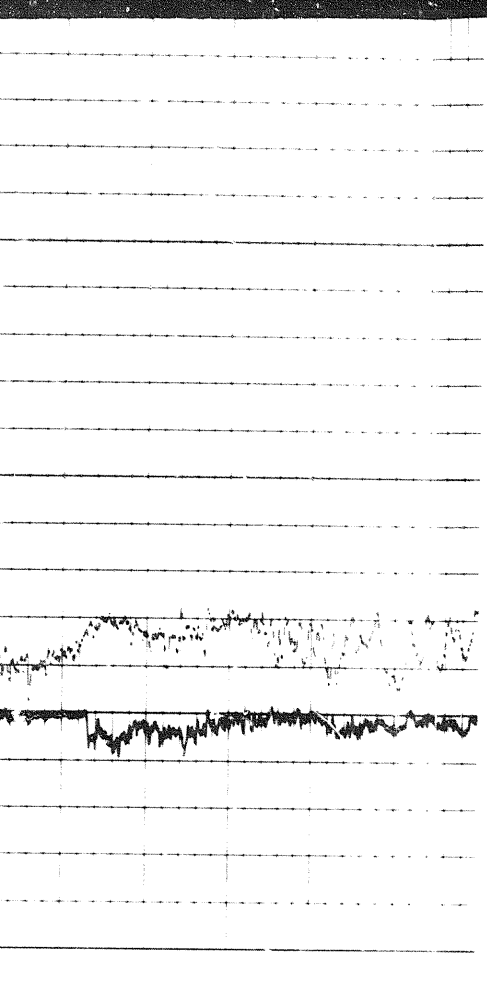

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SCHLUMBERGER

SONIC LOG WITH GAMMA RAY AND CALIPER

SCHLUMBERGER OF CANADA Calgary, Alberta

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

COMPANY THE CALIFORNIA STANDARD COMPANY

WELL SOBC BLACKSTONE
Y.T. D-77

FIELD WILDCAT

PROVINCE YUKON TERRITORY

LOCATION 65 46' 10.77" N
137 1[illegible] 54.78" W

Other Services E[illegible]
DWT; MLC; LL; SDN

Permanent Datum GL Elev. 168[illegible](EST)
Log Measured From KB 16 Ft. Above Perm. Datum

ELEV: KB 1700(EST)
GL 168[illegible](EST)
CBF

Date	27APRIL62	12JULY62	22NOV.62
Run No.	ONE	TWO	THREE
First Reading	196[illegible]	6057	1317[illegible]
Last Reading	199	1972	[illegible]203
Feet Measured	176[illegible]	4085	7872
Depth Reached	1968	6065	13186
Bottom Driller	1980	6065	13217
Csg. SOC	199	1972	[illegible]303
Csg. Driller	200	1971	[illegible]303
Mud Nature	GEL CHEM.	GEL CHEM.	LIME
Dens. / Visc.	9.6 / 103	9.8 / [illegible]	9.2 / 1.3
Mud pH	9.[illegible]	12.[illegible]	13.0
" Water Loss	[illegible].6	5.9	10.0
" Res.	RMKS " F	0.8 [illegible]7[illegible] F	1.90 [illegible]
" " " BHT	1.8 " 82 F	0.5 122 F	0.45 210
" Rmf	RMKS " F	0.6 " 76 F	1.22 68
" Rmc	RMKS " F	1.1 " 76 F	2.01 68
Bit Size	12 1/4"	RMKS	8 5/8"
Spcr: 1	199 TO 1968	6057 TO 1972	3000 TO 10000
1	To	To	11200 To 11500
1	To	To	12400 To 13160
1	To	4300 To 3600	5303 To 1317
Opr. Rig Time	2.5 HRS		10 HRS
Truck No.	OSU-72 - DC	OSU-72 - DC	OSU-72 - DC
Recorded By	KELLY	PRATHER	GRAY
Witness	MALONANY	CHANT	CHANT

...NIC LOG
...RAY AND CALIPER
CANADA Calgary, Alberta

...NDARD COMPANY

Other Services: ES;SRL; DWT;MLC;LL;CDM

ELEV: KB 1700(EST) GL 1684(EST)

REMARKS — BHT 210 F Measured 24 Hours After Circulation

RUN #3

Caliper No.
Cartridge No. VLC-C-317
Panel No. VLP-B-178
Sonde No. VLS-G-362
Centralizer Type SPRING GUIDES

GAMMA RAY CALIBRATION:

Background CPS.	Test Source CPS.	Galv. Increase Divisions	Panel Sens. Tap for Cal.
70	460	8.25	500

REMARKS — BHT 122 F Measured ____ Hours After Circulation

RUN #2

Caliper No
Cartridge No. B- 87
Panel No. B- 86
Sonde No. G-198
Centralizer Type SPRING GUIDE WITH CALIPER

NOTE: SONIC RUN AT HIGH BIAS INTERVAL 4400 - 3600

GAMMA RAY CALIBRATION:

Background CPS.	Test Source CPS.	Galv. Increase Divisions	Panel Sens. Tap for Cal.
40	400	82.5	500

REMARKS — BHT 82 F Measured ____ Hours After Circulation

RUN #1

Caliper No.
Cartridge No. B- 87
Panel No.
Sonde No. G-198
Centralizer Type 2 SPRING GUIDES WITH CALIPER

MUD SAMPLES:
11.30 AM RM1 2.00 @ 74 F - RMF1 2.67 @ 56 F - RMC 2.52 @ 58 F
11.45 AM RM2 2.04 @ 74 F - RMF2 2.60 @ 58 F
12.00 AM RM3 2.04 @ 74 F - RMF3 1.95 @ 68 F

GAMMA RAY CALIBRATION:

Background CPS.	Test Source CPS.	Galv. Increase Divisions	Panel Sens. Tap for Cal.
25	420	5.5	500

GAMMA RAY API UNITS	DEPTHS	SONIC

INTERVAL CSG to T.D.
Sens. 400 T.C. 2
Logging Speed ____ ft./min.
ZERO 0 div. to left

0 — 160
160 — 320

Spacing 3'
Pickup span 1'

INTERVAL TRANSIT TIME
microseconds per foot
← Increases

140 — 90 — 40
80 — 60 — 40

INTERVAL ____ to ____
Sens. ____ T.C. ____
Logging Speed ____ ft./min.
ZERO ____ div. to left

Logging Speed _____ ft./min
ZERO 0 div. to left

0 160
160 320

INTERVAL _____ to _____
Sens. _____ T.C. _____
Logging Speed _____ ft./min.
ZERO _____ div. to left

RUN #1

Spacing 3'

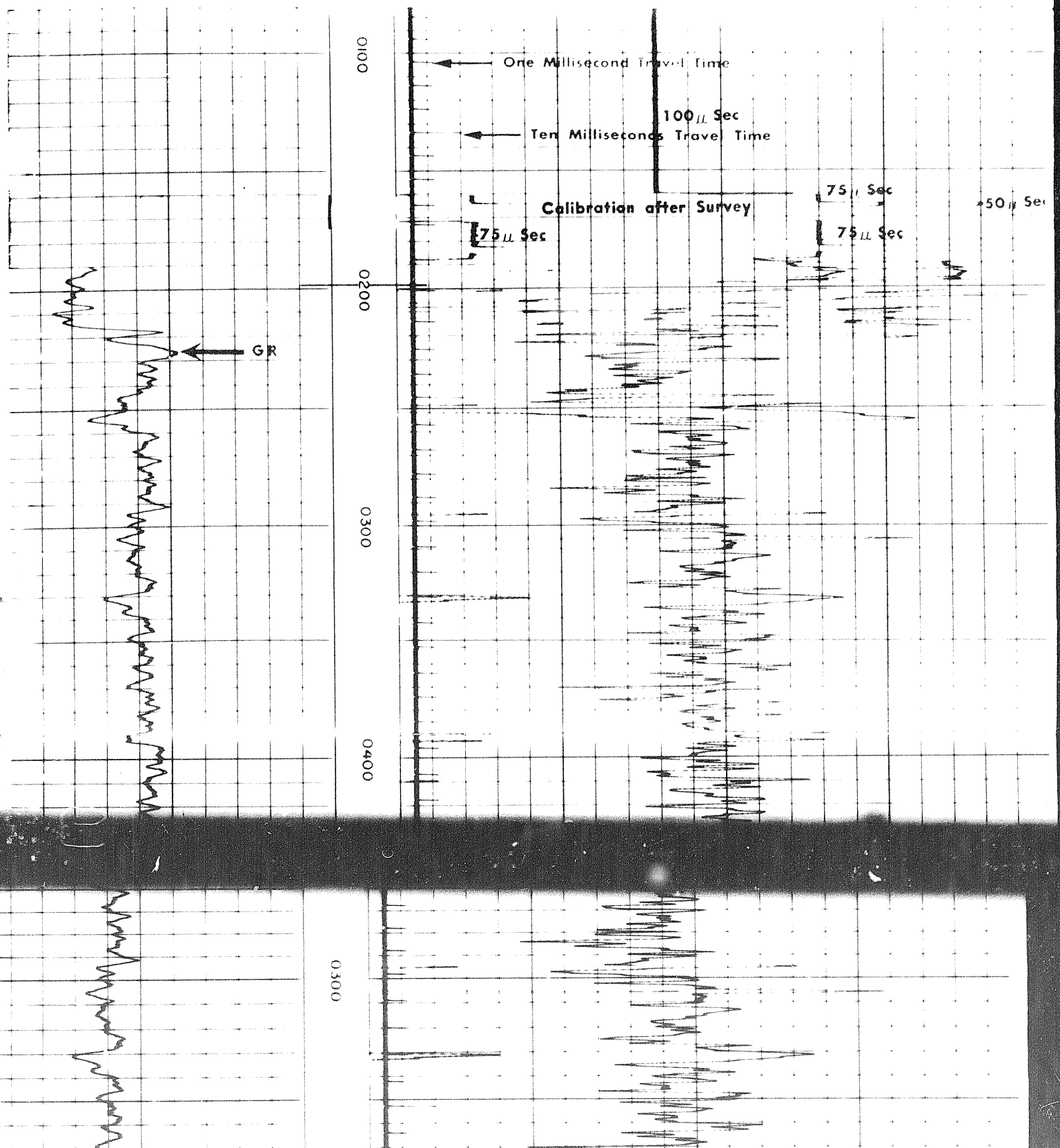
R

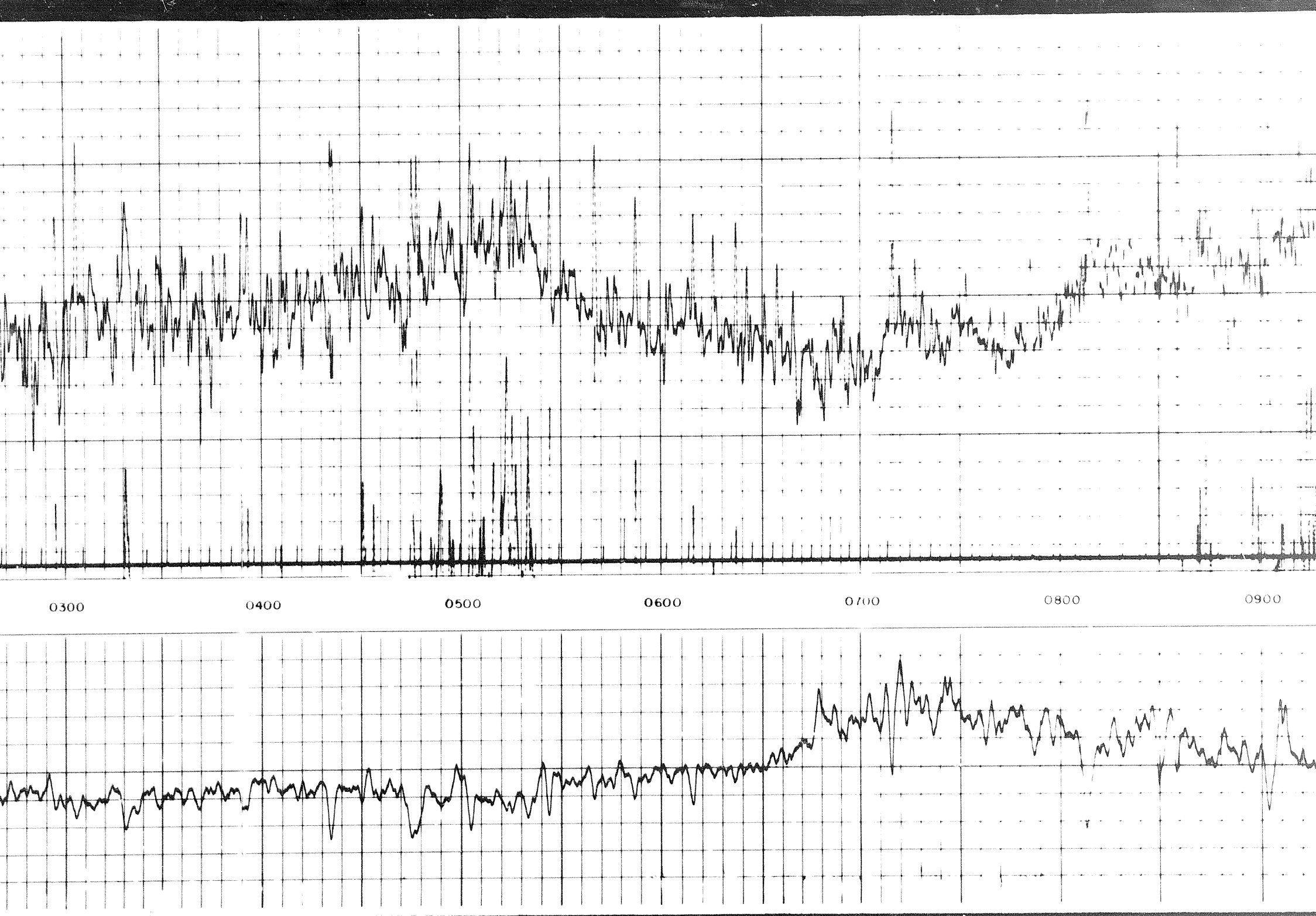
R

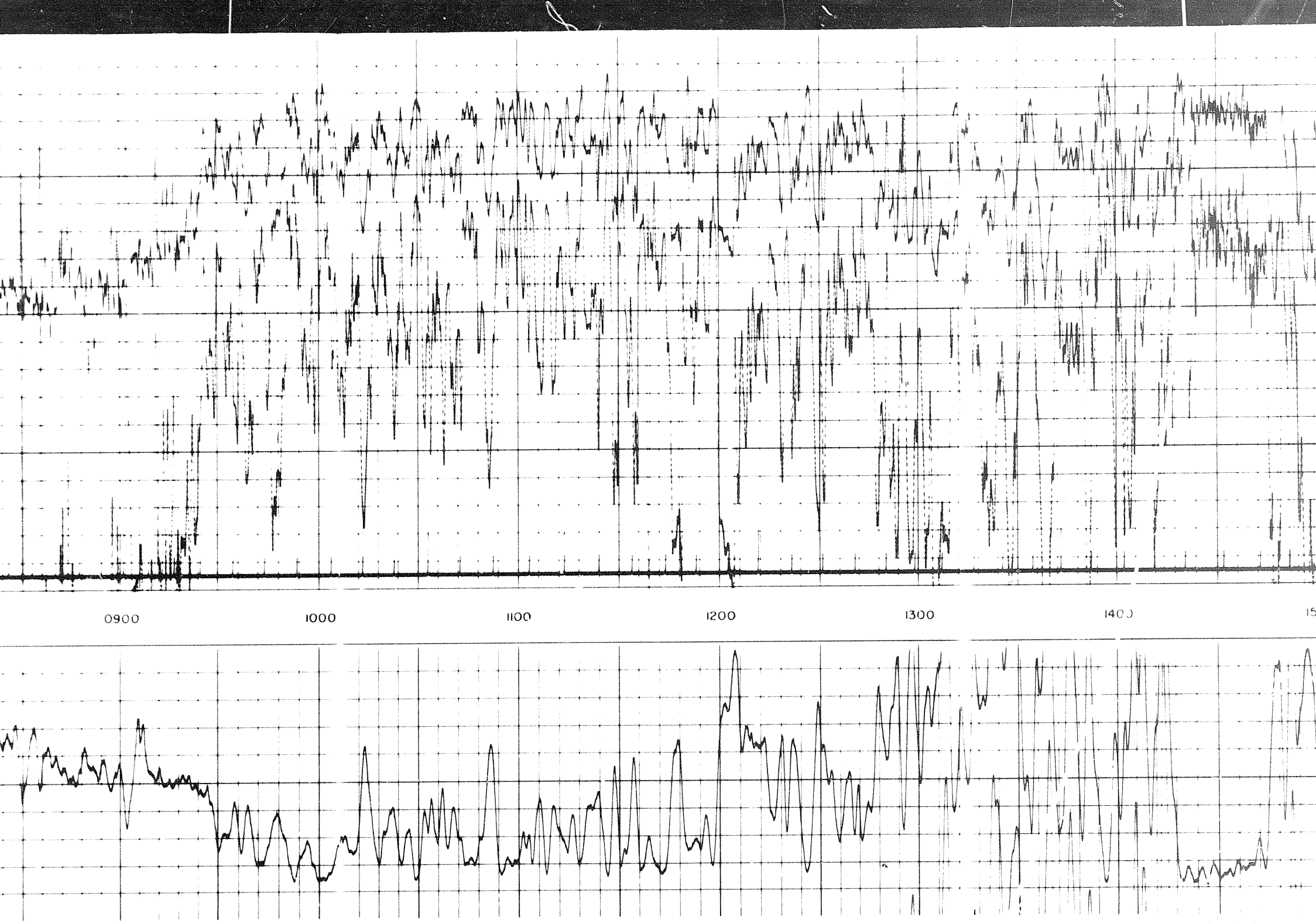
Pickup Spac 1'

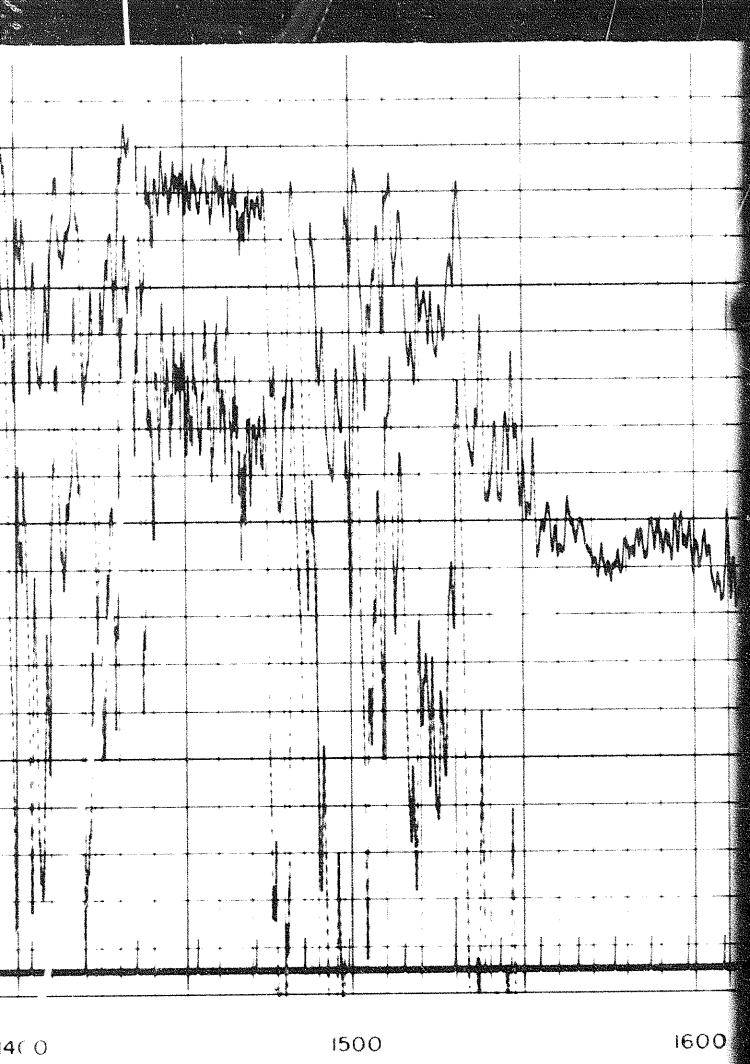
INTERVAL TRANSIT TIME
microseconds per foot
← Increases

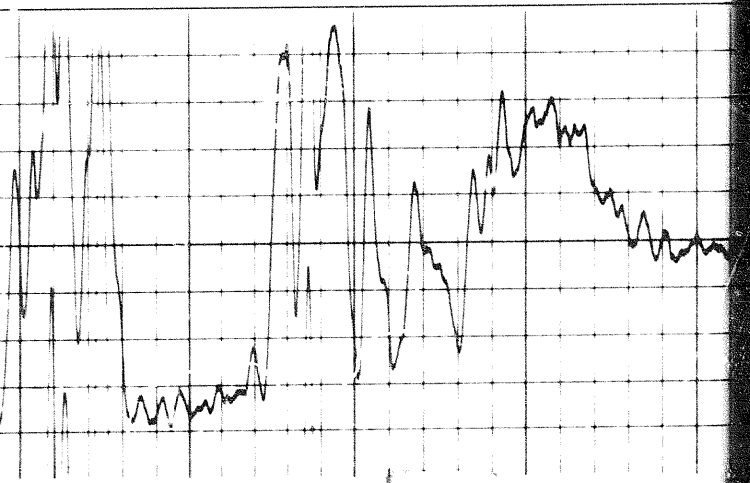
140 190 -0
80 160 40

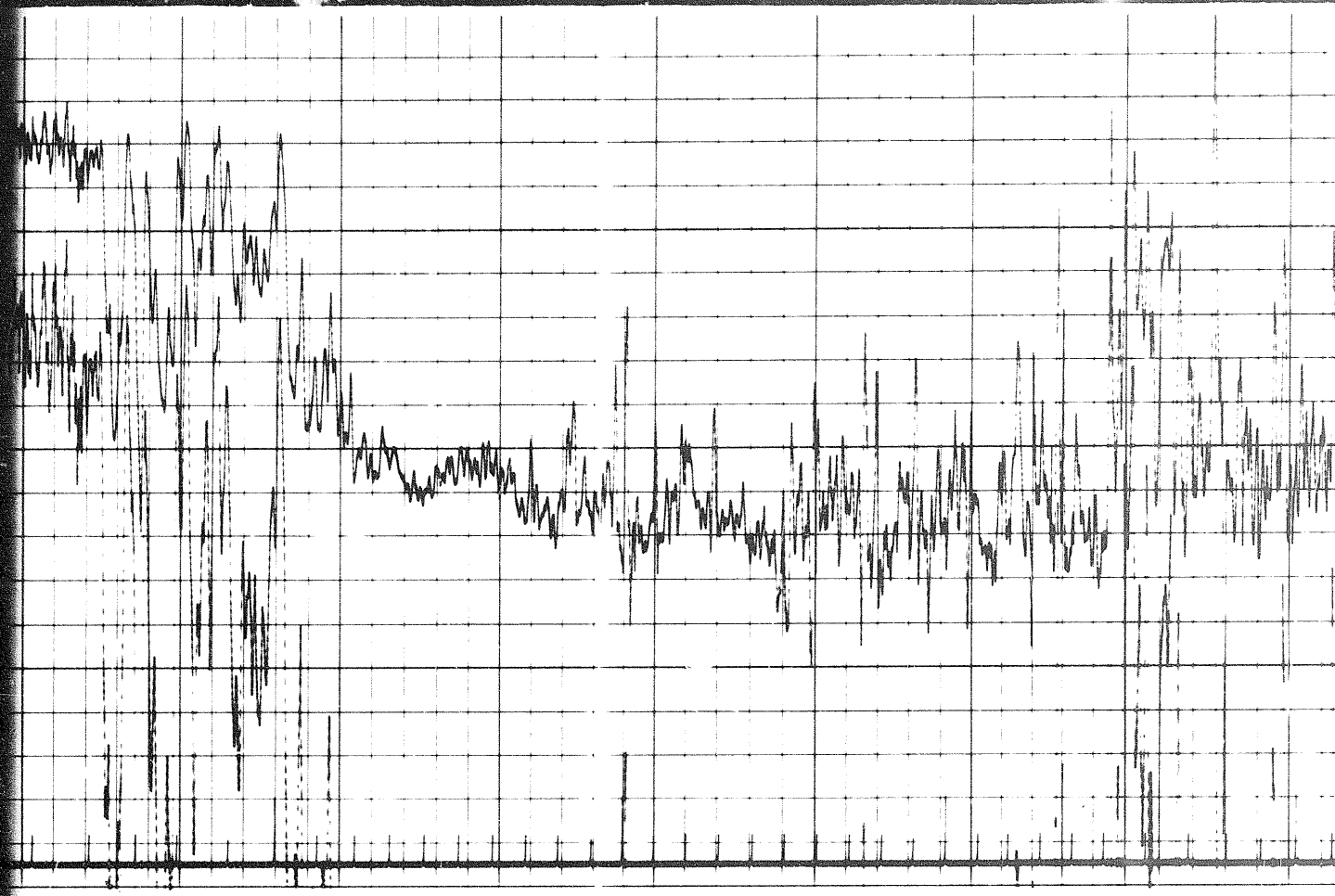


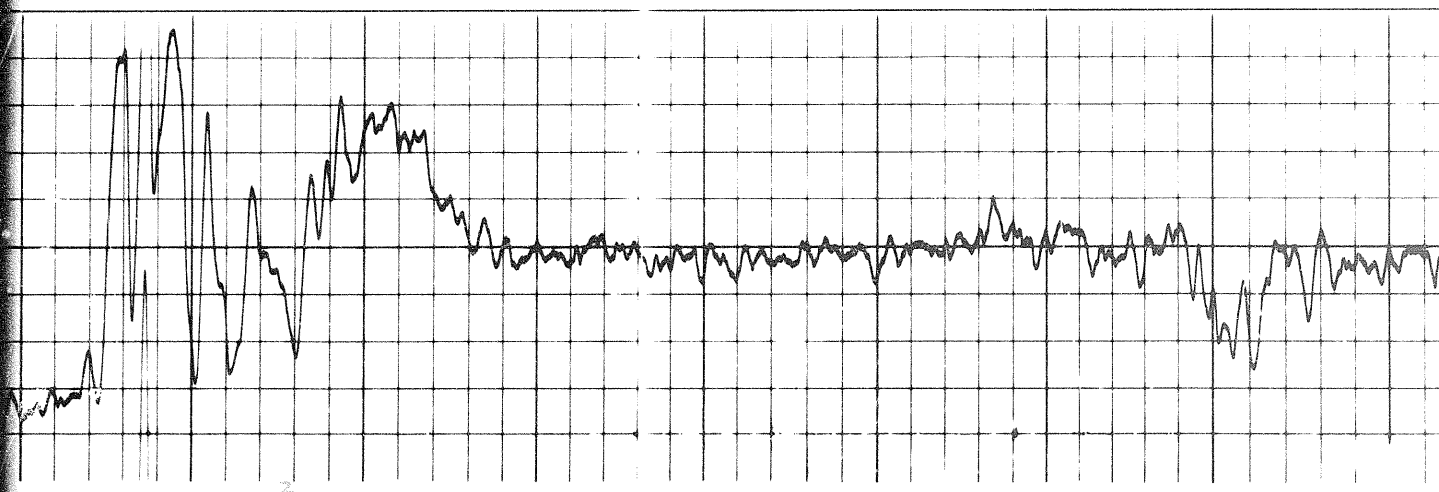

0300
0400
0500
0600
0700
0800
0900


0900
1000
1100
1200
1300
1400









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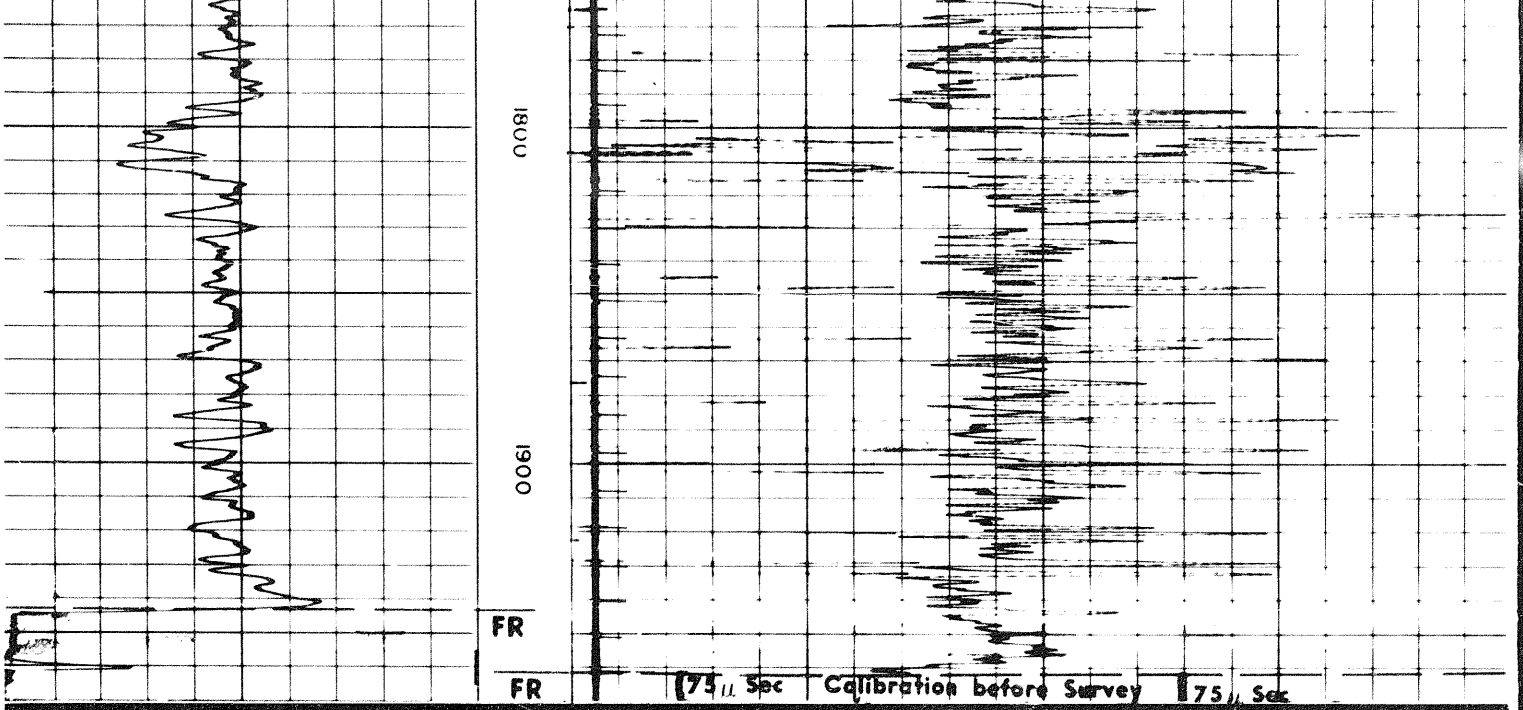


GAMMA RAY

API UNITS

DEPTHS

SONIC

INTERVAL 1972 to 6057

Sens. 400 T.C. 2

Logging Speed 30 ft./min.

ZERO 0 div. to left

0 160

160 320

T

R

R

Spacing 3'

Pickup Span 1'

INTERVAL TRANSIT TIME

microseconds per foot

← Increases

140 90 40

80 160 40

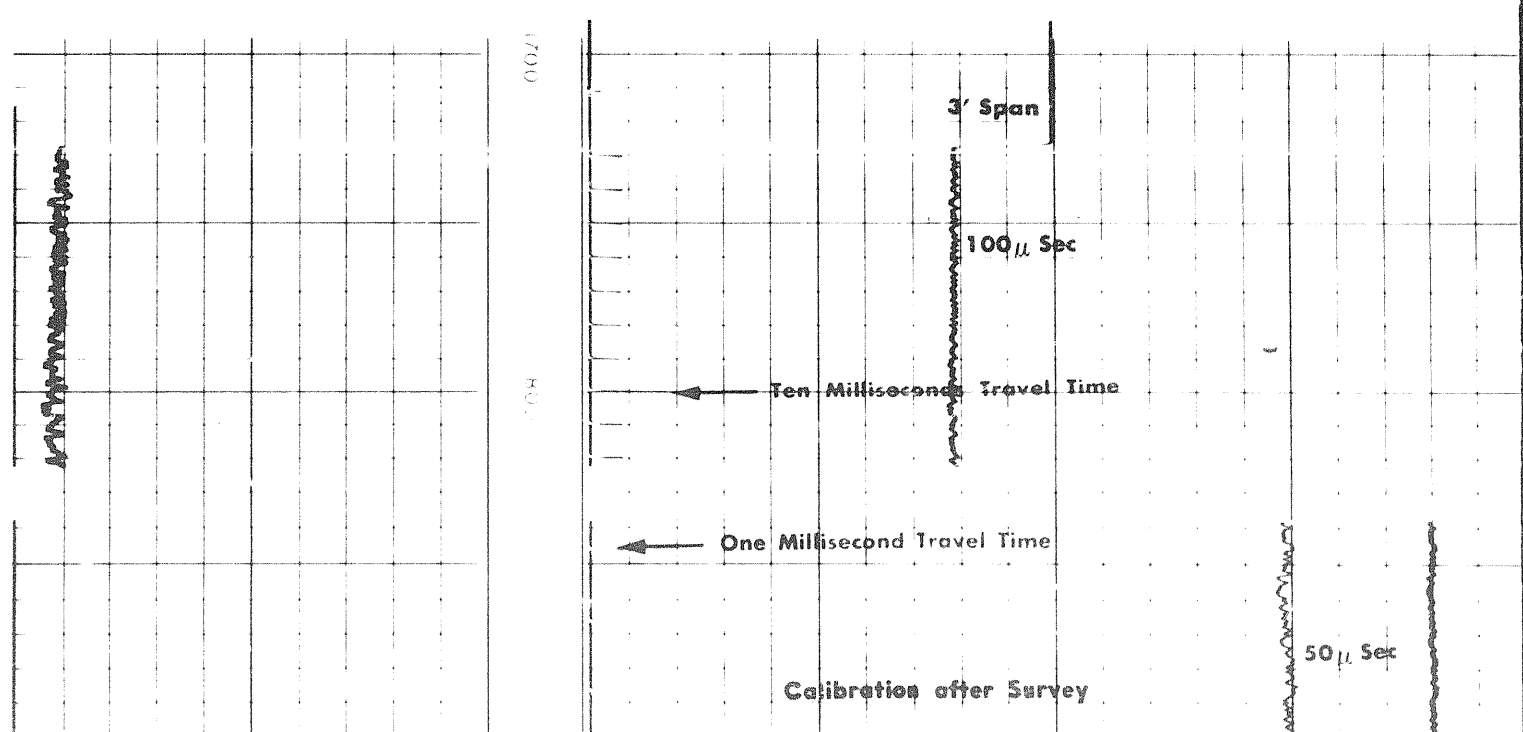
INTERVAL _____ to _____

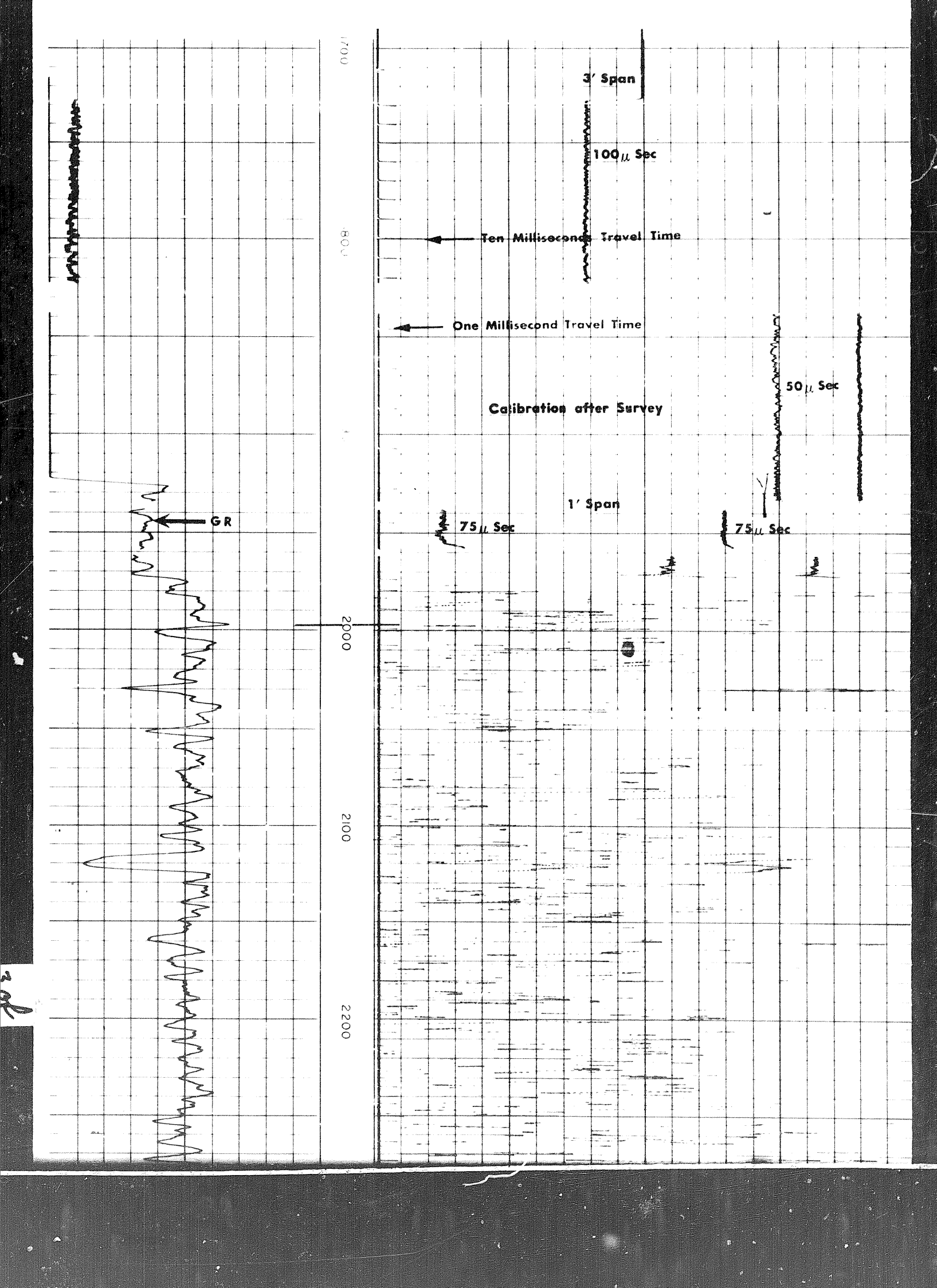
Sens. _____ T.C. _____

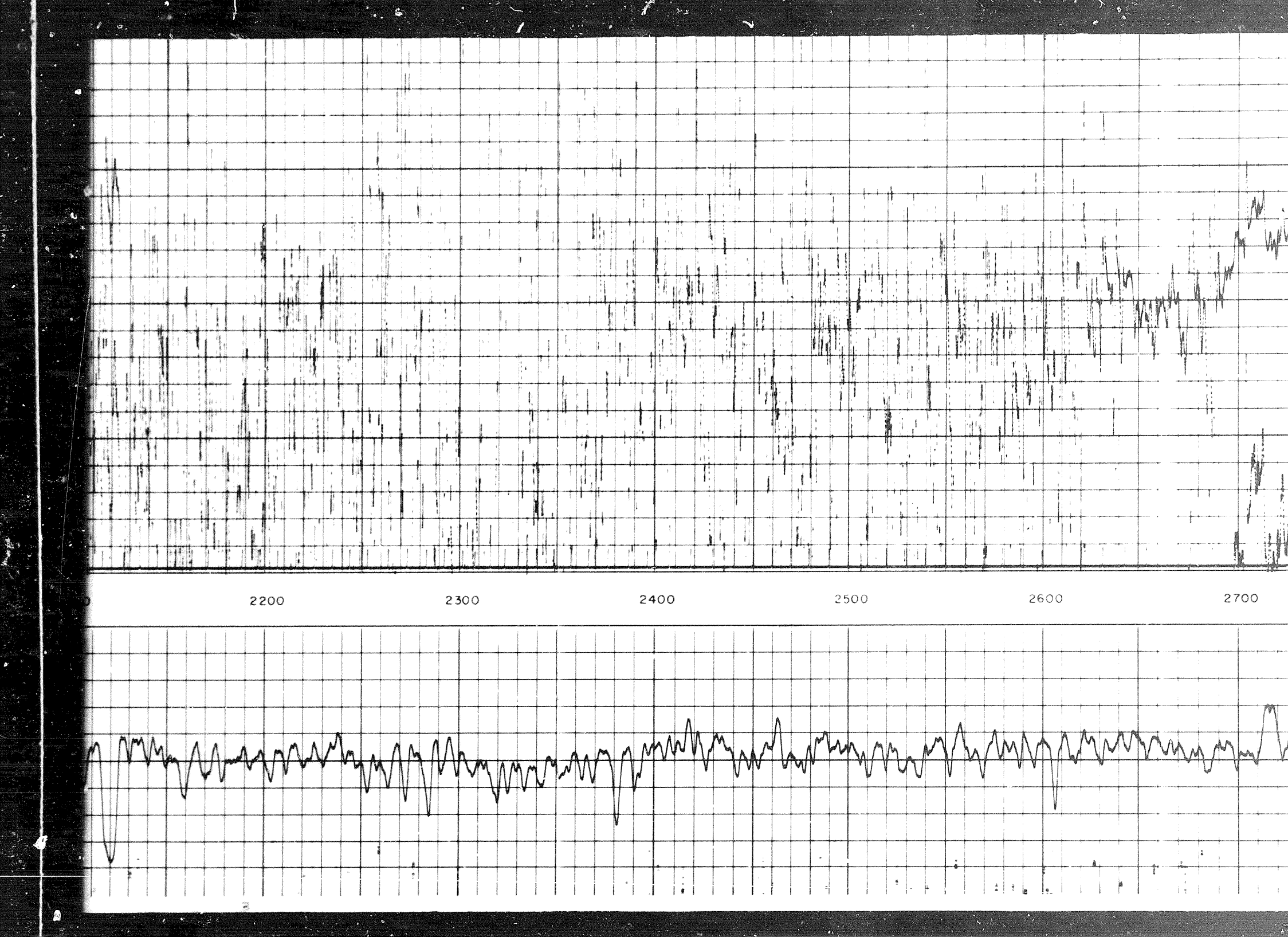
Logging Speed _____ ft./min.

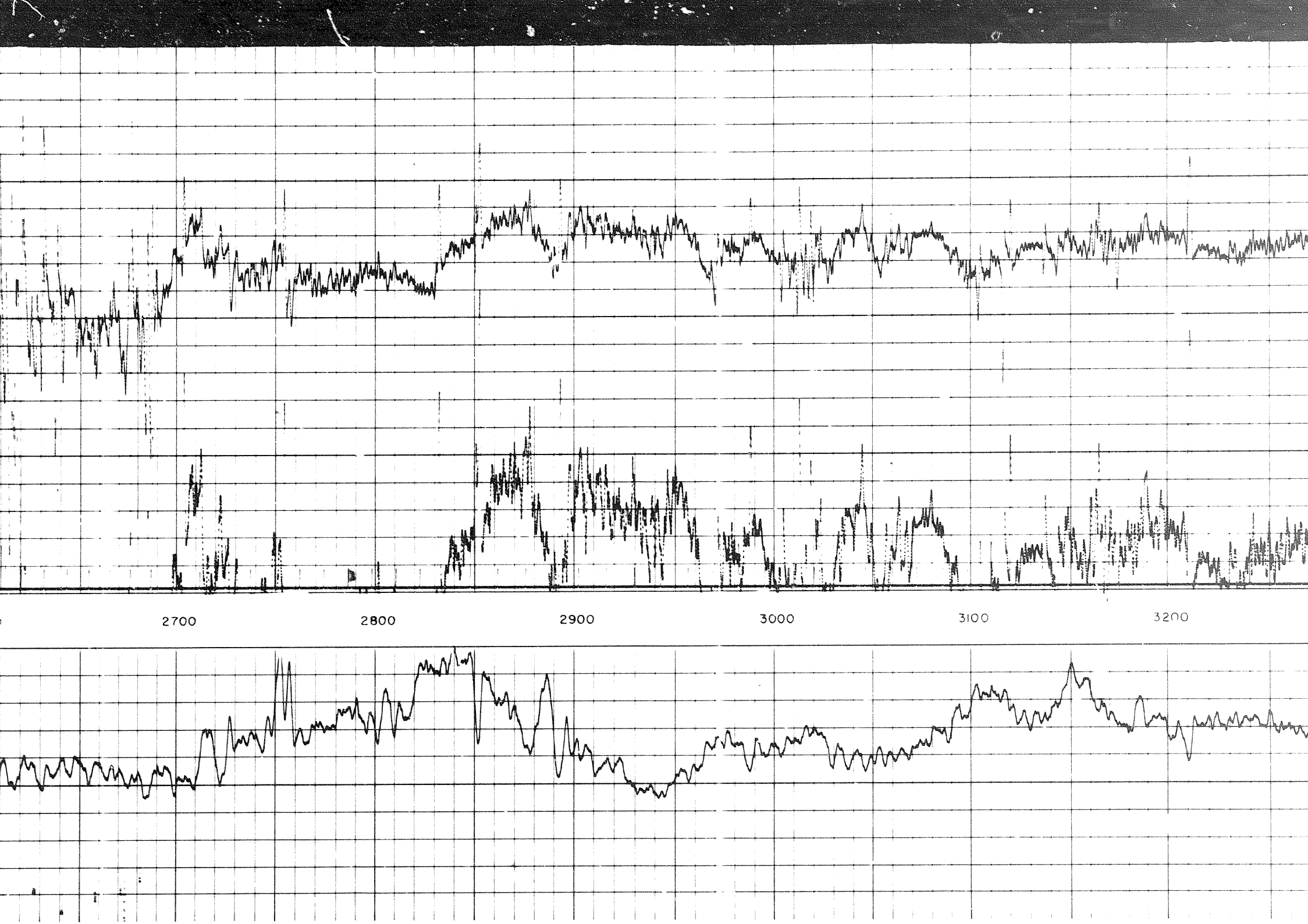
ZERO _____ div. to left

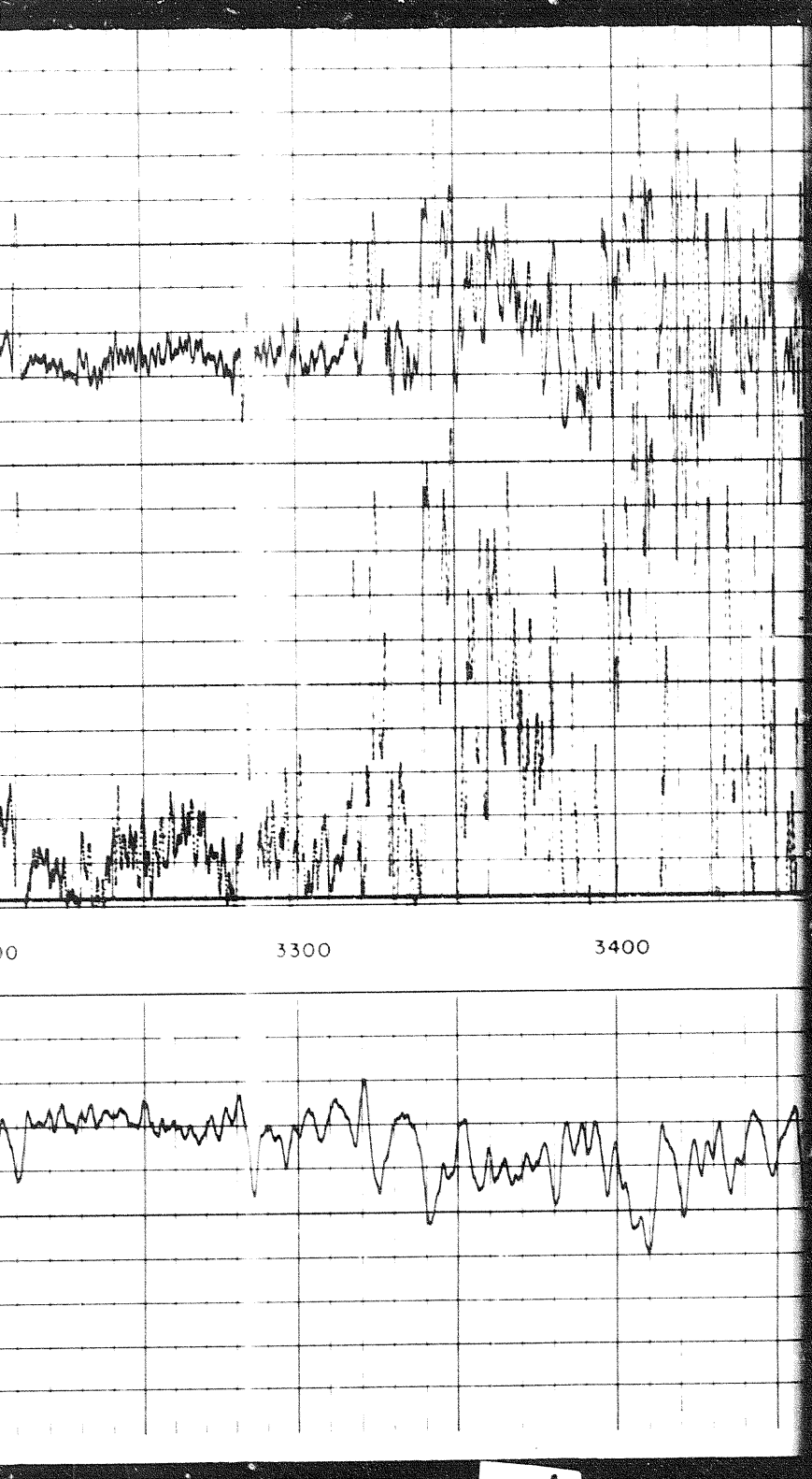
RUN #2

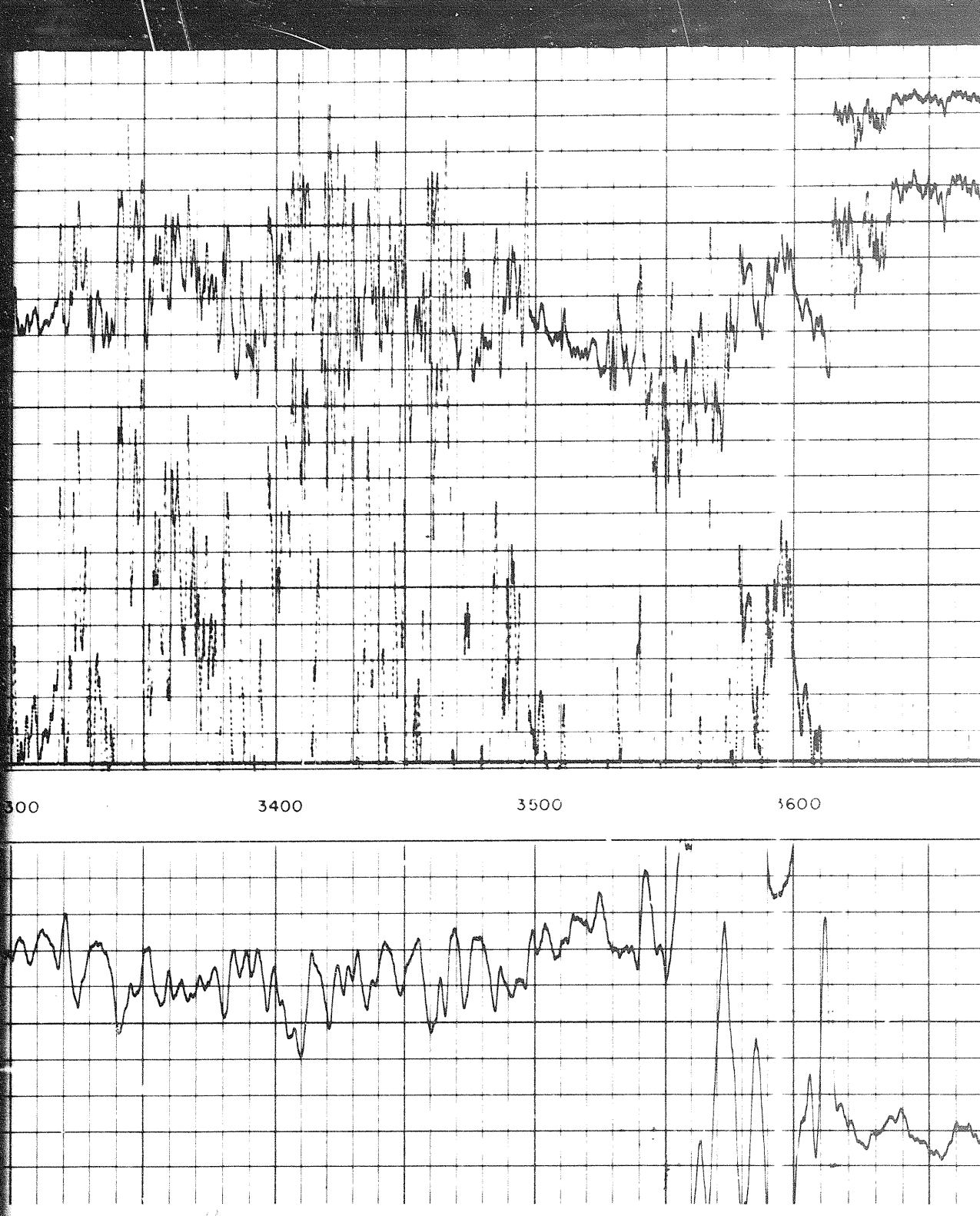



3' Span
100 μ Sec
Ten Millisecond Travel Time
One Millisecond Travel Time
50 μ Sec
Calibration after Survey
1' Span
GR
75 μ Sec
75 μ Sec
1700
1800
2000
2100
2200


2200
2300
2400
2500
2600
2700


2700
2800
2900
3000
3100
3200





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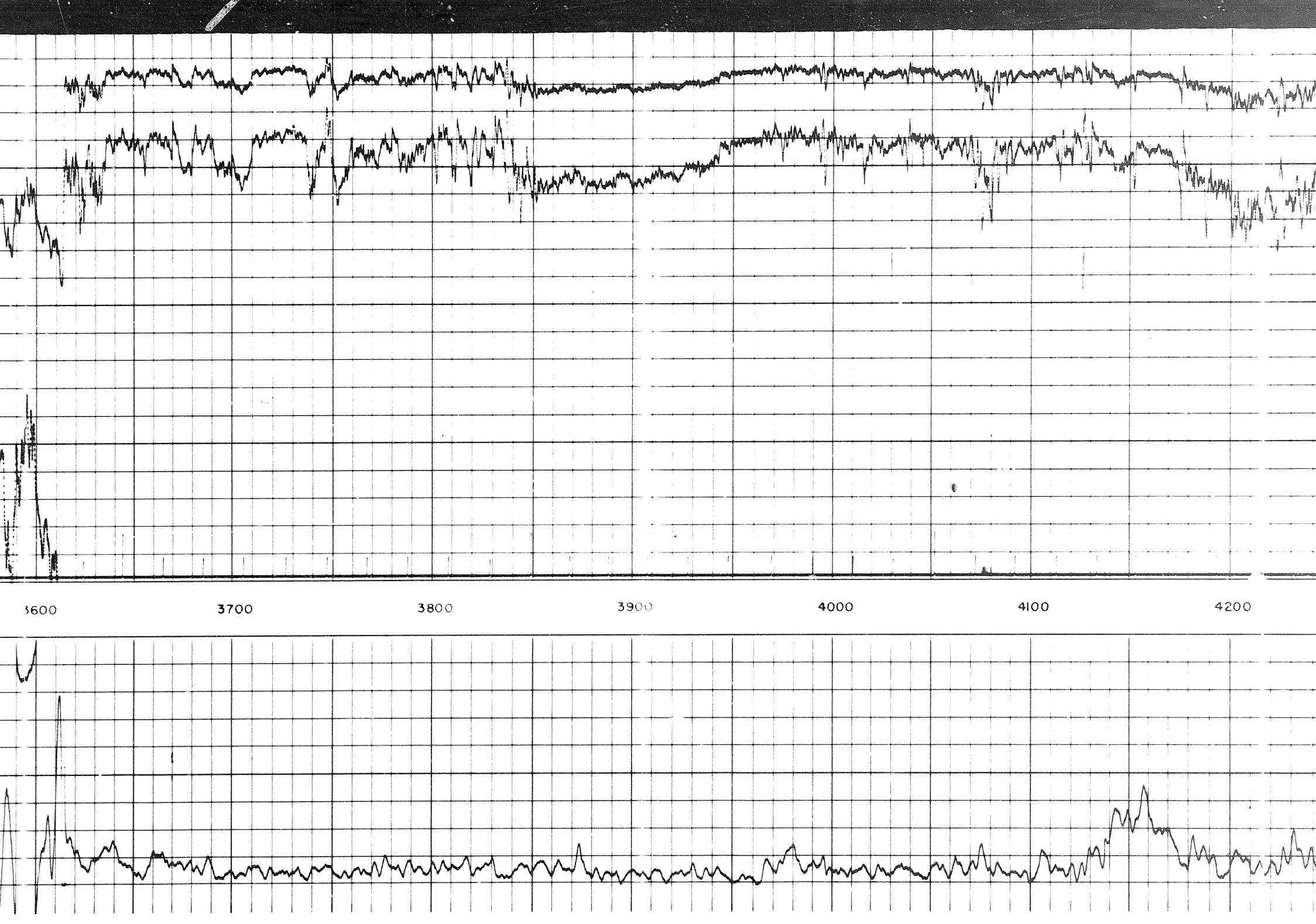
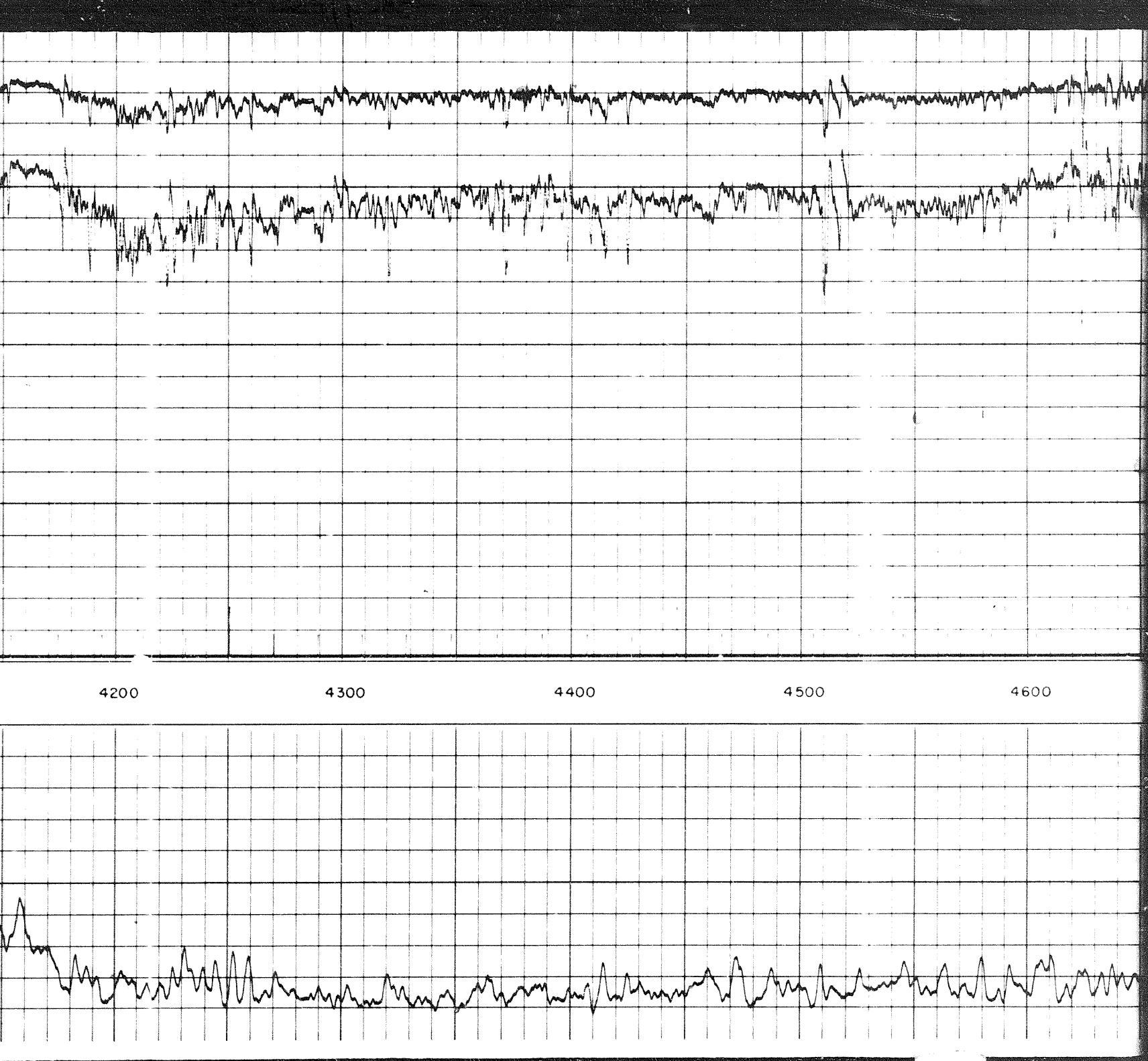
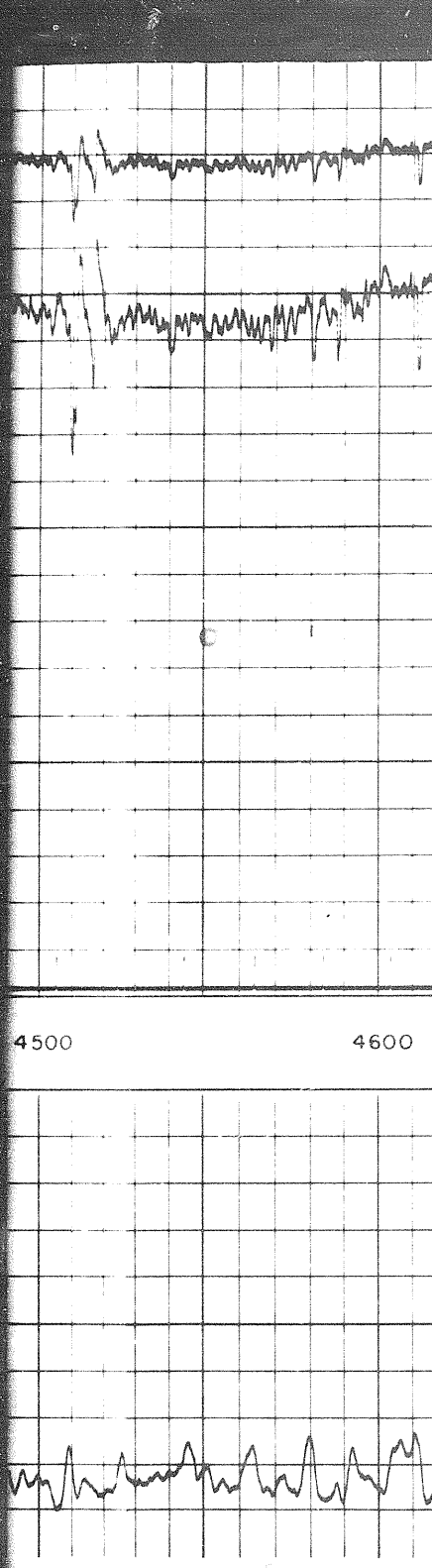
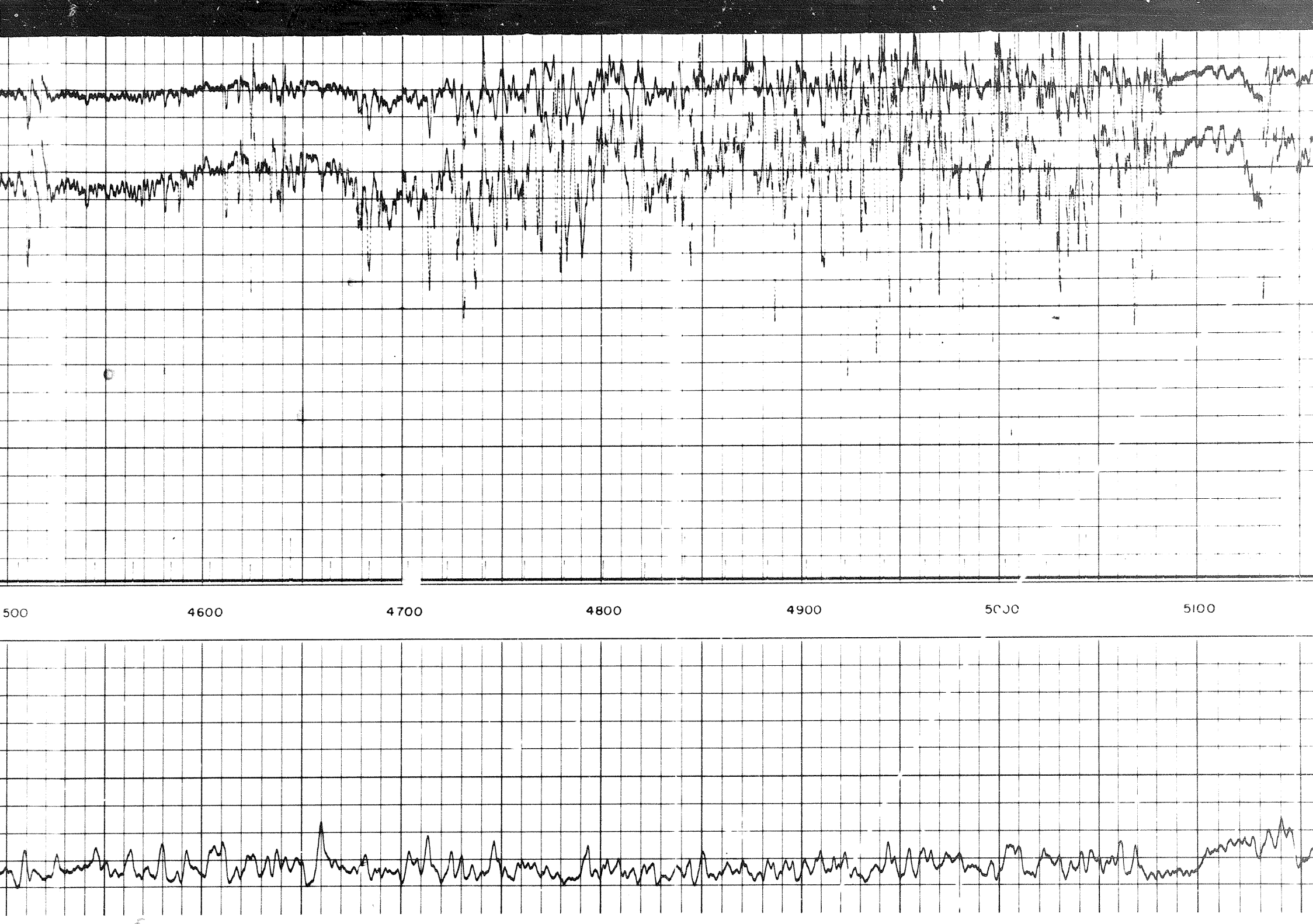
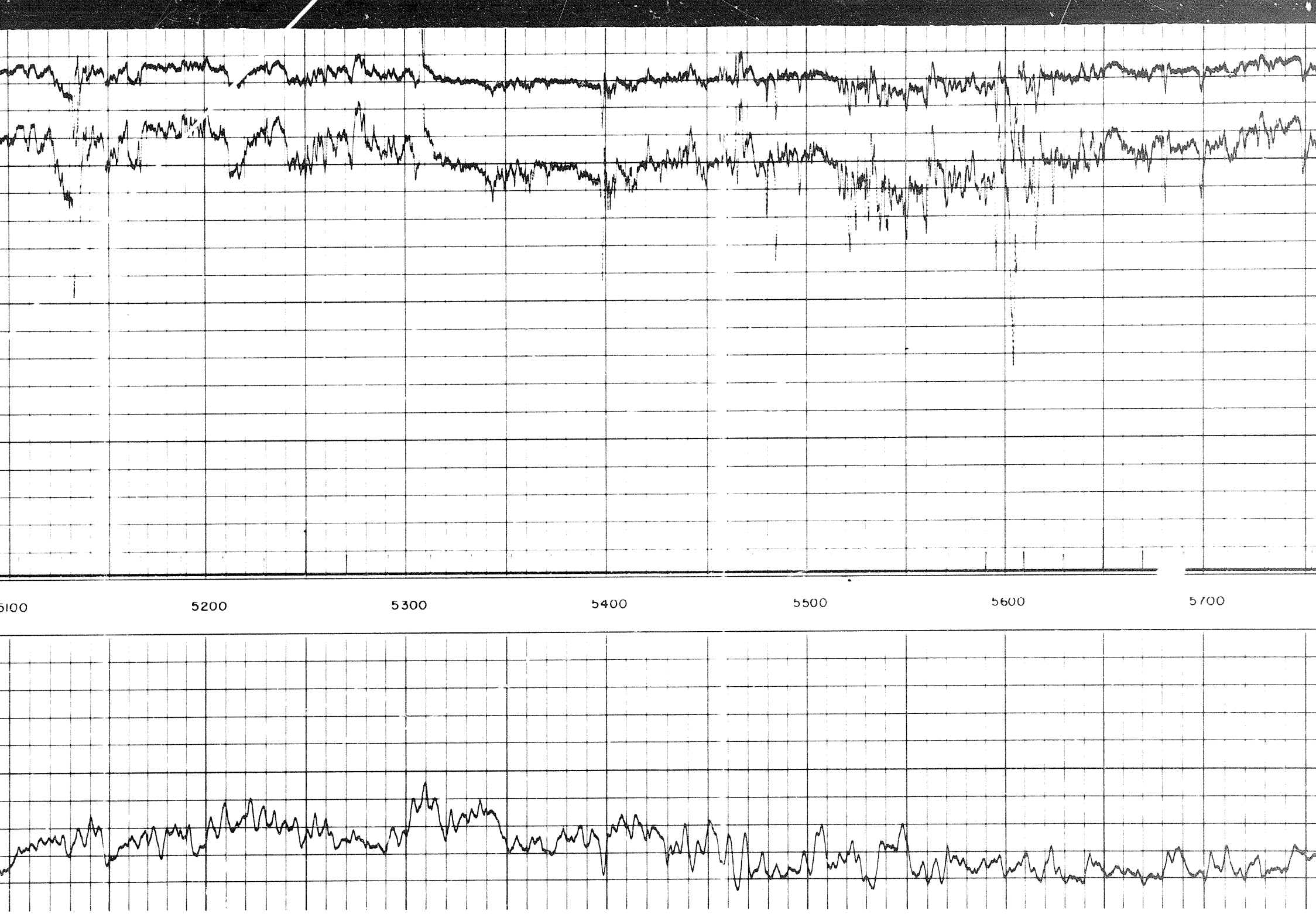
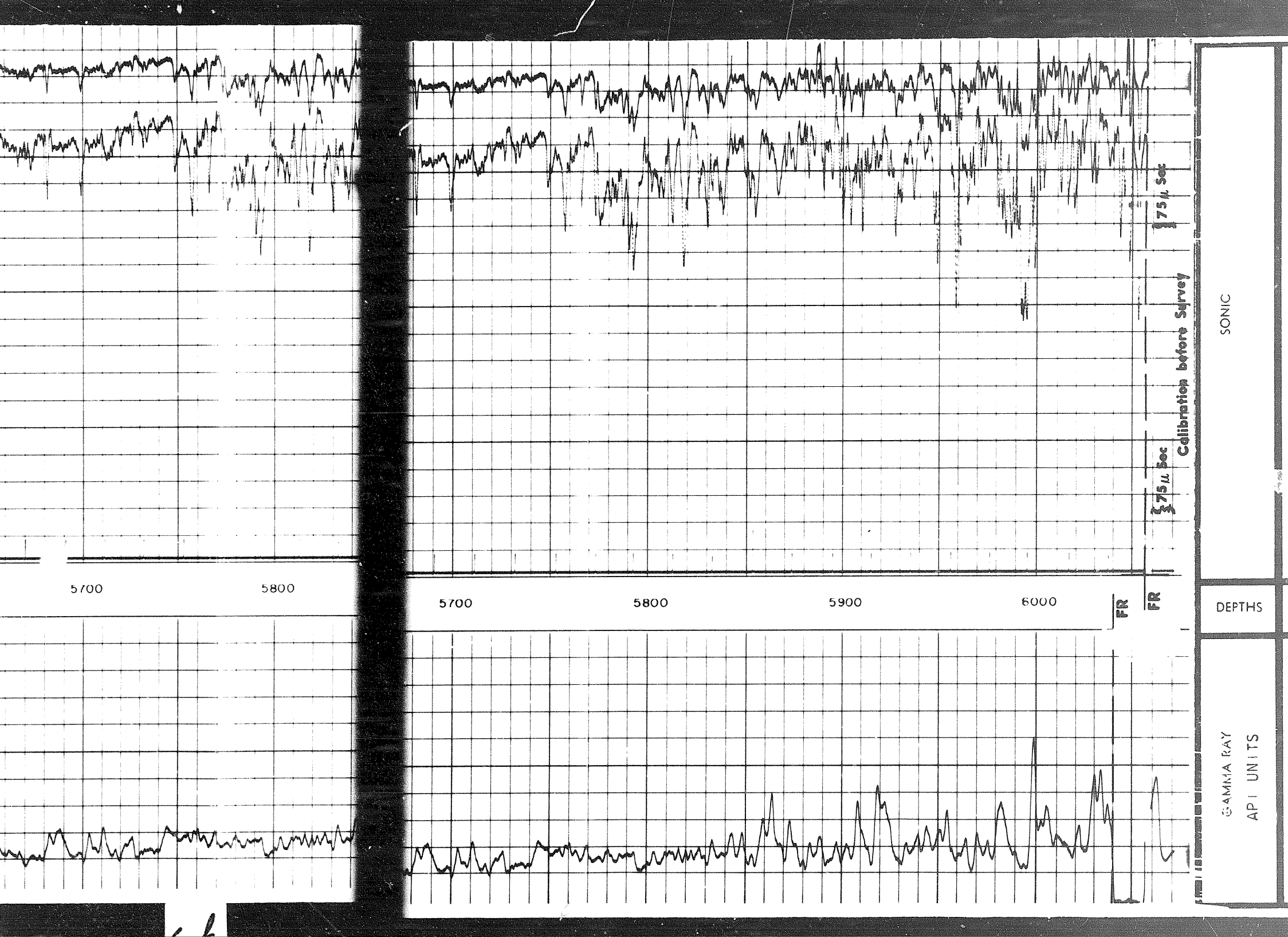

3600
3700
3800
3900
4000
4100
4200

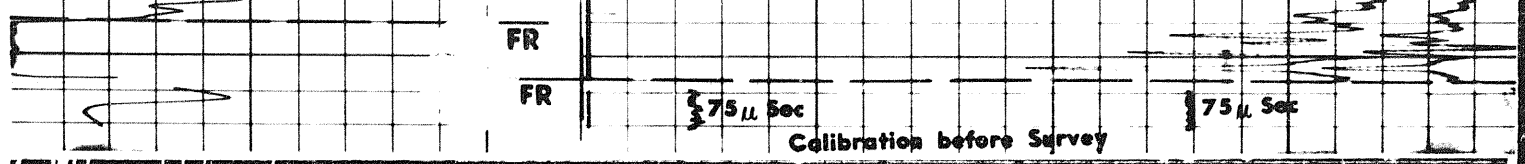

4200
4300
4400
4500
4600


4500
4600


500
4600
4700
4800
4900
5000
5100


5100
5200
5300
5400
5500
5600
5700


SONIC
DEPTHS
GAMMA RAY
API UNITS
5700
5800
5900
6000
FR
FR
Calibration before Survey
175 μ Sec
175 μ Sec



GAMMA RAY

API UNITS

DEPTHS

SONIC

INTERVAL 5303 to 13175

Sens. 300 T.C. 1

Logging Speed 50 ft./min.

ZERO 0 div. to left

0 120

120 240

INTERVAL _____ to _____

Sens. _____ T.C. _____

Logging Speed _____ ft./min.

