

SCHLUMBERGER

FORMATION DENSITY LOG

PROVINCE YUKON TERRITORIES
 WELL KILDGAT
 WELL CHEVRON SOBC WM N PARKIN YT
D-61
 COMPANY CHEVRON STANDARD LIMITED

COMPANY CHEVRON STANDARD LIMITED
 WELL CHEVRON SOBC WM N PARKIN YT
 D-61
 WELL KILDGAT
 PROVINCE YUKON TERRITORIES
 LOCATION 66° 20' 12" N LAT
137° 13' 01" W LONG
 Permanent Datum GL Elev. 1590
 Log Measured From KB 15 ft Above Perm. Datum
 Other Services: SLG-CR
SNP, MIC, CST, DIL
 Elev. KB 1605
GL 1590
CR

Time	Depth	Rate	Temp	Pressure	Other
19 JAN 72	ONE				
	1202				
	0				
	1202				
	1203				
	1210				
	1216				
	90				
	GELBROSH HATER				
	9.3				
	60				
	11.0				
	9.5				
	5.7				
	7.15				
	63				
	7.15				
	66				
	7.15				
	80				
	3.20				
	8.3				
	16"				
	6 HRS				
	OSU-G-LOG RDM				
	SUPPLIER				
	POLLARD				

17 MAY 72 CAL. UP

REMARKS

Drilling Stopped 0130 / 19th : Circulation Stopped 0230 / 19th : Tool on Bottom 1230 / 19th : 1st Run Service Order # 7780
 RUN 2: 1200 17th 0915 29th 1600 29th B.H.T. 66
 220

Panel No. EC 573 FA 234
 Cartridge No. A 341 A 34
 Scraper No. E 90 F 556
 Detector No. D 194 A 88

RUN 2: CIRCULATION STARTED 0500 / 29th
 MUD SAMPLES: Rm #1 = 2.66 @ 79°F
 Rm #2 = 2.71 @ 77°F
 Rm #3 = 2.86 @ 76°F

DUE TO HIGH VLSC. MUD EXCESSIVE FILTER CAKE ON BOTTOM

CALIBRATION:

	Background CPS	Test Source CPS	Galvanometer Deflection Div.	Panel Sens. Tap for Cal.
Gamma Ray	60	420	10.0	100
RUN 2:	40	420	10.0	-

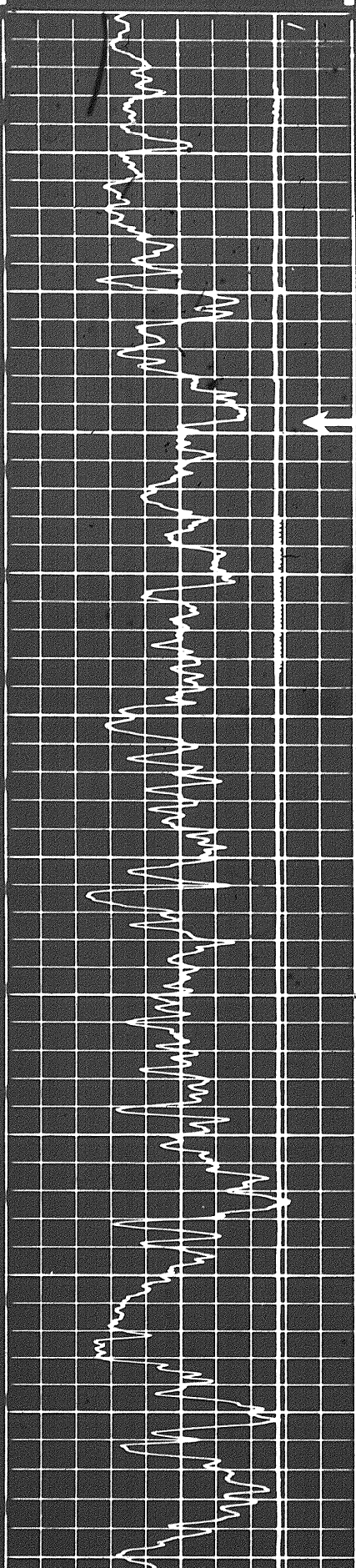
GAMMA RAY API UNITS	DEPTHS	BULK DENSITY P _b - gm/cc	DENSITY CORRECTION ΔP - gm/cc
Sens. 100 T.C. 2 Zero 0 div. to left 0 100 100 200		2.0 2.5 3.0	0.25 0 0.25 (-) (+)
CALIPER hole diameter in inches			
11 12 13 14 15 16 17 18 19			

hole diameter in inches

11 12 13 14 15 16 17 18 19

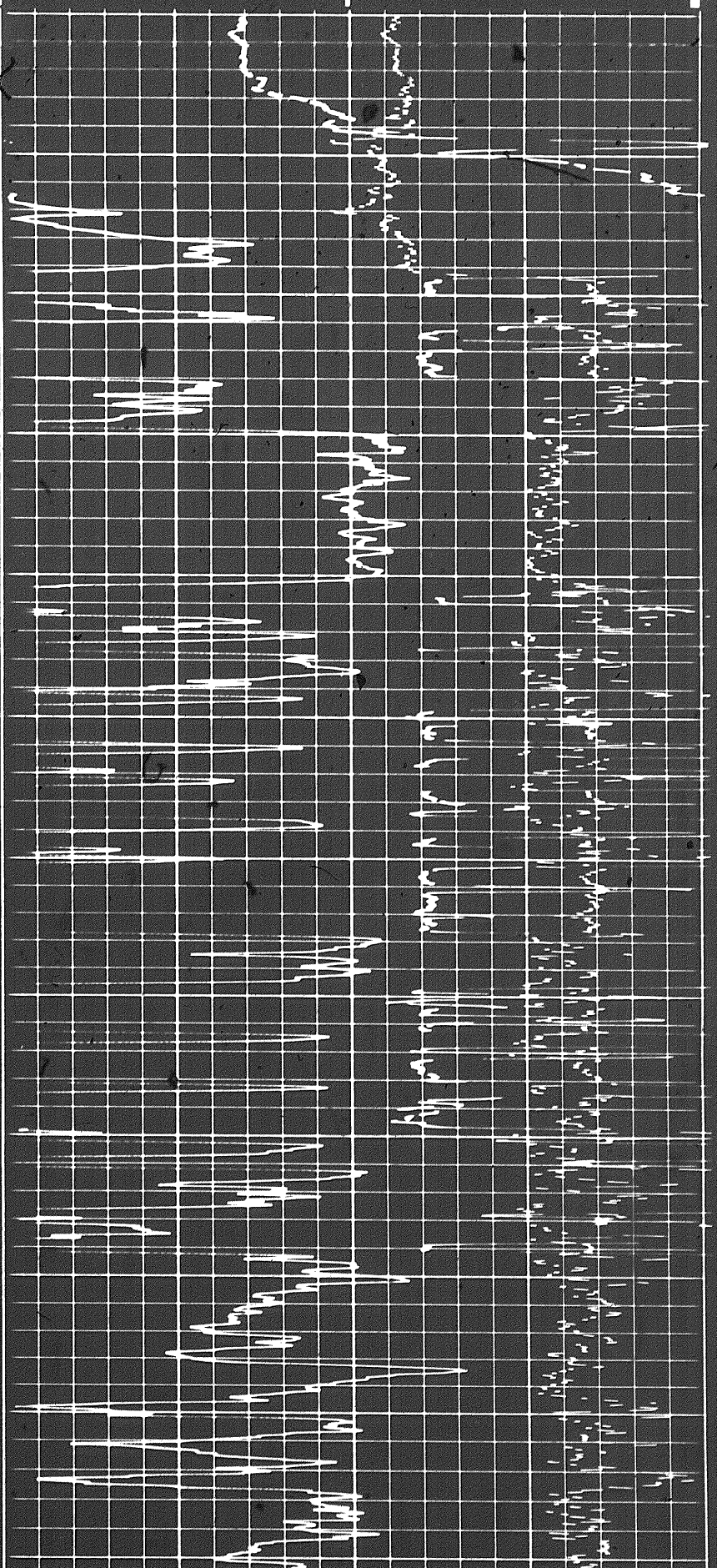
$\Delta P - \text{gm/cc}$

0.25 (-) 0 0.25 (+)

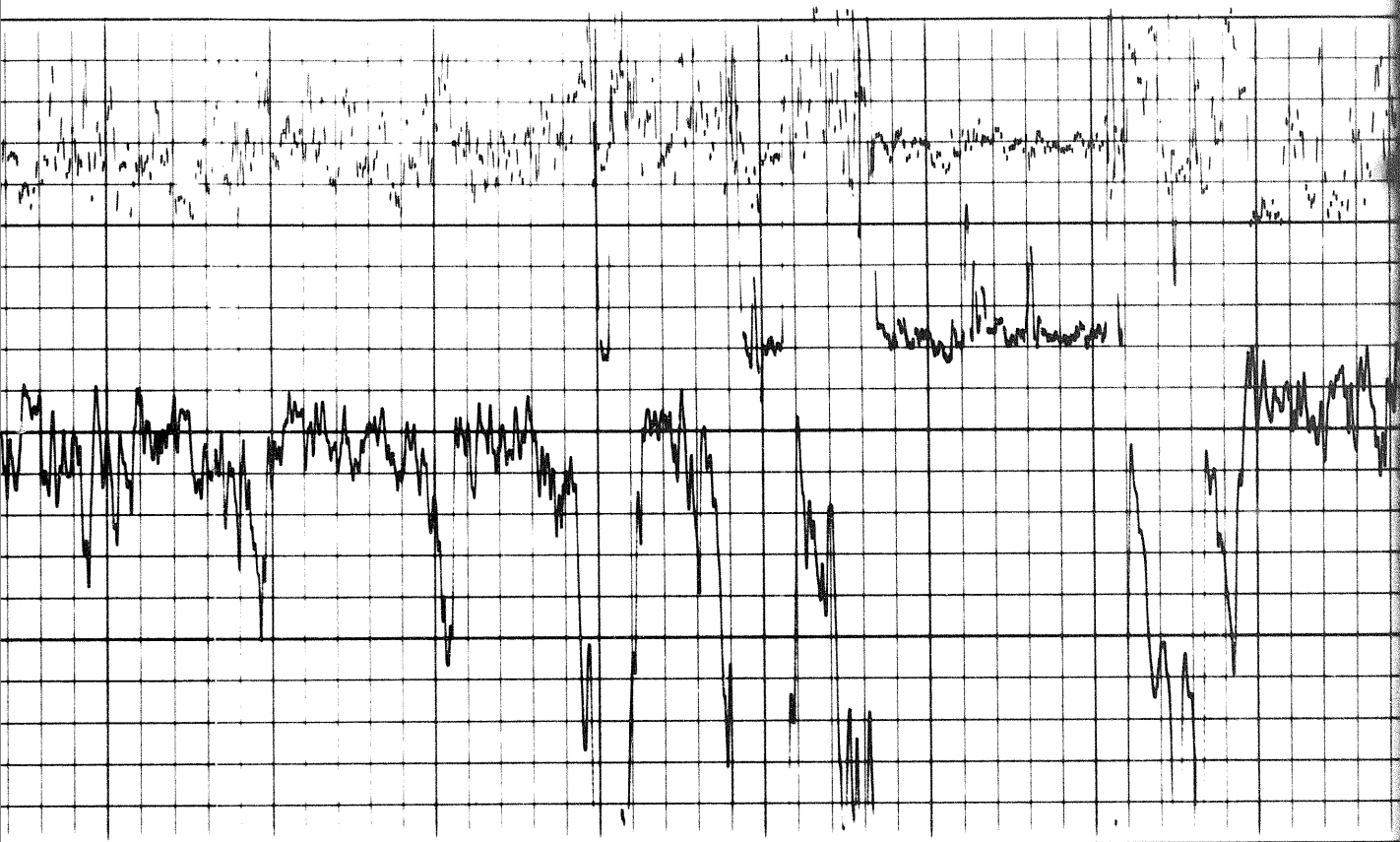


000
0100
0200
0300
0400
0500

Casing



170



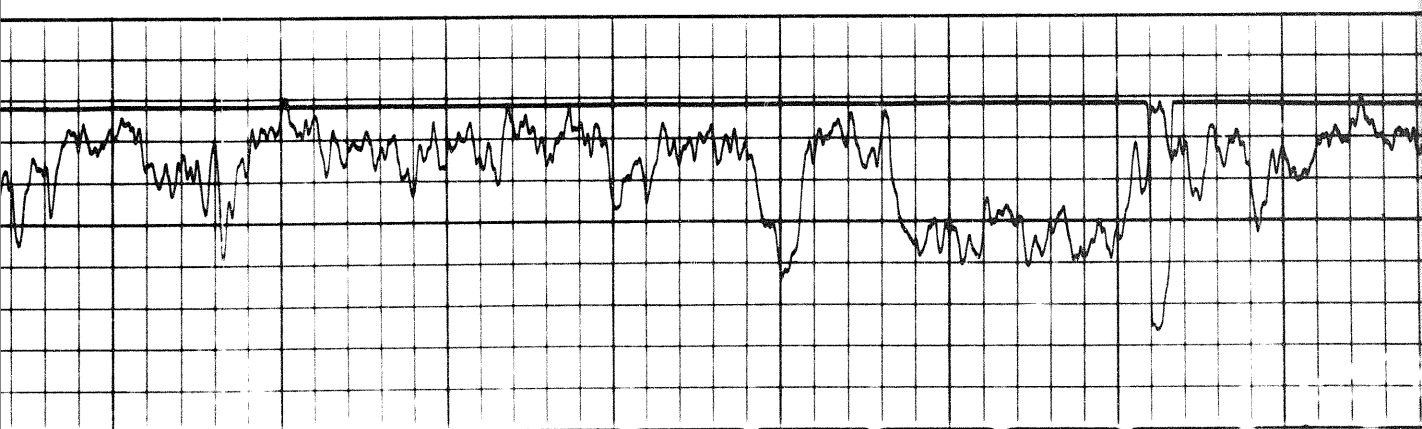
0600

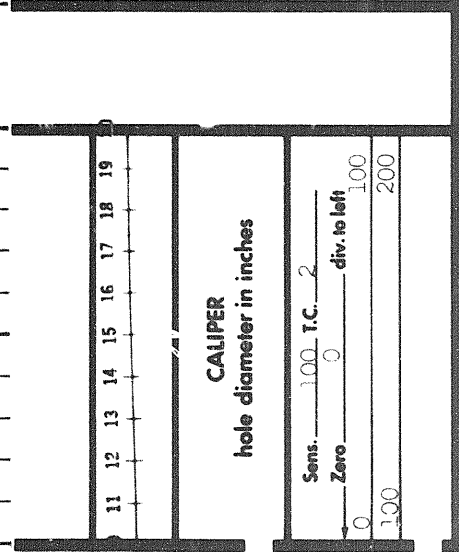
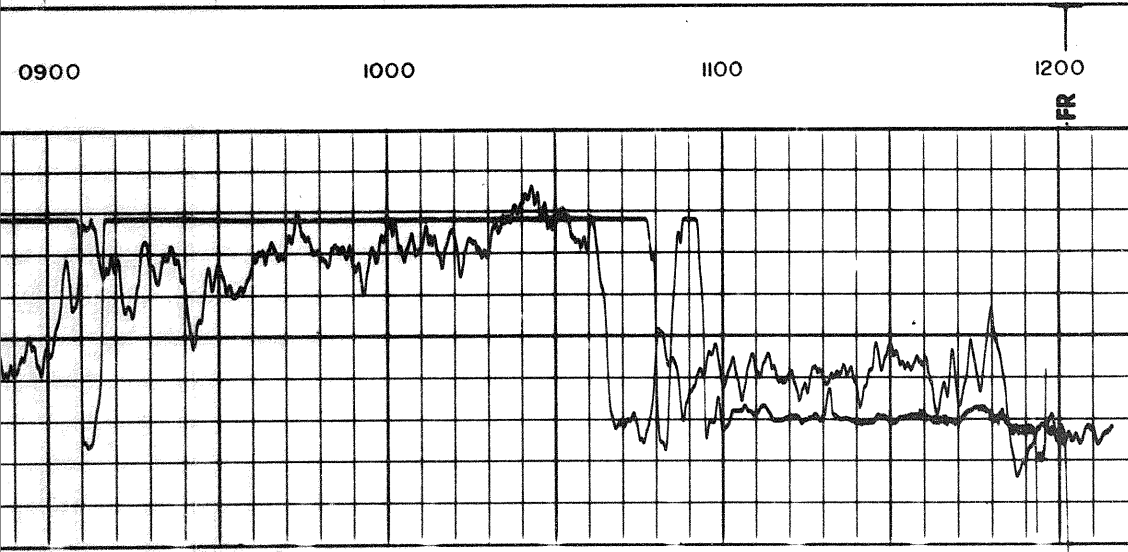
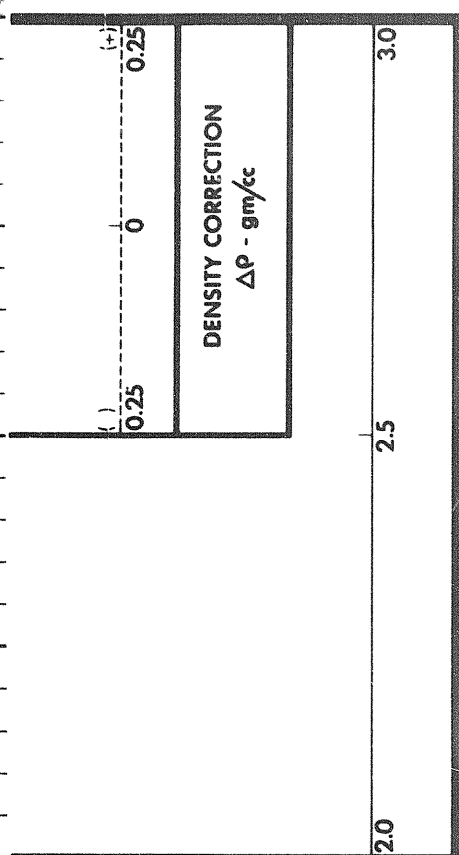
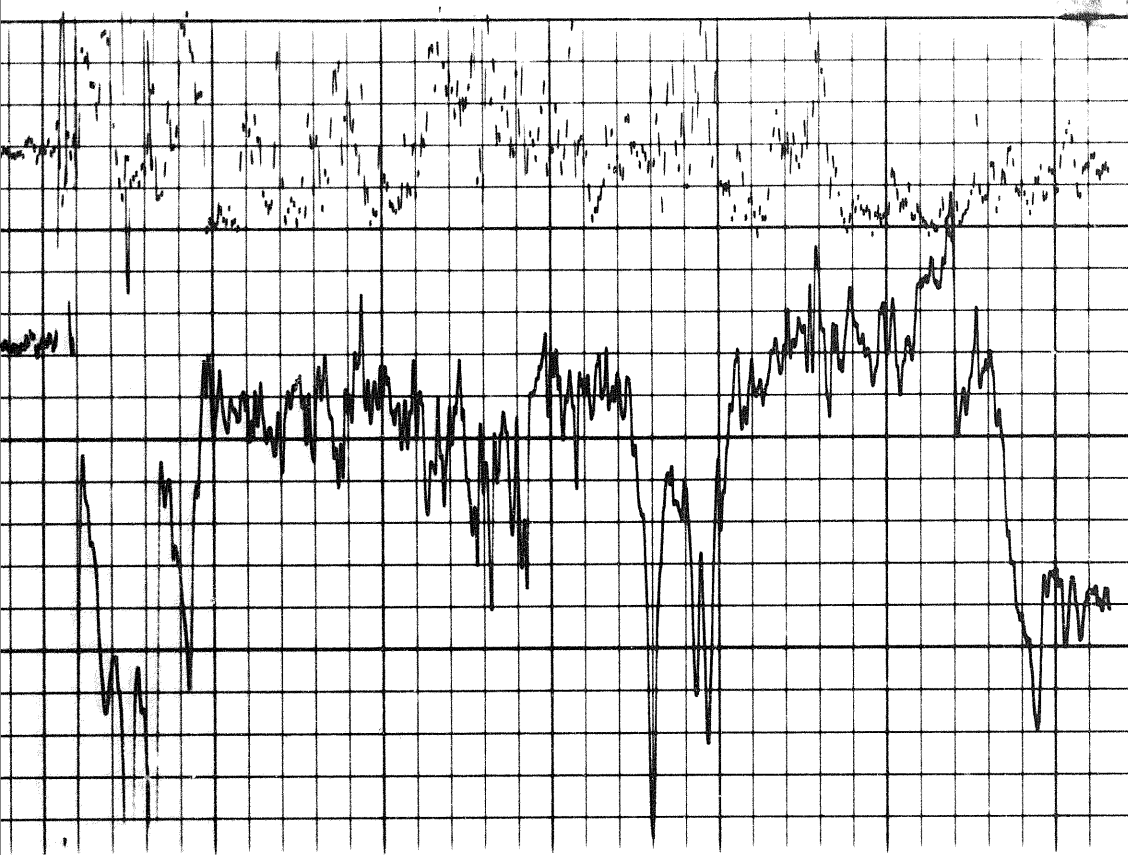
0700

0800

0900

0800





0900 1000 1100 1200

FR

DENSITY CORRECTION
Δρ - gm/cc

CALIPER
hole diameter in inches

GAMMA RAY

Sens. 100 T.C. 2
Zero 0 div. to left
100
200

Speed in FPM

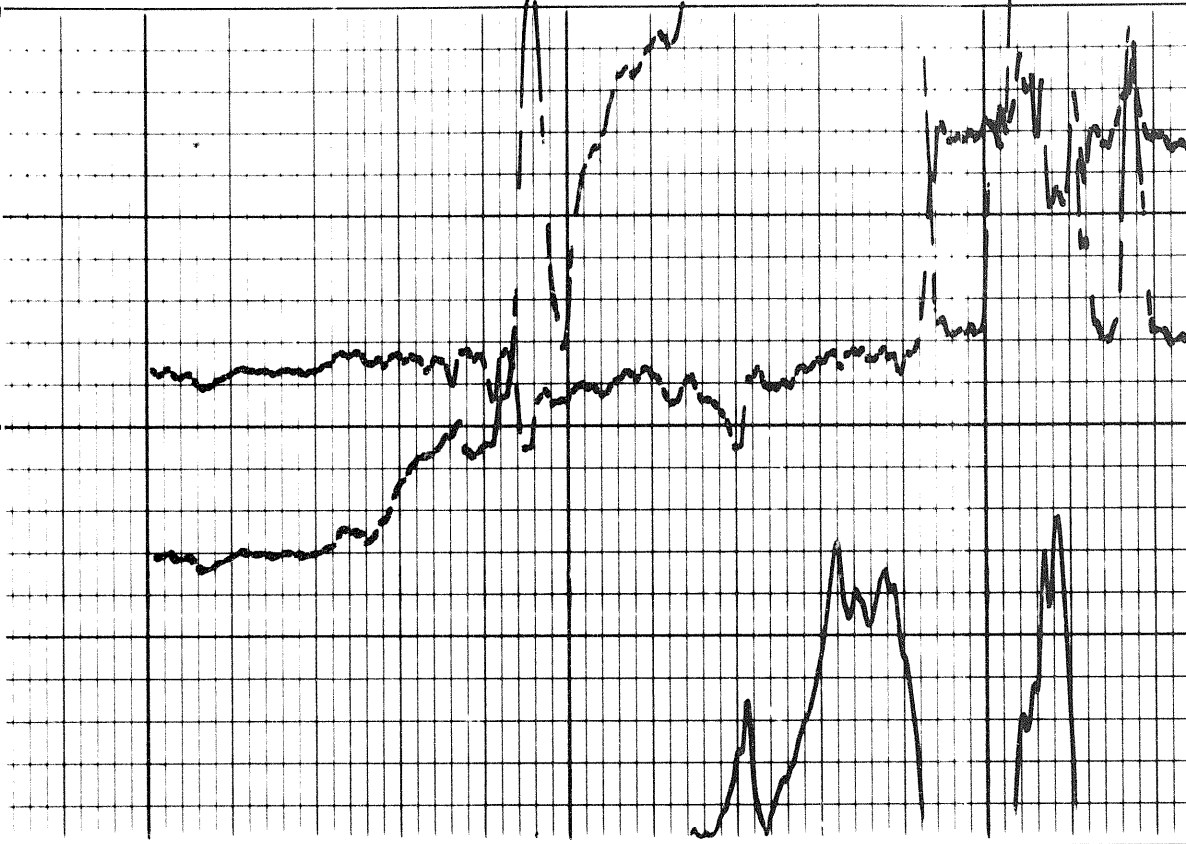
BULK DENSITY

DEP

GAMMA RAY

2.0 2.5 3.0

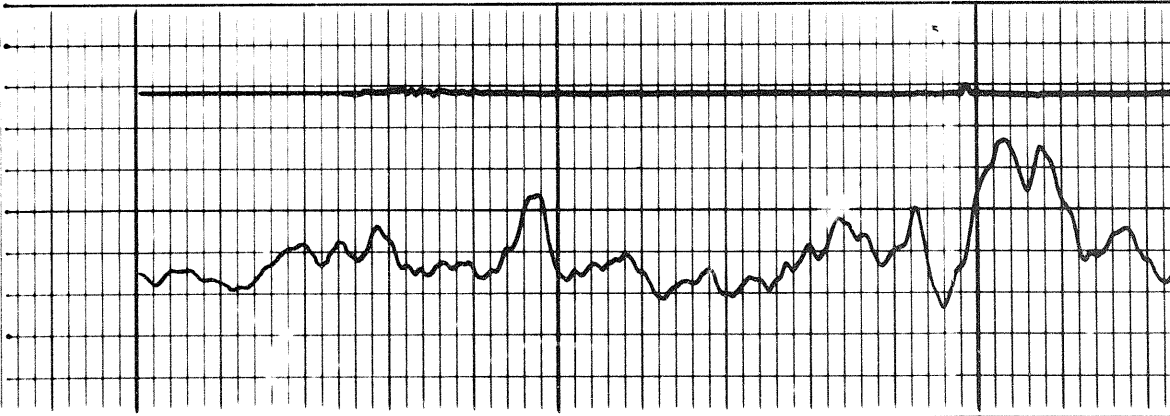
DENSITY CORRECTION
 $\Delta P - \text{gm/cc}$
0.25 (-) 0 0.25 (+)



0000

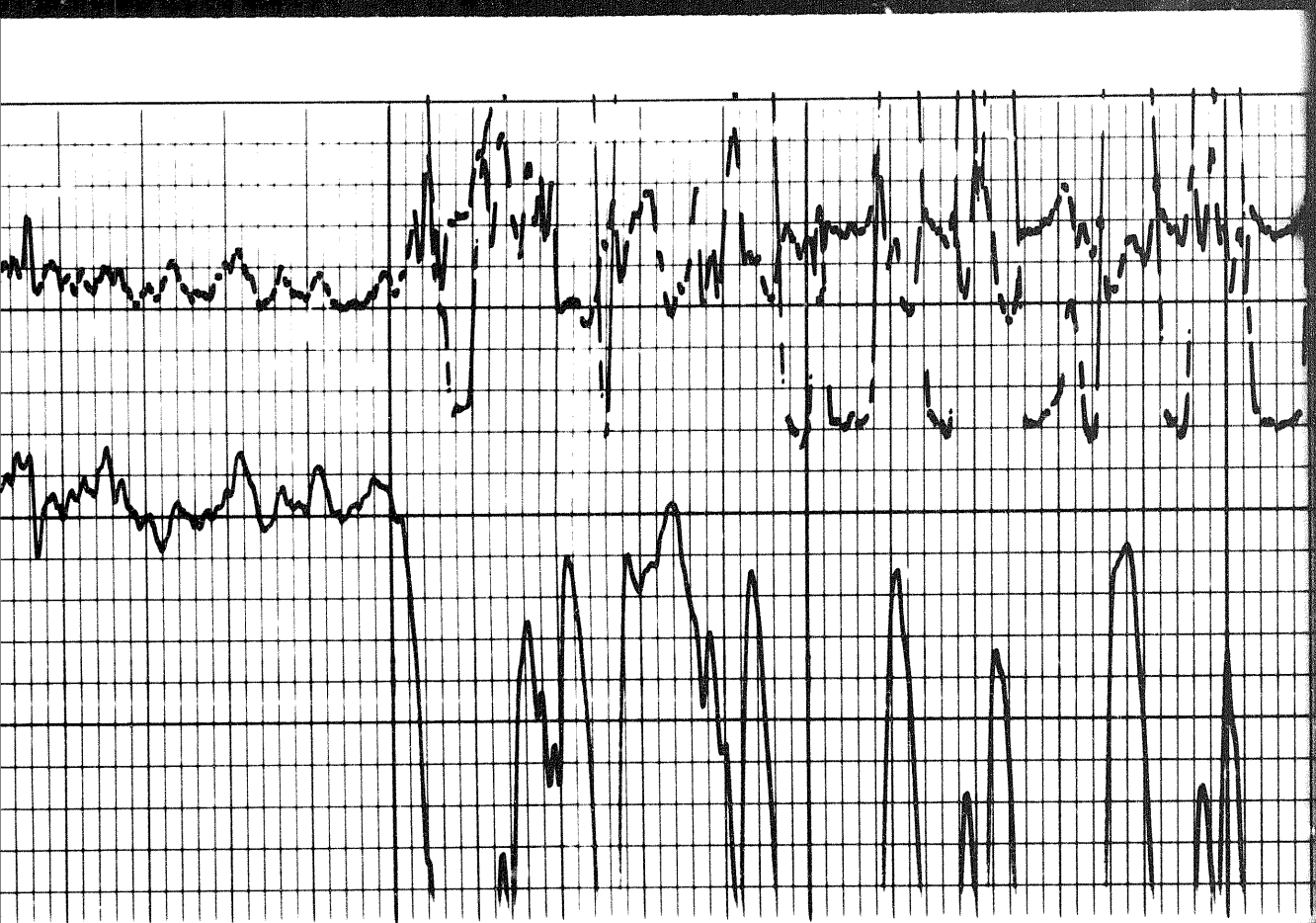
0100

Sens. 1.00 I.C. 2
Zero 0 div. to left 1.00 2.00
0 1.00
CALIPER
hole diameter in inches
11 12 13 14 15 16 17 18 19



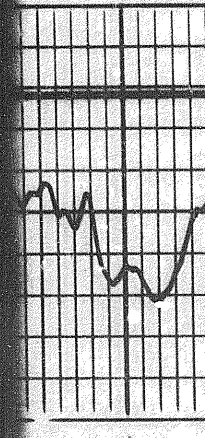
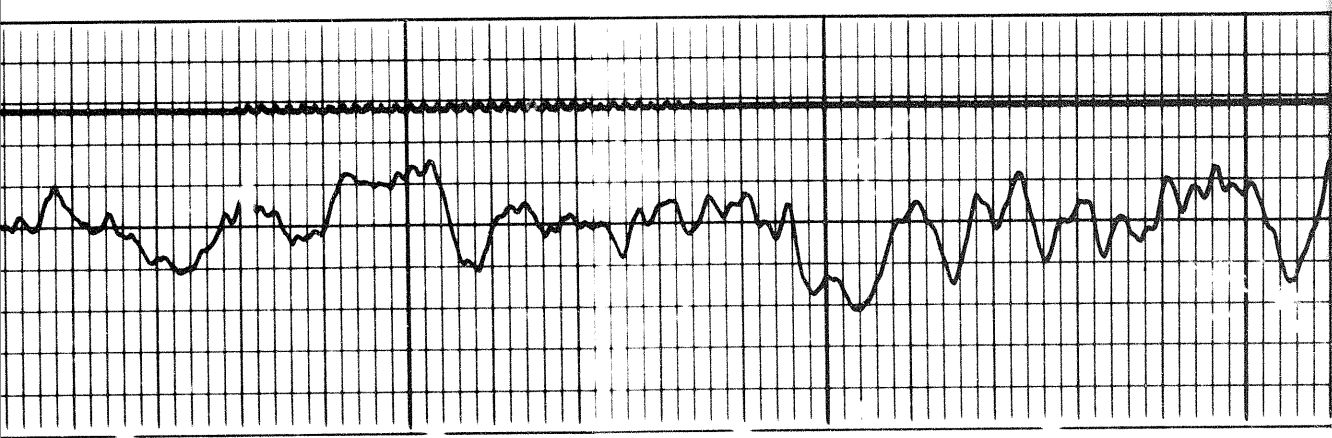
Speed in FPM

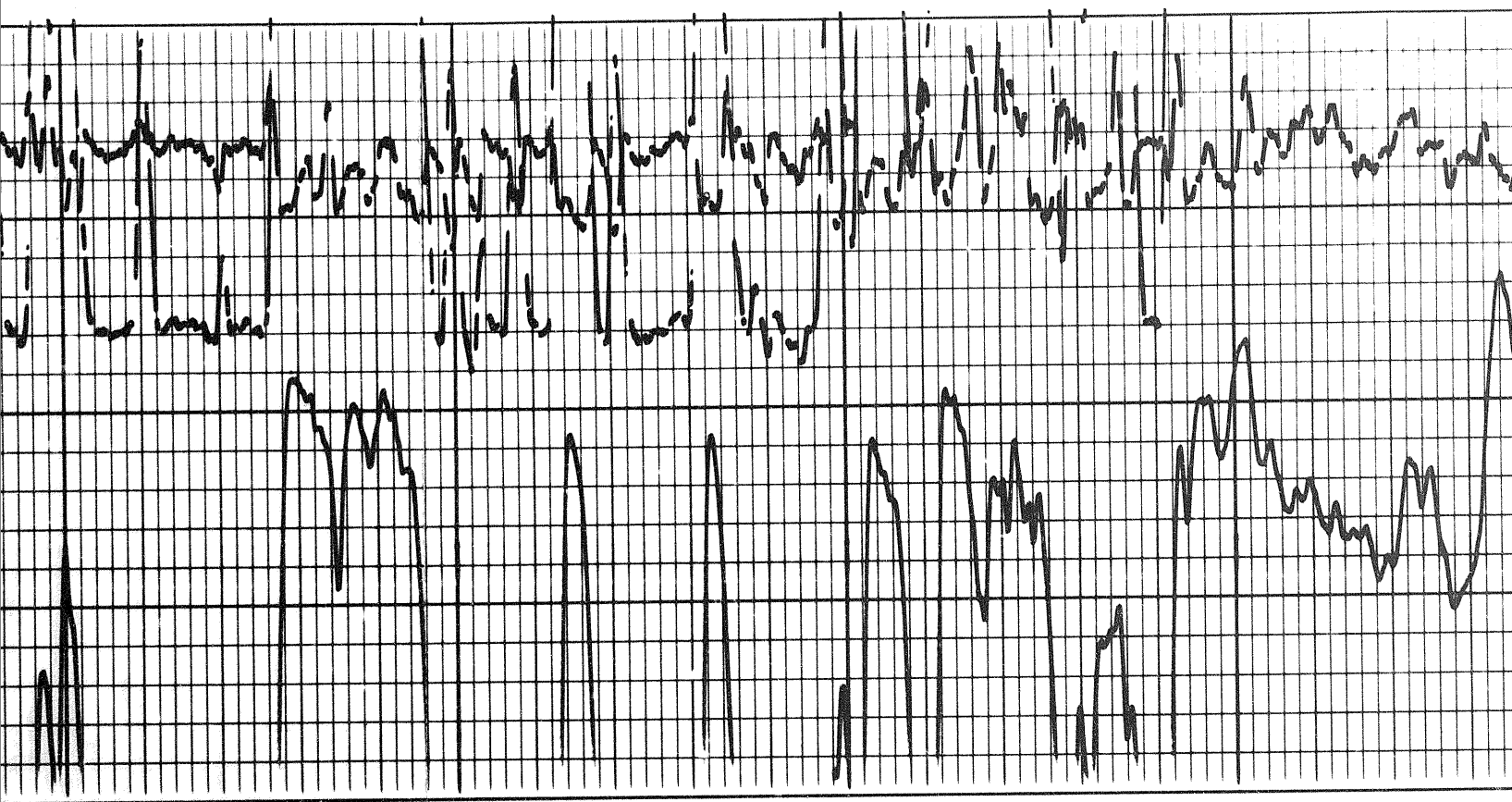
2 of



0200

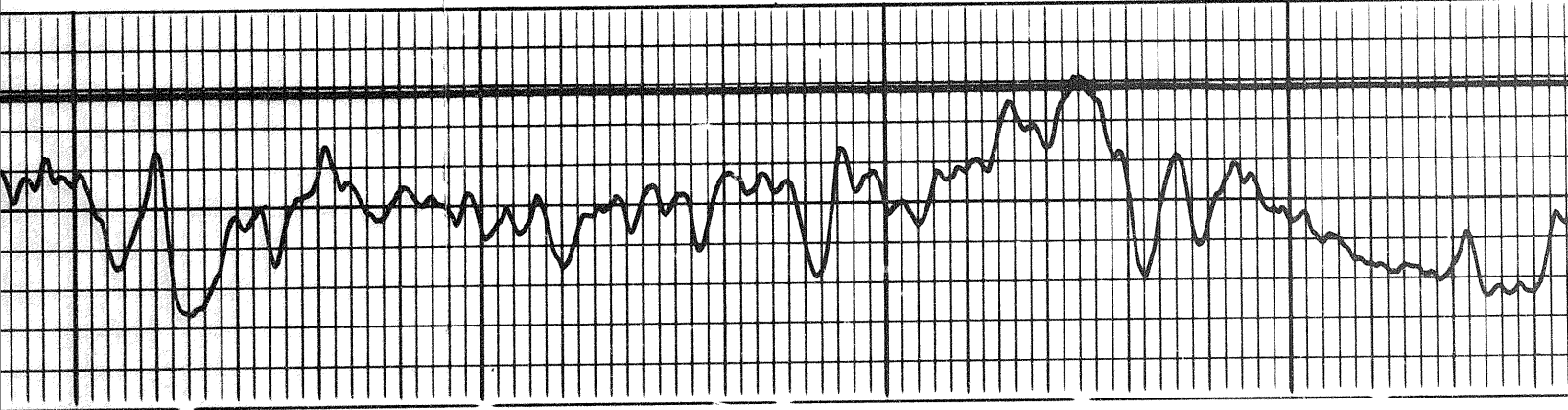
0300

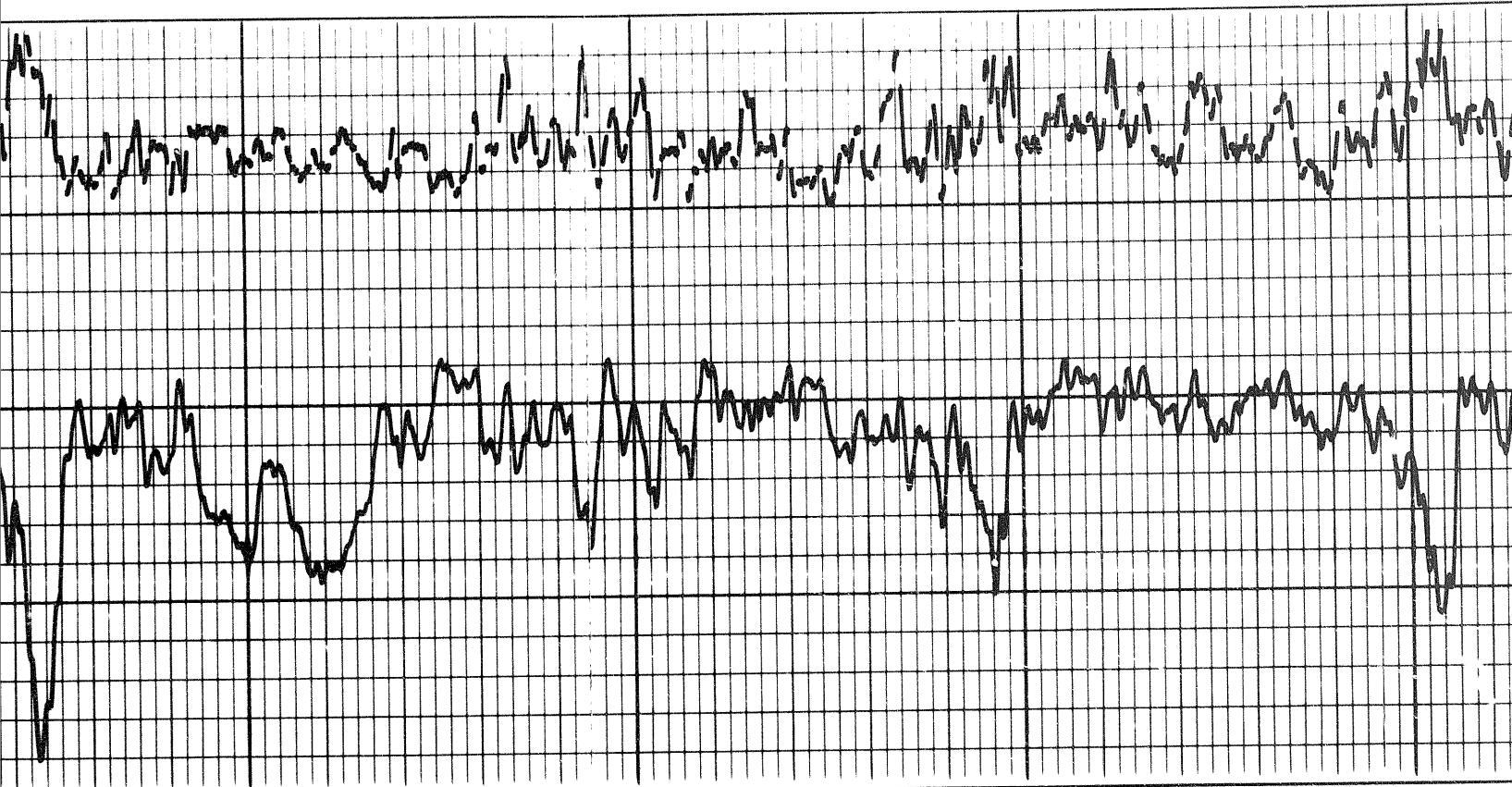




0300

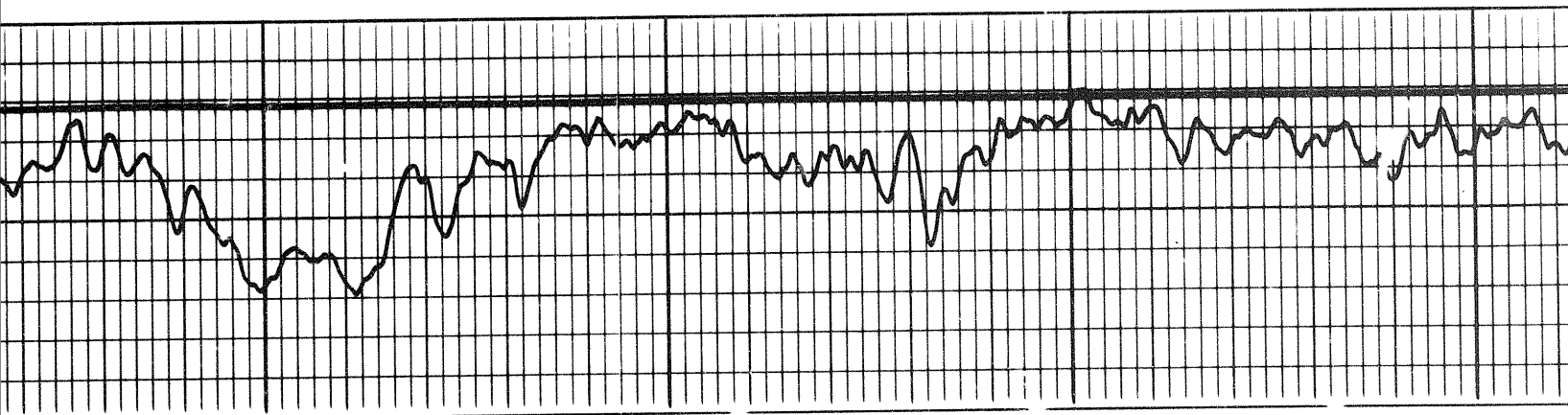
0400



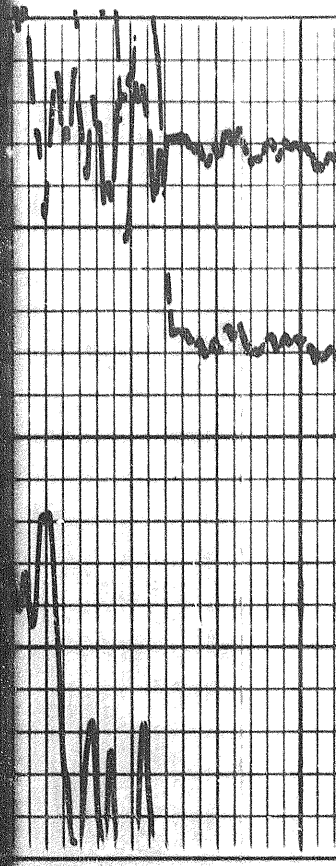
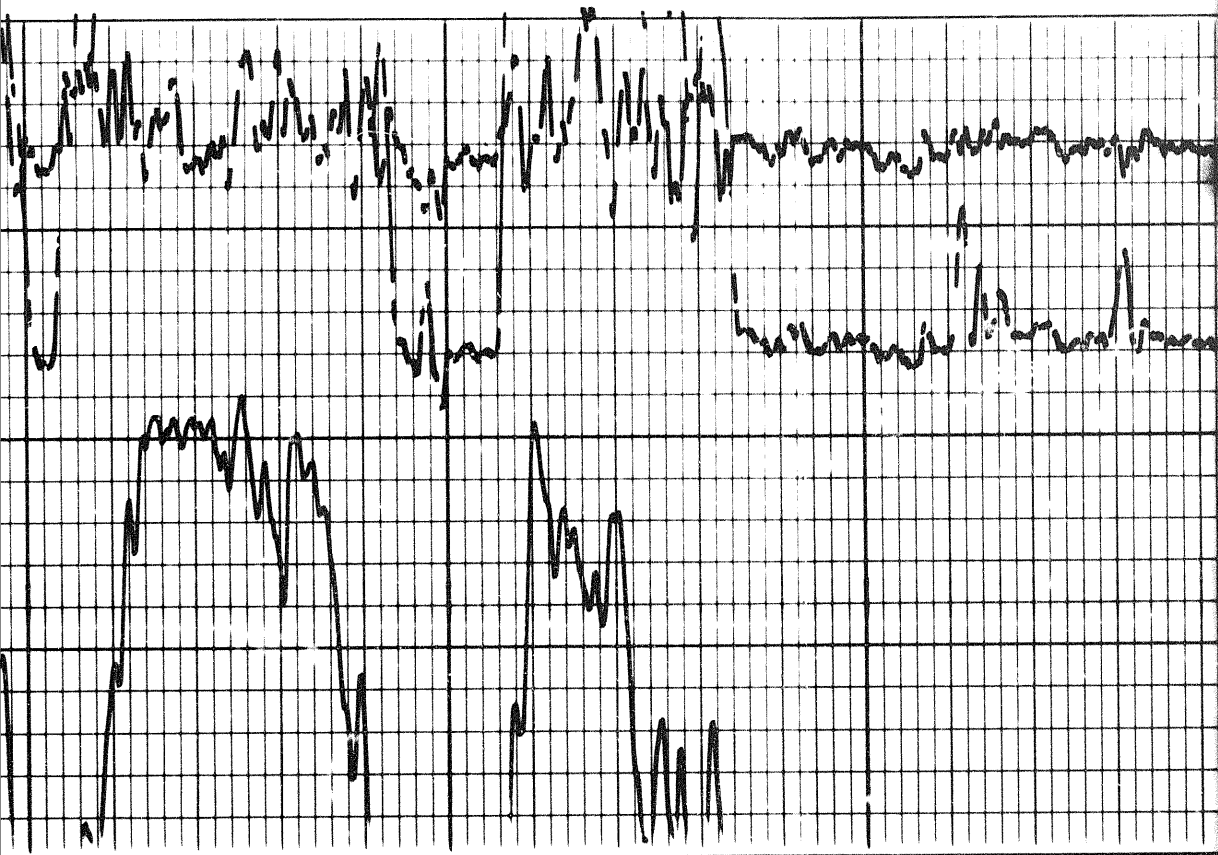


