

SCHLUMBERGER**INDUCTION ELECTRICAL LOG**

SCHLUMBERGER OF CANADA Calgary, Alberta

PROVINCE YUKON TERRITORY

FIELD WILDCAT

WELL CANADA SOUTHERN ET AL

N BEAVER R YT-1-27

COMPANY CANADA SOUTHERN
PETROLEUM LIMITED

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YT-1-27

FIELD WILDCAT

PROVINCE YUKON TERRITORY

LOCATION GRID 124° 0'; 60° 10'
NE CORNER SEC-27 UNIT 1

Other Services:

IES

Permanent Datum GL Elev. 1430.0
Log Measured From KB 16.1 Ft. Above Perm. DatumELEV: KB 1446.1
GL 1430.0
CBF

Date	3DEC63	26DEC63	3MAR64	18MAR64
Run No.	TWO	THREE	FOUR	FIVE
First reading	11539	12206	12946	14078
Last reading	8099	11539	12155	12156
Feet measured	3440	667	791	1922
Depth reached	11540	12207	12947	14079
Bottom Driller	11537	12201	12935	14059
Csg. SOC	8099	-	12155	12156
Csg. Driller	8099	-	12154	12151
Mud Nature	GEL - CHEM	* GEL - CHEM	GEL - CHEM	GEL - CHEM
Dens.	140	132	11.6	9.8
Visc.	122	132	55	47
Mud pH	10.0	9.5	9.5	9.5
" Water Loss	1.8	1.0	1.6	2.0
" Res.	*RMKS @ F	1.48 @ 61 F	0.80 @ 62 F	0.60 @ 62
" " @ BHT	@ F	0.34 @ 274 F	0.15 @ 322 F	@ 340
" Rmf	0.68 @ 56 F	0.820 @ 63 F	0.47 @ 60 F	0.48 @ 66
" Rmc	1.69 @ 56 F	1.23 @ 63 F	1.41 @ 60 F	1.23 @ 68
Bit Size	8 3/8"	8 3/8"	5 7/8"	5 7/8"
Spacing - AM	16"	16"	16"	16"
" - MN	34' 6"	34' 6"	34' 6"	34' 6"
Ind. Type	6FF40	6FF40	6FF40	6FF40
Opr. Rig Time	7 HRS	2 HRS	6 HRS	4.5 HRS
Truck No.	2547 - DC	2547 - DC	3704 - DC	3703 - DC
Recorded By	CHENOSKY	CHENOSKY	HAMILTON	HAMILTON
Witness	WRIGHT	WRIGHT	WRIGHT	WRIGHT

R64	27MAR64
F	SIX
8	14498
6	13876
2	620
9	14507
9	14495
6	12156
1	12151
CHEM	GEL - CHEM
47	9.9 48
5	9.5
0	1.2
@ 62 °F	.89 @ 54 °F
@ 340 °F	.14 @ 354 °F
@ 66 °F	.43 @ 63 °F
@ 68 °F	1.12 @ 63 °F
"	5 7/8"
"	16"
"	34' 6"
"	6FF40
HRS	2 HRS
- DC	3705 - DC
TON	MCKEGWN
IT	WRIGHT

SH/11/12/63/DC

REMARKS B.H.T. 248 °F Measured 5 HOURS AFTER CIRCULATION

RUN #2

Stand Off = 1.5 inches

Cartridge No. IRC-F-41

Panel No. IRLP-F-160

Sonde No. IRS-M-36

IAP-D No. IAP-D-167

SBR SBR-4

* RMKS

RM1 1.50 @ 58 0.35 @ 248

RM2 1.46 @ 60 0.353 @ 248

RM3 1.44 @ 60 0.350 @ 248

* SP UNABLE TO OBTAIN BECAUSE OF EXCESSIVE DRIFTING

REMARKS B.H.T. 274 °F Measured 5 HOURS AFTER CIRCULATION

RUN #3

Stand Off = 1.5 inches

Cartridge No. IRC-F-41

Panel No. IRLP-F-160

Sonde No. IRS-M-26

IAP-D No. IAP-D-234

SBR SBR-4

* LOST CIRCULATION MATERIAL ADDED TO MUD

REMARKS B.H.T. 322 °F Measured 9 HOURS AFTER CIRCULATION

RUN #4

Stand Off = 0 inches

Cartridge No. G 332

Panel No. F 148

Sonde No. K 286

IAP-D No. 167

SBR 2

REMARKS B.H.T. 340 °F Measured 7 HOURS AFTER CIRCULATION

B.H.T. 340 F Measured 7 HOURS AFTER CIRCULATION

REMARKS
RUN #5

Stand Off = 0 inches
Cartridge No. F 43
Panel No. F 289
Sonde No. M 182
IAP.D No. 106
SBR 1

NOTE: SP RUN WITH DOWN HOLE GROUND

B.H.T. 354 F Measured 20 HOURS AFTER CIRCULATION

REMARKS
RUN #6

Stand Off = 0 inches
Cartridge No. 508
Panel No. 148
Sonde No. 268
IAP.D No. 167
SBR 4

SPONTANEOUS-POTENTIAL millivolts	DEPTHS	CONDUCTIVITY millimhos/m = $\frac{1000}{\text{ohms m}^2/\text{m}}$
- 20 +		INDUCTION 400 200 600 400 0
RESISTIVITY -- ohms m ² /m		
16" NORMAL 0 50		
0 500		
INDUCTION 0 50		

0 50
0 500

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

INDUCTION

1000 0
1500 1000

RESISTIVITY
- ohms m²/m

16" NORMAL

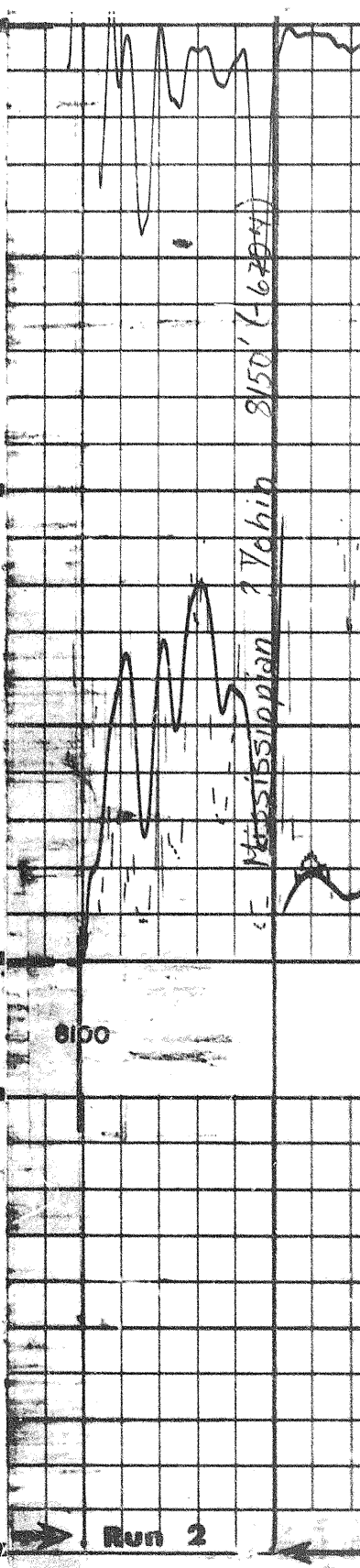
0 50
0 500

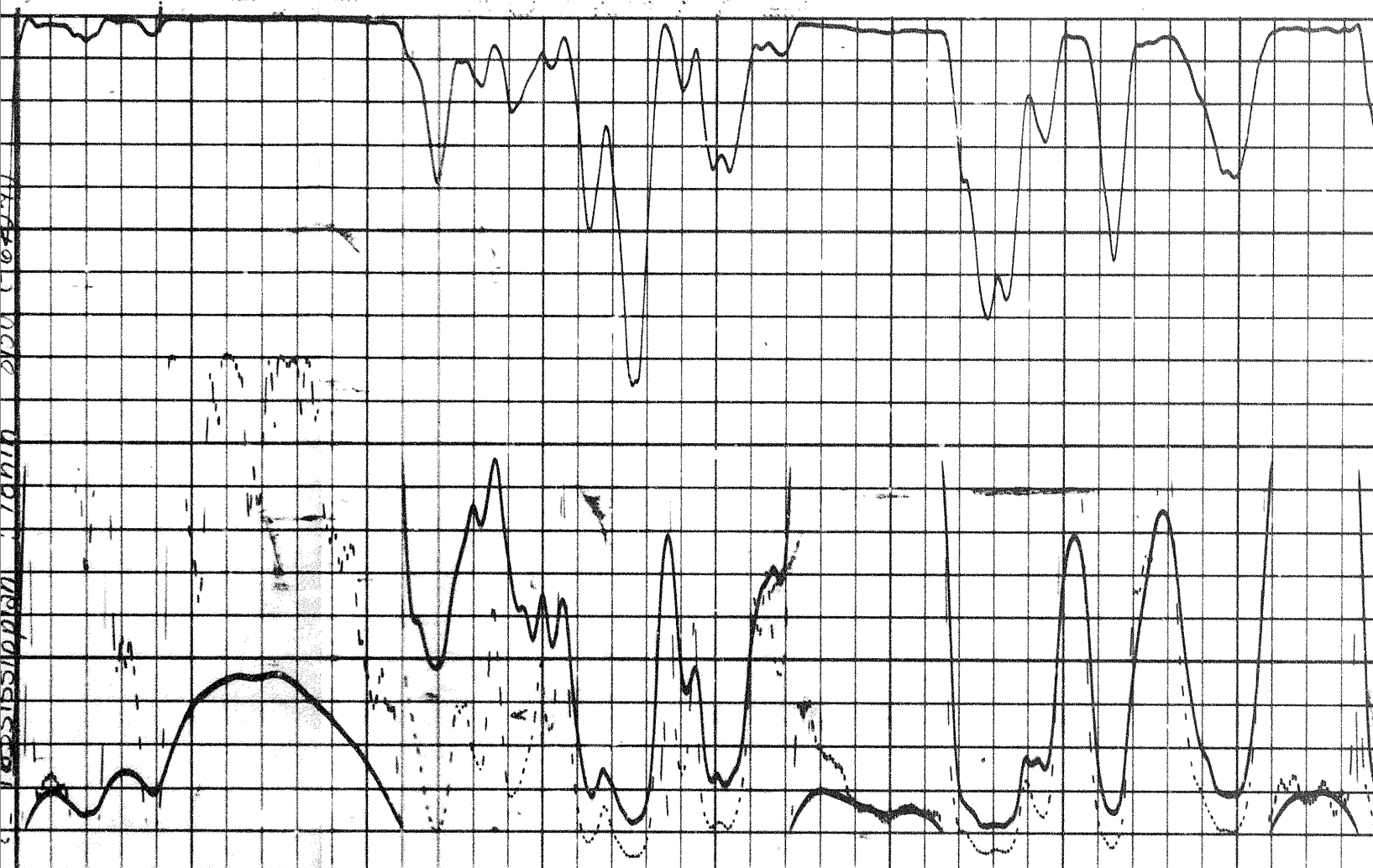
INDUCTION

0 50
0 500

DEPTHS

RUN #2 ONLY
NOTE: CONDUCTIVITY
SCALE CHANGE @ 10378





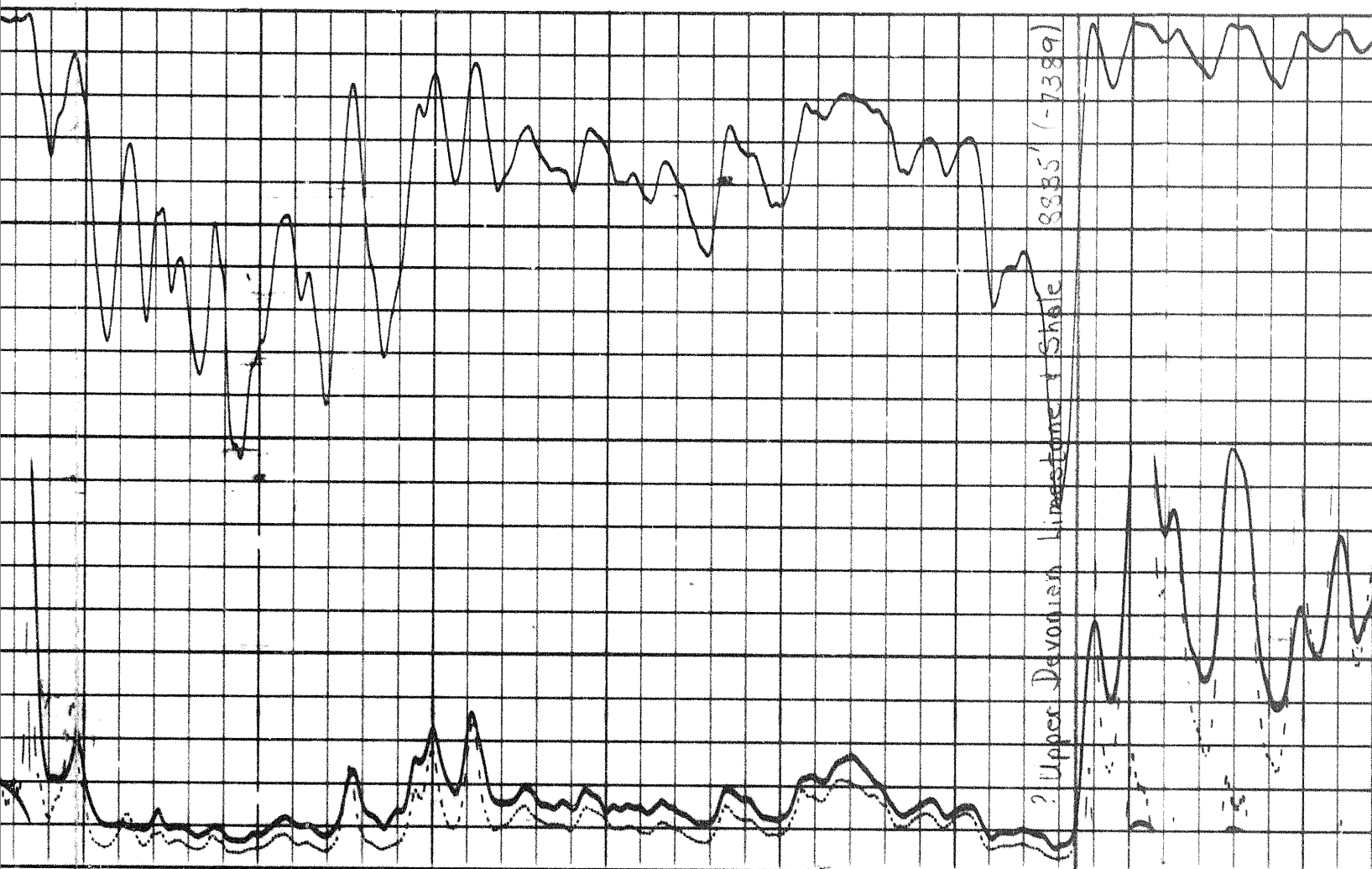
8200

8300

8400

8500

← Speed in F.P.M.



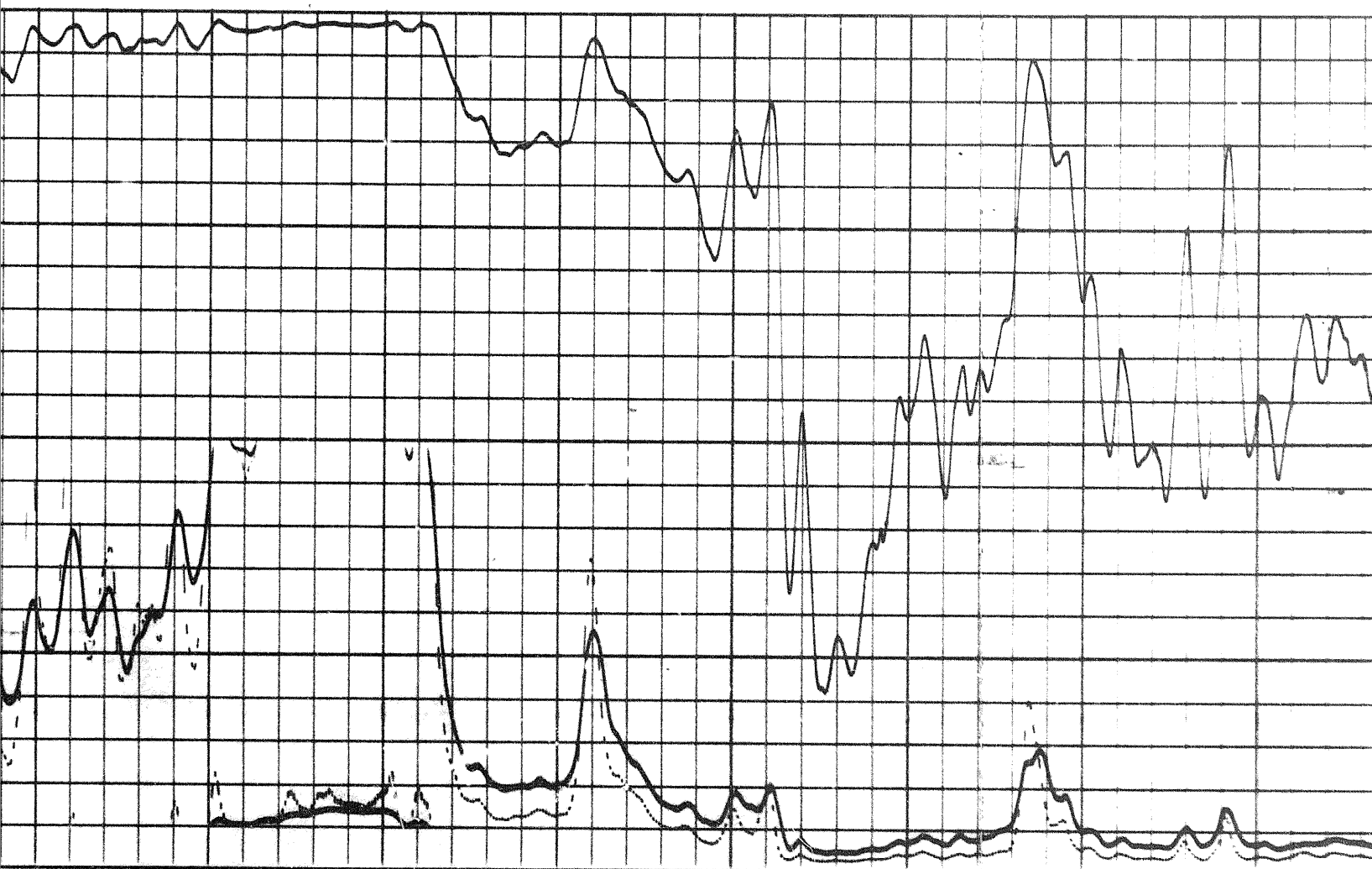
8600

8700

8800

8900

? Upper Devonian Limestone + Shale 8835' (-7389)

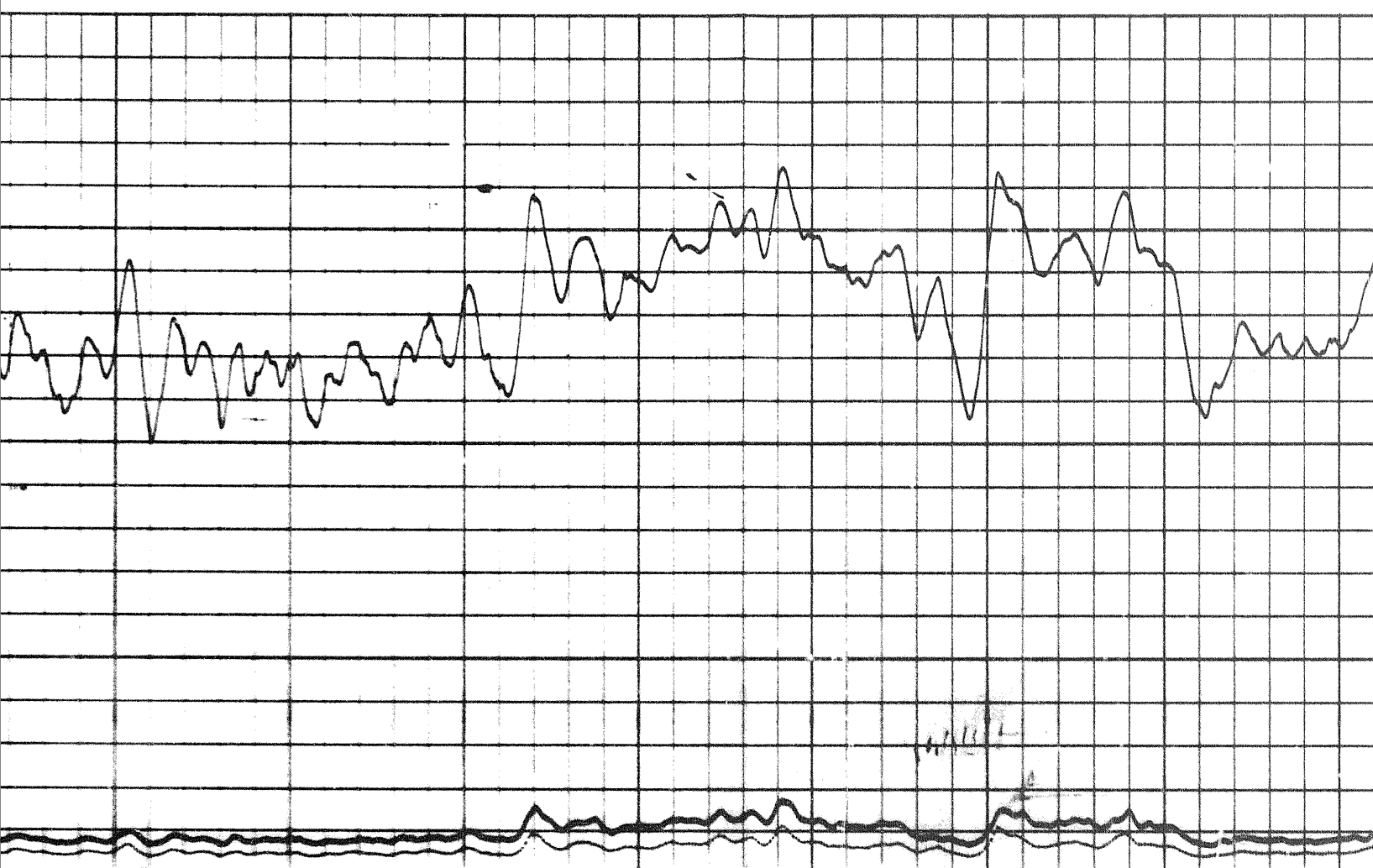


8900

9000

9100

9200



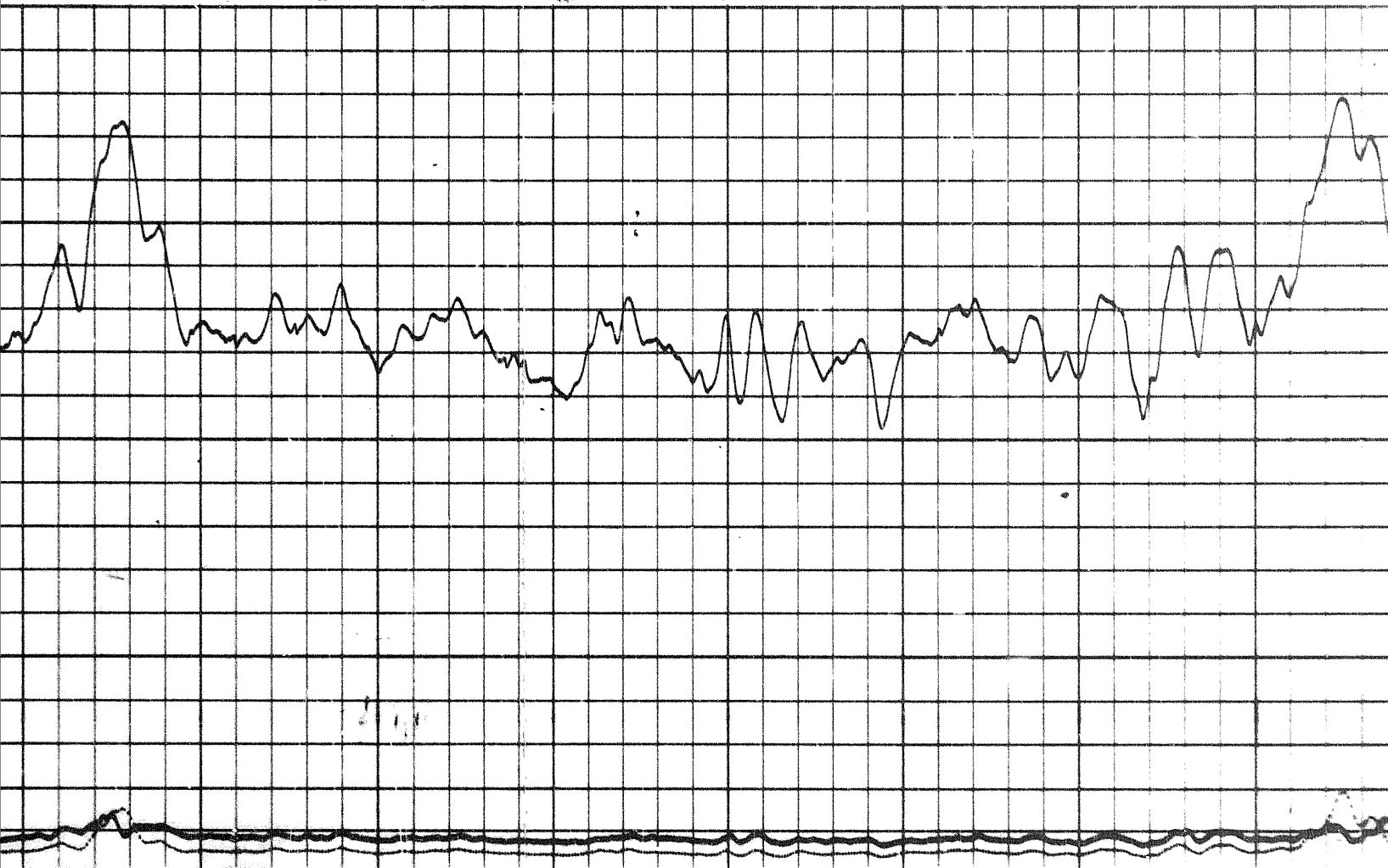
9300

9400

9500

9600

1000 2000 3000 4000 5000

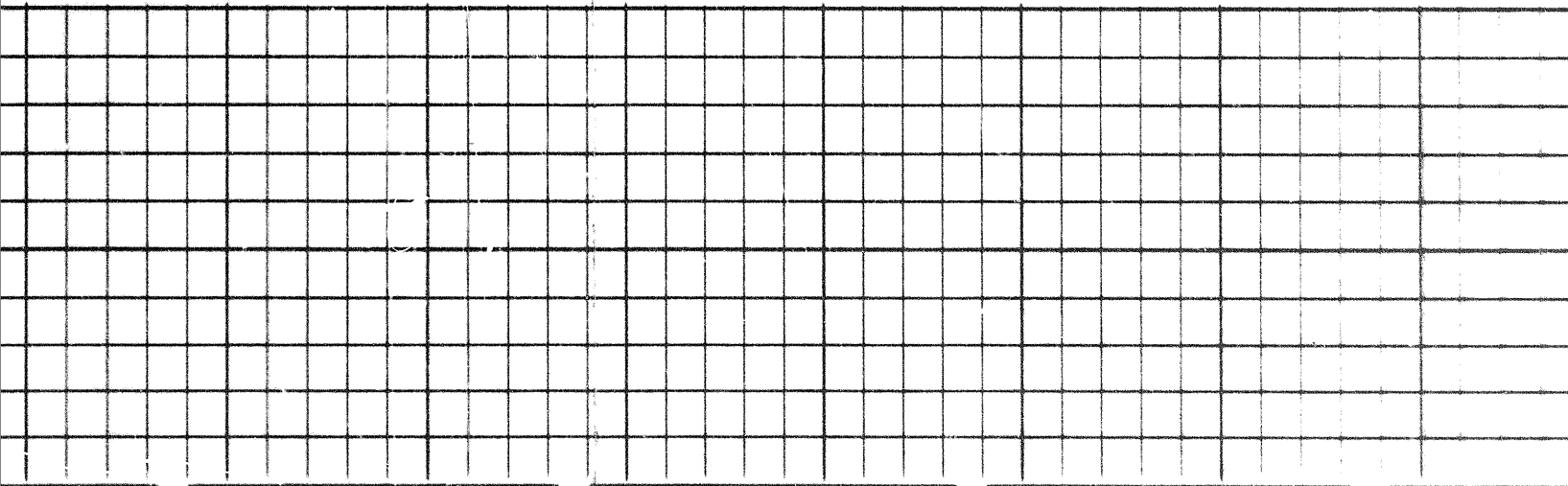


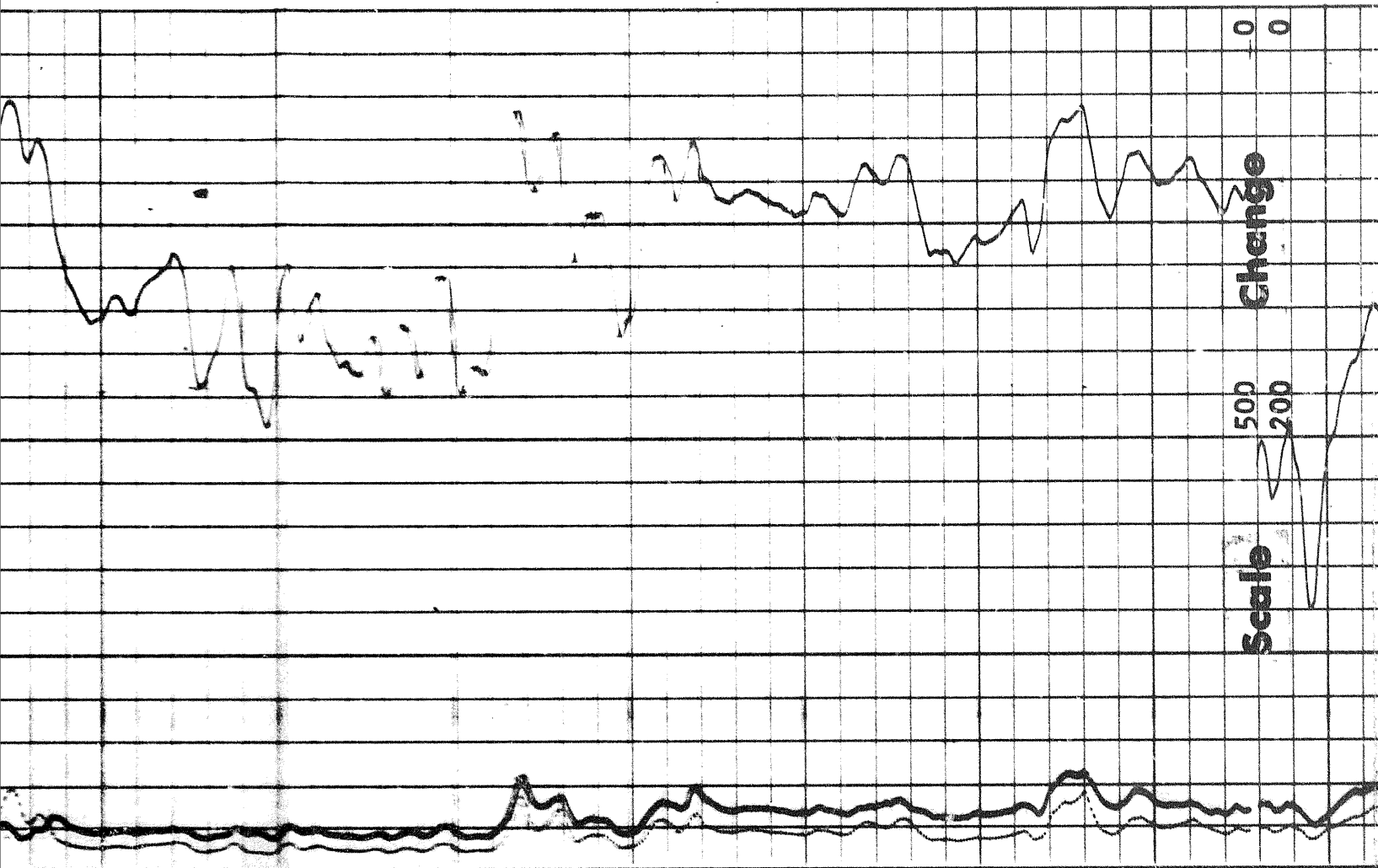
9700

9800

9900

10000





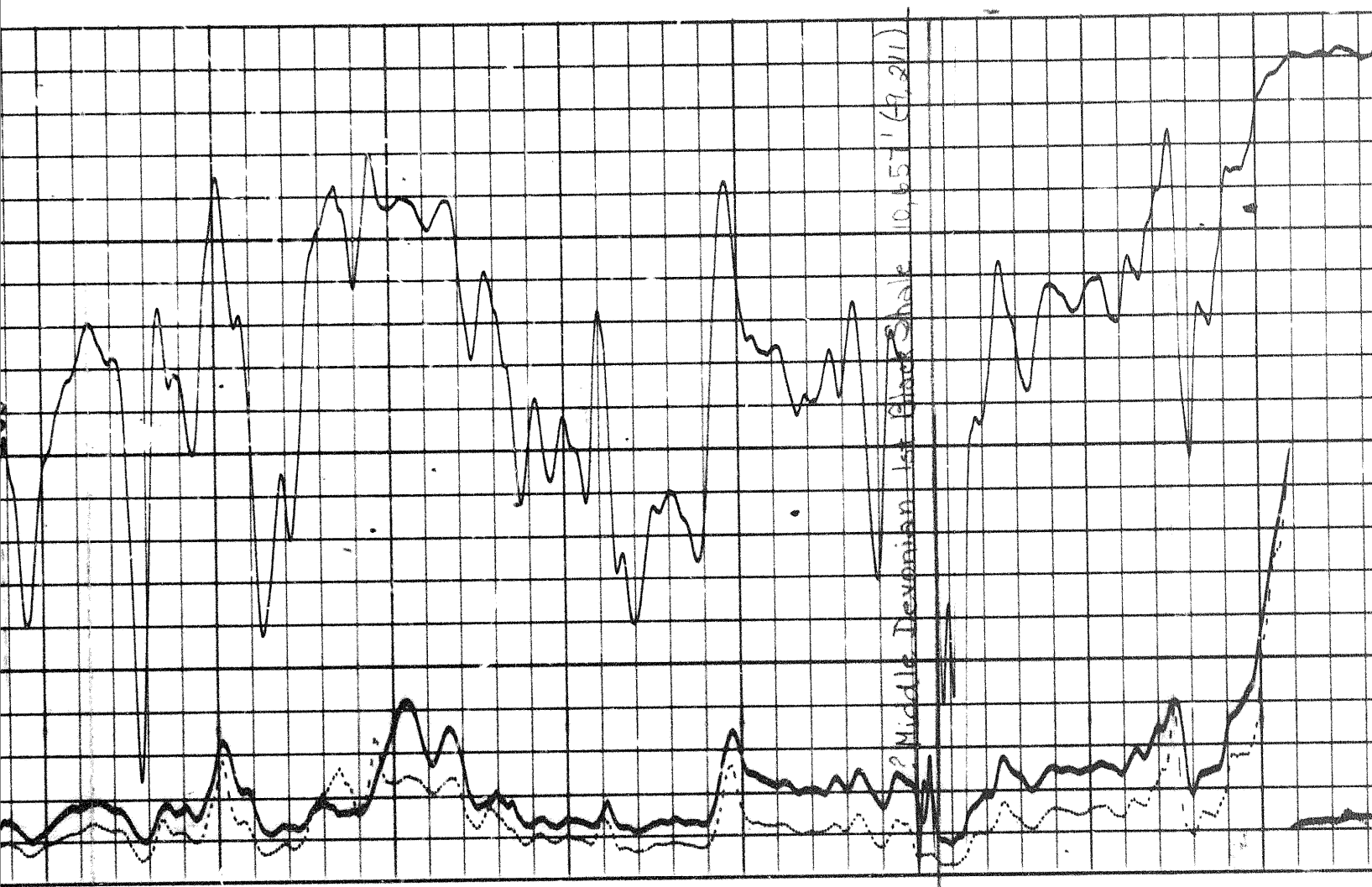
10100

10200

10300

10400

Scale
Change
500
200
0



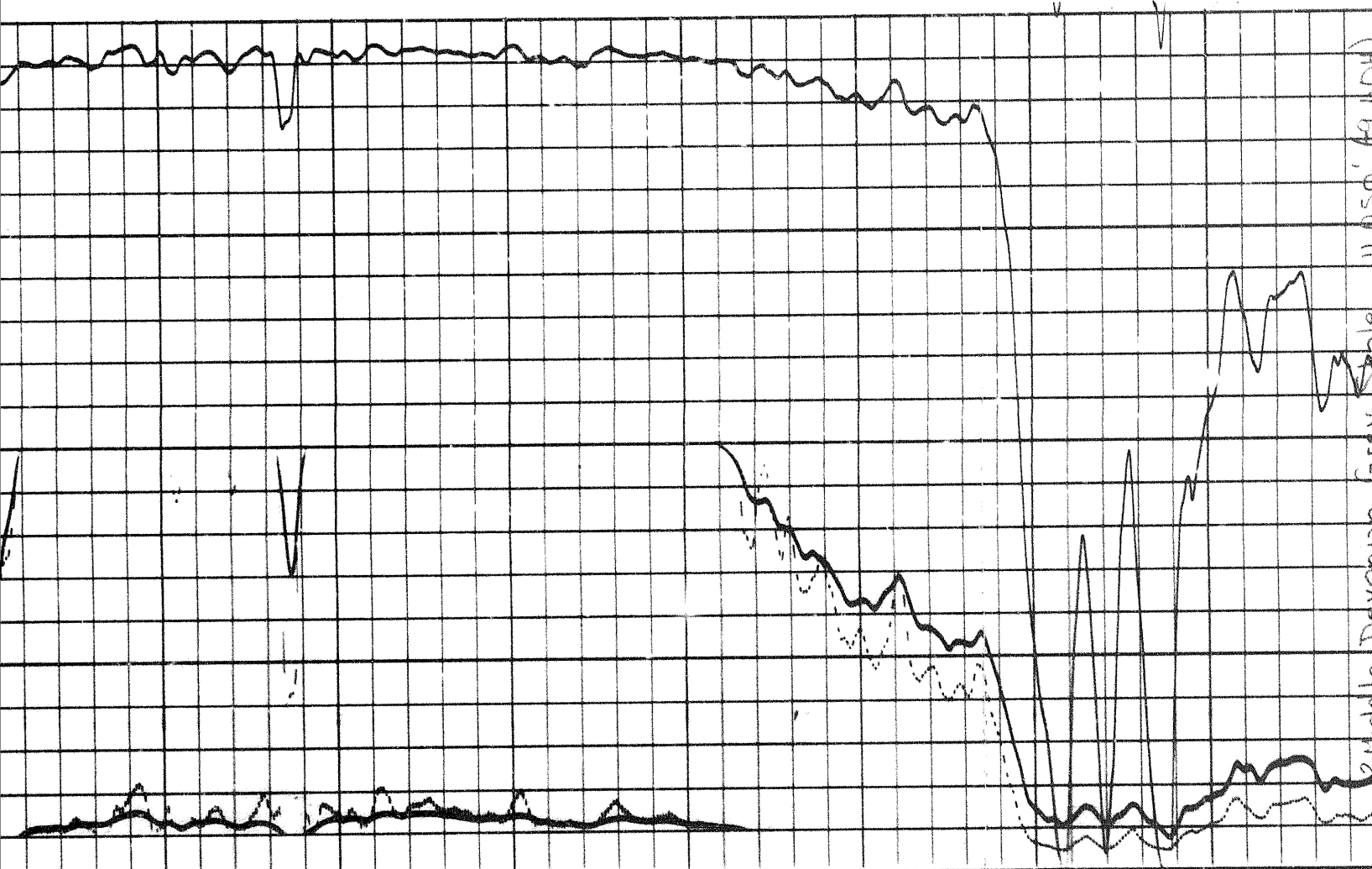
Middle Devonian 1st Black Shale 10,651' (9,211)

10400

10500

10600

10700



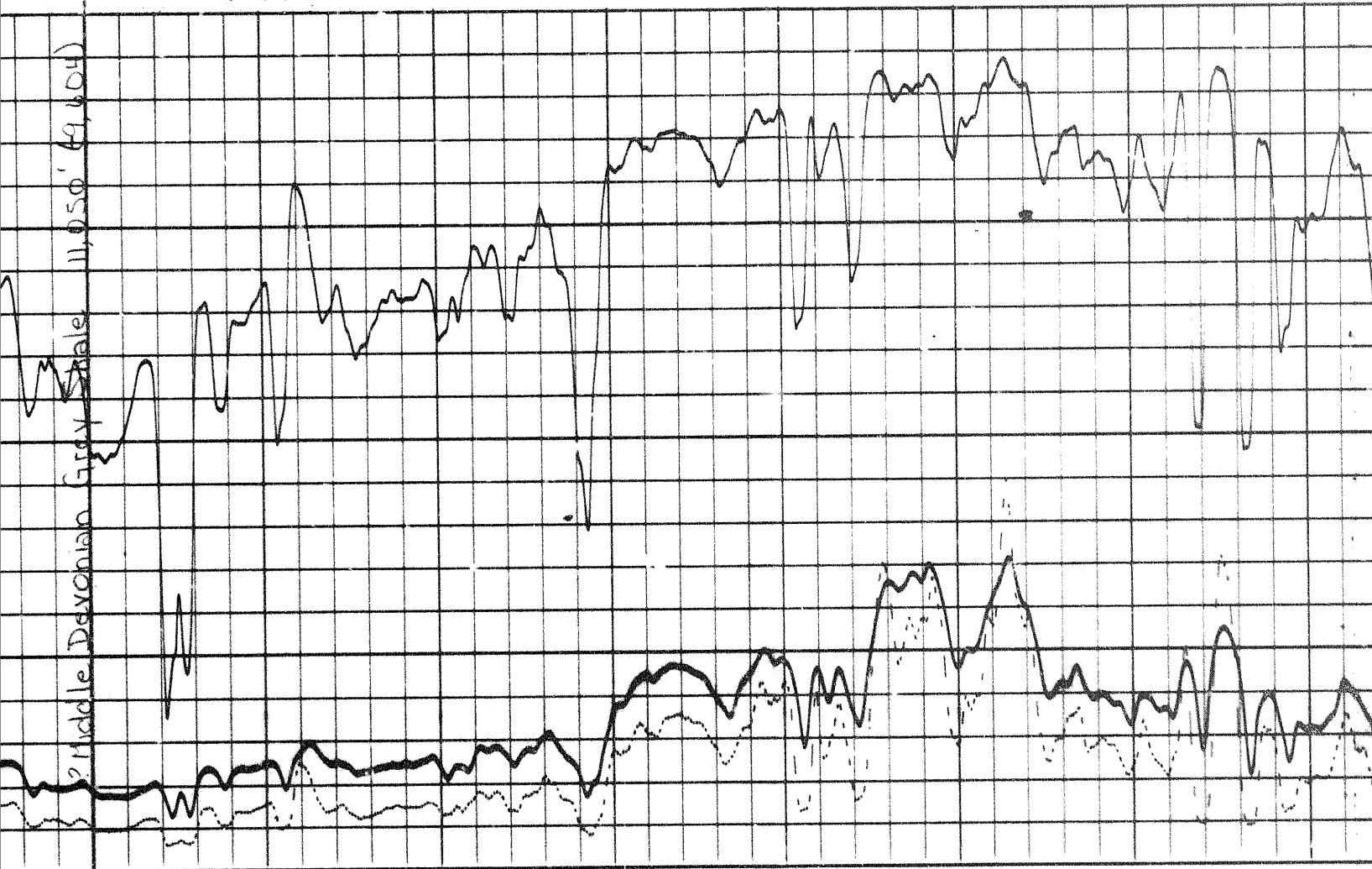
10800

10900

11000

11100

11050 (49104)
Deviation from



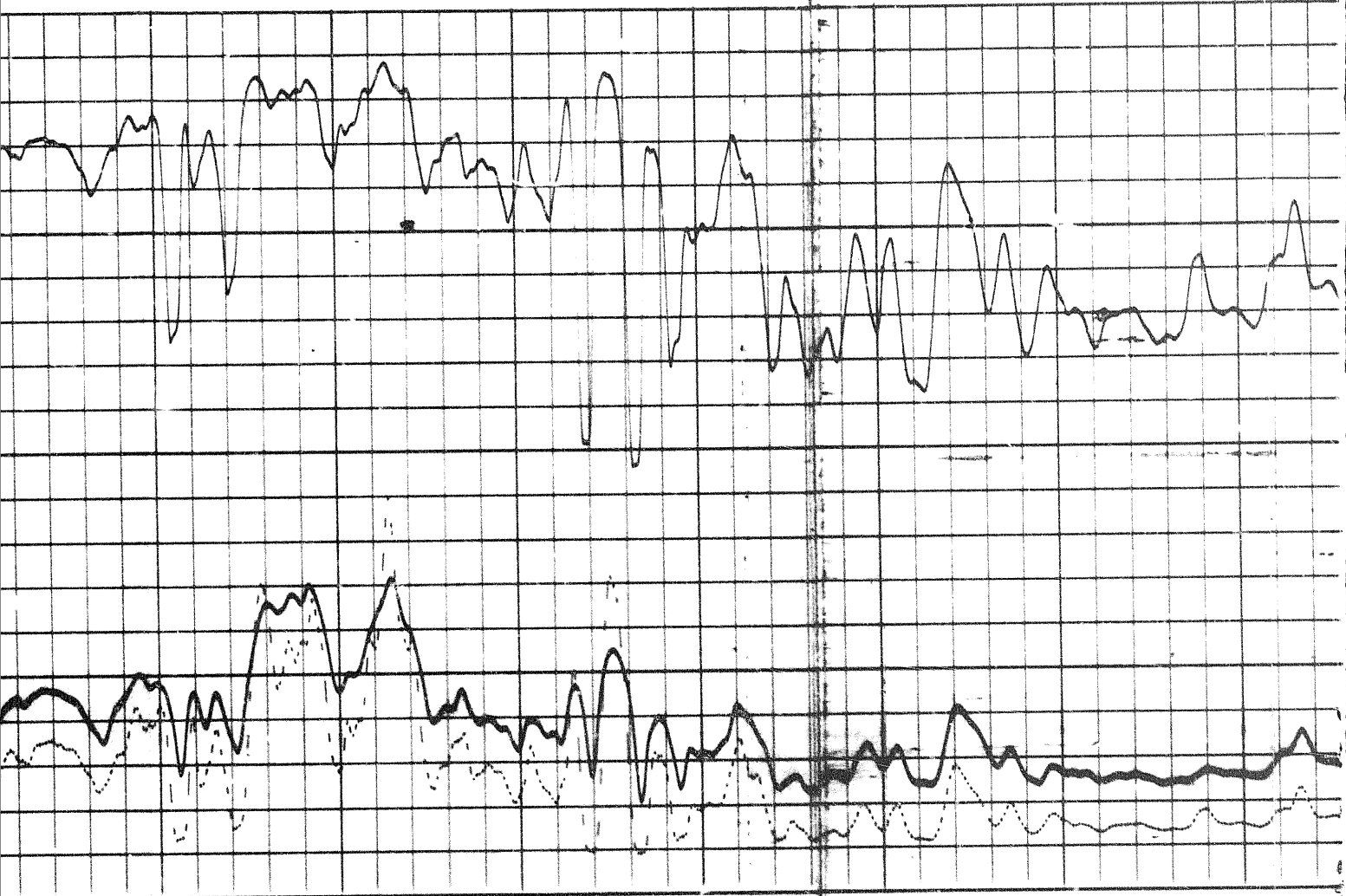
Middle Devonian Gray Shale 11,050' (9,604)

11200

11300

11400

11500



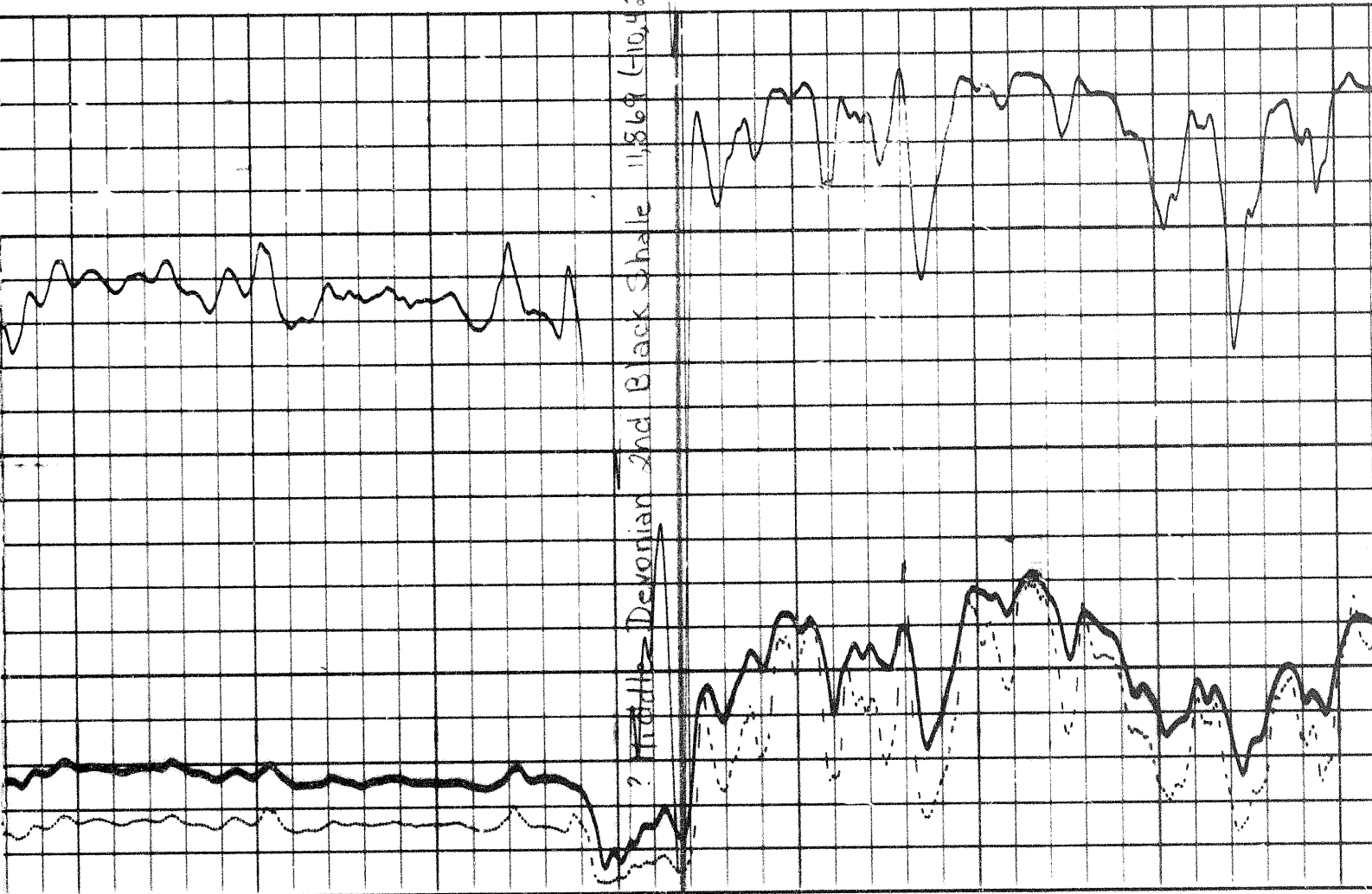
11400

11500

11600

Run 2 ← → Run 3

11869 (-10,423)
Middle Devonian and Black Shale

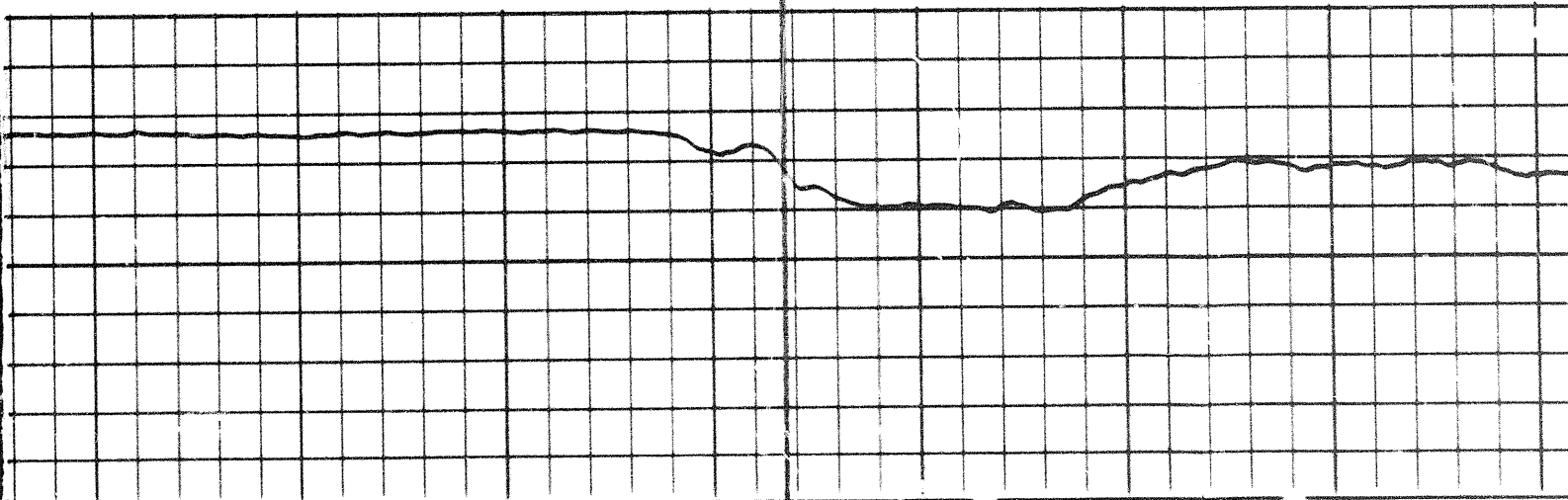


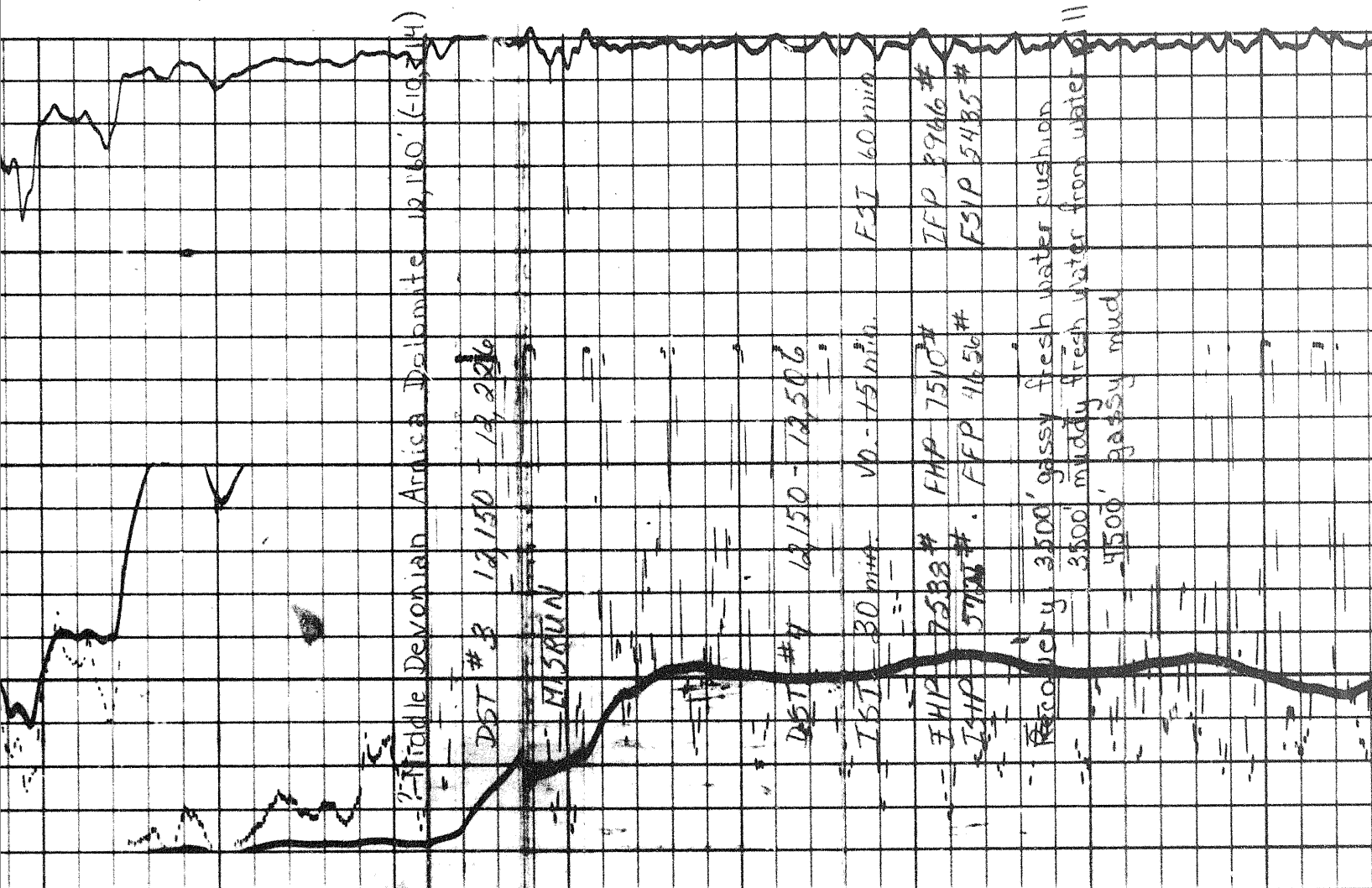
11700

11800

11900

12000





12100

Casing
12,150"
7"

