

Patterson

**COMPENSATED DENSITY
NEUTRON
LOG**

Company	Pioneer Natural Resources	Company	Pioneer Natural Resources
Well	Lorencito 12-22-34-66	Well	Lorencito 12-22-34-66
Field	Purgatoire River	Field	Purgatoire River
County	Las Animas	County	Las Animas
State	Colorado	State	Colorado
Location:	API # : 05 071 08513 00 1830' FSL & 556' FWL	Other Services	SIL
Permanent Datum	SEC 22 TWP 34S RGE 66W	Elevation	
Log Measured From	Ground Level	K.B. 7495'	
Drilling Measured From	Kelly Bushing 4' Above G.L.	D.F. -----	
	Kelly Bushing	G.L. 7491'	
Date	10-10-05		
Run Number	Two		
Depth Driller	2025'		
Depth Logger	2032'		
Bottom Logged Interval	2030'		
Top Log Interval	Surface		
Casing Driller	8 5/8" @ 264'		
Casing Logger	264'		
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	10:45 A.M.		
Time Logger on Bottom	12:35 P.M.		
Maximum Recorded Temperature	///		
Equipment Number	T720		
Location	Trinidad		
Recorded By	M. Norton		
Witnessed By	Mr. Neal Hawthorne		

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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

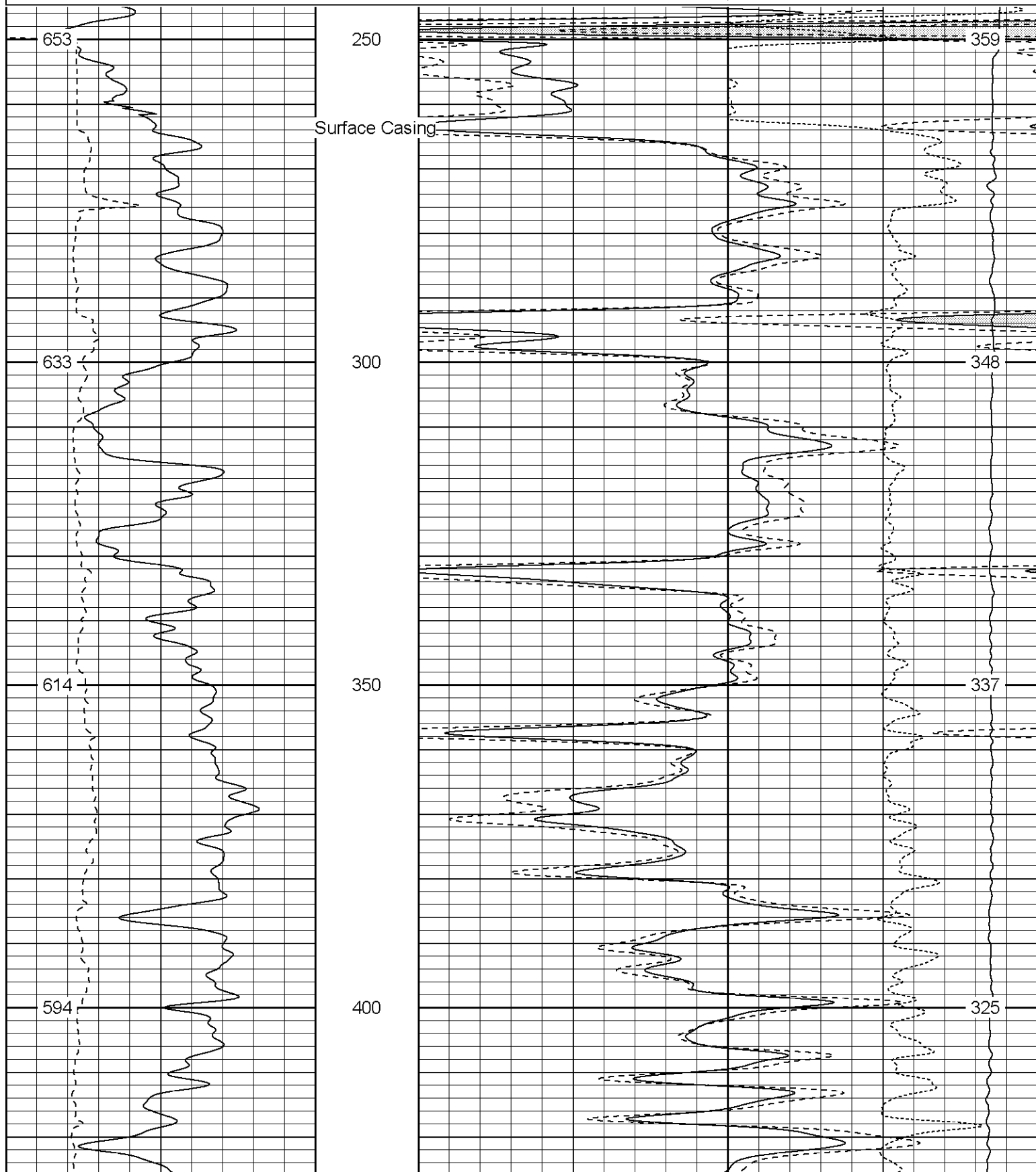
Neutron Density Porosity Presented On Sandstone Matrix.
ABHV Calculated For 5 1/2" Casing.
Well Directions:
Up Lorencito Left at Windmill Just Past Compressor, First left Up Hill,
Drive Thru The Lorencito 8-21, First Left To Location.

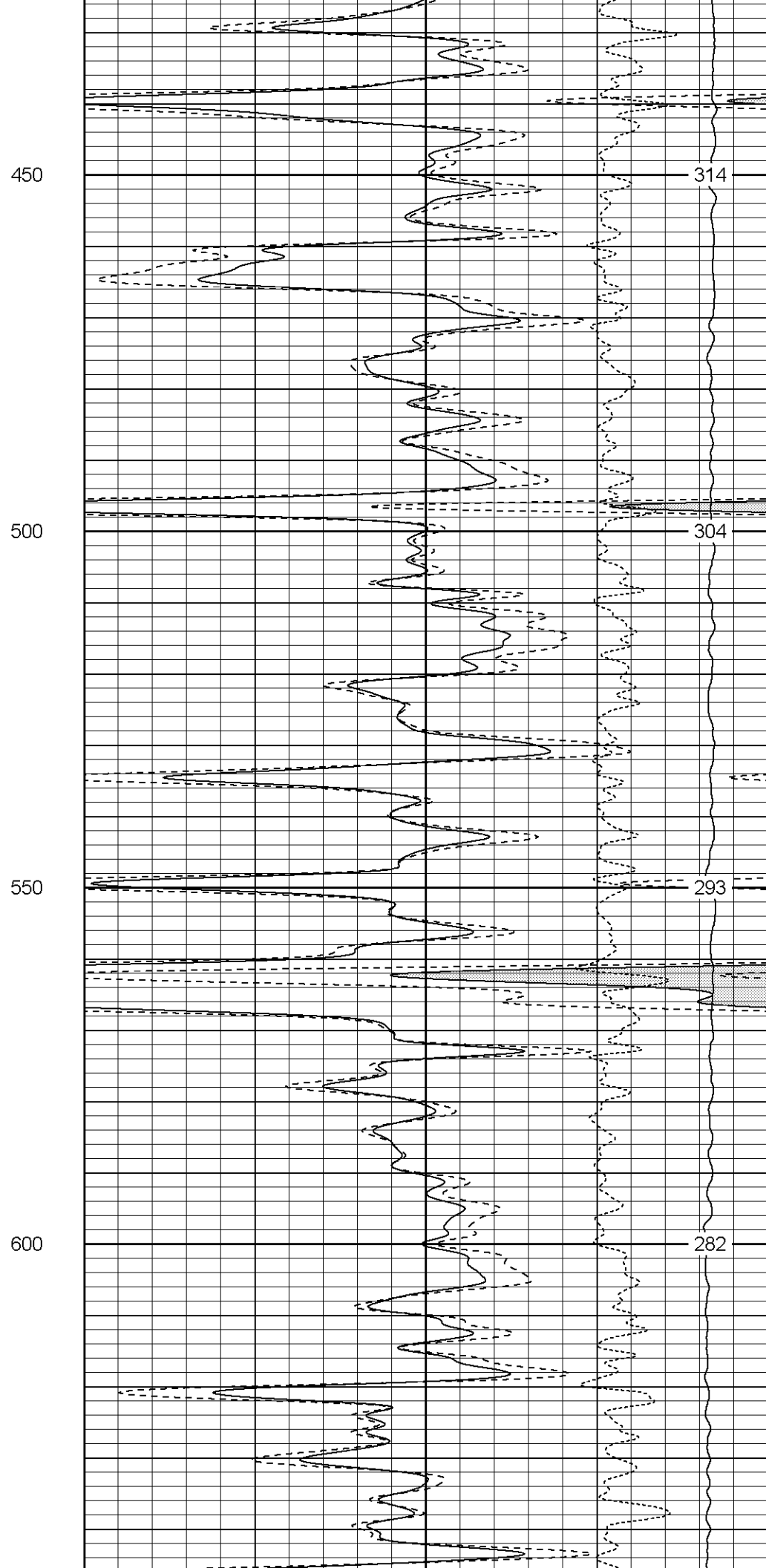
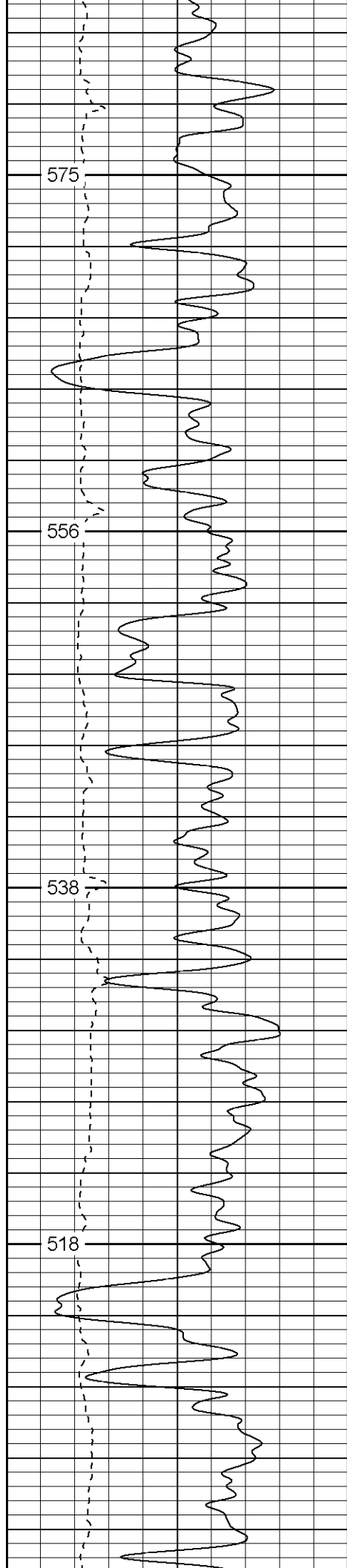
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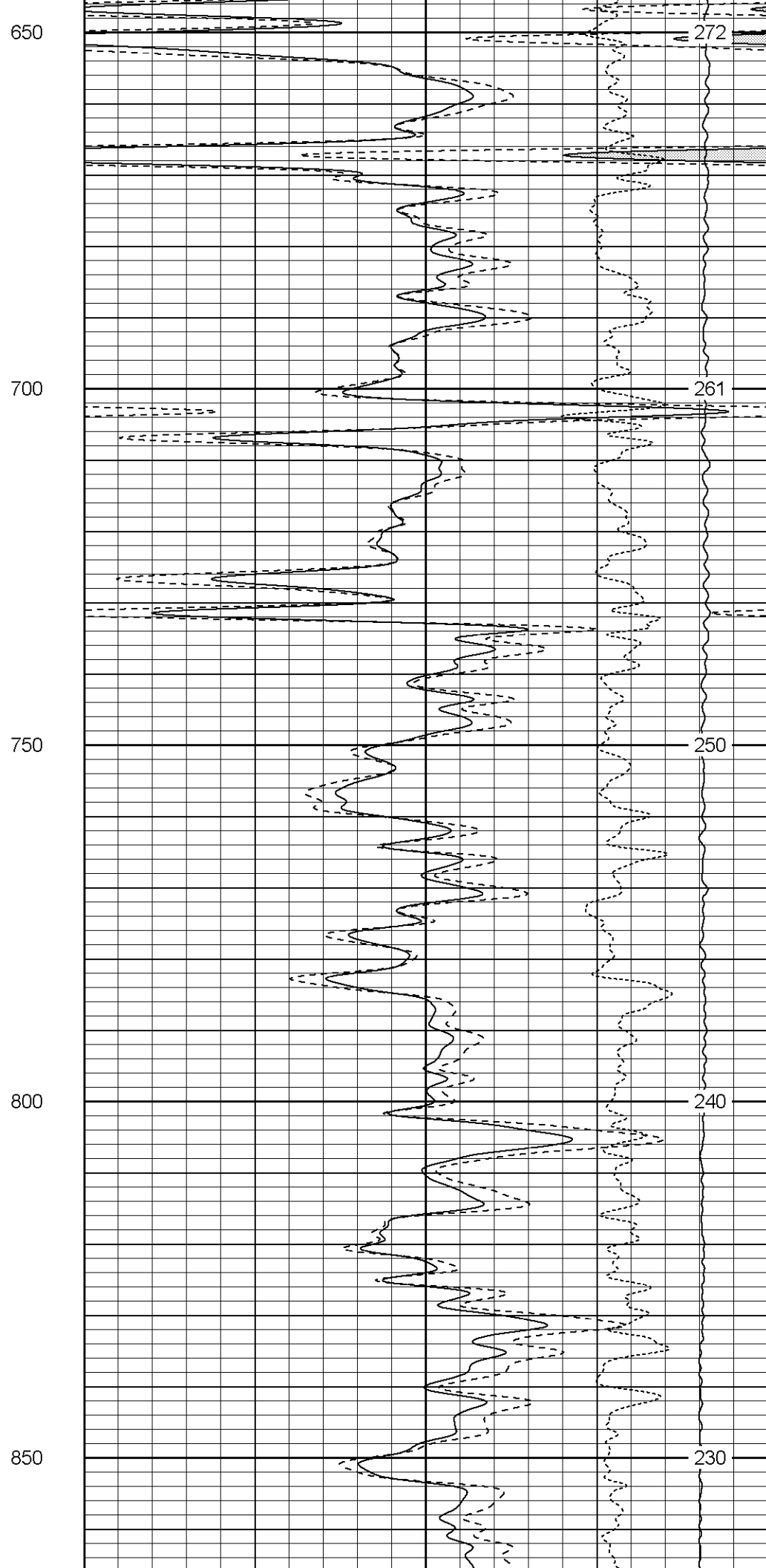
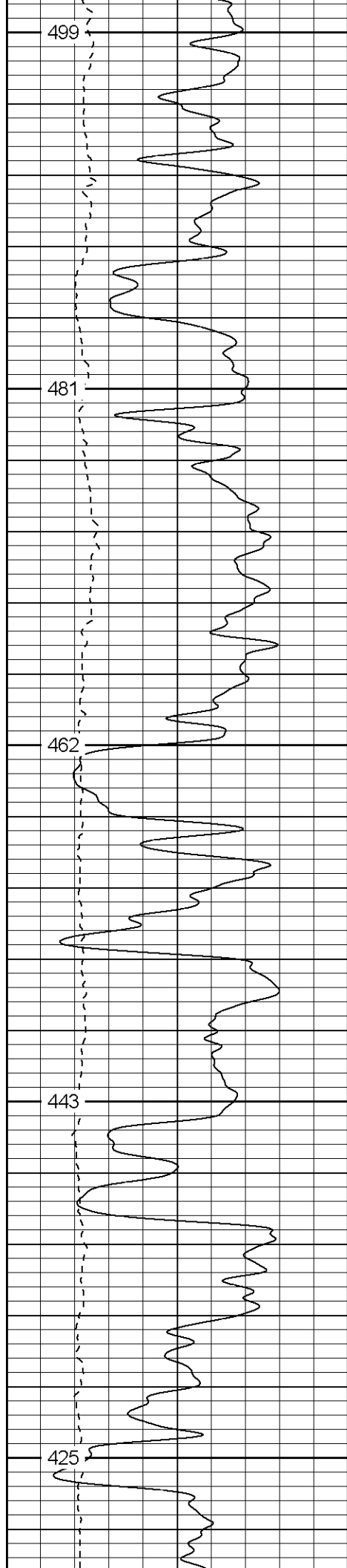
Main Pass

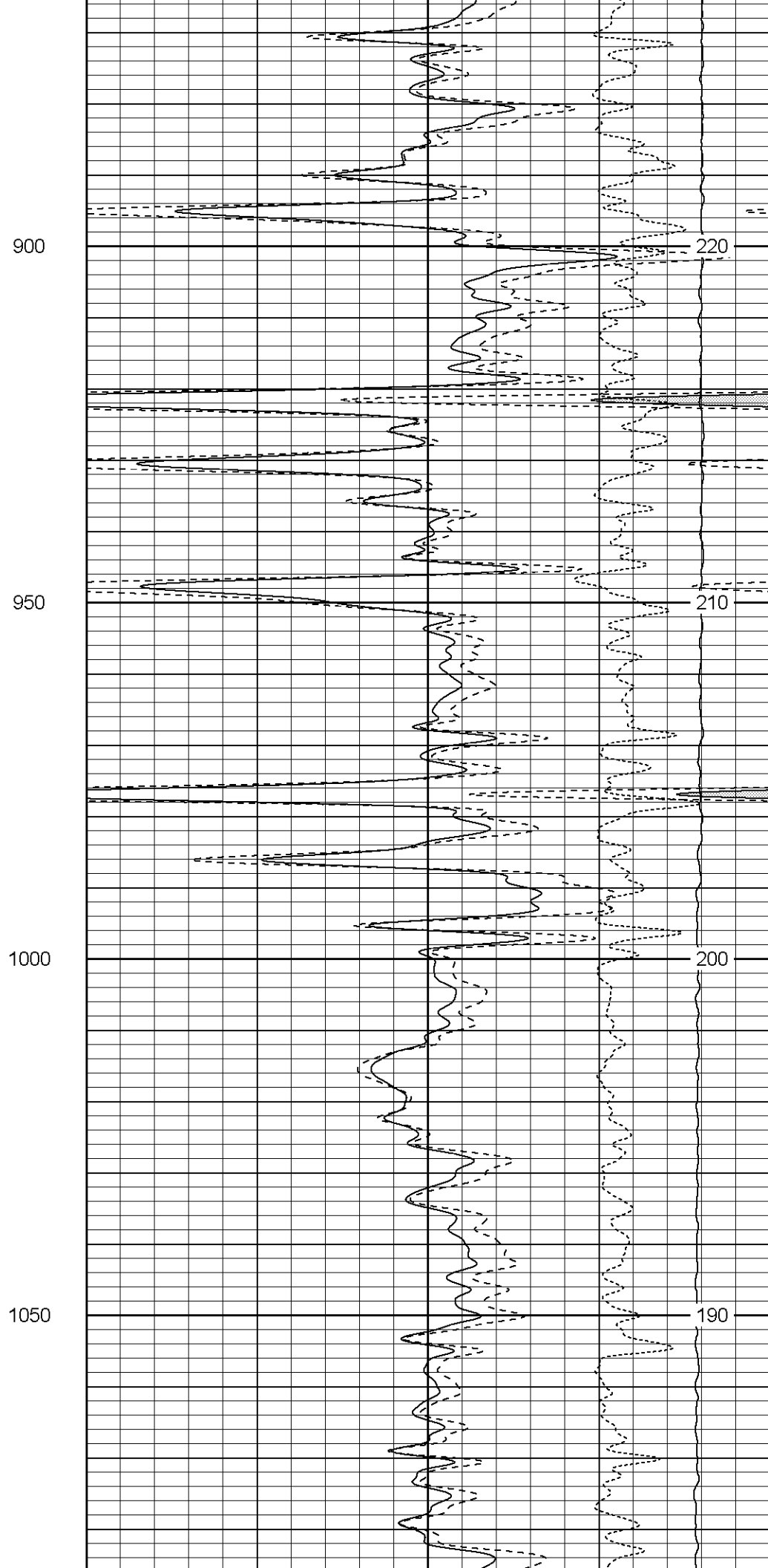
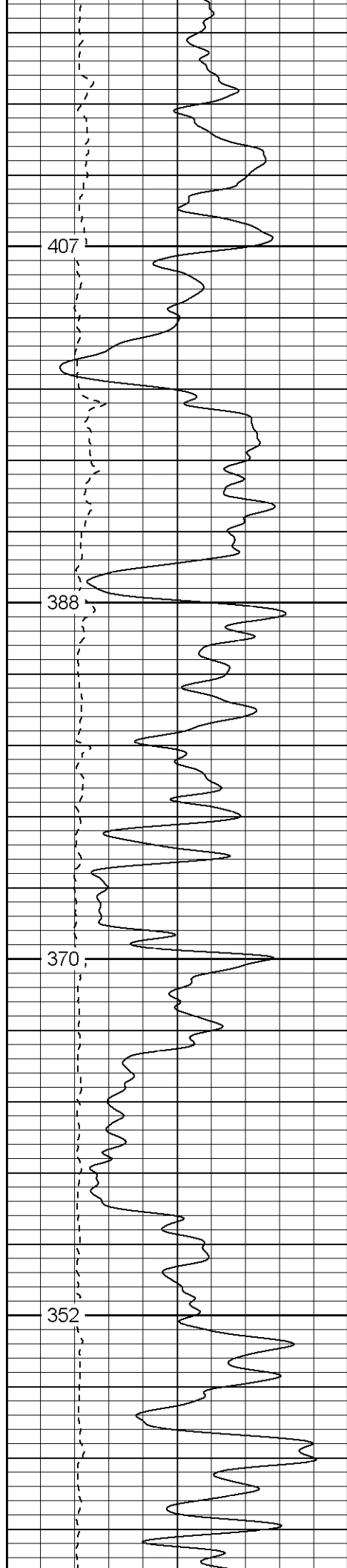
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Dataset Pathname: pass4.1
Presentation Format: cdl
Dataset Creation: Mon Oct 10 14:04:59 2005 by Calc Warrior 7.0 STD Ope
Charted by: Depth in Feet scaled 1:240

