

Doc# 200326311

FORM 21 Rev. 5/05

State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109



FOR OGCC USE ONLY

MECHANICAL INTEGRITY TEST

Fill out Part II of this form if well tested is a permitted or pending injection well. Send original plus one copy.

1. Duration of the pressure test must be a minimum of 15 minutes.
2. A pressure chart must accompany this report if this test was not witnessed by a OGCC representative.
3. For production wells, test pressures must be at a minimum of 300 psig.
4. For injection wells, test pressures must be at 300 psig or minimum injection pressure, whichever is greater.
5. A minimum 300 psi differential pressure must be maintained between the tubing and tubing/casing annulus pressure.
6. Do not use this form if submitting under provisions of Rule 326 s. (1) B. or C.
7. OGCC notification must be provided prior to the test.
8. Packers or bridge plugs, etc., must be set within 250 feet of the perforated interval to be considered a valid test.

Complete the Attachment Checklist

	OGC	OGCC
Pressure Chart	✓	
Cement Bond Log	✓	
Tracer Survey		
Temperature Survey		

OGCC Operator Number: 96850		Contact Name and Telephone	
Name of Operator: Williams Production RMT		Ryan Olson	
Address: 1058 County Road 215		No: (970) 987-4603	
City: Parachute	State: CO	Zip: 81635	Fax: (866) 524-2064
API Number: 05-045-14693		Field Name: Grand Valley	Field Number: 31290
Well Name: Williams		Number: GM 239-56	
Location (Qtr, Sec, Twp, Rng, Meridian): NESW Sec 36 T6S 96W 6th PM			

SHUT-IN PRODUCTION WELL INJECTION WELL Facility No.: _____

Part I Pressure Test

- 5-Year UIC Test
 Test to Maintain SI/TA Status
 Reset Packer
 Verification of Repairs
 Tubing/Packer Leak
 Casing Leak
 Other (Describe): Final MIT for Injection Permit

Describe Repairs: _____

NA - Not Applicable	Wellbore Data at Time Test		Casing Test <input type="checkbox"/> NA
Injection/Producing Zone(s)	Perforated Interval: <input type="checkbox"/> NA	Open Hole Interval: <input type="checkbox"/> NA	Use when perforations or open hole is isolated by bridge plug or cement plug
Upper Mesaverde	3923'-4822'		Bridge Plug or Cement Plug Depth
			CIBP @ 5003'

Tubing Casing/Annulus Test <input type="checkbox"/> NA			
Tubing Size:	Tubing Depth:	Top Packer Depth:	Multiple Packers?
2 7/8"	3883.92'	3877.25'	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Test Data					
Test Date	Well Status During Test	Date of Last Approved MIT	Casing Pressure Before Test	Initial Tubing Pressure	Final Tubing Pressure
10/20/11	S	N/A	59	0	0
Starting Casing Test Pressure	Casing Pressure - 5 Min.	Casing Pressure - 10 Min.	Final Casing Test Pressure	Pressure Loss or Gain During Test	
1498	1492	1488	1486	-12	

Test Witnessed by State Representative? YES NO

OGCC Field Representative: Mike Longworth

Part II Wellbore Channel Test

Complete only if well is or will be an injection well.

Indicate method used for cement integrity test, attach appropriate records, charts, or logs unless previously submitted.

Tracer Survey
 CBL or Equivalent
 Temperature Survey
 Run Date: _____
 Run Date: 12/31/07
 Run Date: _____

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Ryan Olson

Signed: _____ Title: Operations Engineer Date: 10/20/11

OGCC Approval: Michael... Title: Field Insp. Date: 10-20-11

Conditions of Approval, if any: _____

Onyskiw, Denise

From: Longworth, Mike
Sent: Friday, October 21, 2011 1:05 PM
To: Olson, Ryan
Cc: Onyskiw, Denise
Attachments: Scan_Doc0009.pdf

MIT Form 21 UIC Williams GM 239-36 045-14693

THANK YOU!

MIKE LONGWORTH
FIELD INSPECTOR (GARFIELD AND RIO BLANCO COUNTIES)
OFFICE: 970.243.1183
FAX: 970.263.7338
mike.longworth@state.co.us

State of Colorado
Oil and Gas Conservation Commission

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MECHANICAL INTEGRITY TEST

Fill out Part II of this form if well tested is a permitted or pending injection well. Send original plus one copy.

1. Duration of the pressure test must be a minimum of 15 minutes.
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5. A minimum 300 psi differential pressure must be maintained between the tubing and tubing/casing annulus pressure.
6. Do not use this form if submitting under provisions of Rule 326.a. (1) B. or C.
7. OGCC notification must be provided prior to the test.
8. Packers or bridge plugs, etc., must be set within 250 feet of the perforated interval to be considered a valid test.

Complete the Attachment Checklist

OGCC Operator Number: _____		Contact Name and Telephone	
Name of Operator: _____		No: _____	
Address: _____		Fax: _____	
City: _____	State: _____	Zip: _____	
API Number: _____		Field Name: _____	
		Field Number: _____	
Well Name: _____		Number: _____	
Location (QtrQtr, Sec, Twp, Rng, Meridian): _____			

	Oper	OGCC
Pressure Chart		
Cement Bend Log		
Tracer Survey		
Temperature Survey		

SHUT-IN PRODUCTION WELL INJECTION WELL Facility No.: _____

Part I Pressure Test

- 5-Year UIC Test Test to Maintain SI/TA Status Reset Packer
 Verification of Repairs Tubing/Packer Leak Casing Leak Other (Describe): _____

Describe Repairs: _____

NA - Not Applicable	Wellbore Data at Time Test	
Injection/Producing Zone(s)	Perforated Interval: <input type="checkbox"/> NA	Open Hole Interval: <input type="checkbox"/> NA

Casing Test NA
Use when perforations or open hole is isolated by bridge plug or cement plug
Bridge Plug or Cement Plug Depth

Tubing Casing/Annulus Test				<input type="checkbox"/> NA
Tubing Size:	Tubing Depth:	Top Packer Depth:	Multiple Packers?	
			<input type="checkbox"/> YES <input type="checkbox"/> NO	

Test Data					
Test Date	Well Status During Test	Date of Last Approved MIT	Casing Pressure Before Test	Initial Tubing Pressure	Final Tubing Pressure
Starting Casing Test Pressure	Casing Pressure - 5 Min.	Casing Pressure - 10 Min.	Final Casing Test Pressure	Pressure Loss or Gain During Test	

Test Witnessed by State Representative? OGCC Field Representative:

YES NO

Part II Wellbore Channel Test

Complete only if well is or will be an injection well.

Indicate method used for cement integrity test, attach appropriate records, charts, or logs unless previously submitted.

<input type="checkbox"/> Tracer Survey	<input type="checkbox"/> CBL or Equivalent	<input type="checkbox"/> Temperature Survey
Run Date: _____	Run Date: _____	Run Date: _____

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: _____

Signed: _____ Title: _____ Date: _____

OGCC Approval: _____ Title: _____ Date: _____

Conditions of Approval, if any:

Form 21 Attachments

Form 21 will be completed in its entirety after the testing is completed on the proposed injection well (GM 239-36)

1. Pressure Chart – This will be provided after the completion of the well test.
2. Cement Bond Log



01351795

RECEIVED
JAN 23 2009
COGCC
State

Company WILLIAMS PRODUCTION CO
Well GM 239-36
Field GRAND VALLEY
County GARFIELD State CO

Company WILLIAMS PRODUCTION
Well •GM 239-36
Field GRAND VALLEY
County GARFIELD

API No.: 05045148930000 Serv #: 5571137
Location: SURFACE:
• 2122' FSL & 1638' FWL
• 2169' FSL & 0784' FWL

• Sec: 36 Twp: 06S Rge: 96W
GROUND LEVEL Elevation 5597'
KB 15 Ft. above perm. datum
KB

Other Services

RMTE

Permanent Datum GROUND LEVEL Elevation 5597'
Log Measured From KB 15 Ft. above perm. datum
Drilling Measured From KB

Date @ Time Logged 31 DEC 2007 13:30 HRS Type Fluid in Hole FRESH WATER
Run No. ONE Density of Fluid 8.4 PPG
Depth - Driller 7116' Fluid Level FULL
Depth - Logger 7045' Cement Top Est. Logged 2200'
Bottom - Logged Interval 7037' Equipment / Location 10028060 / GJ
Top - Log Interval SURFACE Recorded by JARRASCUE
Max. Recorded Temp. 220 DGF Witnessed by N/A
CEMENTING DATA Surface Protection String Production String Liner CAS/NG 1/20
Date / Time Cemented String Protection String Production String
Primary / Squeeze

Expected Compressive Strength psig hrs psig hrs
Cement Volume
Cement Type / Weight /
Formulation
Mud Type / Mud Wgt. /

Borehole Record Casing & Tubing Record
Run Number Bit From To Size Weight From To
ONE 13.5" SURFACE 1115' 9.625" 32.3# SURFACE 1115'
TWO 7.875" 1115' 7116' 4.5" 11.6# SURFACE 7116'

TOC 2386
APK 11/13/09

<<< Fold Here >>>

HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANOTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

Comments

CBL-CCL-GR RAN IN COMBINATION
PRIMARY LOG FOR THIS WELL DATED 05 DEC 2007.
SHORT JOINT AT: 4001' - 4022'.
YOUR CREW TODAY: C.BROWNLEE, K.HOLLIDAY, J.STEWART
E.I.T. : R, ROUGHT
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES; GRAND JUNCTION, CO
(970) 523 - 3600

The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client

EQUIPMENT DATA

GAMMA RAY		CCL		CBL-MSG			
Run No.	ONE	Run No.	ONE	Run No.	ONE	Run No.	
Serial No.	400	Serial No.	400	Serial No.	400	Serial No.	
Model No.	CBL_DC	Model No.	CBL_DC	Model No.	CBL_DC	Model No.	
Diameter	3.25"	Diameter	3.25"	Diameter	3.25"	Diameter	

LOGGING DATA

General Data

Pass	Depths		Well Head	Speed	Logging Run Comments
No.	From	To	Pressure	Ft/Min	
ONE	7045'	6840'	0 PSI	60	REPEAT LOG SECTION
TWO	7045'	SURFACE	0 PSI	60	MAIN LOG SECTION

Pass	GAMMA RAY		CCL		MSG		Scale	
	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
ONE	0	200	-9	1	200	1200		

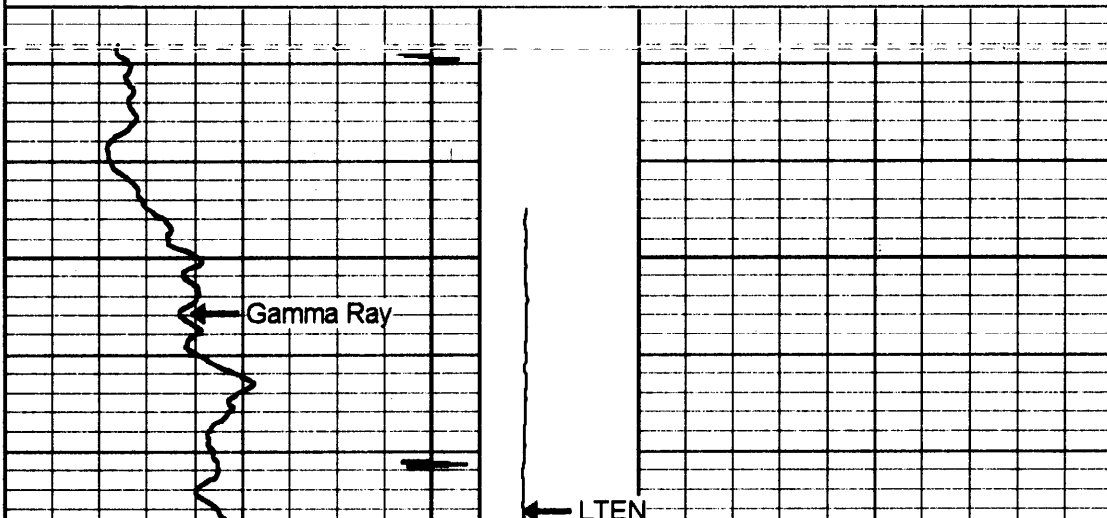
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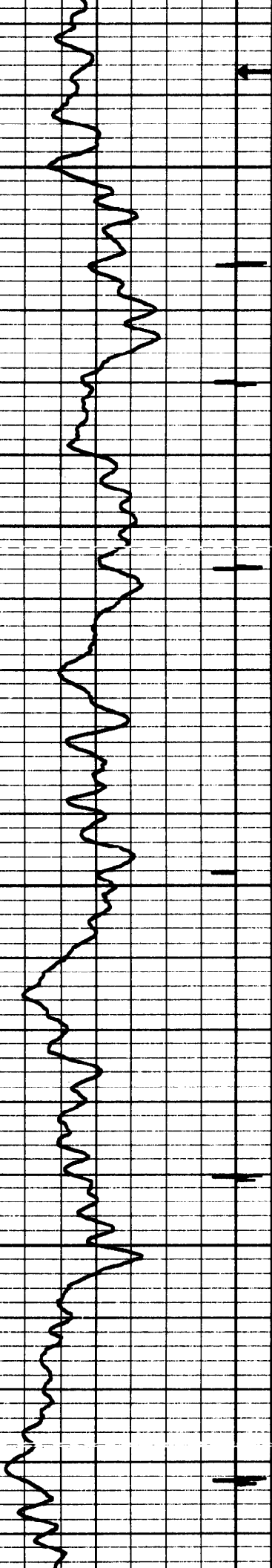
Maximum Deviation	deg. @	KOP

HALLIBURTON	<h1>ACOUSTIC CEMENT BOND LOG</h1> <h2>MAIN LOG SECTION</h2> <h3>5"=100'</h3>
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Database File: gm_239_36_cbl.db
 Dataset Pathname: G_VALLEY/GM_239_36/run1/MAIN_CBL
 Presentation Format: cbl_main
 Dataset Creation: Mon Dec 31 15:30:28 2007
 Charted by: Depth in Feet scaled 1:240

360	TRAVEL TIME (usec)	160	LTEN	0	AMP AMPLITUDE (mV)	10	200	MSG
-9	Collar Locator	1	(lb)2000	0	AMPLITUDE (mV)	100		
0	Gamma Ray (GAPI)	200						

