

SCHLUMBERGER

COMPENSATED FORMATION DENSITY LOG

SCHLUMBERGER OF CANADA Calgary Alberta

PROVINCE YUKON TERRITORIES
 FIELD WILDCAT
 WELL SKELLY GETTY MOBIL ARCTIC YT C-60
 COMPANY SKELLY OIL OF CANADA LTD.

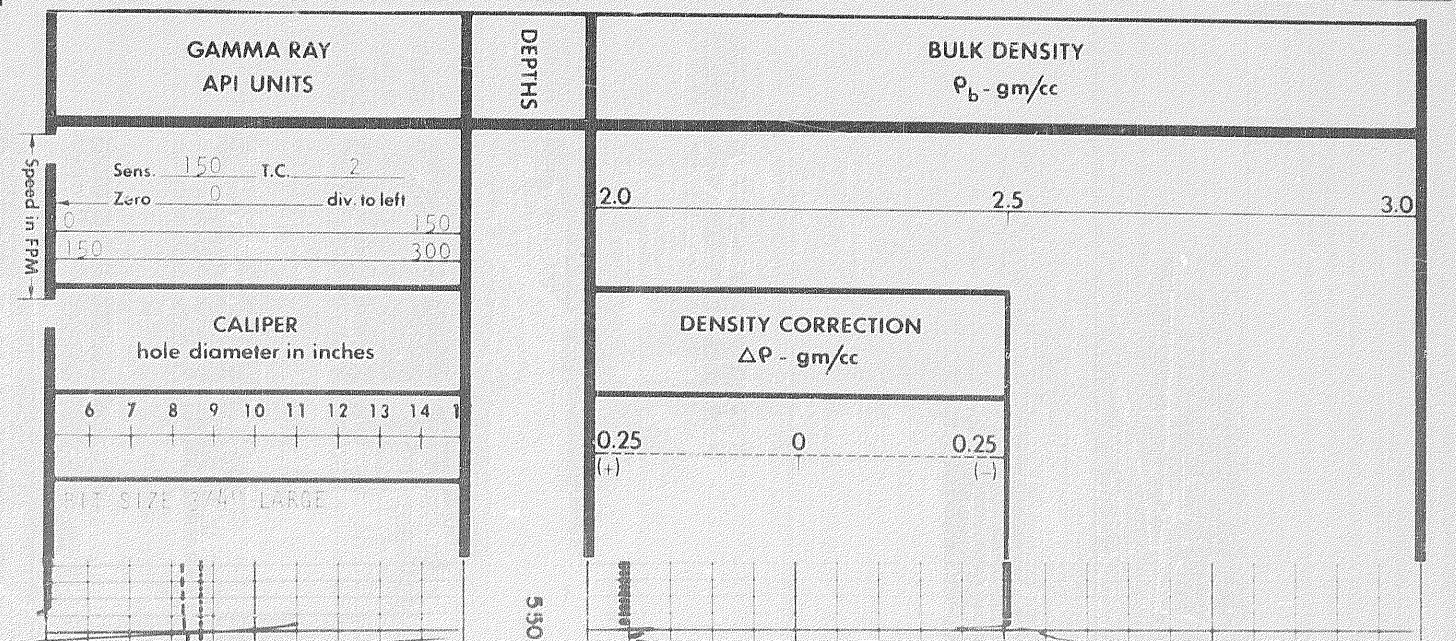
COMPANY SKELLY OIL OF CANADA LTD.
 WELL SKELLY GETTY MOBIL ARCTIC RED YT C-60
 FIELD WILDCAT
 PROVINCE YUKON TERRITORIES
 LOCATION 66° 49' 00" N LAT
 133° 55' 19" W LONG
 Permanent Datum GL Elev. 285
 Log Measured from KB 17 Ft. Above Perm. Datum
 Other Services: SLC-GR, DIL, SNP
 ELEV. KB 302
 GL 285
 CBF

Date	13 MAR 72
Run No.	ONE
First Reading	8527
Last Reading	5500
Feet Measured	3027
Depth Reached	8528
Bottom Driller	8531
Csg. SOC	1202
Csg. Driller	1202
Mud Nature	FRESH-GEL
Dens Visc	8.7 53
Mud pH	9.7
Water Loss	9.4
Res	5.10 @ 65 °F
Rml	3.90 @ 70 °F
@ BHT	1.80 @ 163 °F
Rmc	6.1 @ 68 °F
p-pm - Cl	
Bit Size	8 3/4"
Source to Detector	
Spotting	16"
Equipment Type	GAMMA-GAMMA
Op. Rig Time	5 HRS
Truck No.	OSU-C 343 REM
Recorded By	WILSON
Witness	SUTHERBY & HAWKINSON

REMARKS
 Drilling Stopped 1900 / 12th : Circulation Stopped 2100 / 12th : Tool on Bottom 1000 / 13th : 1st Run Service Order # B.H.T. 163 °F

Panel No. EA320
 Cartridge No. A340
 Sonde No. E484
 Detector No. A 88
 DRILL STEM TEST
 DST#1 Rw = 0.067 @ 62°F (7565)

CALIBRATION: Background CPS 20 Test Source CPS 400 Galvanometer Deflection Div. 10.0 Panel Sens. Tap for Cal. 165



CALIPER
hole diameter in inches

6 7 8 9 10 11 12 13 14 15

FIT SIZE 3/4" LARGE

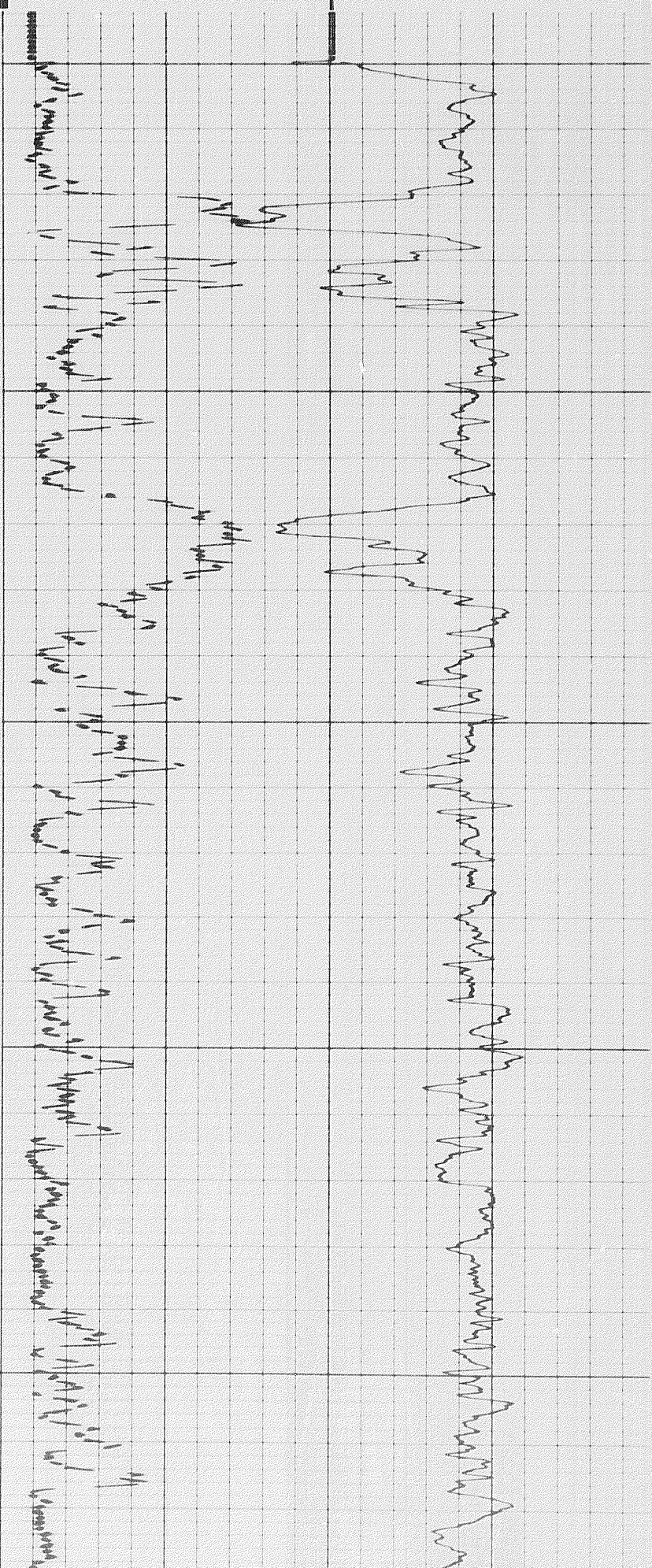
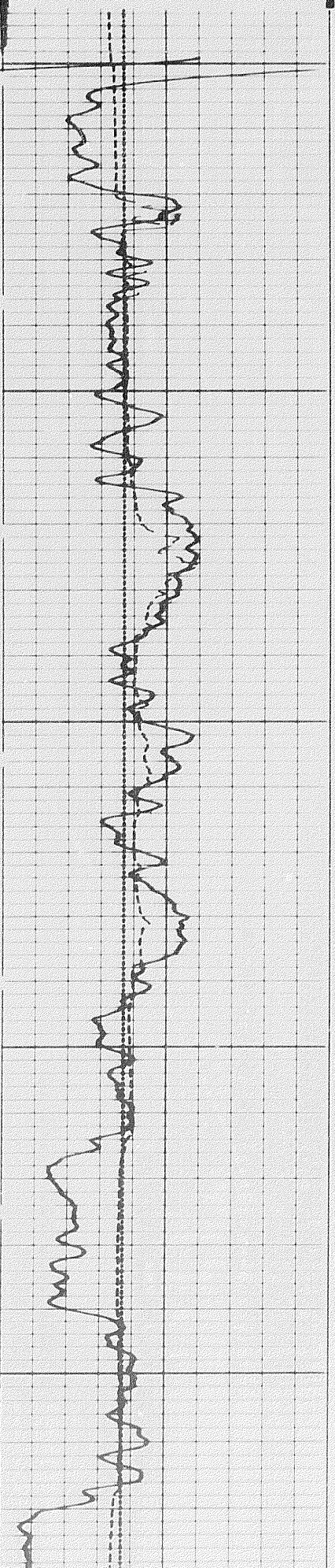
DENSITY CORRECTION
 $\Delta\rho - \text{gm/cc}$

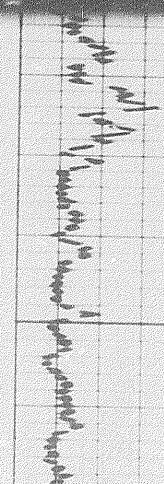
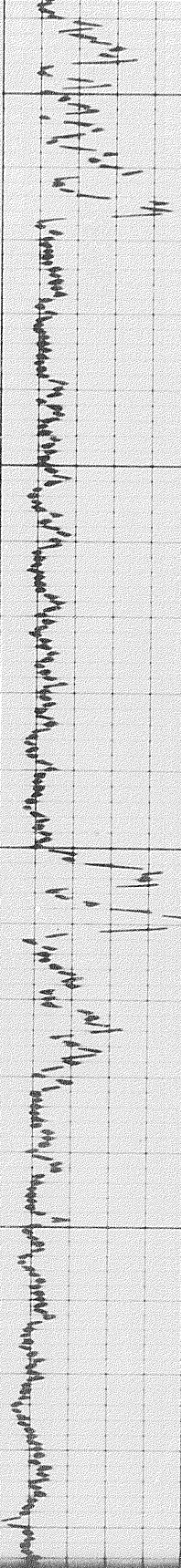
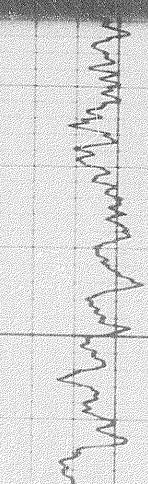
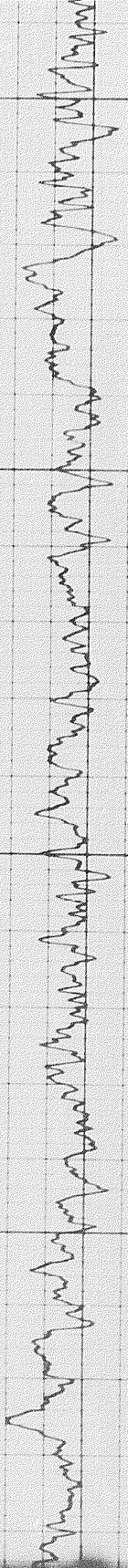
0.25 0 0.25
(+) (-)

5300

5600

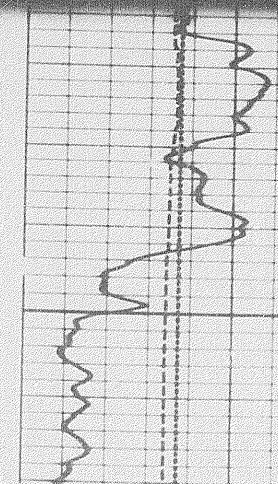
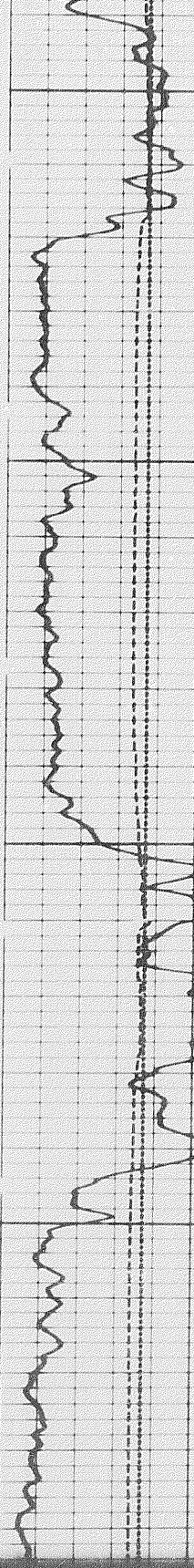
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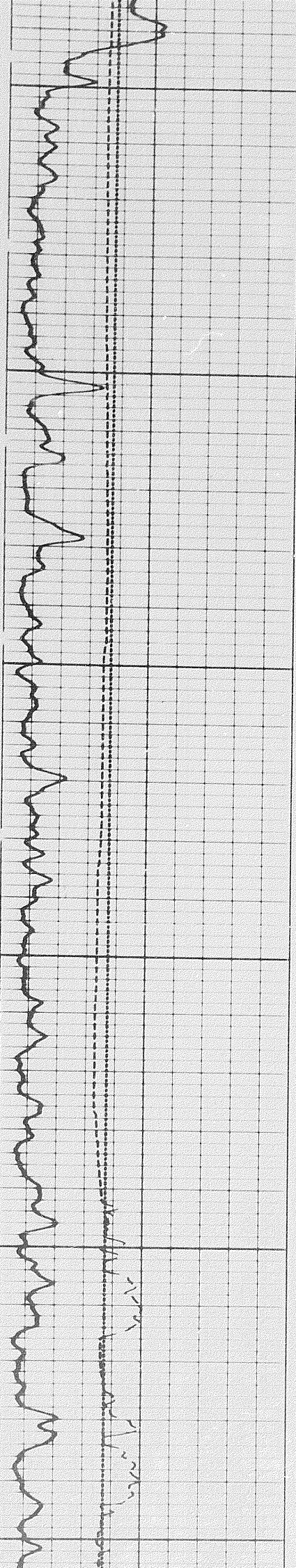


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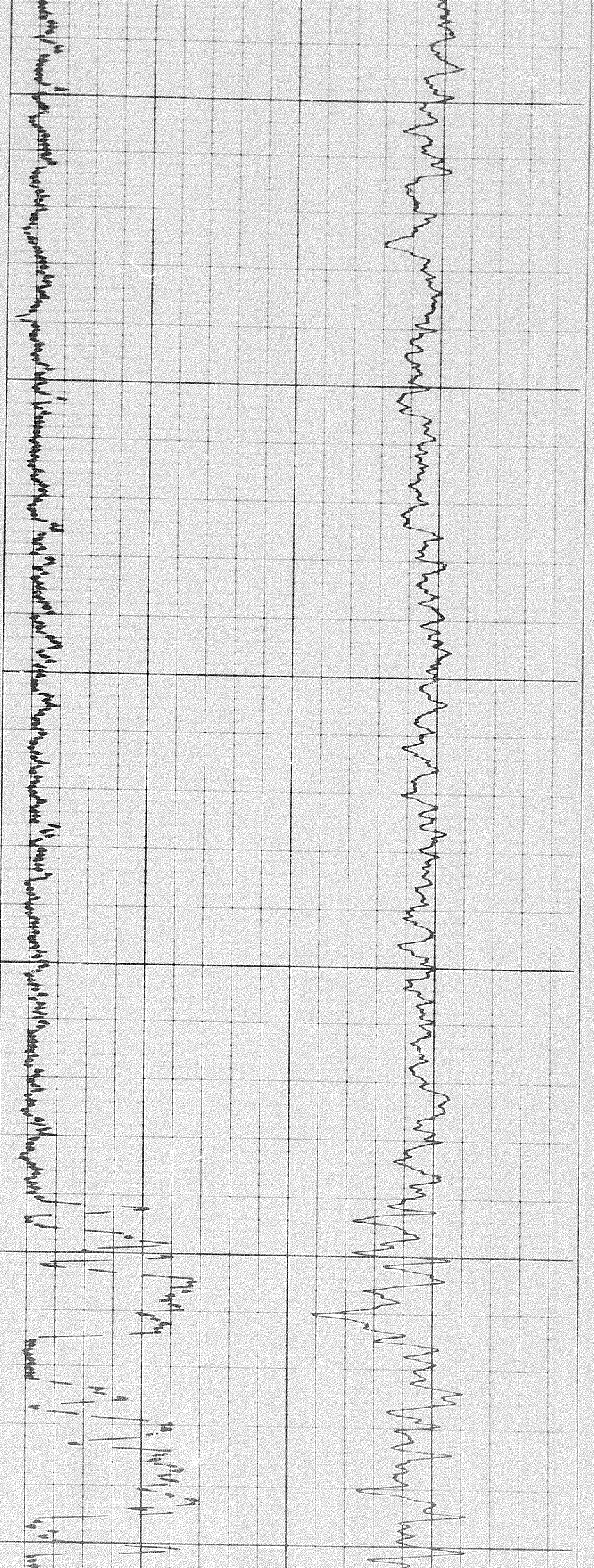
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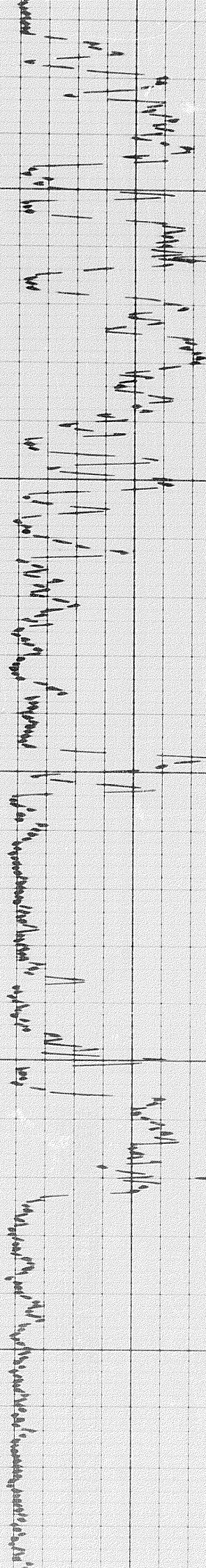
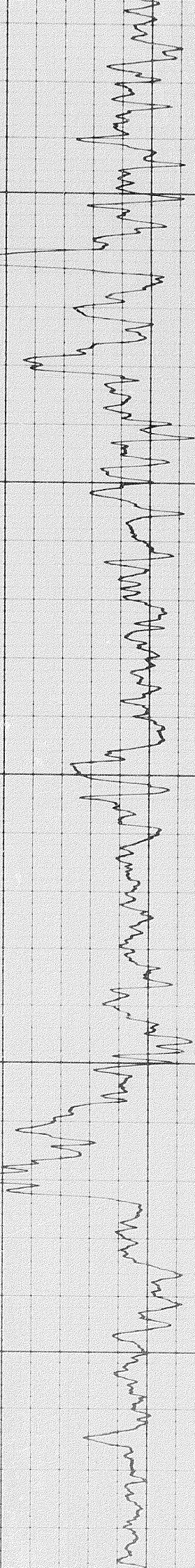


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6000

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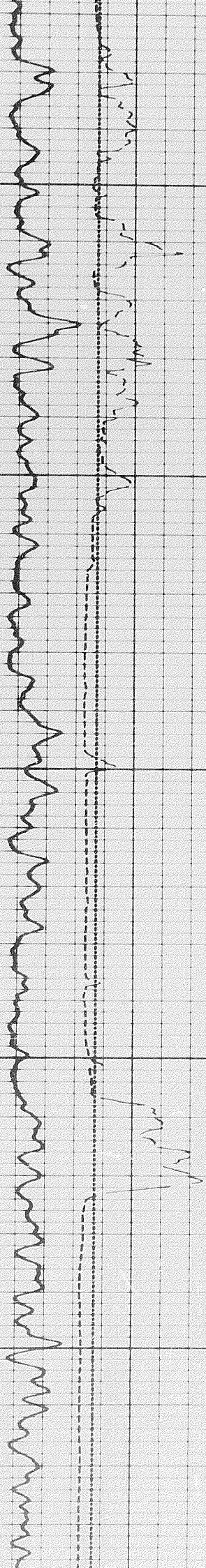


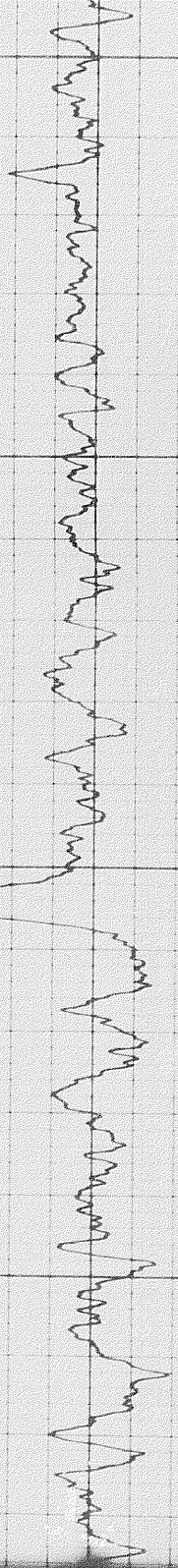


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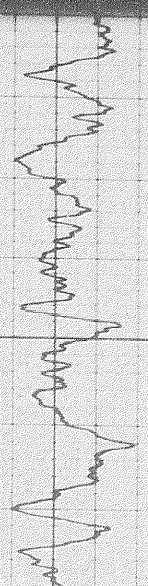




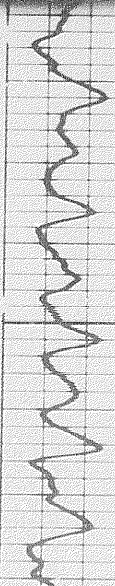
Handwritten text, likely patient information or clinical notes, written vertically along the left side of the ECG strip.

