

Patterson

**COMPENSATED DENSITY
NEUTRON
LOG**

Company	Pioneer Natural Resources	Company	Pioneer Natural Resources
Well	Jamabeen 42-14	Well	Jamabeen 42-14
Field	Purgatoire River	Field	Purgatoire River
County	Las Animas	County	Las Animas
State	Colorado	State	Colorado
Location:	API # : 05 071 08543 00 1937' FNL & 571' FEL	Other Services	SIL
Permanent Datum	SEC 14 TWP 33S RGE 66W	Elevation	
Log Measured From	Ground Level	K.B. 7294'	
Drilling Measured From	Kelly Bushing 4' Above G.L.	D.F. -----	
	Kelly Bushing	G.L. 7290'	
Date	10-05-05		
Run Number	Two		
Depth Driller	1900'		
Depth Logger	1908'		
Bottom Logged Interval	1906'		
Top Log Interval	Surface		
Casing Driller	8 5/8" @ 487'		
Casing Logger	486'		
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	5:30 A.M.		
Time Logger on Bottom	10:45 A.M.		
Maximum Recorded Temperature	98 DEG F		
Equipment Number	T720		
Location	Trinidad		
Recorded By	M. Norton		
Witnessed By	Mr. Jack Wiseman		

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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:

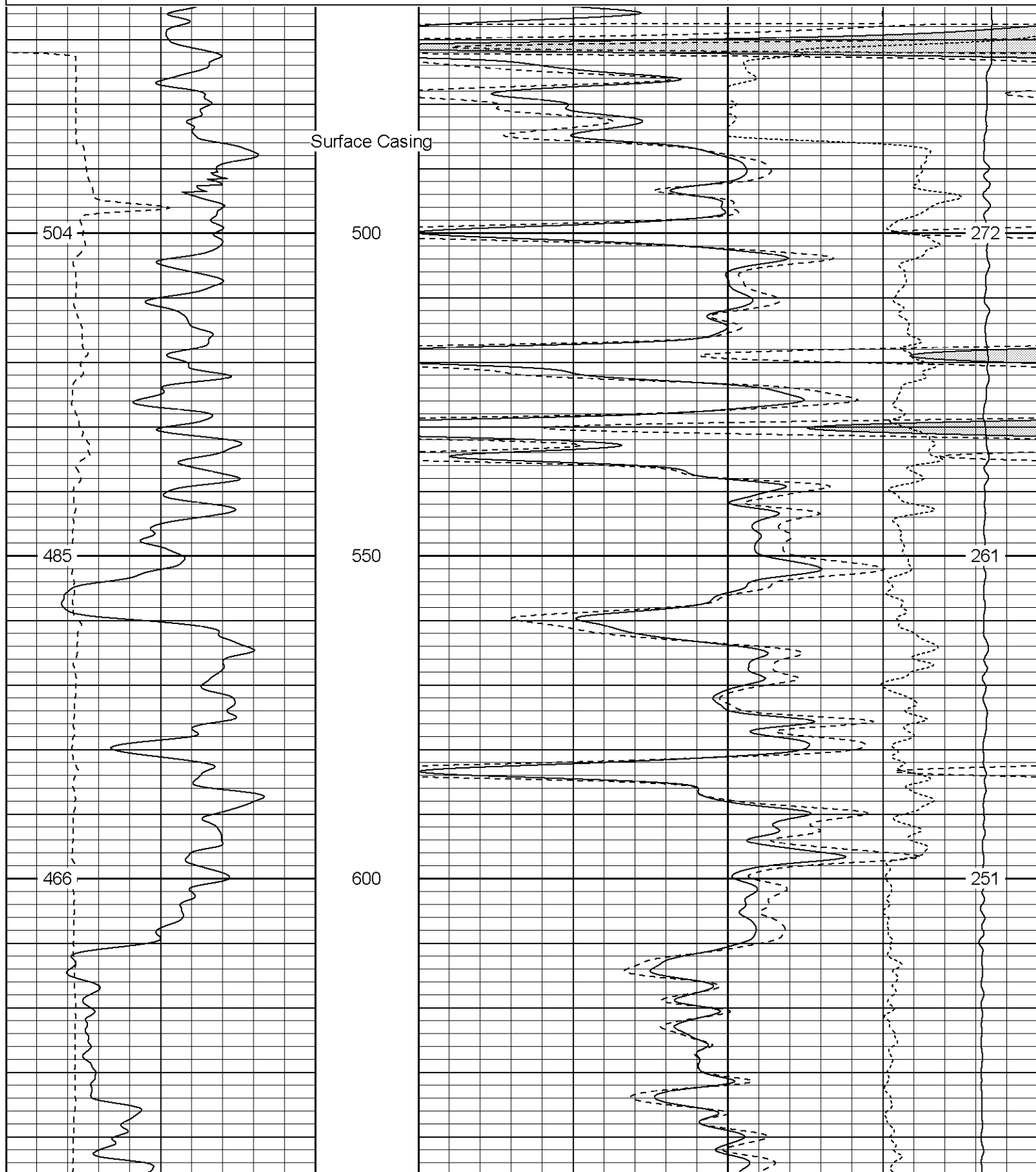
Turn Right Off Highway Twelve Just Past Segundo To Primero Ranches(gate combo 1397),
Stay On Main Road Past Compressor, At T Turn Right,
Second Right Past Switch Back To Location.

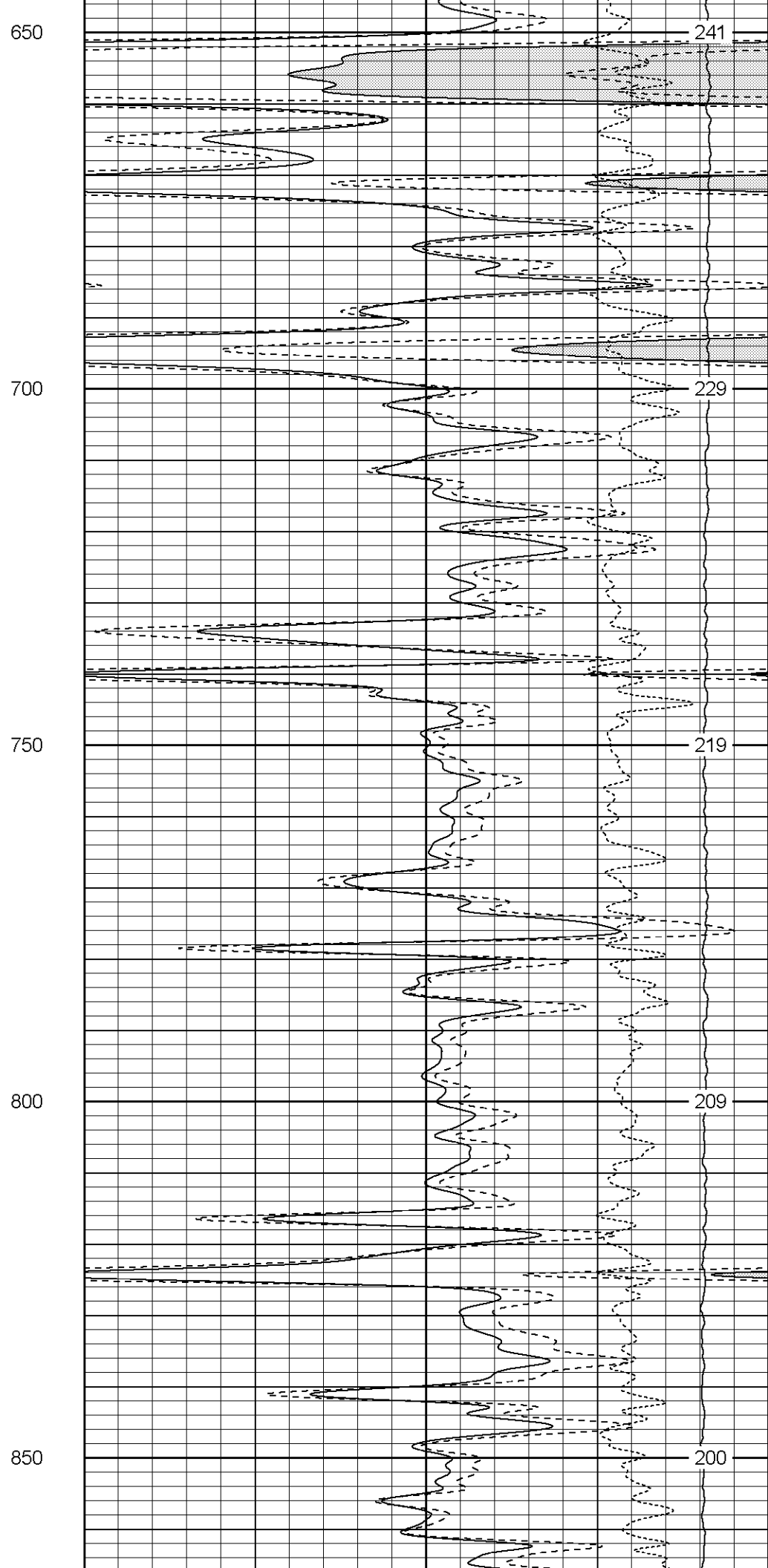
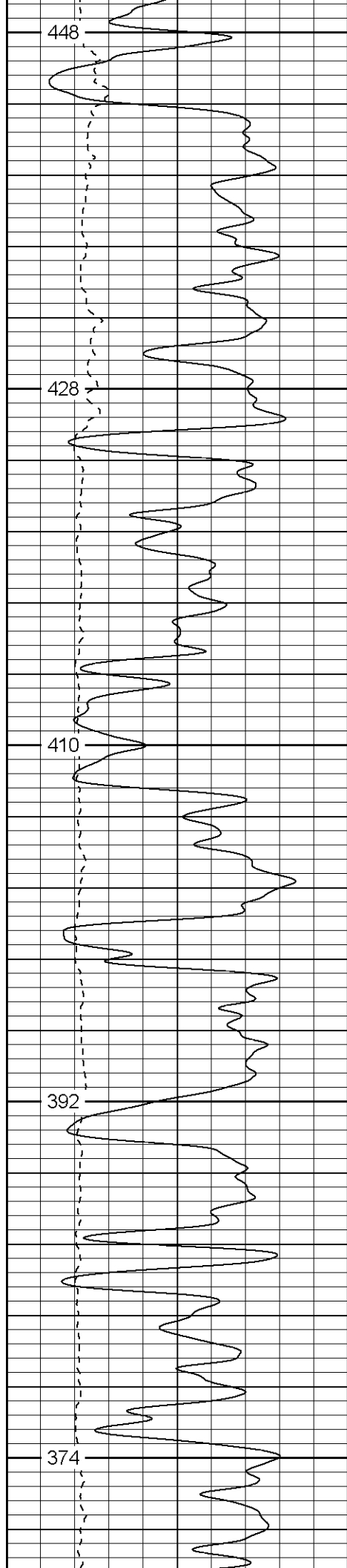
Patterson

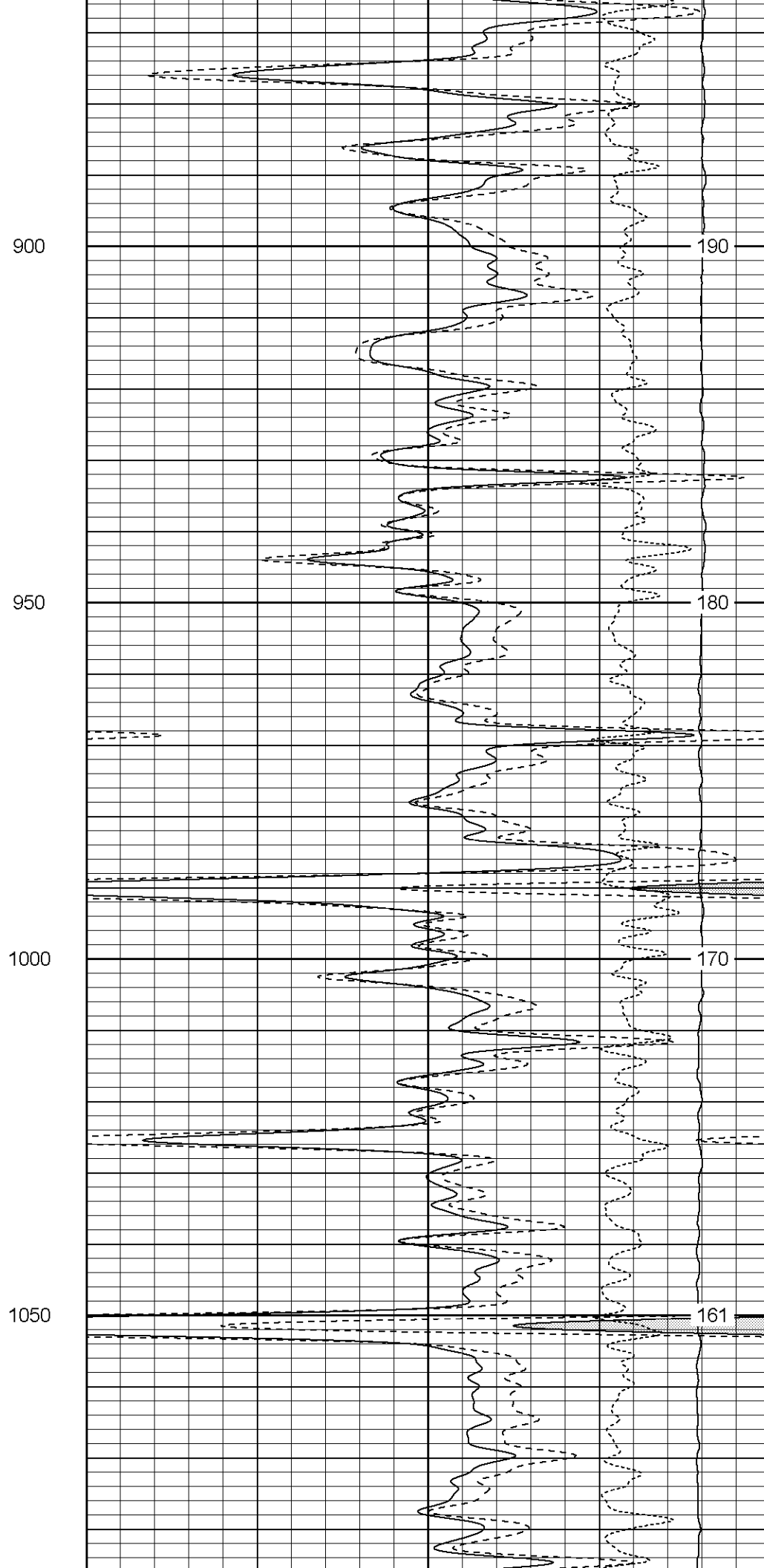
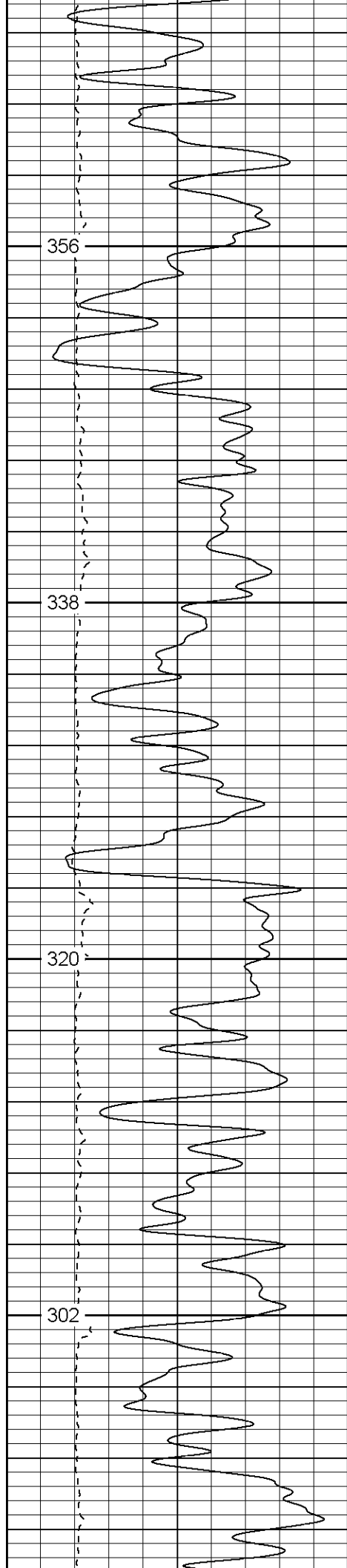
Main Pass

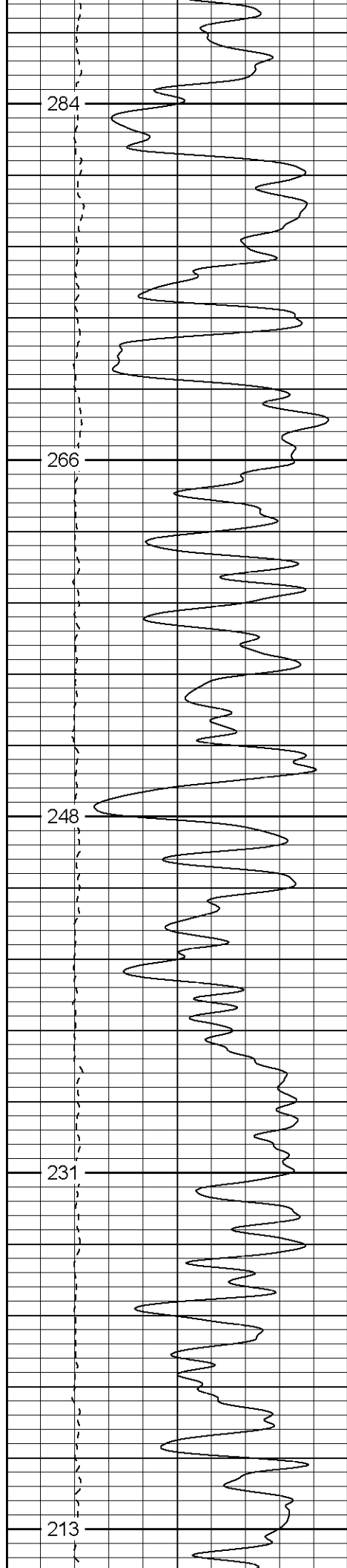
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Dataset Pathname: pass4.1
Presentation Format: cdl
Dataset Creation: Wed Oct 05 12:02:08 2005 by Calc Warrior 7.0 STD Ope
Charted by: Depth in Feet scaled 1:240