0600

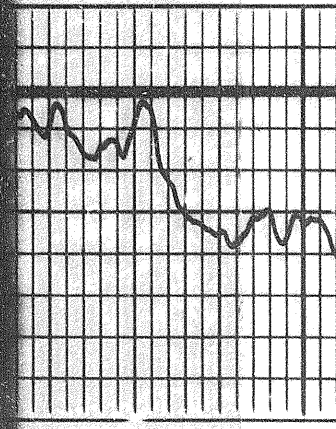
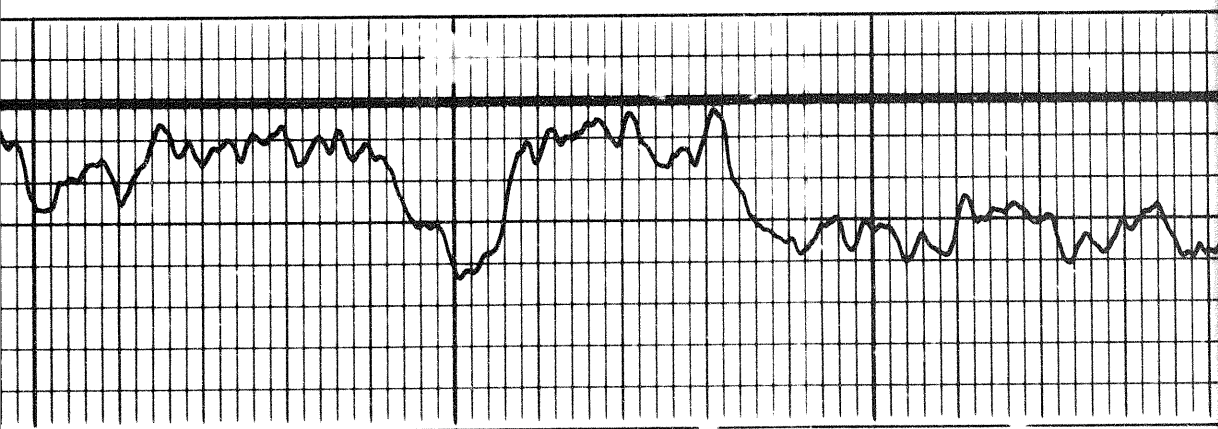
0700

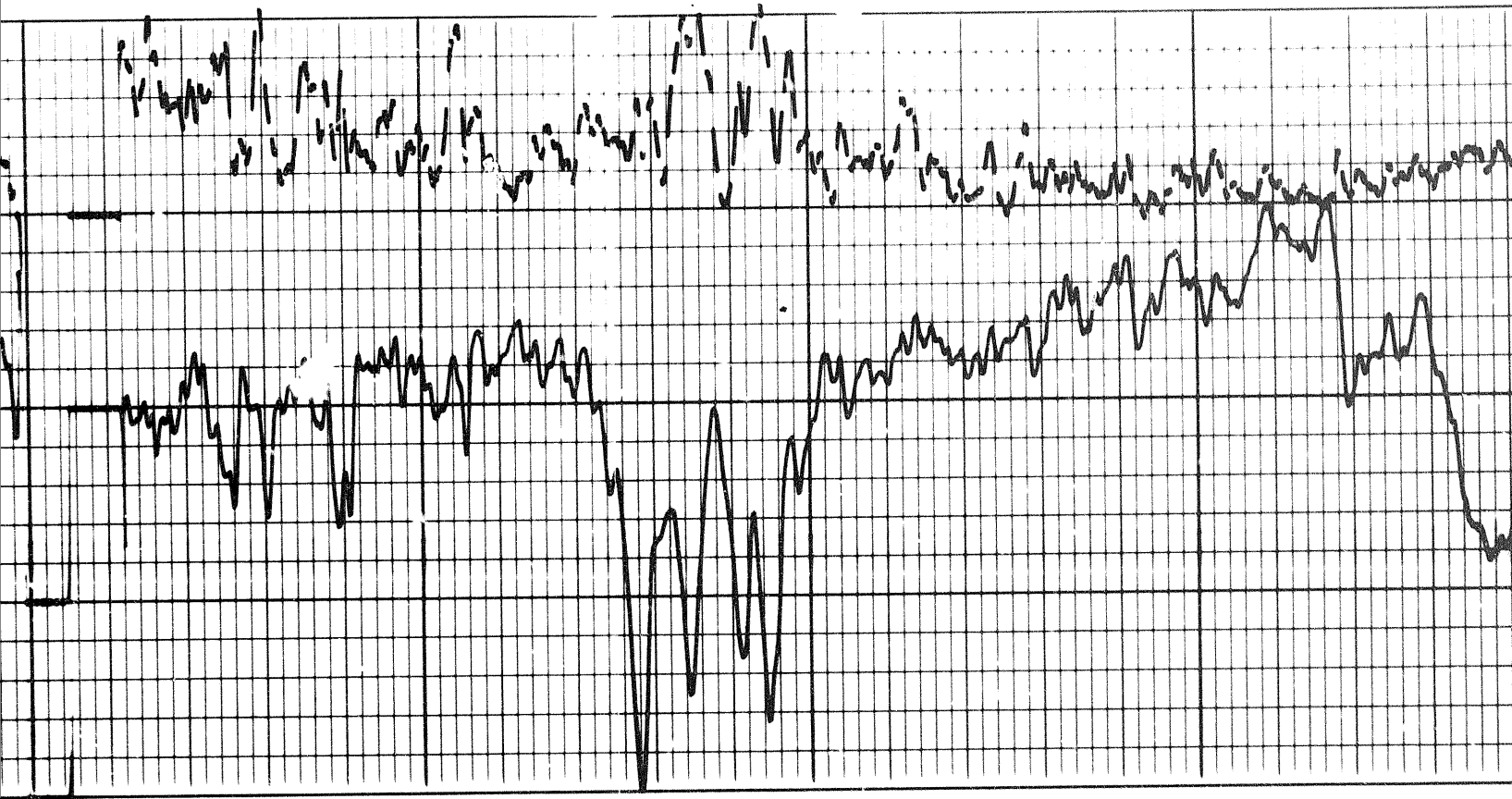


3 of



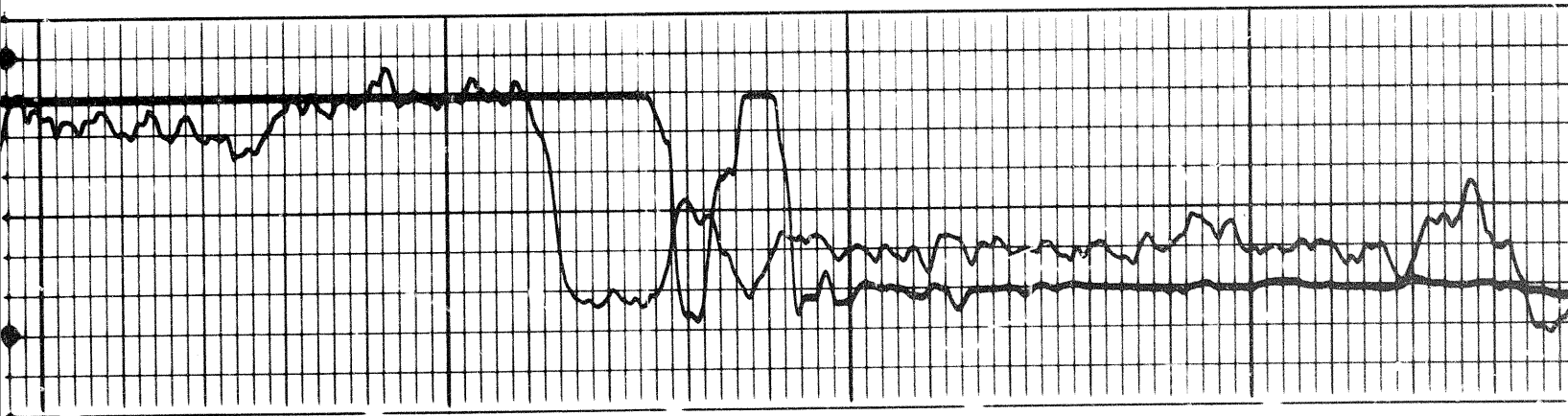
0800

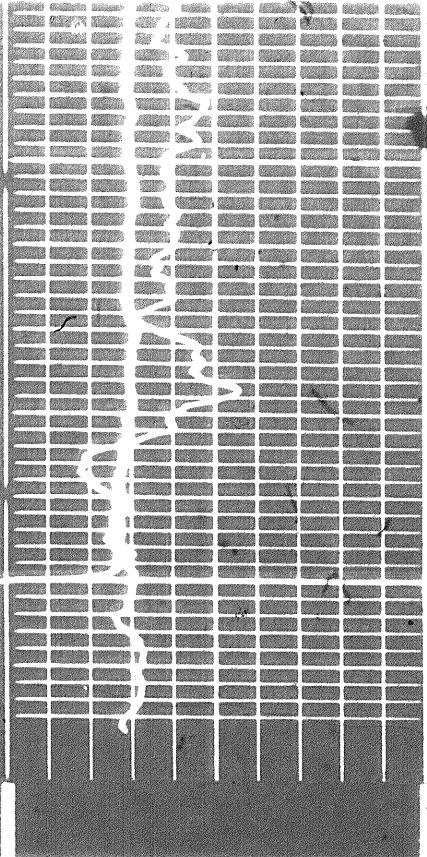




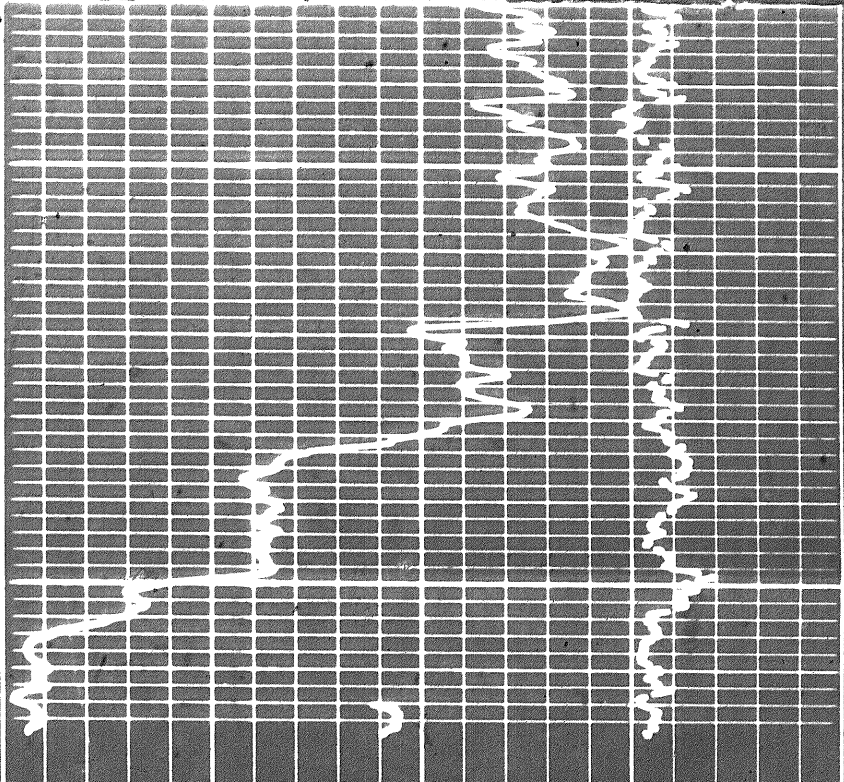
1000

1100





1200



CALIPER
hole diameter in inches

Sens. 100 T.C. 2
Zero _____ div. to left
0 100
100 200

Speed in FPM



DENSITY CORRECTION
 $\Delta\rho$ - gm/cc

GAMMA RAY
API UNITS

DEPTH

BULK DENSITY
 ρ_b - gm/cc

DETAIL LOG RUN 2
5' - 100'

GAMMA RAY
API UNITS

DEPTH

BULK DENSITY
 ρ_b - gm/cc

Sens. 150 T.C. 2
Zero 0 div. to left
0 150
150 300

Speed in FPM

CALIPER
hole diameter in inches

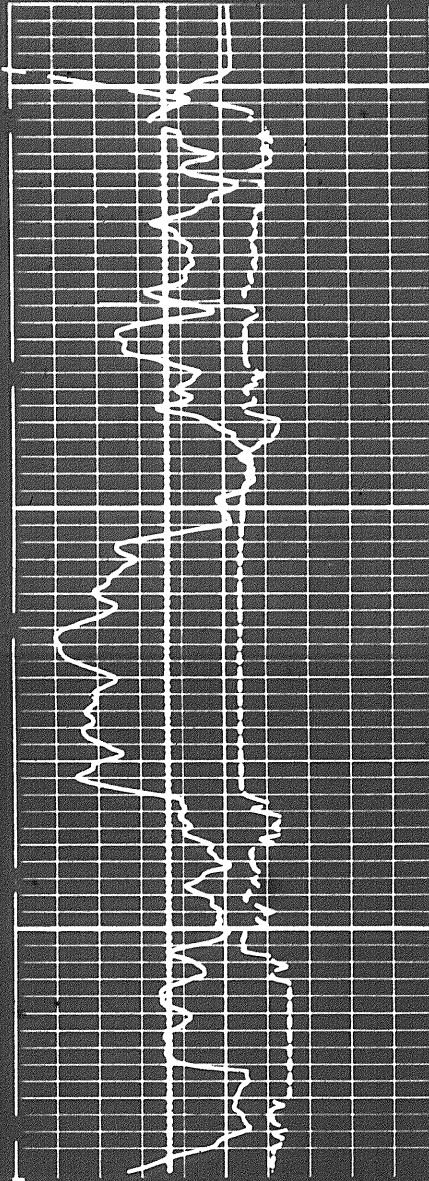


DENSITY CORRECTION
 $\Delta\rho$ - gm/cc

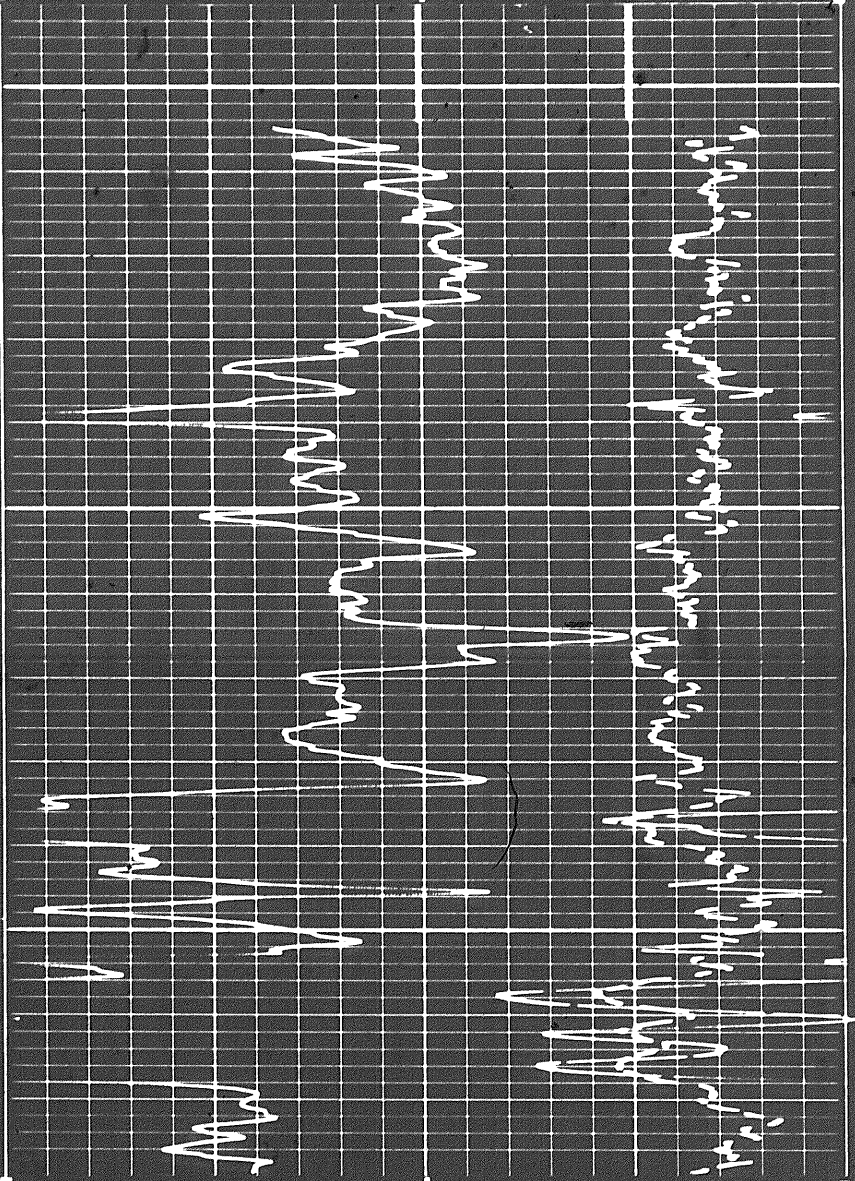


6 7 8 9 10 11 12 13 14

0.25 (-) 0 0.25 (+)



1500



(-) 0.25 0 0.25 (+)

6 7 8 9 10 11 12 13 14

CALIPER
hole diameter in inches

DENSITY CORRECTION
 $\Delta\rho - \text{gm/cc}$

Sens. 150 T.C. 2
Zero 0 div. to left

0 150 300

2.0 2.5 3.0

Speed in FPM

GAMMA RAY
API UNITS

DEPTH

BULK DENSITY
 $\rho_b - \text{gm/cc}$

DETAIL LOG
5' = 100'

RUN 2

GAMMA RAY
API UNITS

DEPTH

BULK DENSITY
 $\rho_b - \text{gm/cc}$

DETAIL LOG
5" = 100'

RUN 2

GAMMA RAY
API UNITS

DEPTHS

BULK DENSITY
 ρ_b - gm/cc

Speed in FPM
Sens. 150 T.C. 2
Zero 0 div. to left
150 150
300 300

CALIPER
hole diameter in inches

6 7 8 9 10 11 12 13 14

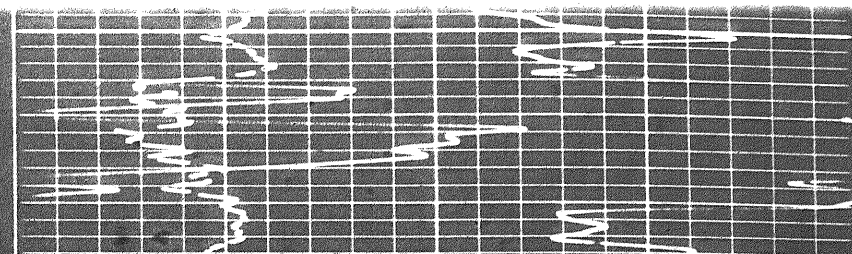
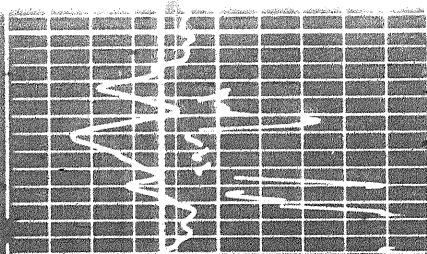
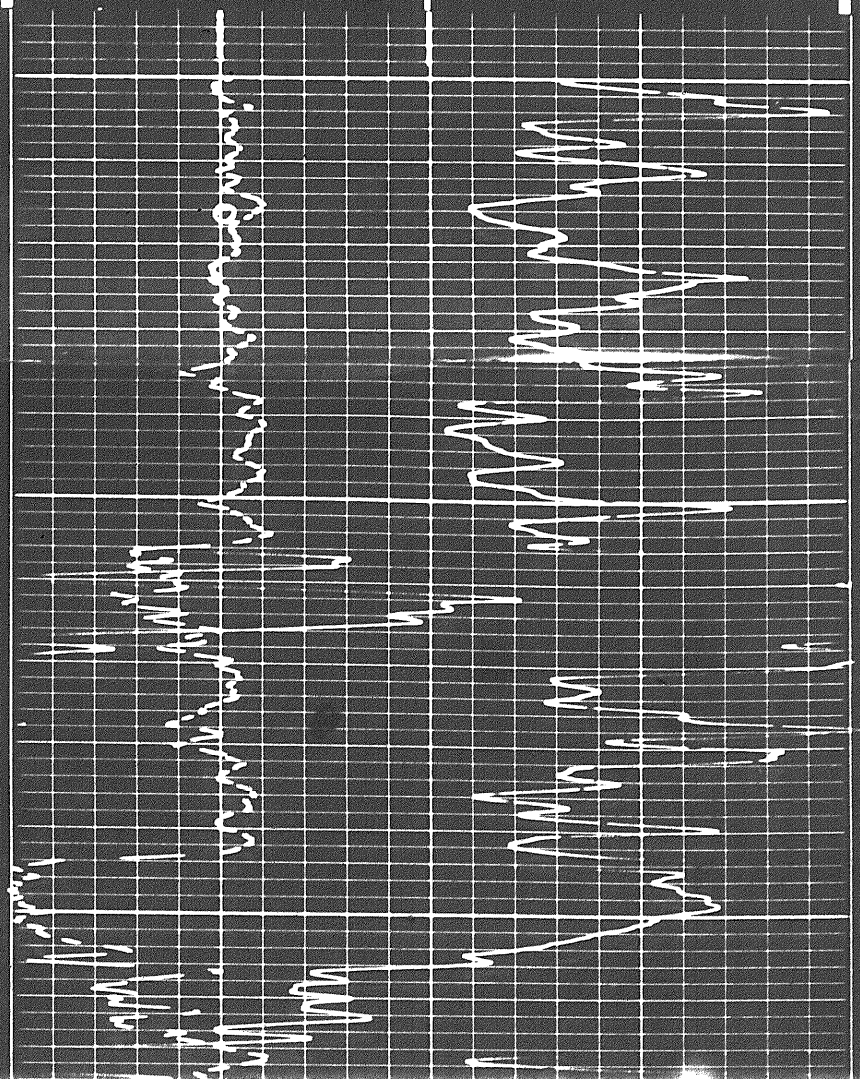
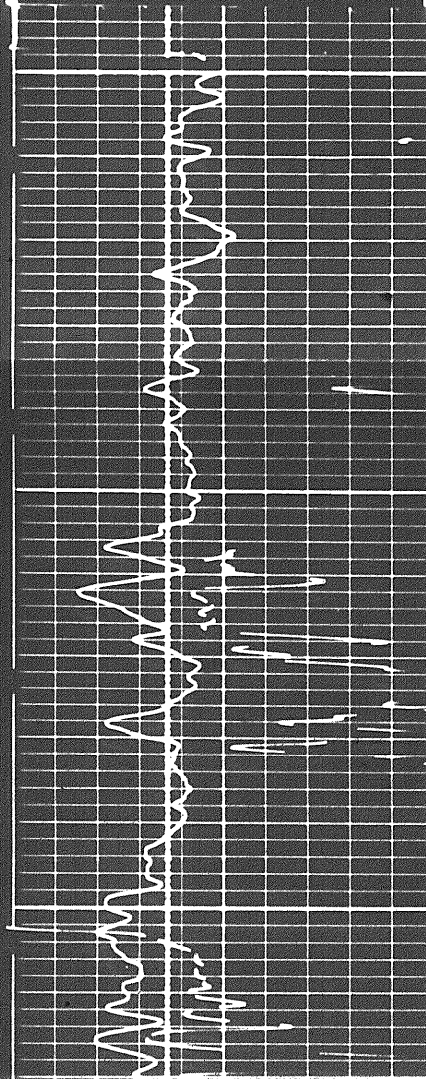
DENSITY CORRECTION
 $\Delta\rho$ - gm/cc

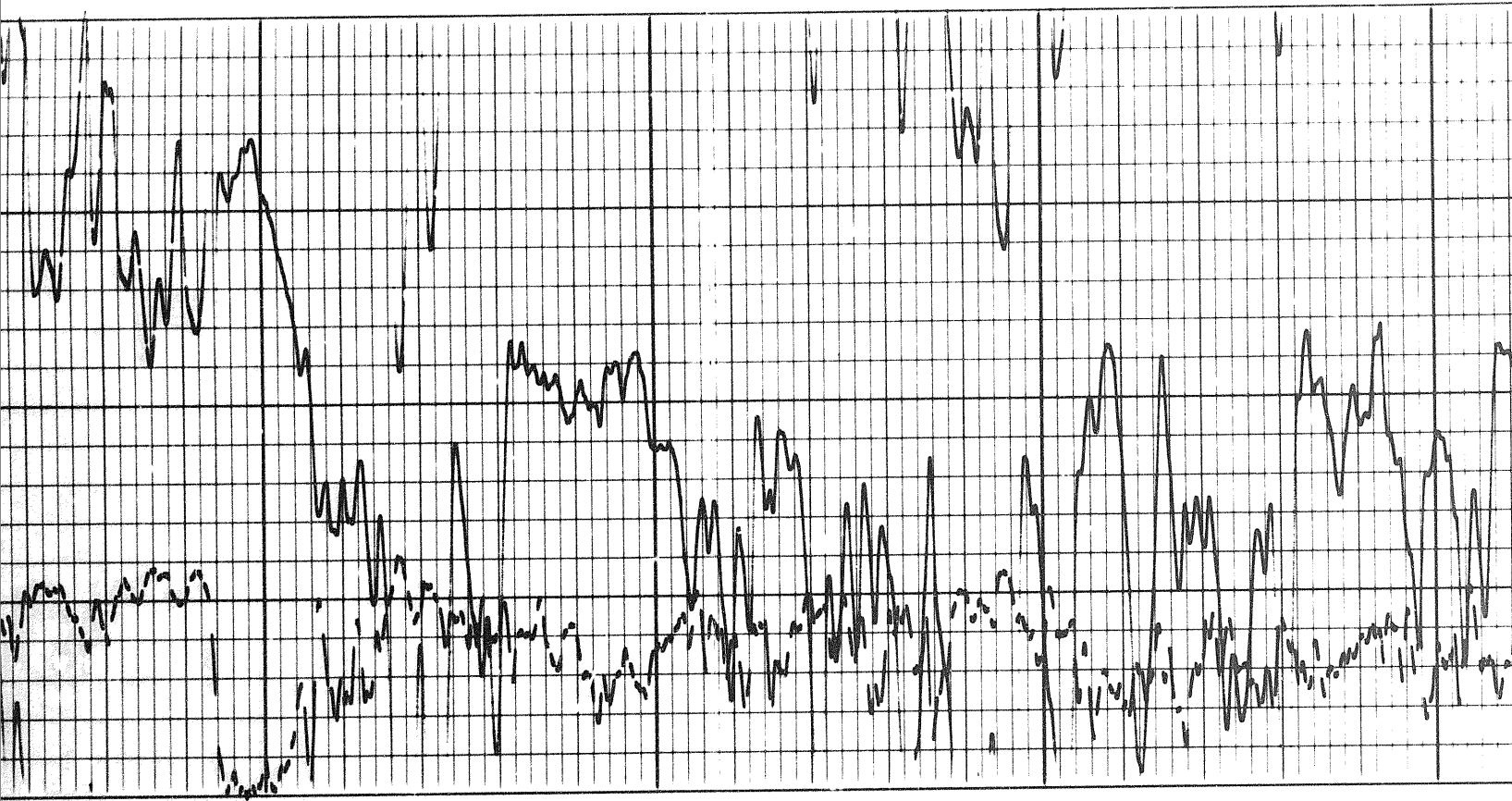
0.25 0 0.25
(+) (-)

2.0 2.5 3.0

4200

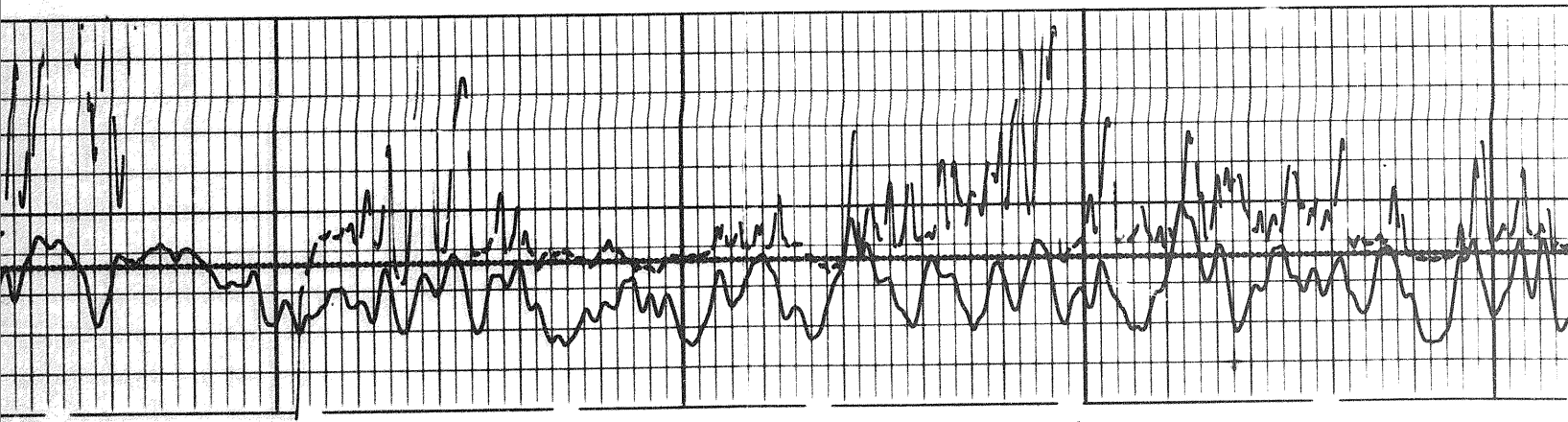
4300

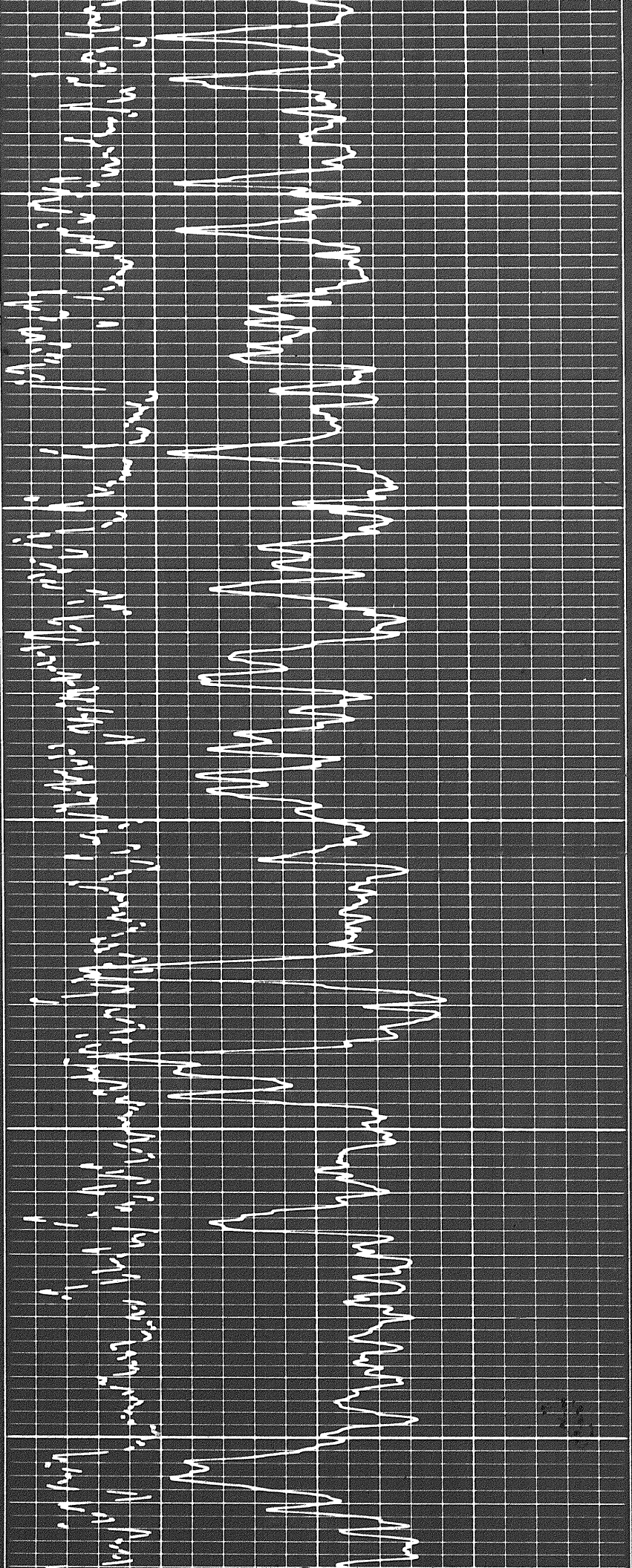




4300

4400

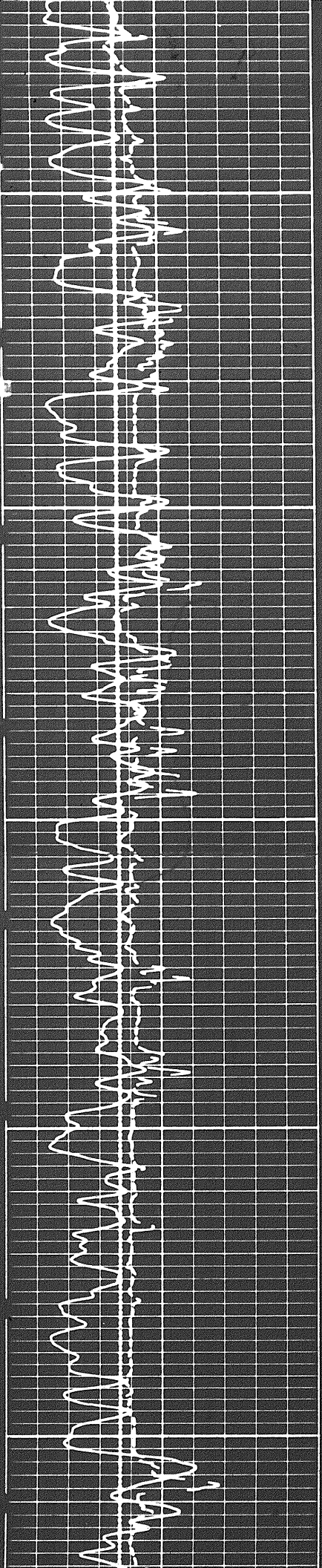




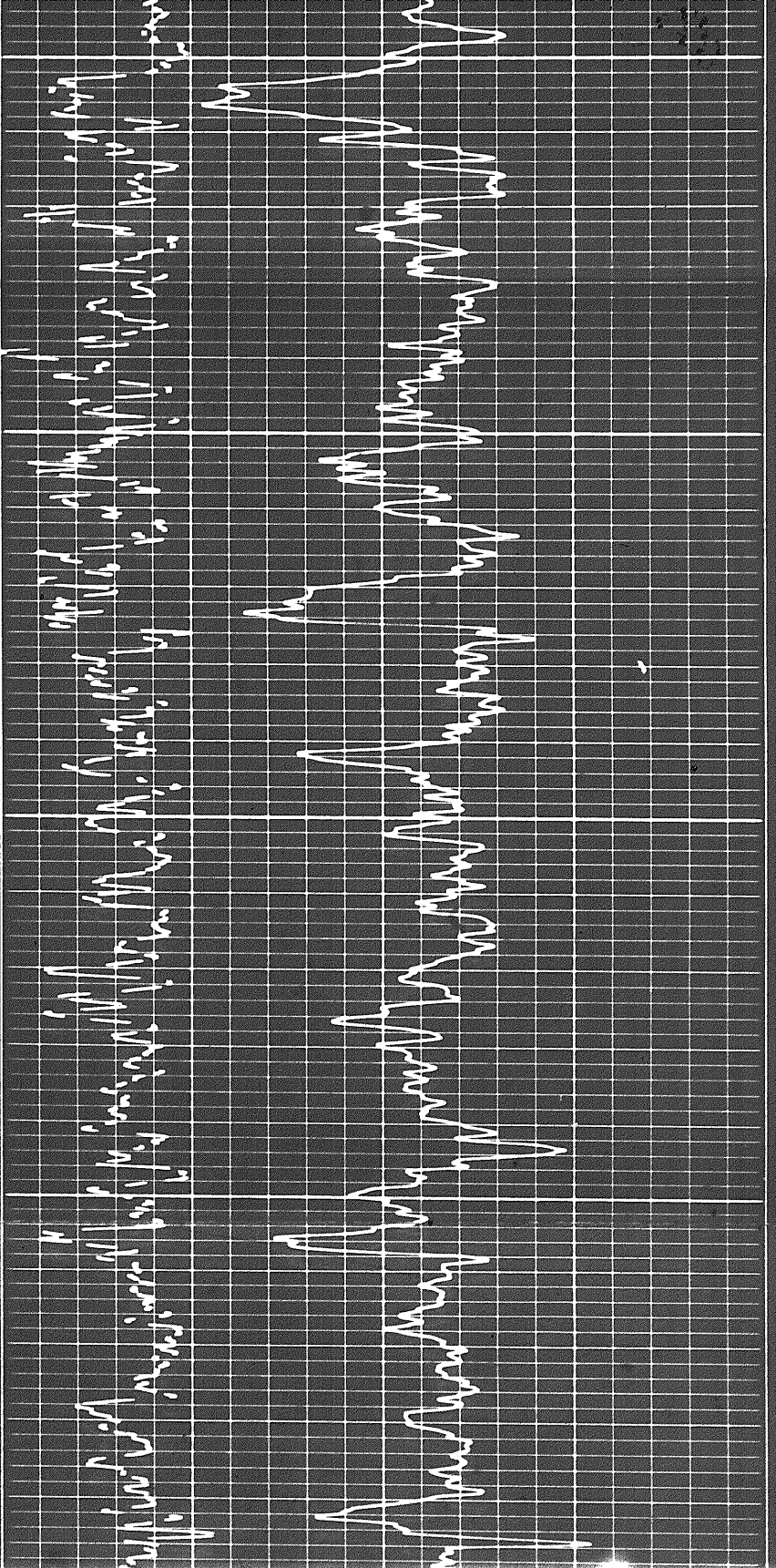
4500

4600

4700

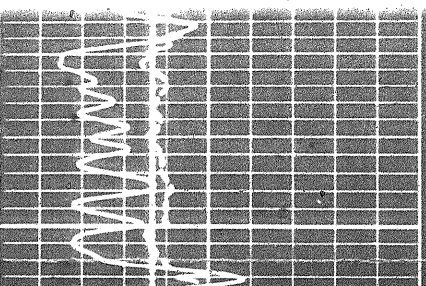
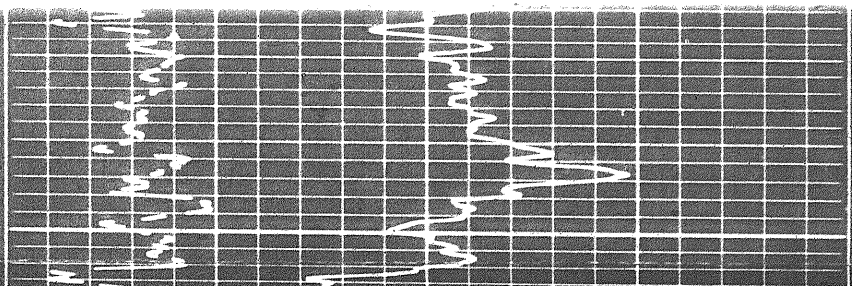
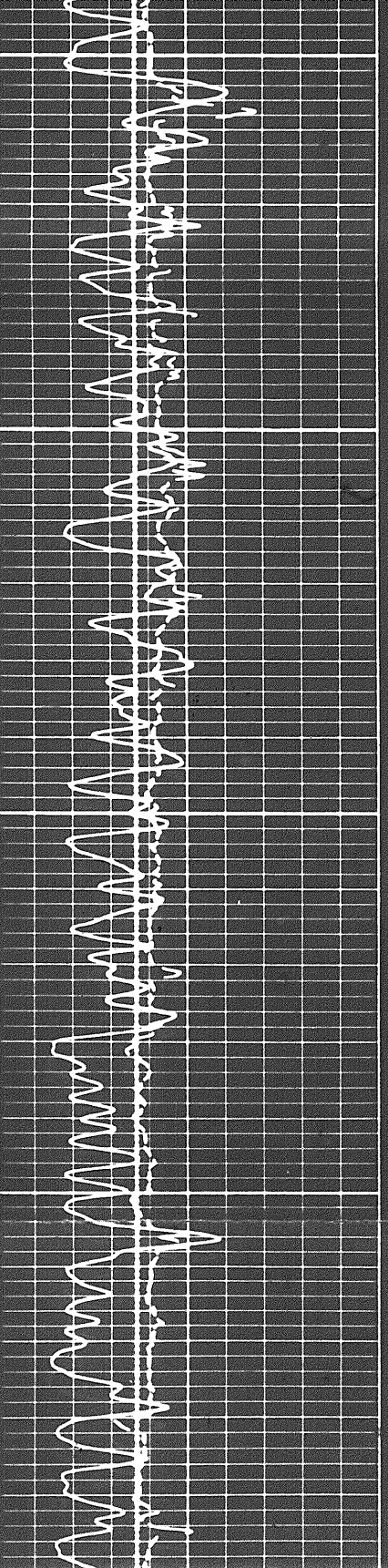


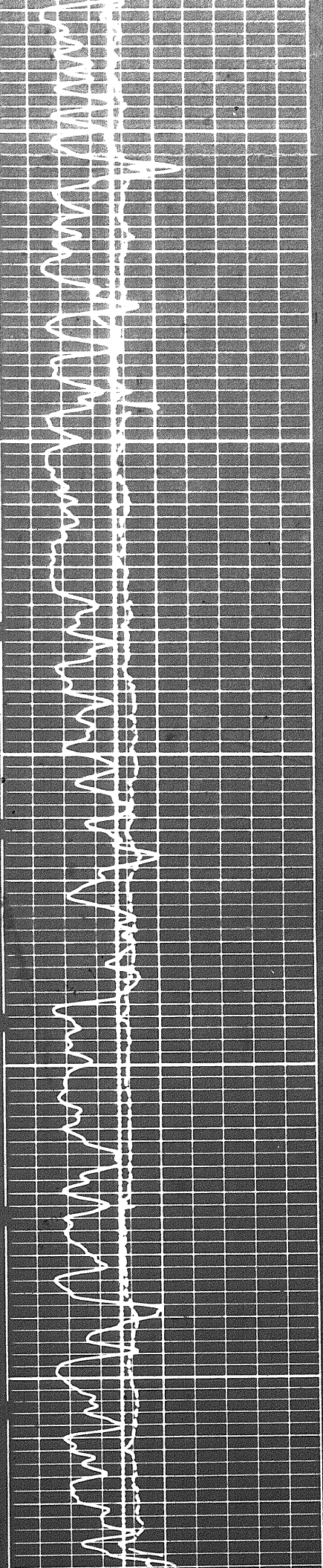
68



4700

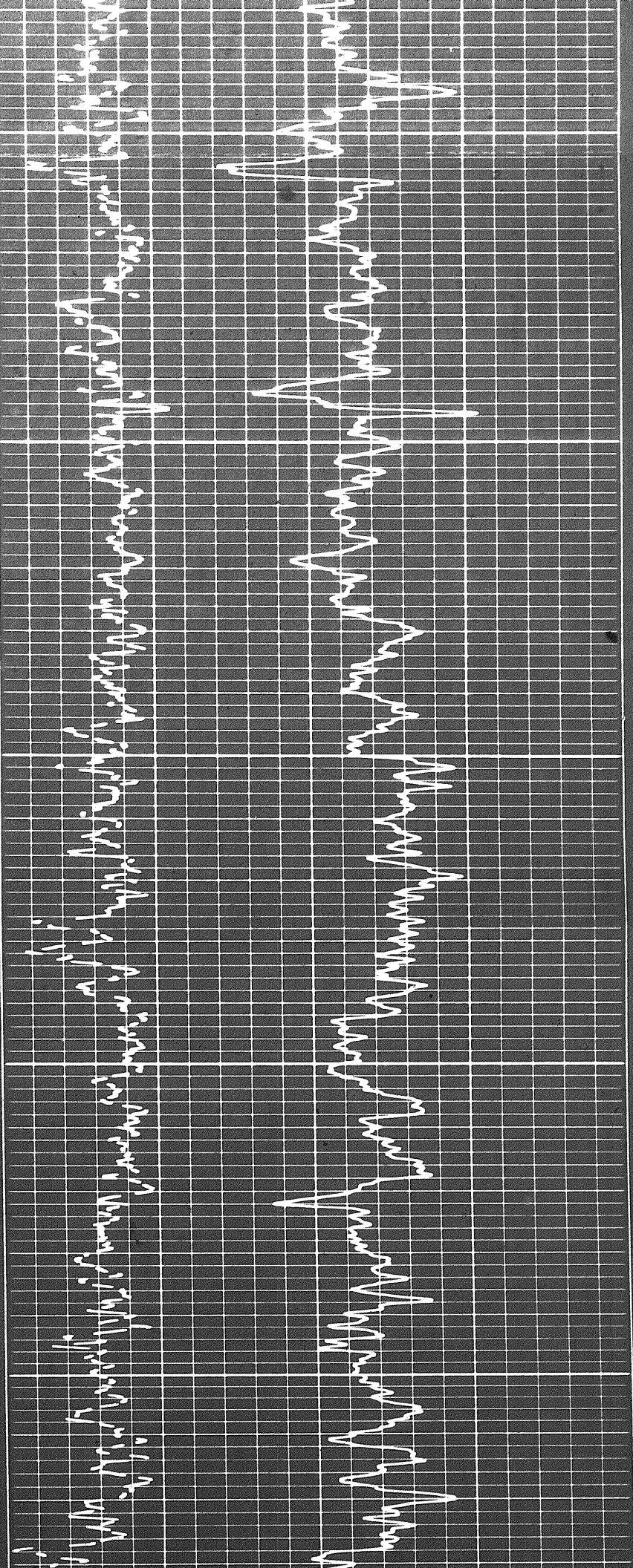
0282



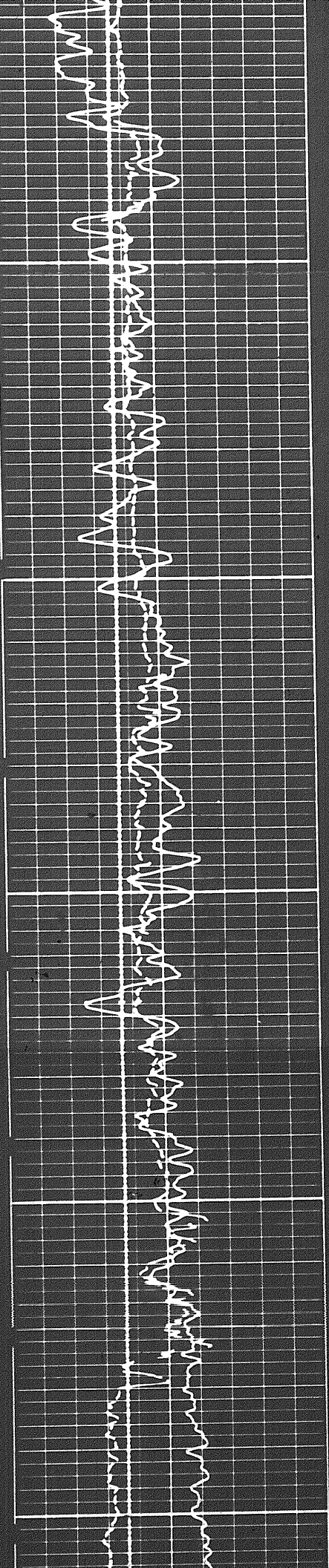


0000

5000



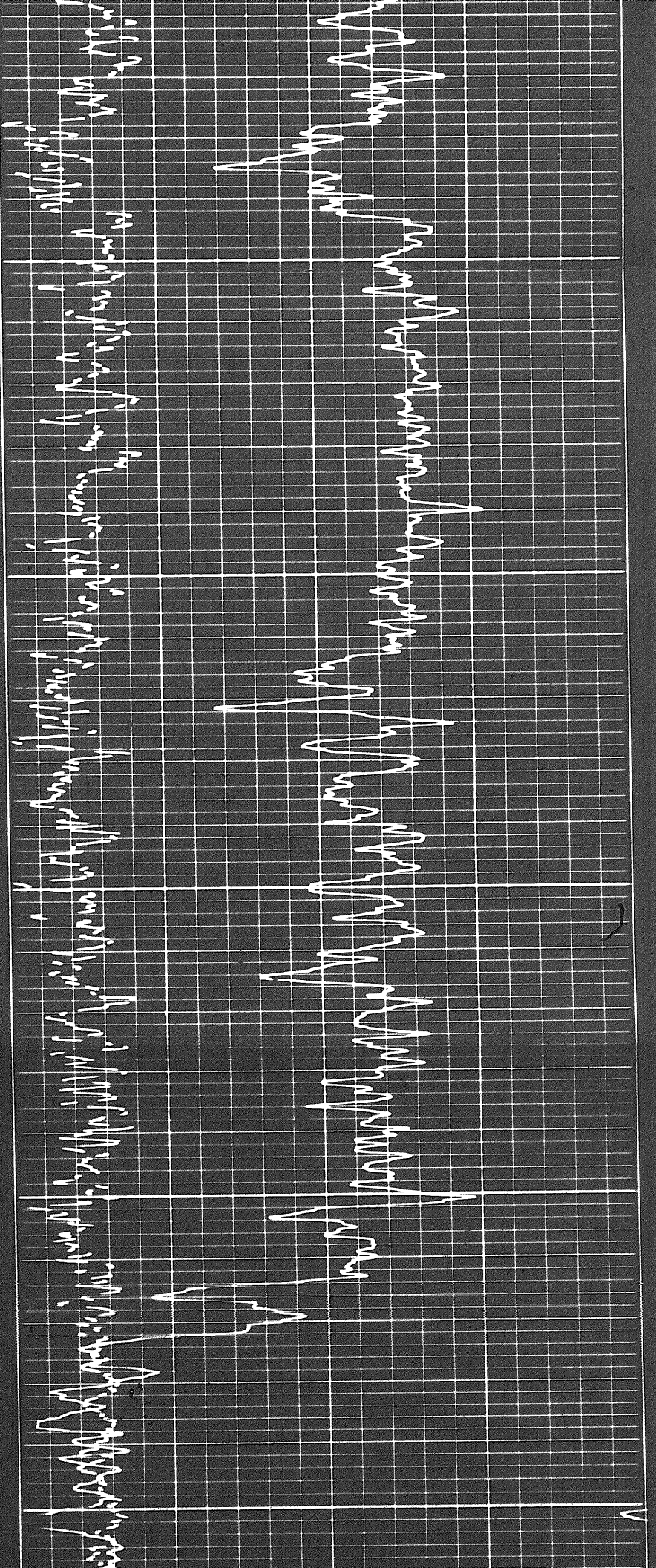
76



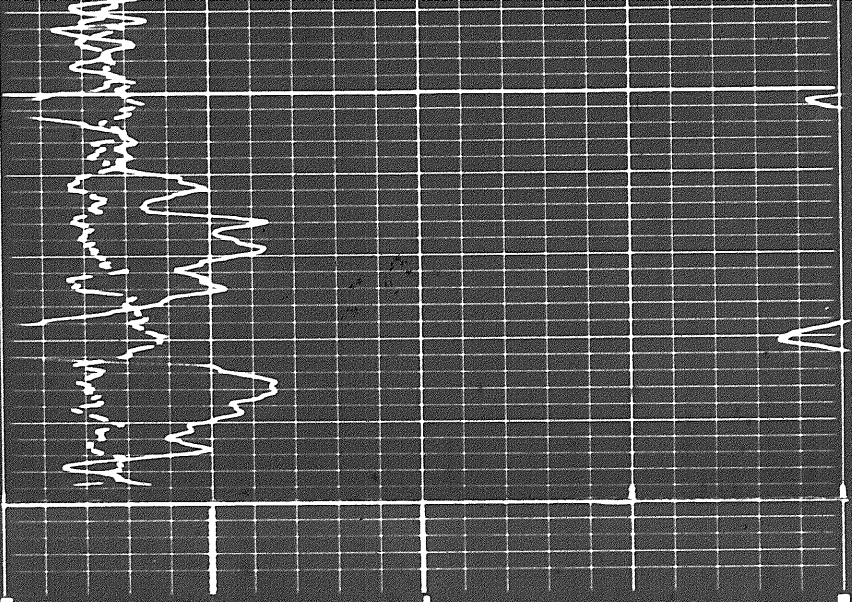
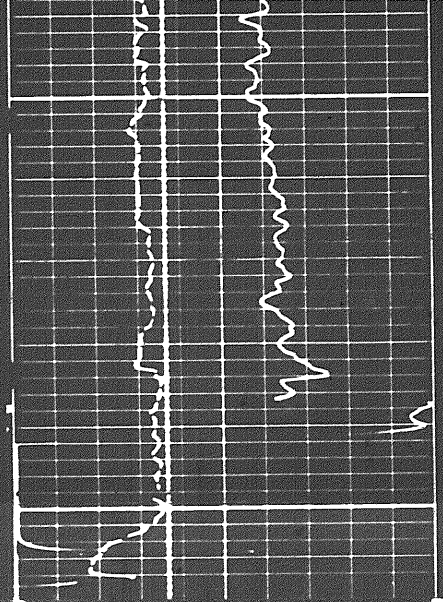
8100

