

Schlumberger

BOREHOLE COMPENSATED SONIC LOG

COMPANY E G & G

WELL INEL # 1

FIELD WILDCAT

COUNTY BUTTE STATE IDAHO

Table with columns: LOCATION, API SERIAL NO., SEC., TWP, RANGE

Other Services: DIL, FDC/CNL/GR, BGT-CALIPER, HRT

Permanent Datum: GROUND LEVEL; Elev.: 4874.8
Log Measured From: GL 0 Ft. Above Perm. Datum
Drilling Measured From: GL

Elev.: K.B. 4895
D.F.
G.L. 4874.8

Main data table with columns: Date, Run No., Depth-Driller, Depth-Logger (Schl.), etc.

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

Log data table with columns: Run No., Service Order No., Fluid Level, EQUIPMENT DATA, SCALE CHANGES, LOGGING DATA, REMARKS

REMARKS: RUN 2 - MAX CALIPER READING 15.8 IN. INVALID INTEGRATED TRAVEL TIME AT 9500-80 DUE TO CYCLE SKIP... REPEAT RUN3-GR PACKUP SCALE 150-300

CALIBRATION DATA table with columns: BKG. CPS, Source CPS, Tc Sec, DT (US/F)

Interval Transit Time (microseconds per foot) = 1,000,000 API

40.00
140.0

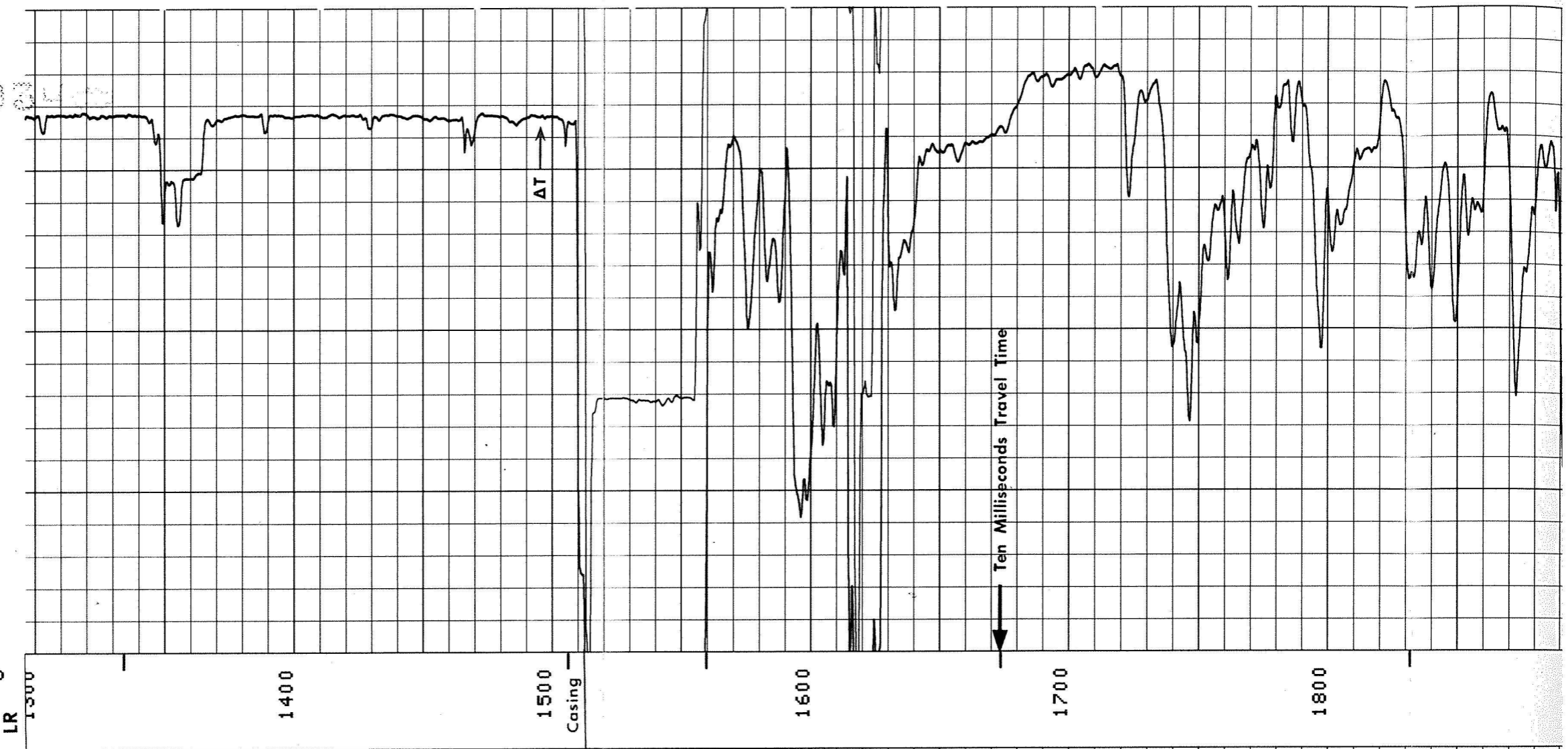
DT (US/F)

140.0
240.0

4 4 4 6 6 6

LR
1300
1400
1500
1600
1700
1800

0740847



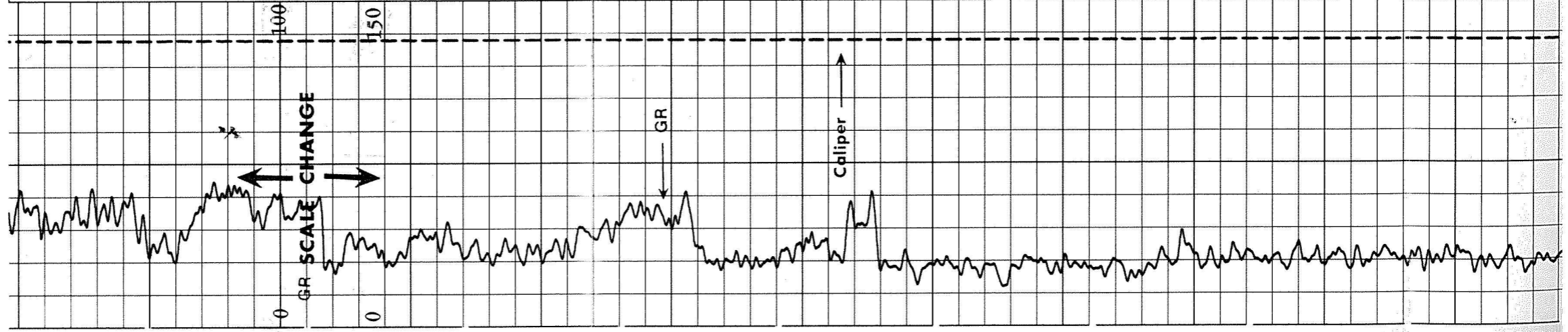
6.000
0.0

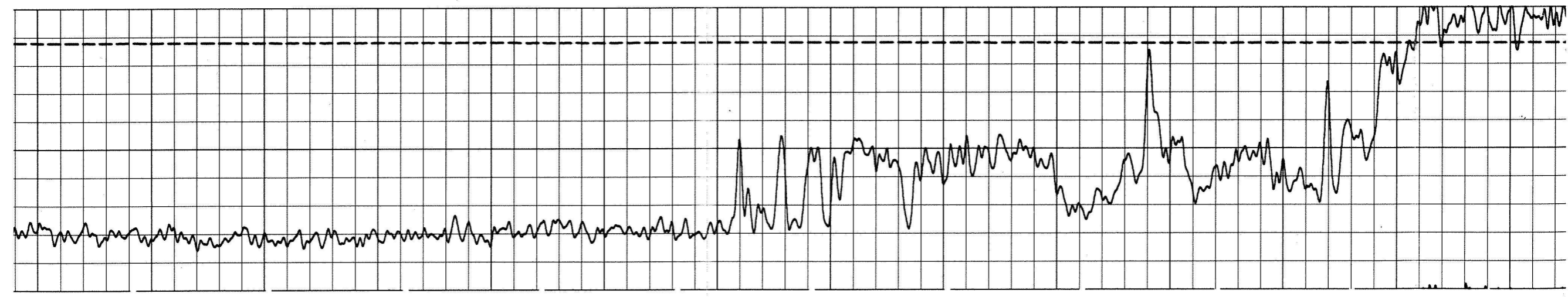
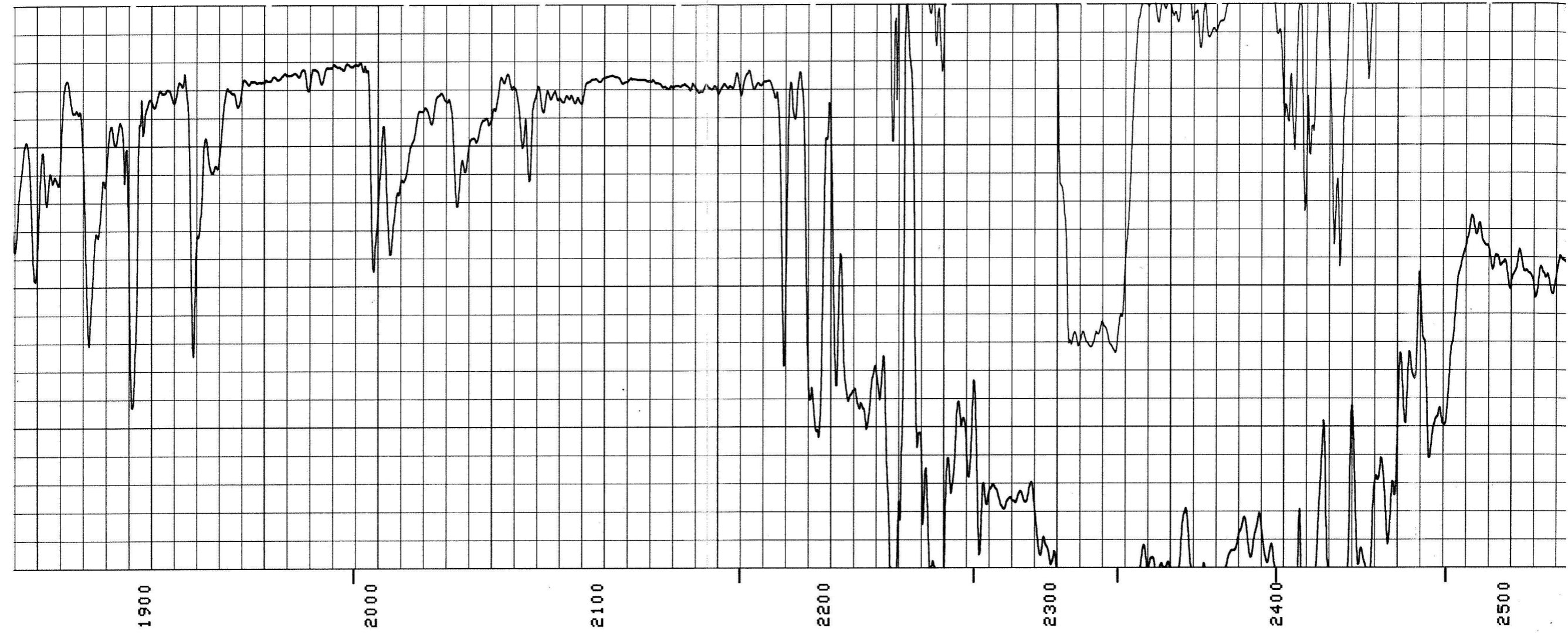
GR (GAPI)

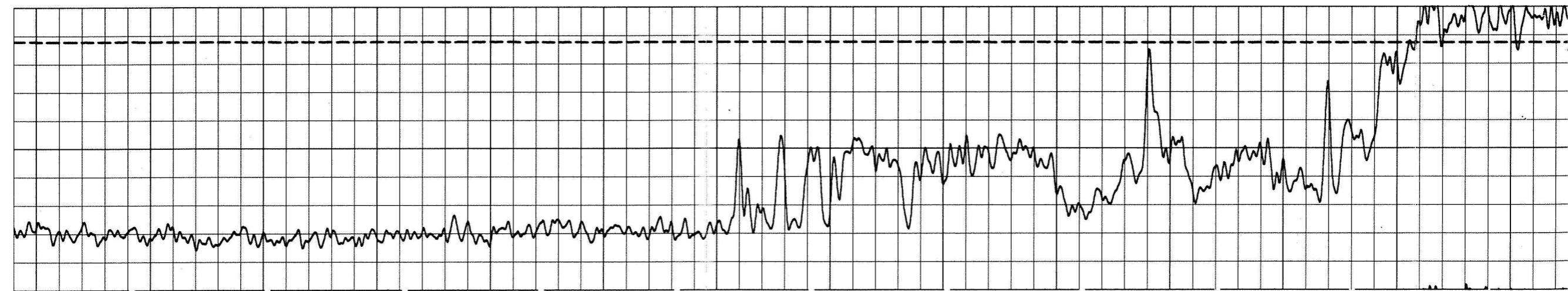
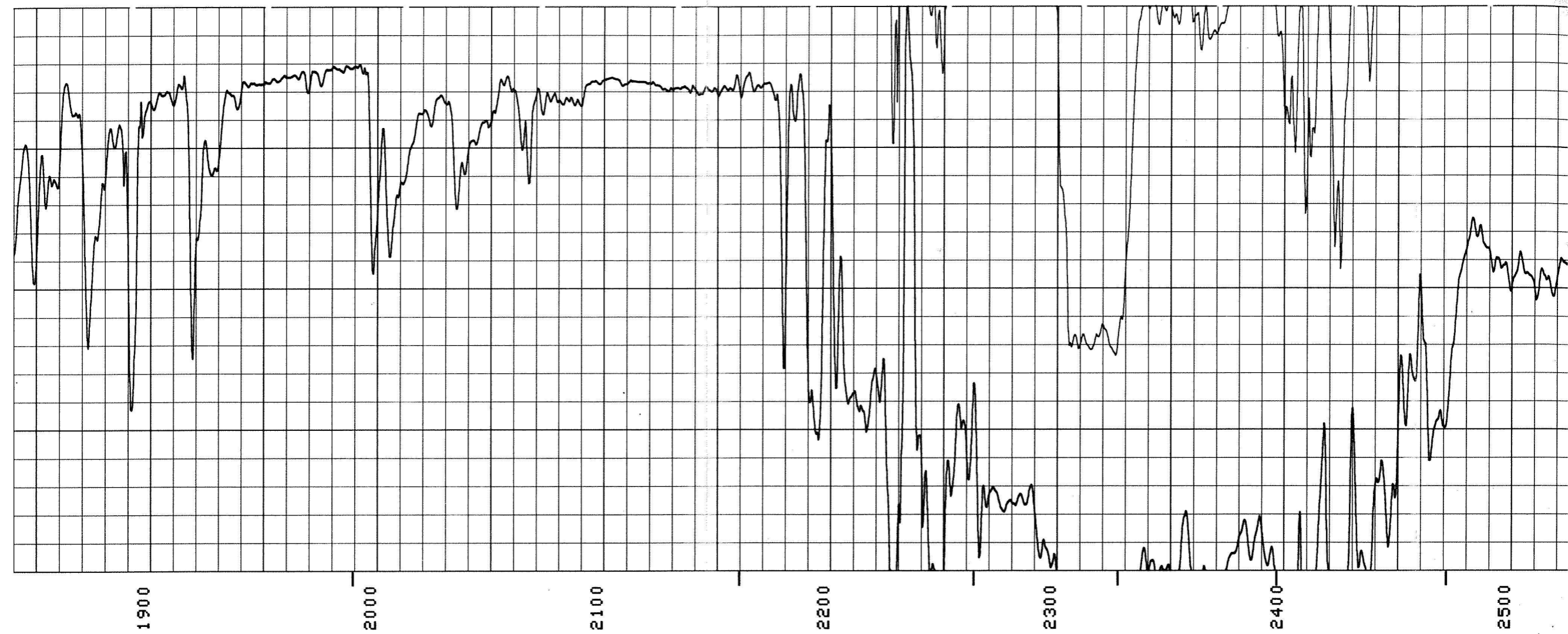
100
150
GR SCALE CHANGE

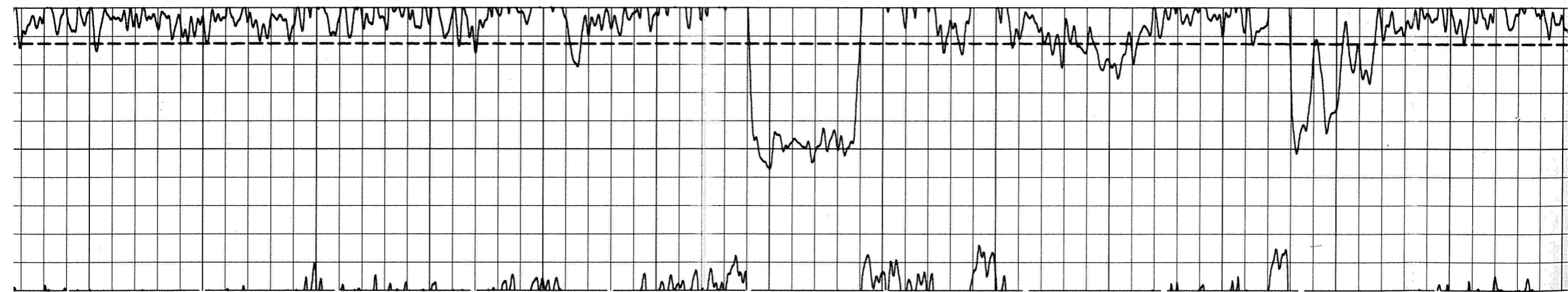
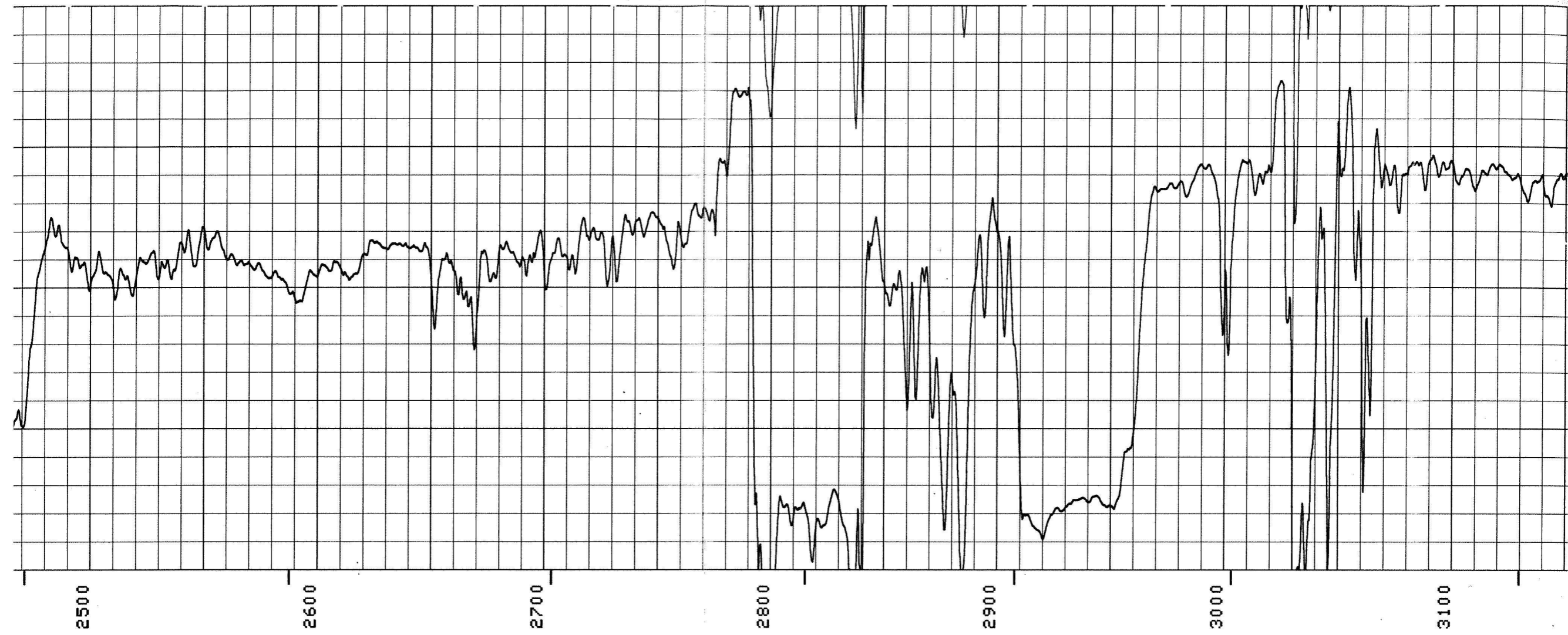
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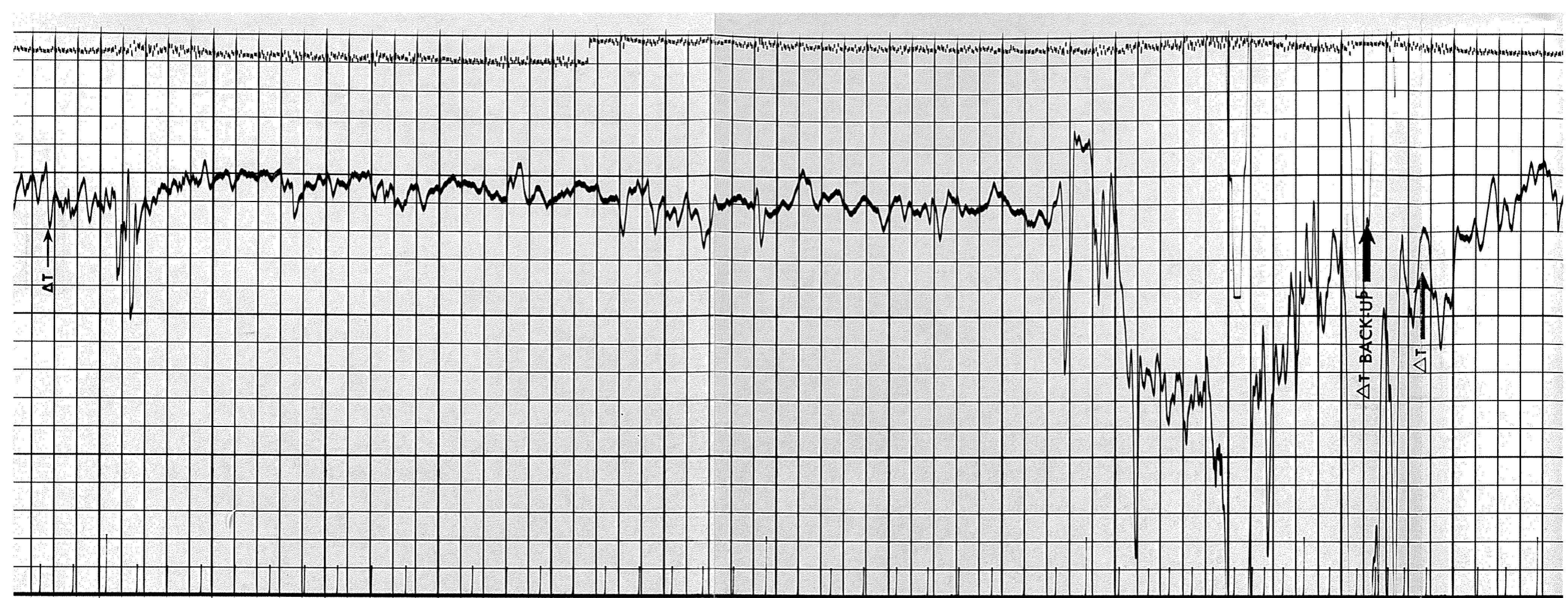
Caliper











3800

3900

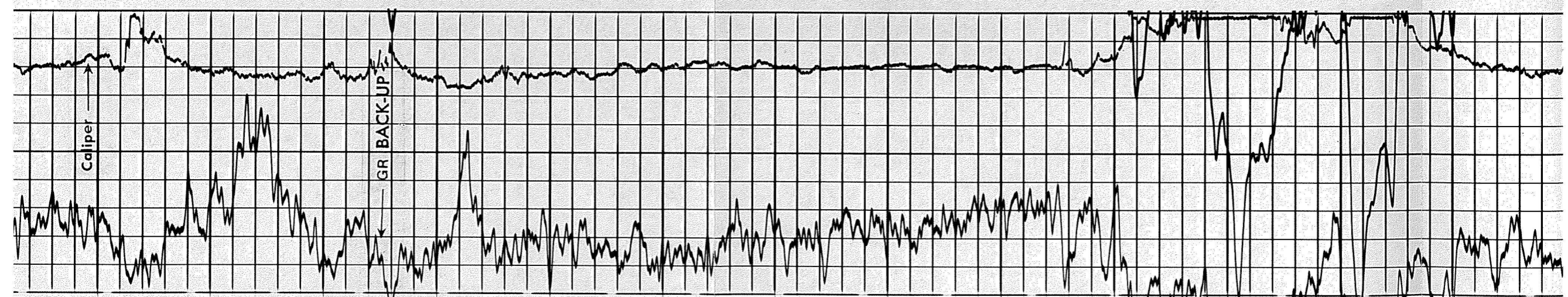
4000

4100

4200

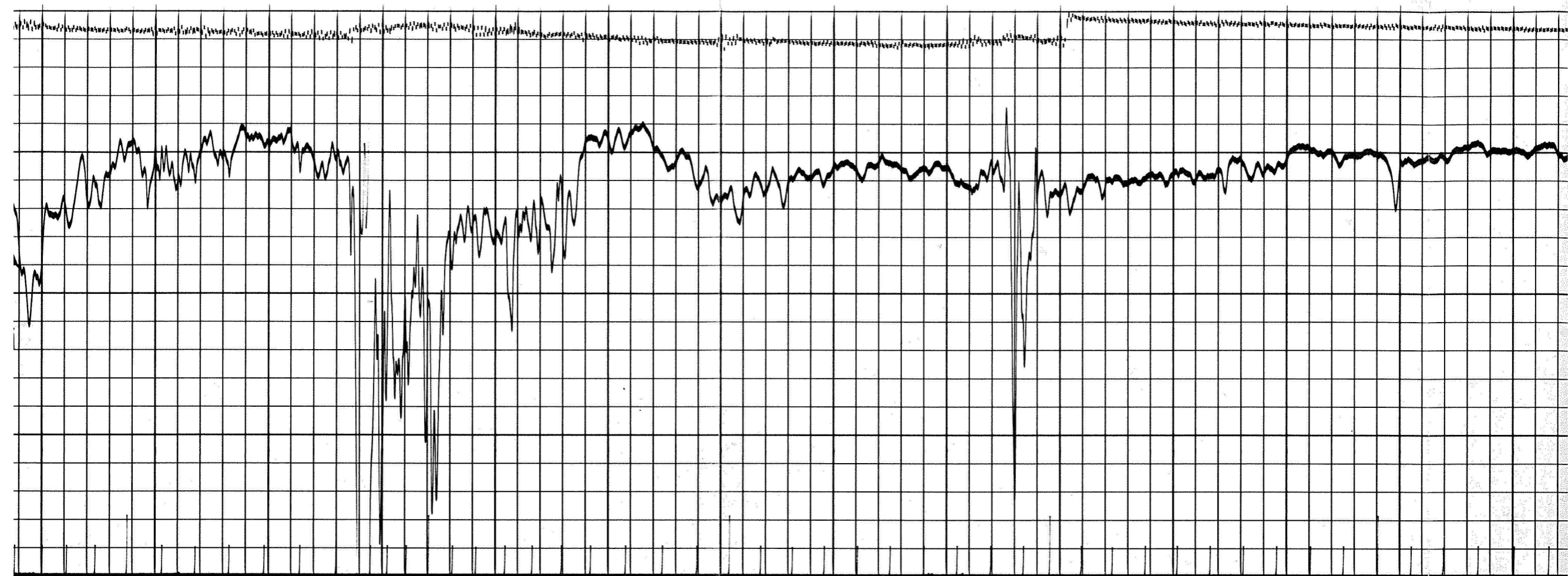
4300

4400



Caliper

GR BACK-UP



4400

4500

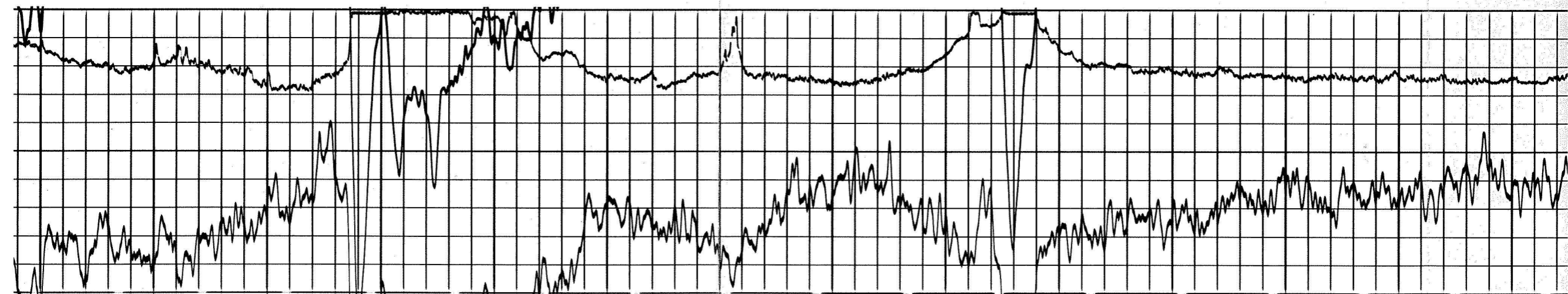
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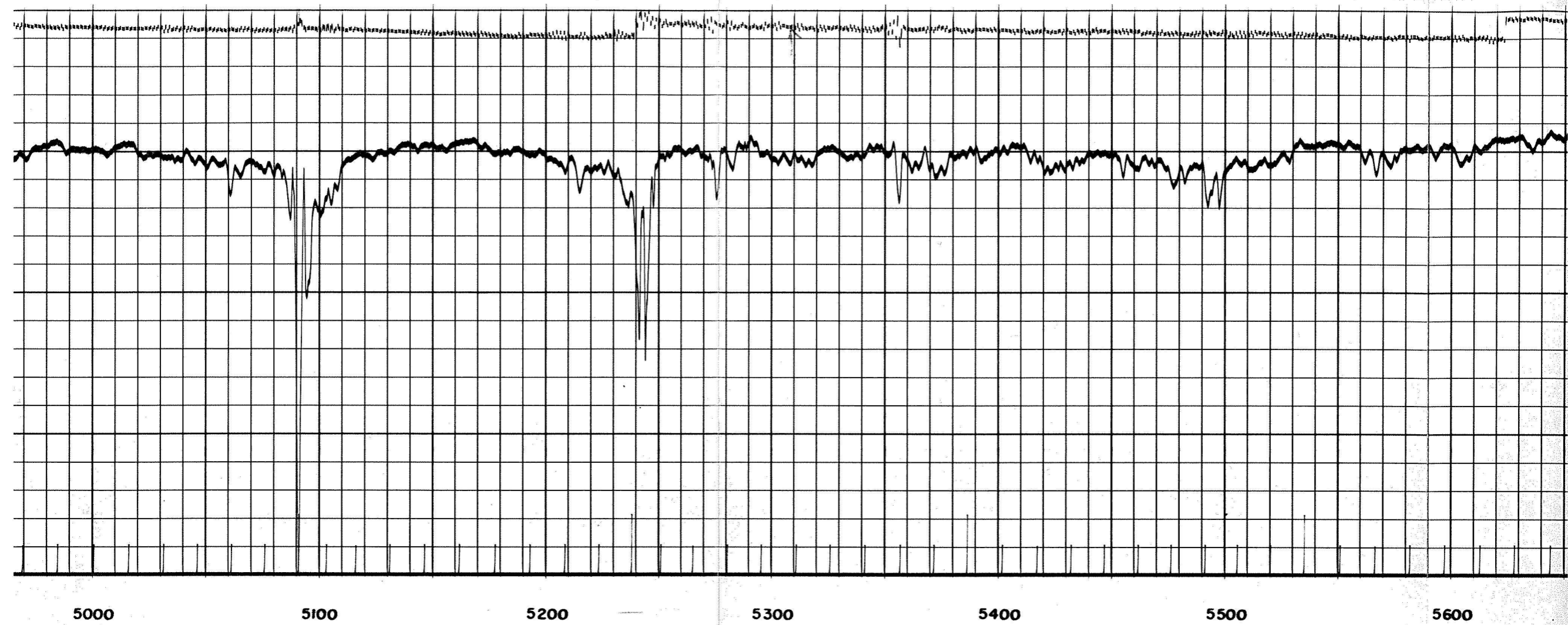
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4800