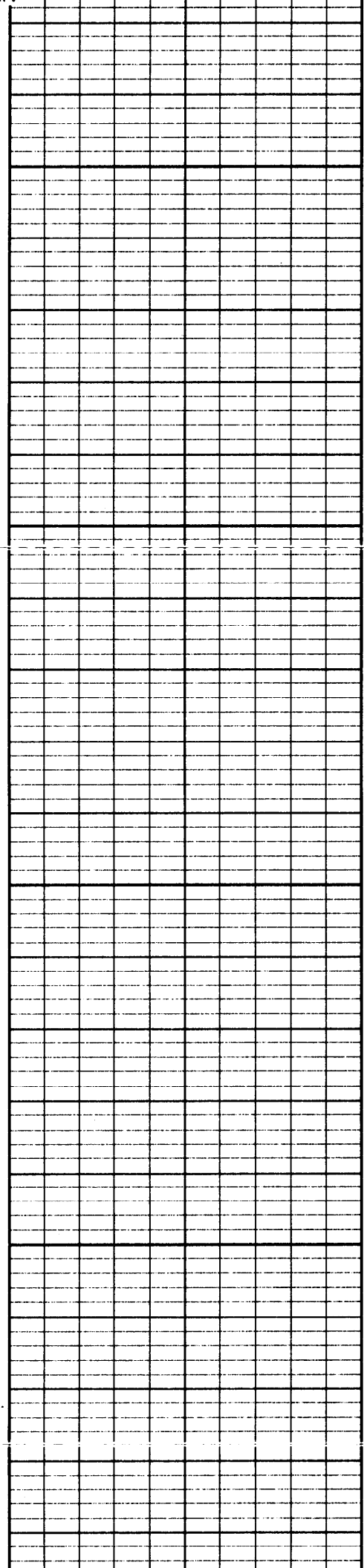


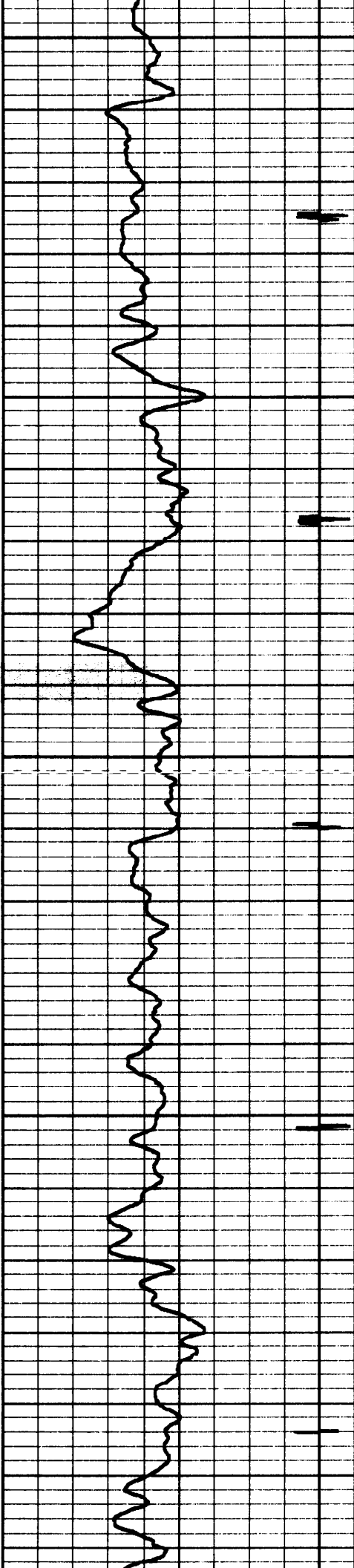


CCL

100

200

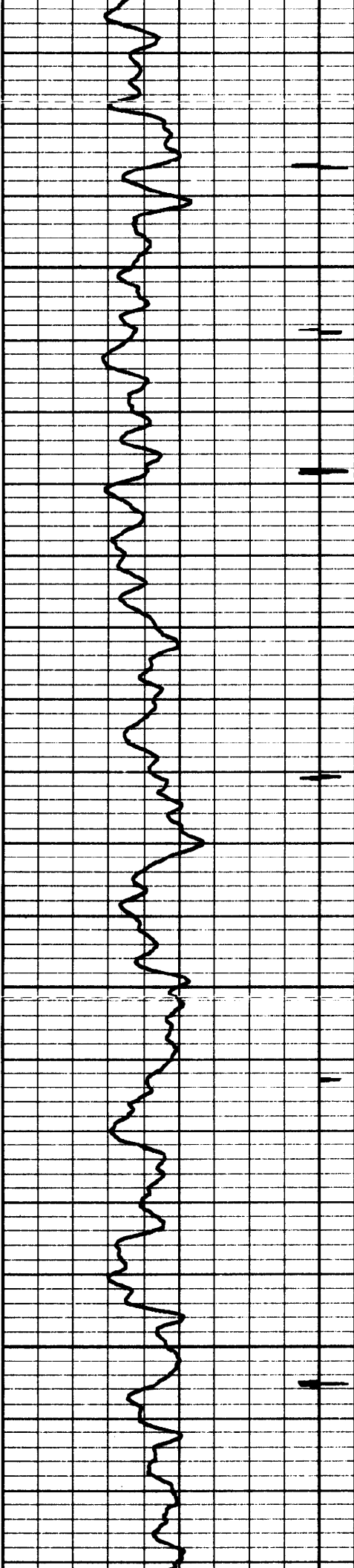




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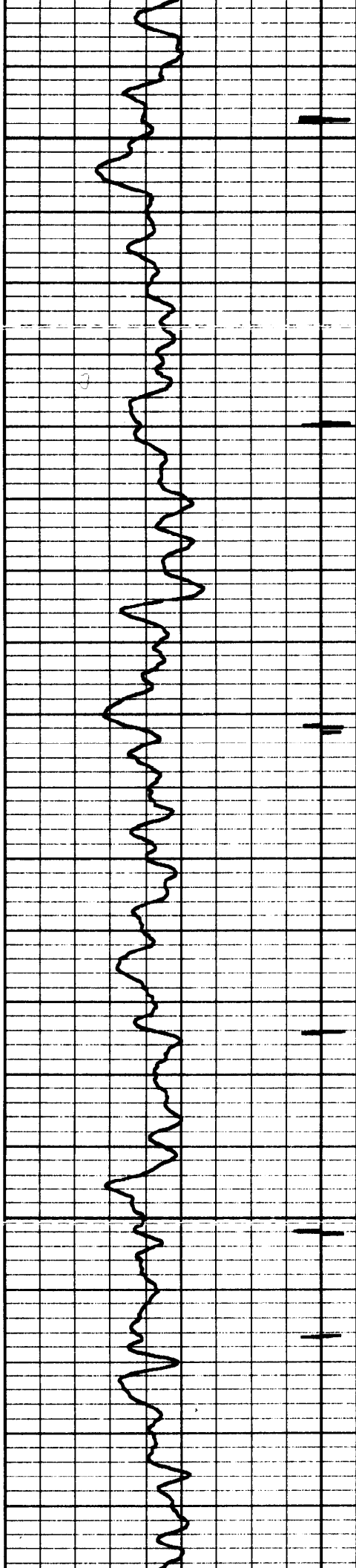
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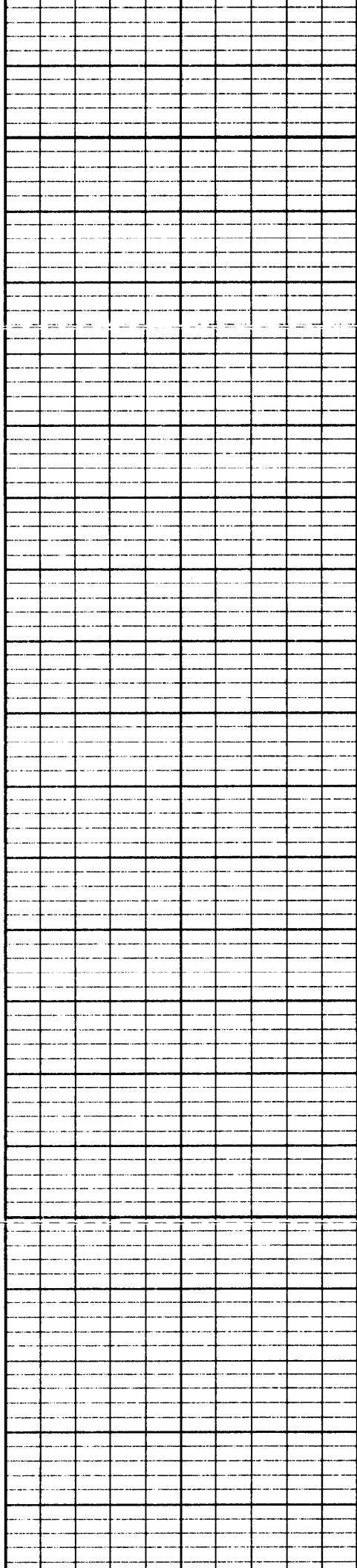
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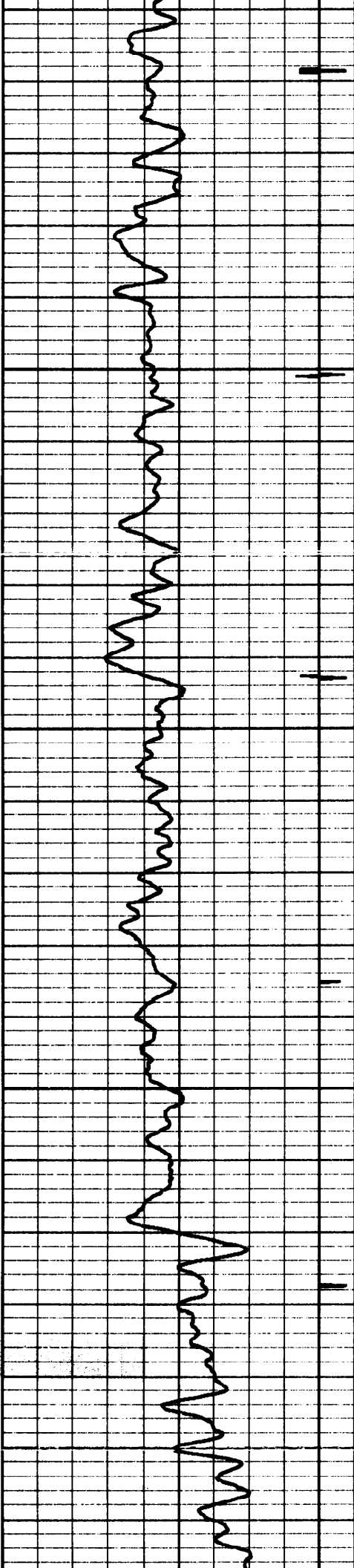
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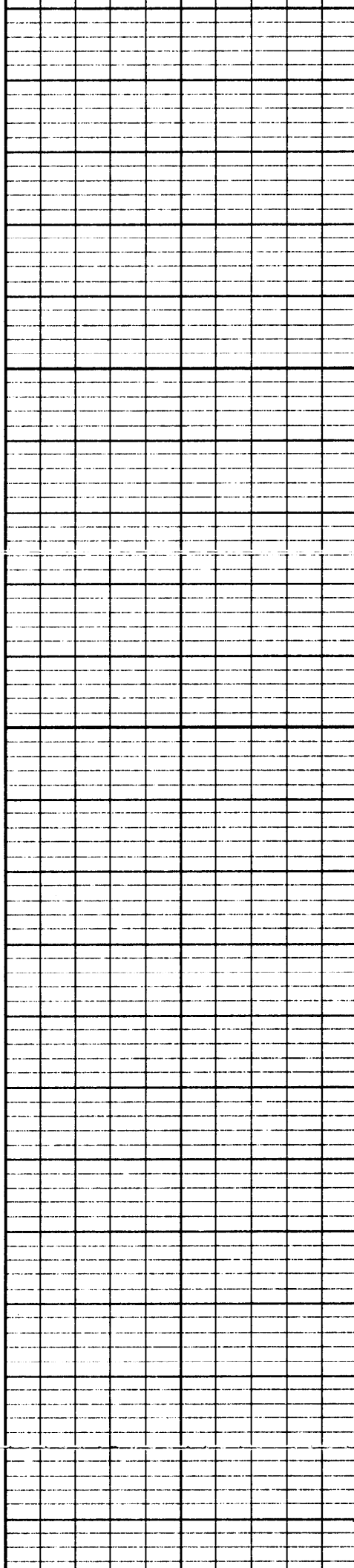
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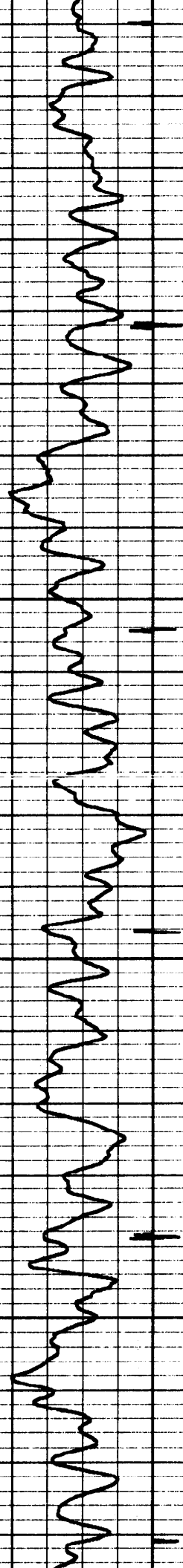




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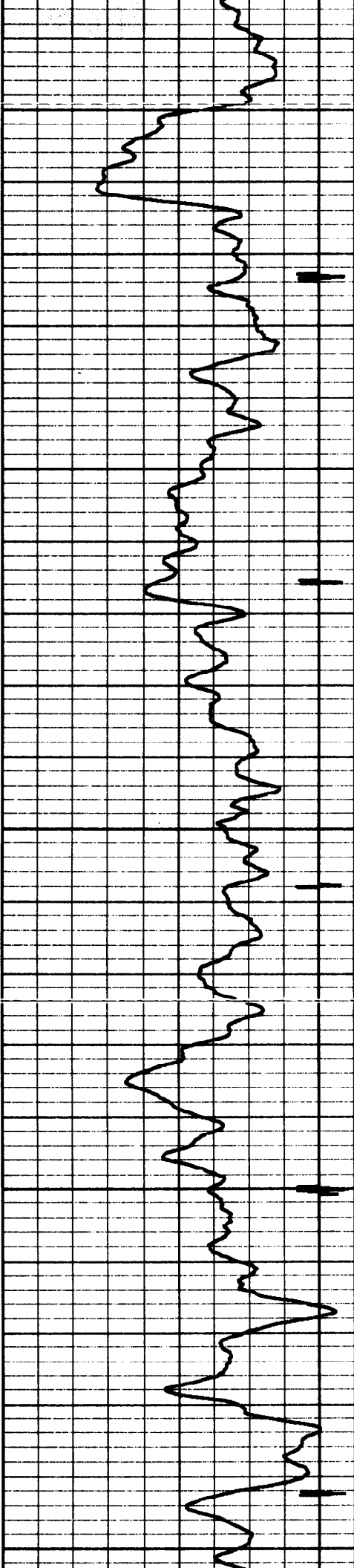
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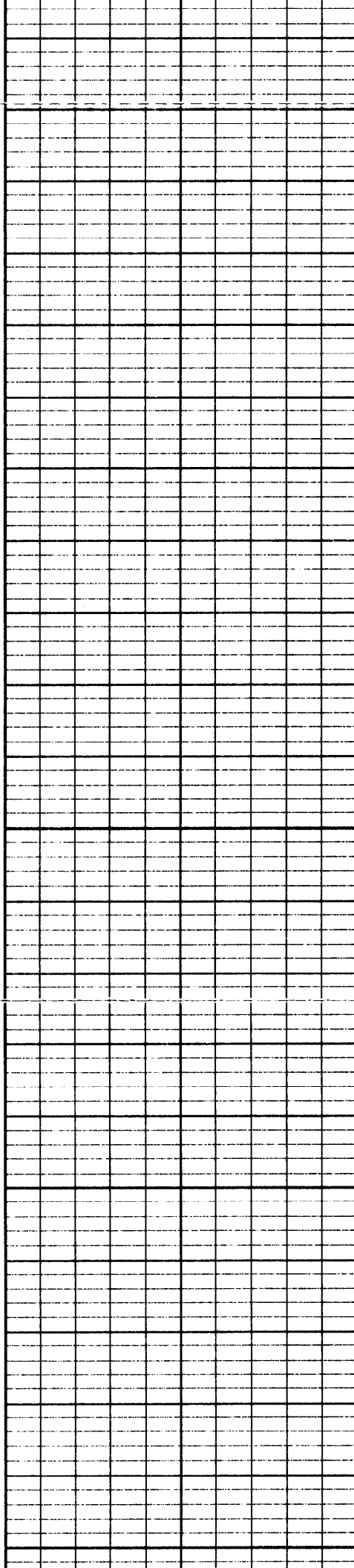
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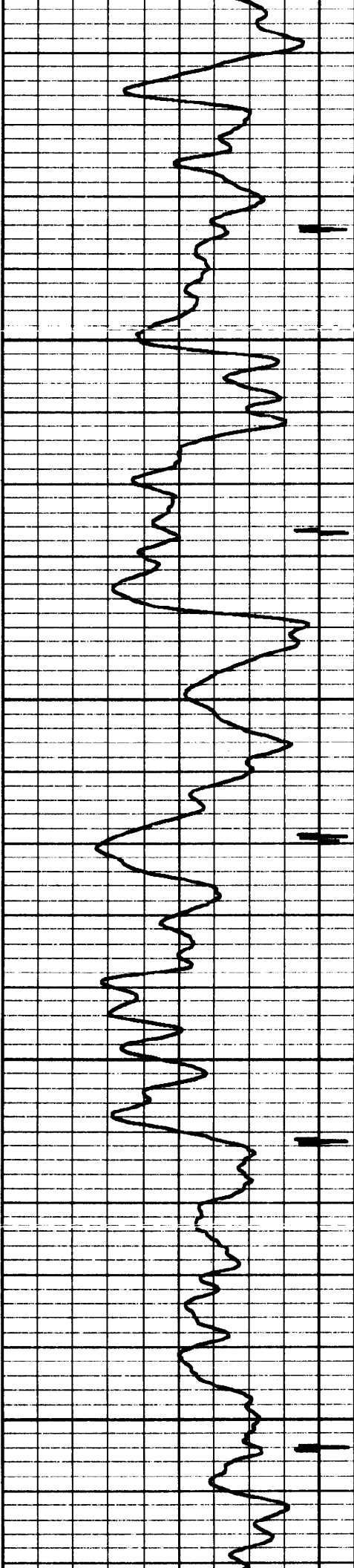


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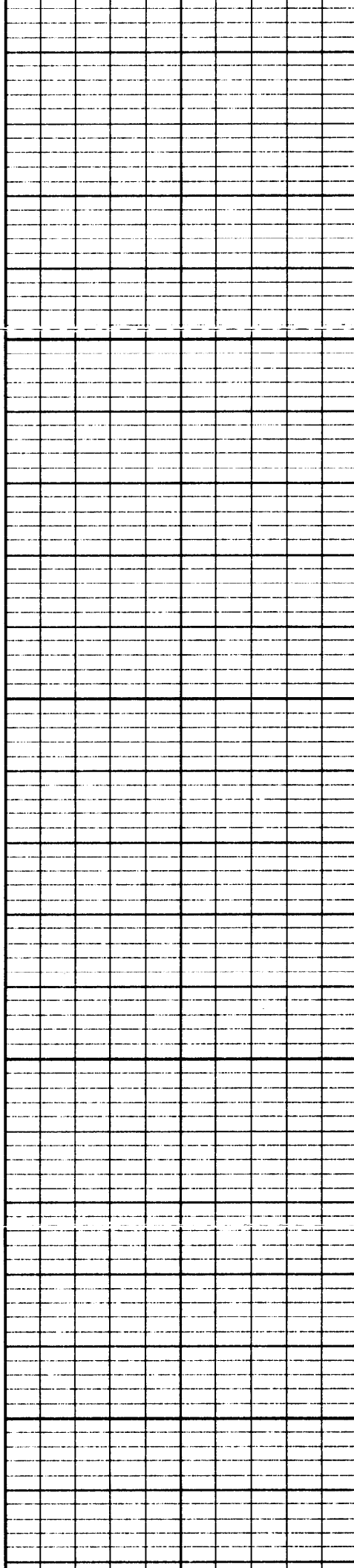
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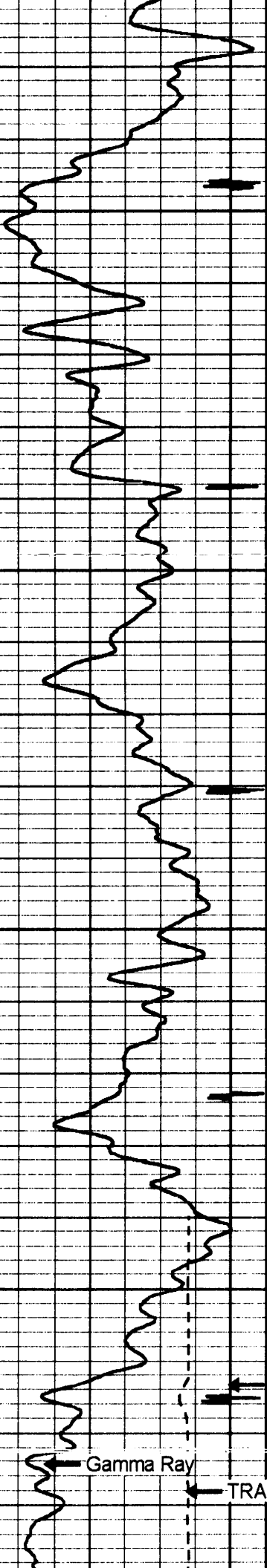




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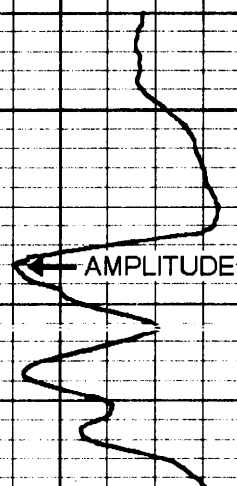
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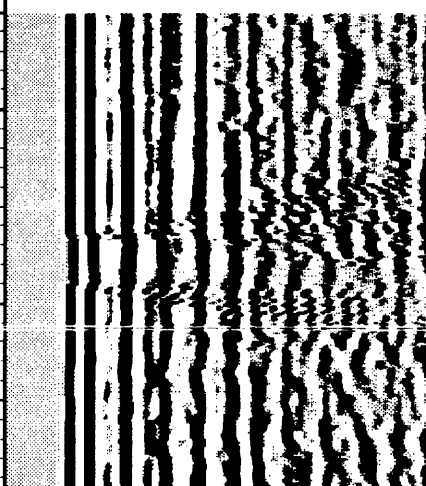
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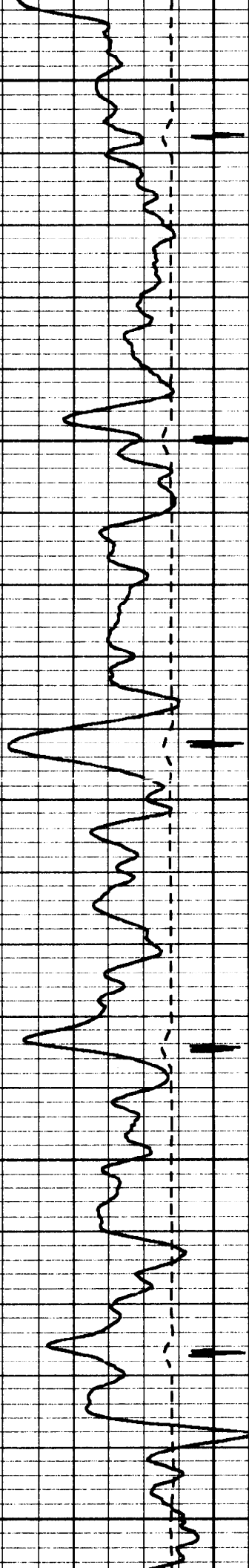
TRAVEL TIME

LTEN



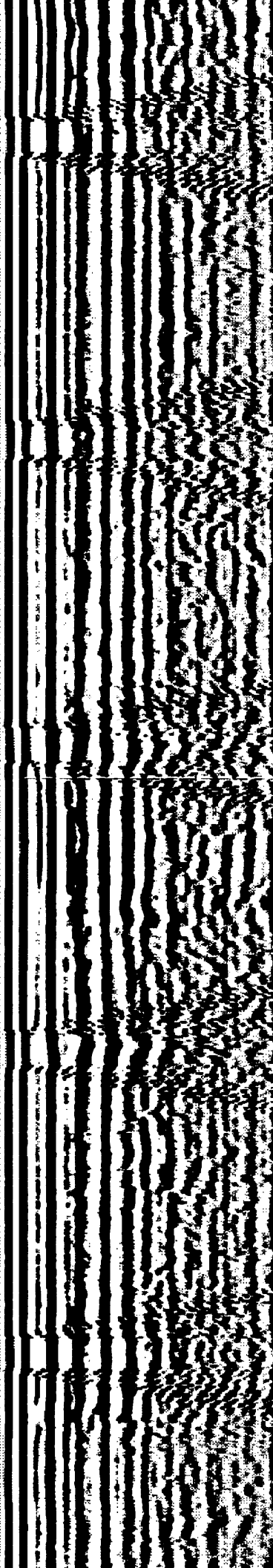
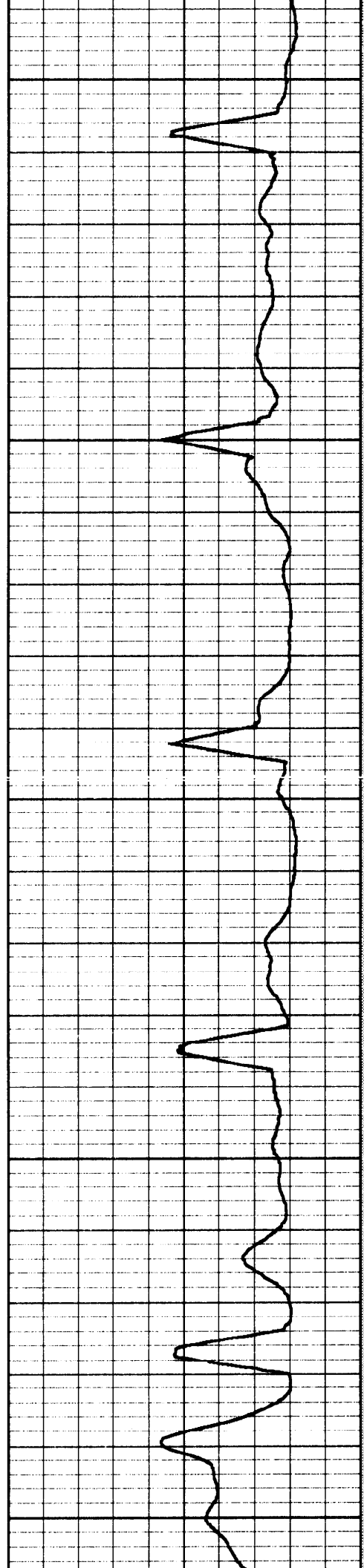
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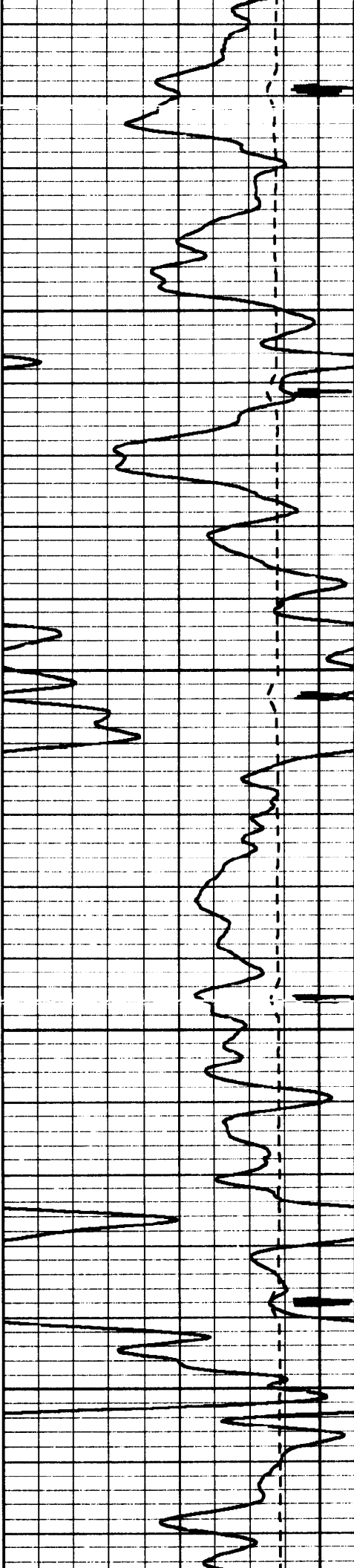




