



SUPERIOR
Black Lick, Pa.
Mercer, Pa.
Wooster, Oh.
Cleveland, Ok.
Trinidad, Co.

COMPENSATED DENSITY NEUTRON LOG

Company XTO Energy Inc.
Well Hill Ranch 16-09 VX
Field Purgatoire River
County Las Animas State Colorado

Location: API #: 05 071 09207 00

3354' FNL & 511' FEL

SEC 16 TWP 35S RGE 67W

Permanent Datum Ground Level Elevation 7824'
Log Measured From Ground Level
Drilling Measured From Ground Level

Other Services
DIL
Elevation
K.B. -----
D.F. -----
G.L. 7824'

Date 4-15-07

Run Number Two

Depth Driller 2335'

Depth Logger 2323'

Bottom Logged Interval 2321'

Top Log Interval Surface Casing

Casing Driller 8 5/8" @ 483'

Casing Logger 483'

Bit Size 7 7/8"

Type Fluid in Hole Water

Density / Viscosity ///

pH / Fluid Loss ///

Source of Sample ///

Rm @ Meas. Temp ///

Rmf @ Meas. Temp ///

Rmc @ Meas. Temp ///

Source of Rmf / Rmc ///

Rm @ BHT ///

Time Circulation Stopped 8:00 P.M.

Time Logger on Bottom 11:00 P.M.

Maximum Recorded Temperature 104 DEG F

Equipment Number T0697

Location Trinidad

Recorded By M. Norton

Witnessed By Mr. Don Johnson

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Density Neutron Porosity Presented On Sandstone Matrix.

ABHV Calculated For 5 1/2" Casing

Well Directions:

Lorencito up XTO hill at white dumpster stay right, stay left @ T, at deadhorse stay right, at Y stay left, at bottom of hill stay left, stay on main road first drive thru location.

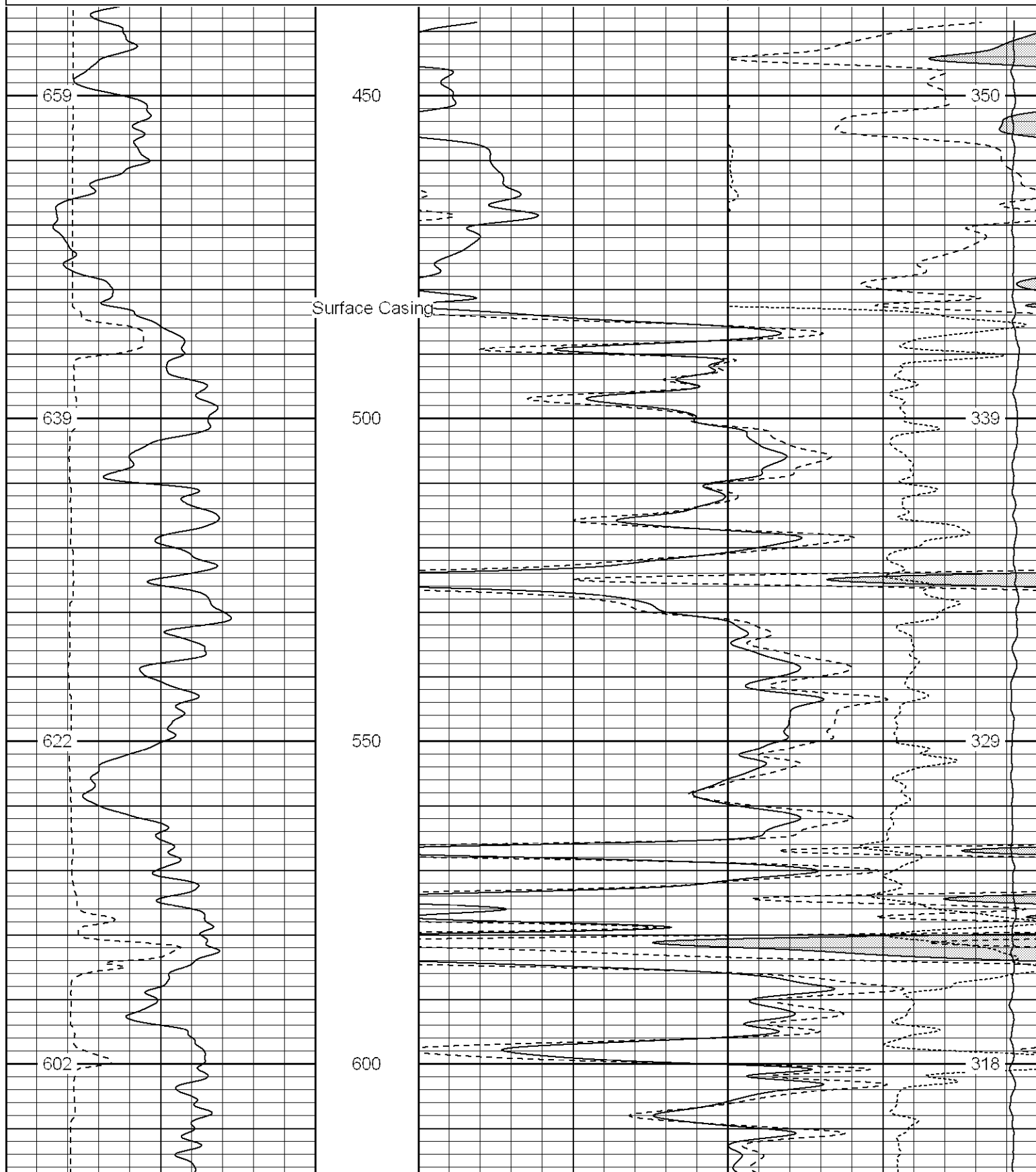


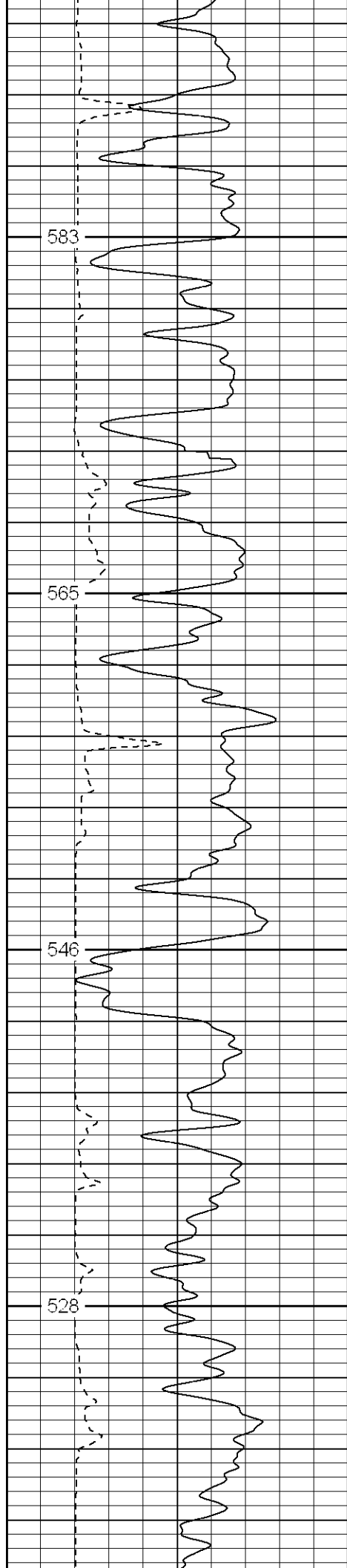
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Main Pass

Database File: xtohr1609vx.db
Dataset Pathname: pass4.1
Presentation Format: cdl
Dataset Creation: Mon Apr 16 00:25:44 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200	1	RHOB (g/cc)	2
6	DCAL (in)	16	30	DPOR (pu)	-10
			-0.5	RHOC (g/cc)	0.5
			4000	LTEN (lb)	0



