

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.5. Lease Serial No.
NMNM85939

6. Indian, Allottee or Tribe Name

HOBBS OCD**SUBMIT IN TRIPLICATE - Other instructions on page 2**

NOV 28 2018

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
COLIBRI 10 FB FEDERAL 20H9. API Well No.
30-025-42181-00-X110. Field and Pool or Exploratory Area
DIAMONDTAIL

11. County or Parish, State

LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Workover Operations
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Marathon Oil Permian LLC. respectfully requests permission to perform a remedial cement job in the style of a braiden head squeeze. A cement bond log was ran on the 5-1/2" 20# P-110 production casing showing the TOC at 6,500'. The proposed squeeze slurry is 402 sacks of 12.2 PPG class C cement with 2% CaCL with 50% excess. The volume calculations are in 8-3/4" hole with 5-1/2" casing from 6,500' to 3,800' allowing for 1,020' of overlap into the next casing string. The 9-5/8" 40# J-55 intermediate shoe is set at 4,820'.

Carlsbad Field Office
OCD Hobbs

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #441026 verified by the BLM Well Information System
For MARATHON OIL PERMIAN LLC, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 11/15/2018 (19PP0423SE)**

Name (Printed/Typed) JENNIFER VAN CUREN

Title SR. REGULATORY COMPLIANCE REP

Signature (Electronic Submission)

Date 10/24/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USEApproved By MUSTAFA HAQUETitle PETROLEUM ENGINEERDate 11/20/2018

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED *****MHB/OCD*
11/24/2018

**PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	MARATHON OIL PERMIAN LLC.
LEASE NO.:	NMNM085939
WELL NAME & NO.:	COLIBRI 10 FB FEDERAL 20H
SURFACE HOLE FOOTAGE:	212'/N & 2222'/E
BOTTOM HOLE FOOTAGE	330'/S & 1982'/E
LOCATION:	Section. 10., T23S., R.32E., NMP
COUNTY:	Lea County, New Mexico

All previous COAs still apply.

-A cement bond log shall be run from 7400' to 3000' to verify TOC.



Colibri Federal 23 32 10 FB 20H
Braidenhead Squeeze

Surface Coordinates

Lat: 32.32573680 N
Long: -103.66067888 W
(NAD 27' Lat/Long)
RKB: 3734.5'

General Information

Lea County, NM
API # 30-015-42181
WBS # DD.18.01543.D1
N-10-23S-32E 212' FNL 2222' FEL

Prepared by: Kyle Schriener

Contents

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Marathon Oil Personnel

Name	Title	Location	Cell	Email
Brent Evans	Drilling Manager	Houston	(832) 967-8474	bevans@marathonoil.com
Matt Rugaard	Drilling Supervisor	Houston	(281)-513-5163	mprugaard@marathonoil.com
Mark Bly	Drilling Superintendent	Carlsbad	(281) 840 0467	
Kyle Schriener	Drilling Engineer	Houston	(210) 259 1709	kschriener@marathonoil.com
Nick Rogers	Permian HES Advisor	Carlsbad	(281) 659-3734	
Cody Snuggs	Completion Superintendent	Carlsbad	(432) 202-0194	jauld@marathonoil.com

Emergency Telephone Contacts

Name	Title	Location	Office
Fire Department		Hobbs, NM	575-397-9308
Ambulance			911
Sheriff office	Lea County Sheriff	Lovington, NM	575-396-3611
BLM (Jim McCormick)	Superisory Petroleum Eng. Tech.	Hobbs, NM	575-942-5801

Vendors List

Service	Vendor	Contact	Office	Cell
Cementers	Nine Energy	Winston Kyser		832-612-0496

Driving Directions

From the intersection of NM Hwy 31 & NM Hwy 128, head south on NM Hwy 128 for 19 miles to an existing lease road

Turn left on the existing lease road heading north for 5.6 miles

Turn left on lease road for 1.4 miles

Turn right on lease road for 1.6 miles

Turn left on lease road for 0.3 miles the Urraca 23-32-11 AV #24H well location will be on the right.

Continue for 0.2 miles entering the southeast corner of the Urraca Federal 23-32-11 SB #4H well location.

Continue west for 0.3 miles entering the southeast corner of the Colibri Federal 23-32-10 AV #24H.

Continue west for 0.3 miles entering the northeast corner of the Colibri Federal 23-32-10 FB #20H.

Objective

Perform braidenhead squeeze cement job placing cement behind the 5.5" production string from 6500' to 3,800' (1000' into 9-5/8" casing).

Well Information

The Uracca Federal 23 32 11 SB 4H is a Bone Springs horizontal well drilled by H&P 480. A radial CBL was ran in the 5.5" production casing string revealing that the TOC was @ 6,530' which does not overlap into the 9 5/8" intermediate casing string. The 5.5" casing was ran in 8-3/4" hole.

Casing details:

Surface: 13-5/8" 54.50# set @ 1,233' KB	Burst – 2,730 psi	
Intermediate 1: 9-5/8" 40# set @ 4,846' KB	Burst – 5,750 psi	Collapse – 3,870 psi
Production: 5.5" 20# set @ 14,589' KB	Burst – 12,640 psi	Collapse – 12,100 psi

Formation tops:

Salado: 1,679' RKB

Base of Salt: 4,827' RKB

Lamar: 4,900' RKB

Bell Canyon: 5,010' RKB

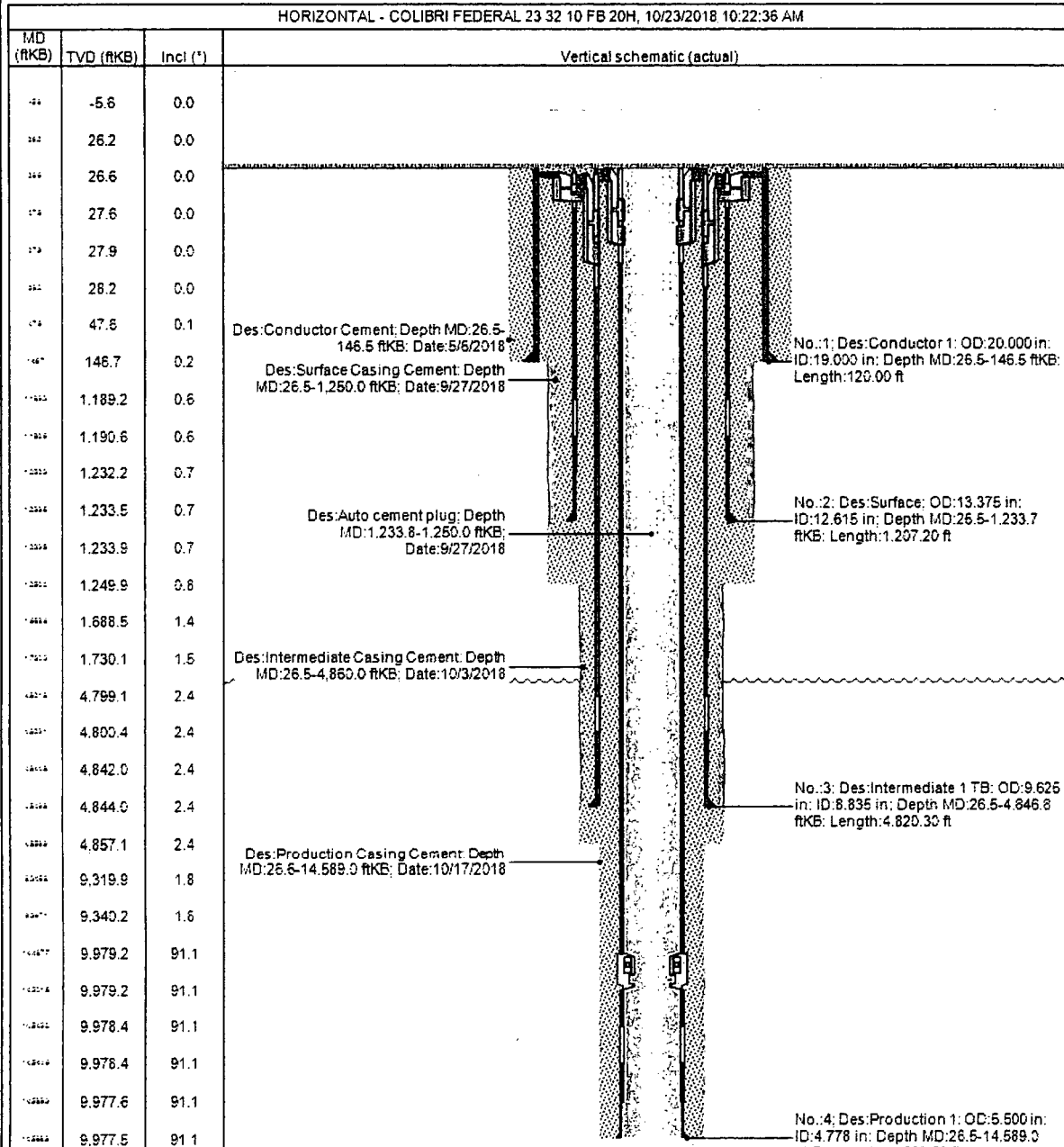
Brushy Canyon: 7,172' RKB

Wellbore Schematic



Well Name: COLIBRI FEDERAL 23 32 10 FB 20H

State/Province	Prospect Area	Field Name	Well Subtype	Lat/Long Datum	Latitude (°)	Longitude (°)
NEW MEXICO	RED HILLS	DIAMONDTAIL		NAD27	32.325739	-103.660702
Well Configuration Type	Well Objective	Well Status	Ground Elevation (ft)	MS-Grid Distance (ft)		
HORIZONTAL	EXPLOITATION	DRILLING	3,708.00	26.50		



7-1/8" 10M
51.9"
2-1/8" SMA
31.0"
1-13/16" 10M
10.0"
13-5/8" EM
31.6"
45.0"
2-1/8" SMA
21.1"
2-1/8" SMA
20" Conductor Pipe
13-3/8" Casing
9-5/8" Casing
5-1/2" Casing

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Procedure

*Procedure is subject to change prior to, or during operations

- 1. Prior to Mobilizing Cement Truck. Establish injection rate with pump truck.**
- 2. Hold PJSM with cementing crew and MOC rep.**
- 3. Ensure casing valve is shut and rig up cement iron to 2" 1502 hammer union on casing valve to 9 5/8" casing (top valve on casing head).**
- 4. Rig up manifold and pump into tubing head to hold pressure on inside of pipe (if available) and pressure up to 500 PSI.**
- 5. Pressure test pumping unit to 2,000 PSI**
- 6. Open casing valve**
- 7. Fill lines @ 1 BPM**
- 8. Initialize rate at 0.5 BPM bringing up to a max of 4 BPM if pressure is less than 1000 PSI.**
- 9. Record pump rate and pressure.**
- 10. Pump 10 total bbls of fresh water spacer (double check injection rate)**
- 11. Pump 190 bbls (402 sacks) (50% Excess) of 12.2 PPG Class C cement with 2% CaCl**
- 12. Chase with 20 bbls of fresh water.**
- 13. Shut down pumps and monitor pressure for 10 min.**
- 14. Bleed off pressure at pump truck and close casing valve.**
- 15. Bleed off pressure at manifold to relieve pressure off tubing head.**
- 16. Break cement lines and wash up to cellar.**
- 17. Rig down and mob cement unit and manifold (if using).**



RADIAL CEMENT BOND LOG

Company Well Field County State	Marathon				
	Colibri Fed 20H				
	Wolfbone (trend area)				
	Eddy		NM		
Location:		API # :		Other Services	
SEC		TWP		RGE	
Permanent Datum		Elevation		Elevation	
Log Measured From		Above Perm. Datum		K.B.	
Drilling Measured From				D.F.	
				G.L.	
Date		10/22/2018			
Run Number		ONE			
Depth Driller		N/A			
Depth Logger		10,060'			
Bottom Logged Interval		10,060'			
Top Log Interval		Surface			
Open Hole Size		N/A			
Type Fluid		Water			
Density / Viscosity		8.6lbs/Gal.			
Max. Recorded Temp.		N/A			
Max. Wellhead Pressure		1,000PSI			
Time Well Ready		18:30hrs			
Time Logger on Bottom		20:30hrs			
Equipment Number		Unit # 3			
Location		Midland Tx			
Recorded By		E.Luna			
Witnessed By		Kurt			
Size		Wt/Ft		Top	
Bottom					
Tubing Record					
Surface Casing		9.625		40.0	
Production Casing		5.5		20.0	
Liner Record					

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All interpretations are opinions based on inferences from electrical or other measurements and YellowJacket Oilfield Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and YellowJacket Oilfield Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

Limited well data provided.
Log tied into marker joint @ 4,347'.
KOP @ 9,387' - log started at 60deg Inc.
Main Pass logged @ 1,000psi
Est. cement top @ 7,400'

THANK YOU FOR USING YELLOWJACKET OILFIELD SERVICES!

Your YellowJacket Oilfield Services Crew		Tool Data - Services		Serial Number	
Engineer:		E.Luna			
Operator:		D.Jones			
Operator:		J.Taylor			
Operator:					

Sensor	Offset (ft)	Schematic	Description	Length (OD)	Weight (lb)
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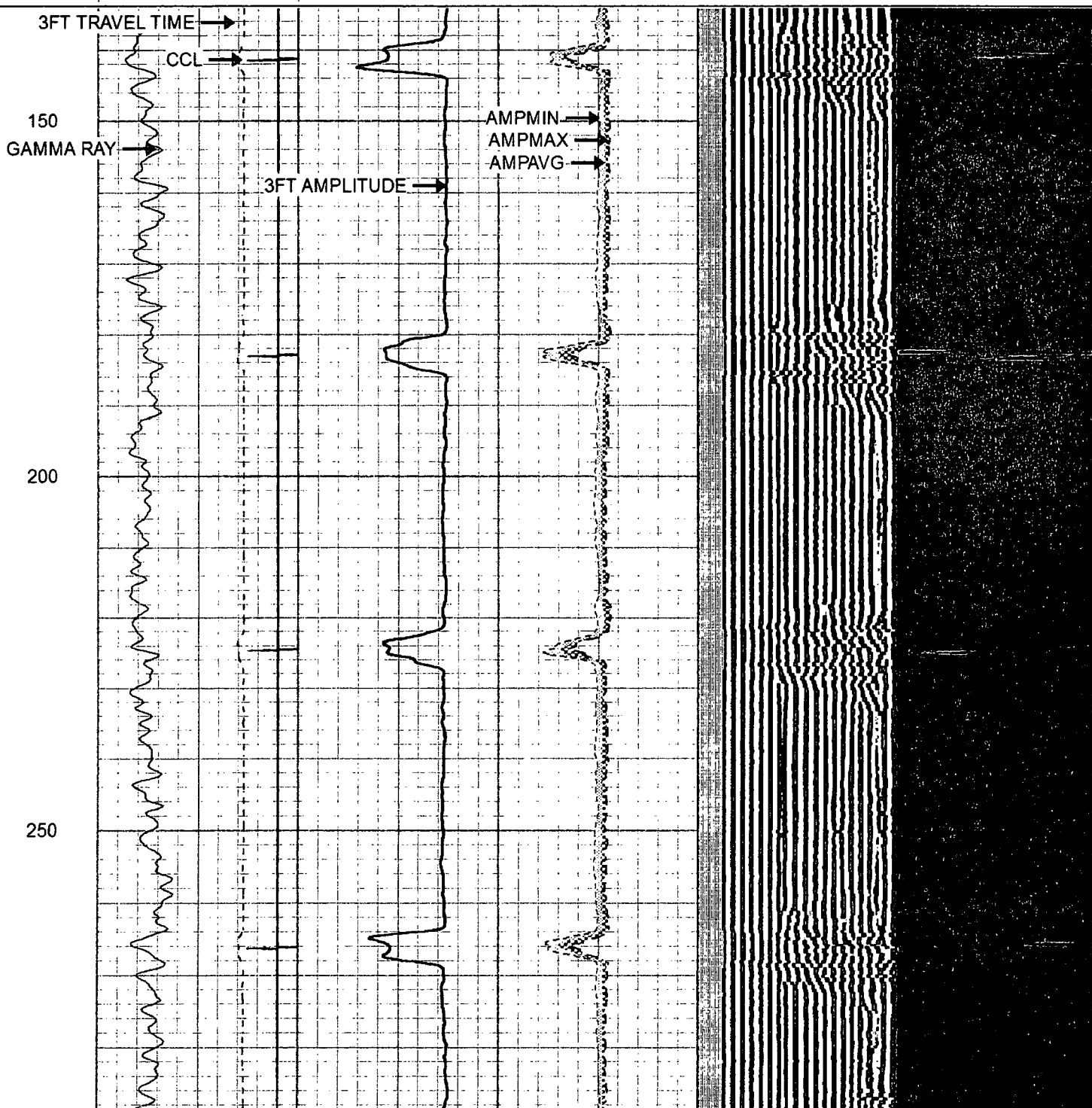
			CHD-1_4	1.00	1.36	5.00
CCL	19.56		CCL-31CCL45 (31CCL45-XXXX) 3-1/8" Tek-Co CCL	1.81	3.13	15.00
			CENT-2.75" 2.75" Variable Cent	2.83	2.75	15.00
TEMP	13.23					
WVFSYNC	13.23					
WVFCAL	13.23					
WVFS12	11.93					
WVFS11	11.93					
WVFS10	11.93		SCBL-32AST40 (32AST40-0248) Tekco 400 Deg F 12 Sector RIB with Temp	9.13	3.25	135.00
WVFS9	11.93					
WVFS8	11.93					
WVFS7	11.93					
WVFS6	11.93					
WVFS5	11.93					
WVFS4	11.93					
WVFS3	11.93					
WVFS2	11.93					
WVFS1	11.93					
WVF3FT	11.18					
WVF5FT	10.18					
WVFTEMP	6.85		CENT-2.75" 2.75" Variable Cent	2.83	2.75	15.00
GR	1.42		GR-27GRL35 (27GRL35-XXXX) 2 3/4" GAMMA RAY	4.02	2.75	25.00

Dataset: 10-22-18_el1146_marathonrcbl.db: field/well/run1/pass6
 Total length: 21.62 ft
 Total weight: 210.00 lb
 O.D.: 3.25 in

Main Pass (5"/100')

Database File 10-22-18_el1146_marathonrcbl.db
 Dataset Pathname pass6
 Presentation Format 12sec
 Dataset Creation Mon Oct 22 20:40:57 2018
 Charted by Depth in Feet scaled 1:240

3FT TRAVEL TIME	3FT AMPLITUDE	0	AMPAVG	200	200	VDL (usec)	1200	1	Cement Map	12
380 (usec)	180	0	(mV)	100	0	AMPMAX	200			
9 CCL	-1	0	3FT AMPx5 (mV)	20	0	AMPMIN	200			
GAMMA RAY										
0 (GAPI)	150									



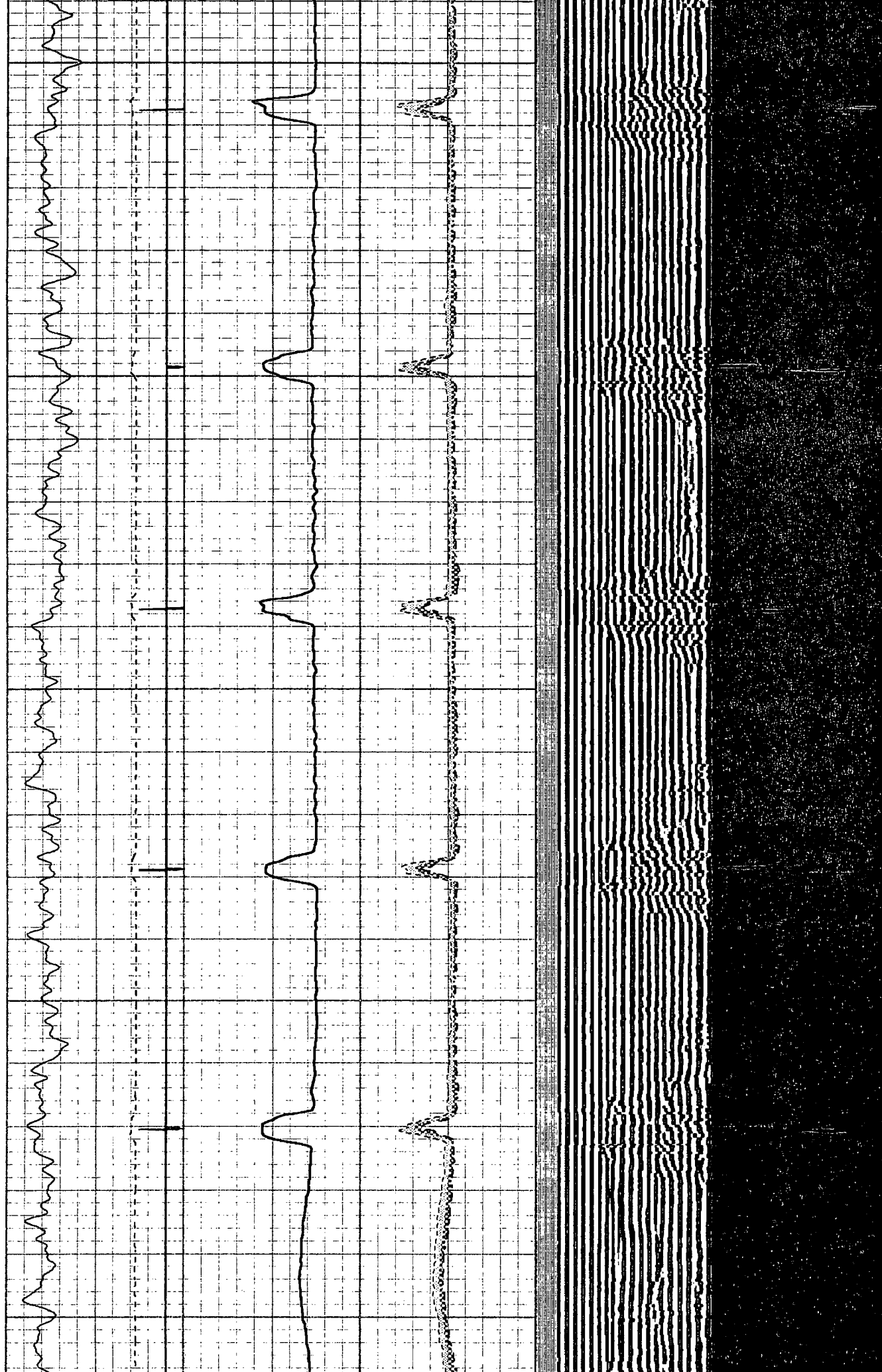
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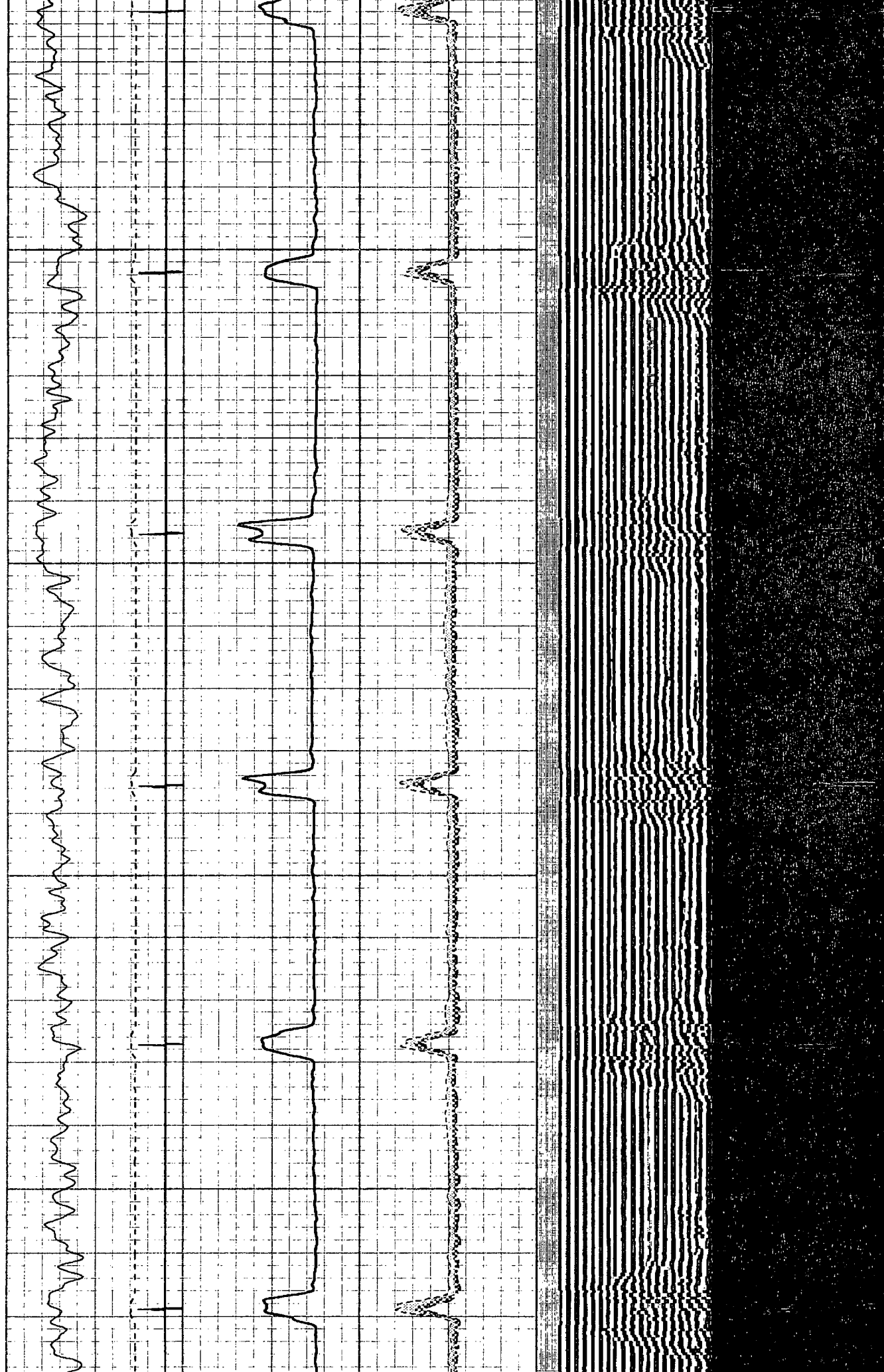


