

ACOUSTIC CEMENT BOND LOG

<<< 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 ANY OTHER 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. CORRELATED TO HES OPEN HOLE LOG DATED 15 MAY 08. SHORT JOINT AT: 4888' - 4909'. YOUR CREW TODAY: K. HOLLIDAY & A.KODAH ****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

COLLAR LOCATOR		GAMMA RAY		CBL				
Run No.	ONE	Run No.	ONE	Run No.	ONE	Run No.		
Serial No.	482	Serial No.	482	Serial No.	482	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	8266'	3200'	0 PSI	65	MAIN LOG SECTION			
	8266'	7900'	0 PSI	65	REPEAT LOG SECTION			
	COLLAR LOCATOR		GAMMA RAY		AMPLITUDE			
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	R
ONE	-9	1	0	200	0	100		
DIRECTIONAL INFORMATION								
Maximum Deviation			deg. @		KOP			

ACOUSTIC CEMENT BOND LOG

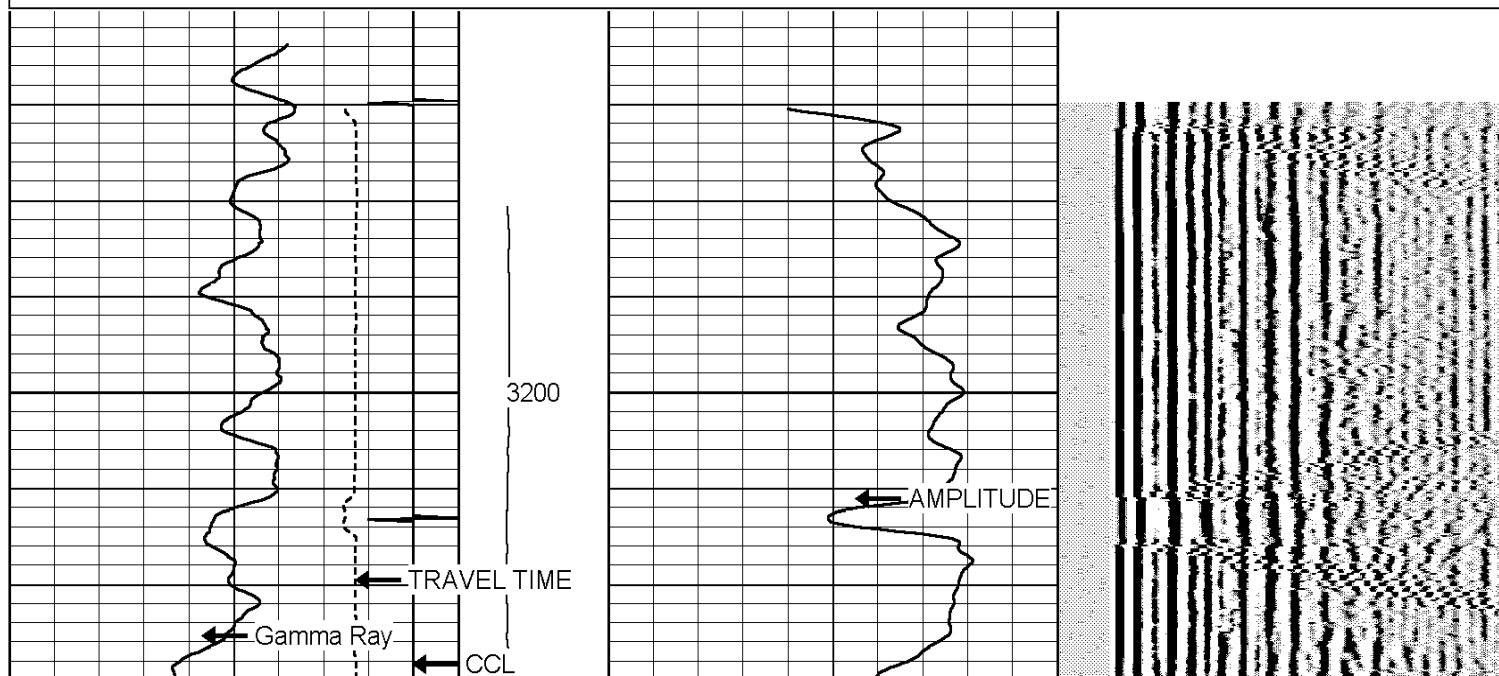
HALLIBURTON

MAIN LOG SECTION

5"=100'

Database File: rwf_324_32_cbl.db
Dataset Pathname: RULISON/RWF_324_3/run1/MAIN_CBL
Presentation Format: cbl_main
Dataset Creation: Wed Jun 04 13:00:34 2008
Charted by: Depth in Feet scaled 1:240

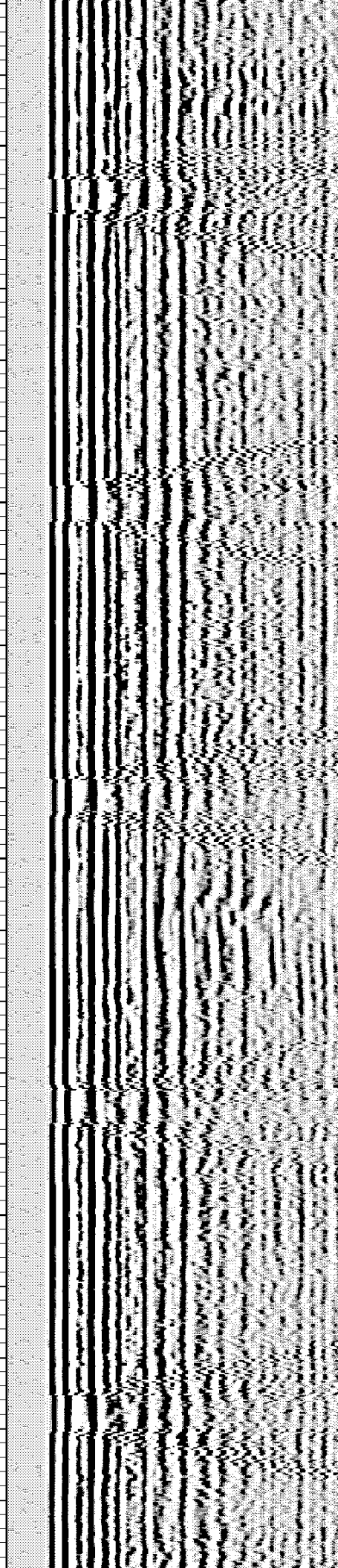
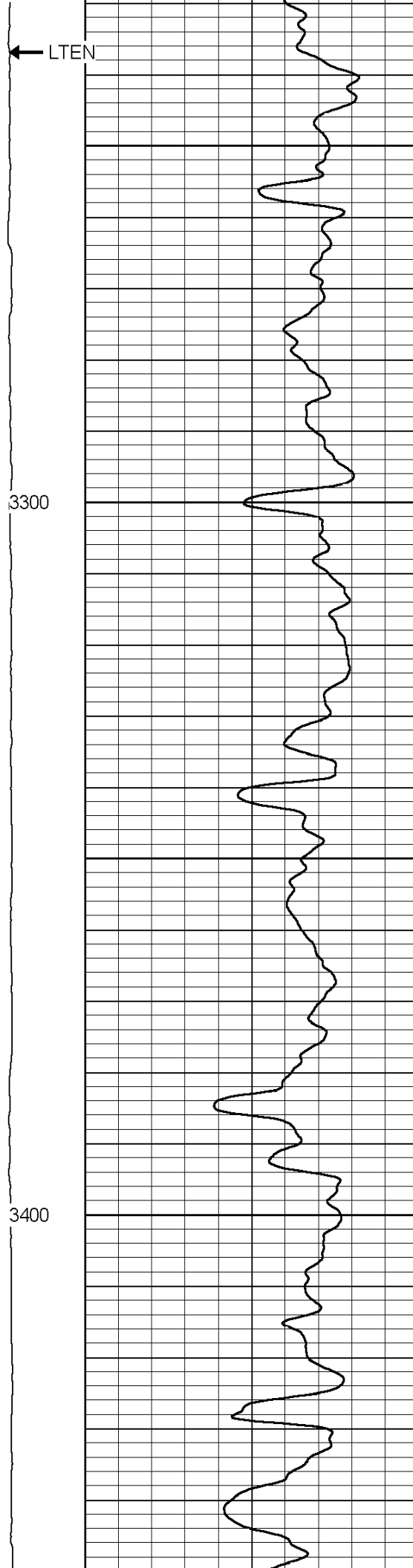
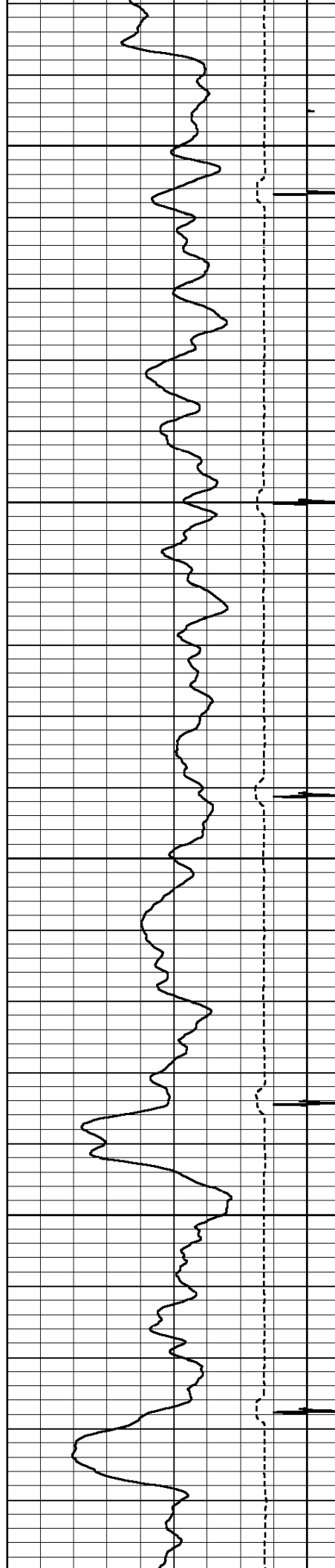
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0	Gamma Ray (GAPI)	200	0 (lb)3000	0	AMPLITUDE (mV)	100			
-9	CCL	1							



LTEN

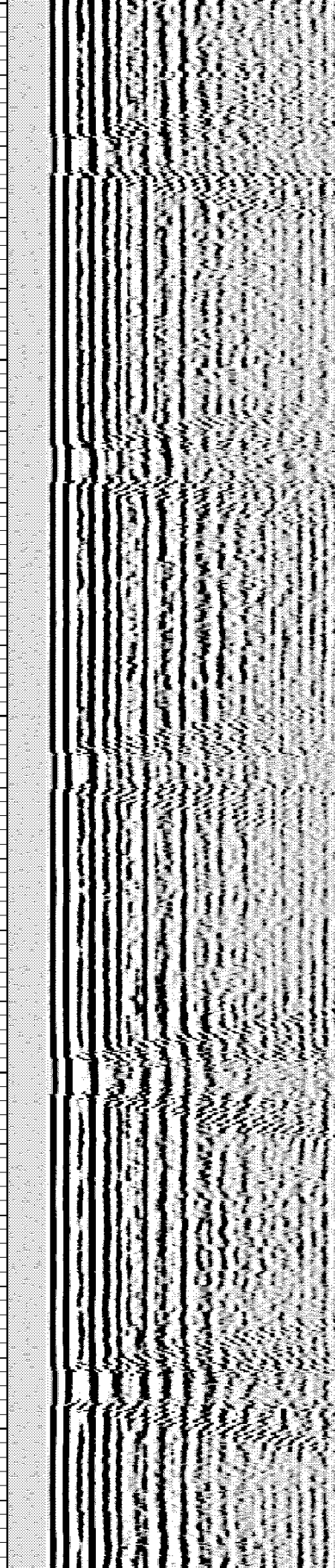
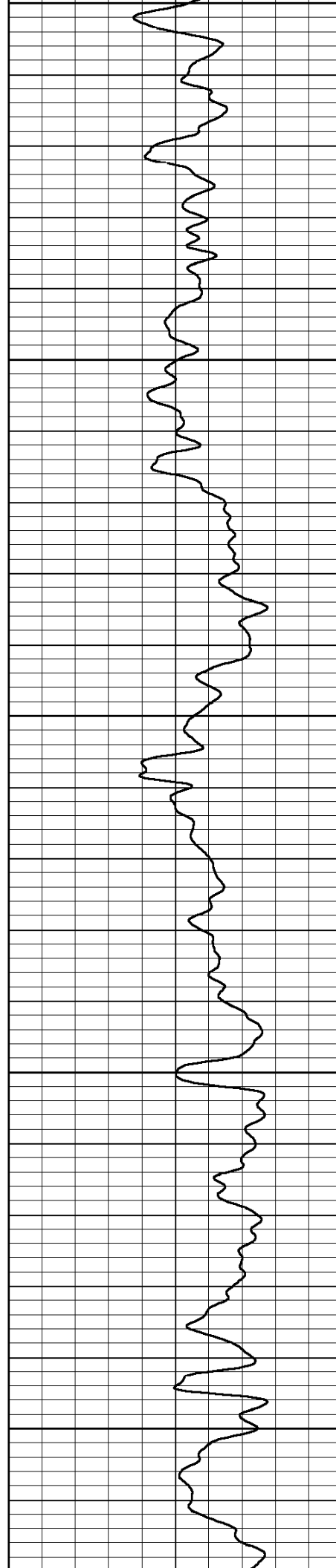
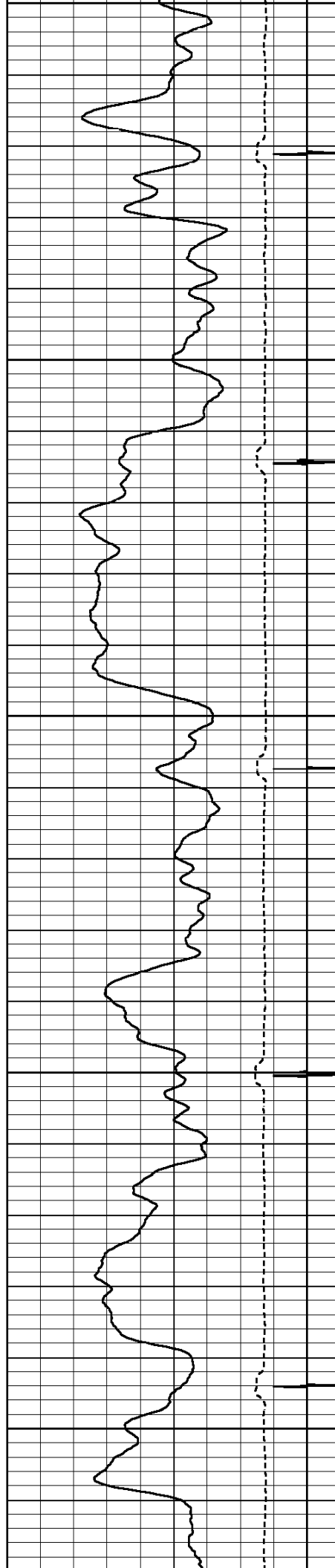
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3400



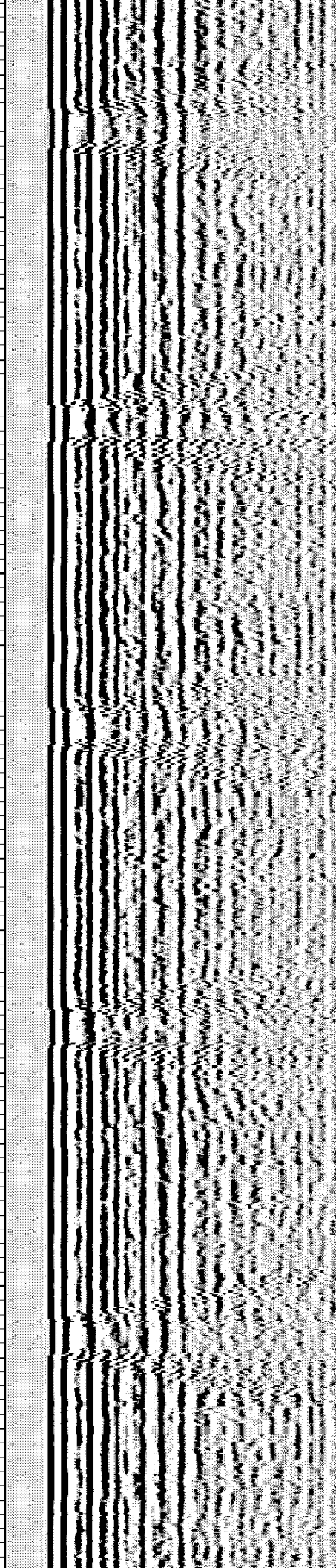
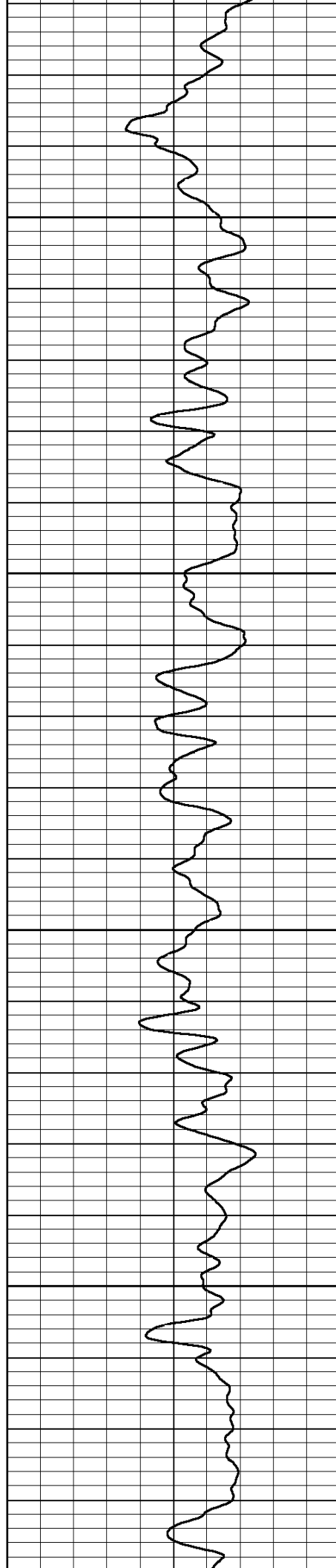
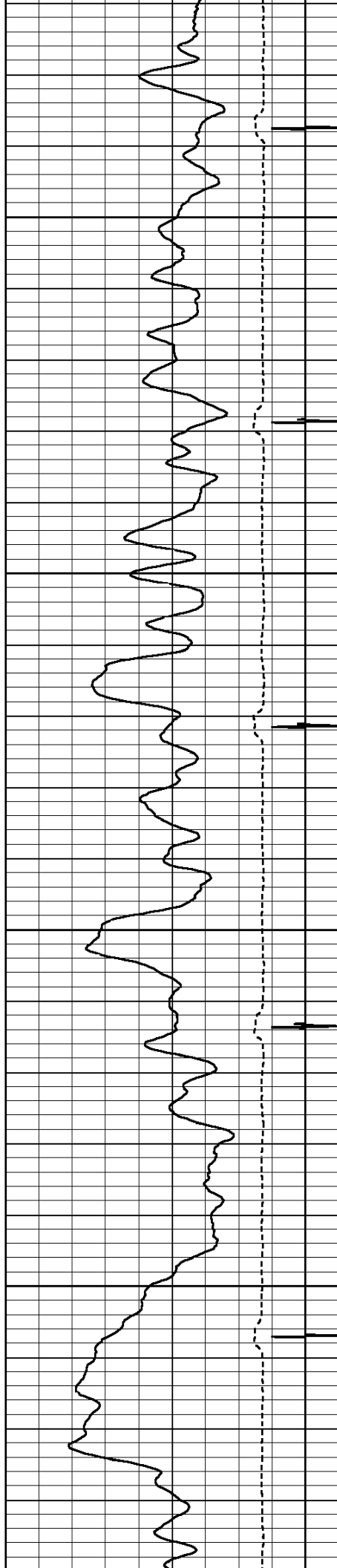
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3600



