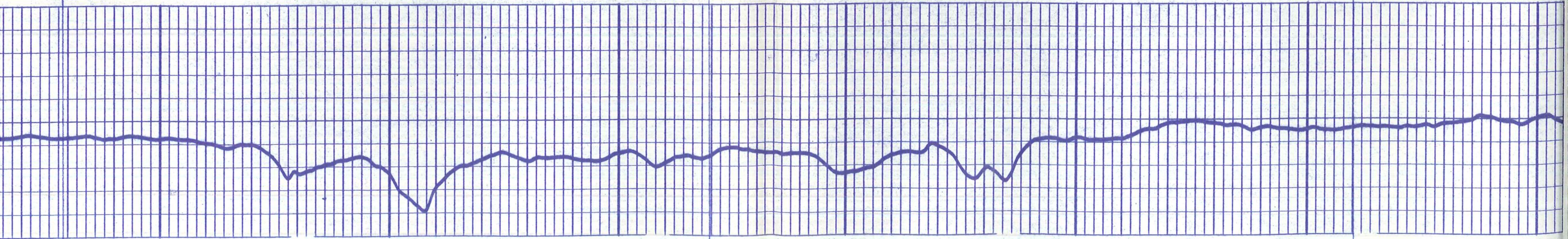


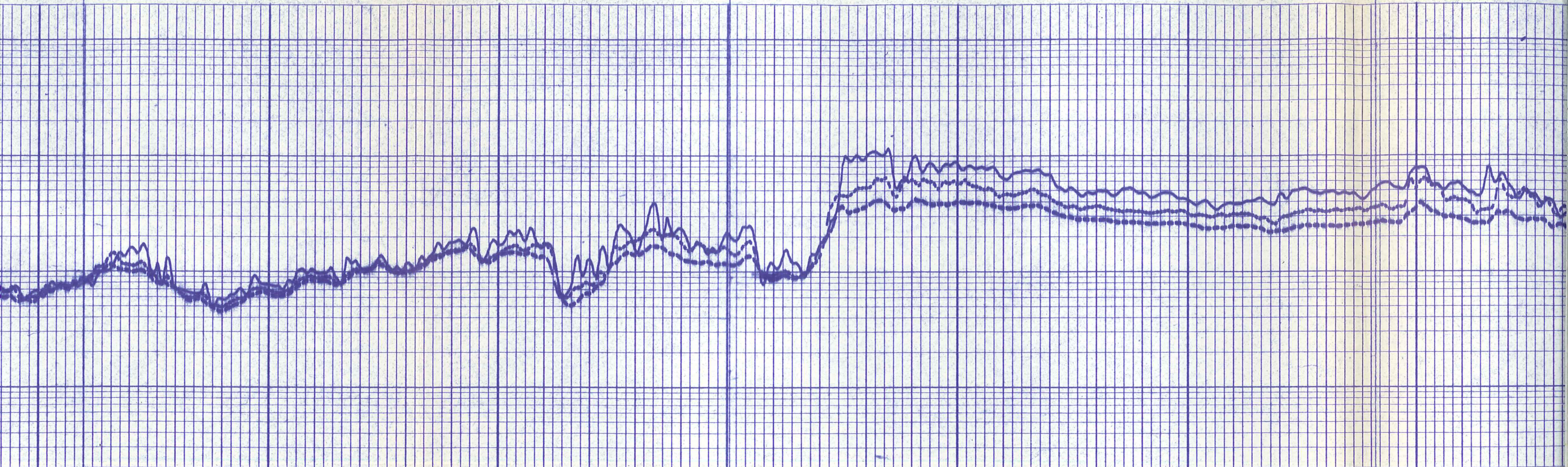
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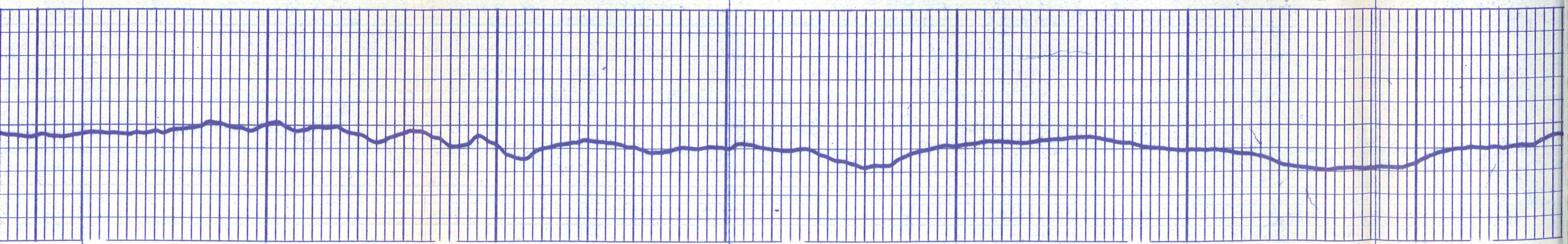