0020

5300



5300



6 7 8 9 10 11 12 13 14

(+) 0.25 0 (-) 0.25

CALIPER
hole diameter in inches

DENSITY CORRECTION
 $\Delta\rho - \text{gm/cc}$

Speed in FPM

Sens. 150 T.C. 2
Zero 0 div. to left
0 150
150 300

2.0 2.5 3.0

GAMMA RAY
API UNITS

DEPTHS

BULK DENSITY
 $\rho_b - \text{gm/cc}$

DETAIL LOG
5' = 100' RUN 2

GAMMA RAY
API UNITS

DEPTHS

BULK DENSITY
 $\rho_b - \text{gm/cc}$

Speed in FPM

Sens. 100 T.C. 2
Zero 0 div. to left
0 100
100 200

2.0 2.5 3.0

GAMMA RAY
API UNITS

DEPTHS

BULK DENSITY
 $\rho_b - \text{gm/cc}$

DETAIL LOG
5' = 100' RUN 2

Speed in FPM

Sens. 150 T.C. 2
Zero 0 div. to left
0 150
150 300

2.0 2.5 3.0

GAMMA RAY
API UNITS

DEPTH

BULK DENSITY
 ρ_b - gm/cc

DETAIL LOG
5" = 100'

RUN 2

GAMMA RAY
API UNITS

DEPTH

BULK DENSITY
 ρ_b - gm/cc

Scale 100 T.C. 2
Zero 0 div. to left

0 100
100 200

2.0

2.5

3.0

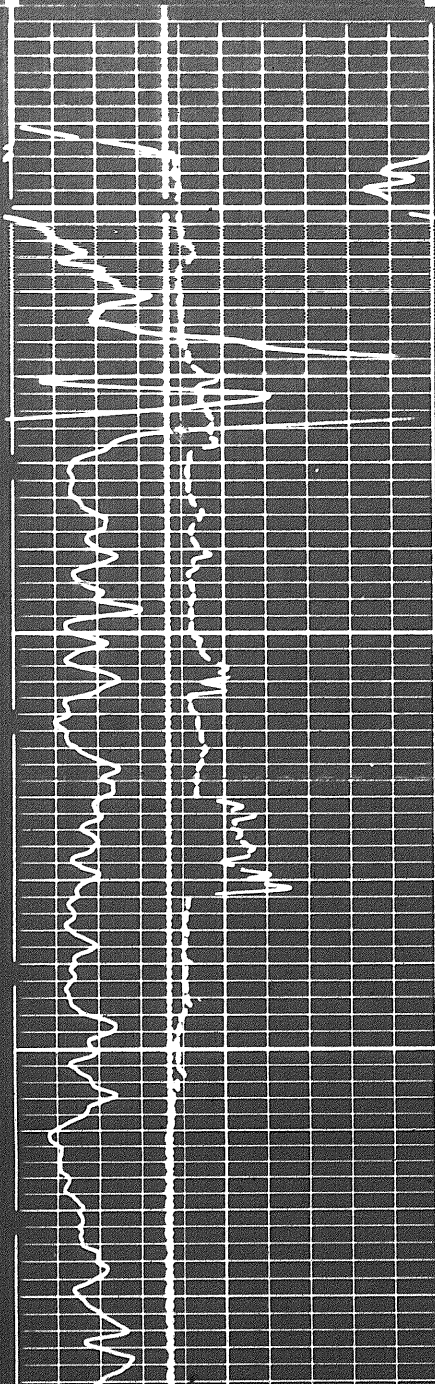
CALIPER
hole diameter in inches

6 7 8 9 10 11 12 13 14

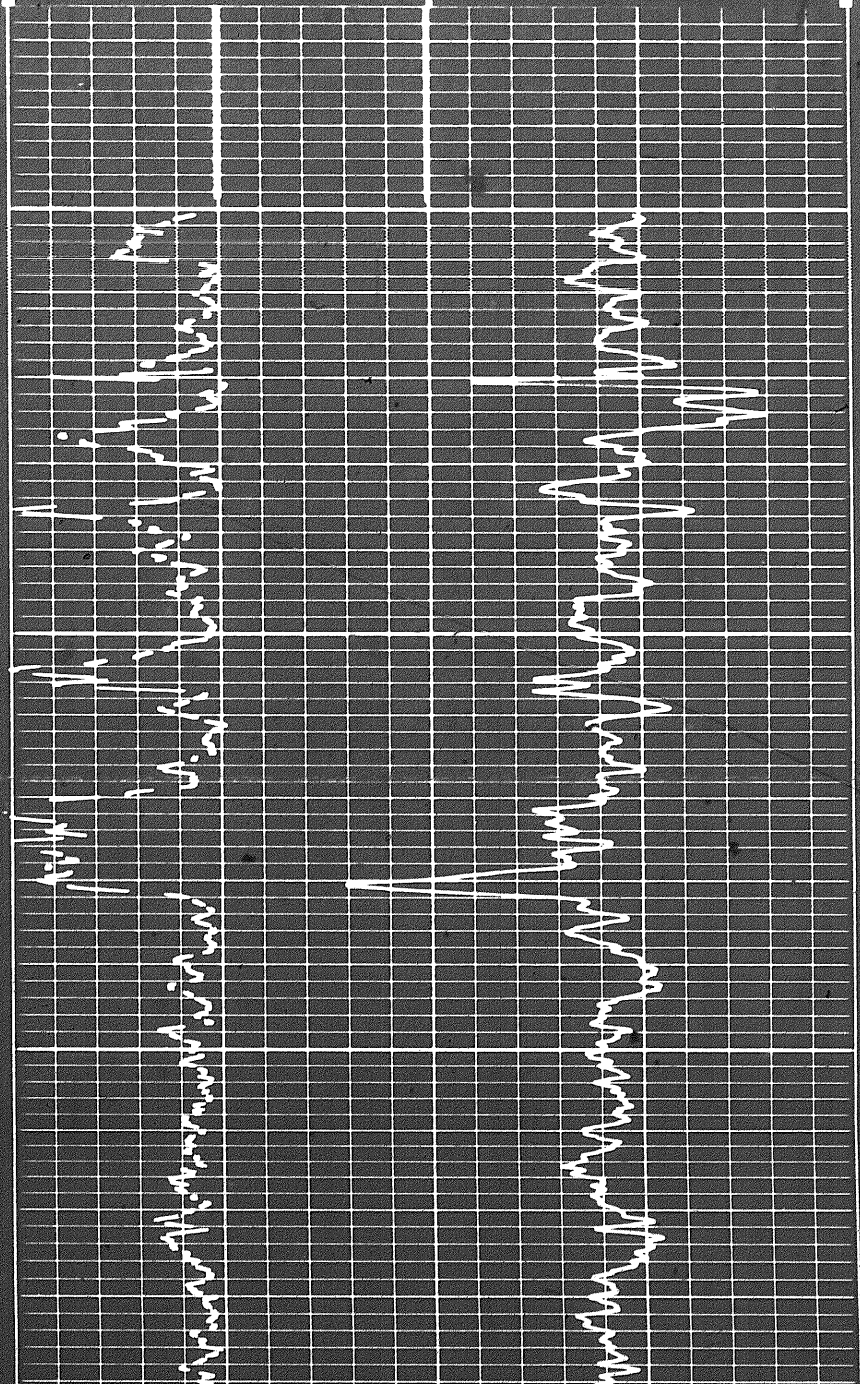
DENSITY CORRECTION
 $\Delta\rho$ - gm/cc

0.25 (+) 0 0.25 (-)

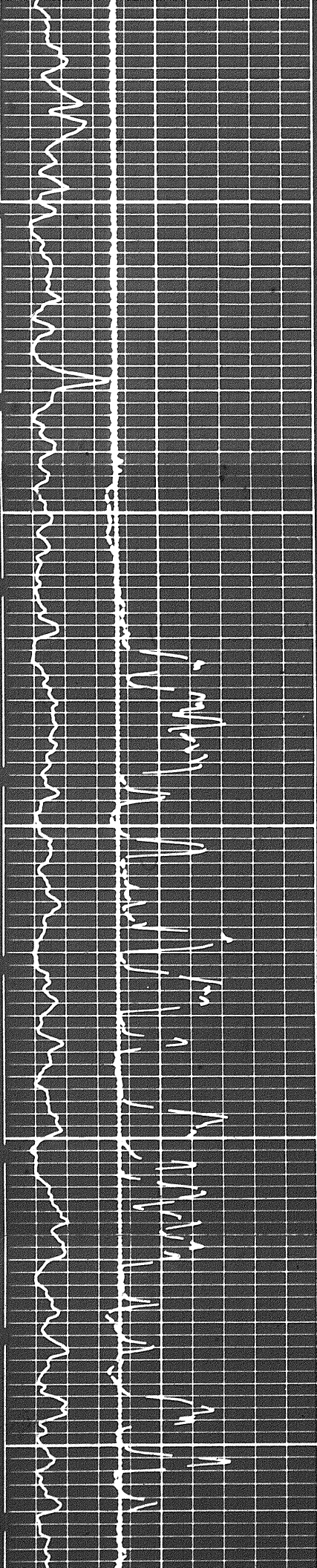
Scale in FPM



1500



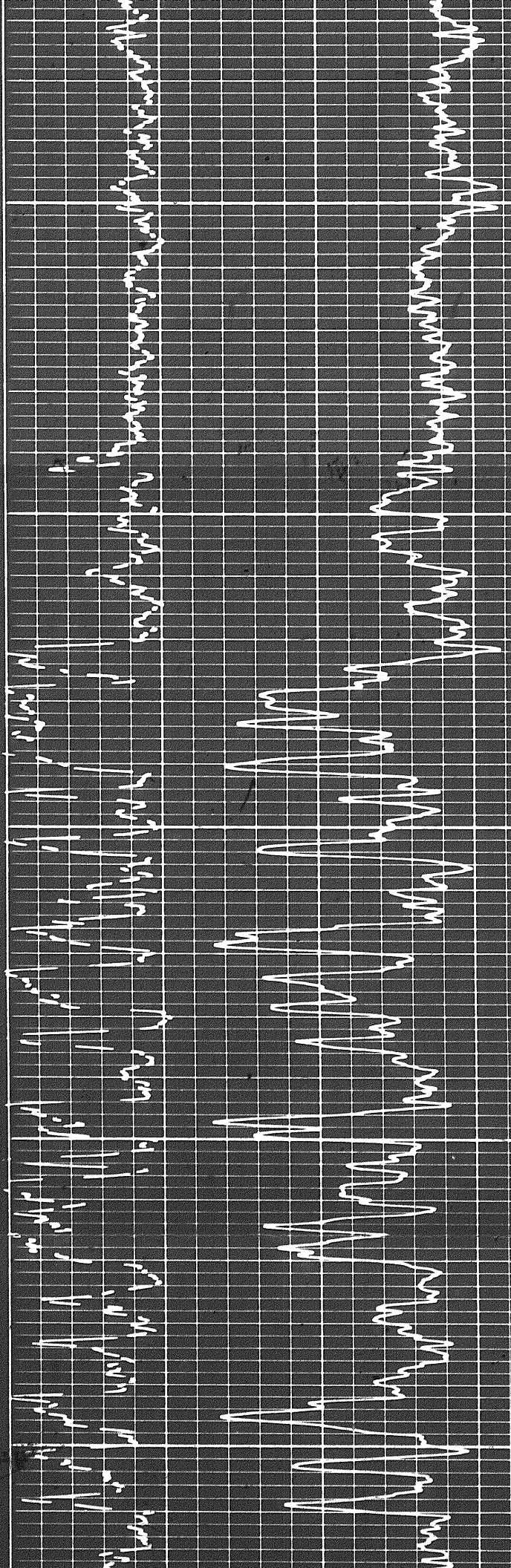
20

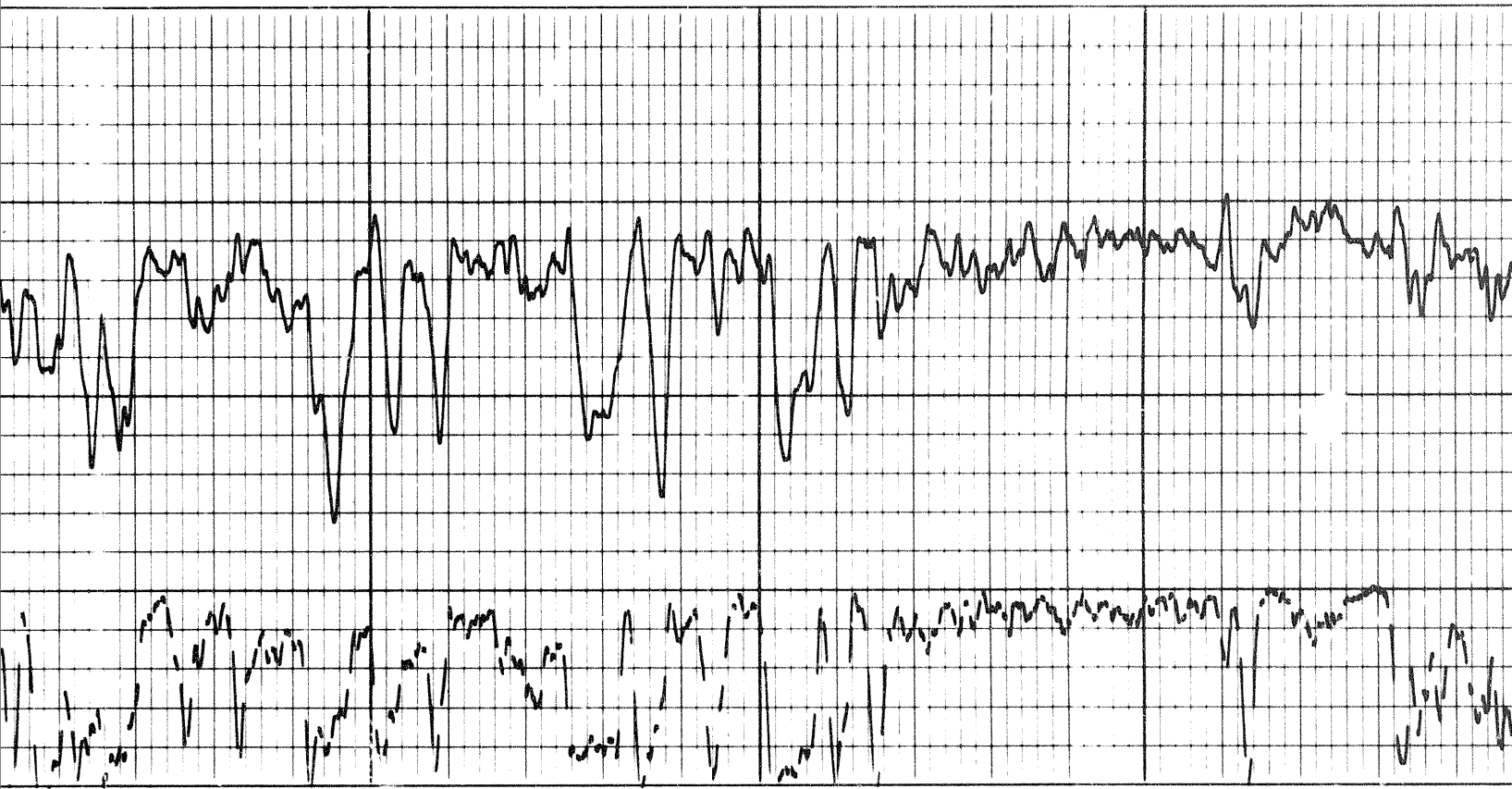


7500

7700

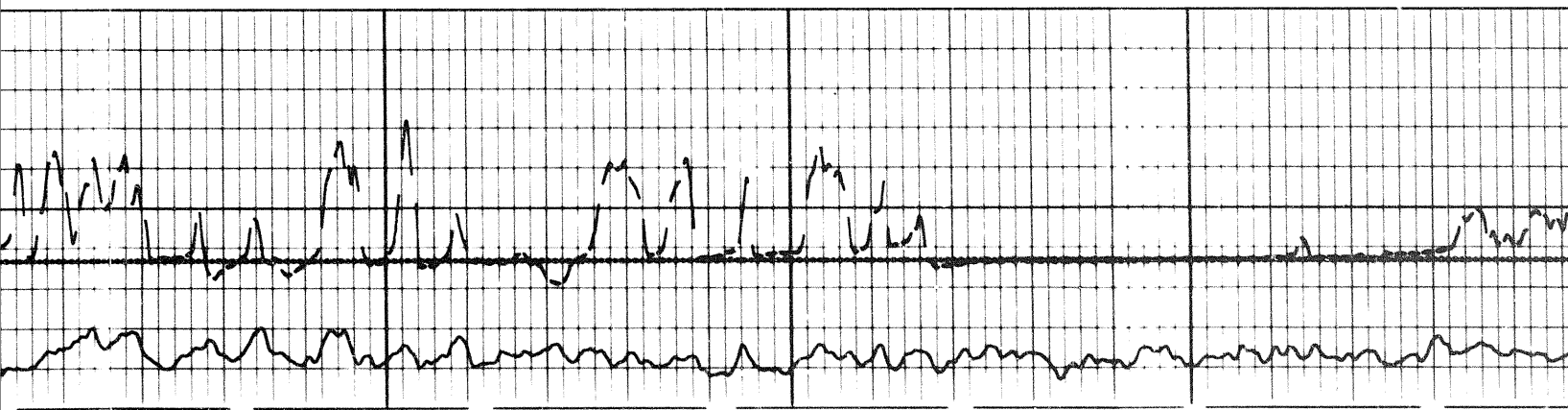
7800

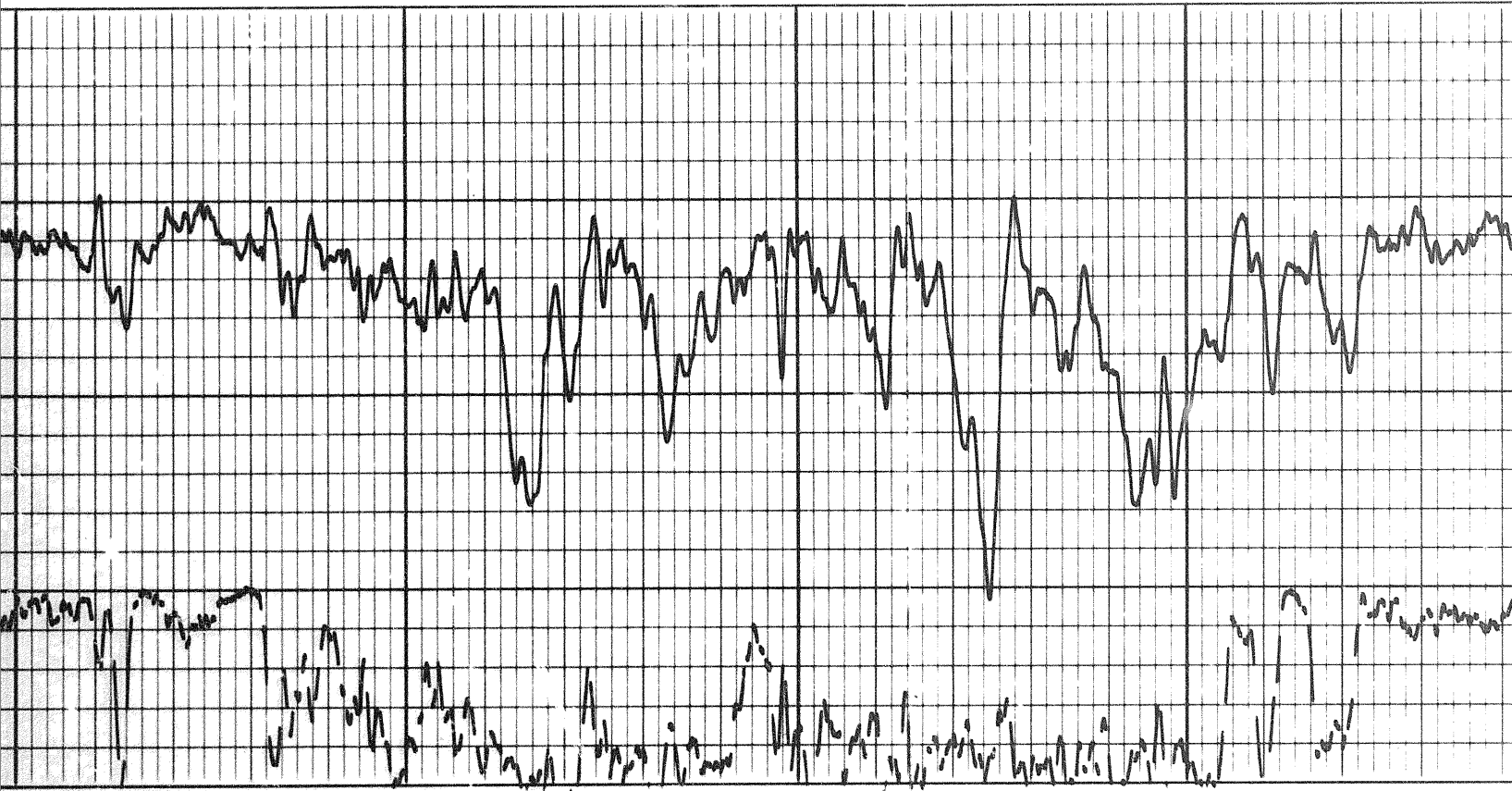




7800

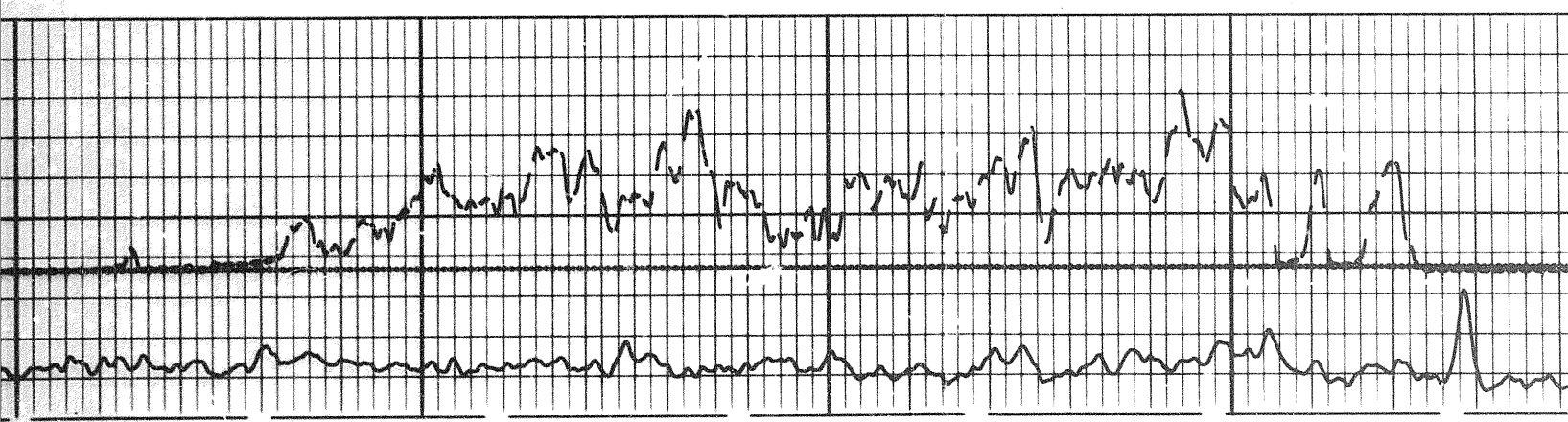
7900

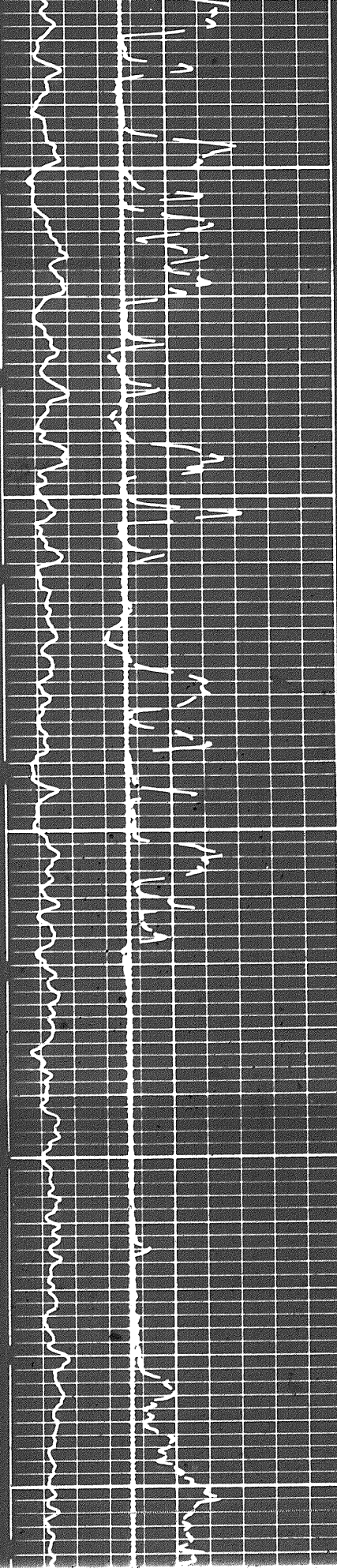




7900

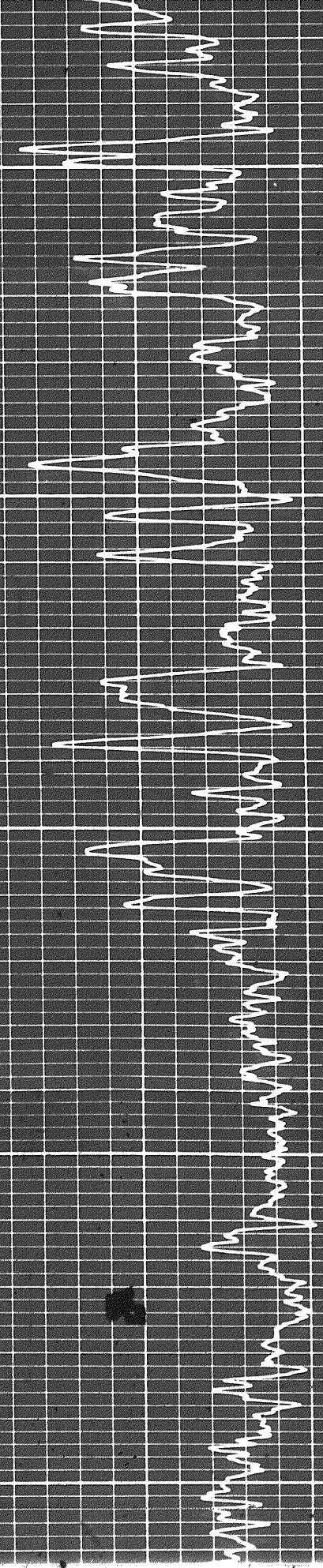
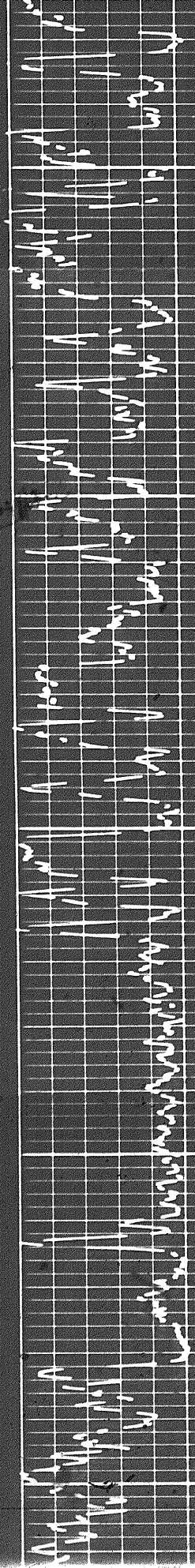
8000

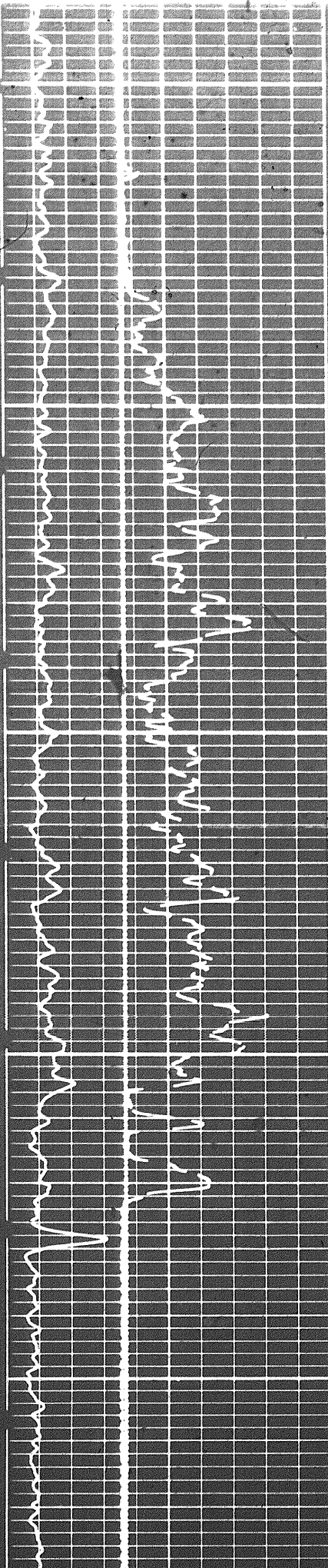




7500

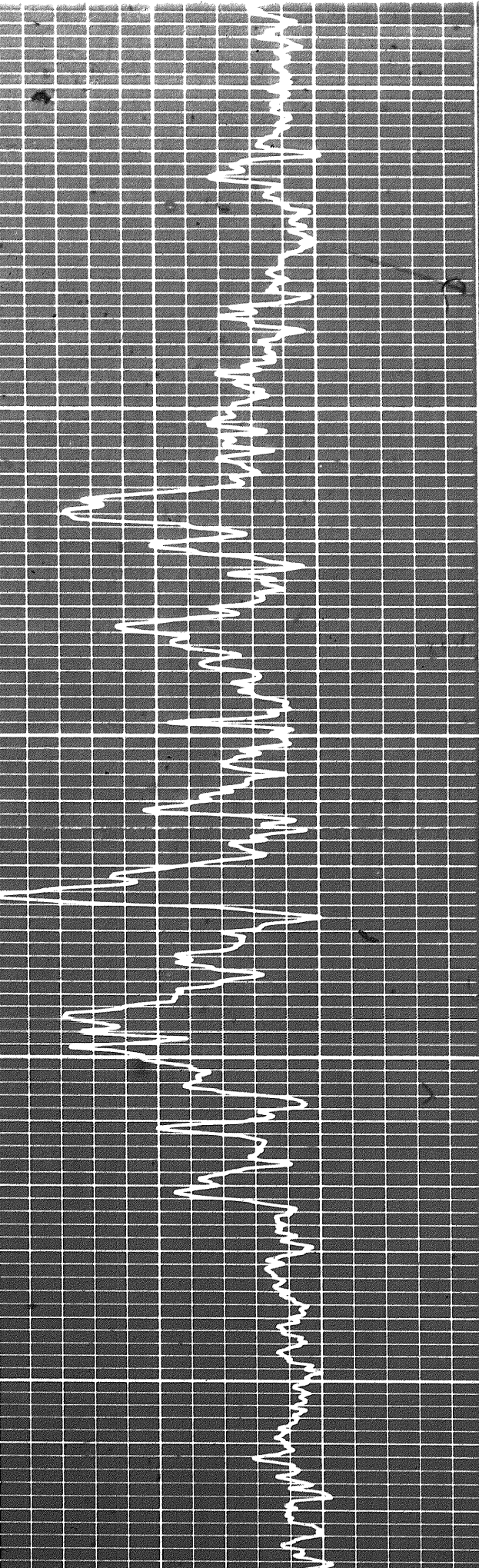
7500

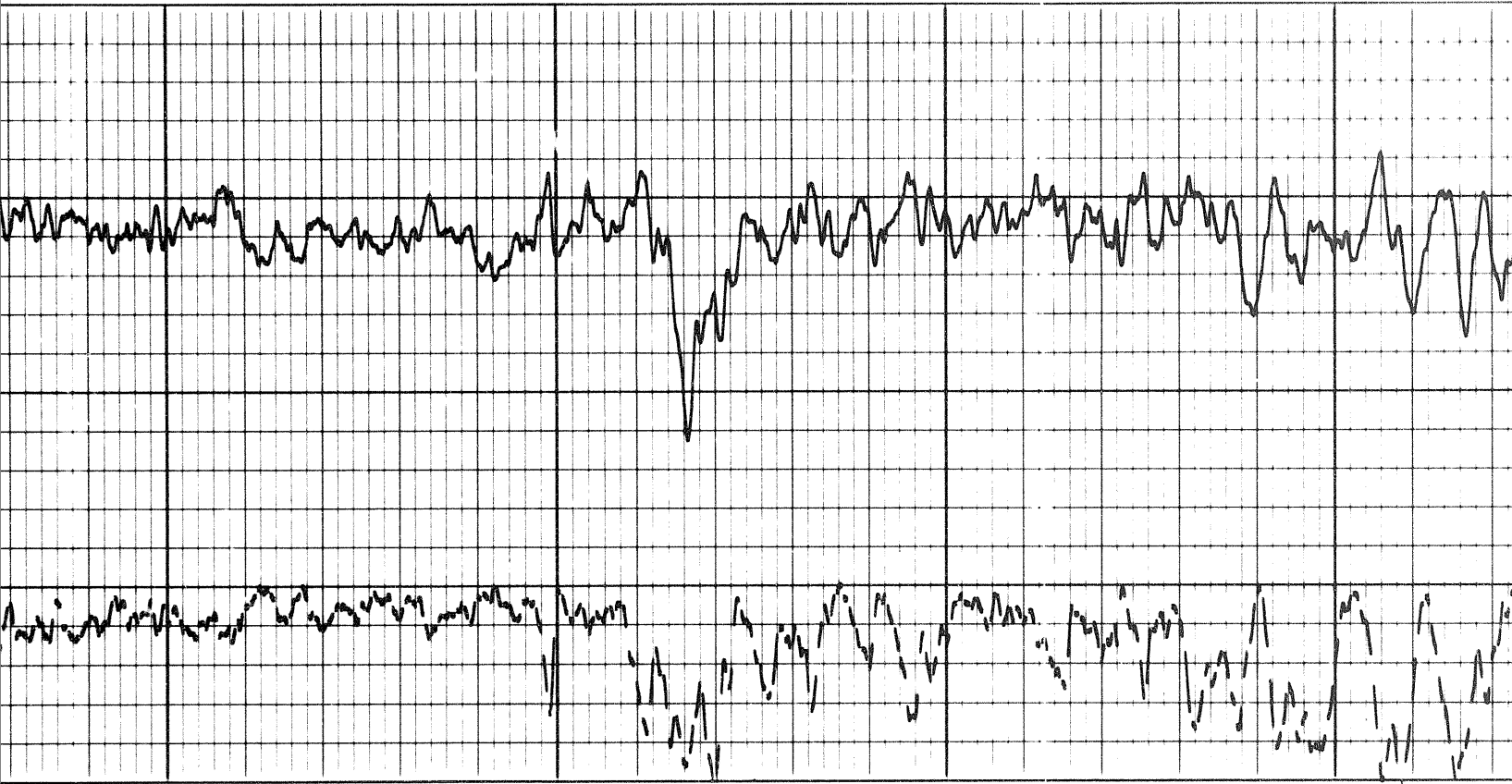




P
0000
0000

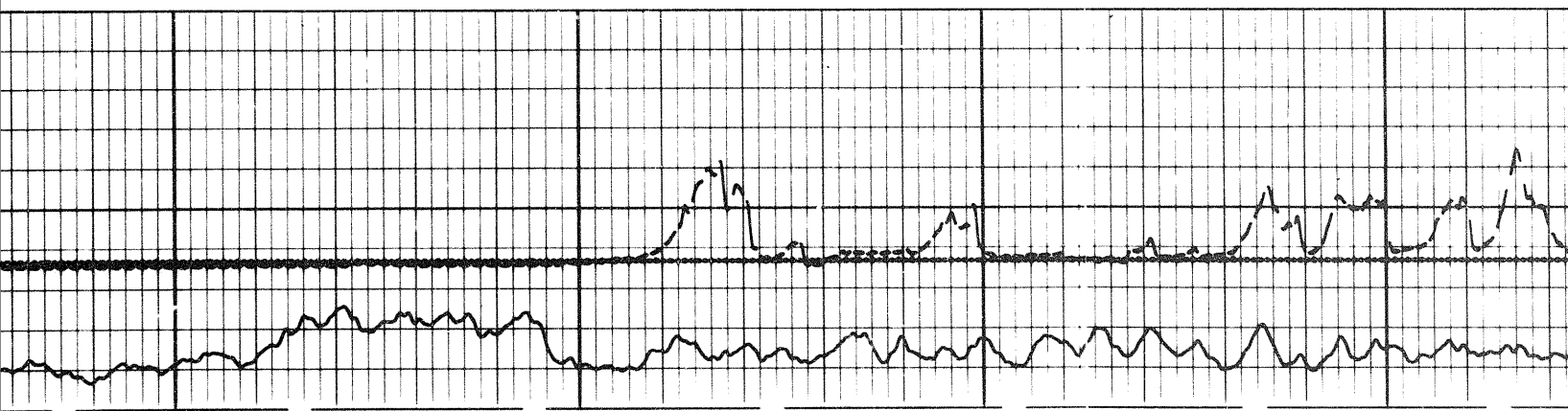
ECG tracing on grid paper showing a regular rhythm with narrow QRS complexes. The rhythm is sinus, with a rate of approximately 75 bpm. The P waves are upright and followed by narrow QRS complexes. The ST segment is slightly elevated, and the T waves are upright.