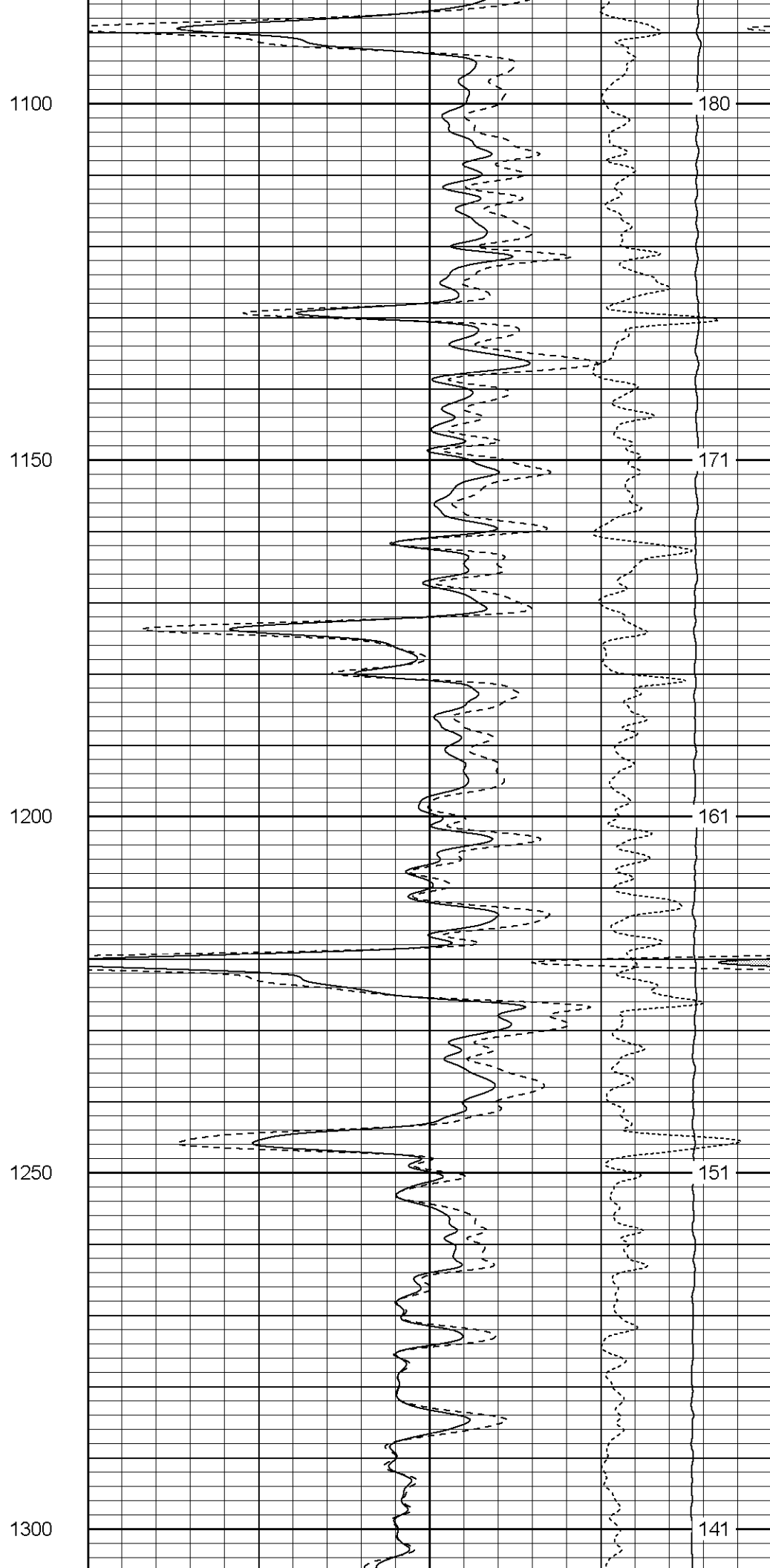
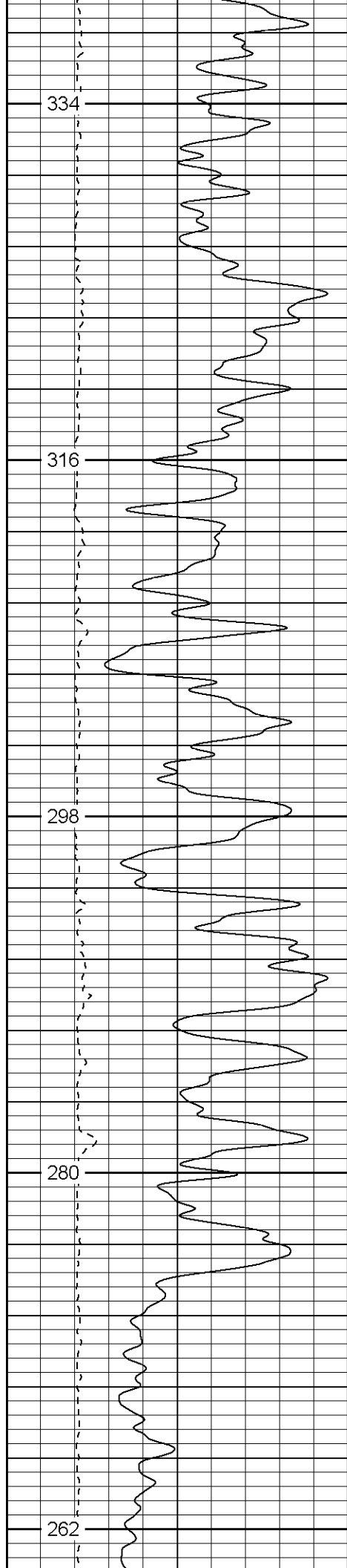
0	GR (GAPI)	200	1	RHOB (g/cc)	2
6	DCAL (in)	16	30	DPOR (pu)	-10
			-0.5	RHOC (g/cc)	0.5
			4000	LTEN (lb)	0

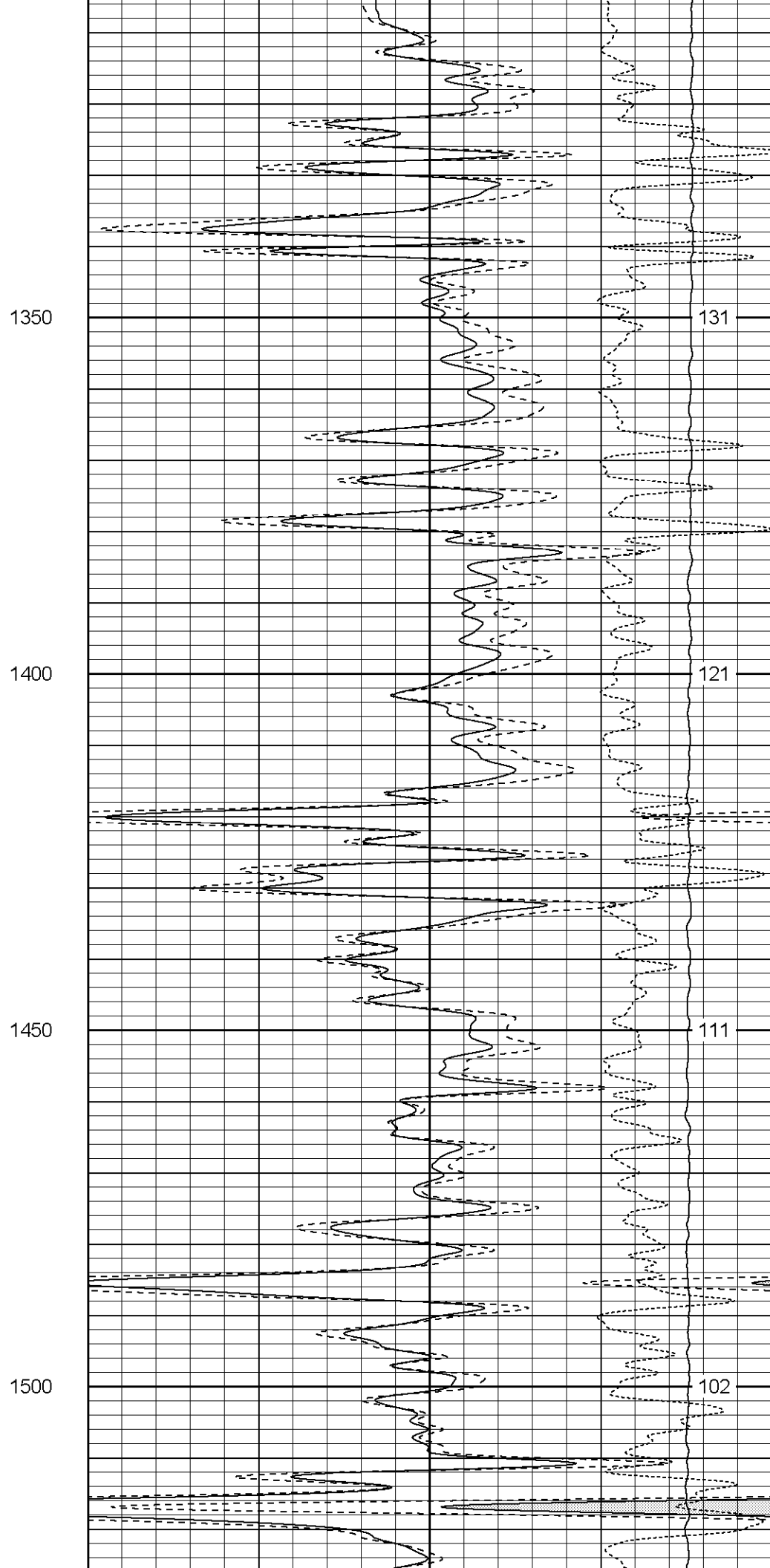
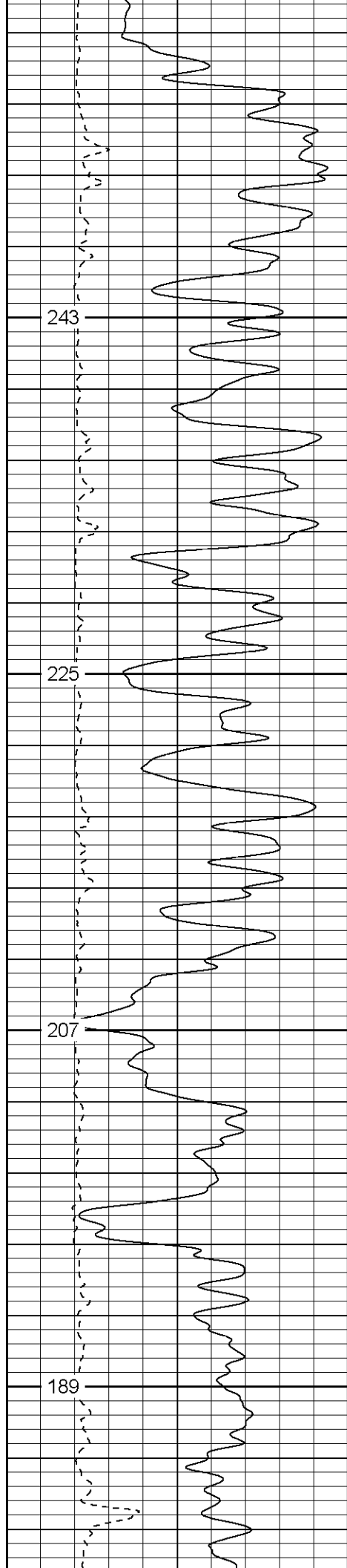


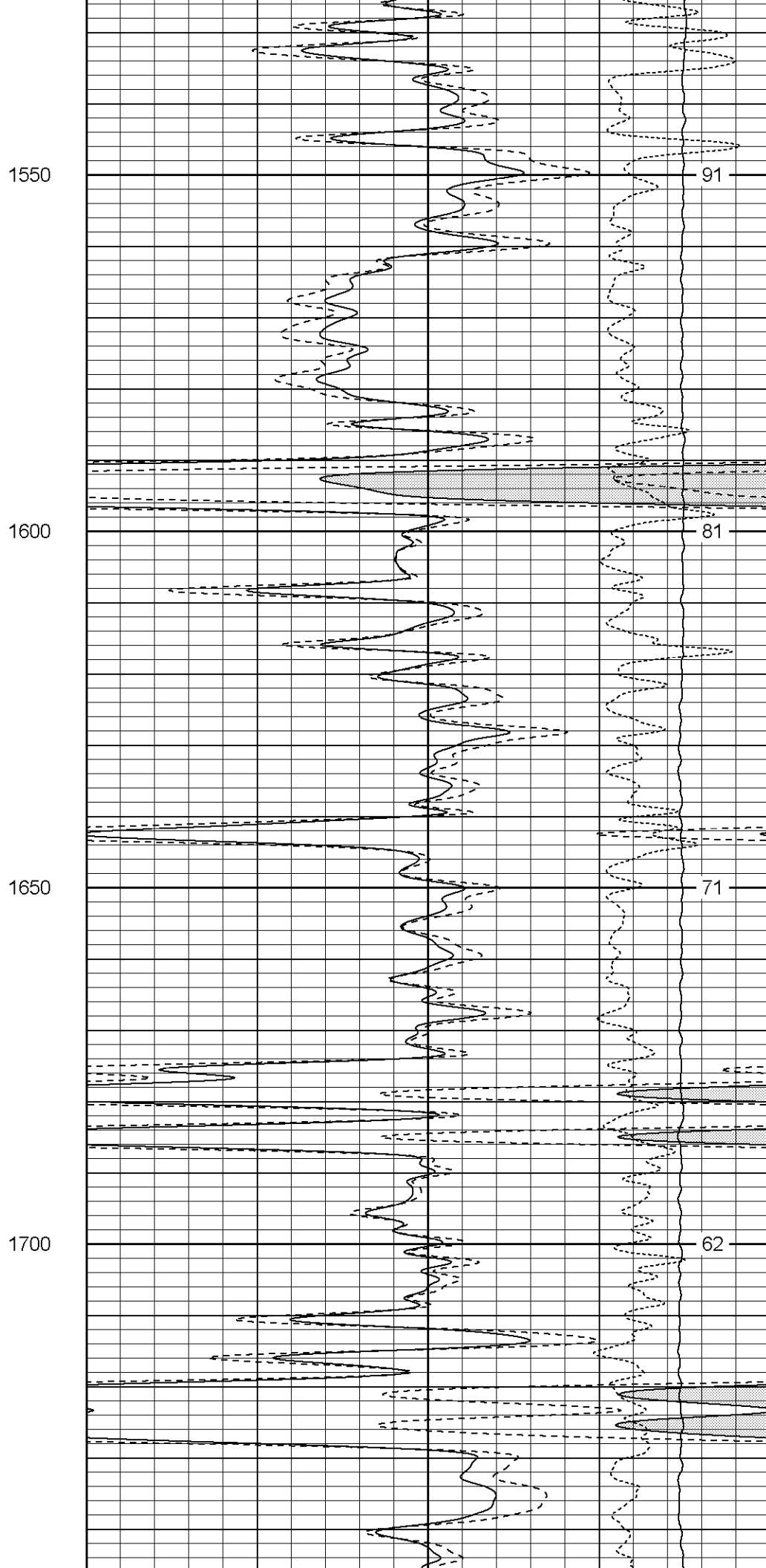
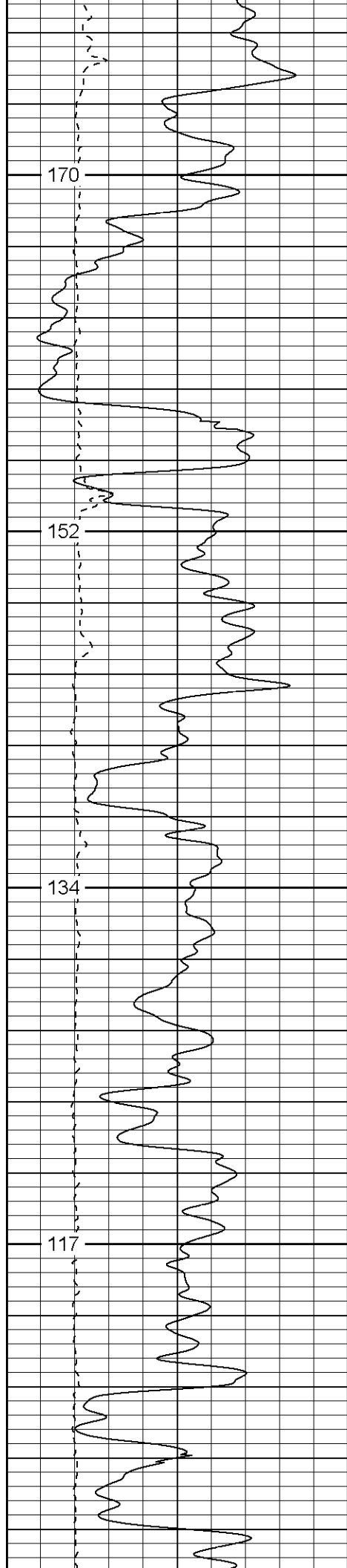


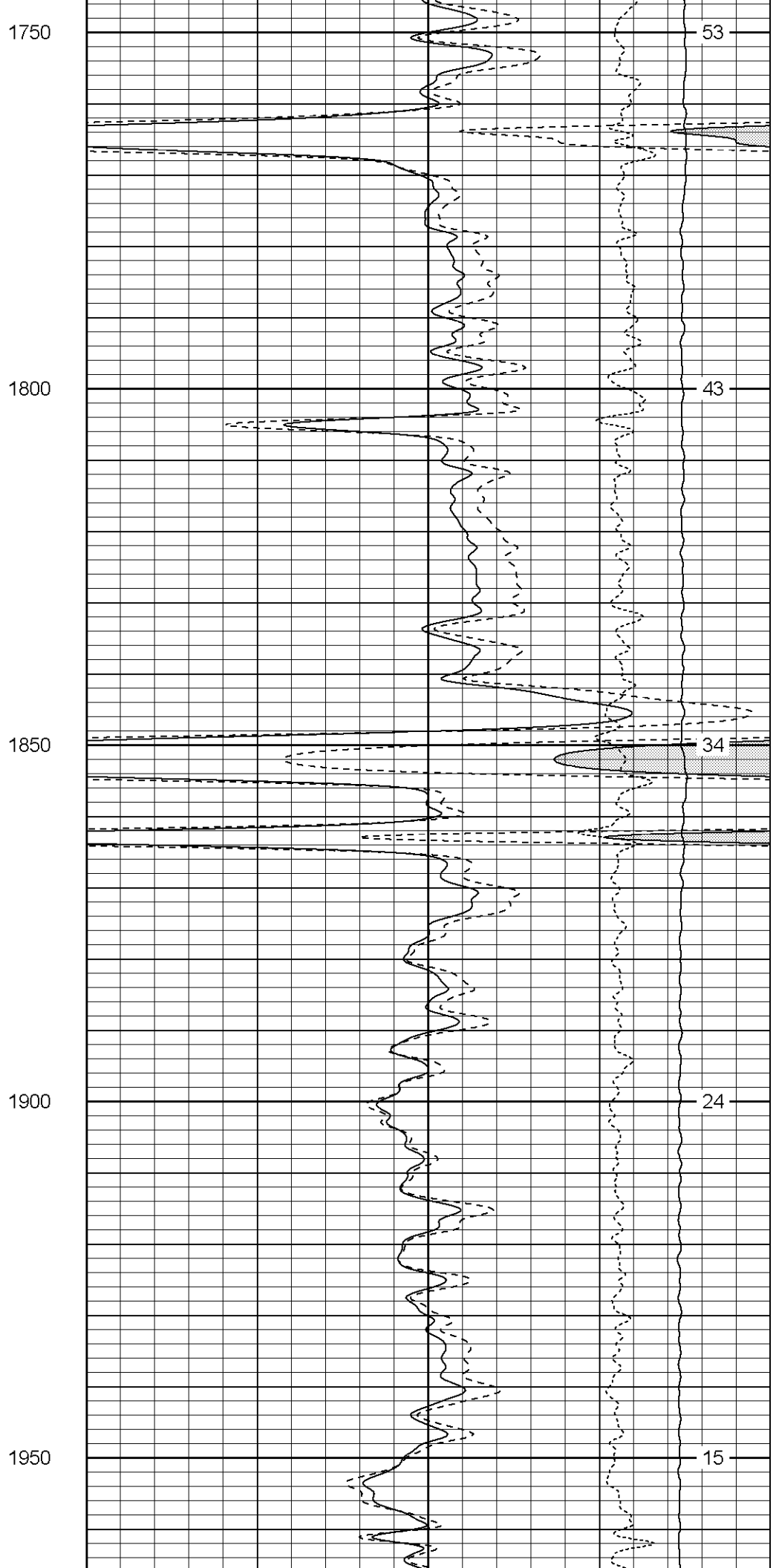
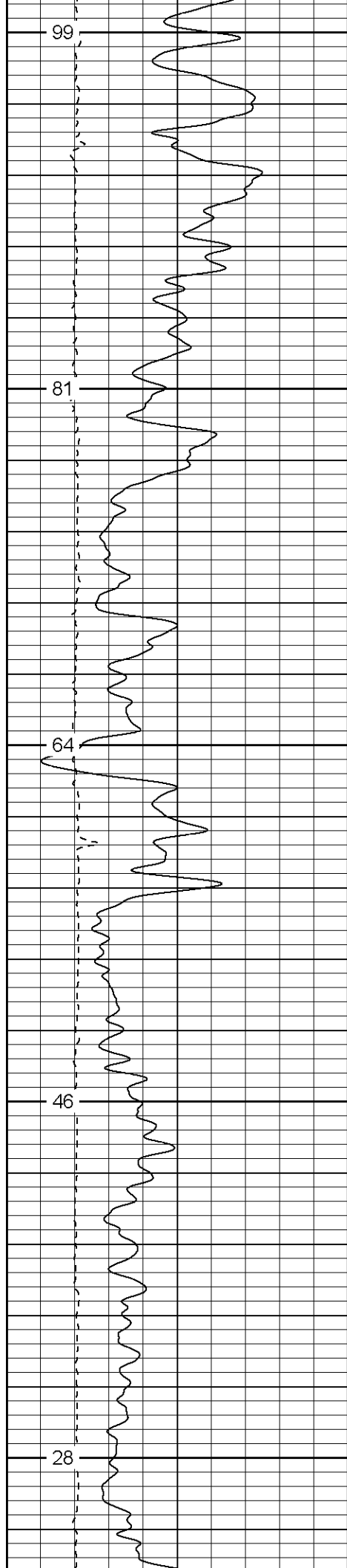


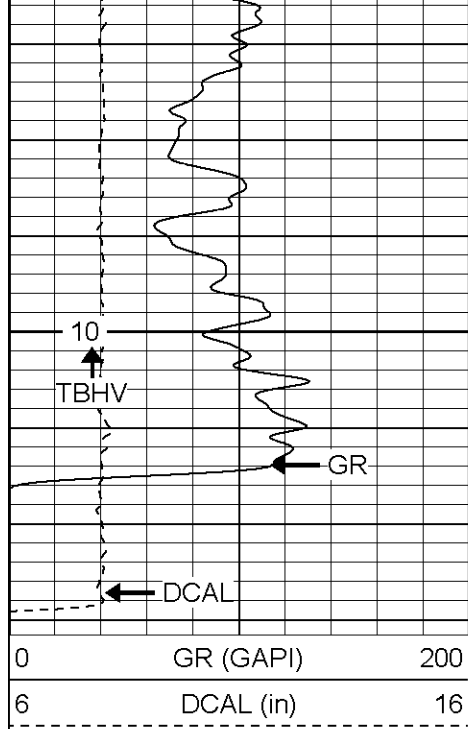




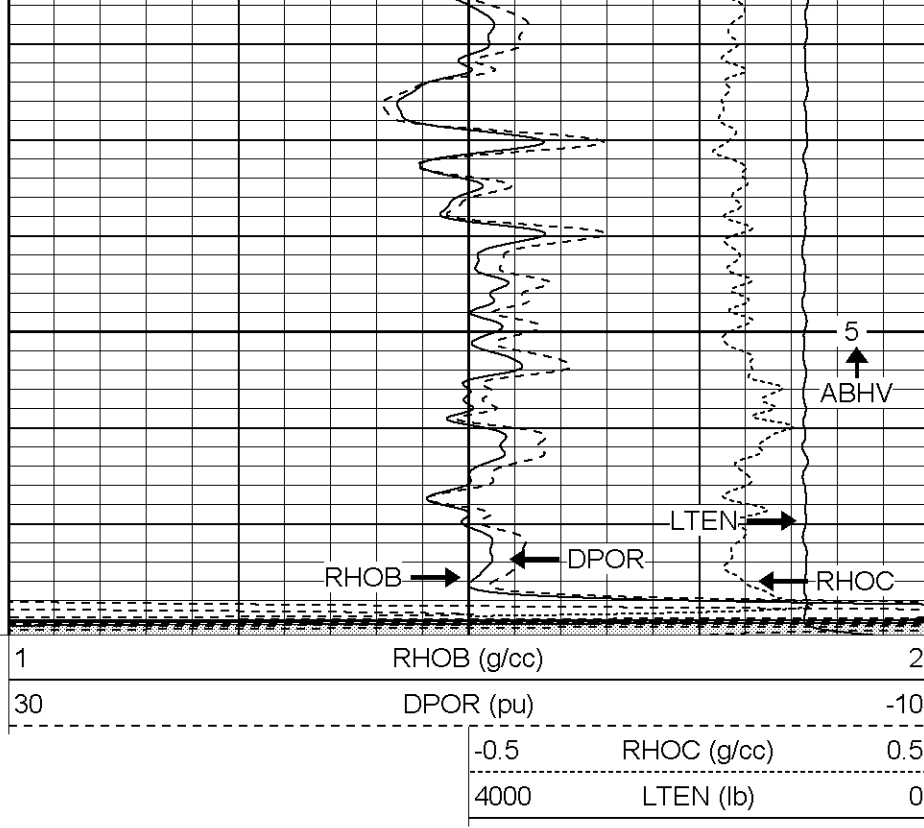








2000



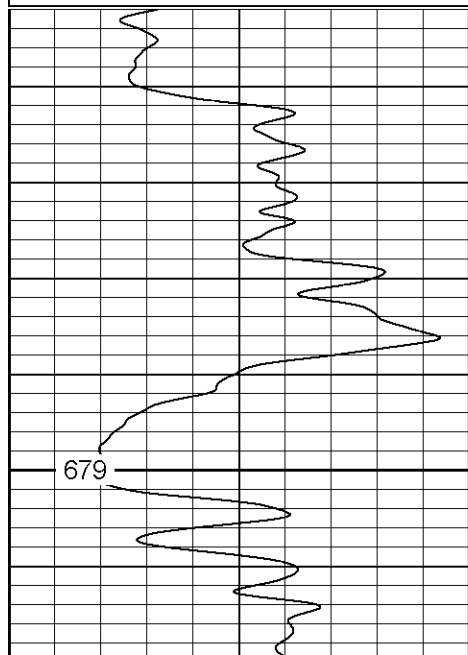
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Main Pass