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		









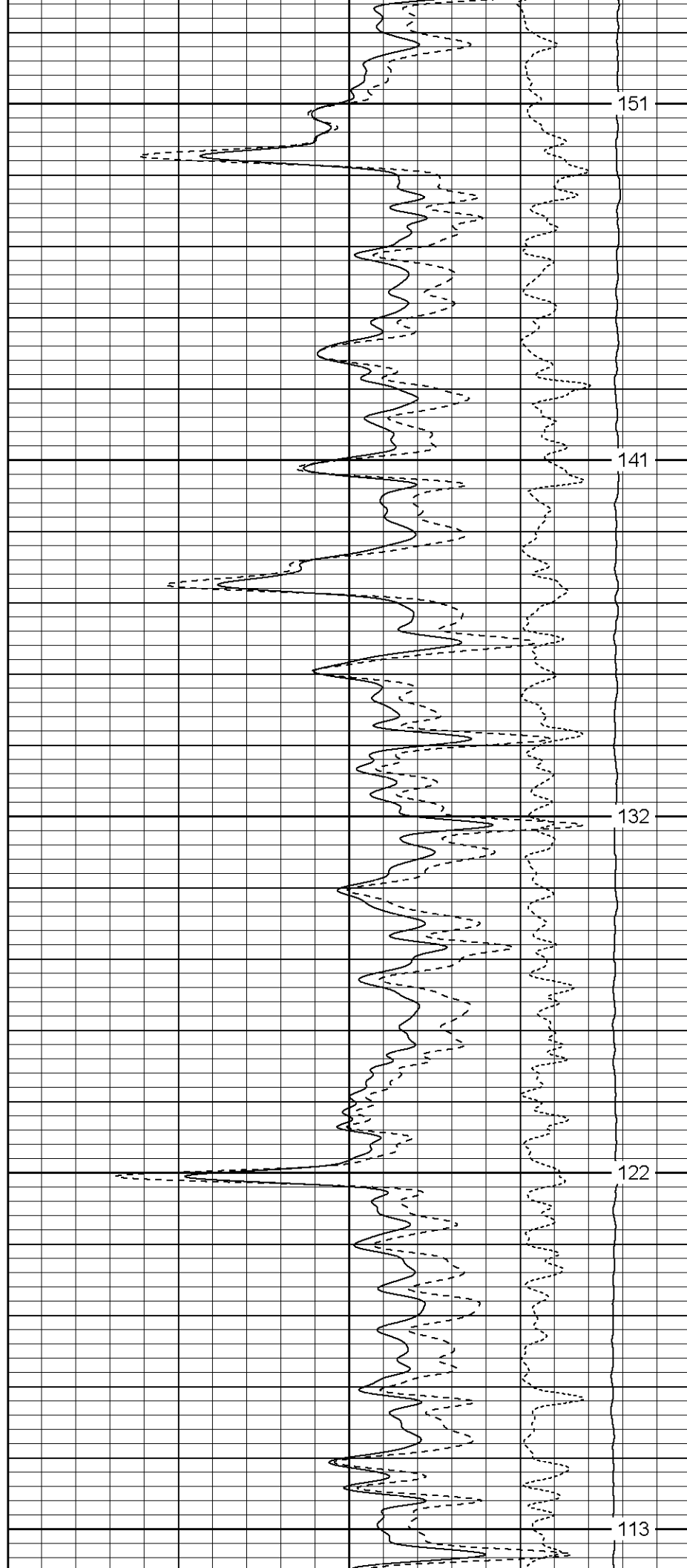
1100

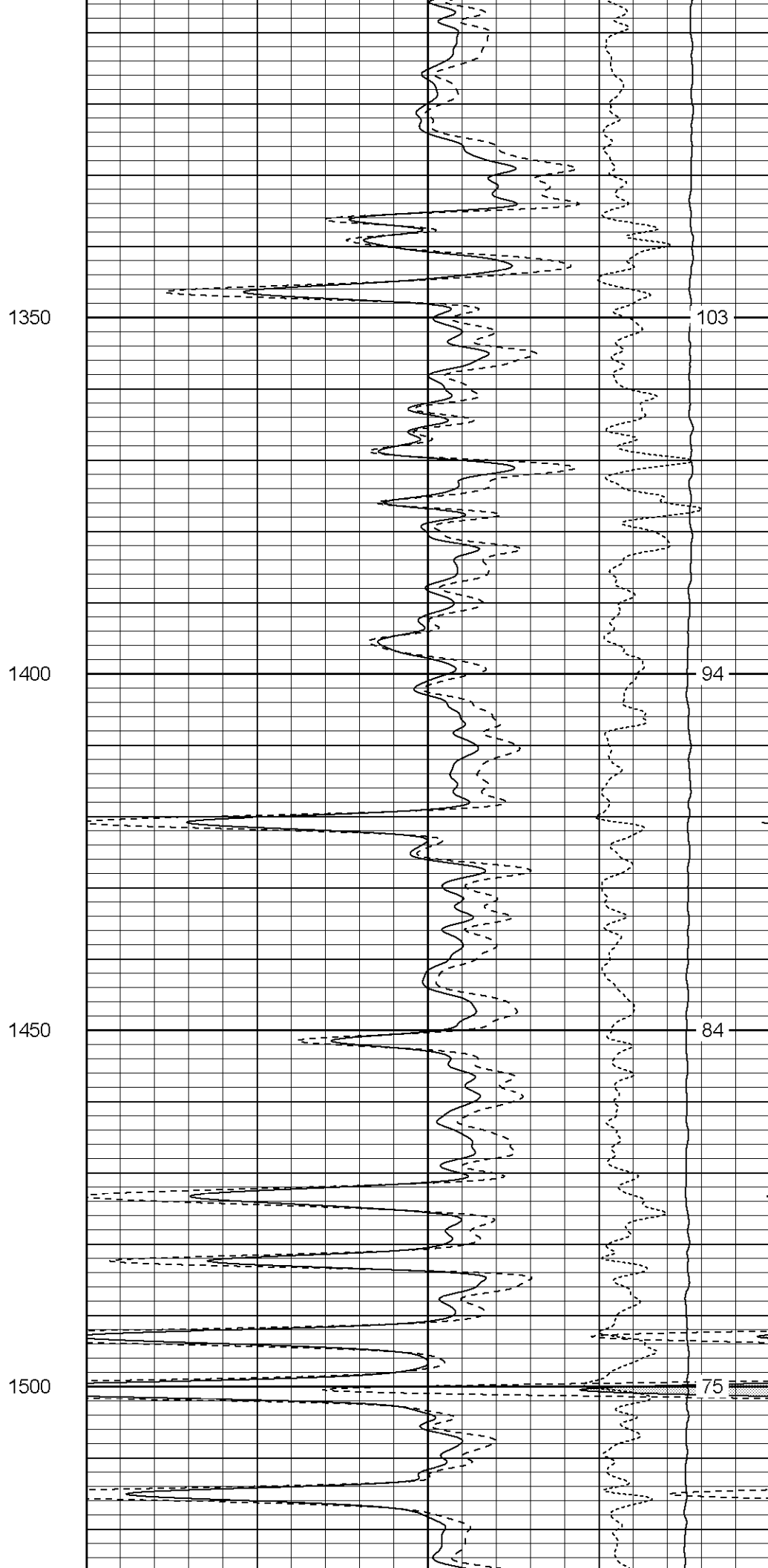
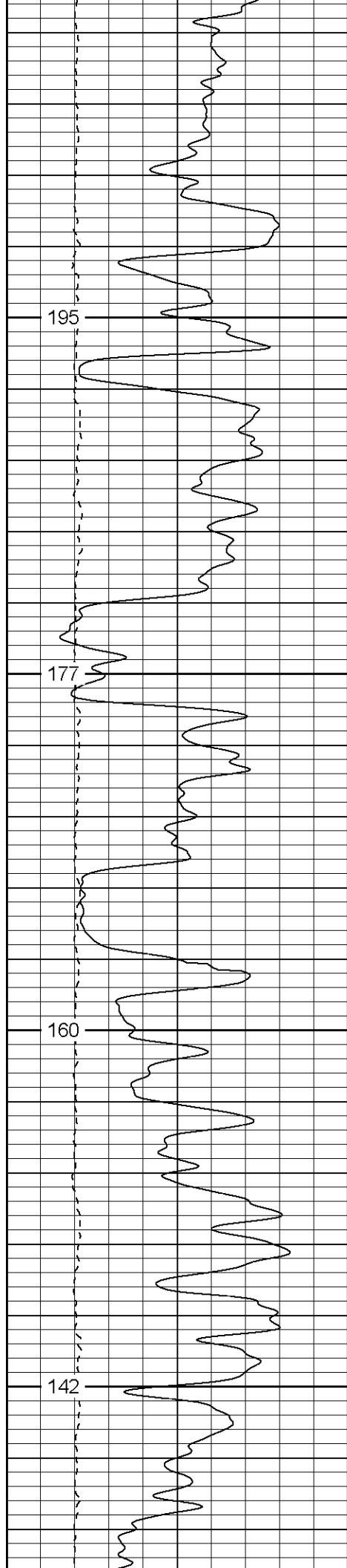
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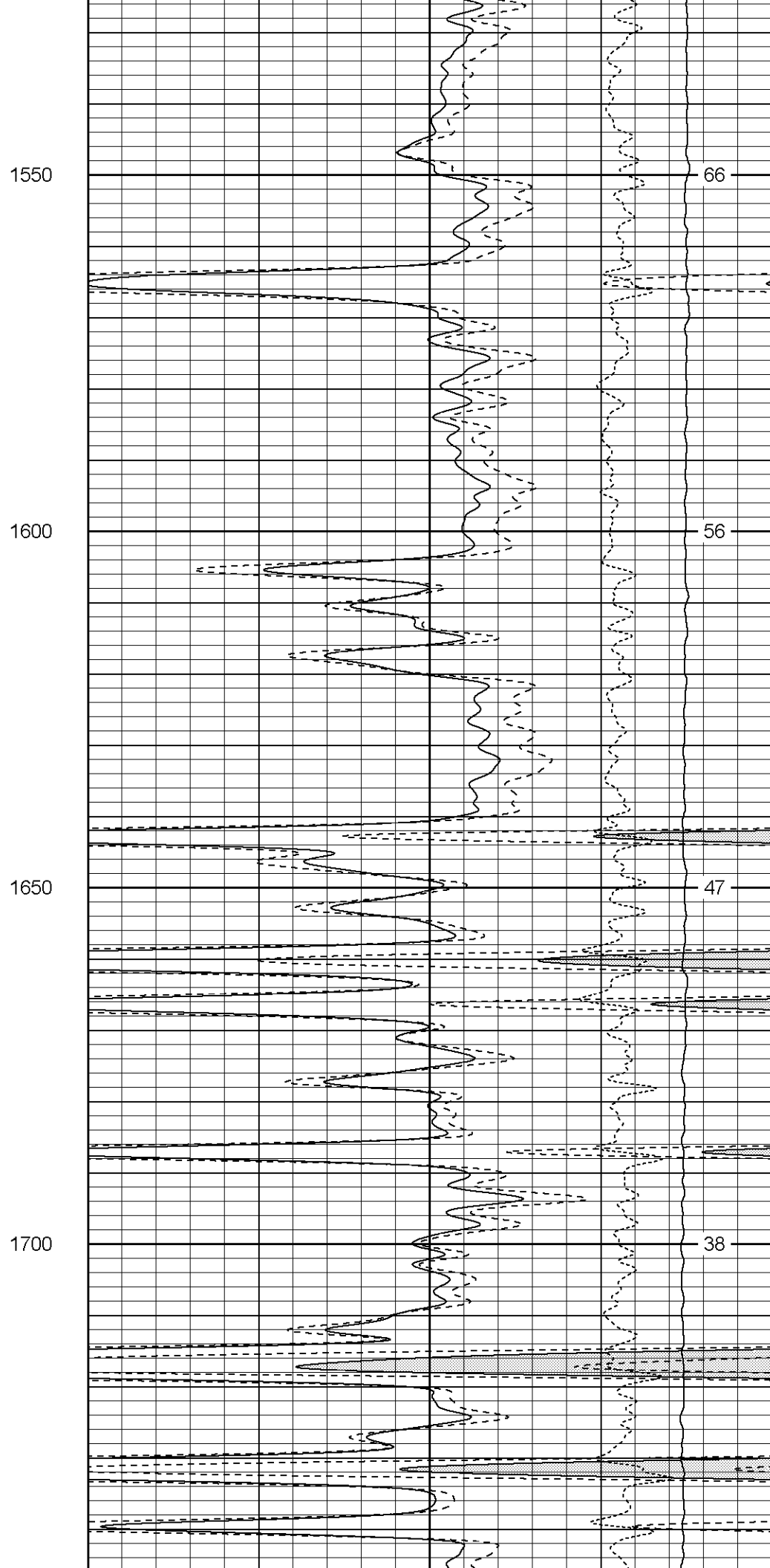
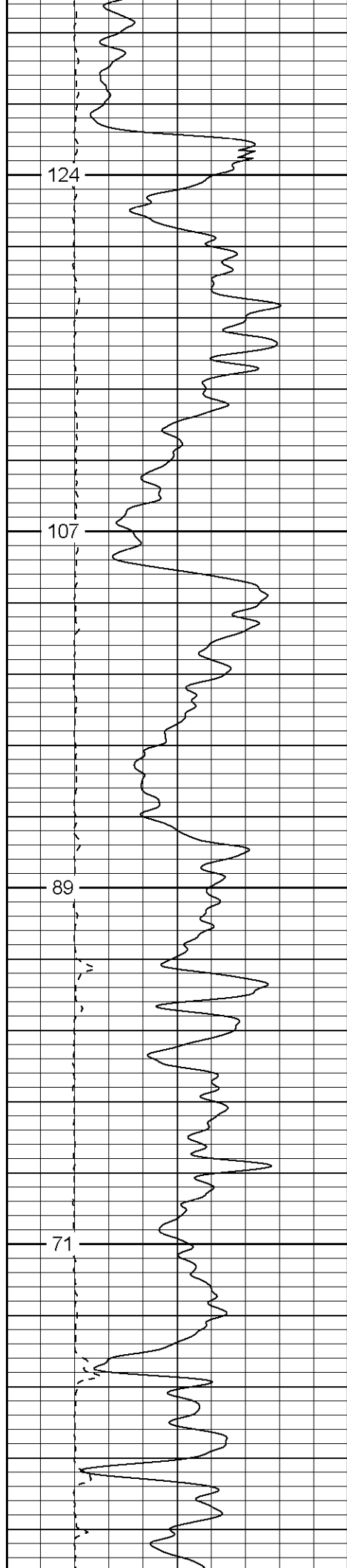
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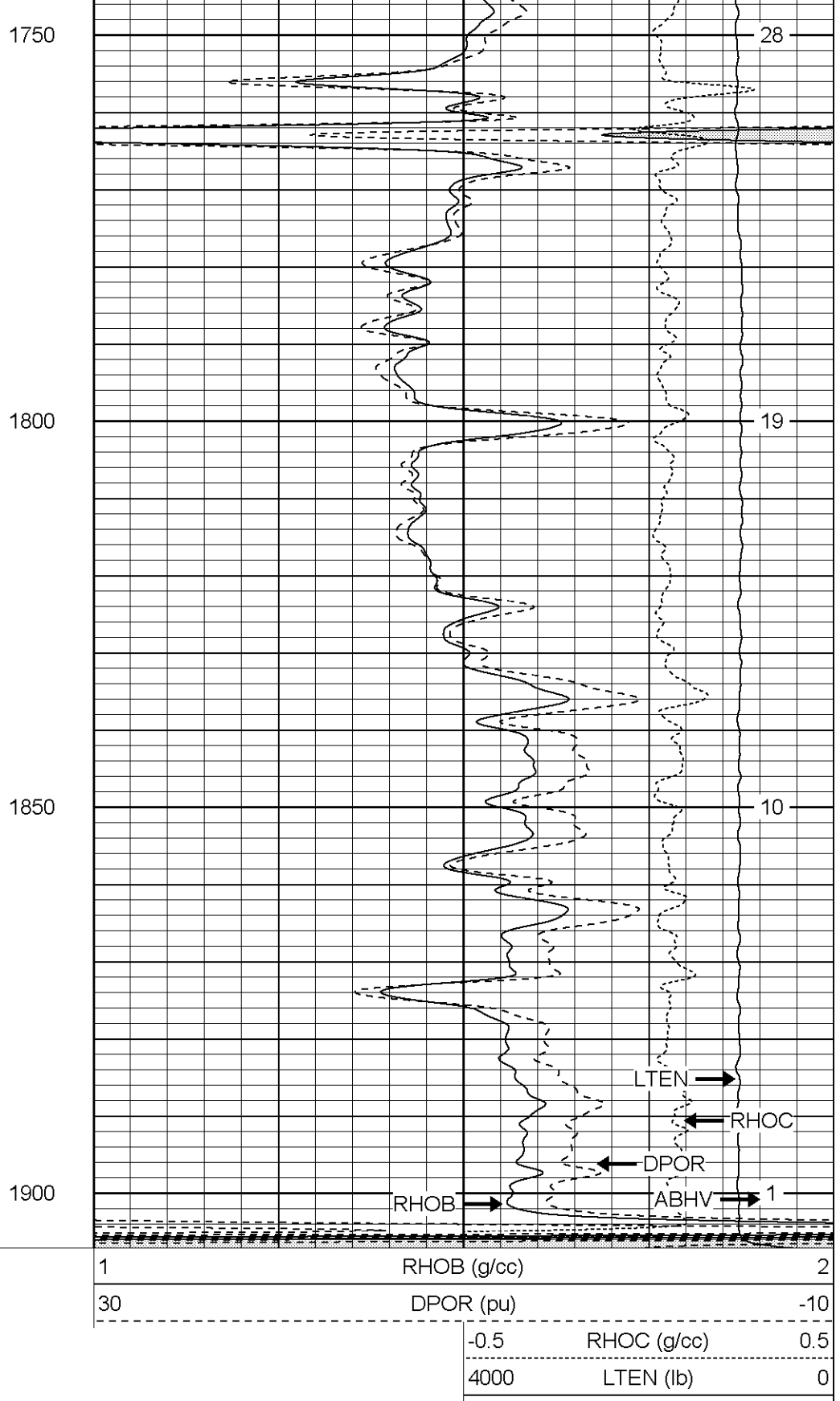
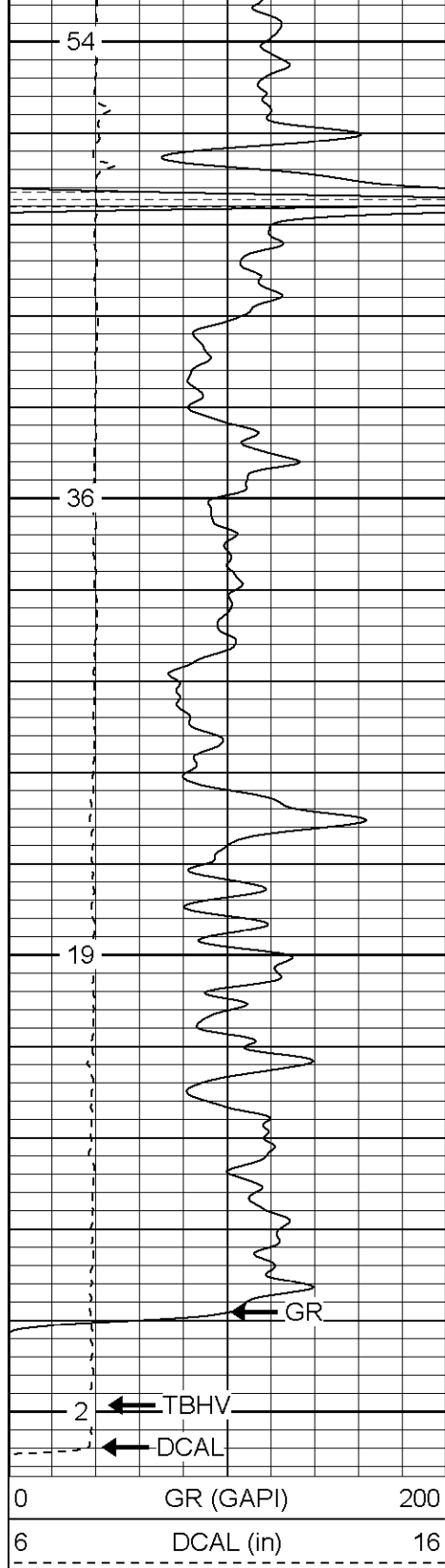
1250

