

Patterson

**COMPENSATED DENSITY
NEUTRON
LOG**

Company XTO Energy, Inc.		Company XTO Energy, Inc.	
Well Apache Canyon 13-12X		Well Apache Canyon 13-12X	
Field Purgatoire River		Field Purgatoire River	
County Las Animas		County Las Animas	
State CO		State CO	
Location: API # : 05 071 08828 00		Other Services	
SEC 13 TWP 34S RGE 68W		DIL	
Permanent Datum	Ground Level	Elevation	8394'
Log Measured From	Ground Level		
Drilling Measured From	Ground Level		
Elevation		K.B. -----	
		D.F. -----	
		G.L. 8394'	
Date	8-19-06		
Run Number	Two		
Depth Driller	2400'		
Depth Logger	2166'		
Bottom Logged Interval	2164'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 216'		
Casing Logger	216'		
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	1:00 P.M.		
Time Logger on Bottom	4:00 P.M.		
Maximum Recorded Temperature	110 DEG F		
Equipment Number	T720		
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

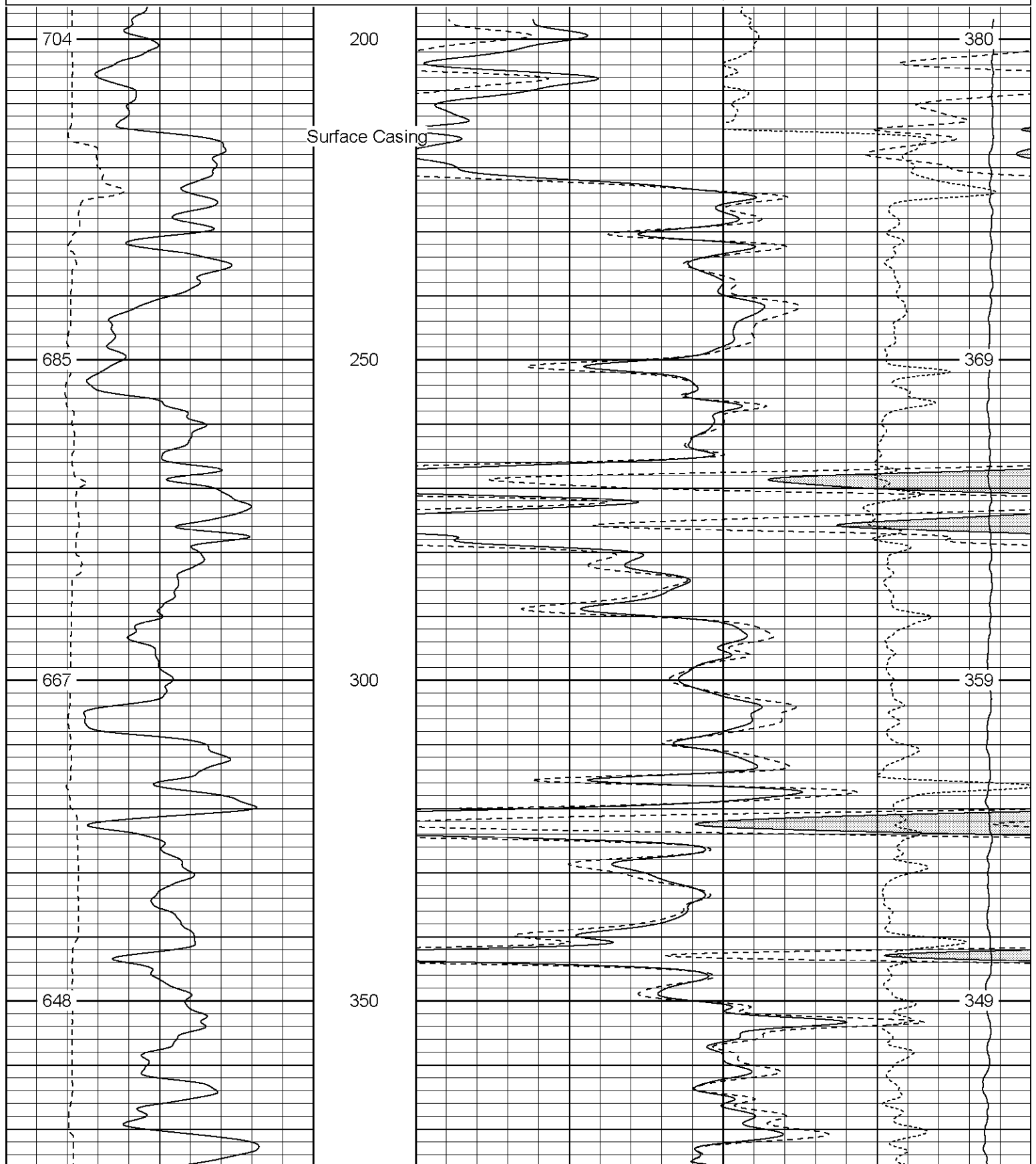
Neutron Density Porosity Presented On Sandstone Matrix.
ABHV Calculated For 5 1/2" Casing.
Well Directions:
First Bosque entrance, right on Big Bingham, first left thru double green gates,
stay on main road, second drive thru location.
Gamma Ray is from Induction Pass.

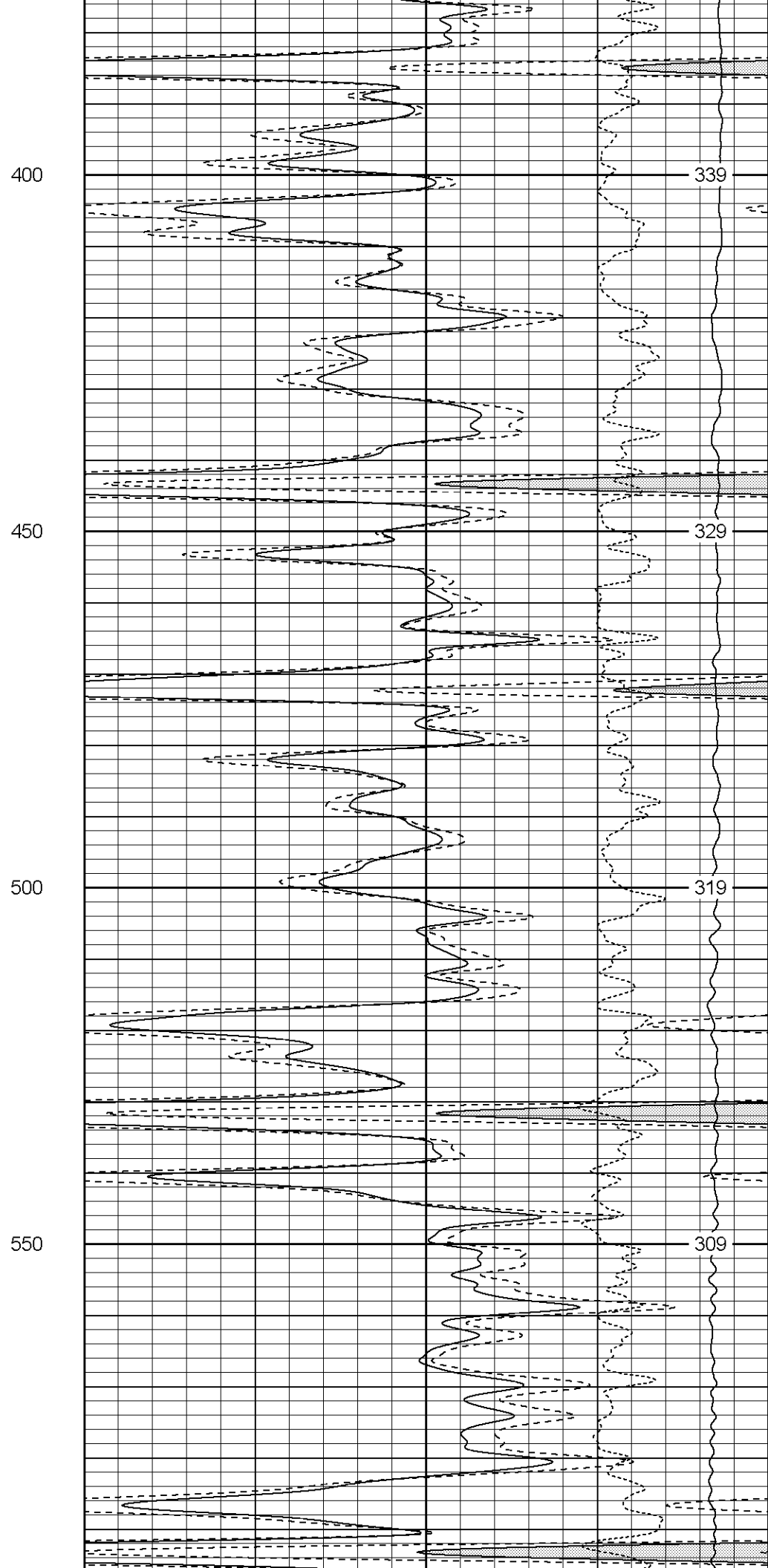
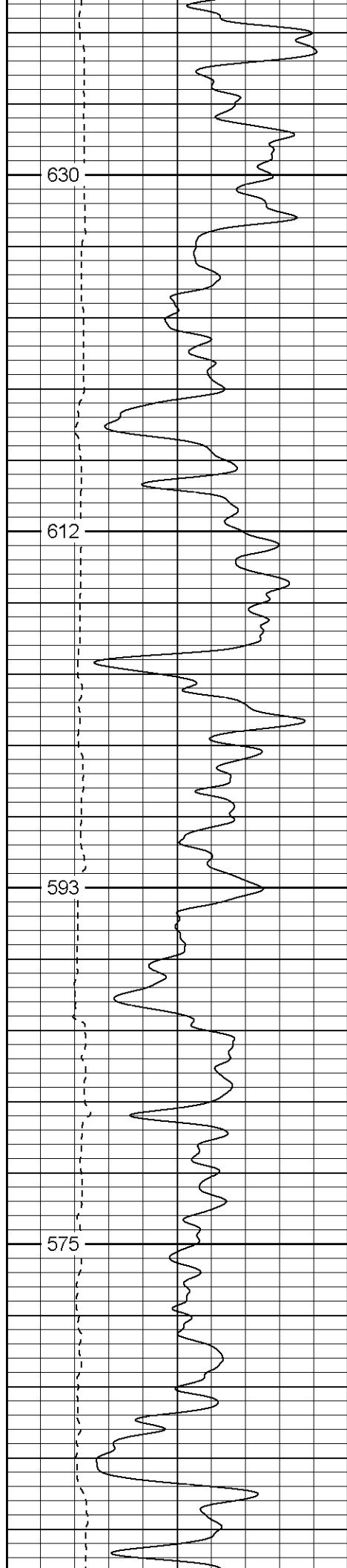
Patterson

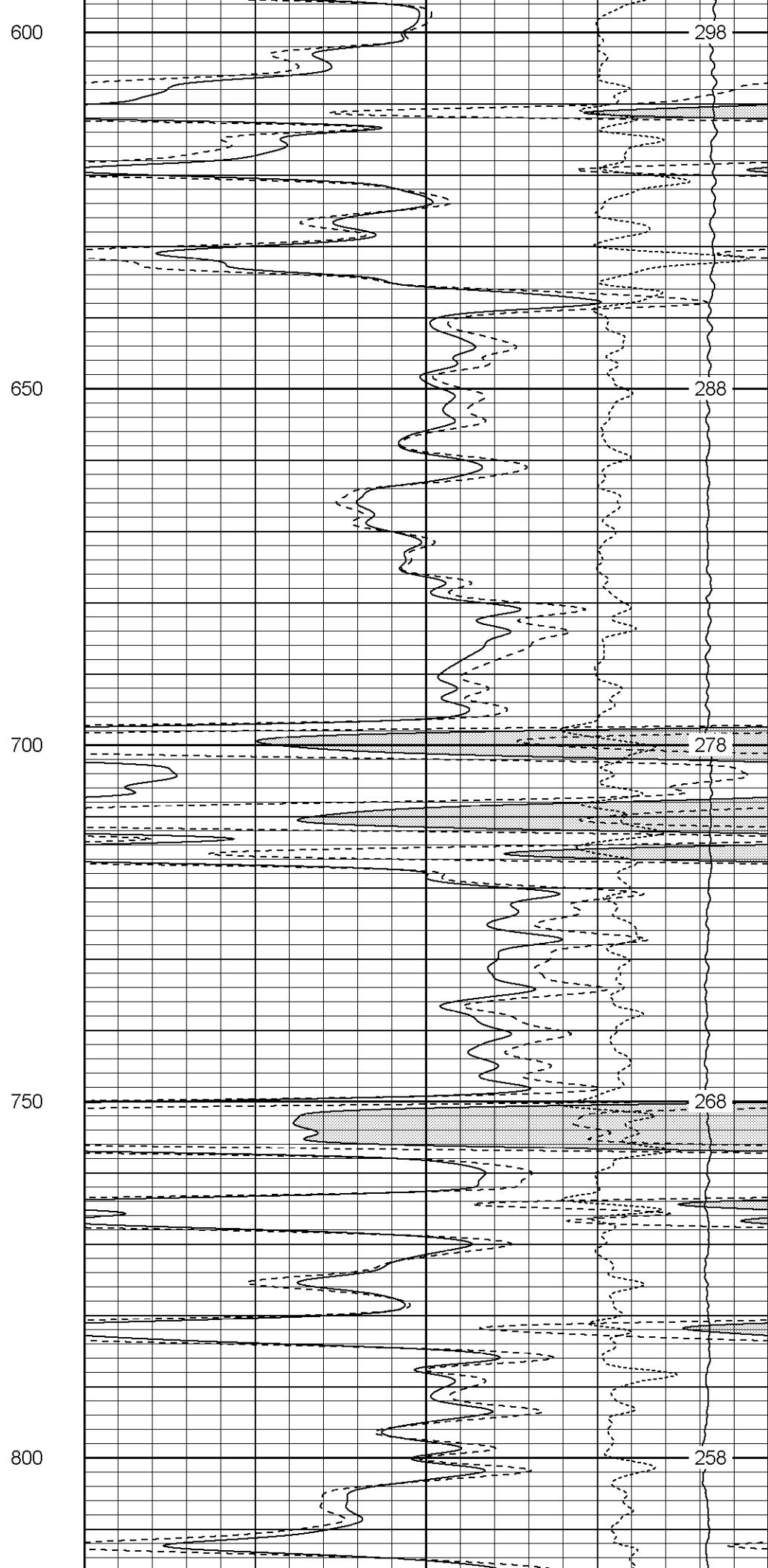
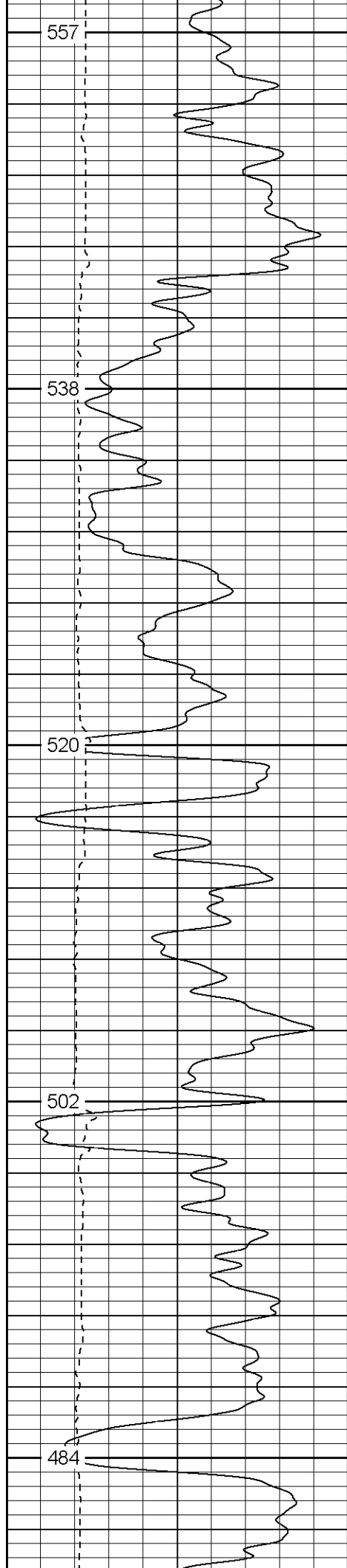
Main Pass

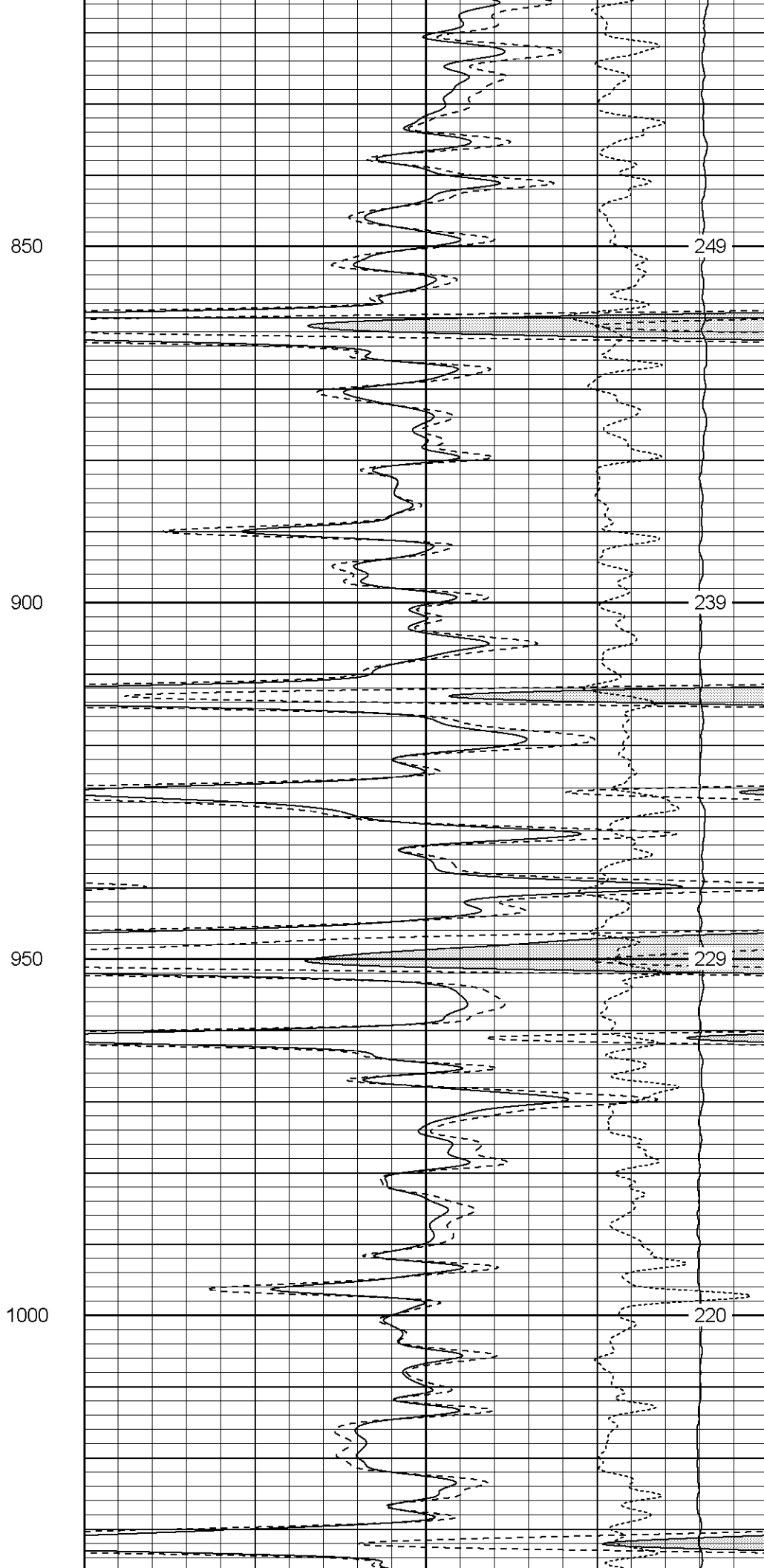
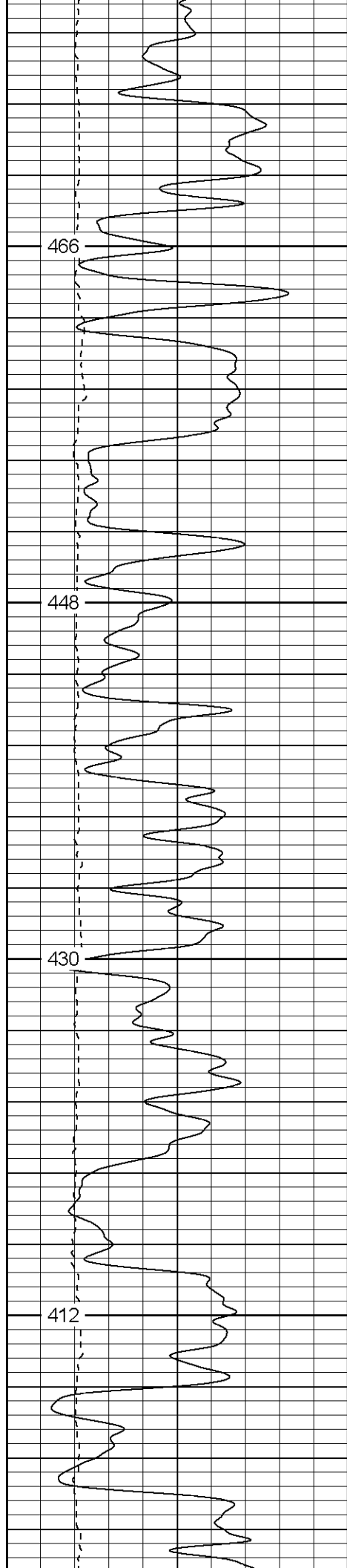
Database File: xtoac1312x.db
Dataset Pathname: pass4.1
Presentation Format: cdl
Dataset Creation: Sat Aug 19 17:44:52 2006 by Calc Warrior 7.0 STD Ope
Charted by: Depth in Feet scaled 1:240

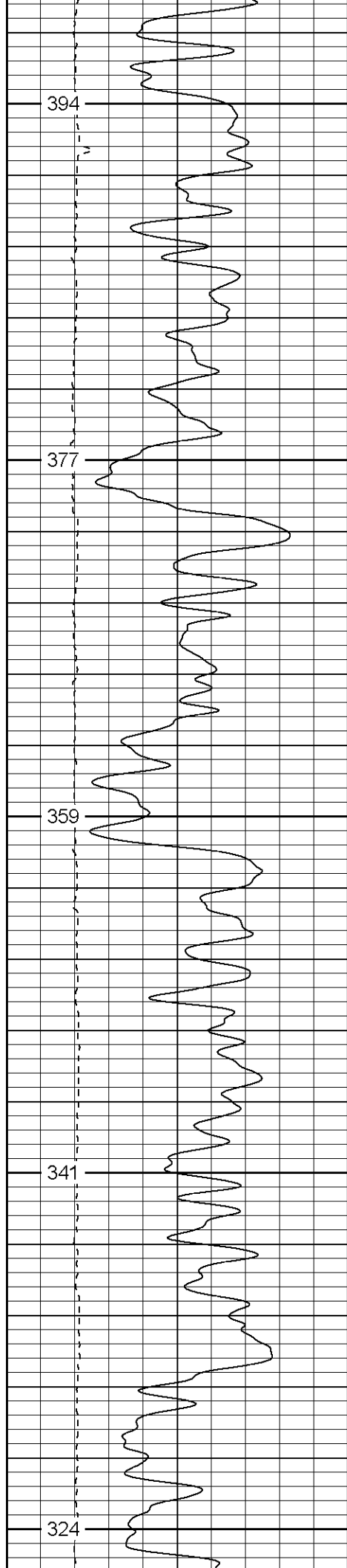
0	GR (GAPI)	200	1	RHOB (g/cc)	2
6	DCAL (in)	16	30	DPOR (pu)	-10
			-0.5	RHOC (g/cc)	0.5
			4000	LTEN (lb)	0