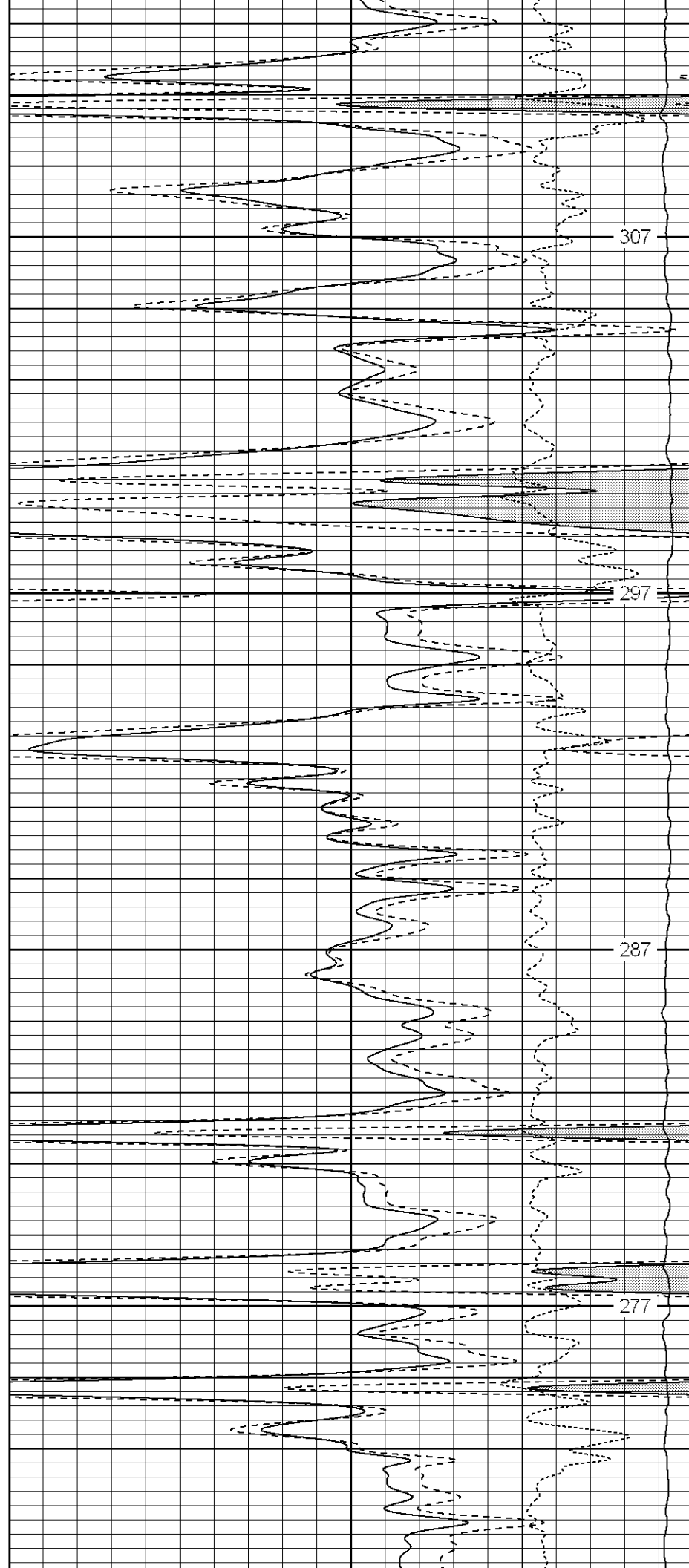


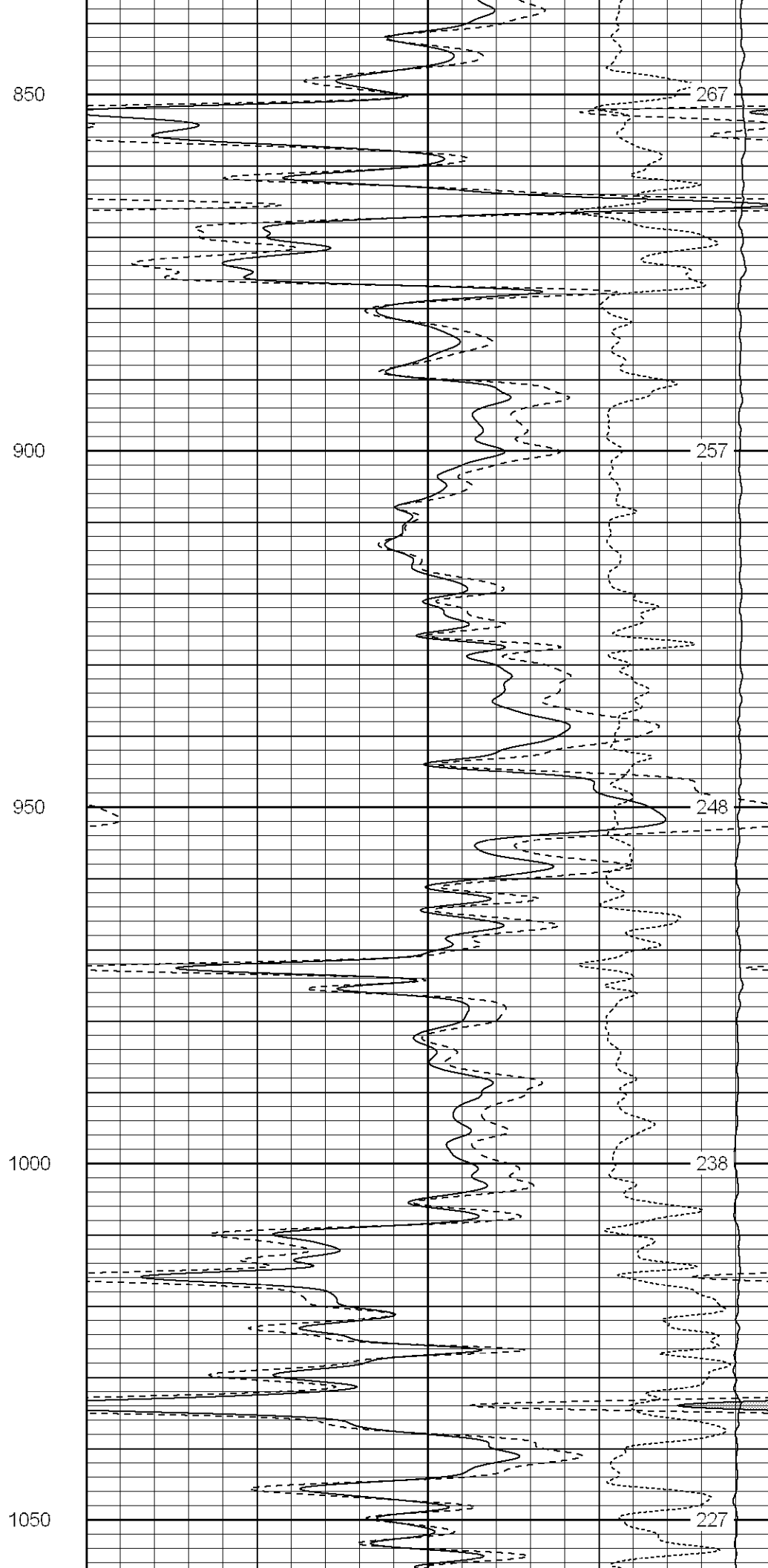
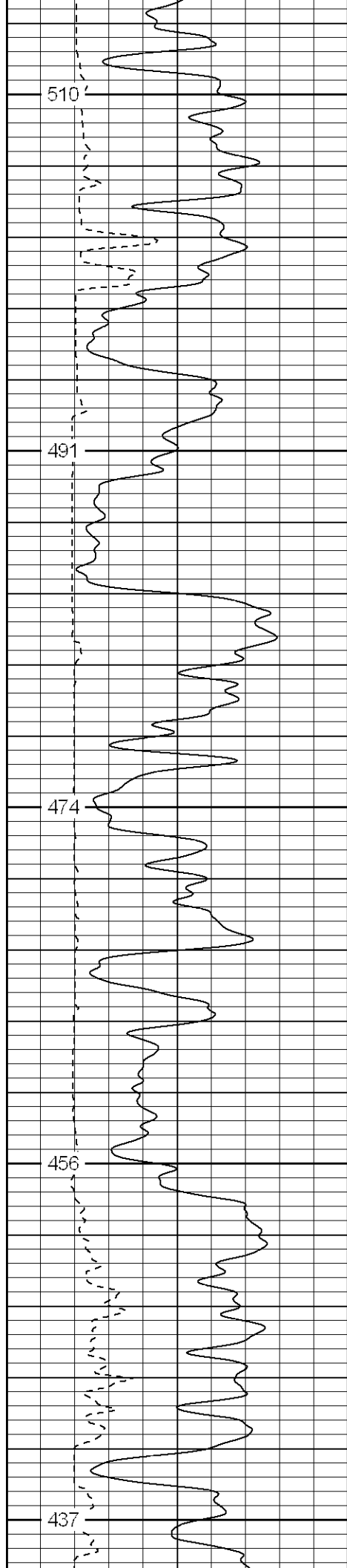
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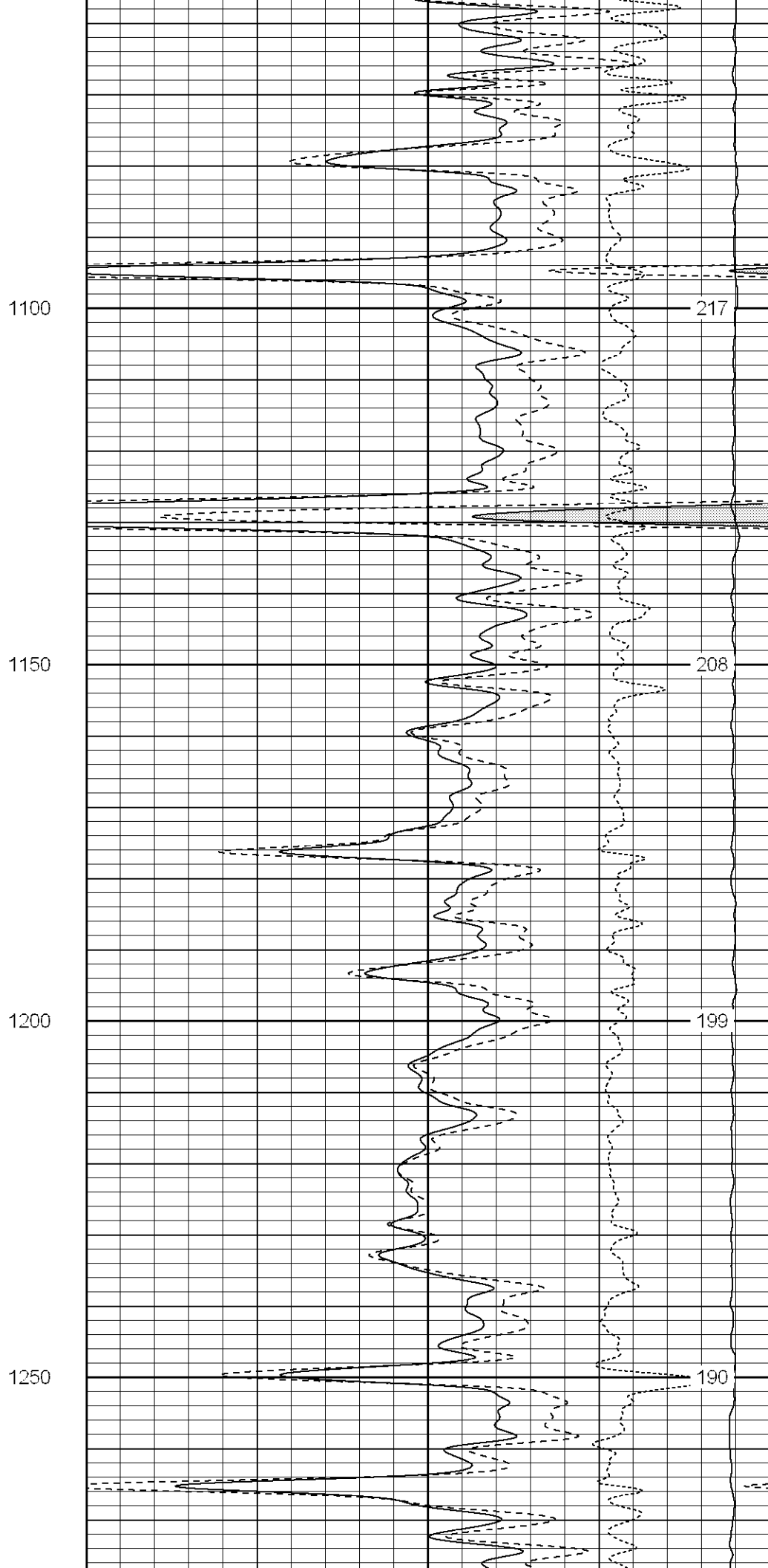
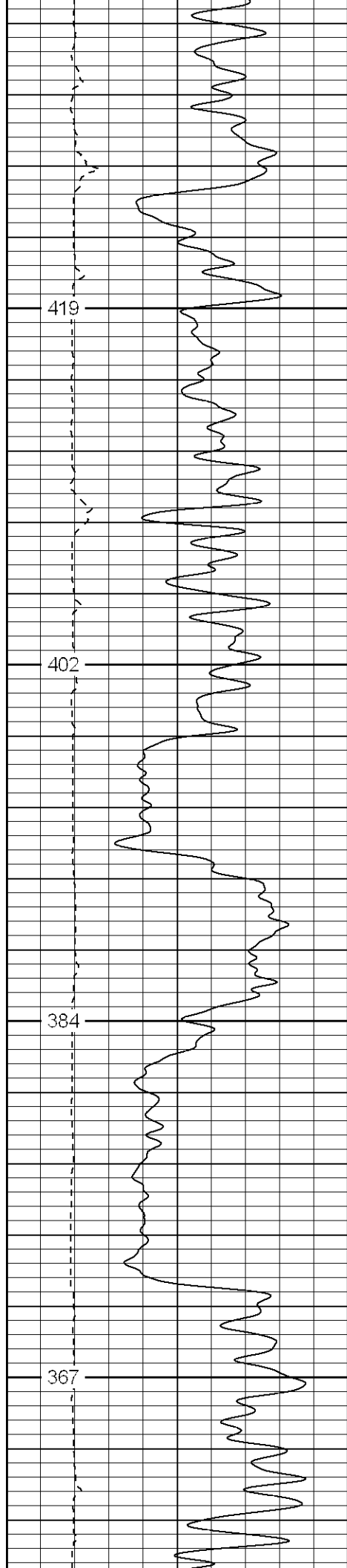
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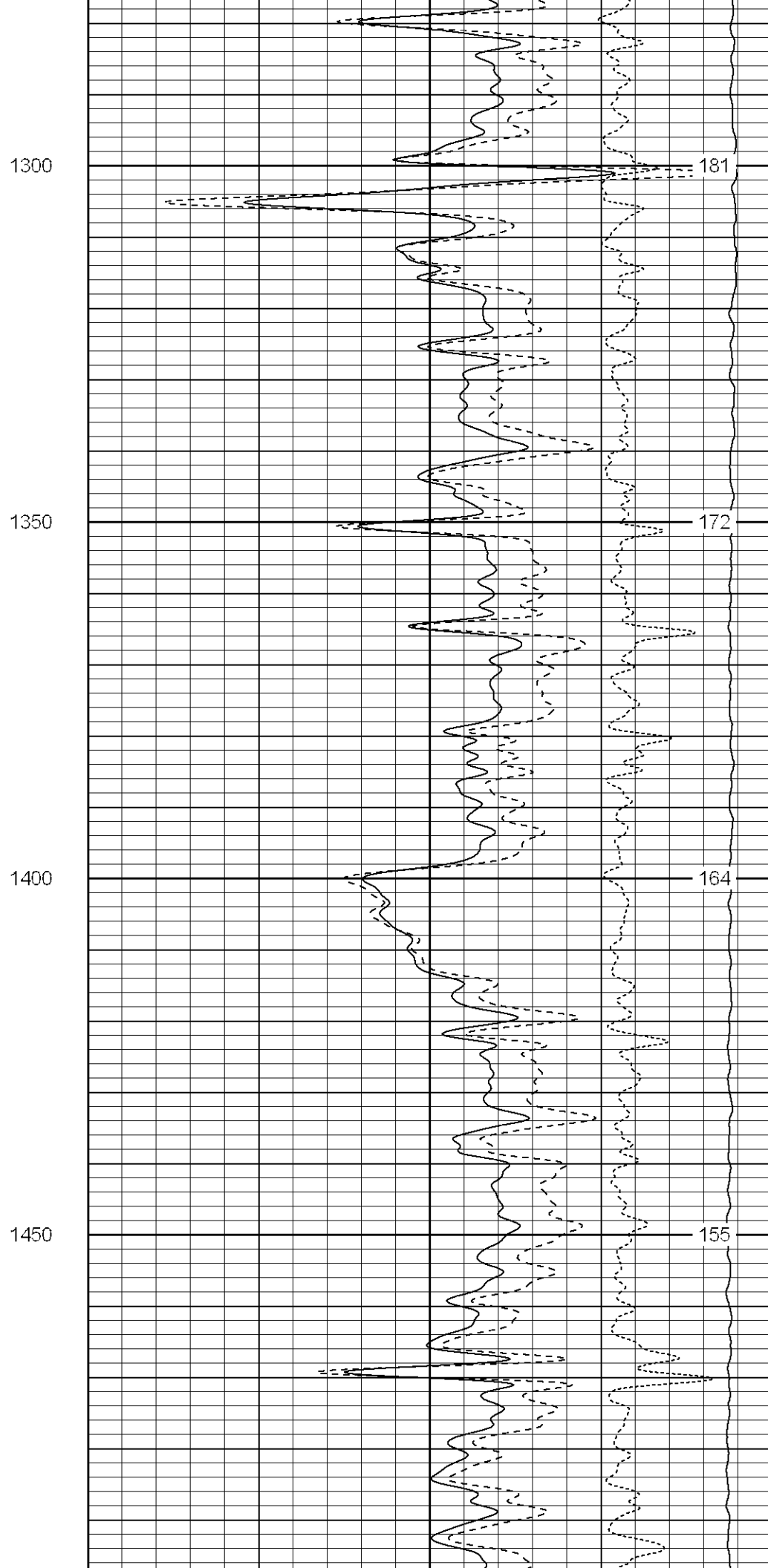
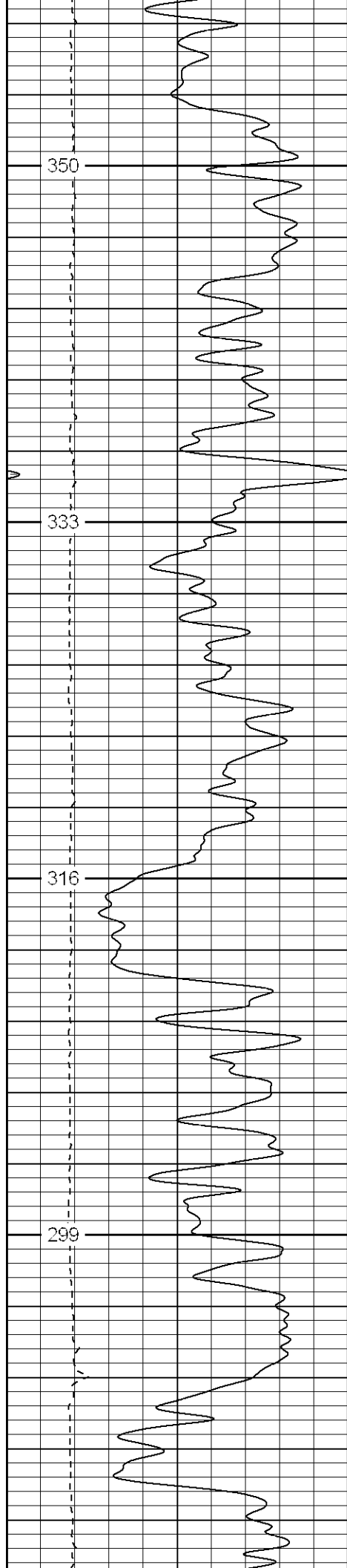
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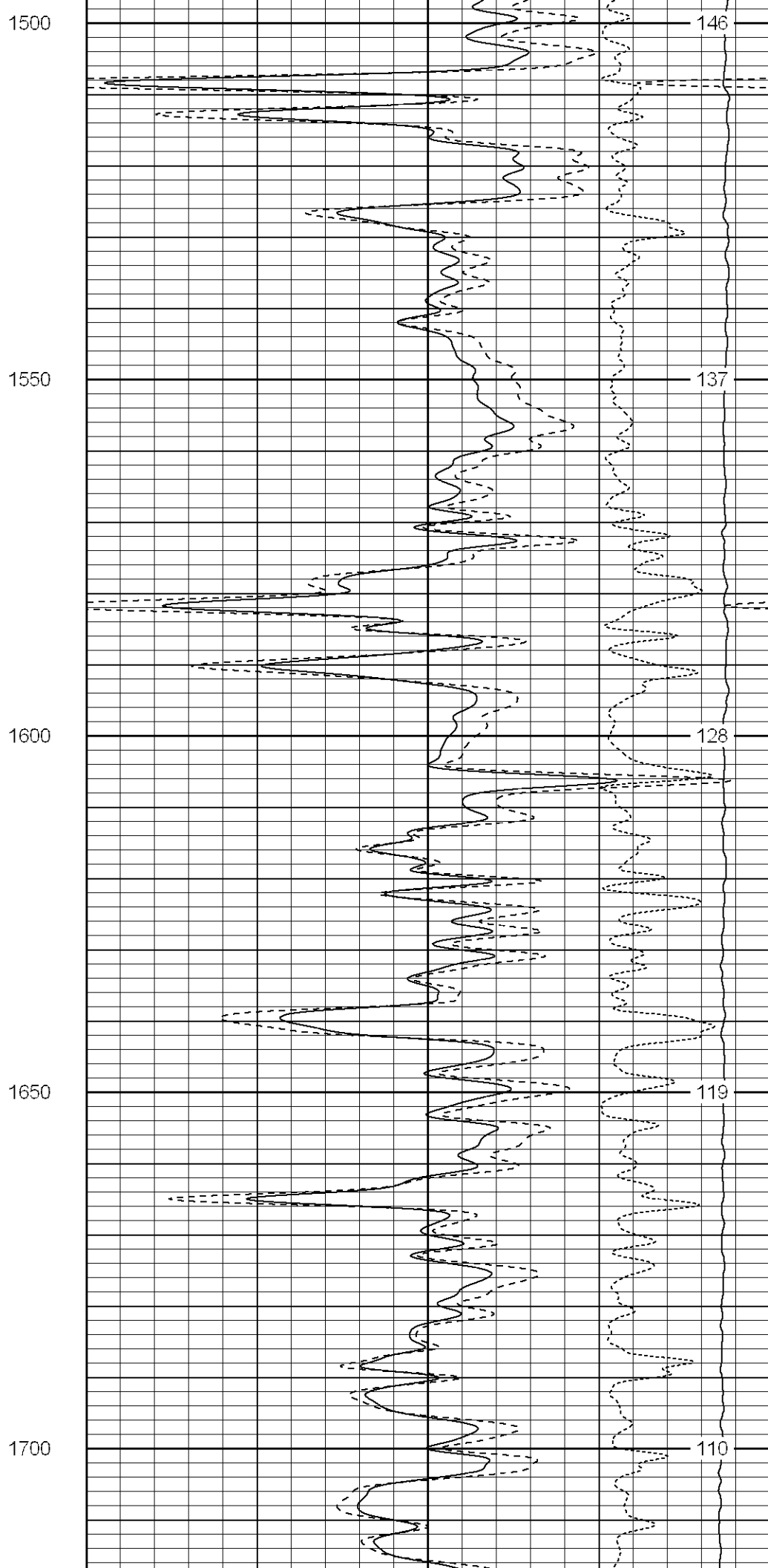
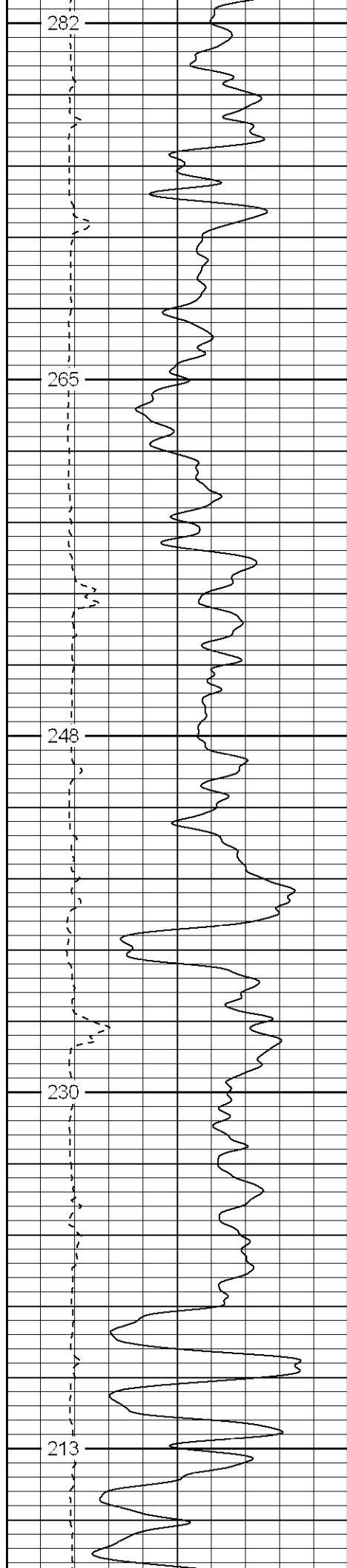
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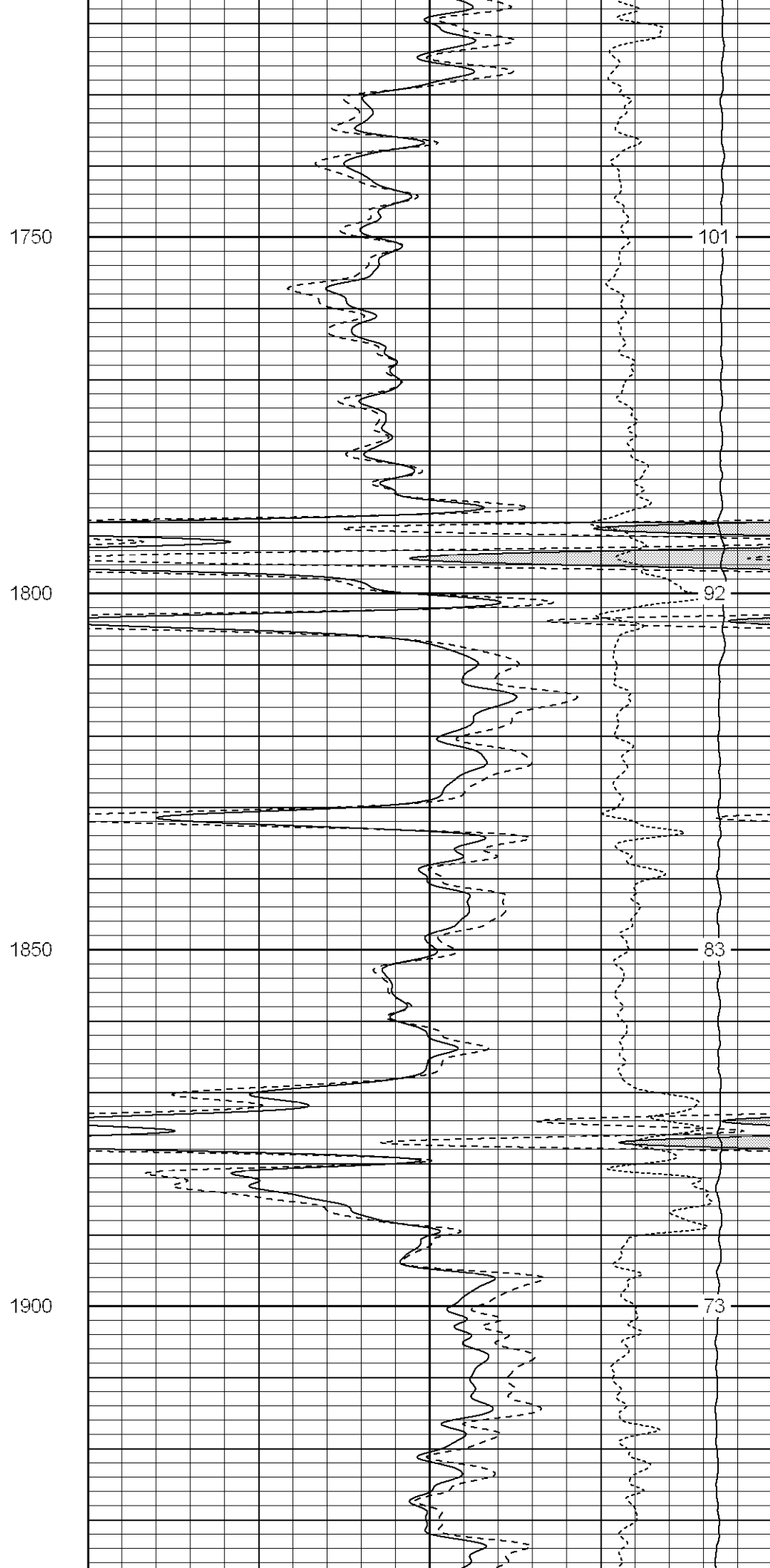
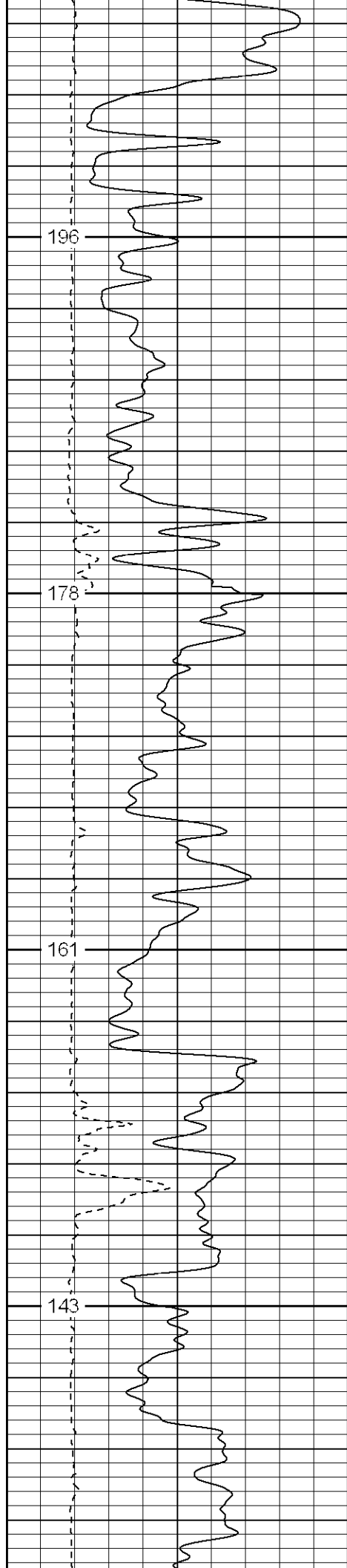


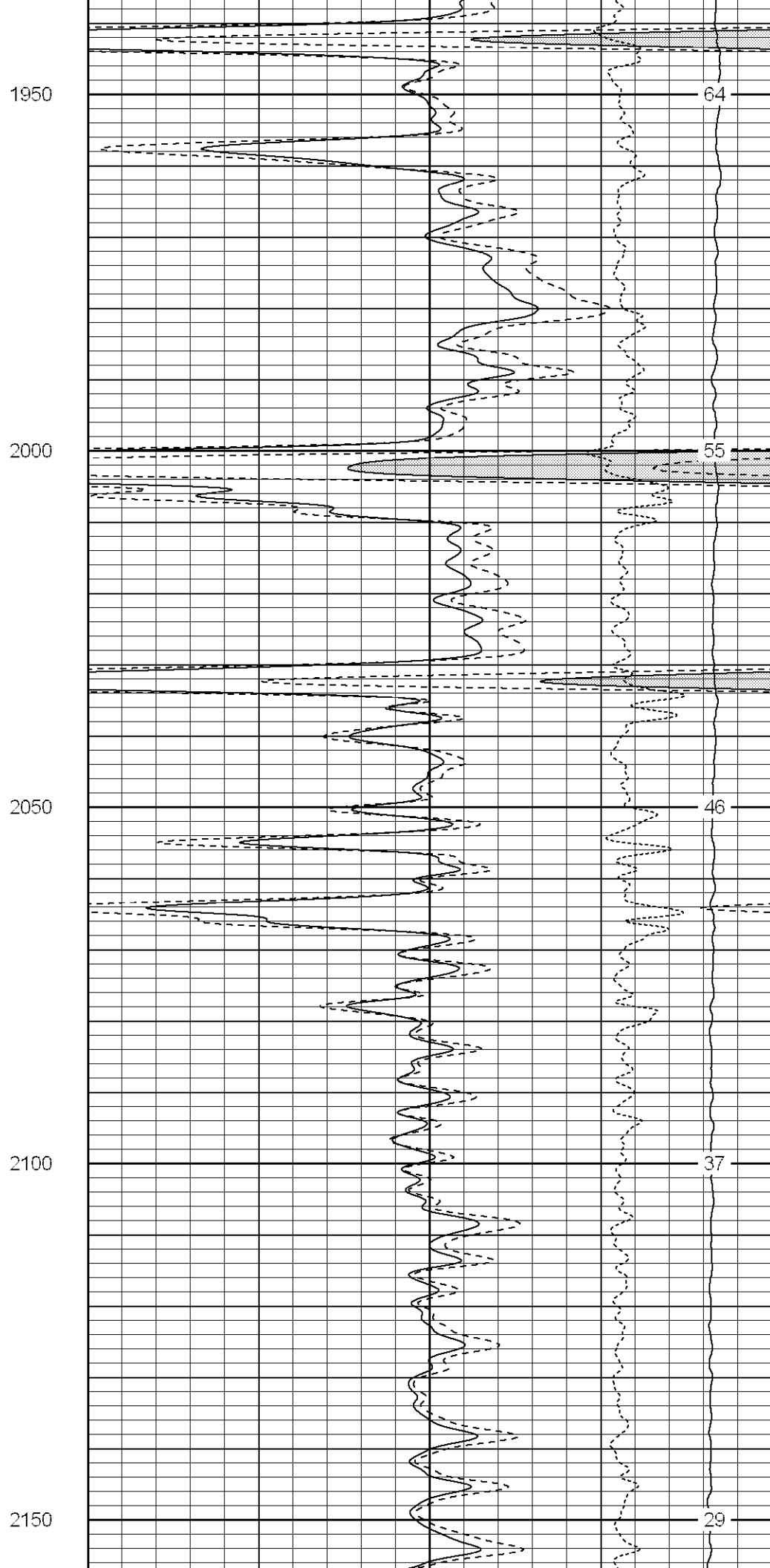
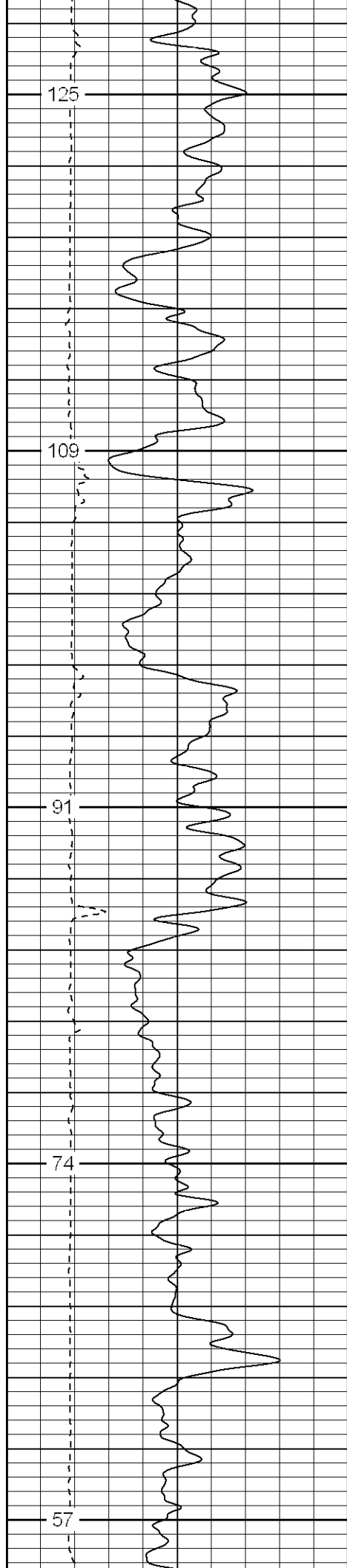


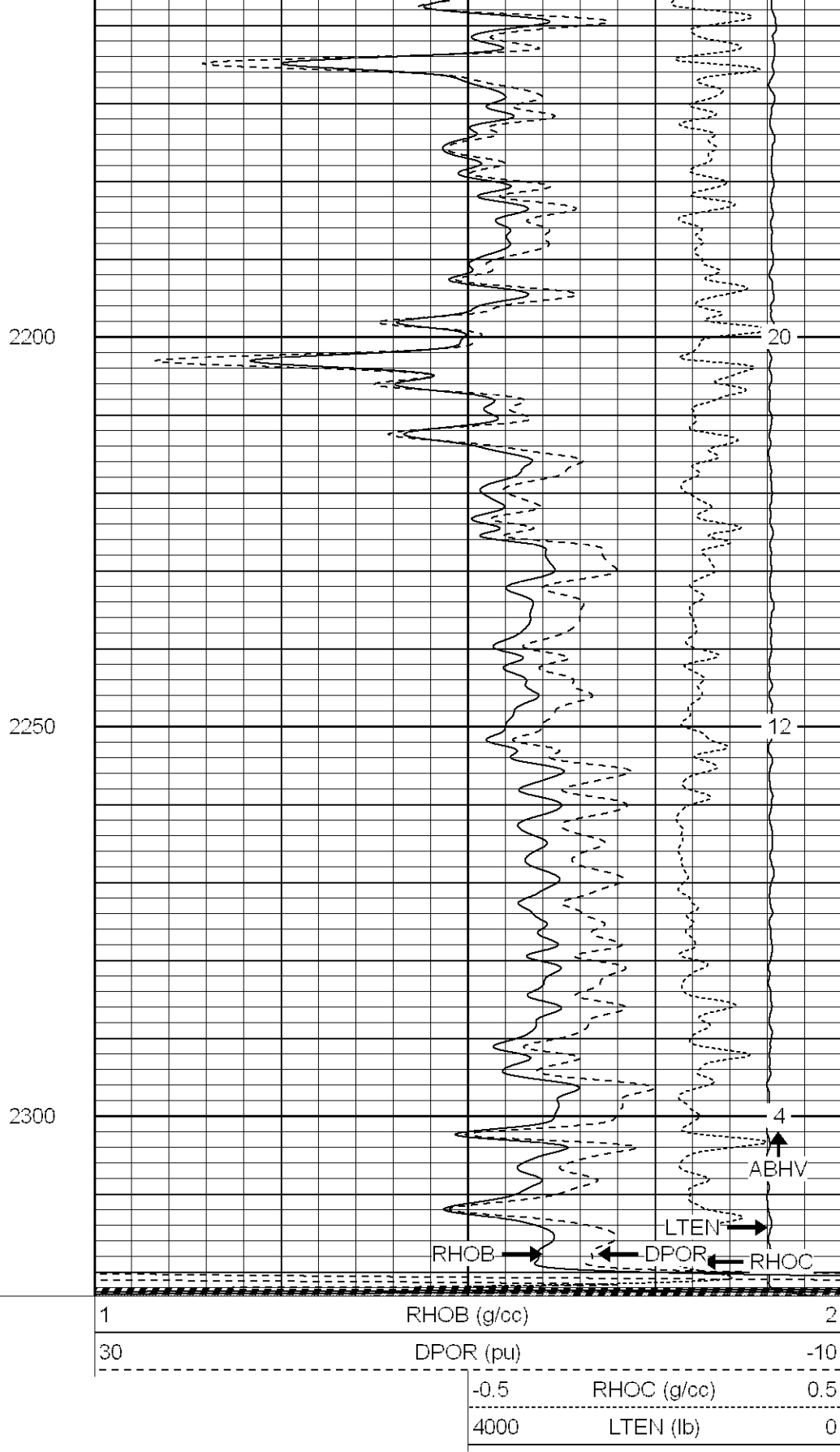
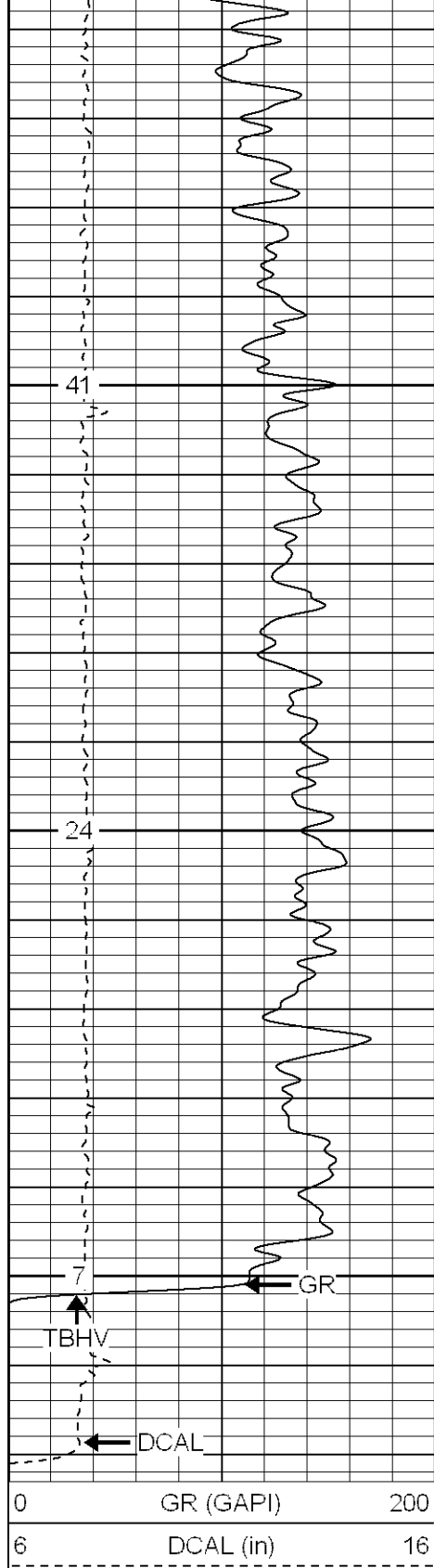