1300







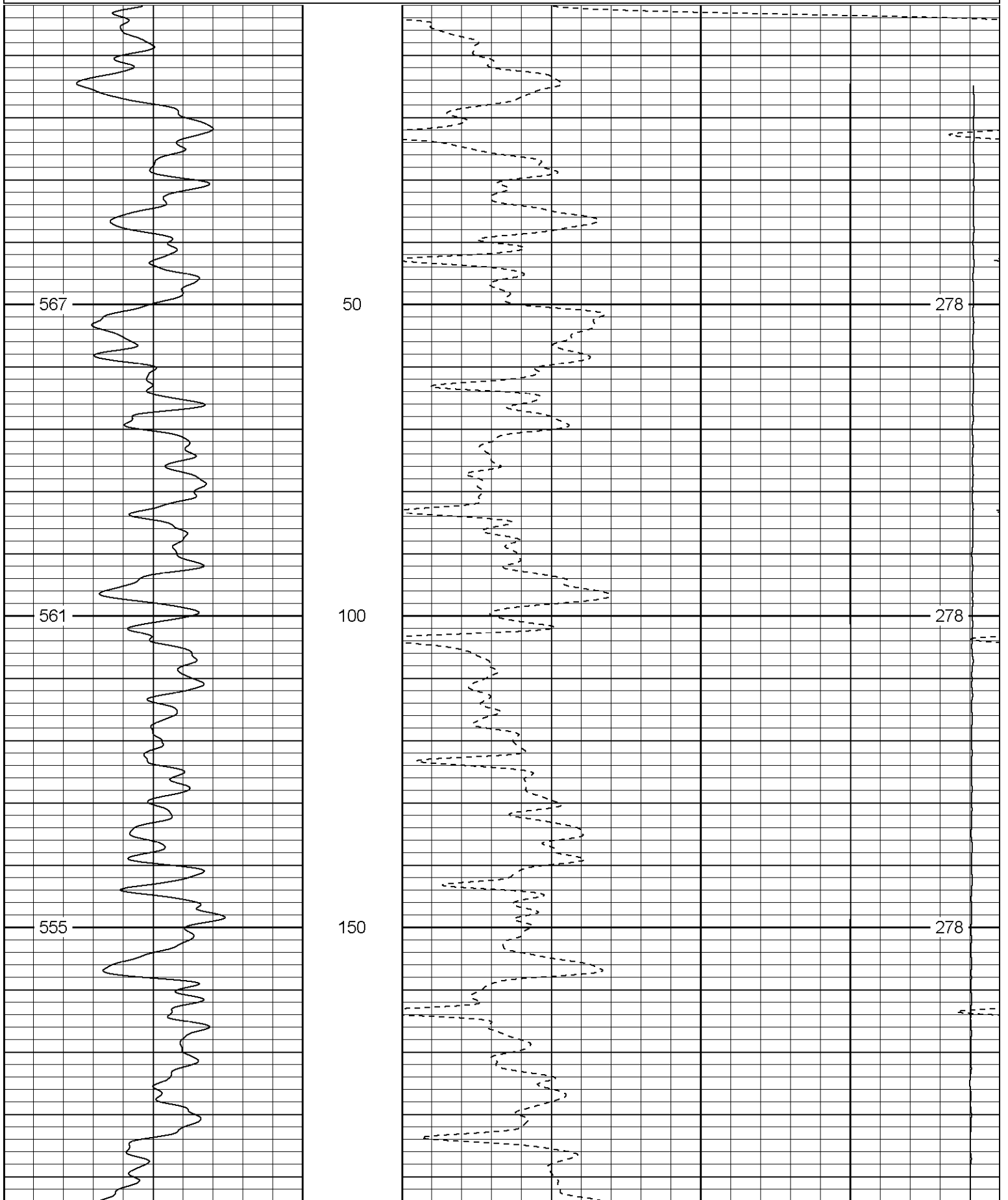


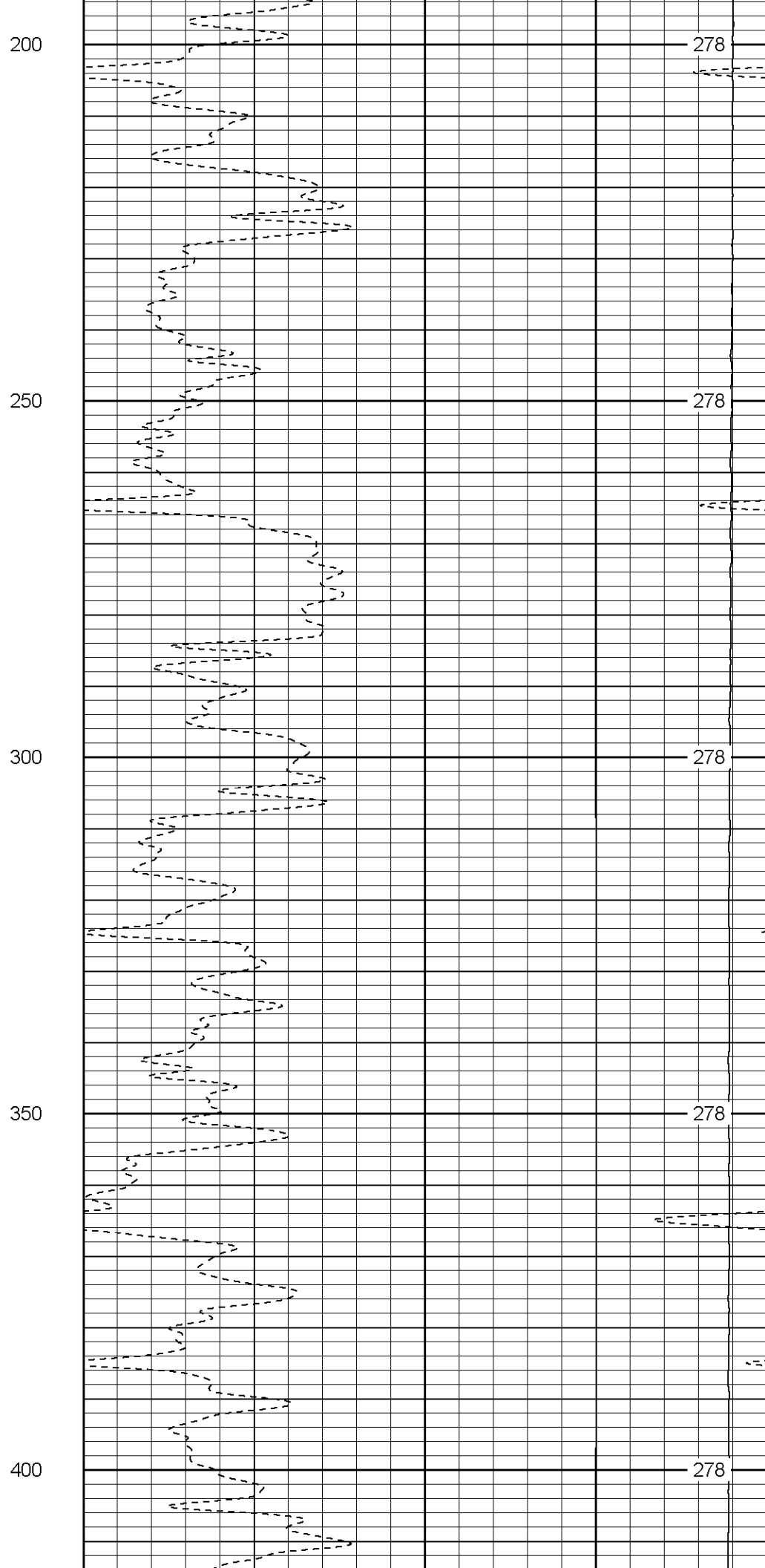
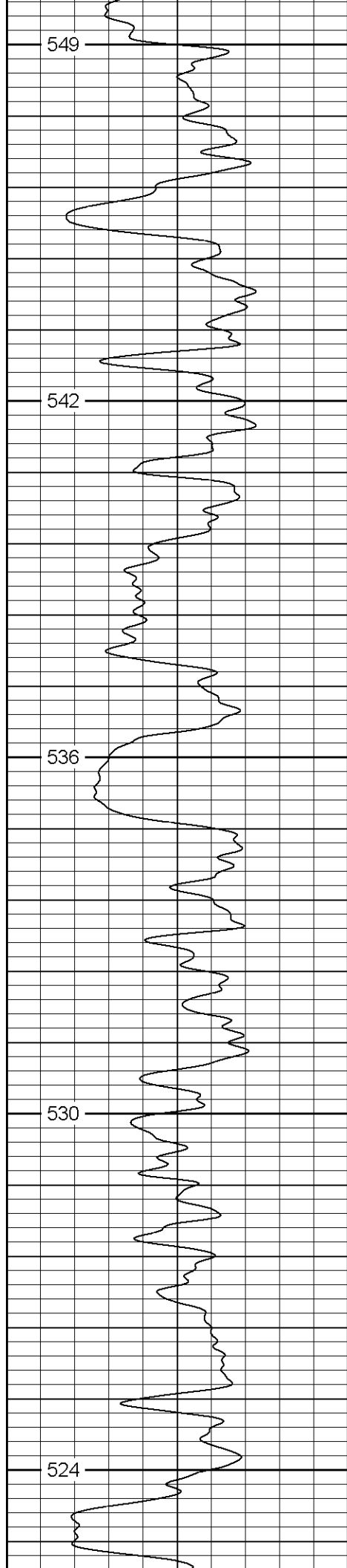
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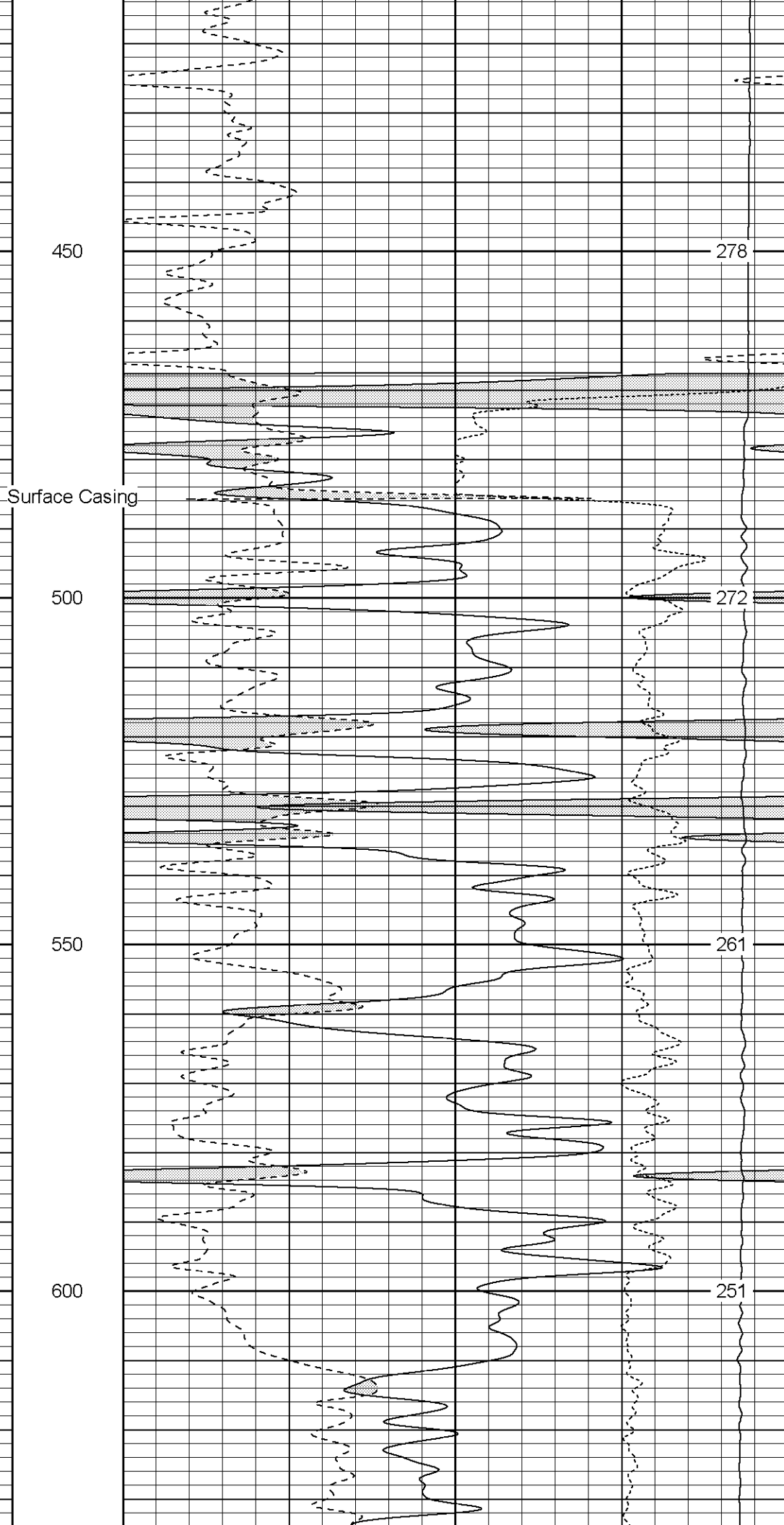
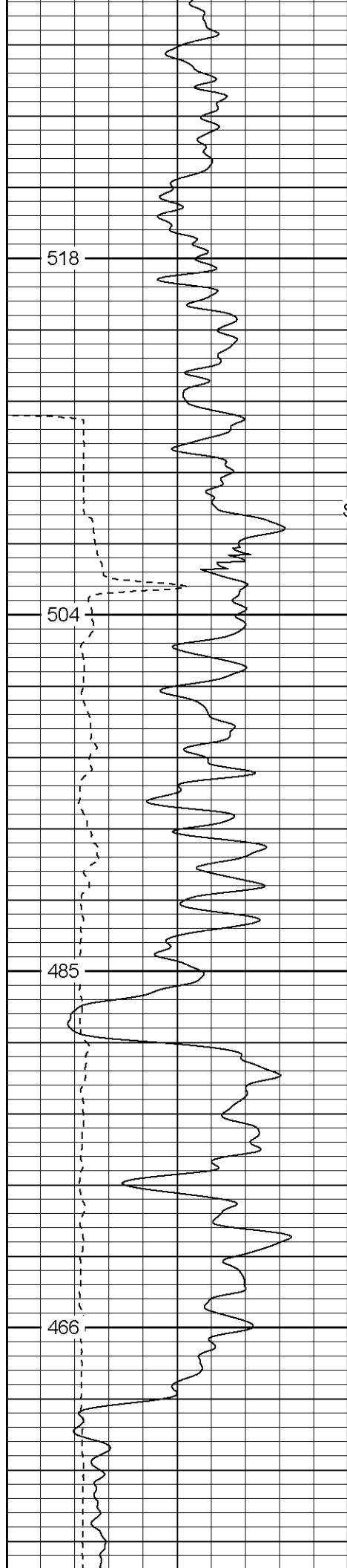
Main Pass

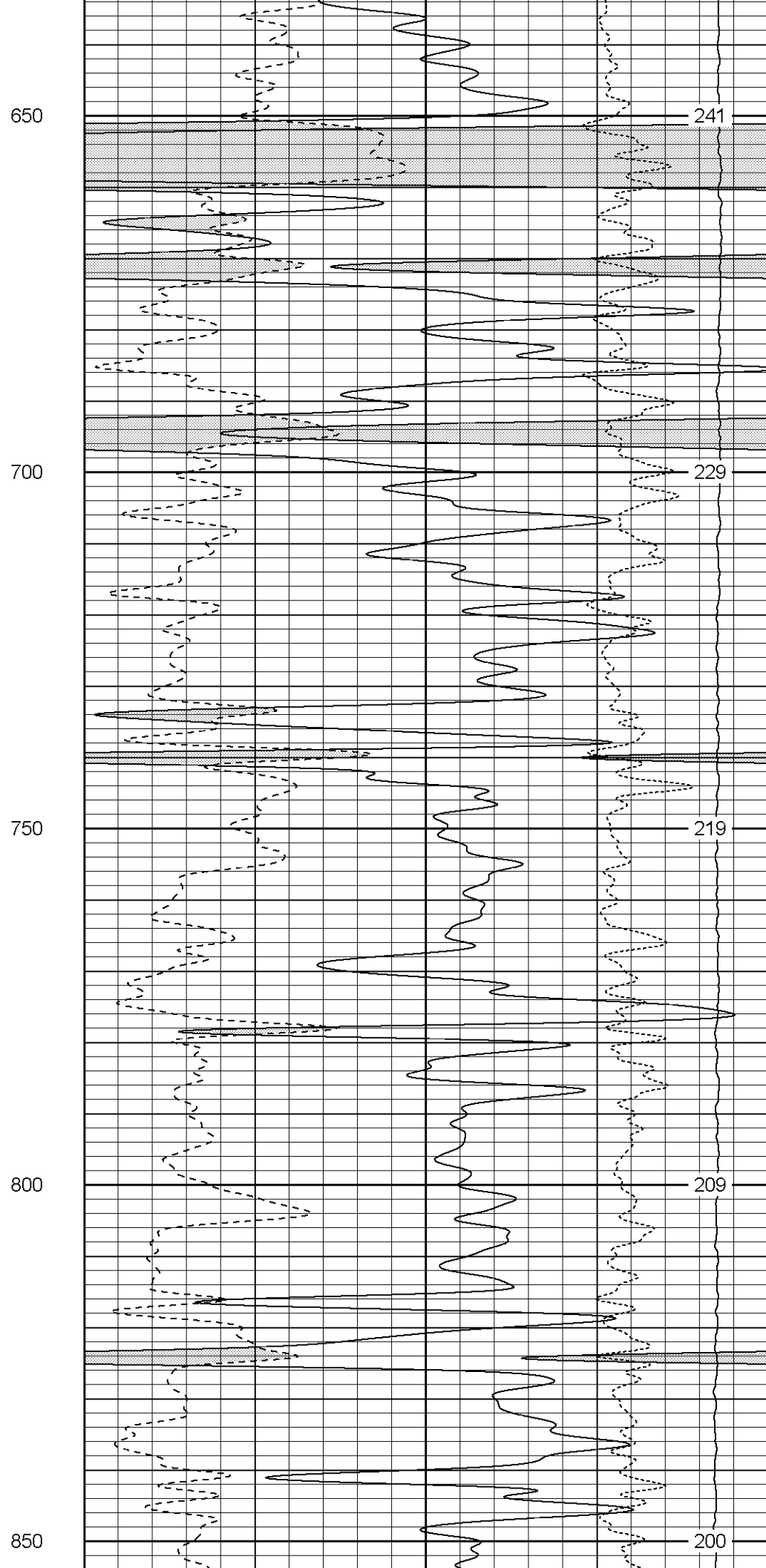
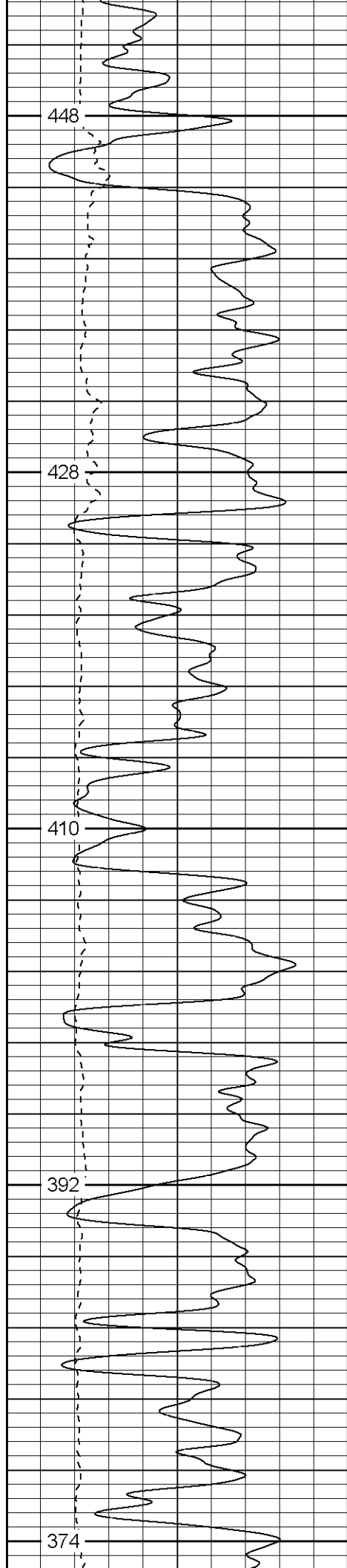
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 Presentation Format: cdnl
 Dataset Creation: Wed Oct 05 12:02:08 2005 by Gale Warrior 7.0 STD One