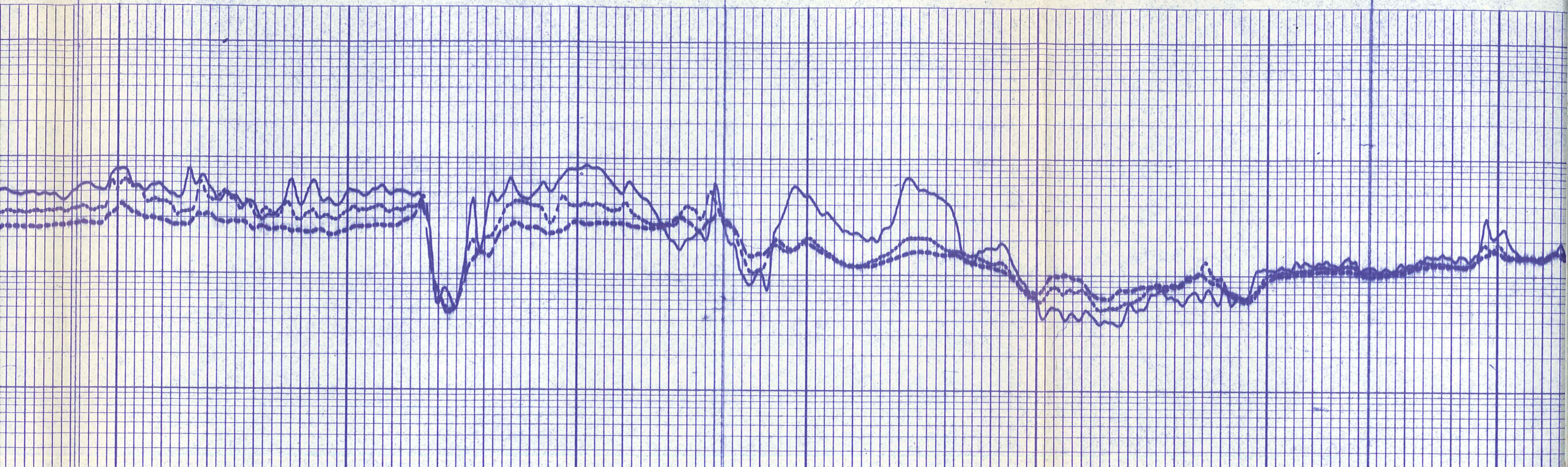


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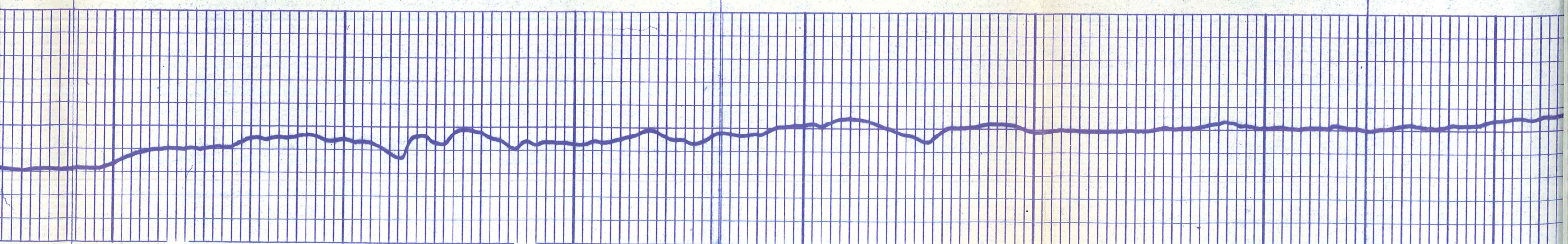


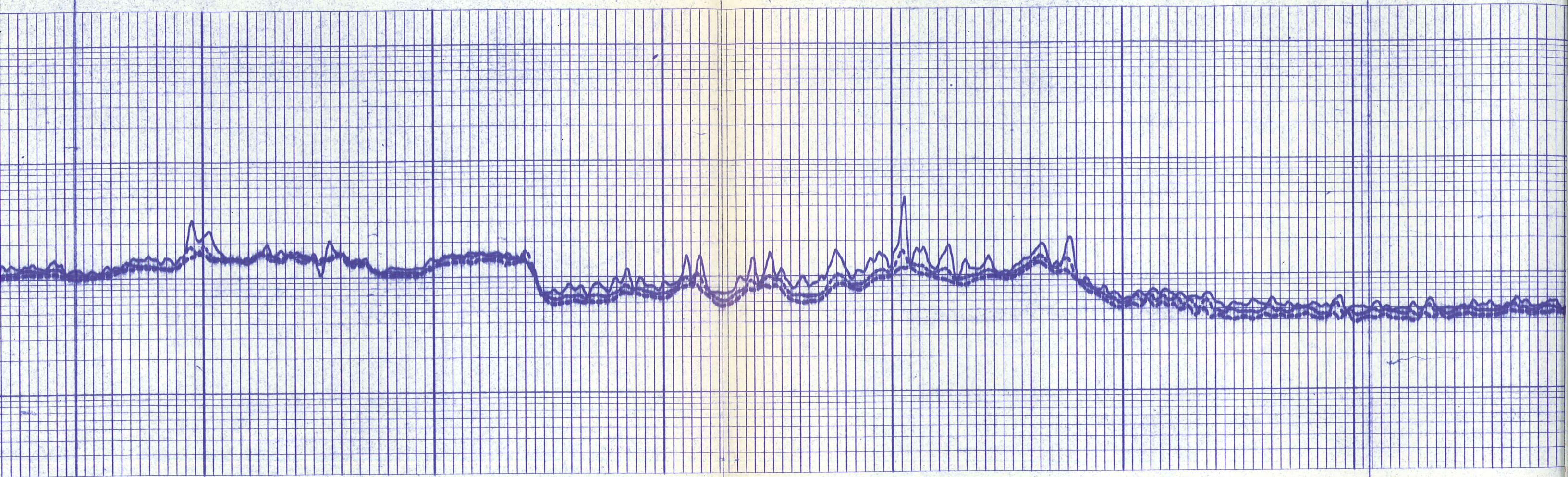


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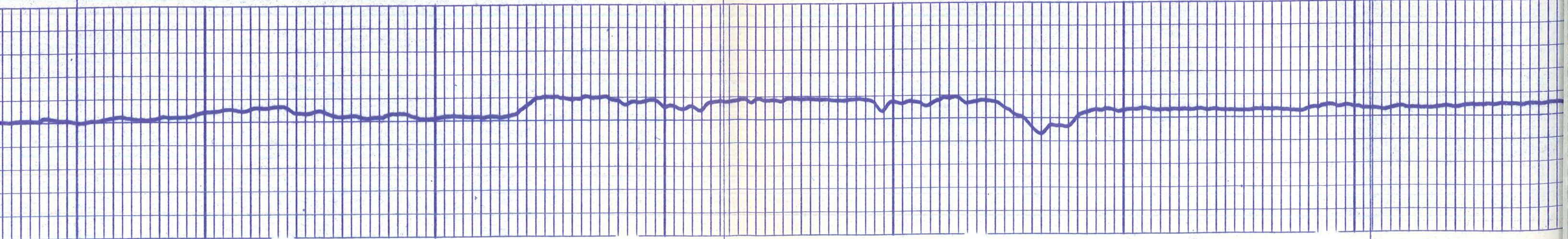