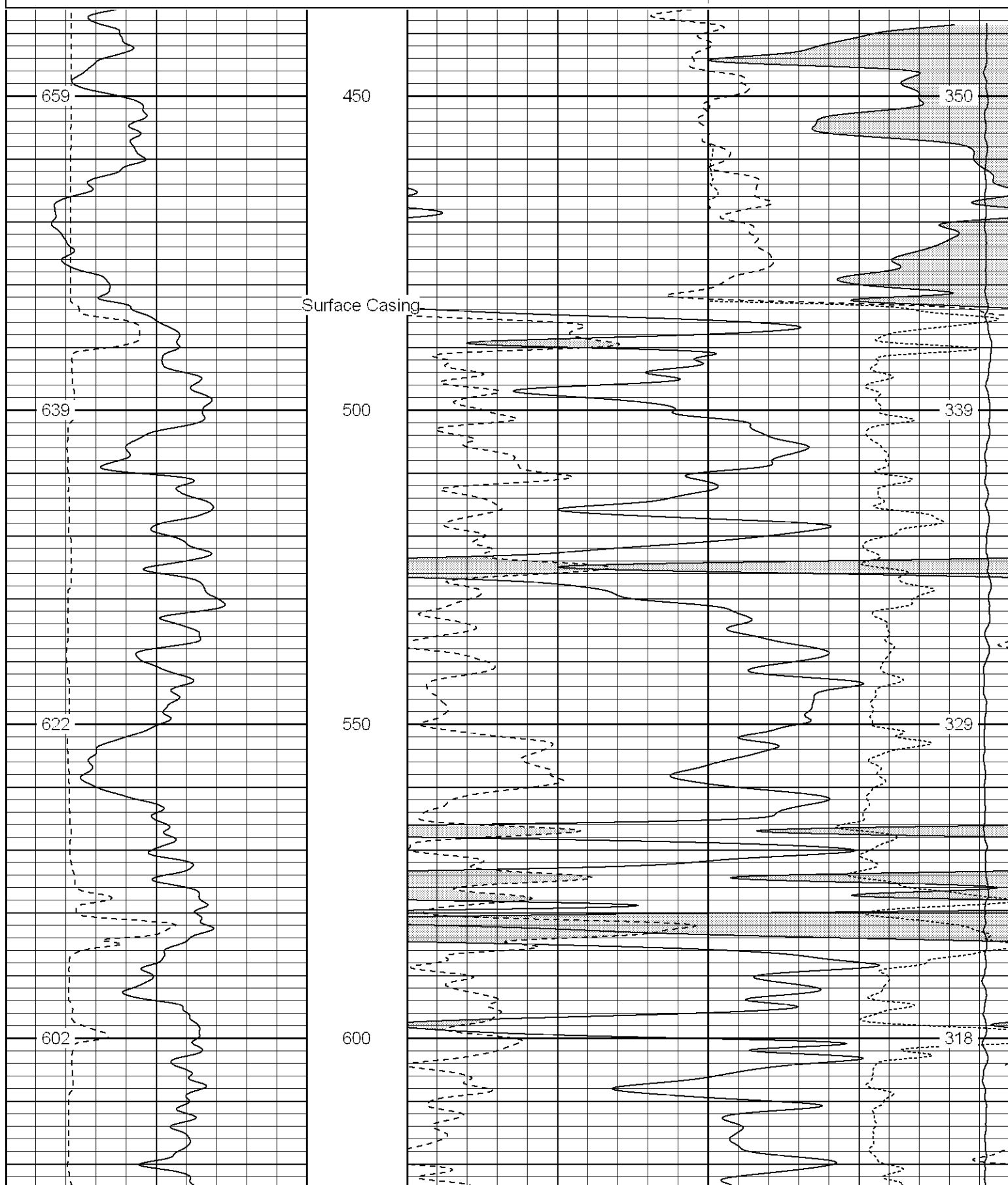


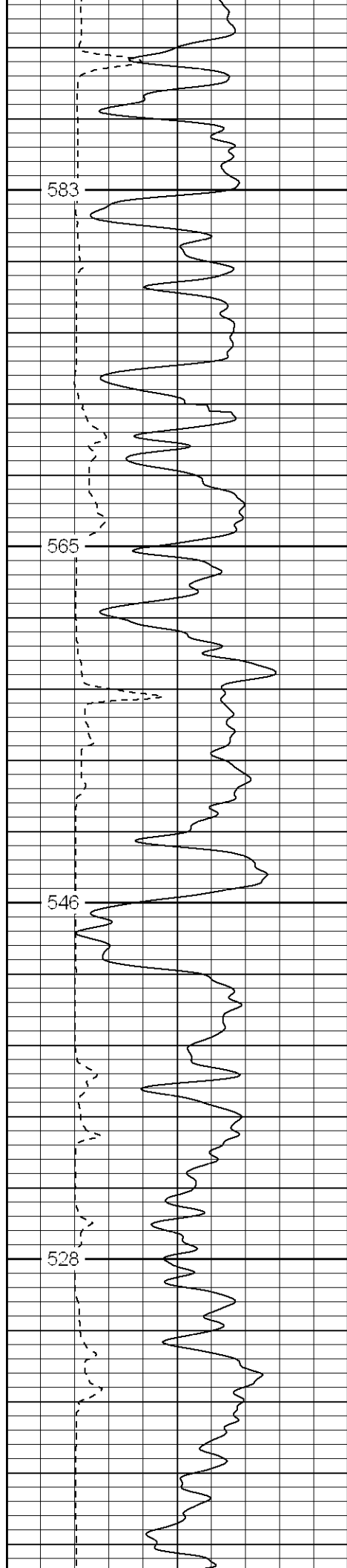
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Main Pass

0	GR (GAPI)	200	30	NPOR (pu)	-10	
6	DCAL (in)	16	30	DPOR (pu)	-10	
				-0.5	RHOC (g/cc)	0.5
				4000	LTEN (lb)	0



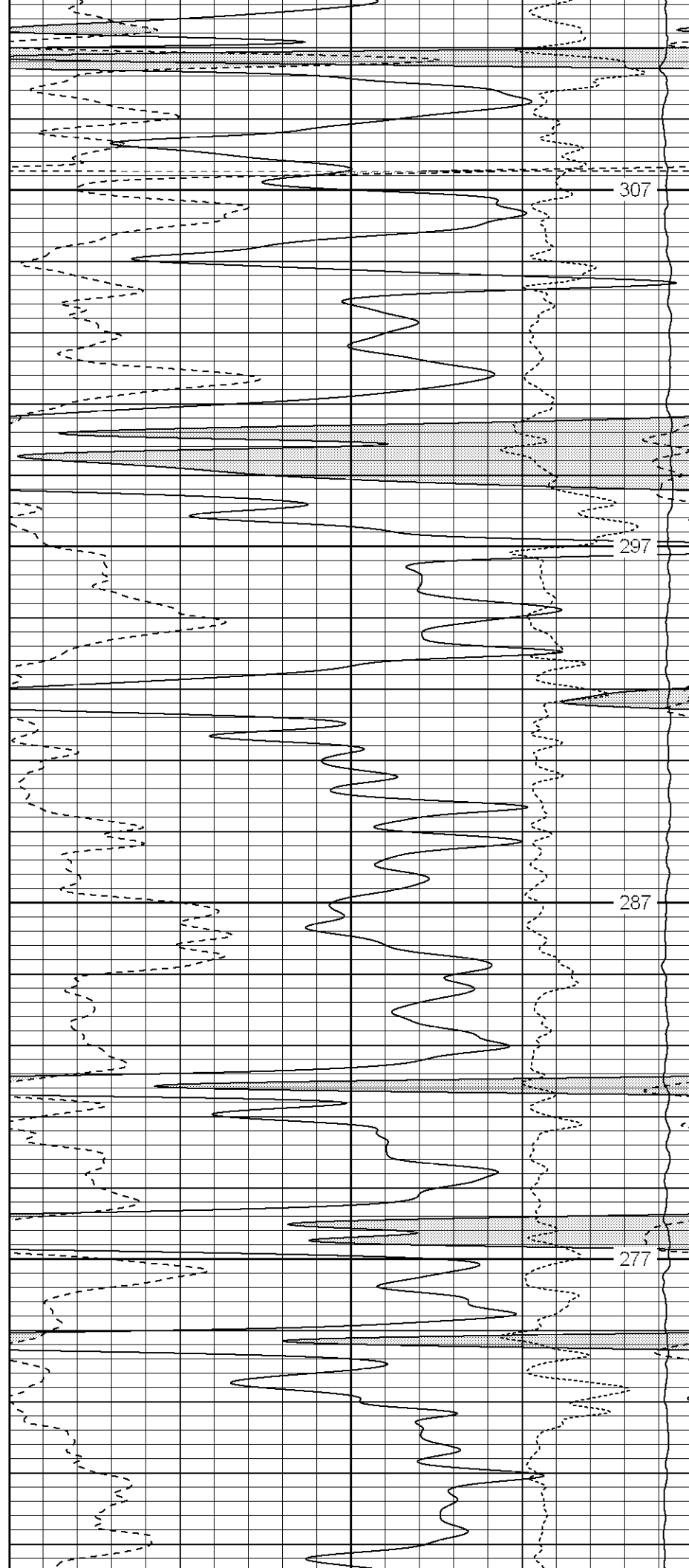


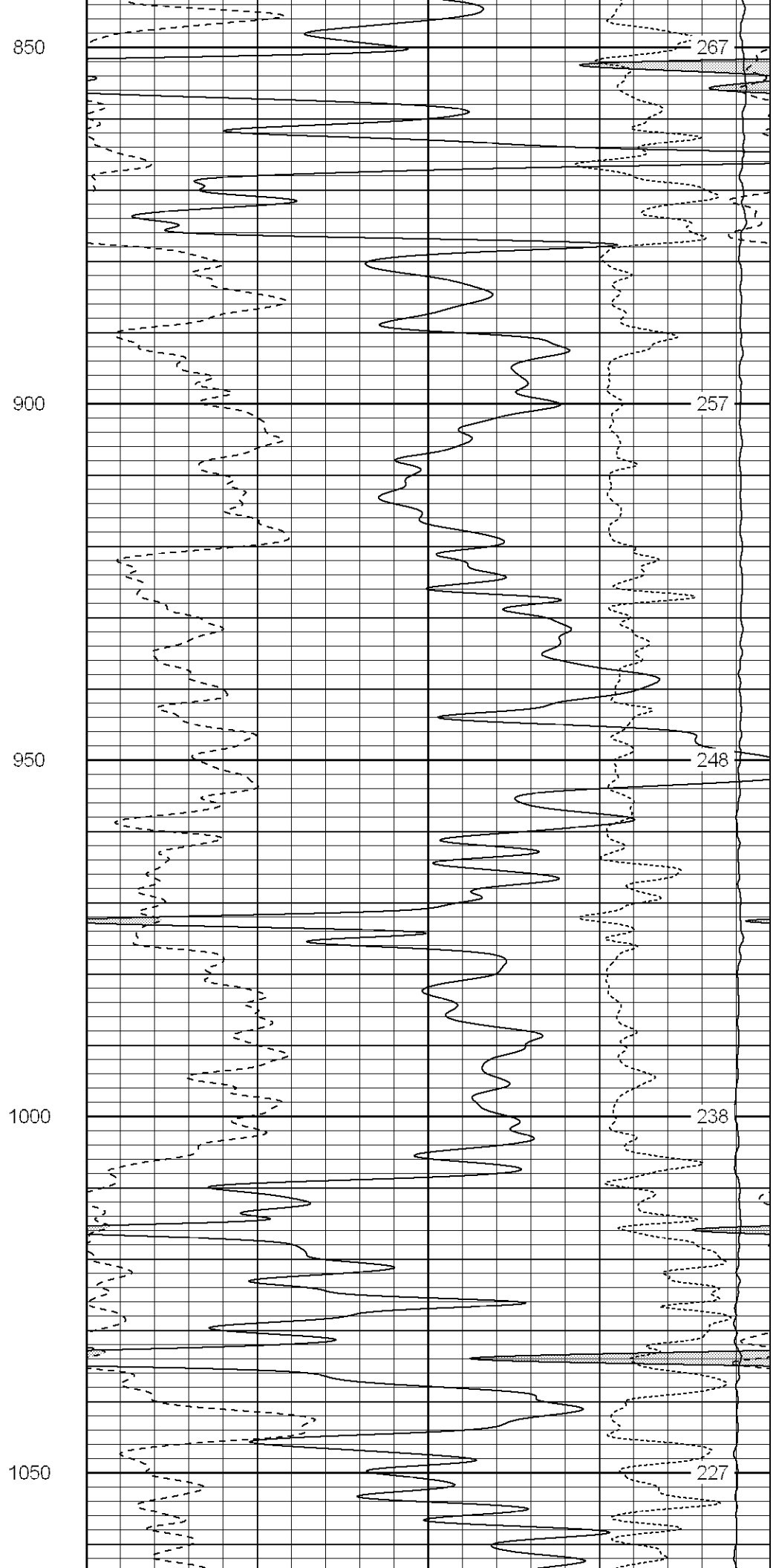
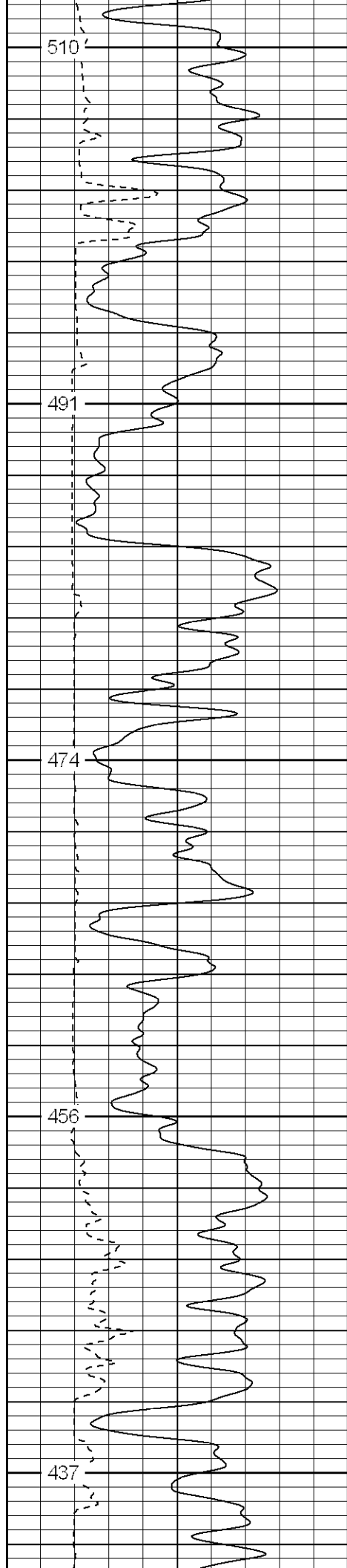
Fluid Level
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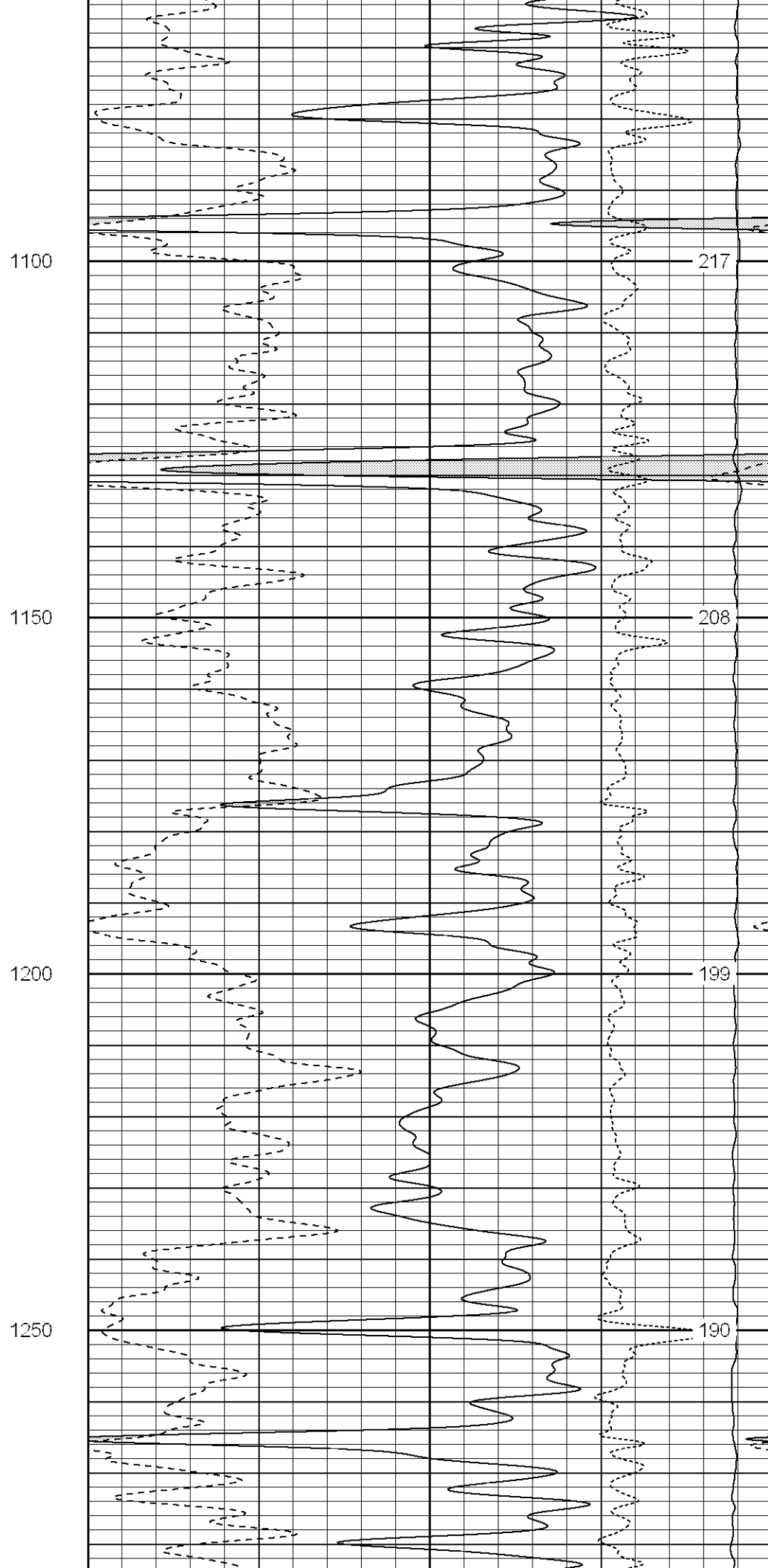
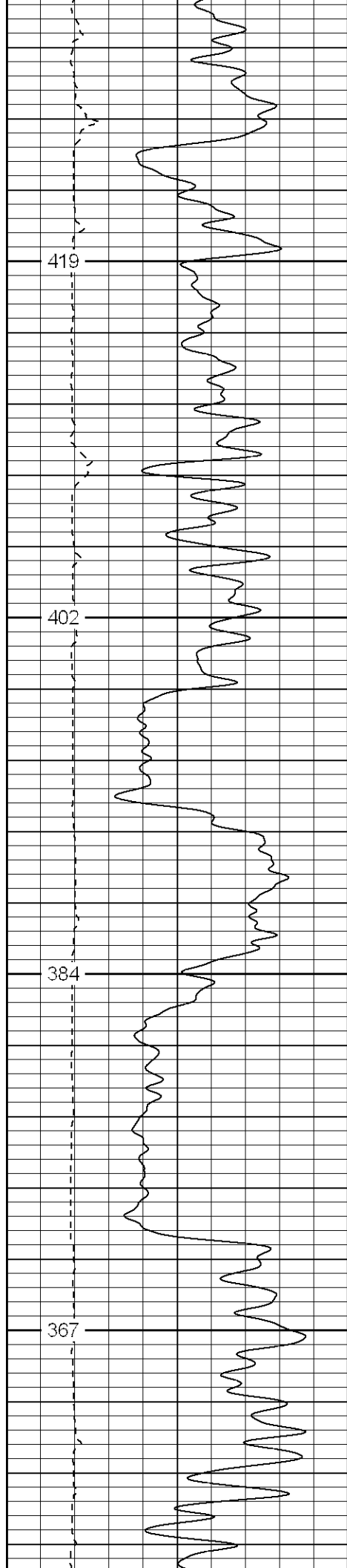
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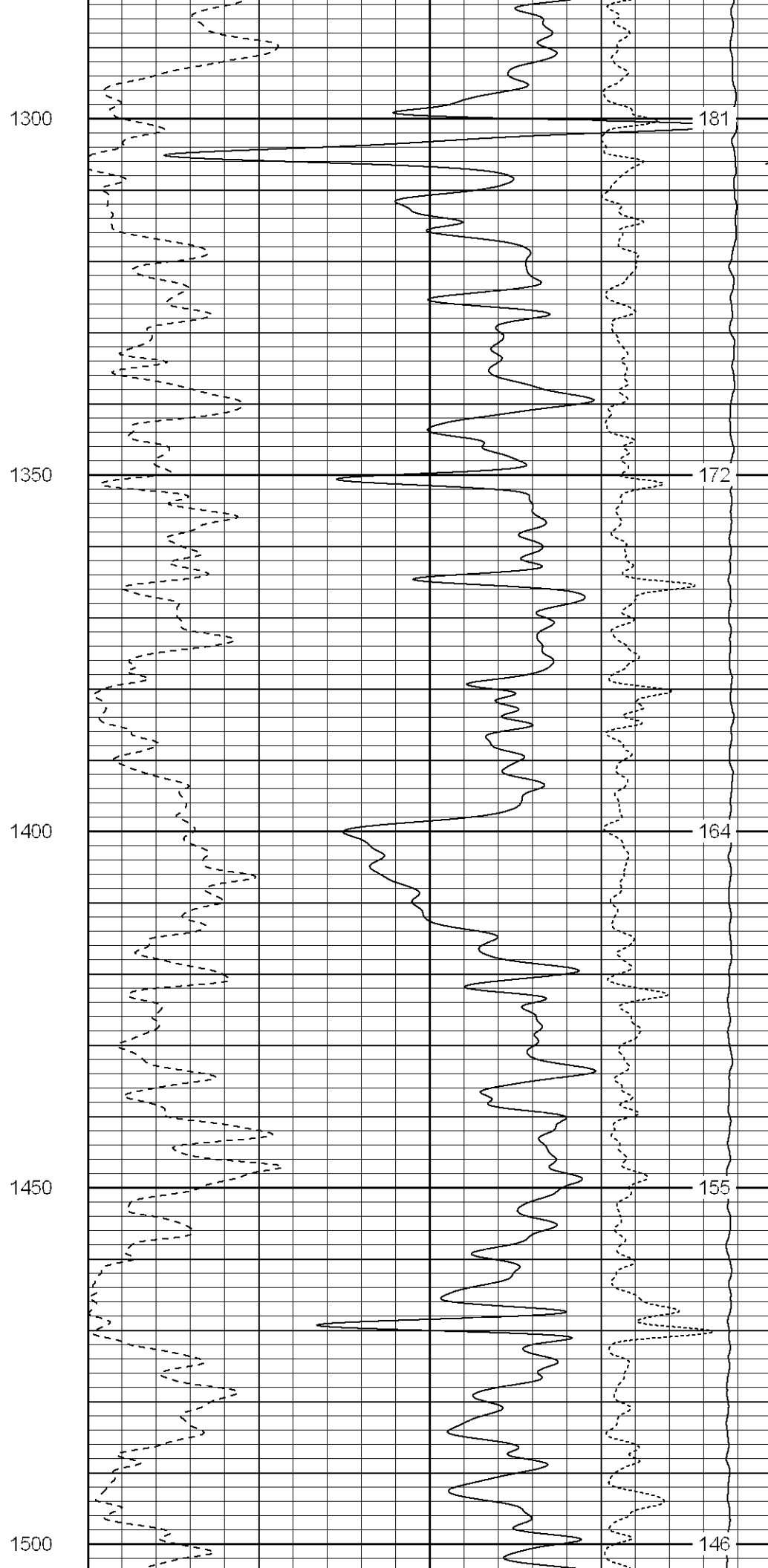
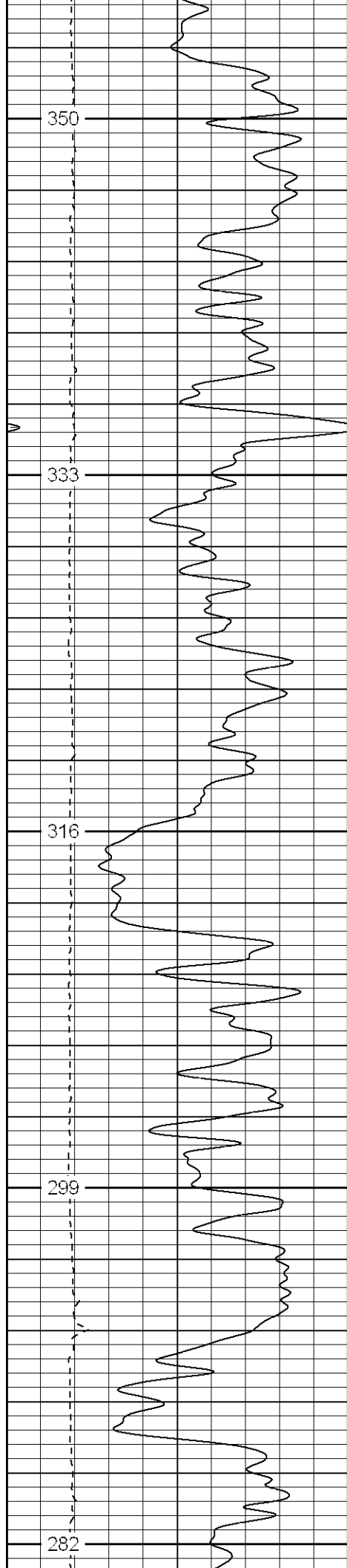
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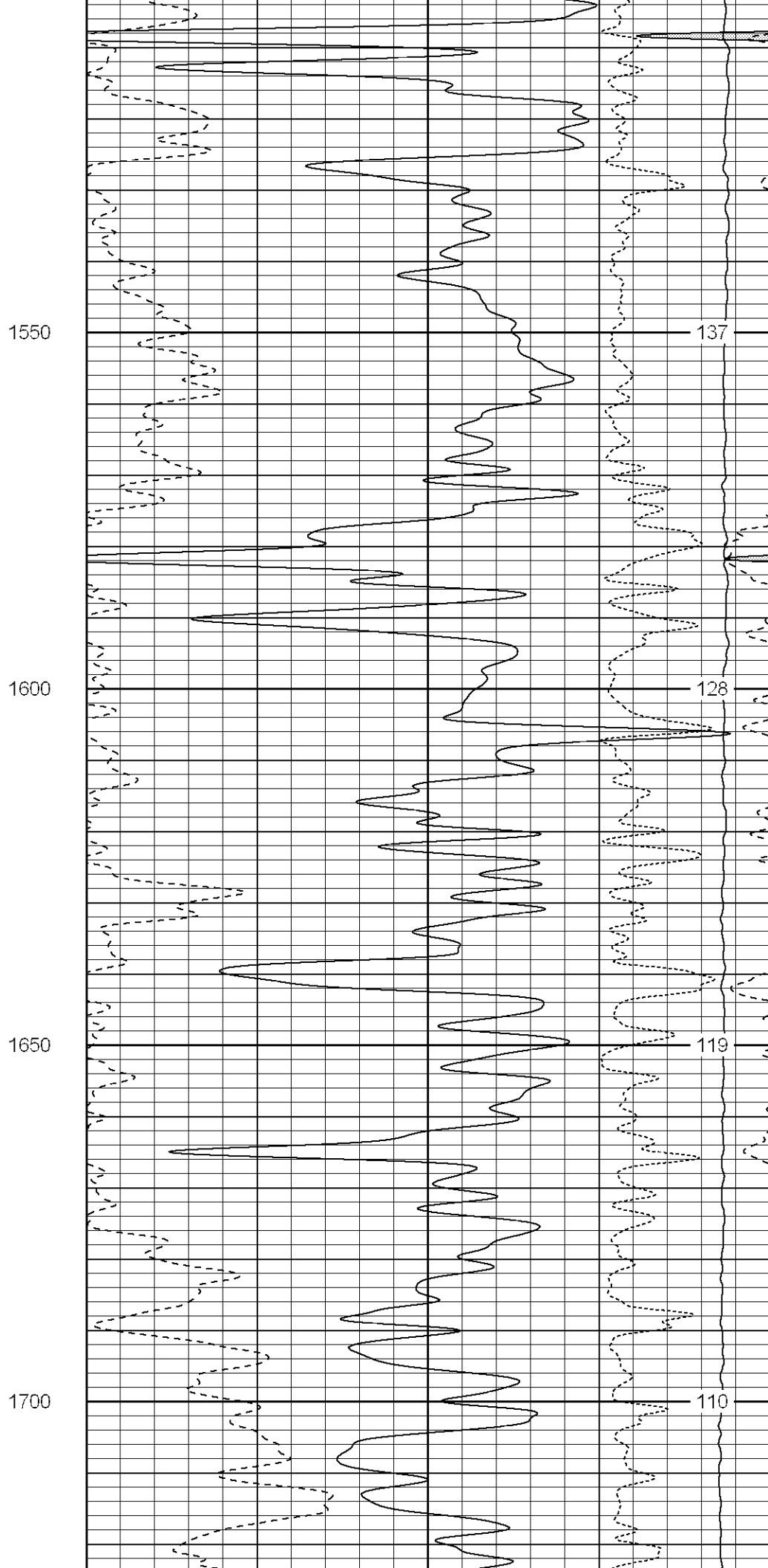
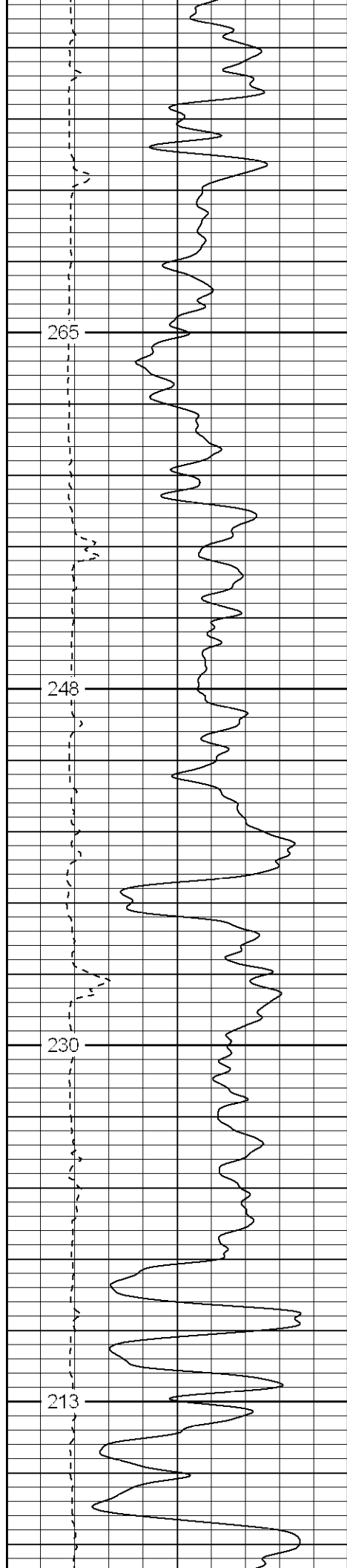
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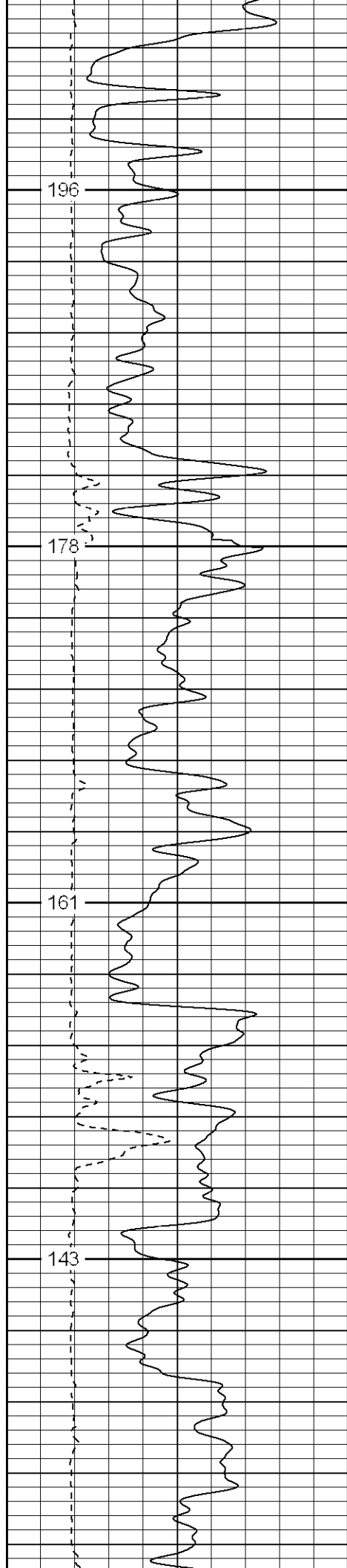