4900

5000





5000

5100

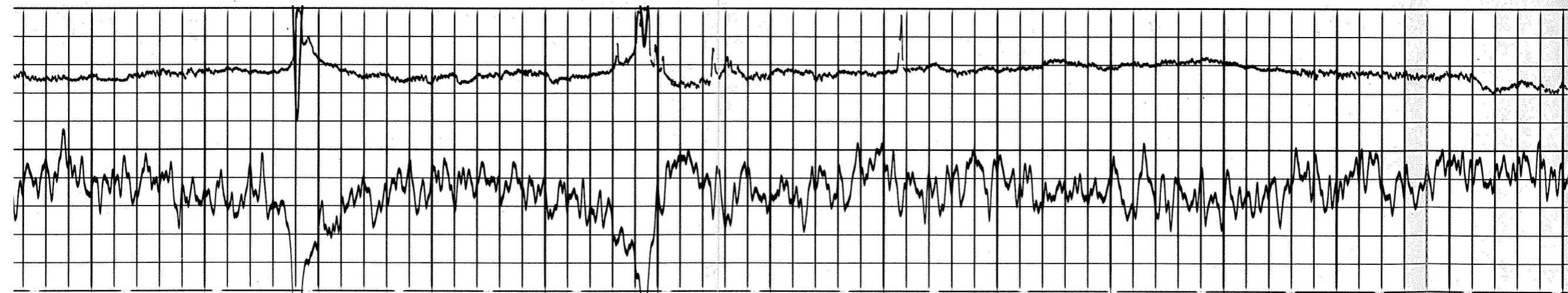
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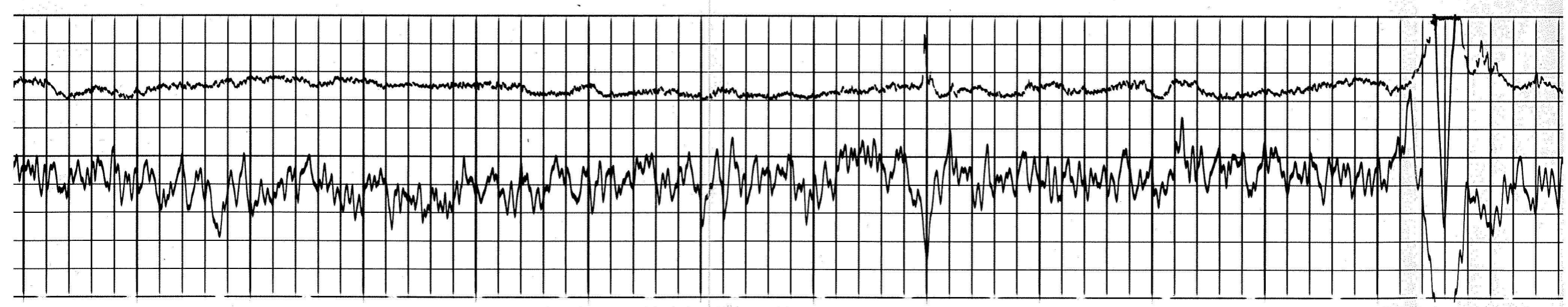
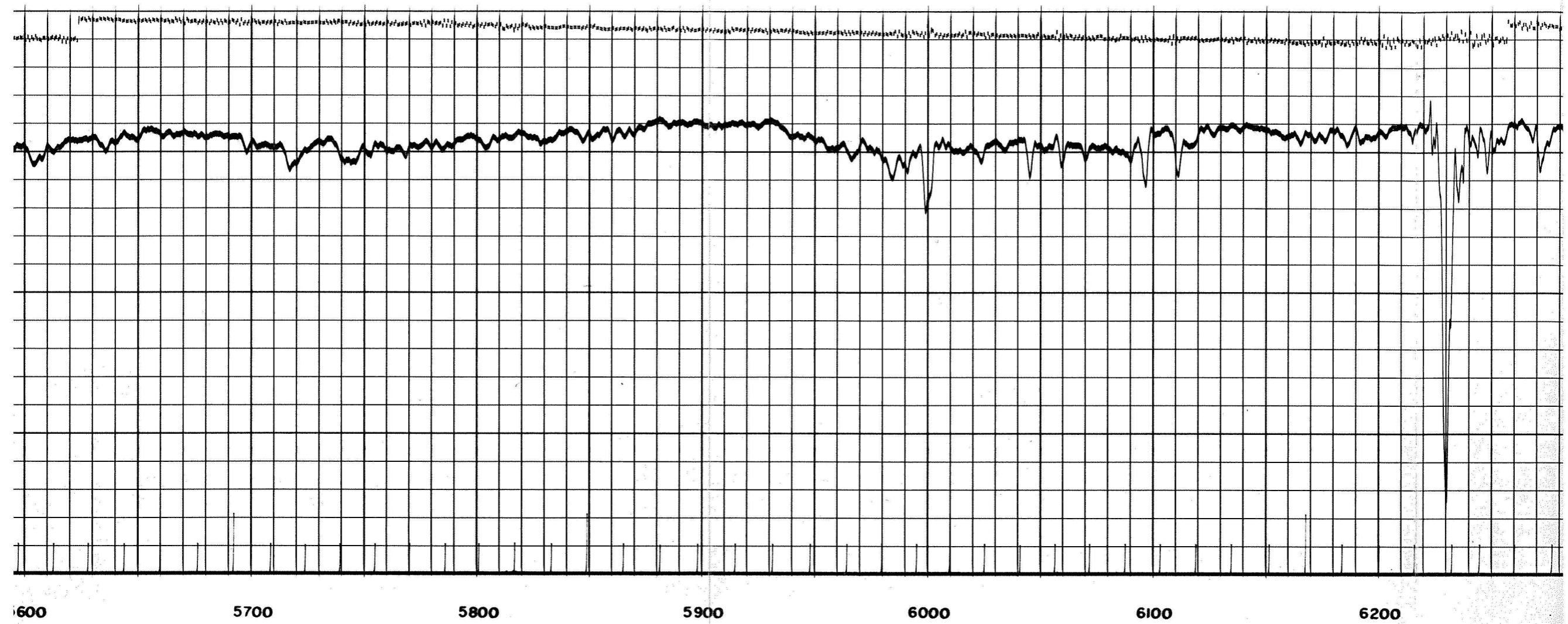
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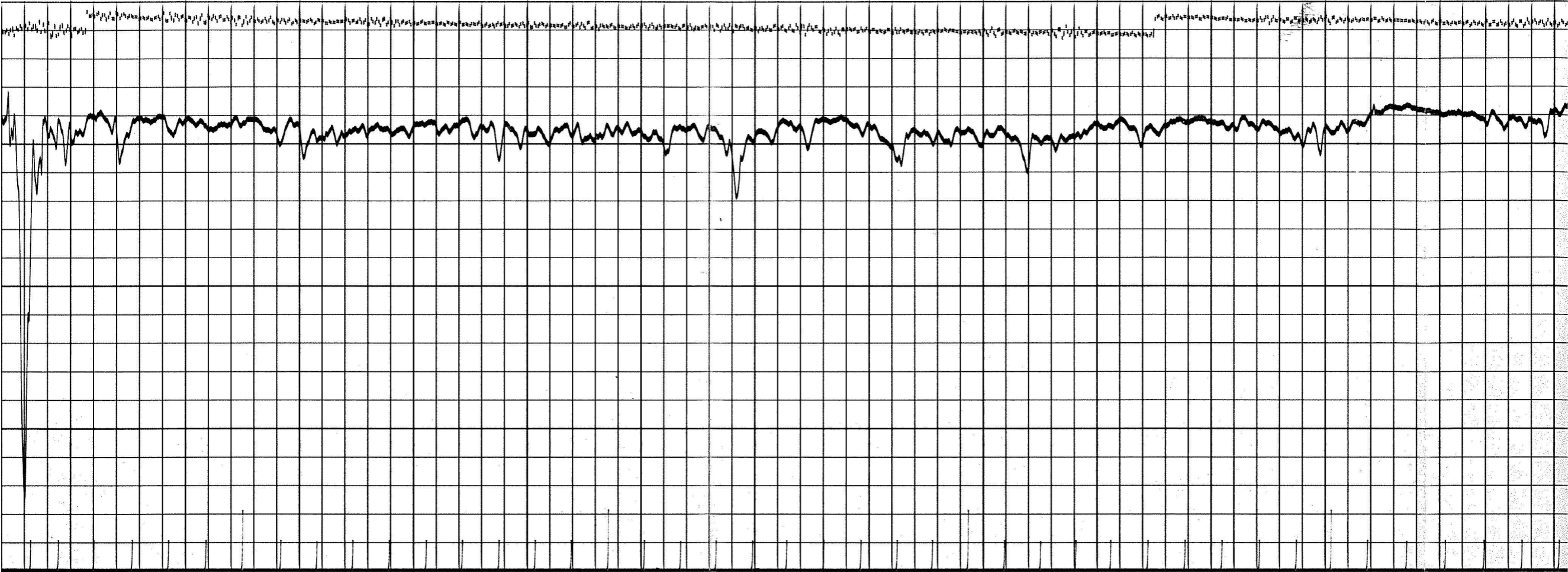
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5600





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6300

6400

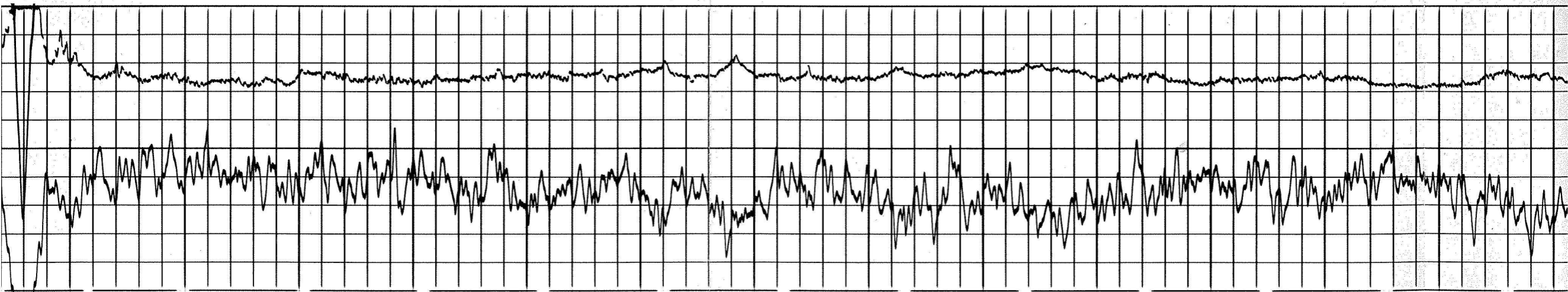
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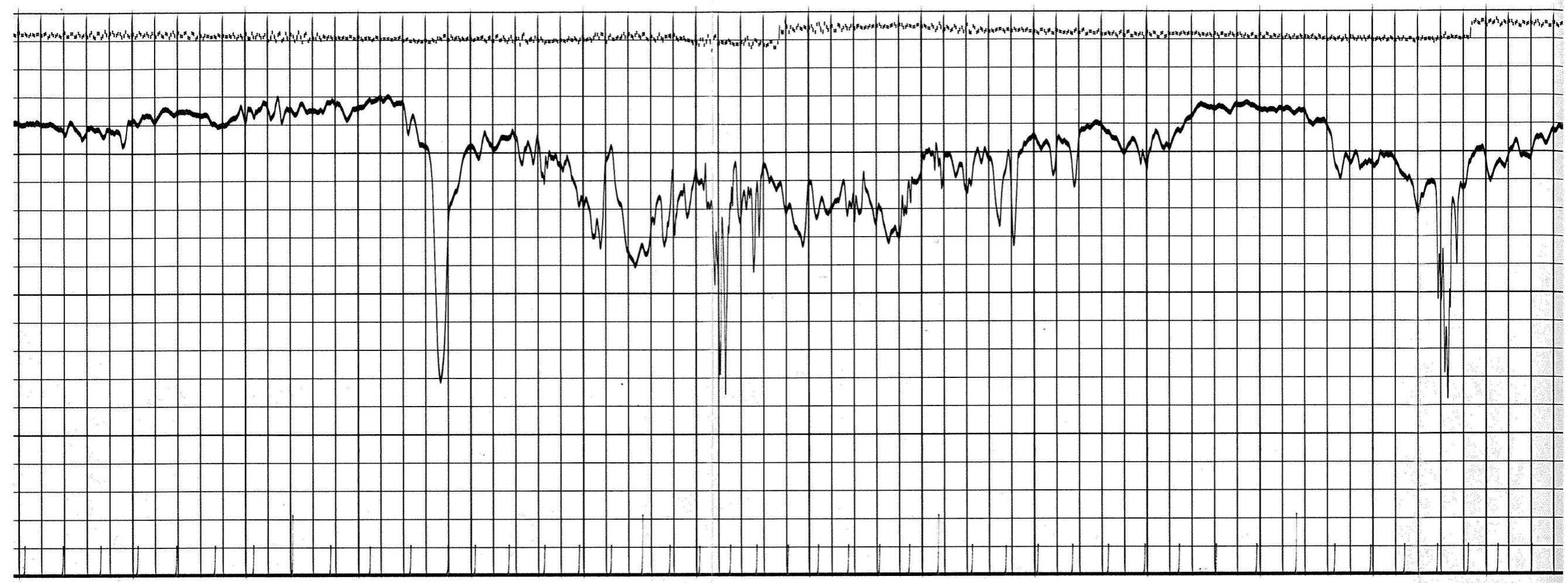
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6700

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6900





6900

7000

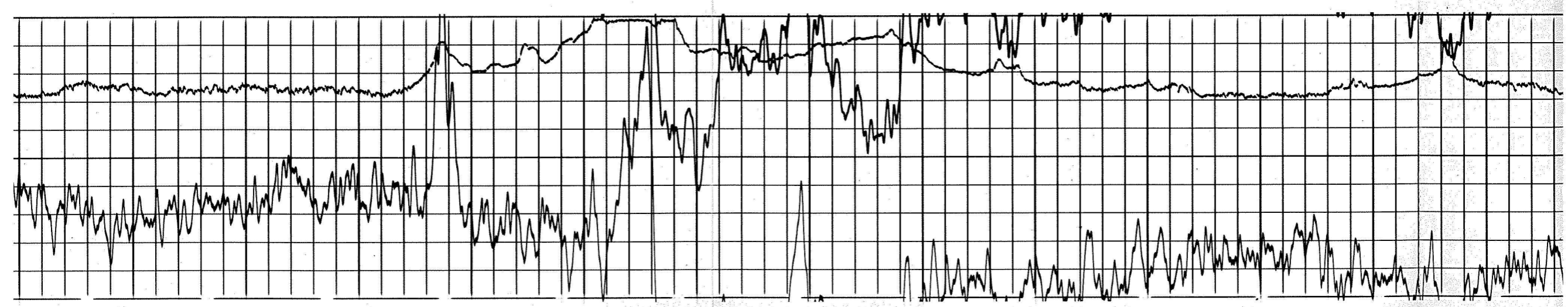
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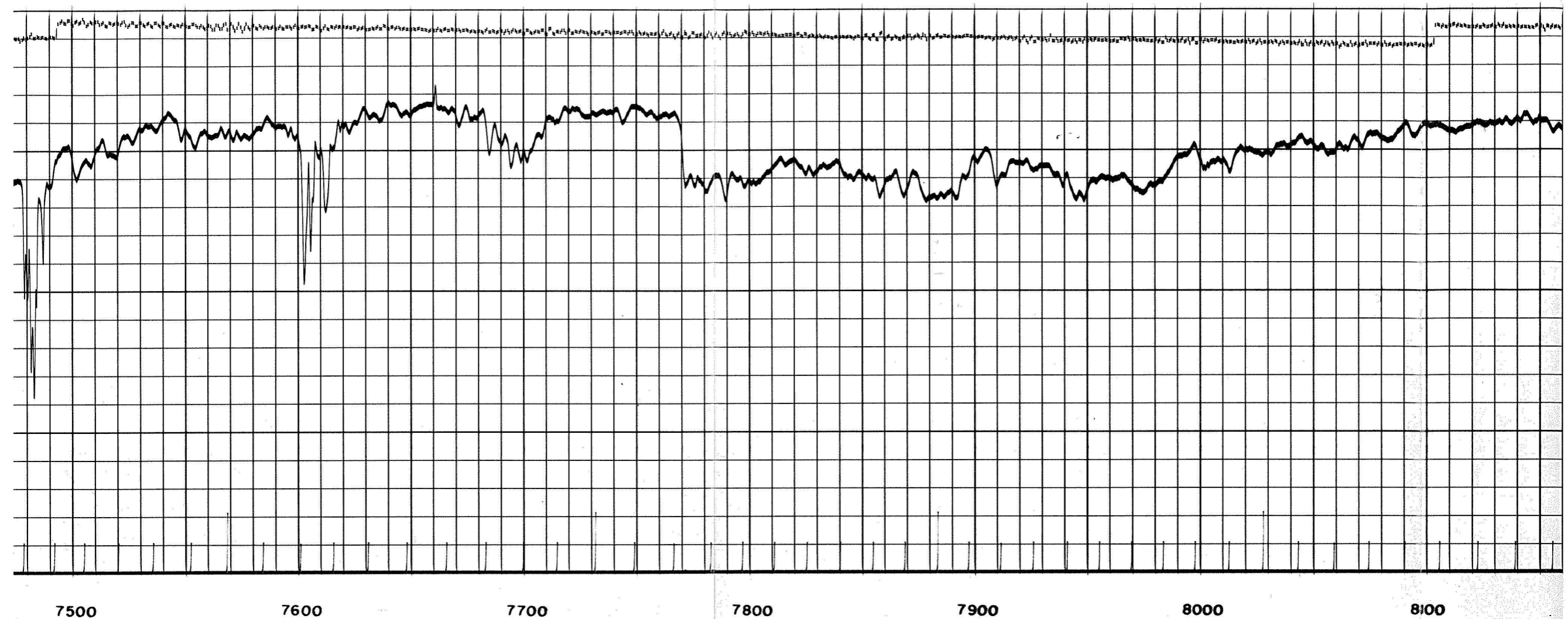
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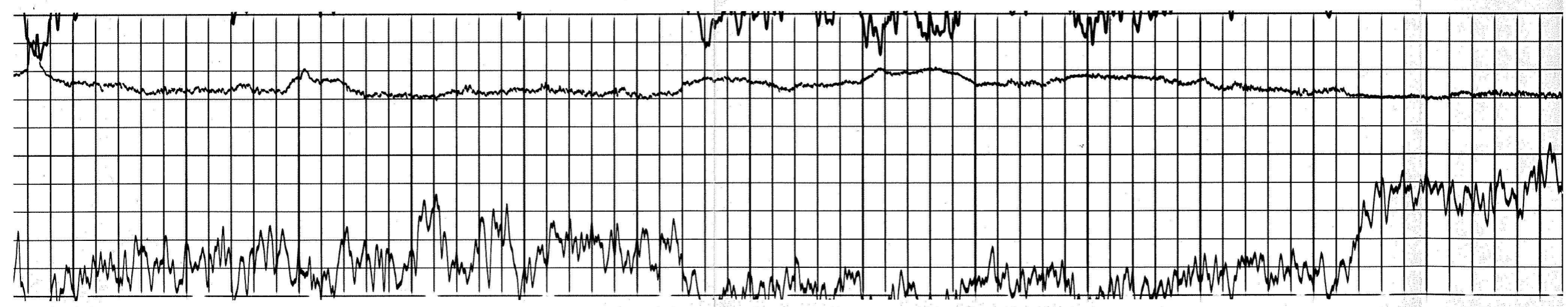
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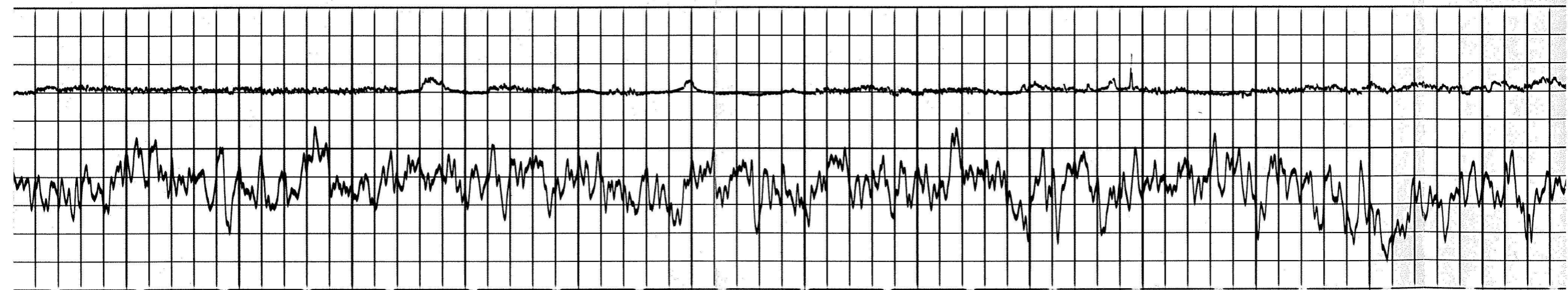
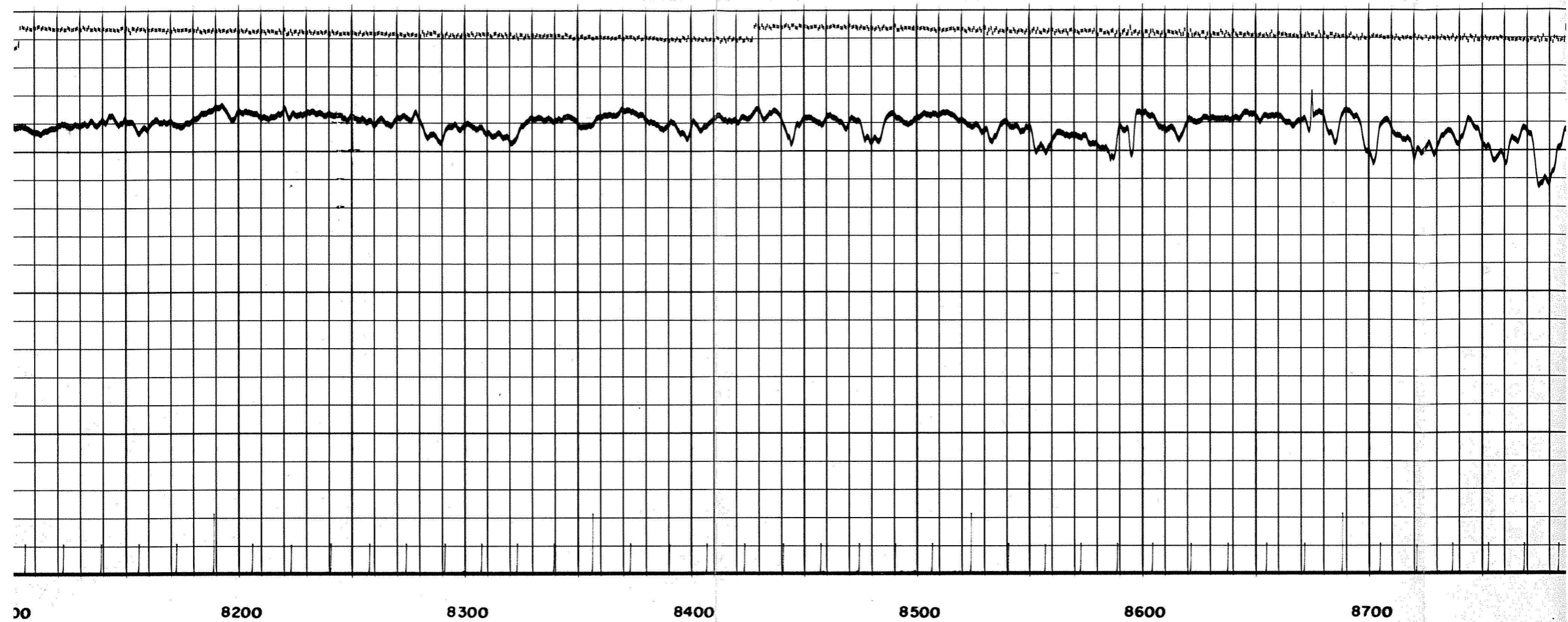
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7500 7600 7700 7800 7900 8000 8100





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8200

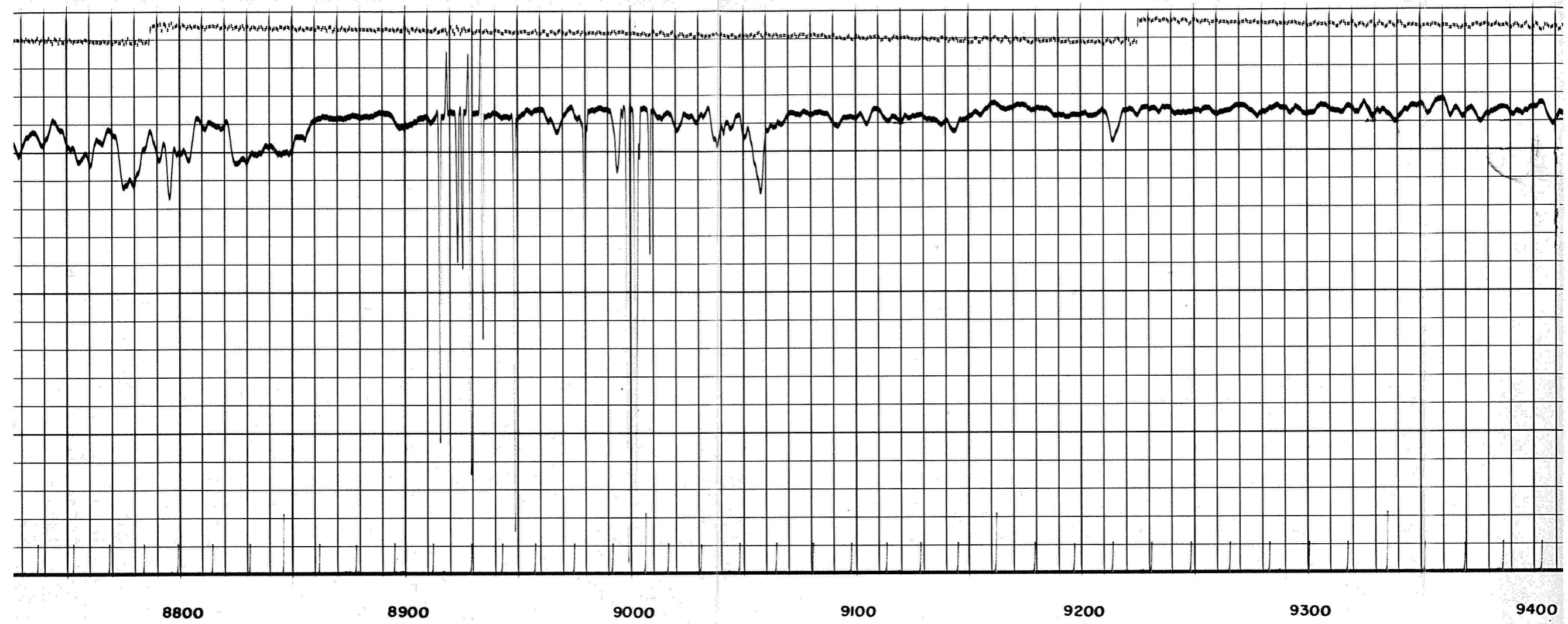
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8400