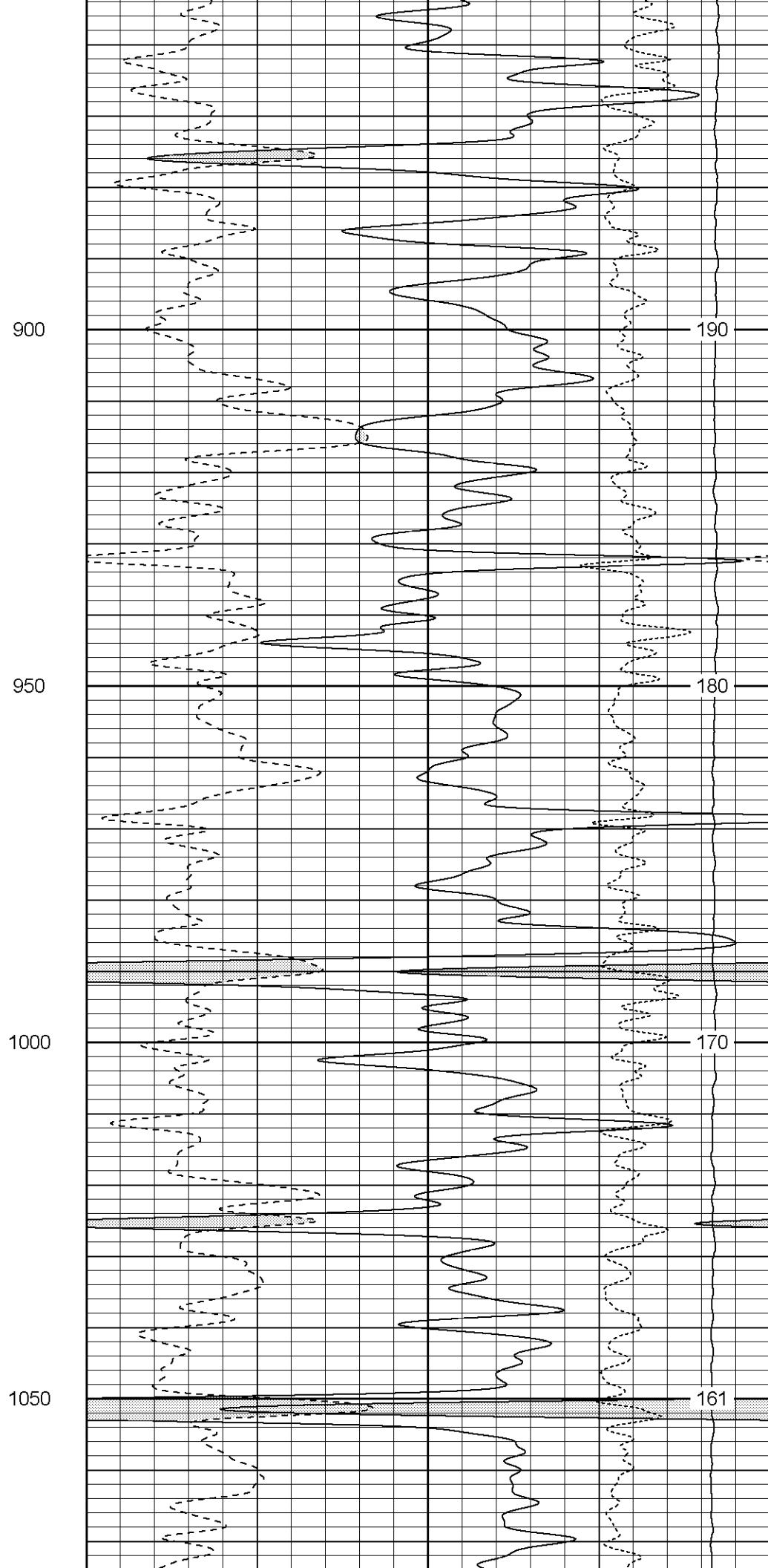
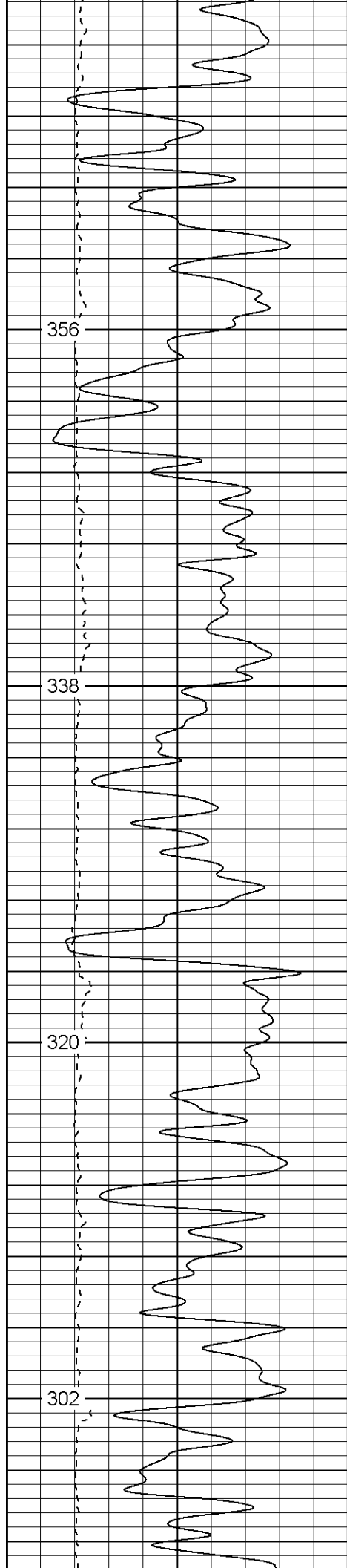
0	GR (GAPI)	200	30	NPOR (pu)	-10	
6	DCAL (in)	16	30	DPOR (pu)	-10	
				-0.5	RHOC (g/cc)	0.5
				5000	LTEN (lb)	0

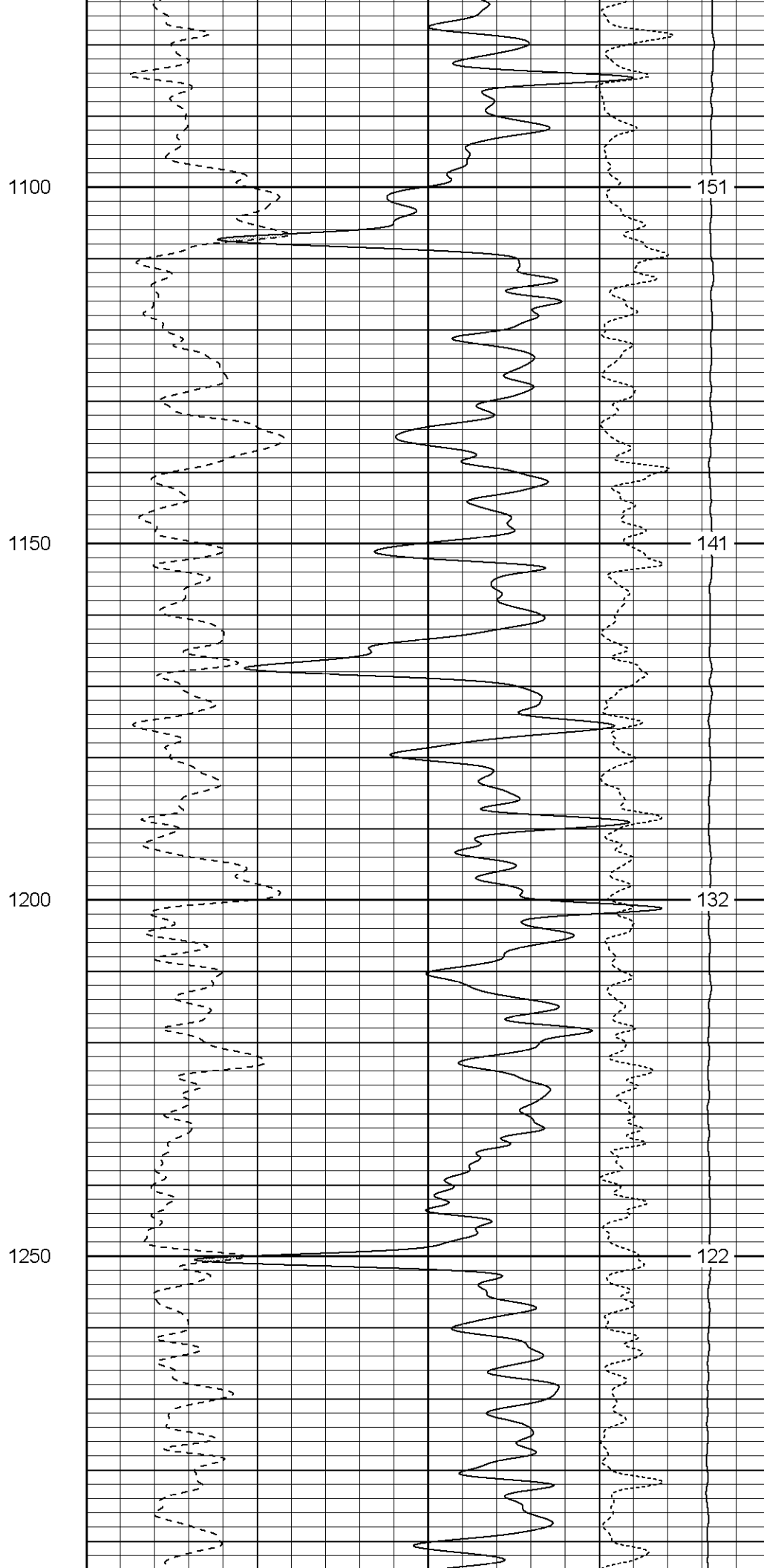
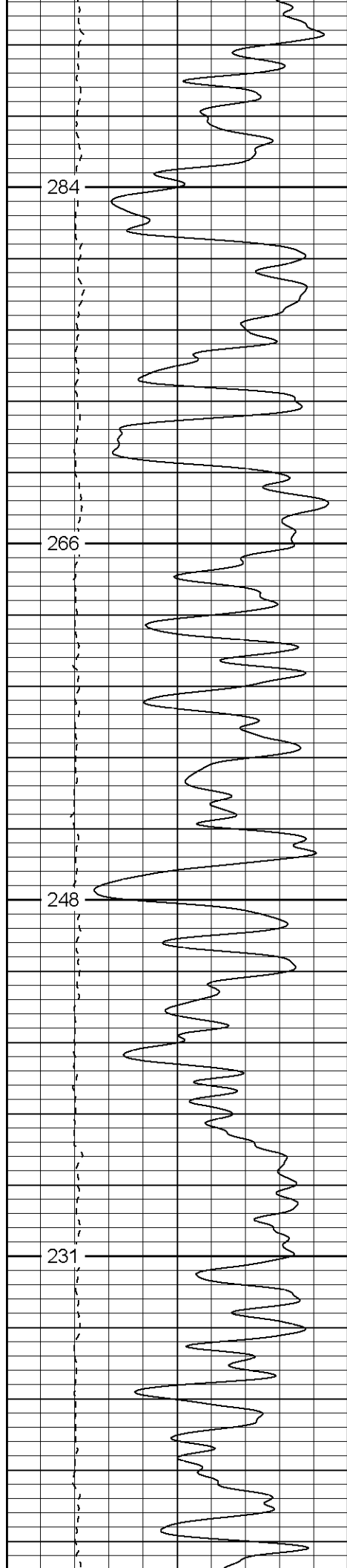


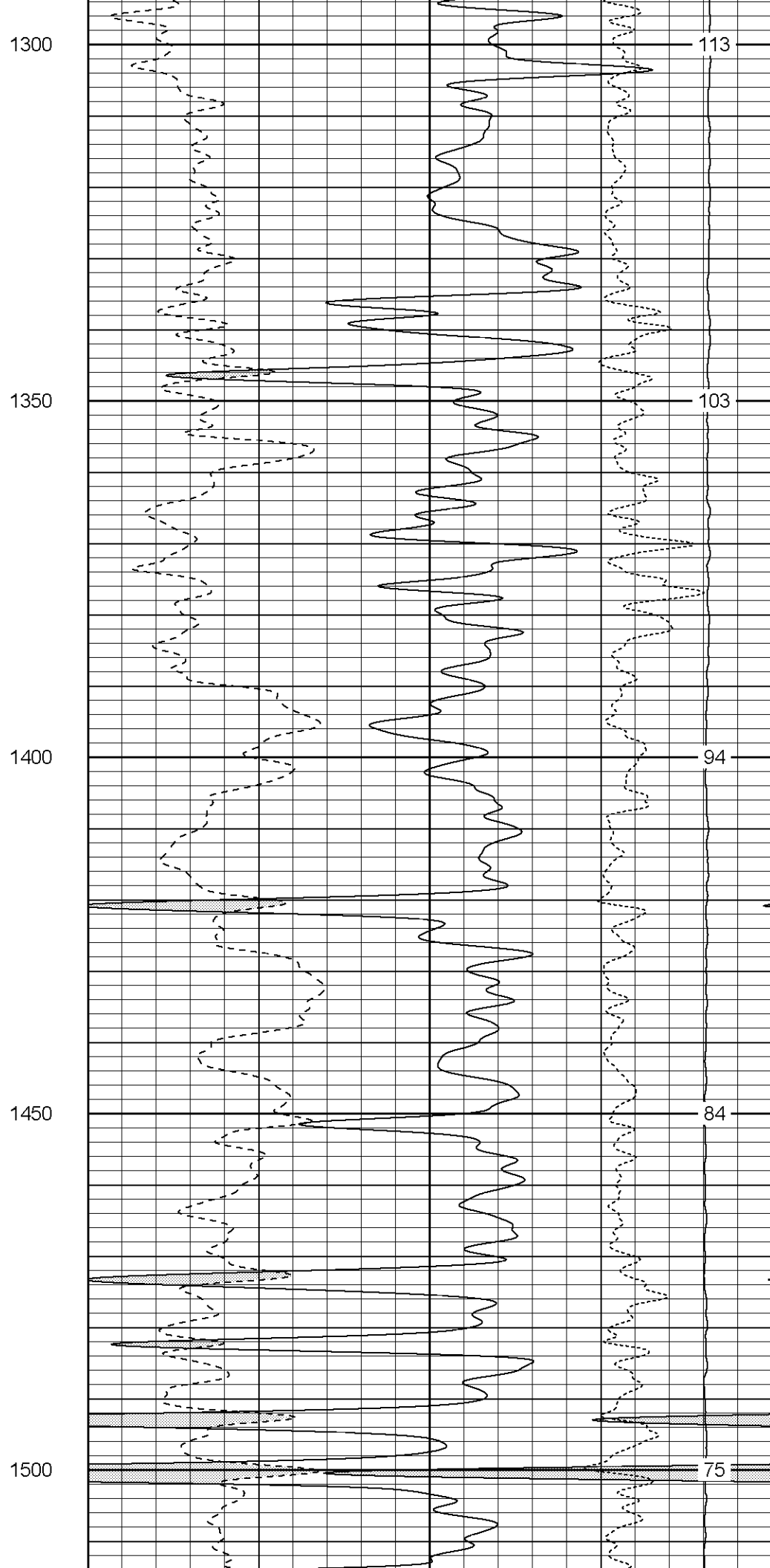
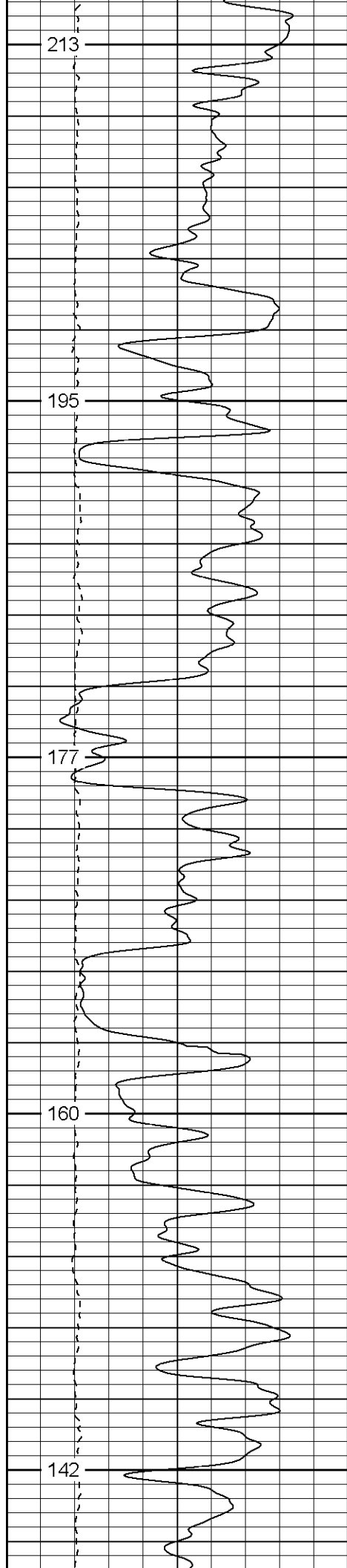


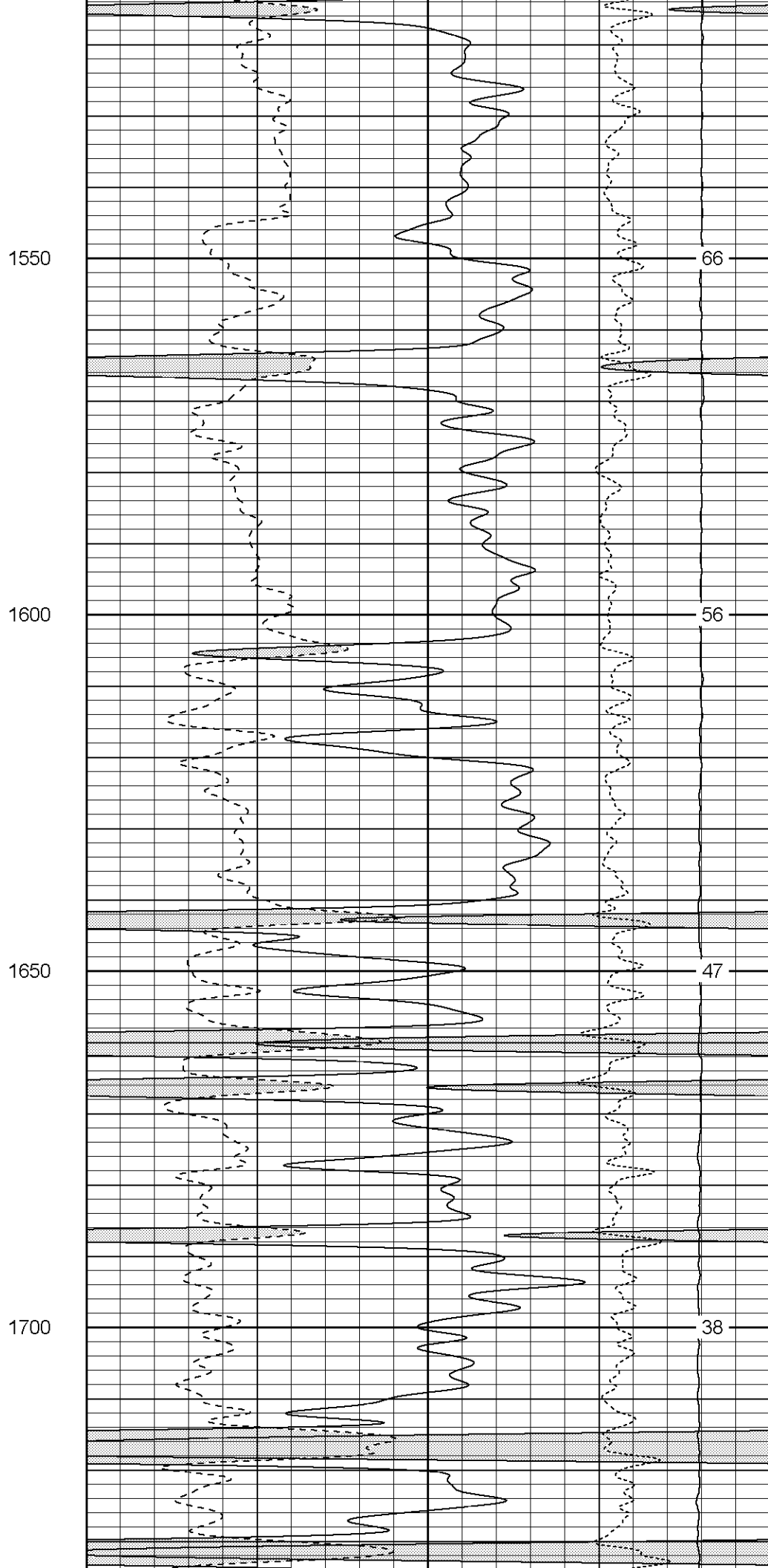
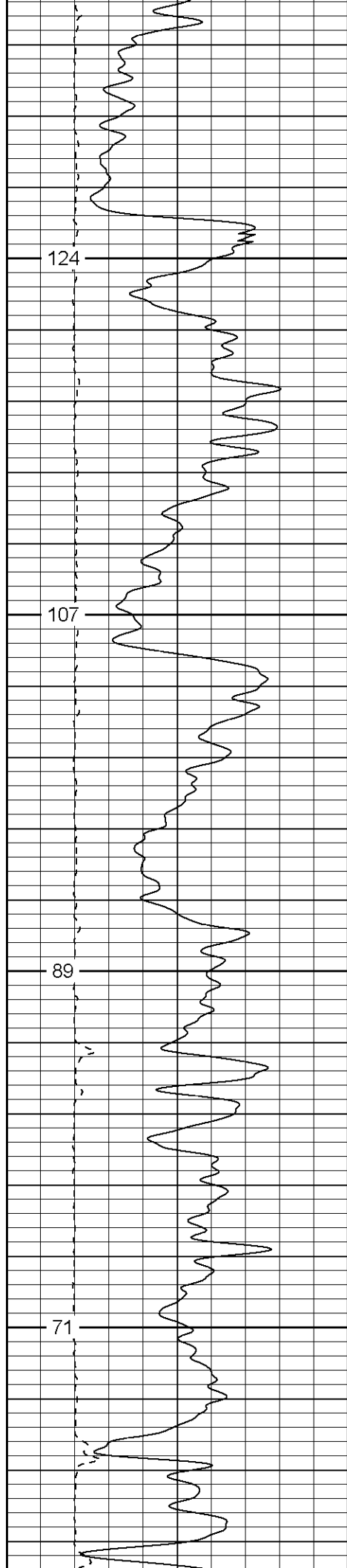