D S T # 3

12200

D S T # 4

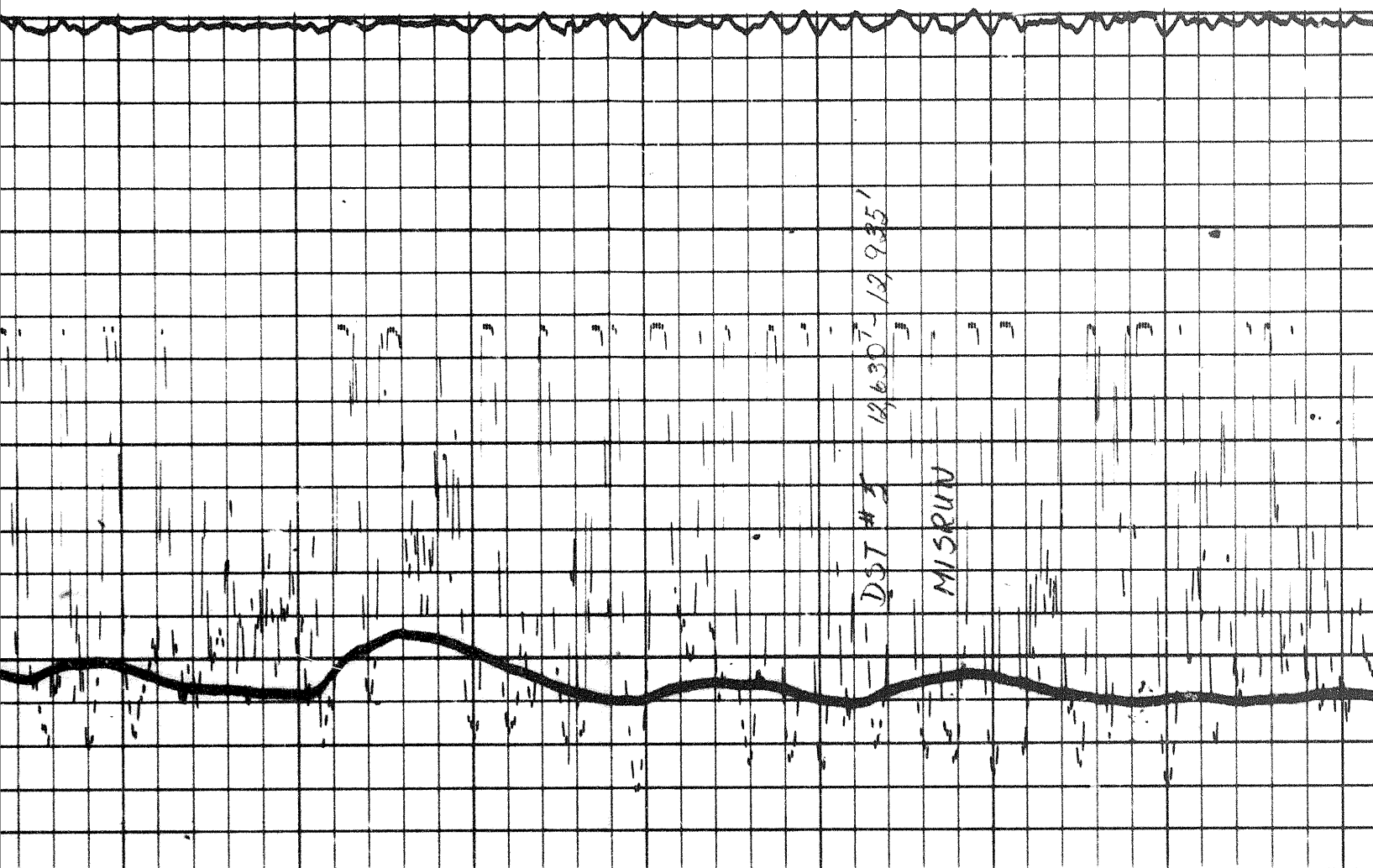
12300

12400

Run 3



Run 5



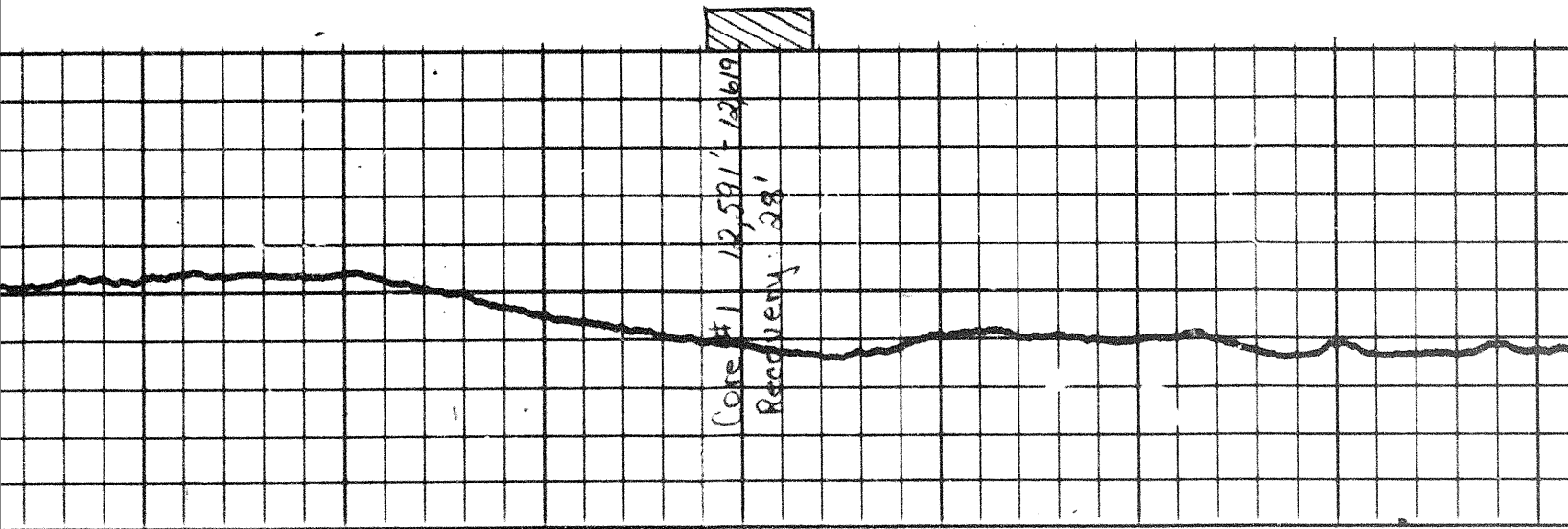
12500

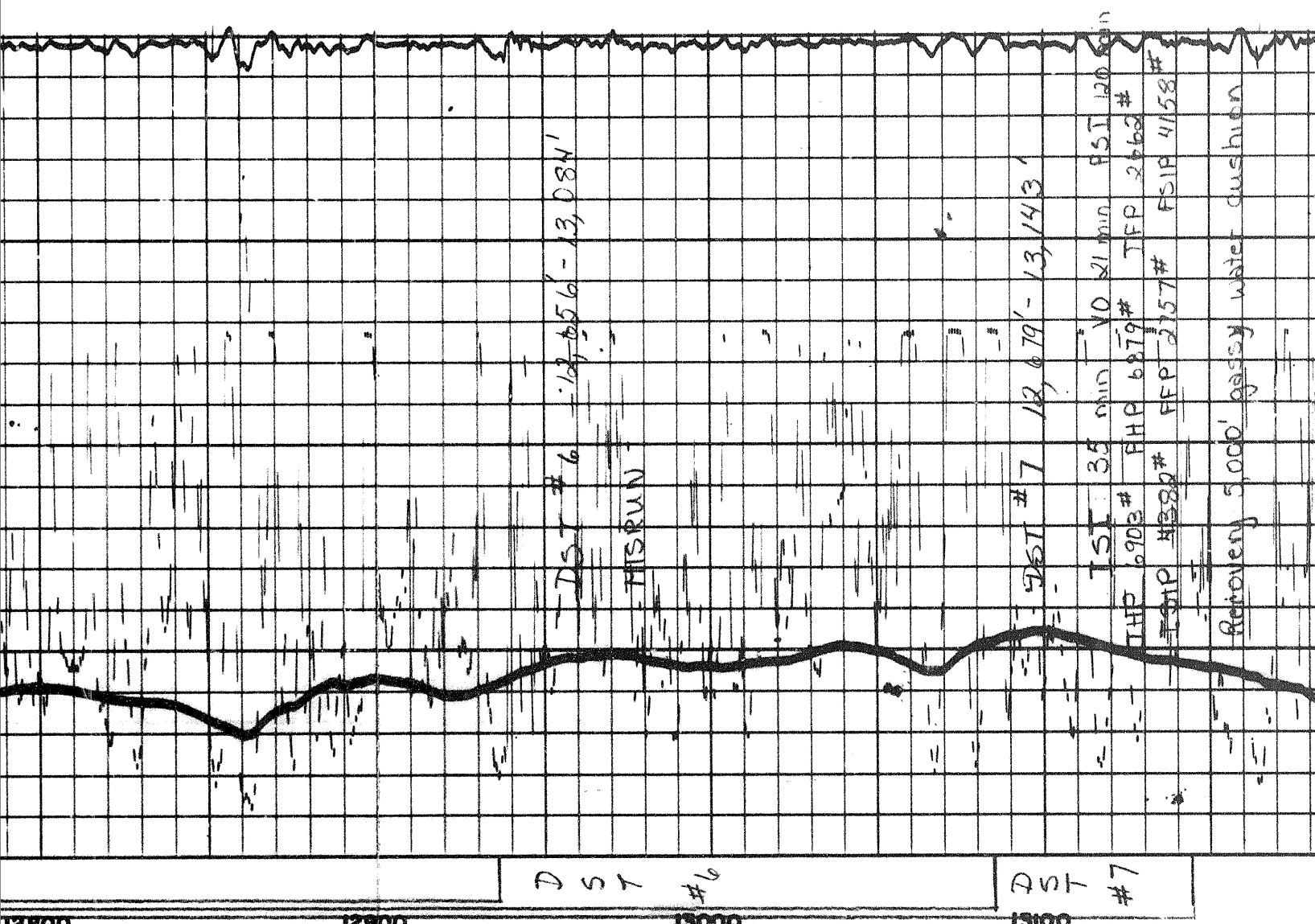
12600

12700

12800

DST # 1





DST #6
12,656' - 13,084'

MISRUN

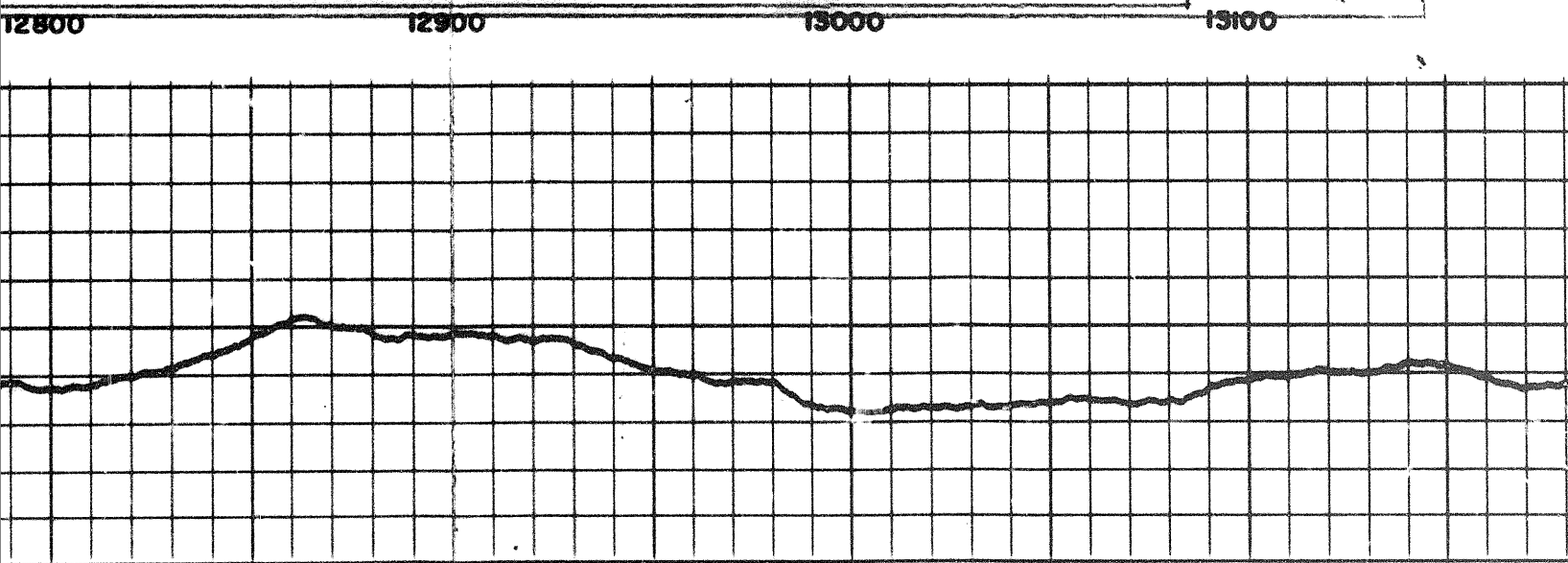
DST #7
12,679' - 13,143'

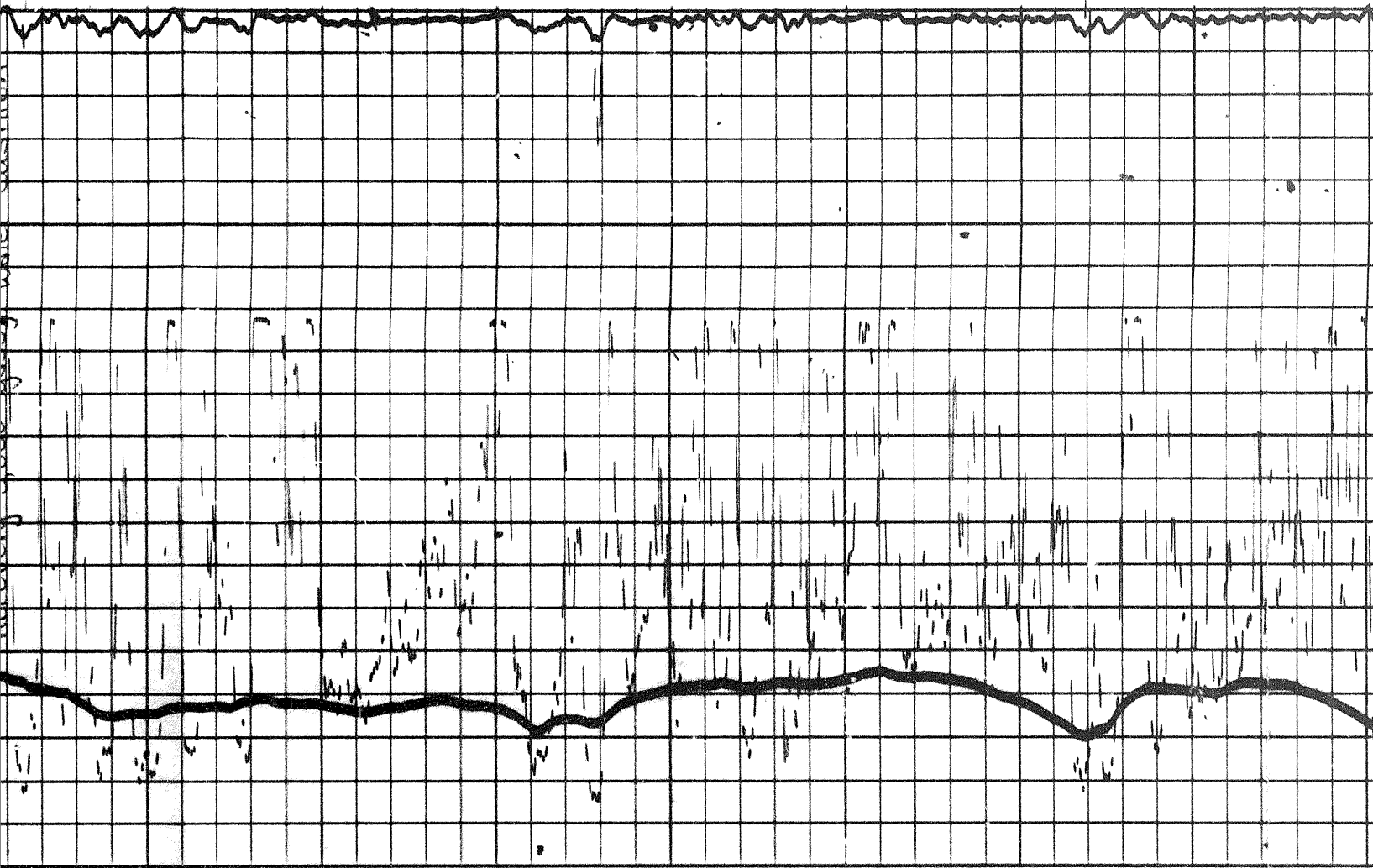
TST 35 min VO 21 min FST 120 min
IHP 6903# PHP 6879# JFP 2662#
IHP #380# AFP 2757# FSI# 4158#

Recovery 5,000' gassy water cushion

D S T #6

D S T #7



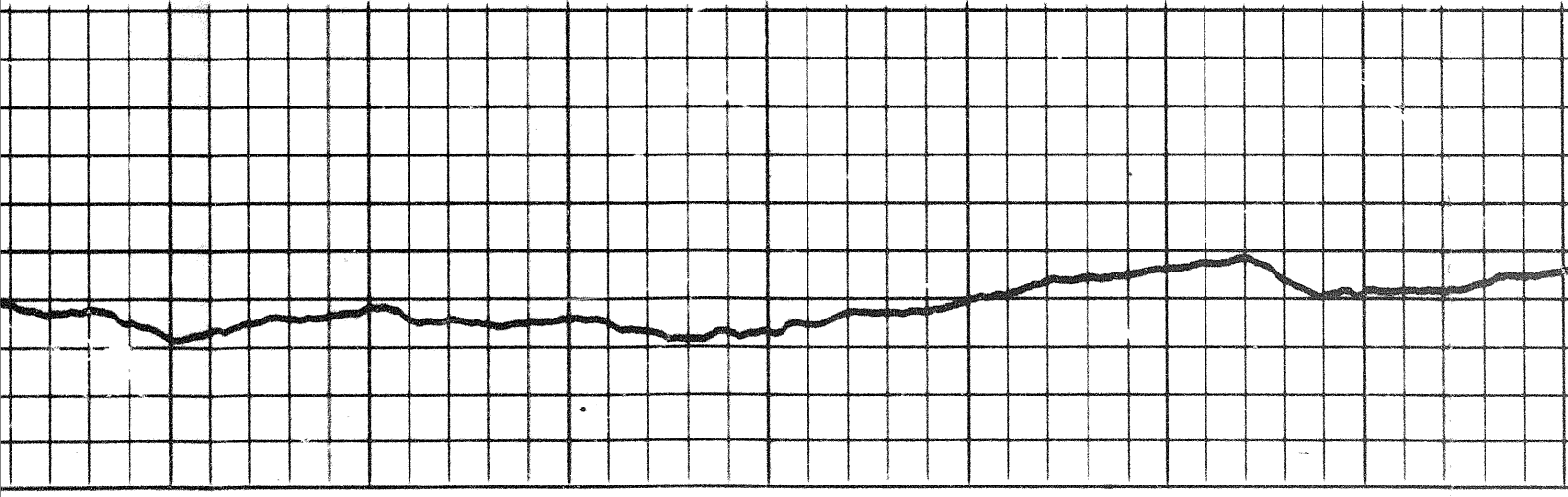


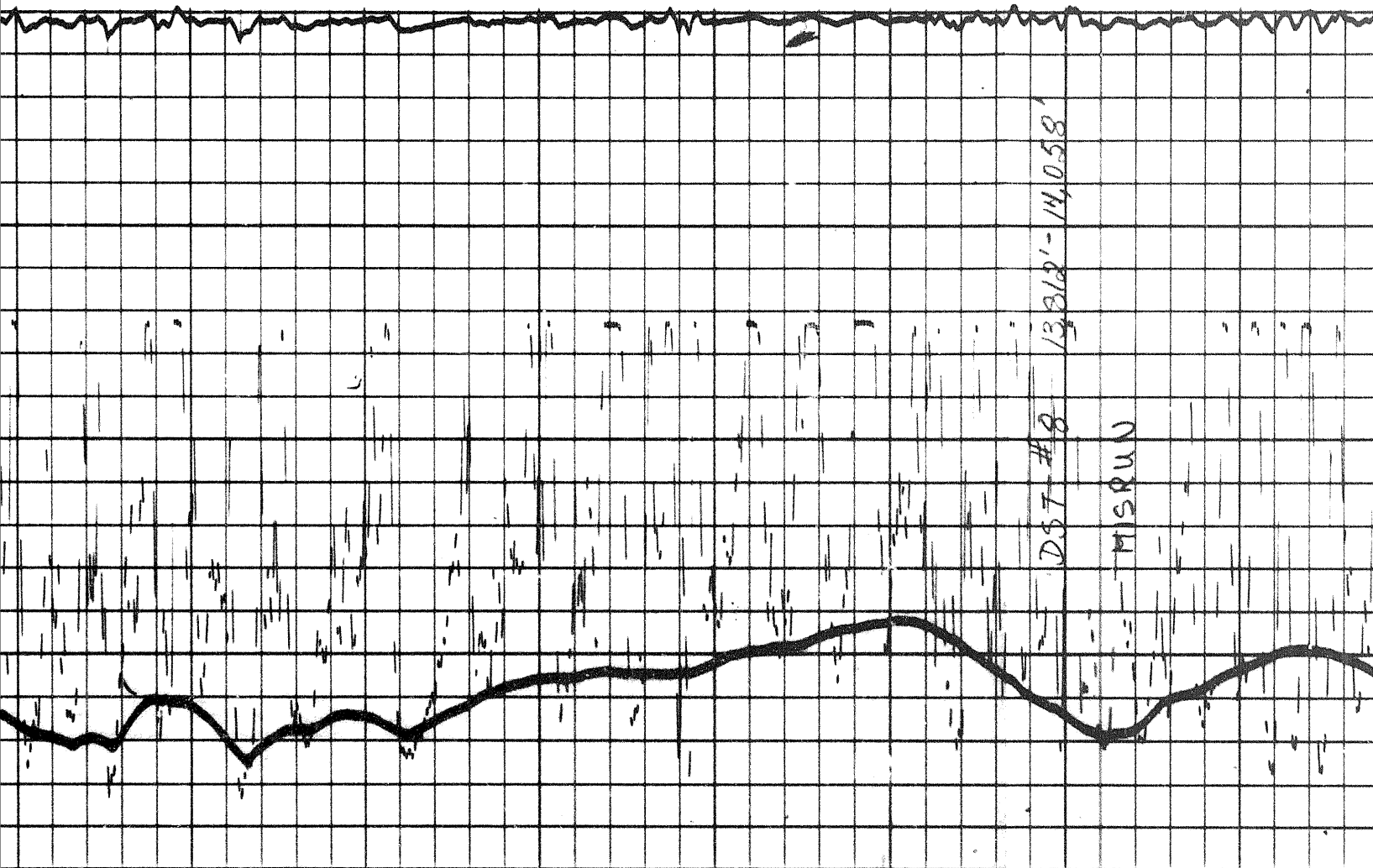
13200

13300

13400

13500





DST #8
13,812' - 14,058''

MISRUN

13600

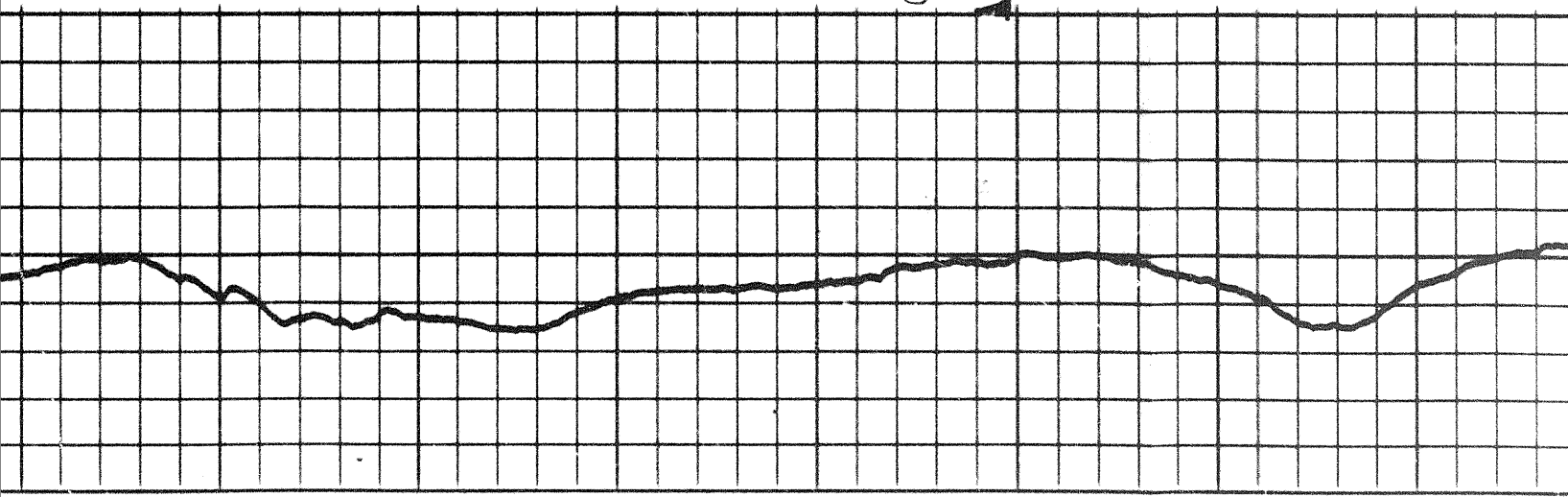
13700

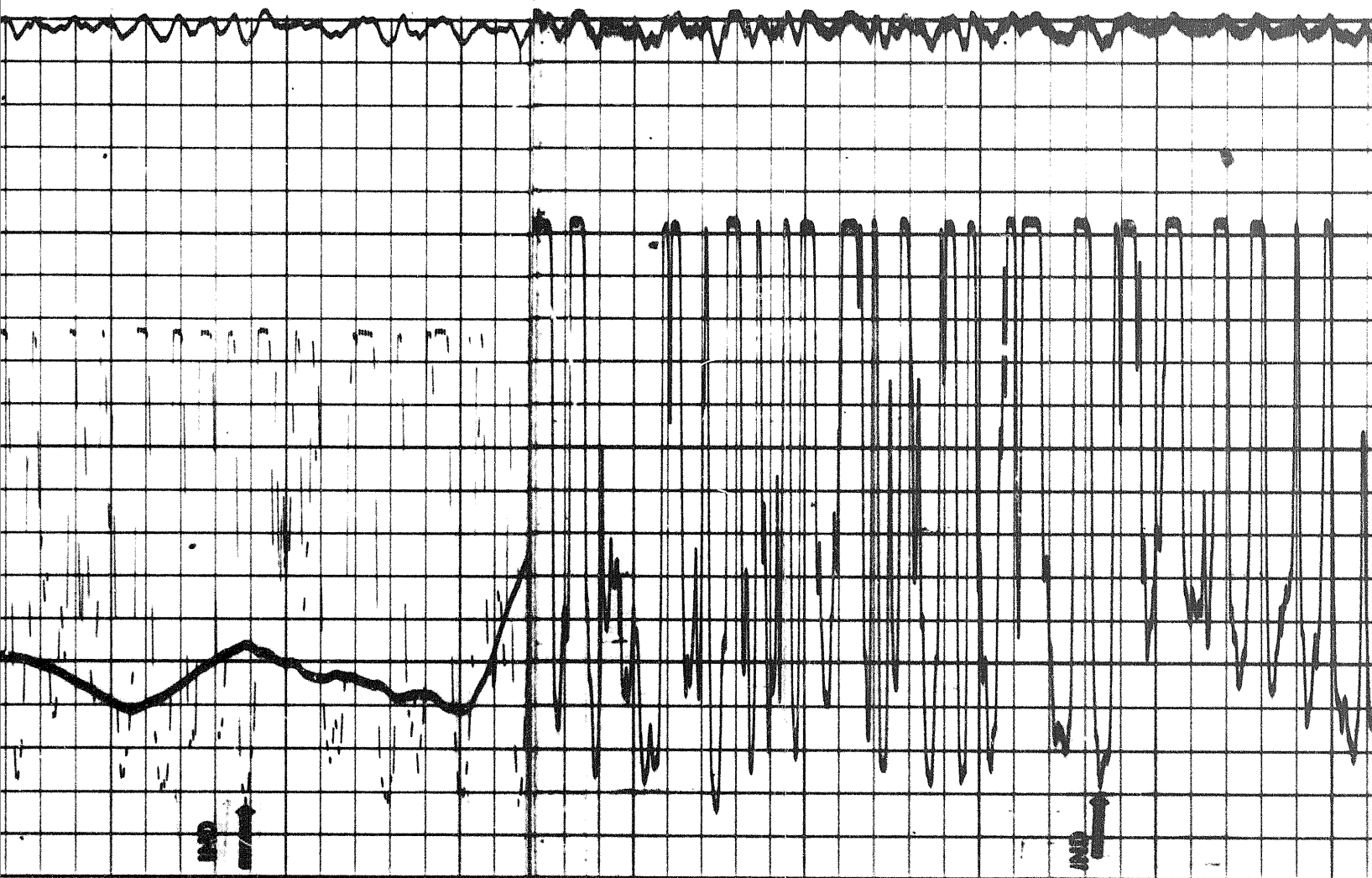
Casing
13,798'
5"

13800

D S T # 8

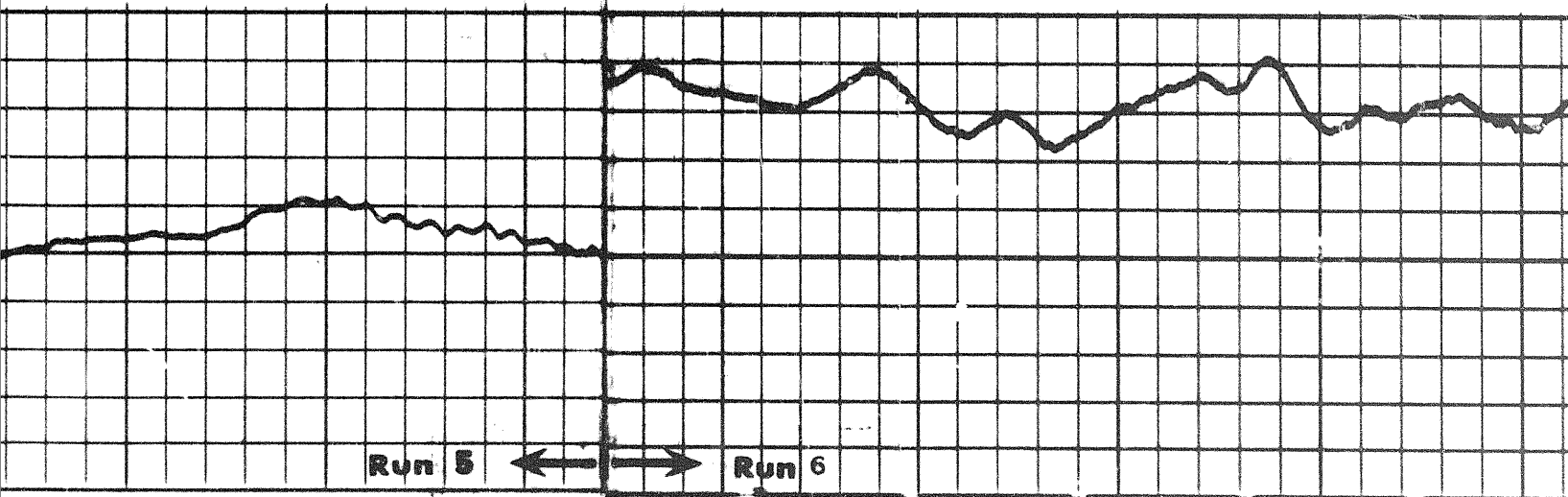
13900



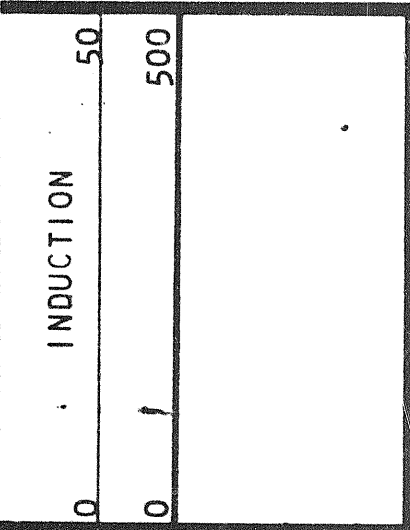
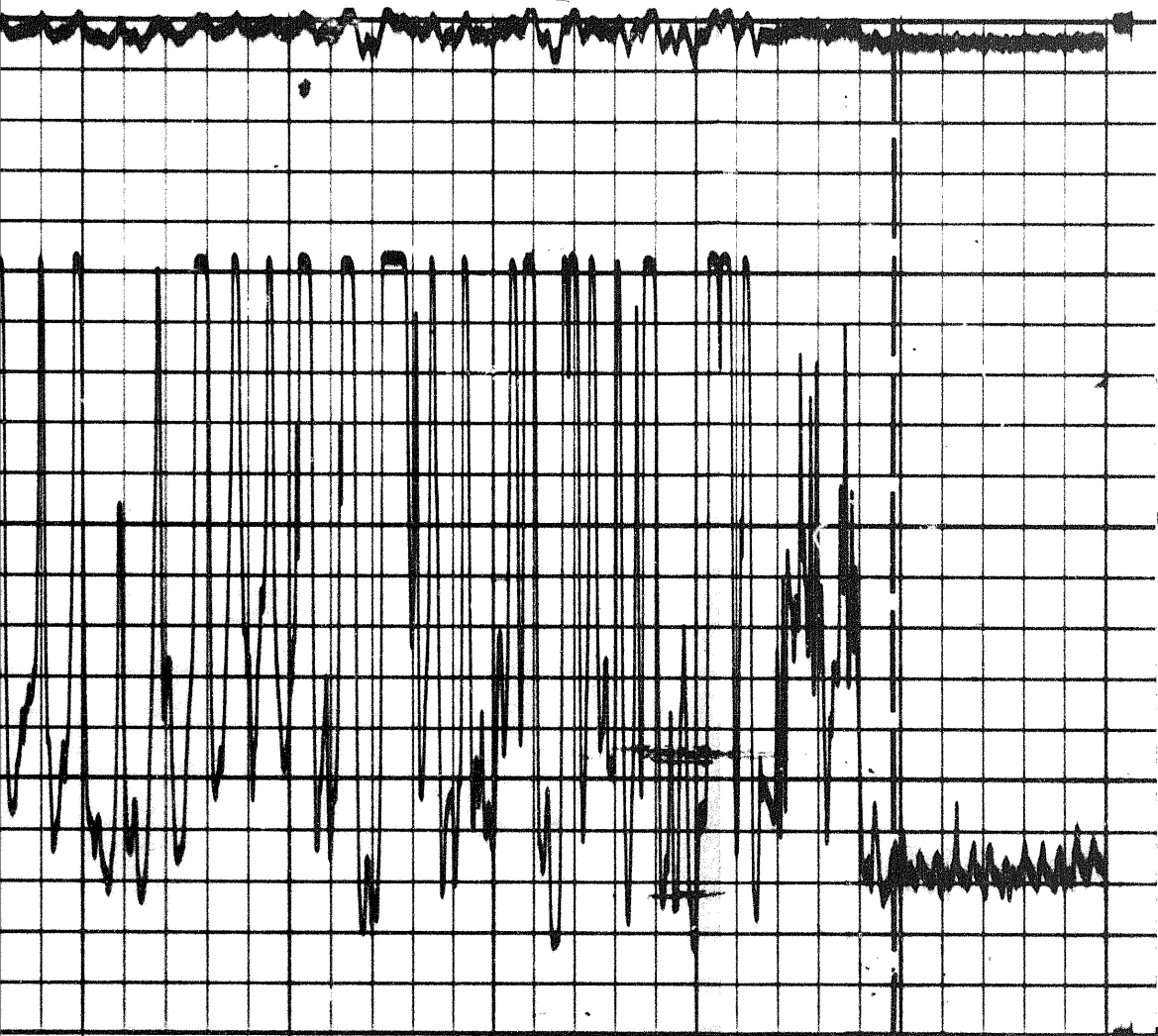


8

1400 1400 14200 14300



Run 5 ← → Run 6



14300

14400

14500

Run 6



RESISTIVITY
- ohms m²/m

INDUCTION
200

400

600

400

20
↔

SPONTANEOUS-POTENTIAL
millivolts

DEPTHS

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

DETAIL LOG

5" = 100'

DEPTHS

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

INDUCTION
500

1000

1500

1000

RESISTIVITY
- ohms m²/m

16" NORMAL

50

0

500

0

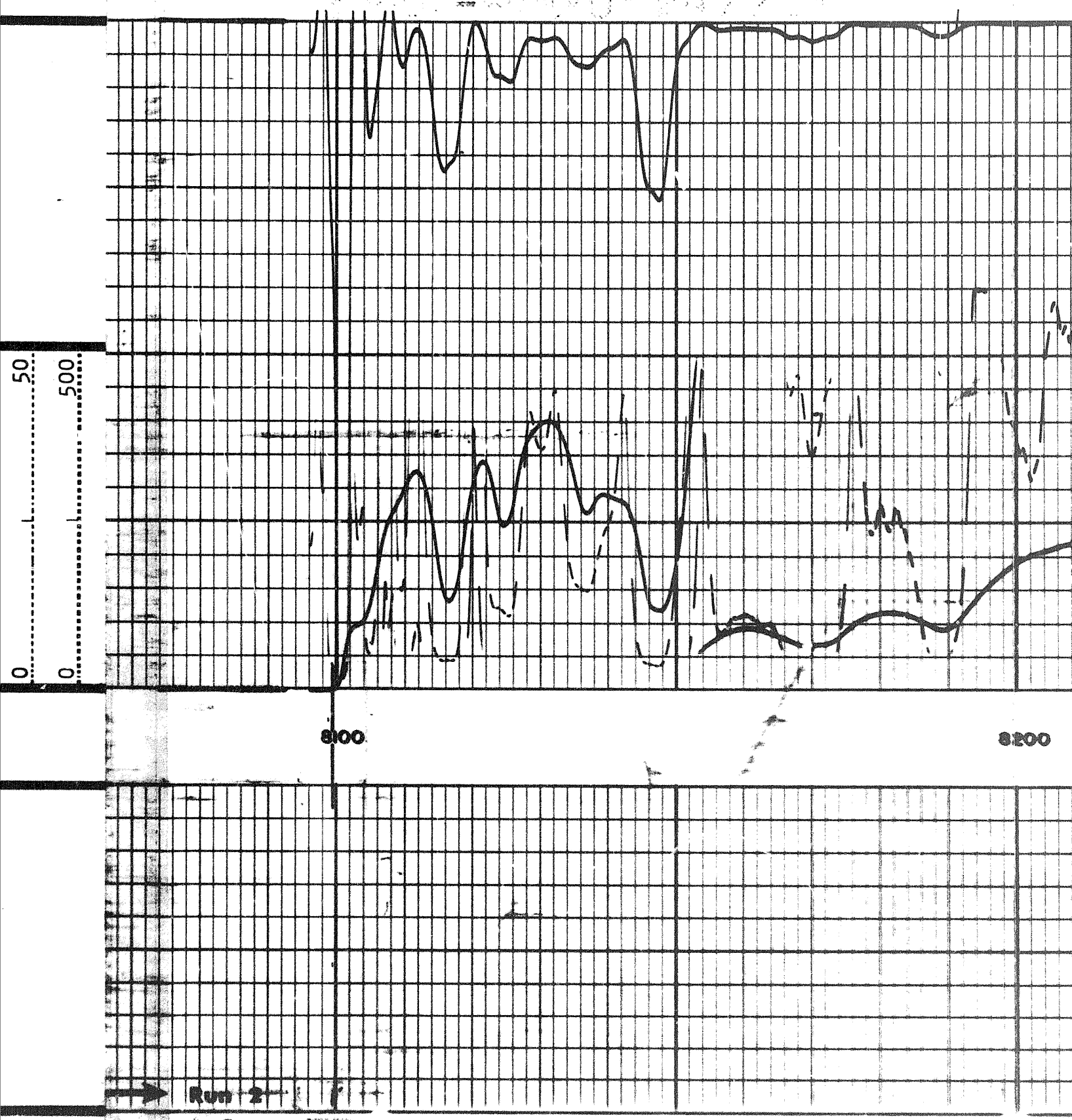
INDUCTION

50

0

500

0

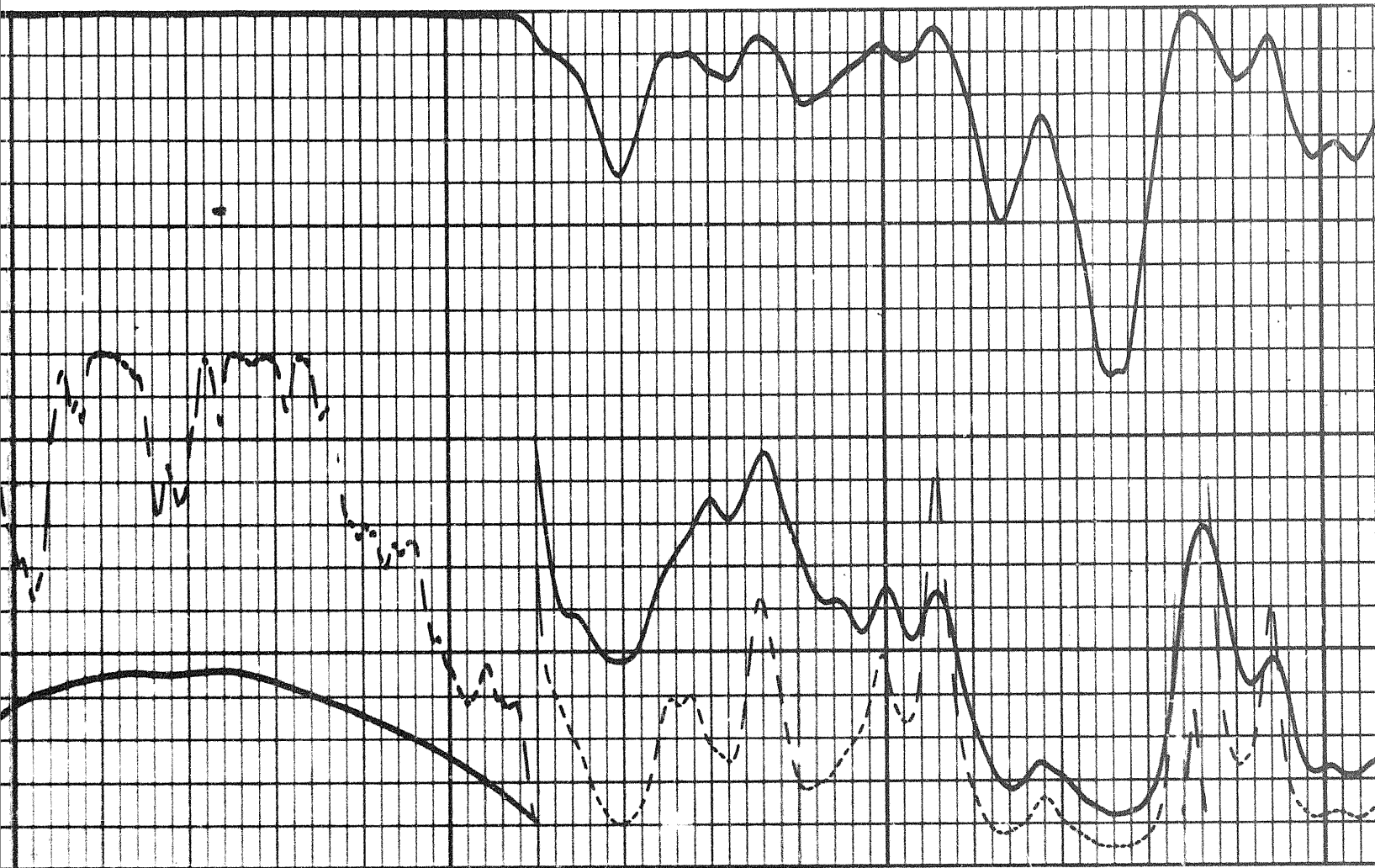


50
500
0
0

800

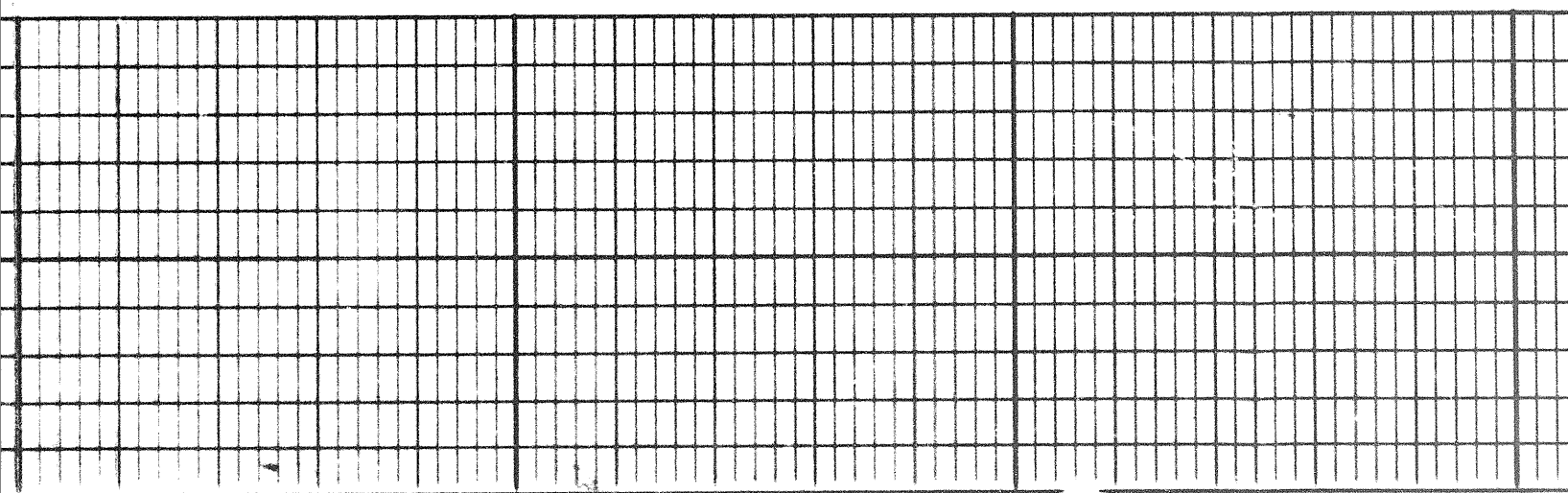
8200

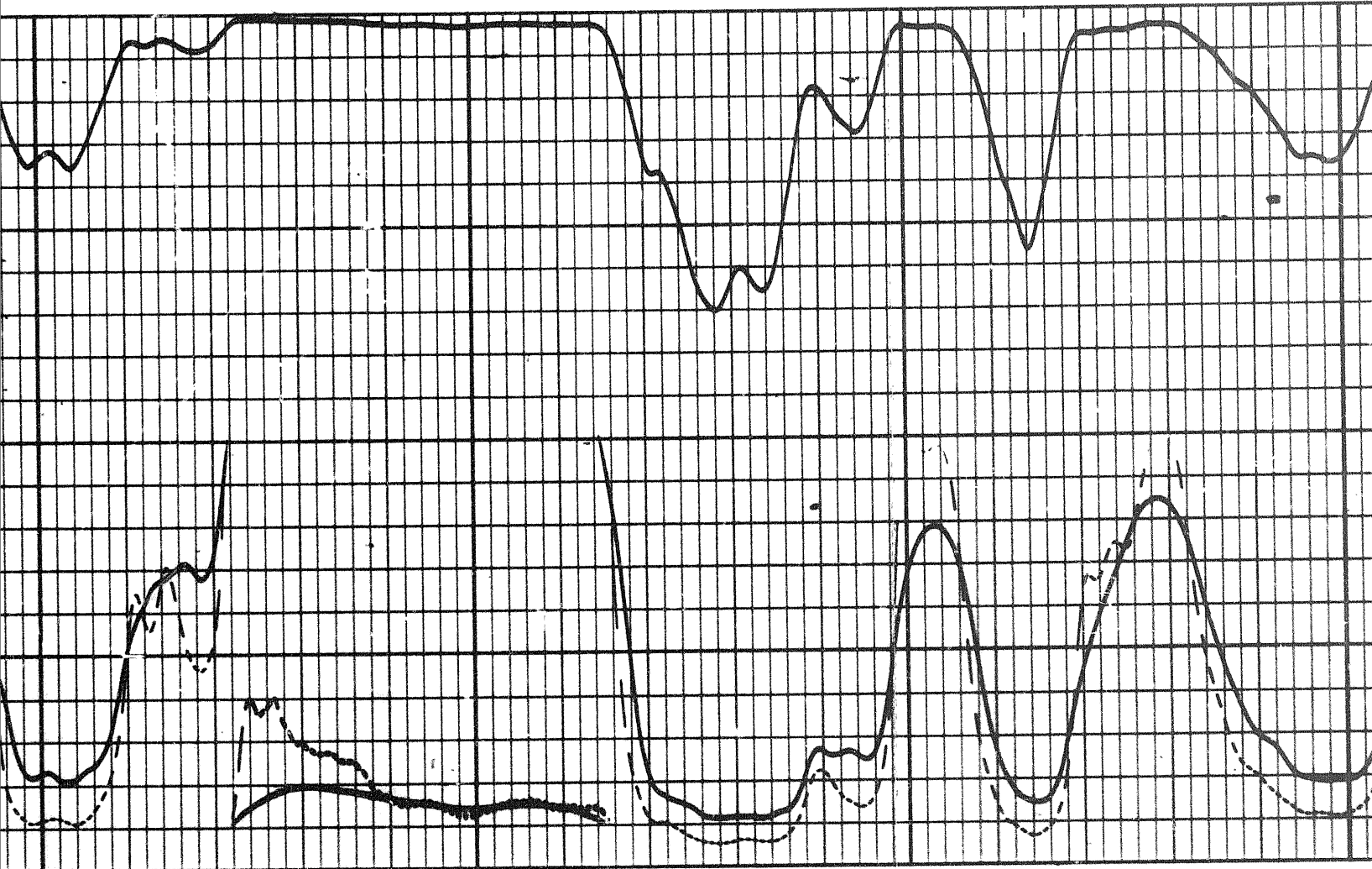
Run 2



8200

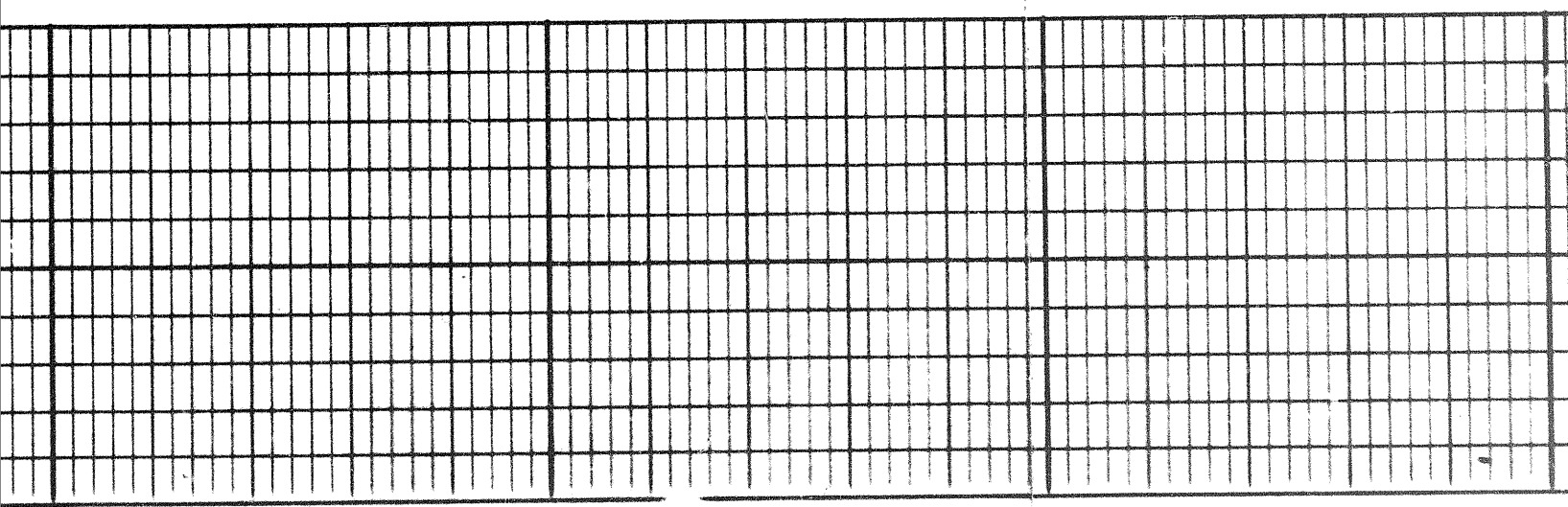
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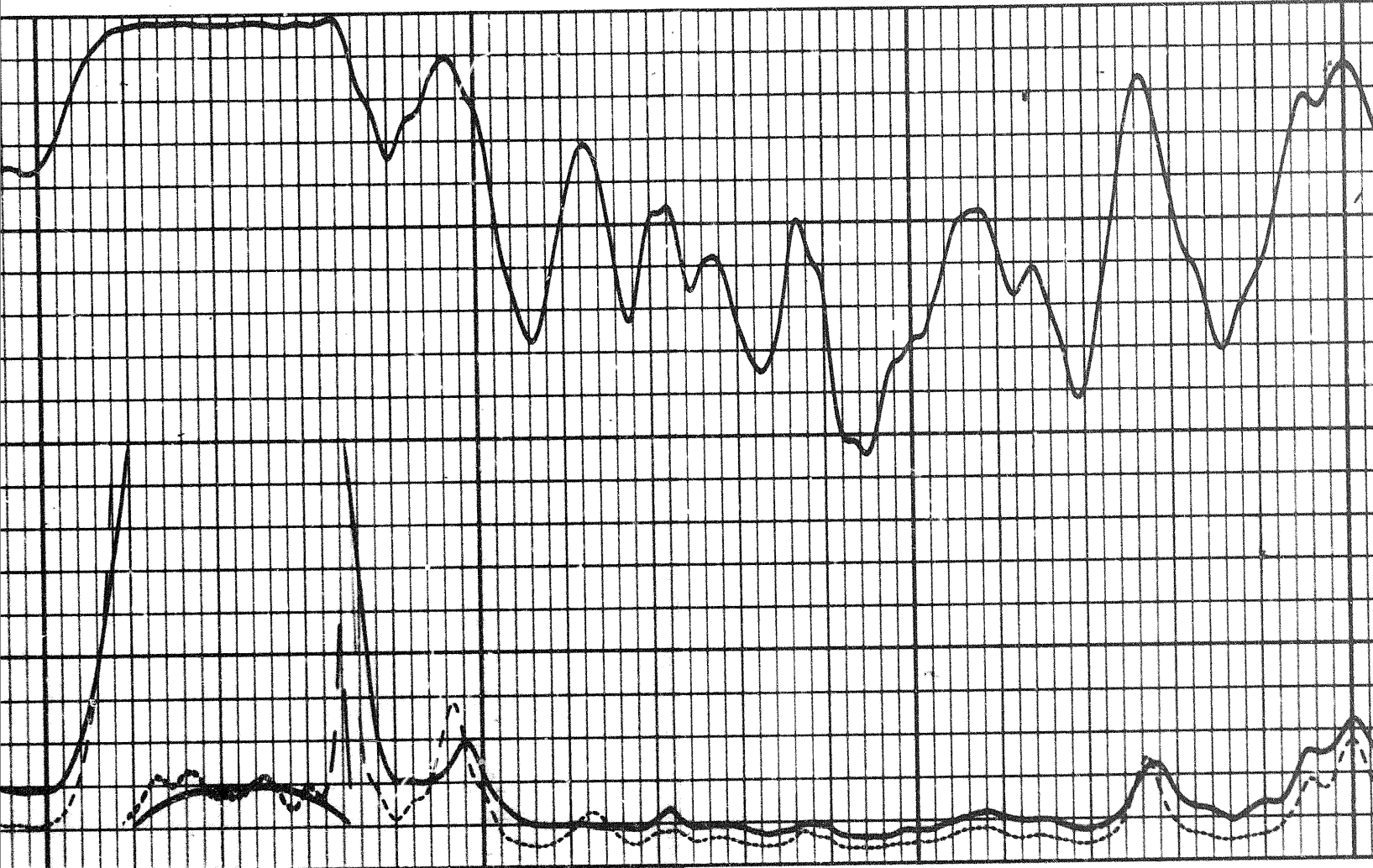