ZERO _____ div. to left

RUN #3

T

R

R

Spacing 3'

Pickup Span 3'

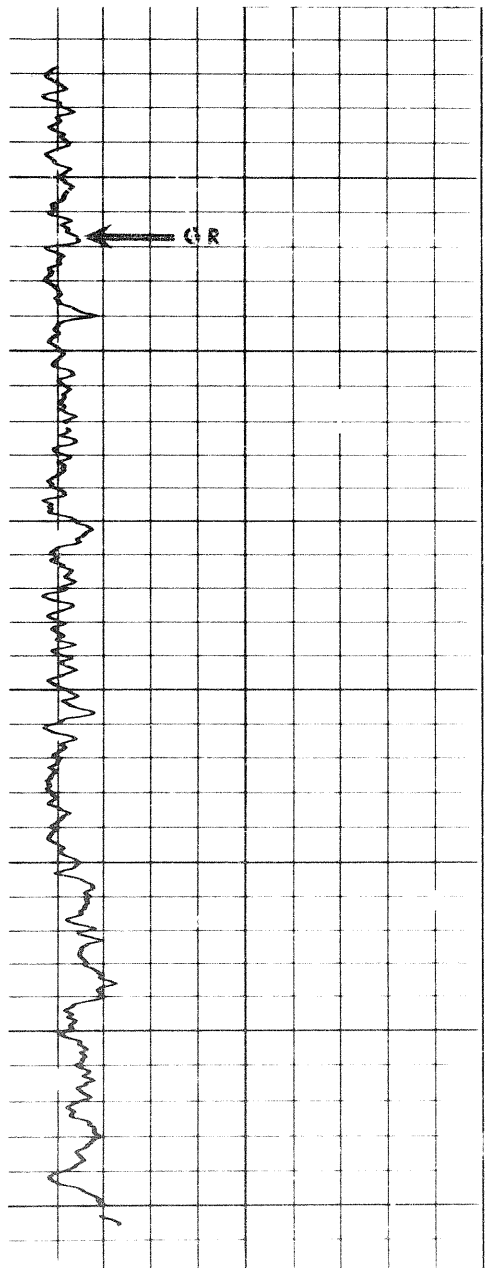
INTERVAL TRANSIT TIME

microseconds per foot

← Increases

140 90 40

80 60 40

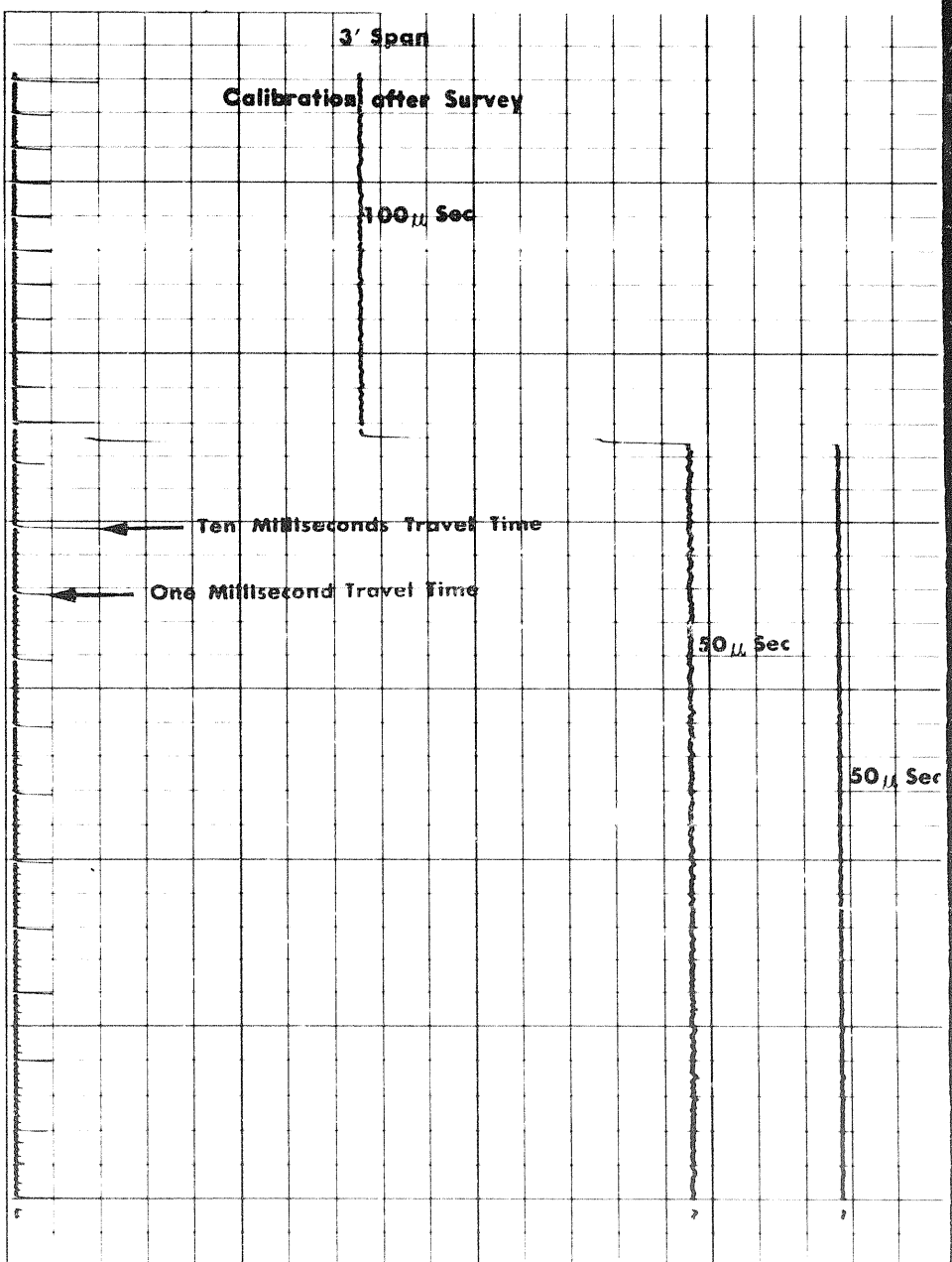


4900

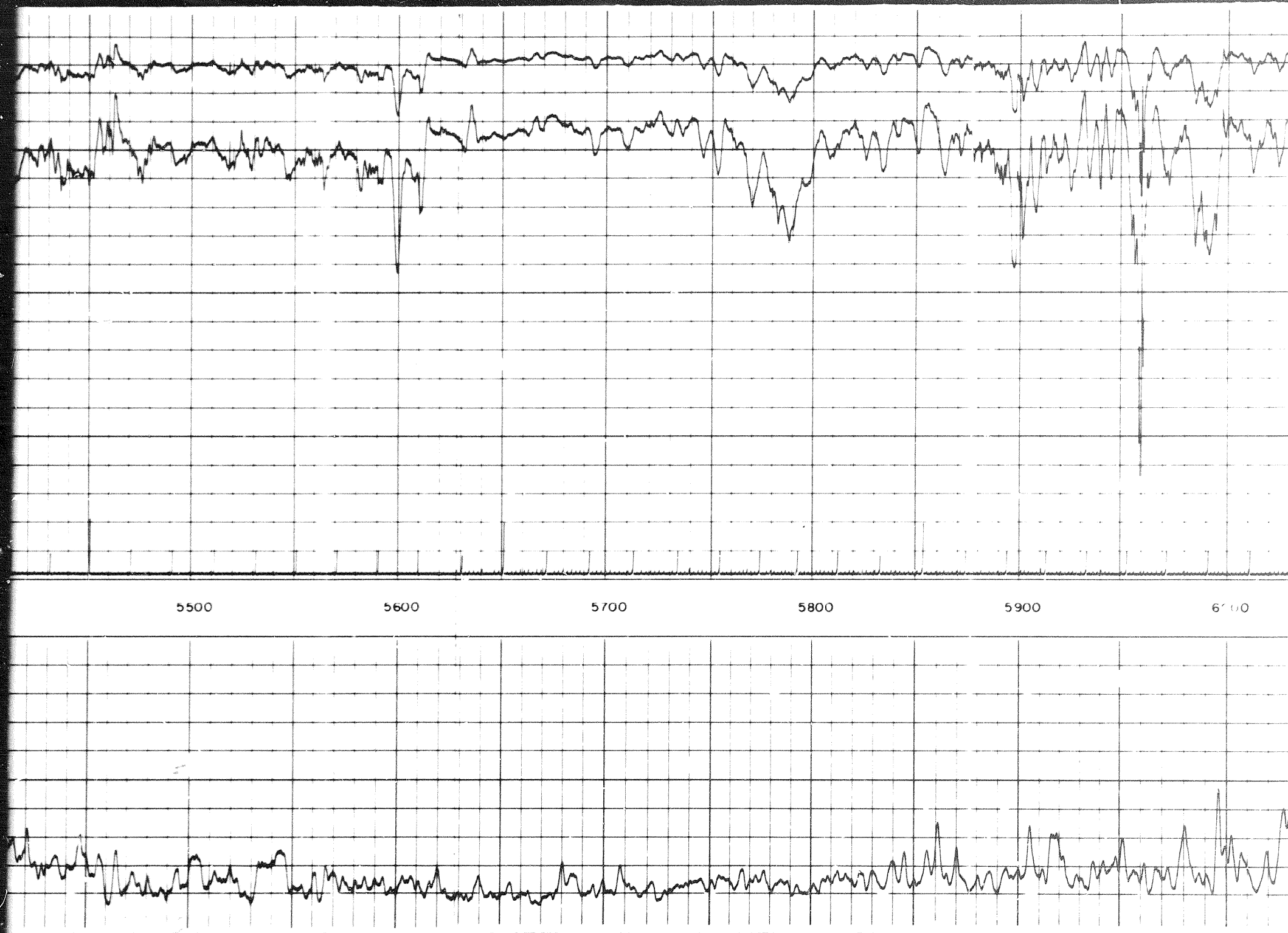
5000

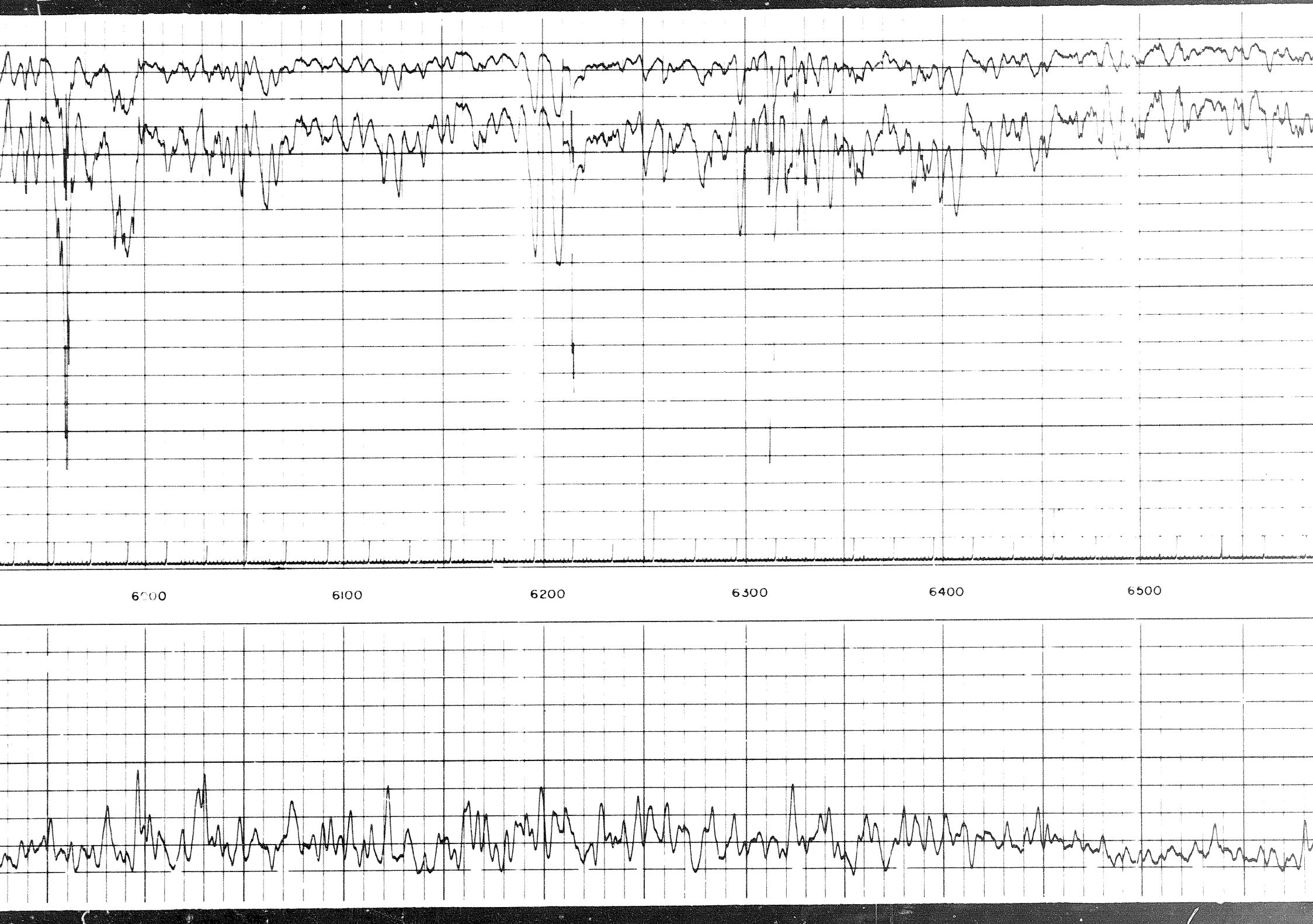
5100

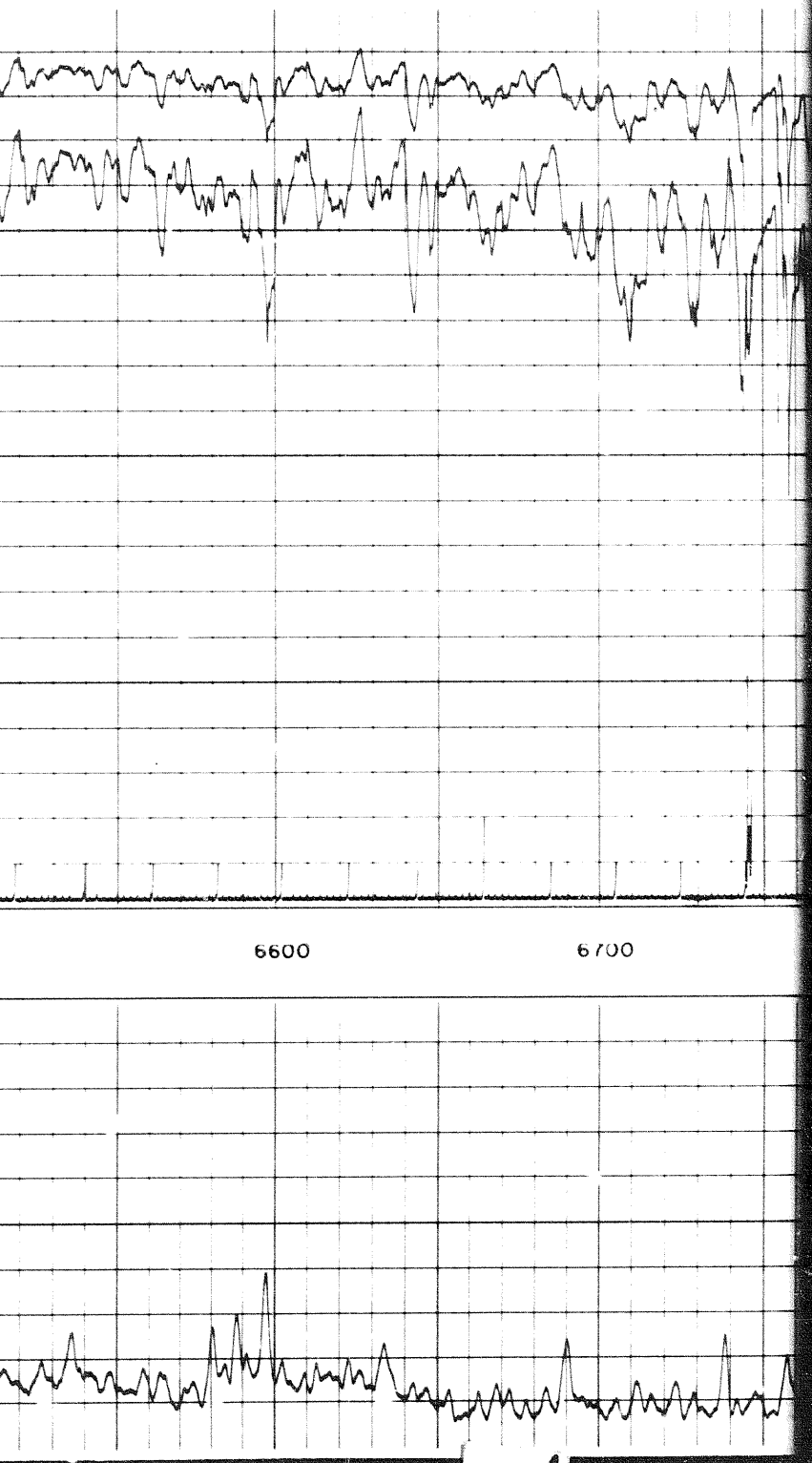
5200



5000
5100
5200
5300
5400
5500
Ten Milliseconds Travel Time
One Millisecond Travel Time
50 μ Sec
50 μ Sec
125 μ Sec
75 μ Sec
100 μ Sec
75 μ Sec
50 μ Sec
50 μ Sec


5500
5600
5700
5800
5900


6000
6100
6200
6300
6400
6500



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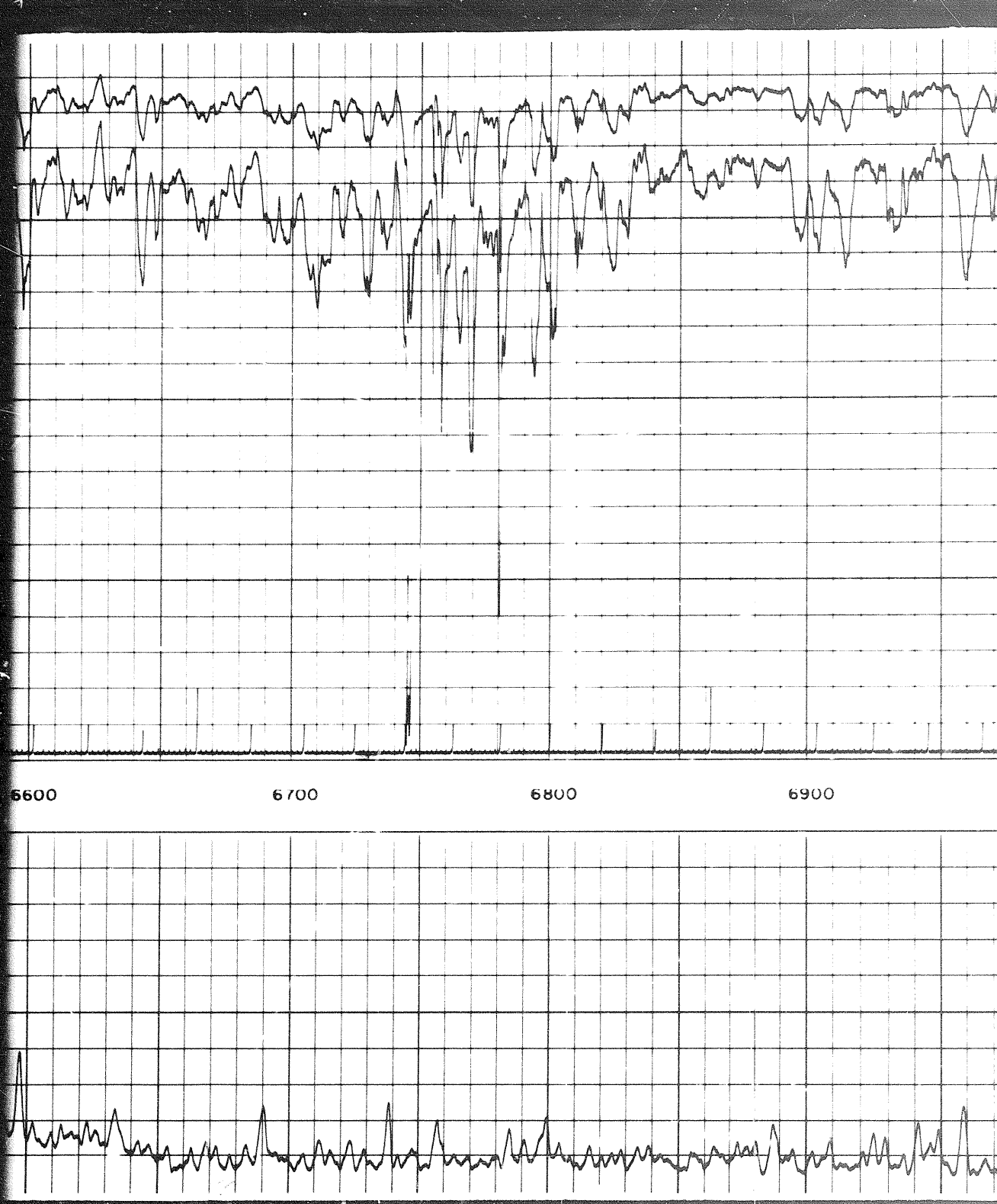
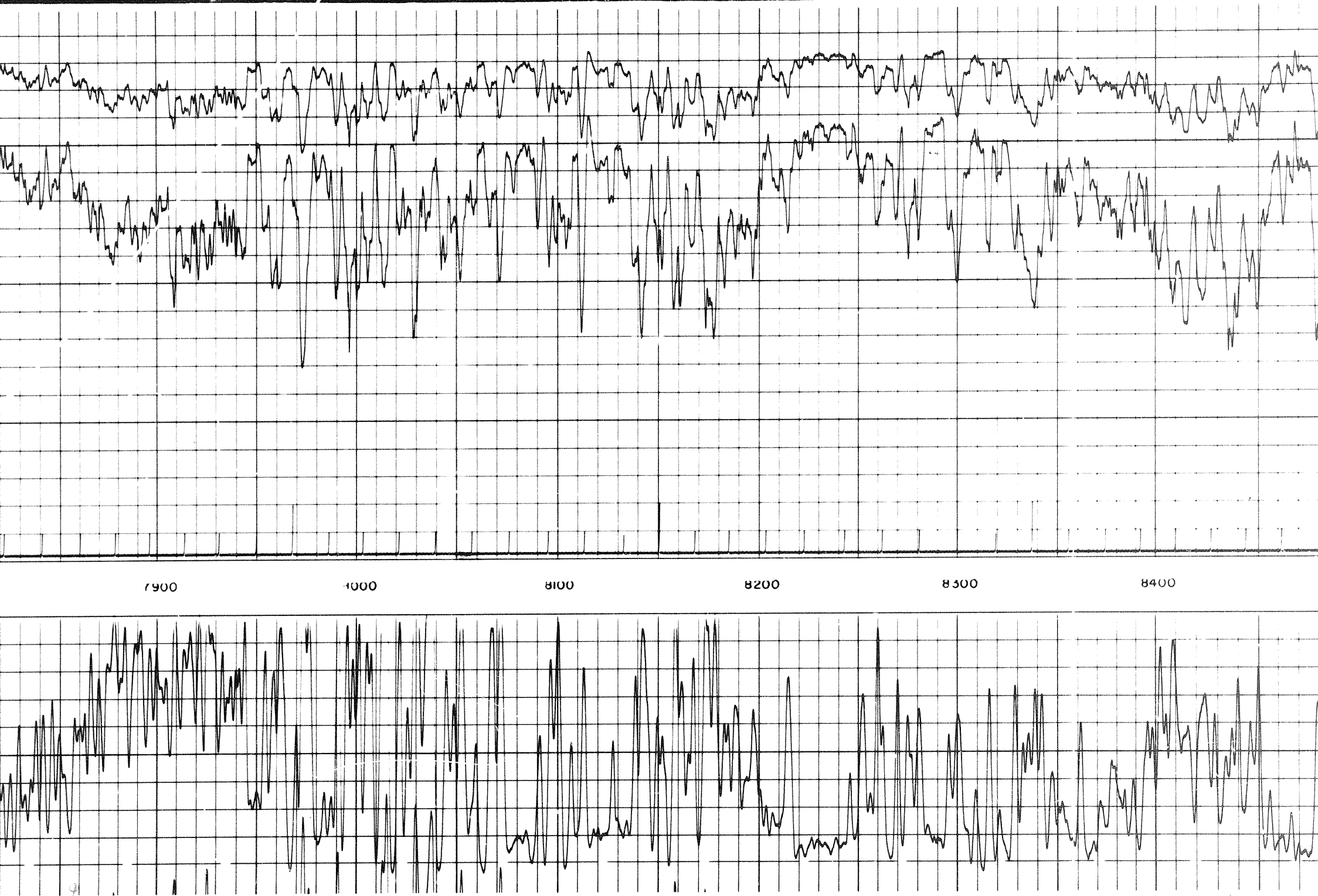
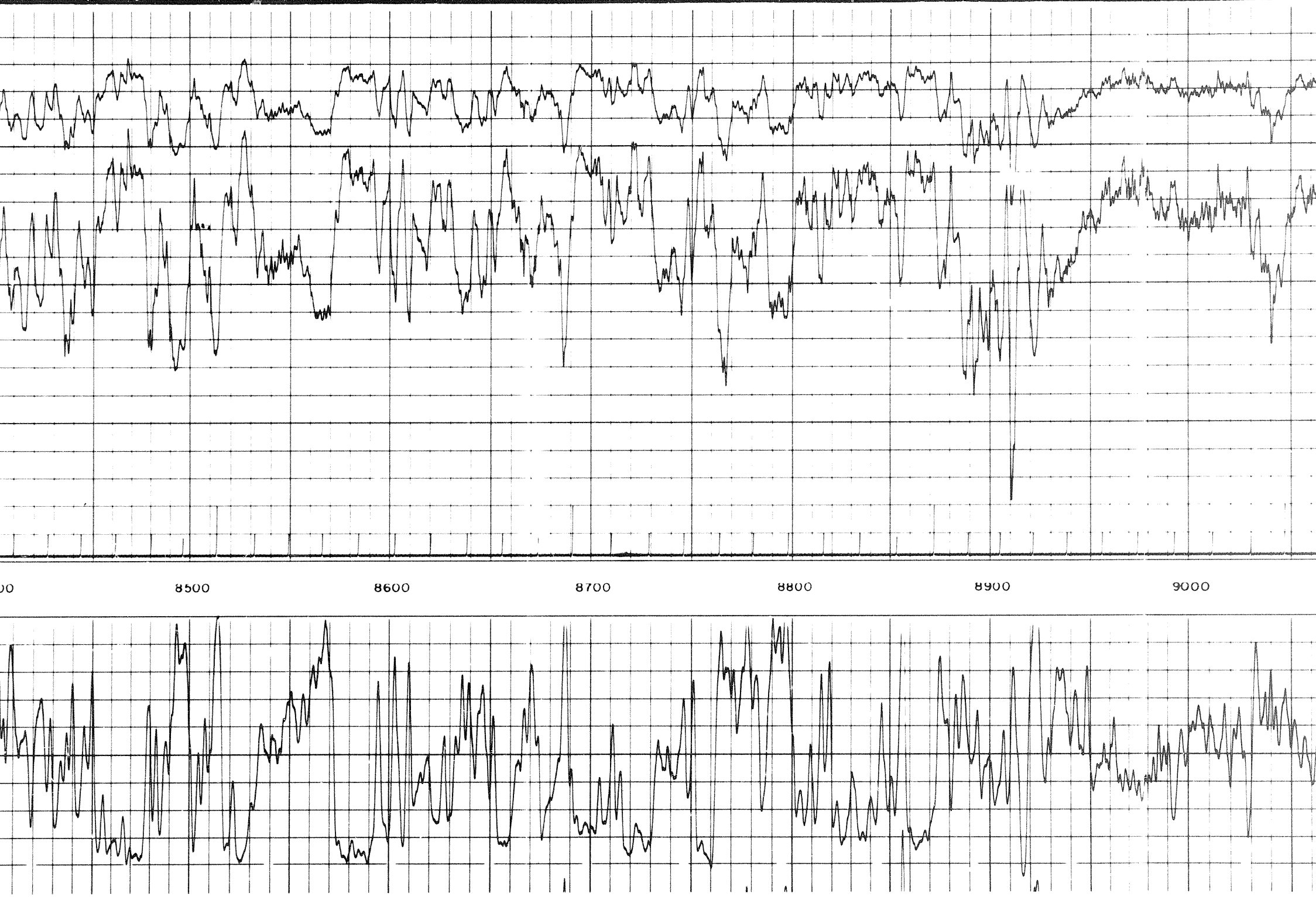
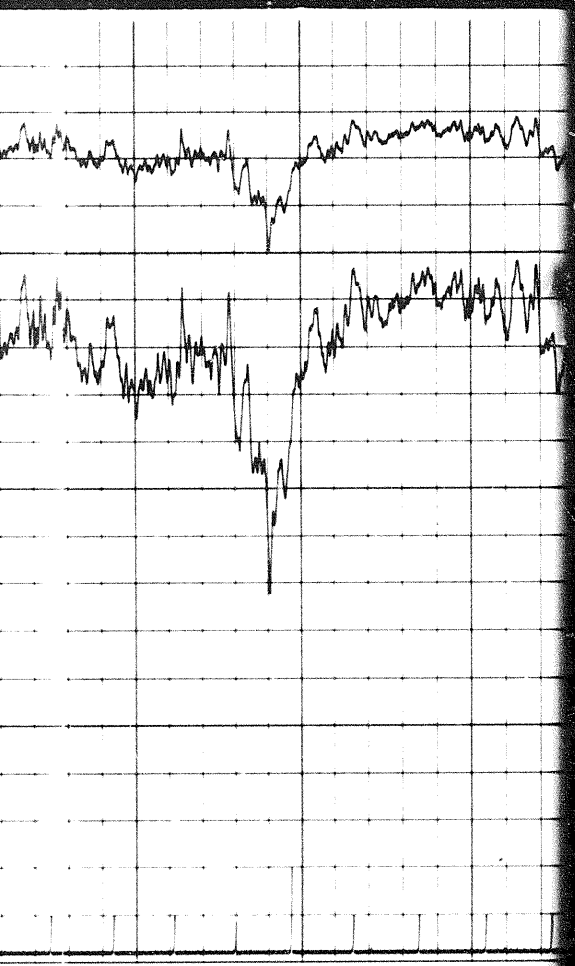


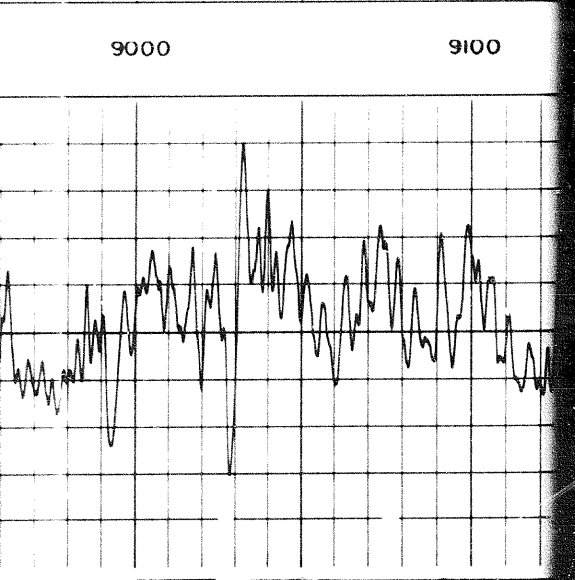
6900
7000
7100
7200
7300
7400
7500

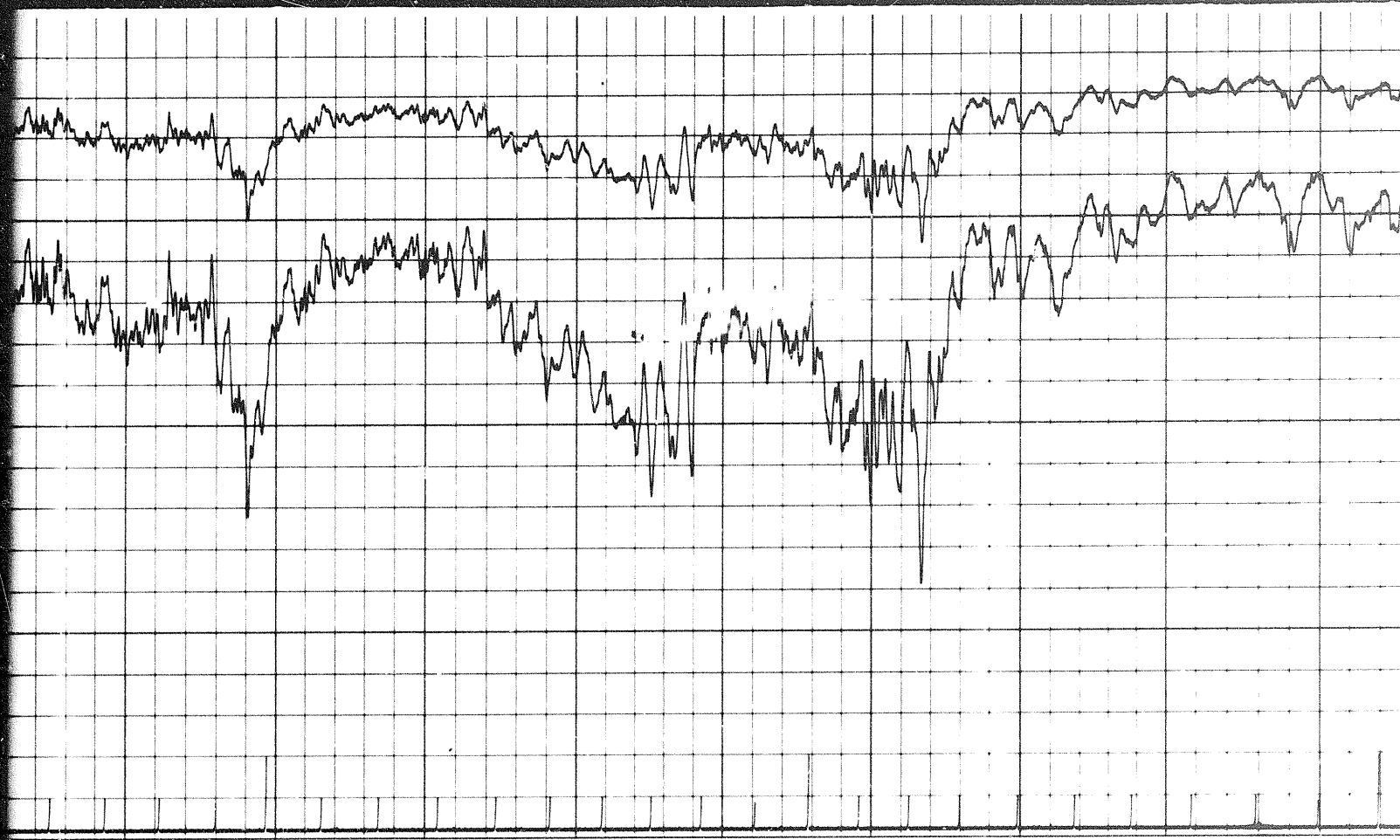
1900
1800
1700
1600
1500
1800
1900

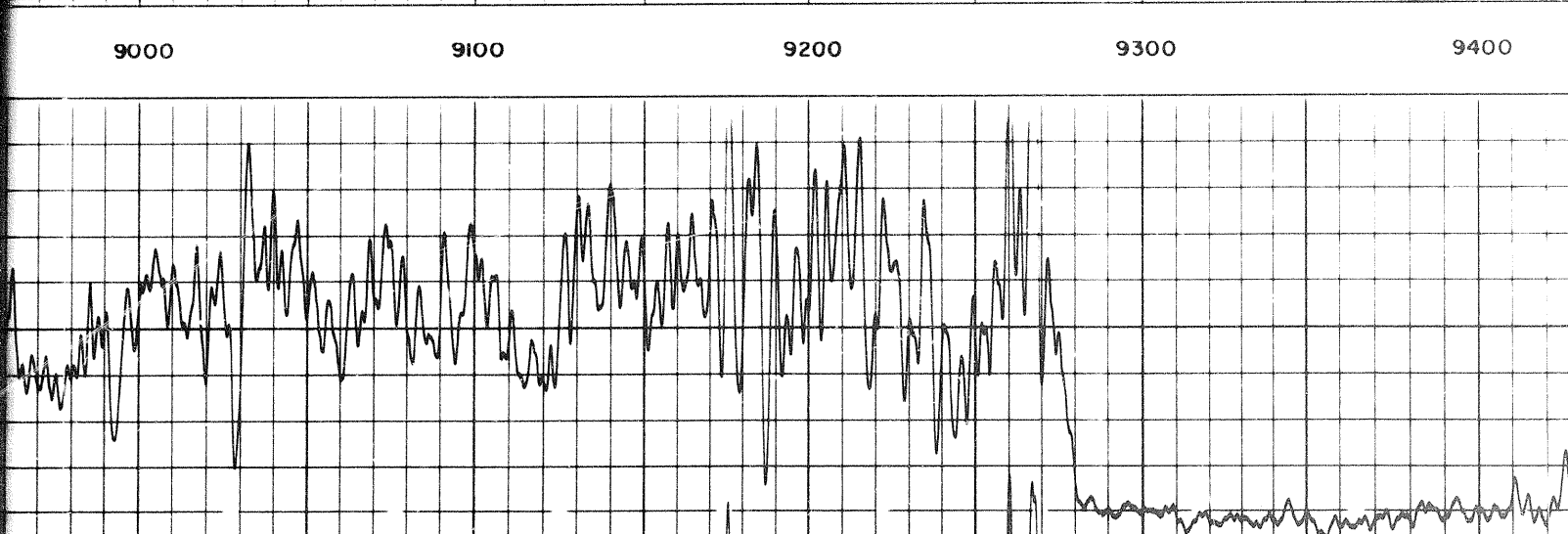

7900
8000
8100
8200
8300
8400

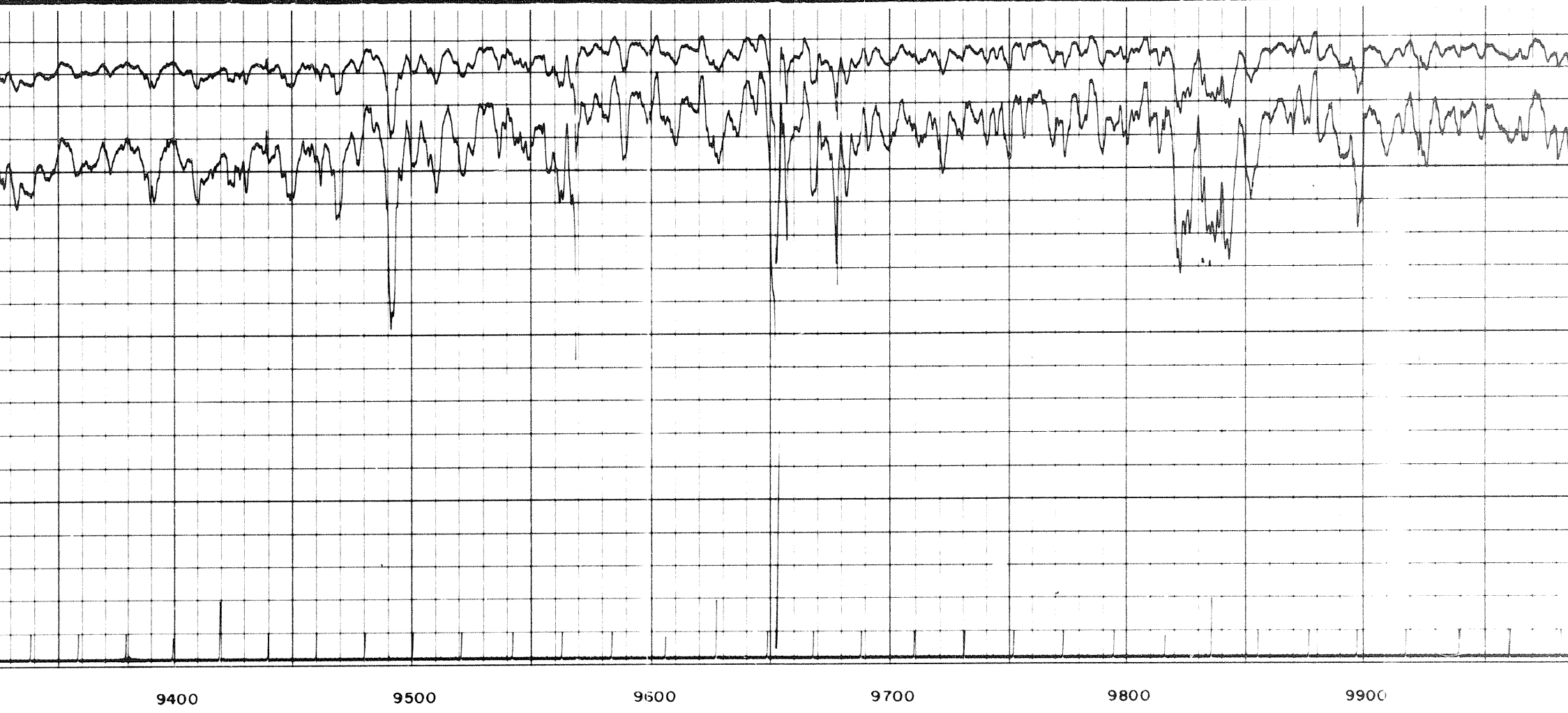

00
8500
8600
8700
8800
8900
9000




9000
9100




9000
9100
9200
9300
9400


9400
9500
9600
9700
9800
9900

9800

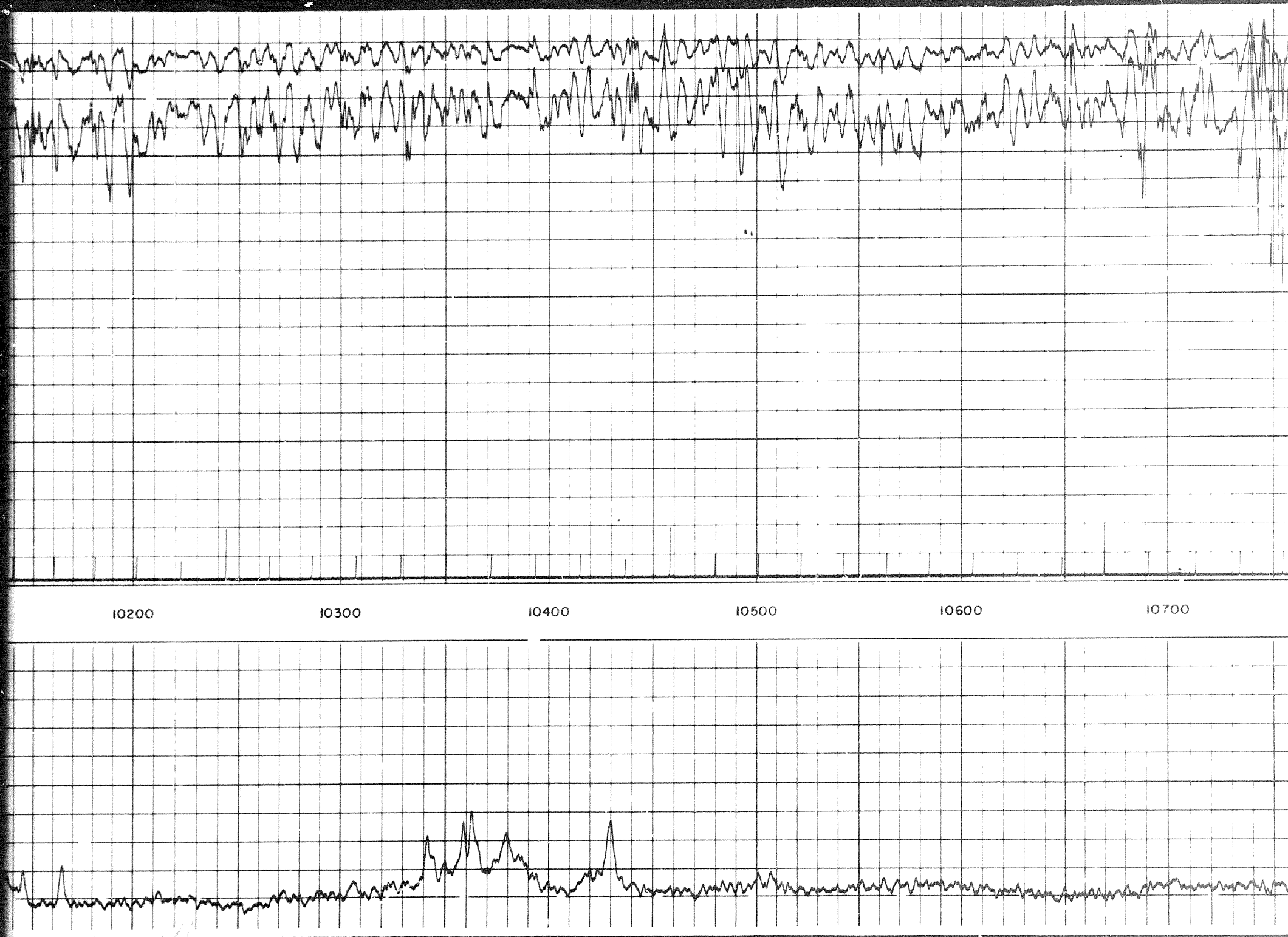
9900

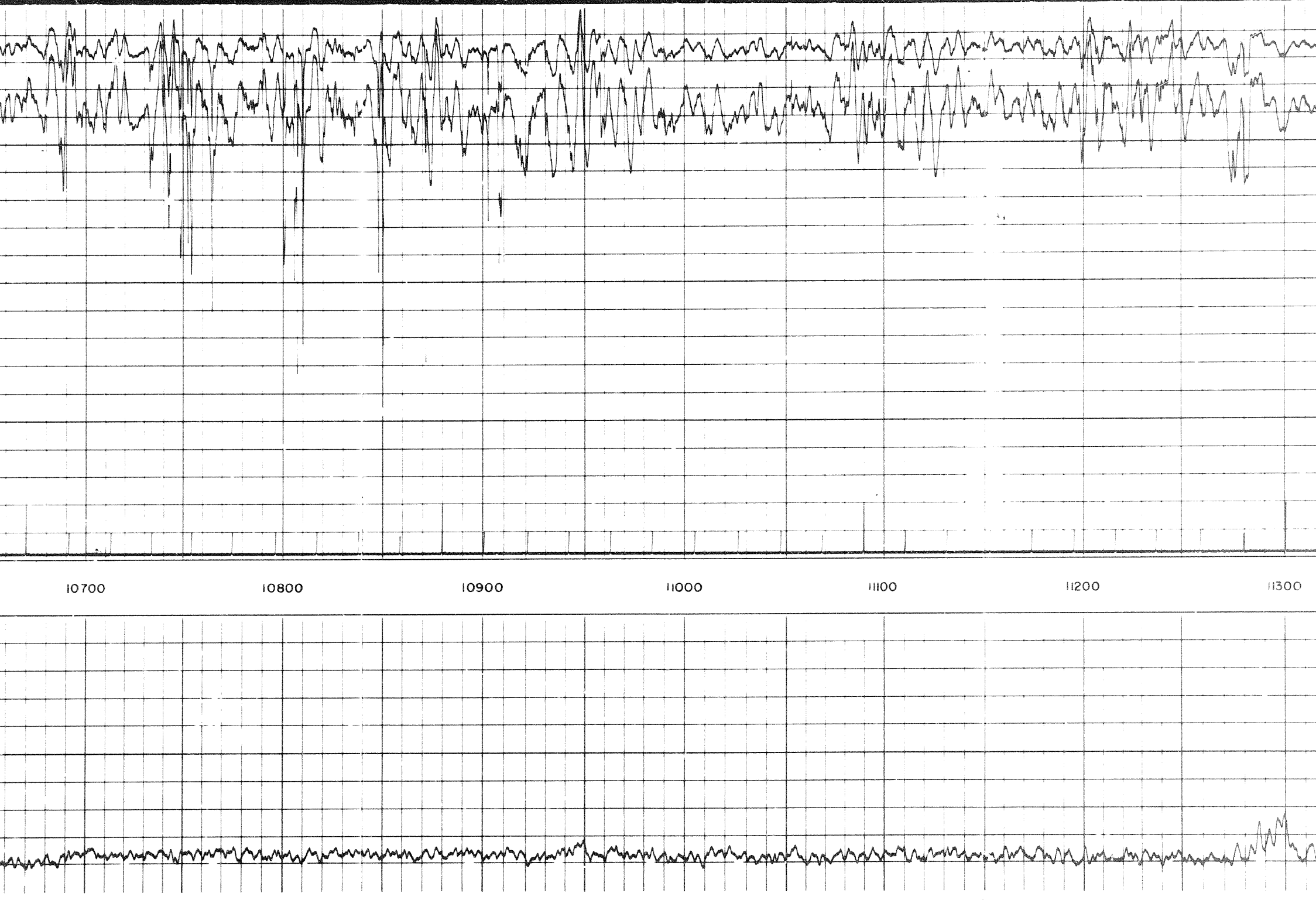
10000

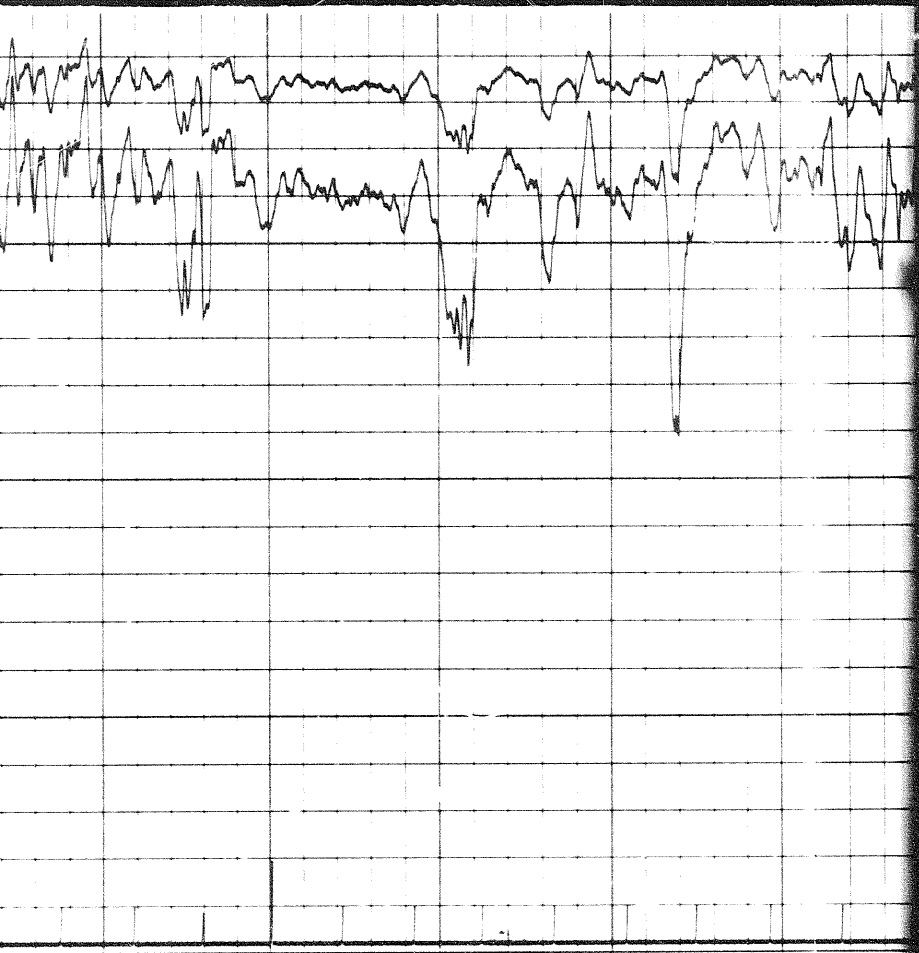
10100

10200

10300

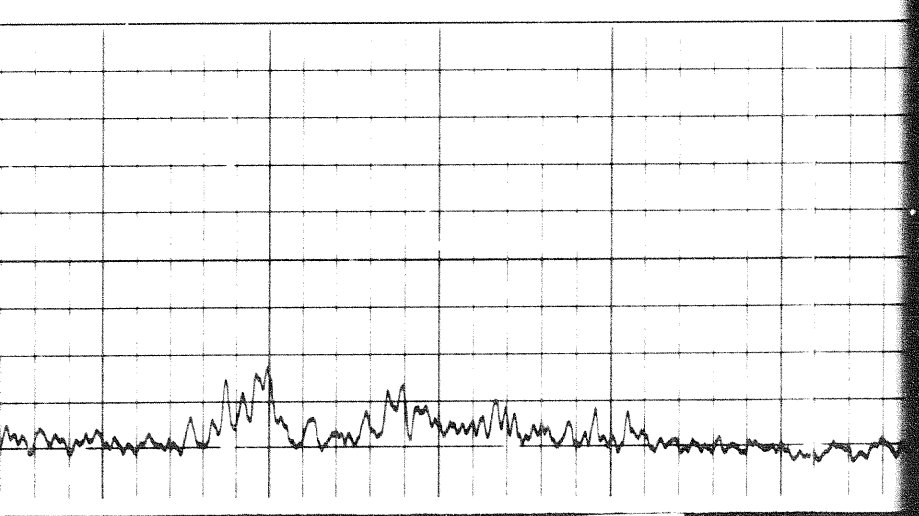

10200
10300
10400
10500
10600
10700

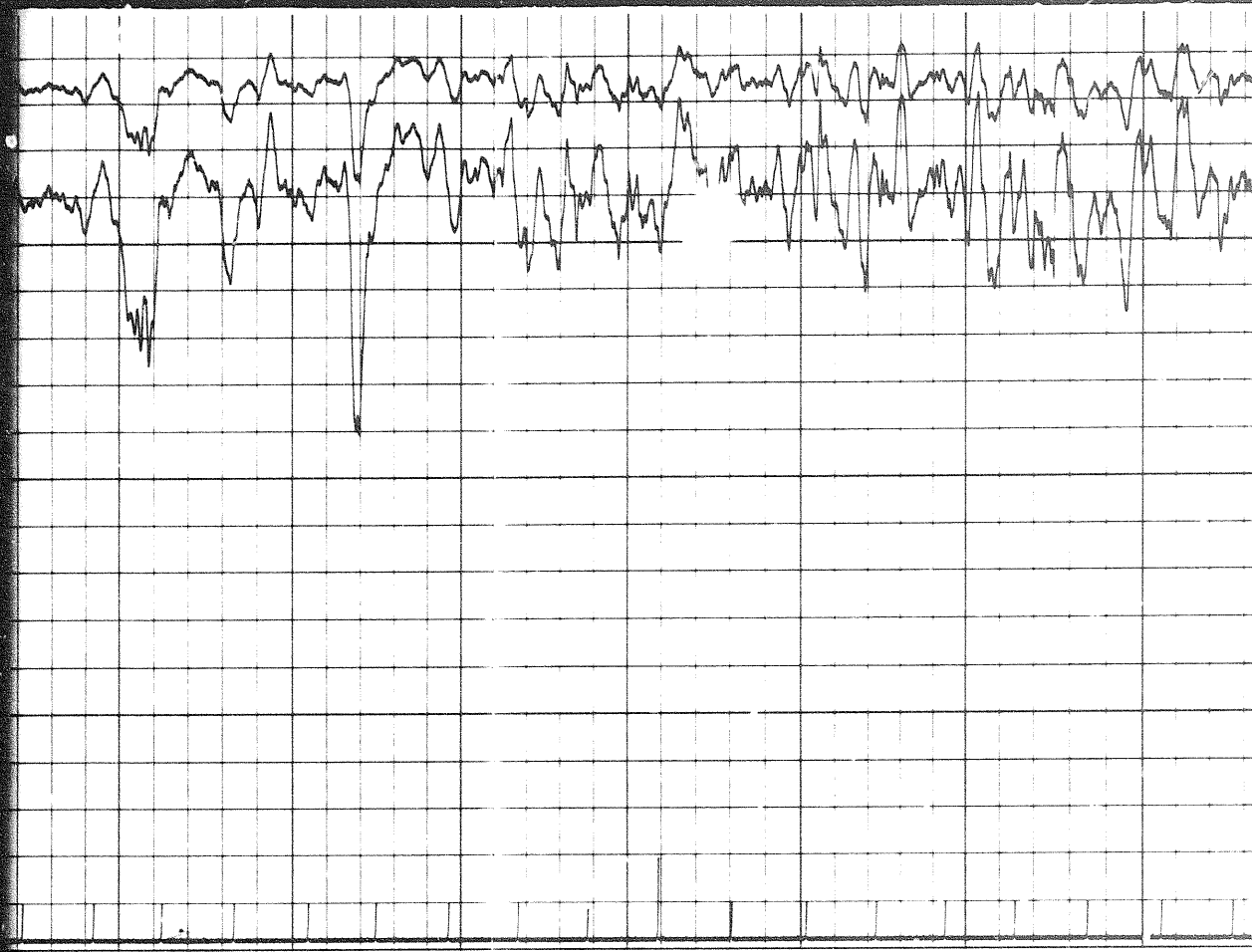

10700
10800
10900
11000
11100
11200
11300



11300

11400

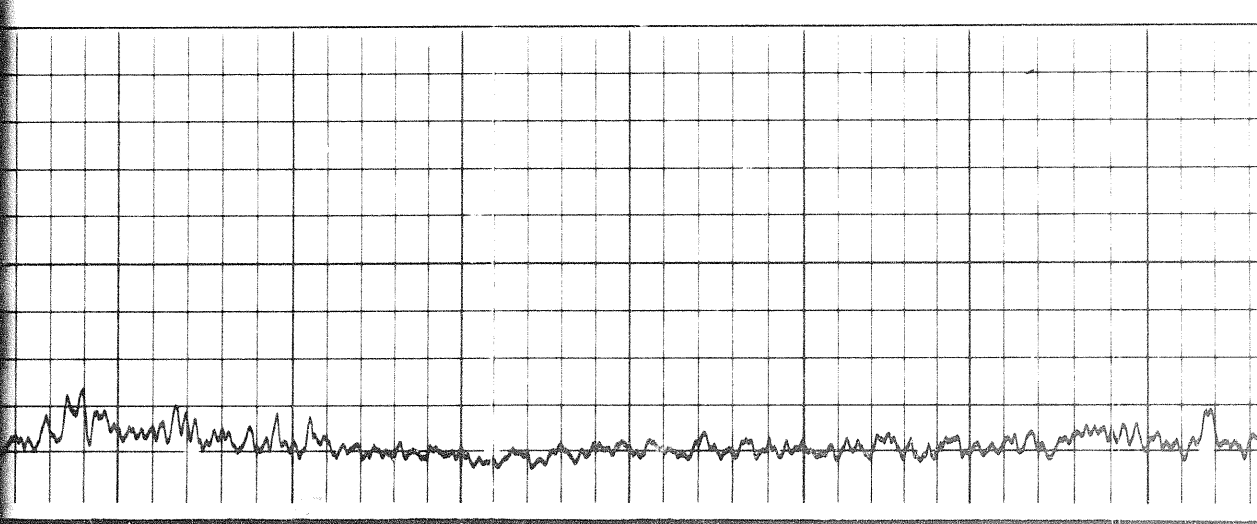


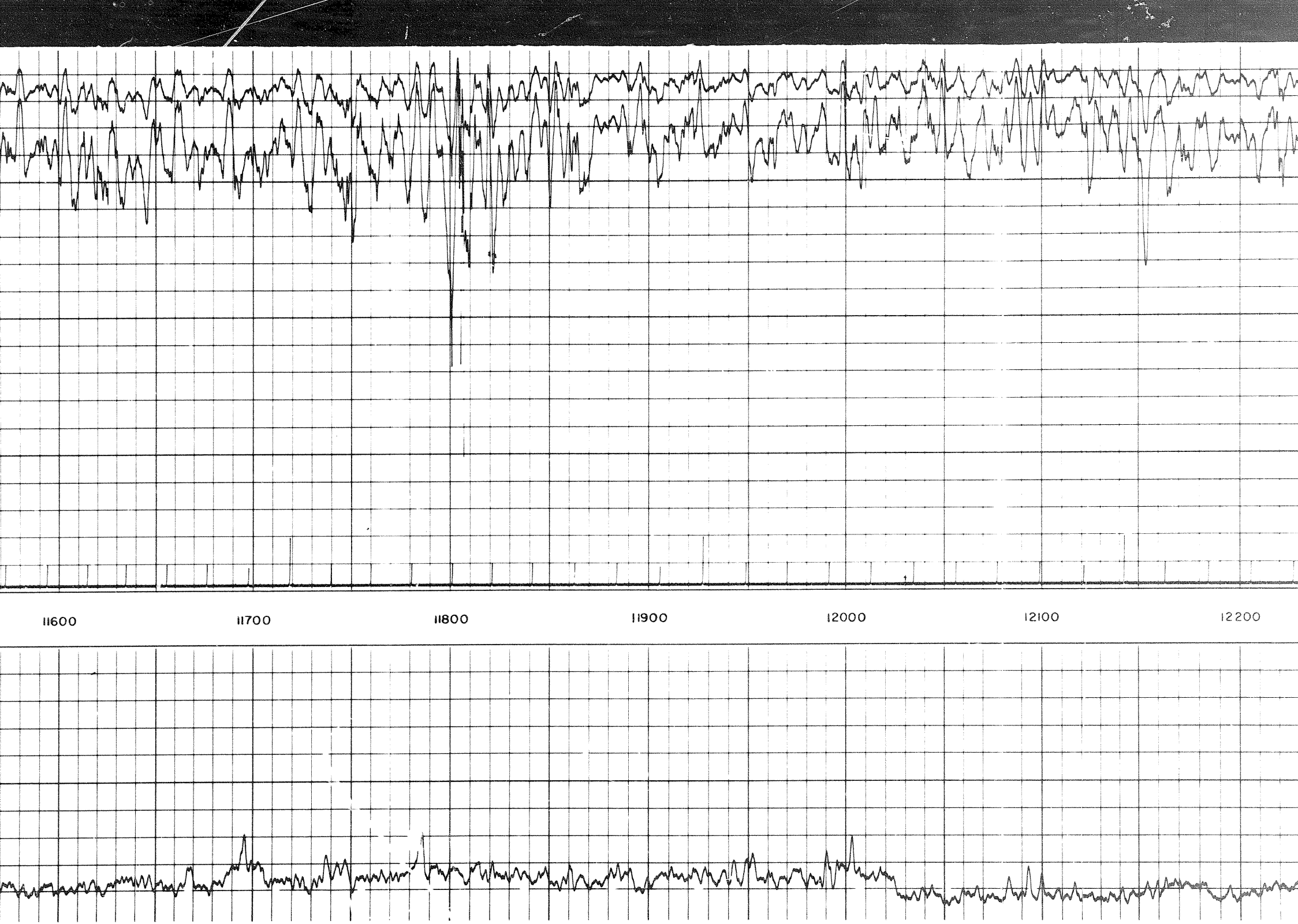


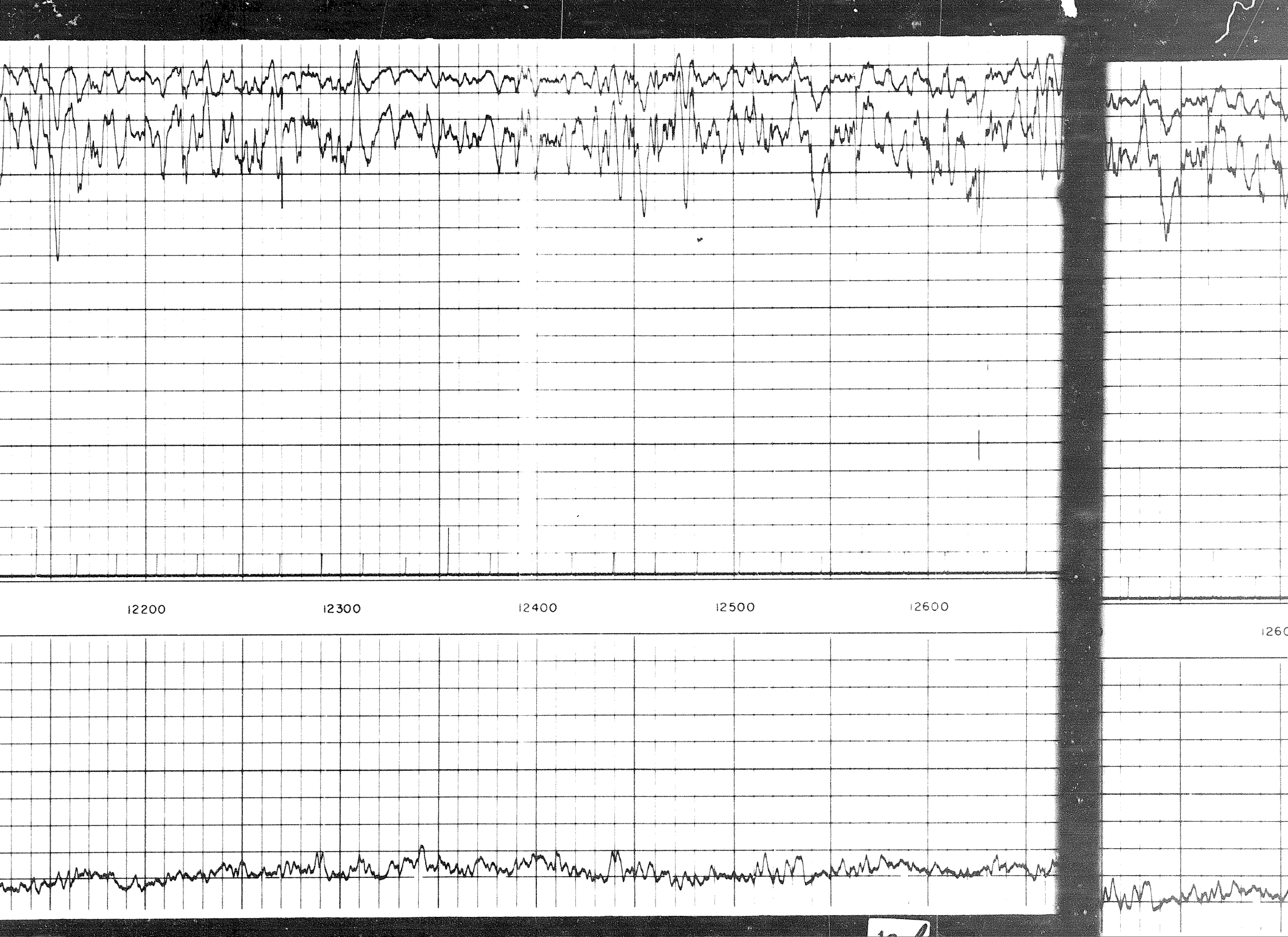
11400

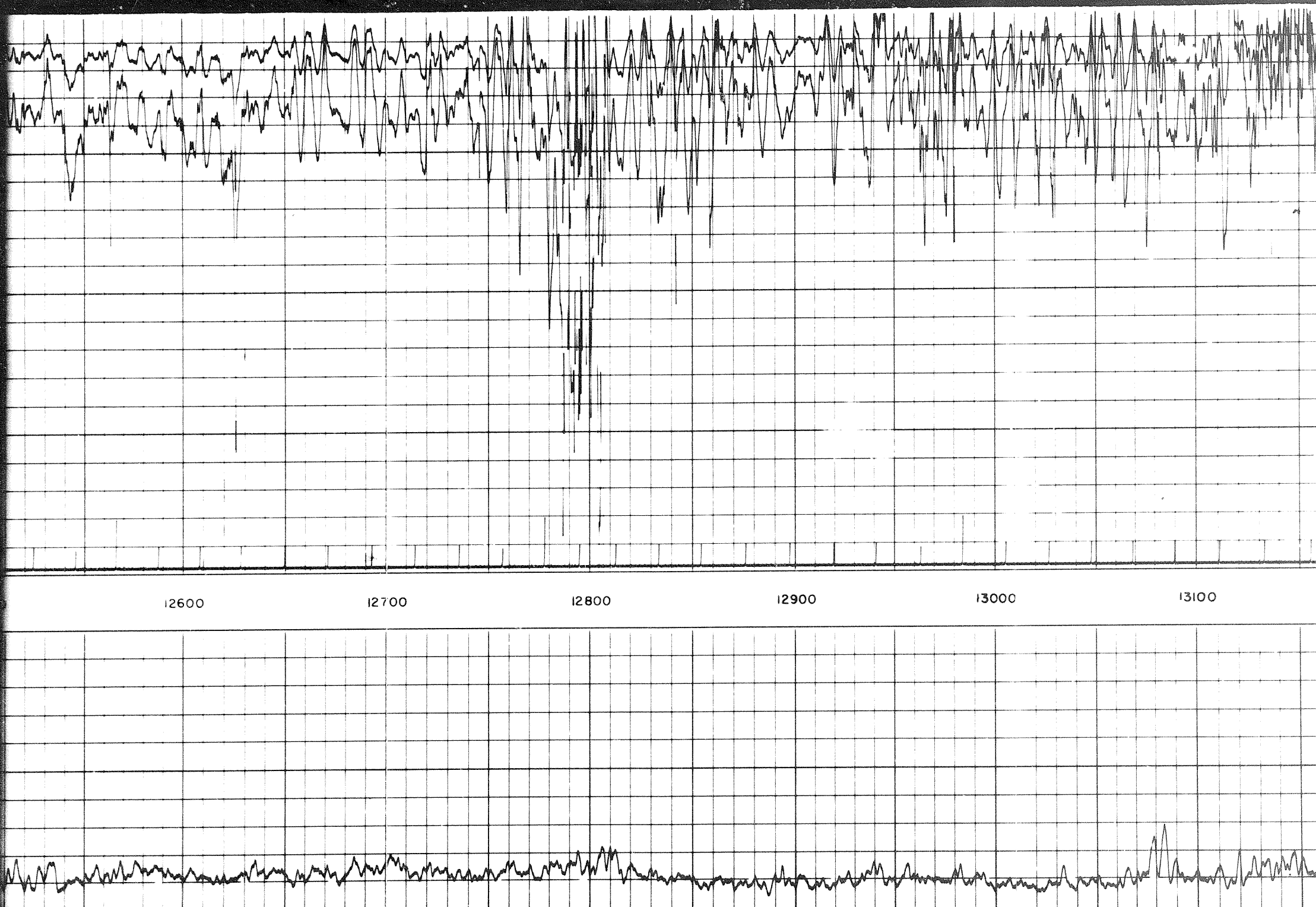
11500

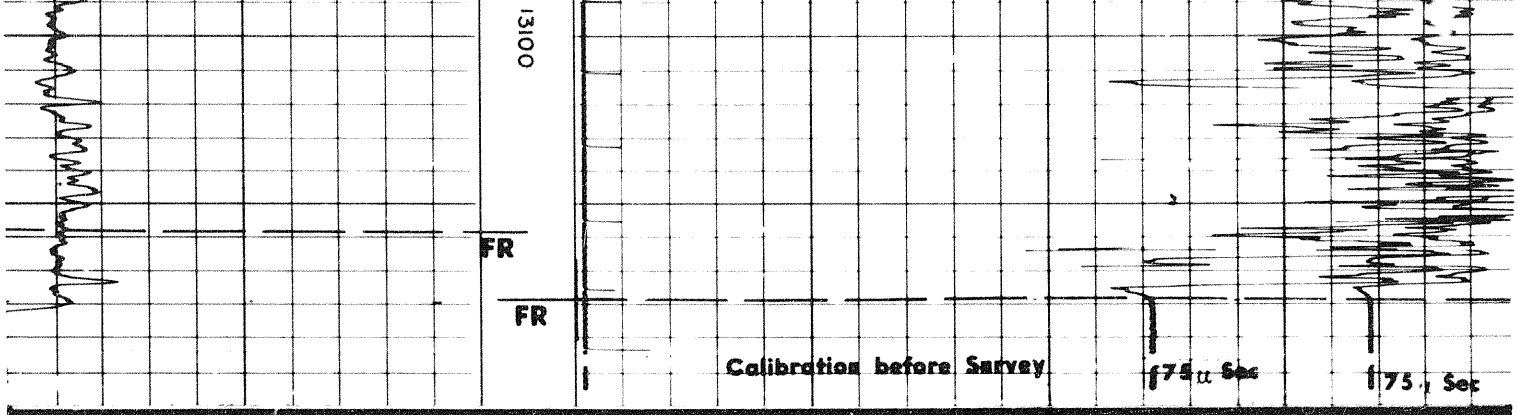
11600




11600
11700
11800
11900
12000
12100
12200


12200
12300
12400
12500
12600
126


12600
12700
12800
12900
13000
13100



DETAIL LOG

RUN #1

5" = 100'

GAMMA RAY

API UNITS

INTERVAL CSG to T.D.

Sens. 400 T.C. 2

Logging Speed _____ ft./min.

ZERO 0 div. to left

0 160

160 320

INTERVAL _____ to _____

Sens. _____ T.C. _____

Logging Speed _____ ft./min.

ZERO _____ div. to left

SONIC

T

R

R

Spacing 3'

Pickup Span 1'

