

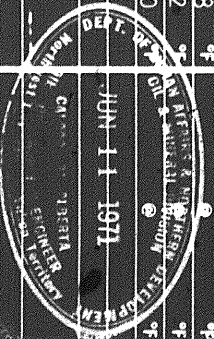
SCHLUMBERGER

COMPENSATED
FORMATION DENSITY LOG
 SCHLUMBERGER OF CANADA Calgary Alberta

PROVINCE YUKON TERRITORIES
 FIELD WILDCAT
 WELL SOBC WM SHAEFFER CK
 YT 0-22
 COMPANY CHEVRON STANDARD LIMITED

COMPANY CHEVRON STANDARD LIMITED
 WELL SOBC WM SHAEFFER CK
 Y.T. 0-22
 FIELD WILDCAT
 PROVINCE YUKON TERRITORIES
 LOCATION 61° 41' 54" N LAT
 137° 19' 40" W LONG
 Permanent Datum GL Elev. 1139
 Log Measured From KB 16 Ft. Above Perm. Datum
 Other Services:
 SLC-GR, SNP-GR, IES
 GRN, MLC, CAL, DIL
 ELEV. KB 1155
 GL 1139
 CR

| | | |
|--------------------|---------------|----------------|
| Date | 19 JAN 71 | 28 APR 71 |
| Run No. | ONE | ONE |
| First Reading | 1195 | 10373 |
| Last Reading | 50 | 8300 |
| Feet Measured | 1145 | 2073 |
| Depth Reached | 1196 | 10374 |
| Bottom Driller | 1205 | 10373 |
| Cg. SOC | | 1201 |
| Cg. Driller | | 1201 |
| Mud Nature | GEL CHEM | GEL |
| Dens. Visc. | 10.2 110 | 11.1 365 |
| Mud pH | | 10.0 |
| Water Loss | | 5.0 |
| Res. | 7.92 ● 47 °F | RMKS ● RMKS °F |
| Res. | 6.87 ● 46 °F | 2.27 ● 58 °F |
| Res. | ● BHT | 0.75 ● 82 °F |
| Res. | 8.12 ● 46 °F | 2.54 ● 60 °F |
| Bit Size | 17 1/2" | 8 3/4" |
| Source to Detector | 16" | |
| Spacing | | |
| Equipment Type | PCT-D | PCT-E |
| Operator | 2.5 HRS | 3 HRS |
| Truck No. | OSU-C 108 REM | OSU-C 108 REM |
| Recorded By | MCCOMB | CHADDOCK |
| Witness | POLLARD | POLLARD |



REMARKS
 Drilling Stopped 1800 / 18th : Circulation Stopped 2300 / 18th : Tool on Bottom 0830 / 19th : 1st Run Service Order # 4293
 RUN 2 1600 27th : 0200 28th : 2030 28th : B.H.T. °F 182
 Panel No. RUN 2 D 169 SLC-GR 18.5 HRS AFTER CIRCULATION 182°F
 Cartridge No. A 156 MUD SAMPLES: Rm #1 = 2.41 @ 64°F
 Sonde No. E 90 RUN 2 Rm #2 = 2.36 @ 64°F
 Detector No. D 397 Rm #3 = 2.42 @ 65°F

| CALIBRATION: | Background CPS | Test Source CPS | Galvanometer Deflection Div. | Panel Sens. Tap for Cal. |
|--------------|----------------|-----------------|------------------------------|--------------------------|
| Gamma Ray | 60 | 420 | 8.25 | 500 |
| | 40 | 250 | 10.0 | P&P-D |

| | | |
|-----------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------|
| GAMMA RAY API UNITS Sens. 150 T.C. 2 Zero 0 div. to left 150 300 Speed in FPM | DEPTHS | BULK DENSITY ρ_b - gm/cc 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 (-) (+) |

CALIPER

hole diameter in inches

6 7 8 9 10 11 12 13 14

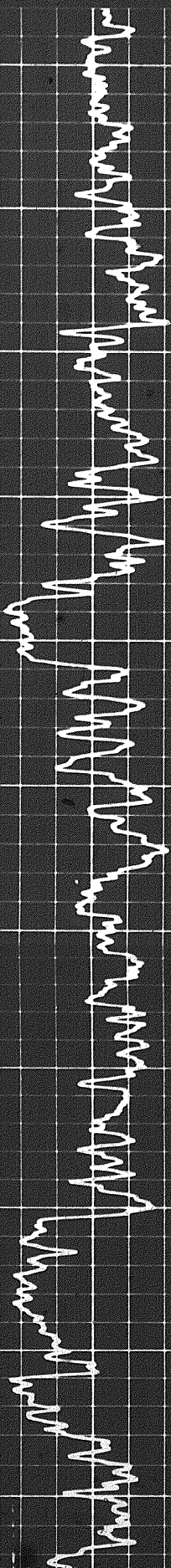
DENSITY CORRECTION

$\Delta\rho$ - gm/cc

0.25
(-)

0

0.25
(-)



0100

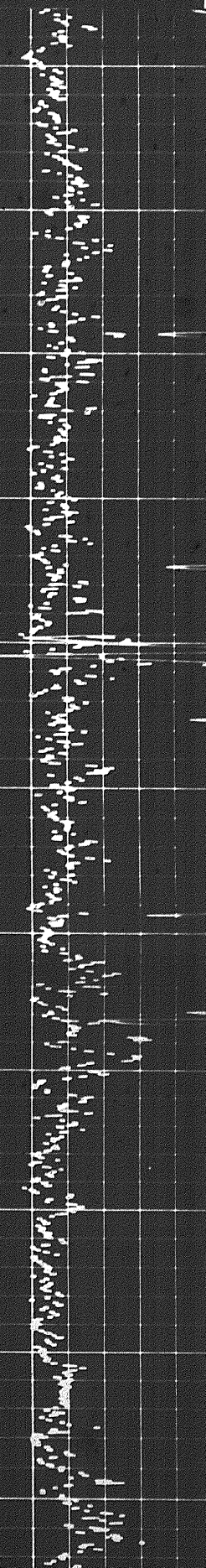
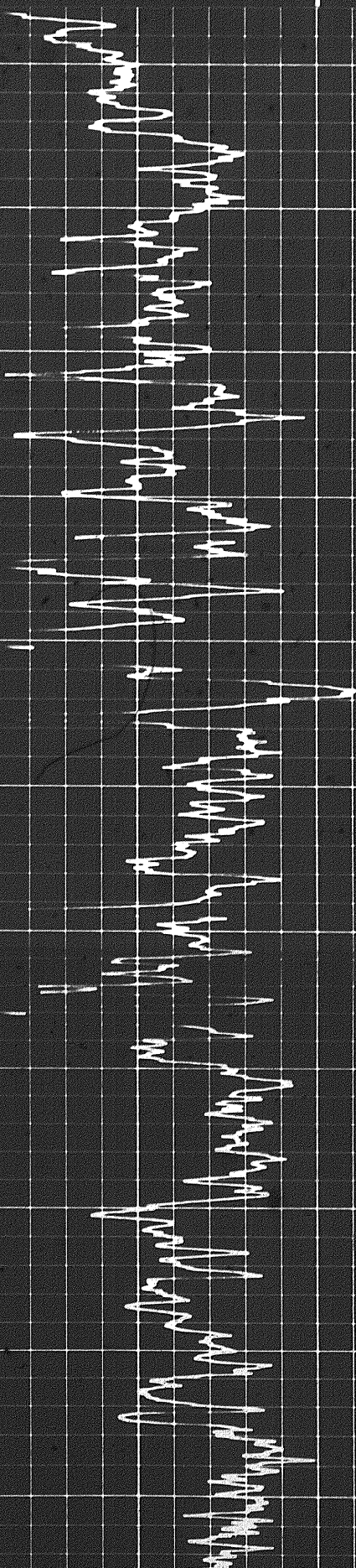
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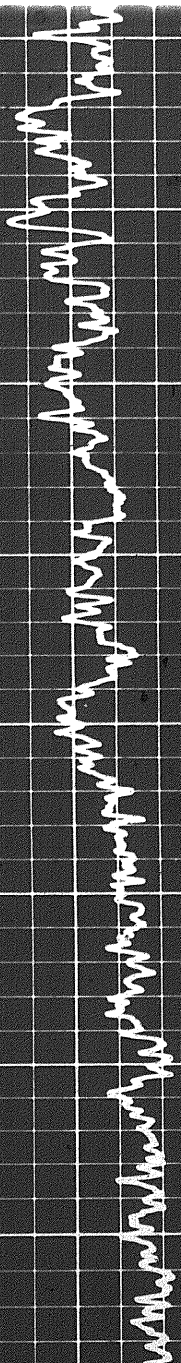
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0400

0500

0600



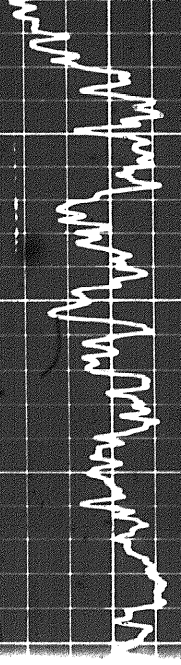
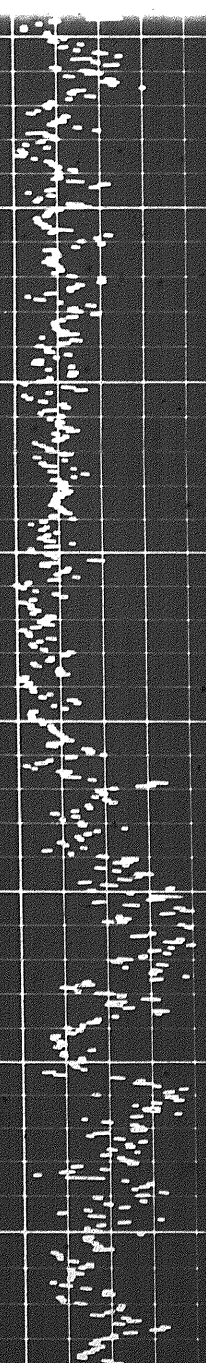
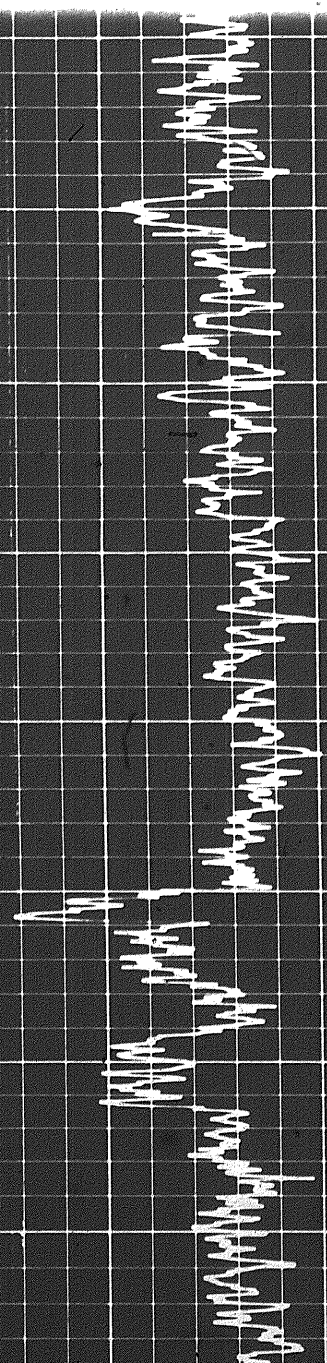


0060

0700

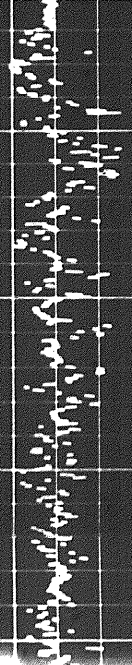
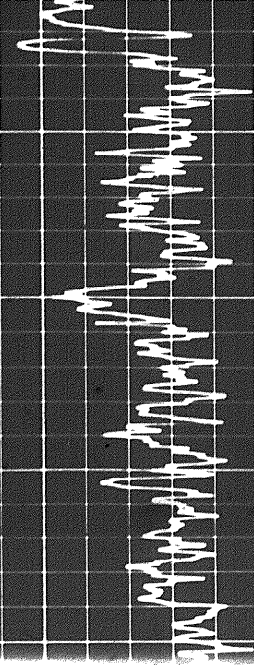
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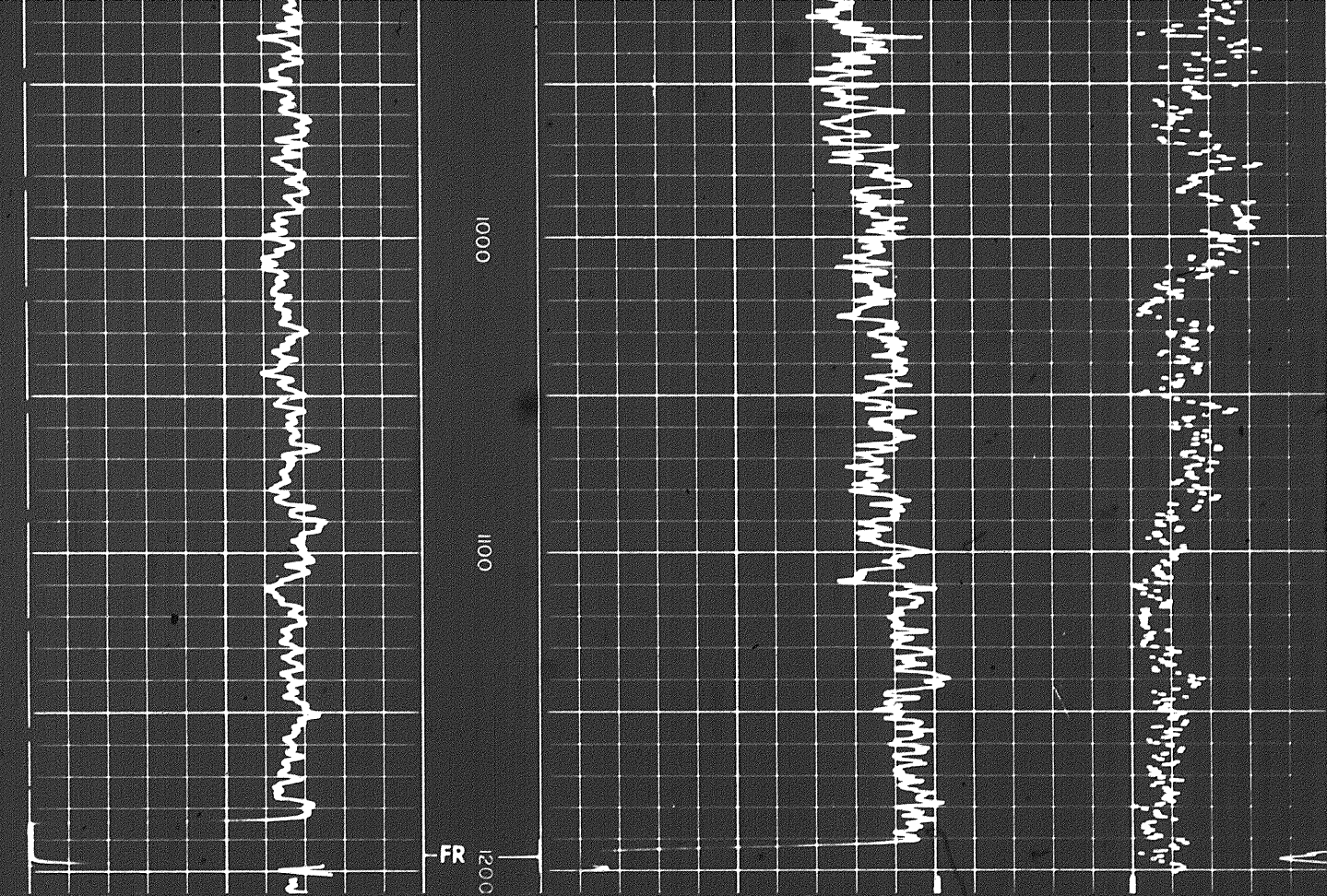
0060



0700

0090





6 7 8 9 10 11 12 13 14

CALIPER
hole diameter in inches

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

0 150 300

Speed in FPM

(-) 0.25 0 0.25 (+)

DENSITY CORRECTION
 ΔP - gm/cc

2.0 2.5 3.0

GAMMA RAY
API UNITS

DEPTHS

BULK DENSITY
 ρ_b - gm/cc

DETAIL LOG
5" = 100' RUN 2

GAMMA RAY
API UNITS

DEPTHS

BULK DENSITY
 ρ_b - gm/cc

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

0 100 200

Speed in FPM

2.0 2.5 3.0

CALIPER
hole diameter in inches

DENSITY CORRECTION
 ΔP - gm/cc

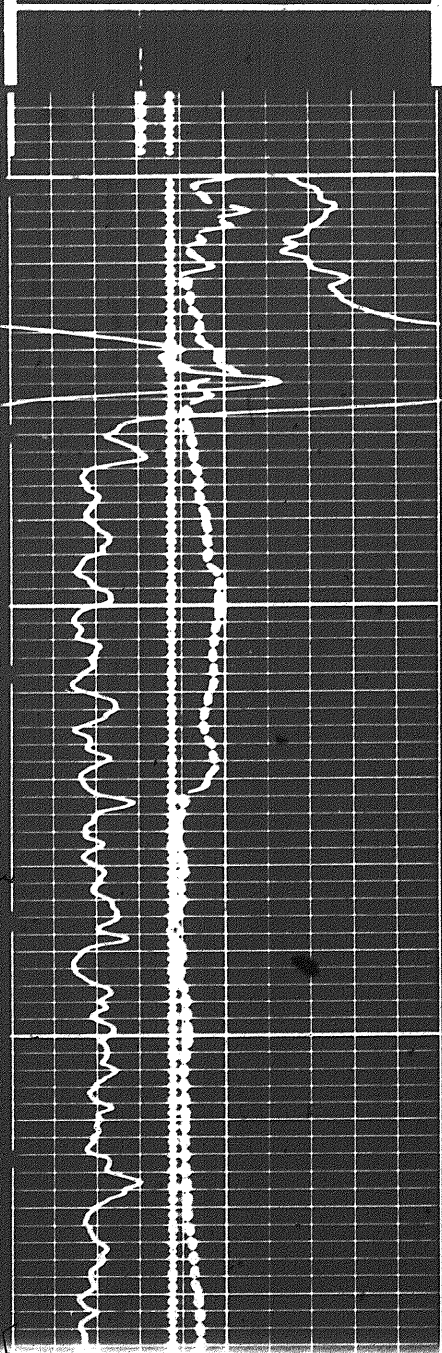
6 7 8 9 10 11 12 13 14

0.25 0 0.25

Zero 0 div. to left 1.00
 100 200

CALIPER
 hole diameter in inches

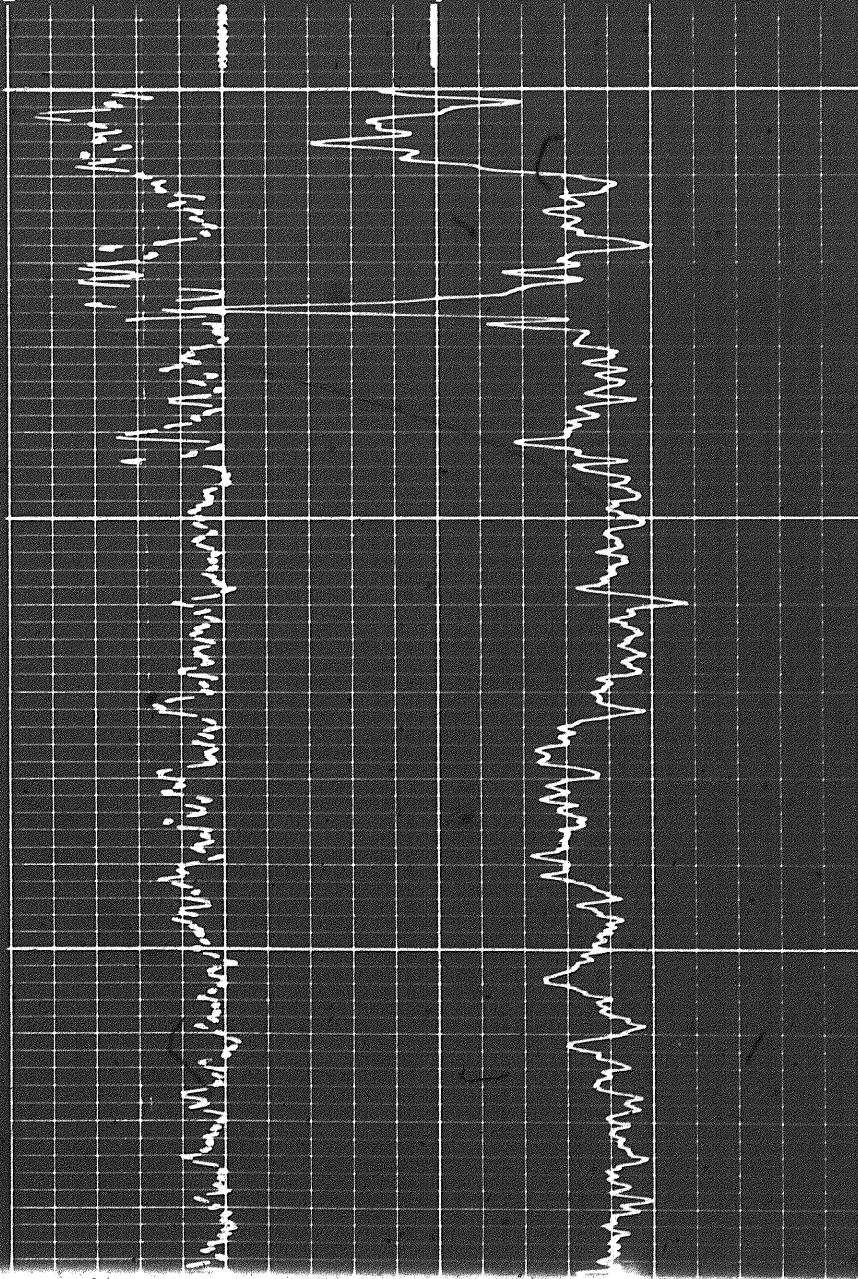
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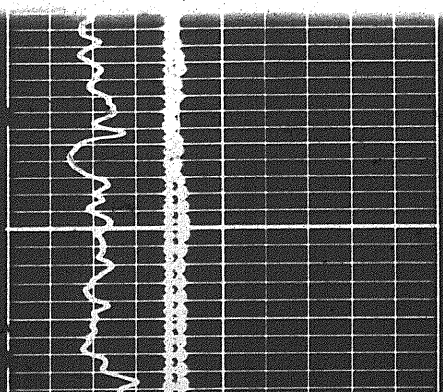
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8400

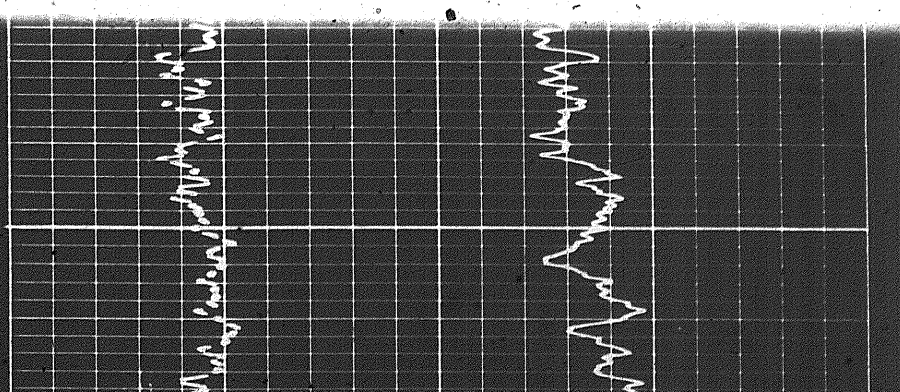
2.0 2.5 3.0
 DENSITY CORRECTION
 $\Delta\rho$ - gm/cc
 0.25 0 0.25
 (+) (-)