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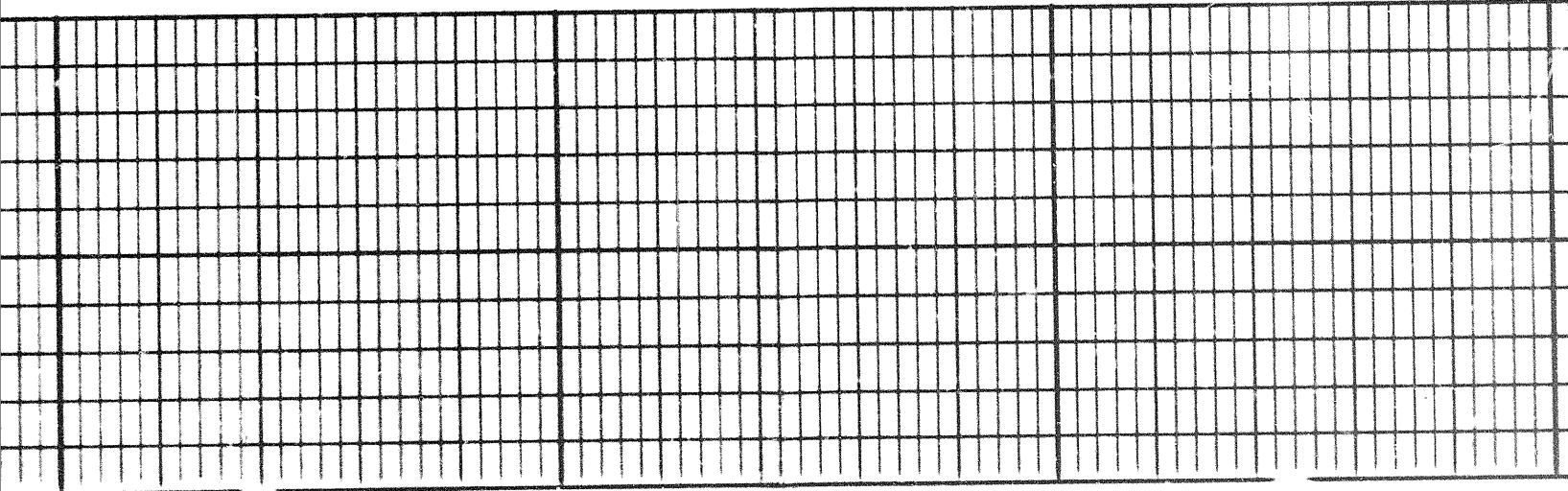
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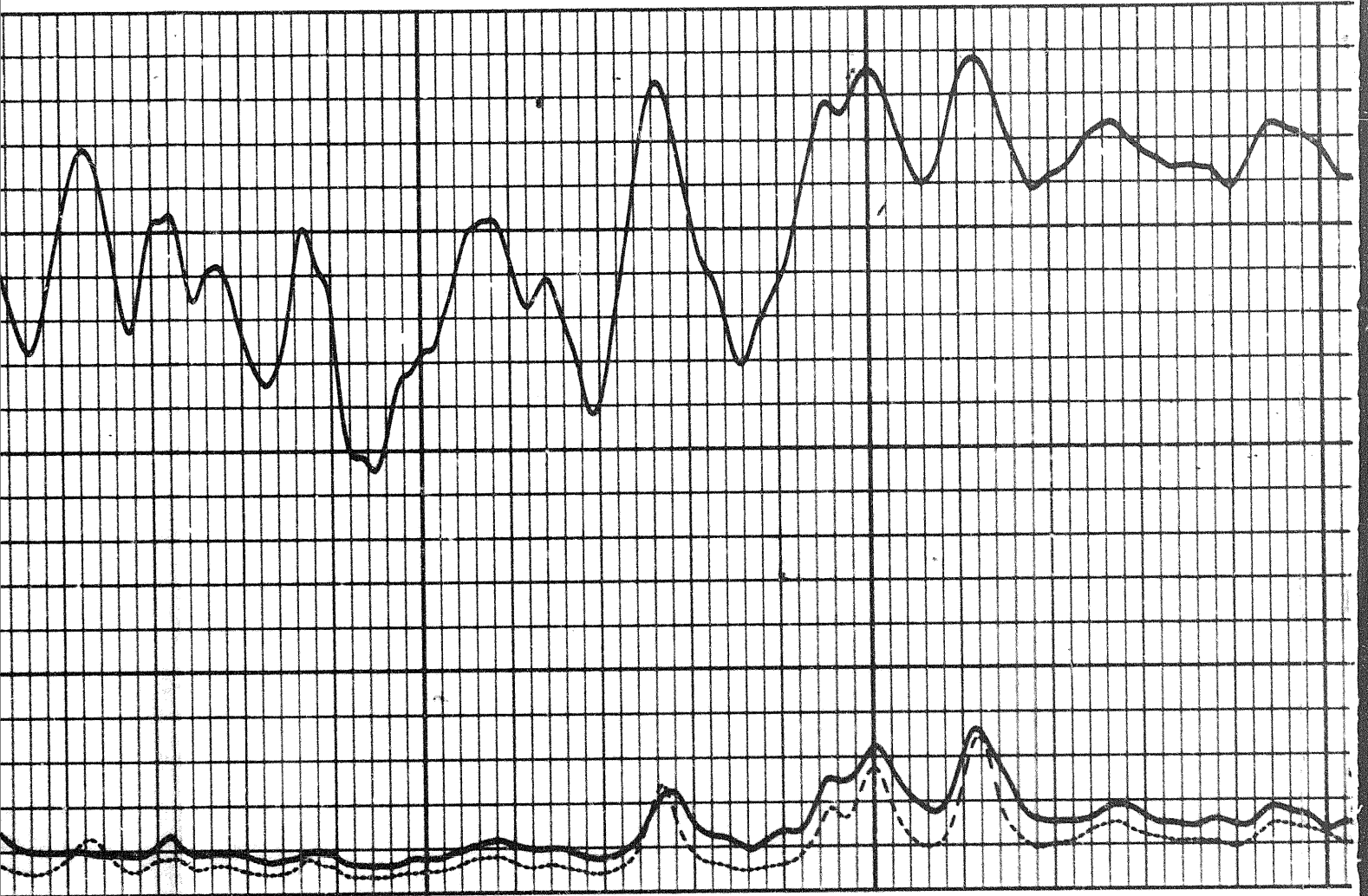




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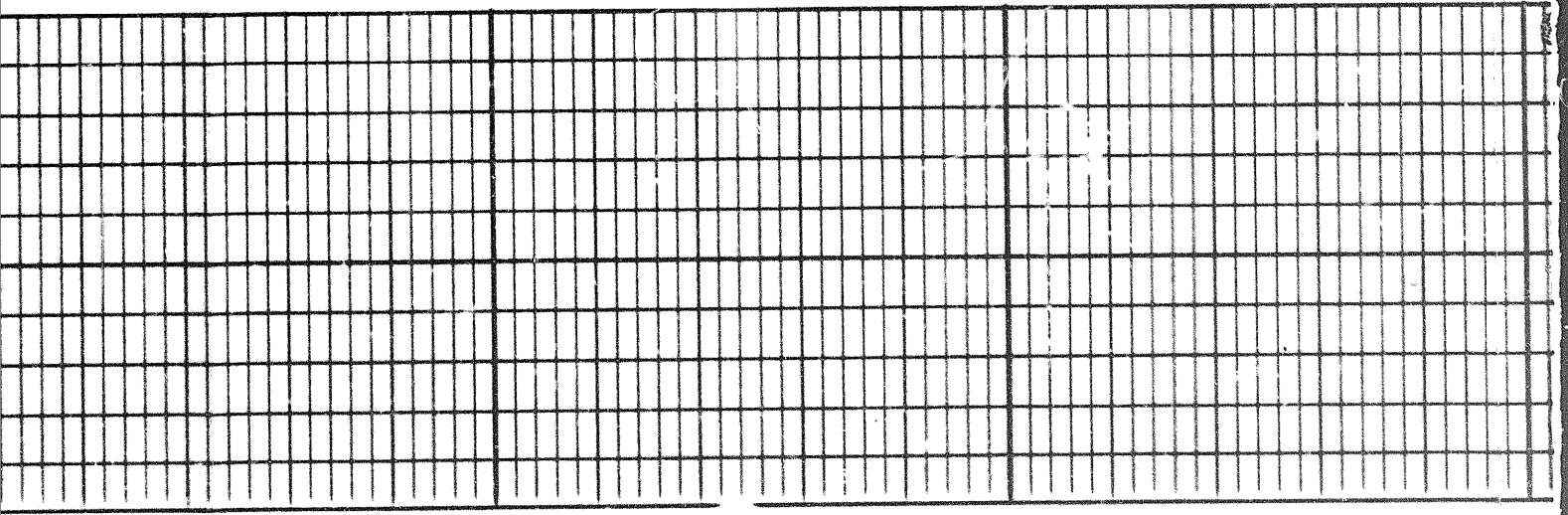
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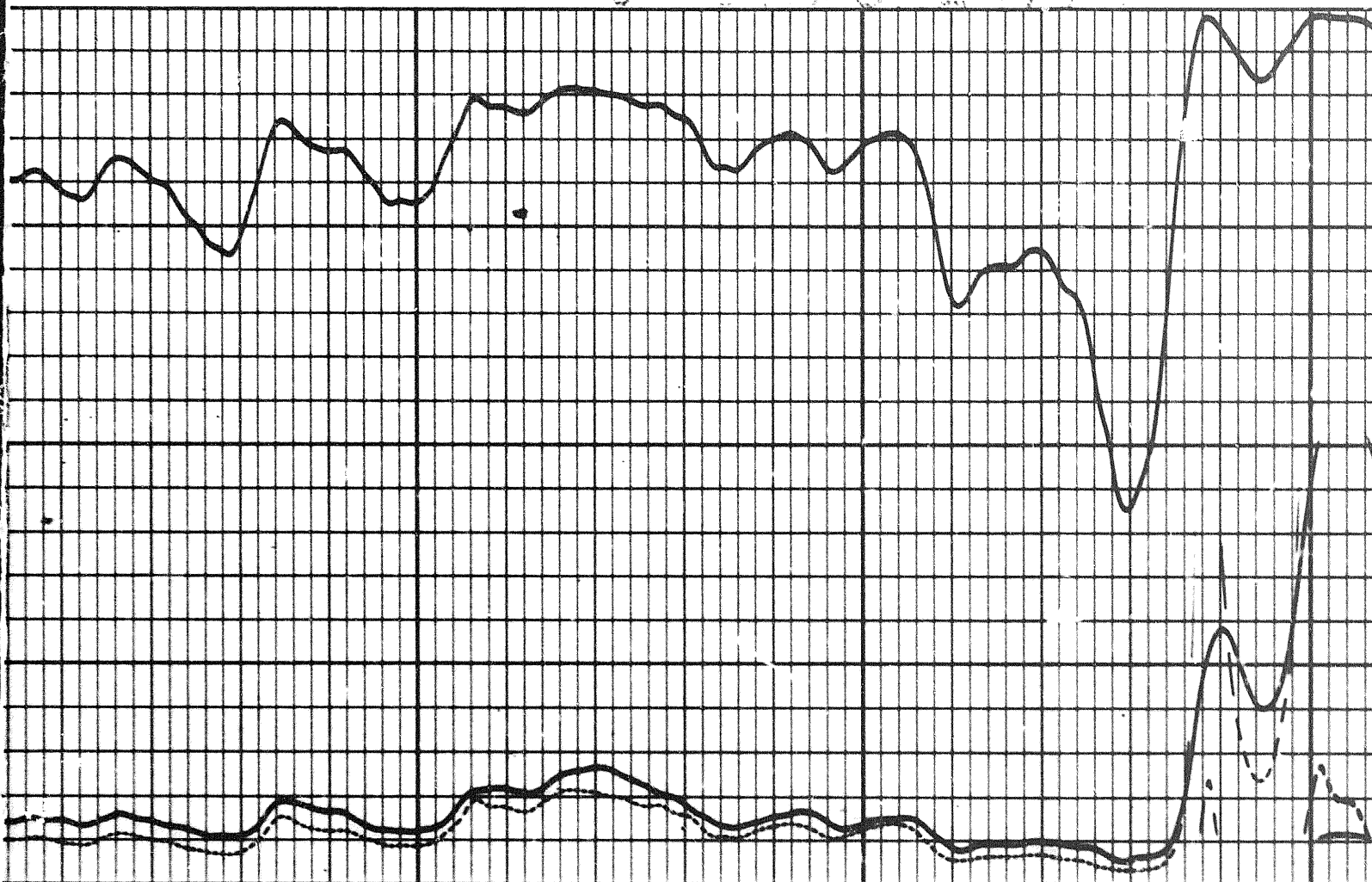


8600

870

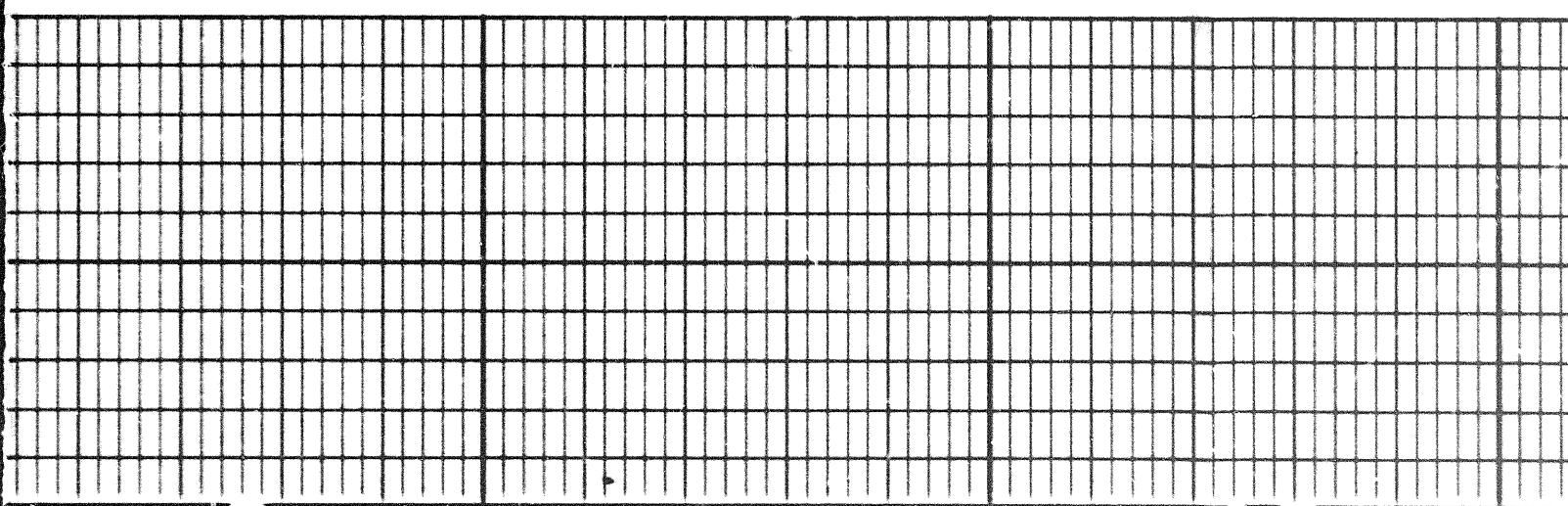


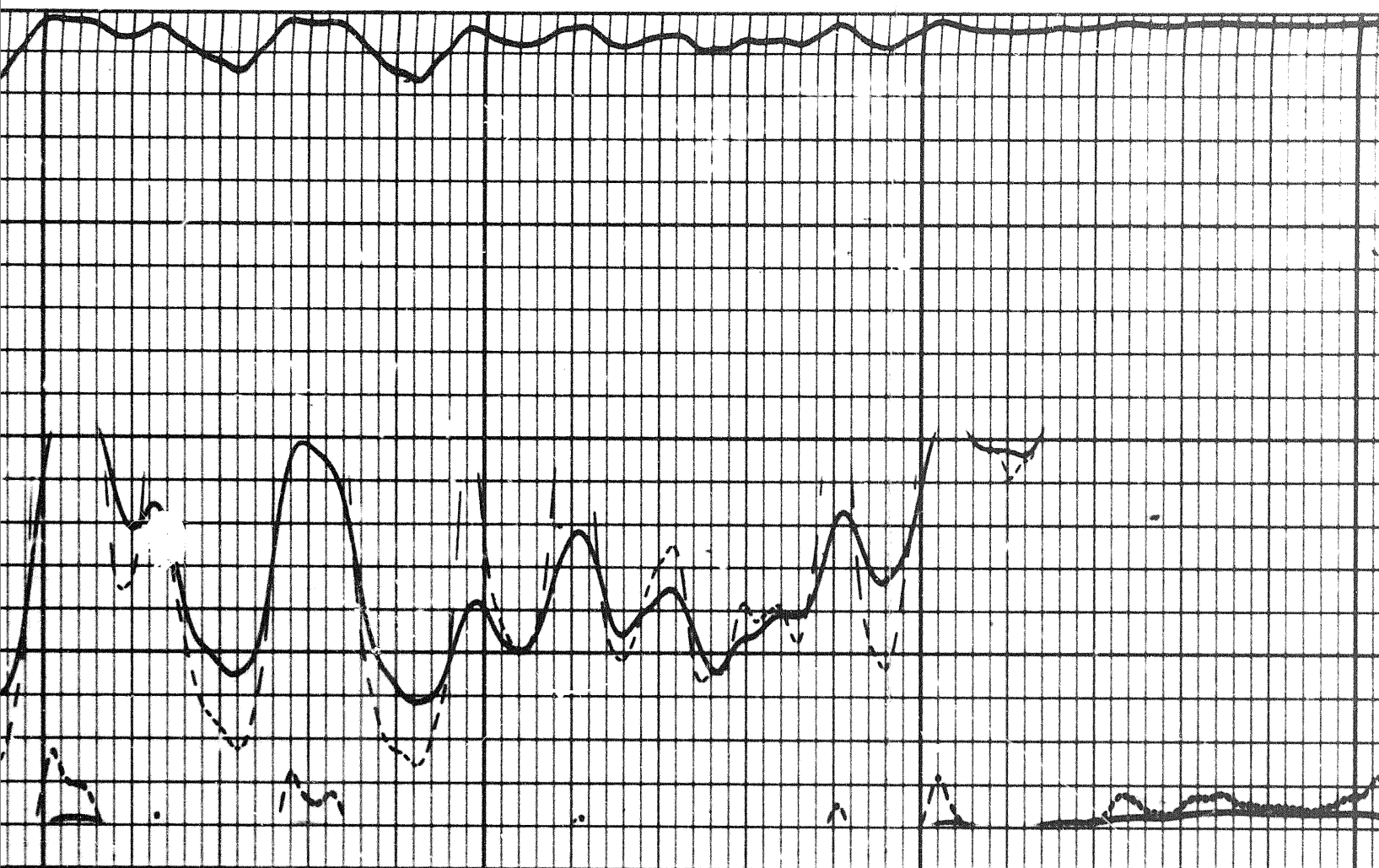
11-01-3080-2477



2

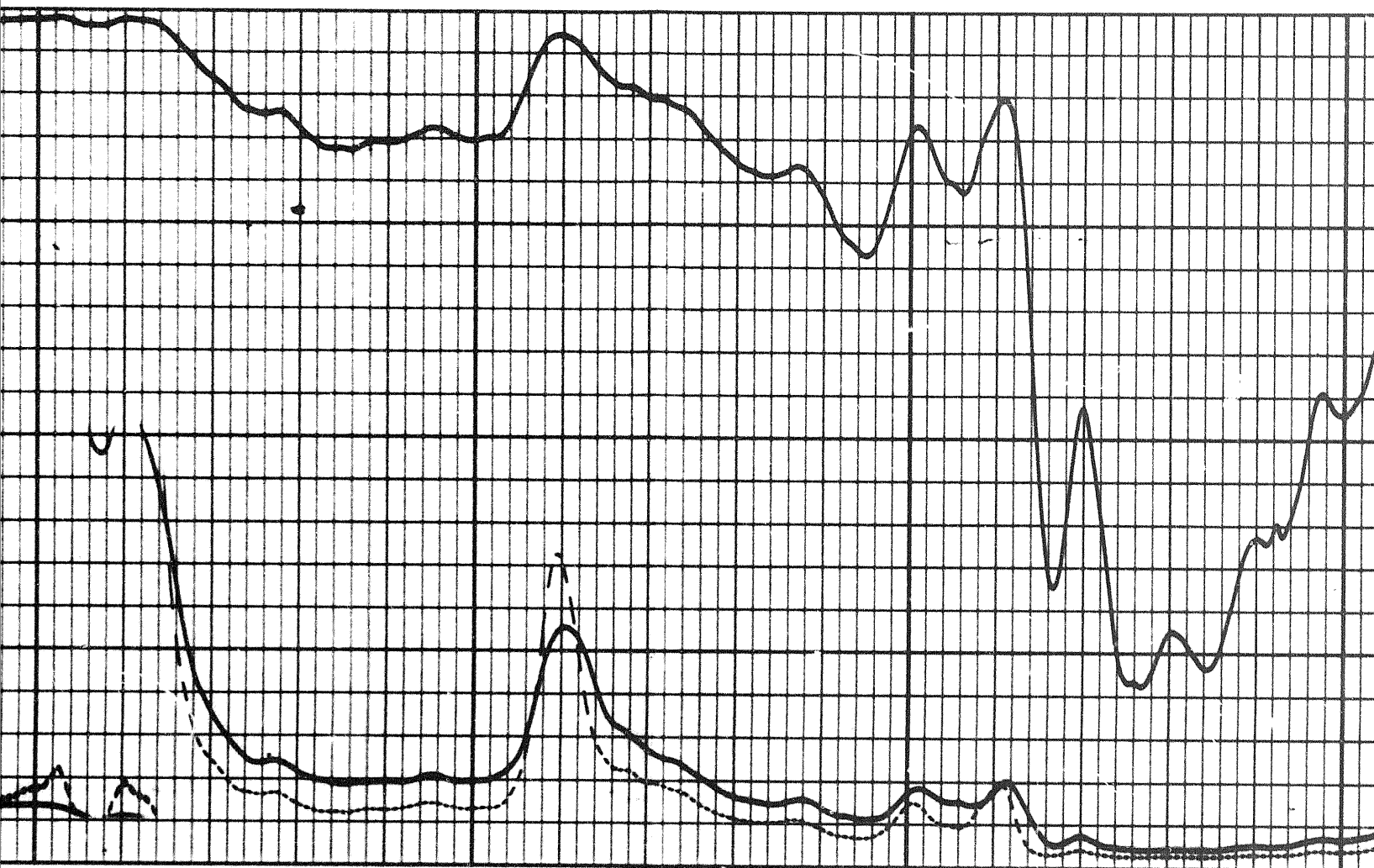
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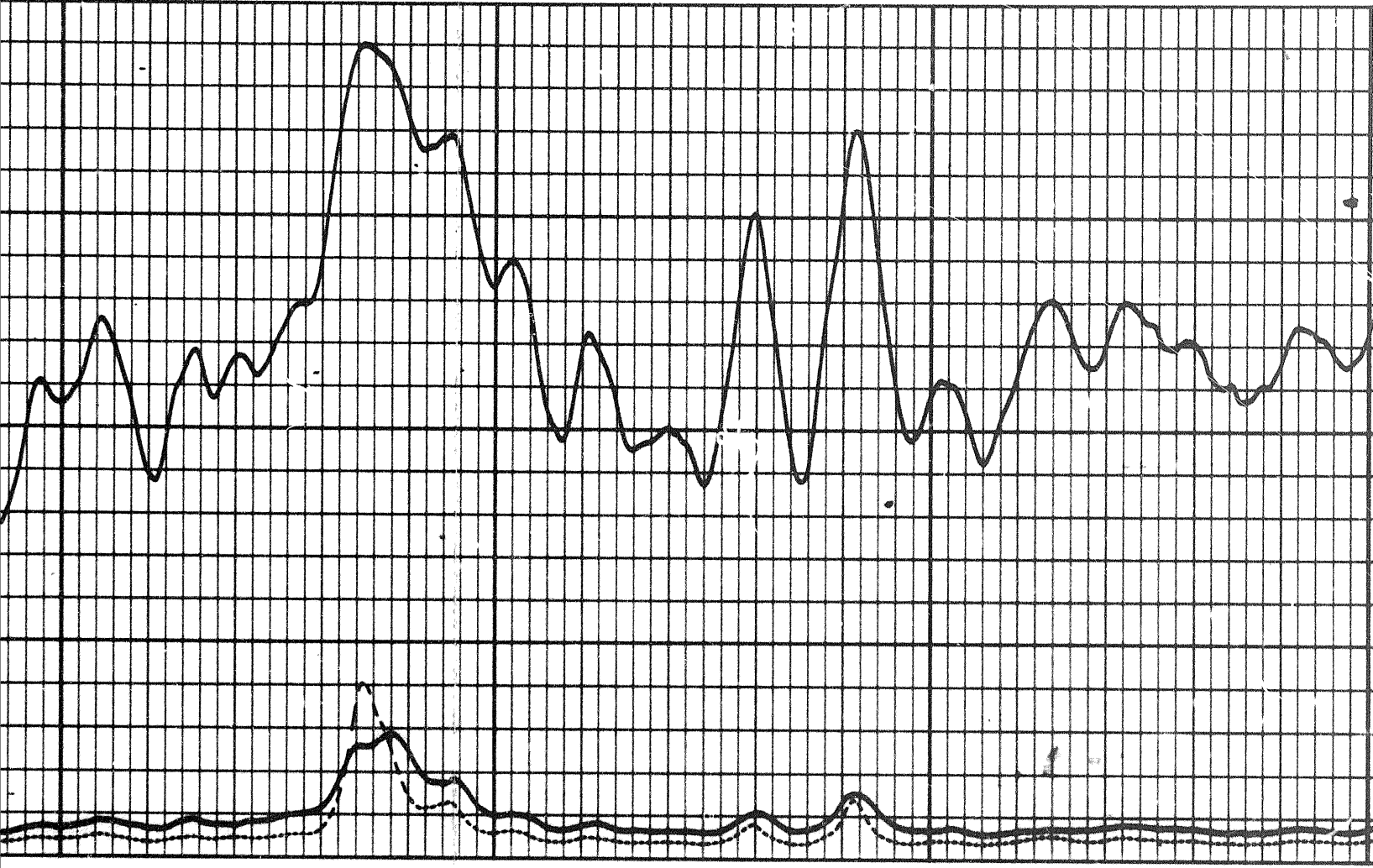
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9000



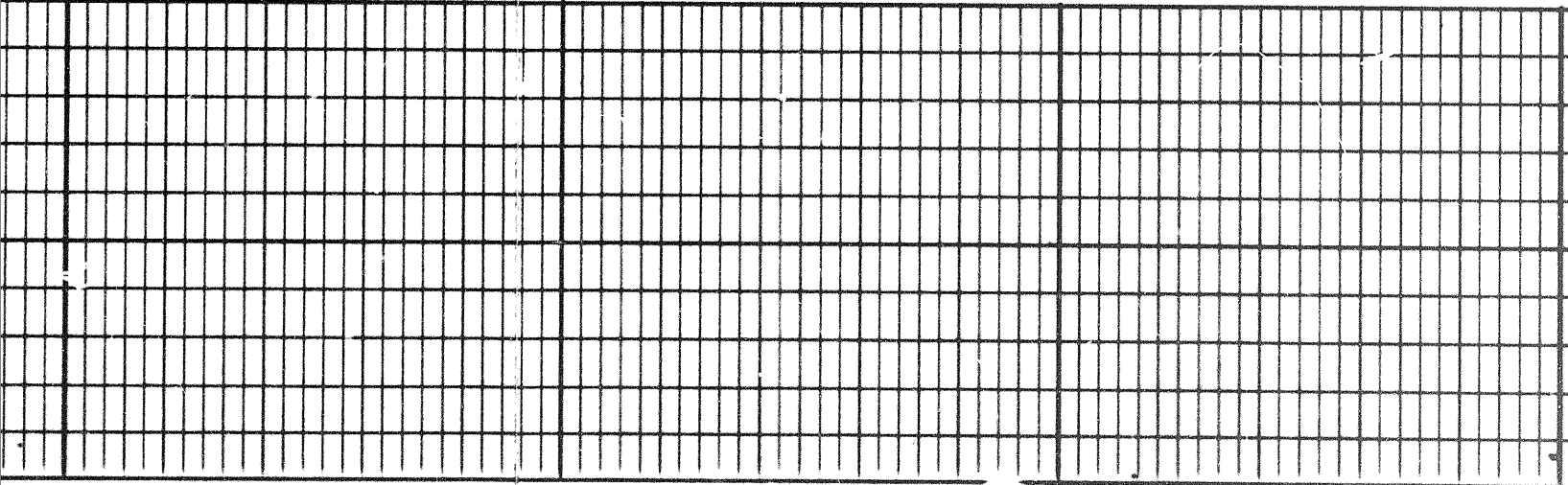
9000

9100

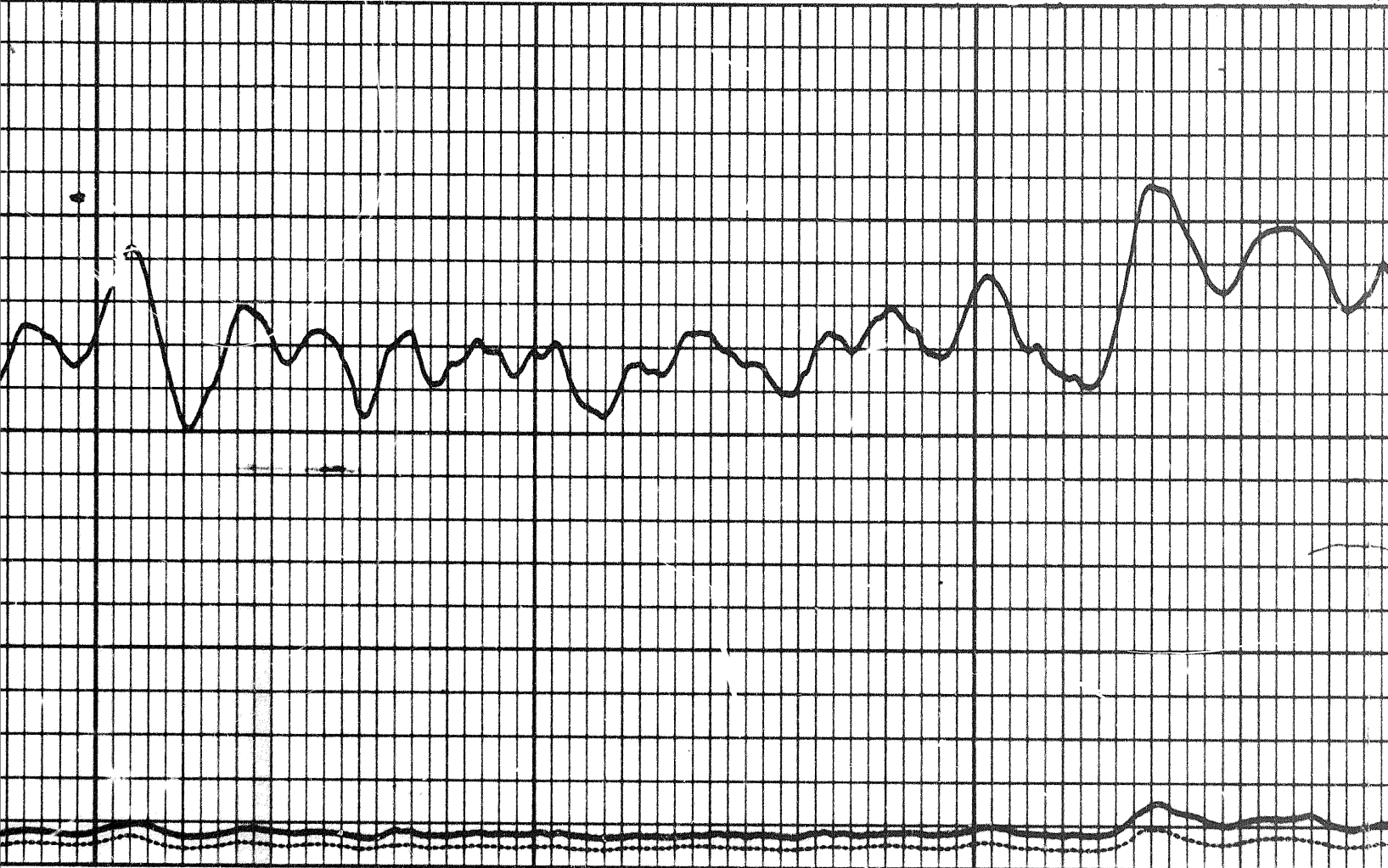


9200

93

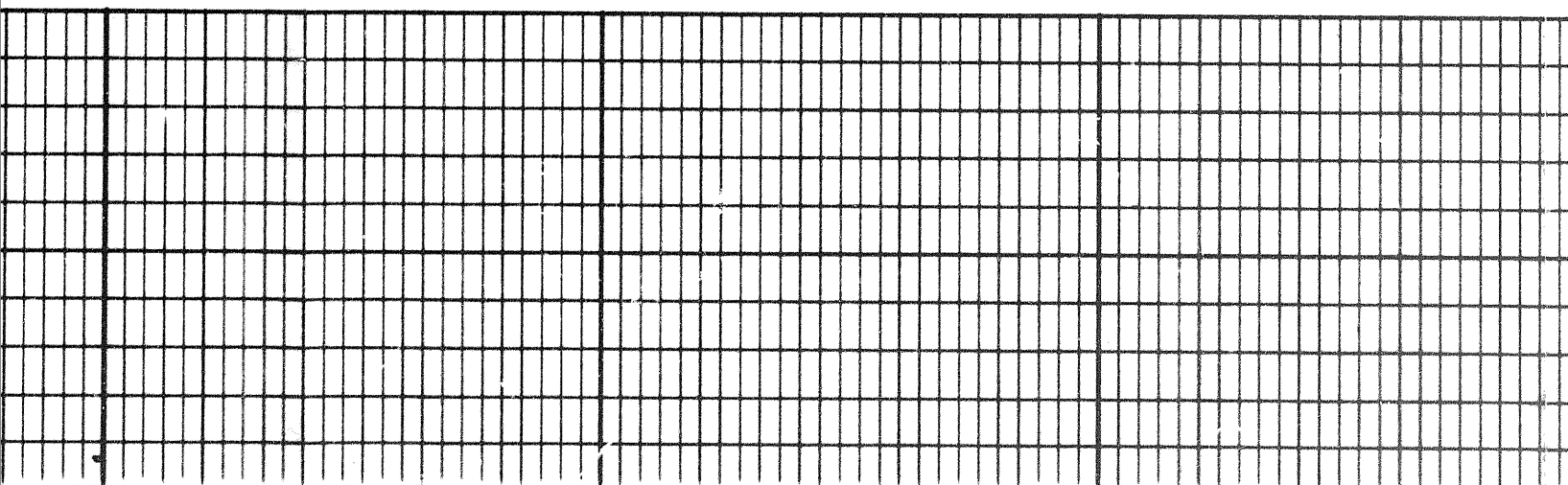


9300-9400 0 0 5

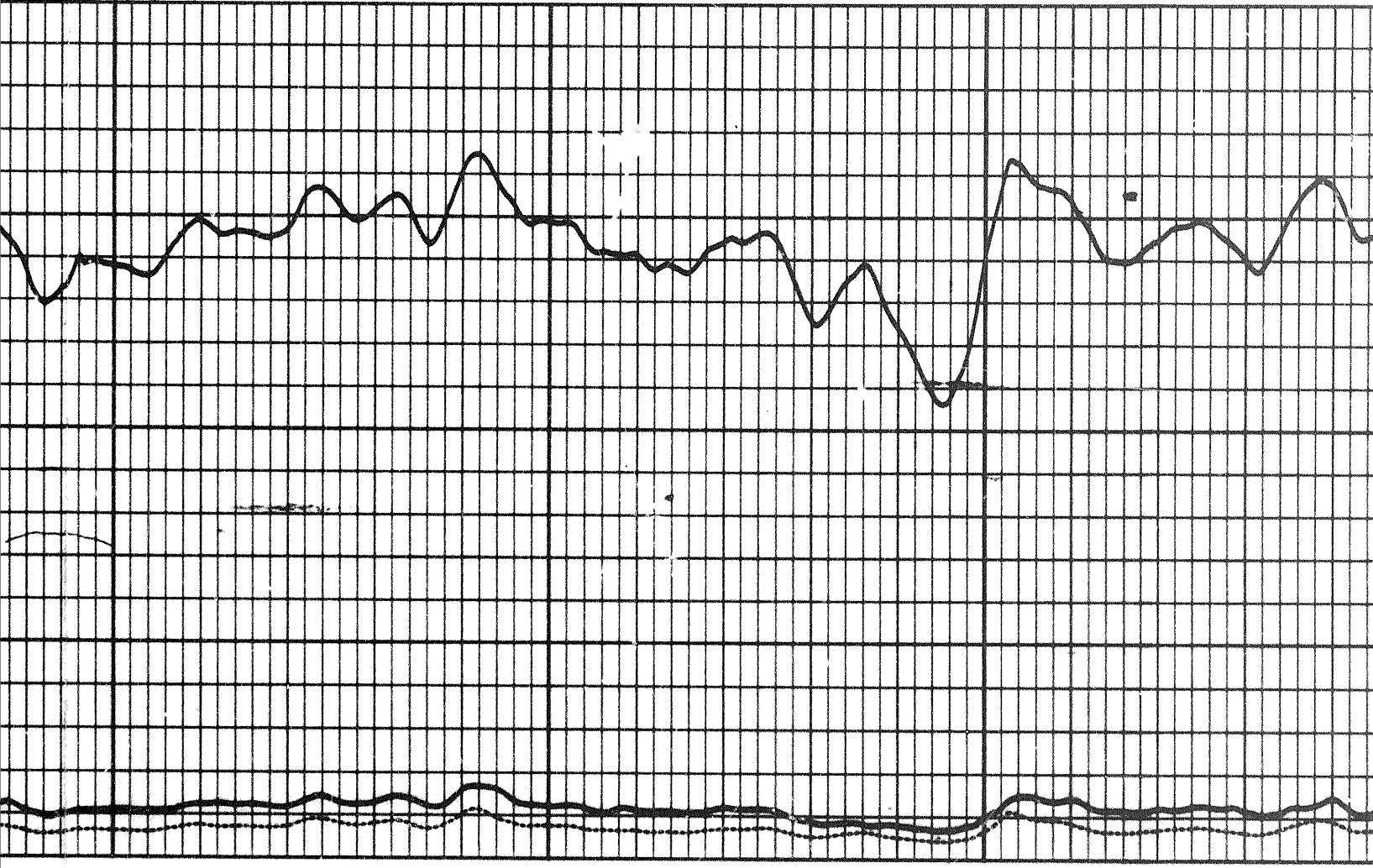


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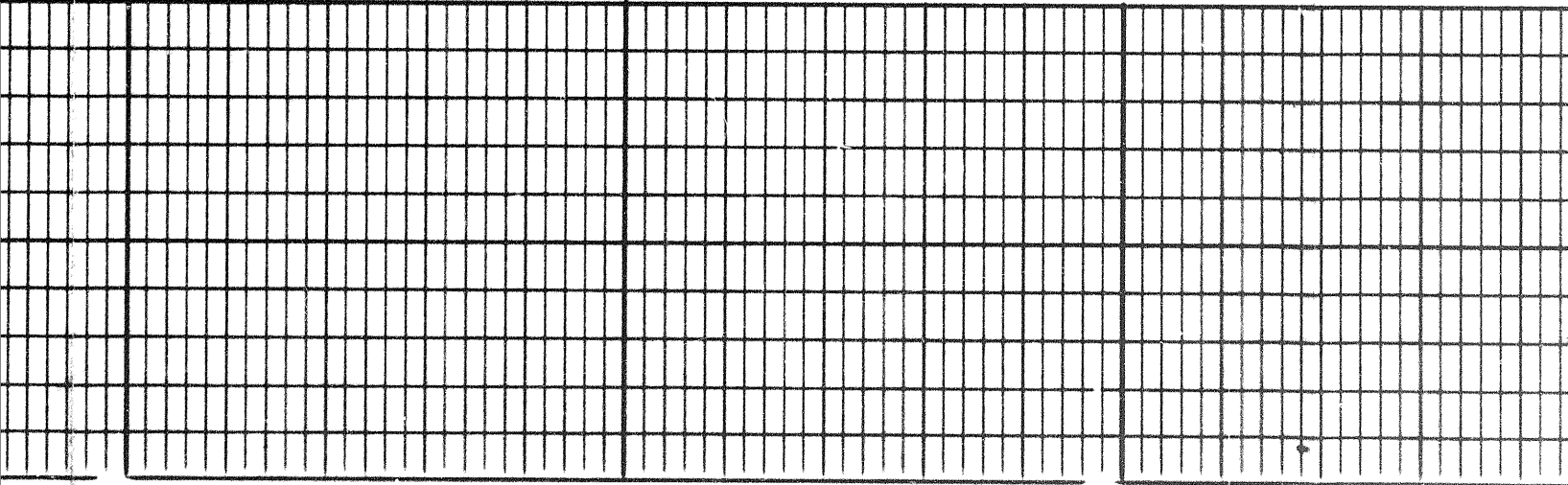
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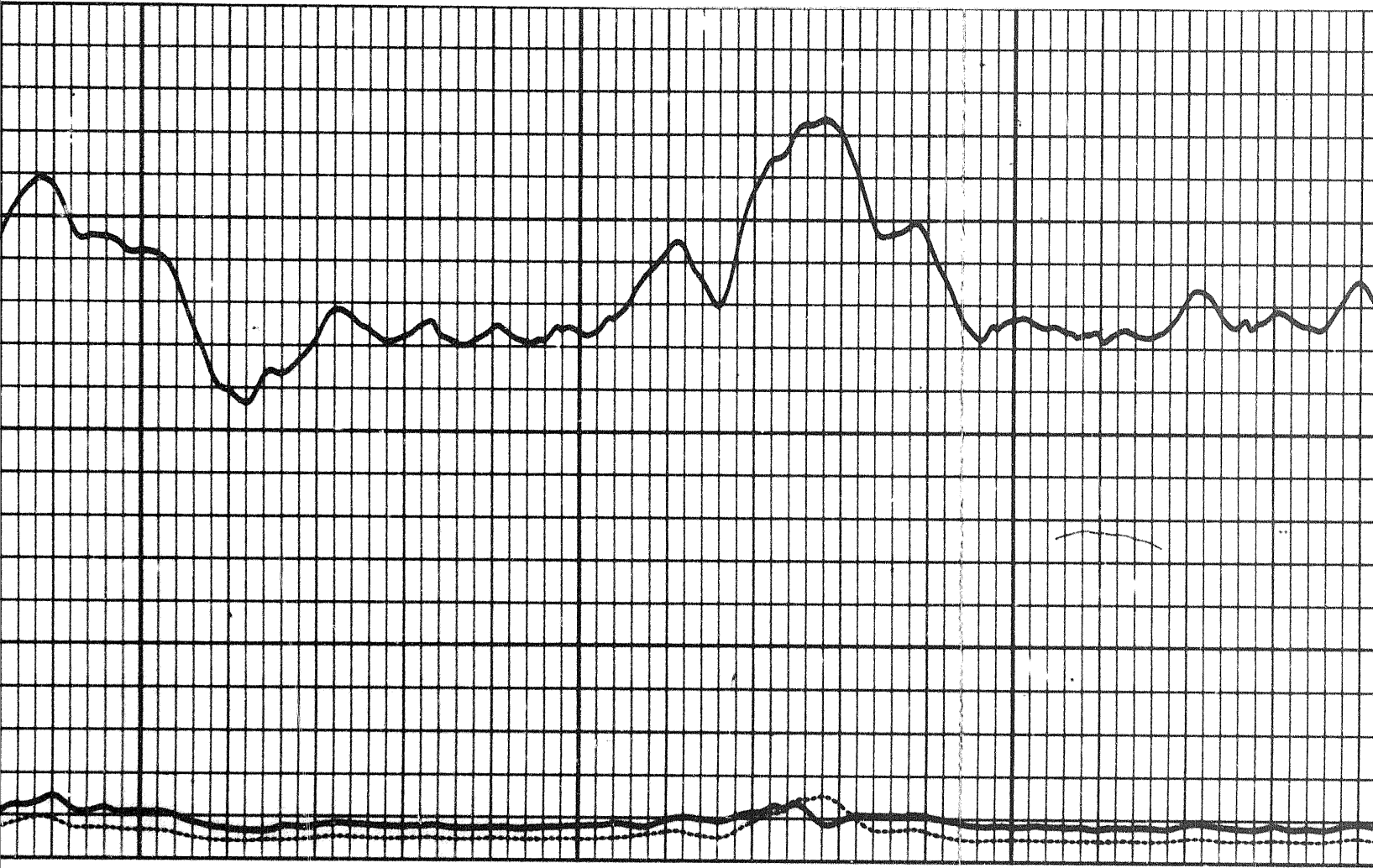


12477



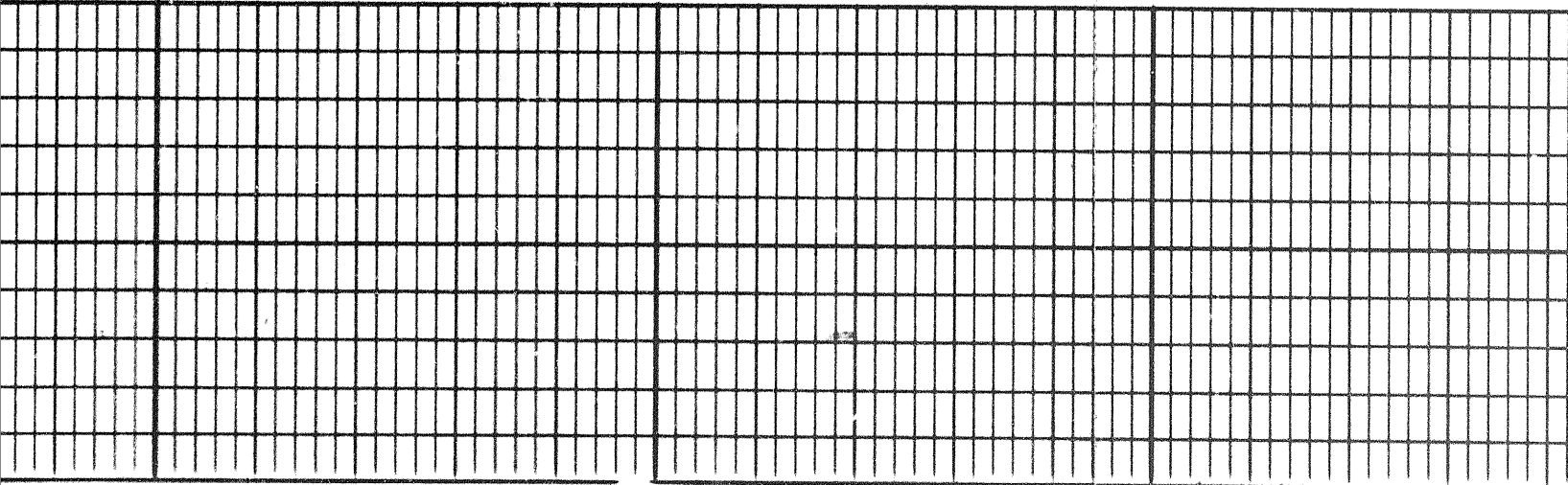
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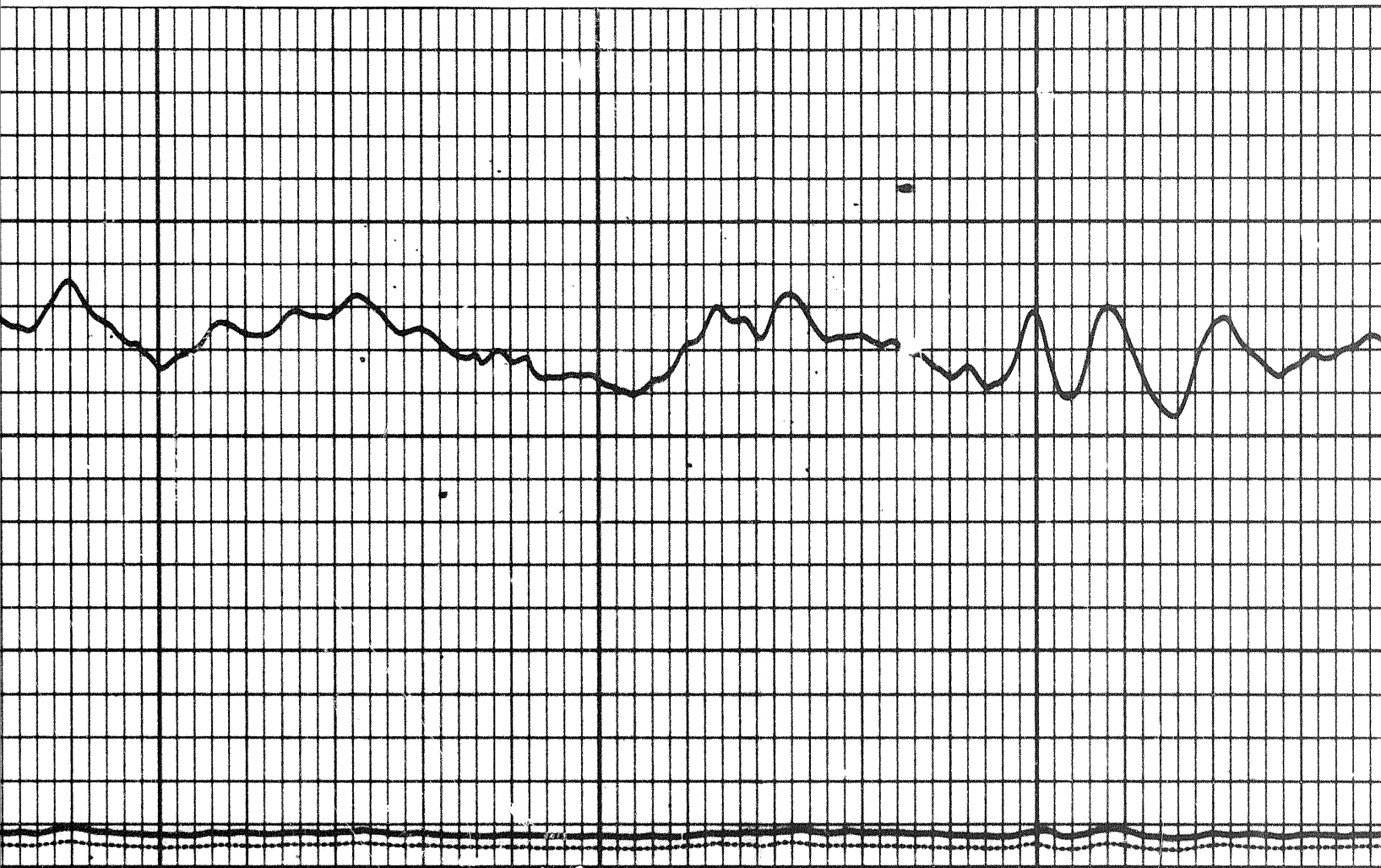




