



SONIC LOG

Company	DNR OIL AND GAS, INC.		
Well	ZUEGE #13-23		
Field	UNNAMED		
County	CHEYENNE	State	KANSAS
Location:	API # : 15-023-21511-0000		Other Services CDL/CNL/DIL MEL
Permanent Datum	SEC 23 TWP 1S RGE 41W	GROUND LEVEL	Elevation
Log Measured From	2065' FSL & 165' FWL	KELLY BUSHING 5' A.G.L.	K.B. 3583
Drilling Measured From		KELLY BUSHING	D.F. 3581
			G.L. 3578
Date	5/11/19		
Run Number	TWO		
Depth Driller	5430		
Depth Logger	5433		
Bottom Logged Interval	5423		
Top Log Interval	00		
Casing Driller	8 5/8" @ 302		
Casing Logger	302		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2/55		
pH / Fluid Loss	10.5/6.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.4 @ 59F		
Rmt @ Meas. Temp	1.05 @ 59F		
Rmc @ Meas. Temp	1.68 @ 59F		
Source of Rmt / Rmc	MEASURED		
Rm @ BHT	.64 @ 129F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	///		
Maximum Recorded Temperature	129F		
Equipment Number	1523		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	TIM LAUER		

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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

THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395

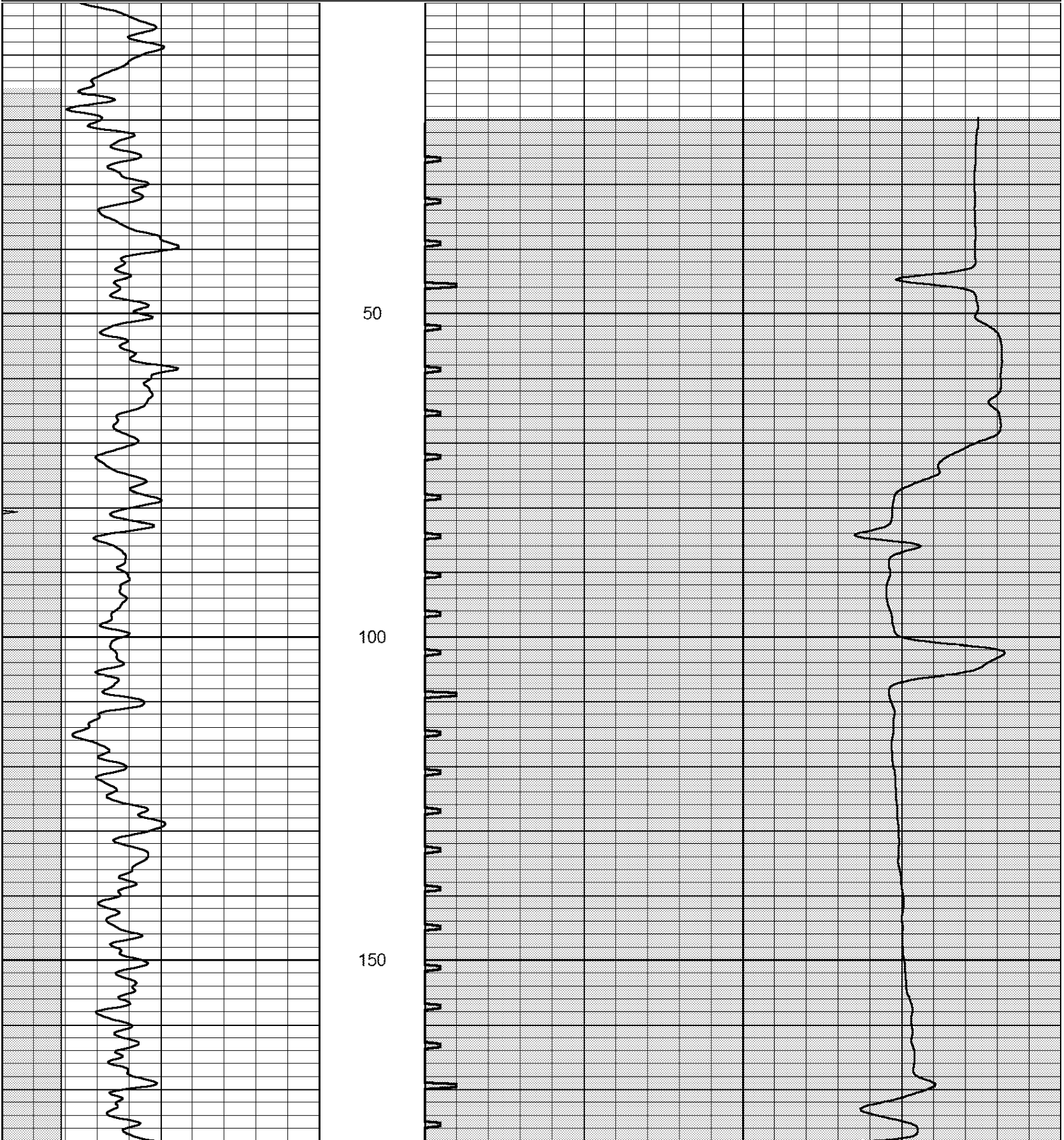
DIRECTIONS
ST. FRANCIS 2 W, 6N, 5W, 6N TO MM 22,
2 E, 1/3 N, E INTO

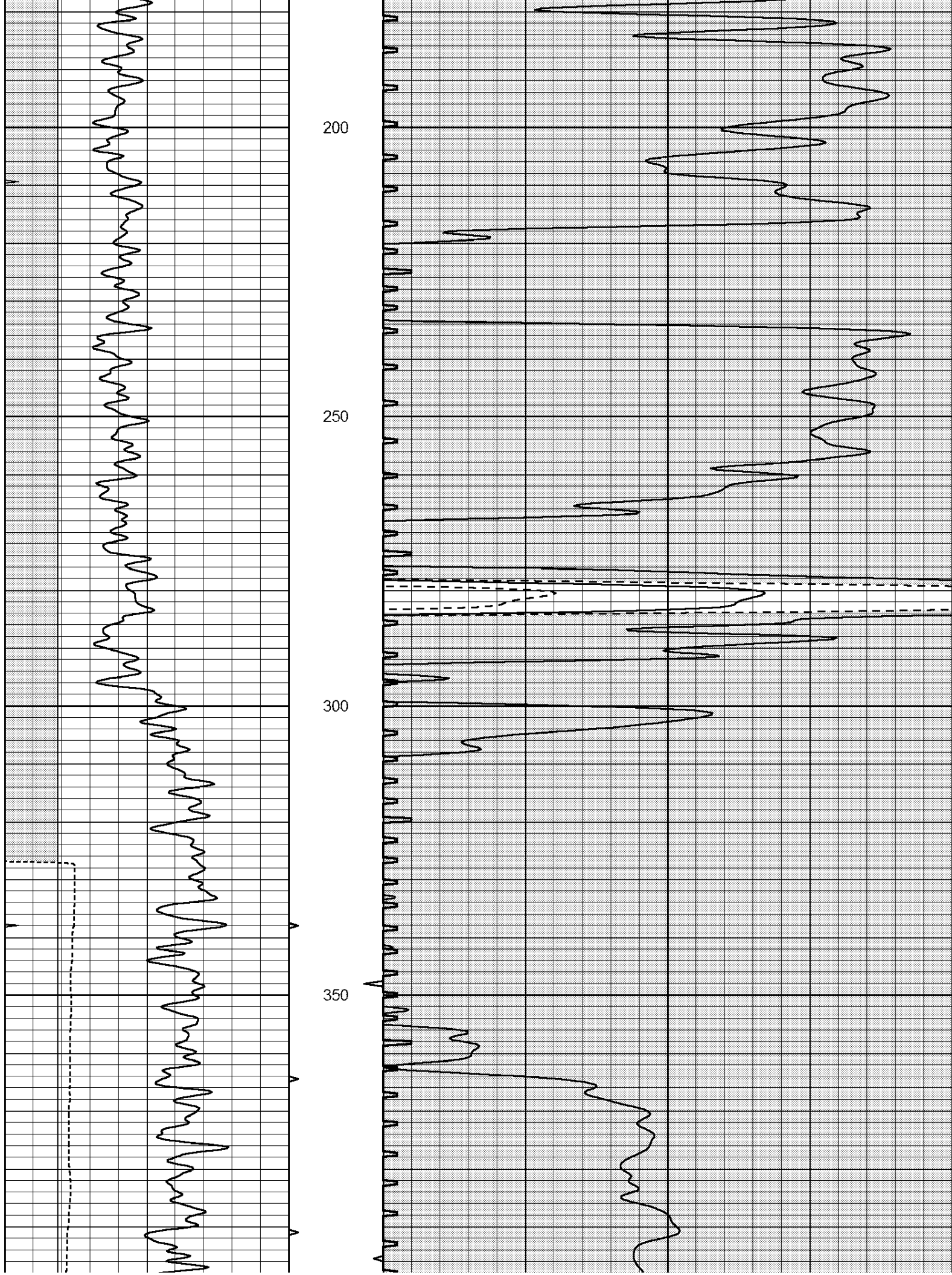


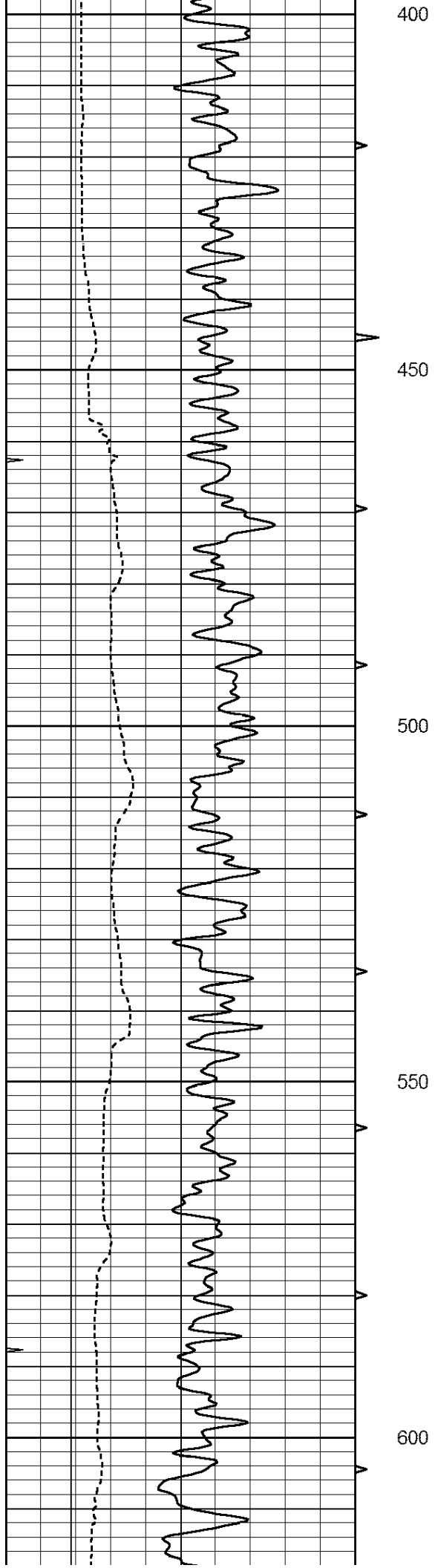
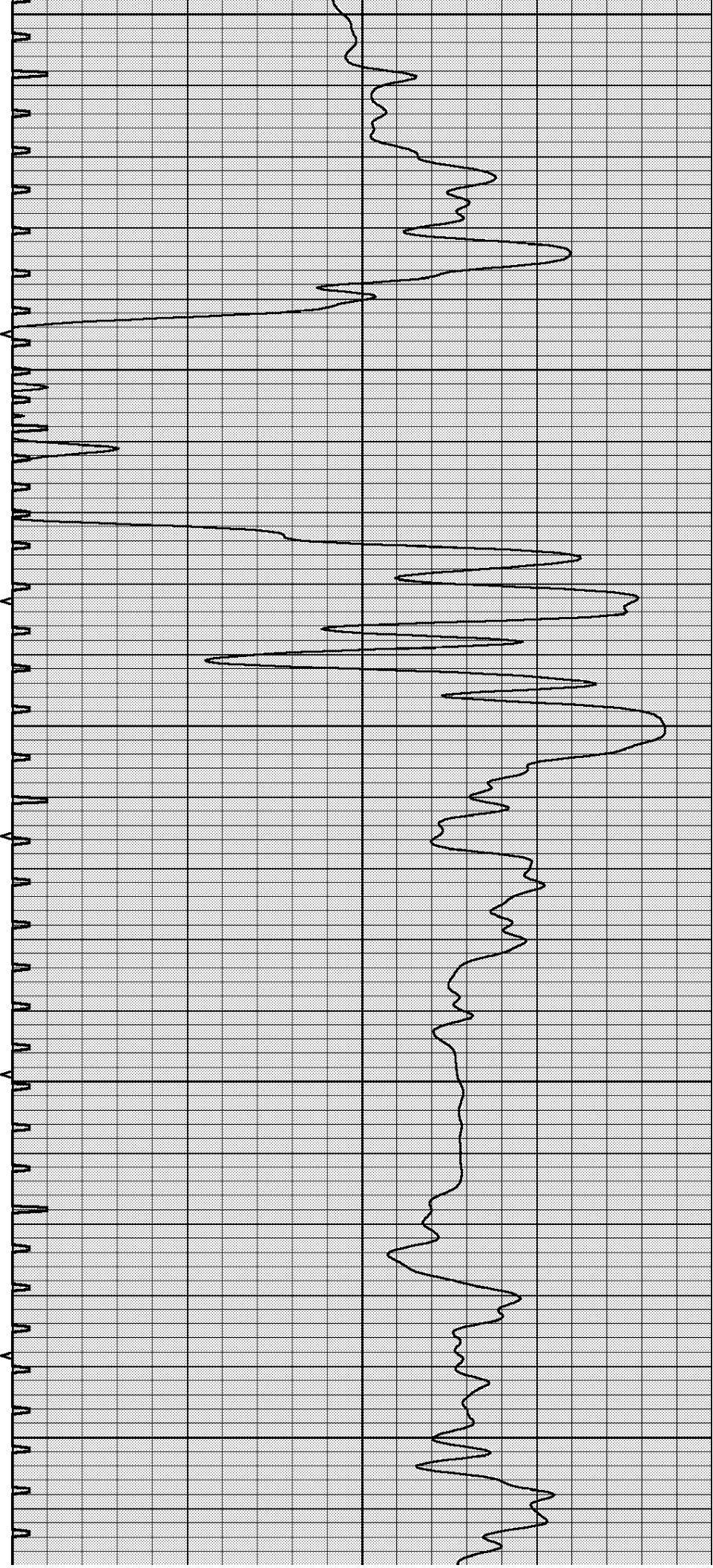
MAIN PASS

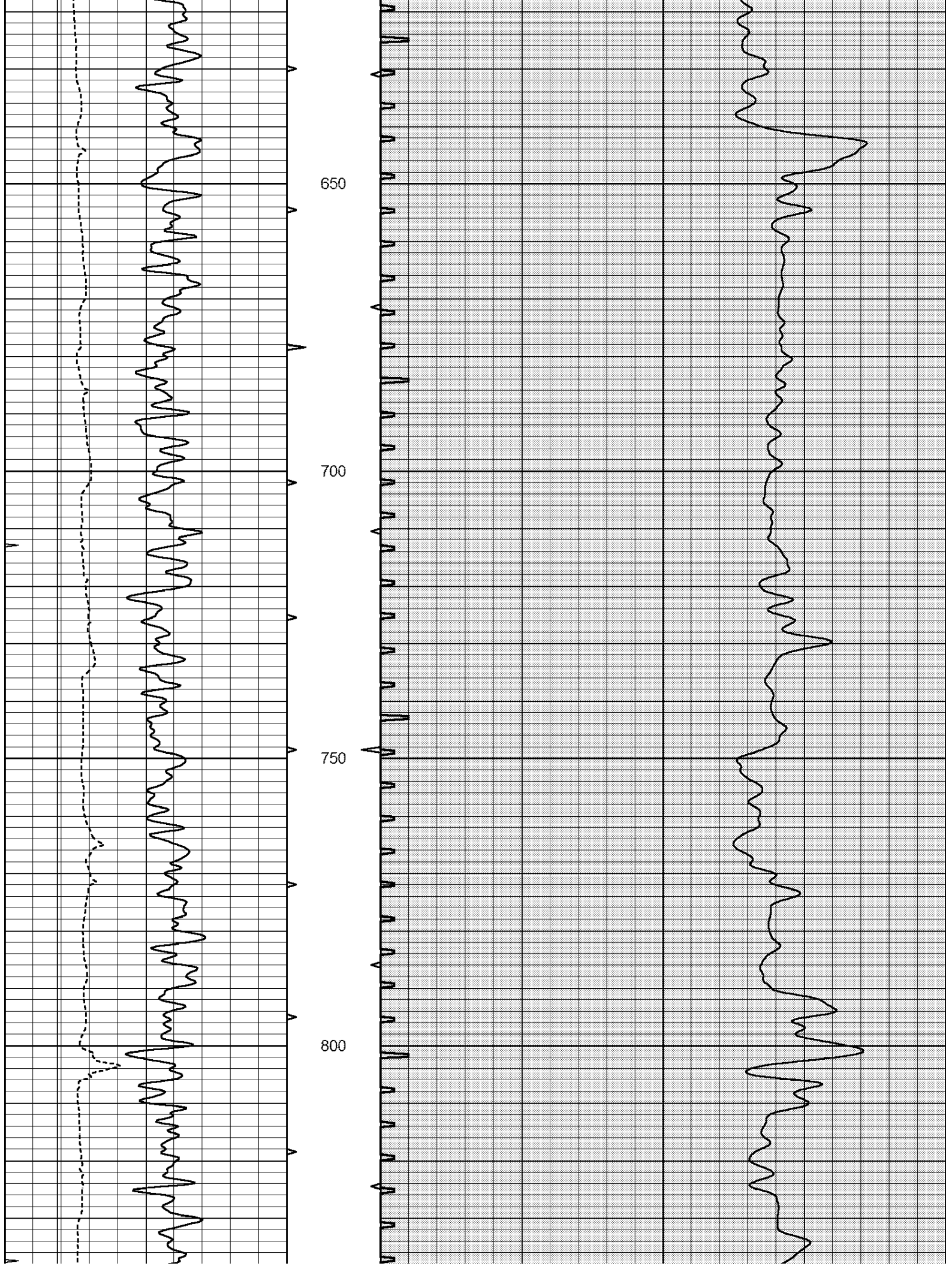
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Presentation Format: _slt
Dataset Creation: Sat May 11 14:40:01 2019
Charted by: Depth in Feet scaled 1:240