Database File: lorencito12223466.db
 Dataset Pathname: pass4.1
 Presentation Format: cdnl
 Dataset Creation: Mon Oct 10 14:04:59 2005 by Calc Warrior 7.0 STD Ope
 Charted by: Depth in Feet scaled 1:240

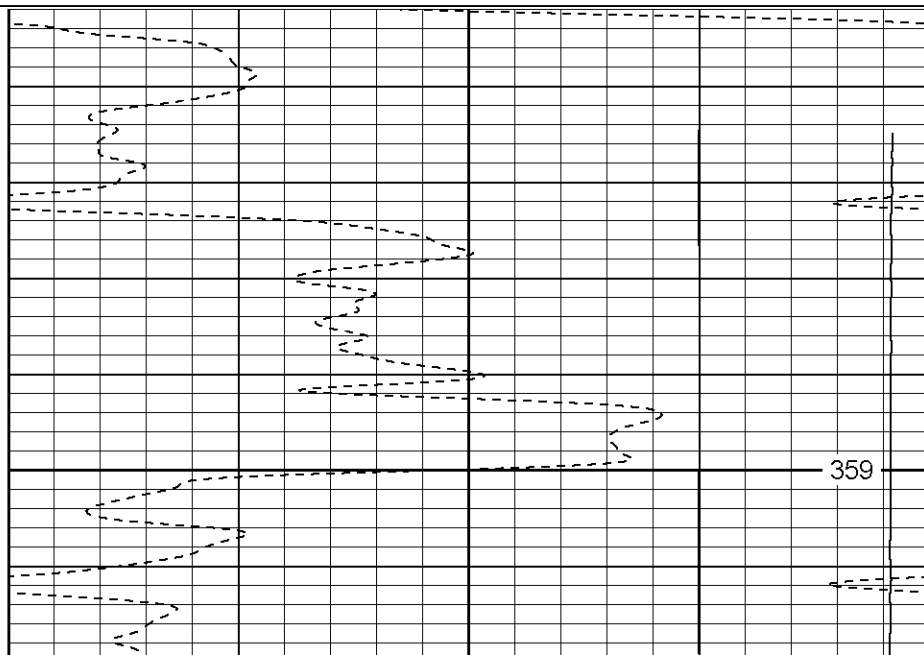
0	GR (GAPI)	200
6	DCAL (in)	16

30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
5000	LTEN (lb)	0

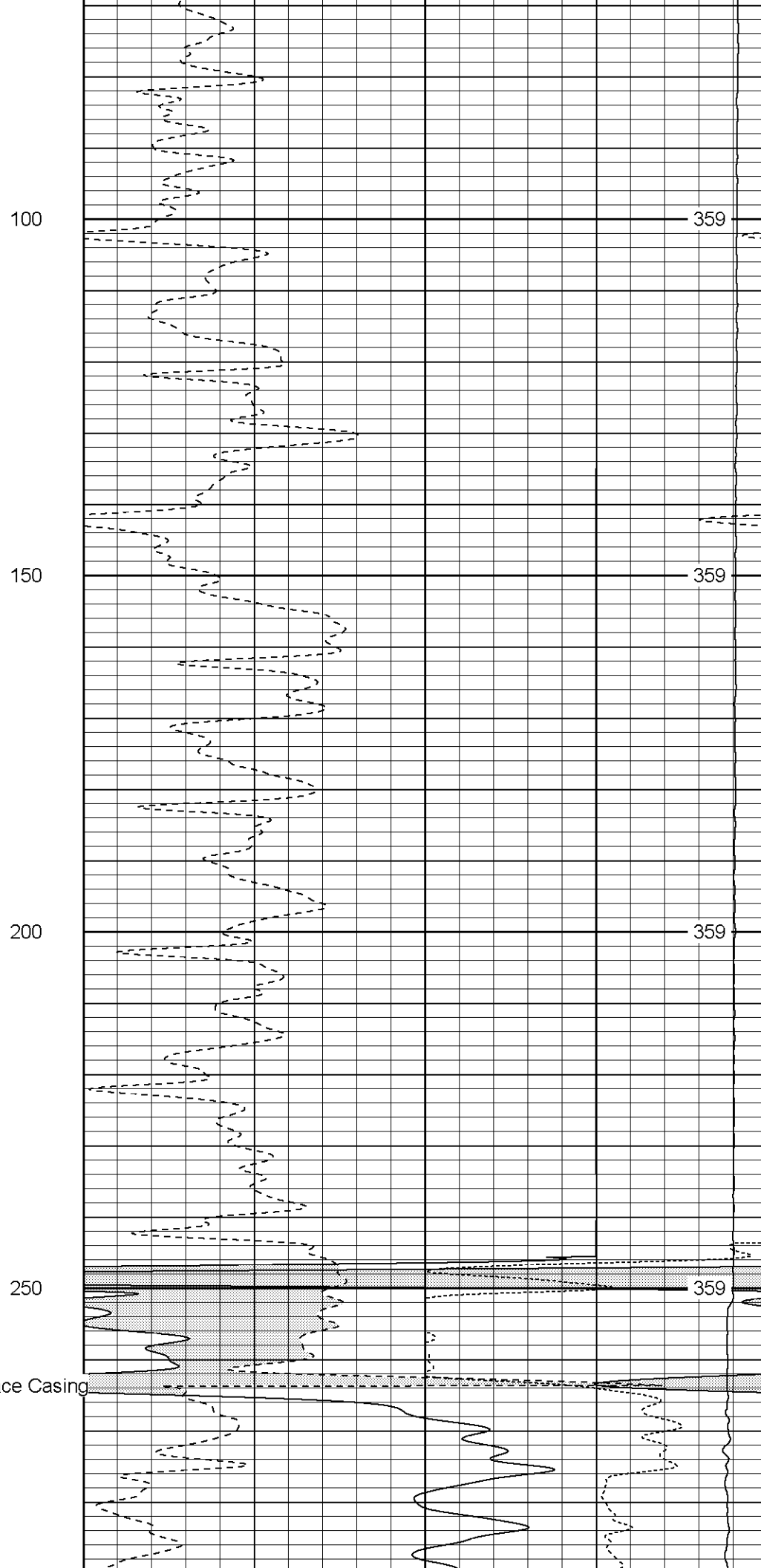
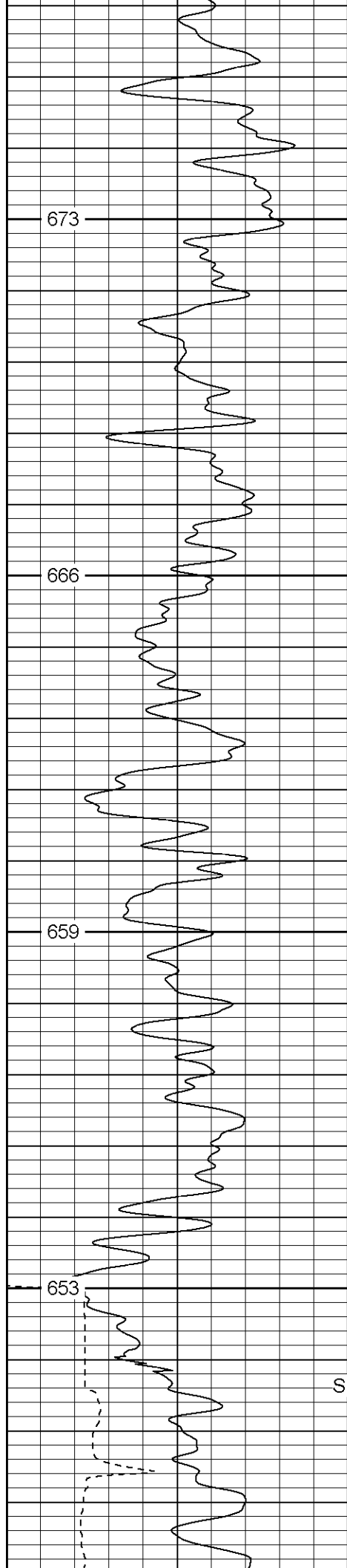


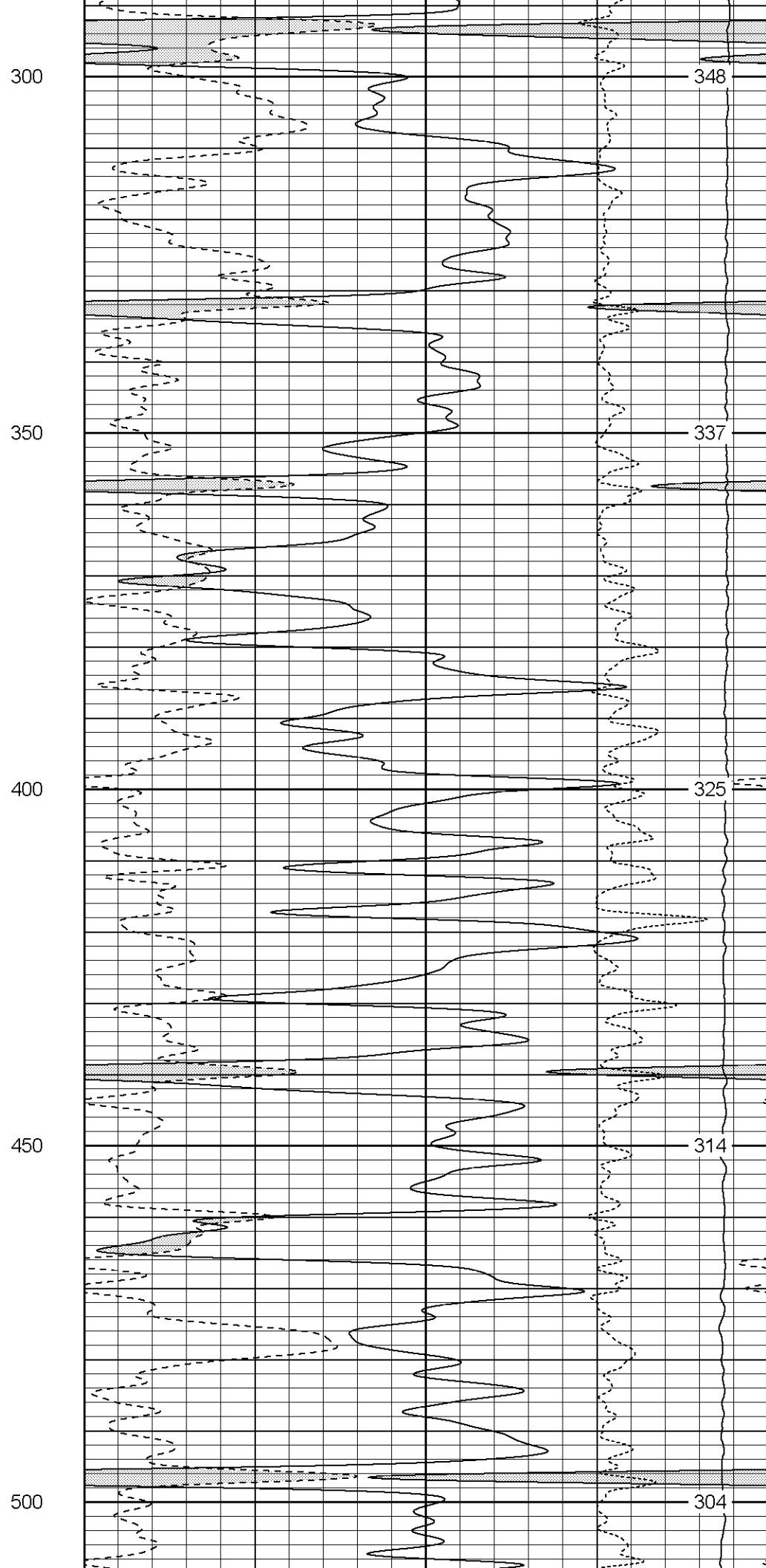
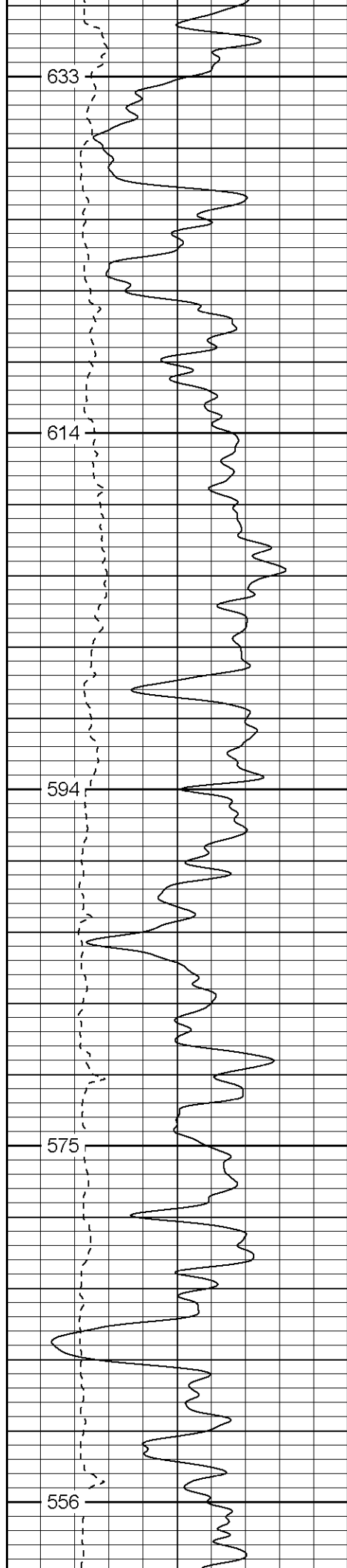
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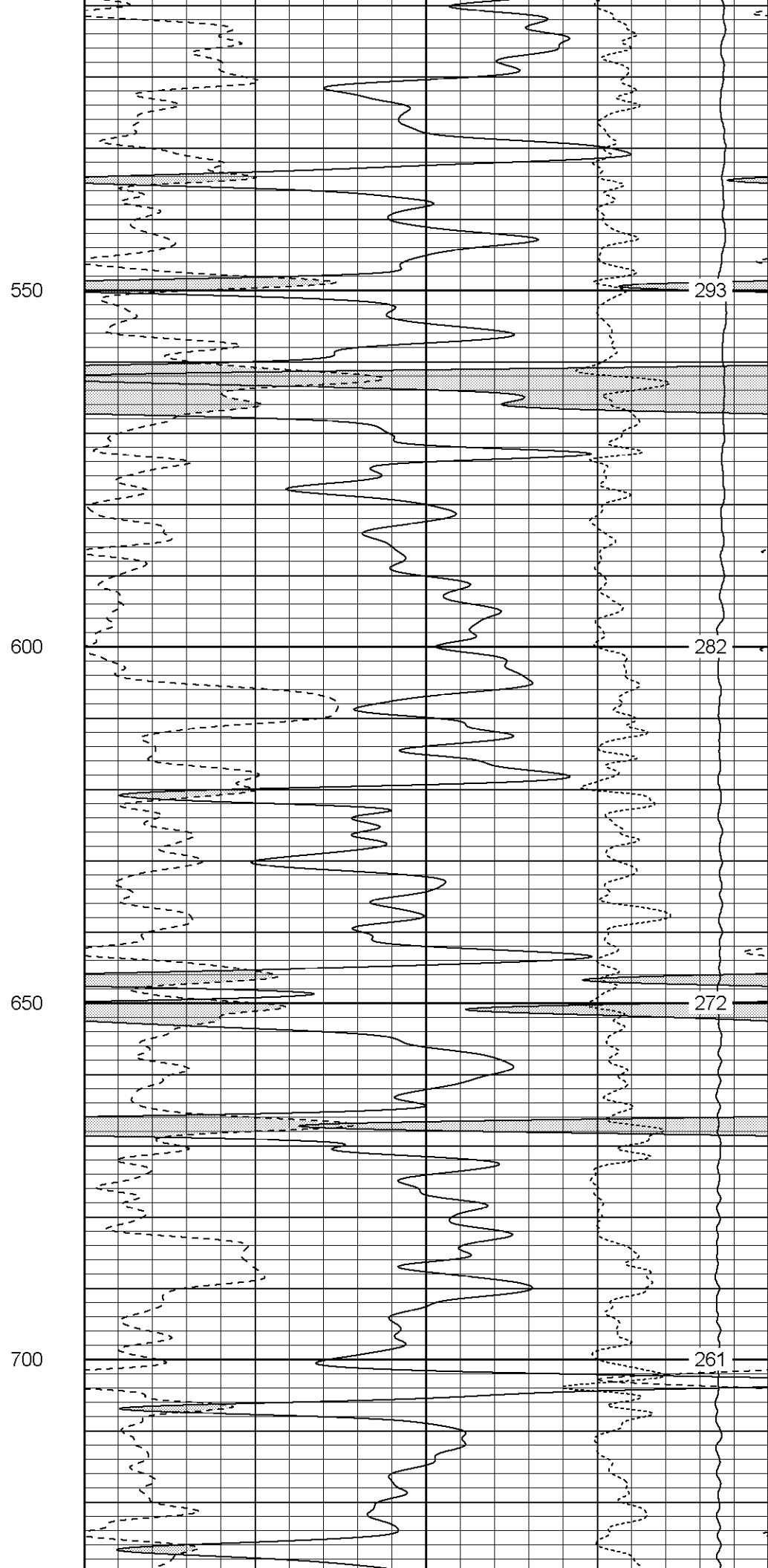
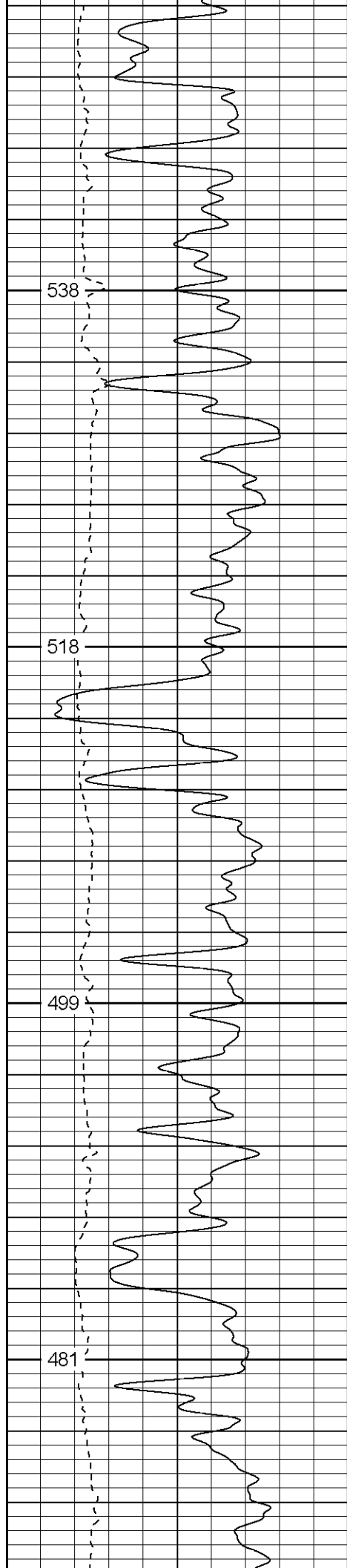
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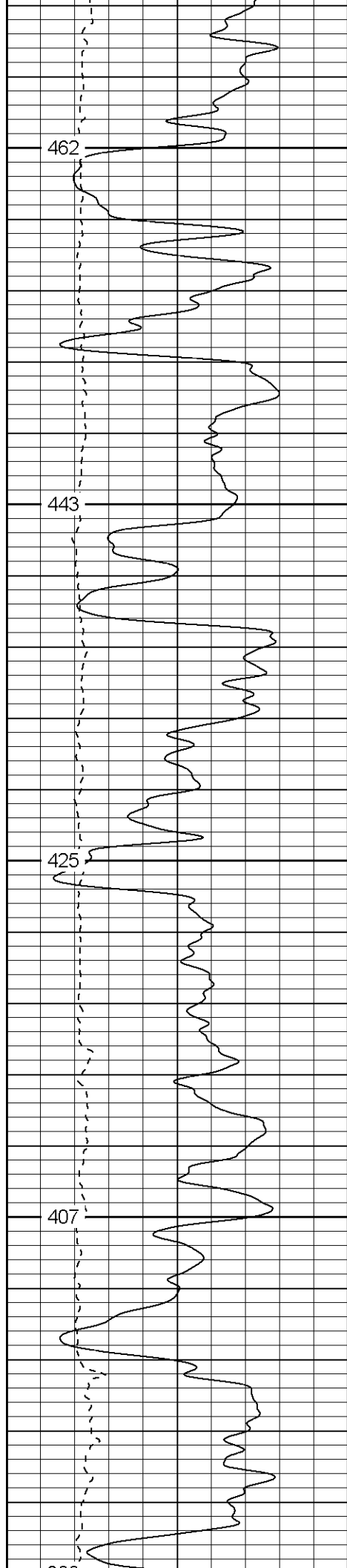