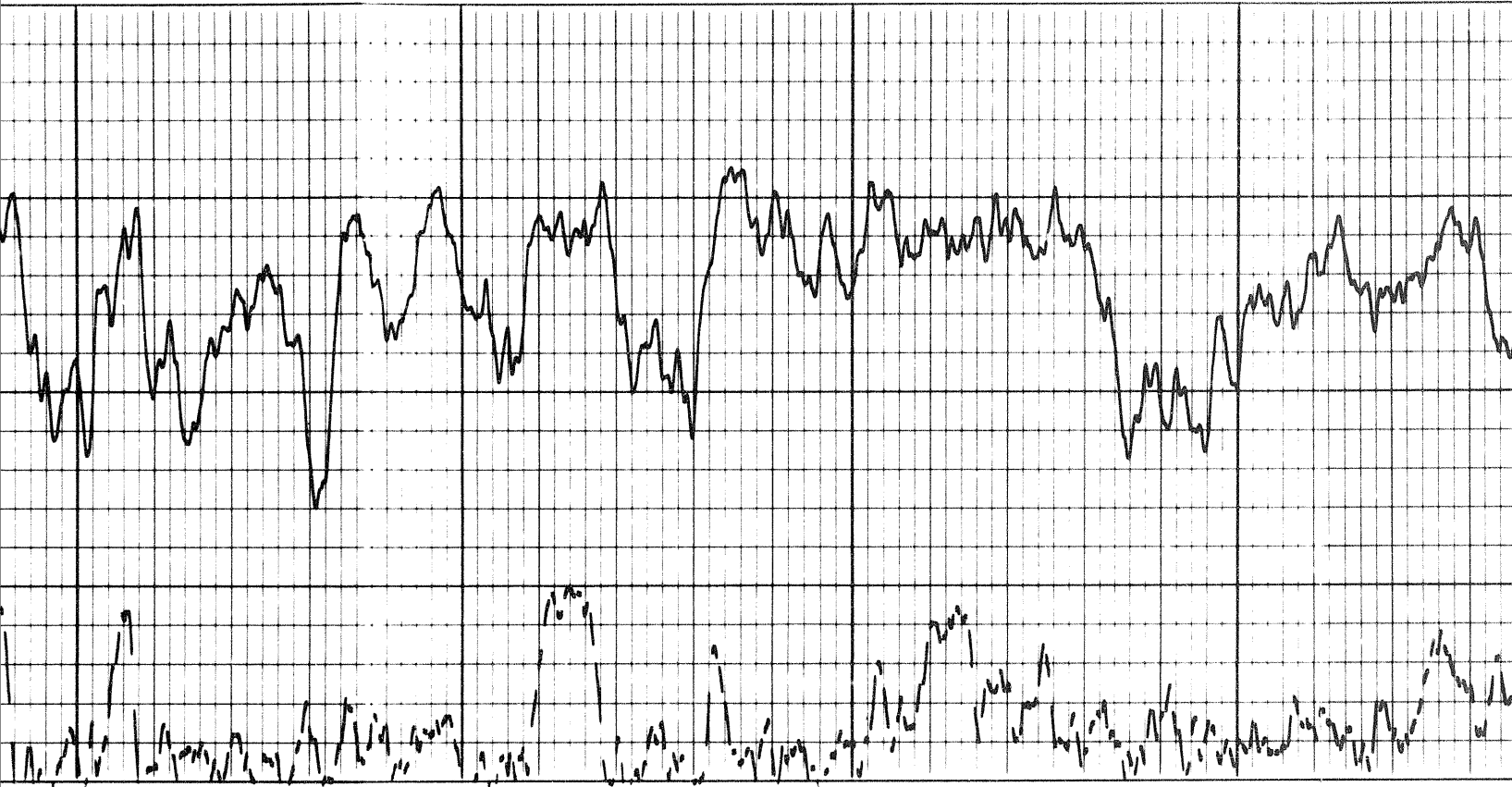


8200

8300

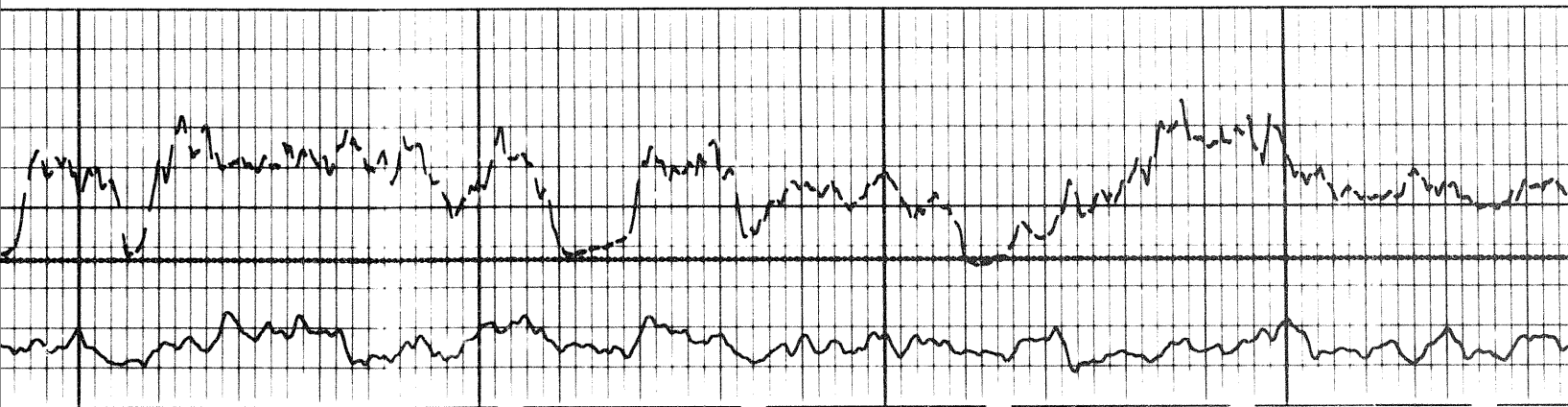


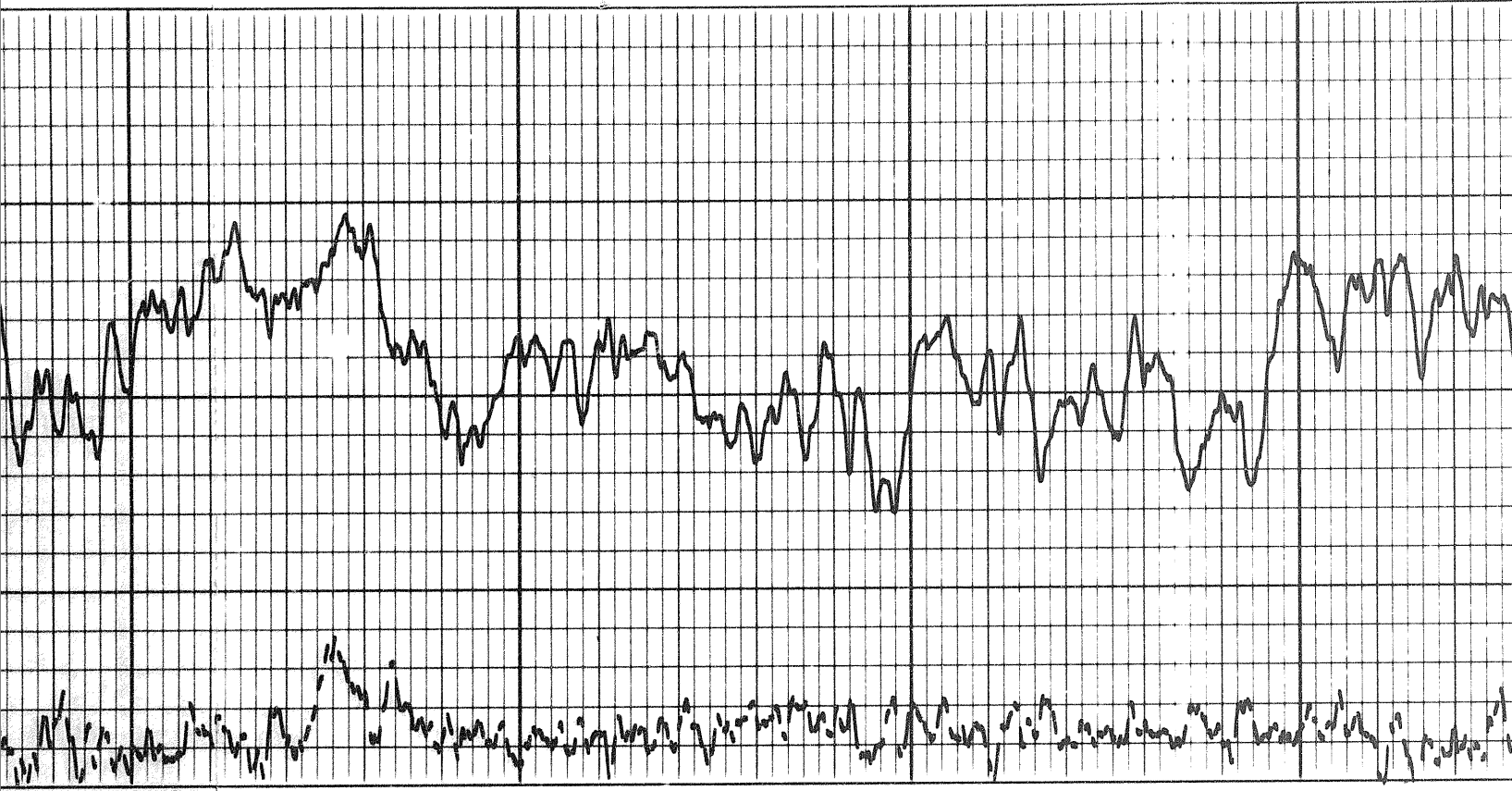
9 of



8400

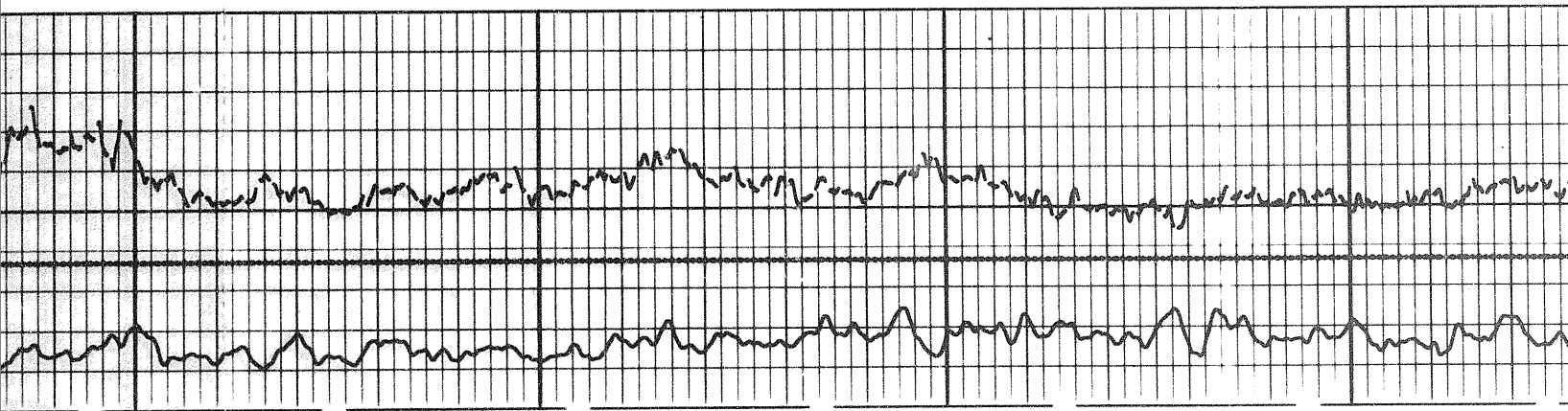
8500

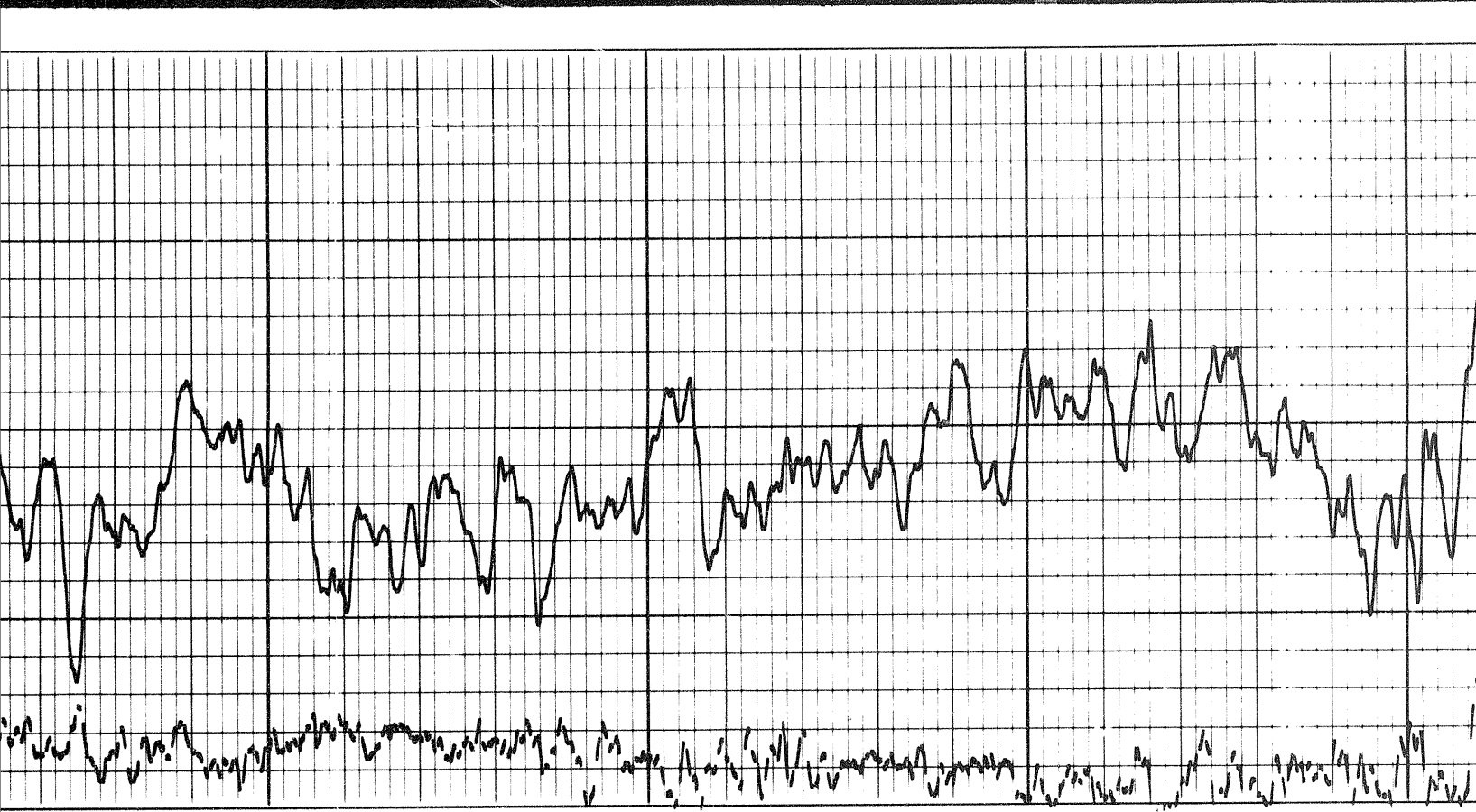




8500

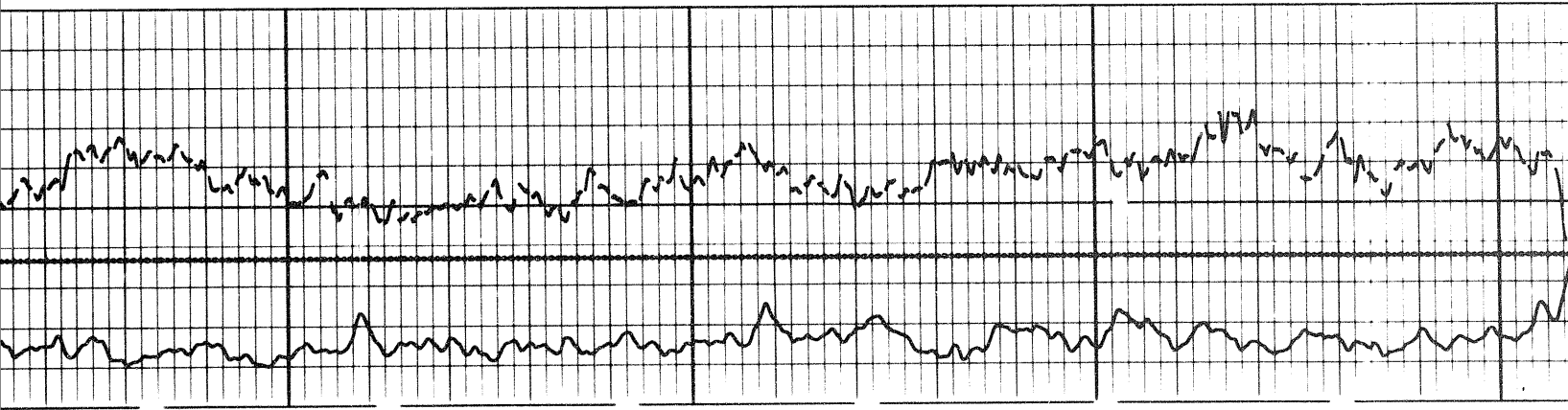
8600



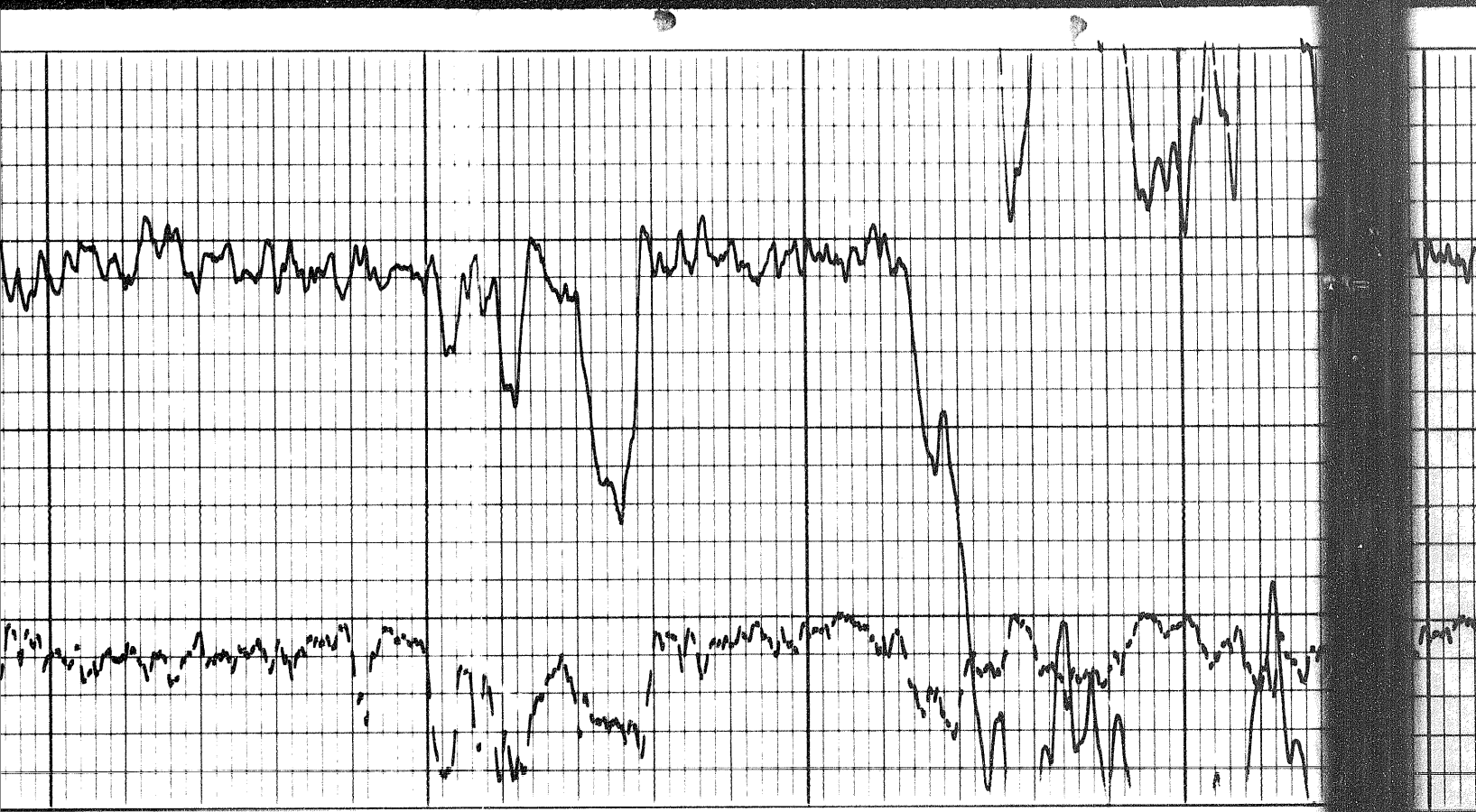


8800

8900

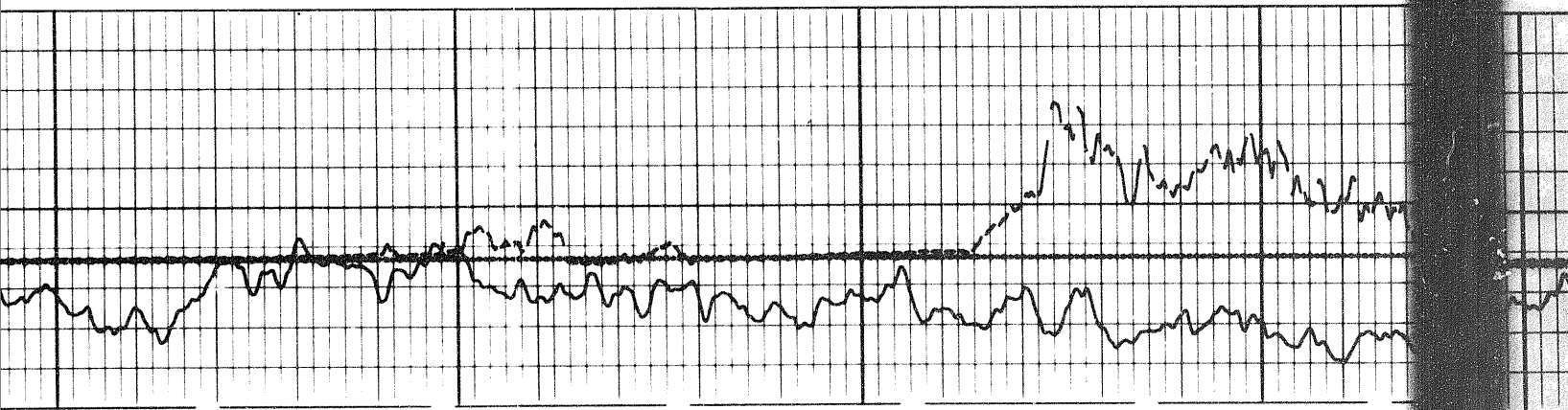


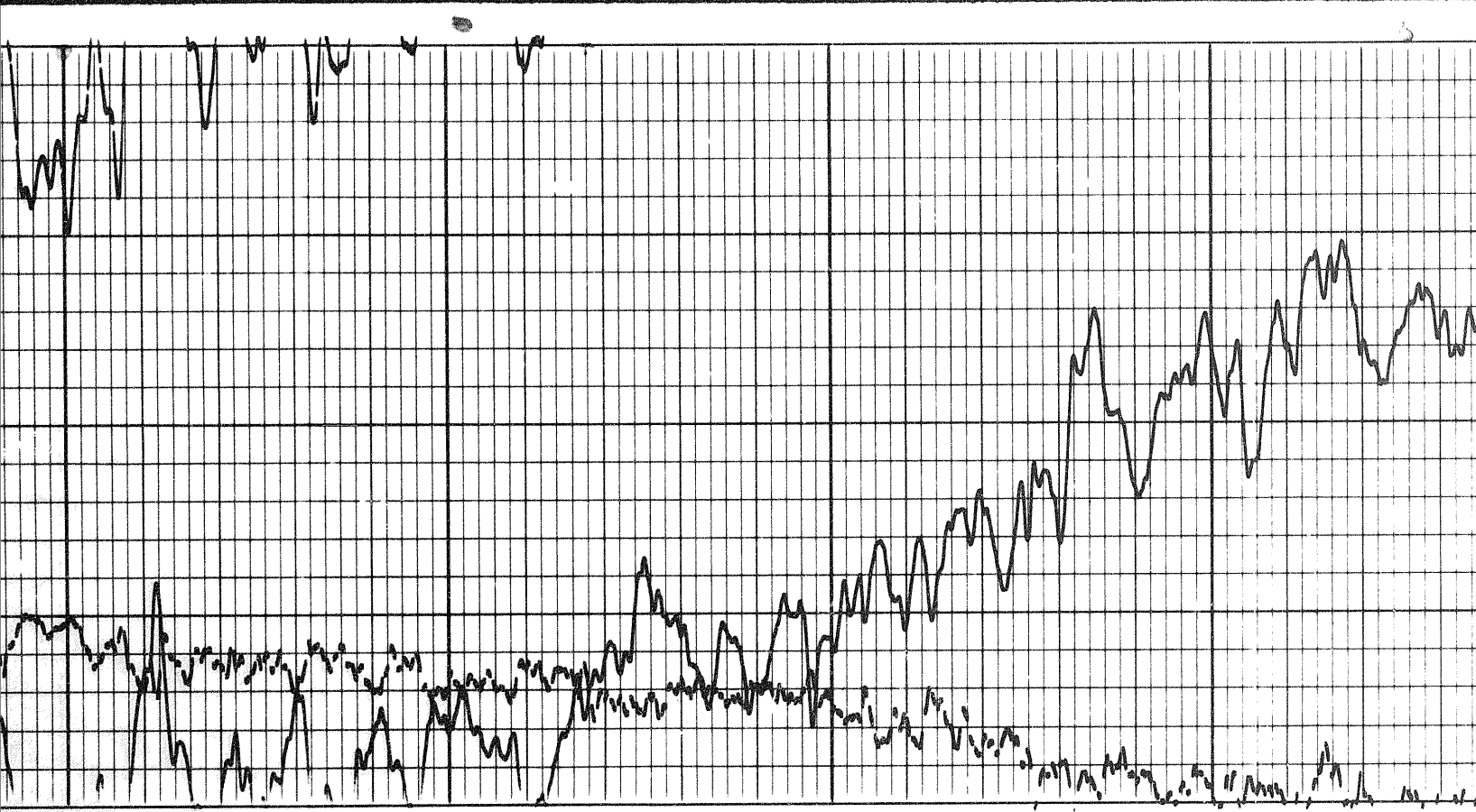
10 7



9000

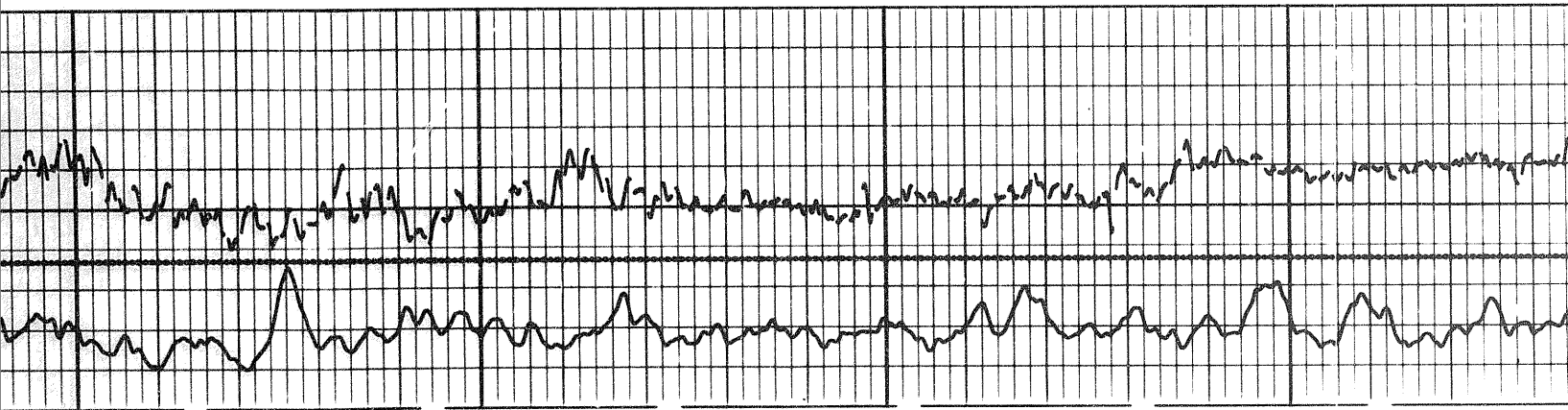
9100

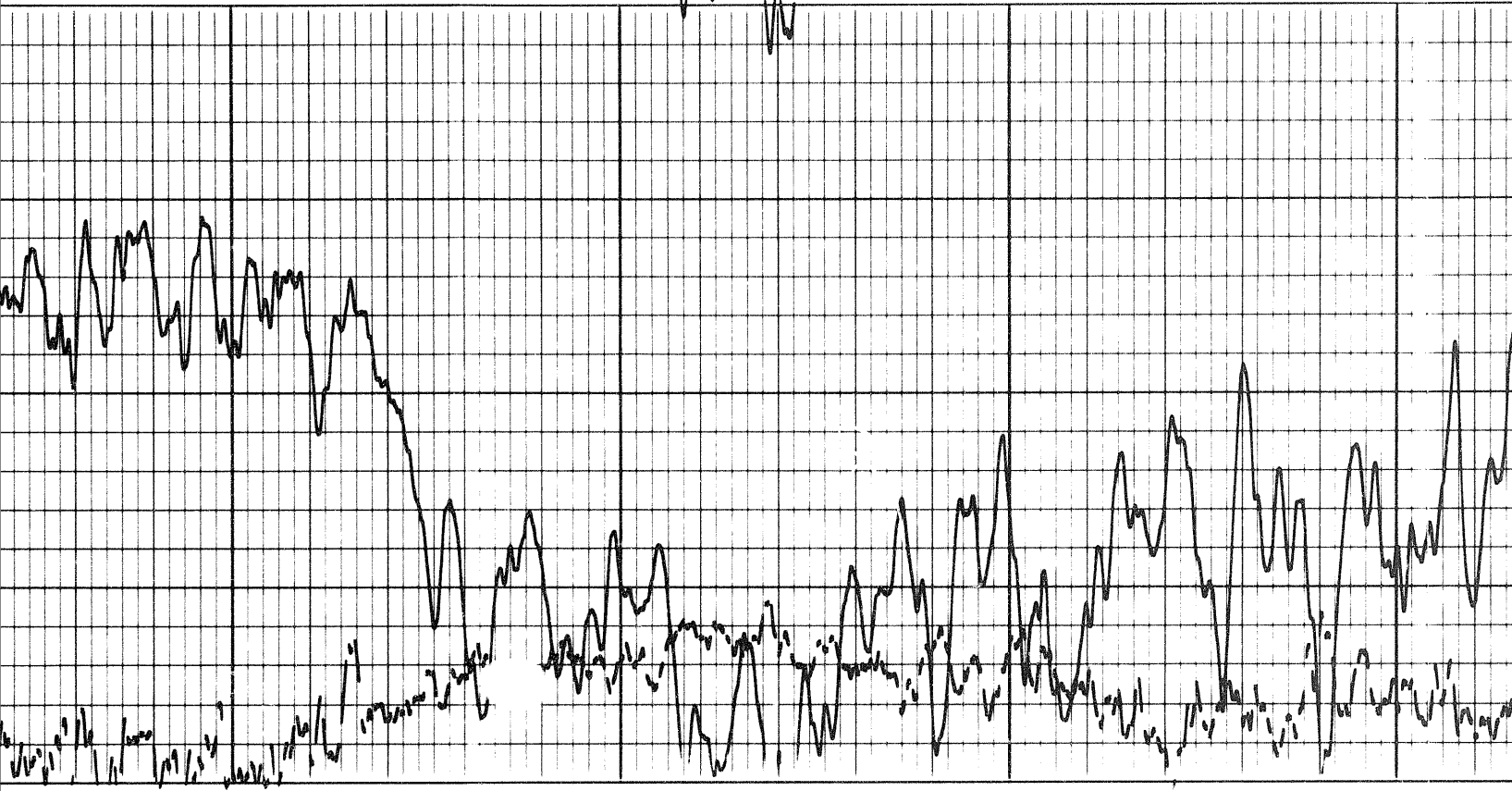




9100

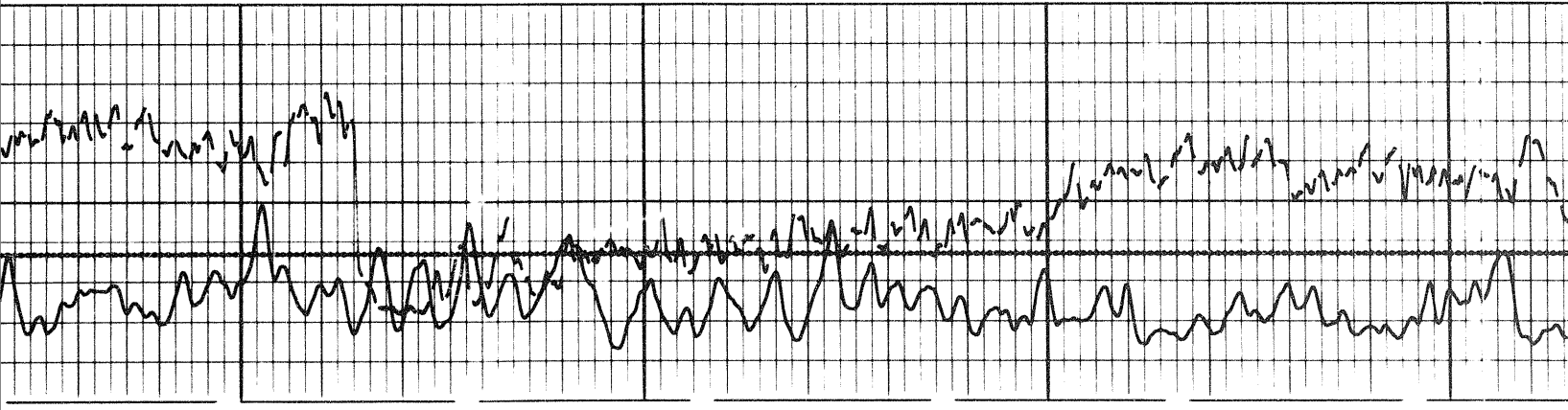
9200



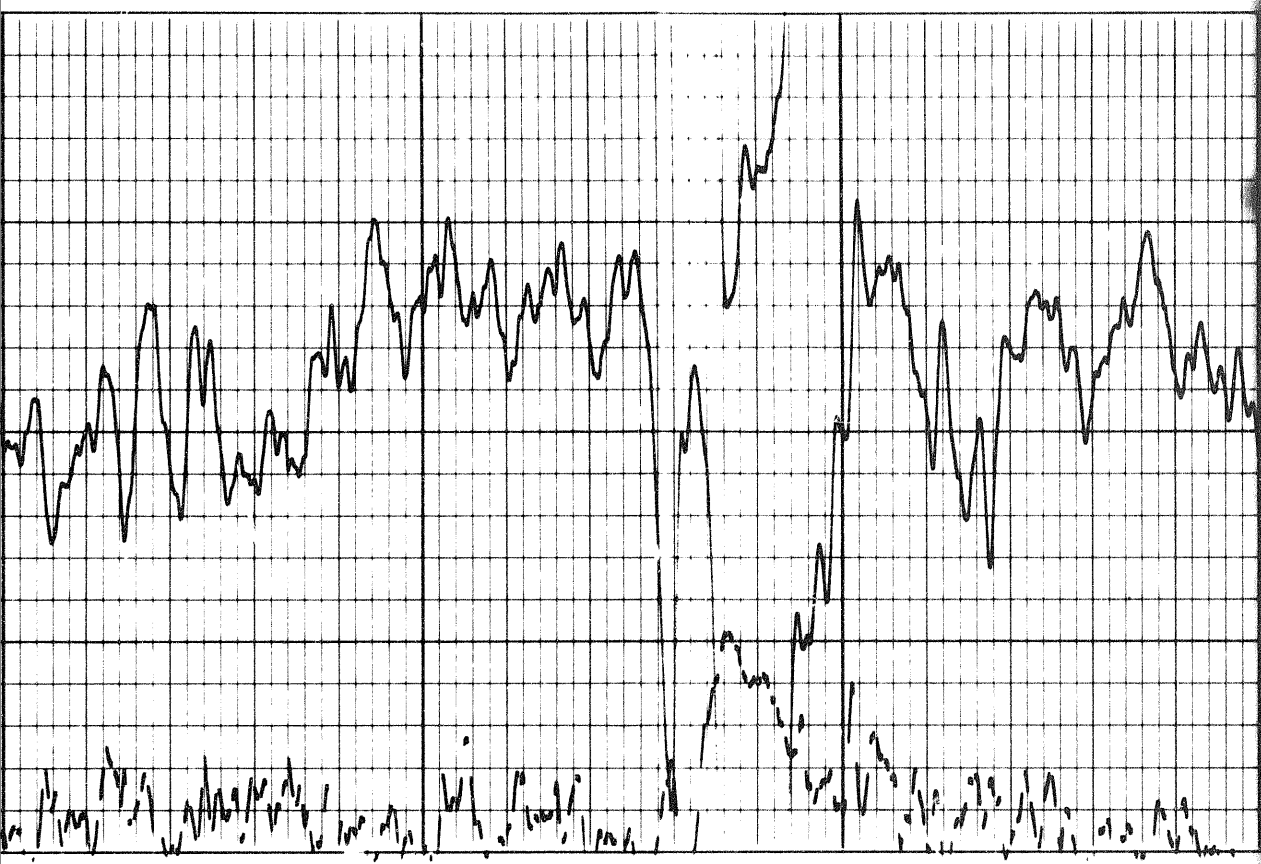


9400

9500

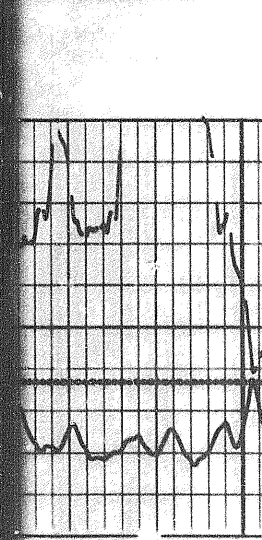
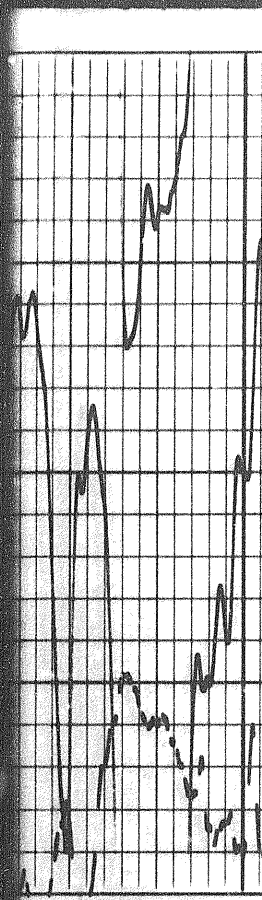
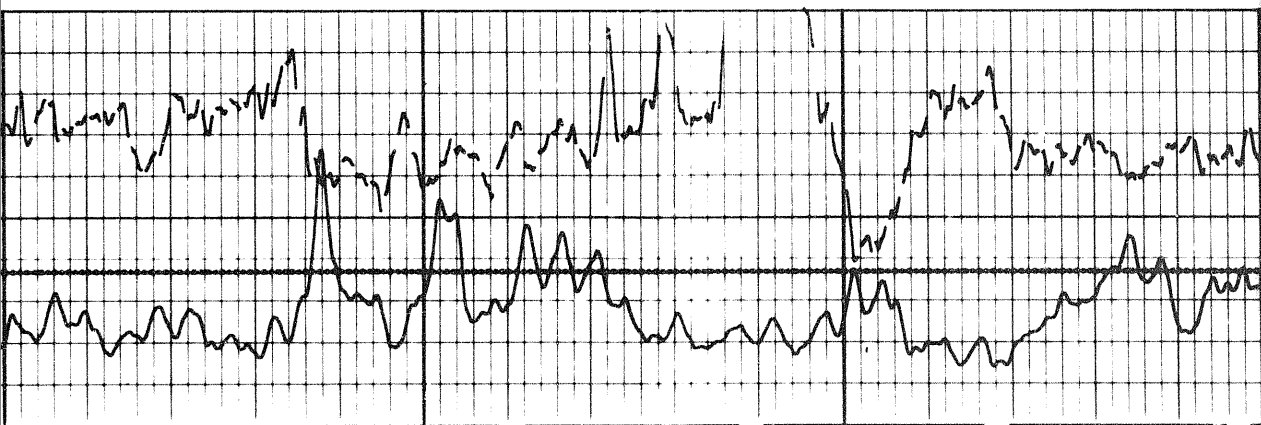