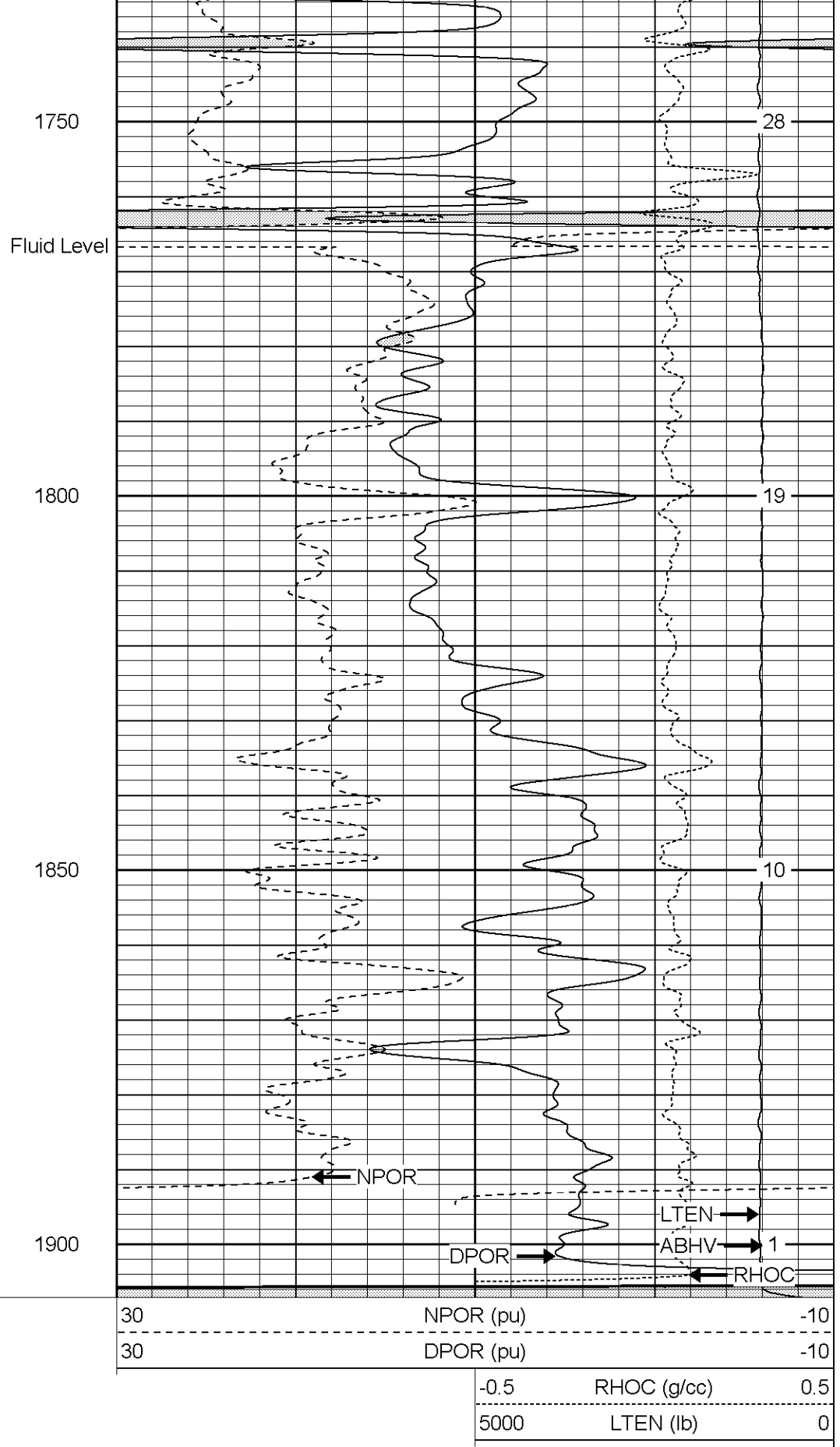
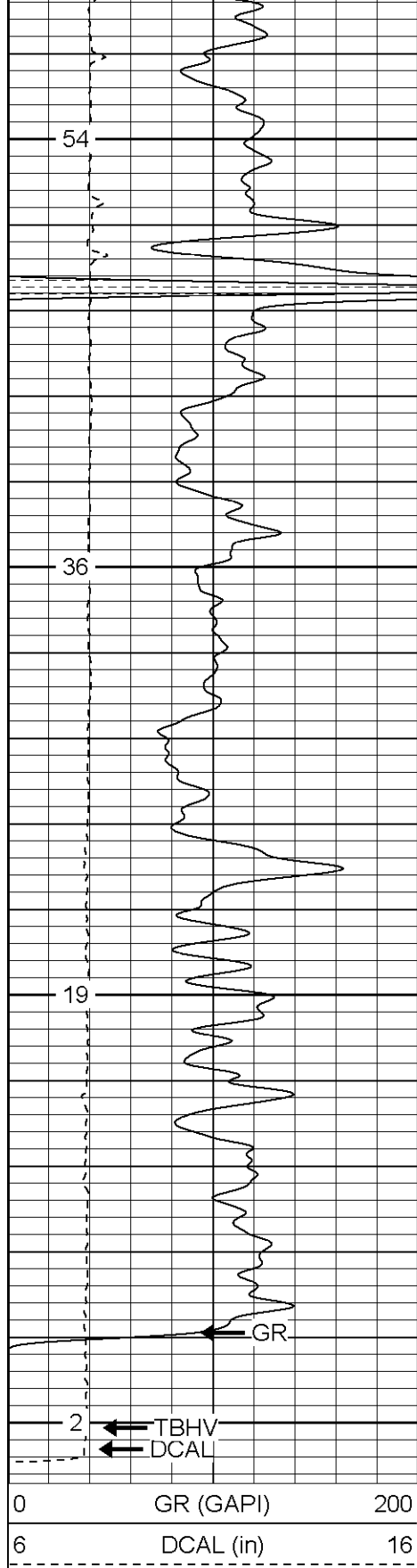










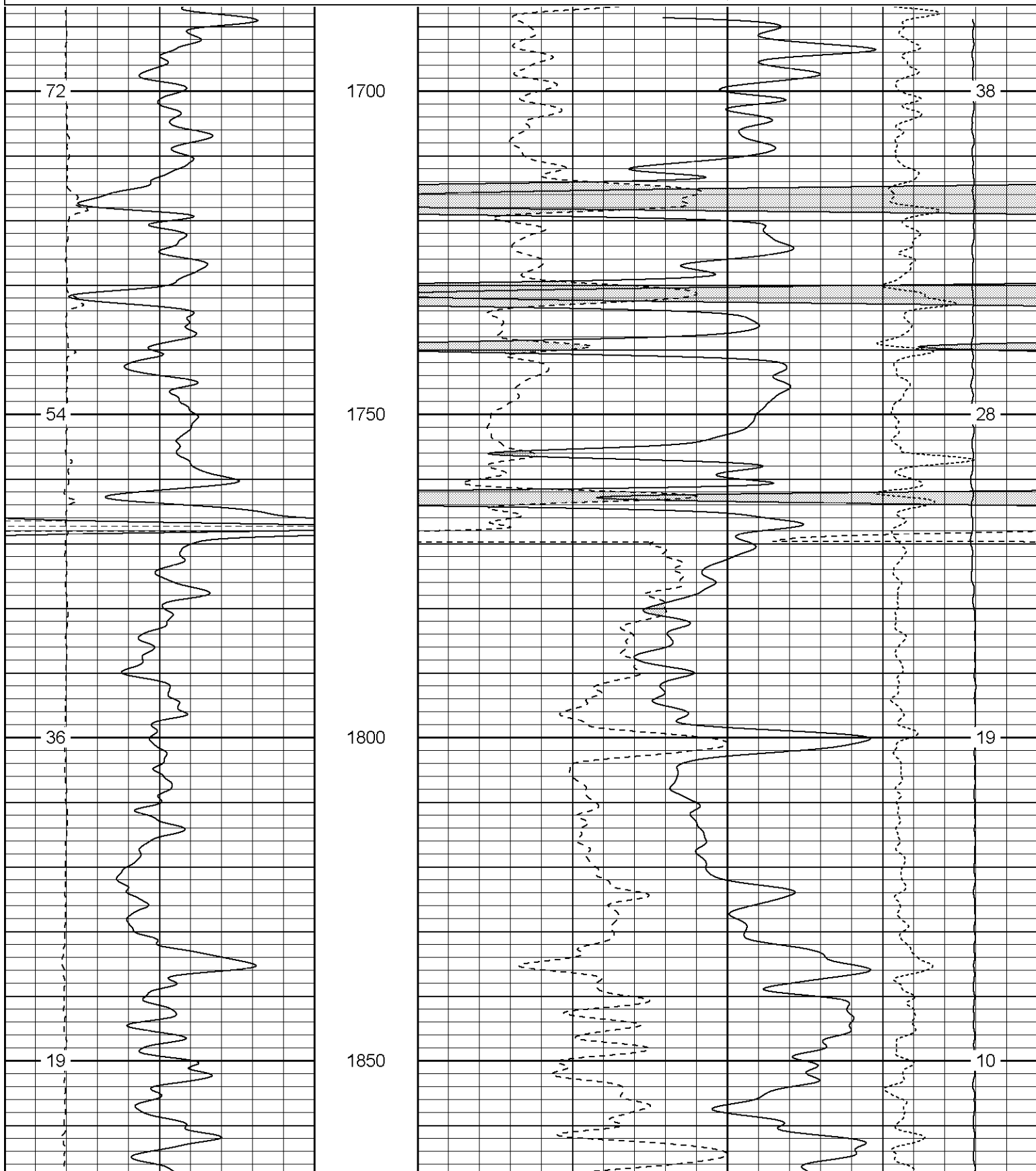


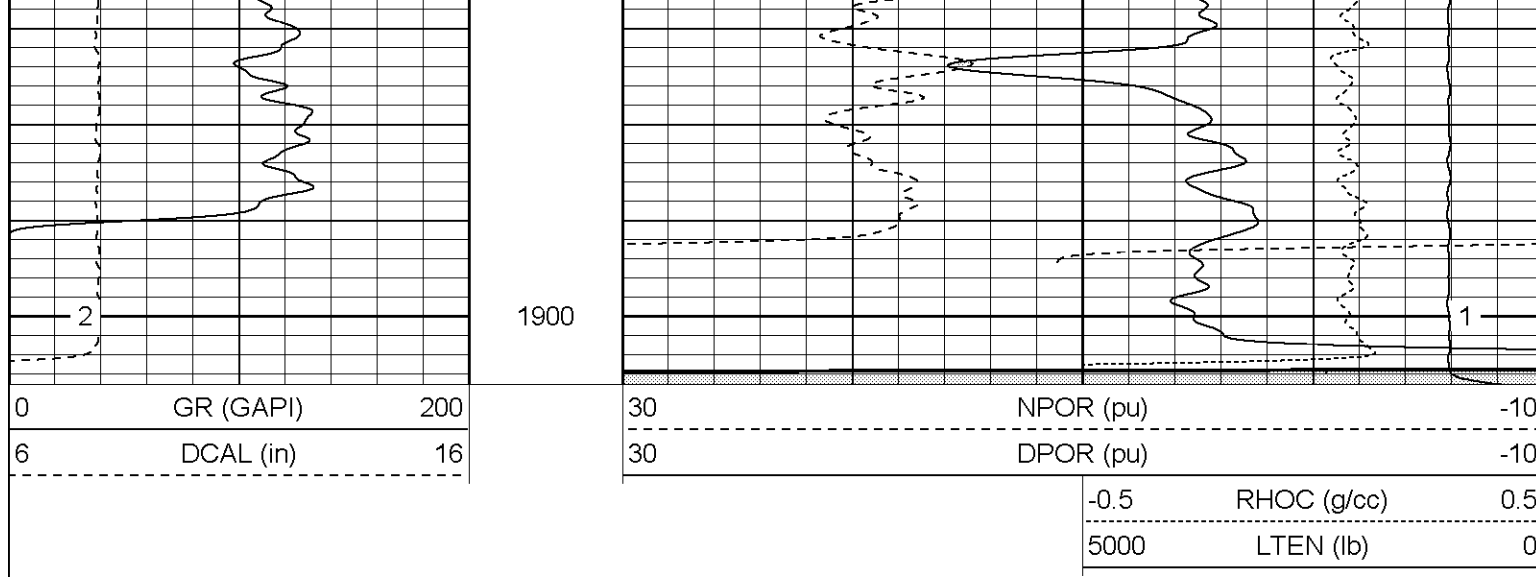
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Repeat Section

Database File: jamabeau.db
Dataset Pathname: pass3.1
Presentation Format: cdnl
Dataset Creation: Wed Oct 05 11:54:59 2005 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



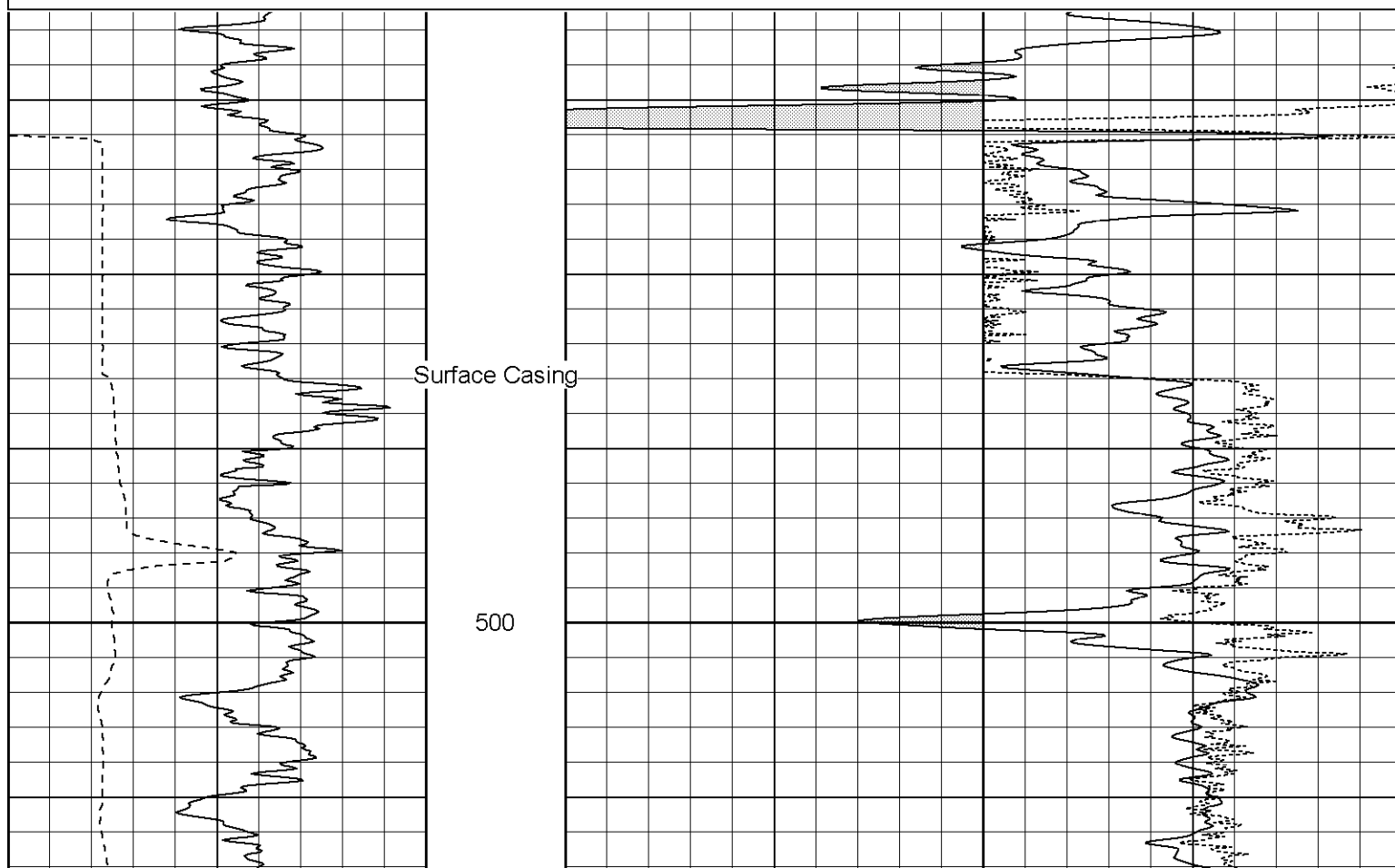


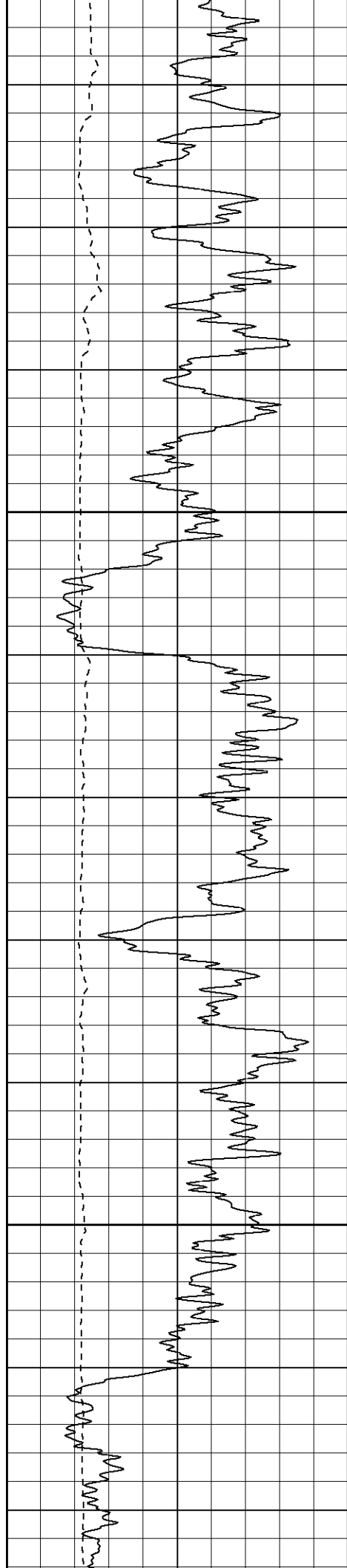
Patterson

High Resolution Pass

Database File: jamabeen.db
 Dataset Pathname: pass4.2
 Presentation Format: cdlhr
 Dataset Creation: Wed Oct 05 16:08:34 2005 by Calc Warrior 7.0 STD Ope
 Charted by: Depth in Feet scaled 1:120

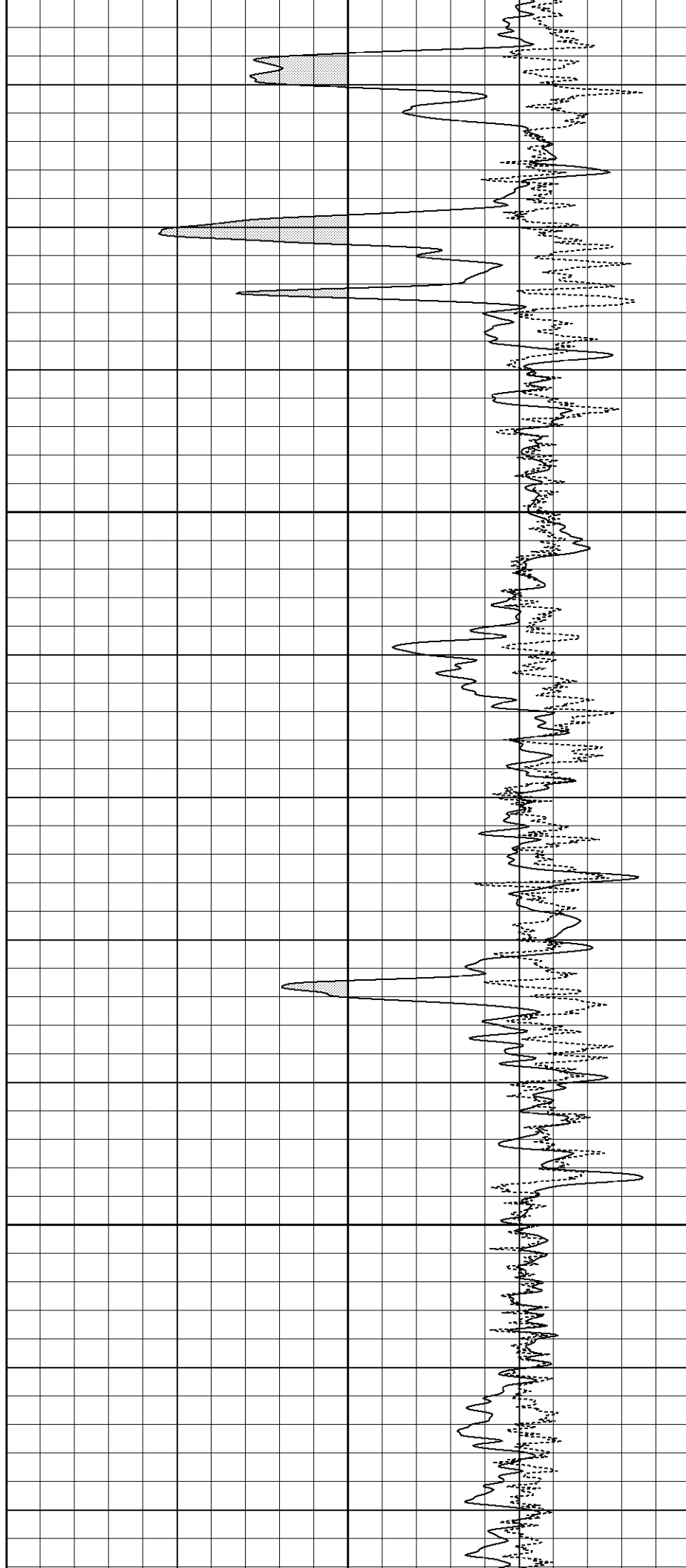
0	GR (GAPI)	200	1	RHOB (g/cc)	3
6	DCAL (in)	16	-0.5	RHOC (g/cc)	0.5