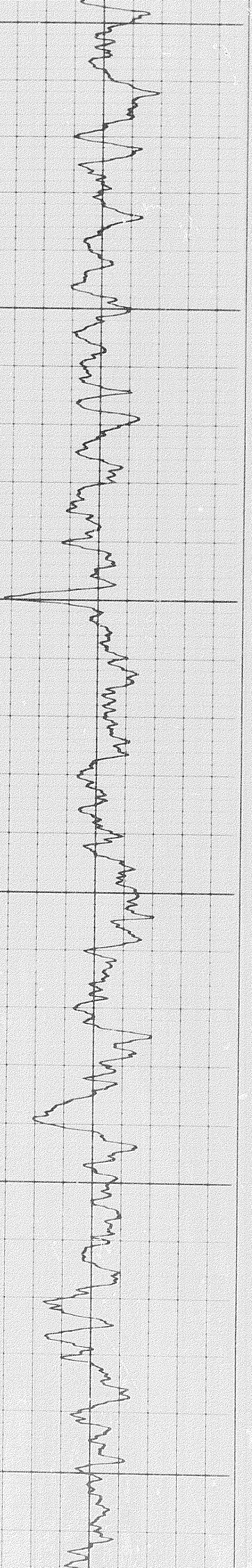
6300

6400



Handwritten text, likely patient information or clinical notes, written vertically along the left side of the ECG strip.



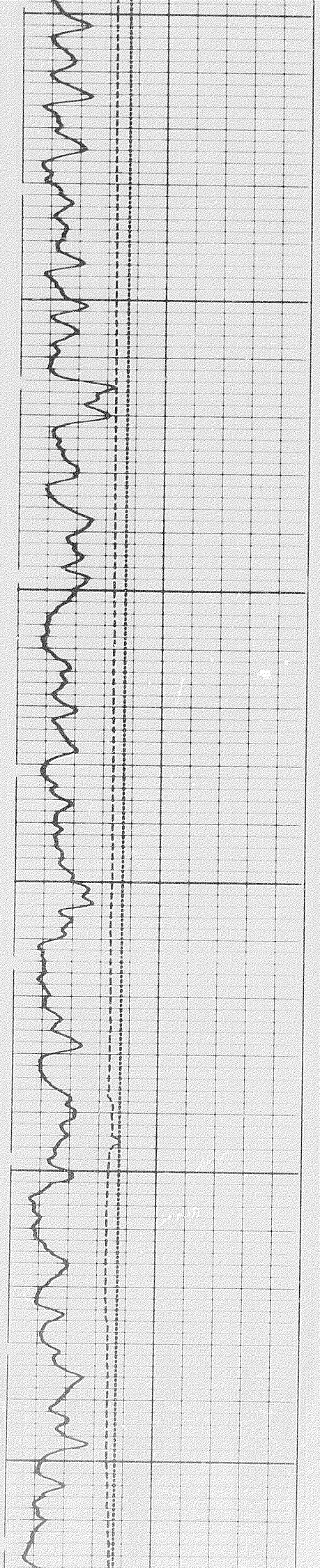


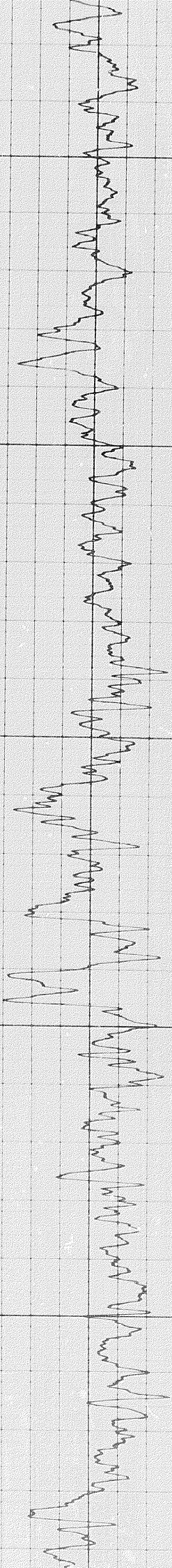
Handwritten notes in a column, likely describing the waveform or the data being recorded. The text is mostly illegible due to blurring and is oriented vertically.

6500

6600

6700

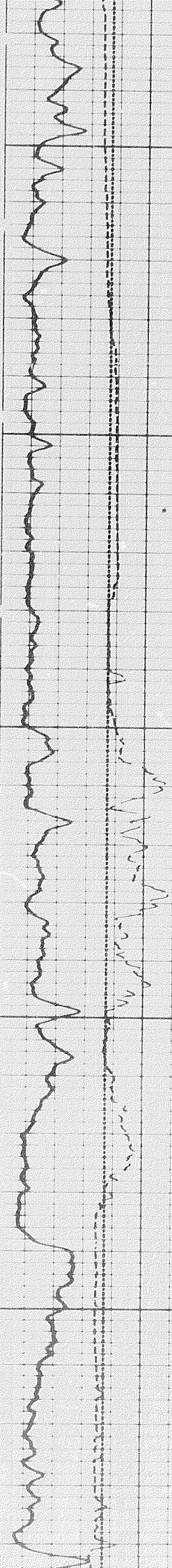


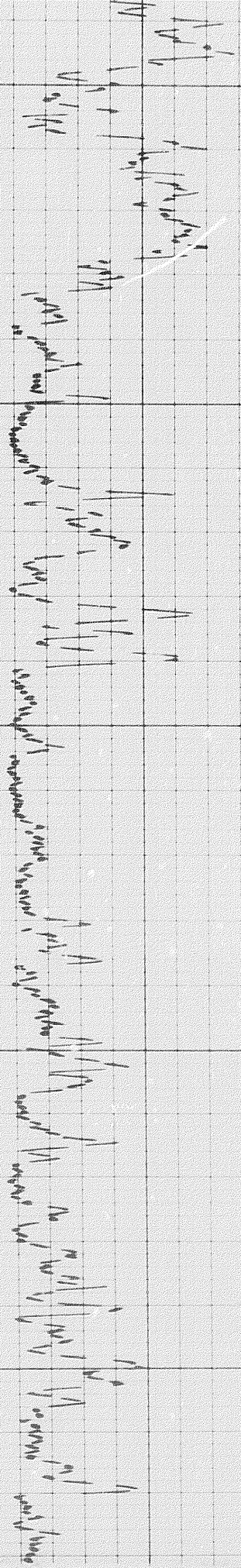
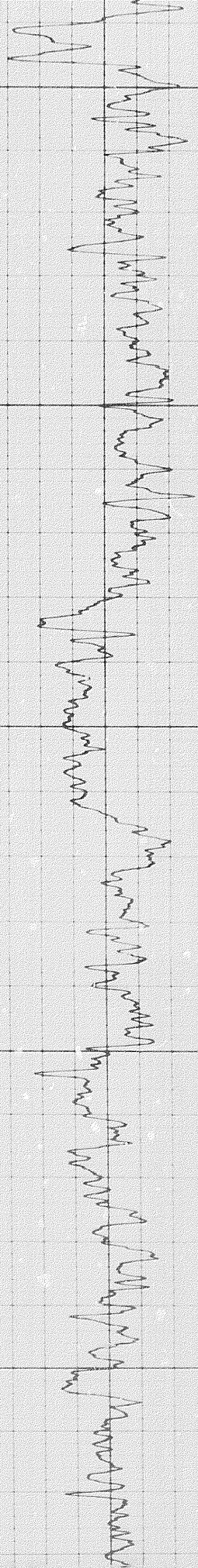


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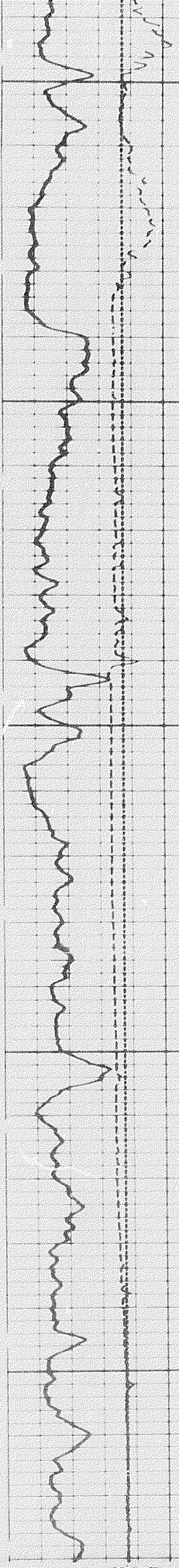
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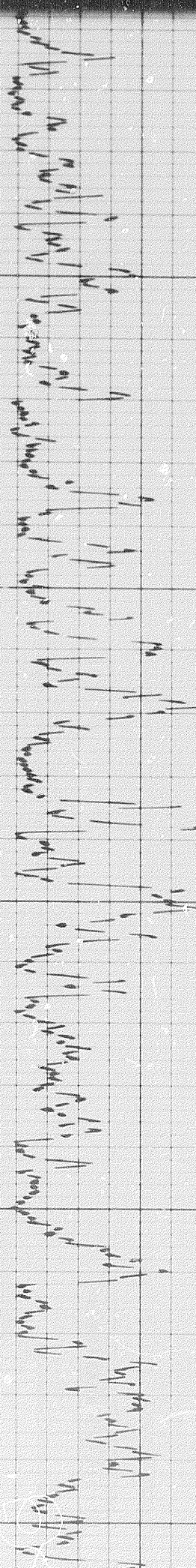
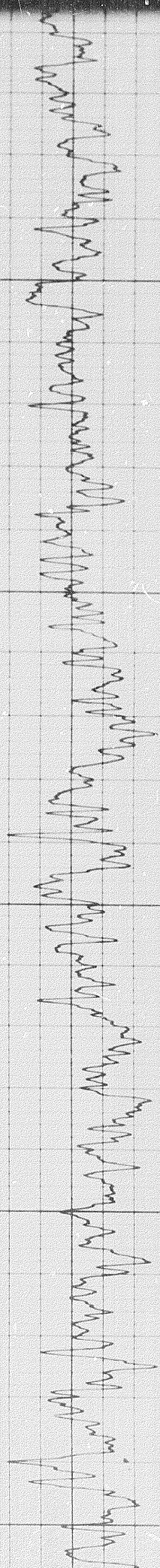




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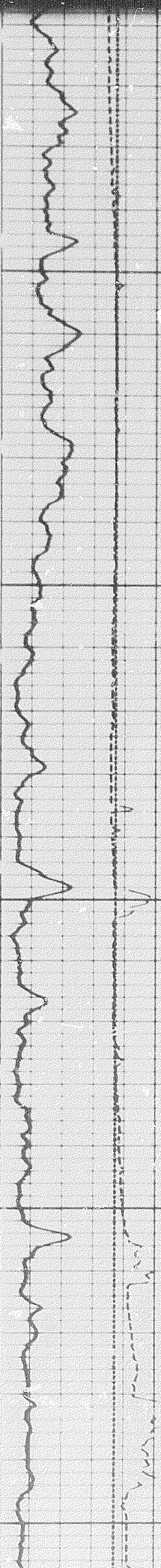
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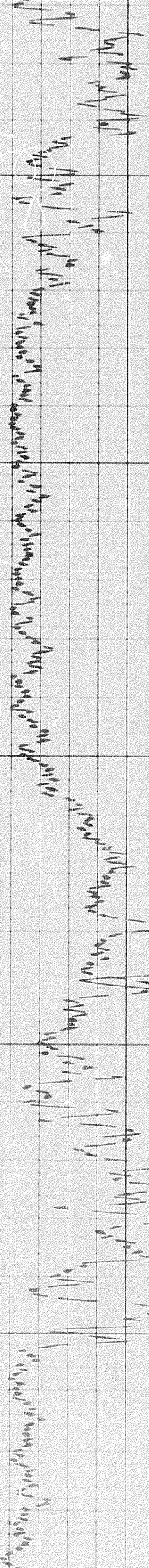
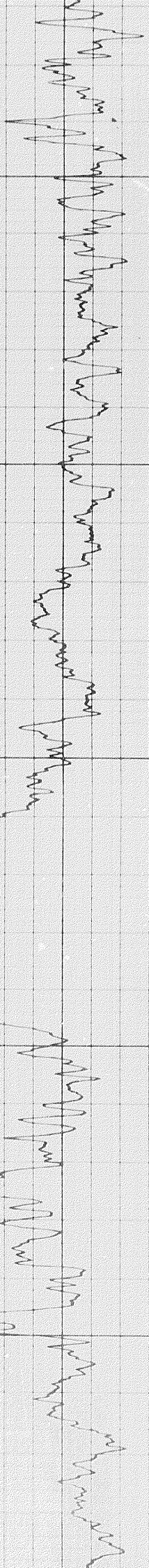




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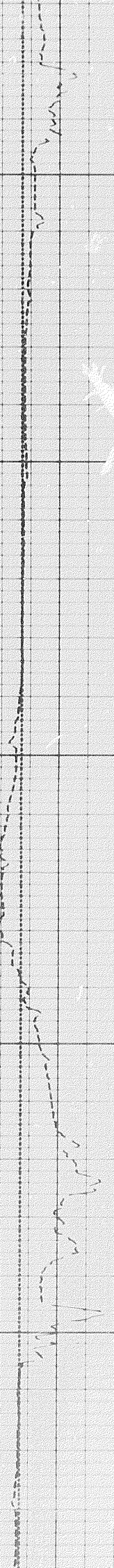
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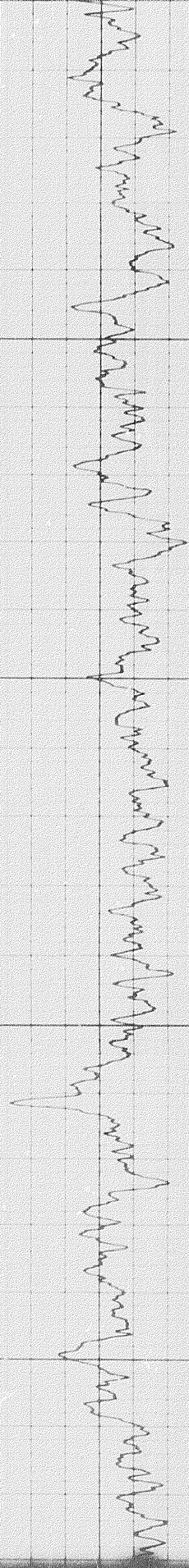




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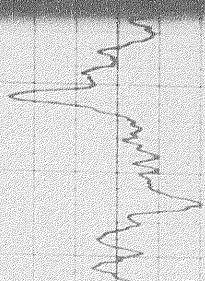
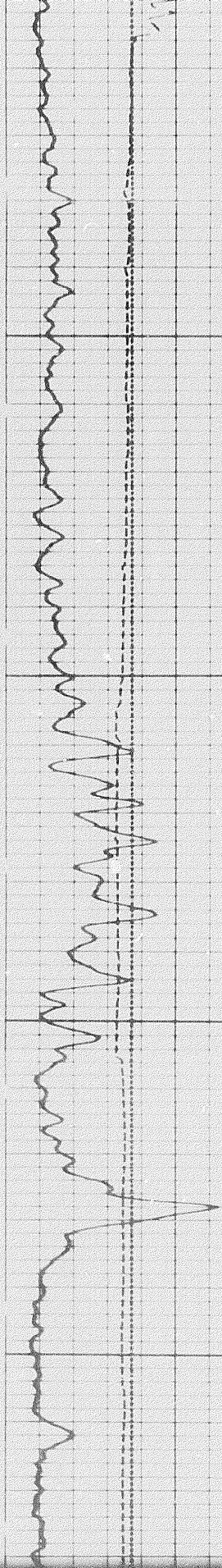




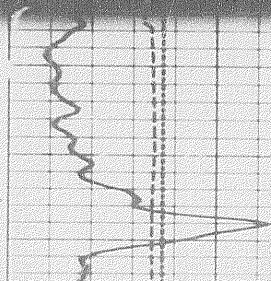
ECG tracing on grid paper showing a regular rhythm with narrow QRS complexes. The rhythm is sinus, with a rate of approximately 75 bpm. The PR interval is normal, and the QRS complexes are narrow. The ST segment is slightly elevated, and the T waves are upright and of moderate amplitude.

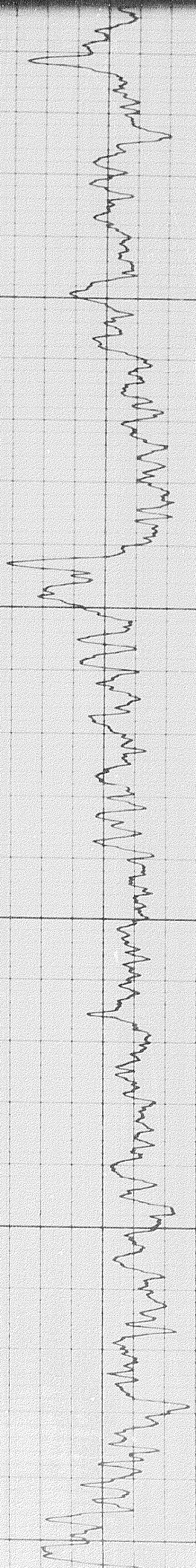
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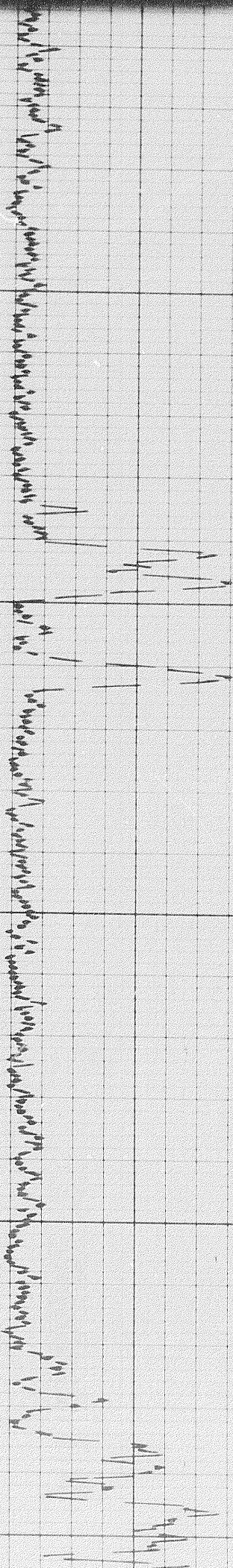


ECG tracing on grid paper showing a regular rhythm with narrow QRS complexes. The rhythm is sinus, with a rate of approximately 75 bpm. The PR interval is normal, and the QRS complexes are narrow. The ST segment is slightly elevated, and the T waves are upright and of moderate amplitude.