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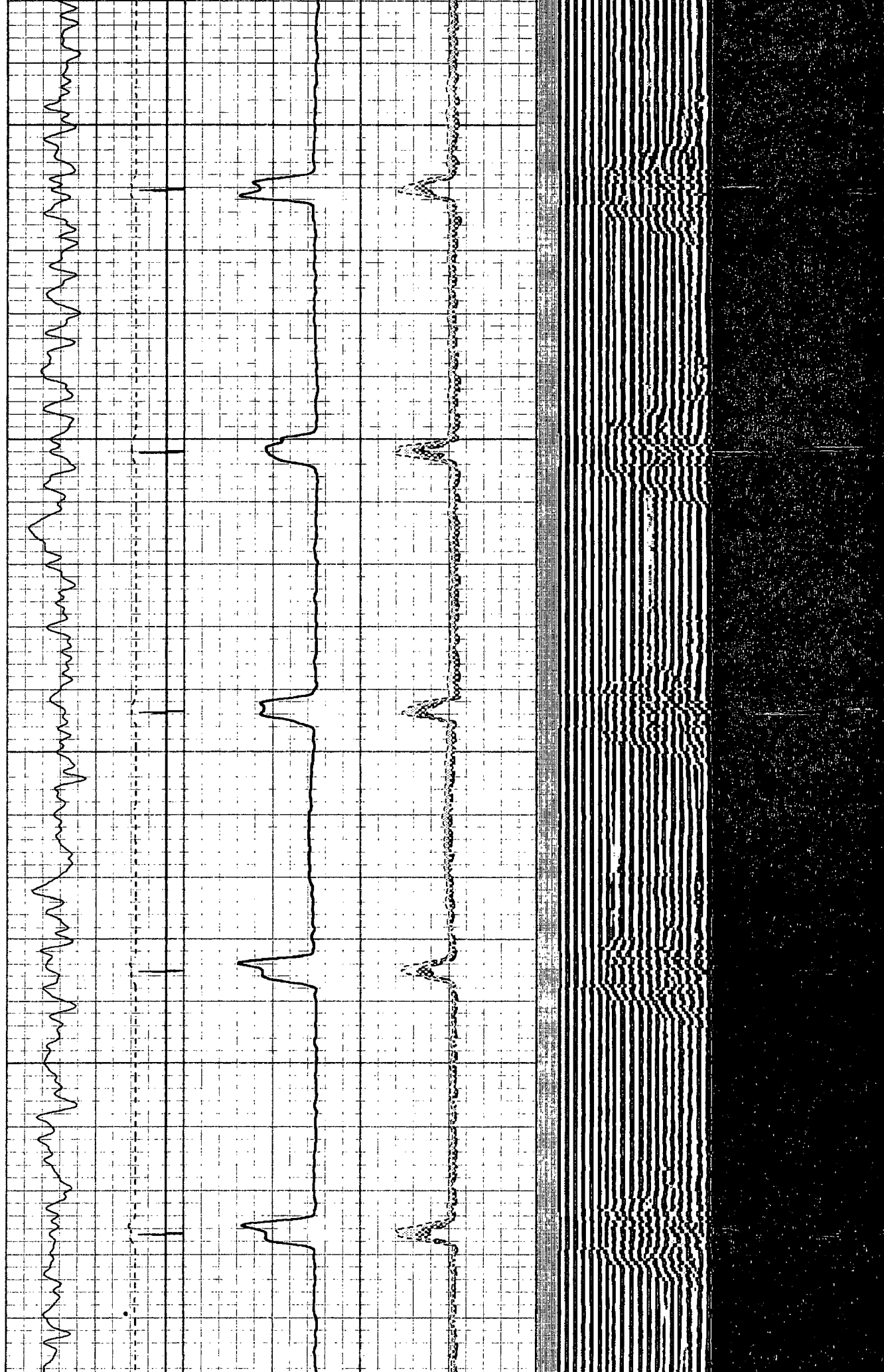


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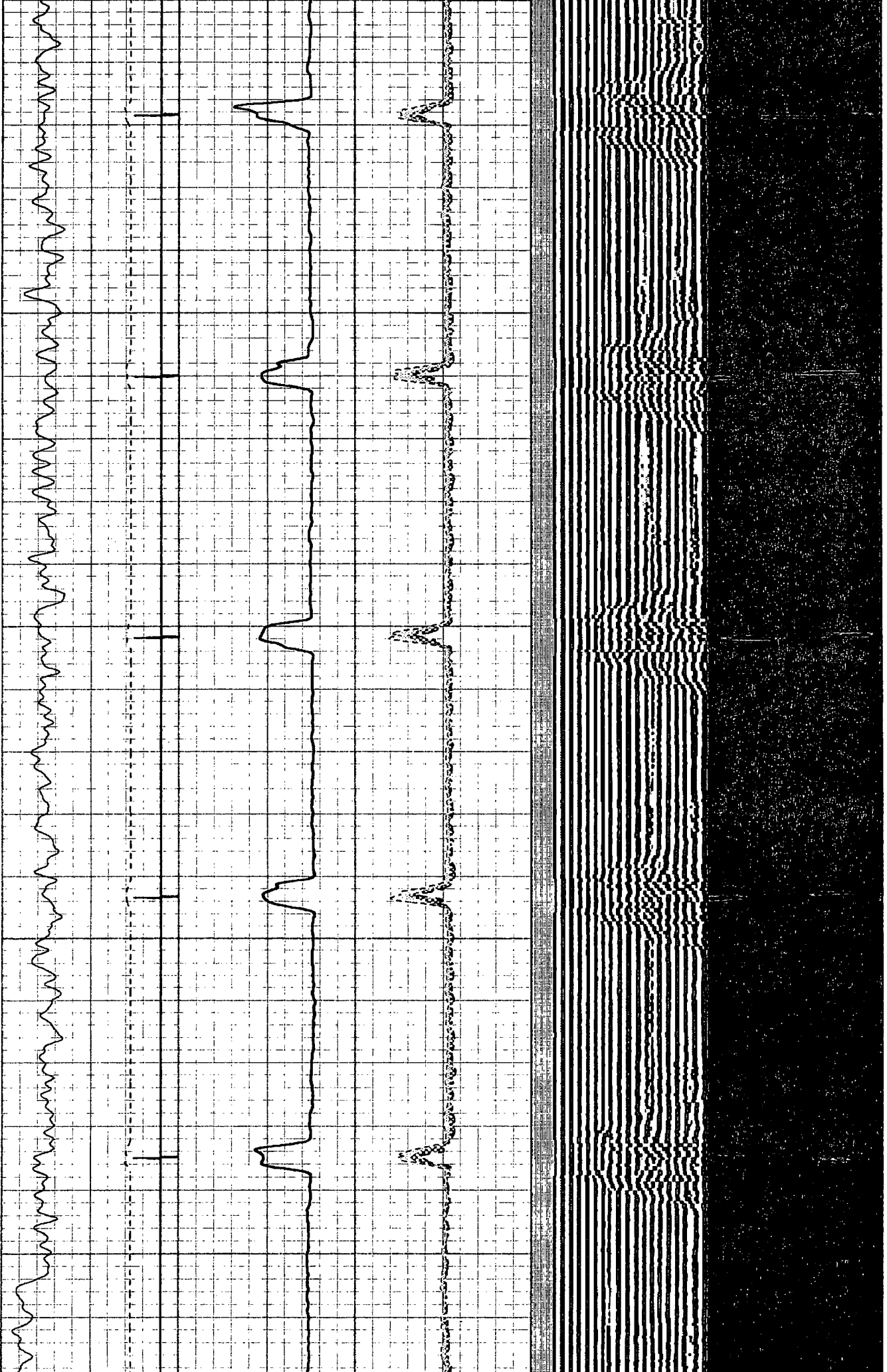
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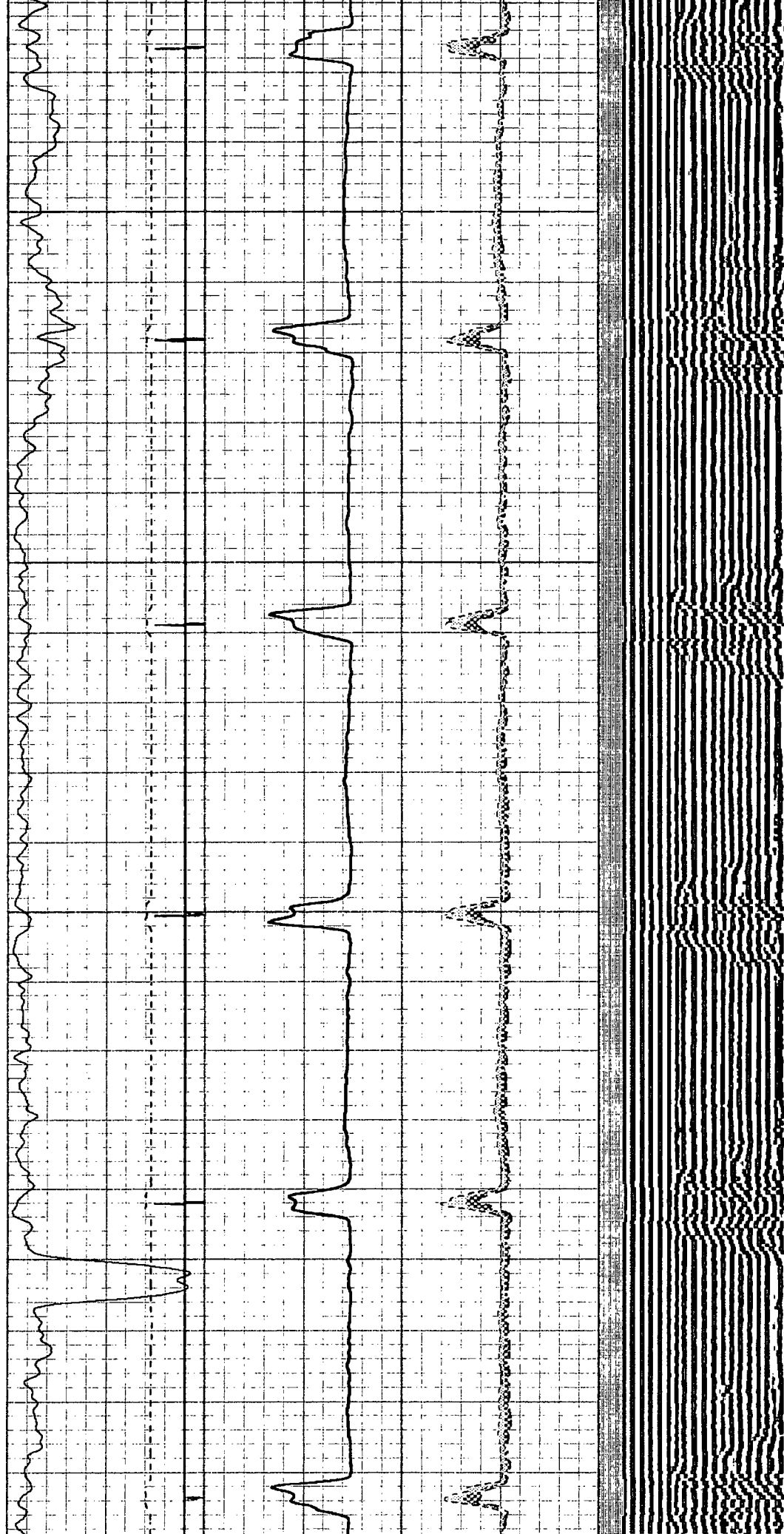


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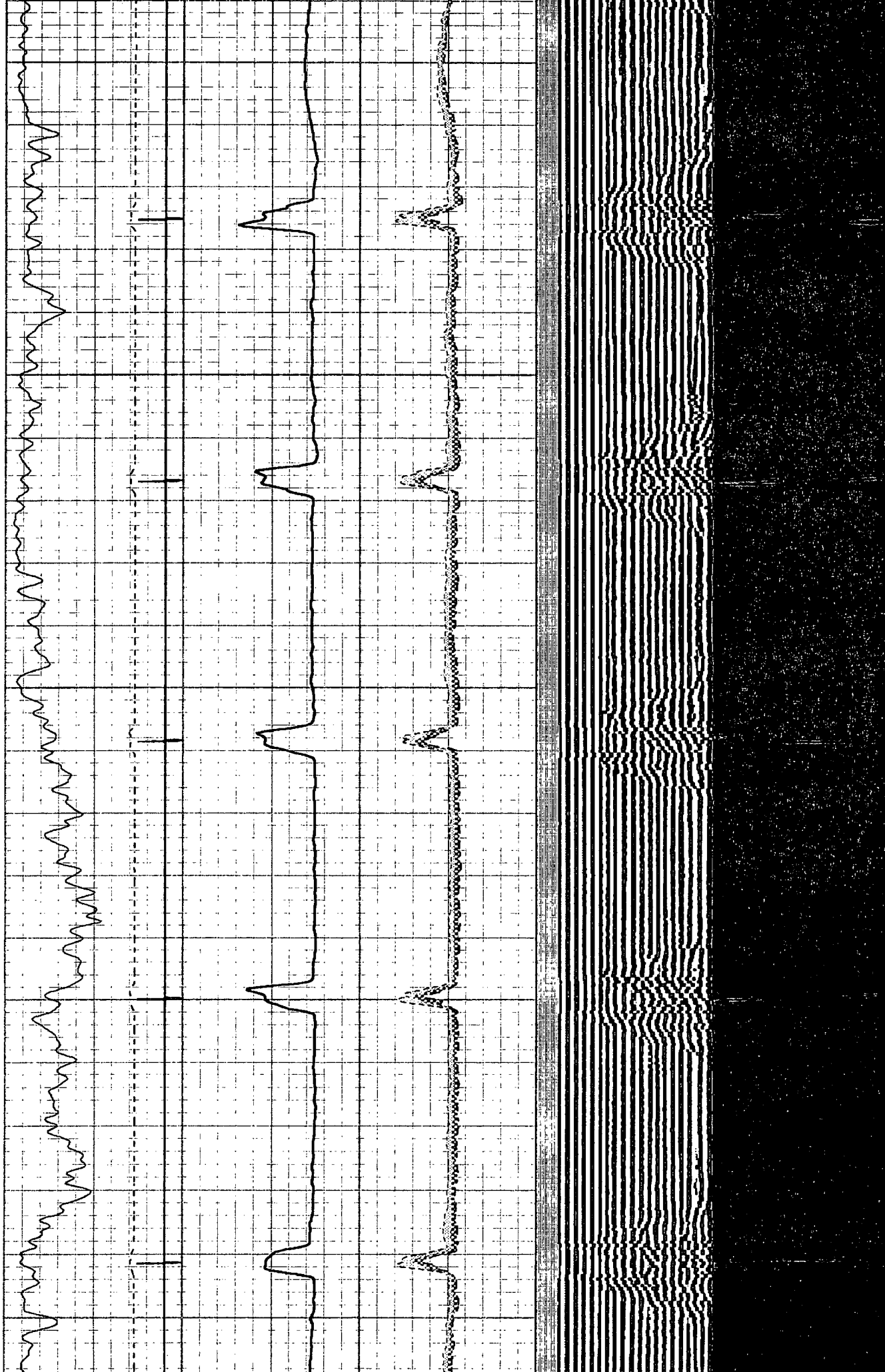
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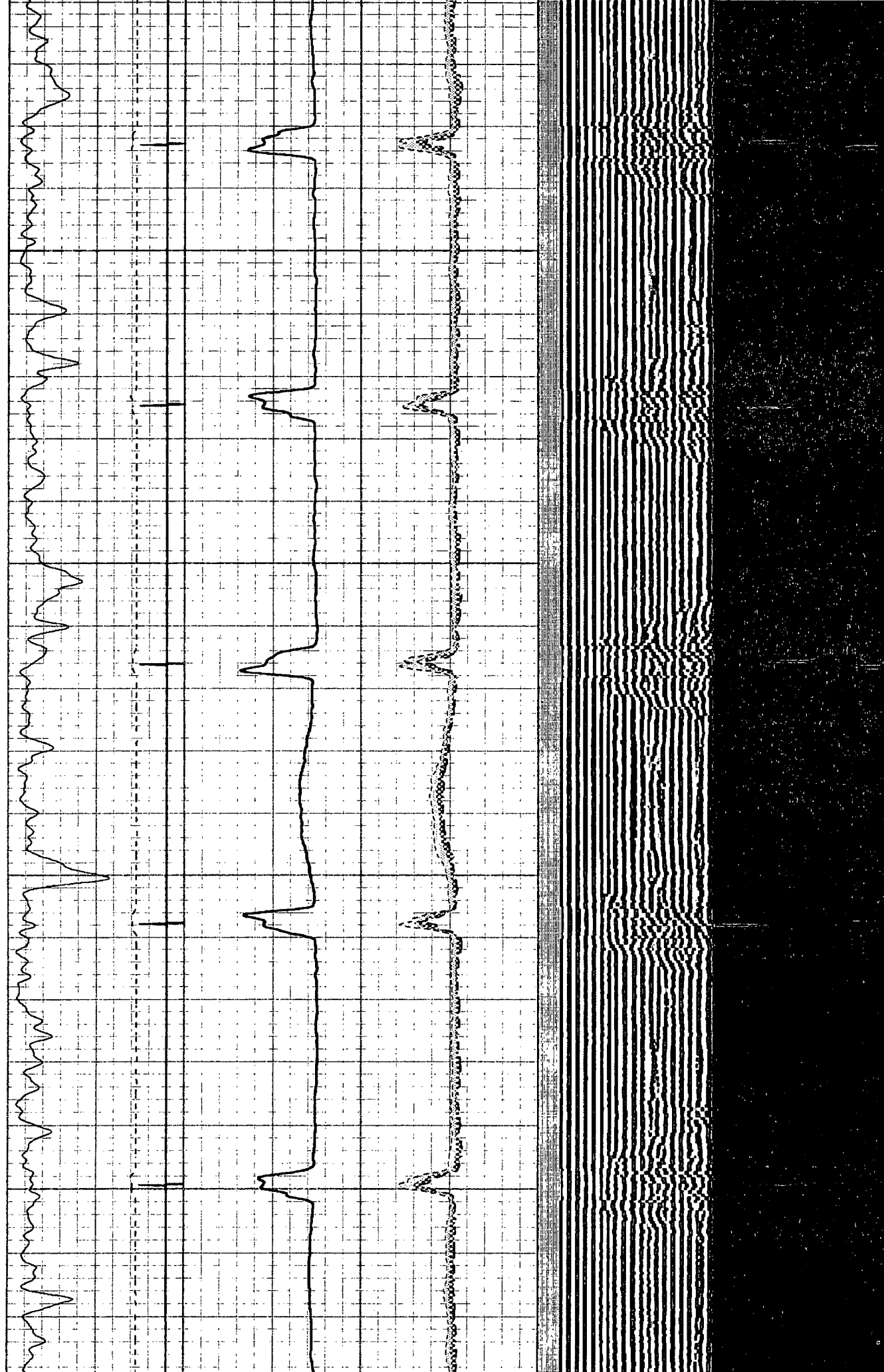