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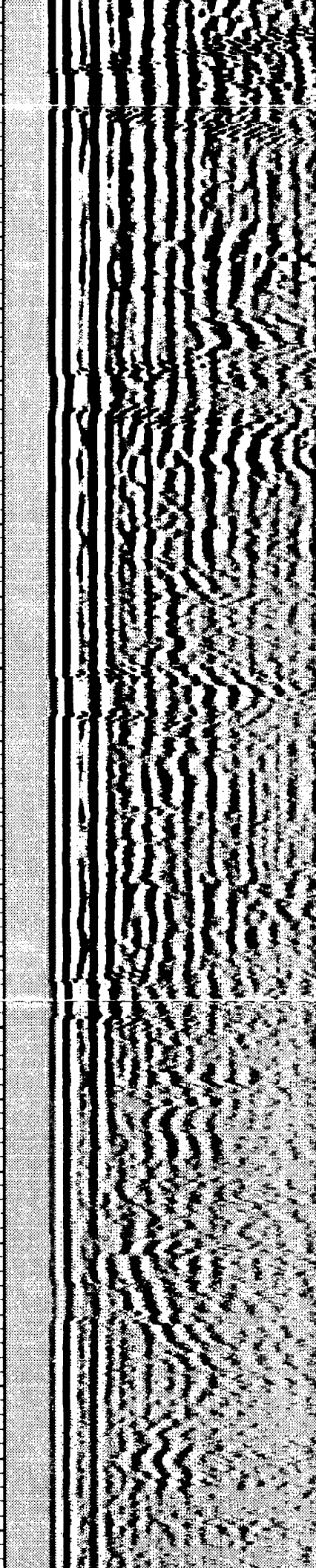
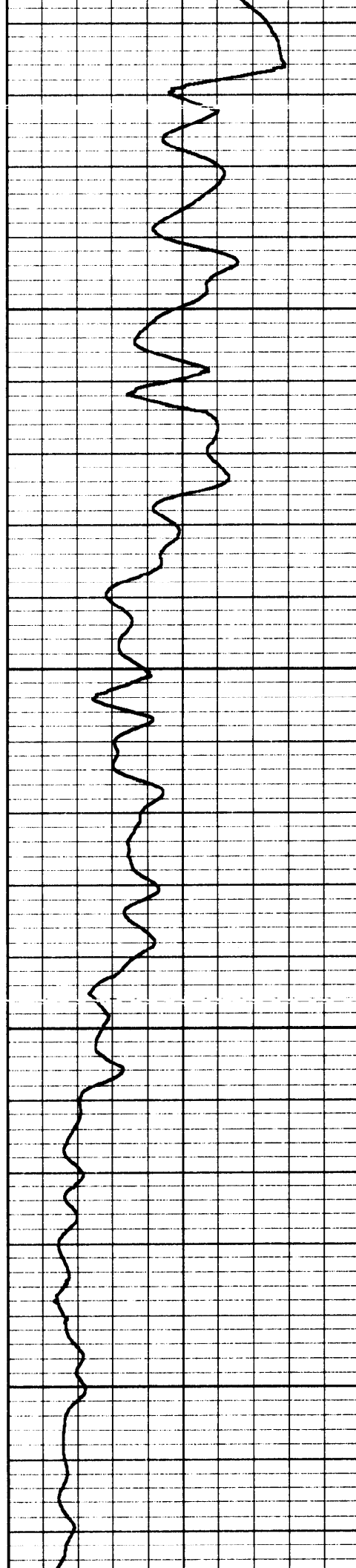
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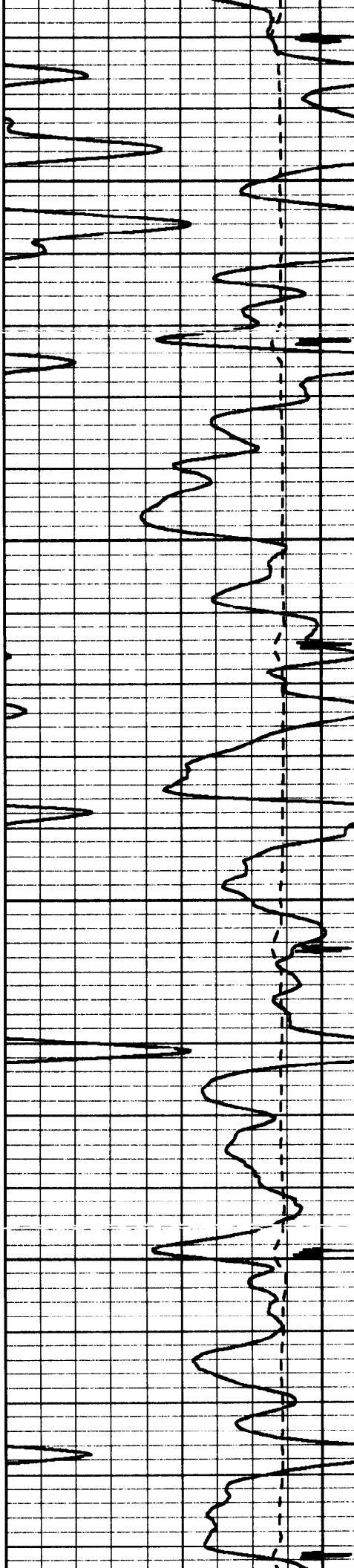




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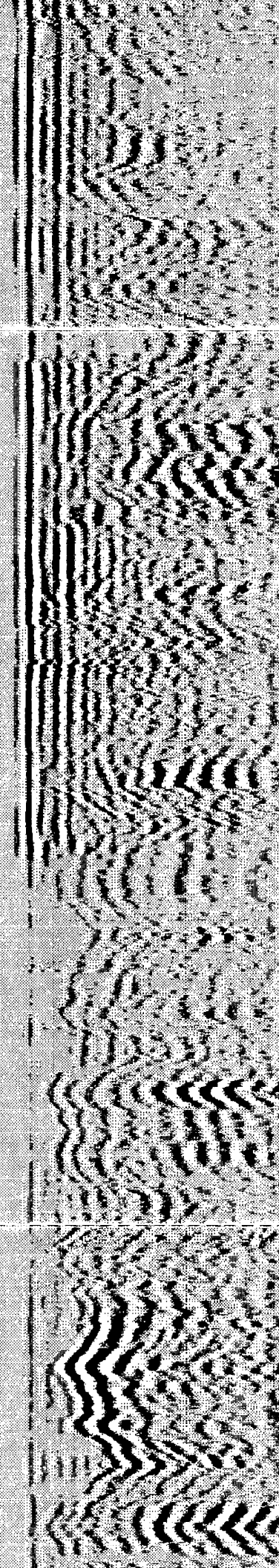
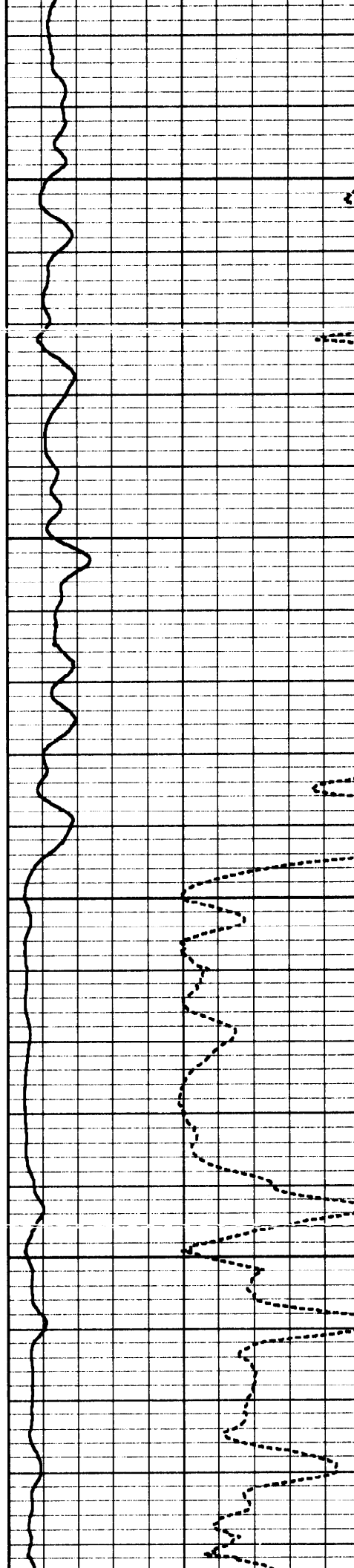
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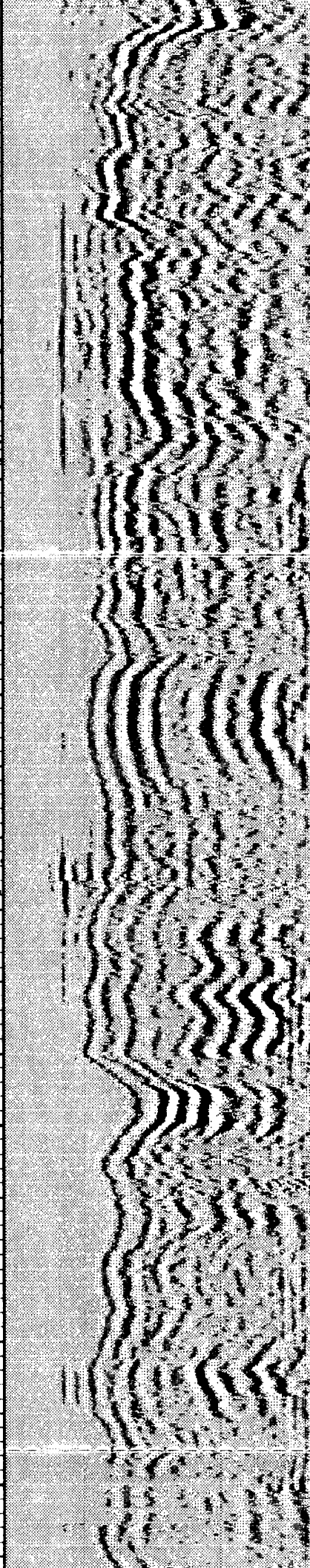
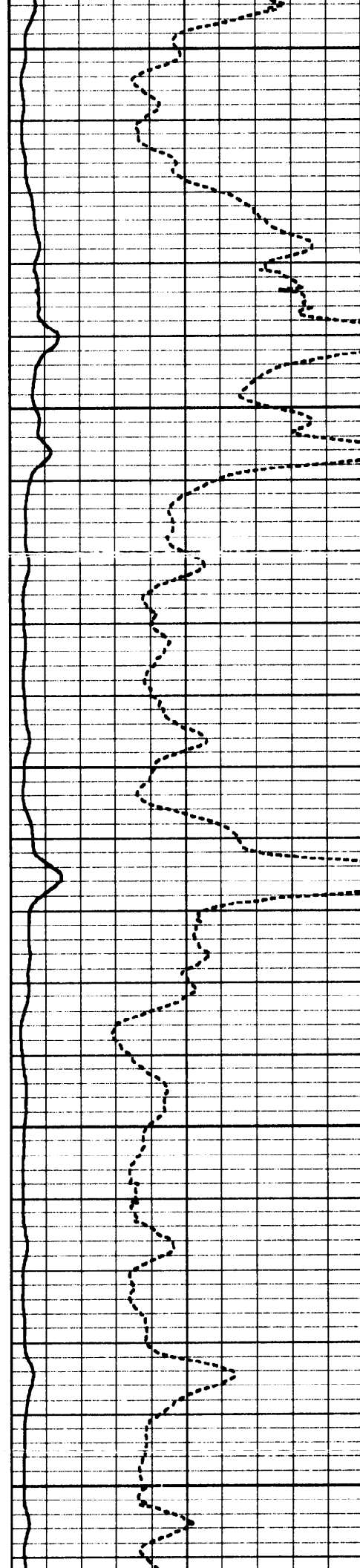
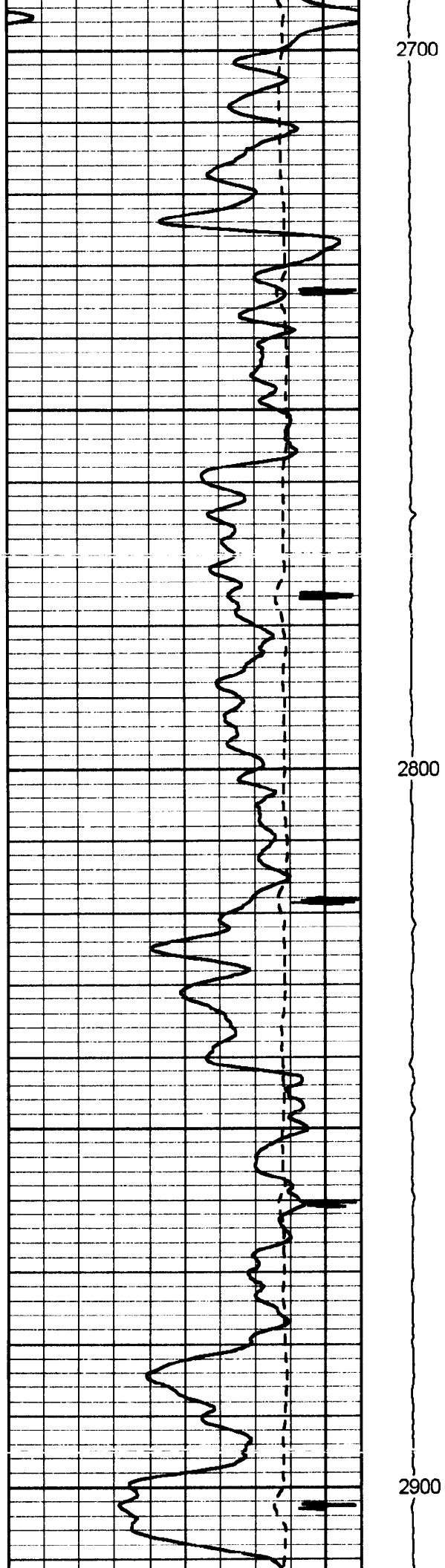


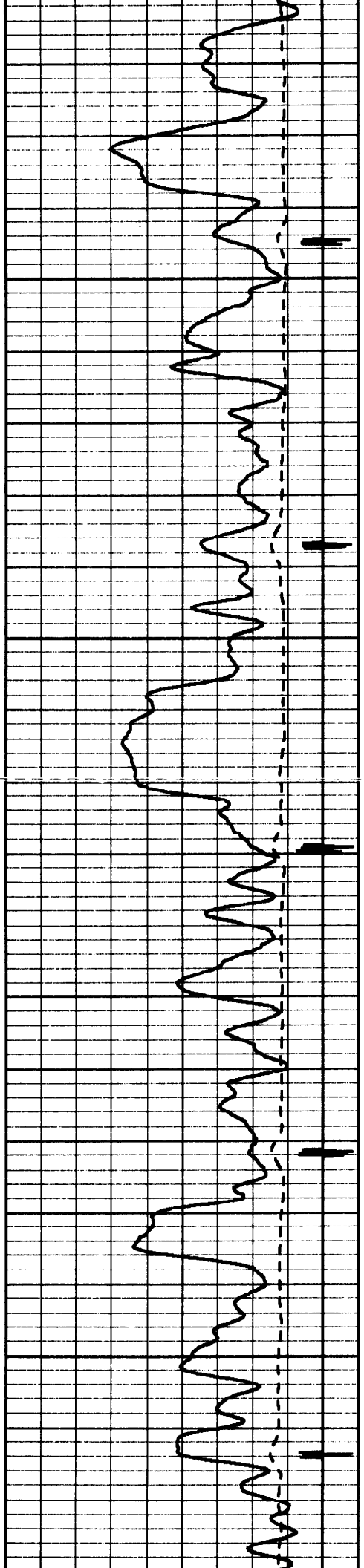


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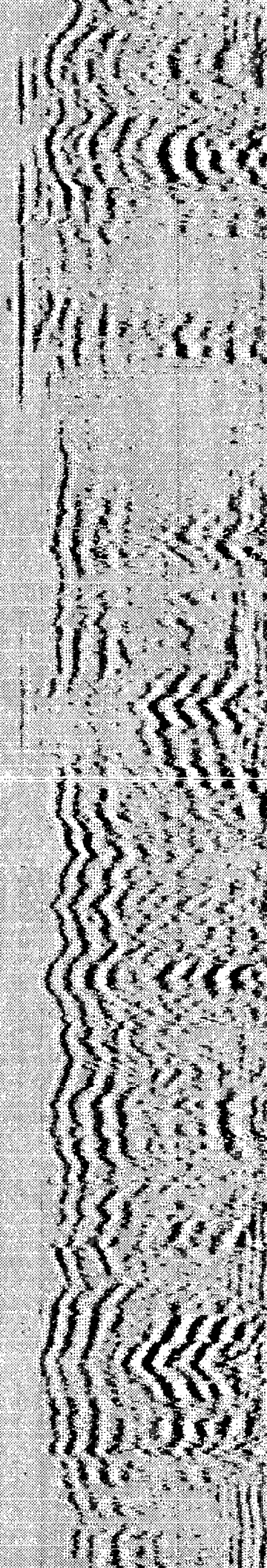
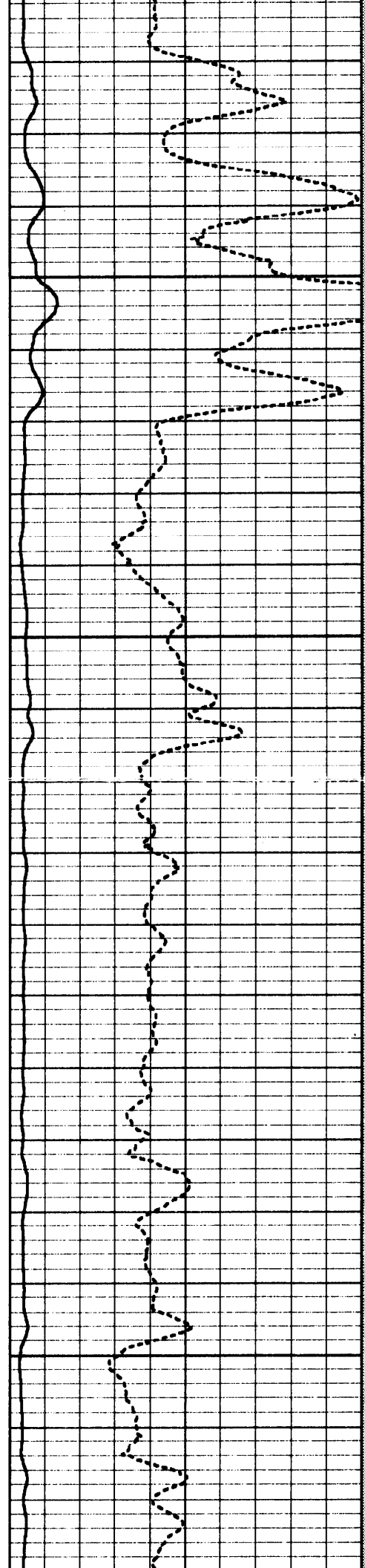