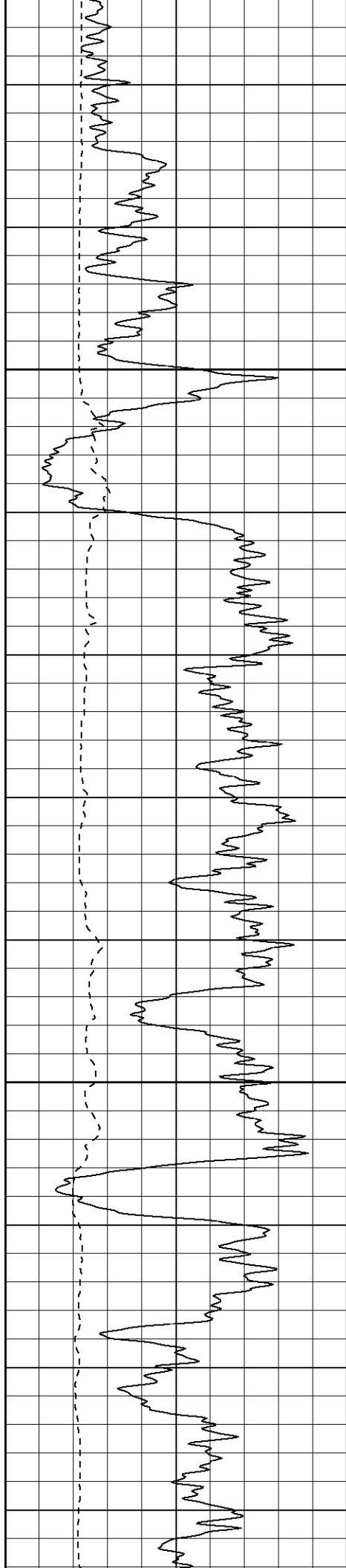




550

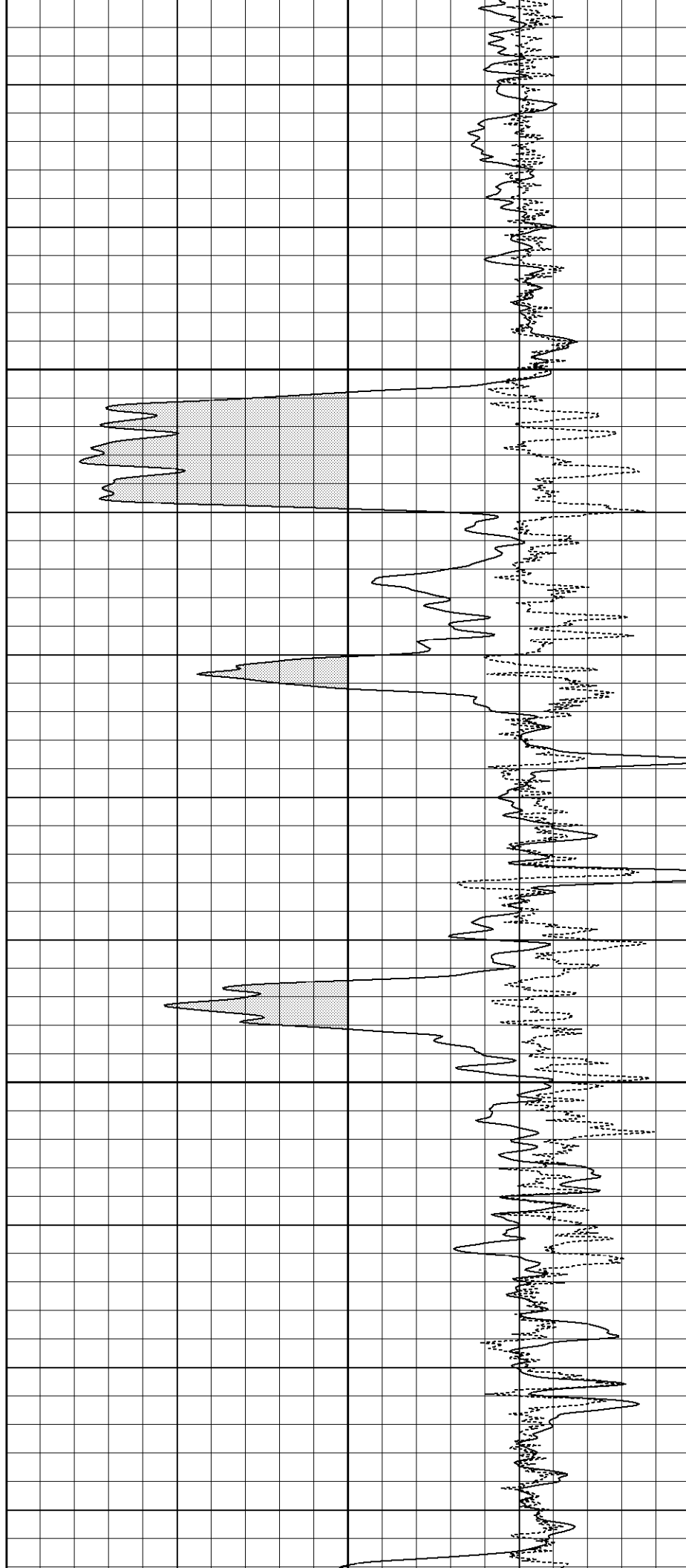
600

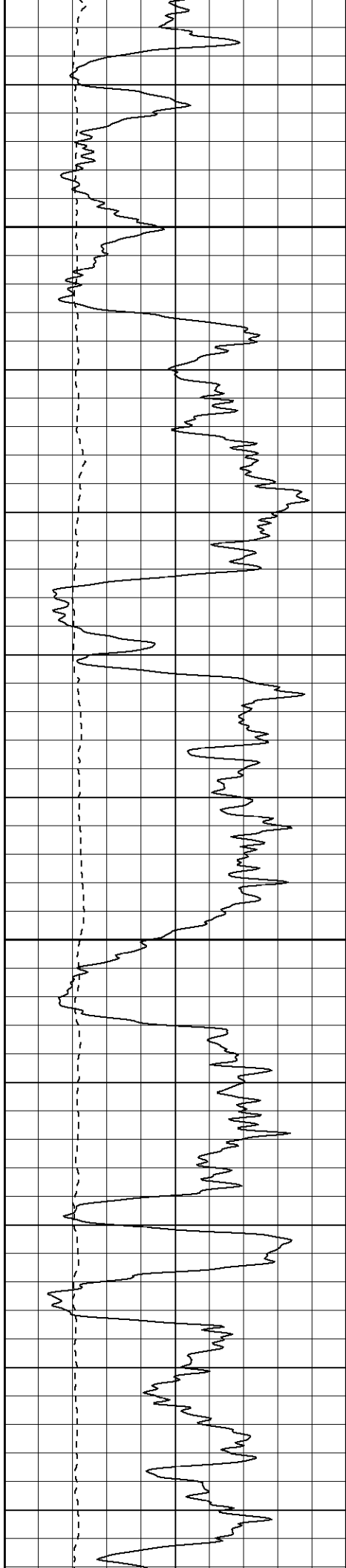




650

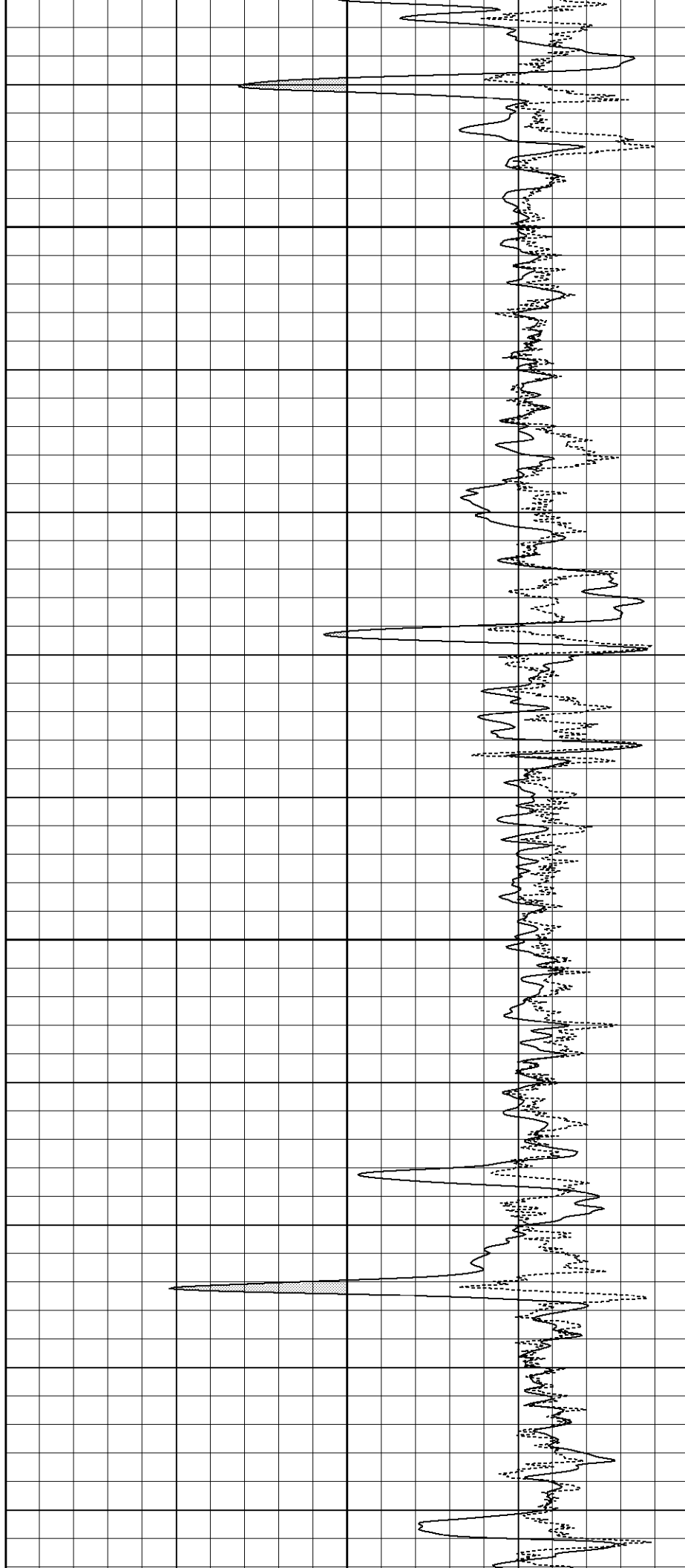
700

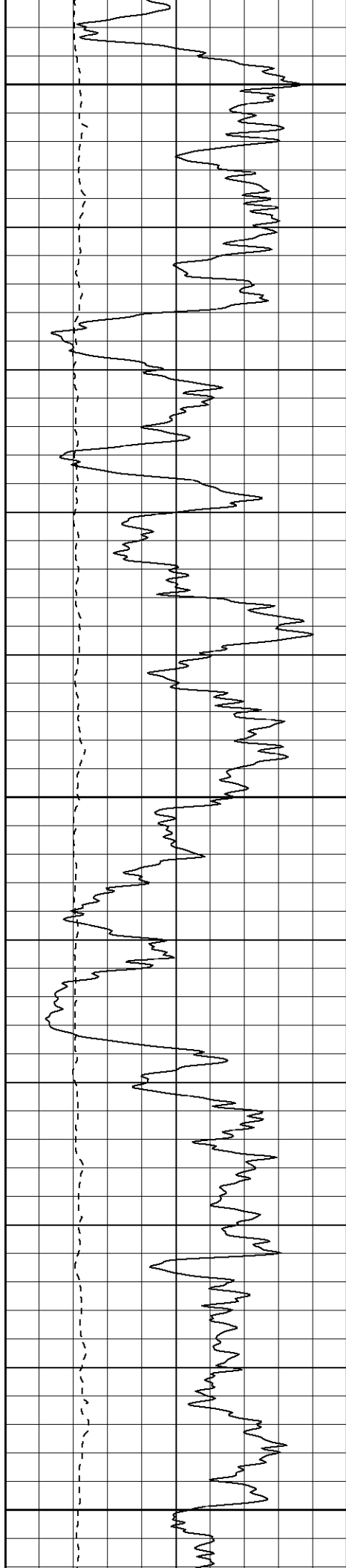




750

800

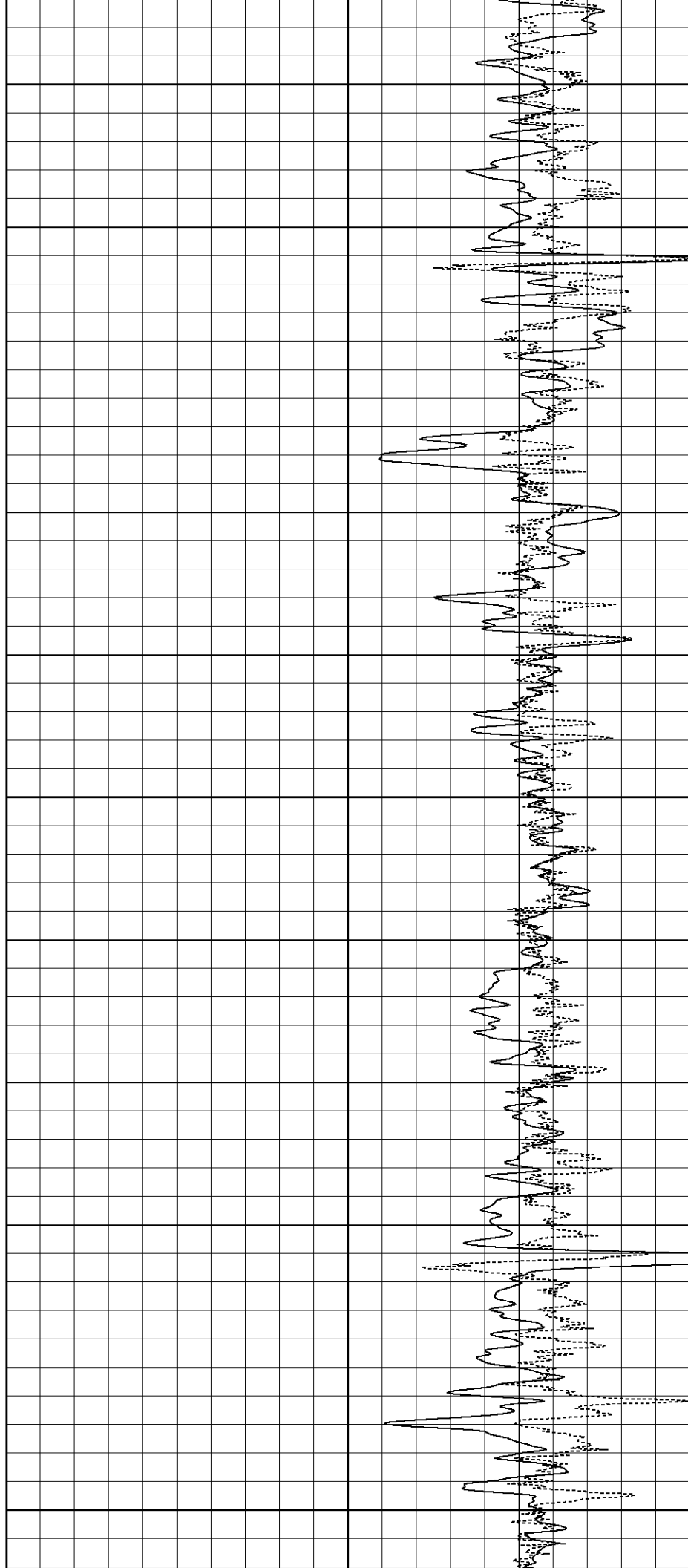


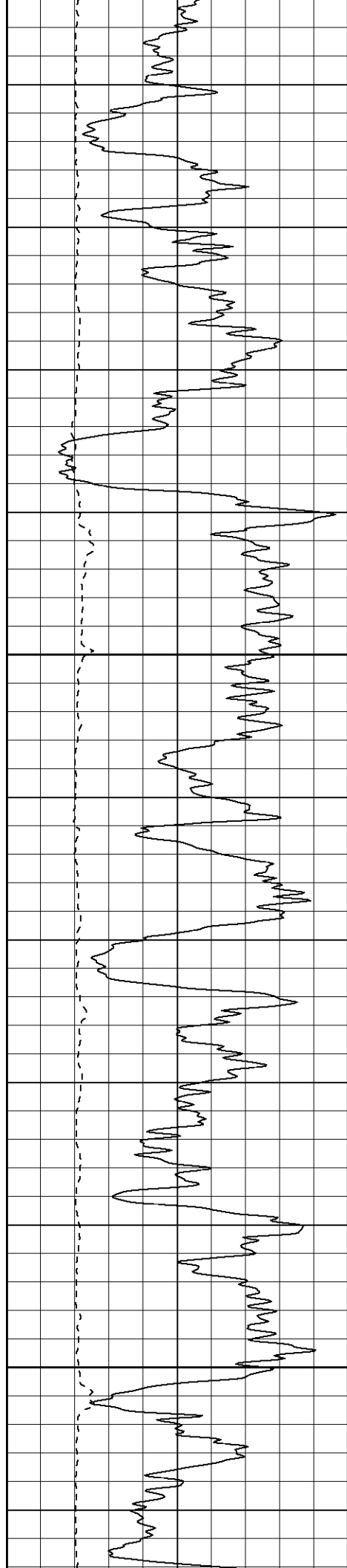


850

900

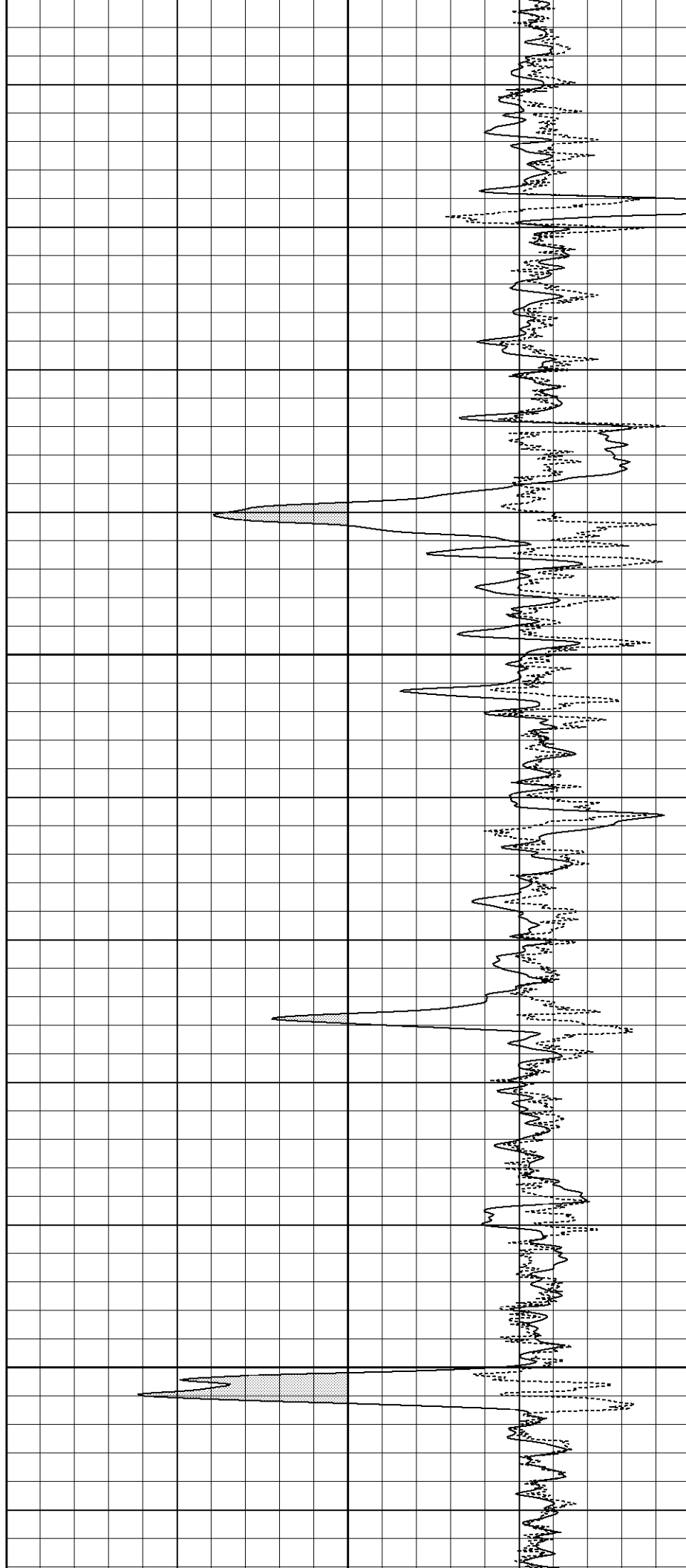
950