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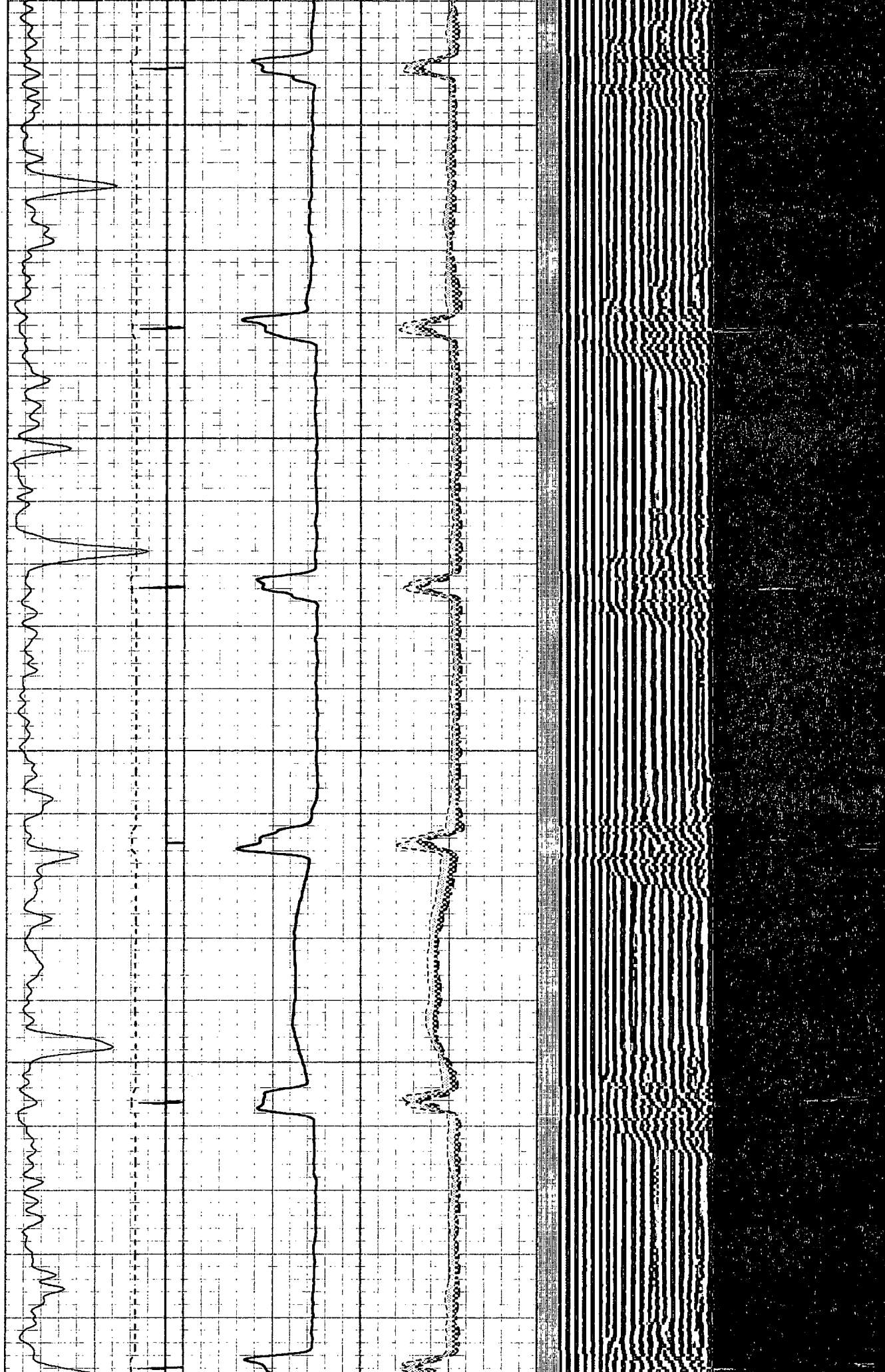


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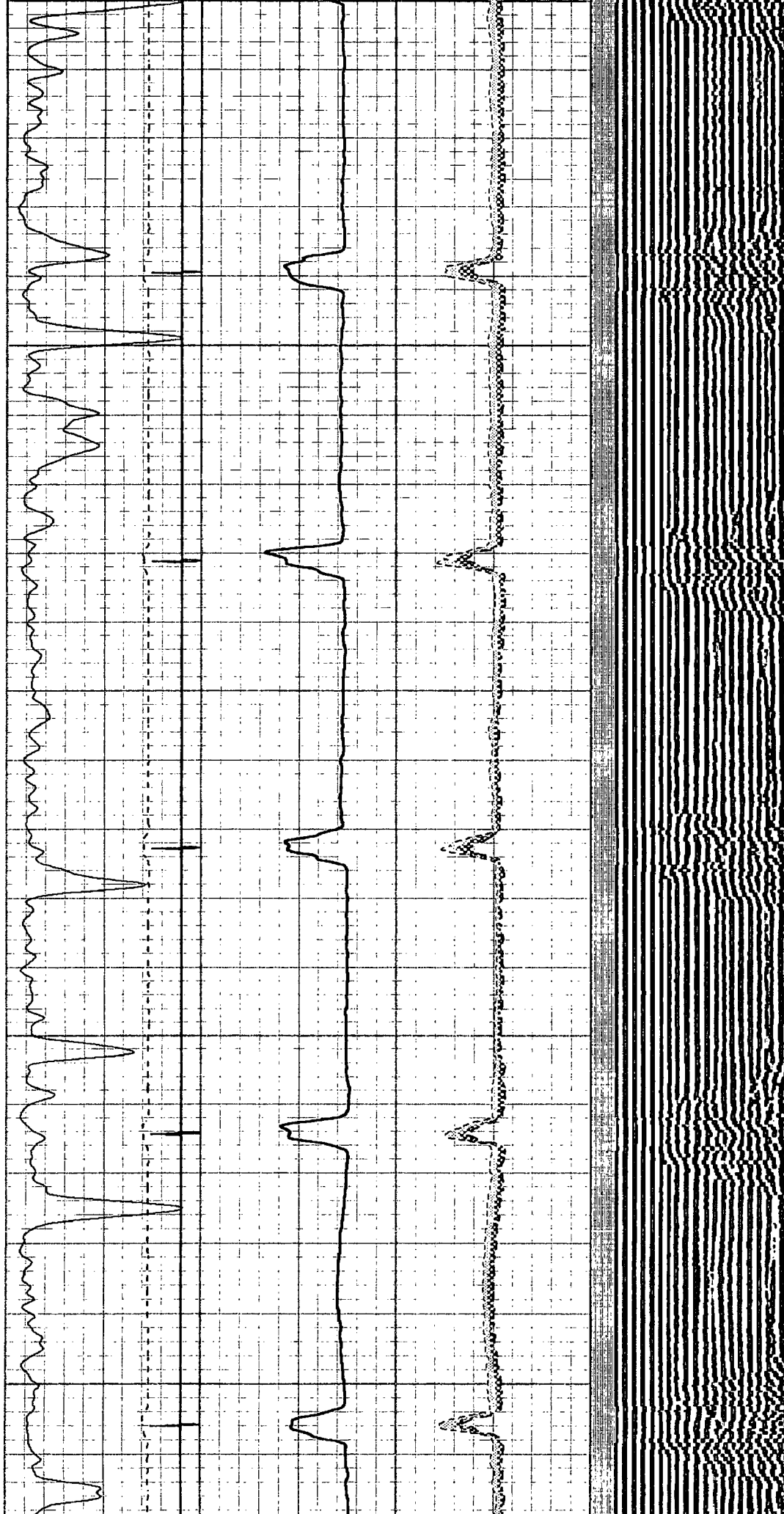
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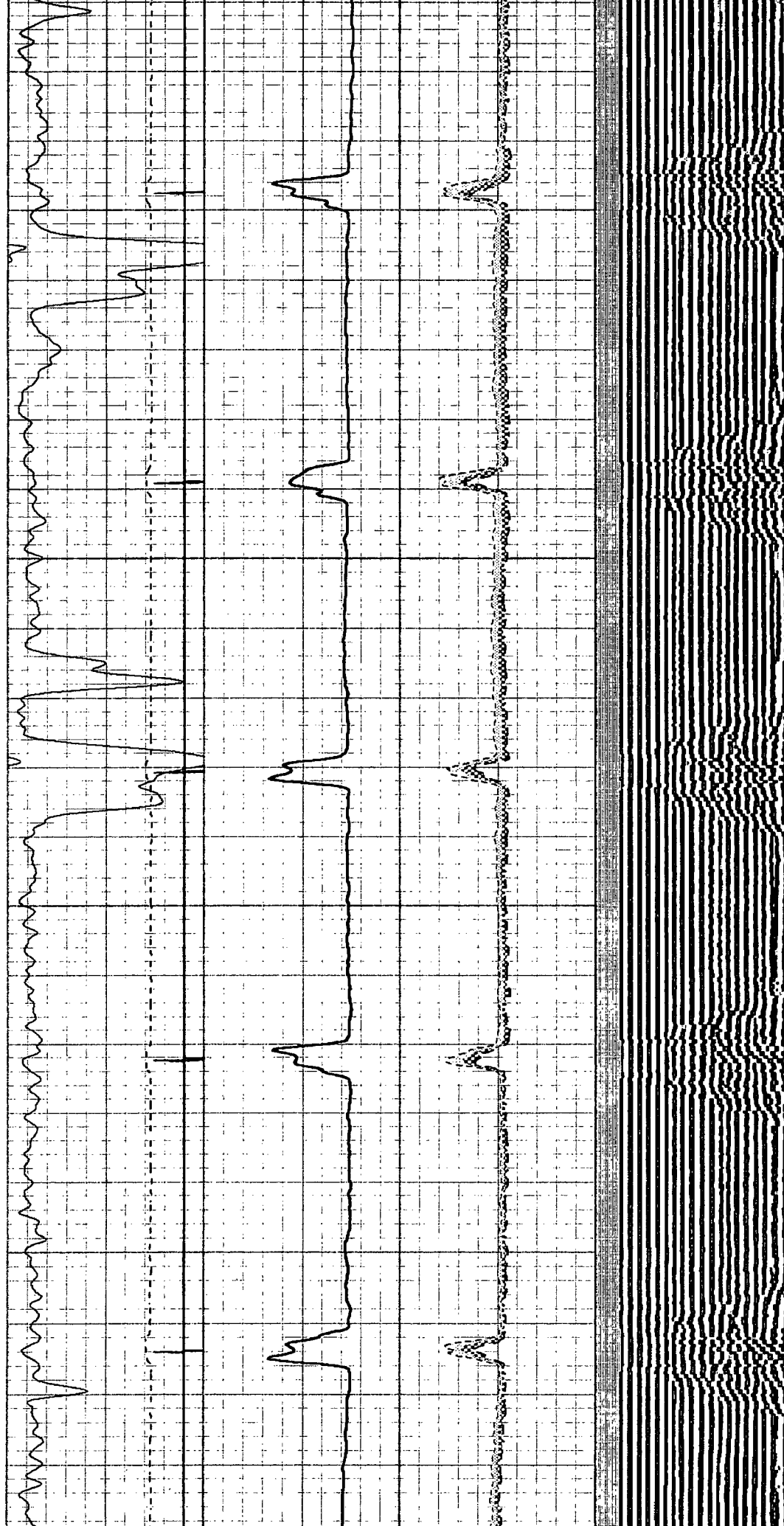


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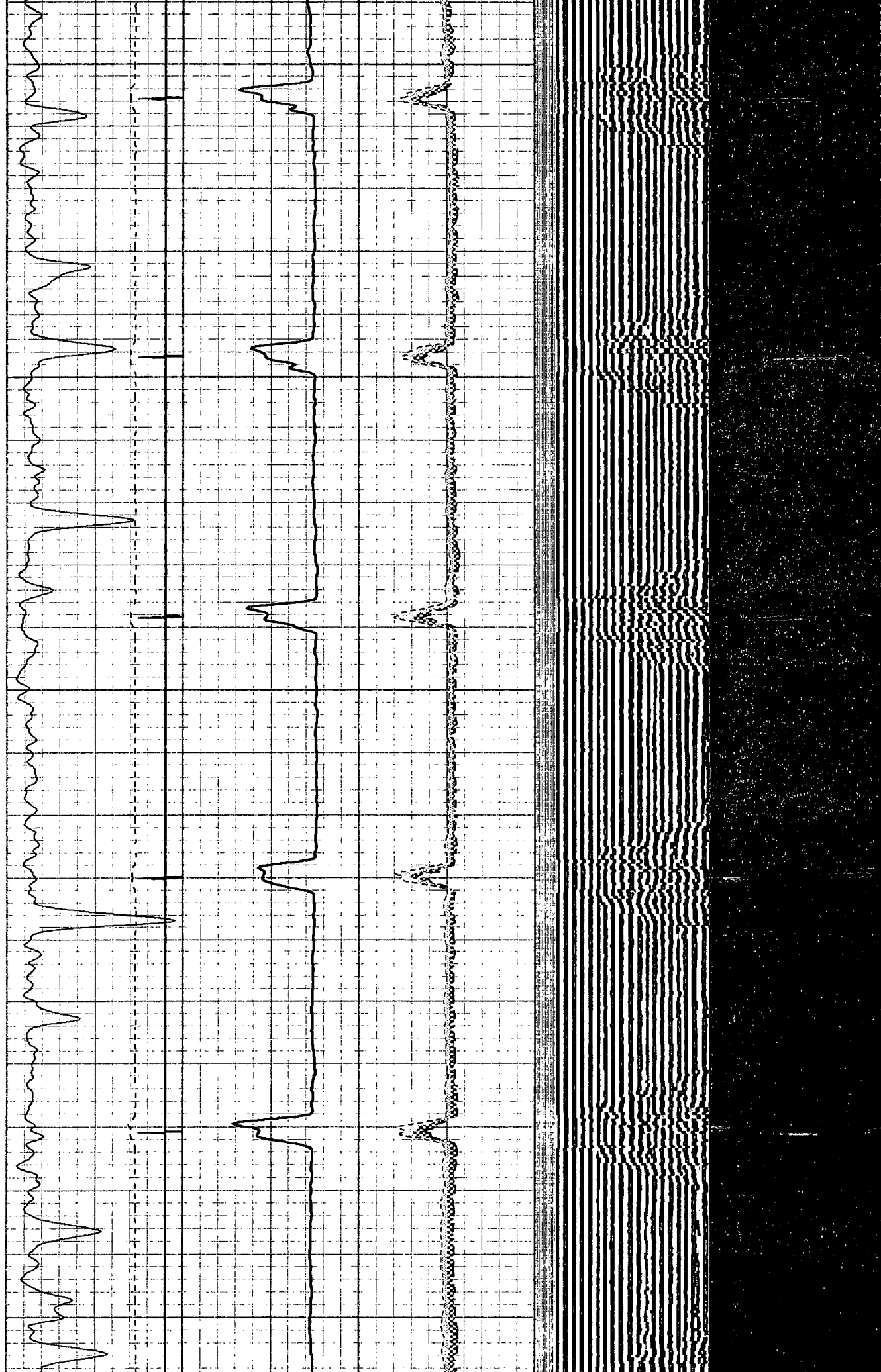
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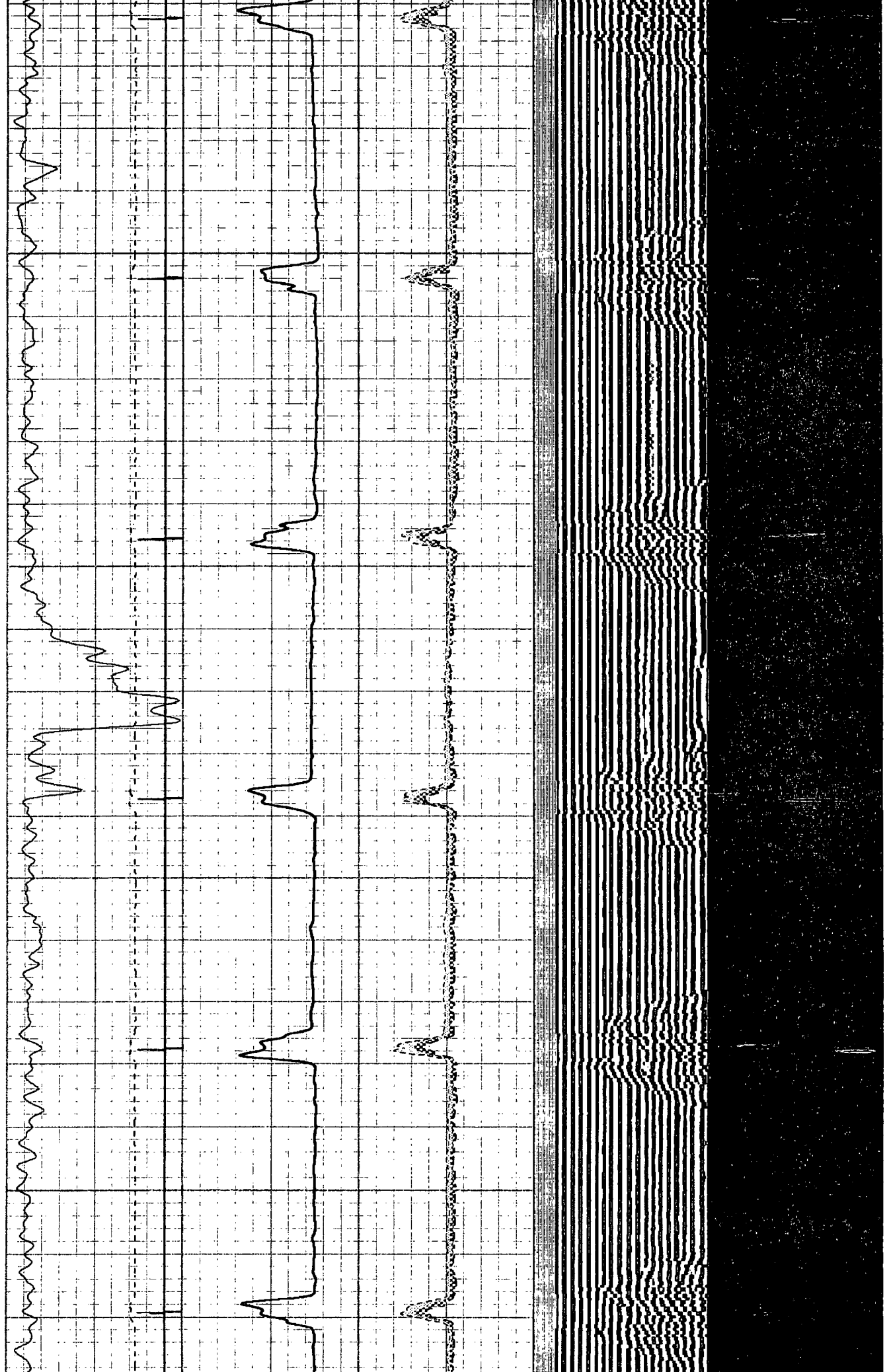


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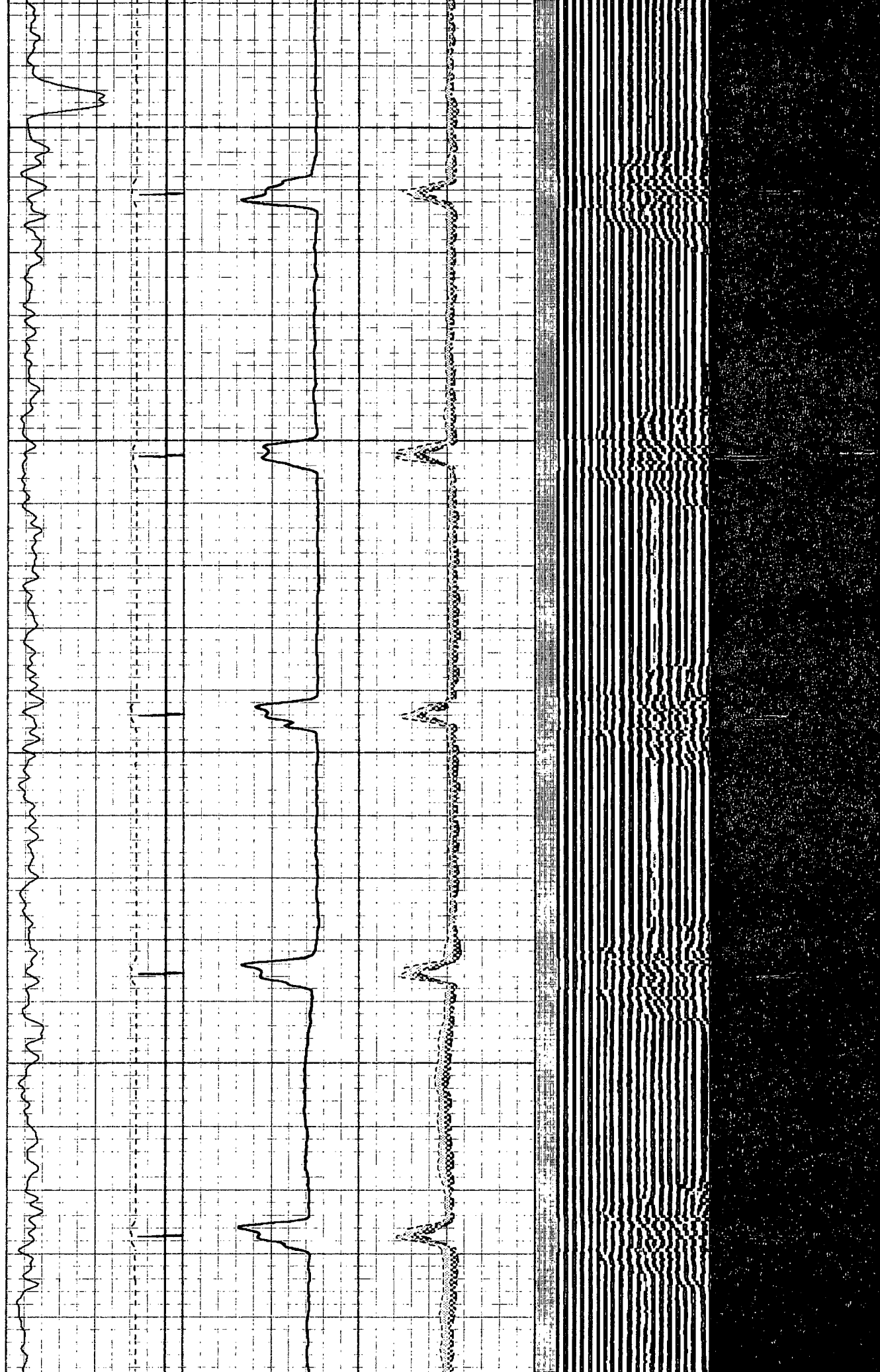