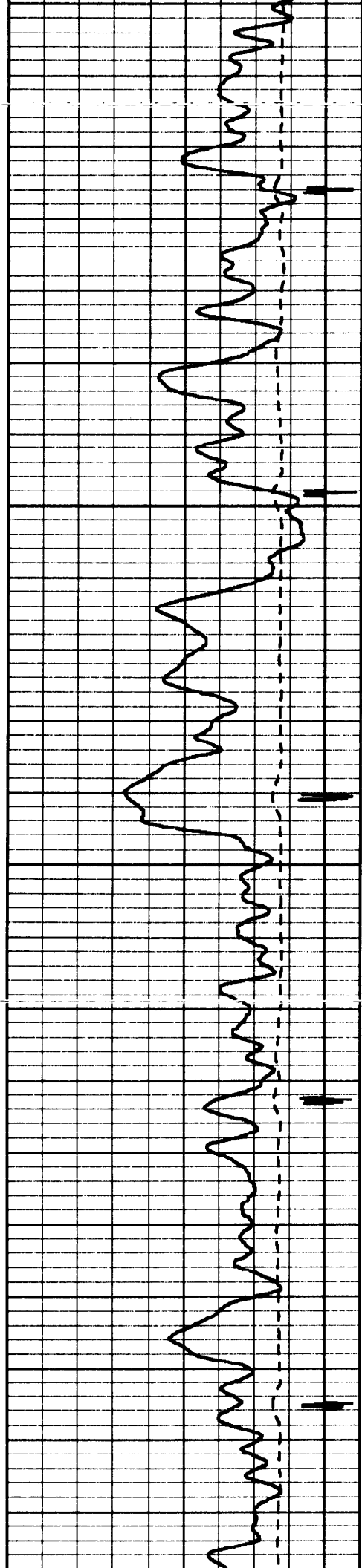




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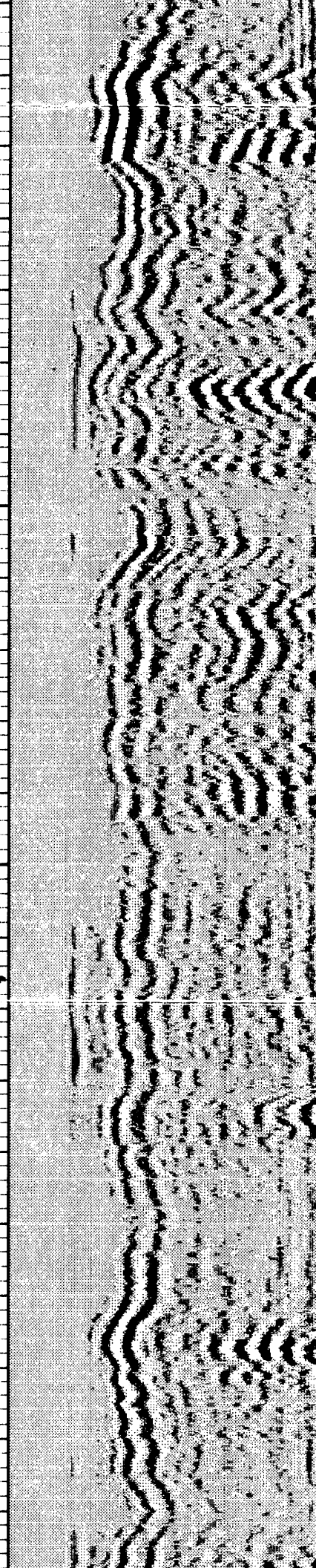
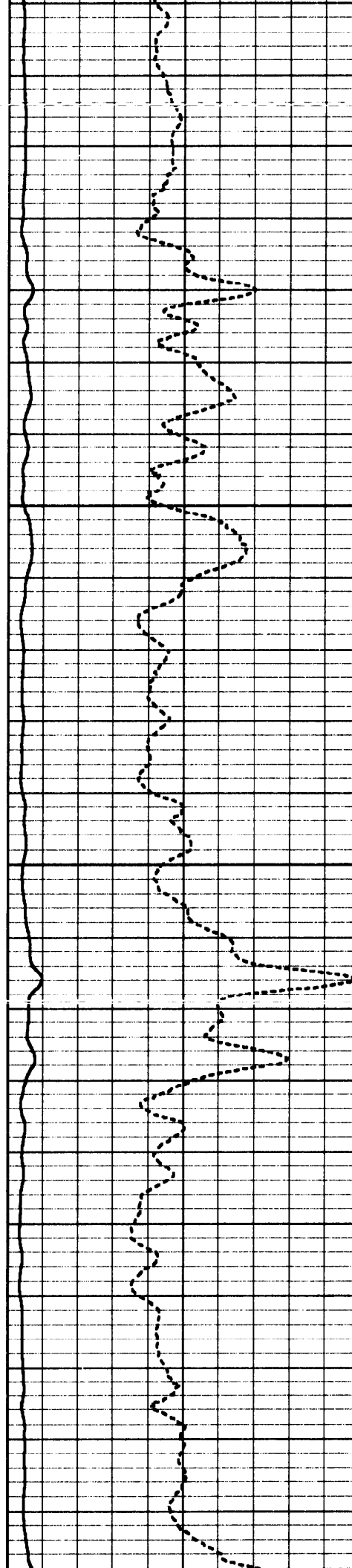
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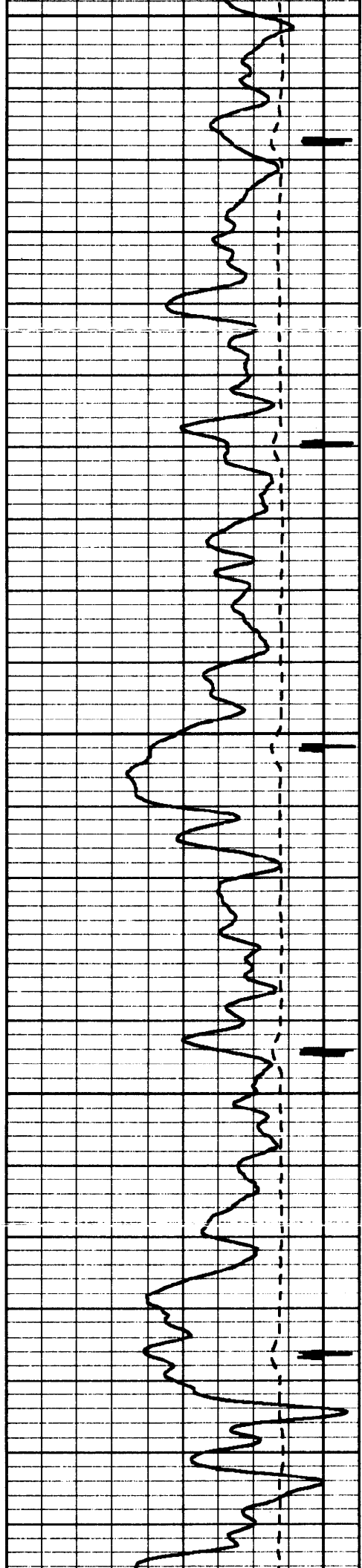




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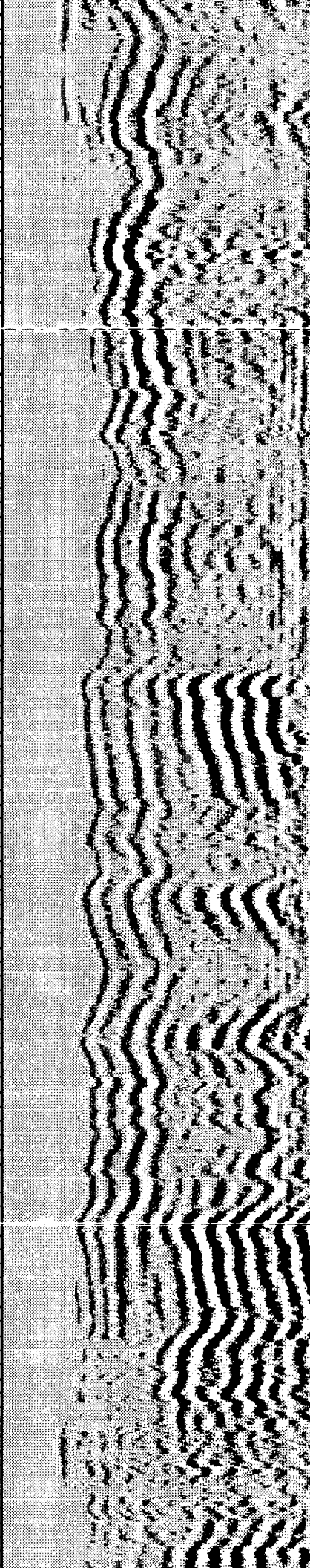
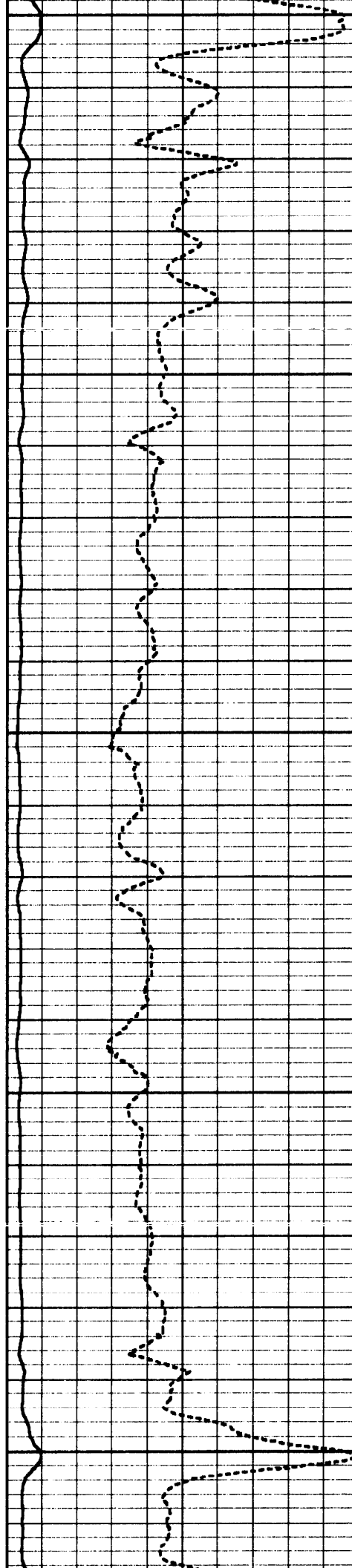
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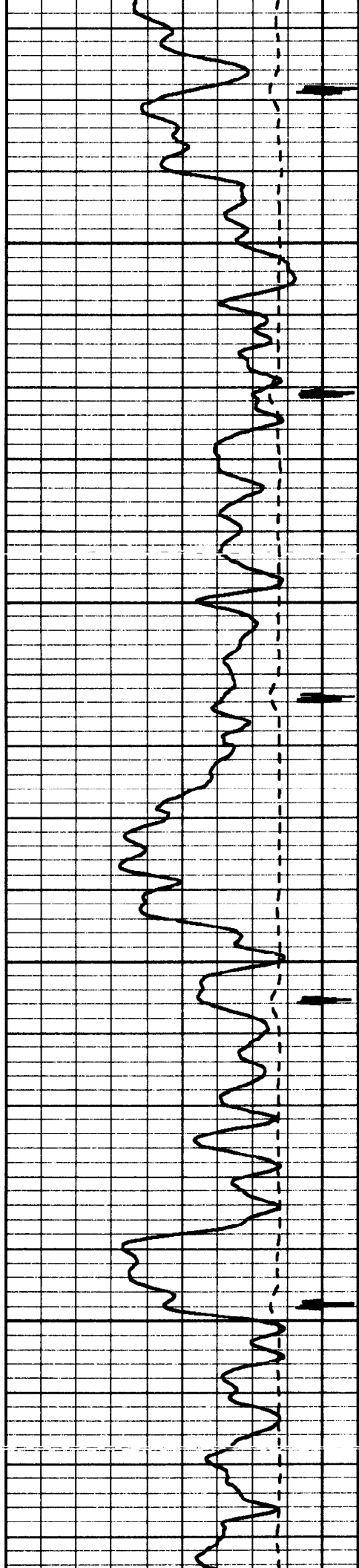




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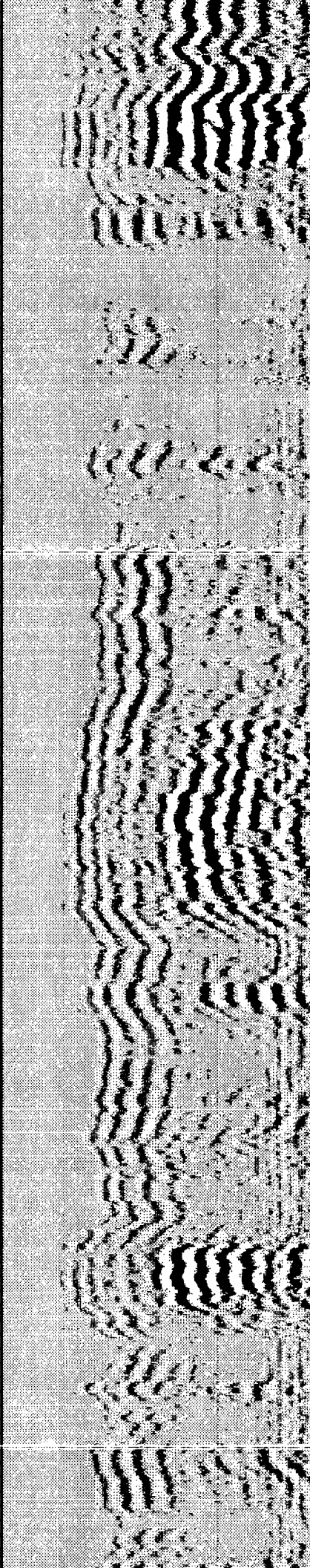
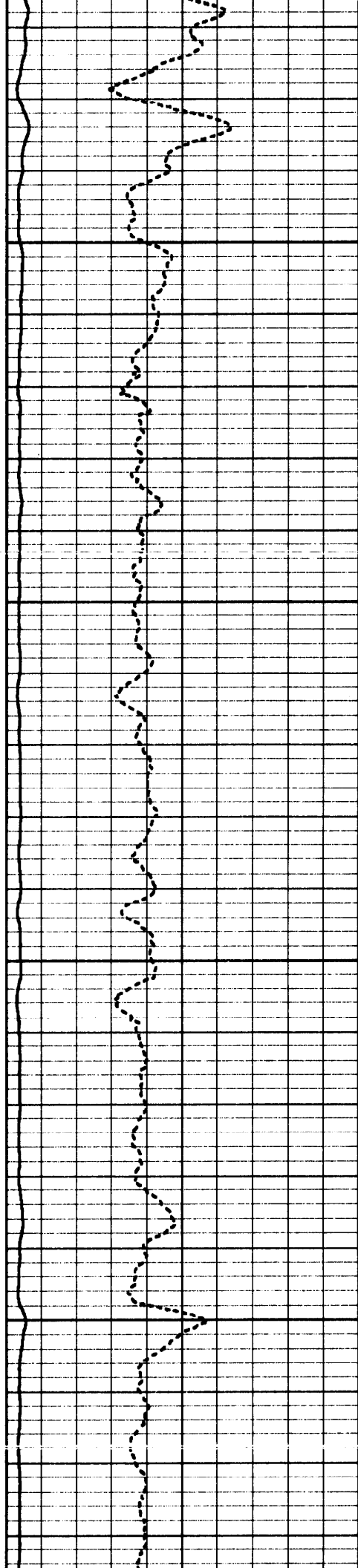
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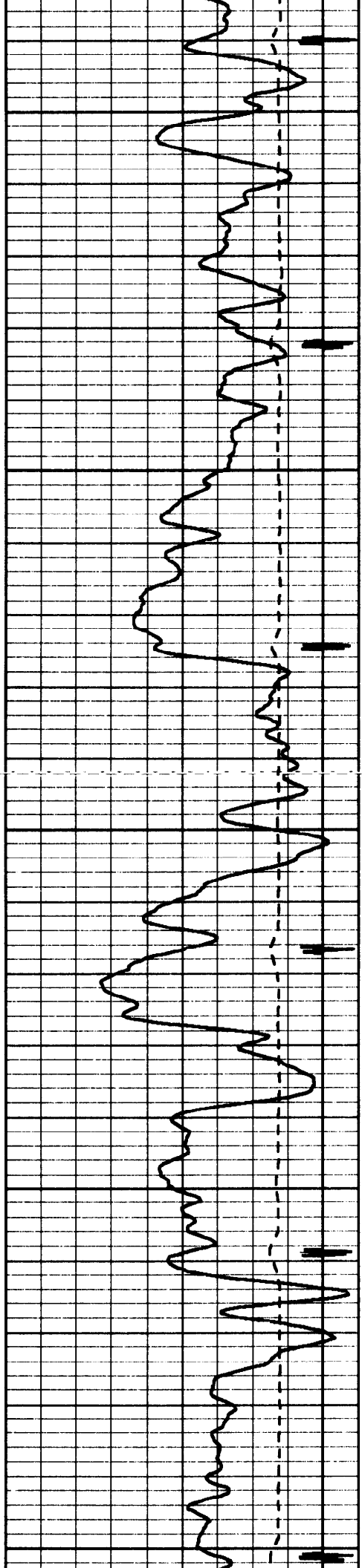




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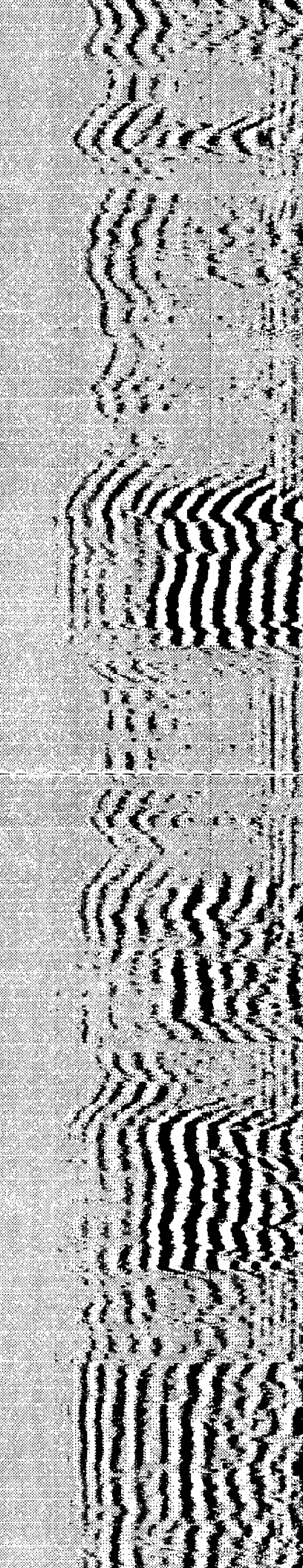
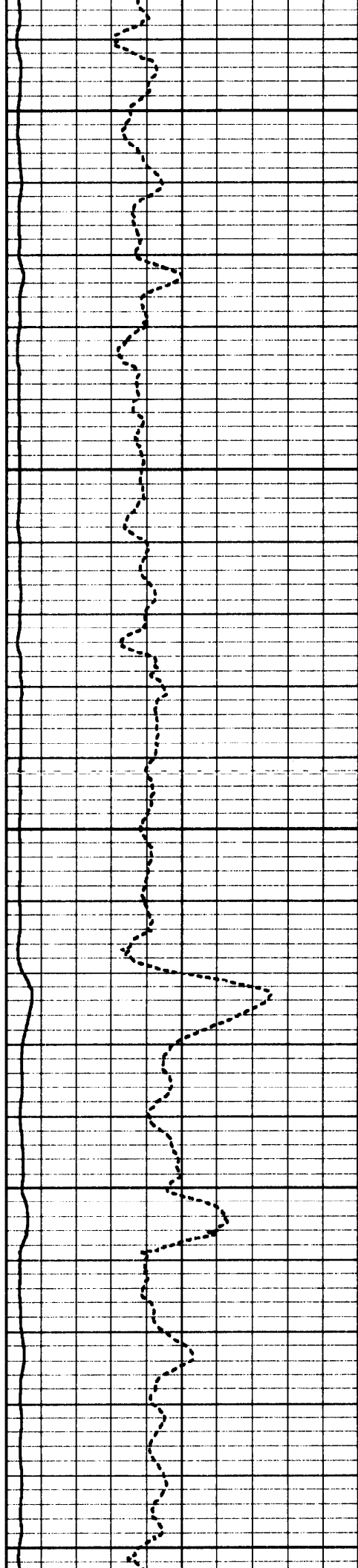




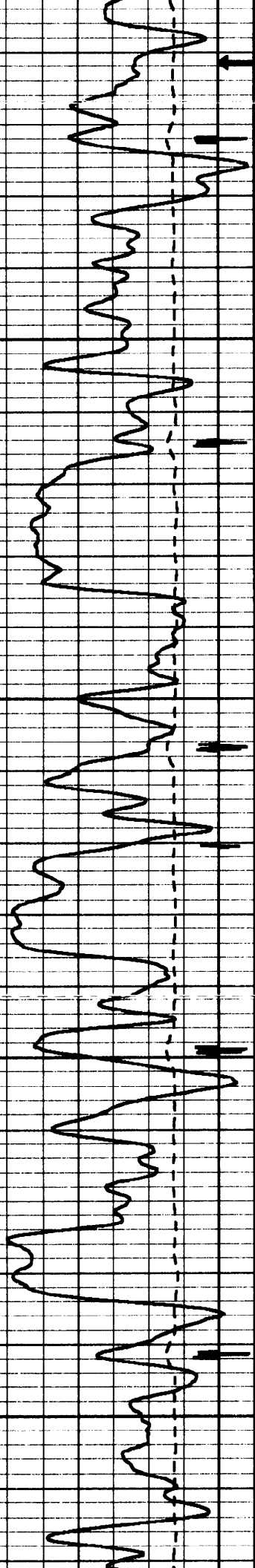
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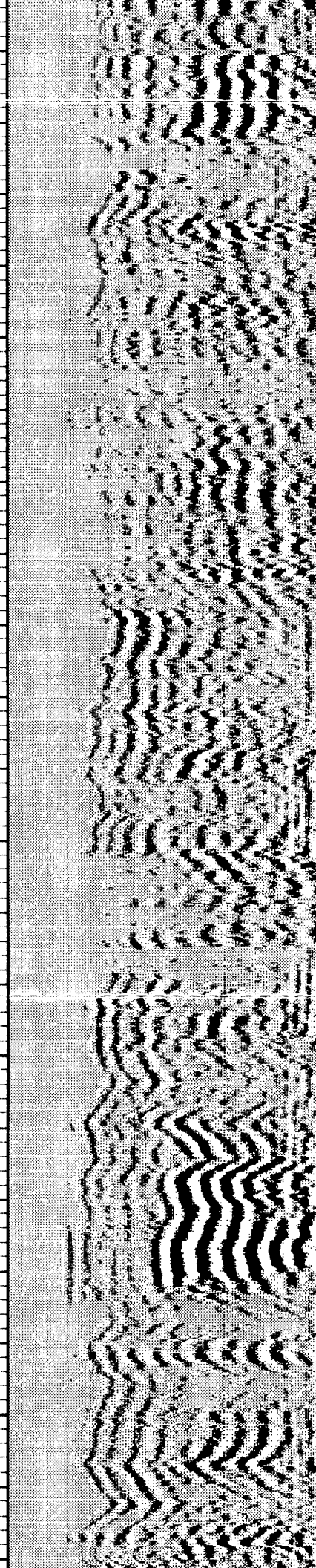
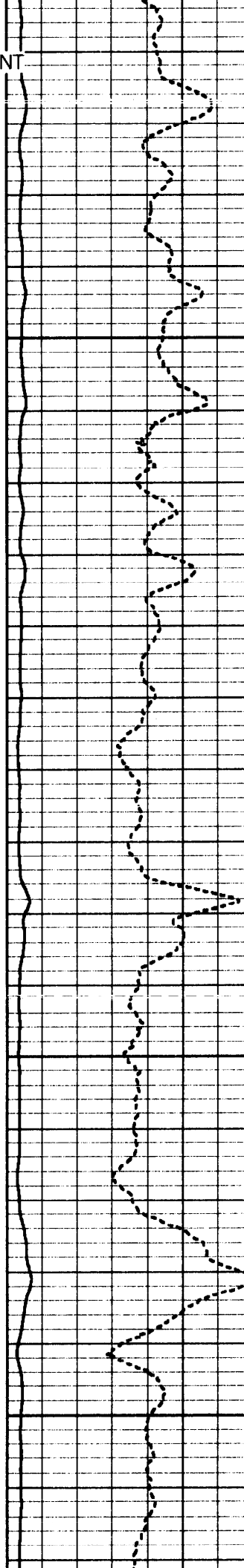