359









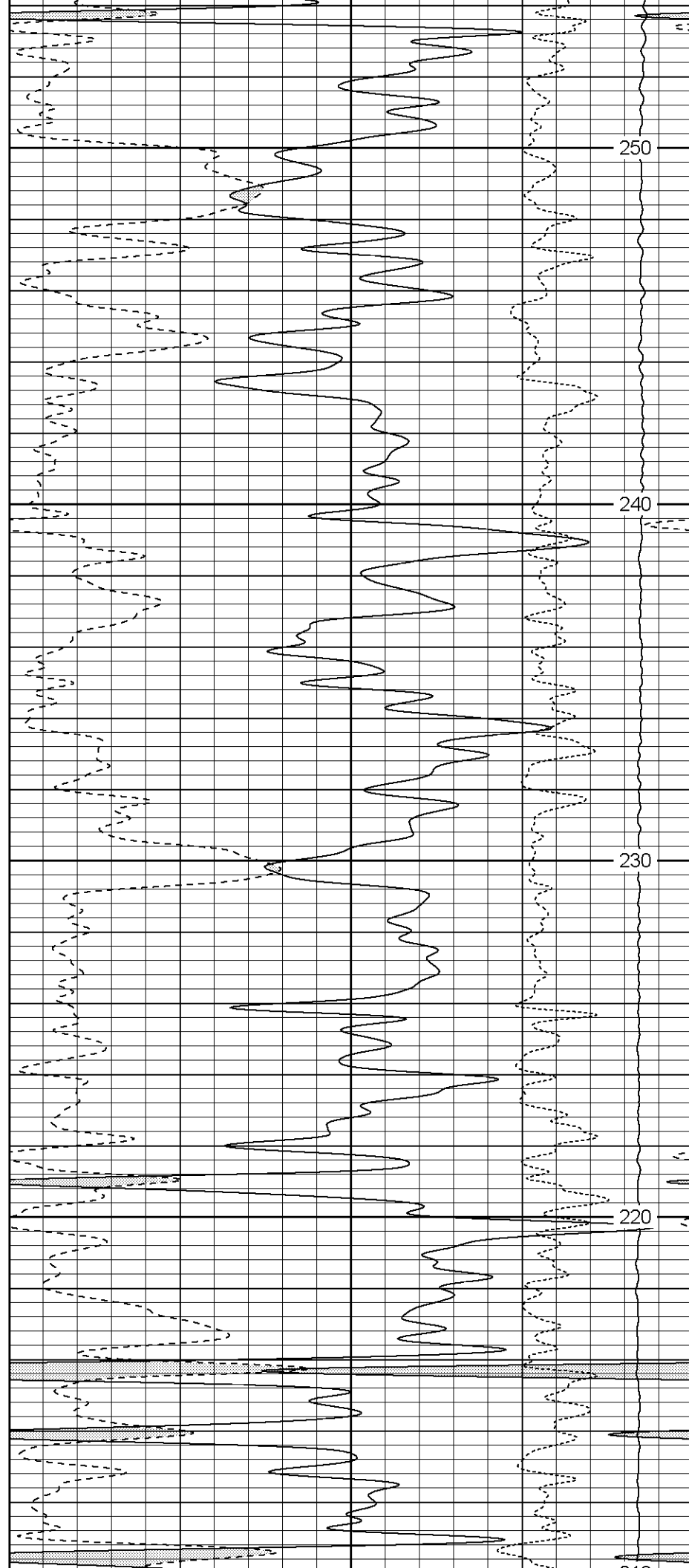
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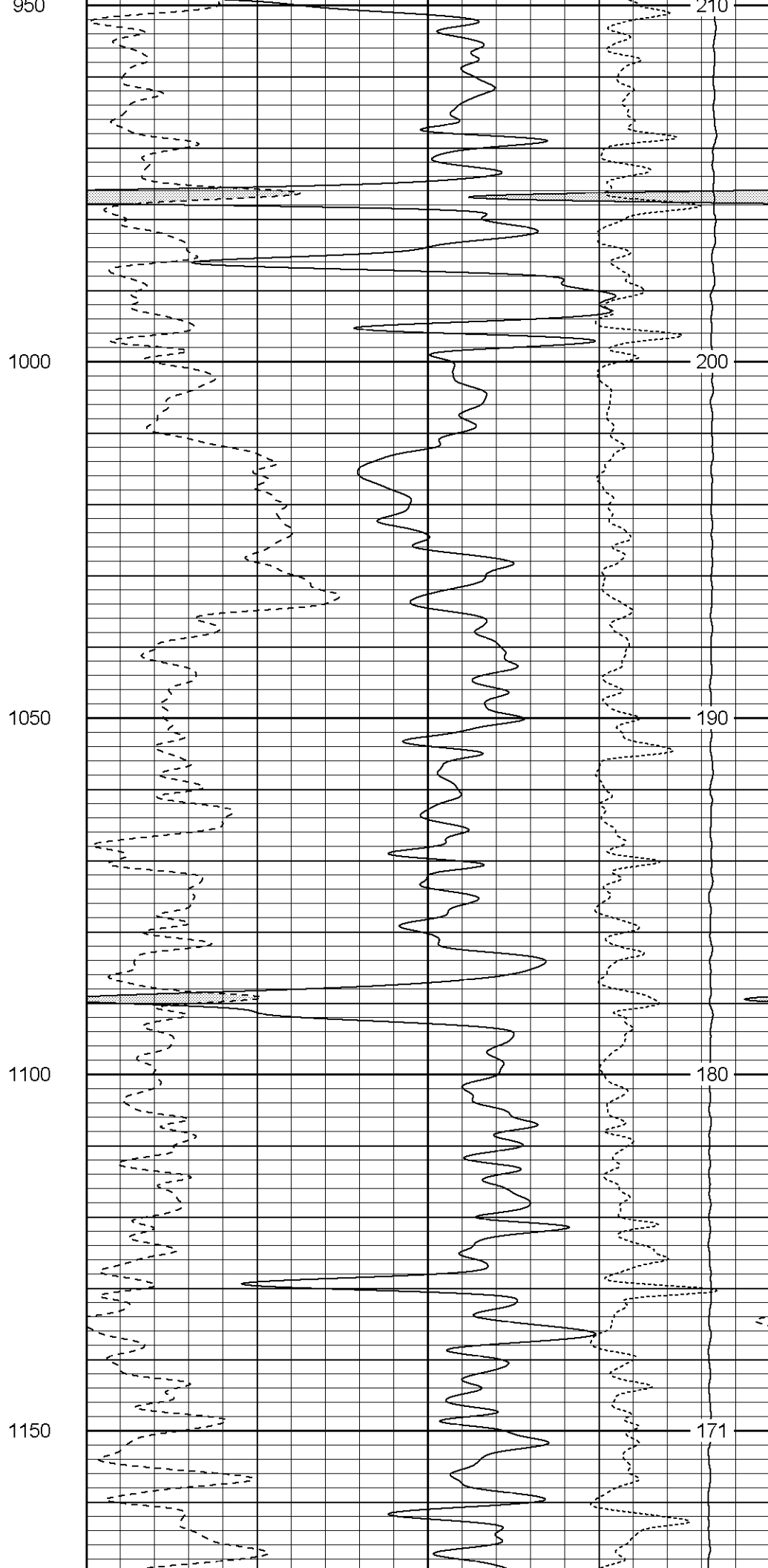
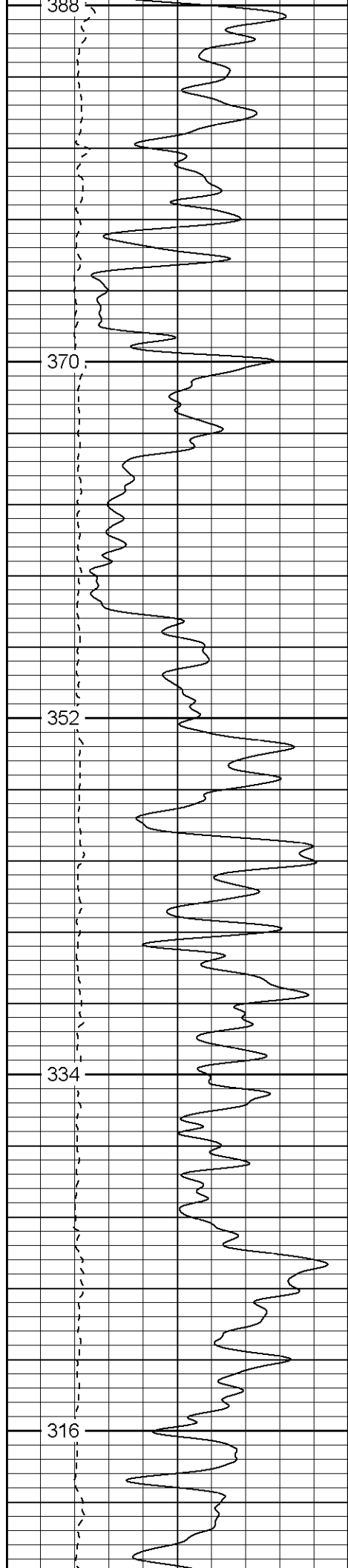
800

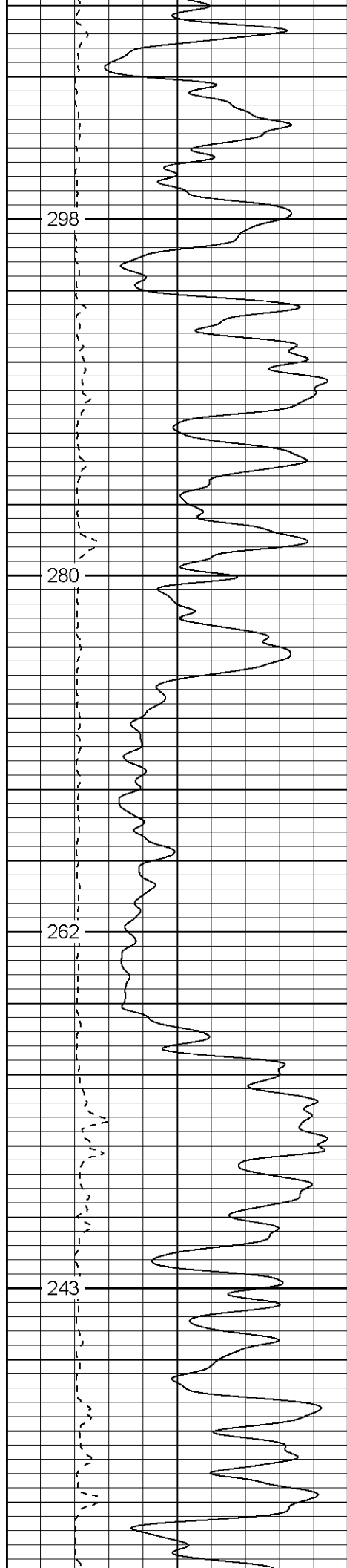
850

900

950





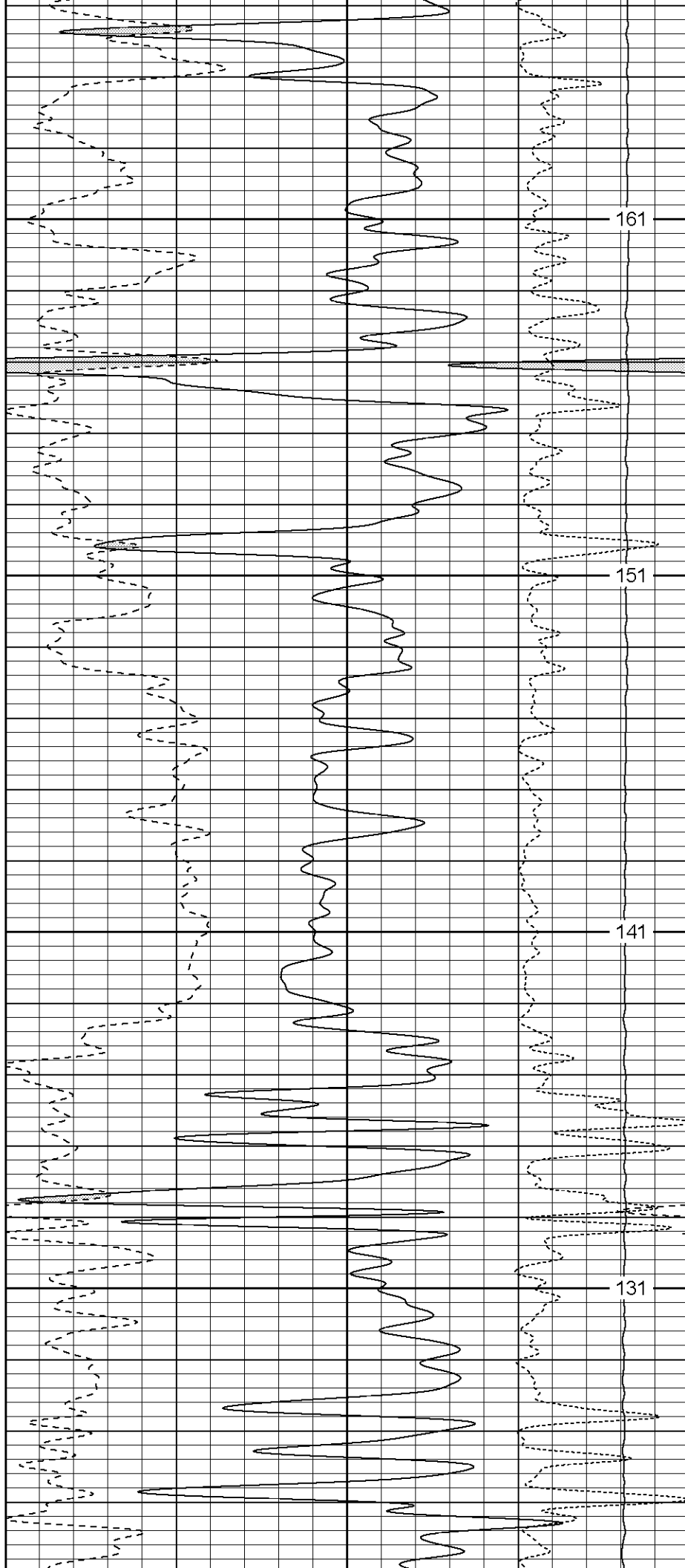


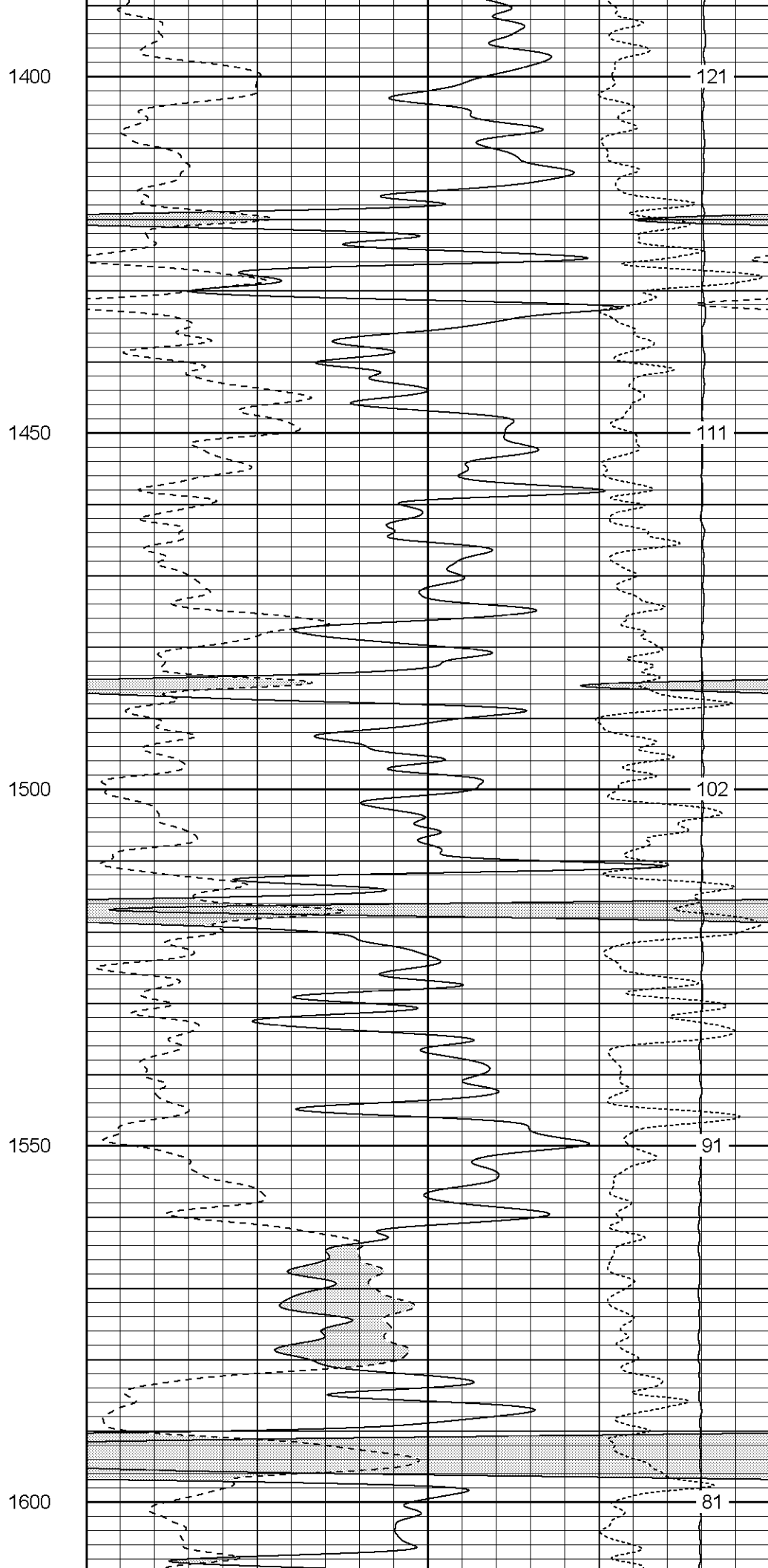
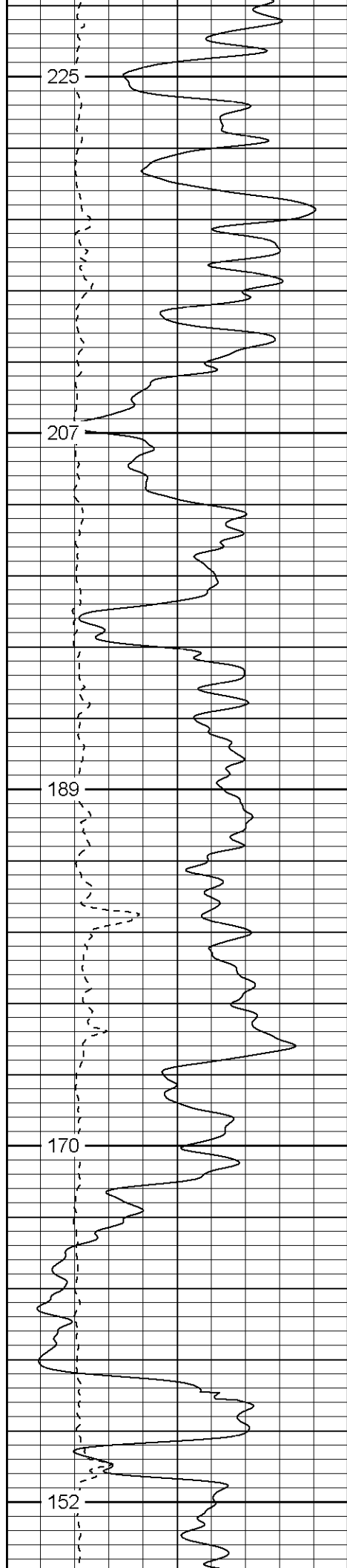
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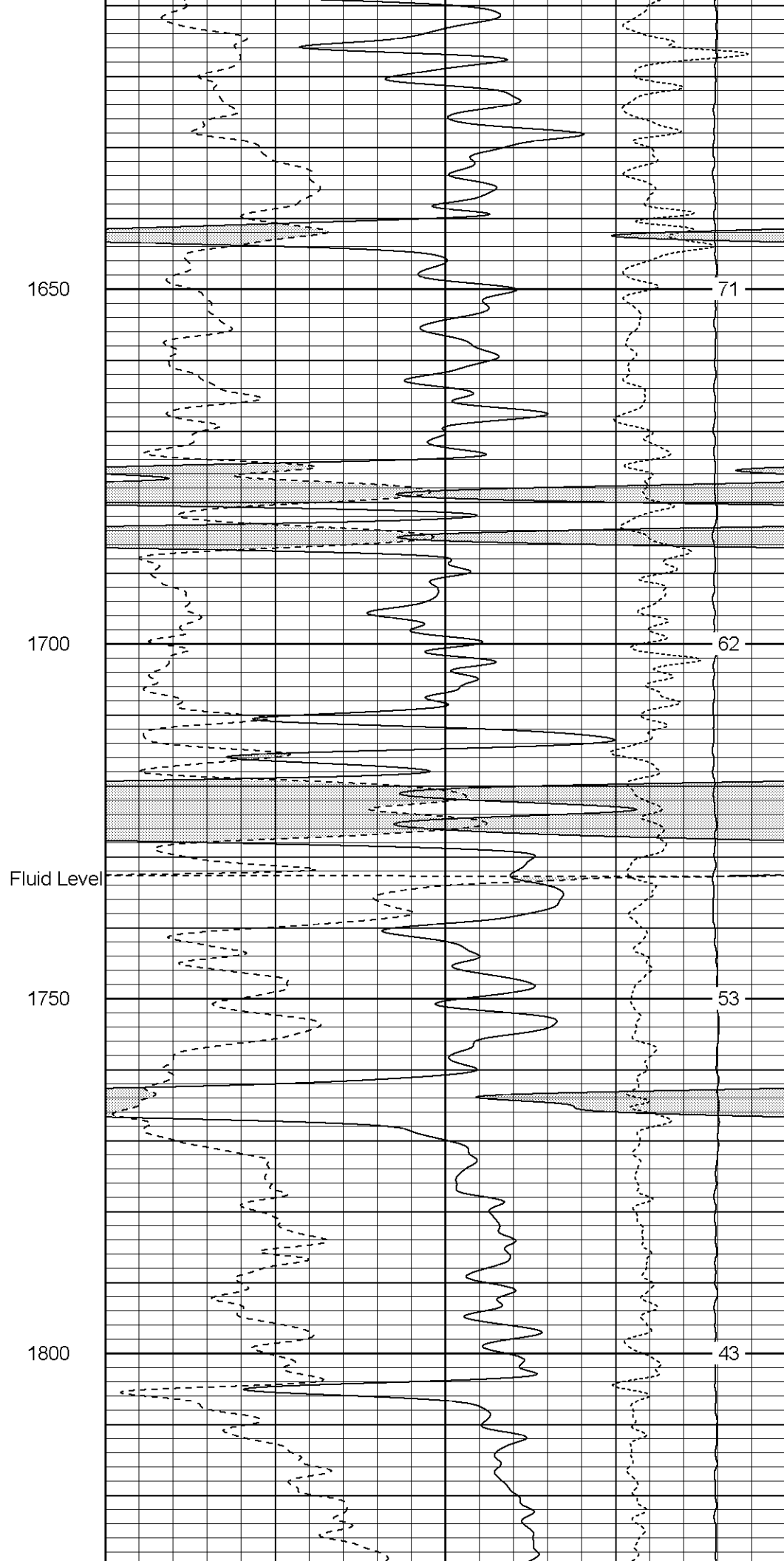
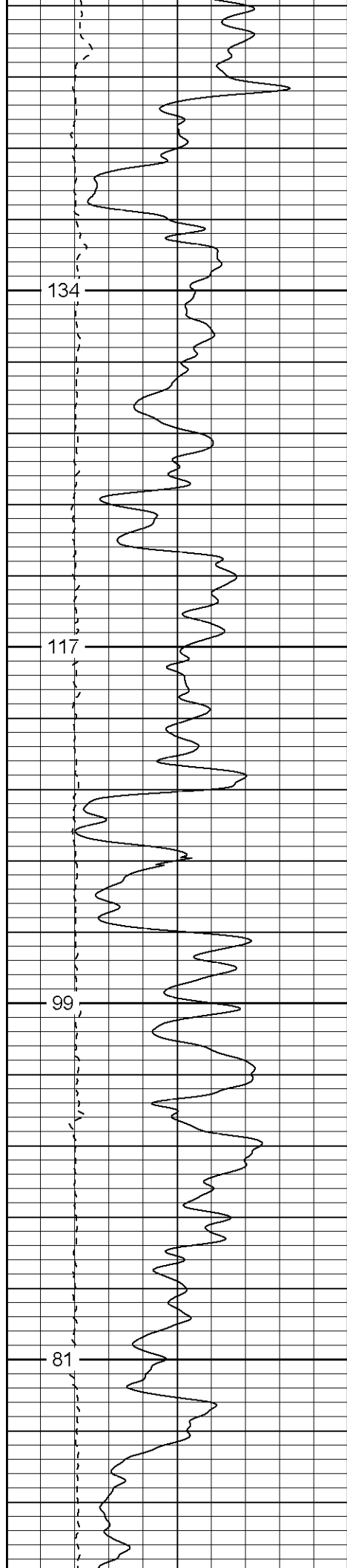
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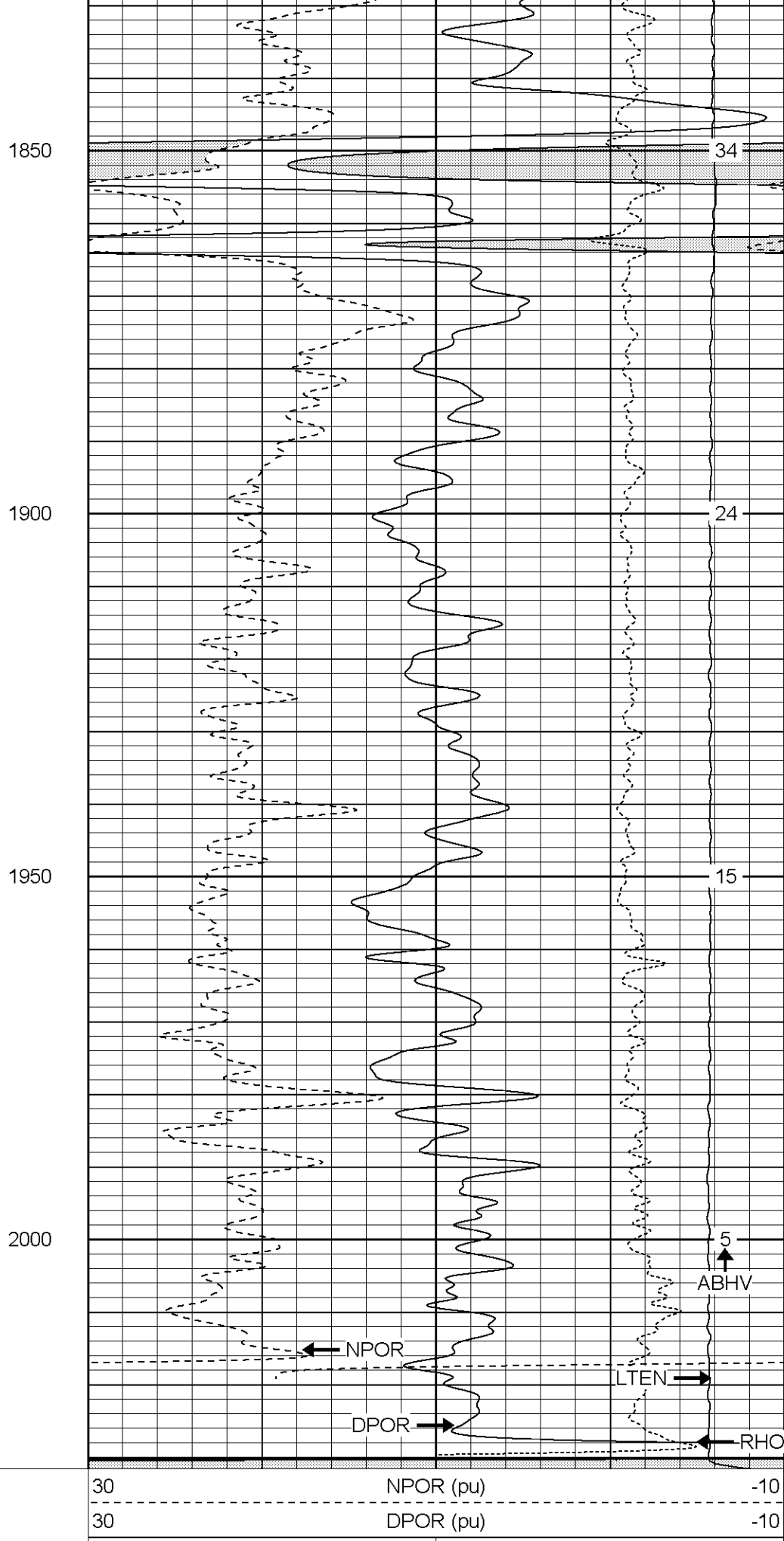
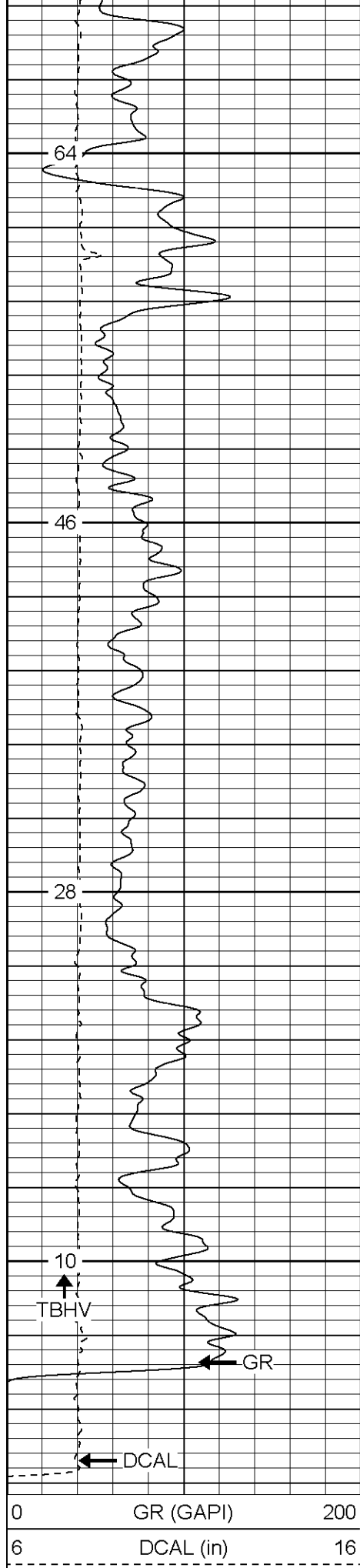
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1350