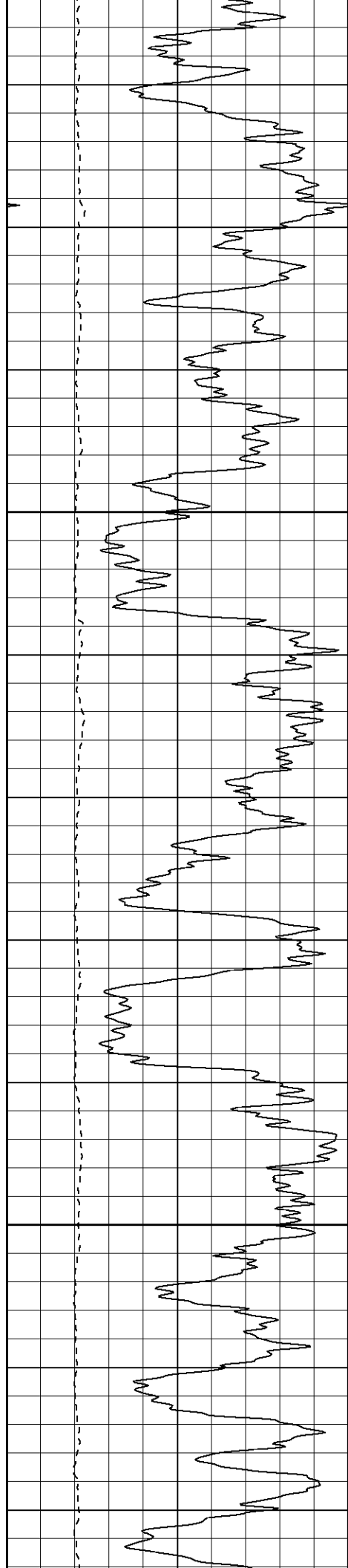




1000

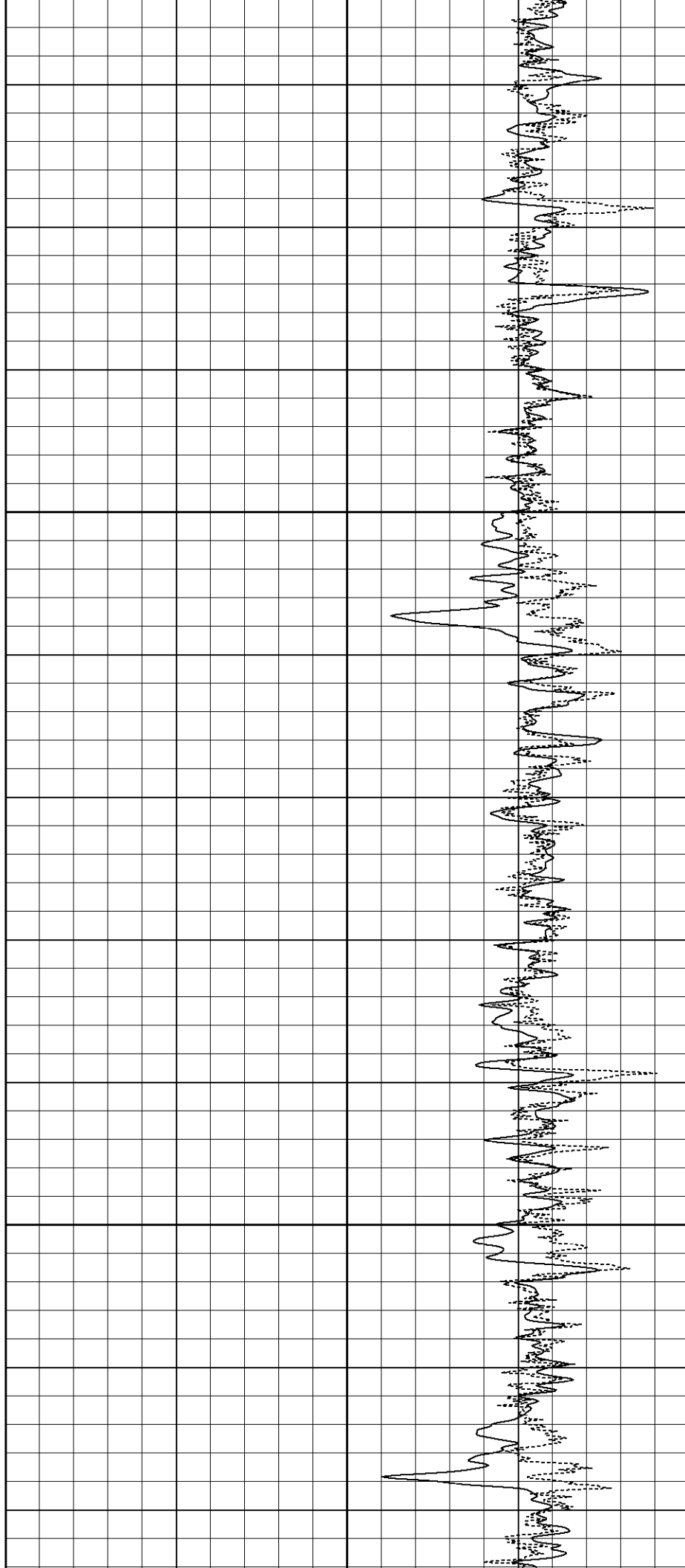
1050

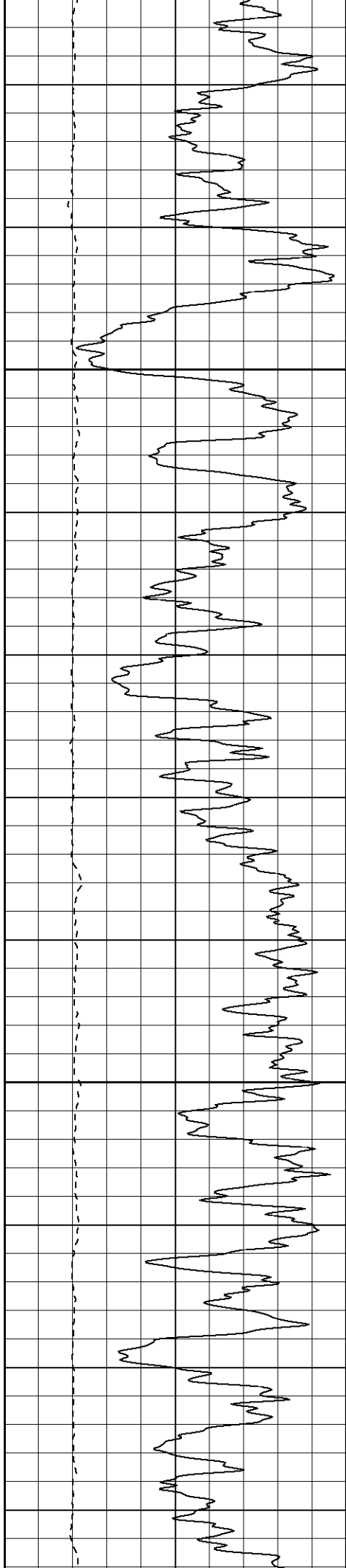




1100

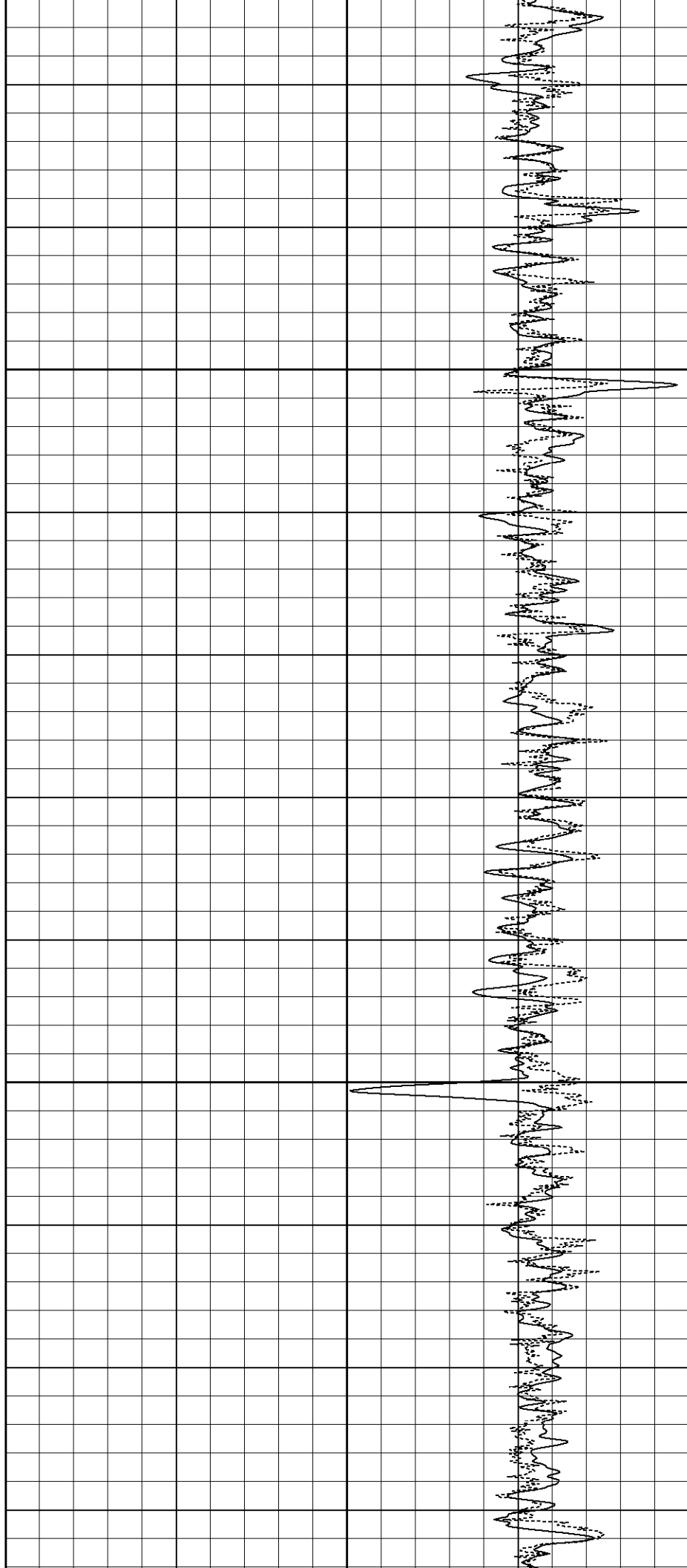
1150

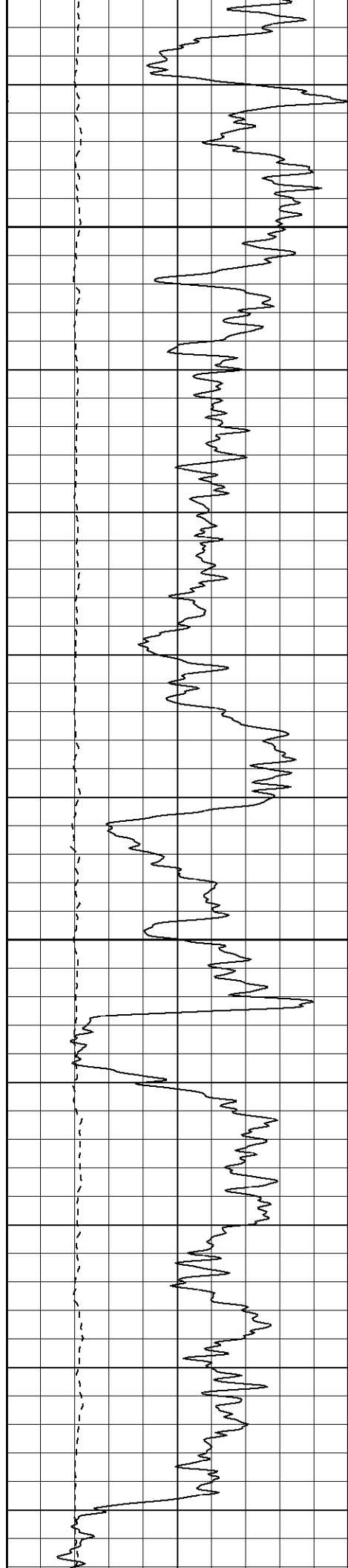




1200

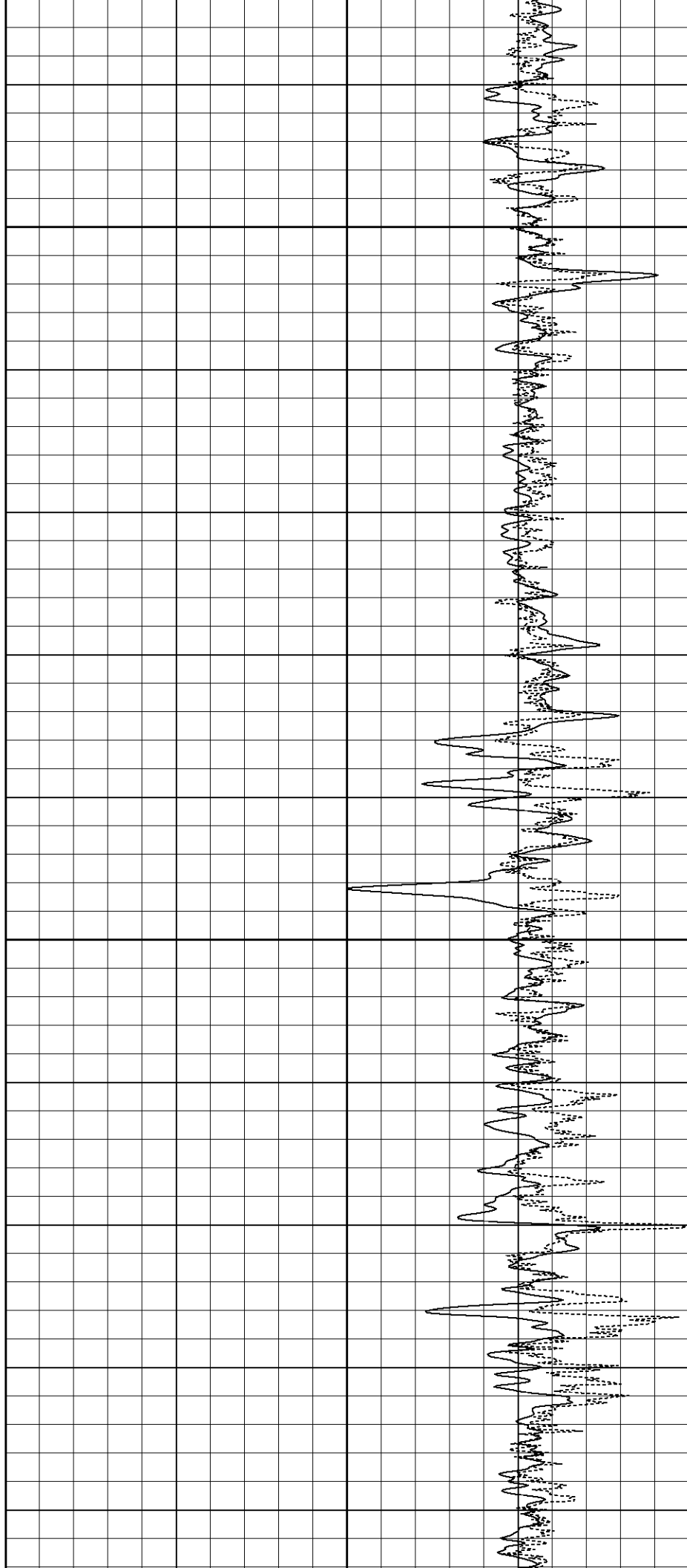
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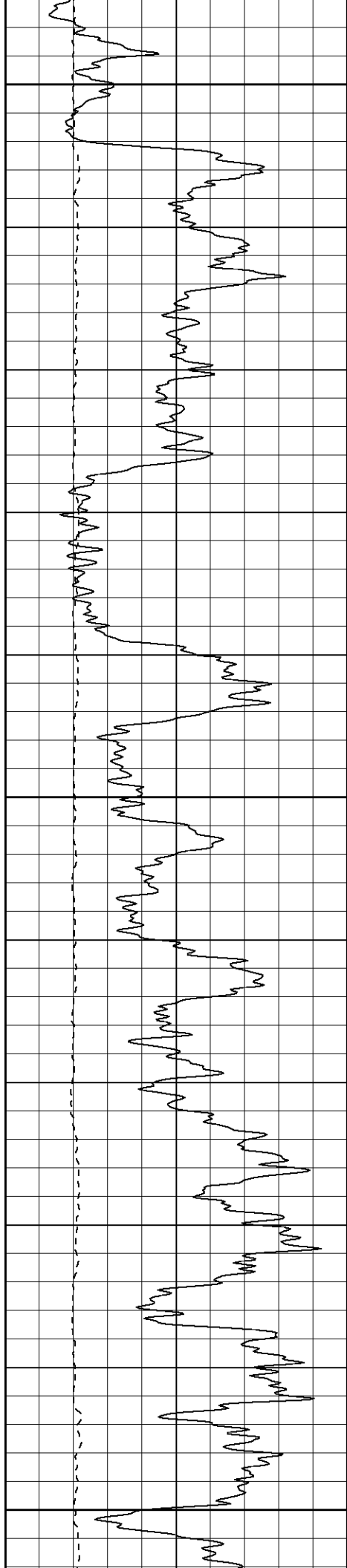