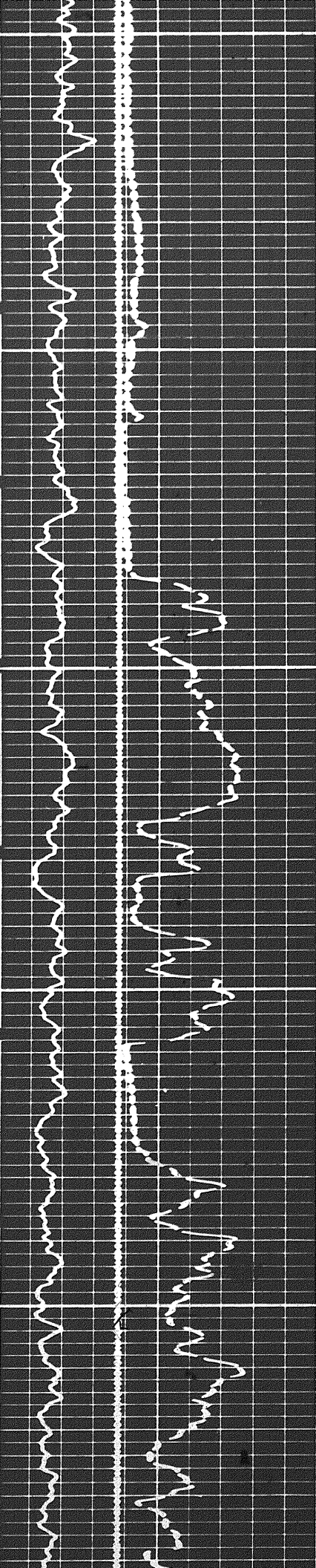
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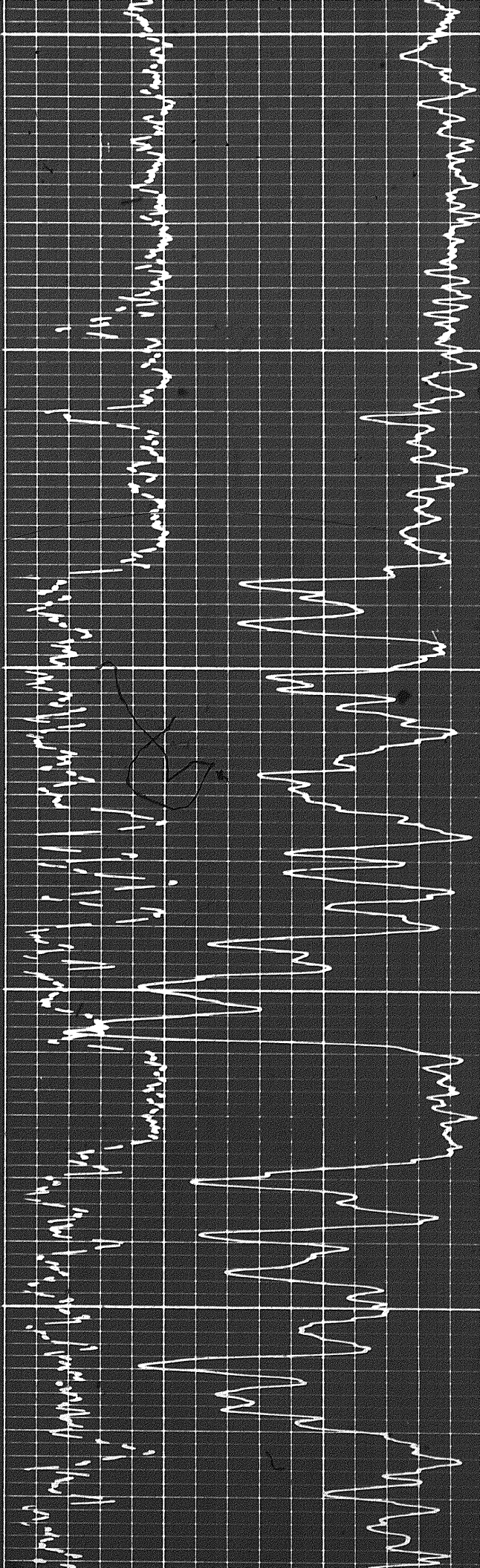
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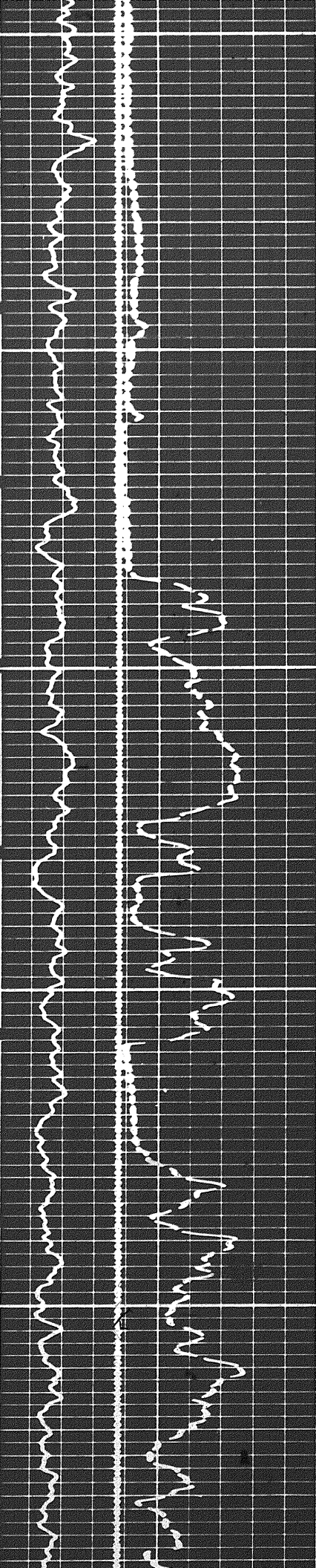
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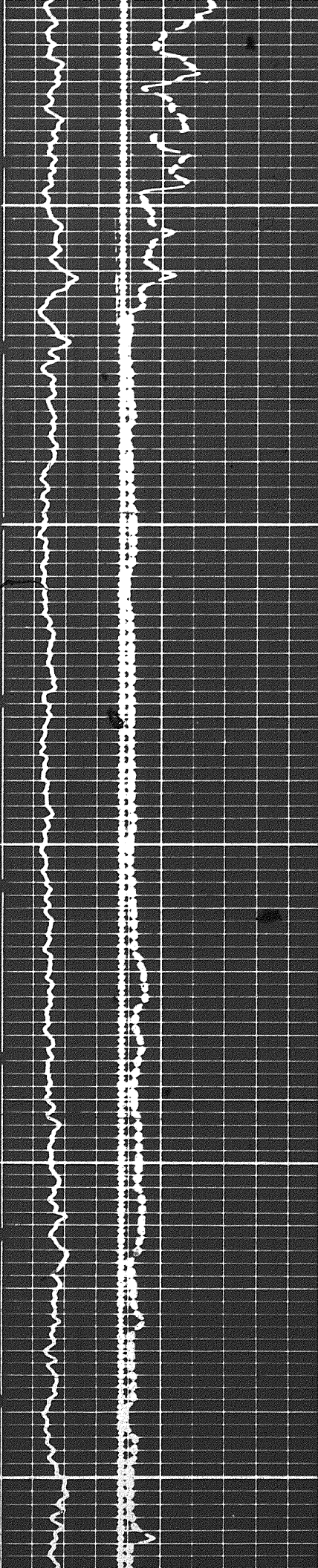


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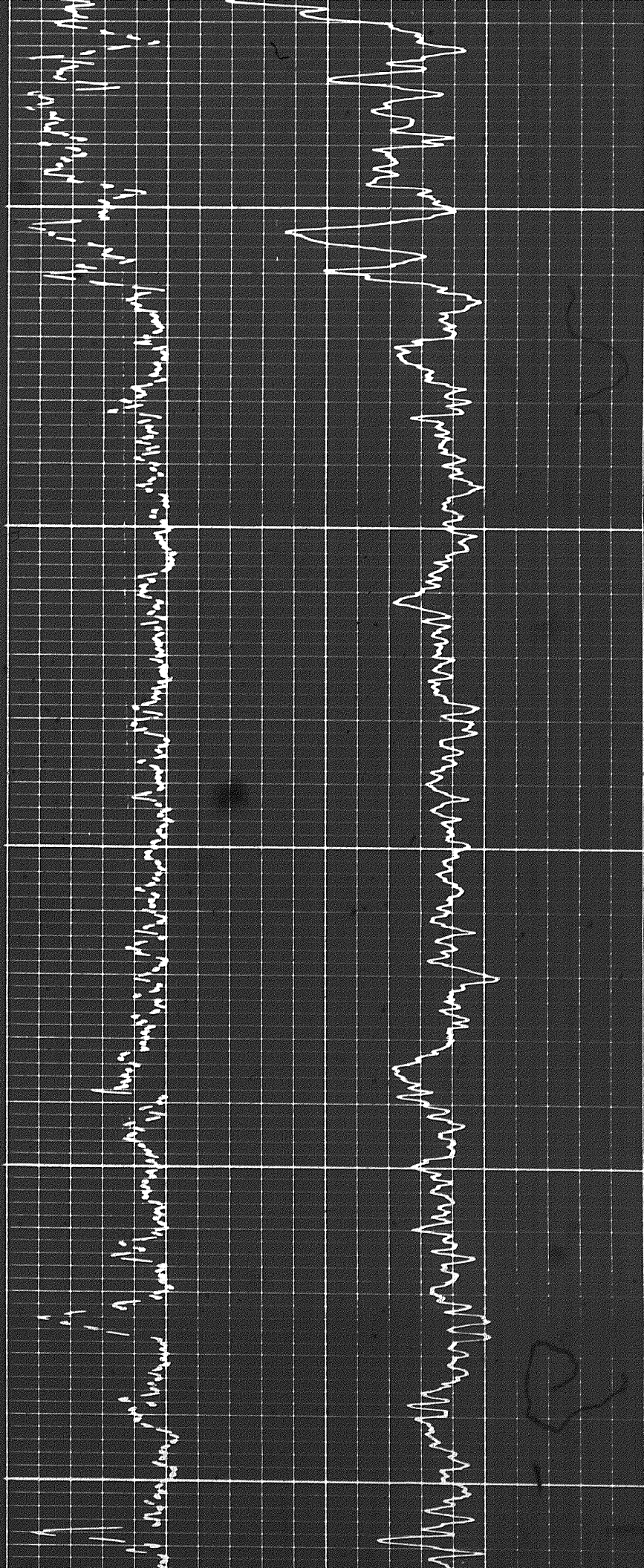
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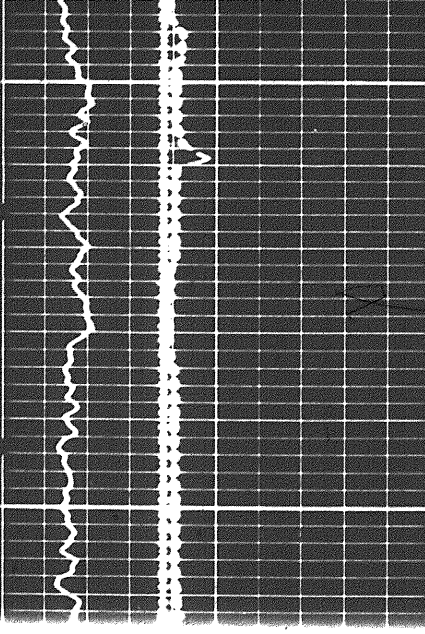


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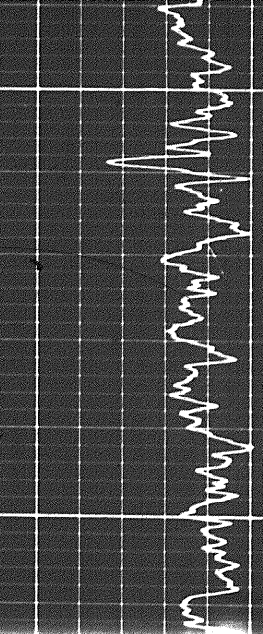
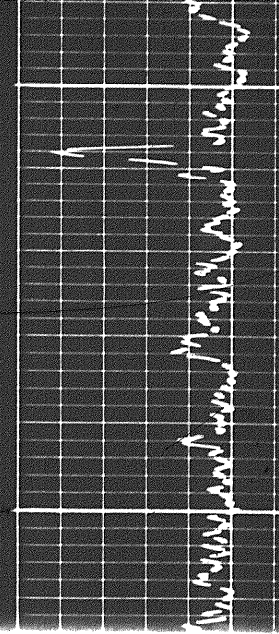
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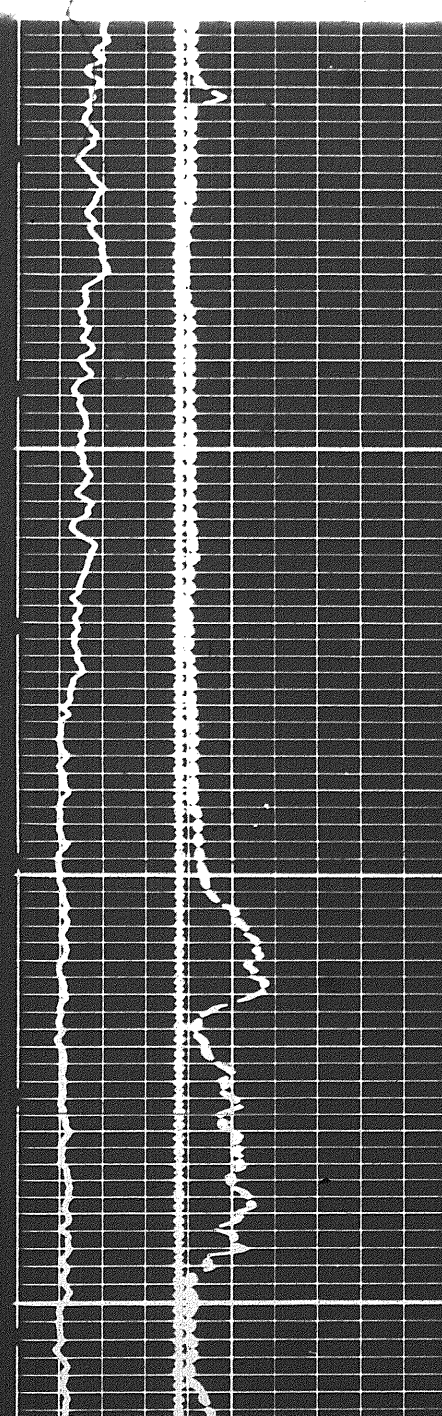
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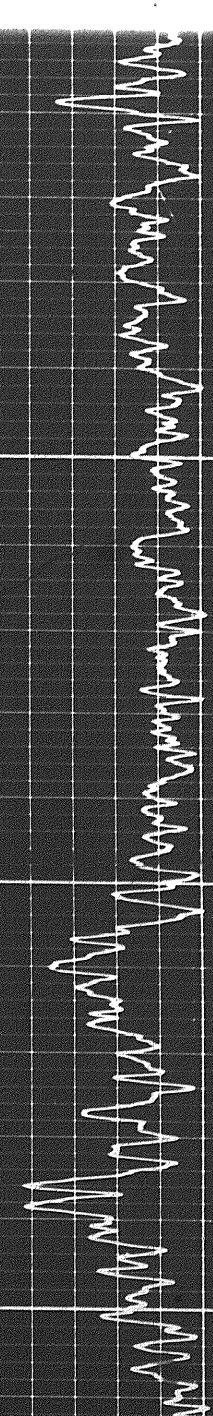
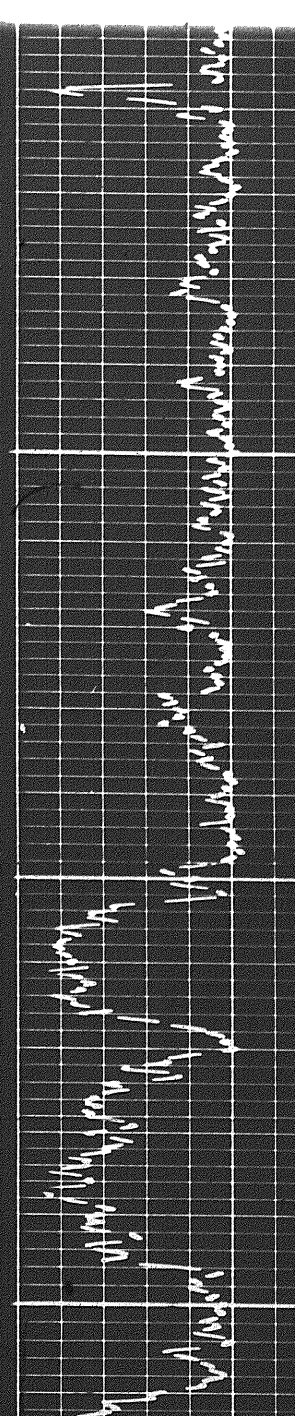
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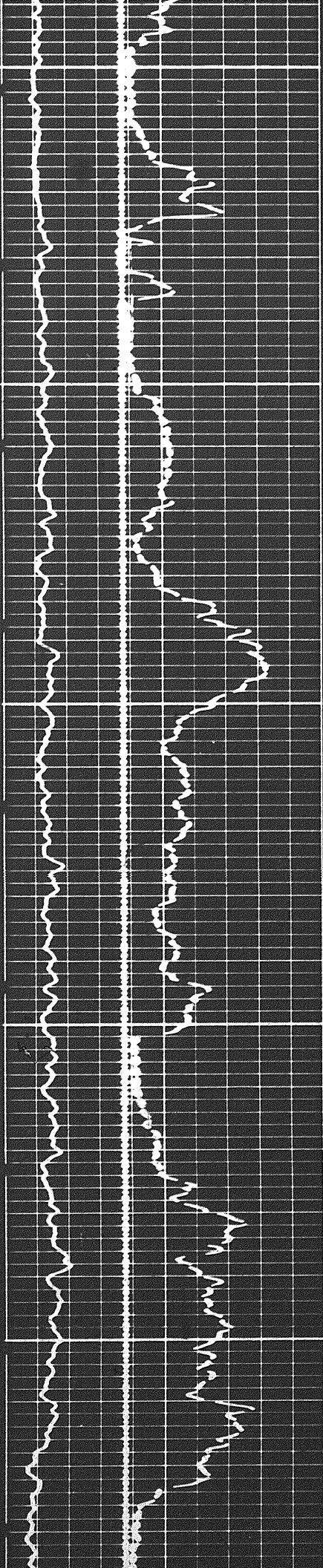
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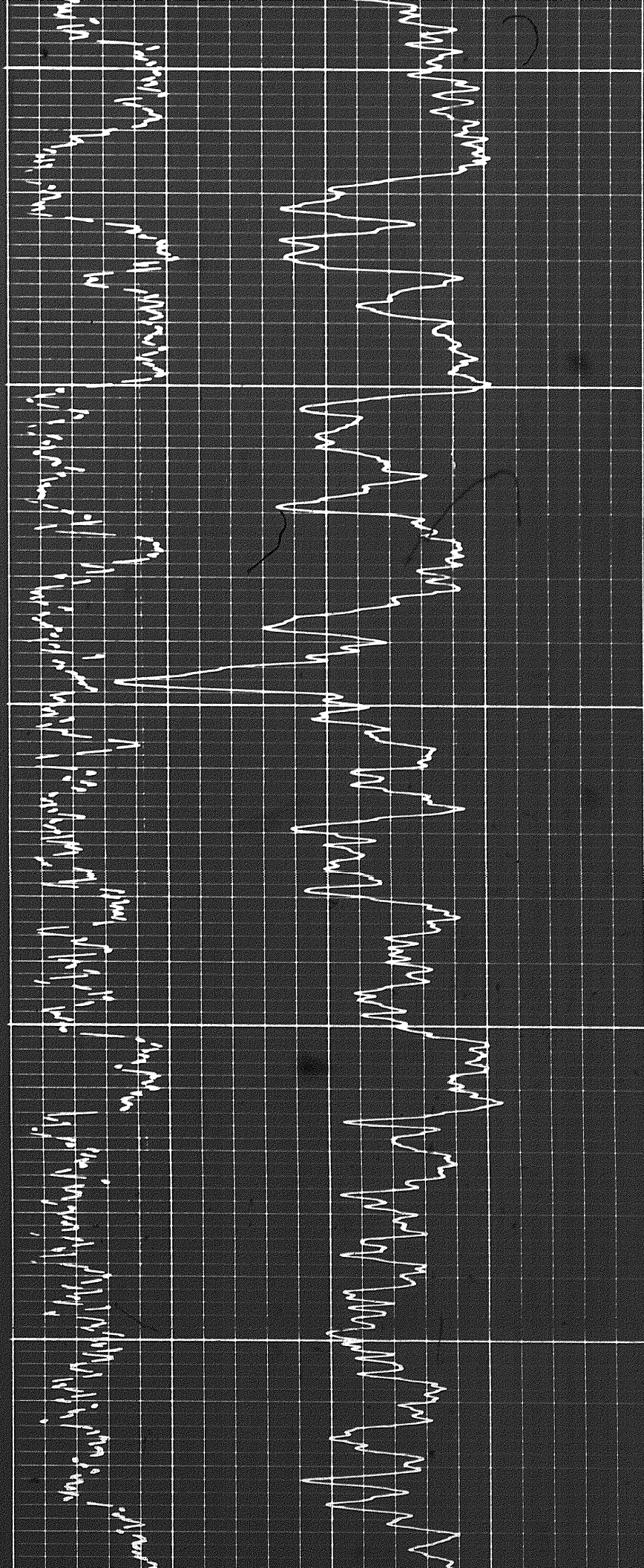
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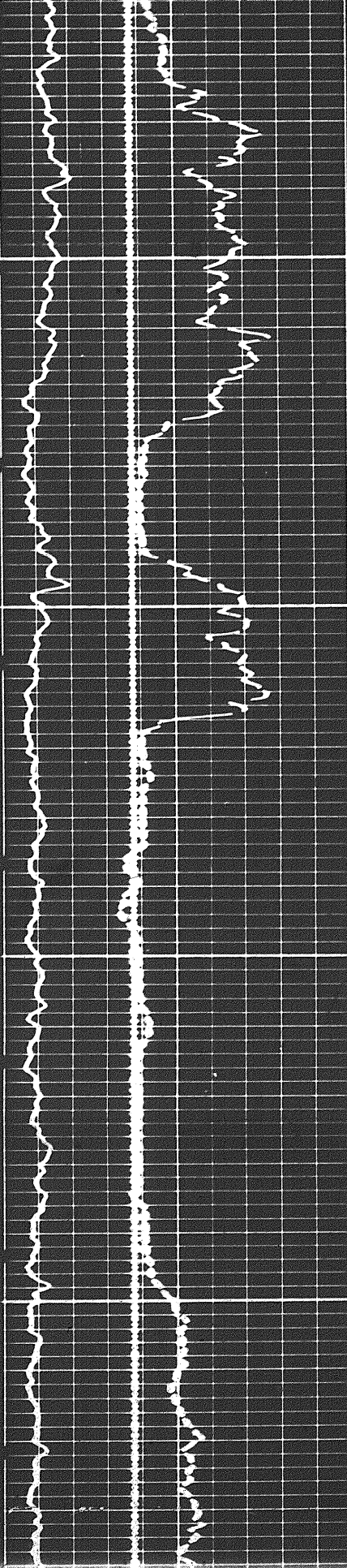
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8009

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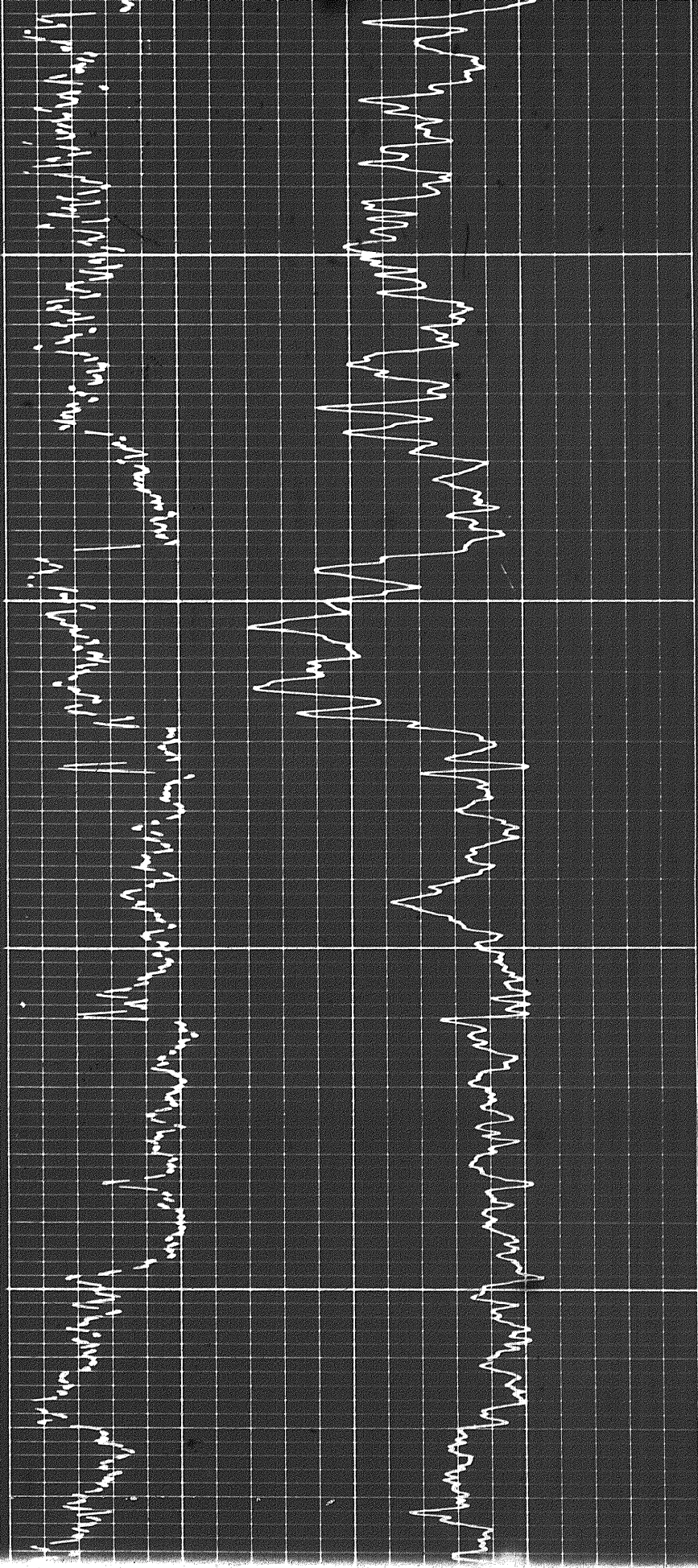