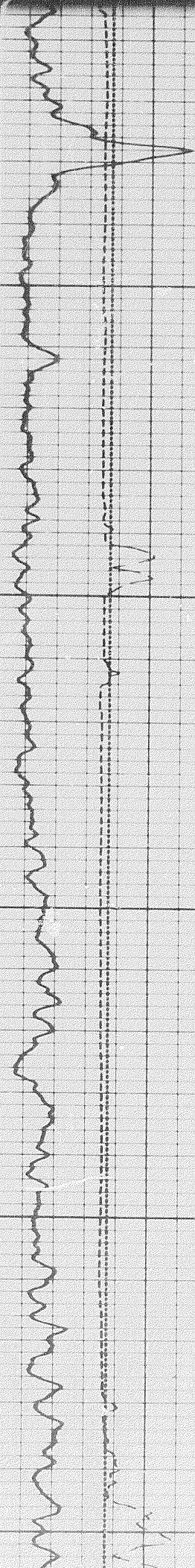


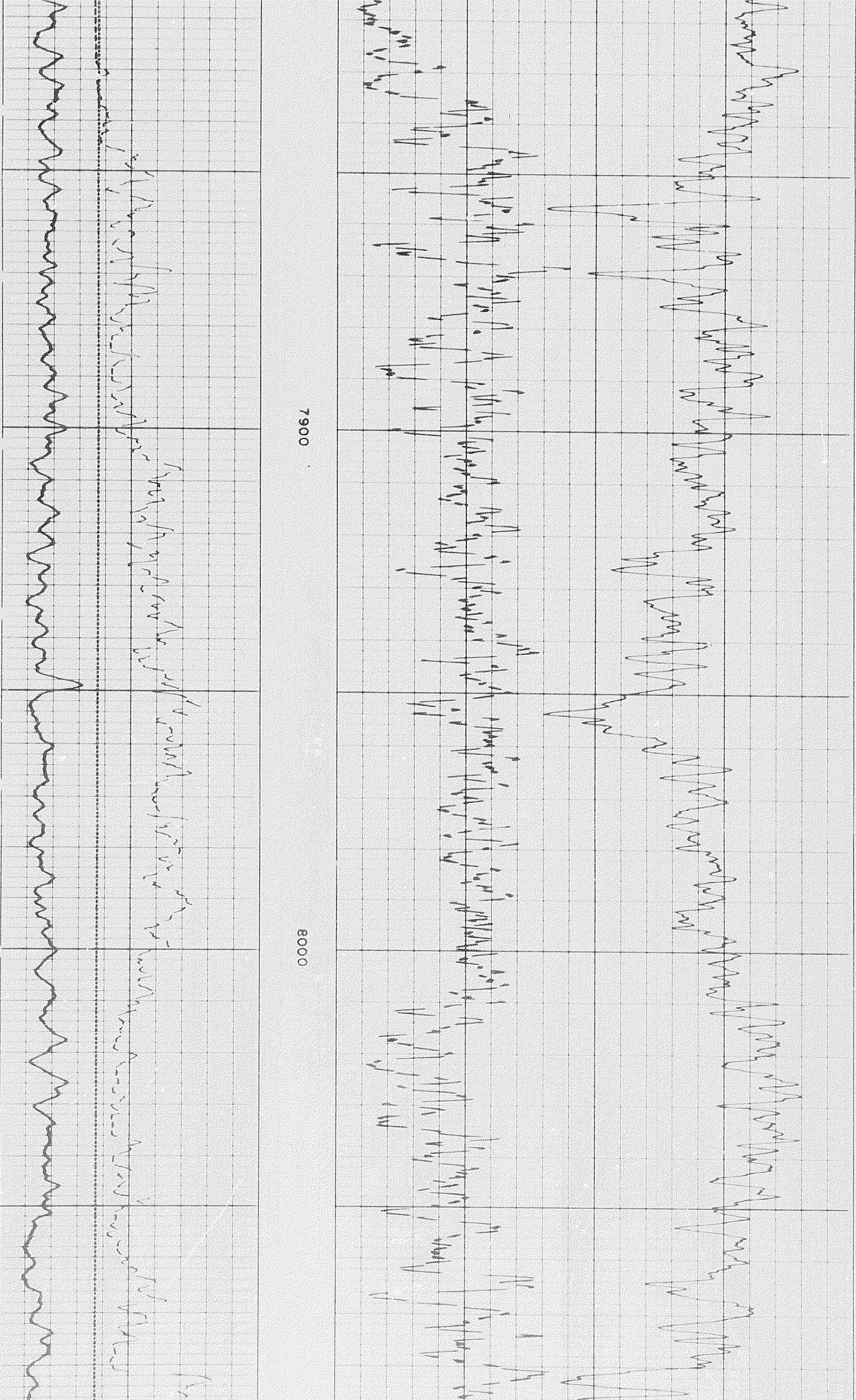


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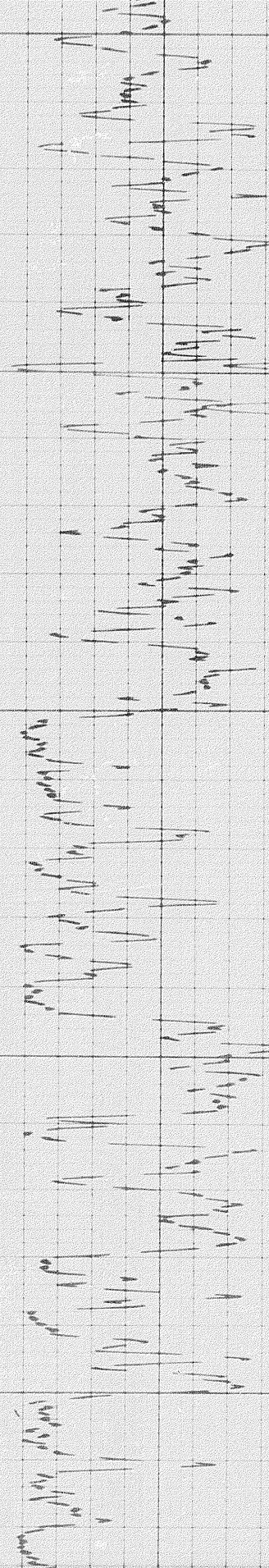
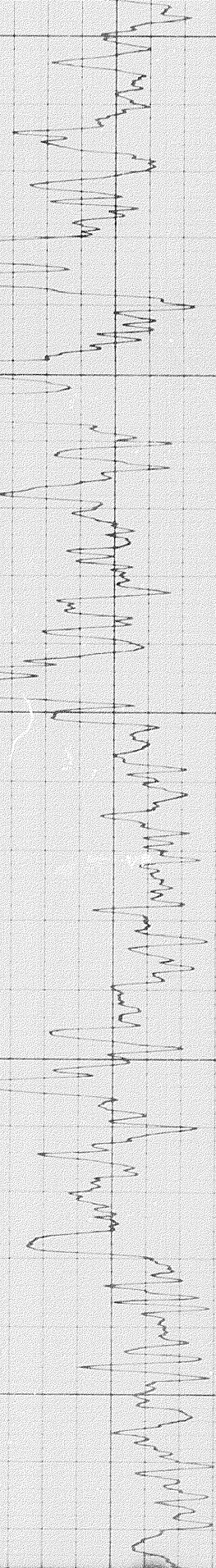
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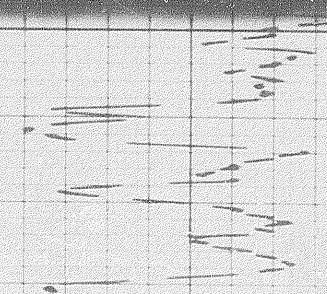
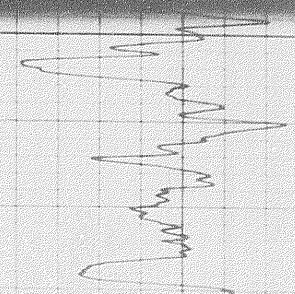
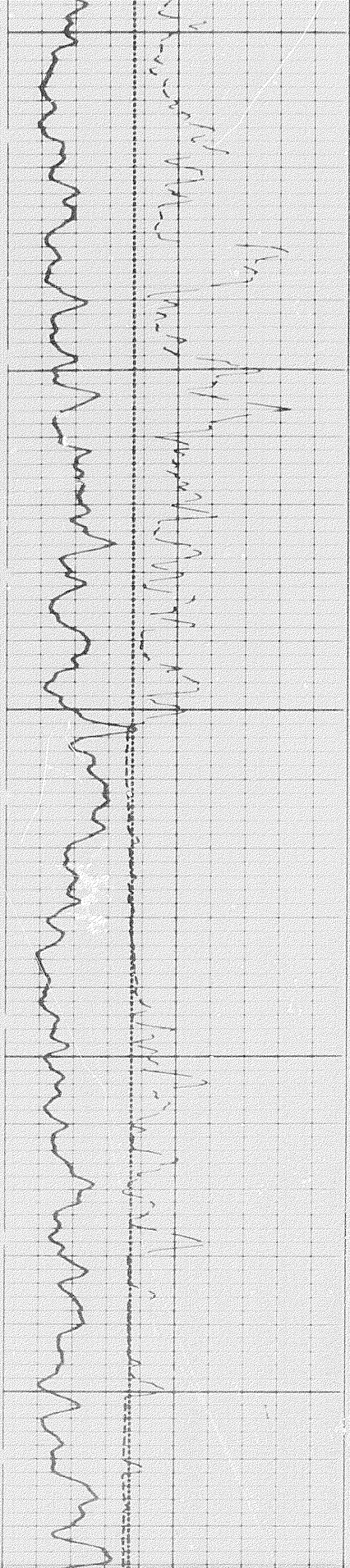
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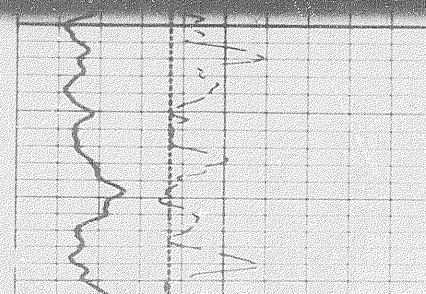


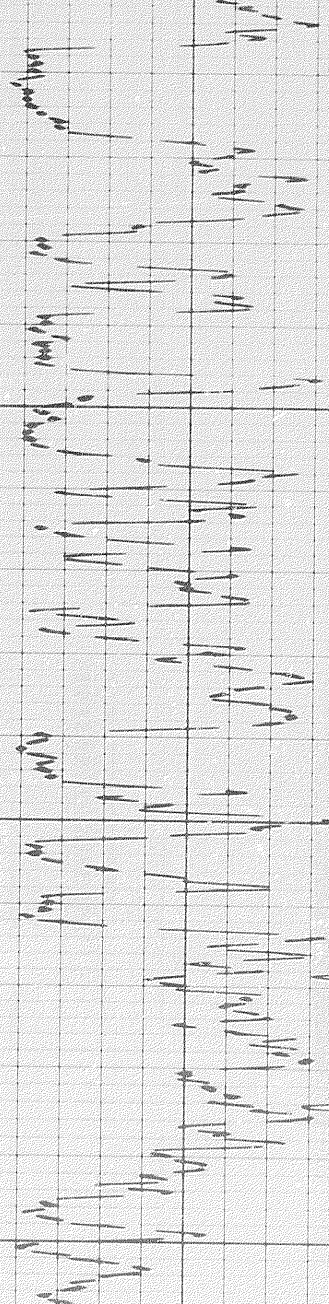
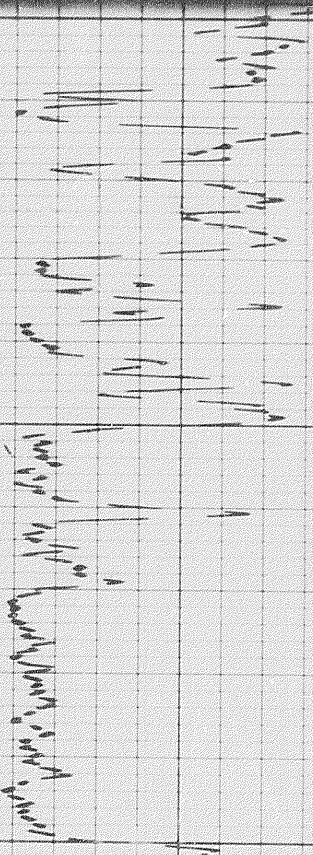
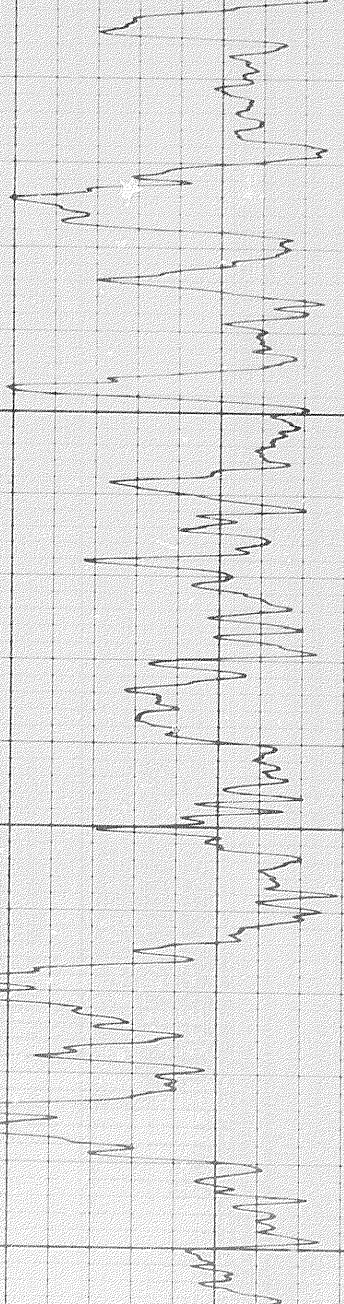
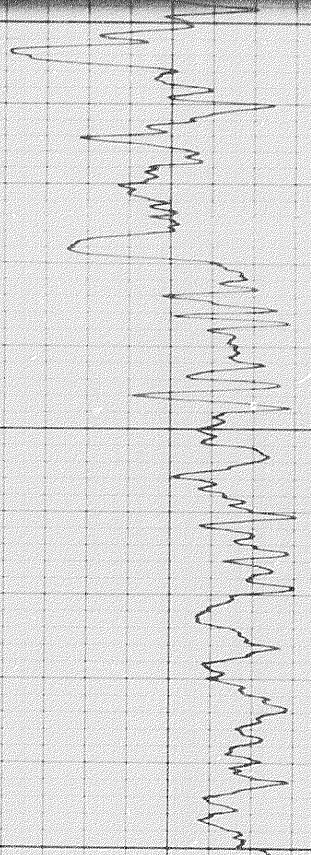
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8200



8300

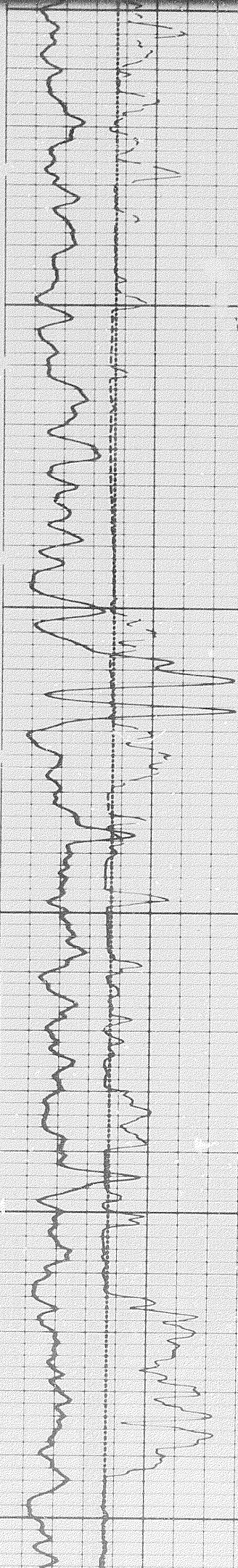




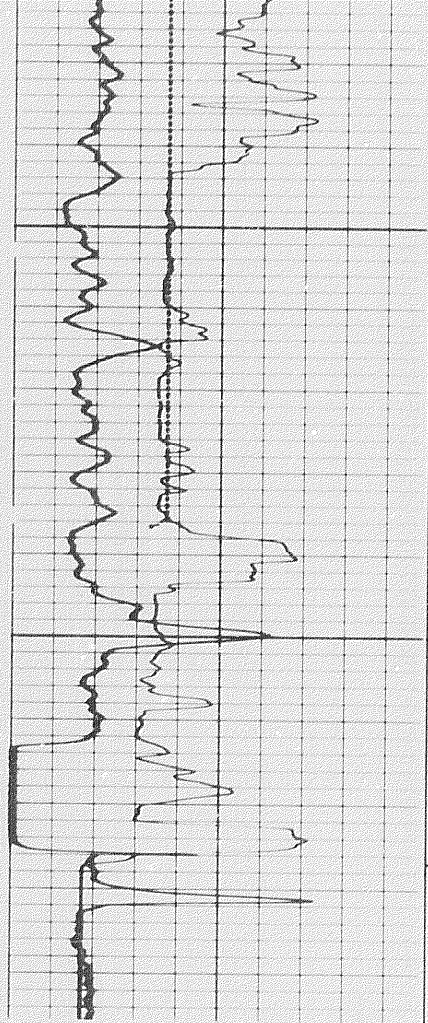
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8400

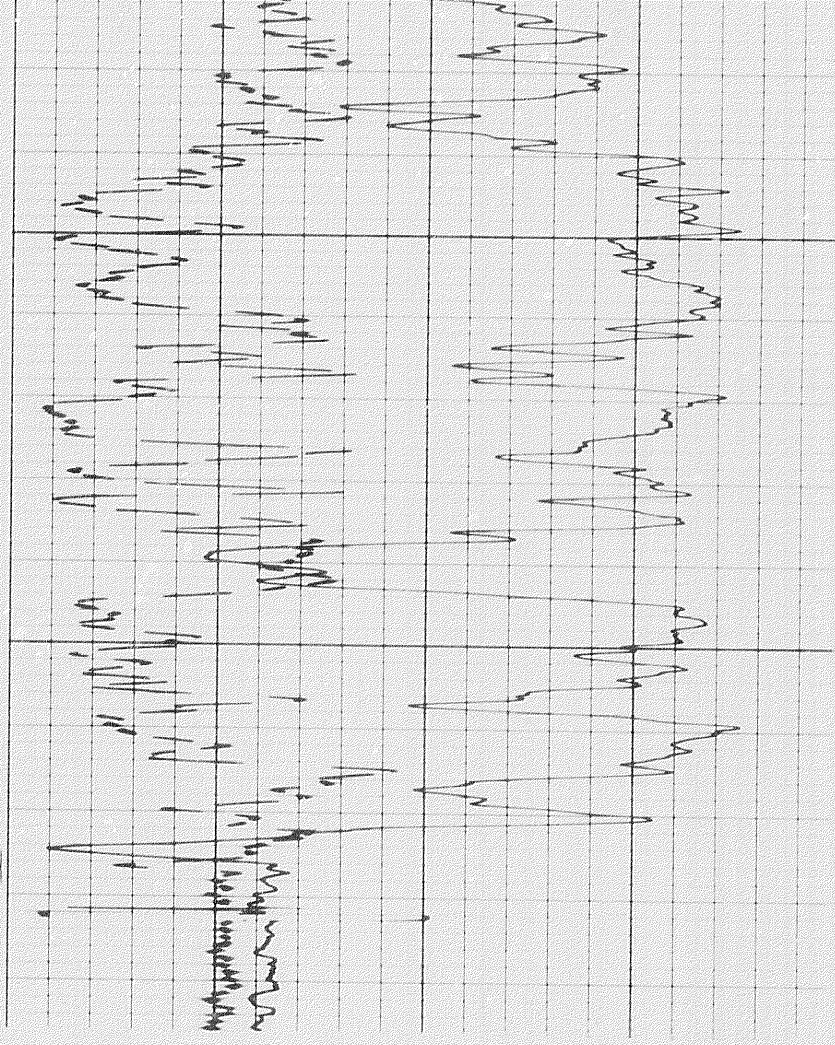


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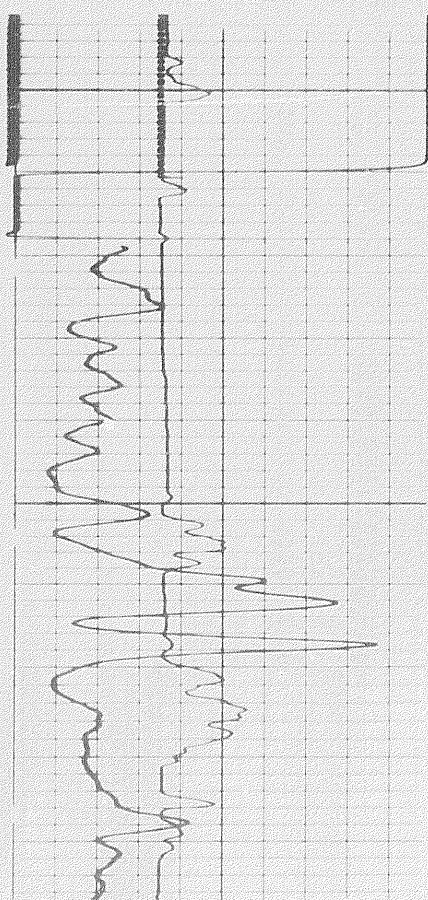


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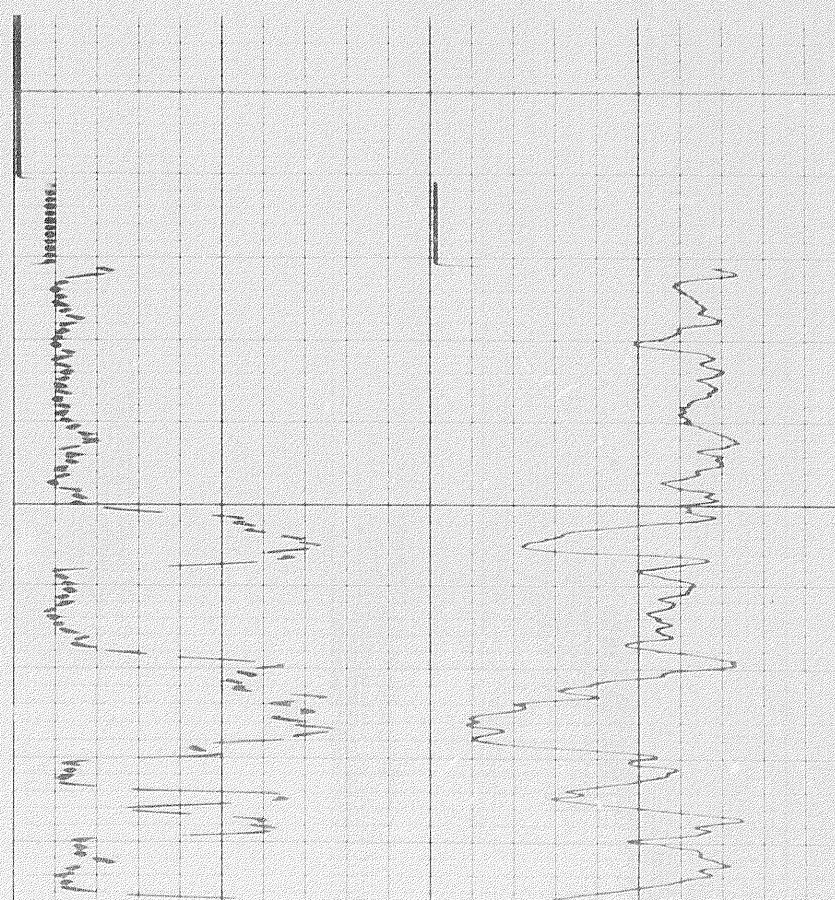
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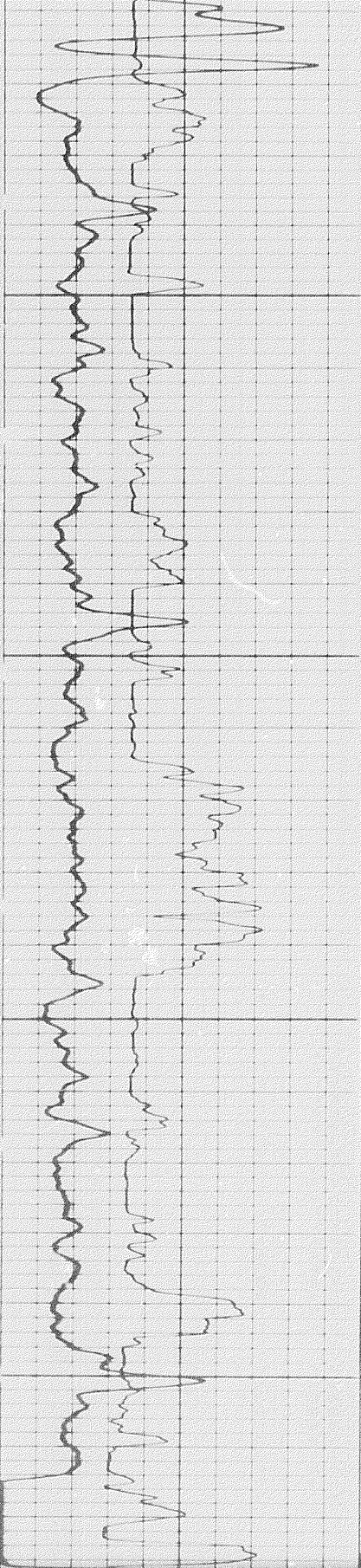