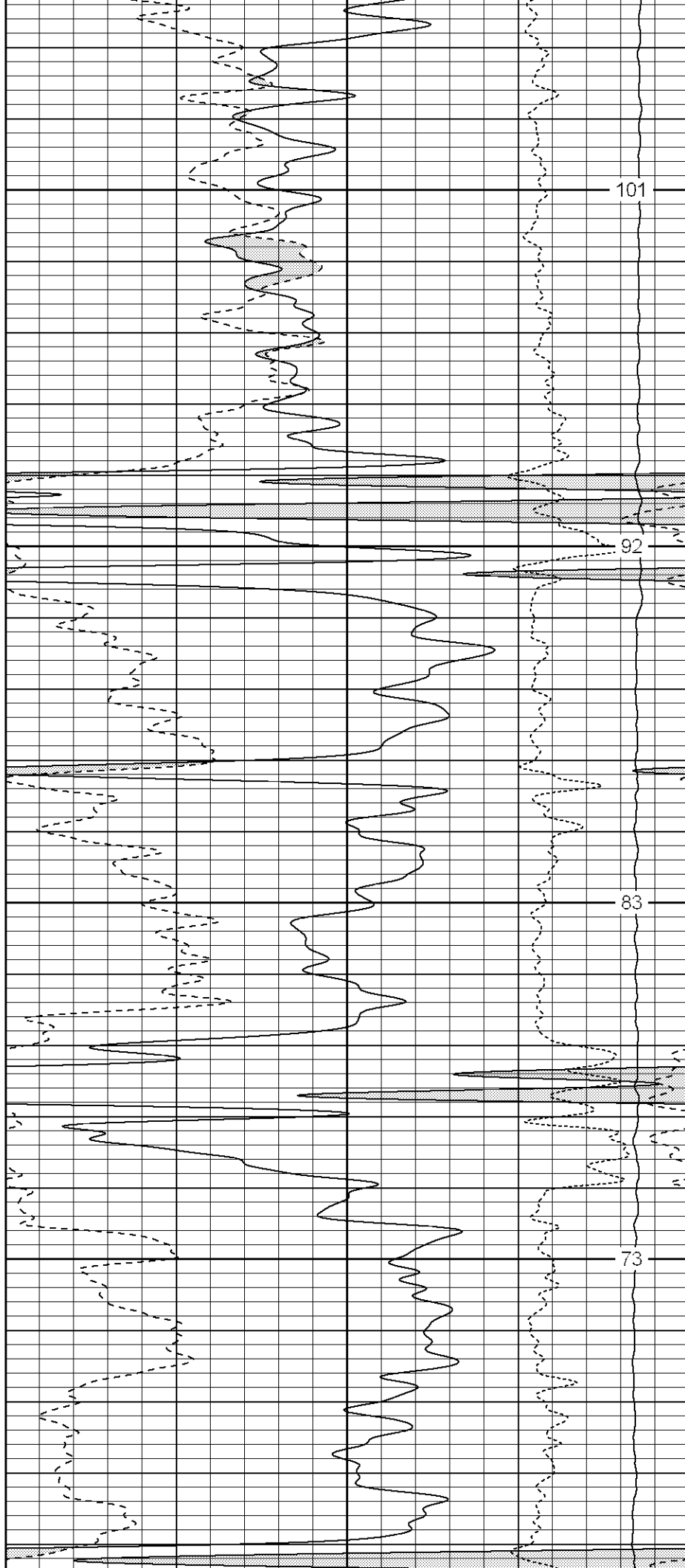


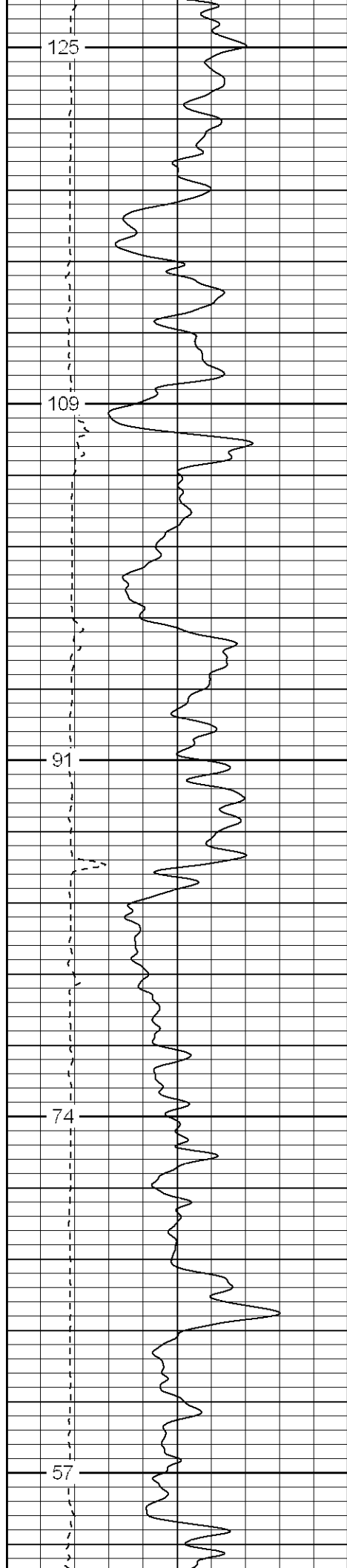
1750

1800

1850

1900





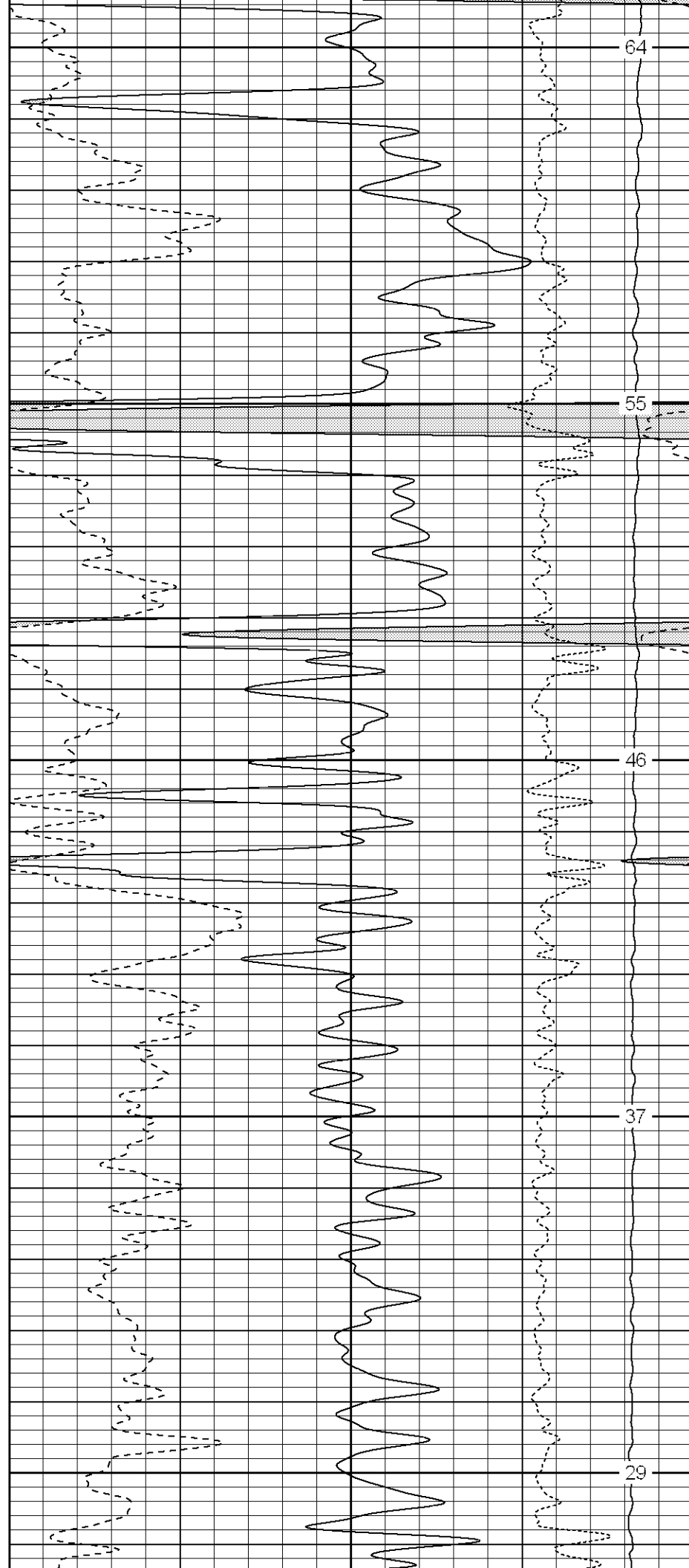
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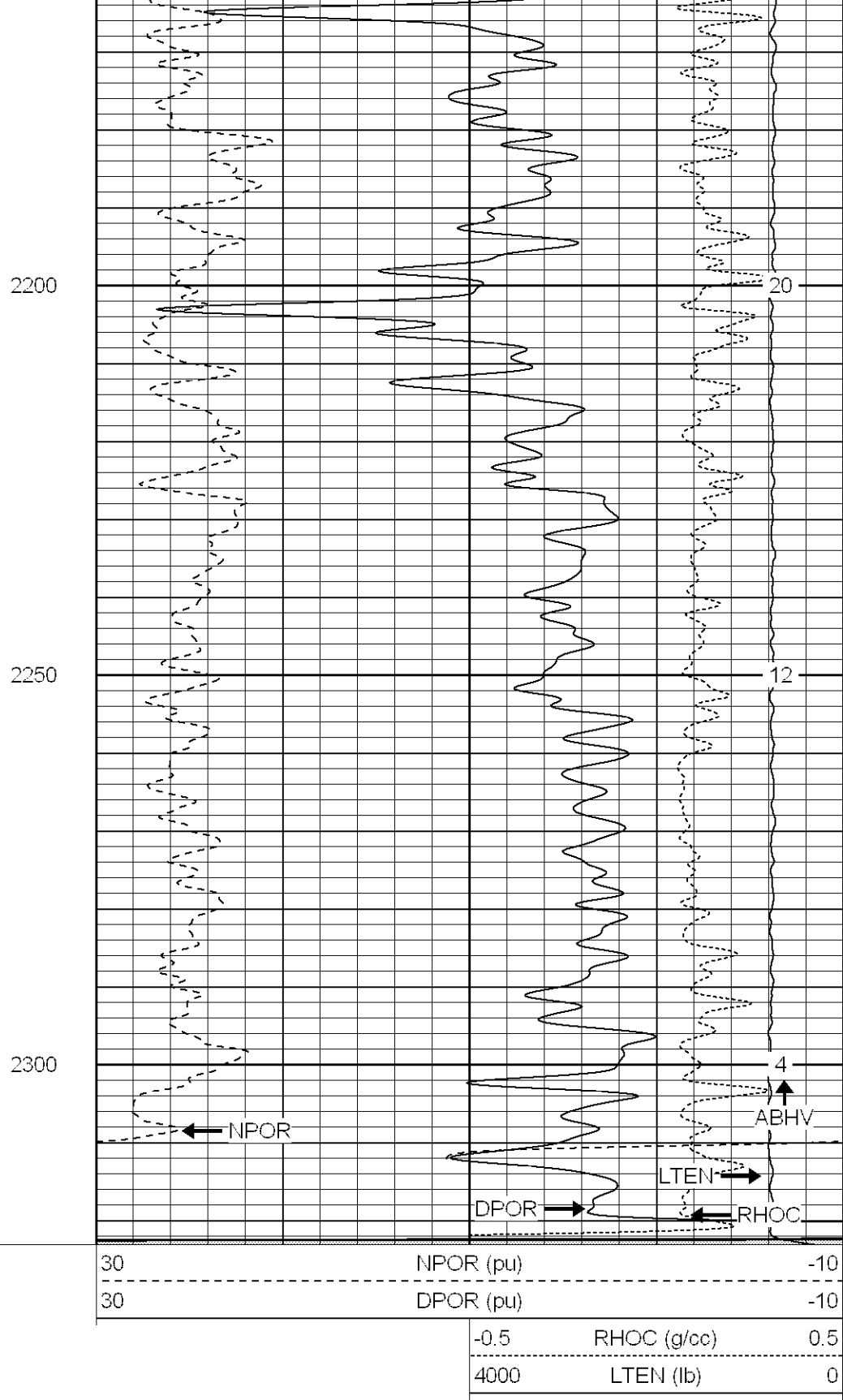
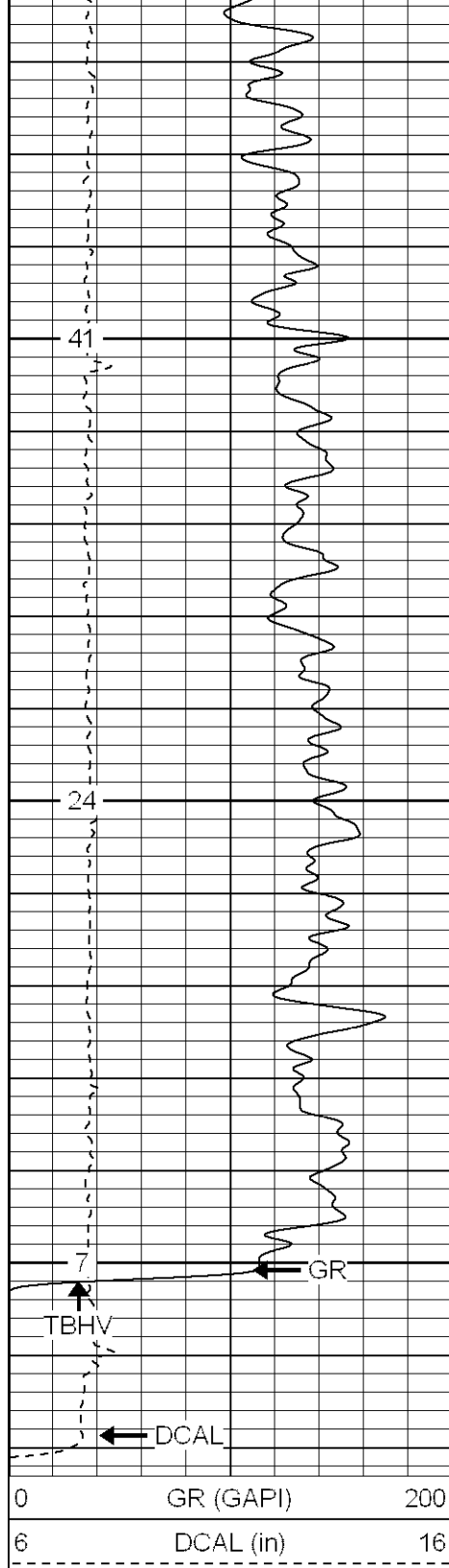
2000