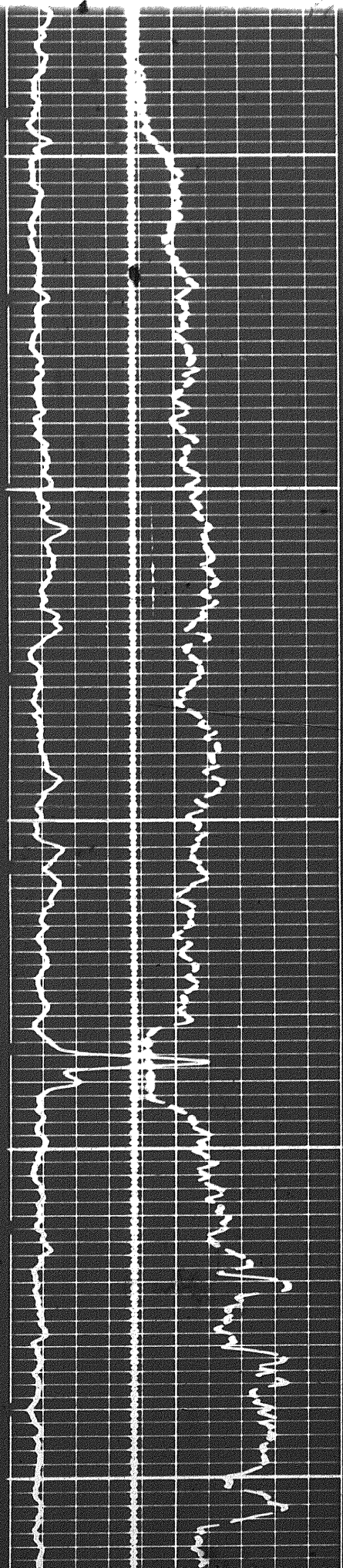
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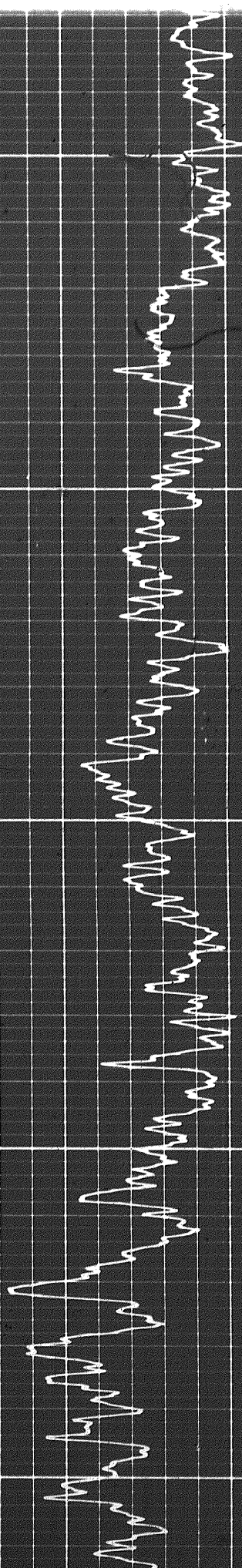
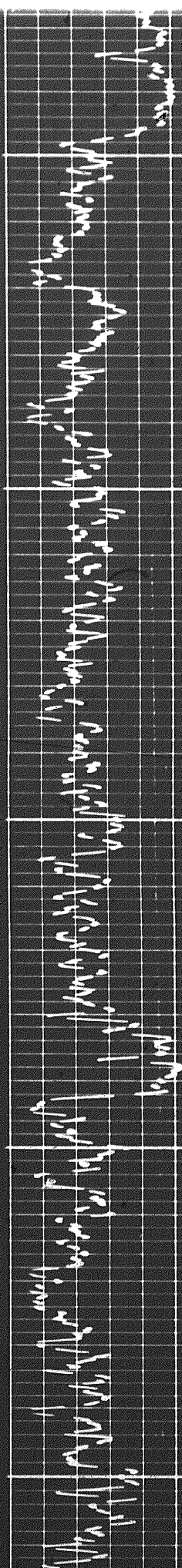
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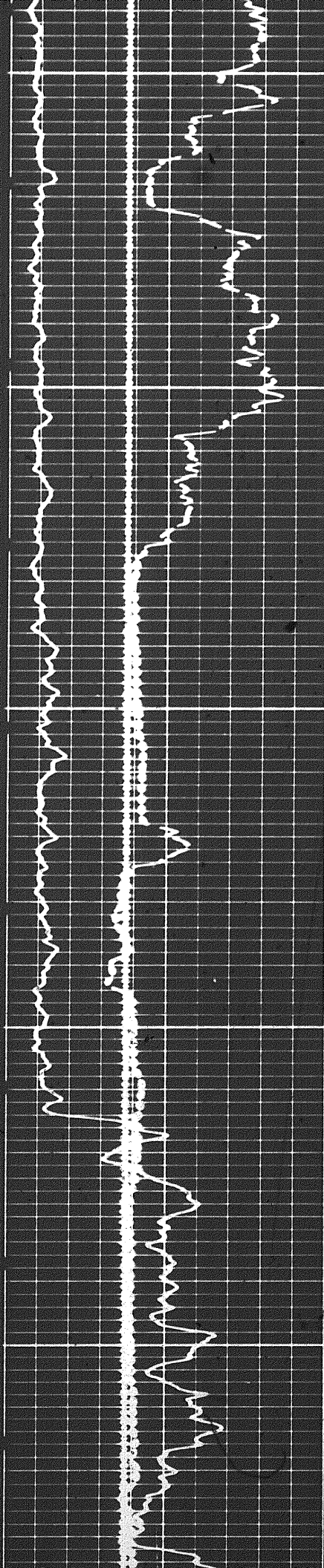




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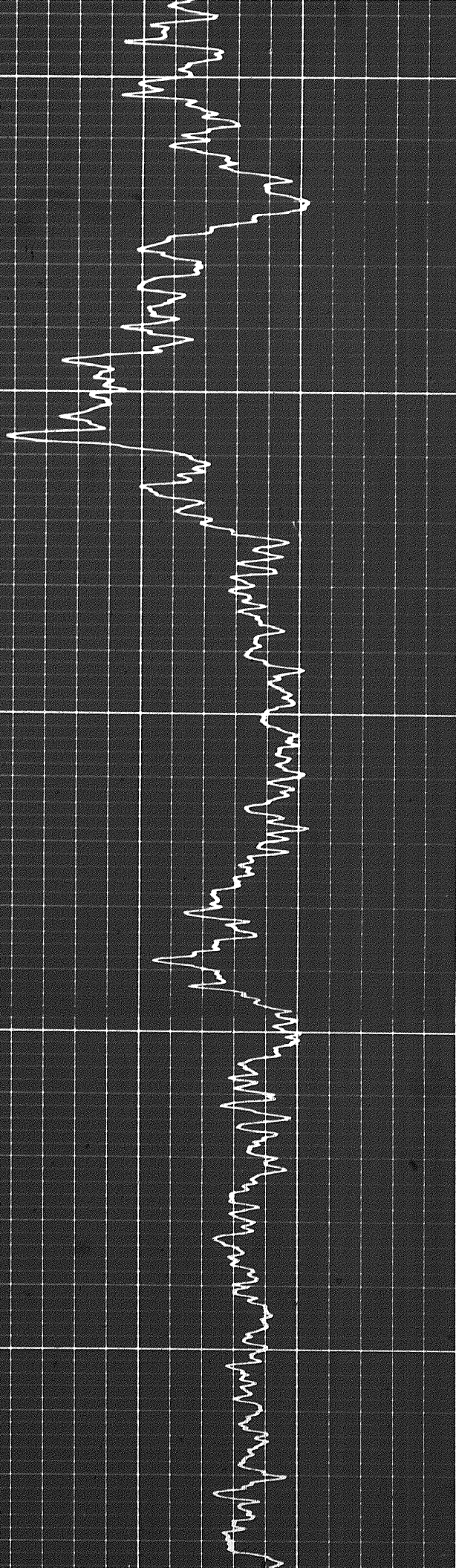
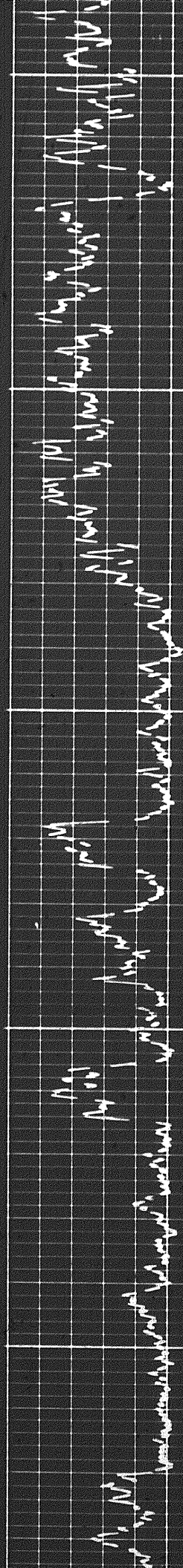
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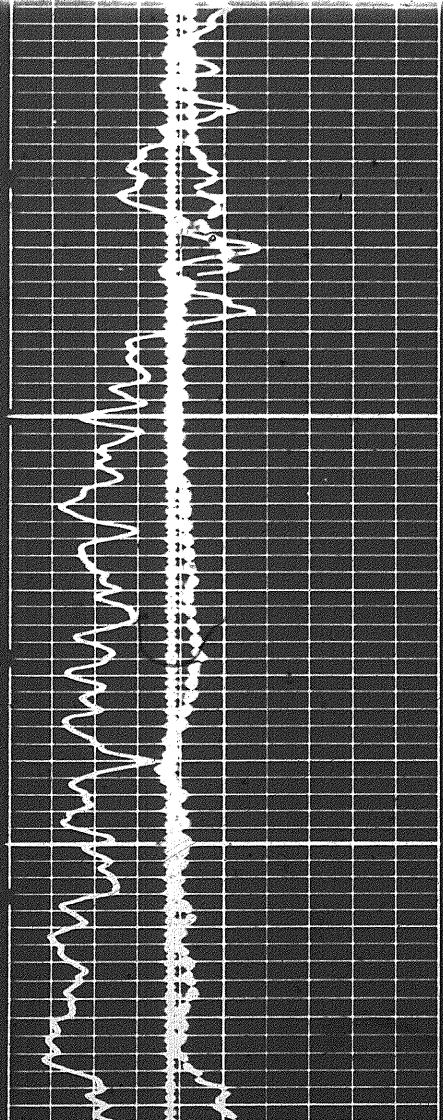


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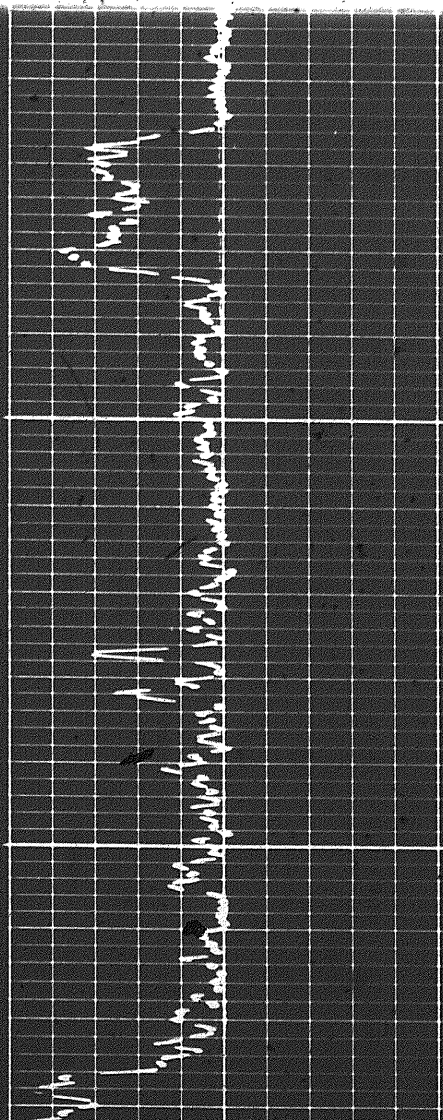
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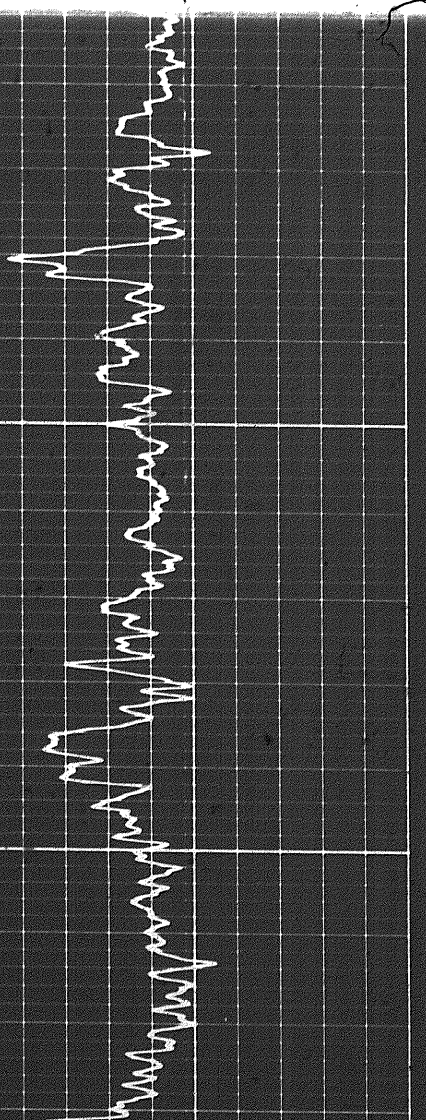
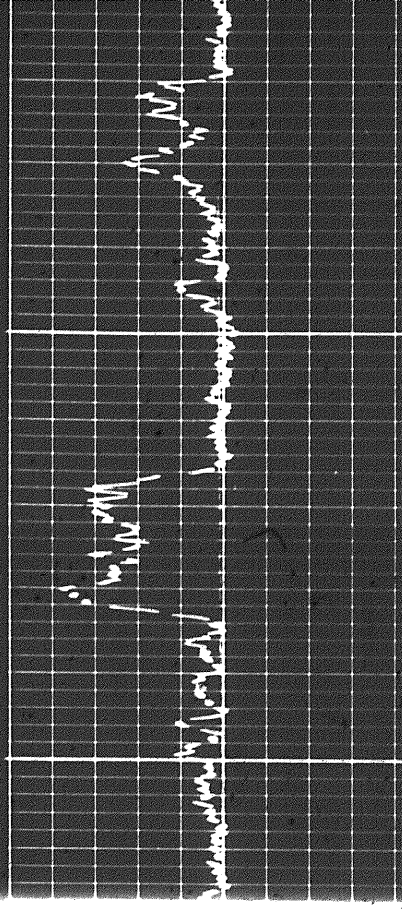
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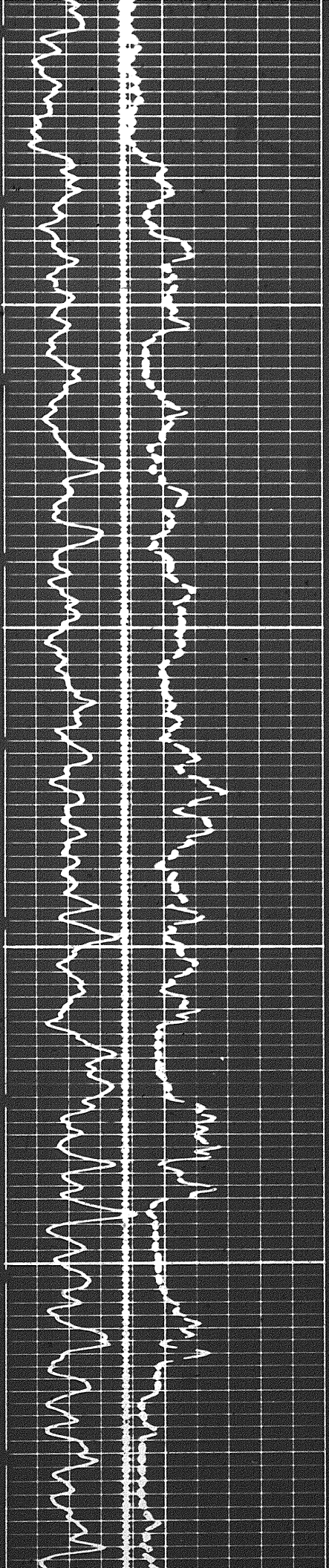


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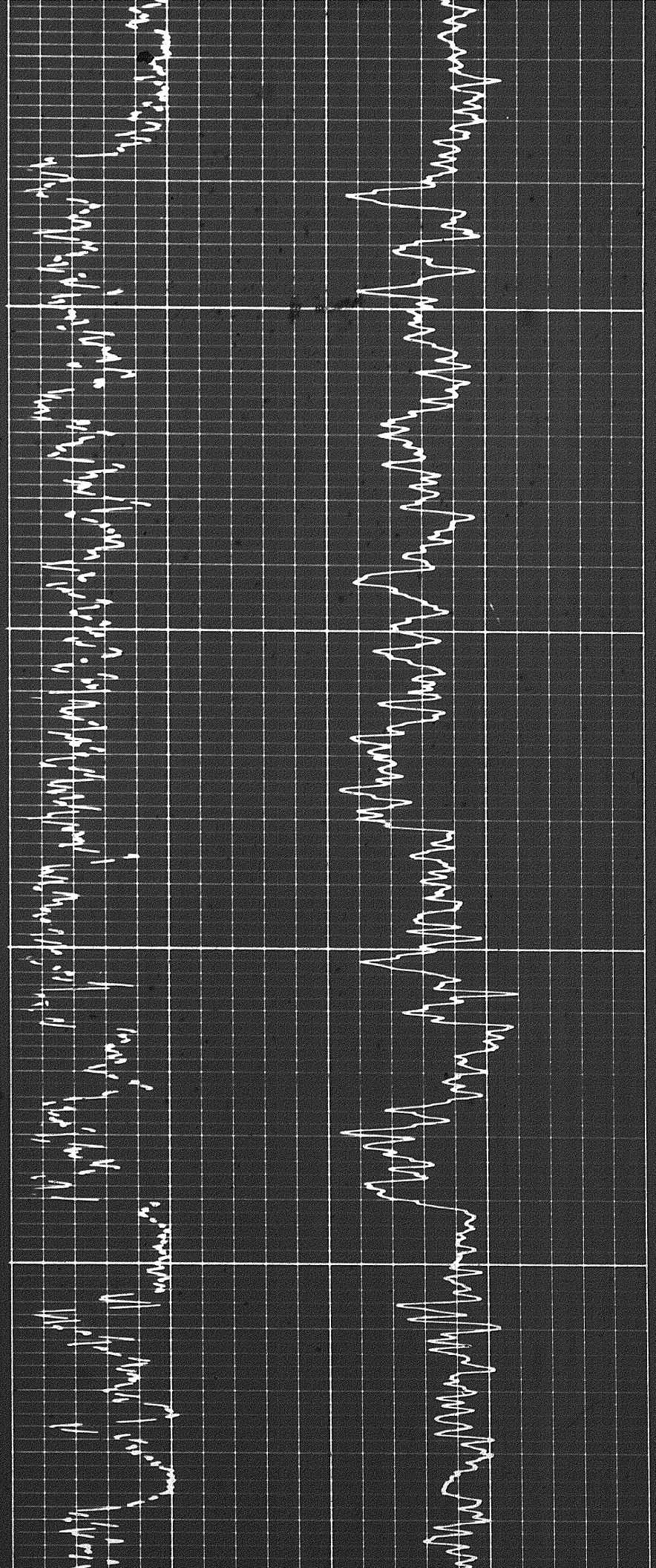
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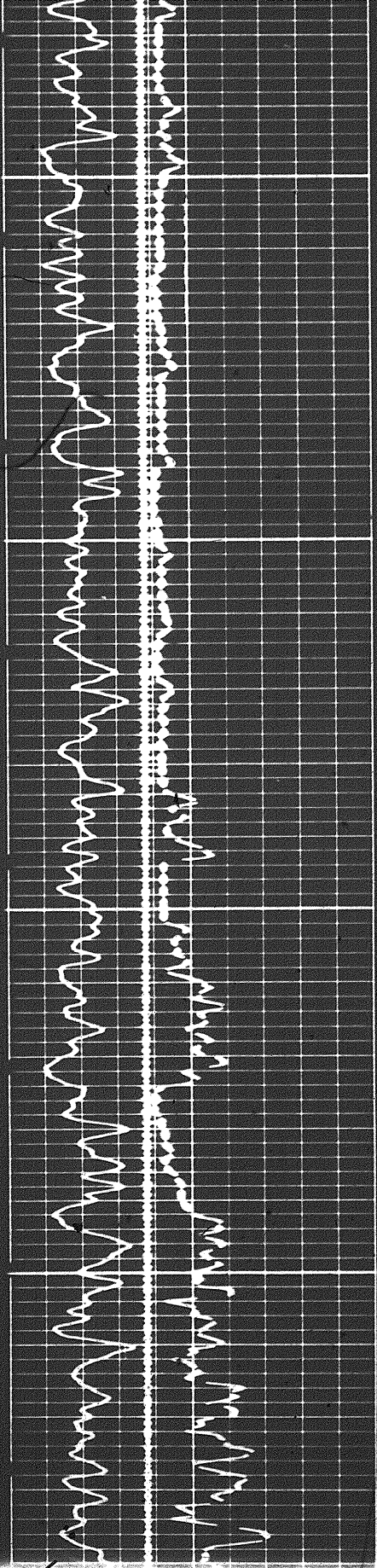


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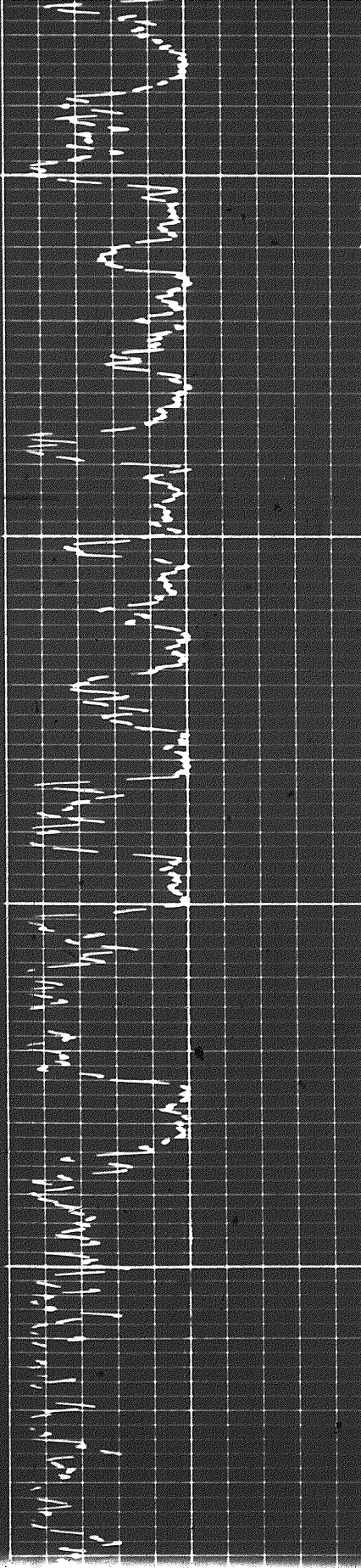
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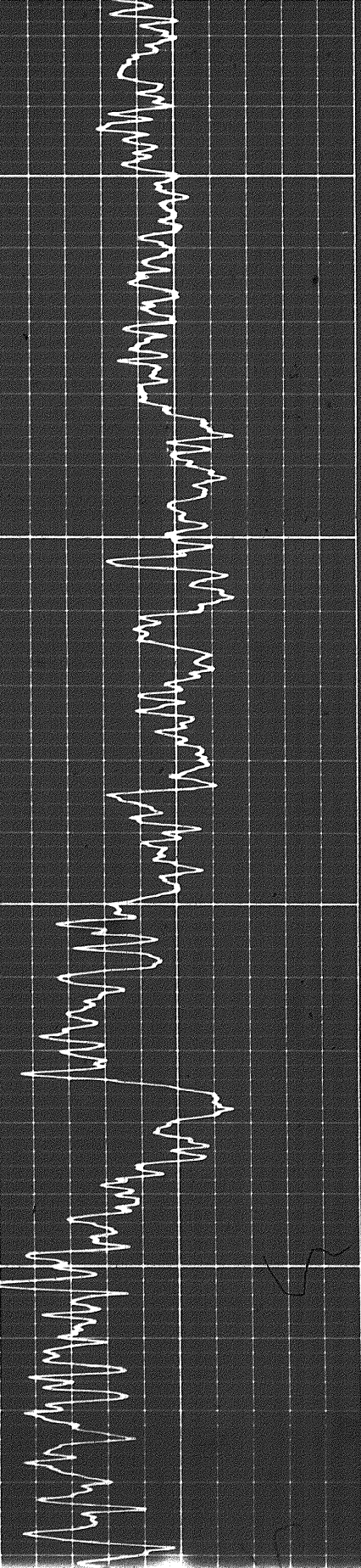
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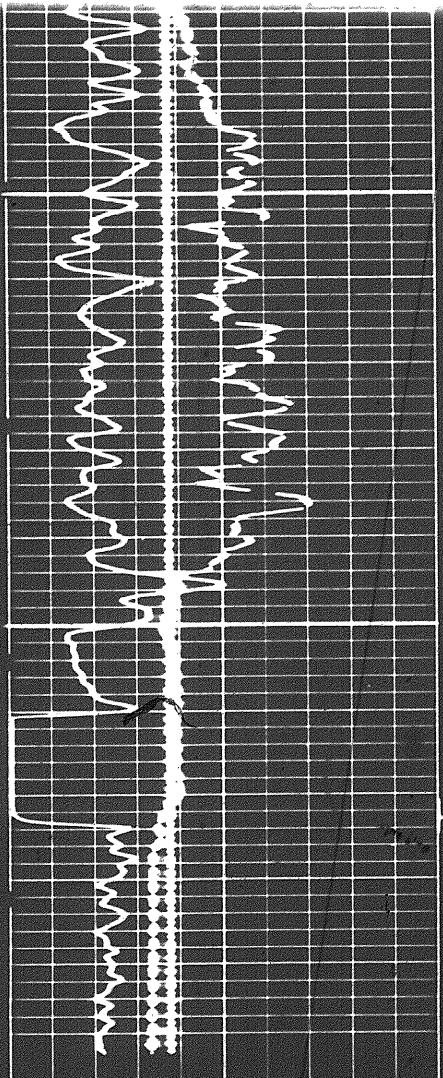
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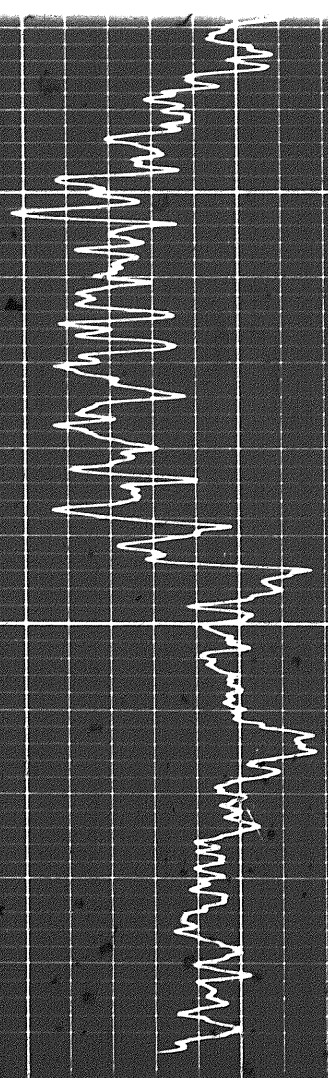
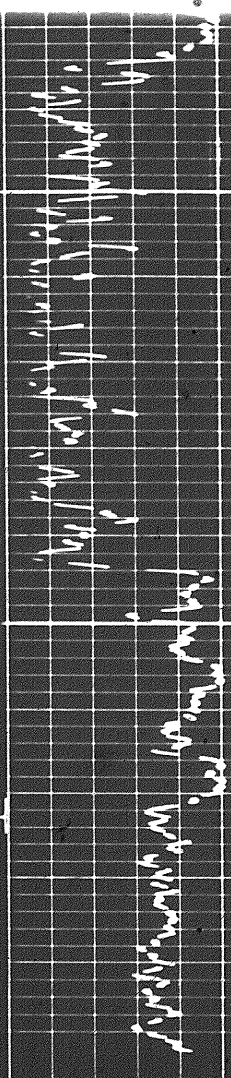