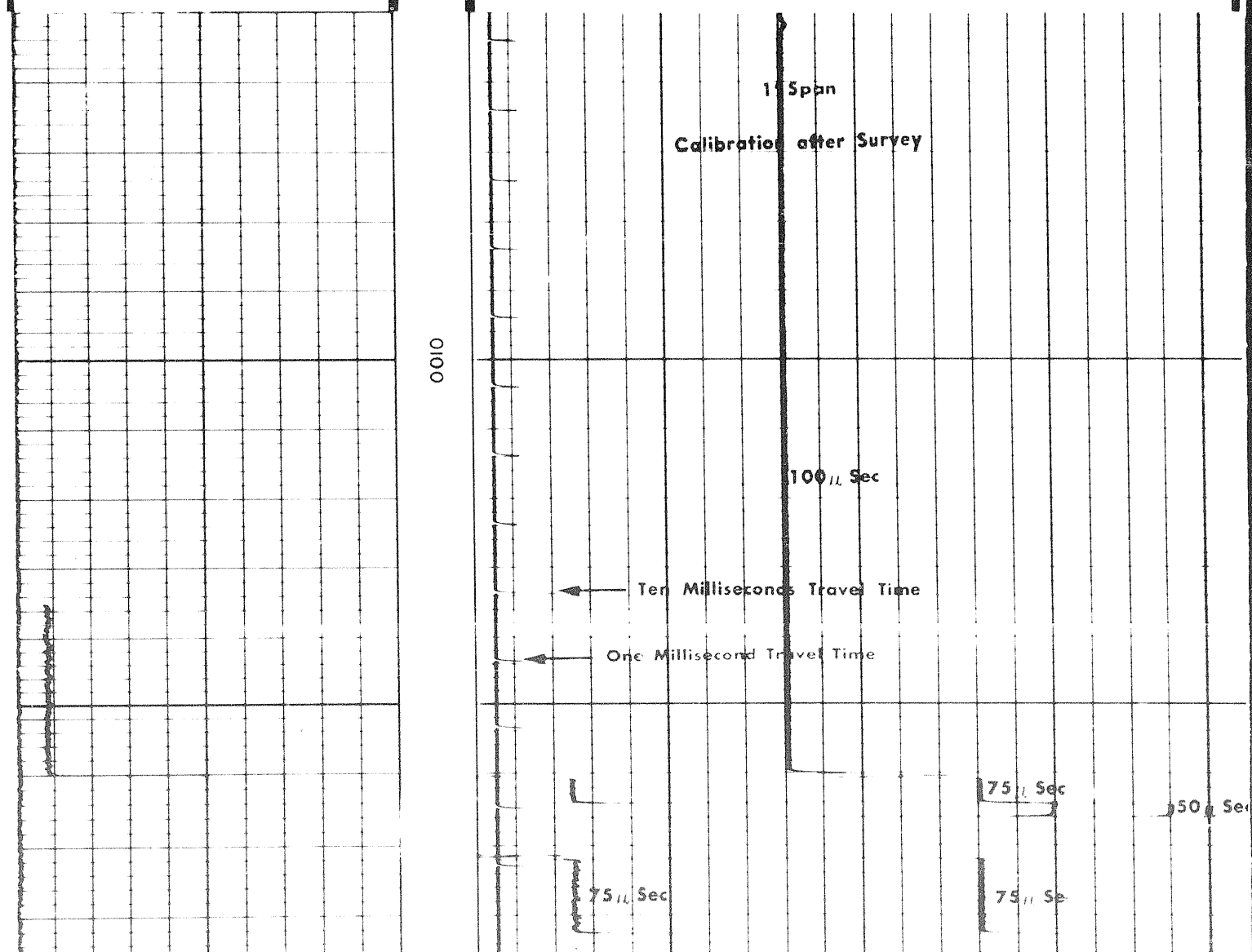
INTERVAL TRANSIT TIME

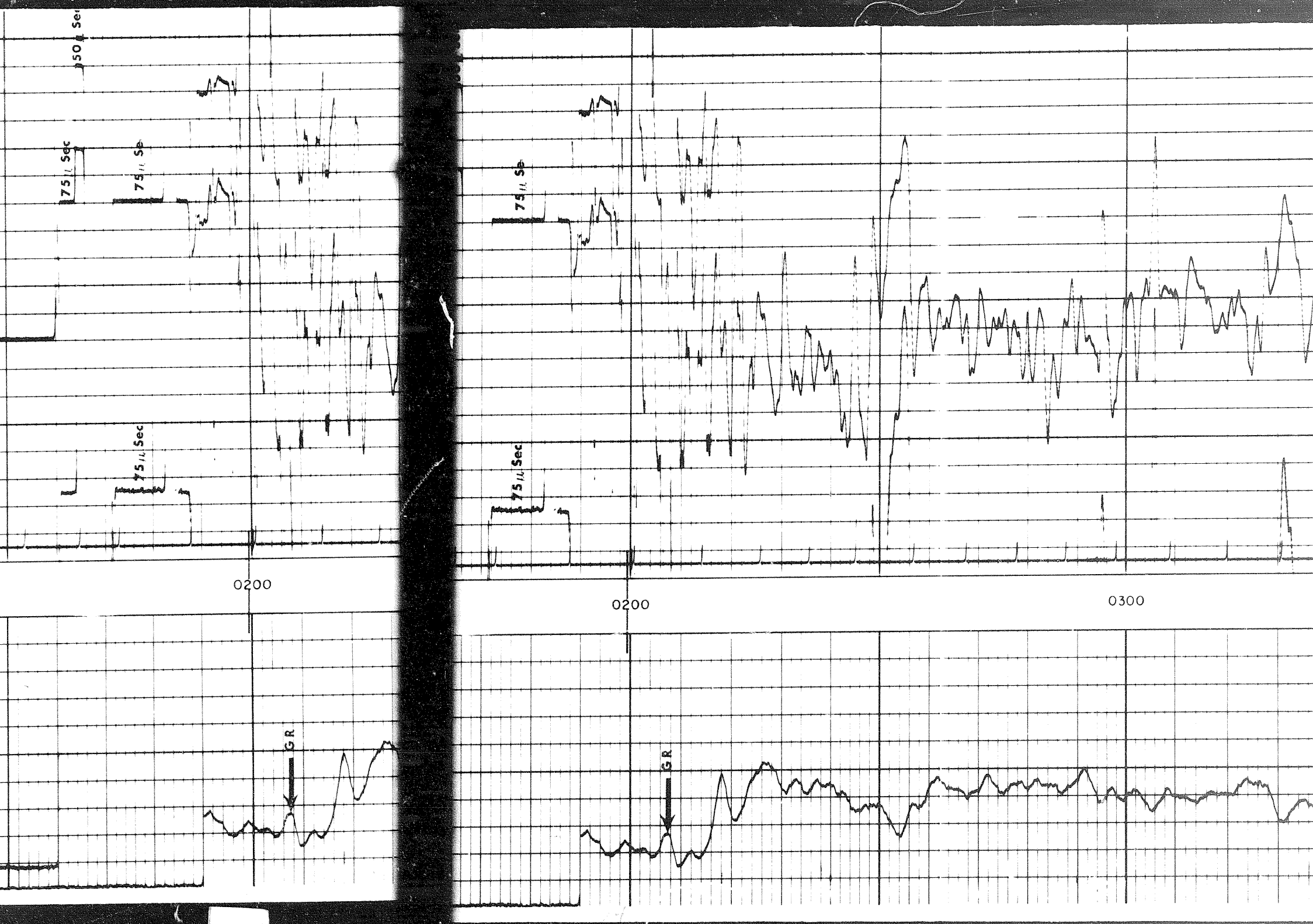
microseconds per foot

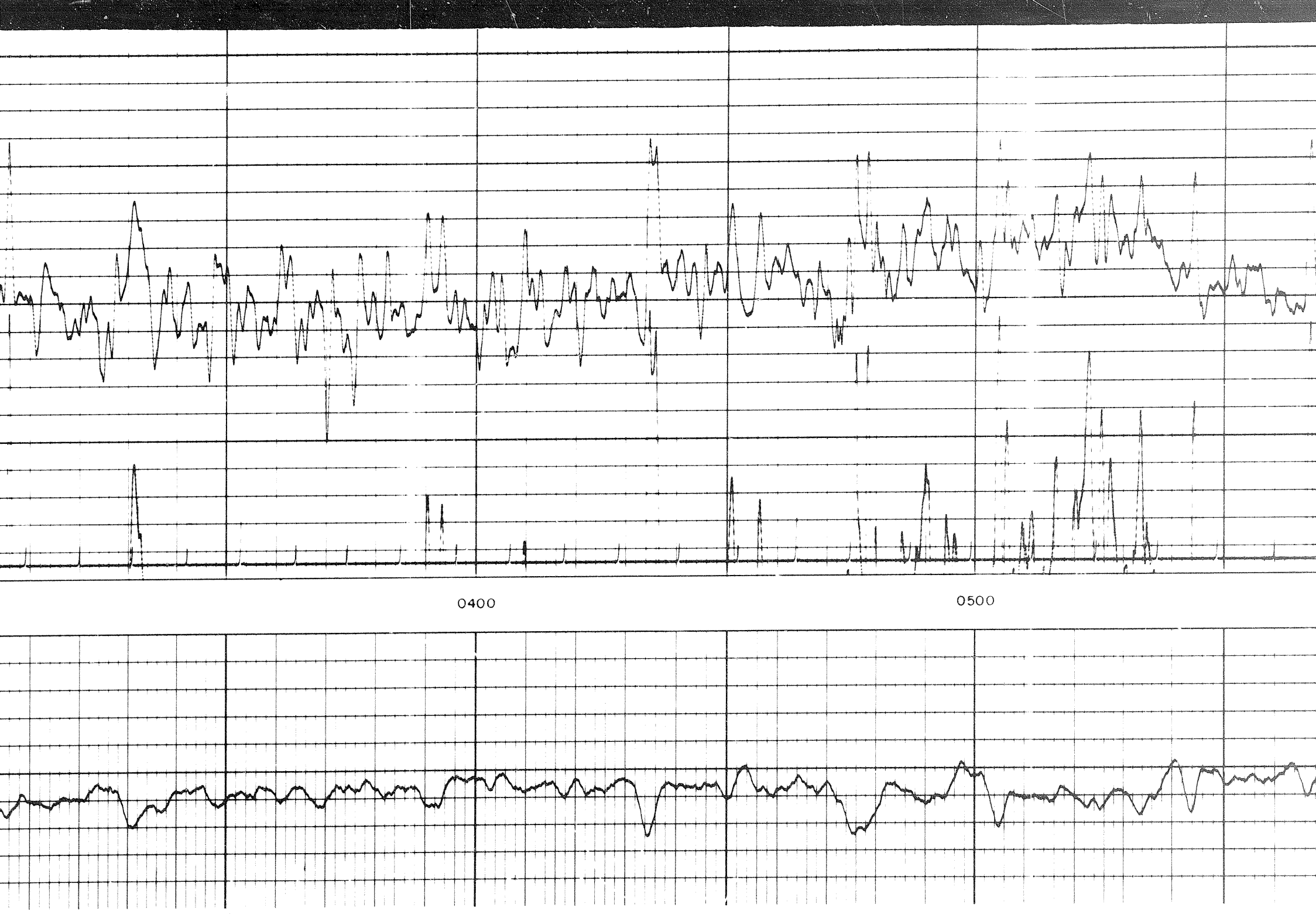
Increases

140 90 40

80 60 40



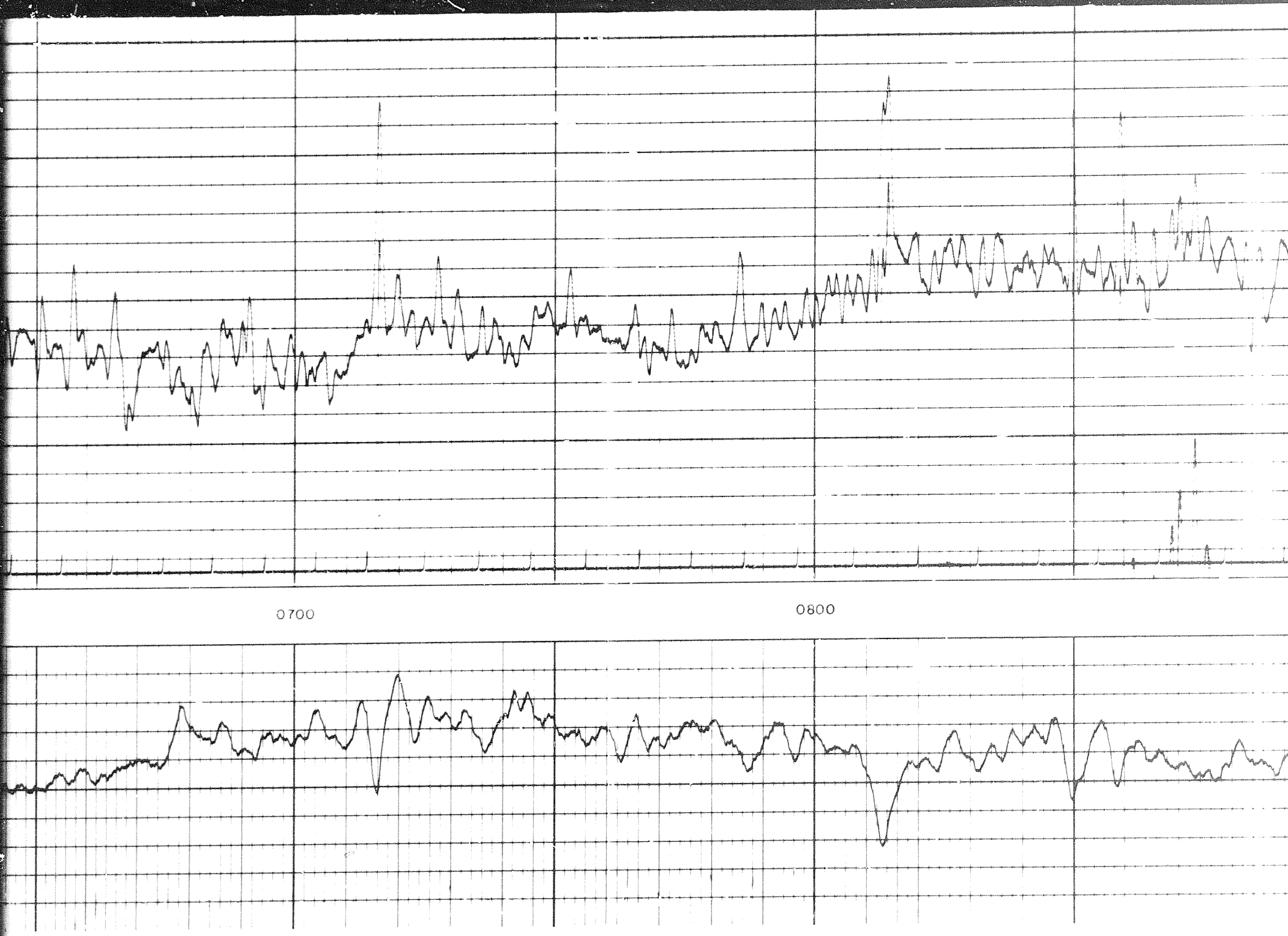

75 μ Sec
75 μ Sec
75 μ Sec
75 μ Sec
0200
0200
0300
GR
GR

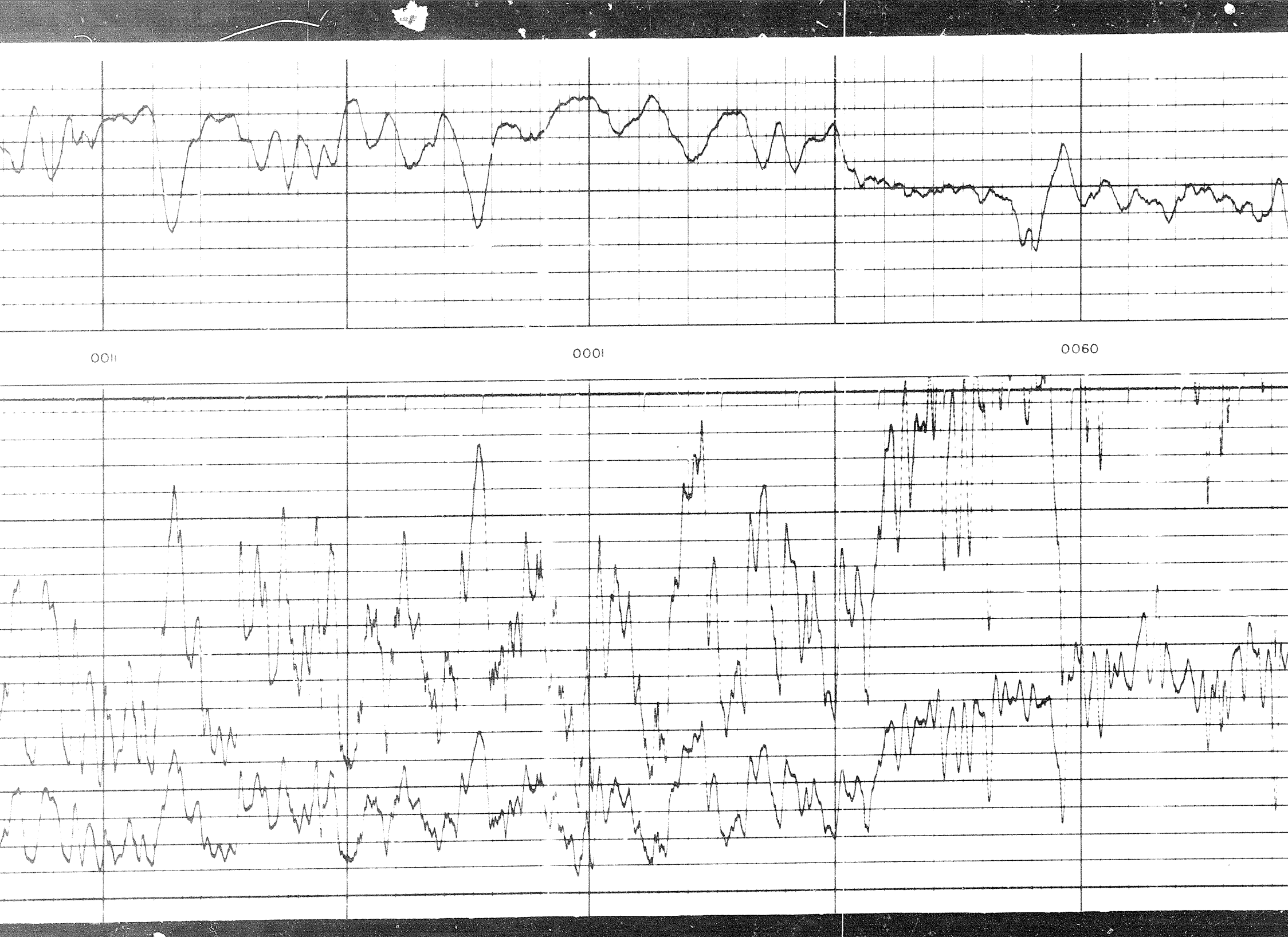

0400
0500

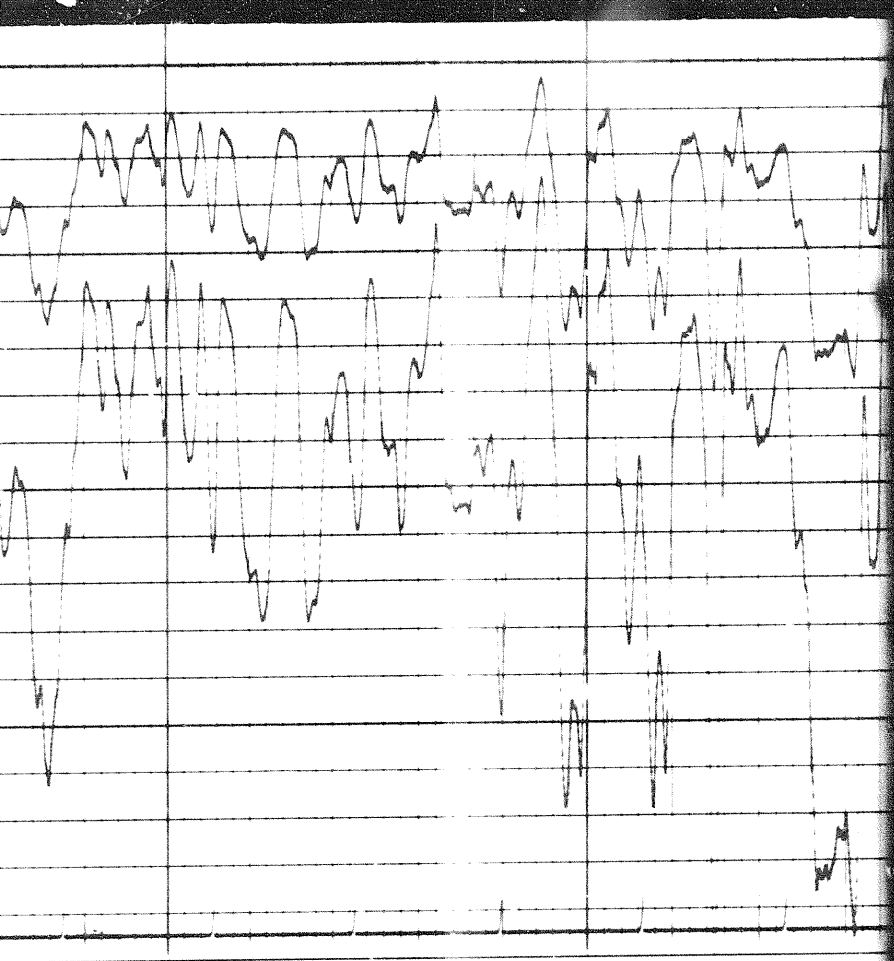
0500

0600

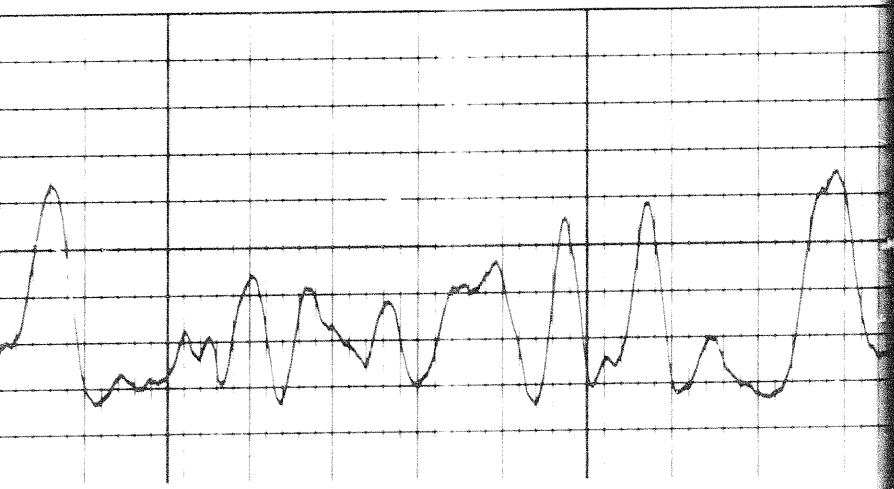
0700

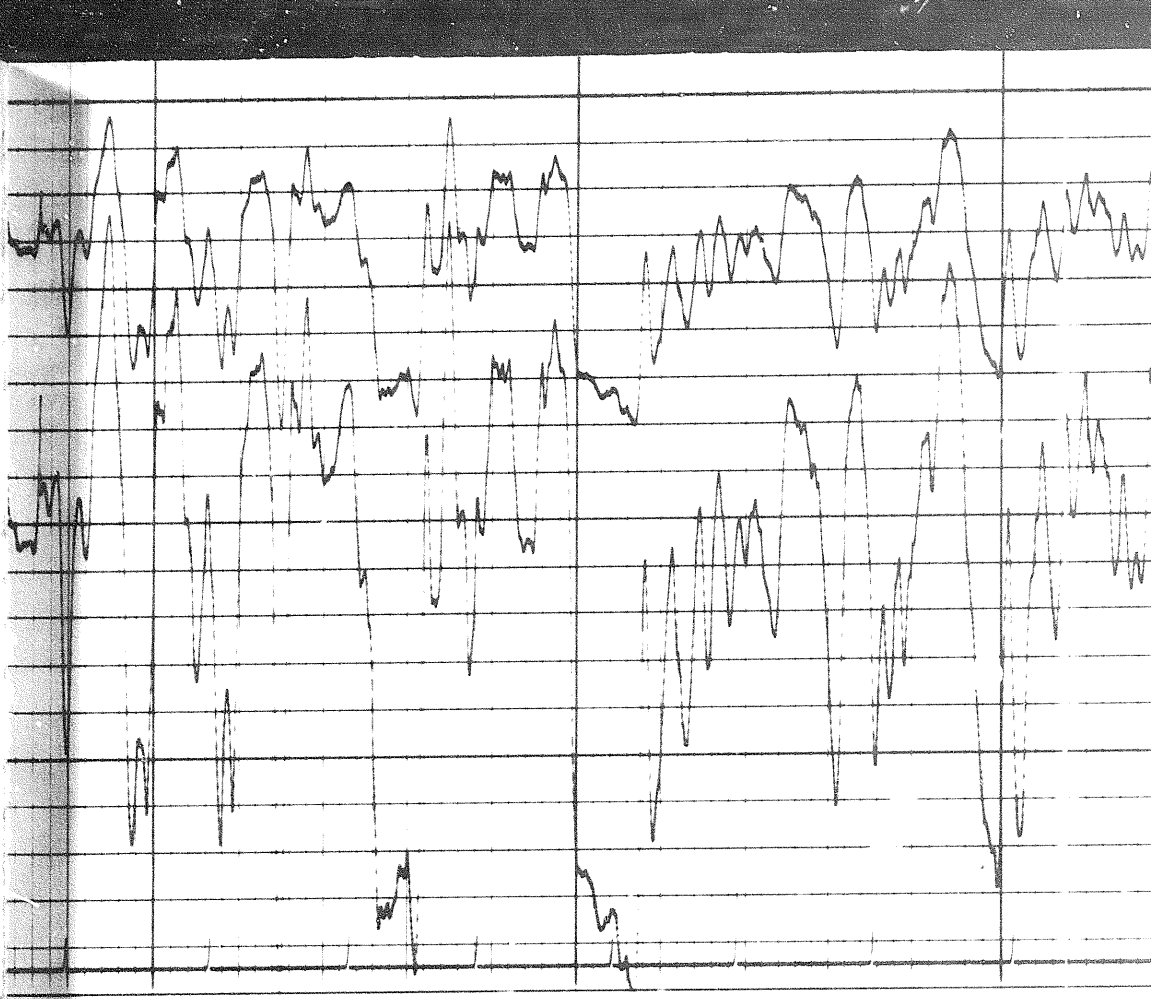

0700
0800


0011
0001
0060

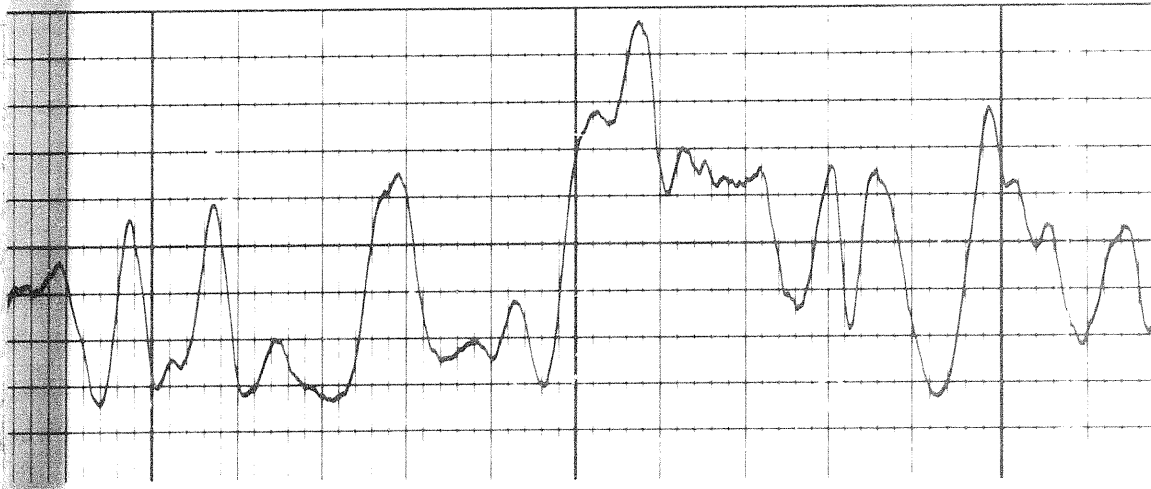


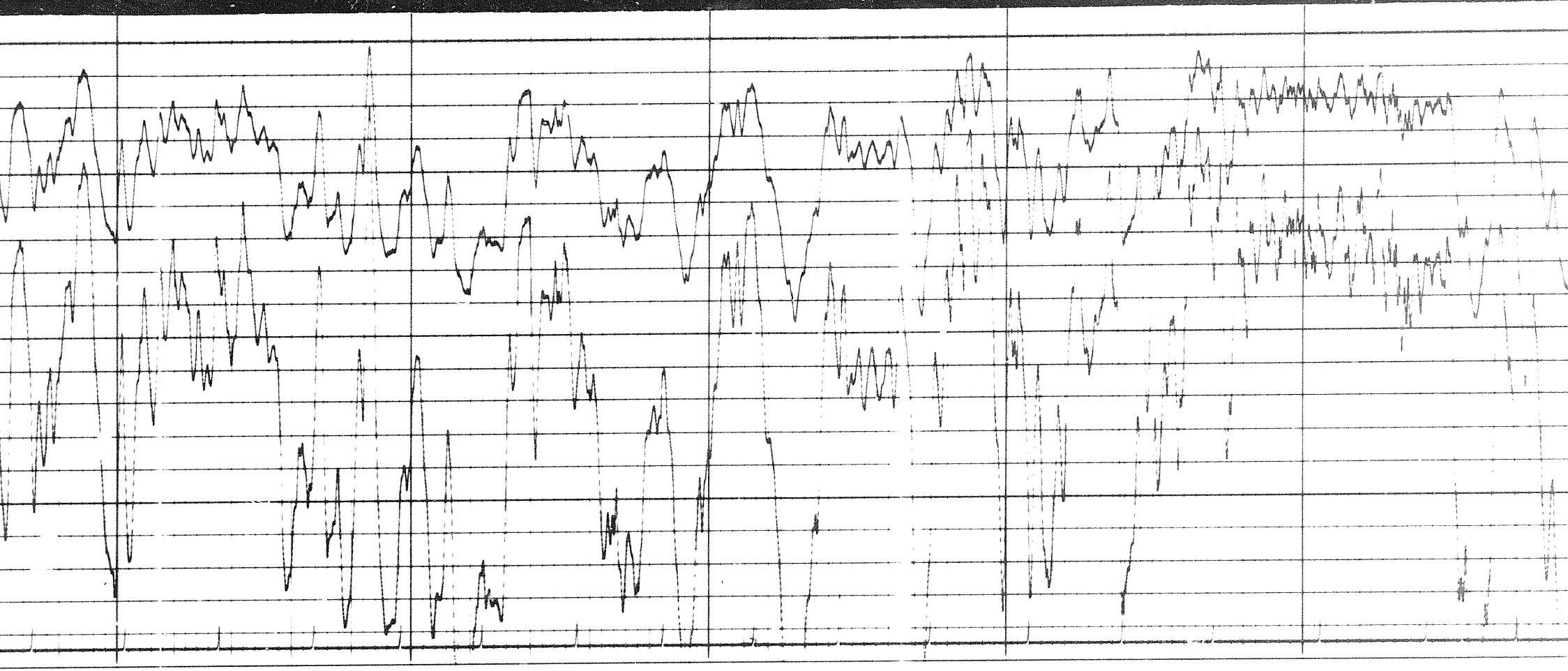
1100

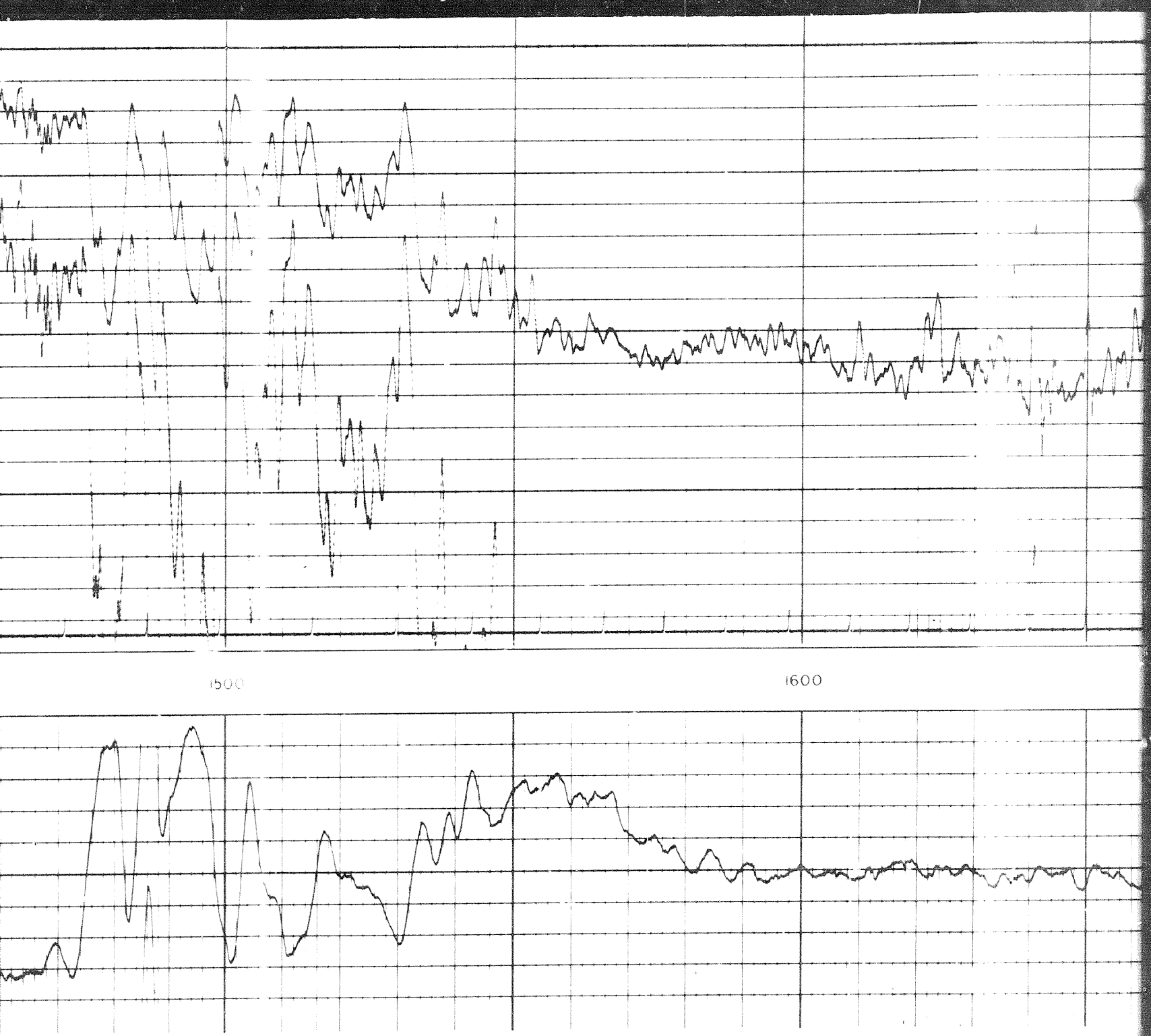


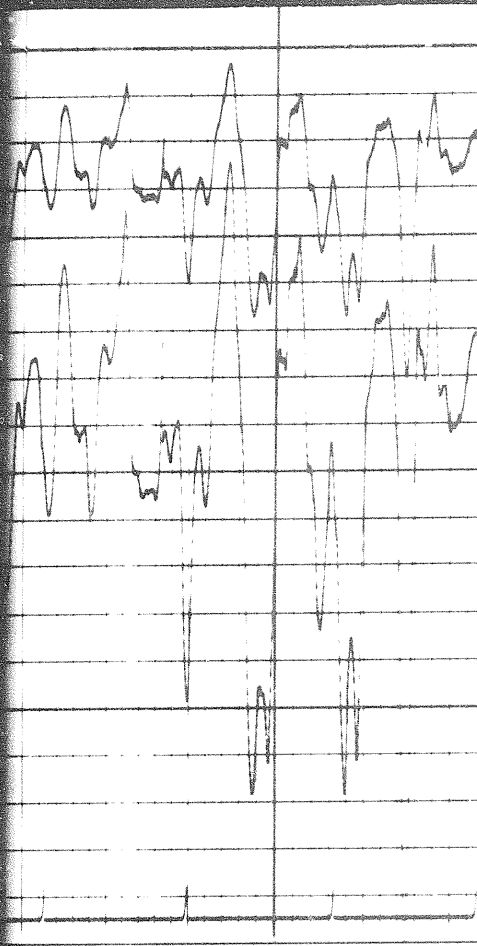


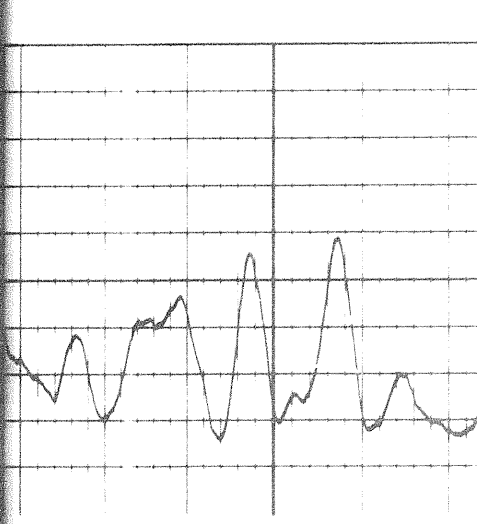
1200

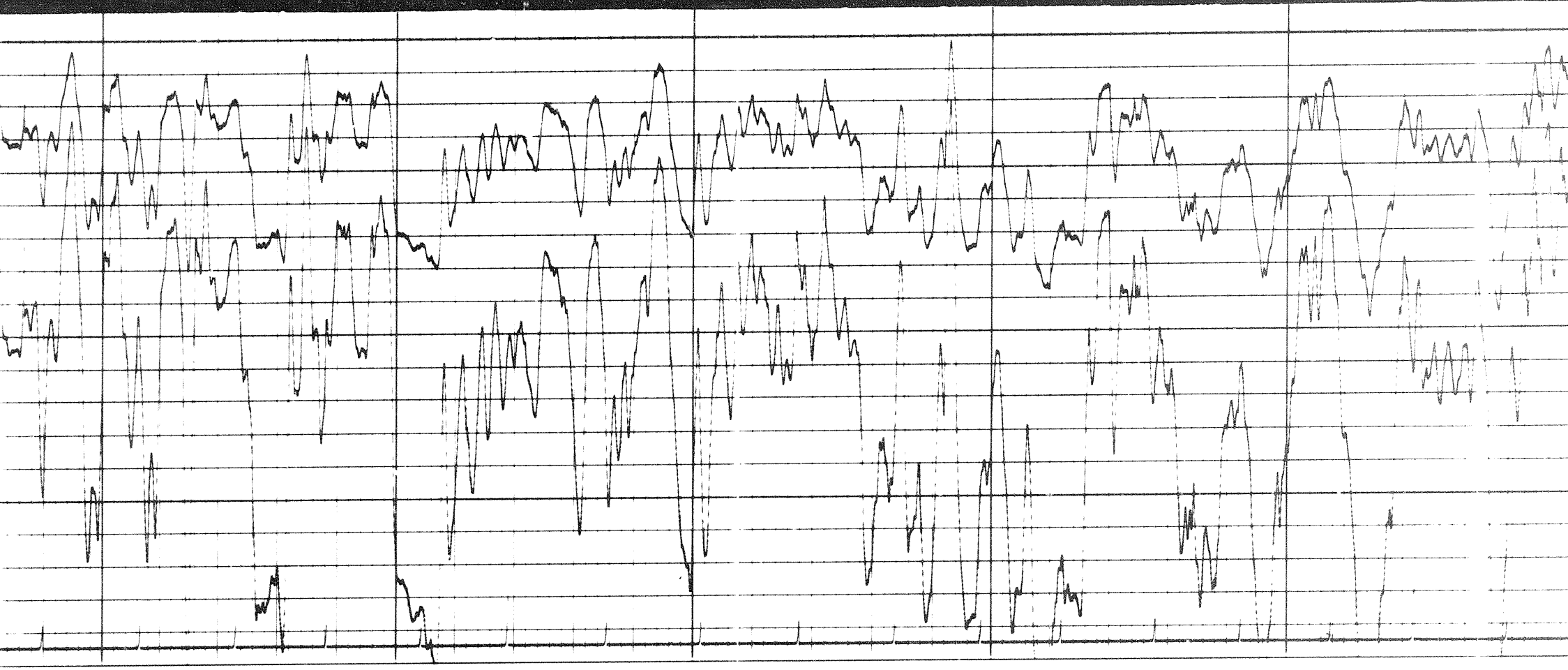


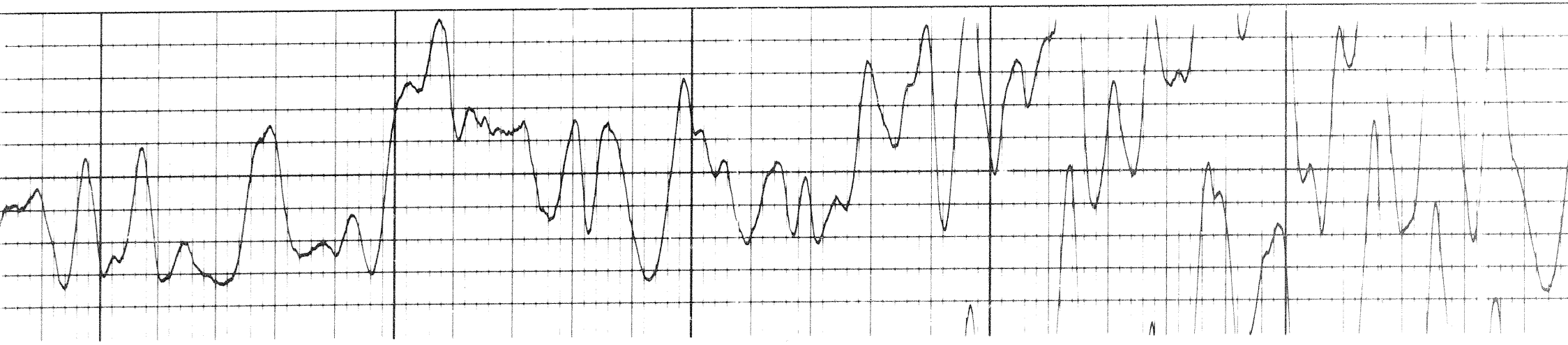

1300
1400

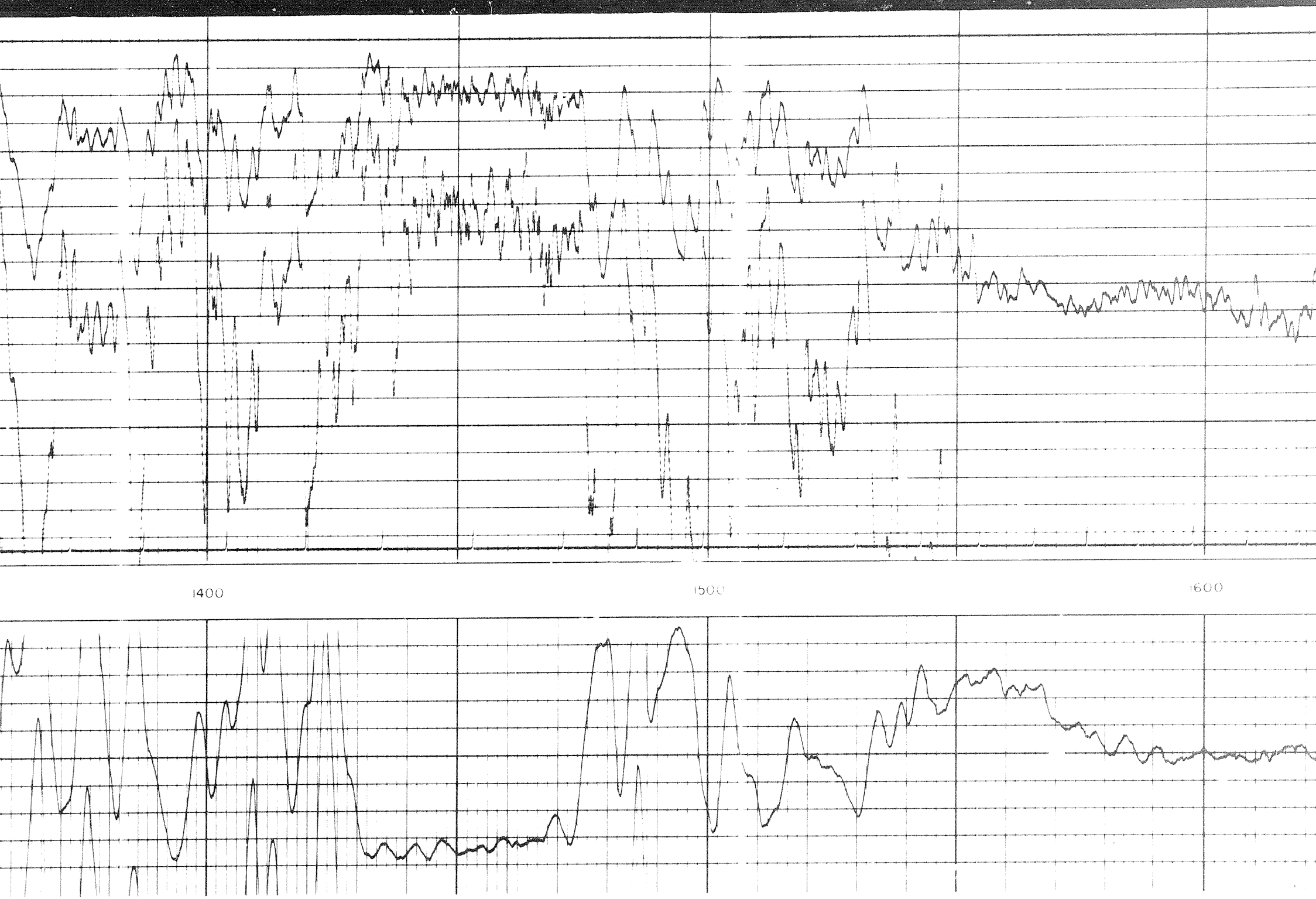

1500
1600

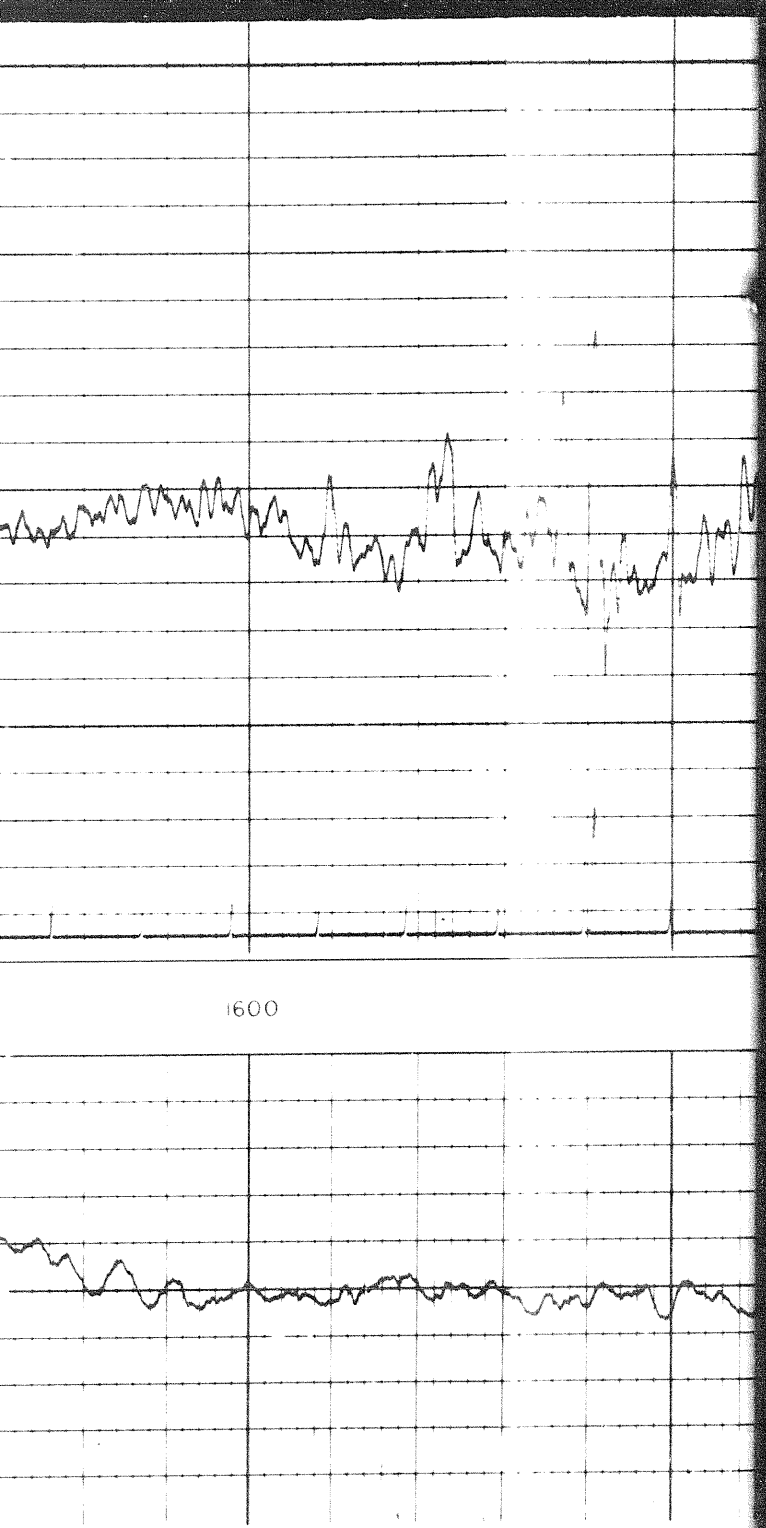


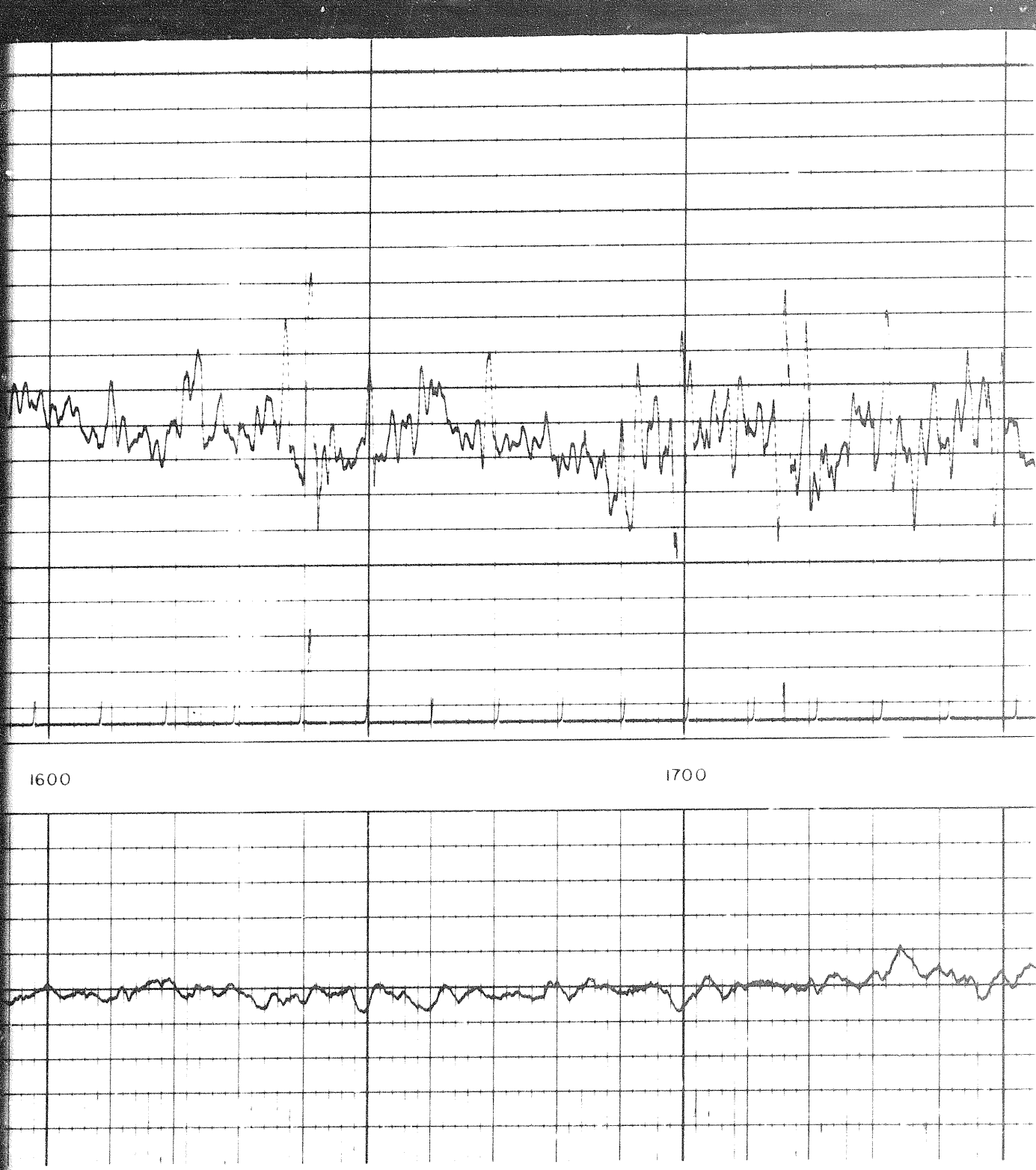


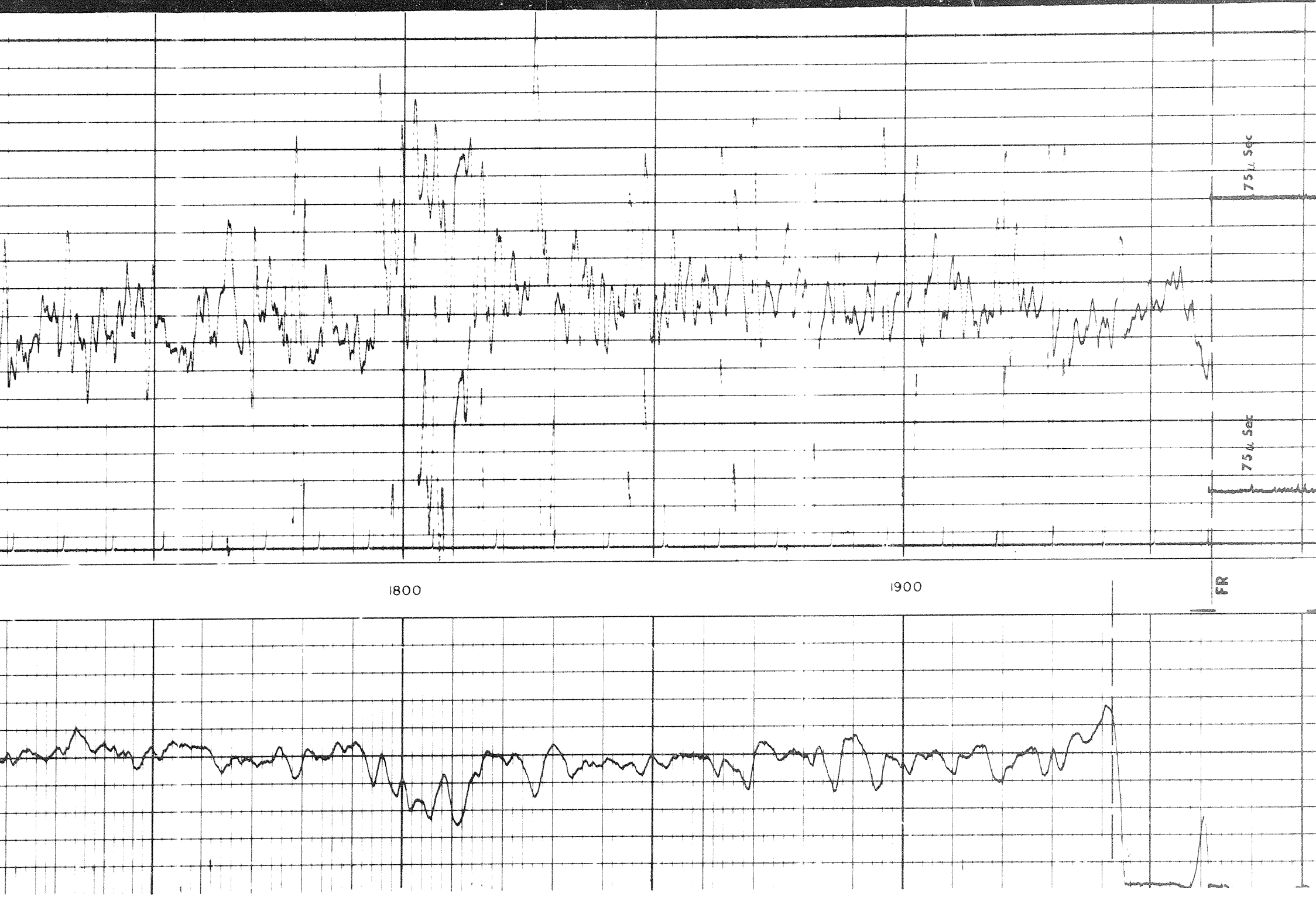

1200
1300

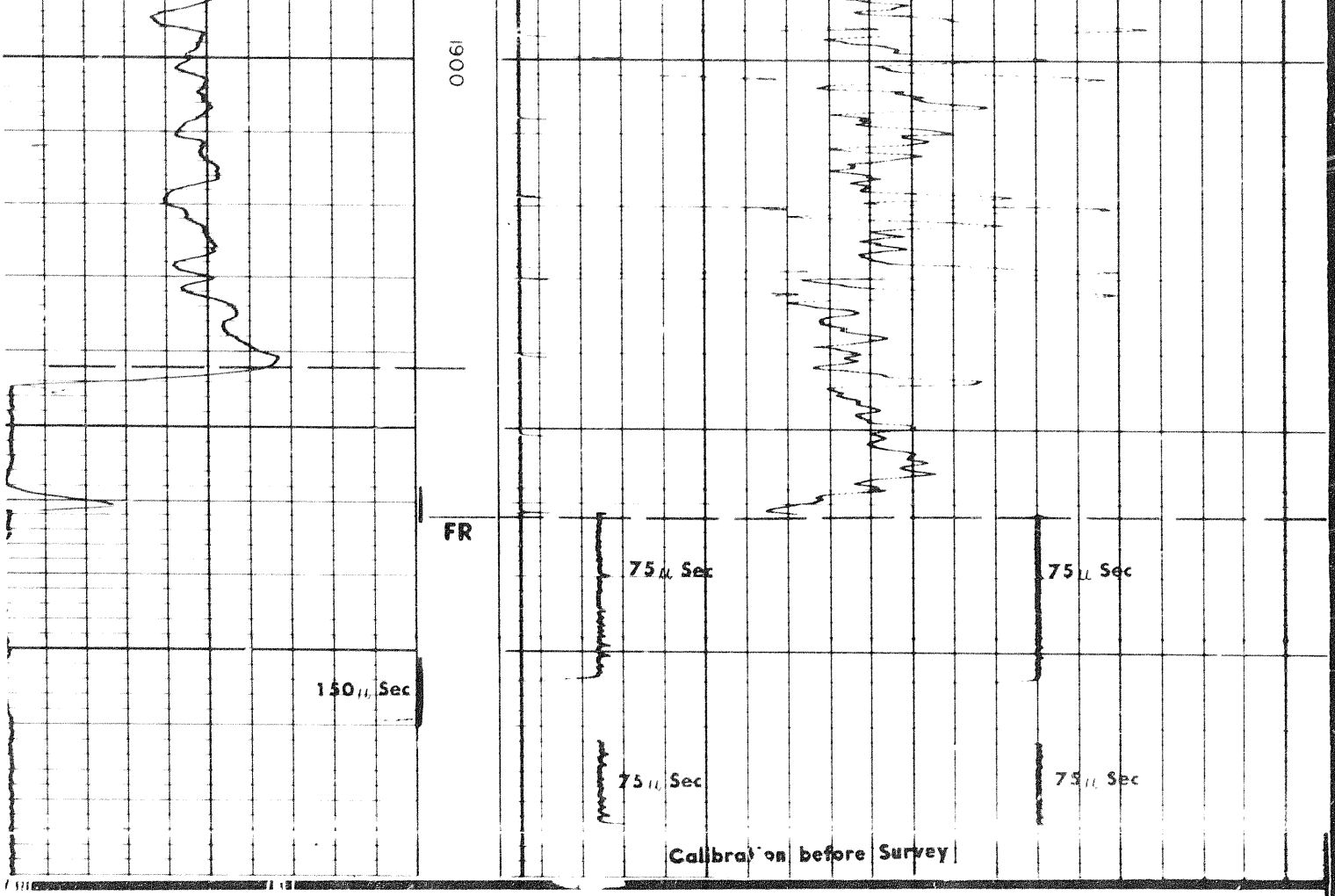



1400
1500
1600


1600


1600
1700


75 Sec
75 Sec
1800
1900
FR



DETAIL LOG

RUN #2

5" = 100'

GAMMA RAY

API UNITS

INTERVAL 4300 to 3600

Scas 300 TC 2

Logging Speed 30 ft/min

ZERO 0 div. to left

0 120

120 240

INTERVAL ____ to ____

Scas ____ TC ____

Logging Speed ____ ft/min

ZERO ____ div. to left

SONIC

T

R

R

Spacing 3'

Pickup Spac 3'

SONIC RUN ON HIGH BIAS

90 VOLTS

INTERVAL TRANSIT TIME

microseconds per foot

Increases

140 90 40

80 60 40

Calibration after Survey

75 μ Sec

75 μ Sec

50 μ Sec

75 μ Sec

INTERVAL _____ to _____

Sens. _____ T.C. _____

Logging Speed _____ ft./min.

ZERO _____ div. to left

← Increases

140	90	40
80	60	40

Calibration after Survey

75 μ Sec

75 μ Sec

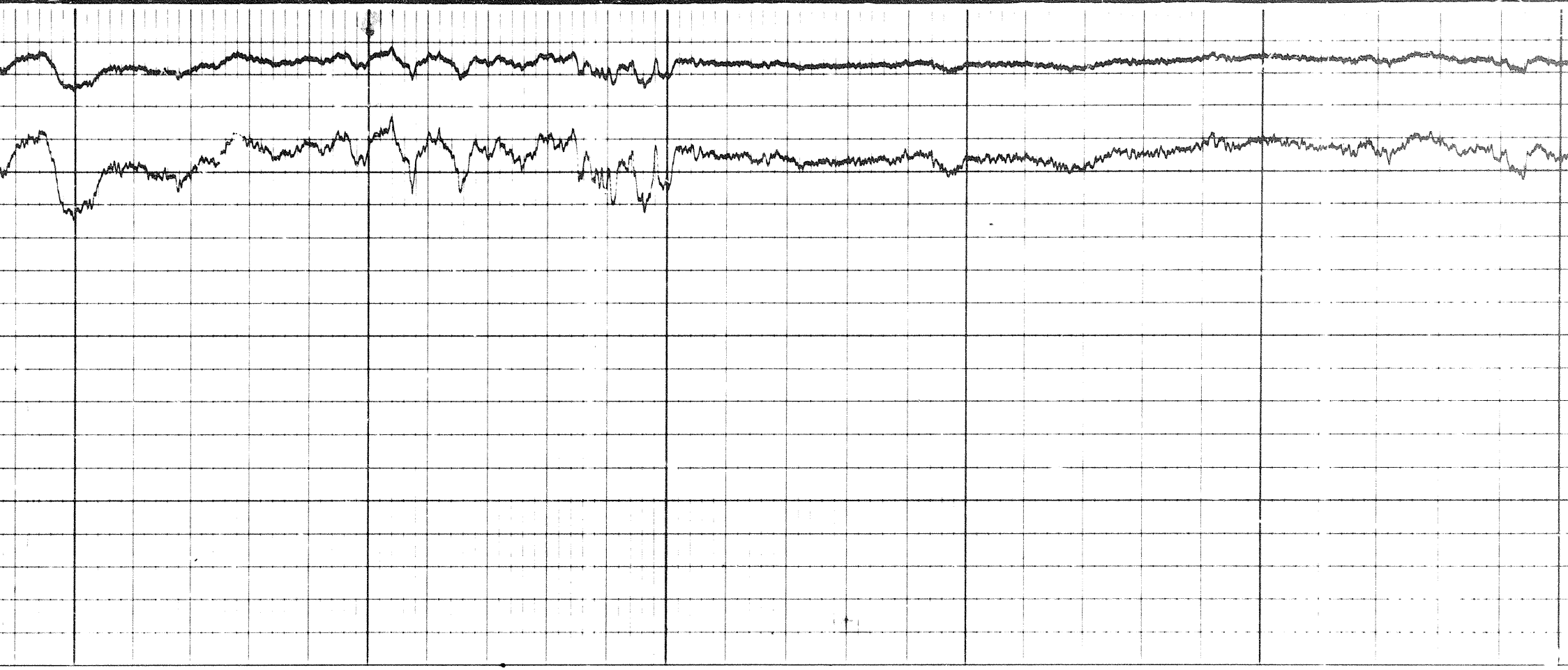
50 μ Sec

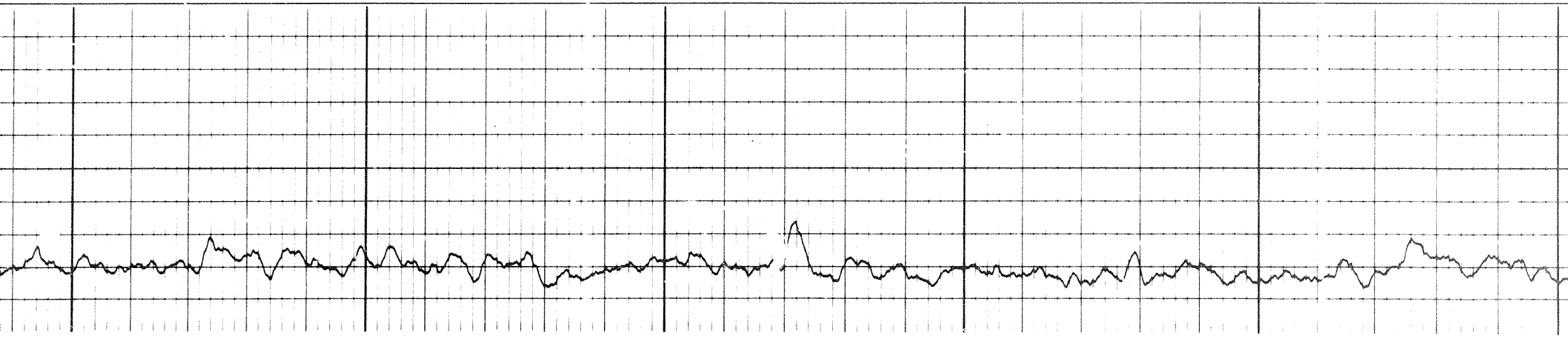
75 μ Sec

GR

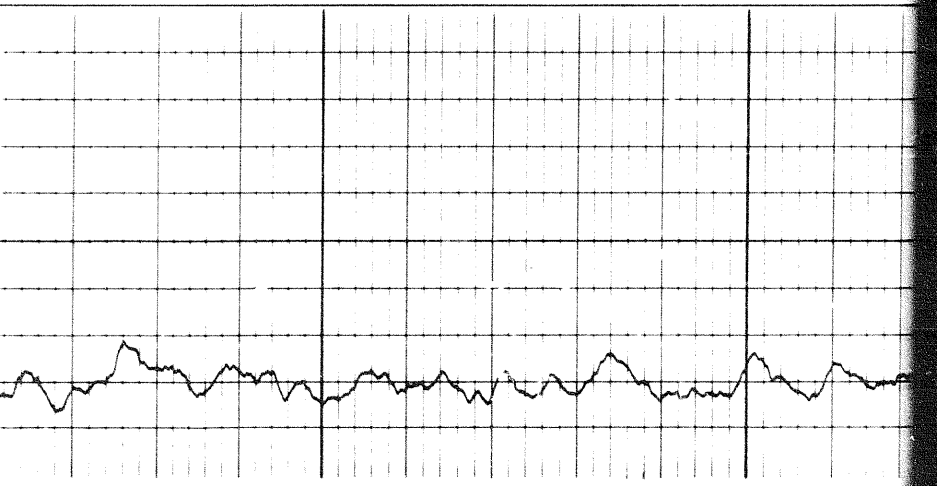
3600

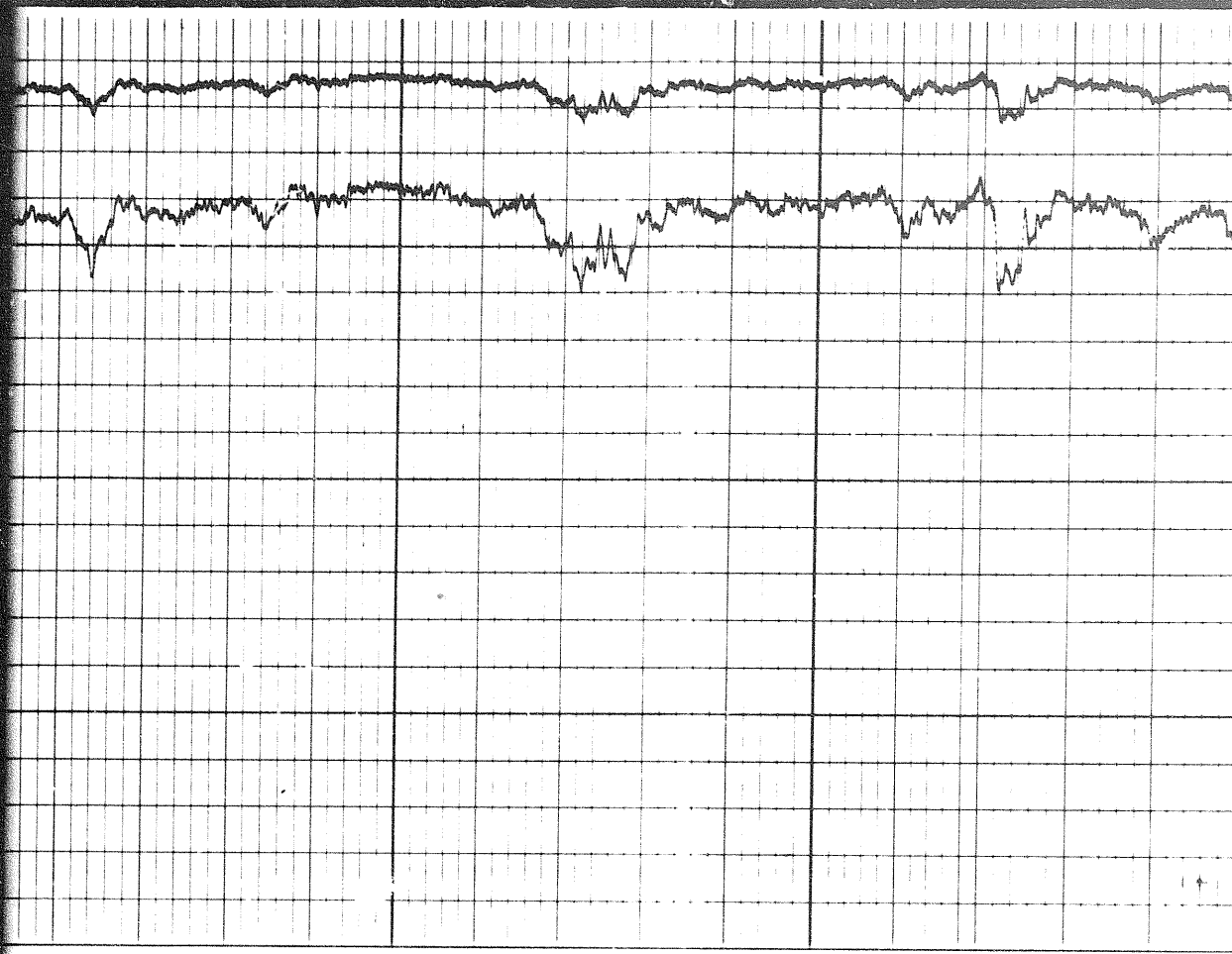
3700


3800
3900
400

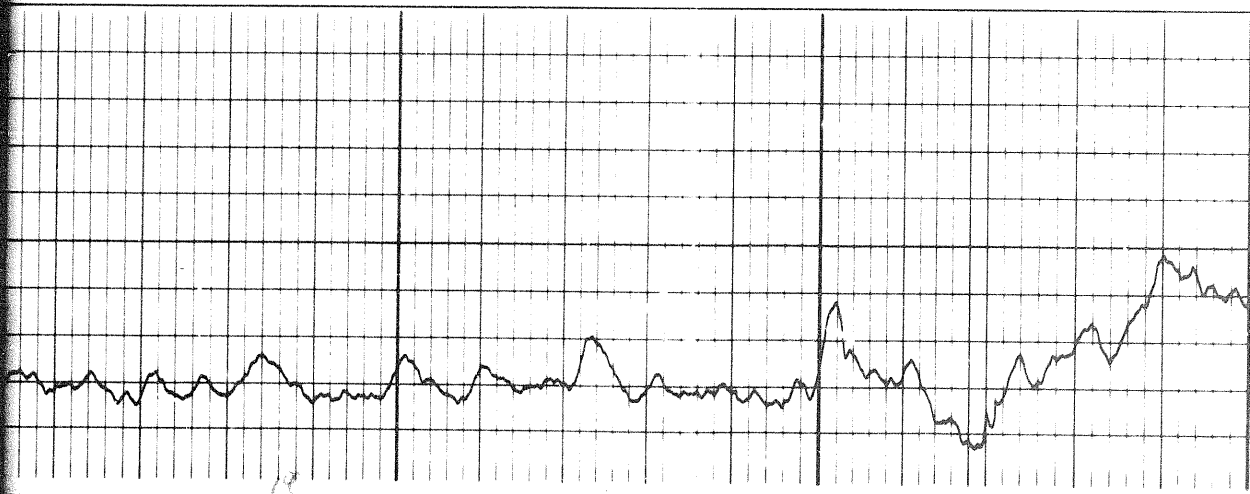


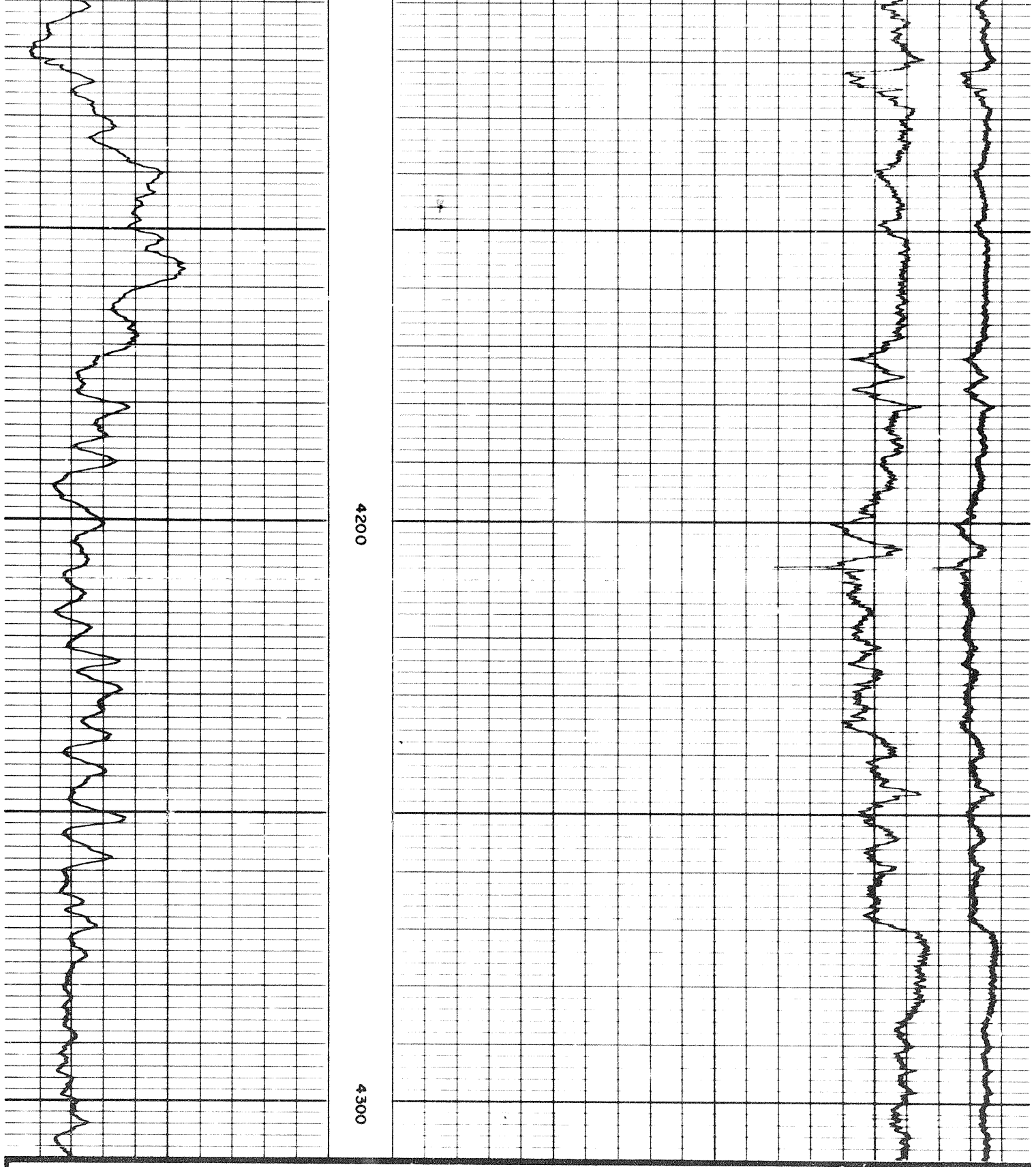
4000





4100





DETAIL LOG

RUN #3

5" = 100'

GAMMA RAY

API UNITS

INTERVAL 5303 to 13175

Sens 300 T.C. 1

Logging Speed 50 ft./min.

ZERO 0 div. to left

0 120

120 240

INTERVAL _____ to _____

Sens _____ T.C. _____

SONIC

T

R

R

Spacing 3'

Pickup Span 3'

INTERVAL TRANSIT TIME

microseconds per foot

◄ _____ Increases

INTERVAL 5303 to 13175

Sens. 300 T.C. 1

Logging Speed 50 ft./min.

ZERO 0 div. to left

0 120

120 240

INTERVAL _____ to _____

Sens. _____ T.C. _____

Logging Speed _____ ft./min.

ZERO _____ div. to left

T

R

R

Spacing 3'

Pickup Span 3'

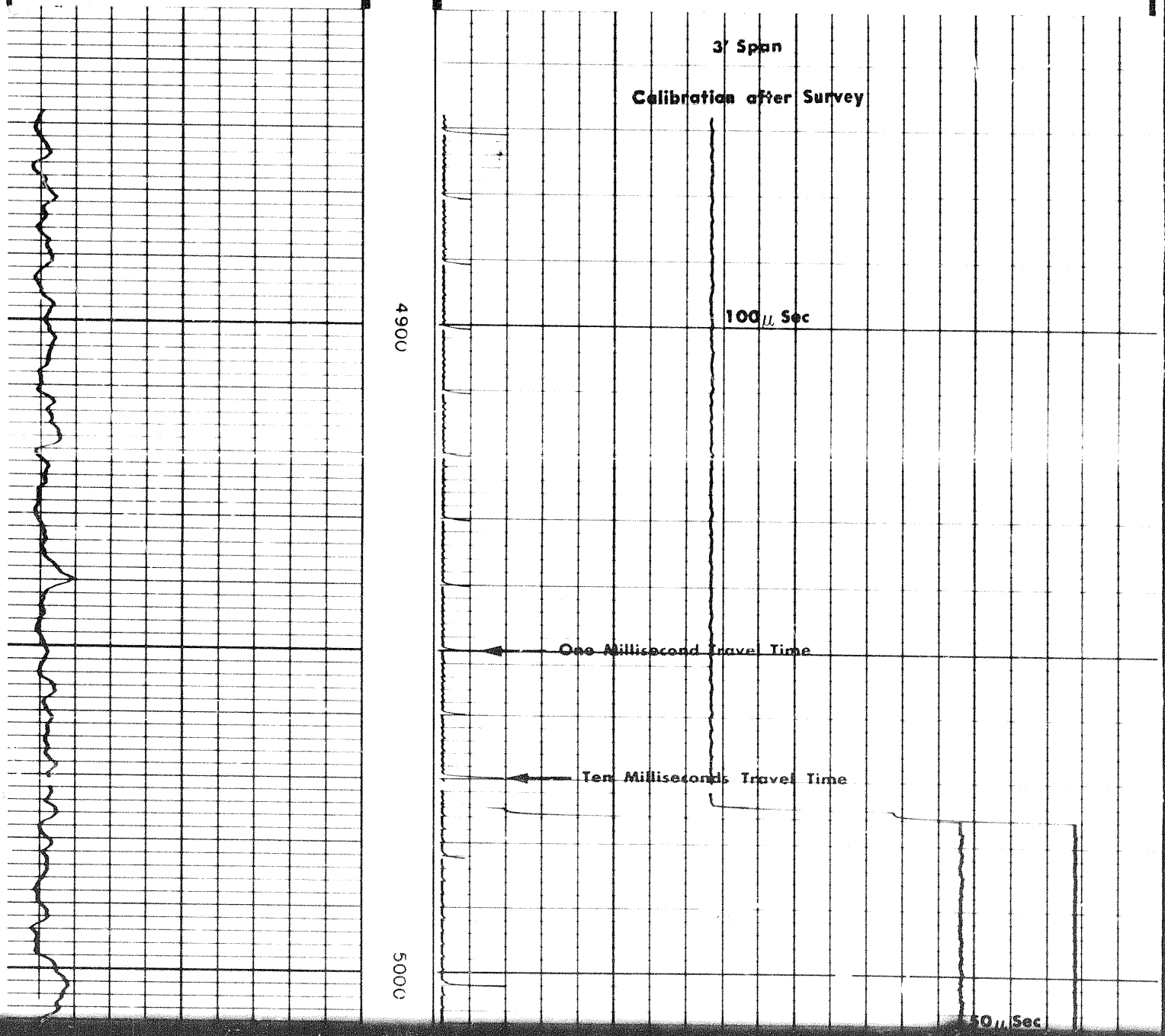
INTERVAL TRANSIT TIME

microseconds per foot

← Increases

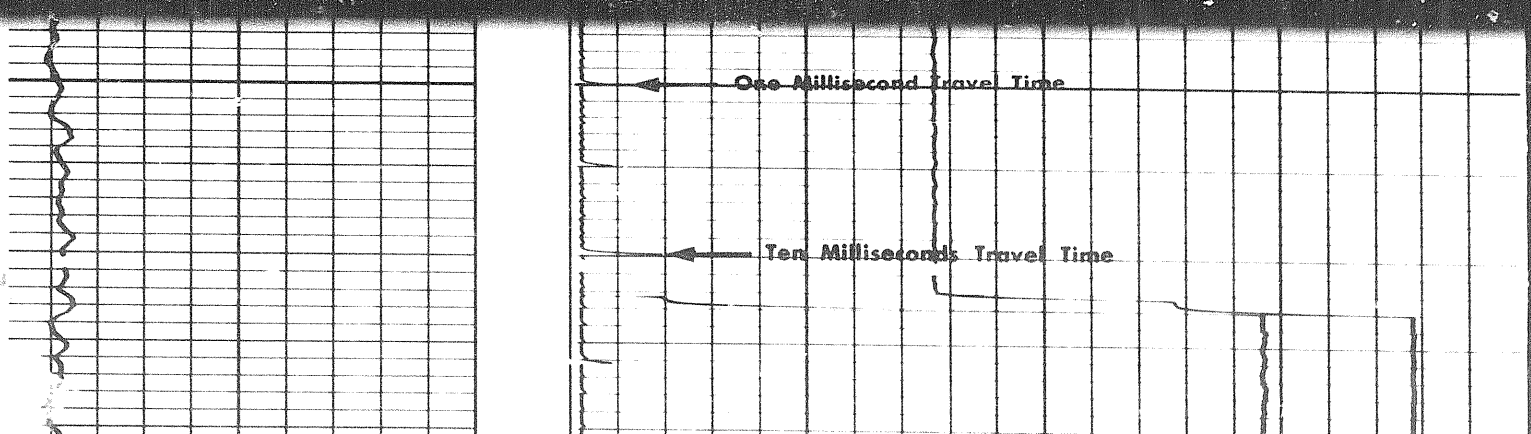
140 90 40

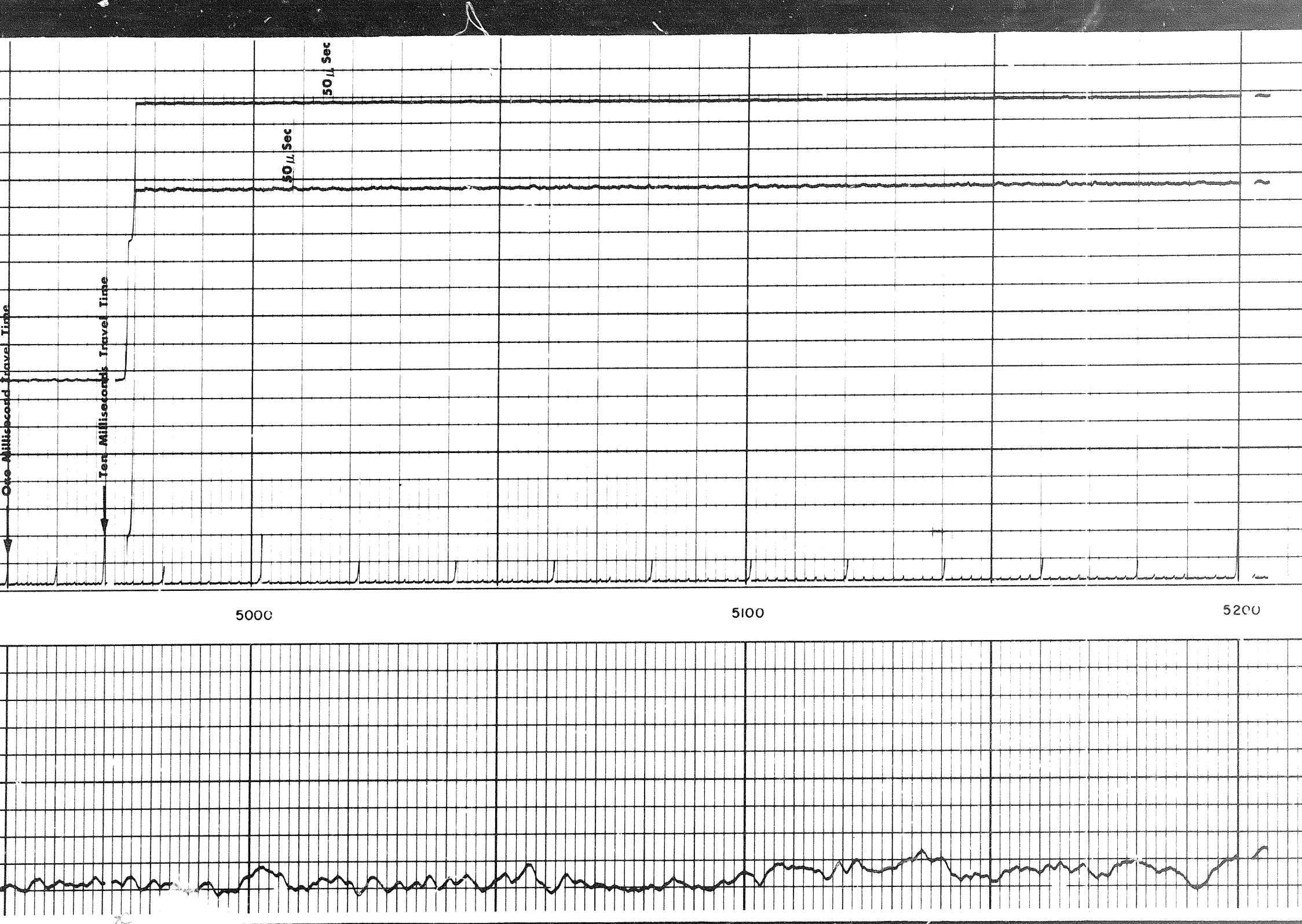
80 60 40

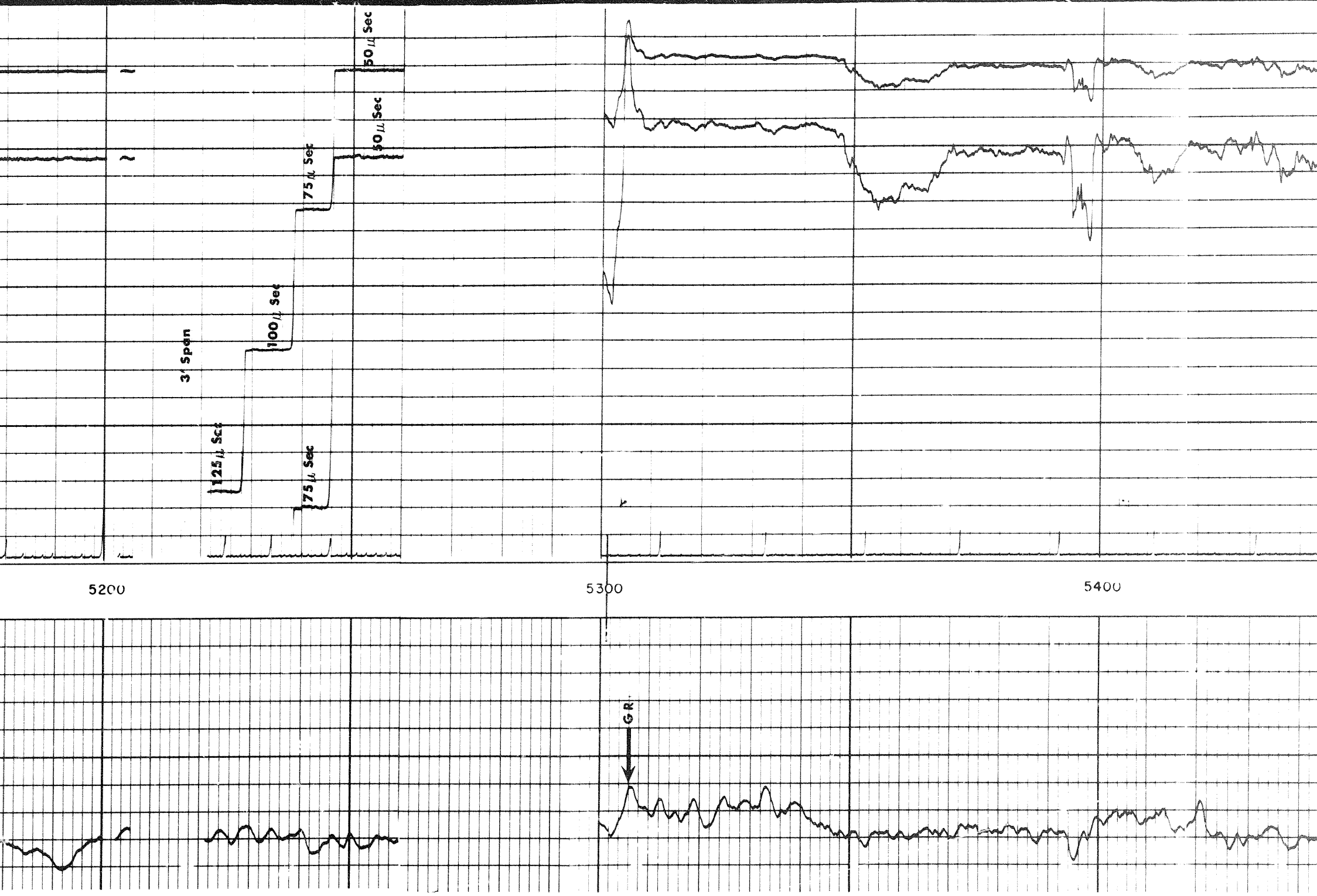


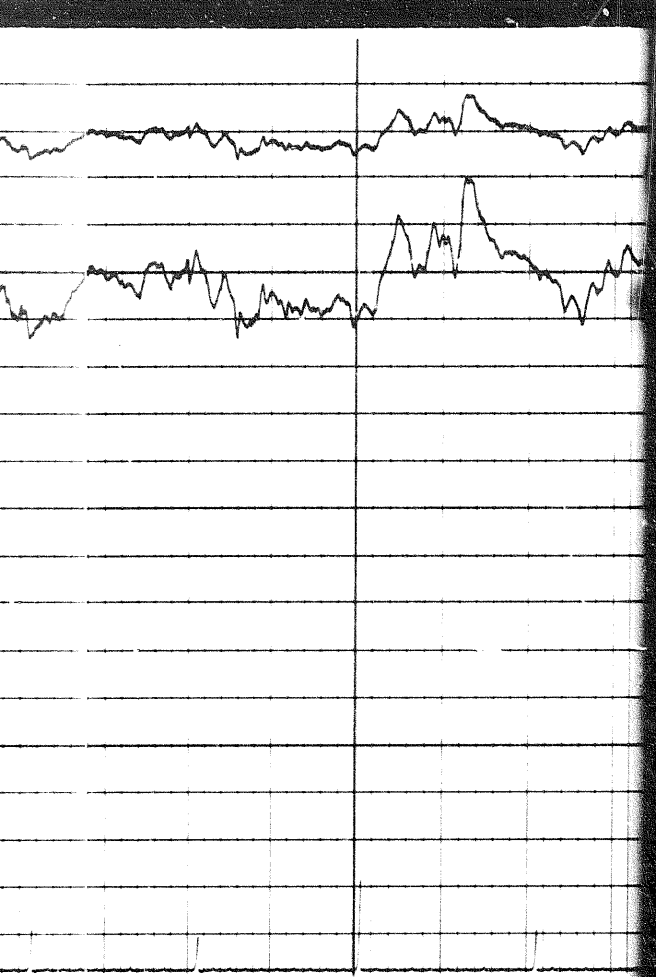
4900

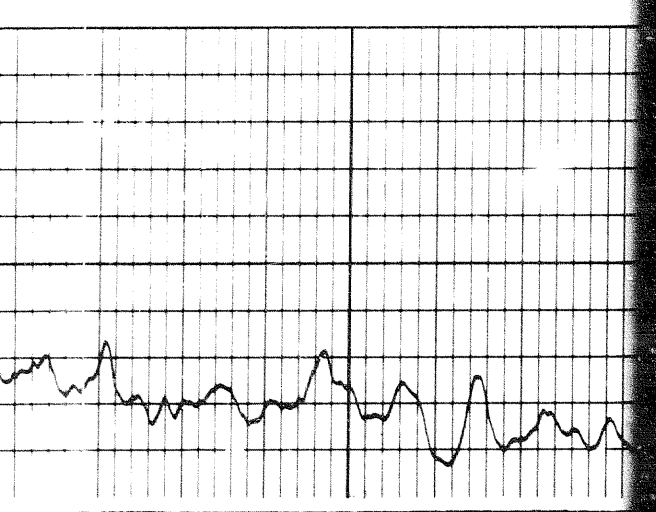
5000

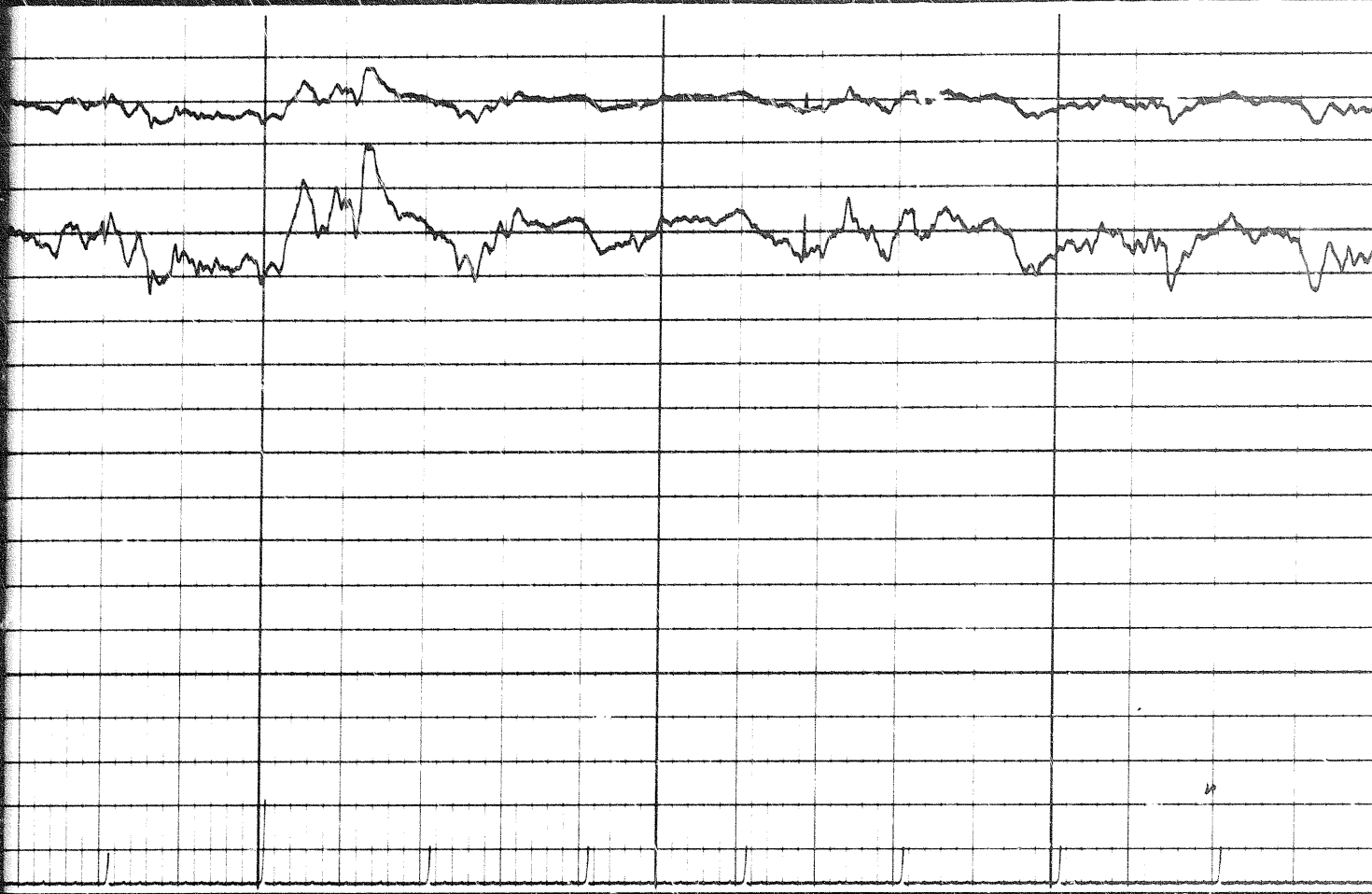



50 Sec
50 Sec
One Millisecond Travel Time
Ten Milliseconds Travel Time
5000
5100
5200

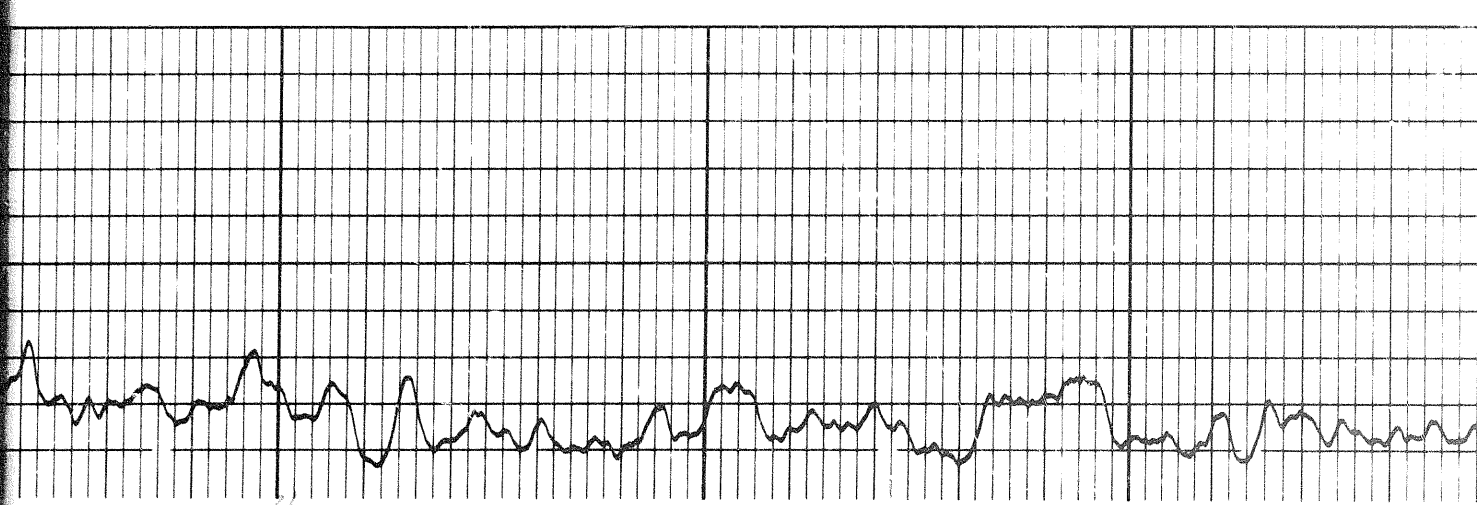

50 μ Sec
50 μ Sec
75 μ Sec
100 μ Sec
3' Span
125 μ Sec
75 μ Sec
5200
5300
5400
G R