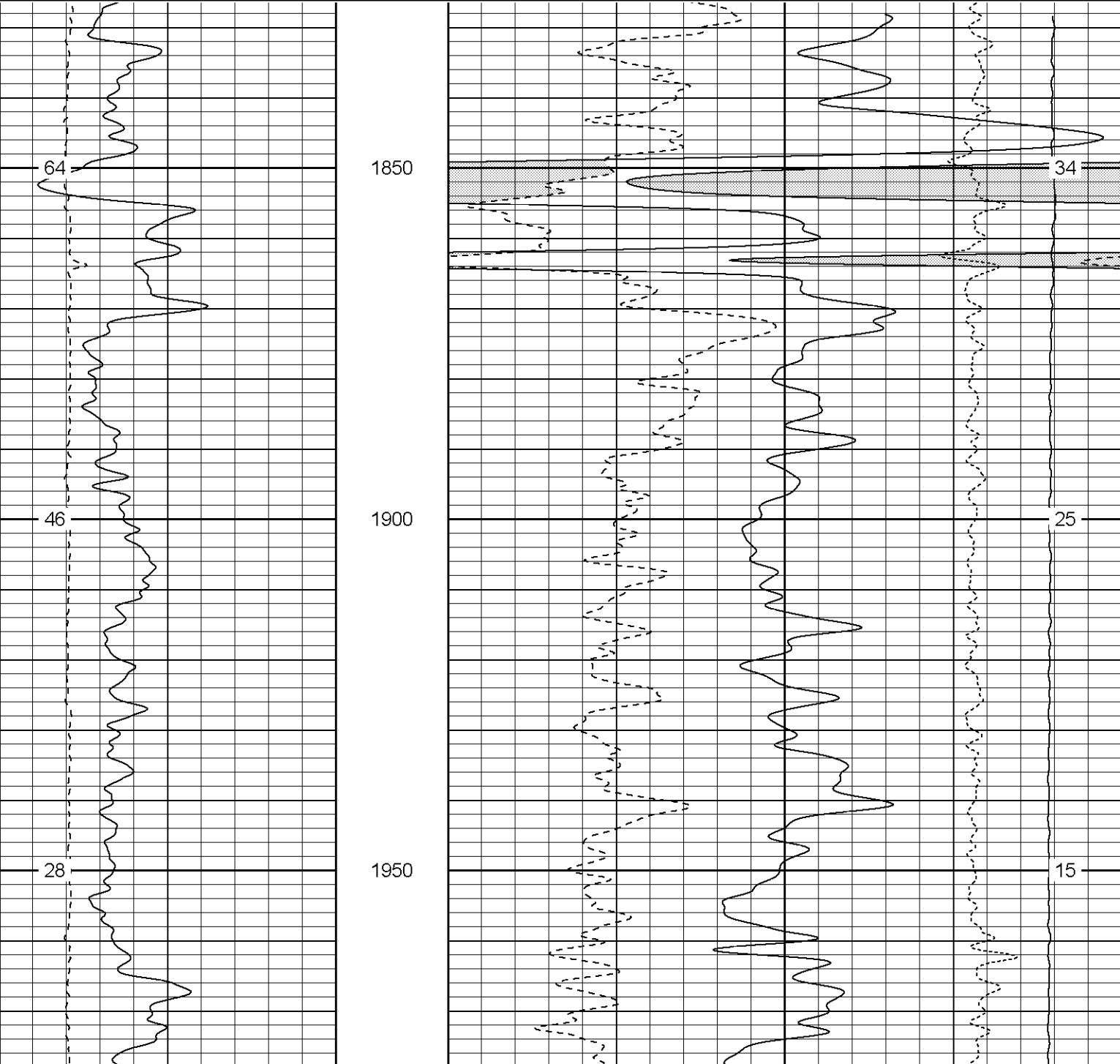


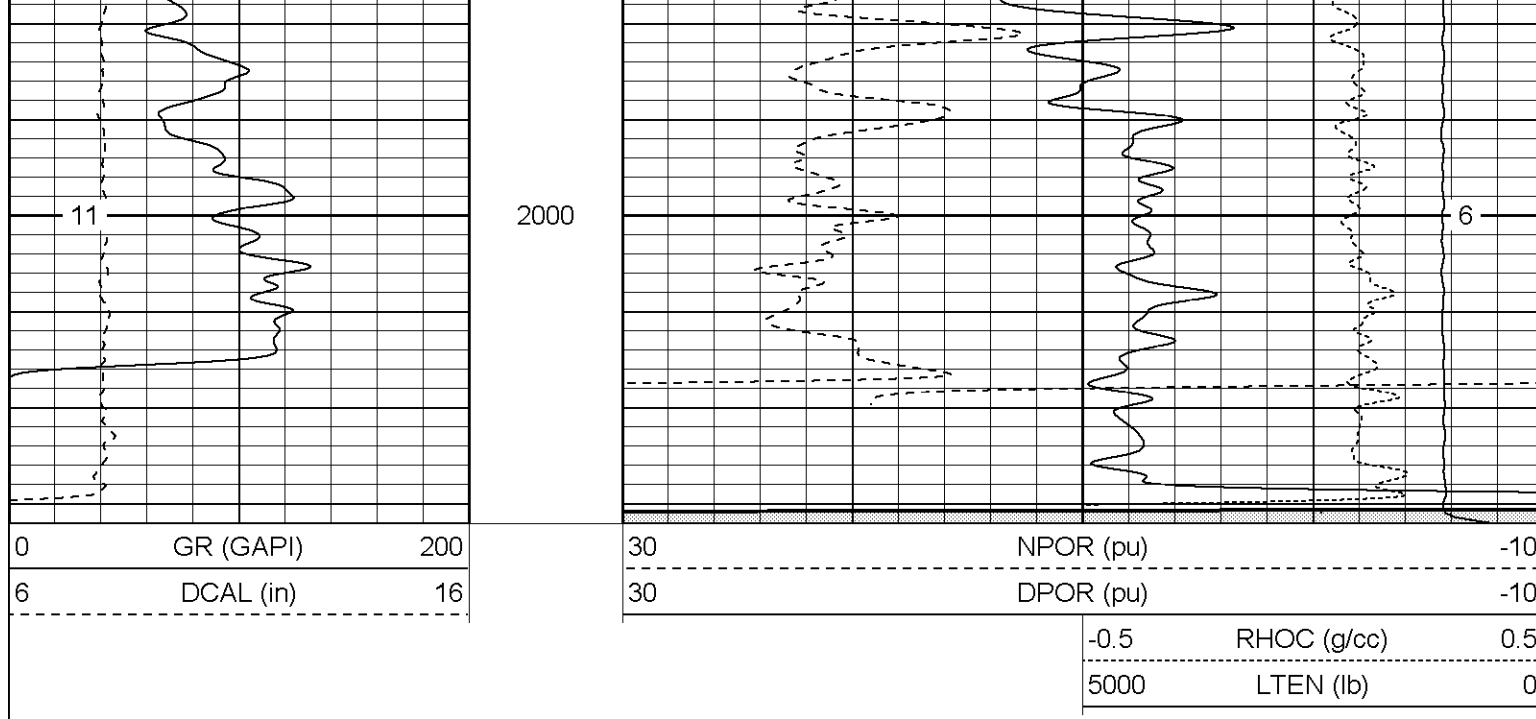




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Presentation Format: cdnl
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Charted by: Depth in Feet scaled 1:240

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



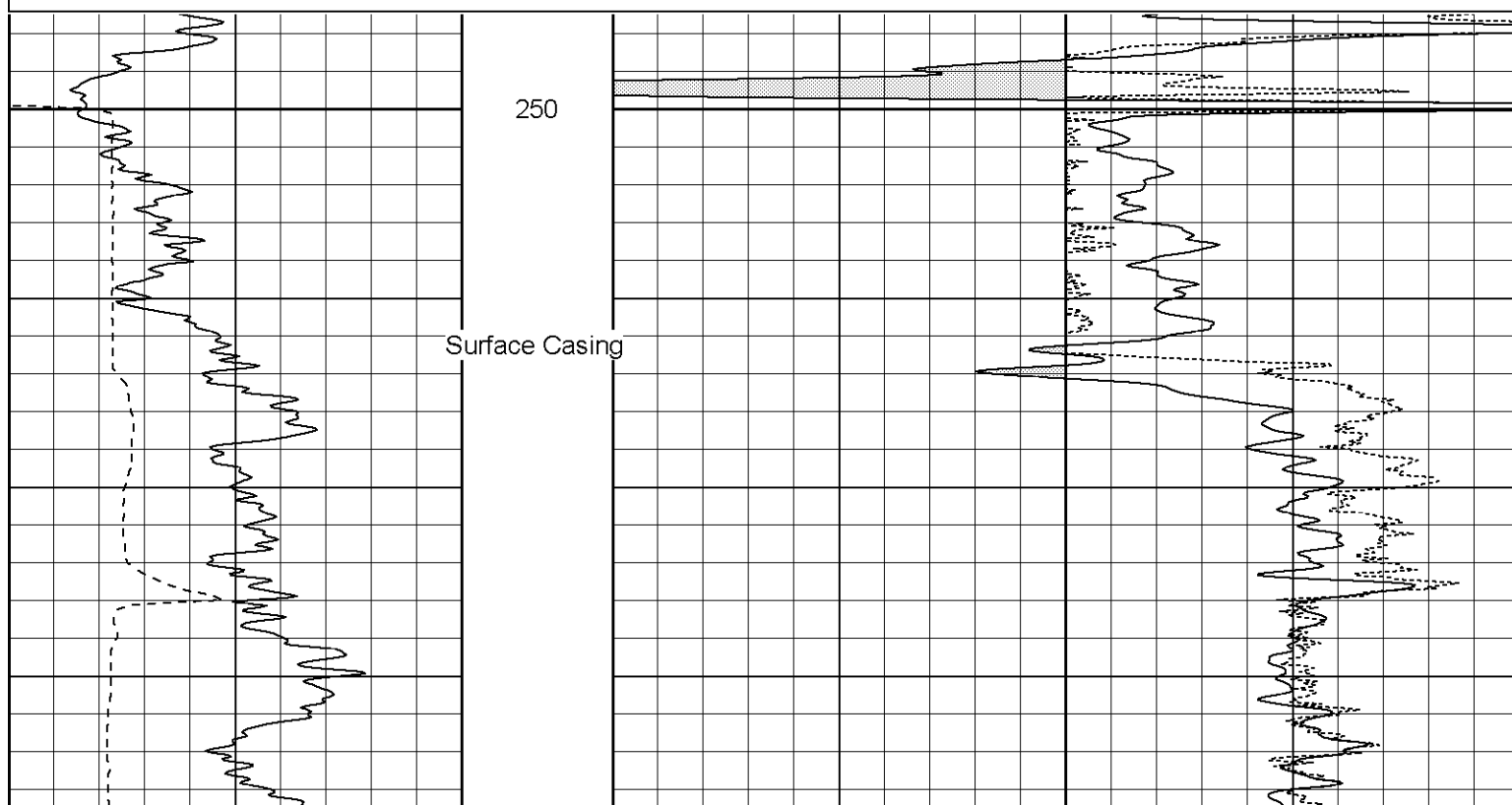


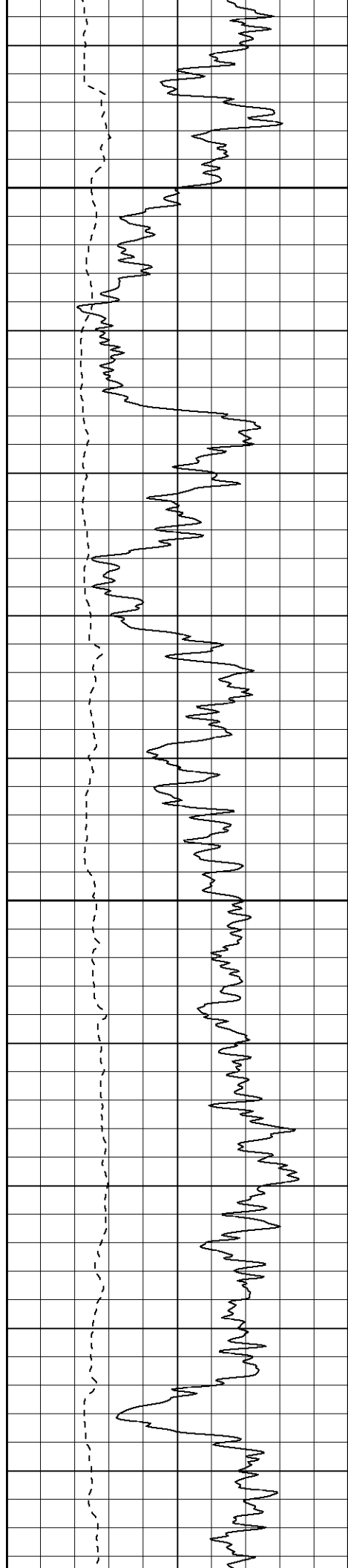
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High Resolution Pass

Database File: lorencito12223466.db
 Dataset Pathname: pass4.2
 Presentation Format: cdlhr
 Dataset Creation: Tue Oct 11 07:39:40 2005 by Calc Warrior 7.0 STD Ope
 Charted by: Depth in Feet scaled 1:120

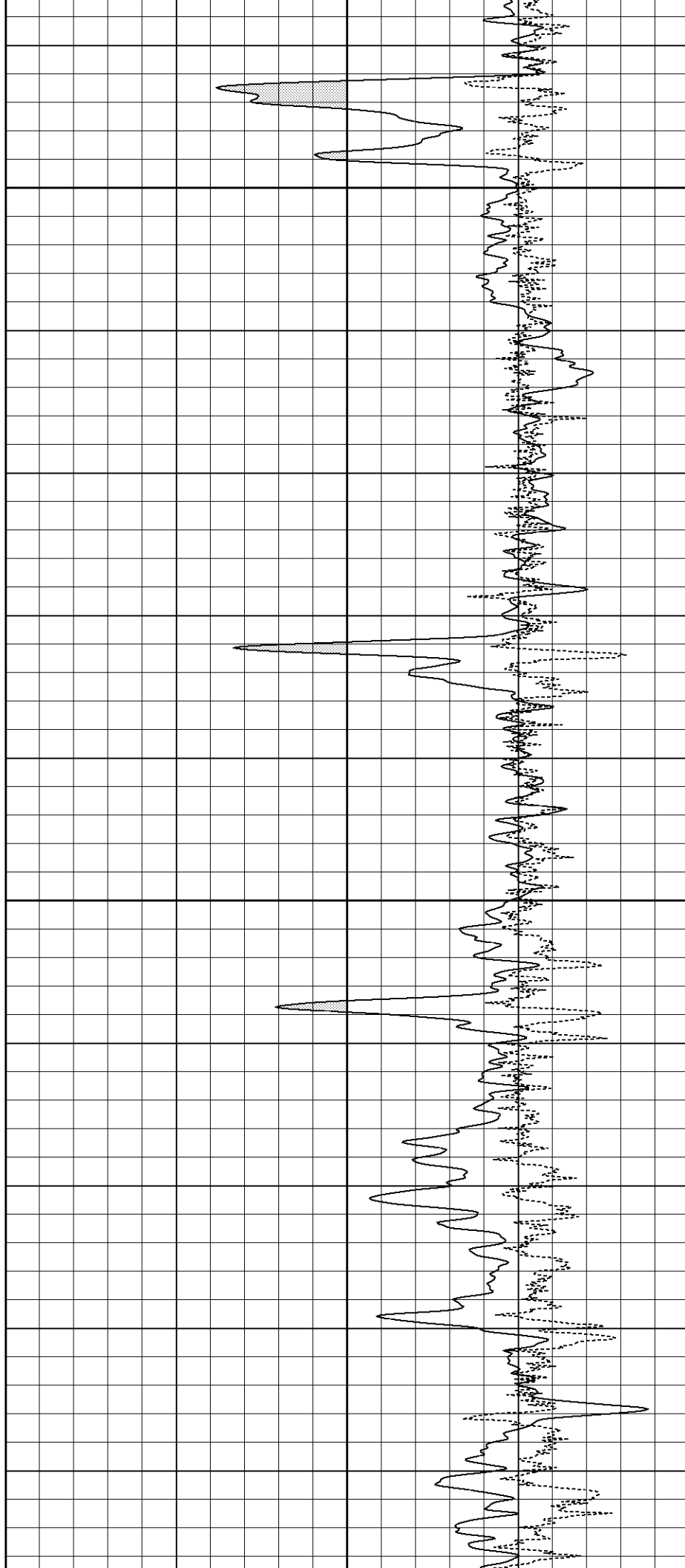
0	GR (GAPI)	200	1	RHOB (g/cc)	3
6	DCAL (in)	16	-0.5	RHOC (g/cc)	0.5