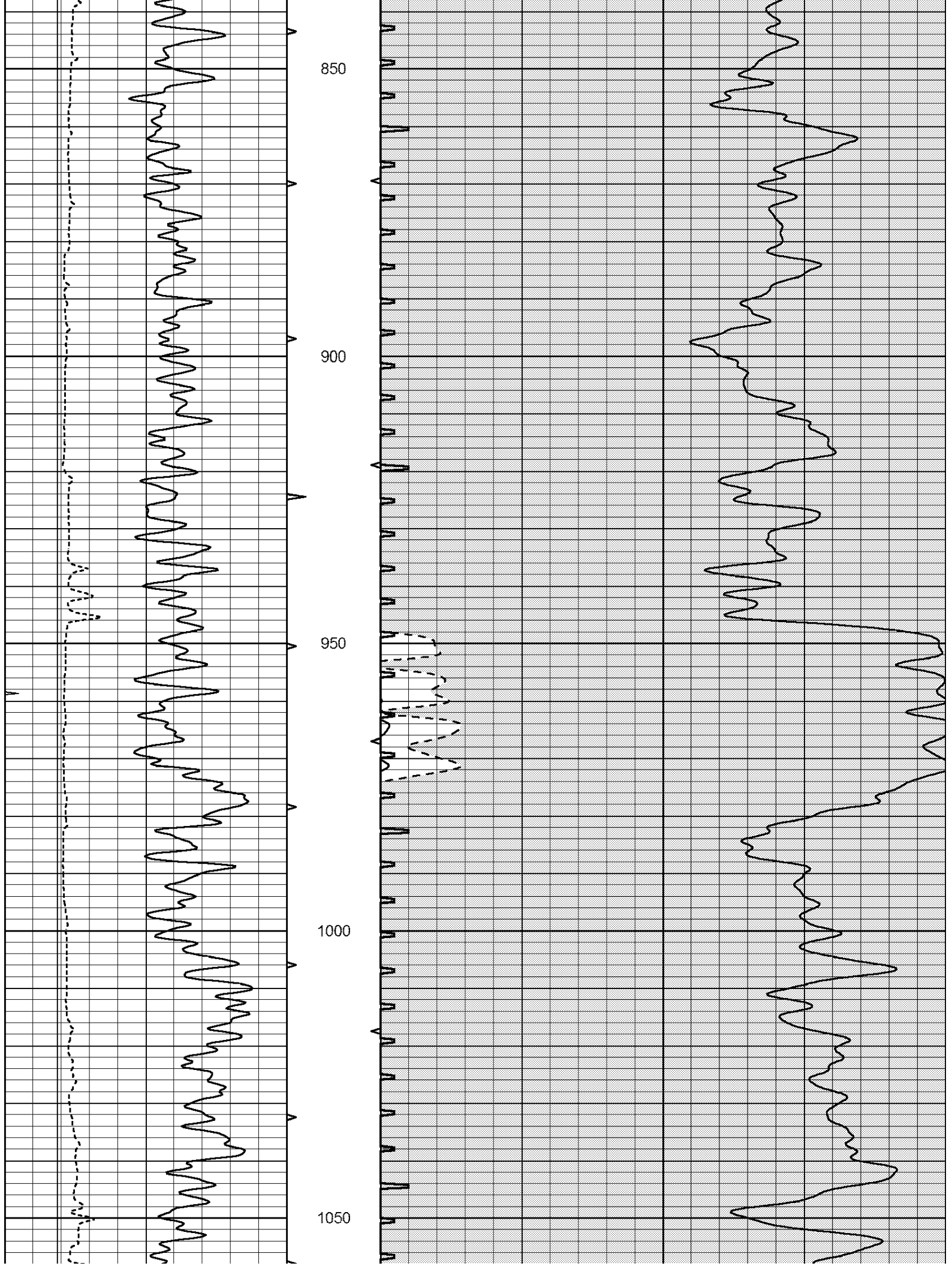
0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3) 10			

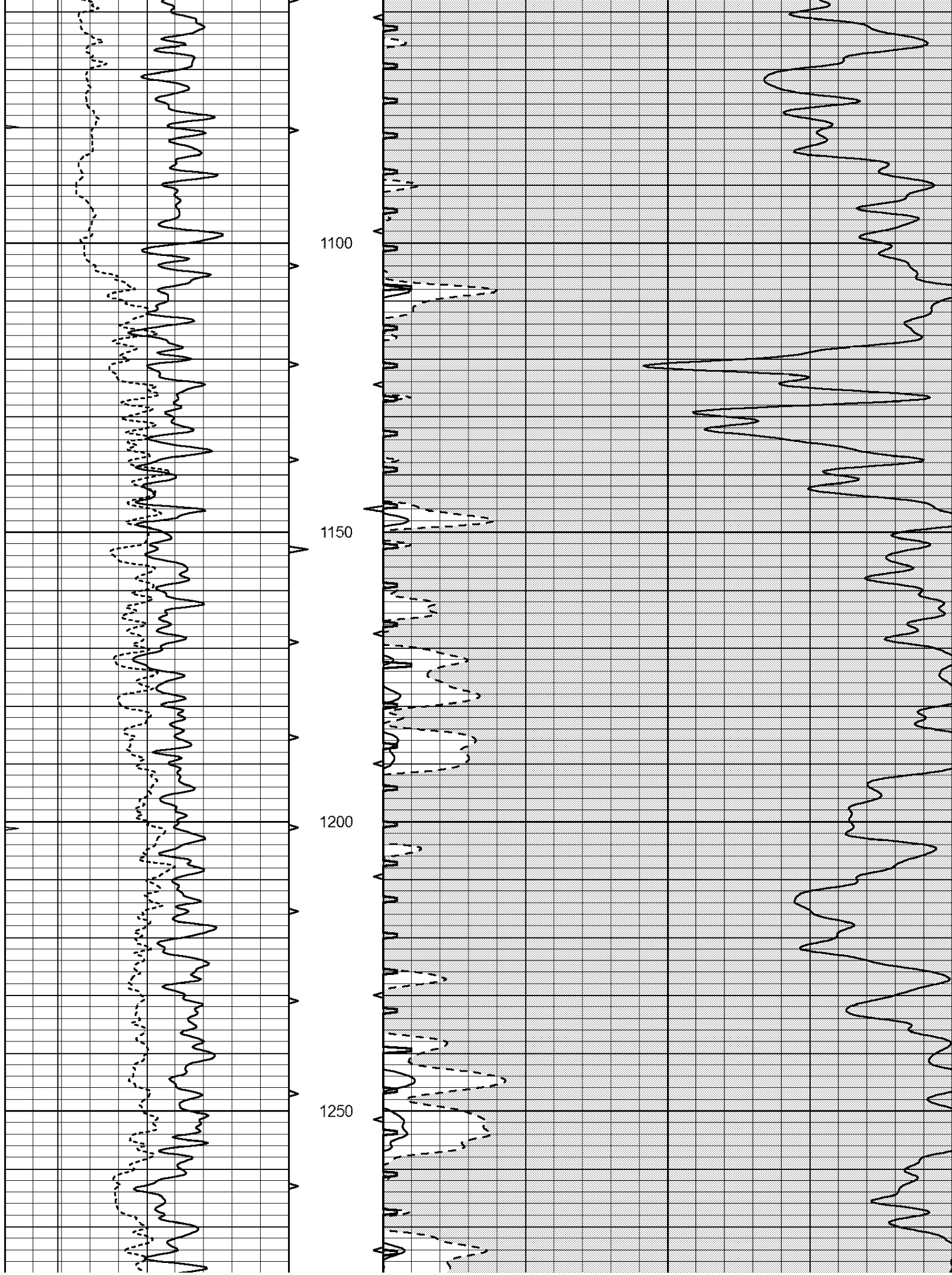


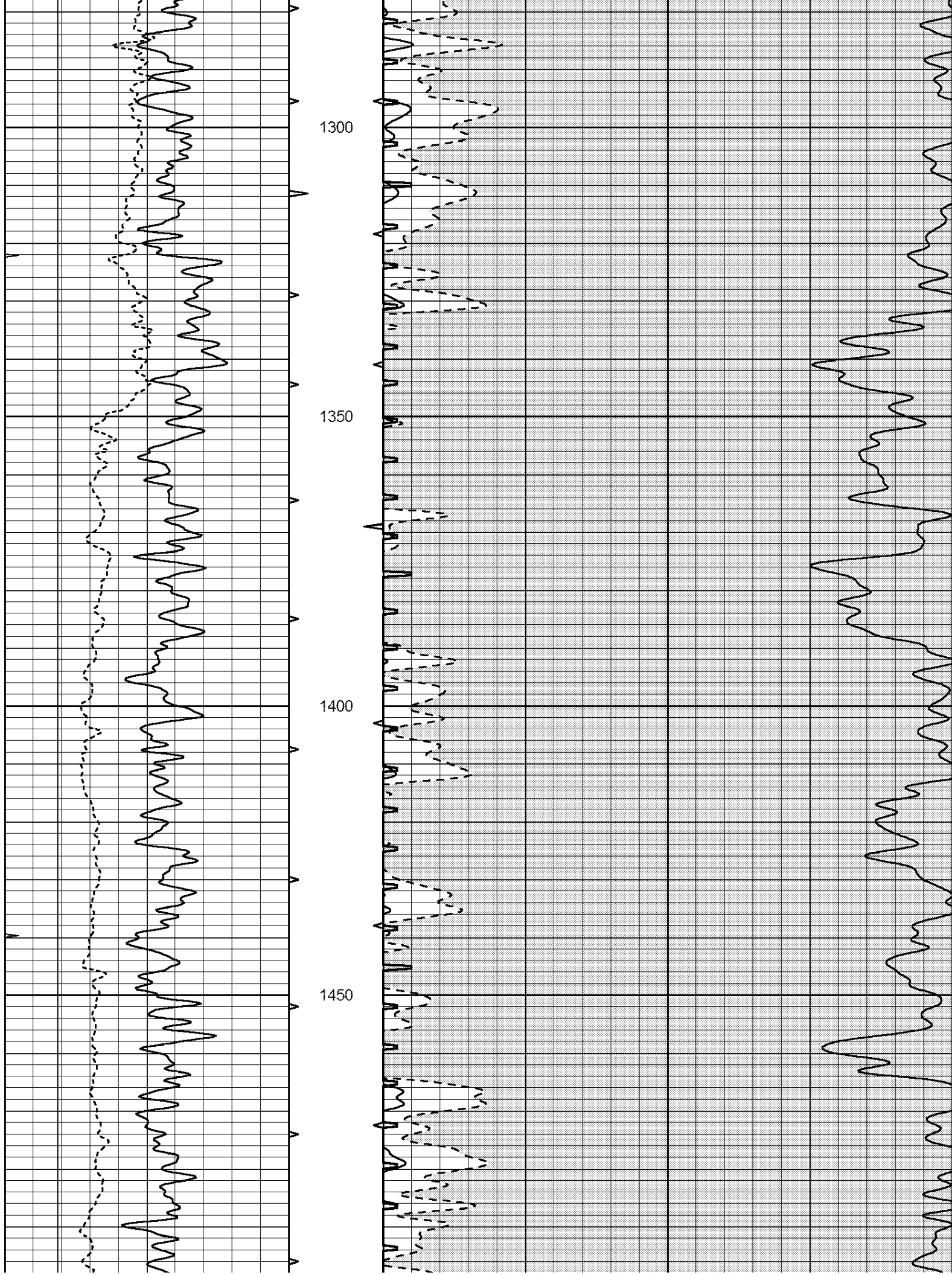


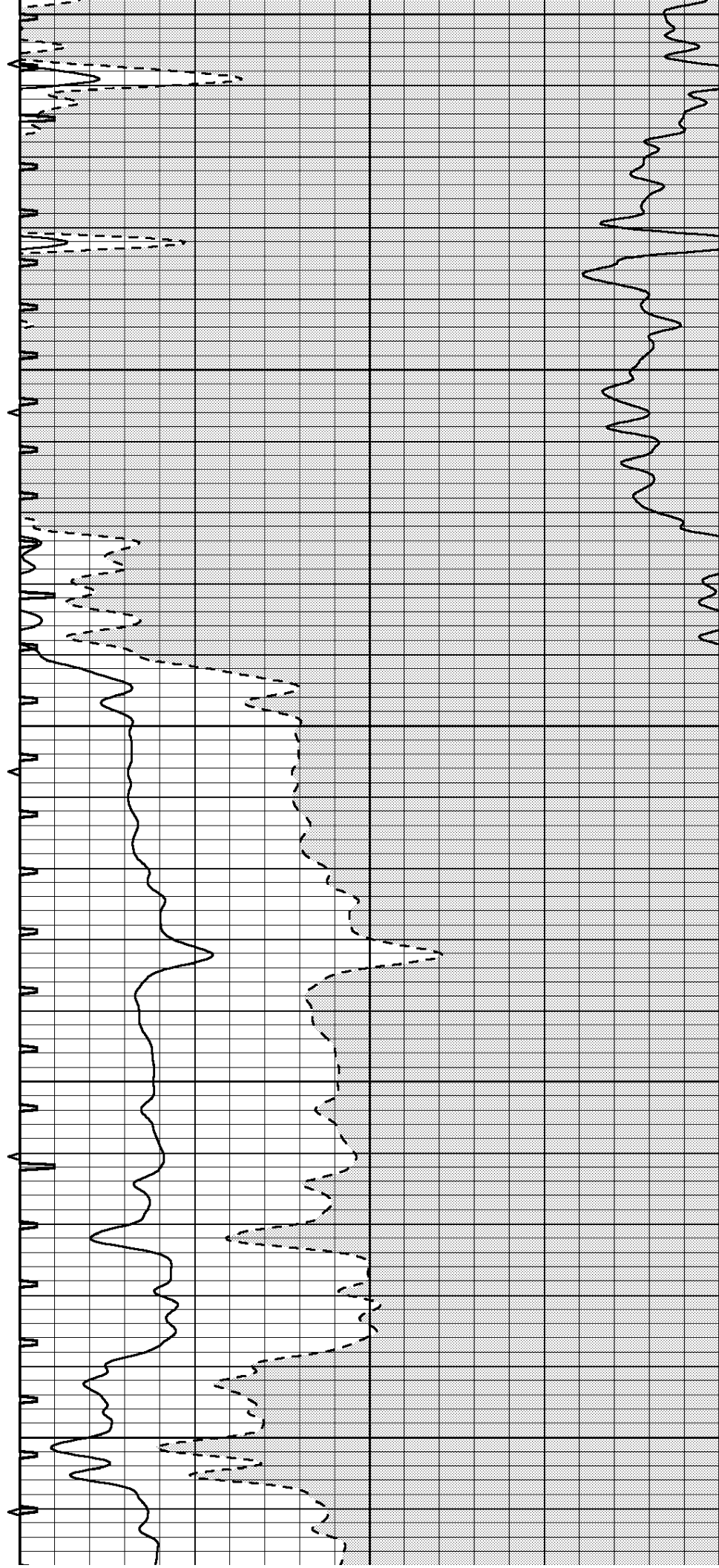
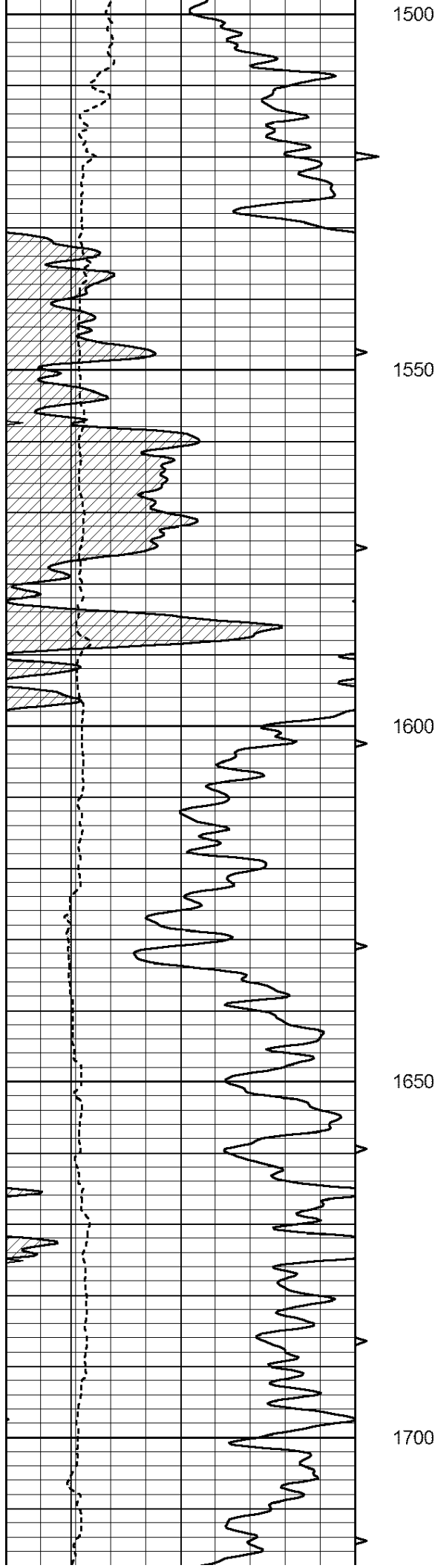