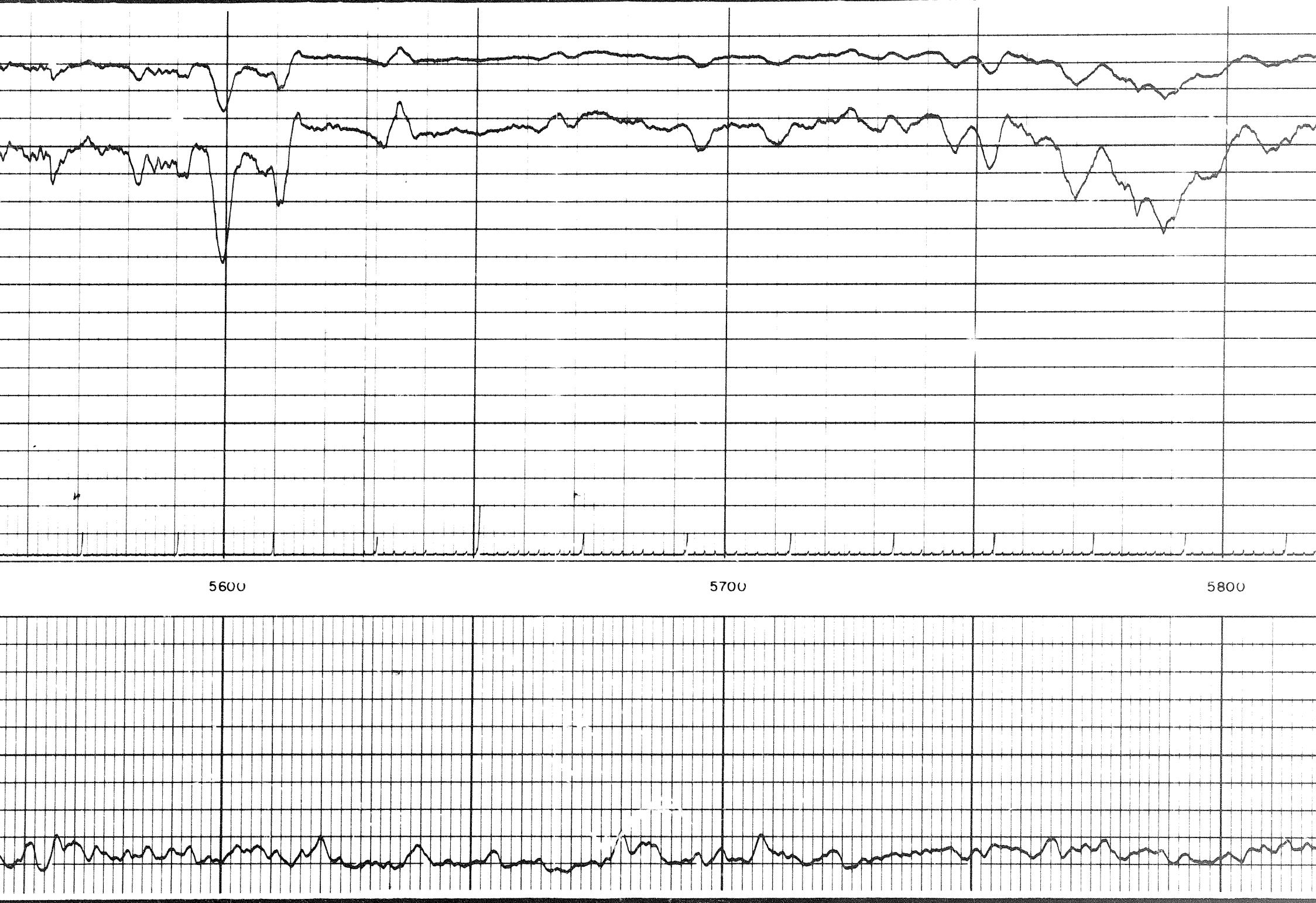


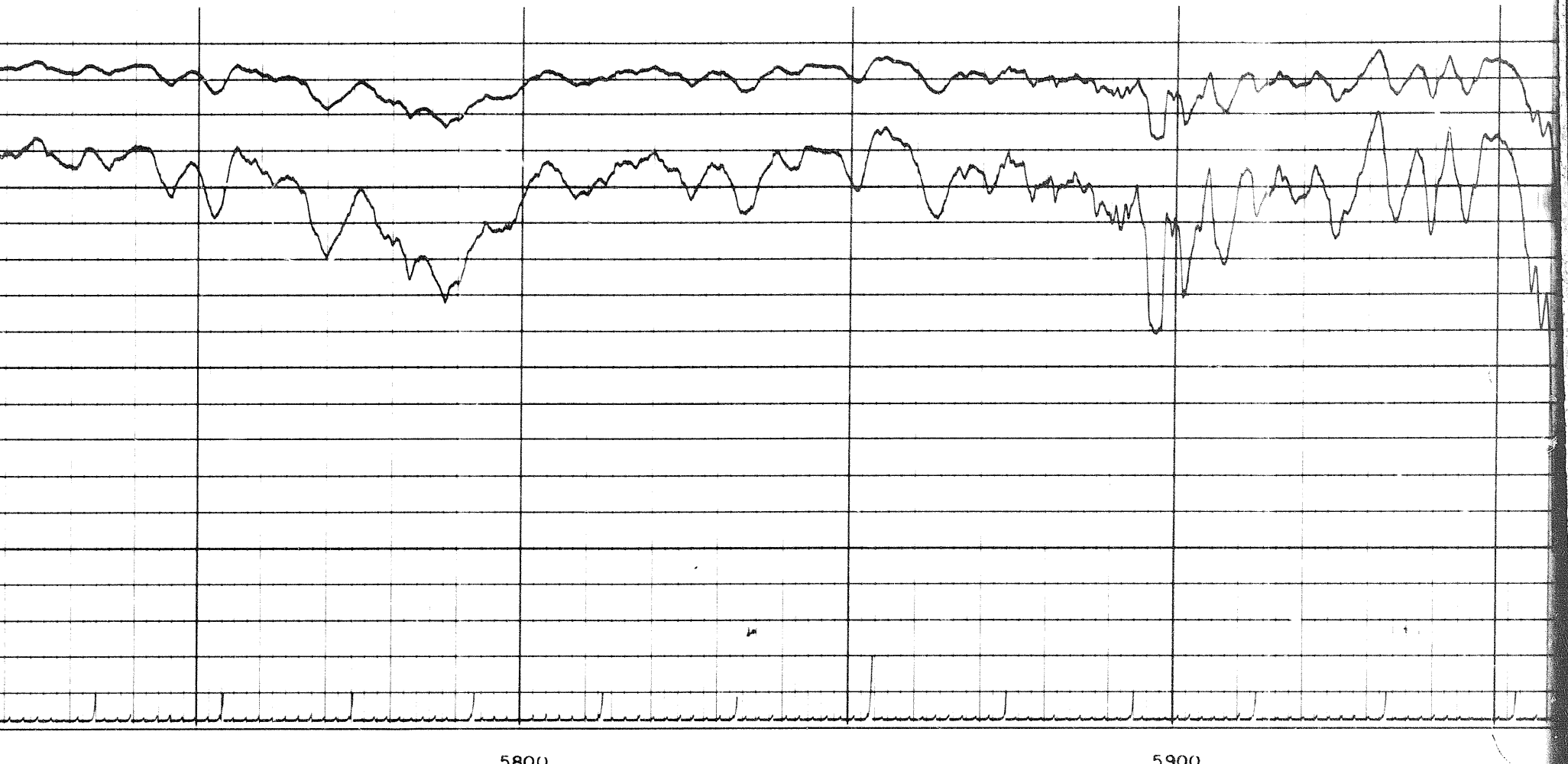


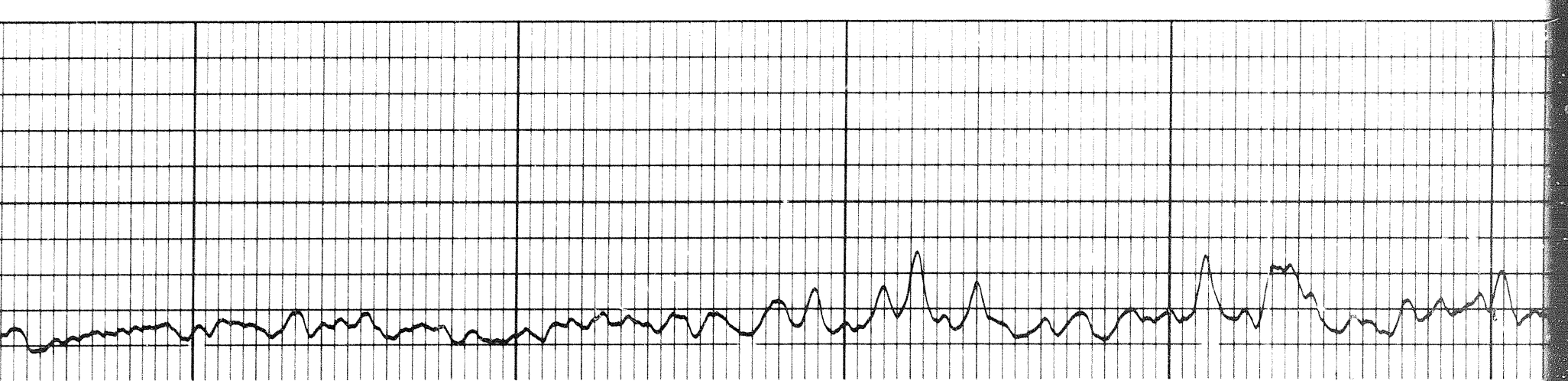


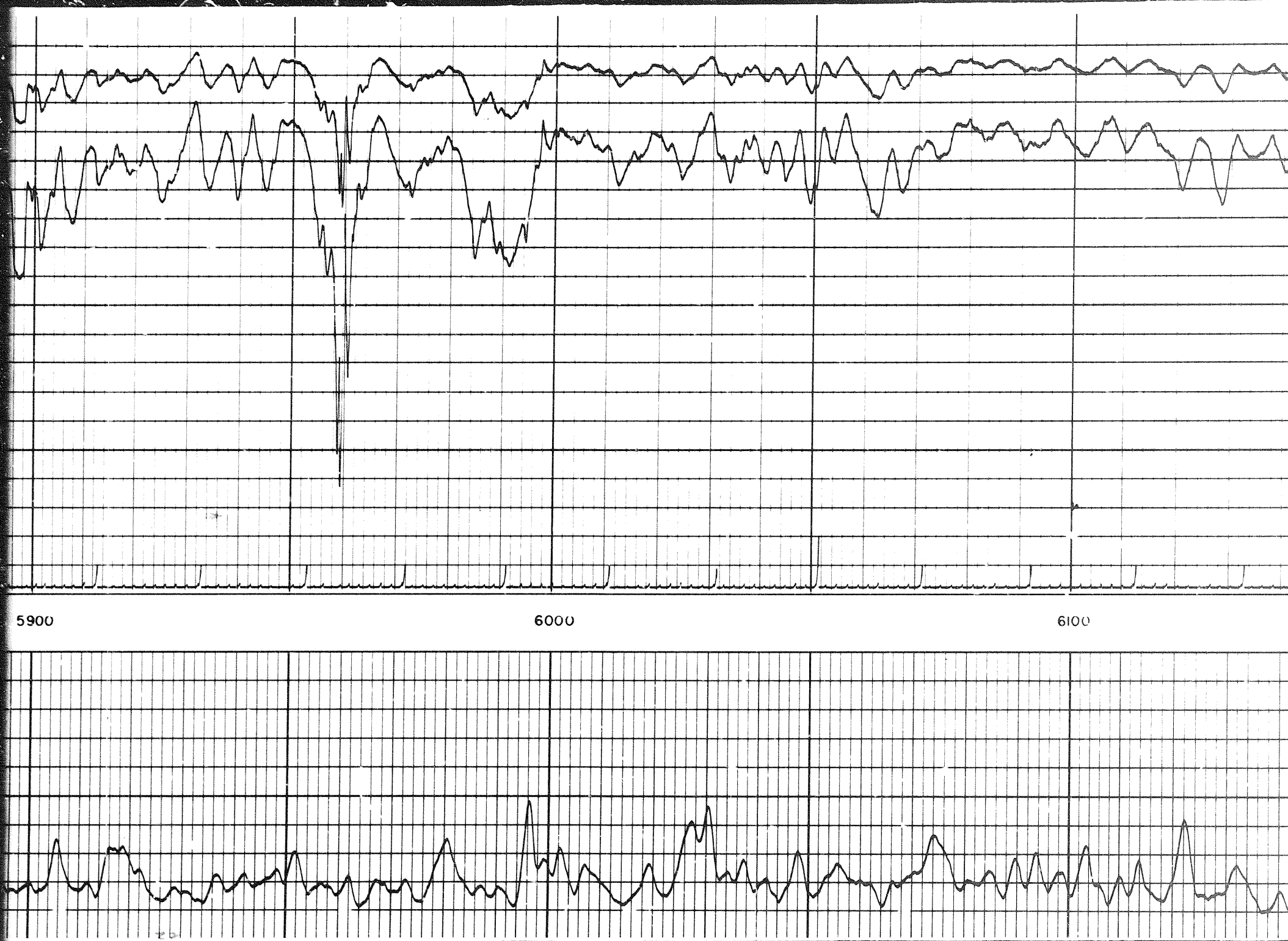
5500

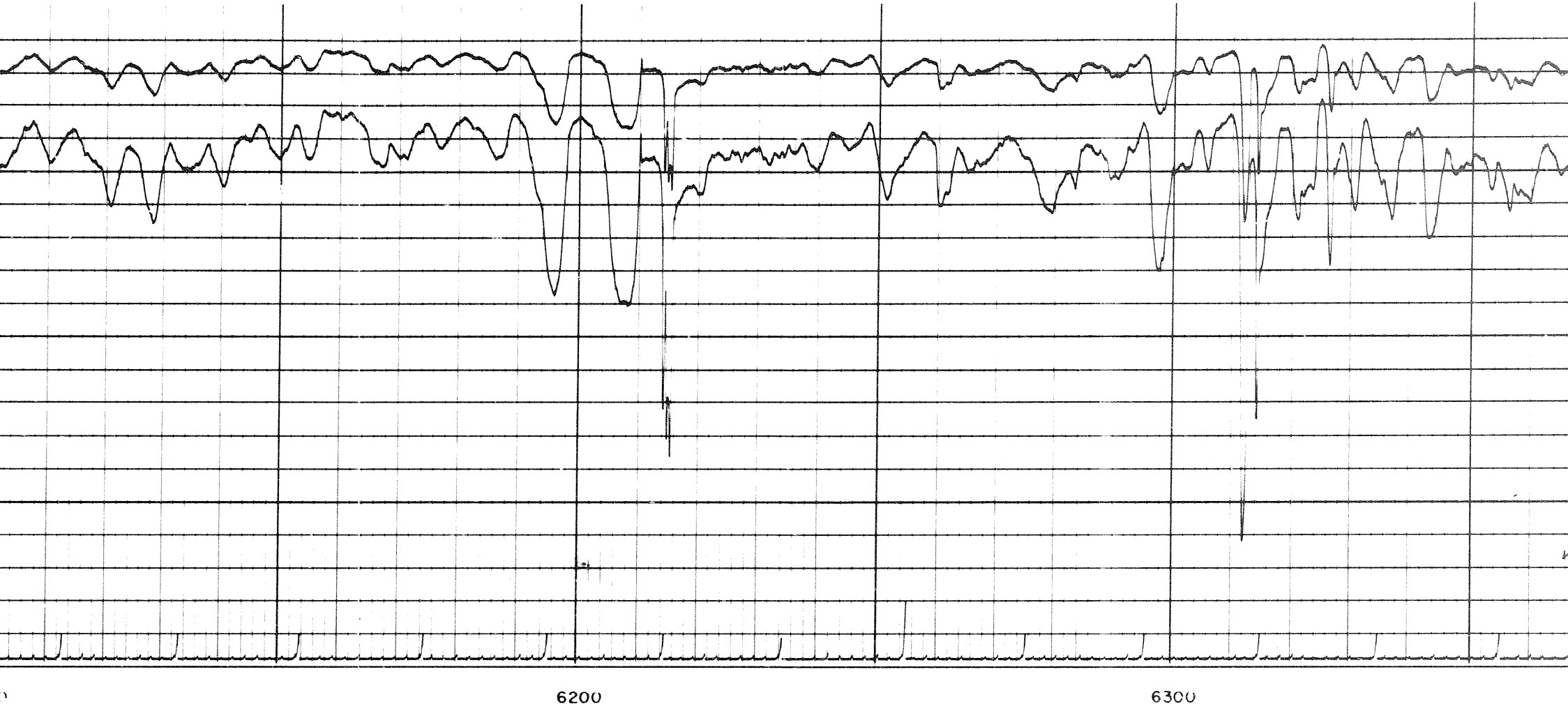


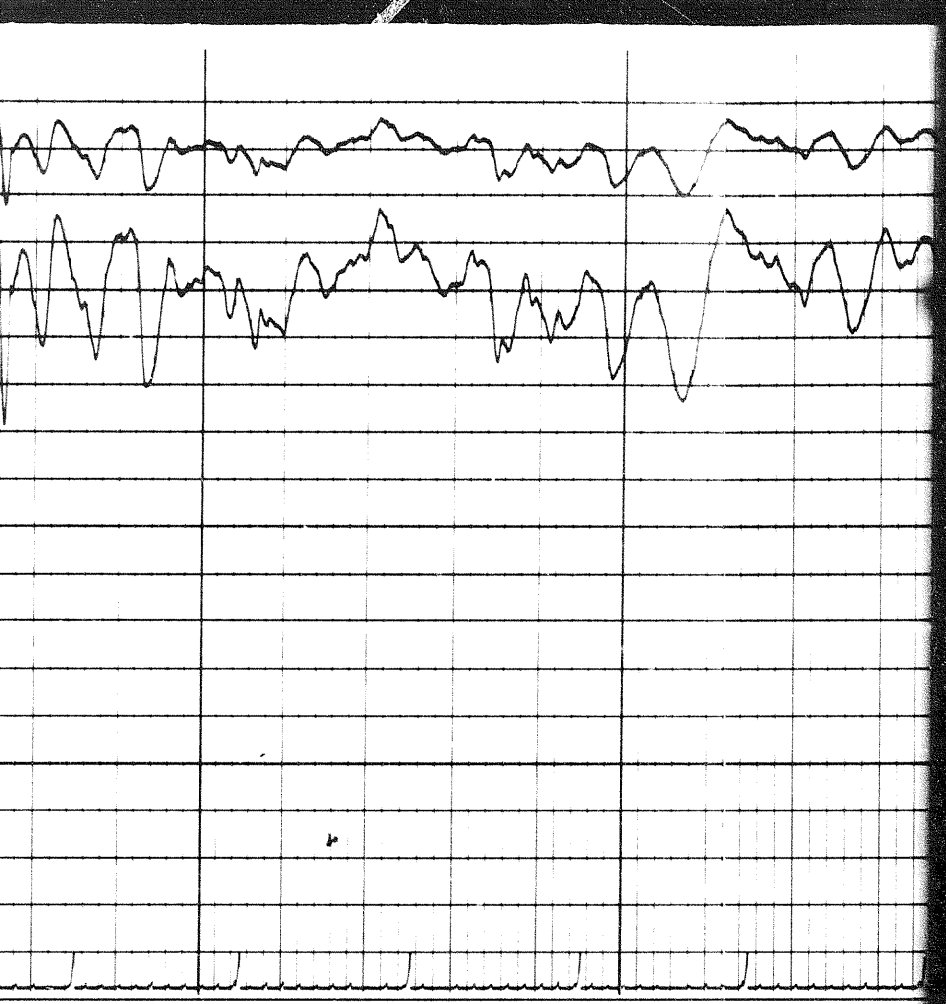

5600
5700
5800


5800
5900

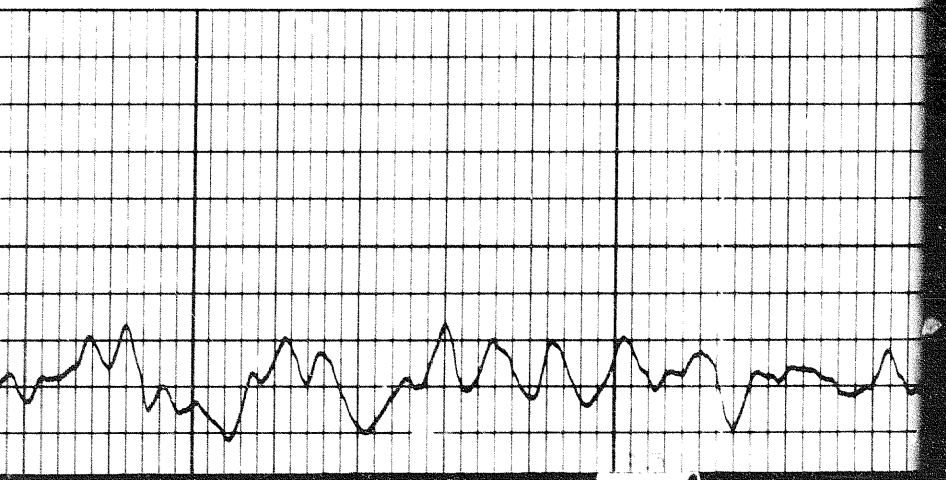


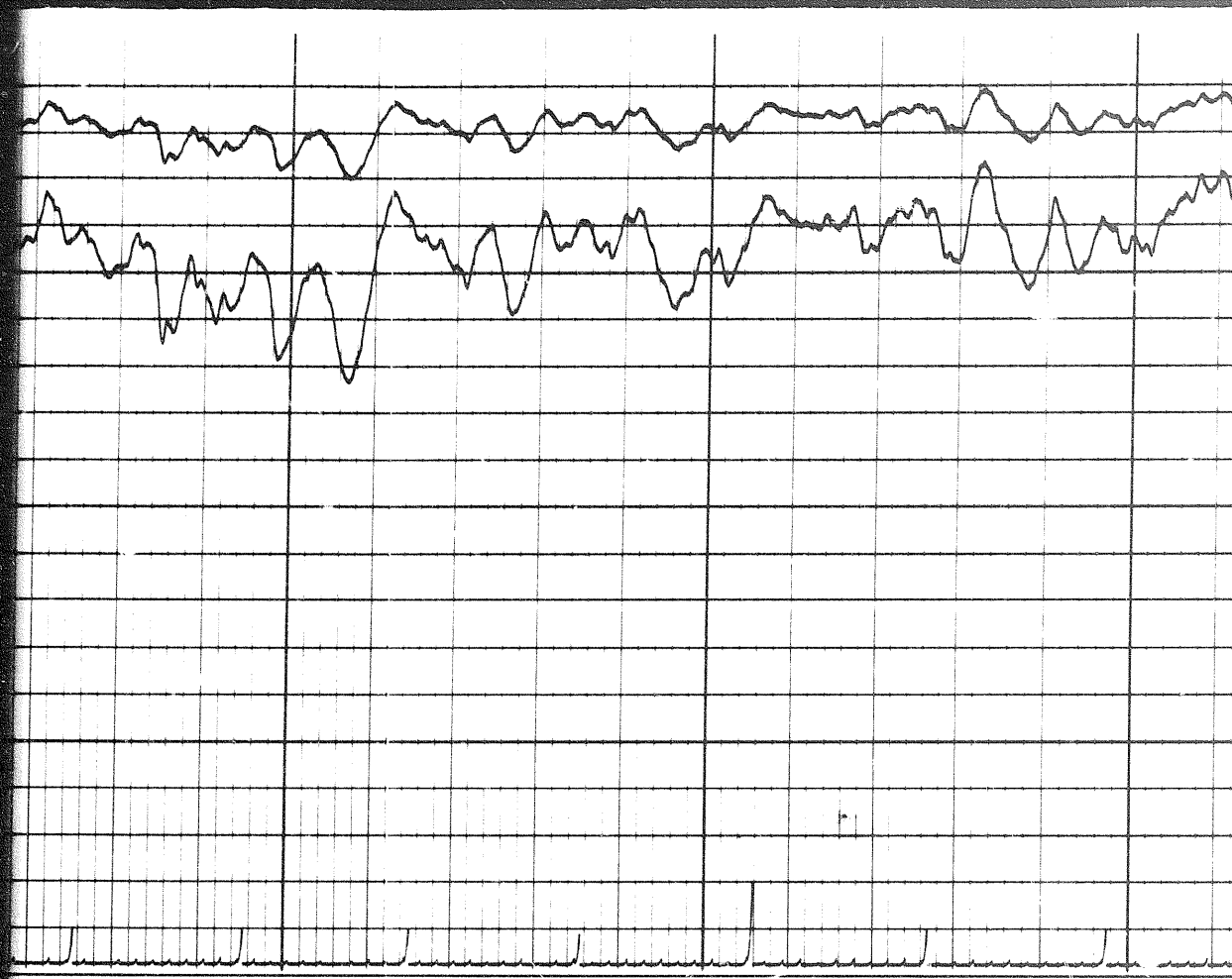

5900
6000
6100


6200
6300



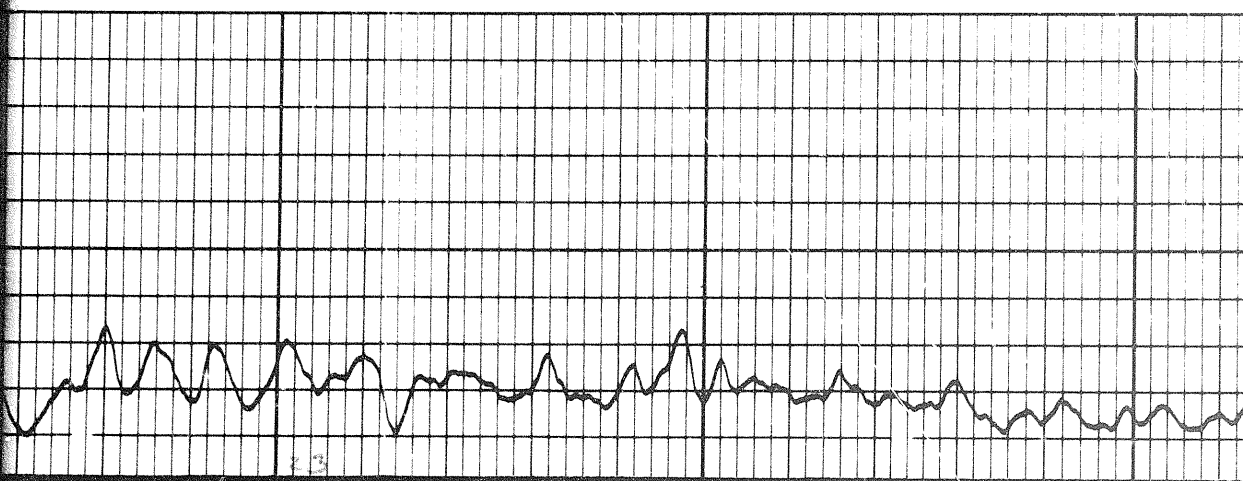
6400

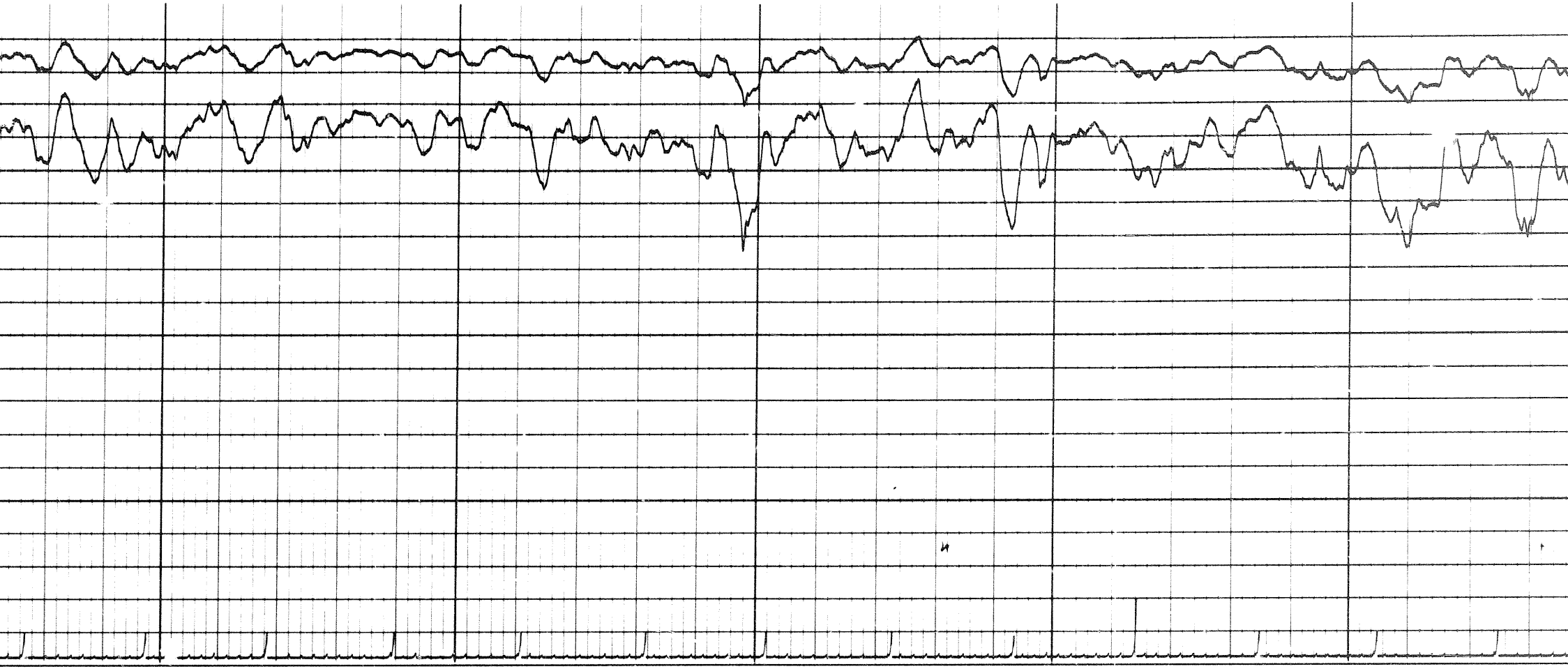


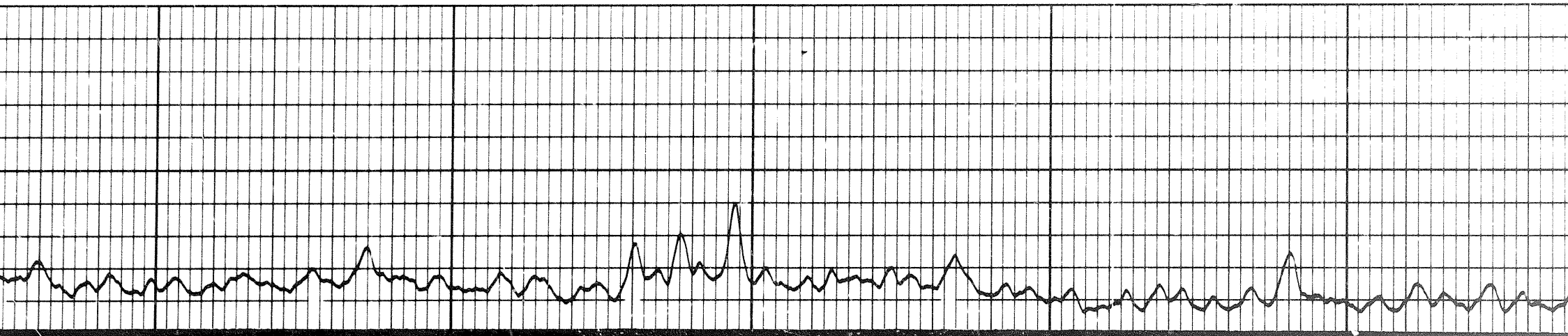


6400

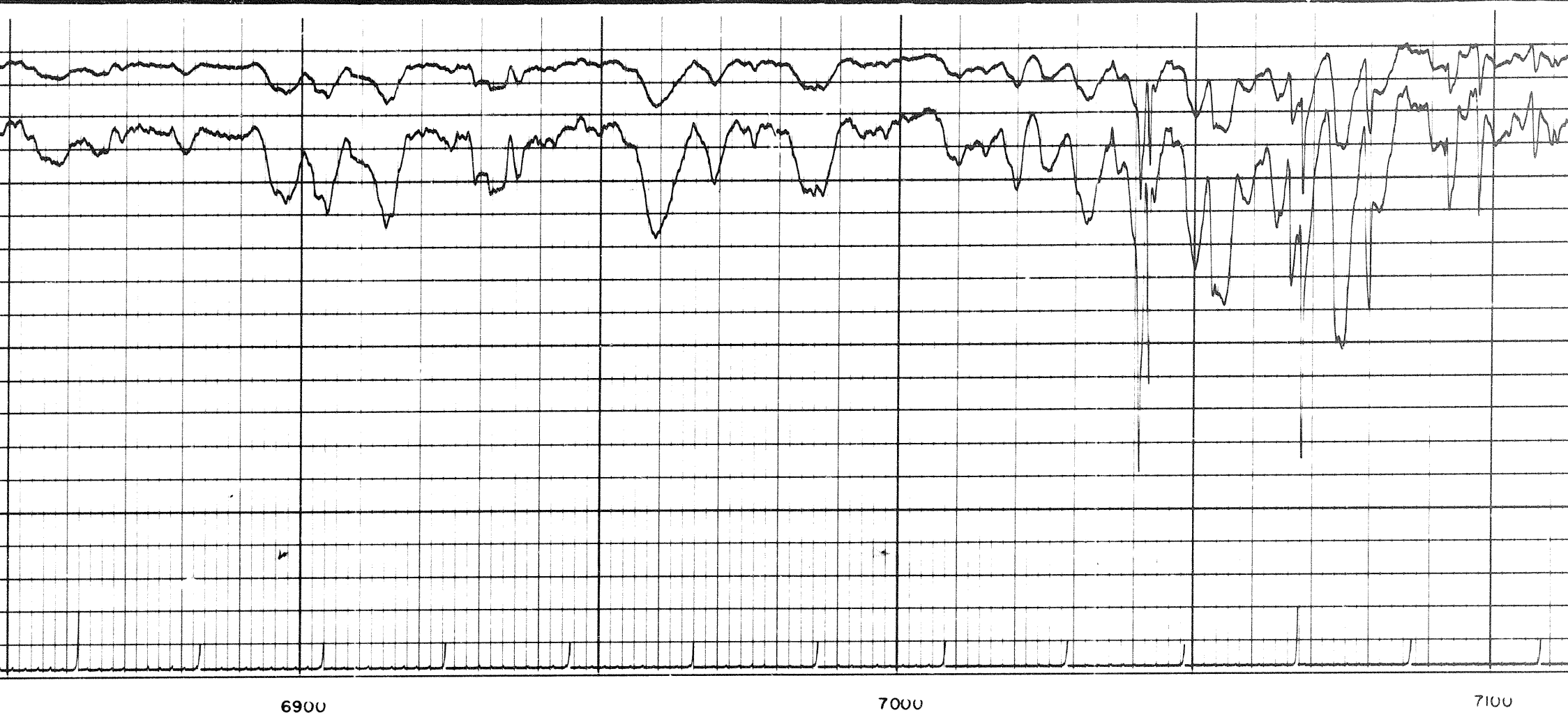
6500

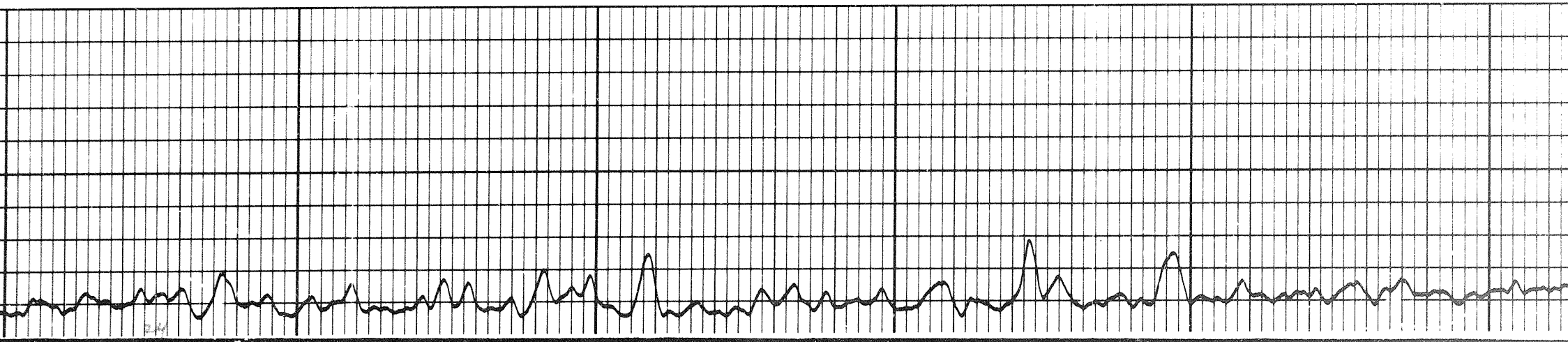


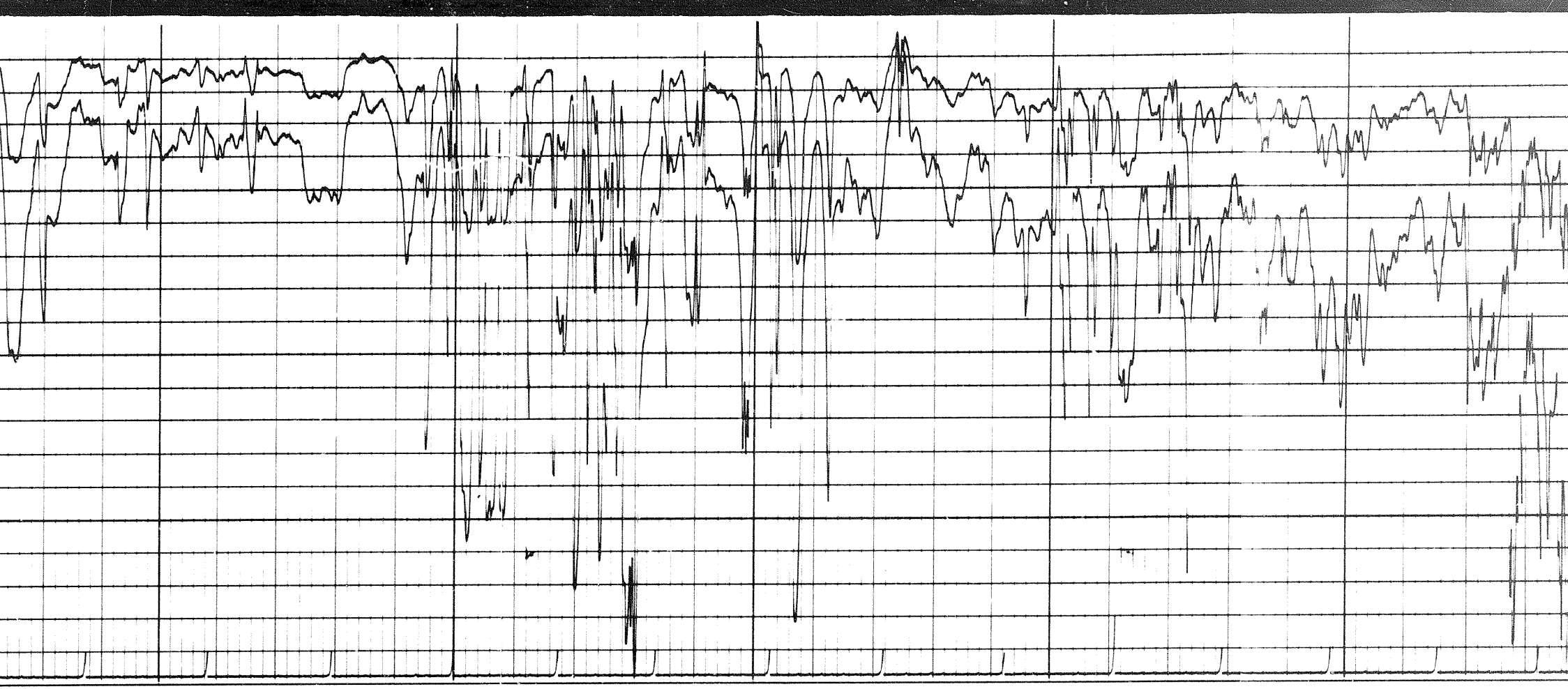

6500
6600
6700

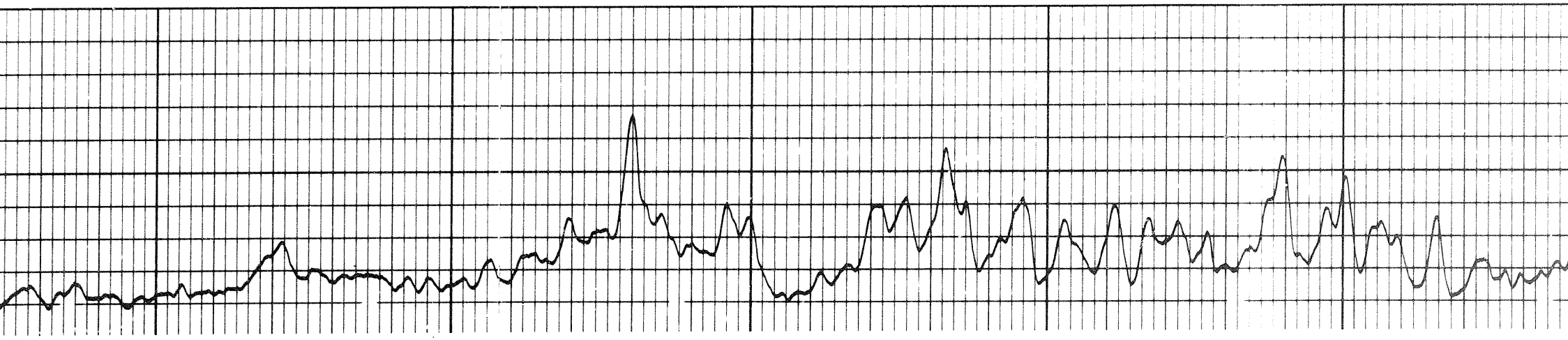


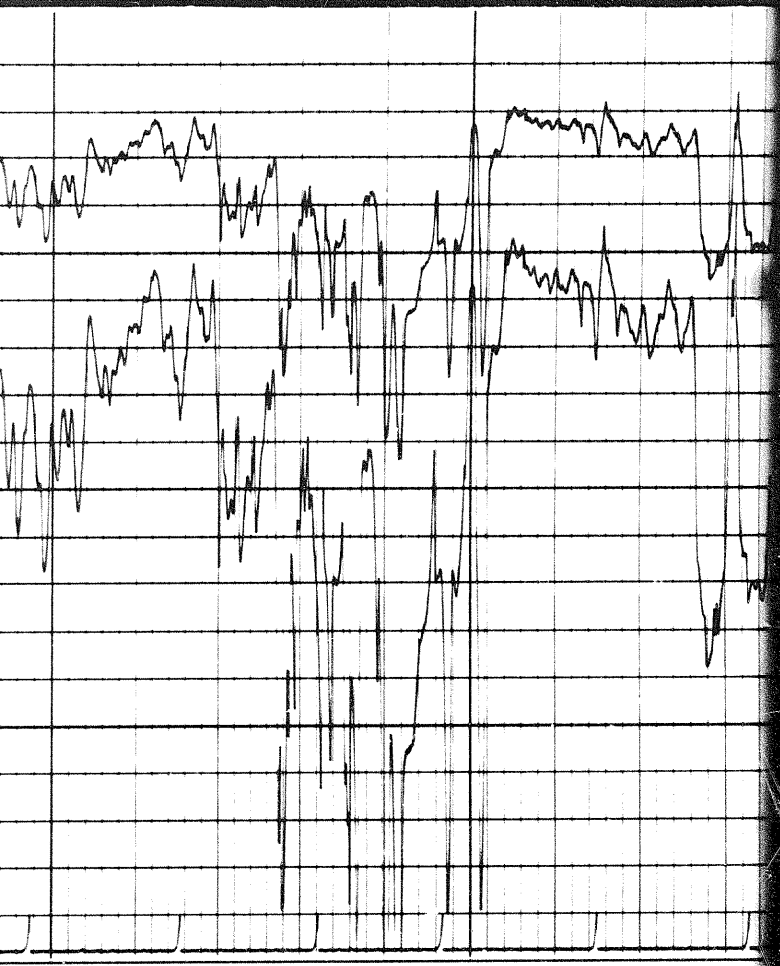

00
6800
6900


6900
7000
7100




7100
7200
7300





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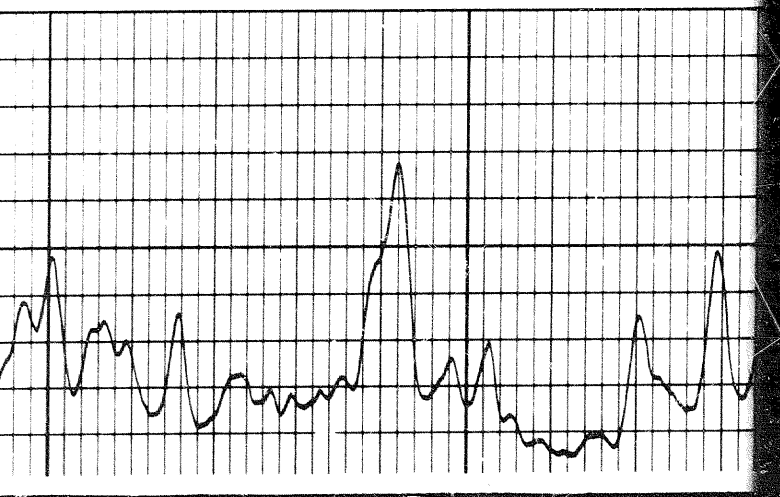

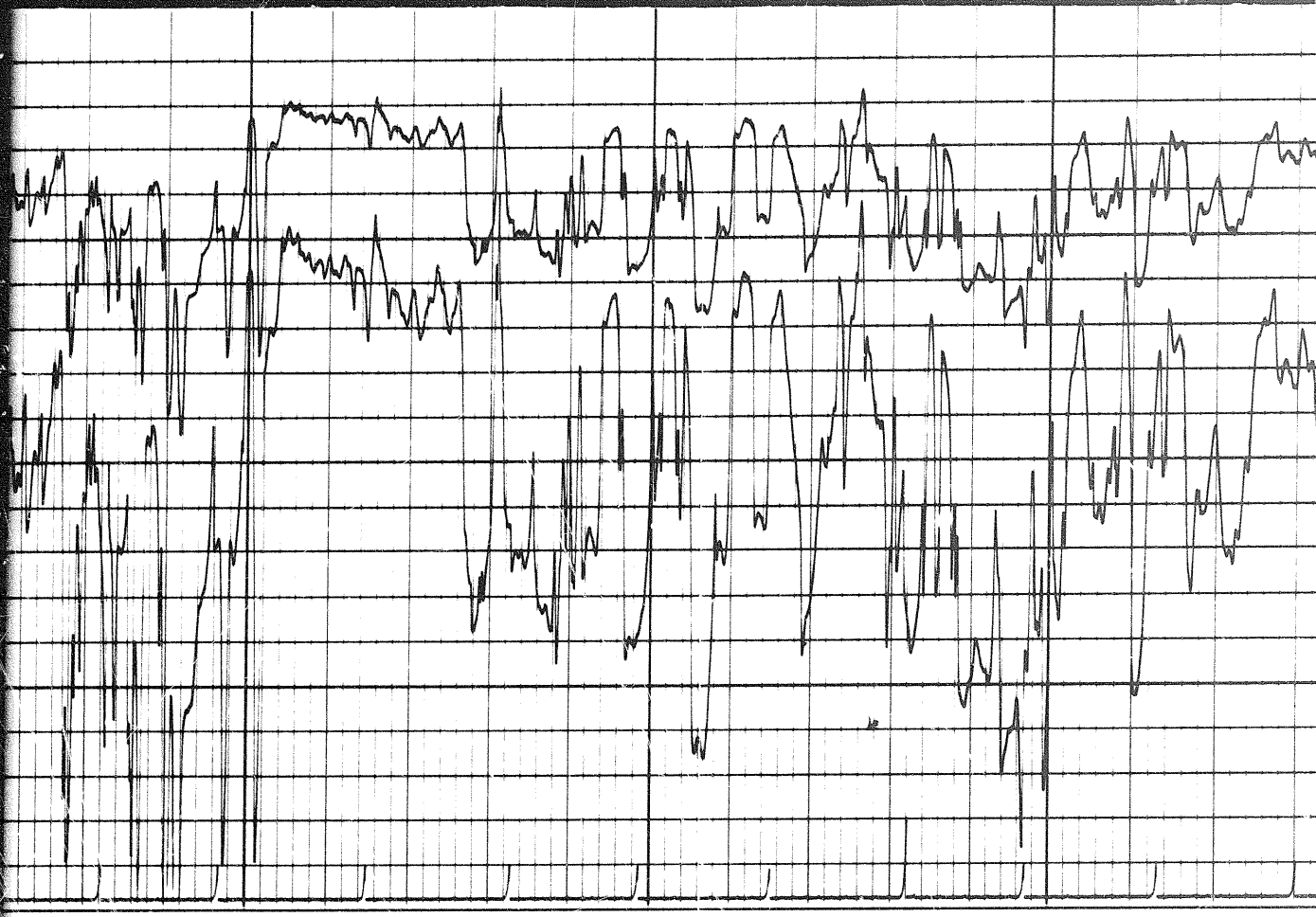

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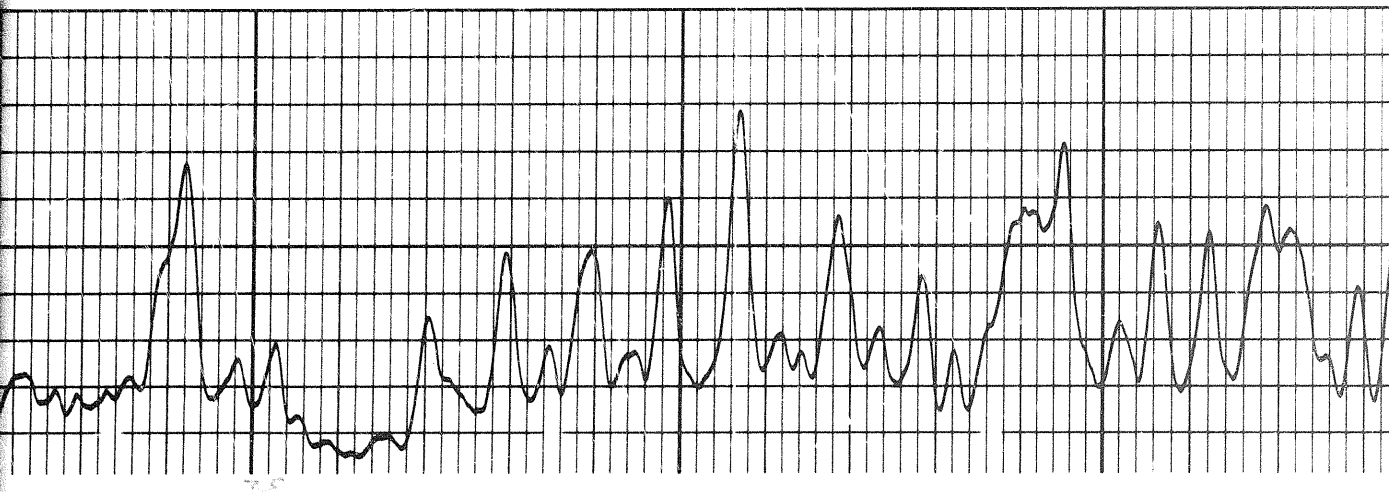

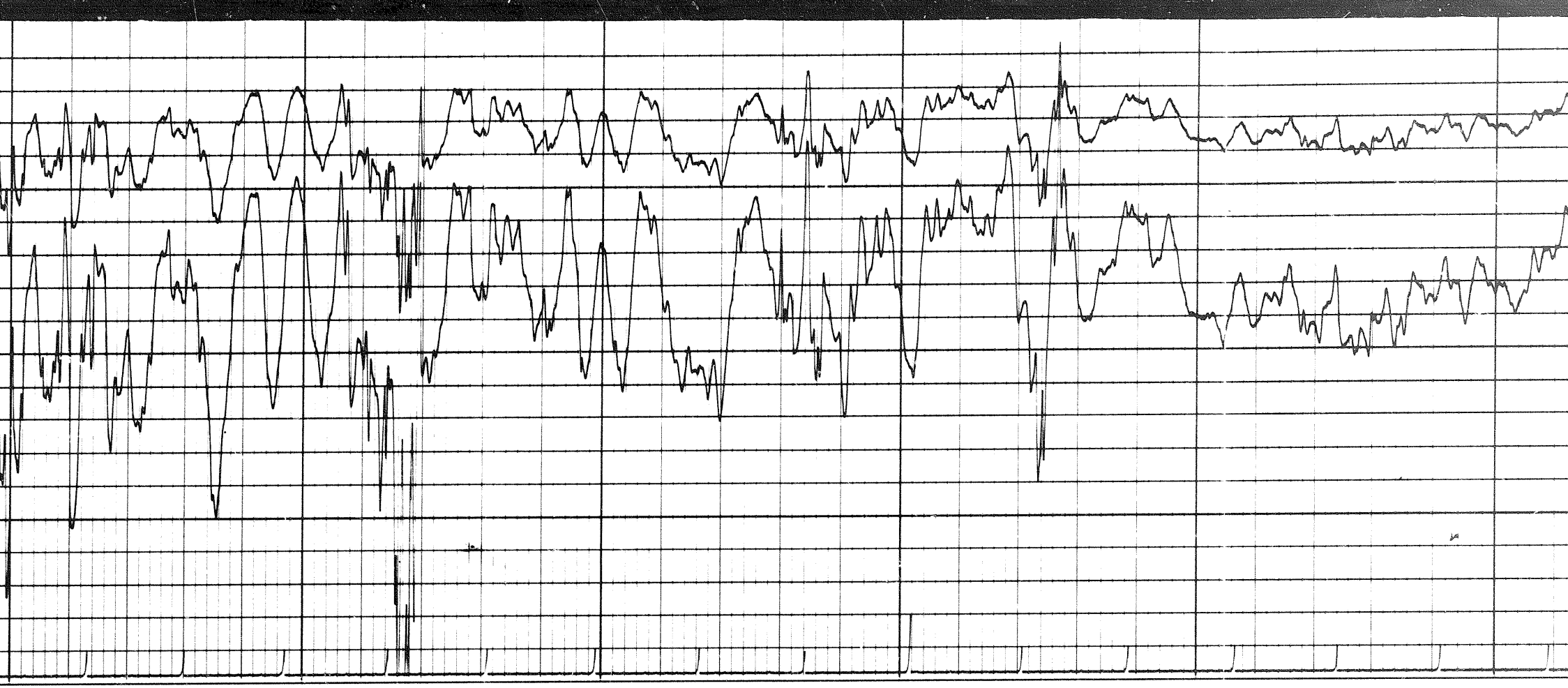
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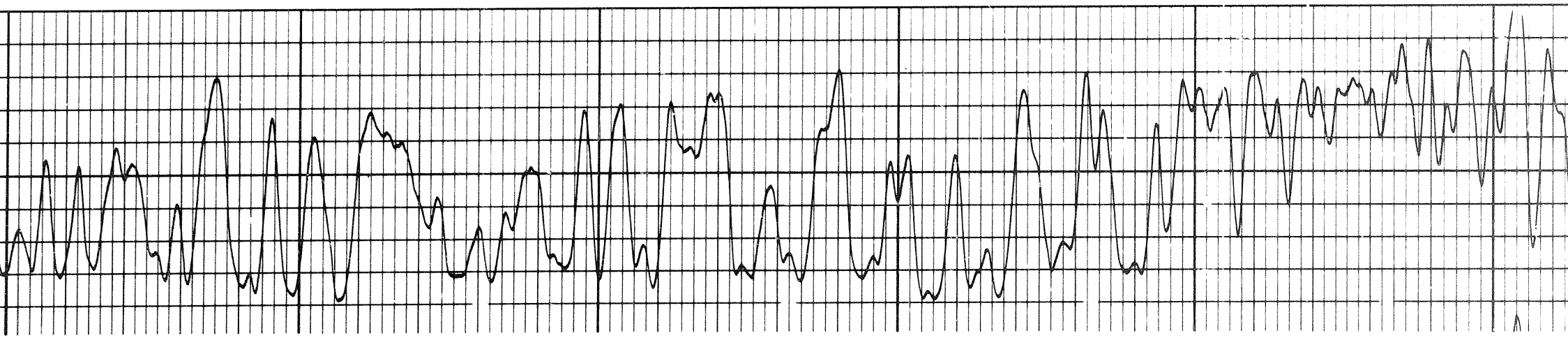

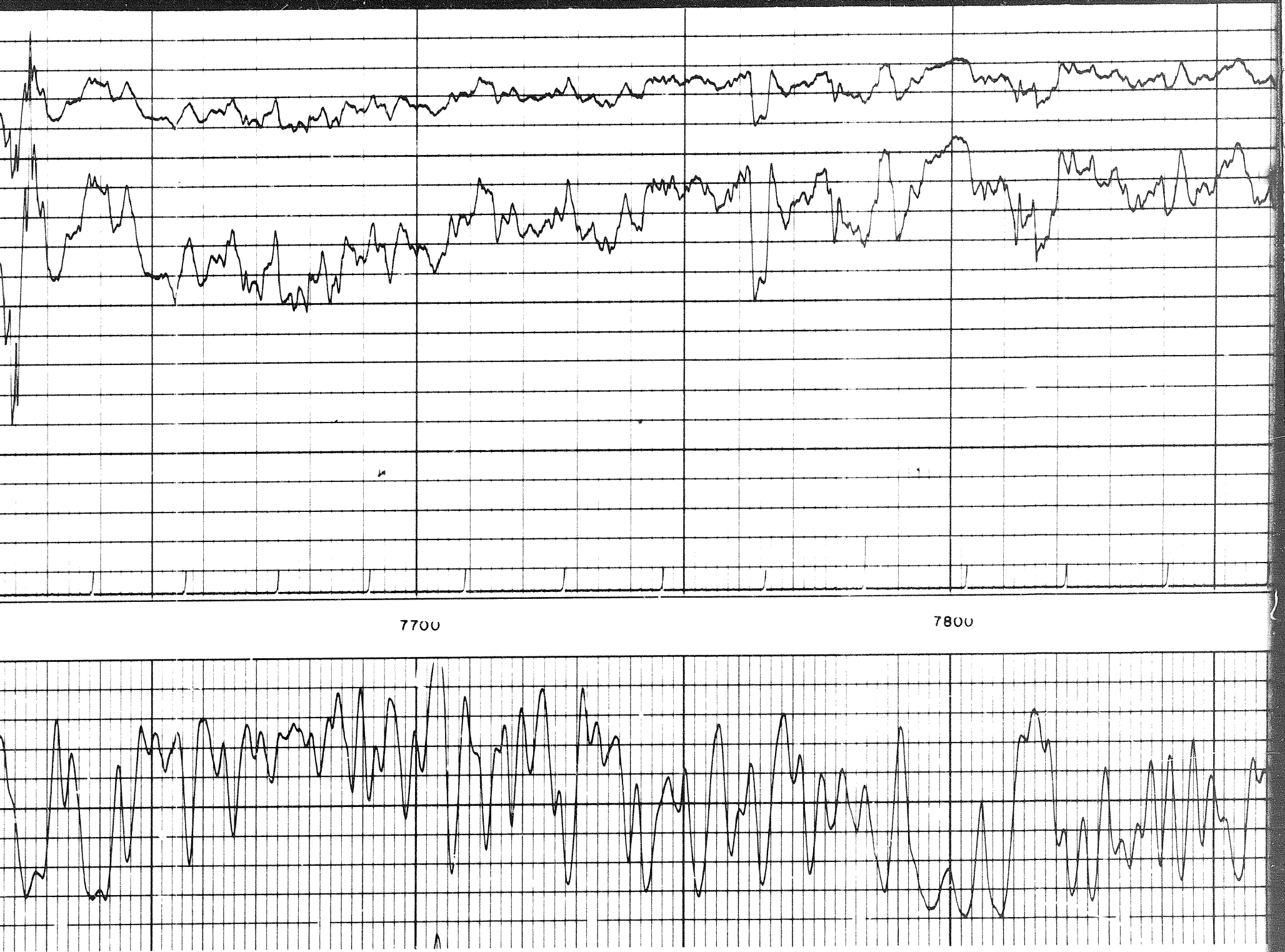
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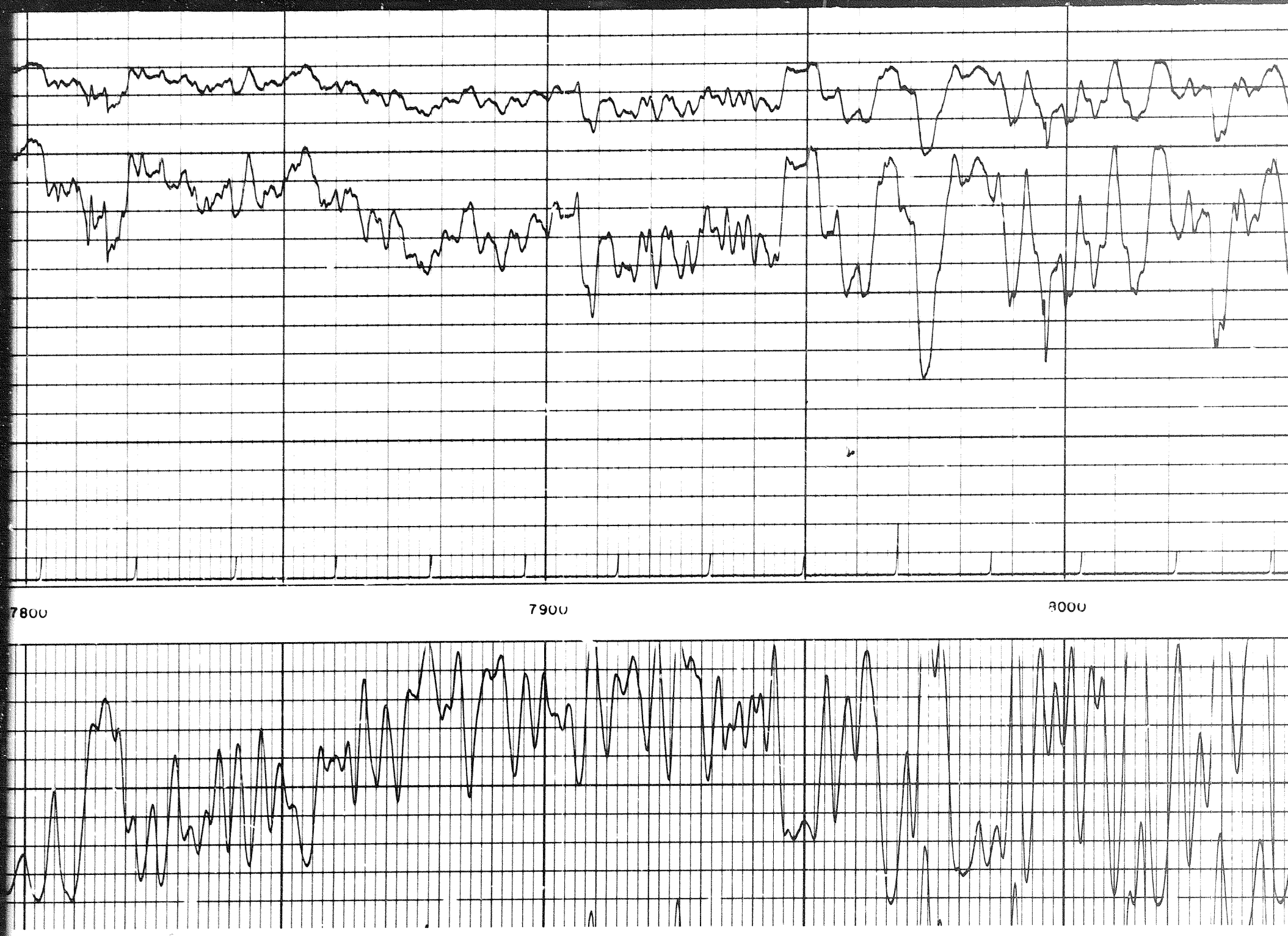
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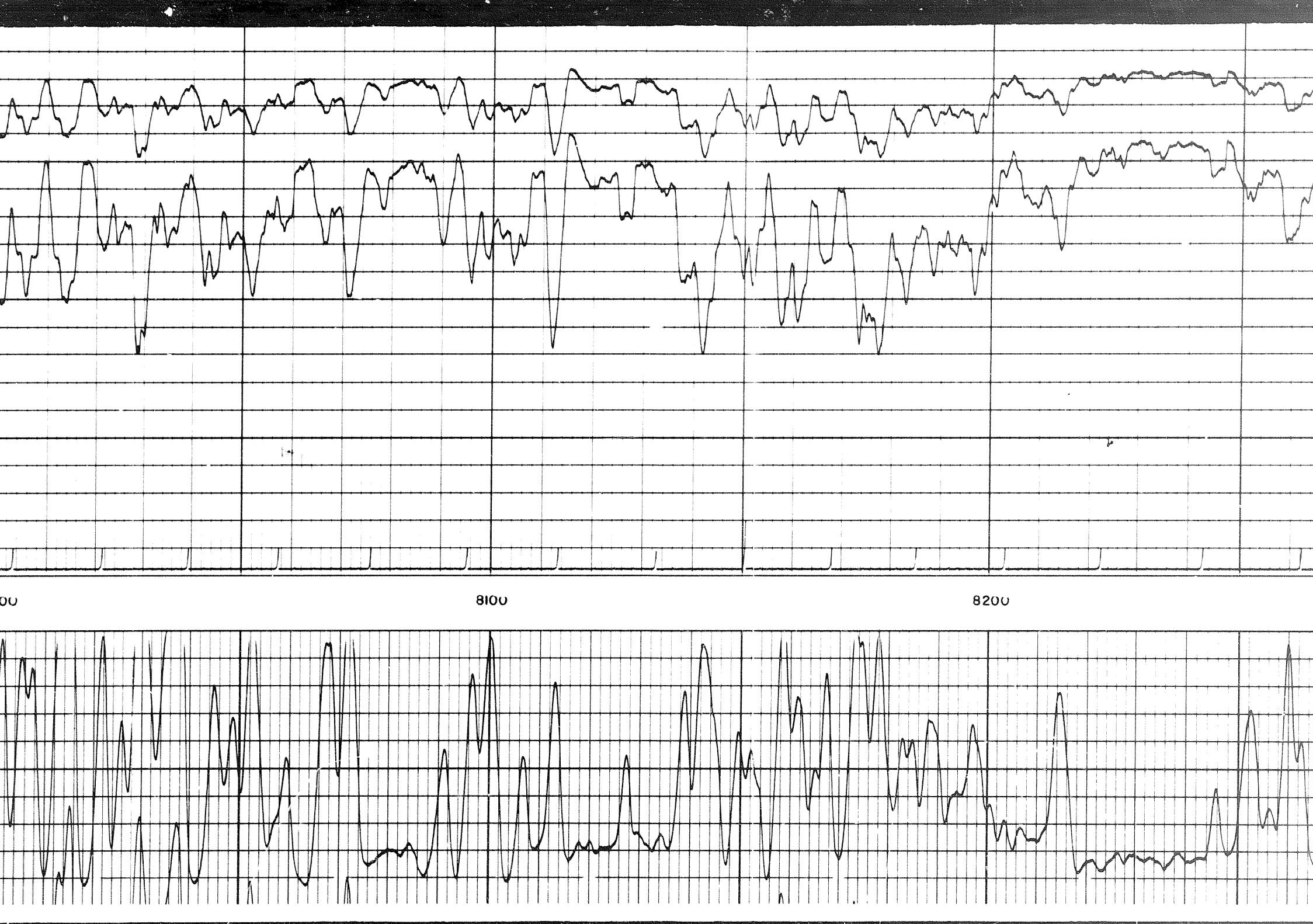
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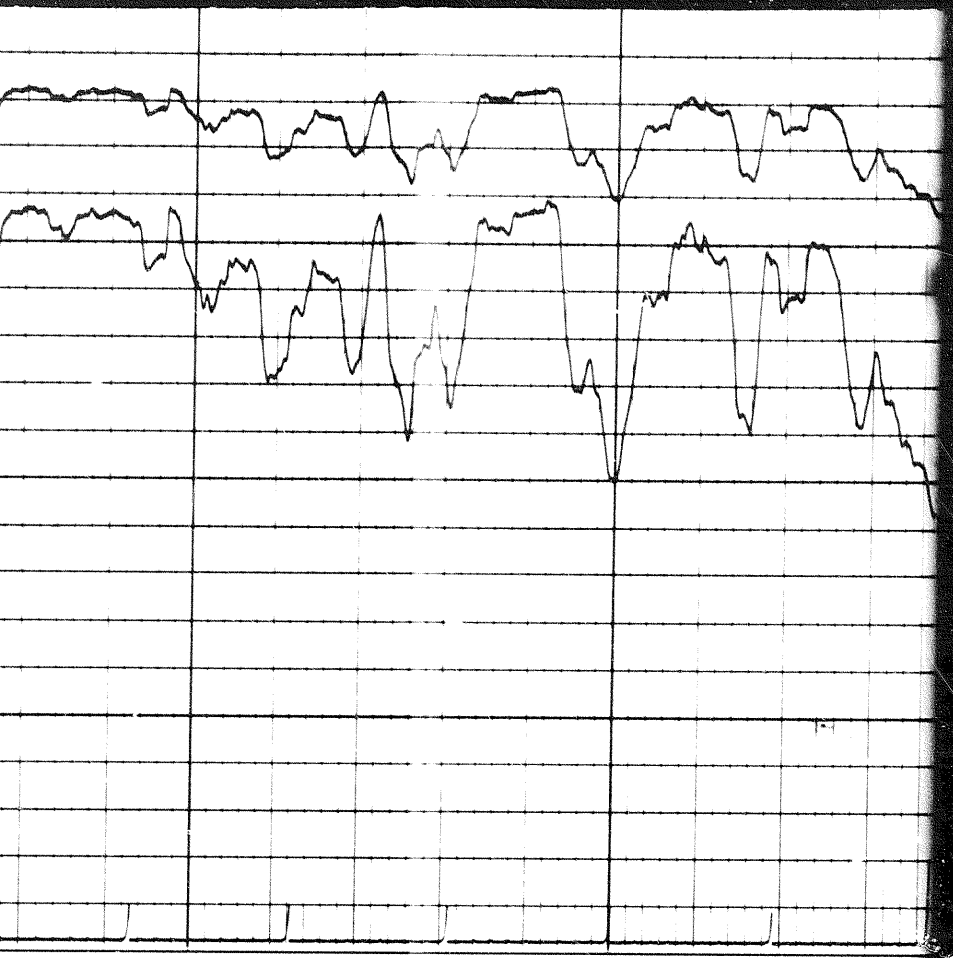

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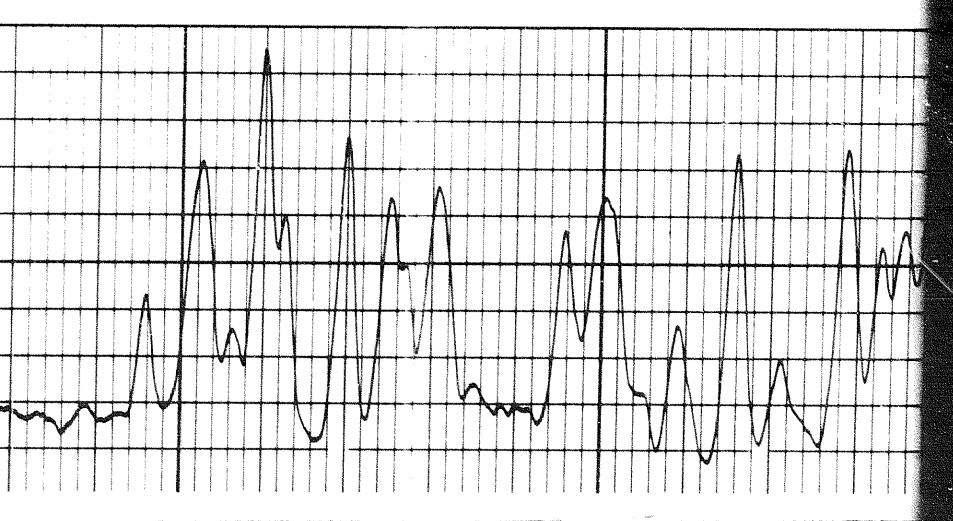

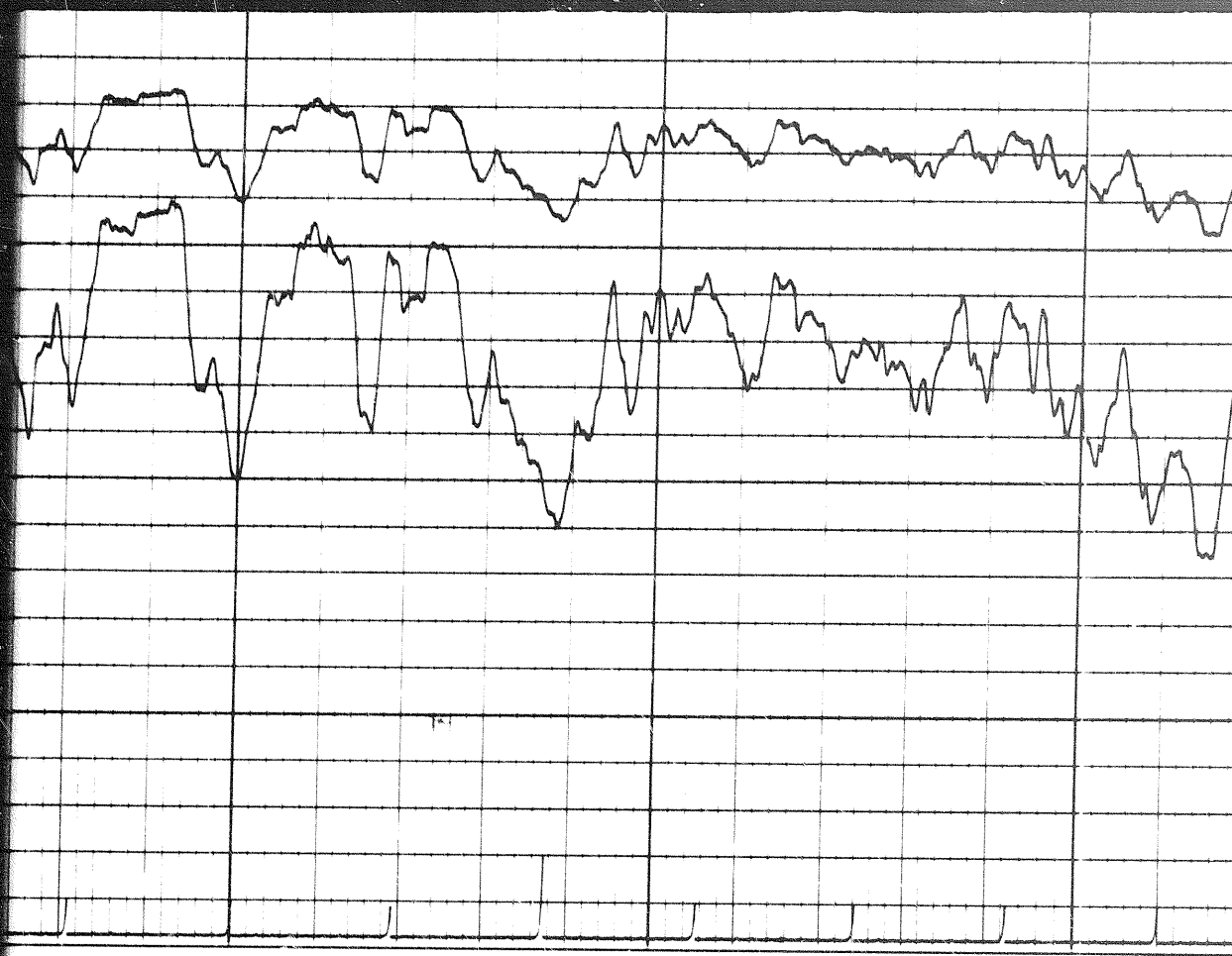

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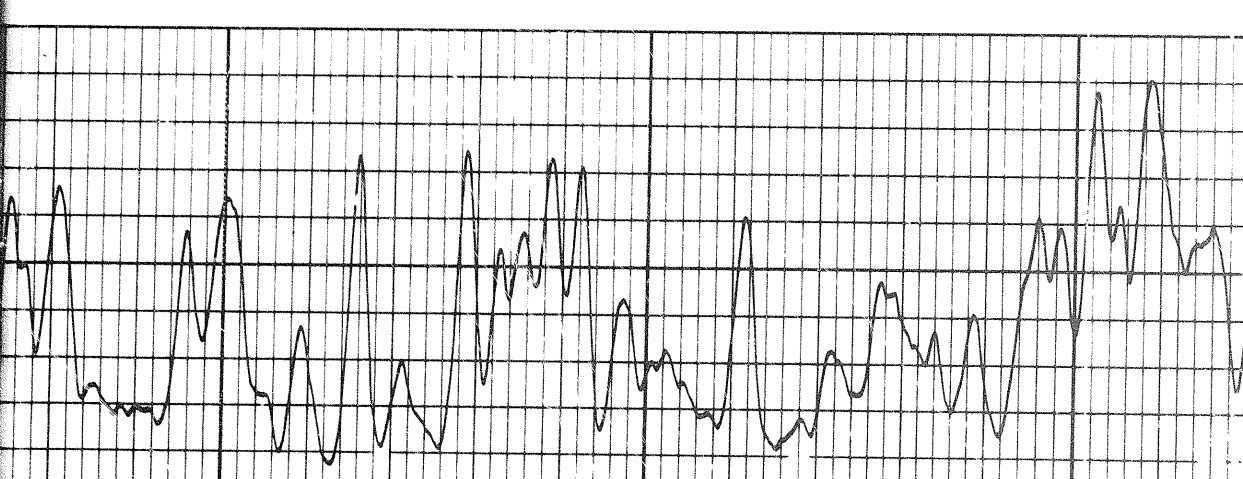