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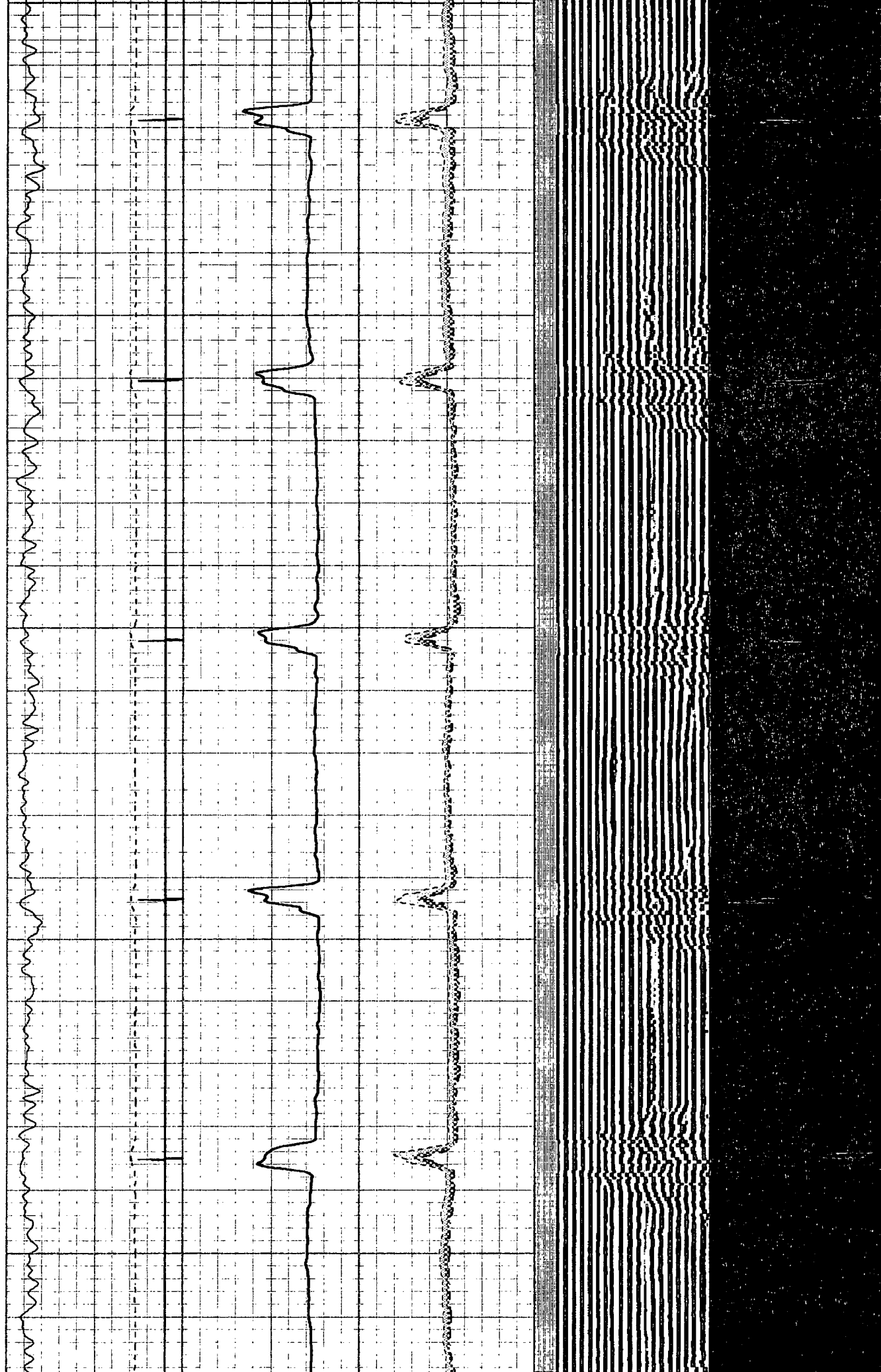
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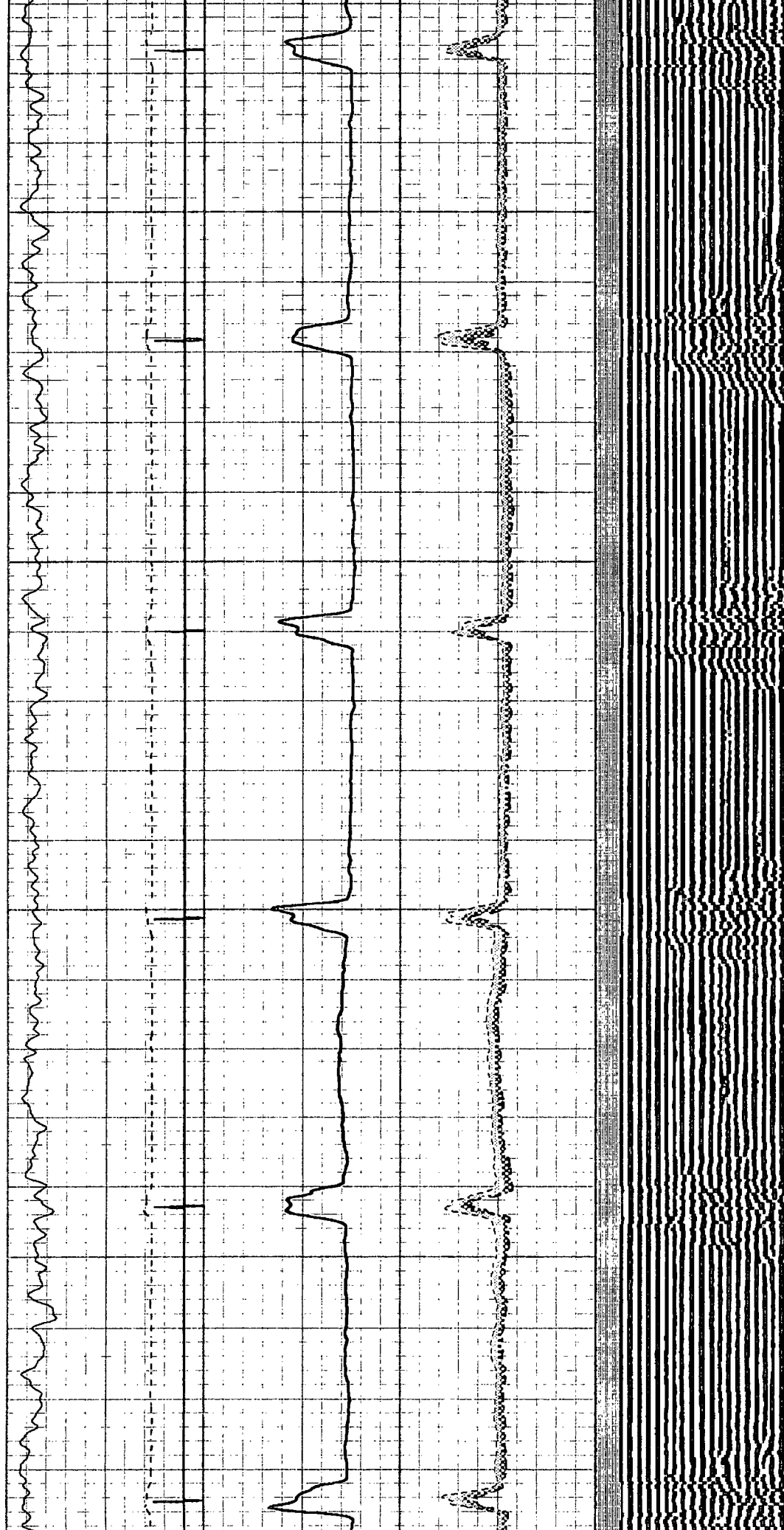


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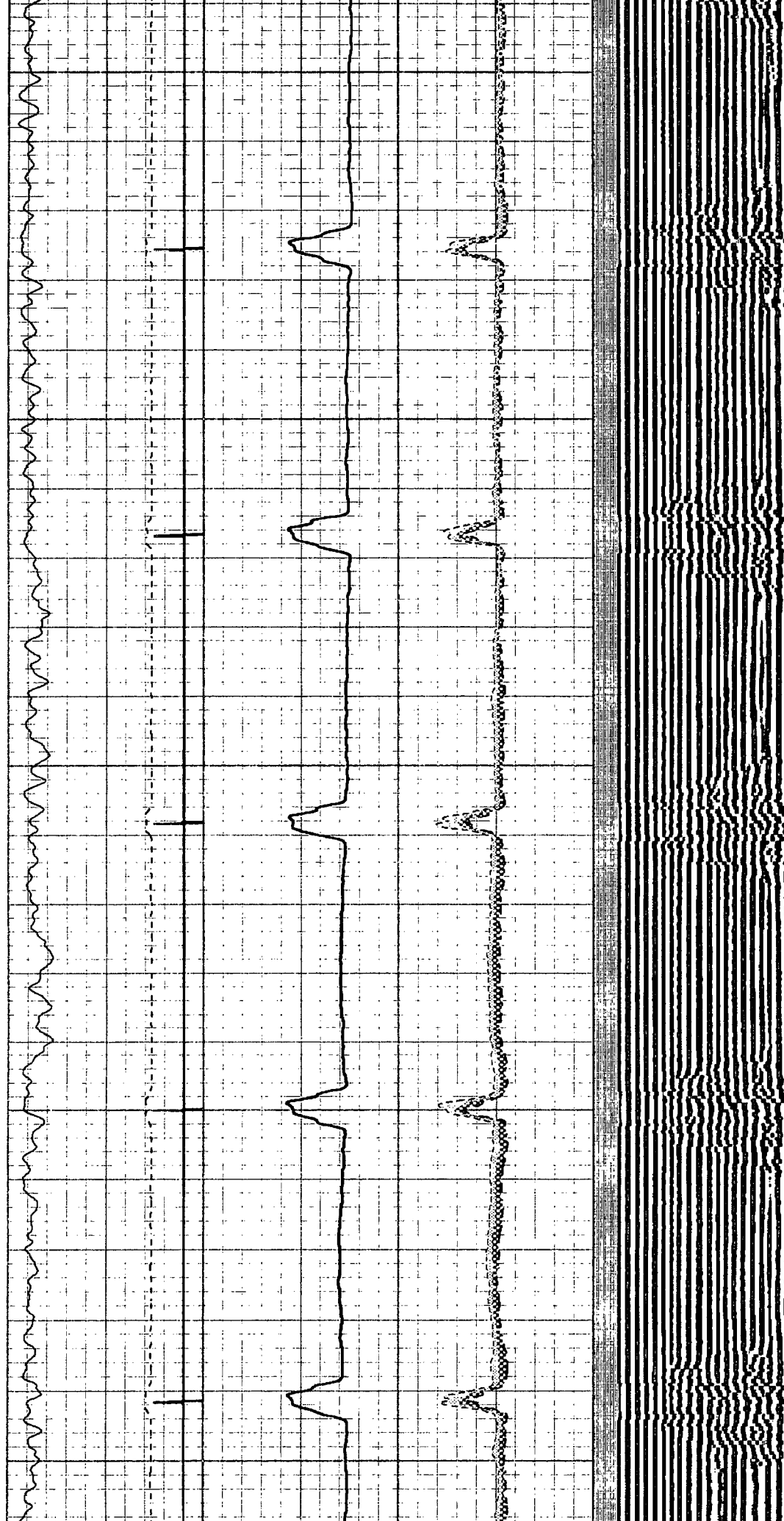
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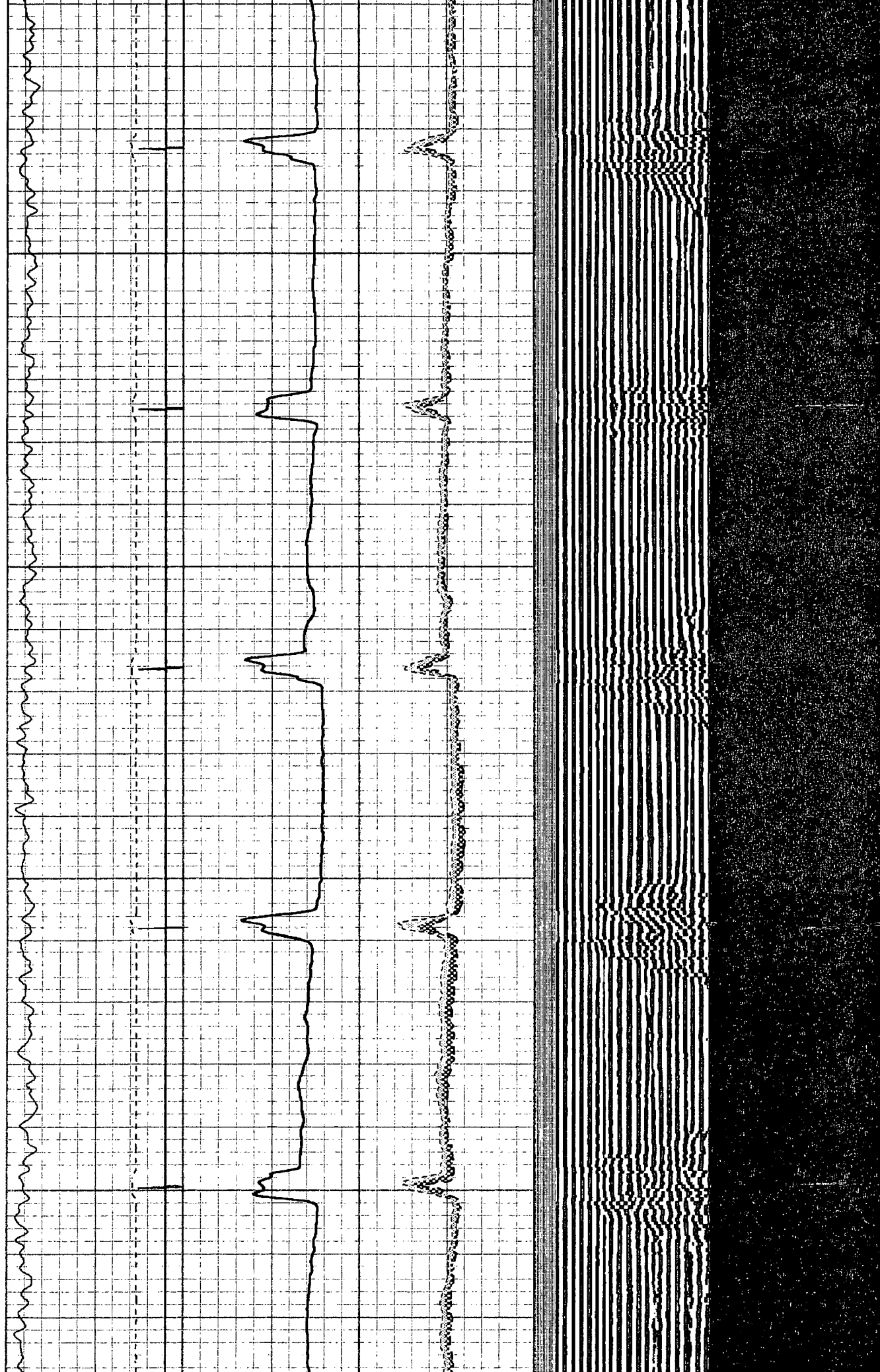


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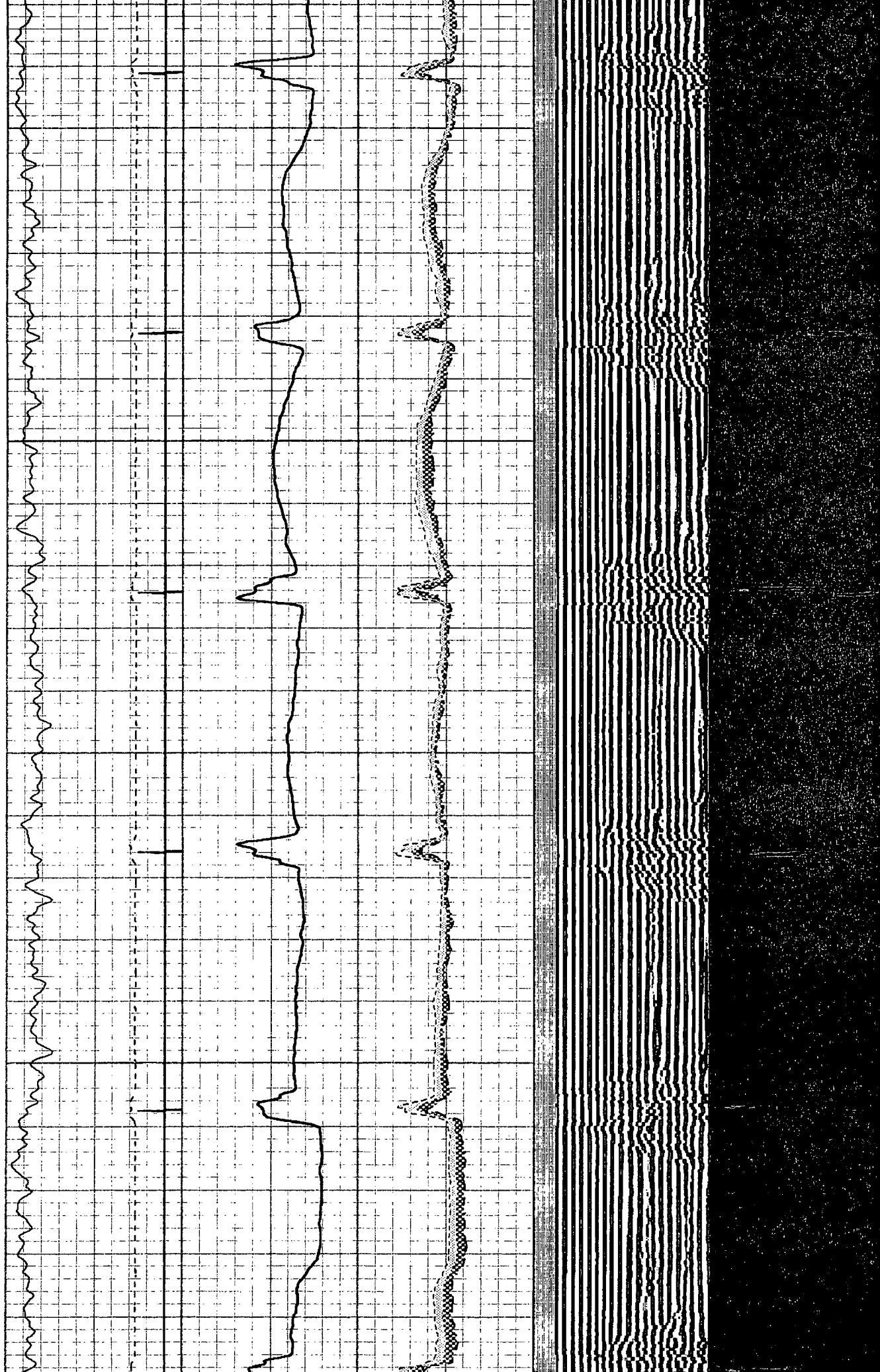


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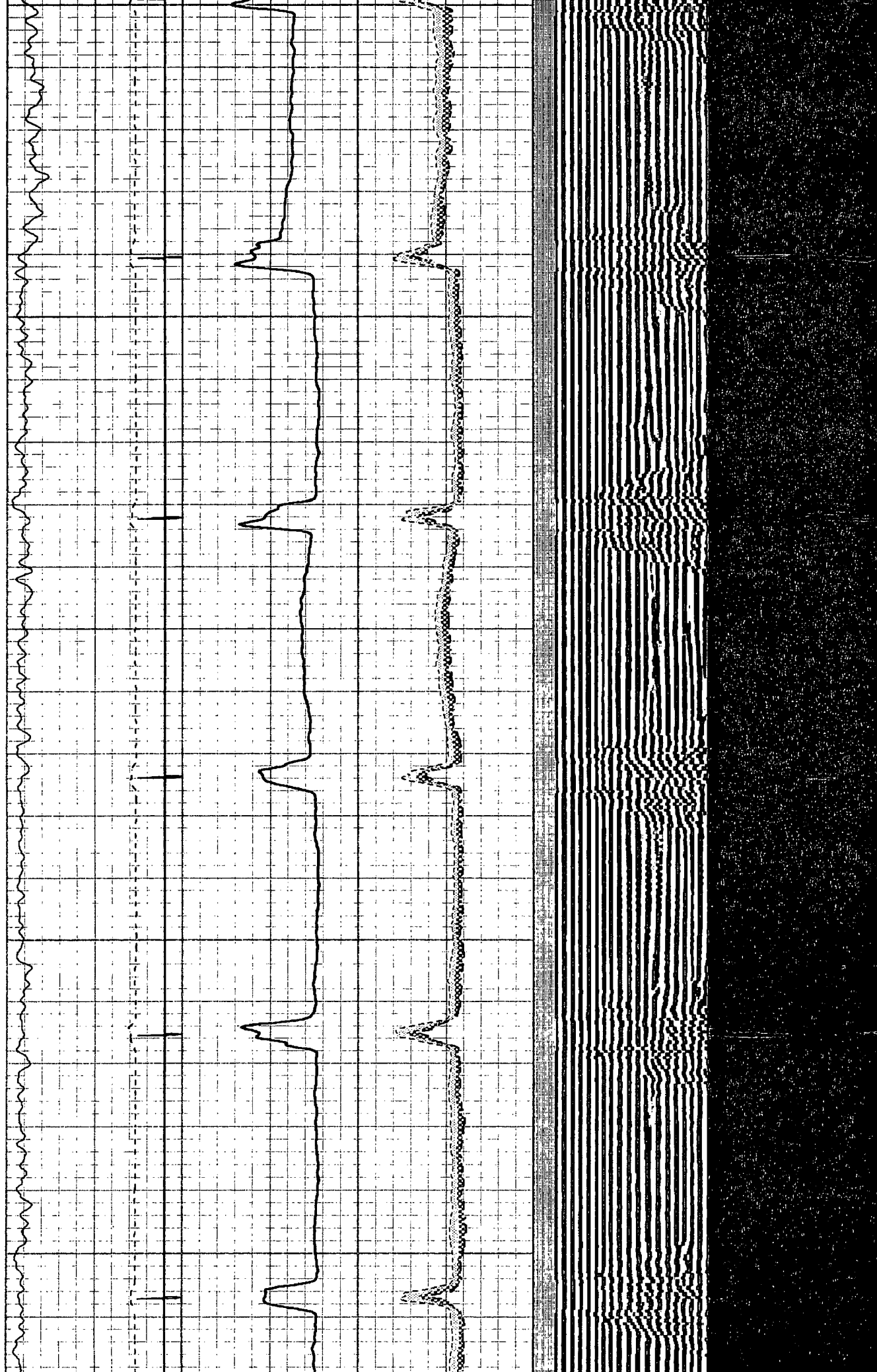
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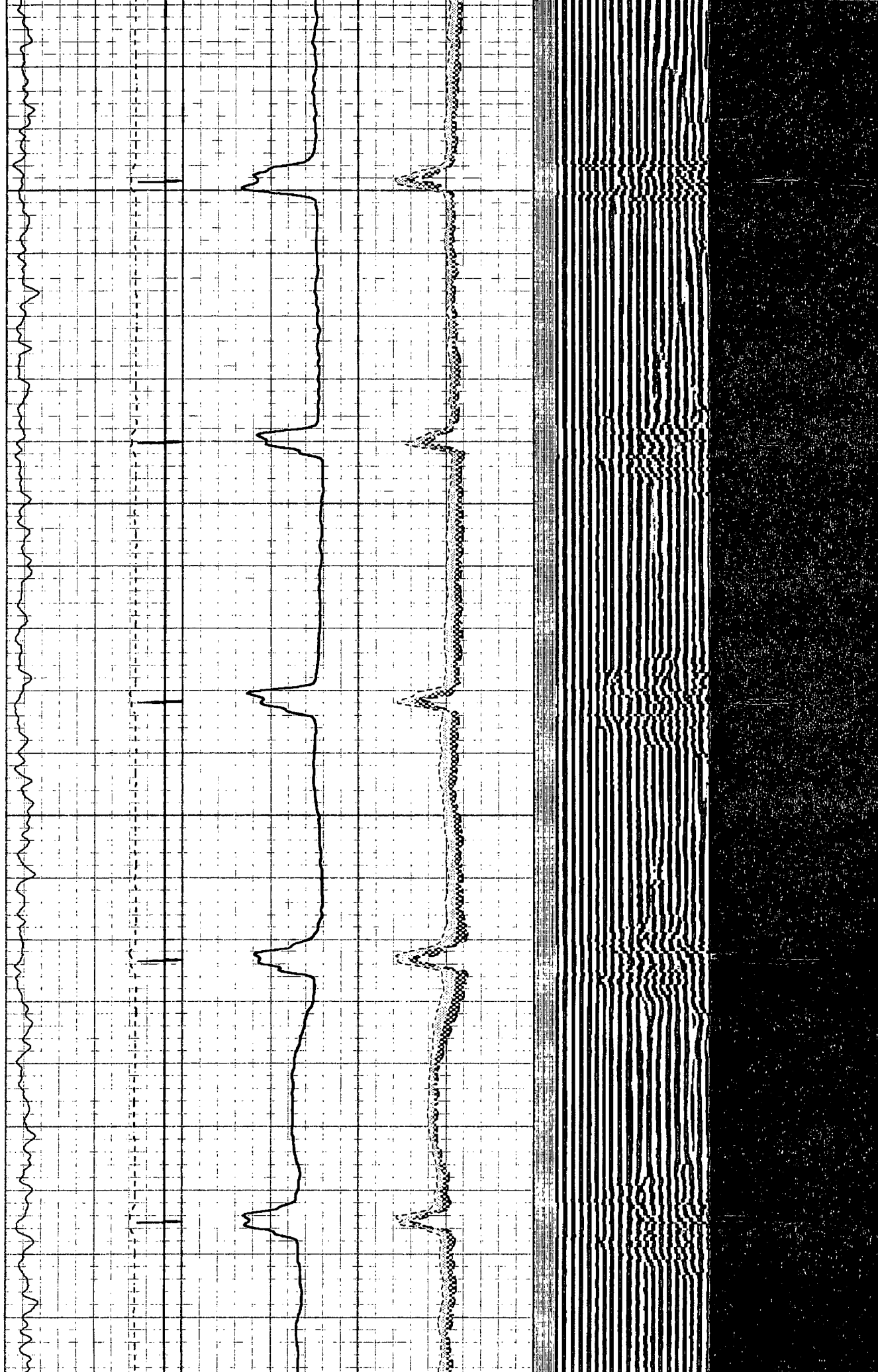