2050

2100

2150





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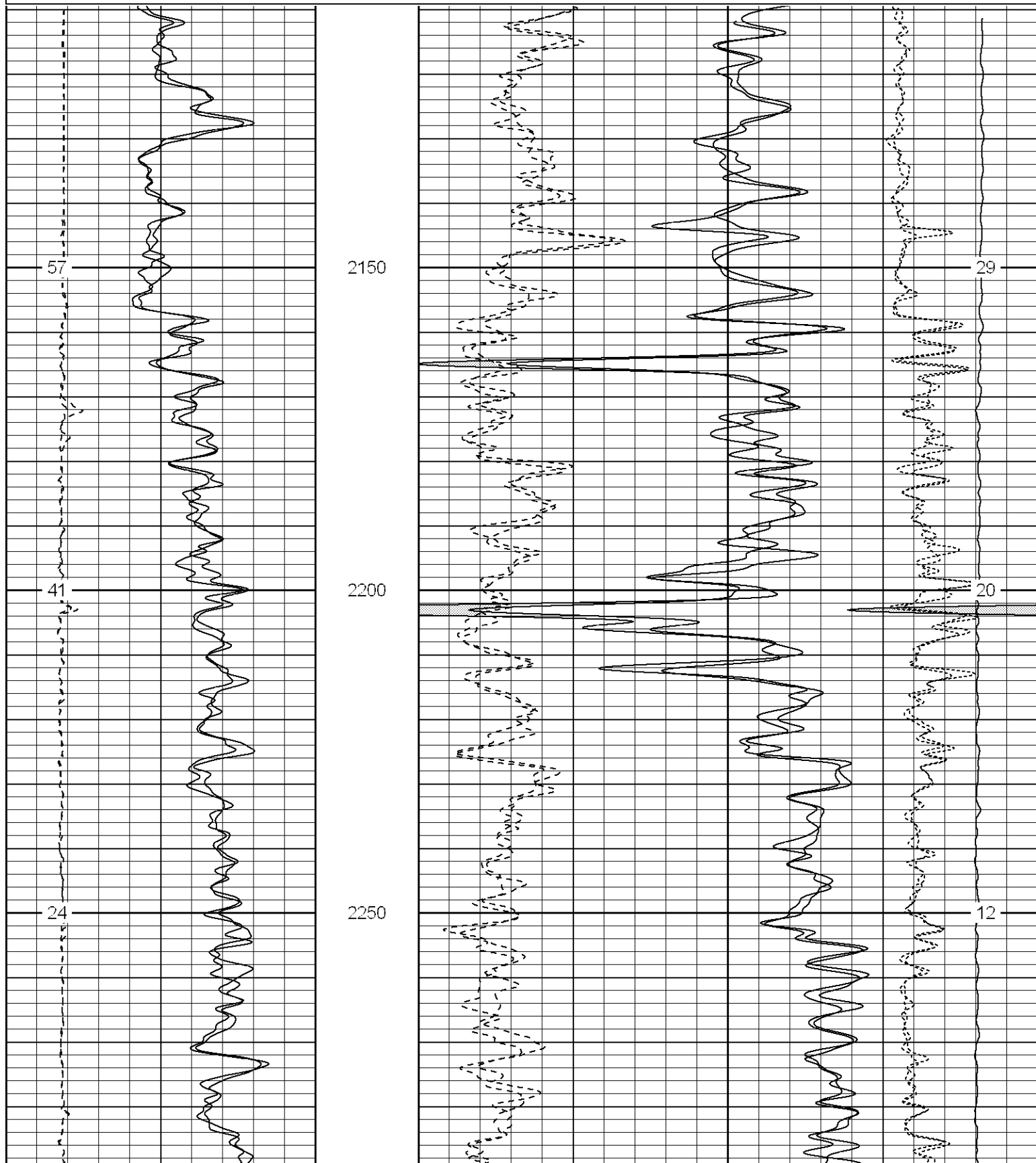
Repeat Section

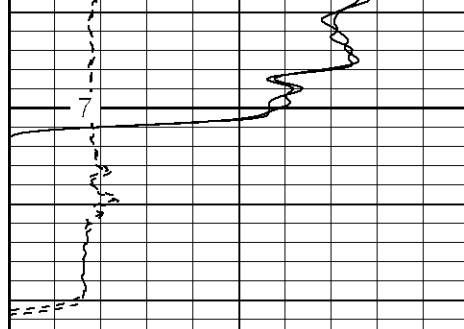
Database File: xtohr1609vx.db
Dataset Pathname: pass3.1
Presentation Format: cdnl
Dataset Creation: Mon Apr 16 00:25:17 2007 by Calc Open-Cased 061129

0	GR (GAPI)	200
6	DCAL (in)	16
6	DCAL-repeat (in)	16
0	GR-repeat (GAPI)	200

30	NPOR (pu)	-10
30	DPOR (pu)	-10
30	NPOR-repeat (pu)	-10
30	DPOR-repeat (pu)	-10

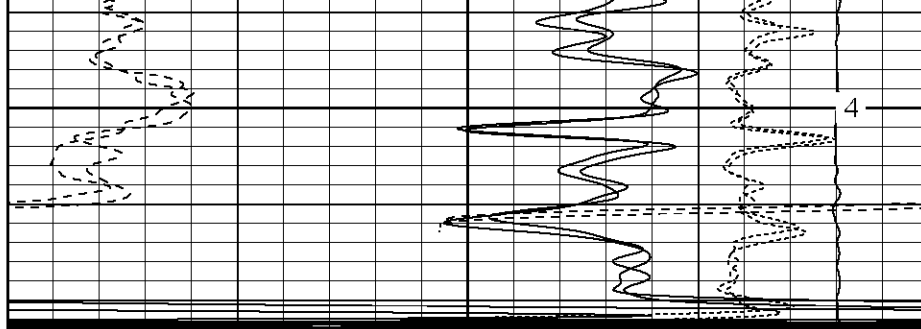
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
-0.5	RHOC-repeat (g/cc)	0.5





2300

0	GR (GAPI)	200
6	DCAL (in)	16
6	DCAL-repeat (in)	16
0	GR-repeat (GAPI)	200



30	NPOR (pu)	-10
30	DPOR (pu)	-10
30	NPOR-repeat (pu)	-10
30	DPOR-repeat (pu)	-10

-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
-0.5	RHOC-repeat (g/cc)	0.5



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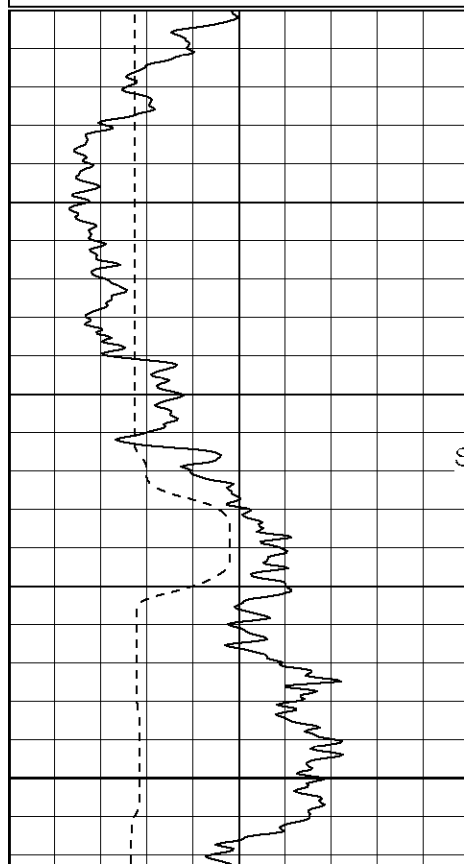
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High Resolution Pass

Database File: xtohr1609vx.db
Dataset Pathname: pass4.2
Presentation Format: cdlhr
Dataset Creation: Mon Apr 16 10:14:32 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:120

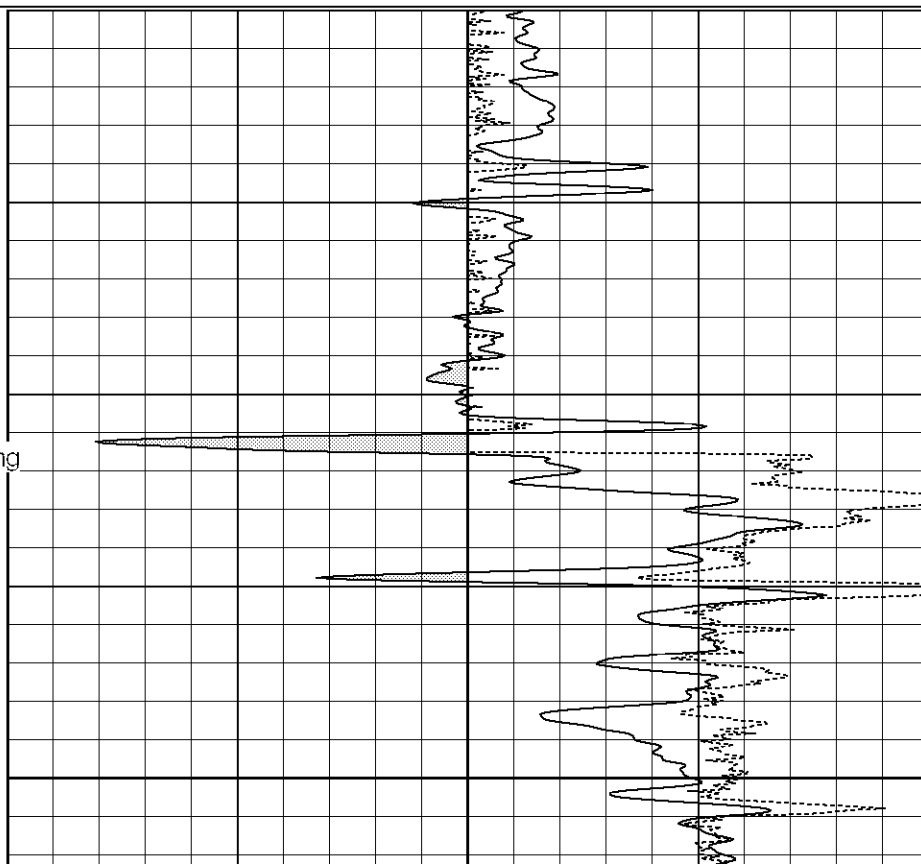
0	GR (GAPI)	200
6	DCAL (in)	16

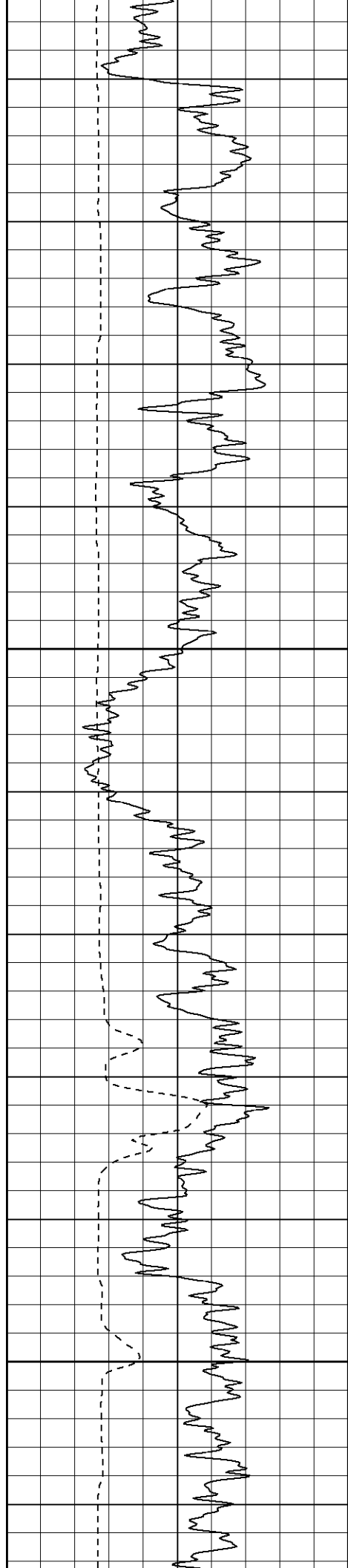
1	RHOB (g/cc)	3
-0.5	RHOC (g/cc)	0.5



Surface Casing

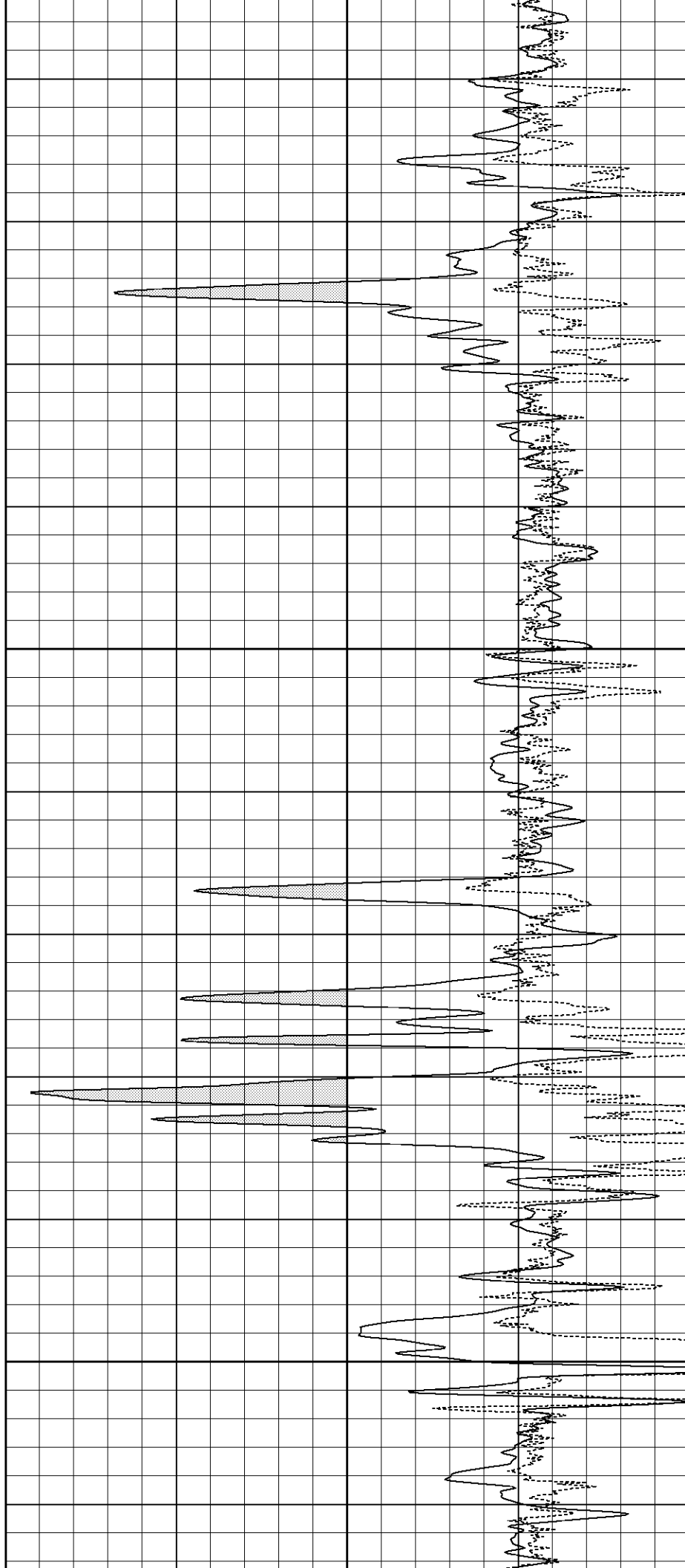
500

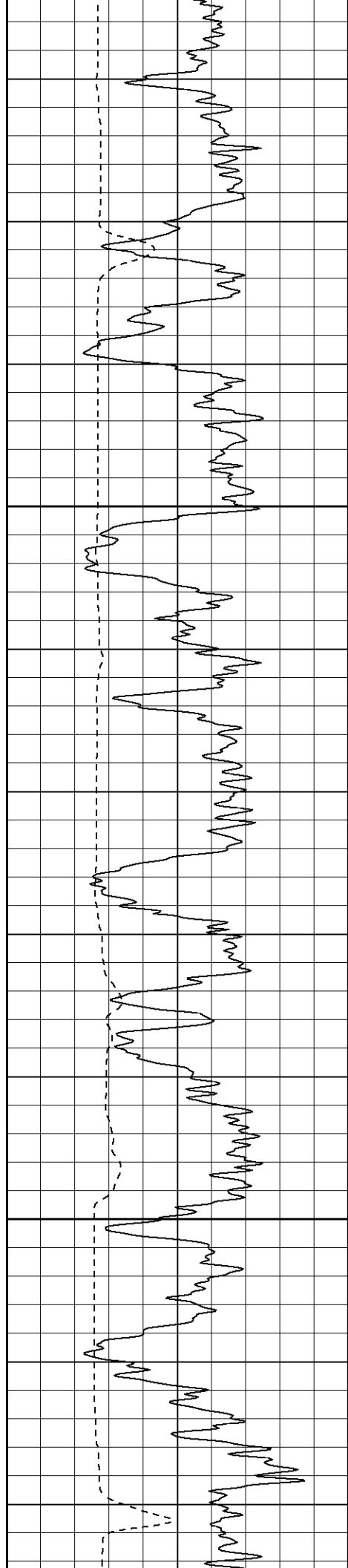




550

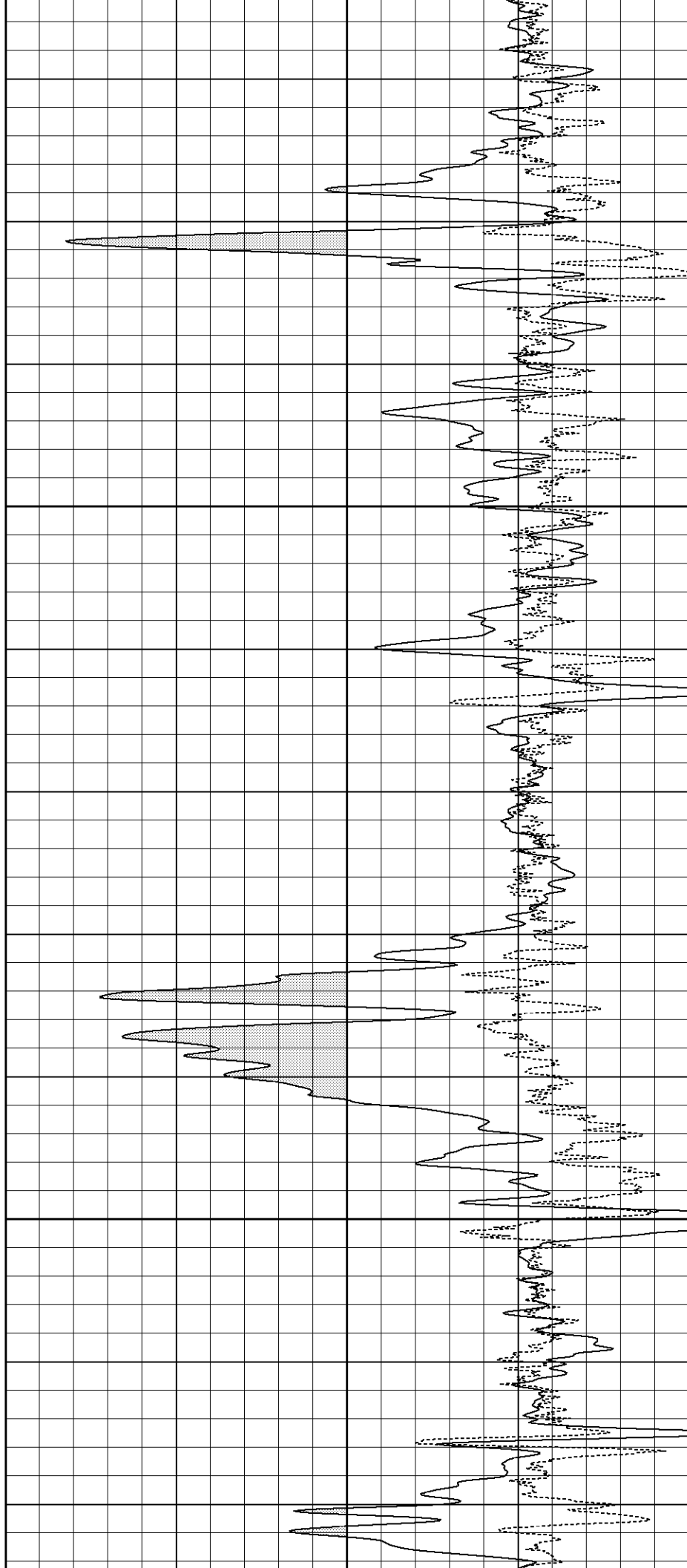
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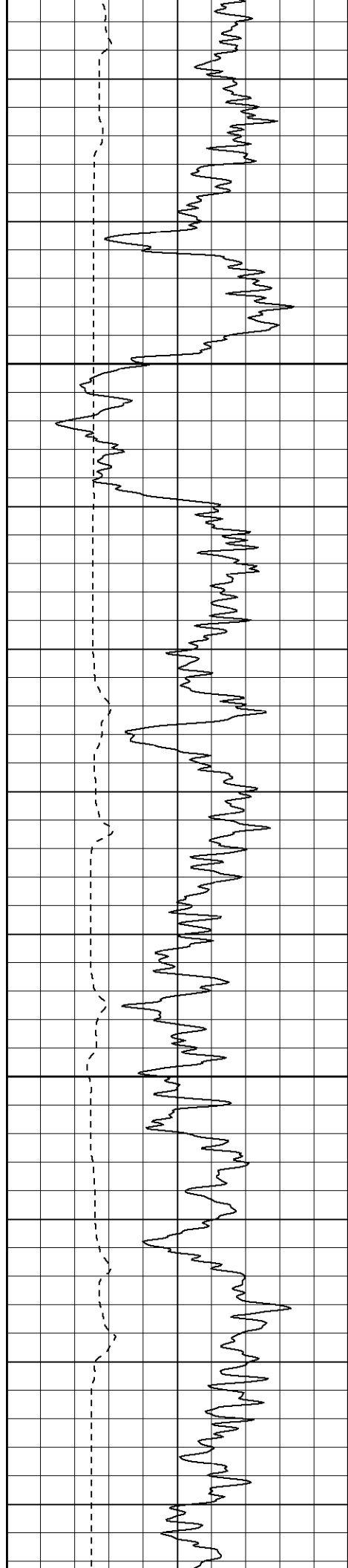