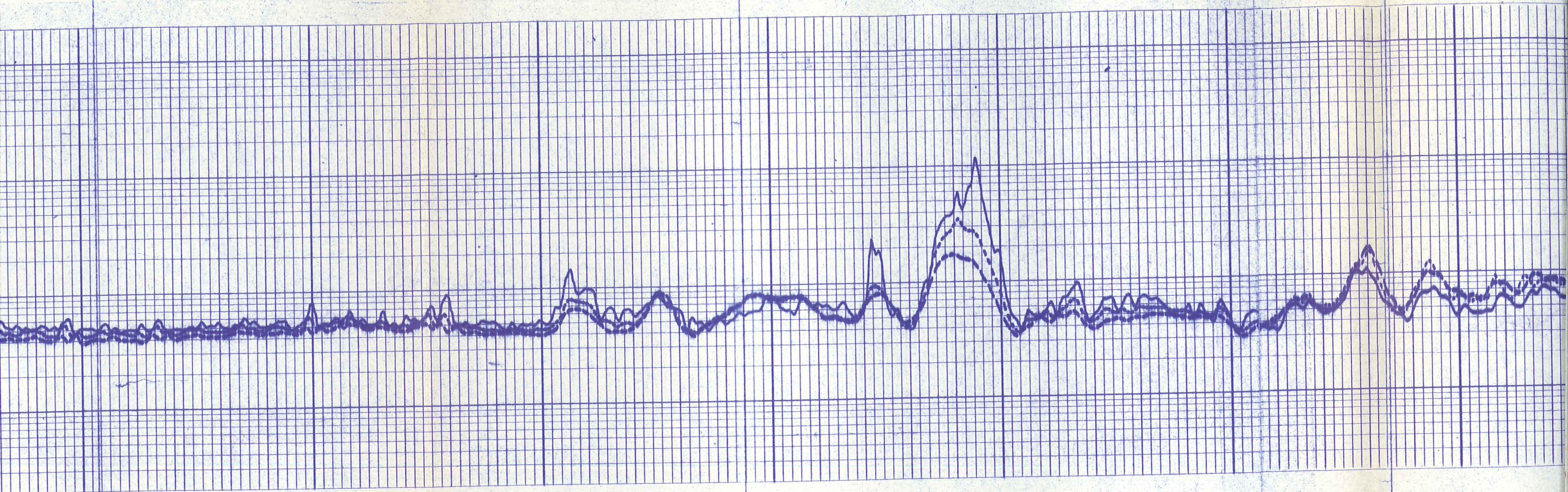


10000

10100

10200



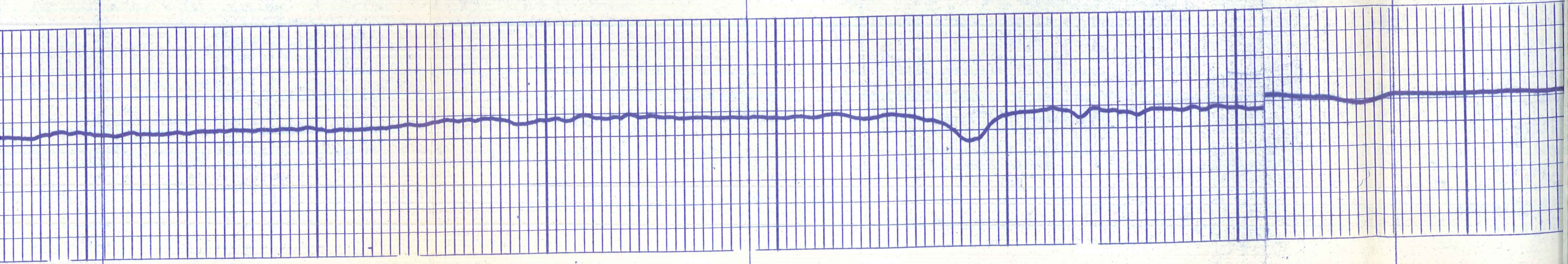


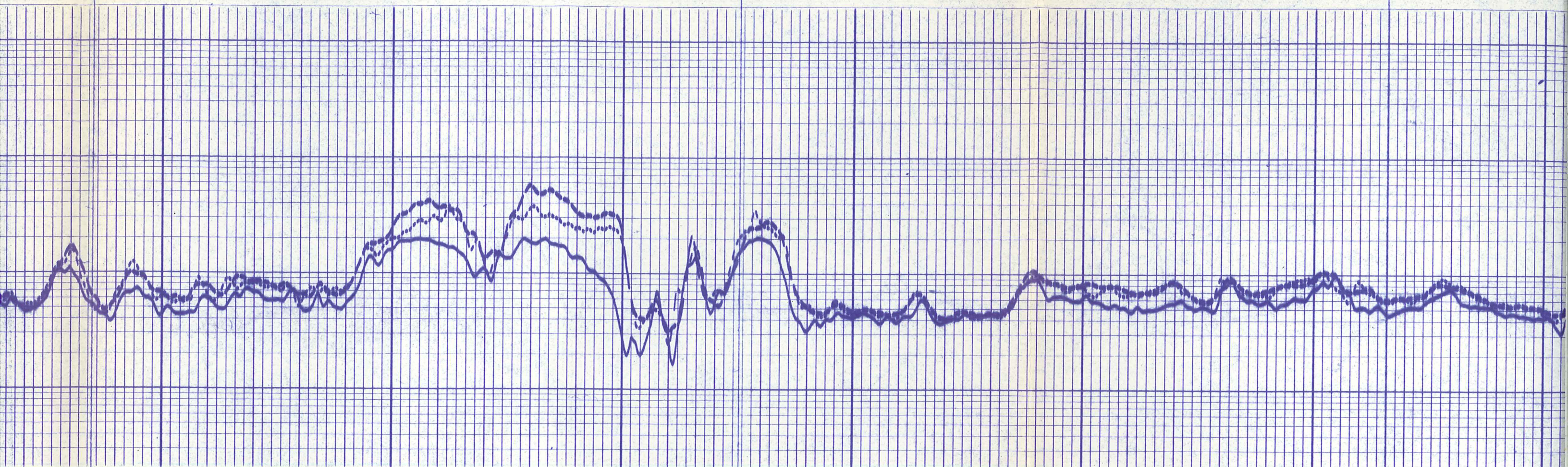
0200

0300

0400

0500



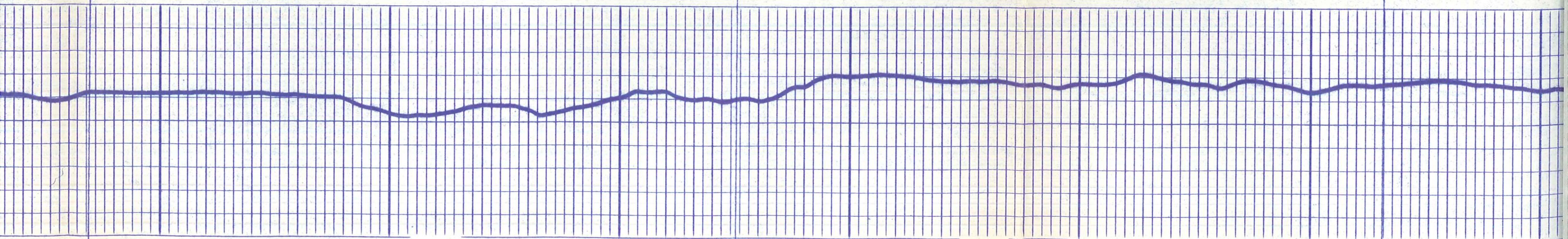


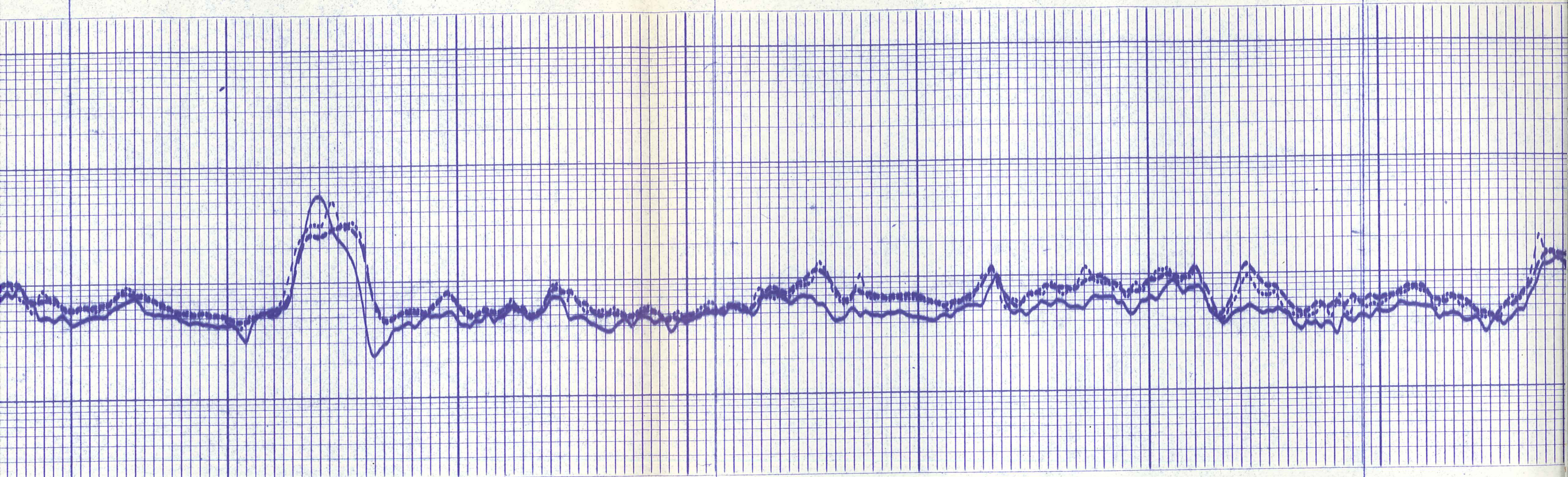
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10600