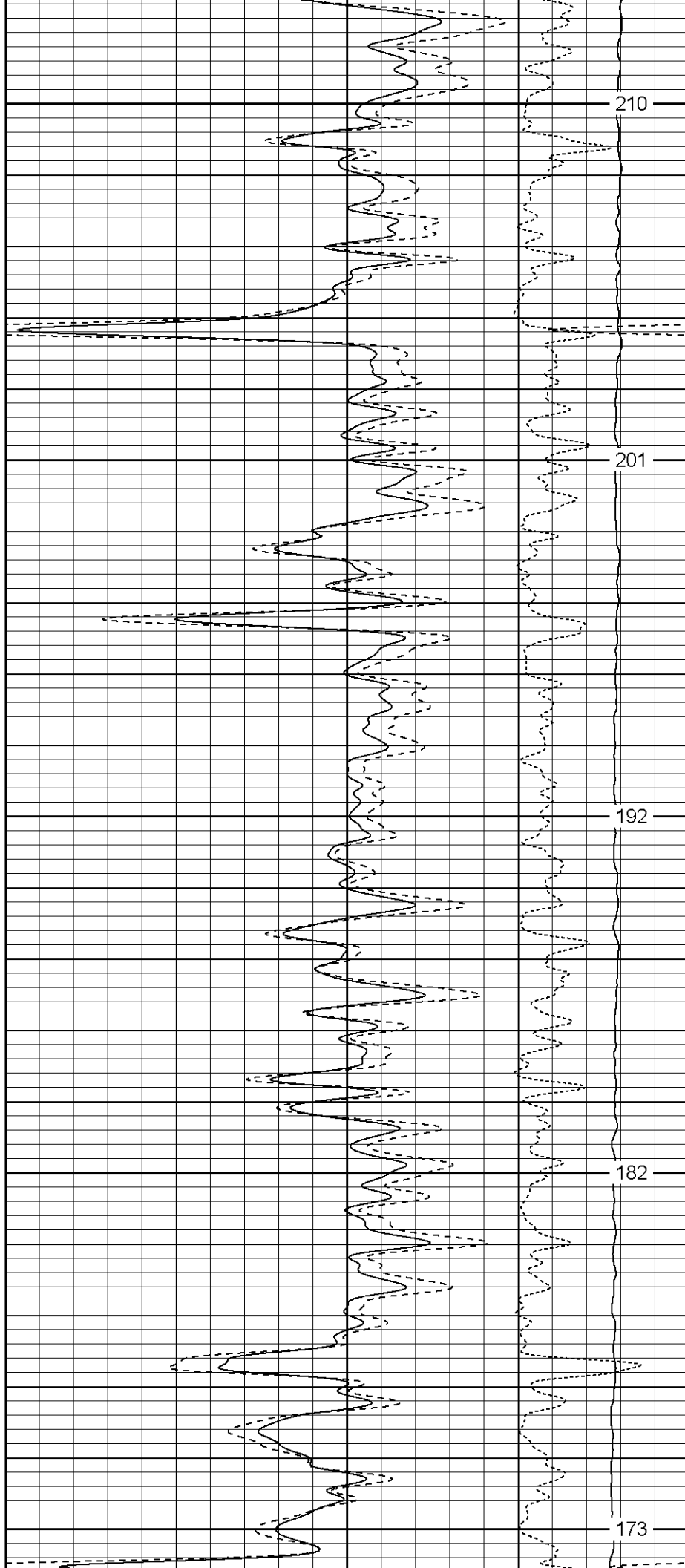
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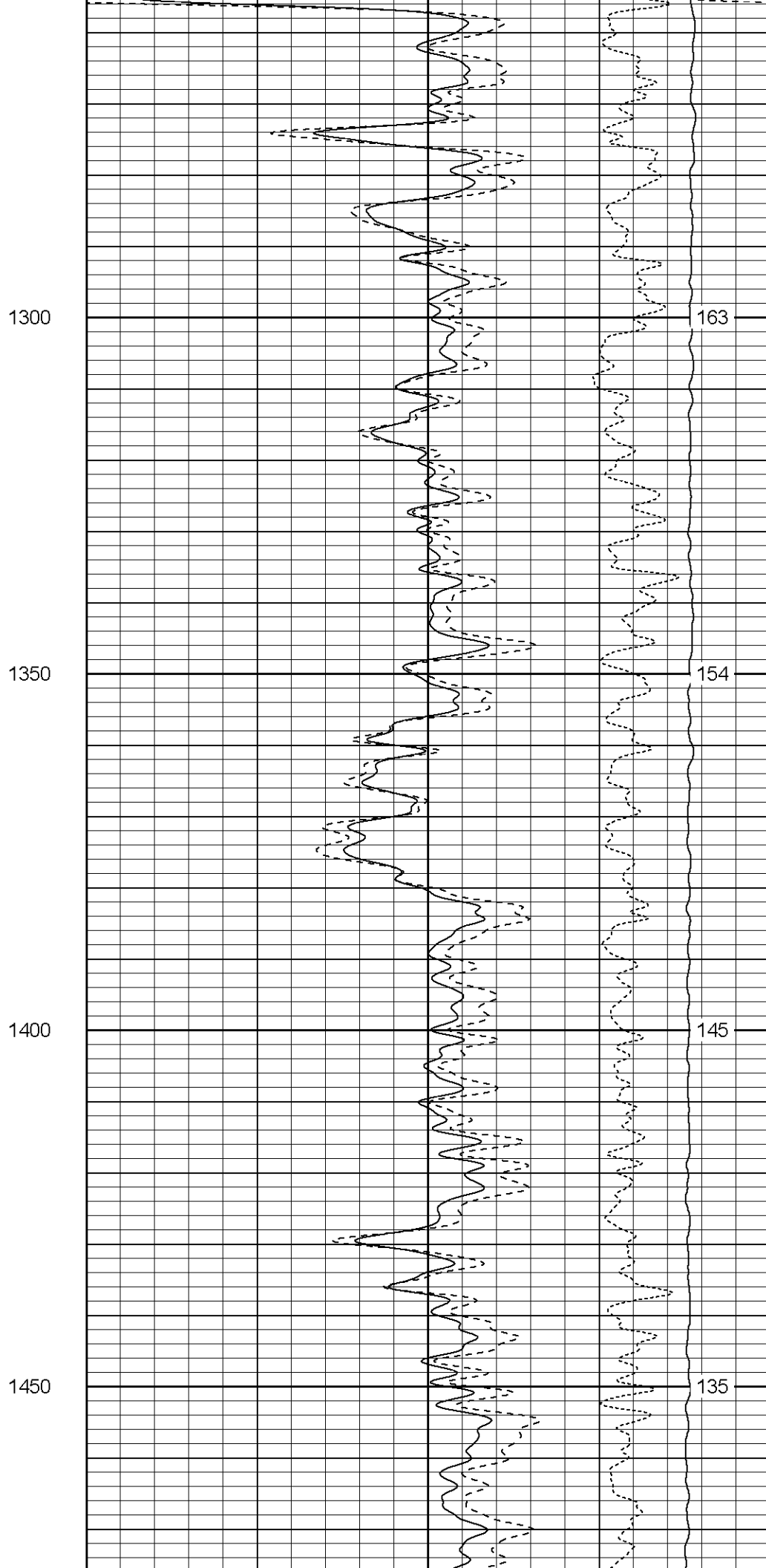
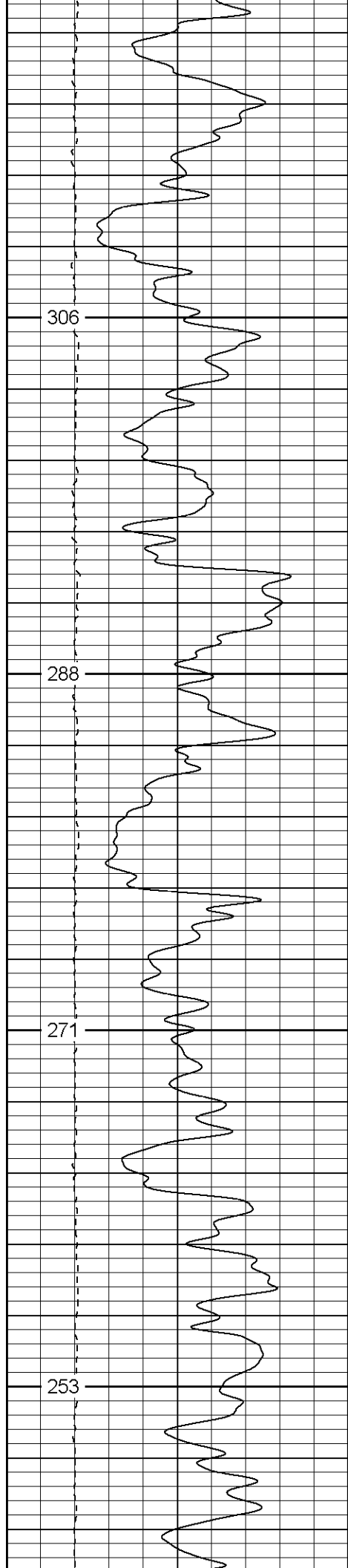
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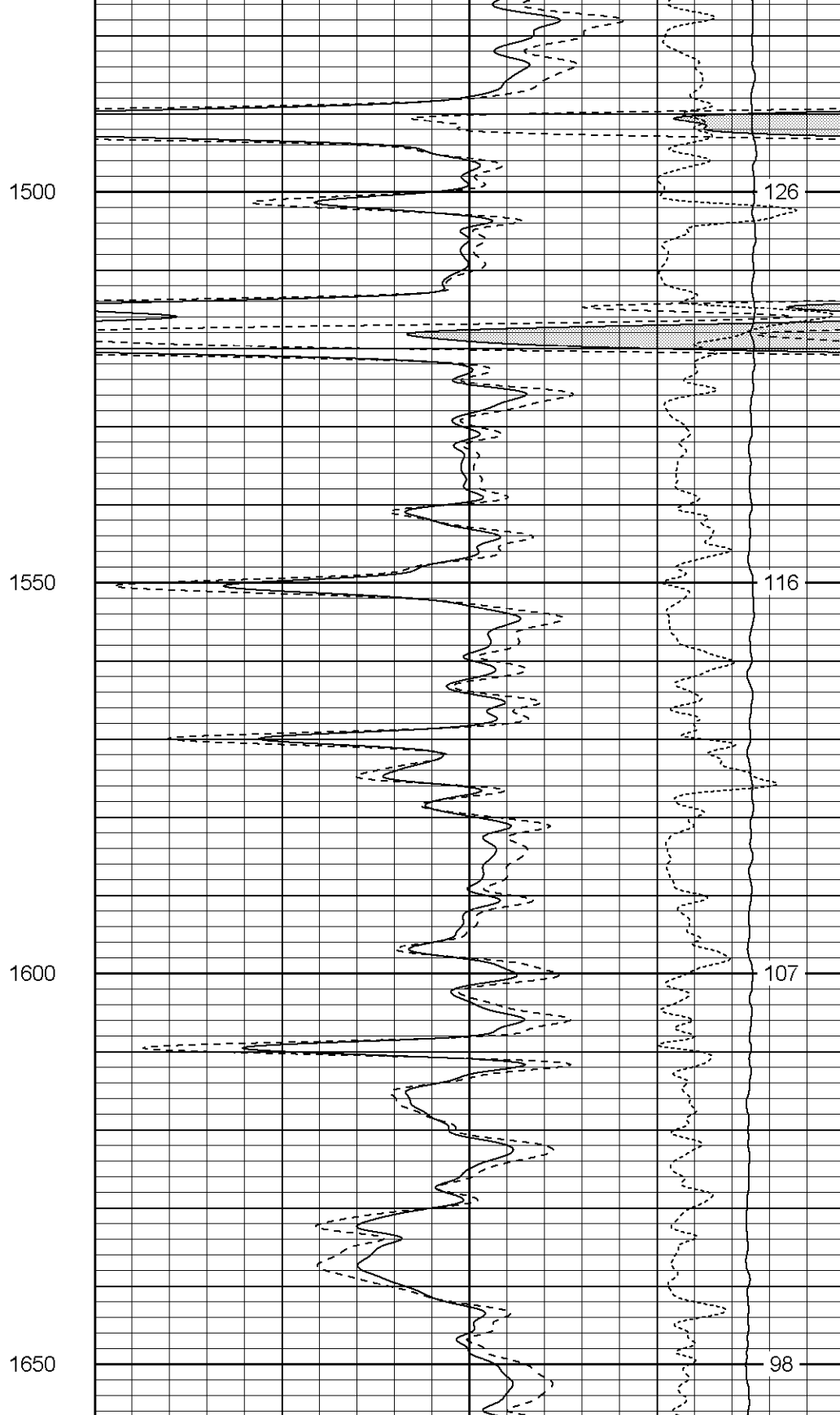
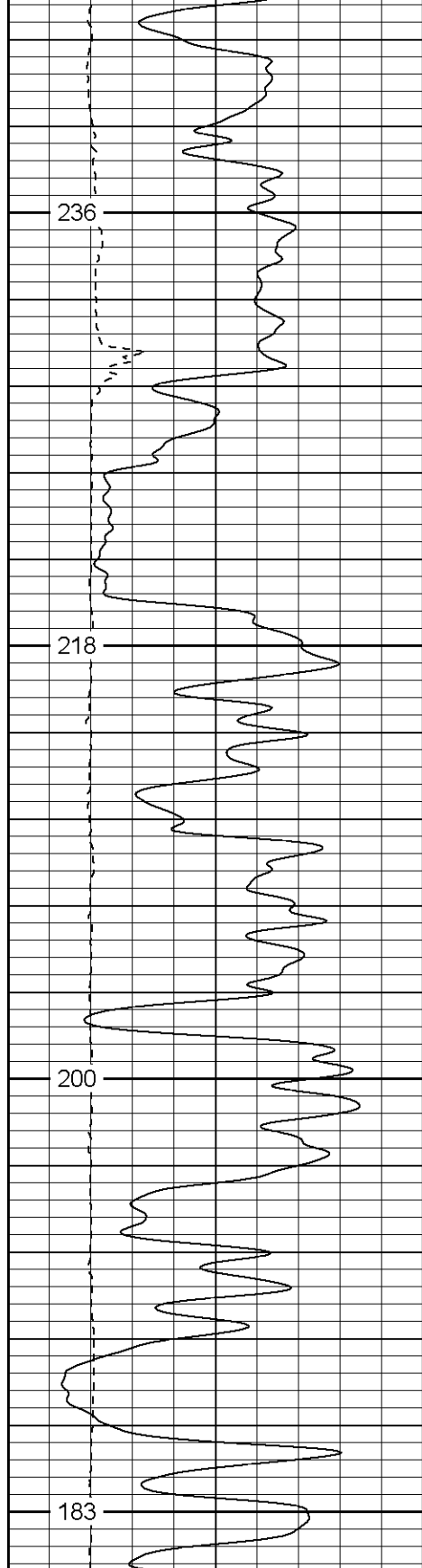
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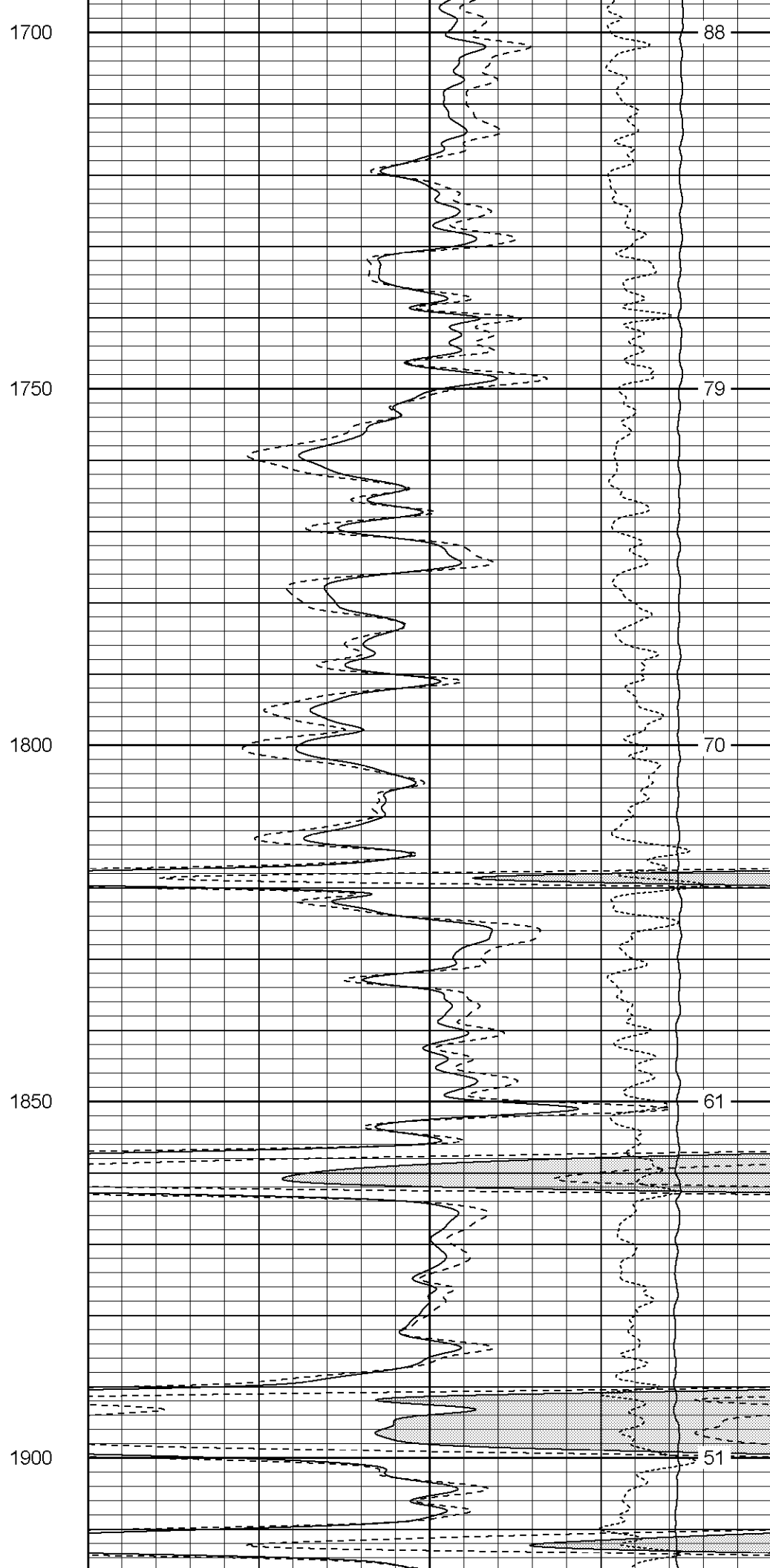
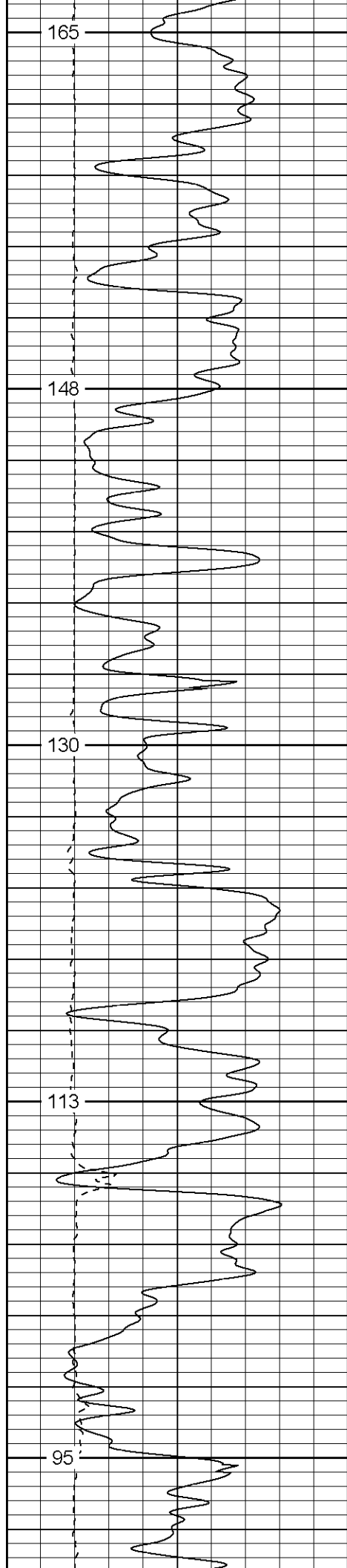
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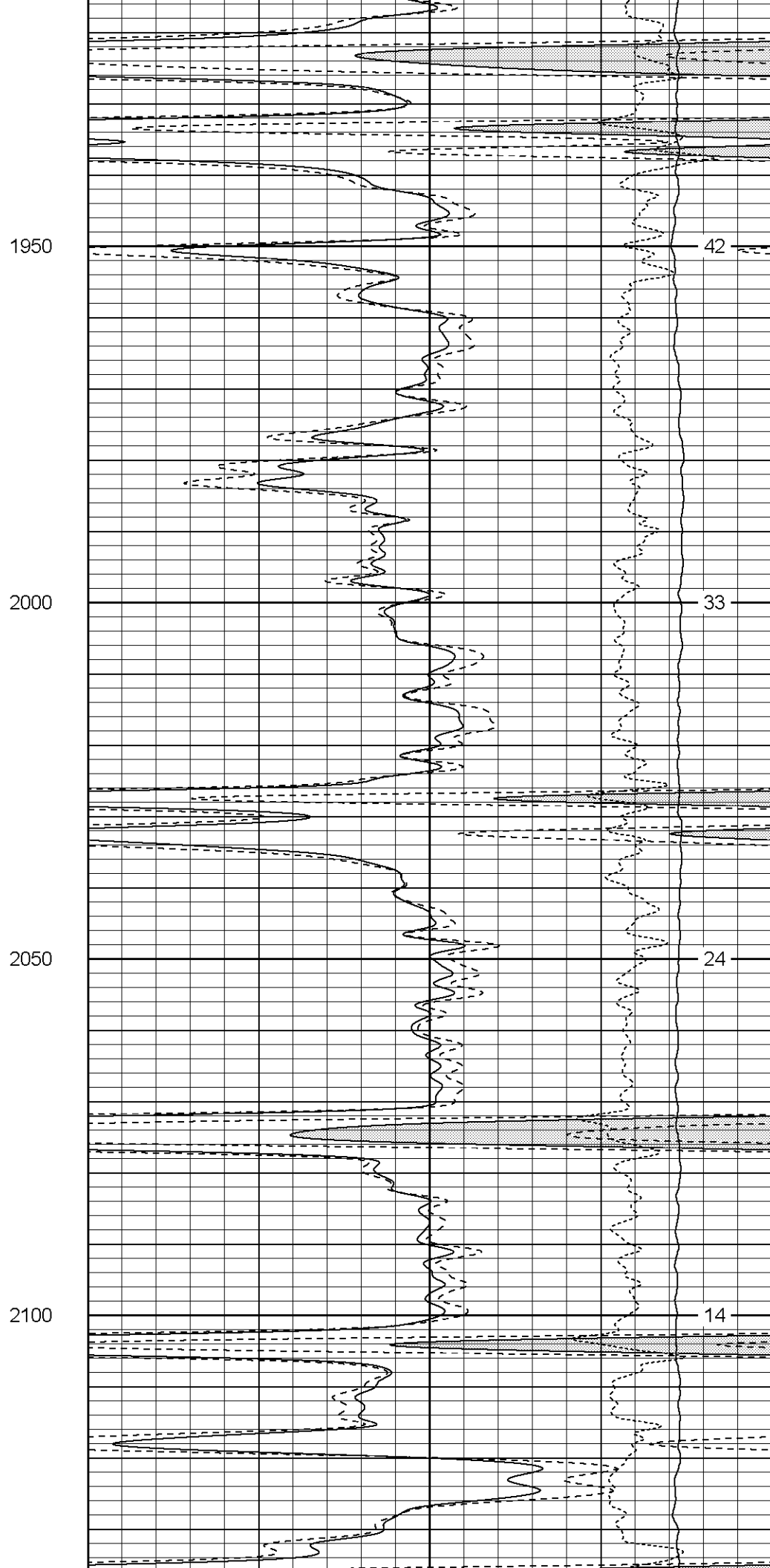
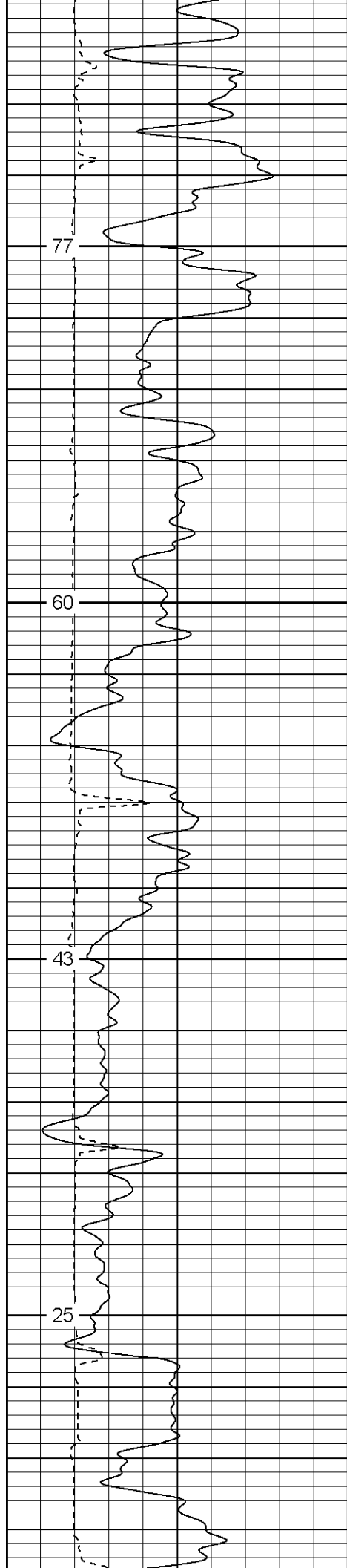
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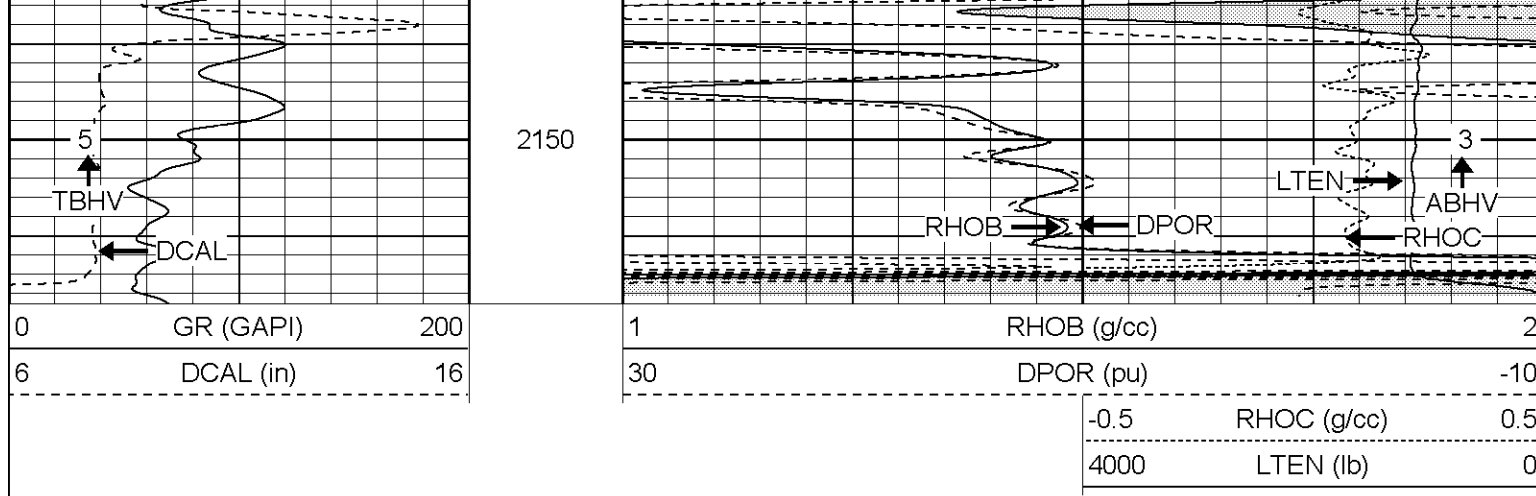