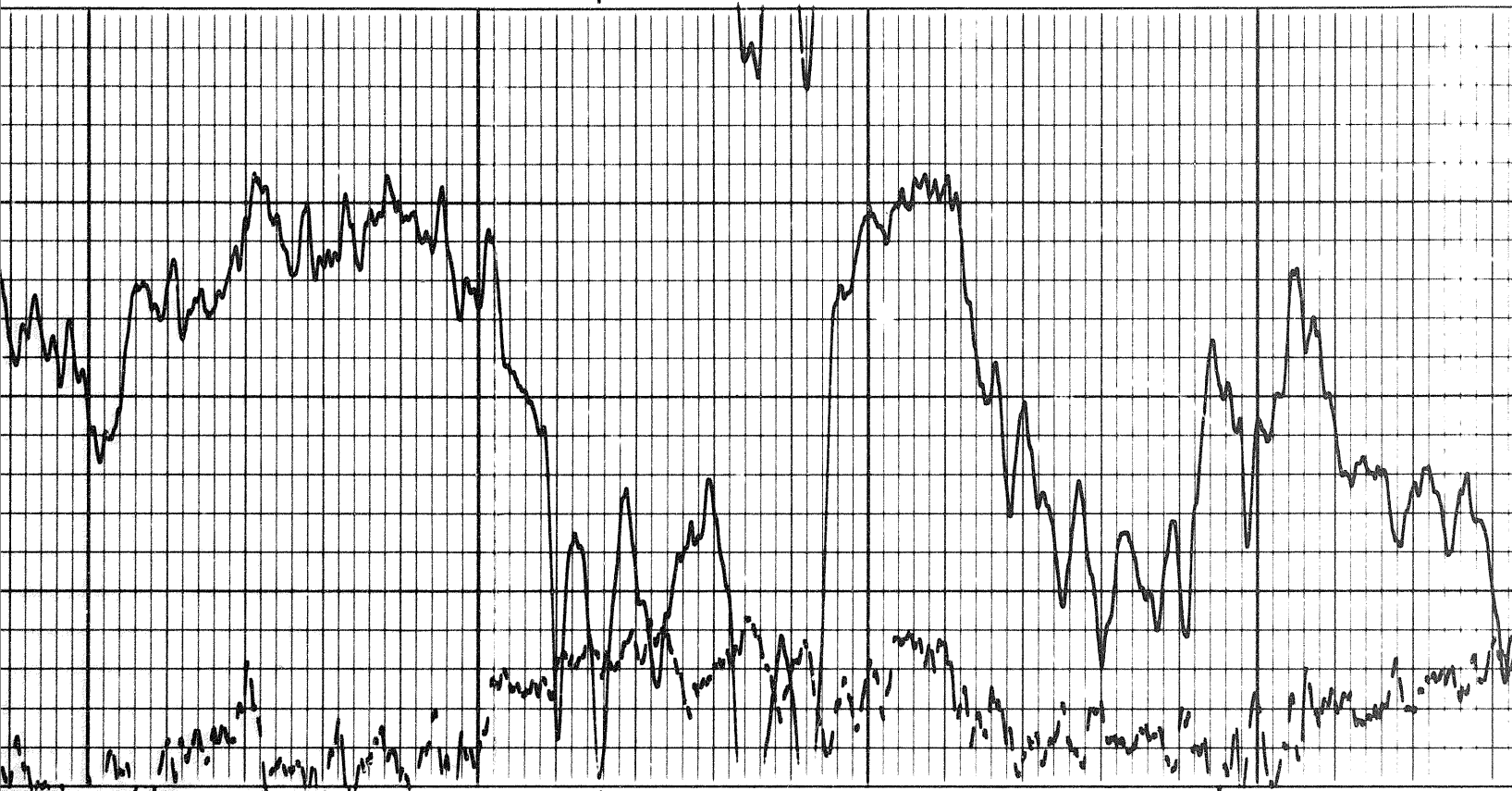
11 of



9600

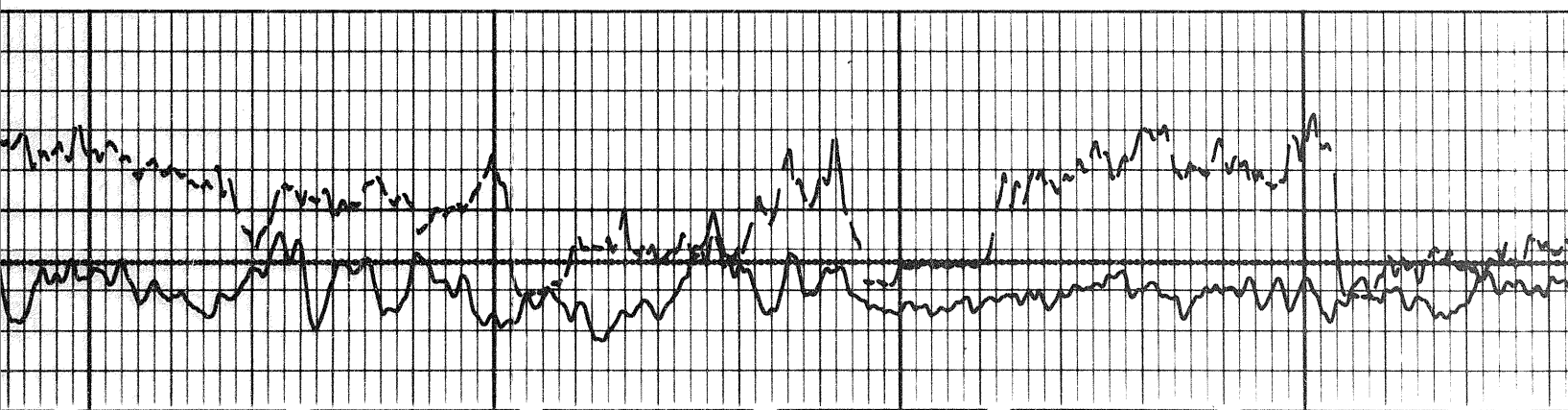
97

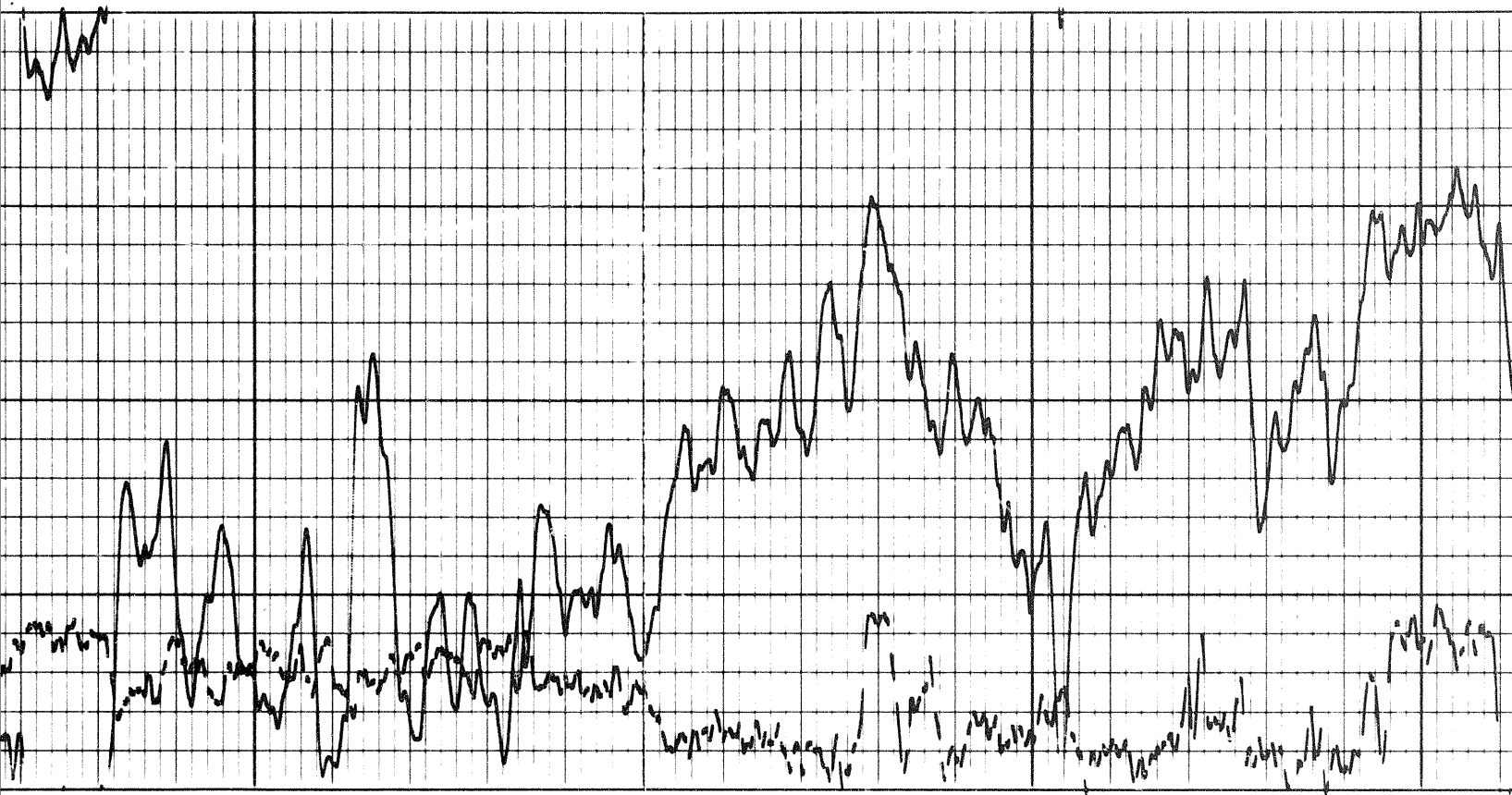




9700

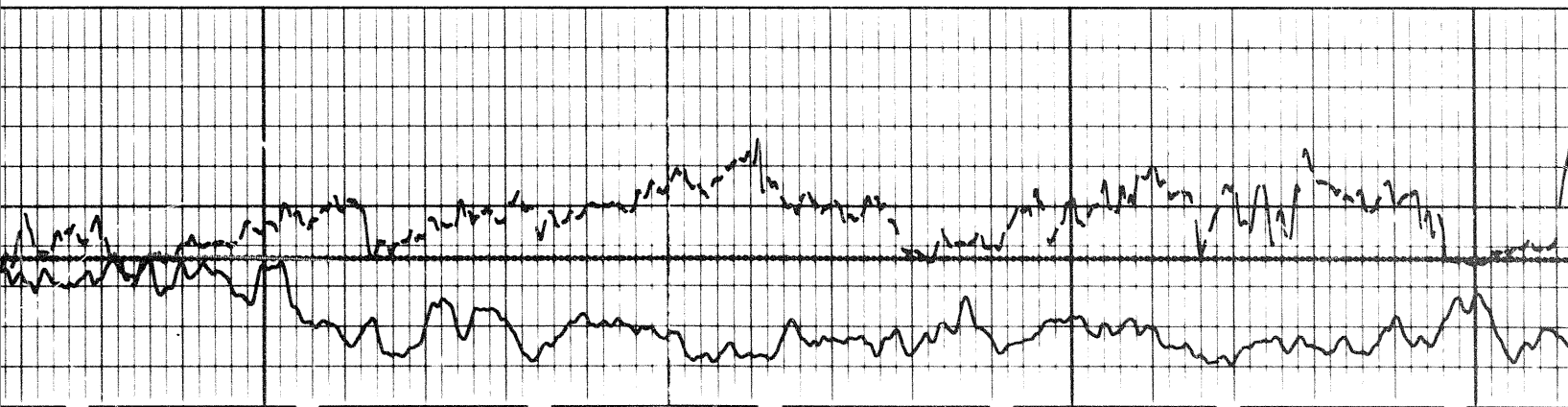
9800



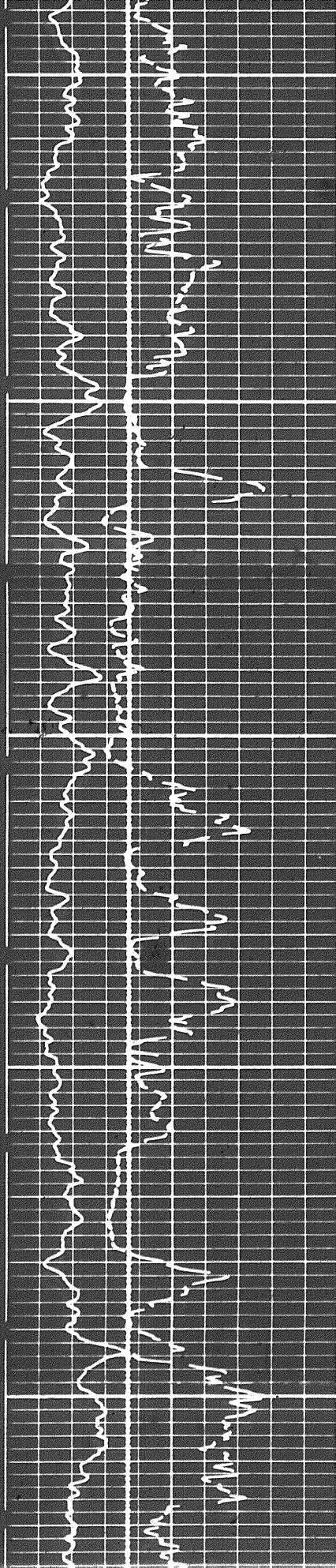


10000

10100

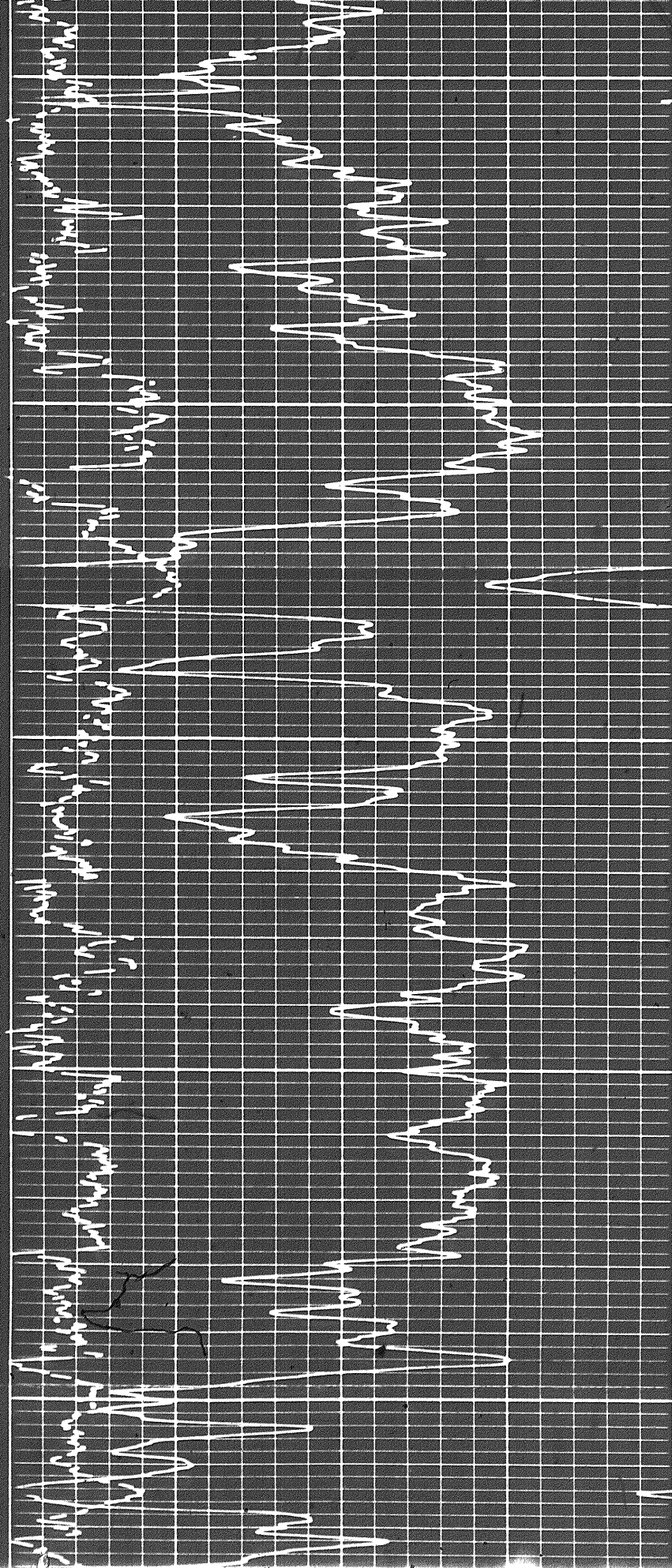


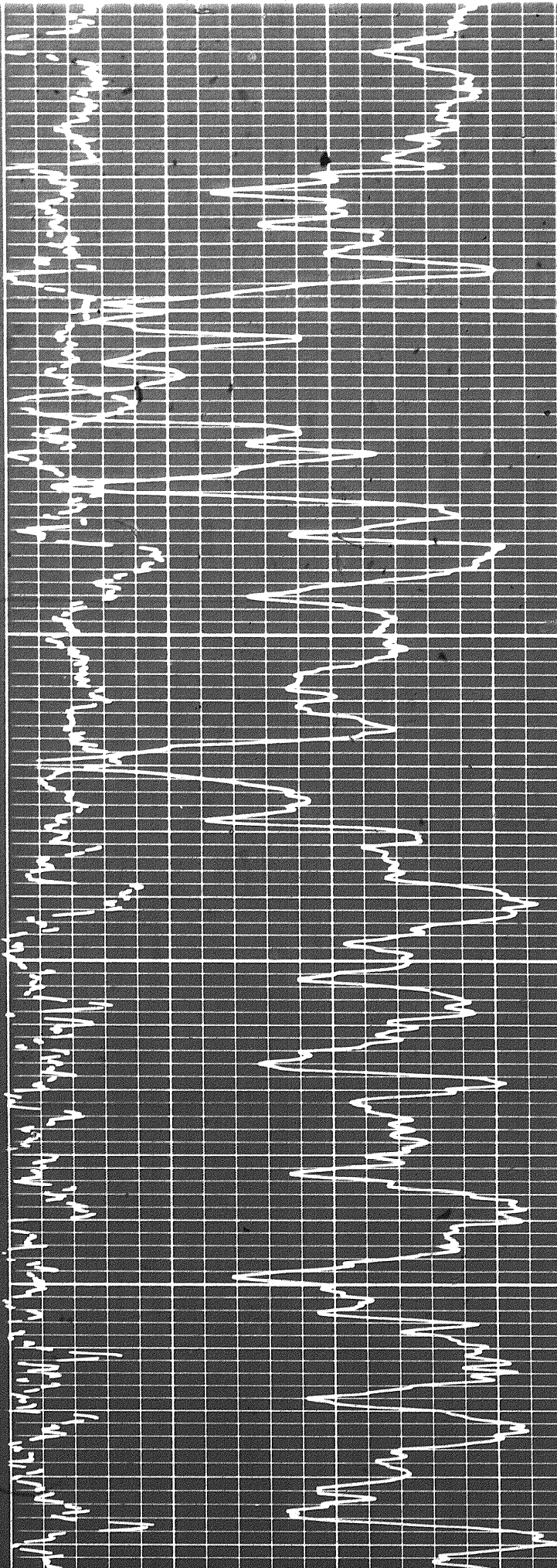
12 of



1000

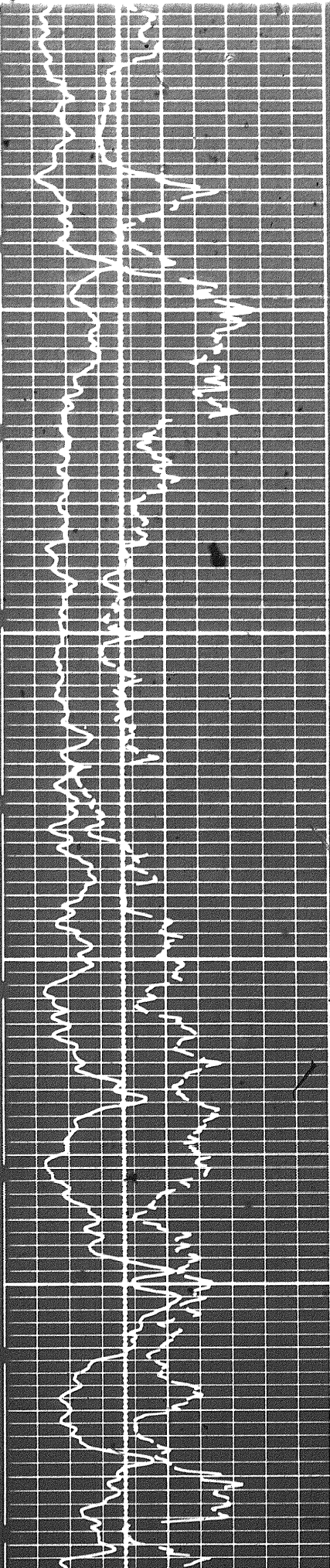
1020



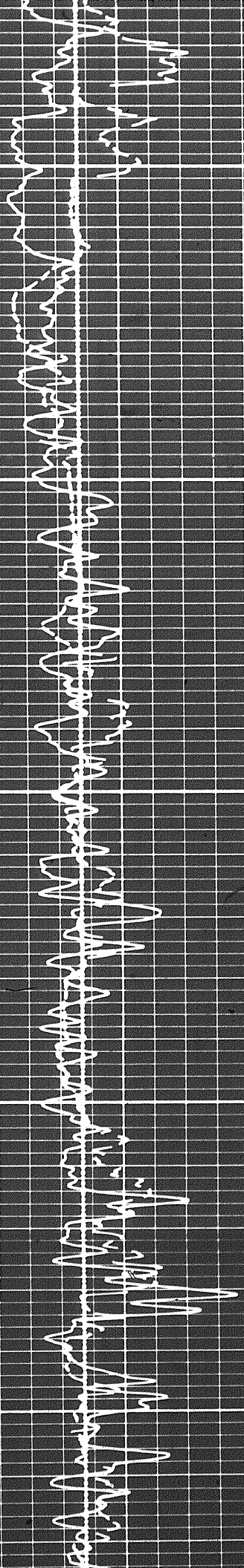


10300

10400

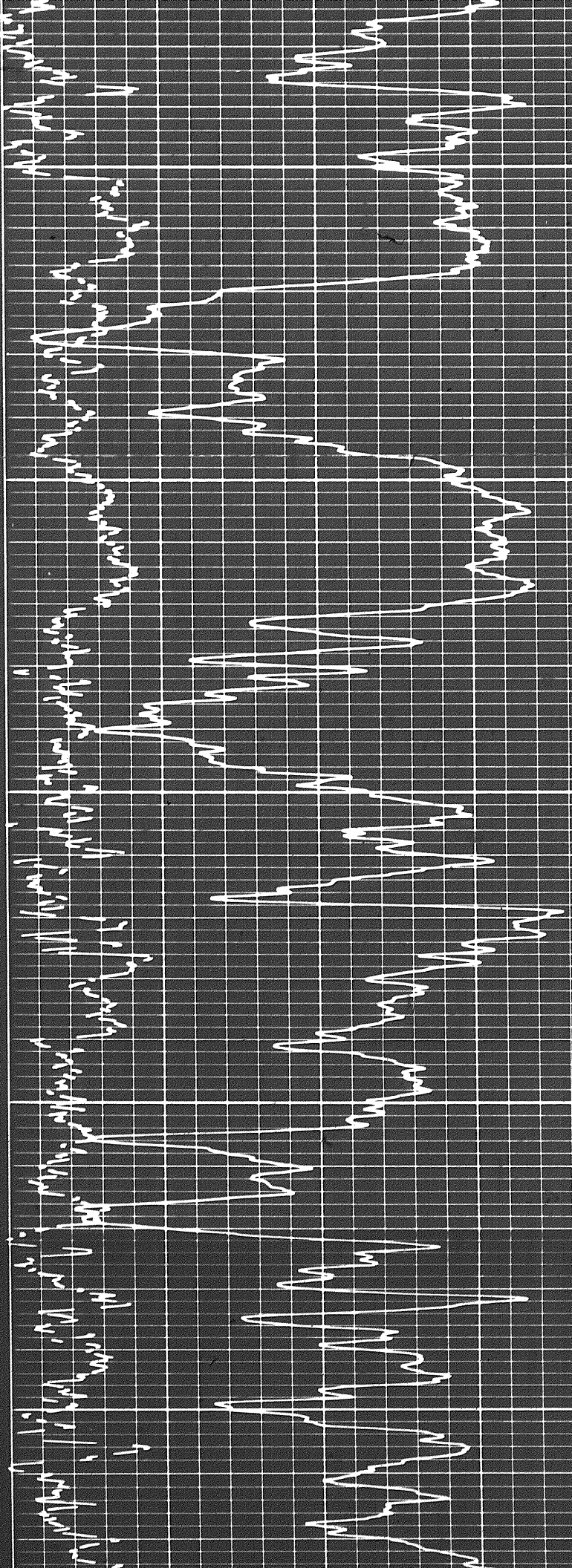


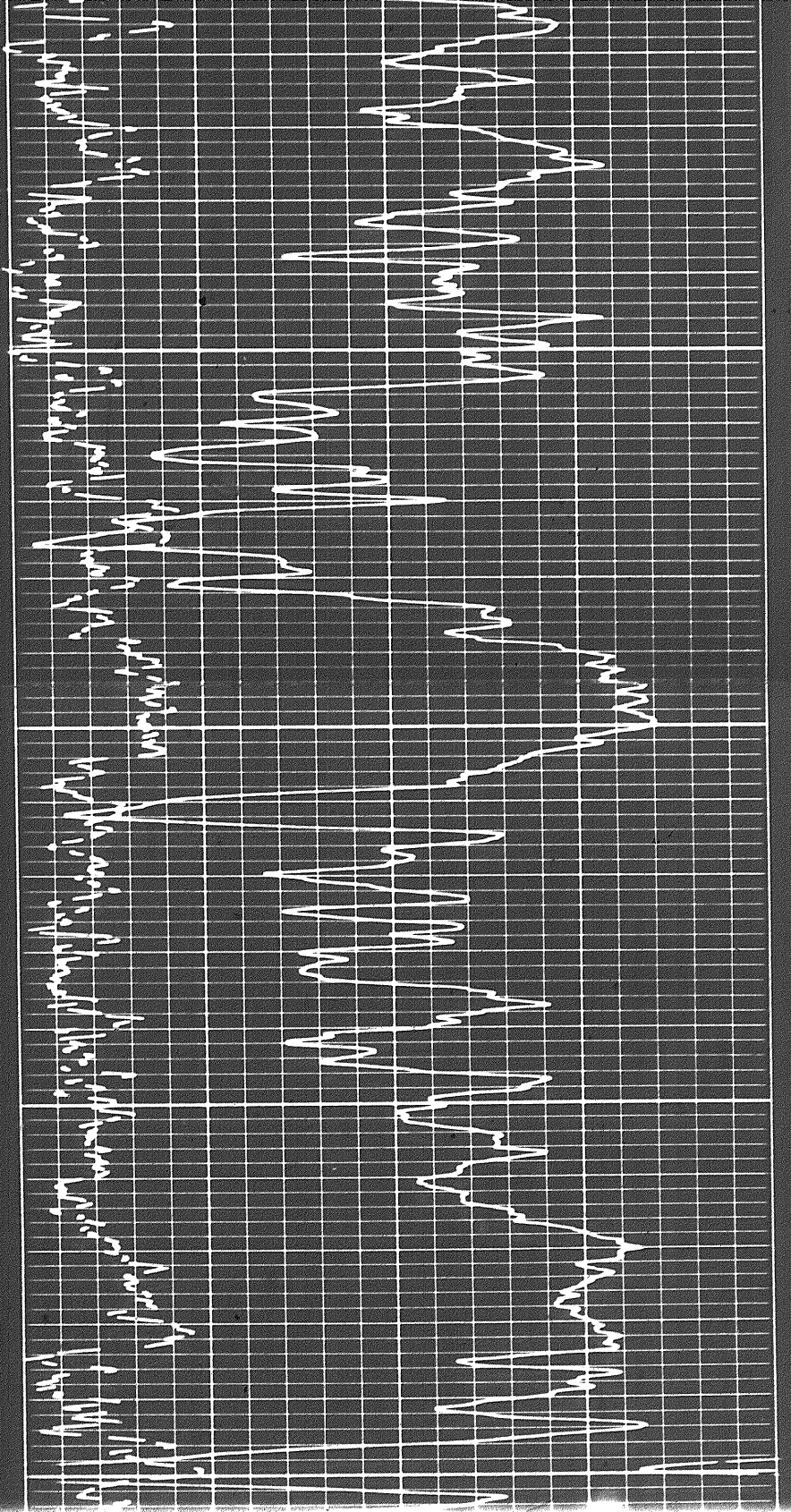
1967



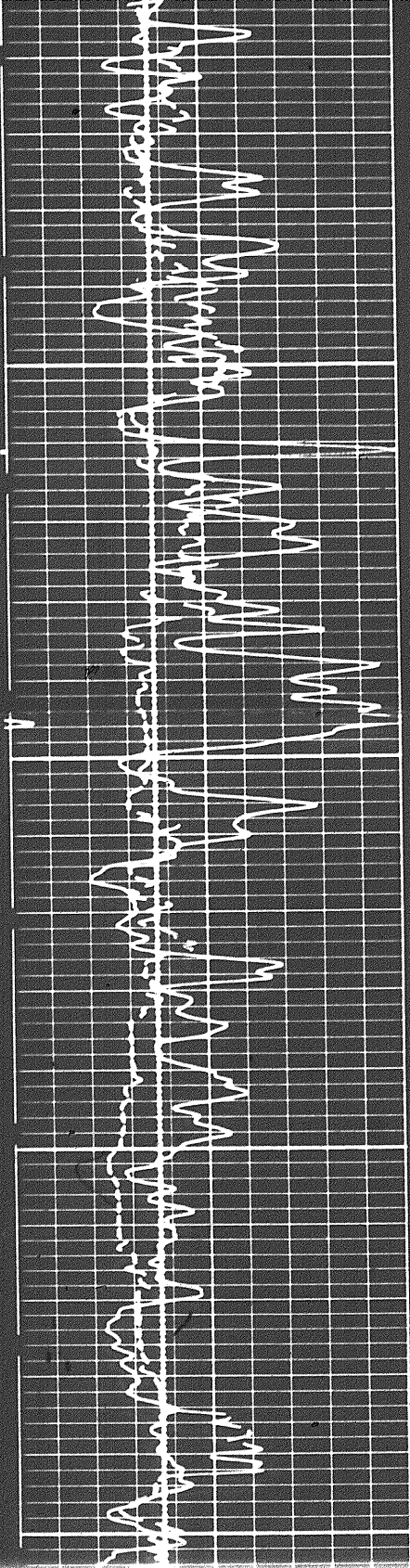
0050

0050





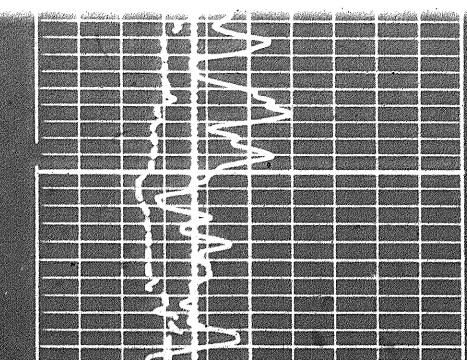
10700

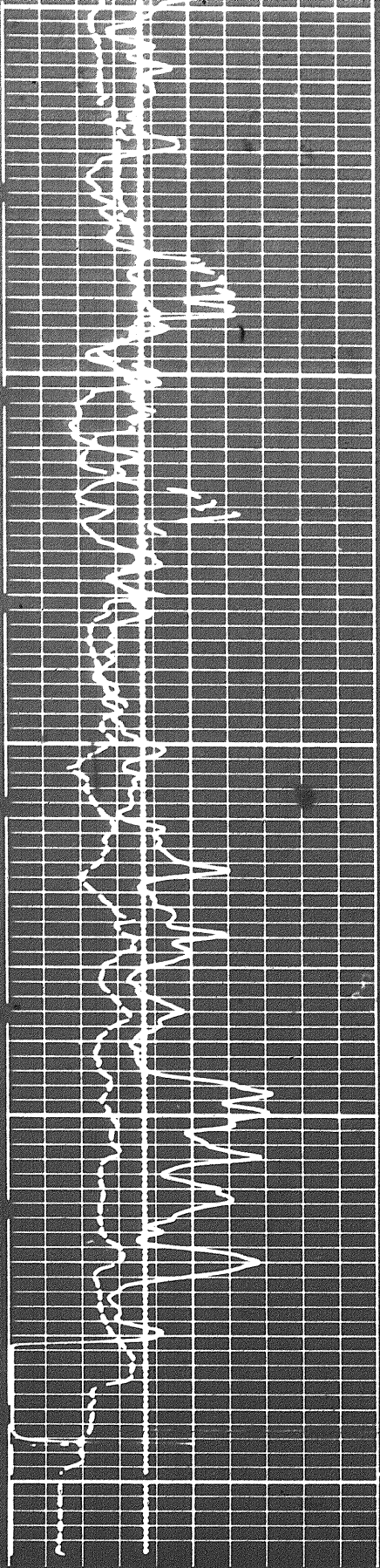


10800



10900

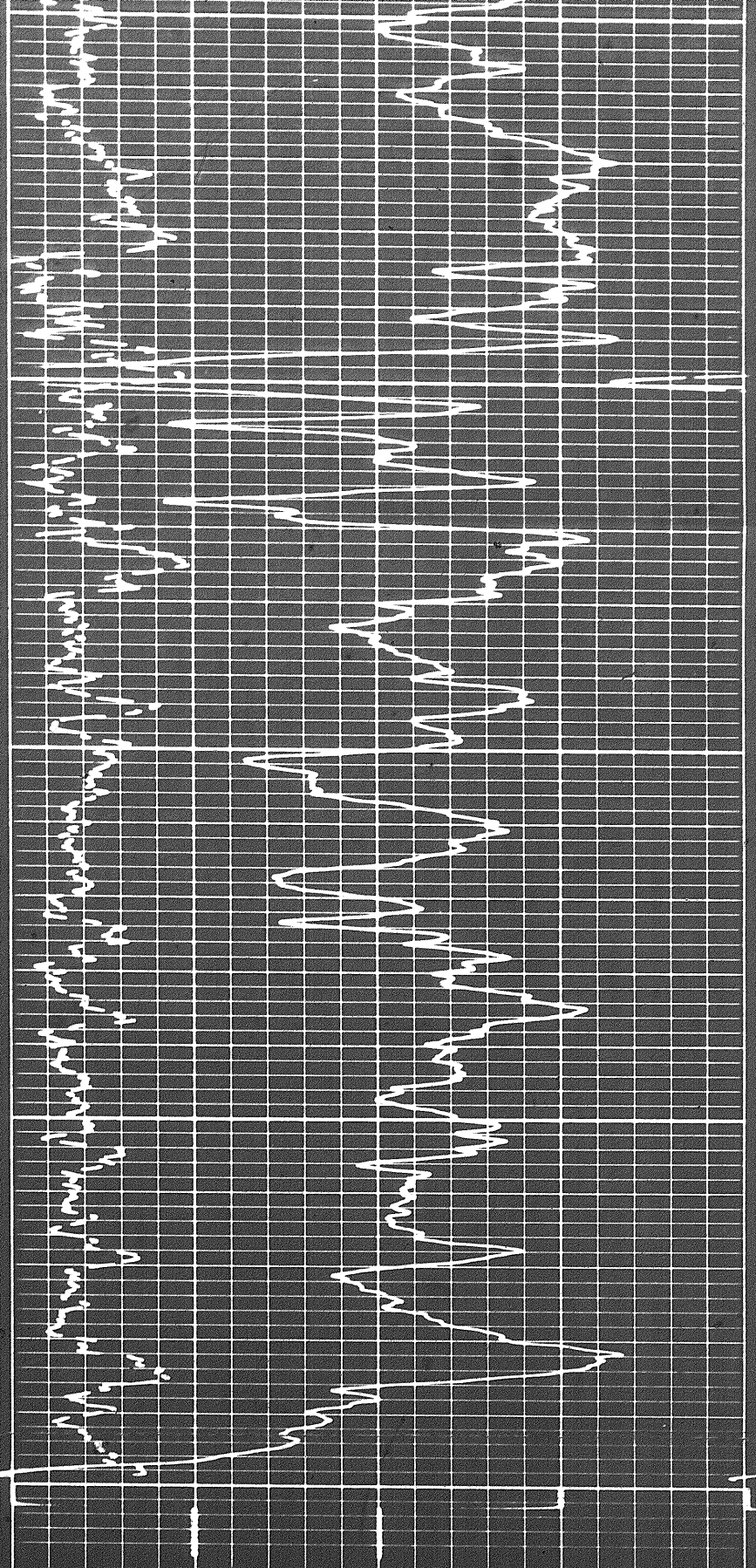




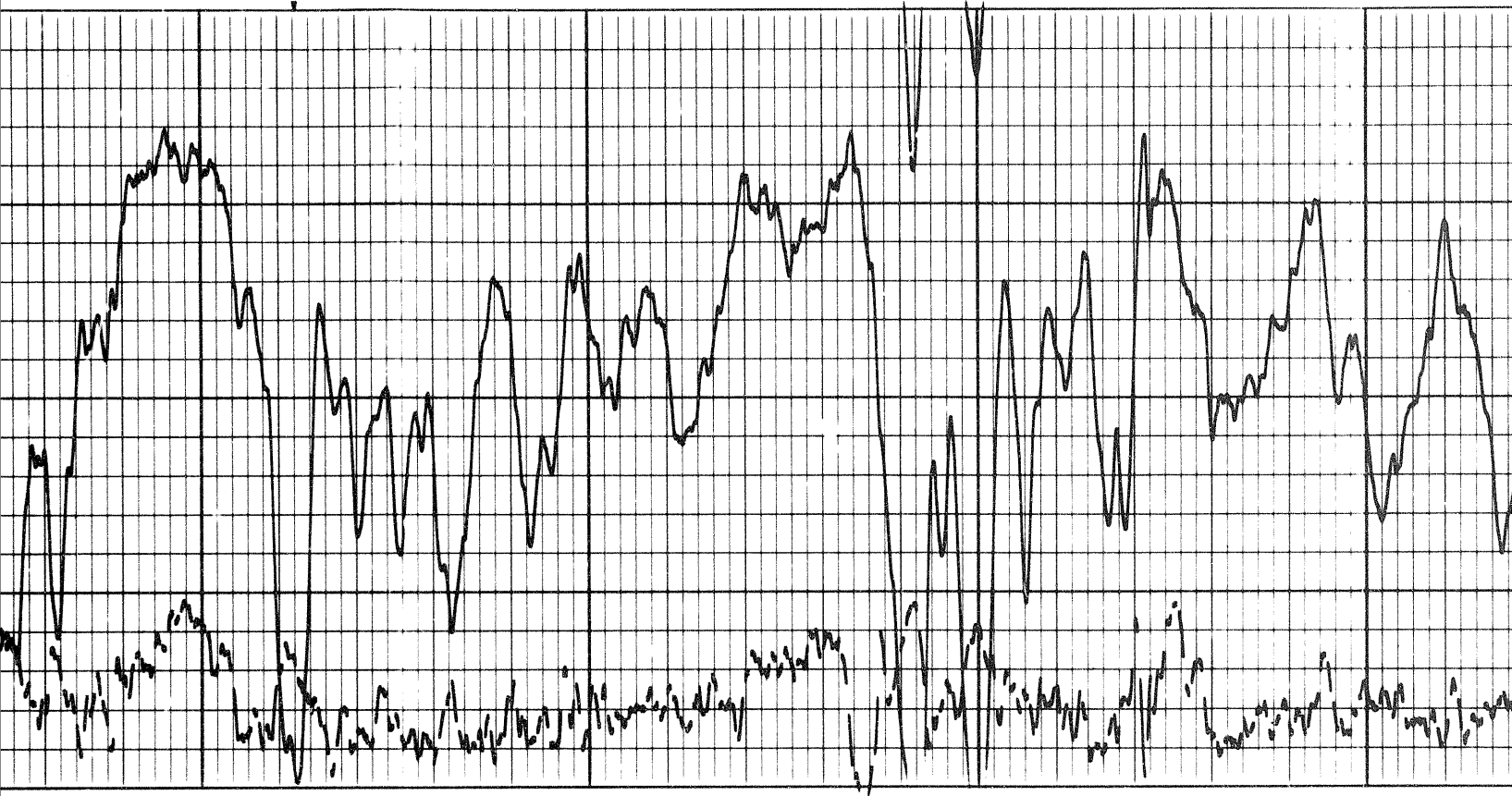
0000

10000

RE 10000

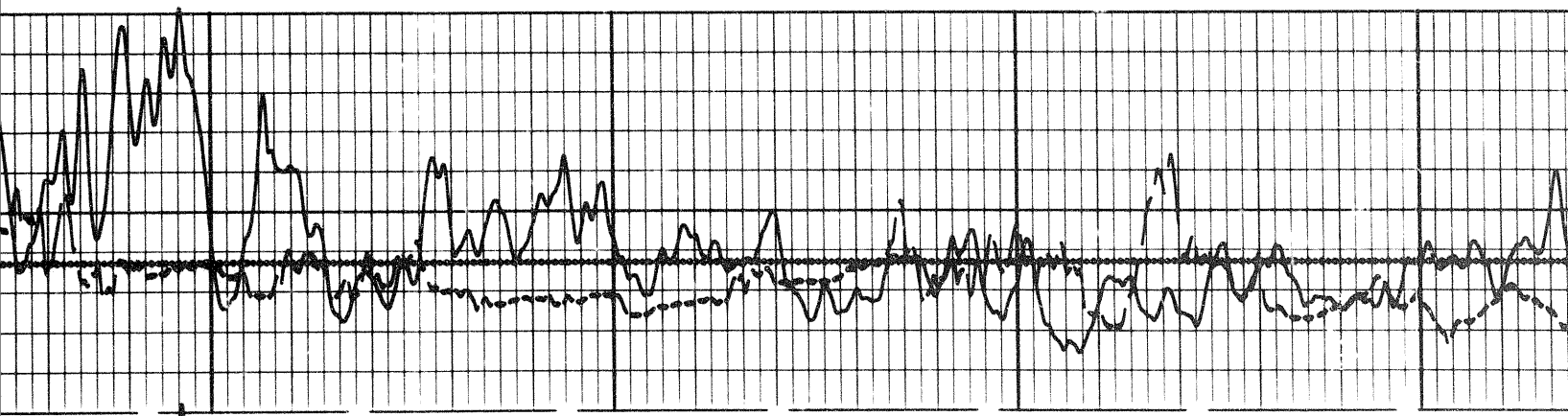


REPEAT SECTION

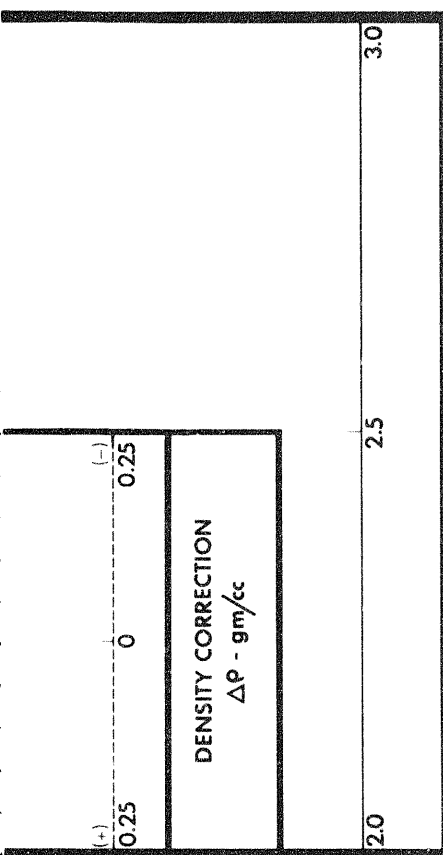
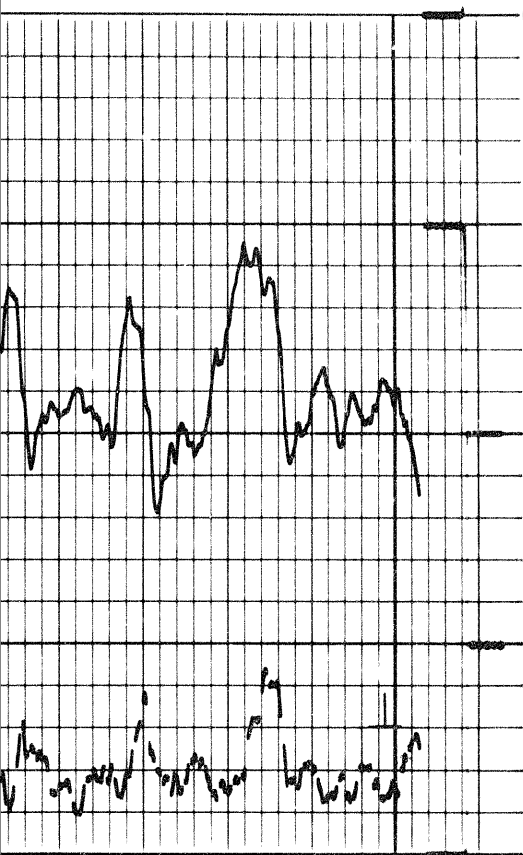


10800

10900



of



DENSITY CORRECTION
 $\Delta\rho - \text{gm/cc}$

(+) 0.25 0 0.25 (-)

BULK DENSITY
 $\rho_b - \text{gm/cc}$

2.0 2.5 3.0

DEPTHS

CALIPER
hole diameter in inches

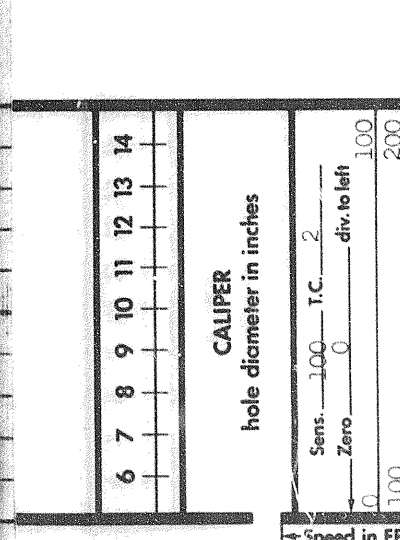
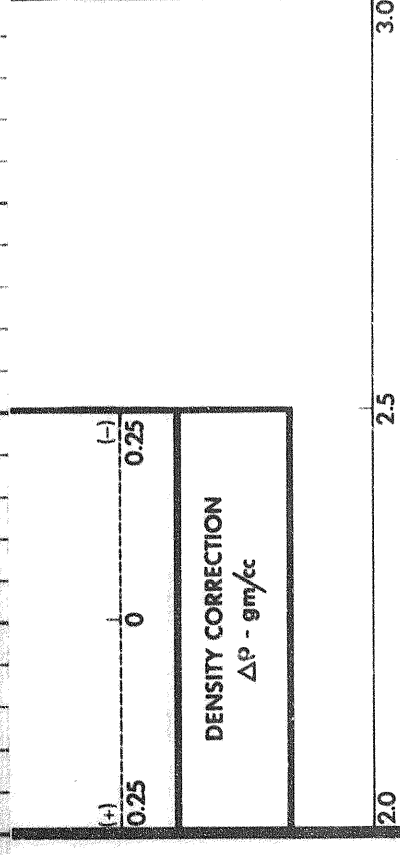
6 7 8 9 10 11 12 13 14

Sens. 100 T.C. 2
Zero 0 div. to left
100
200

GAMMA RAY
API UNITS

Speed in FPM

DETAIL LOG



DENSITY CORRECTION
 $\Delta\rho - \text{gm/cc}$

(+) 0.25 0 0.25 (-)

CALIPER
hole diameter in inches

6 7 8 9 10 11 12 13 14

Sens. 100 T.C. 2
Zero 0 div. to left
100
200

Speed in FPM

2.0 2.5 3.0

GAMMA RAY
API UNITS

DEPTH

BULK DENSITY
 ρ_b - gmy/c

DETAIL LOG
5' = 100'

RUN 2

CALIPER
hole diameter in inches

DEPTH

POROSITY (%)

6 7 8 9 10 11 12 13 14

SANDSTONE

GAMMA RAY
API UNITS

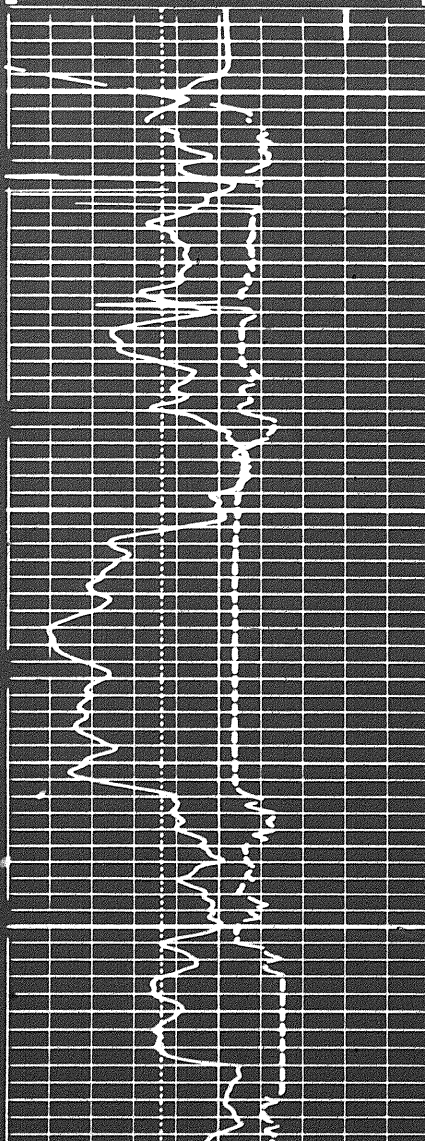
Sens. 150 T.C. 2

Zero 0 div. to left

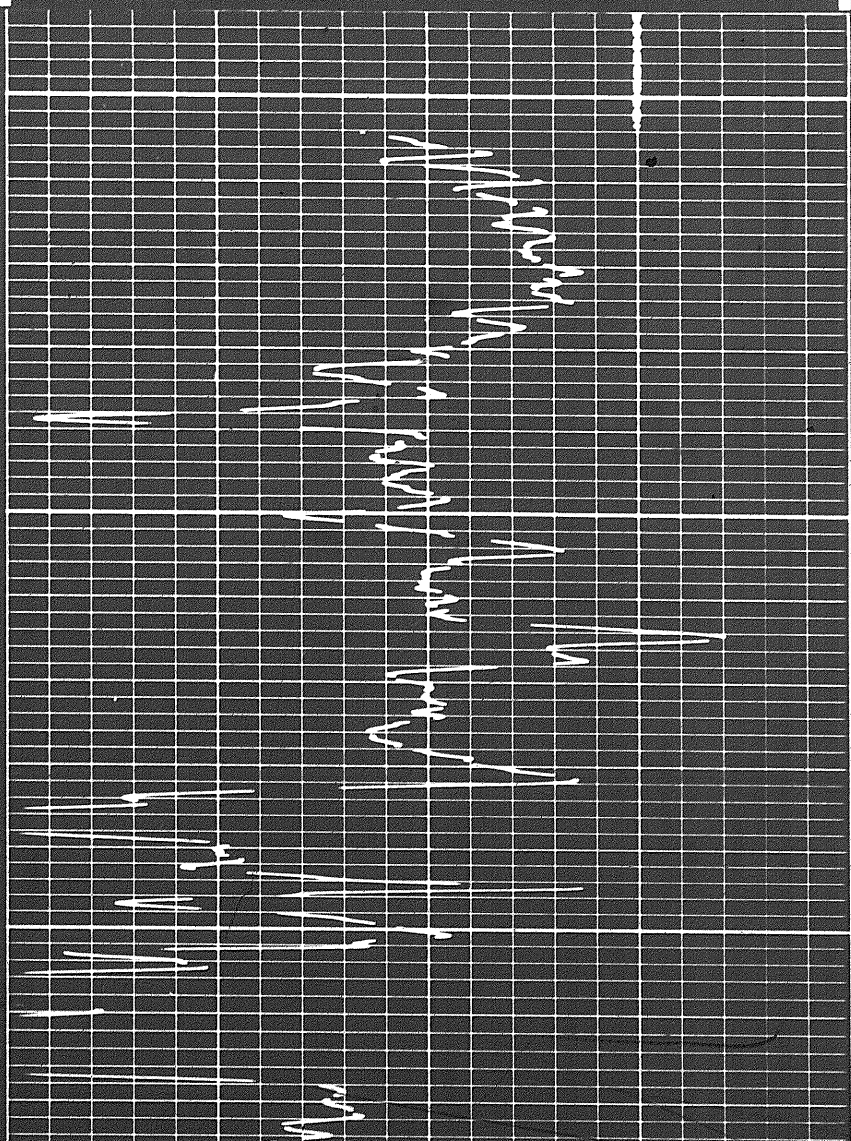
0 150
150 300

Speed in FPM

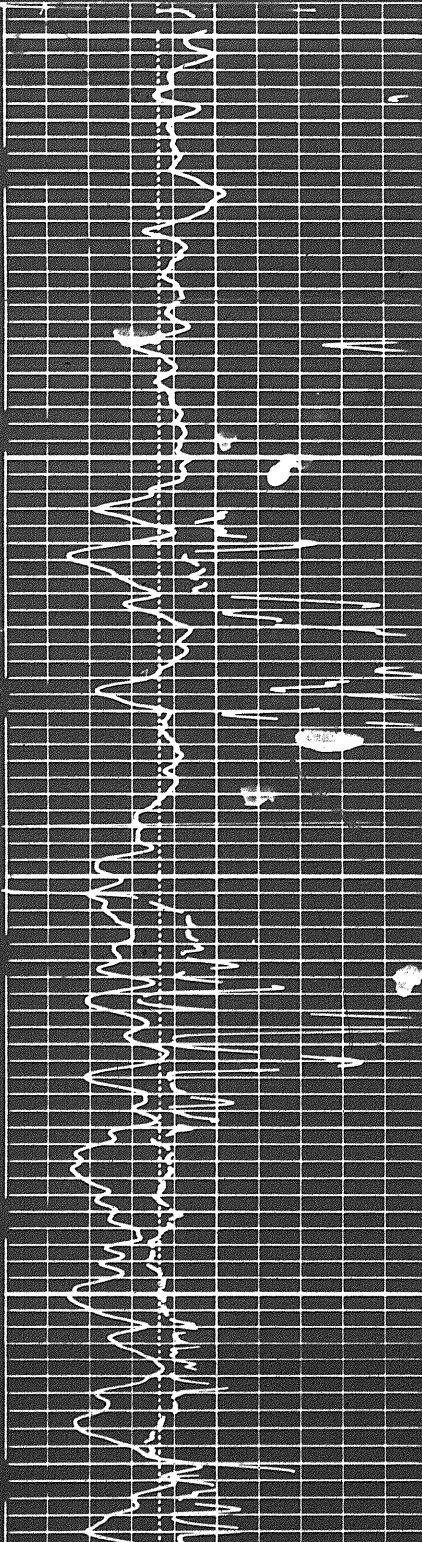
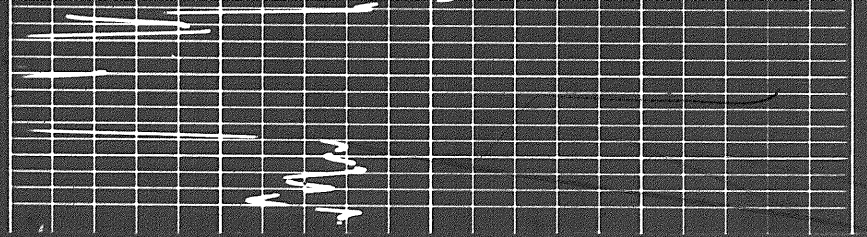
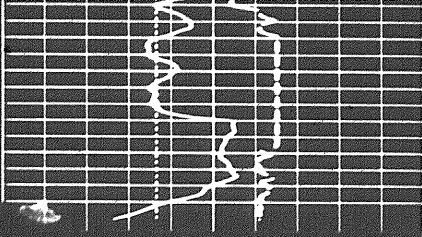
15 30 15 0 -15



1500

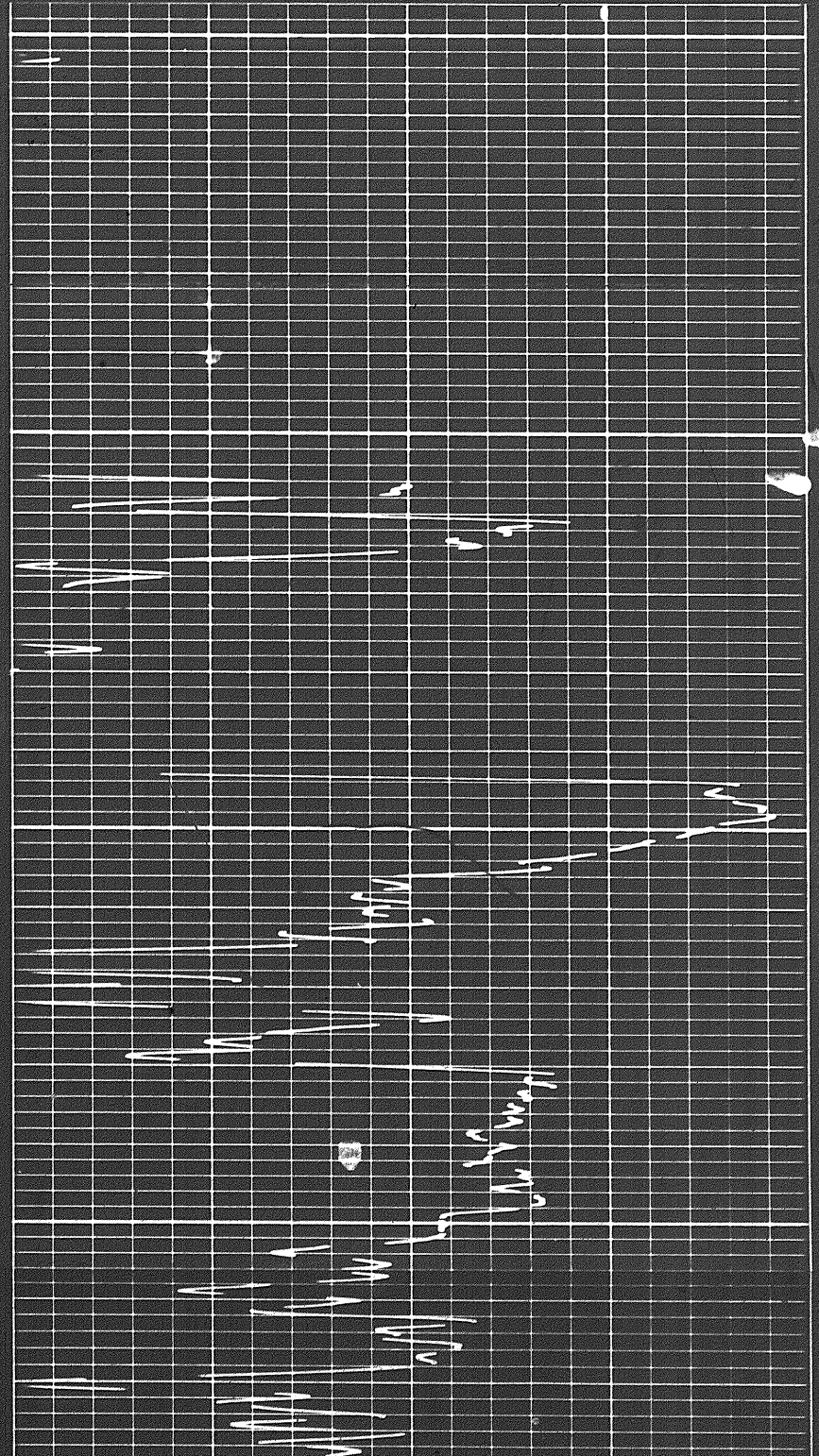


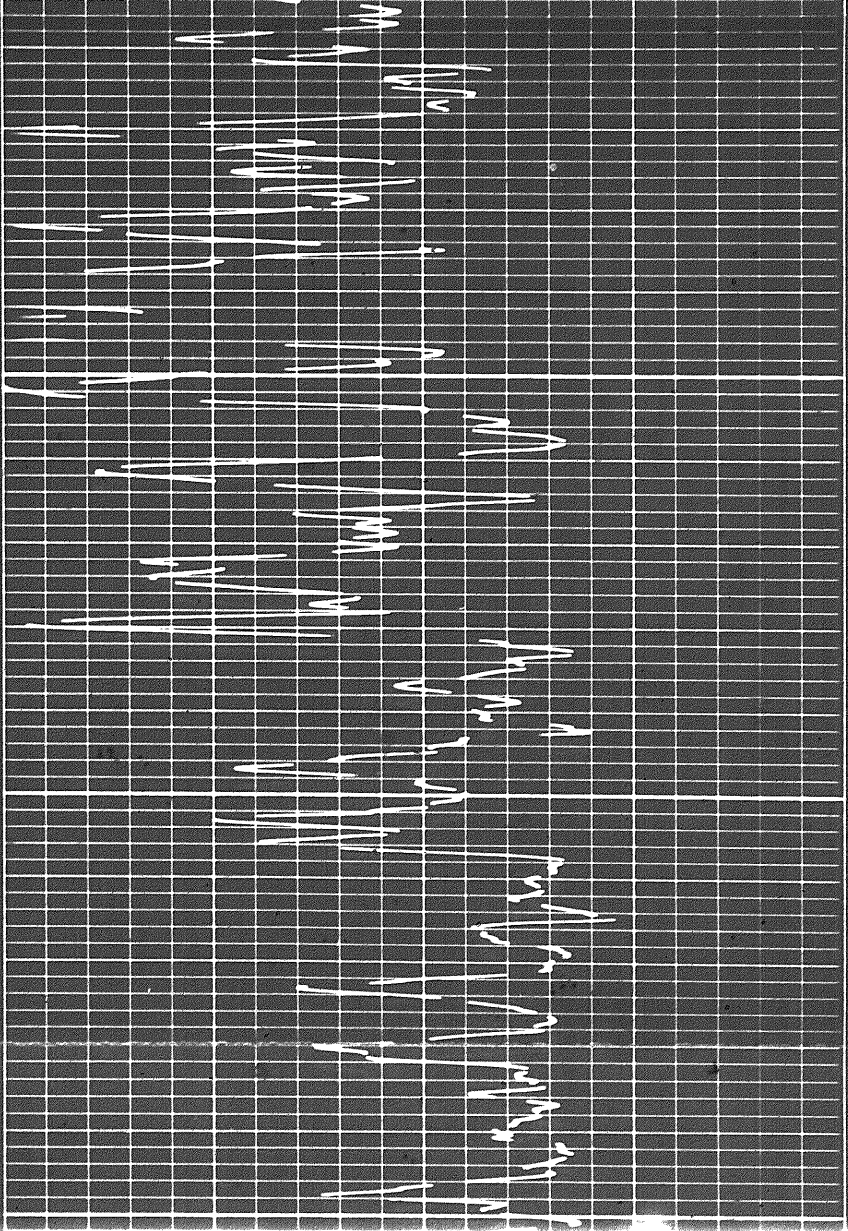
15 of



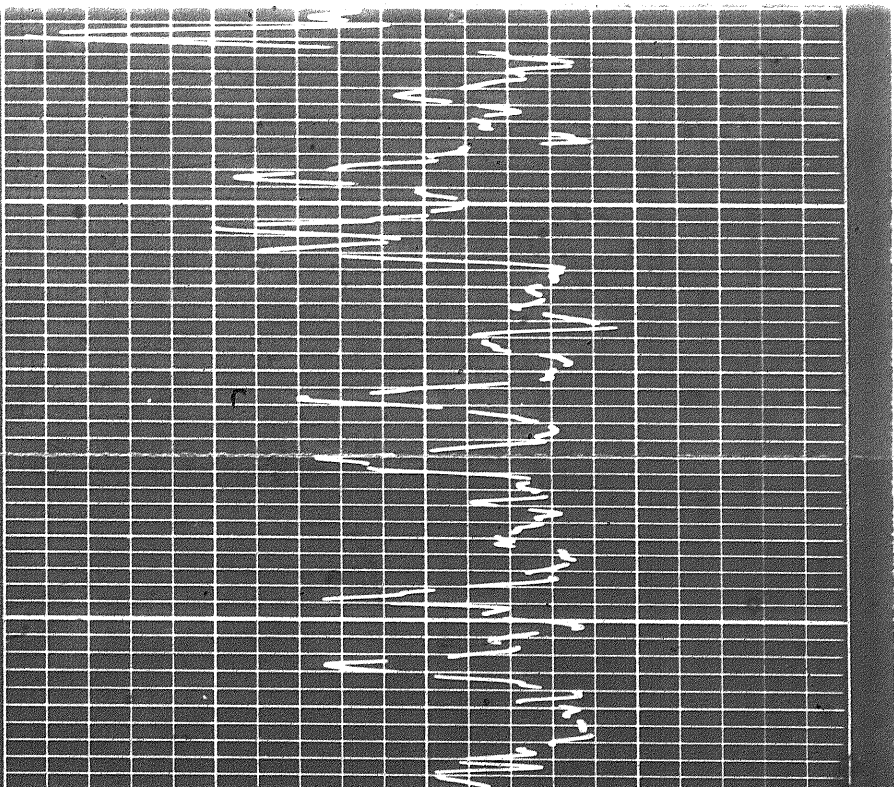
4200

4300

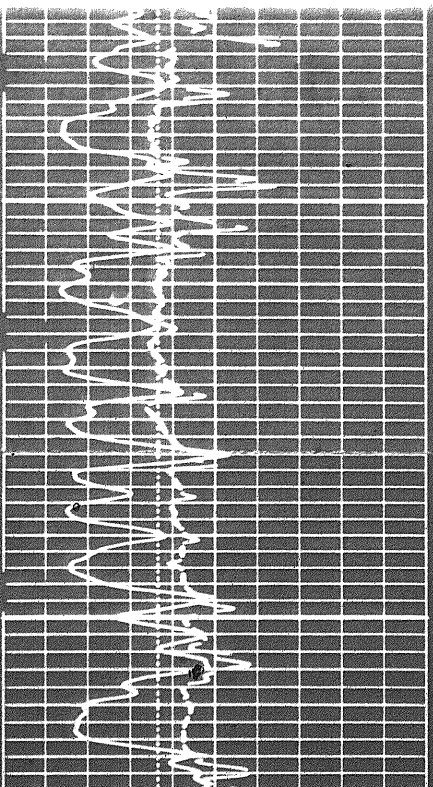
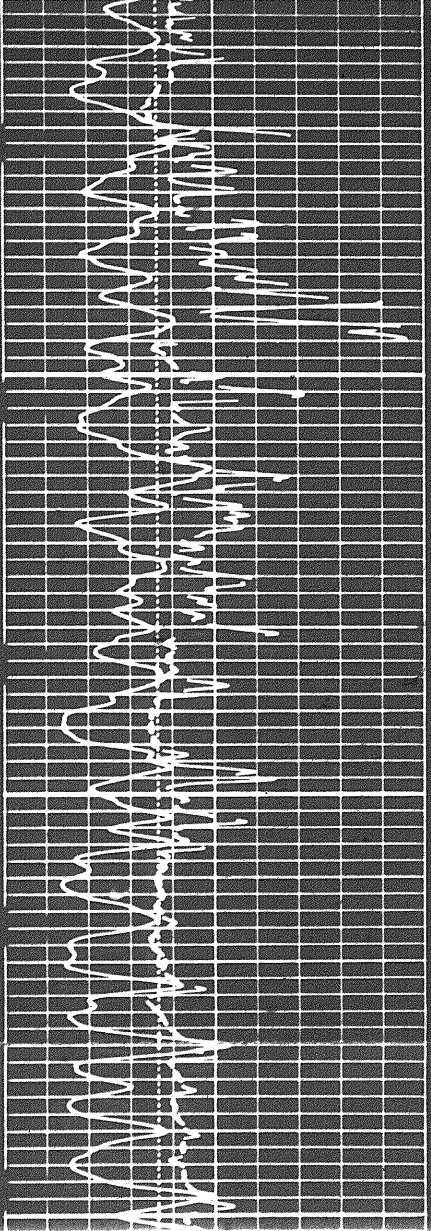