10700

10800

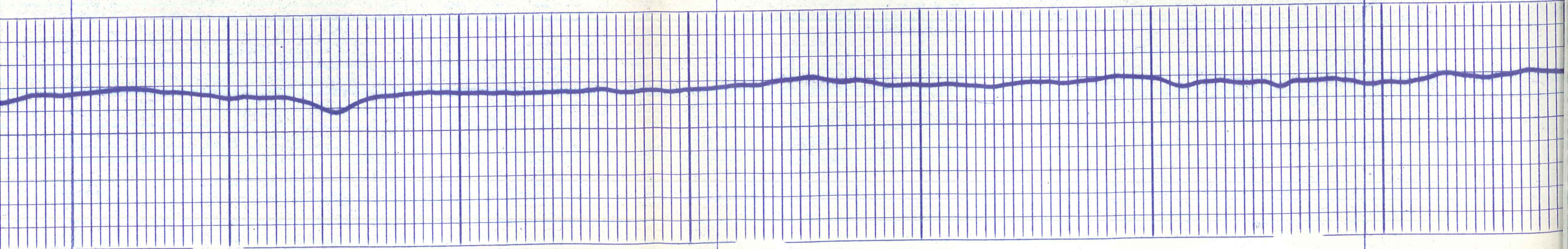


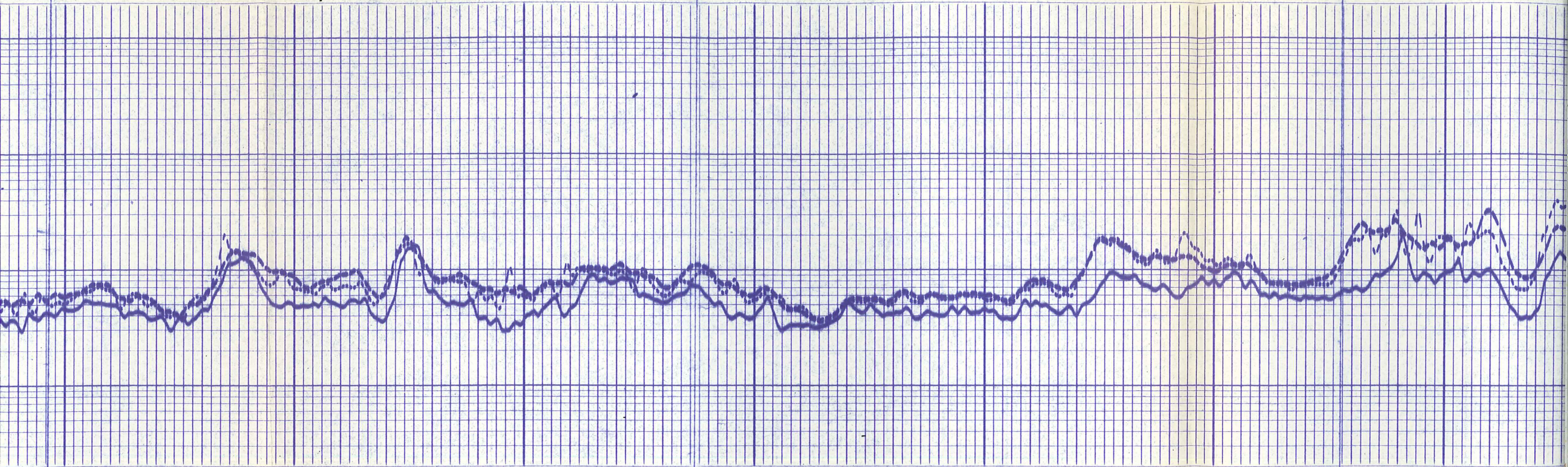


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10900

11000

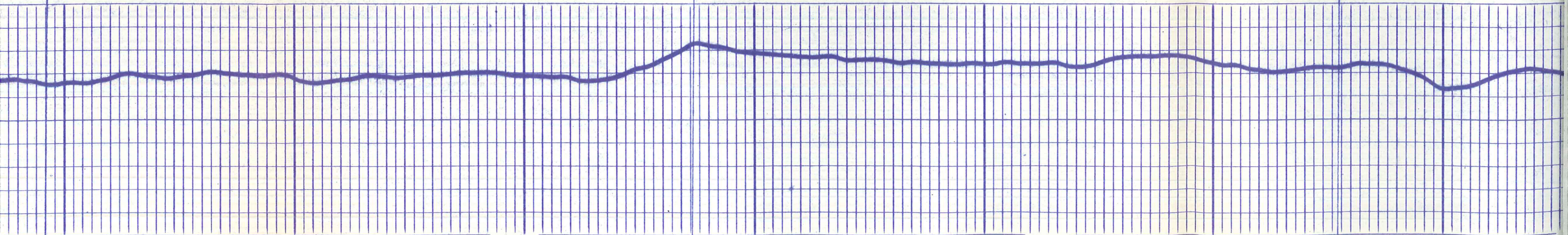


