

**NABORS****COMPLETION
& PRODUCTION
SERVICES CO.****COMPENSATED
DENSITY / NEUTRON
PE LOG**

Company	WOOLSEY OPERATING CO. LLC.		
Well	PLATT GU #6		
Field	HARDTNER		
County	BARBER		
State	KANSAS		
Company	WOOLSEY OPERATING COMPANY, LLC.		
Well	PLATT GU #6		
Field	HARDTNER		
County	BARBER		
State	KANSAS		
Location:	API # : 15-007-24070-0000 2044' FSL & 2220' FWL		Other Services DIL
Permanent Datum	GROUND LEVEL	Elevation	1392
Log Measured From	KELLY BUSHING 13' A.G.L.		
Drilling Measured From	KELLY BUSHING		
	SEC 10 TWP 35S RGE 12W		
Date	9/27/13		
Run Number	ONE		
Depth Driller	5505		
Depth Logger	5498		
Bottom Logged Interval	5474		
Top Log Interval	1900		
Casing Driller	8 5/8" @ 956	13 3/8" @ 226	
Casing Logger	NA		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4,000 PPM	
Density / Viscosity	9.2/56		
pH / Fluid Loss	10.5/9.6		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.70 @ 98F		
Rmf @ Meas. Temp	.52 @ 98F		
Rmc @ Meas. Temp	.84 @ 98F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.53 @ 129F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	129F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	BILL KLAVER		

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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 "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS
HARDTNER, KS - 1 1/2 MILES EAST - SOUTH INTO

Database File:

011677pe.db

Dataset Pathname:

pass3.1

Presentation Format:

_ldt_neu

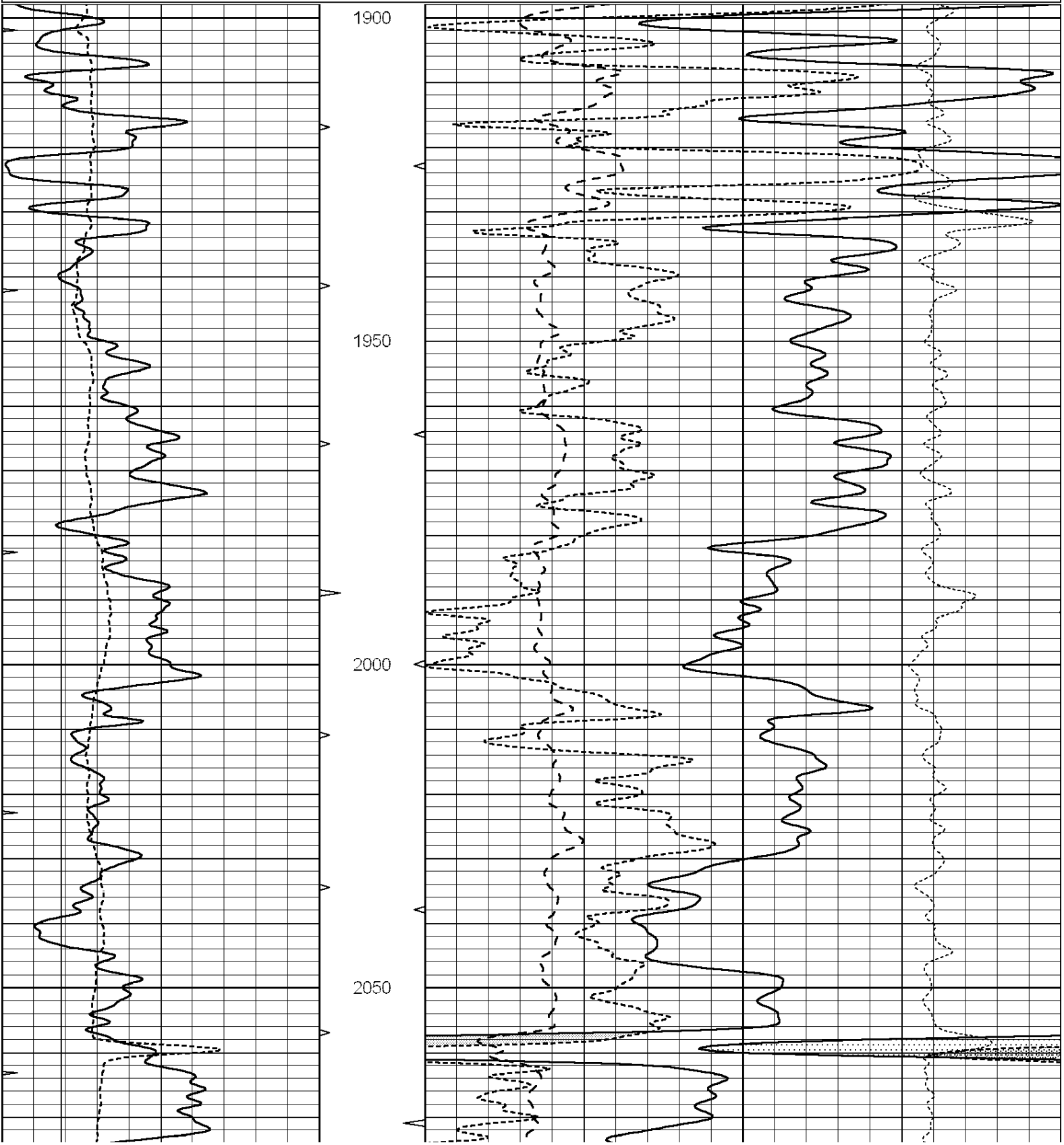