3700

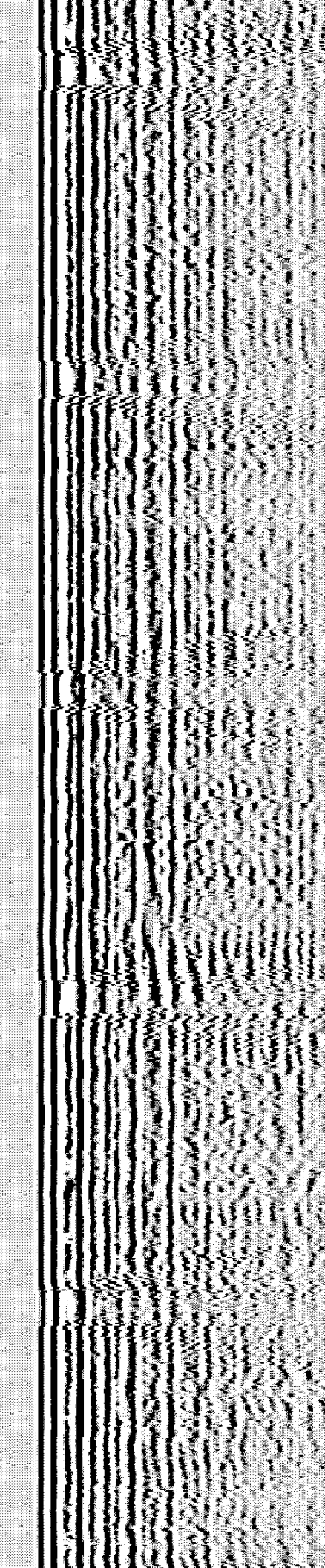
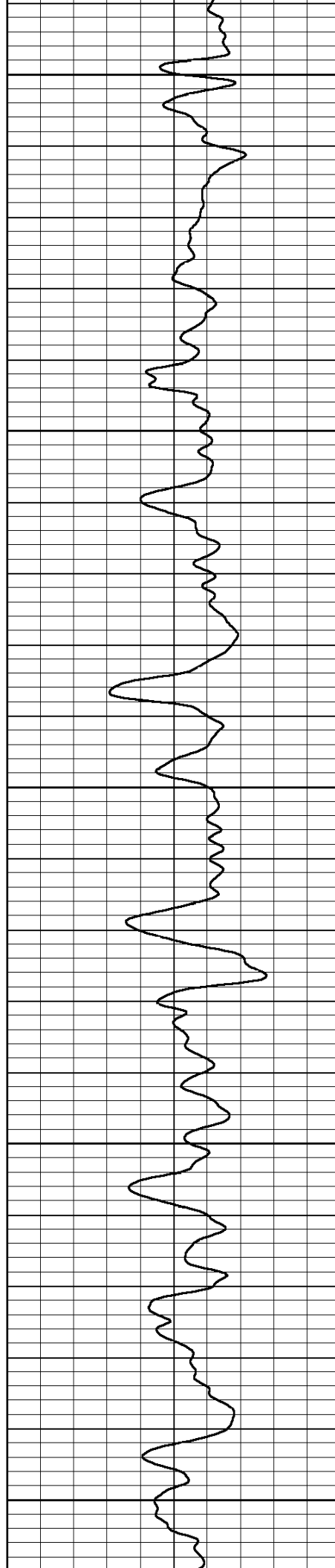
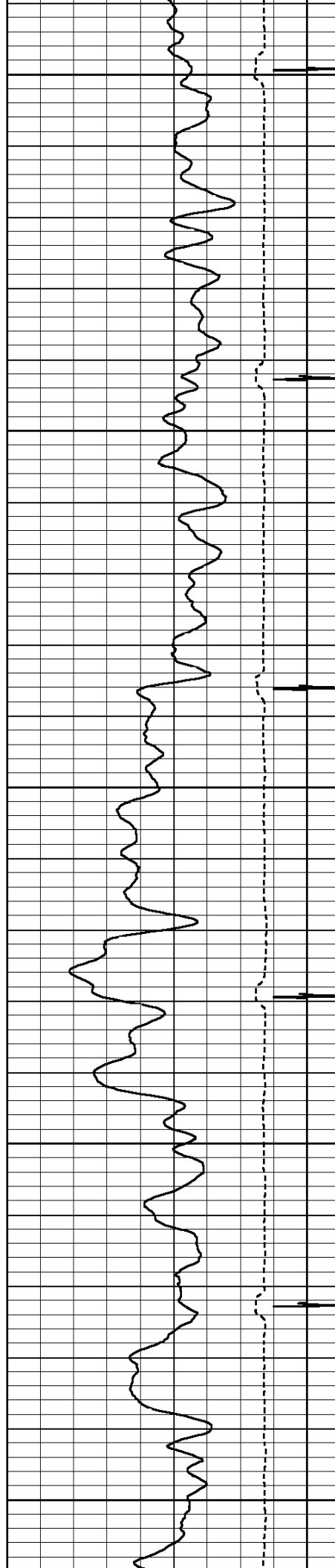
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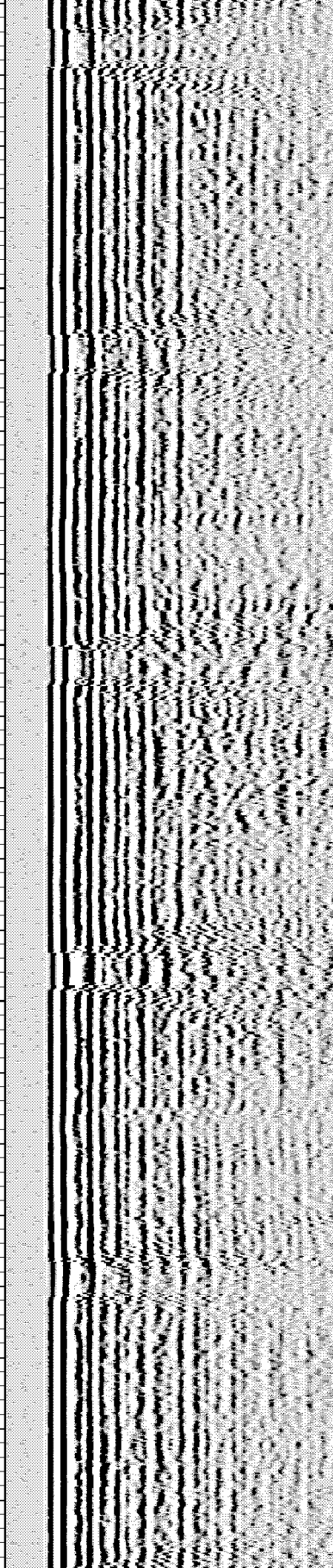
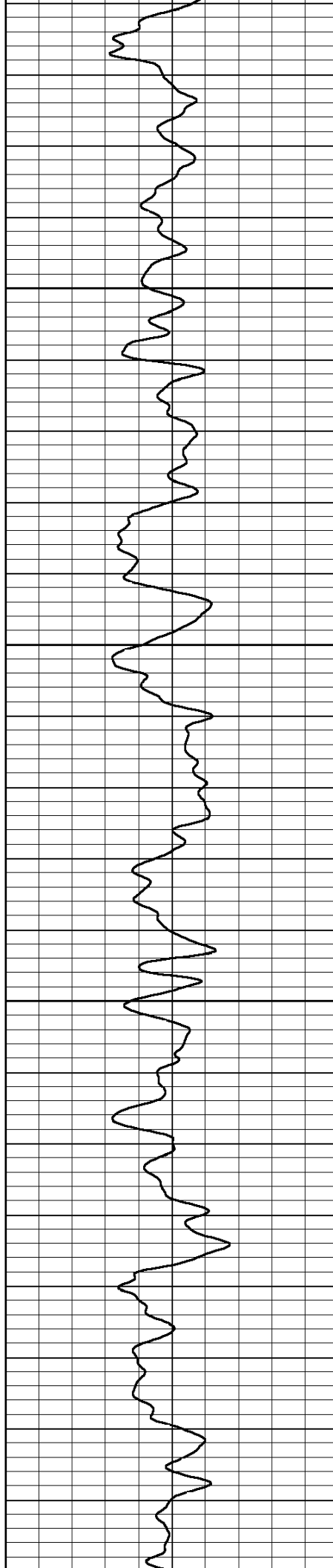
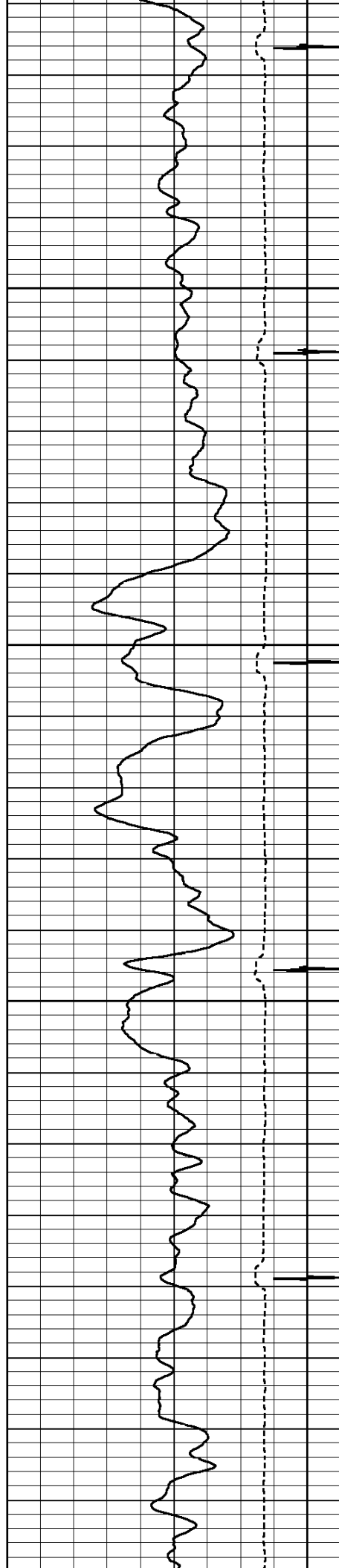
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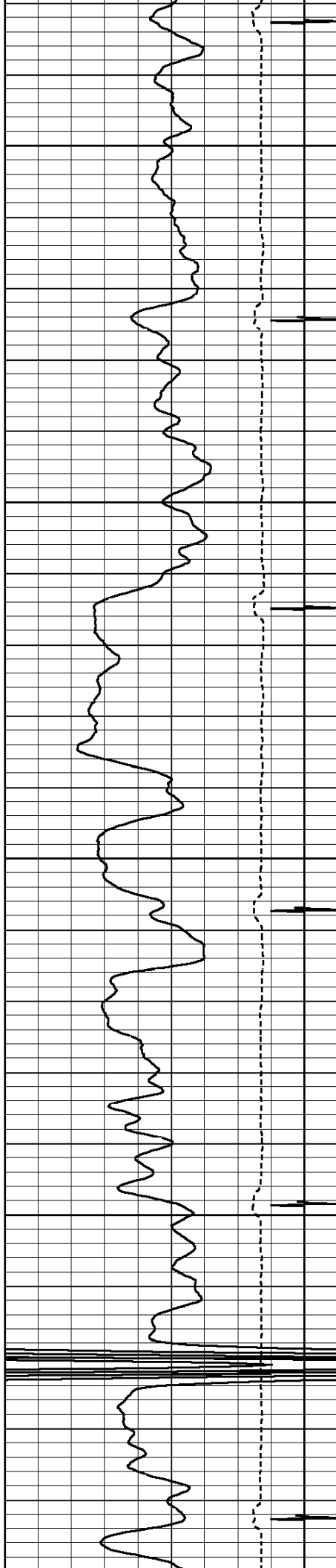
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4200