8500

8600

8700



8800

8900

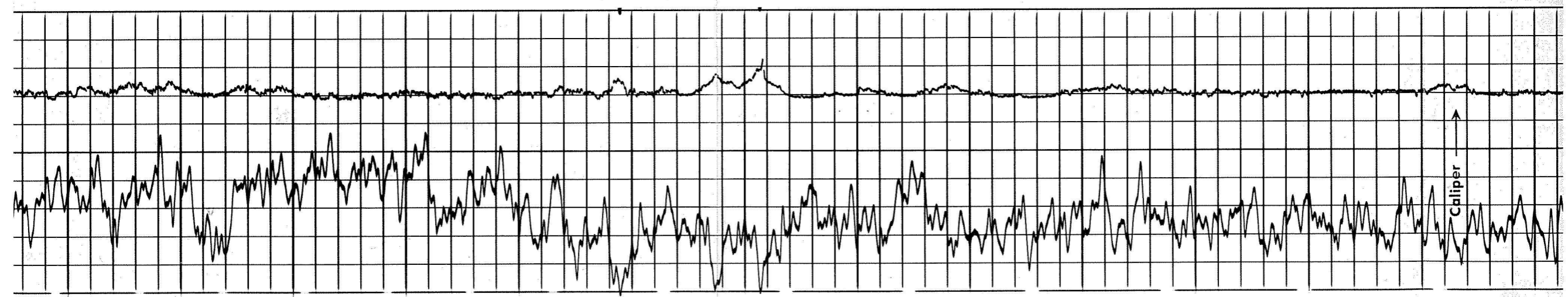
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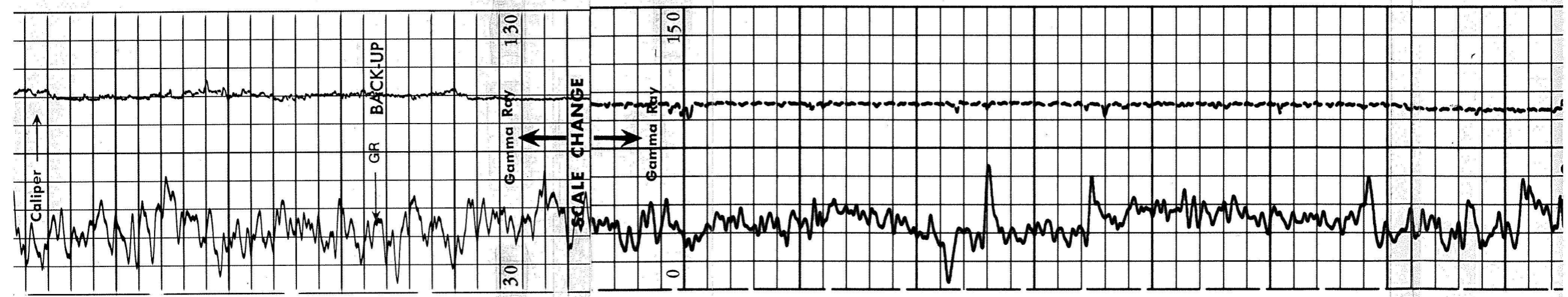
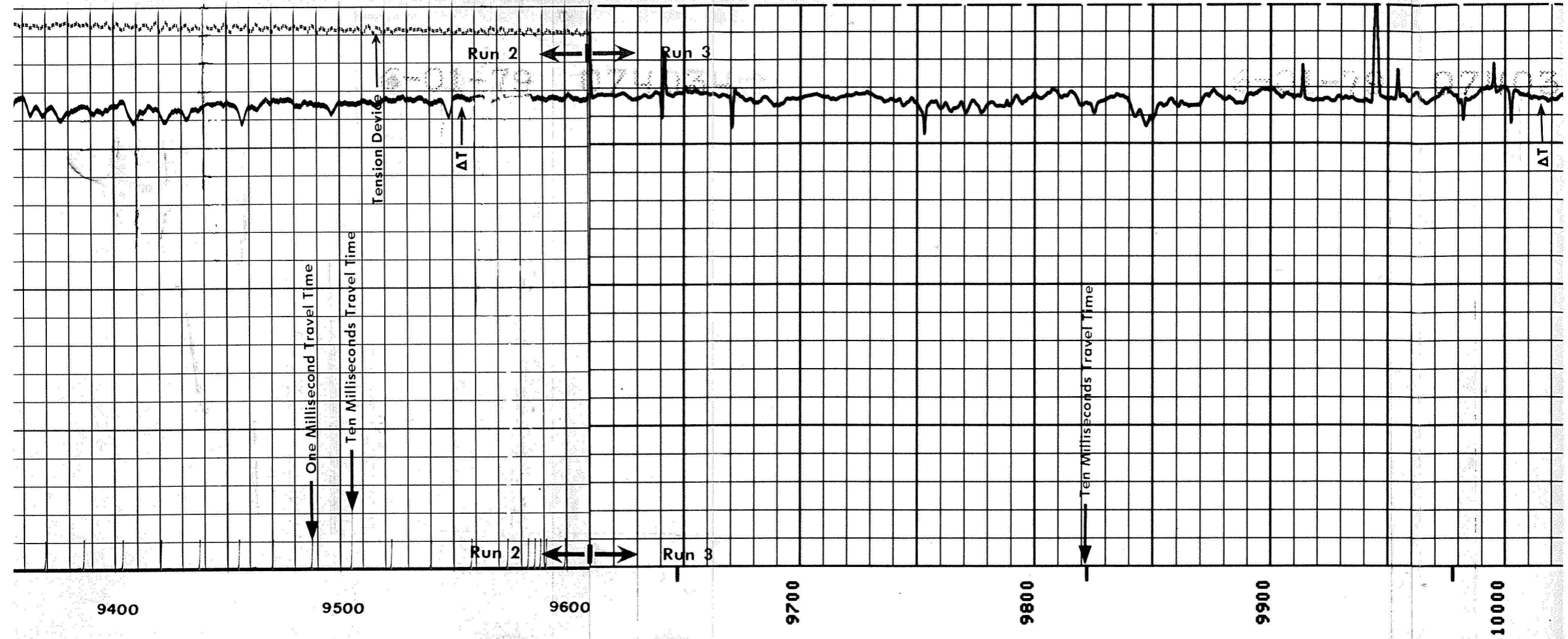
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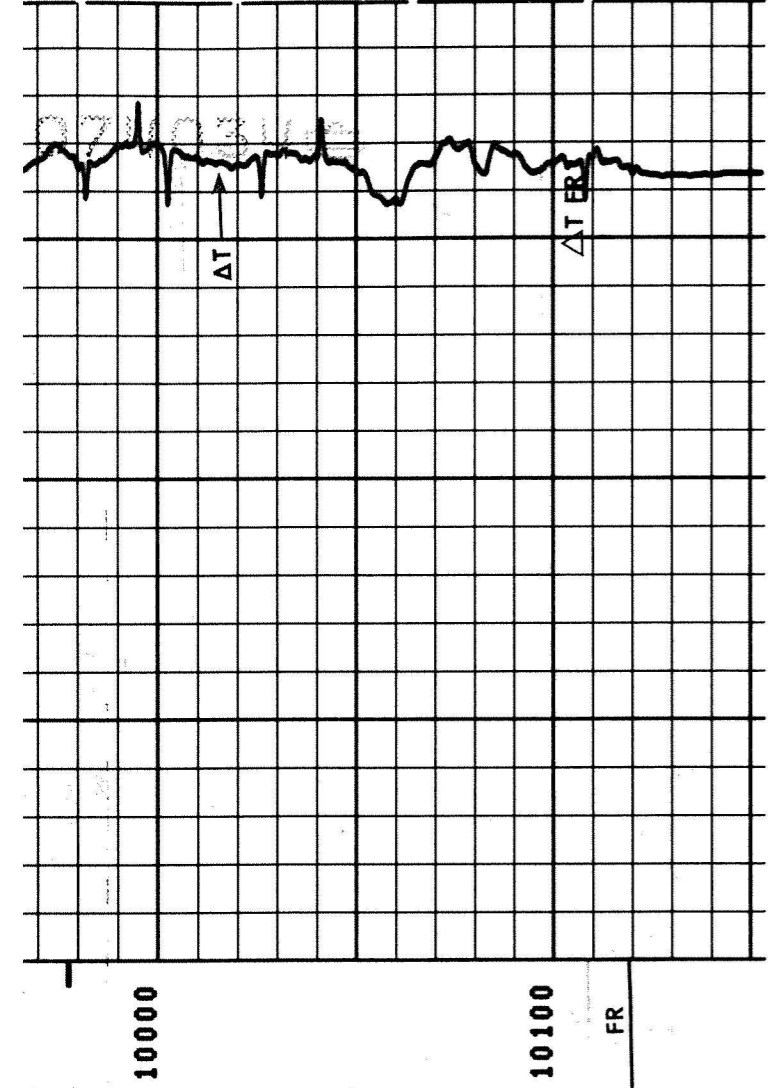
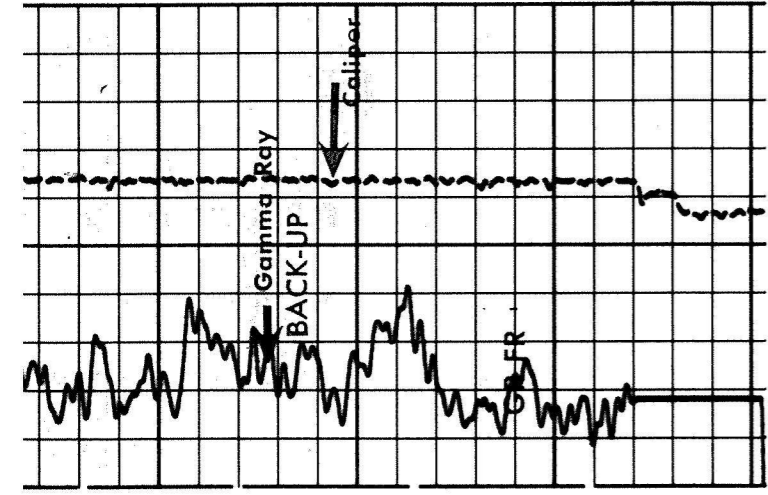
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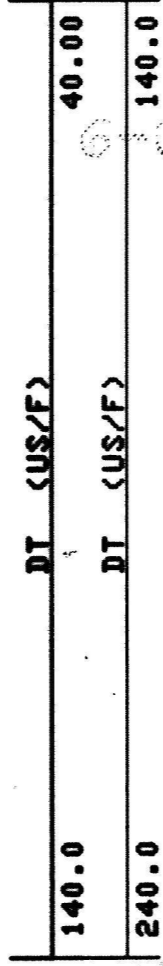
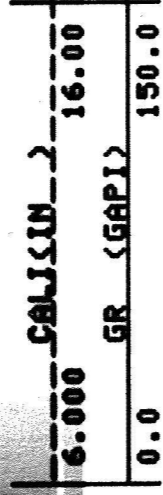


Caliper

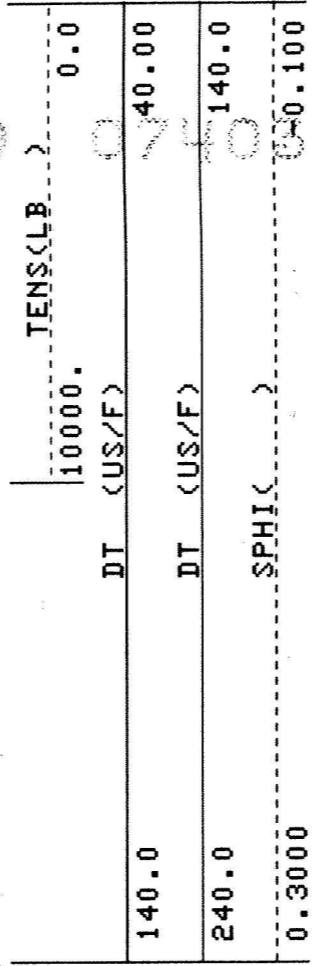
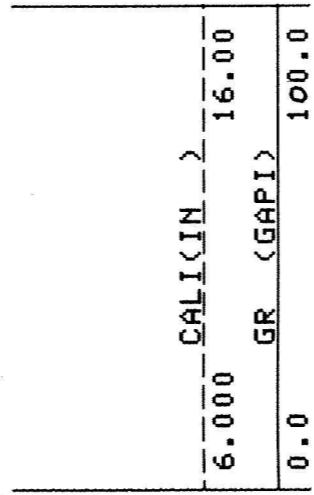




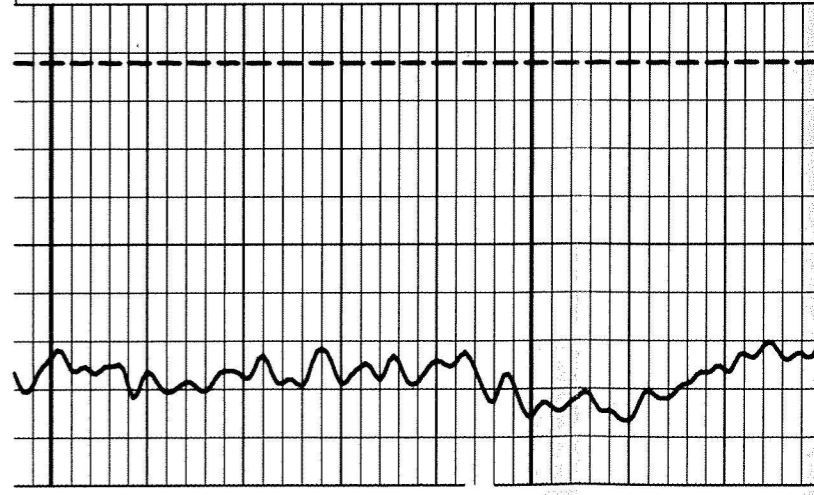
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2 2 4



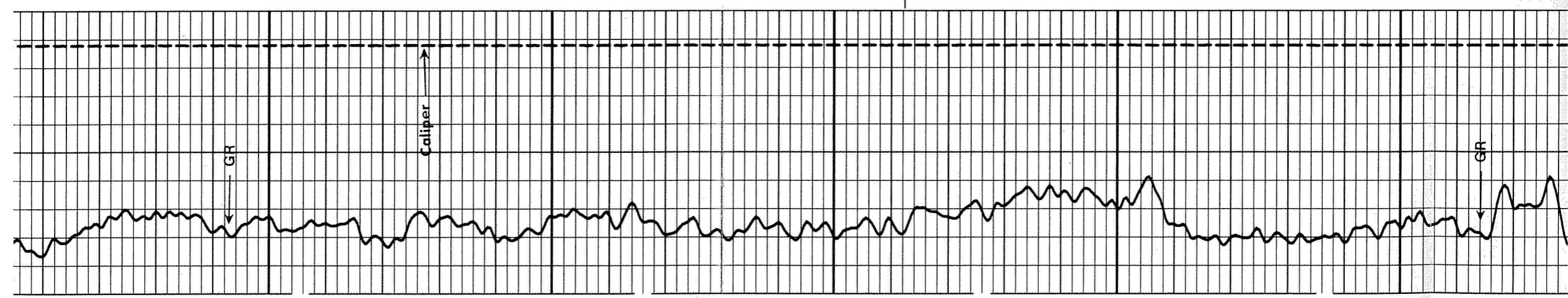
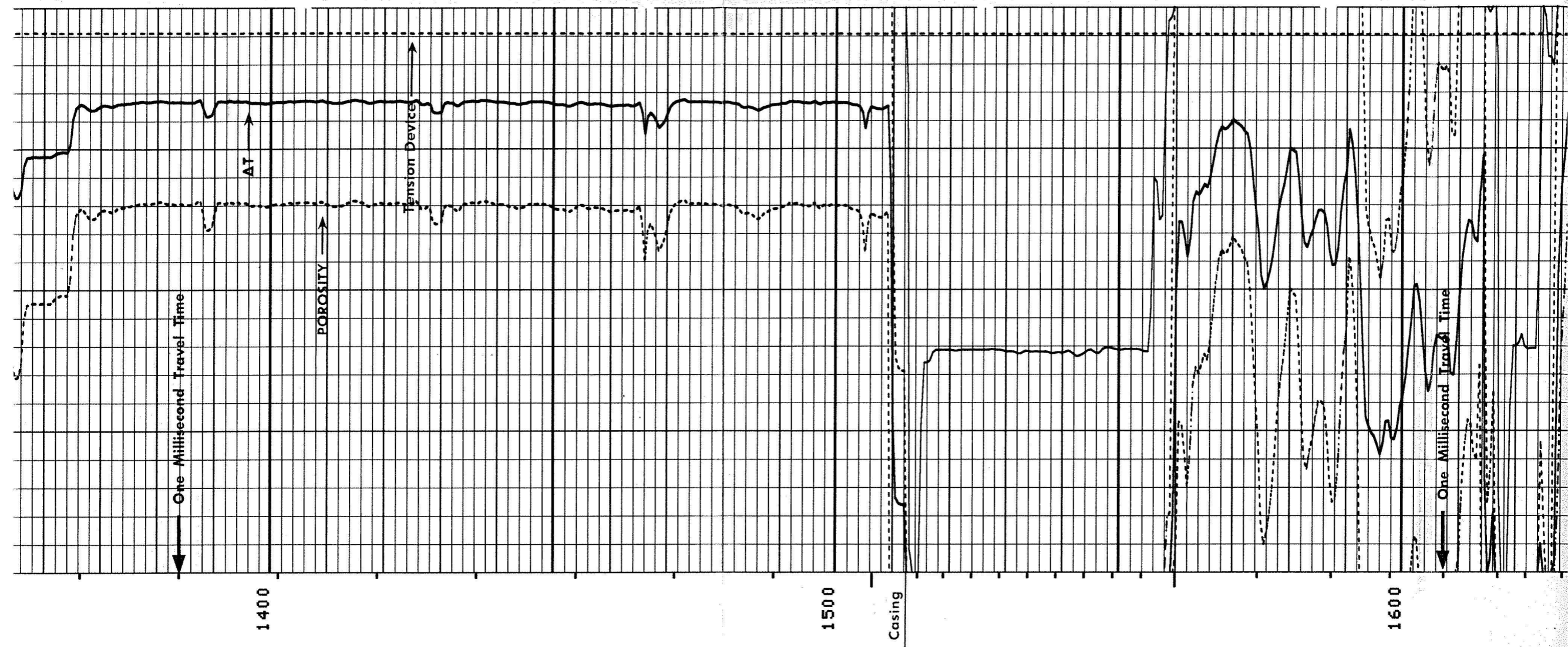
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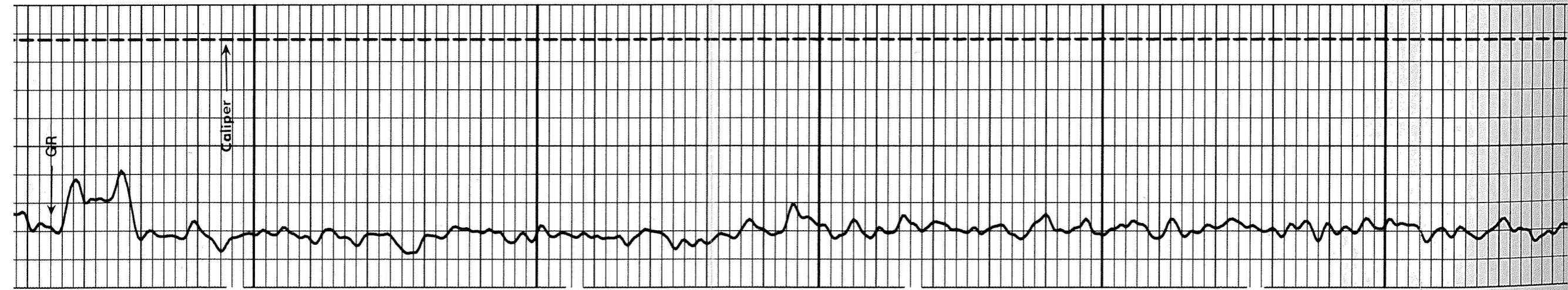
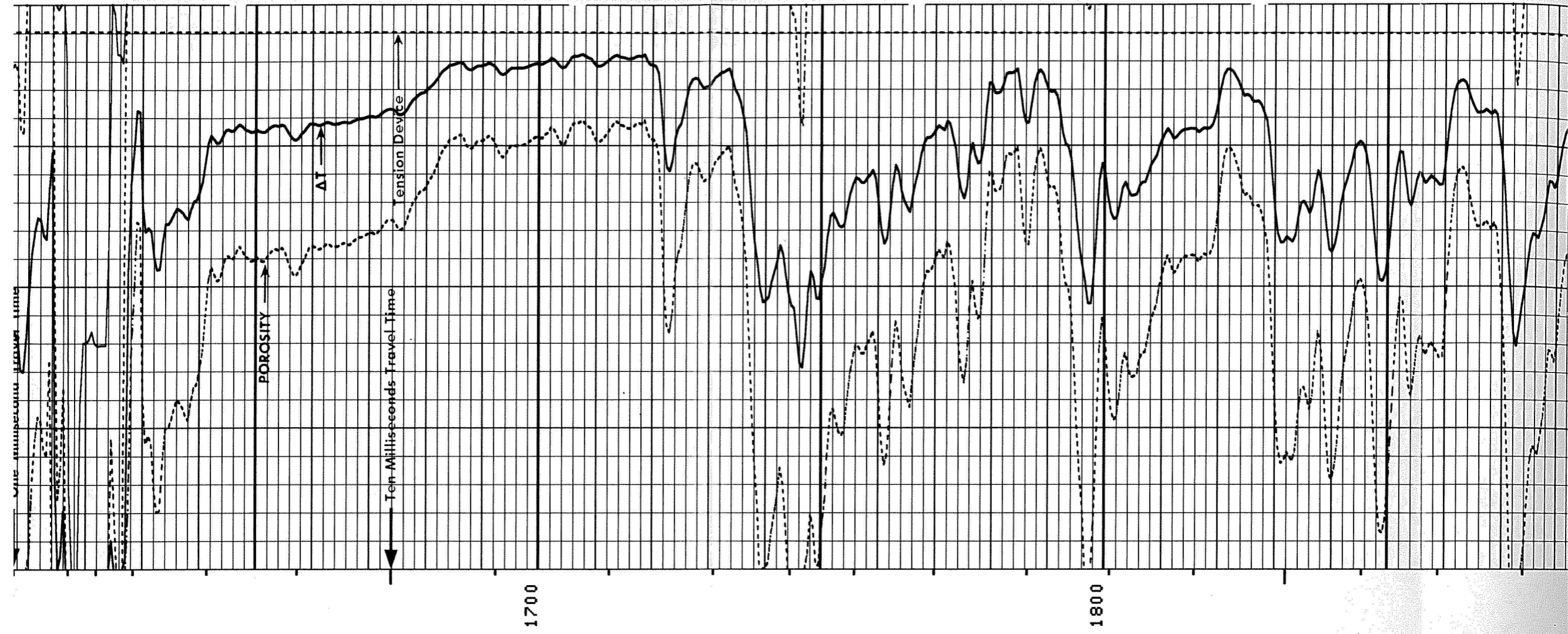


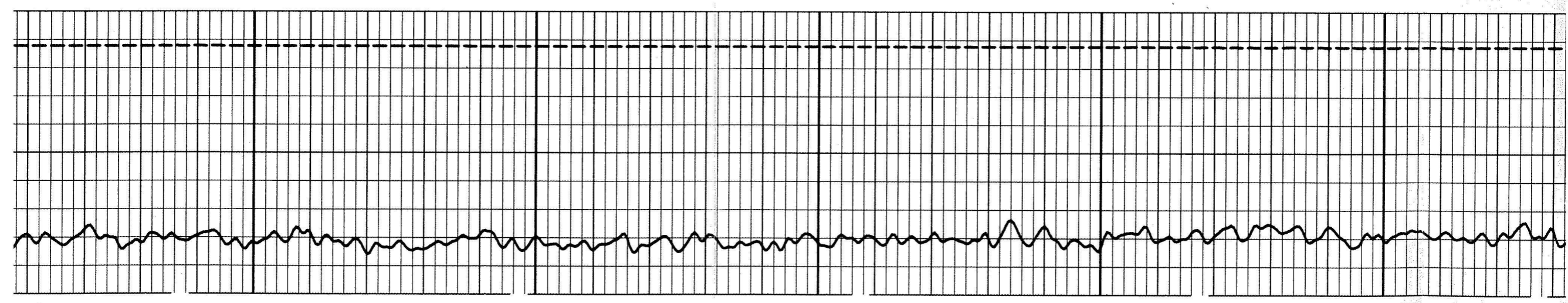
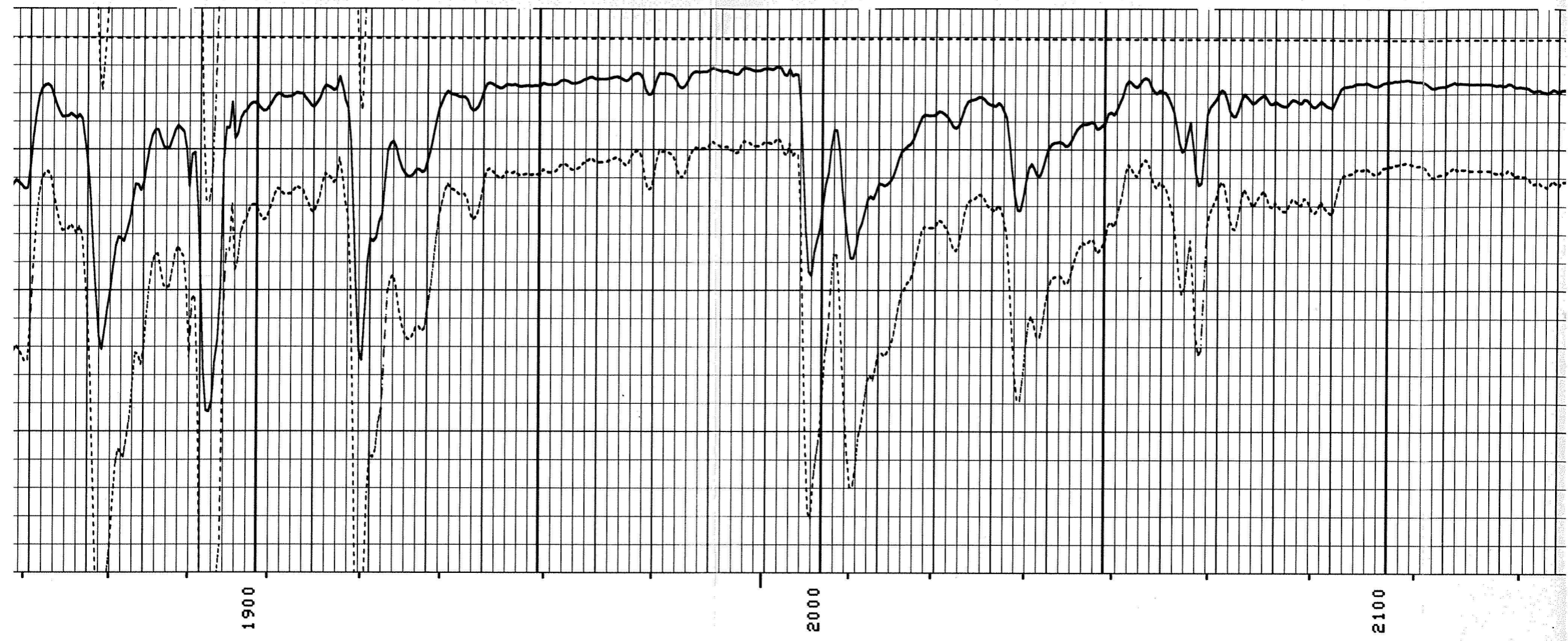
Run 1

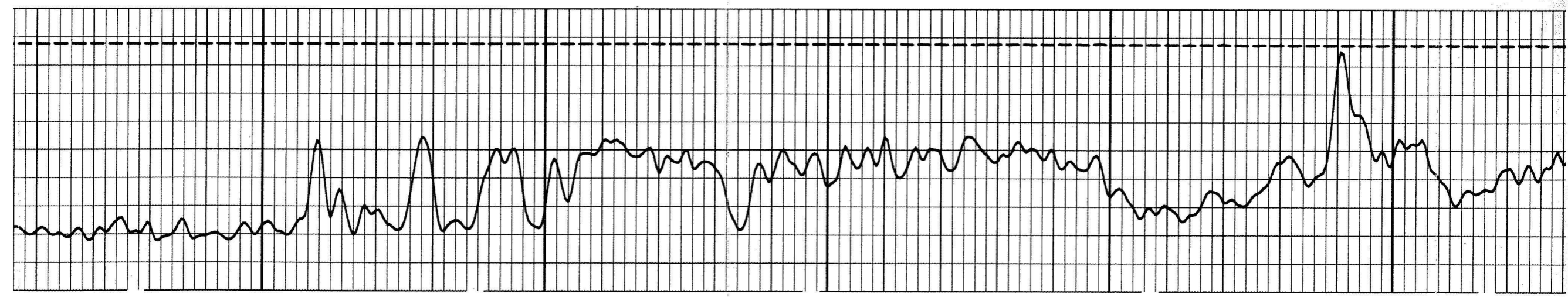
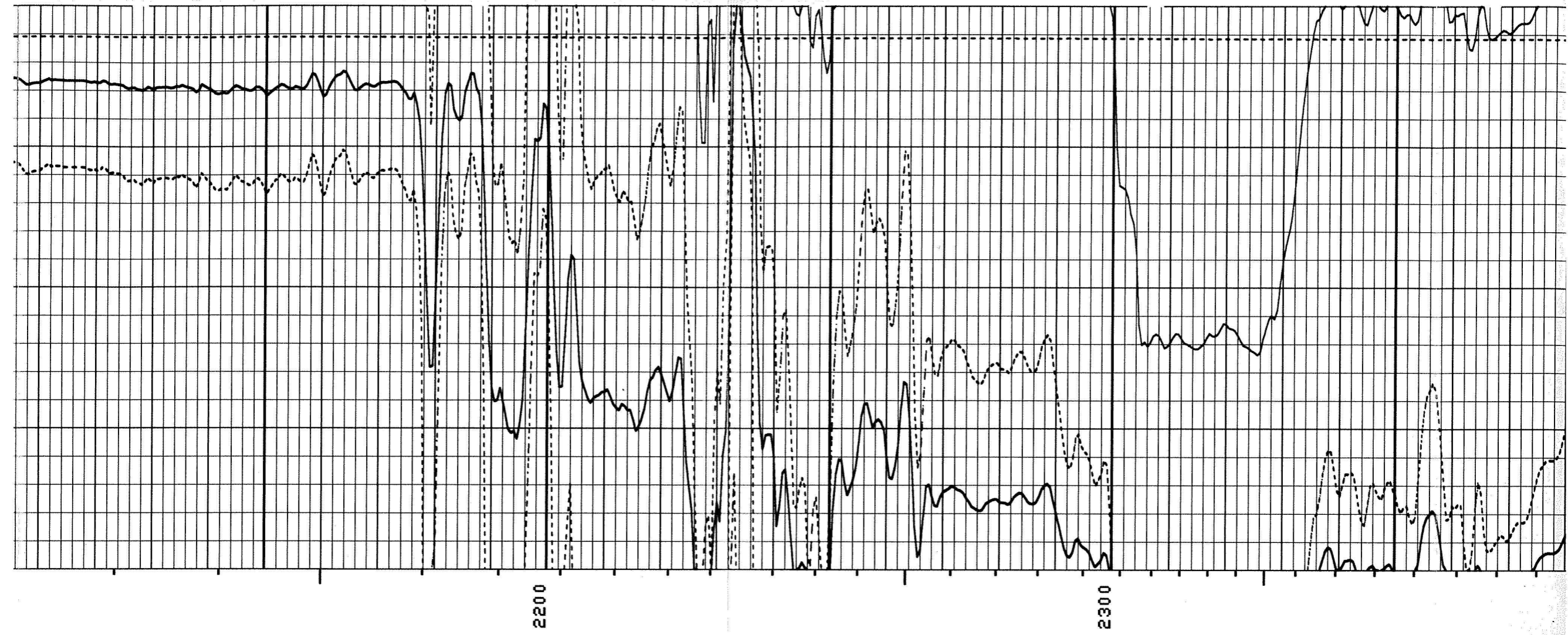
AT IN Casing = 57 MS

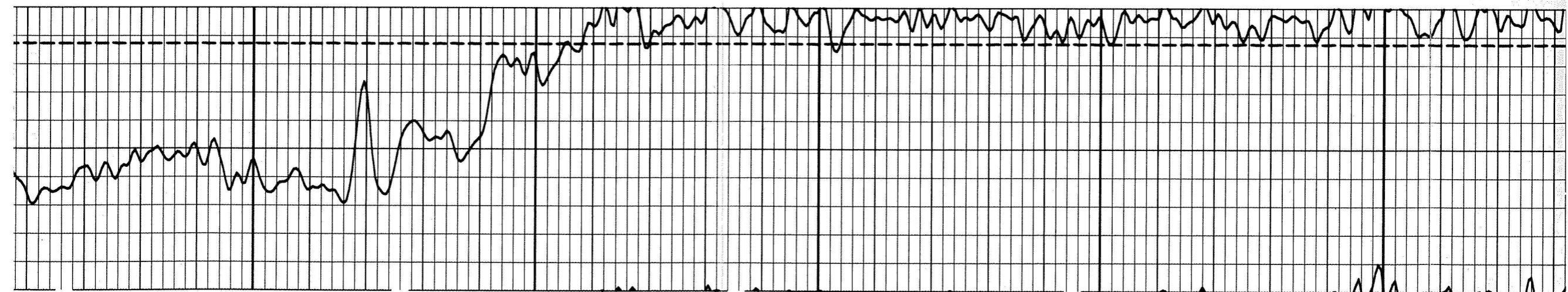
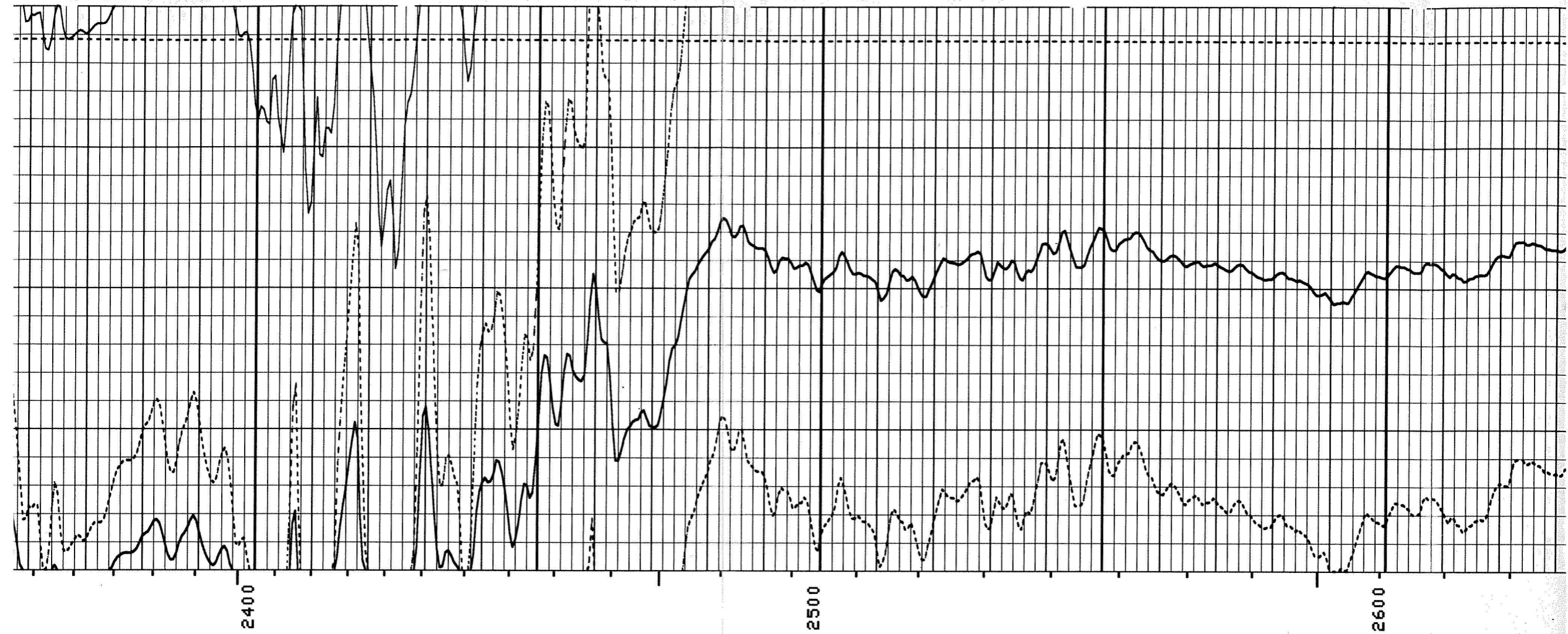