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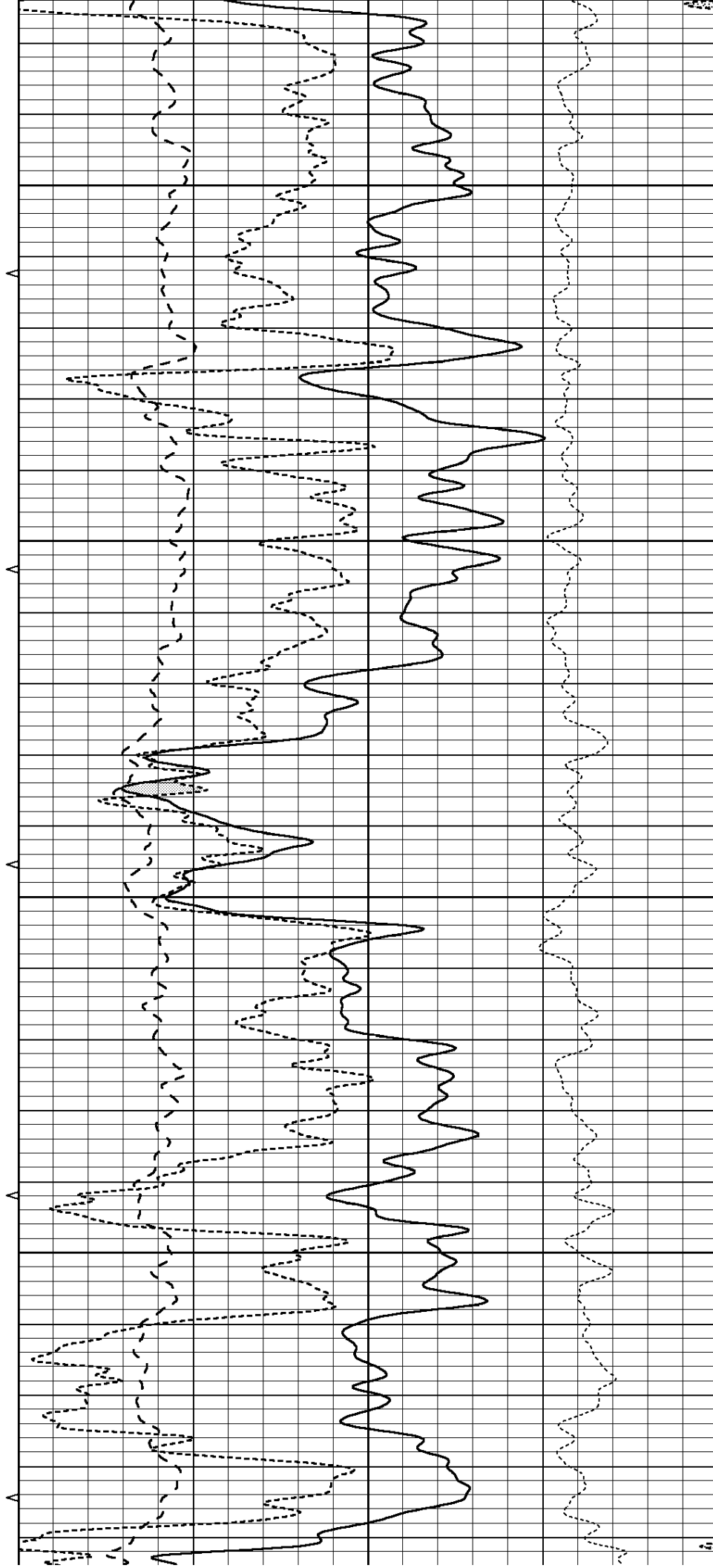
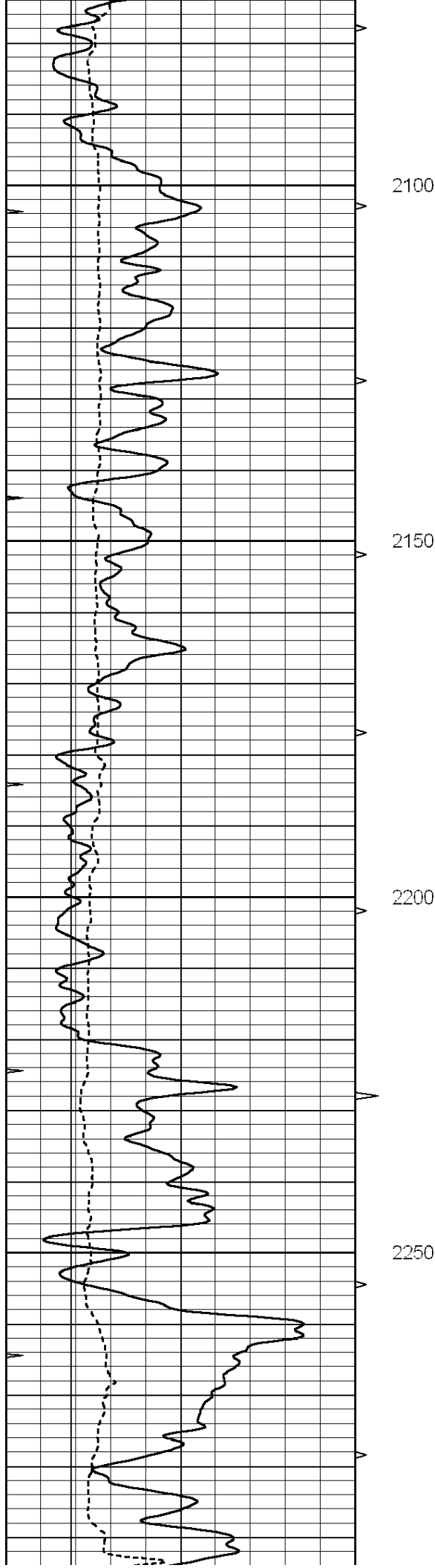
Fri Sep 27 21:27:11 2013

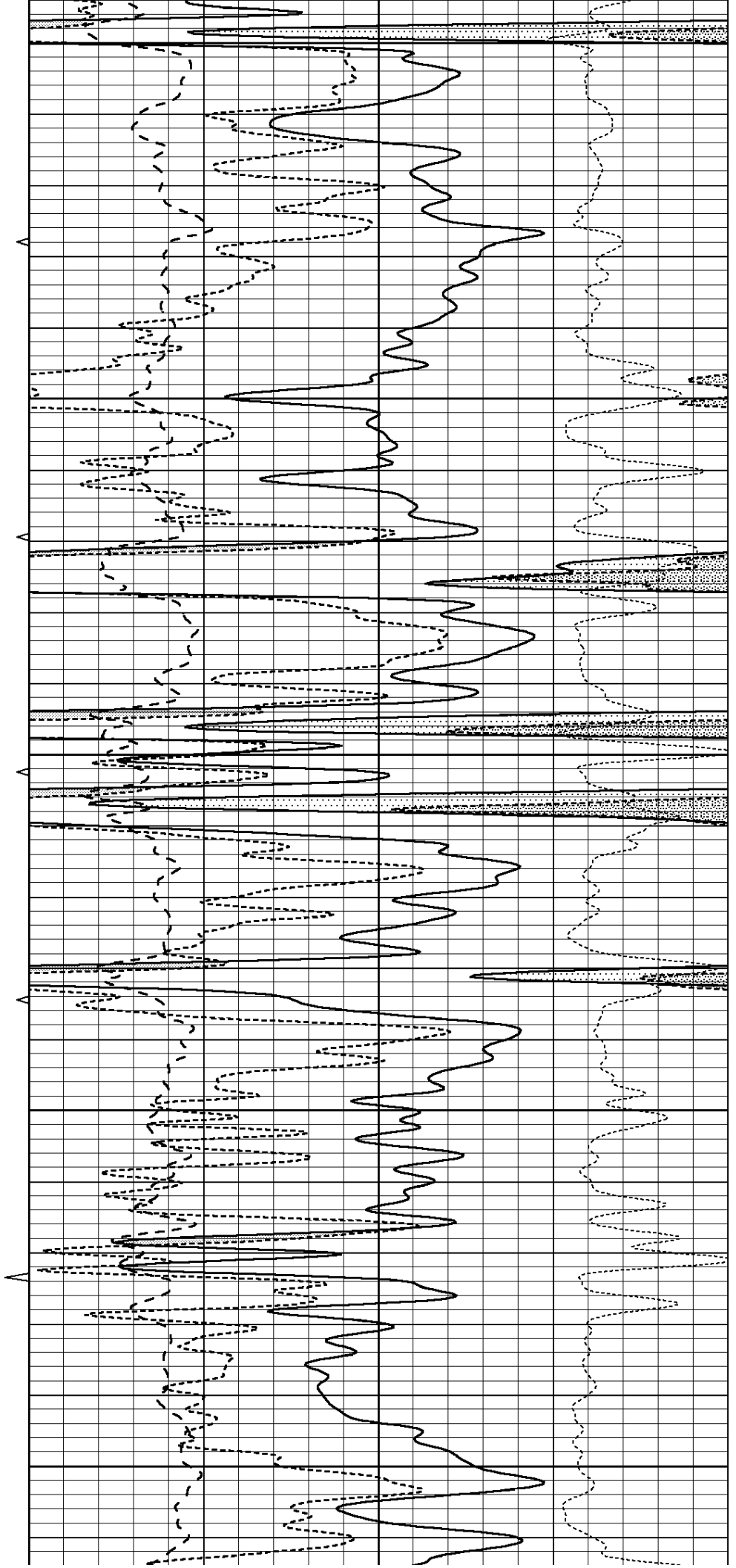
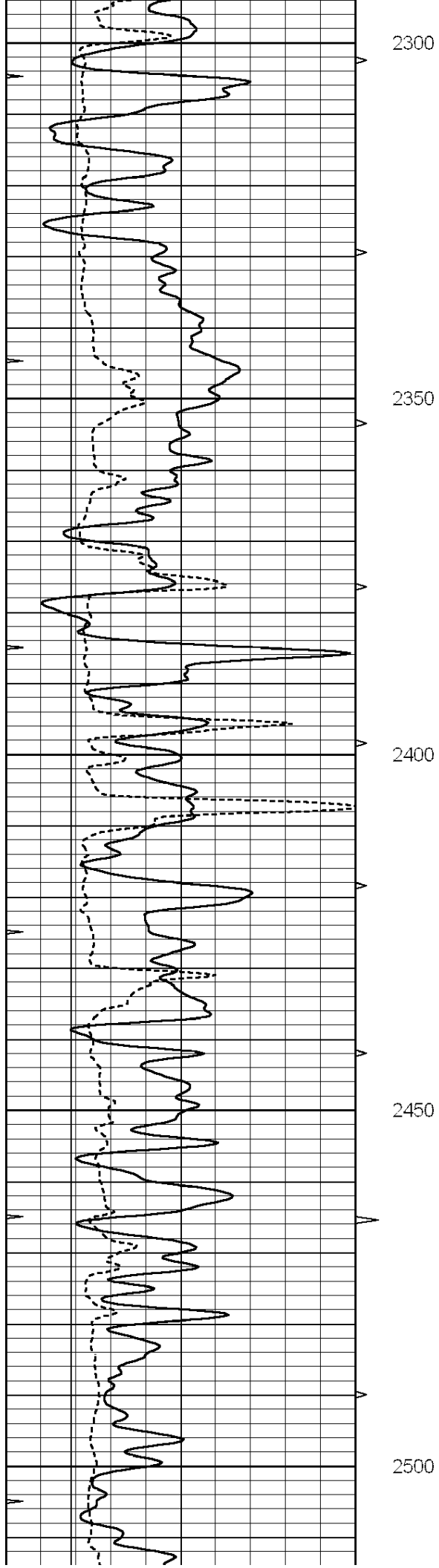
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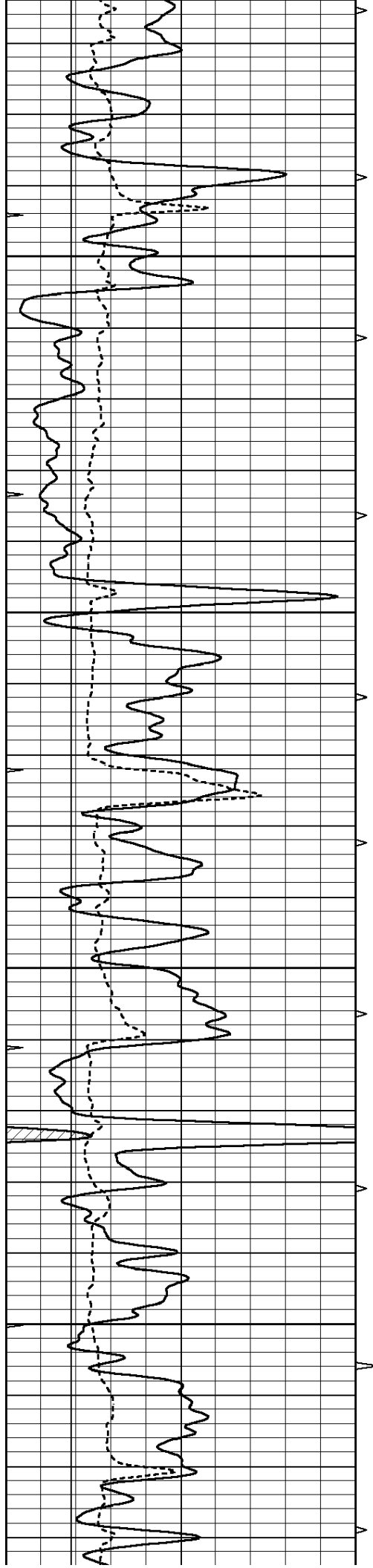
Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)				-10	
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)				-10
0	MINMK	20	TBHV	0	PE	10	-0.25	CORRECTION (g/cc)	0.25	
			0 (ft3)	10						







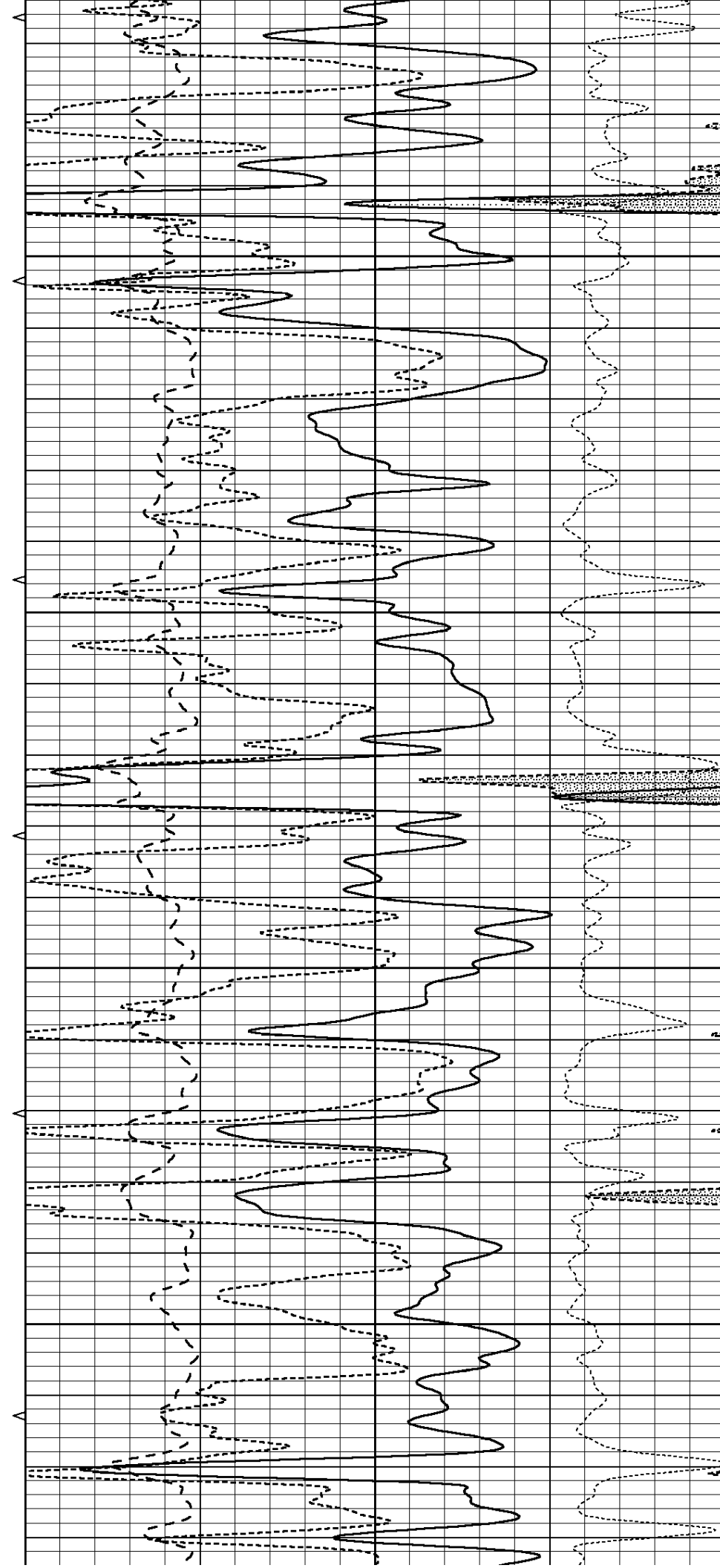


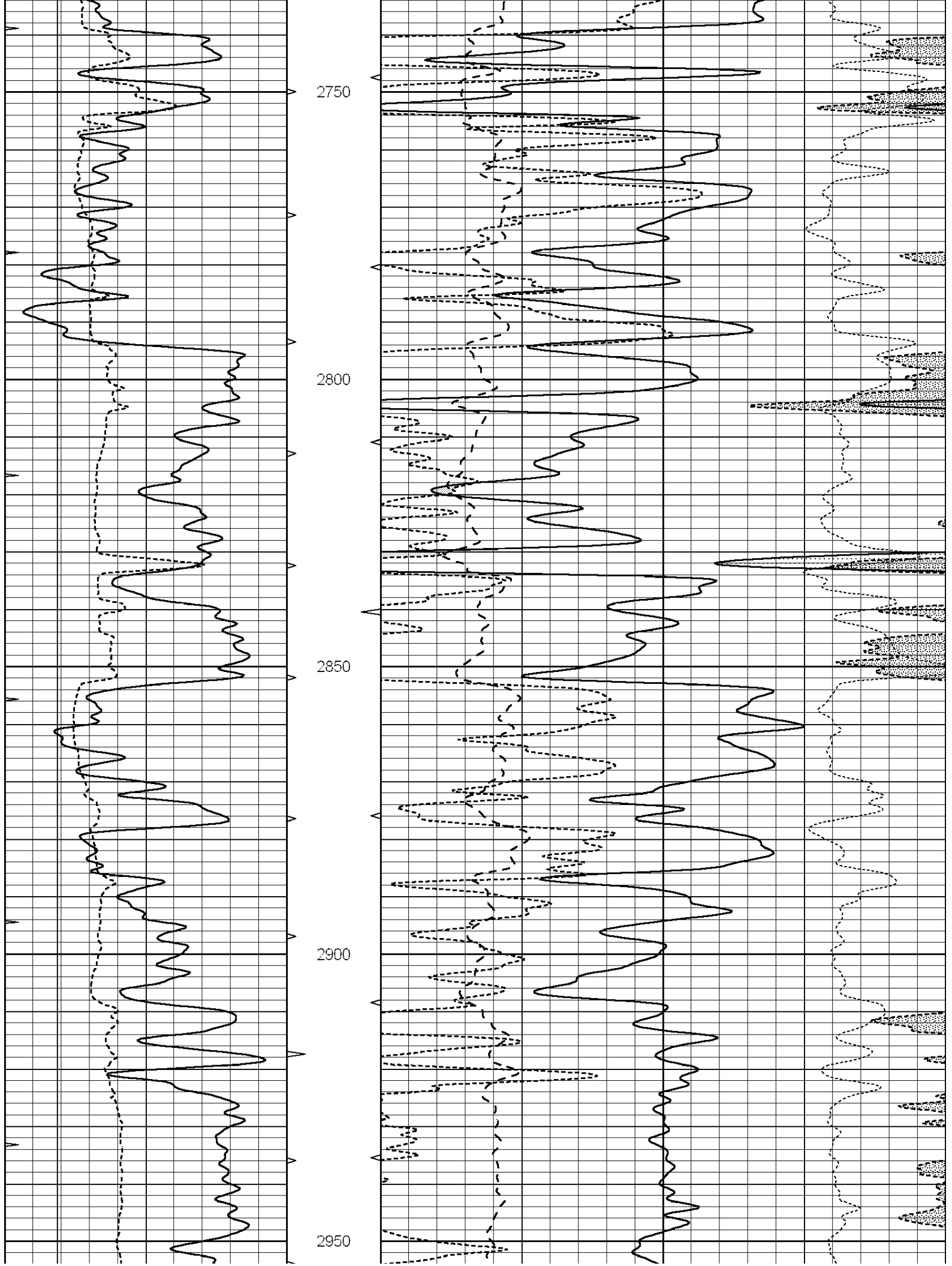