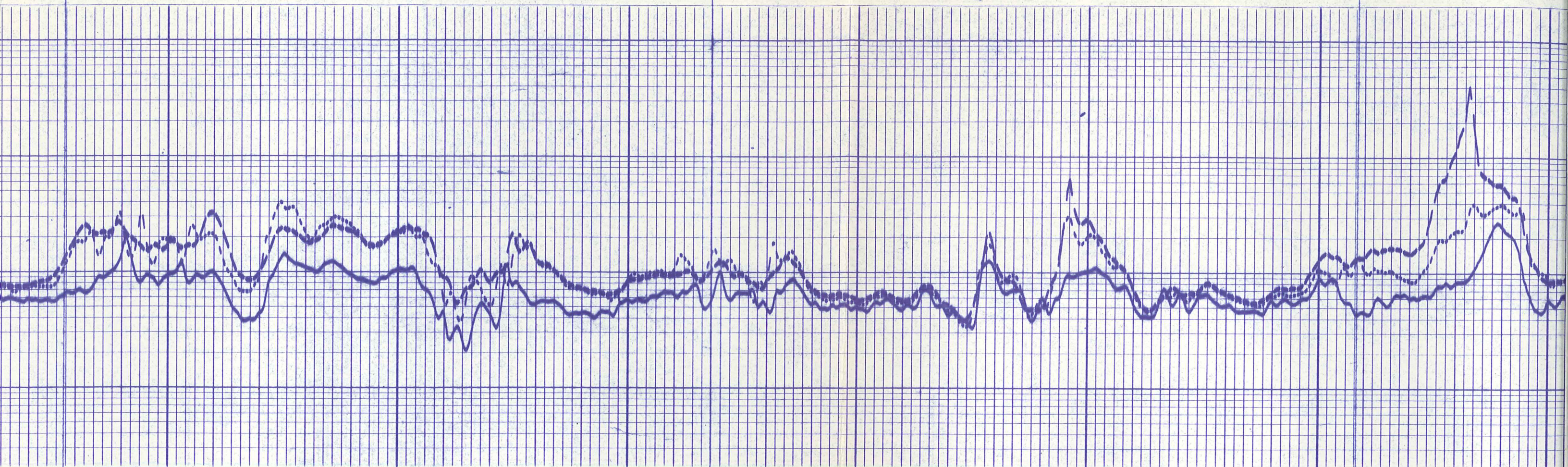


1100

11200

11300

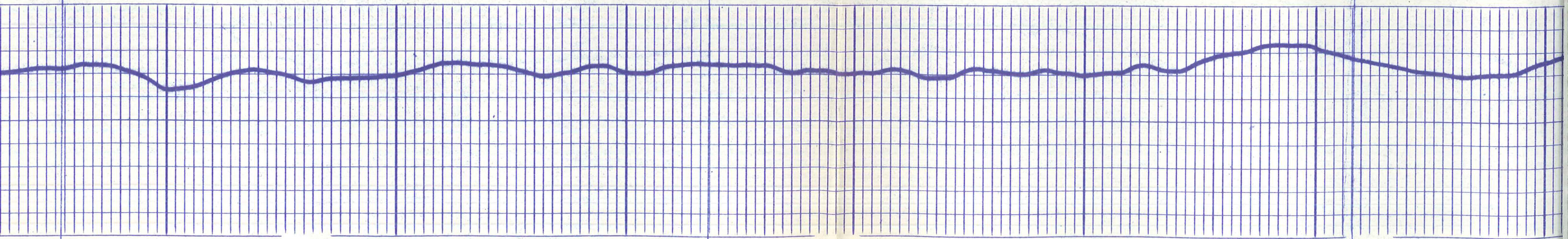


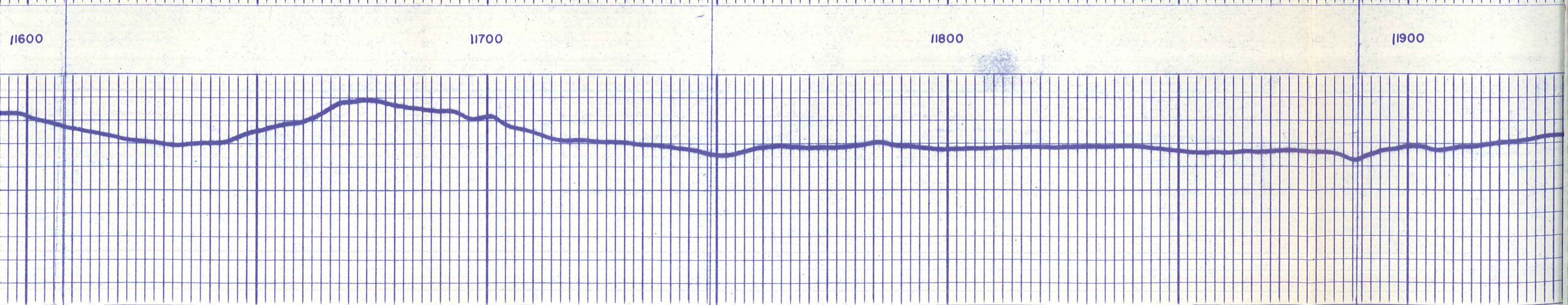
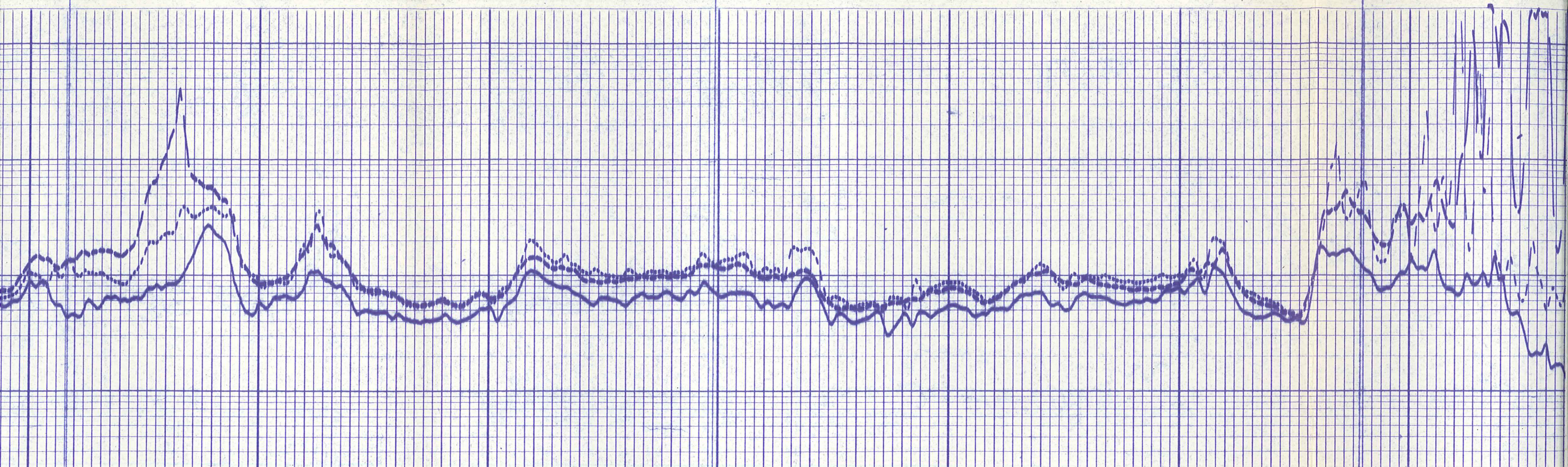