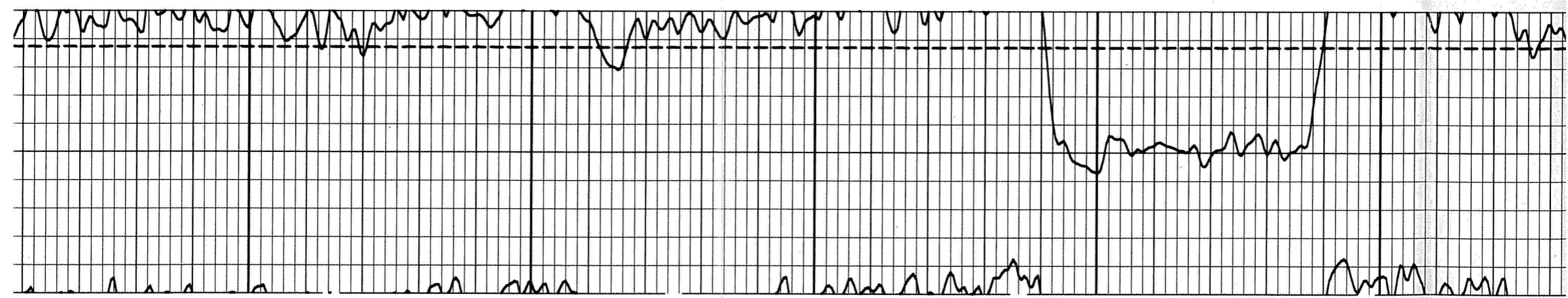
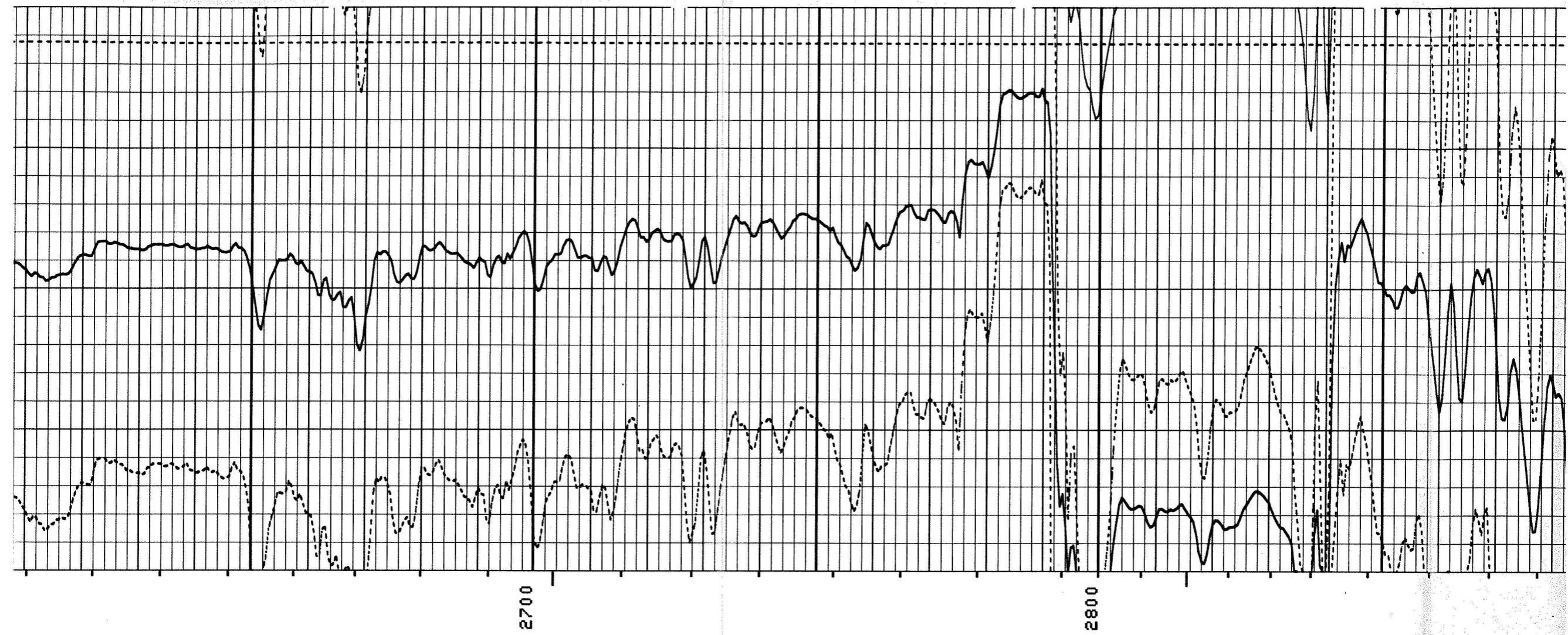


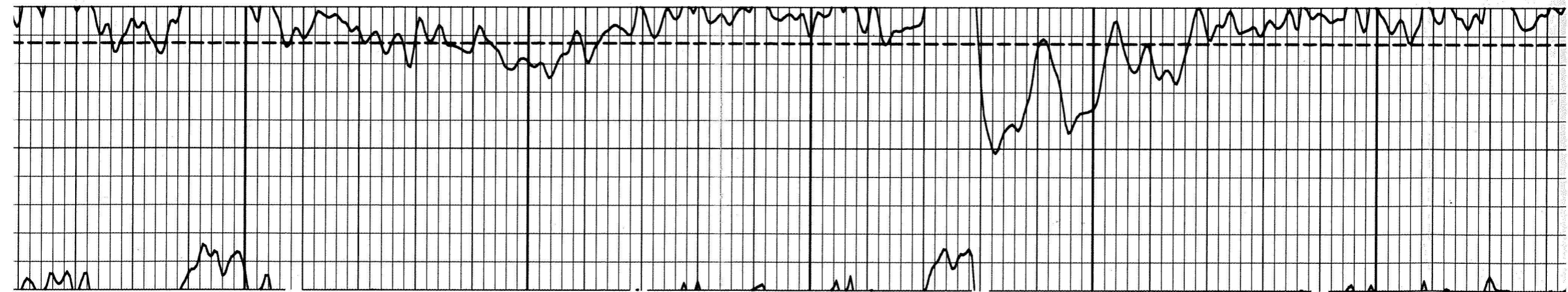
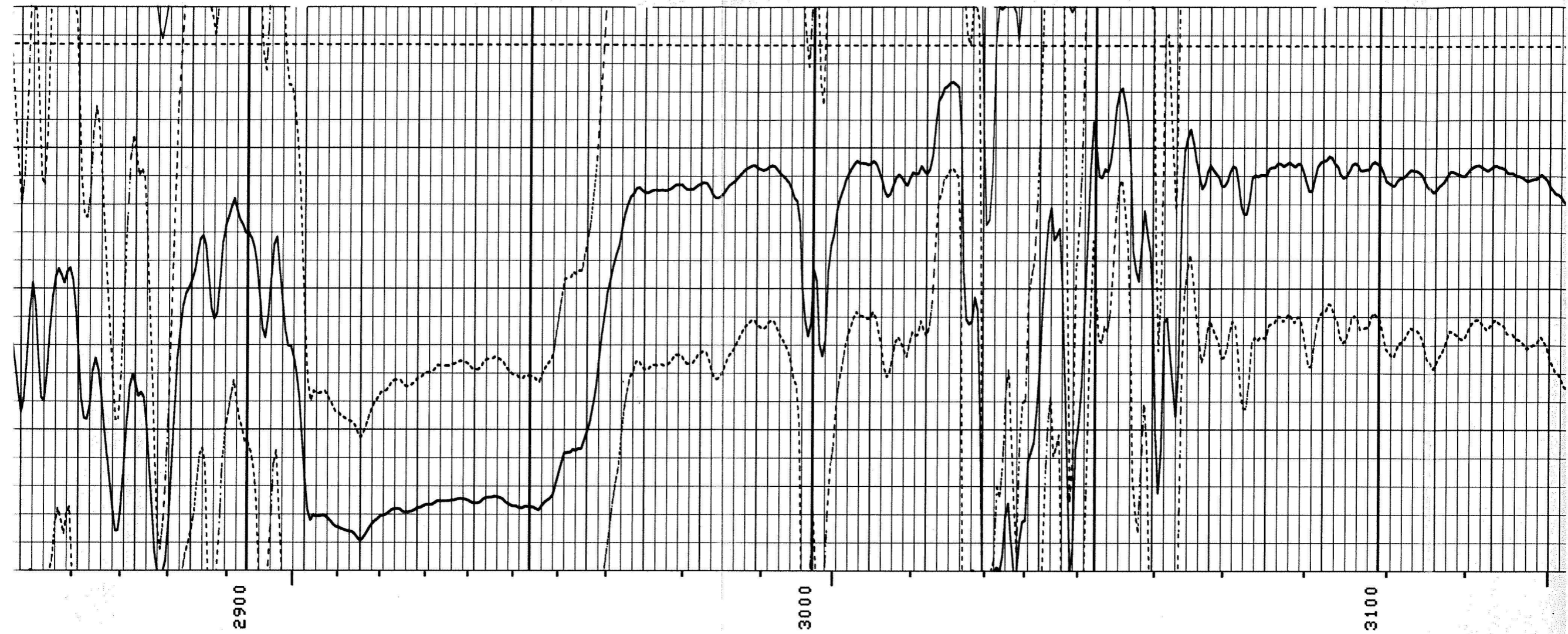


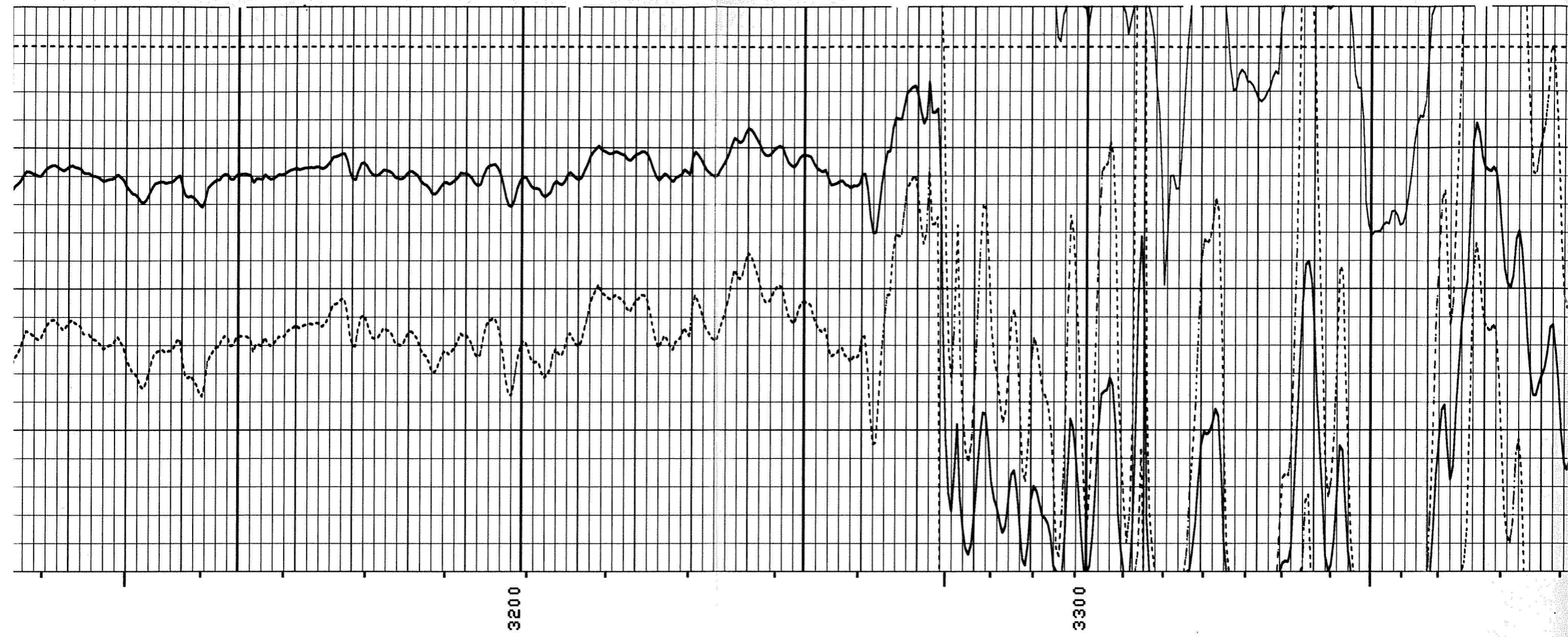






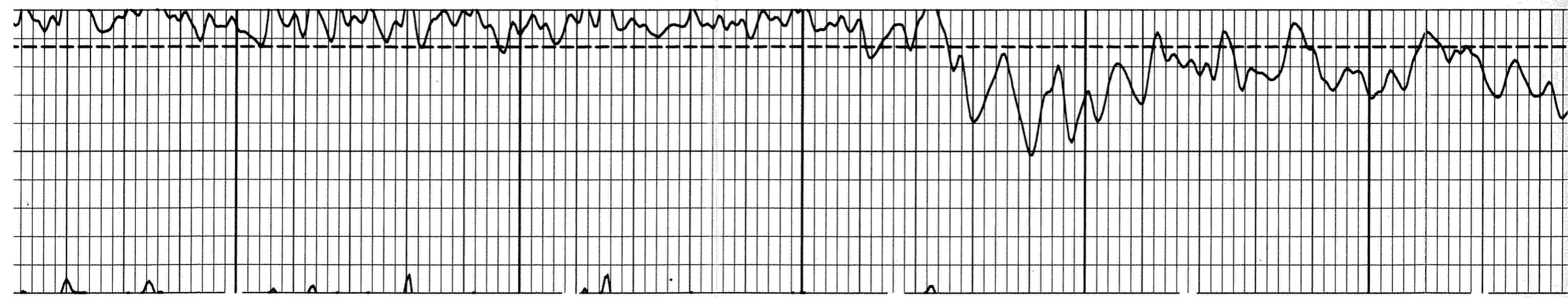




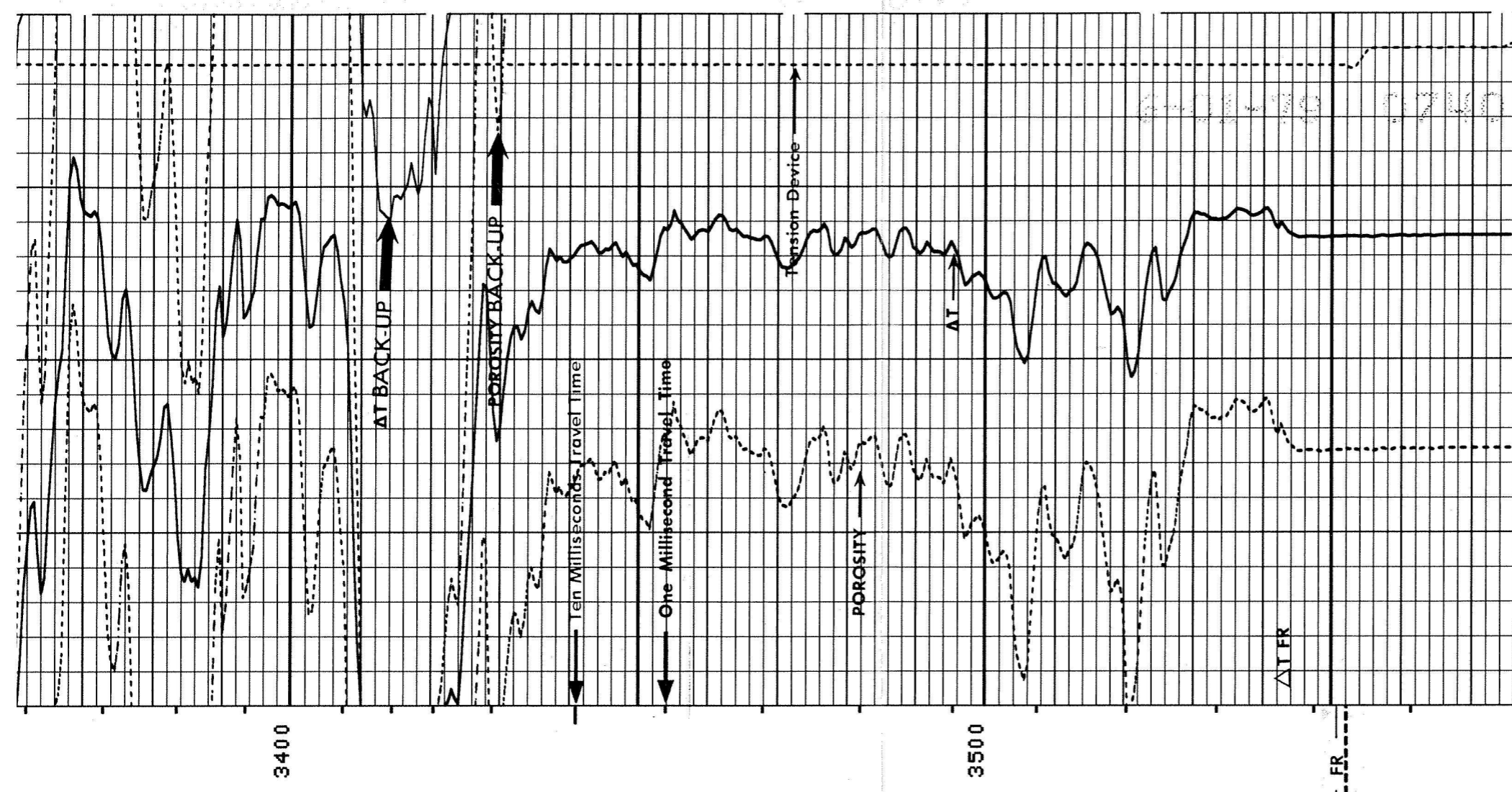


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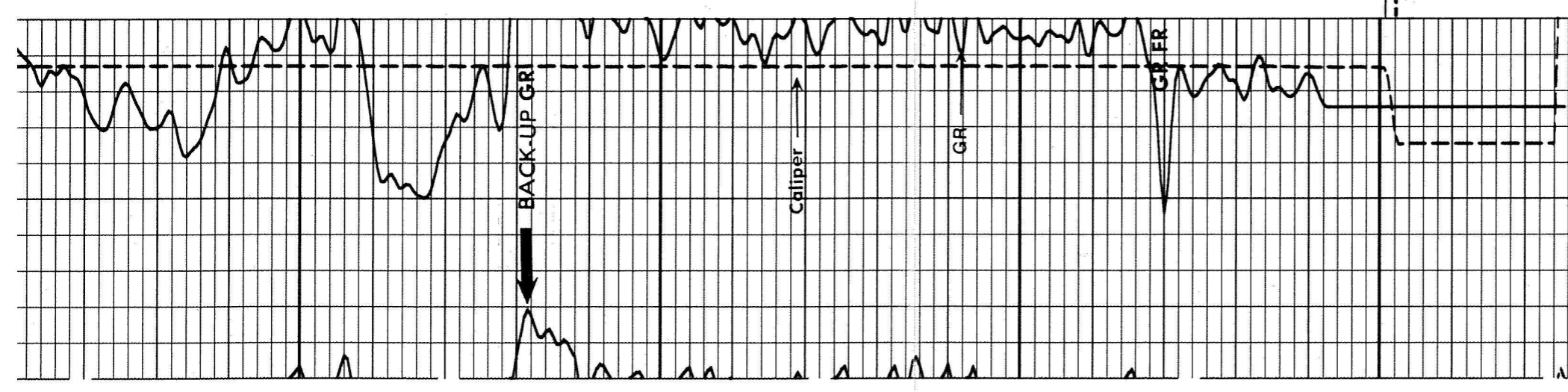
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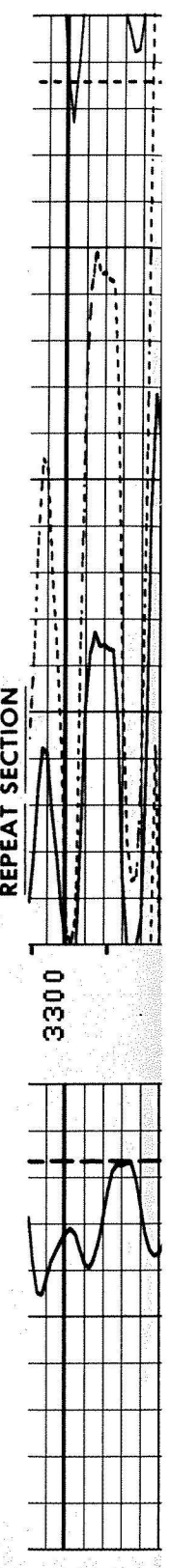
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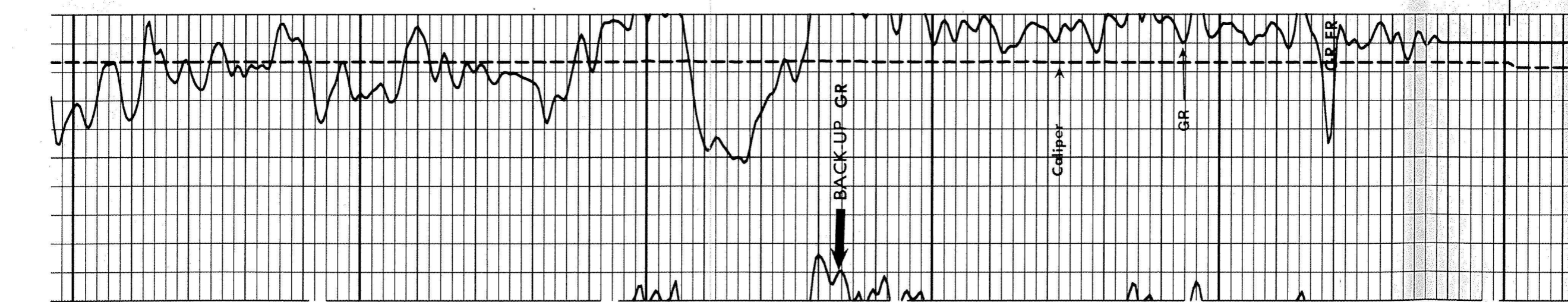
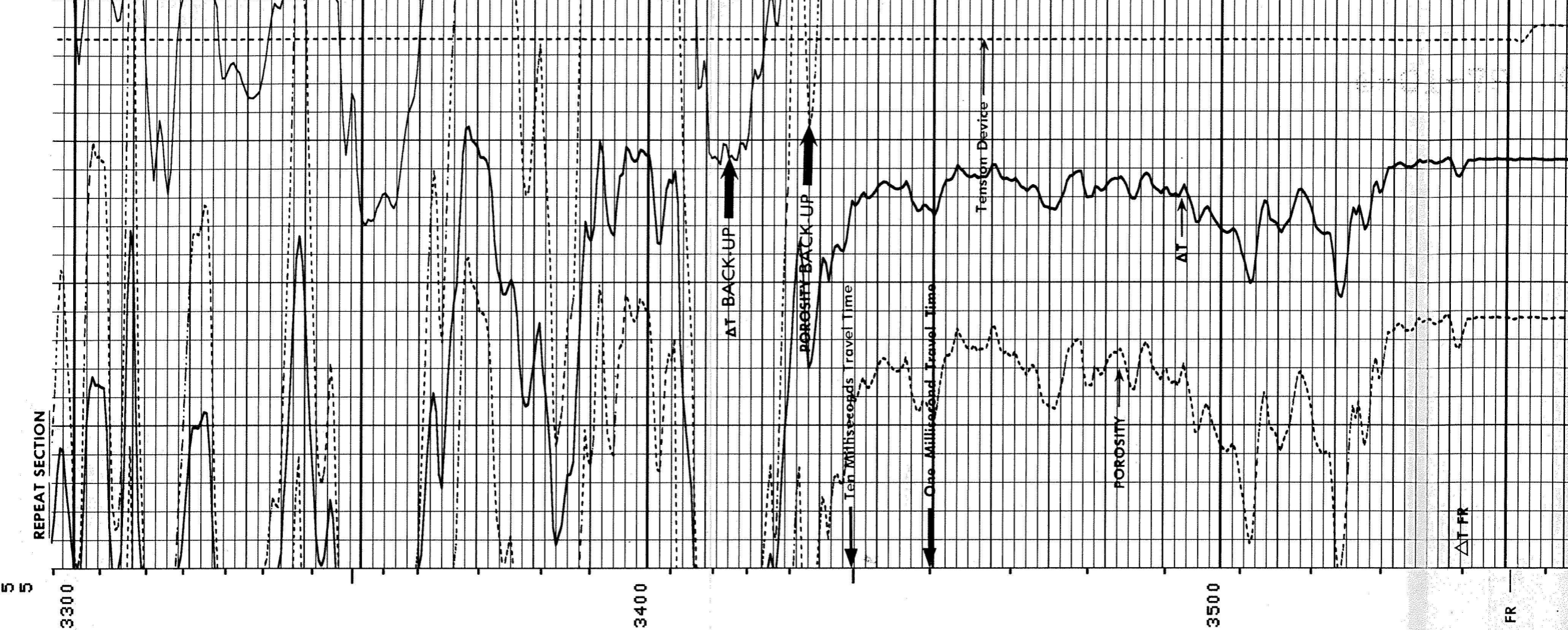


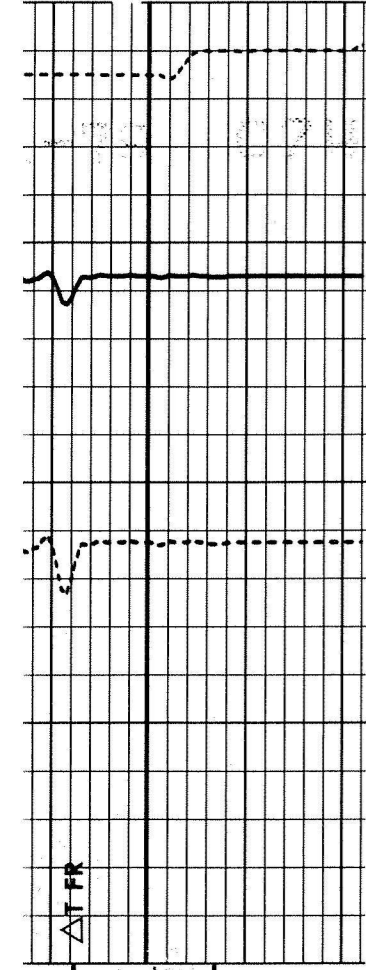
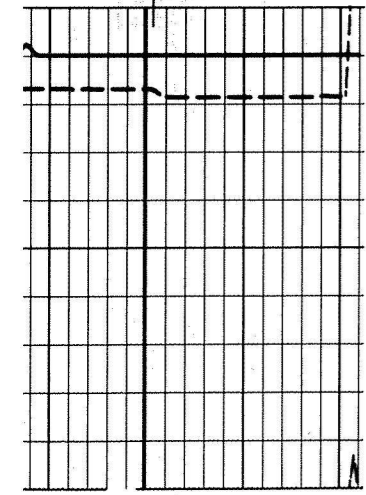
66666 55555



REPEAT SECTION







5550

CALI(IN)	16.00
GR (GAPI)	150.0
6.000	
0.0	

TENS(LB)	0.0
DT (US/F)	40.00
DT (US/F)	140.0
SPHIC	-0.100
10000.	

Gamma Ray

SCALE CHANGE

CALIPER	DIAM. IN INCHES
6	16
GAMMA RAY API UNITS	
30	130
130	230

DEPTH

Run 1

Run 2

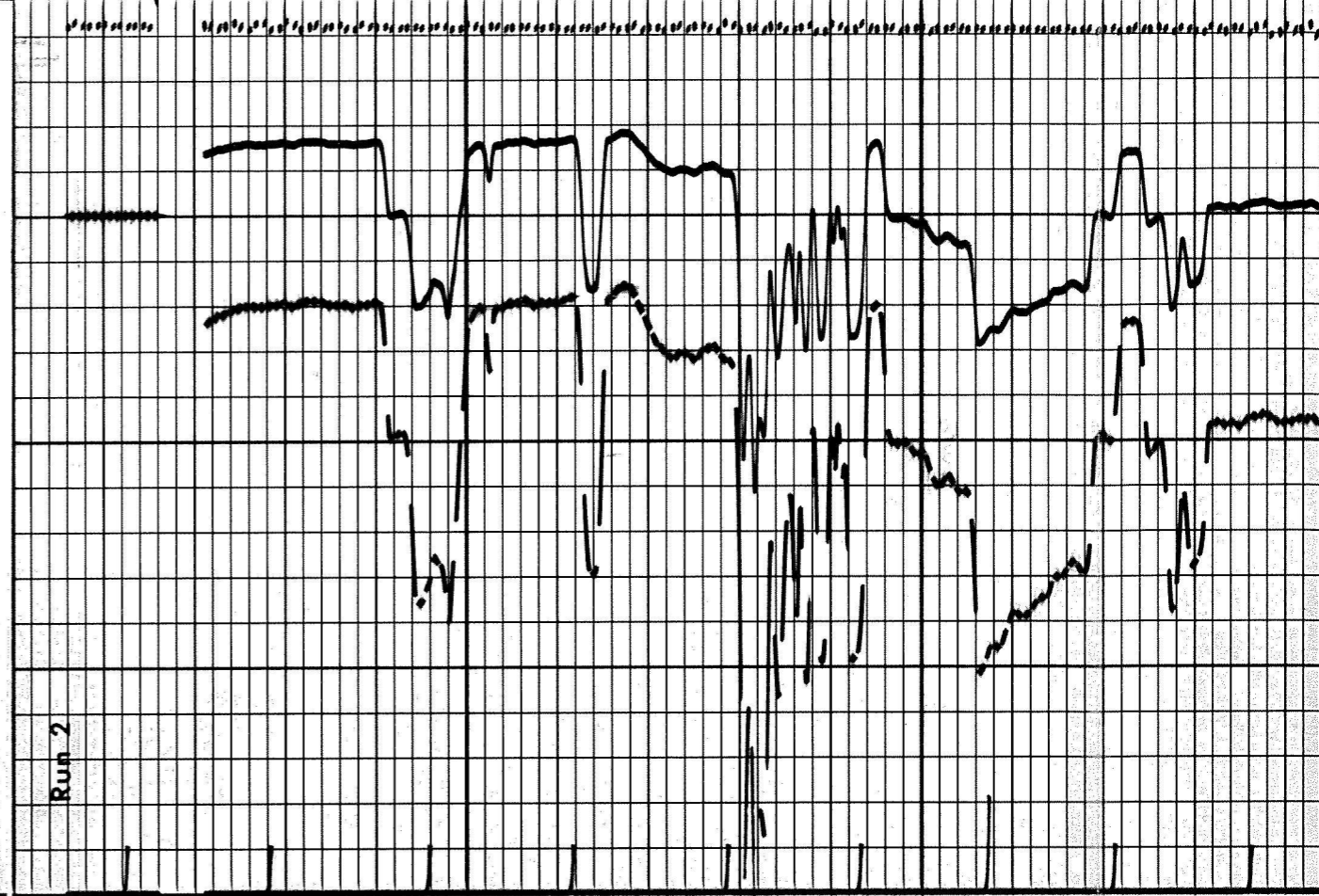
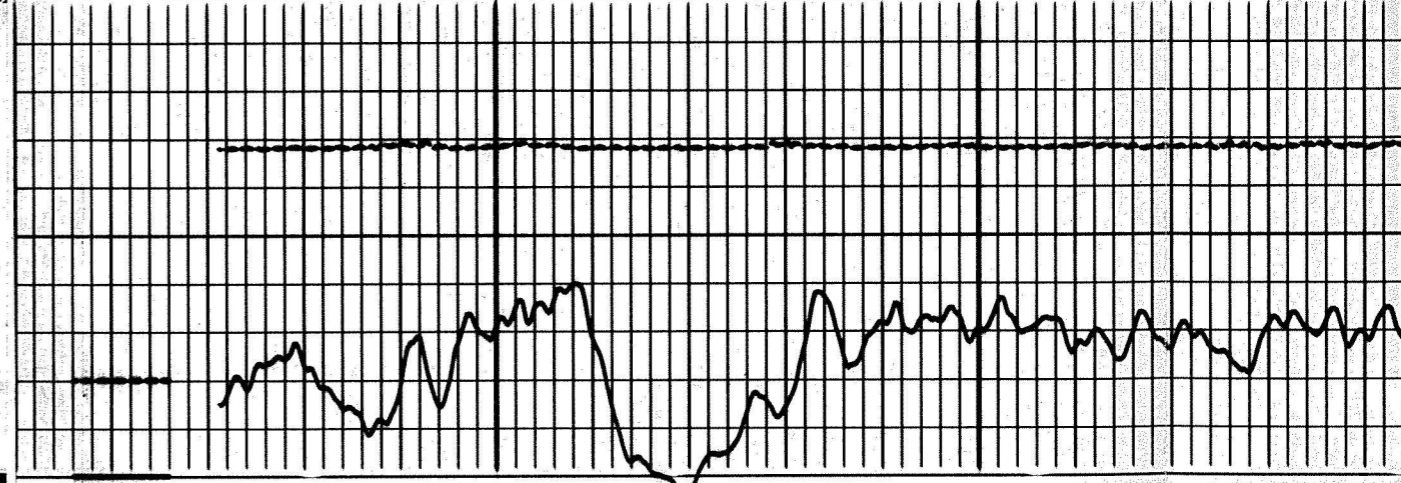
INTERVAL TRANSIT TIME