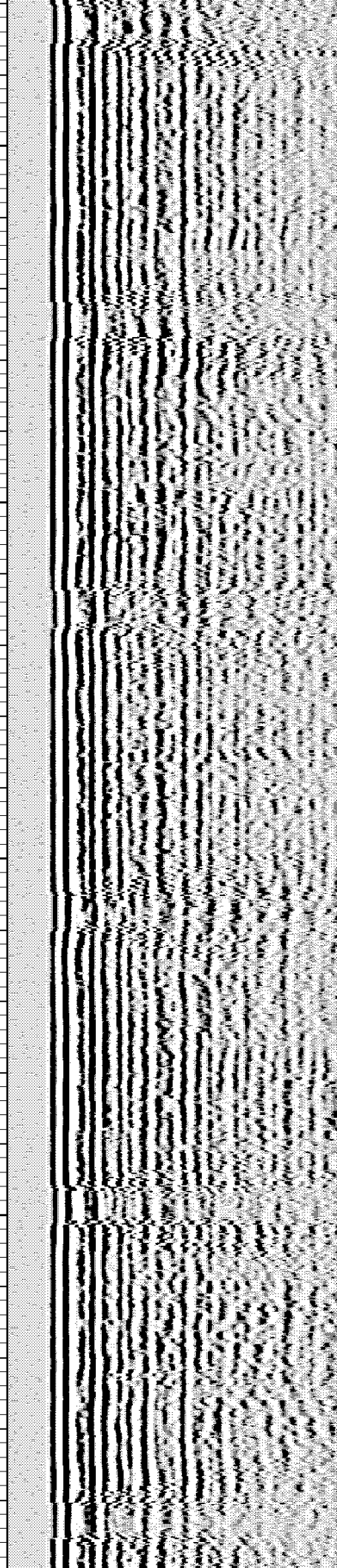
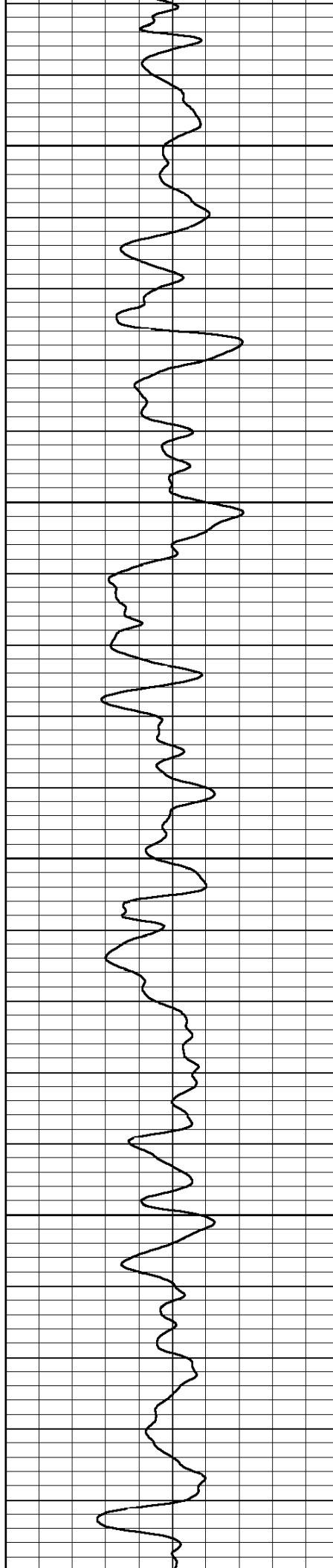
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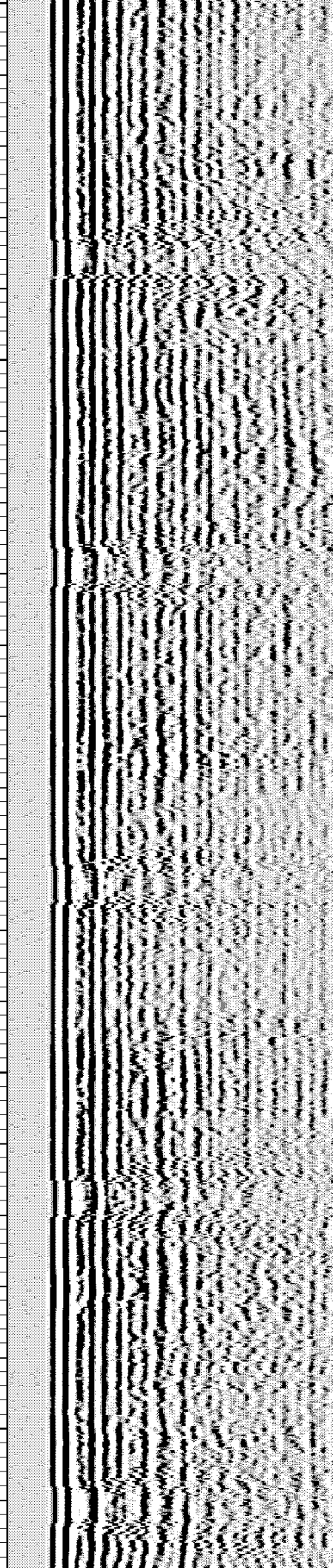
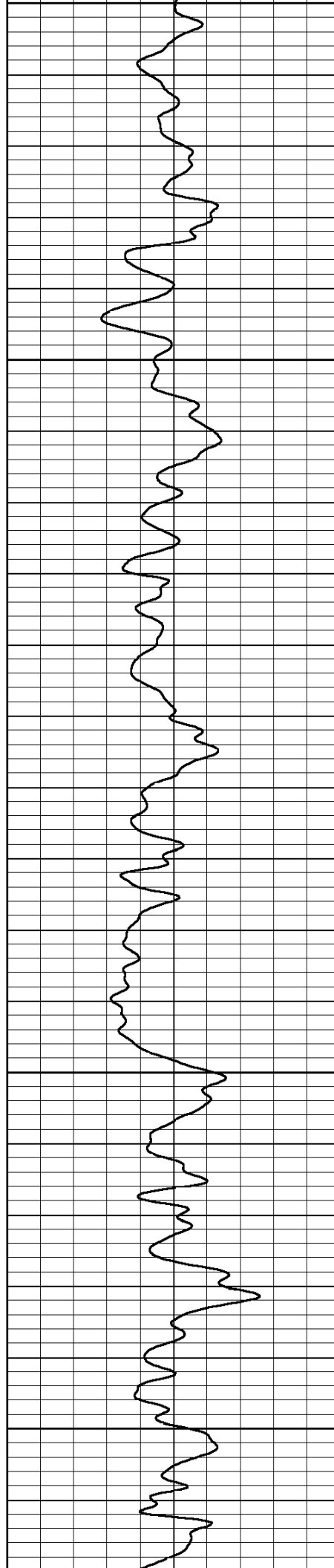
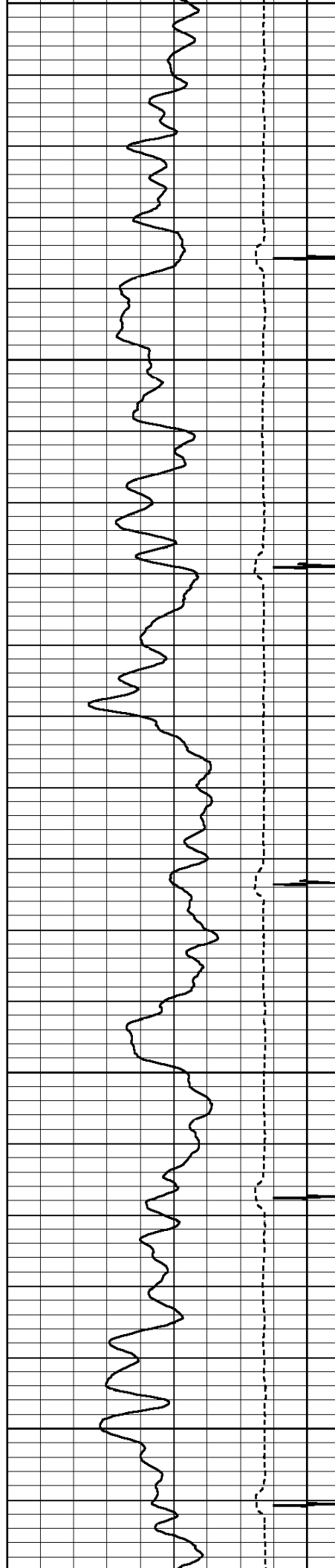
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4500



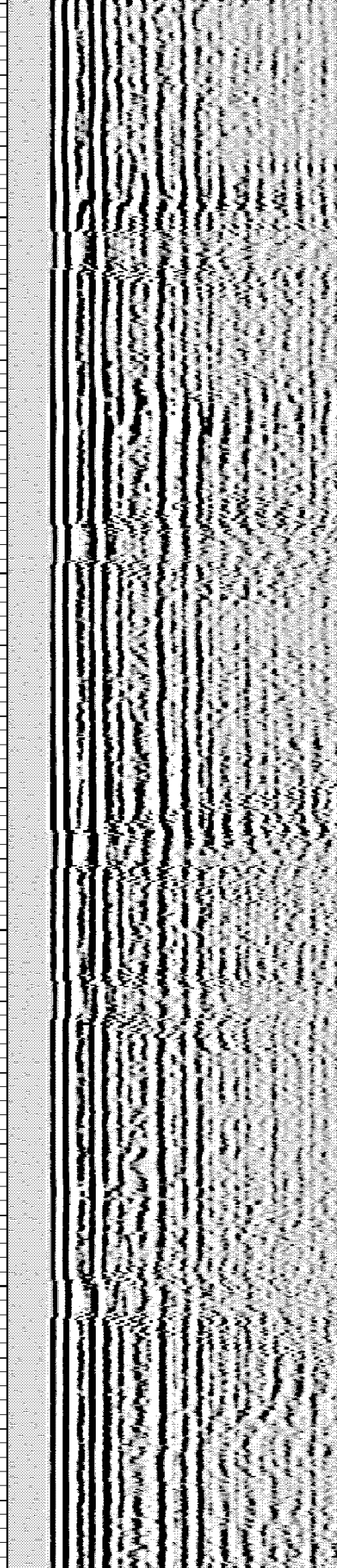
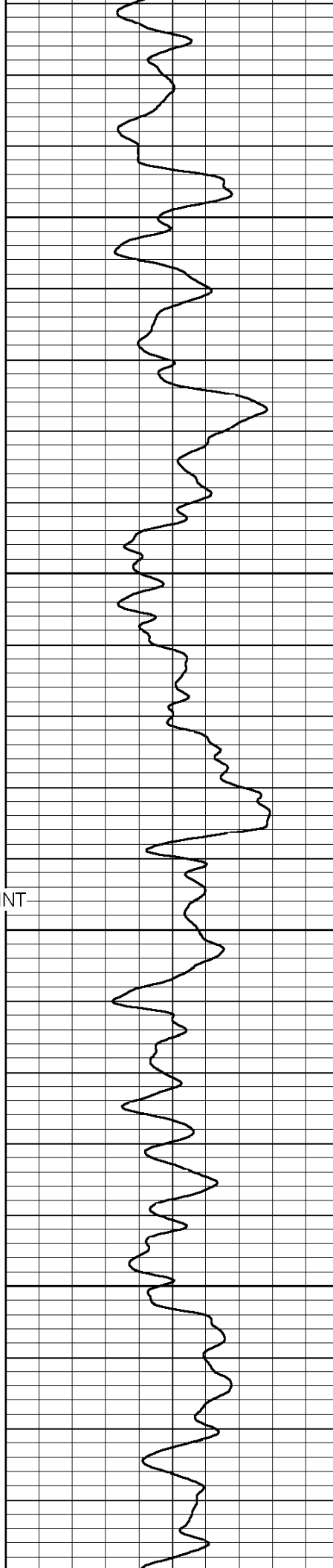
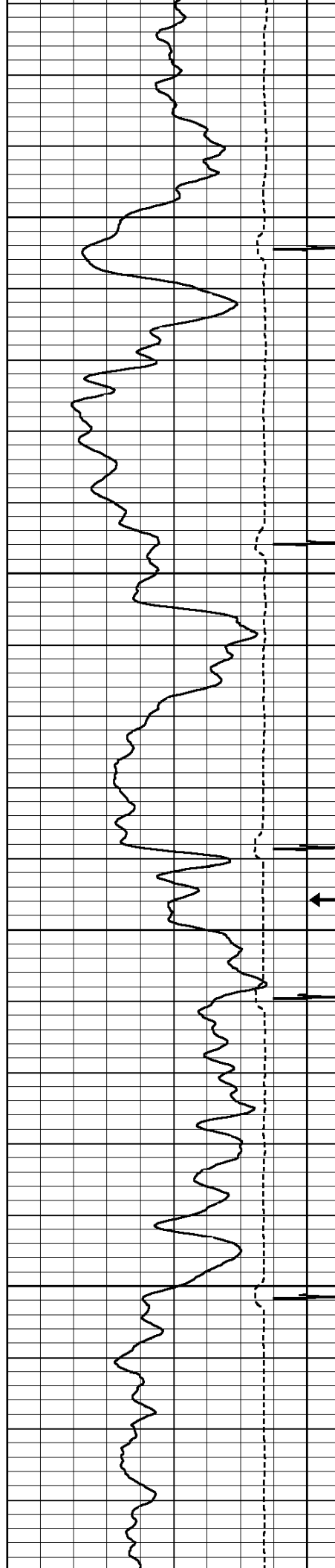
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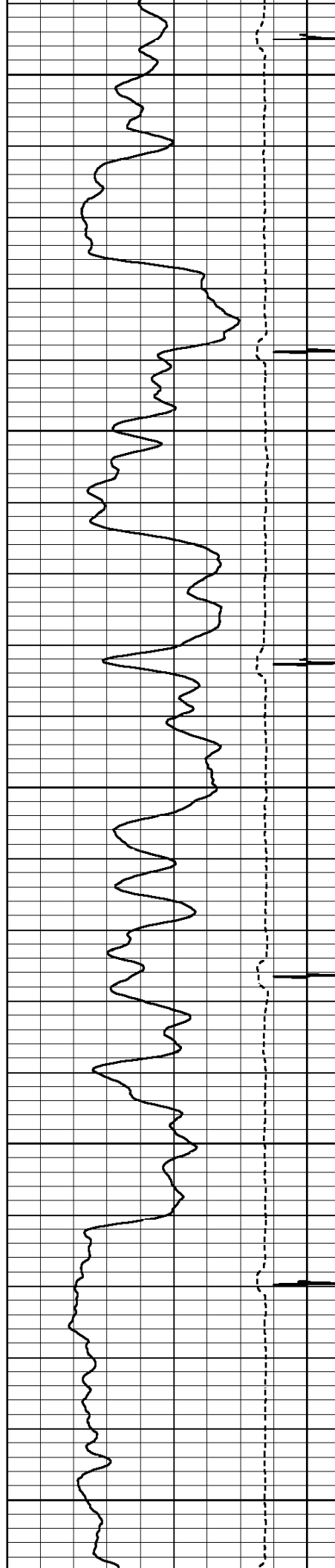
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4800

← SHORT JOINT
4900

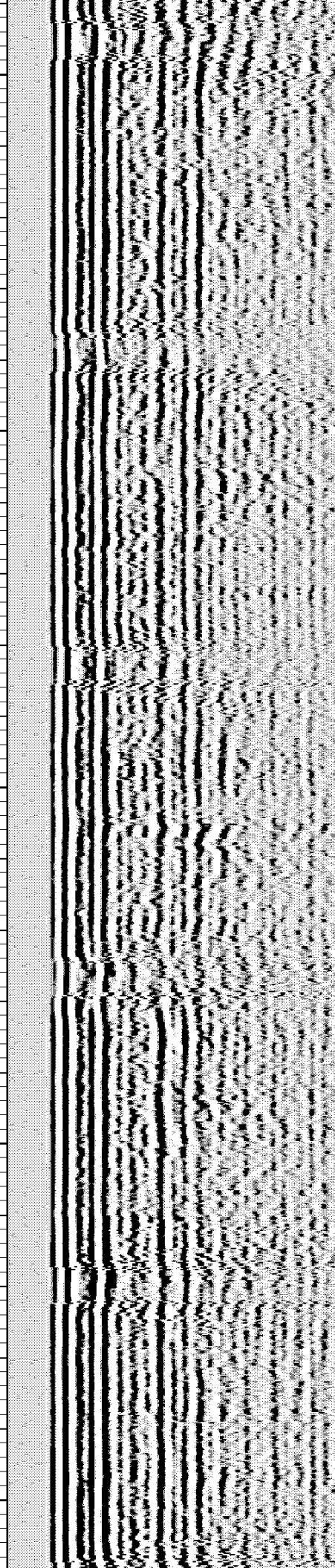
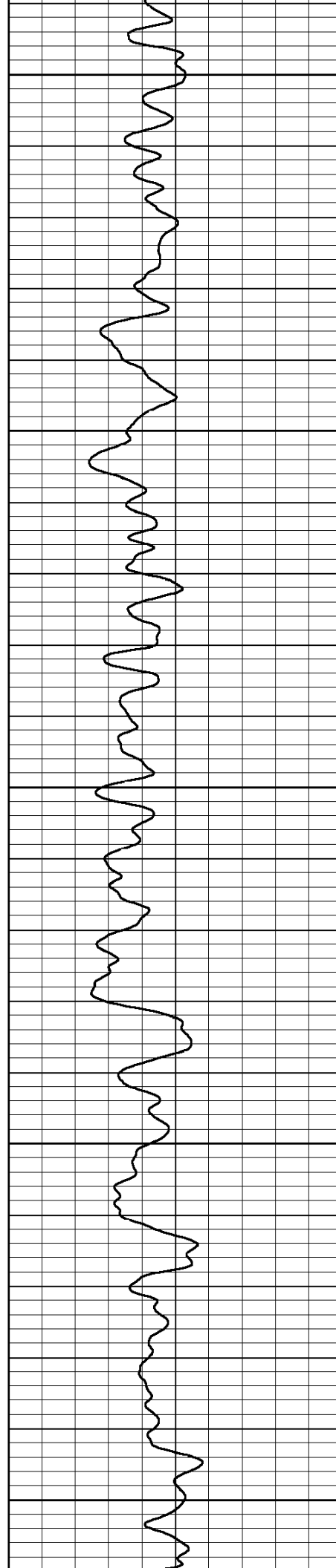