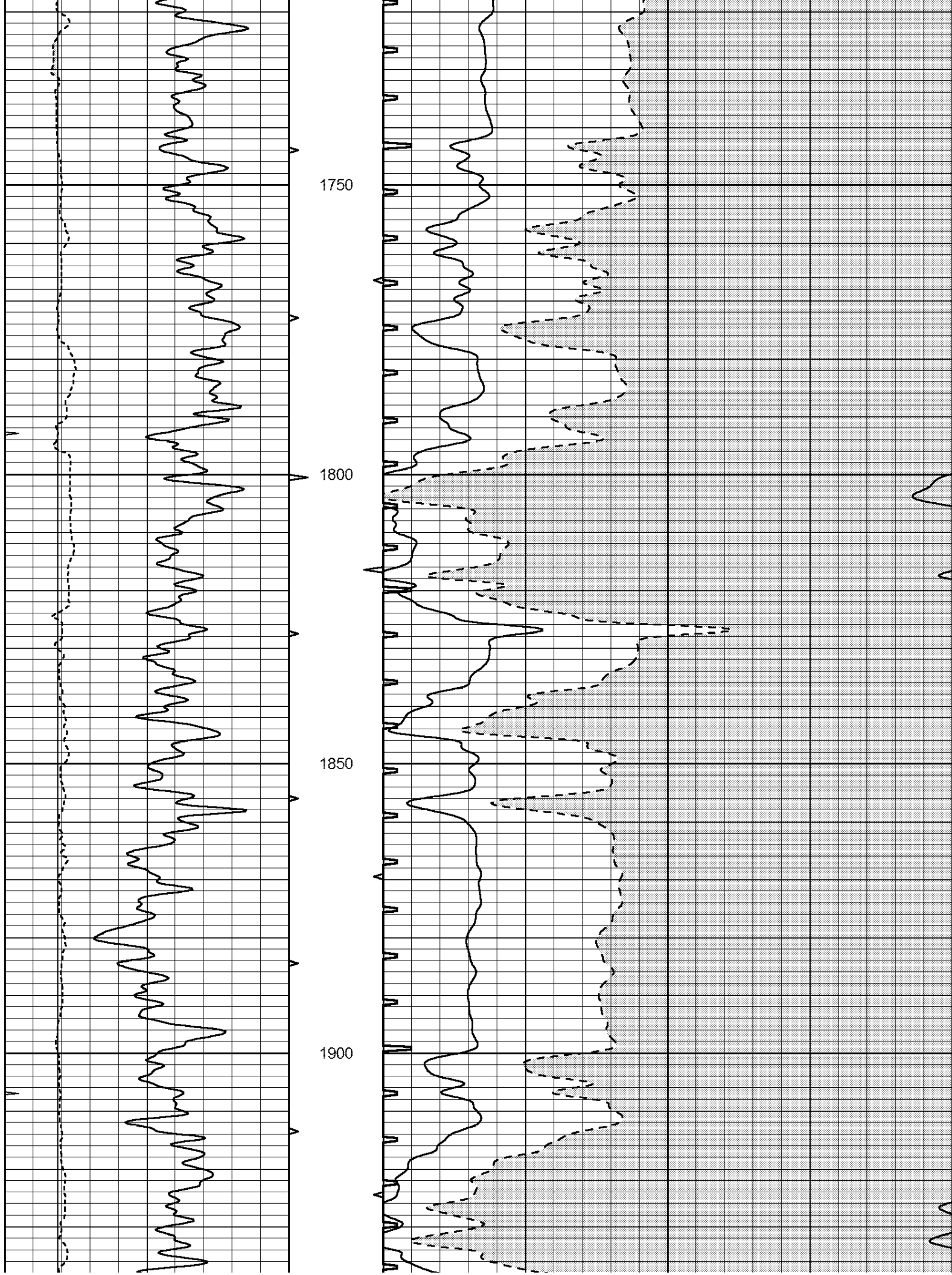


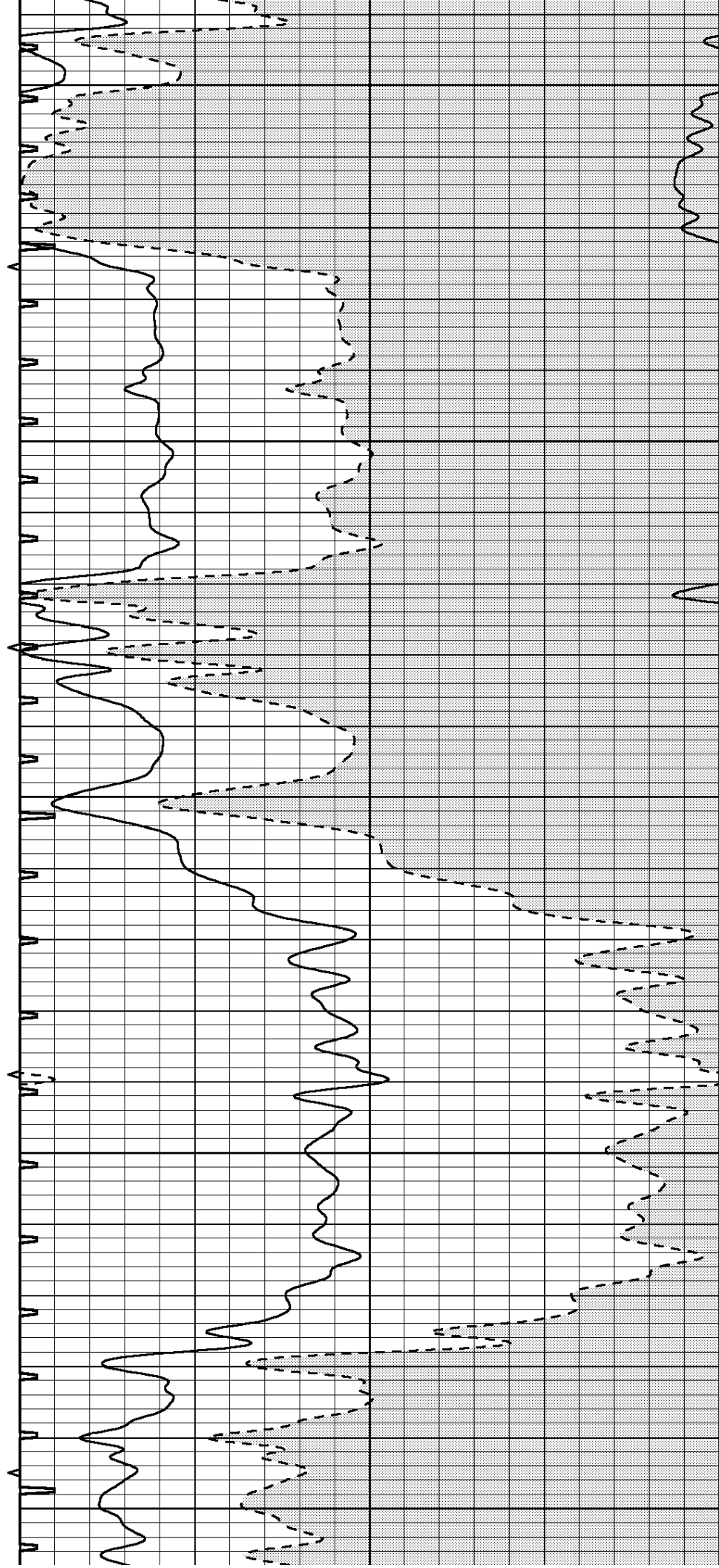
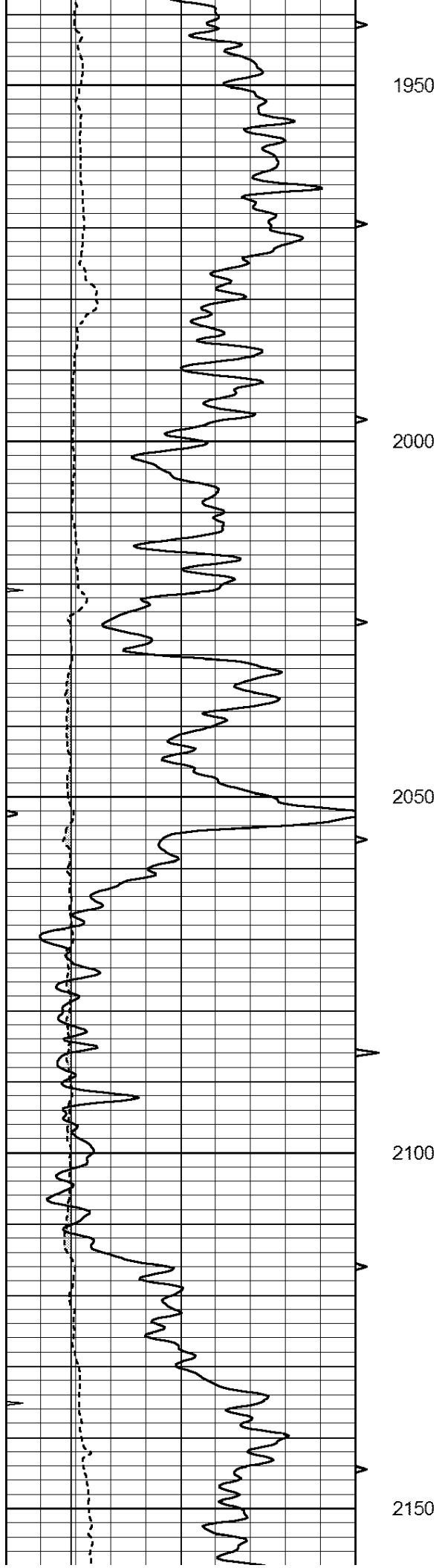