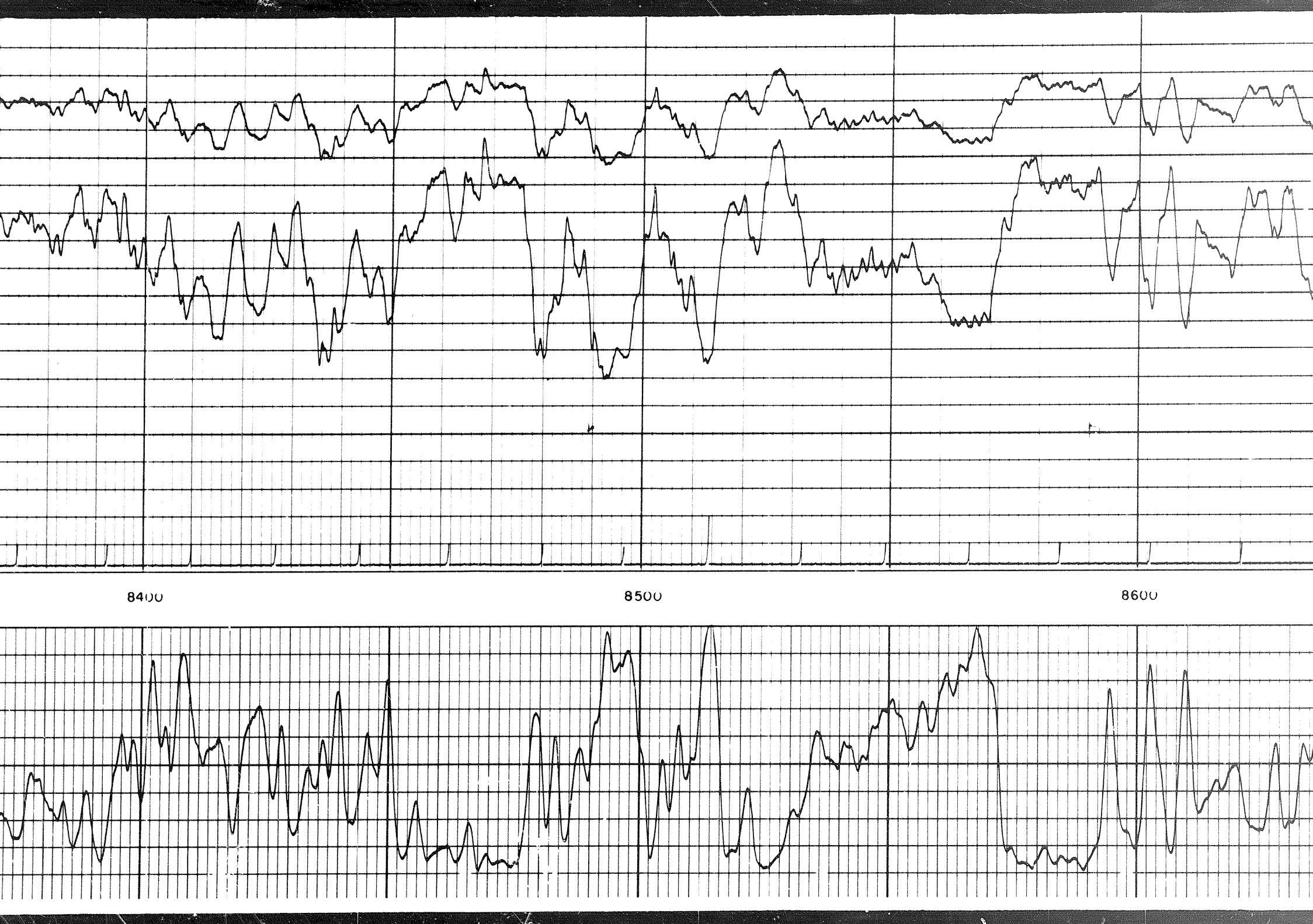
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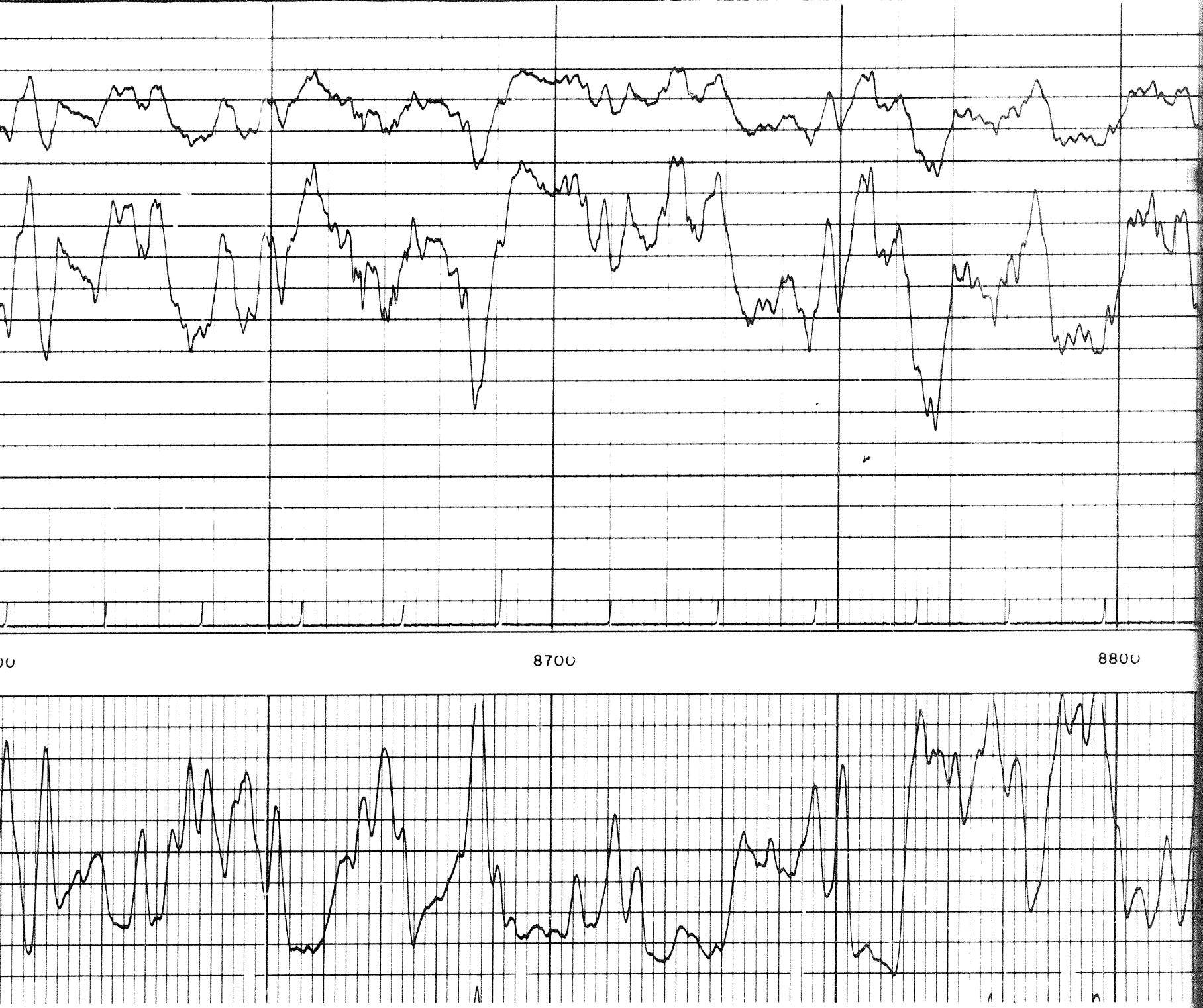
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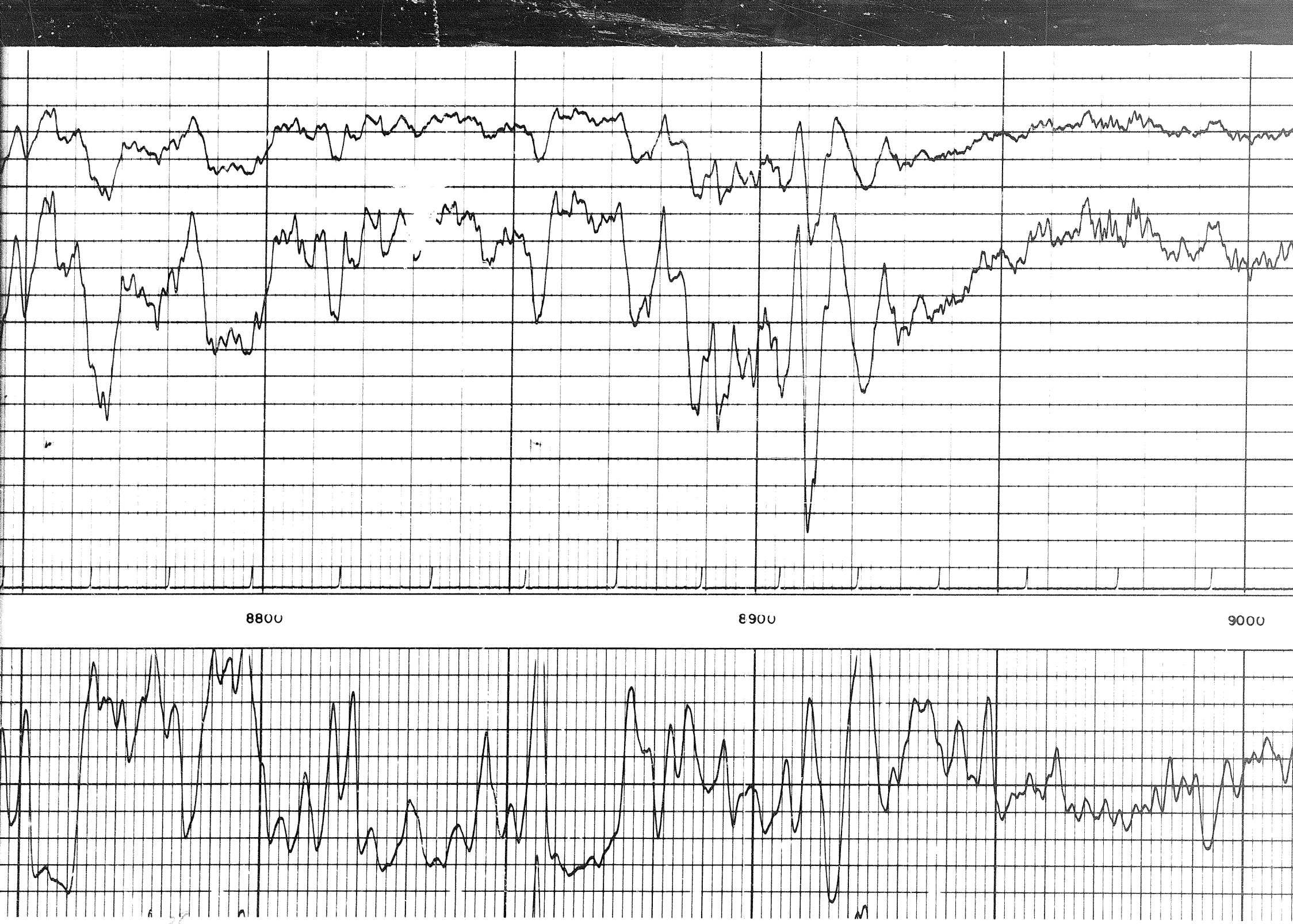
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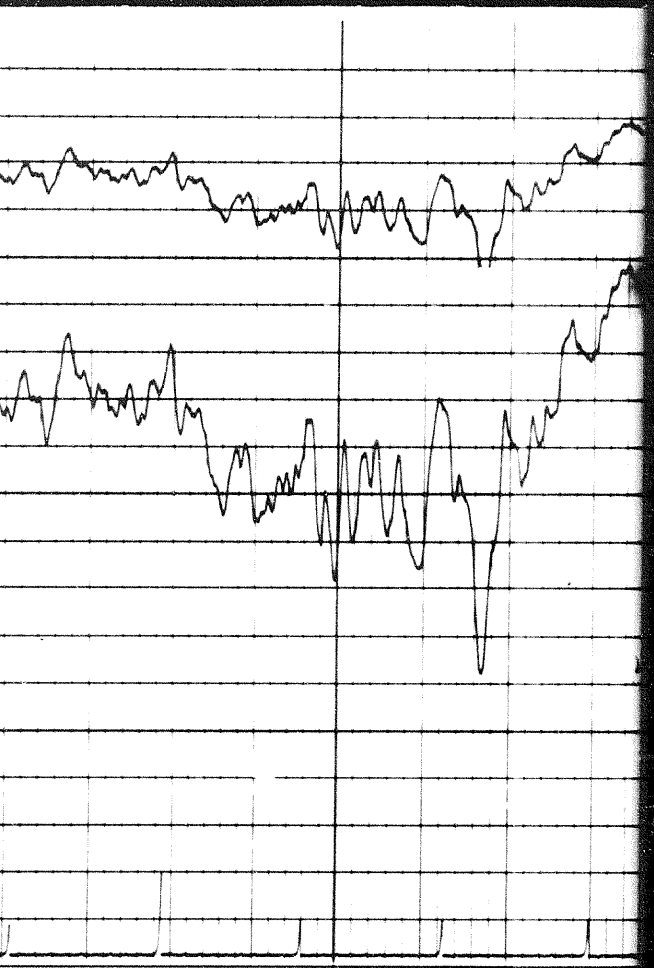

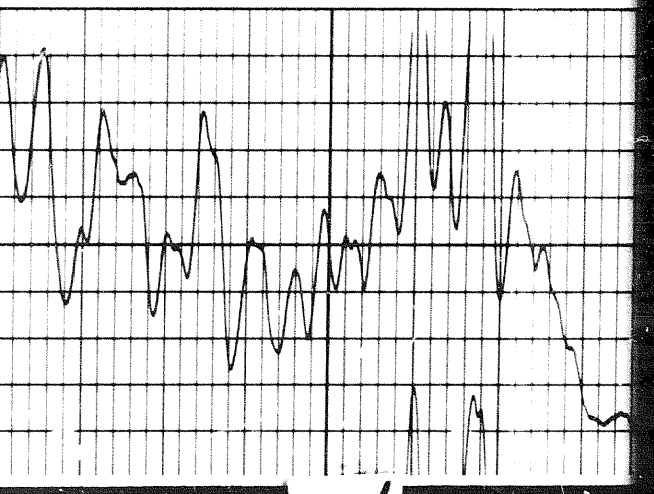

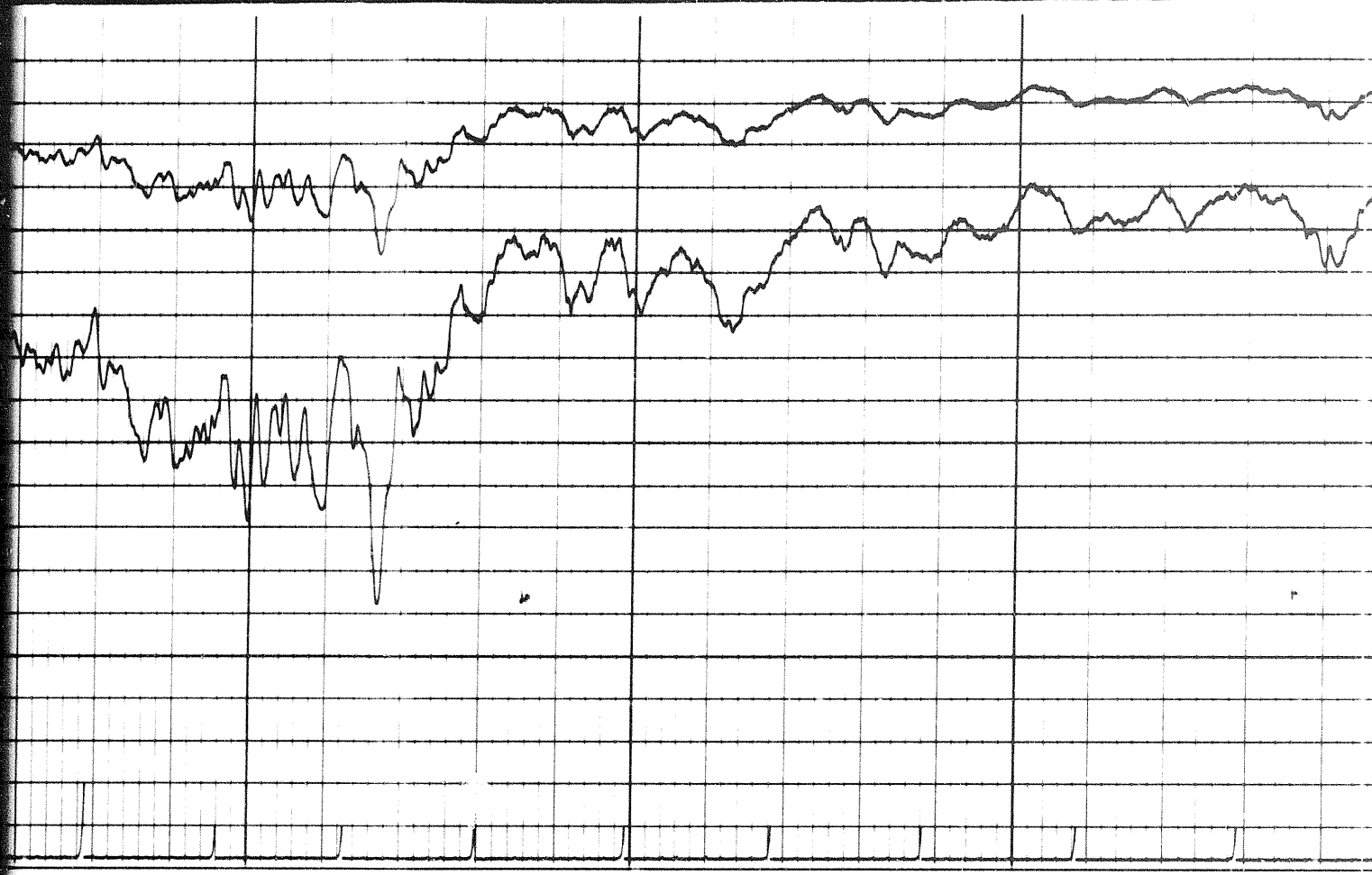

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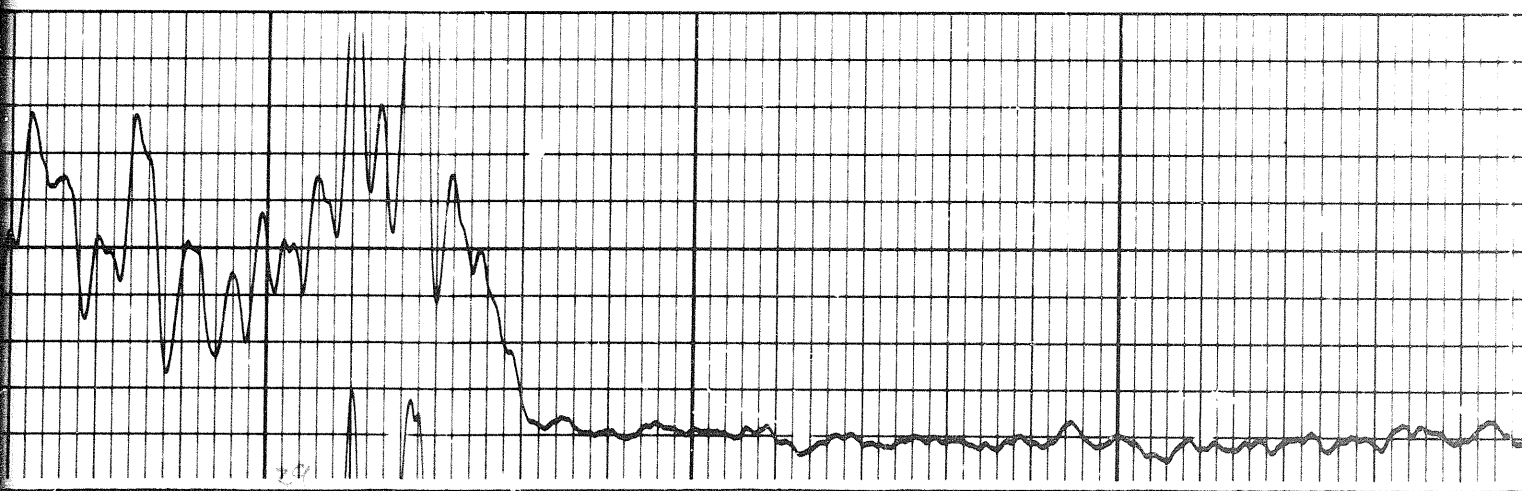

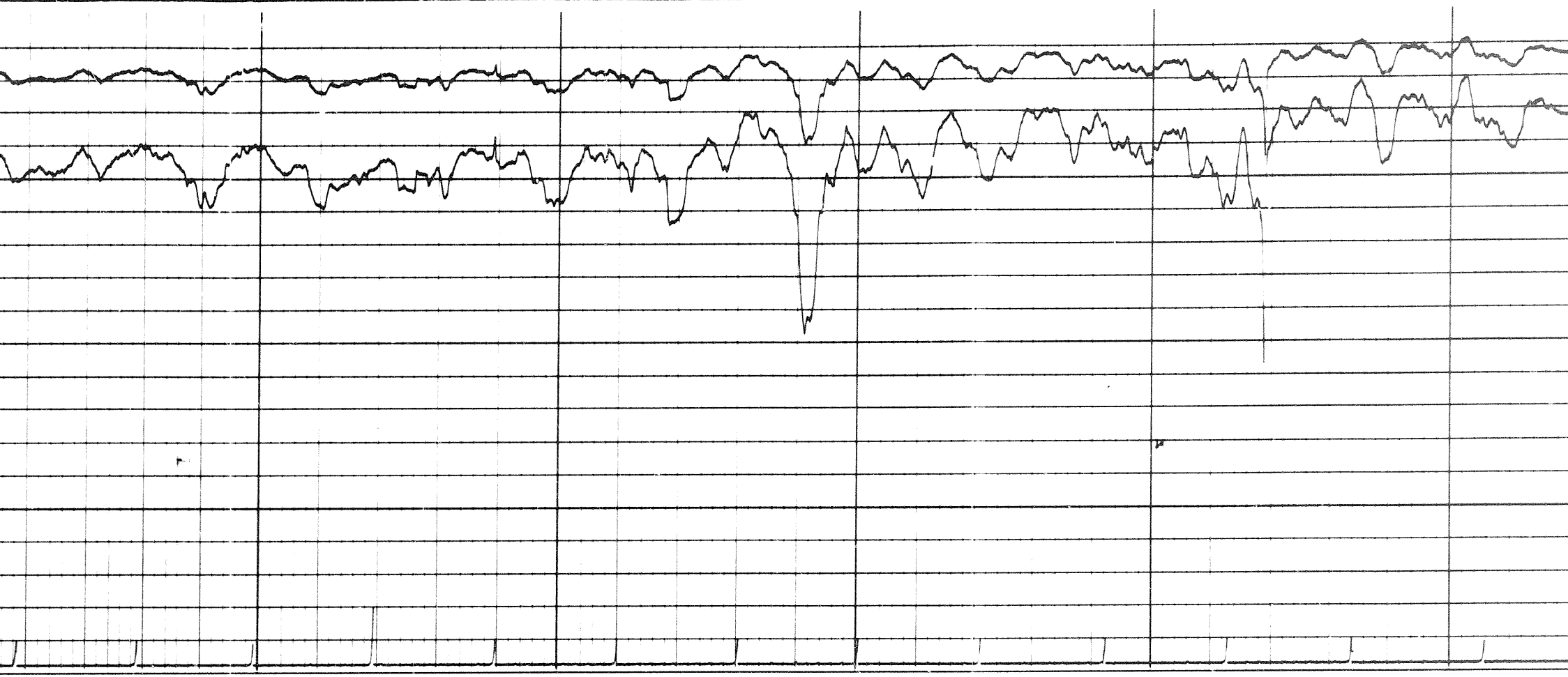
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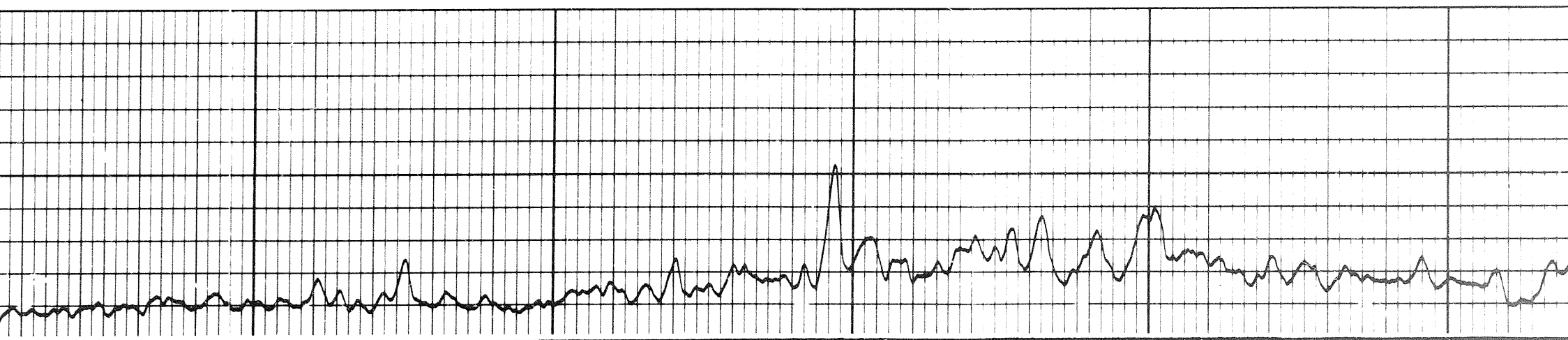

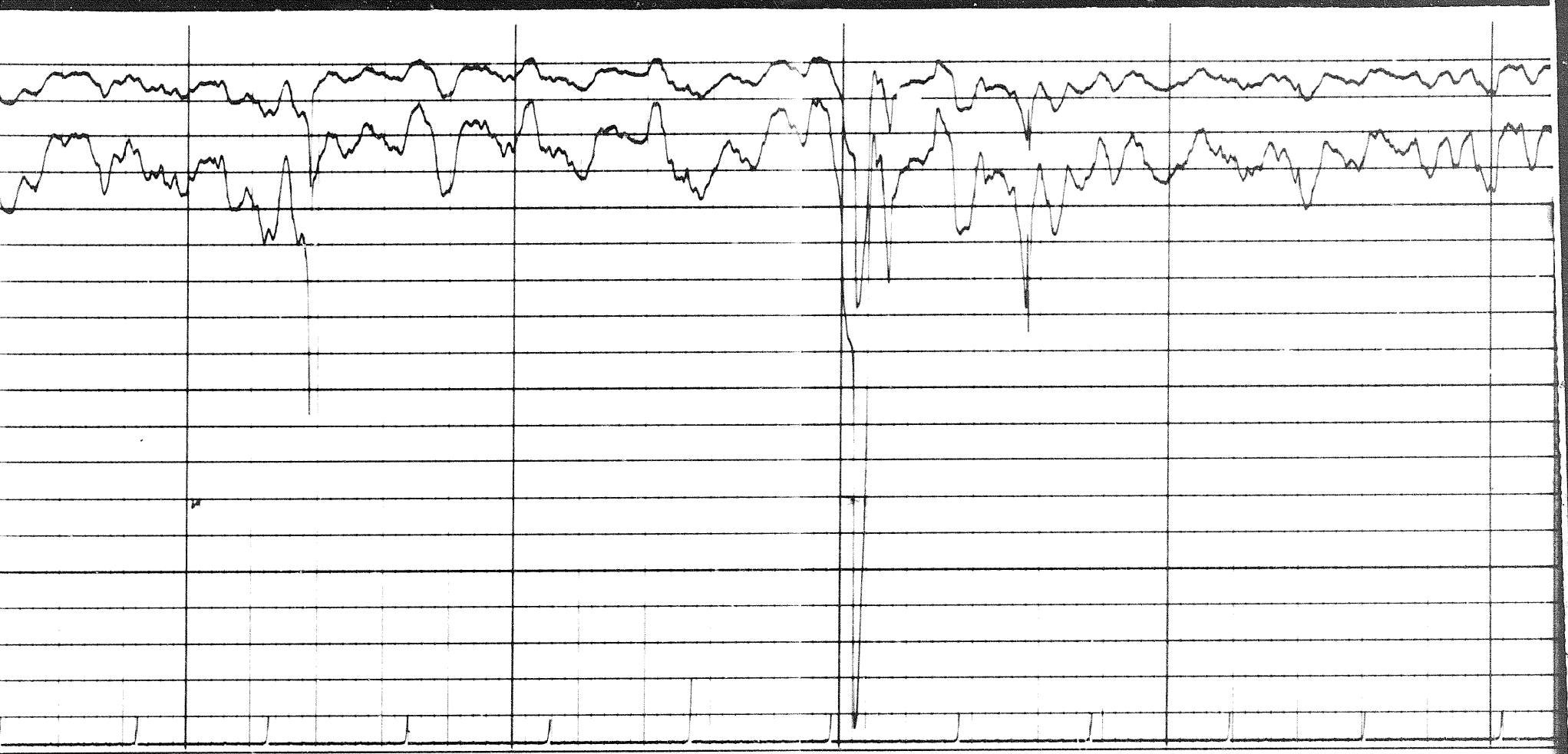

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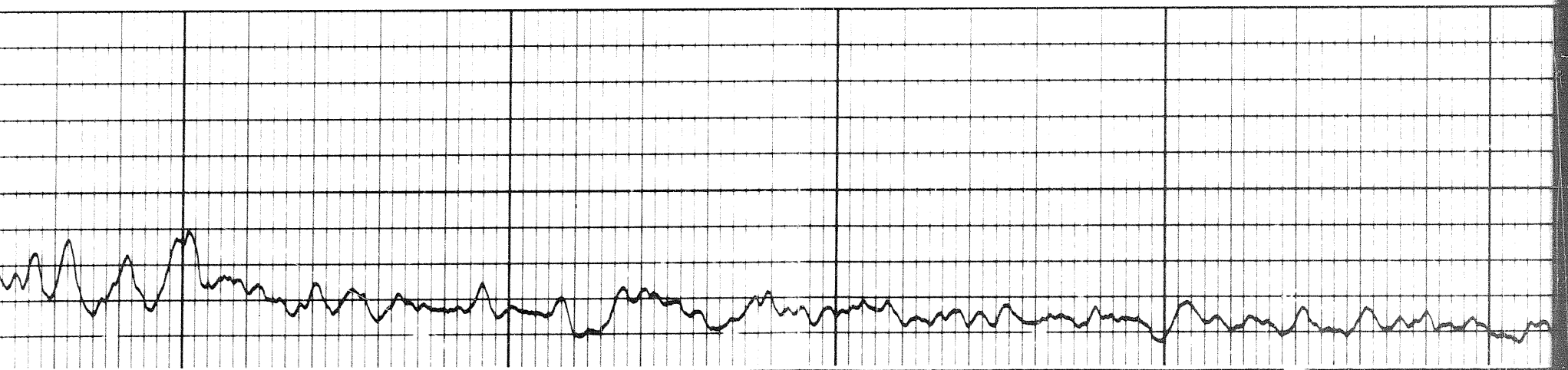

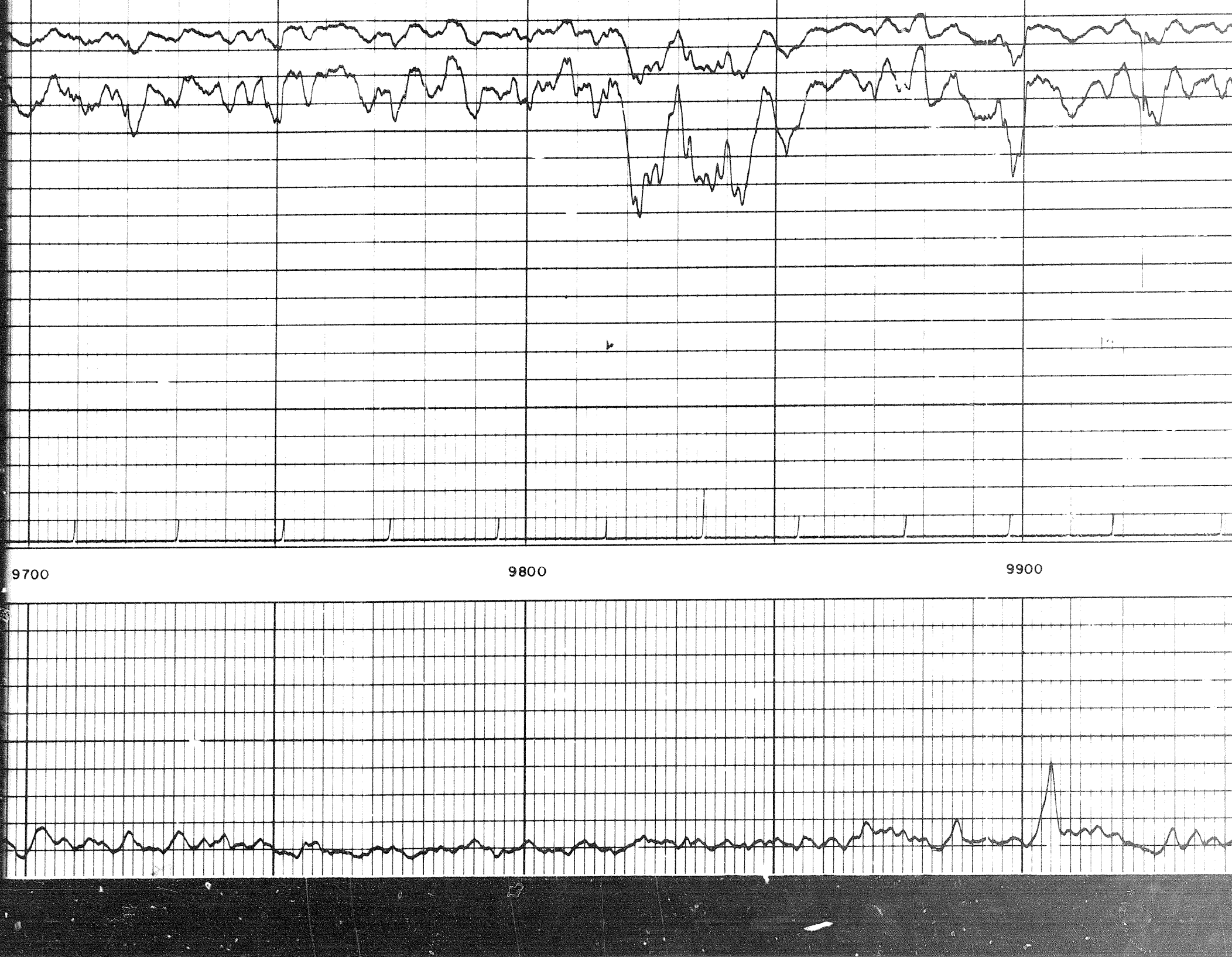
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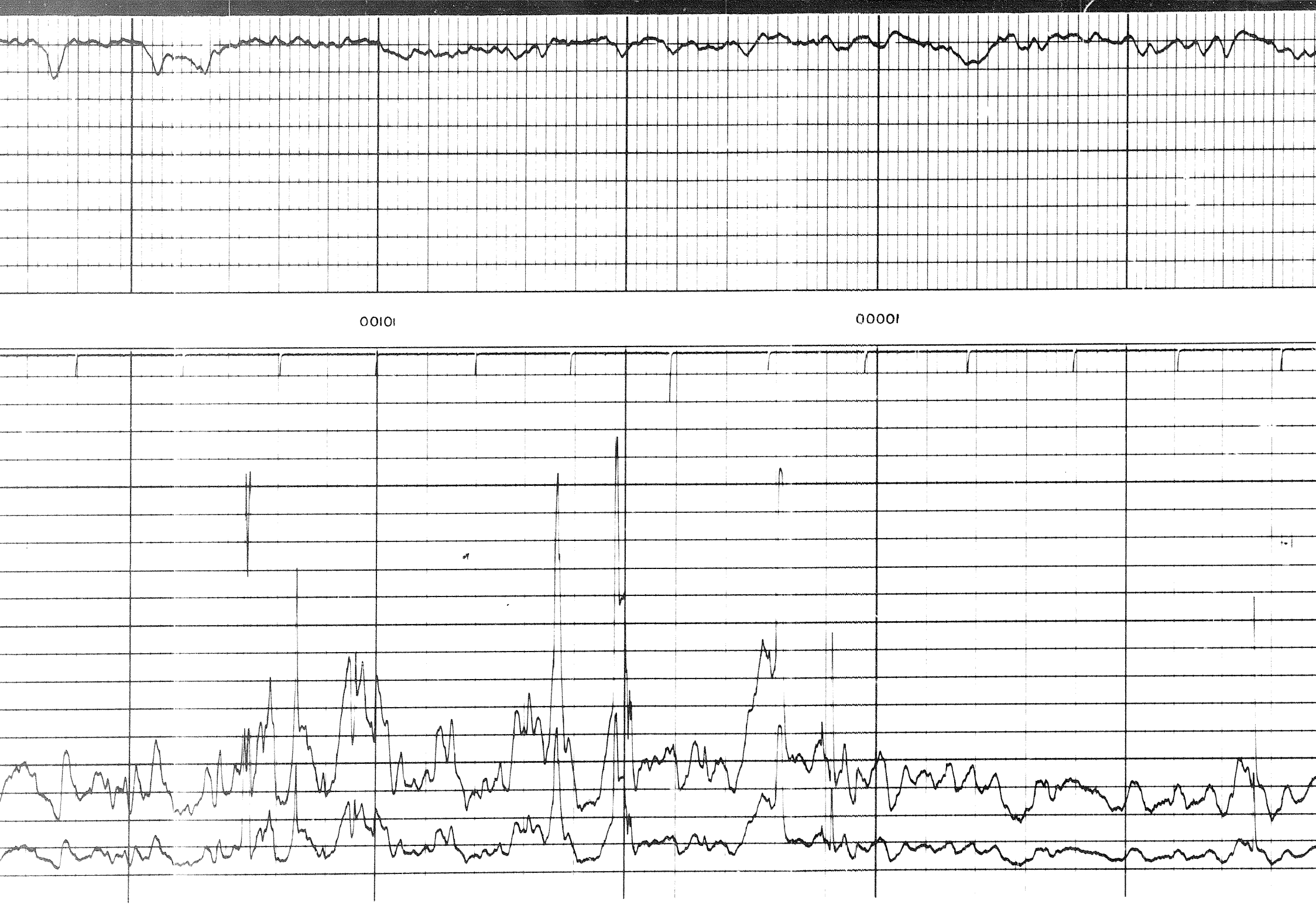
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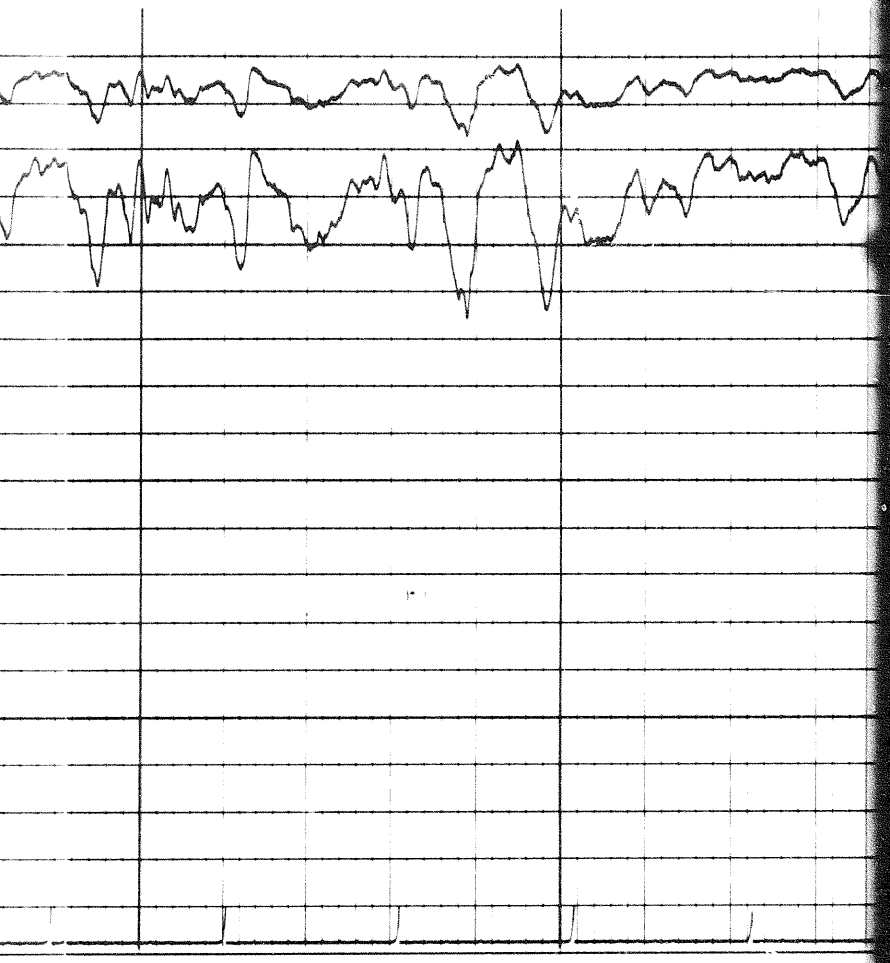
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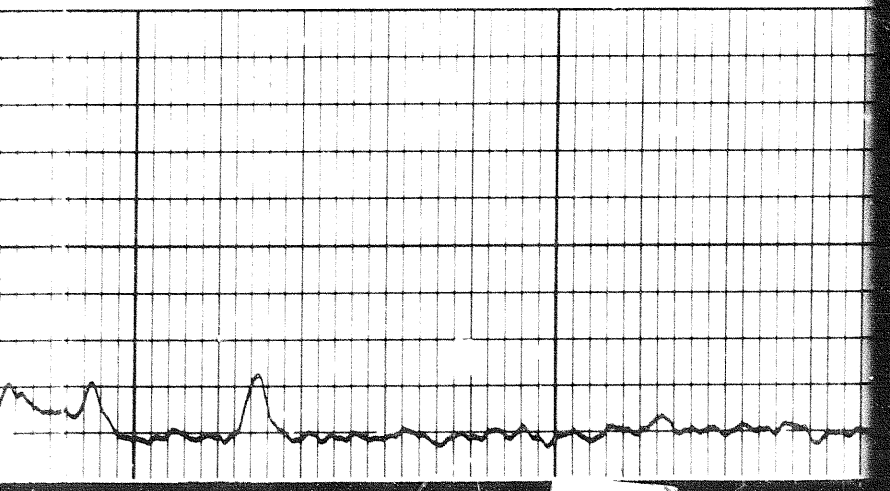

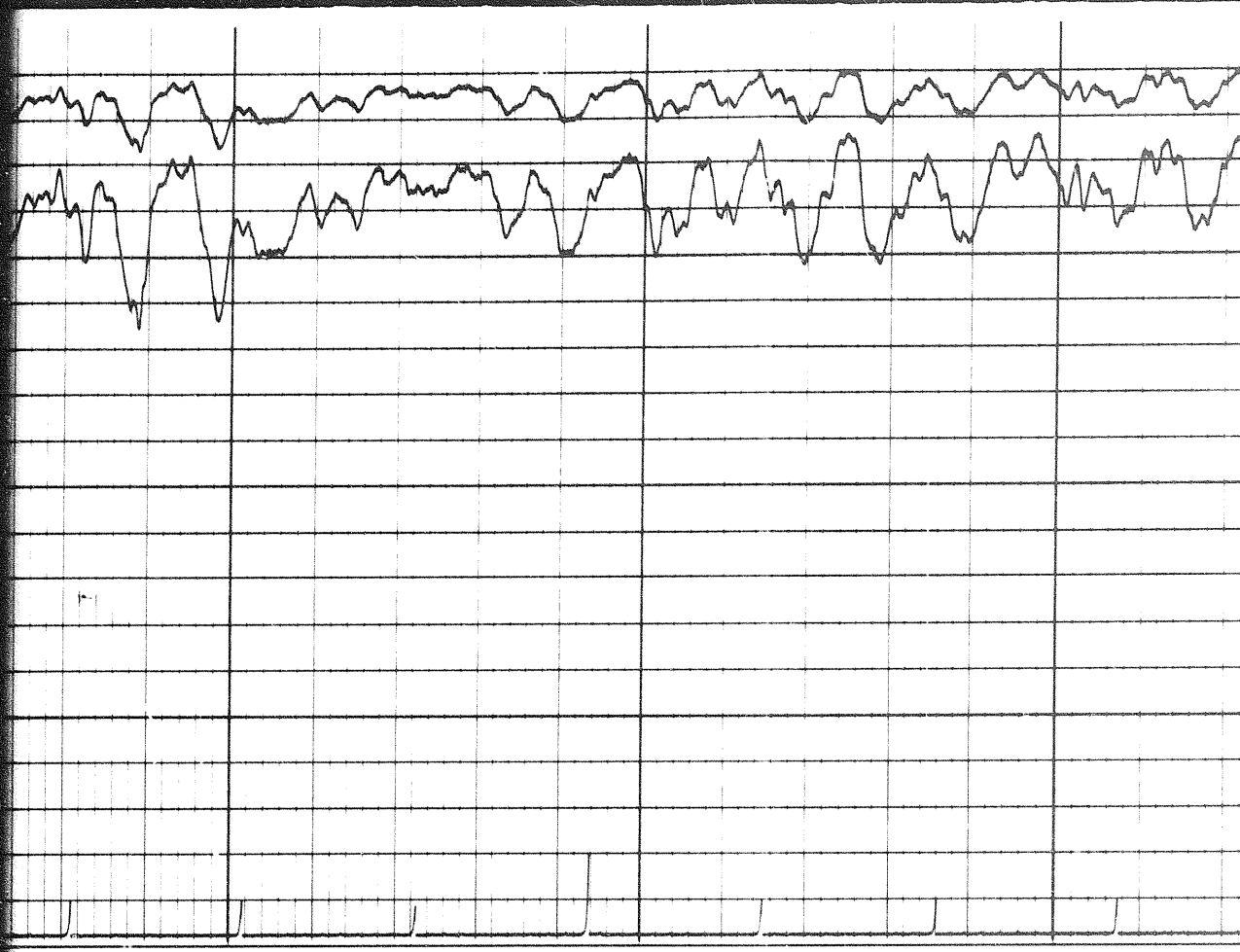
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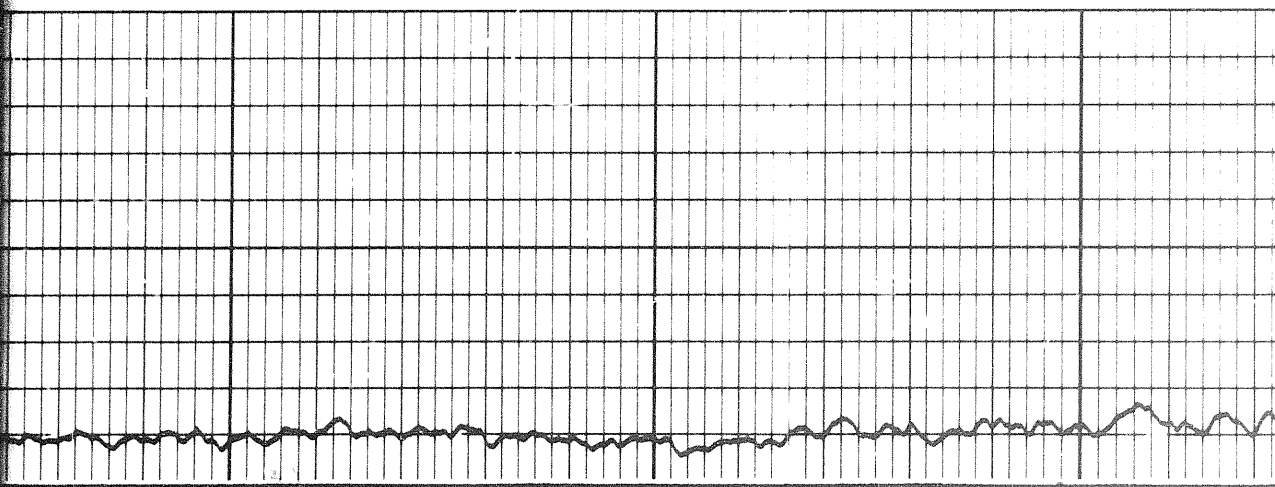

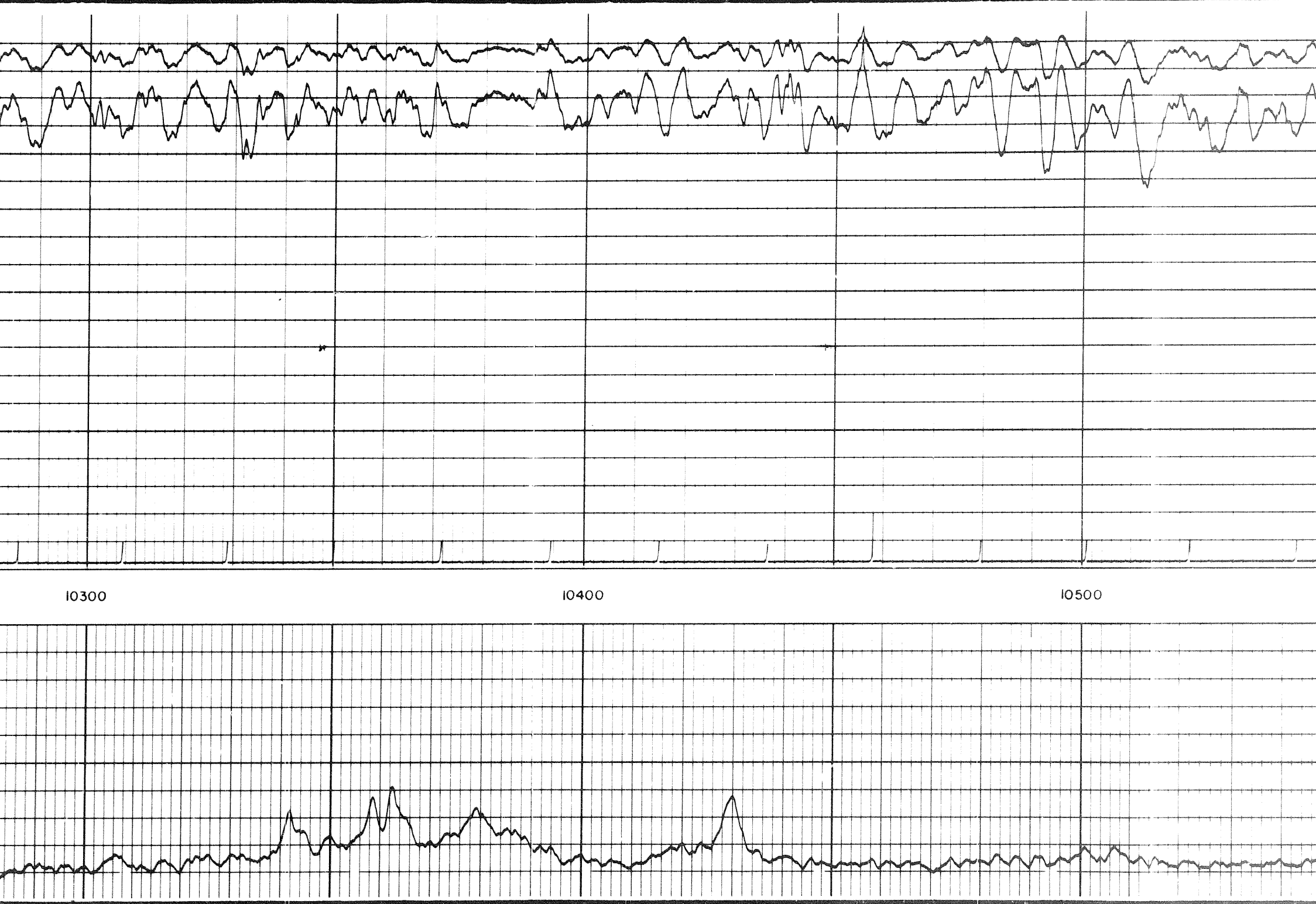
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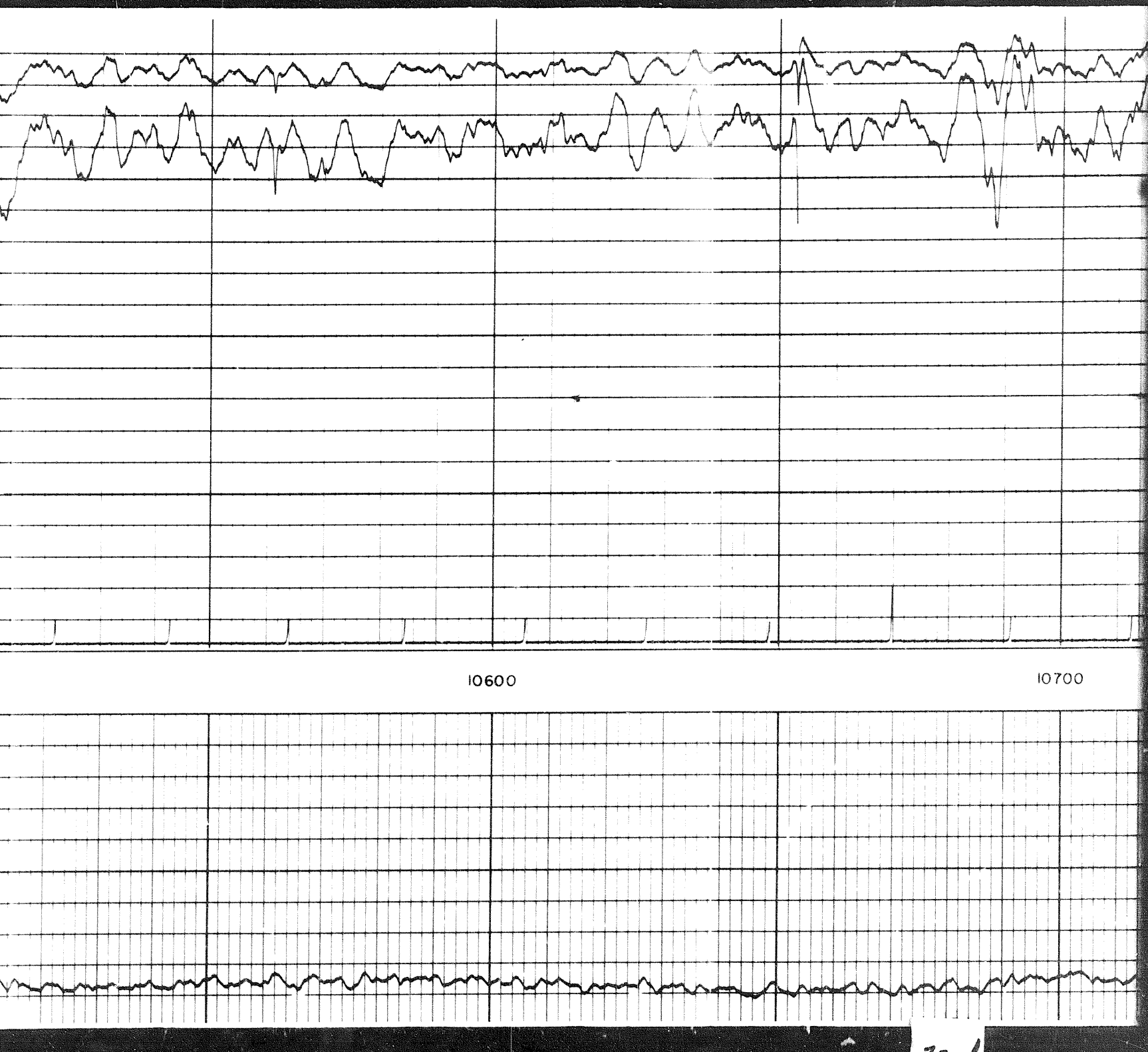
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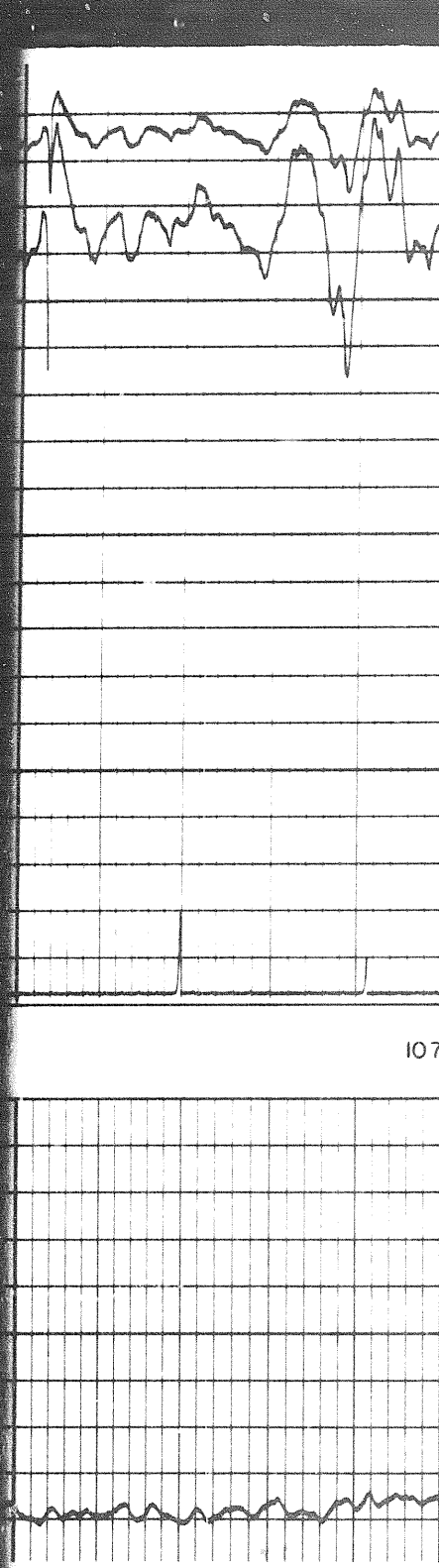
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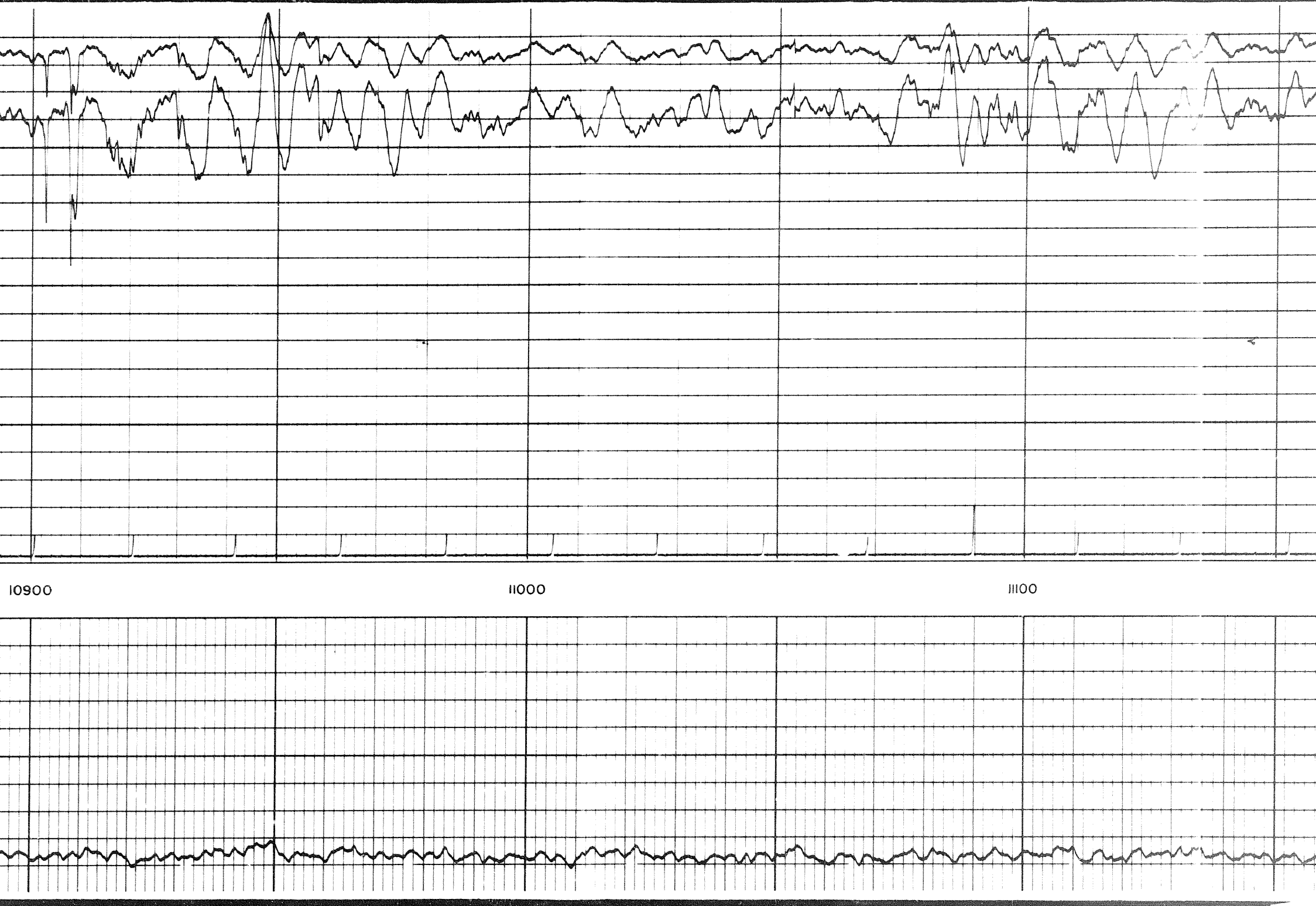
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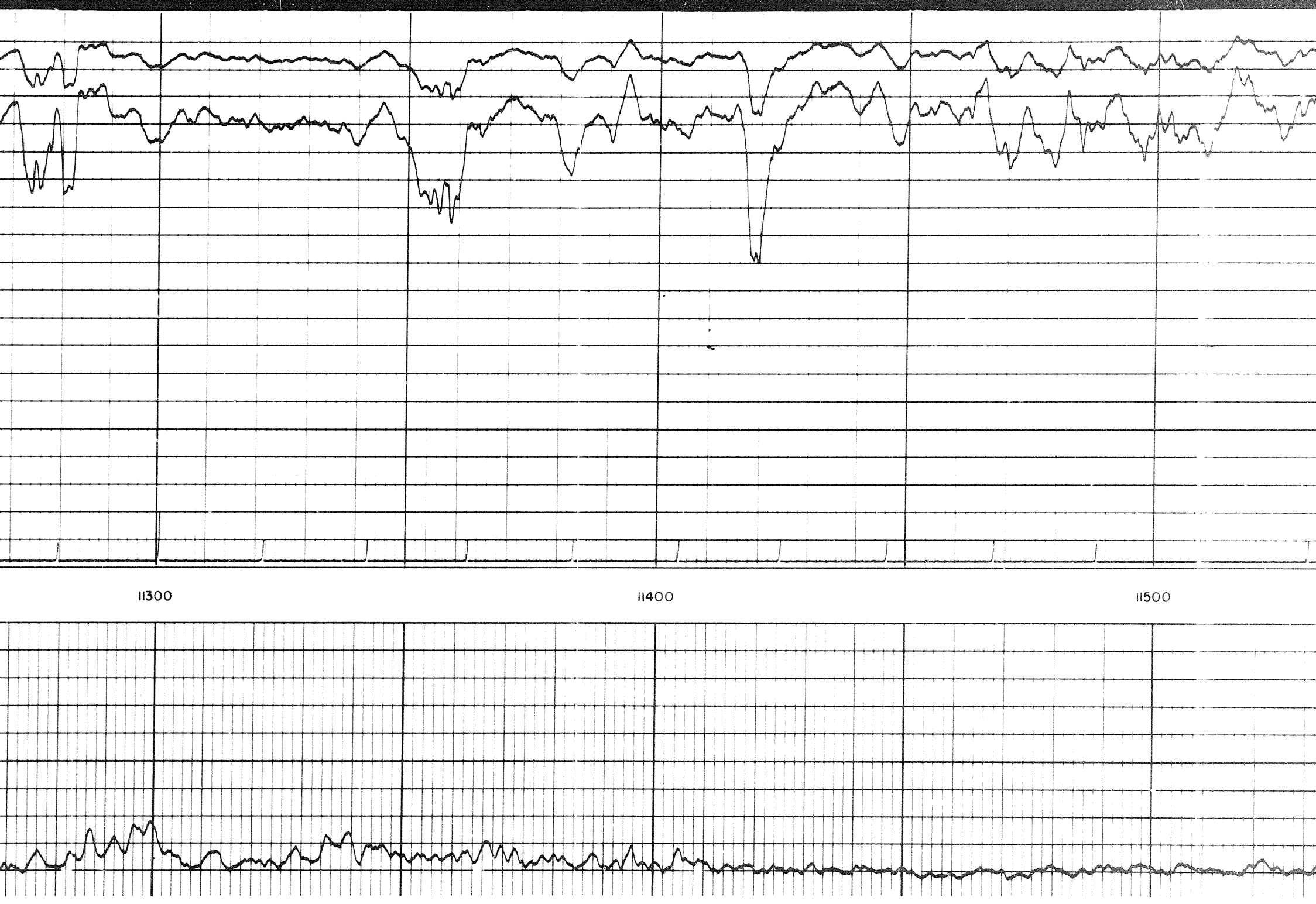
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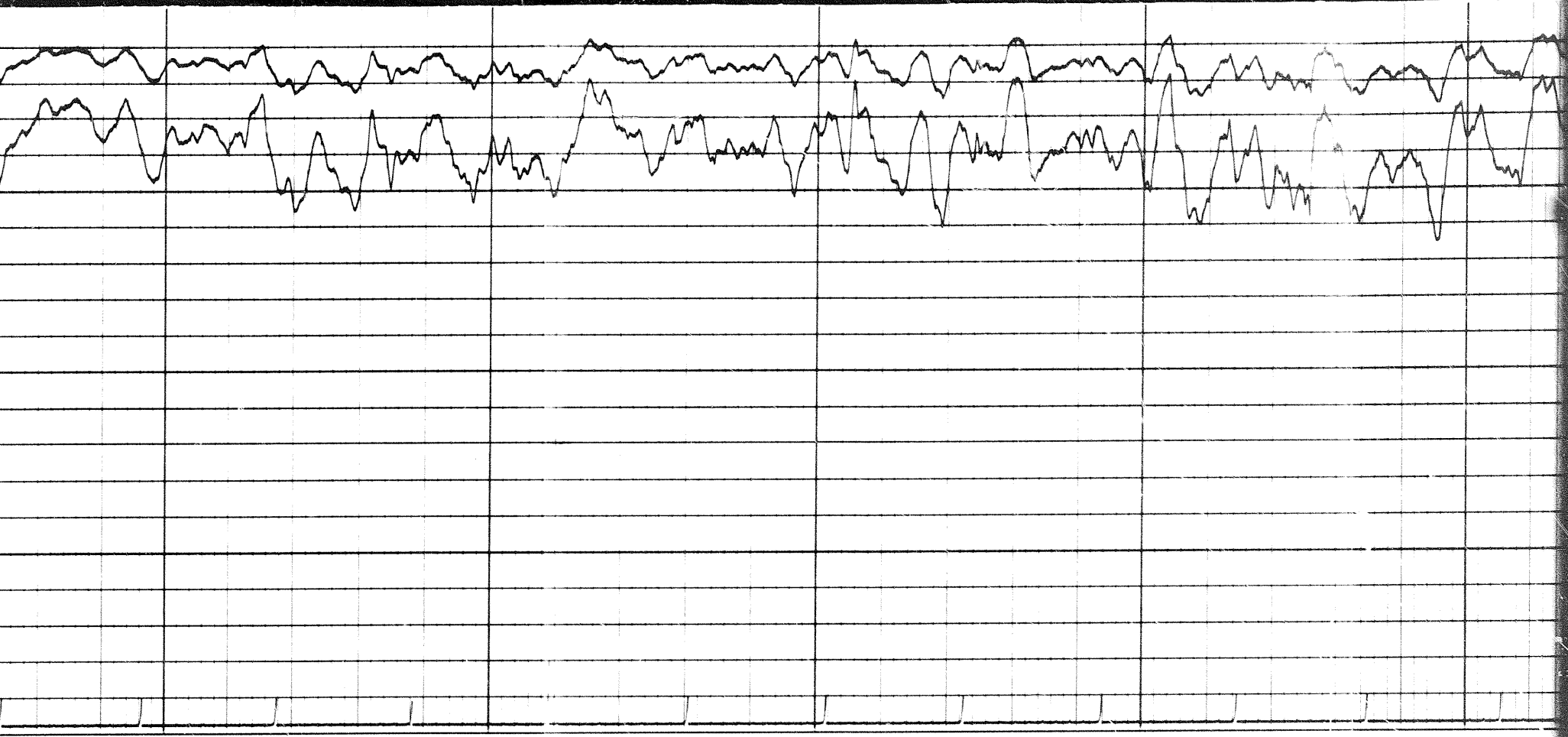

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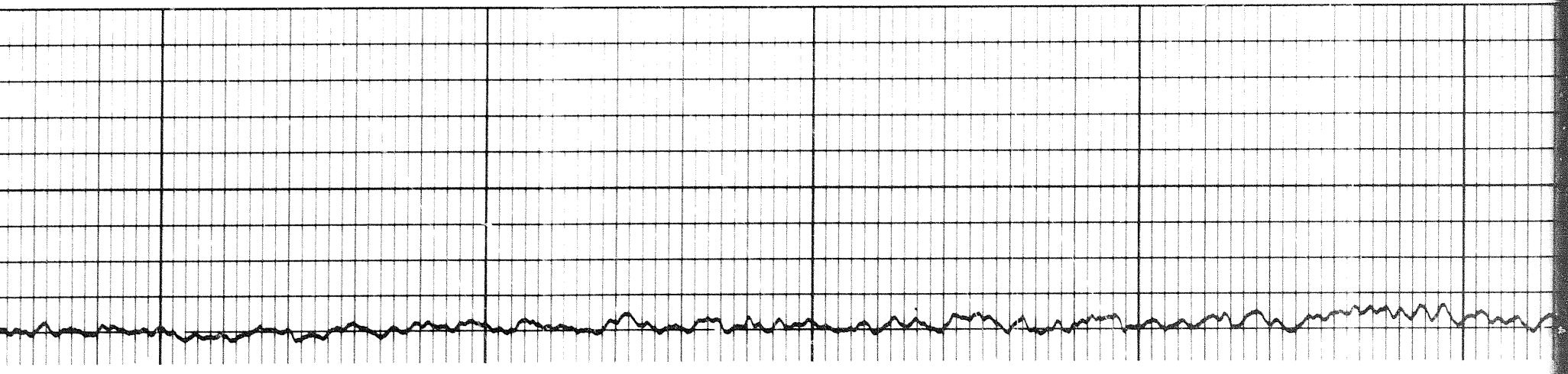

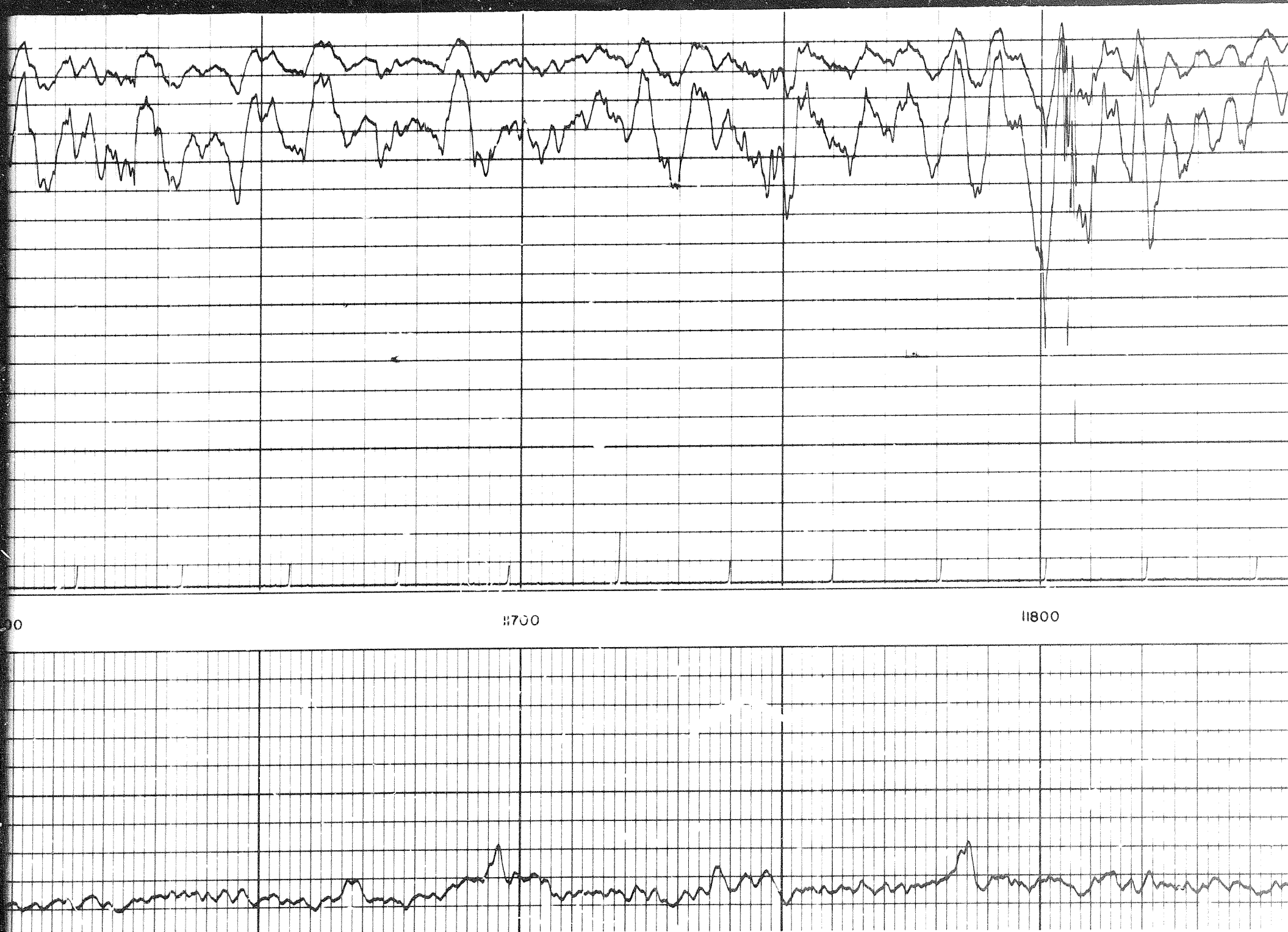
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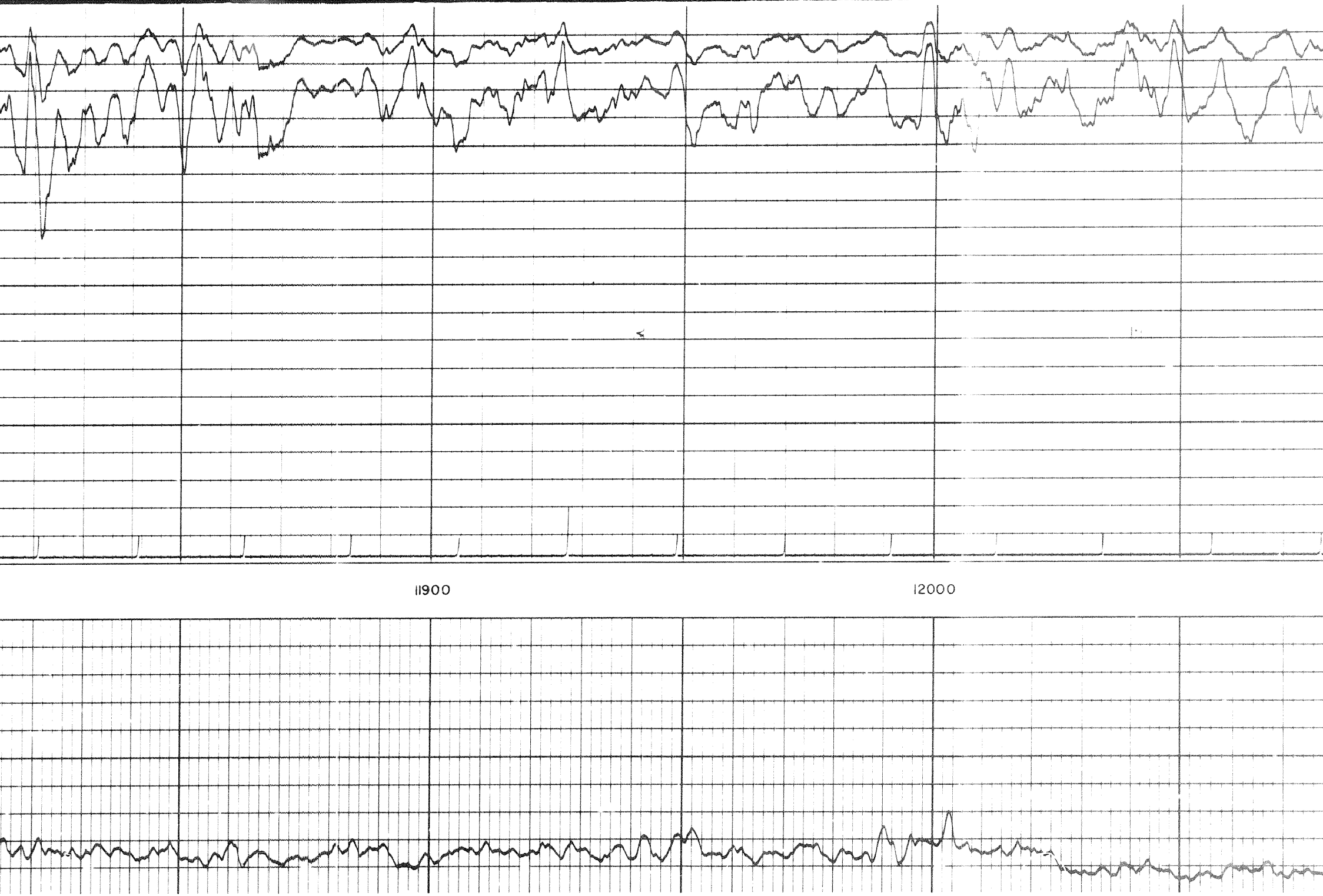
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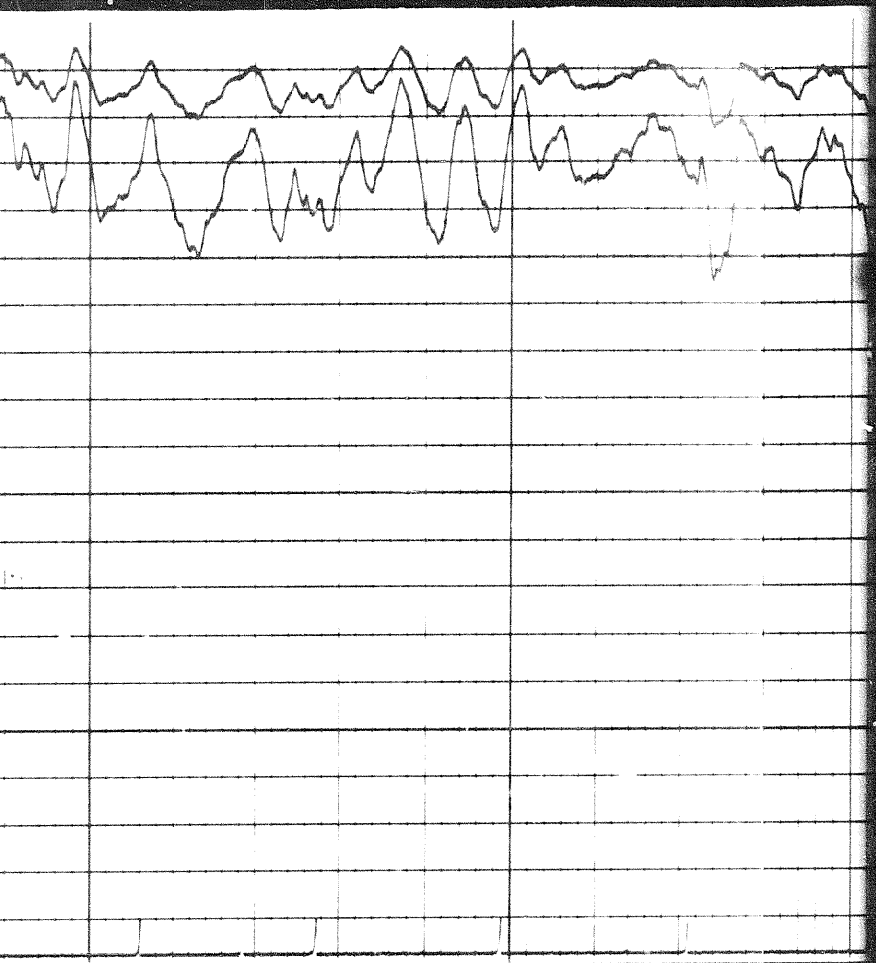