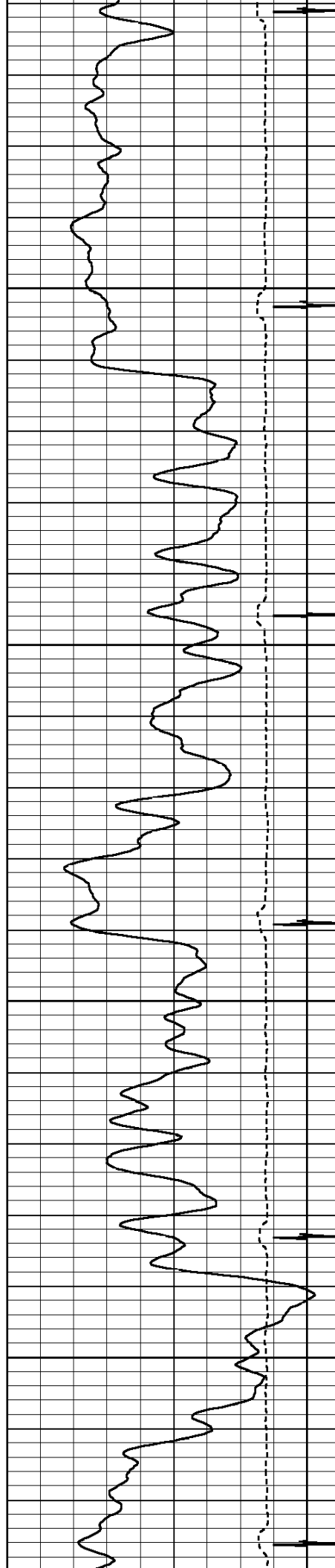


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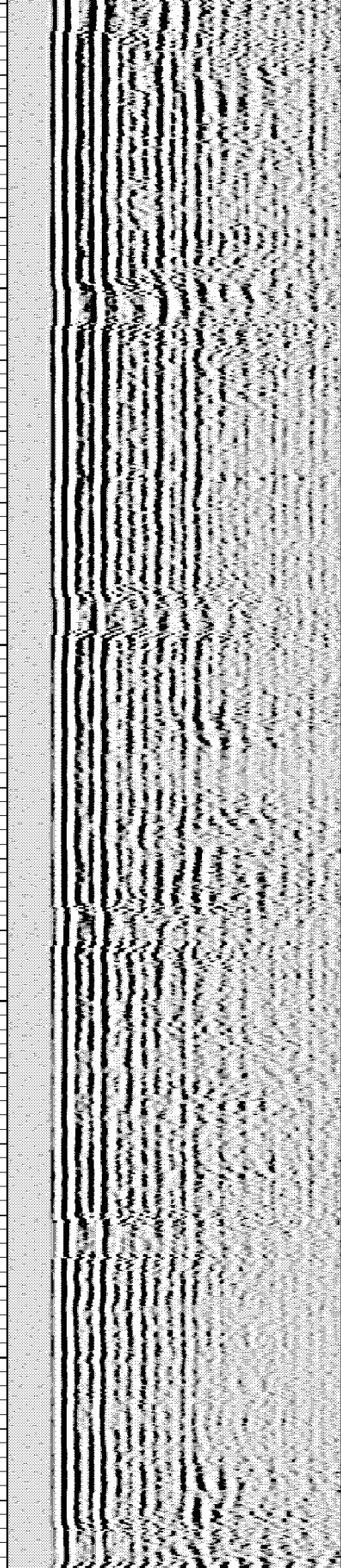
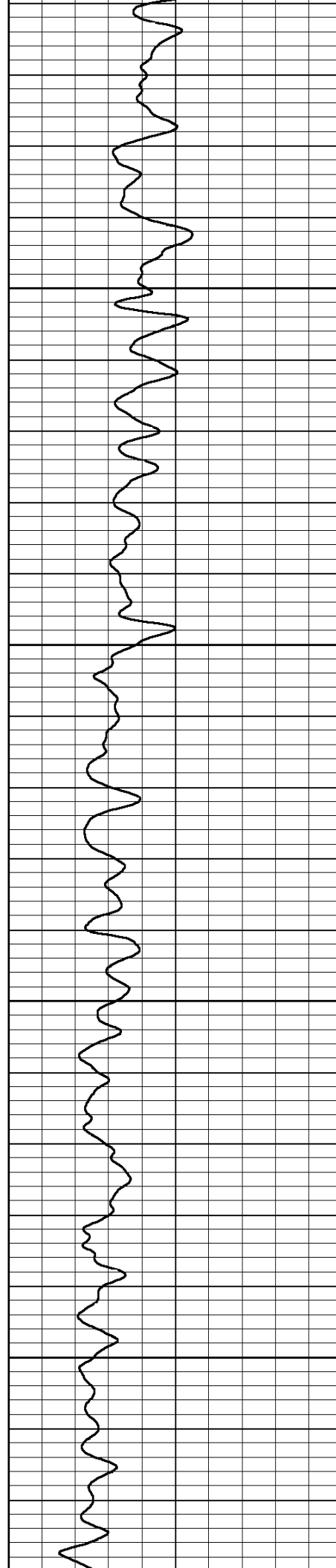
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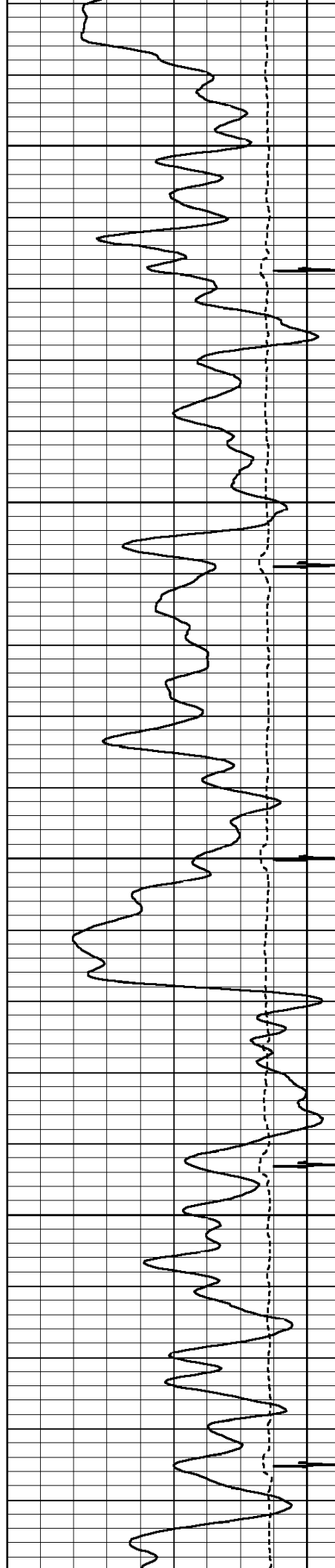




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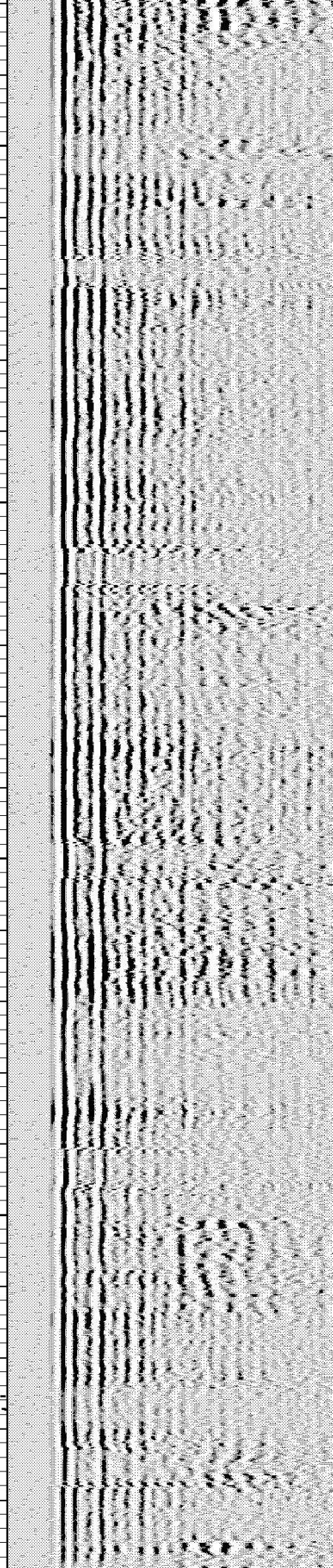
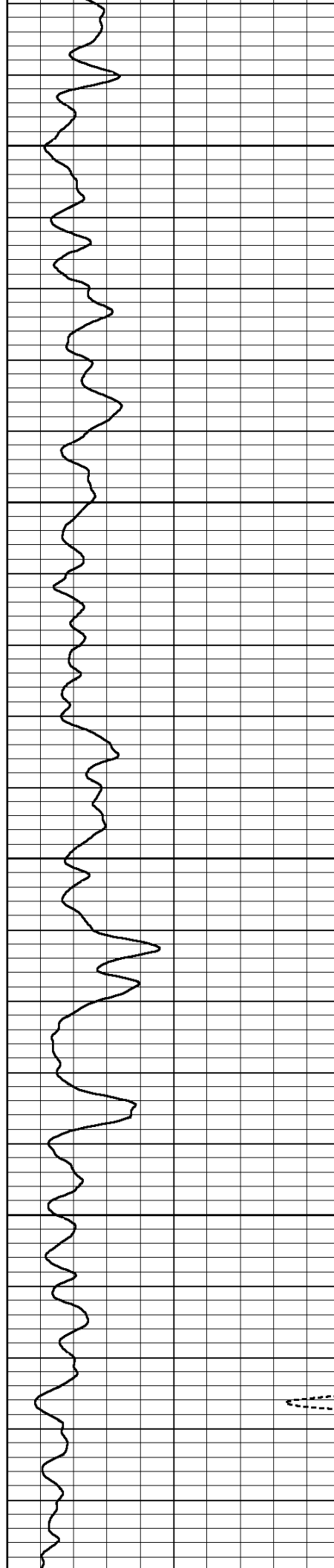
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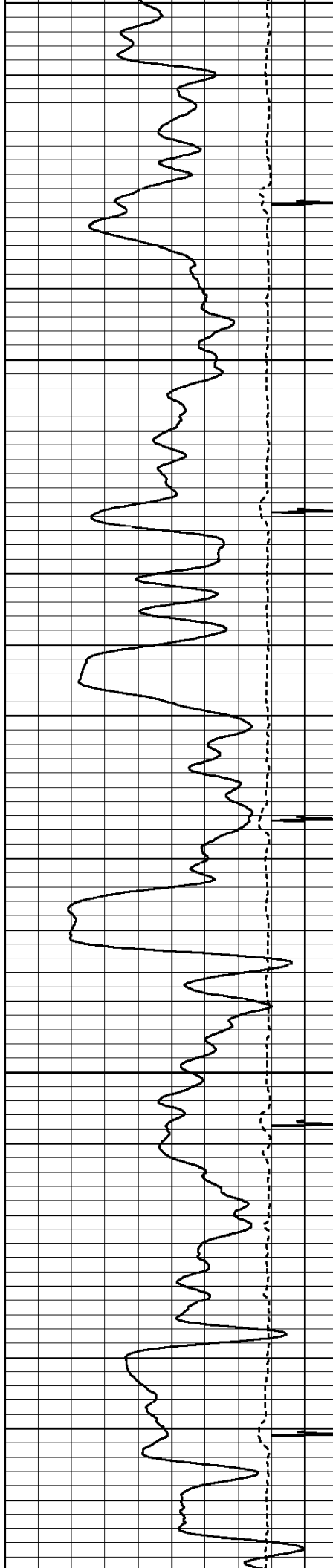




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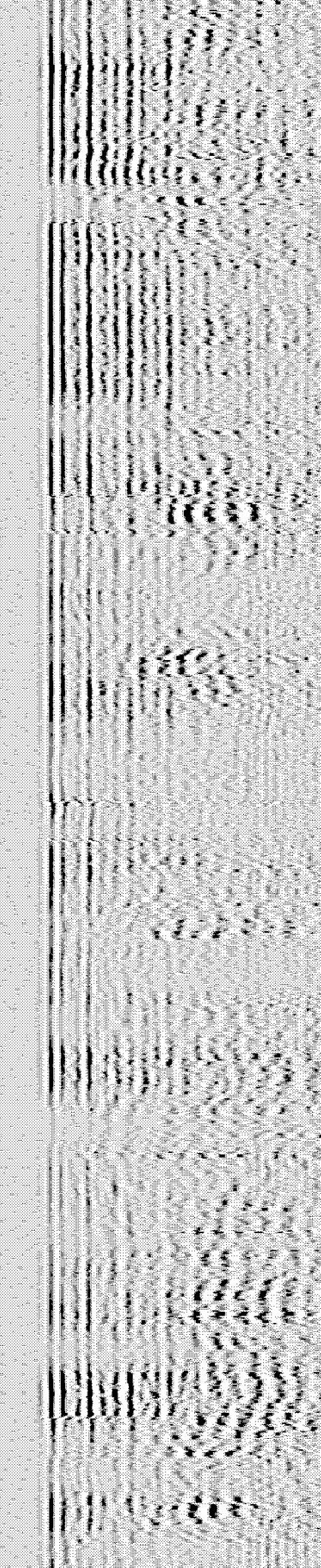
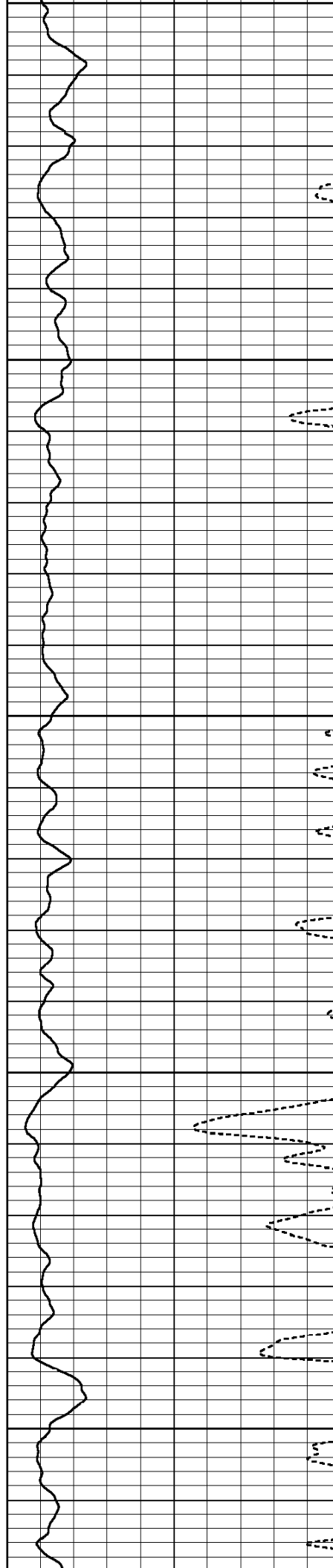
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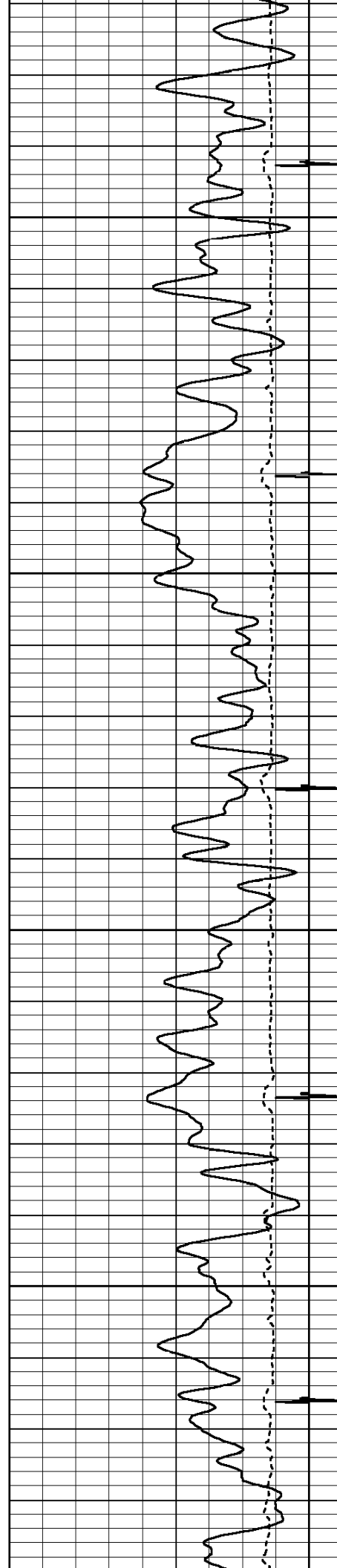




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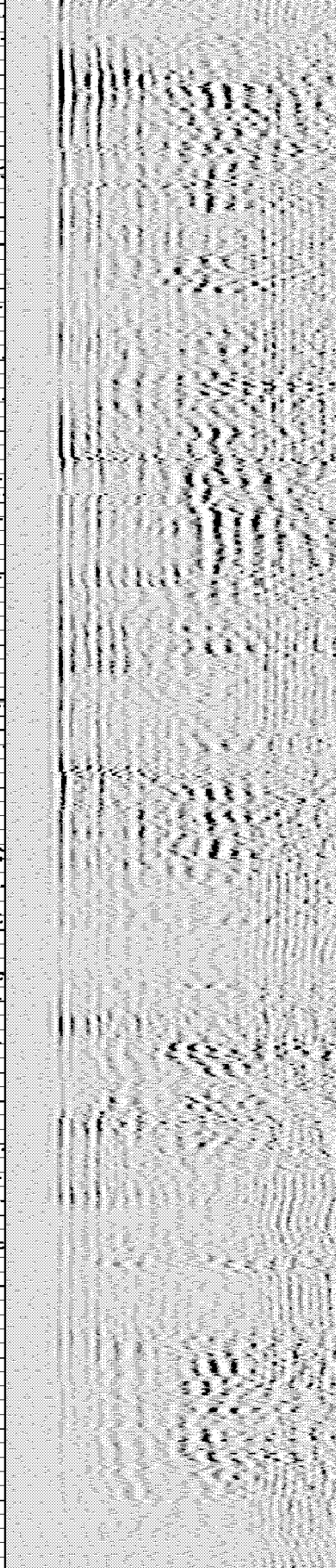
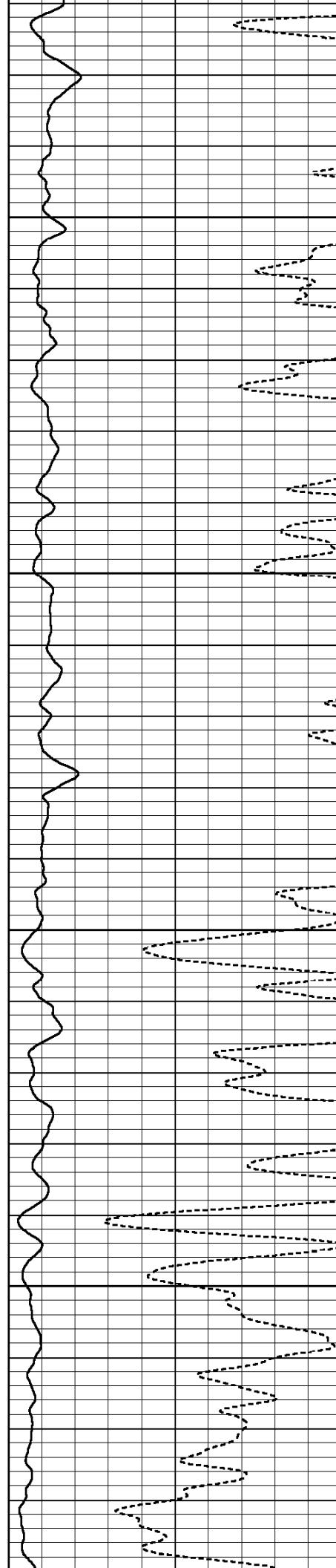
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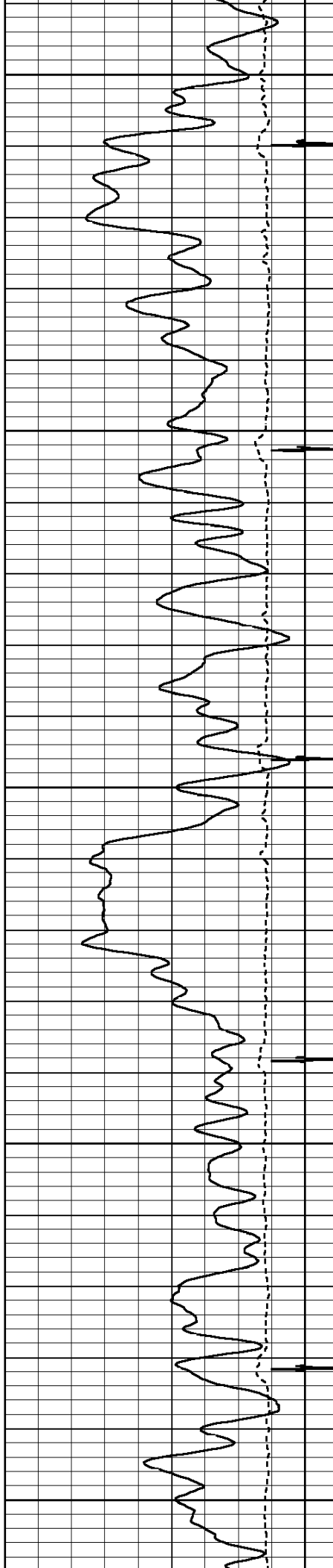