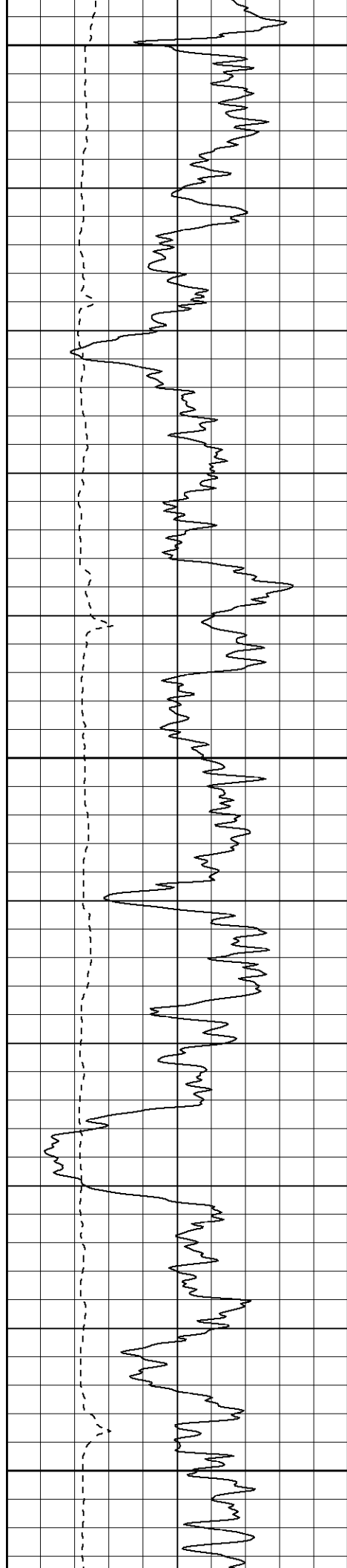




300

350

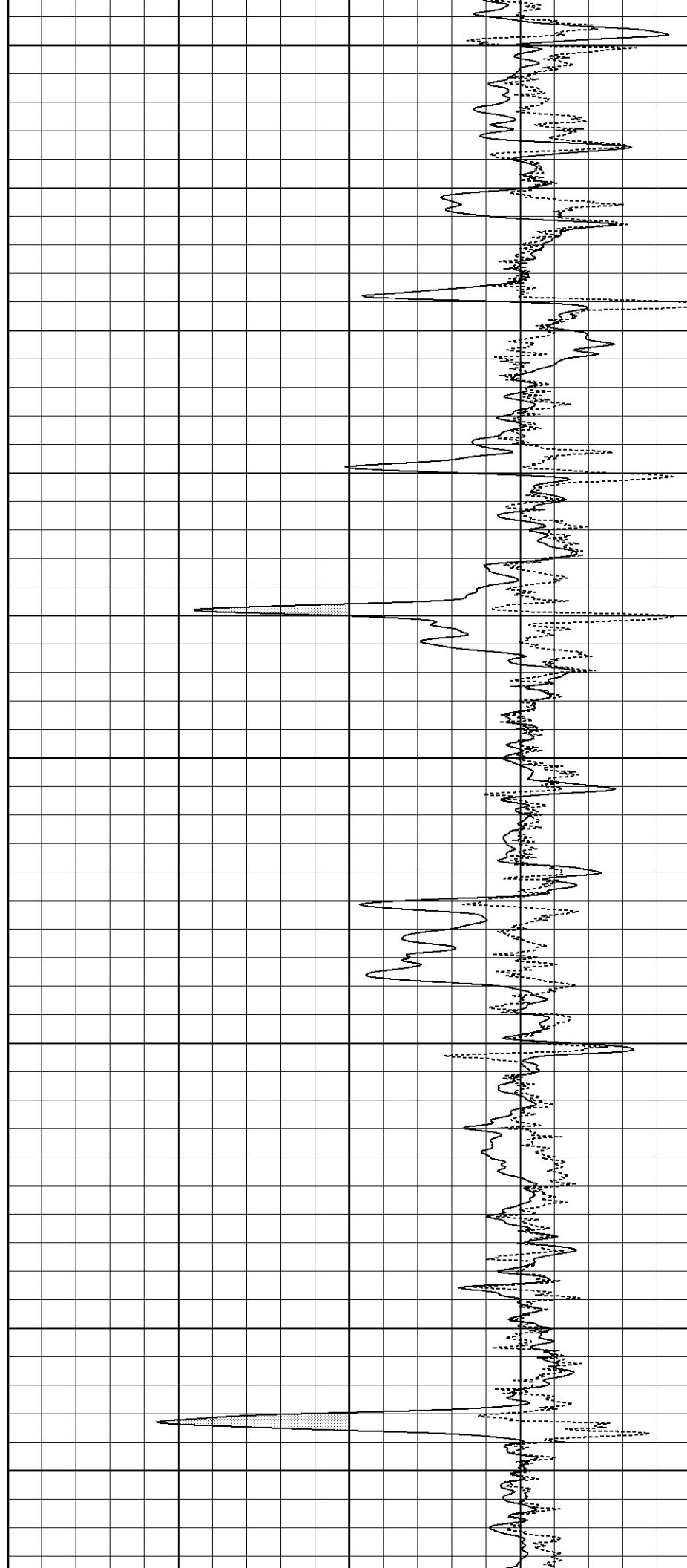


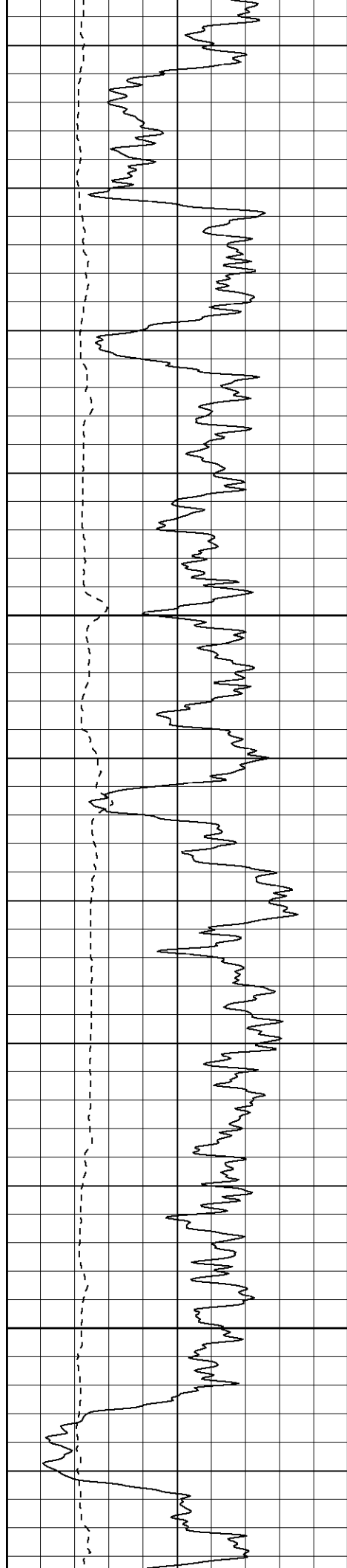


400

450

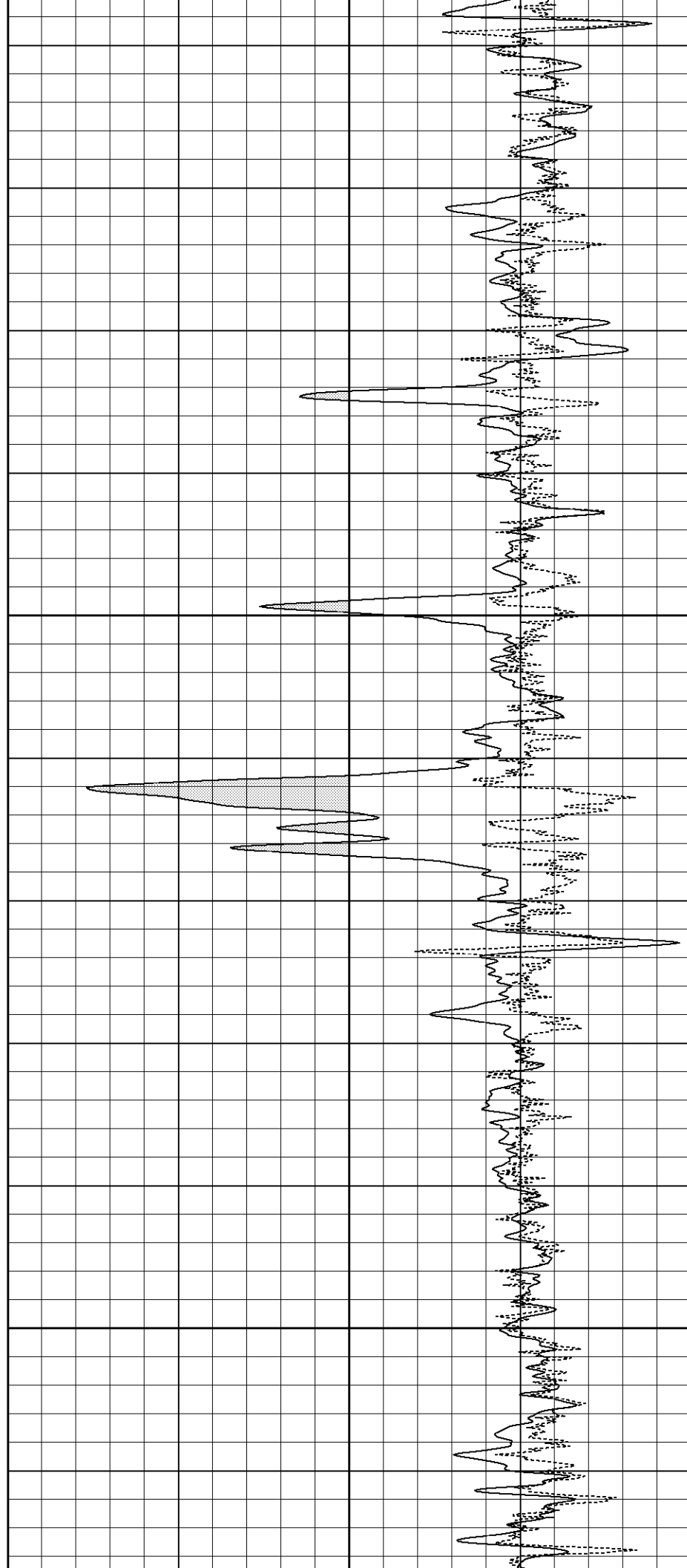
500

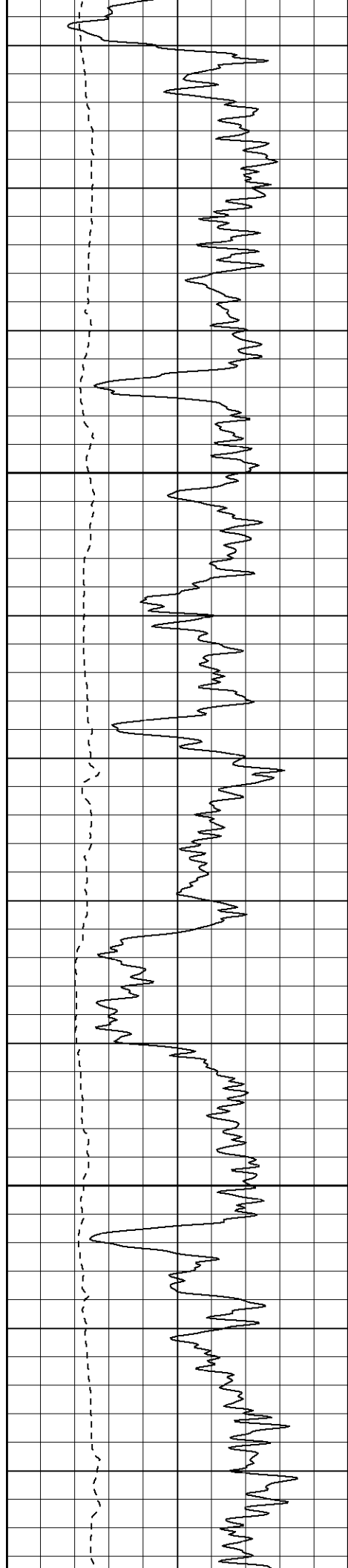




550

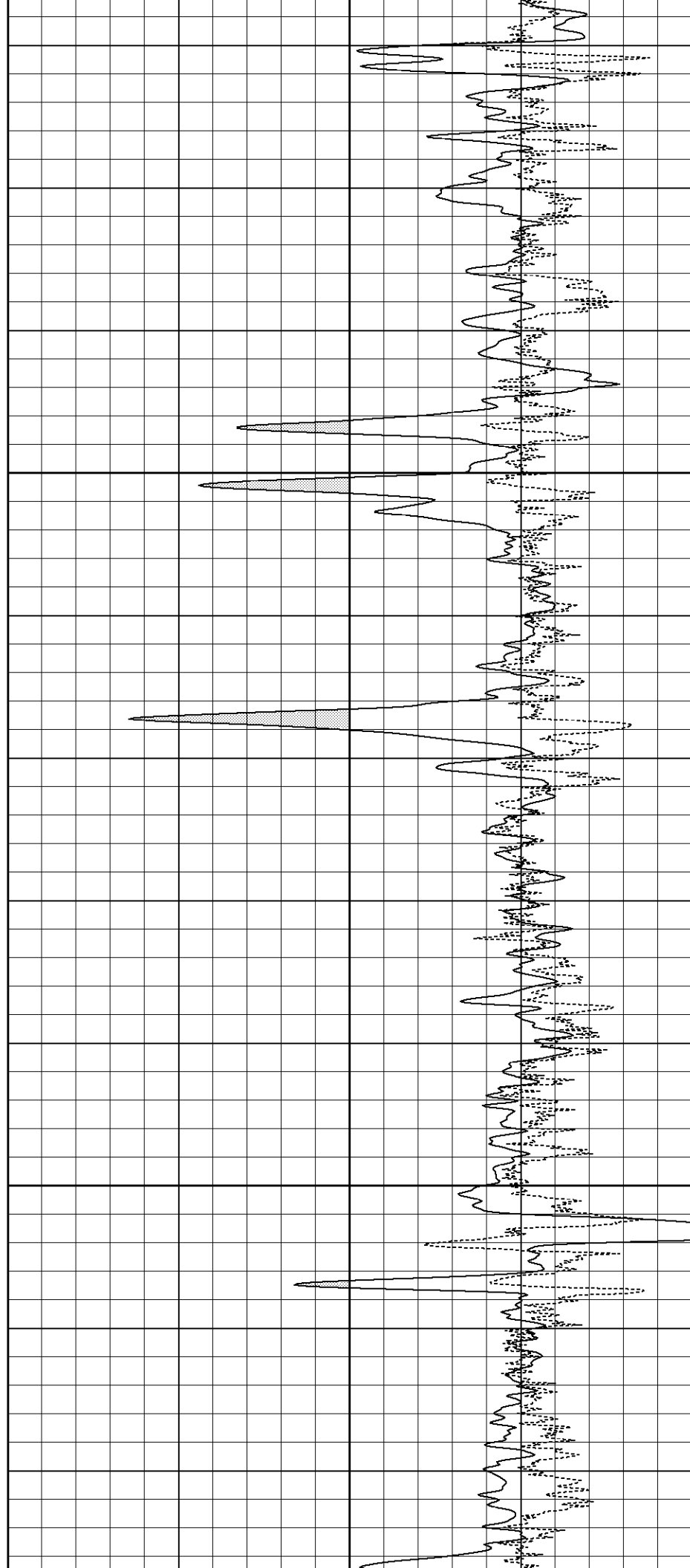
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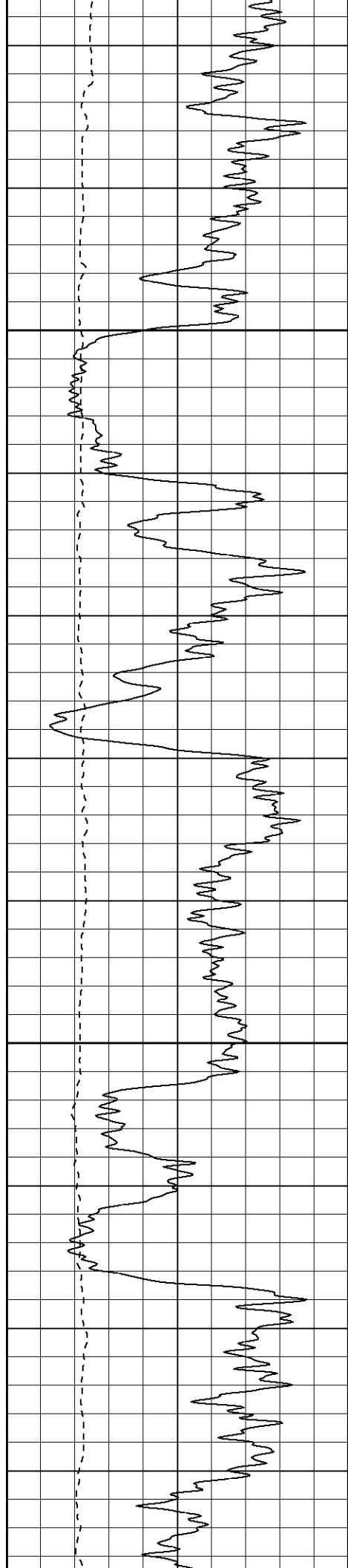




650

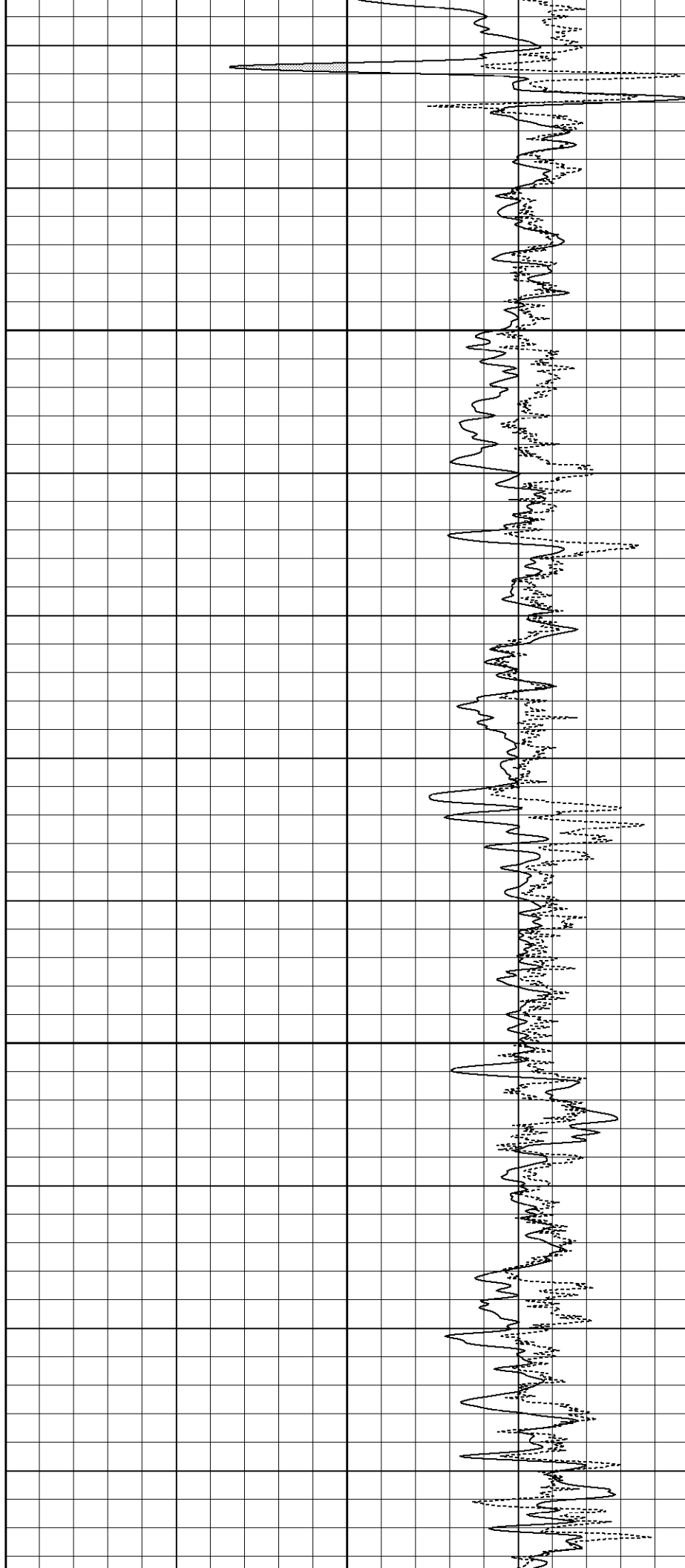
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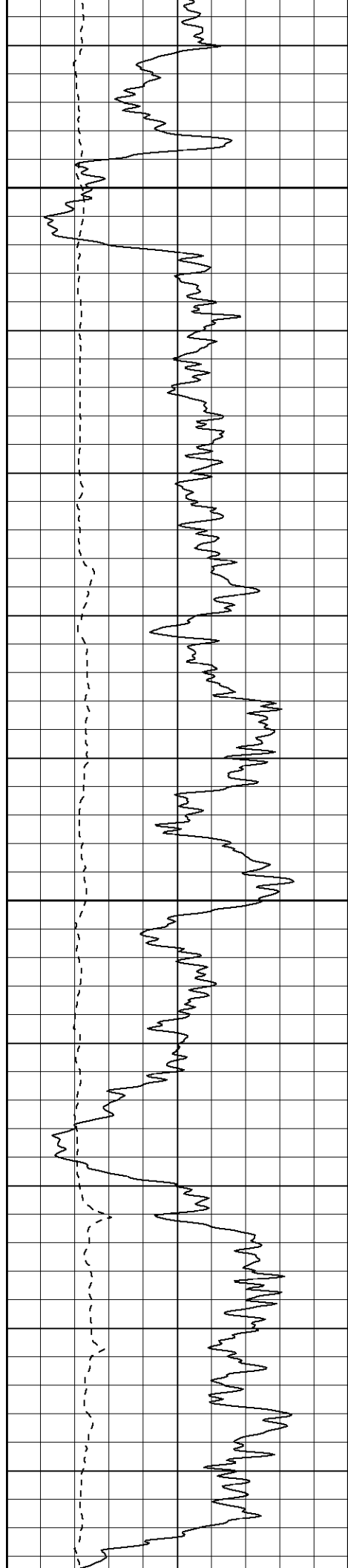




750

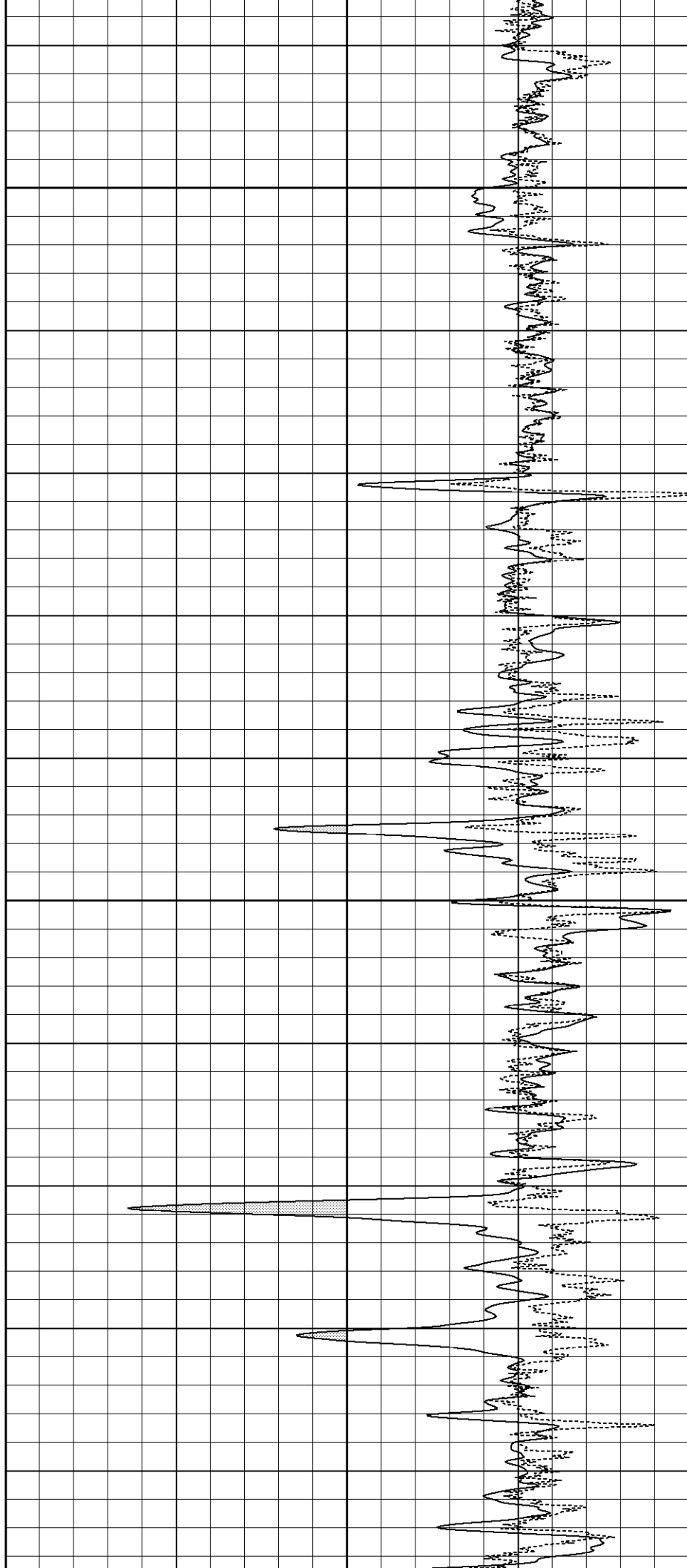
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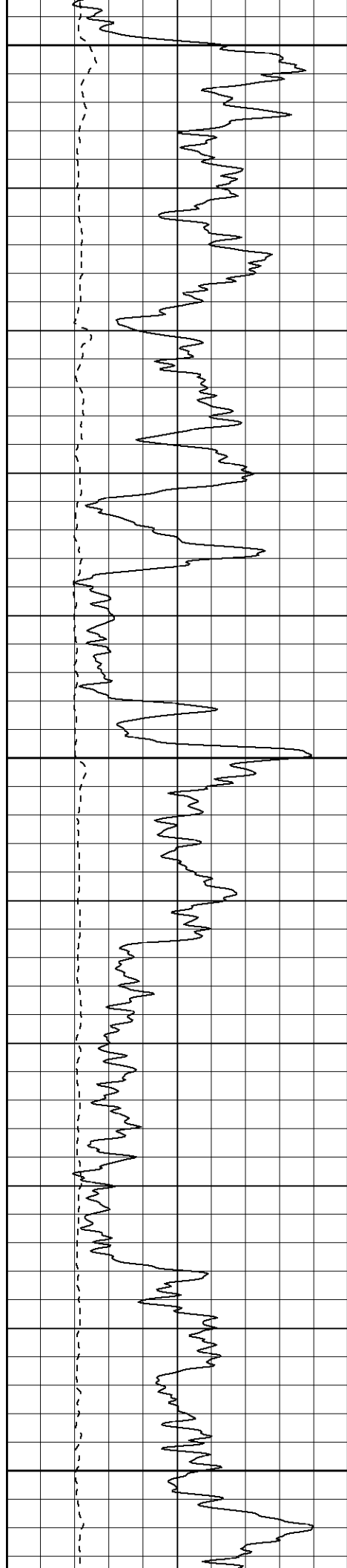




850

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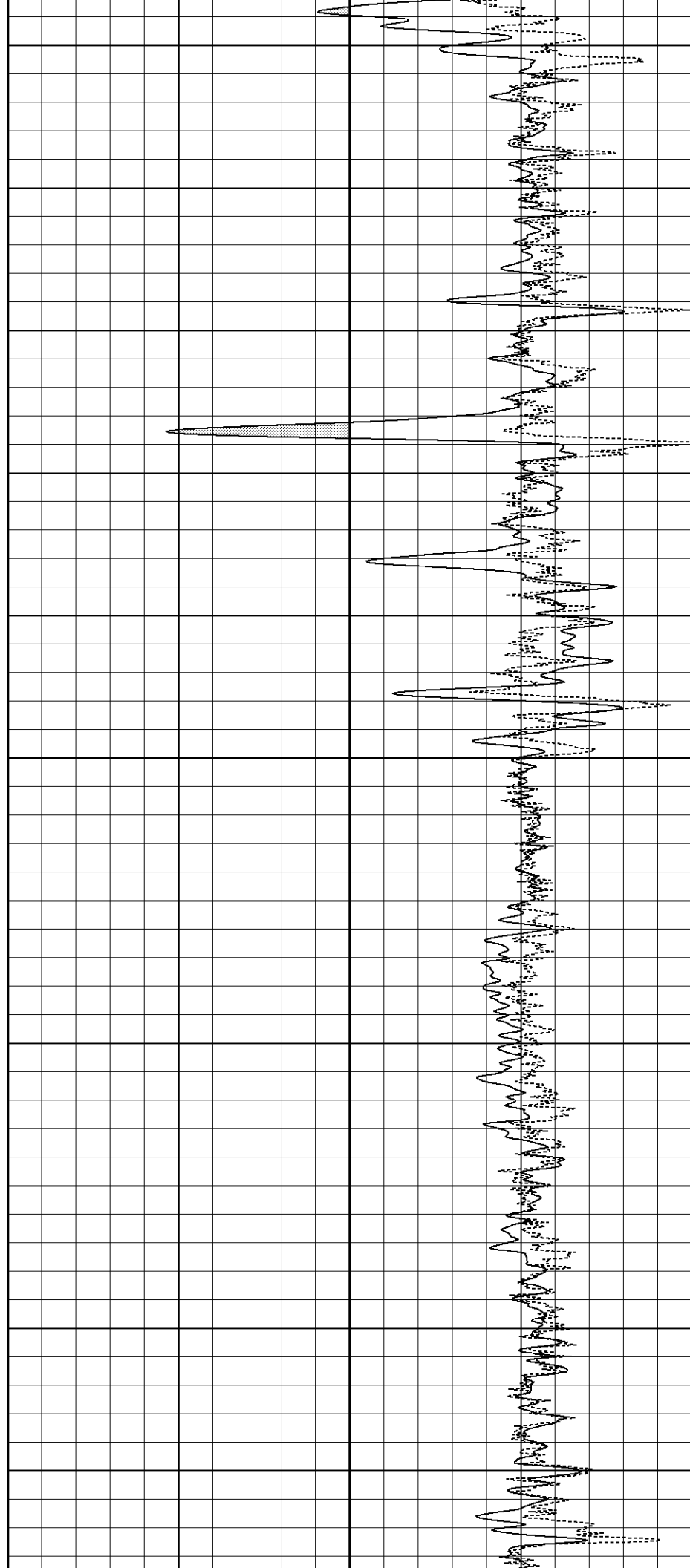