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11500

11600



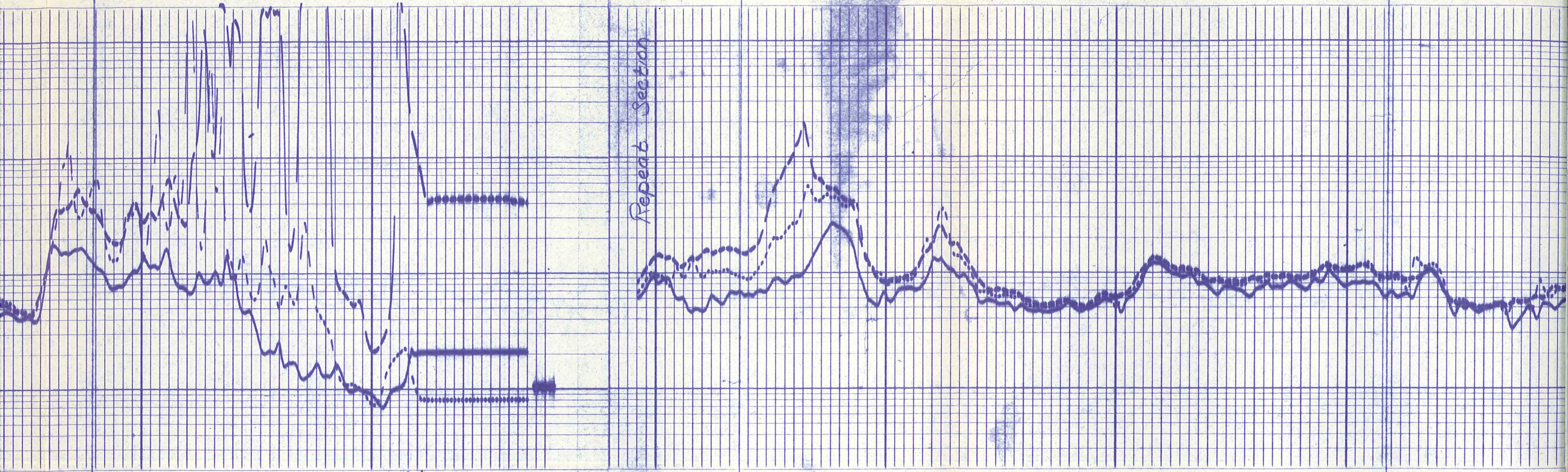


11600

11700

11800

11900

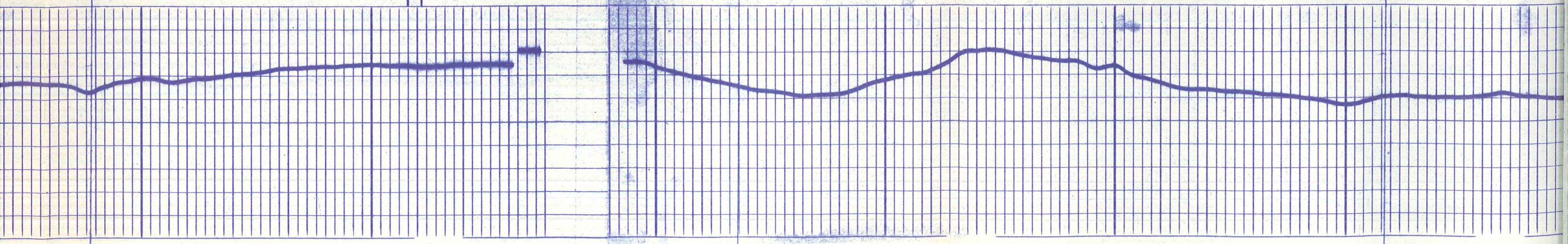


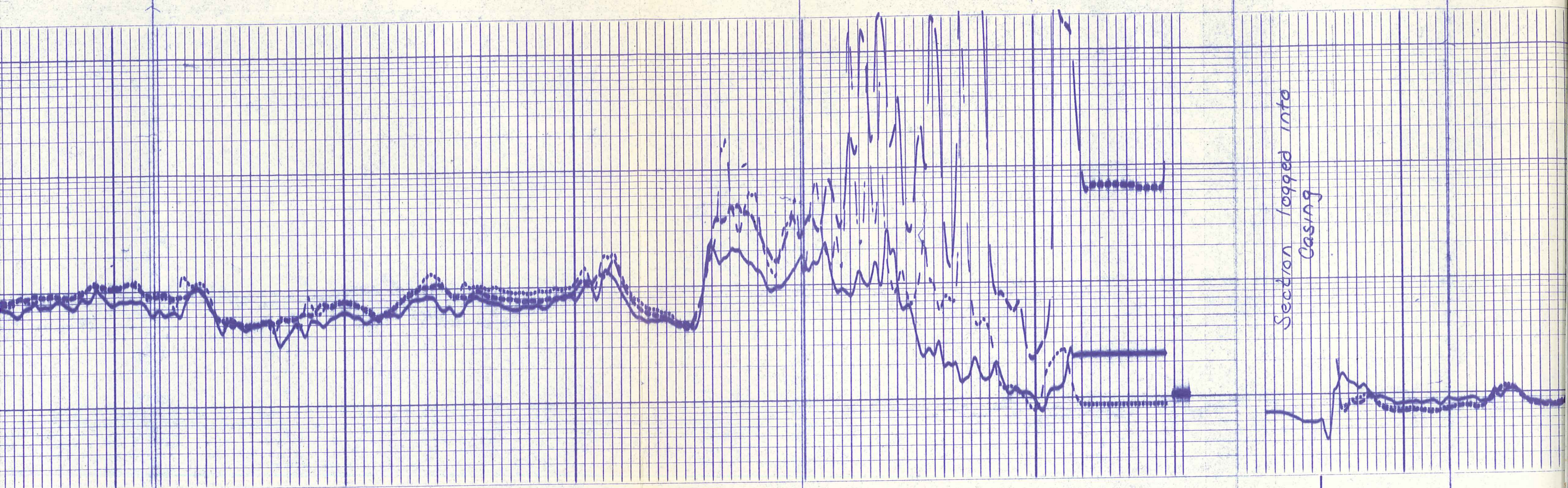
Repeat Section

11900

11600

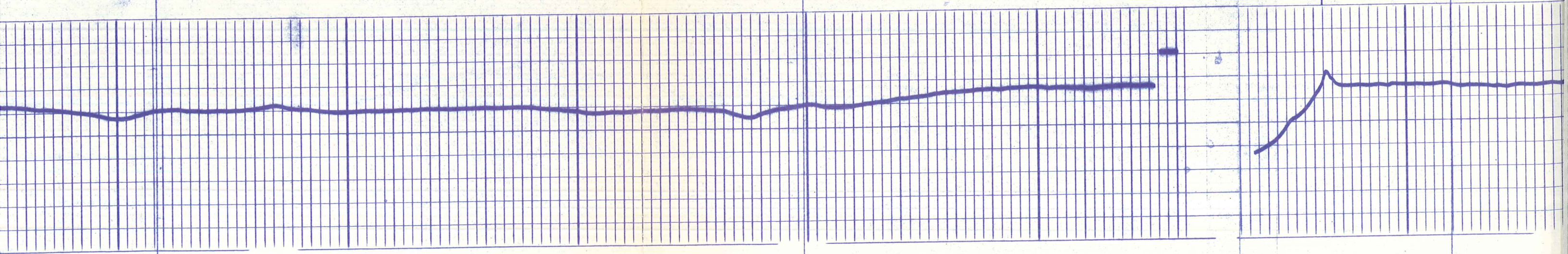
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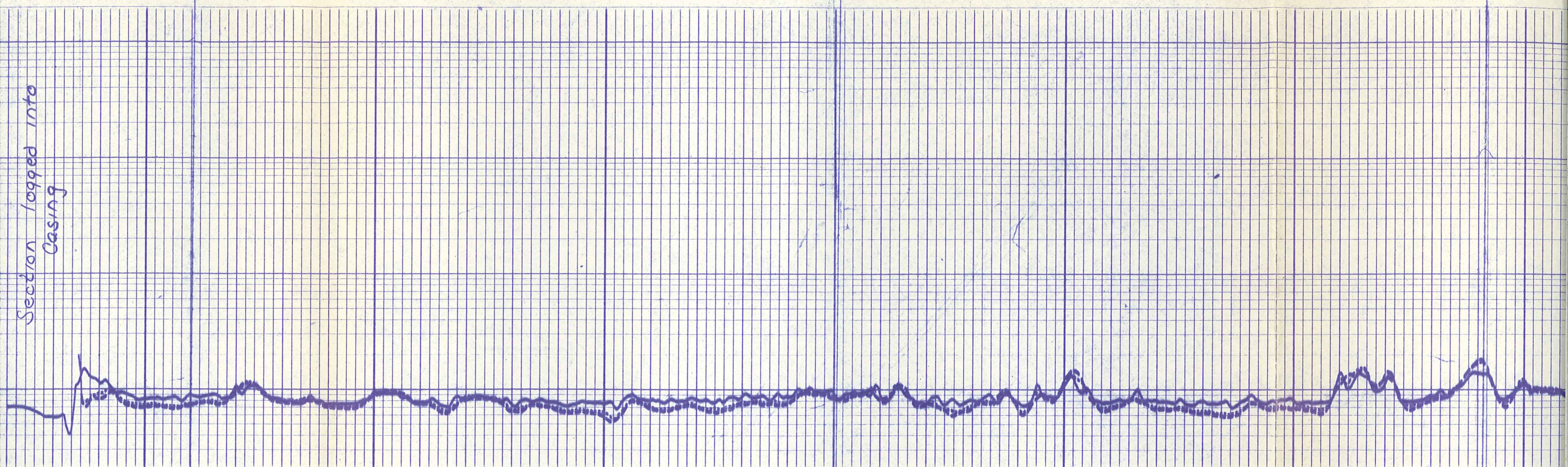