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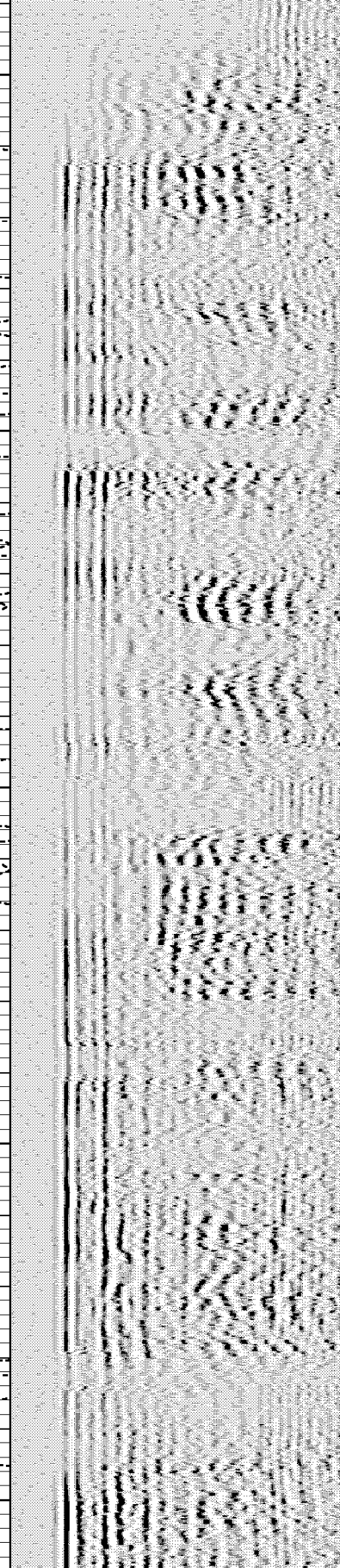
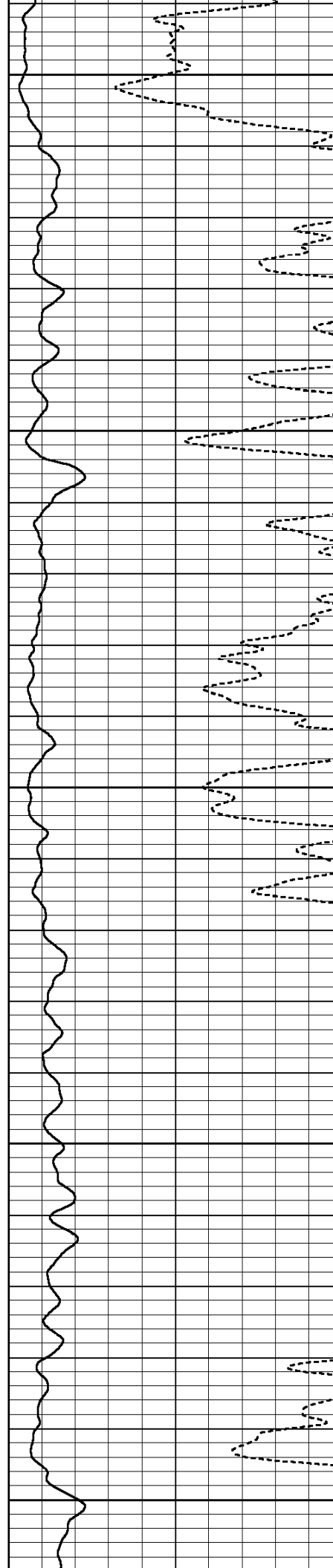




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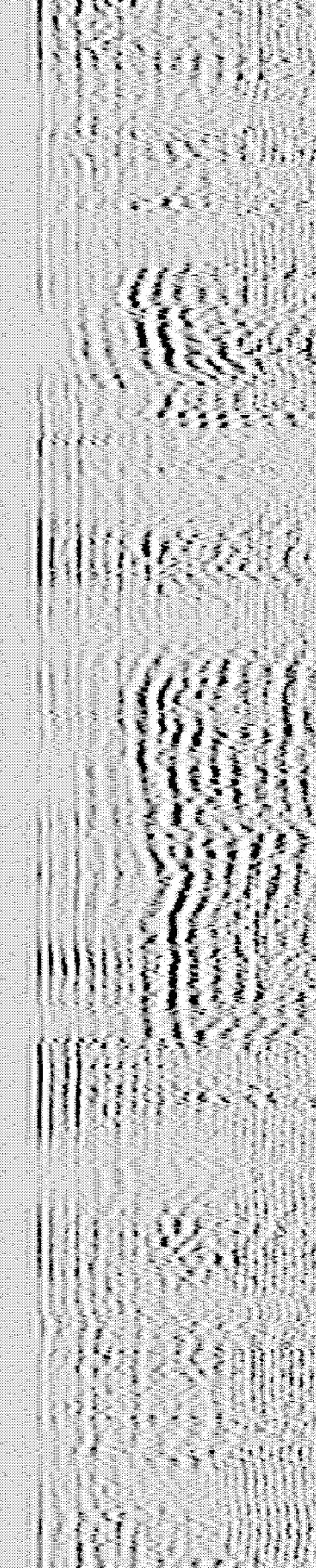
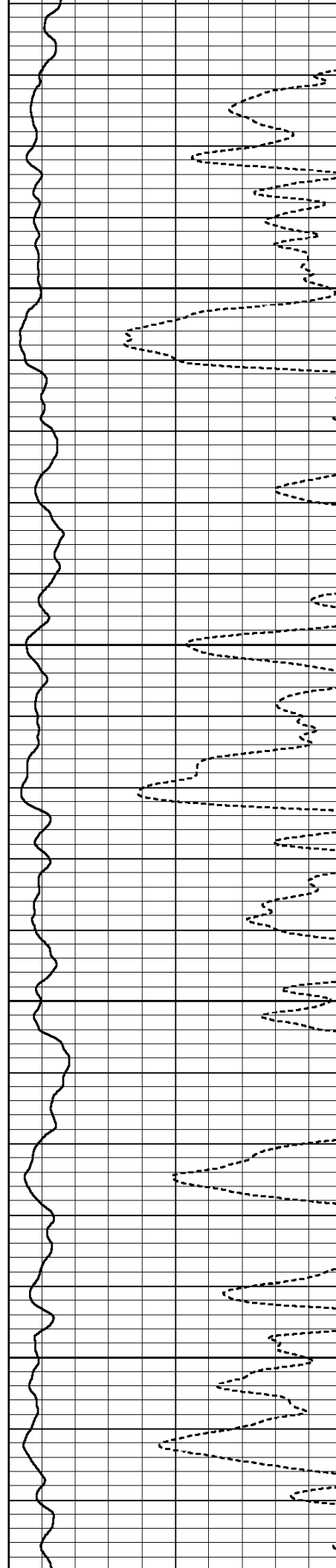
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6400

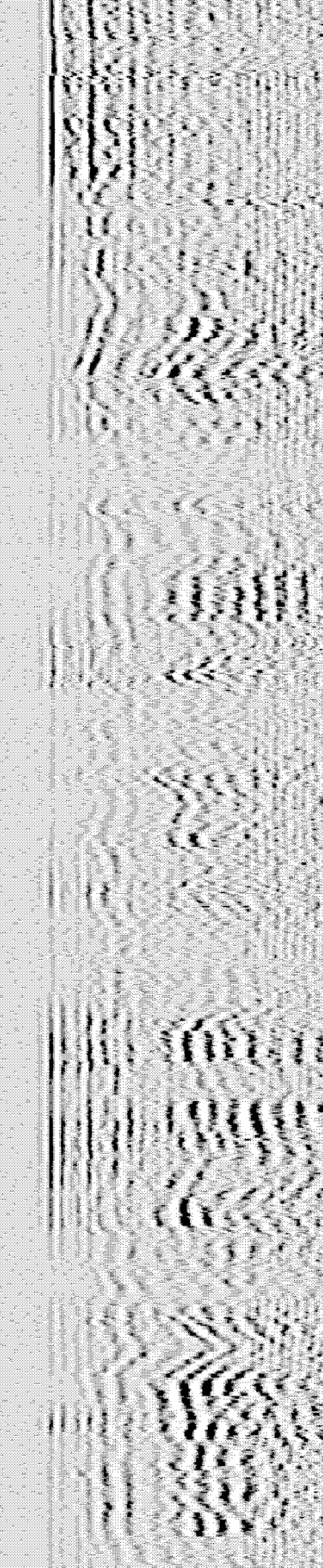
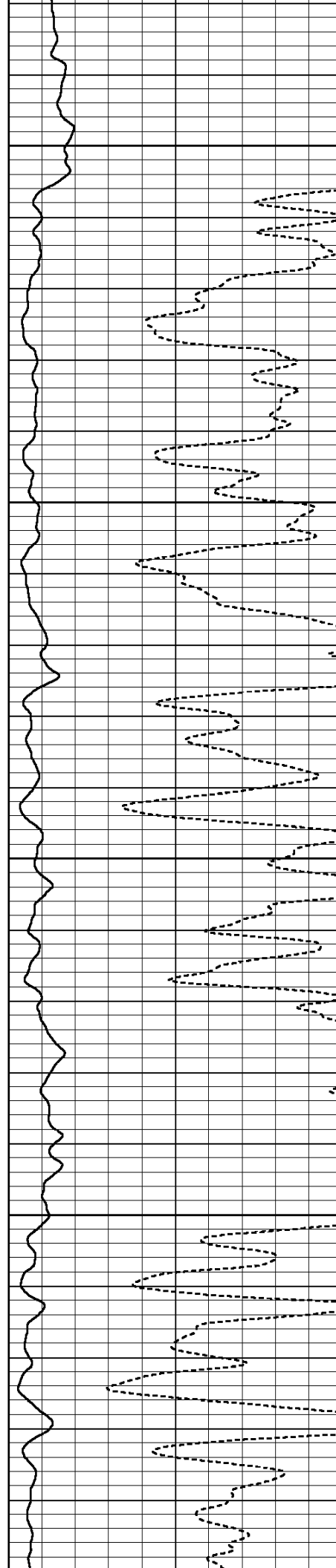
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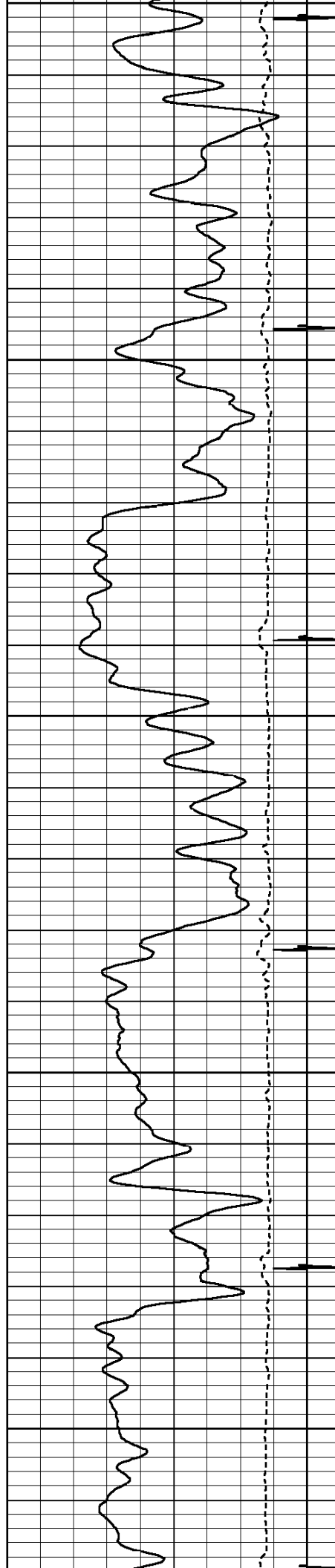




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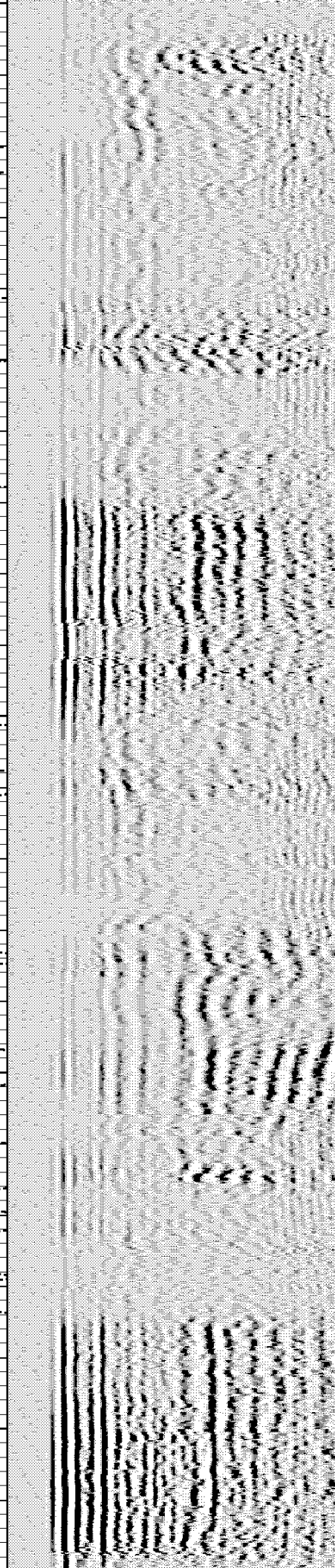
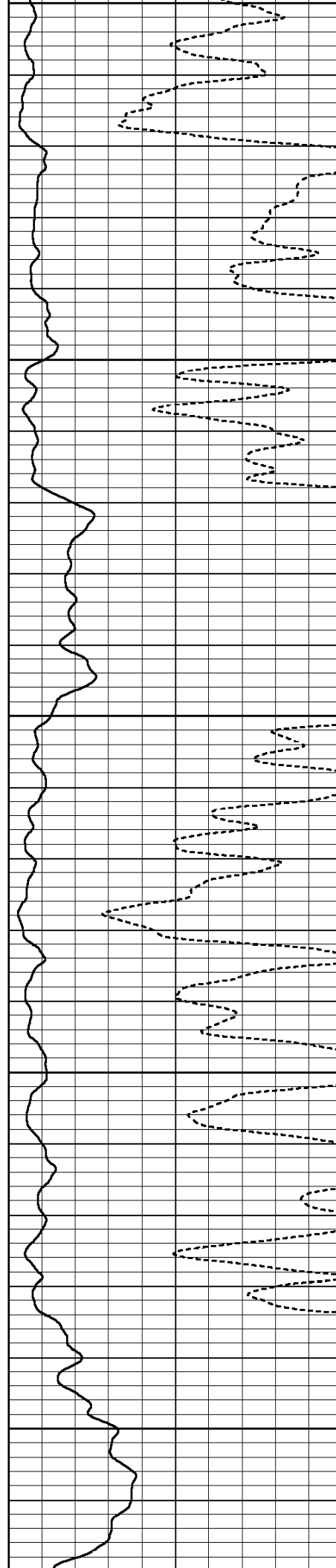
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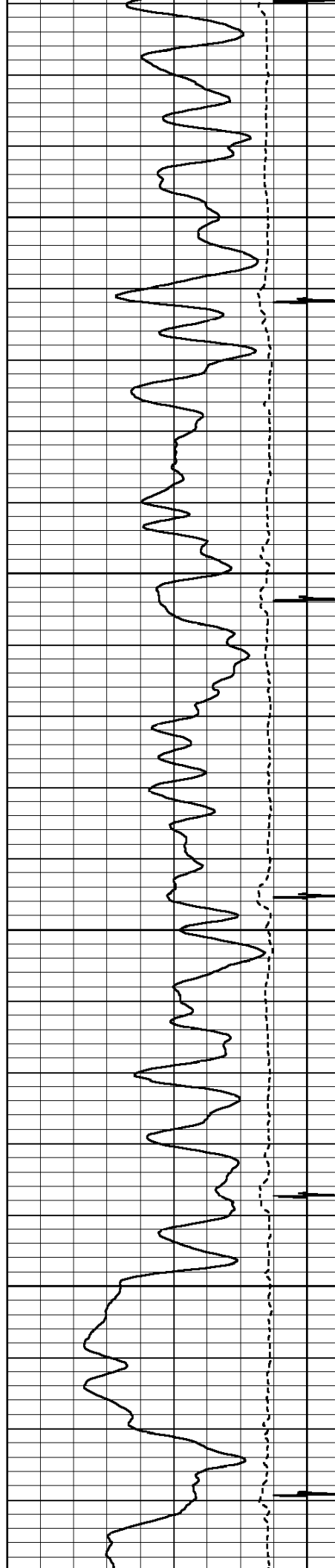