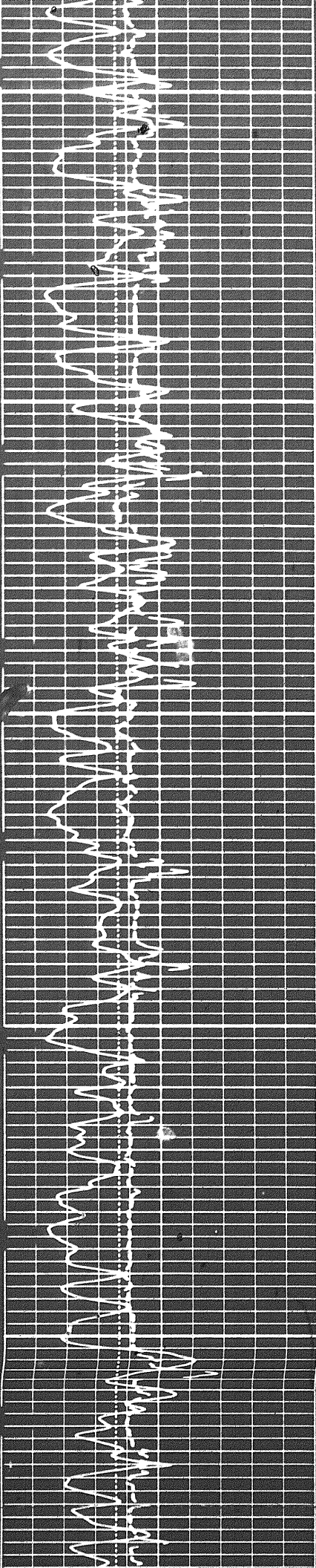


4400



4500

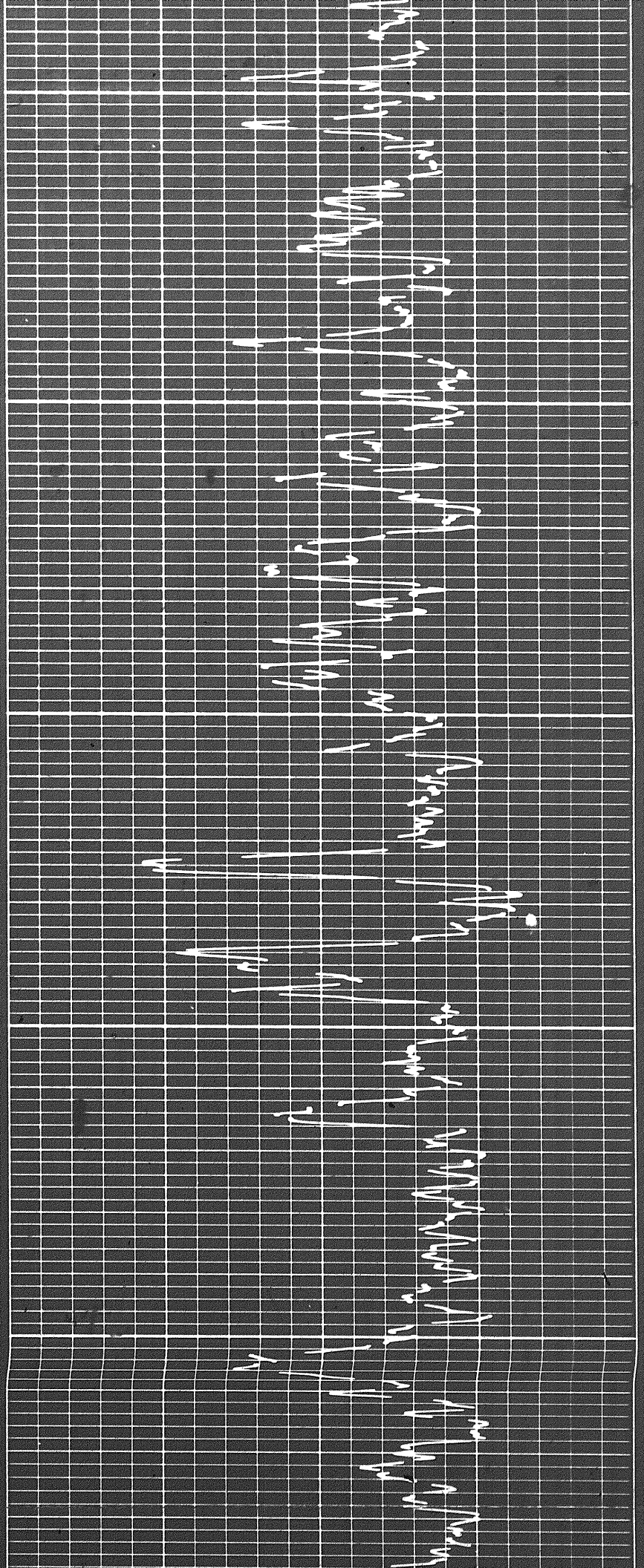




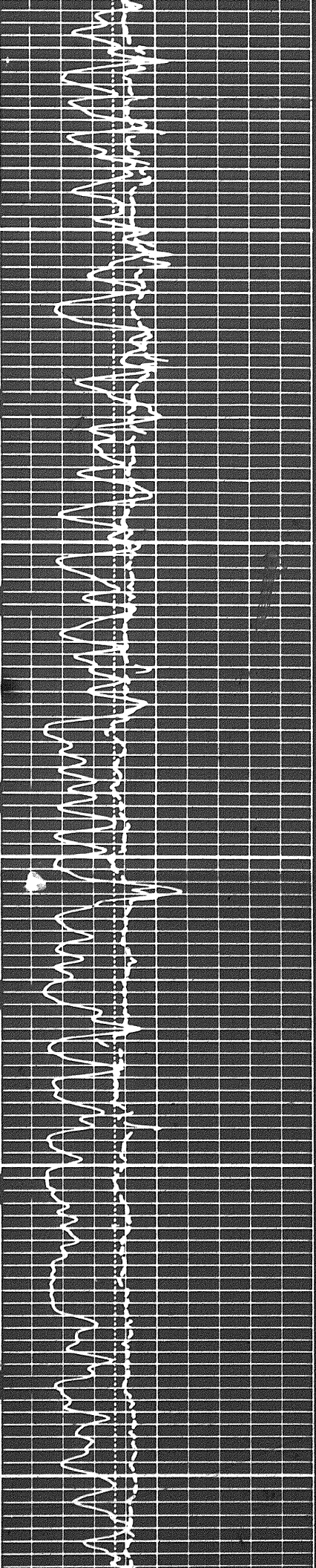
4500

4600

4700

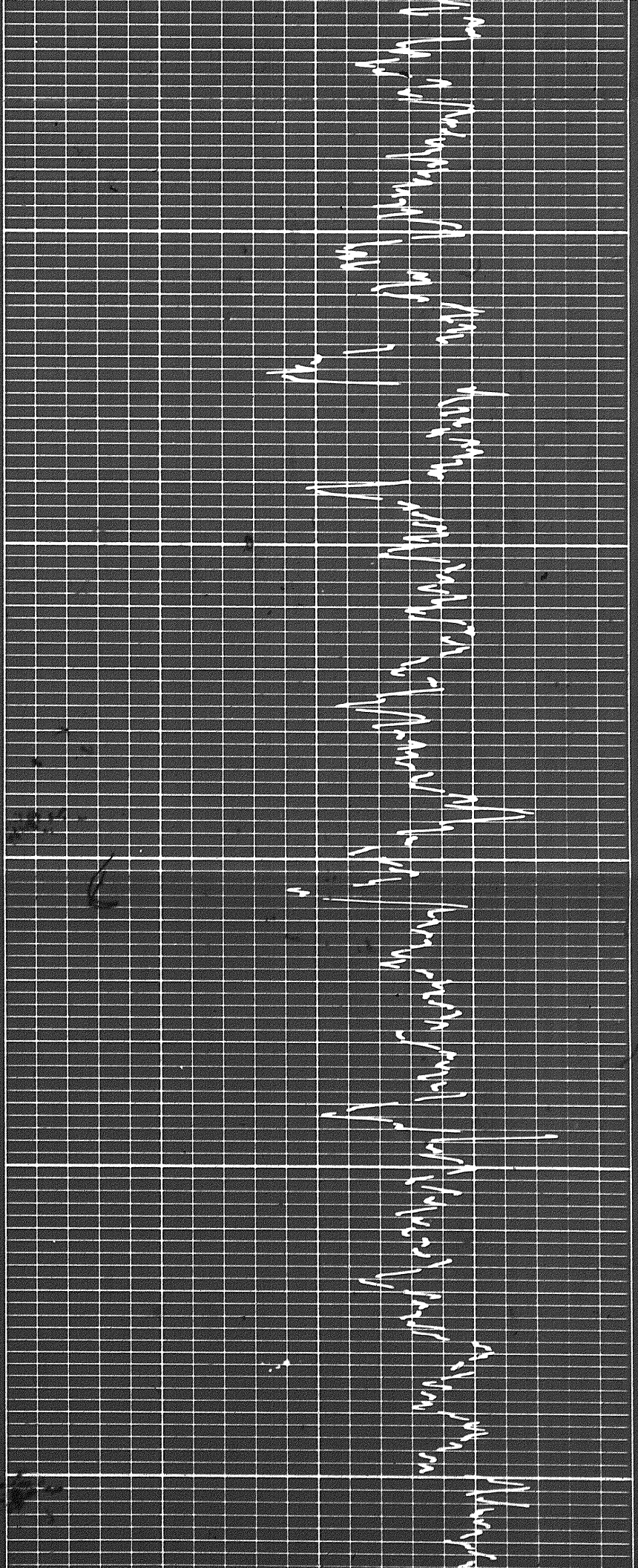


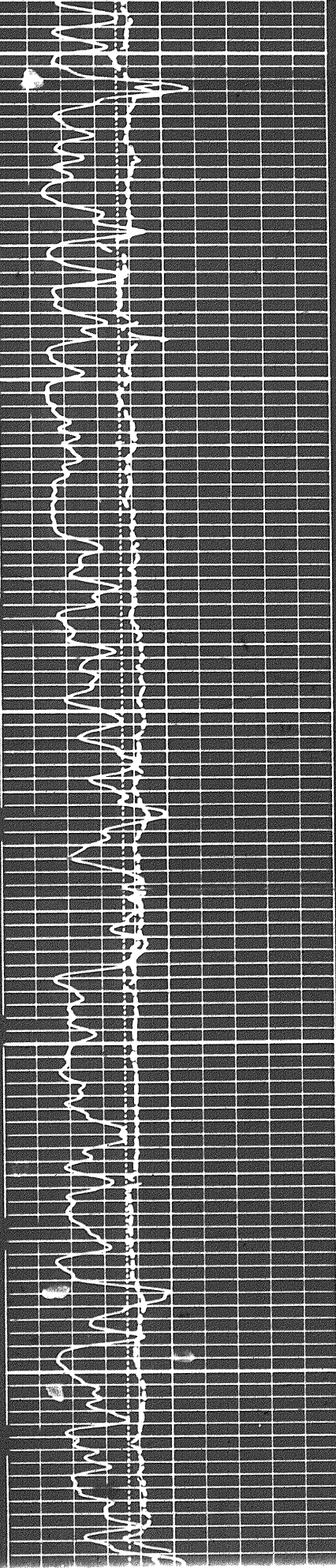
1602



4800

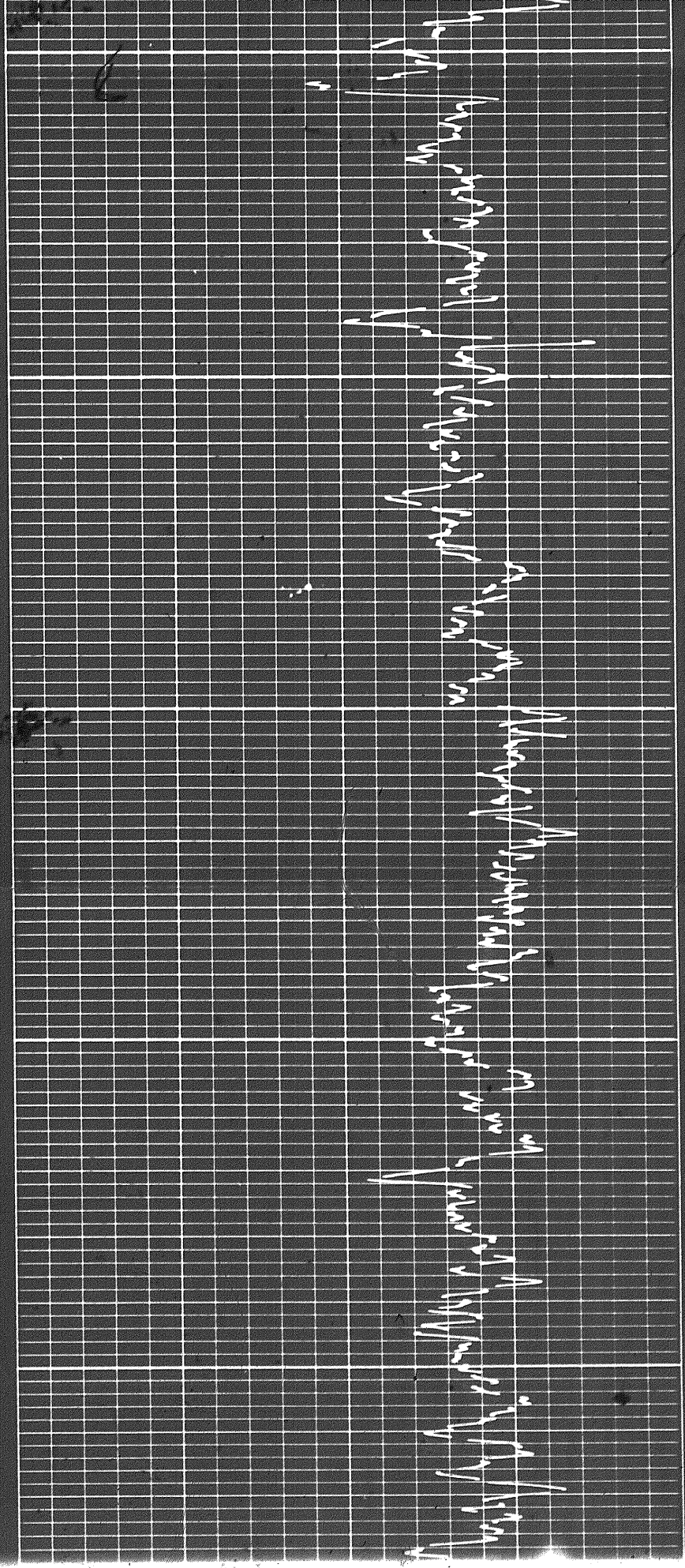
4900

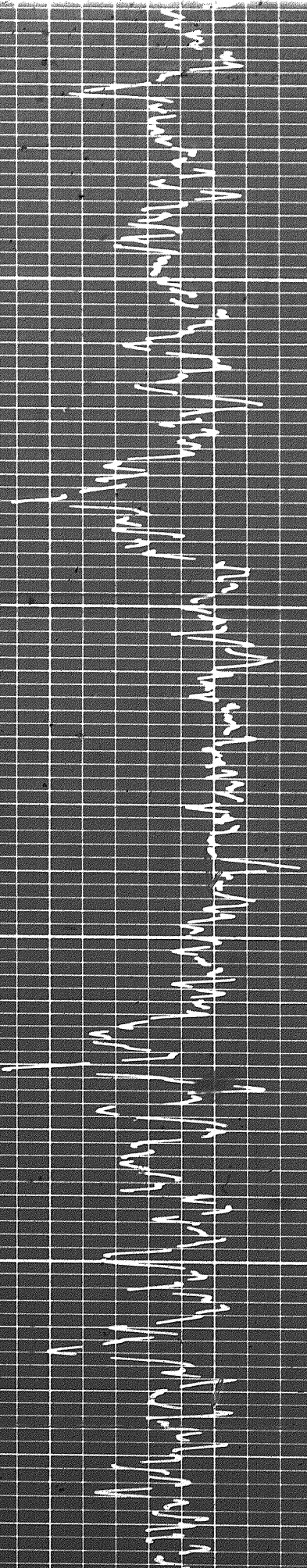




4300

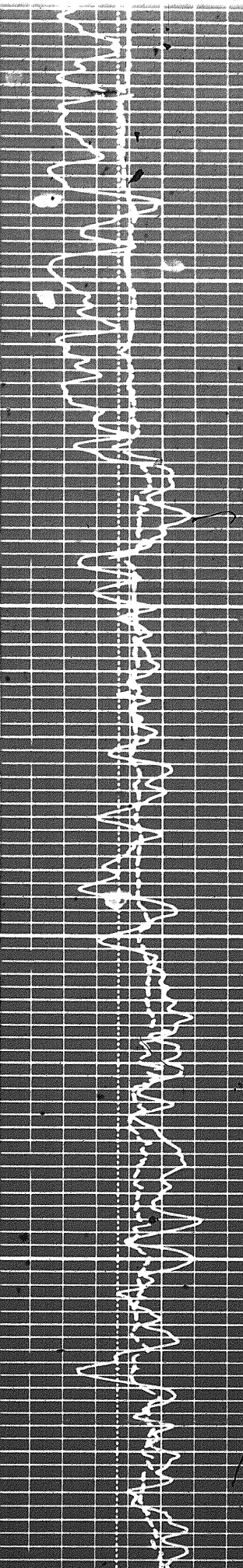
5000



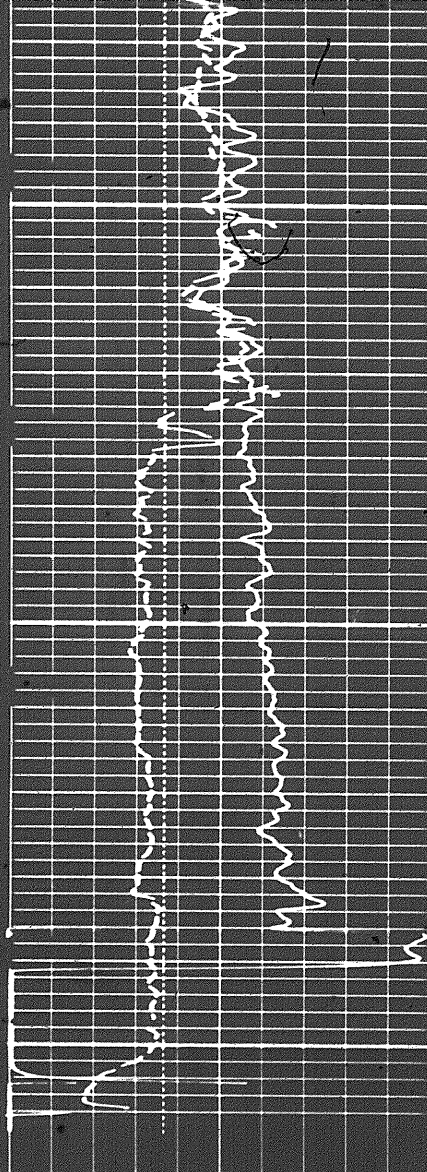


8100

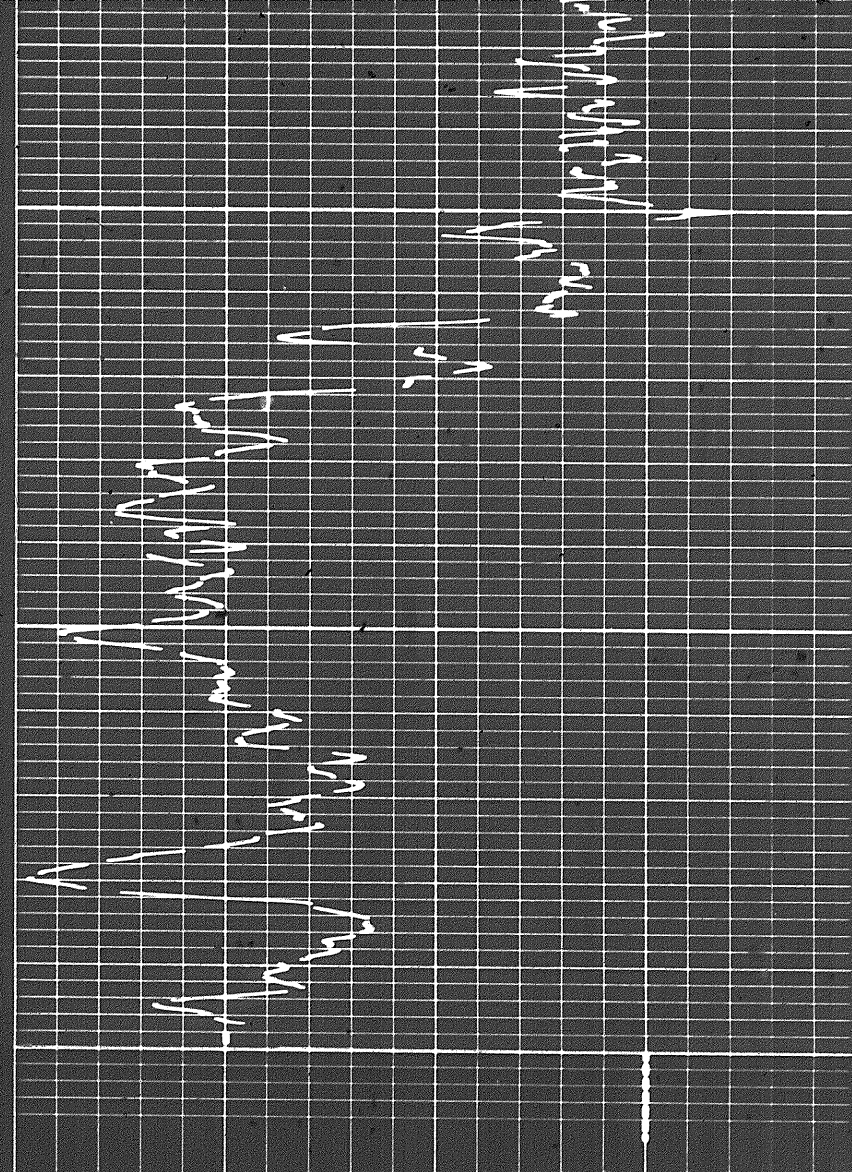
5200



1721



5300

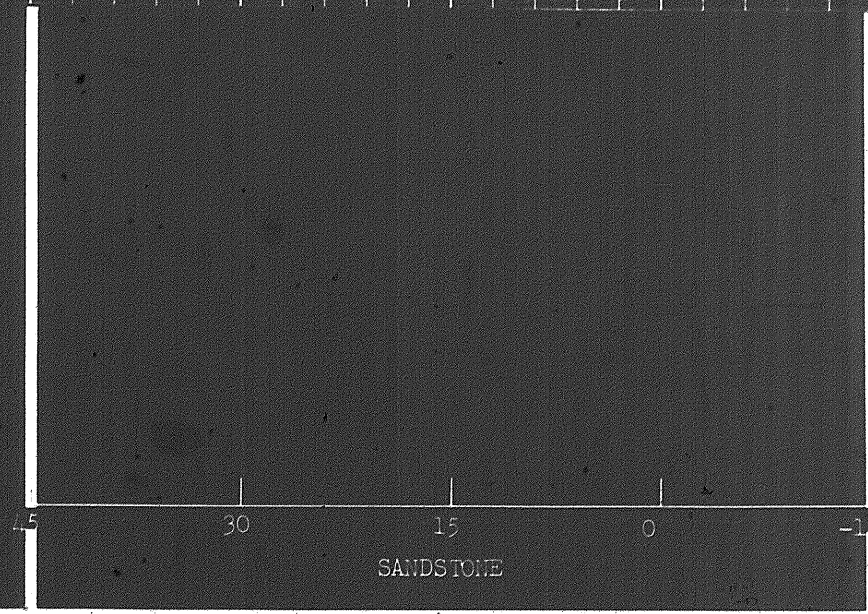


Sens. 150 T.C. 2
 Zero 0 div. to left
 0 150
 150 300

GAMMA RAY
API UNITS

6 7 8 9 10 11 12 13 14

Speed in FPM



45 30 15 0 -15

SANDSTONE

CALIPER
hole diameter in inches

DEPTHS

POROSITY (%)

DETAIL LOG
5" = 100'

RUN 2

CALIPER
hole diameter in inches

DEPTHS

POROSITY (%)

CALIPER
hole diameter in inches

DEPTH

POROSITY (%)

6 7 8 9 10 11 12 13 14

GAMMA RAY
API UNITS

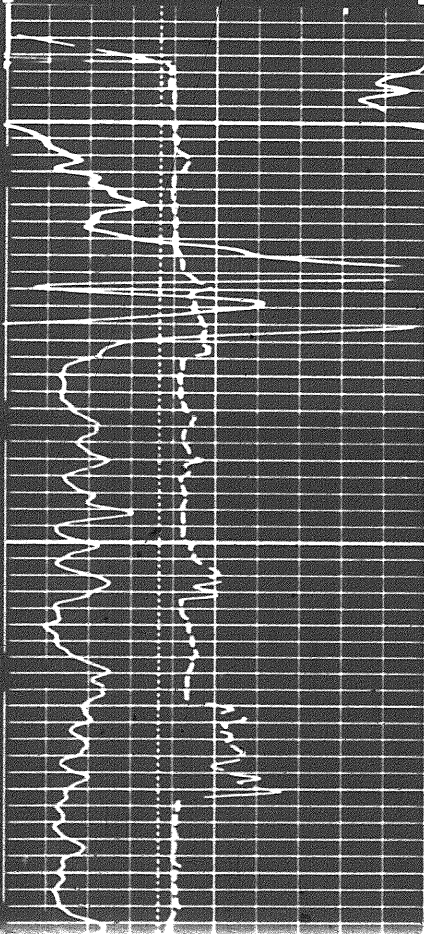
Sens. 100 T.C. 2
Zero 0 div. to left

0 100
100 200

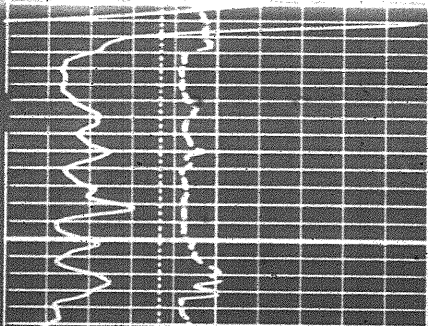
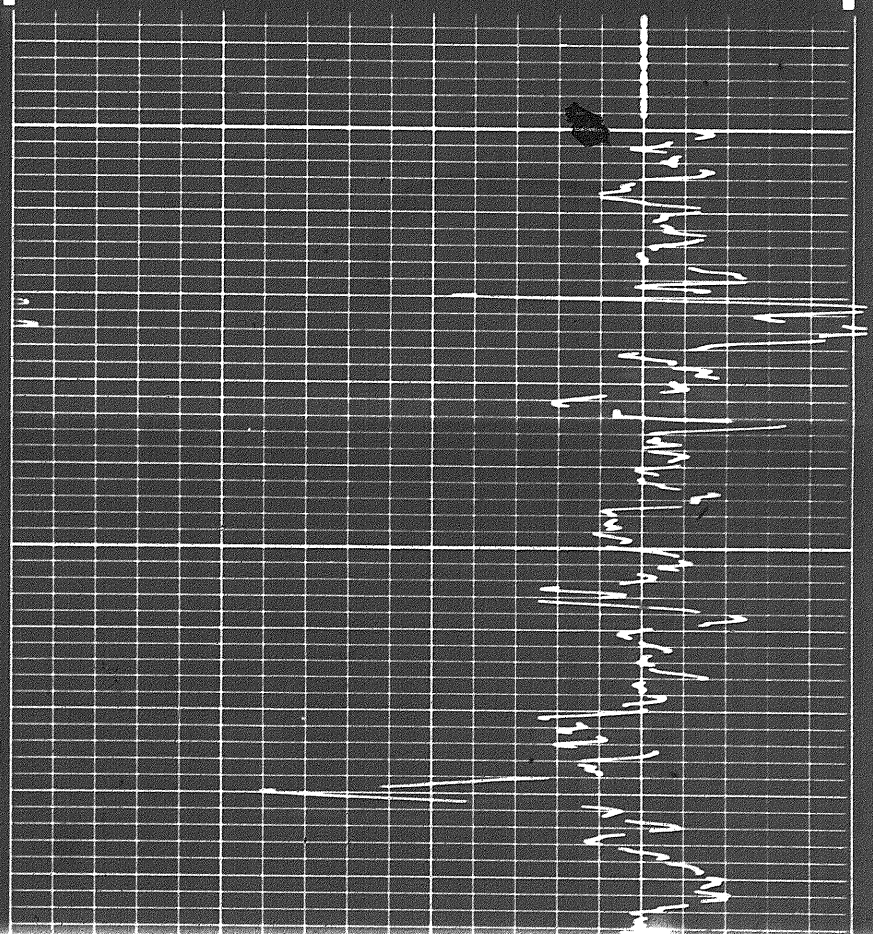
LIMESTONE

30 20 10 0 -10

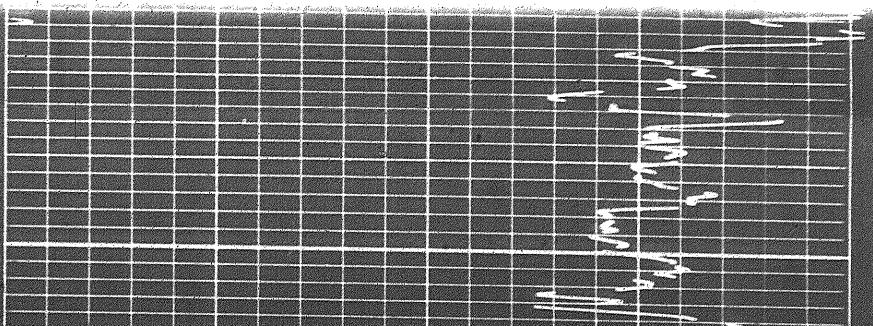
Speed in FPM

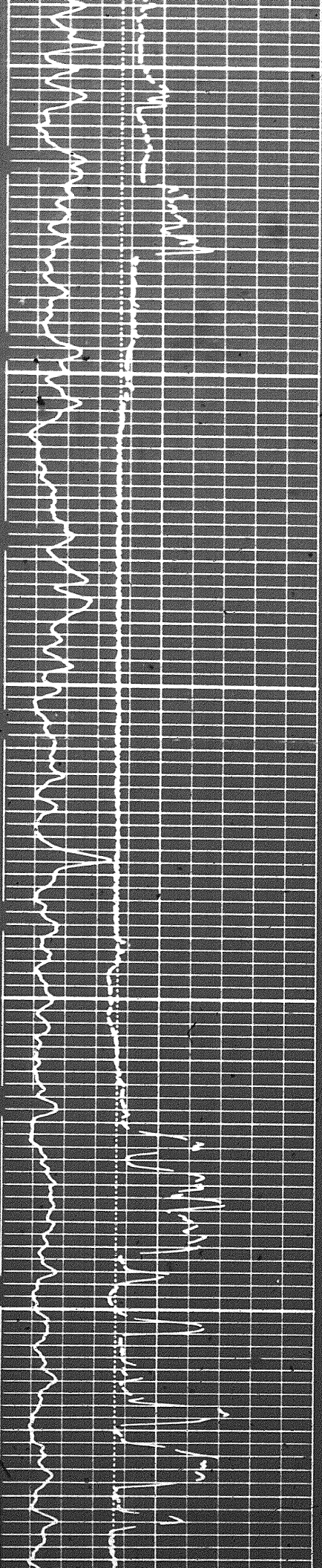


7500



7500

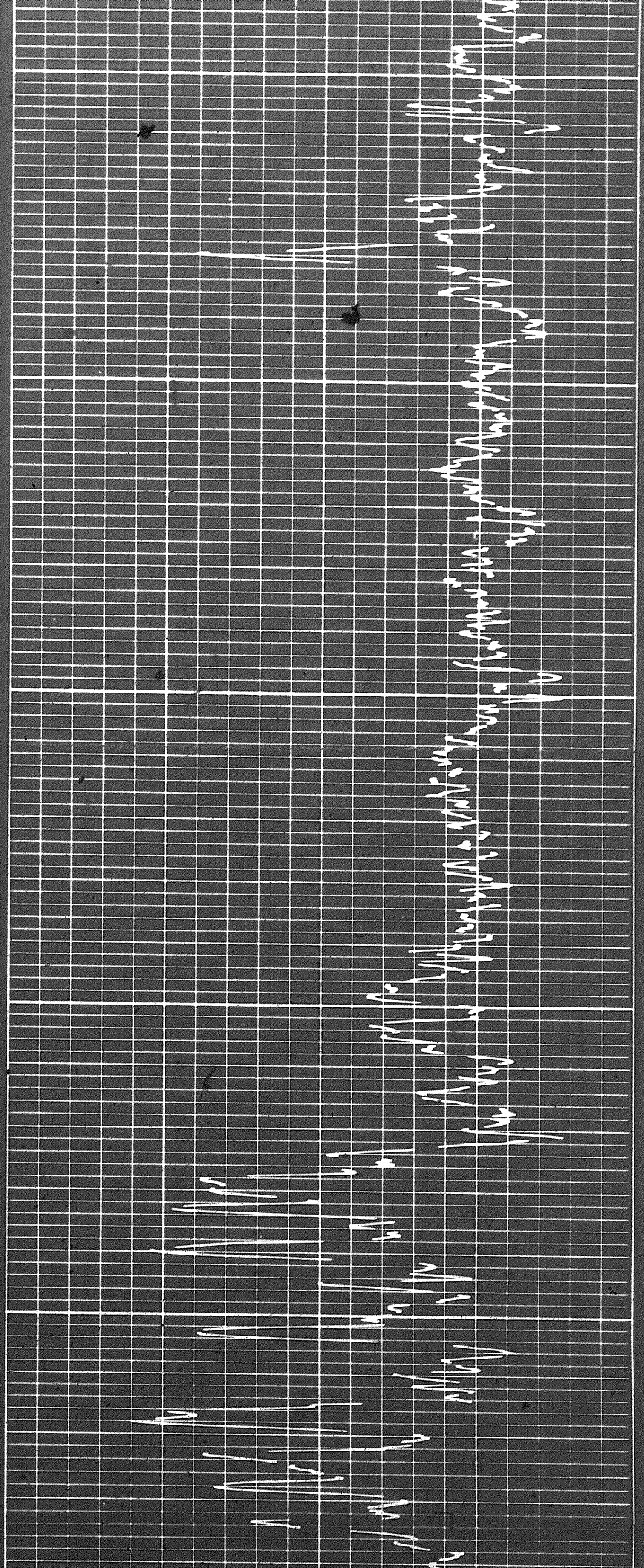




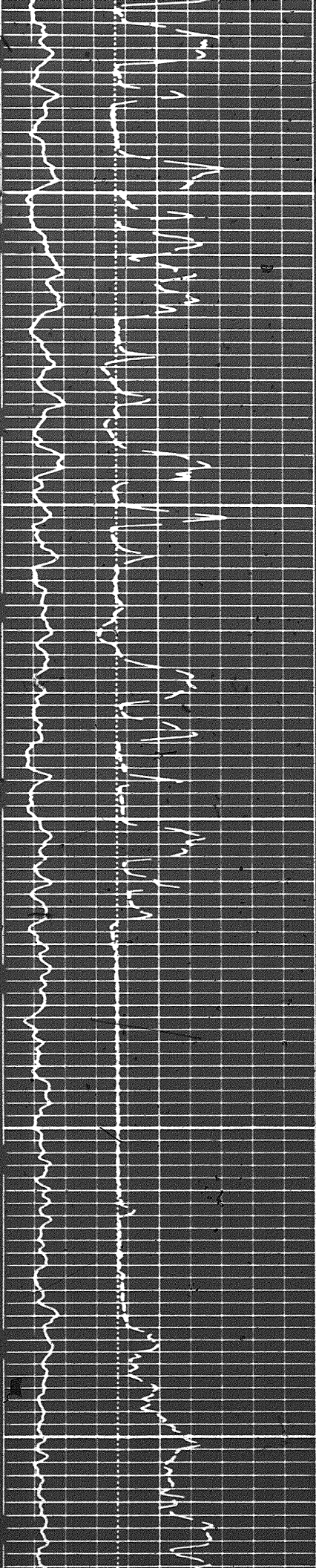
7600

7600

7700

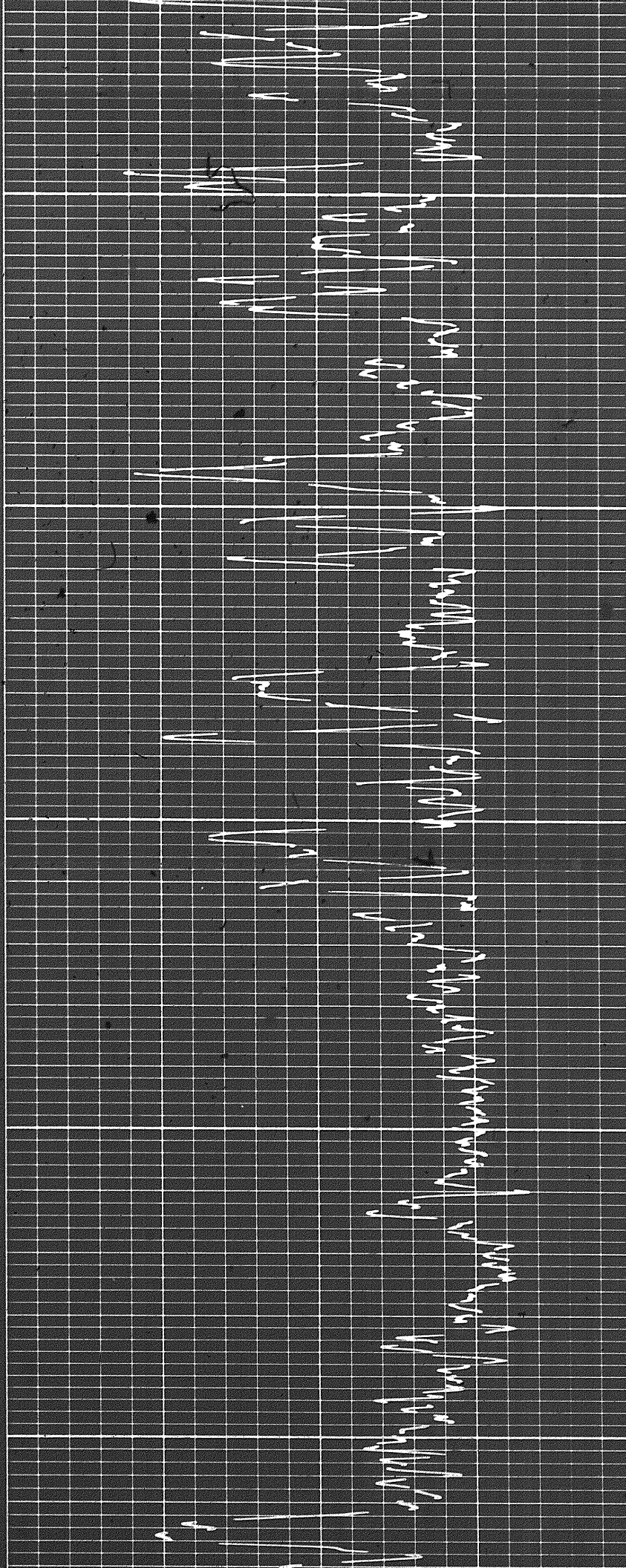


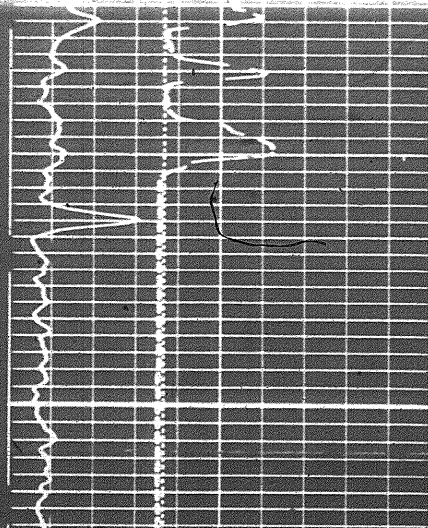
1001



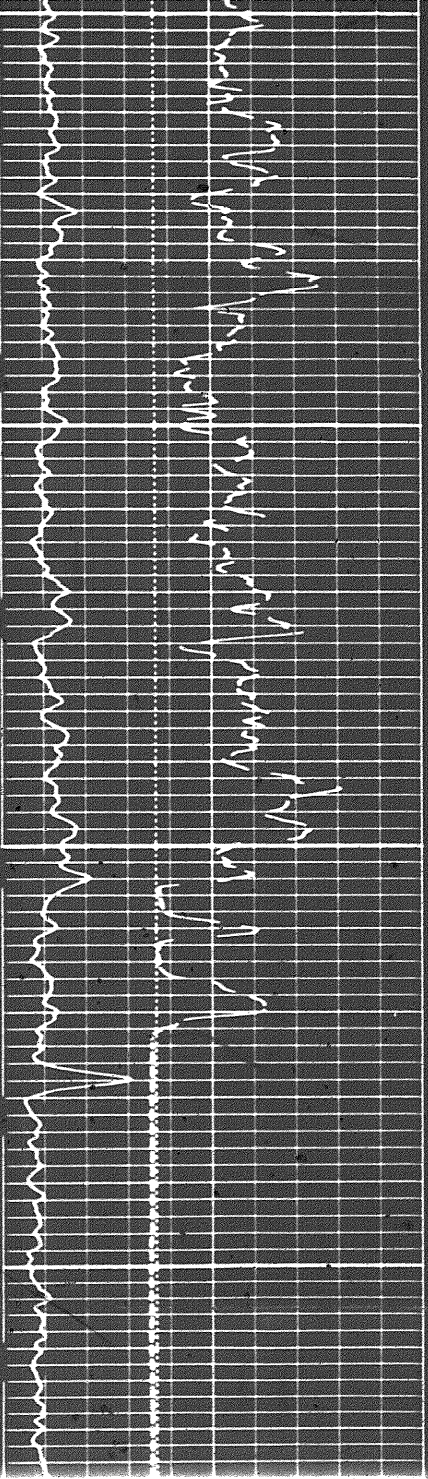
7000

7900

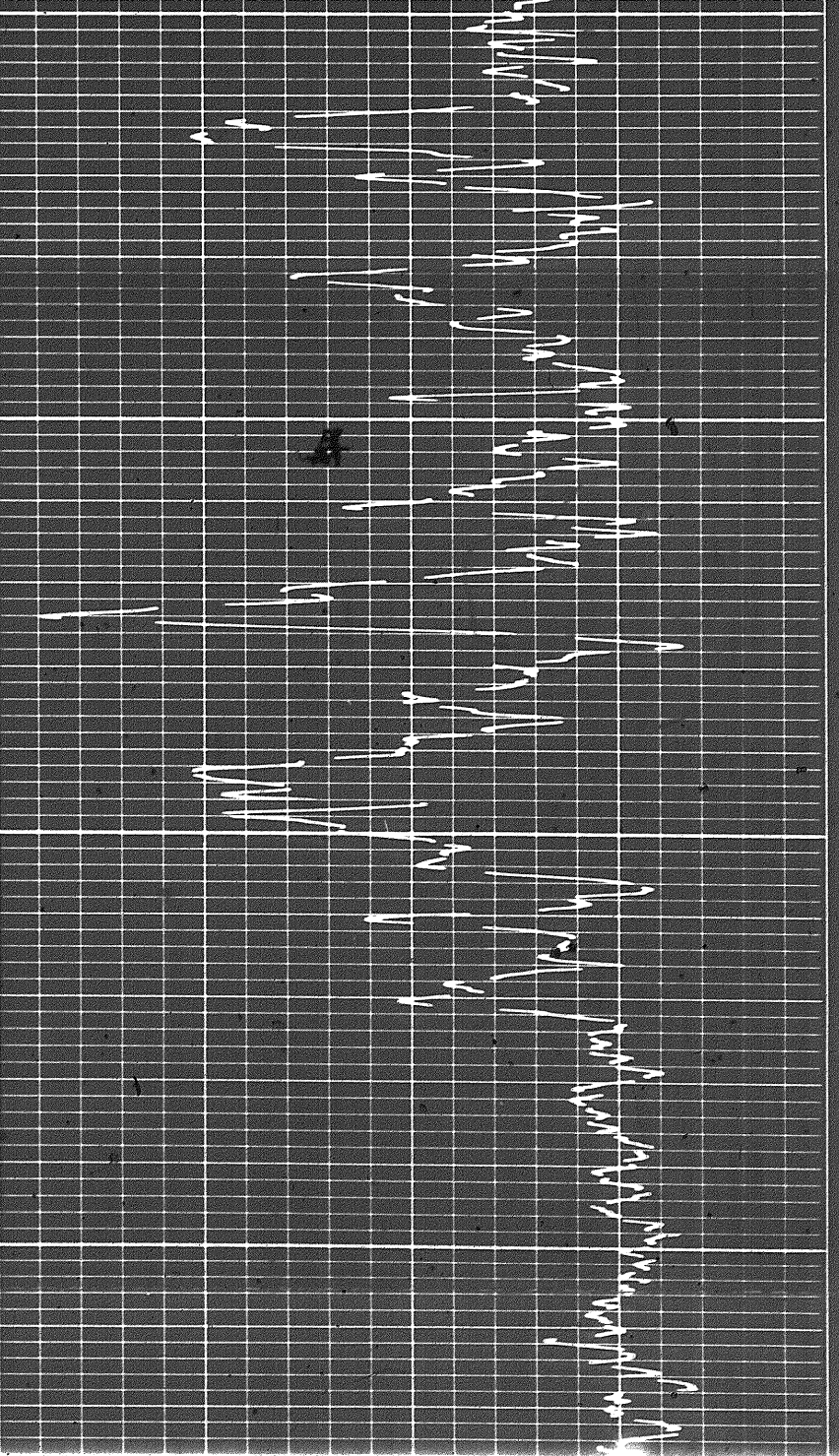
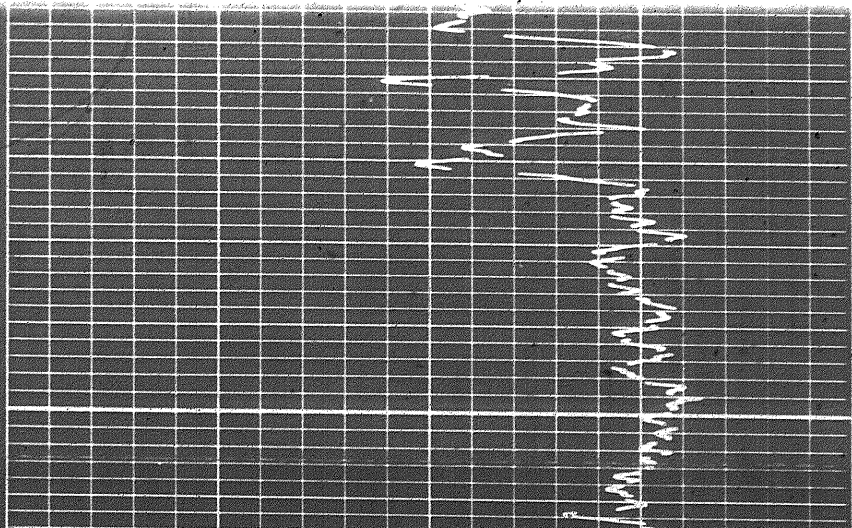