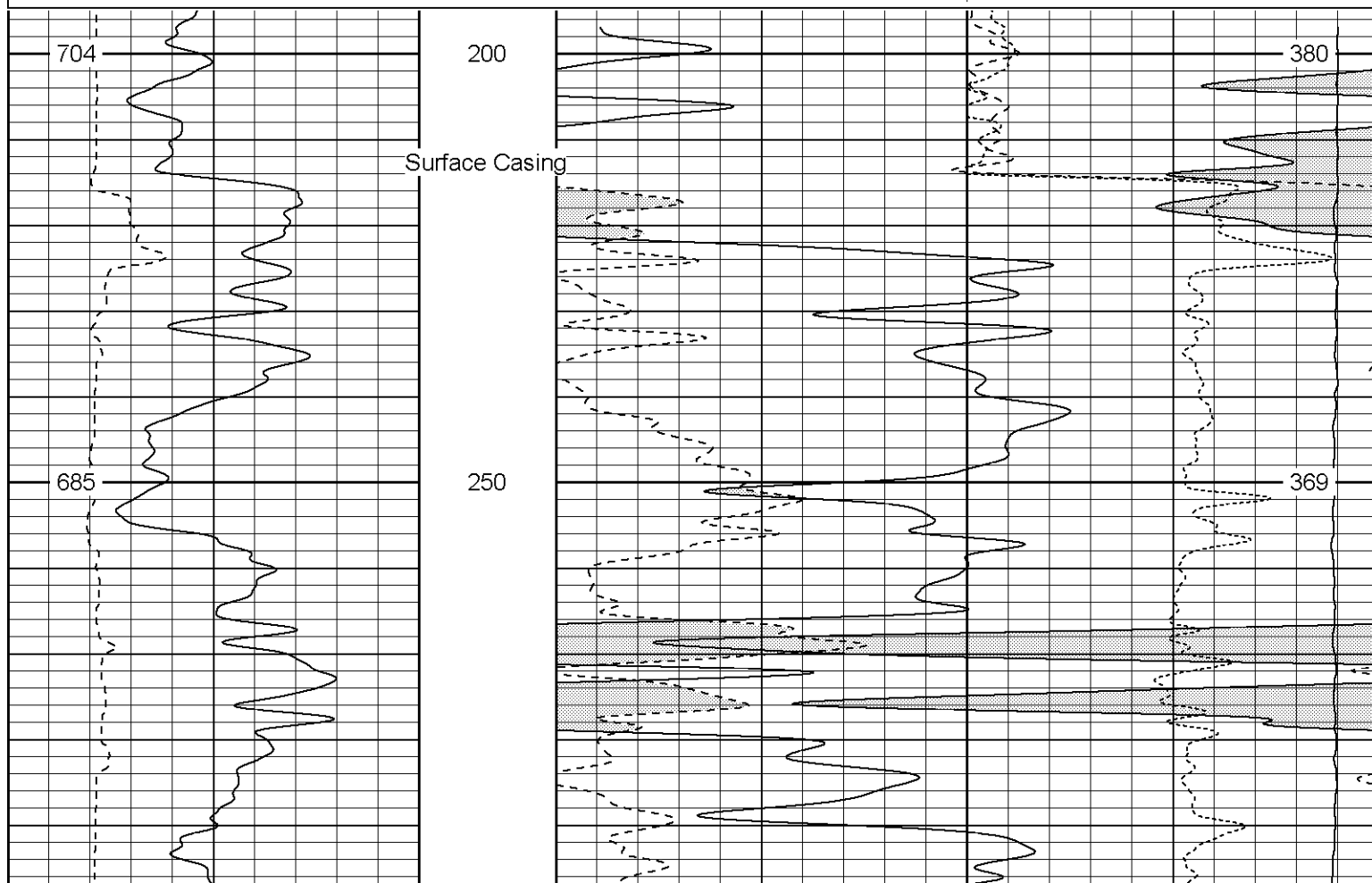


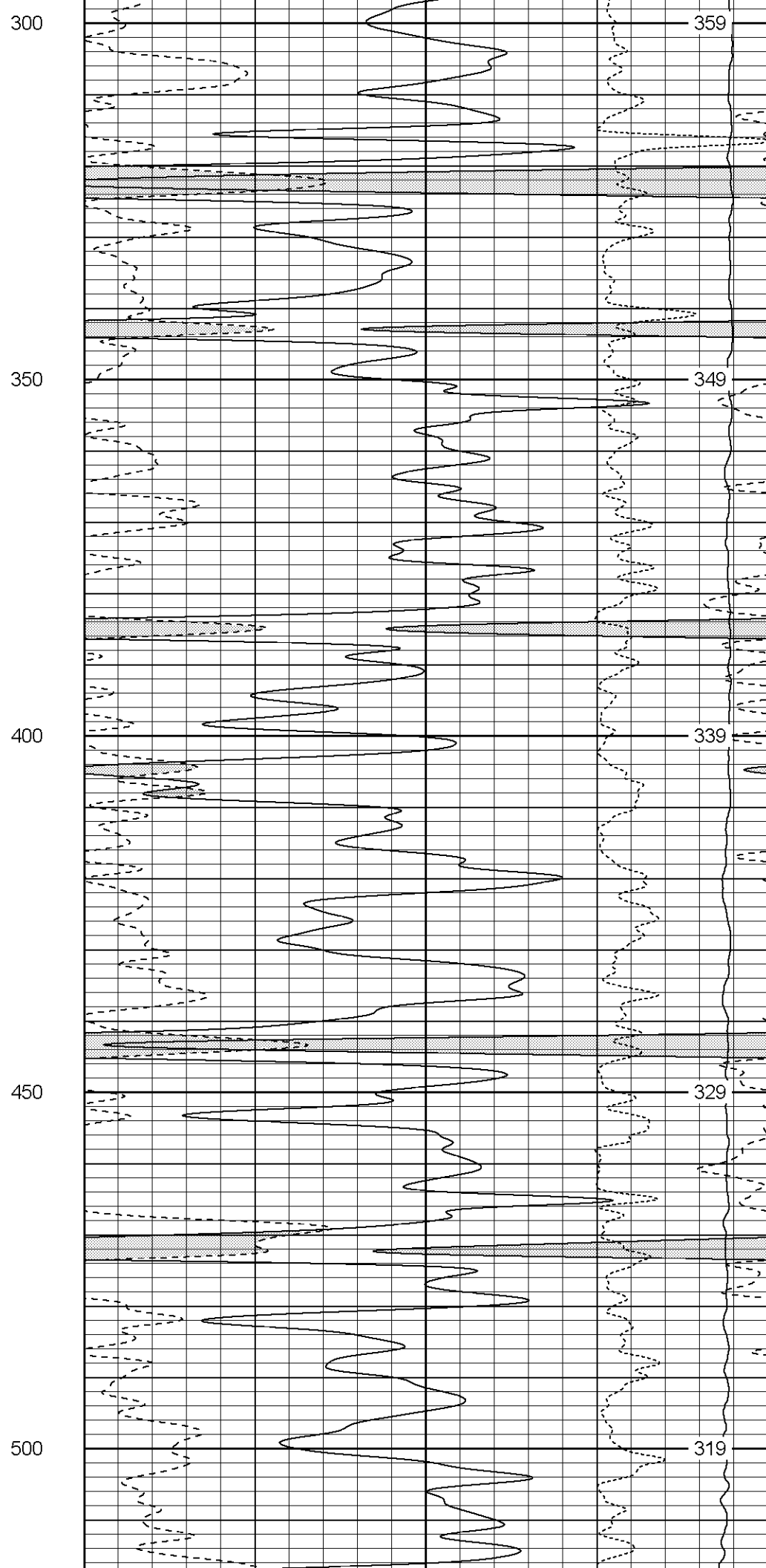
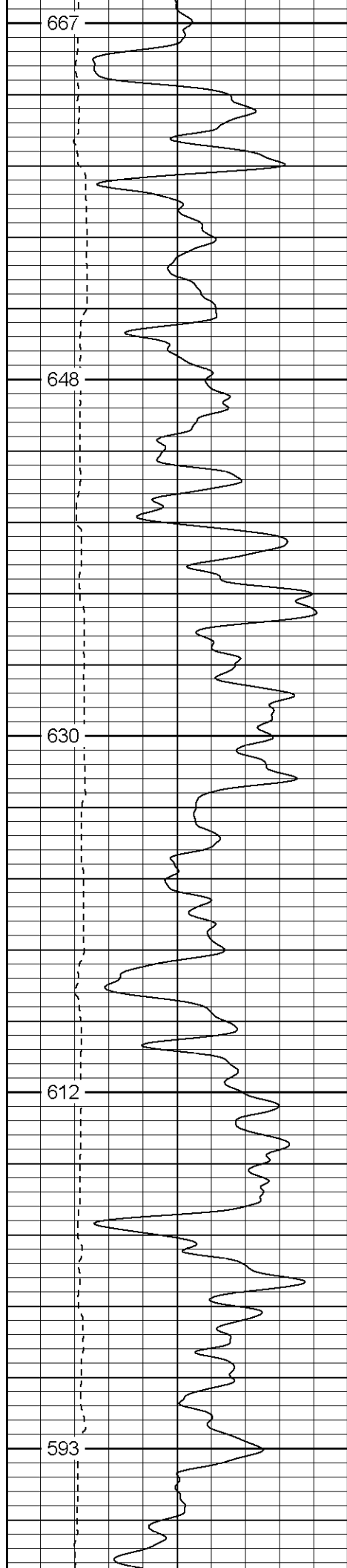
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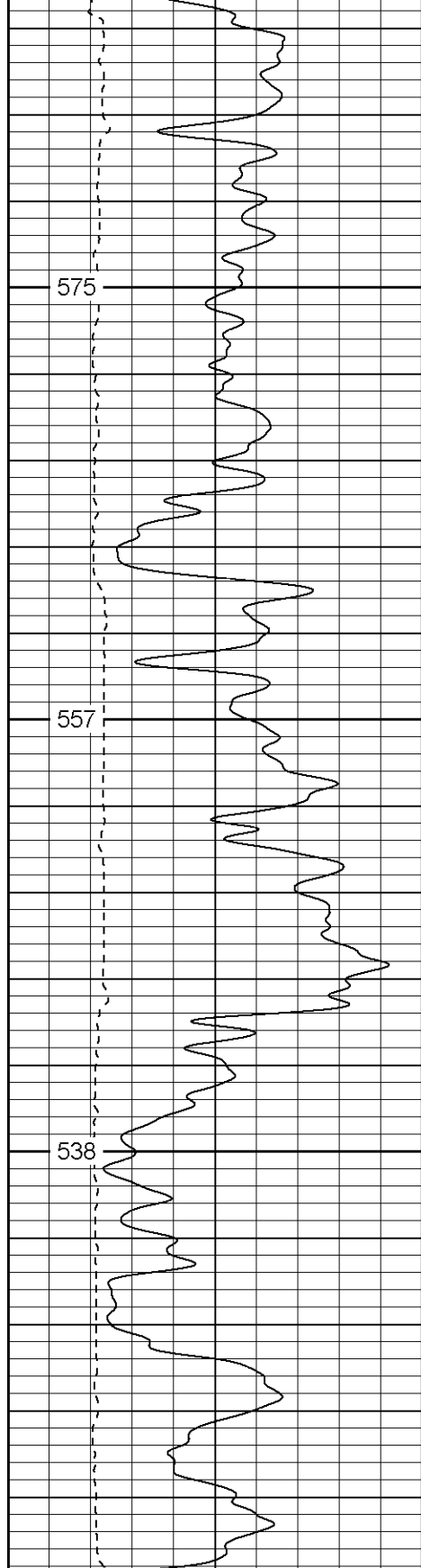
Main Pass

Database File: xtoac1312x.db
 Dataset Pathname: pass4.1
 Presentation Format: cdnl
 Dataset Creation: Sat Aug 19 17:44:52 2006 by Calc Warrior 7.0 STD Ope
 Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
			-0.5	RHOC (g/cc)	0.5
			5000	LTEN (lb)	0



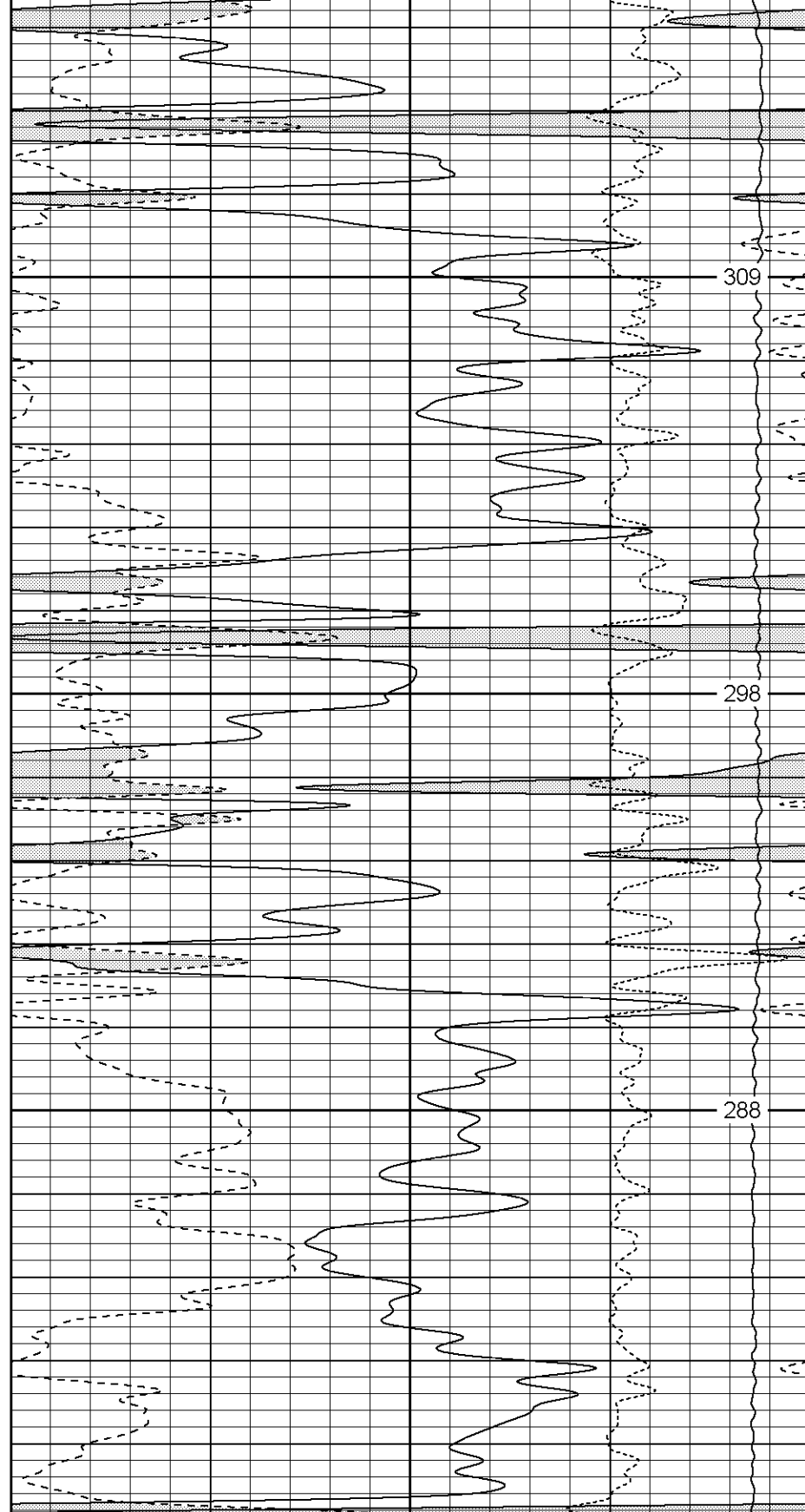


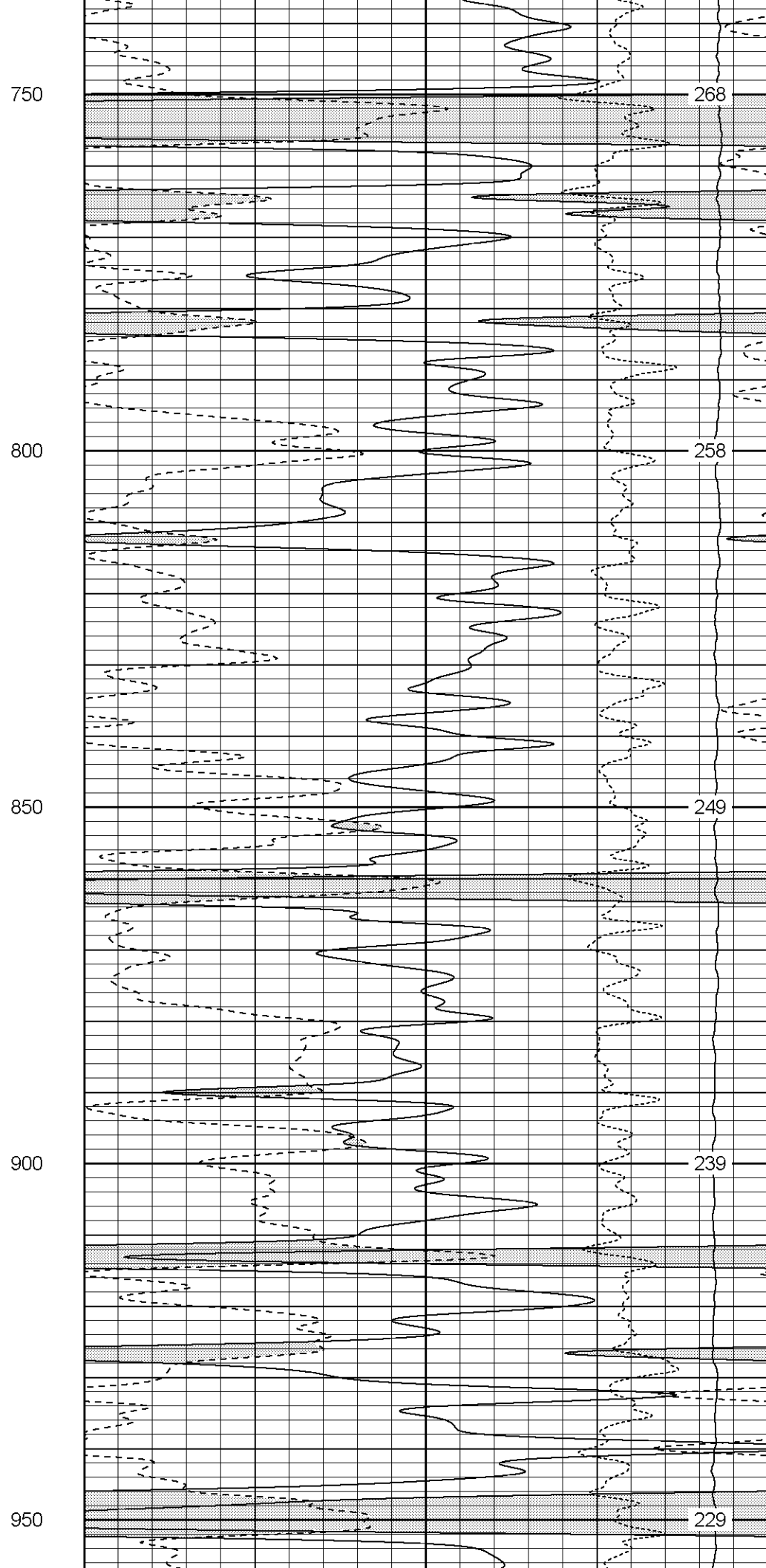
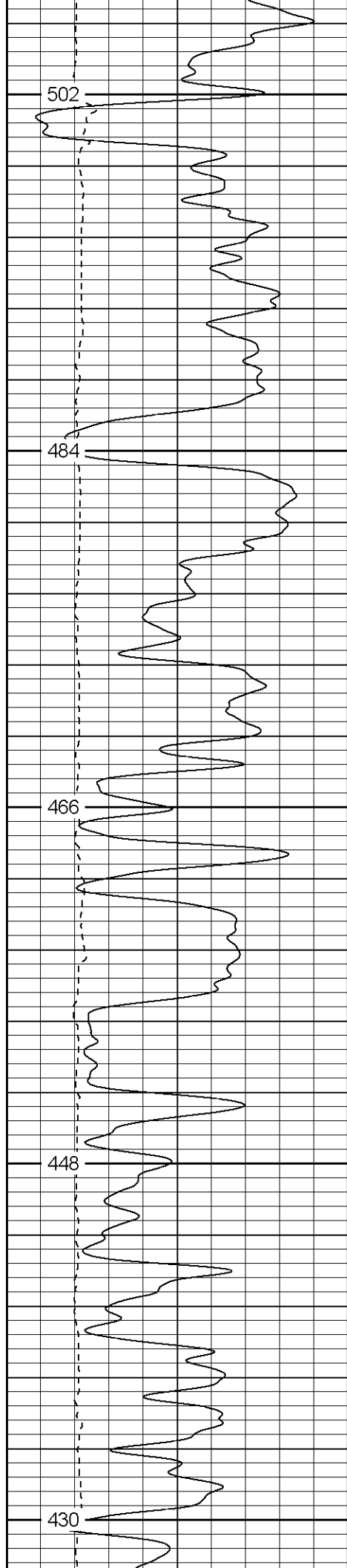