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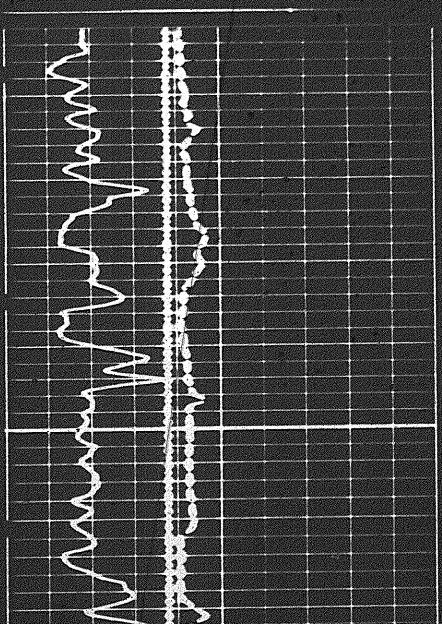


10300

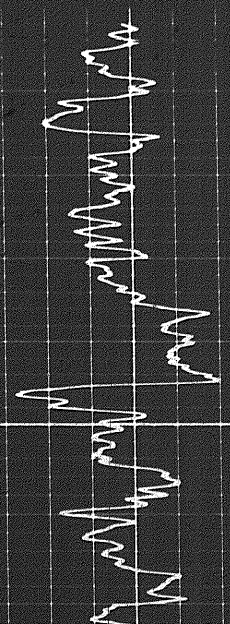
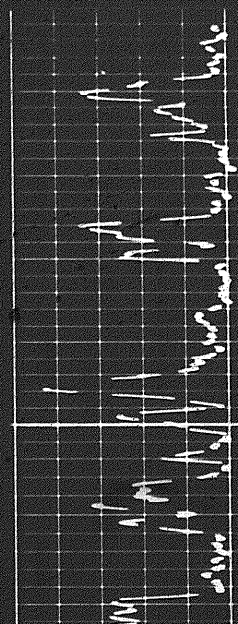
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REPEAT SECTION



10200

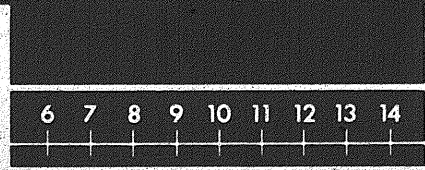
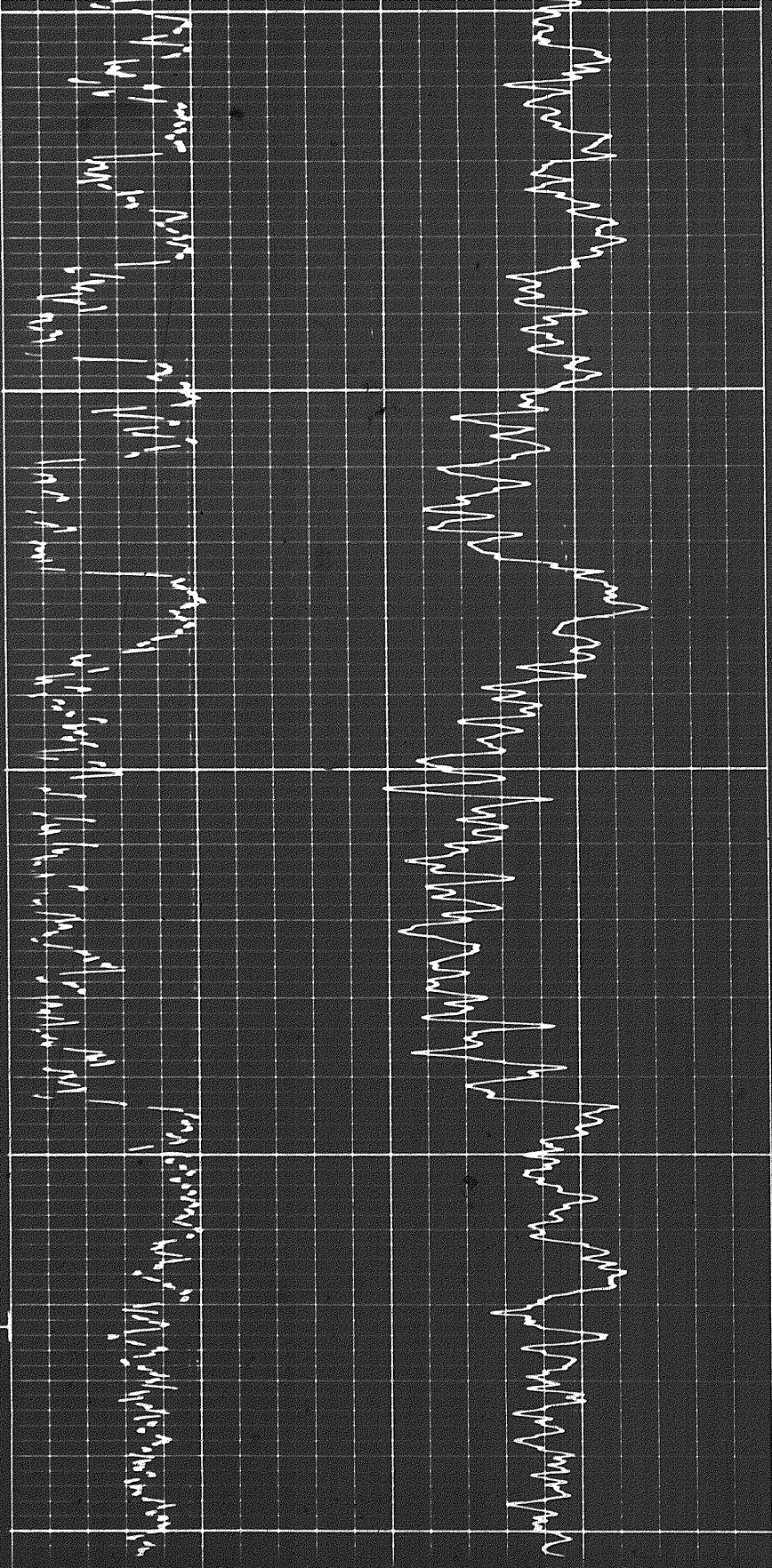
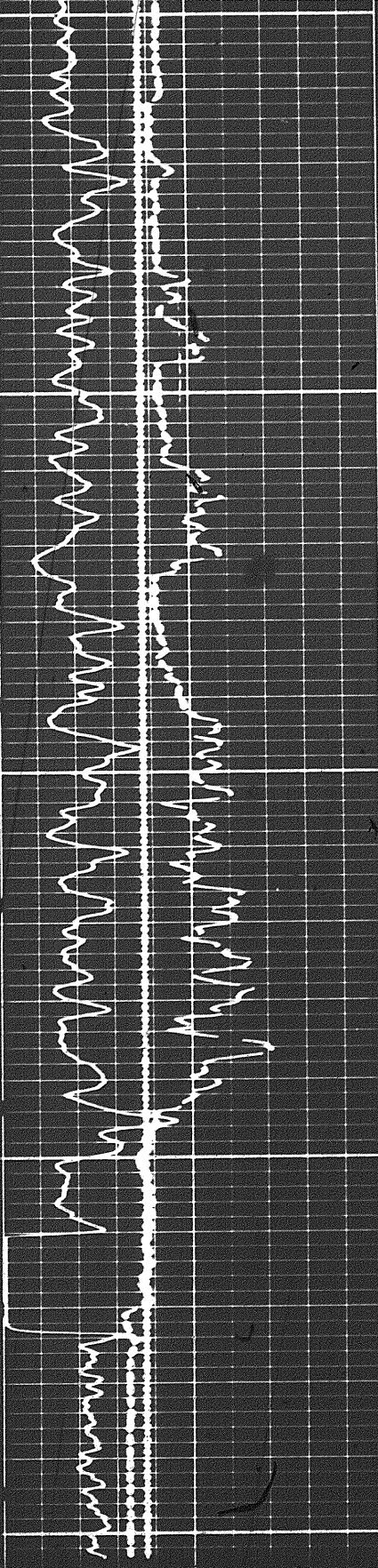


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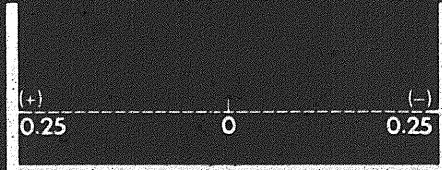
10300

FR

10400



CALIPER
hole diameter in inches



DENSITY CORRECTION
 ΔP - gm/cc

Sens. 100 T.C. 2

Space

6 7 8 9 10 11 12 13 14

CALIPER
hole diameter in inches

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

(+) 0.25 0 0.25 (-)

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

2.0 2.5 3.0

Speed in FPM

API UNITS

DEPTHS

BULK DENSITY

DETAIL LOG
5' = 100'

RUN 1

GAMMA RAY
API UNITS

DEPTHS

BULK DENSITY
 ρ_b - gm/cc

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

2.0

2.5

POROSITY %

45

15

CALIPER

Rho-g = 2.65

GAMMA RAY
API UNITS

DEPTHS

BULK DENSITY
 ρ_b - gm/cc

DETAIL LOG
5' = 100'

RUN 1

GAMMA RAY
API UNITS

DEPTHS

BULK DENSITY
 ρ_b - gm/cc

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

2.0

2.5

3.0

POROSITY %

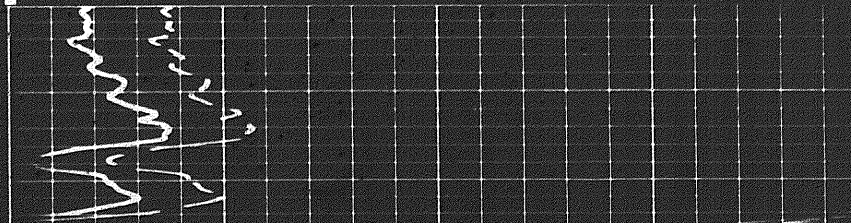
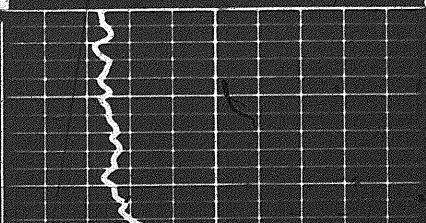
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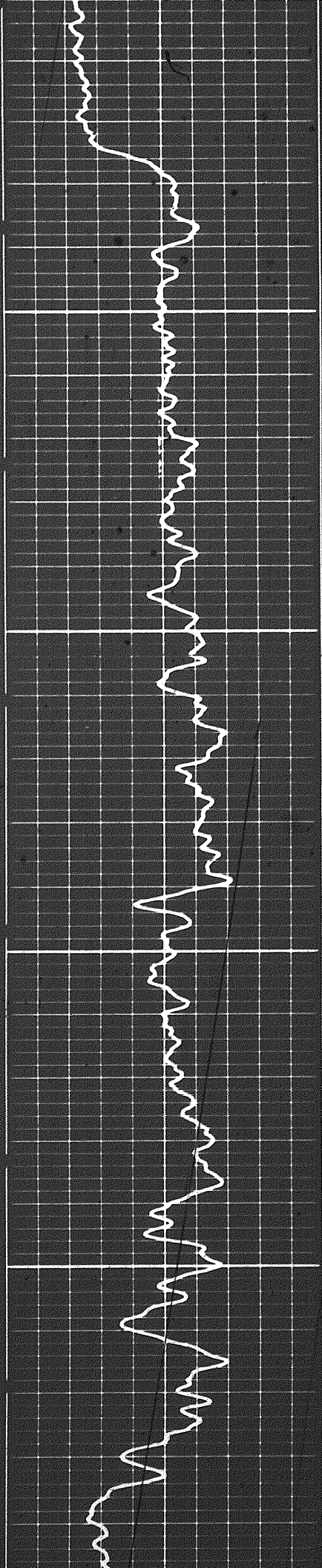
CALIPER
hole diameter in inches

6 7 8 9 10 11 12 13 14

Rho-g = 2.65
Rho-f = 1.00

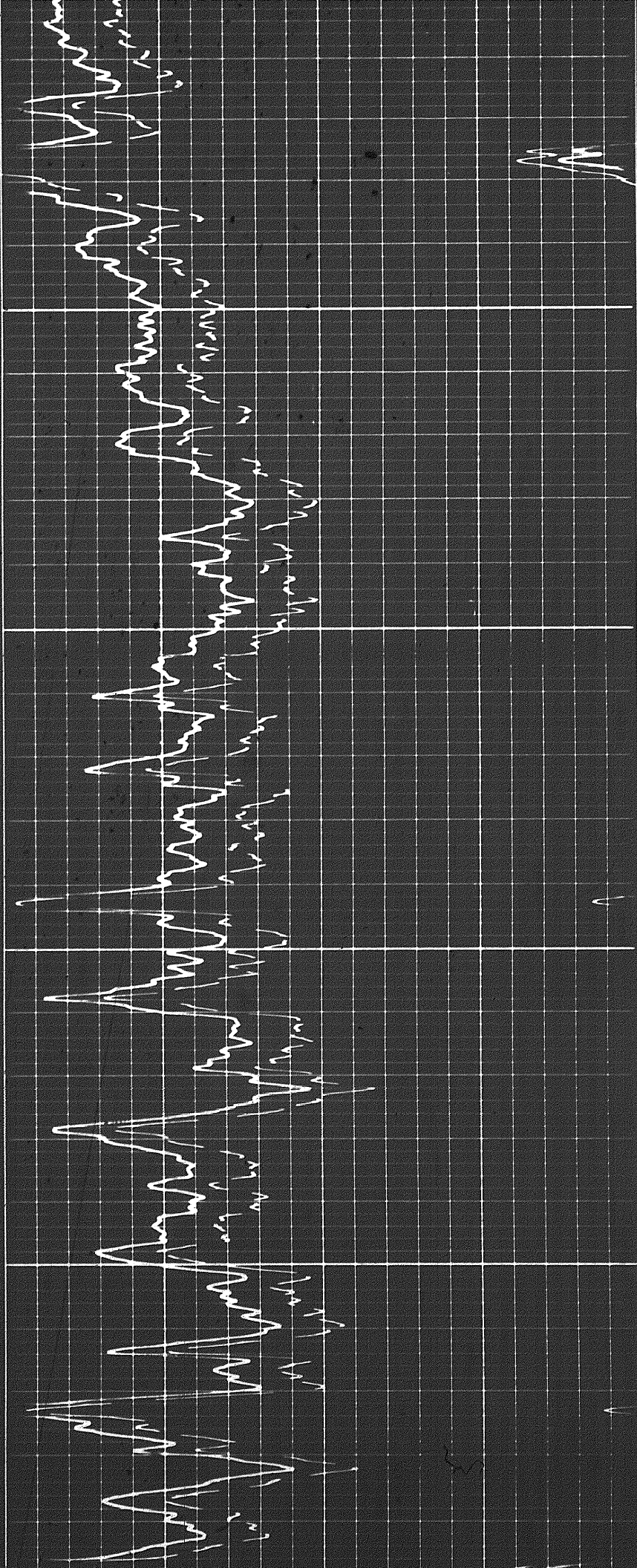


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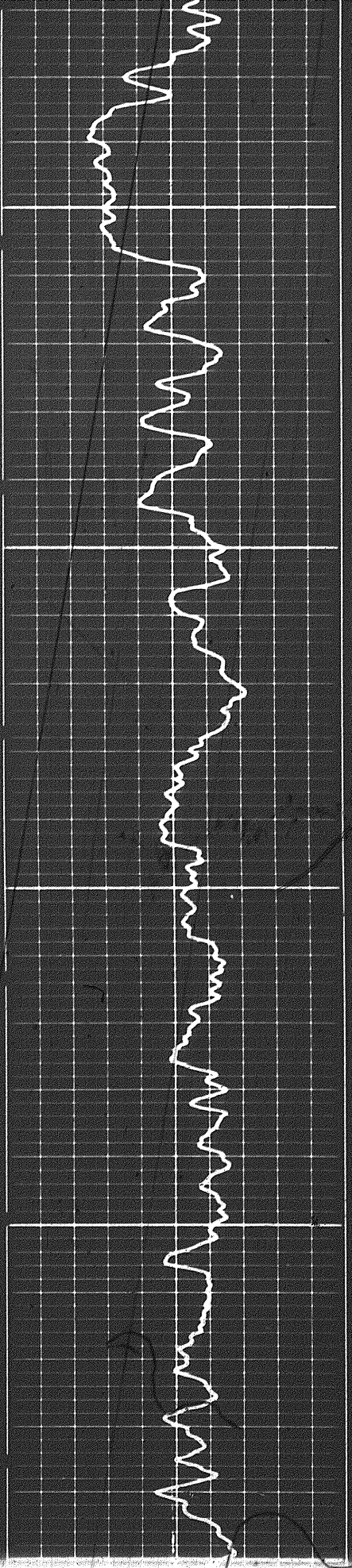


0100

0200



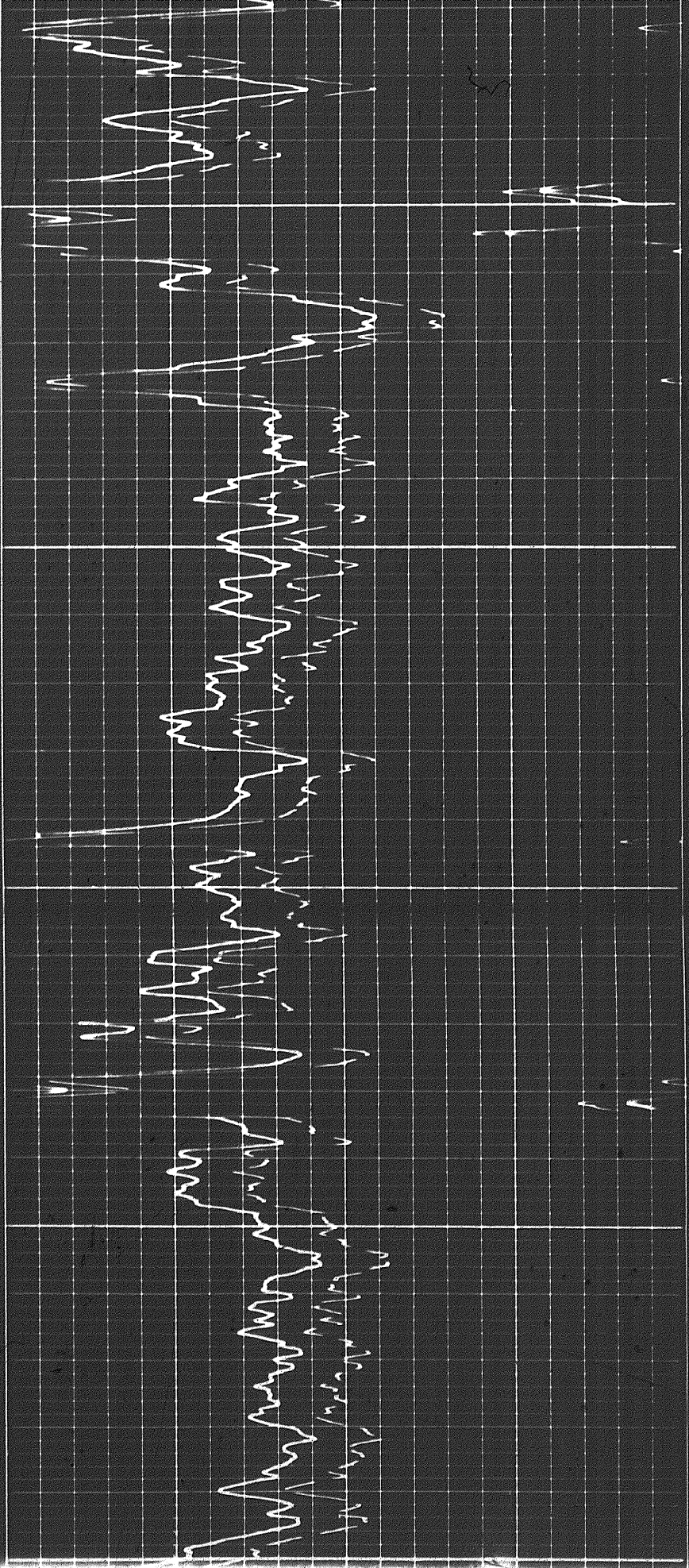
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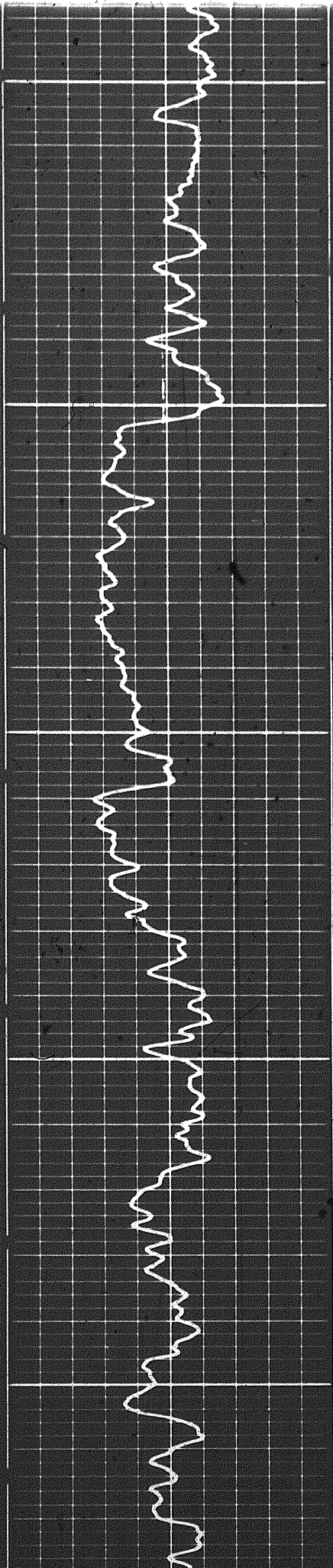