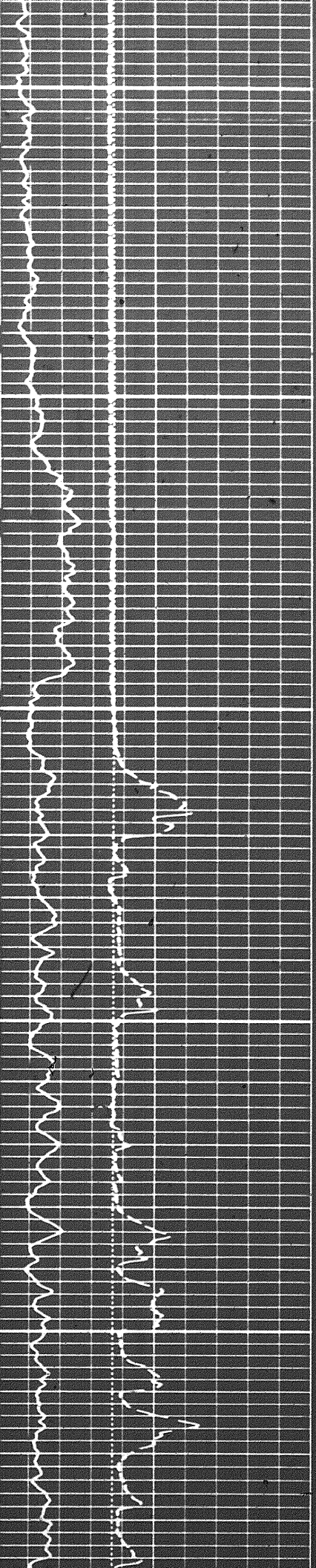


0018



0008

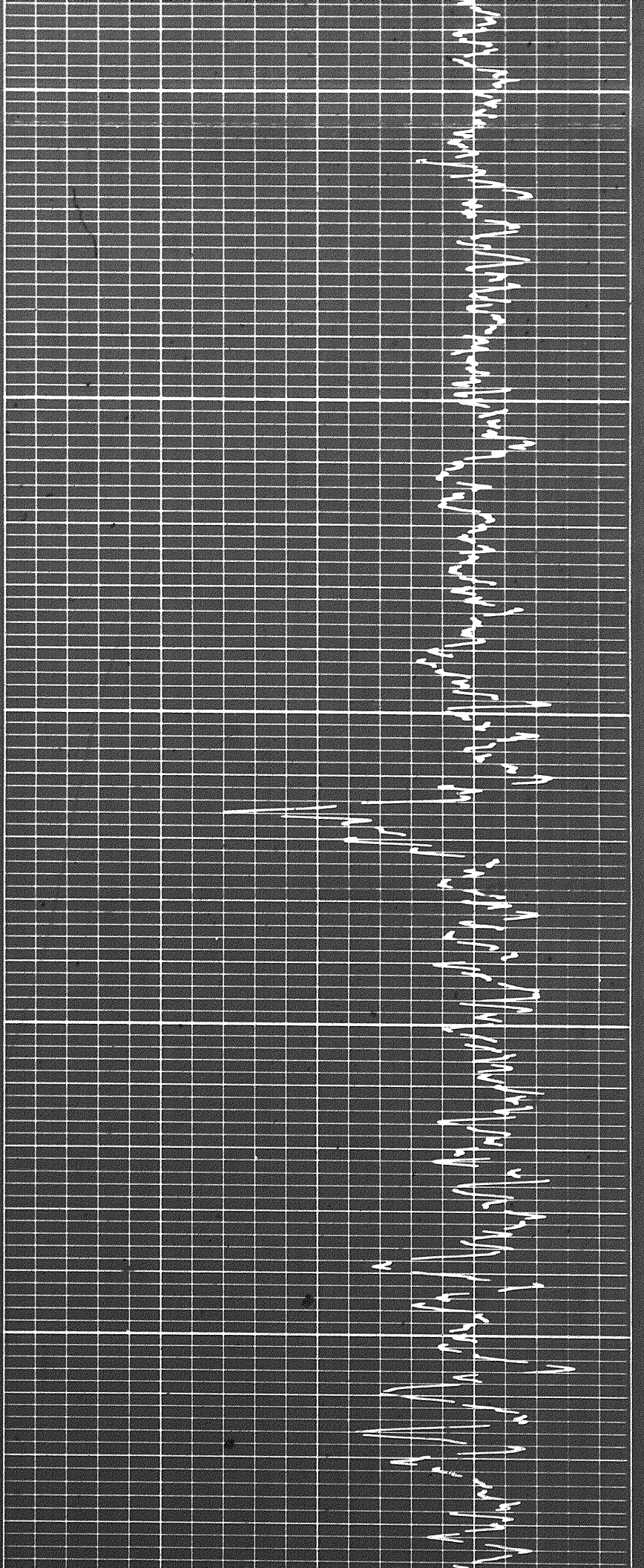




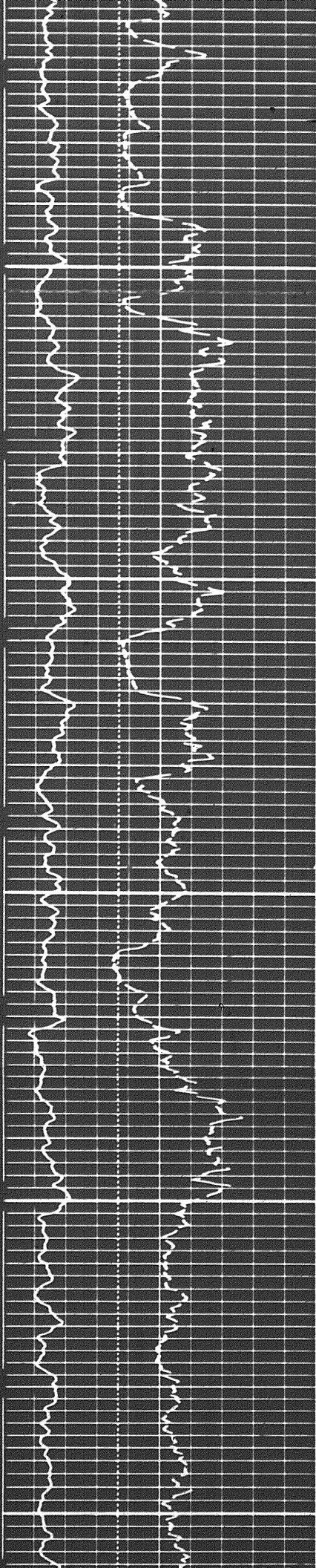
8100

8200

8300

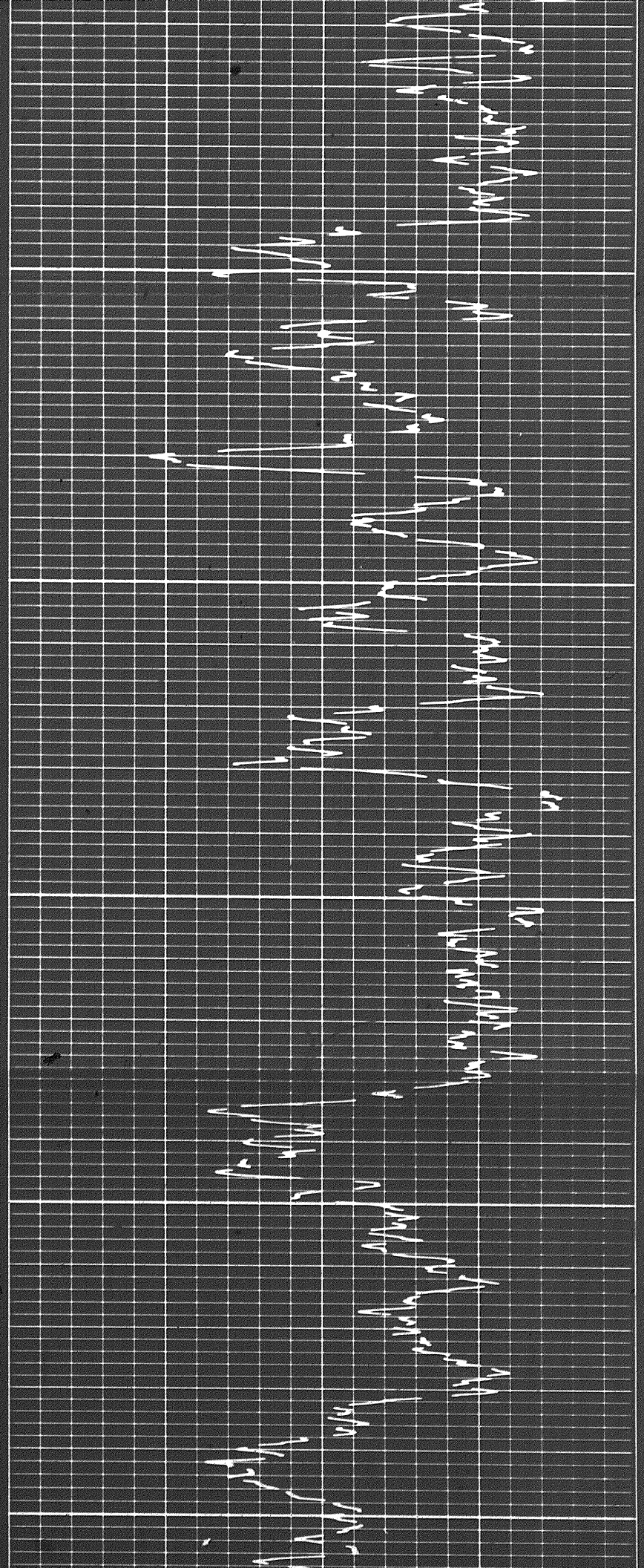


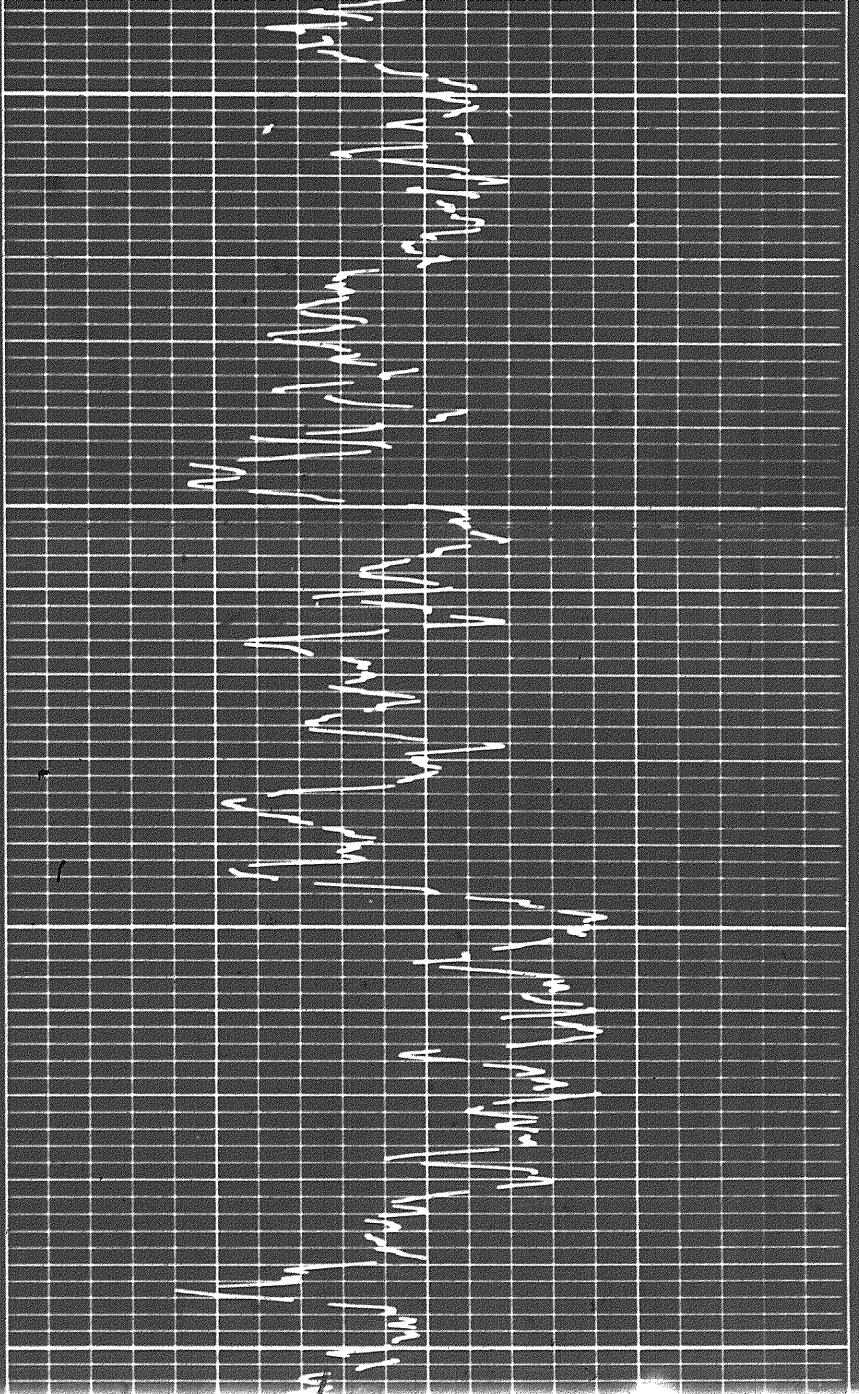
1904



8400

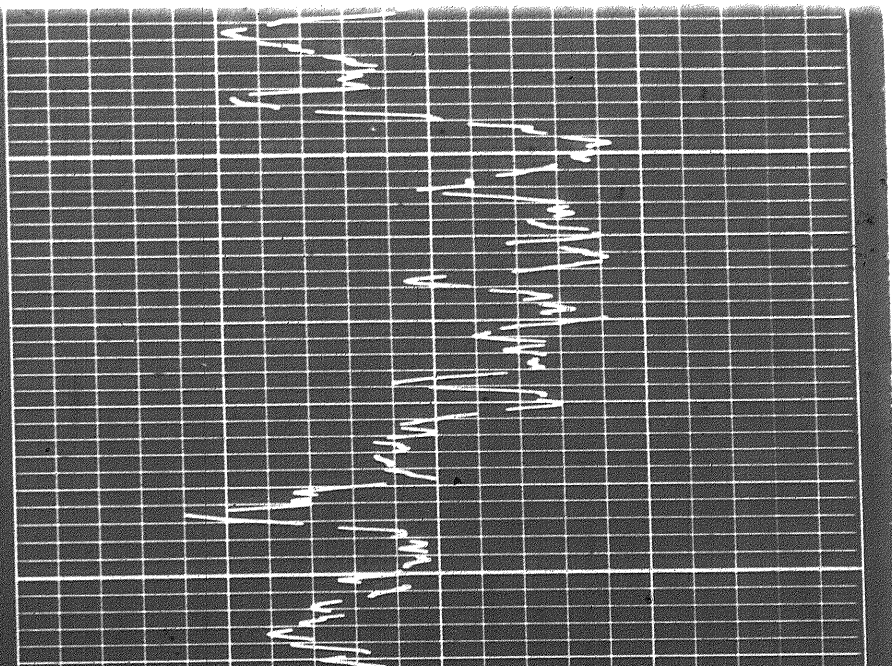
8500



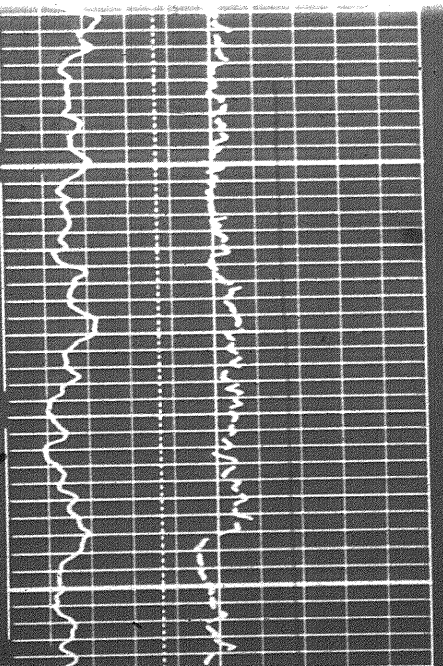
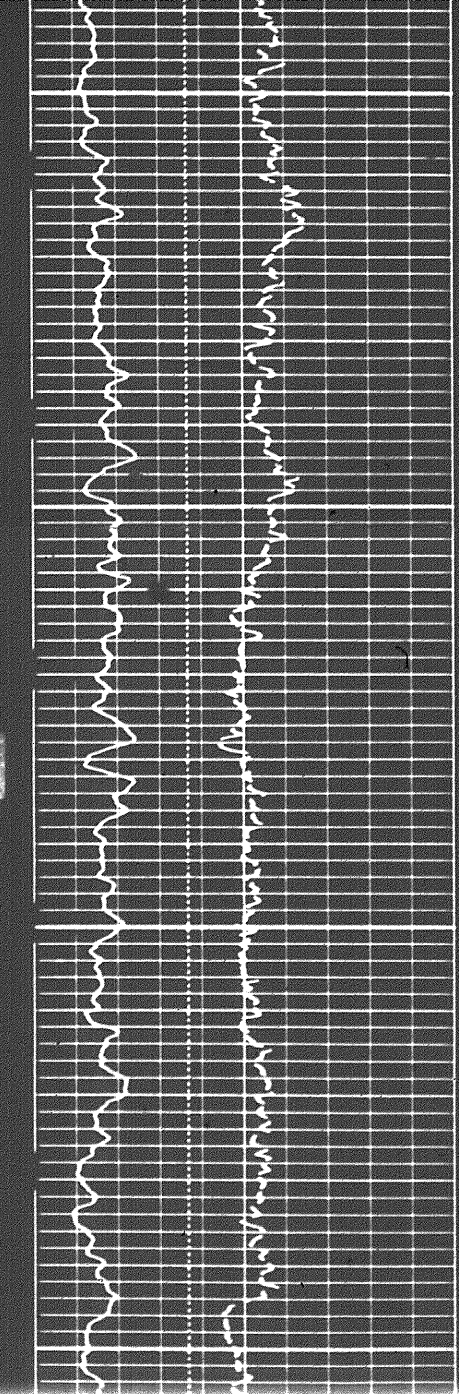