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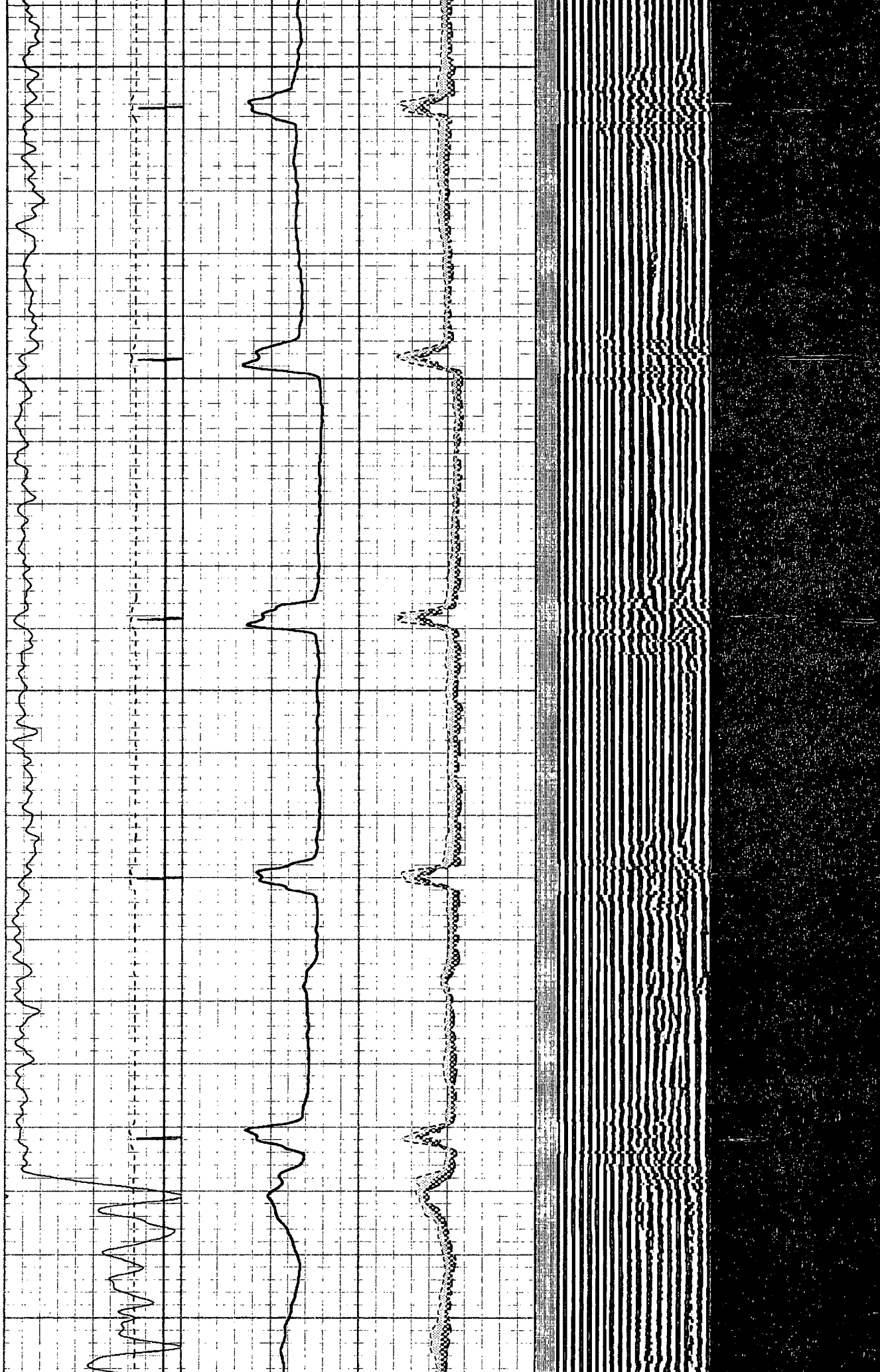
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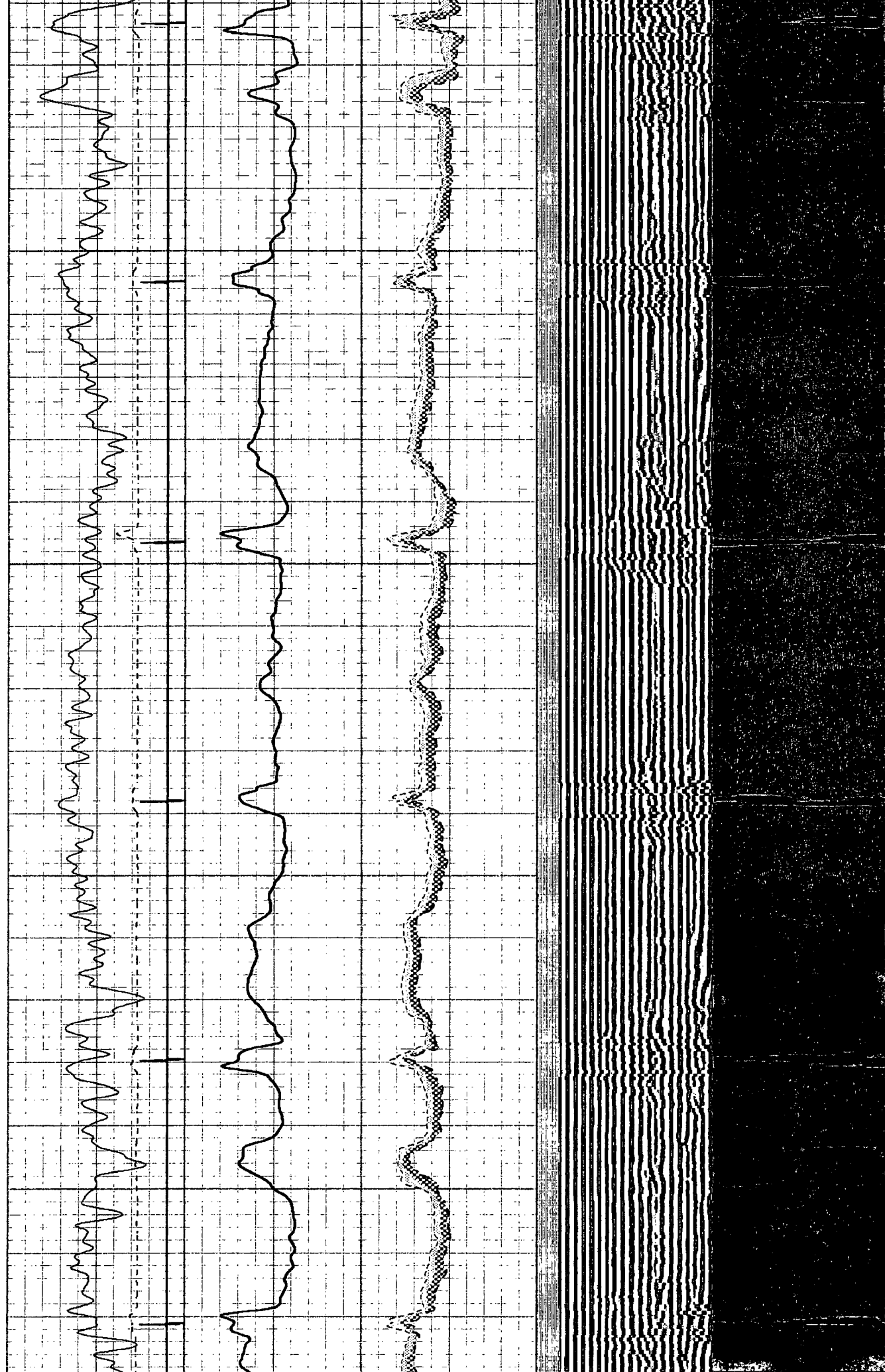


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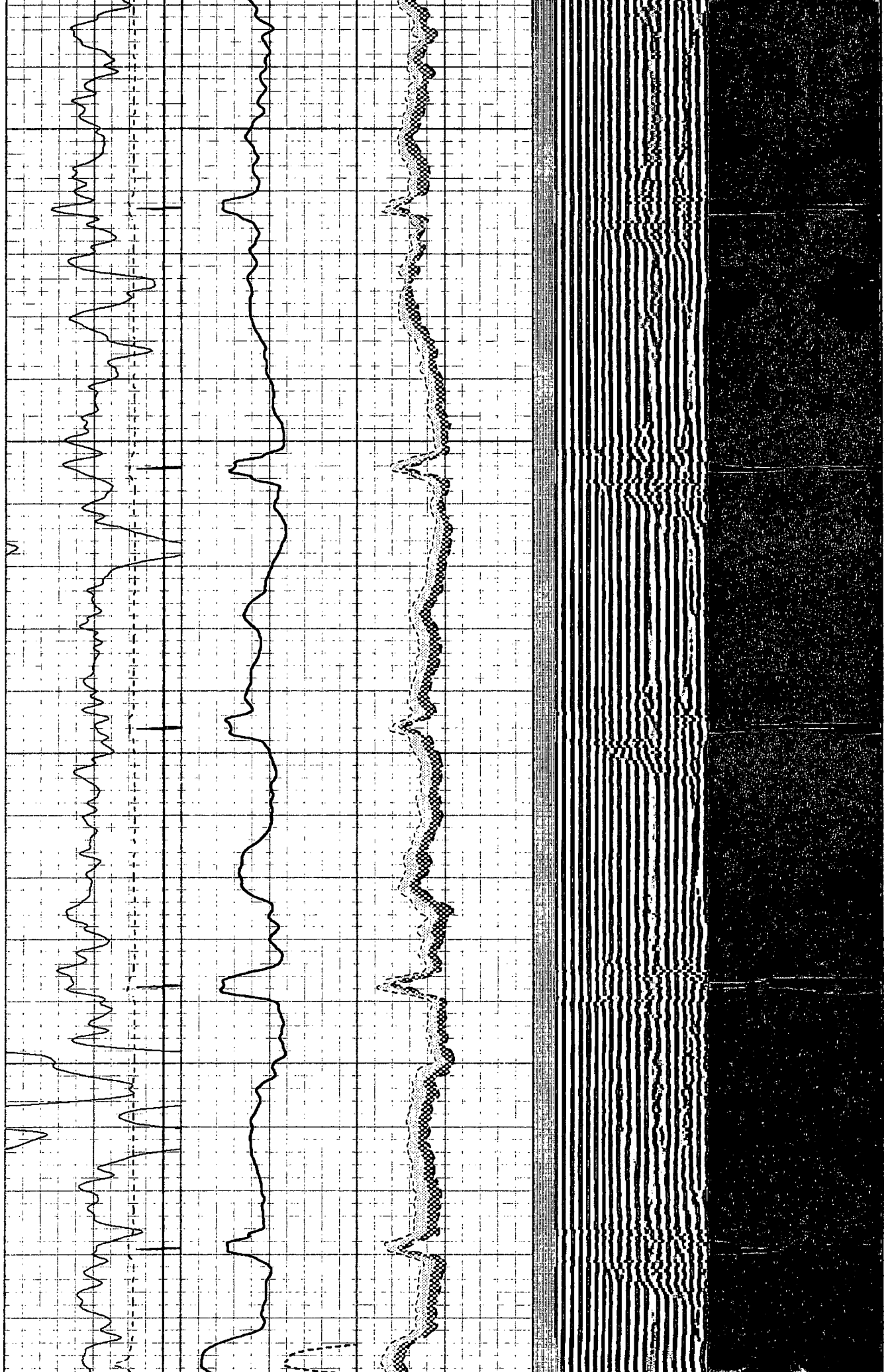


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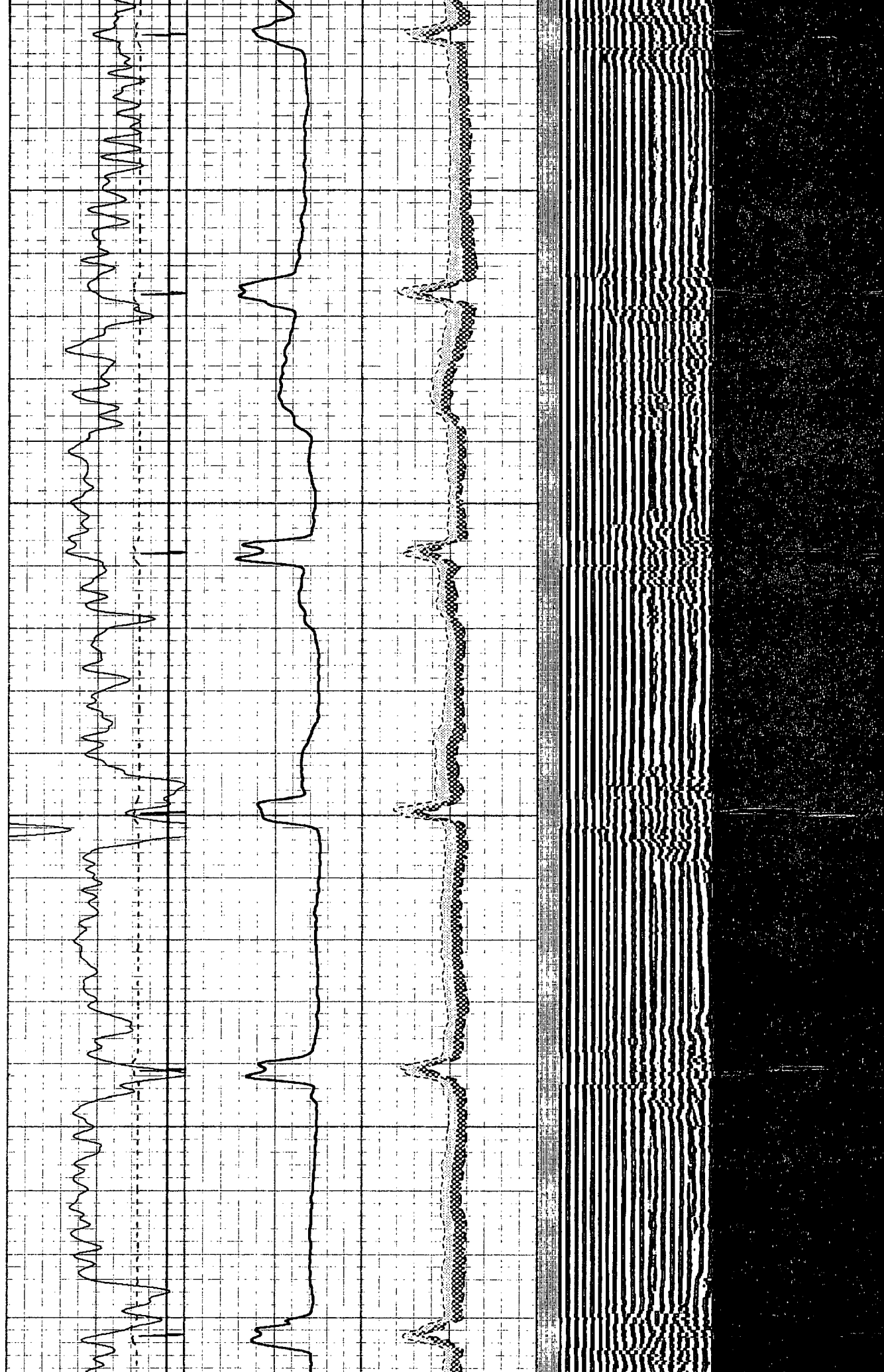


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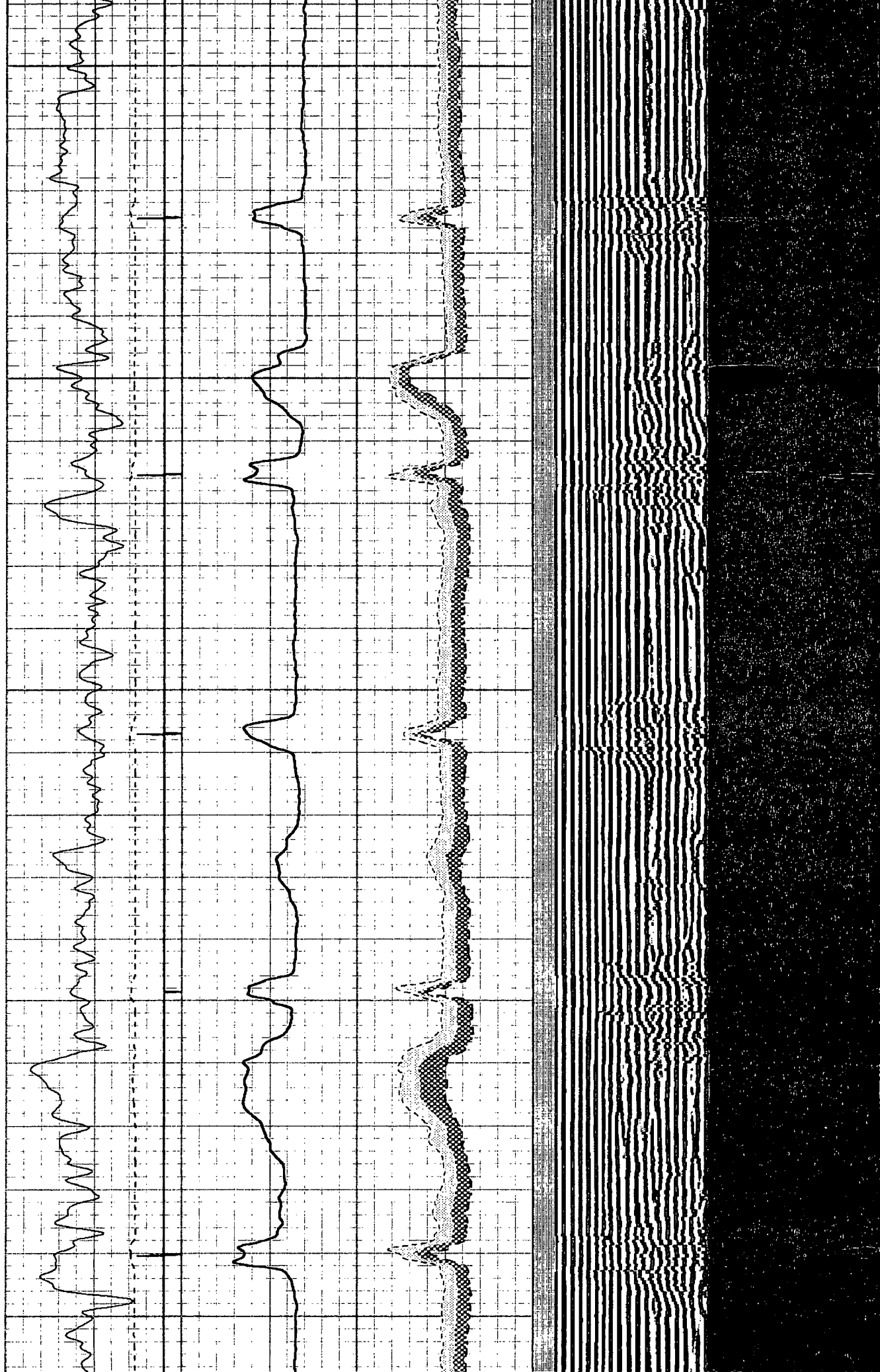
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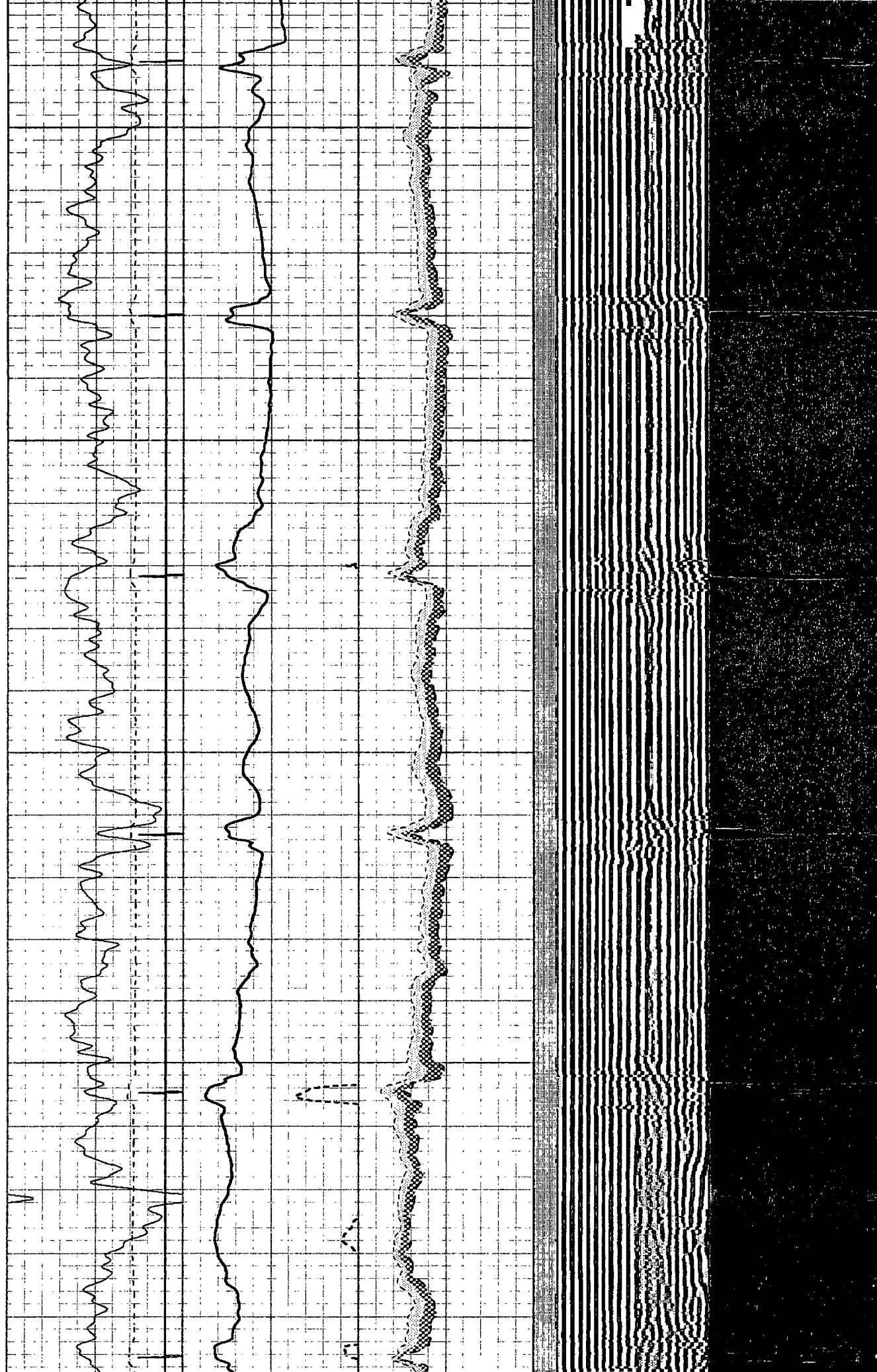