REPEAT SECTION

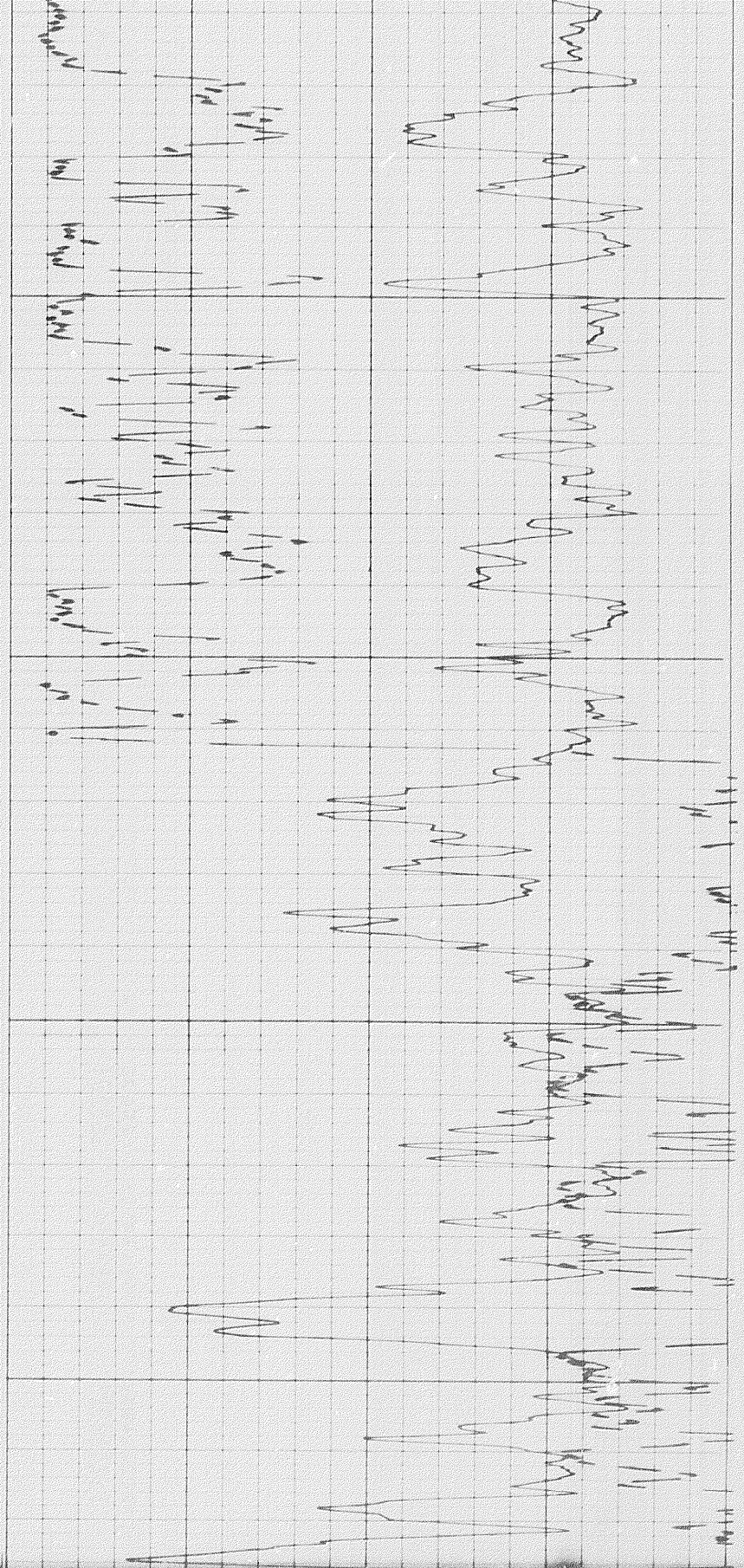


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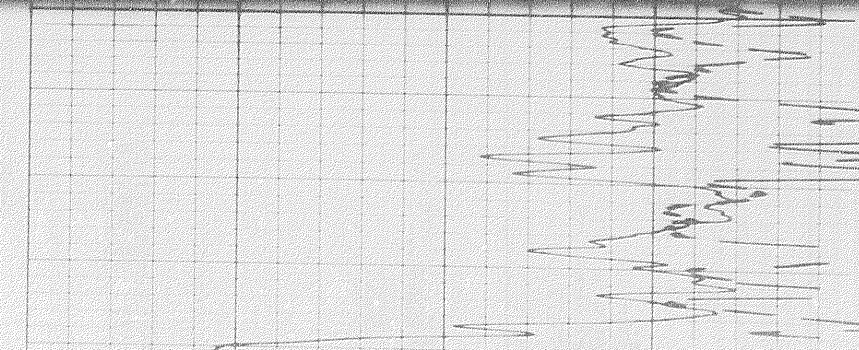
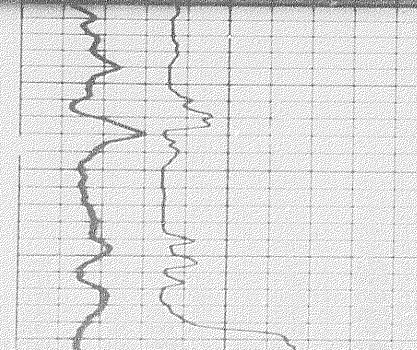




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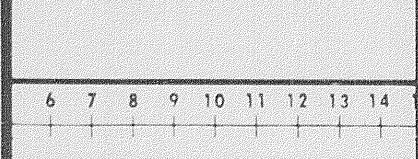
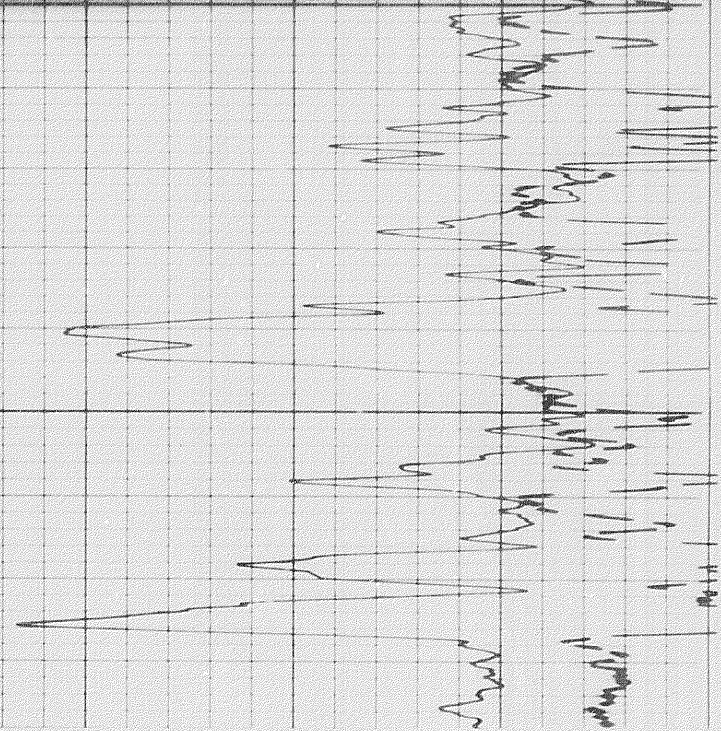
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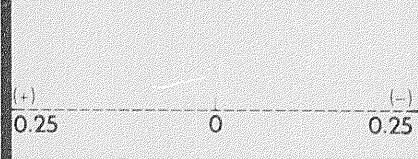


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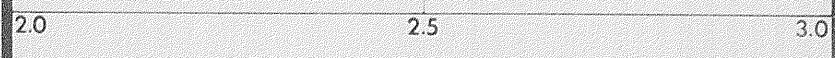


CALIPER
hole diameter in inches



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

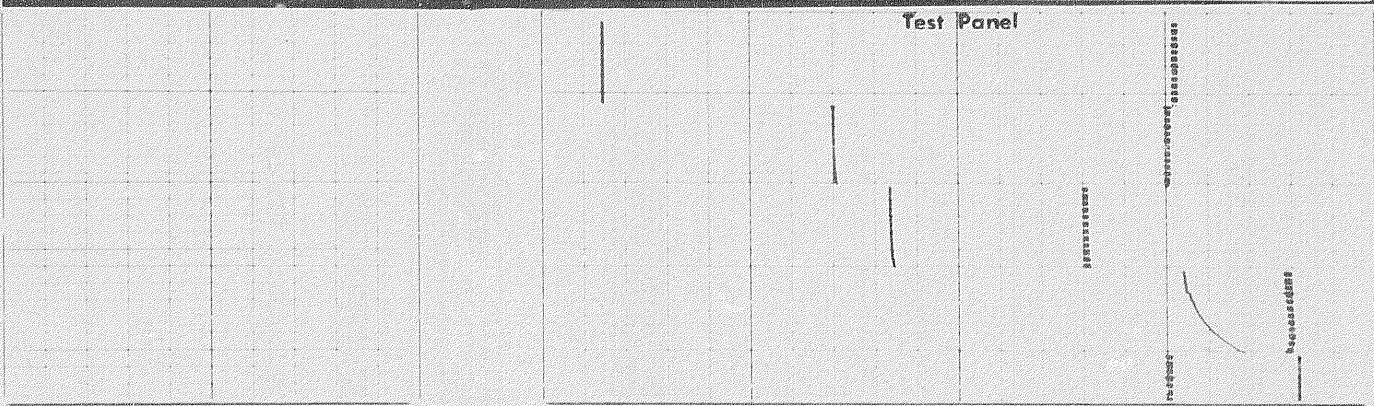
Speed in FPM
Sens. 150 T.C. 2
Zero 0 div. to left
150 300



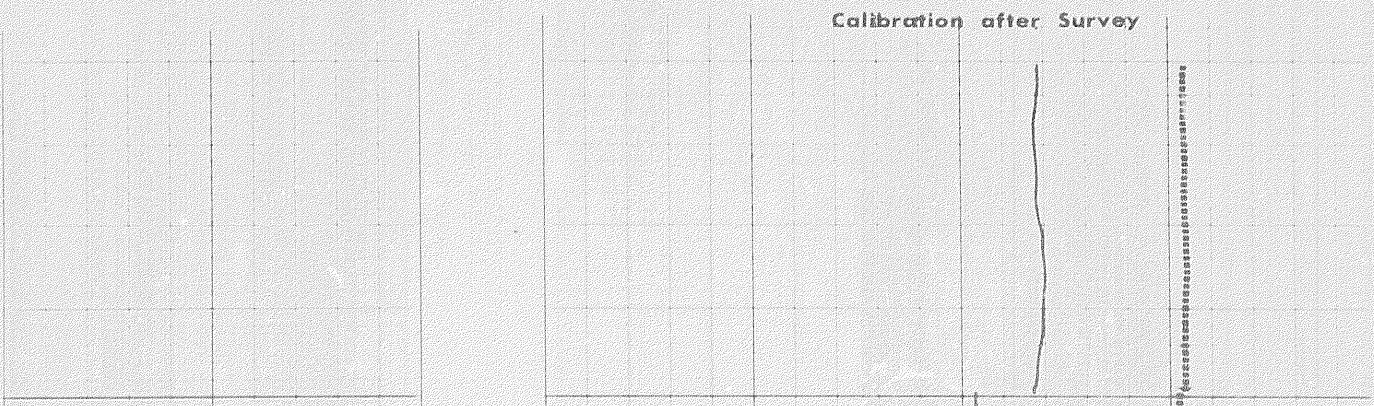
GAMMA RAY
API UNITS

DEPTHS

BULK DENSITY
 ρ_b - gm/cc



Calibration after Survey



707

Calibration before Survey

COMPANY

SMELLY GETTY MOBIL ARCTIC LTD

WELL

SMELLY GETTY MOBIL ARCTIC DEP Y.T. D-60

FIELD

WILLOW PROVINCE YUKON TERRITORIES

Schlumberger

PURPOSE

The porosity overlay is designed to identify lithology in a matrix comprised of more than one mineral. This information makes possible a more accurate porosity determination.

METHOD

The SNP log is recorded assuming a limestone matrix, with a duplicate curve recorded twelve porosity units to the right. The duplicate curve is referred to as the "Dolomite Limit". Bulk density from the FDC log is converted to limestone porosity and is superimposed on the SNP log.

INTERPRETATION

- 1) Limestone - Dolomite
 - a) Limestone: $\Phi_{log} = \Phi_{SNP}$. Porosities are read directly.
 - b) Dolomite: $\Phi_{log} = \Phi_{SNP} - 12$. SNP curve readings are converted to porosity using the dolomite scaler.
 - c) Limestone - Dolomite matrix: $\Phi_{log} > \Phi_{SNP} > \Phi_{log} - 12$. Percentage of dolomite is interpolated from the relative displacement of Φ_{log} from the Φ_{SNP} line toward the dolomite limit line. Porosity is calculated by plotting the Φ_{log} and the percent dolomite on the dolomite scaler.
- 2) Other minerals

When minerals other than limestone and dolomite are present interpretation is made using chart CP.1 of the interpretation manual.

Minerals can be identified according to the accompanying table:

LITHOLOGY IDENTIFICATION SUMMARY

A—Liquid Filled Pores






Additional requirements

- Limestone $\Phi_{log} = \Phi_{SNP}$
- Dolomite $\Phi_{log} = \Phi_{SNP} - 12$
- Sand $\Phi_{log} = \Phi_{SNP} + 6$

B—No Porosity

	Φ_{log}	Φ_{SNP}	ΔT
Salt	$\Phi_{log} = \Phi_{SNP} + 39.5$	4	43.5
Gypsum	$\Phi_{log} = \Phi_{SNP} - 28$	49	21
Anhydrite	$\Phi_{log} = \Phi_{SNP} - 16$	-1	-17
Sulphur	$\Phi_{log} = \Phi_{SNP} + 40$	0	40
Shale	$\Phi_{log} = \Phi_{SNP} - N$	(N is variable - confirm with gamma ray)	

COLOR LEGEND

-  Sand
-  Shale
-  Limestone
-  Dolomite
-  Anhydrite
-  Salt

Remarks:



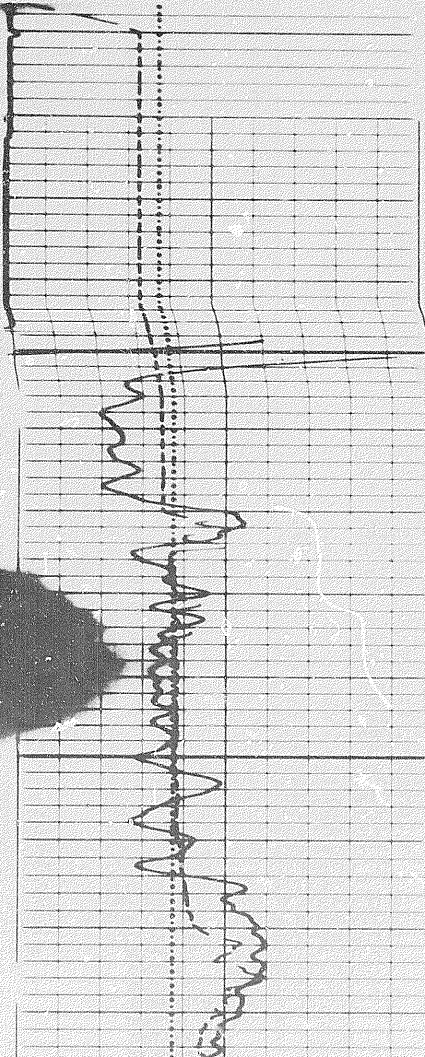
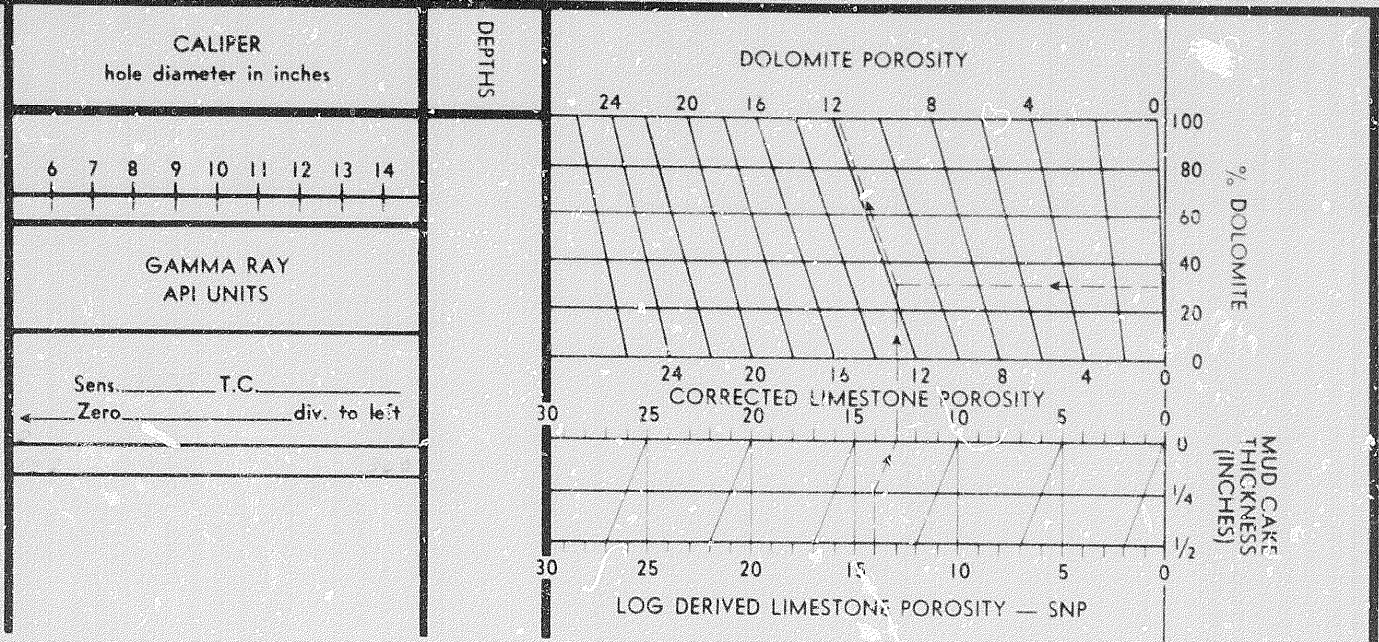
2) Other minerals

When minerals other than limestone and dolomite are present, interpretation is made using chart CP-1 of the interpretation manual.