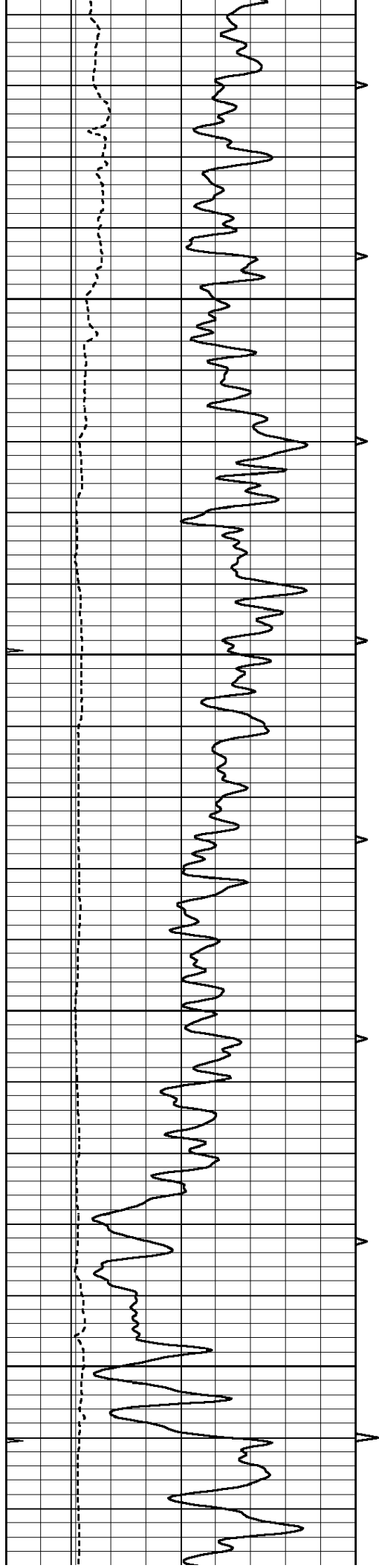










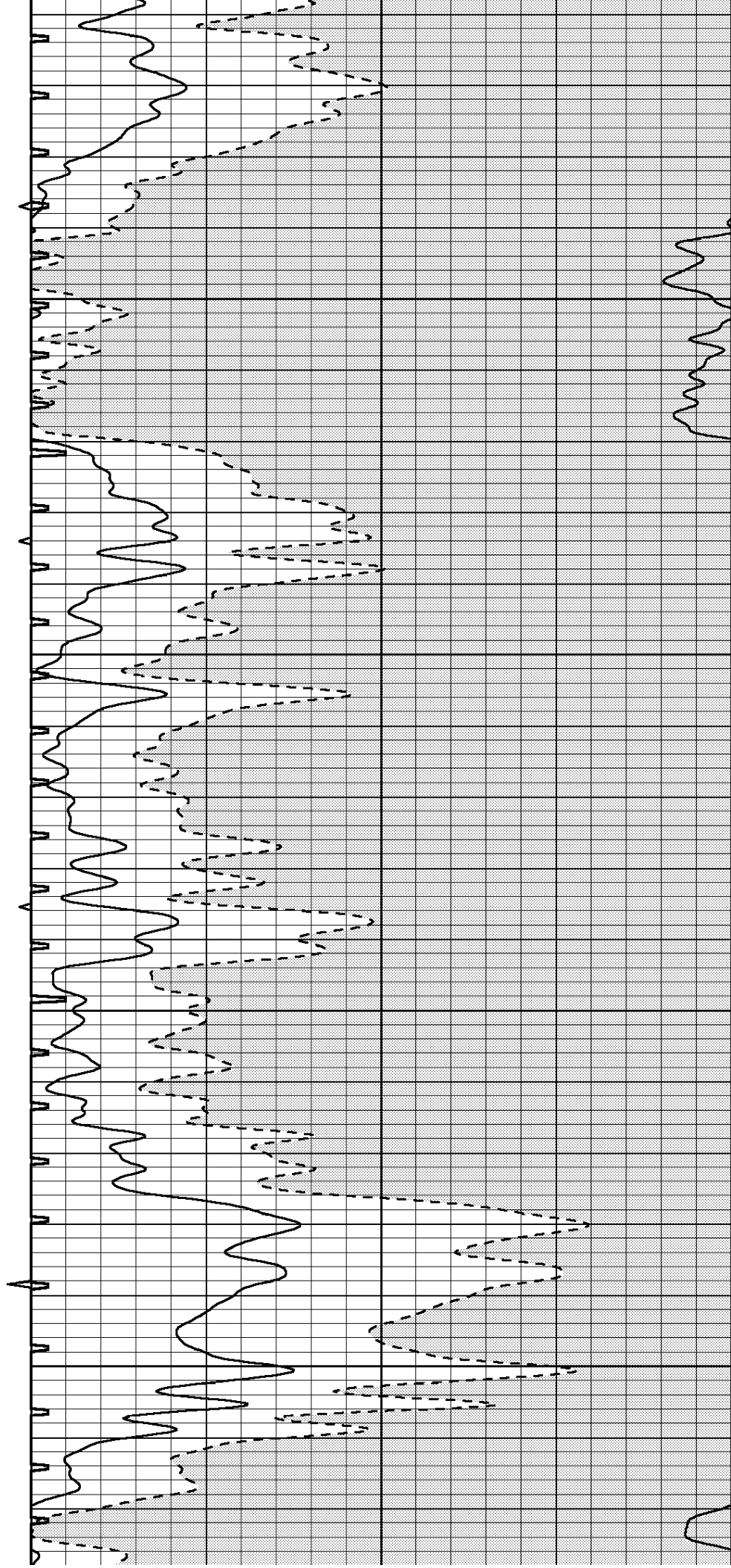


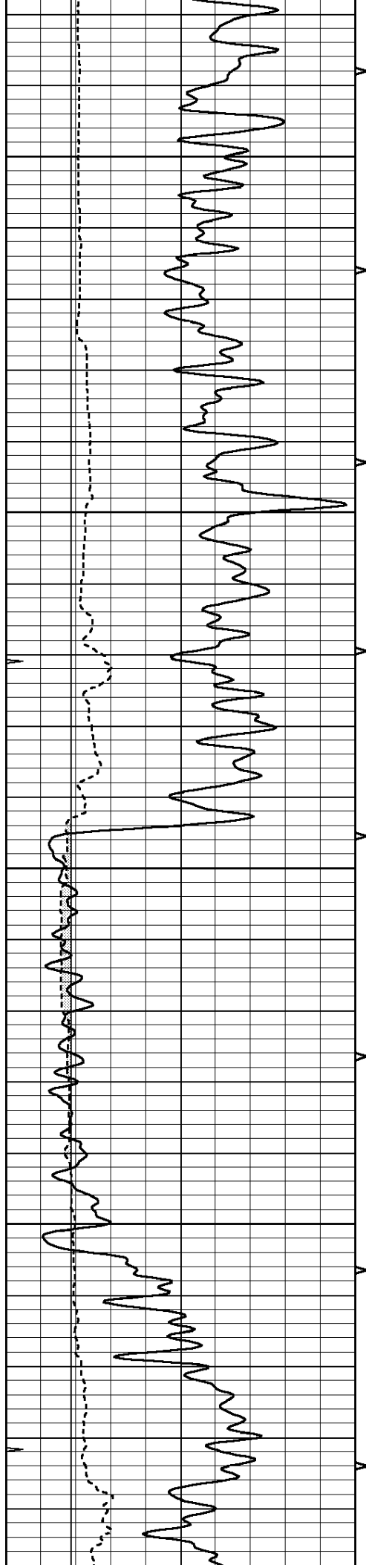
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2250