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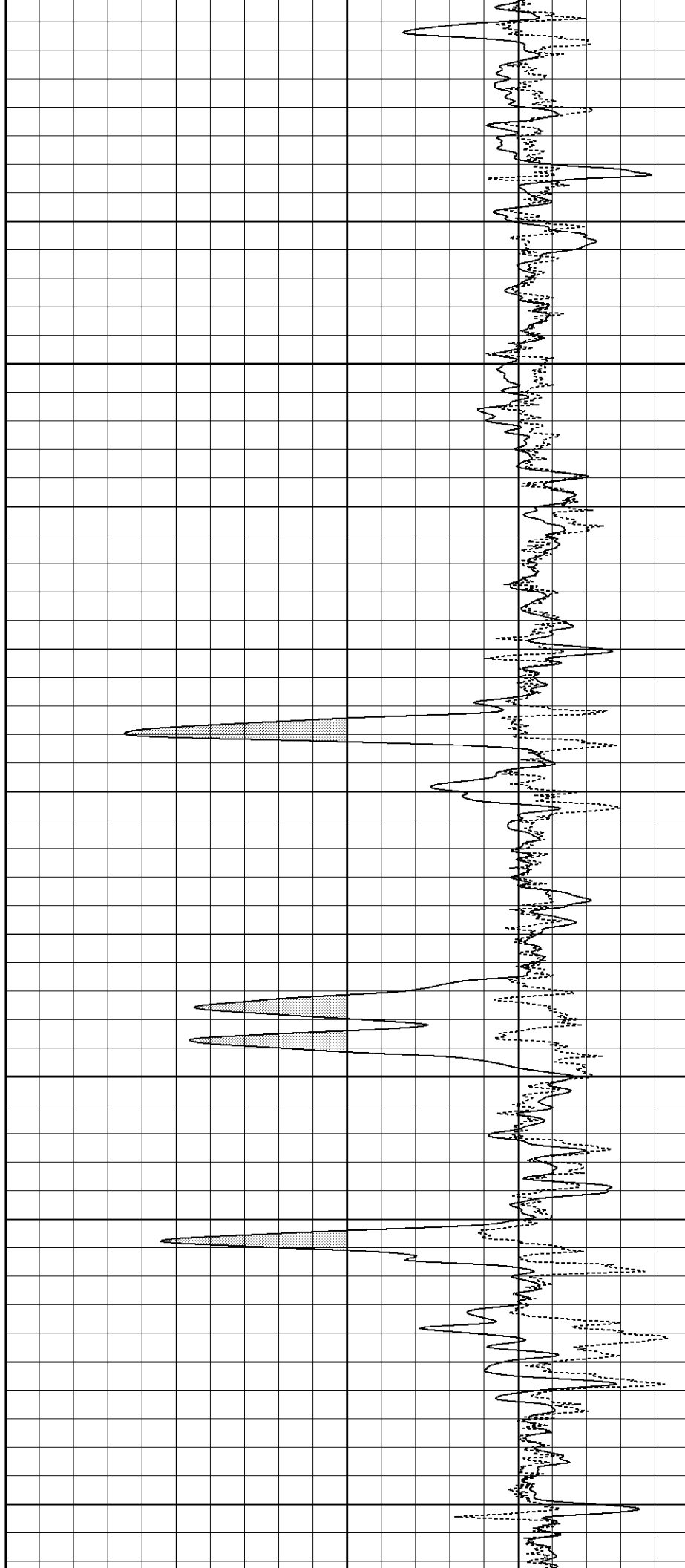
700





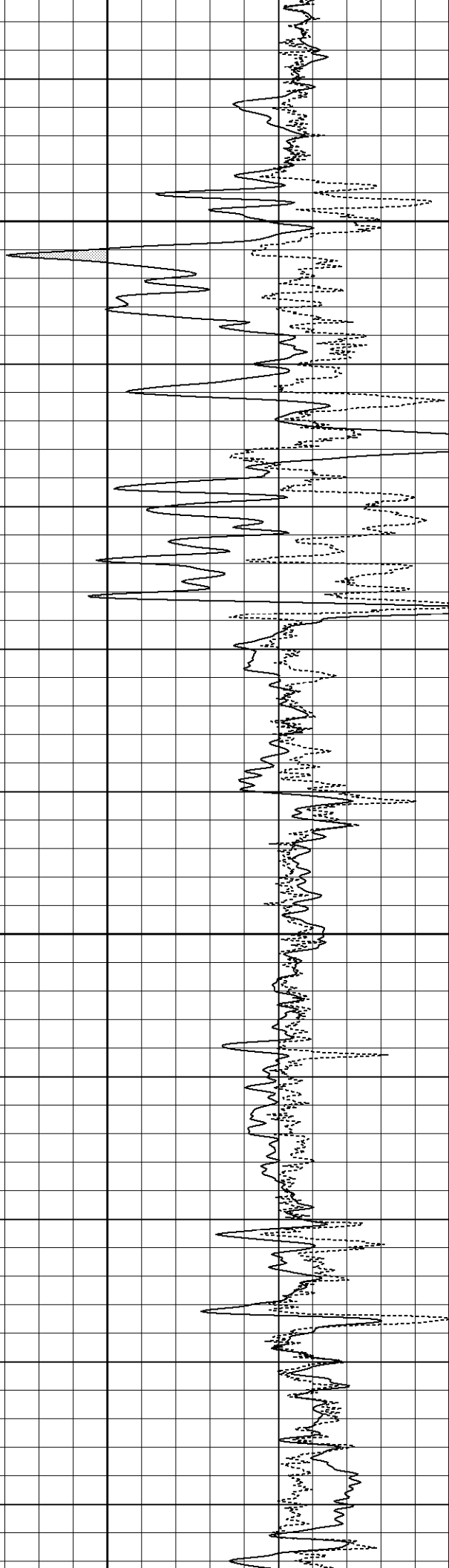
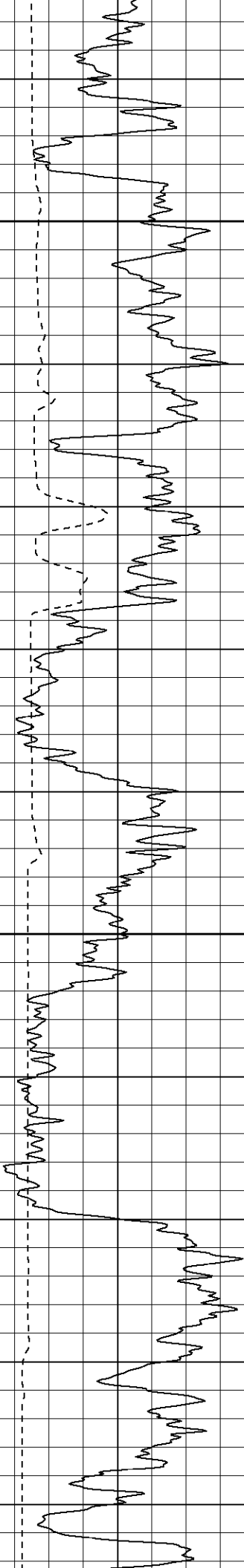
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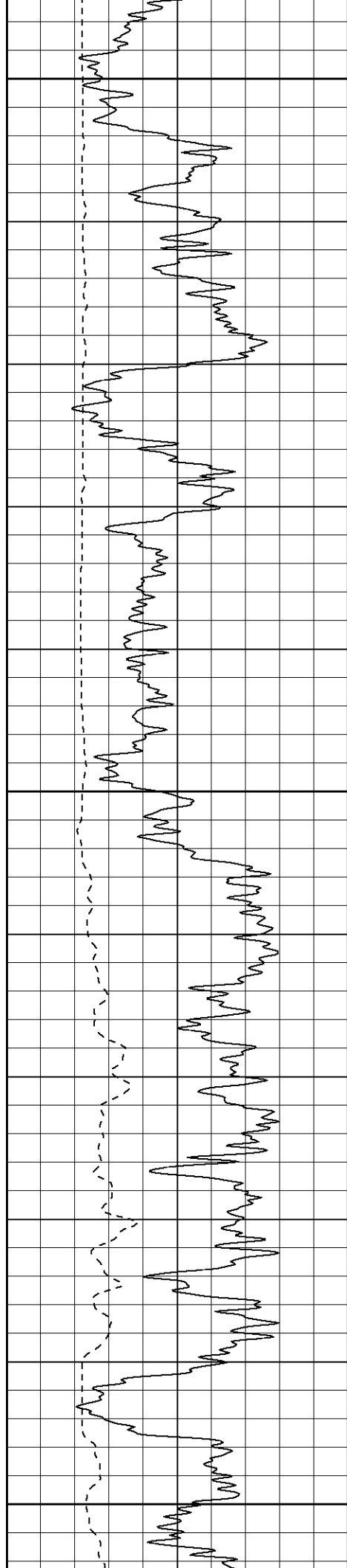
800



850

900

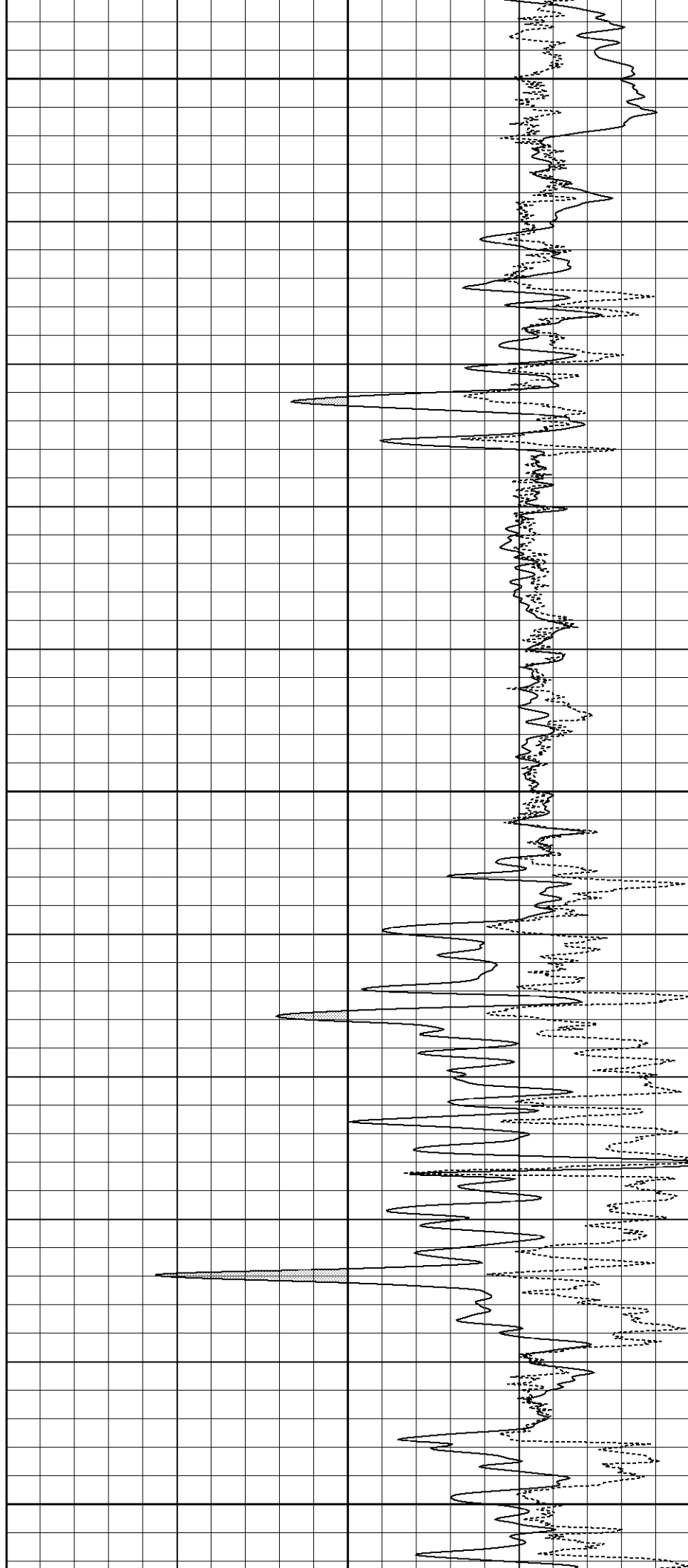


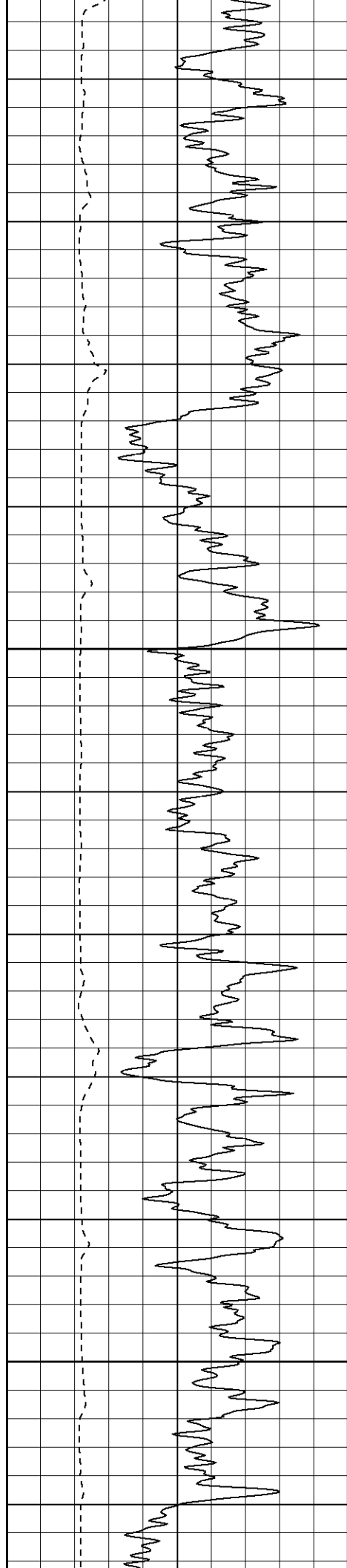


950

1000

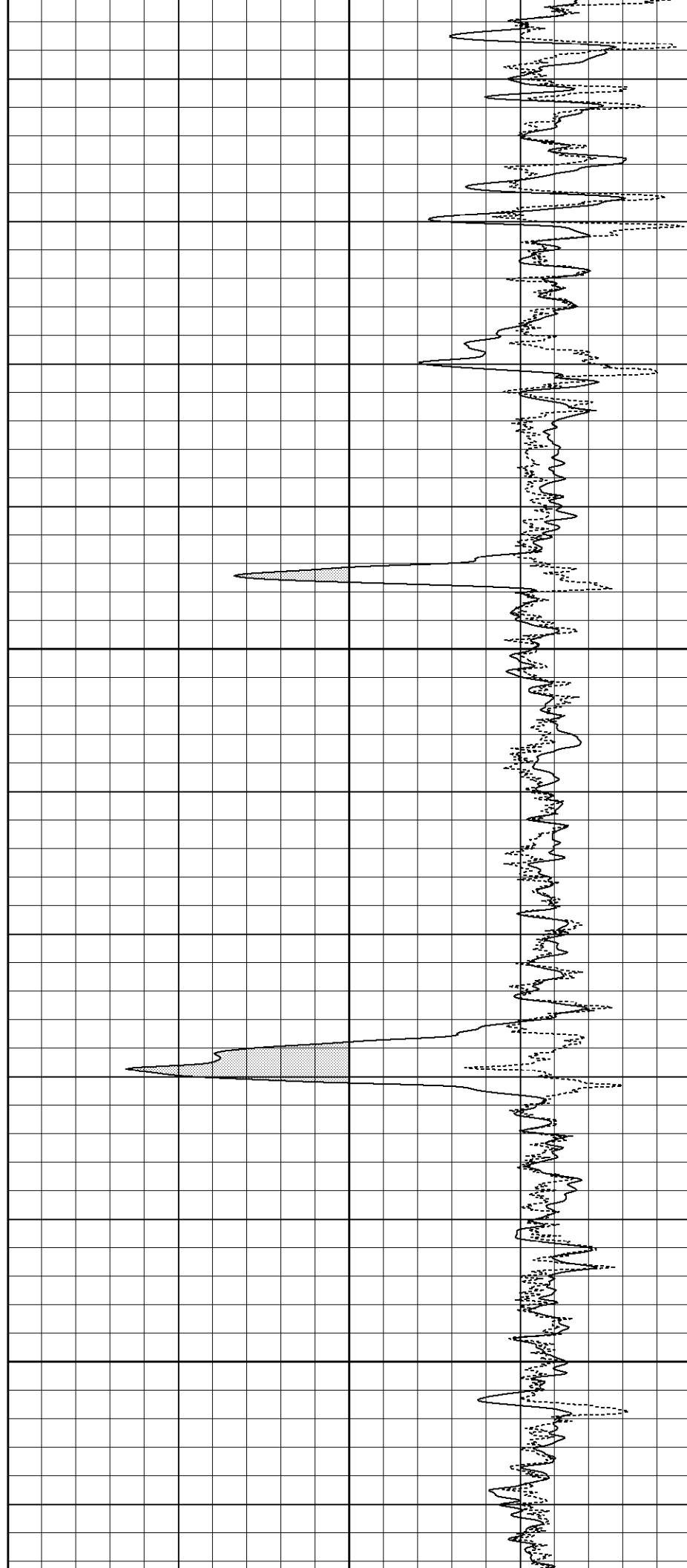
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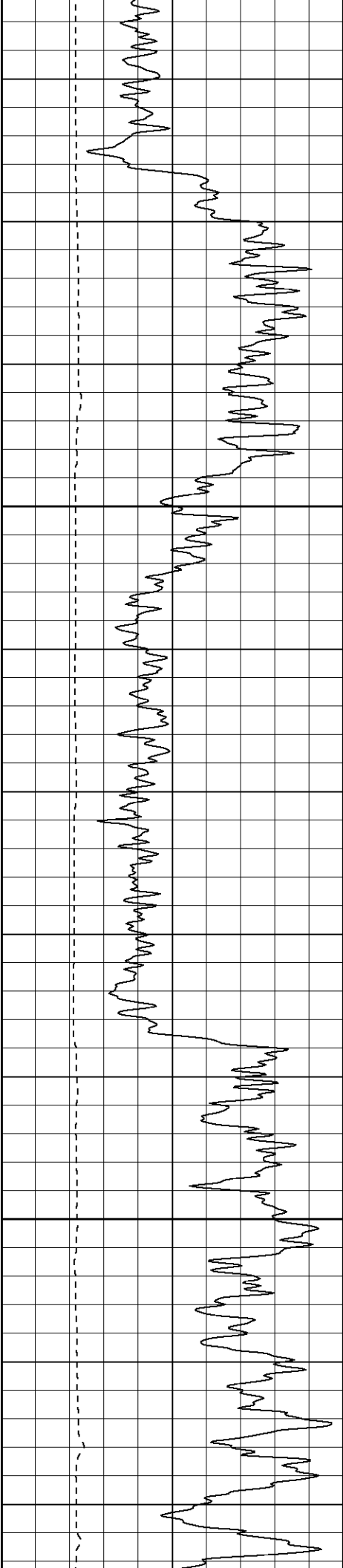




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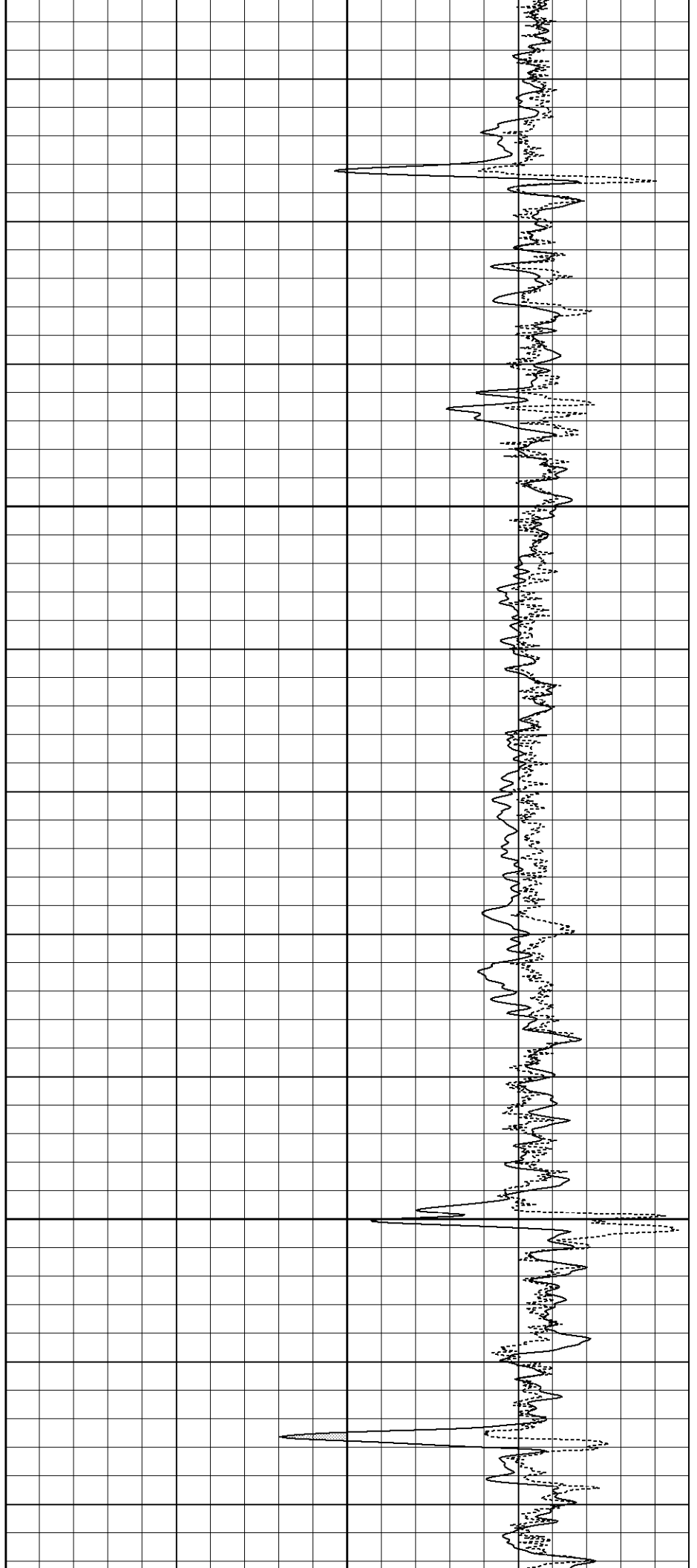
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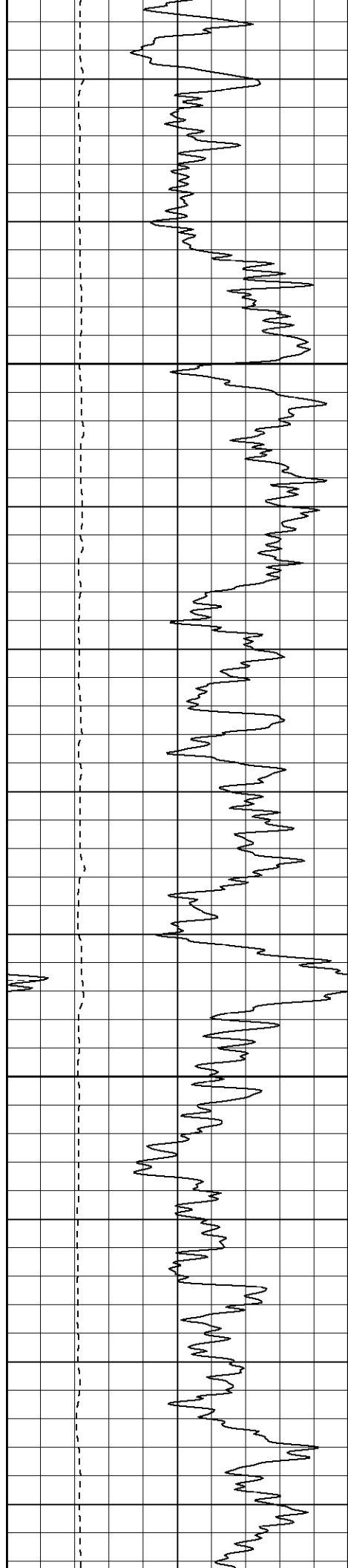