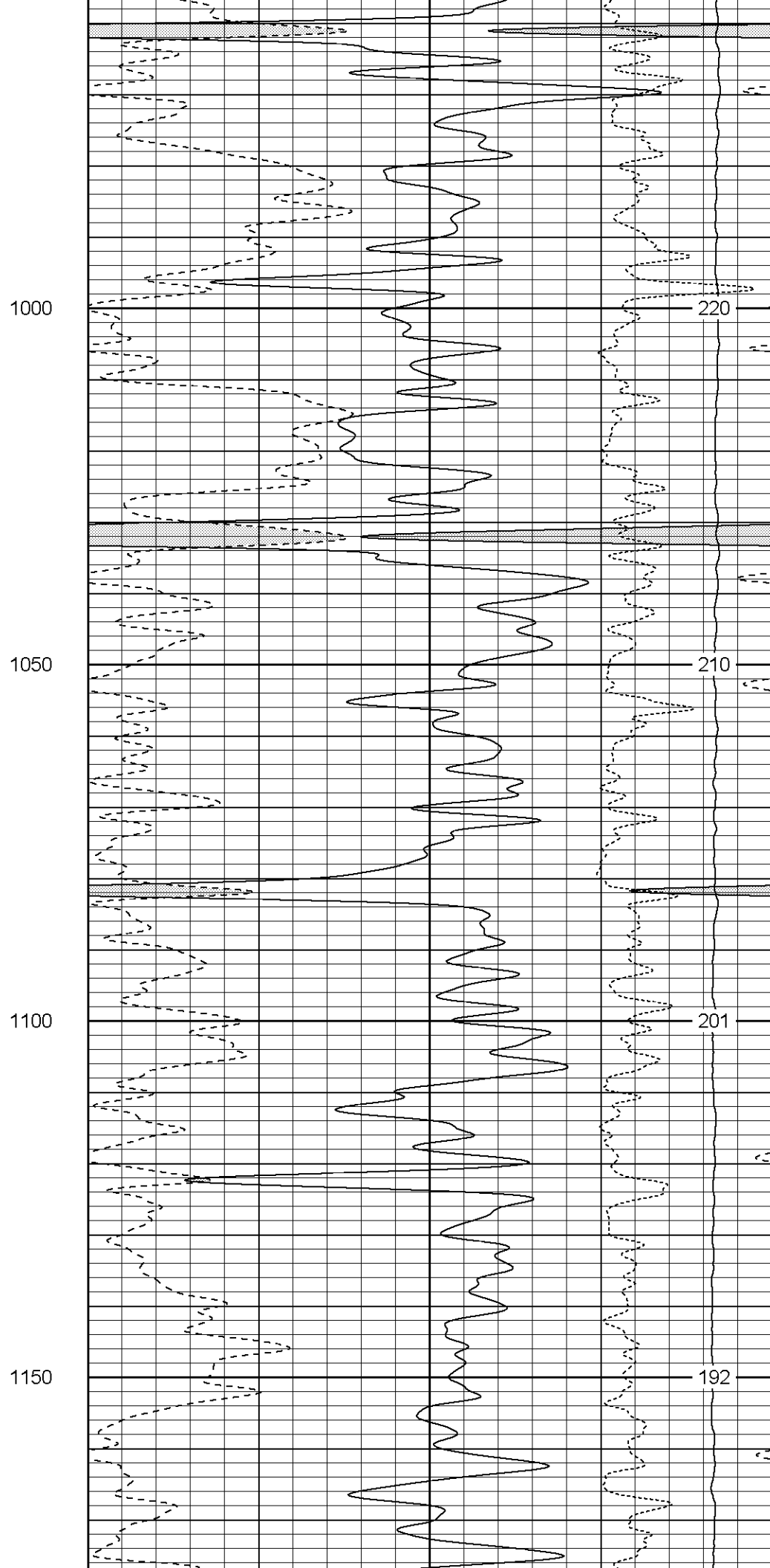
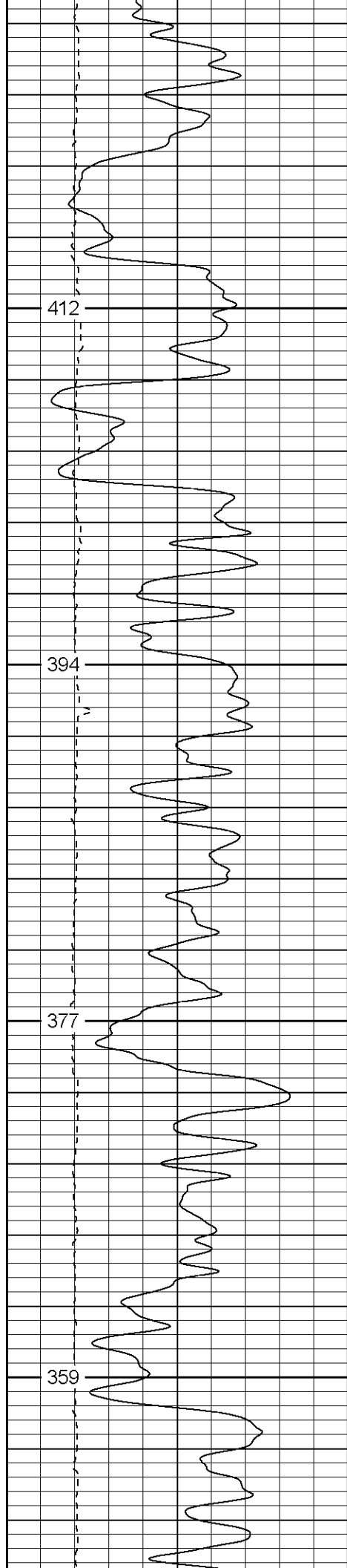
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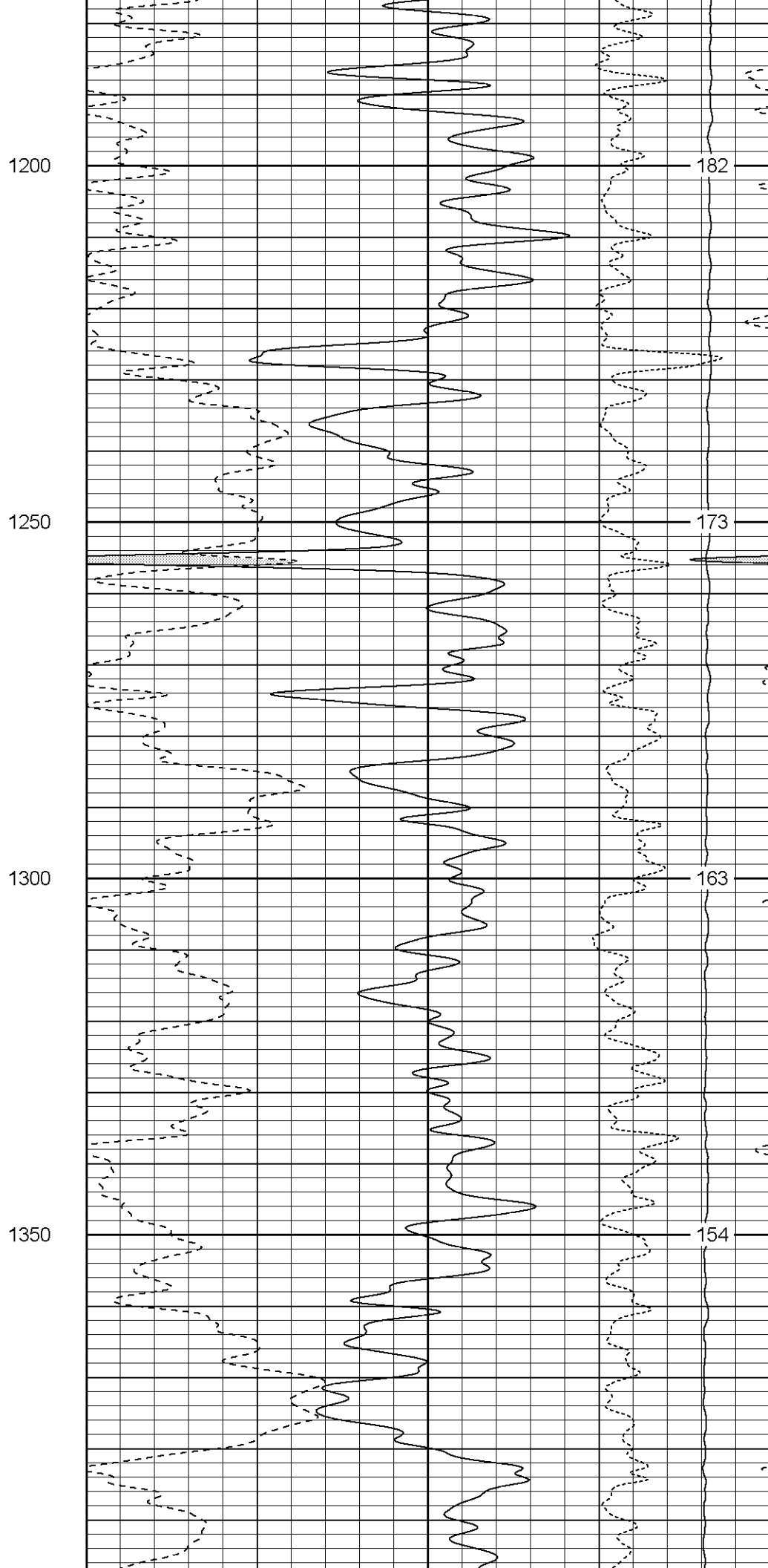
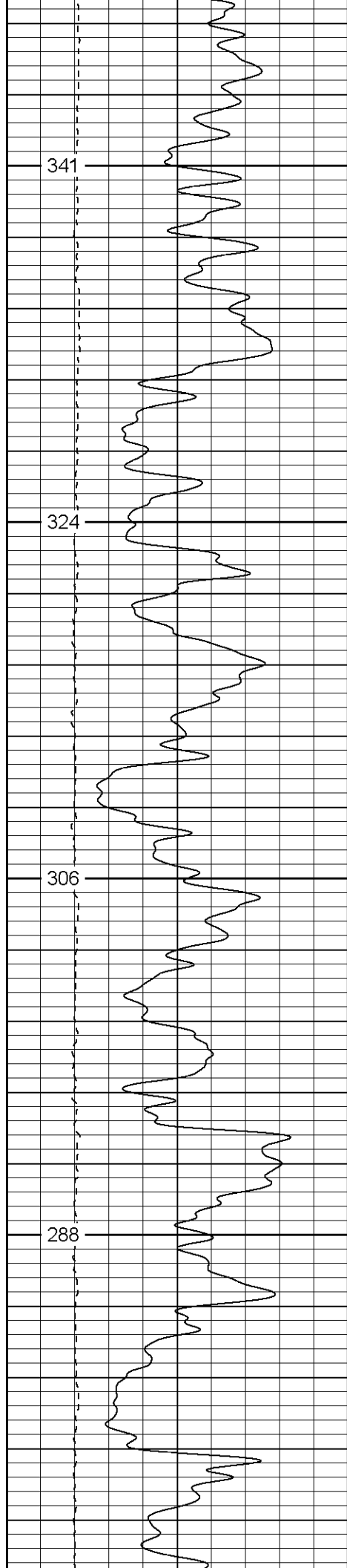
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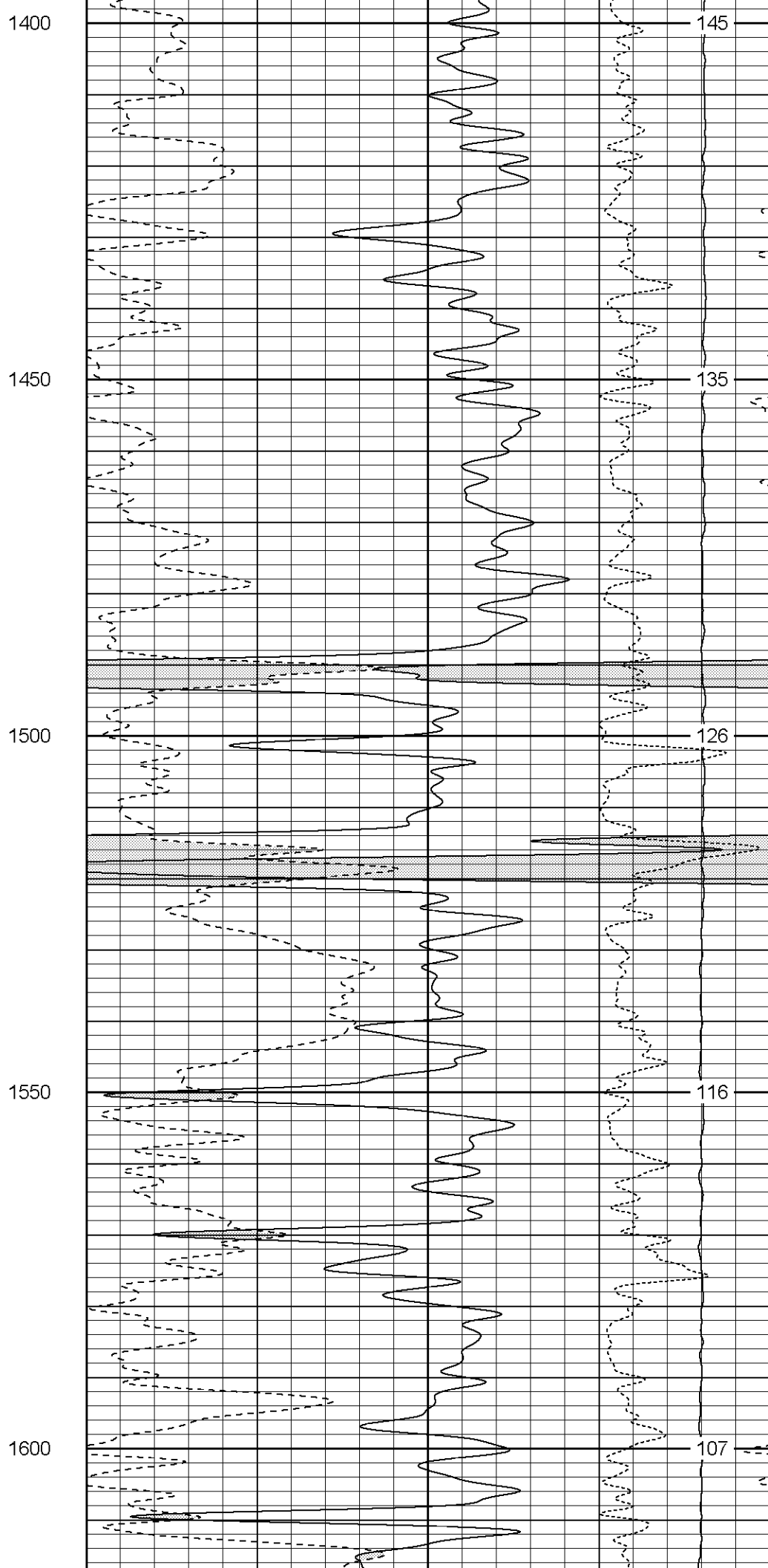
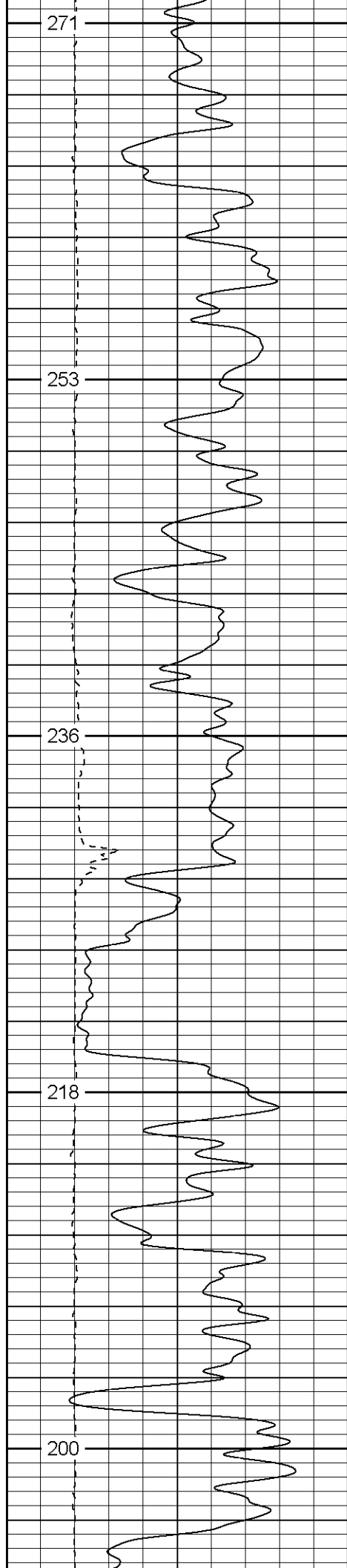
650

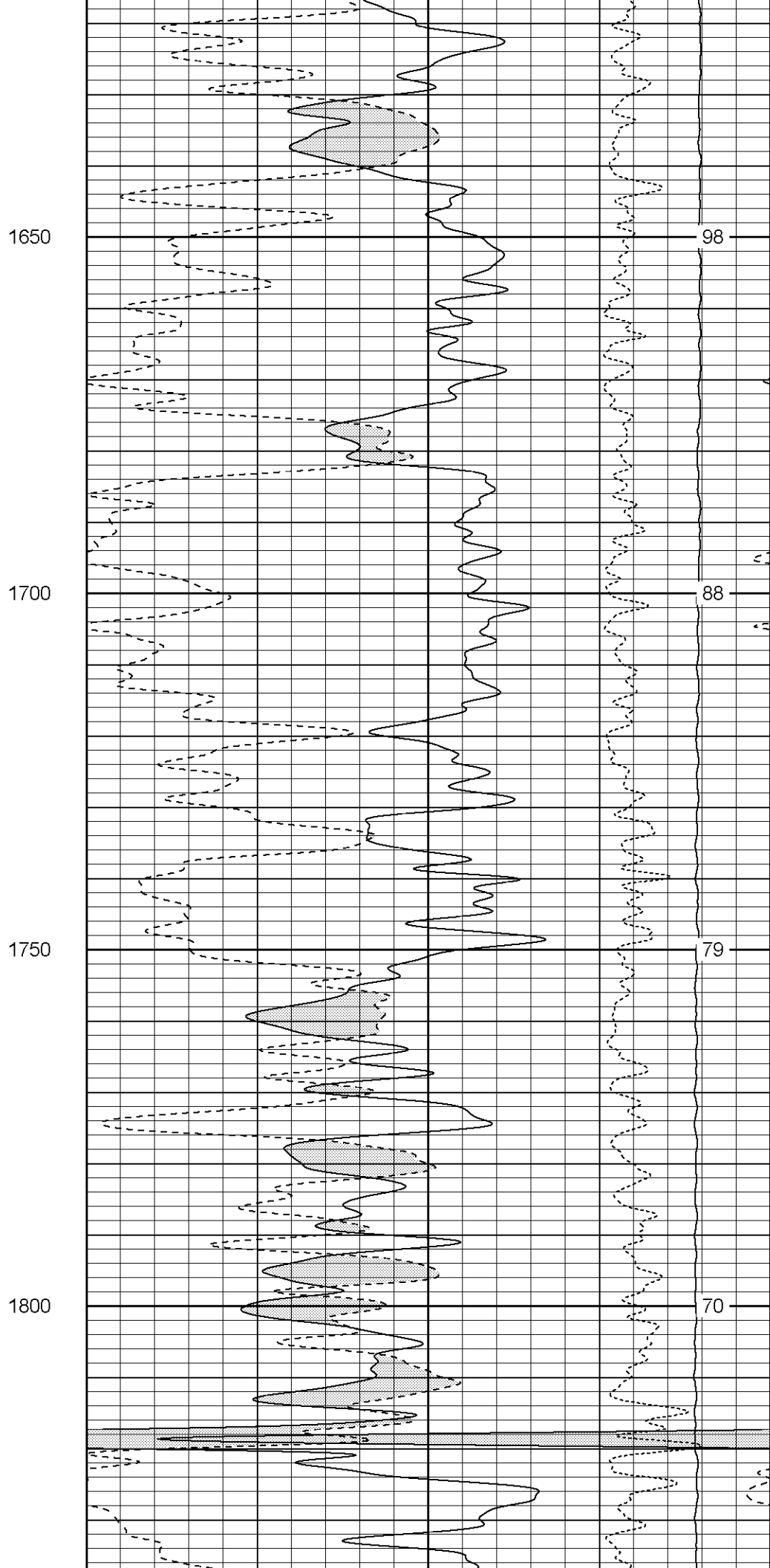
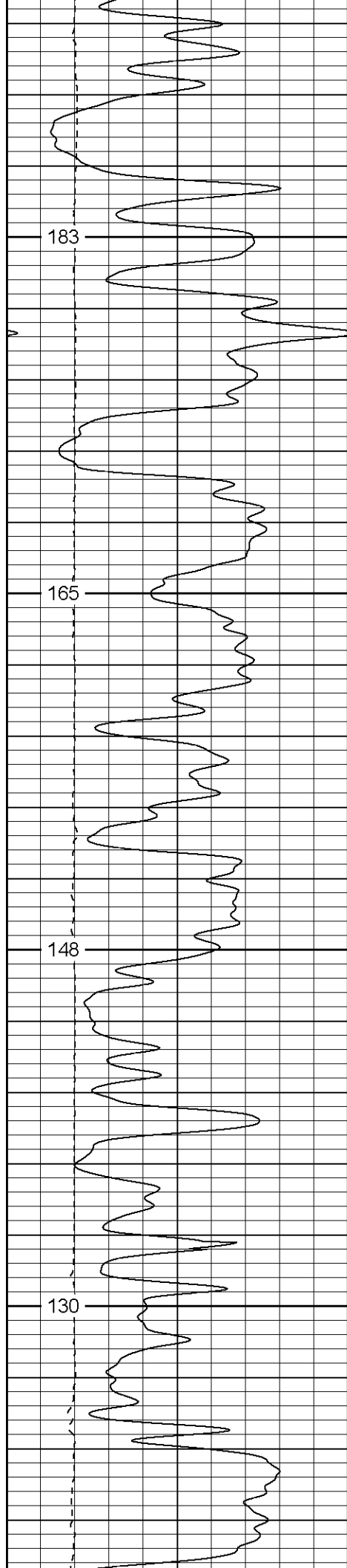


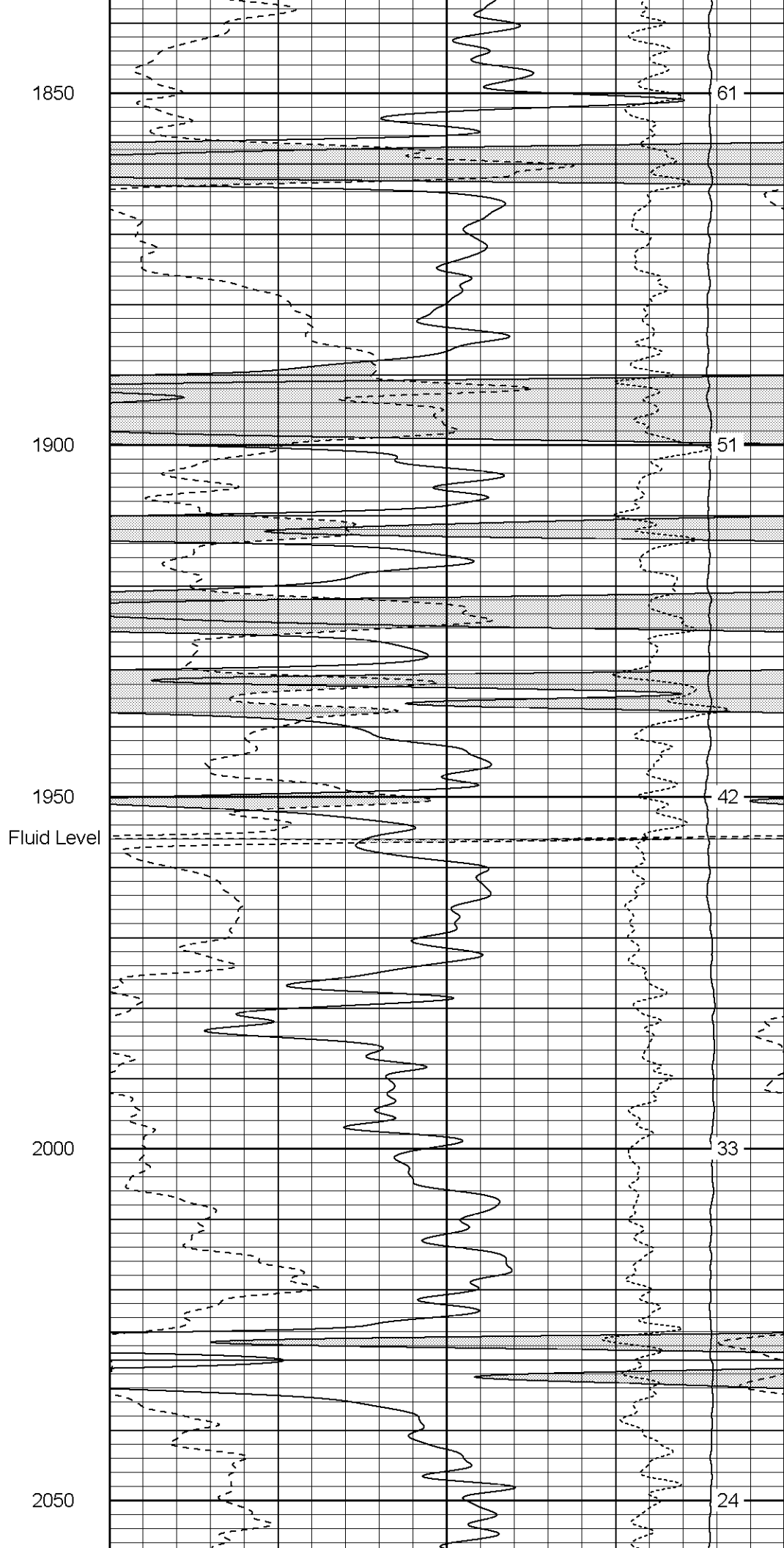
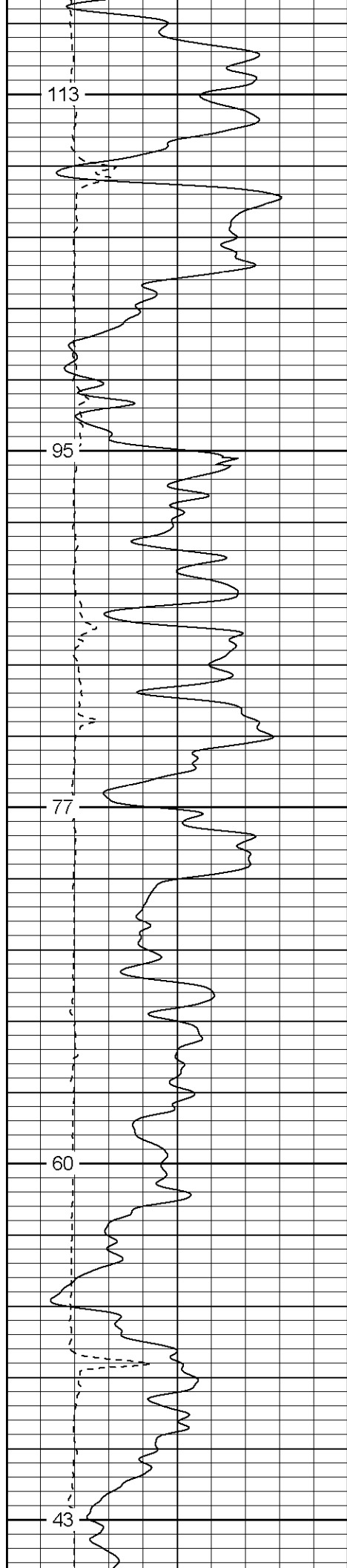