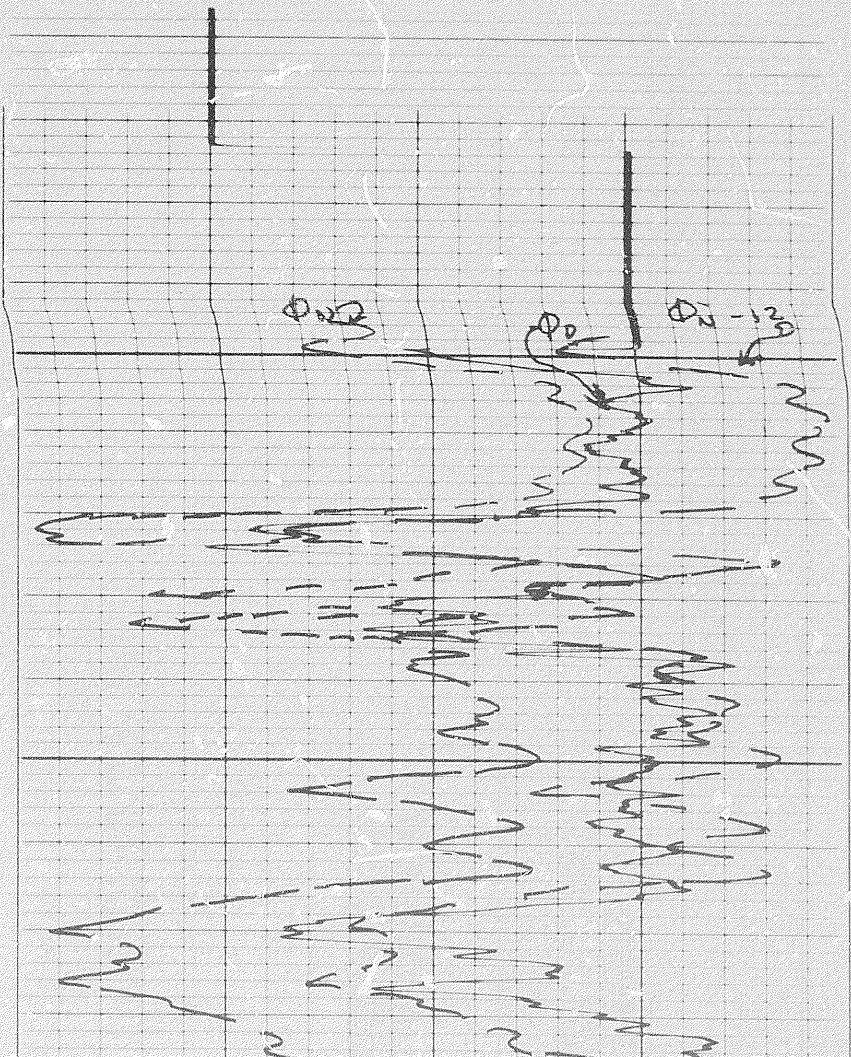
Minerals can be identified according to the accompanying table:

- Dolomite
- Anhydrite
- Salt

Remarks:

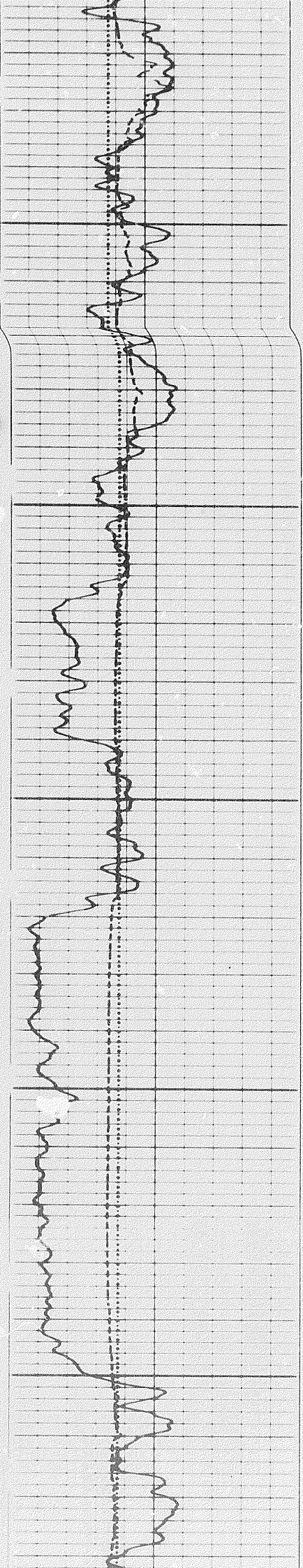


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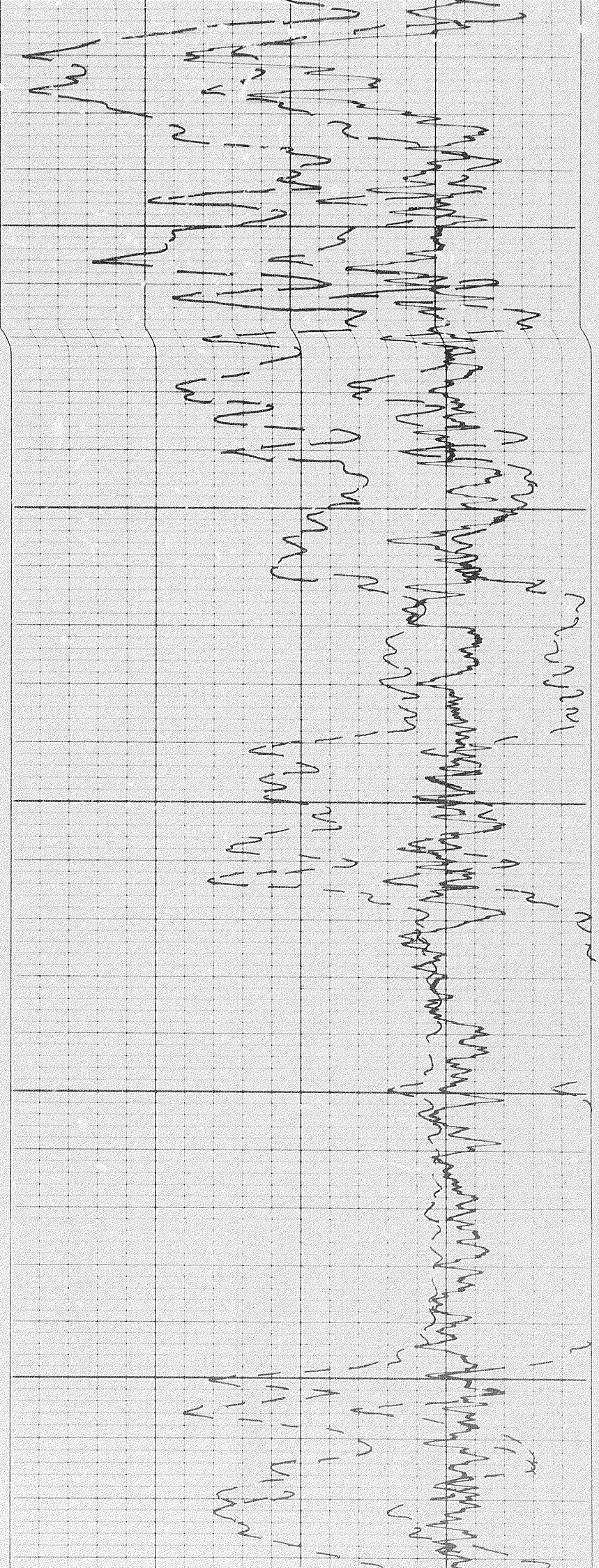
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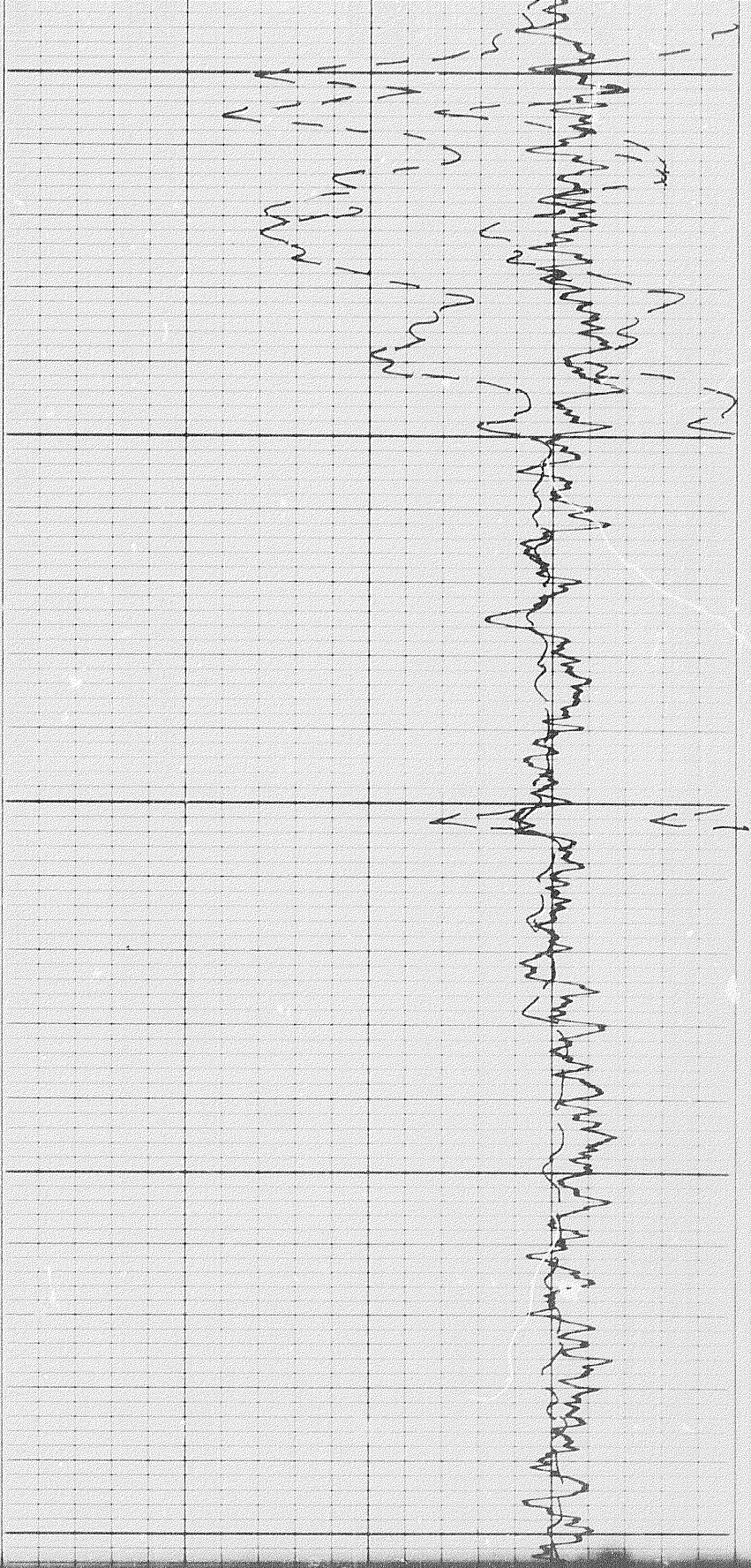


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5700

5800

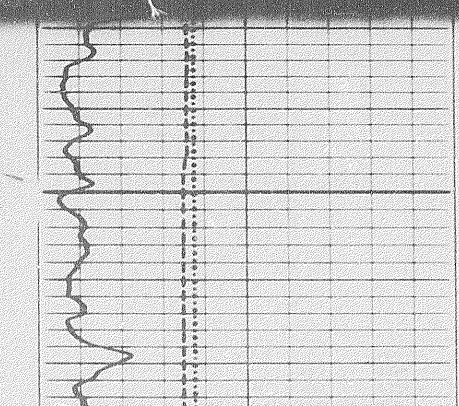
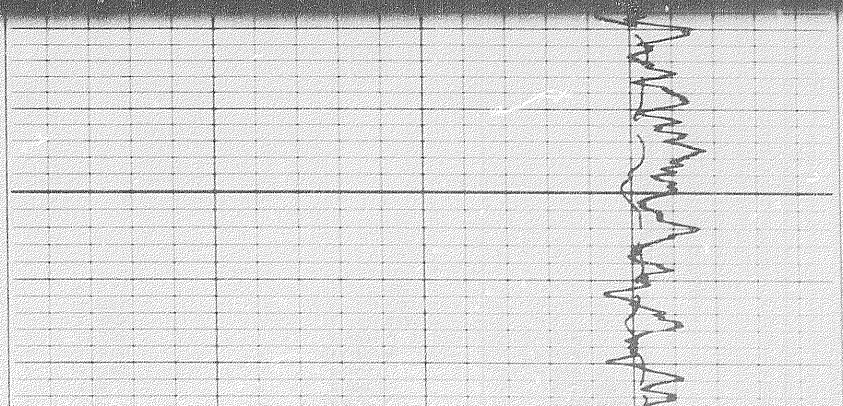
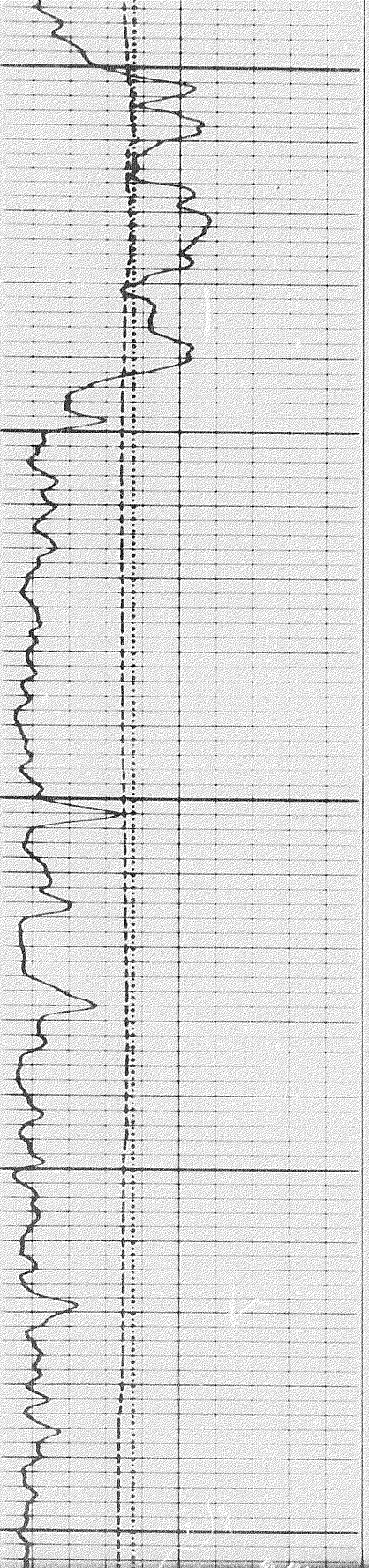




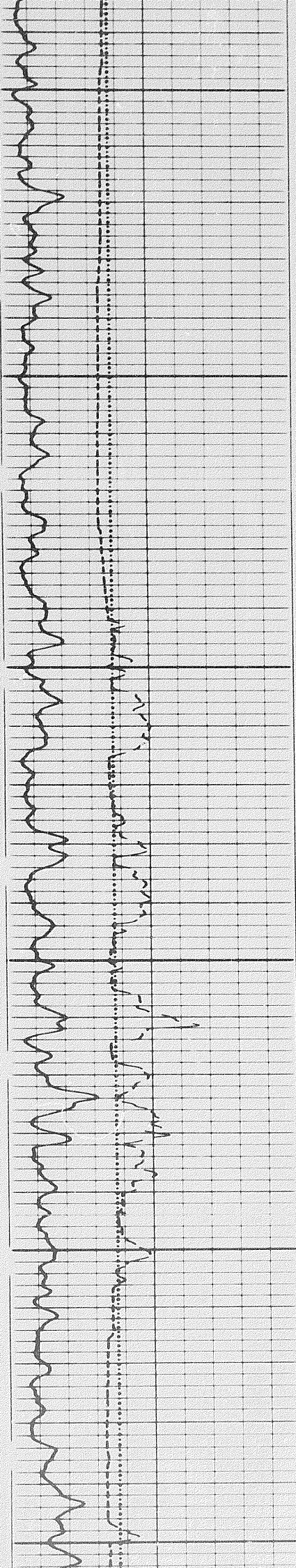
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5900

6000



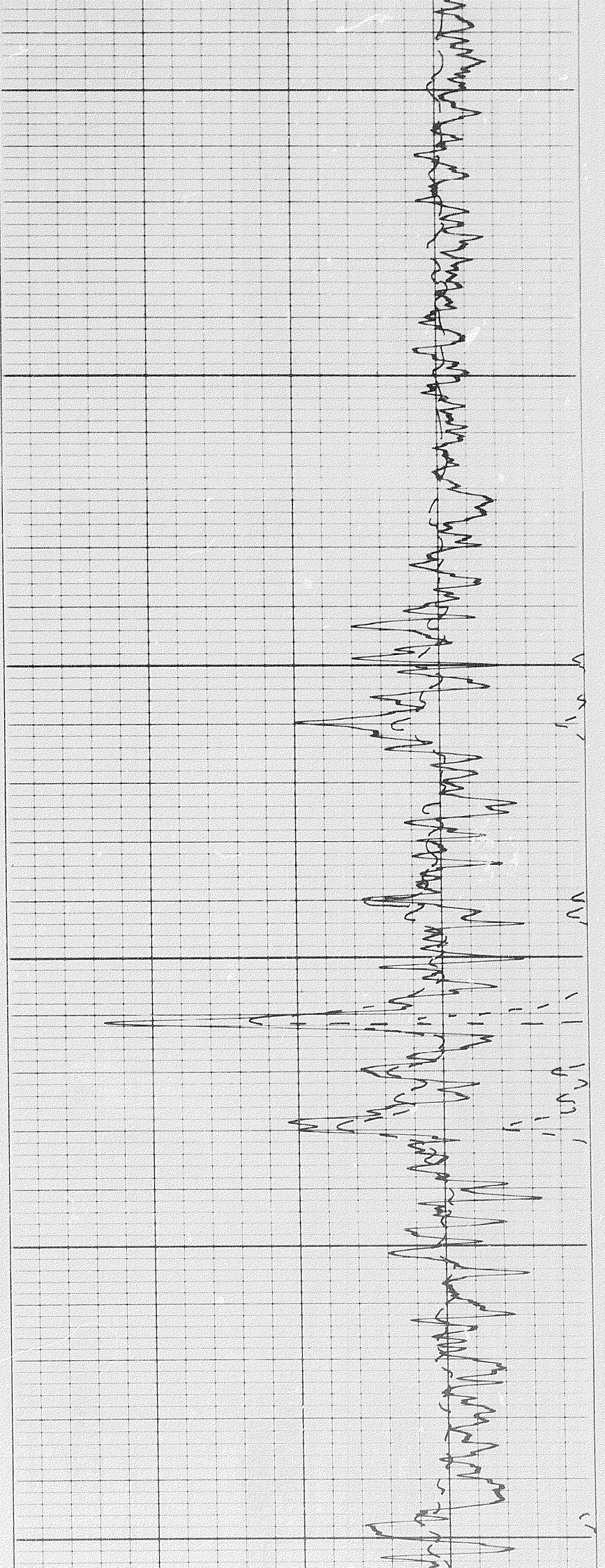
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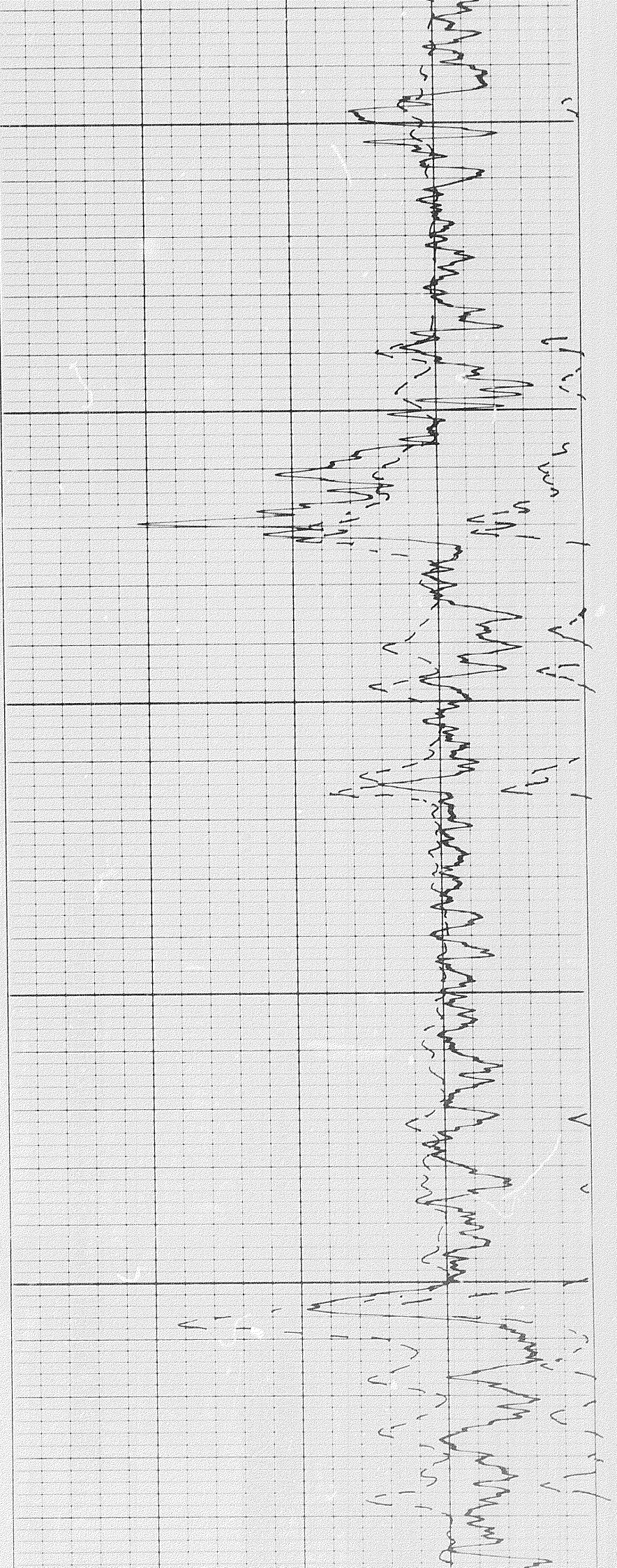


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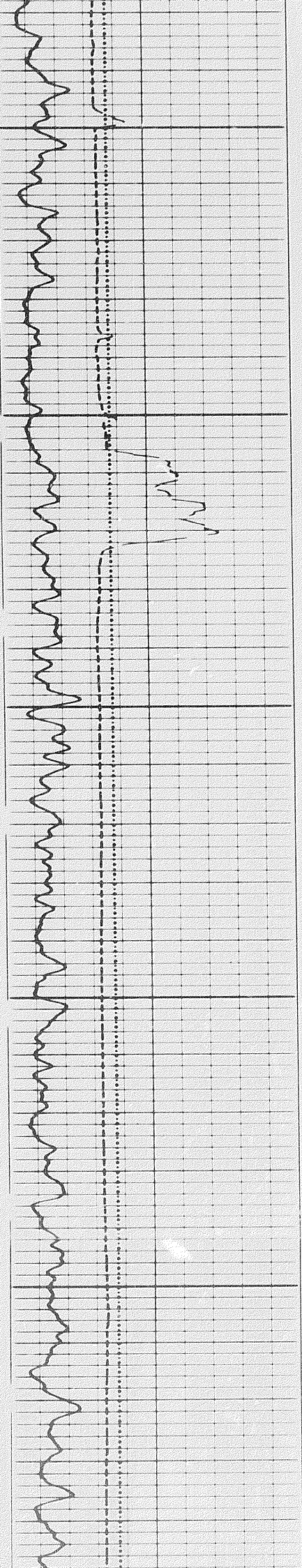