1200

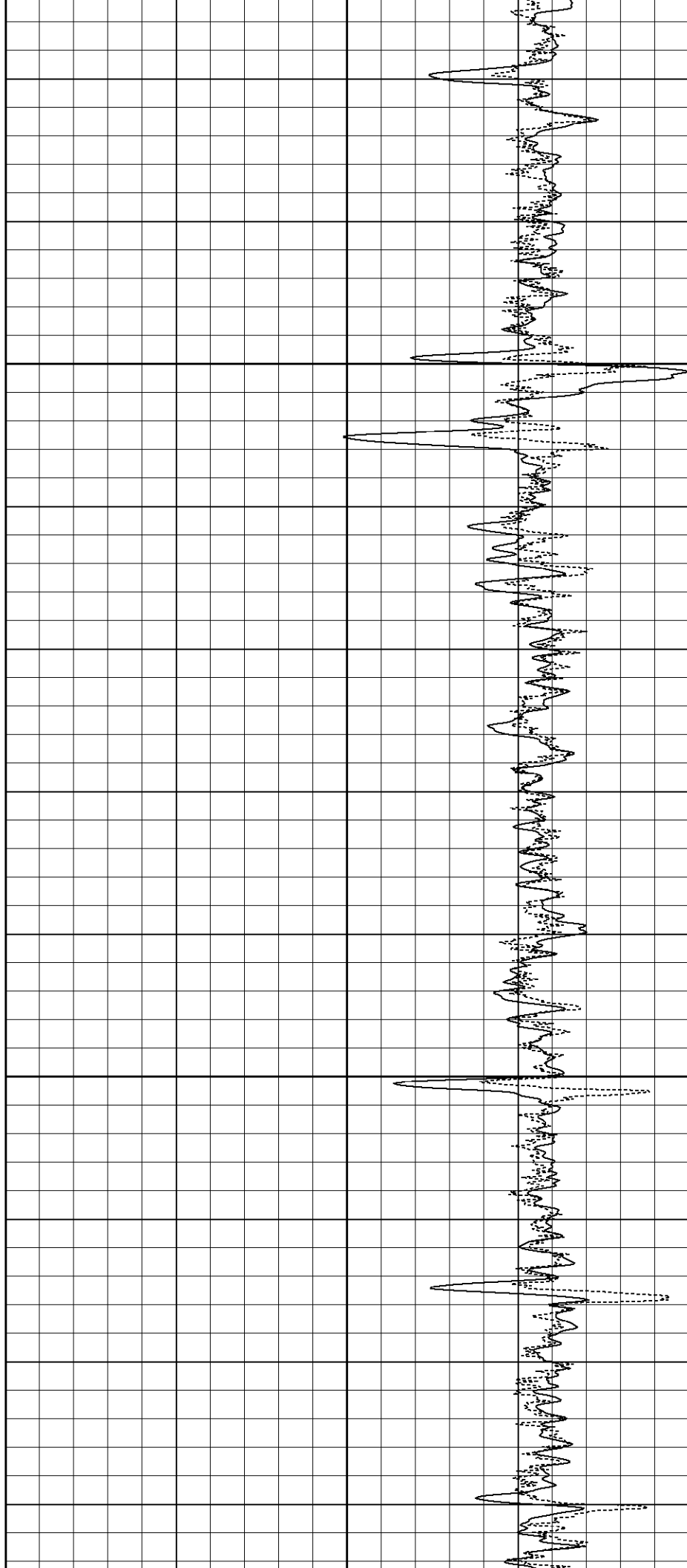
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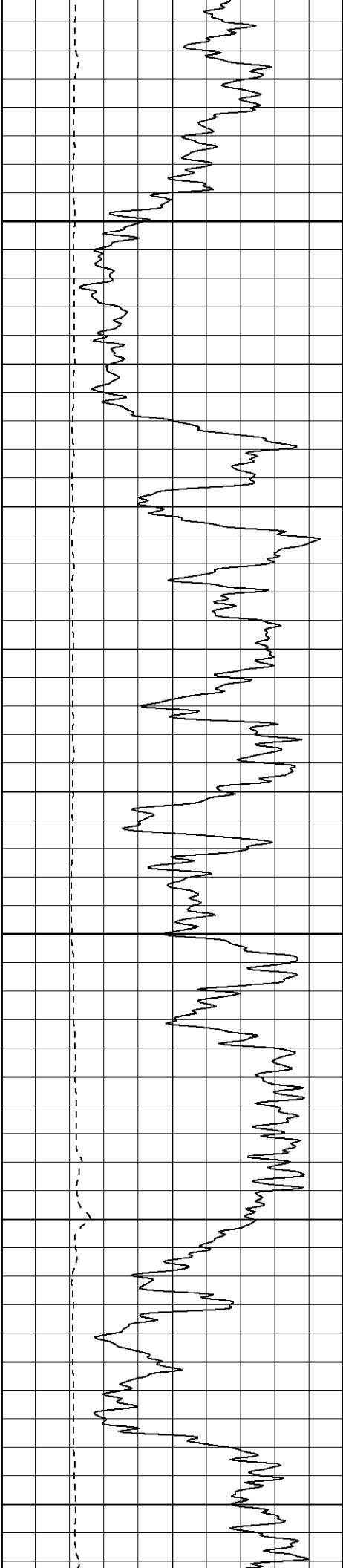




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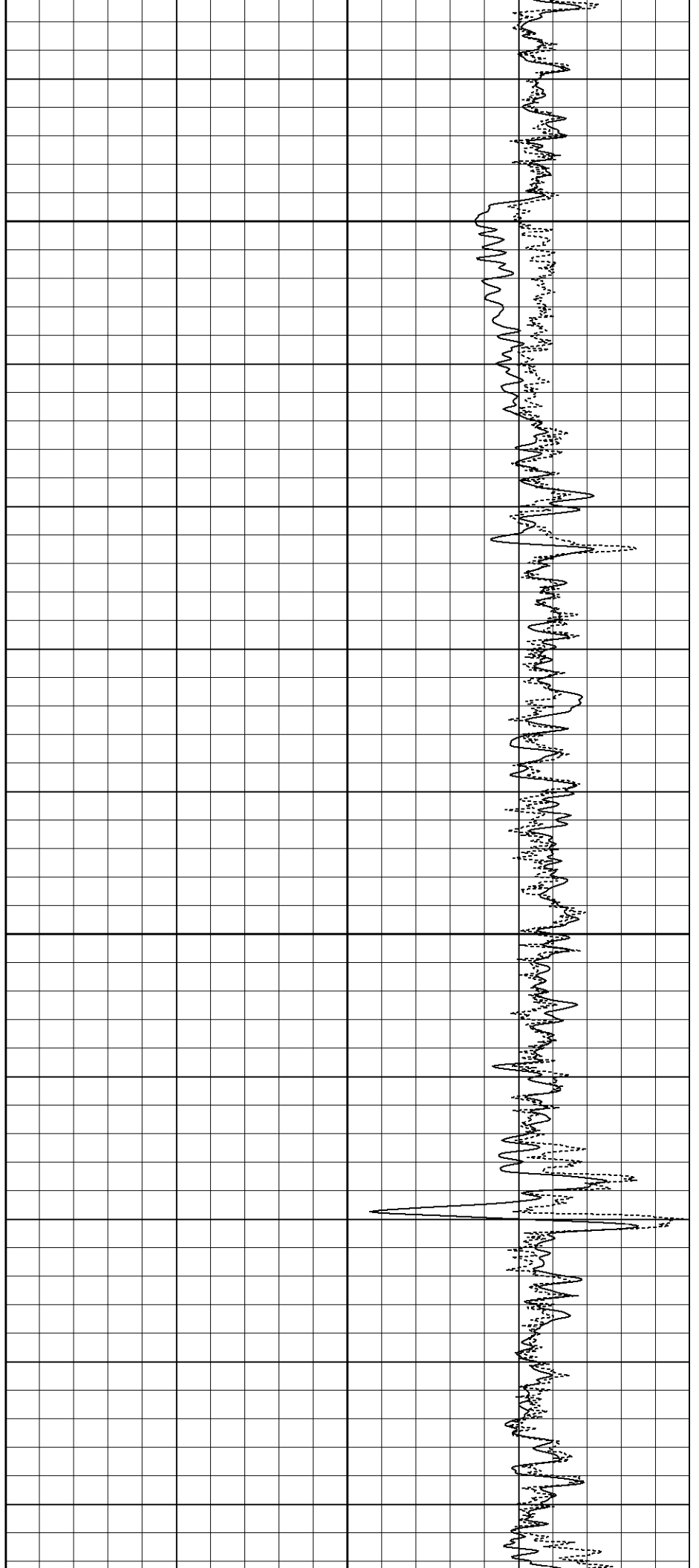
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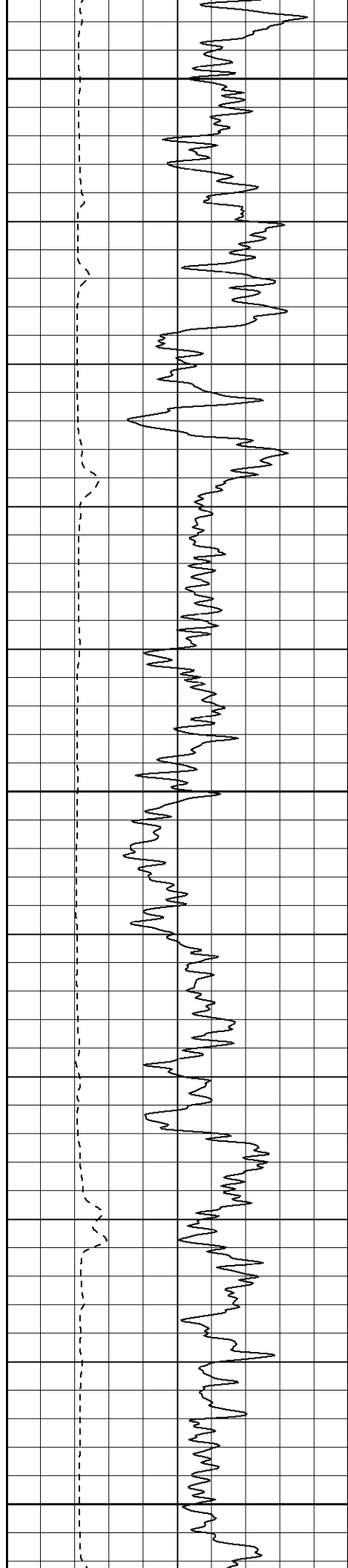




1400

1450

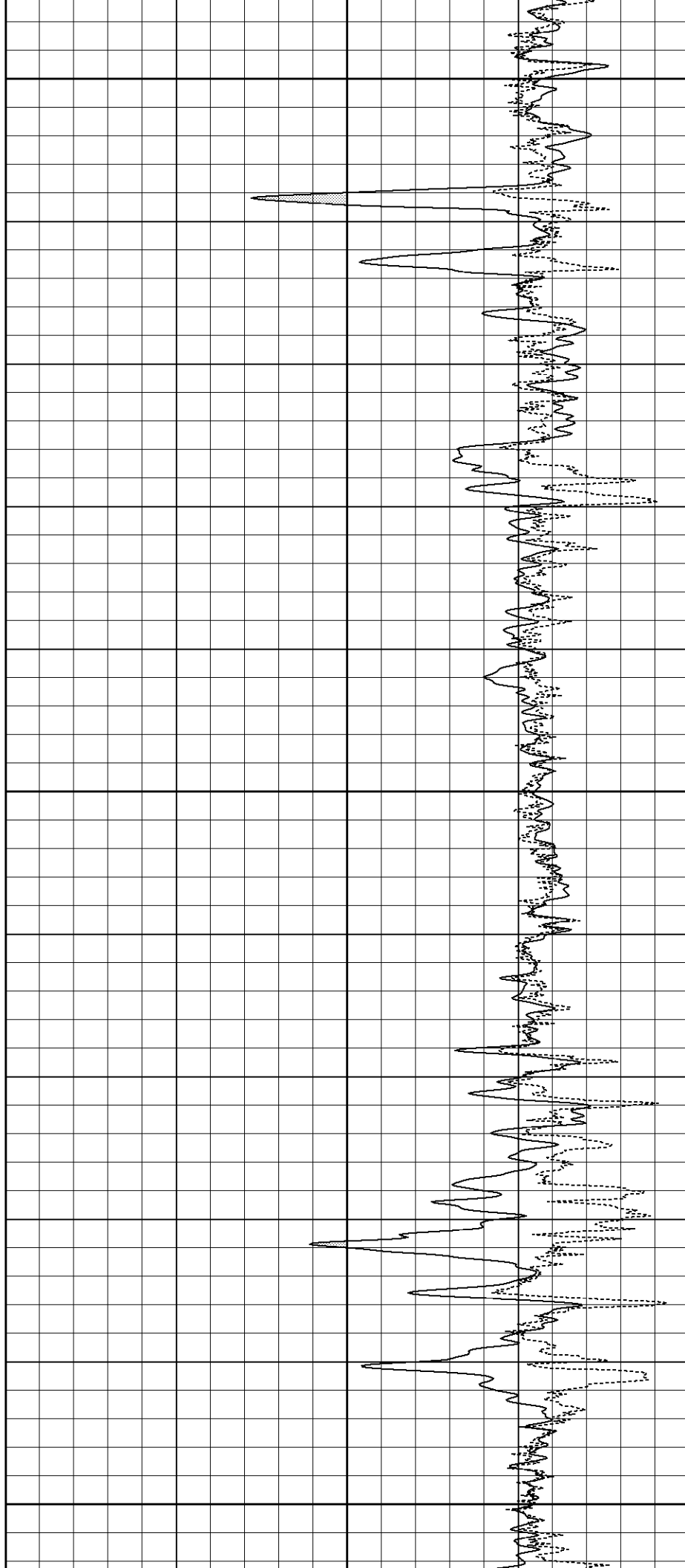


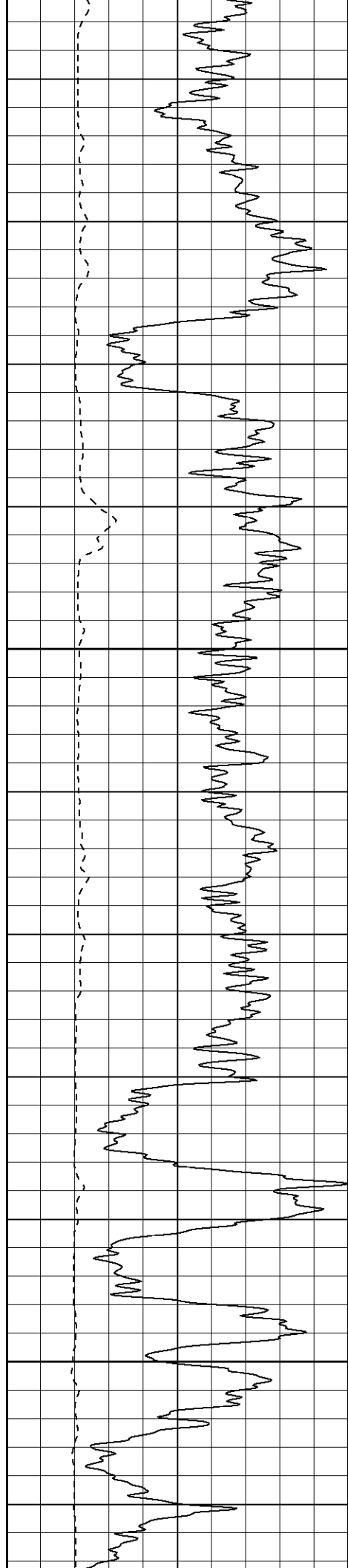


1500

1550

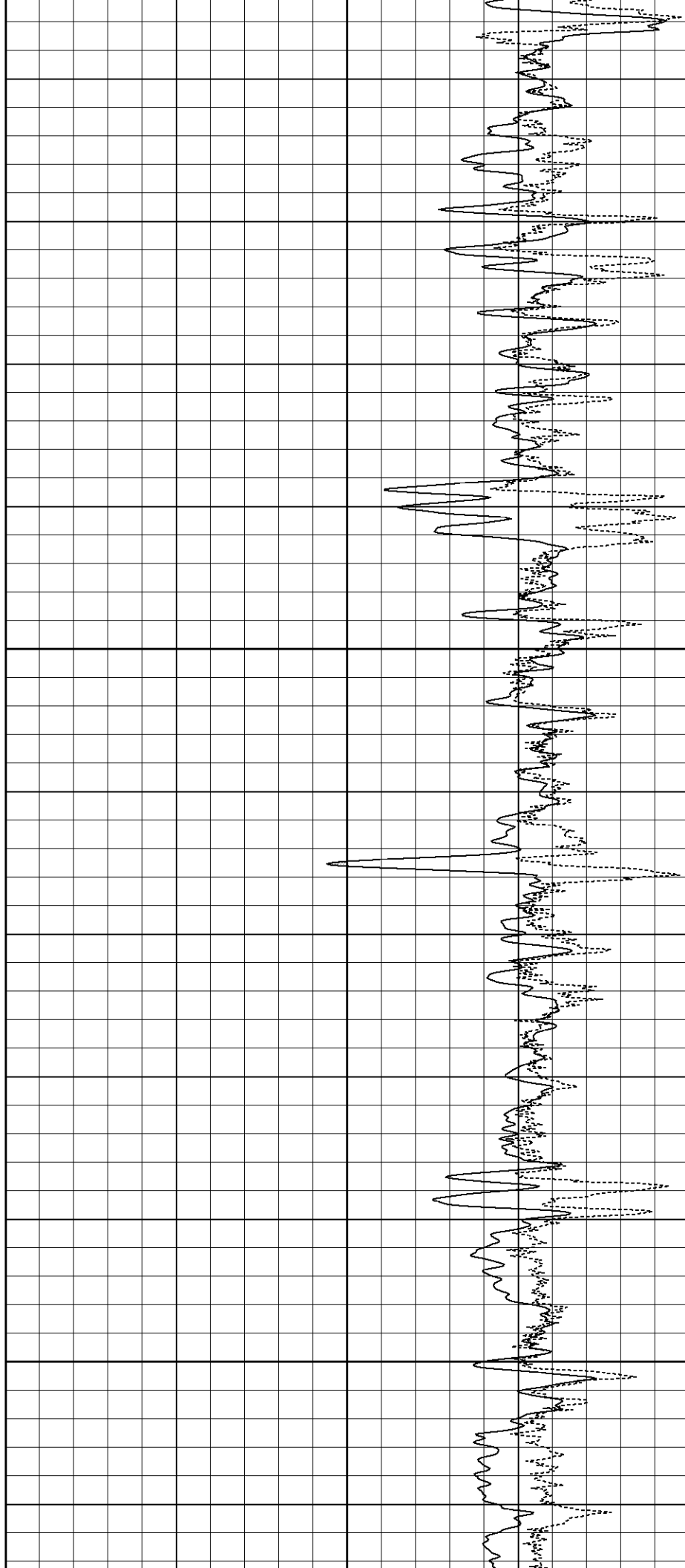
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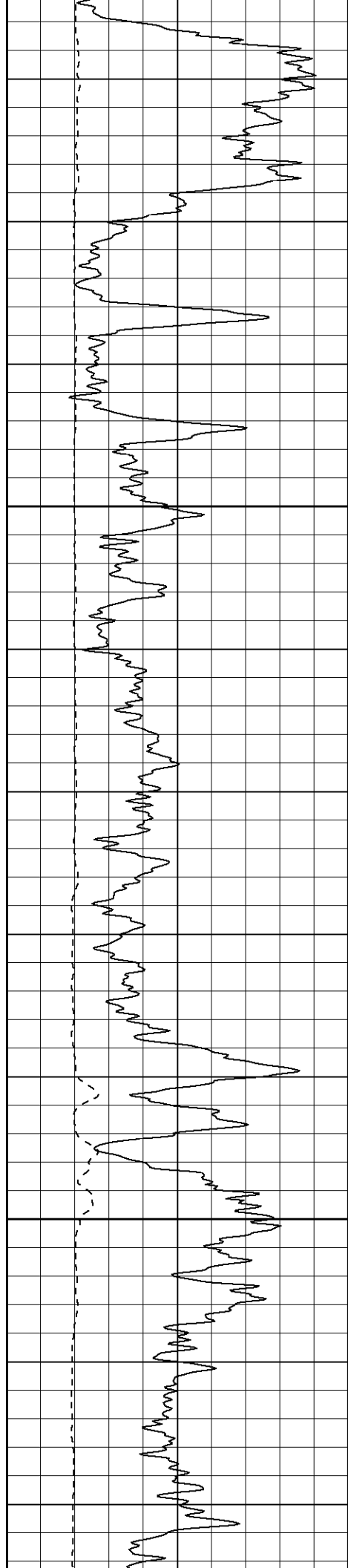




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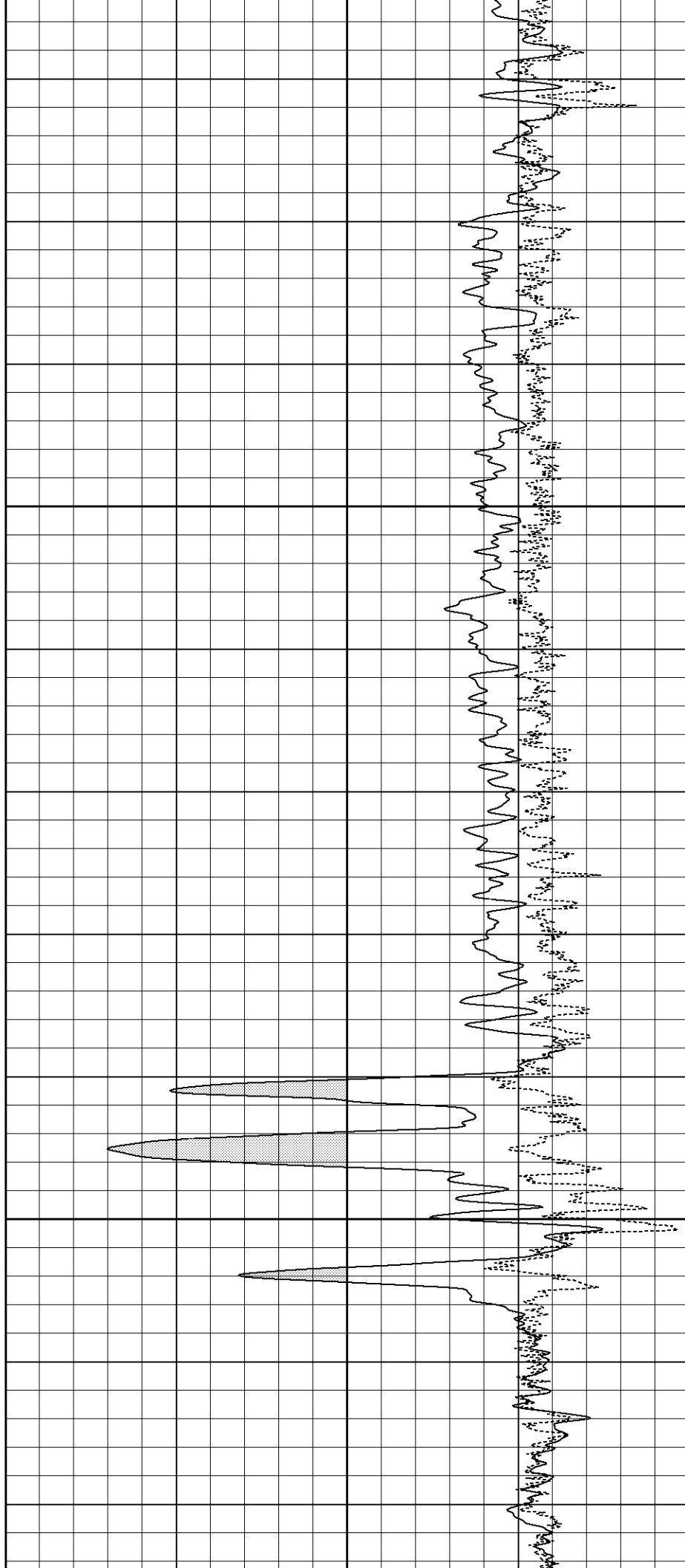
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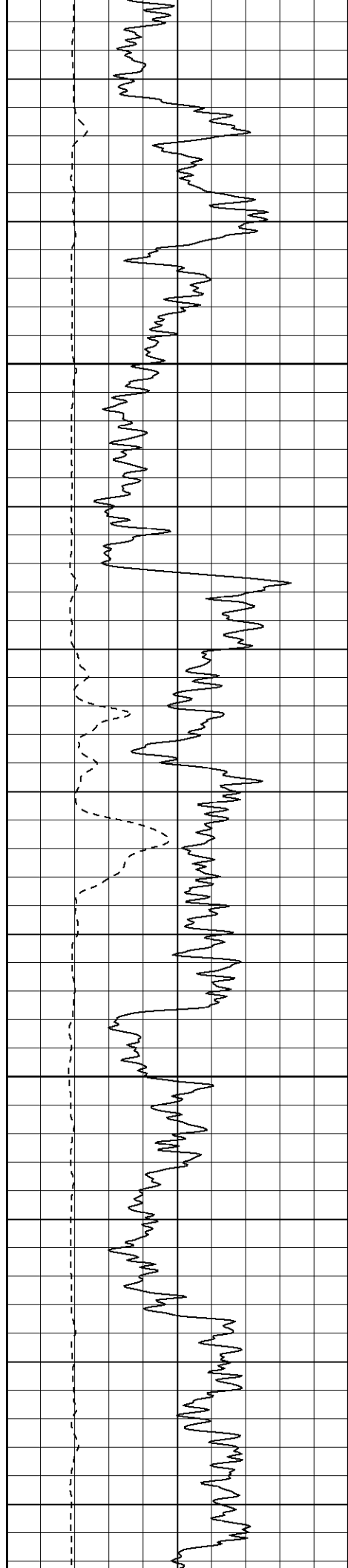