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11900



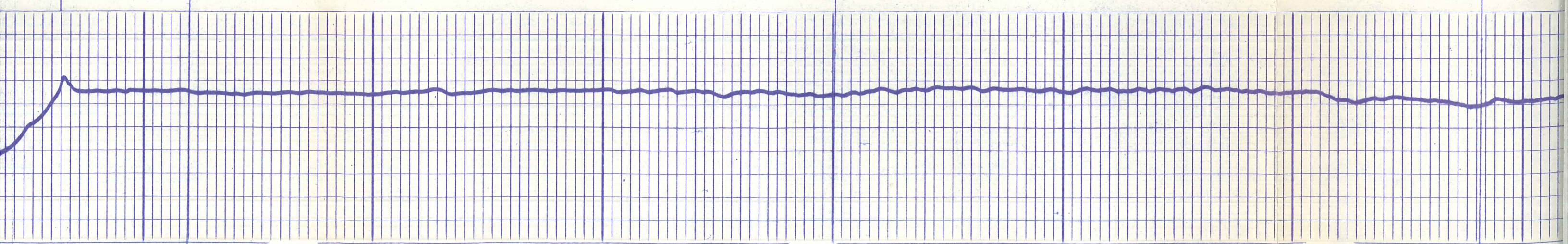
Section logged into
Casing

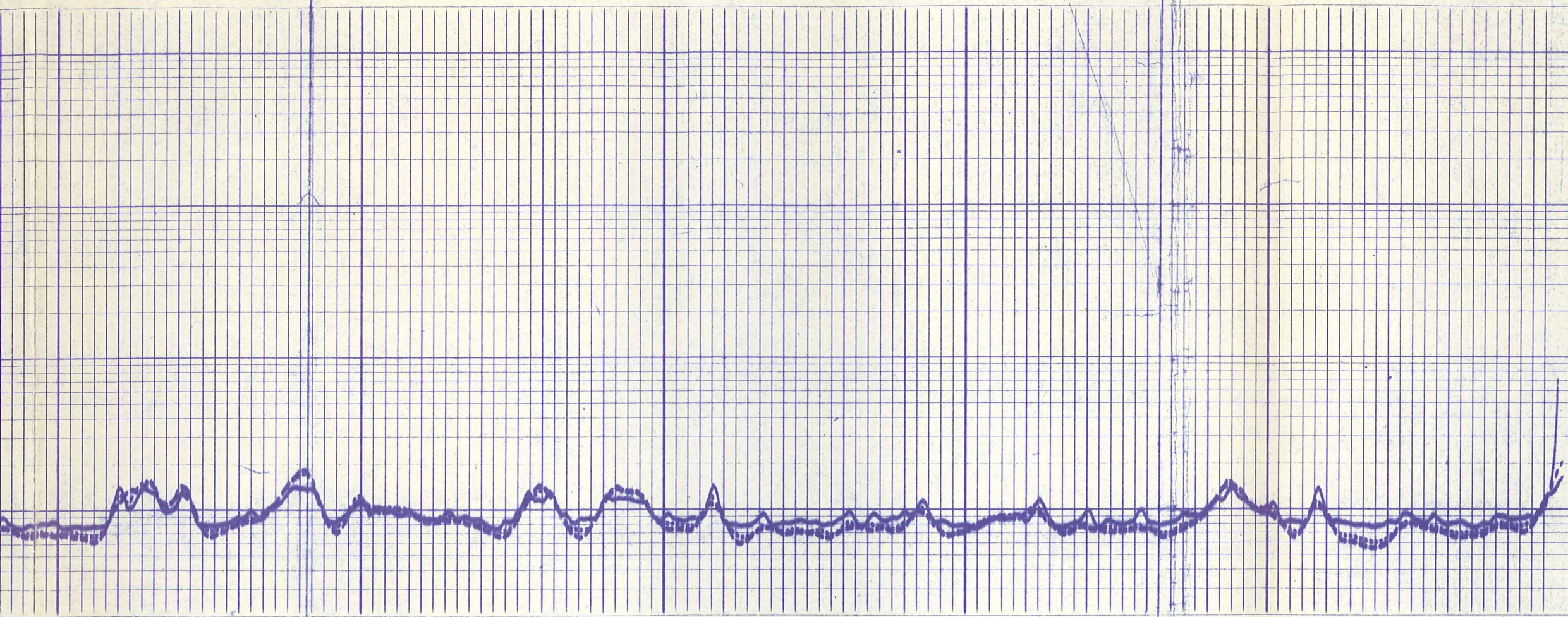


3100

3200

3300





3300

3400

3500

Before Survey Car

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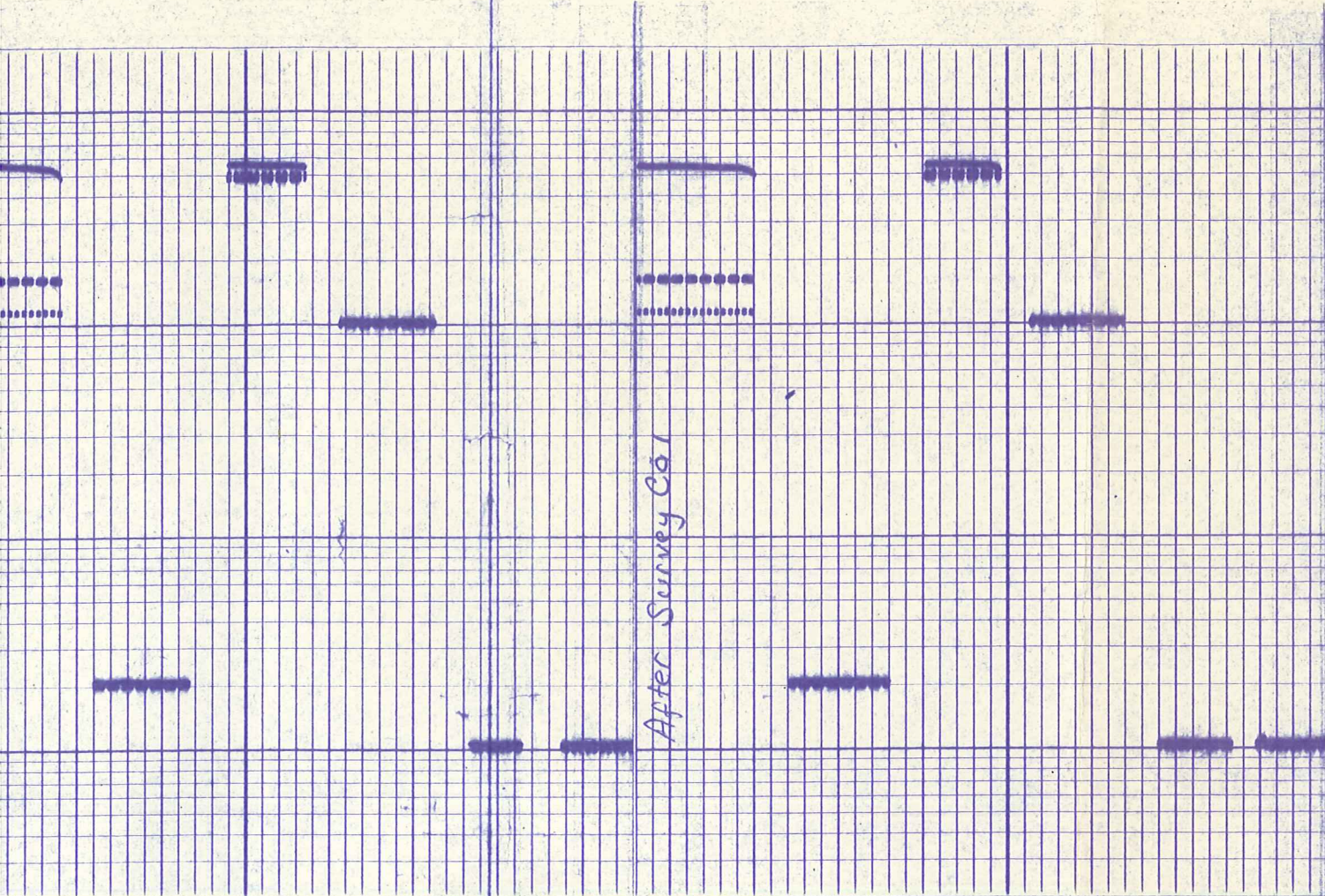
6

5

4

3

2



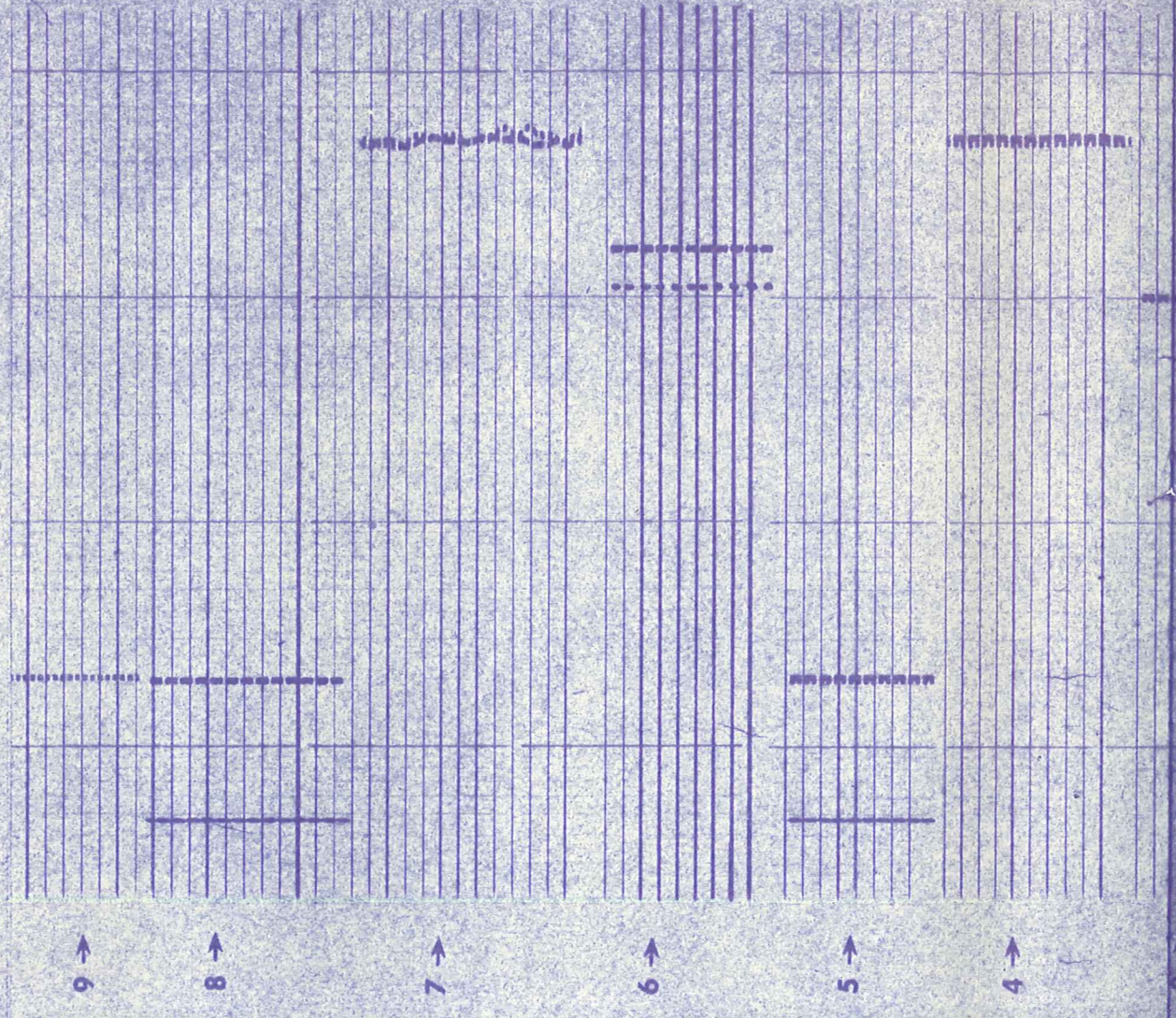
After Survey Cor

5 4 3 2 1 4 5 4 3 2 1

CALIBRATION DATA

DUAL INDUCTION CALIBRATION	
1. MECH. ZERO	6. SONDE ERROR
2. 1 OHM-M	7. CONDUCTIVITY (SURVERY)
3. 100 OHM-M	8. (HOLD SURVEY BUTTON DOWN)
4. ELEC. ZERO (500 OHM-M)	9. ILM TEST LOOP (G7)
5. 2 OHM-M	9. ILM TEST LOOP (G5)

SURFACE CALIBRATION
 APRIL 26, 1975
 DTS-DB-97
 010-B-36



9 8 7 6 5 4

- 6. SONDE ERROR
- 7. CONDUCTIVITY (SURVERY)
(HOLD SURVEY BUTTON DOWN)
- 8. ILM TEST LOOP (G7)
- 9. ILM TEST LOOP (G5)

- 1. MECH. ZERO
- 2. 1 OHM-M
- 3. 100 OHM-M
- 4. ELEC. ZERO (500 OHM-M)
- 5. 2 OHM-M

SURFACE CALIBRATION

APRIL 26, 1973

UTS DB 97
1010 B 36

9 → 8 → 7 → 6 → 5 → 4 → 3 → 2 → 1 →