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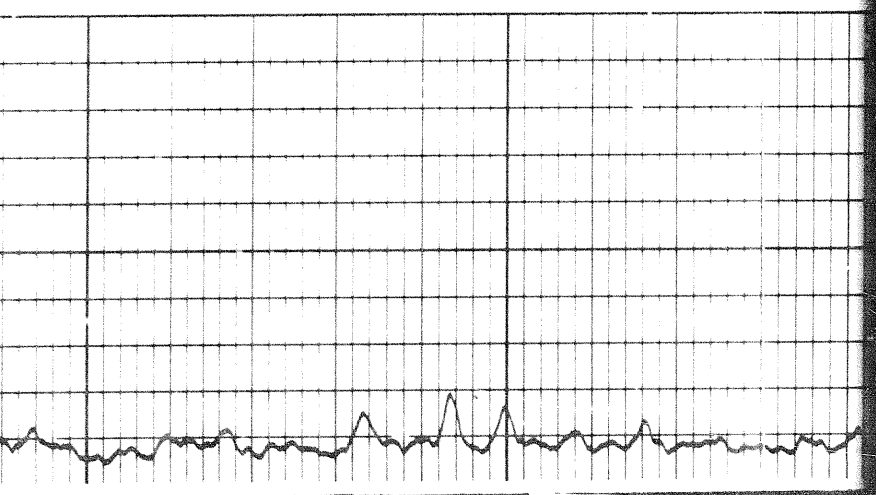

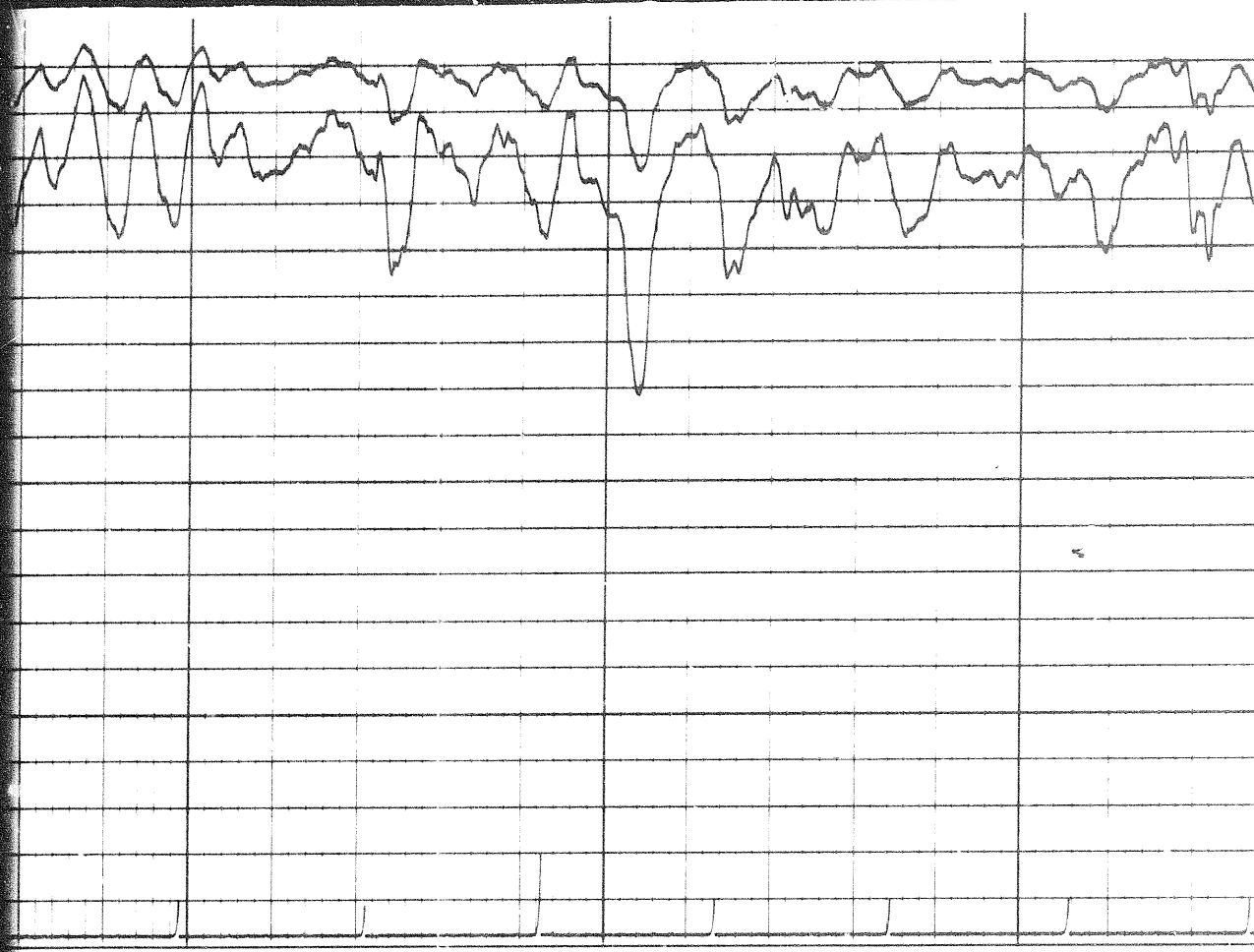

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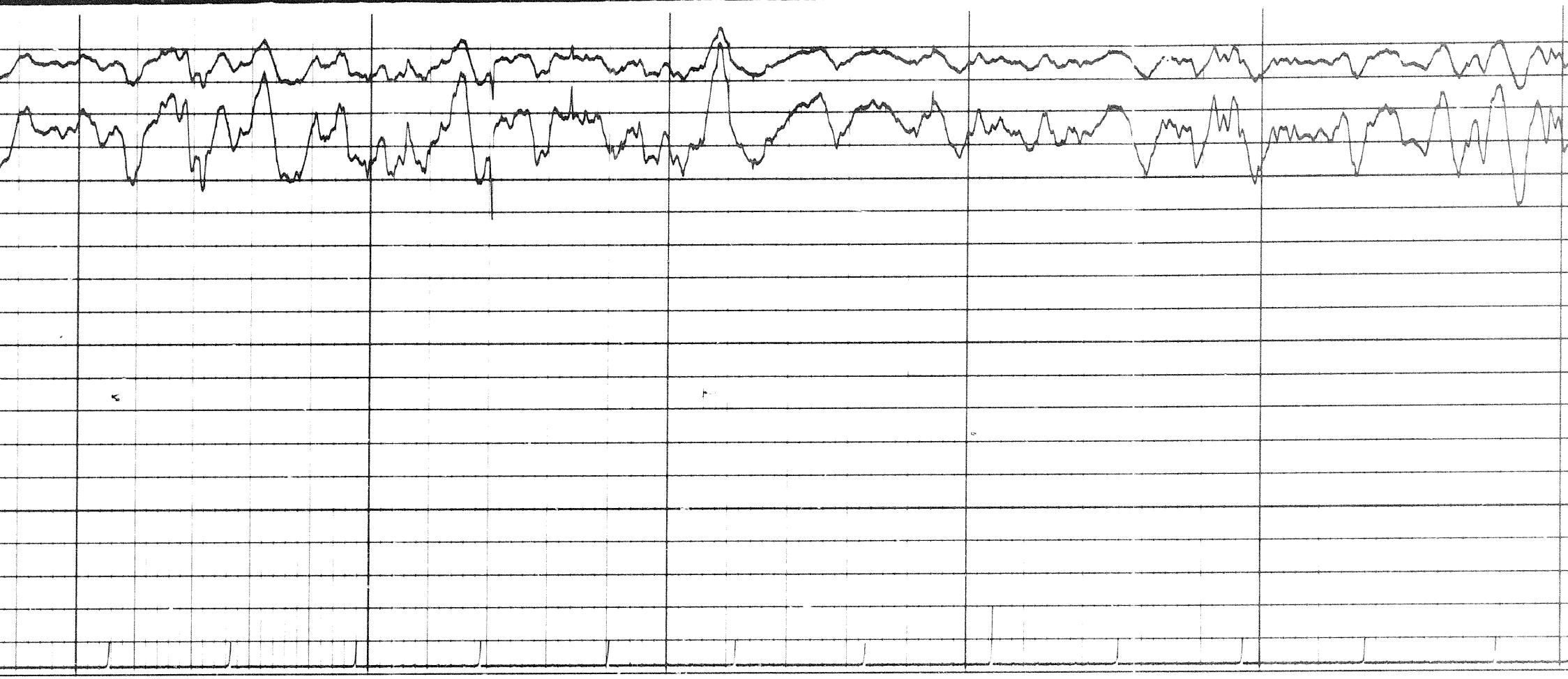
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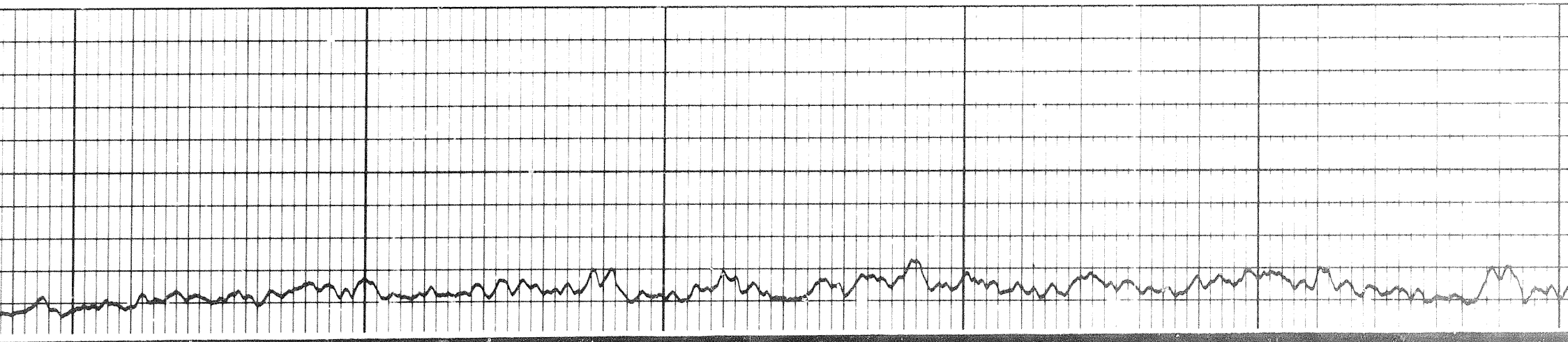

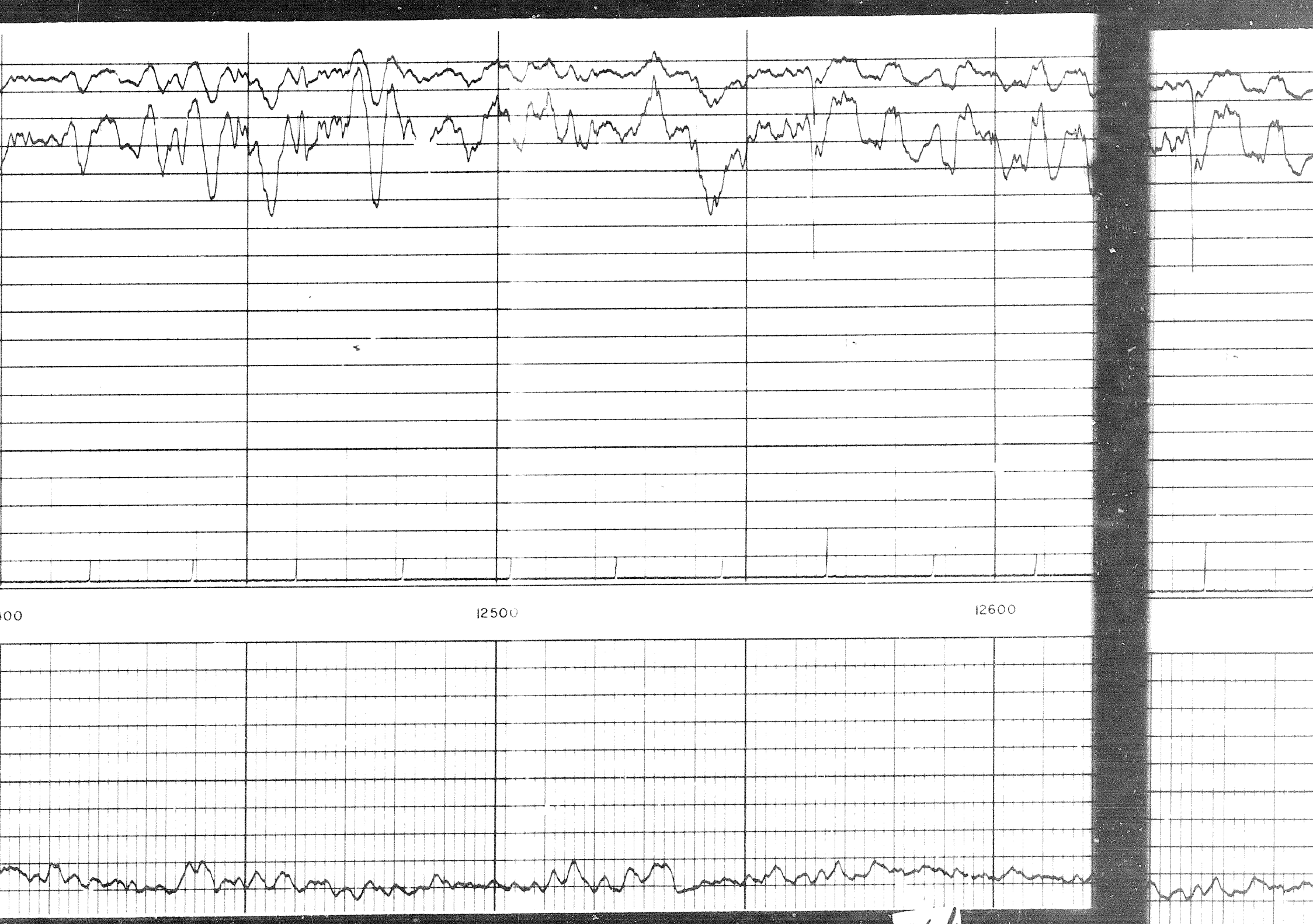
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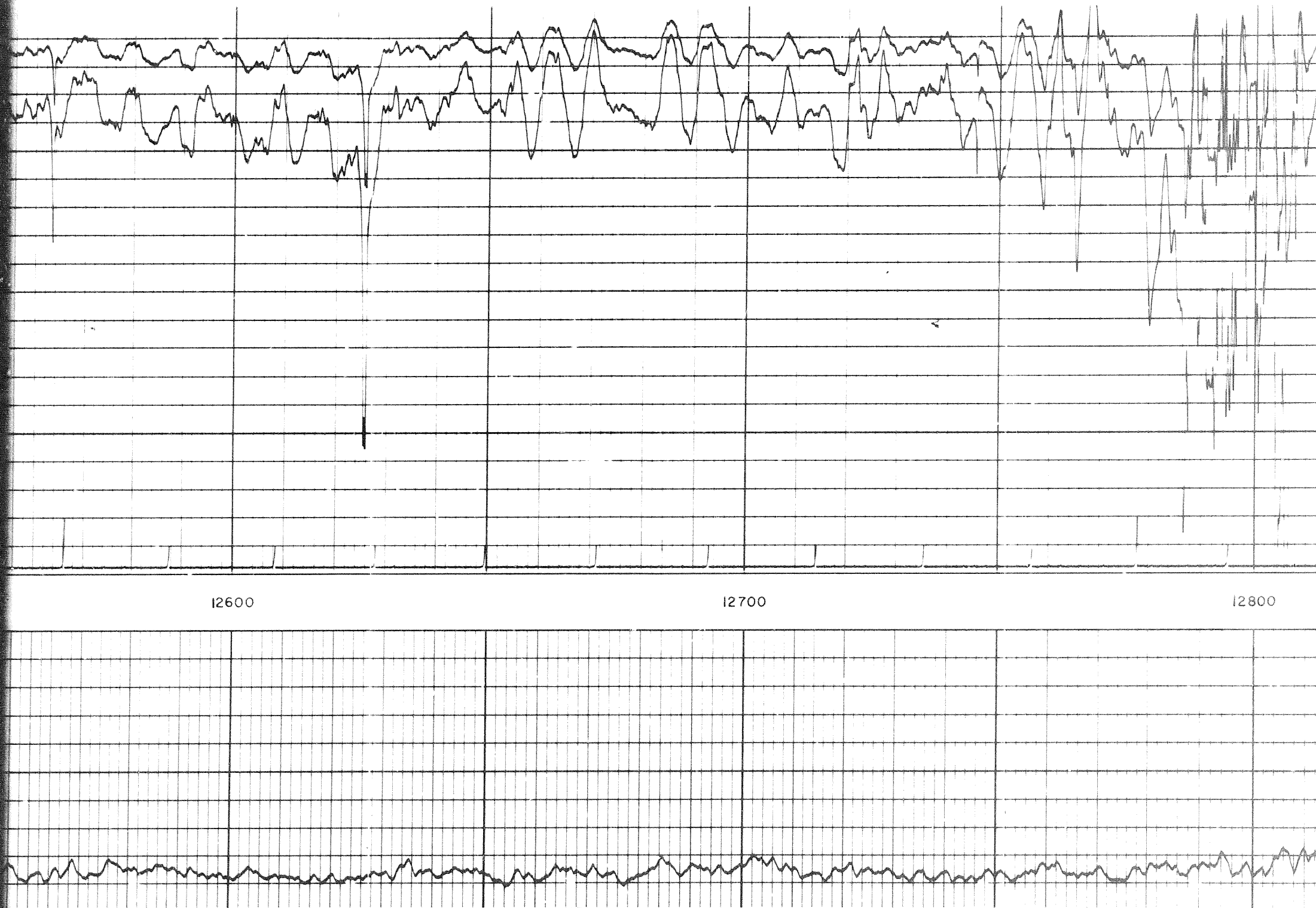
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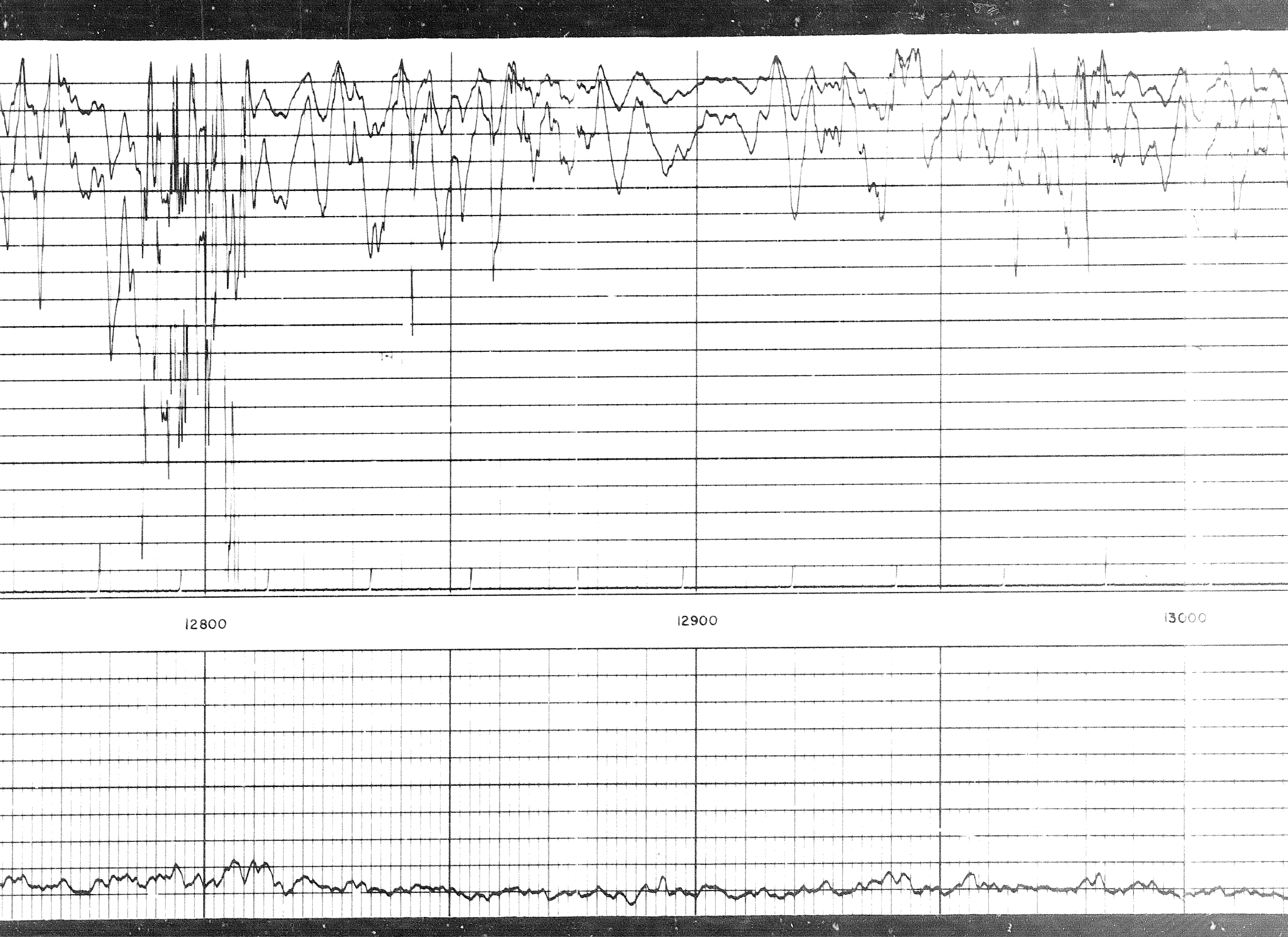
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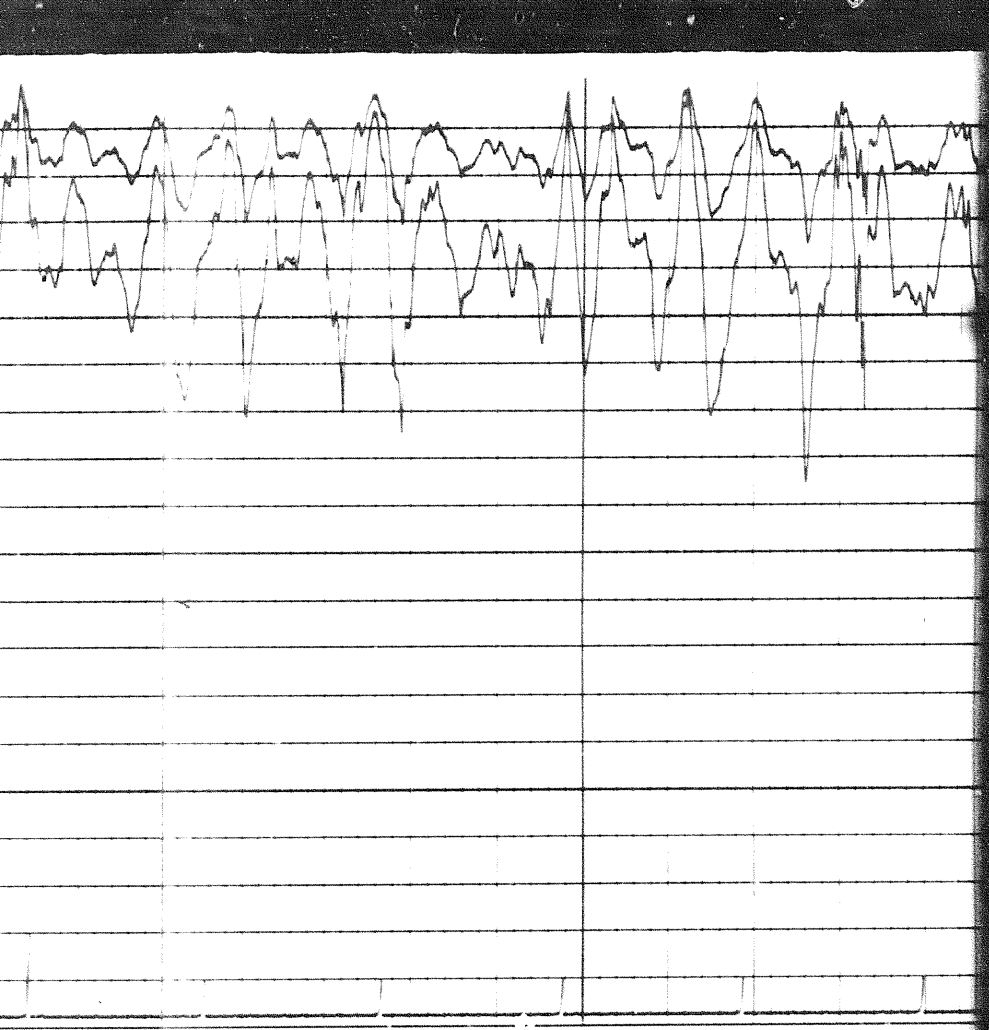

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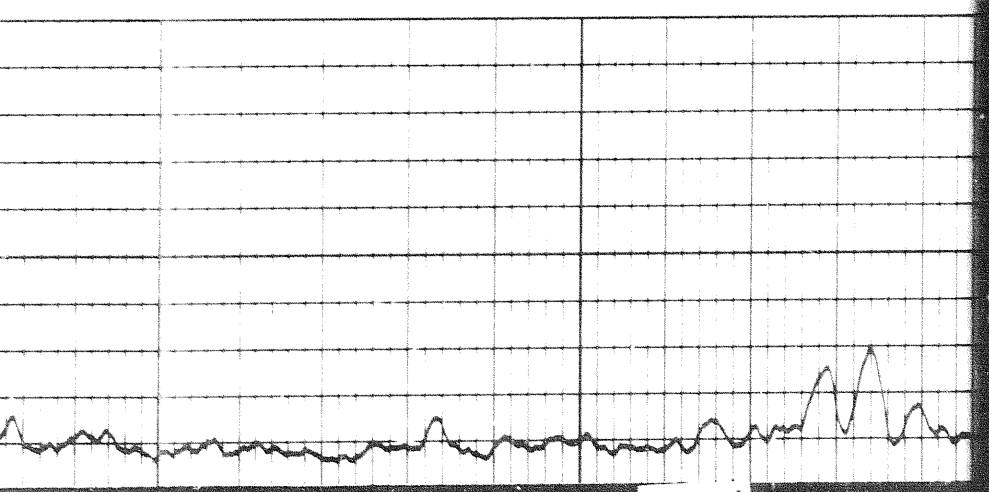

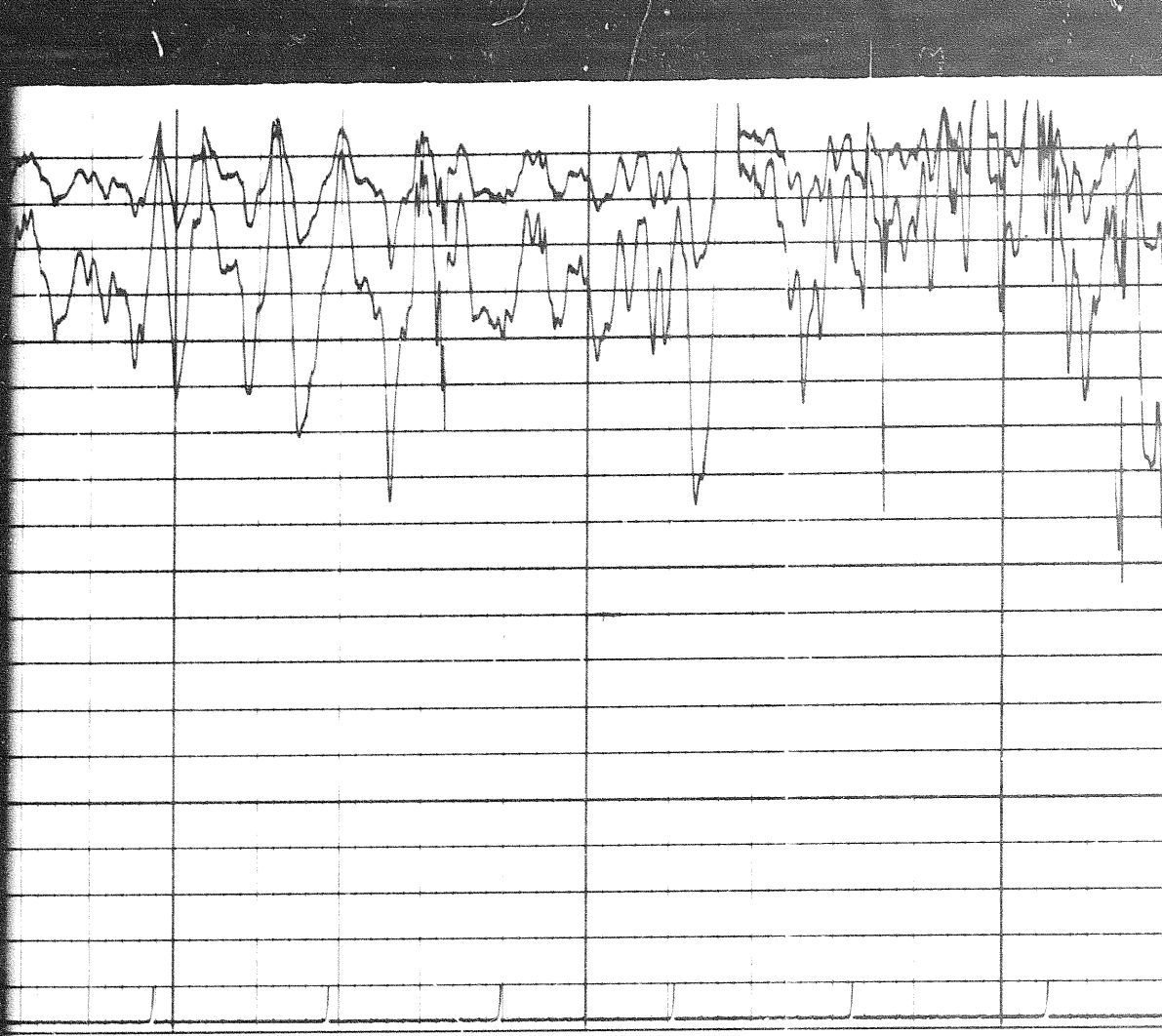

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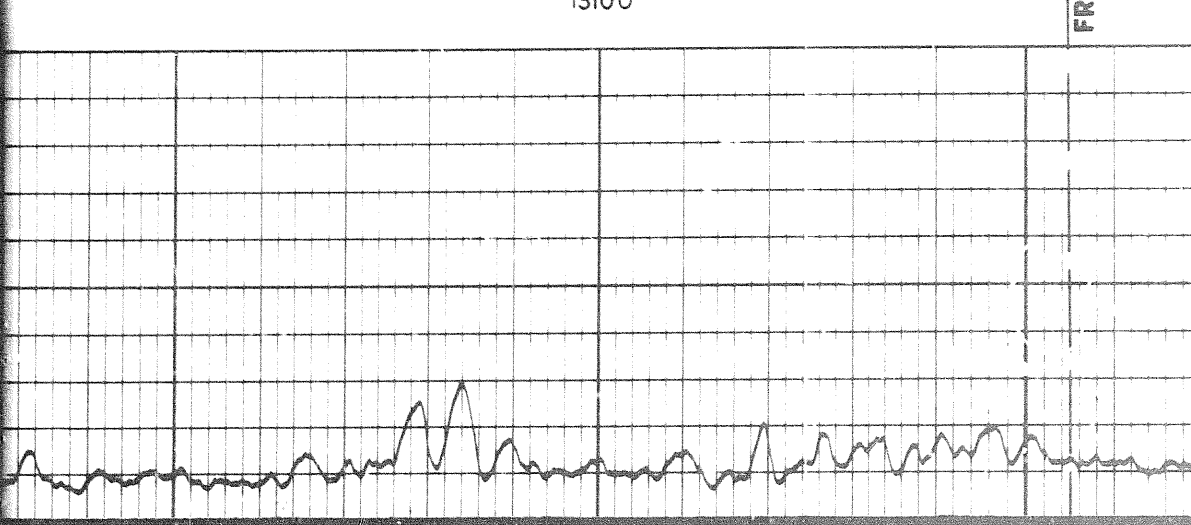
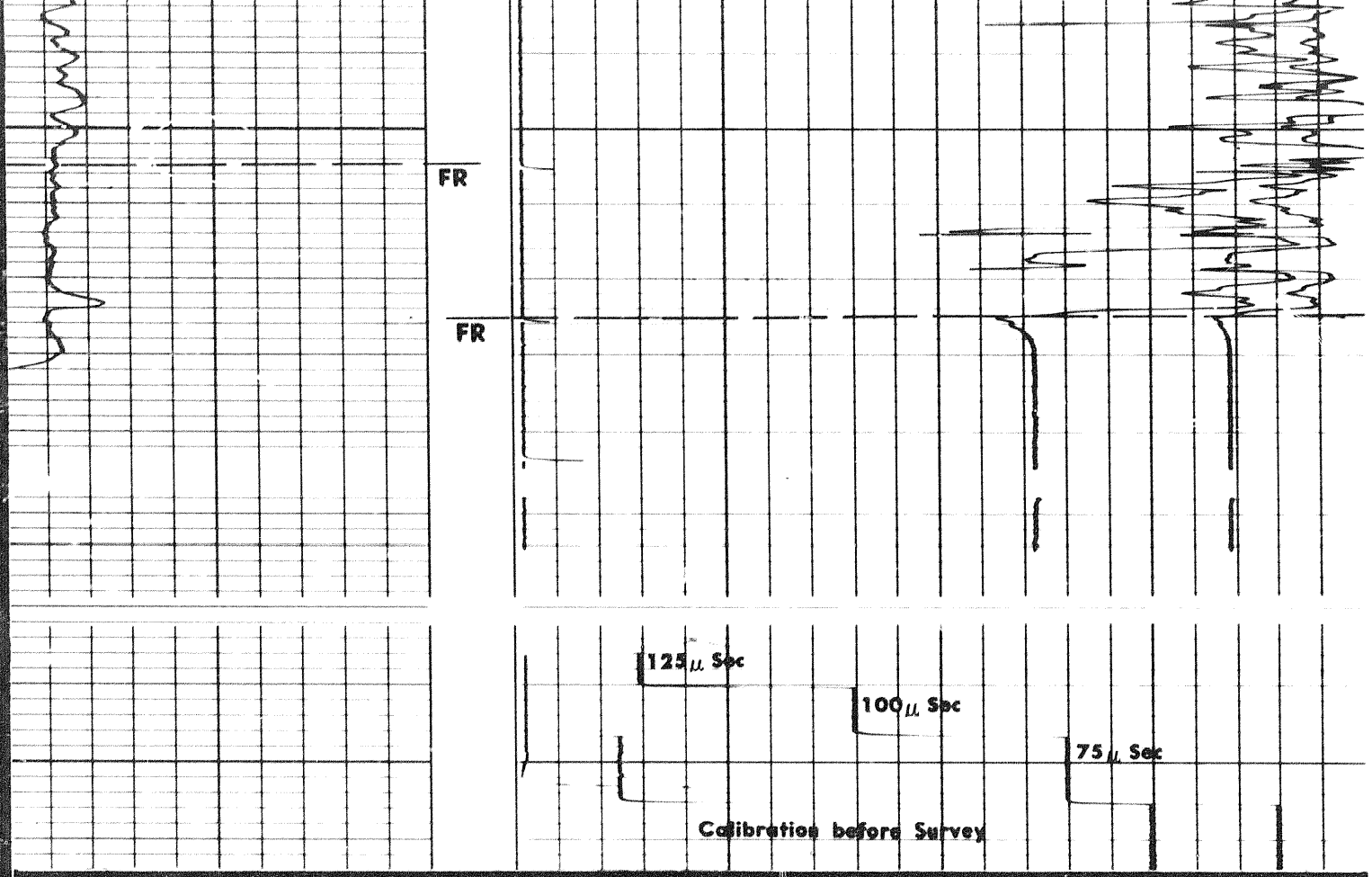




DETAIL LOG

RUN #2

5" = 100'

GAMMA RAY

API UNITS

INTERVAL 1972 to 6057

Sens 400 TC 2

Logging Speed 30 ft/min

ZERO 0 div. to left

0 160

160 320

INTERVAL _____ to _____

Sens _____ TC _____

Logging Speed _____ ft/min

ZERO _____ div. to left

SONIC

T

R

R

Spacing 3'

Pickup Span 1'

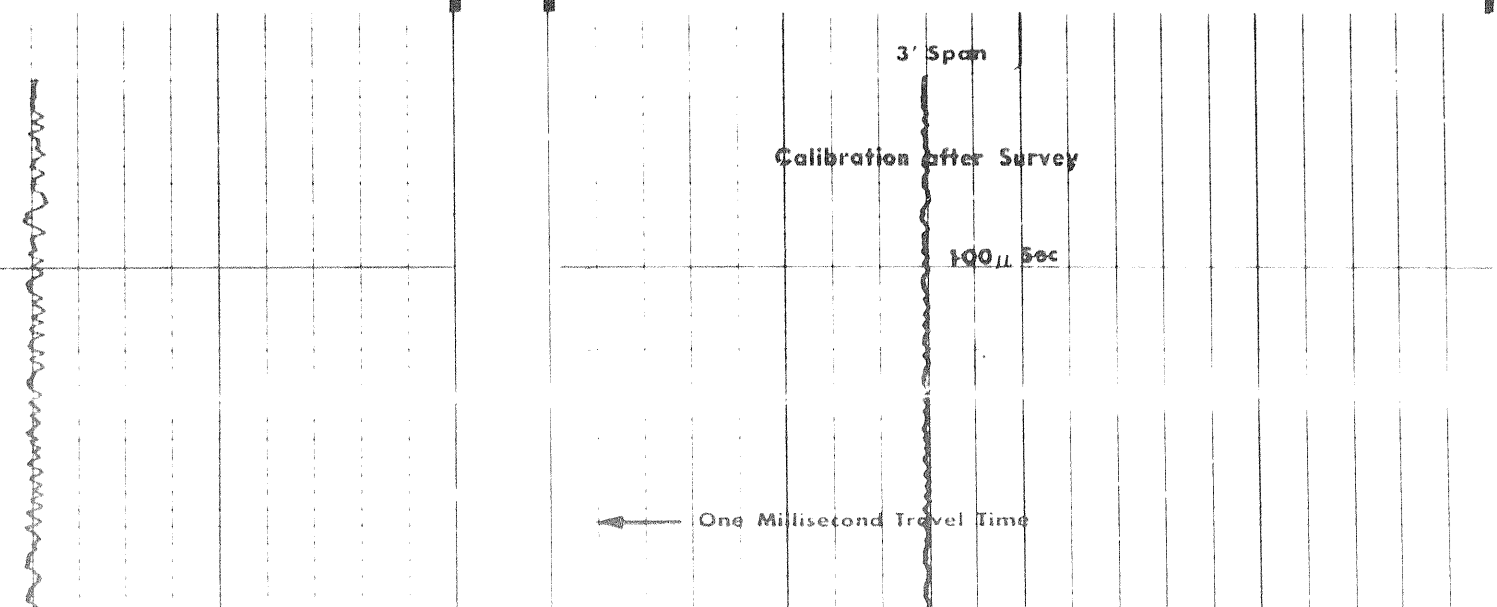
INTERVAL TRANSIT TIME

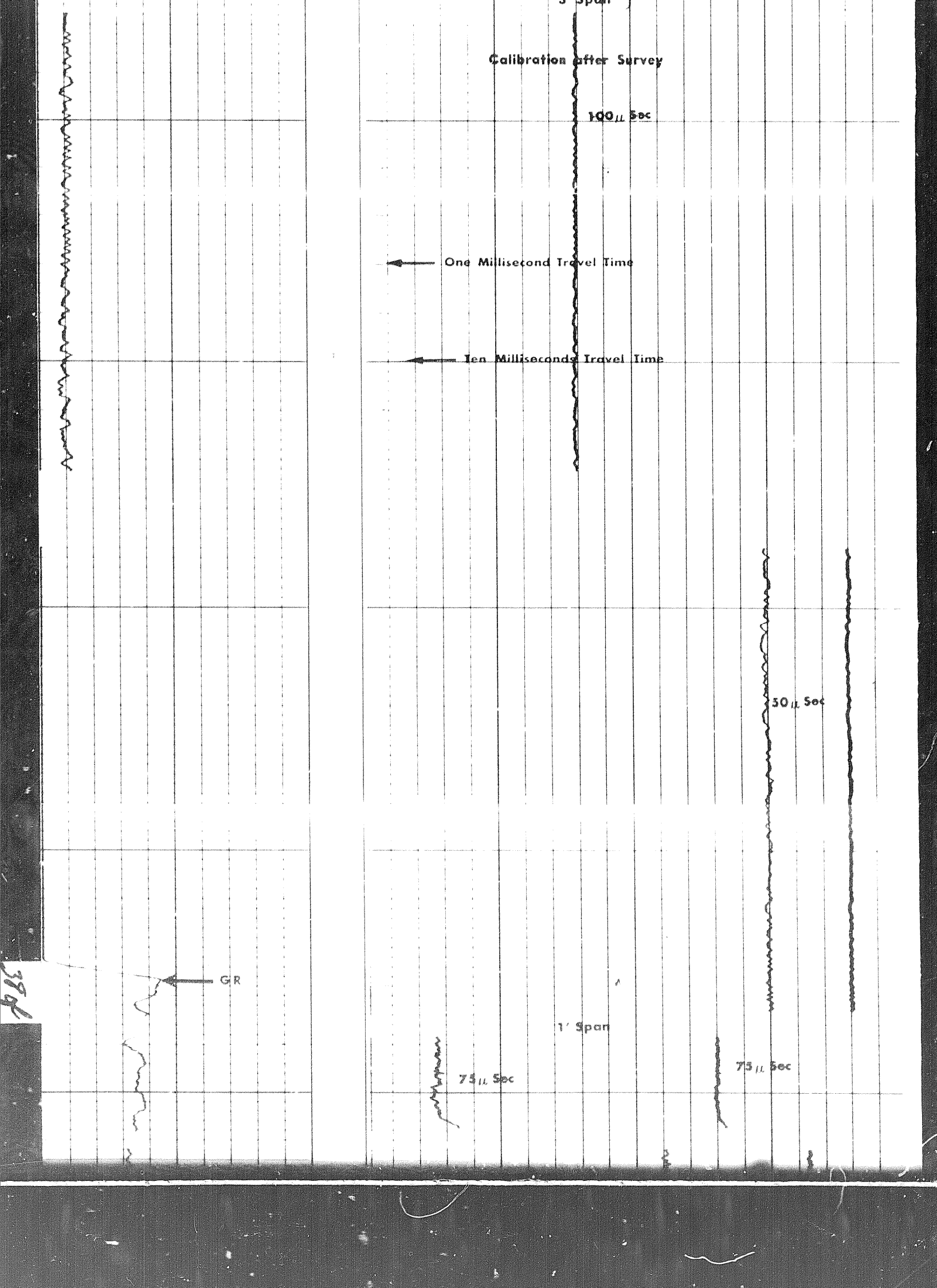
microseconds per foot

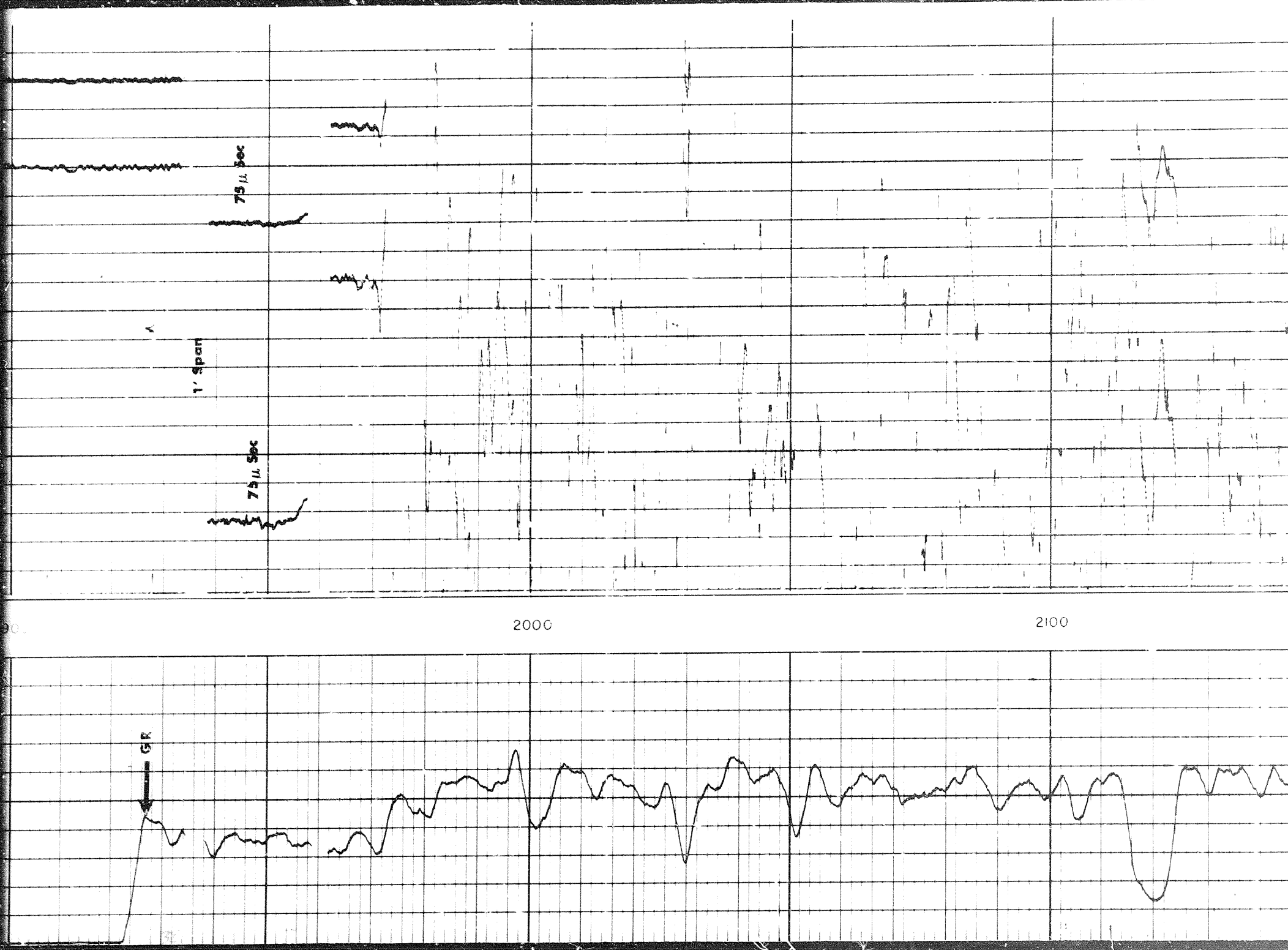
◄ Increases

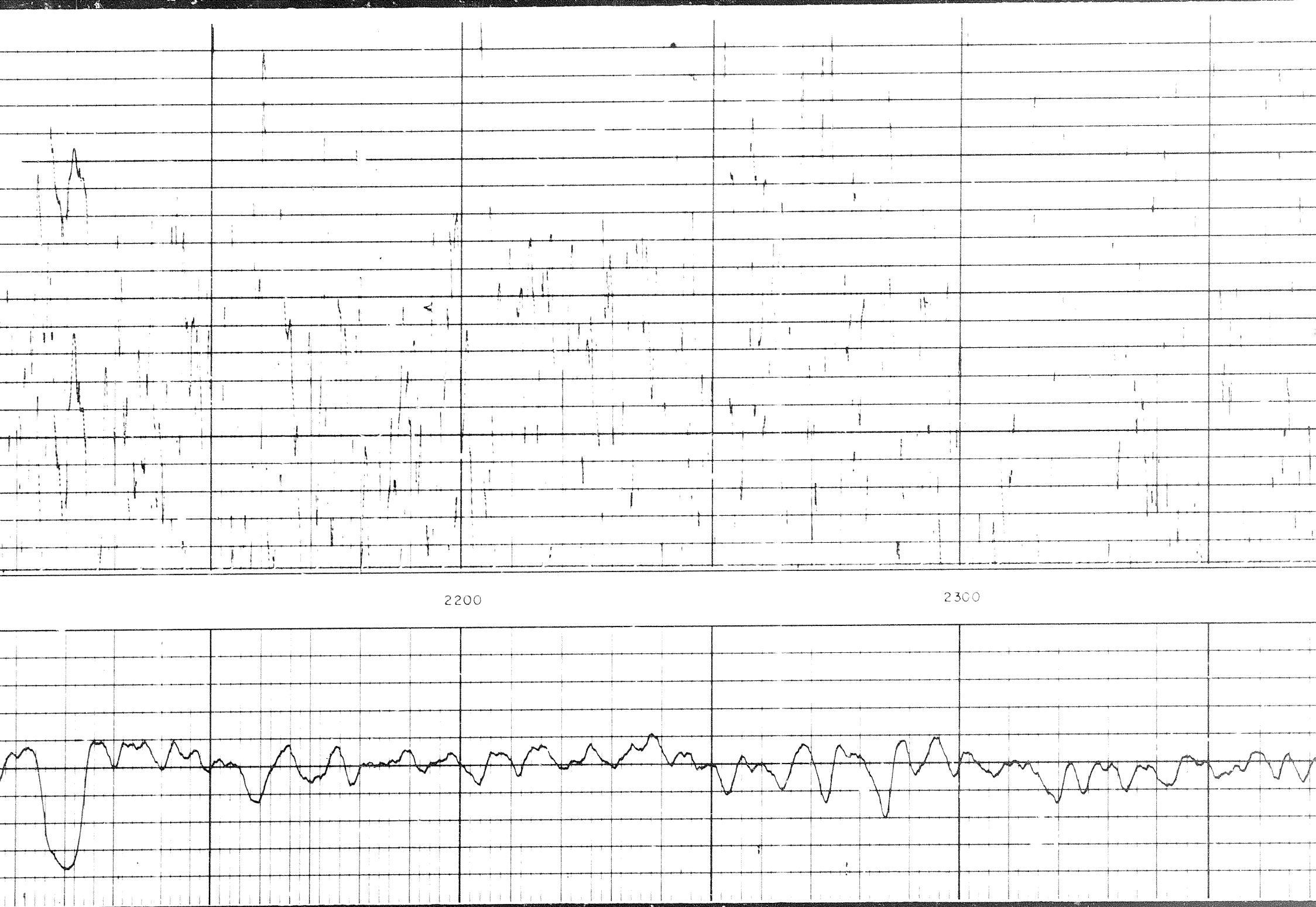
140 90 40

180 60 40




3' Span
Calibration after Survey
100 μ Sec
One Millisecond Travel Time
Ten Milliseconds Travel Time
30 μ Sec
GR
1' Span
75 μ Sec
75 μ Sec


75 μ Sec
1' Span
75 μ Sec
2000
2100
GR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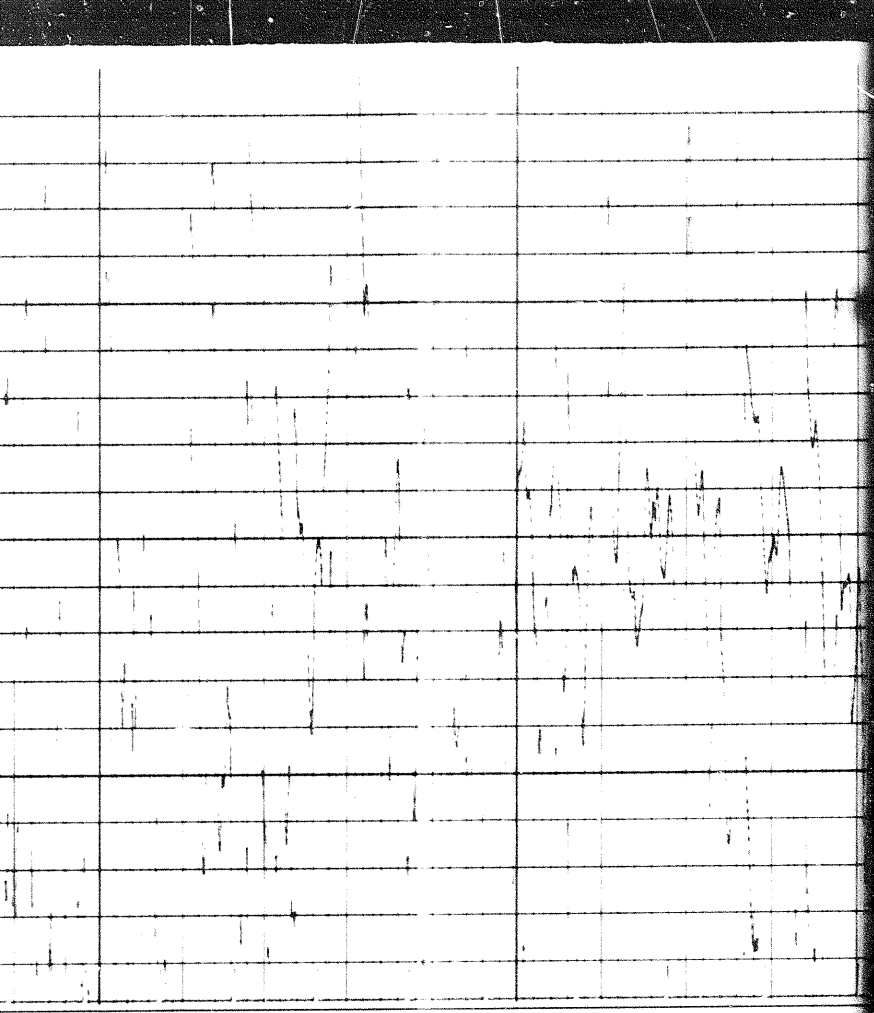

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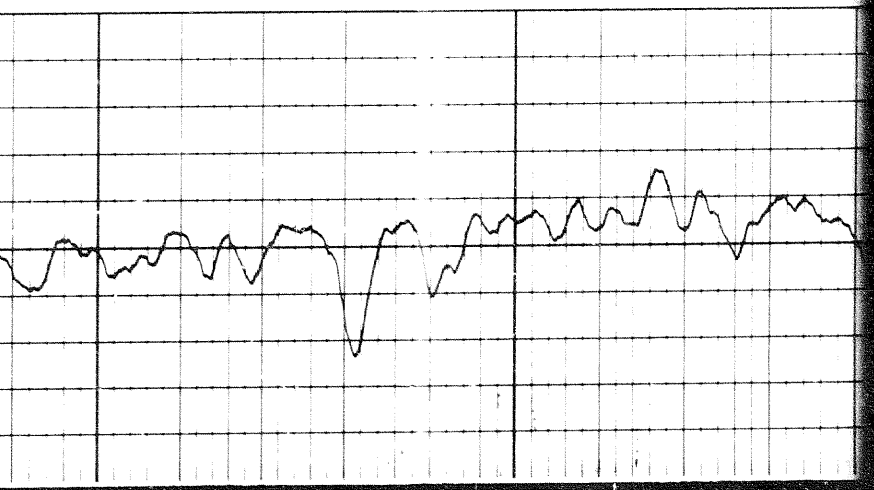

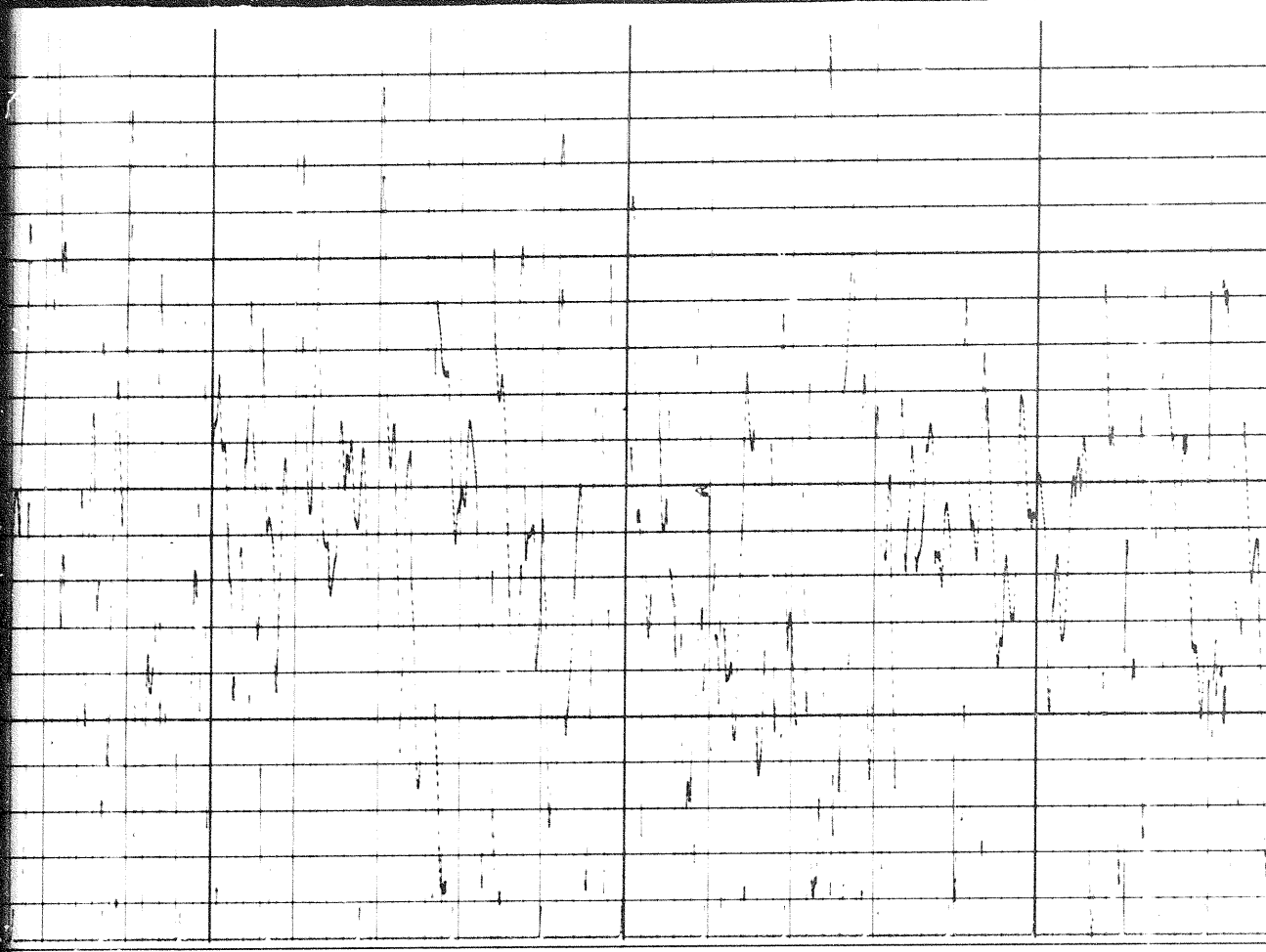

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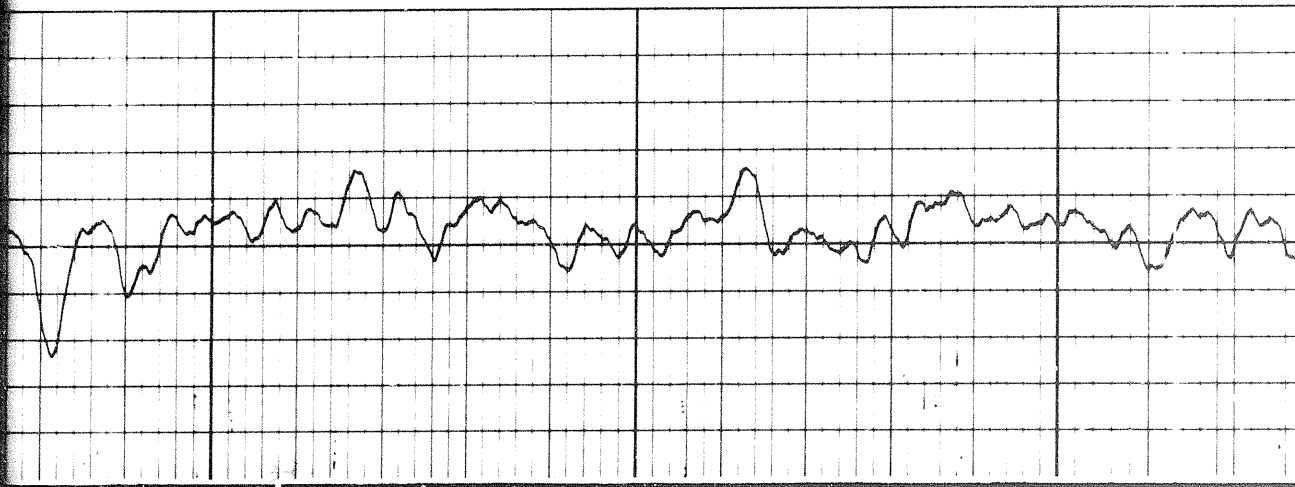

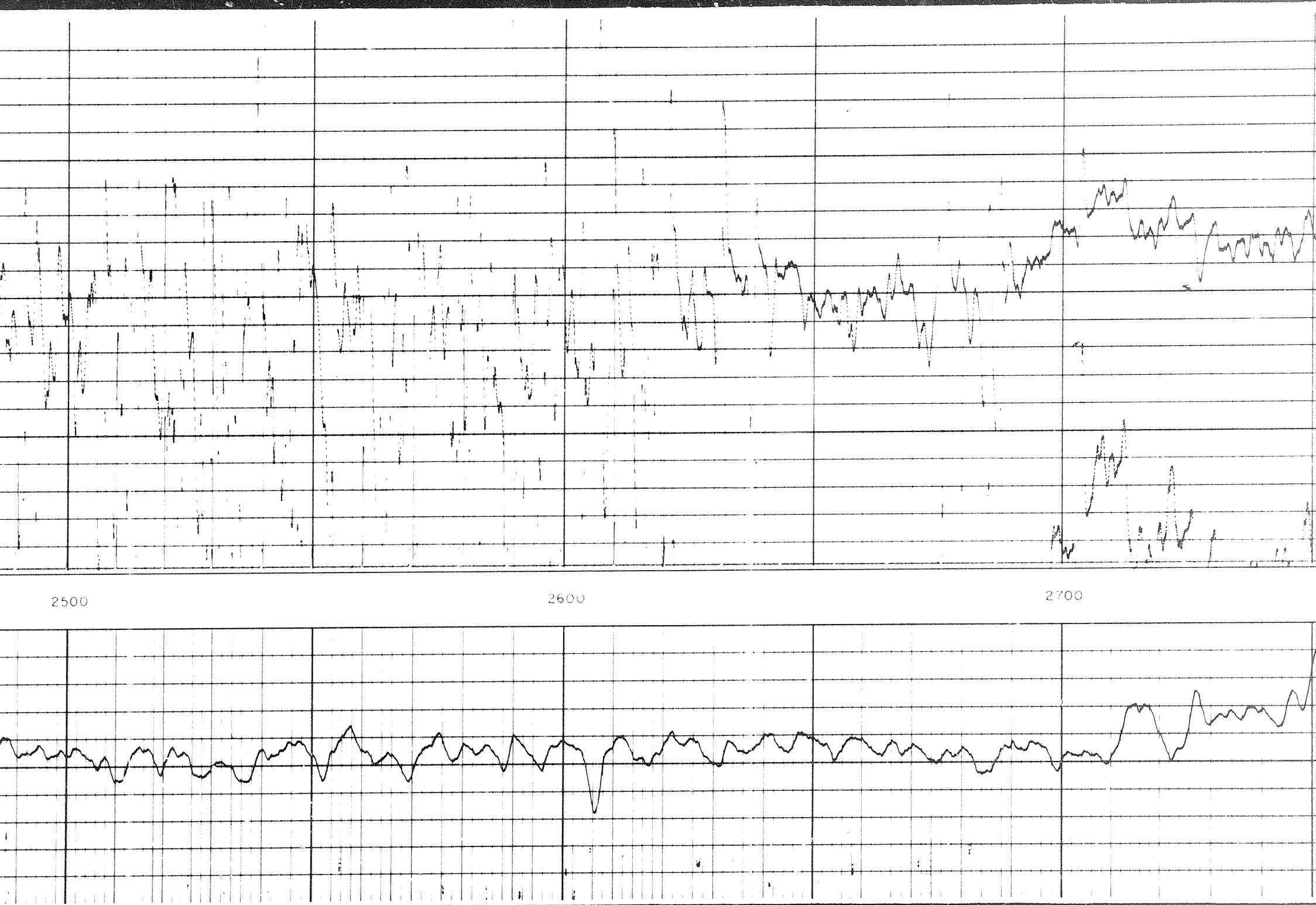
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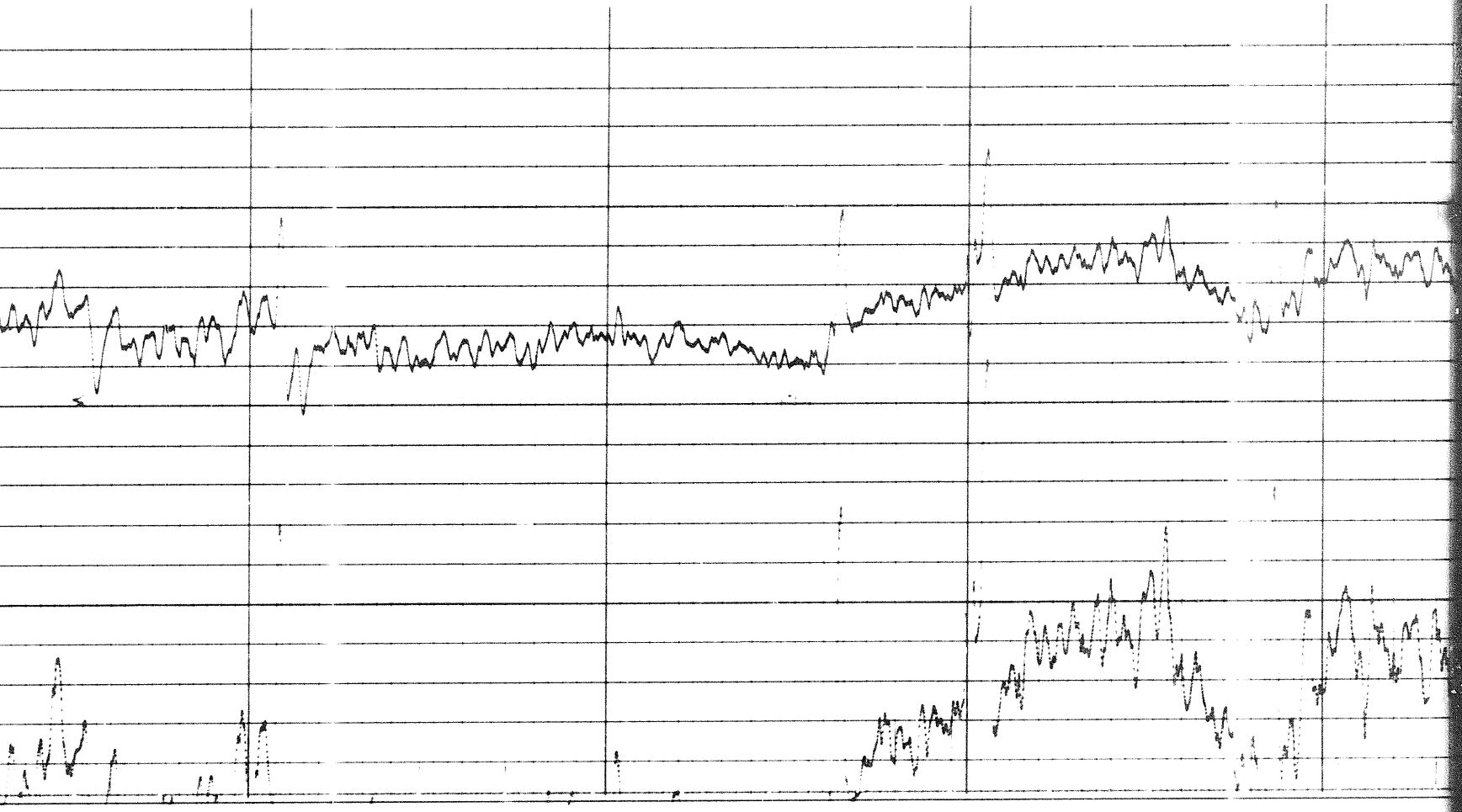
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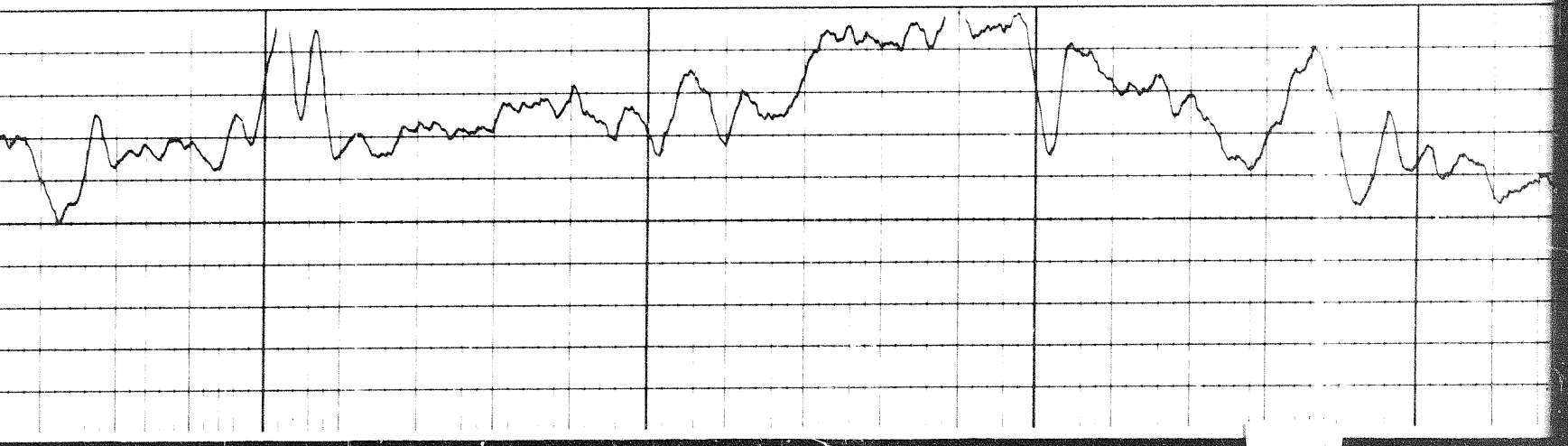

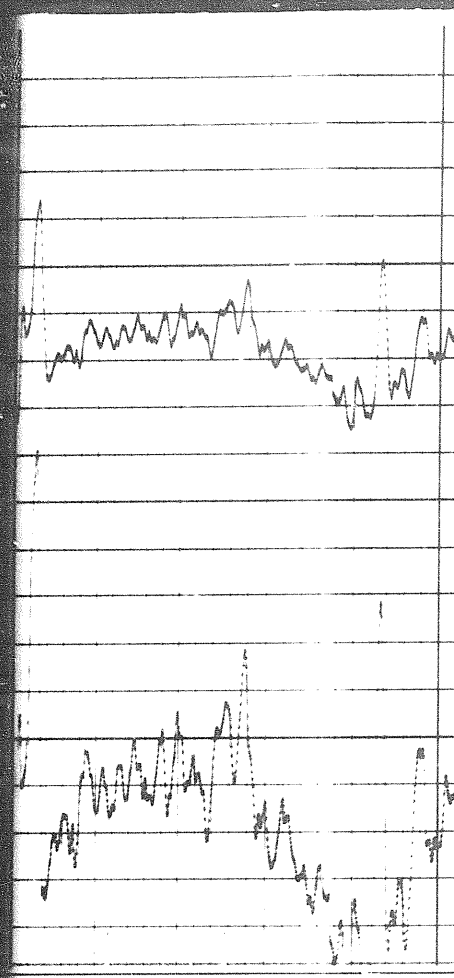
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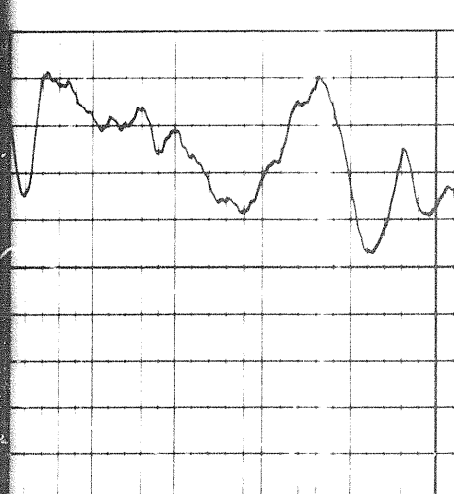

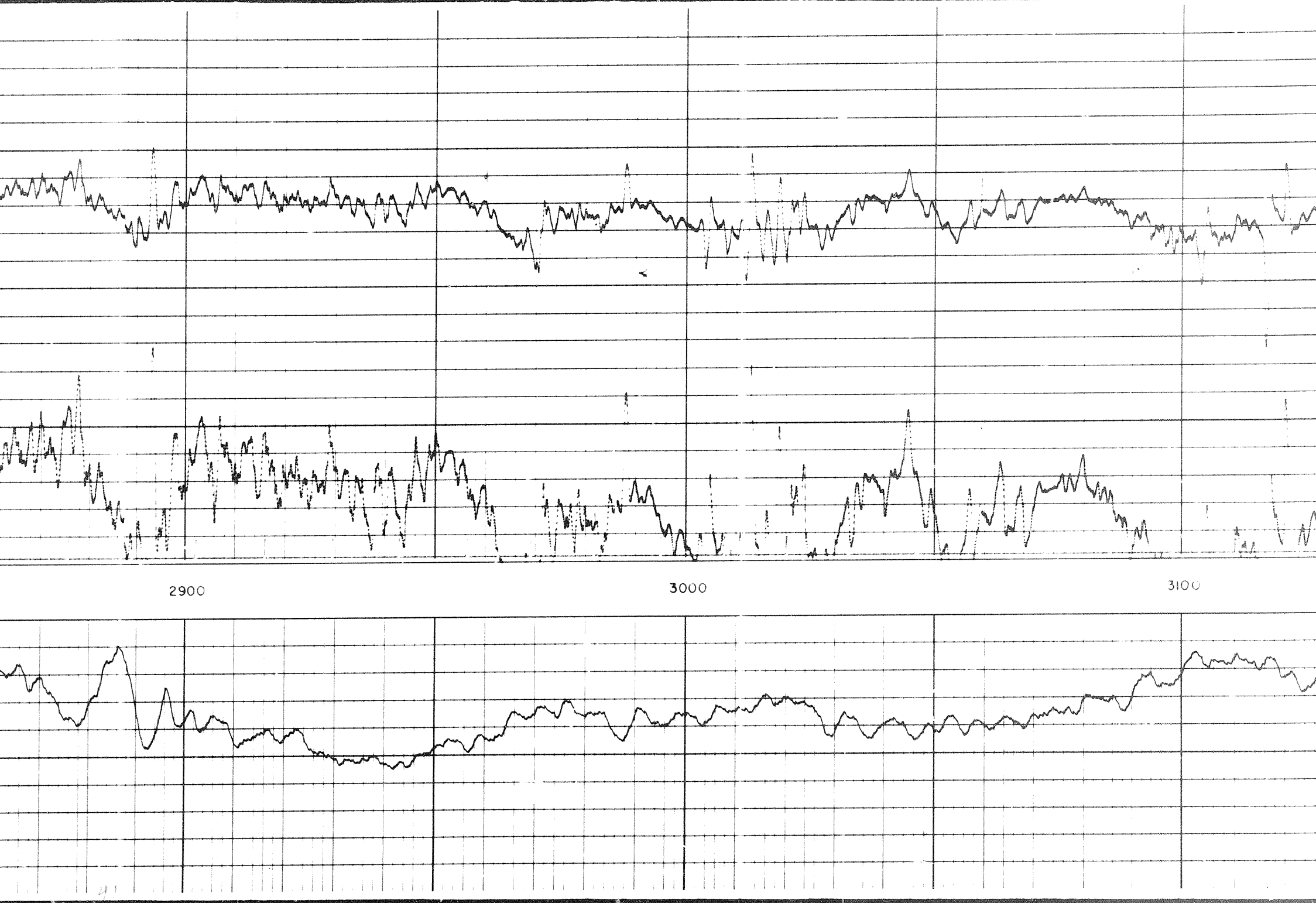
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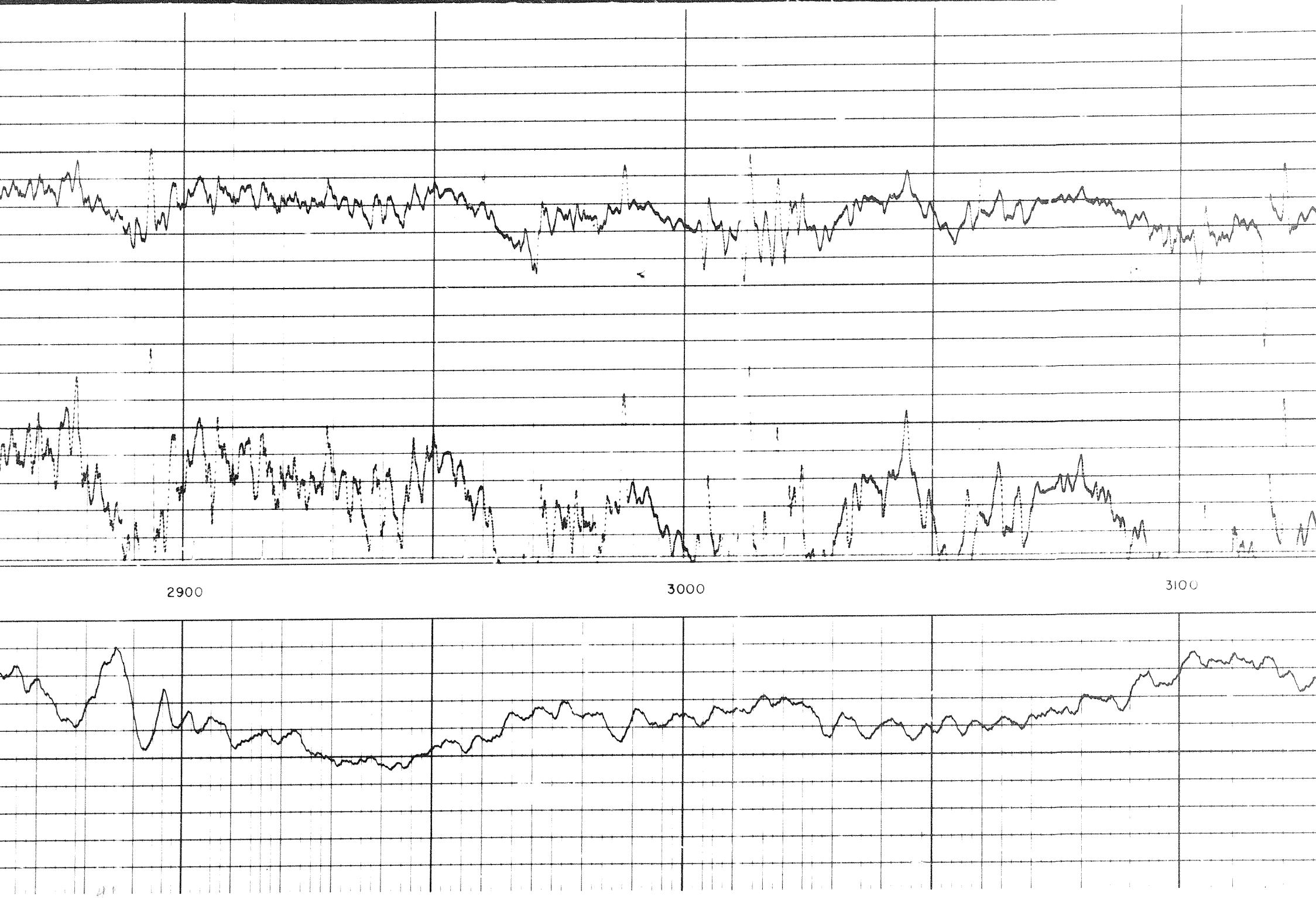
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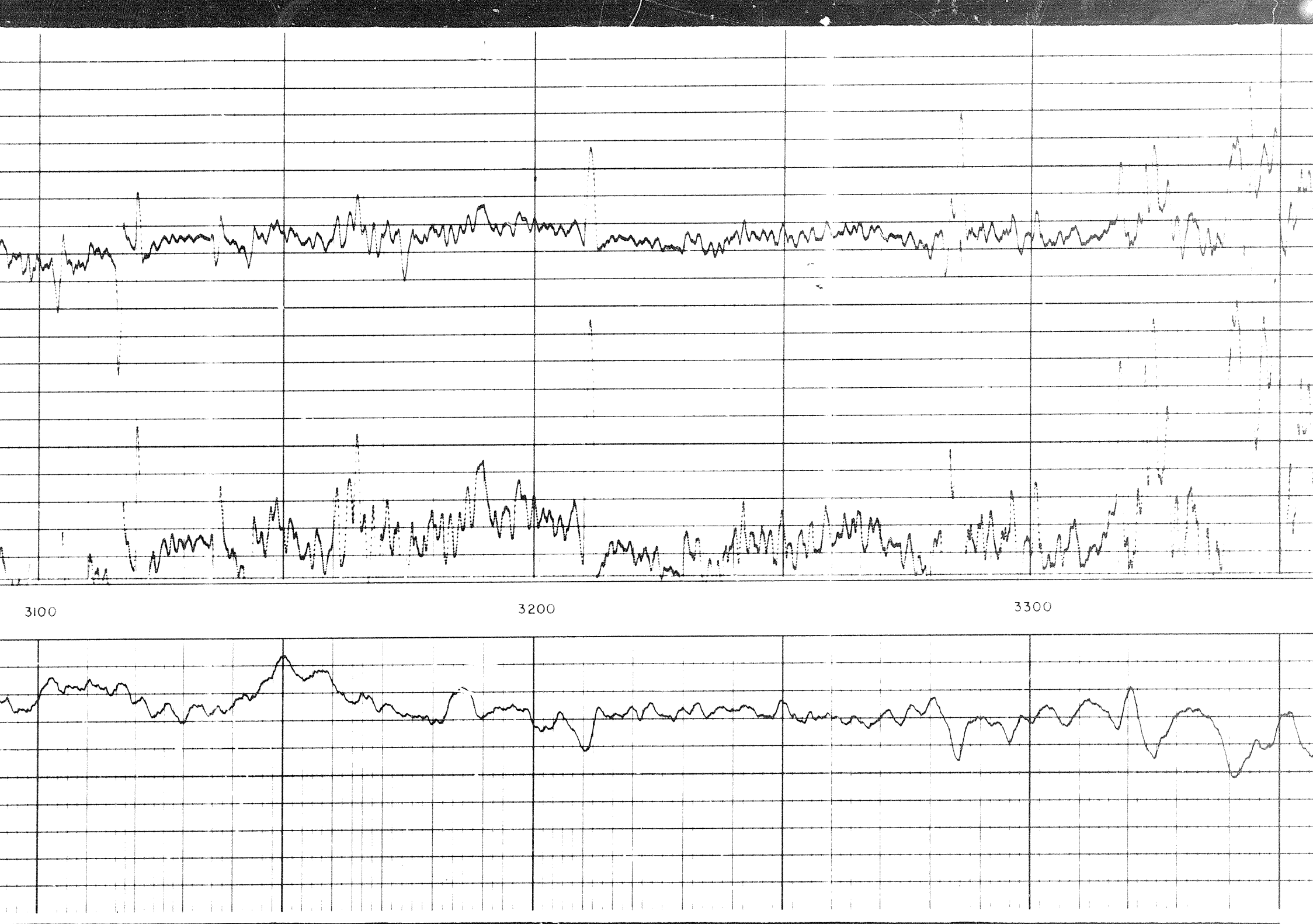
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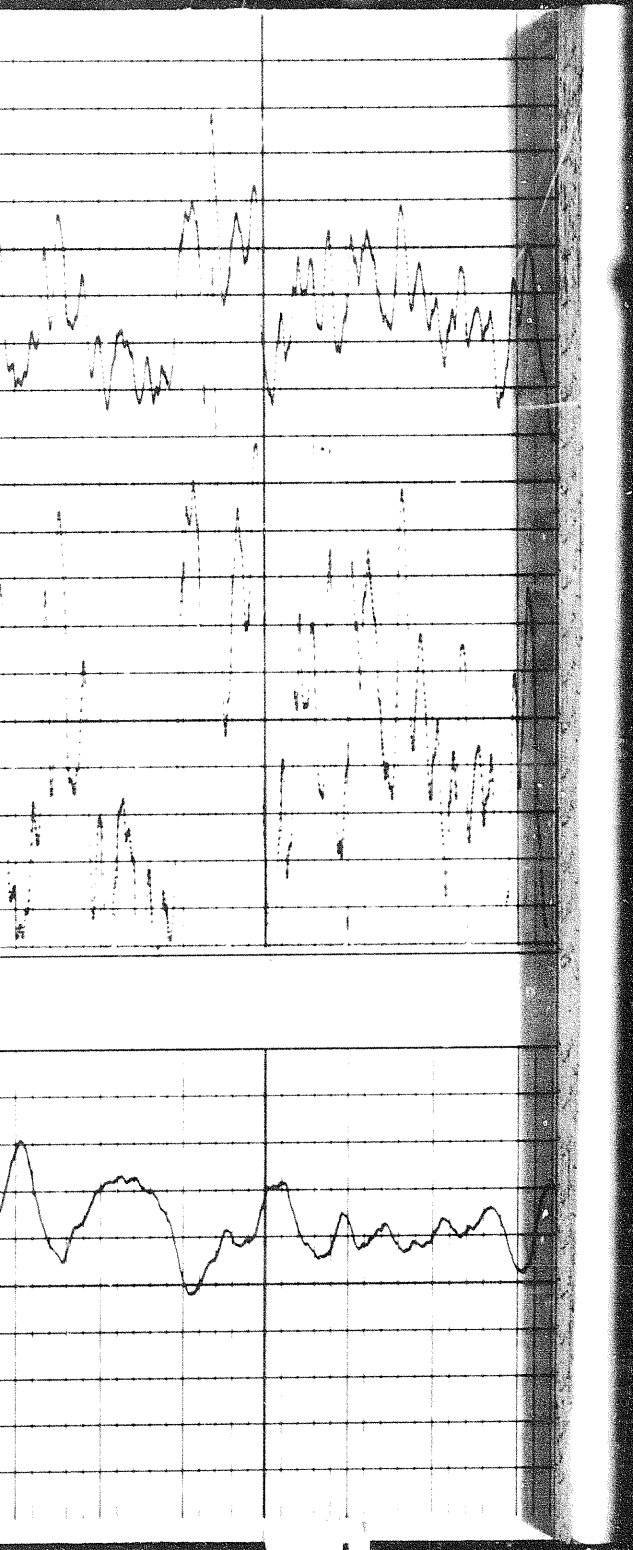