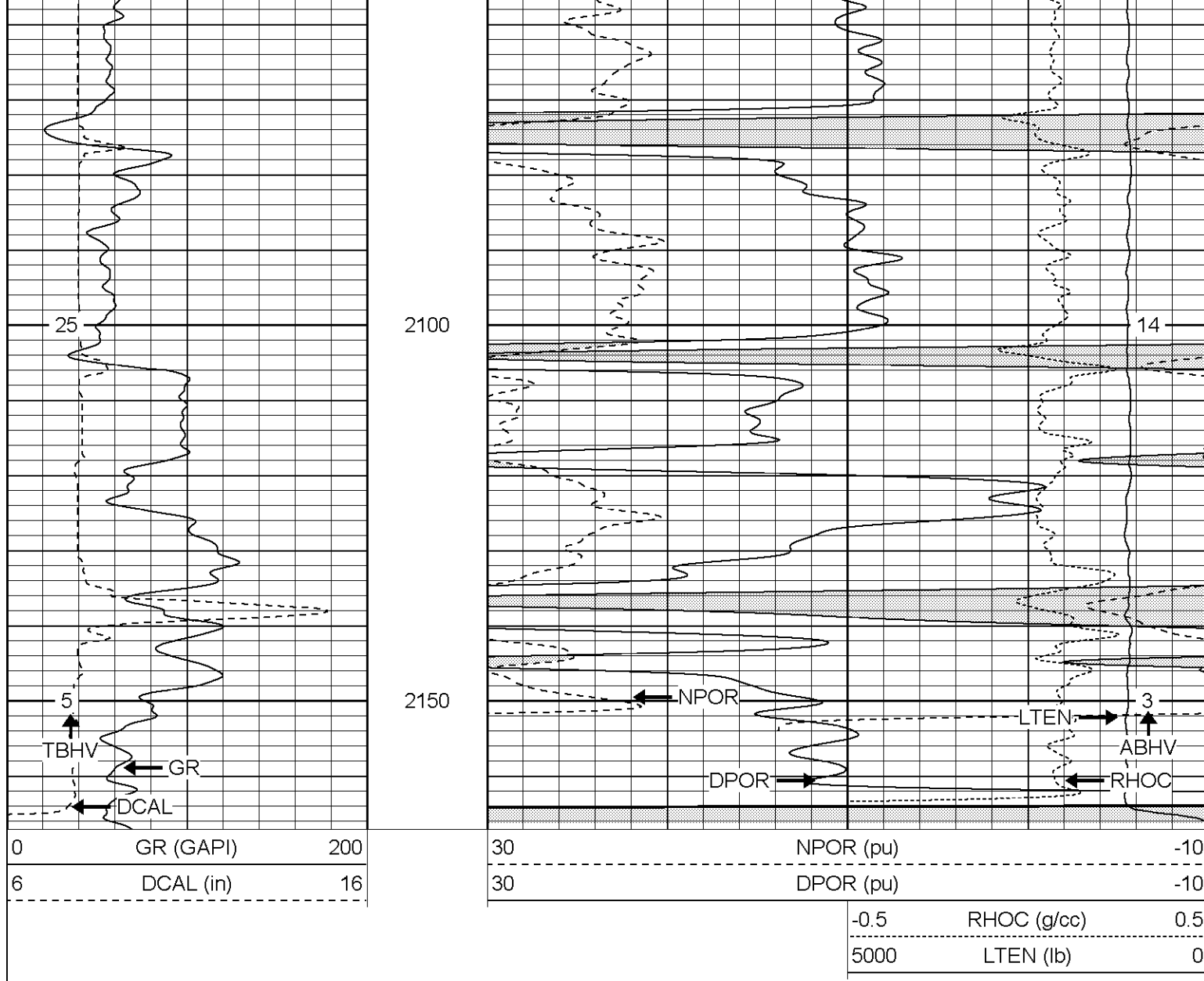










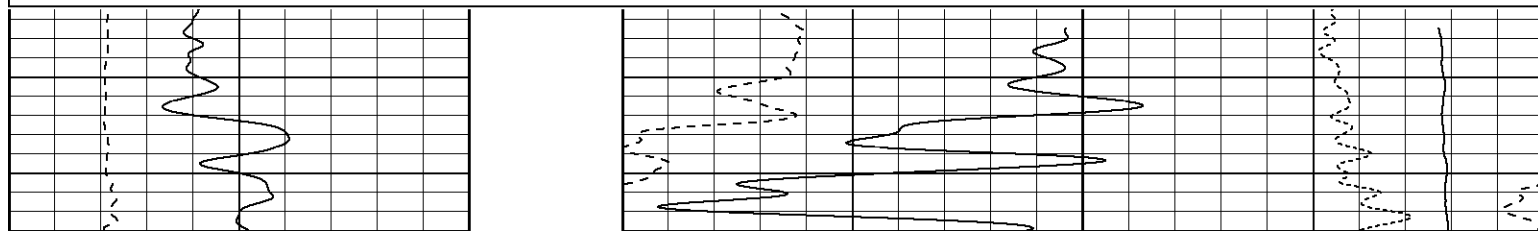


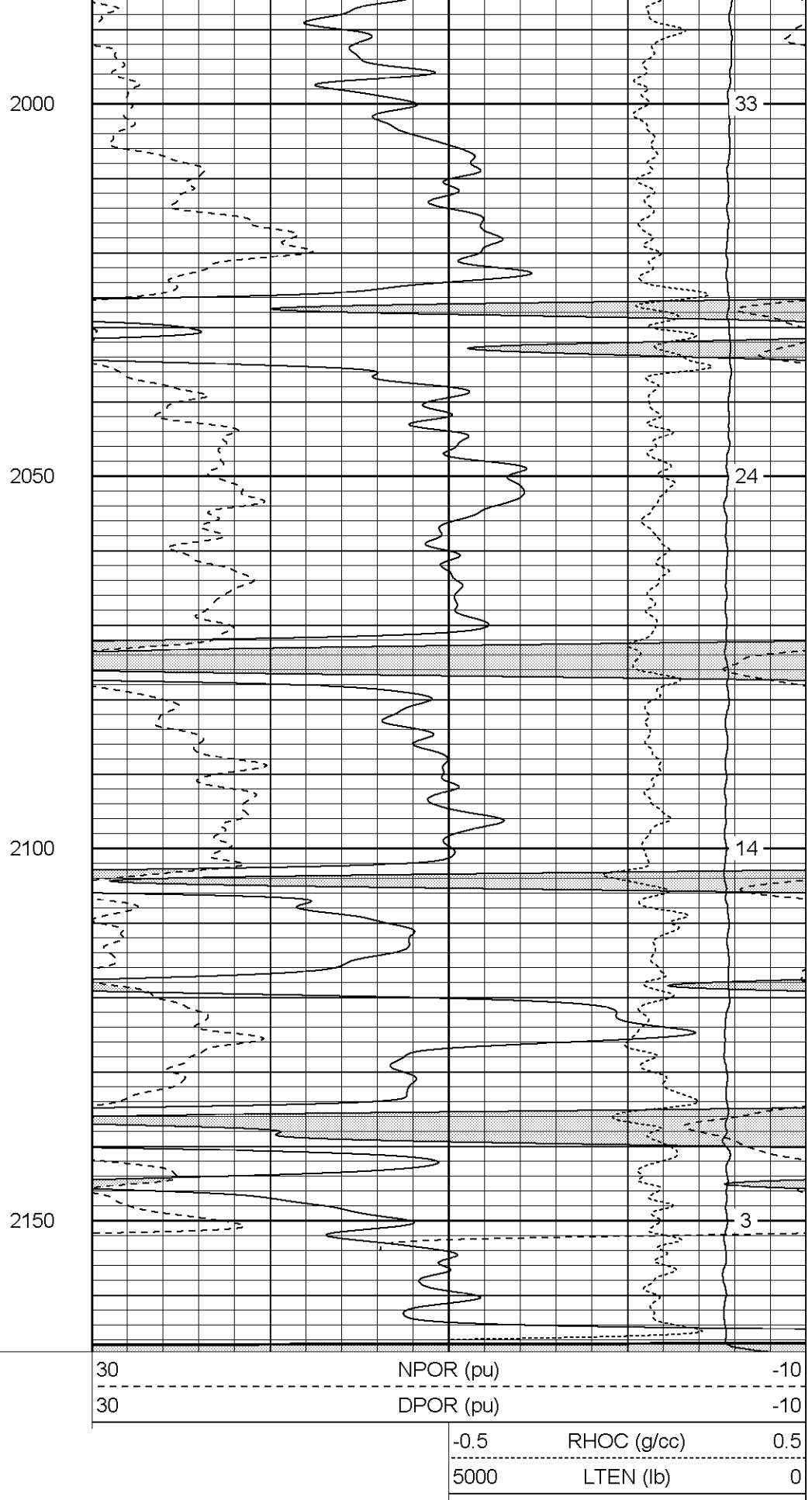
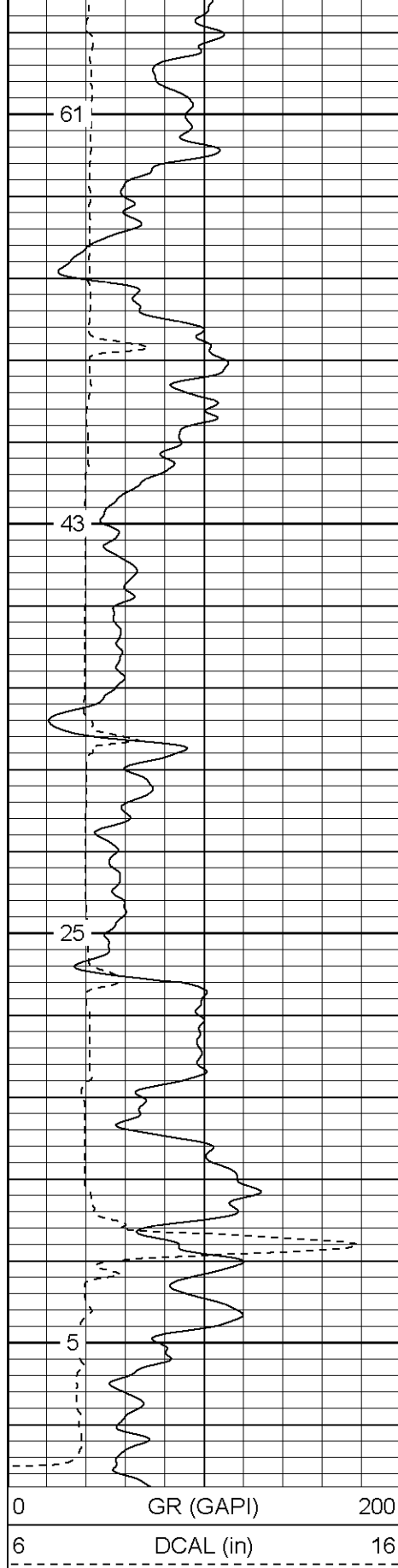
Patterson

Repeat Section

Database File: xtoac1312x.db
 Dataset Pathname: pass3.1
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 Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
			-0.5	RHOC (g/cc)	0.5
			5000	LTEN (lb)	0

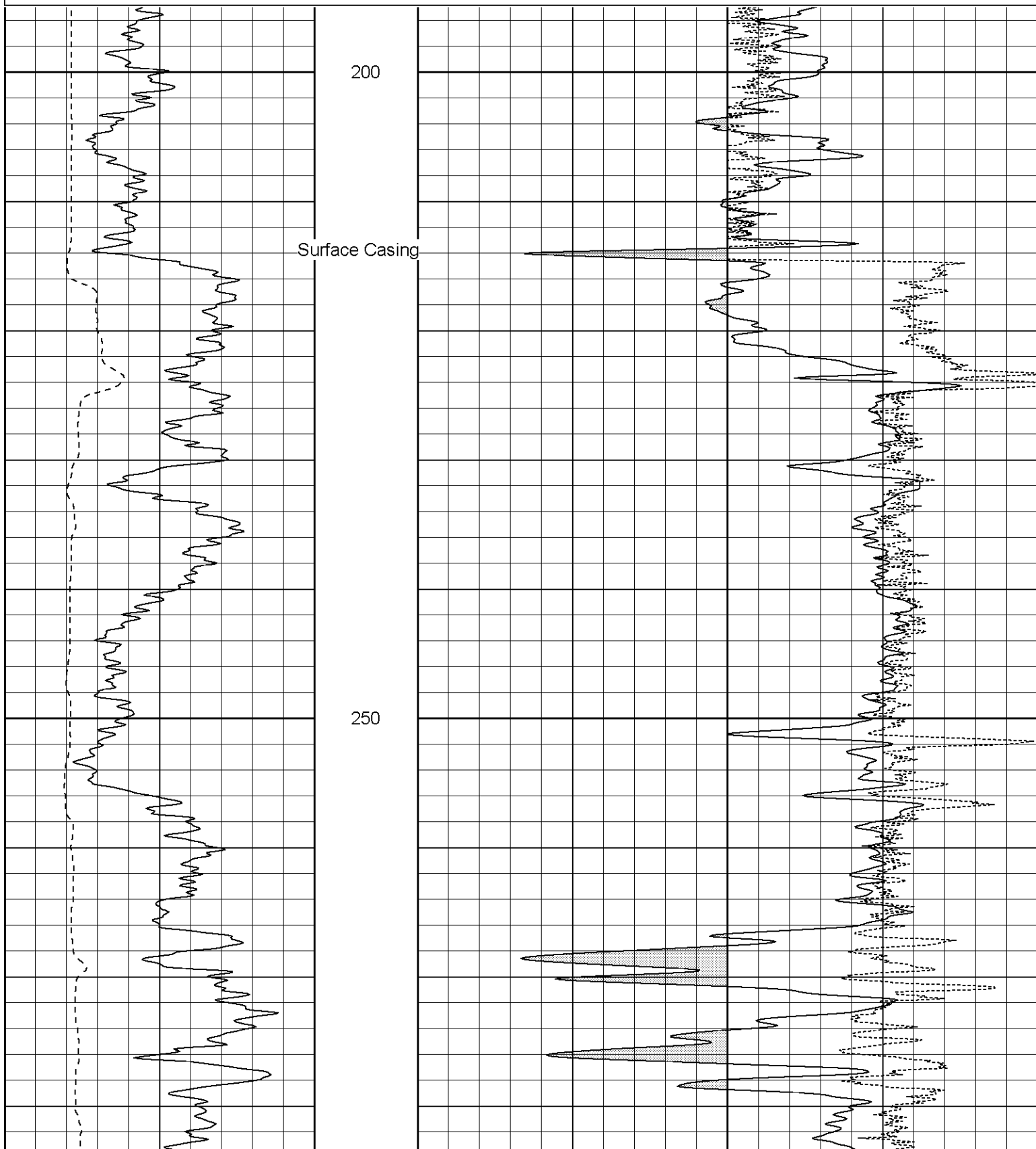


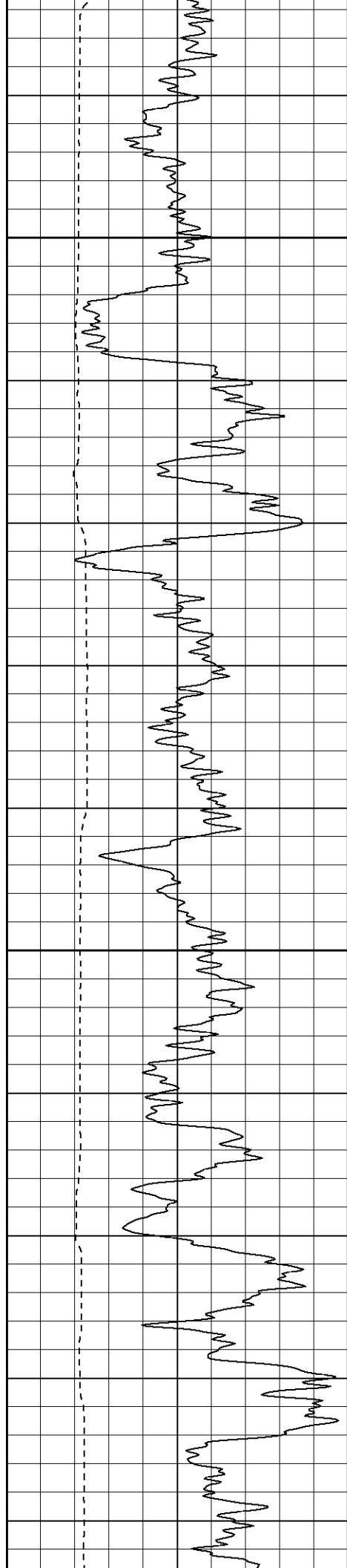


Database File: xtoac1312x.db
 Dataset Pathname: pass4.2
 Presentation Format: cdlhr
 Dataset Creation: Mon Aug 21 07:00:16 2006 by Calc Warrior 7.0 STD Ope
 Charted by: Depth in Feet scaled 1:120