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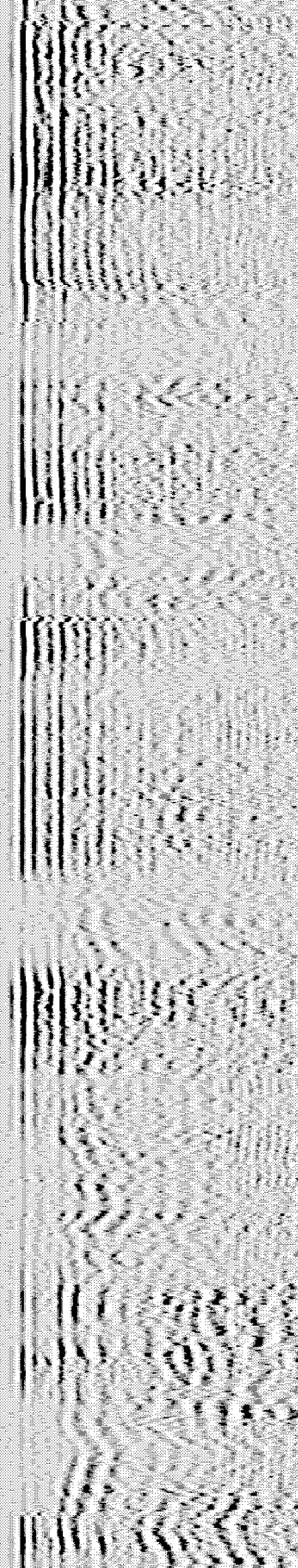
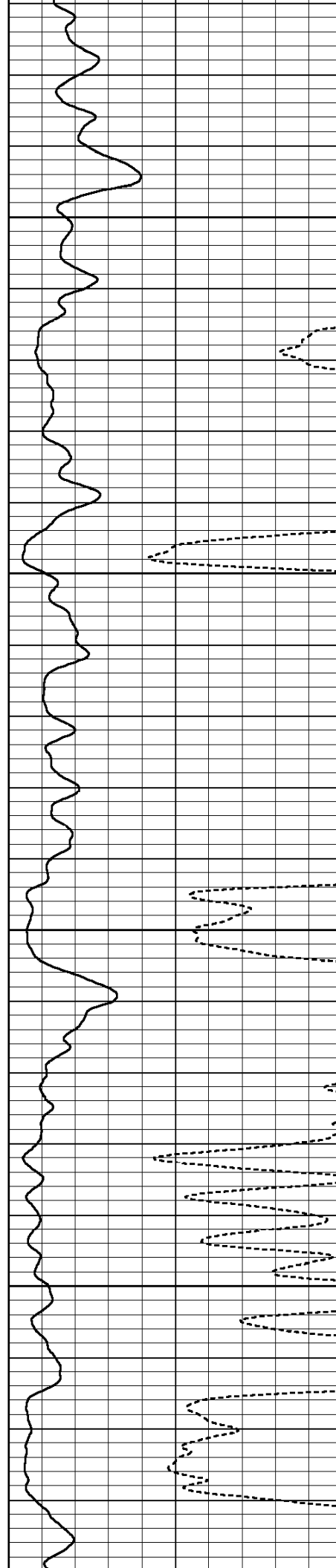
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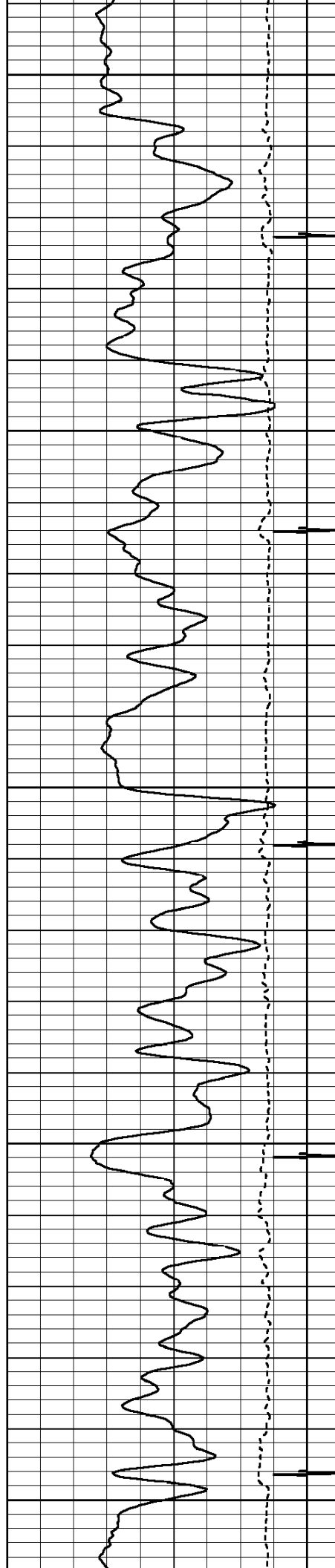




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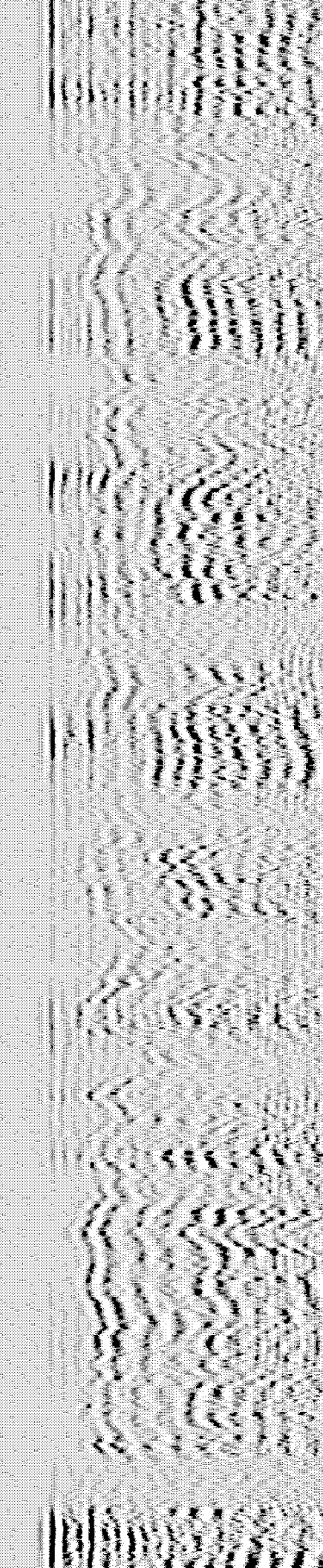
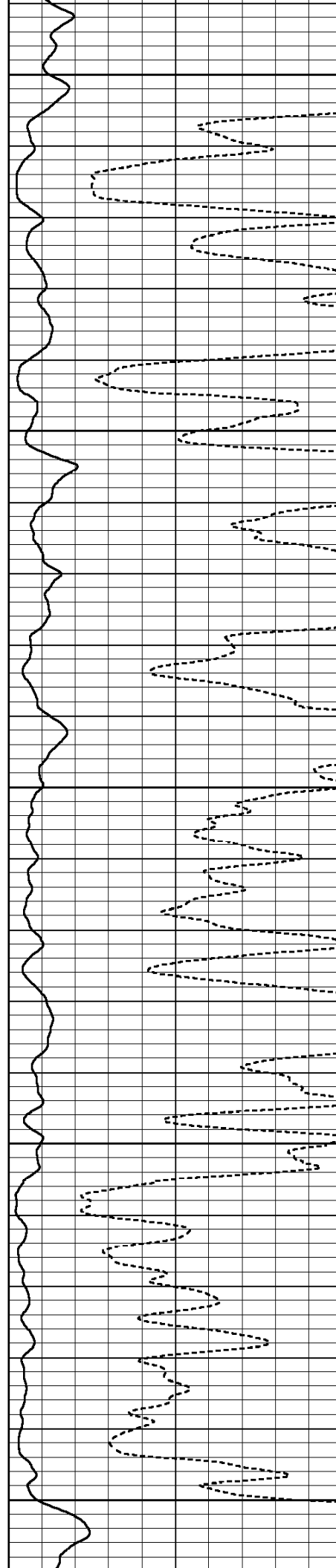


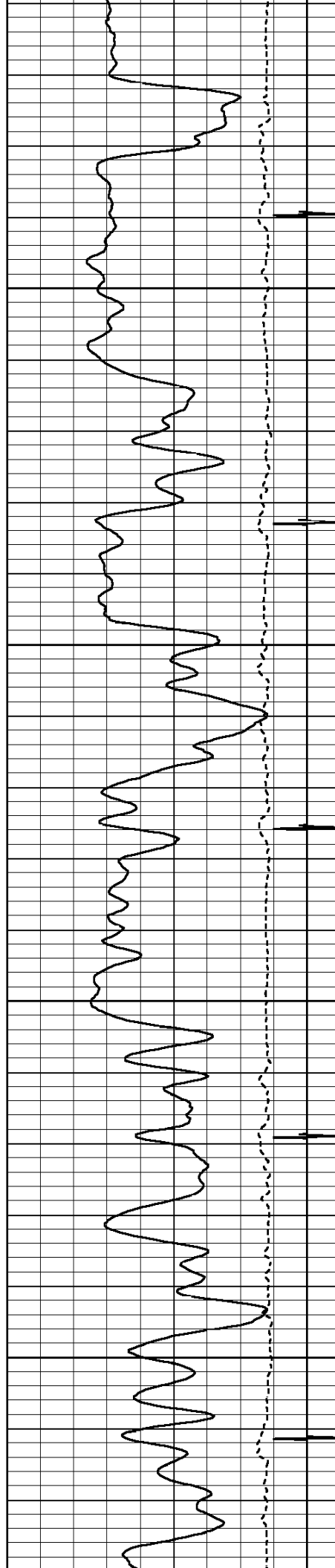


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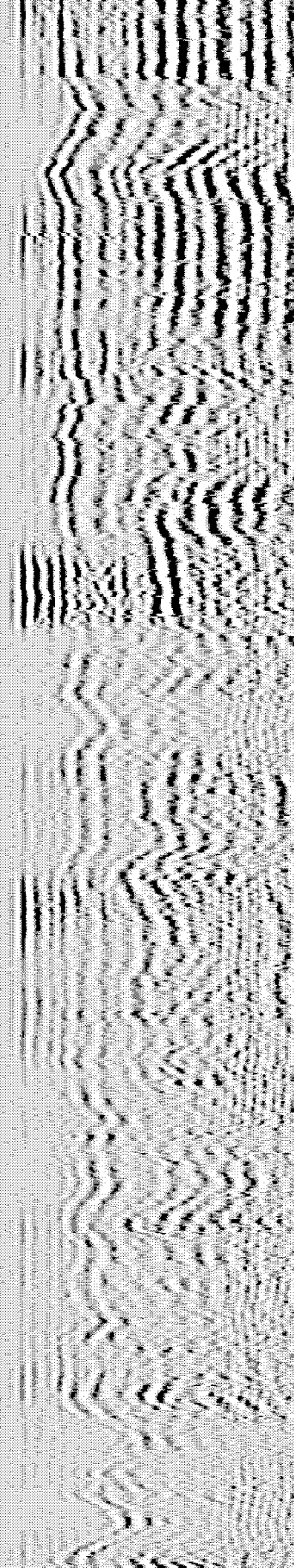
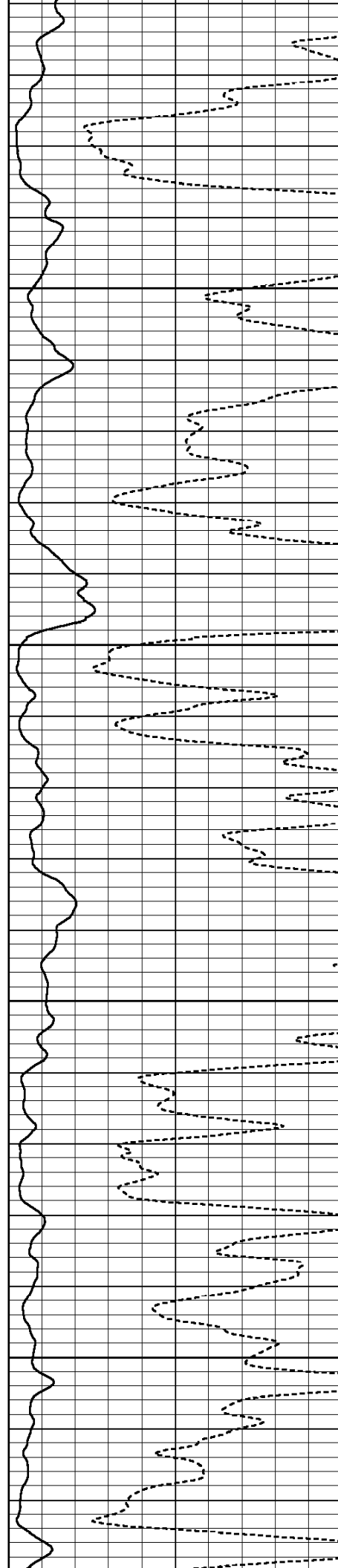
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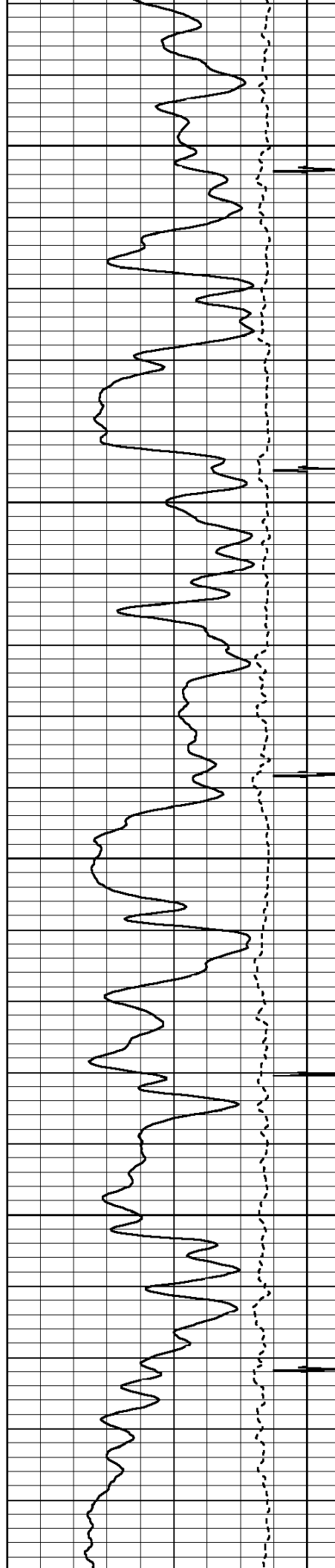




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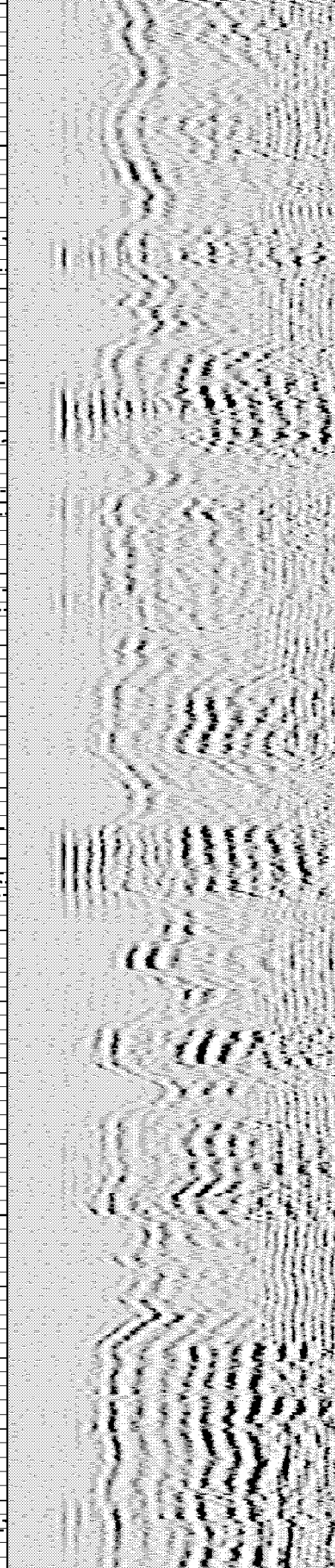
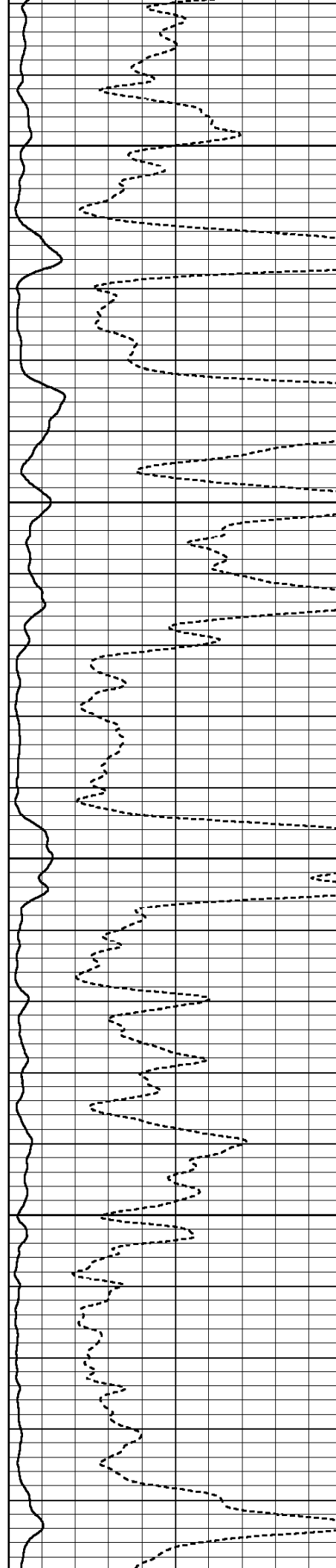
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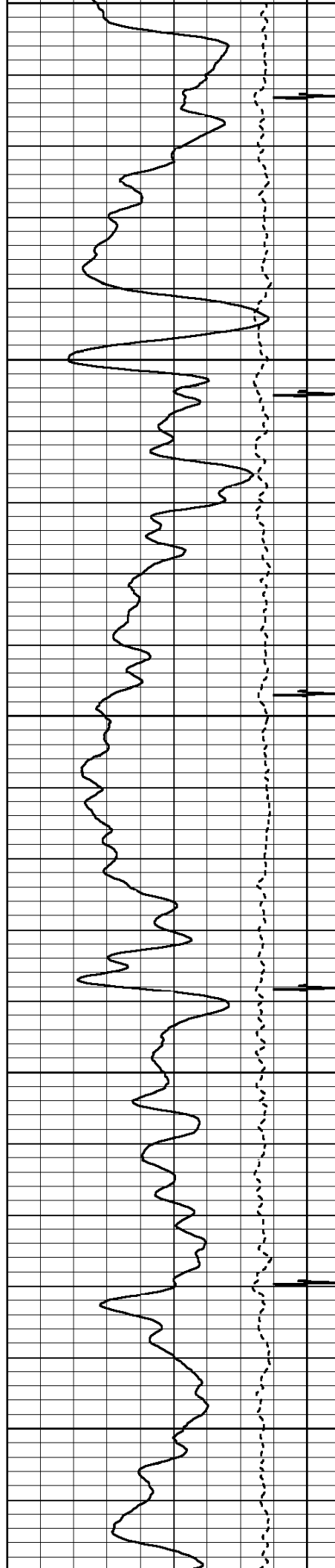