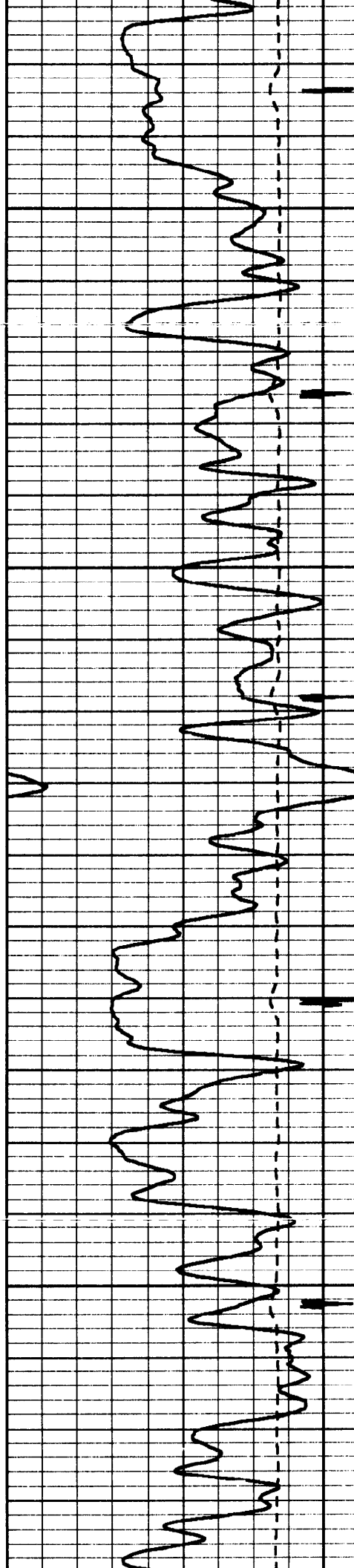
SHORT JOINT



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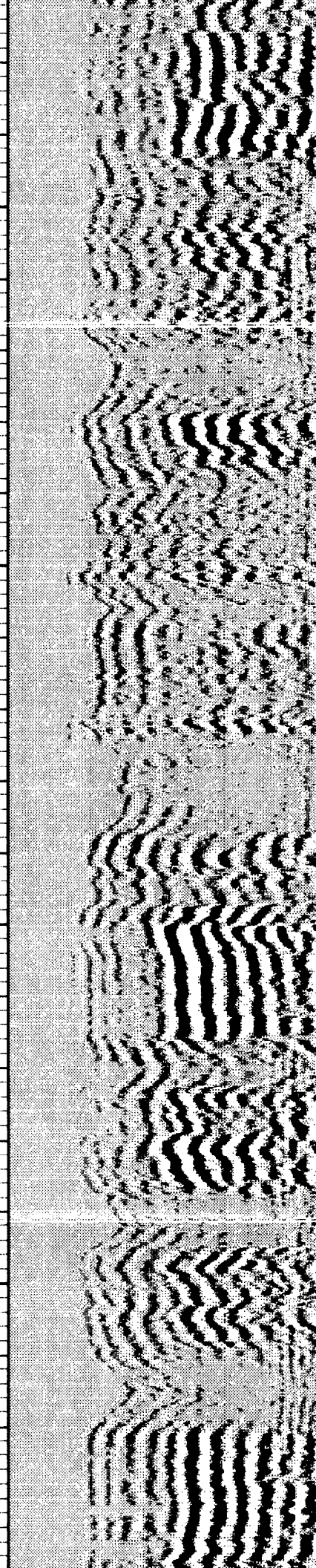
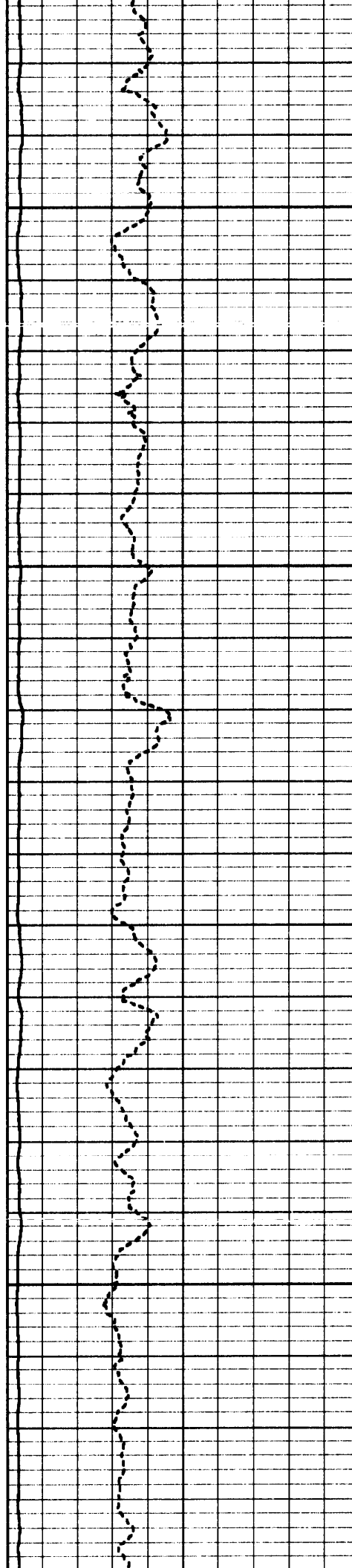
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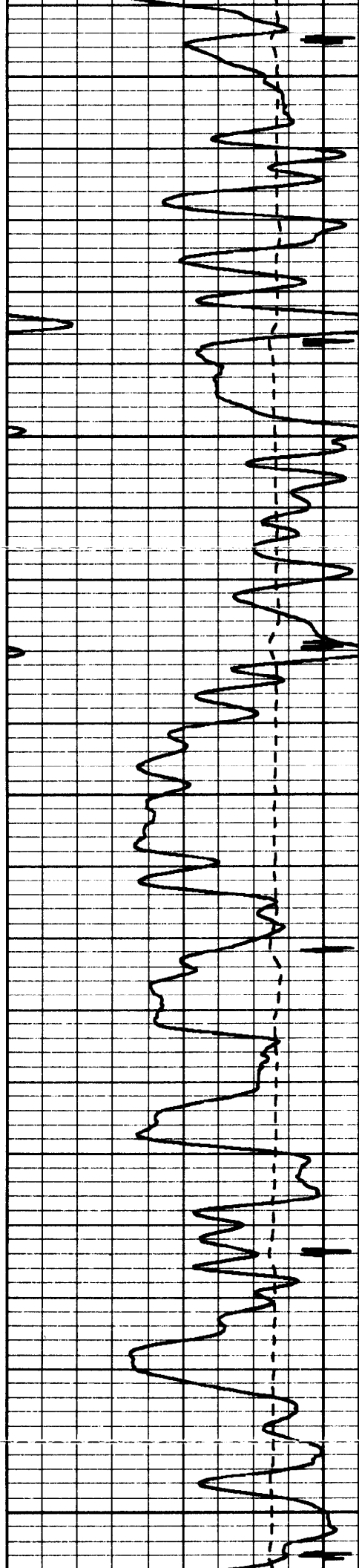




4300

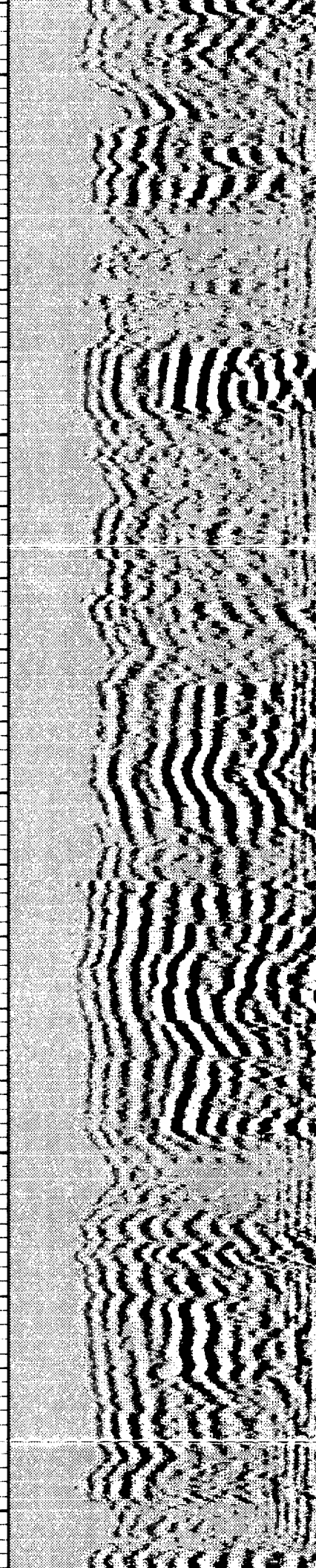
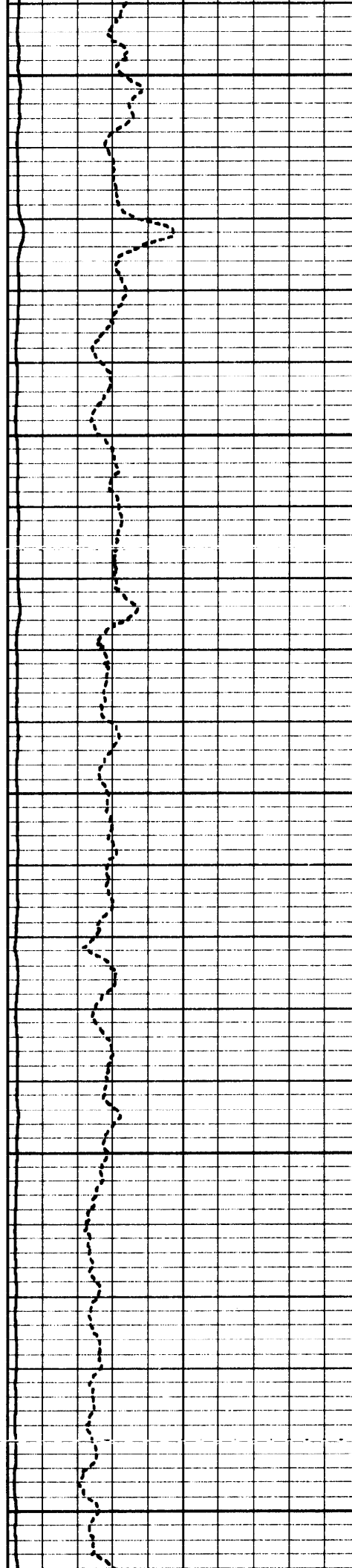
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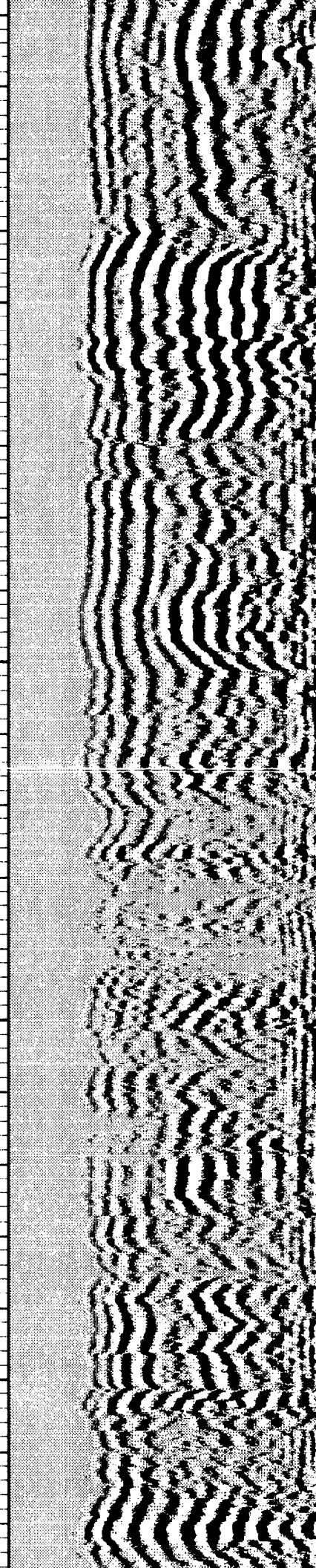
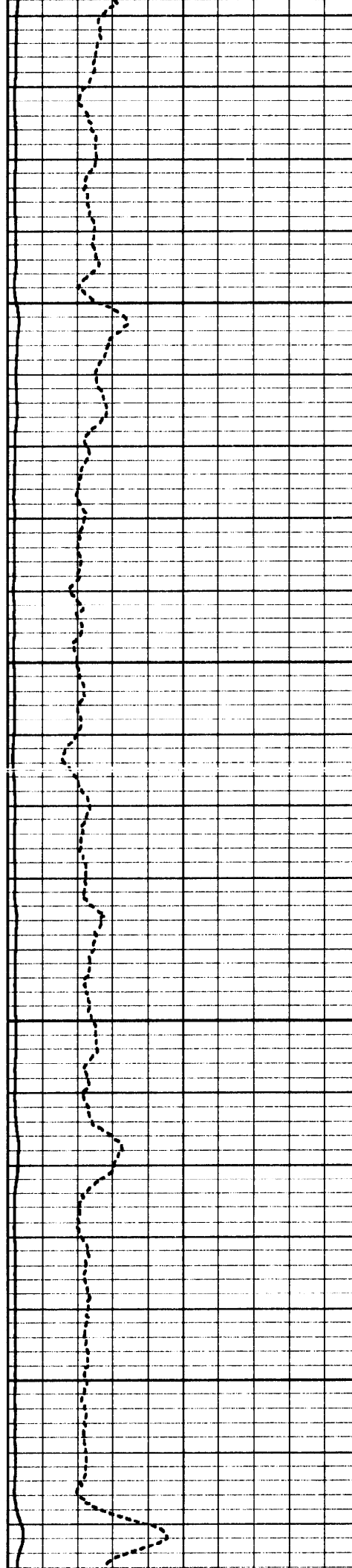
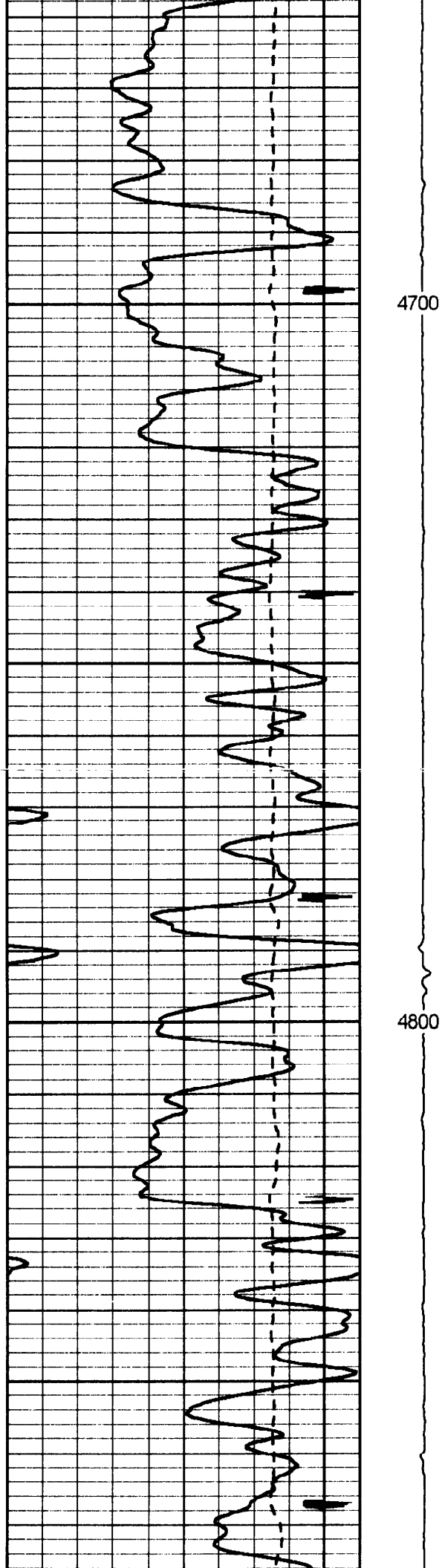


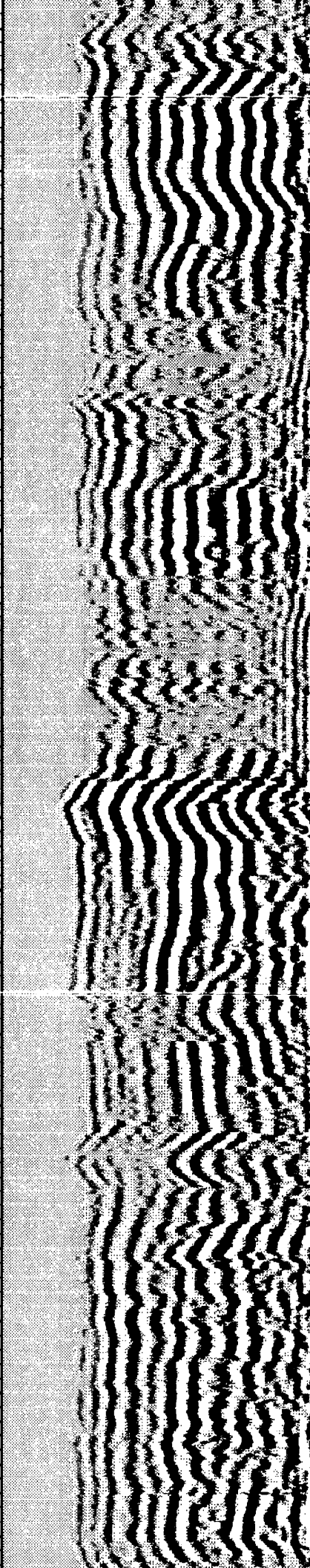
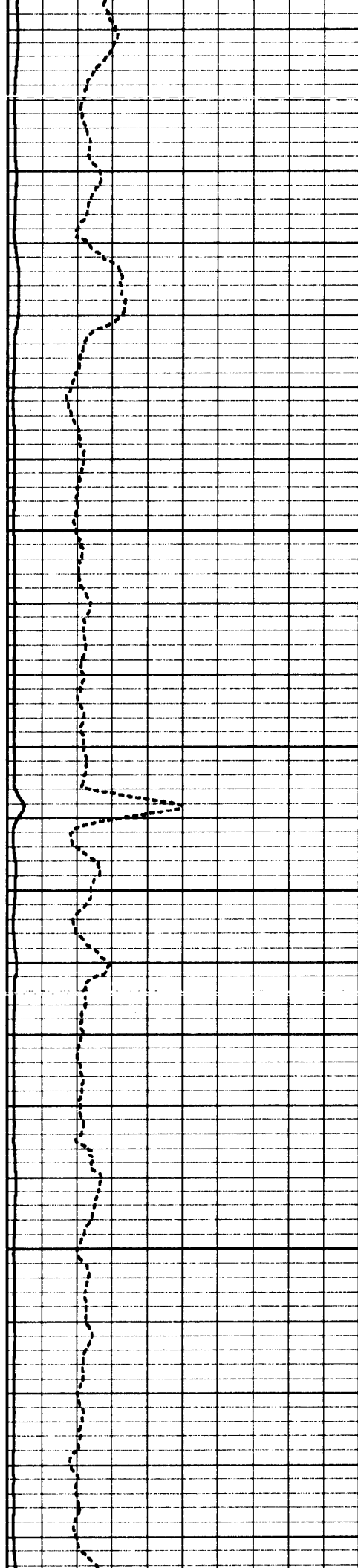
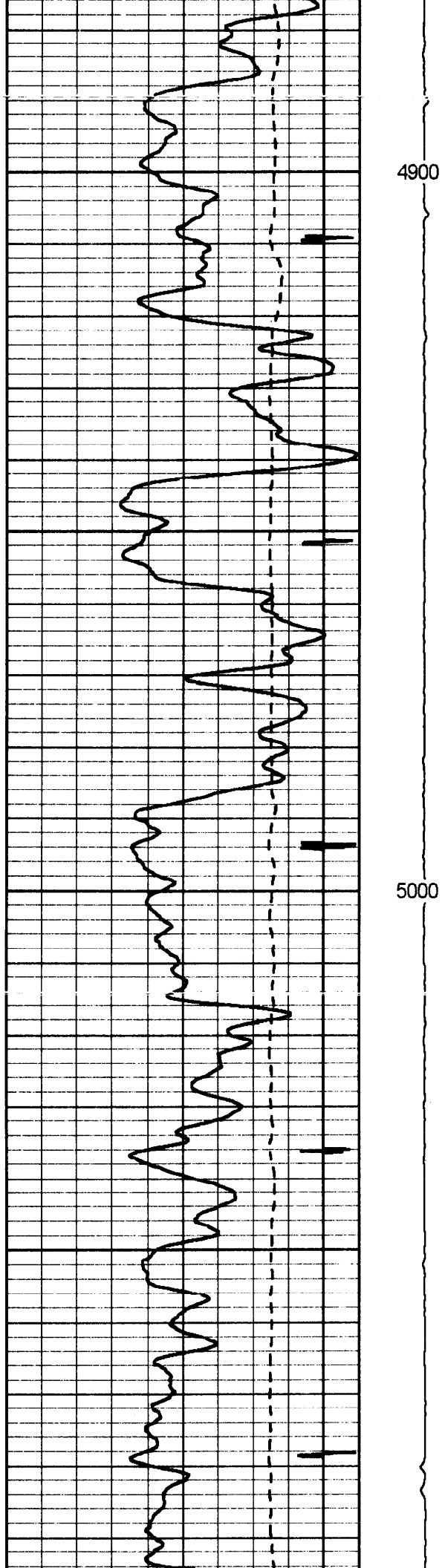