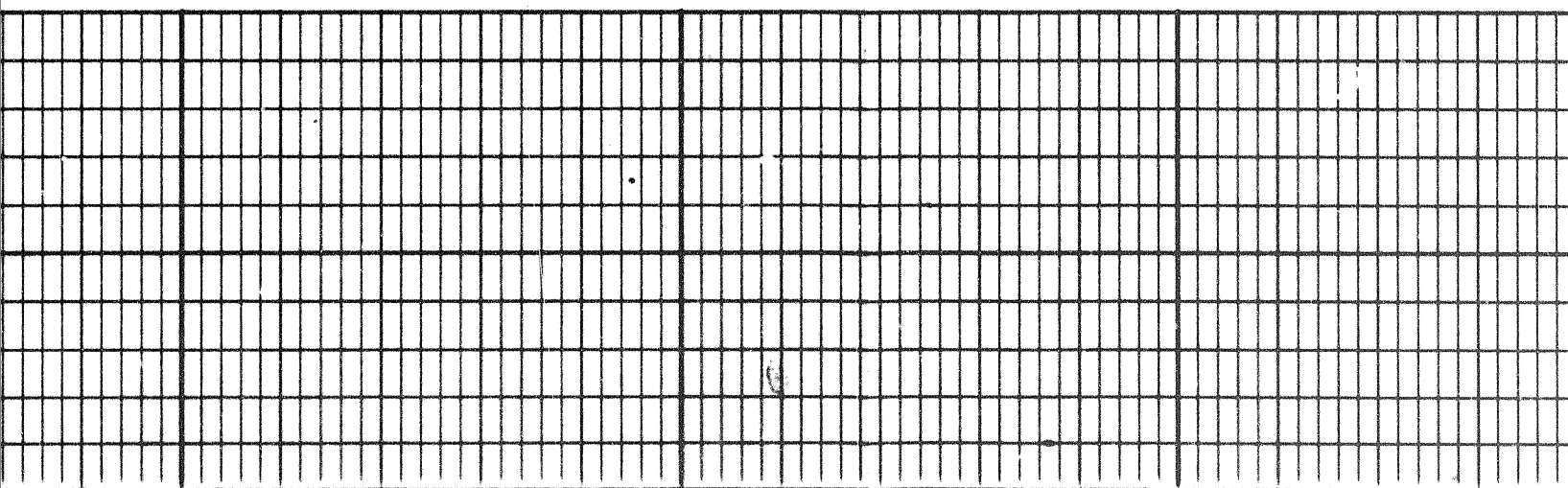
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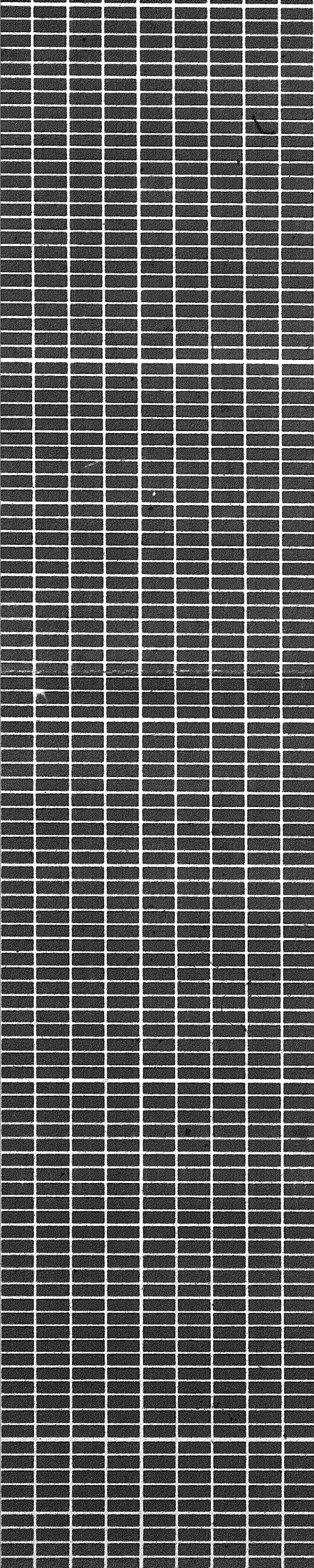
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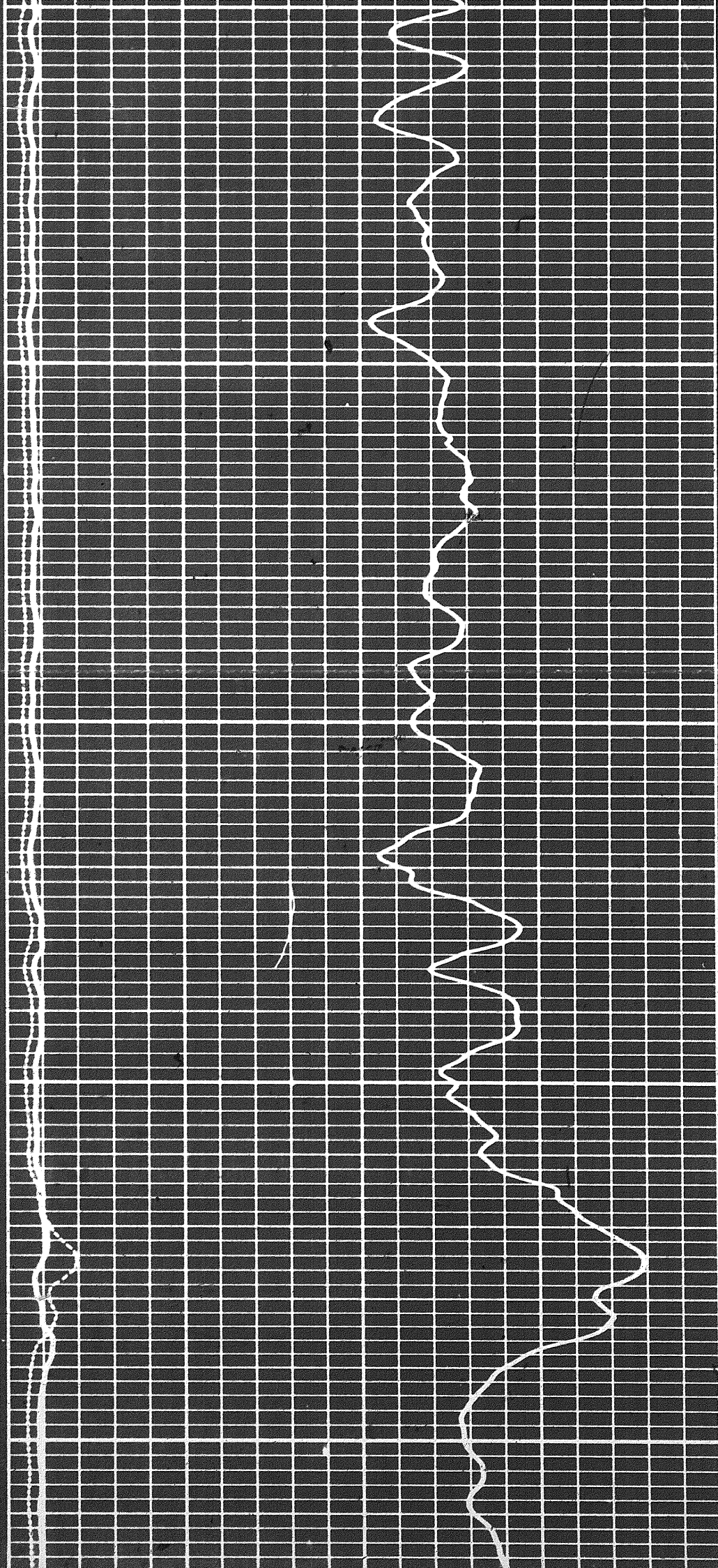
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0066

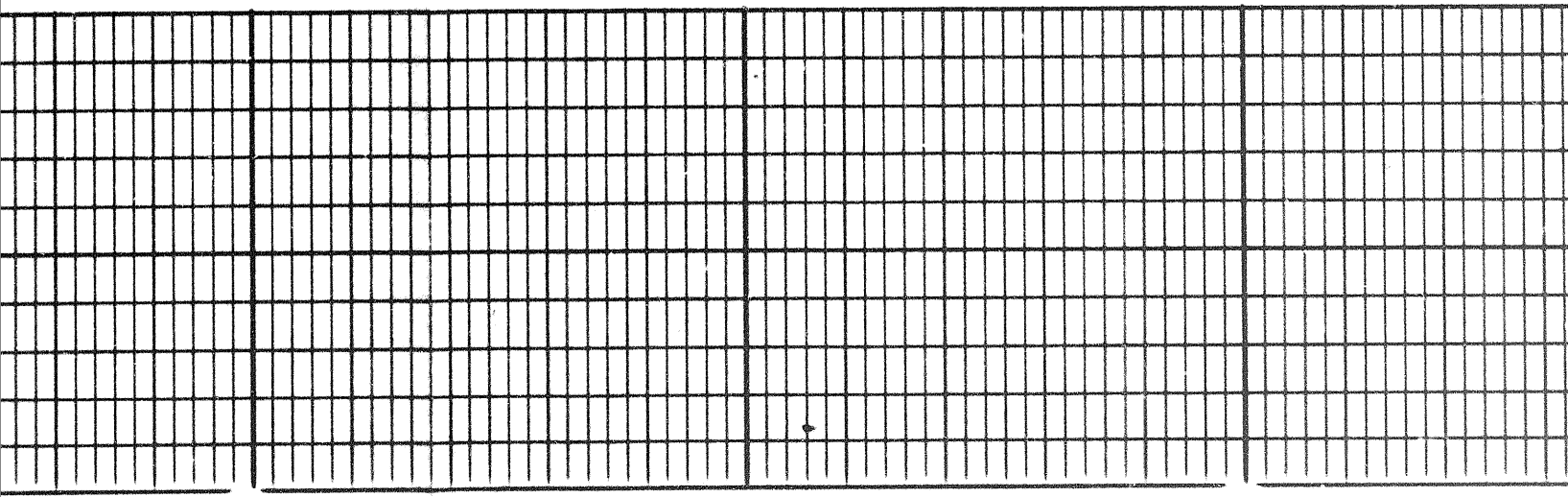
10001



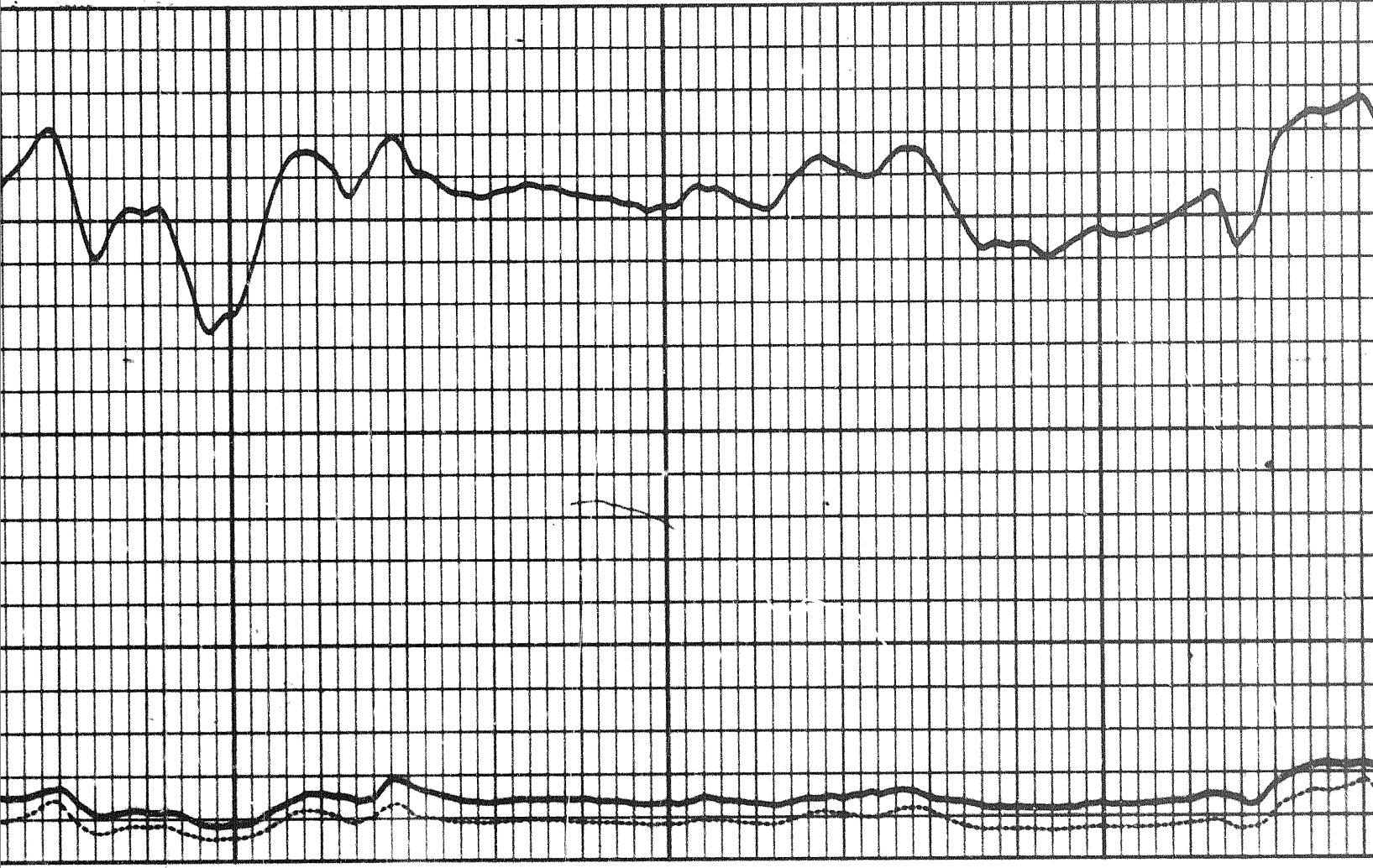
2177



1000

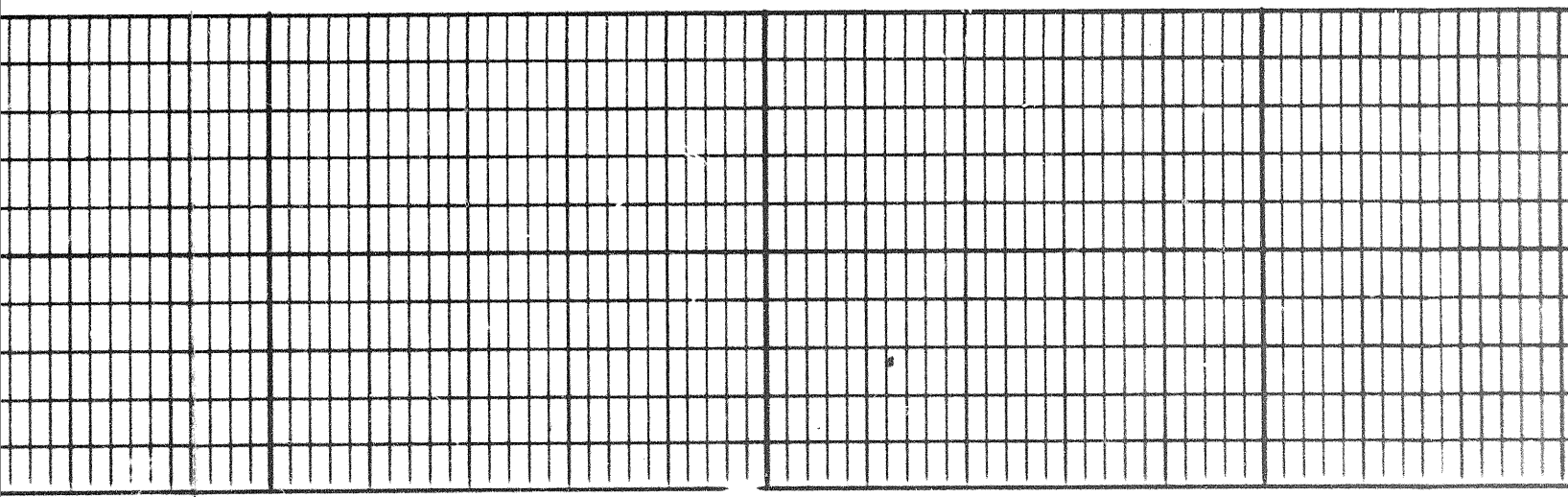


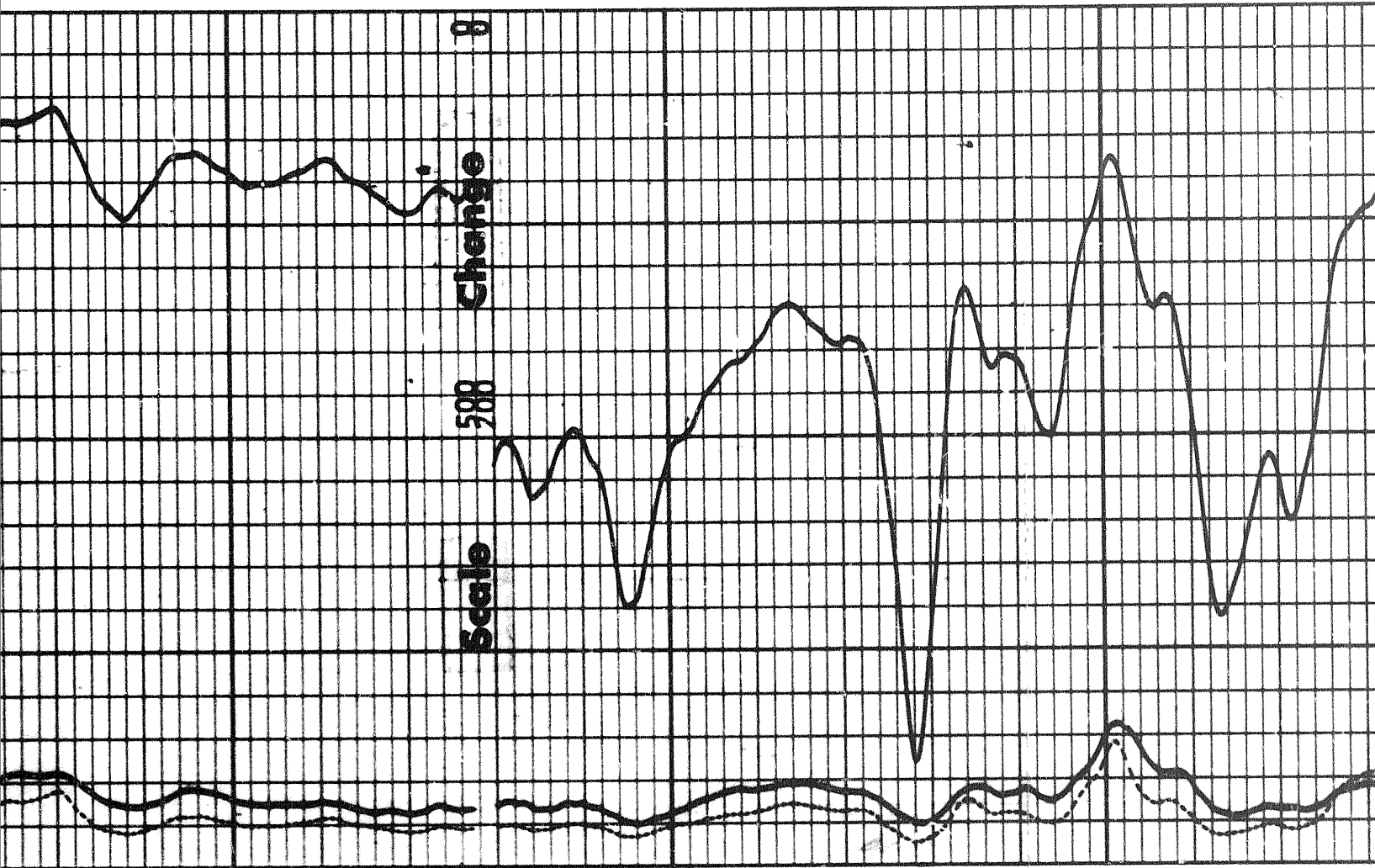
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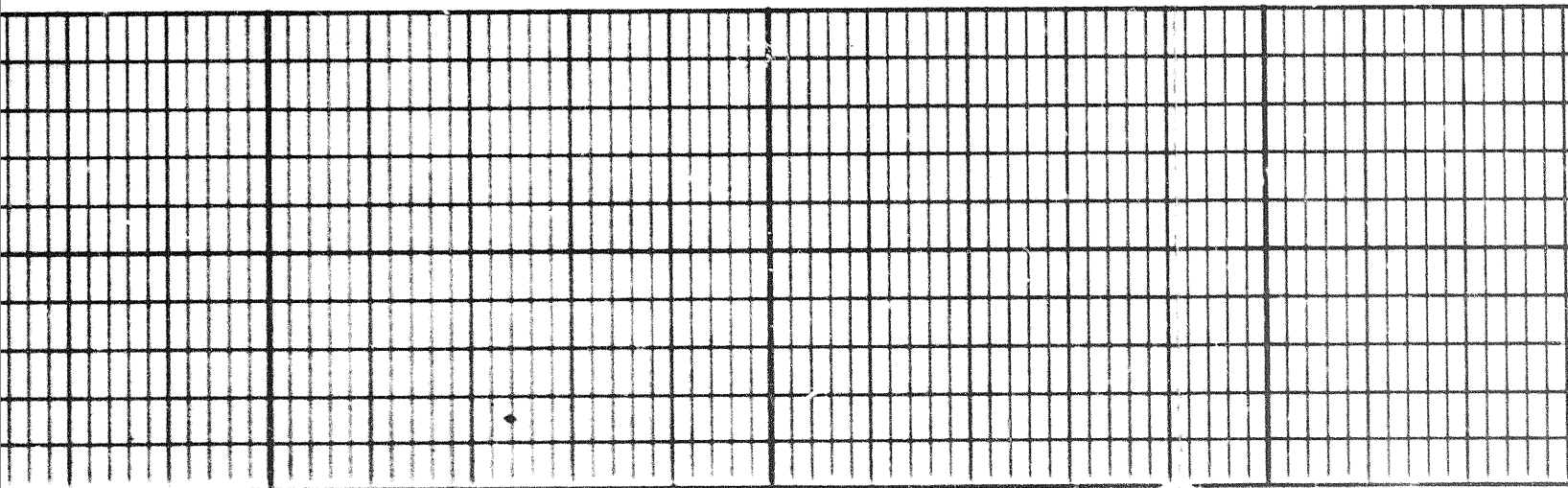
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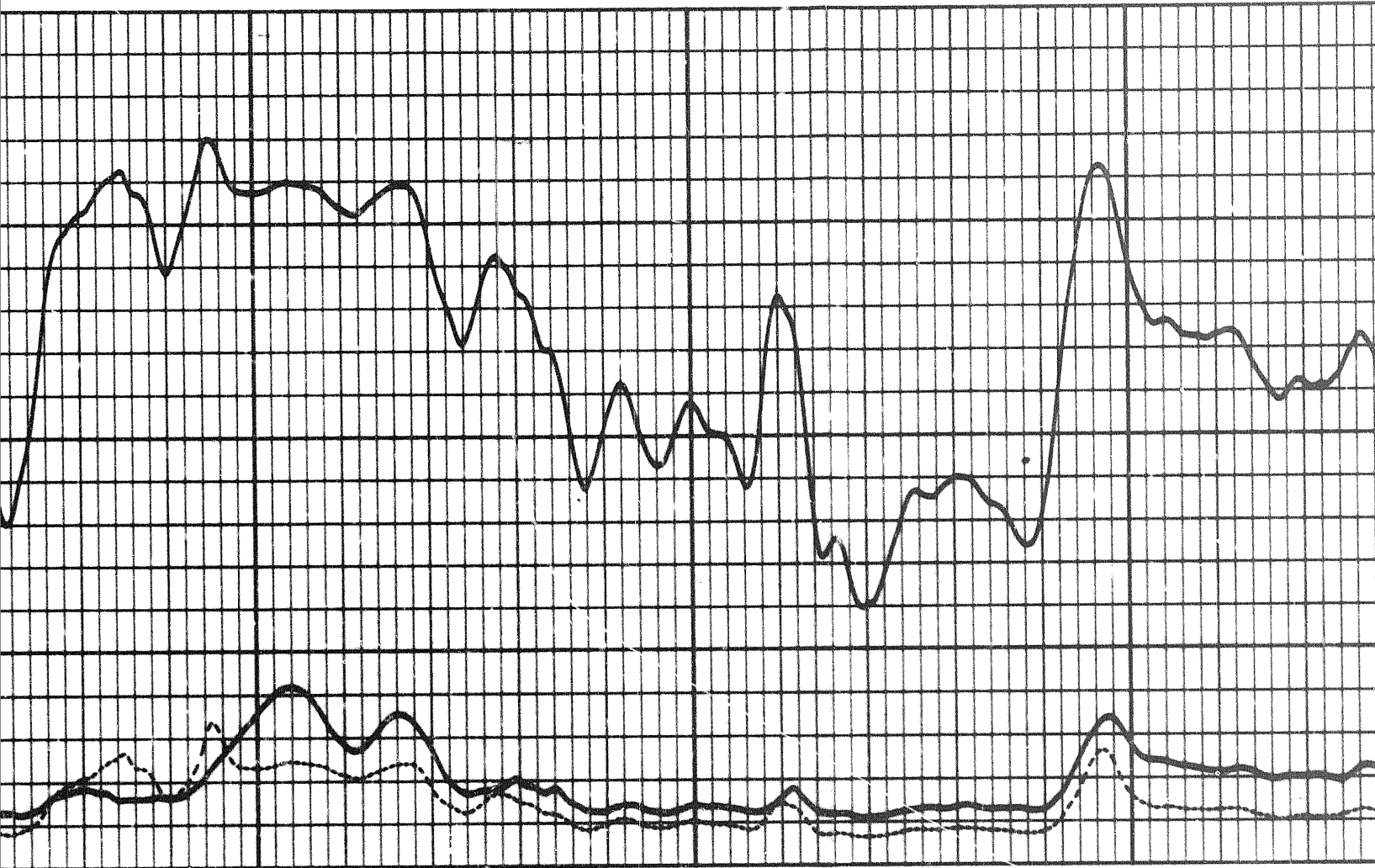
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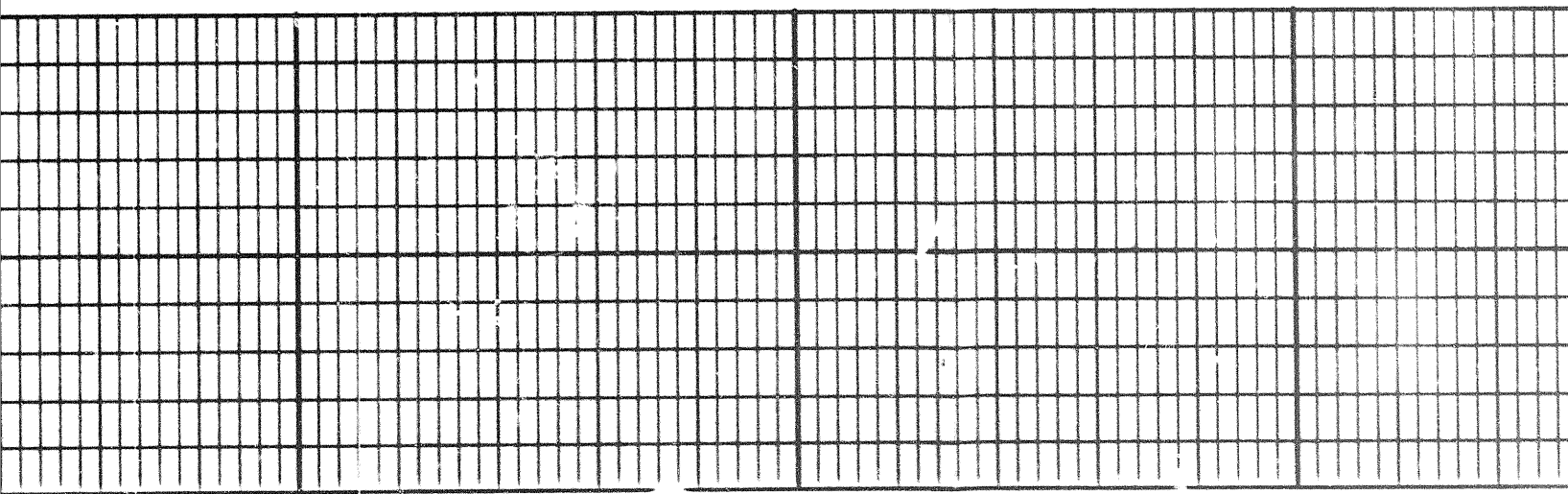
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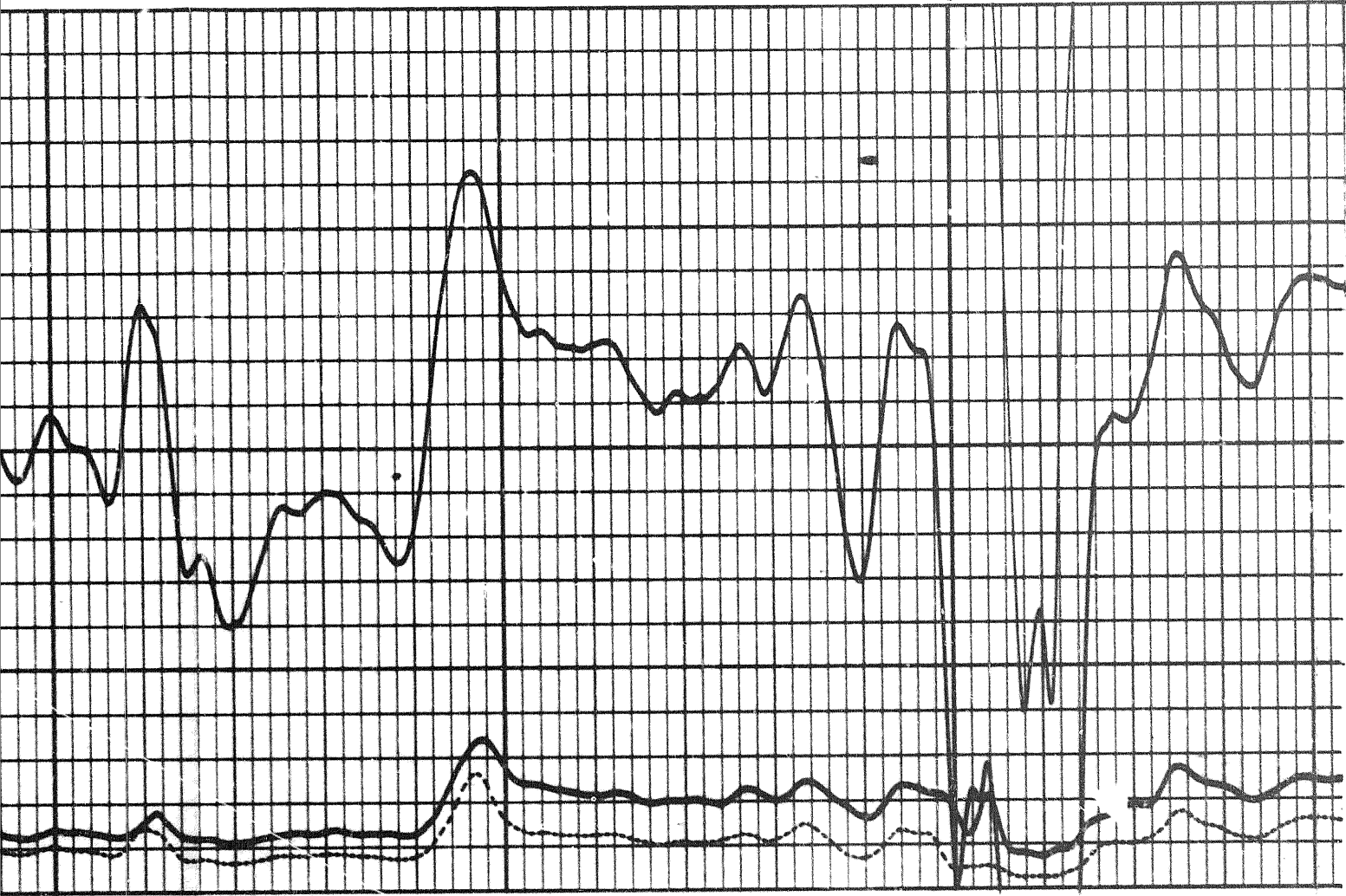




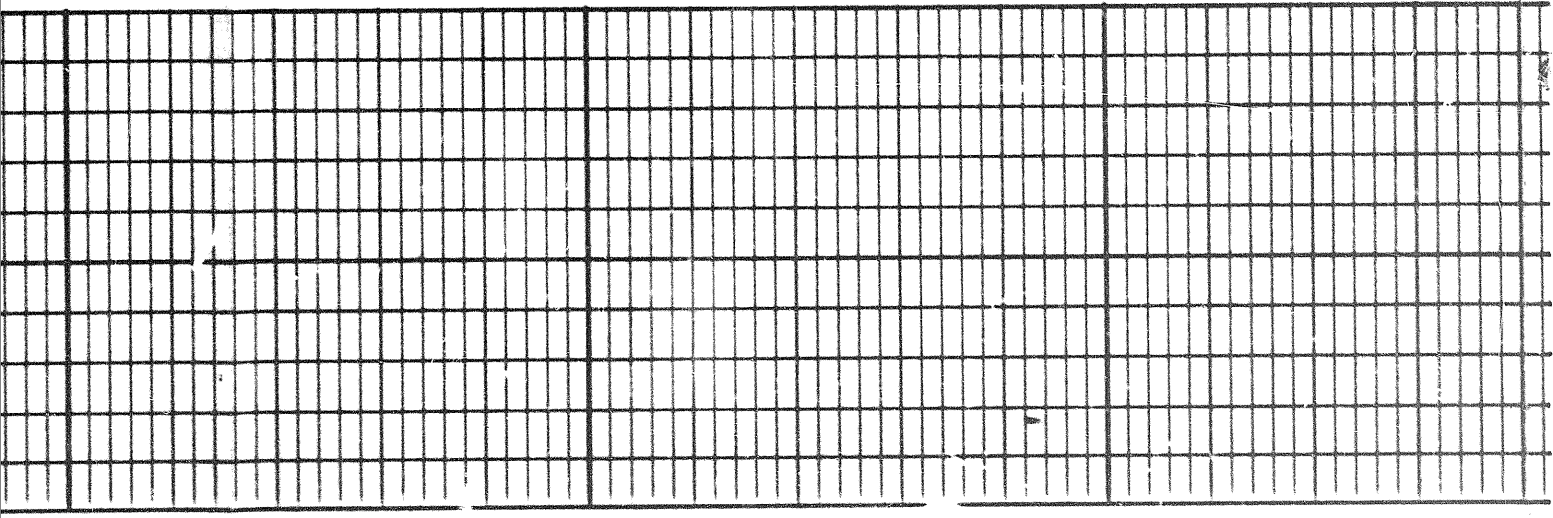
10500

10600





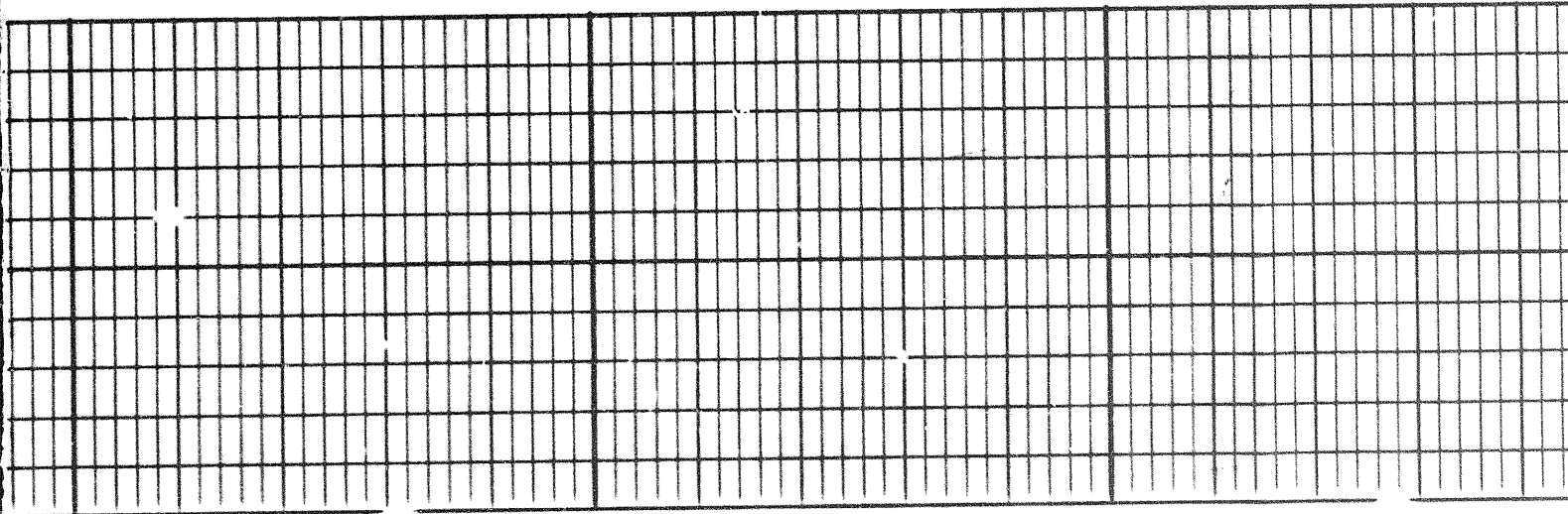
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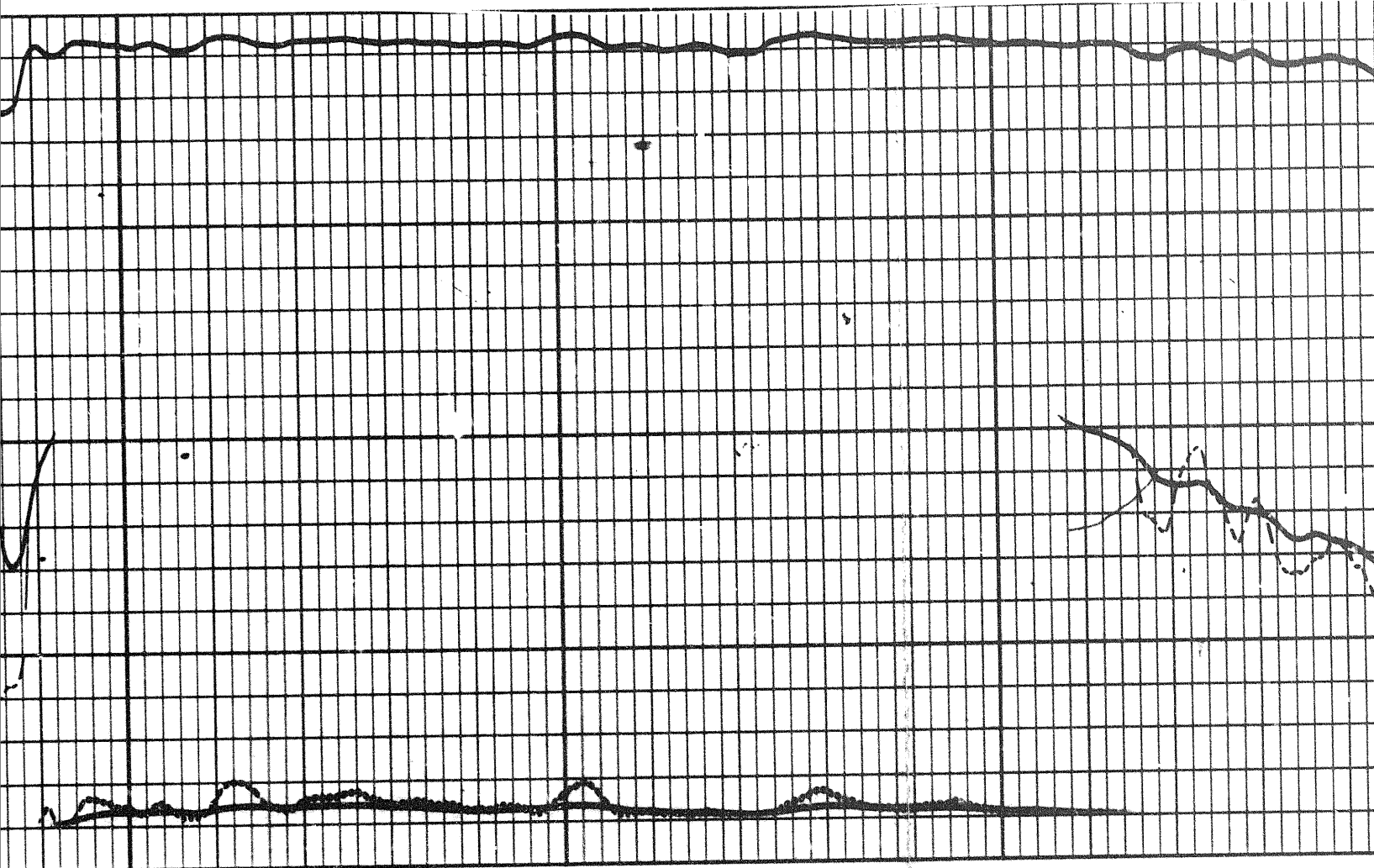