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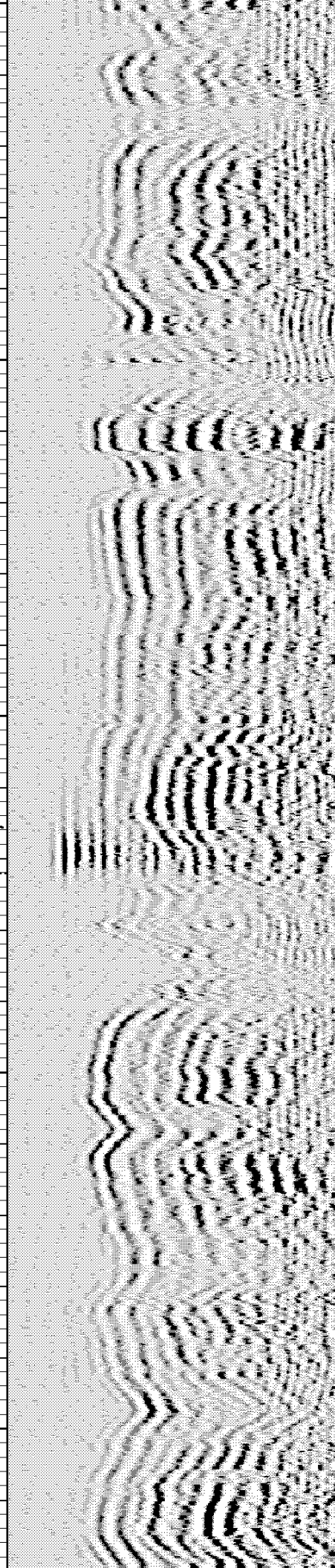
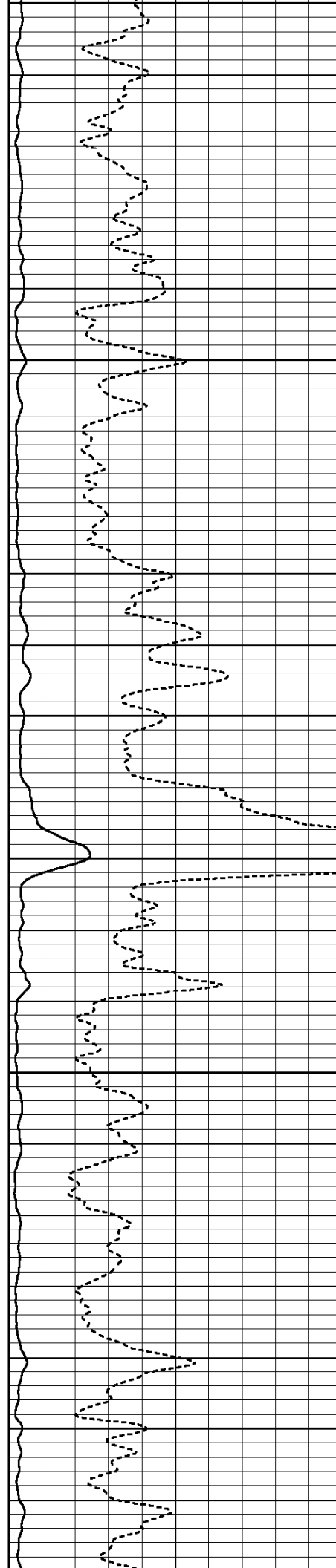
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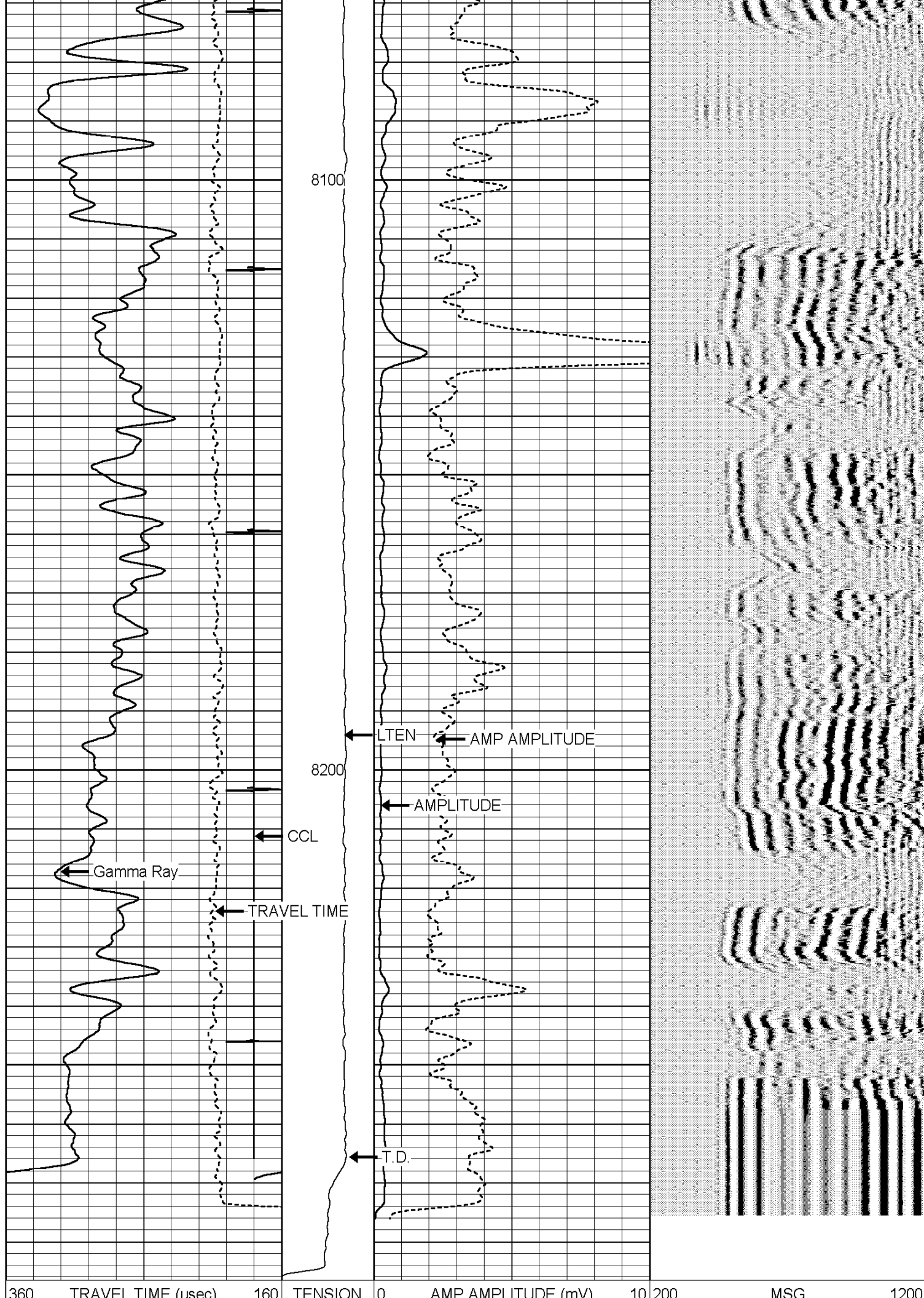




7900

8000





0	Gamma Ray (GAPI)	200	0	TENSION	0	AMP AMPLITUDE (mV)	100	200	MSG	1200
-9	CCL	1	0	(lb)3000	0	AMPLITUDE (mV)	100			

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ACOUSTIC CEMENT BOND LOG

MAIN LOG SECTION

5"=100'

HALLIBURTON

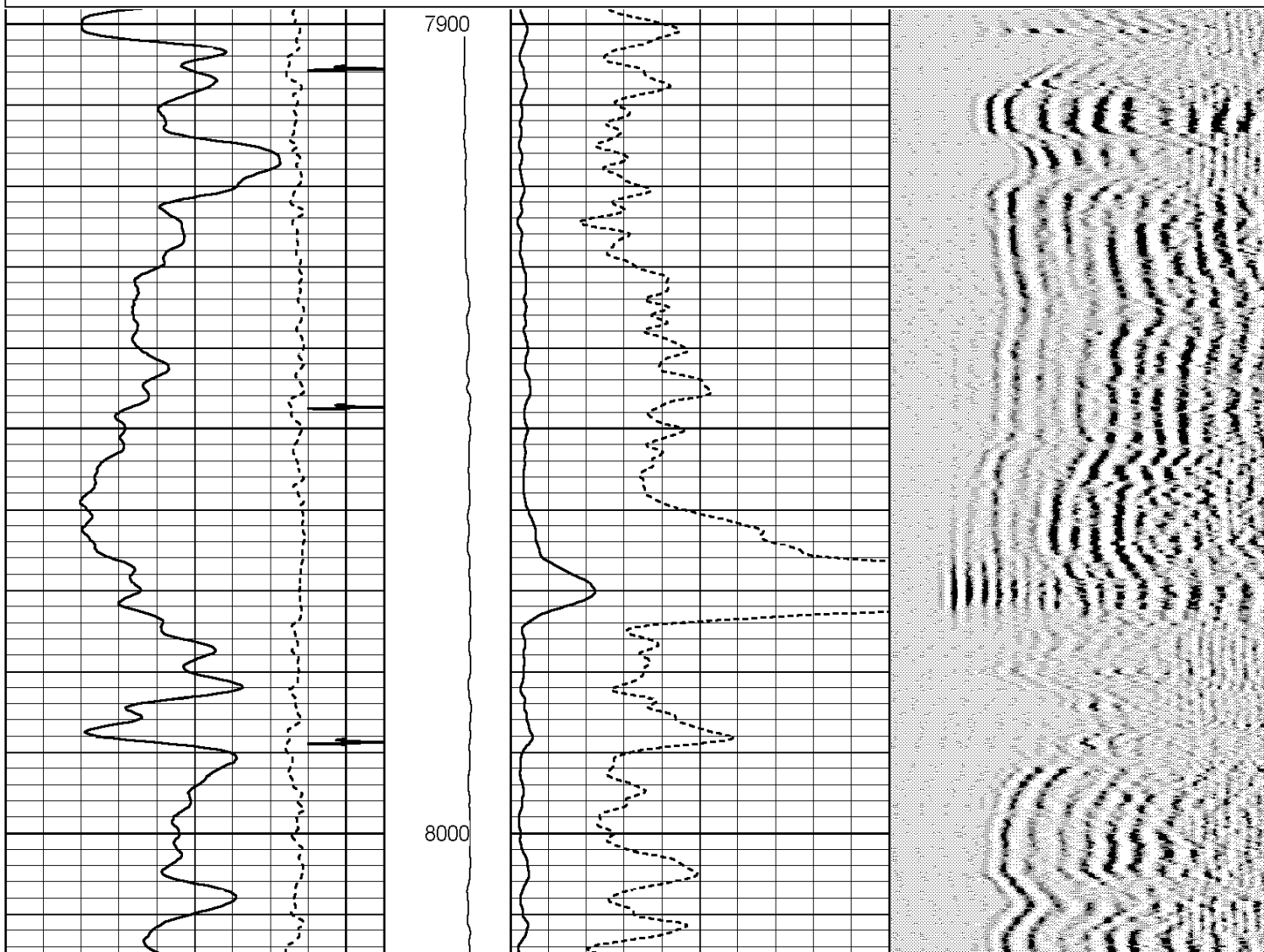
ACOUSTIC CEMENT BOND LOG

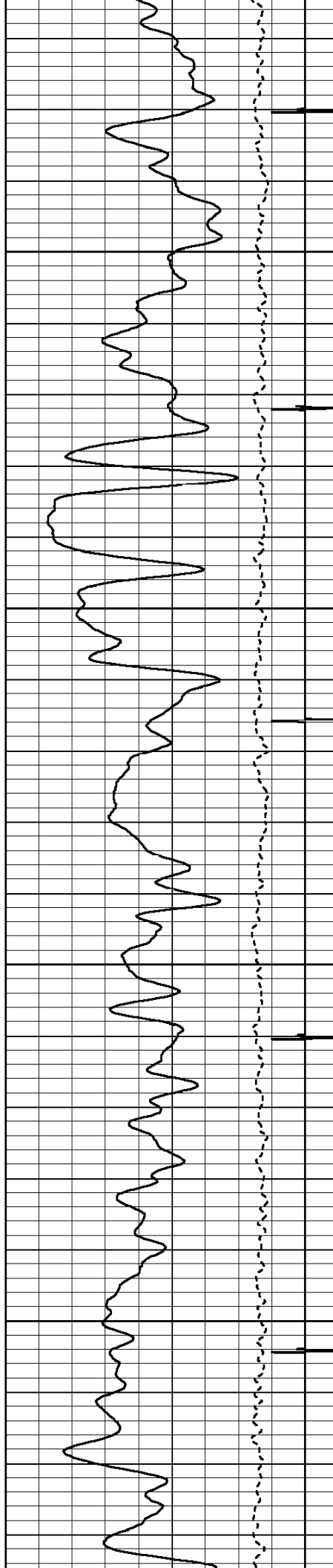
REPEAT LOG SECTION

5"=100'

Database File: rwf_324_32_cbl.db
Dataset Pathname: RULISON/RWF_324_3/run1/REP1
Presentation Format: cbl_main
Dataset Creation: Wed Jun 04 12:41:40 2008 by Calc Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

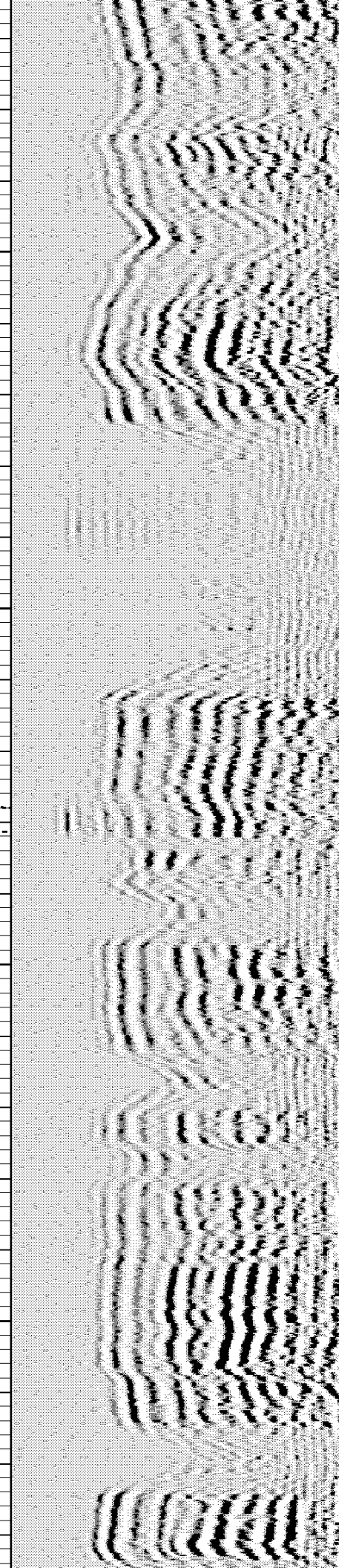
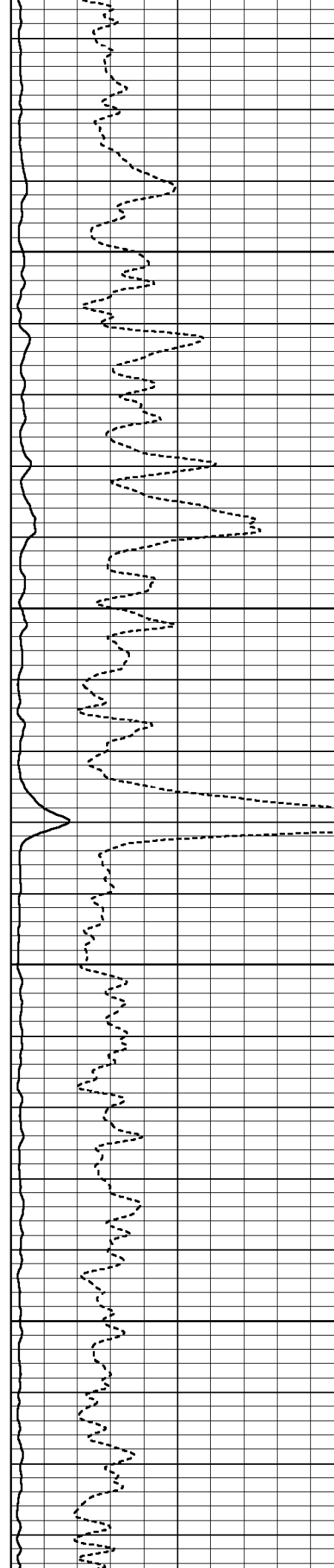
360	TRAVEL TIME (usec)	160	TENSION	0	AMP AMPLITUDE (mV)	10	200	MSG	1200
0	Gamma Ray (GAPI)	200	0	(lb)3000	0	AMPLITUDE (mV)	100		
-9	CCL	1							