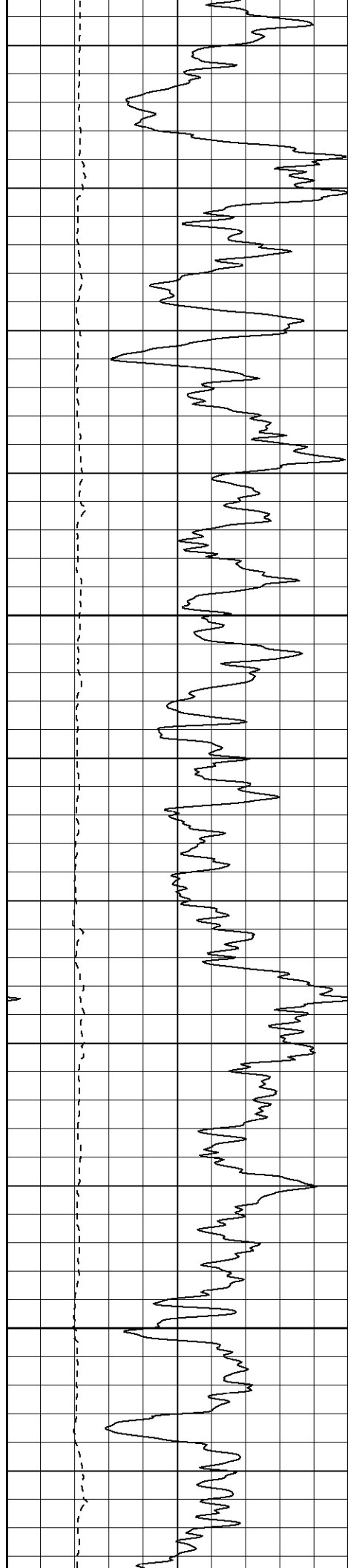


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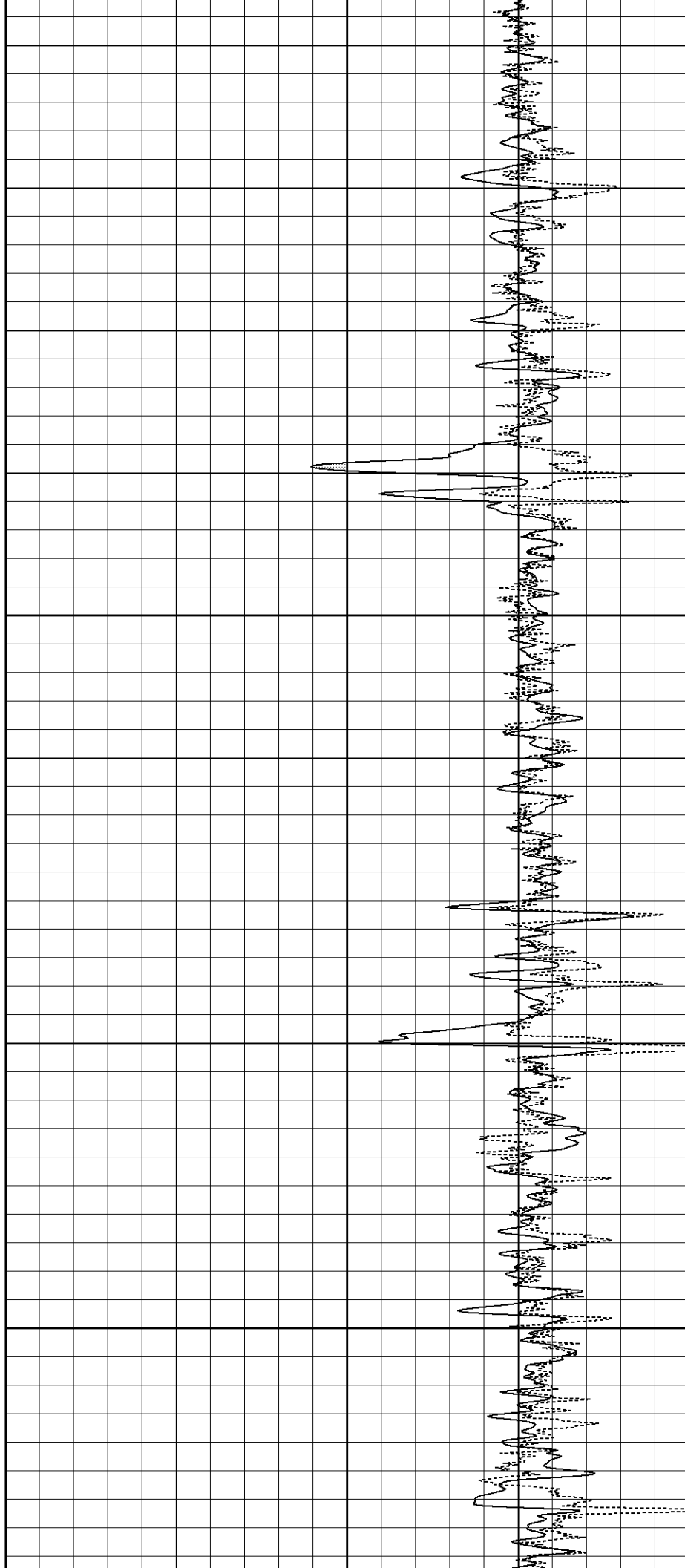
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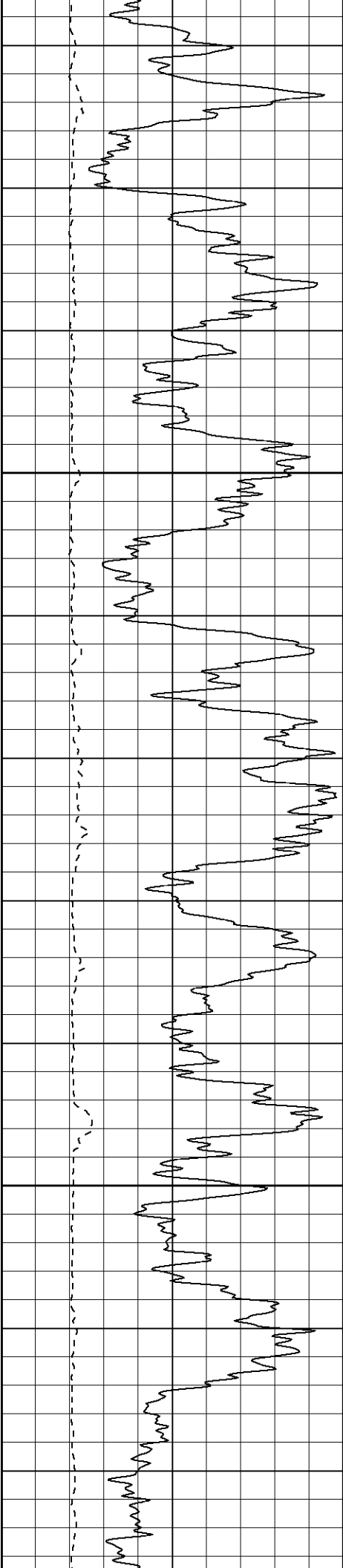




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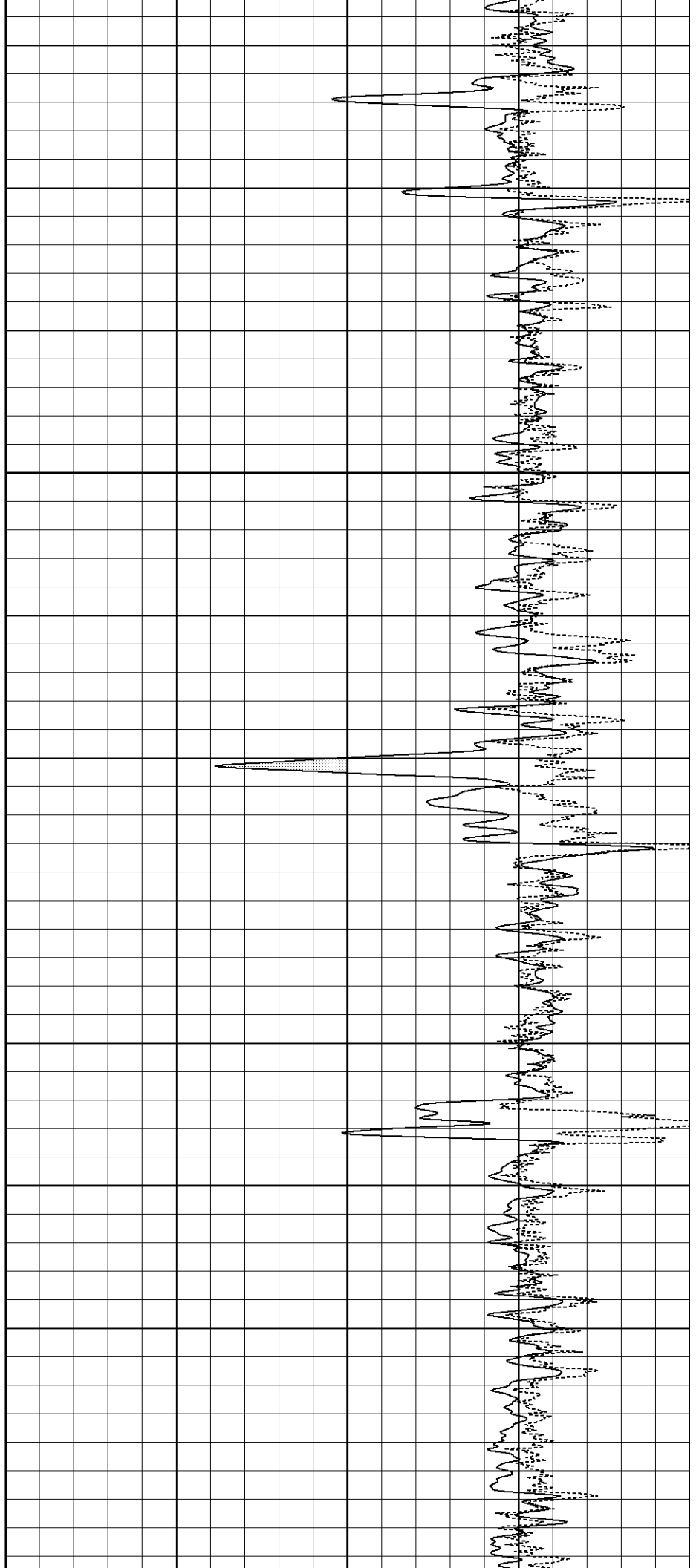
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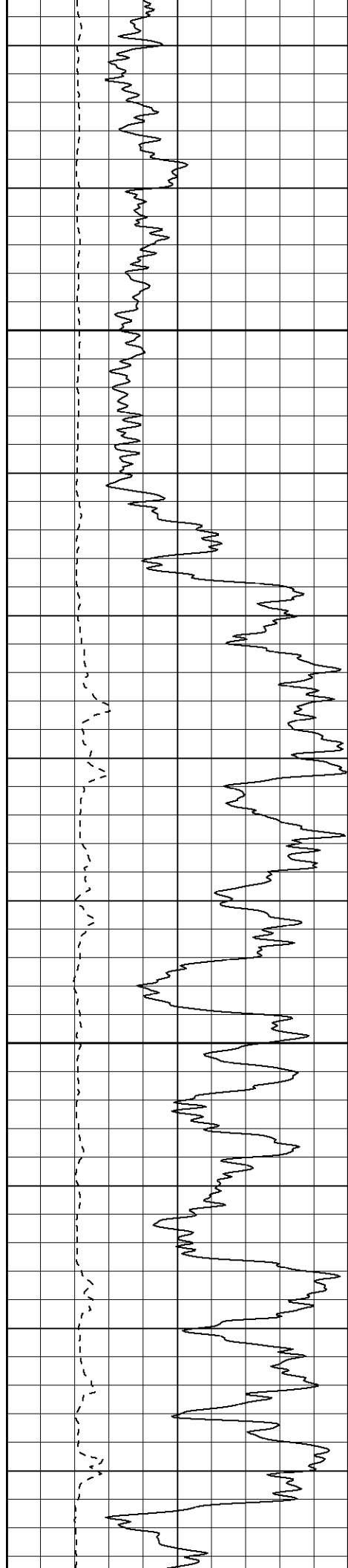




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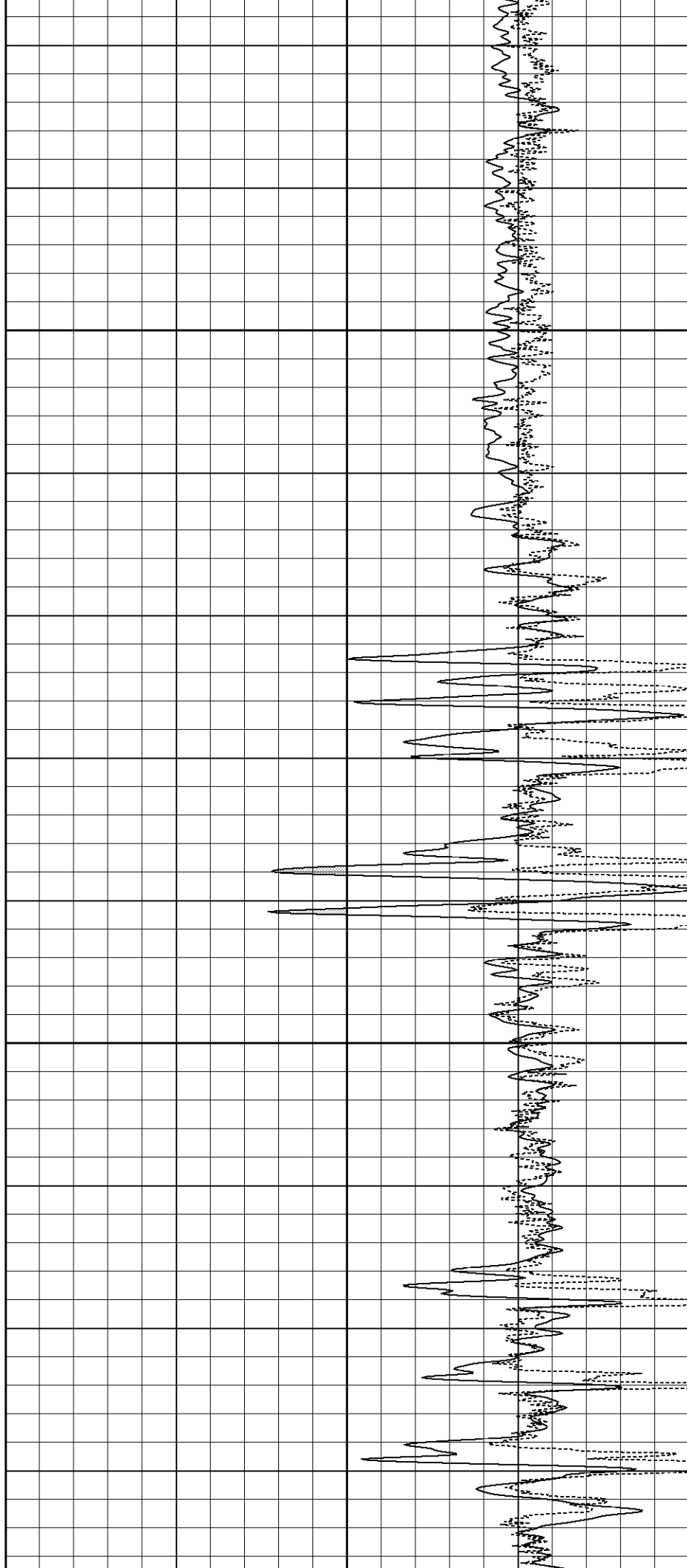
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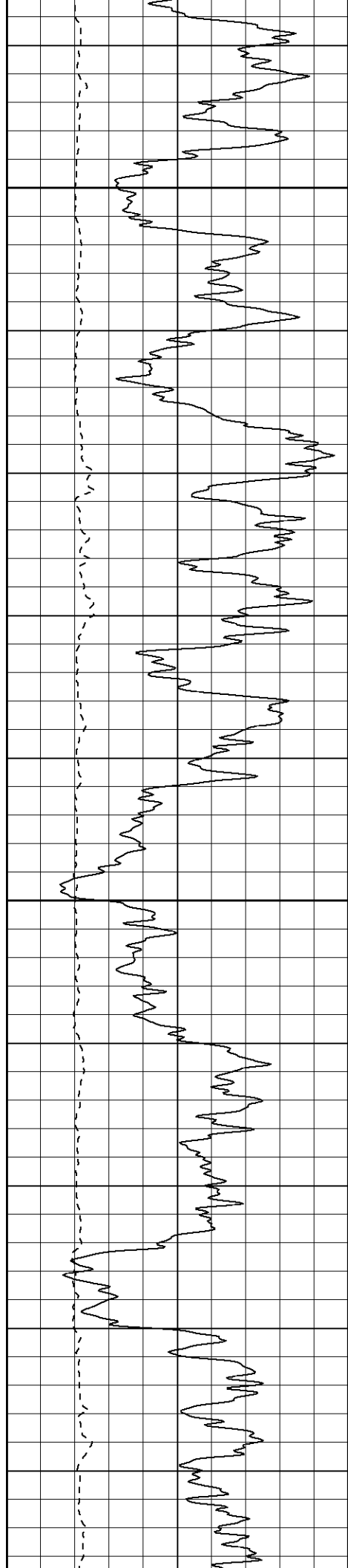




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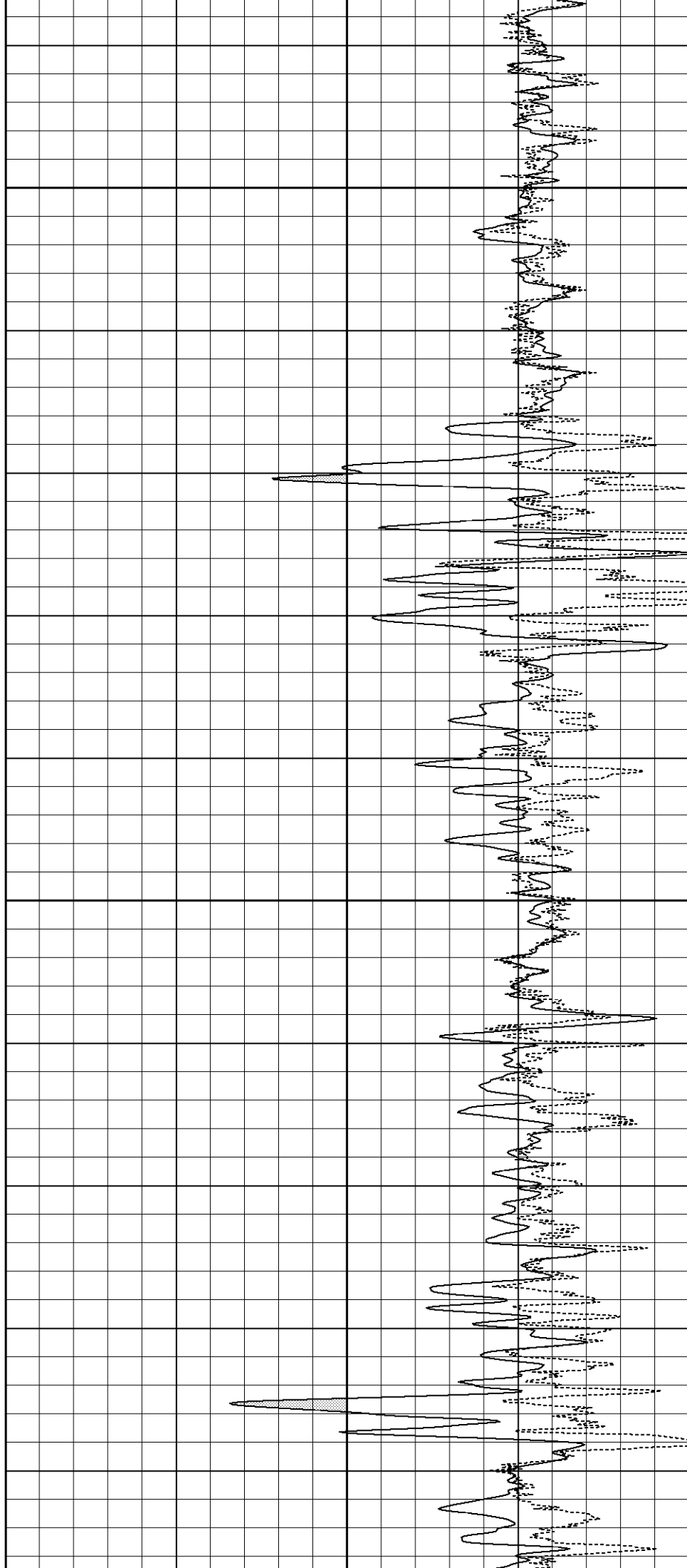
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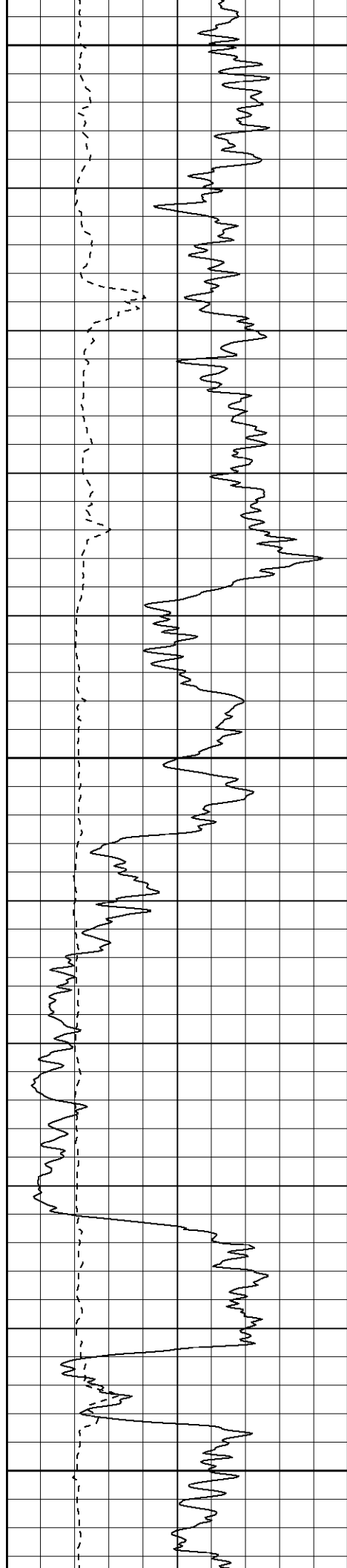