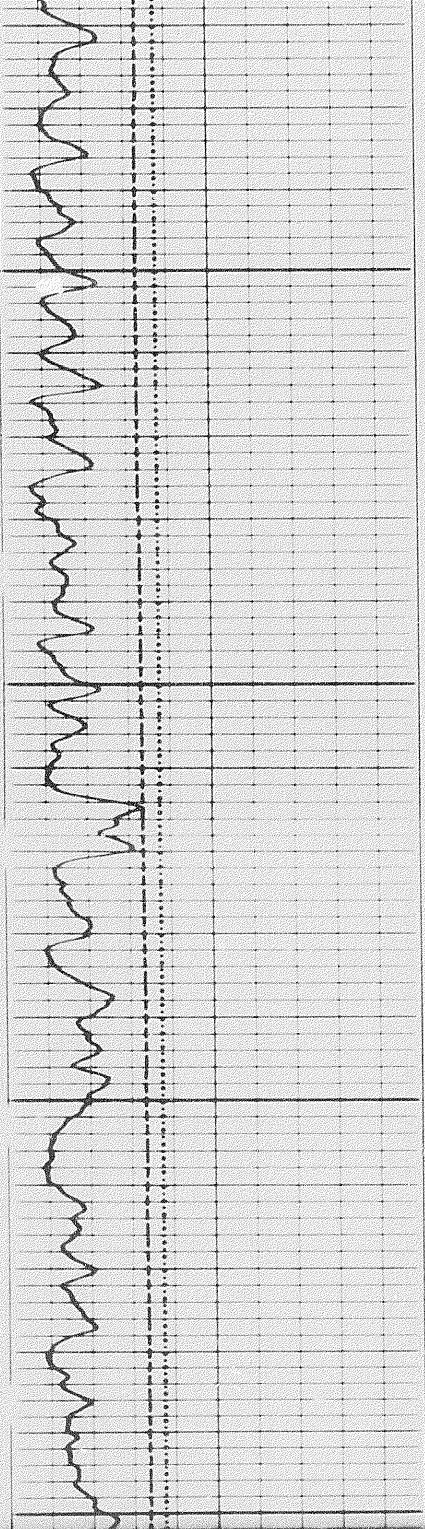


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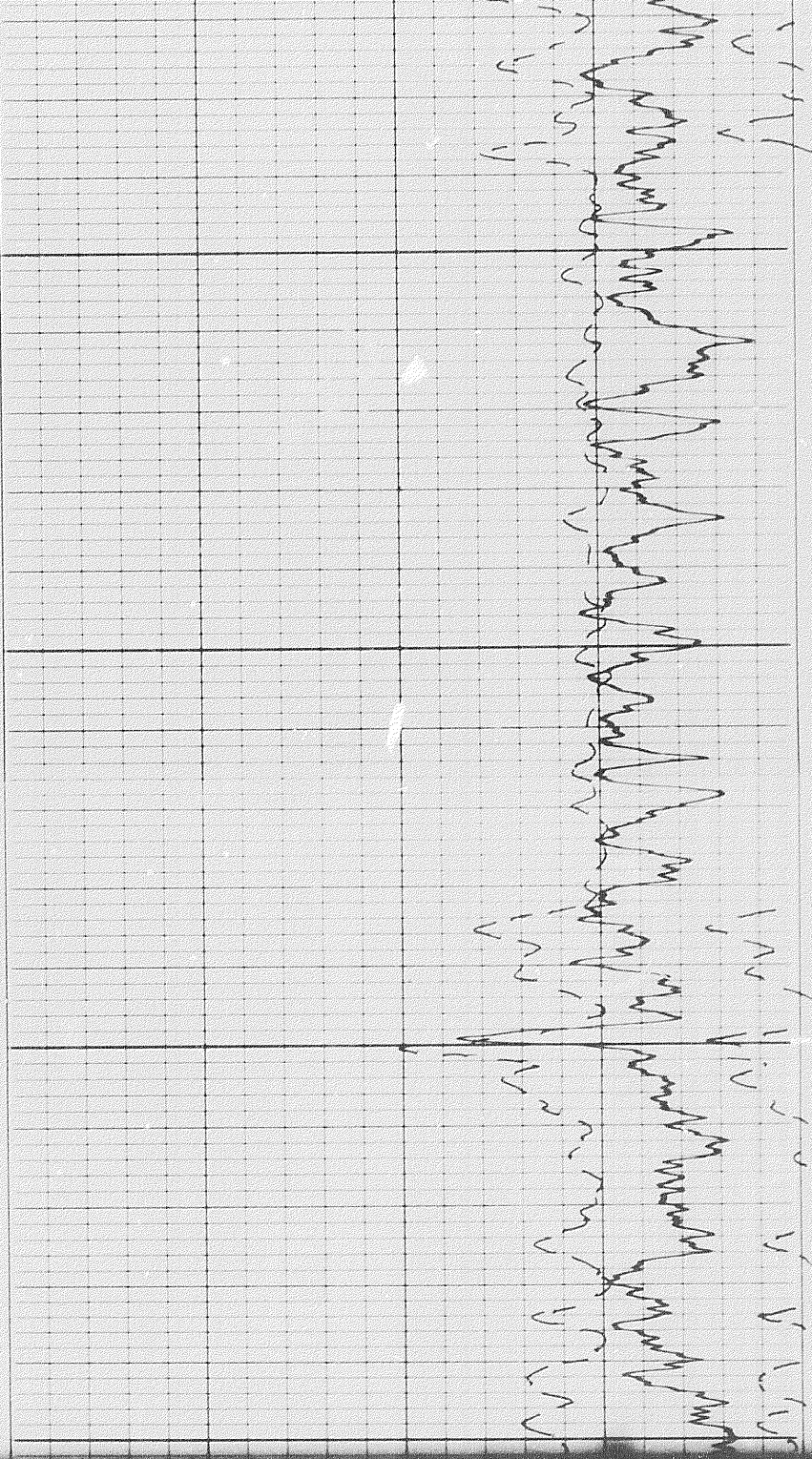
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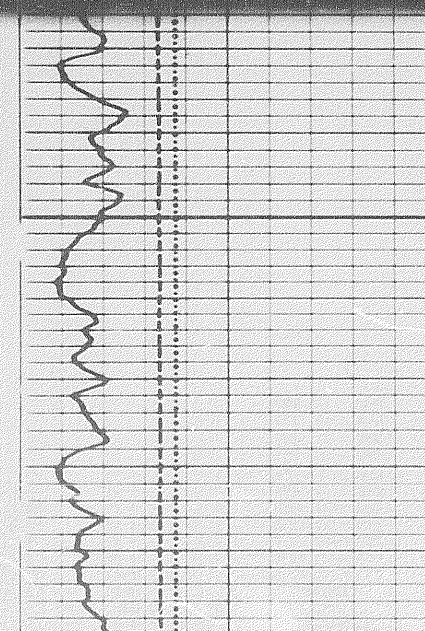




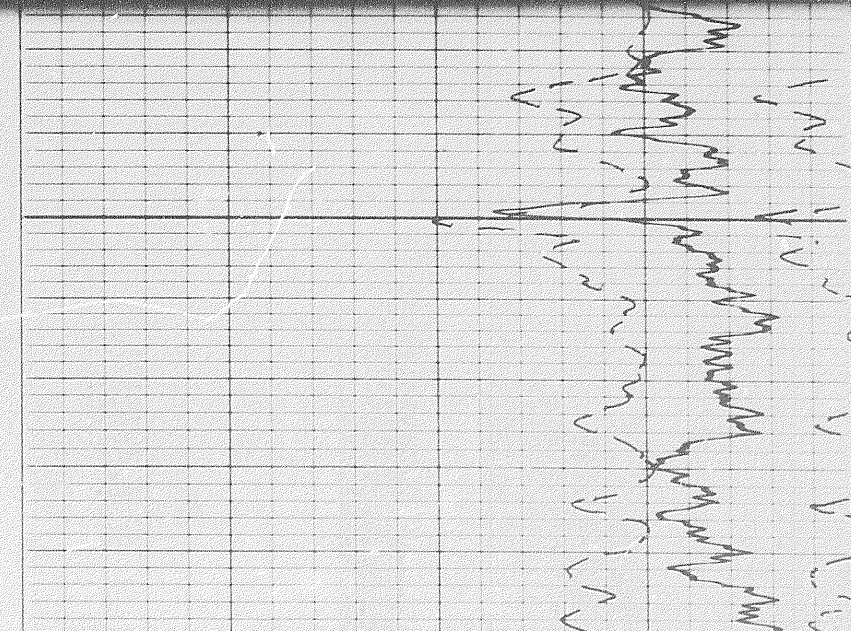
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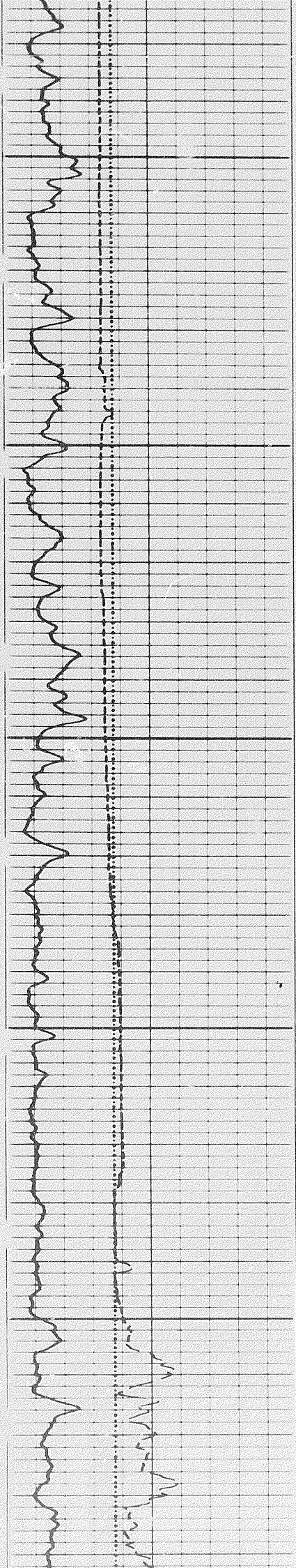
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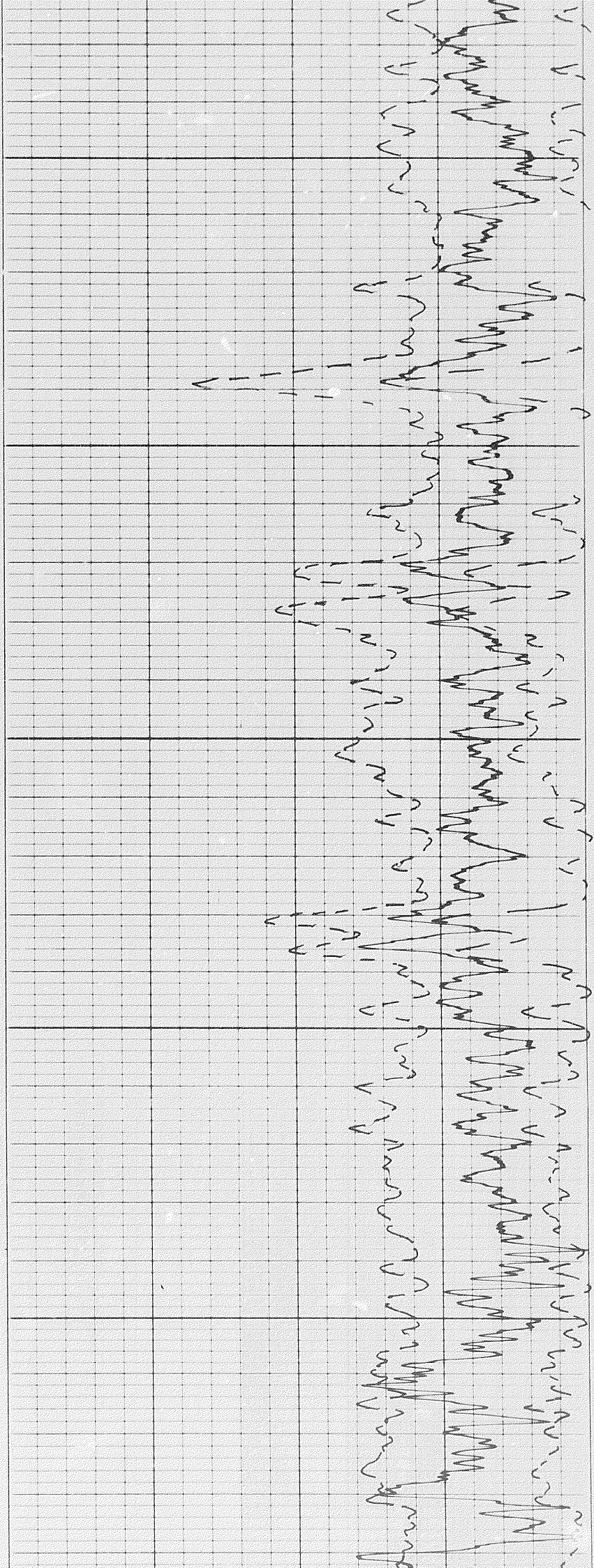
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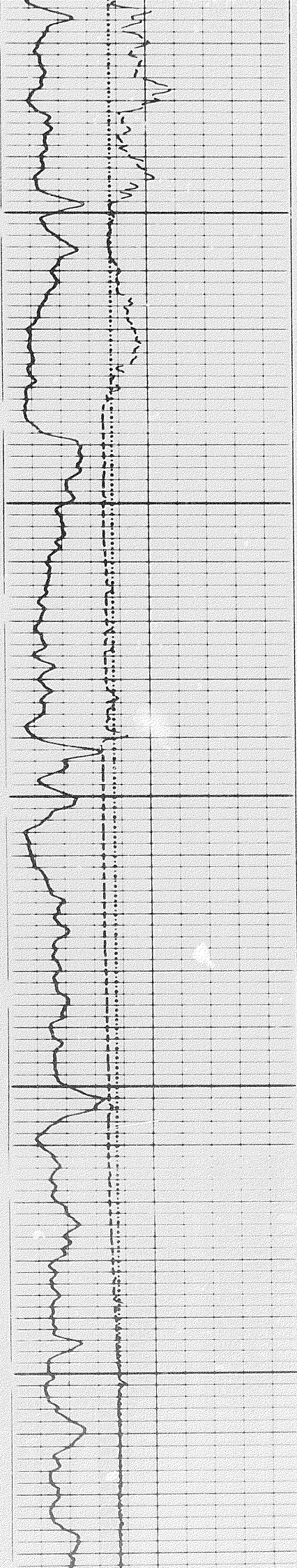


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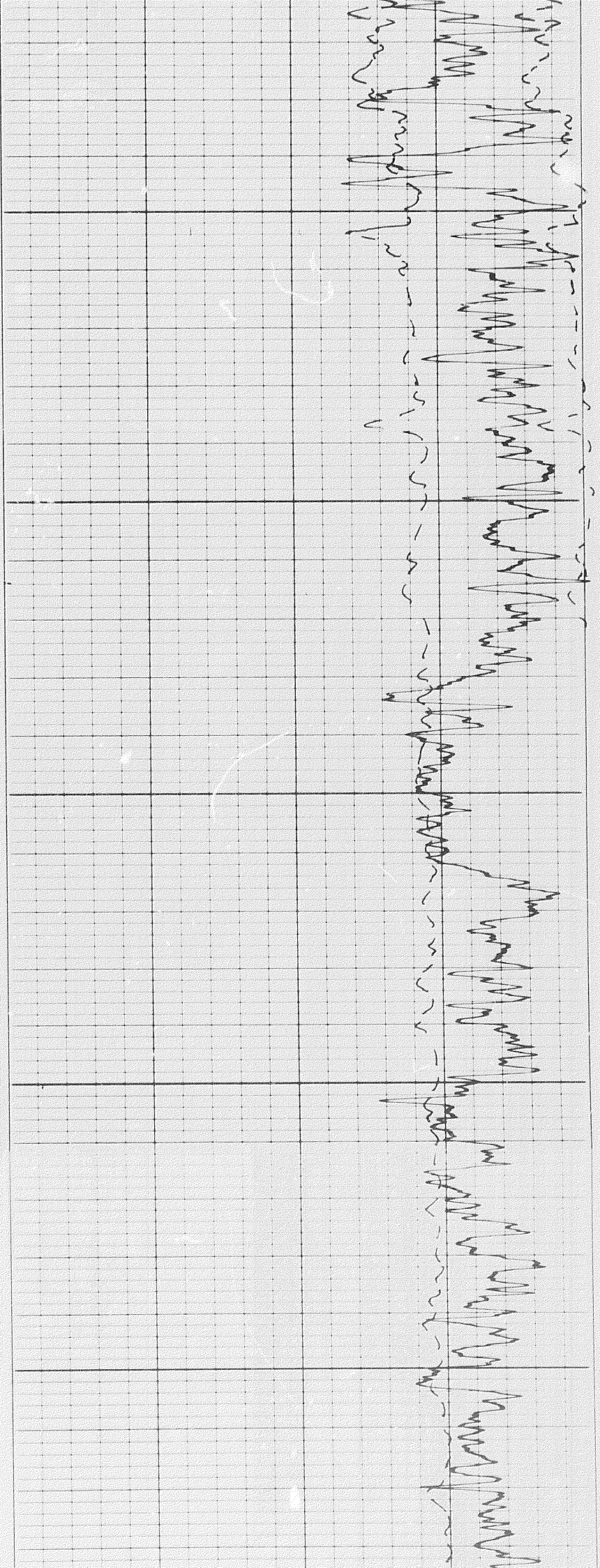
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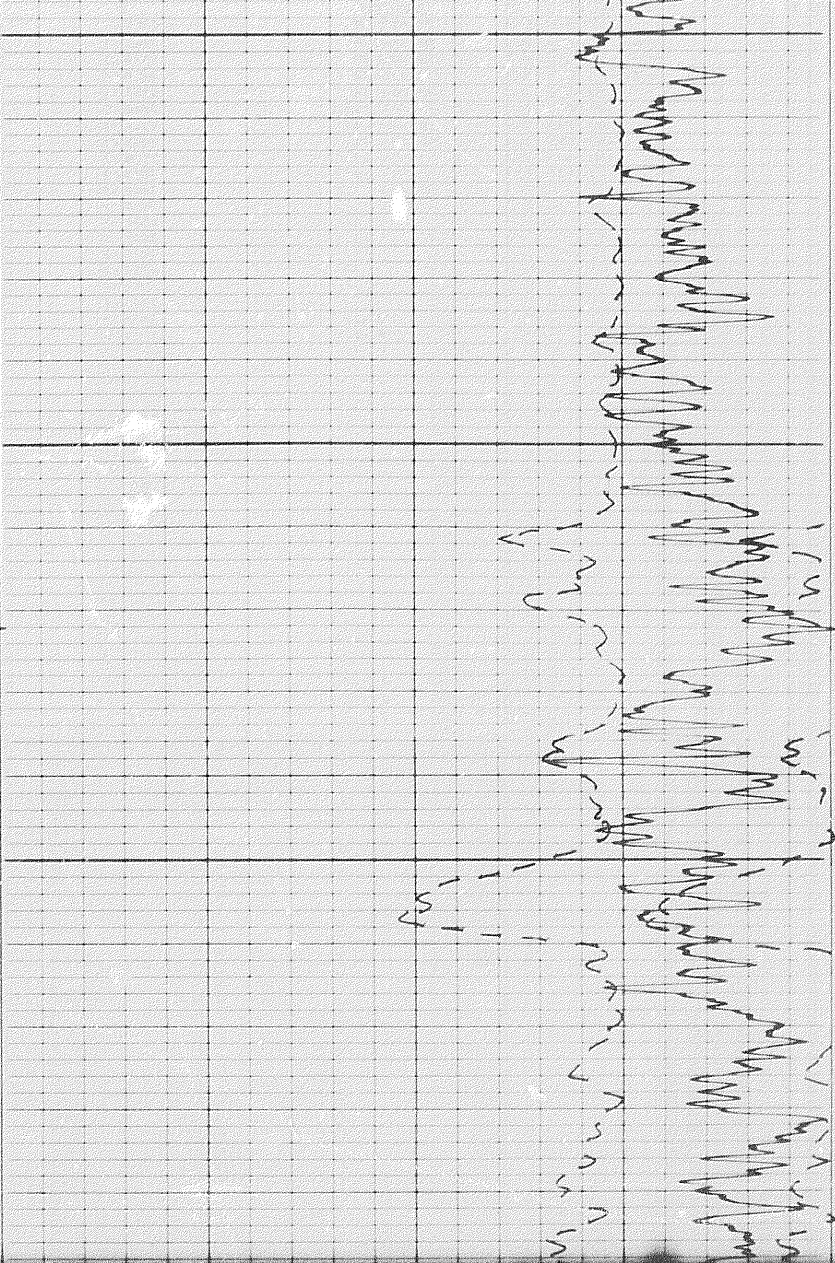