300

350



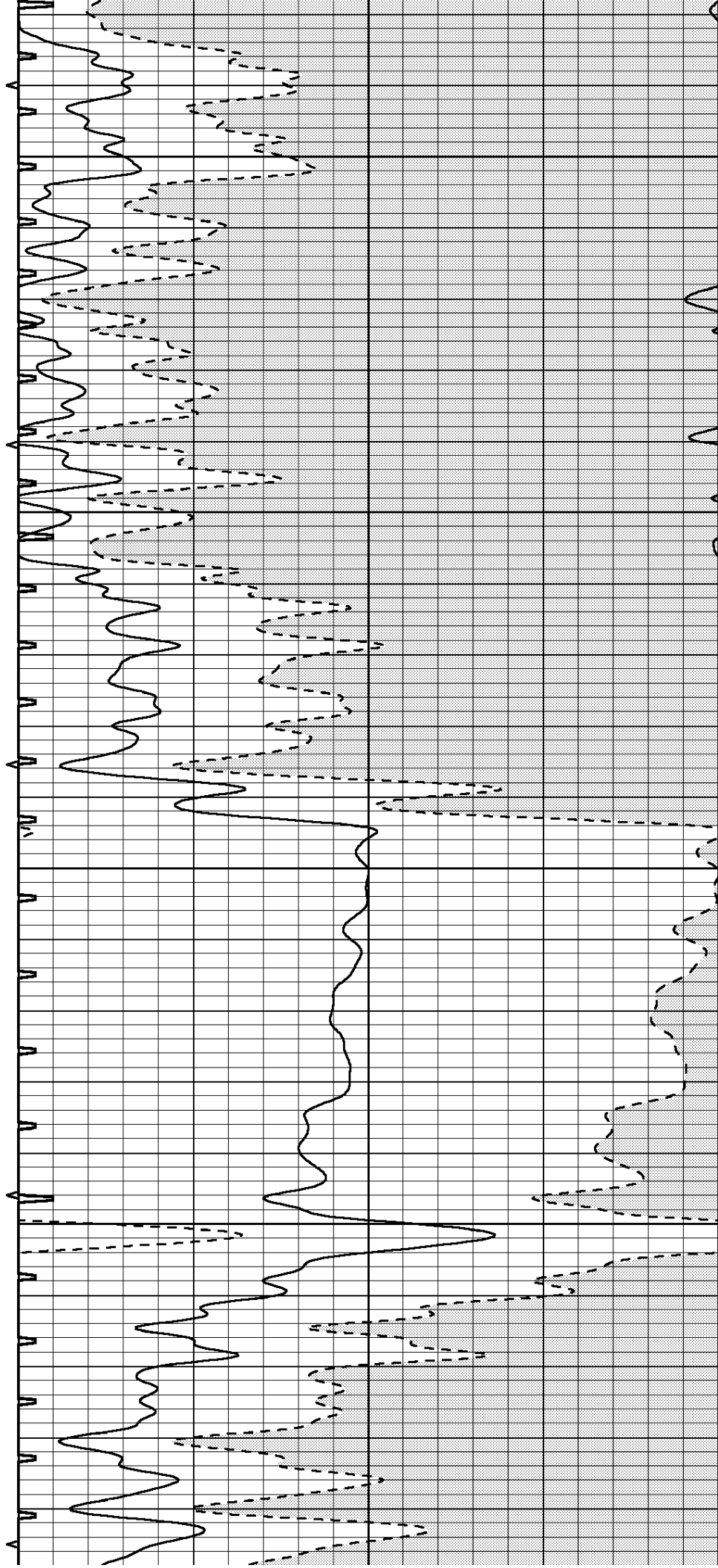


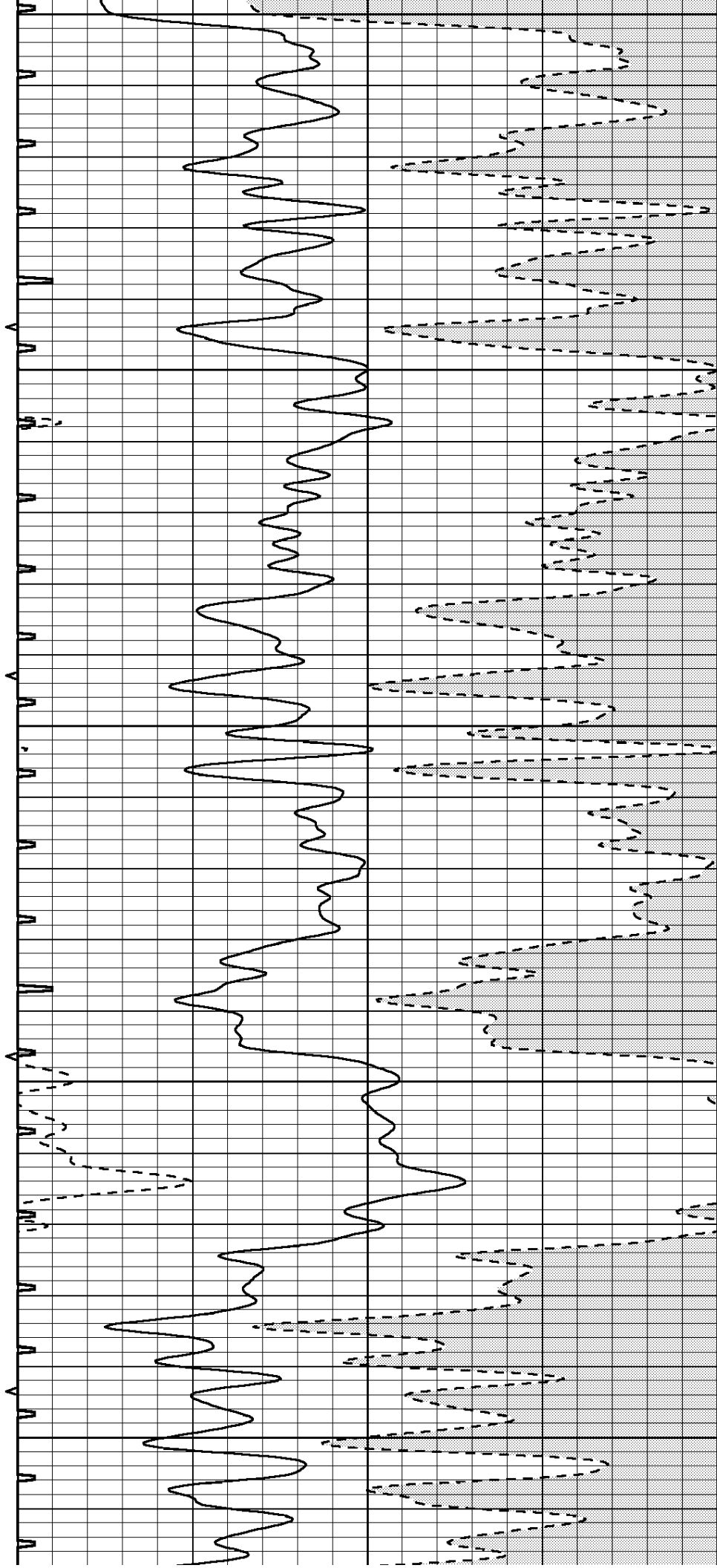
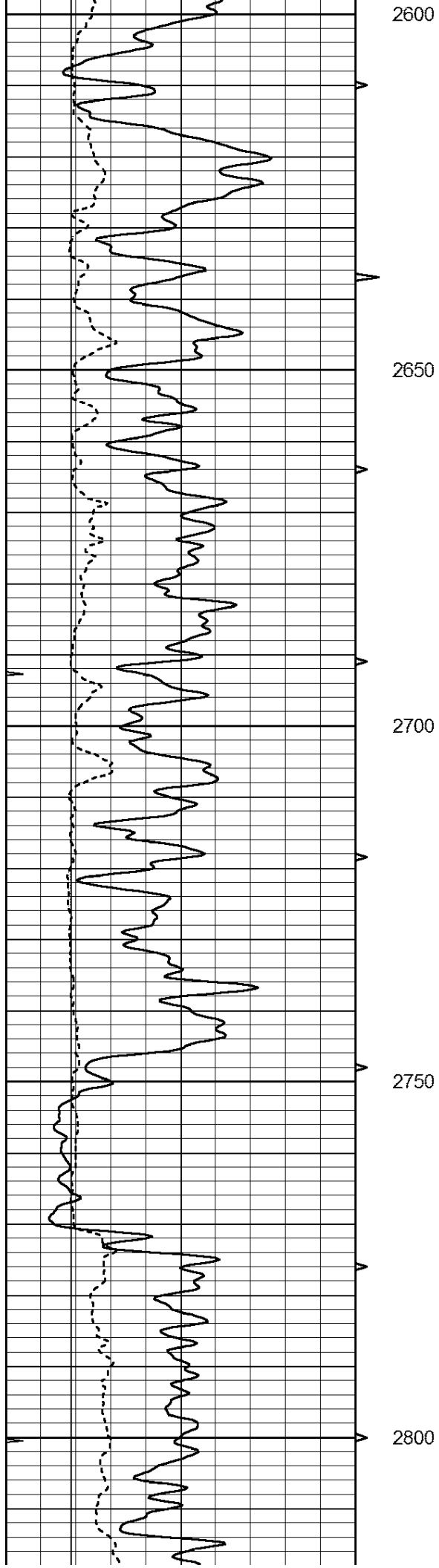
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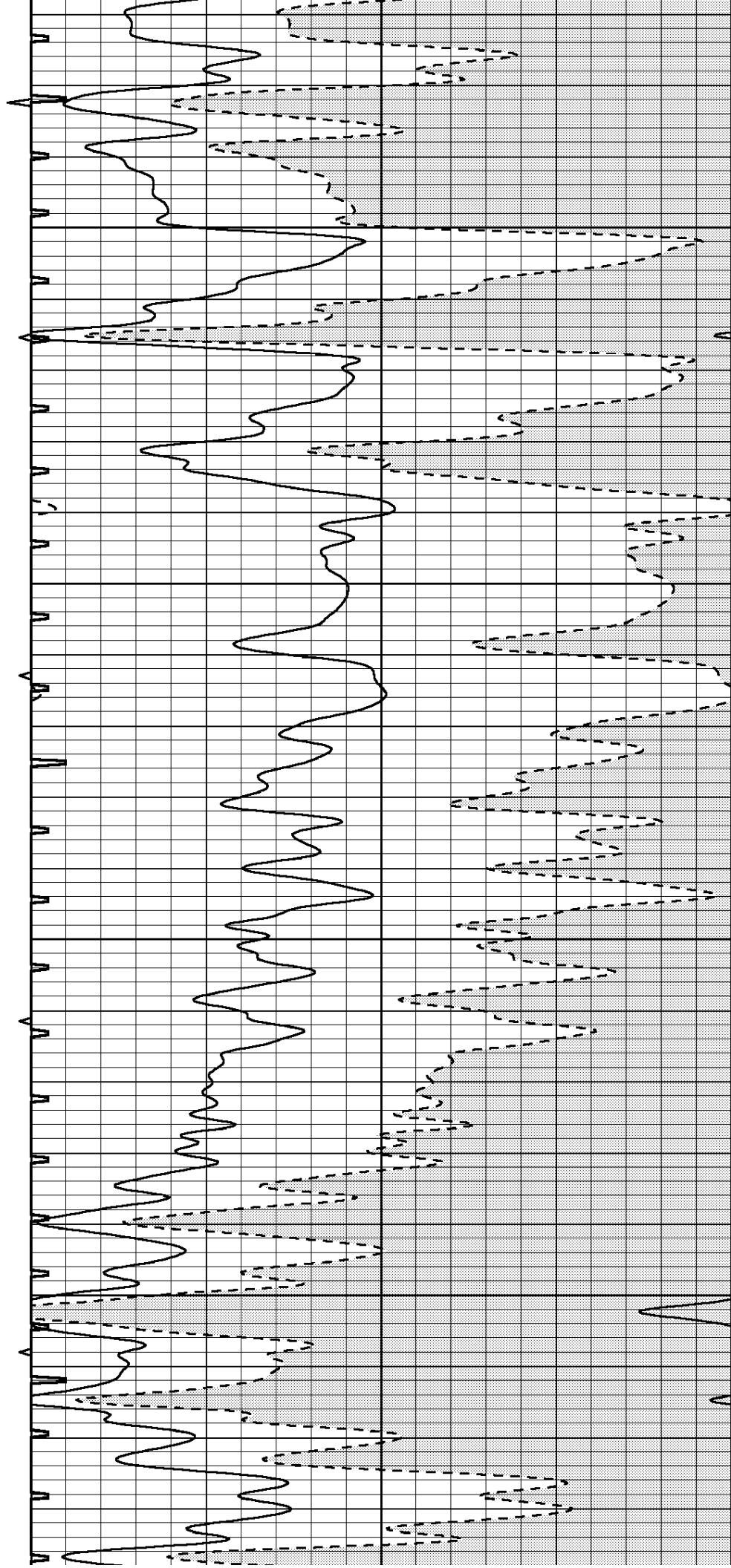
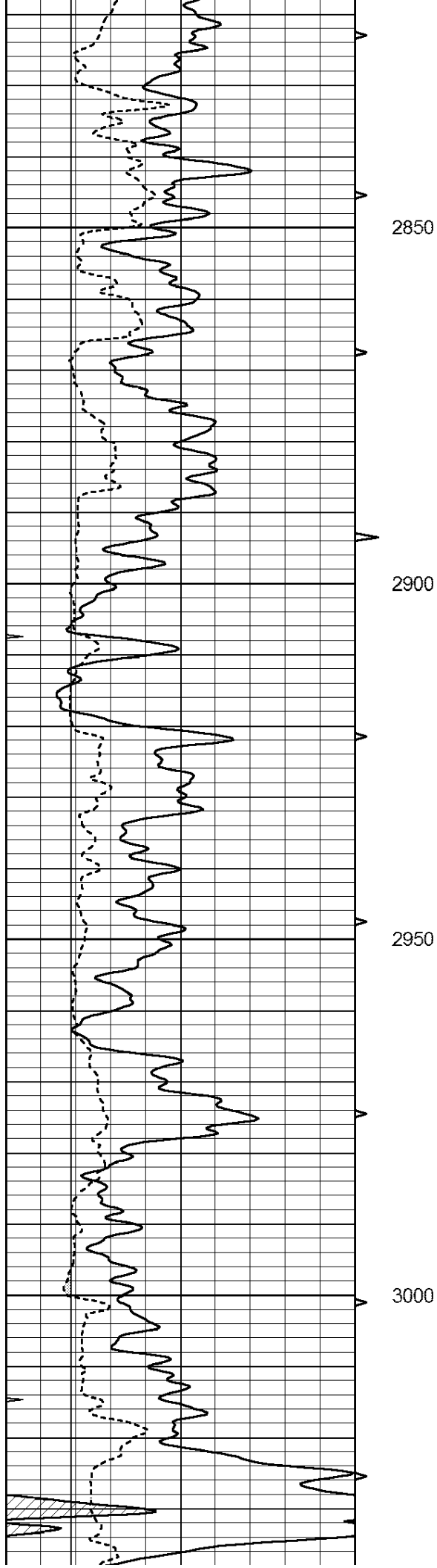
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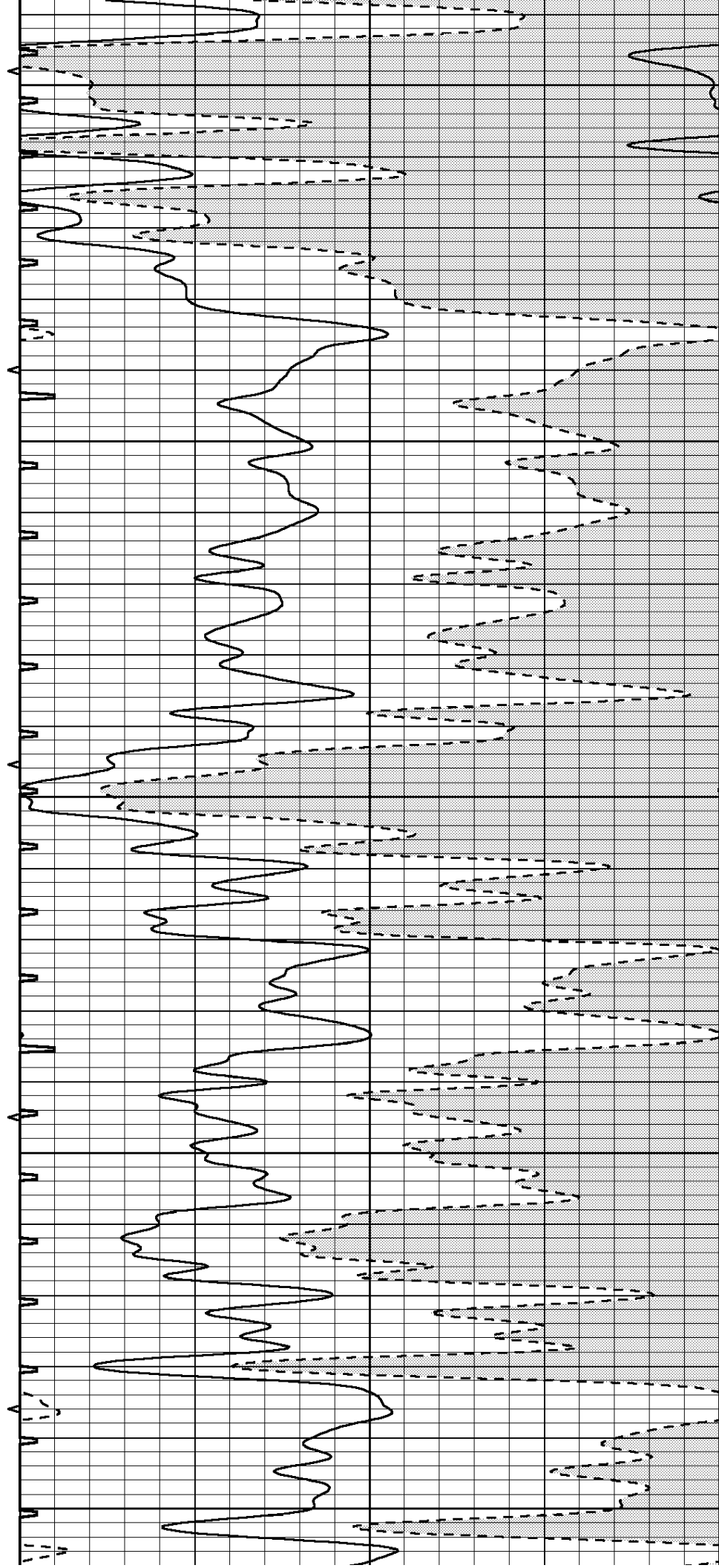
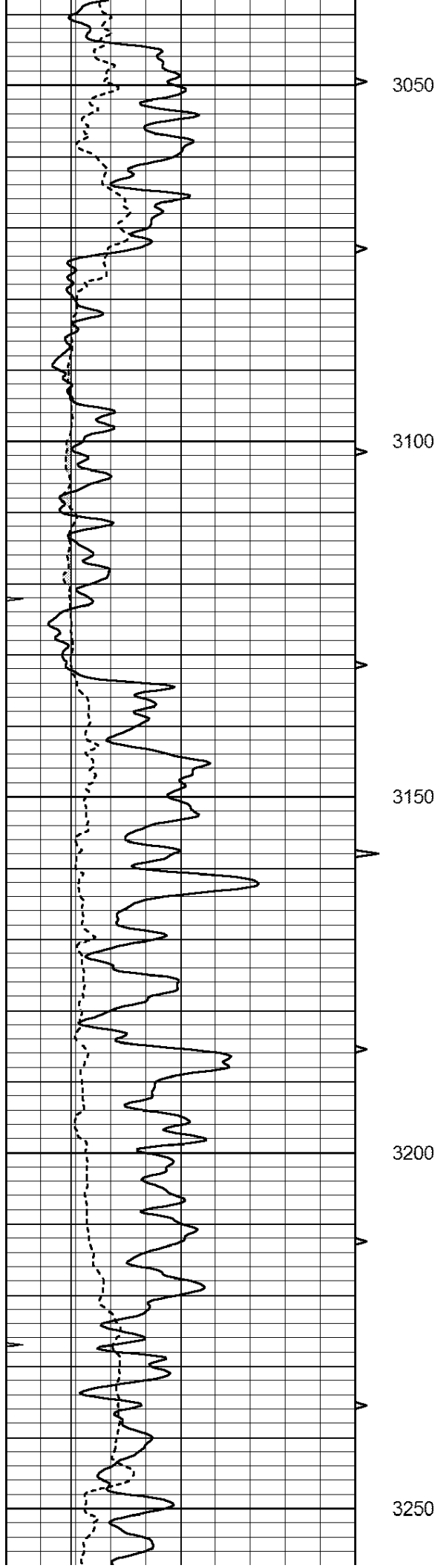
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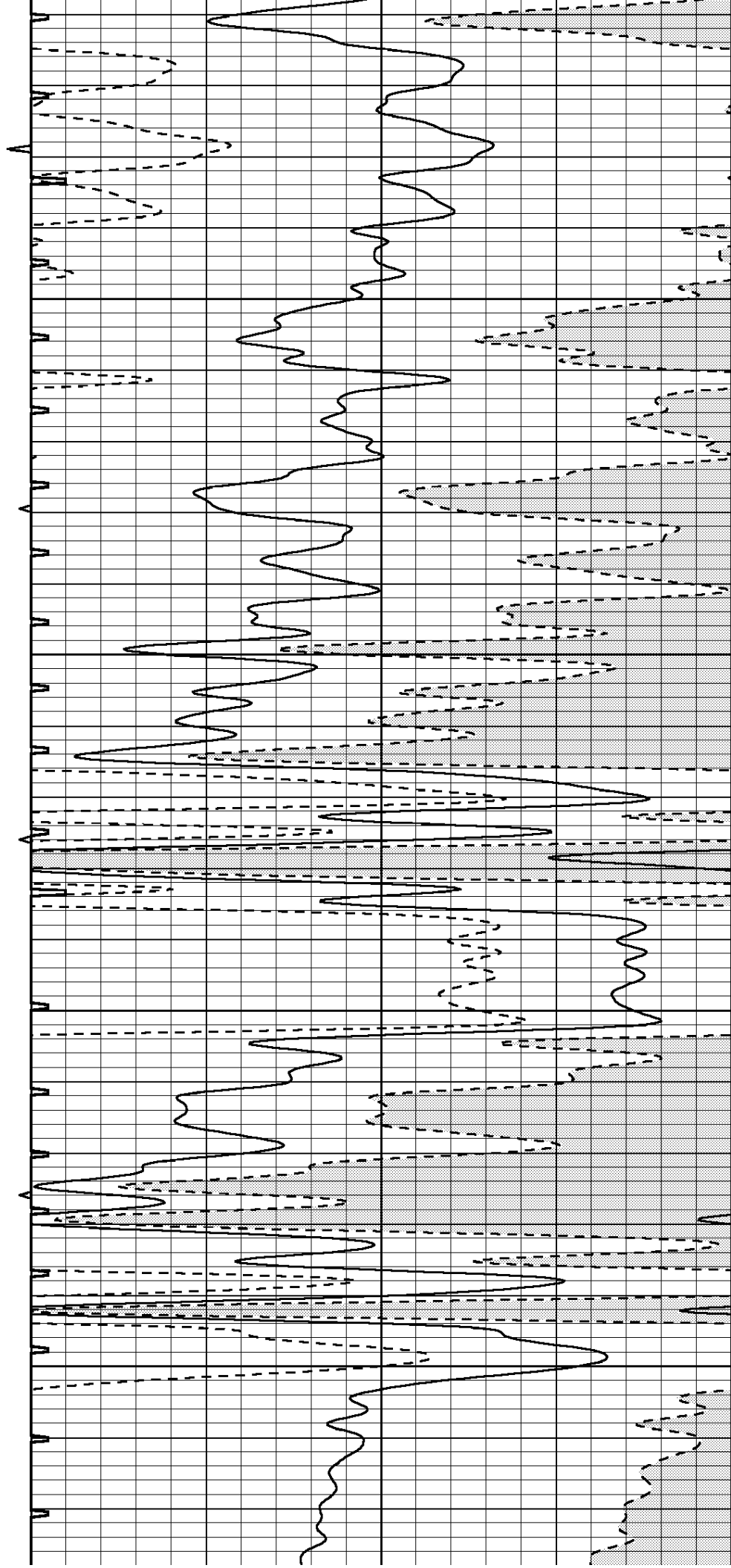
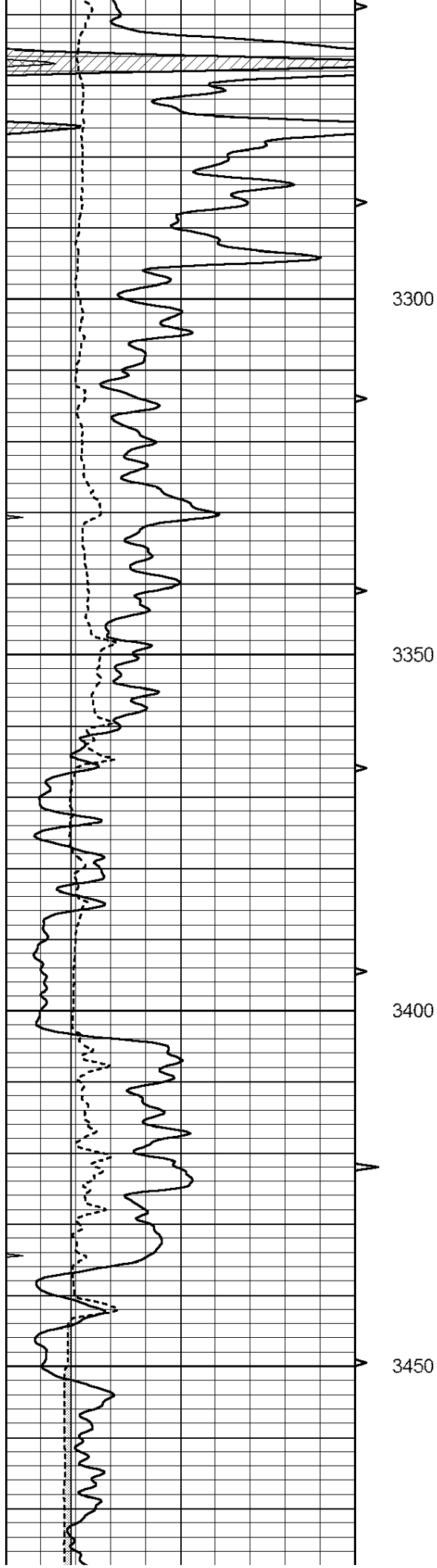
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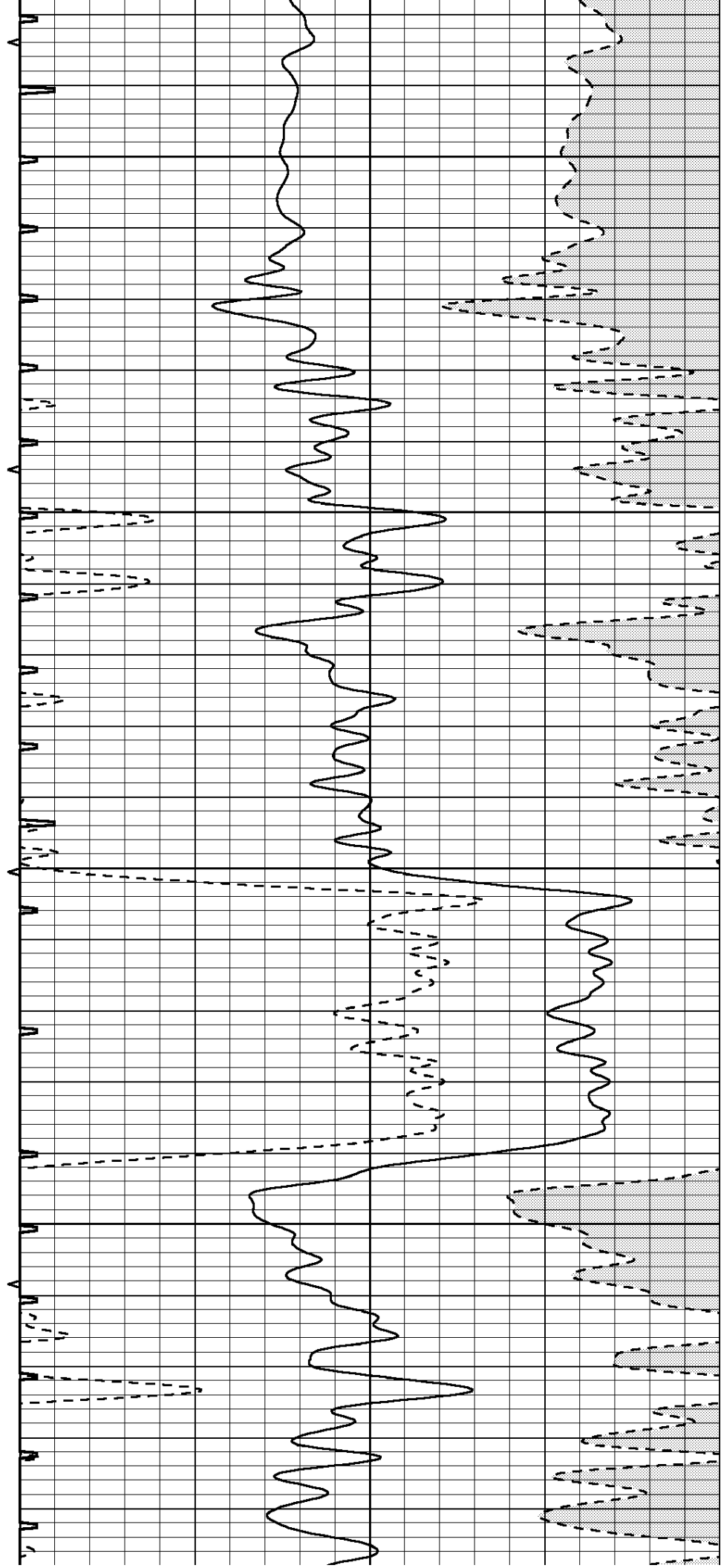
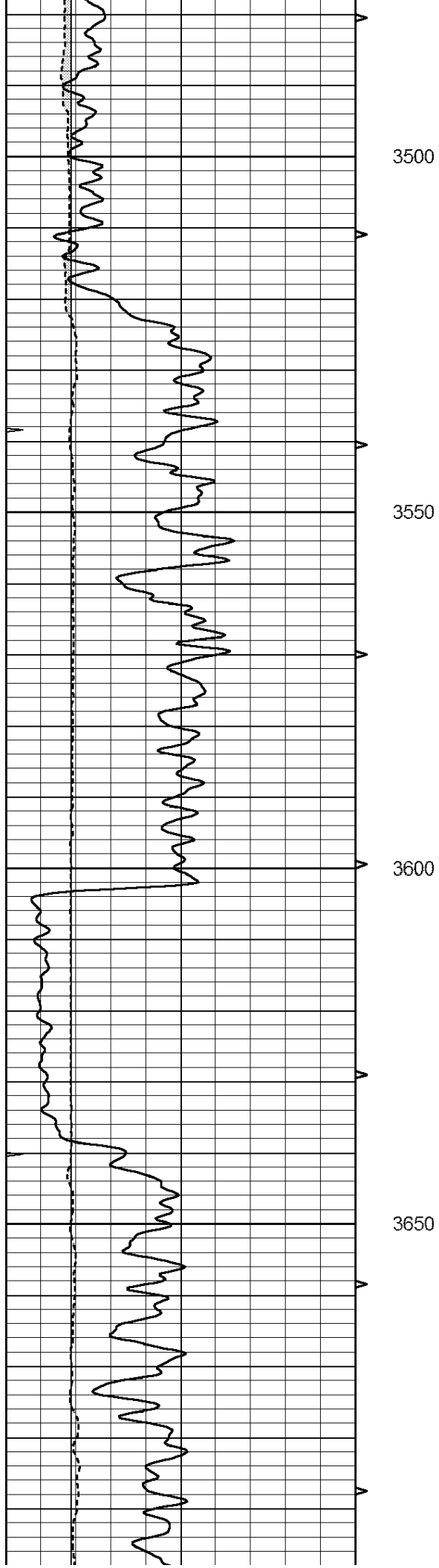