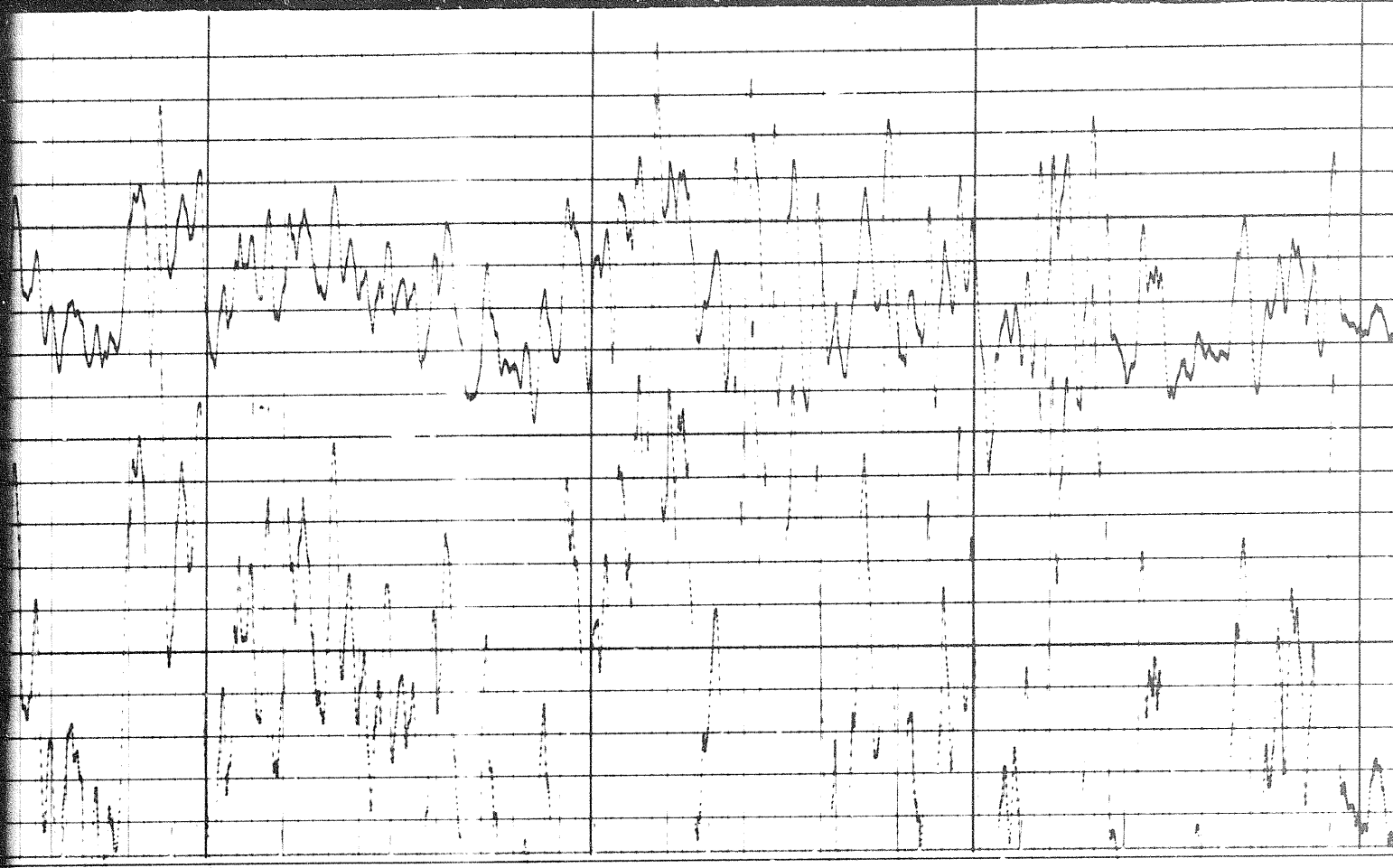
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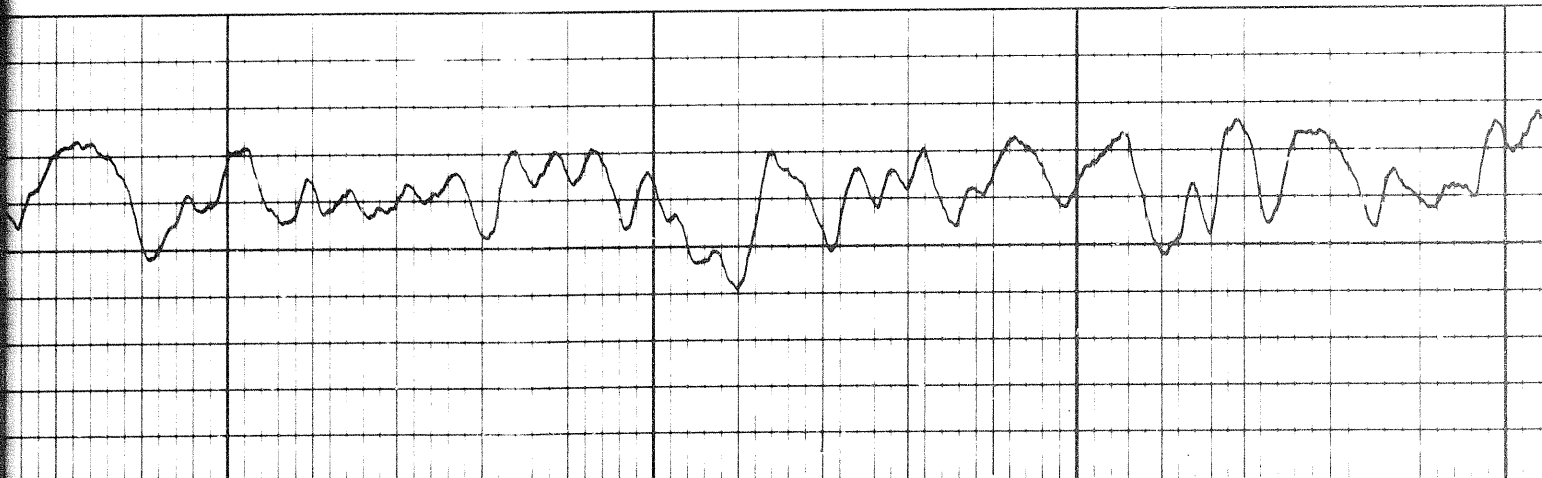

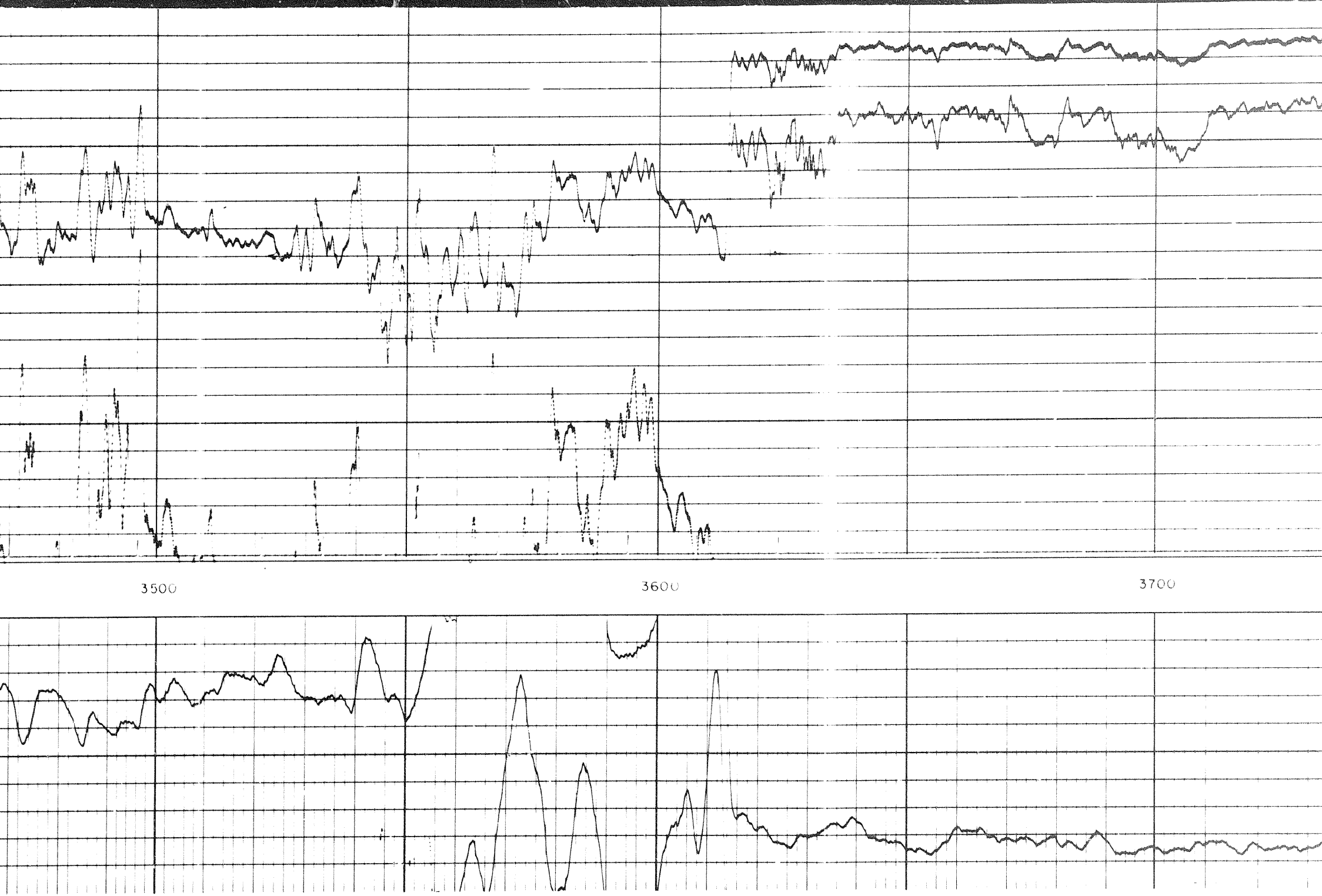
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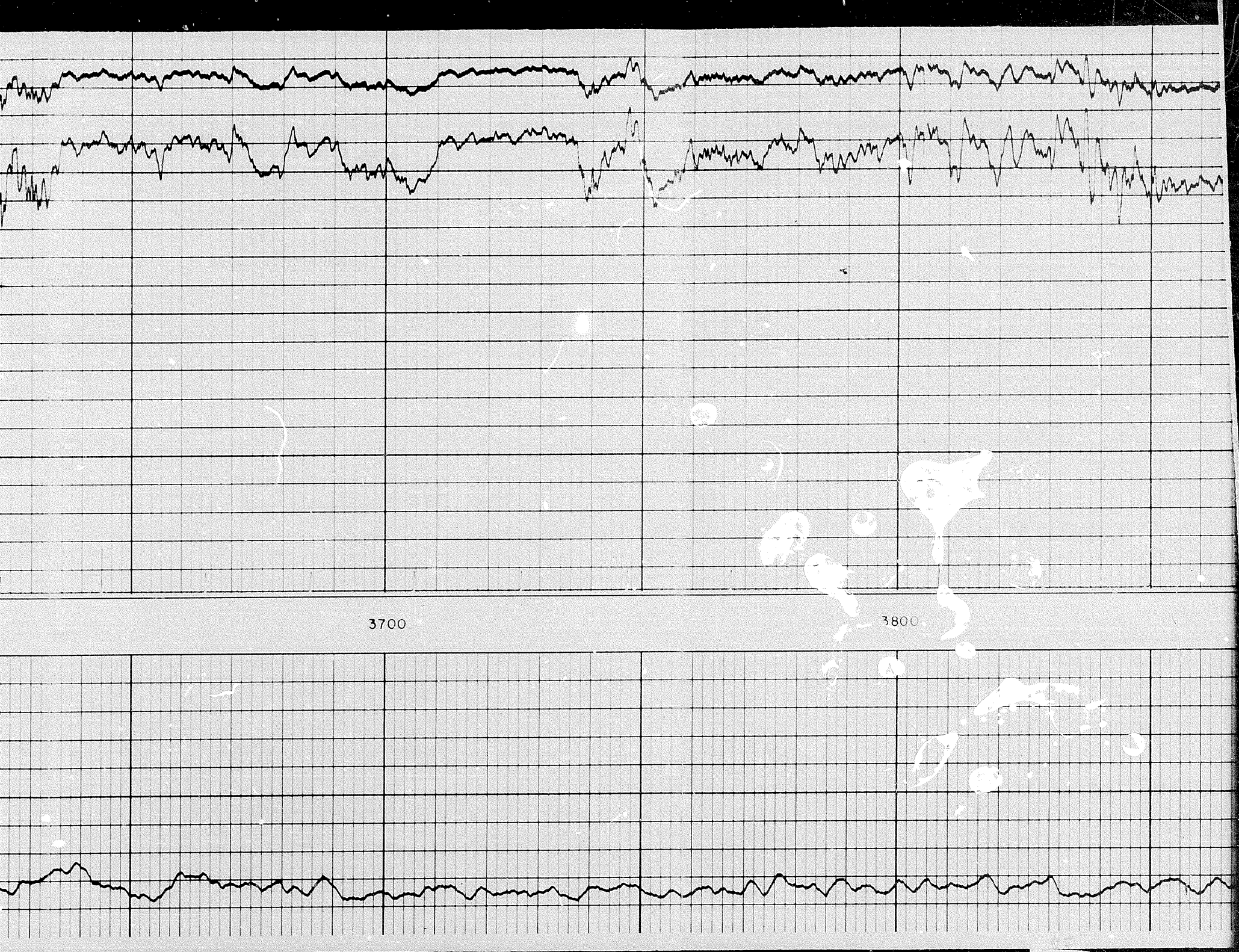
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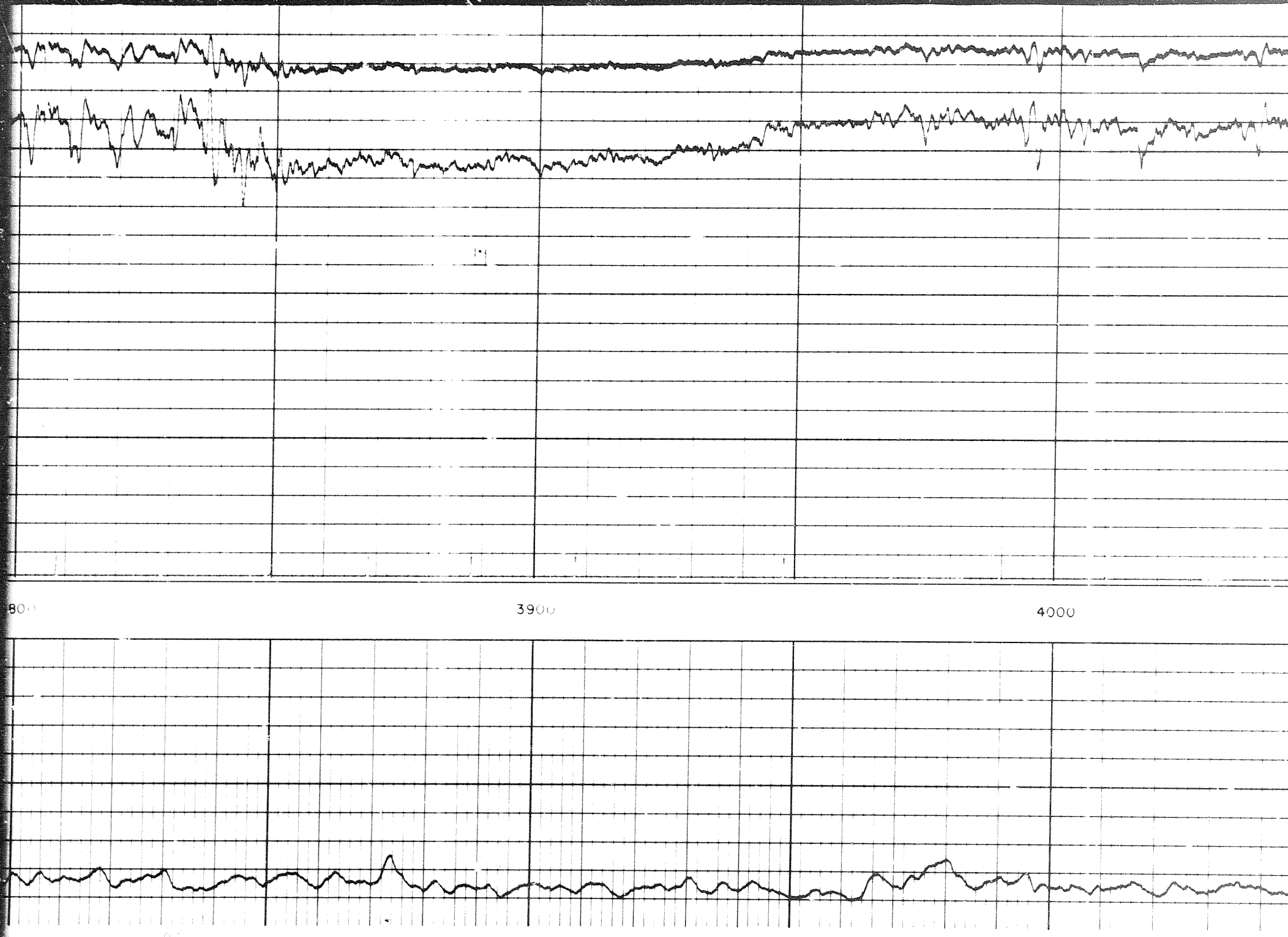
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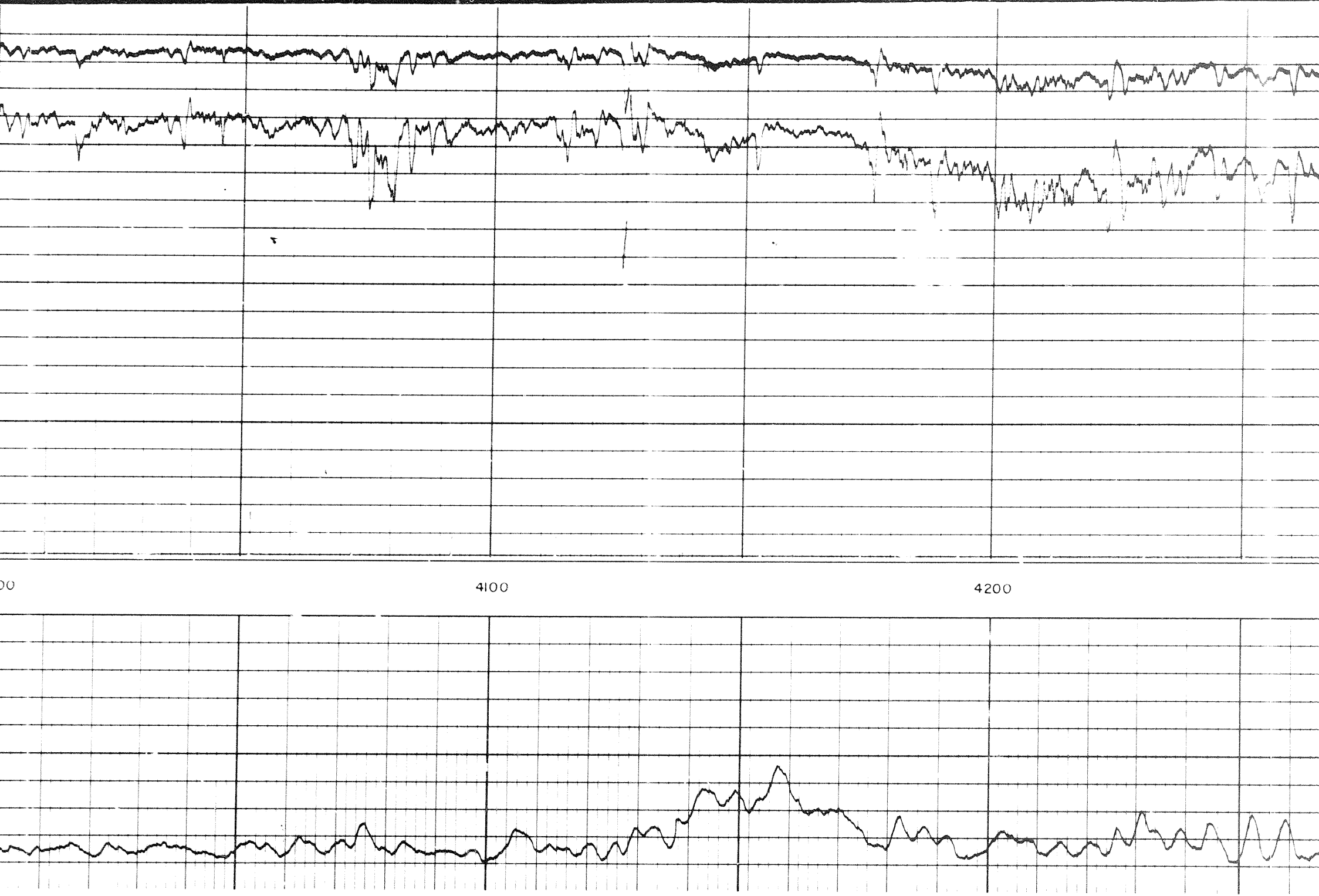
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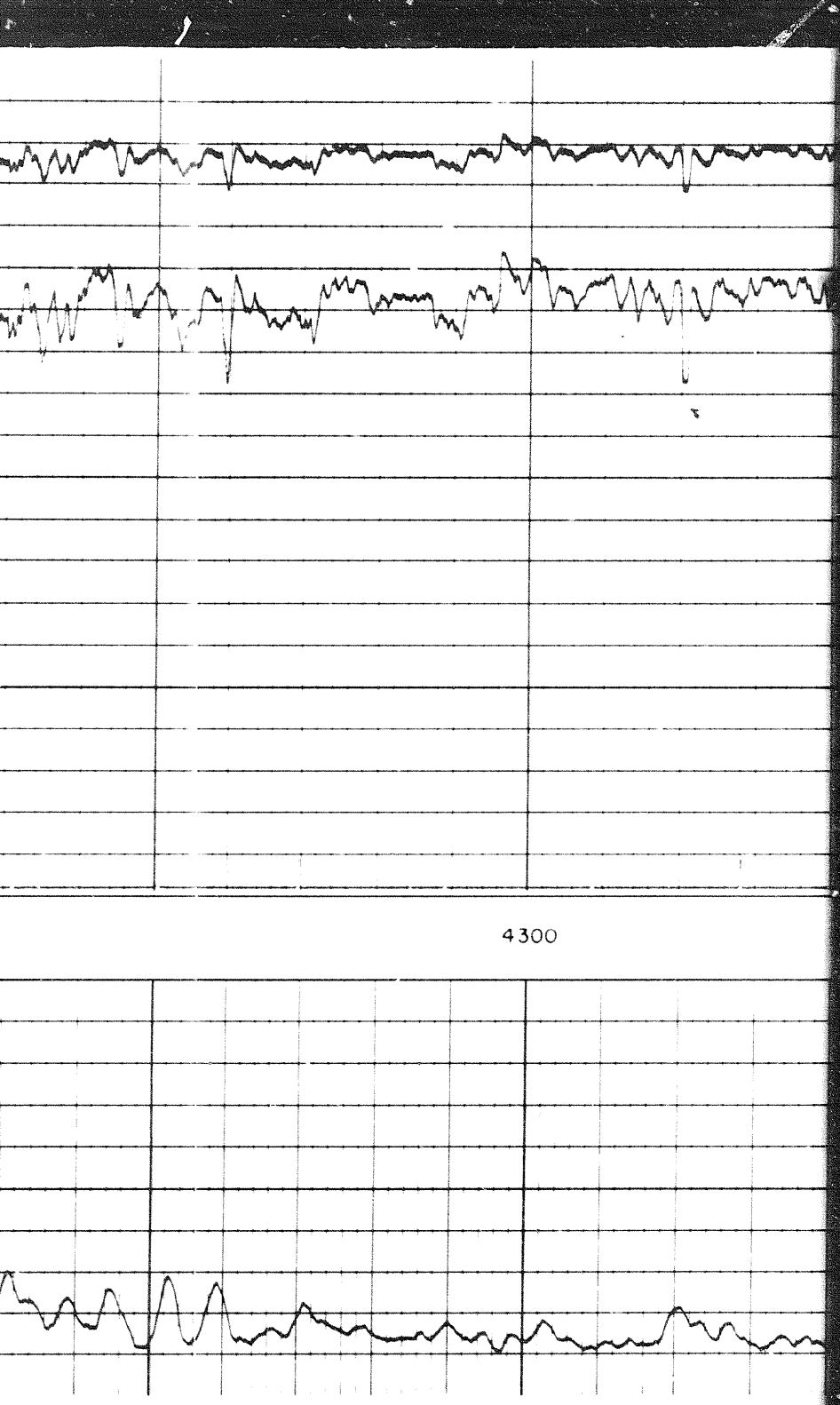
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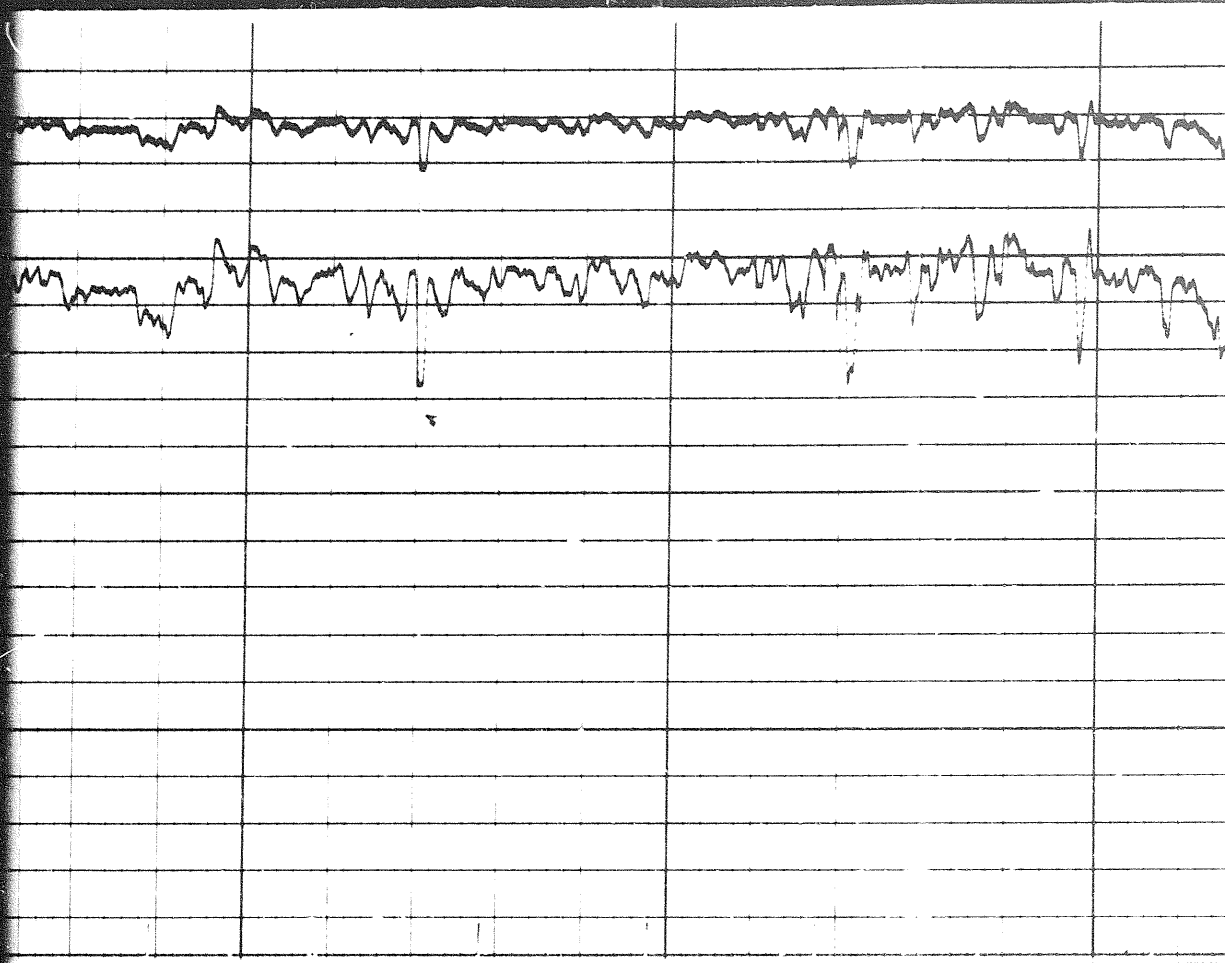
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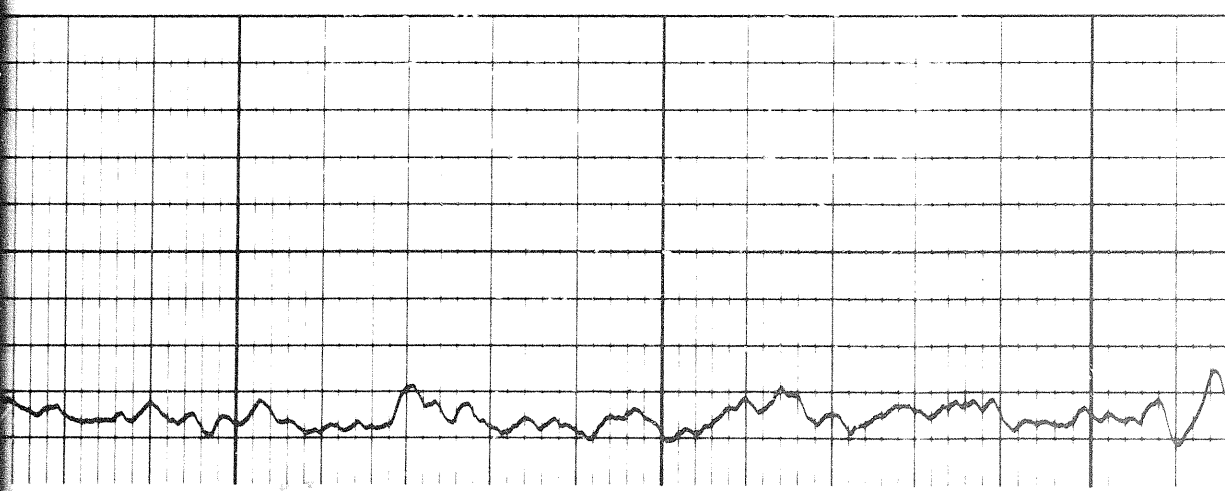

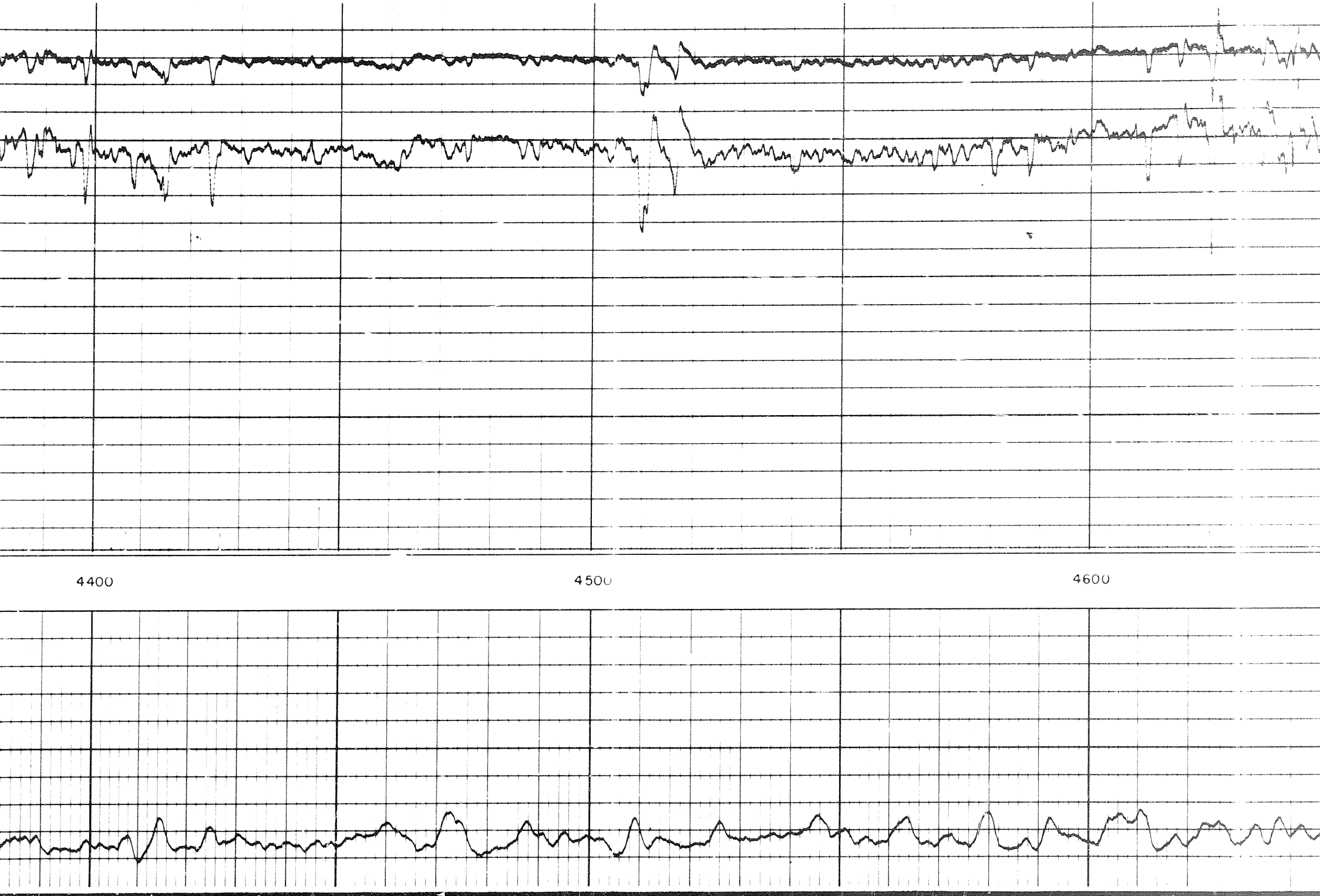
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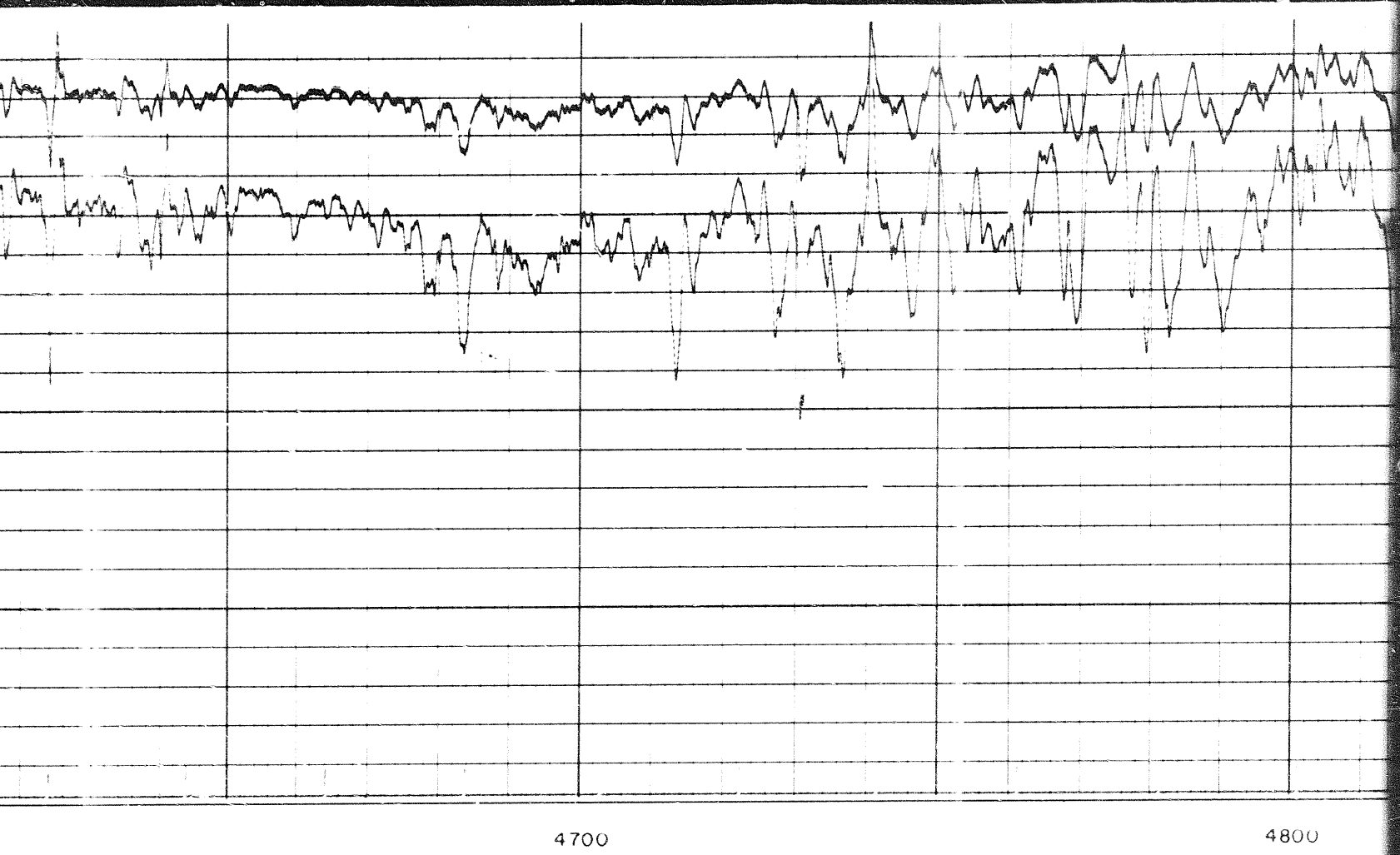
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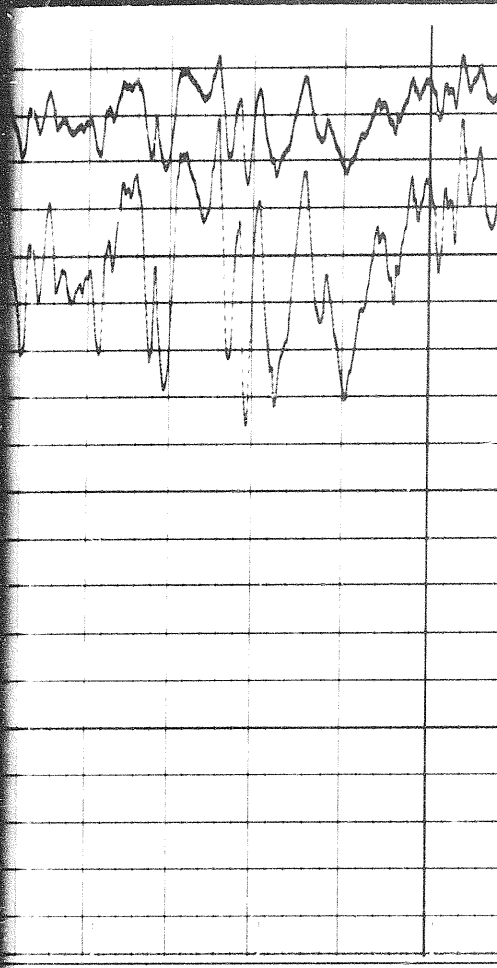
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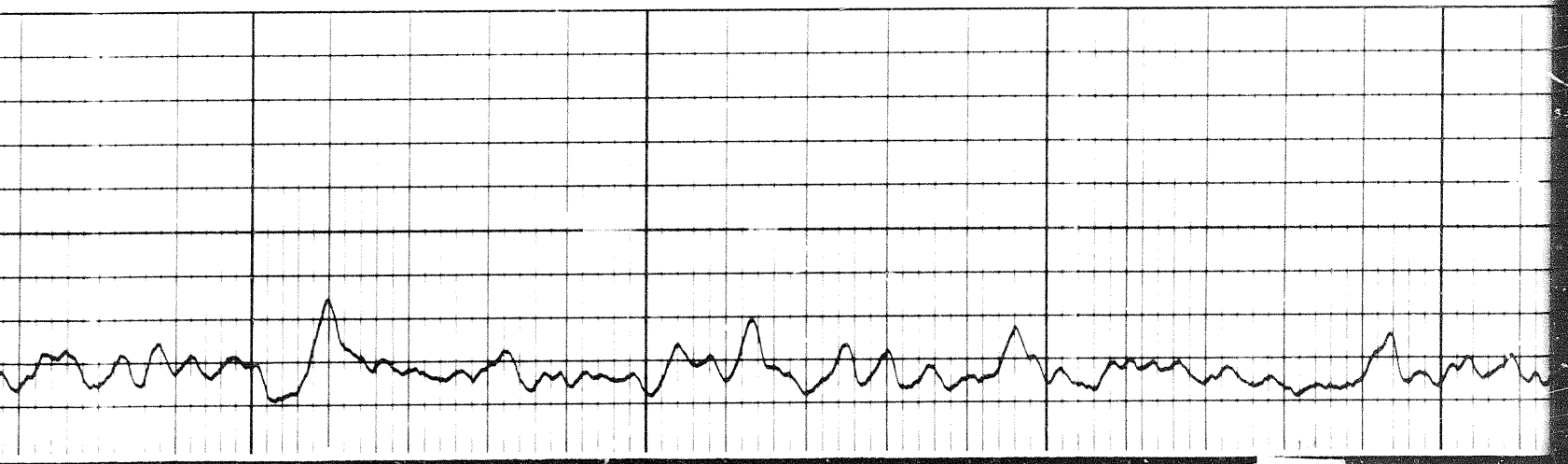

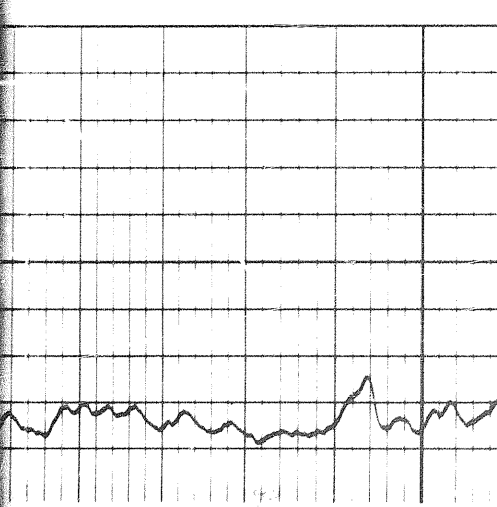

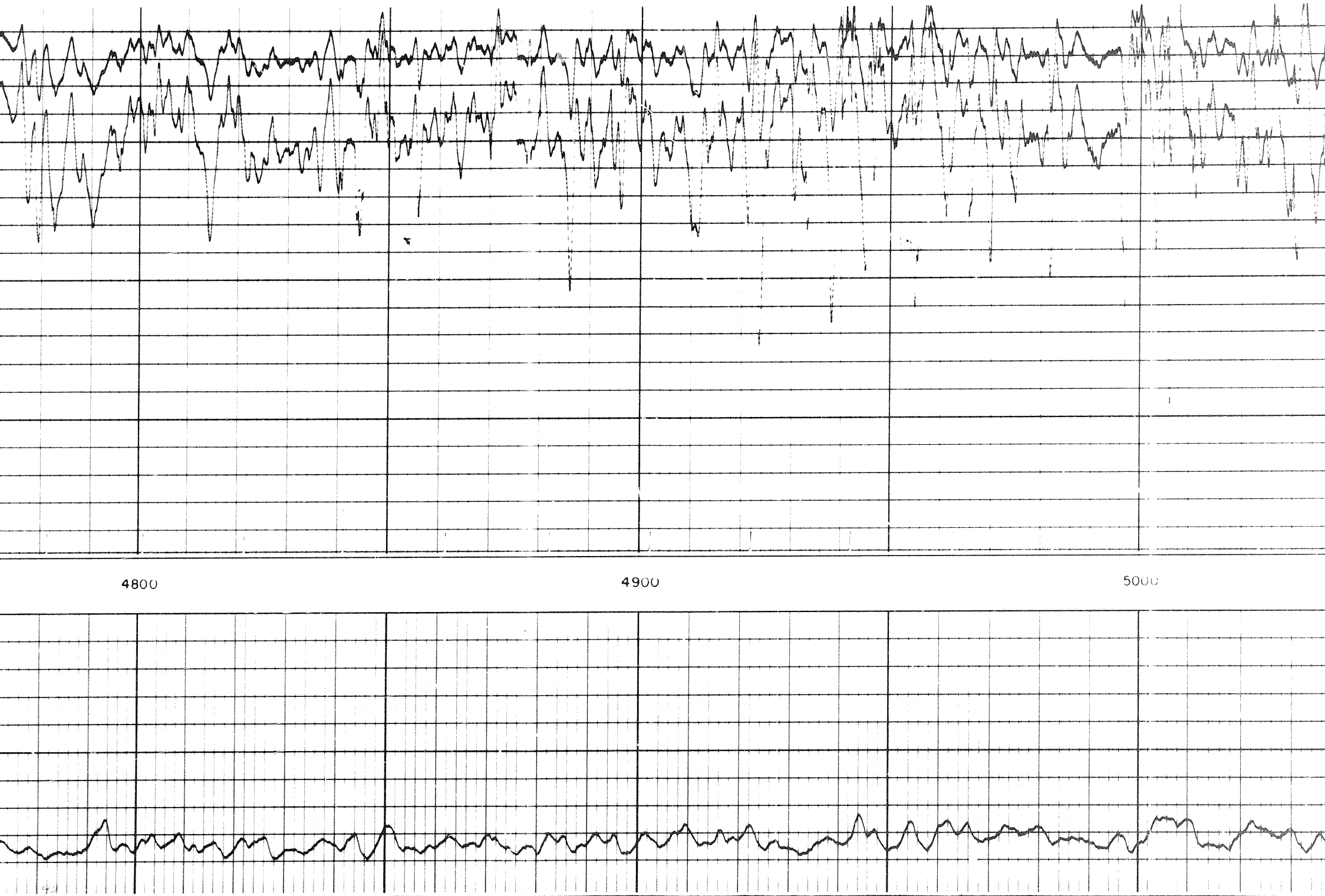
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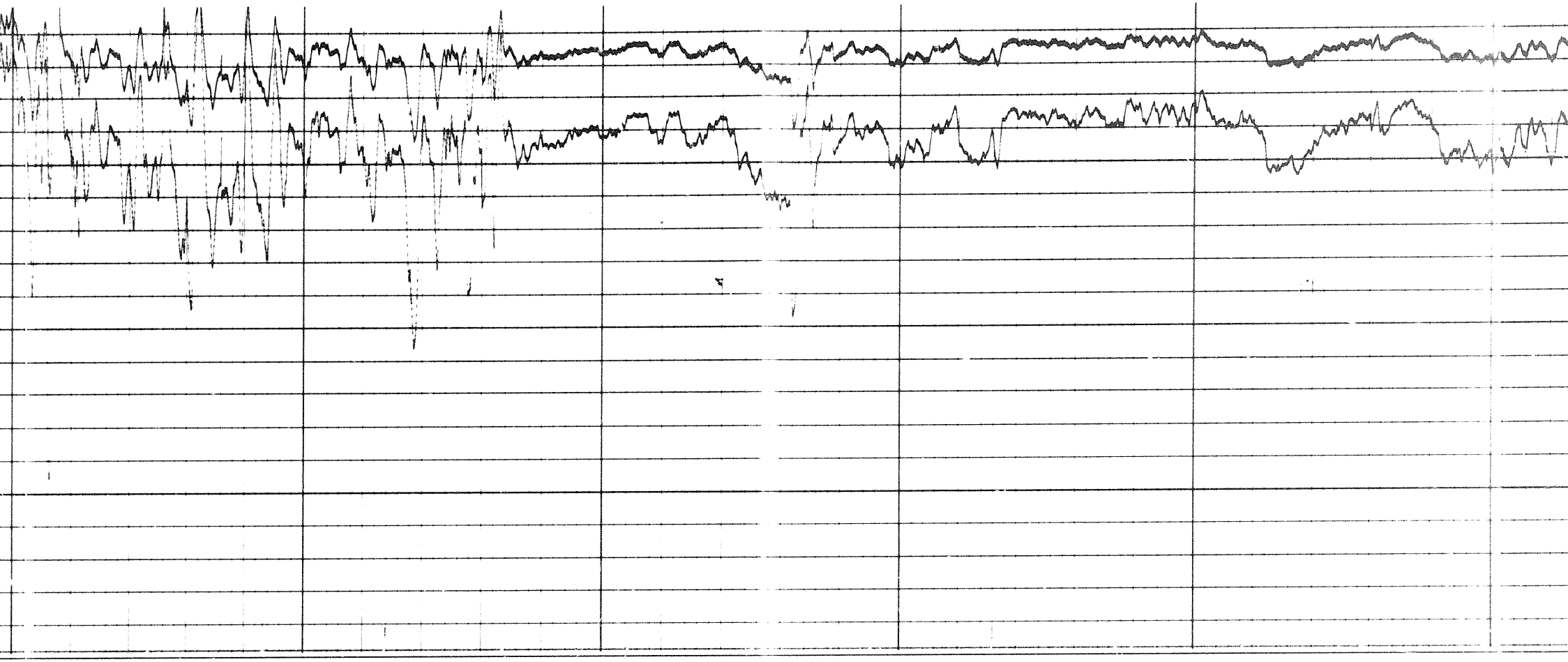
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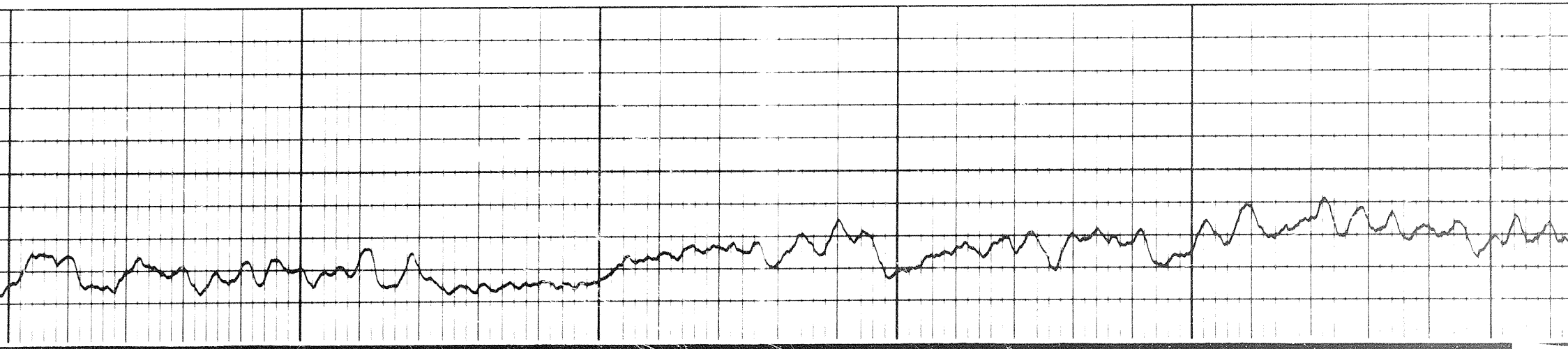

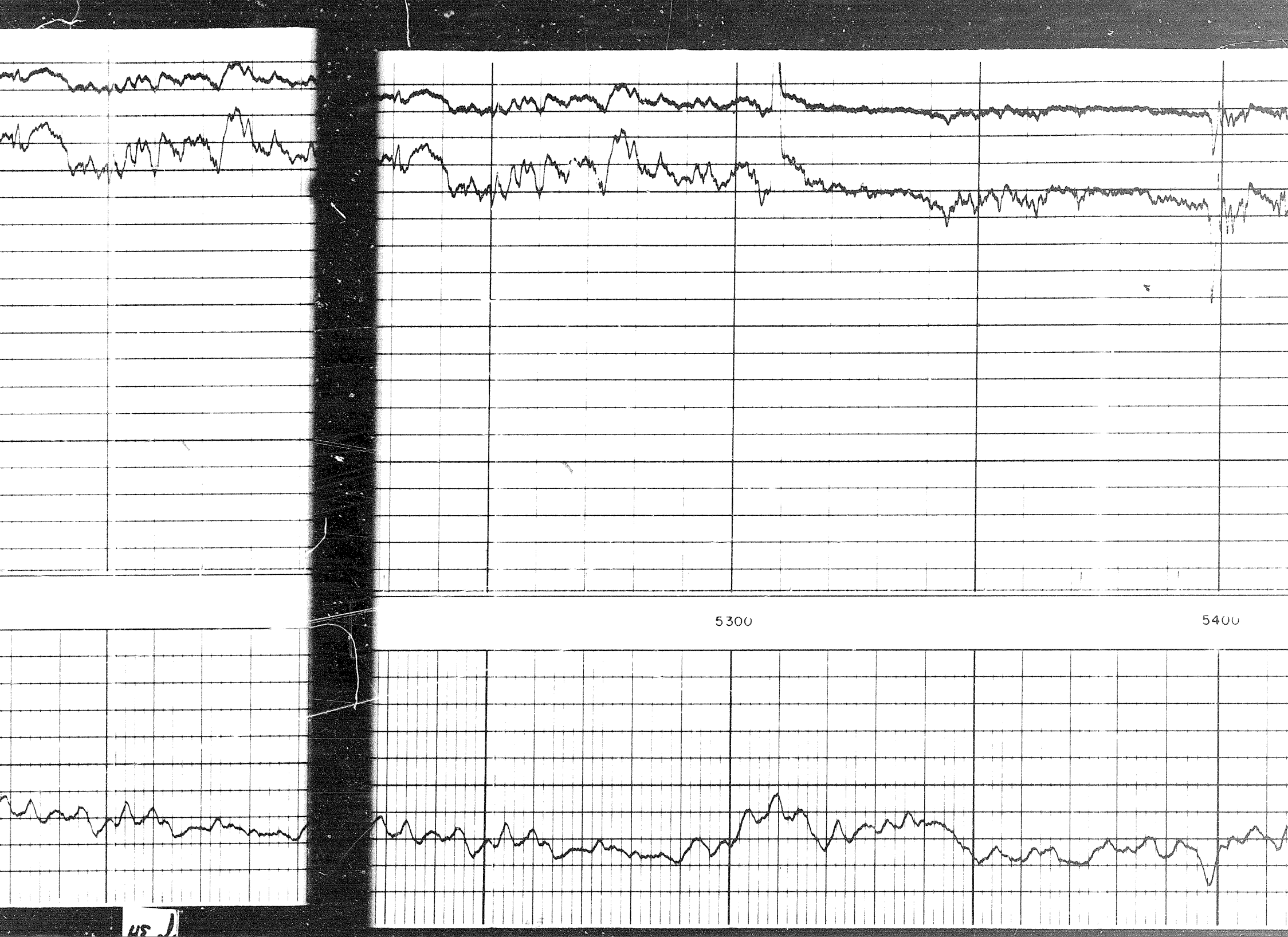
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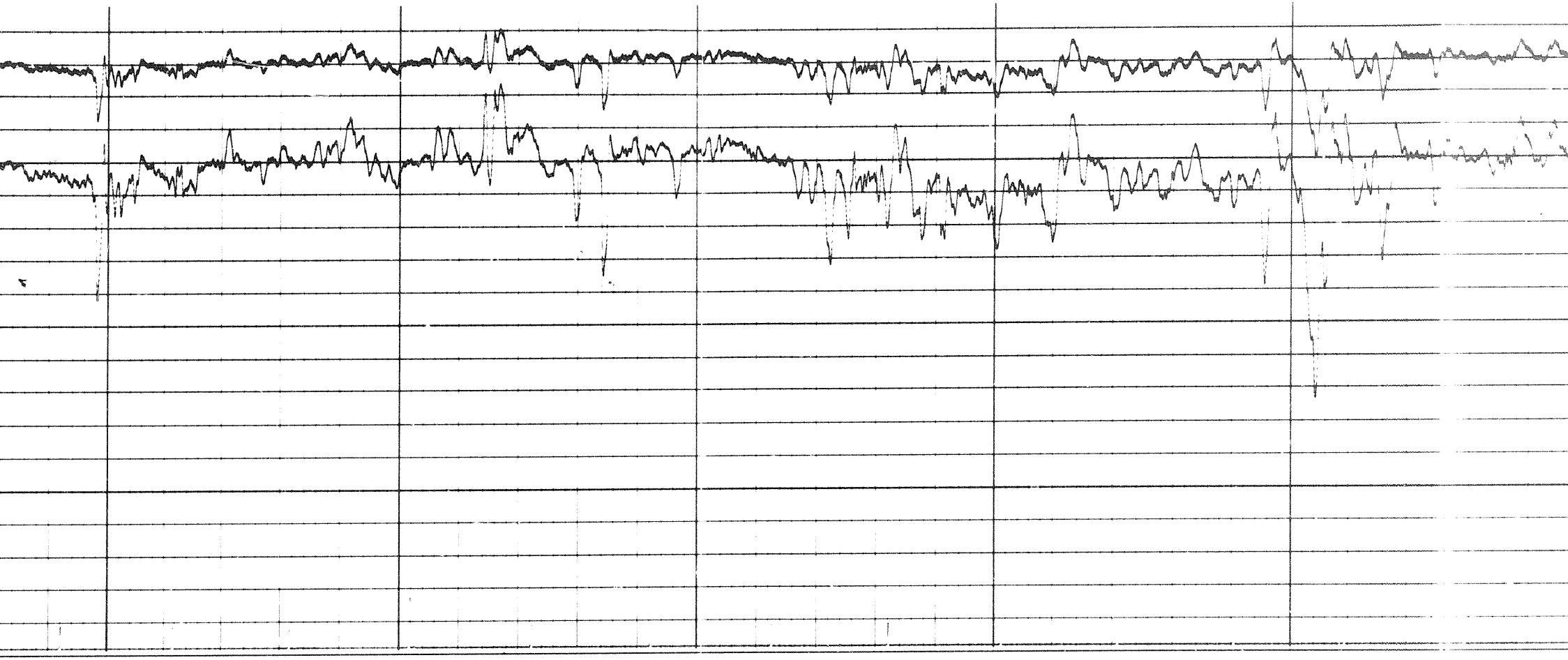
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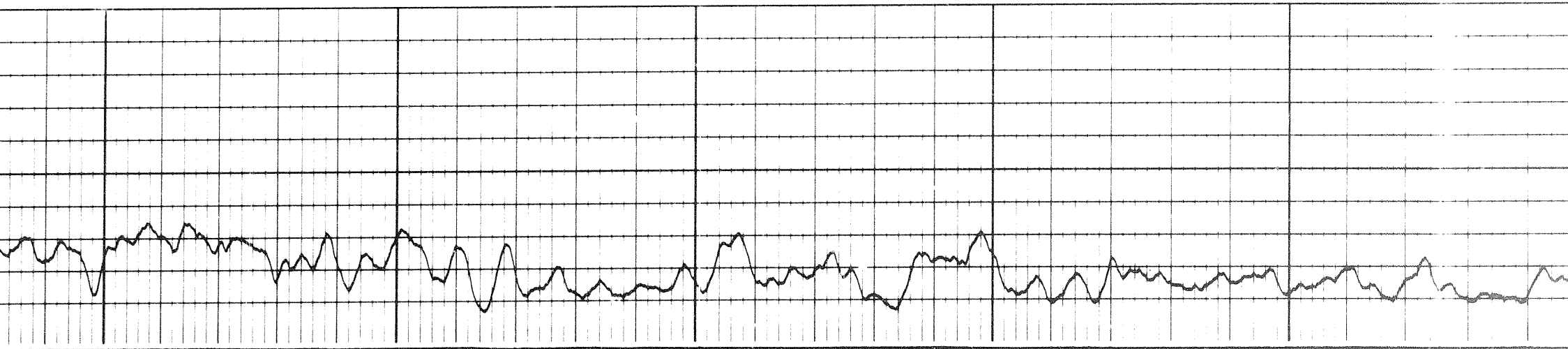

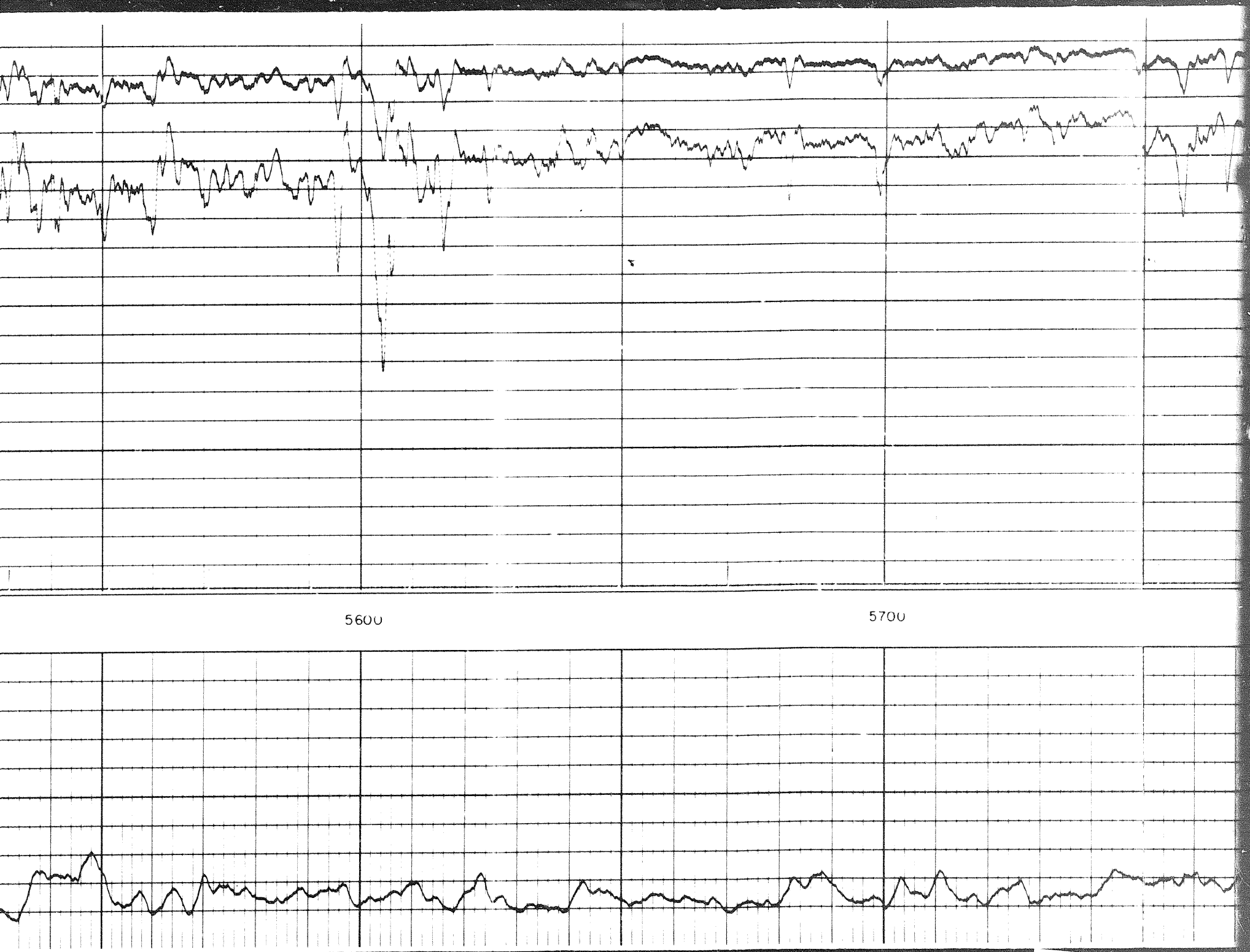
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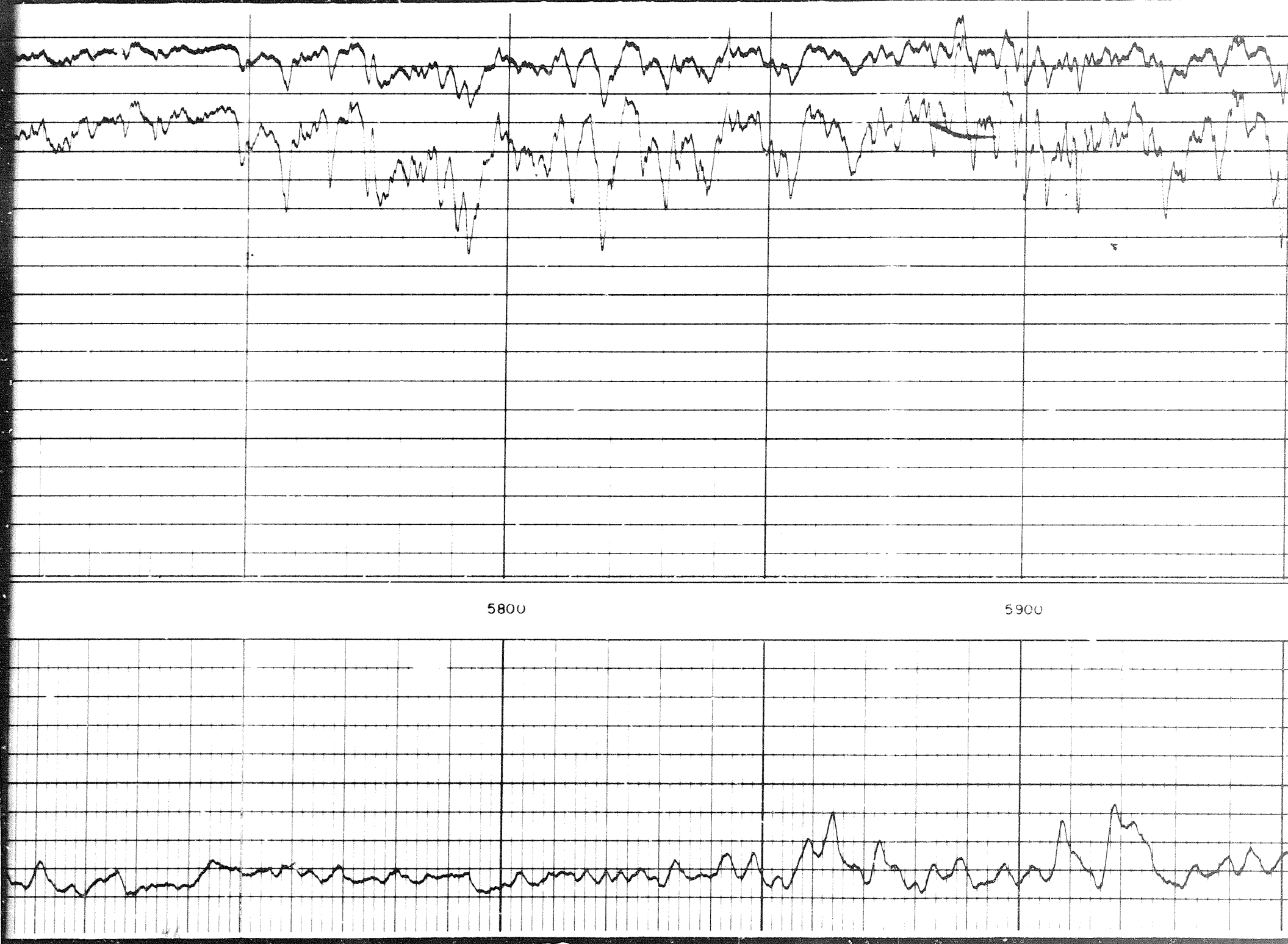
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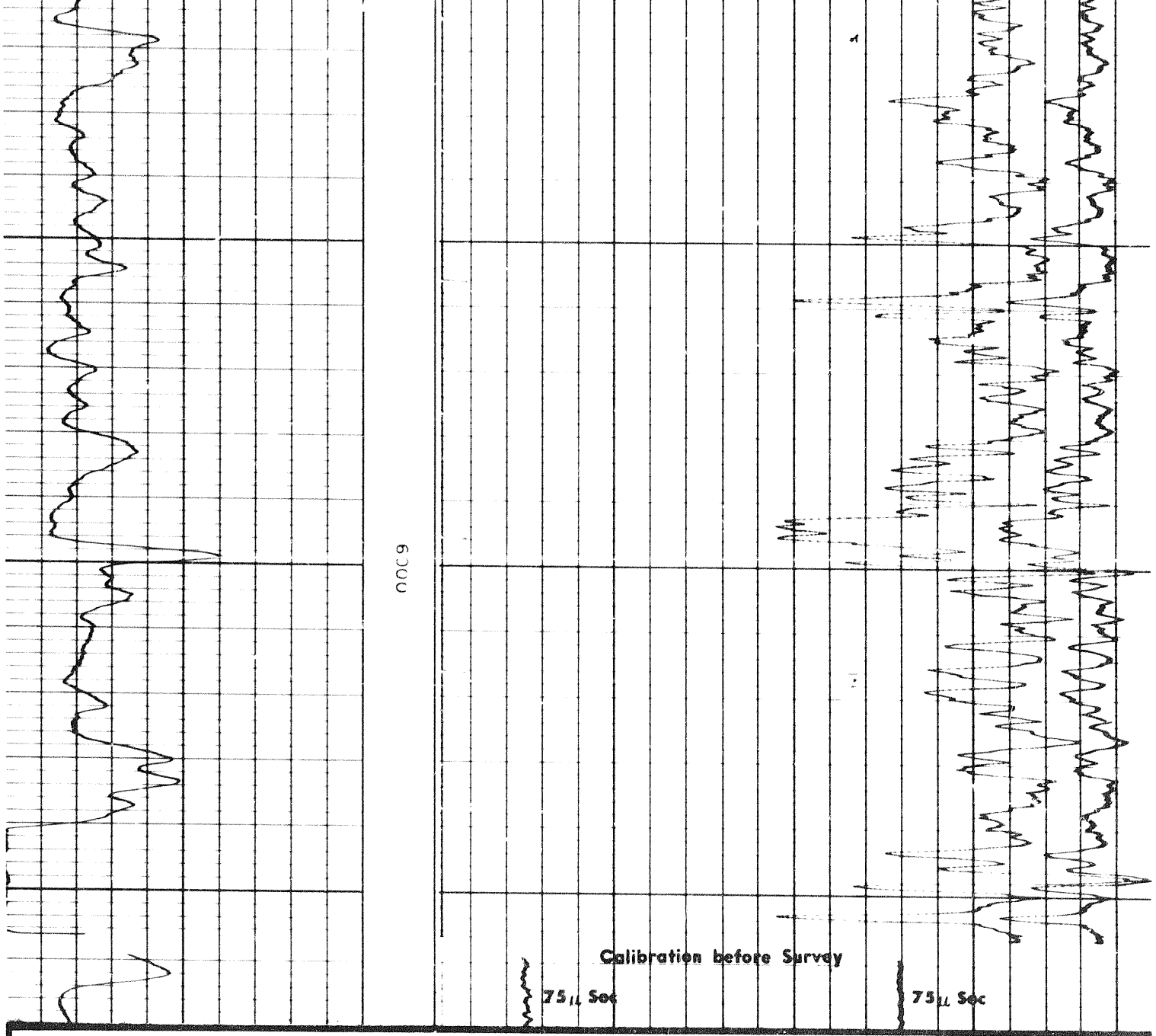


DETAIL LOG

RUN #3

5" = 100'

GAMMA RAY

API UNITS

INTERVAL 9000 to 13180

Sens 300 TC 1

Logging Speed 50 ft./min

ZERO 0 div. to left

0 120

120 240

INTERVAL ____ to ____

Sens ____ TC ____

Logging Speed ____ ft. min

ZERO ____ div. to left

SONIC

T

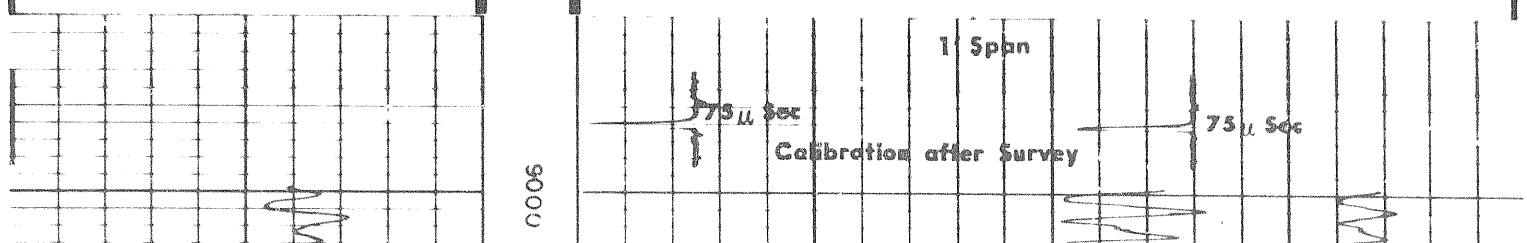
R

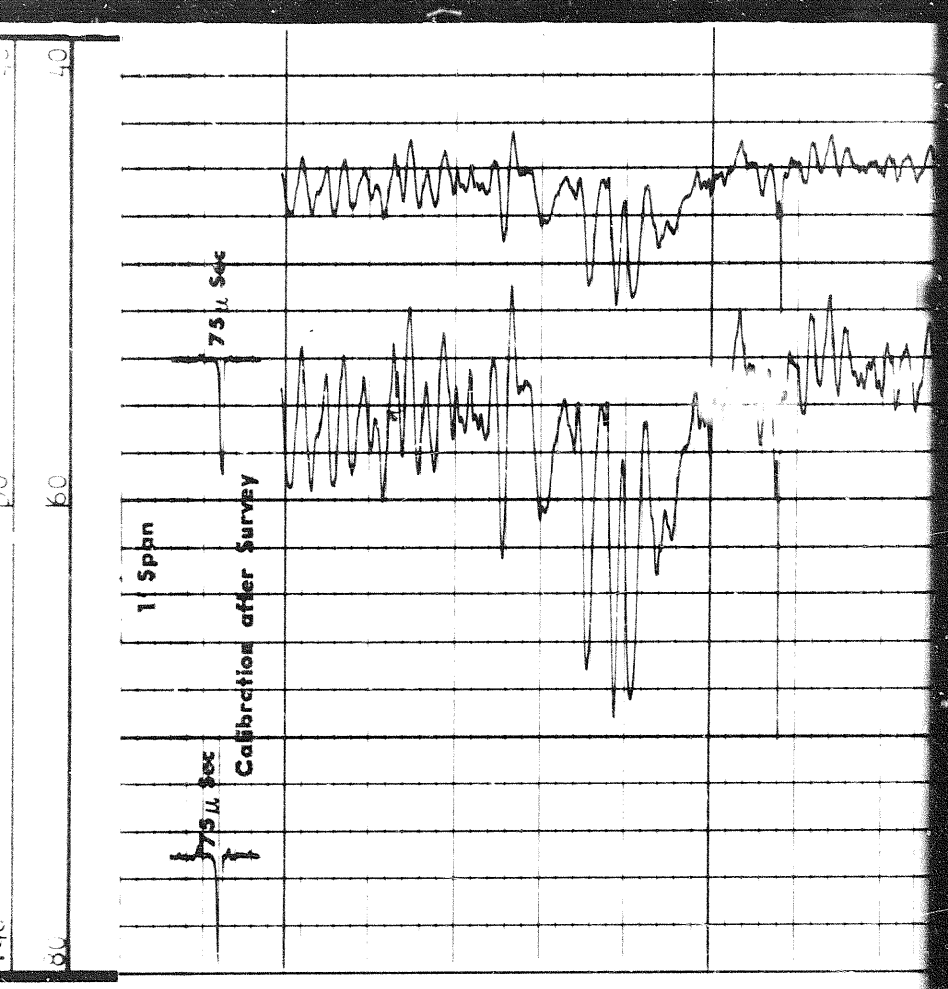
Spacing 3'

Pickup Span 1'