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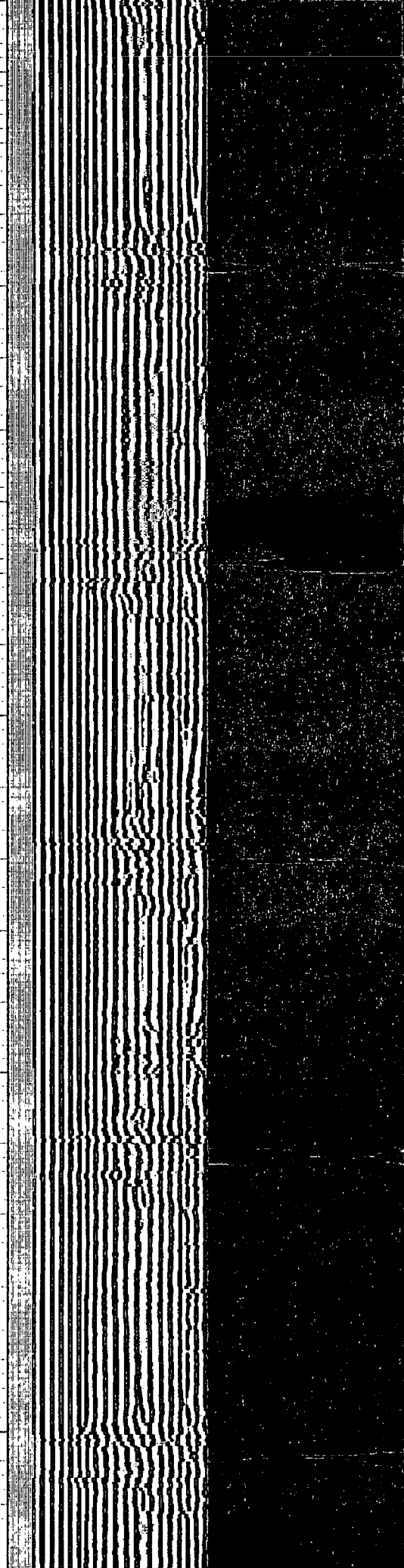
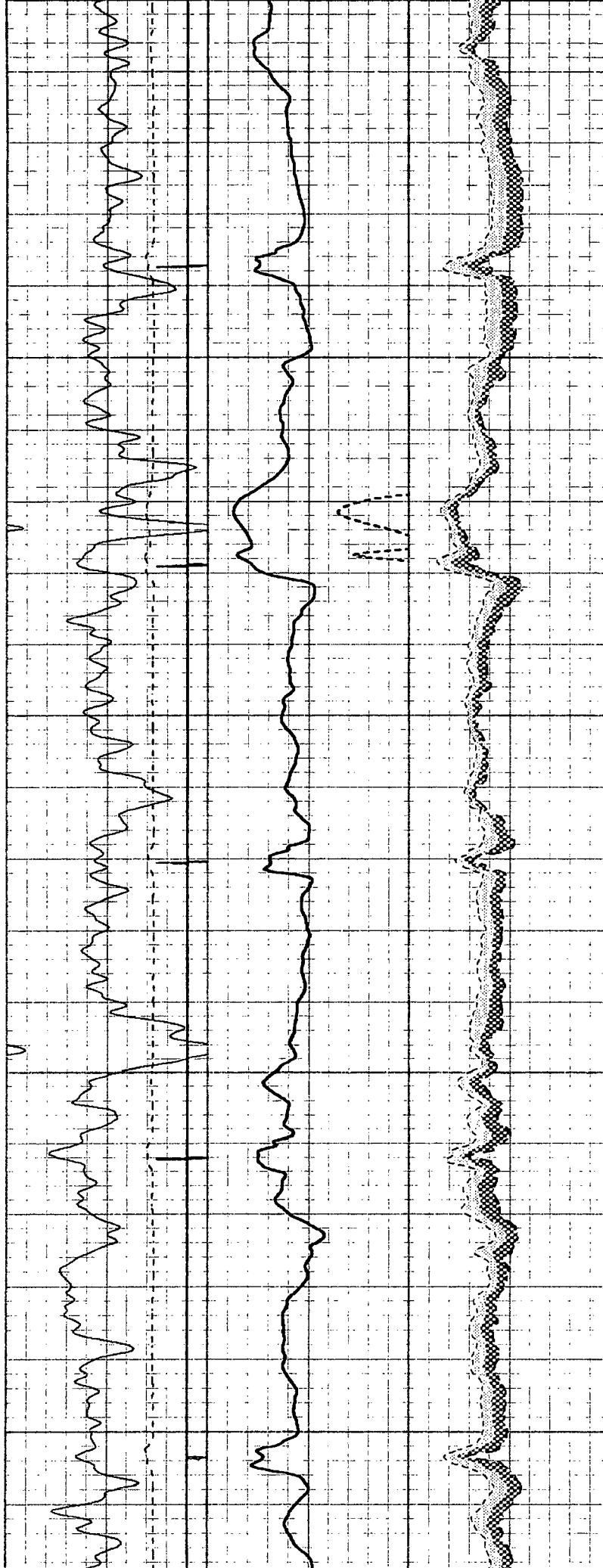
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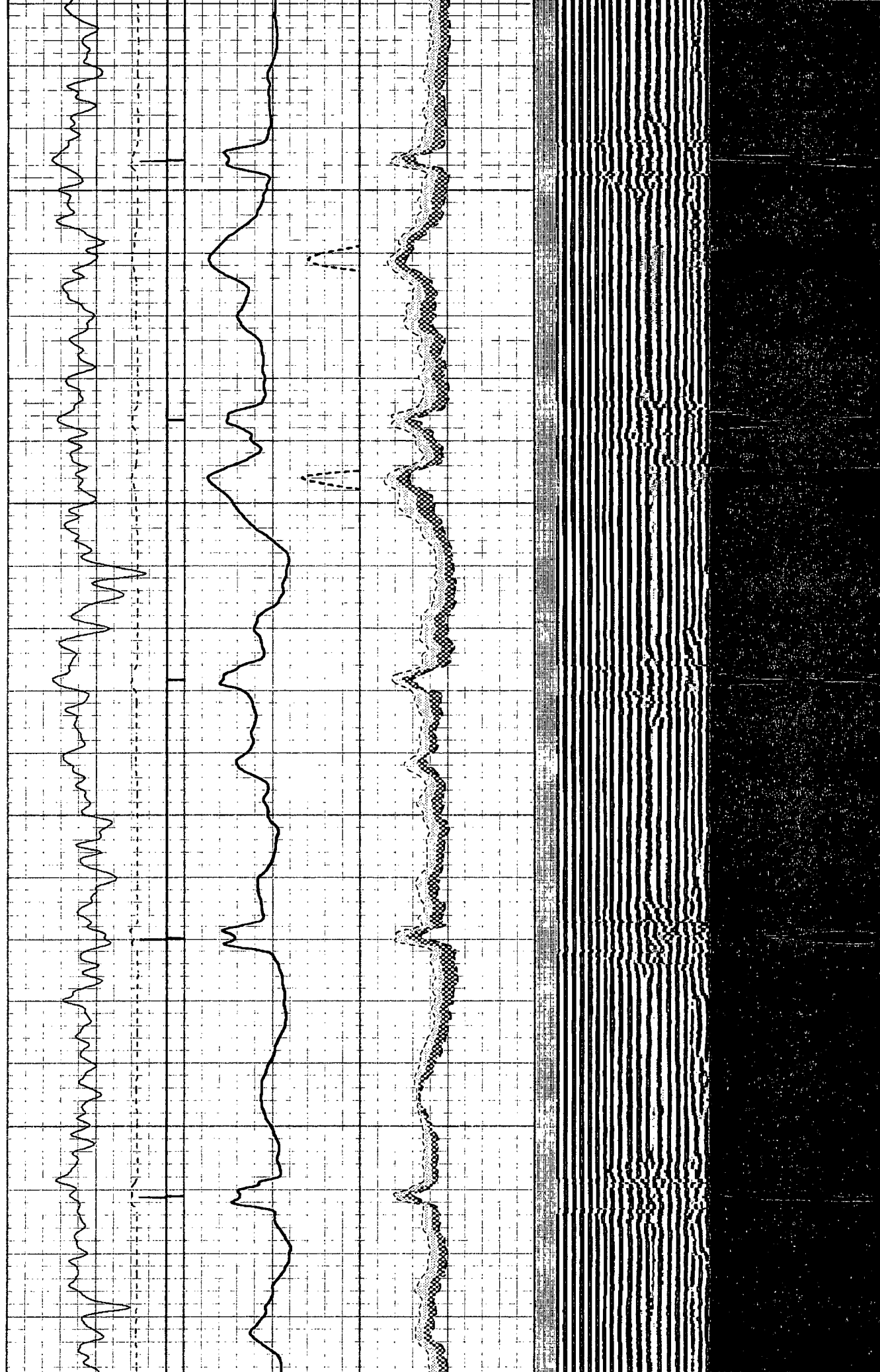


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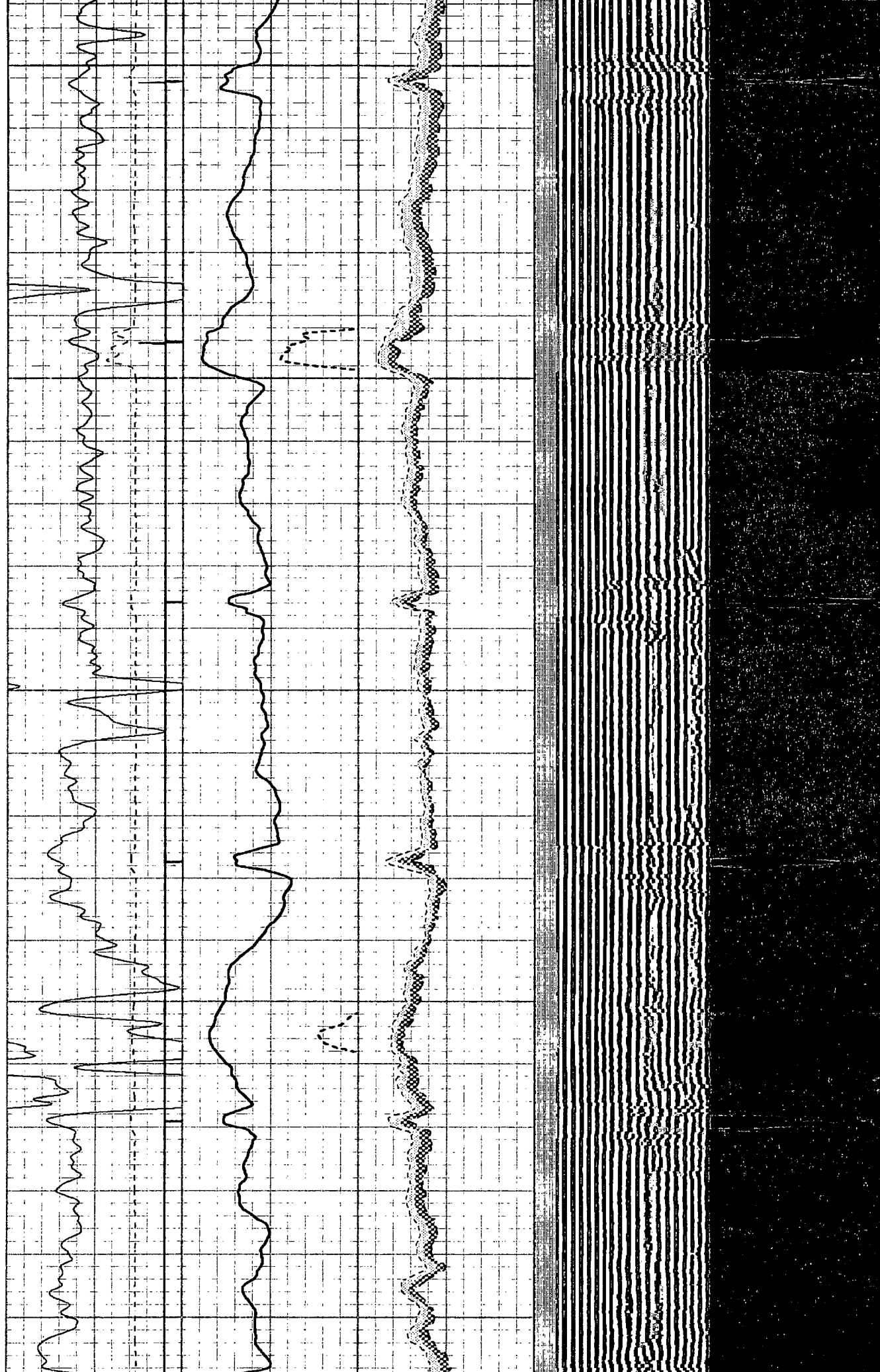
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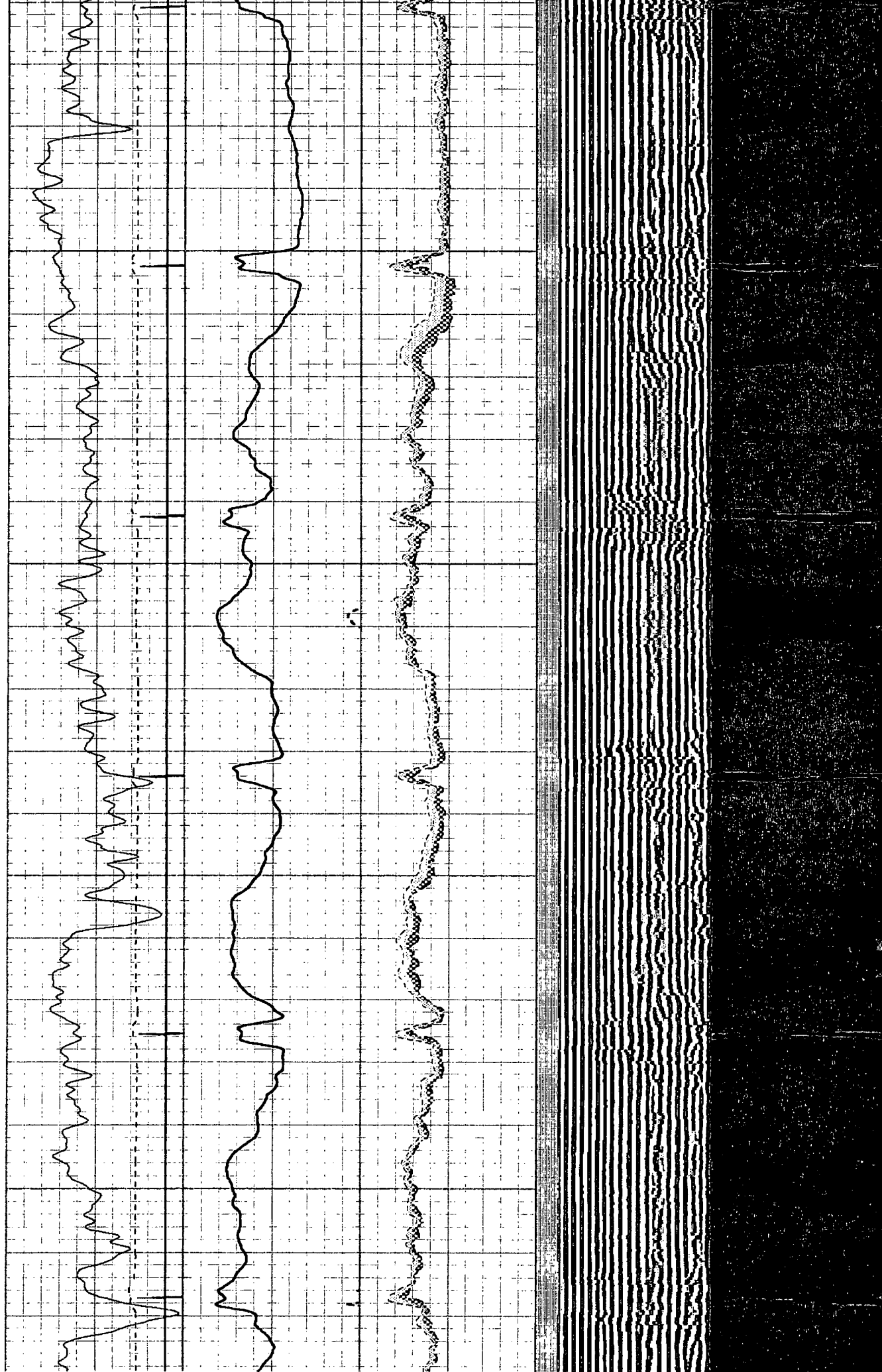


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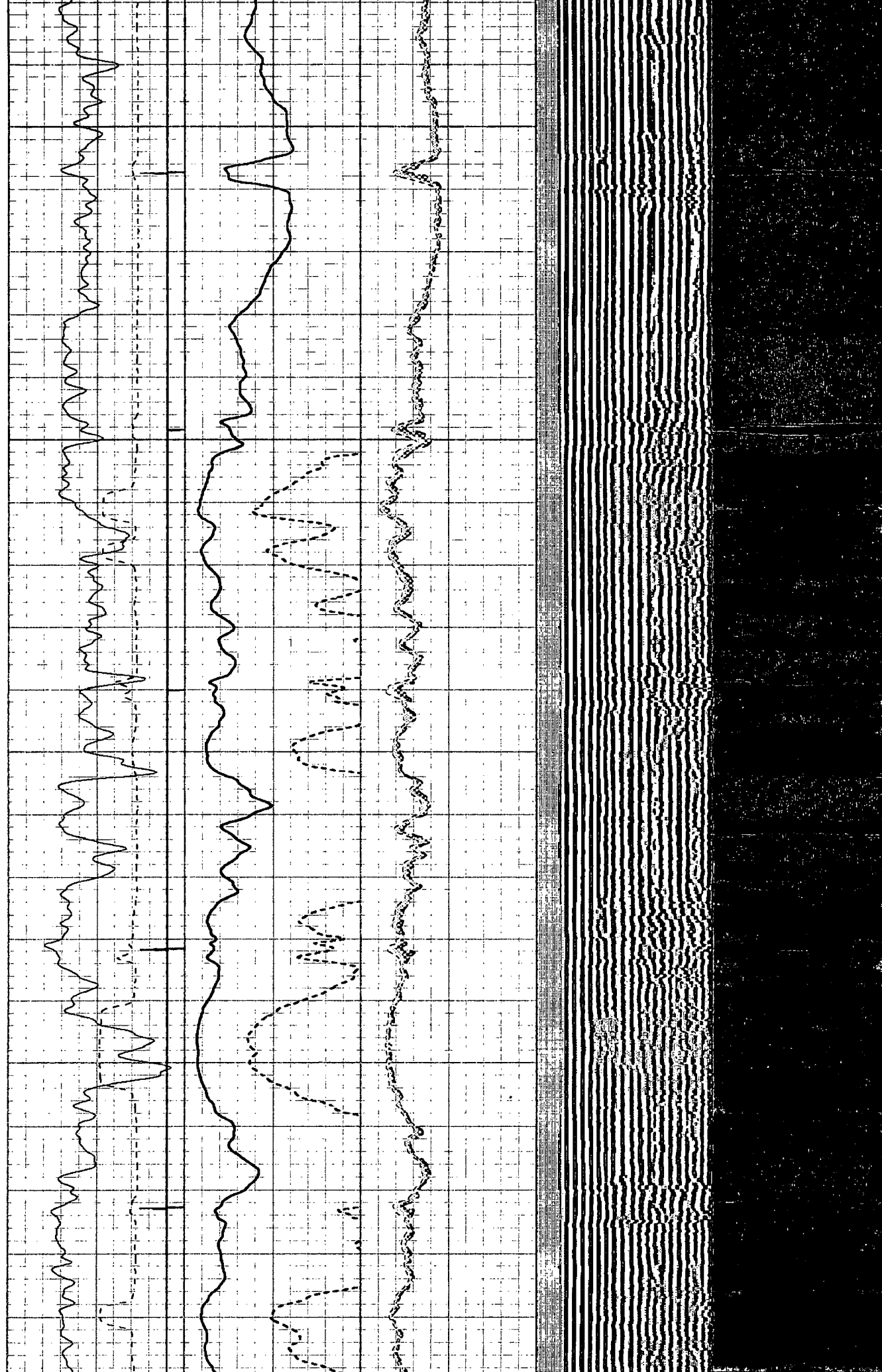