0300

0400

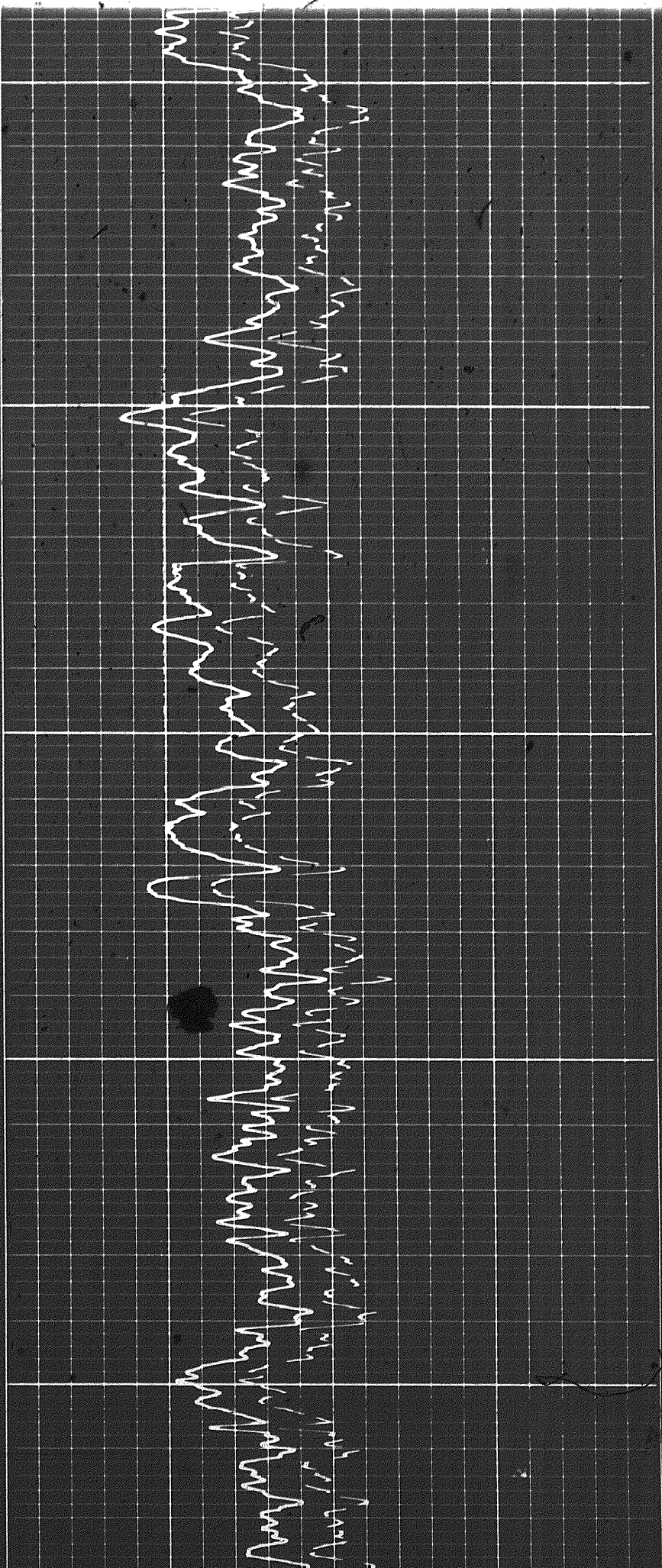
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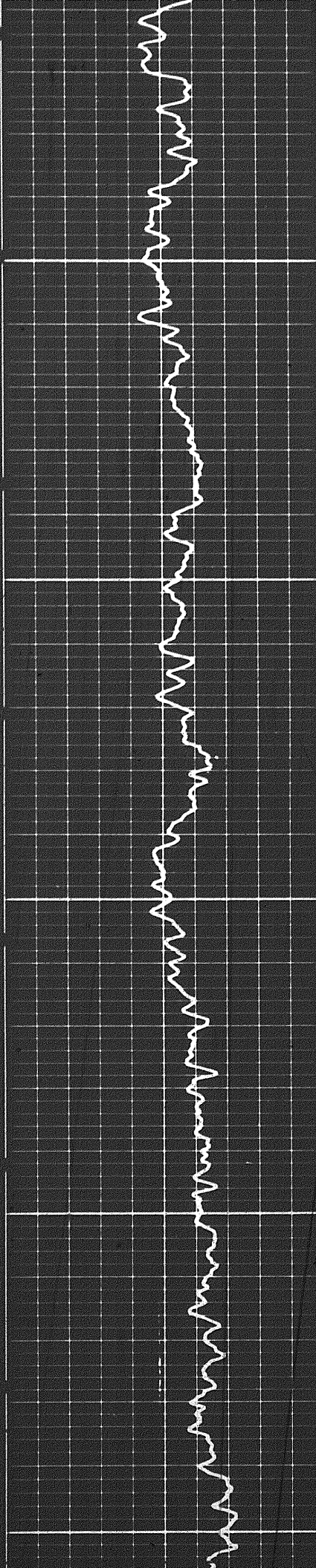




0500

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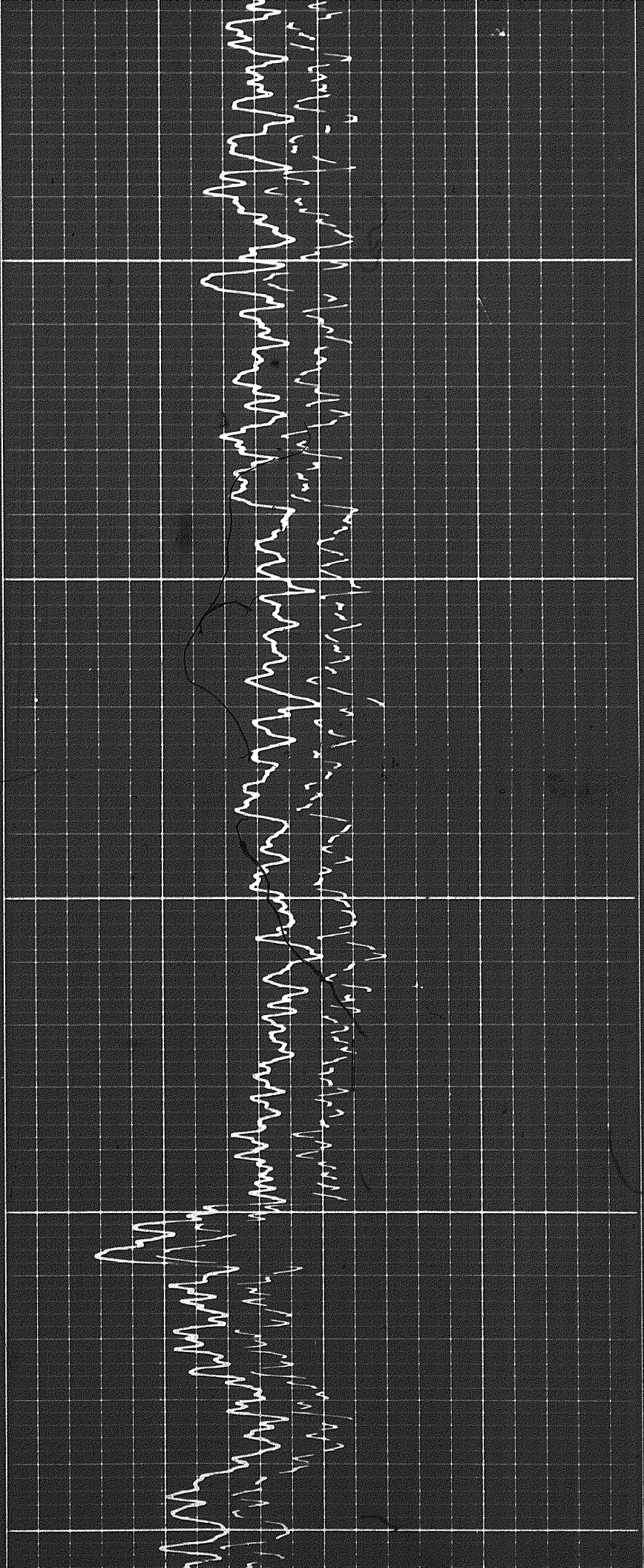




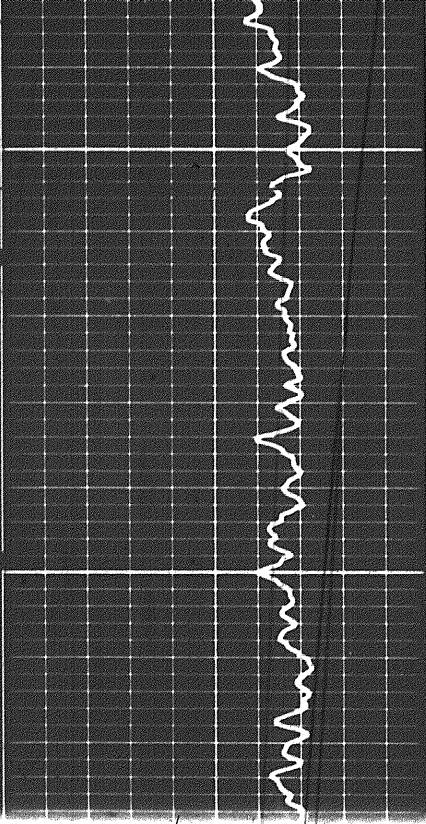
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0800

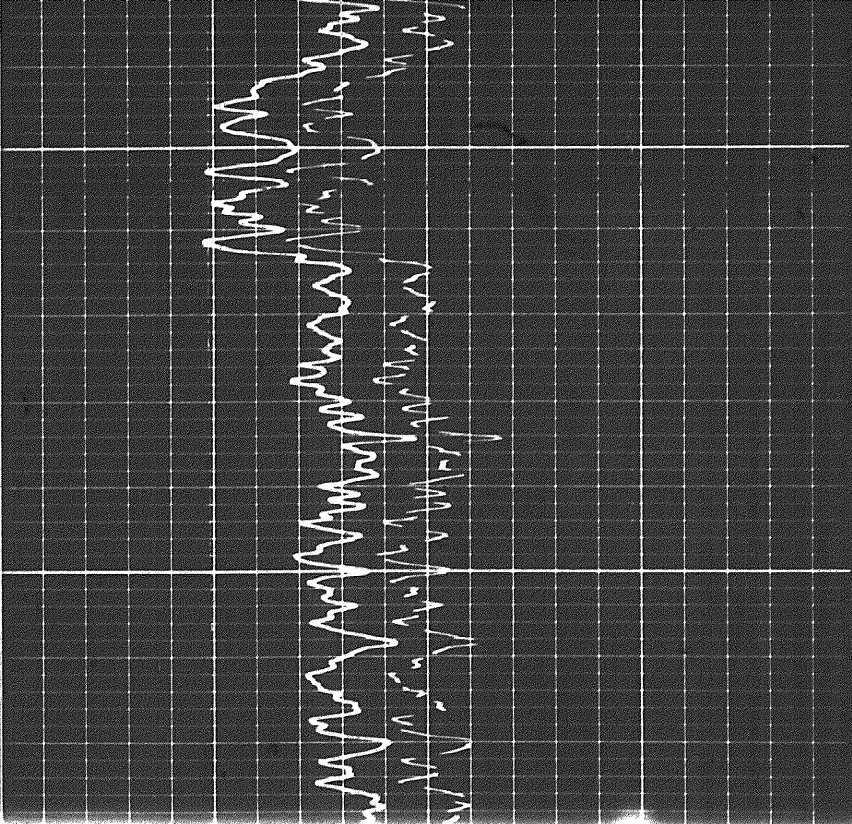
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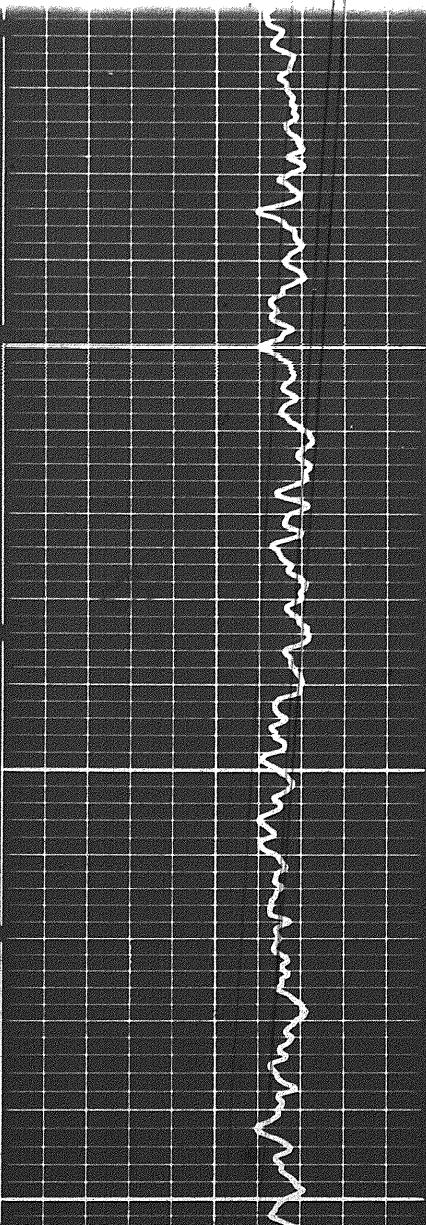
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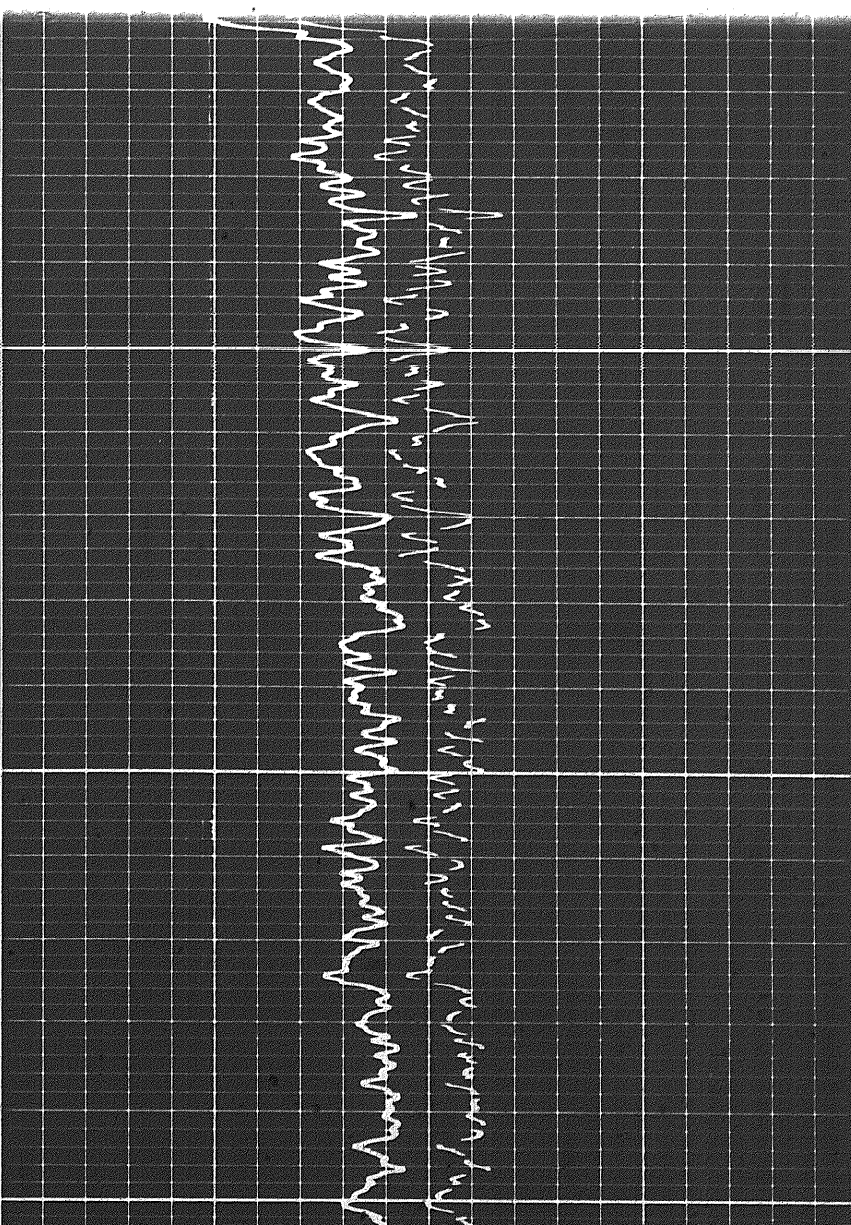
0060



6



1000



Speed in FPM

6 7 8 9 10 11 12 13 14

CALIPER
hole diameter in inches

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

150 300

GAMMA RAY
API UNITS

DEPTHS

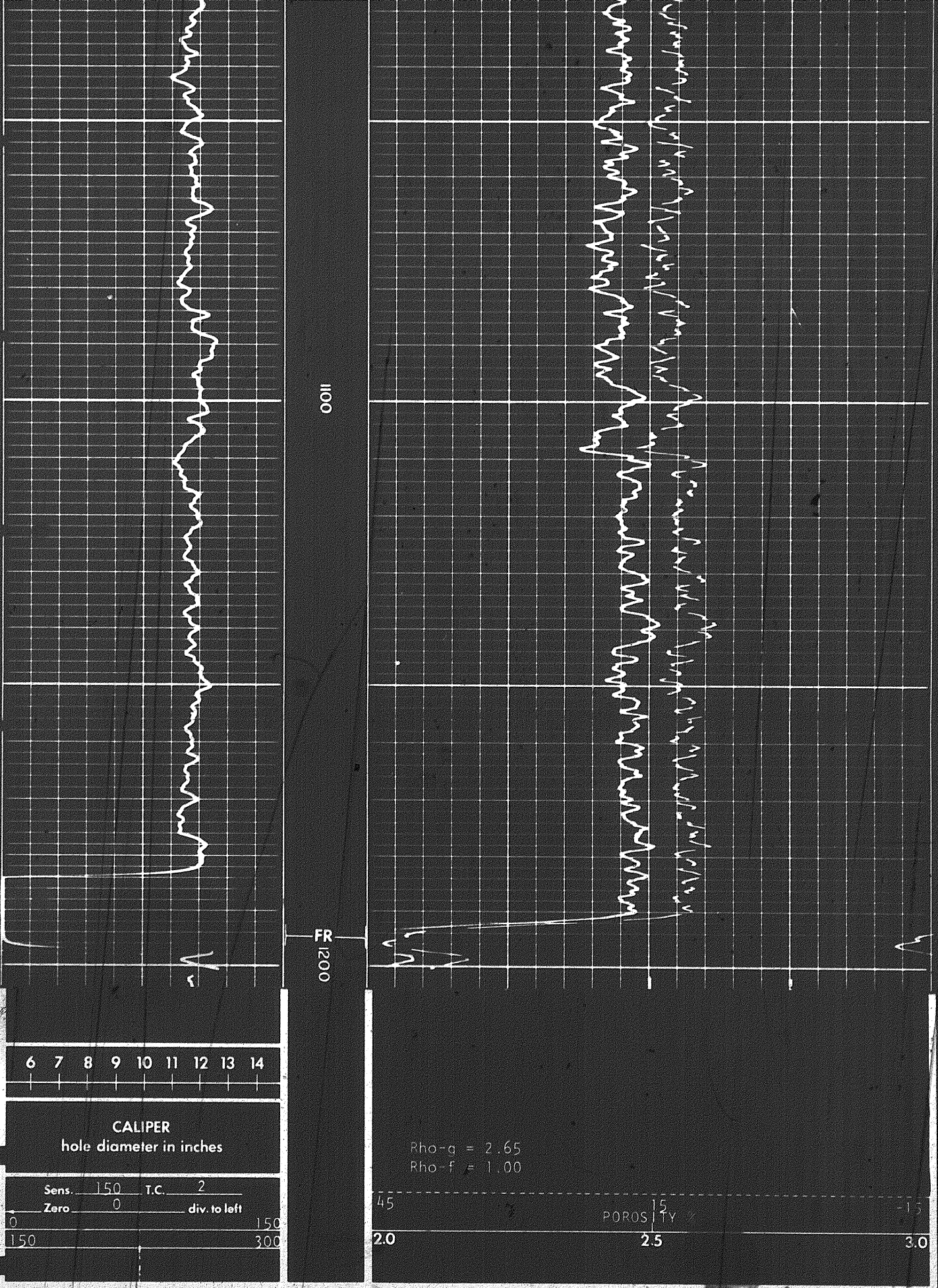
BULK DENSITY
 ρ_b - gm/cc

1100

FR 1200

Rho-g = 2.65
Rho-f = 1.00

45 15 15
POROSITY 2.5 3.0



Speed in FPM → 150 300 2.0 2.5 3.0

GAMMA RAY API UNITS DEPTHS BULK DENSITY ρ_b - gm/cc

DETAIL LOG 5" = 100' RUN 1

GAMMA RAY API UNITS DEPTHS BULK DENSITY ρ_b - gm/cc

Speed in FPM → Sens. 100 T.C. 2
Zero 0 div. to left
0 100
100 200

CALIPER hole diameter in inches

6 7 8 9 10 11 12 13 14

2.0 2.5 3.0

45 POROSITY % 15

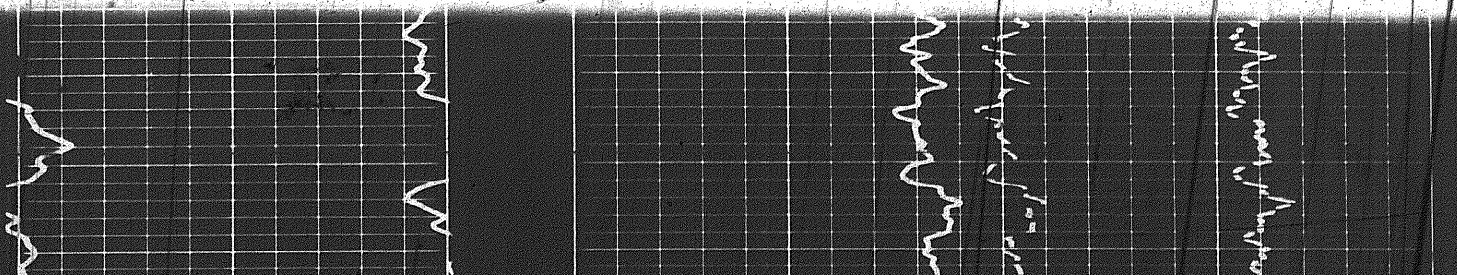
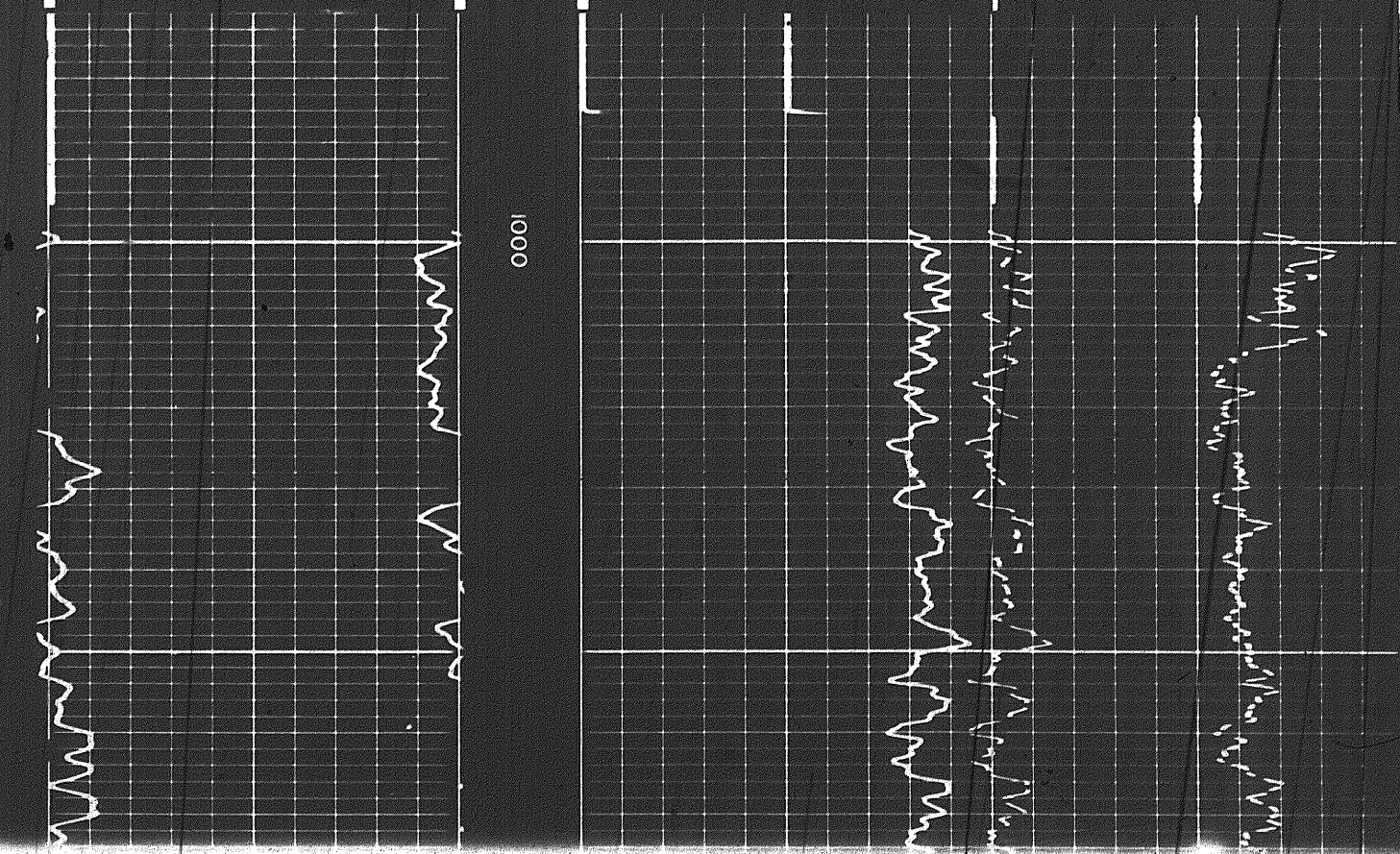
Rho-g = 2.65
Rho-f = 1.00