140	90	40
240	190	140

INTEGRATED TRAVEL TIME

SONIC PROSITY INDEX % ΔT = 51.3 MATRIX

30	20	10	0	-10
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3400

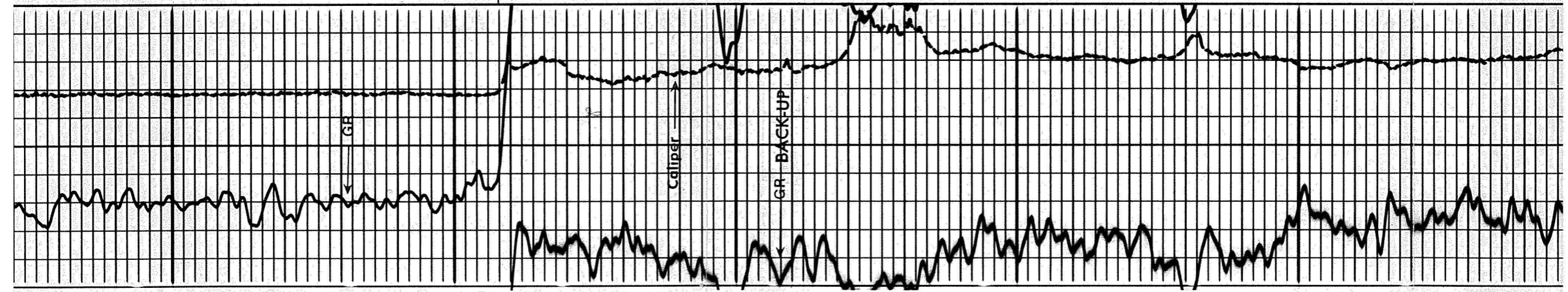


3500

Casing

3600

3700

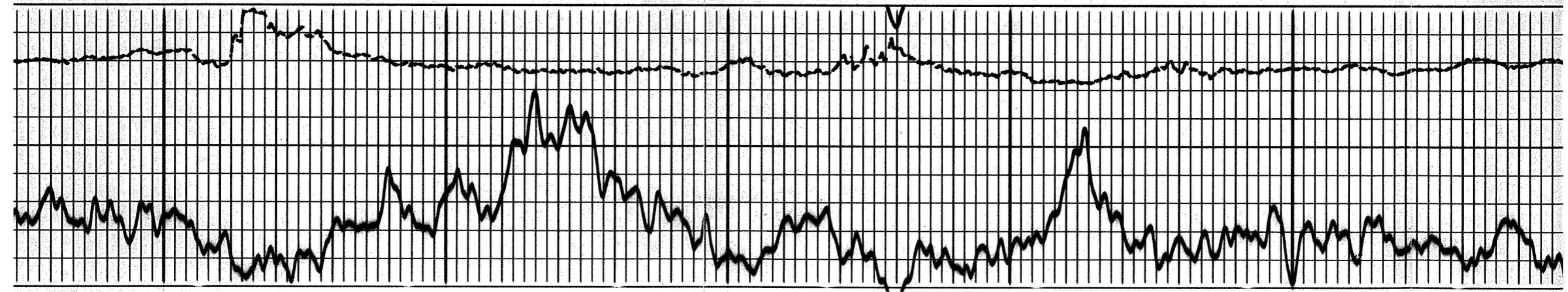


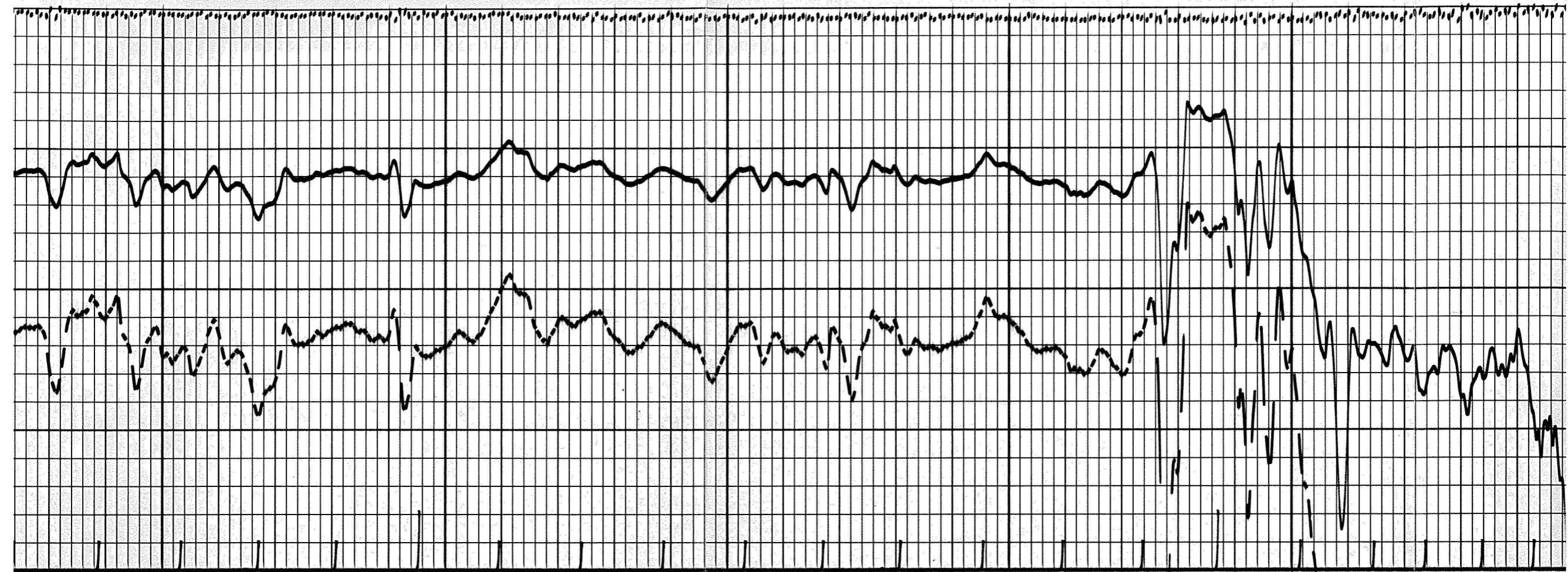


3800

3900

4

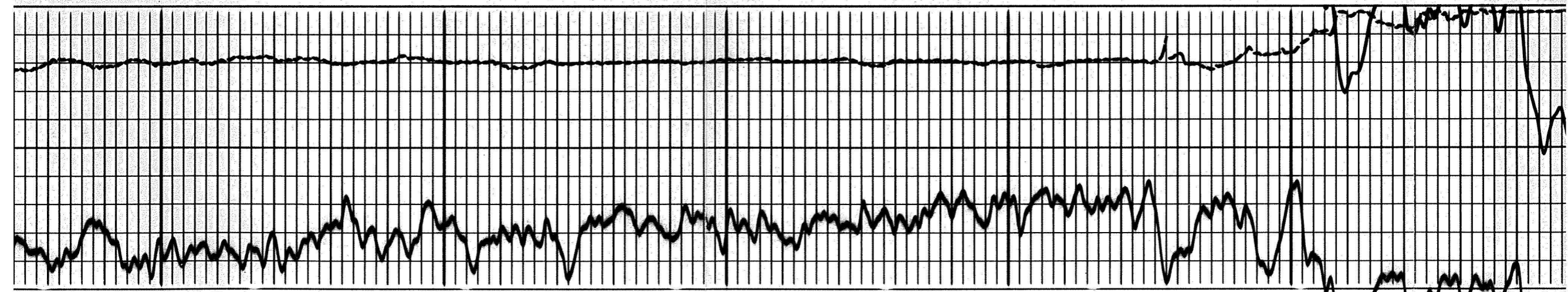


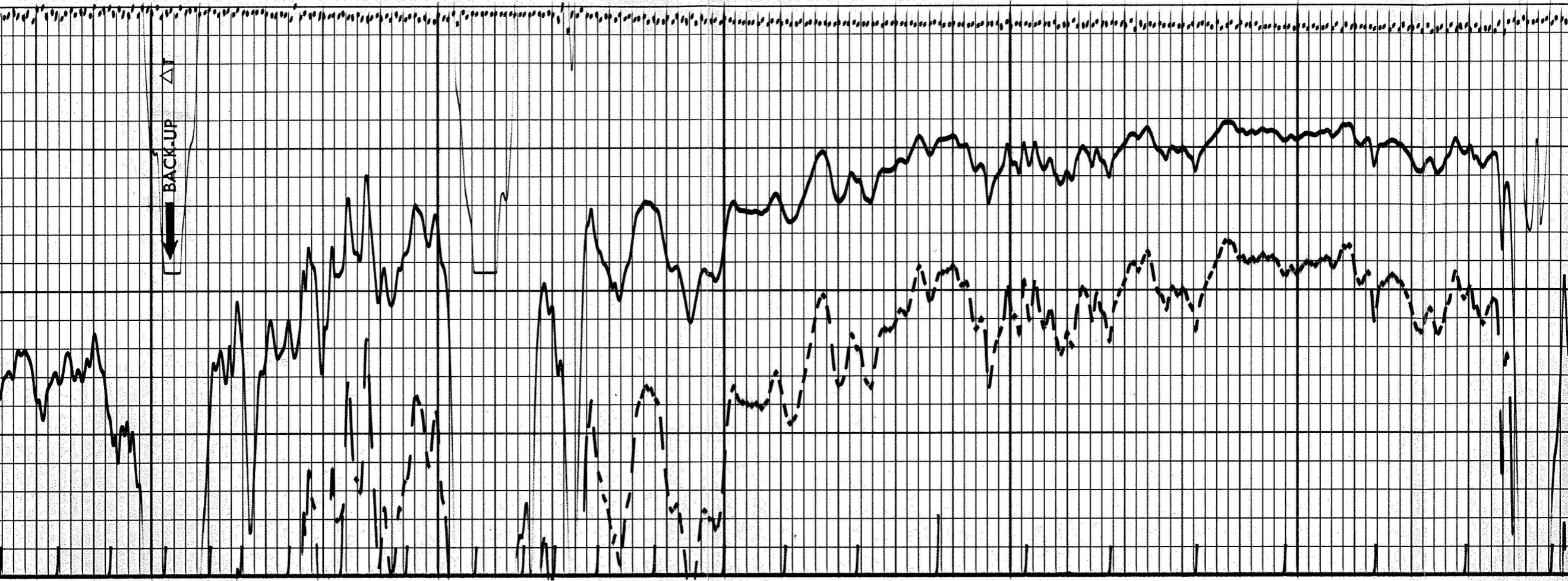


4000

4100

4200

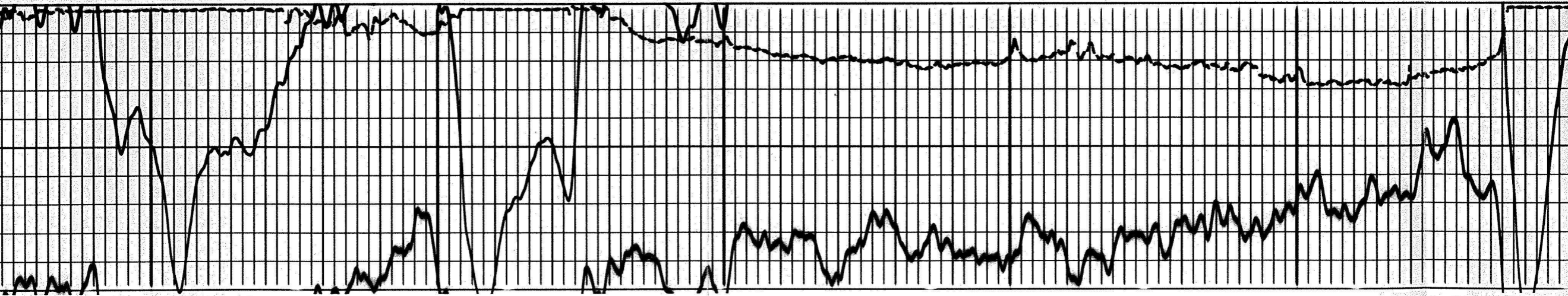


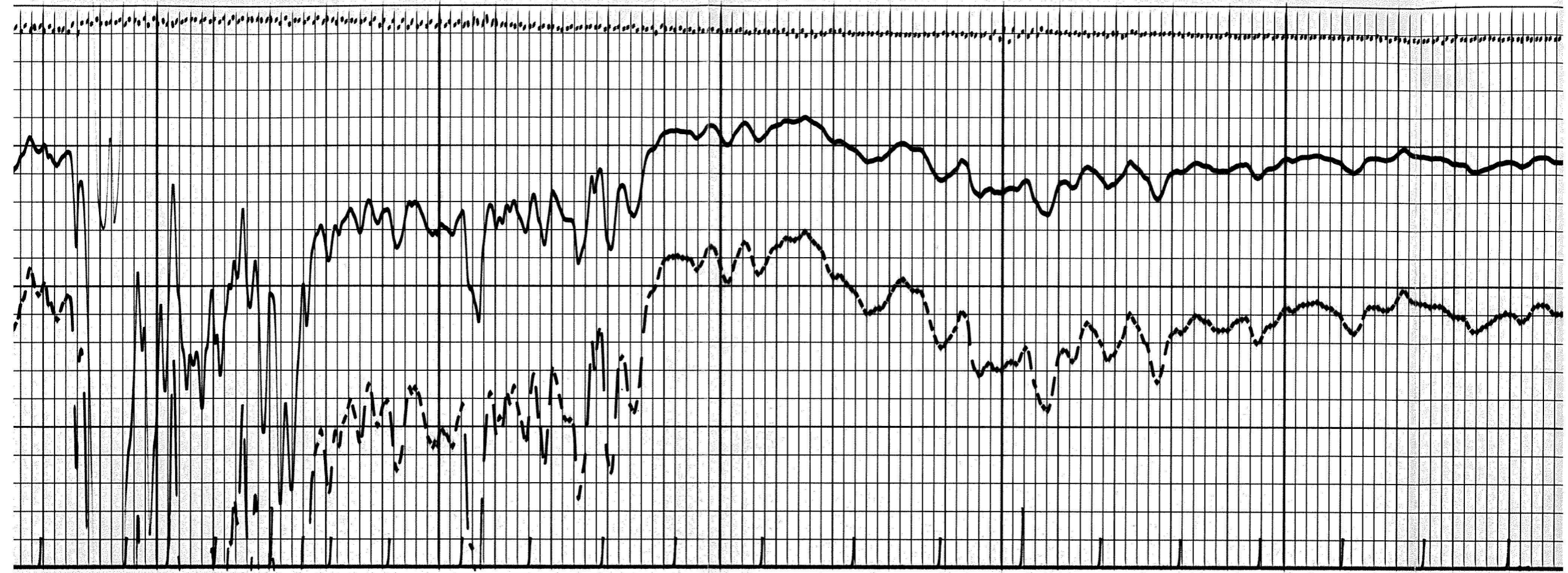


4300

4400

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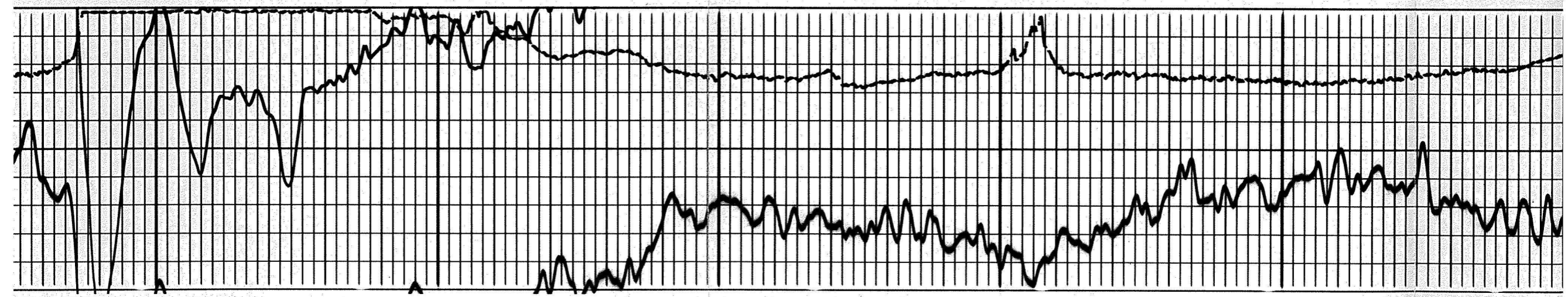


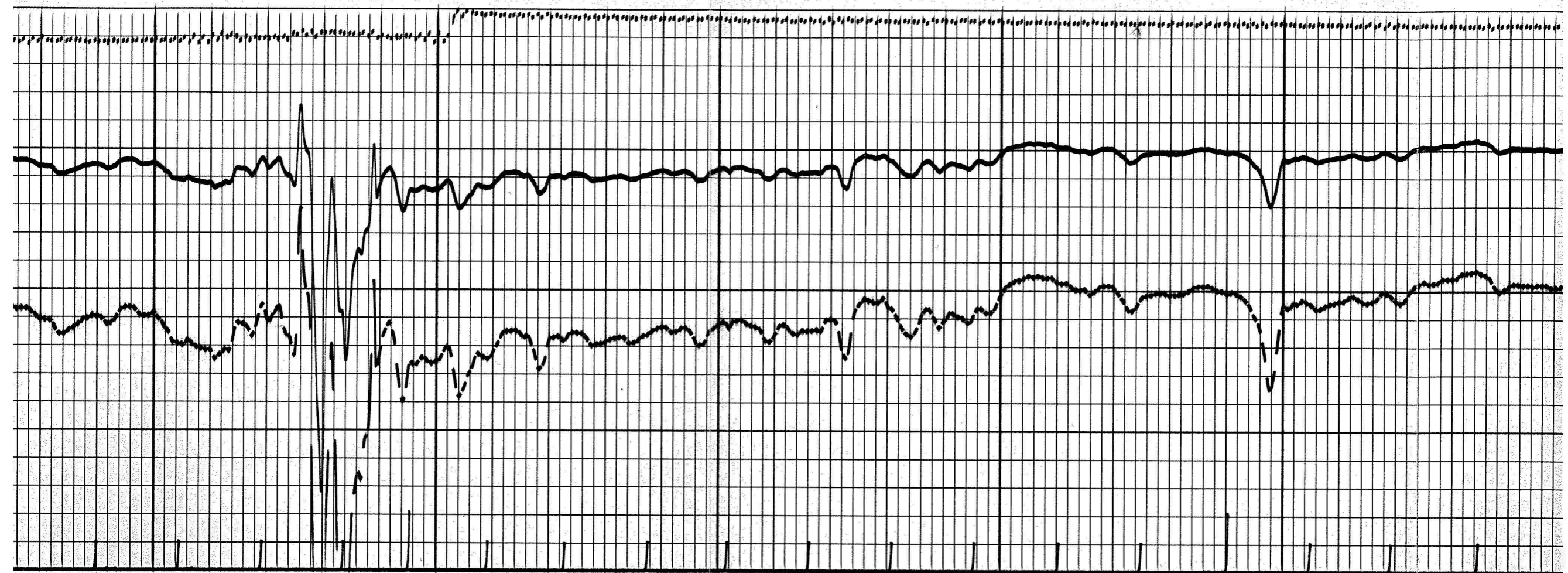


4500

4600

4700

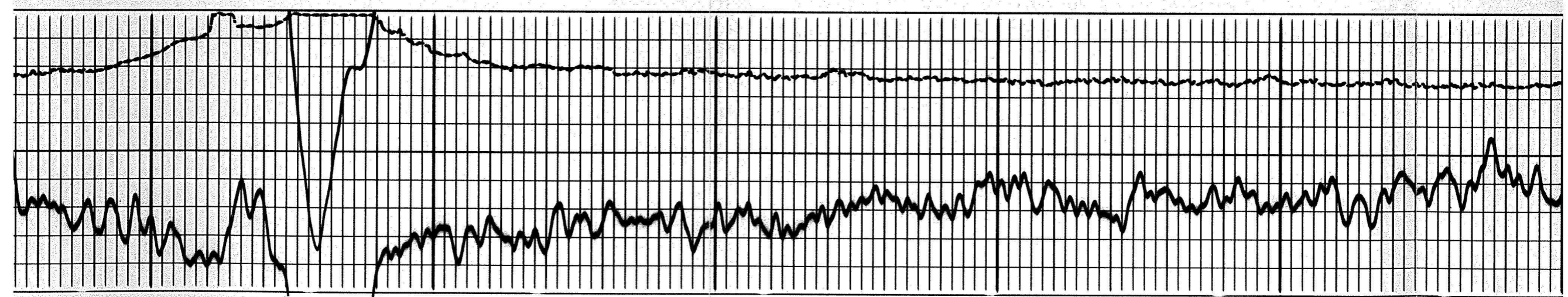


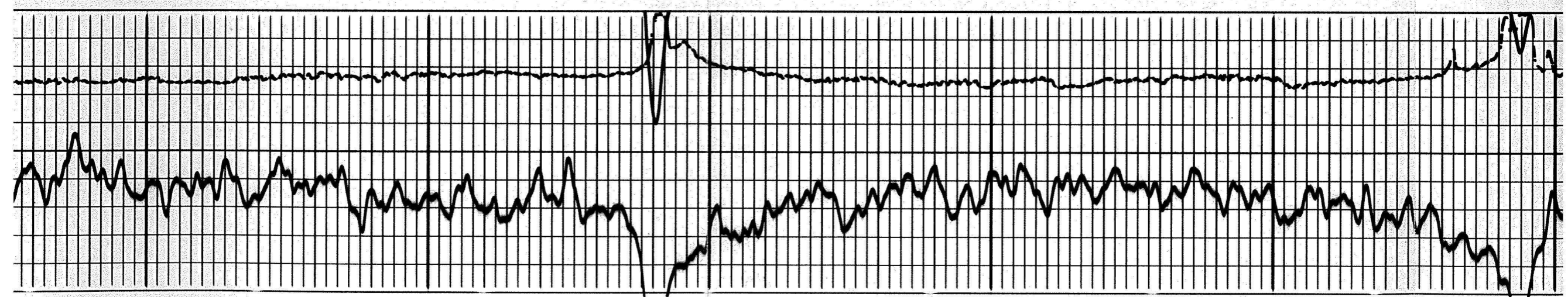
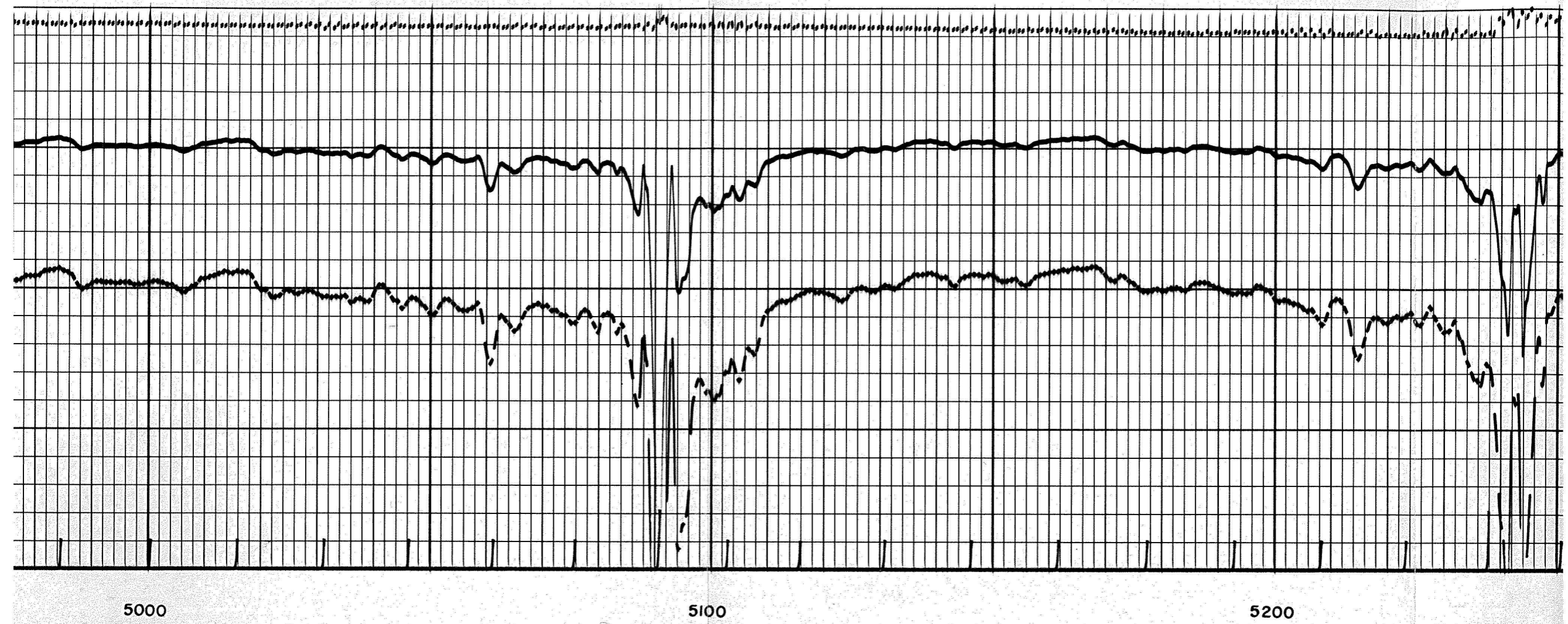


4800

4900

5000



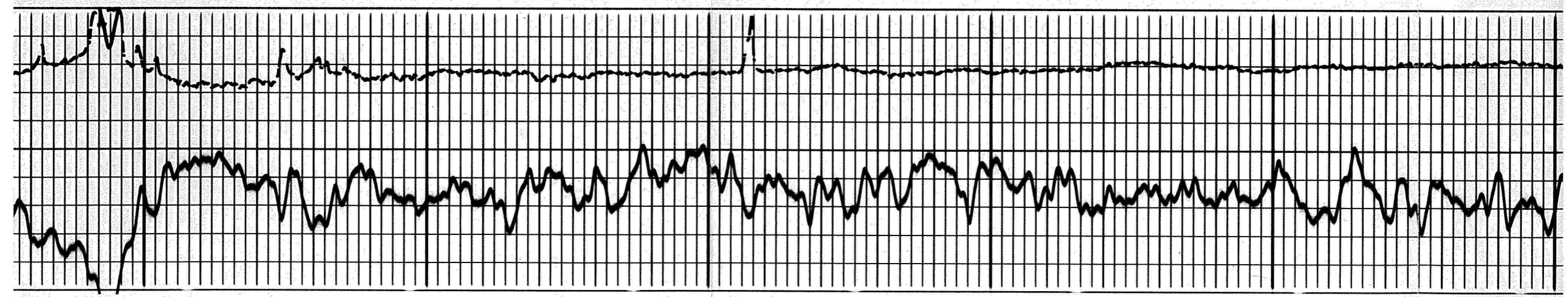




5300

5400

550



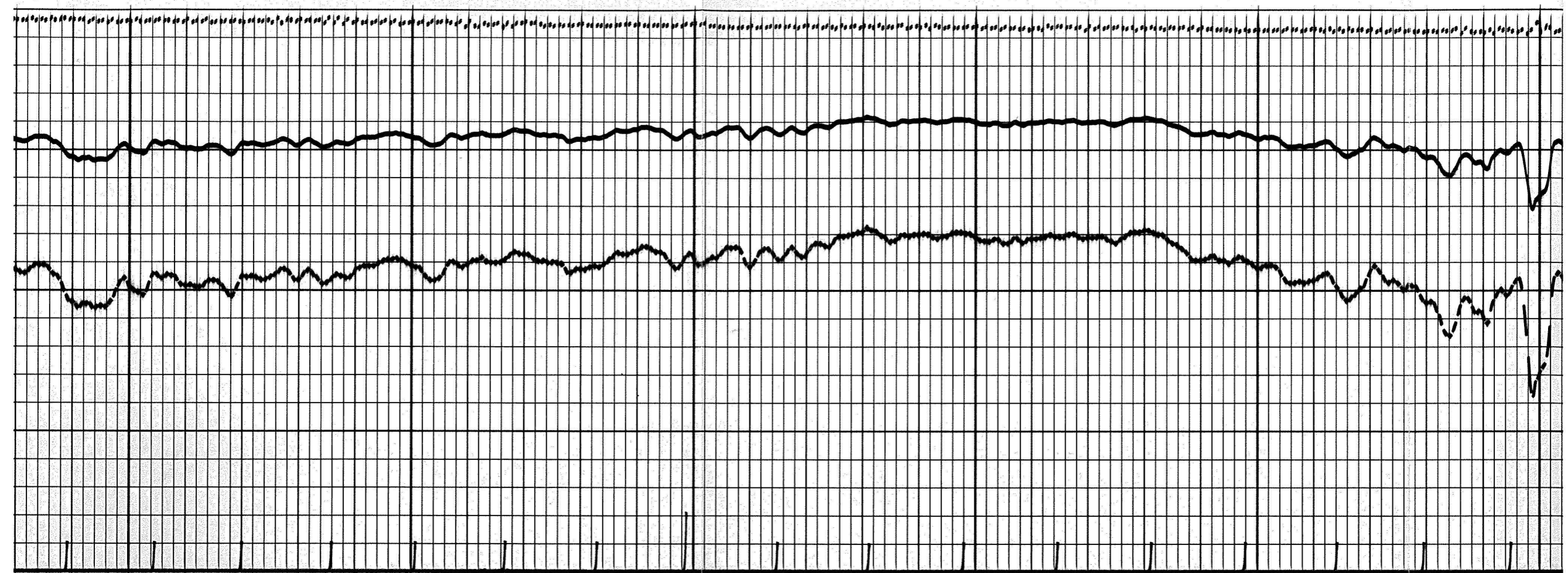


5500

5600

5700

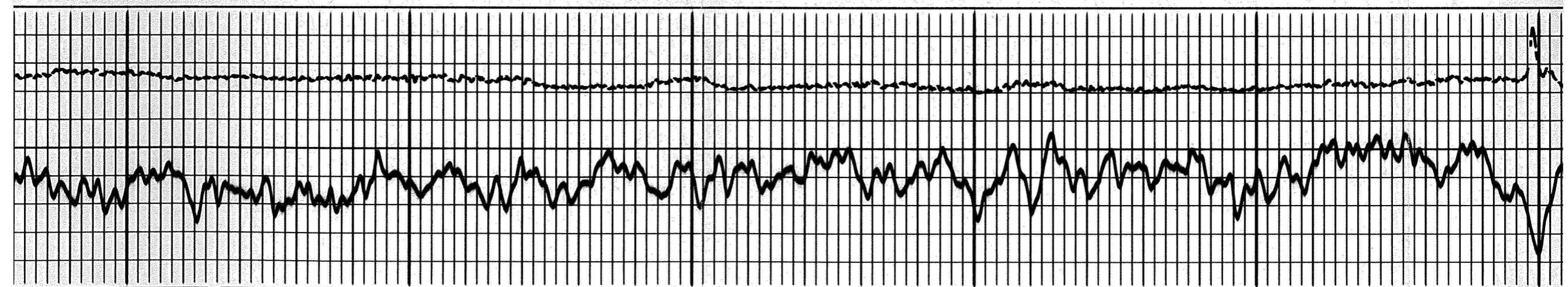




5800

5900

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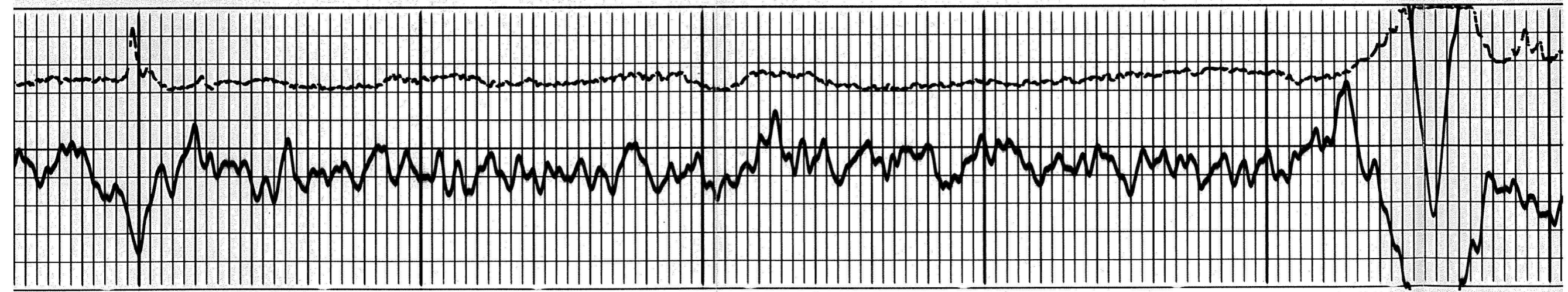