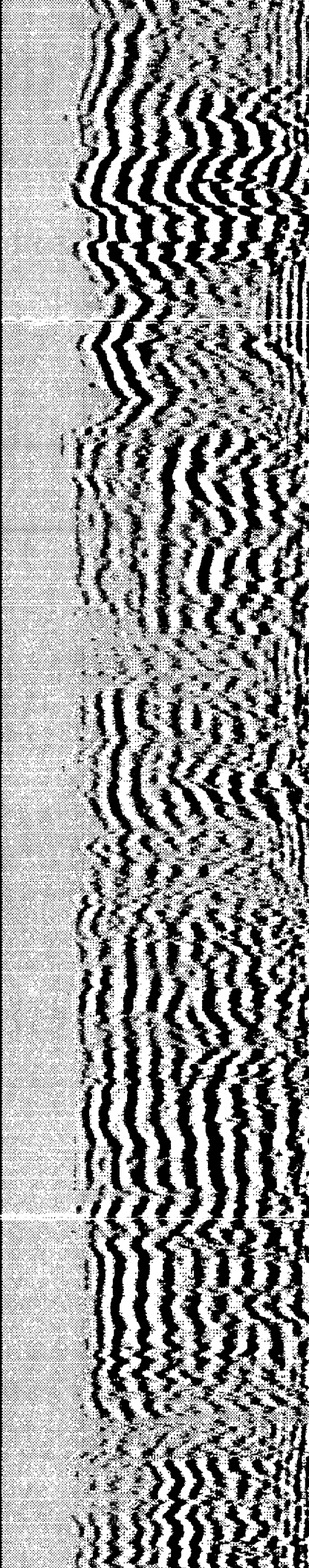
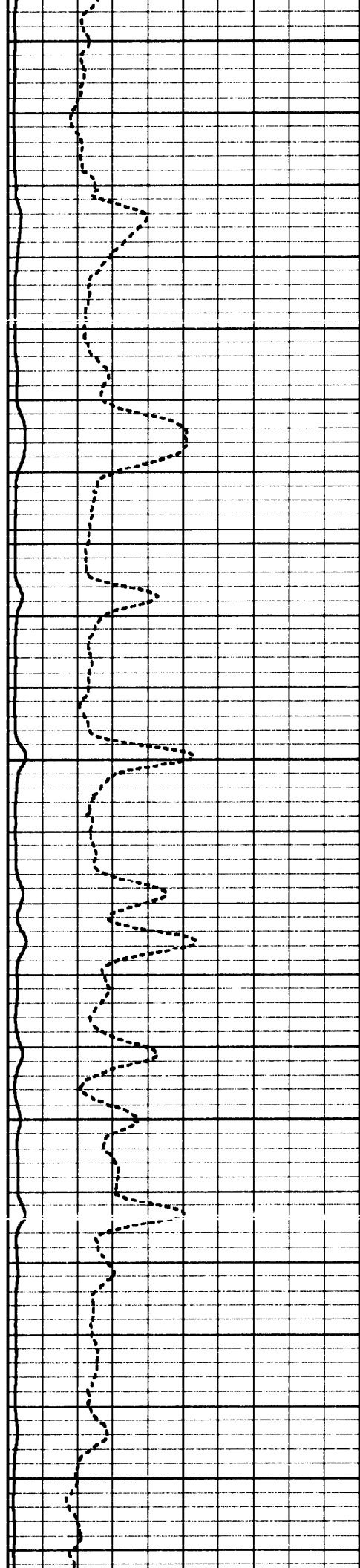
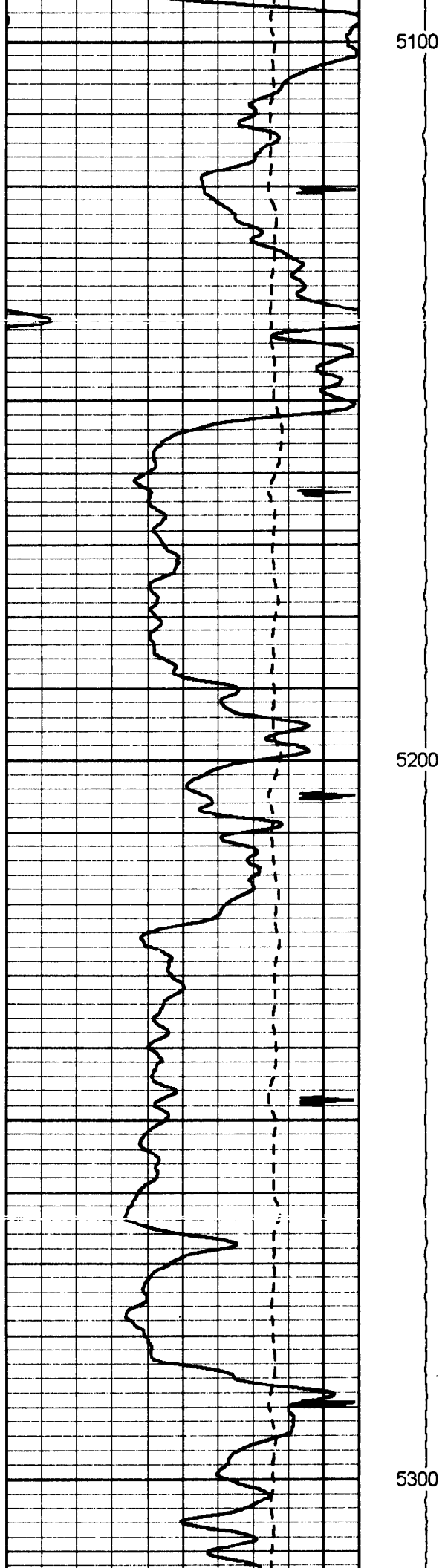
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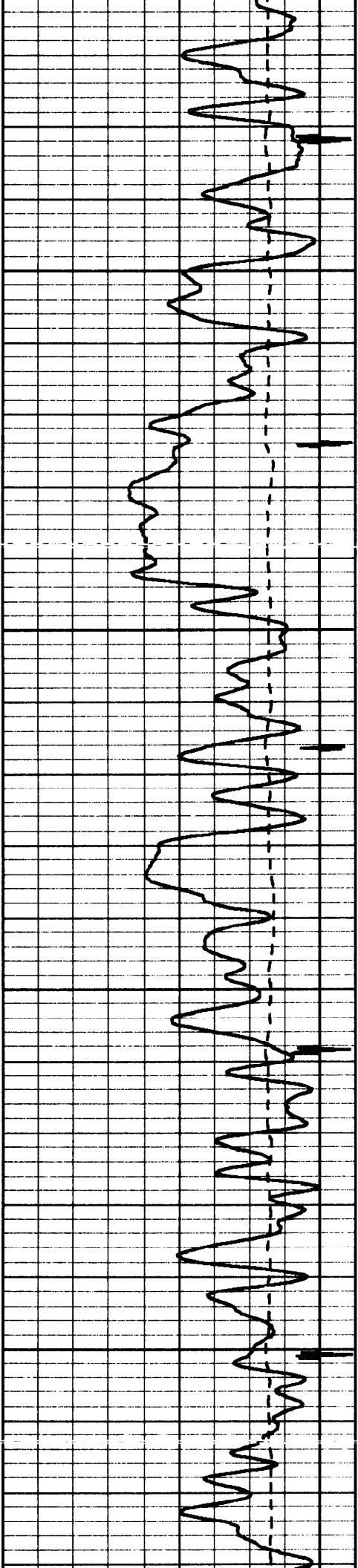
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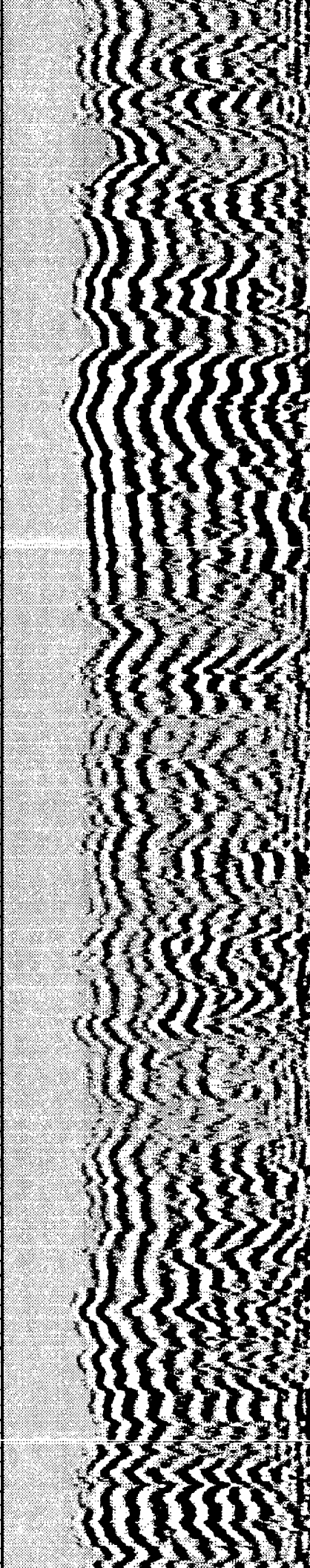
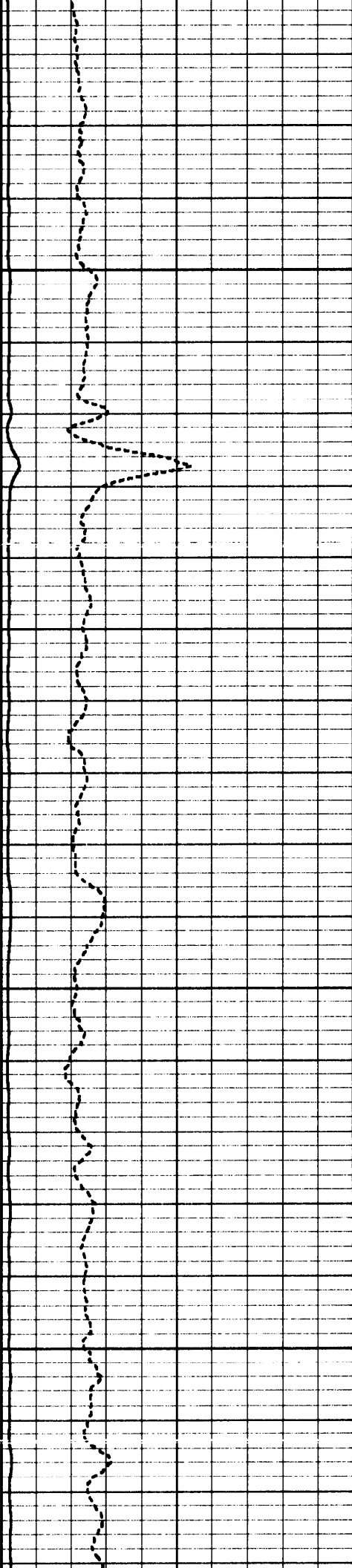


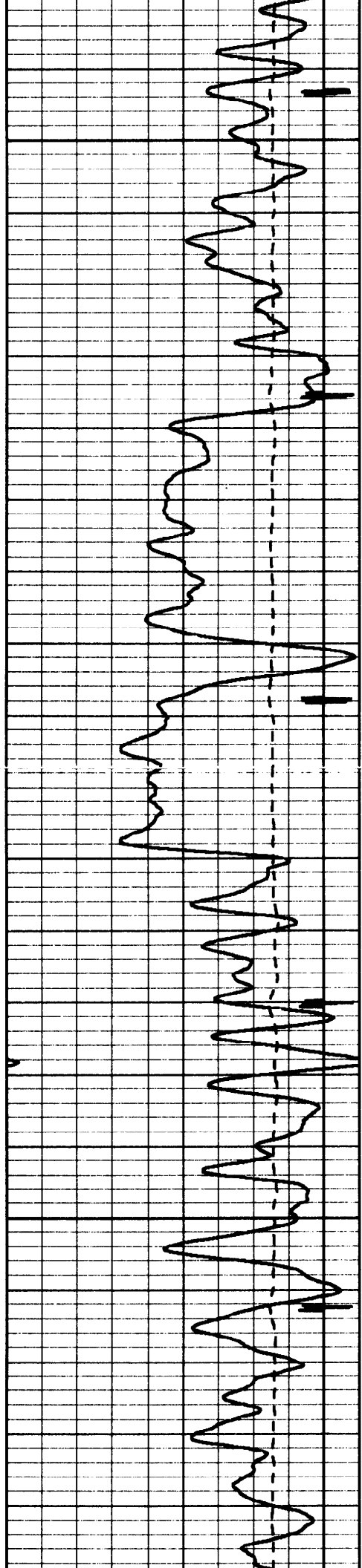




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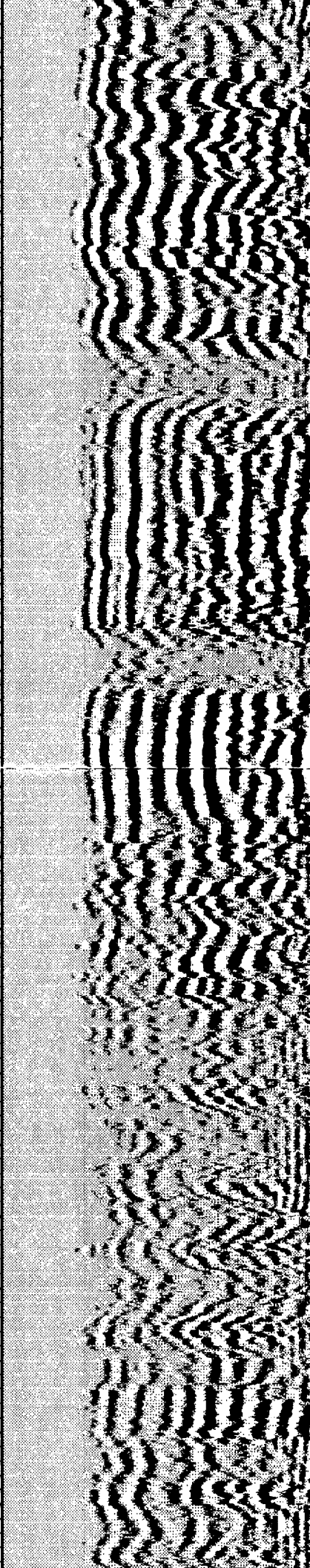
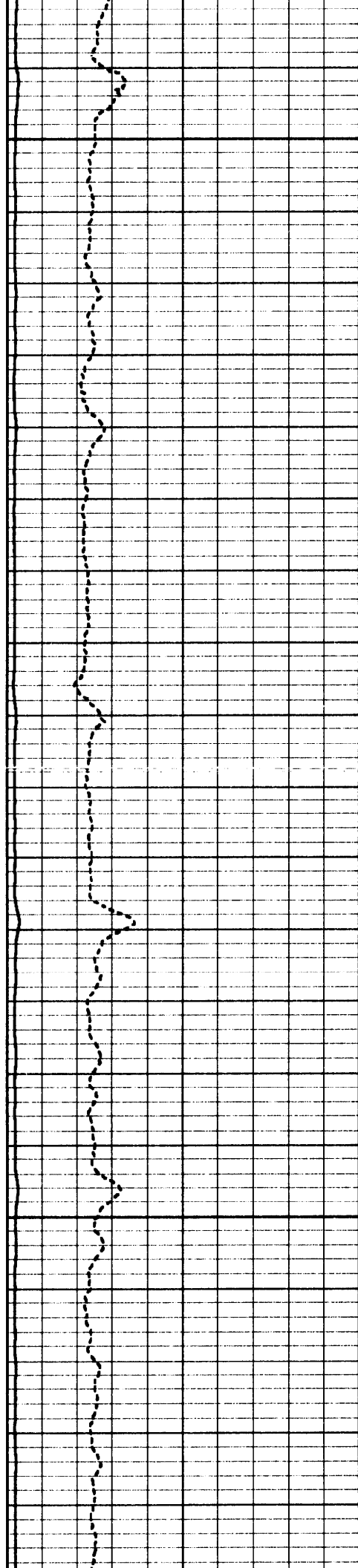
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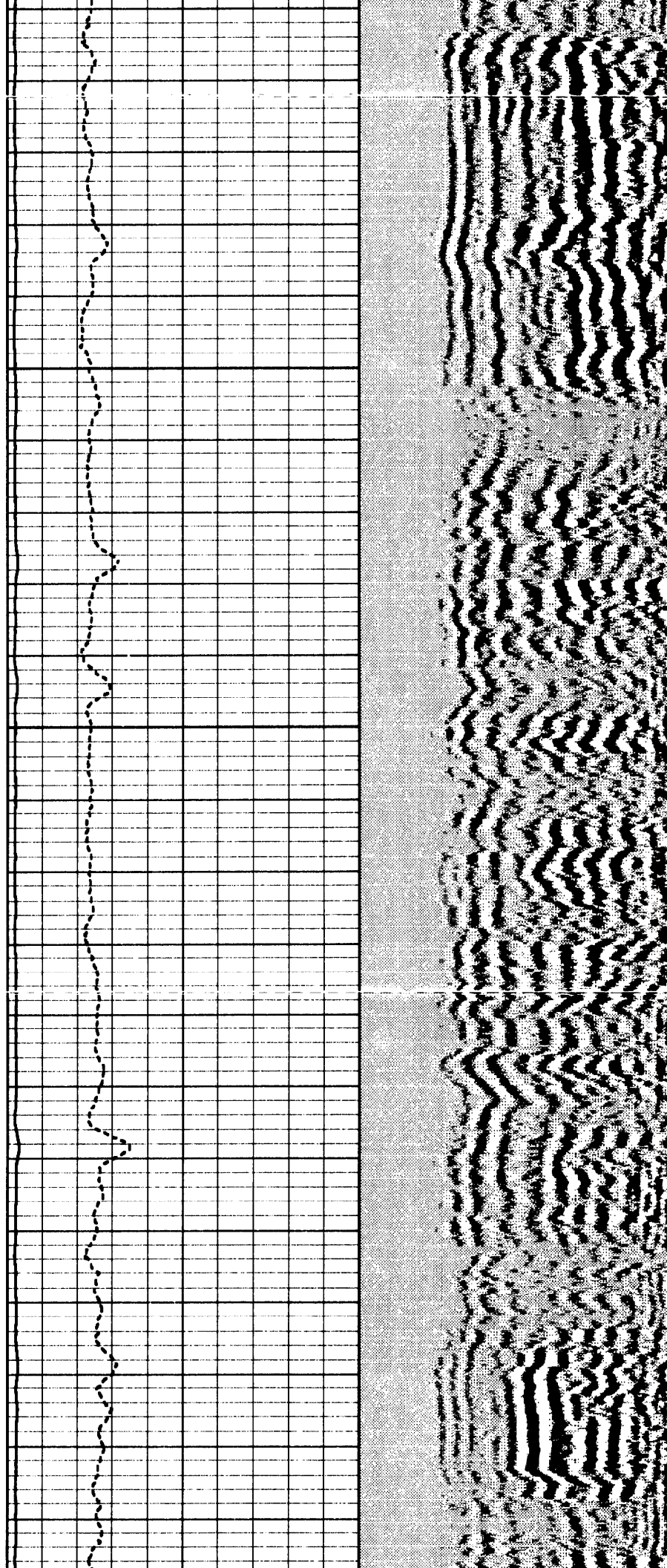
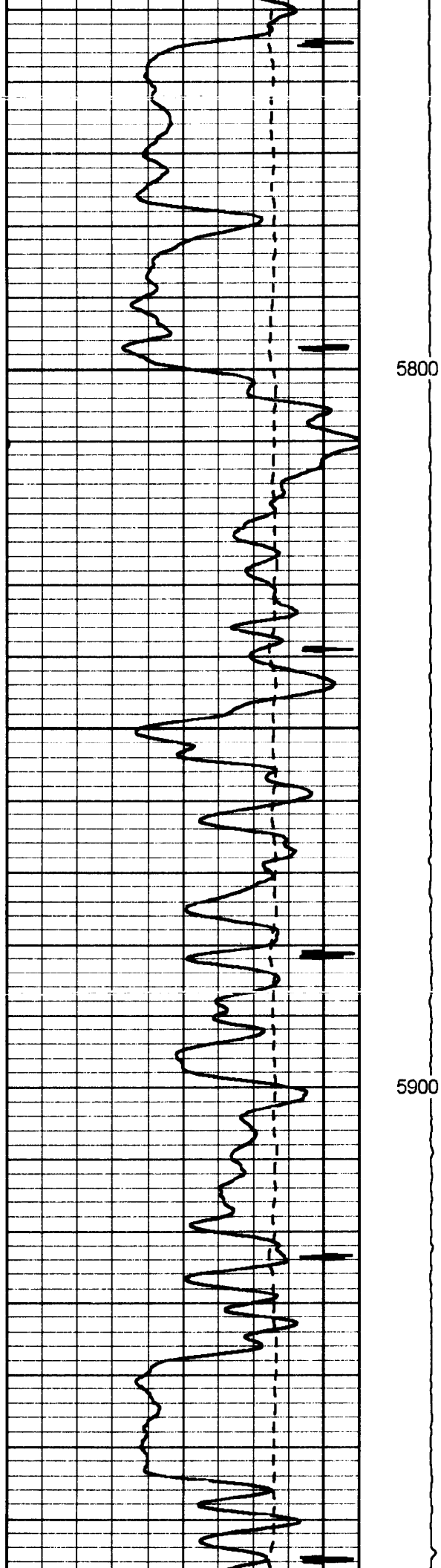