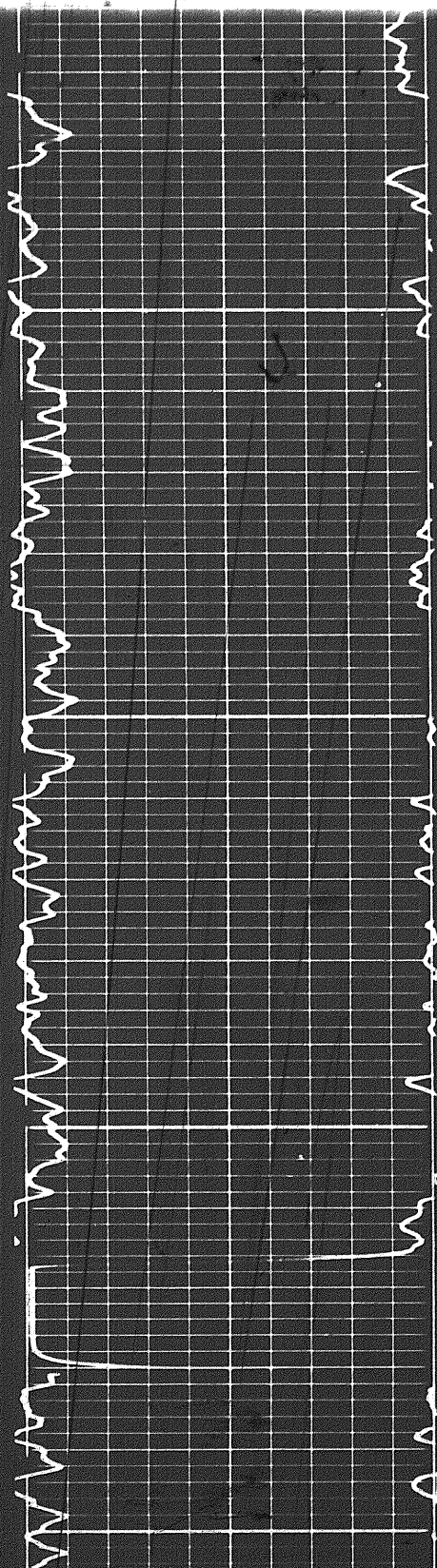
DENSITY CORRECTION $\Delta\rho$ - gm/cc

0.25 0 0.25
(-) (+)

1000

104





1100

R 1200

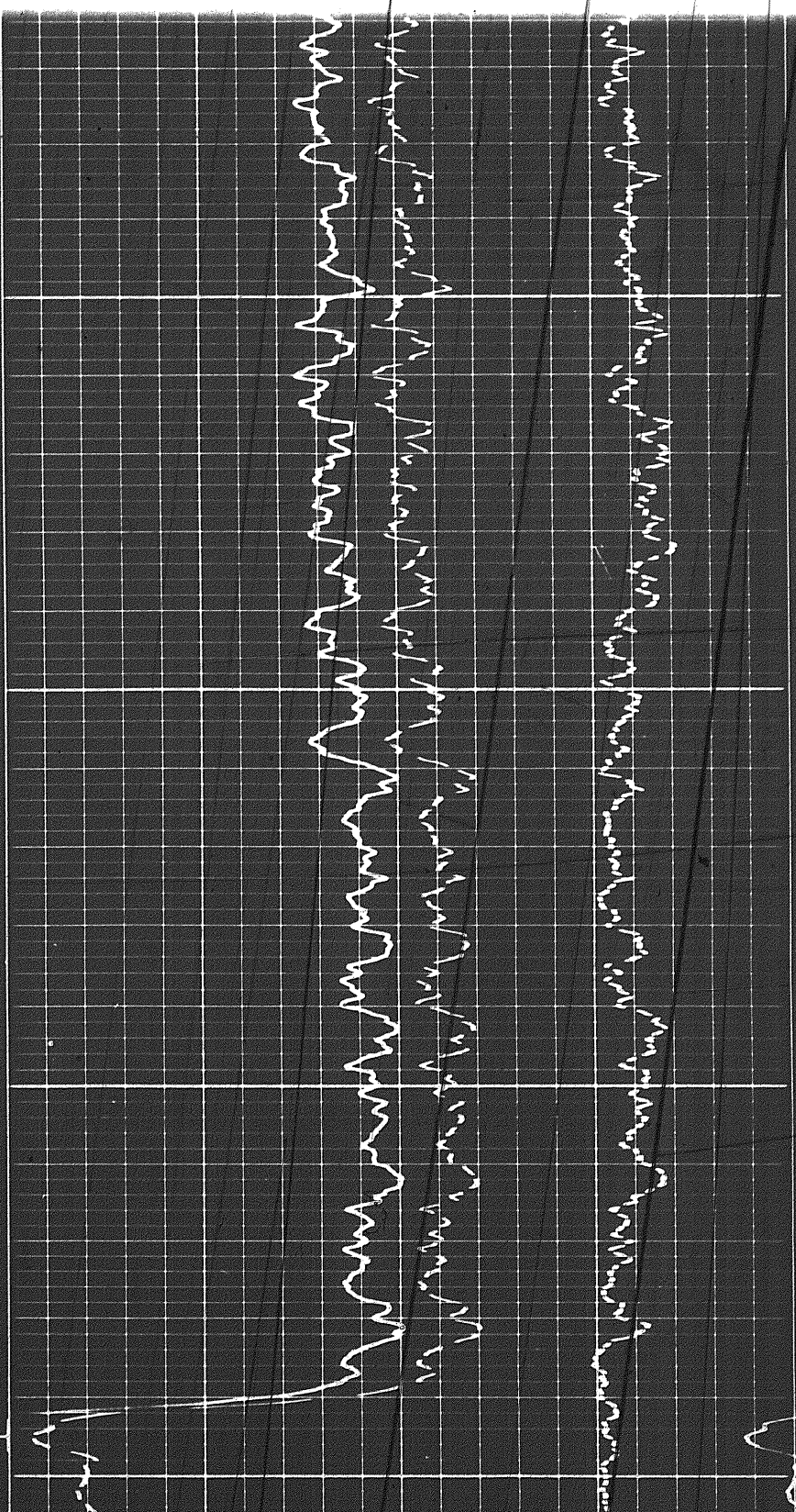
6 7 8 9 10 11 12 13 14

CALIPER
hole diameter in inches

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

100 200

Speed in FPM



$\rho_{ho-g} = 2.65$
 $\rho_{ho-f} = 1.00$

(-) 0.25 0 0.25 (+)

DENSITY CORRECTION
 $\Delta P - gm/cc$

45 15 -15
POROSITY %

2.0 2.5 3.0

CALIPER
hole diameter in inches

Sens. 100 T.C. 2

Zero 0 div. to left

0 100
100 200

Speed in FPM

Rho-g = 2.65
Rho-f = 1.00

DENSITY CORRECTION
 ΔP - gm/cc

45 15 -15
POROSITY %
2.0 2.5 3.0

GAMMA RAY
API UNITS

DEPTH

BULK DENSITY
 ρ_b - gm/cc

DETAIL LOG
5" = 100'

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

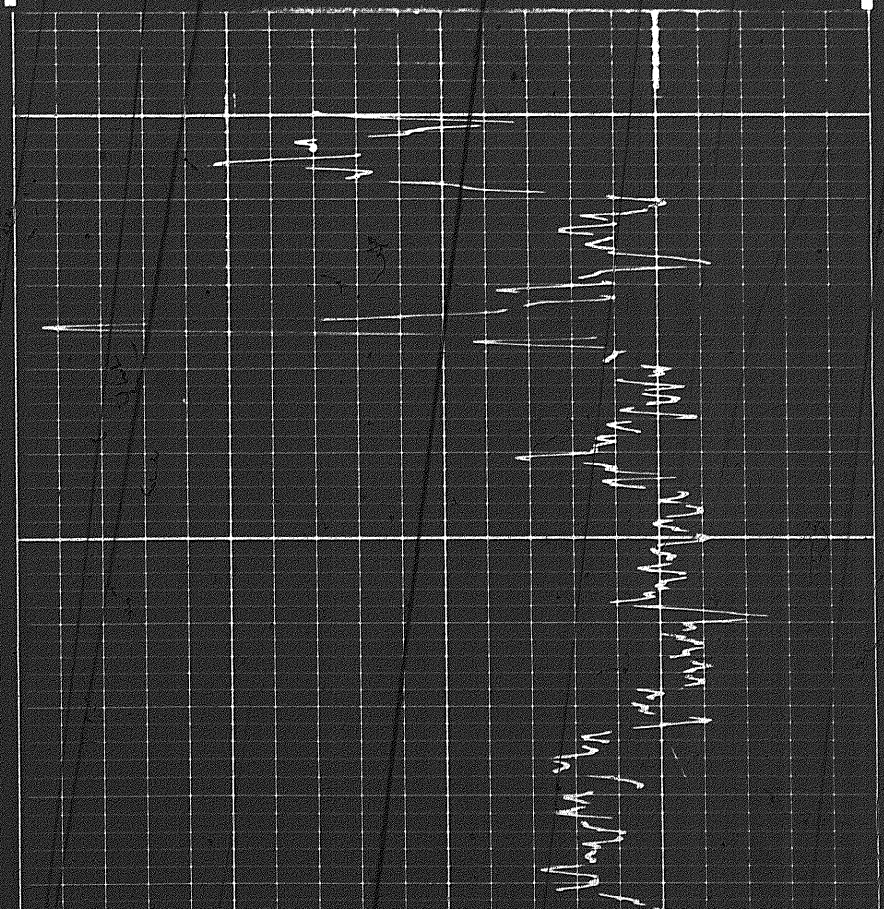
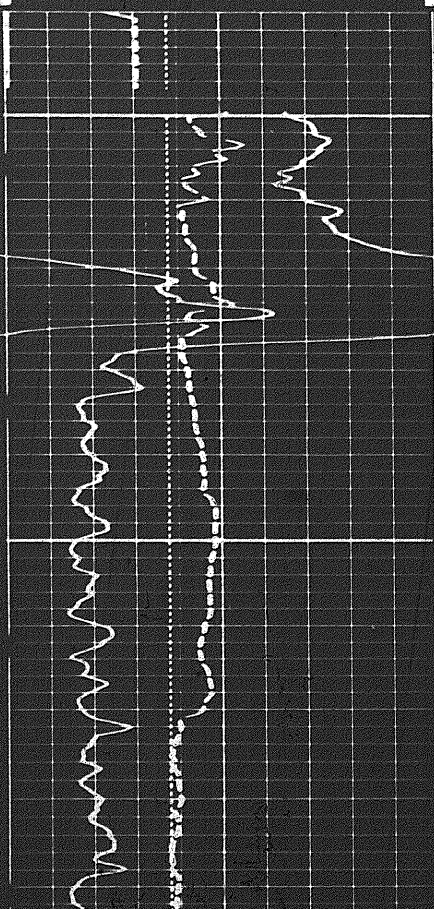
0 100
100 200

Speed in FPM

LIMESTONE
30 20 10 0 -10

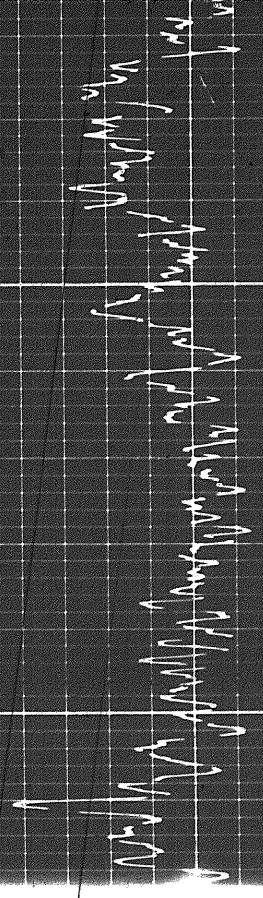
Rho-g = 2.71
Rho-f = 1.00

8300

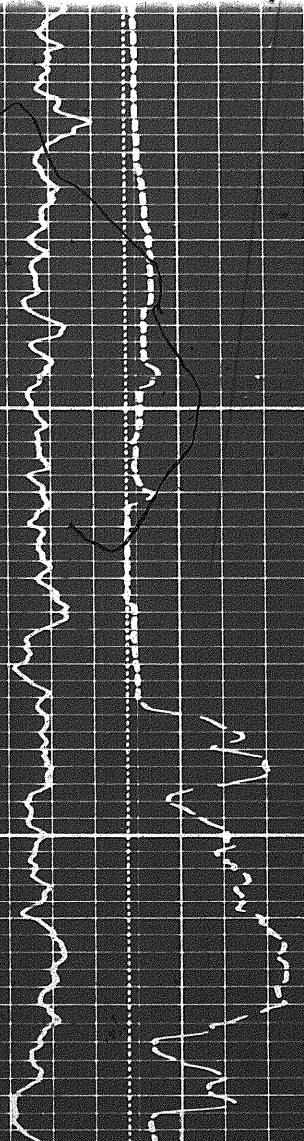
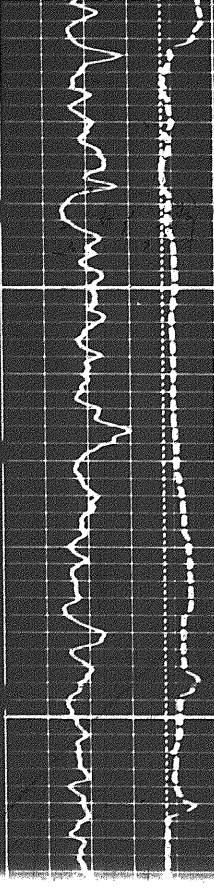
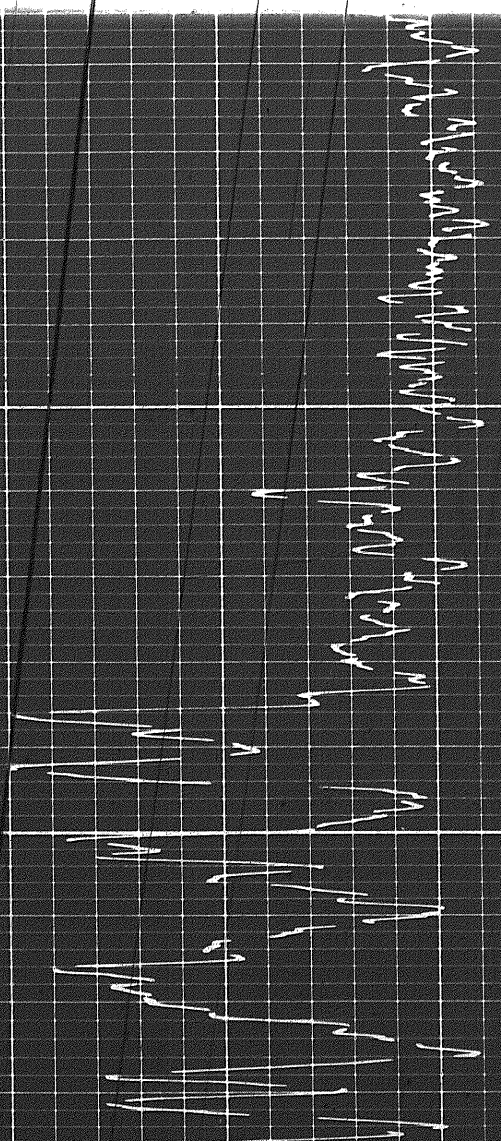