6000

6100

6200

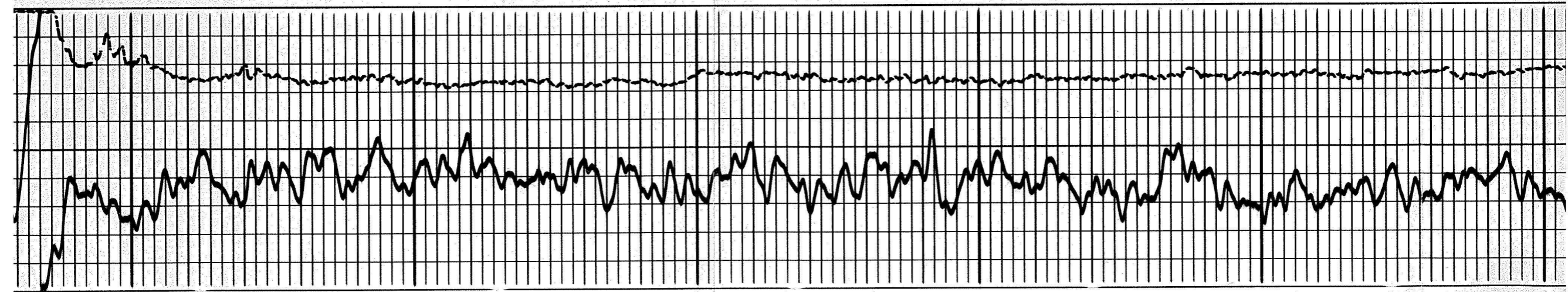


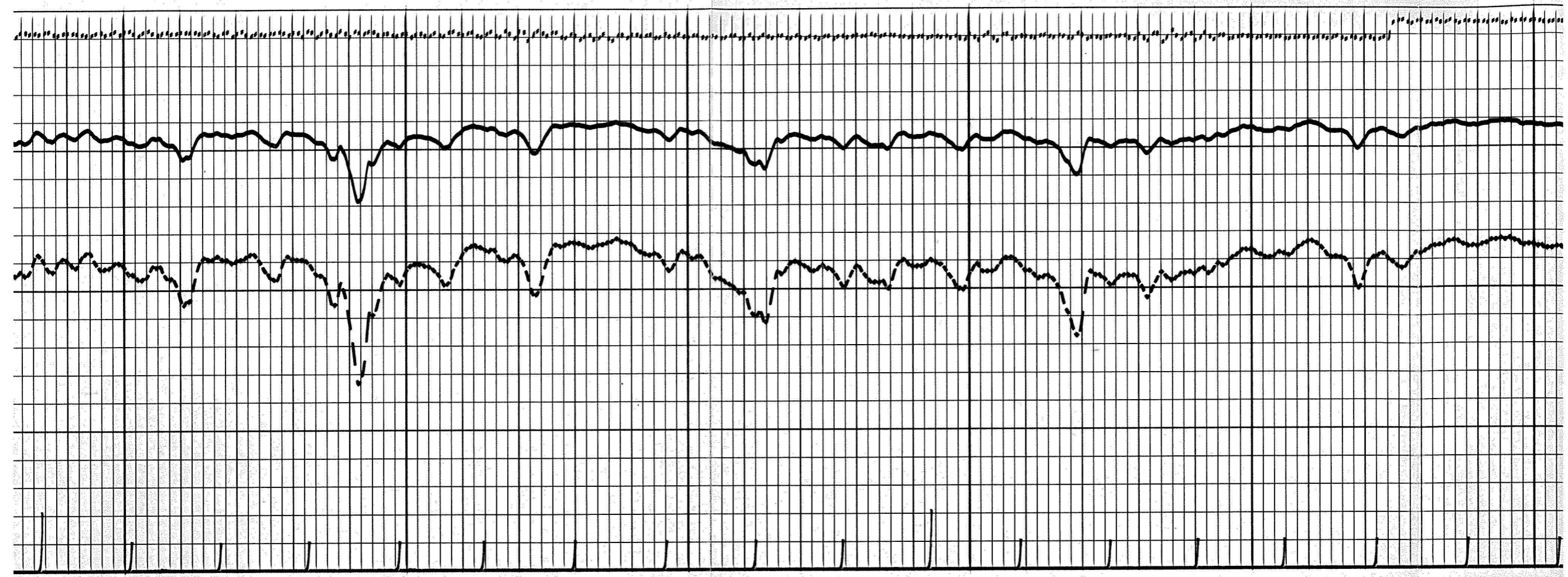


6300

6400

6500

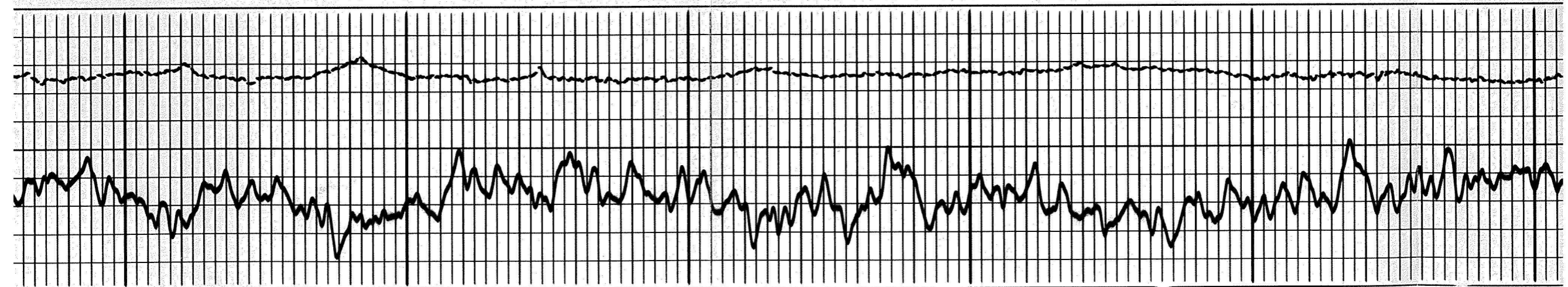




6500

6600

6700

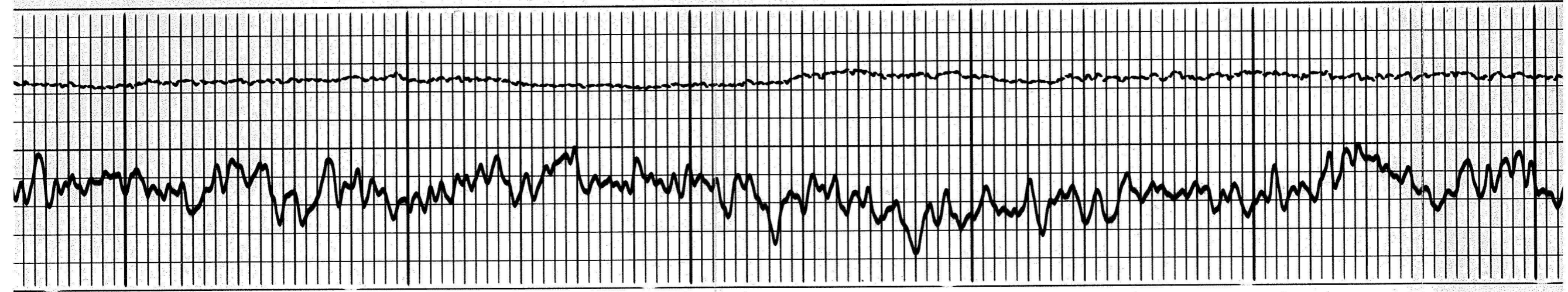


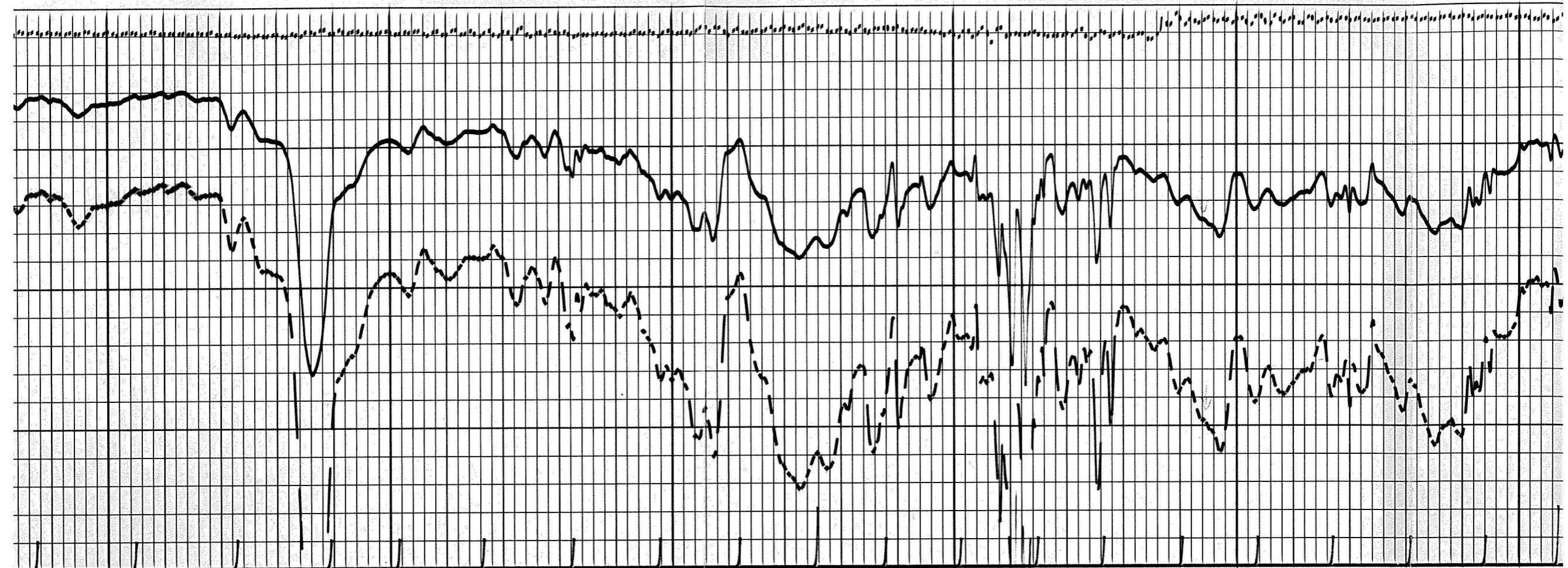


6800

6900

7000

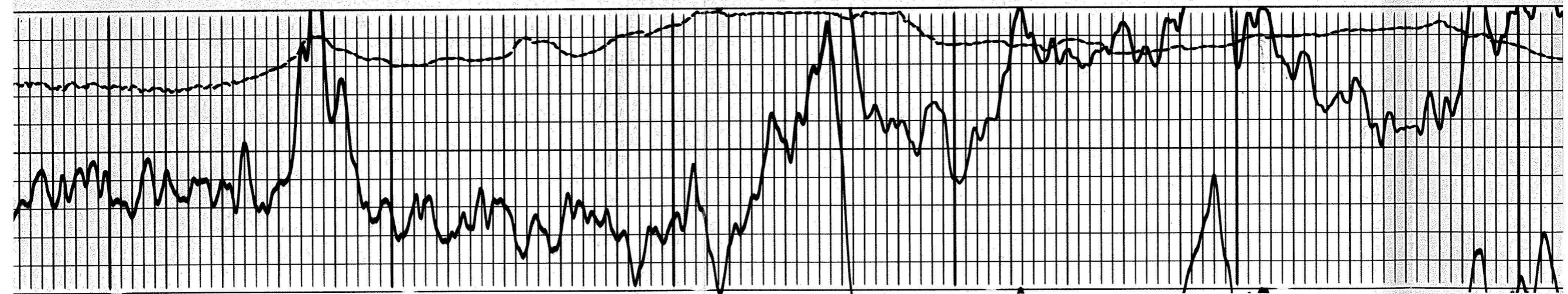


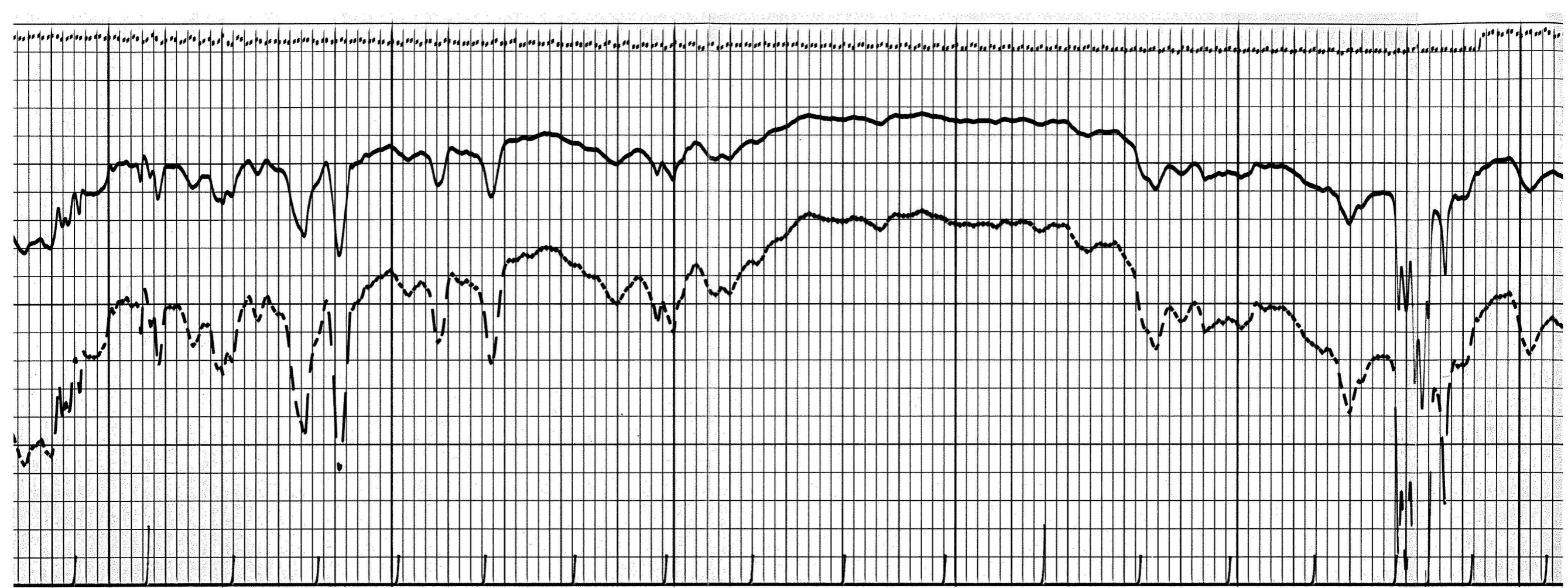


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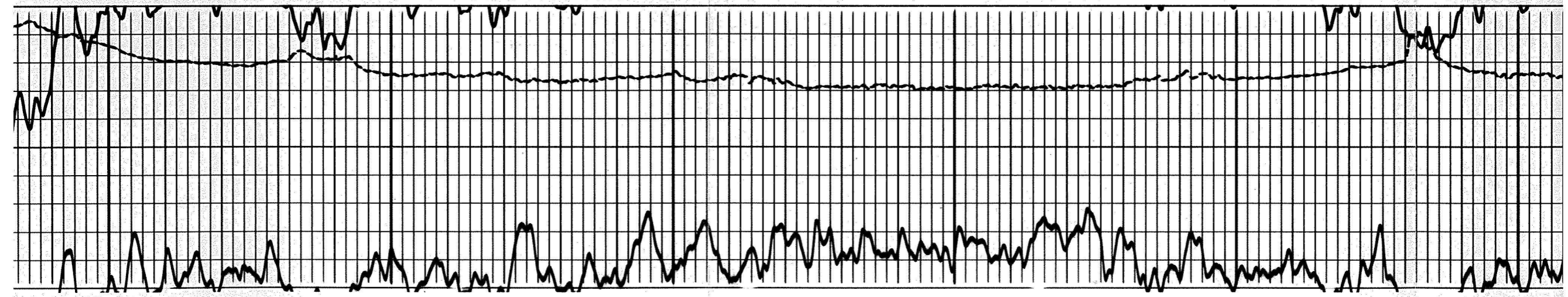




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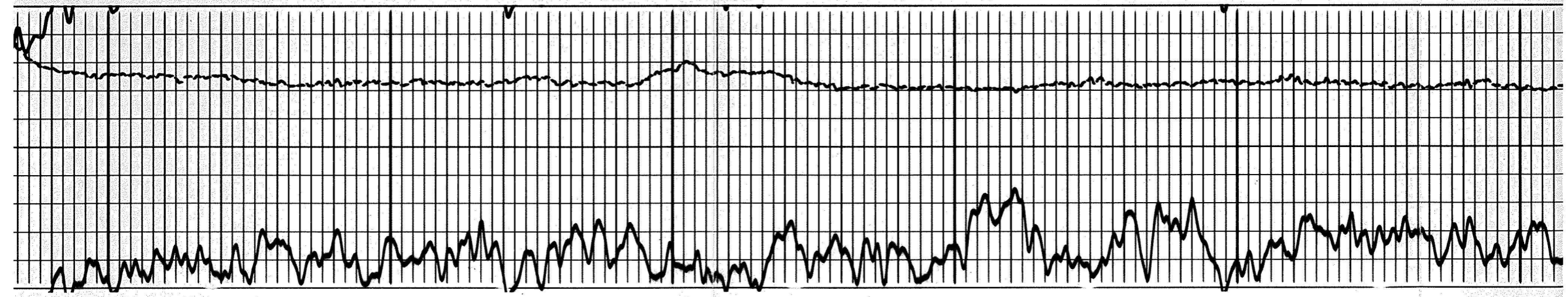


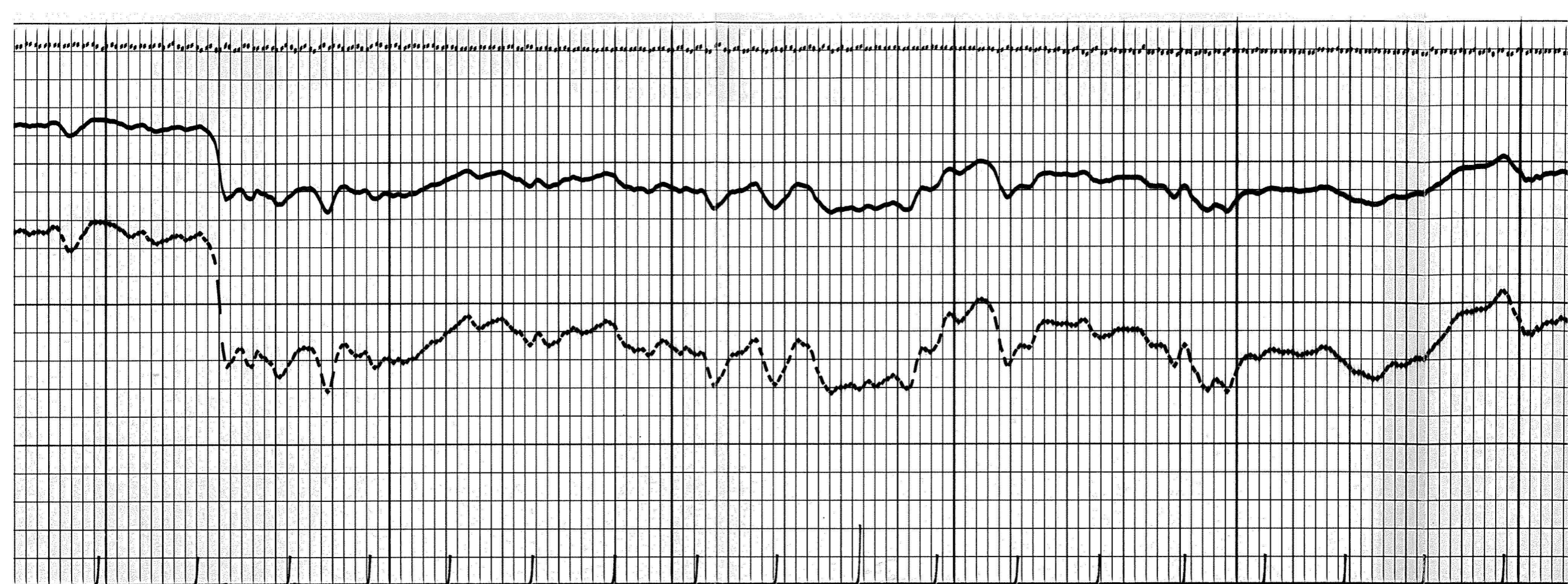


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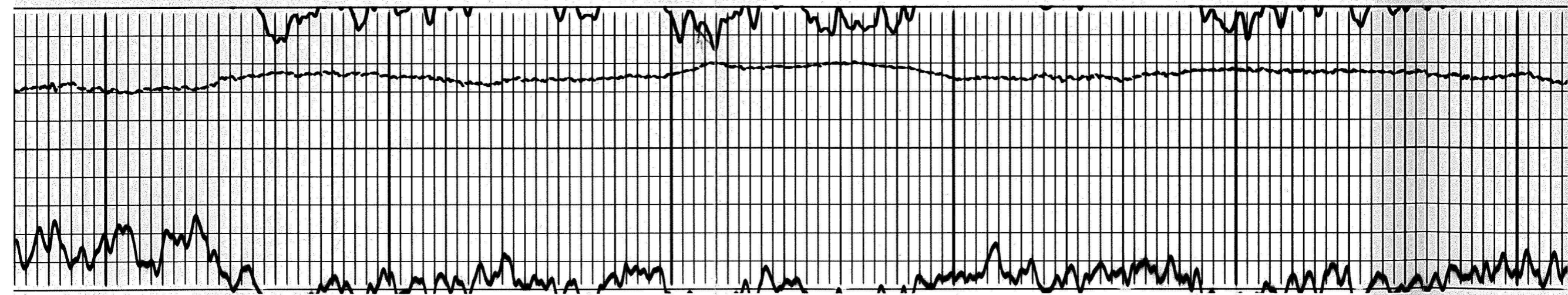


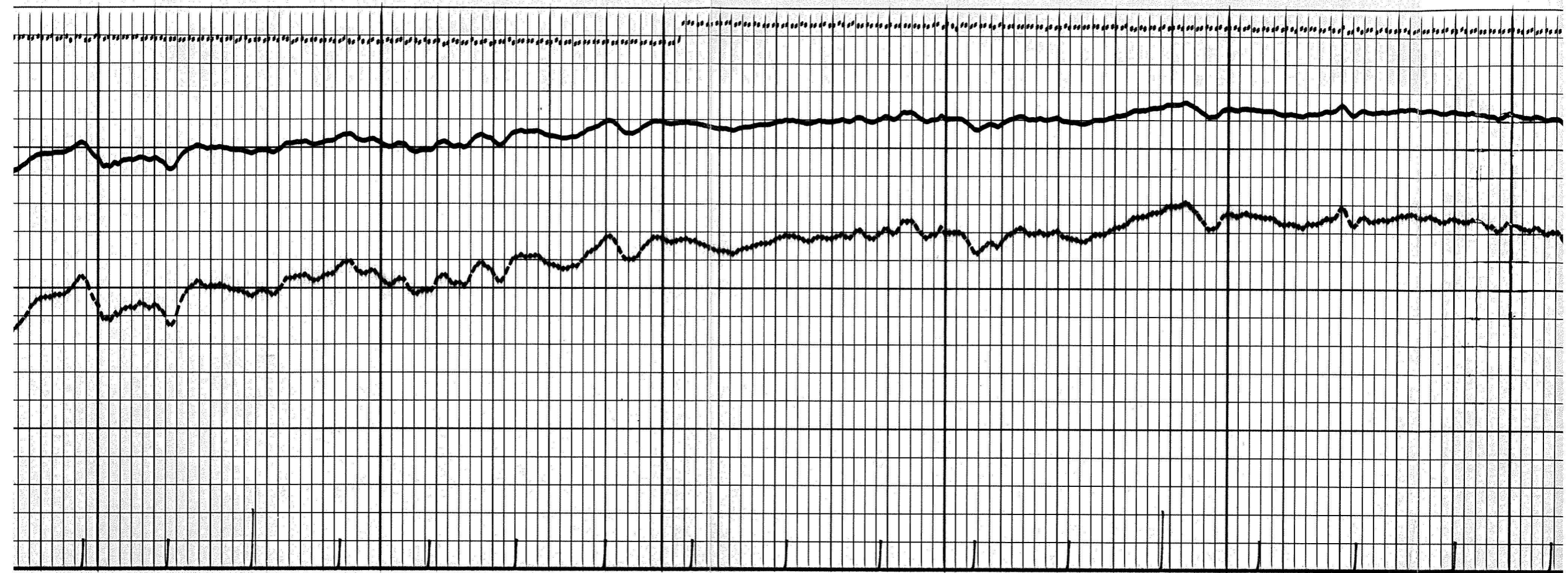


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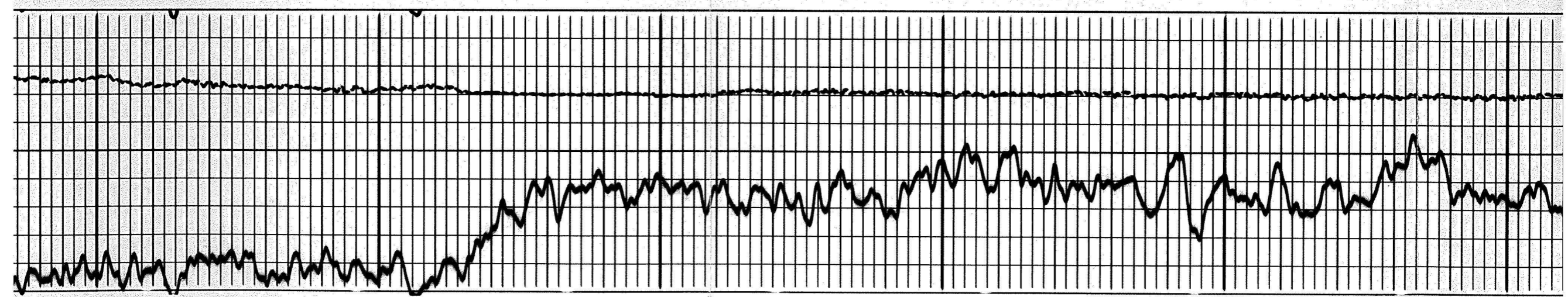


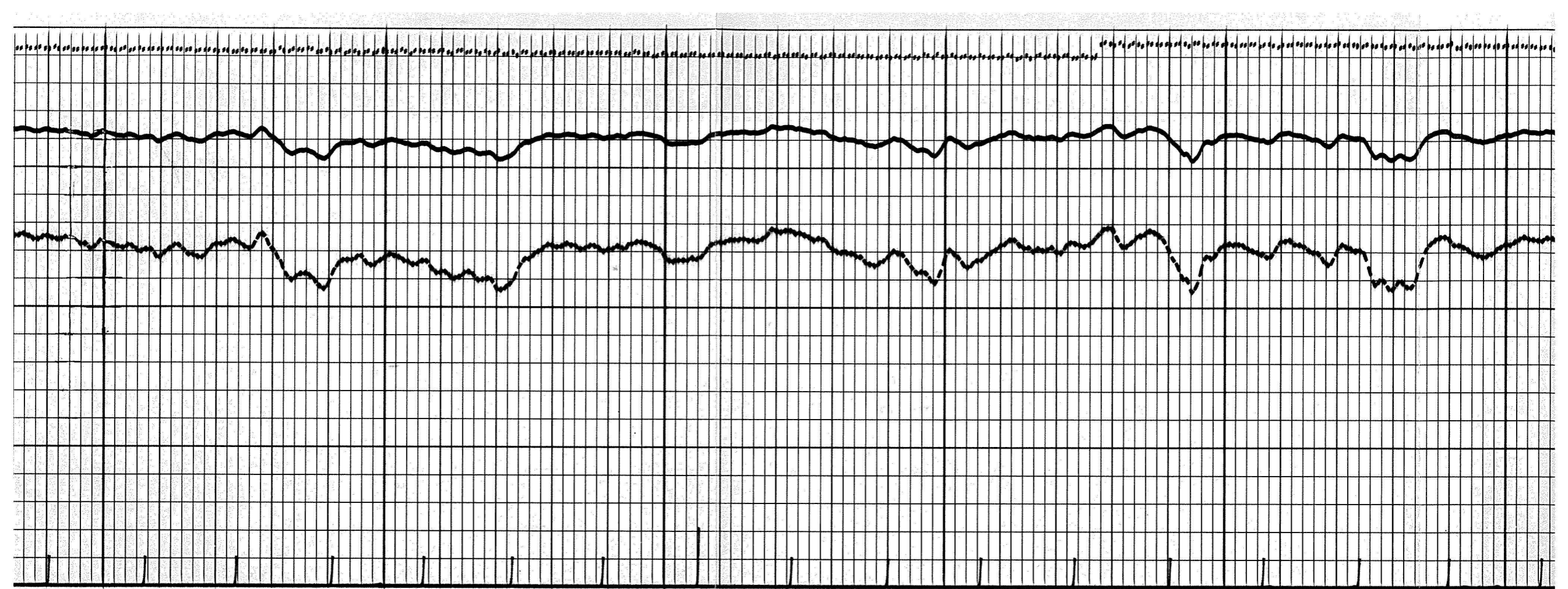


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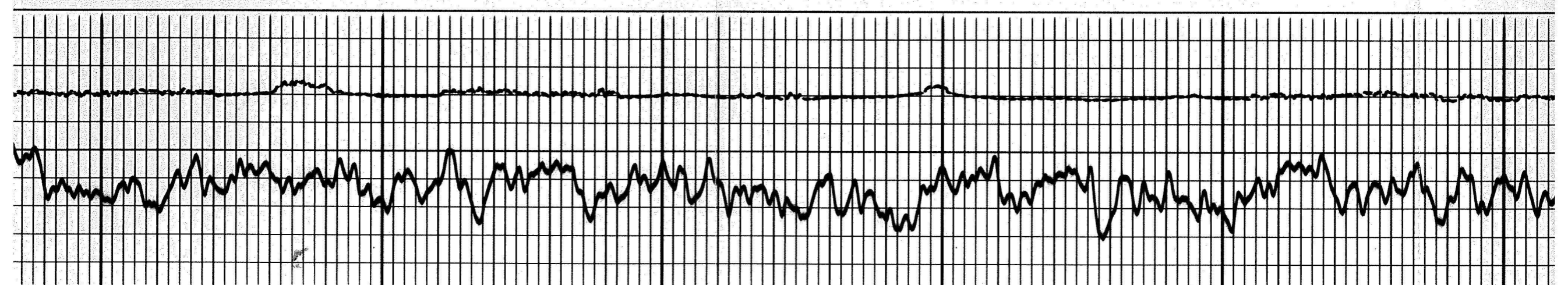


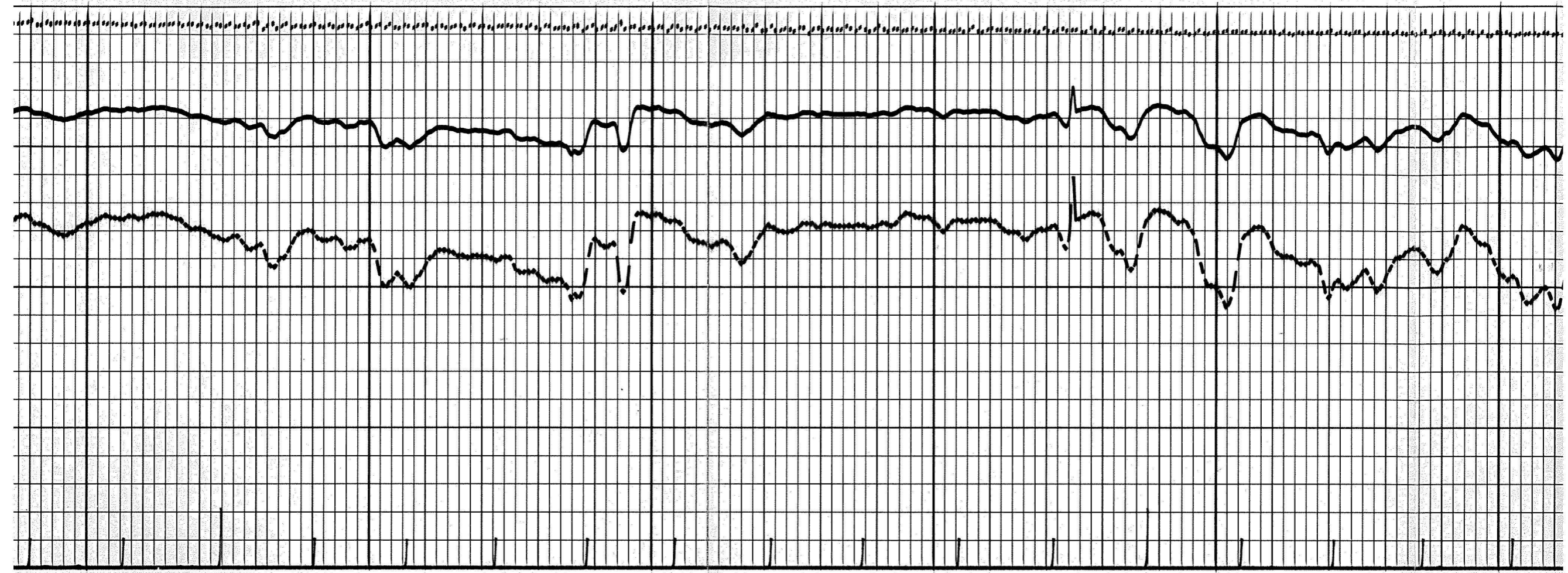


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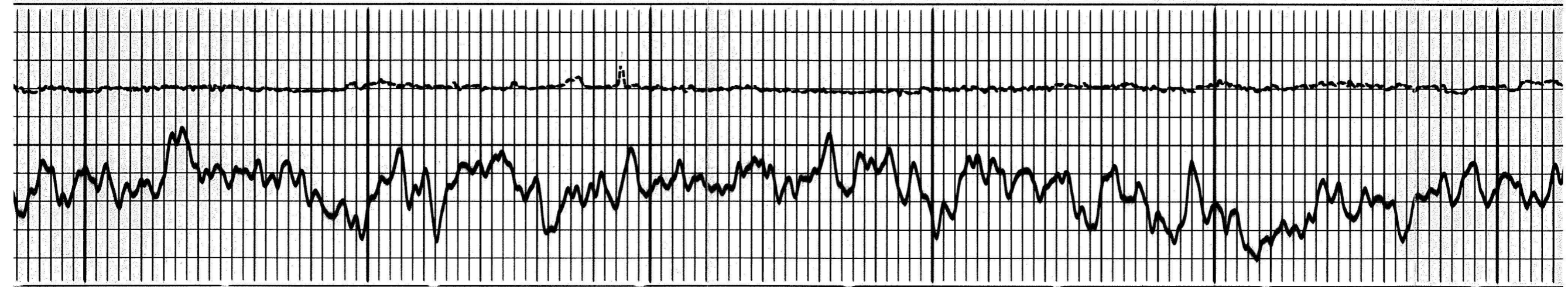