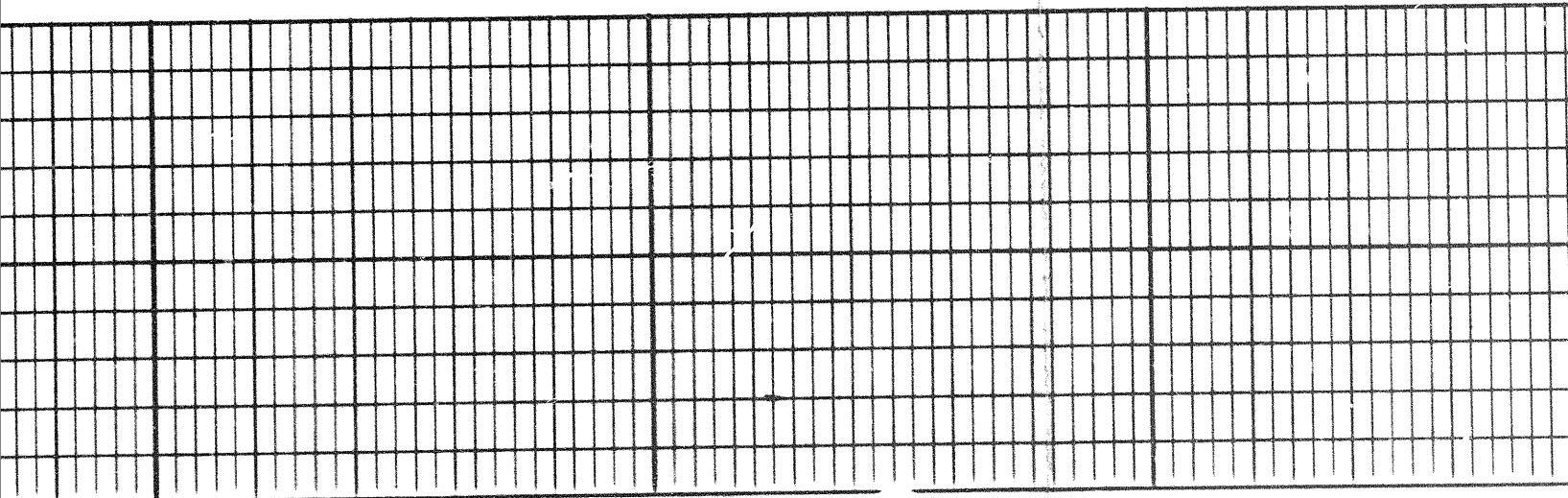
10700

10800

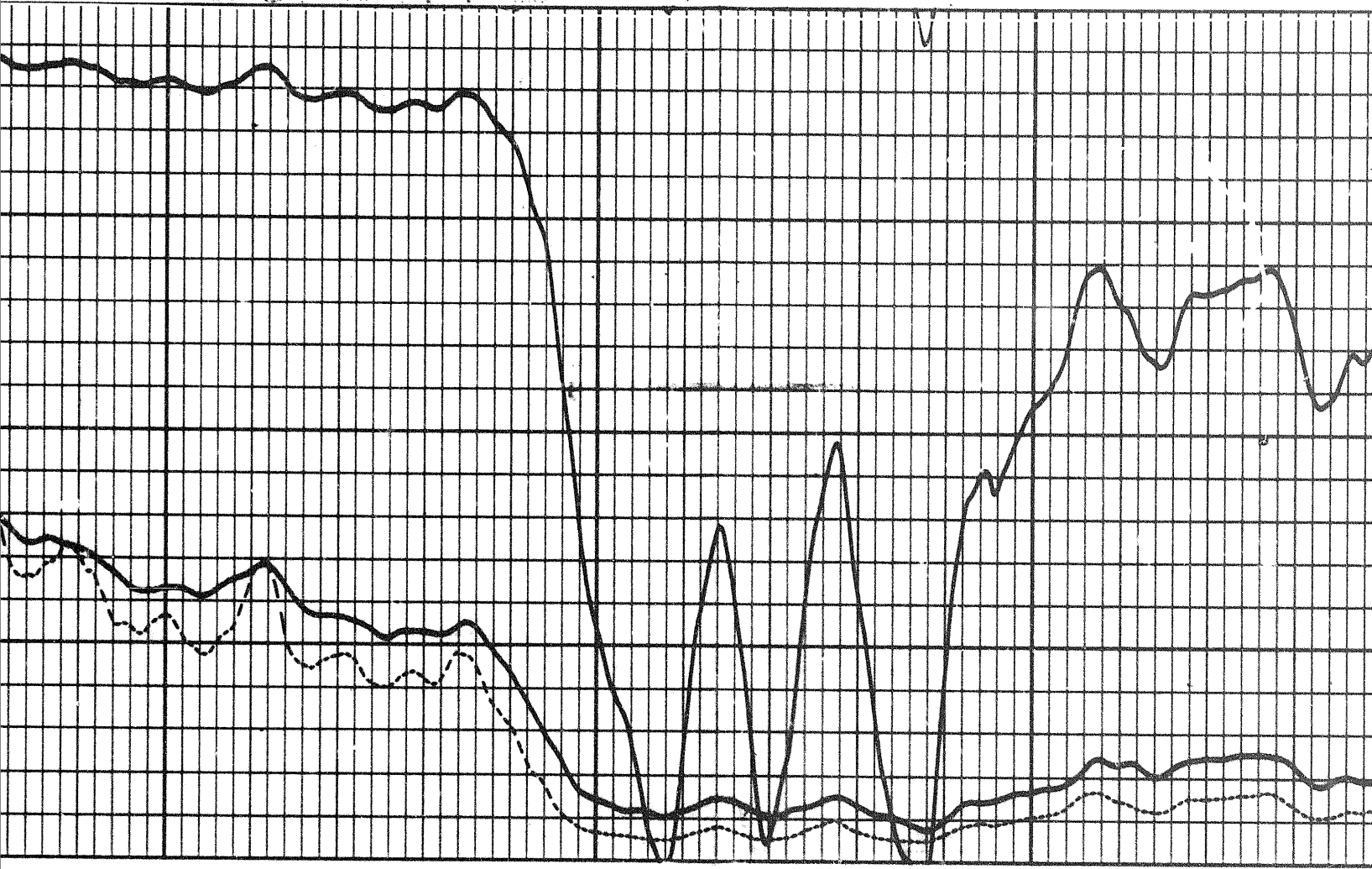




10900

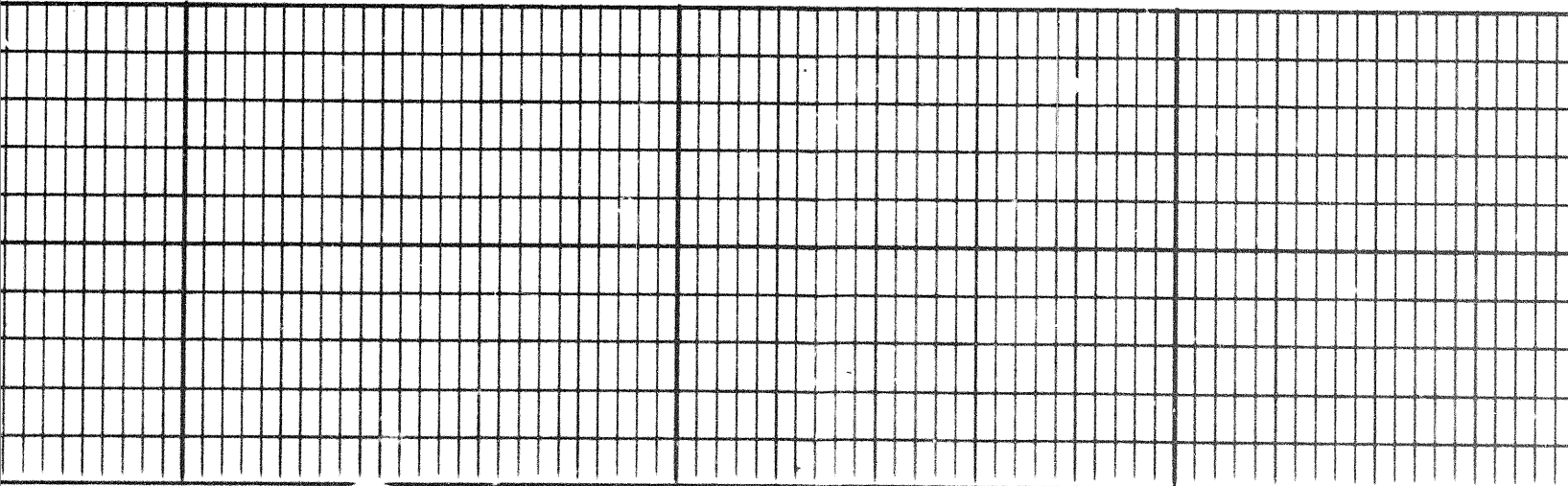


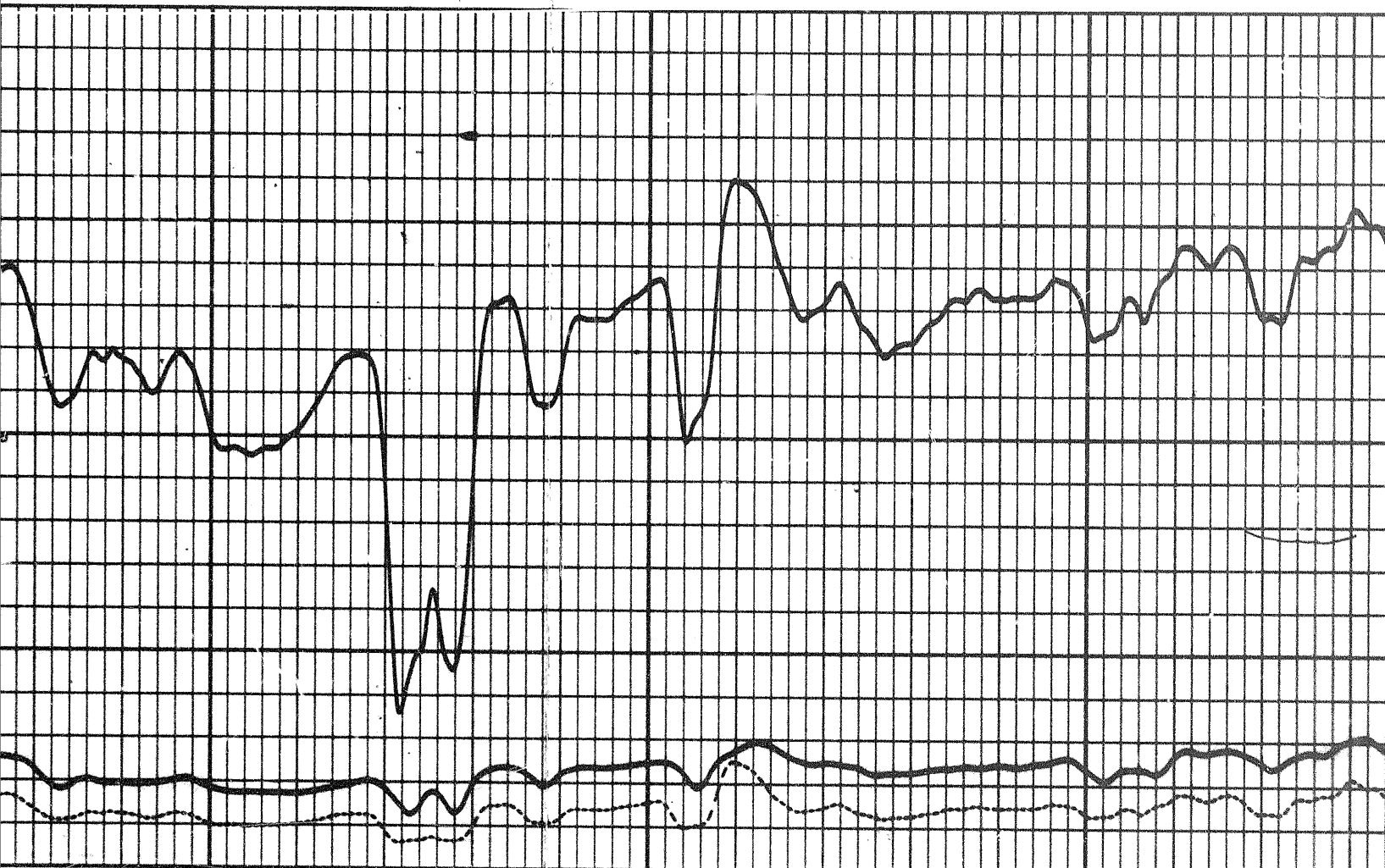
01-3118 072477



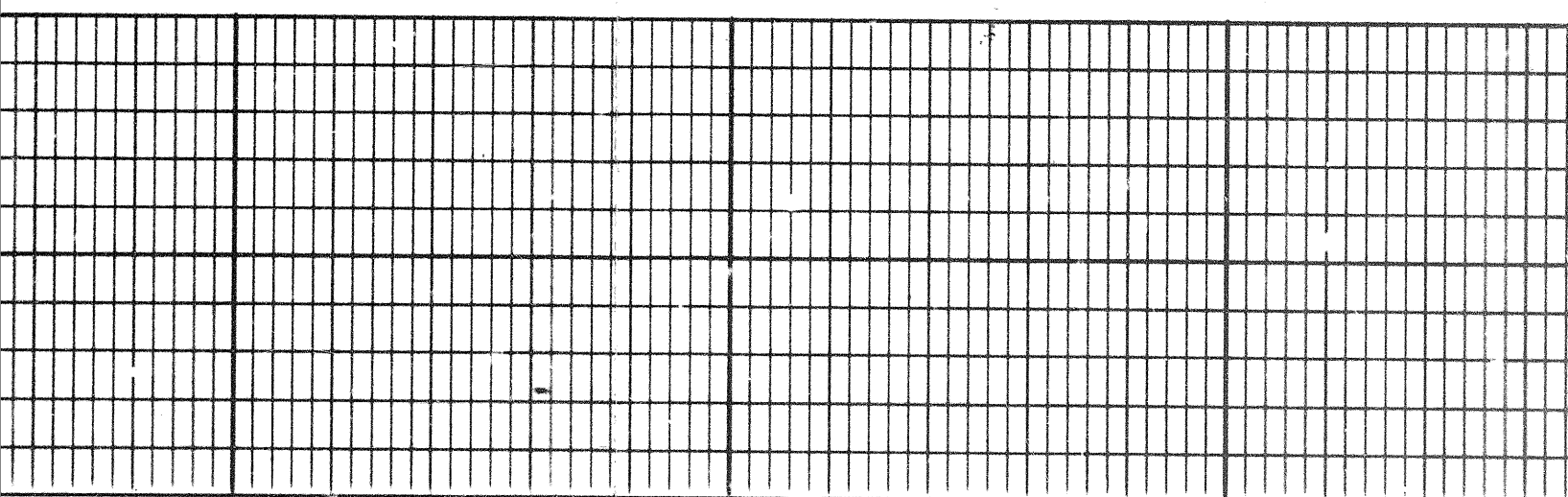
11000

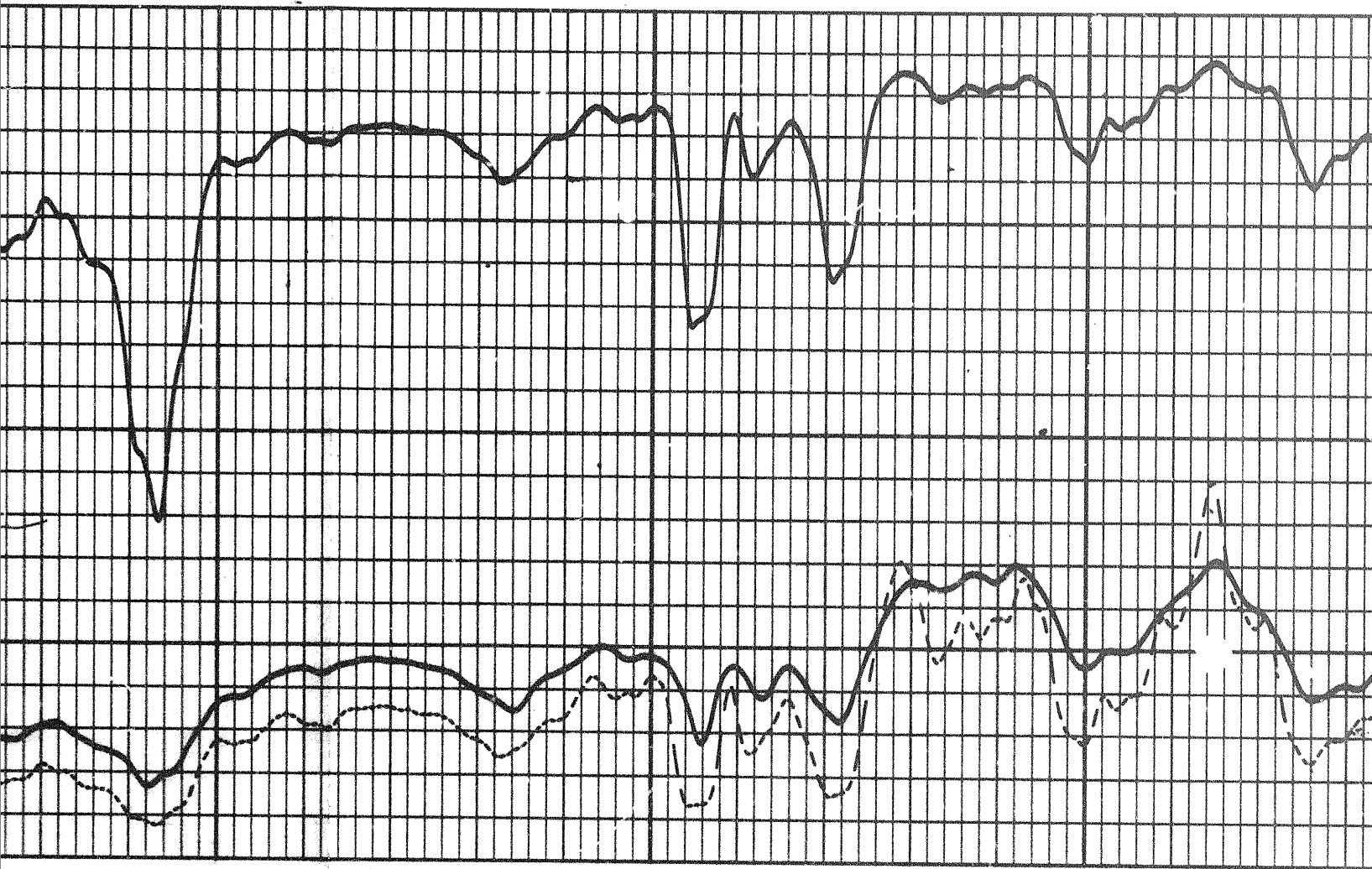
11100





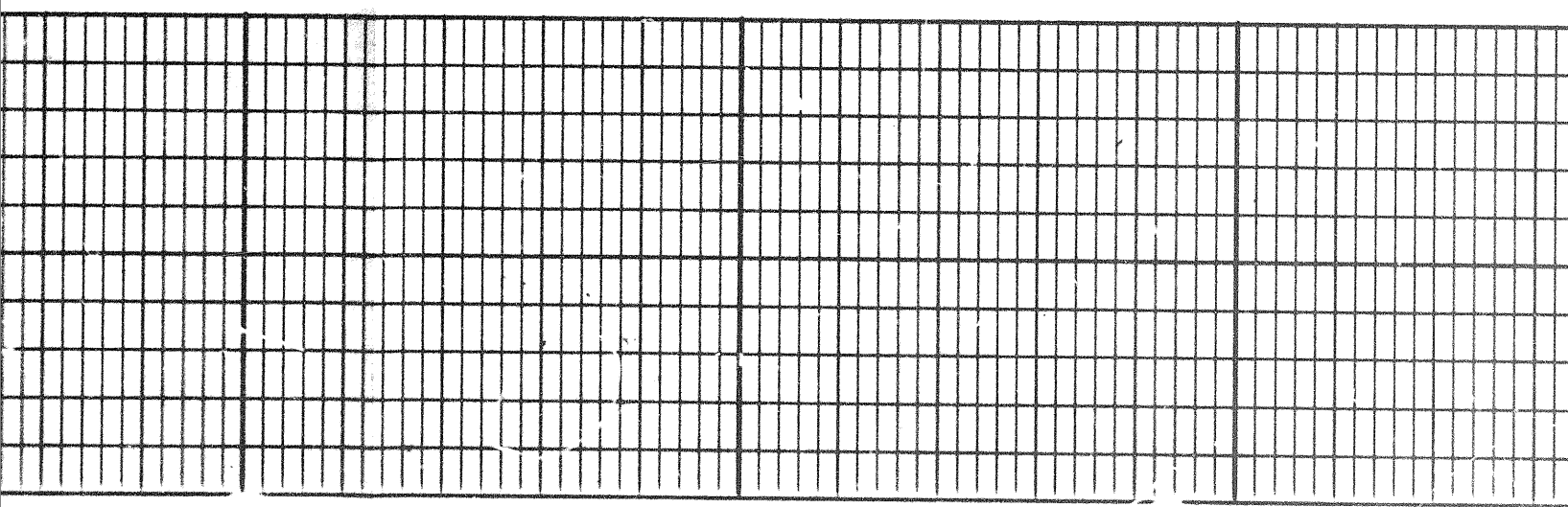
11200



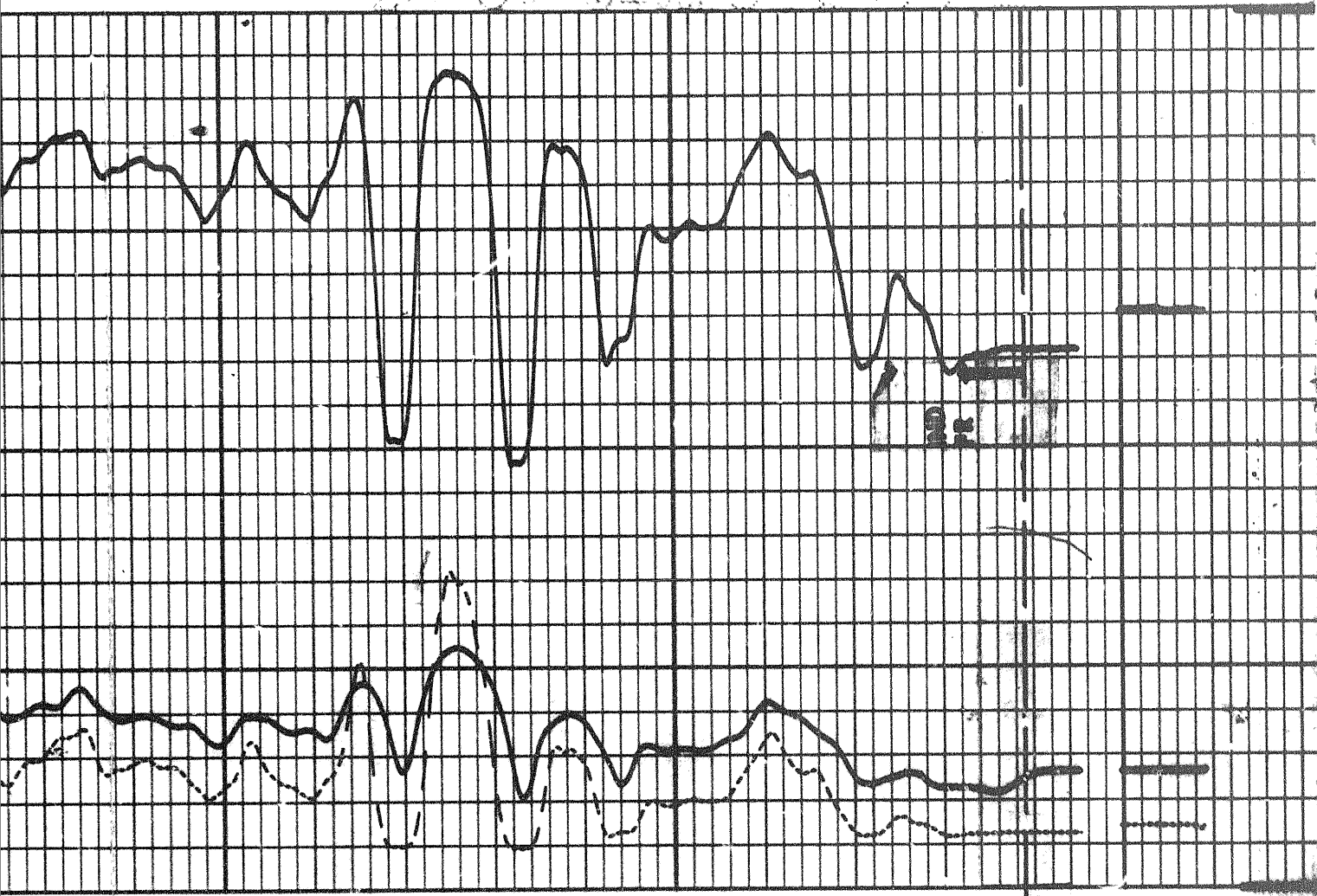


11300

11400



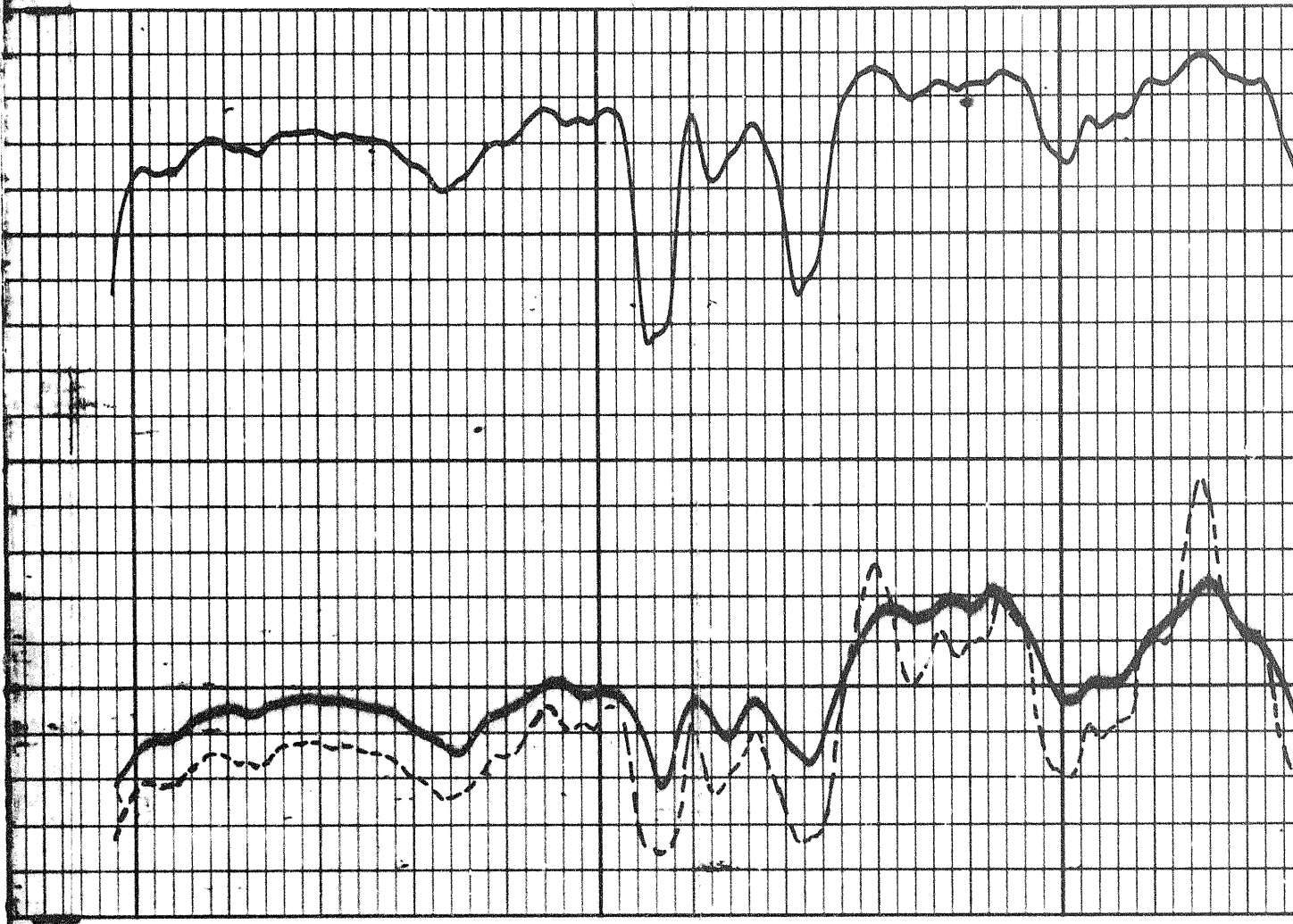
20-01-61000 0 2177



1150

FR

Run 2 ←

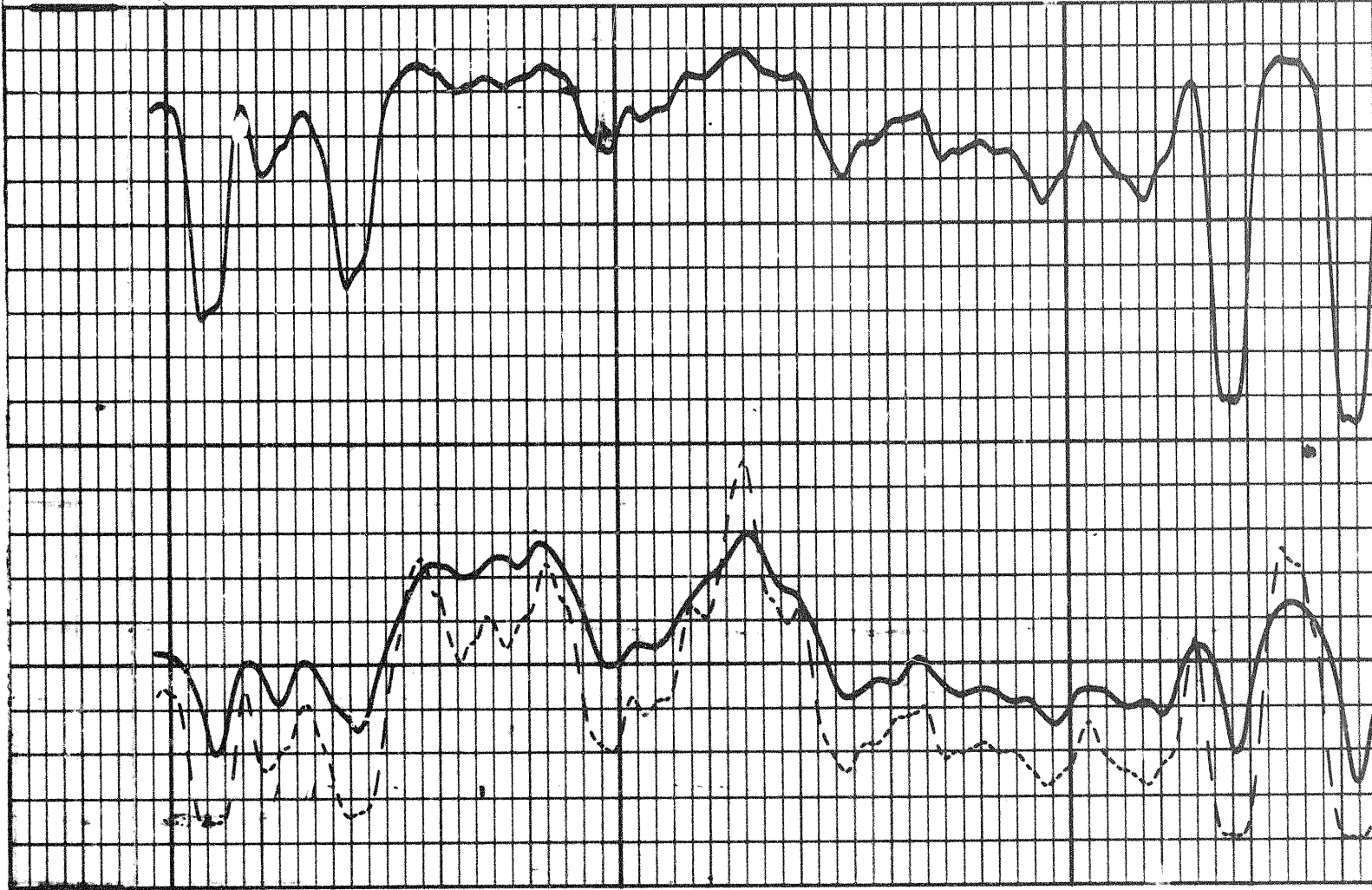


11300

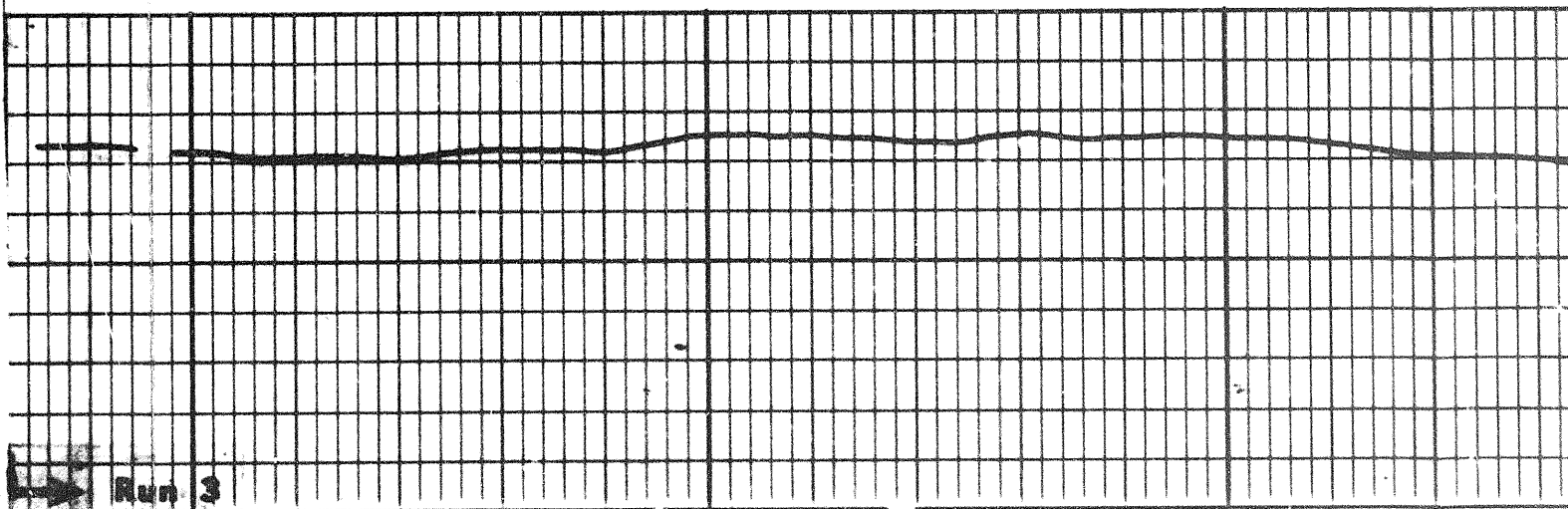
11400



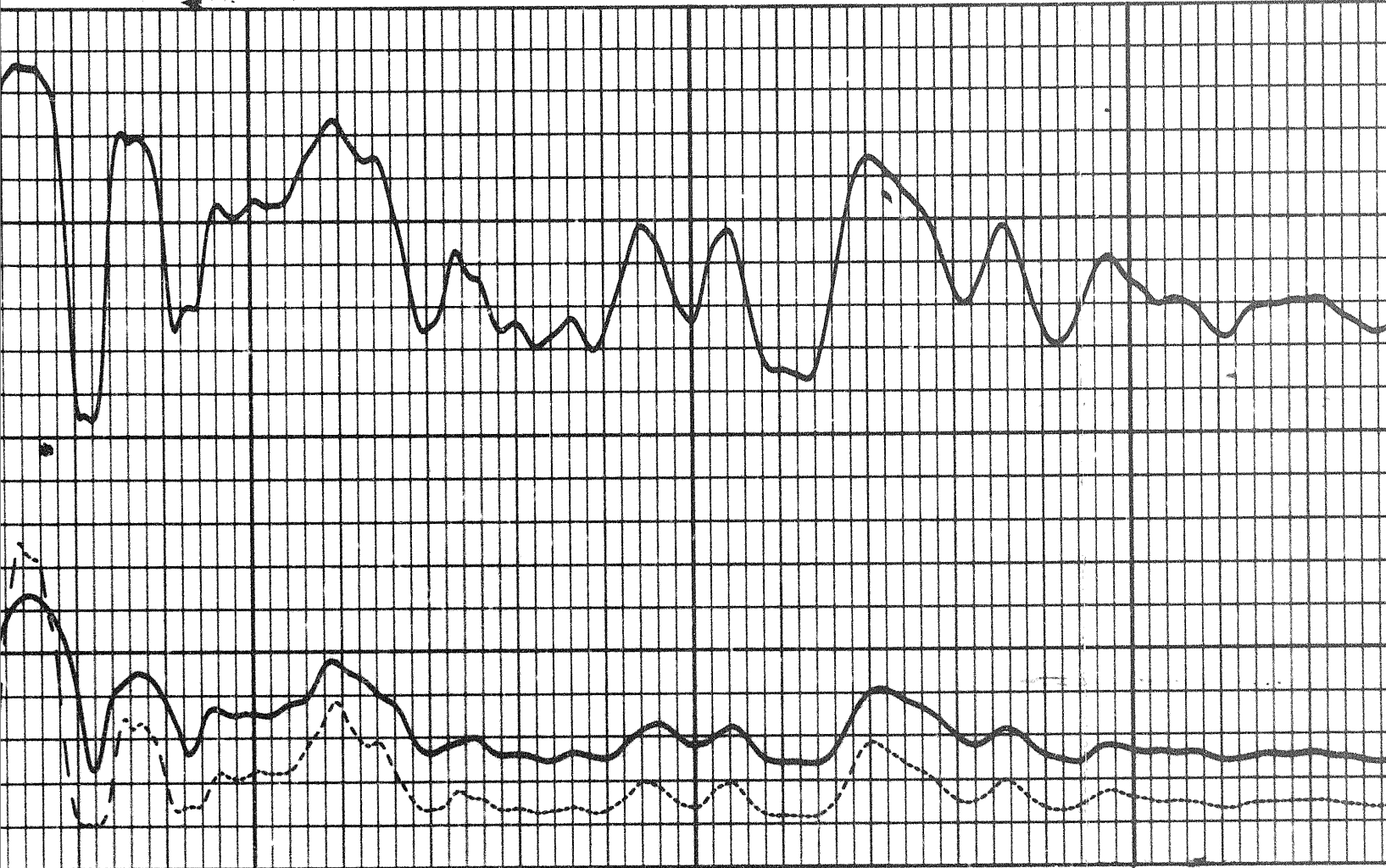
Run 2



11400

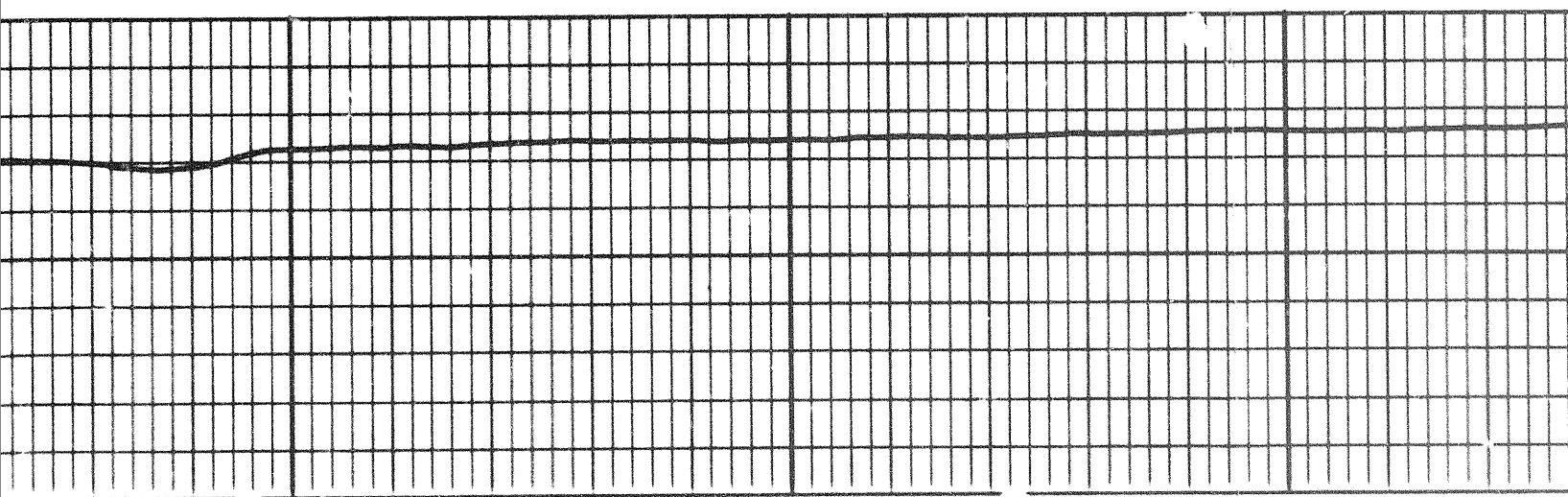


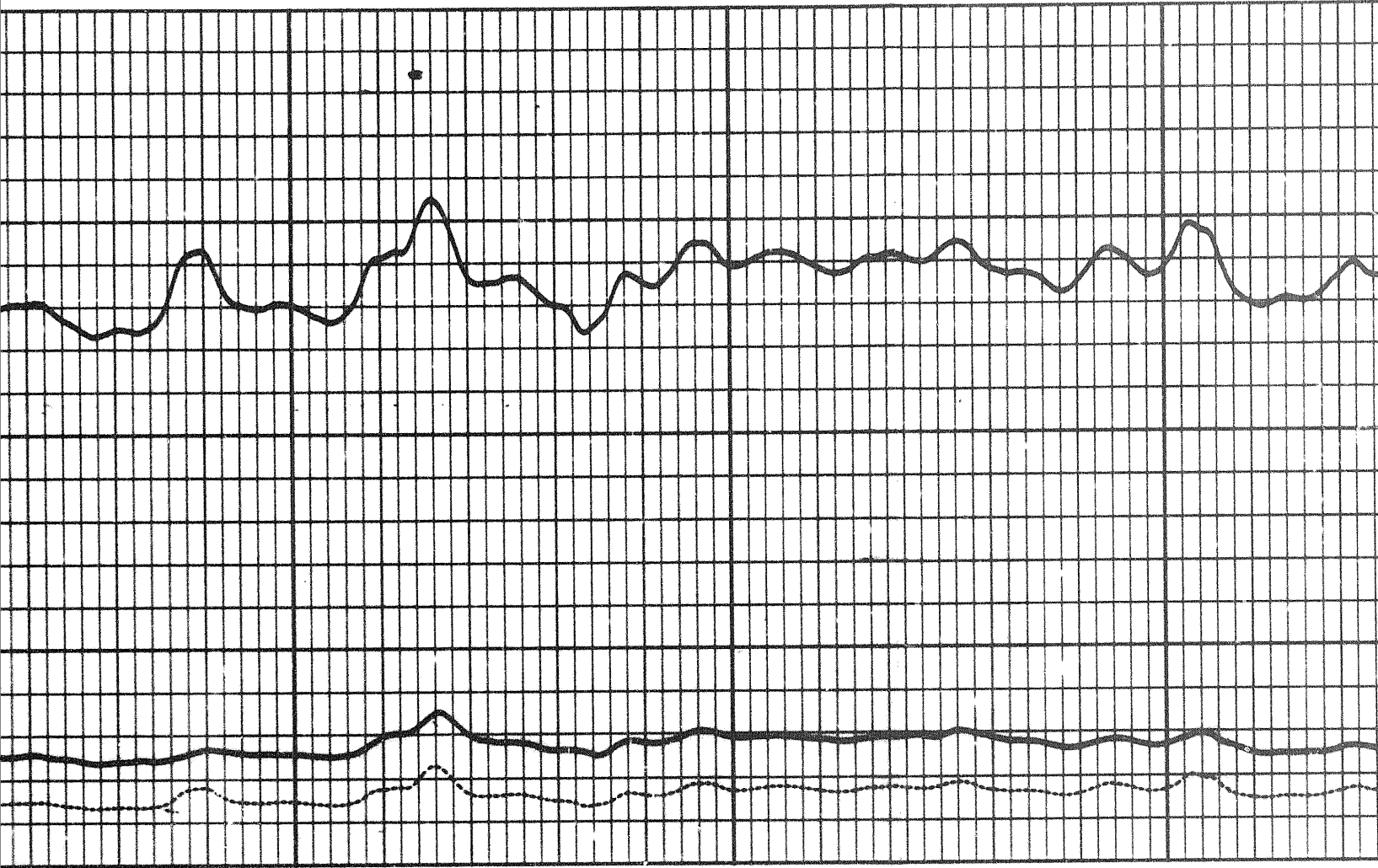
Run 3



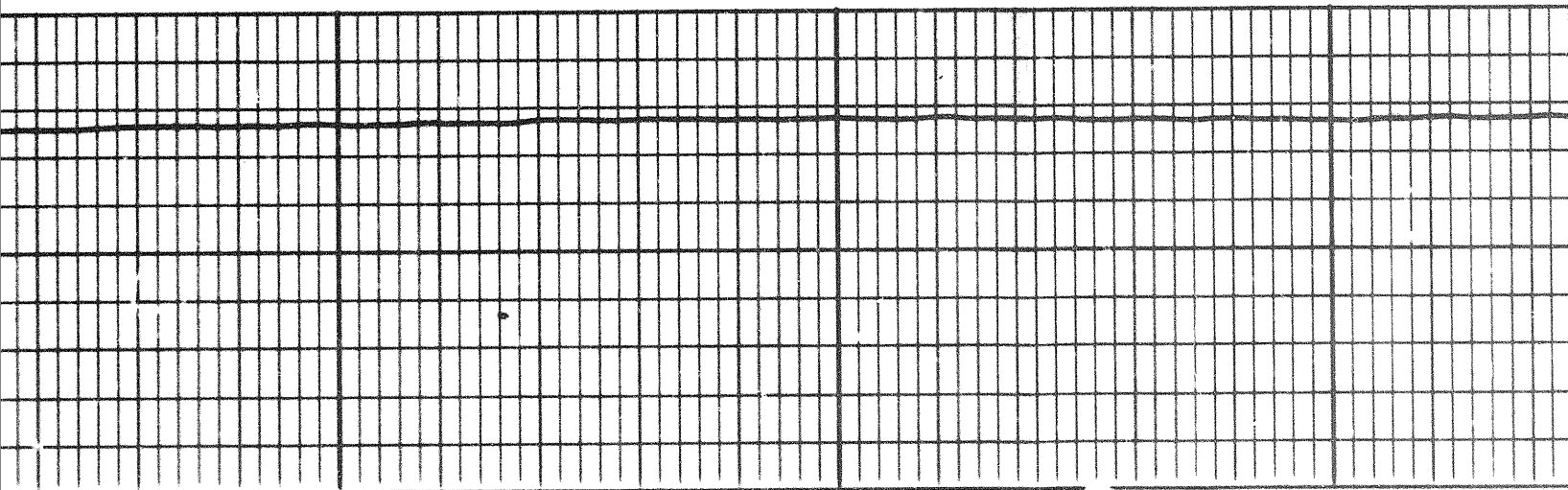
11500

11600





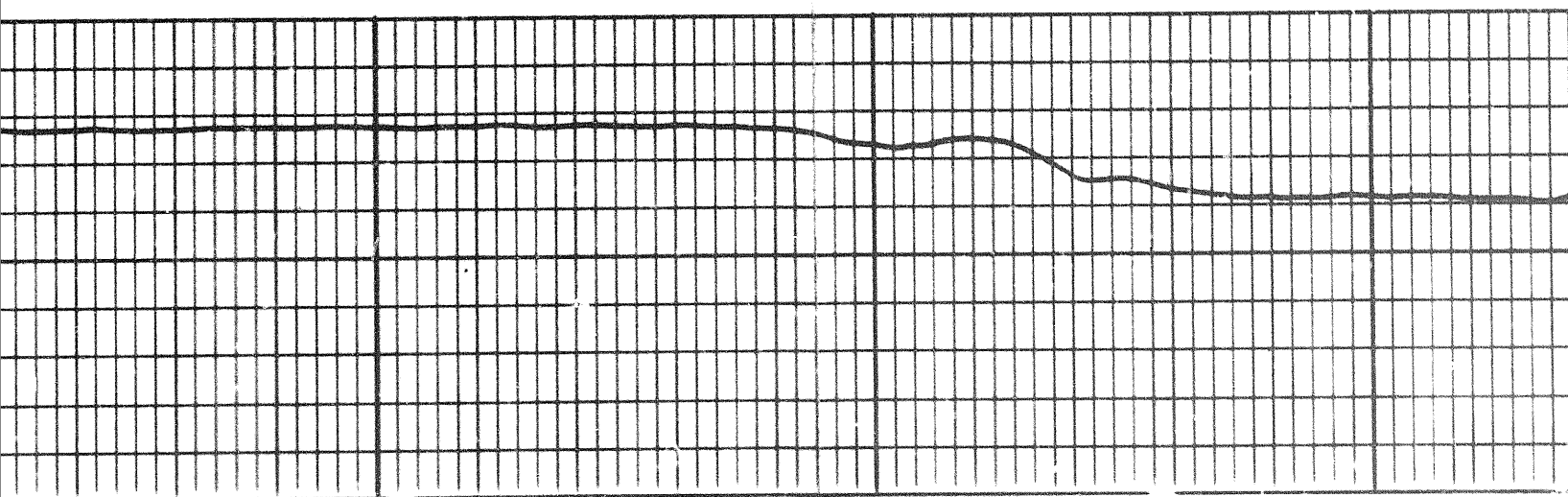
11700

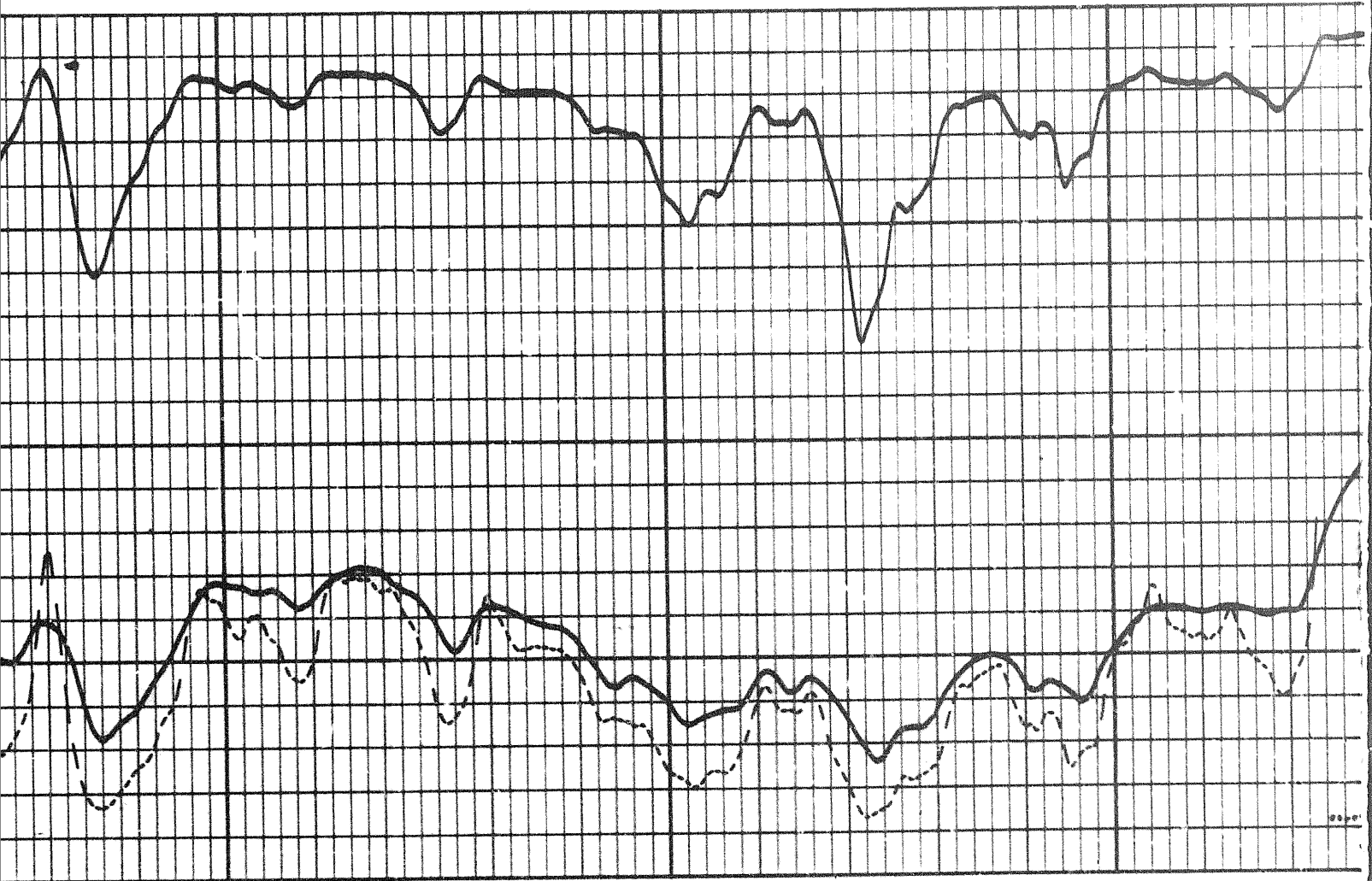




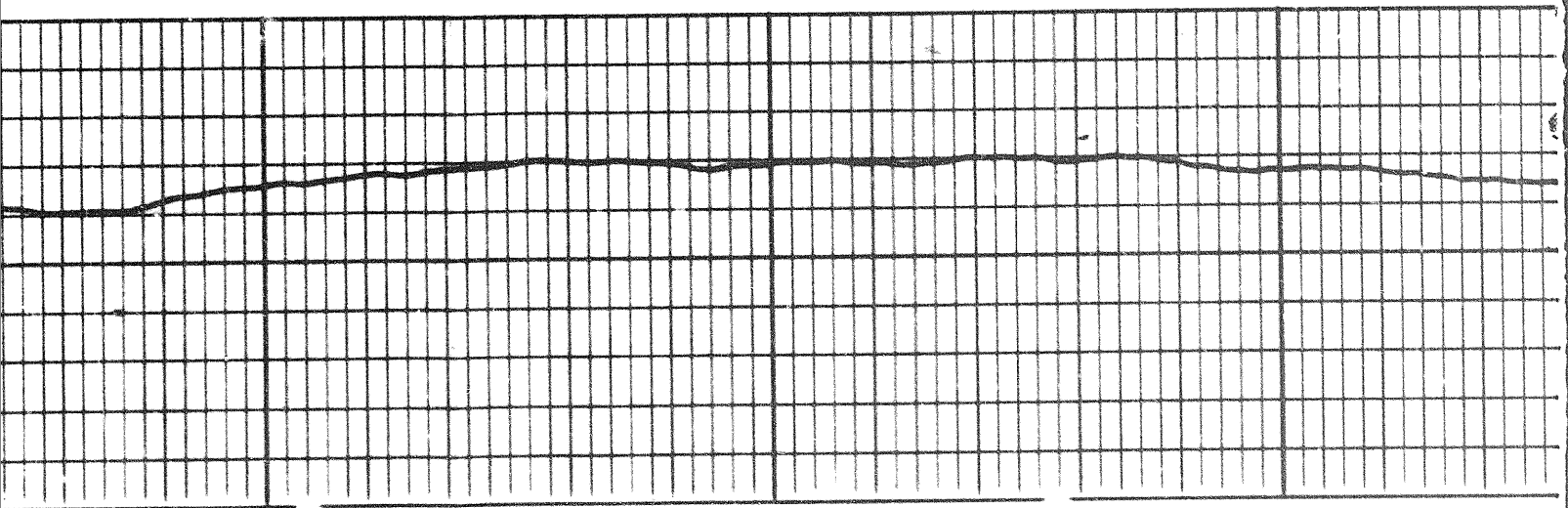
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11900

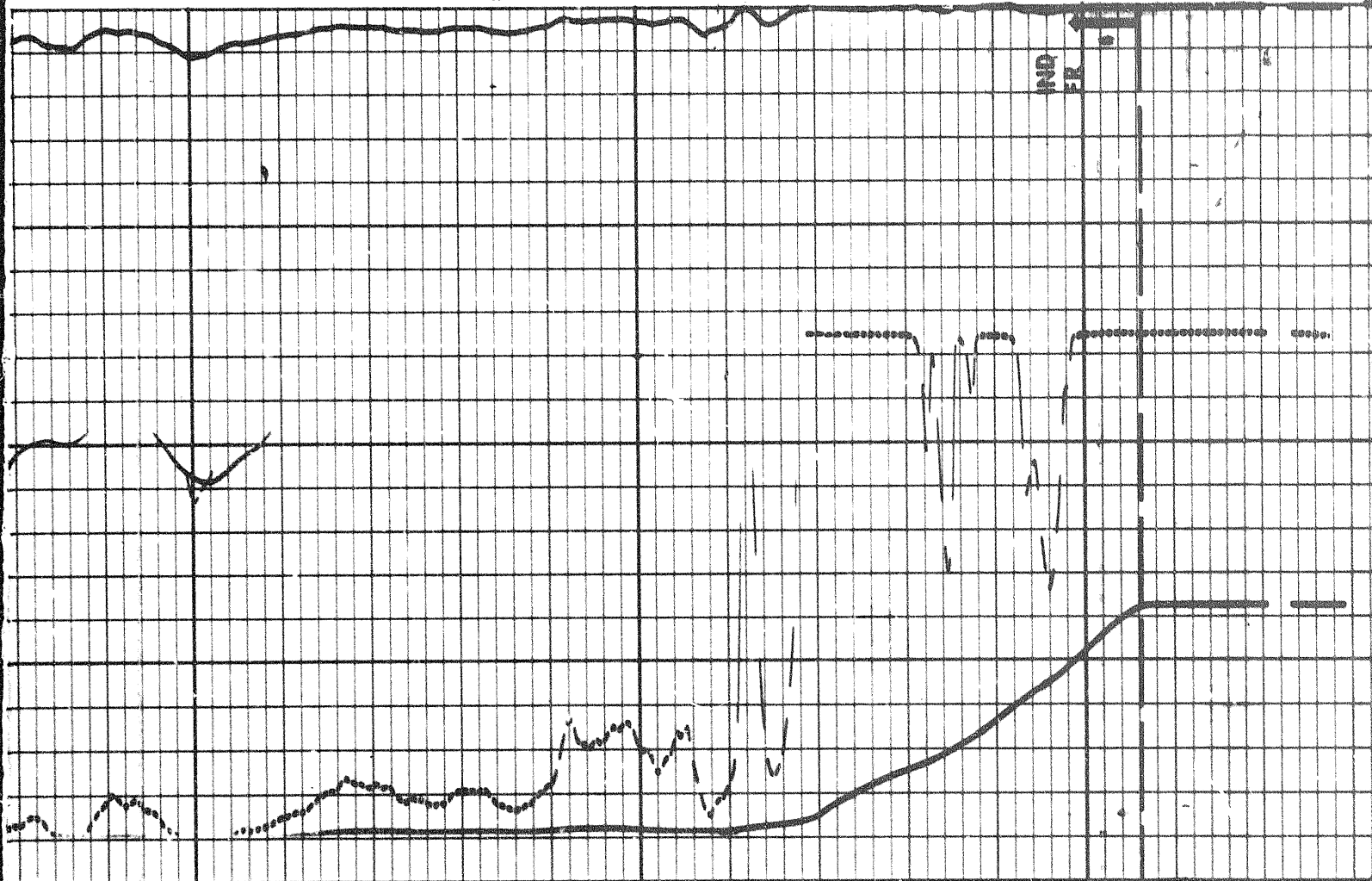




12000



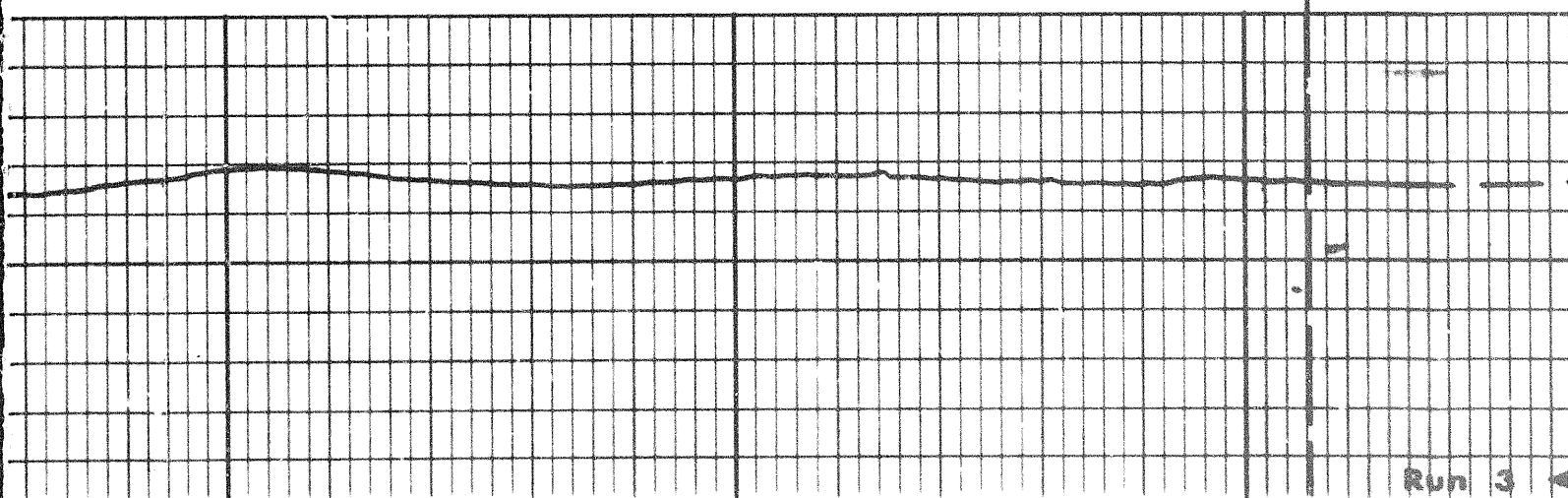
12100 - 12200

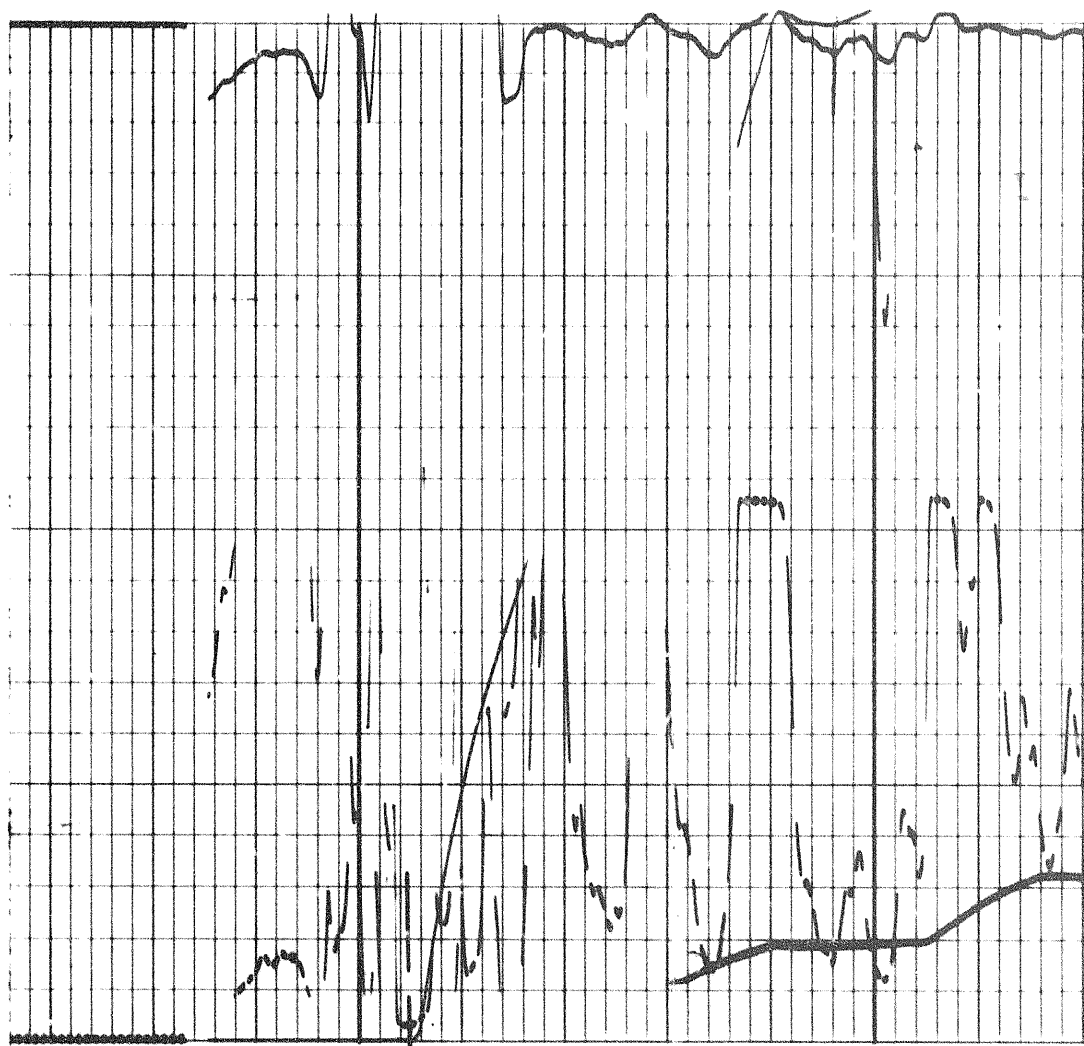
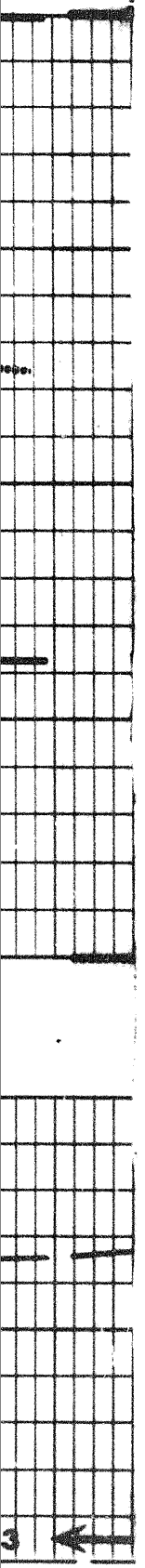