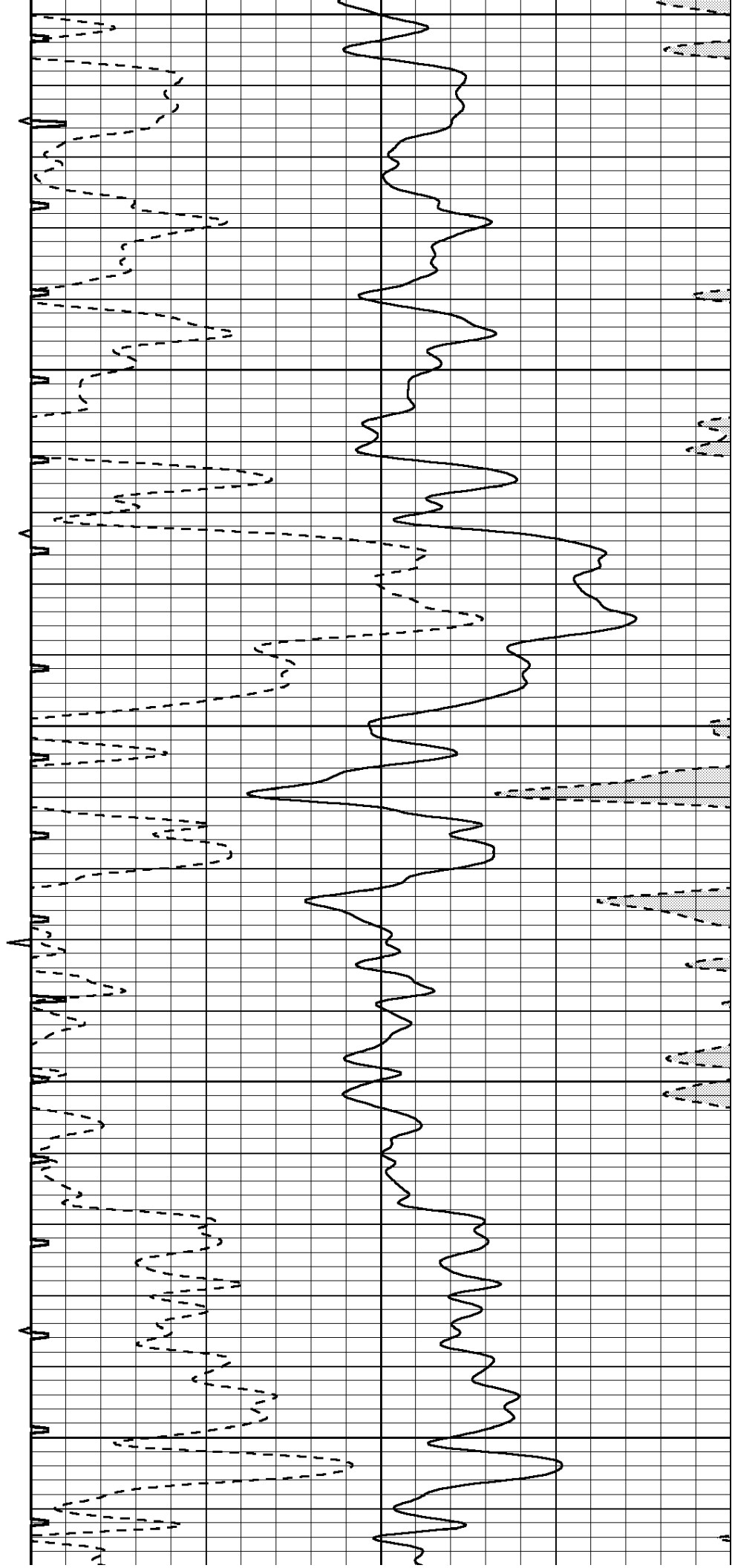
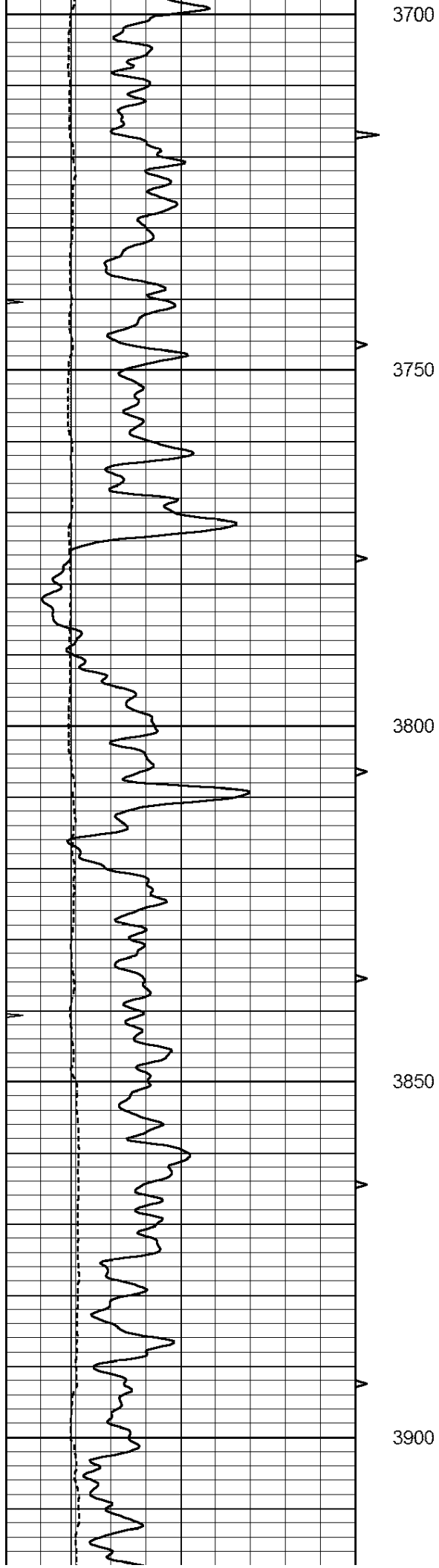