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

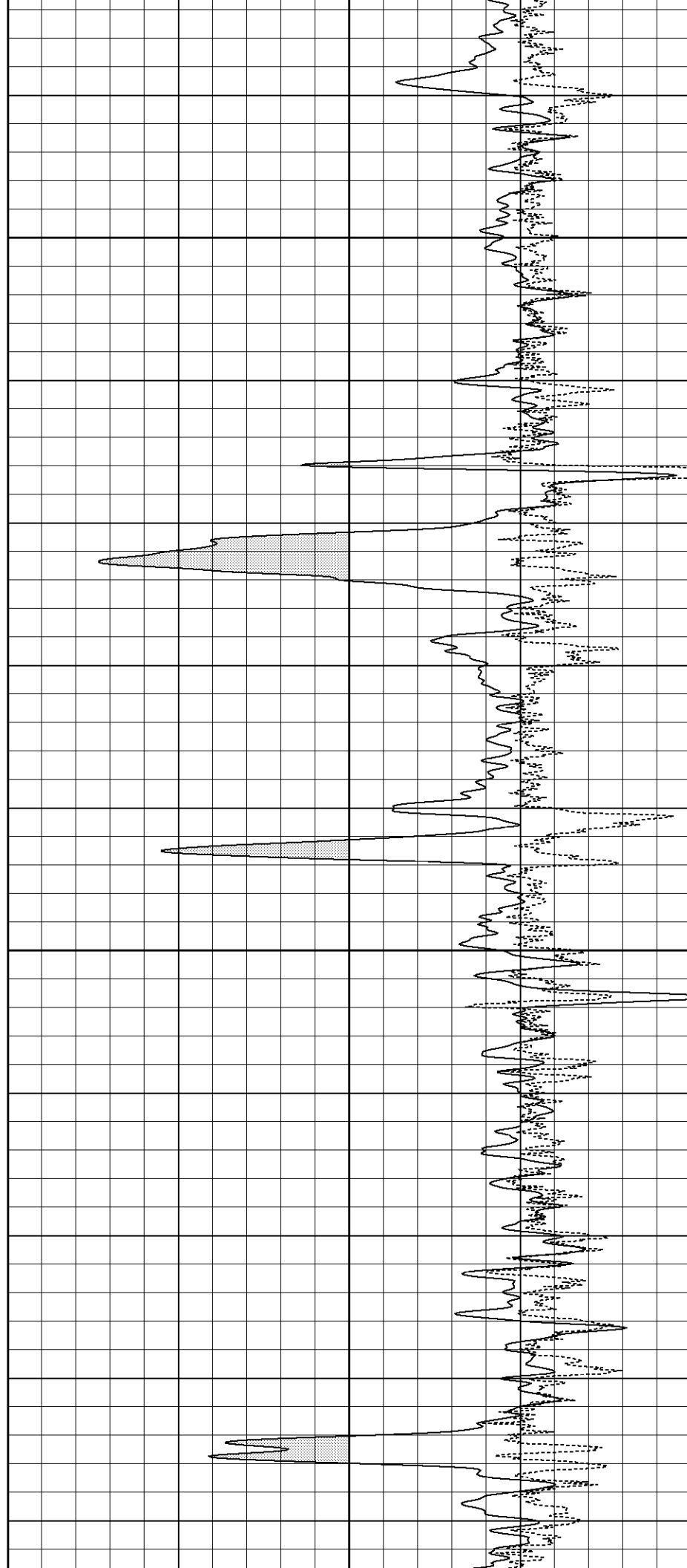
1 RHOB (g/cc) 3
 -0.5 RHOC (g/cc) 0.5

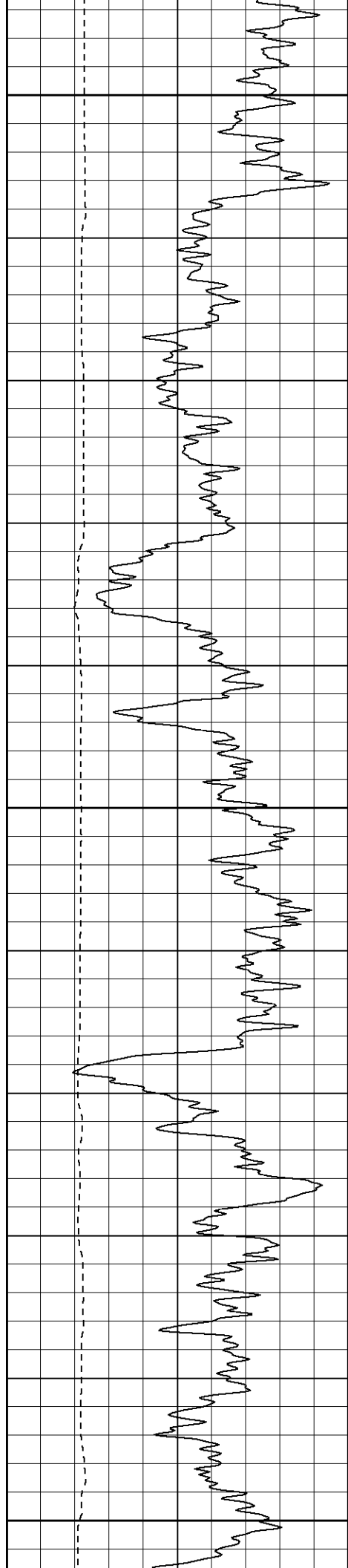




300

350

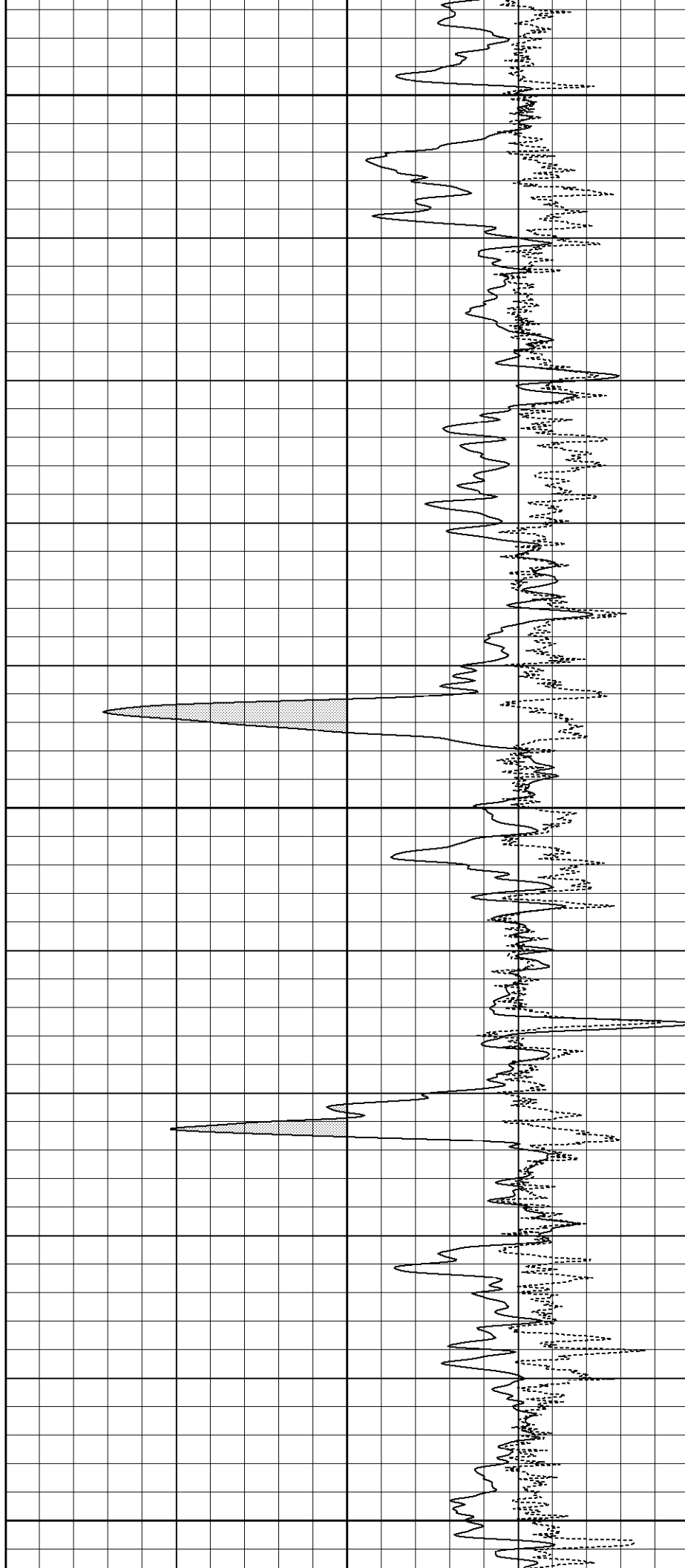


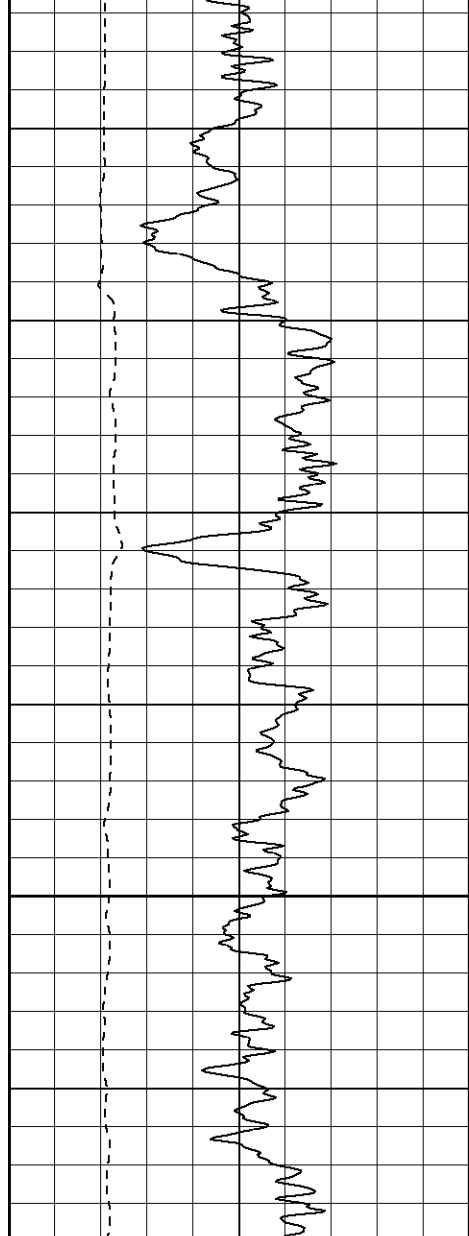


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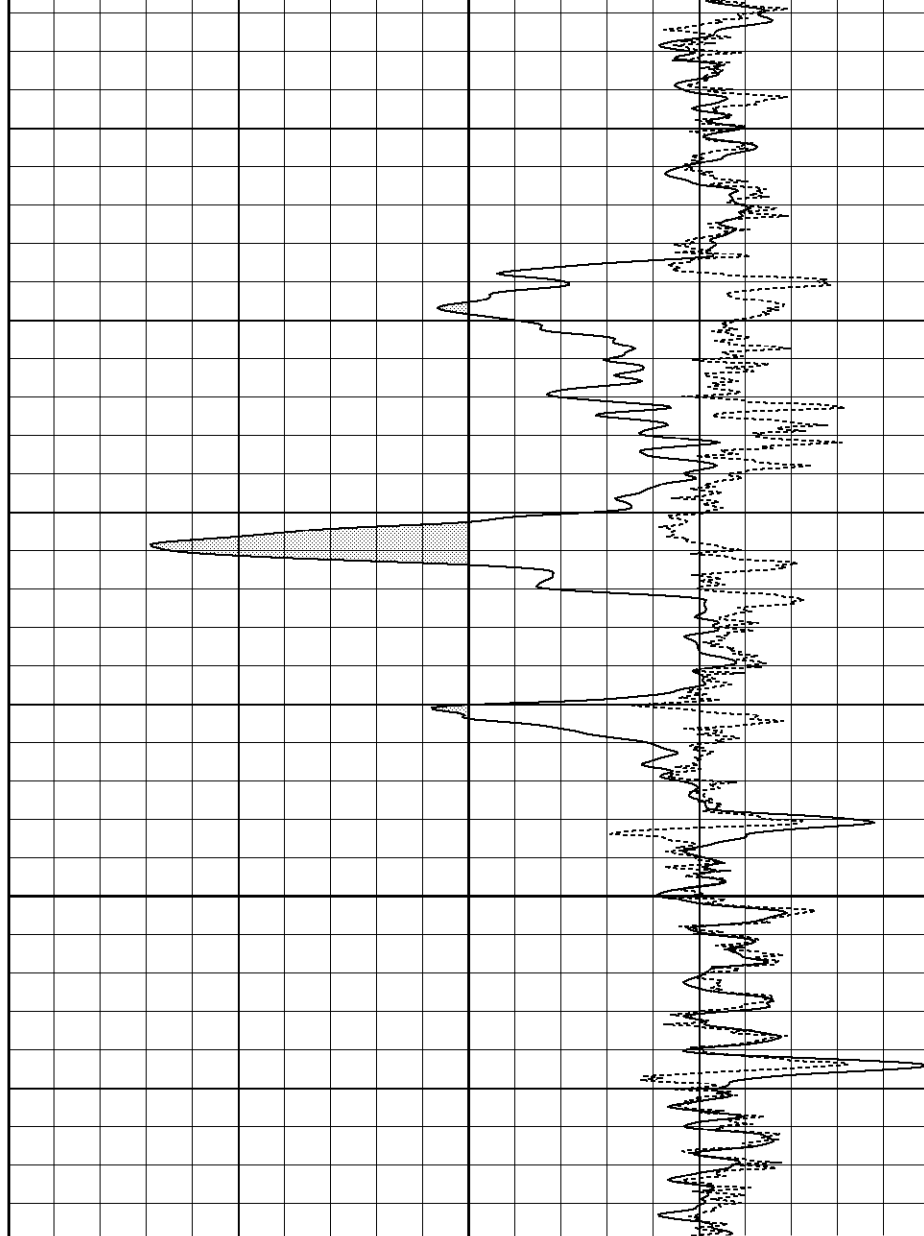
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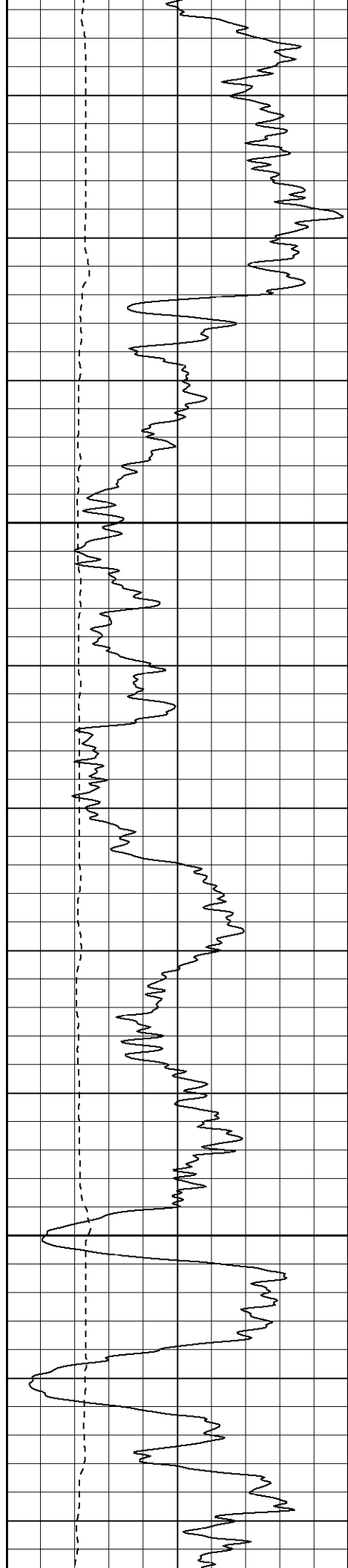
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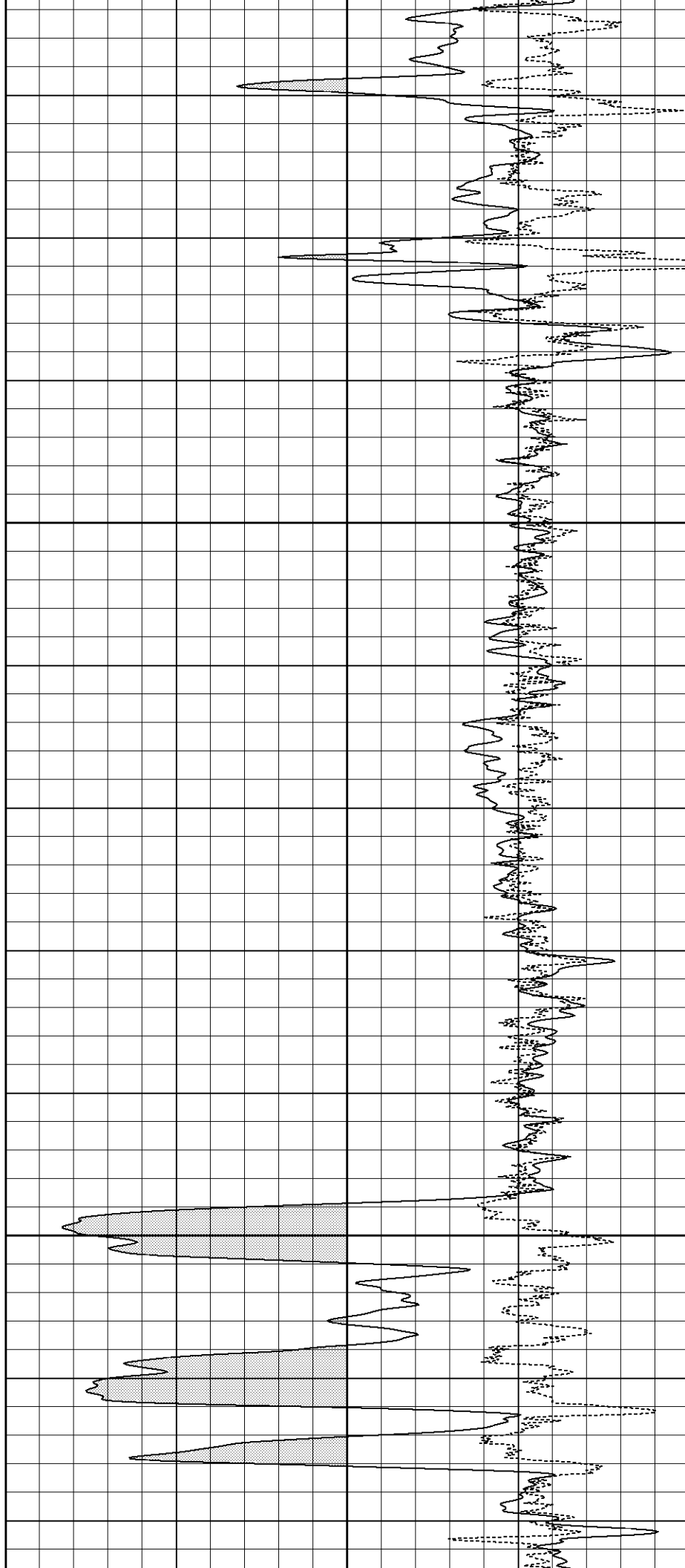
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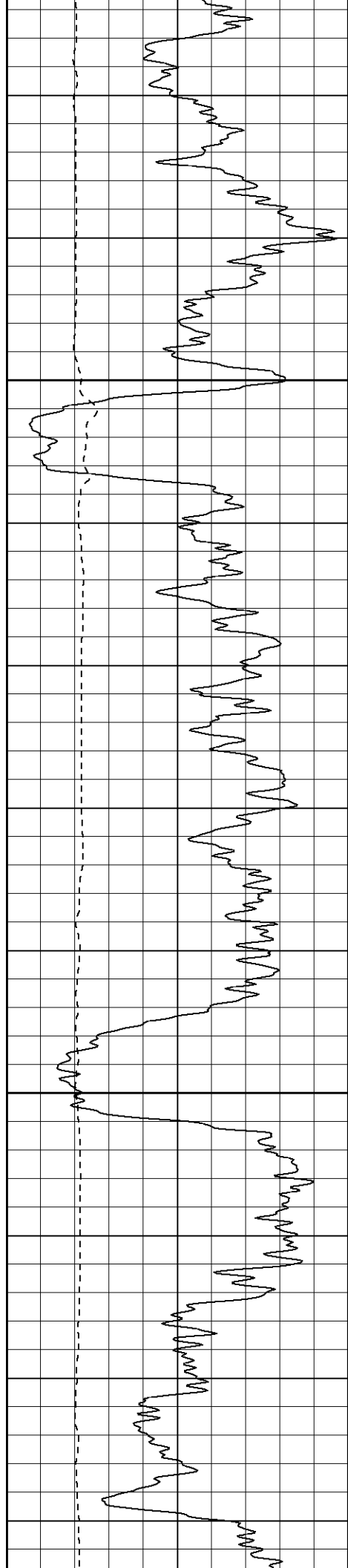




650

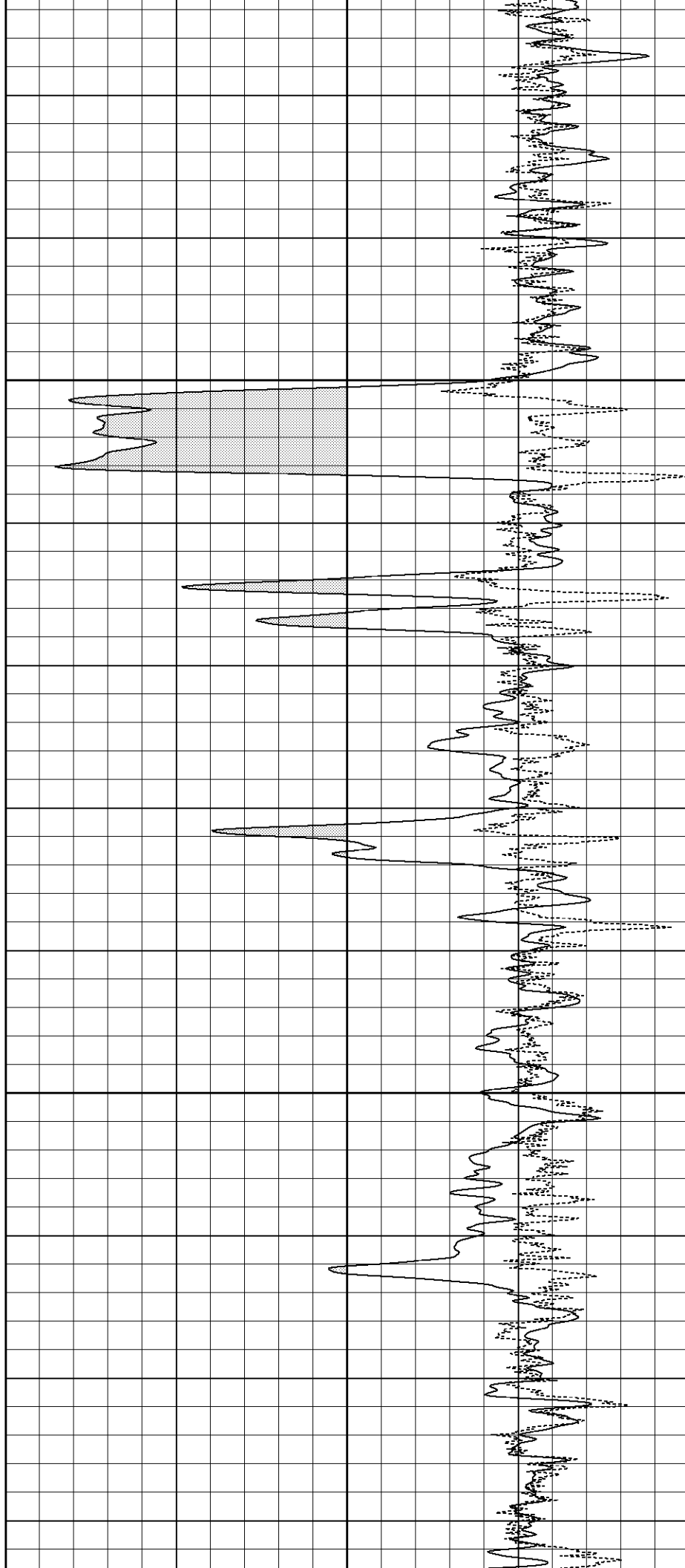
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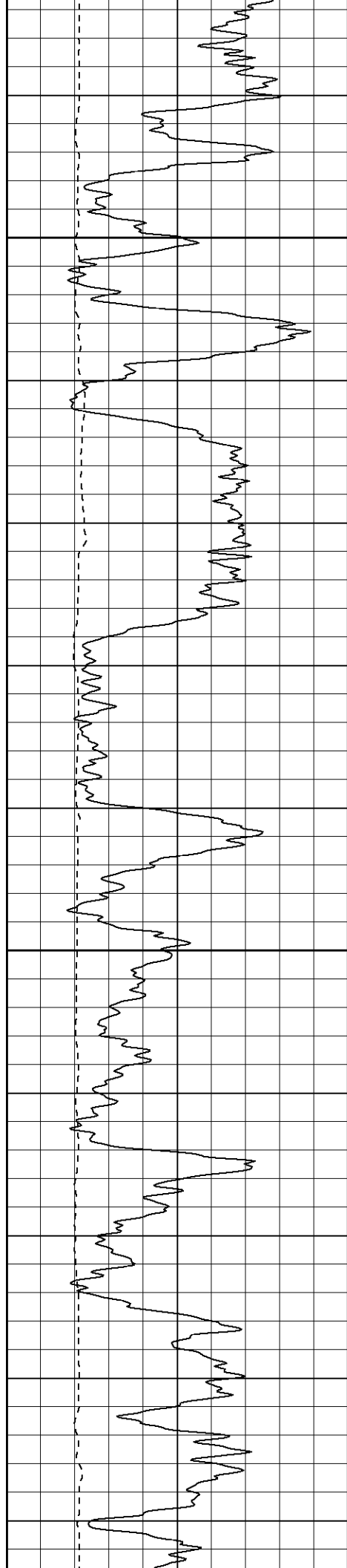




750

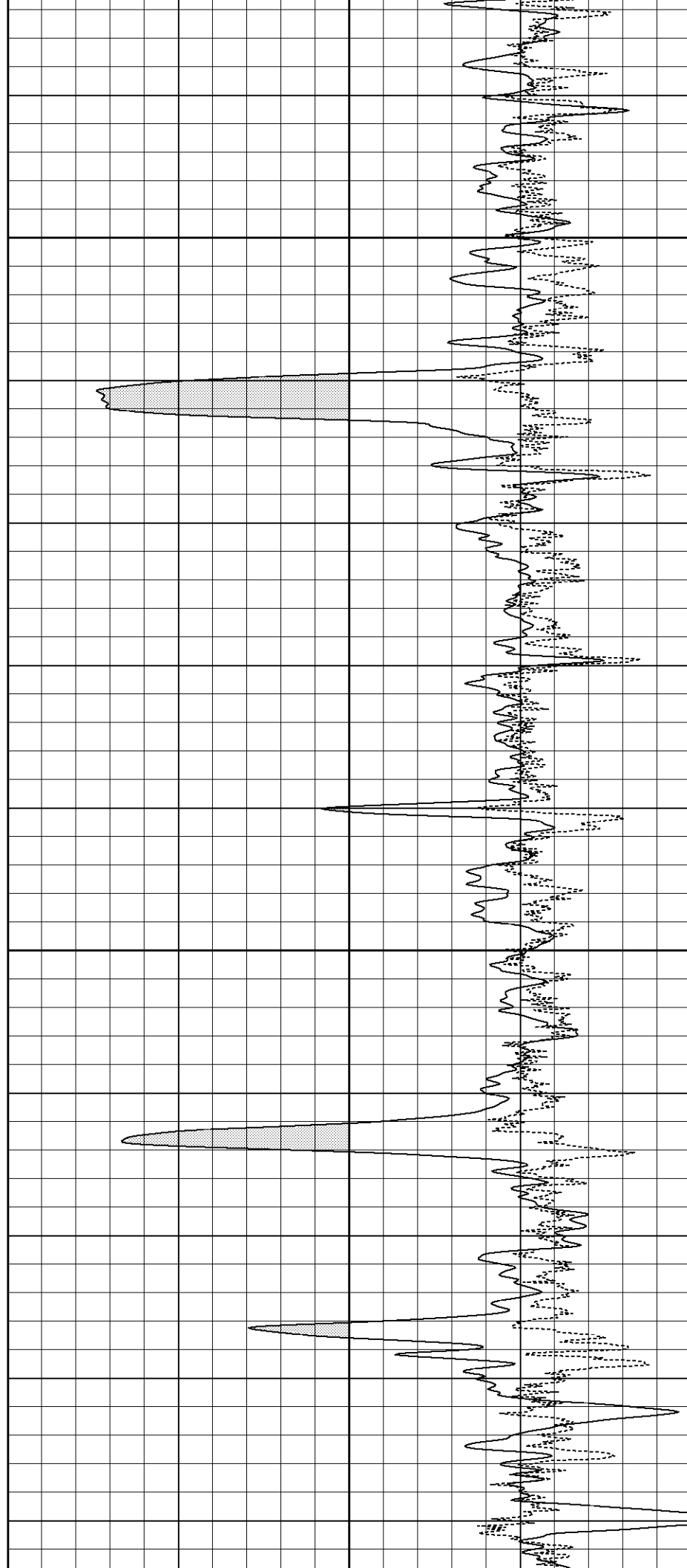
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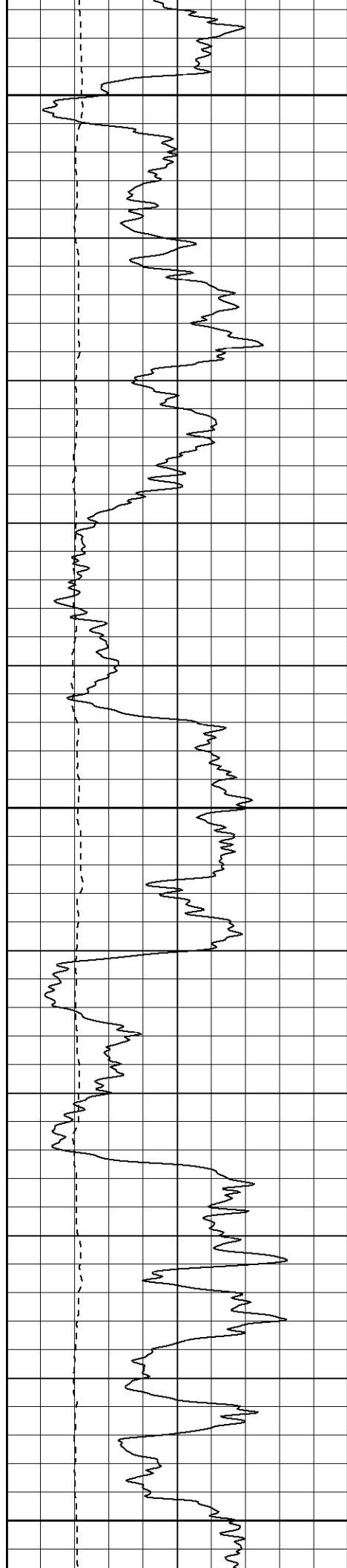