12100

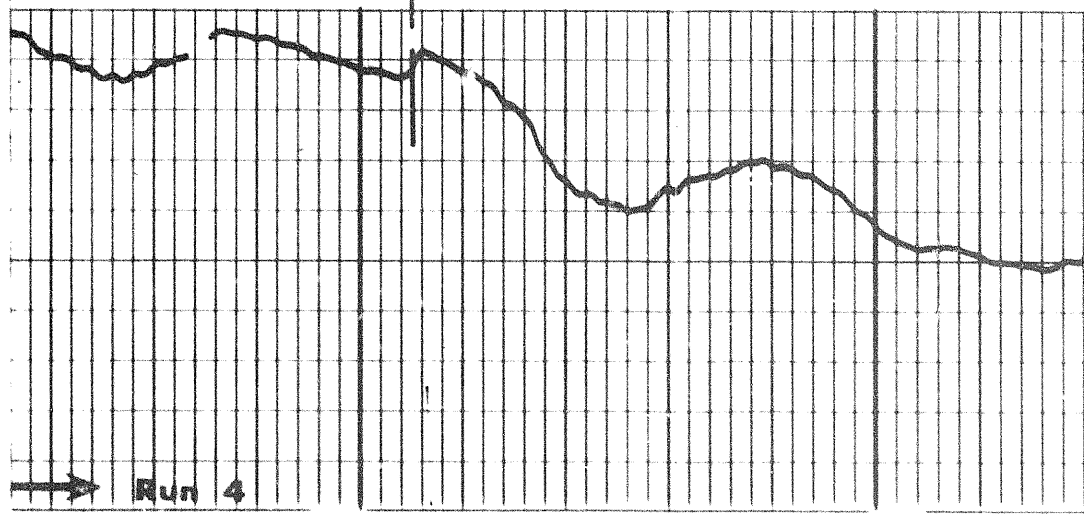
12200

ER





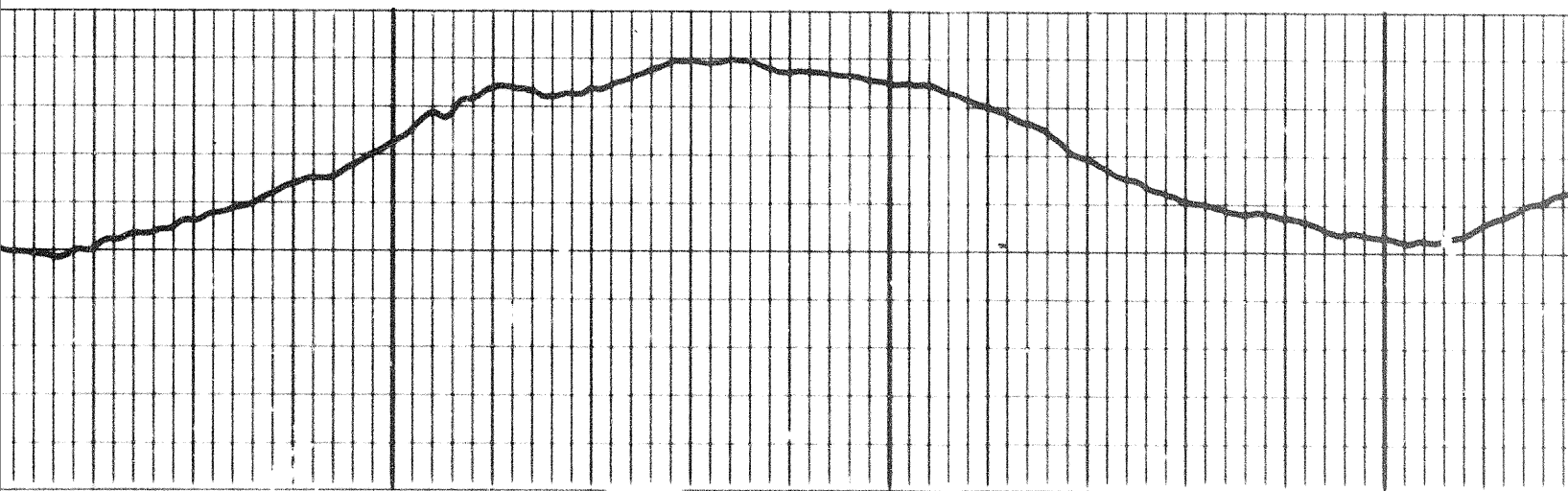
12200

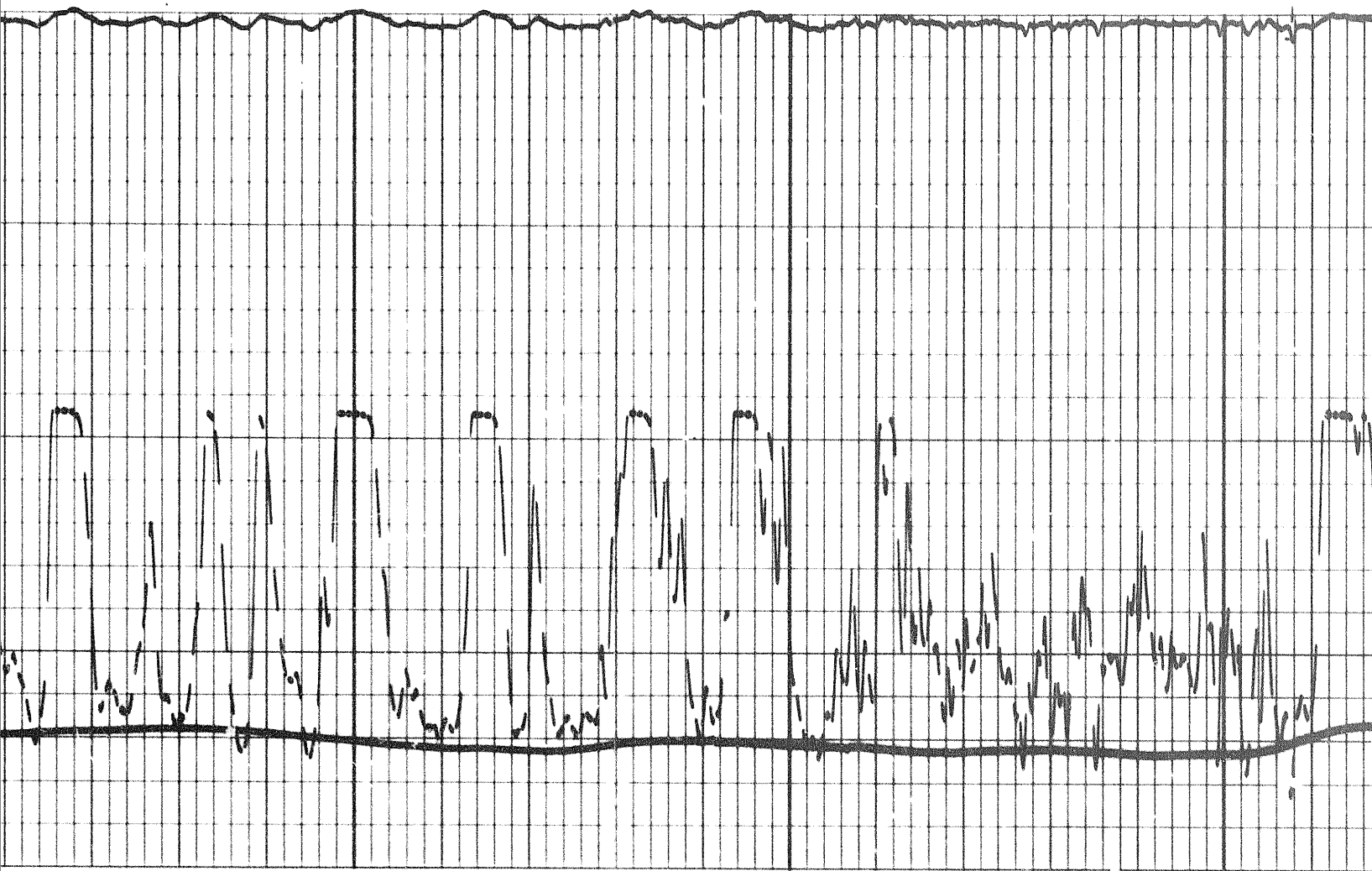


Run 4



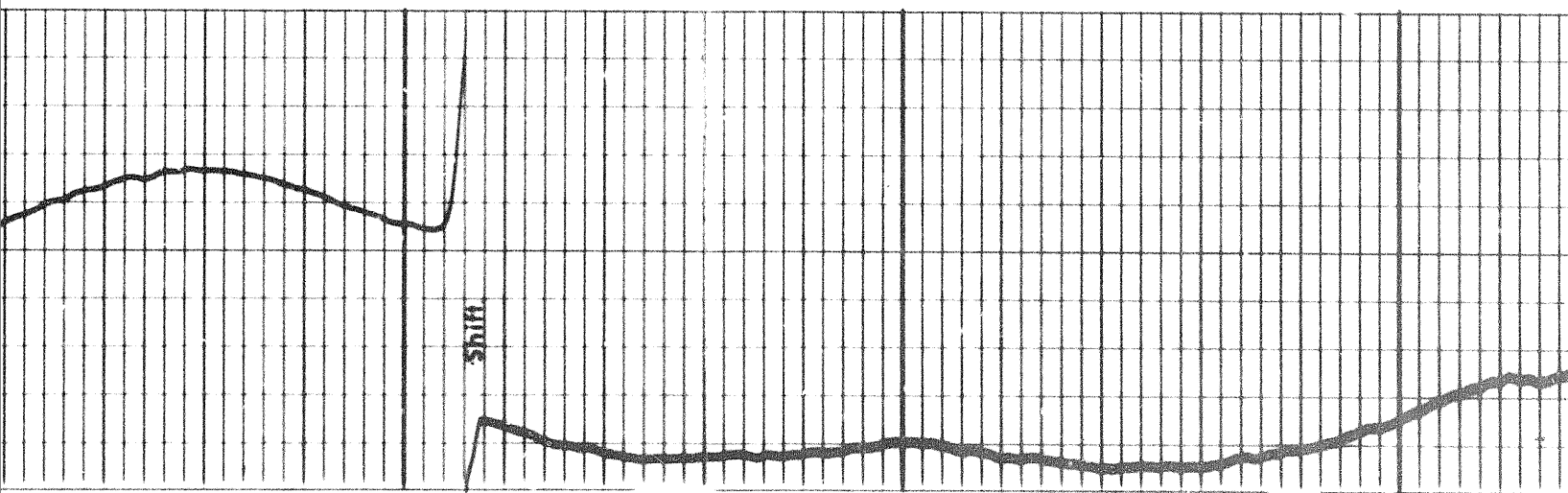
12300

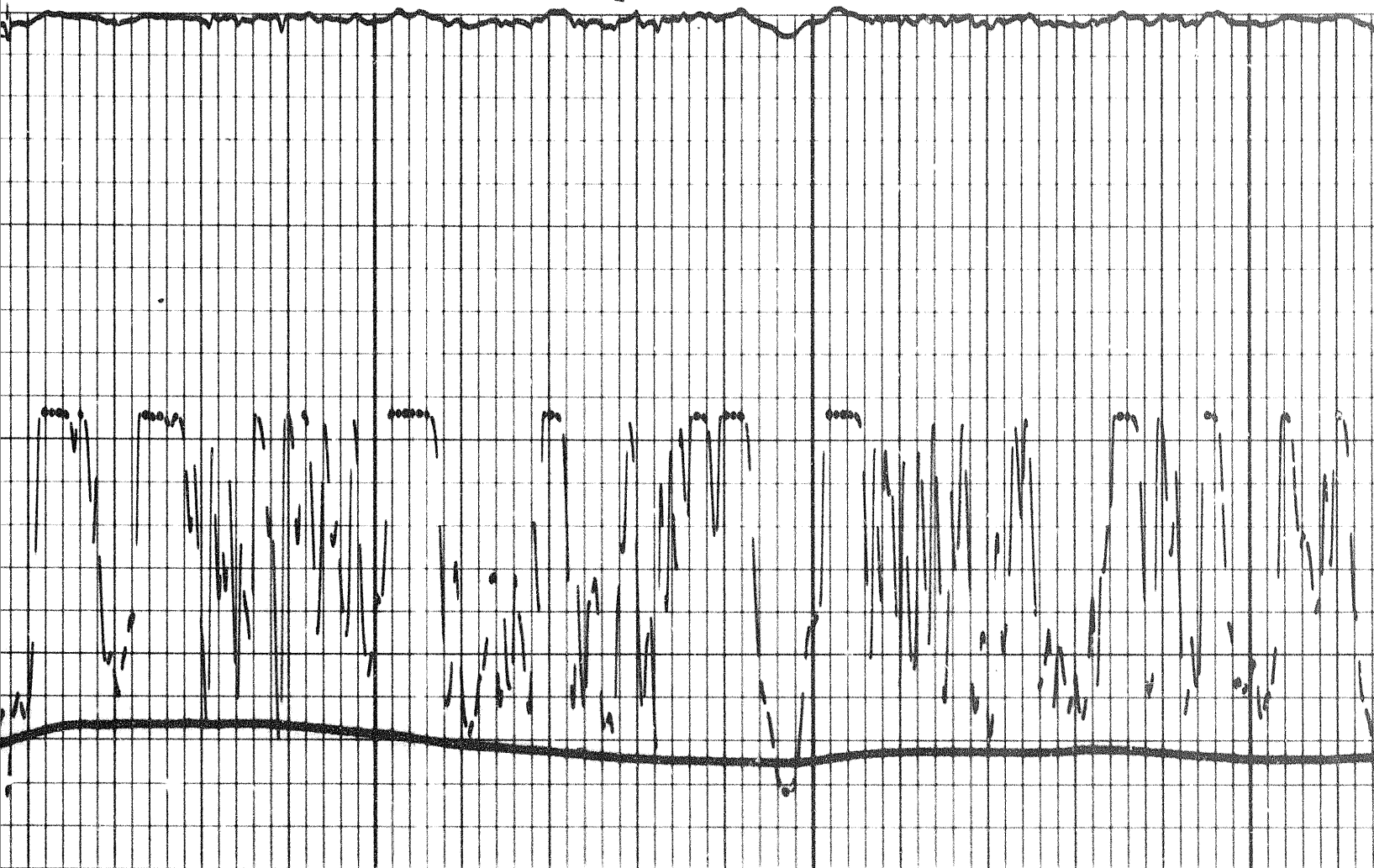




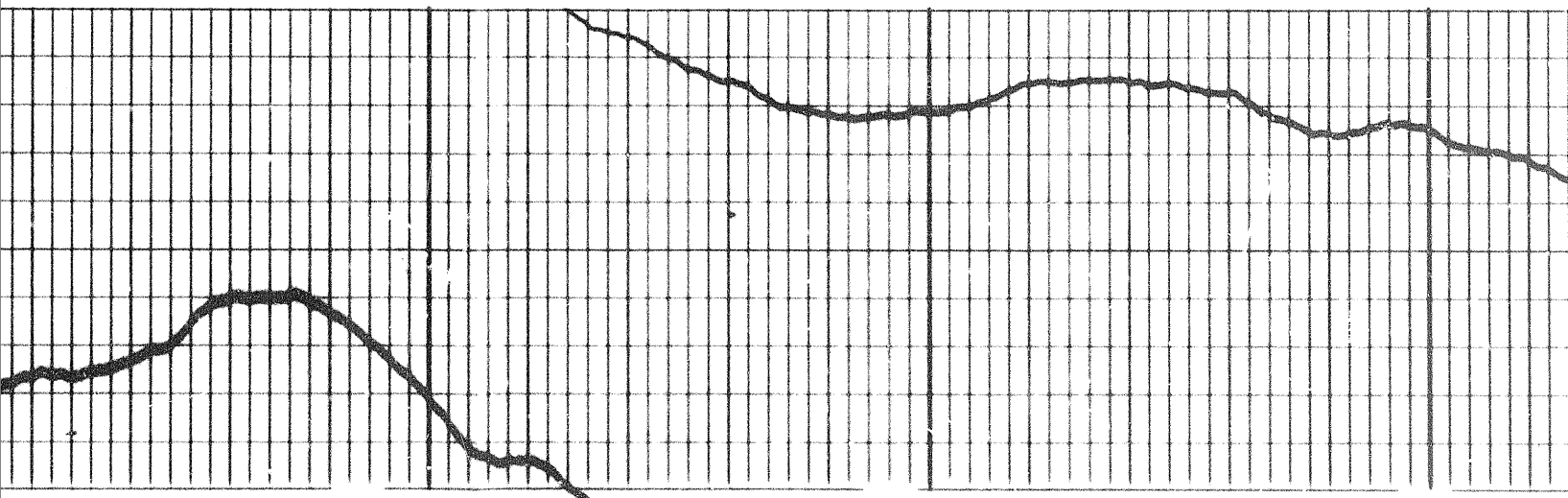
12400

12500





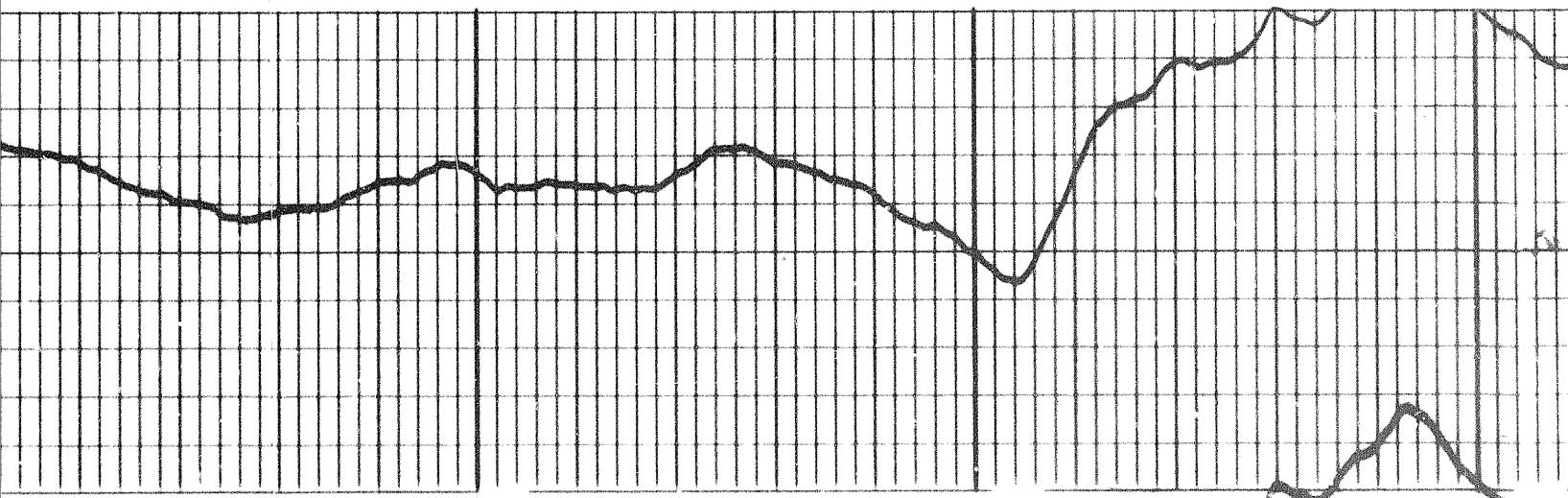
12600





12700

12800



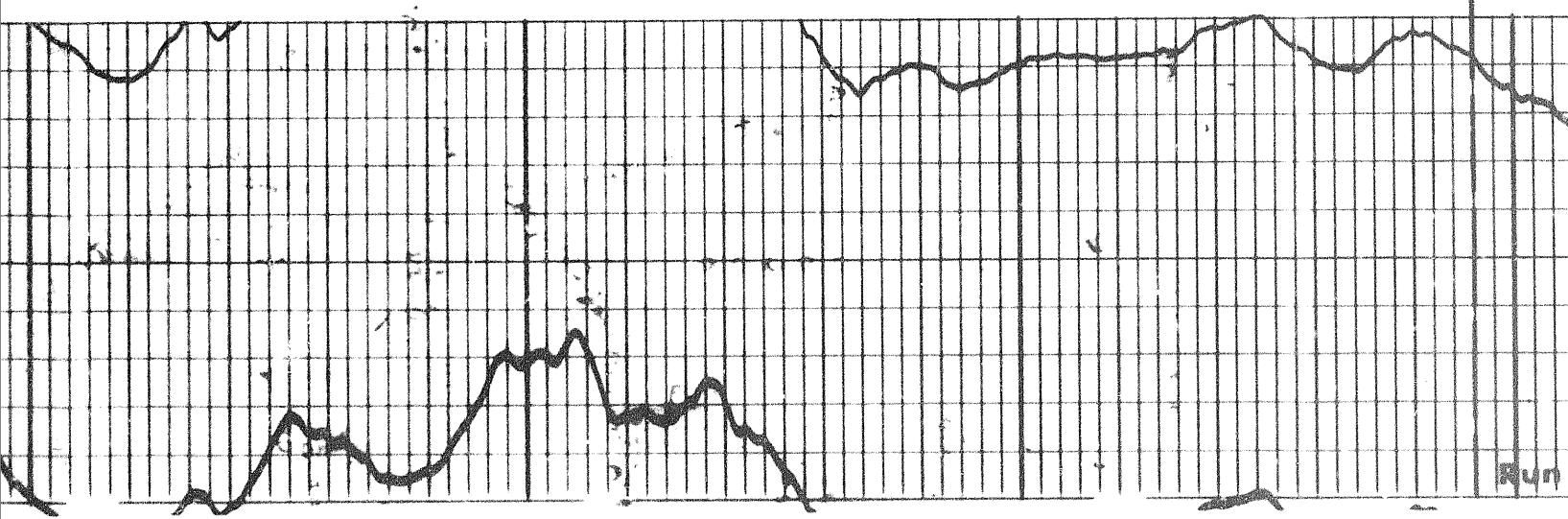


↑
FR

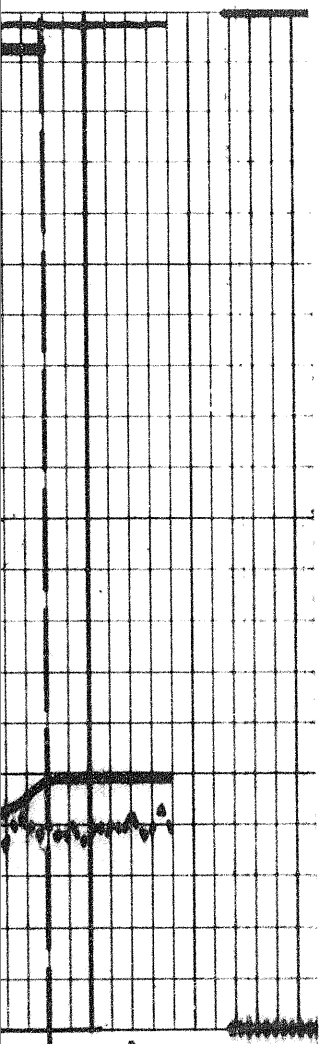
2800

12900

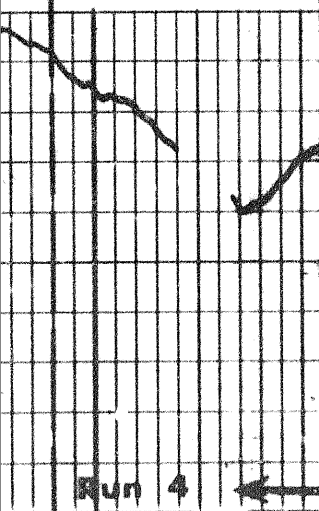
FR



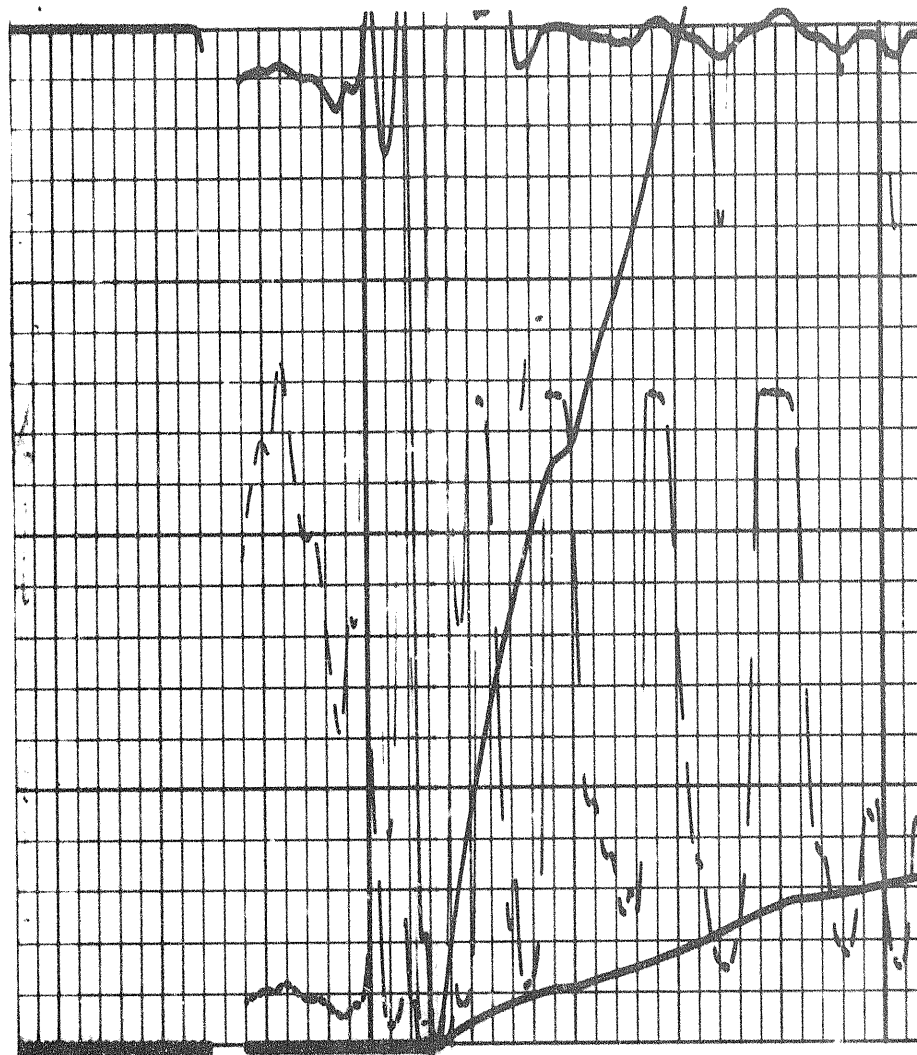
Run



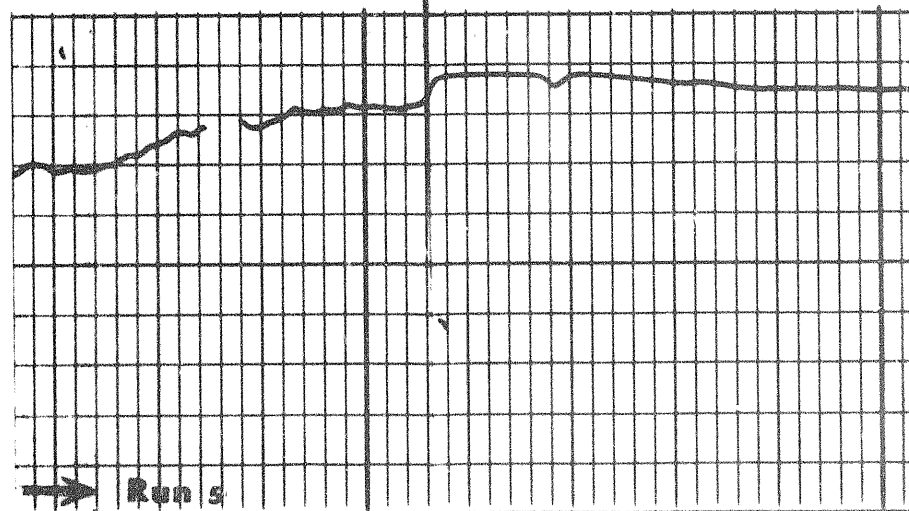
FR



Run 4

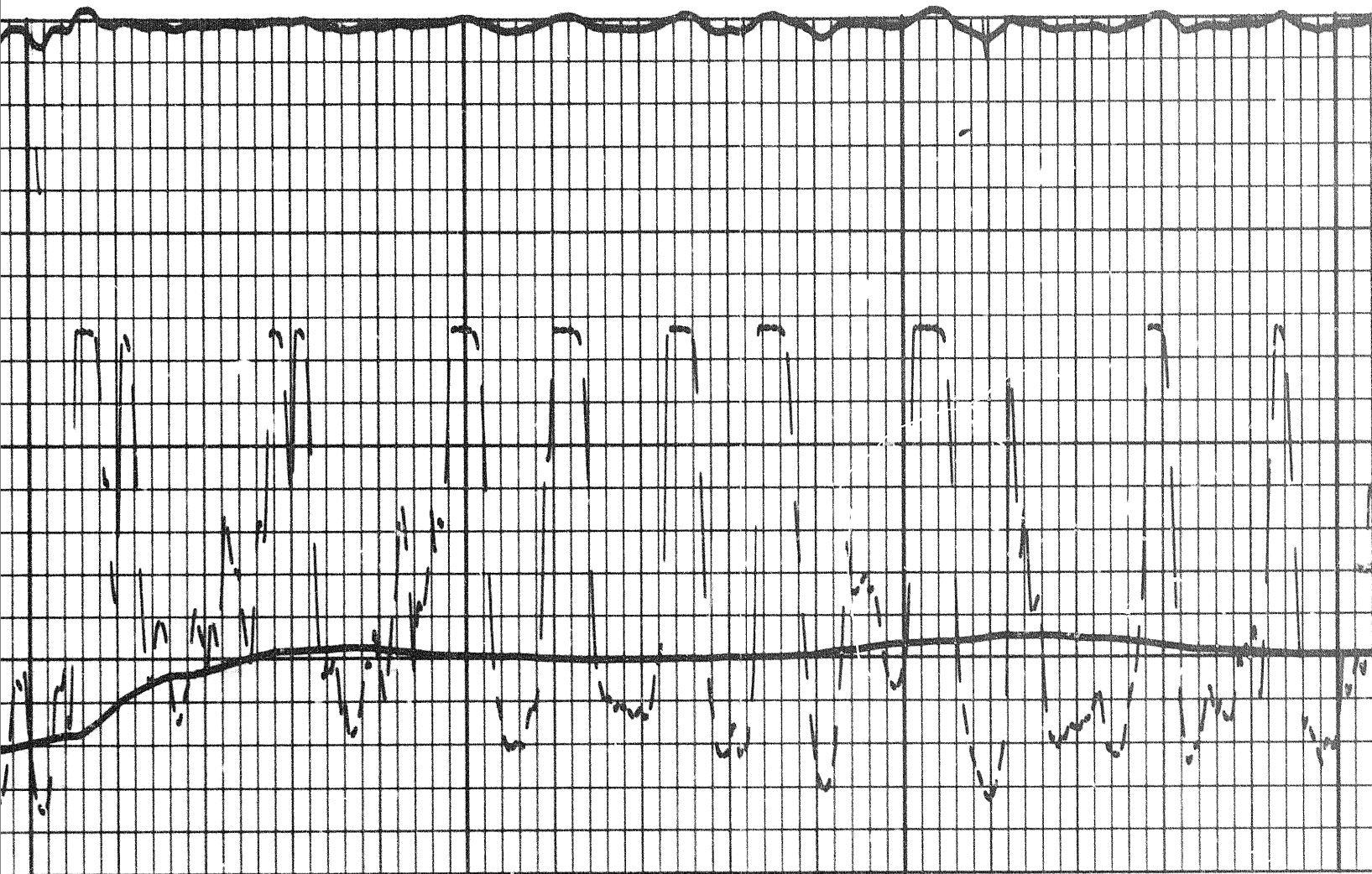


12200



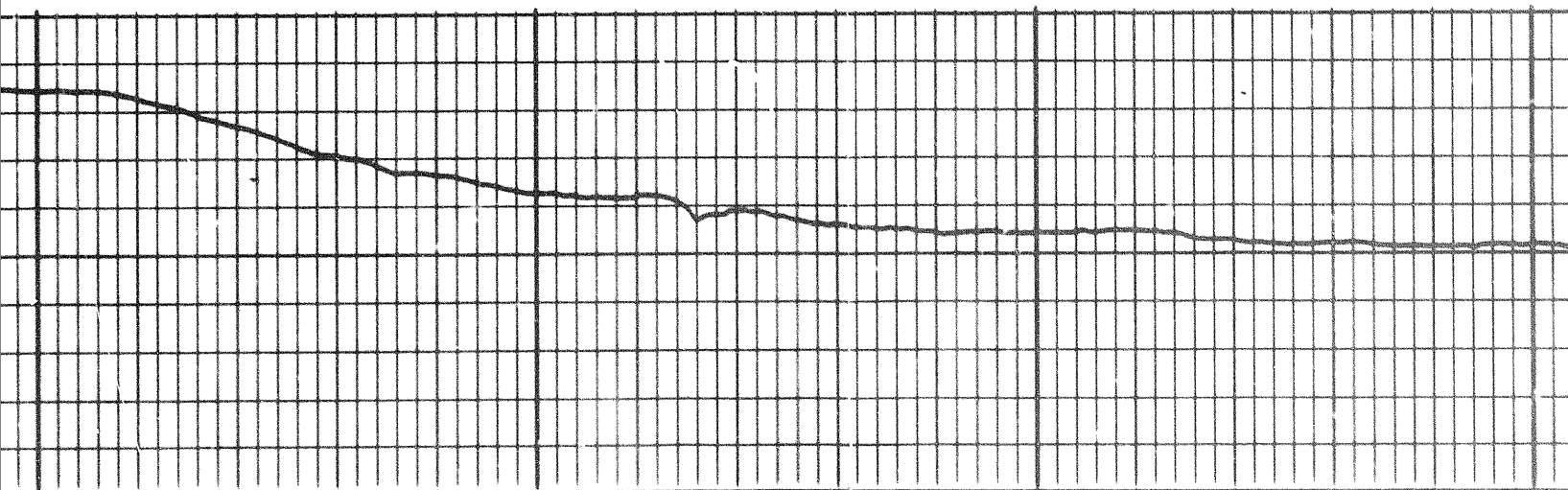
Run 5

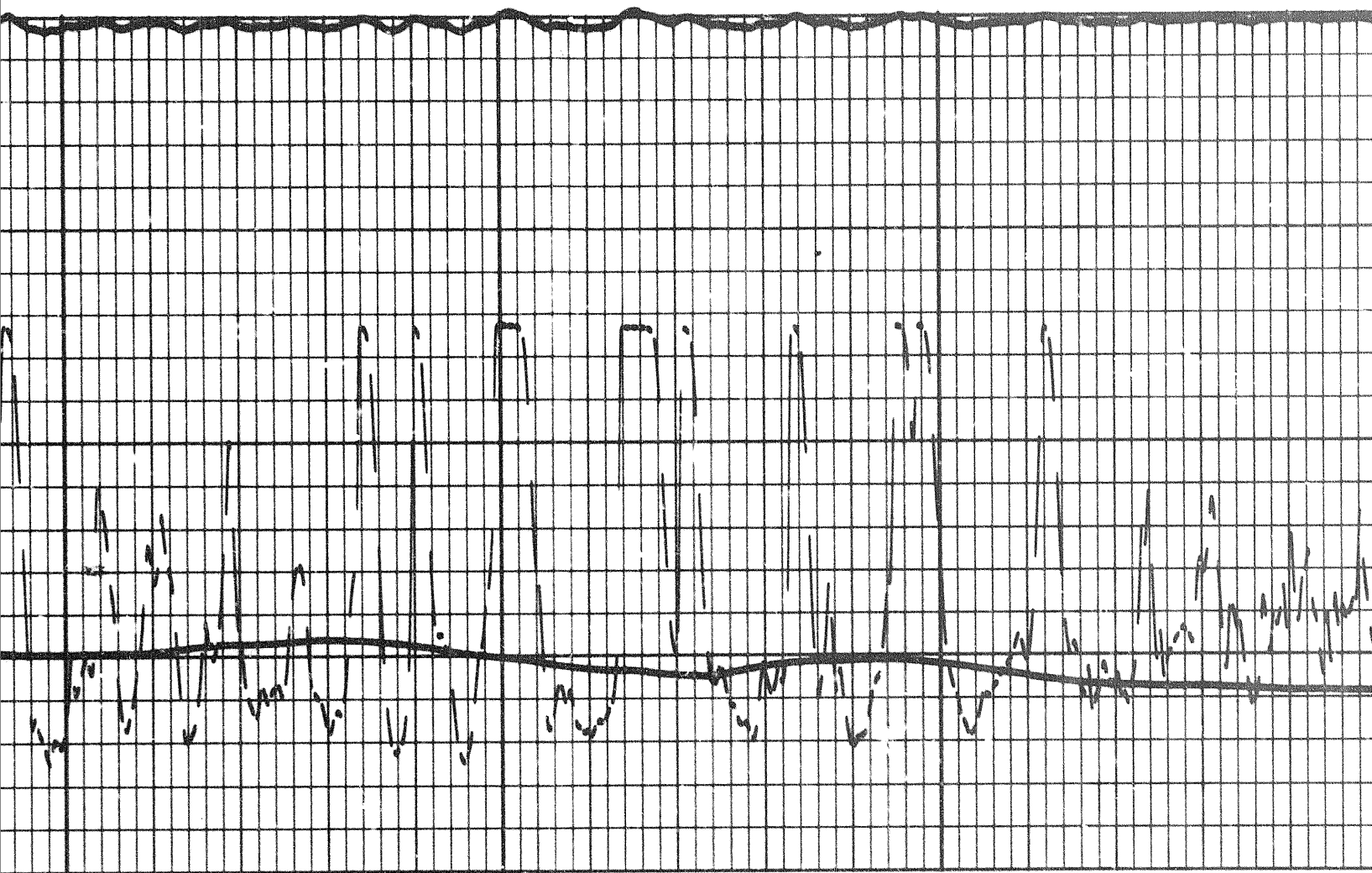




2200

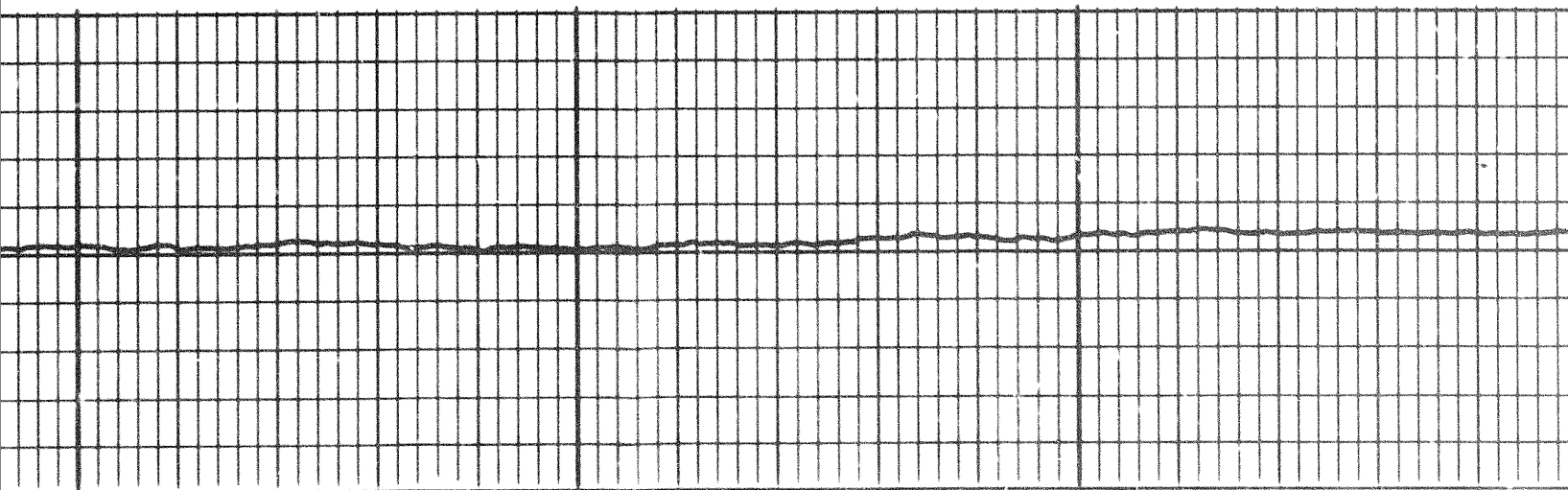
12300





12400

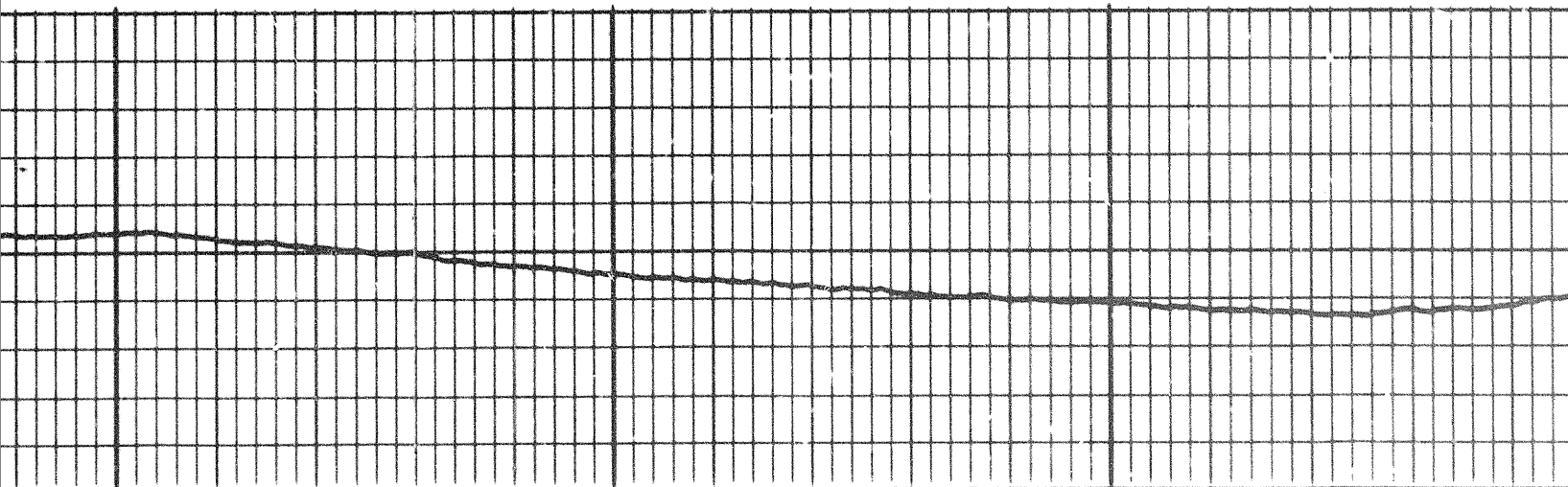
125





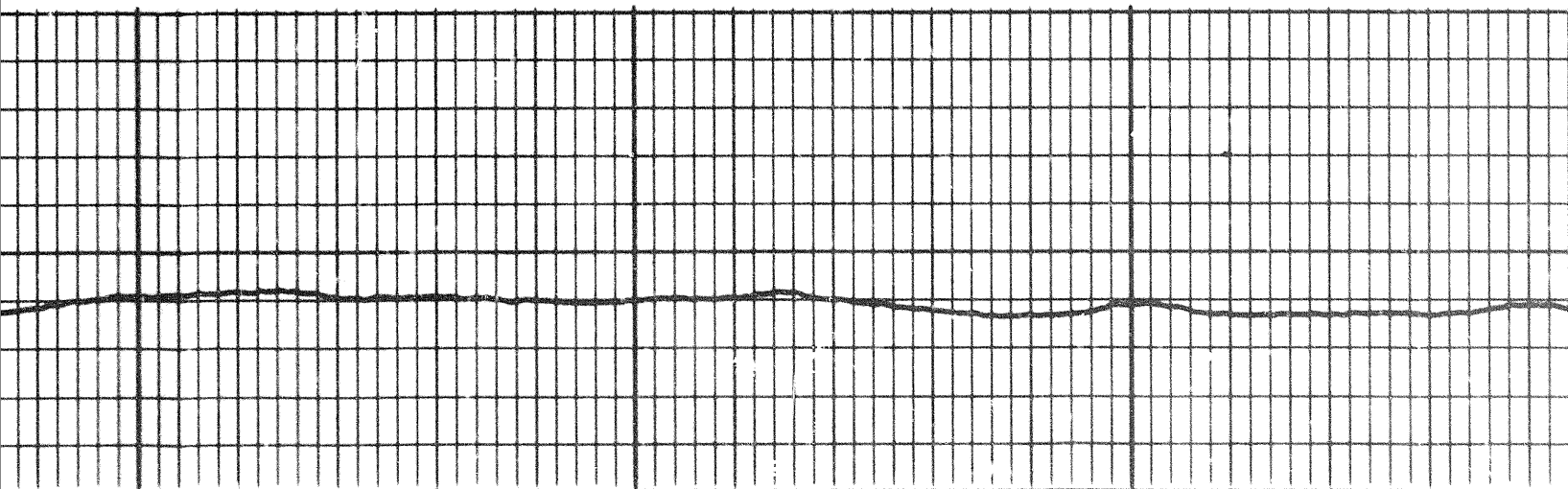
12500

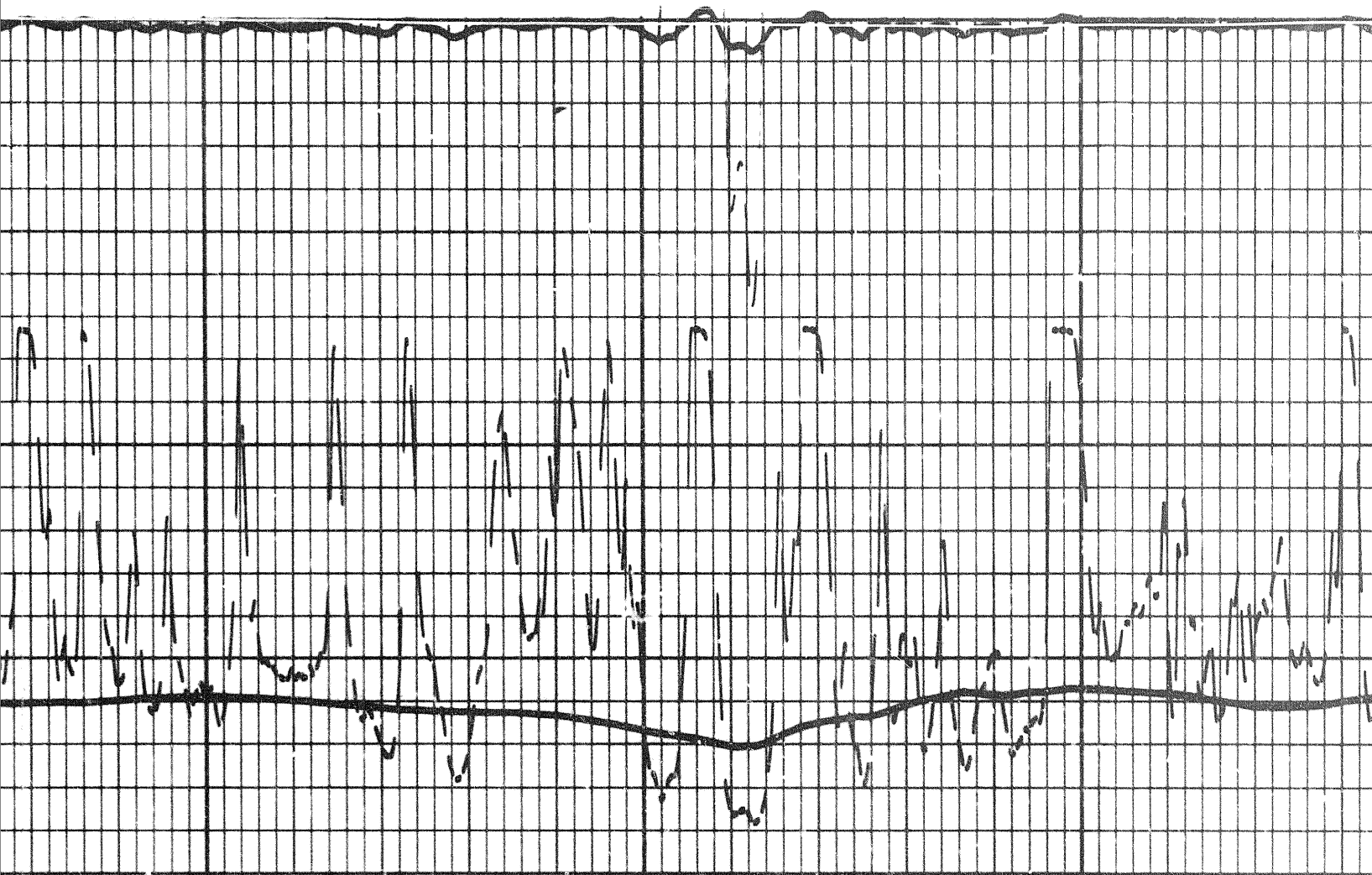
12600





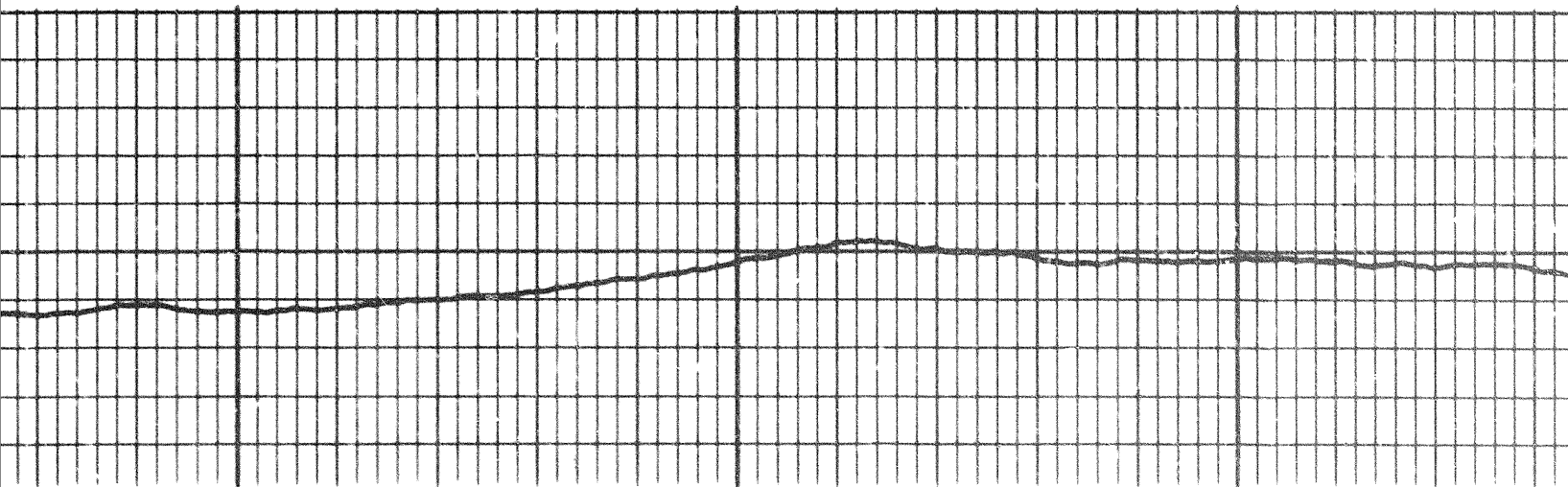
12700





12800

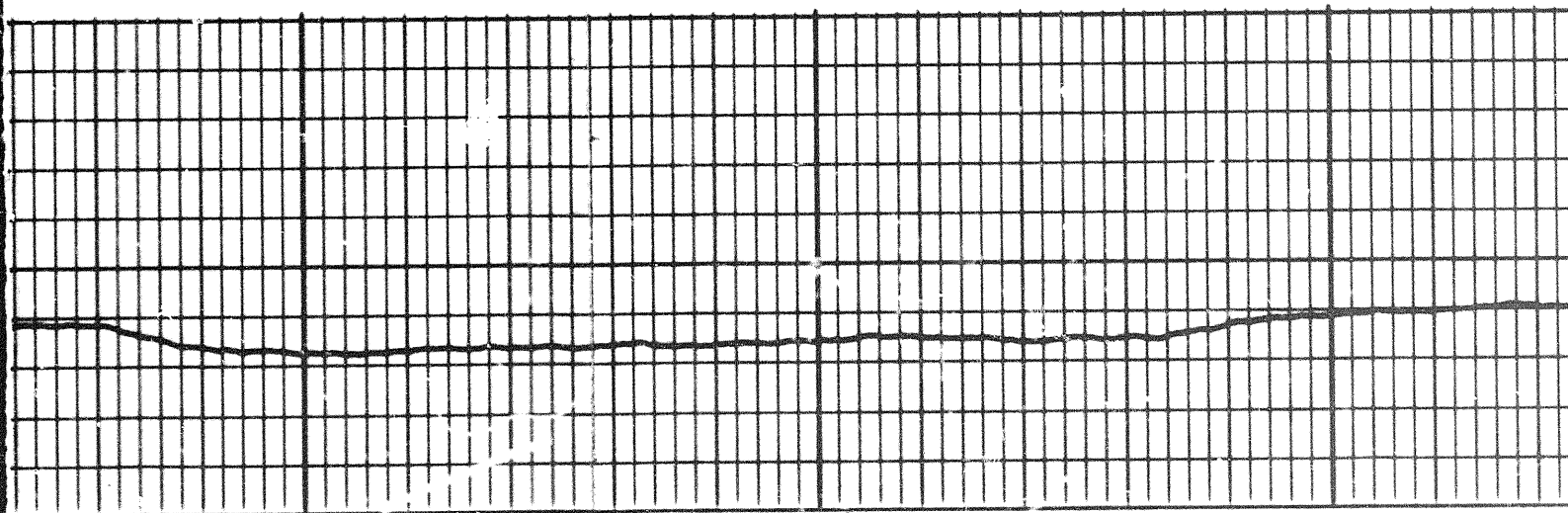
12900

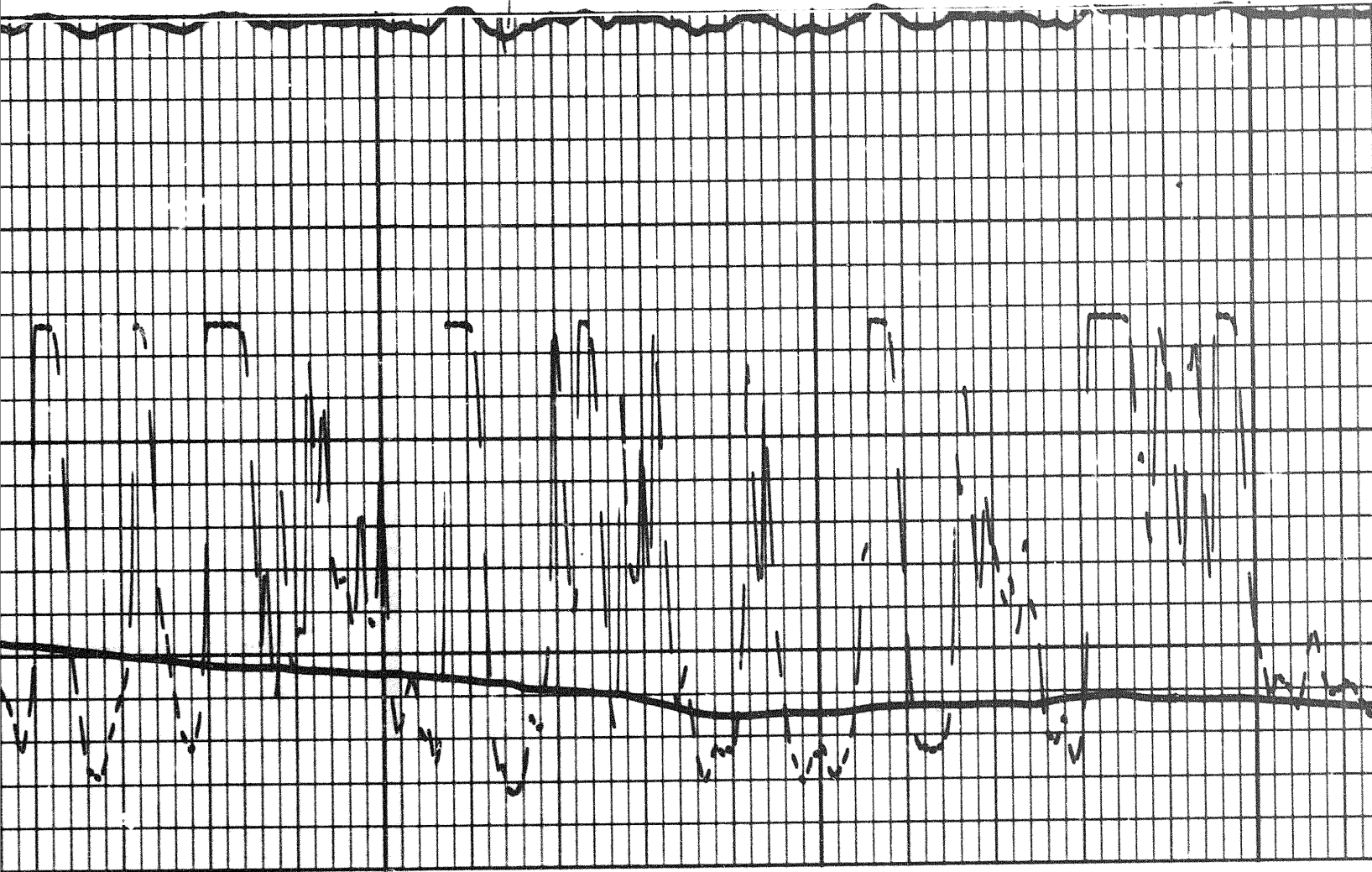




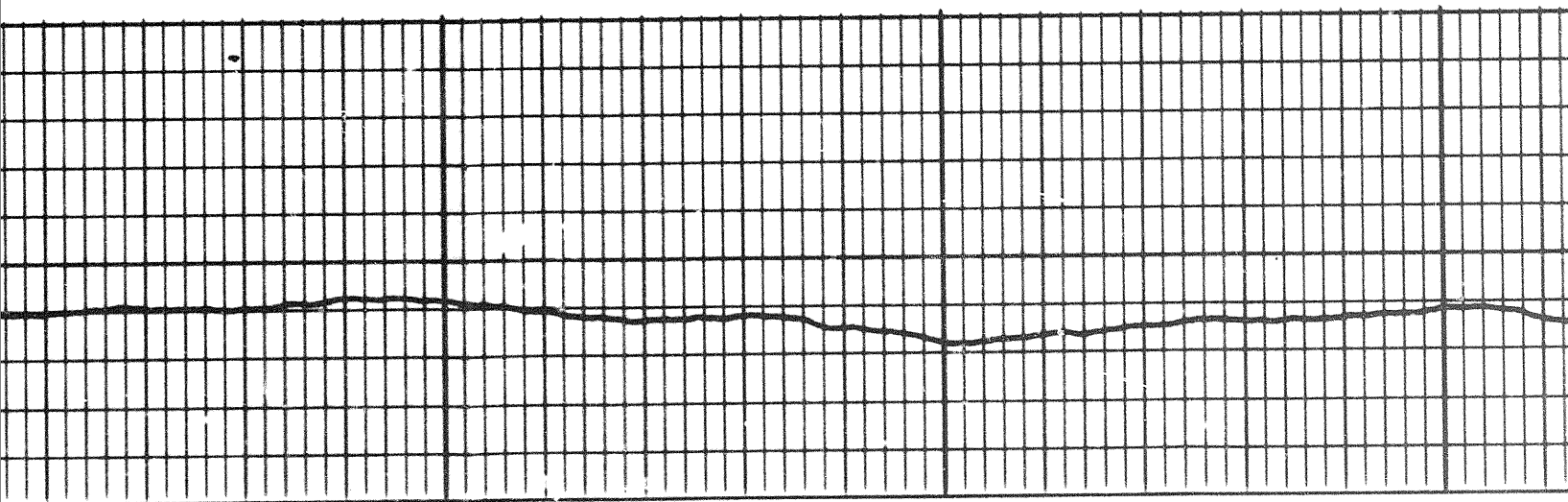
13000

13100





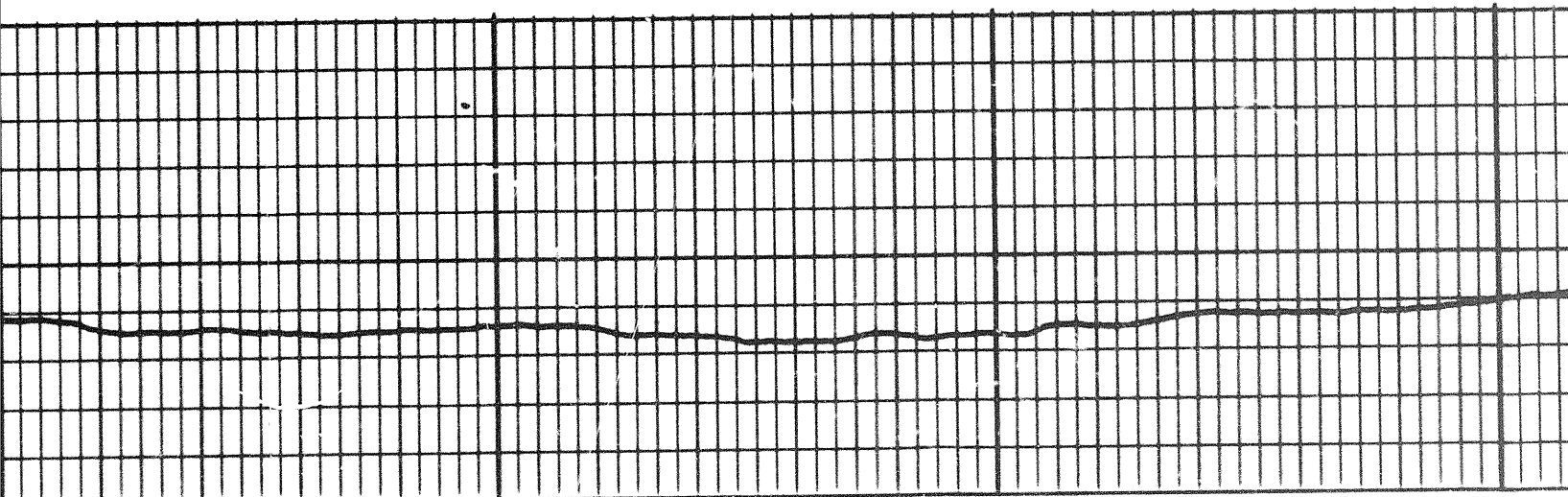
13200

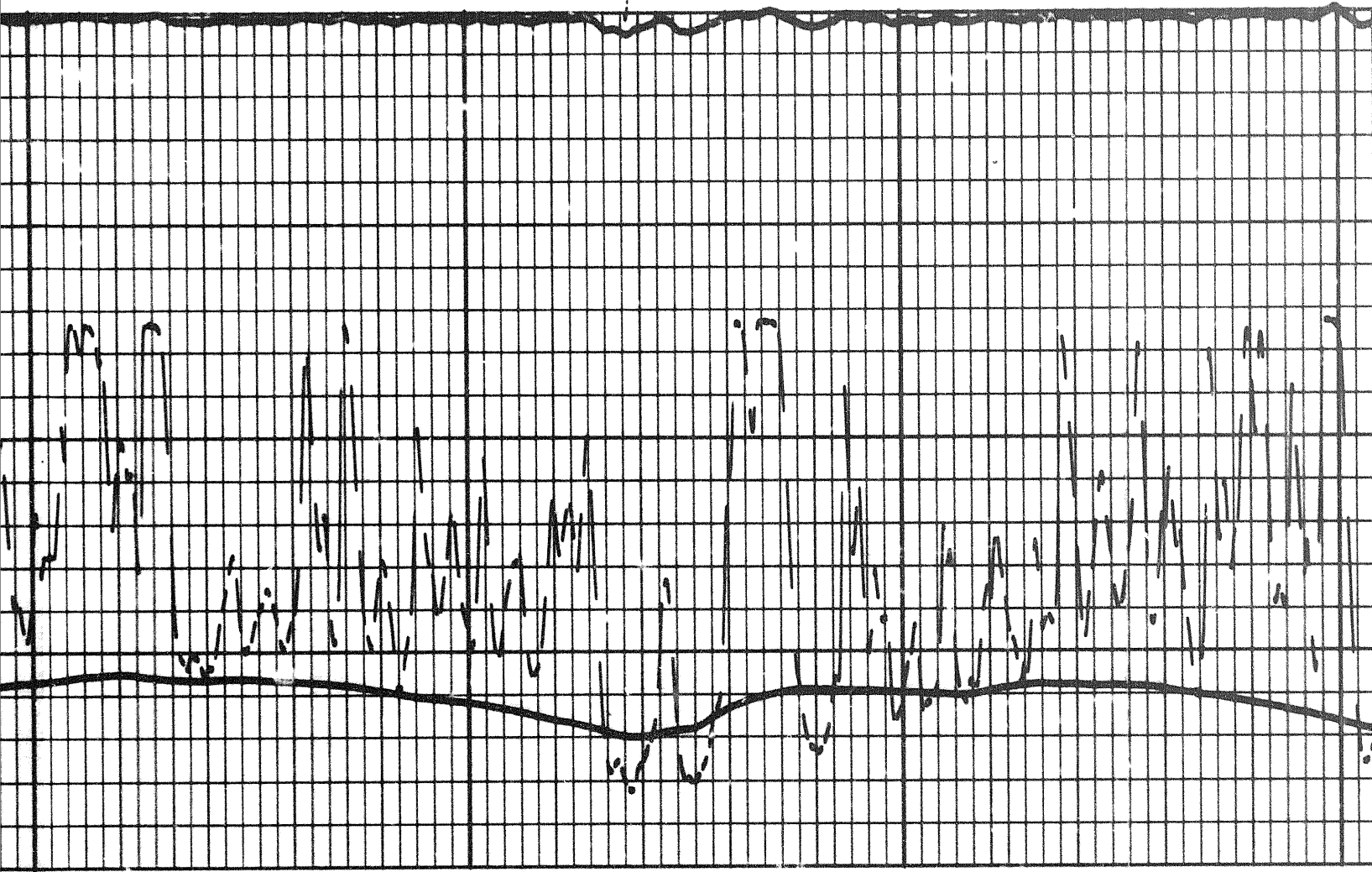




13300

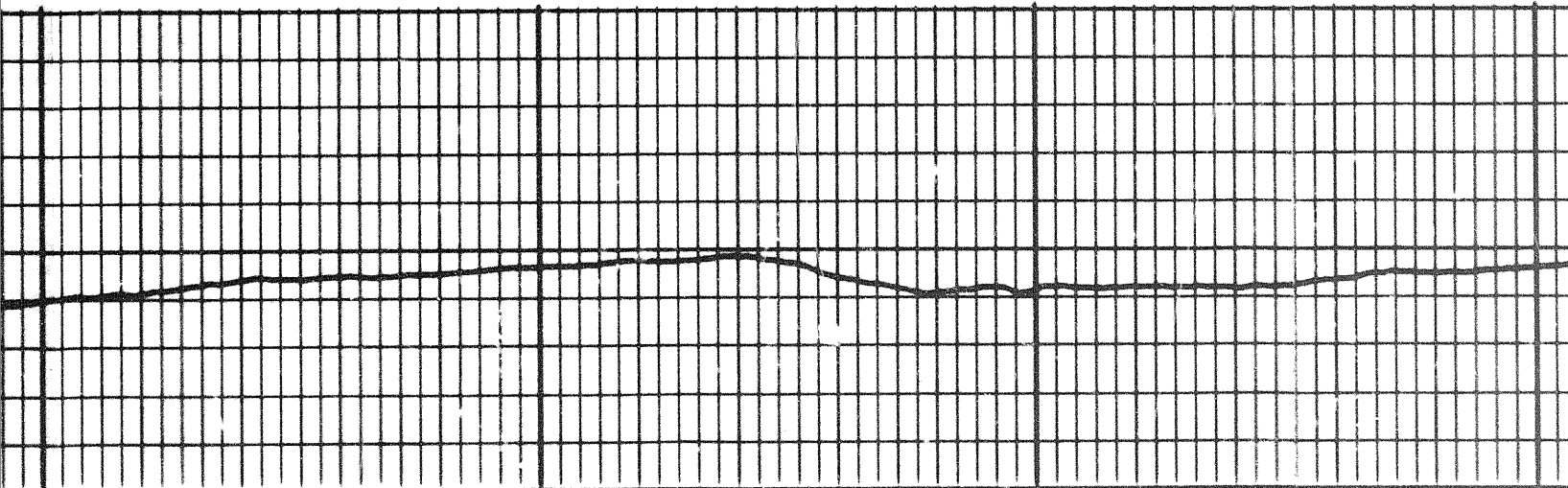
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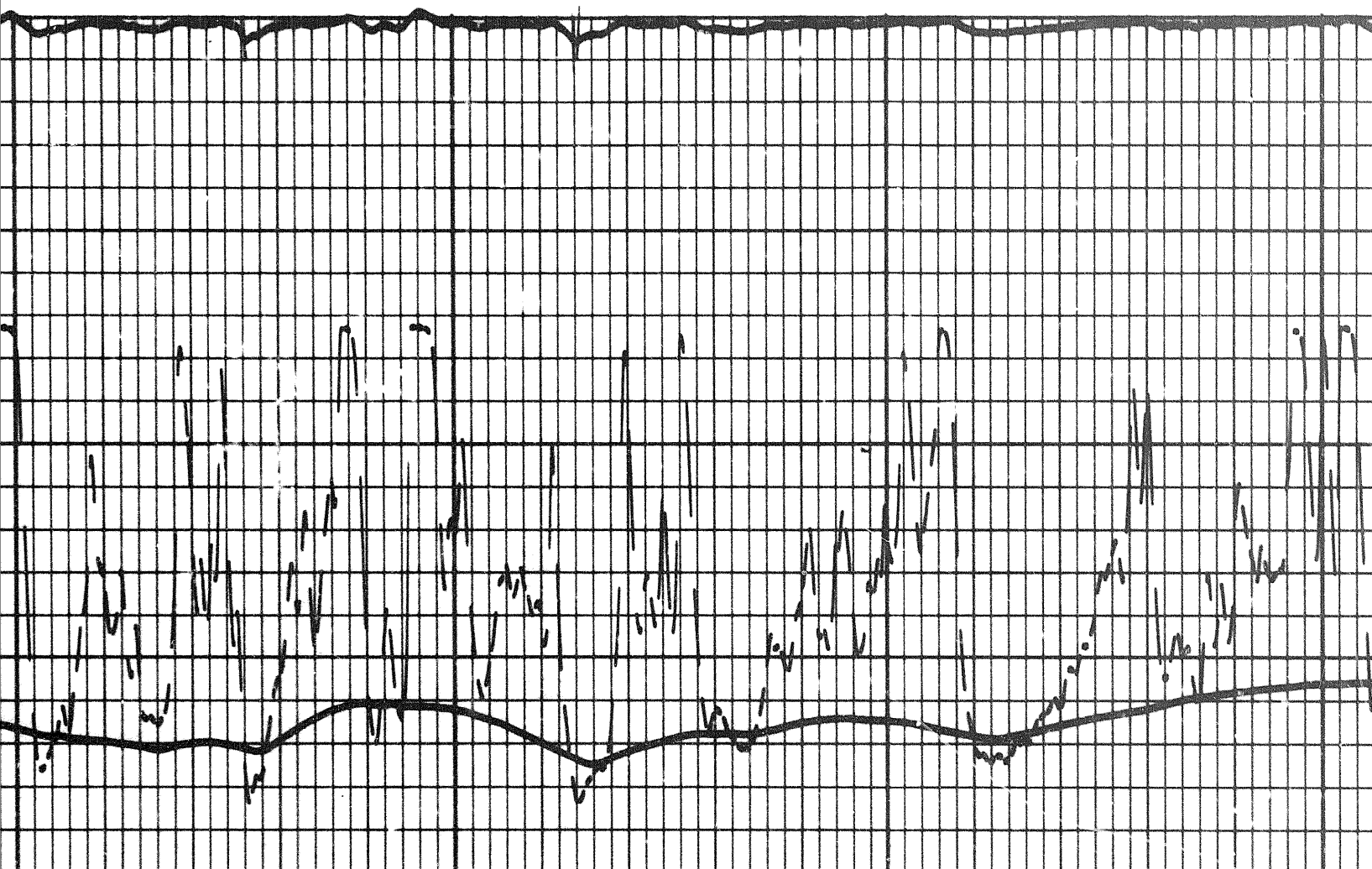




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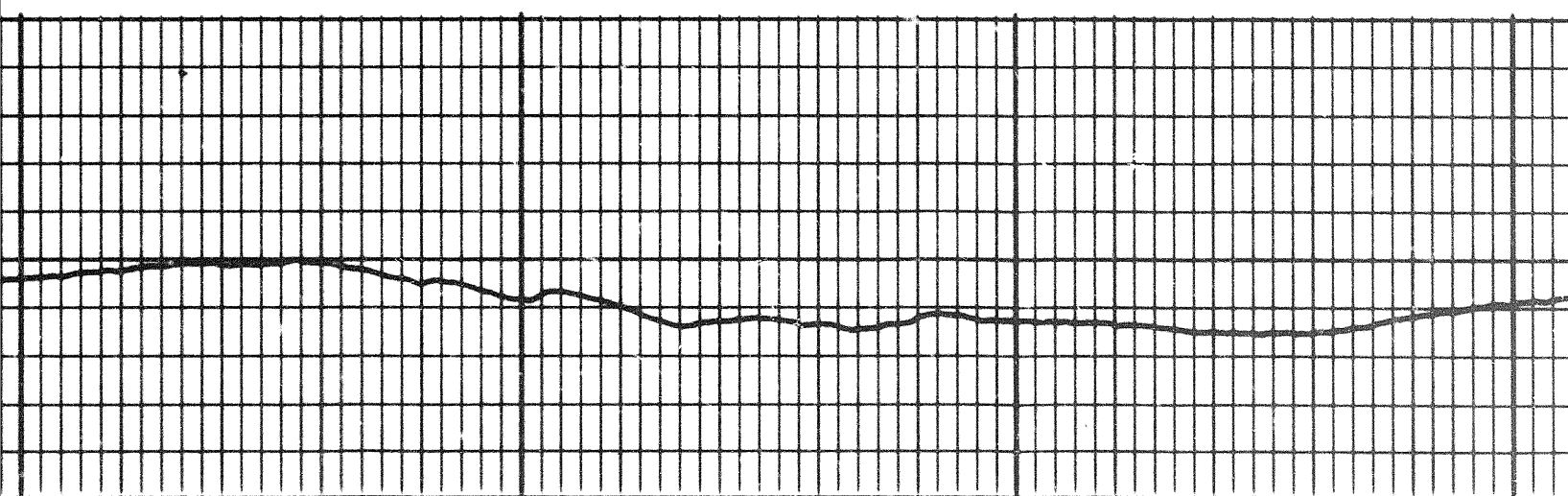
13500