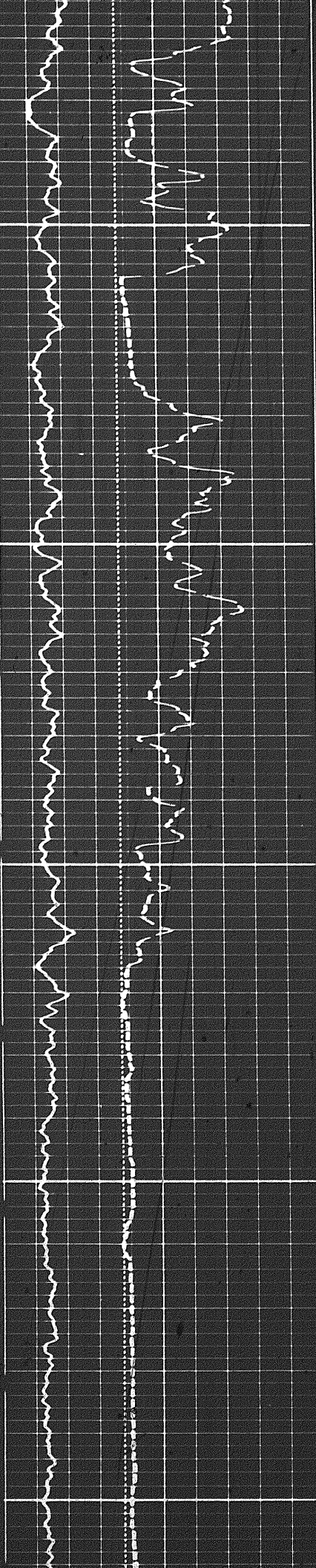
114

8400



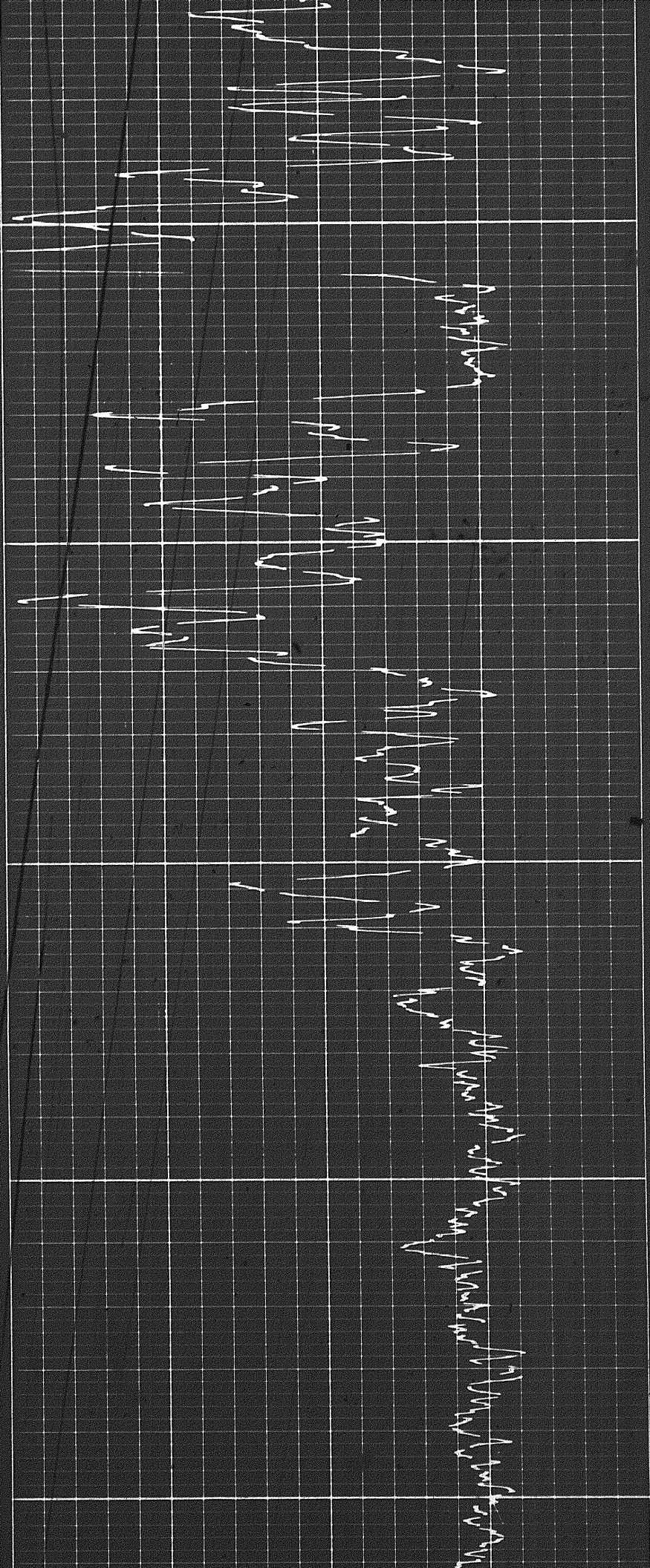
8500



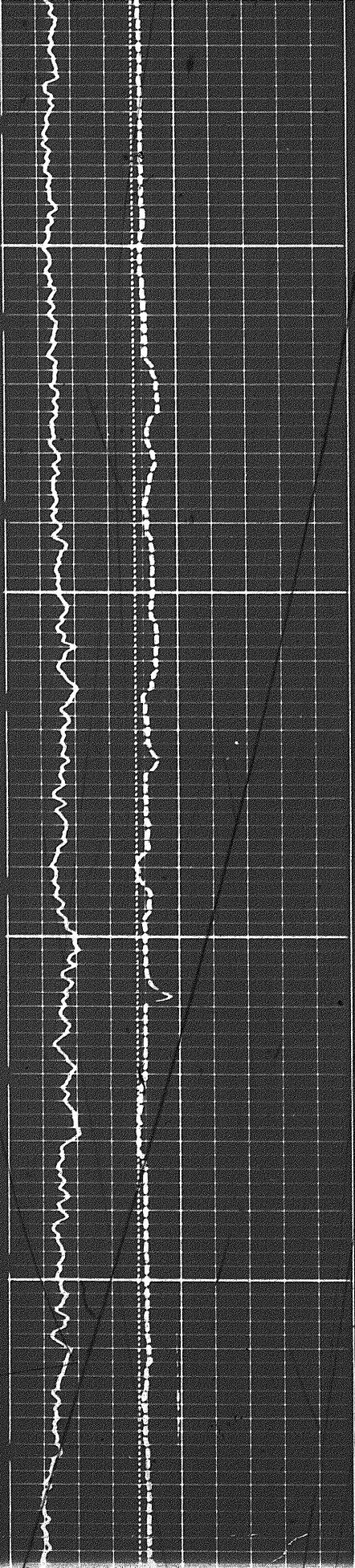


8600

8700

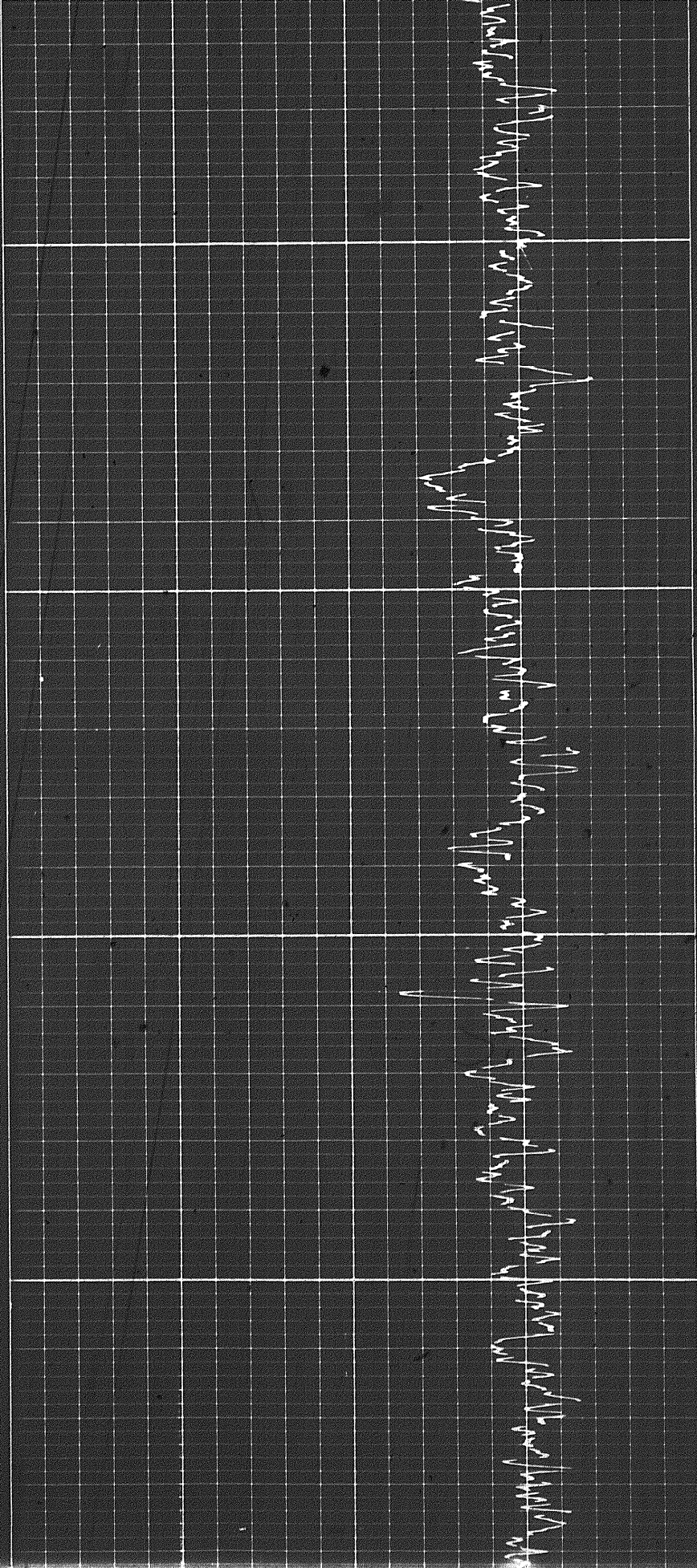


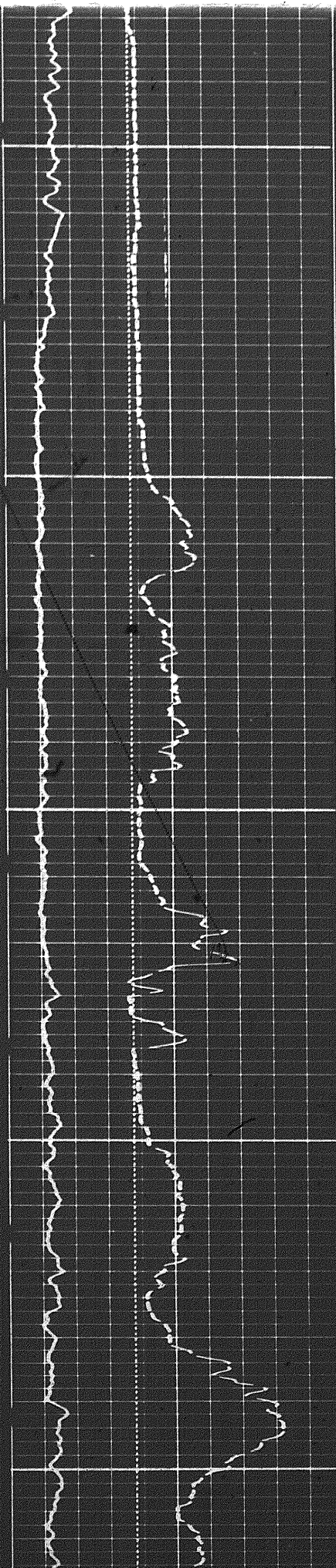
129



0088

8900

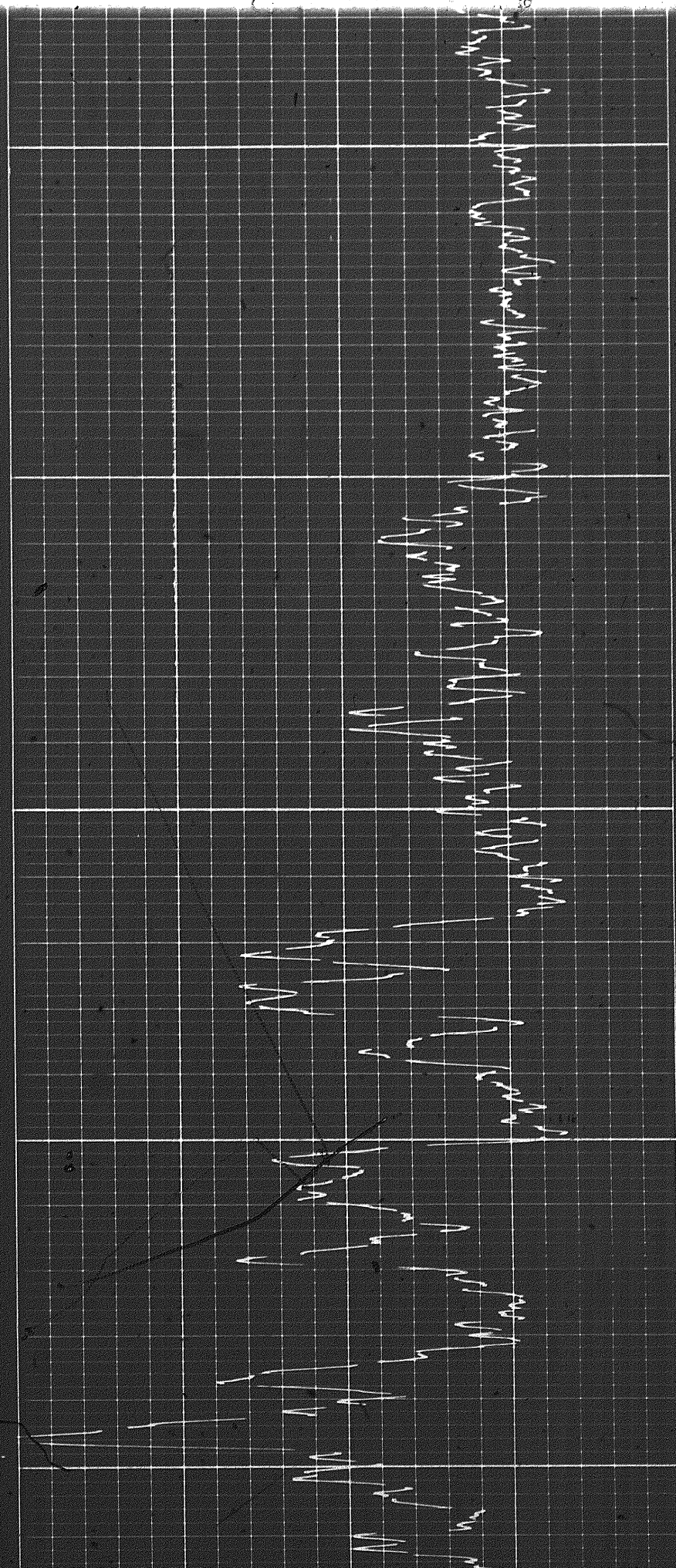




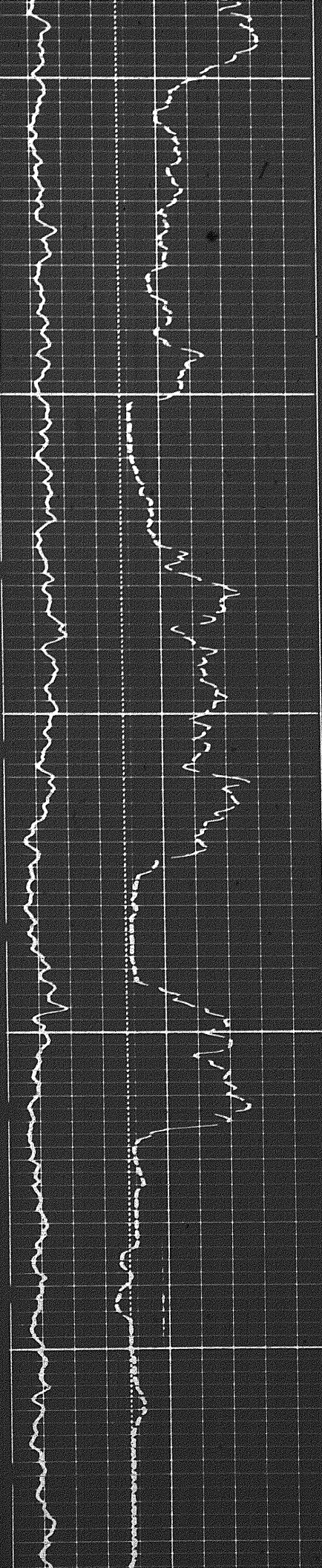
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0006

0015



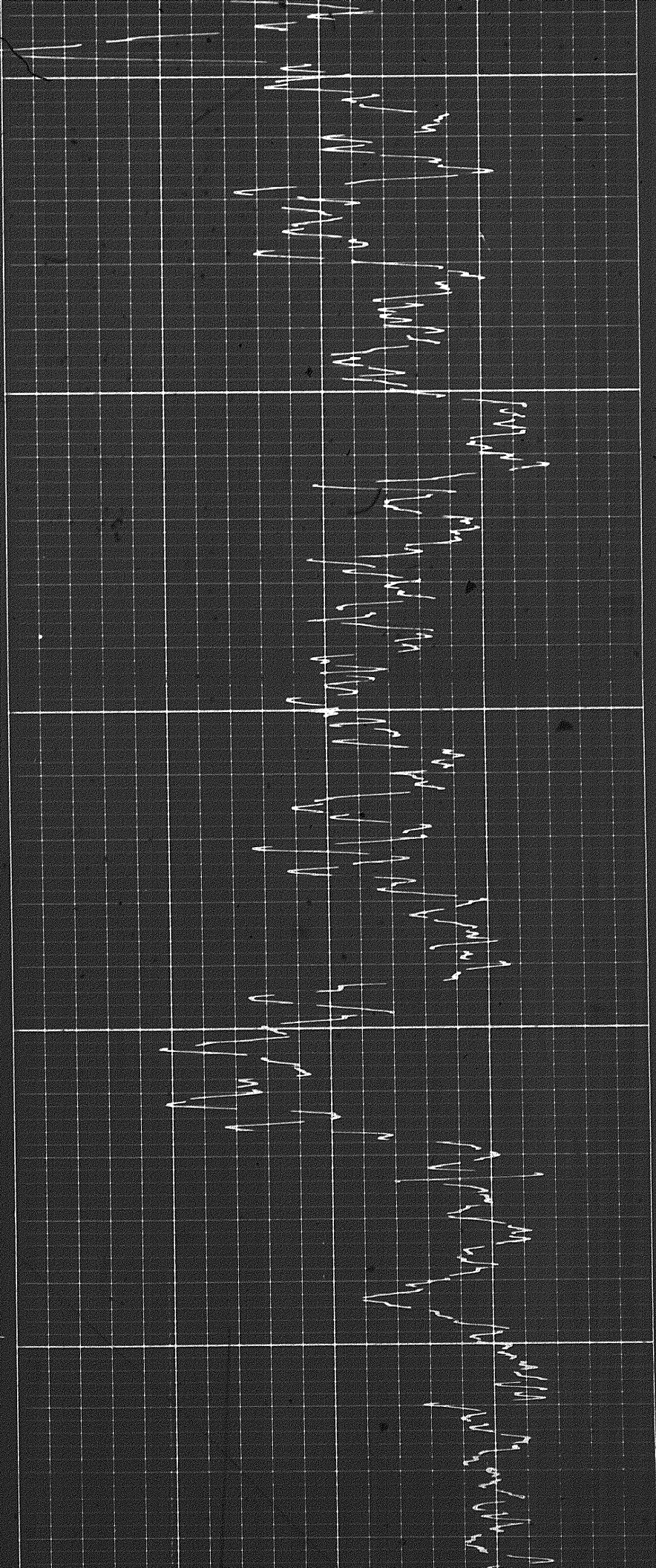
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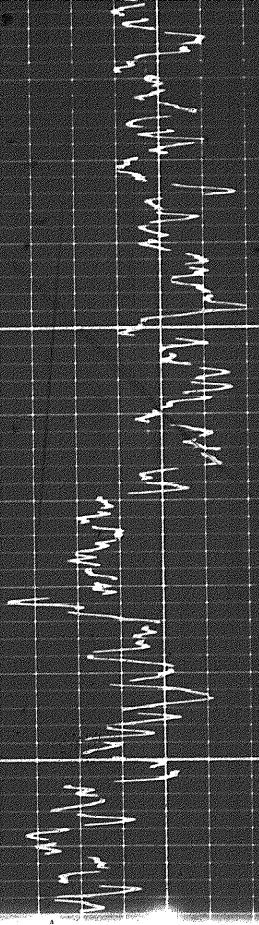


9100

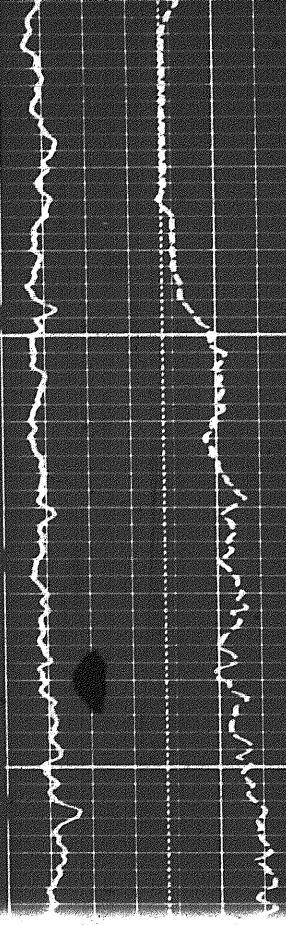
9200

9300

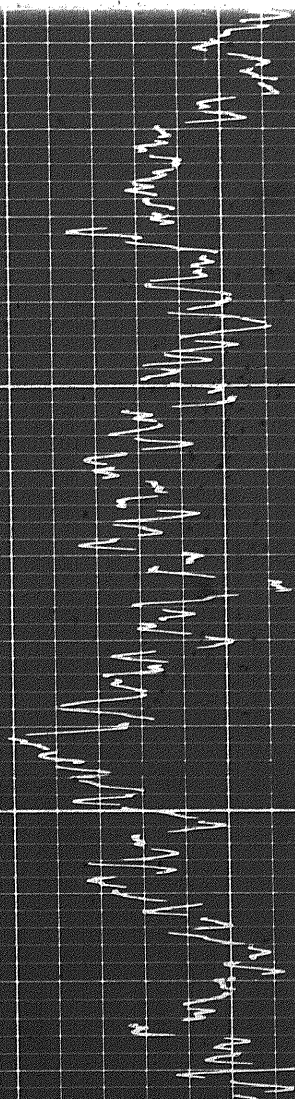




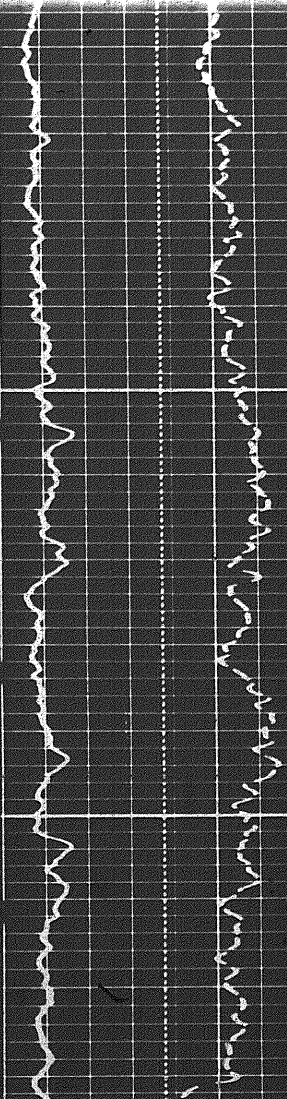
9400

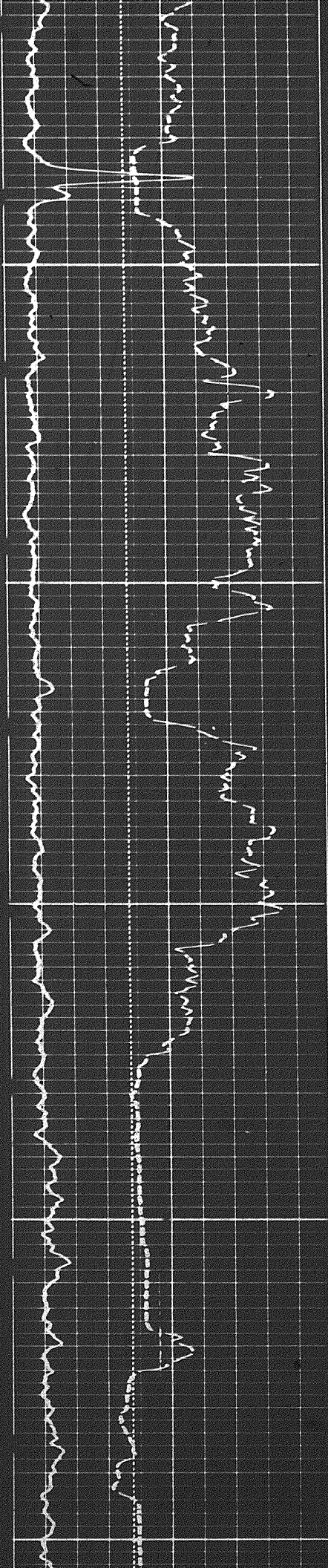


134



9400

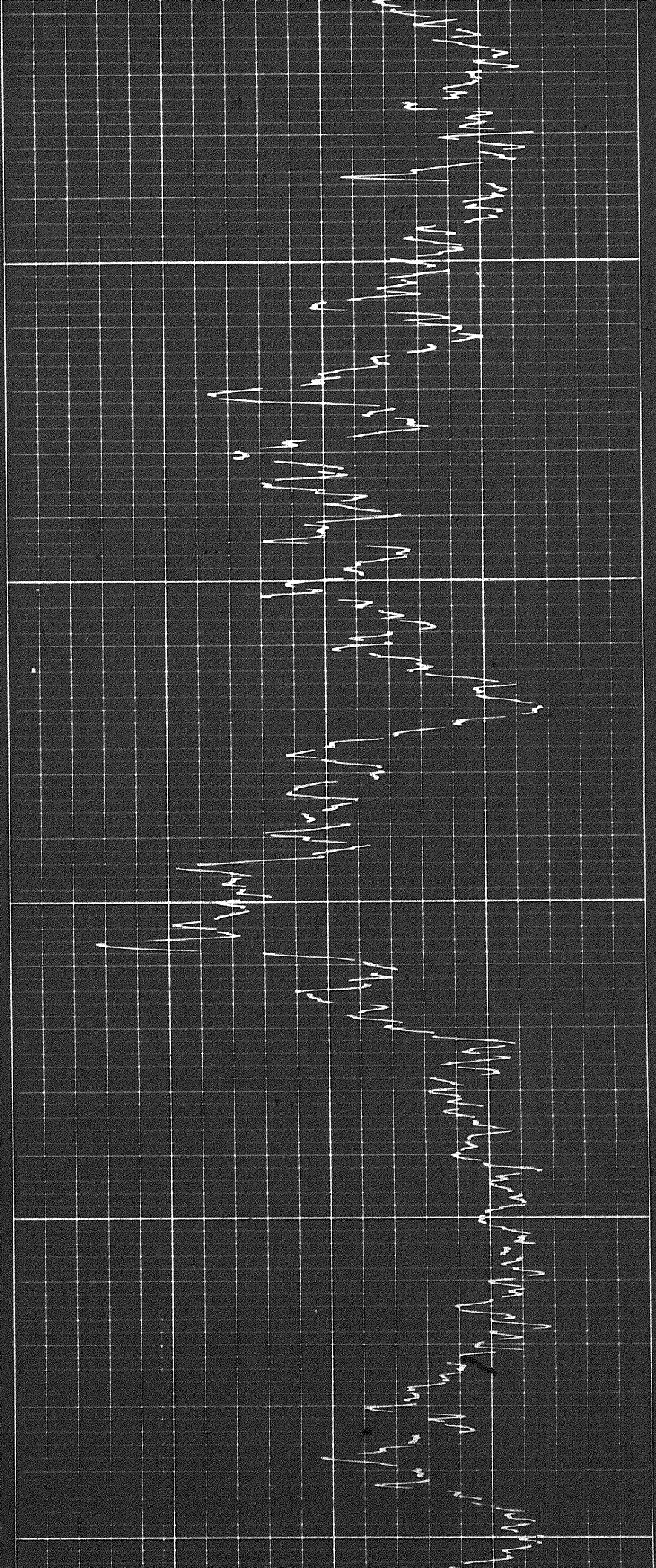




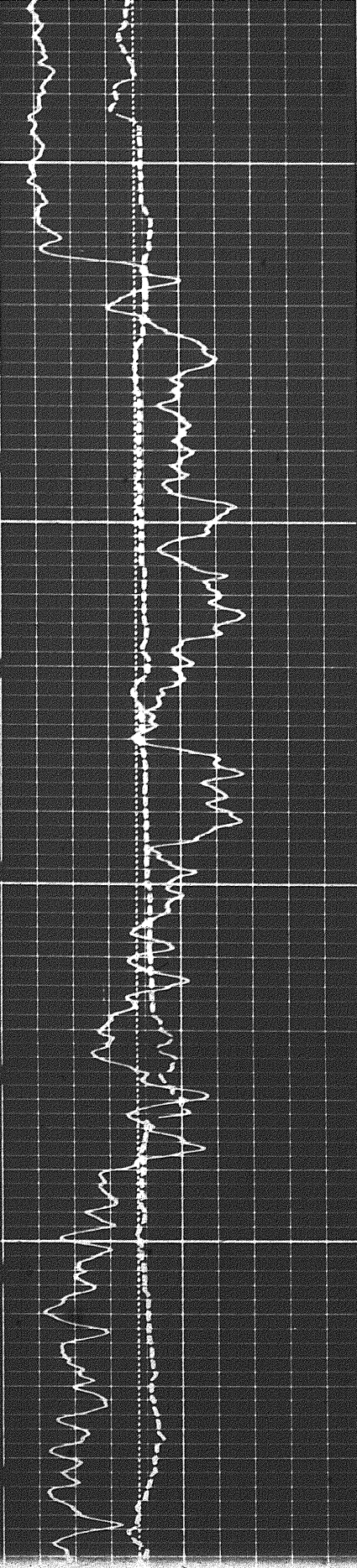
9500

9600

9700

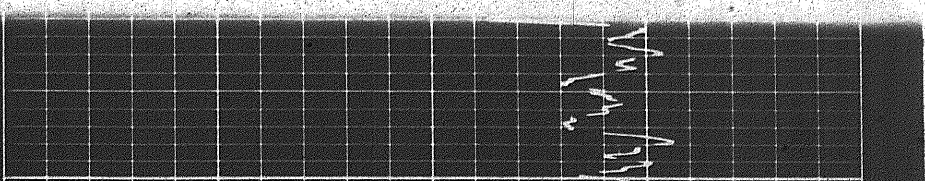
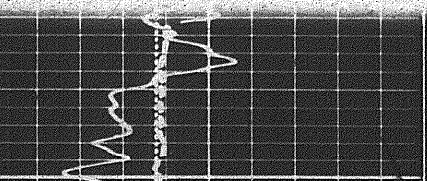
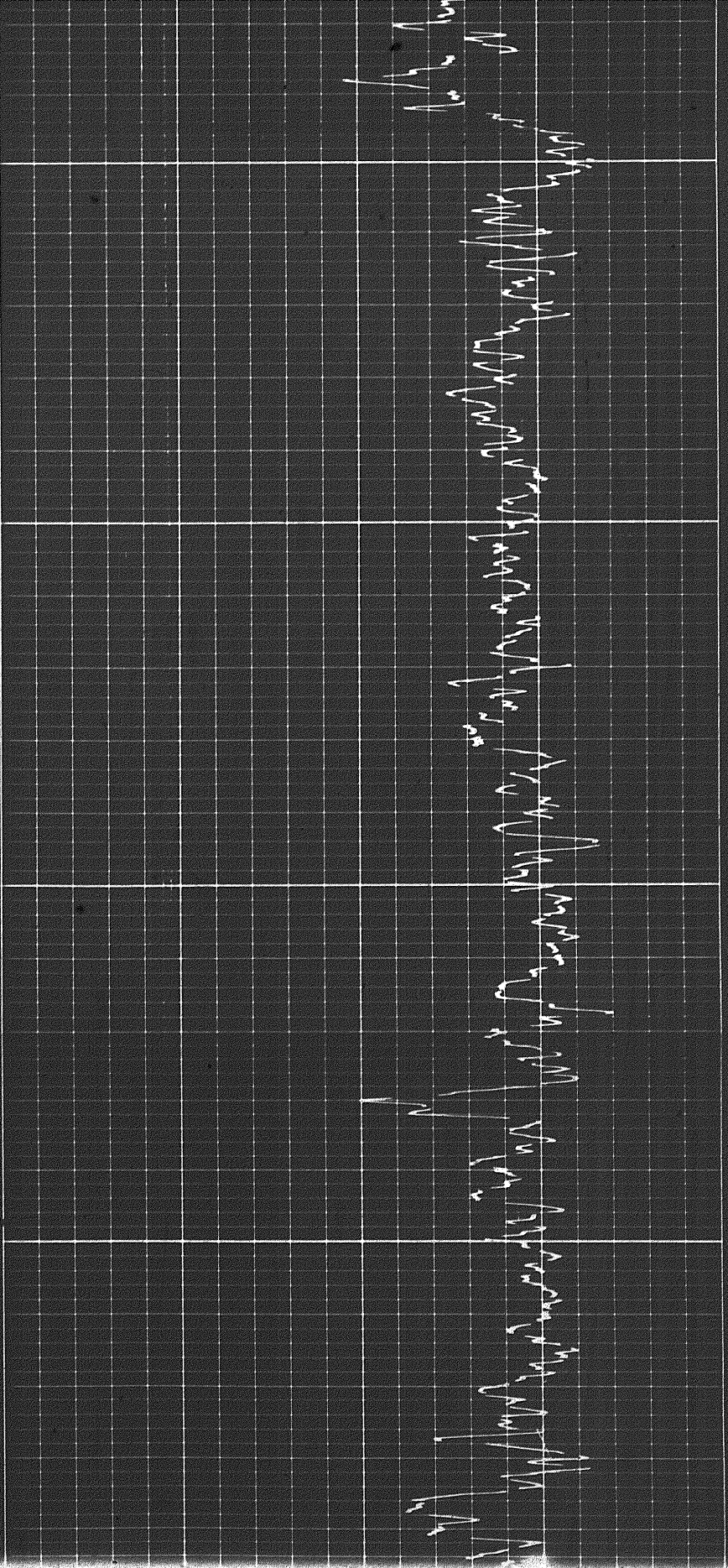