1300

1350

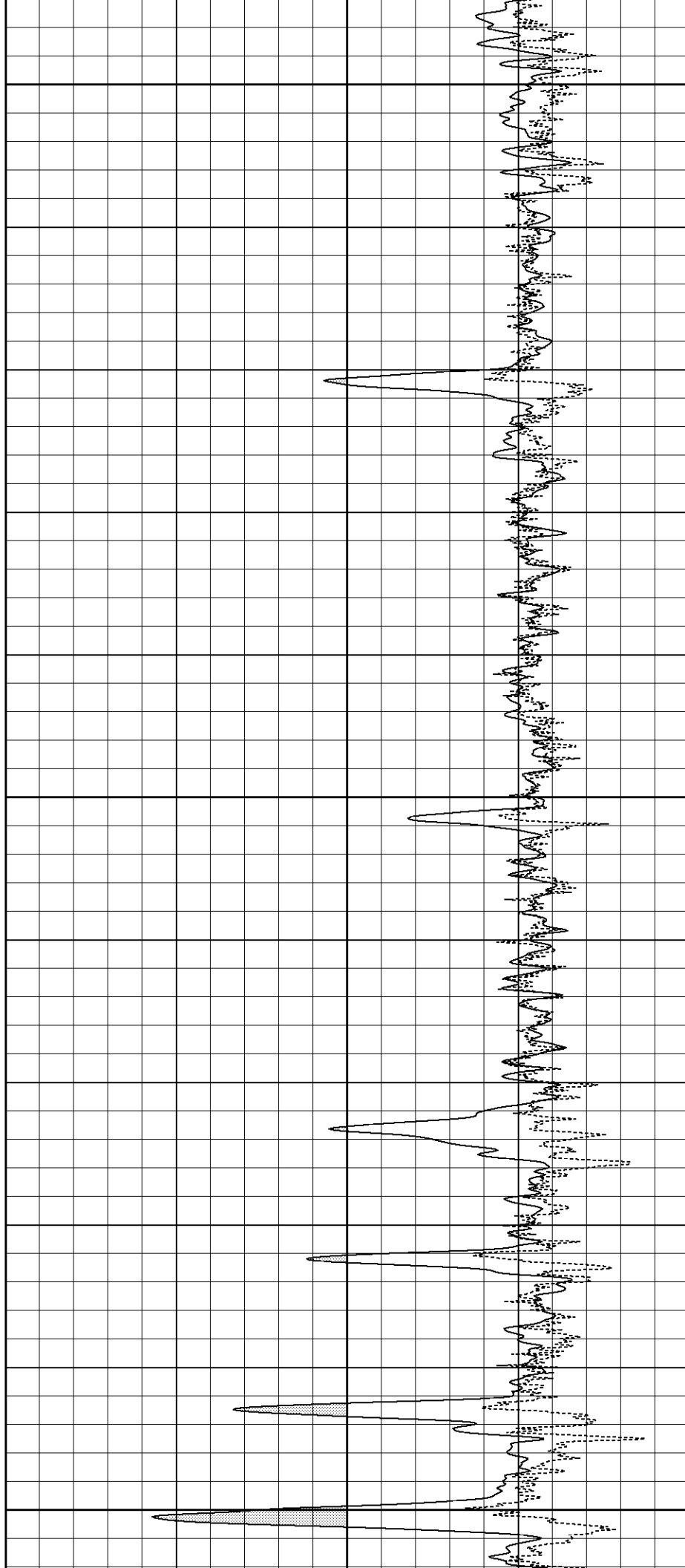


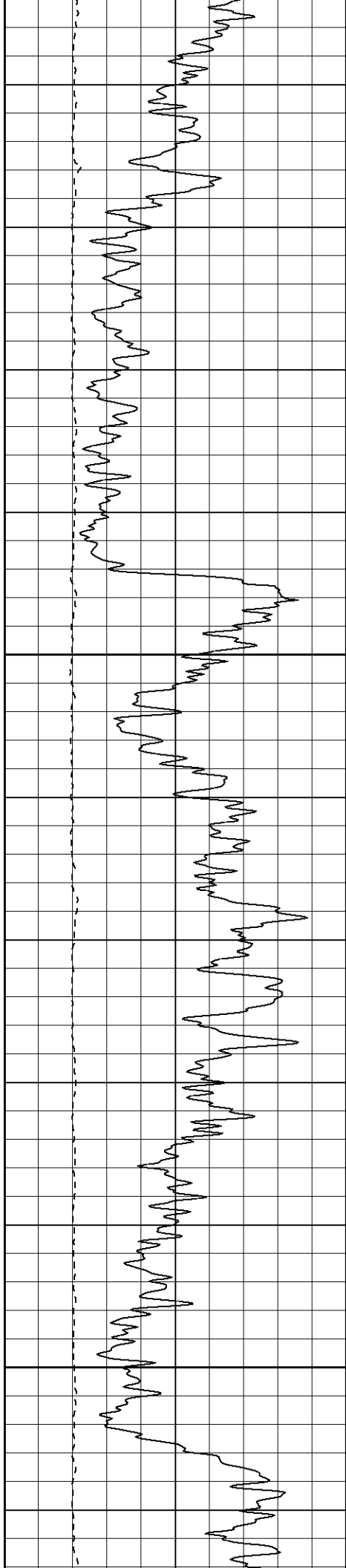


1400

1450

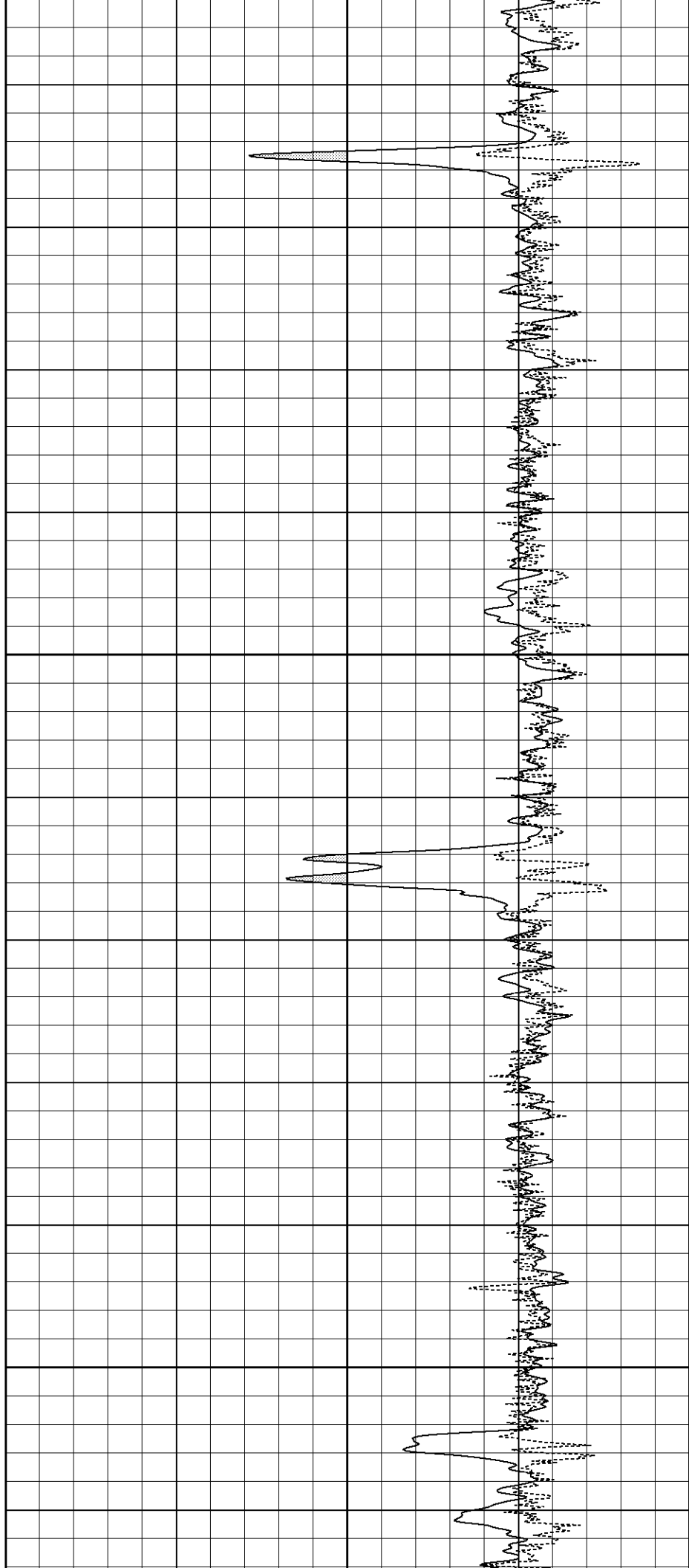
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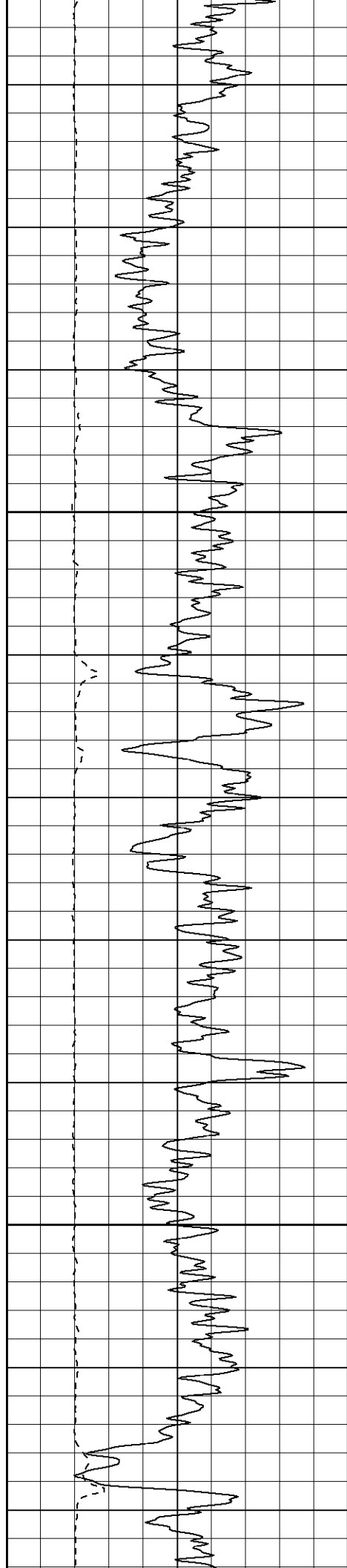




1550

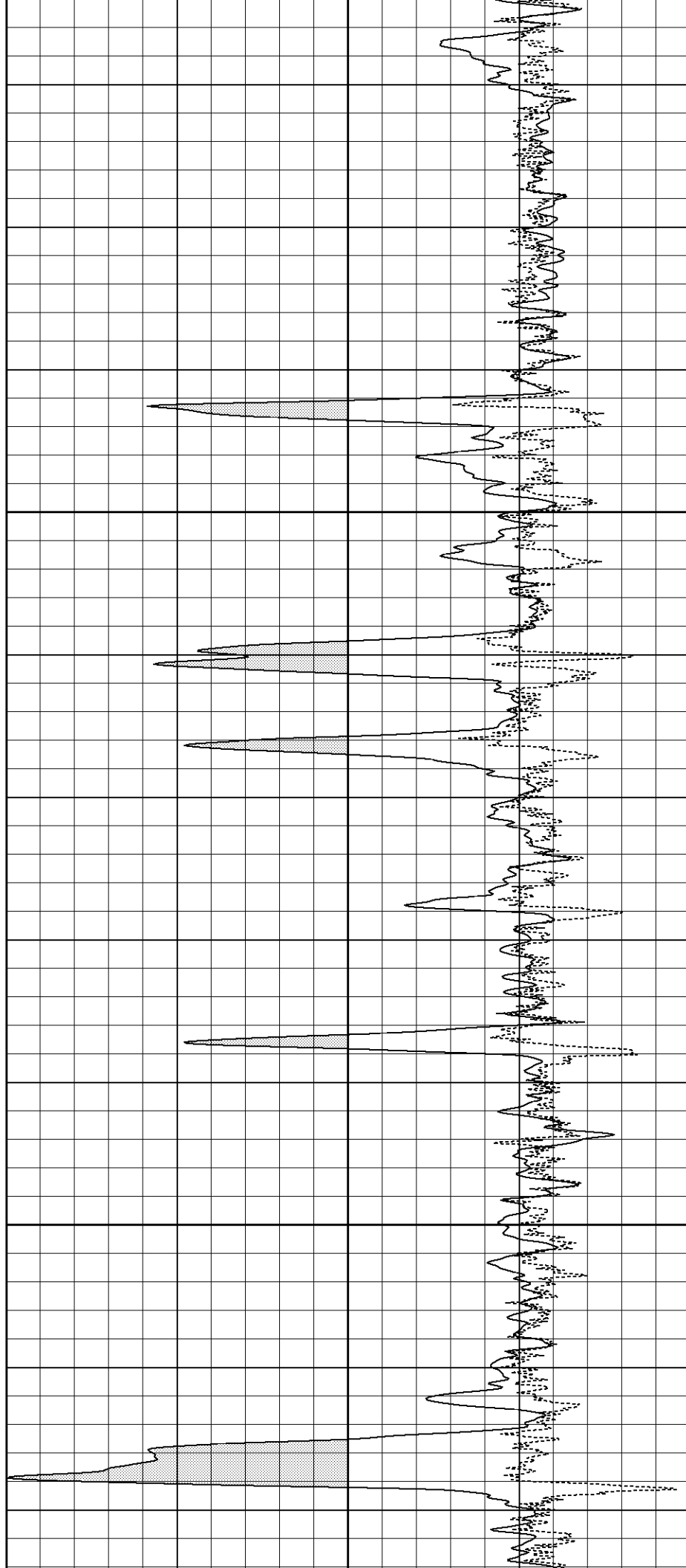
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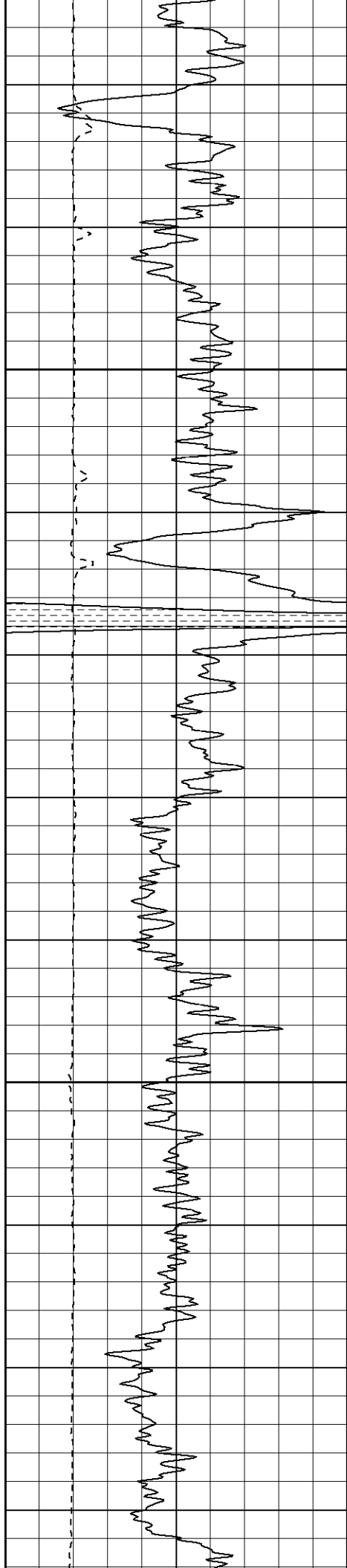




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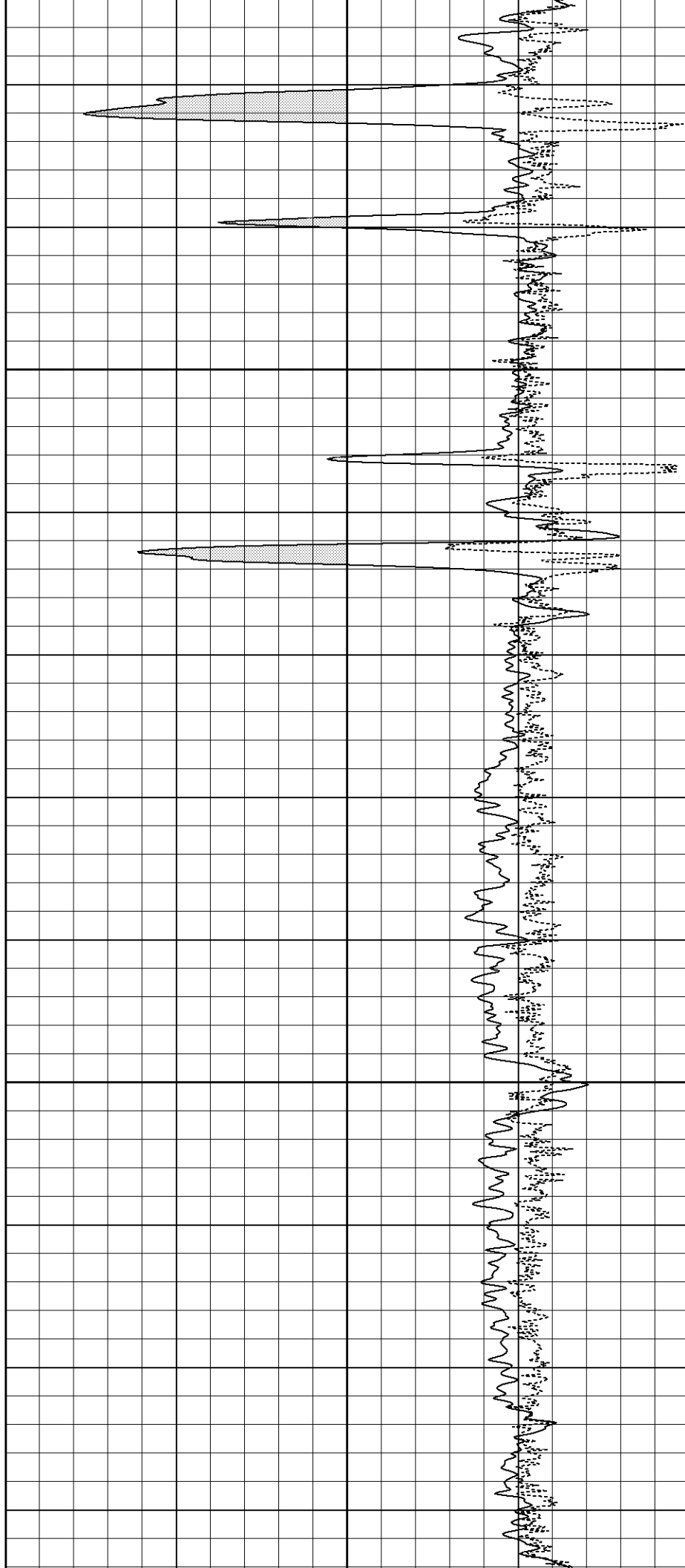
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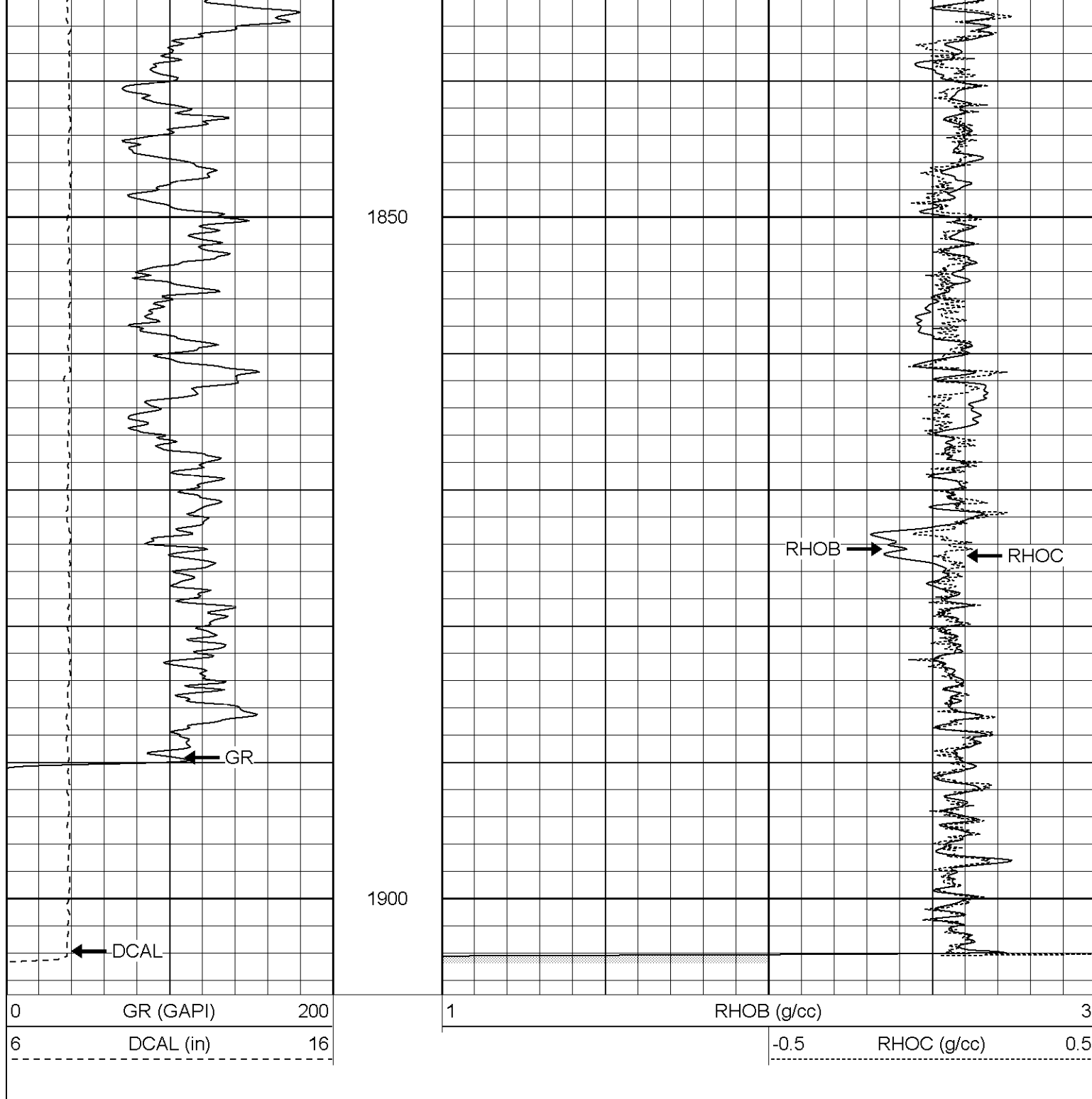




1750

1800





Compensated Density Calibration Report

Serial-Model:	2388-G
Source / Verifier:	csv-j12 / blocks
Master Calibration Performed:	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			