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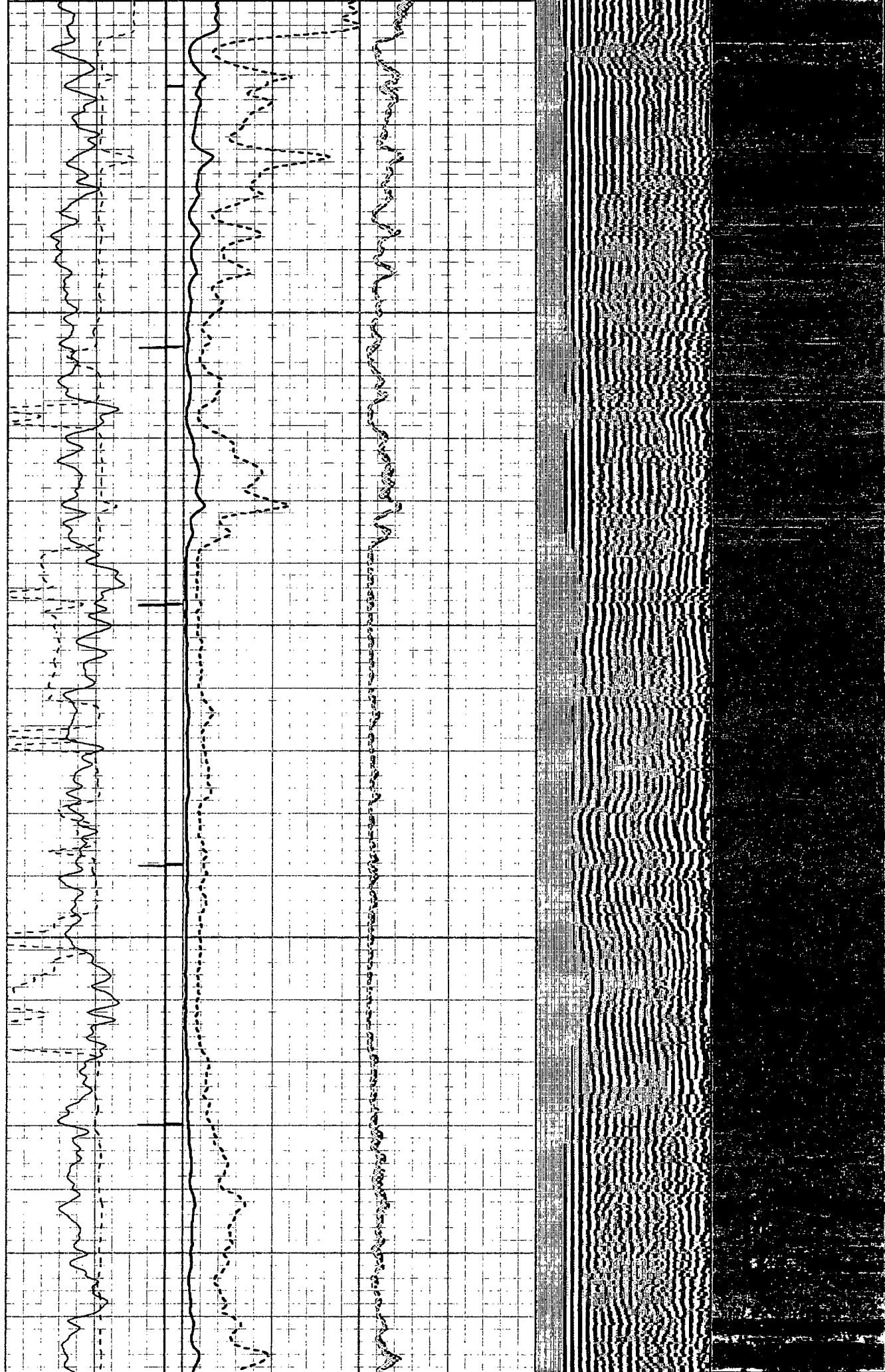
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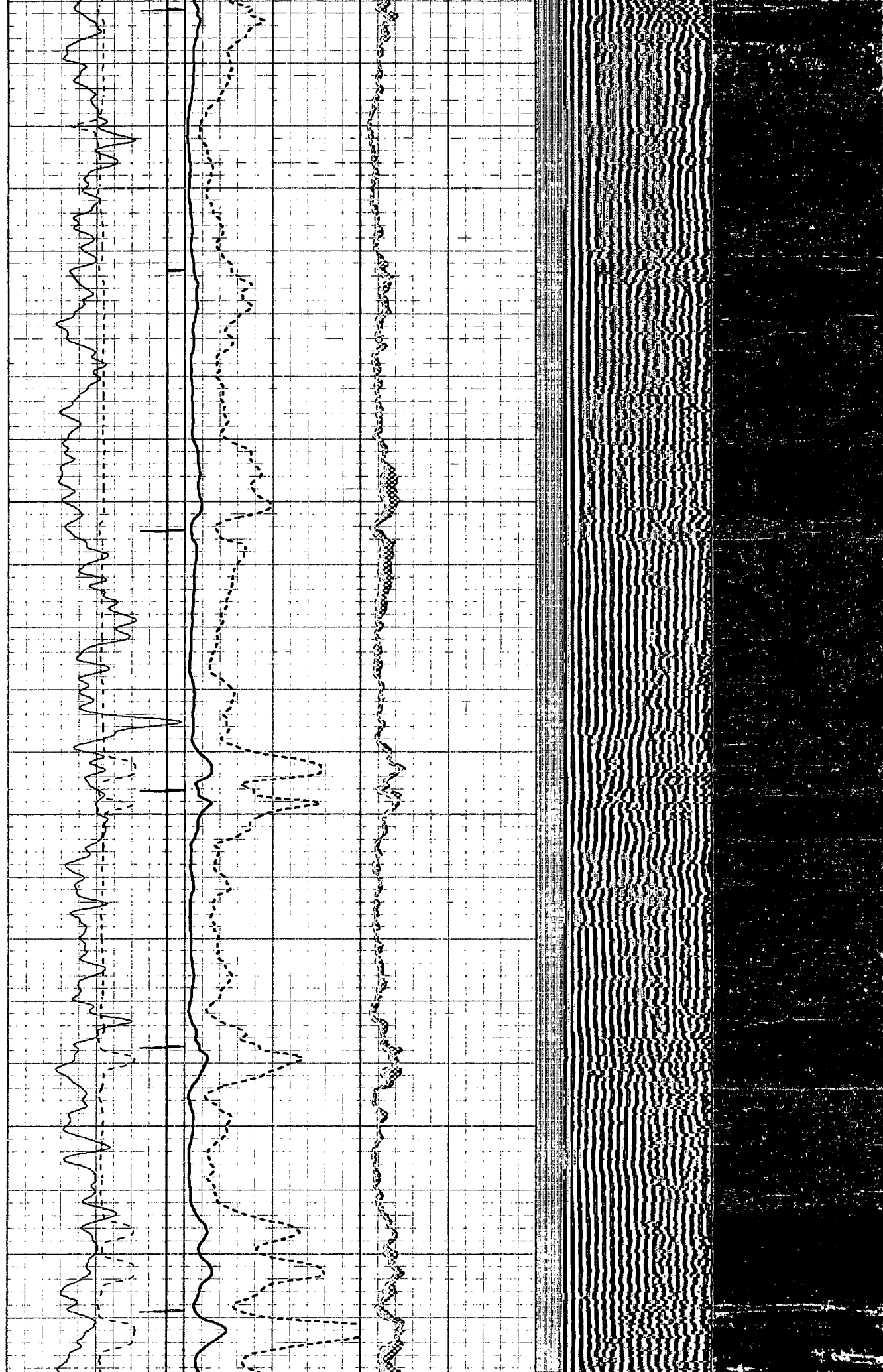


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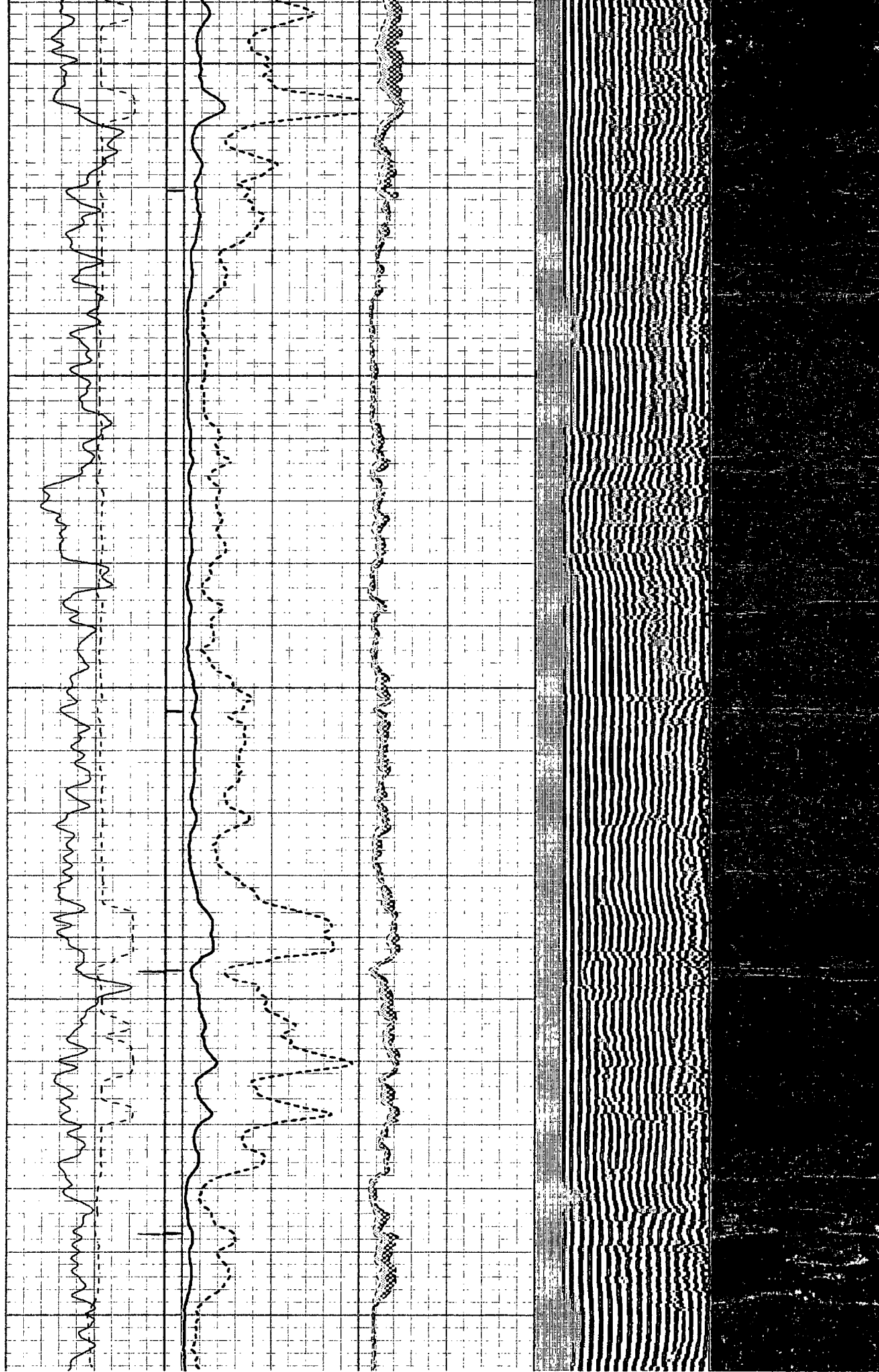
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8150