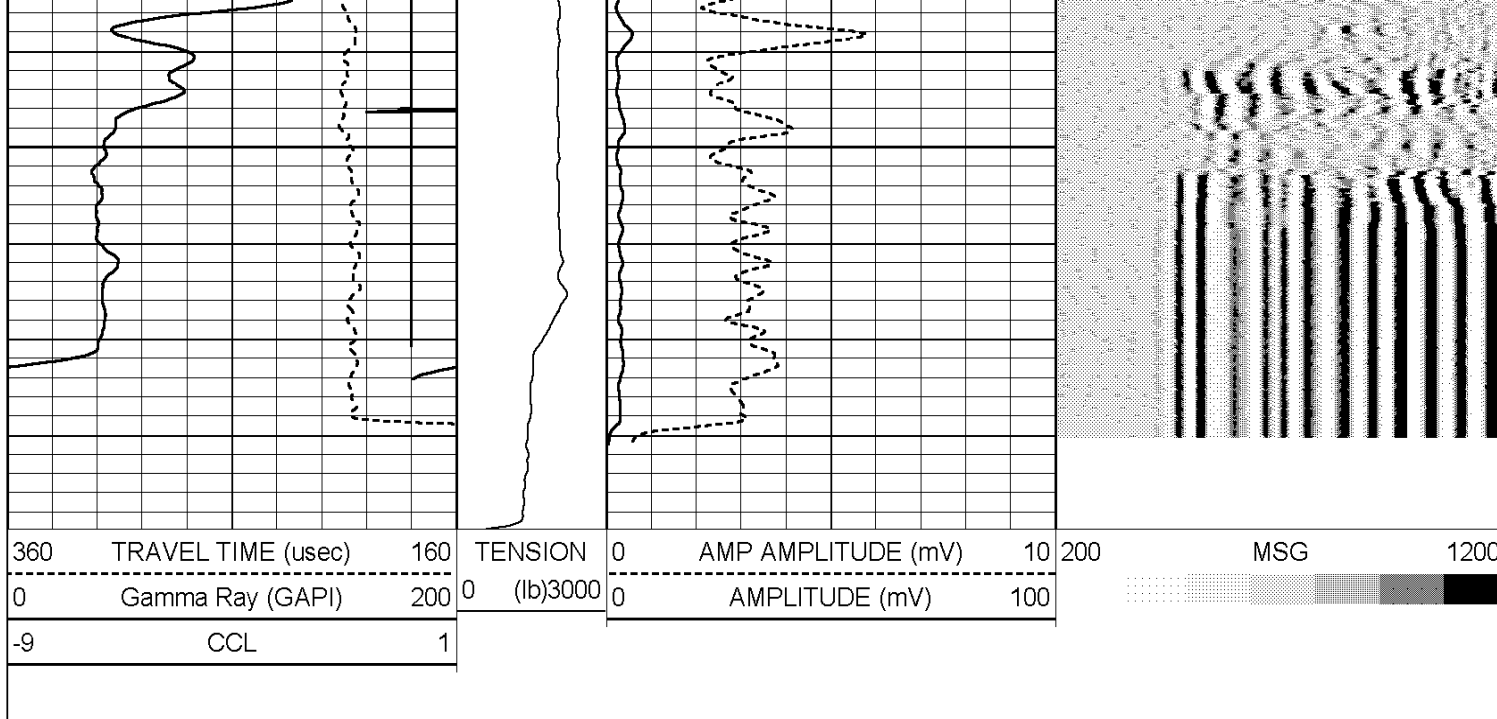




8100

8200





HALLIBURTON

ACOUSTIC CEMENT BOND LOG

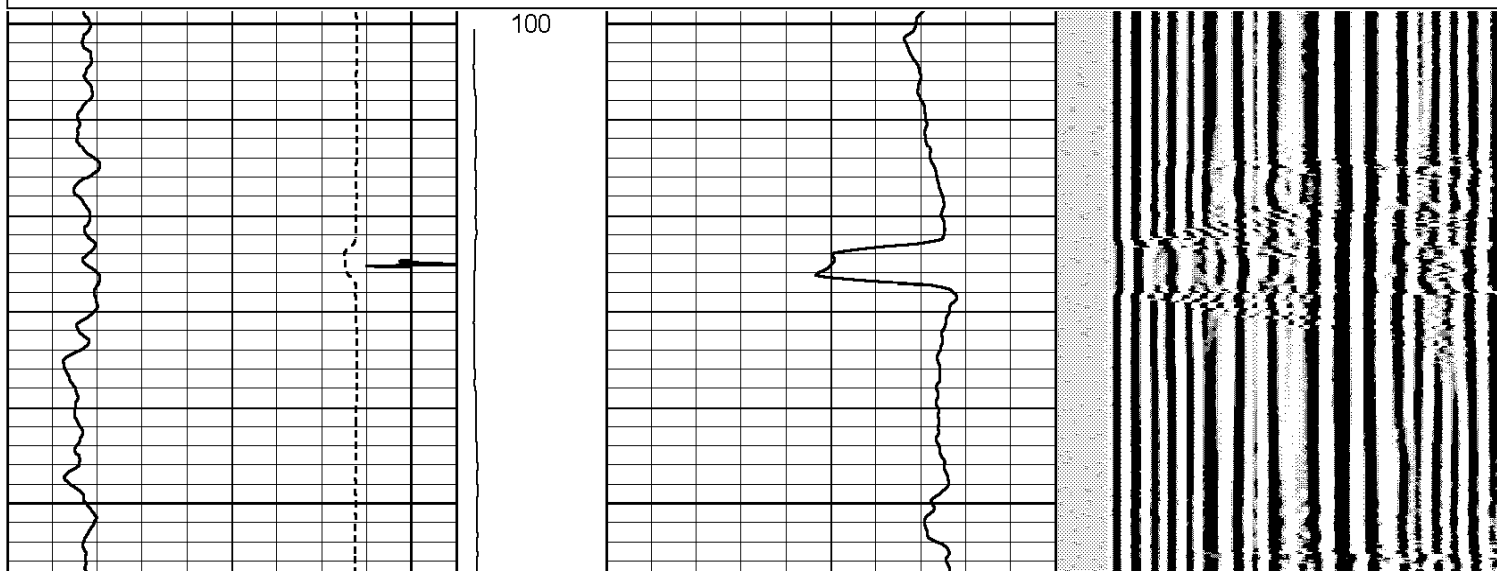
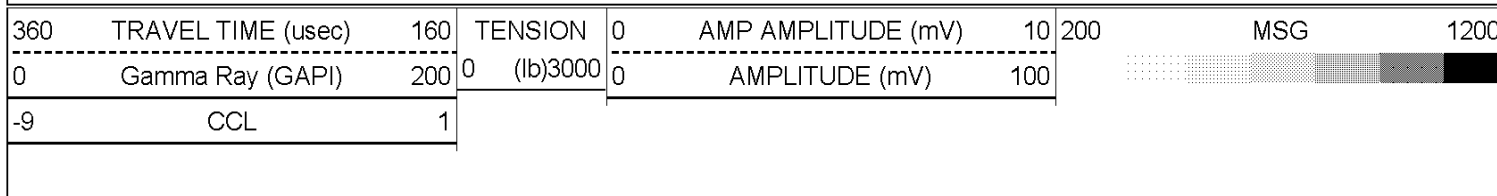
REPEAT LOG SECTION
5"=100'

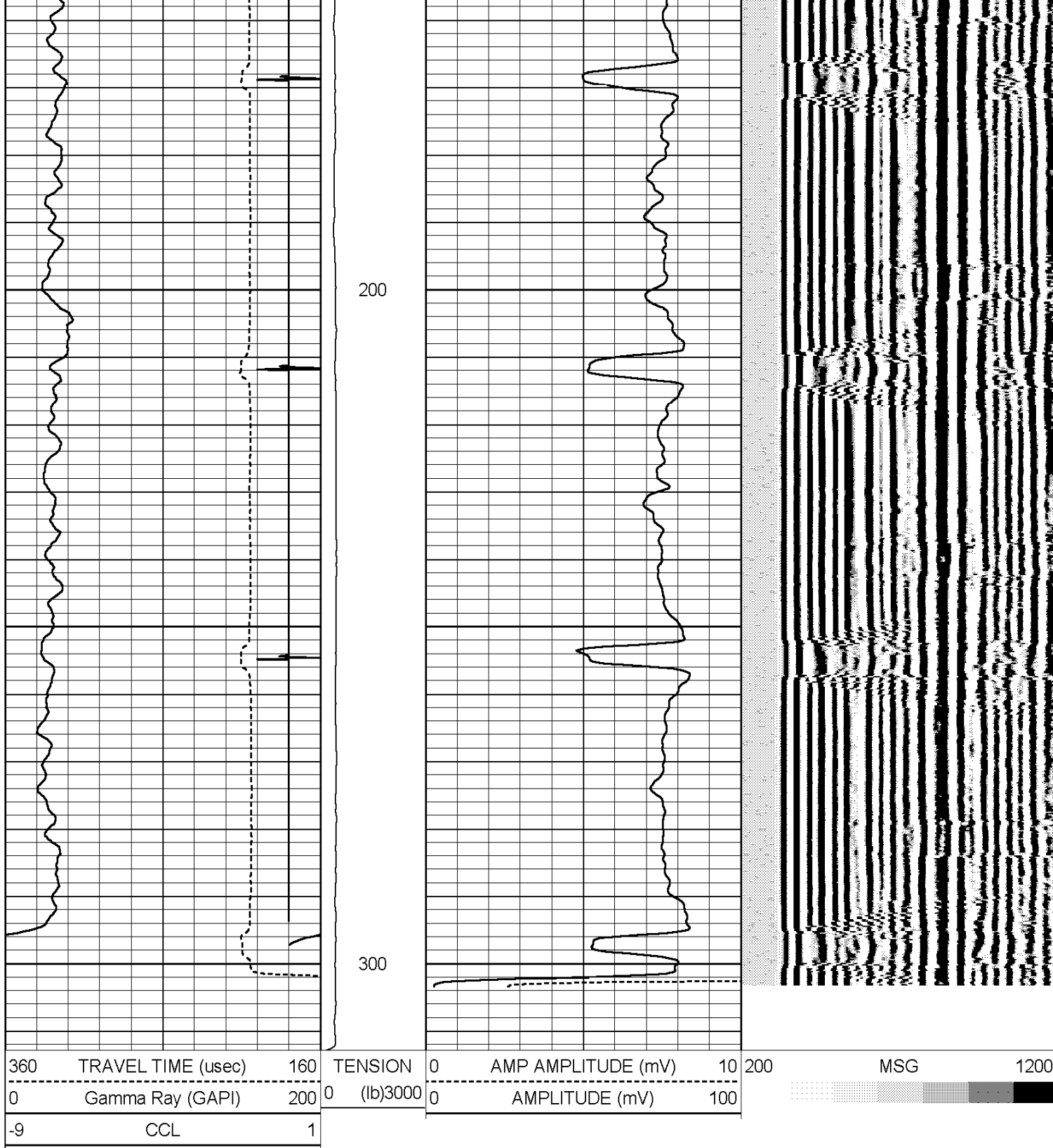
HALLIBURTON

ACOUSTIC CEMENT BOND LOG

FREE PIPE LOG SECTION
5"=100'

Database File: rwf_324_32_cbl.db
 Dataset Pathname: RULISON/RWF_324_3/run1/F_PIPE1
 Presentation Format: cbl_main
 Dataset Creation: Wed Jun 04 10:08:26 2008 by Log Halliburton Casedho
 Charted by: Depth in Feet scaled 1:240





ACOUSTIC CEMENT BOND LOG

FREE PIPE LOG SECTION

5"=100'

Calibration Report

Database File: rwf_324_32_cbl.db
Dataset Pathname: RULISON/RWF_324_3/run1/MAIN_CBL
Dataset Creation: Wed Jun 04 13:00:34 2008

Gamma Ray Calibration Report

Serial Number: 482
 Tool Model: CBL_DC
 Performed: Wed Jun 04 09:46:06 2008

 Calibrator Value: 252.0 GAPI

 Background Reading: 151.4 cps
 Calibrator Reading: 655.9 cps

 Sensitivity: 0.4994 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 482
 Tool Model: CBL_DC

 Calibration Casing Diameter: 4.500 in
 Calibration Depth: 272.448 ft

Master Calibration, performed Wed Jun 04 10:50:59 2008:

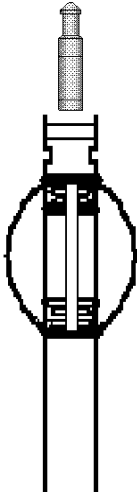
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.011	1.467	2.000	82.000	47.469	0.593
CAL						
5'	-0.011	1.075	2.000	82.000	73.609	2.839

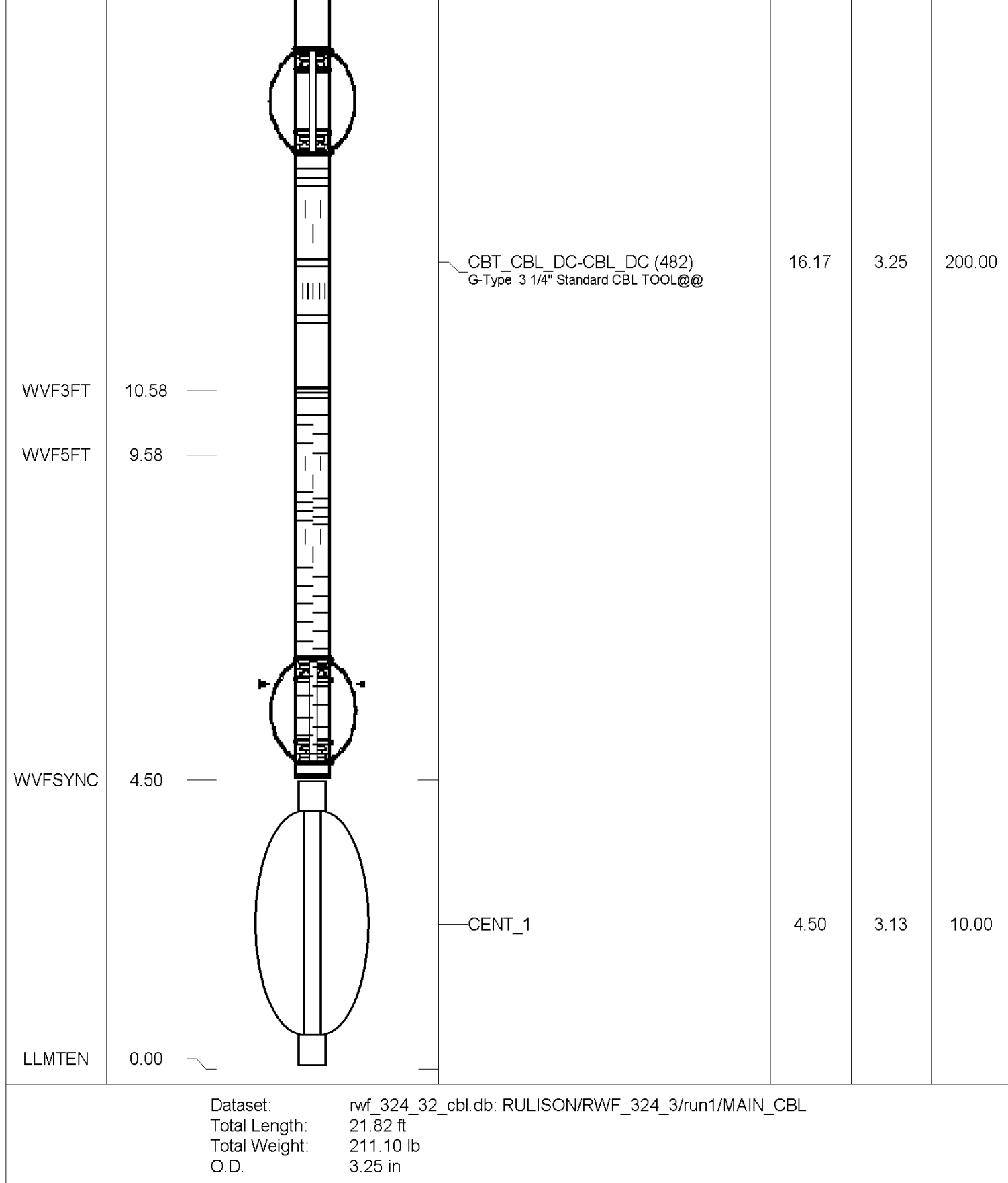
Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

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

Air Zero Calibration, performed Thu May 15 21:07:17 2008:

	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)
CCL	19.00		STNDRD Standard Cable Head - F.N. 1 3/8"	1.15	1.44	1.10
GR	16.83					



Company	WILLIAMS PRODUCTION RMT CO.		
Well	RWF 324-32		
Field	RULISON		
County	GARFIELD	State	CO
		ACOUSTIC CEMENT	