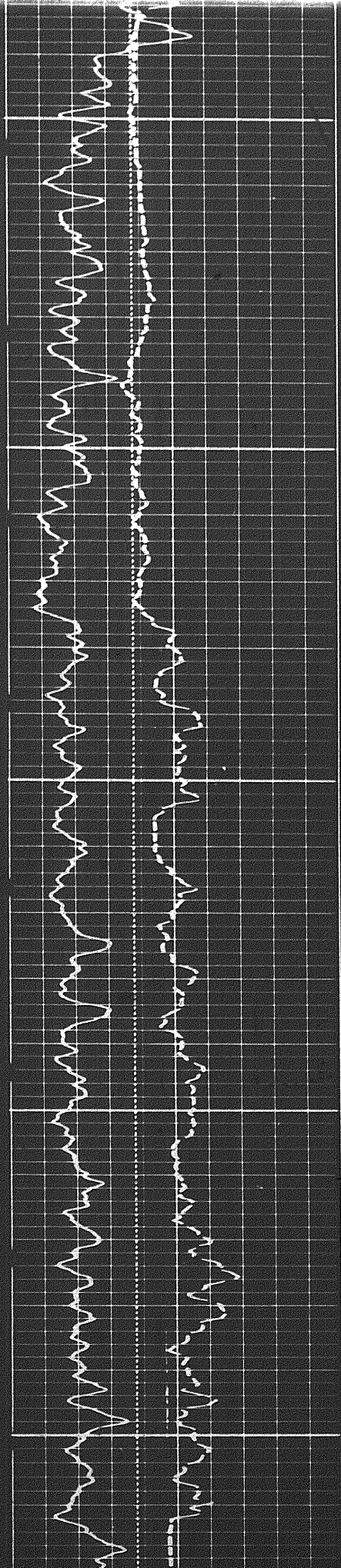
phd



9700

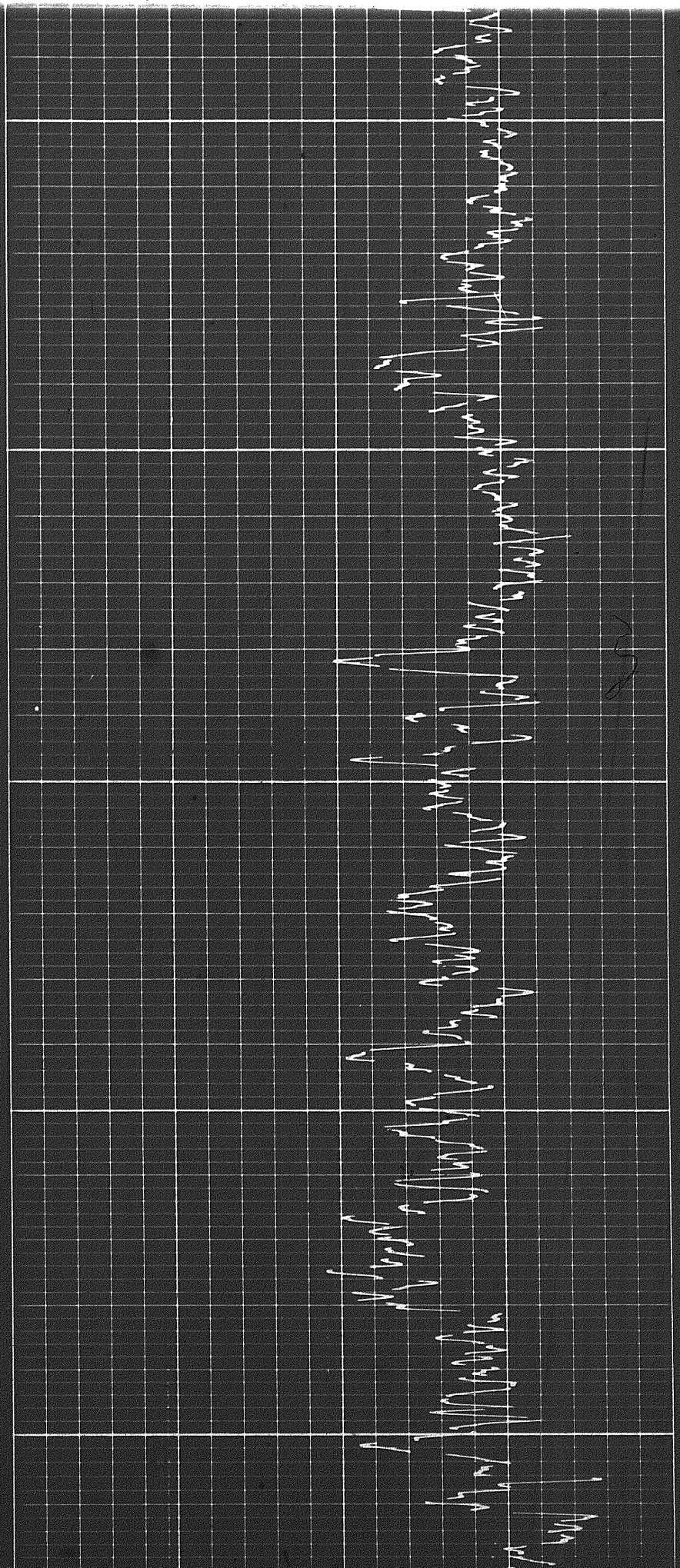
9806

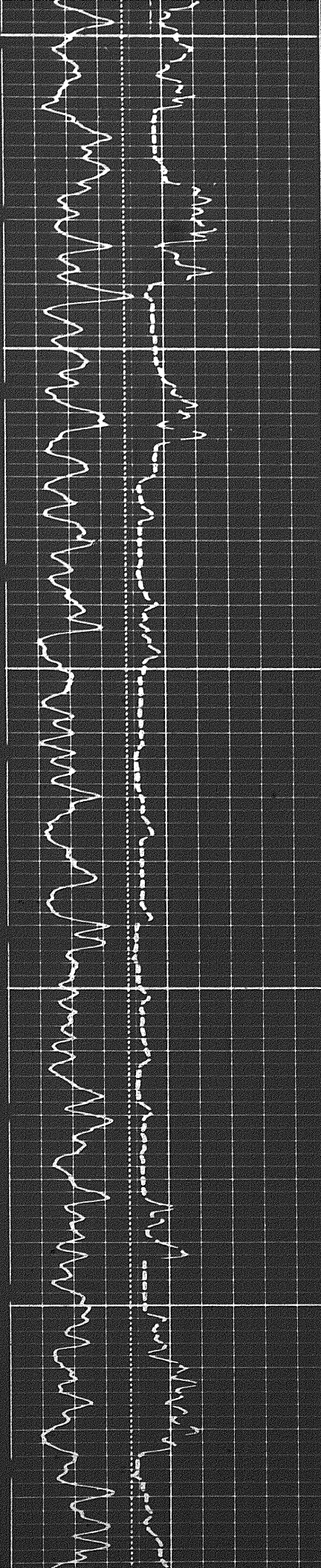




0055

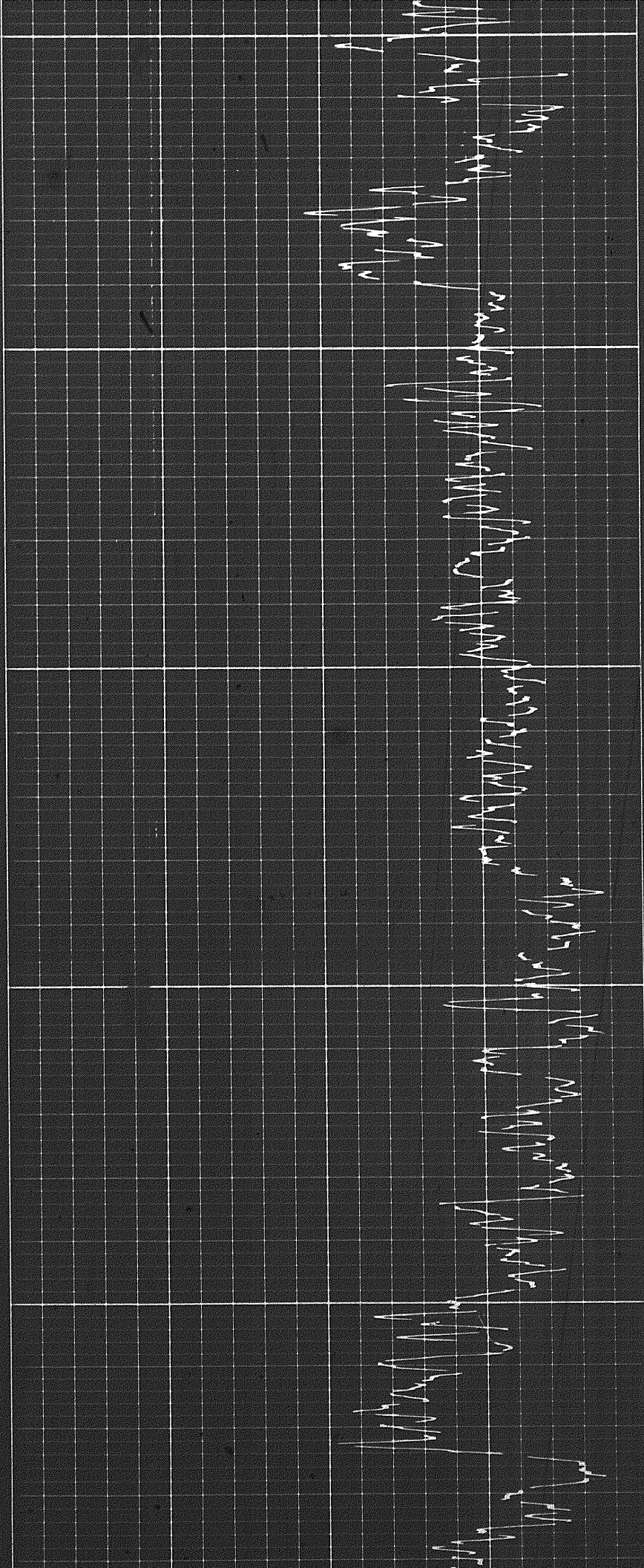
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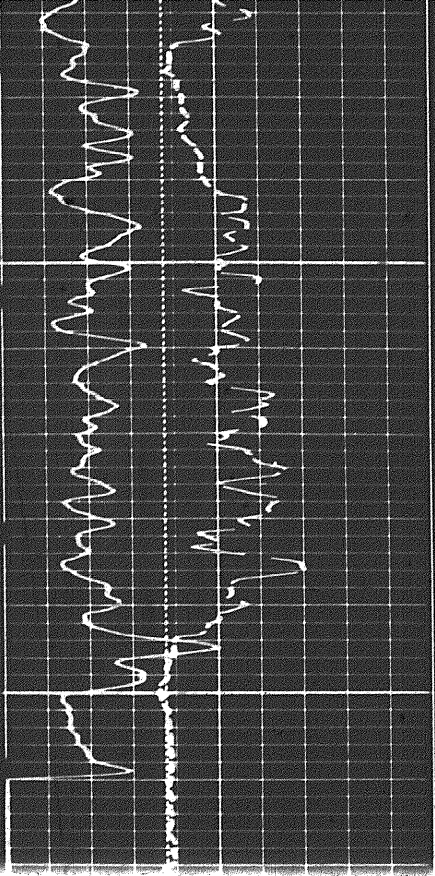


10X00

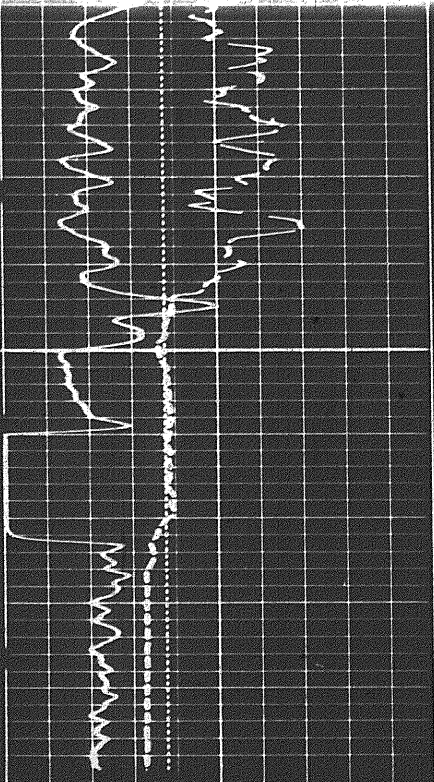
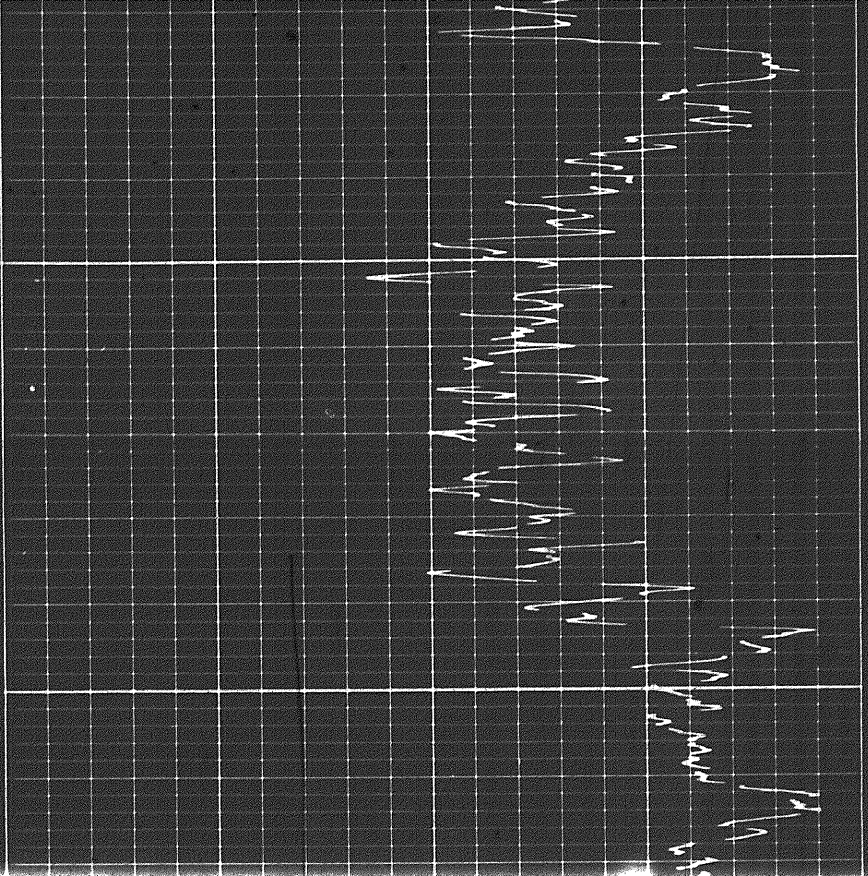
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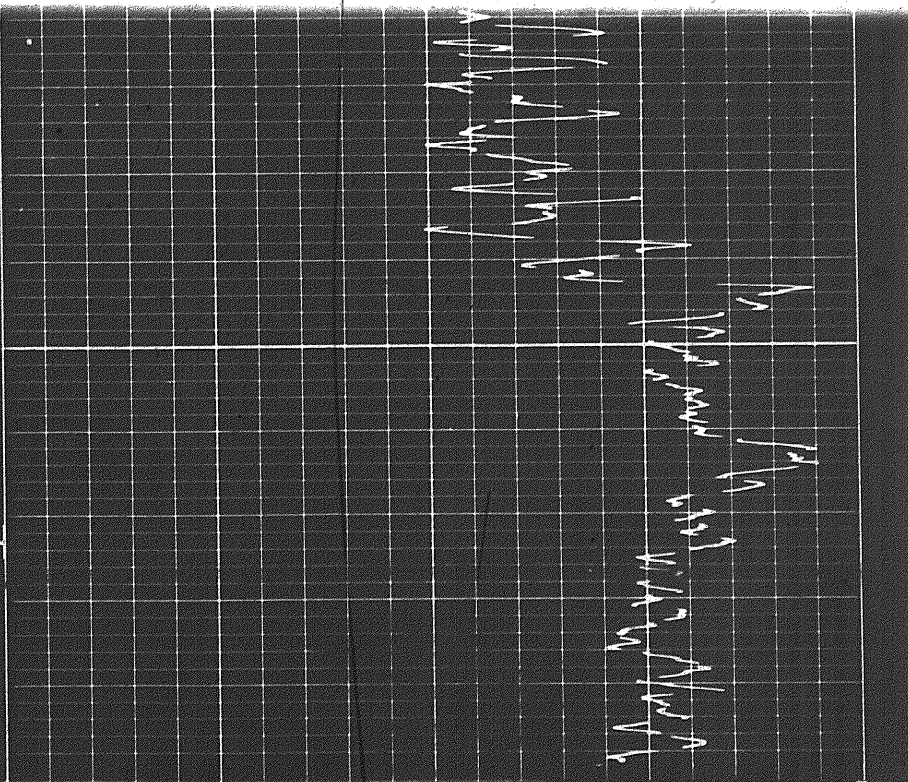
15d



10390



FR



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

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

GAMMA RAY
 API UNITS

Speed in FPM

6 7 8 9 10 11 12 13 14

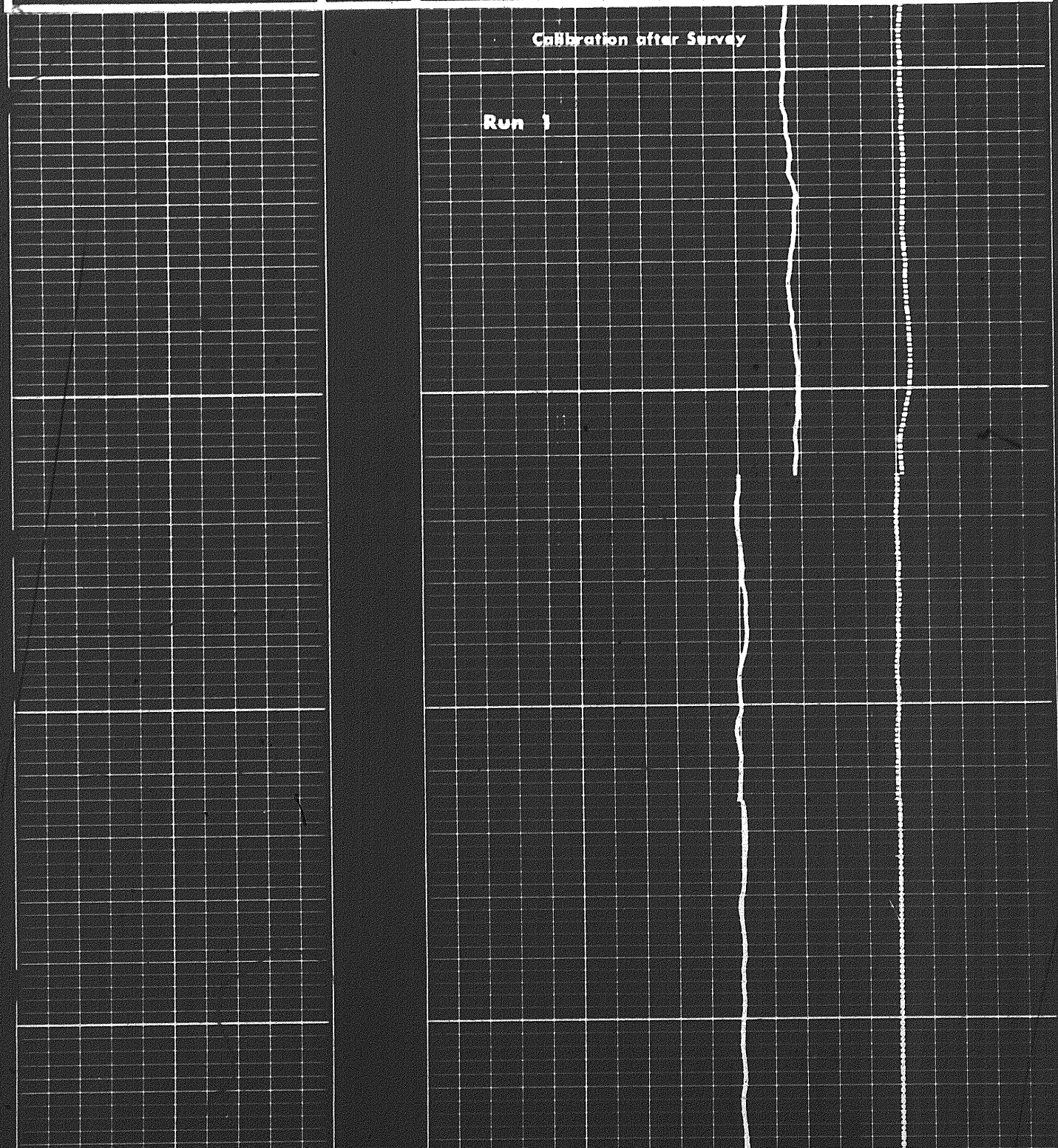
Rho-g = 2.71
 Rho-f = 1.00

30 20 10 0 -10
 LIMESTONE

CALIPER
 hole diameter in inches

DEPTH

POROSITY (%)

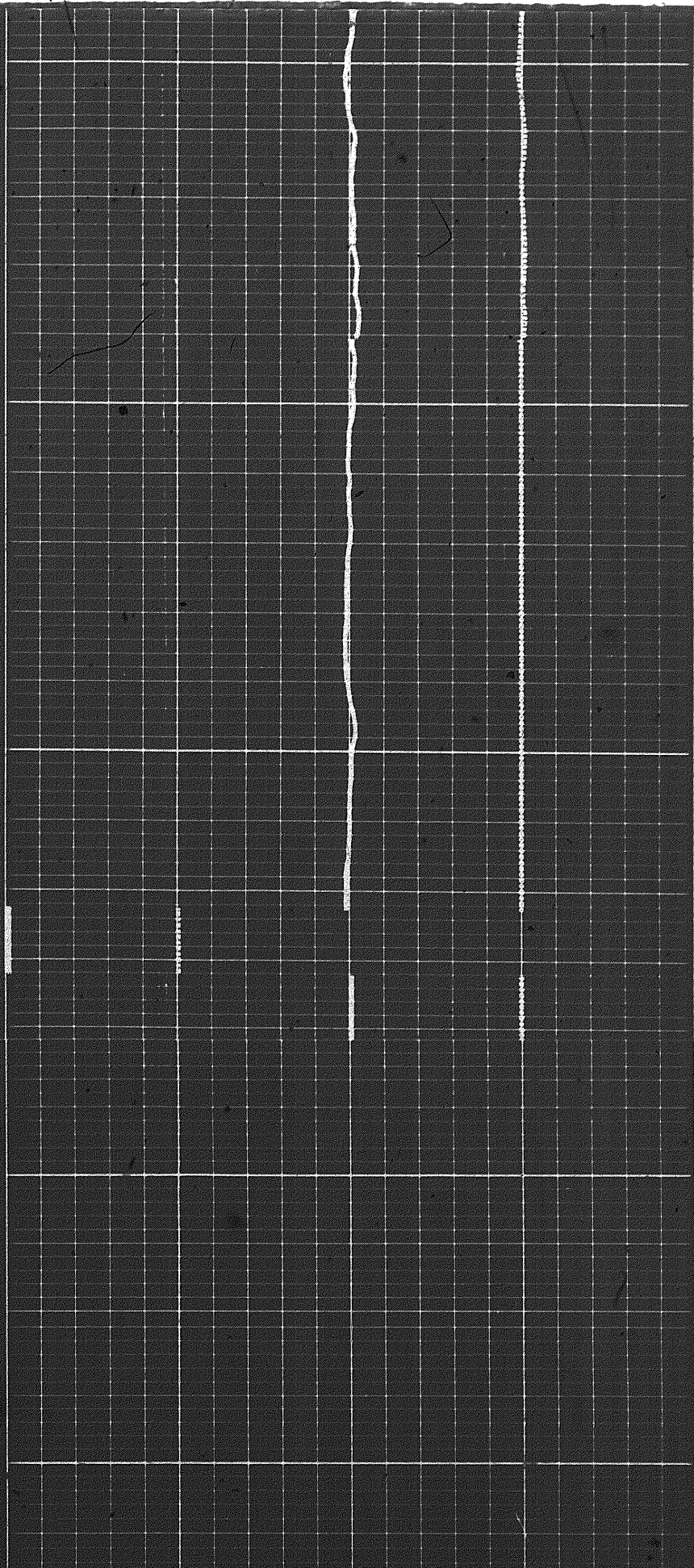


Calibration before Survey

169

Gamma Ray Cal
@ API Units

Gamma Ray Background



Calibration after Survey

Run 2

Calibration before Survey

Vertical scale markings on the right side of the grid, including a vertical line and a series of small tick marks.

Calibration before Survey

Test Panel

COMPANY CHEVRON STANDARD LIMITED

WELL SOBC WM SHAEFFER CK YT 0-22

FIELD WILDCAT PROVINCE YUKON TERRITORIES

SCHLUMBERGER

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