1400

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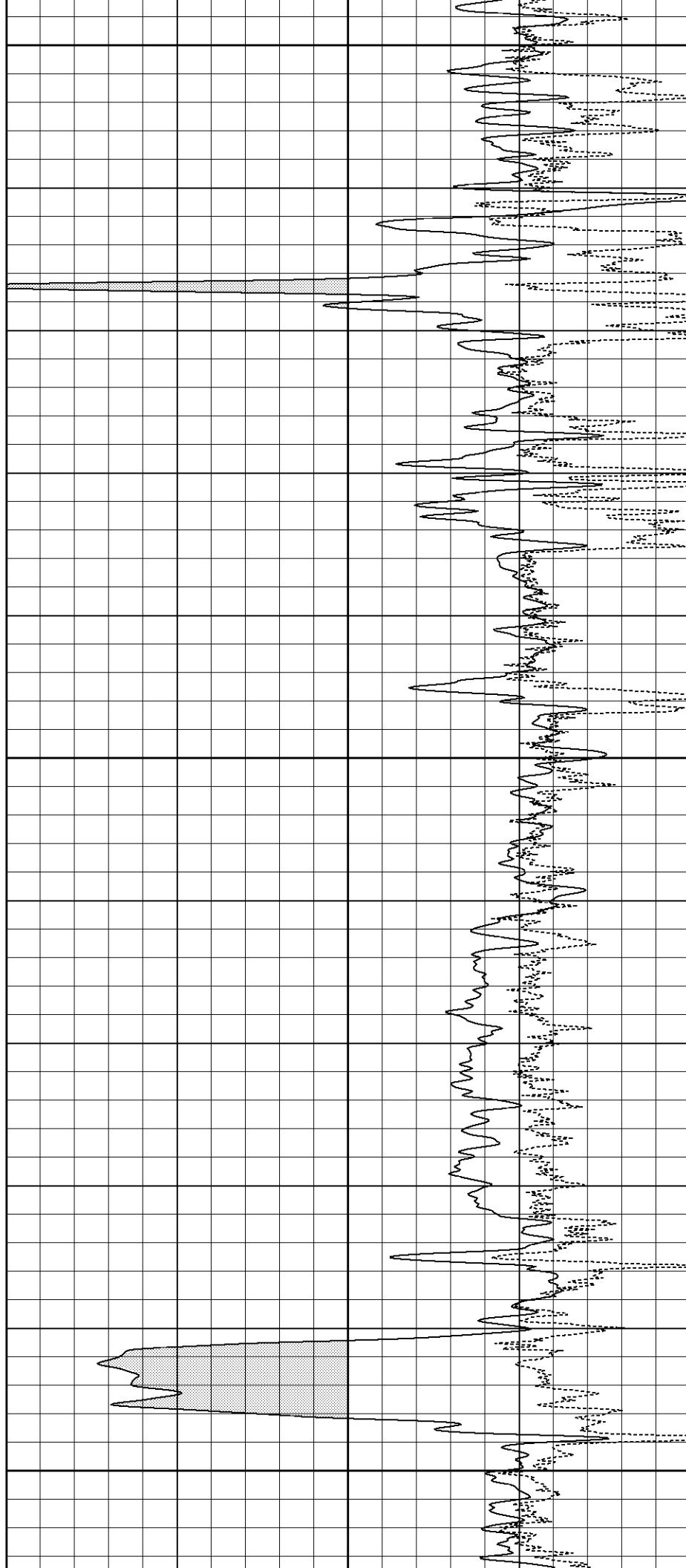


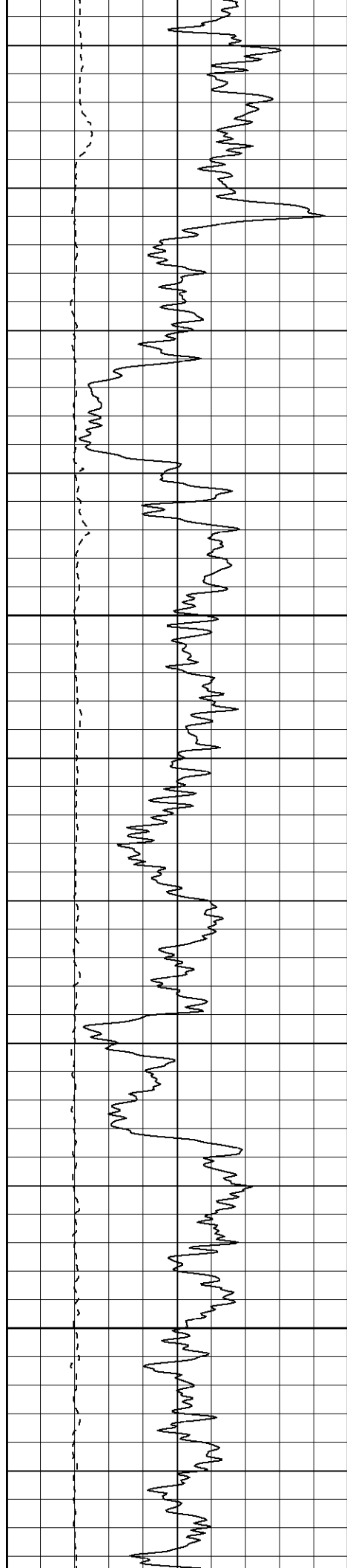


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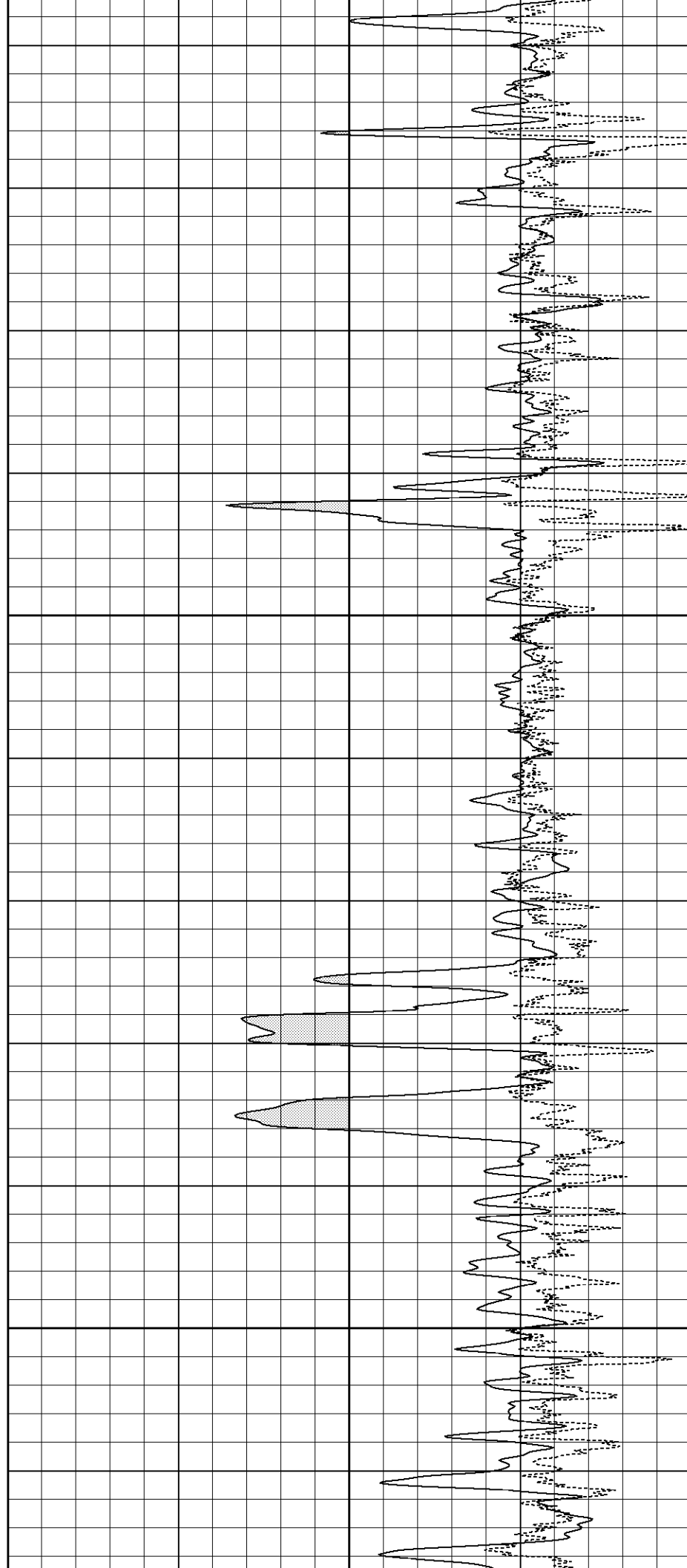
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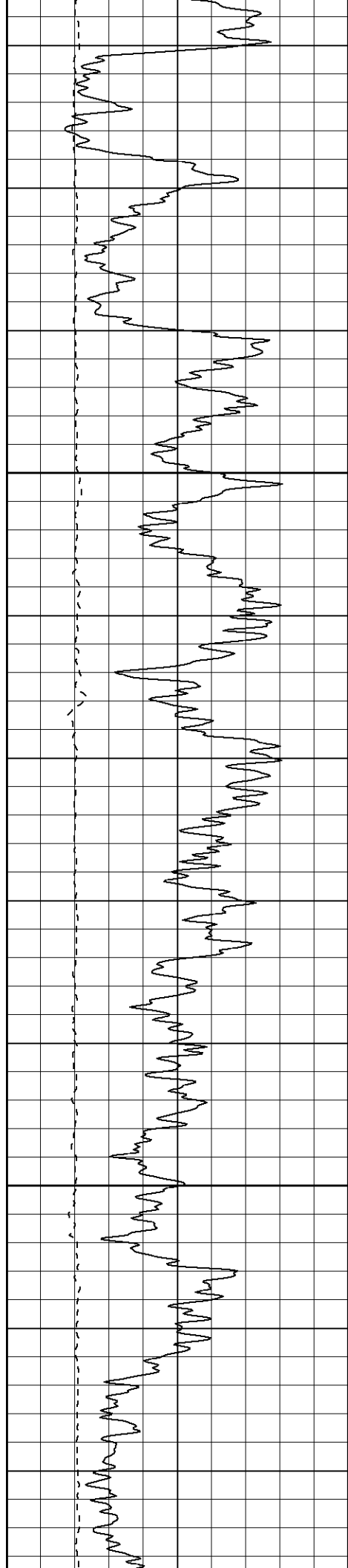




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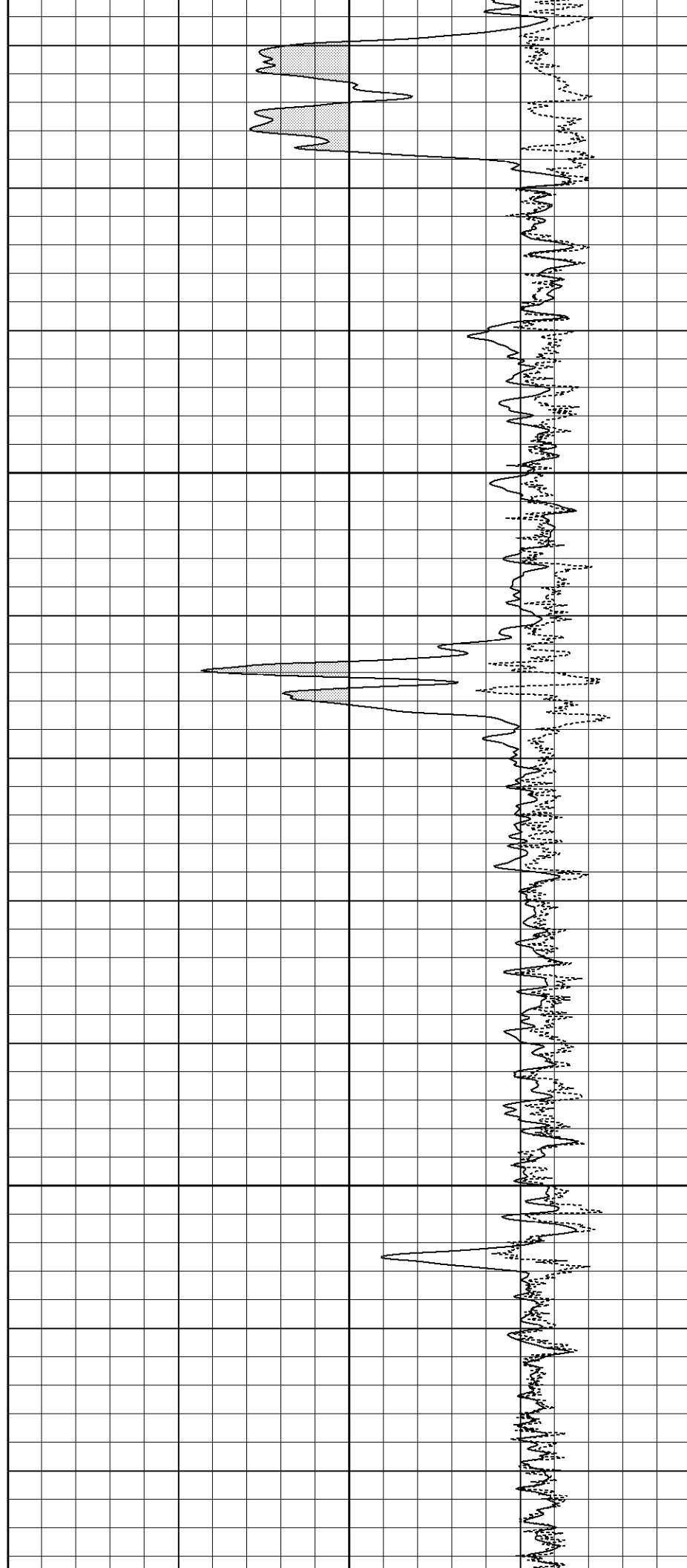
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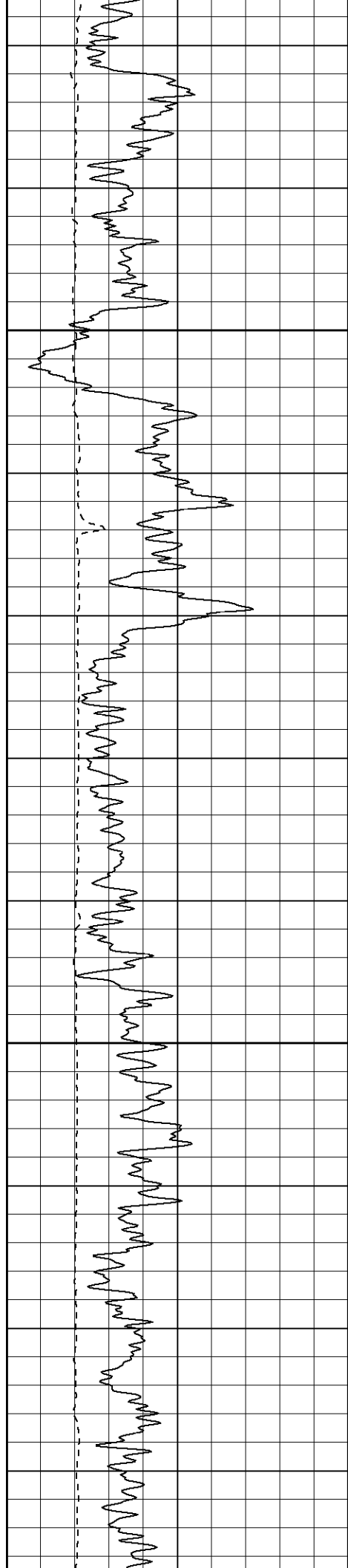




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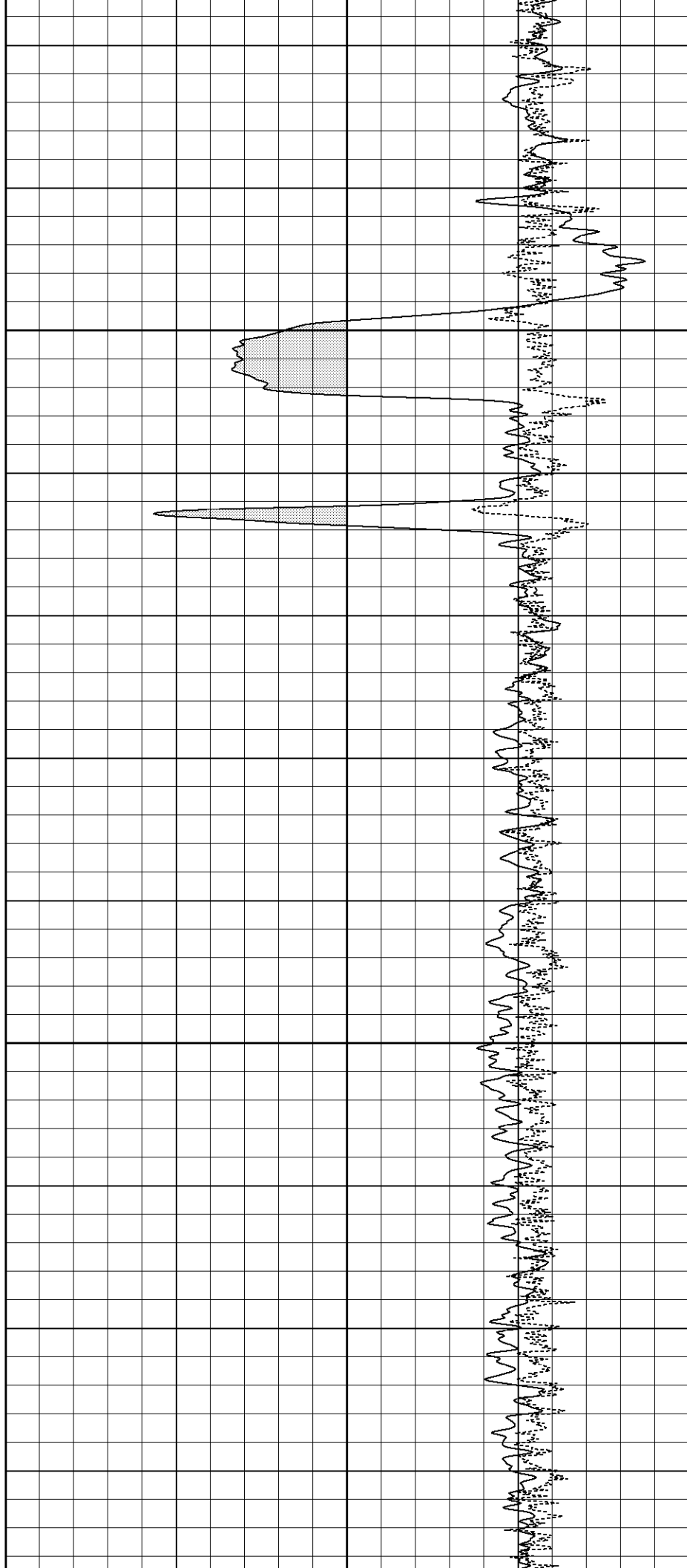
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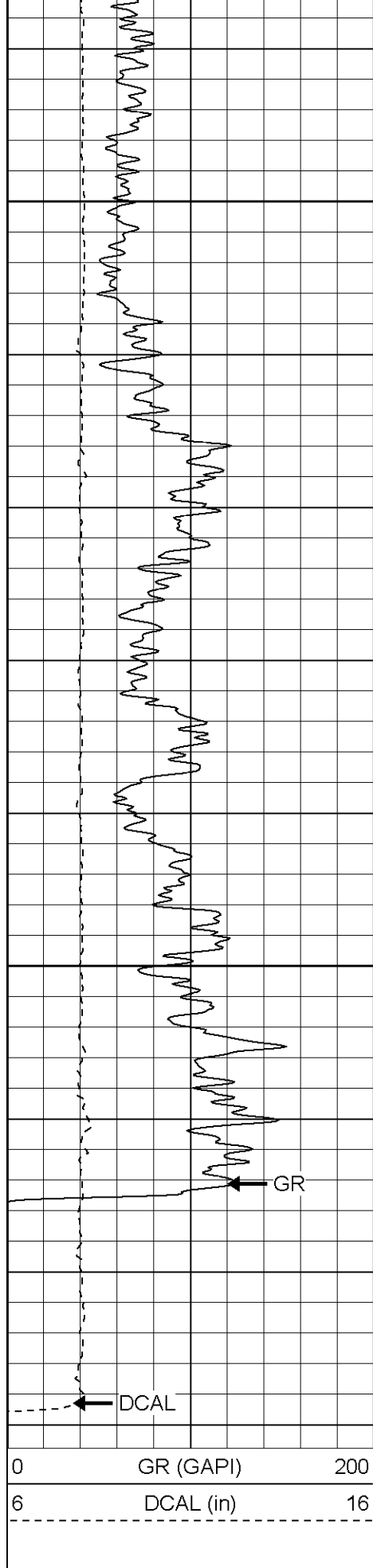




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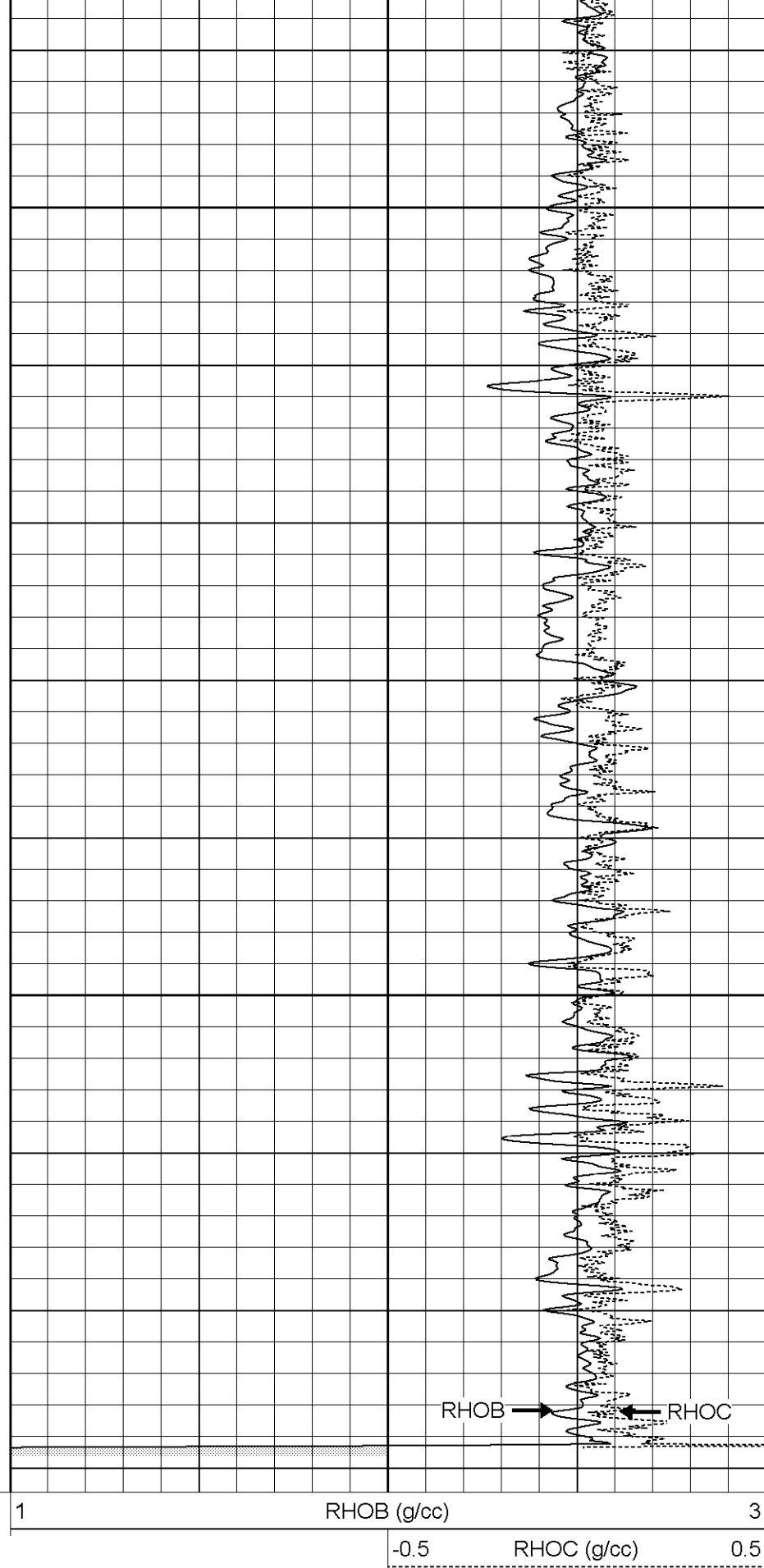
1900





1950

2000



2388-G
csv-j12 / blocks
Wed Sep 07 08:46:50 2005

Master Calibration


	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	831.48	469.26	cps
Aluminum	2.590	g/cc	189.85	333.47	cps
Spine Angle = 76.98			Density/Spine Ratio = 0.580		
	Size		Reading		
Small Ring	7.85	in	1.41	V	
Large Ring	14.00	in	4.56	V	

Gamma Ray Calibration Report

Serial Number:	2388OH	
Tool Model:	D	
Performed:	Wed Sep 14 23:56:02 2005	
Calibrator Value:	170.0	GAPI
Background Reading:	55.0	cps
Calibrator Reading:	201.0	cps
Sensitivity:	0.6000	GAPI/cps

Neutron Calibration Report

Serial Number:	5138	
Tool Model:	G	
Performed:	Tue Sep 20 21:10:06 2005	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CHD	15.92		None	0.75	1.50	5.00
NEU	14.12		NEU-G (5138) Gearhart Epithermal	5.75	3.50	85.00
GR	8.92		GR-D (2388OH) Gearhart	2.50	3.63	74.00
LSD	2.83		CDL-G (2388) Gearhart	6.92	4.00	201.00
DCAL	2.50					
SSD	2.25					

Dataset:	/field/well/run1/_plots/_jobs_/cdl
Total Length:	15.92 ft
Total Weight:	365.00 lb
O.D.	4.00 in