850

900

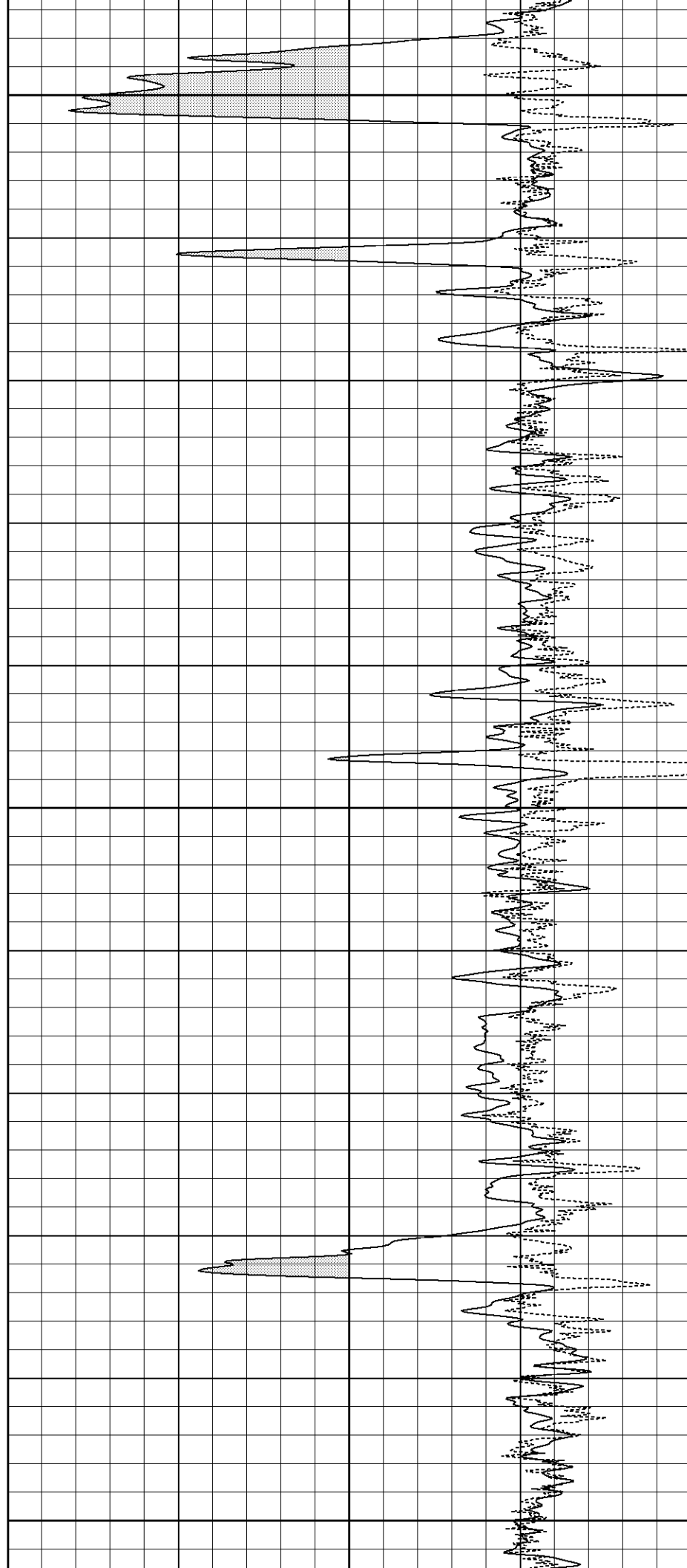


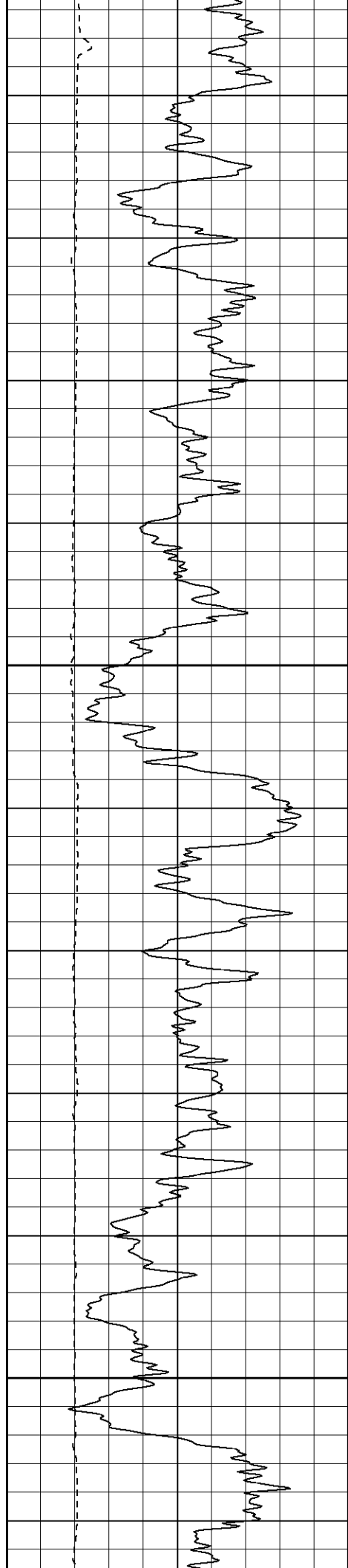


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1000

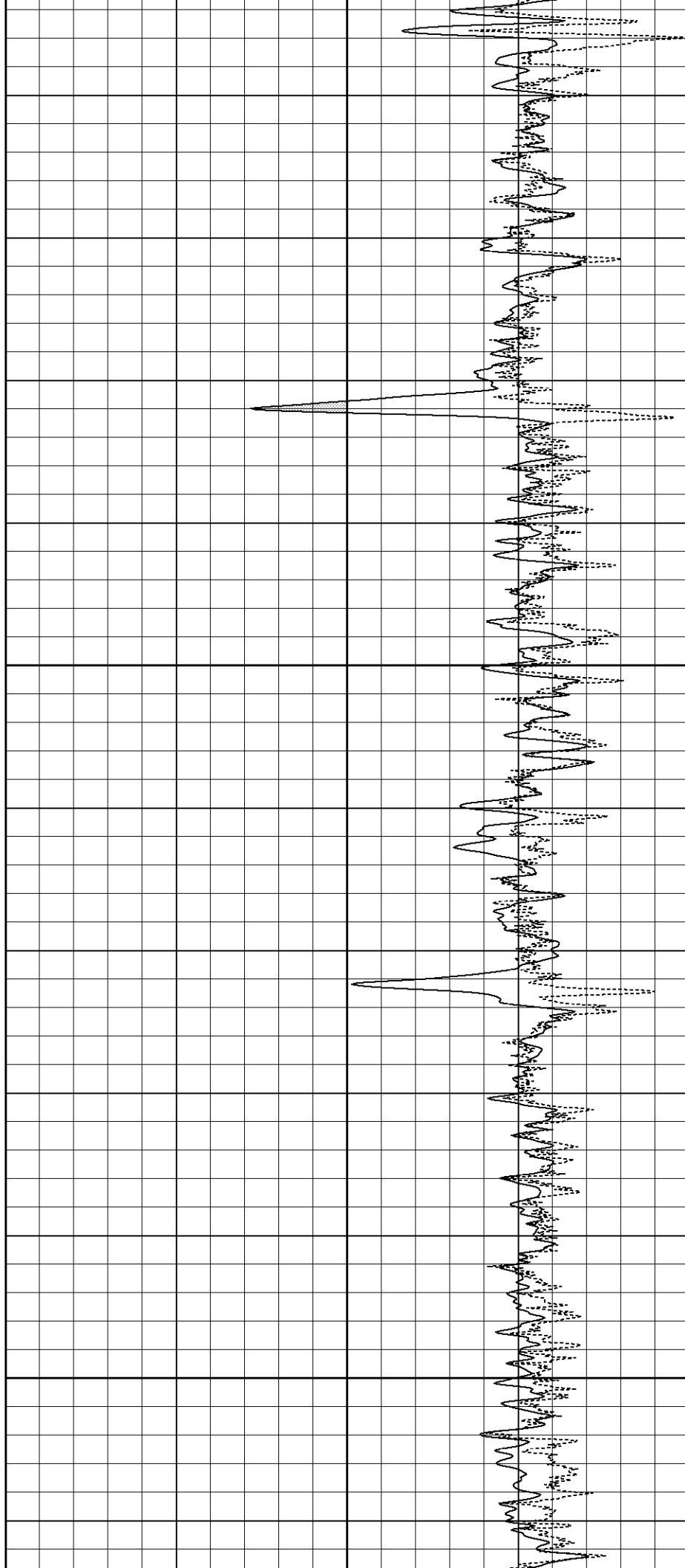
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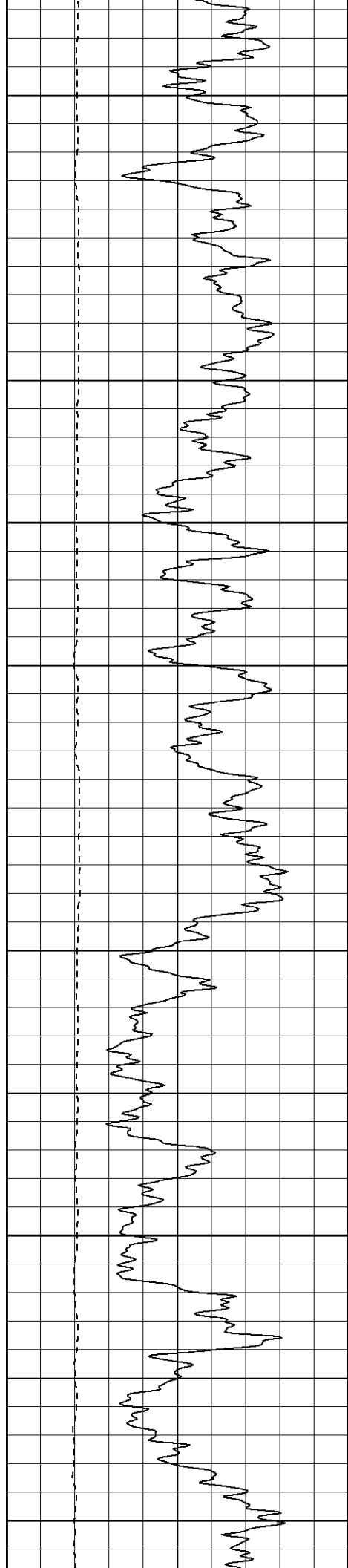




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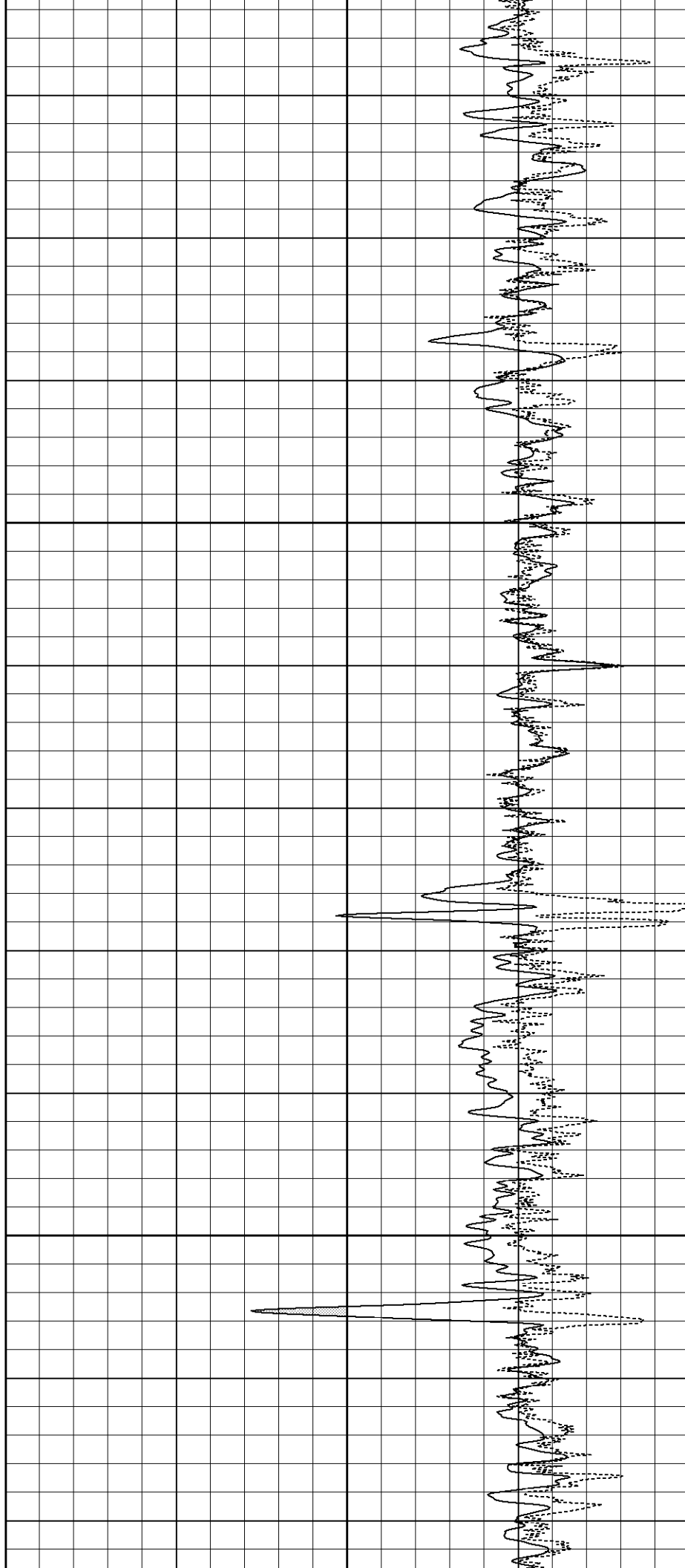
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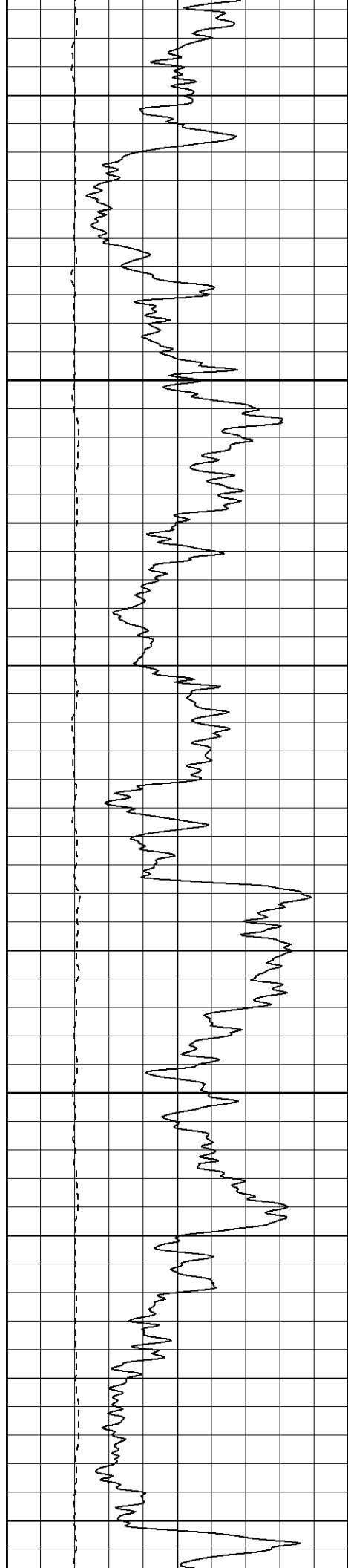




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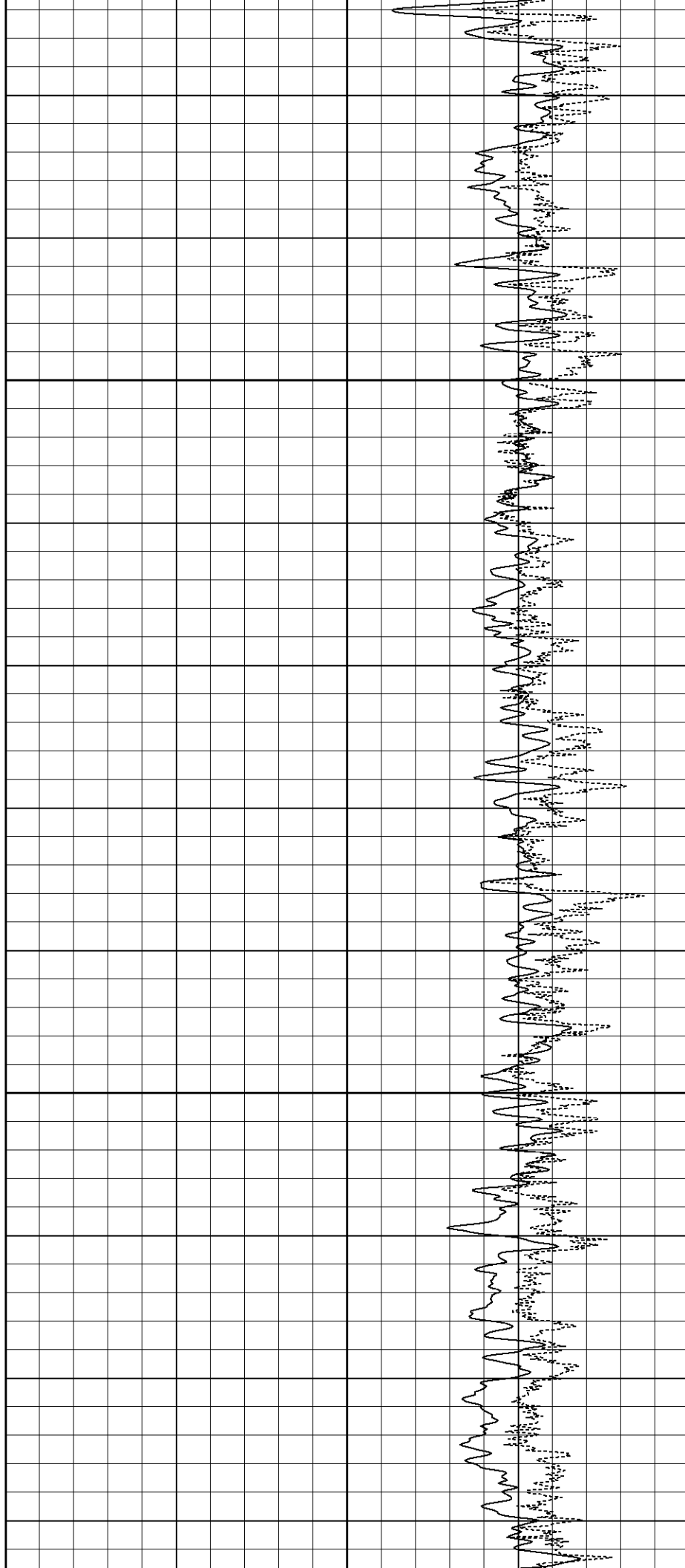
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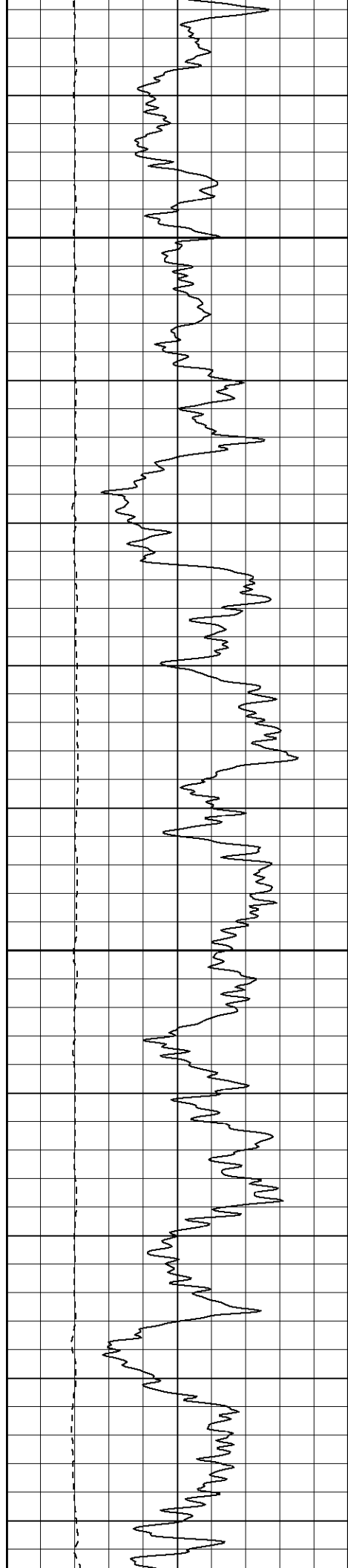




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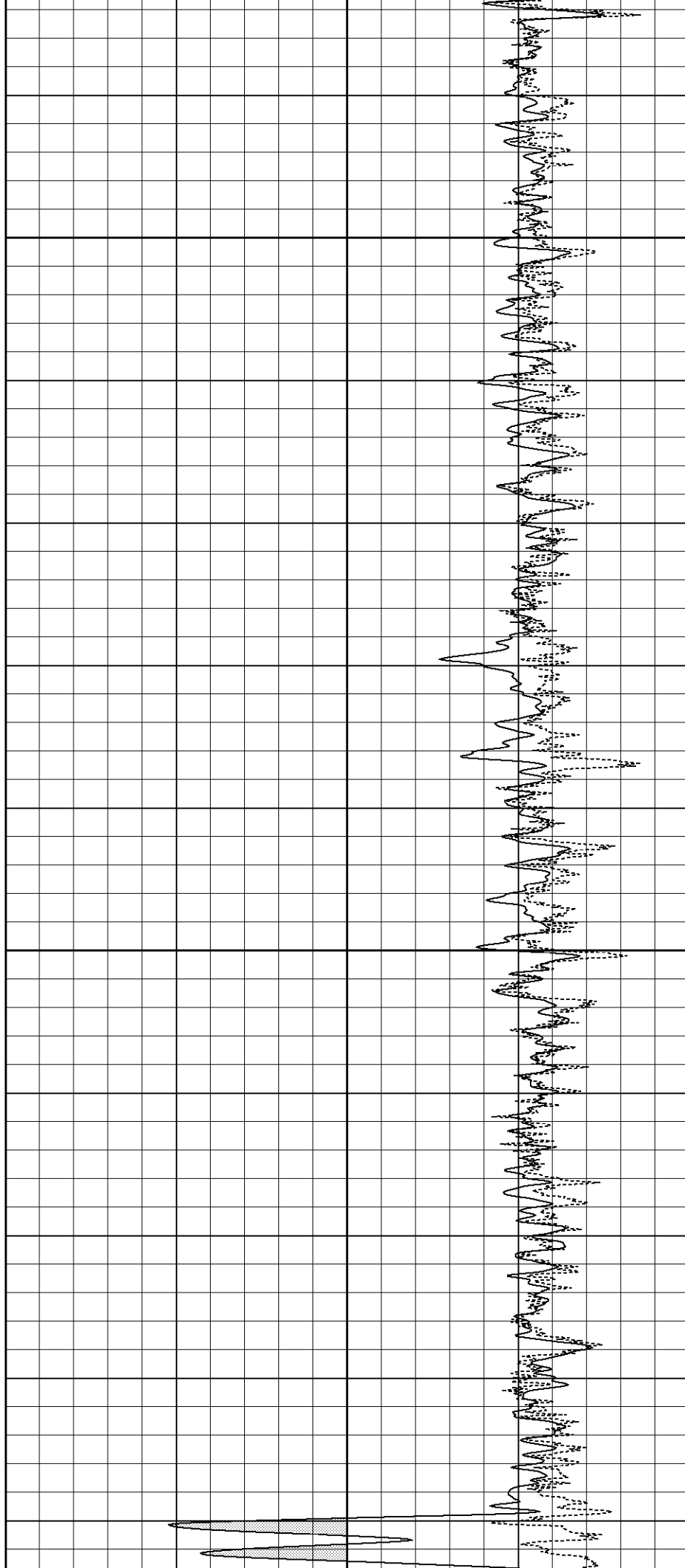
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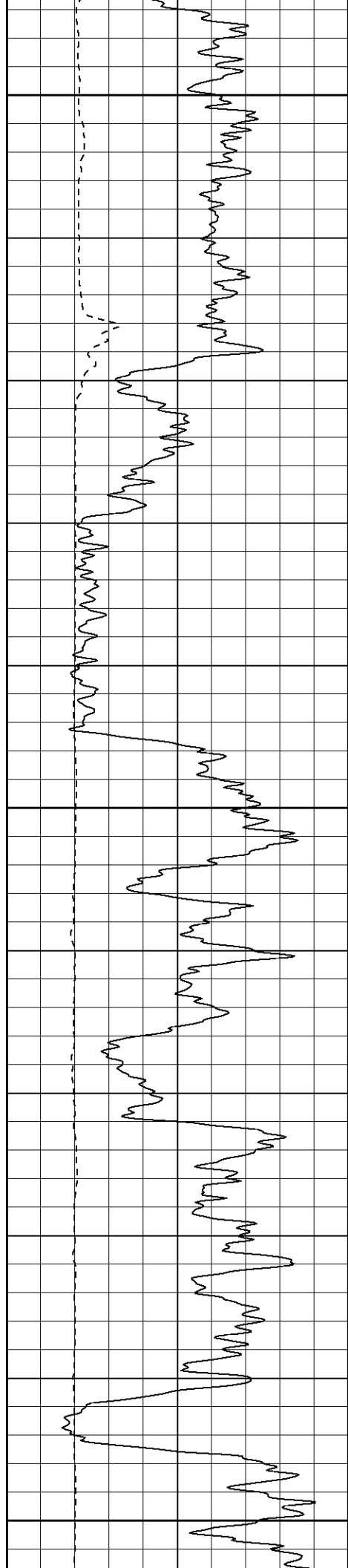




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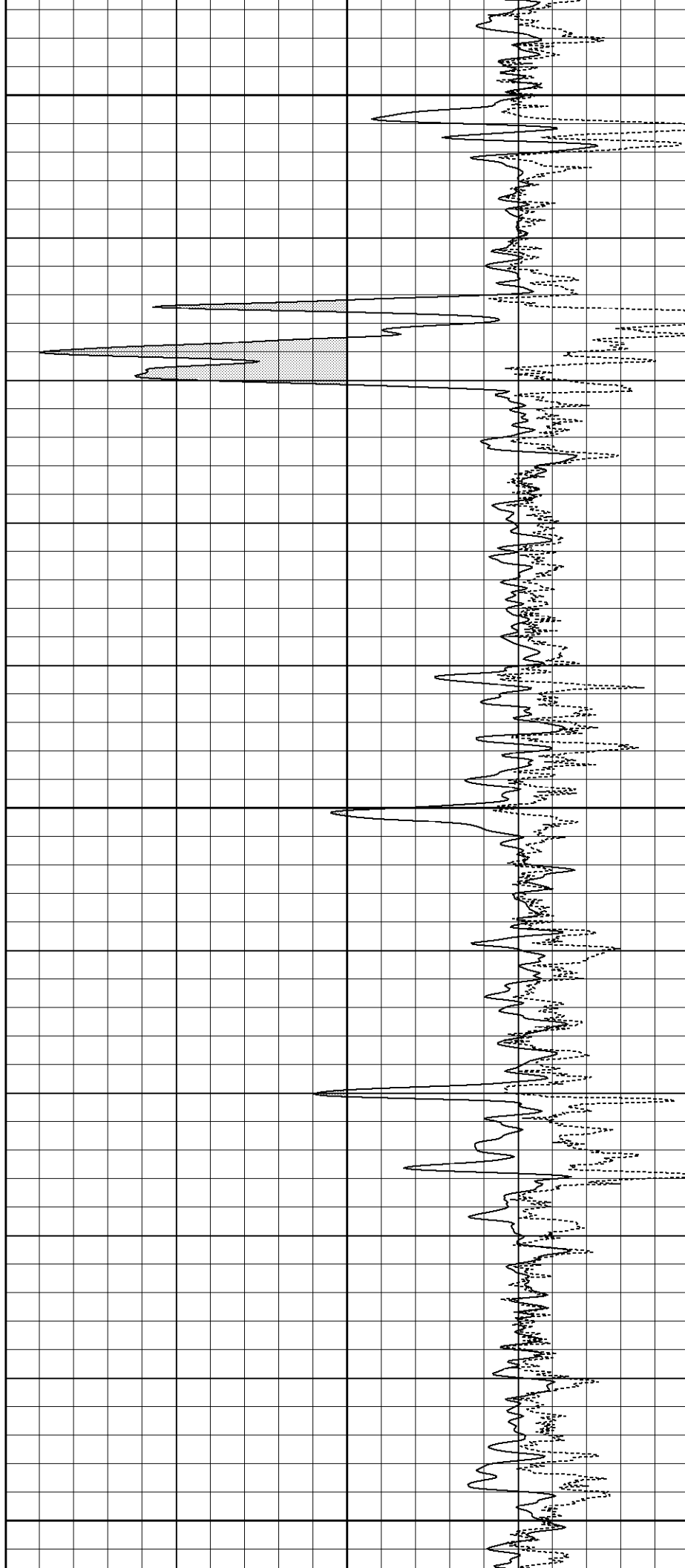