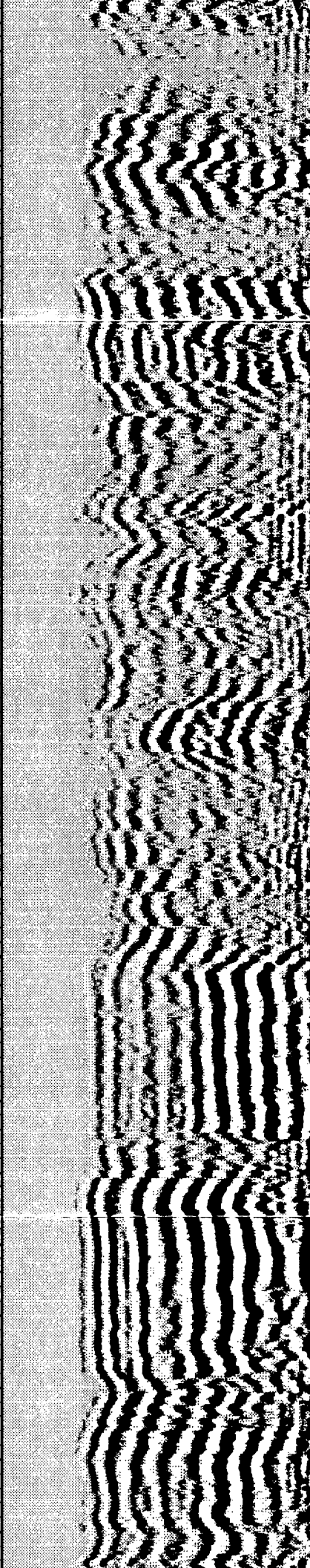
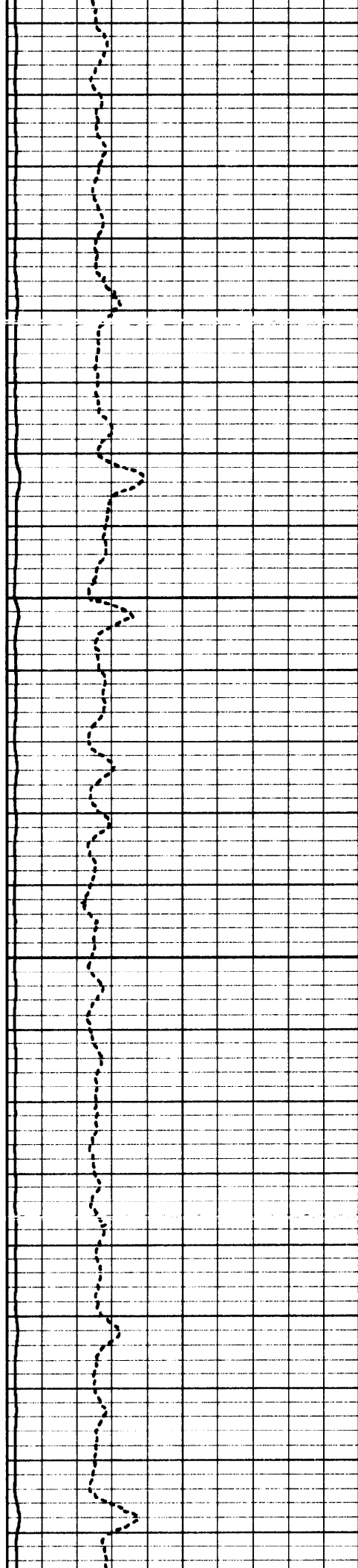
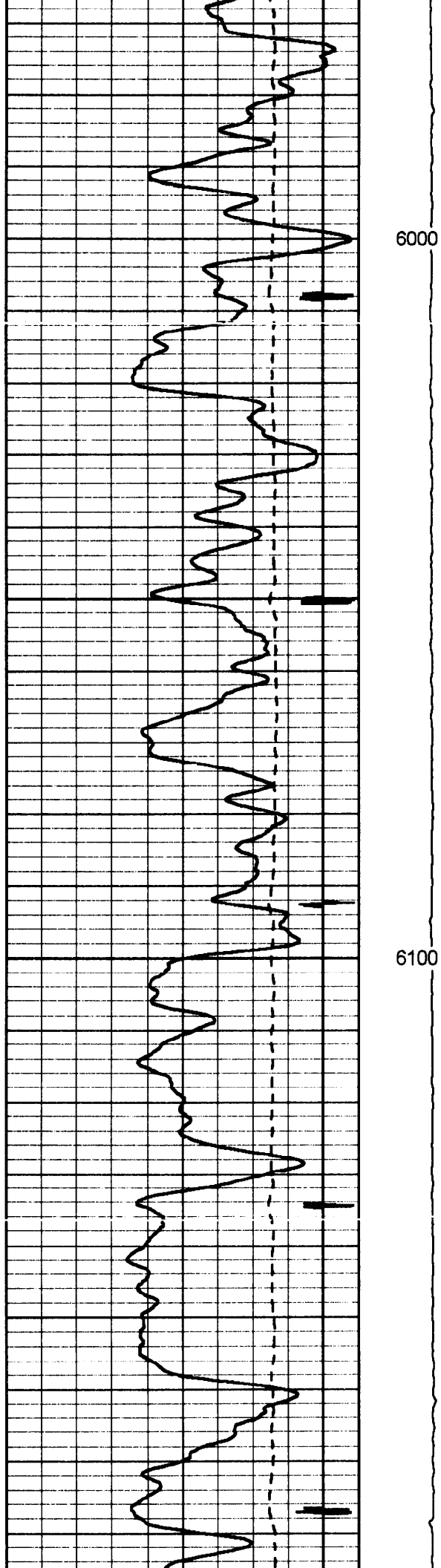


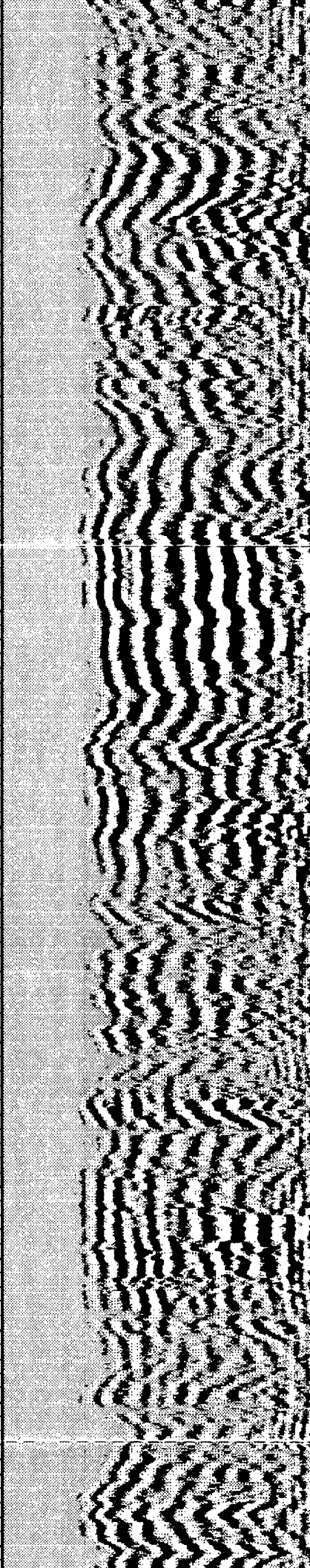
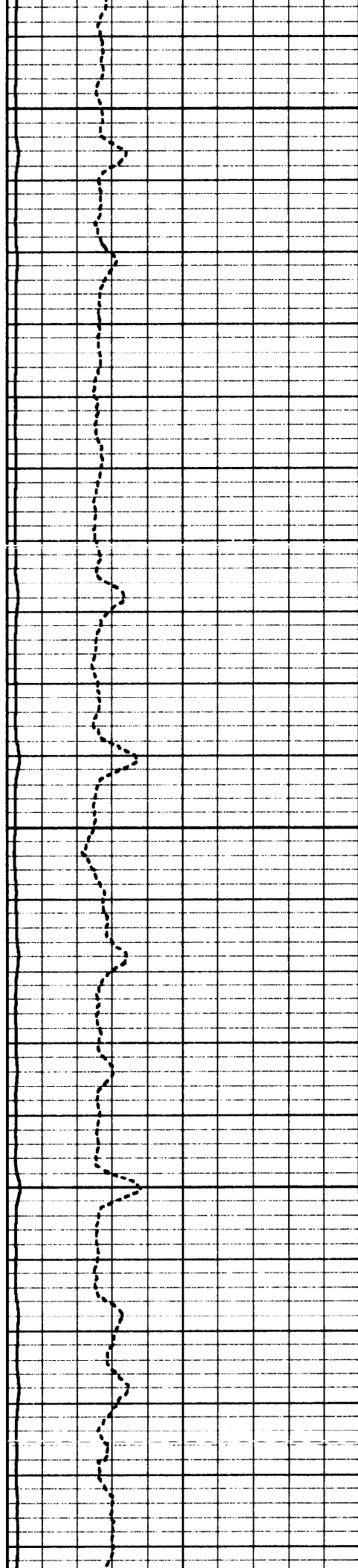
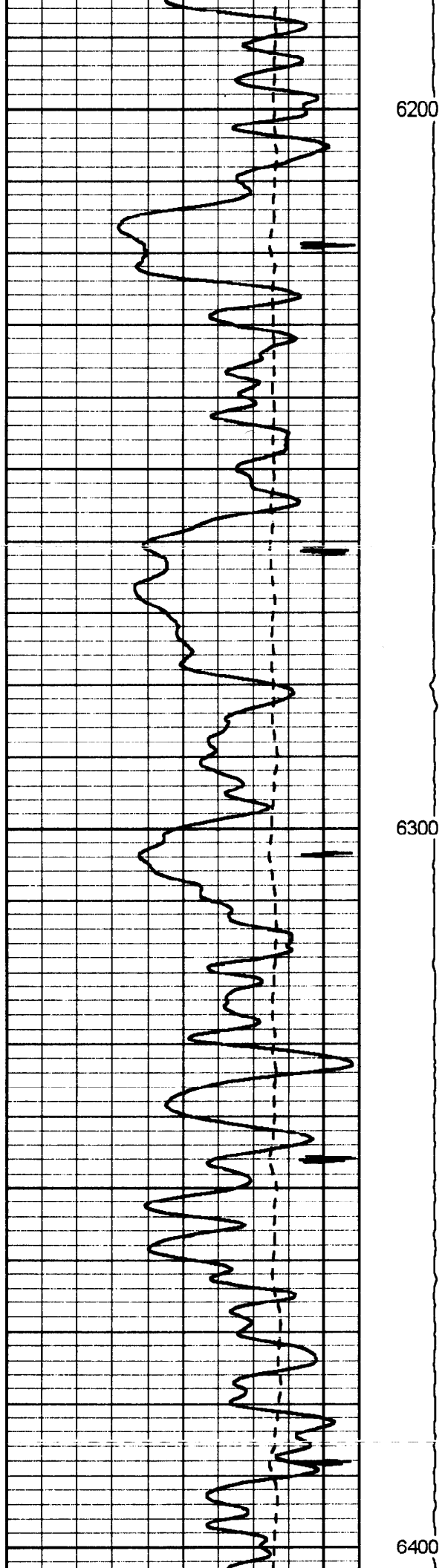
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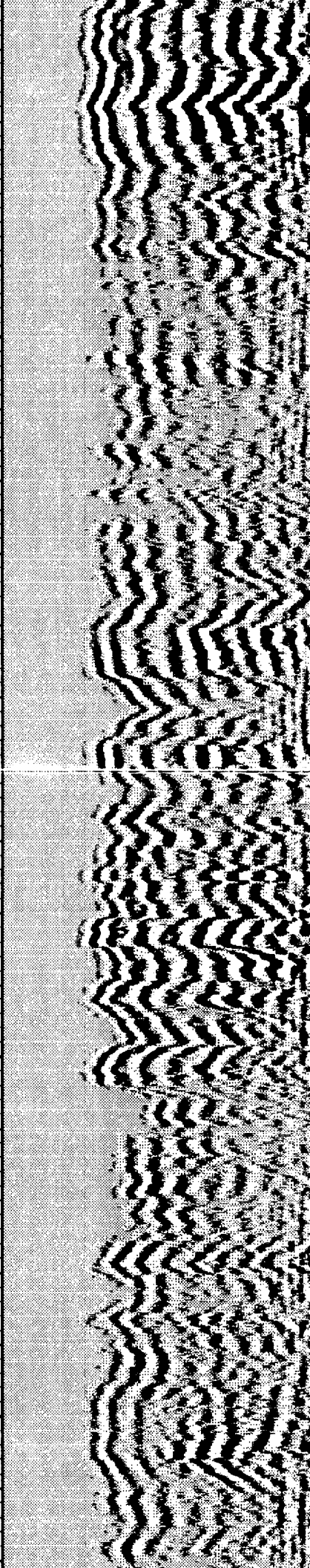
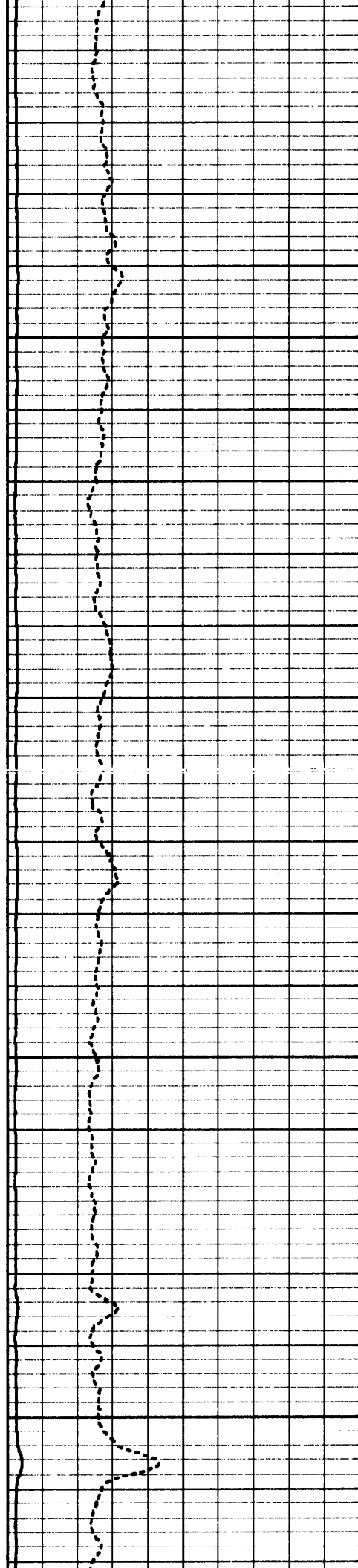
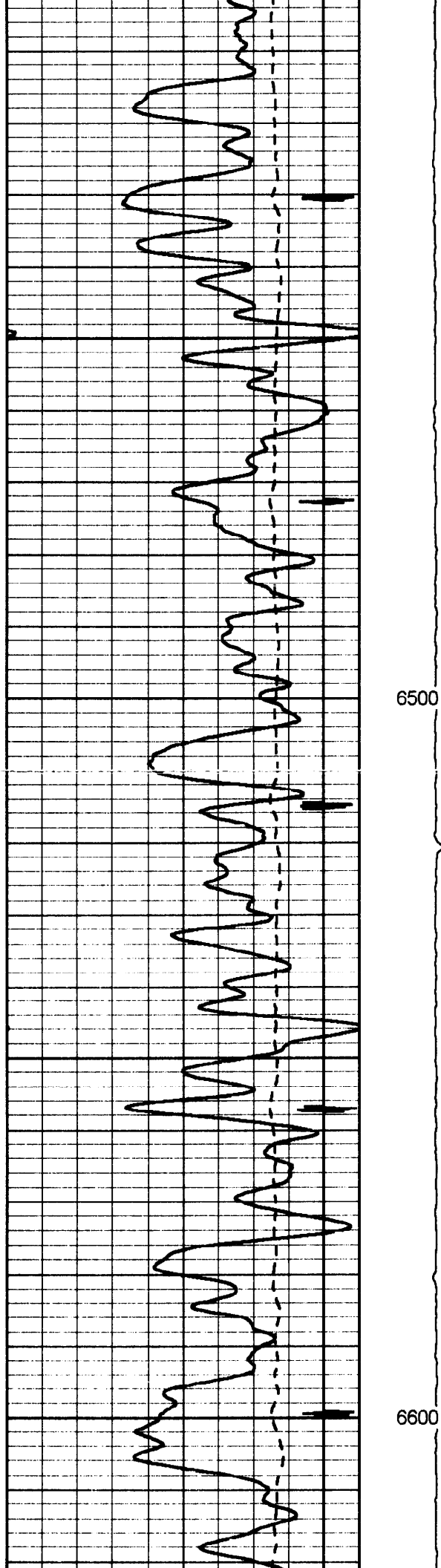
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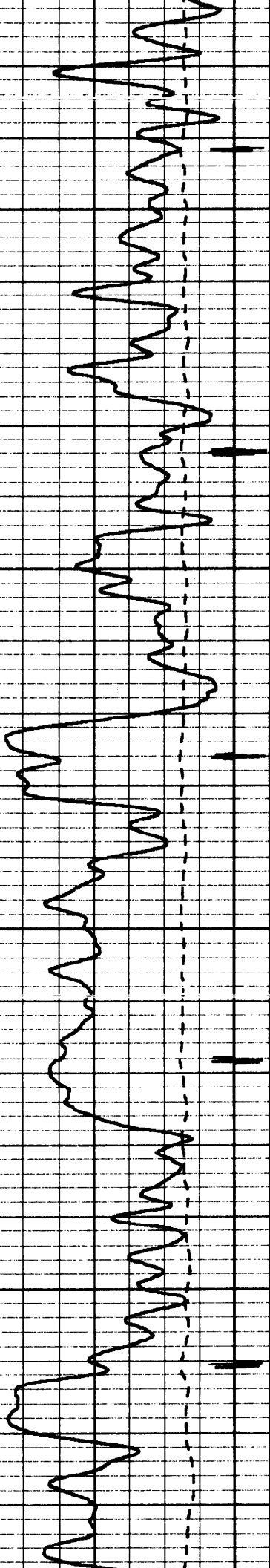






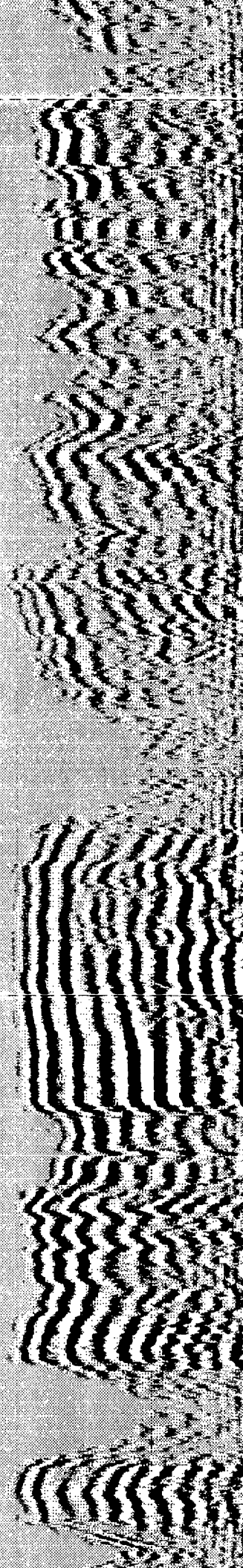
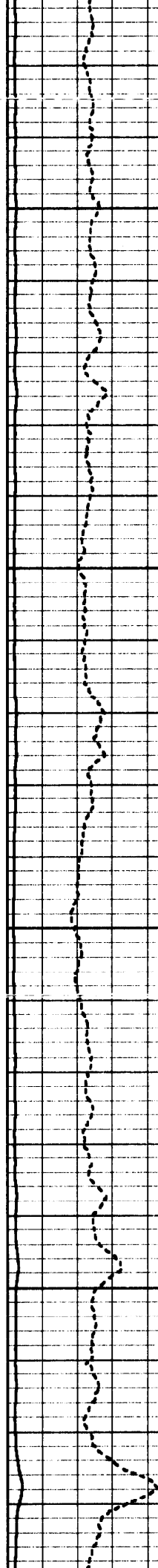