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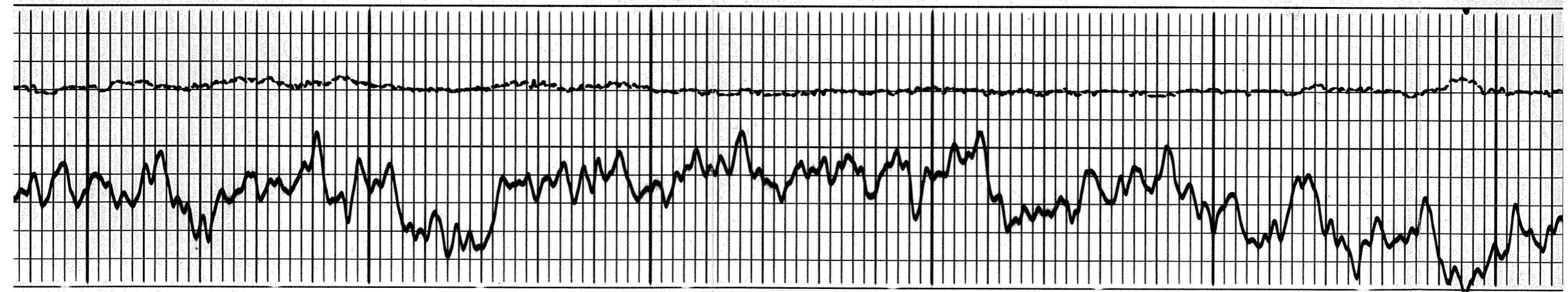




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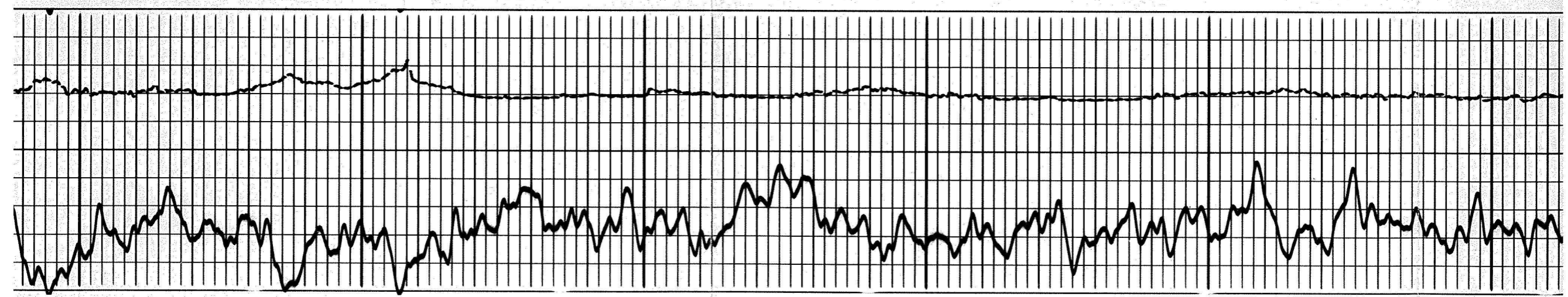




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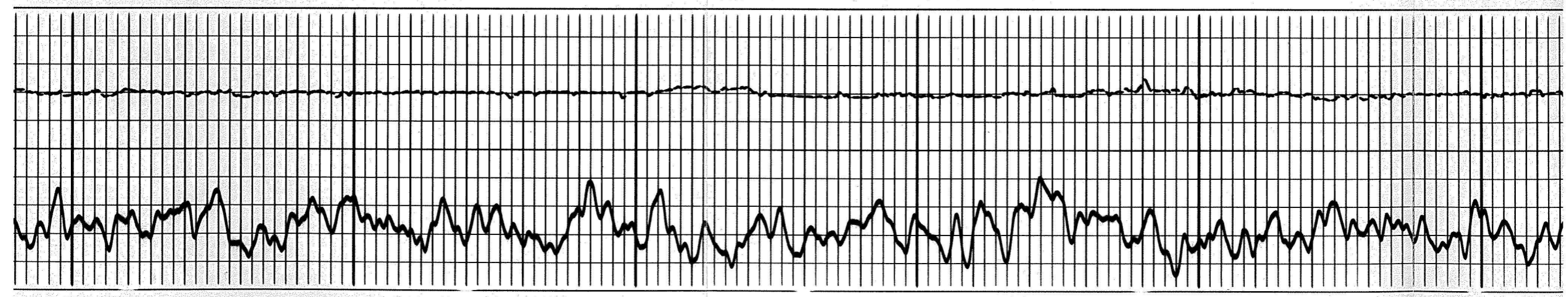


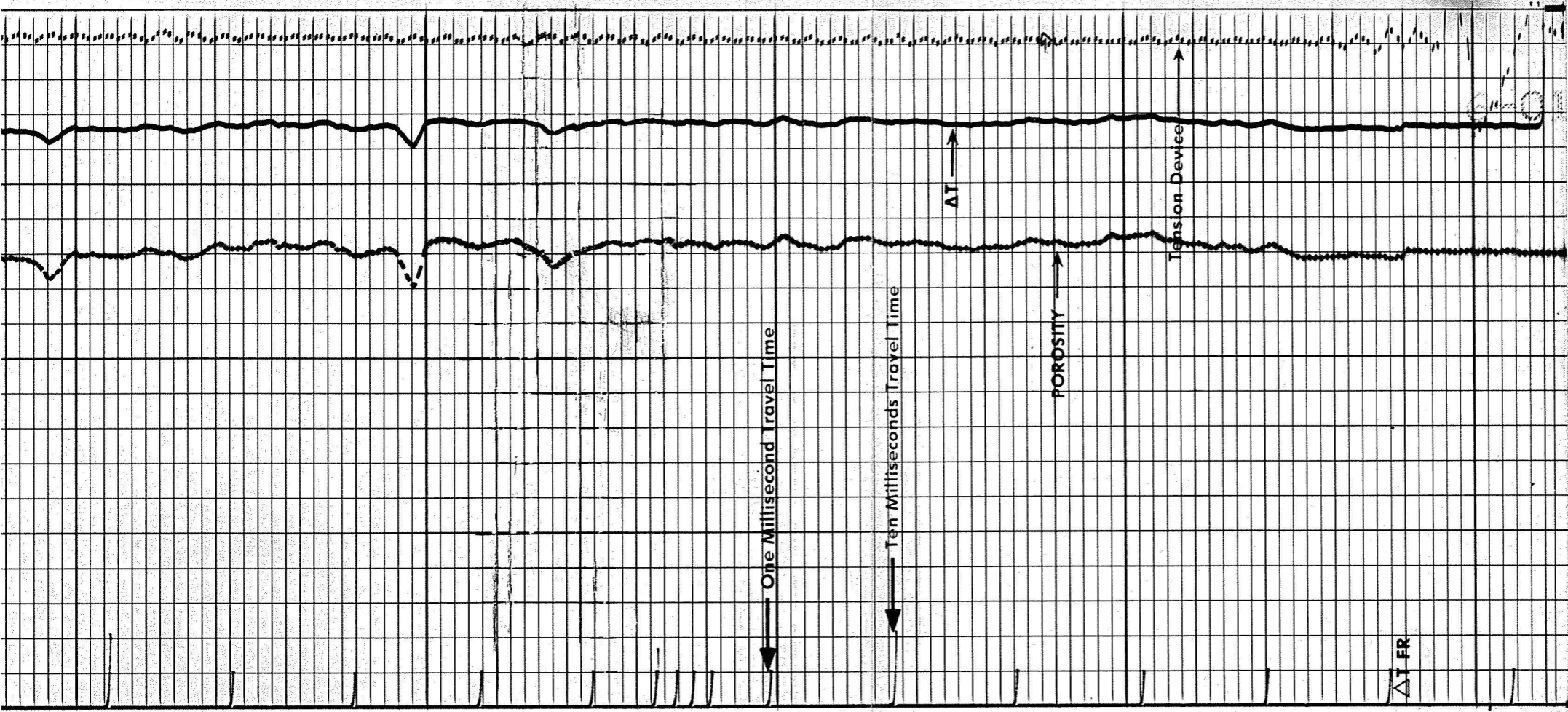


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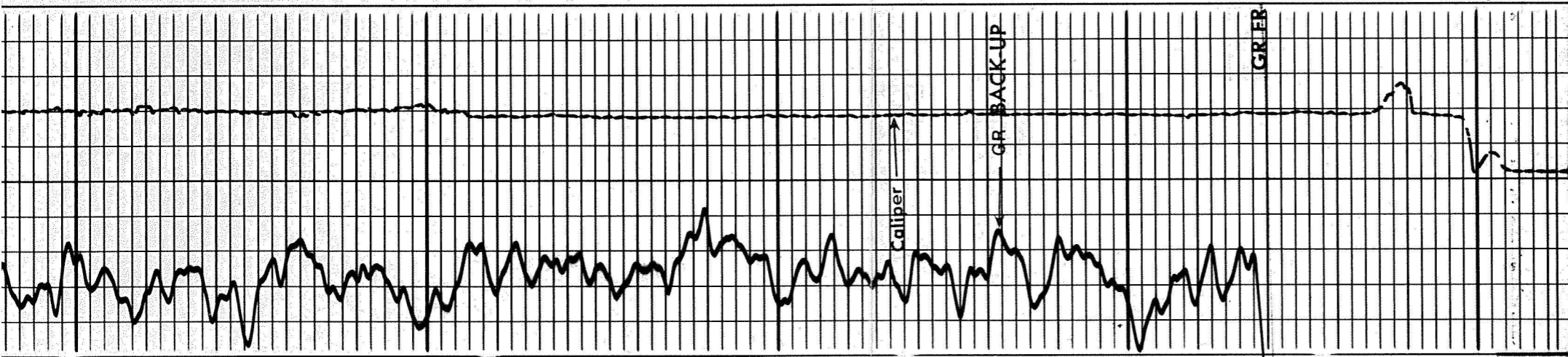


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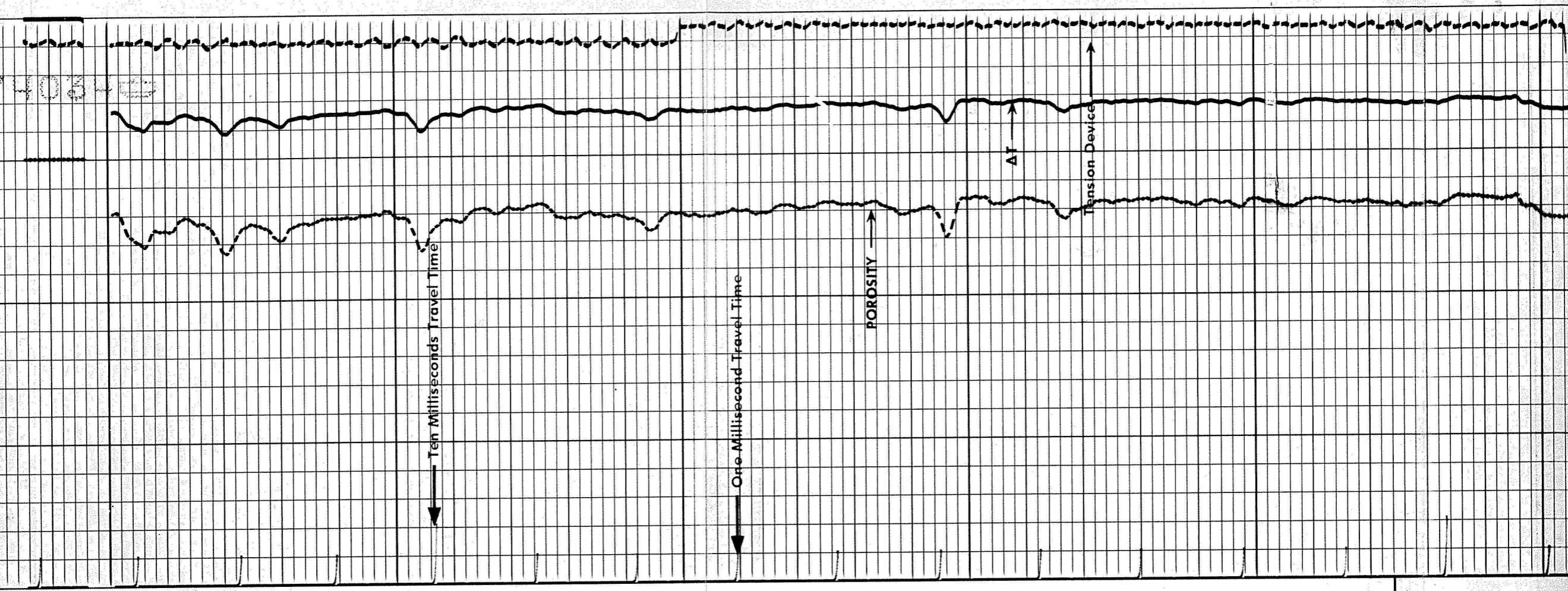
9600

9700

REPEAT SECTION



9400

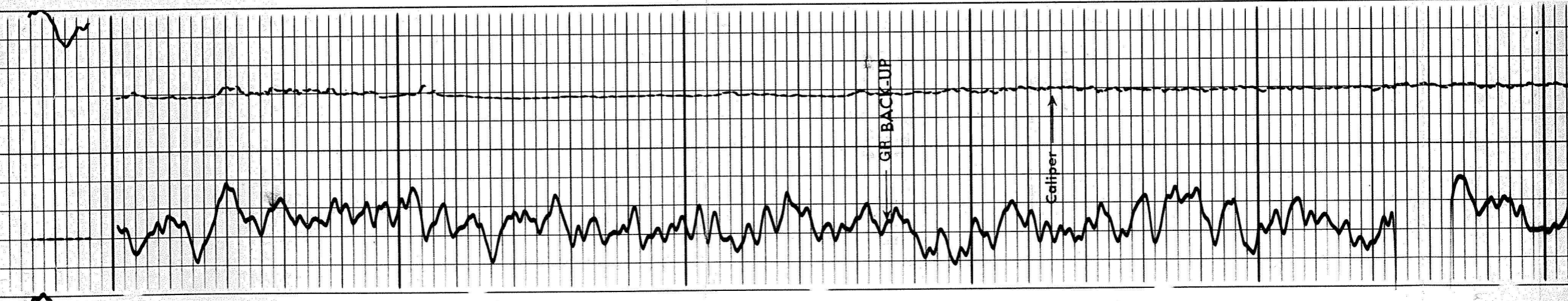


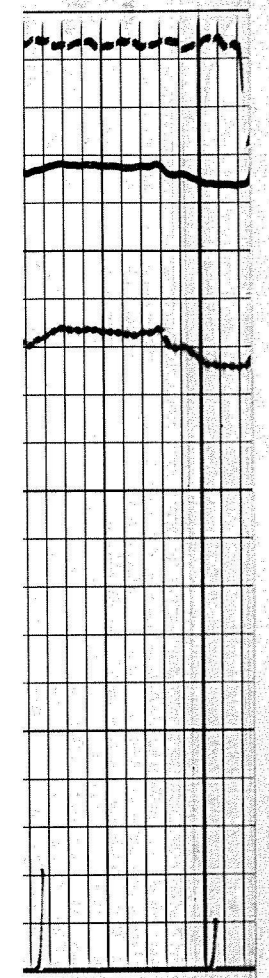
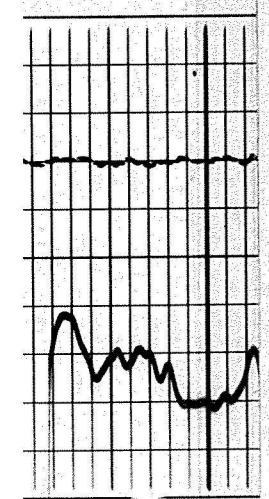
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9500

9600

FR





CALJIN 2 16.00
 GR (GAPI) 130.0
 Run 2

DT (US/F) 140.0
 DT (US/F) 240.0

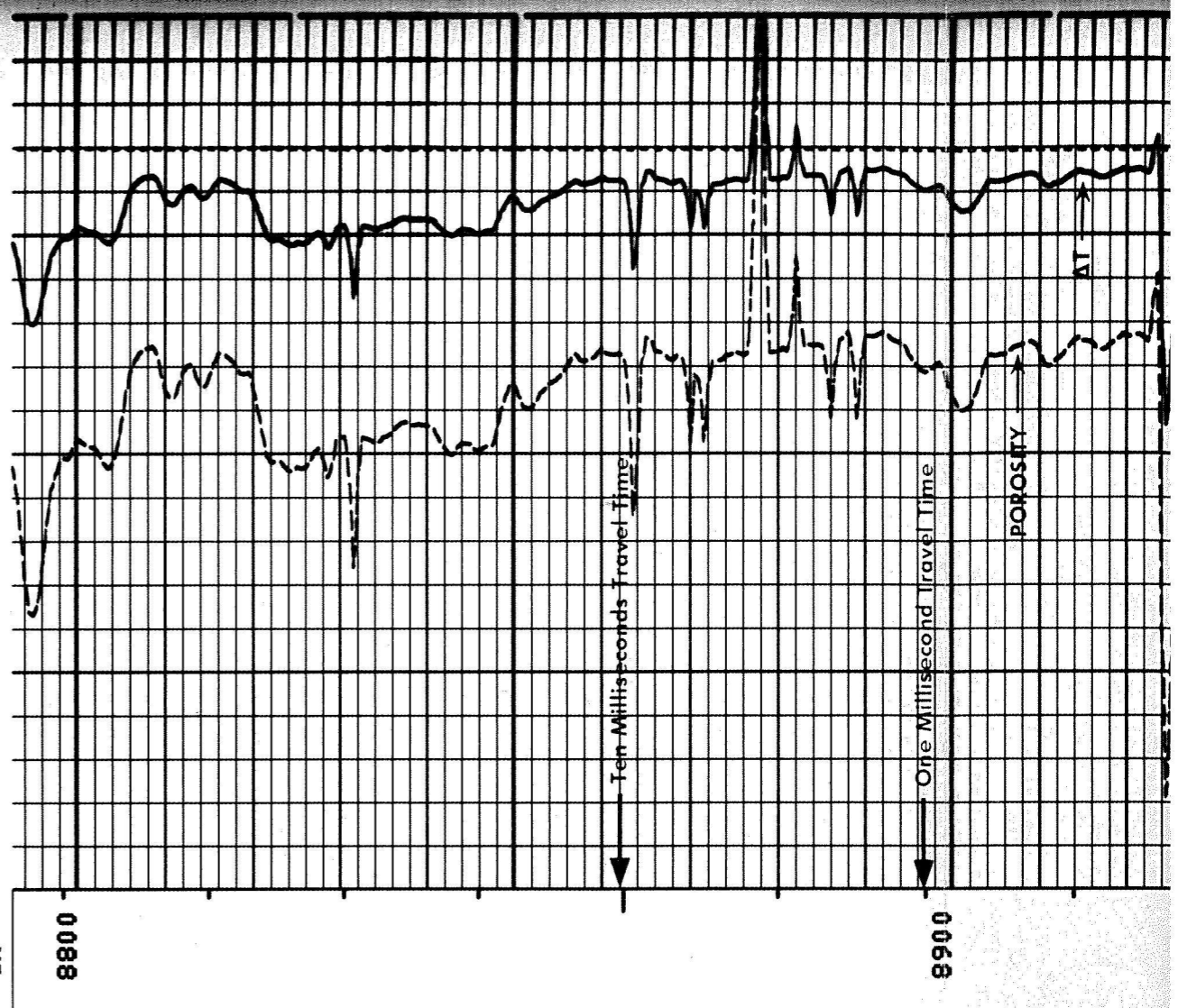
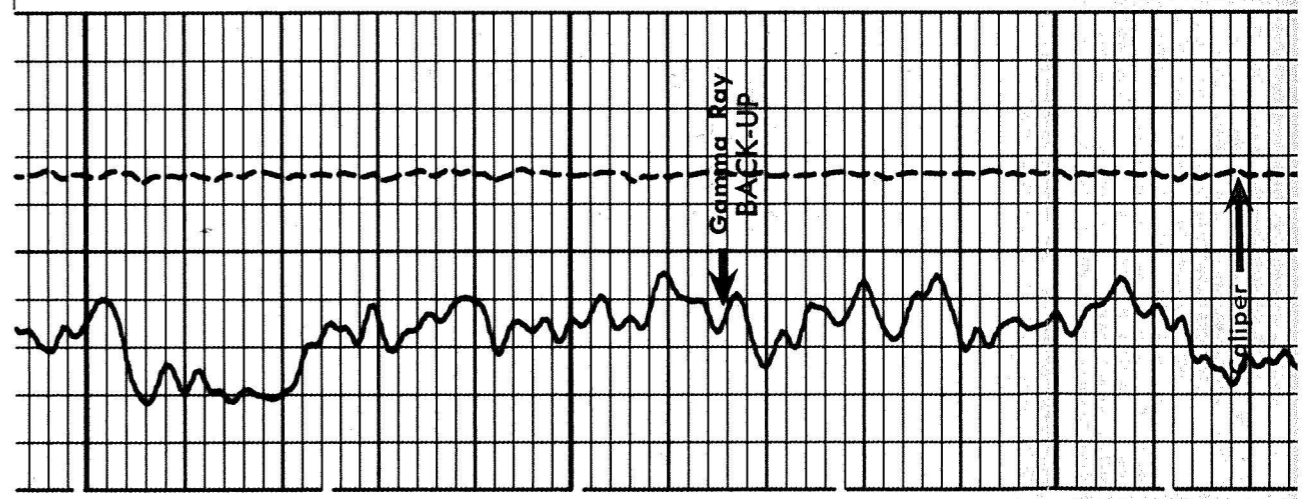


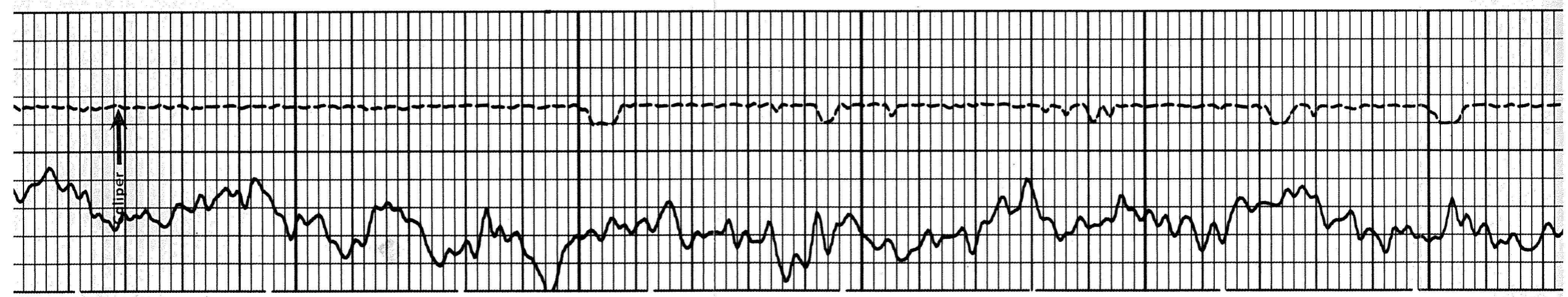
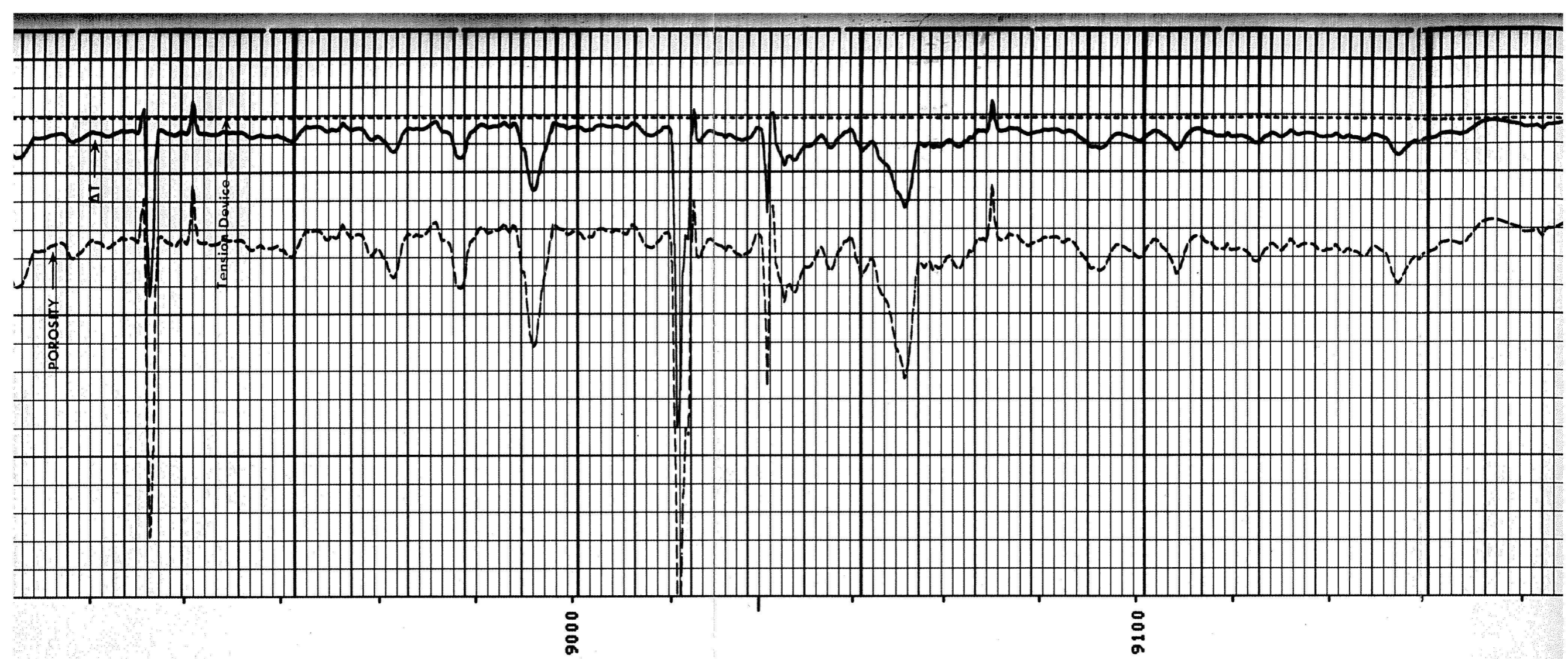
Gamma Ray
 SCALE CHANGE
 CALJIN 2 16.00
 GR (GAPI) 150.0
 Run 3

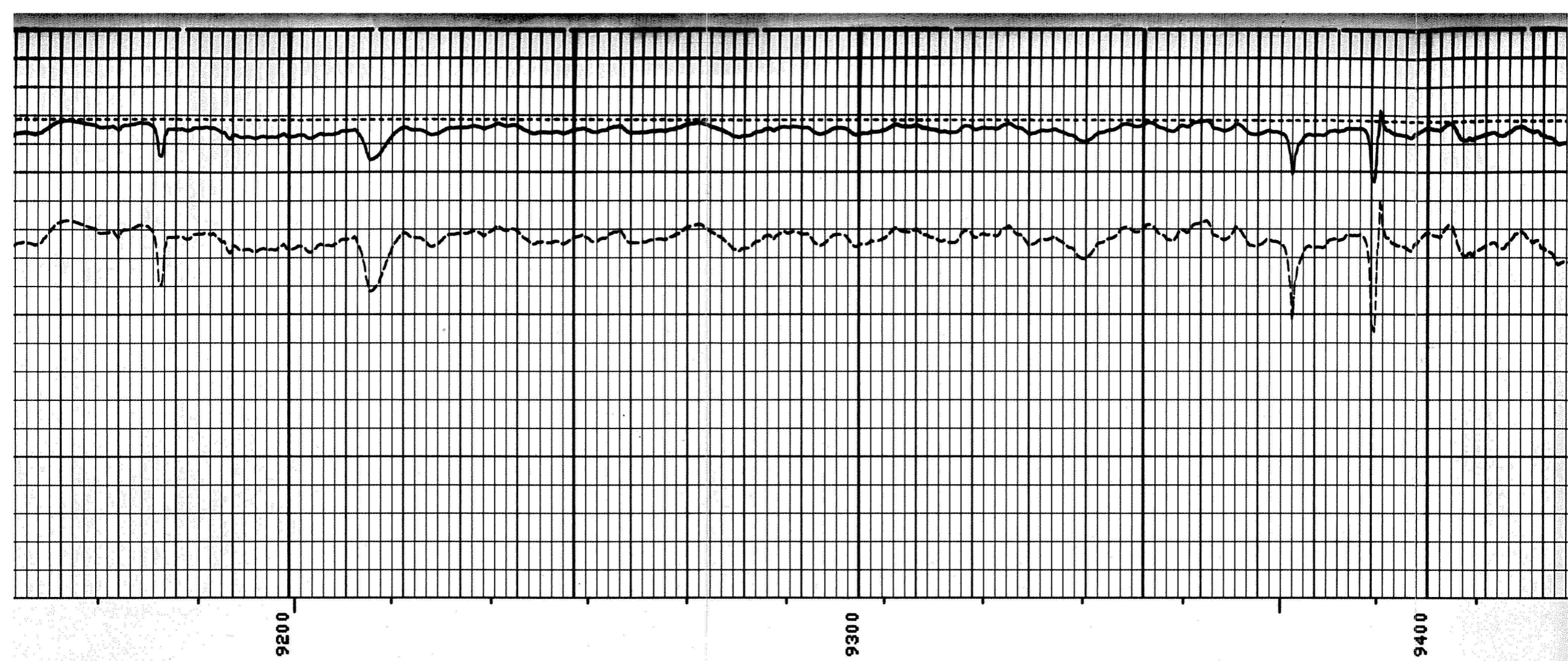
TENS(LB) 0.0
 DT (US/F) 140.0
 DT (US/F) 240.0
 SPHIS 0.3000
 40.00
 140.0
 0.100