1750

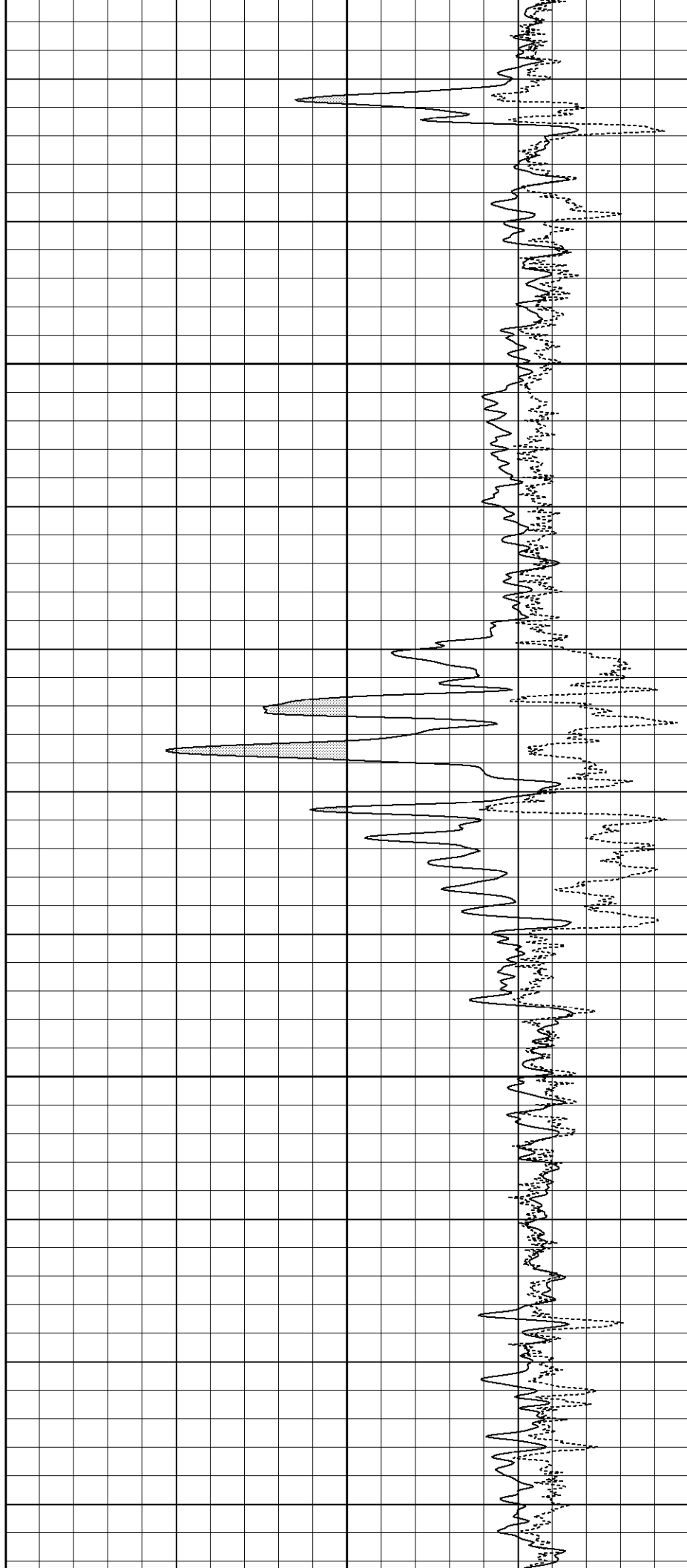
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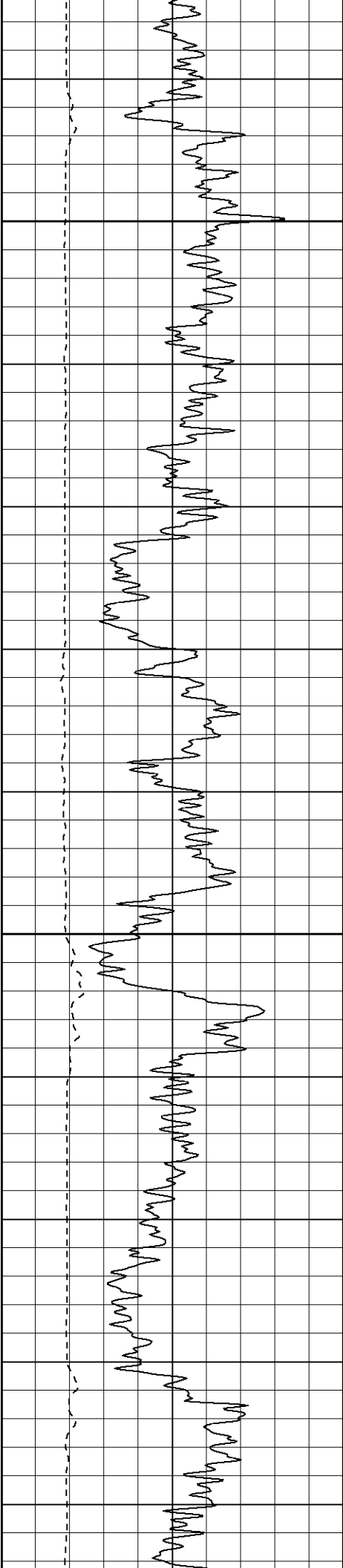




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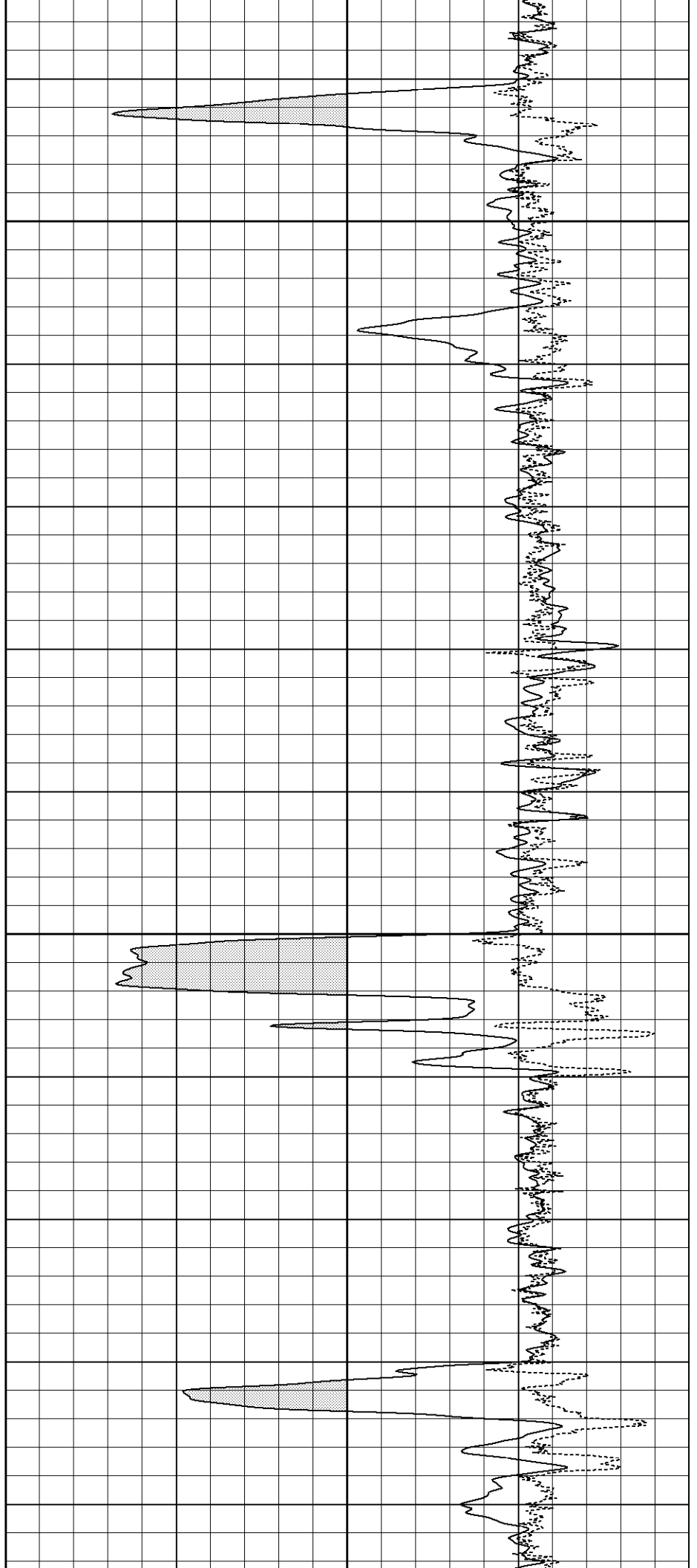
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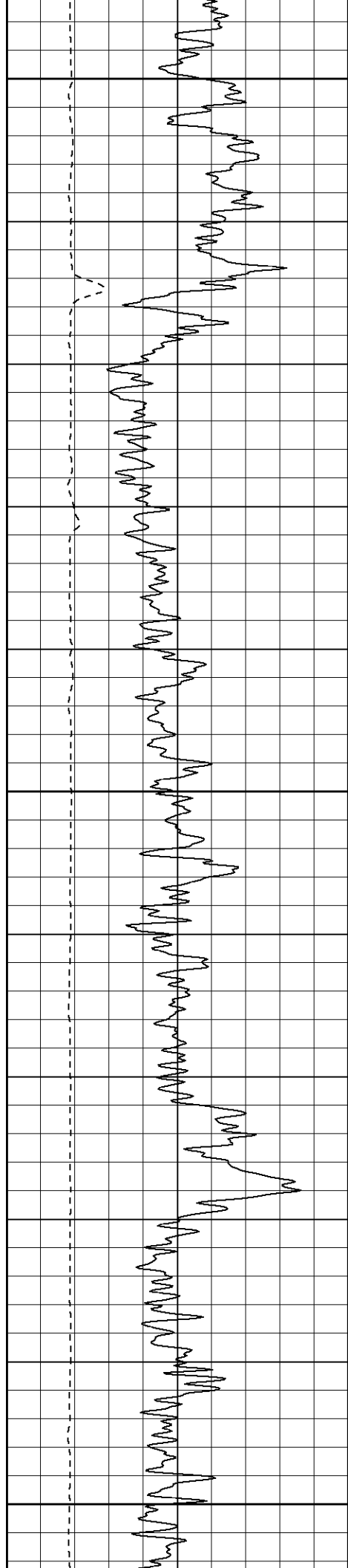




1950

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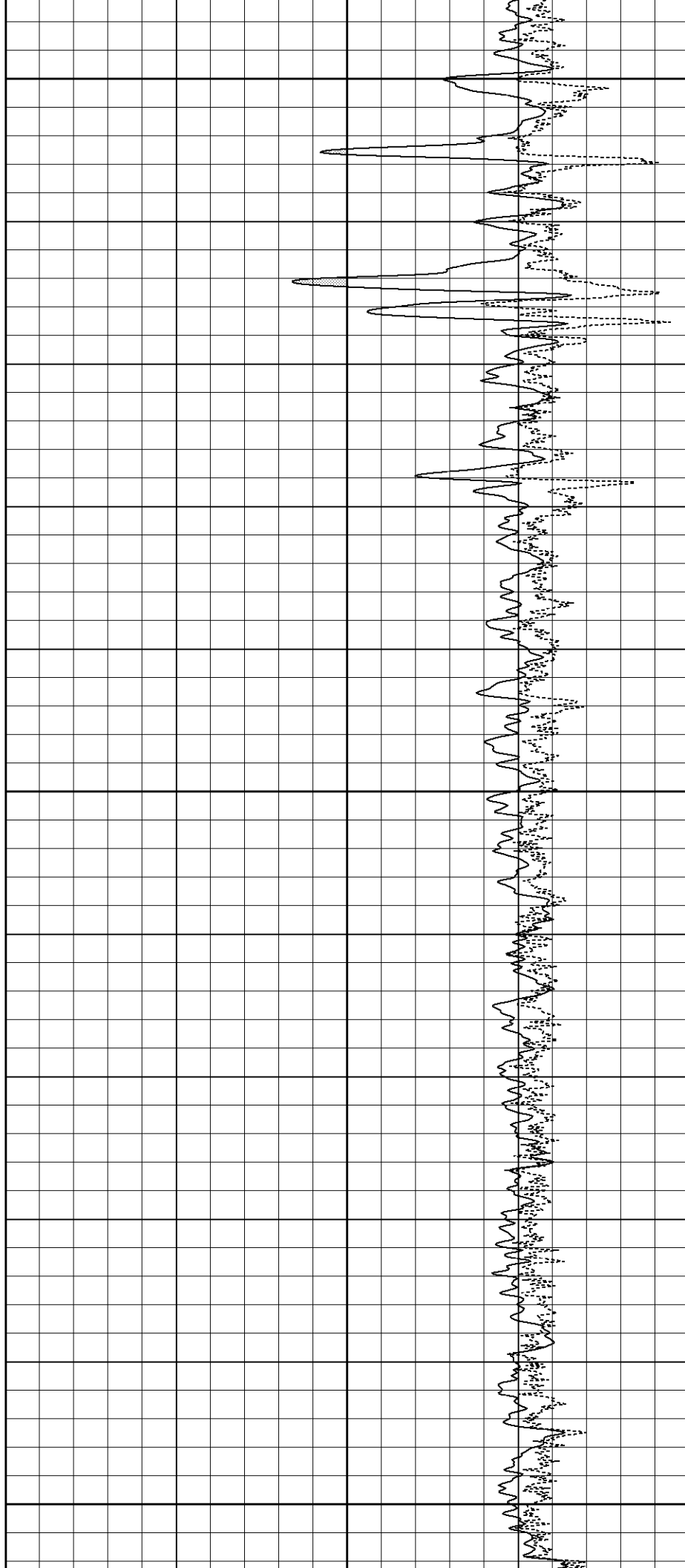


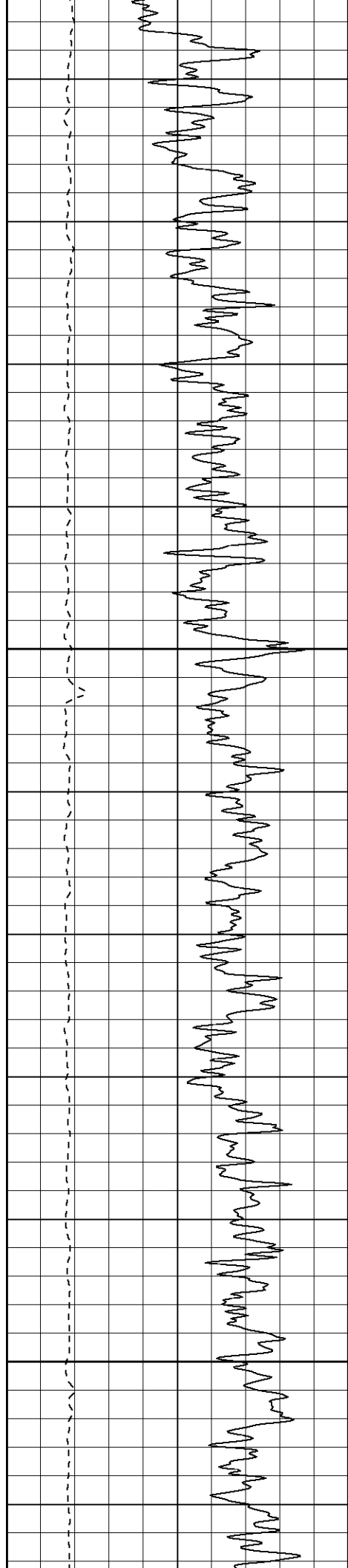


2050

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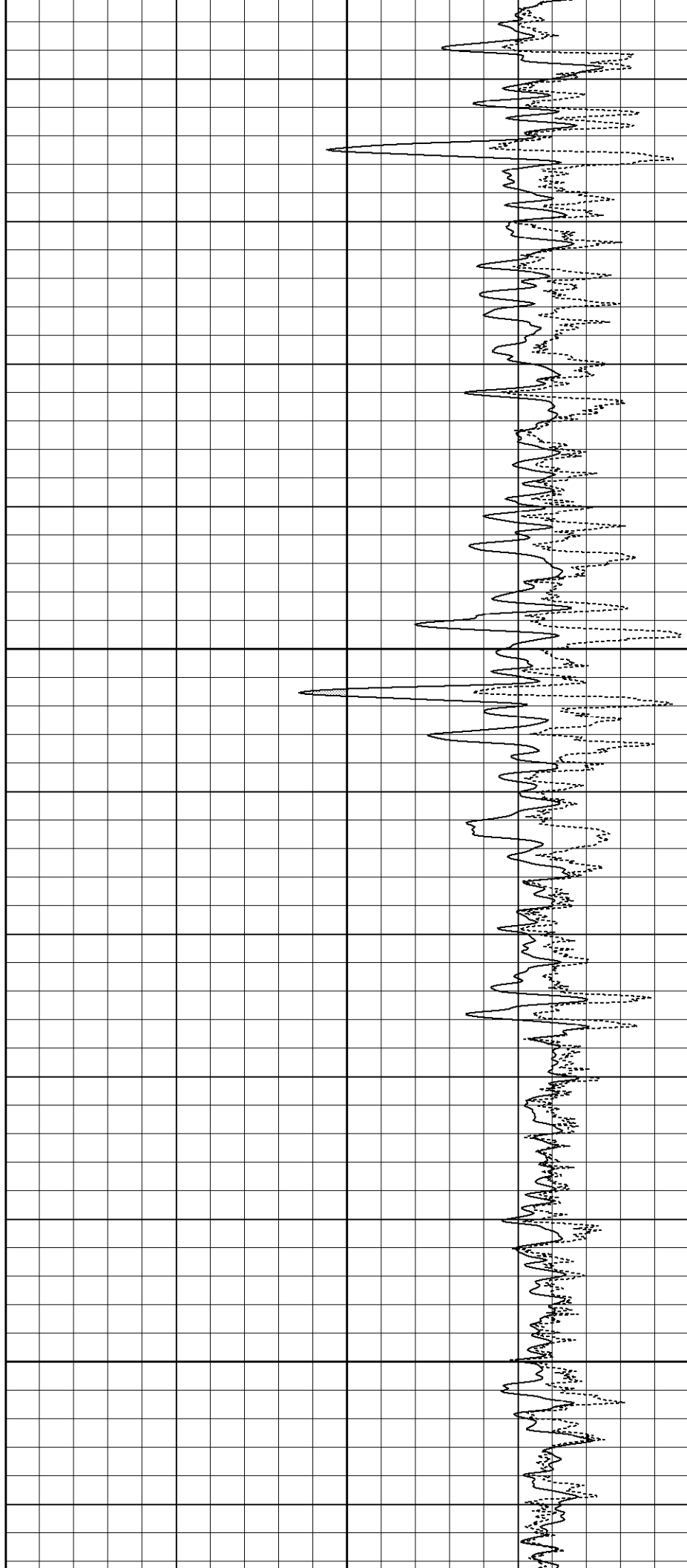
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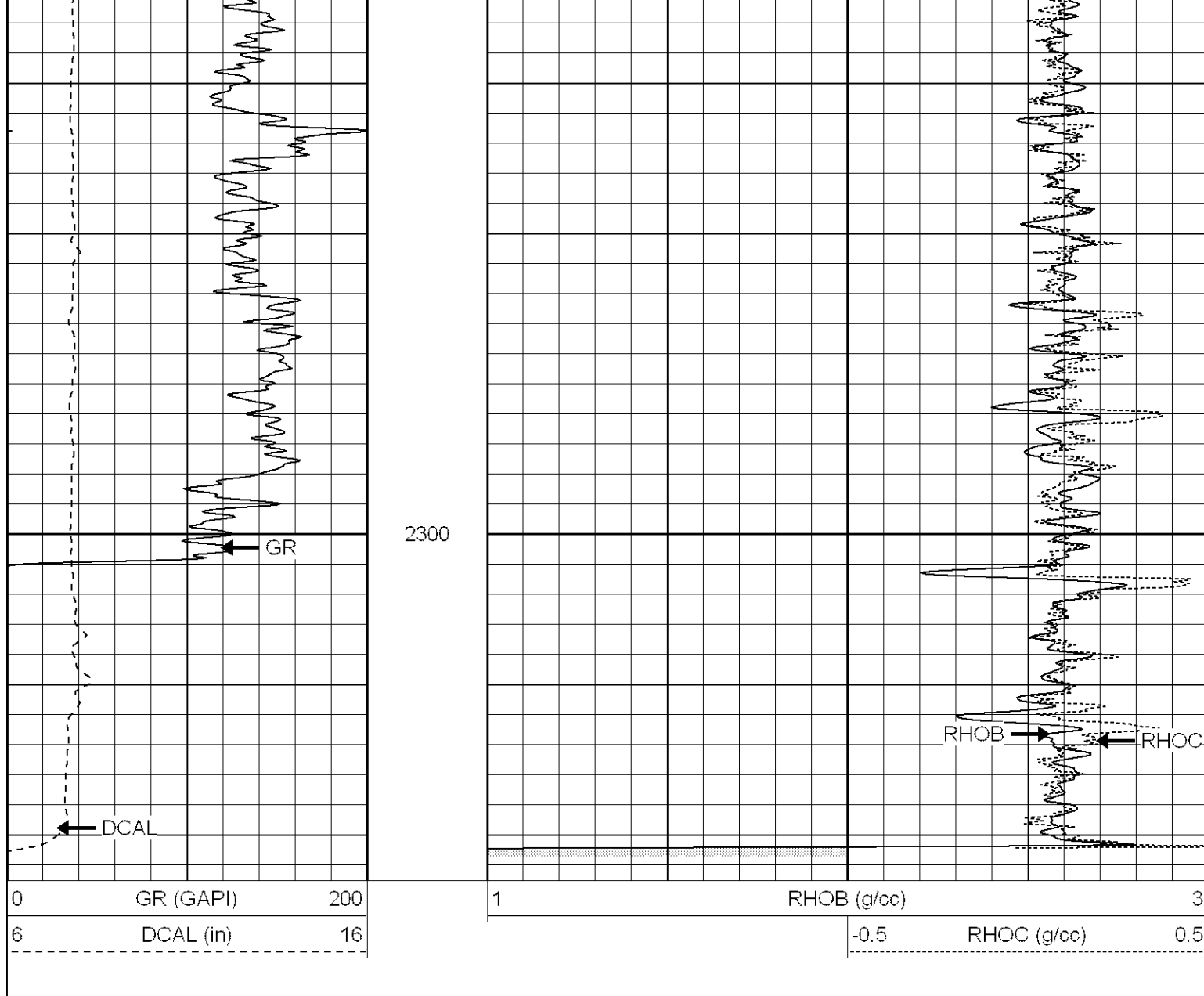




2200

2250





Calibration Report

Database File: xtohr1609vx.db
 Dataset Pathname: pass4
 Dataset Creation: Sun Apr 15 23:10:48 2007 by Log Open-Cased 061129

Compensated Density Calibration Report

Serial-Model: 2119-O
 Source / Verifier: csv-j12 / blks
 Master Calibration Performed: Wed Mar 28 17:52:23 2007

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	988.49	602.41	cps
Aluminum	2.590	g/cc	220.69	404.88	cps

Spine Angle = 75.16

Density/Spine Ratio = 0.567

	Size		Reading	
Small Ring	7.85	in	2.80	V
Large Ring	14.00	in	8.81	V

Gamma Ray Calibration Report		
Serial Number:	2119	
Tool Model:	O	
Performed:	Mon Jan 15 08:35:20 2007	
Calibrator Value:	170.0	GAPI
Background Reading:	42.6	cps
Calibrator Reading:	139.0	cps
Sensitivity:	1.0000	GAPI/cps
Neutron Calibration Report		
Serial Number:	5145	
Tool Model:	G	
Performed:	Thu Jan 25 22:38:45 2007	
Calibrator Value:	1200	NAPI
Calibrator Reading:	1700	cps
Sensitivity:	1	NAPI/cps

[illegible]