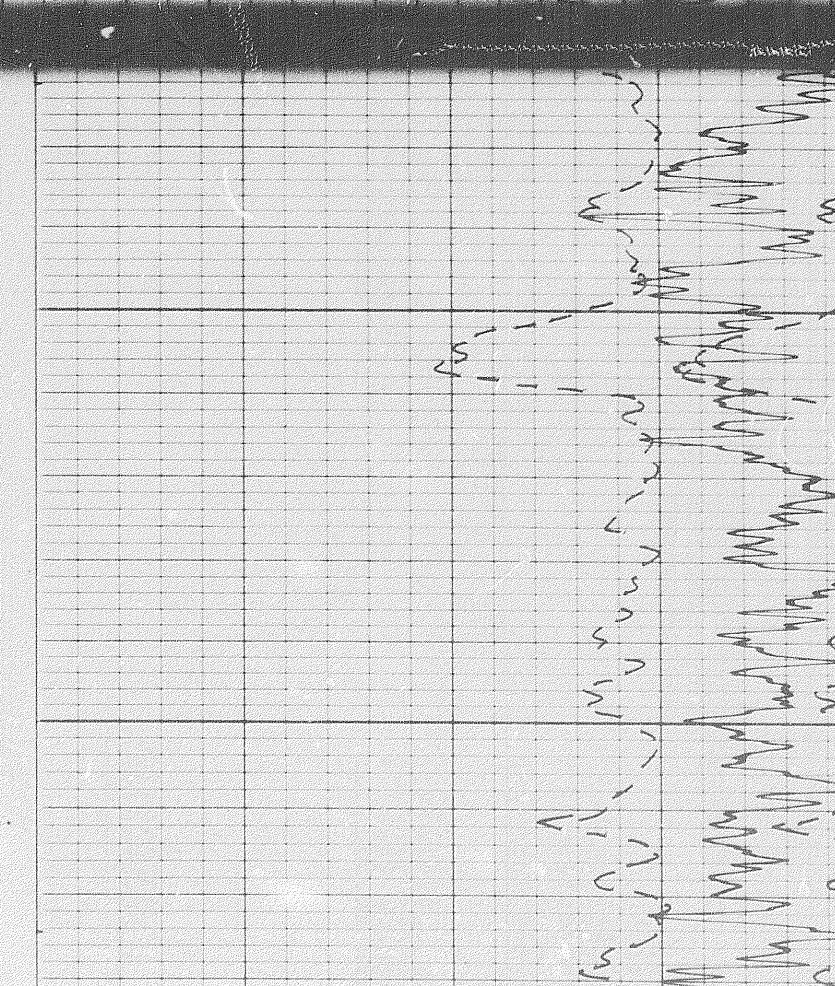
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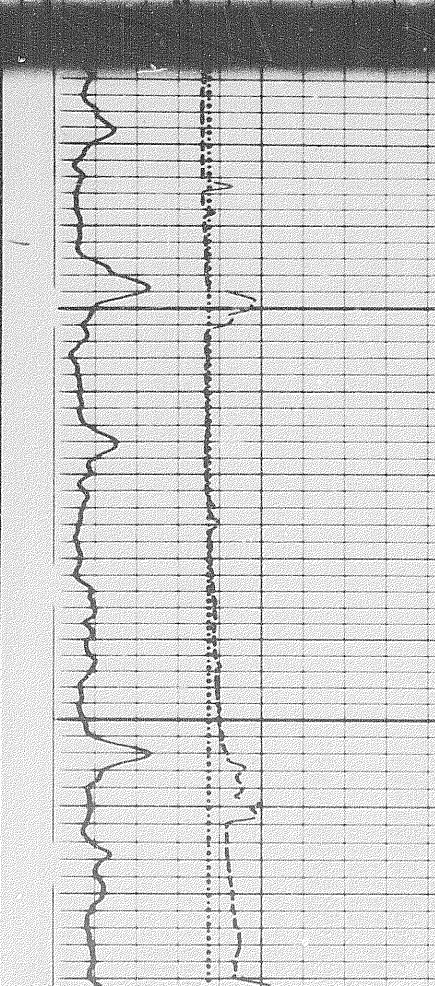
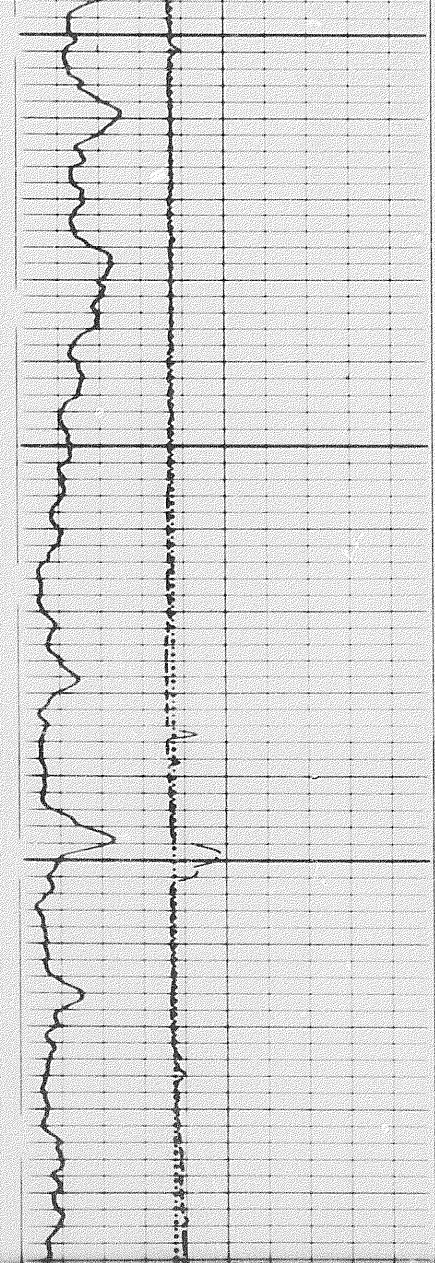




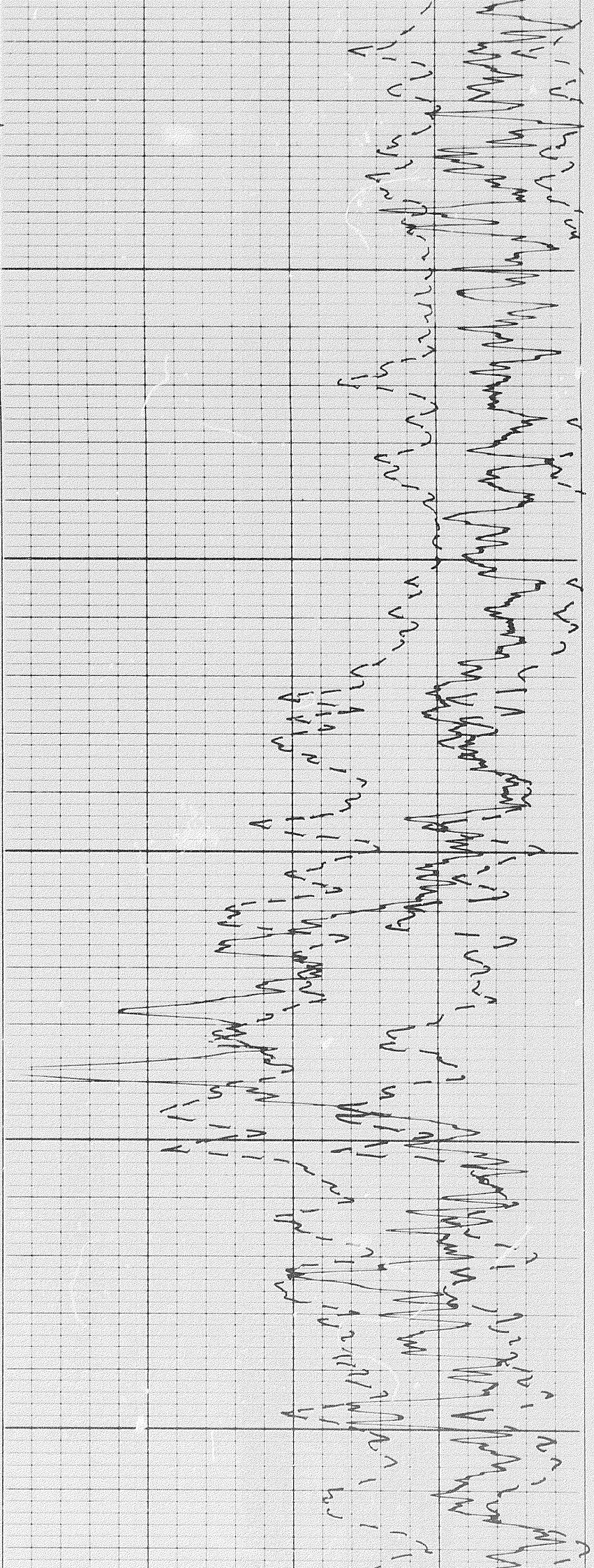
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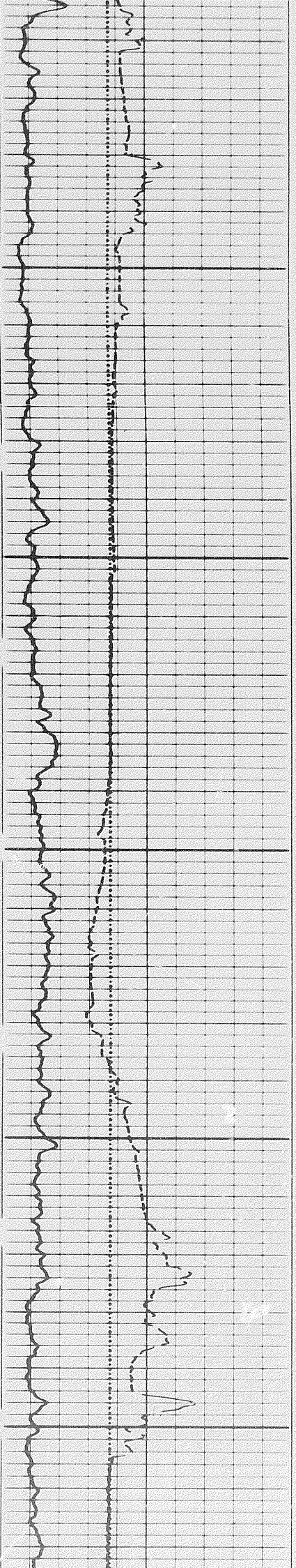


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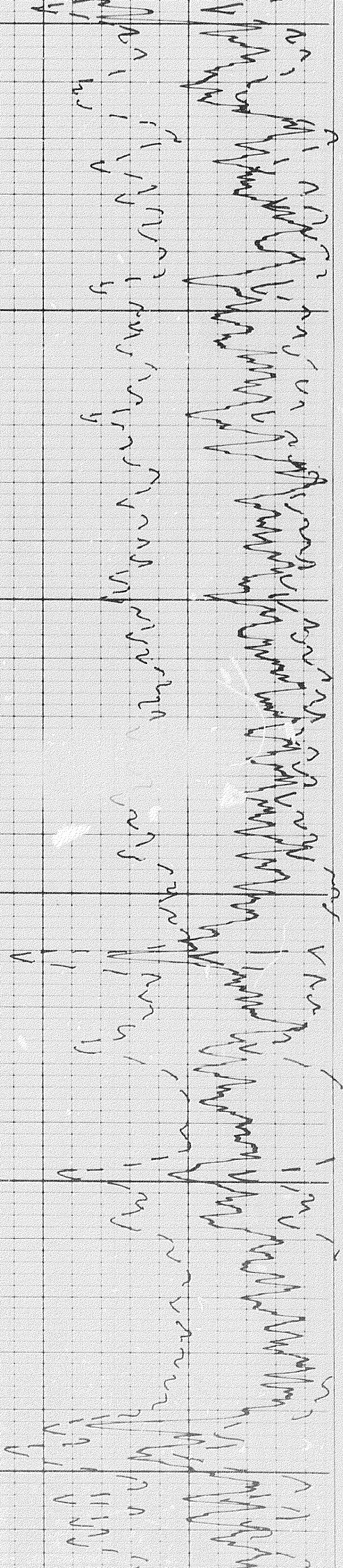


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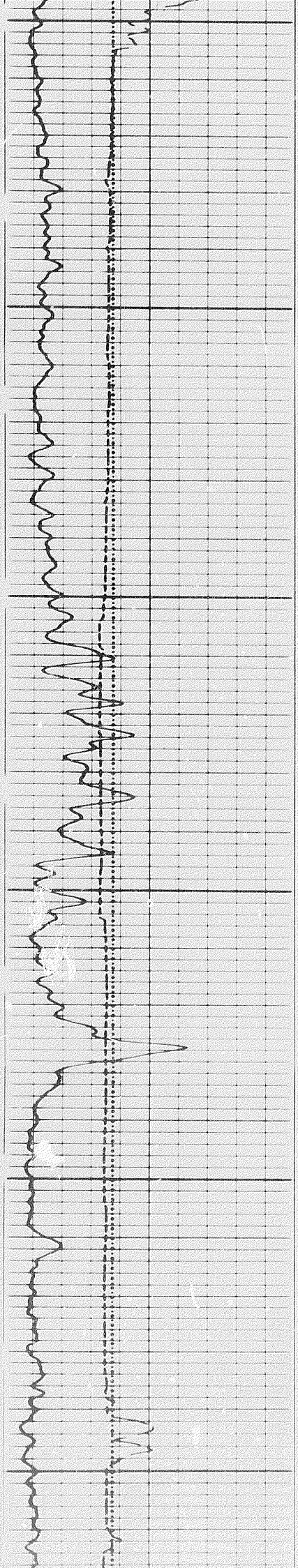
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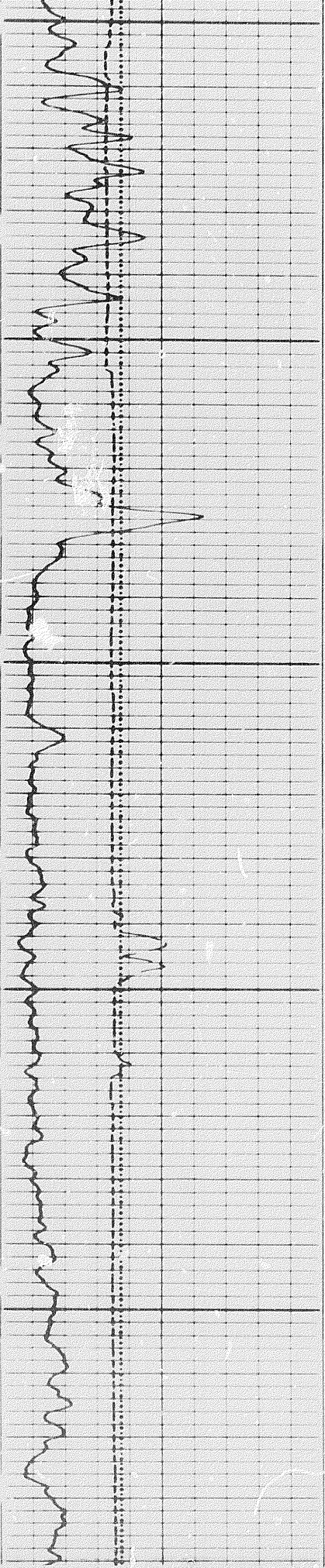


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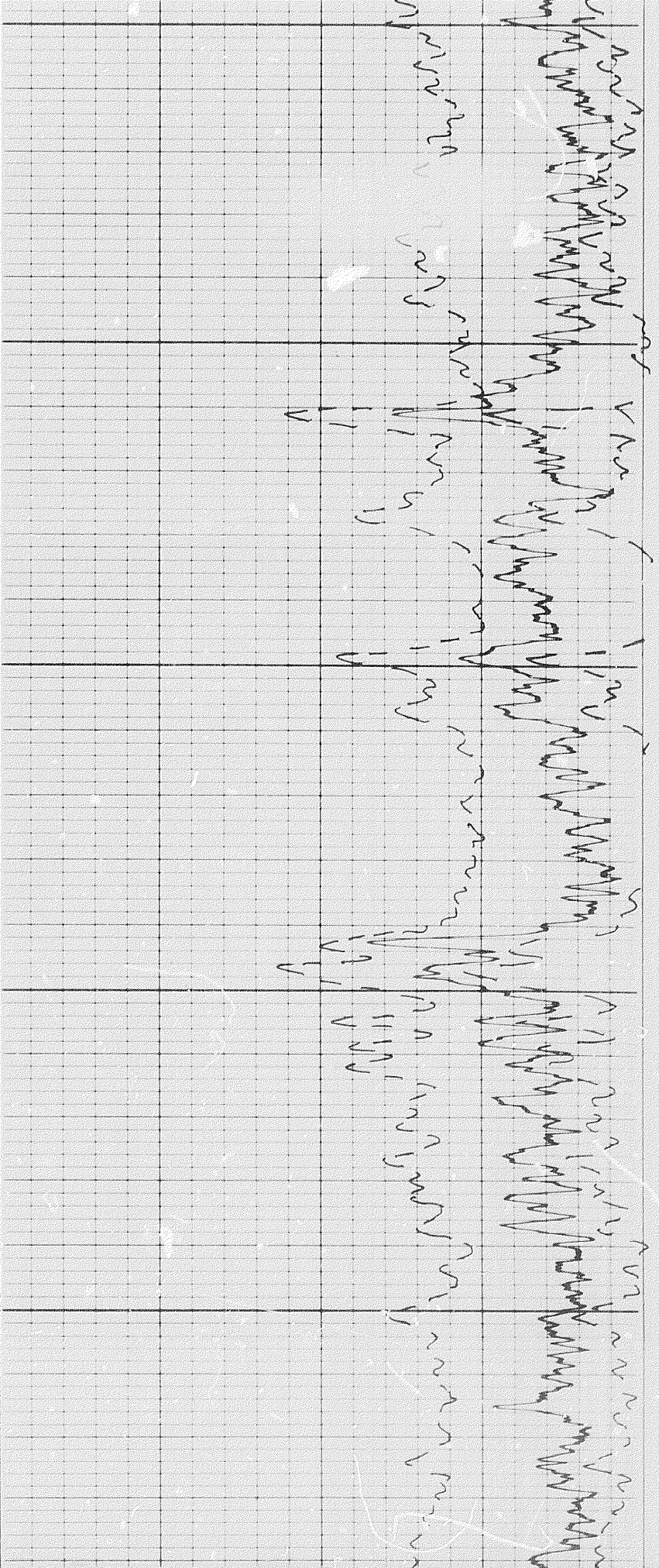
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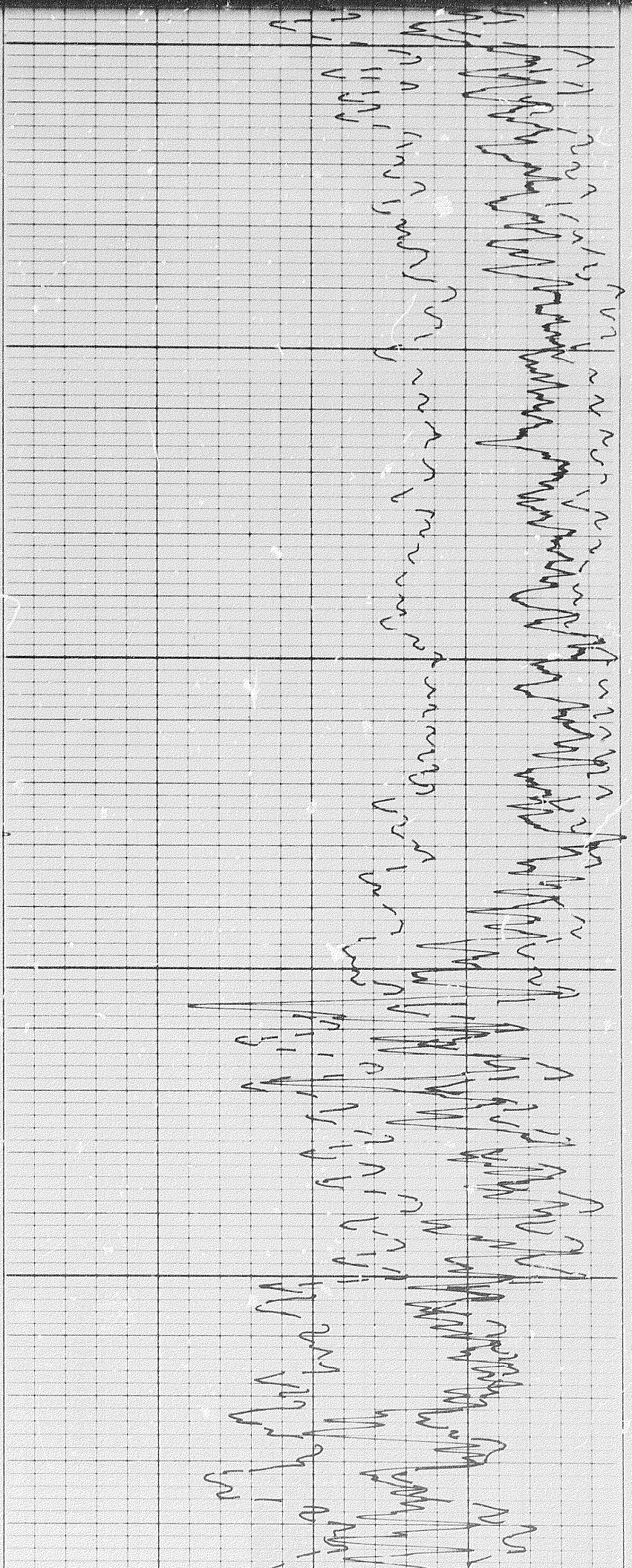




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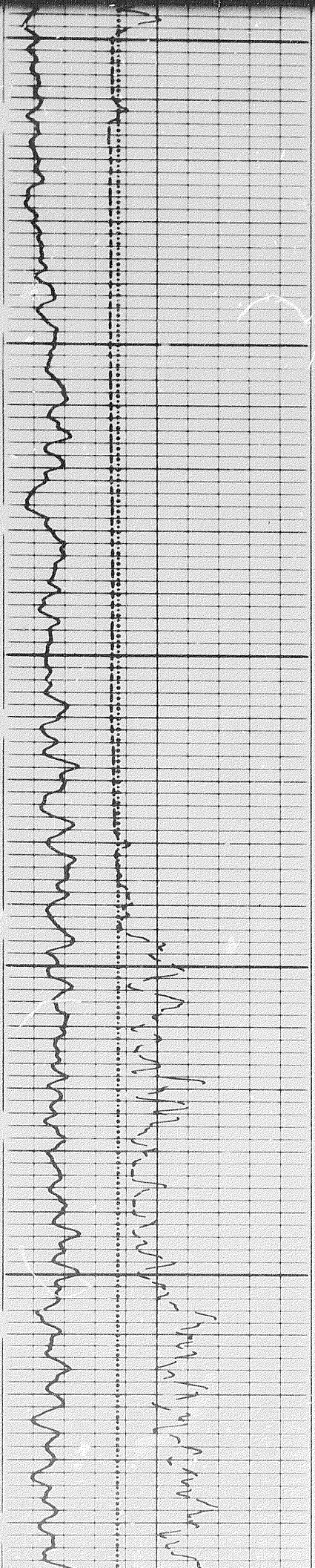