13600

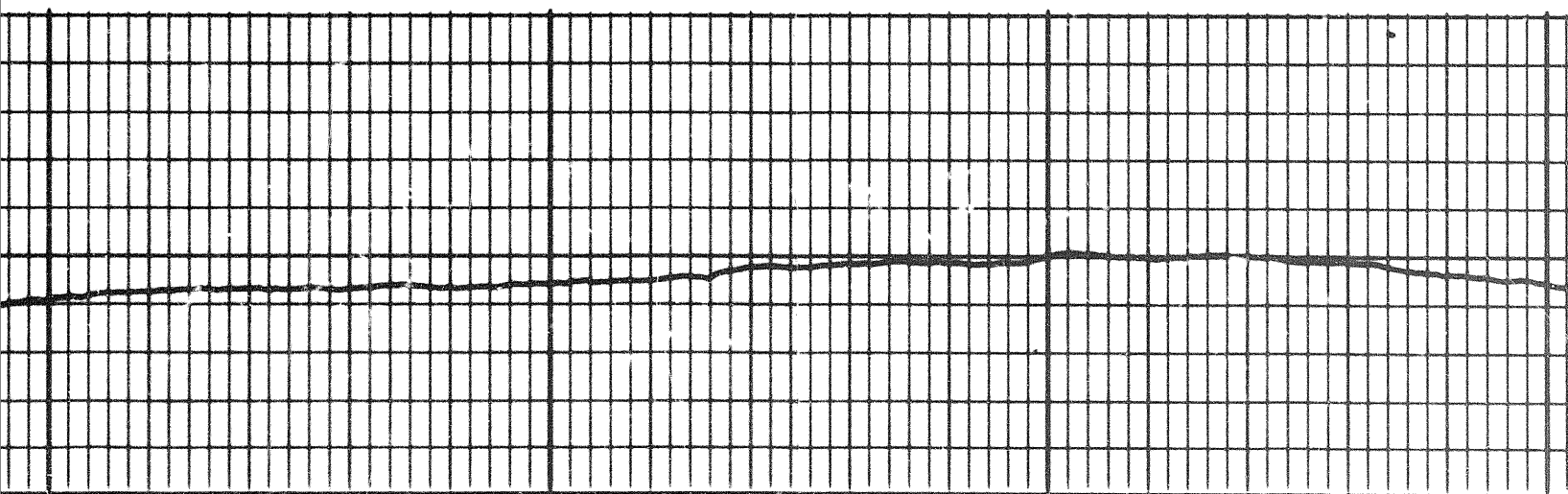
13700

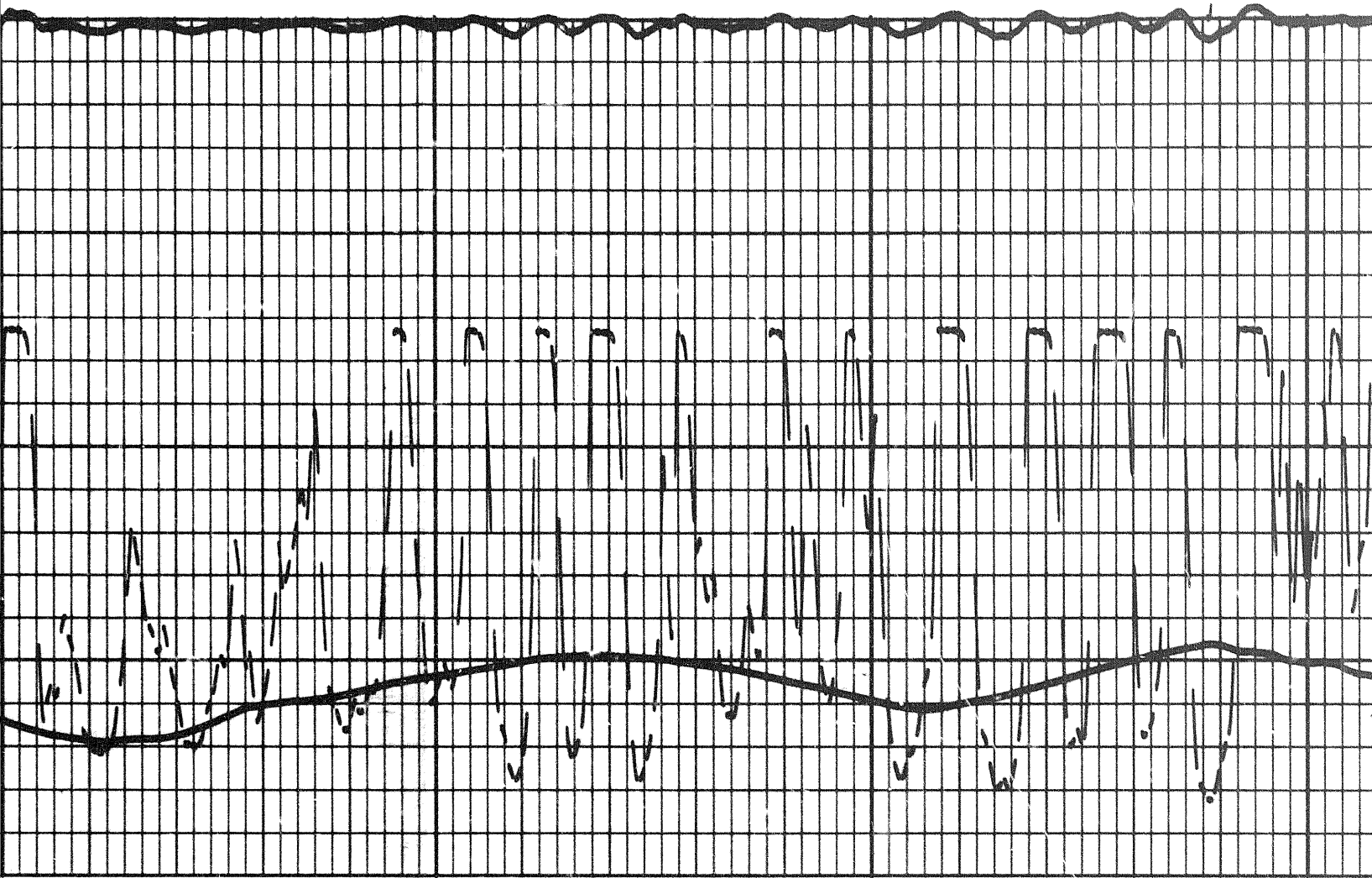




13700

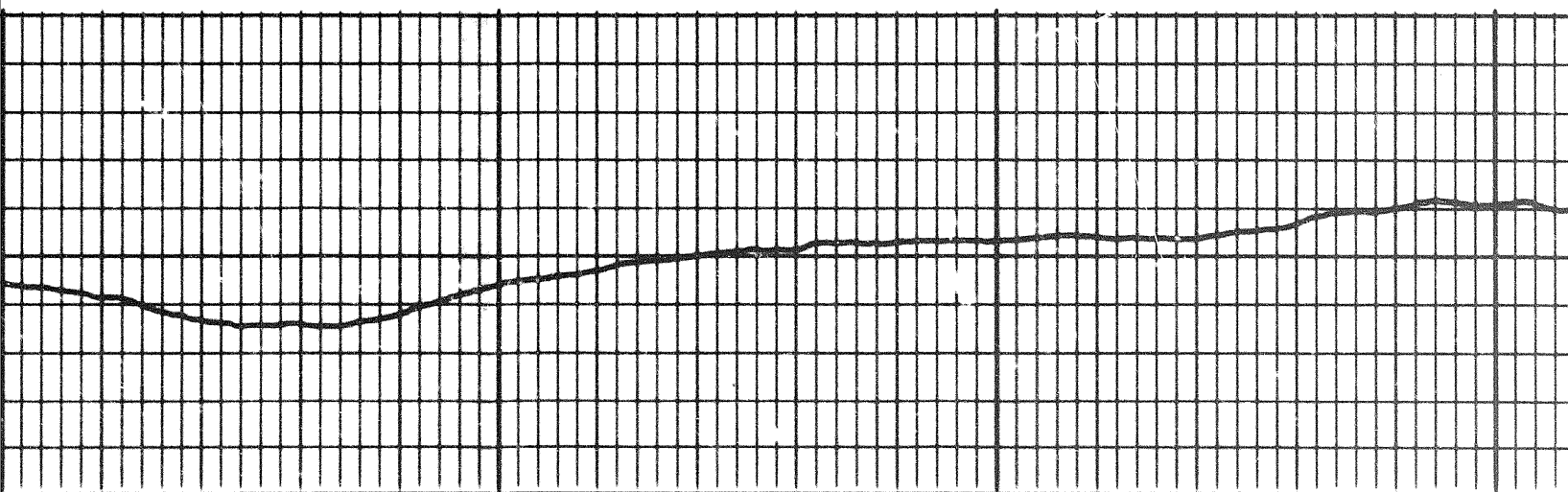
13800





13900

14000

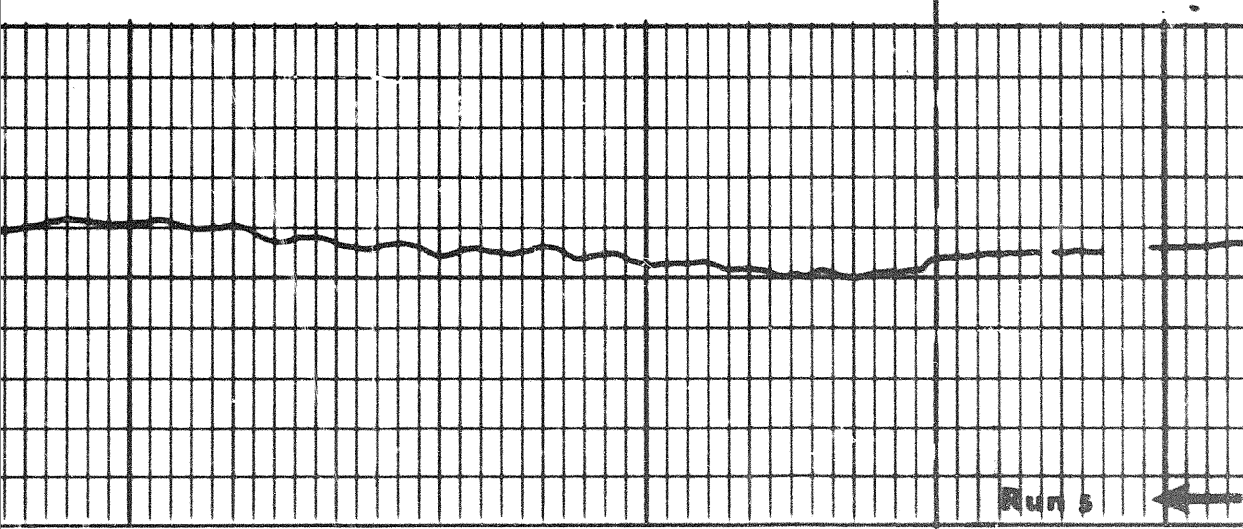


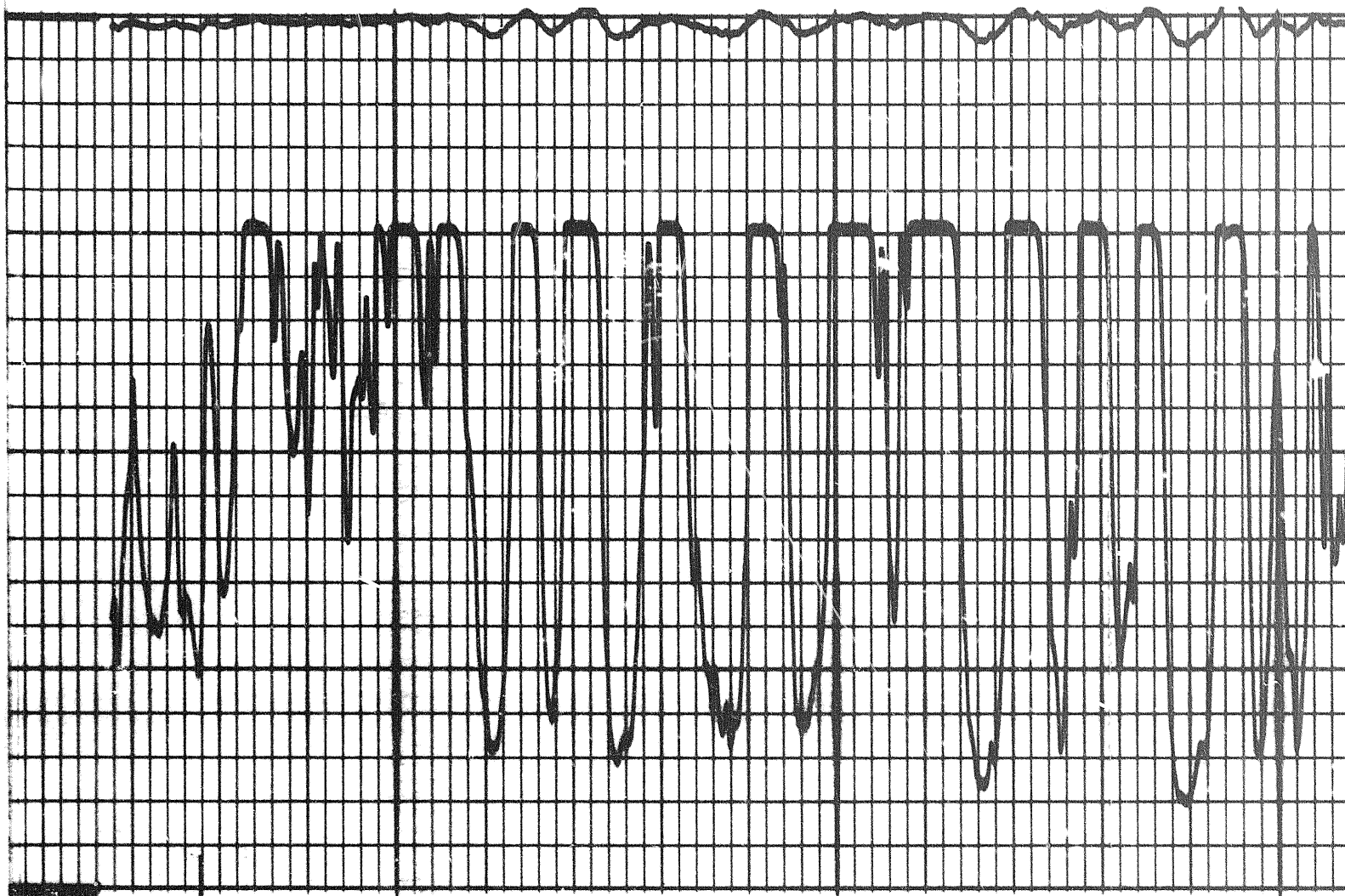


14000

FR

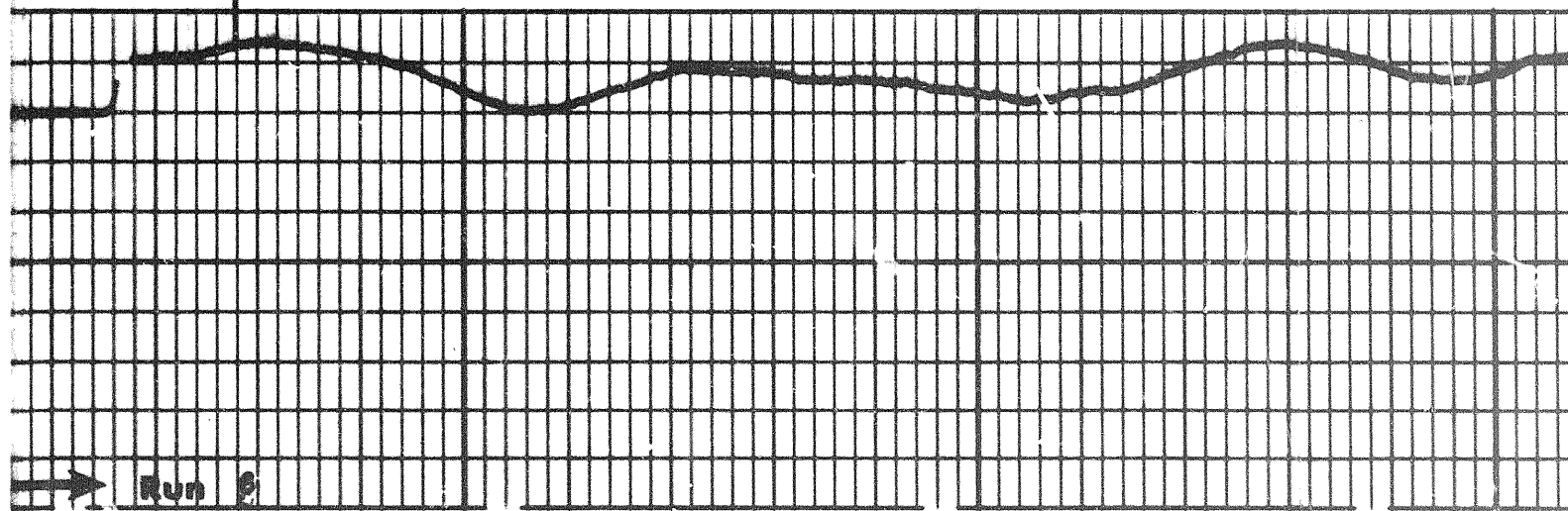
14100



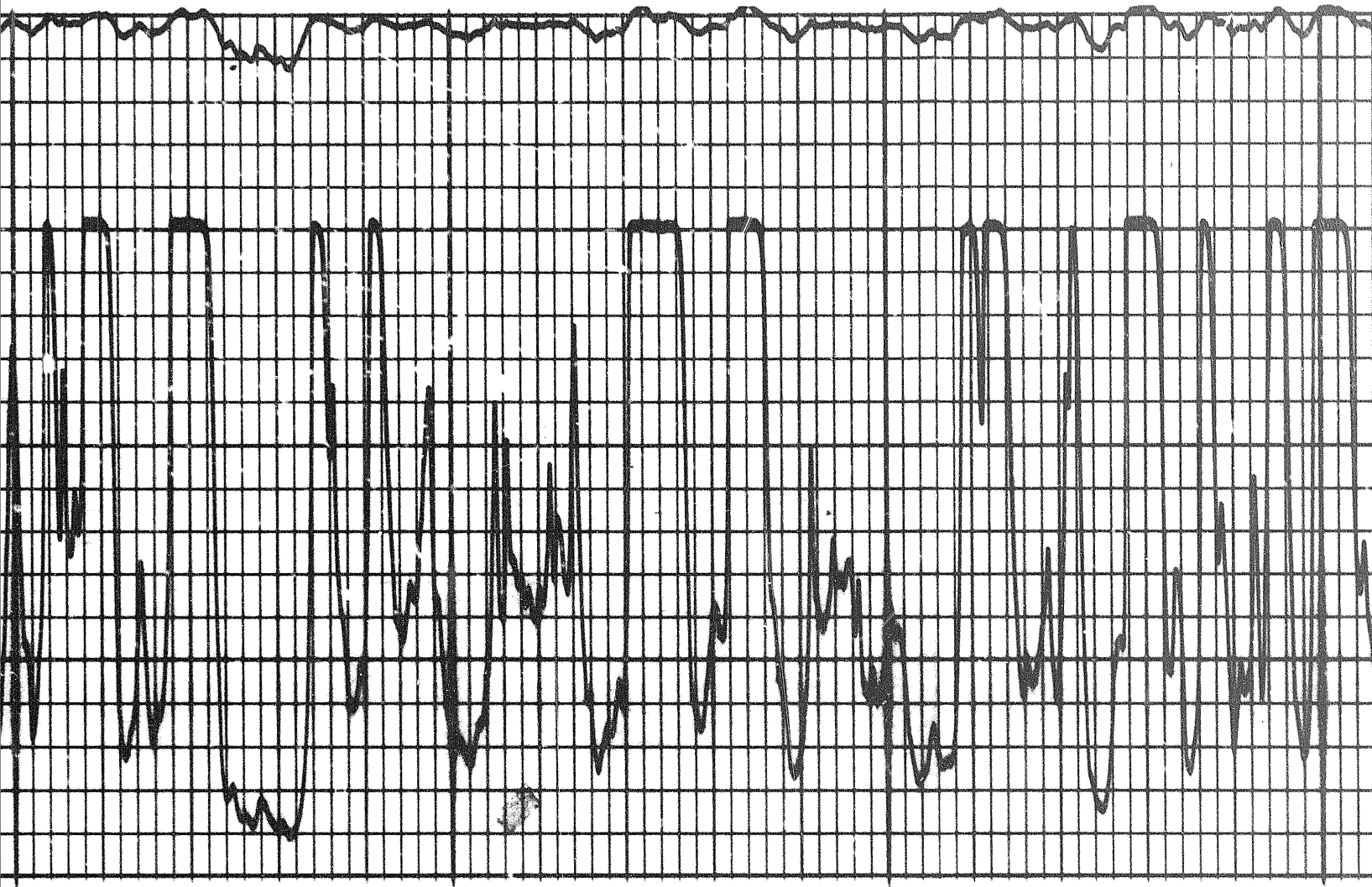


13900

14000

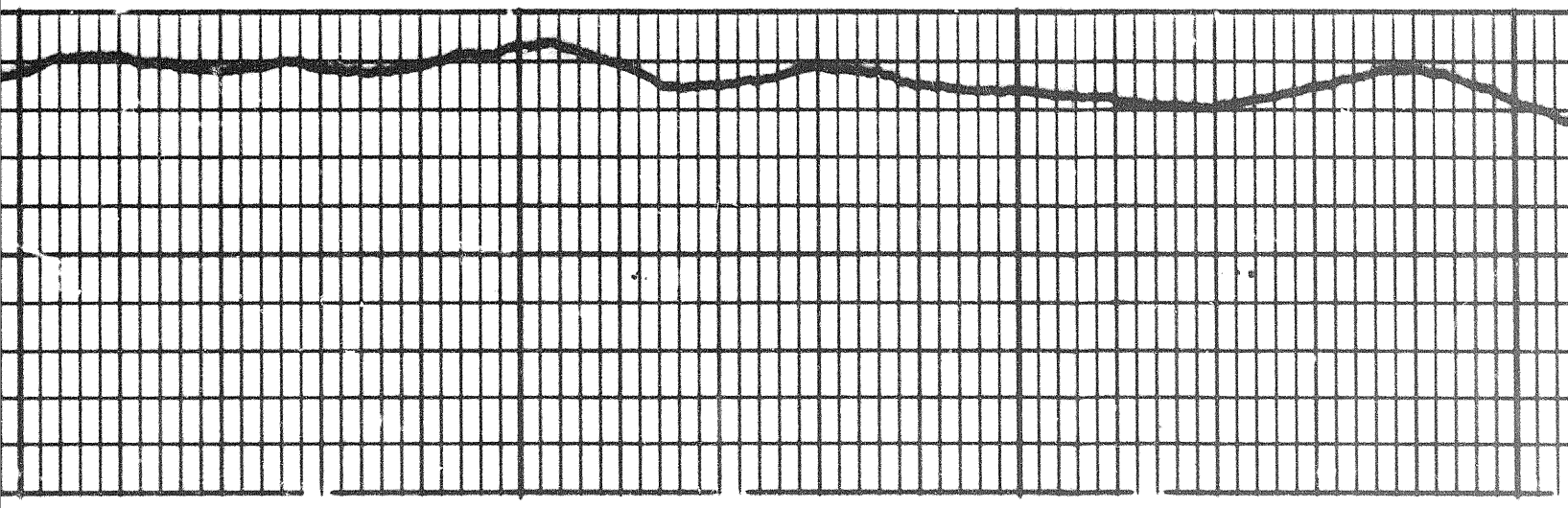


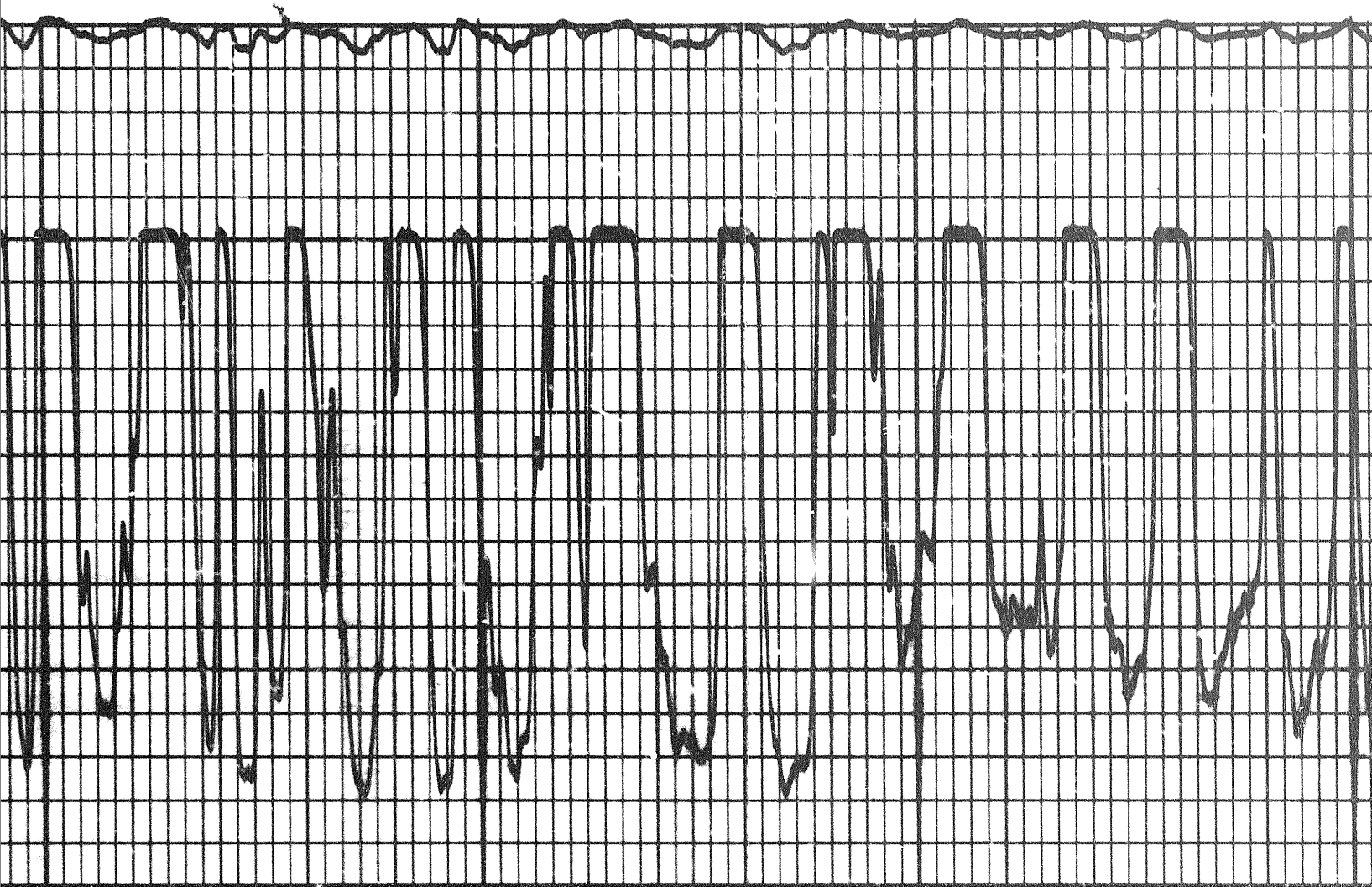
→ Run 9



000

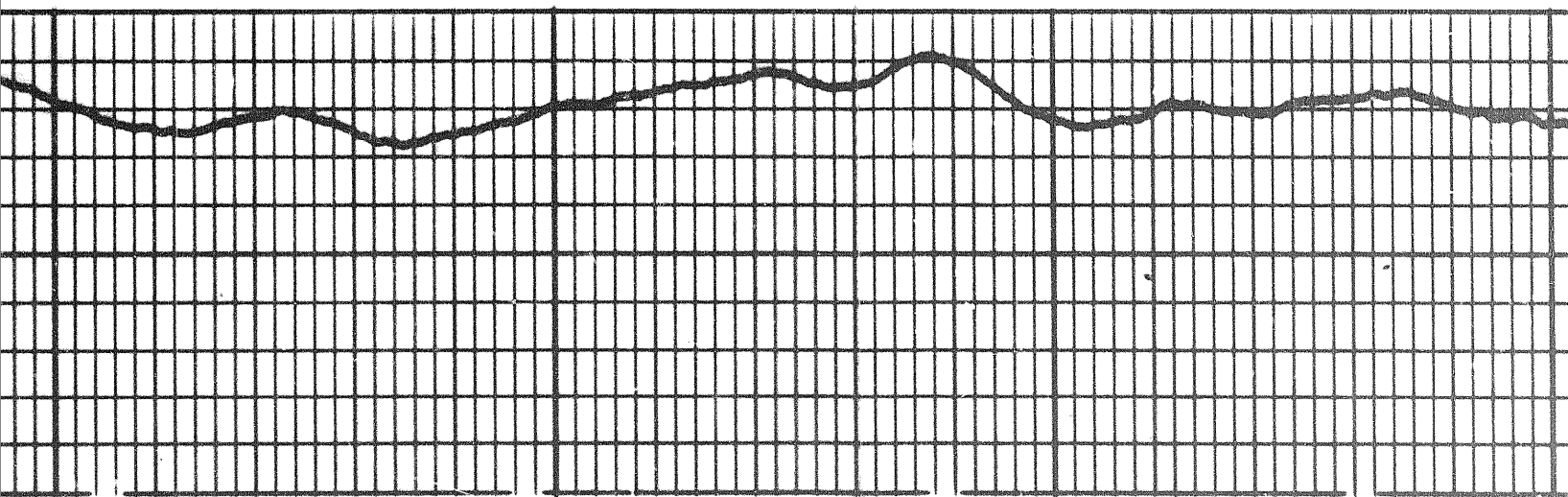
1400

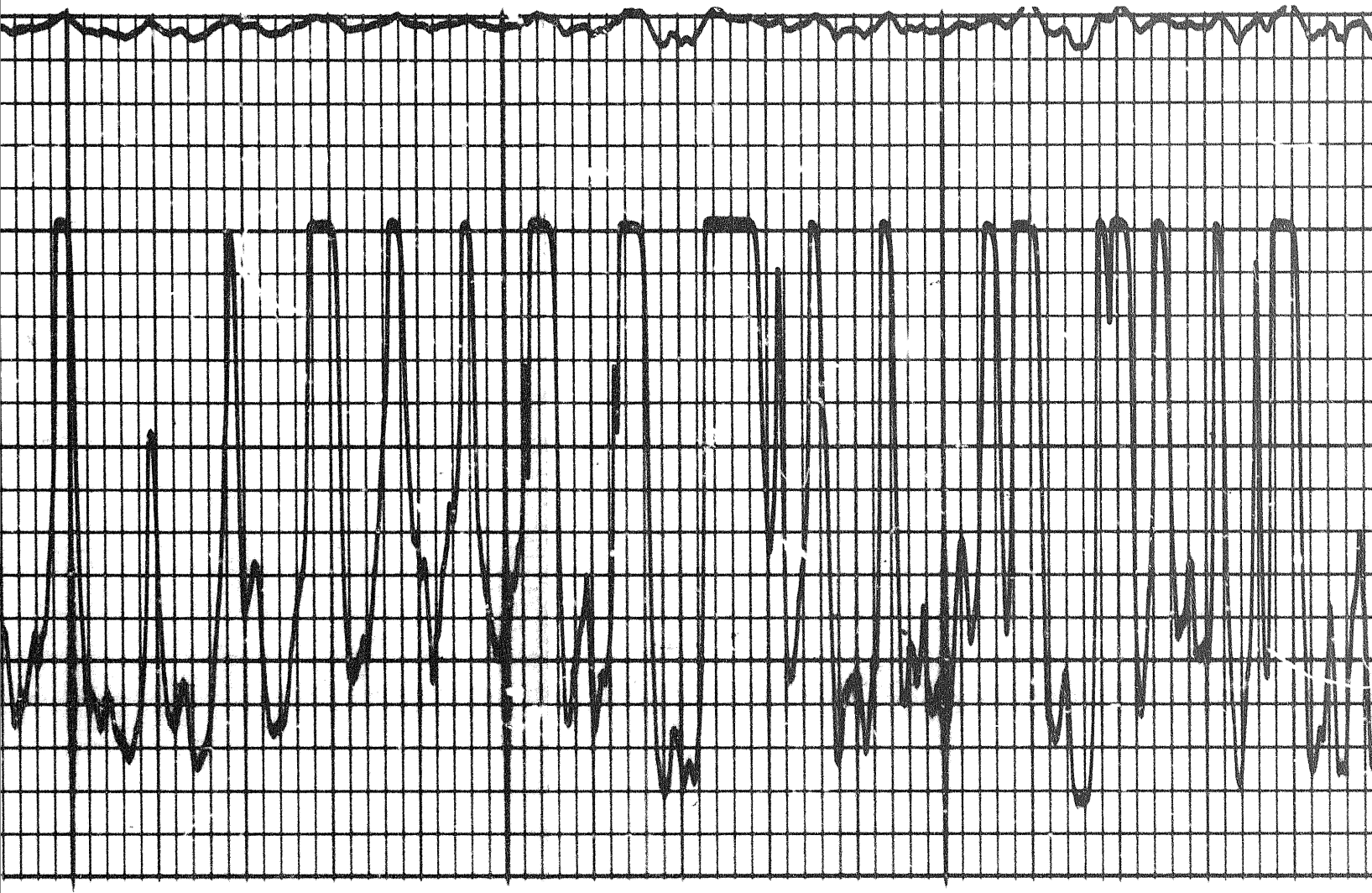




14200

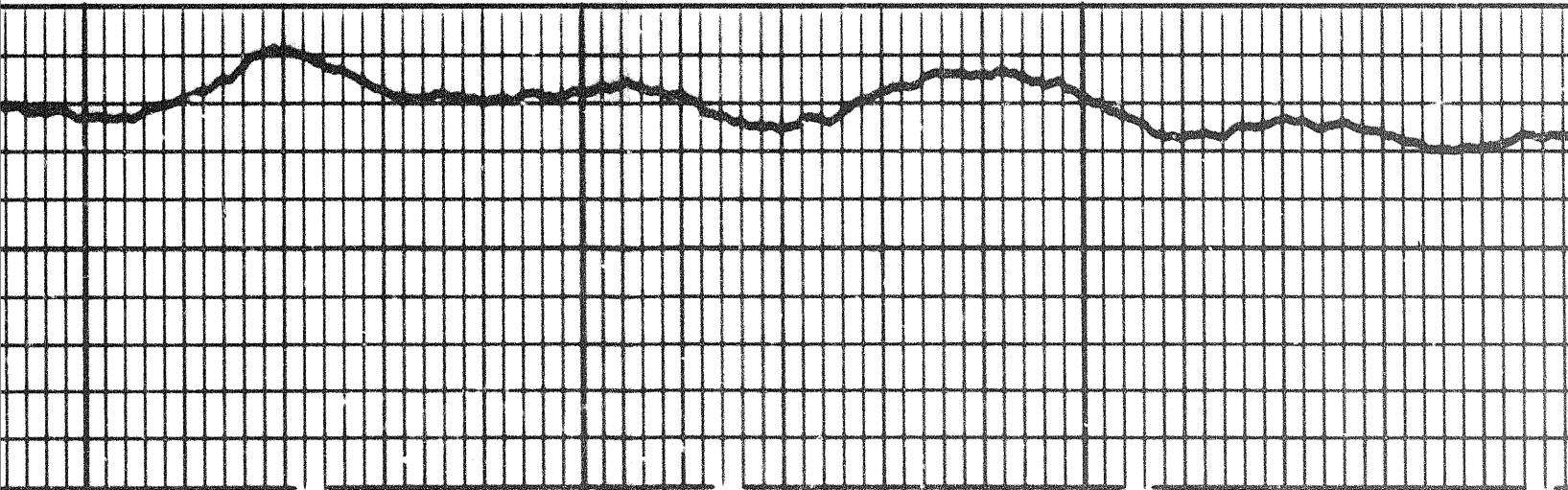
1430

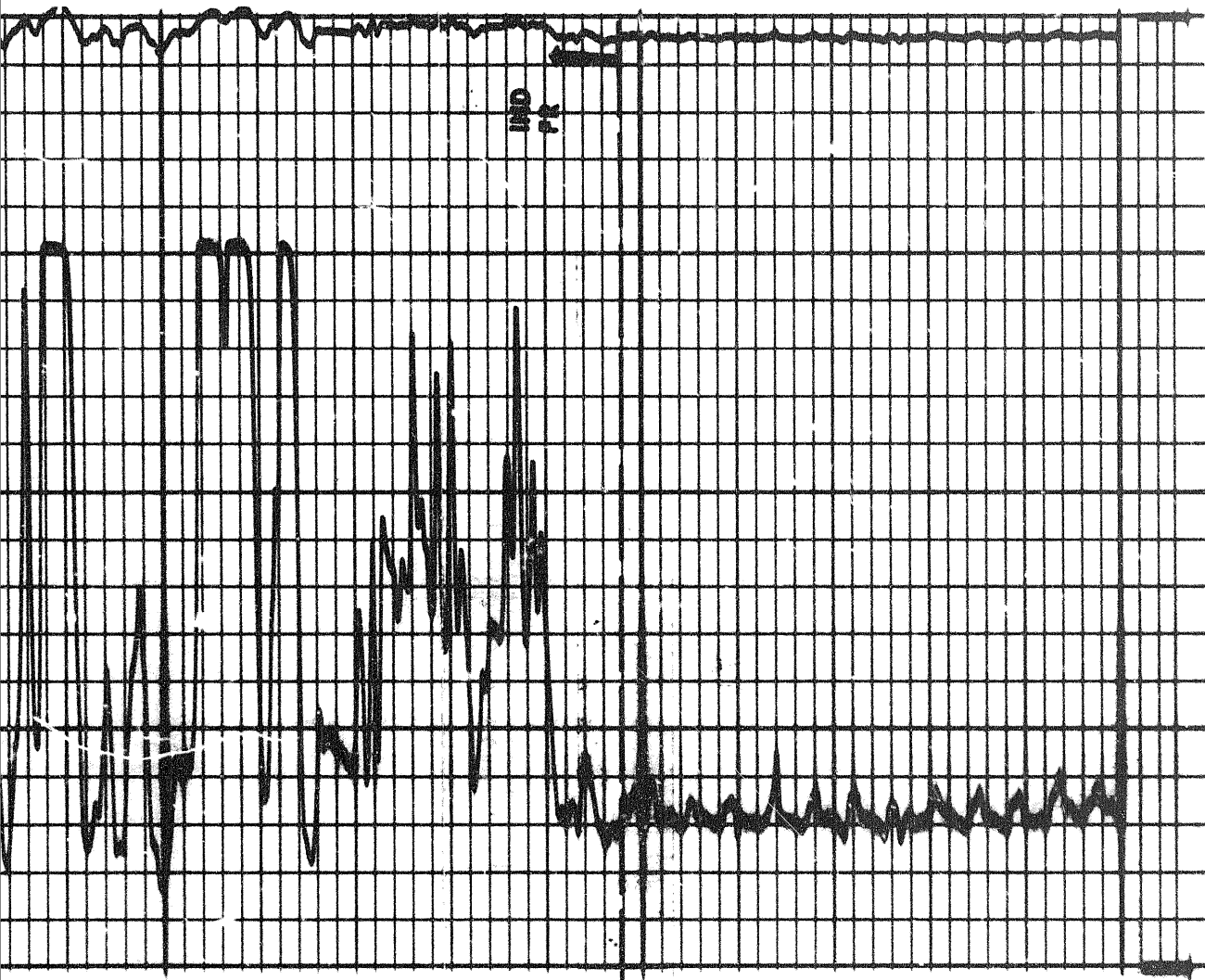




14300

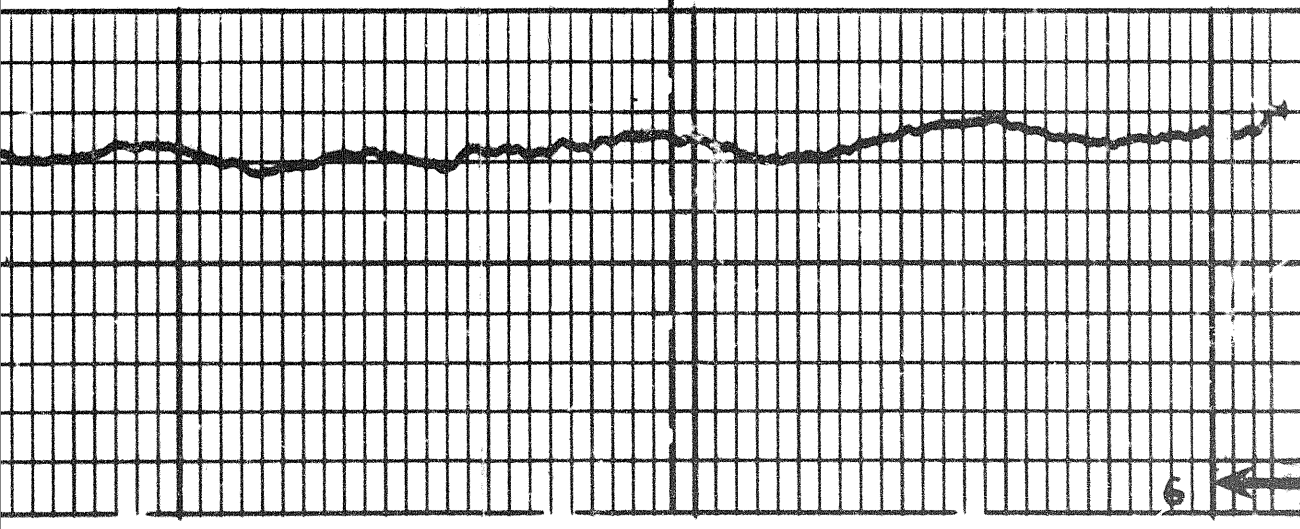
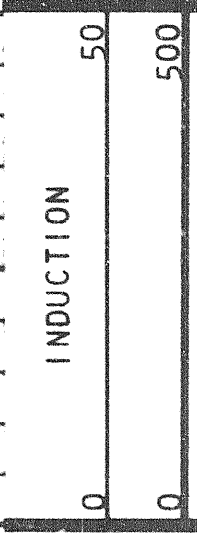
14400



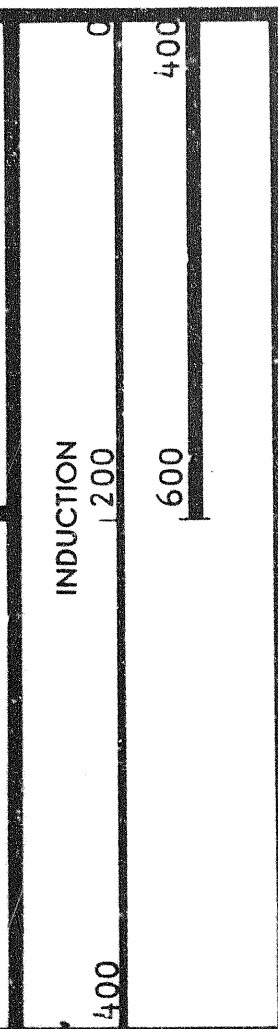
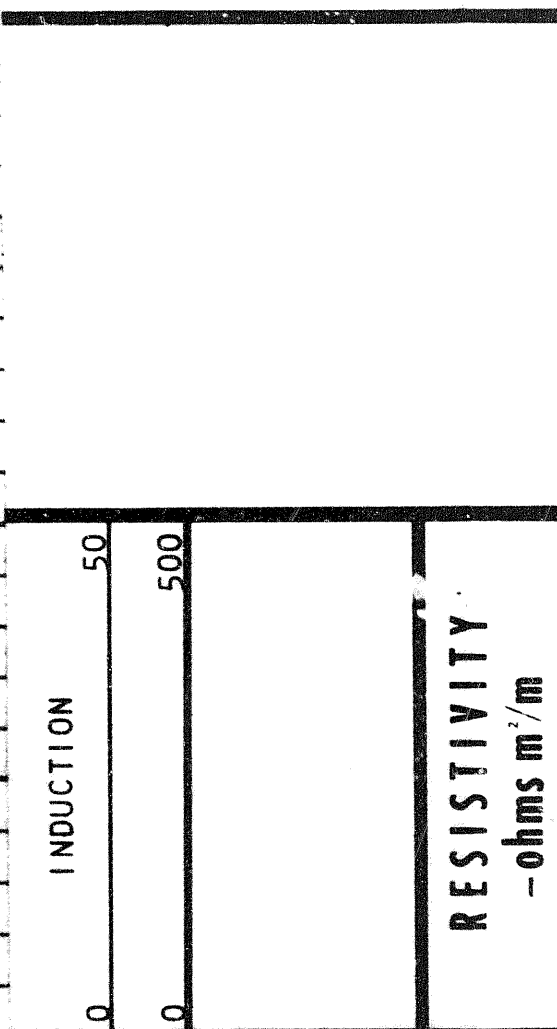
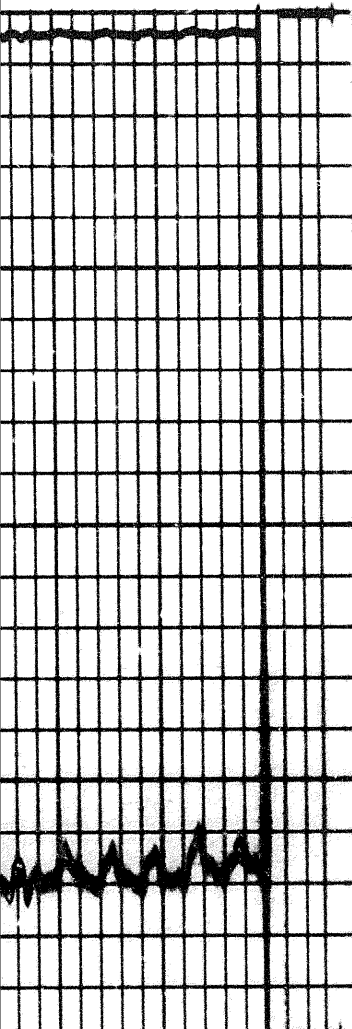


IND
PK

4500



6



INDUCTION
0 50

RESISTIVITY
- ohms m²/m
0 500

SPONTANEOUS-POTENTIAL
millivolts
0 20

CONDUCTIVITY
millimhos / m = $\frac{1000}{\text{ohms m}^2/\text{m}}$
0 600

DEPTHS

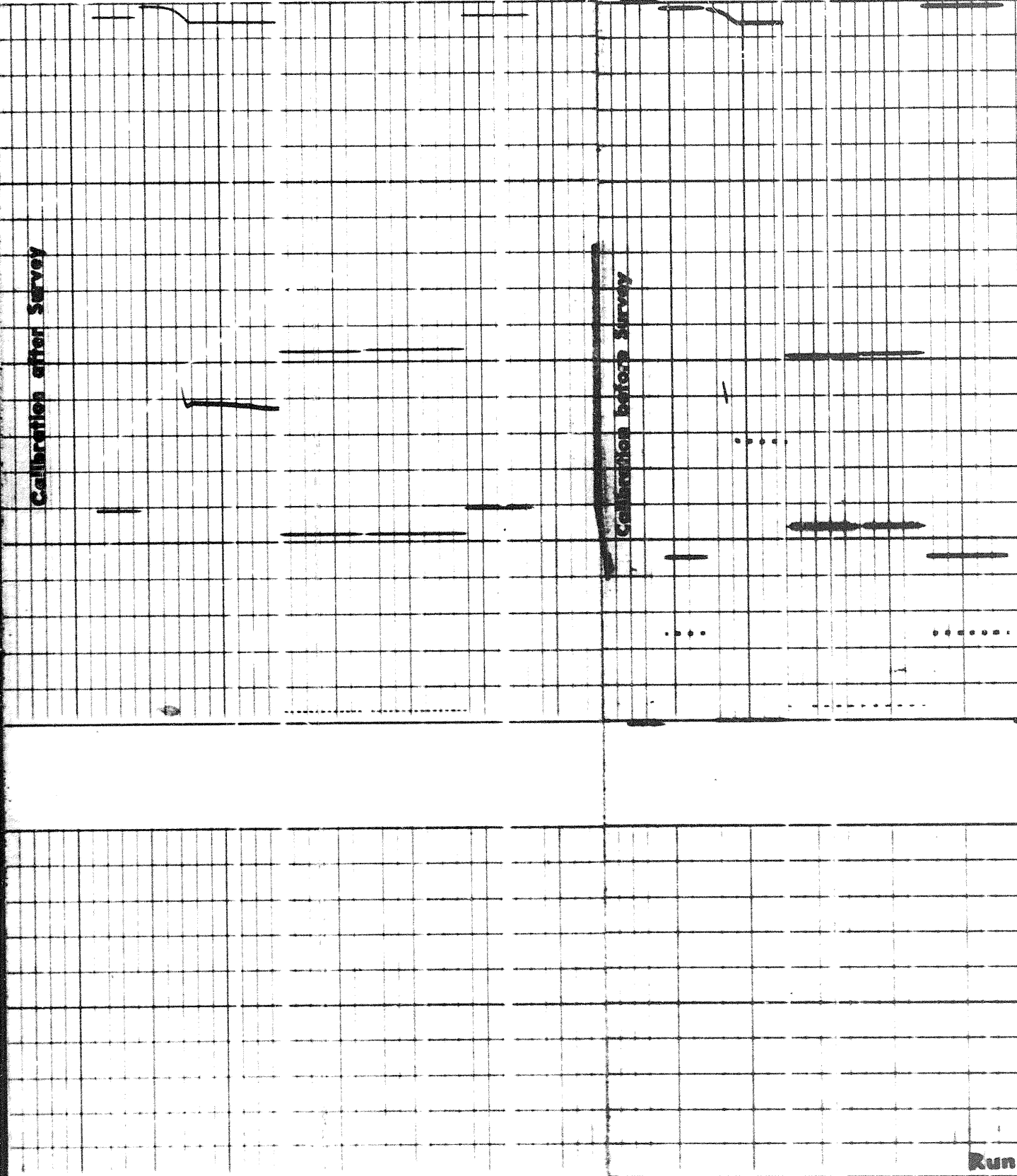