LR 1 10 10 10 10

Run 3



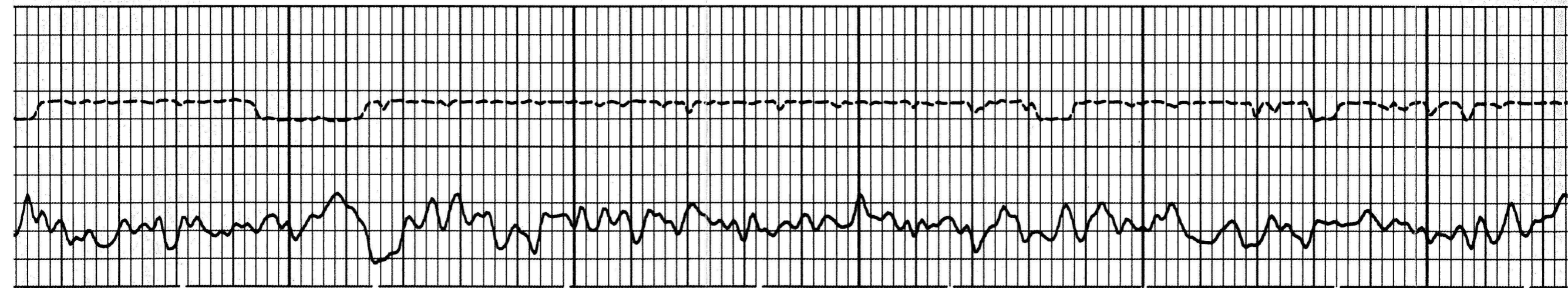




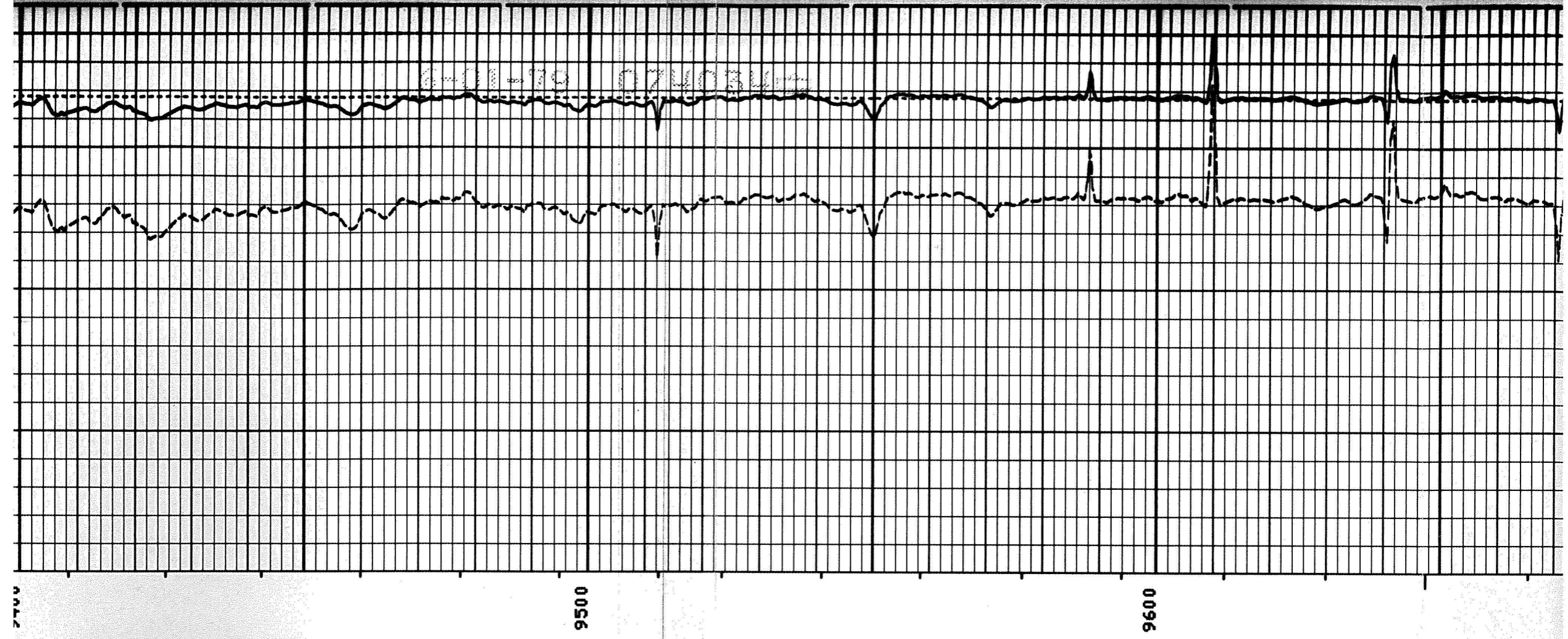
9200

9300

9400

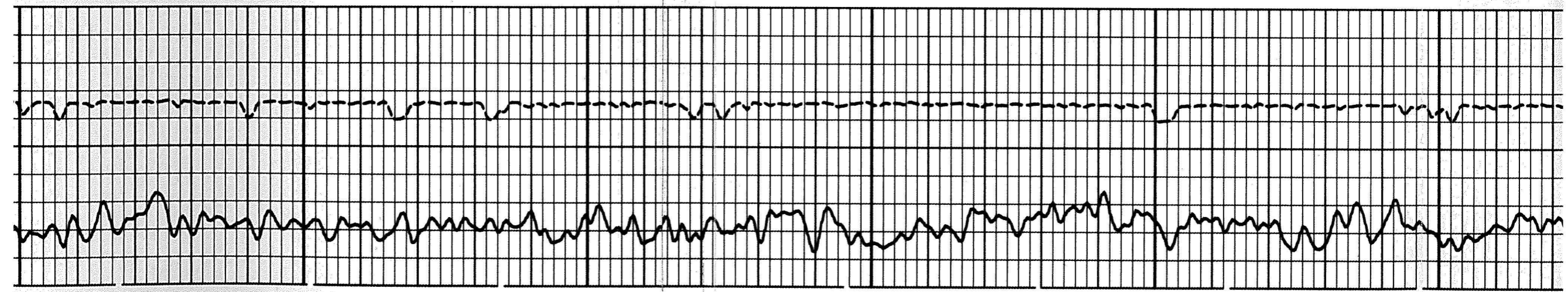


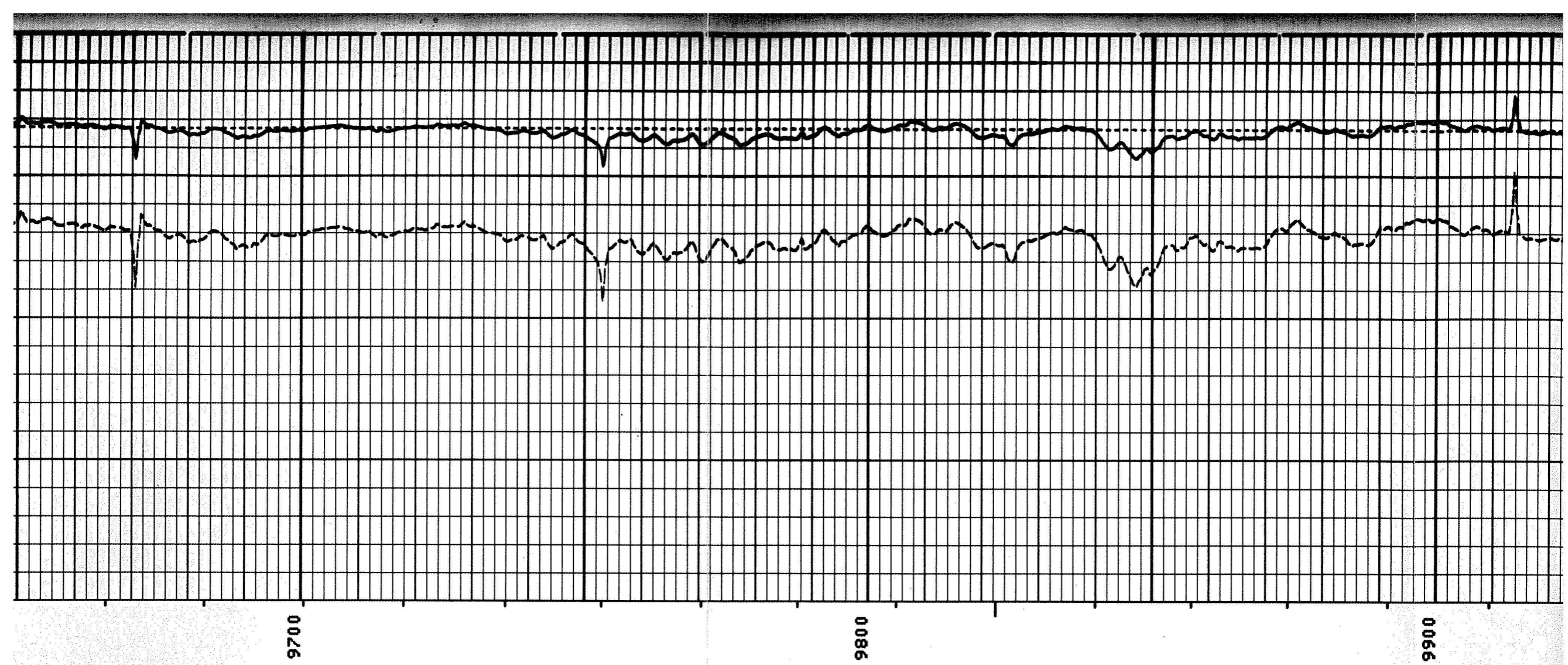
4-11-79 0740314



950

960

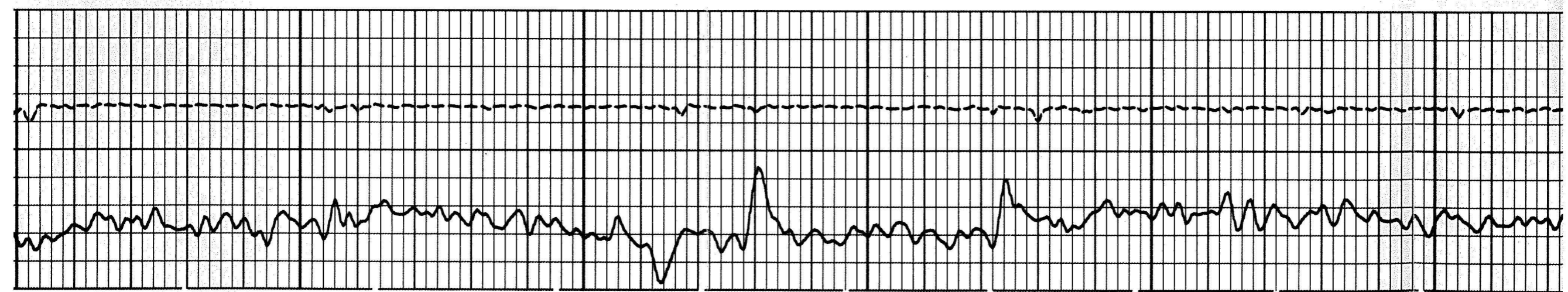


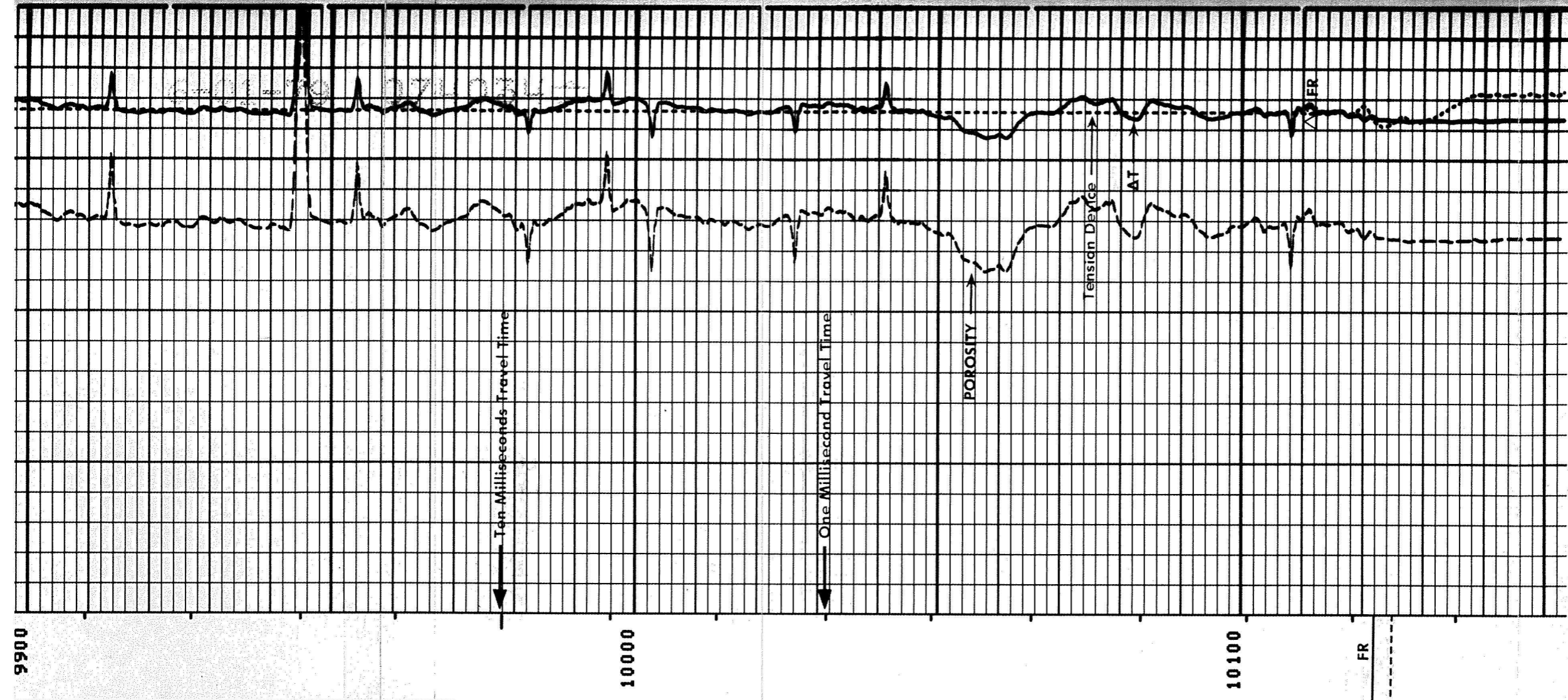


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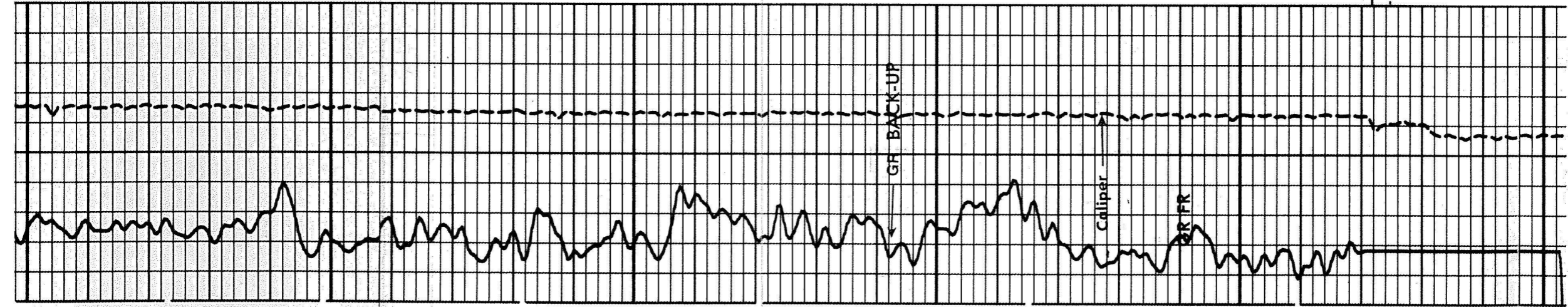
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9900



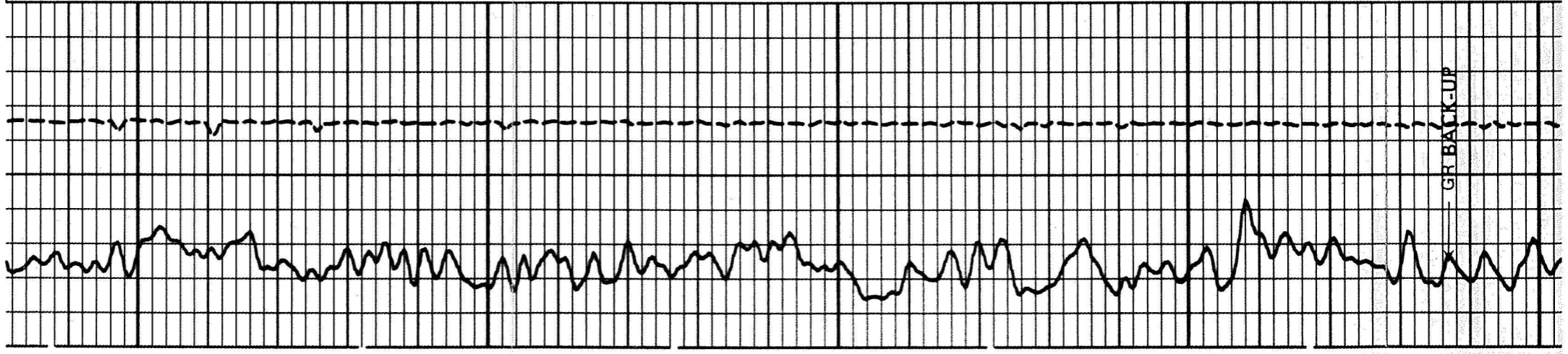
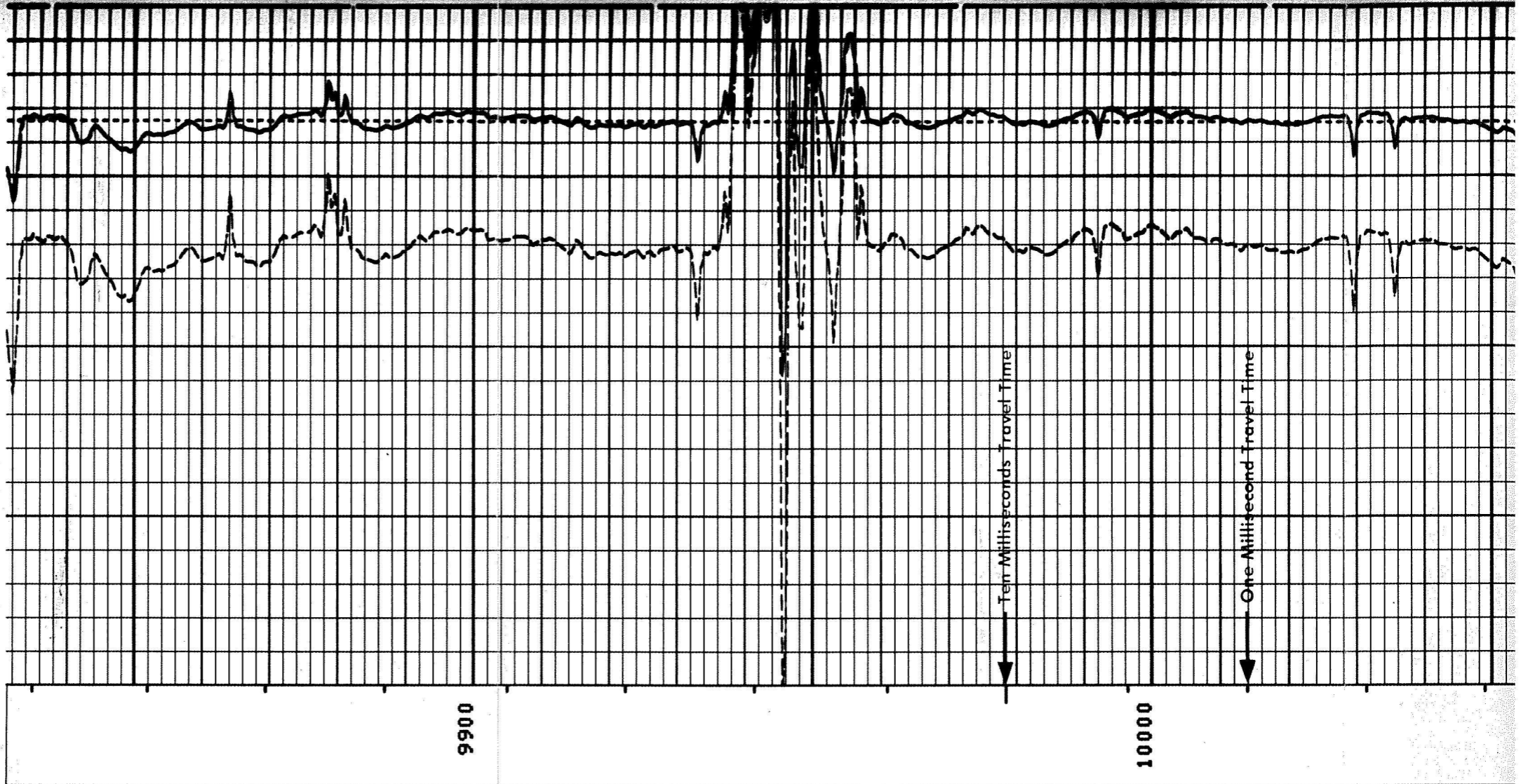


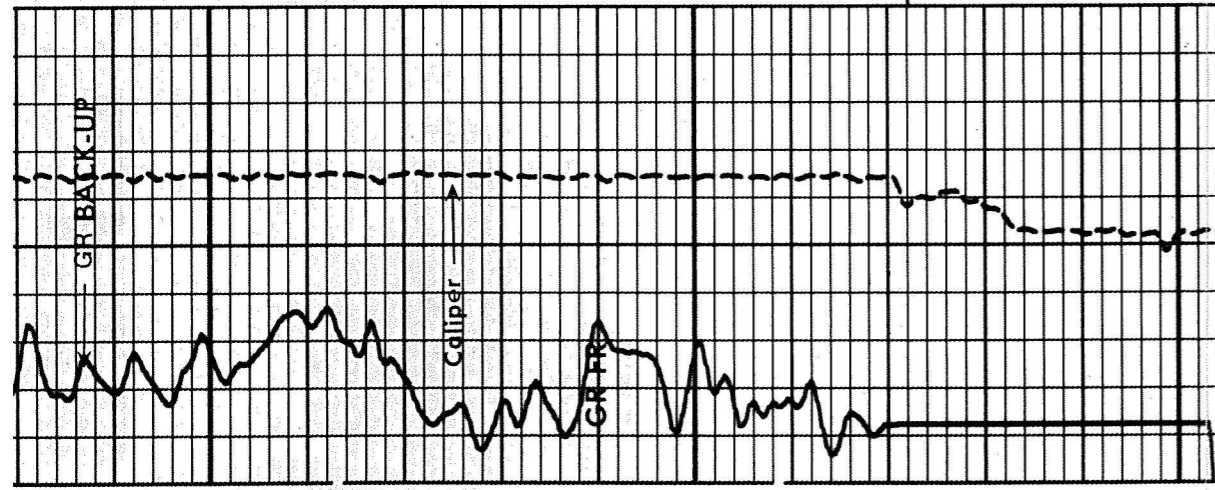
00000000



REPEAT SECTION

00000000 777777 LR



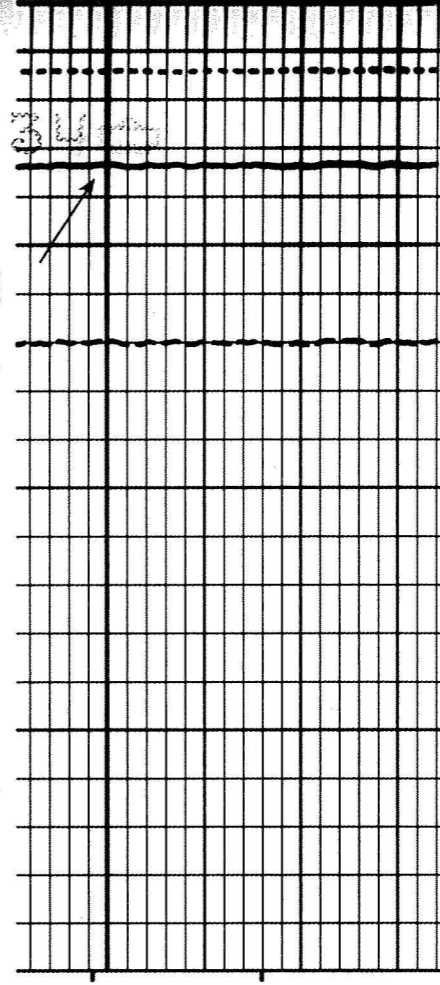
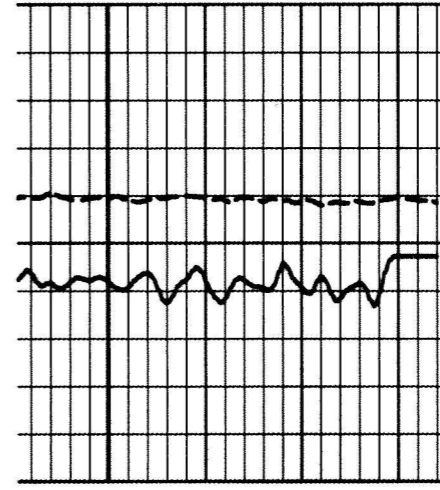


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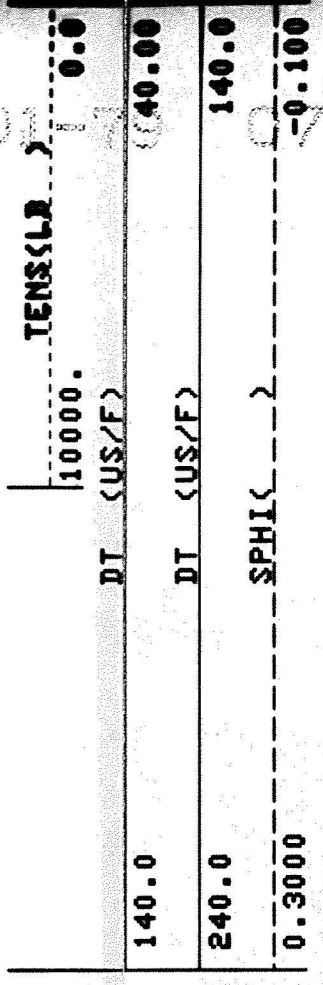
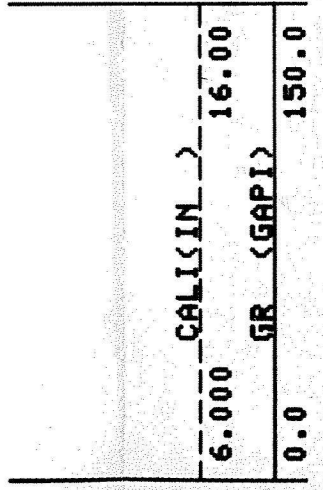
REPEAT SECTION

333333

074034



Casing CHECK 57 MS



6.000
0.0

140.0
240.0
0.3000

6-01

074

CALISIN > 16.00
 GR (GAPI) 150.0

DT (US/F) 140.0
 SPHIC > 2

140.0
 240.0
 0.3000
 -0.100

2
2
2
4
4
4

Run 1 BEFORE SURVEY CALIBRATION SUMMARY

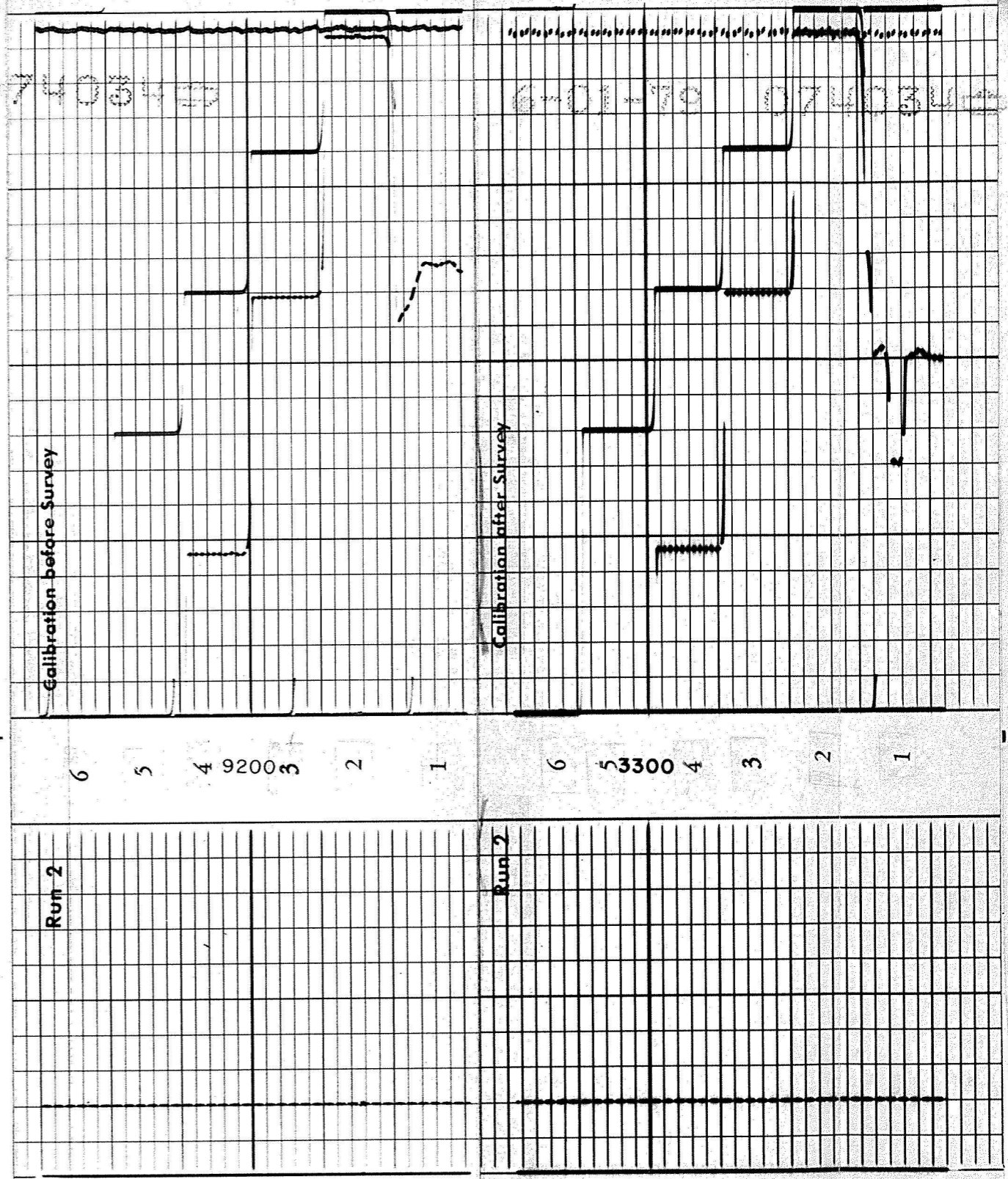
PERFORMED: 79/03/27
 PROGRAM FILE: IS (VERSION 12.4A 78/12/ 8)

SGTE	MEASURED	CALIBRATED	UNITS
	BKGD	164	GAPI
	JIG		
	182		
VCDD	CALIPER CALIBRATION SUMMARY		
	MEASURED	CALIBRATED	UNITS
	SMALL	SMALL	LARGE
	6.6	7.9	11.9
	LARGE		IN
	12.0		

6-01-78

4
4
4
4
4

074034E



6-01-78

074034E

Run 2

Run 2

6
5
4
9200
3
2
1

6
53300
4
3
2
1

10

Run 3 BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 79/05/18
 PROGRAM FILE: IS (VERSION 12.4A 78/12/ 8)

SGTE DETECTOR CALIBRATION SUMMARY

MEASURED	CALIBRATED	UNITS
BKGD 44	164	GAPI
JIG 189		

MCDB CALIPER CALIBRATION SUMMARY

MEASURED	CALIBRATED	UNITS
SMALL 4.2	SMALL 8.0	LARGE
LARGE 8.1	LARGE 12.0	IN

6-01-79 074034

Run 2

Gamma Ray Calibration

6

5

3

1

BOREHOLE COMPENSATED SONIC CALIBRATION CODING

1. MECHANICAL ZERO
2. 40 μ SEC/FT
3. 60 μ SEC/FT
4. 80 μ SEC/FT
5. 100 μ SEC/FT
6. 140 μ SEC FT

GAMMA RAY CALIBRATION CODING

1. MECHANICAL ZERO
2. ELECTRICAL ZERO
3. RECORDER SENSITIVITY
4. MEMORIZER ADJUSTMENT
5. BACKGROUND
6. CALIBRATION

4034

3842

1. MECHANICAL ZERO
2. 40 μ SEC/FT
3. 60 μ SEC/FT
4. 80 μ SEC/FT
5. 100 μ SEC/FT
6. 140 μ SEC FT

GAMMA RAY CALIBRATION CODING

1. MECHANICAL ZERO
2. ELECTRICAL ZERO
3. RECORDER SENSITIVITY
4. MEMORIZER ADJUSTMENT
5. BACKGROUND
6. CALIBRATION