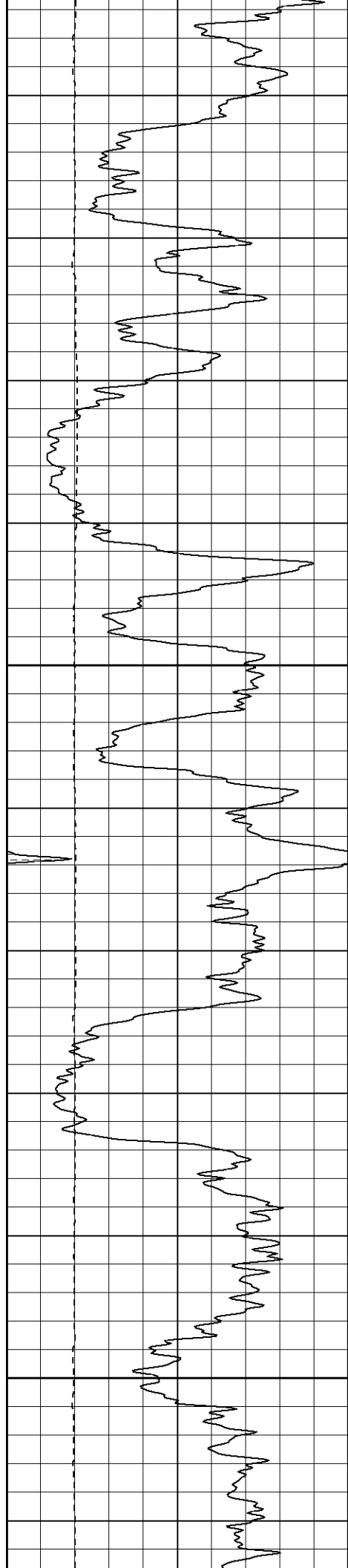


1500

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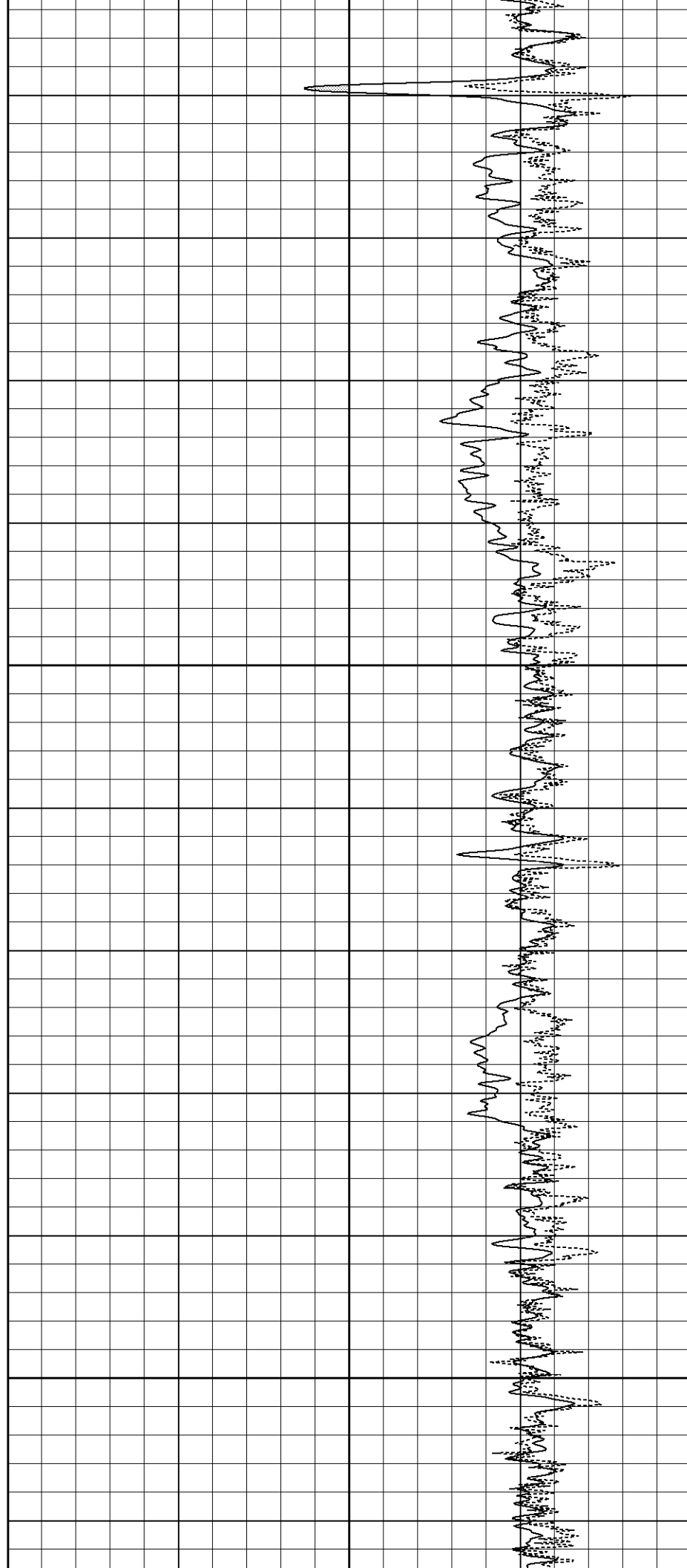
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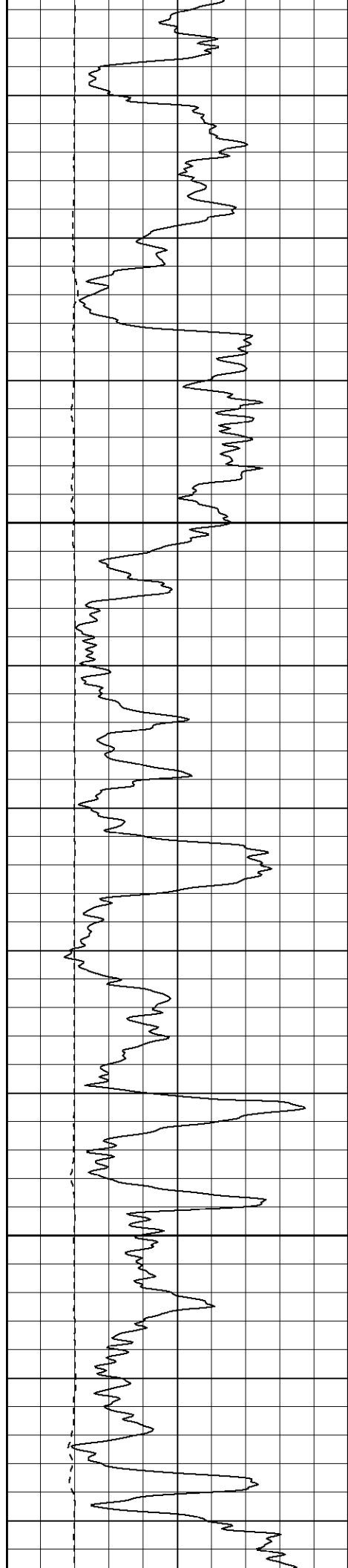




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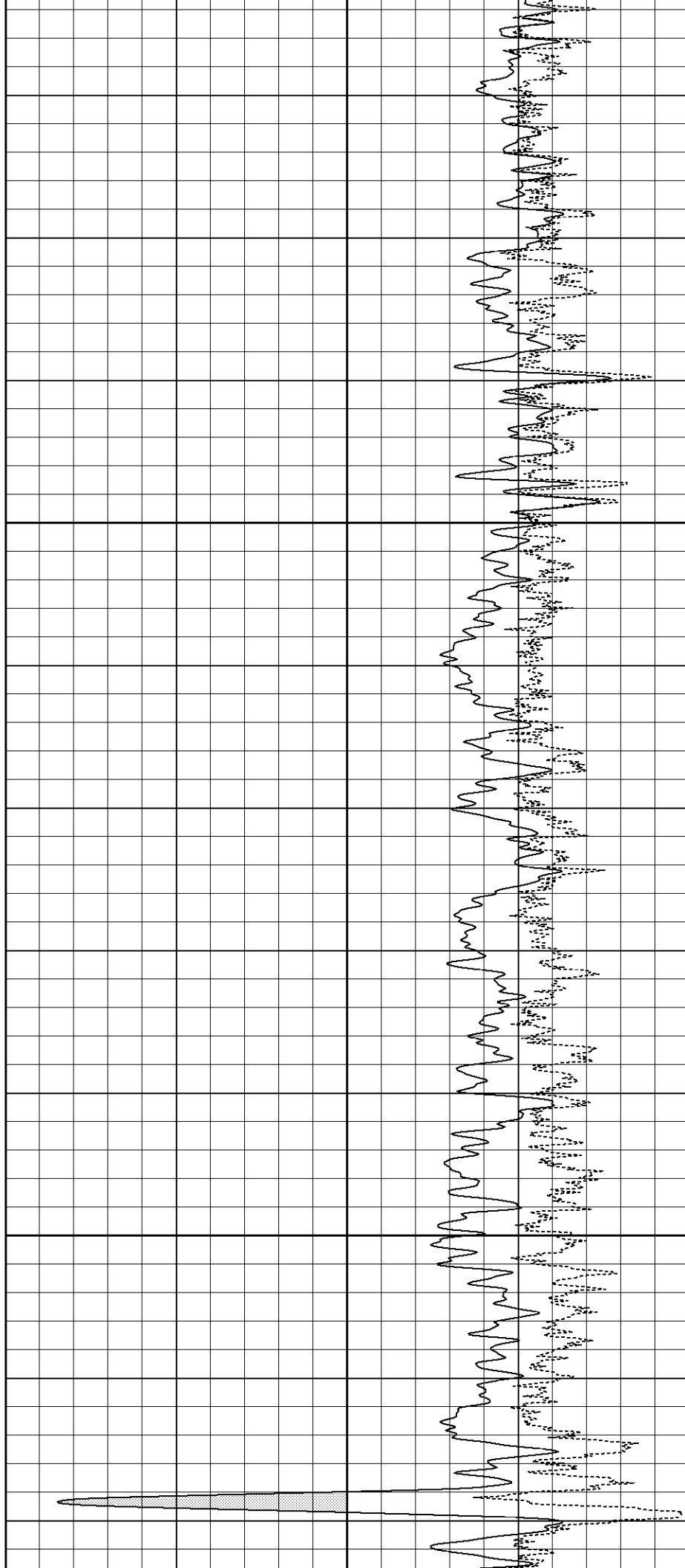
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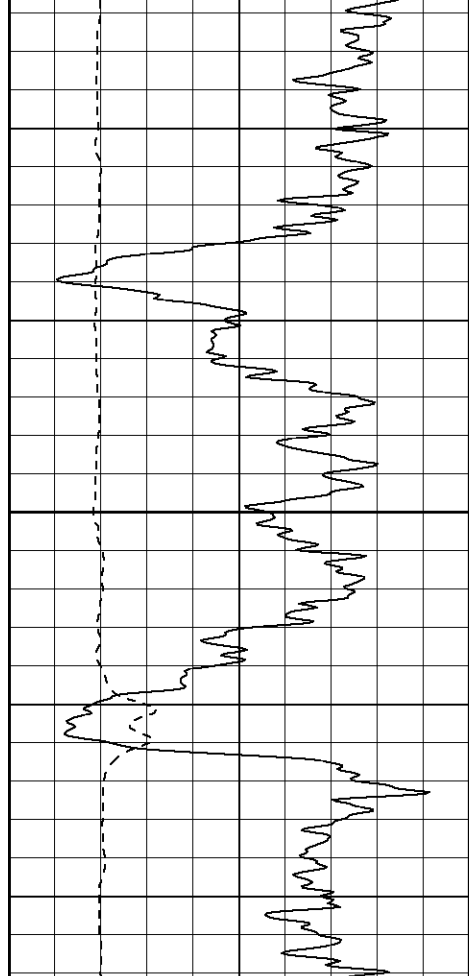




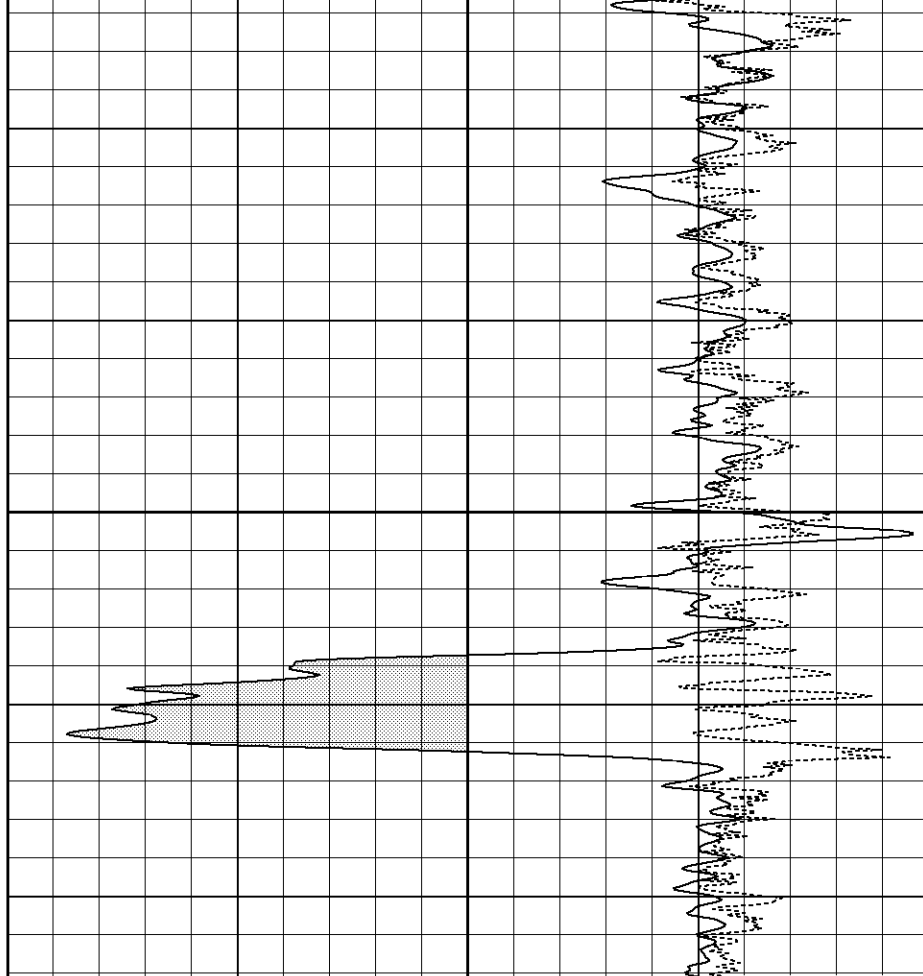
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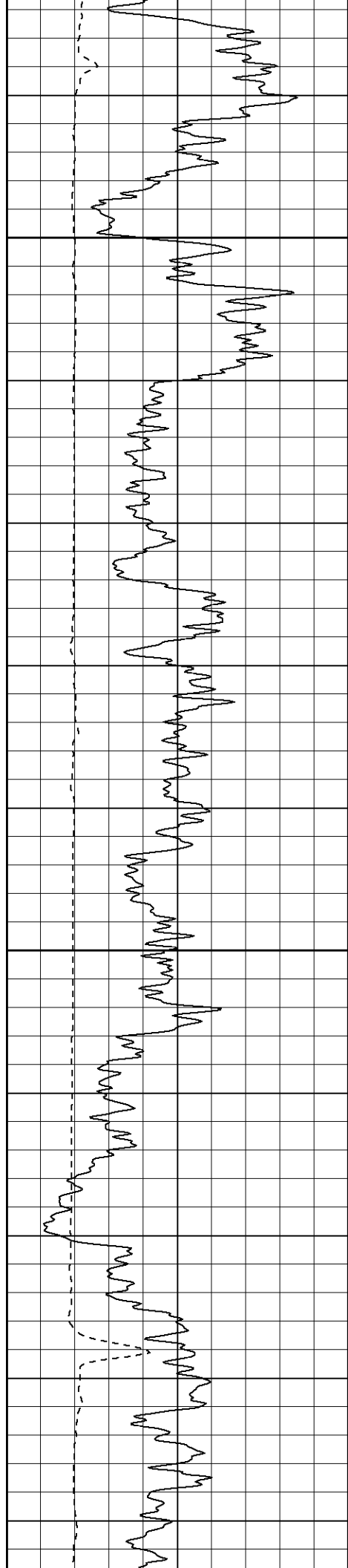
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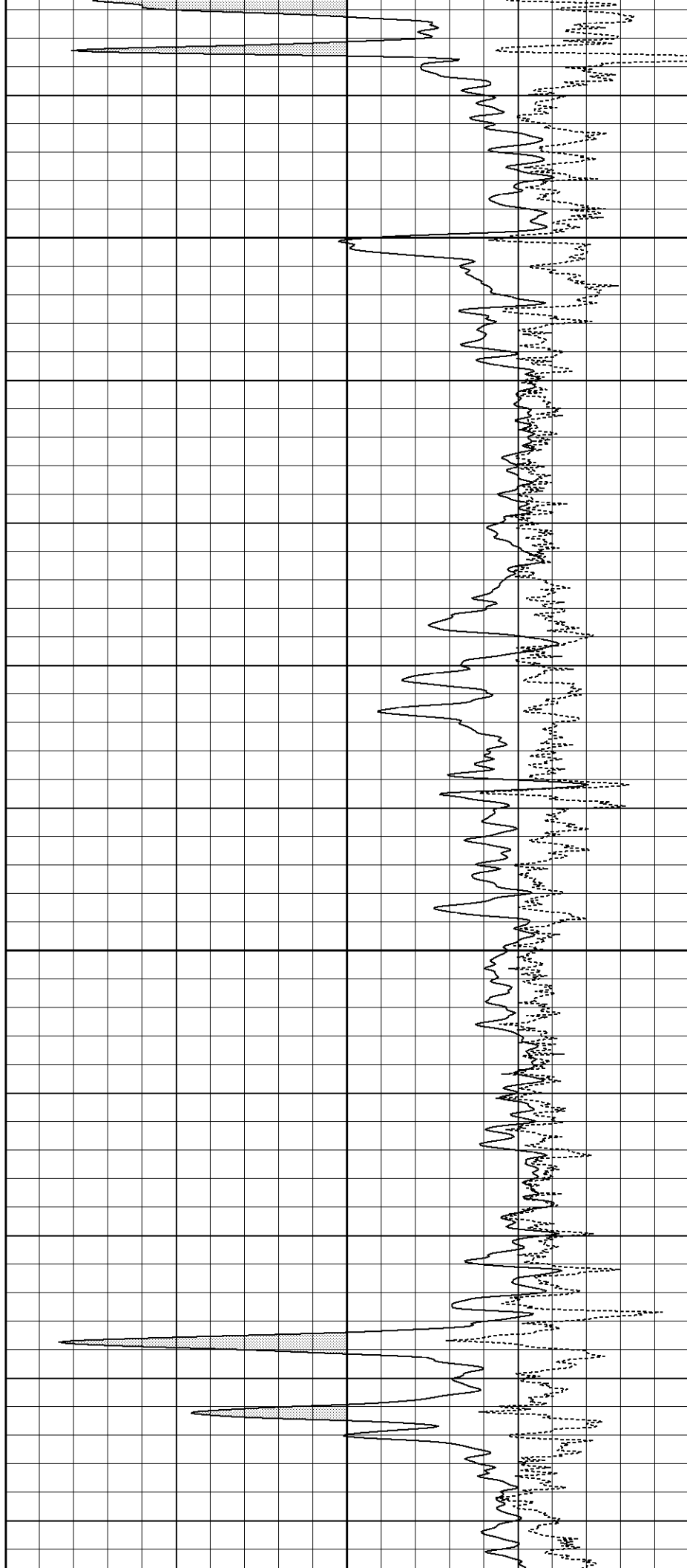
1850





1950

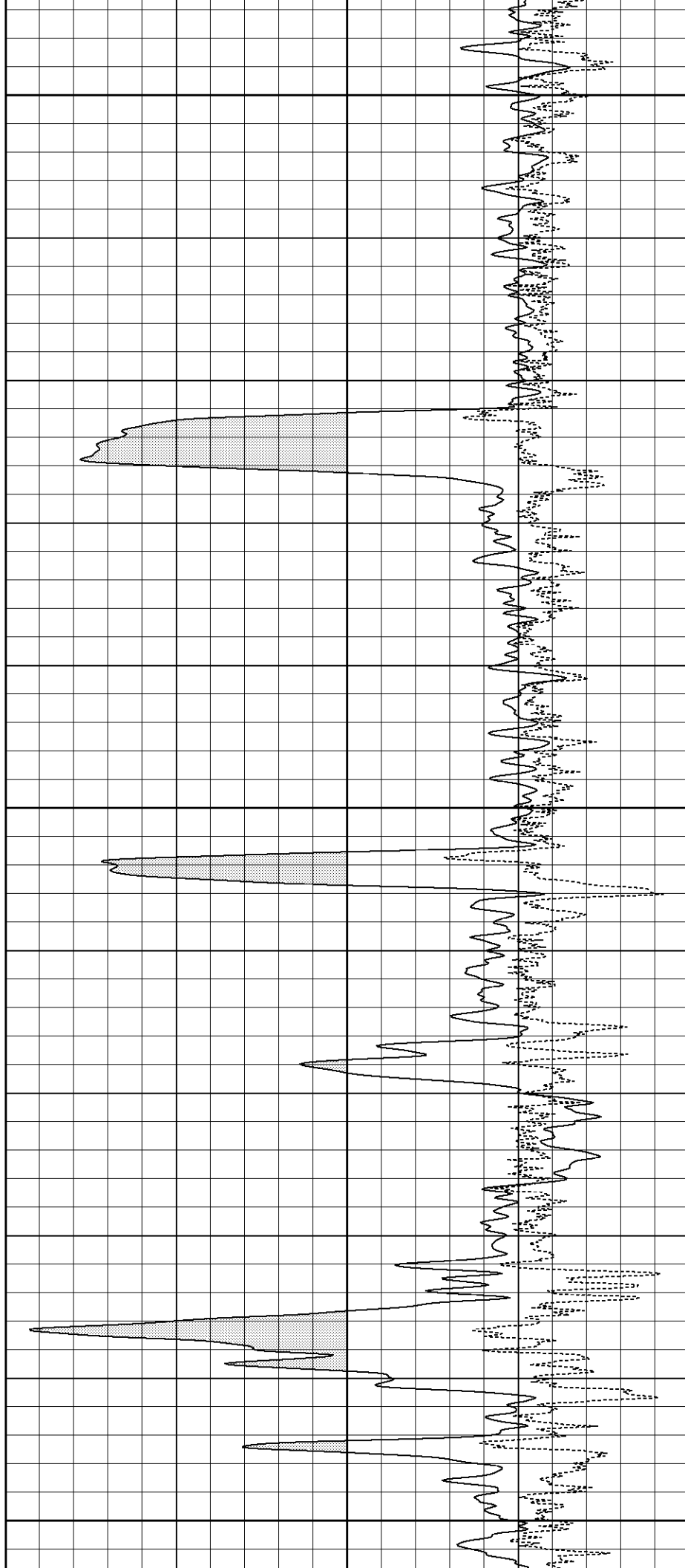
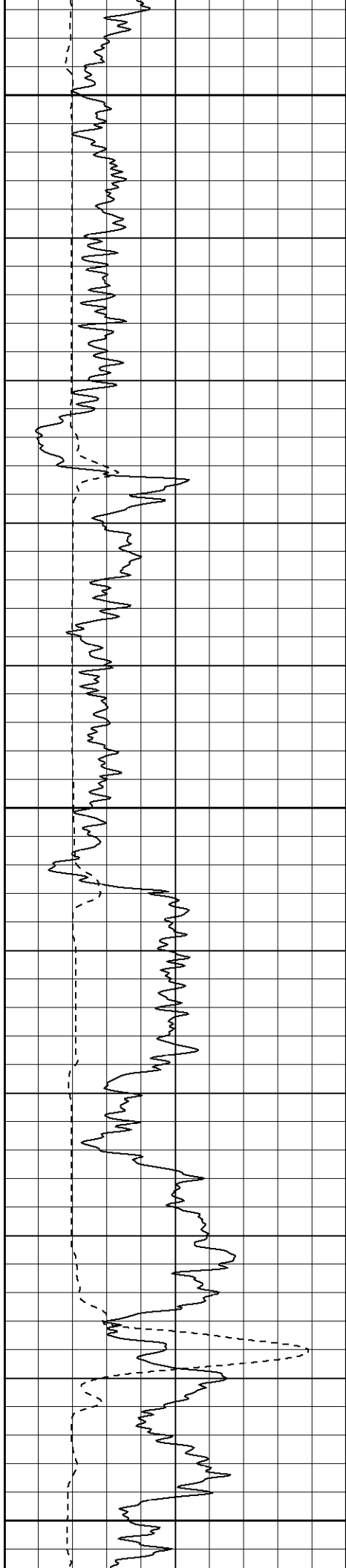
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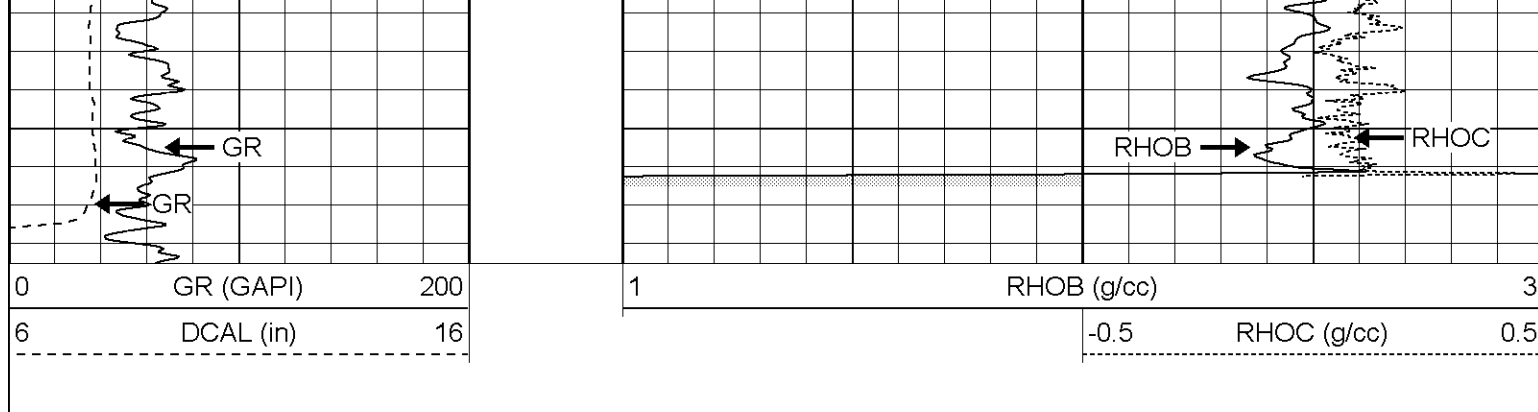


2050

2100

2150





Compensated Density Calibration Report

Serial-Model: 2118-poilex
 Source / Verifier: /
 Master Calibration Performed: Mon Aug 07 13:43:23 2006

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	696.00	681.00	cps
Aluminum	2.590	g/cc	158.00	466.00	cps

Spine Angle = 75.65

Density/Spine Ratio = 0.575

	Size		Reading	
Small Ring	7.85	in	4.50	V
Large Ring	14.00	in	9.25	V

Gamma Ray Calibration Report

Serial Number: 2118
 Tool Model: poilex
 Performed: Mon Aug 07 09:28:39 2006

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 1.0 cps

Sensitivity: 0.7000 GAPI/cps


Neutron Calibration Report

Serial Number: 5138
 Tool Model: G
 Performed: Mon Aug 07 11:37:44 2006

Calibrator Value: 1 NAPI

Calibrator Reading: 1 cps

Sensitivity: 1 NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
NEU	12.86		NEU-G (5138) Gearhart Epithermal	5.75	3.50	85.00

GR	8.18		GR-poilex (2118)	2.60	4.00	40.00
LSD	2.52		CDL-poilex (2118)	6.19	4.00	201.00
DCAL	2.21					
SSD	1.98					
<p>Dataset: /field/well/run1/_plots_/_jobs_/cdl</p> <p>Total Length: 14.54 ft</p> <p>Total Weight: 326.00 lb</p> <p>O.D. 4.00 in</p>						