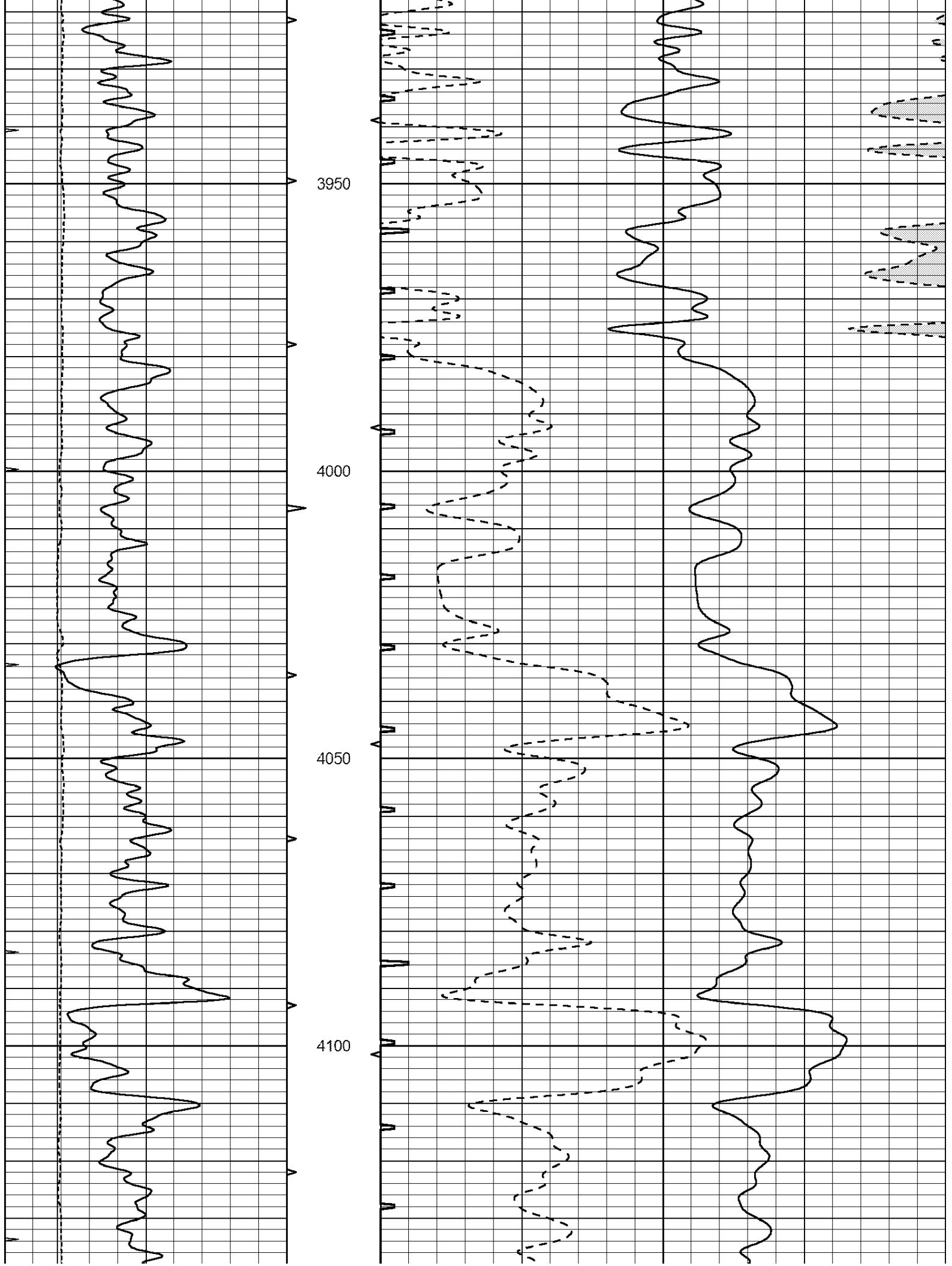


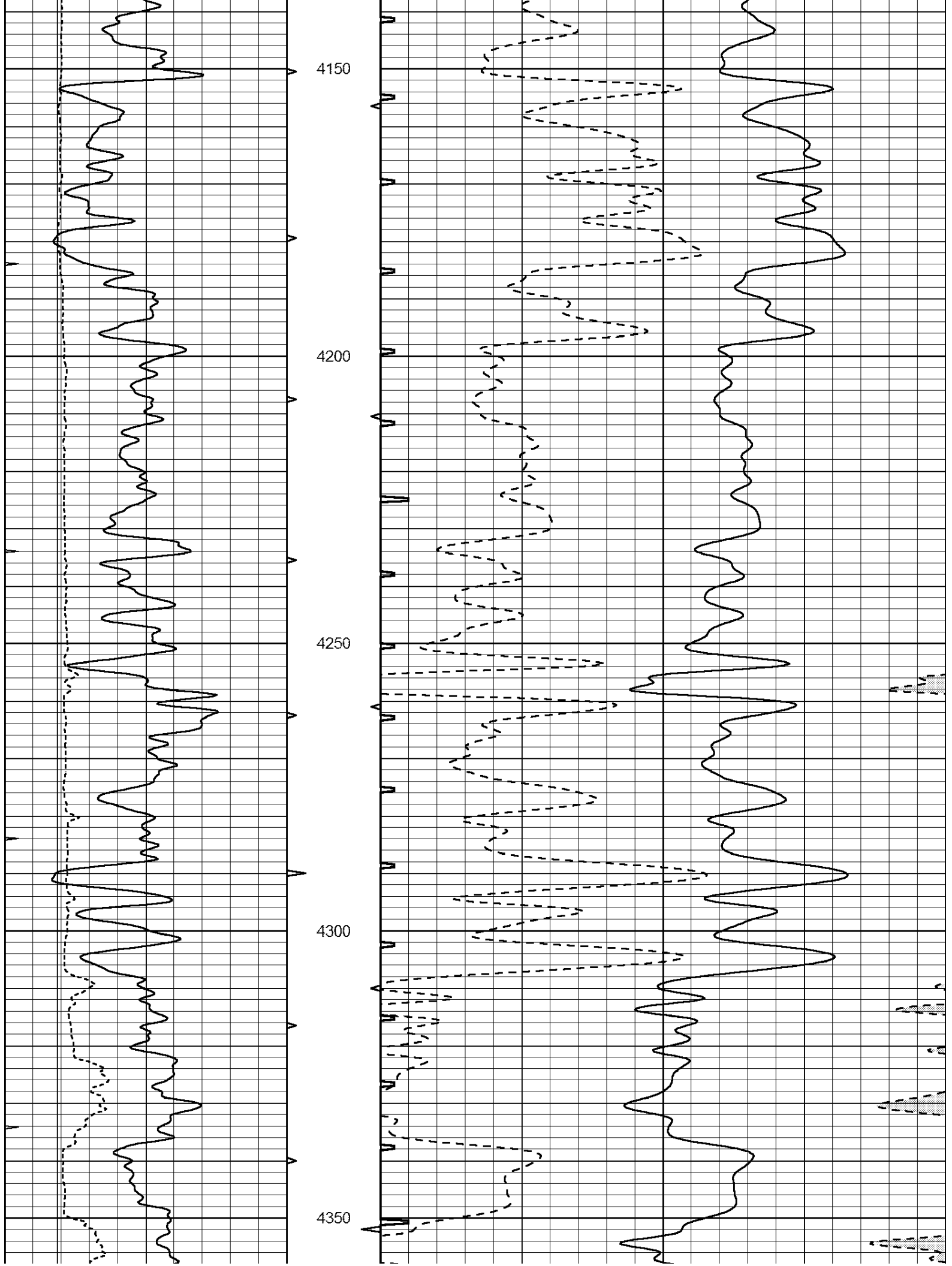


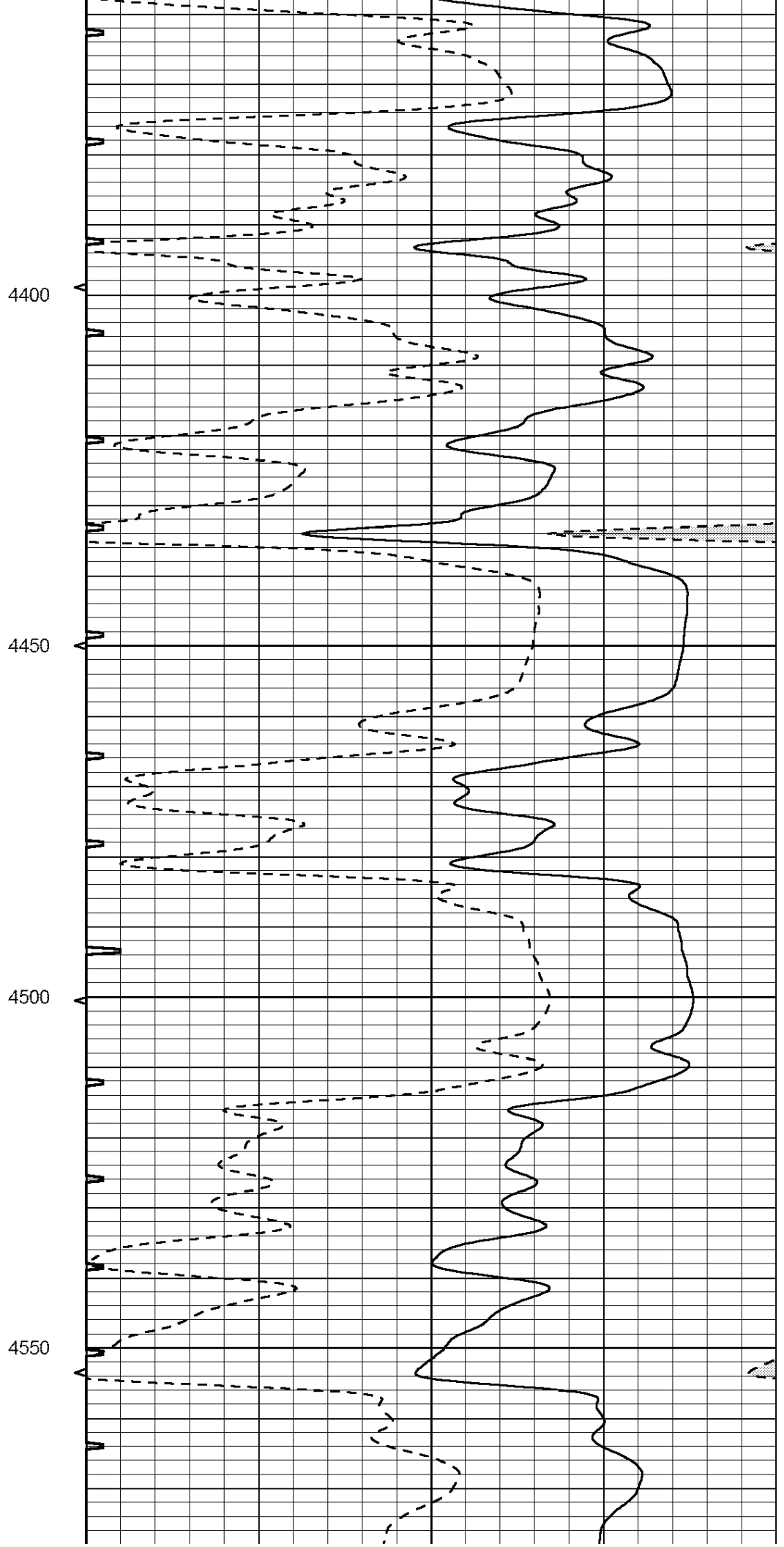
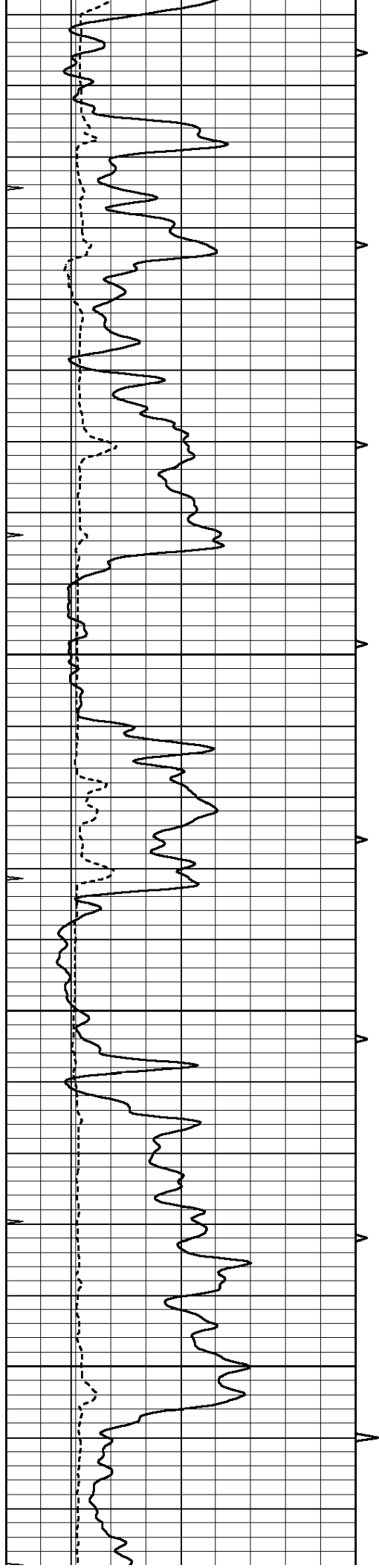


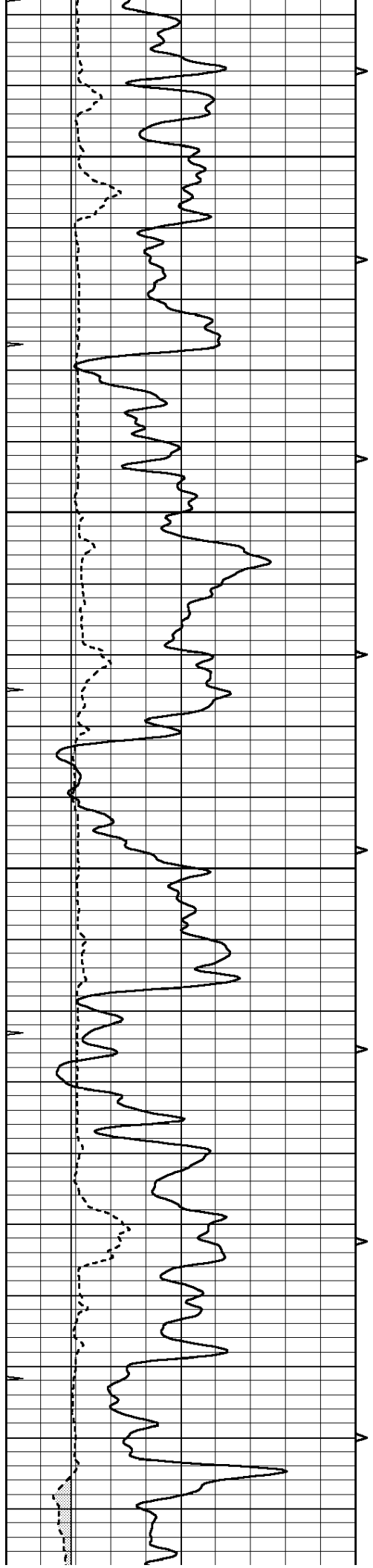










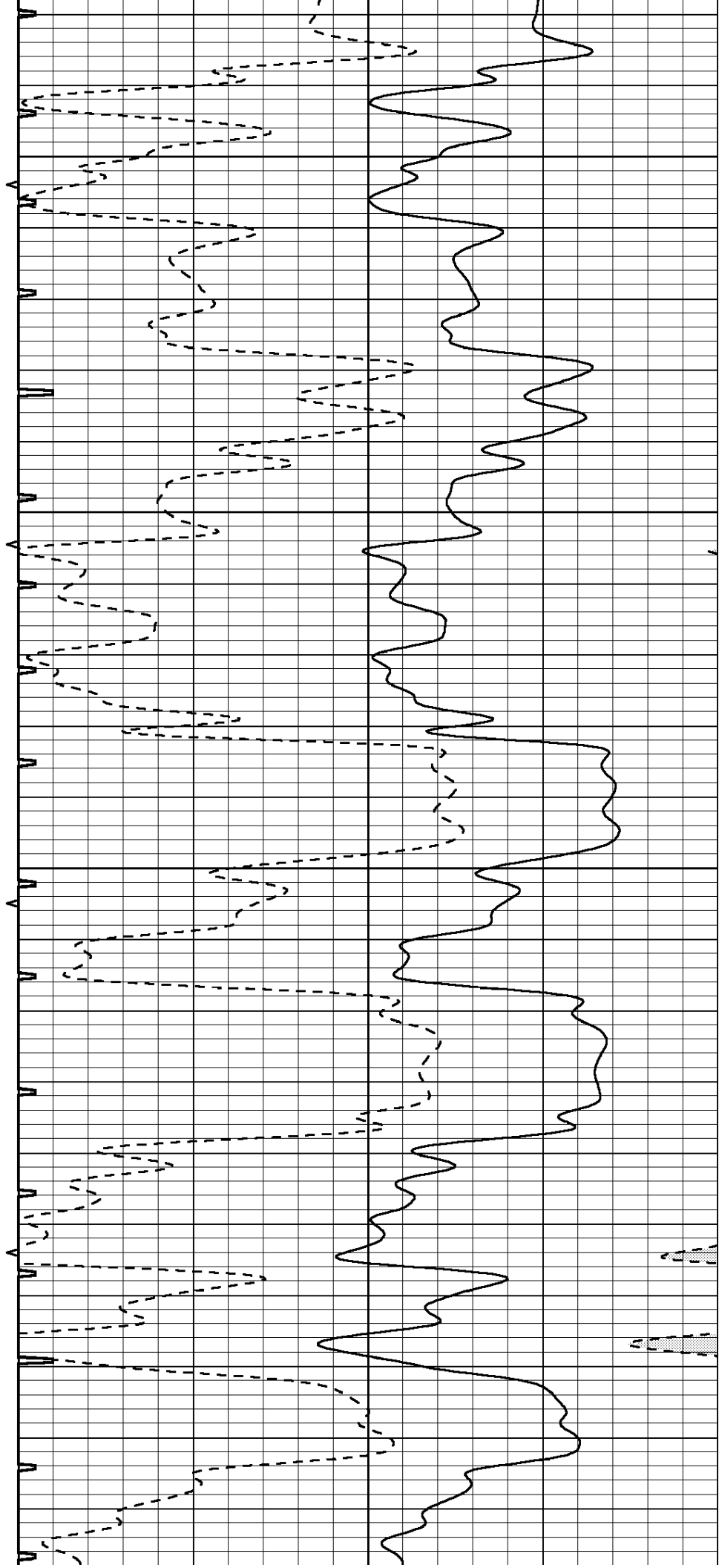


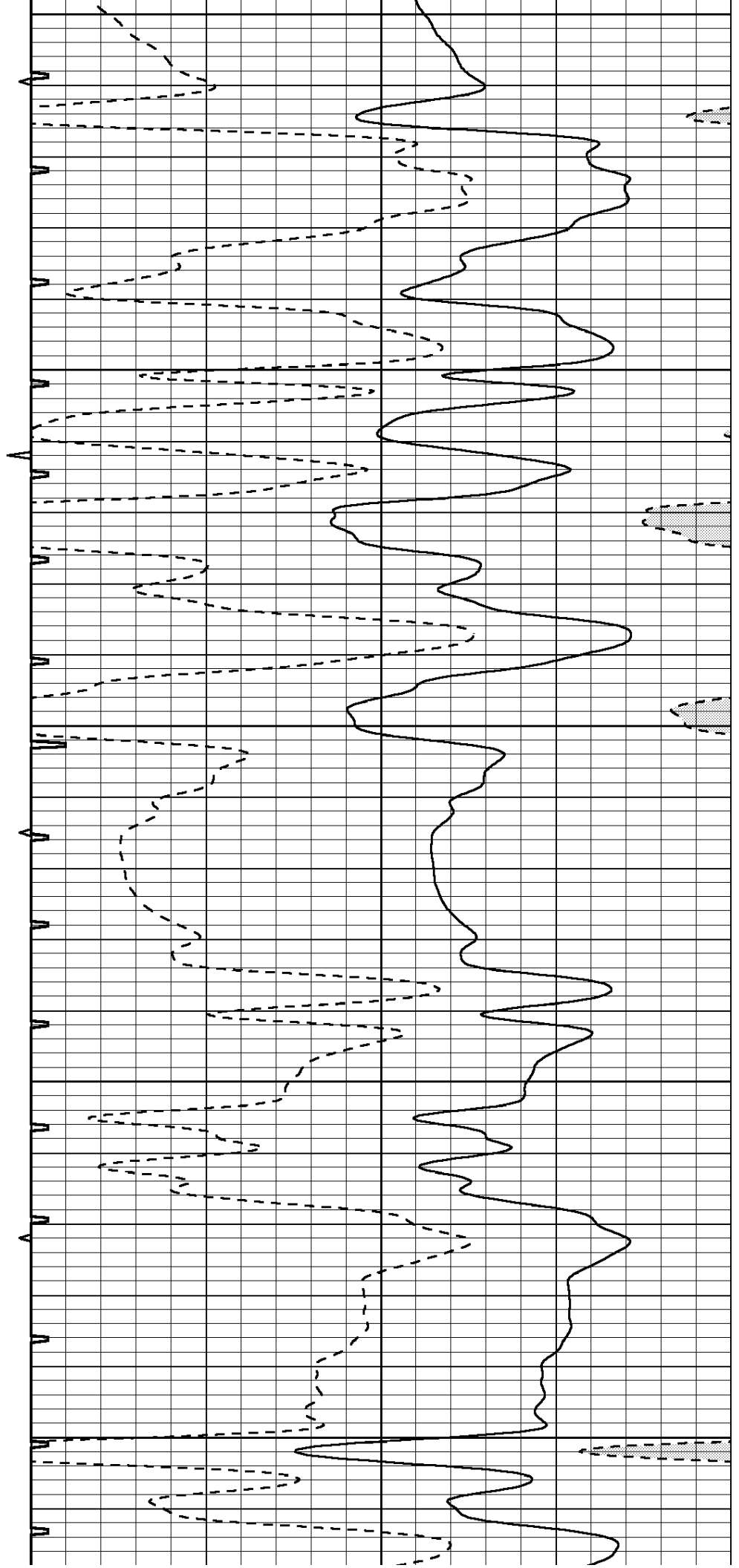
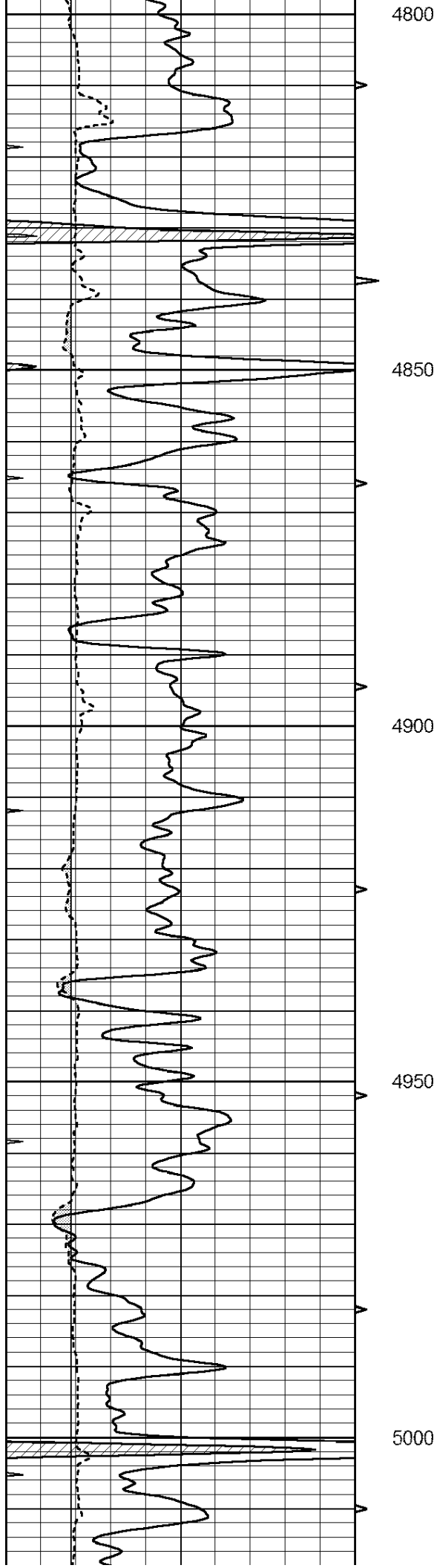
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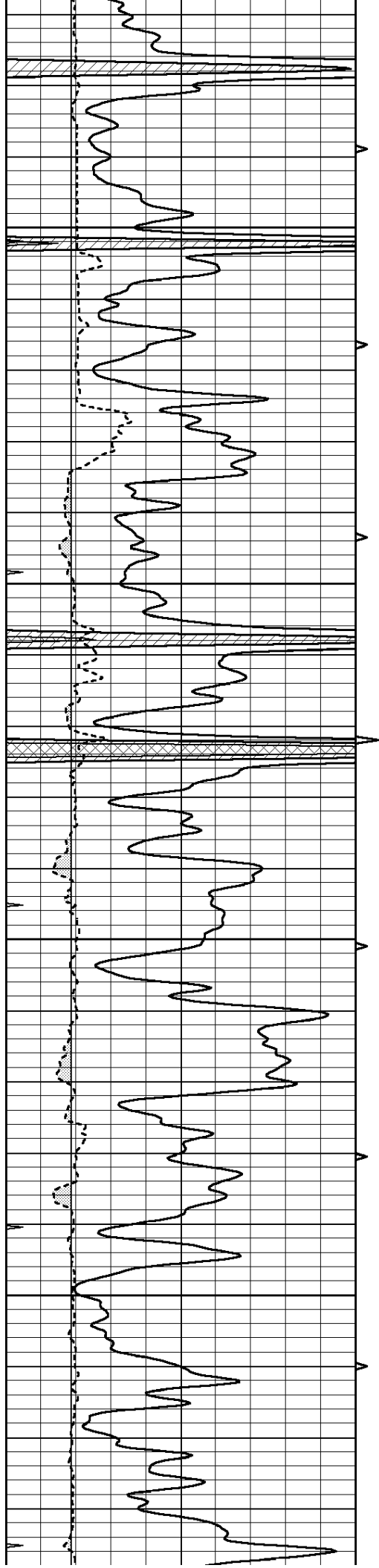
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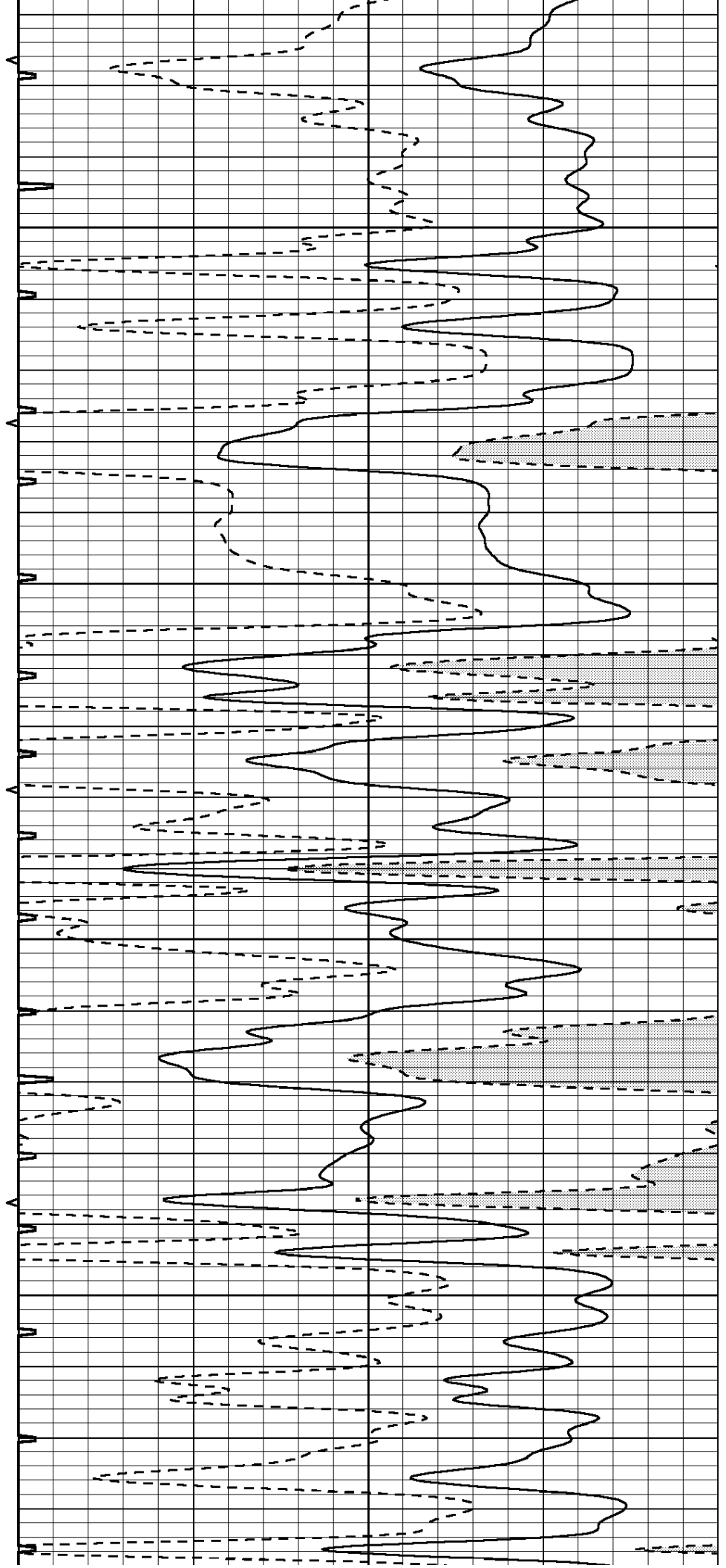