COMPANY CANADA SOUTHERN PETROLEUM LIMITED

Rm OF SOC FR 14498
 Rmf OF SOC TD 14507
 Rmc OF DRLR TD 14495
 BHT OF Elev.: 1446 1

WELL CANADA SOUTHERN ET AL N BEAVER R Y1-1-27

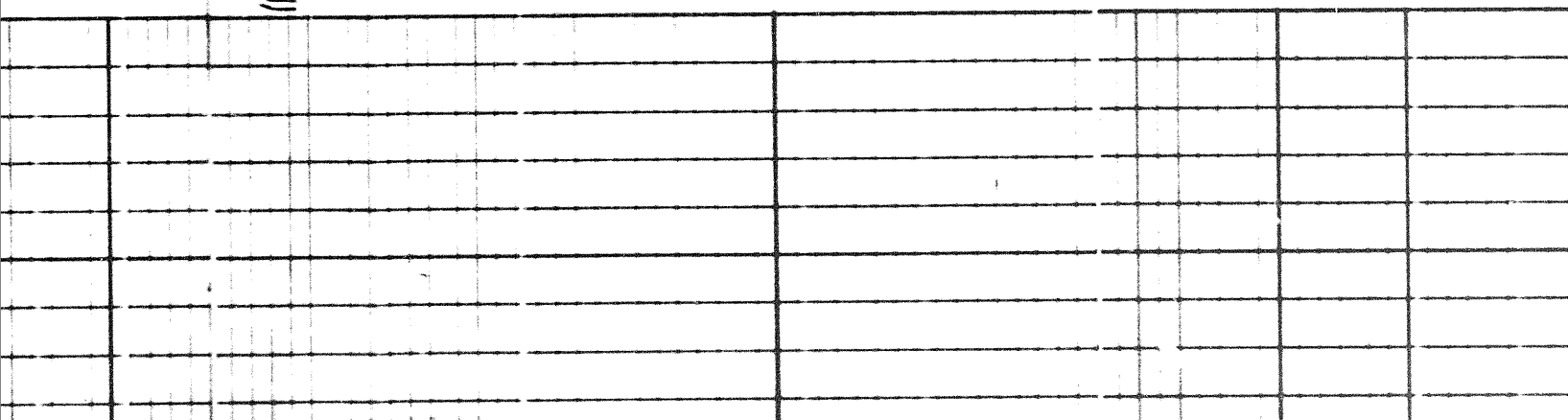
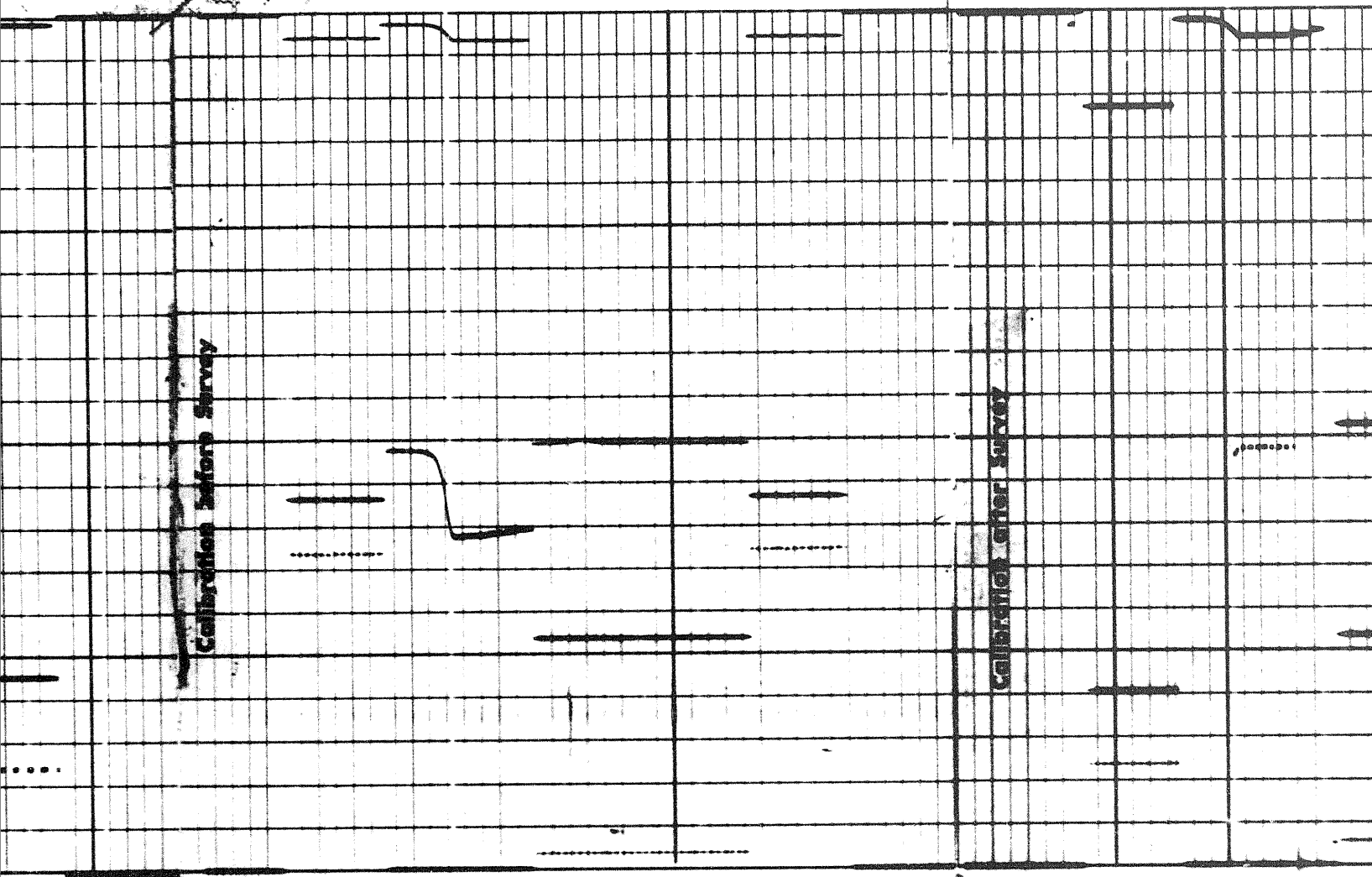
FIELD WILDCAT PROVINCE YUKON TERRITORY

DF GL 1430.0

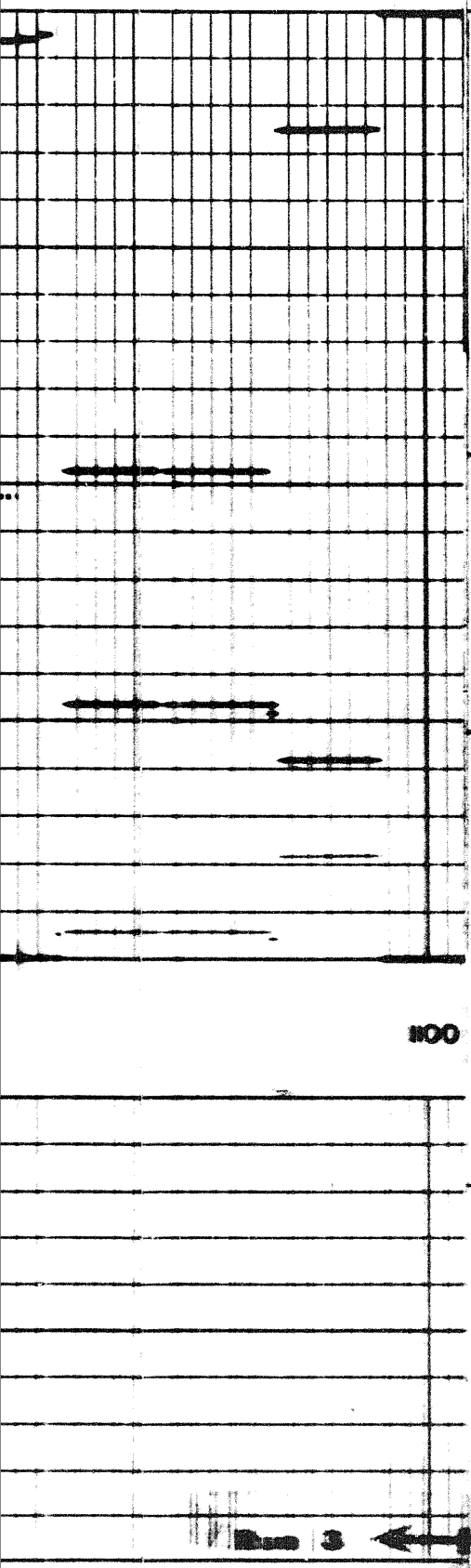


Run

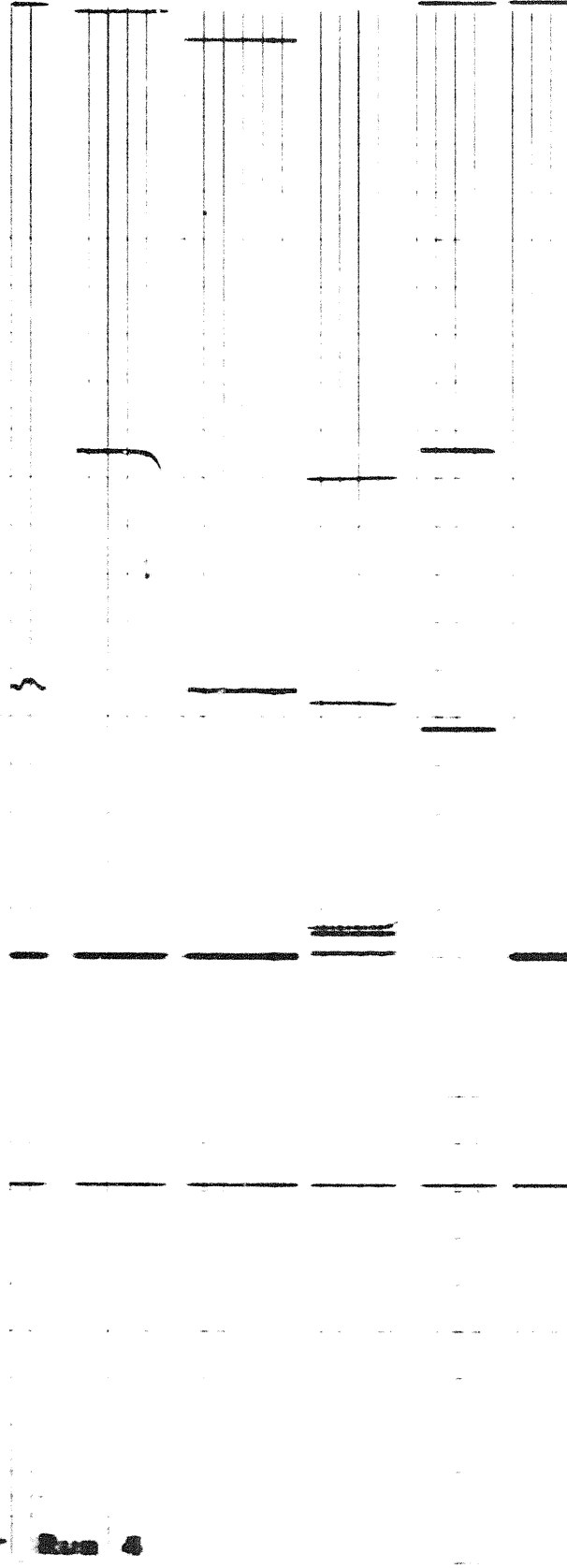
12/15/57



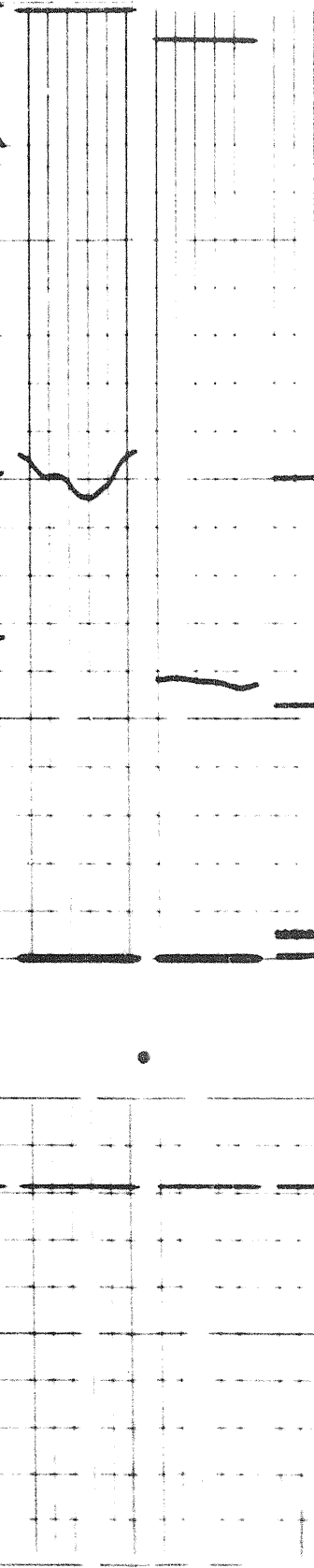
Run 2 ← → Run 3

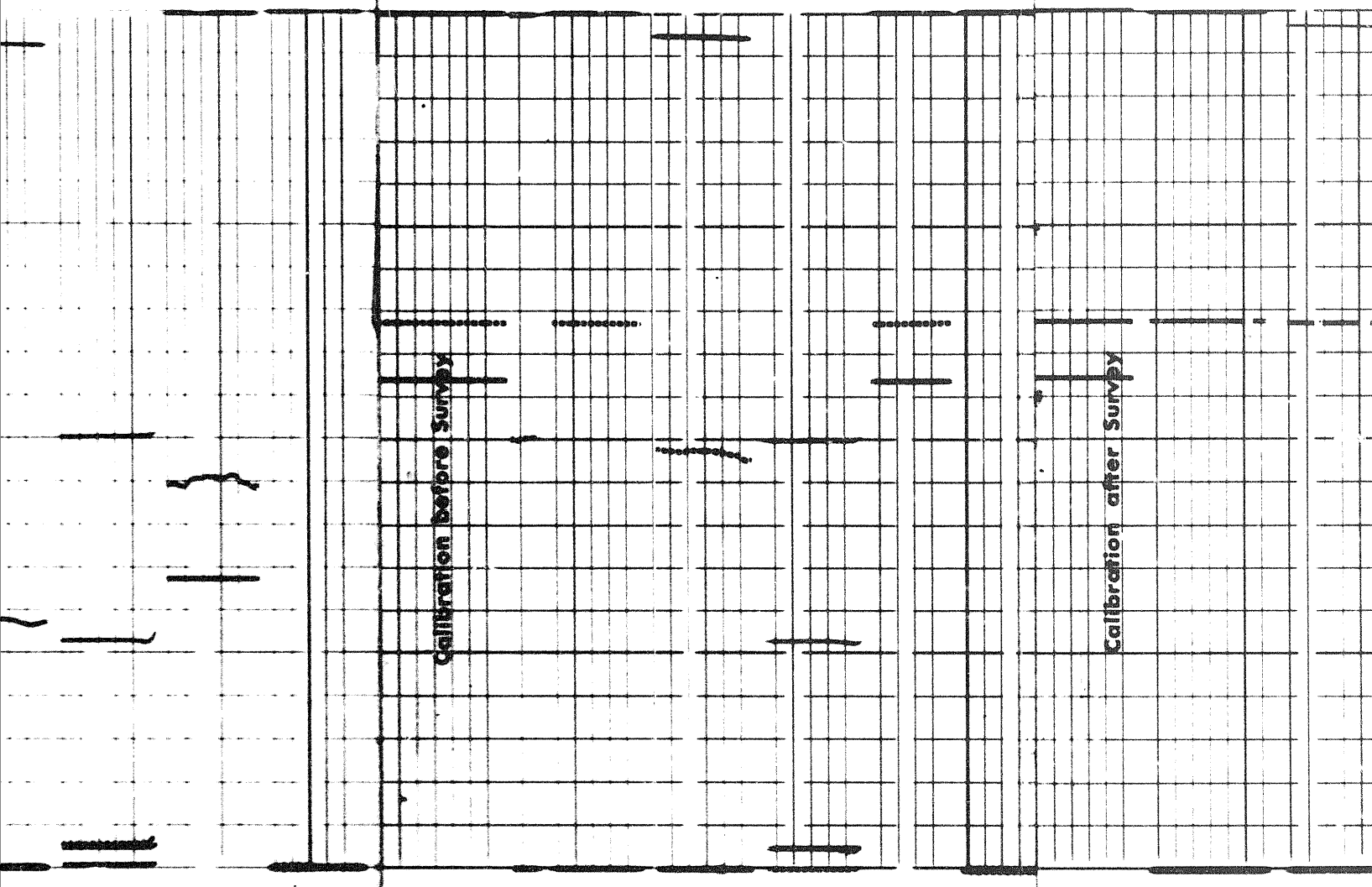


Calibration before Survey



Calibration after Survey





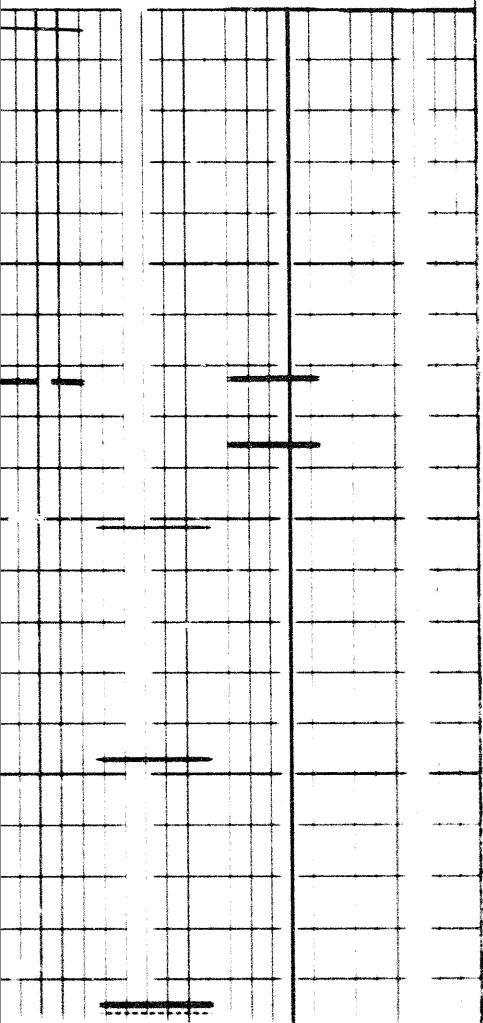
2200

4000

Run 4

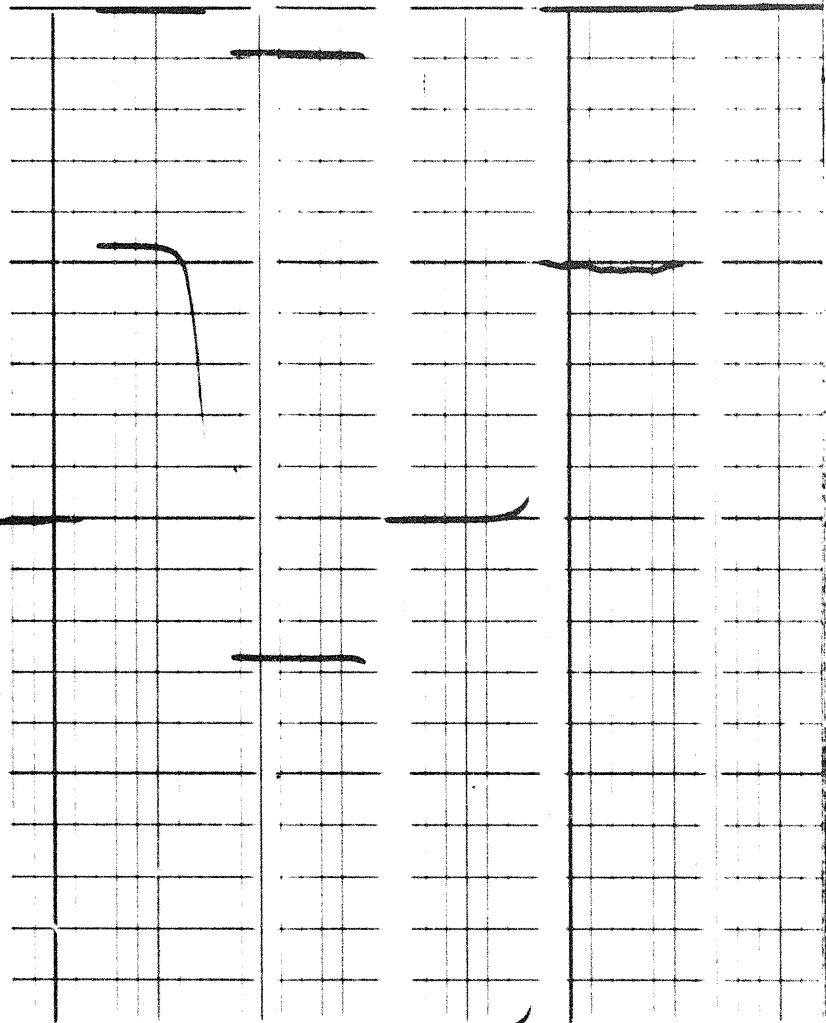


Run 5



2200

CALIBRATION AFTER SURVEY



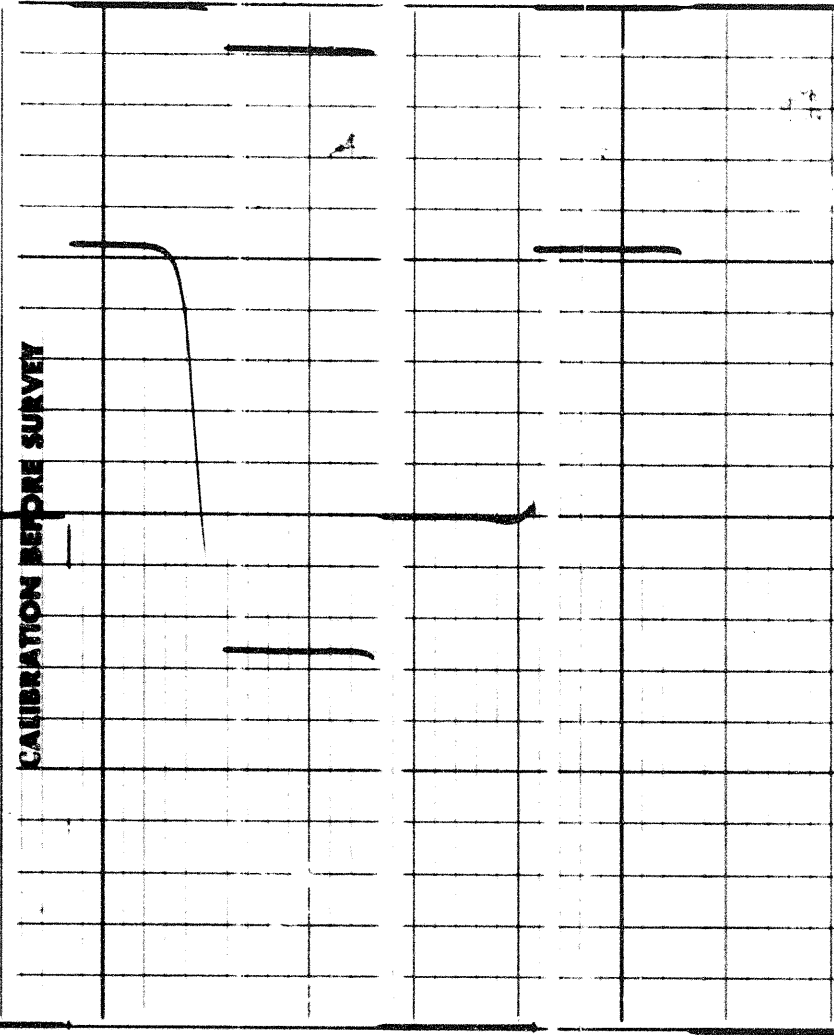
3700

Run 5

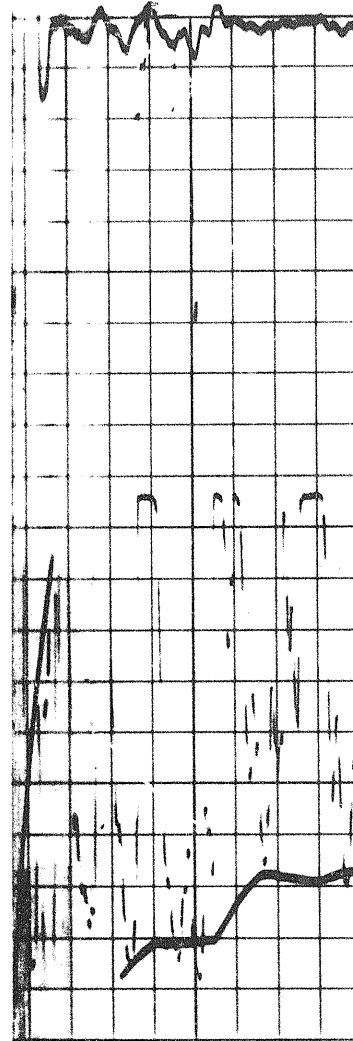
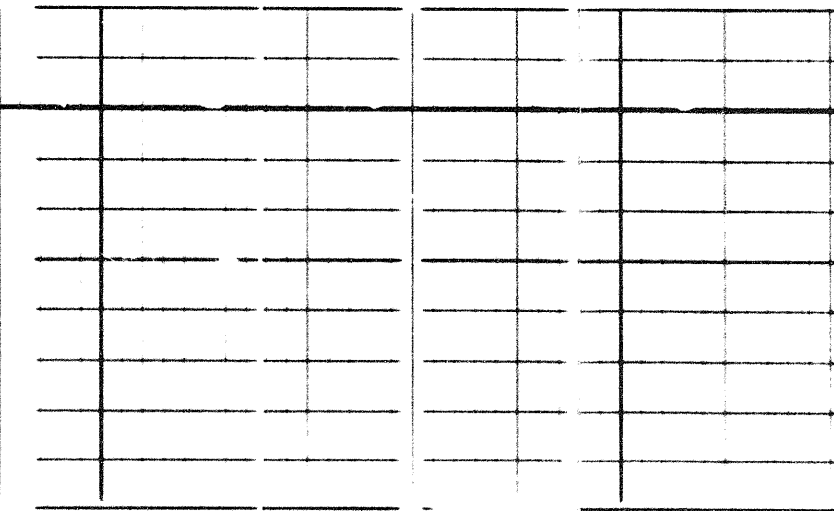


Run 6

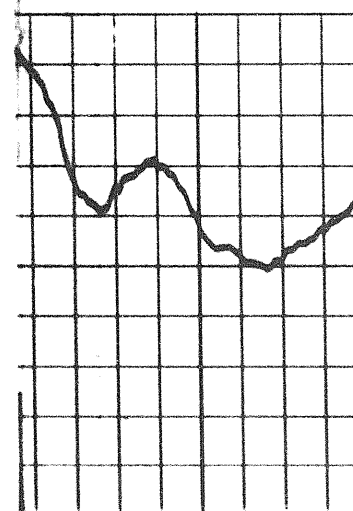
CALIBRATION BEFORE SURVEY



3700



2200



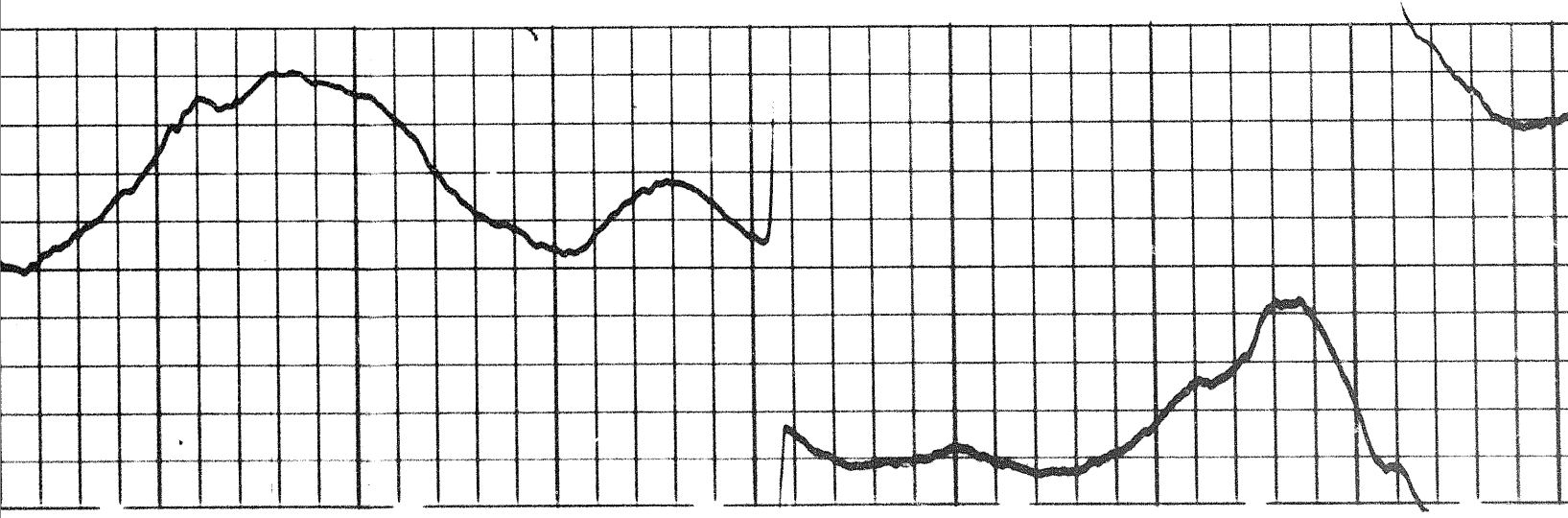


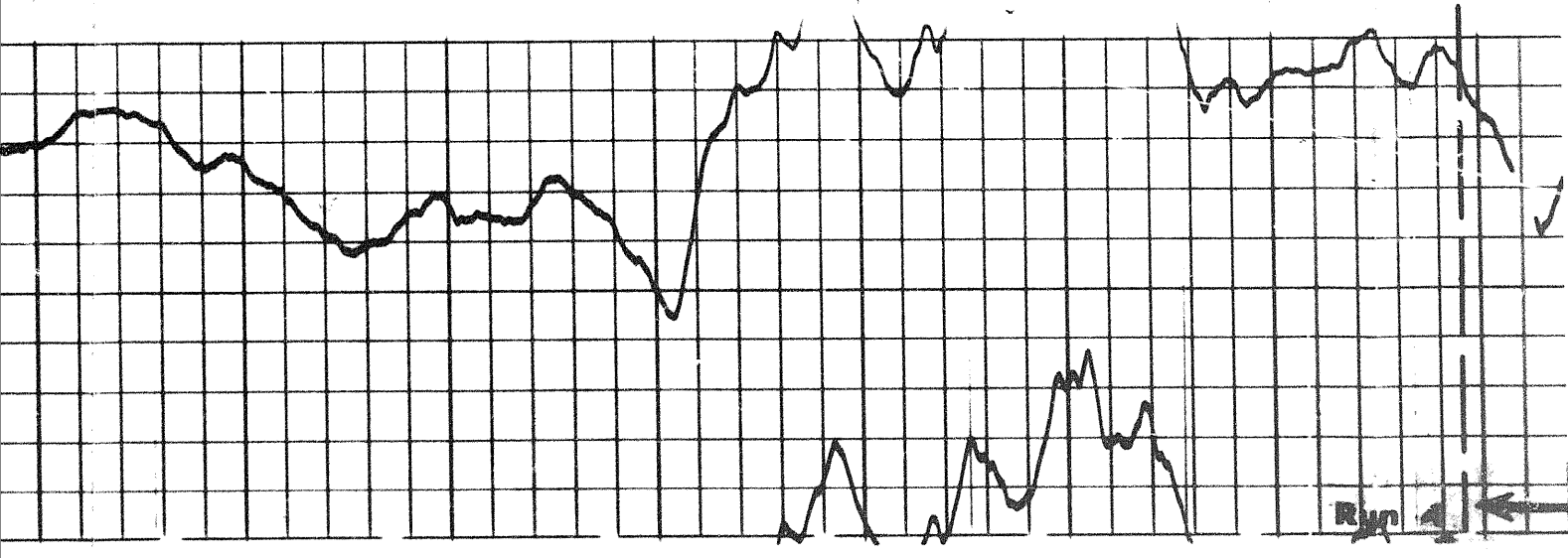
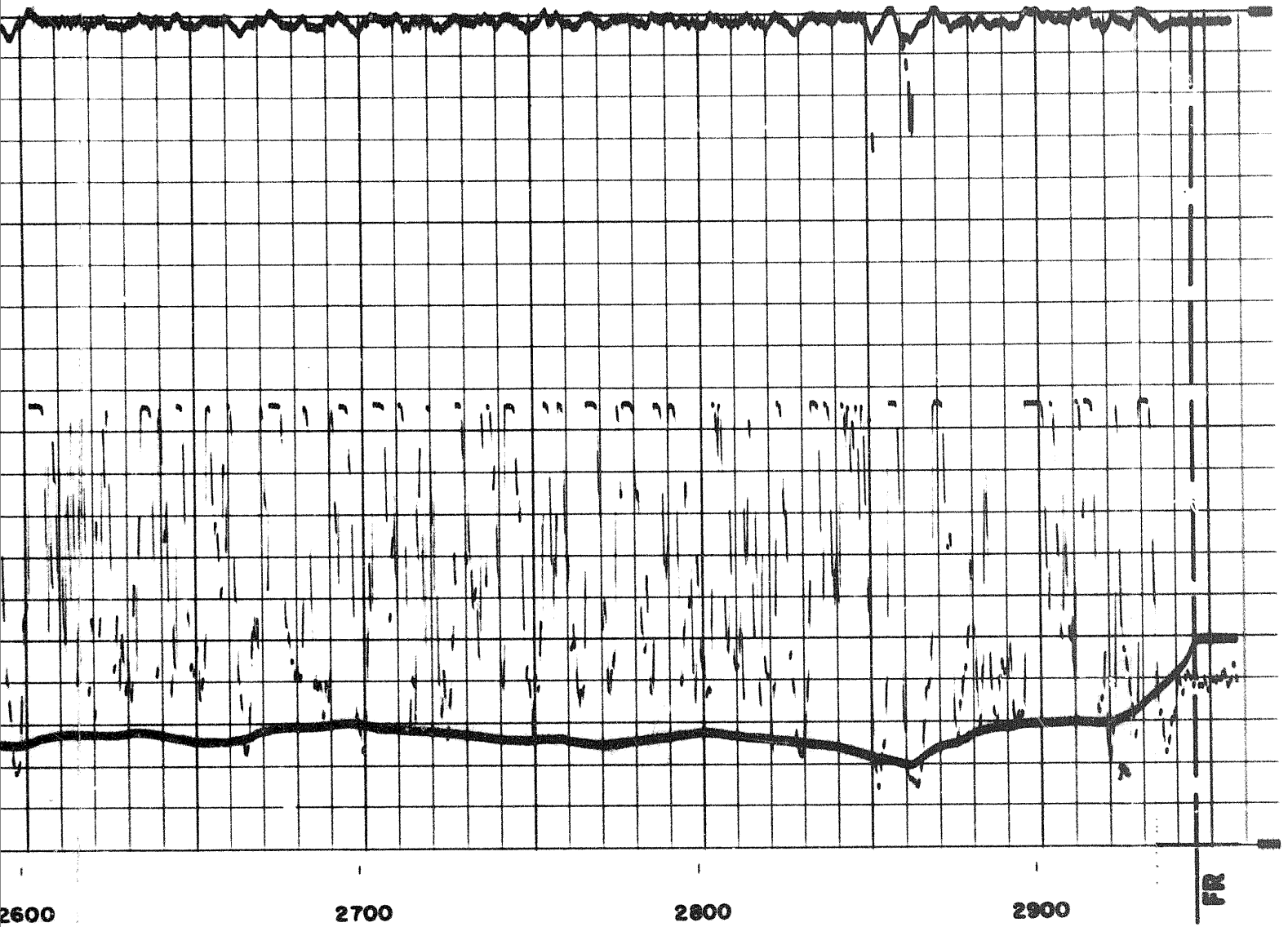
2300

2400

2500

2600





2600

2700

2800

2900

PR

Rxn