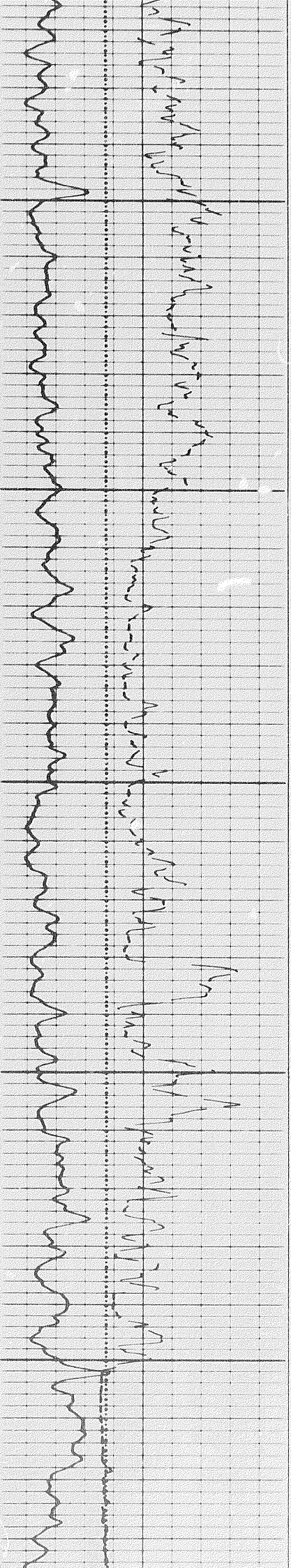
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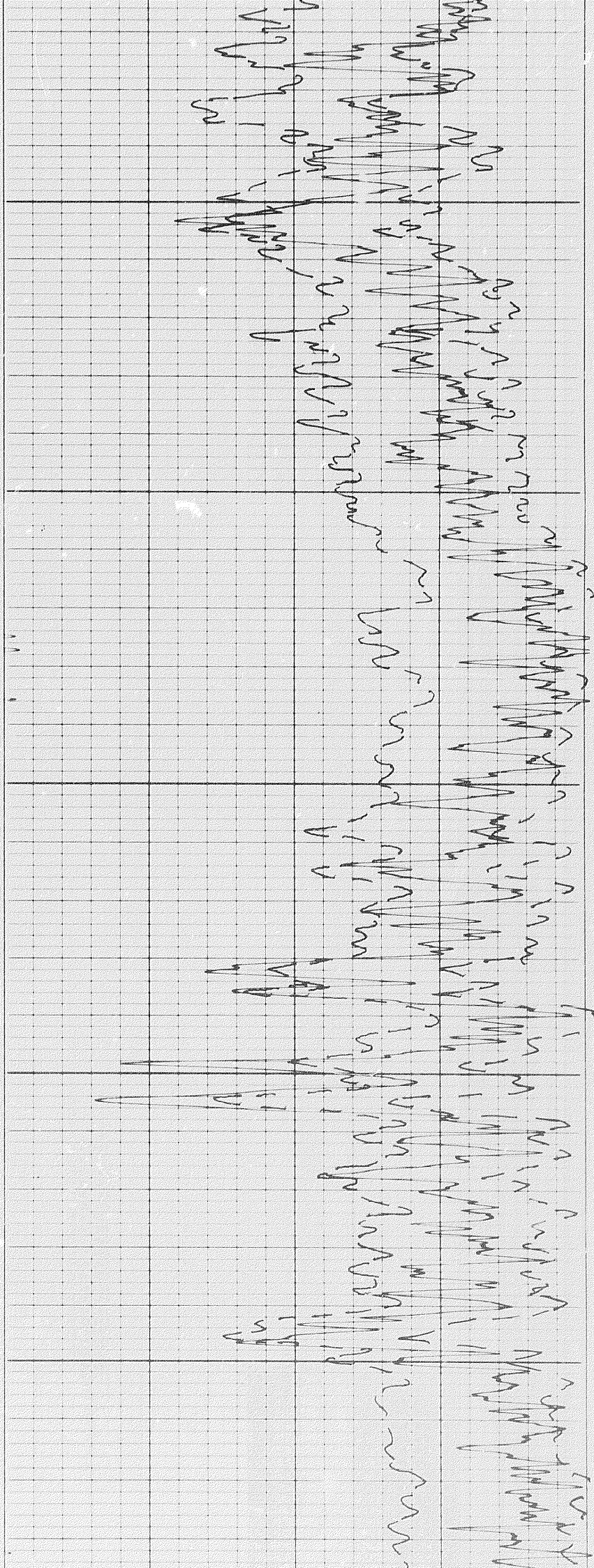


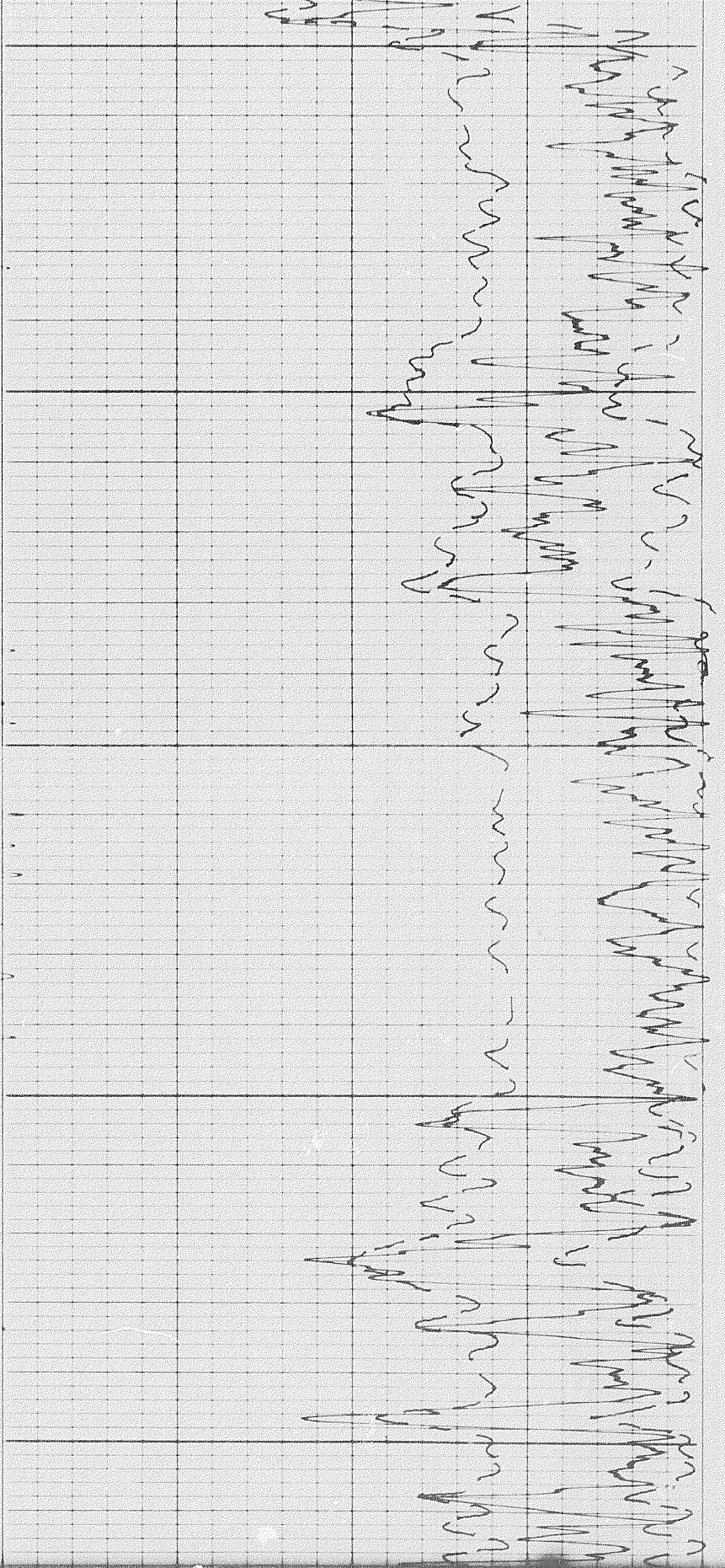
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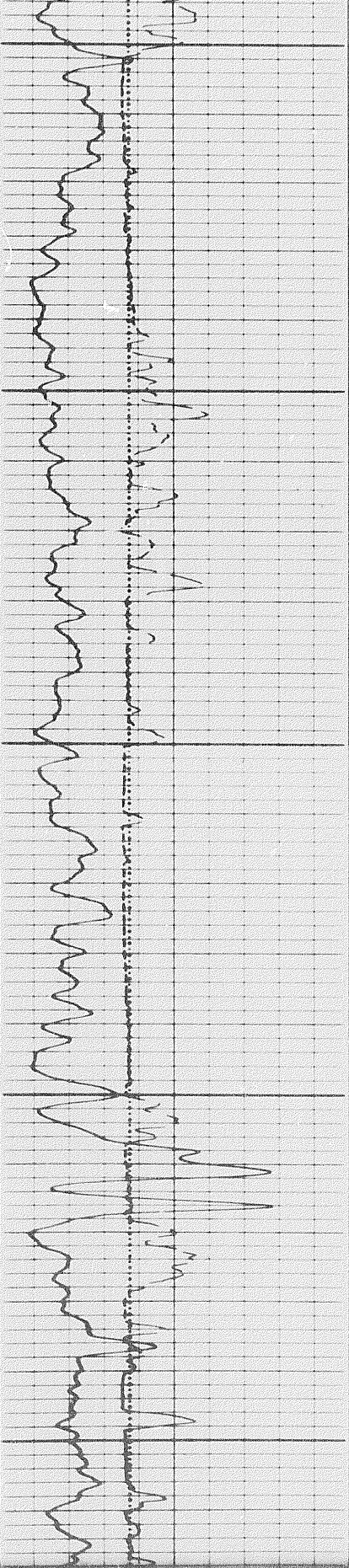
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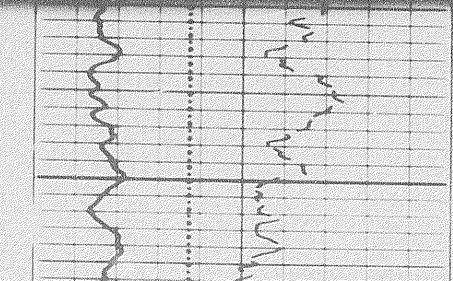
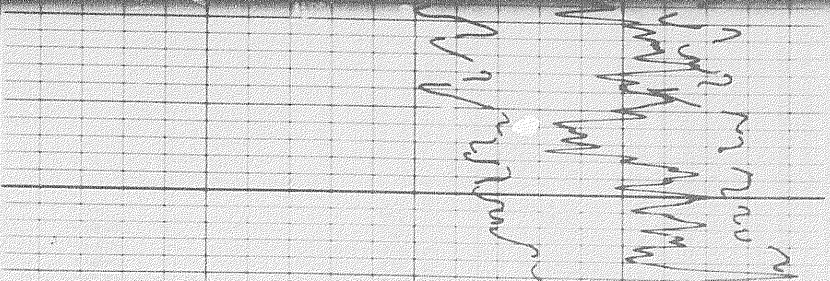


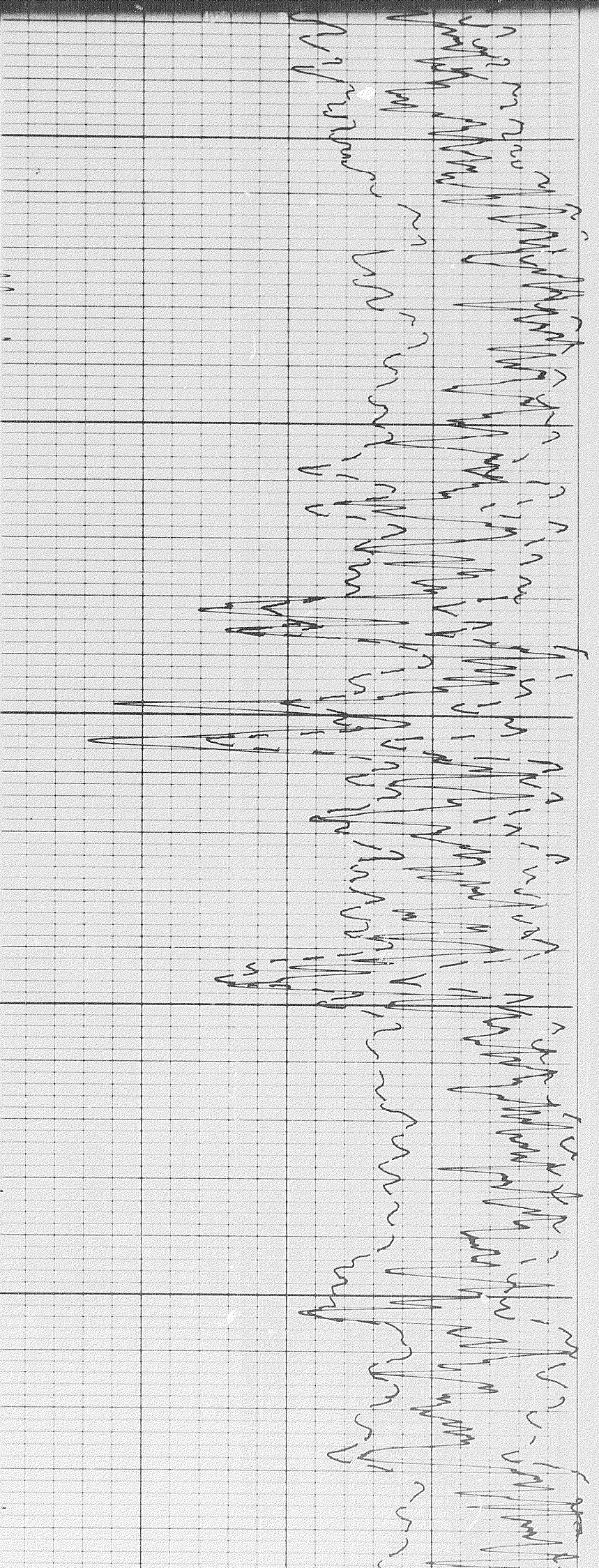
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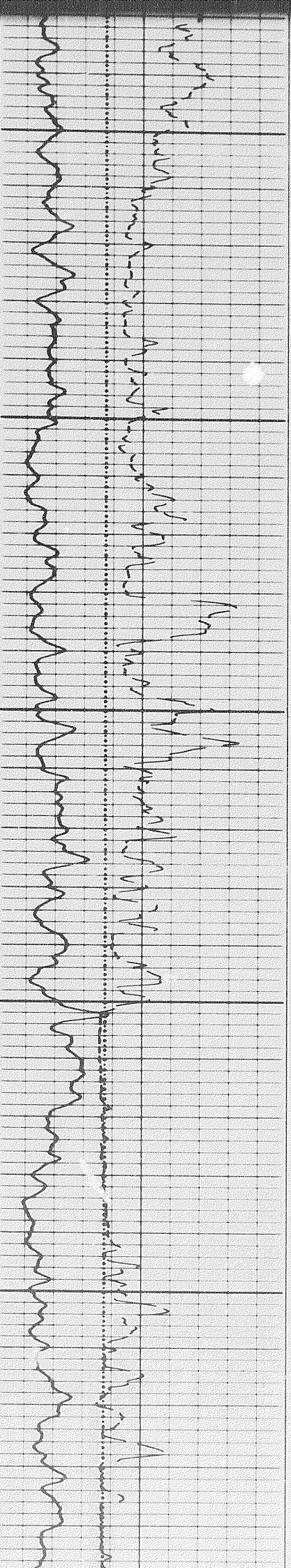




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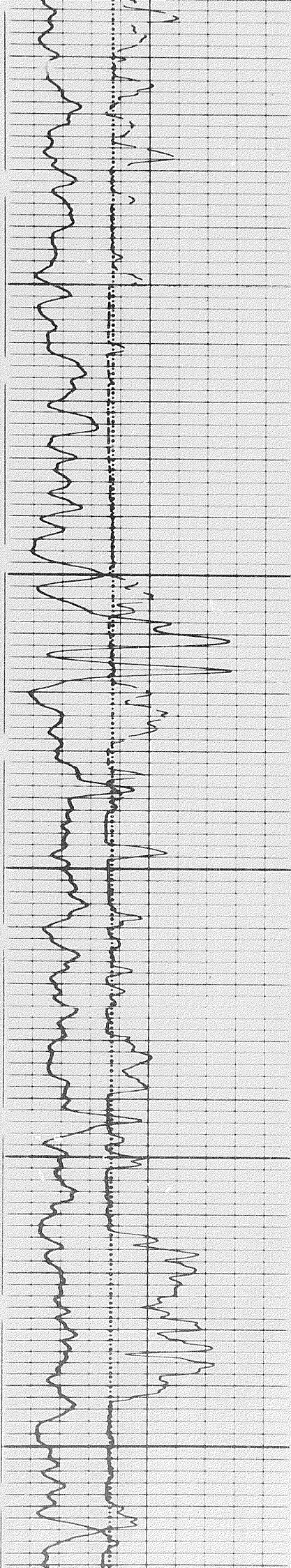
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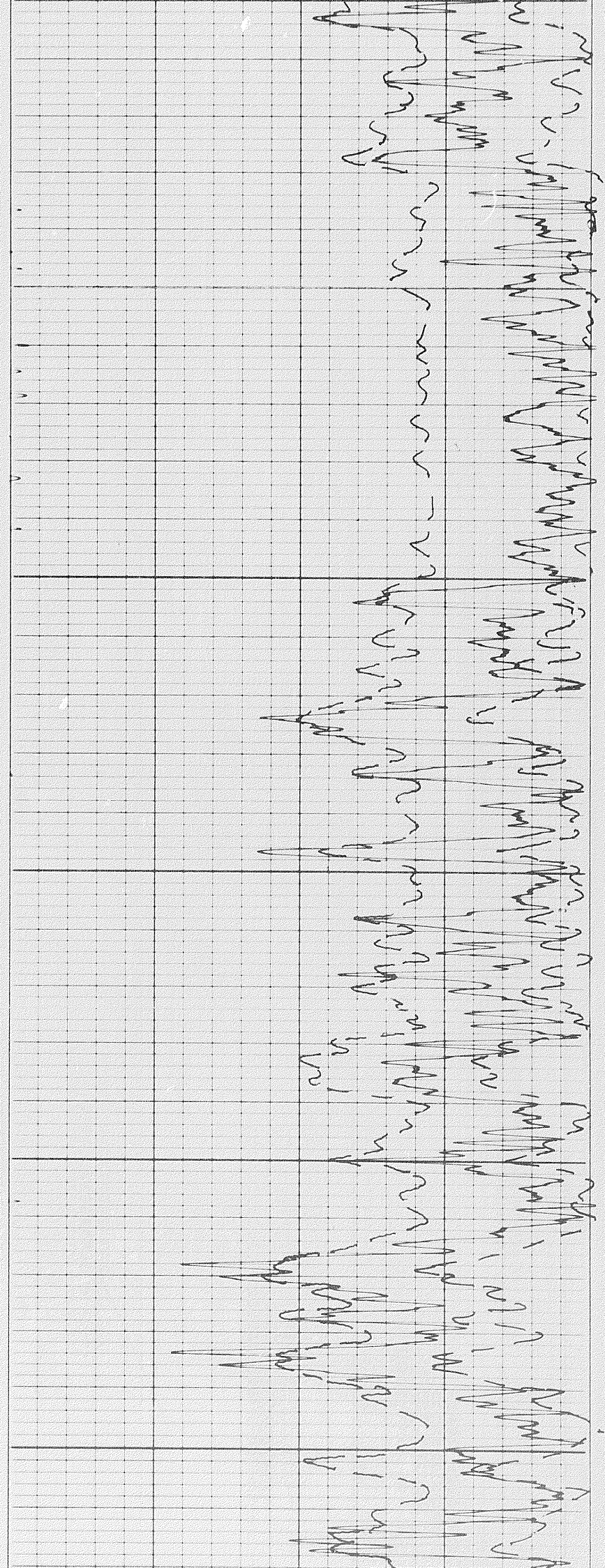
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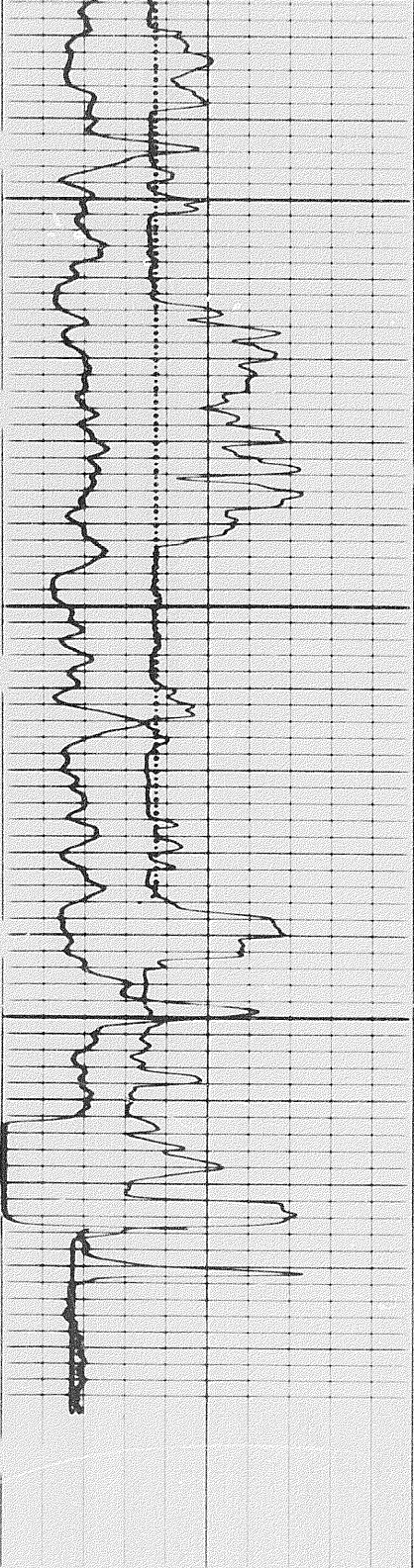


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