8600

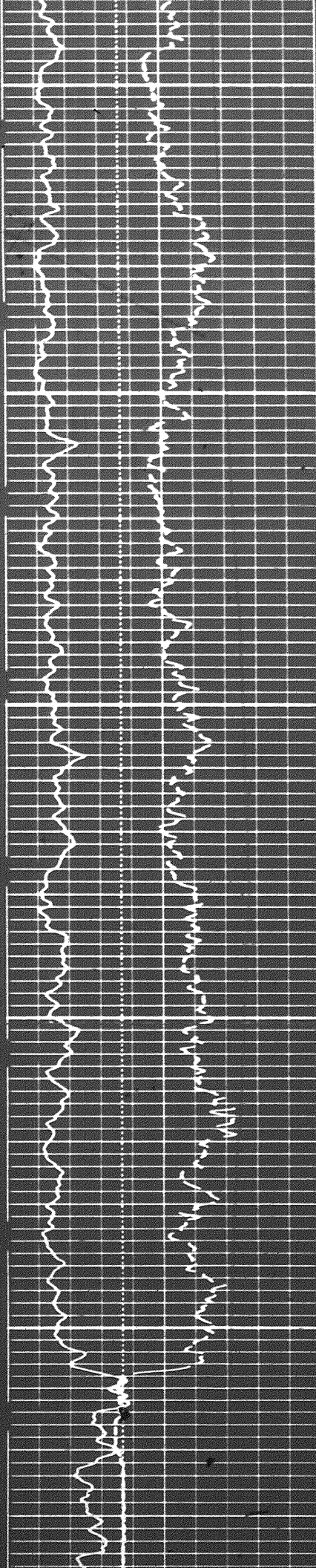
8700



8700



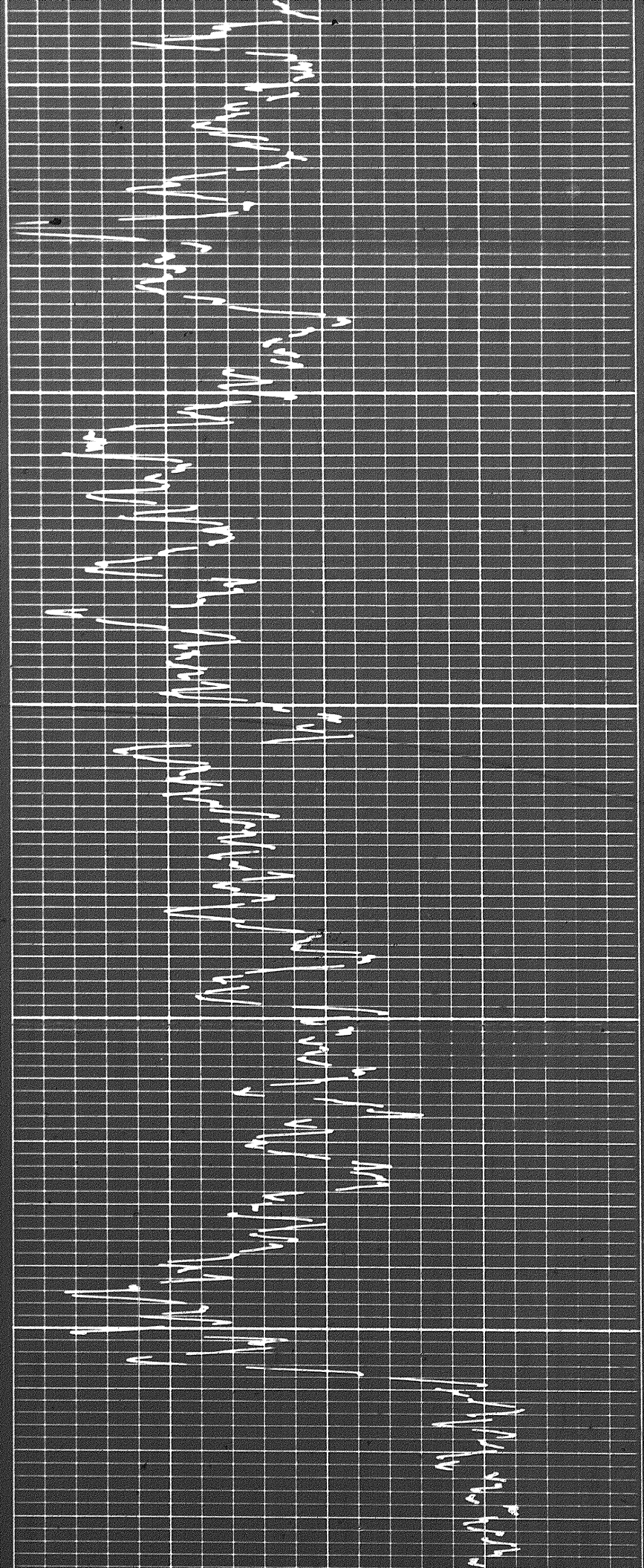
2006



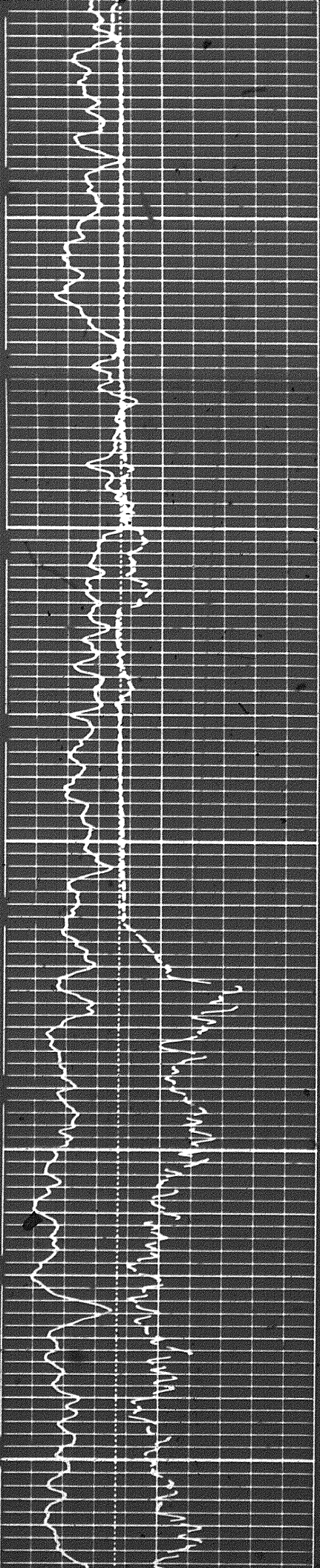
0018

0088

0068

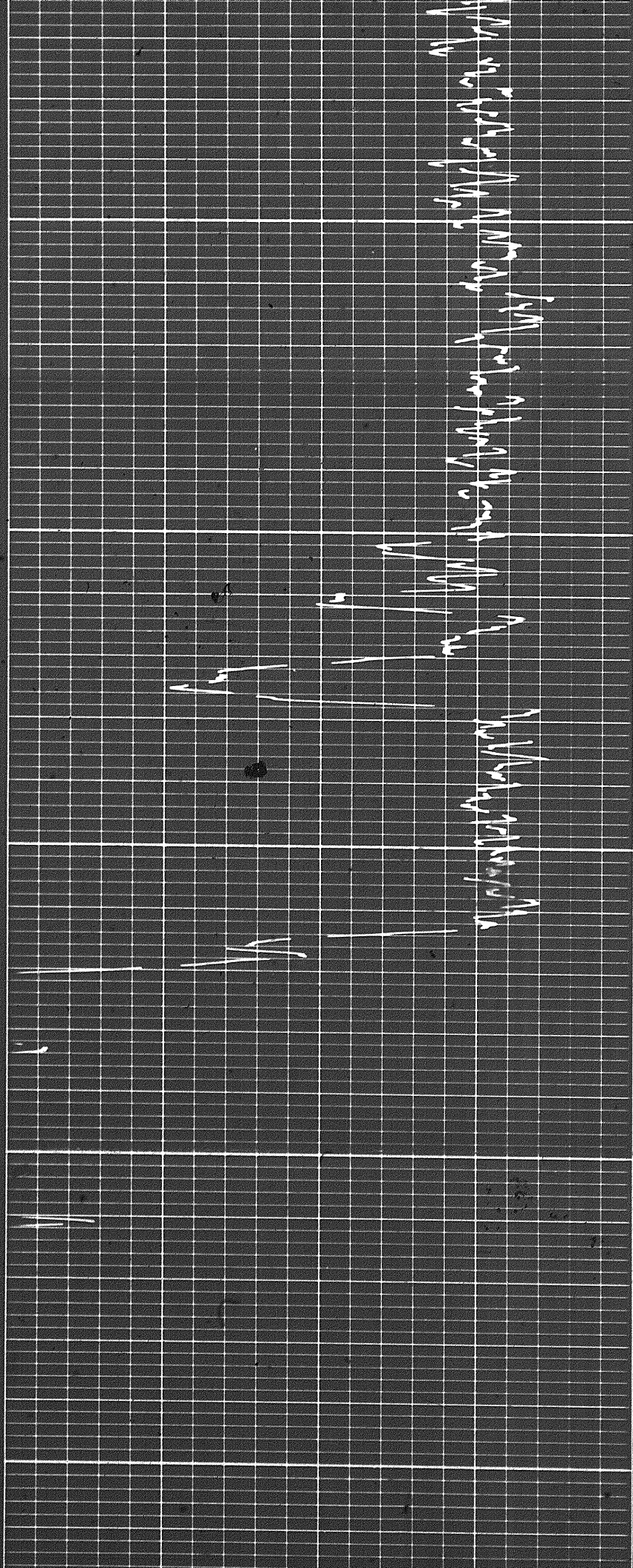


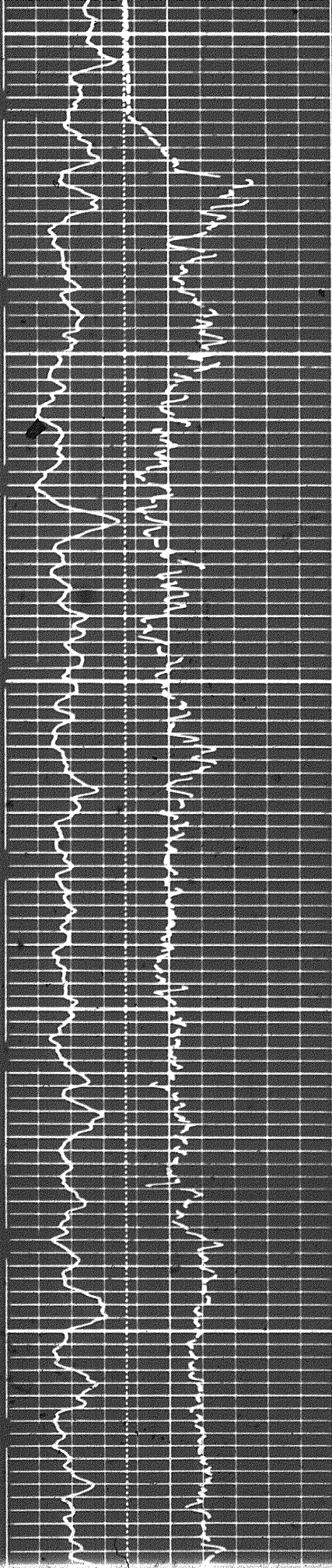
20 of



0.008

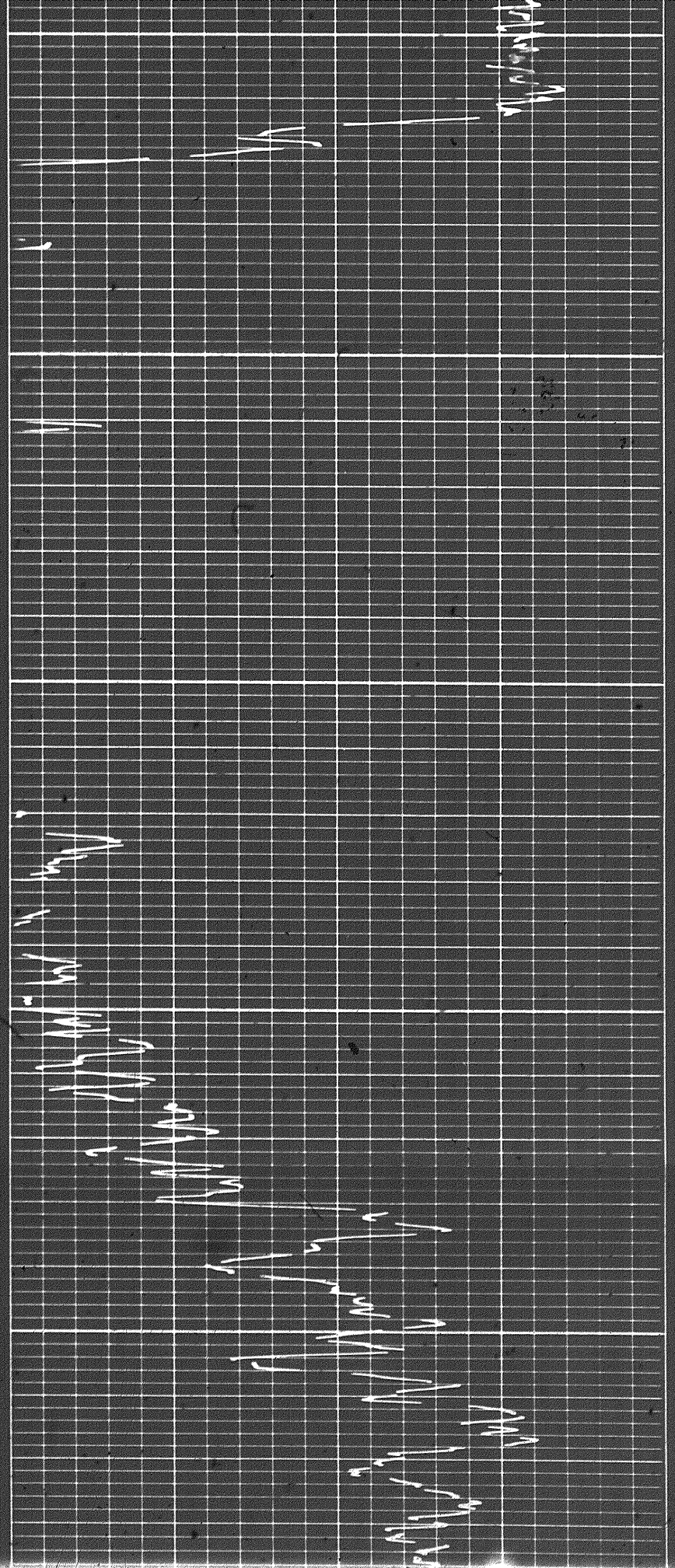
0.016



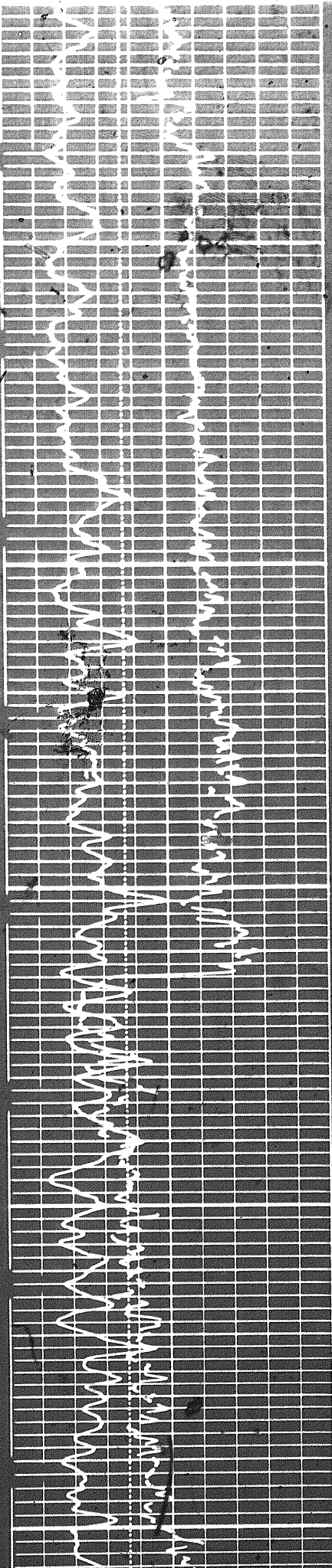


0100

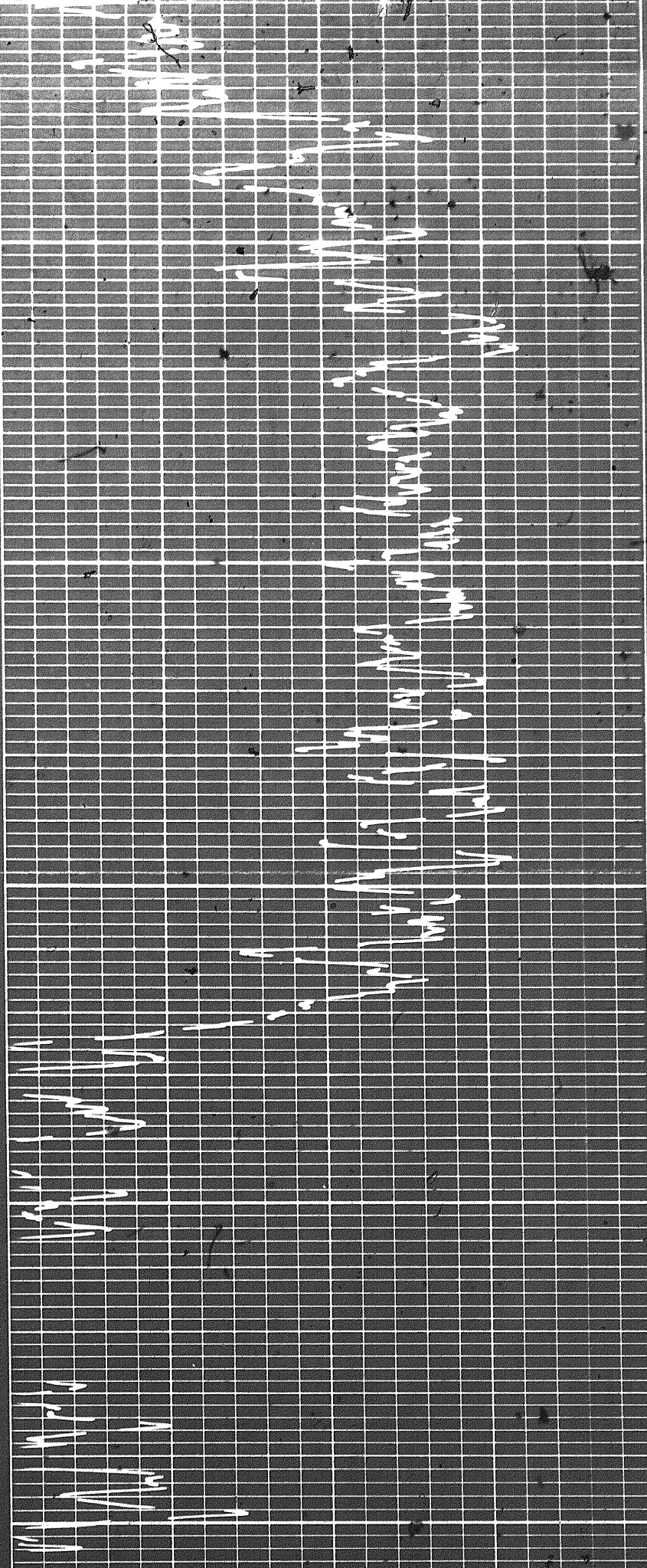
9200



0100

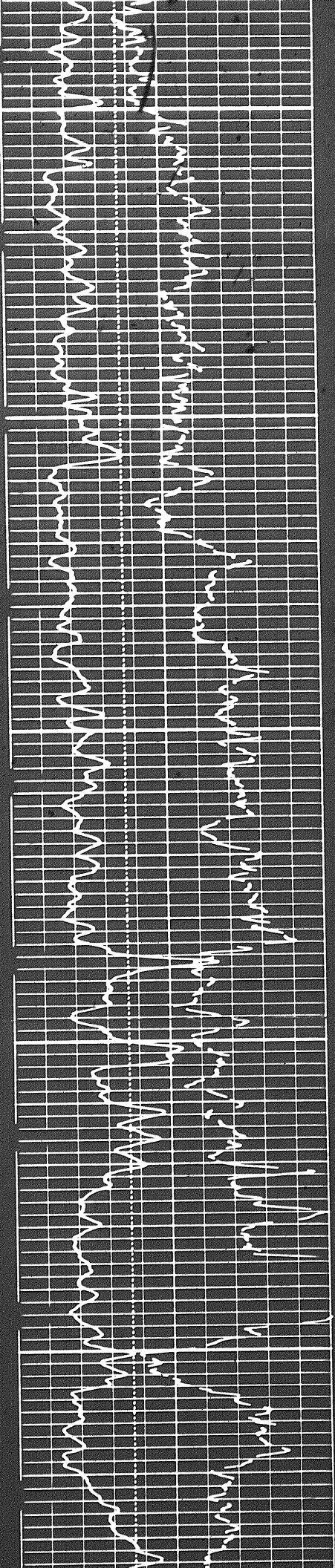


9300

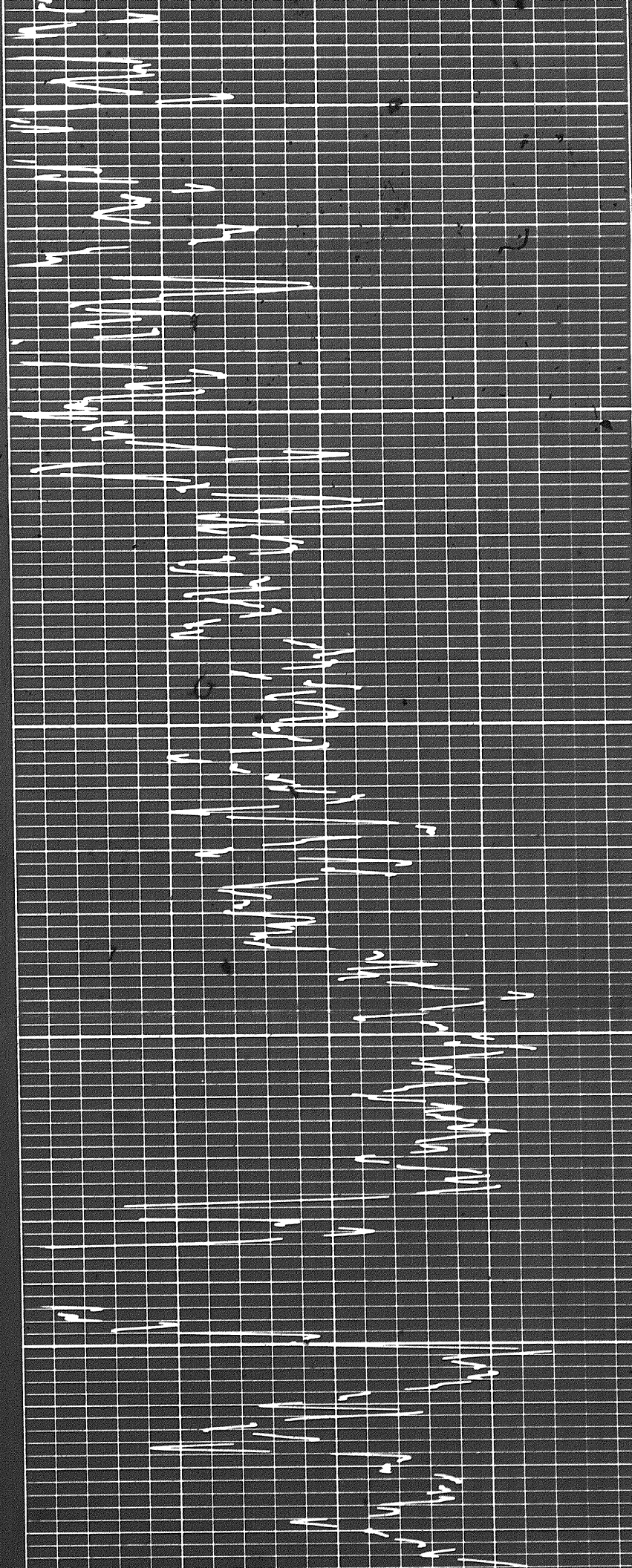


9400

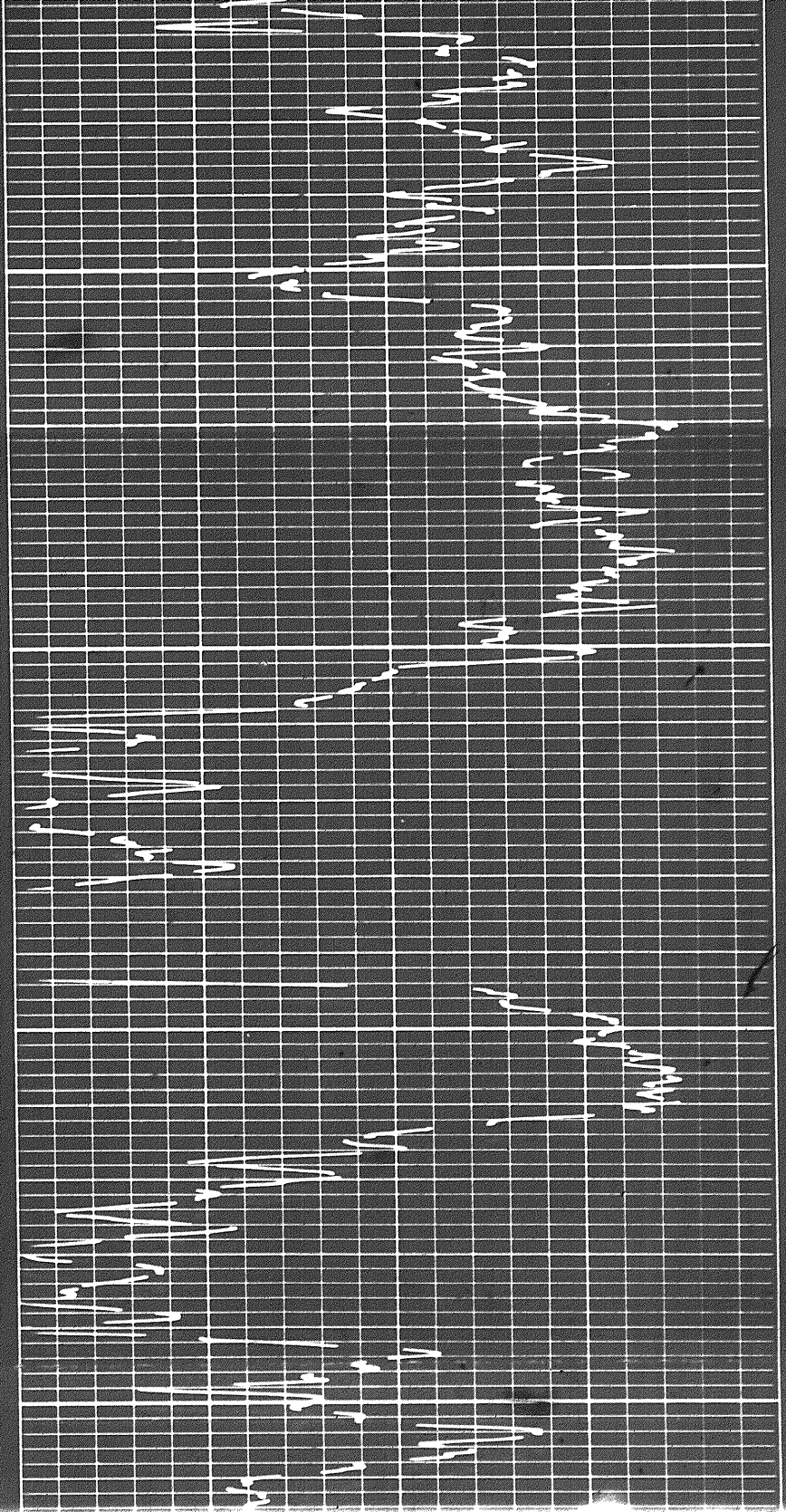
2107



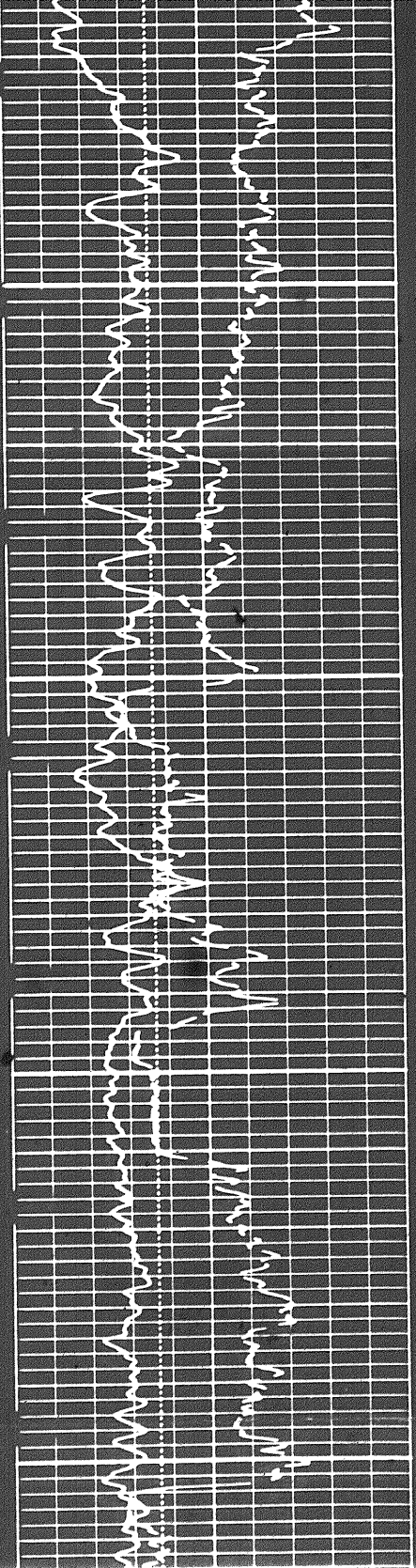
0036



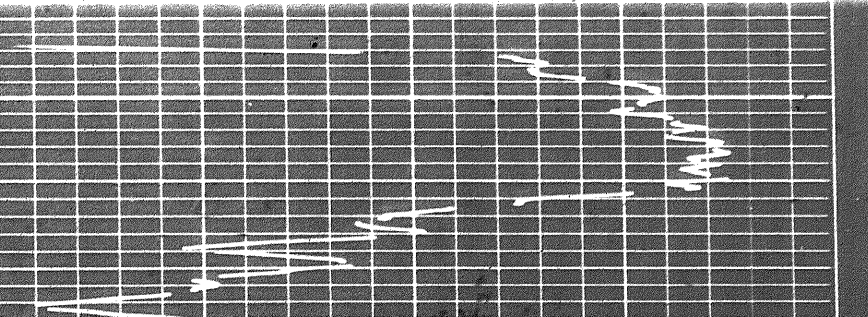
0096



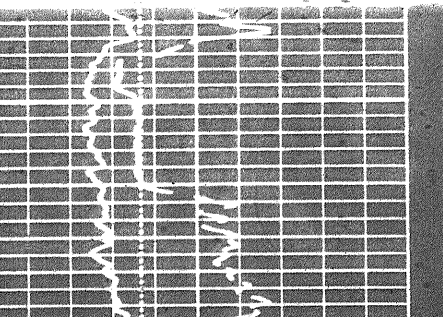
9700

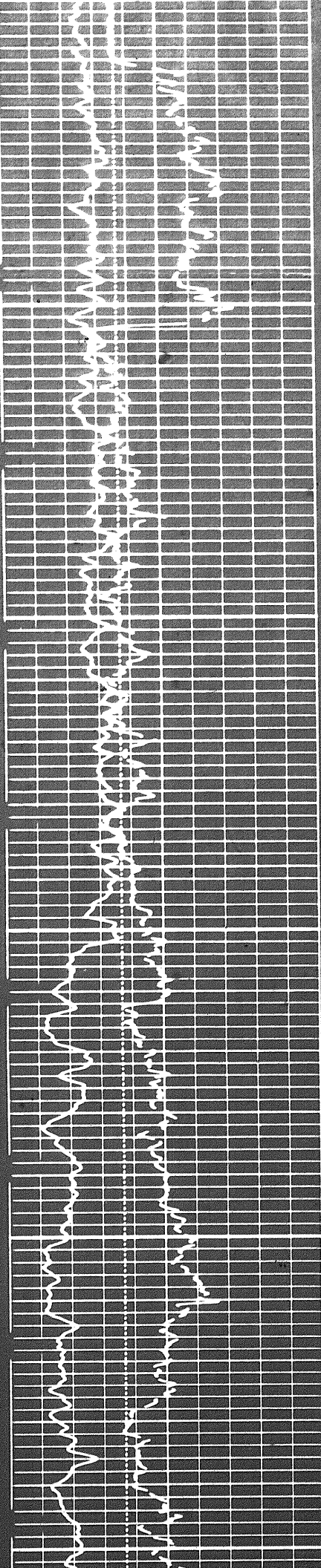


9800



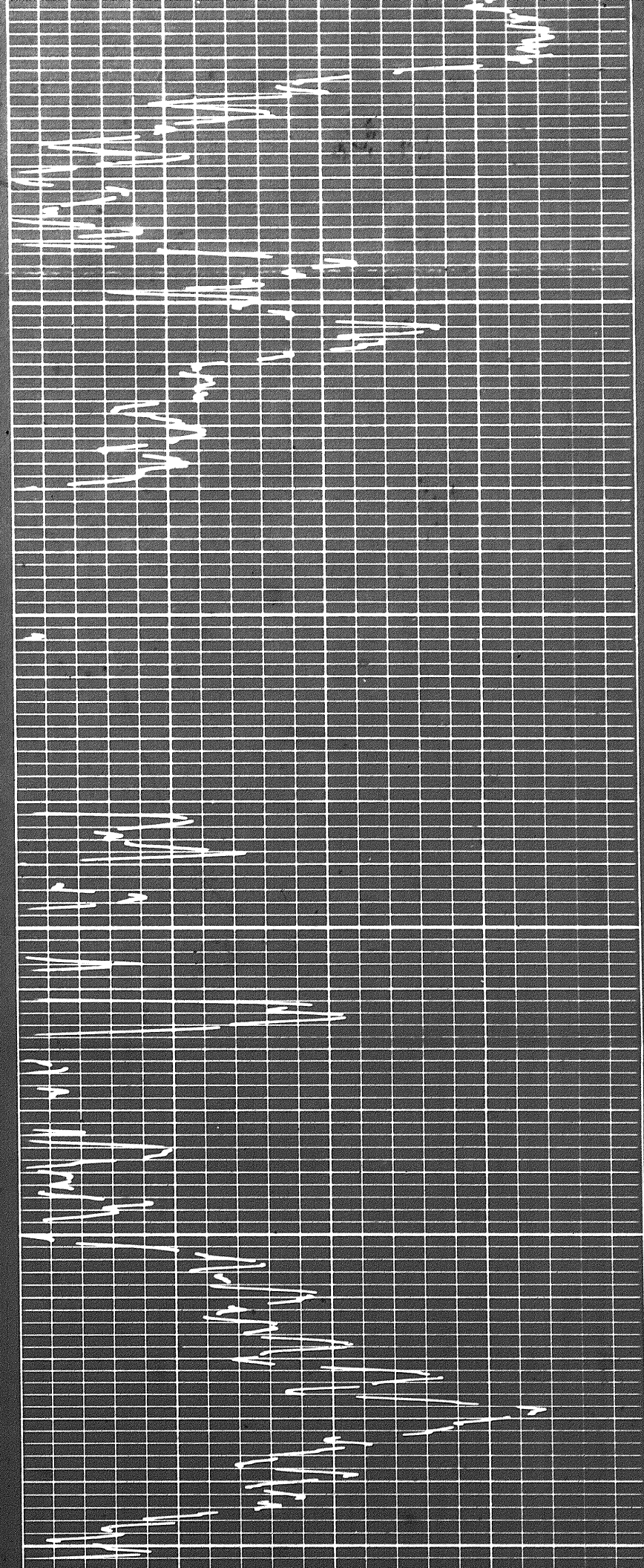
9800



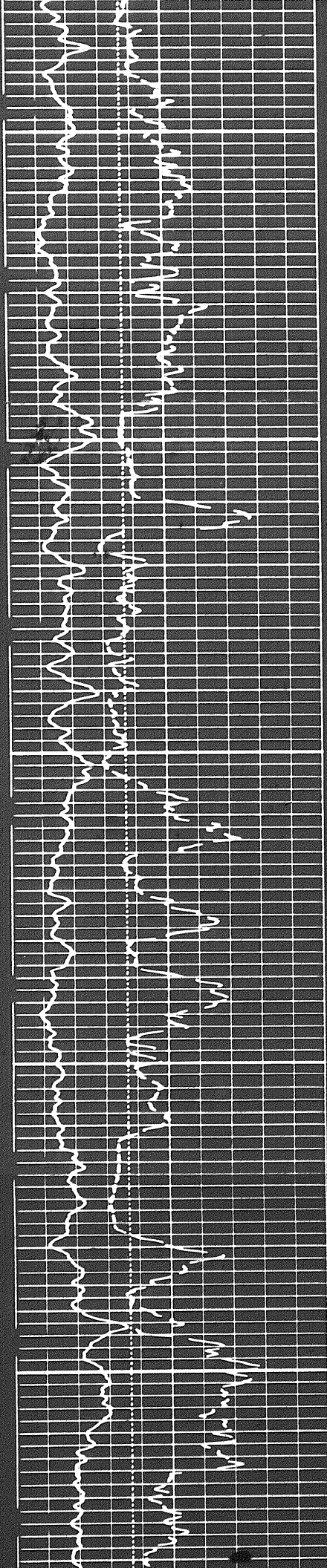


0066

10000

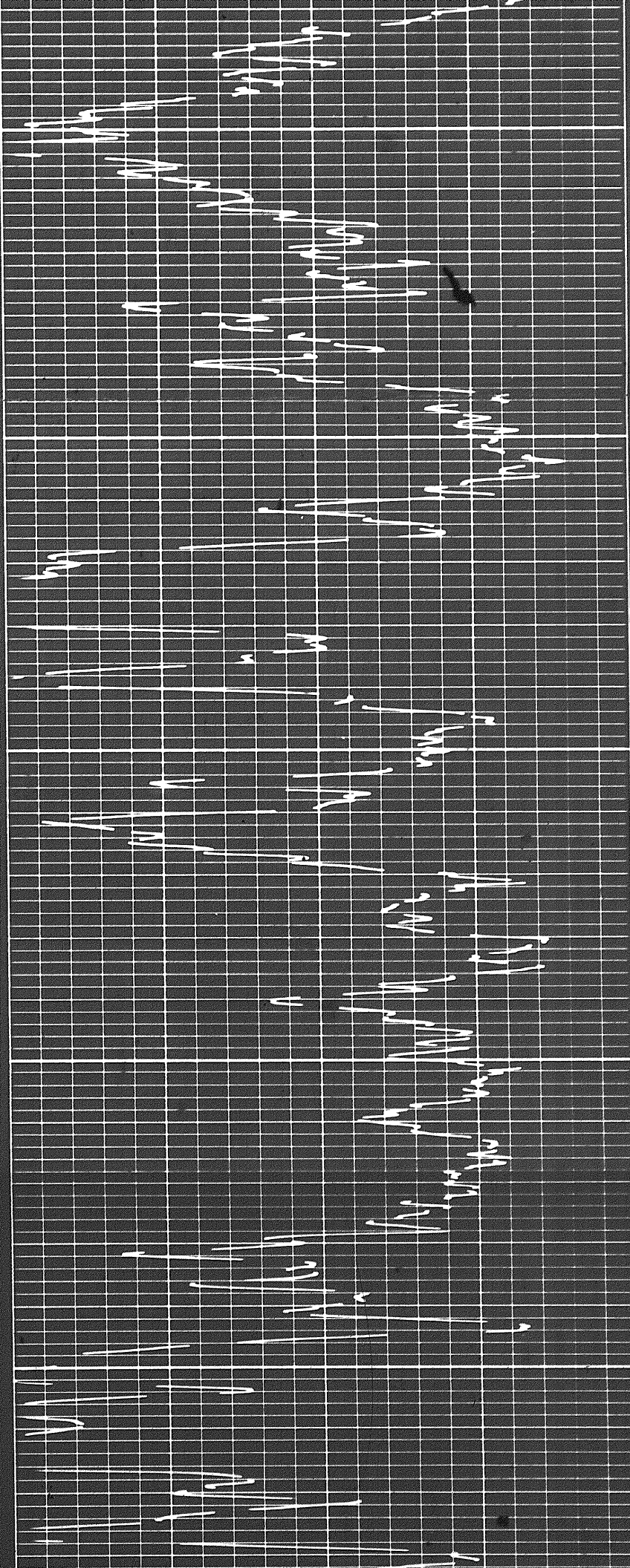


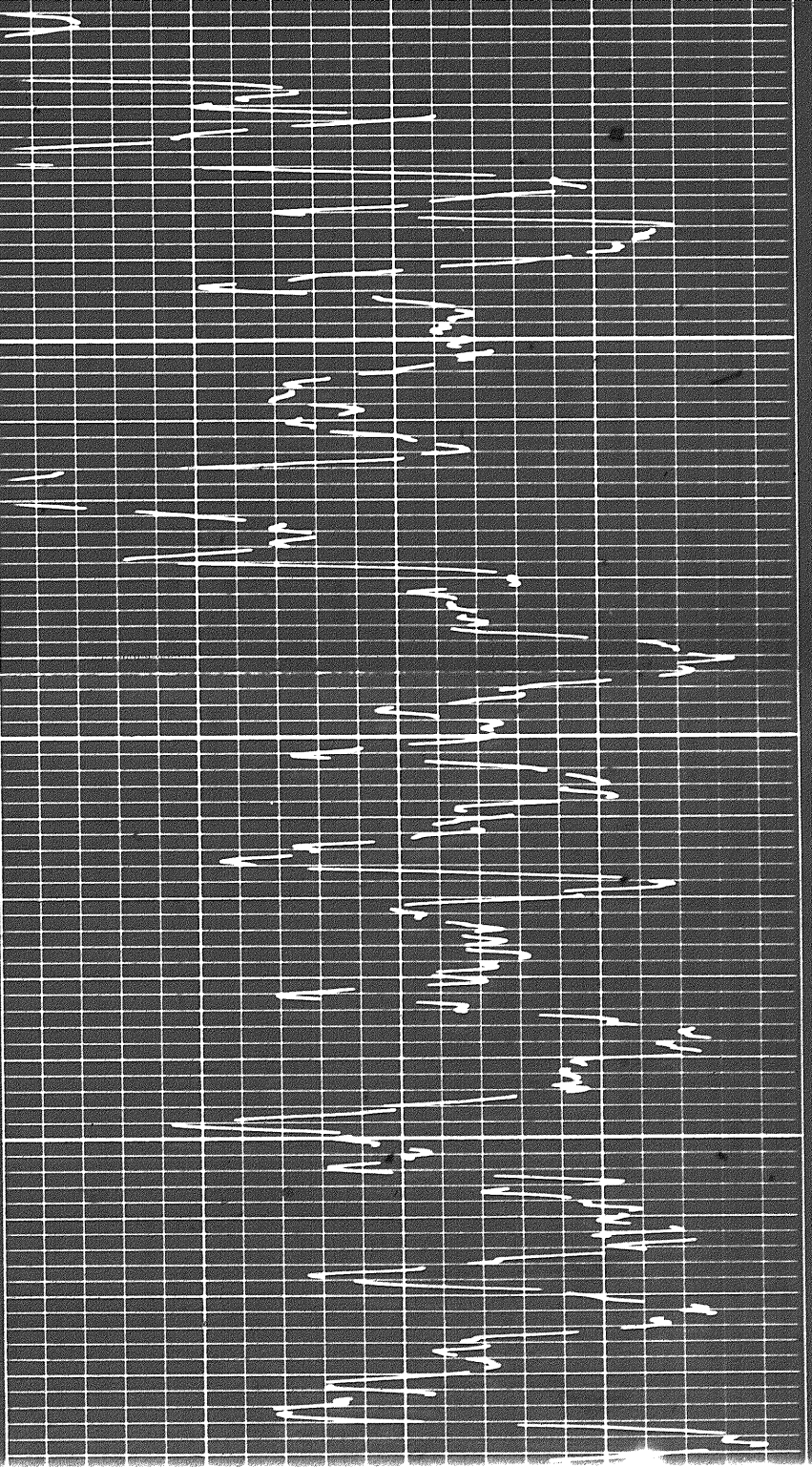
2204



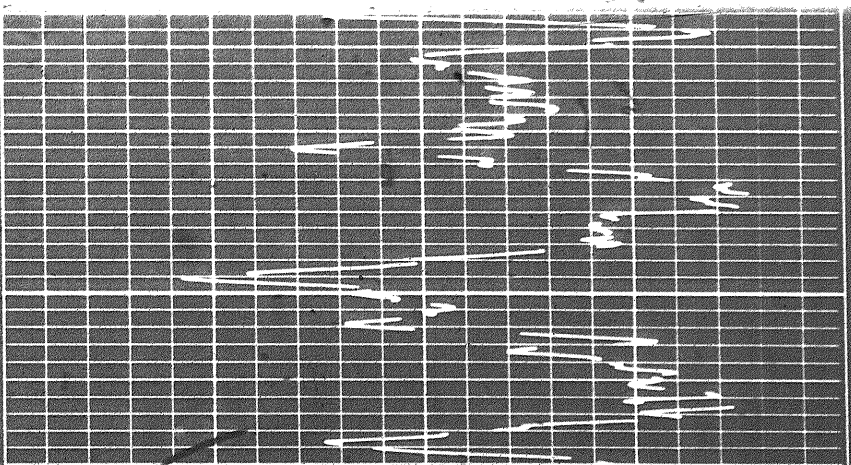
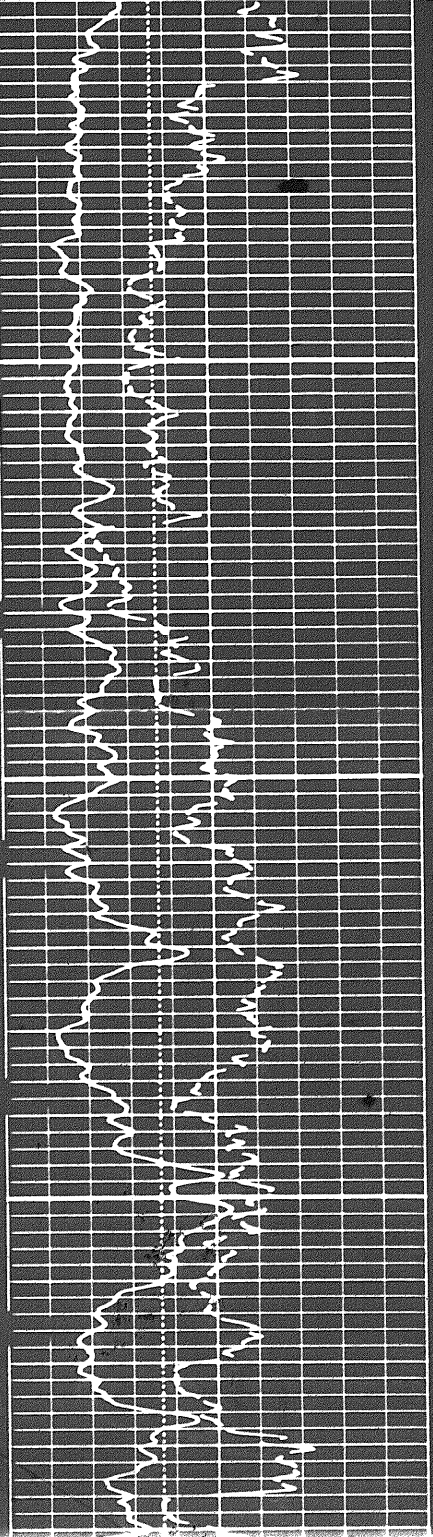
10100

10200

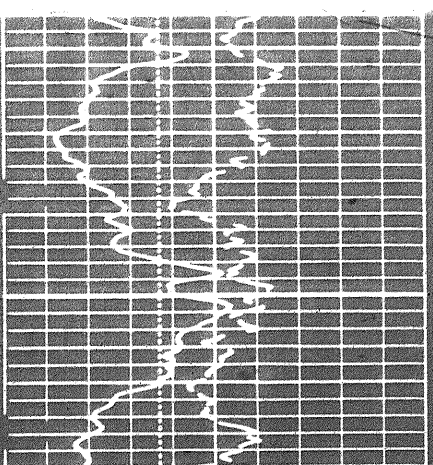


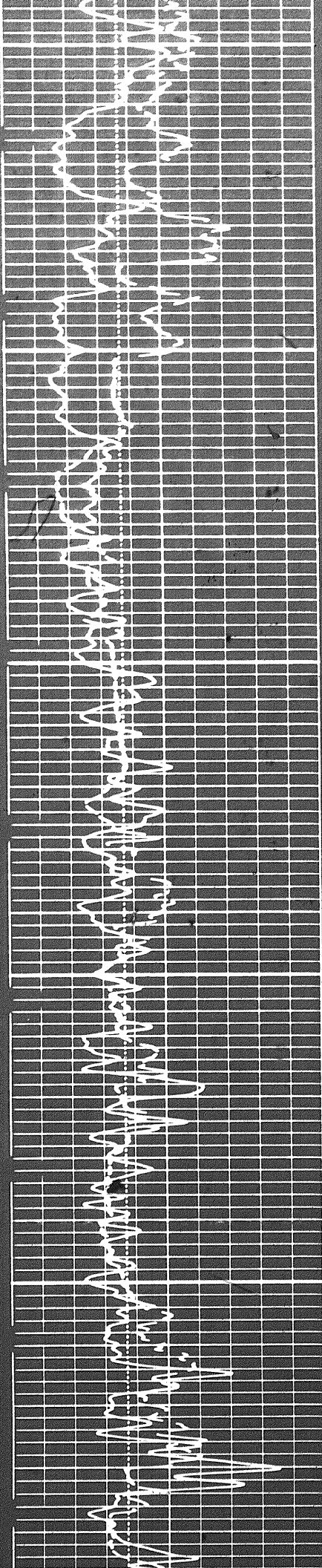


10300



10400

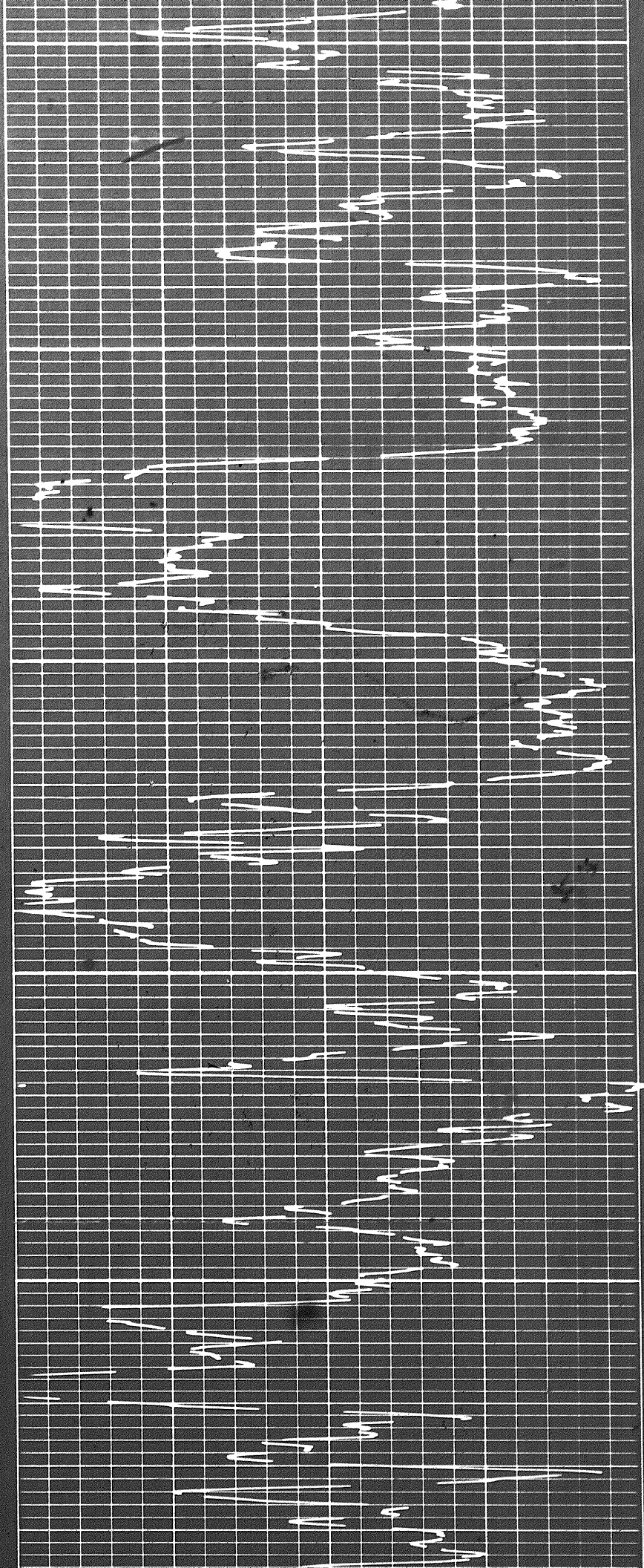




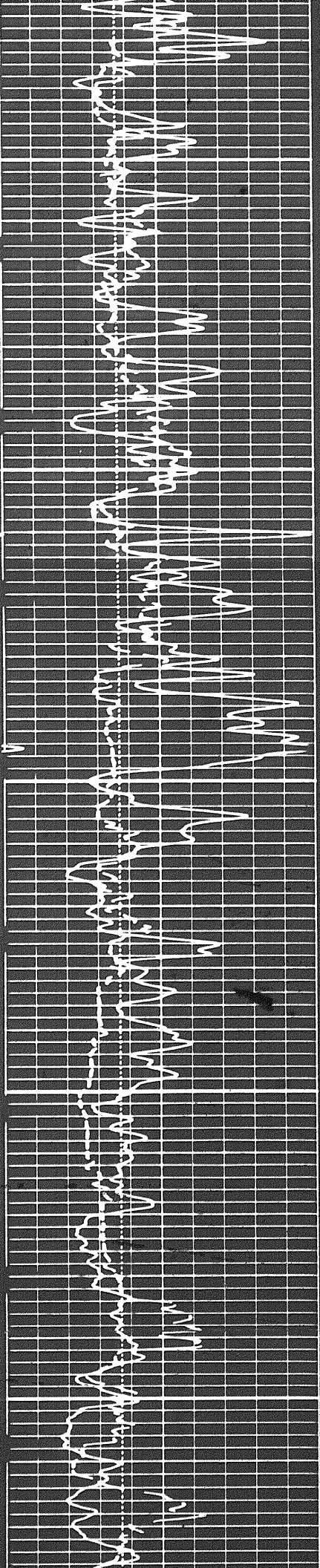
10400

10800

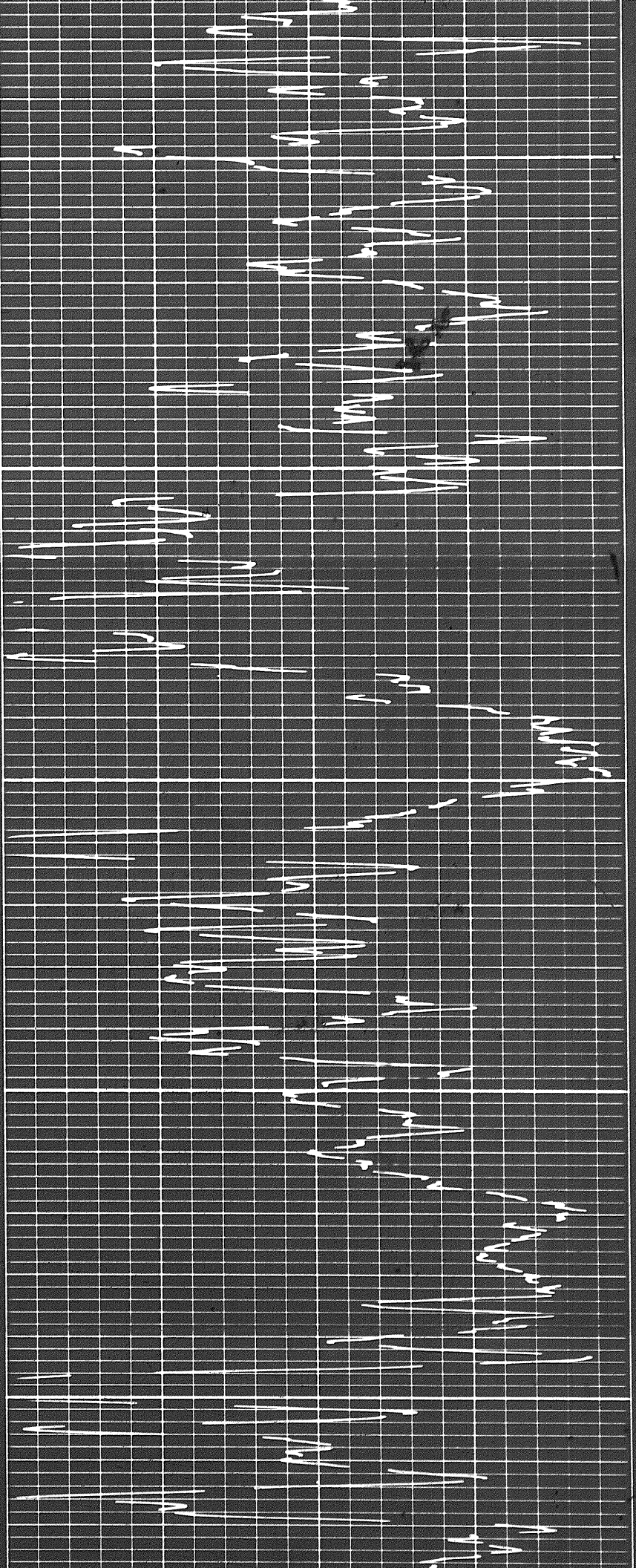
10600



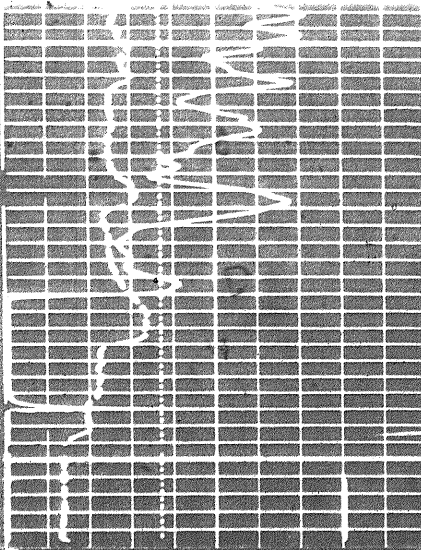
23 of



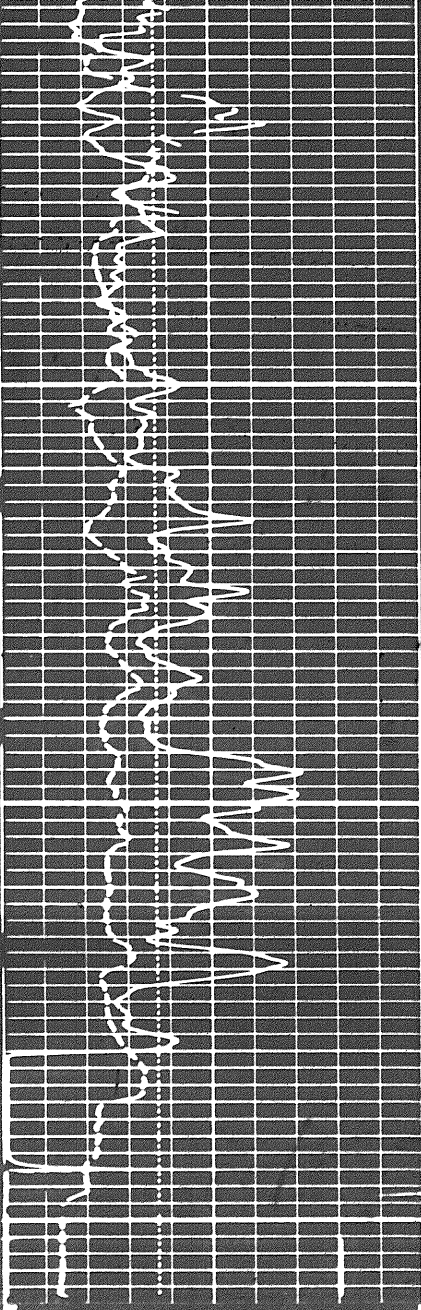
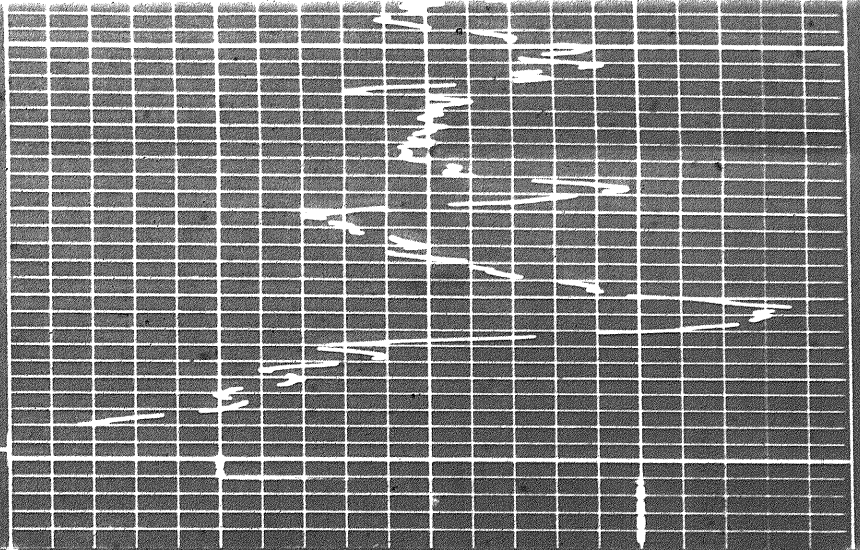
10700



10800

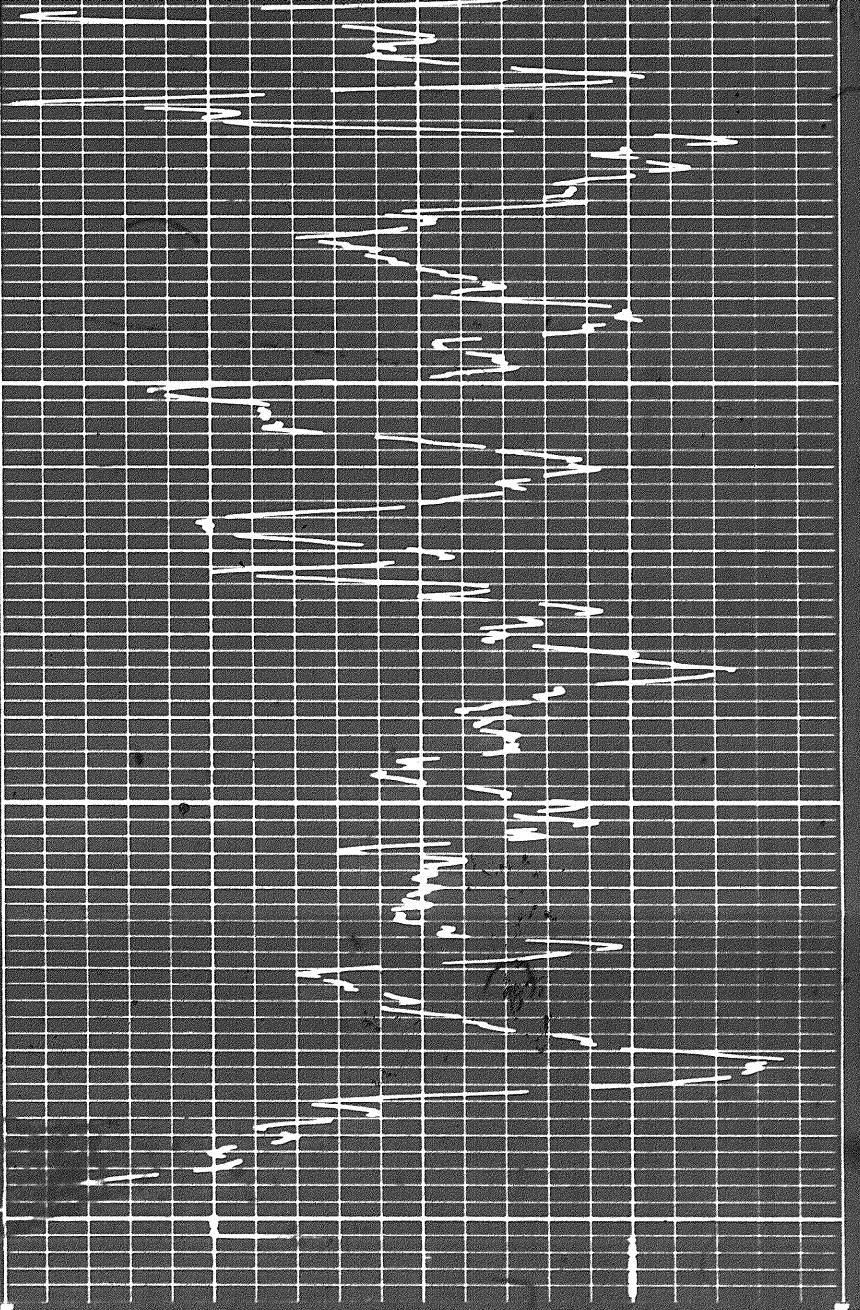


1.000
R



1.000
R

109000



1000

Sens. 100 T.C. 2
 Zero 0 div. to left
 0 100
 100 200

GAMMA RAY
API UNITS

6 7 8 9 10 11 12 13 14

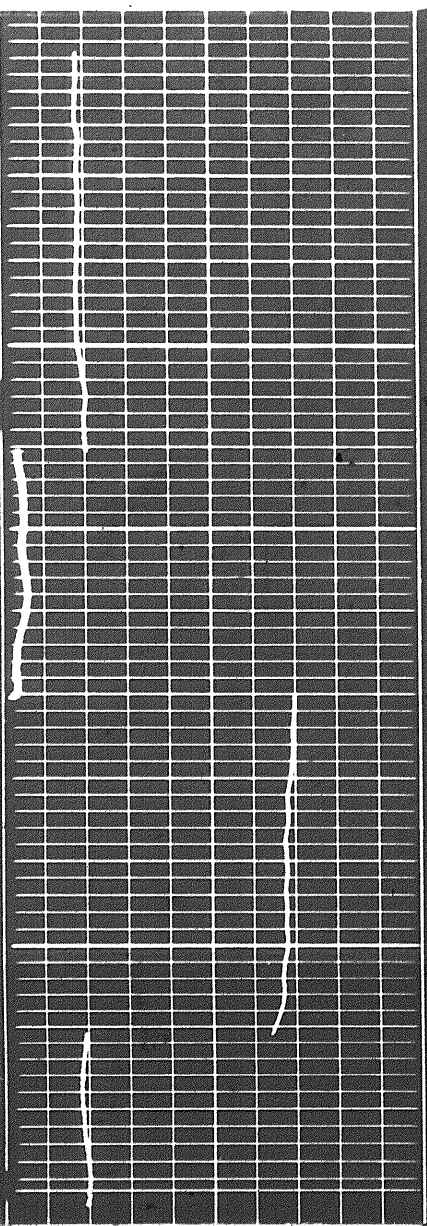
Speed in FPM

30 20 10 0 -10
LIMESTONE

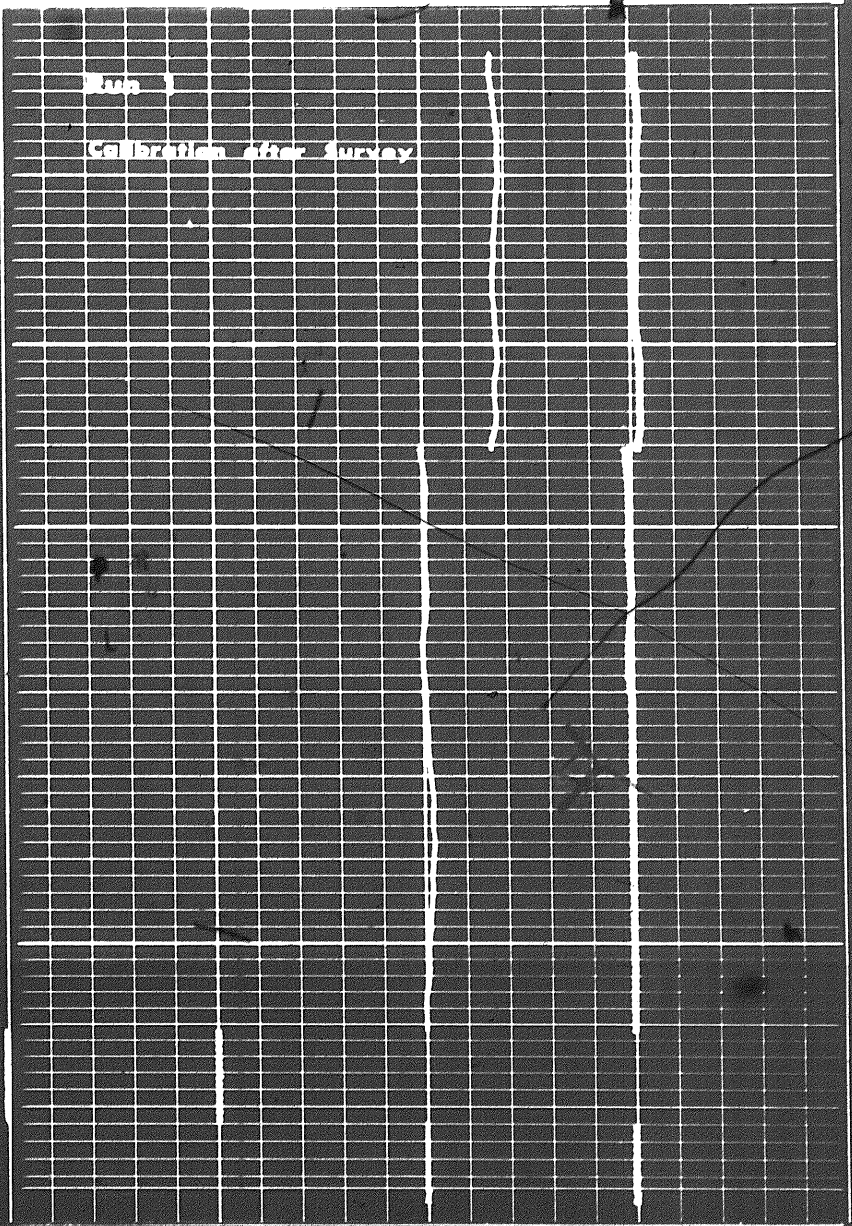
CALIPER
 hole diameter in inches

DEPTHS

POROSITY (%)



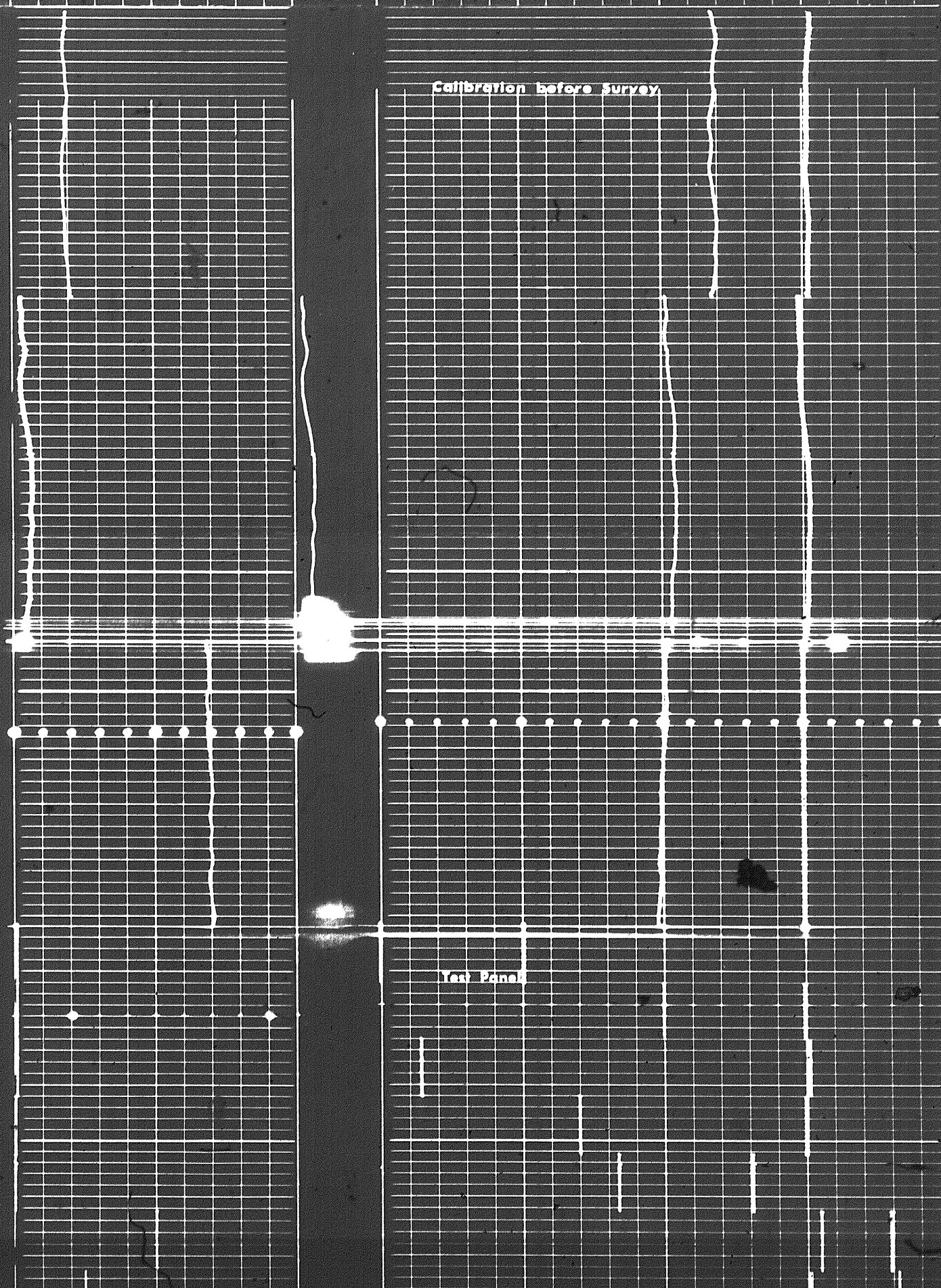
0000
 0000



24 of

Calibration before Survey

Test Panel



Test Panel

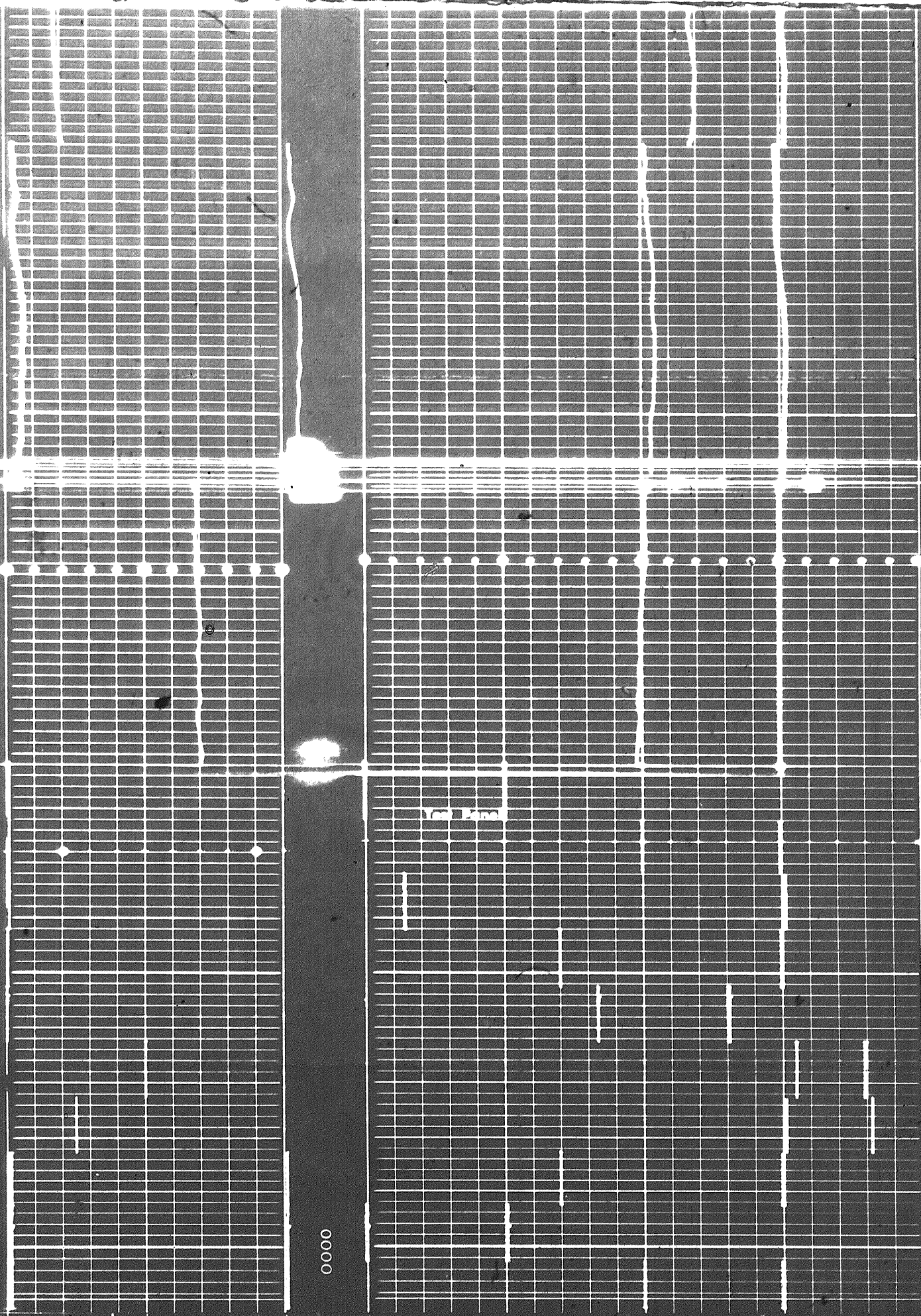
0000

Calibration after Survey

Run 2

14

13



Yes 2 line

0000

25025

0000

Calibration after survey

Run 2

14

13

12

11

10

Calibration before Survey

14

Calibration before Survey

14

13

12

11

10

COMPANY CHEVRON STANDARD LIMITED

WELL CHEVRON SOBC WM N PARKIN YT D-61

FIELD WILDCAT PROVINCE YUKON TERRITORIES

Schlumberger