8200

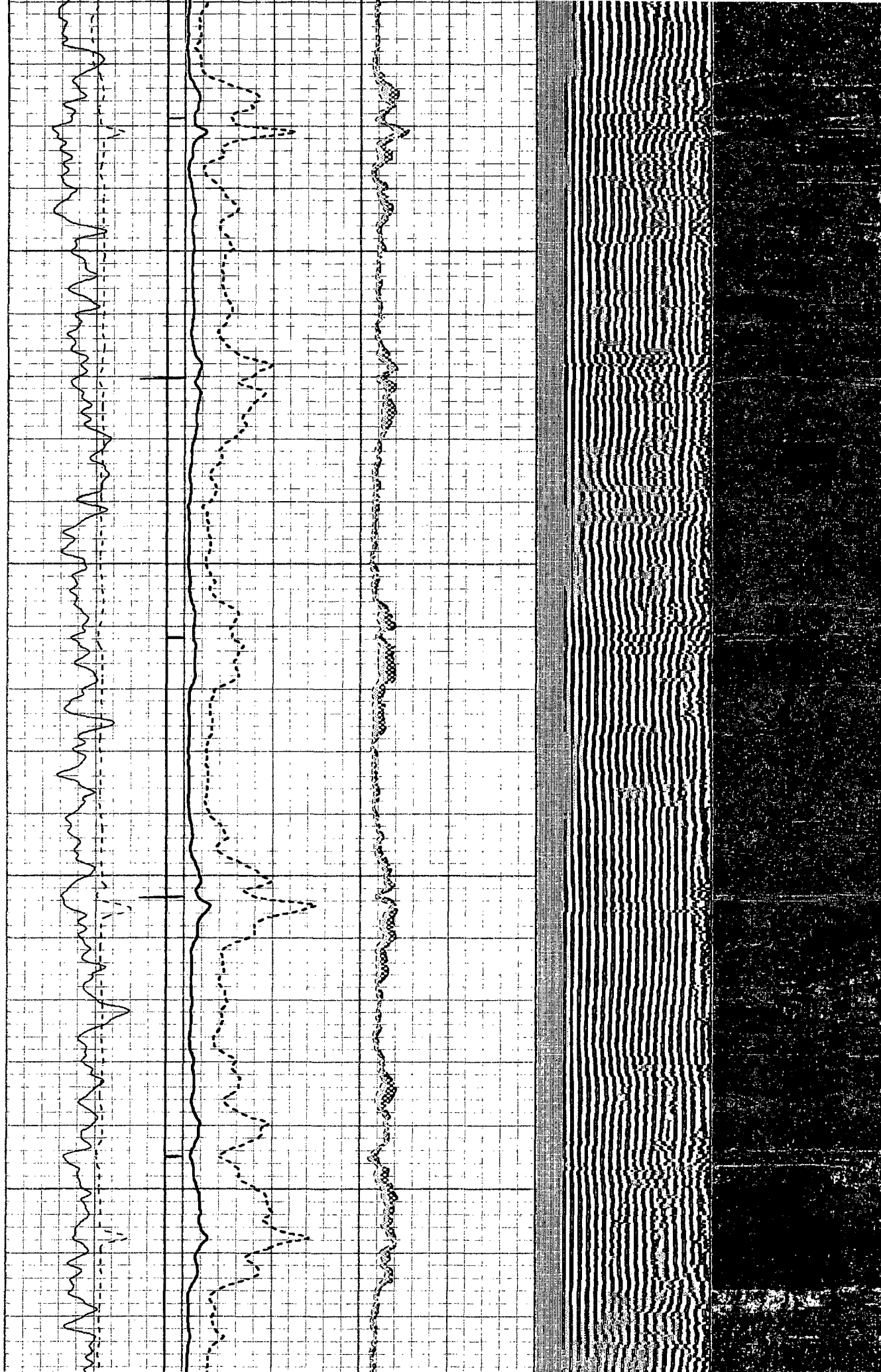


8250

8300

8350

8400

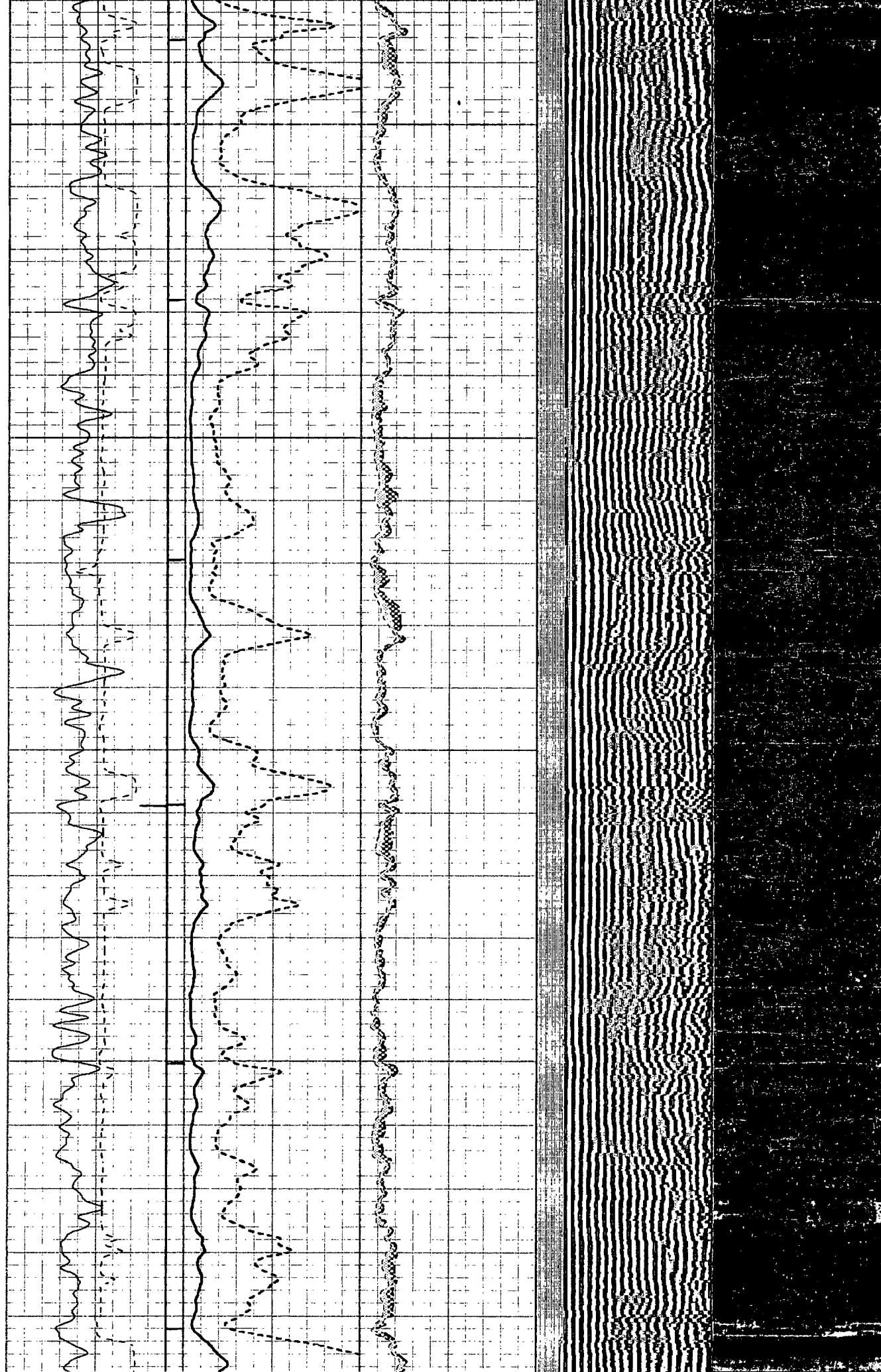


8450

8500

8550

8600



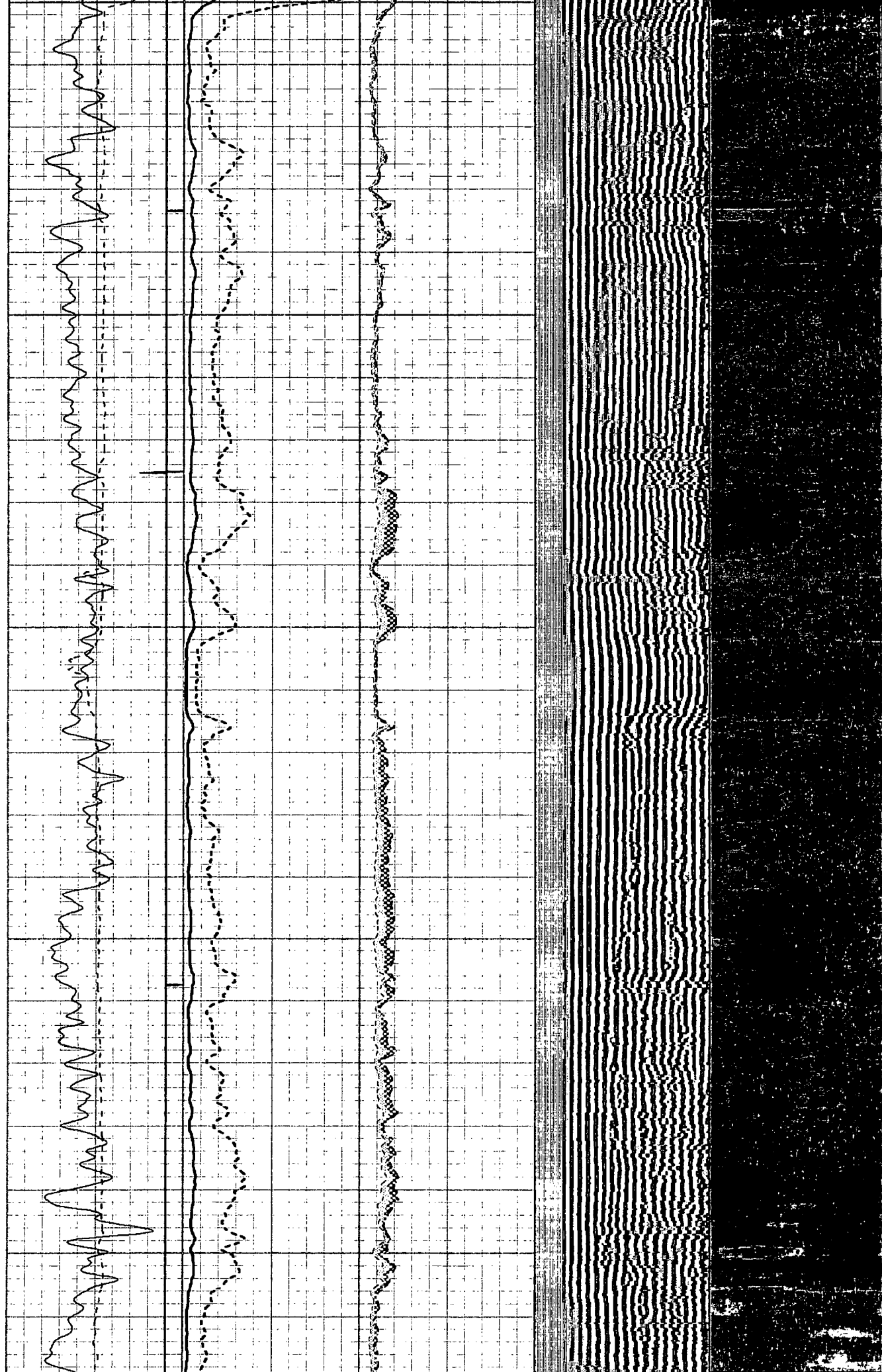
8650

8700

8750

8800

8850

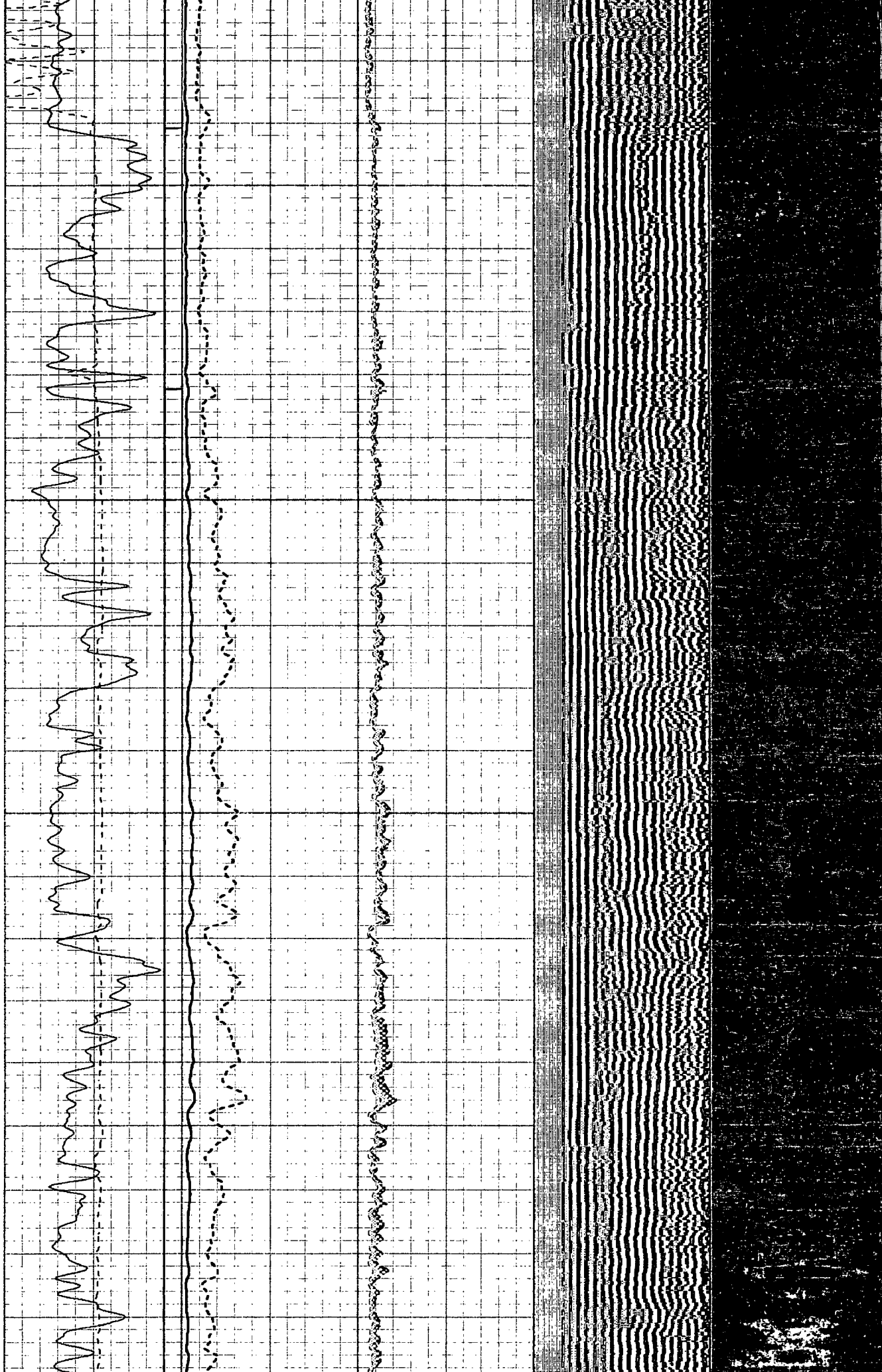


8900

8950

9000

9050



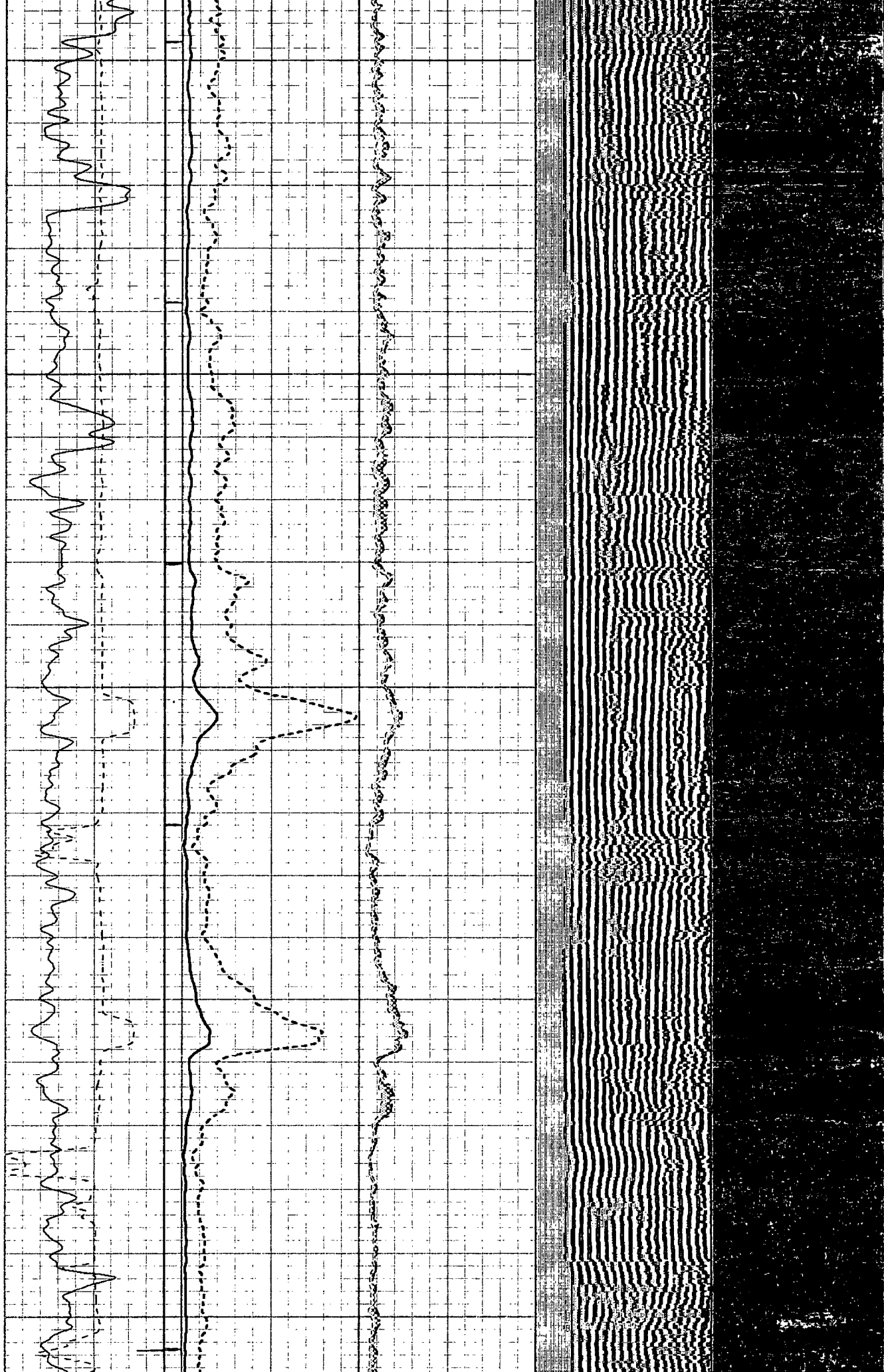
9100

9150

9200

9250

9300



9350

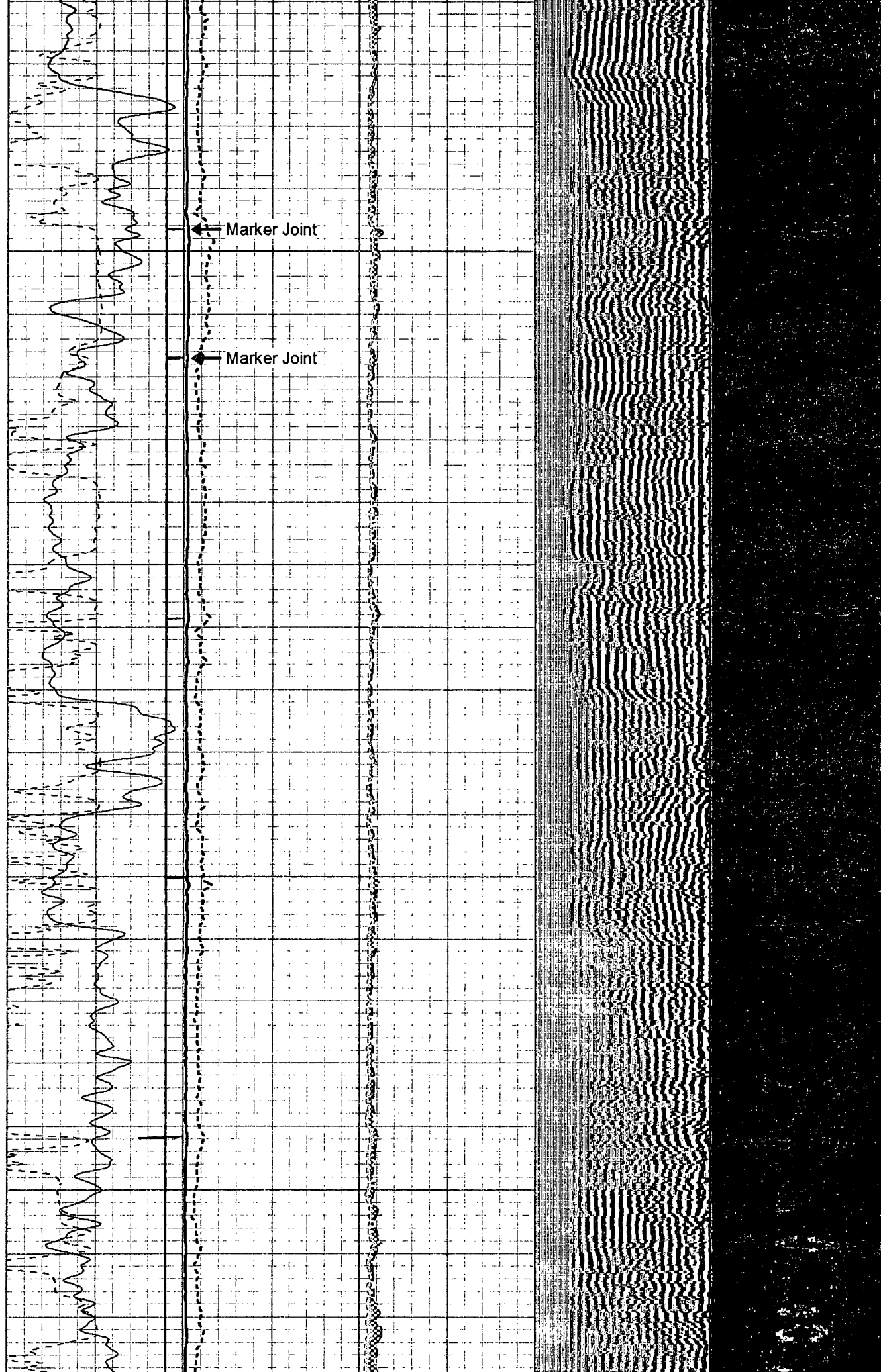
Marker Joint

9400

Marker Joint

9450

9500

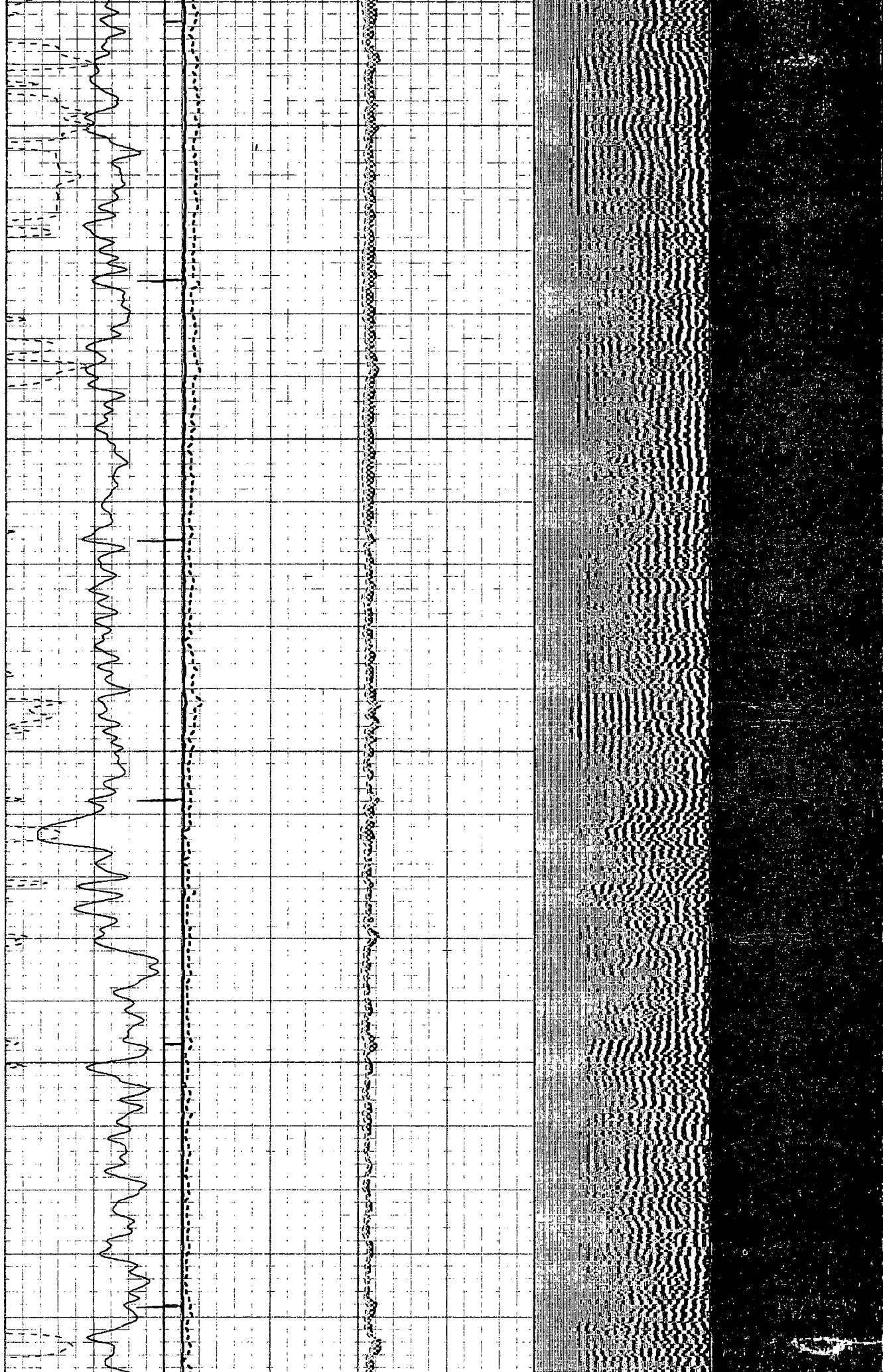


9550

9600

9650

9700



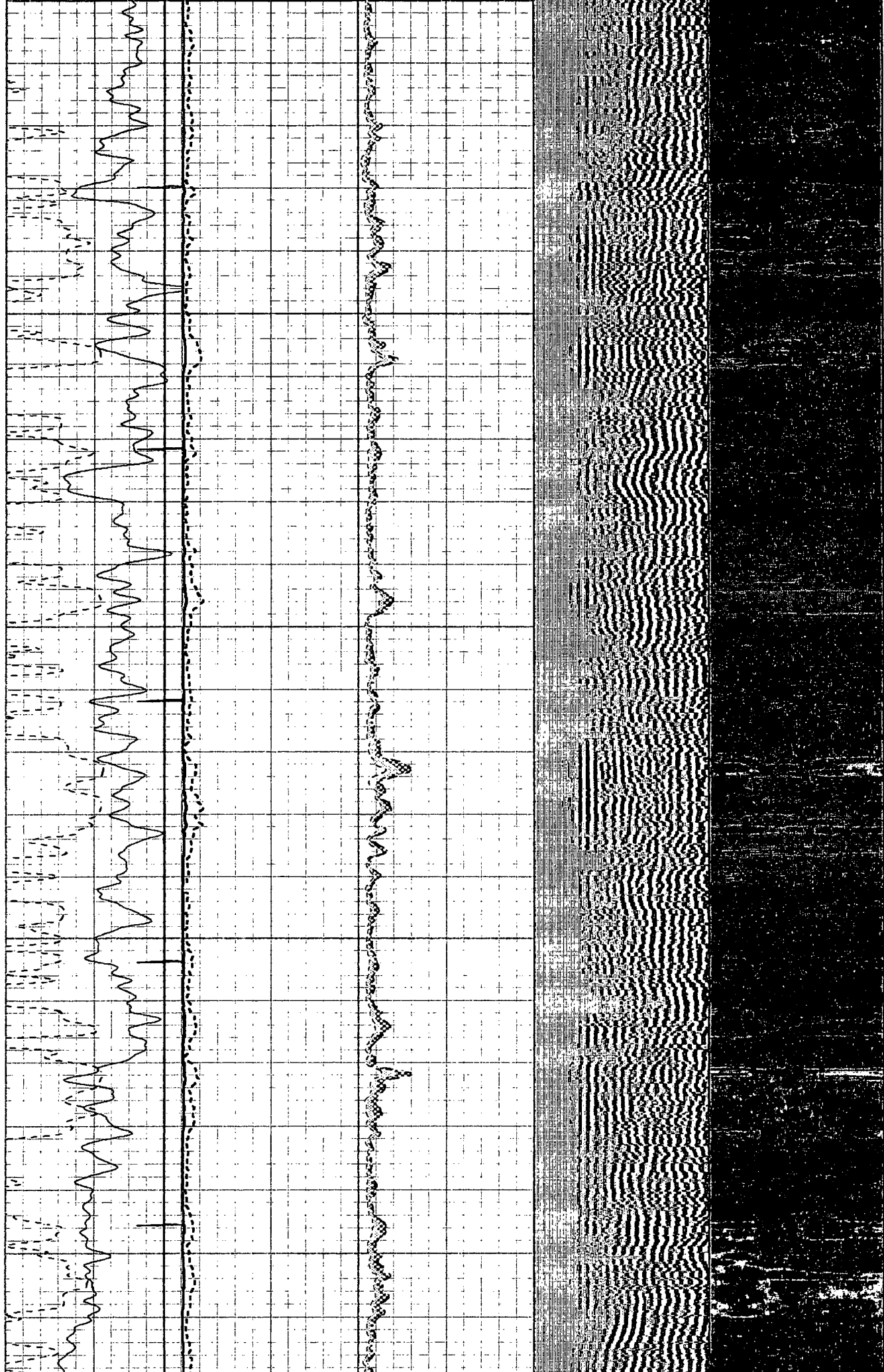
9750

9800

9850

9900

9950



9850

9900

9950

10000

10050

GAMMA RAY

3FT TRAVEL TIME

CCL

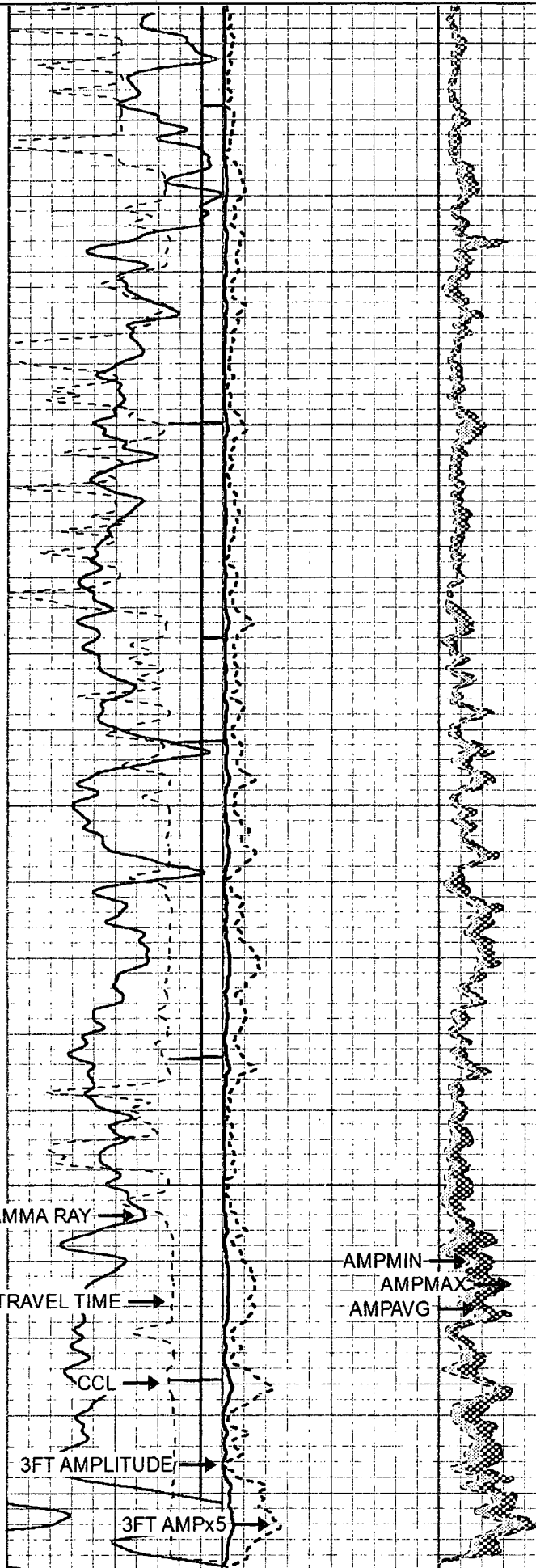
3FT AMPLITUDE

3FT AMPx5

AMPMIN

AMPMAX

AMPAVG



420	(usec)	220	0	(mV)	100	0	AMPMAX	200
9	CCL	-1	0	3FT AMPx5 (mV)	20	0	AMPMIN	200
GAMMA RAY								
0	(GAPI)	150						

Calibration Report

Database File 10-22-18_el1146_marathonrcbl.db
Dataset Pathname pass6
Dataset Creation Mon Oct 22 20:40:57 2018

Gamma Ray Calibration Report

Serial Number: 27GRL35-XXXX
Tool Model: 27GRL35
Performed: (Not Performed)

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 32AST40-0248
Tool Model: 32AST40

Calibration Casing Diameter: 5.500 in
Calibration Depth: 0.000 ft

Master Calibration, performed Mon Oct 22 19:41:26 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.005	1.281	0.000	71.921	55.919	0.303
CAL	-0.006	0.661				
5'	-0.006	1.472	0.000	71.921	48.663	0.280
SUM						
S1	-0.006	1.496	0.000	100.000	66.597	0.373
S2	-0.005	1.543	0.000	100.000	64.599	0.342
S3	-0.005	1.743	0.000	100.000	57.182	0.309
S4	-0.006	1.837	0.000	100.000	54.269	0.300
S5	-0.005	1.869	0.000	100.000	53.347	0.283
S6	-0.005	1.833	0.000	100.000	54.401	0.292
S7	-0.005	1.841	0.000	100.000	54.163	0.298
S8	-0.005	1.715	0.000	100.000	58.117	0.309
S9	-0.006	1.573	0.000	100.000	63.362	0.358
S10	-0.005	1.498	0.000	100.000	66.535	0.356
S11	-0.006	1.409	0.000	100.000	70.680	0.412
S12	-0.006	1.369	0.000	100.000	72.751	0.427

Temperature Calibration Report

Serial Number: 32AST40-0248
Tool Model: 32AST40
Performed: (Not Performed)

	Reference	Reading
Low Reference:	0.00 degF	0.00 usec
High Reference:	1.00 degF	1.00 usec

Offset:	0.00
Delta Spacing	2



Company	Marathon	
Well	Colibri Fed 20H	
Field		
County	Eddy	
State	NM	Country