140 90 40

80 60 40

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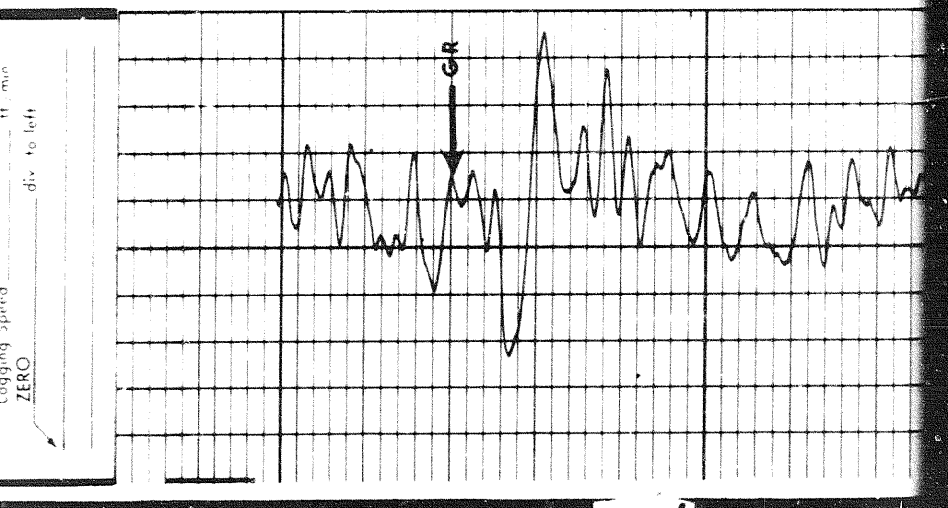
60
80
75μ Sec
1 Spon
Calibration after Survey
75μ Sec

9000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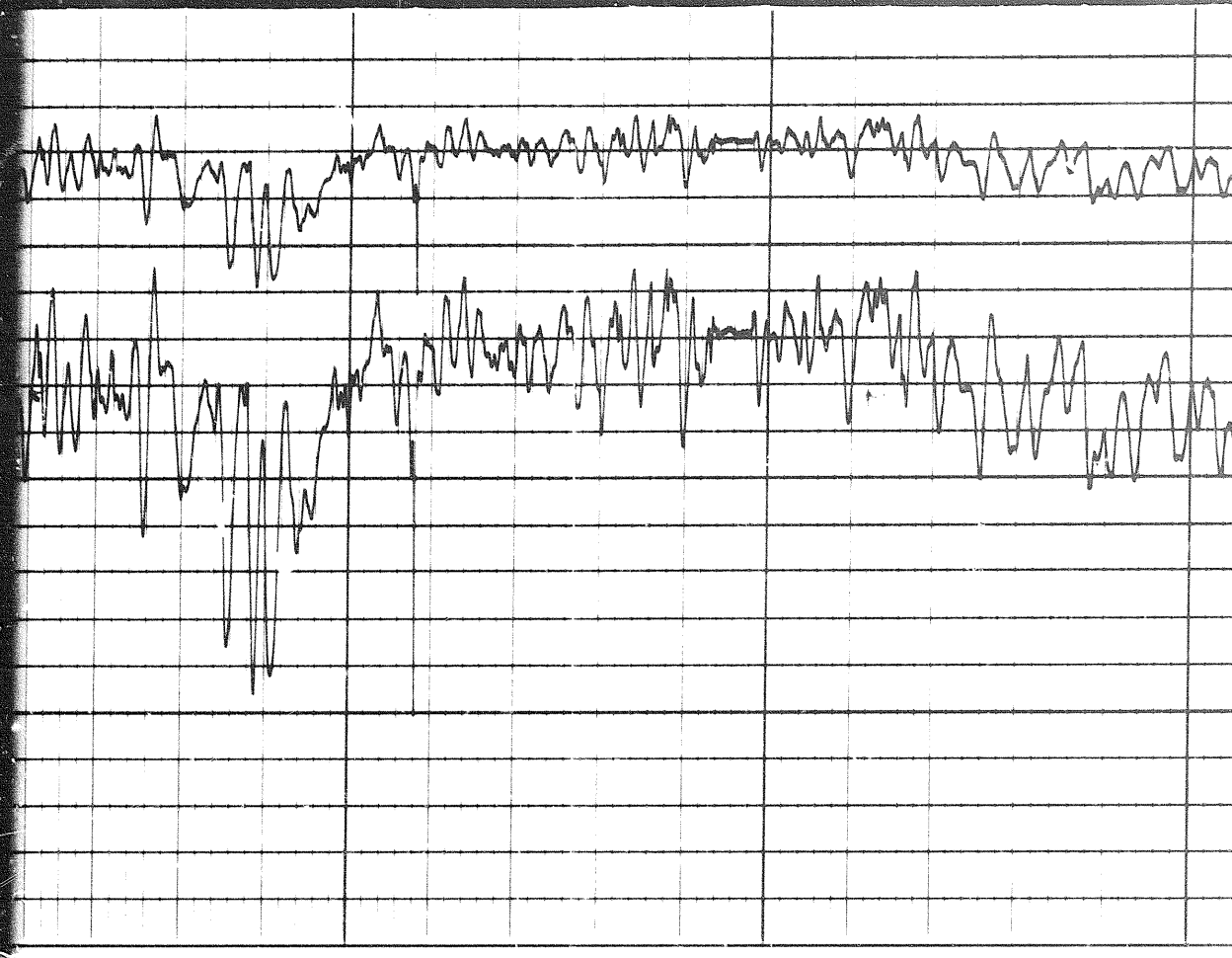

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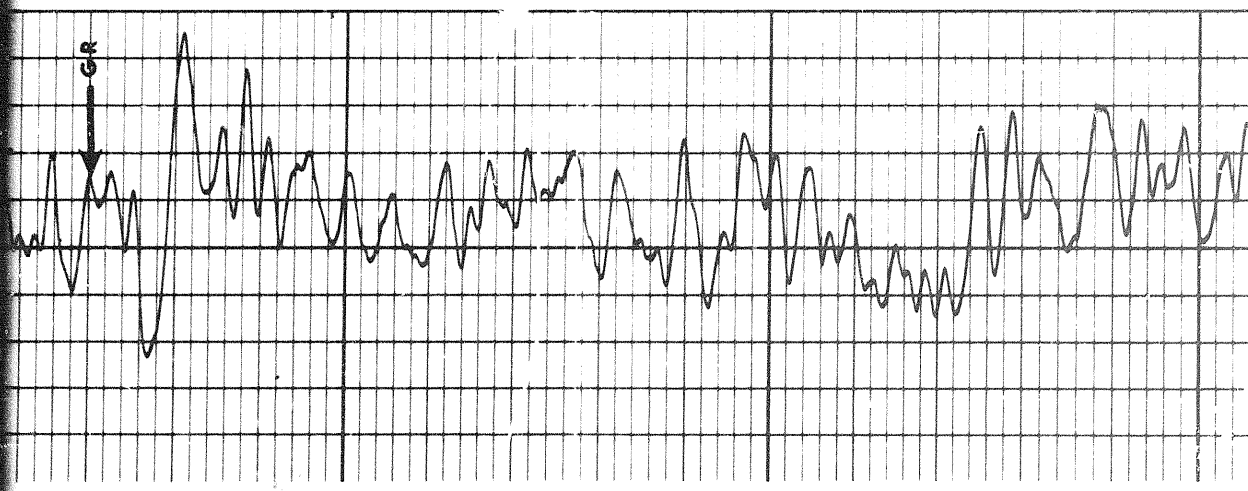
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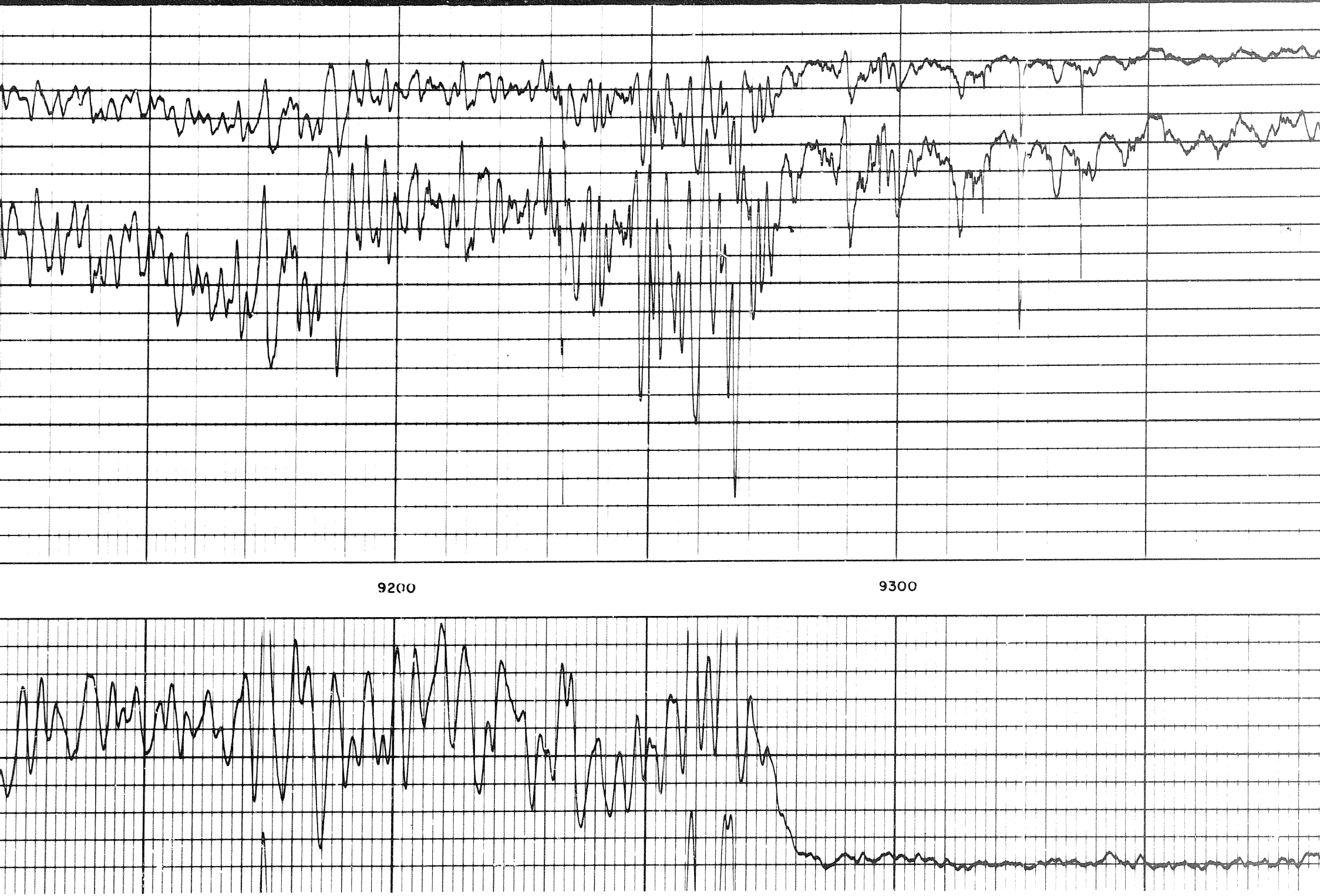
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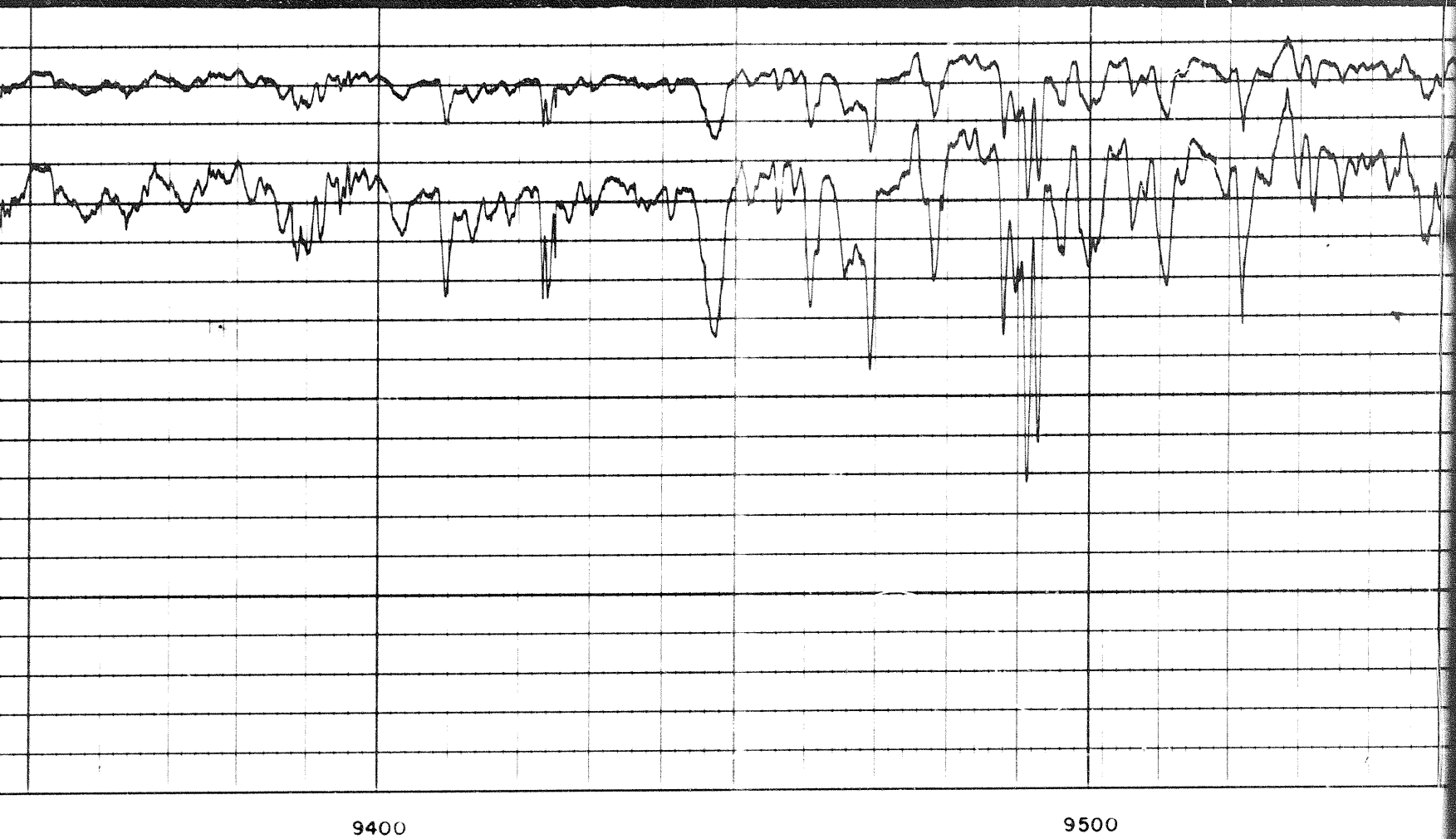
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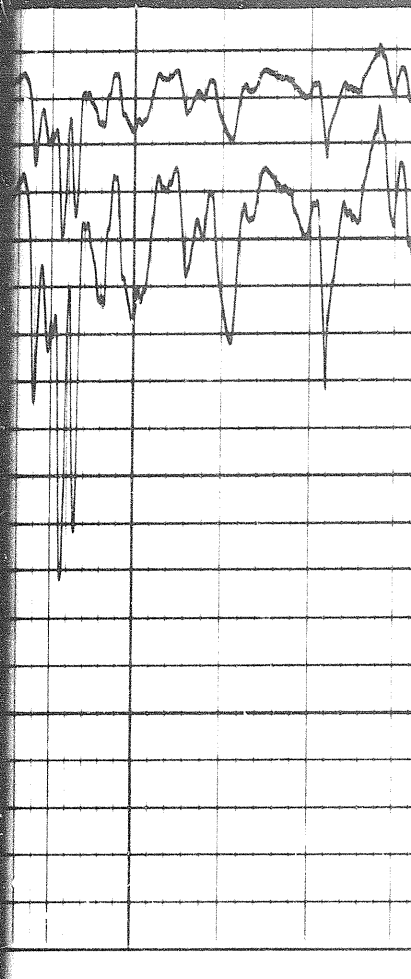
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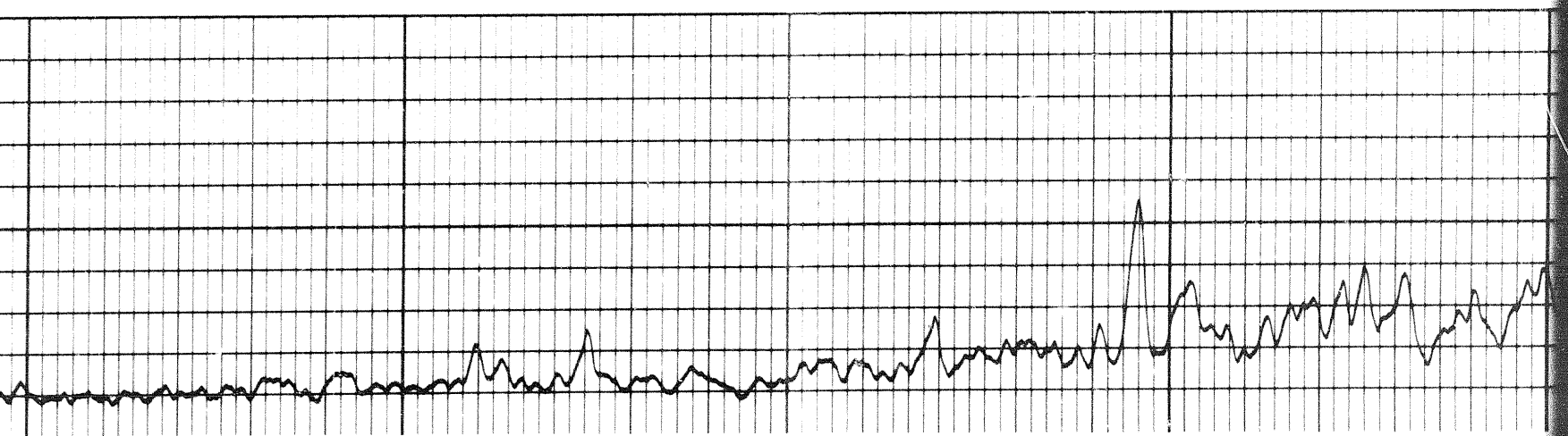

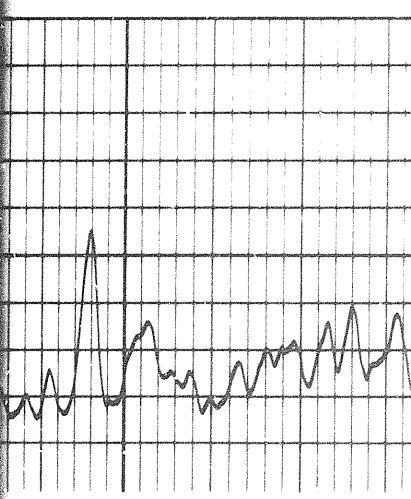

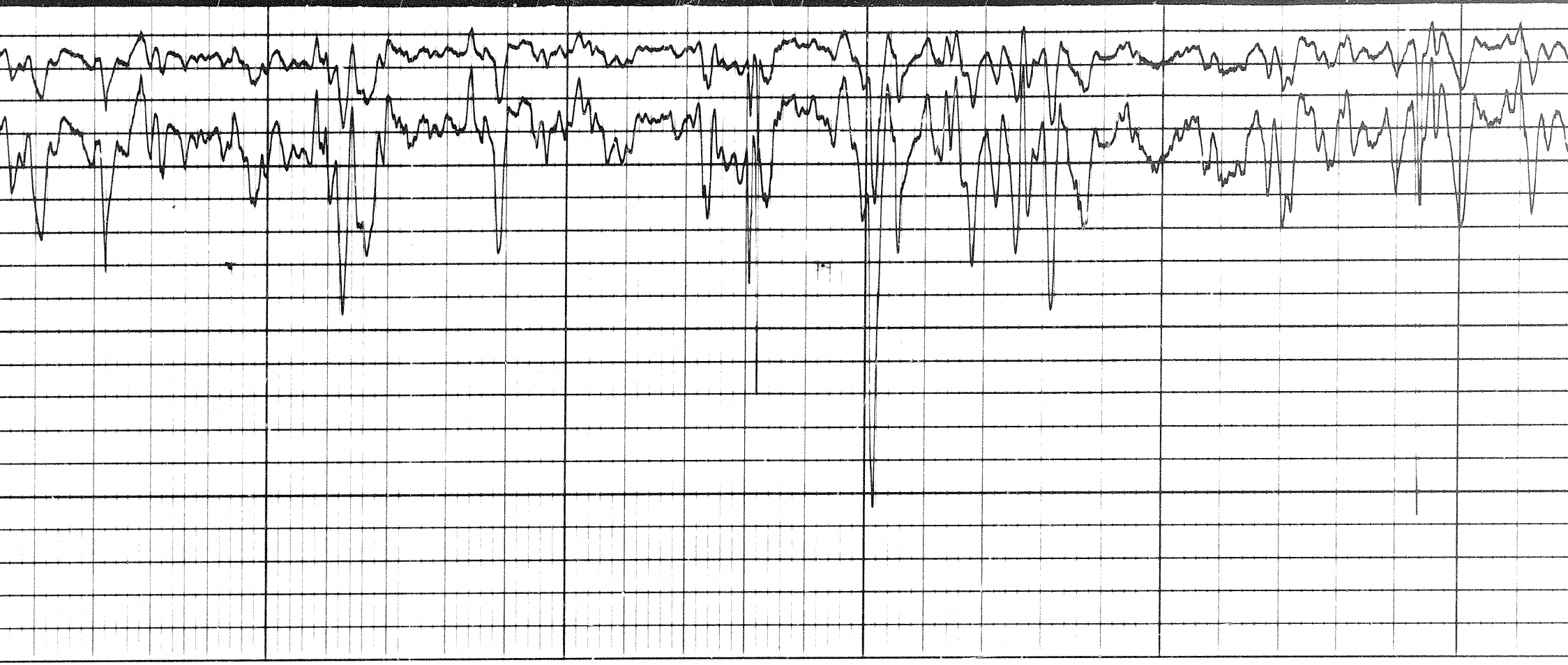
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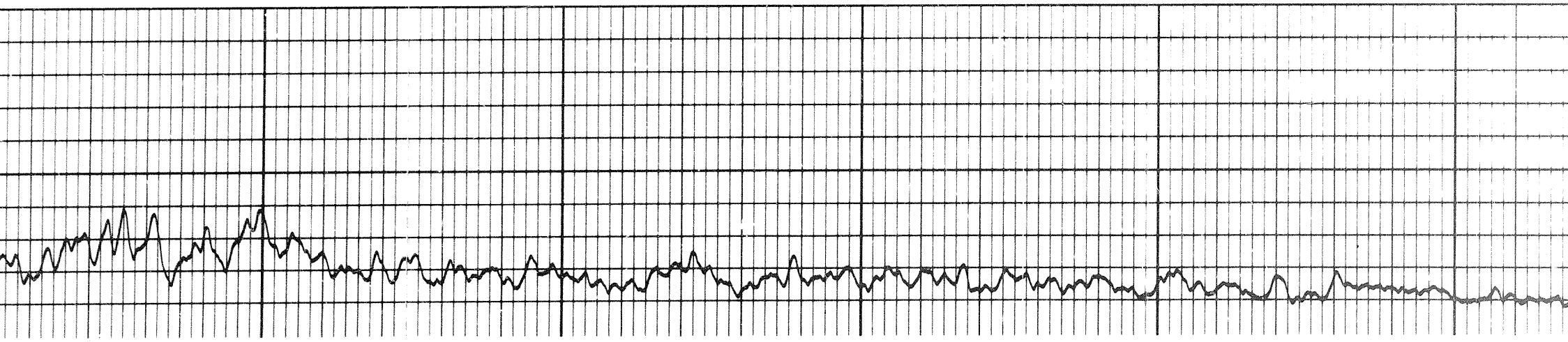

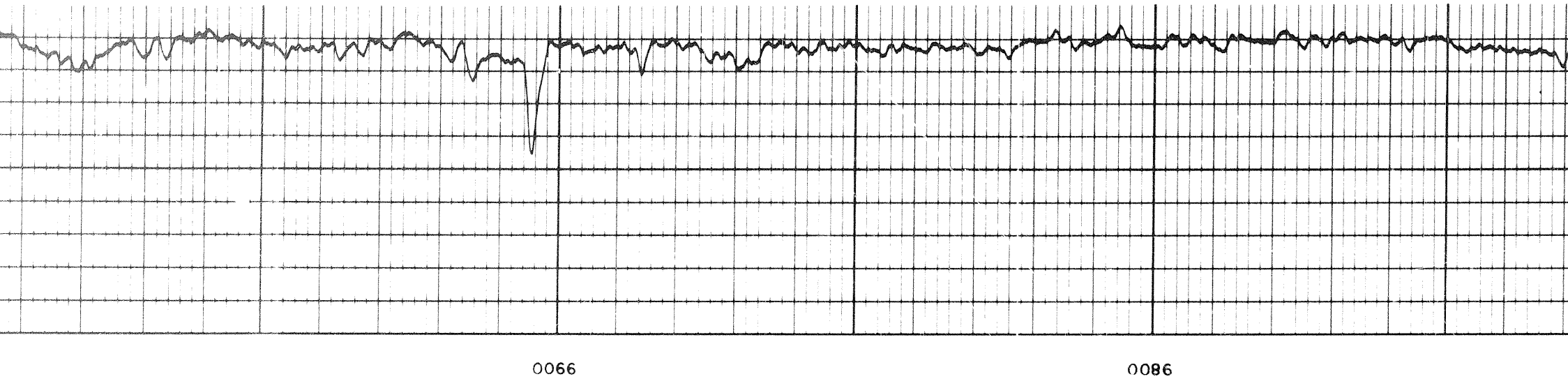
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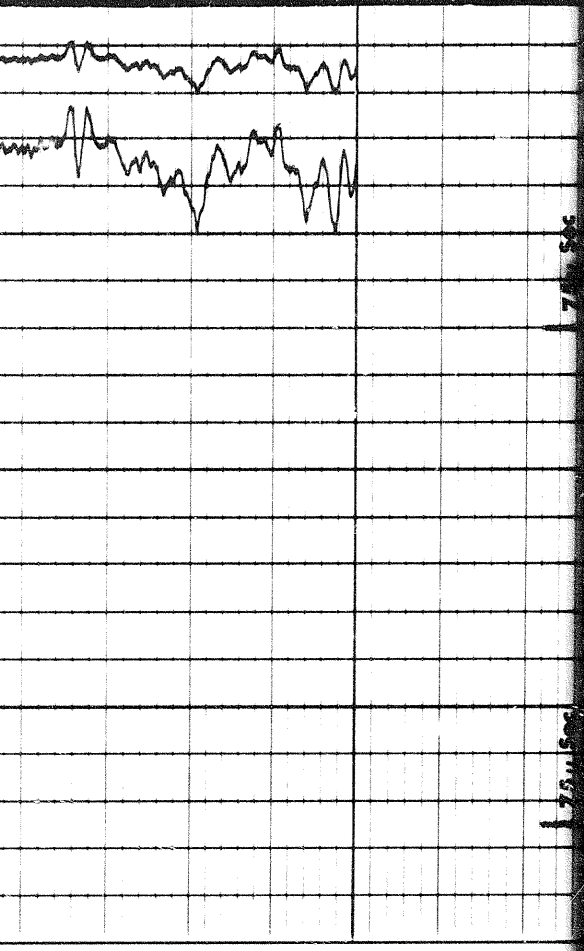

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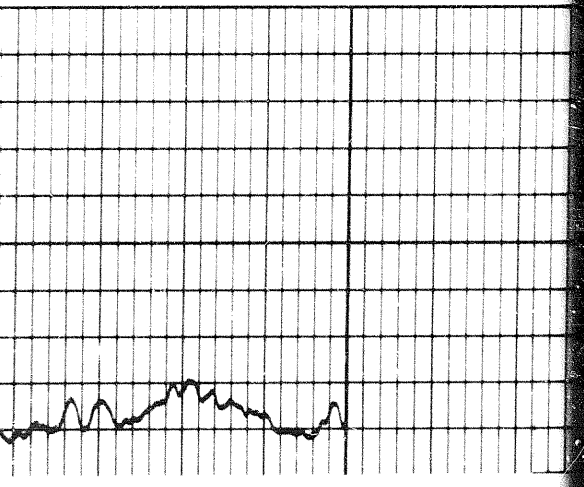

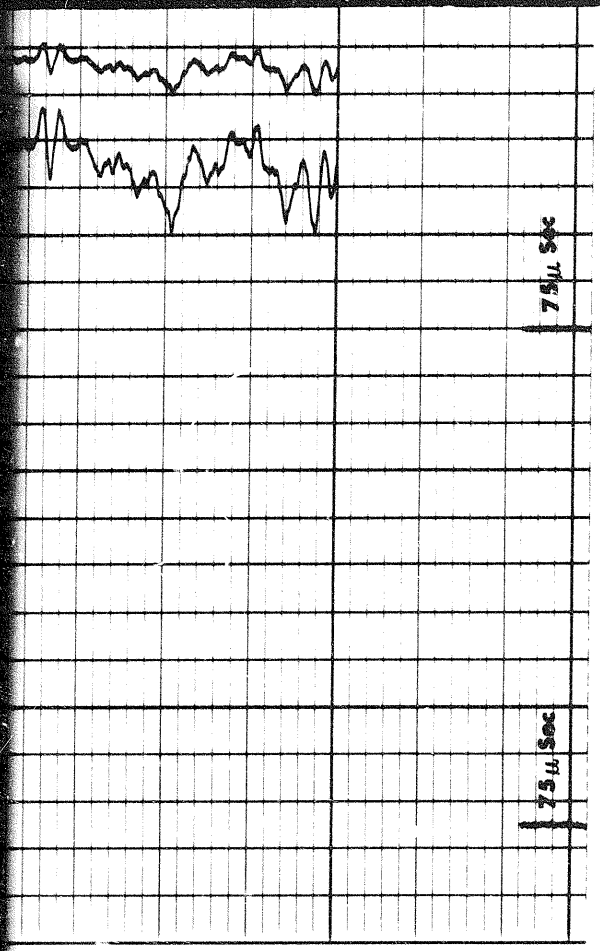

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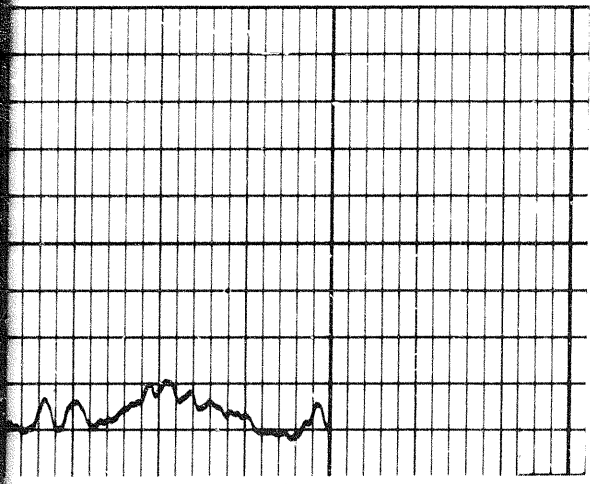

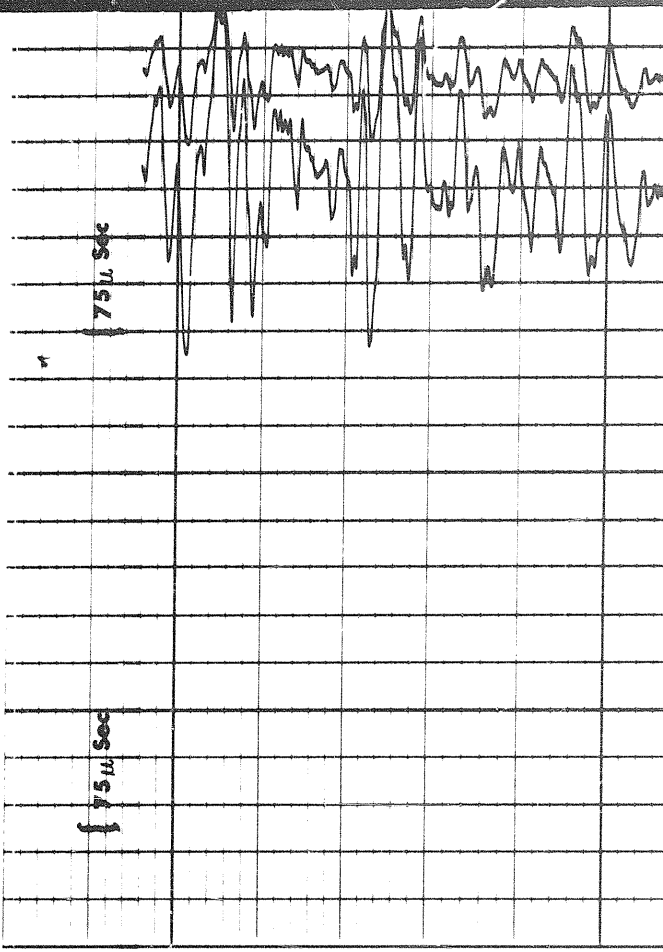

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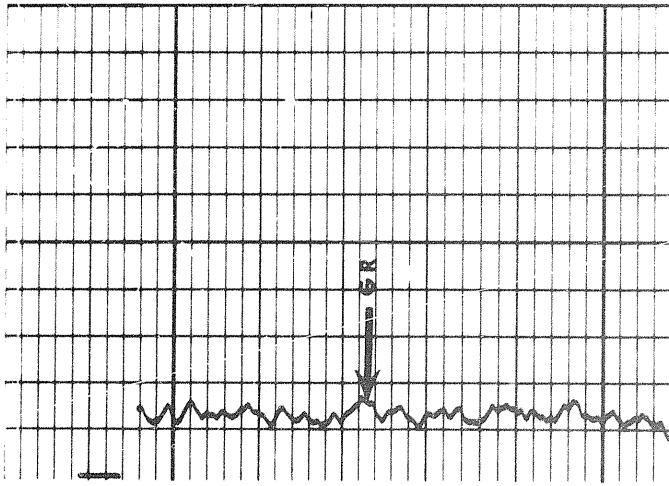

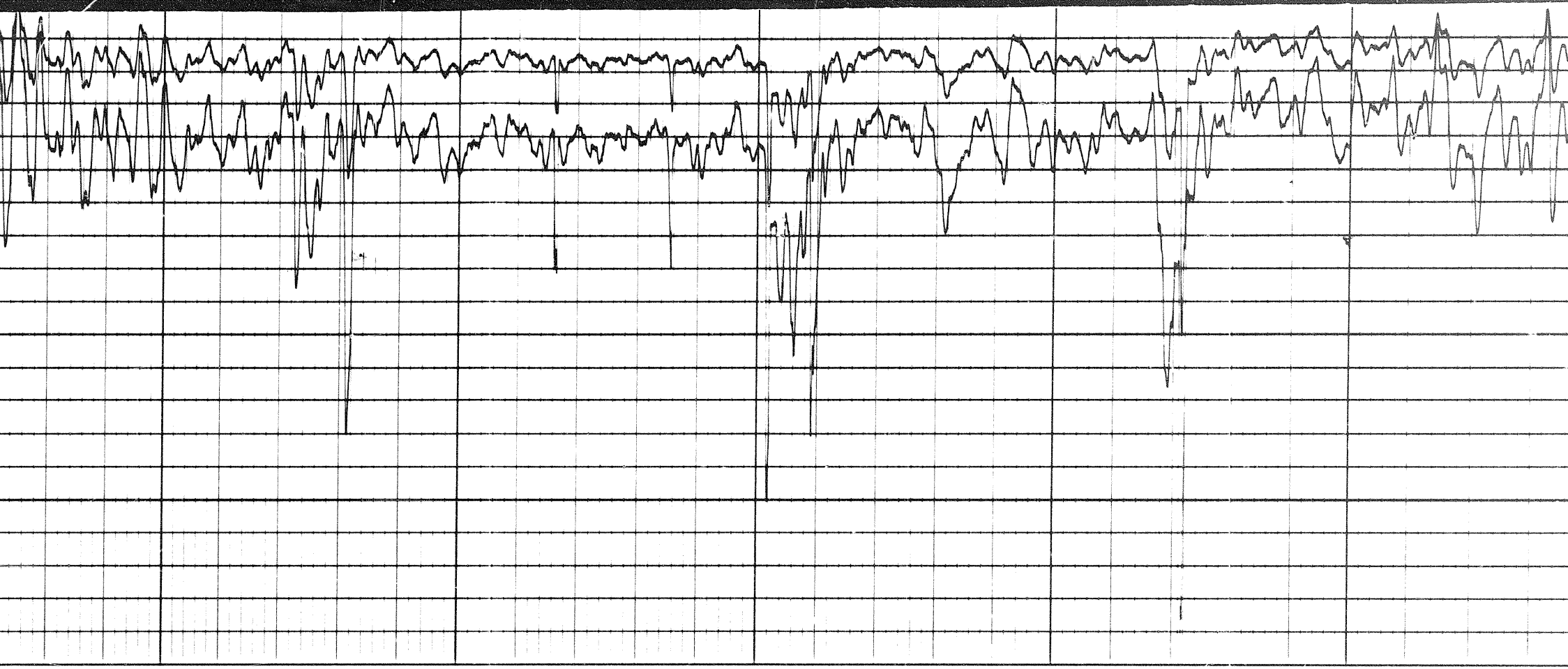

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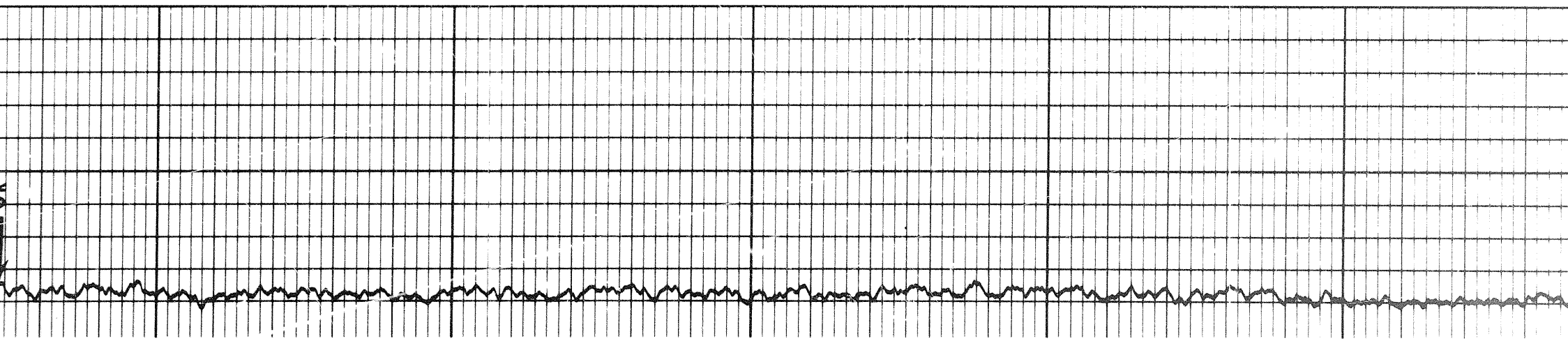
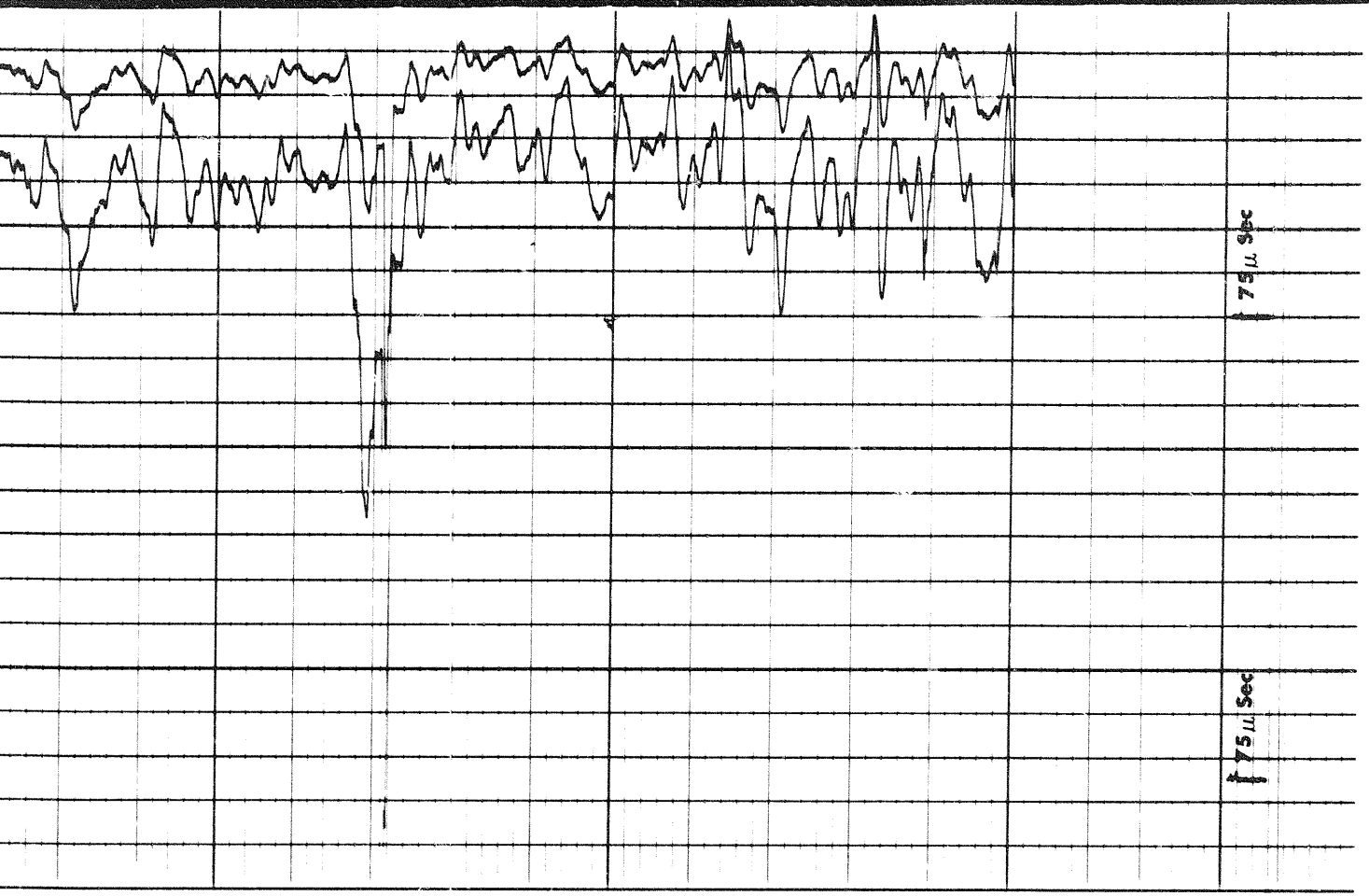
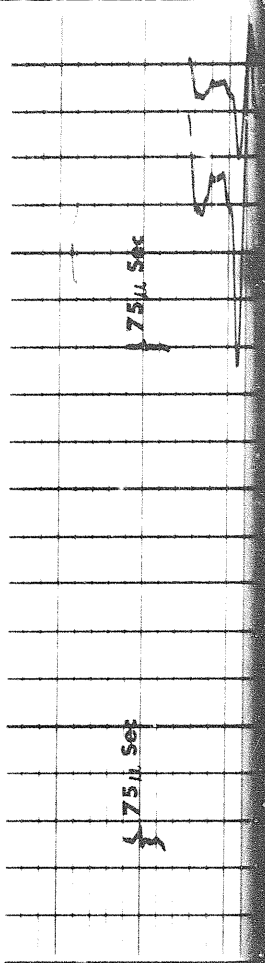
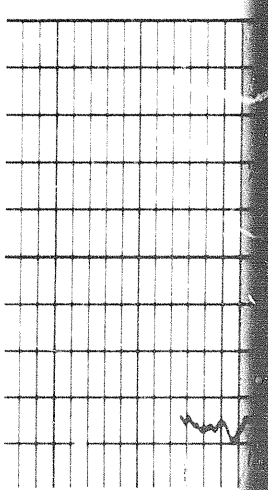




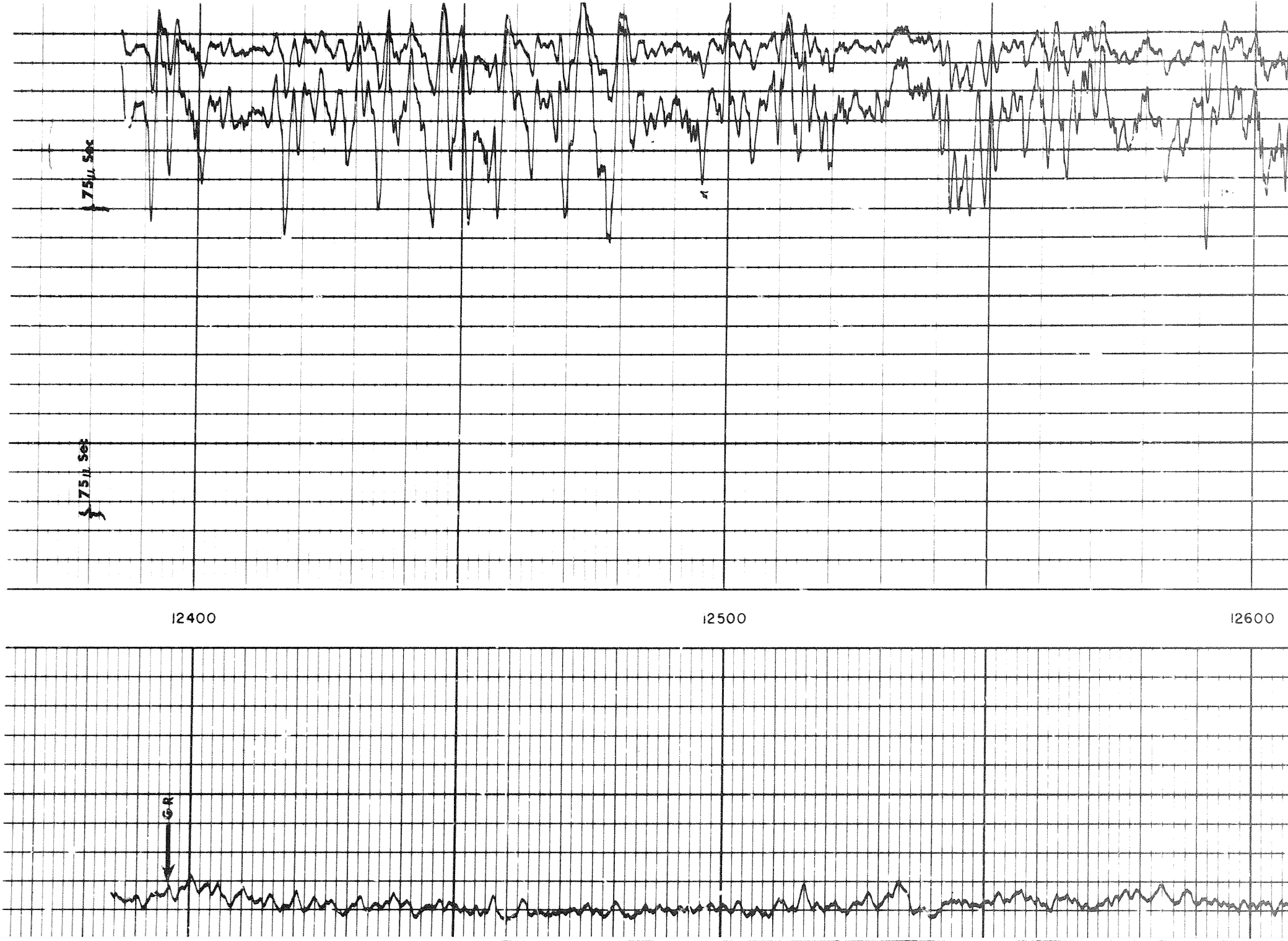
11400

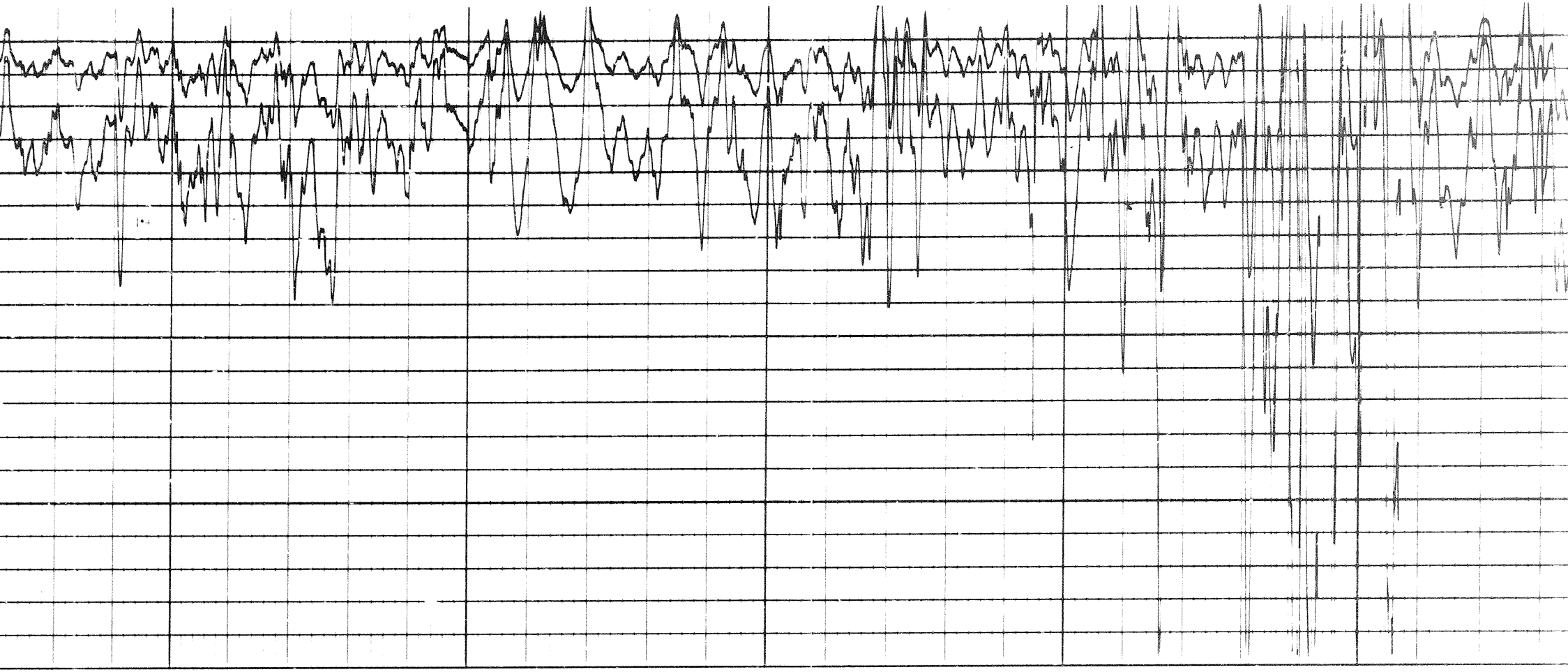
11500

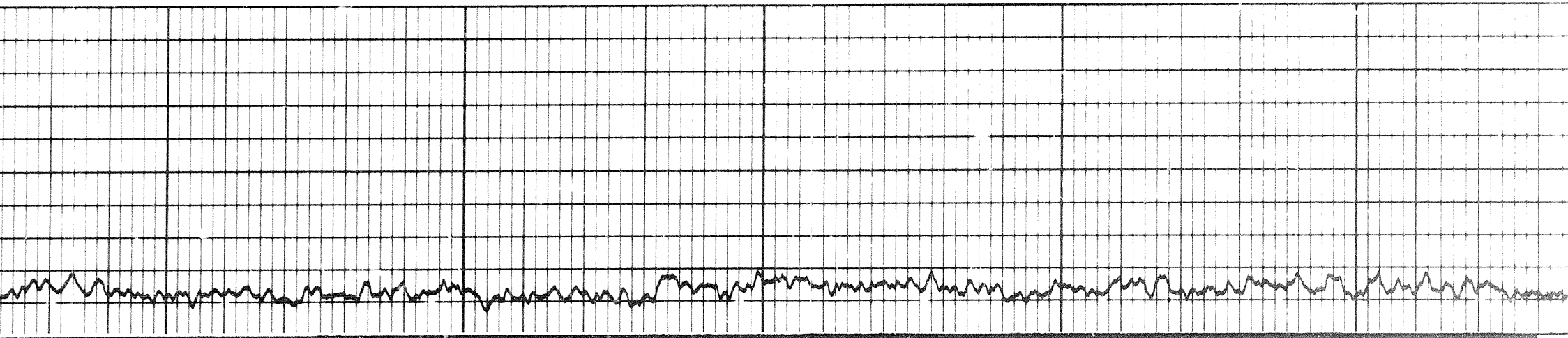


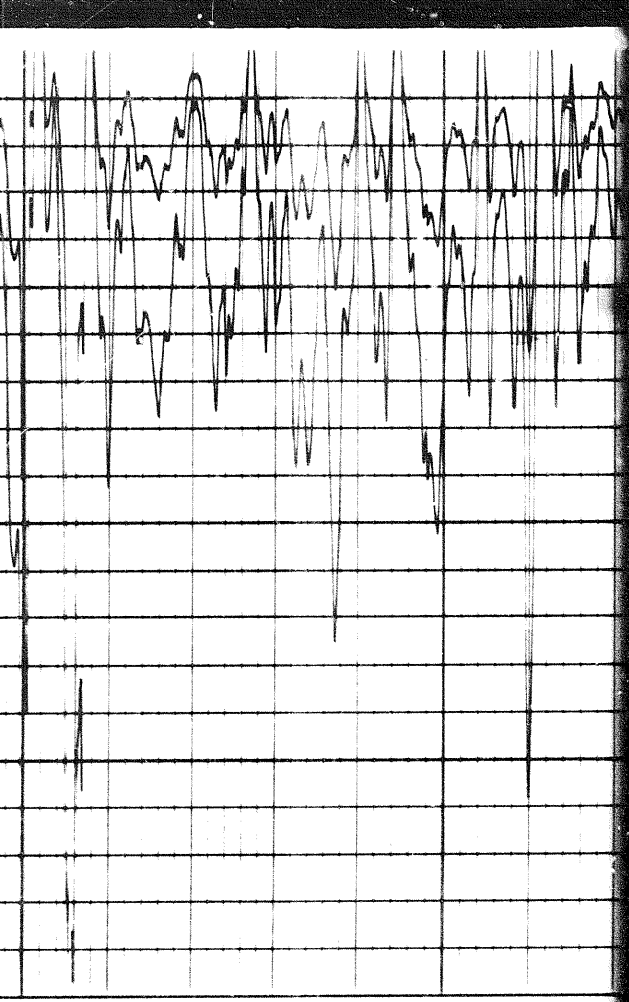


50d

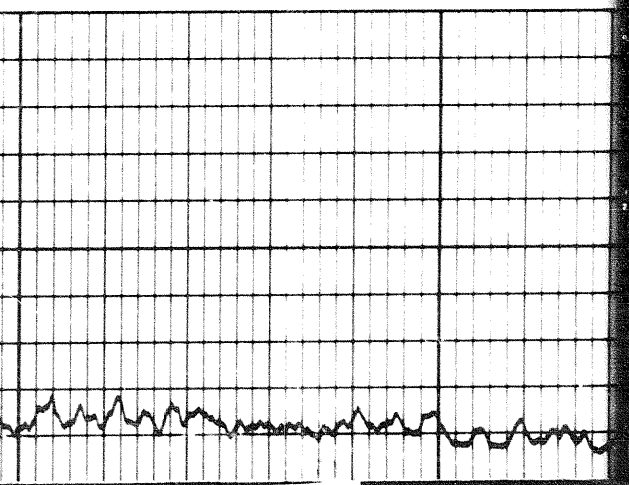

75μ Sec
75μ Sec
12400
12500
12600
GR

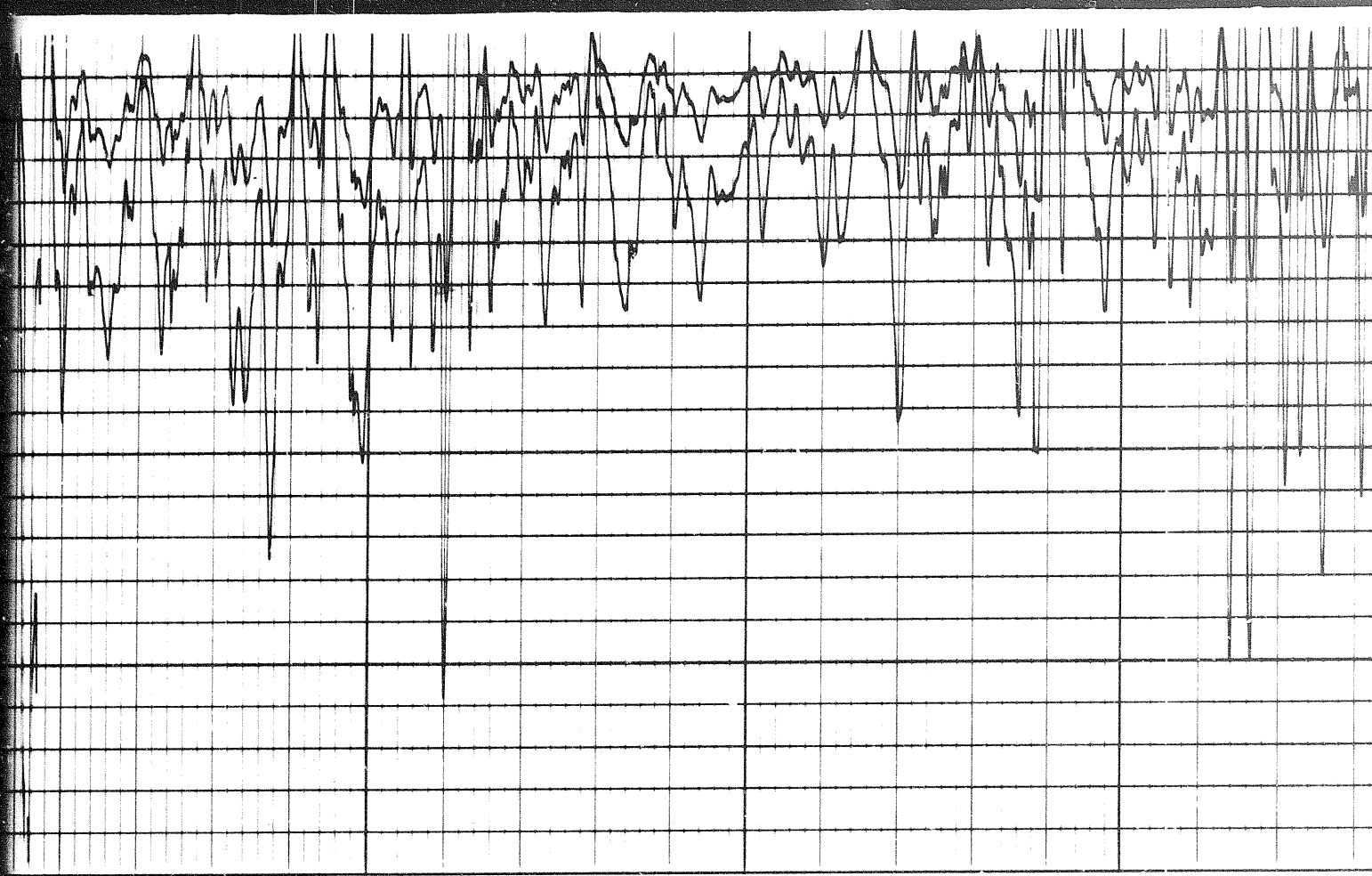

12600
12700
12800



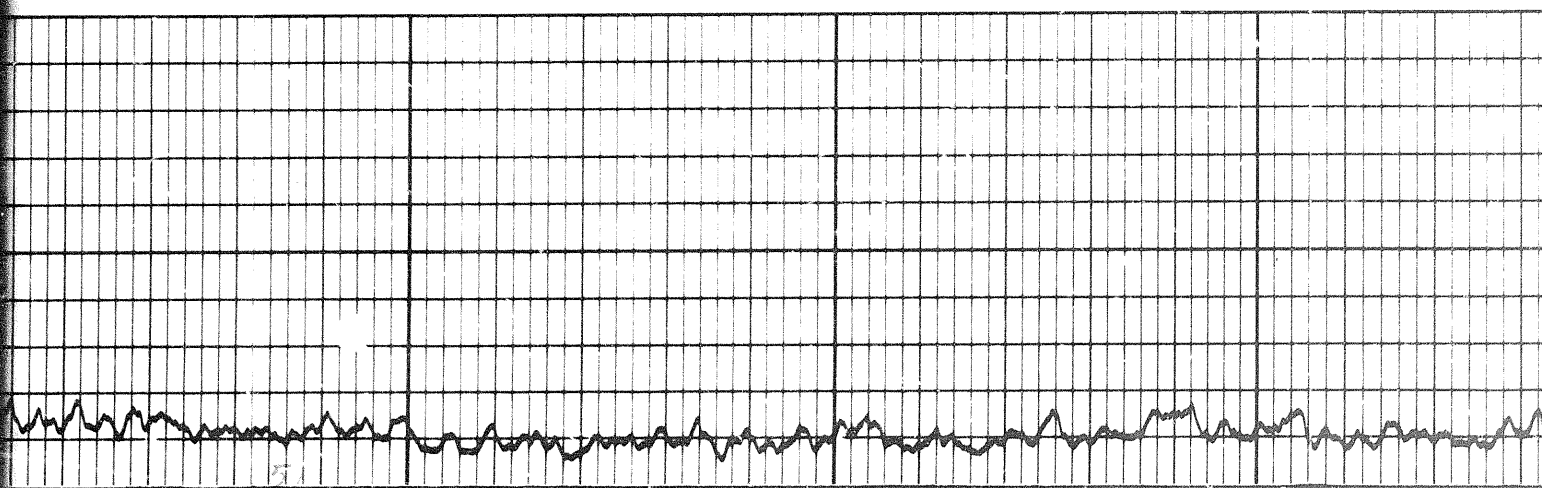


2800

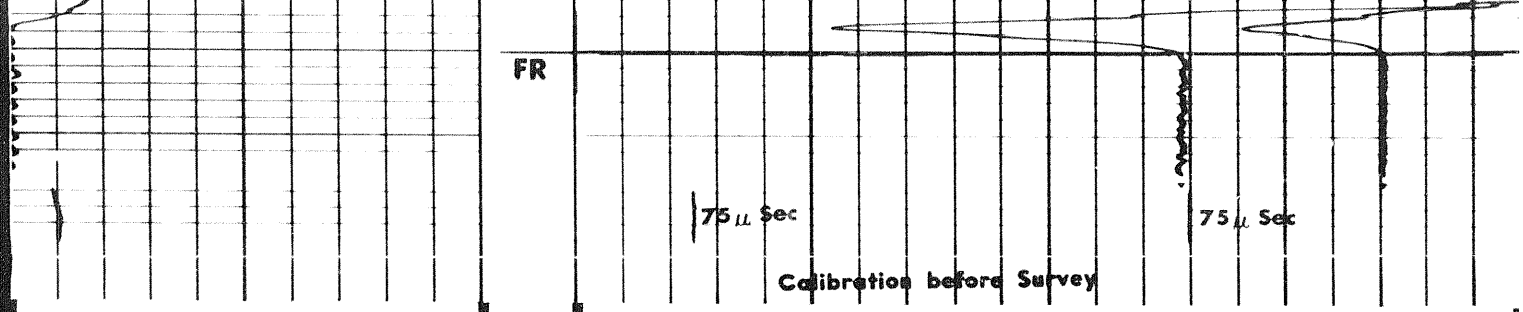




12900




13000
13100
FR
FR
75 μ Sec
75 μ Sec
Calibration before Survey



INTERVAL _____ to _____
Sens. _____ T.C. _____
Logging Speed _____ ft./min.
ZERO _____ div. to left

INTERVAL 9000 to 13180
Sens. 300 T.C. 1
Logging Speed 50 ft./min.
ZERO 0 div. to left
0 120
120 240

GAMMA RAY
API UNITS

140 90 40
80 60 40
INTERVAL TRANSIT TIME
microseconds per foot
← Increases

T
R
R
Spacing 3'
Pickup Span 1'

SONIC

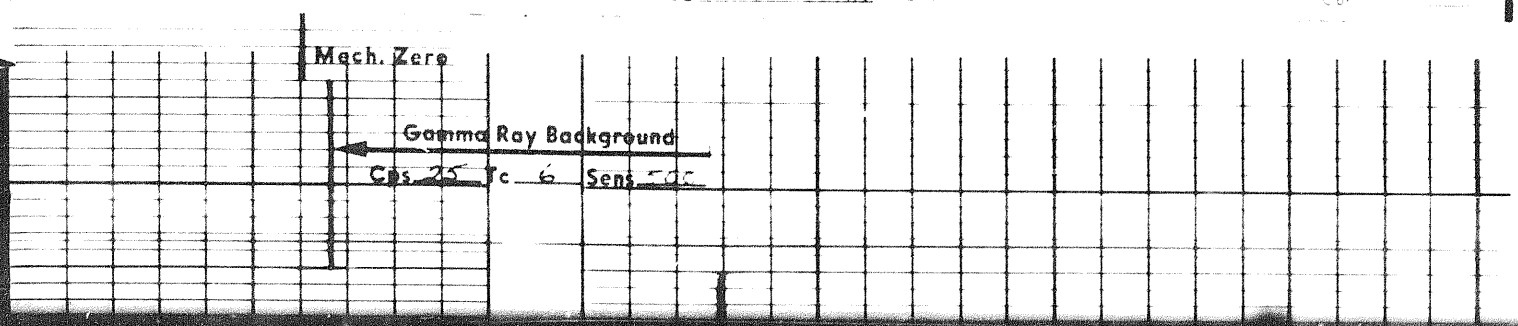
COMPANY THE CALIFORNIA STANDARD COMPANY

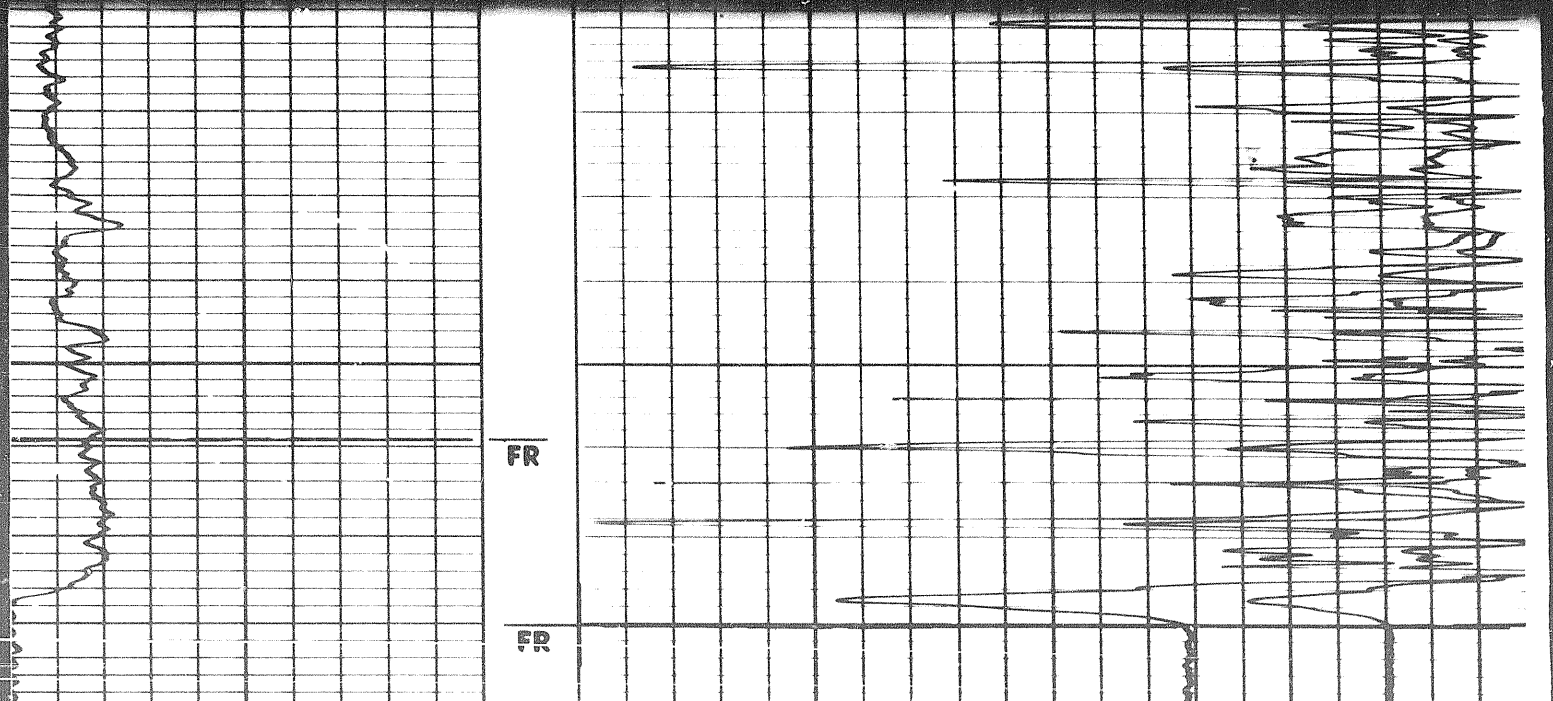
WELL SOBC BLACKSTONE Y.T. D-77

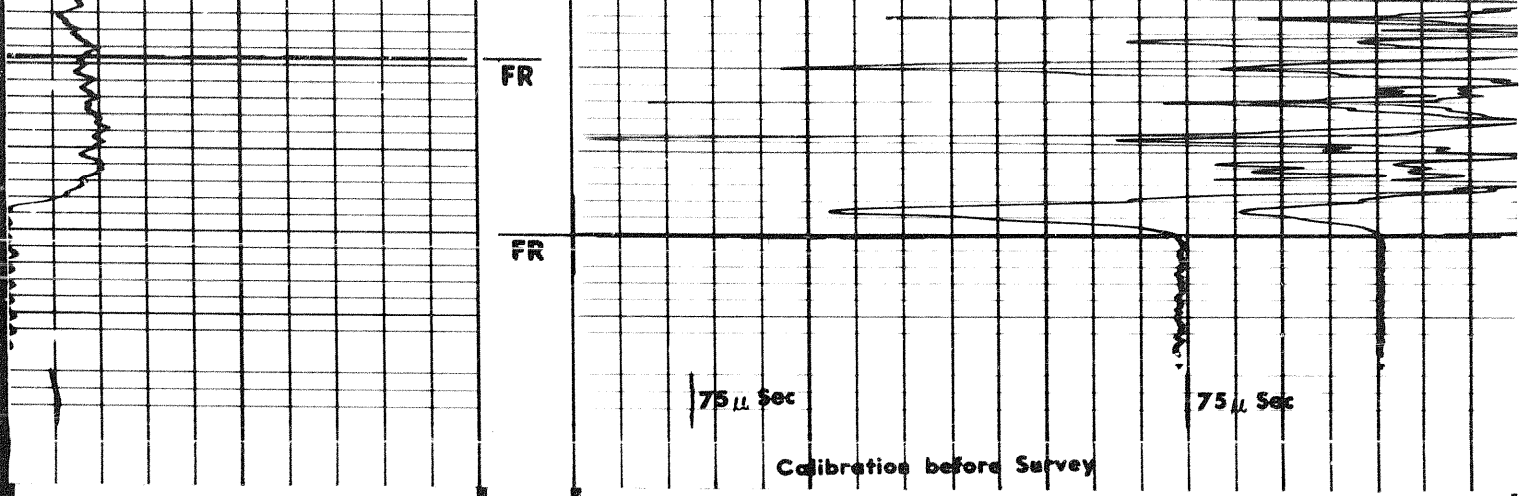
FIELD WILDCAT PROVINCE YUKON TERRITORY

Rm	1.90	@	54	F	SOC FR 13175
Rmf	1.22	@	68	F	SOC TD 13186
Rmc	2.01	@	68	F	DRLR TD 13217
		BHT	210	F	Elev.
					KB 1700 (EST)
					GL 1684 (EST)
					CBF

925







INTERVAL _____ to _____
Sens. _____ T.C. _____
Logging Speed _____ ft./min.
ZERO _____ div. to left

INTERVAL 9000 to 13180
Sens. 300 T.C. 1
Logging Speed 50 ft./min.
ZERO 0 div. to left
0 120
120 240

GAMMA RAY
API UNITS

140 90 40
80 60 40

INTERVAL TRANSIT TIME
microseconds per foot
← Increases

T
R
R
Spacing 3'
Pickup Span 1'

SONIC

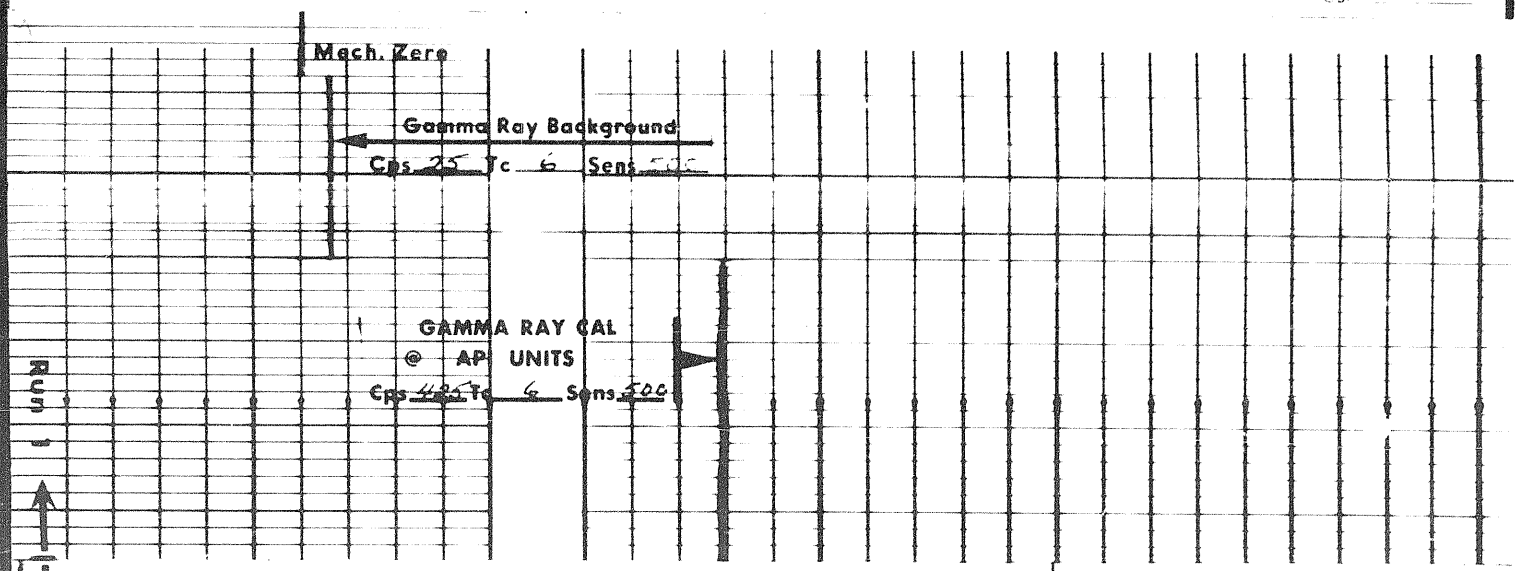
COMPANY THE CALIFORNIA STANDARD COMPANY

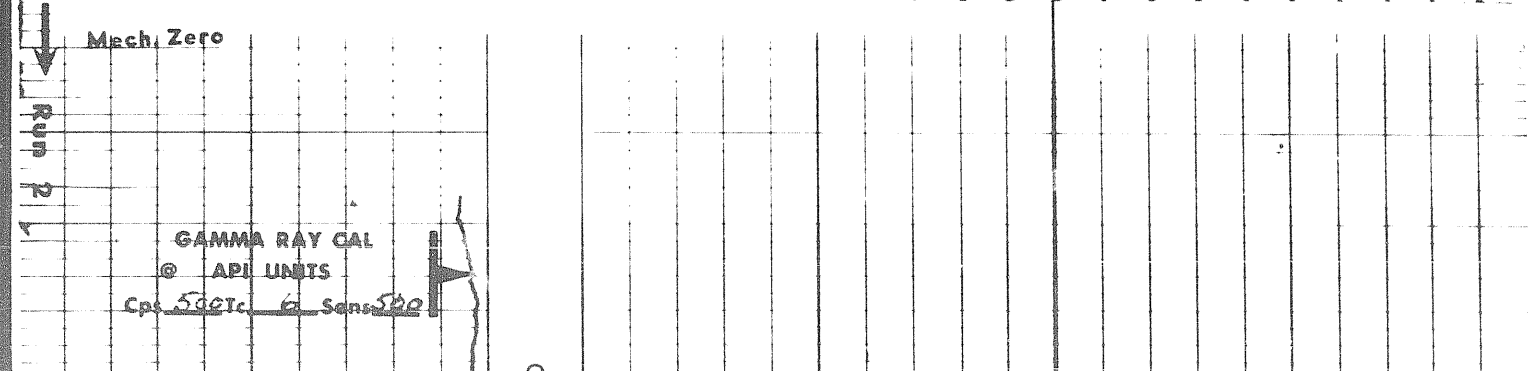
WELL SOBC BLACKSTONE Y.T. O-77

FIELD WILDCAT PROVINCE YUKON TERRITORY

Rm 1.90 @ 54 F
Rmf 1.22 @ 68 F
Rmc 2.01 @ 68 F
BHT 210 F

SOC FR 13175
SOC TD 13186
DRLR TD 13217
Elev.
KB 1700 (EST)
GL 1684 (EST)
CBF

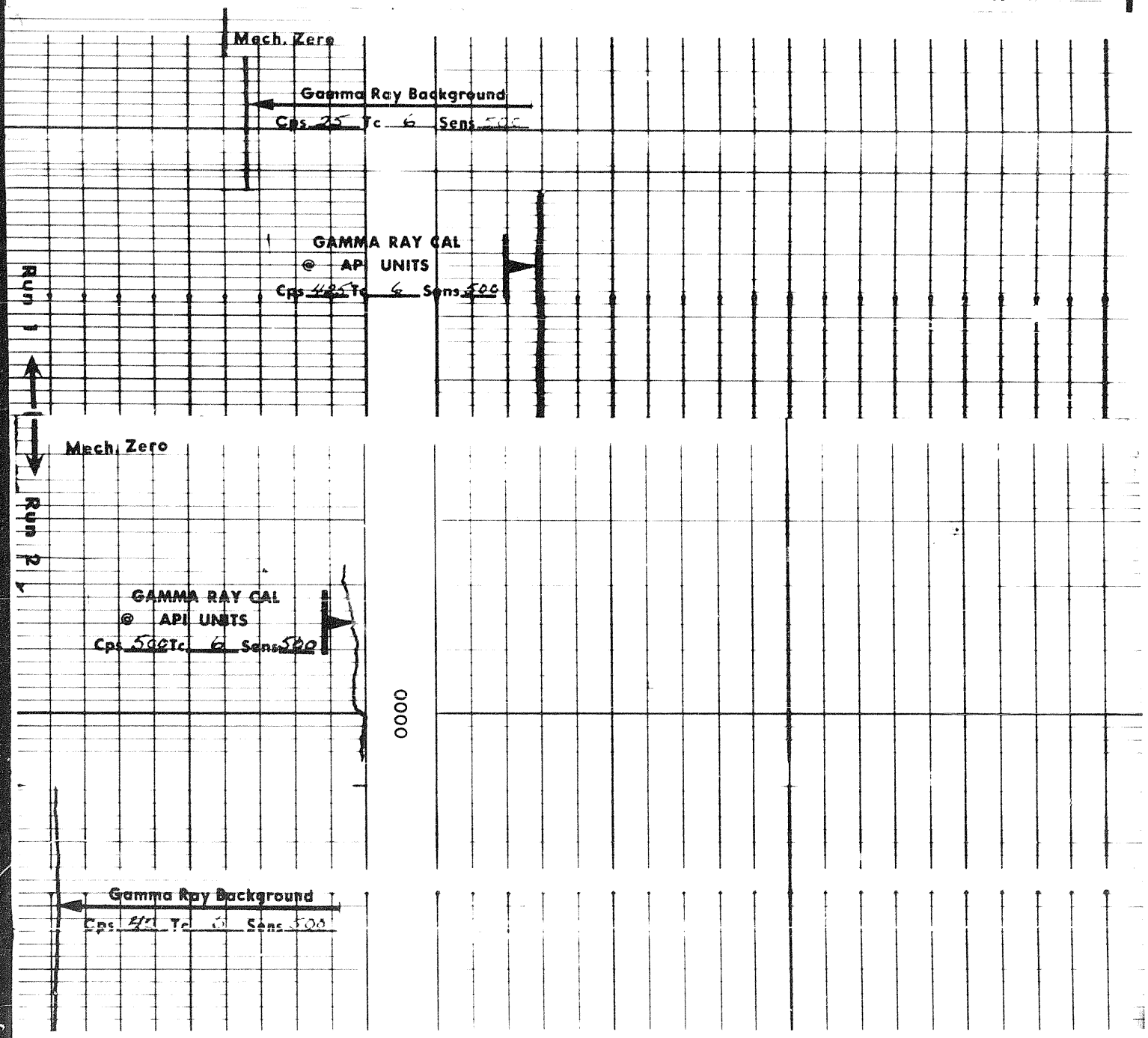




WELL SOBC BLACKSTONE Y.T. D-77

FIELD WILDCAT PROVINCE YUKON TERRITORY

KB 1700 (EST)
GL 1684 (EST)
CBF



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