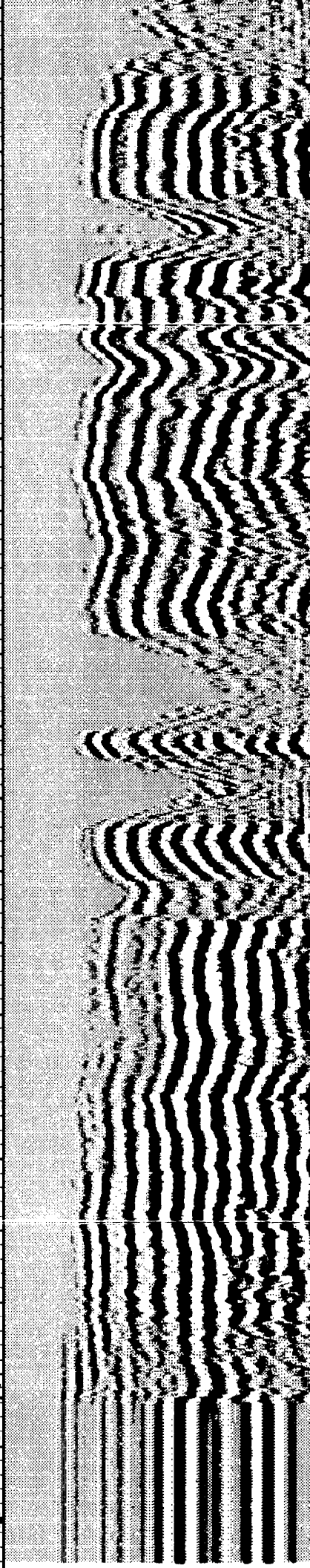
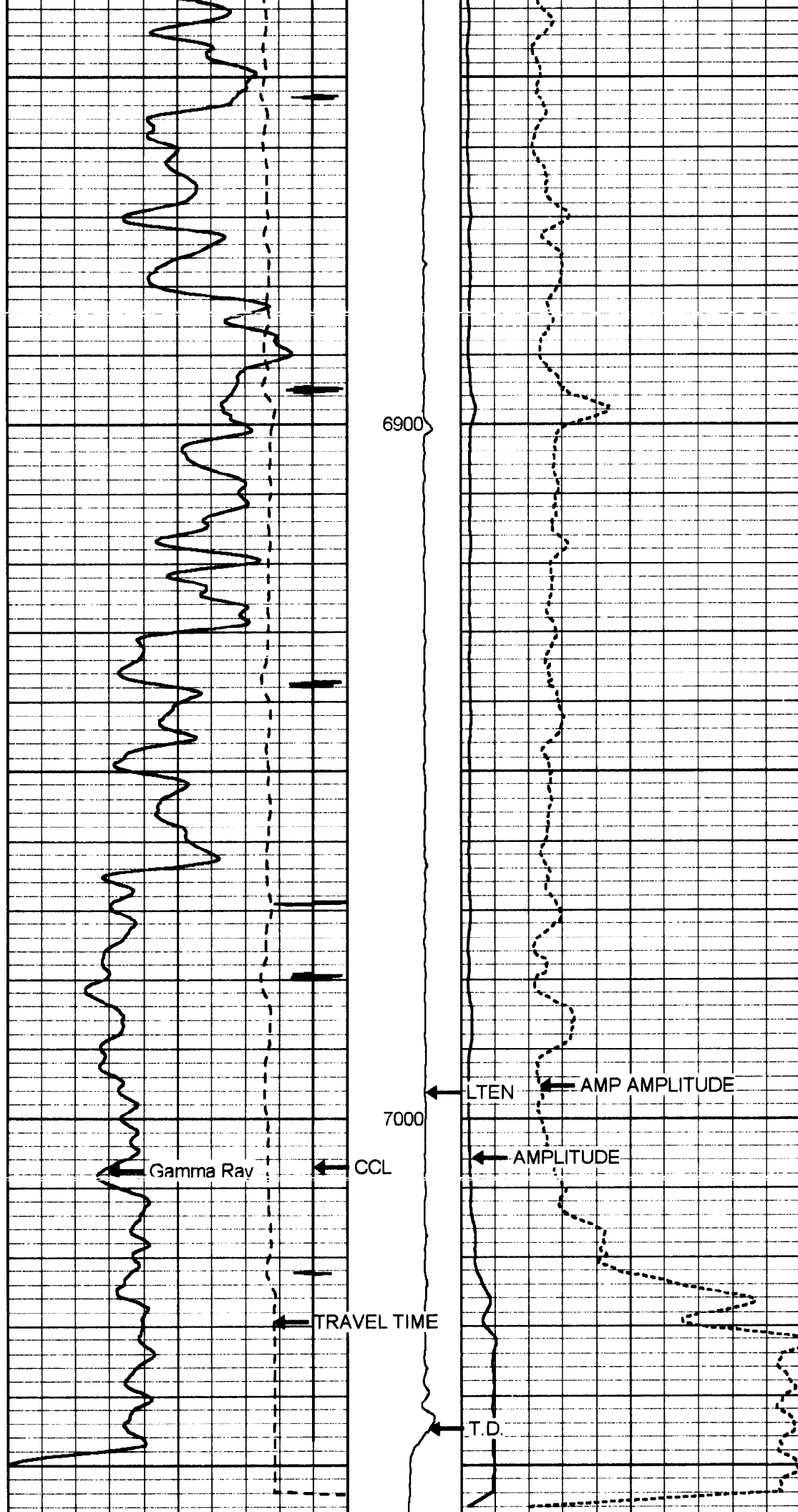




6700

6800





360	TRAVEL TIME (usec)	160	LTEN	0	AMP AMPLITUDE (mV)	10	200	MSG
-9	Collar Locator	1	(lb)2000	0	AMPLITUDE (mV)	100		
0	Gamma Ray (GAPI)	200						

HALLIBURTON

ACOUSTIC CEMENT BOND LOG

MAIN LOG SECTION
5"=100'

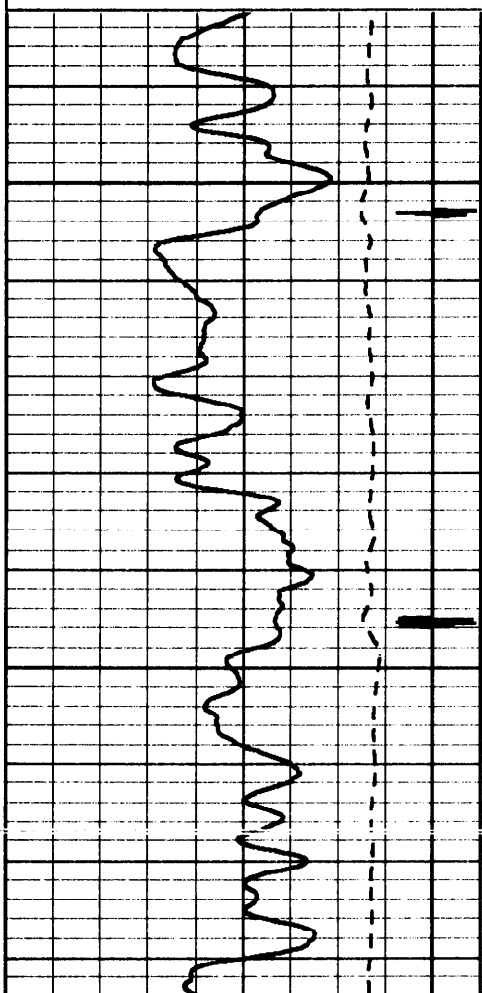
HALLIBURTON

ACOUSTIC CEMENT BOND LOG

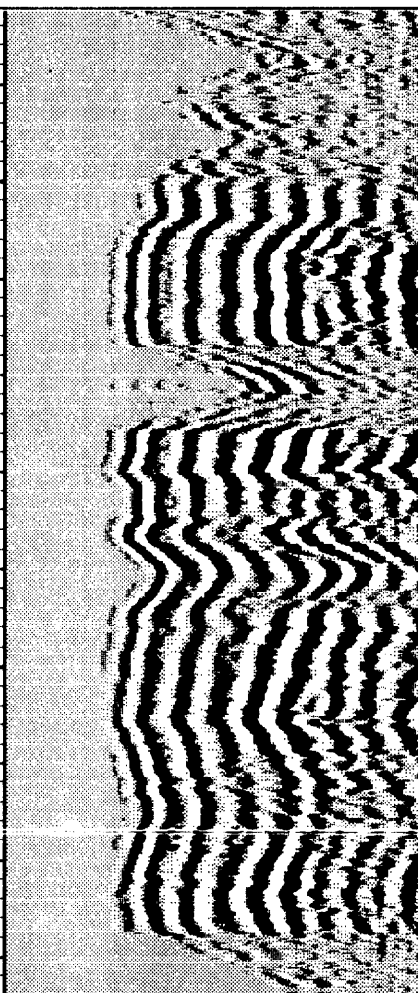
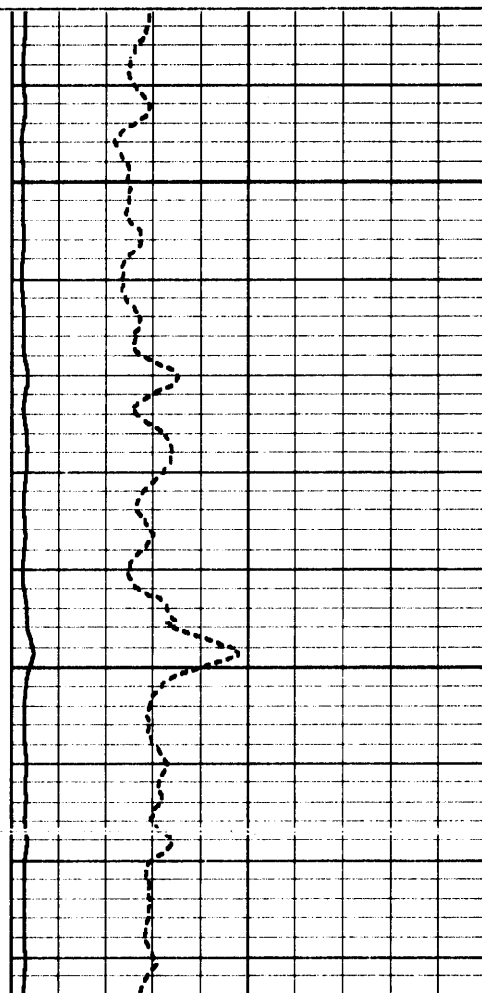
REPEAT LOG SECTION
5"=100'

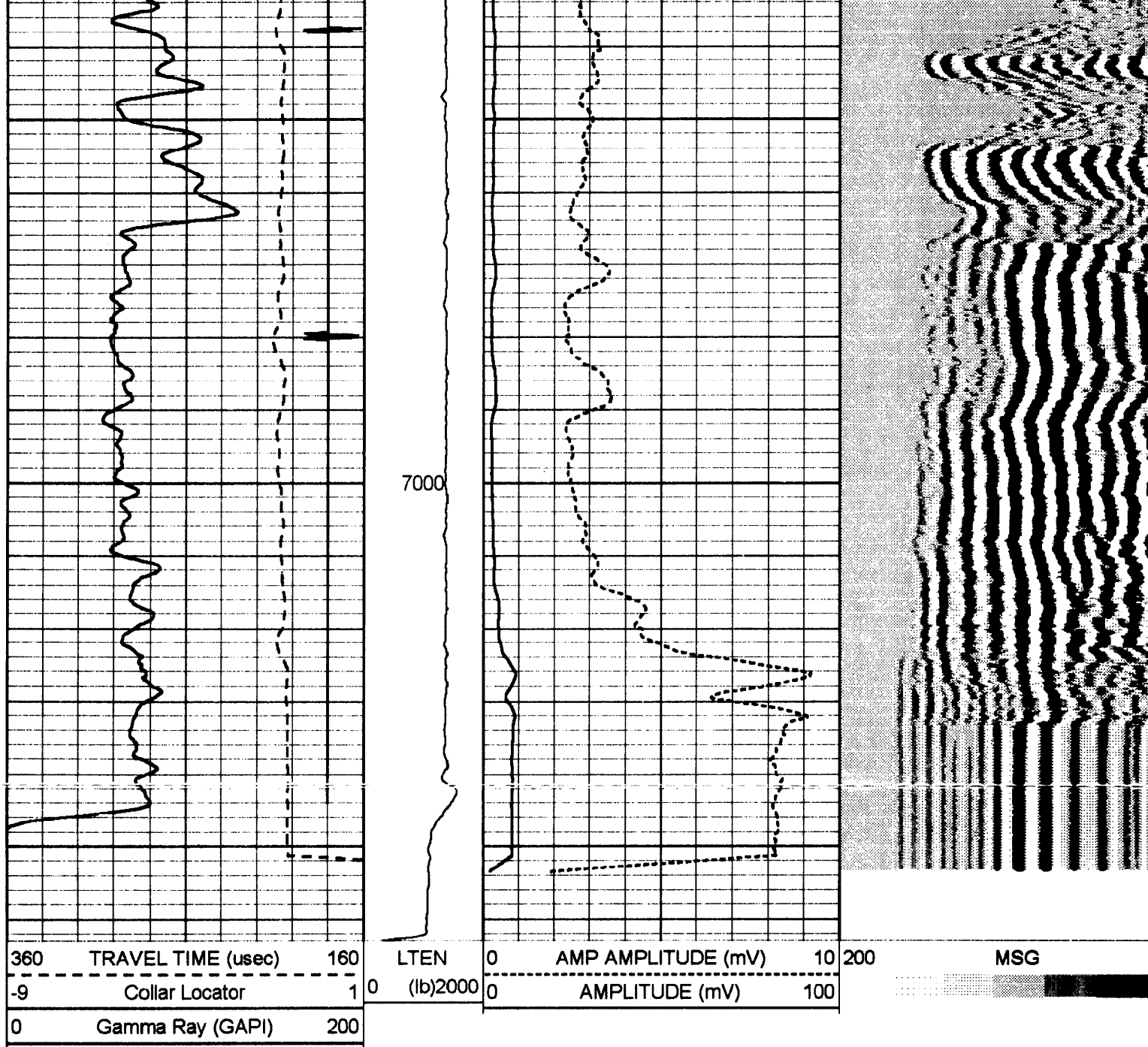
Database File: gm_239_36_cbl.db
 Dataset Pathname: G_VALLEY/GM_239_36/run1/REPEAT2
 Presentation Format: cbl_main
 Dataset Creation: Mon Dec 31 13:38:21 2007 by Log Halliburton Casedho
 Charted by: Depth in Feet scaled 1:240

360	TRAVEL TIME (usec)	160	LTEN	0	AMP AMPLITUDE (mV)	10	200	MSG
-9	Collar Locator	1	(lb)2000	0	AMPLITUDE (mV)	100		
0	Gamma Ray (GAPI)	200						



6900





HALLIBURTON

ACOUSTIC CEMENT BOND LOG

REPEAT LOG SECTION
5"=100'

HALLIBURTON

ACOUSTIC CEMENT BOND LOG

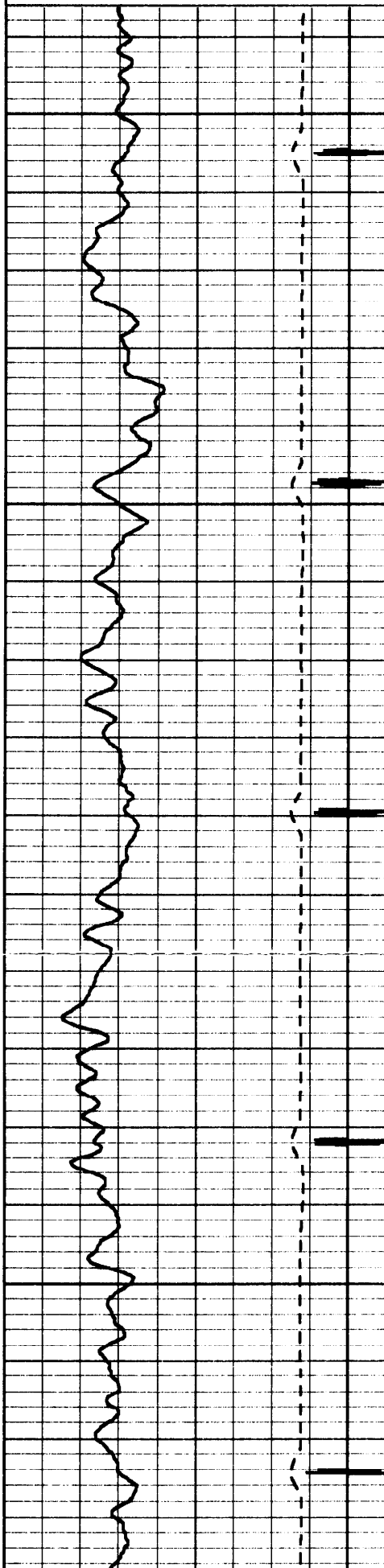
FREE PIPE LOG SECTION
5"=100'

Database File: gm_239_36_cbl.db
 Dataset Pathname: G_VALLEY/GM_239_36/run1/LGD2
 Presentation Format: cbl_main
 Dataset Creation: Mon Dec 31 13:00:53 2007 by Log Halliburton Casedho
 Charted by: Depth in Feet scaled 1:240

360	TRAVEL TIME (usec)	160	LTEN	0	AMP AMPLITUDE (mV)	10	200	MSG
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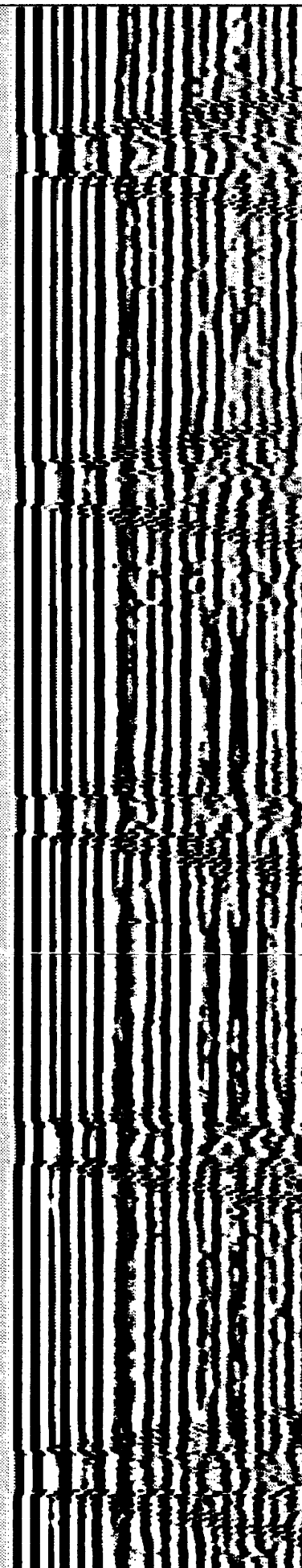
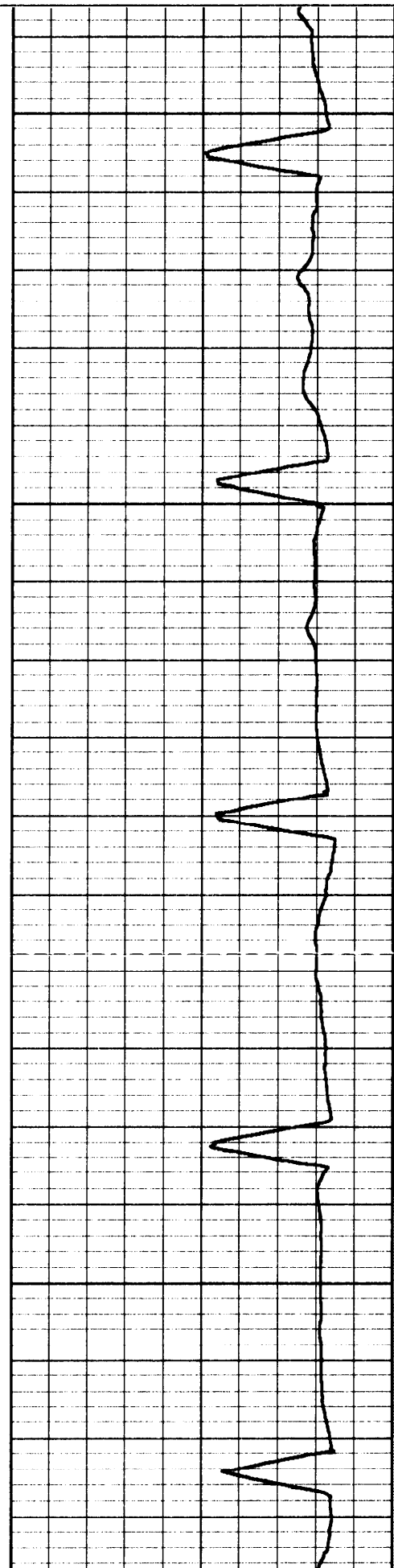
000	TRAVEL TIME (secs)	100
-9	Collar Locator	10
0	Gamma Ray (GAPI)	200

0	AMPLITUDE (mV)	10
0	AMPLITUDE (mV)	100



500

600



360	TRAVEL TIME (usec)	160	LTEN	0	AMP AMPLITUDE (mV)	10	200	MSG
-9	Collar Locator	1	(lb)2000	0	AMPLITUDE (mV)	100		
0	Gamma Ray (GAPI)	200						

HALLIBURTON

ACOUSTIC CEMENT BOND LOG

FREE LOG SECTION
5"=100'

Calibration Report

Database File: gm_239_36_cbl.db
 Dataset Pathname: G_VALLEY/GM_239_36/run1/MAIN_CBL
 Dataset Creation: Mon Dec 31 15:30:28 2007

Gamma Ray Calibration Report

Serial Number: 641
 Tool Model: CBL_DC
 Performed: Mon Dec 31 13:00:49 2007

Calibrator Value: 252.0 GAPI

Background Reading: 67.7 cps
 Calibrator Reading: 271.5 cps

Sensitivity: 0.8600 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 641
 Tool Model: CBL_DC

Calibration Casing Diameter: 4.500 in
 Calibration Depth: 645.353 ft

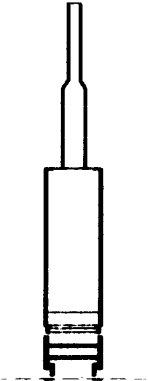
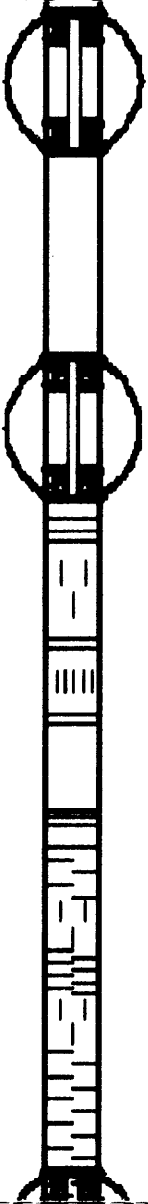
Master Calibration, performed Mon Dec 31 13:00:12 2007:

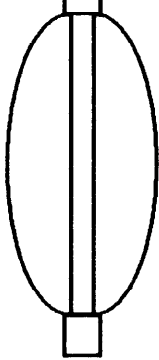
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.017	1.472	2.000	82.000	48.476	1.079
CAL						
5'	0.005	1.141	2.000	82.000	70.422	1.642

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL						

	Raw (v)		Calibrated (v)		Results
	Zero		Zero		Offset
3'	0.000		0.000		0.000
5'	0.000		0.000		0.000

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)	
			_HAL HAL Cable Head	1.92	1.44	10.0	
			_CBL_DC		1.92	3.25	5.0
CCL	19.00						
GR	16.83						
			_CBT_CBL_DC-CBL_DC (641) G-Type 3 1/4" Standard CBL TOOL	16.08	3.25	200.0	
WVF3FT	10.59						
WVF5FT	9.59						
WVF5FT	9.59						
WVF5FT	9.59						
WVFSYNC	4.50						



JLATCH

4.50

3.38

50.0

LLMTEN

0.00

Dataset: gm_239_36_cbl.db: G_VALLEY/GM_239_36/run1/MAIN_CBL
 Total Length: 24.42 ft
 Total Weight: 265.00 lb
 O.D. 3.38 in

Company **WILLIAMS PRODUCTION CO**

Well **GM 239-36**

Field **GRAND VALLEY**

County **GARFIELD**

State **CO**

HALLIBURTON

**ACOUSTIC CEMENT
BOND LOG**