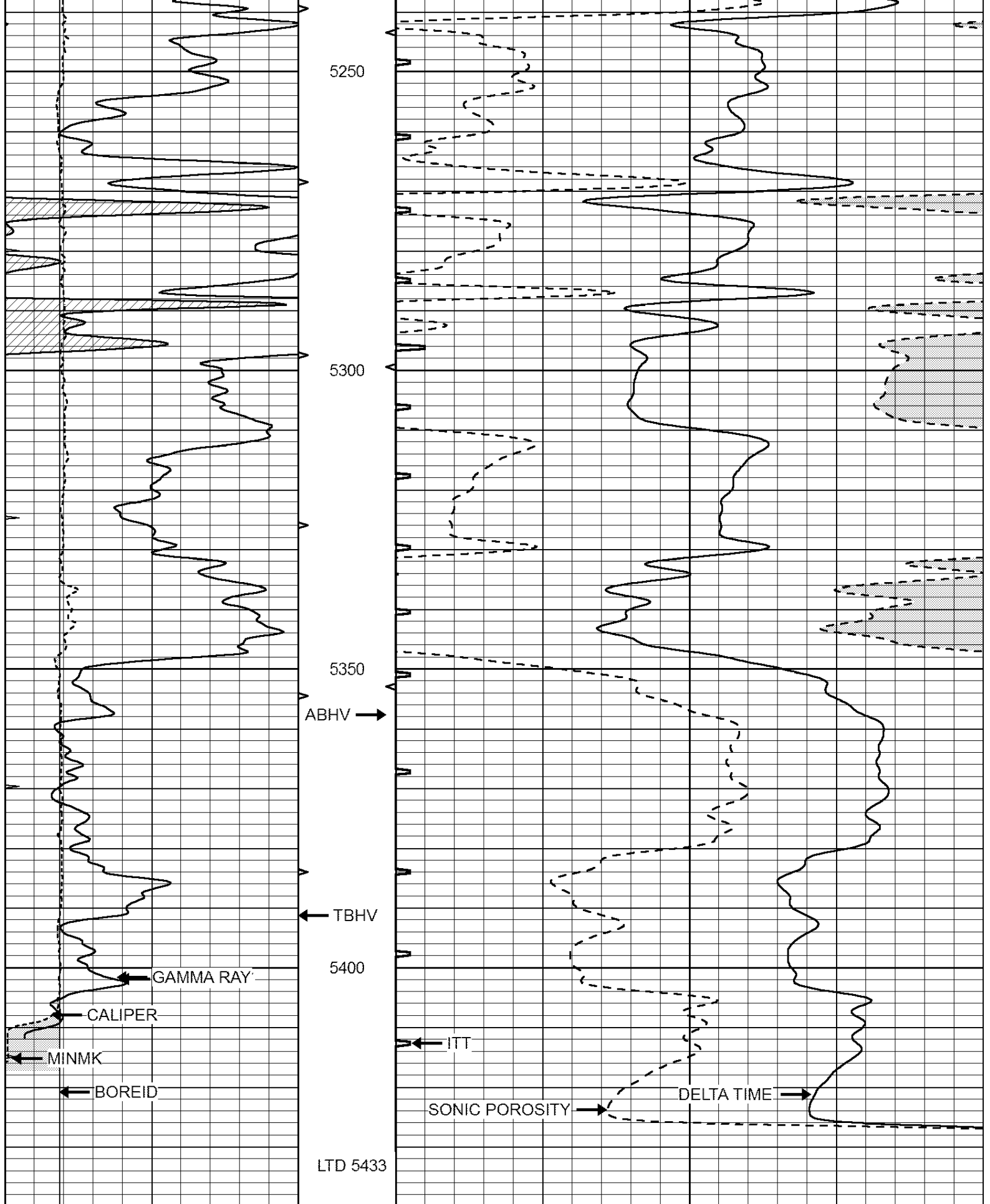
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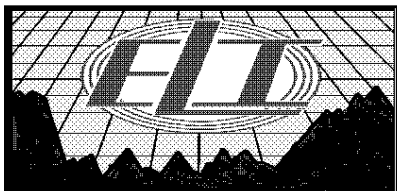
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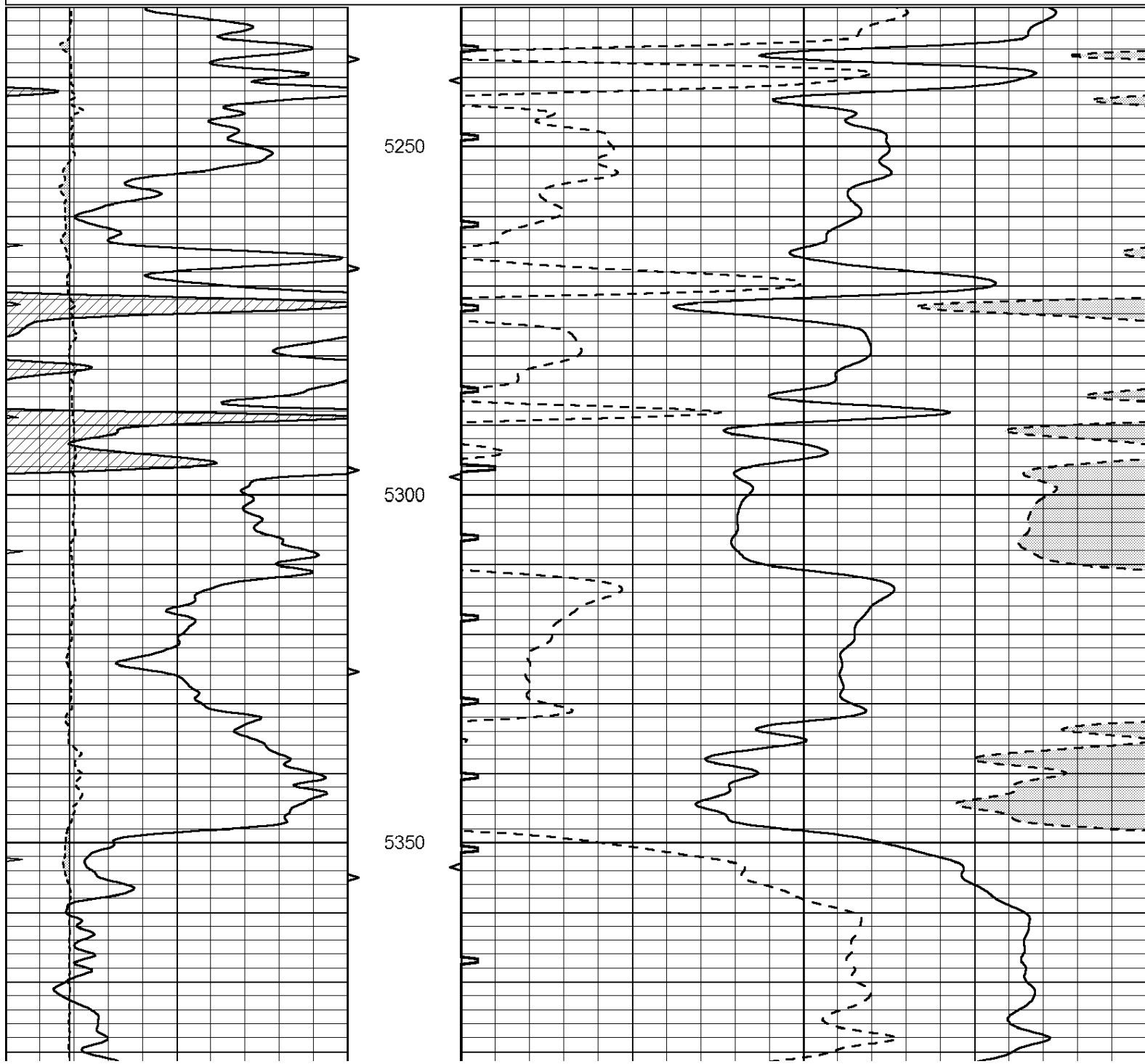
0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3) 10			

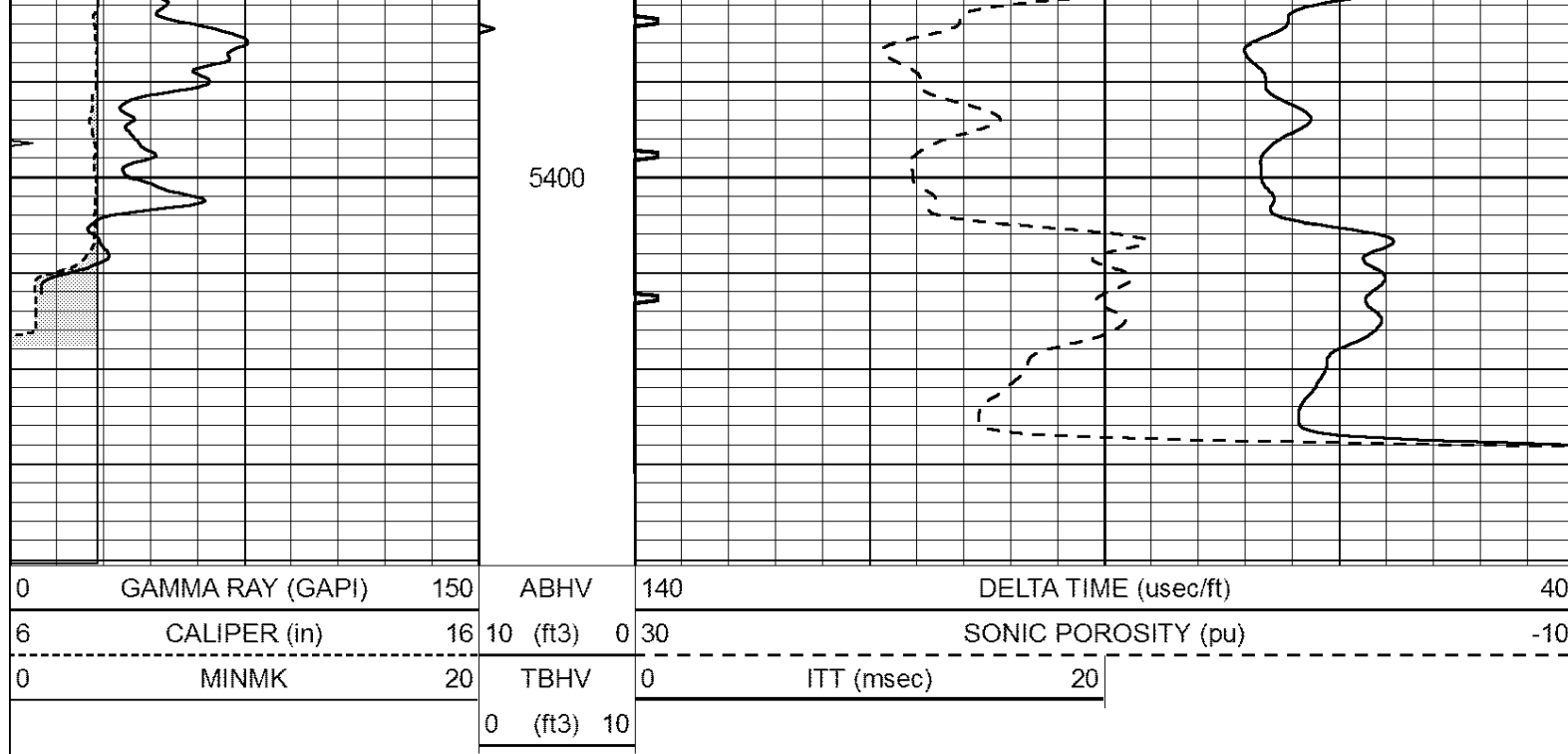


REPEAT SECTION

Database File: 3679pe.db
Dataset Pathname: pass4.1
Presentation Format: _slt
Dataset Creation: Sat May 11 13:52:17 2019
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3) 10			





Calibration Report

Database File: 3679pe.db
 Dataset Pathname: pass4.1
 Dataset Creation: Sat May 11 13:52:17 2019

MICRO Calibration Report

Serial Number:	MICRO3	
Tool Model:	PROBE	
Performed:	Sat Apr 06 08:28:00 2019	
Caliper Calibration:	Gain=5.761	Offset=-21.702
References	Low Cal	High Cal
Readings	7.000	14.000
	5.339	6.500
1.5" Calibration:	Gain=79.606	Offset=-0.120
References	Low Cal	High Cal
Readings	0.000	20.000
	0.001	0.230
2" Calibration:	Gain=118.028	Offset=-1.176
References	Low Cal	High Cal
Readings	0.000	20.000
	0.018	0.188

Gamma Ray Calibration Report

Serial Number:	GR5	
Tool Model:	OPEN	
Performed:	Wed Feb 27 04:44:36 2019	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5600	GAPI/cps