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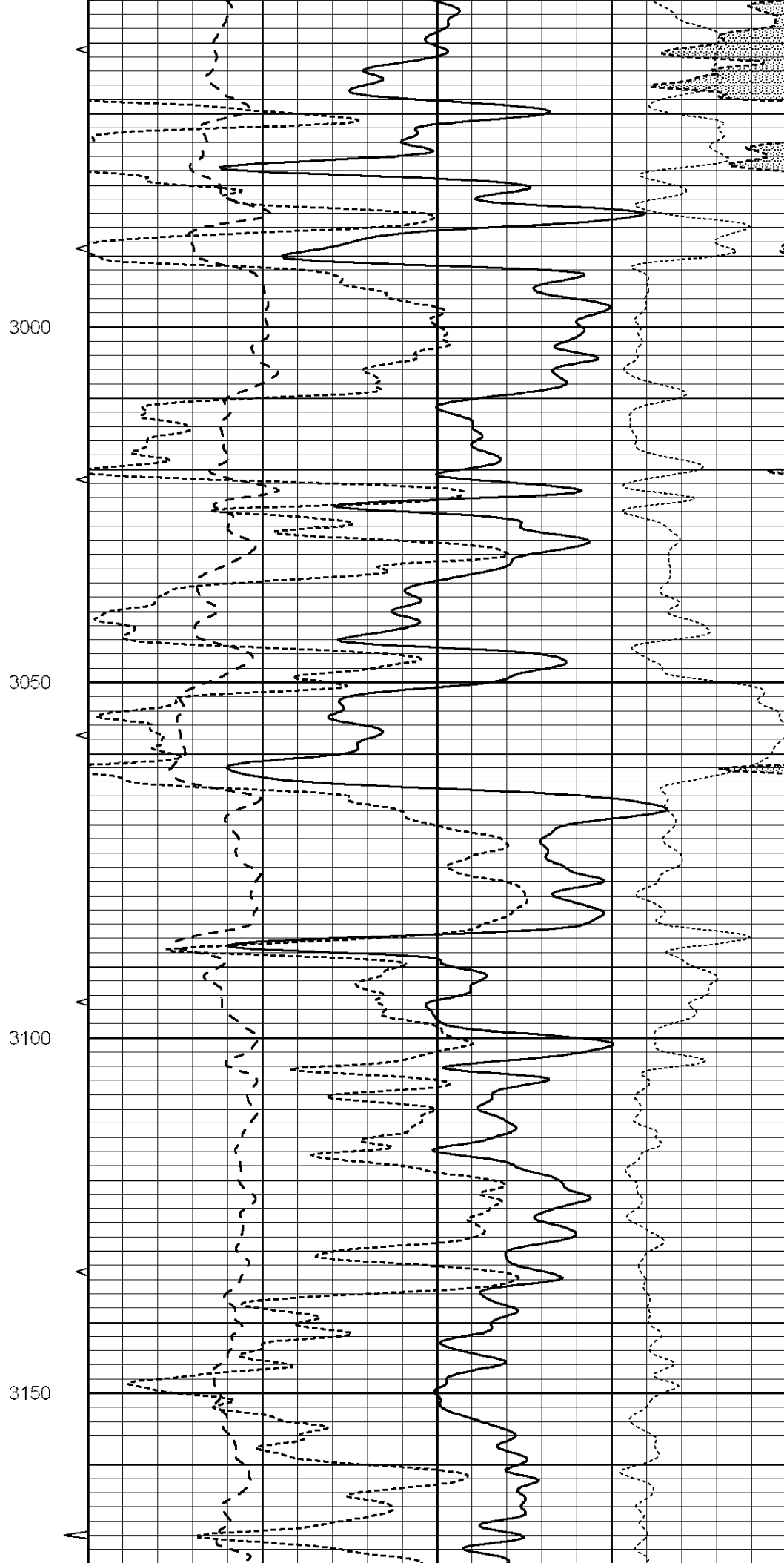
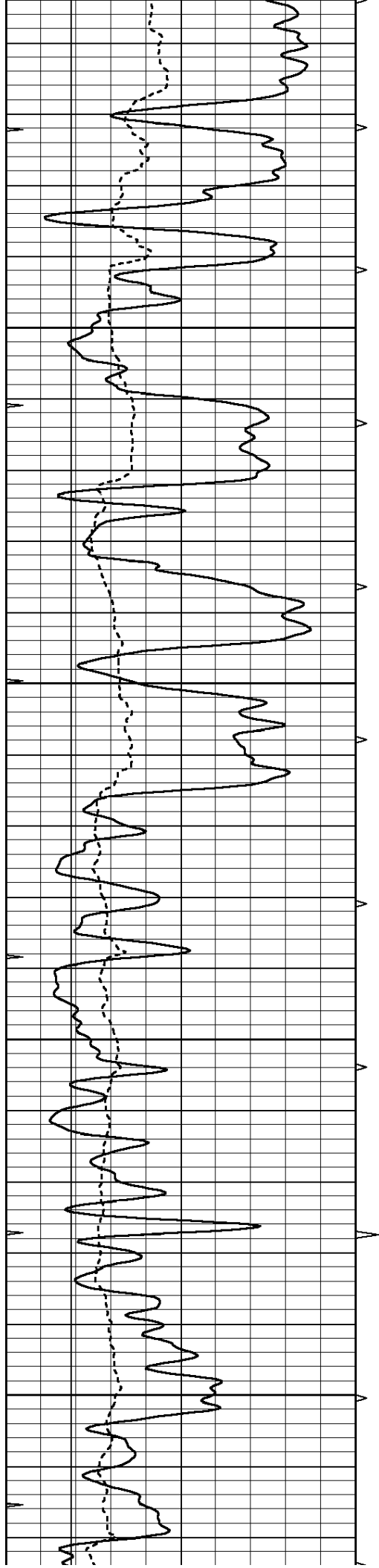
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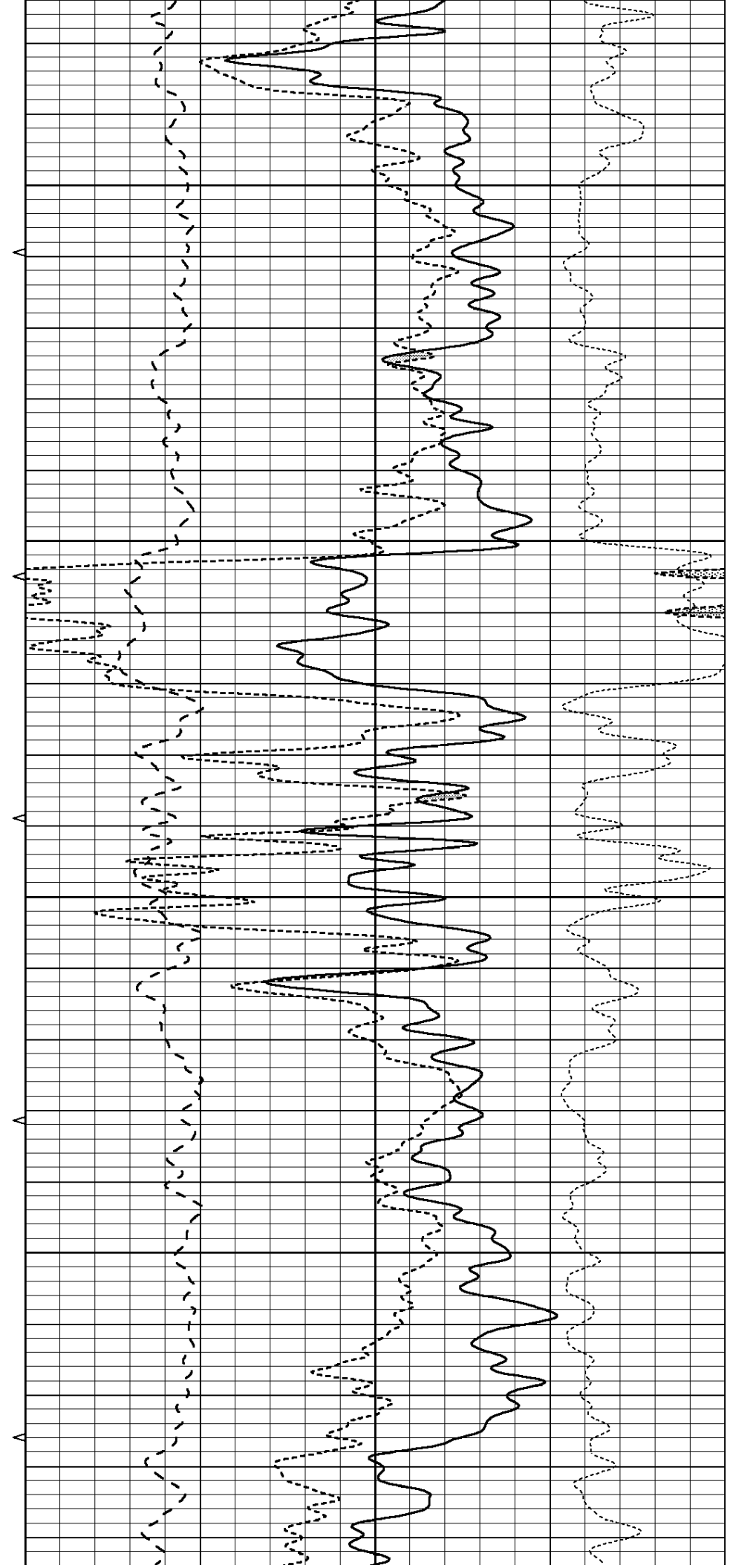
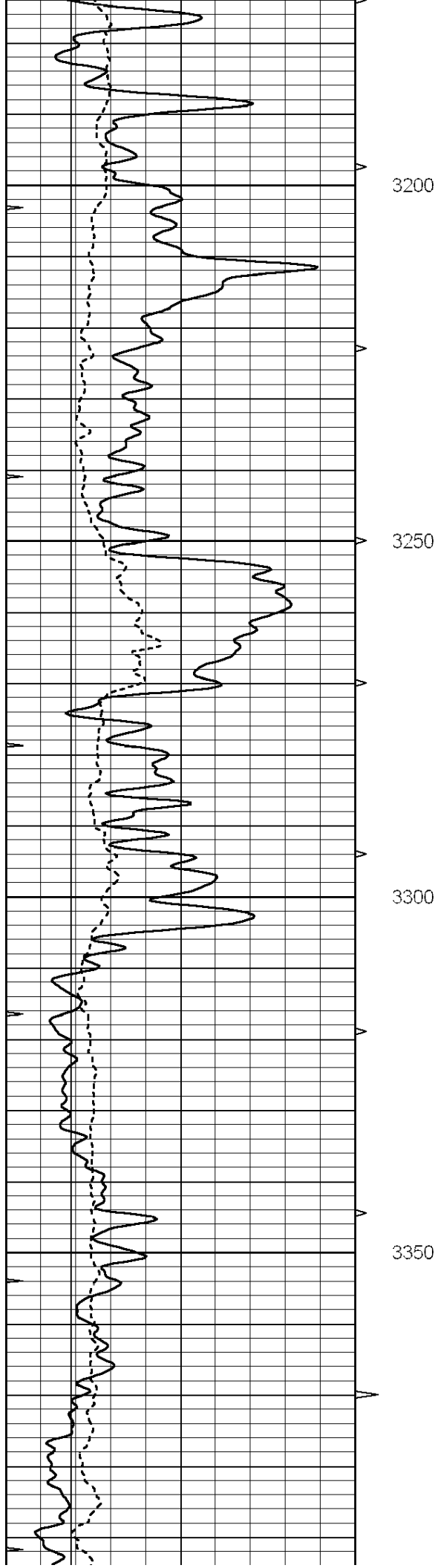
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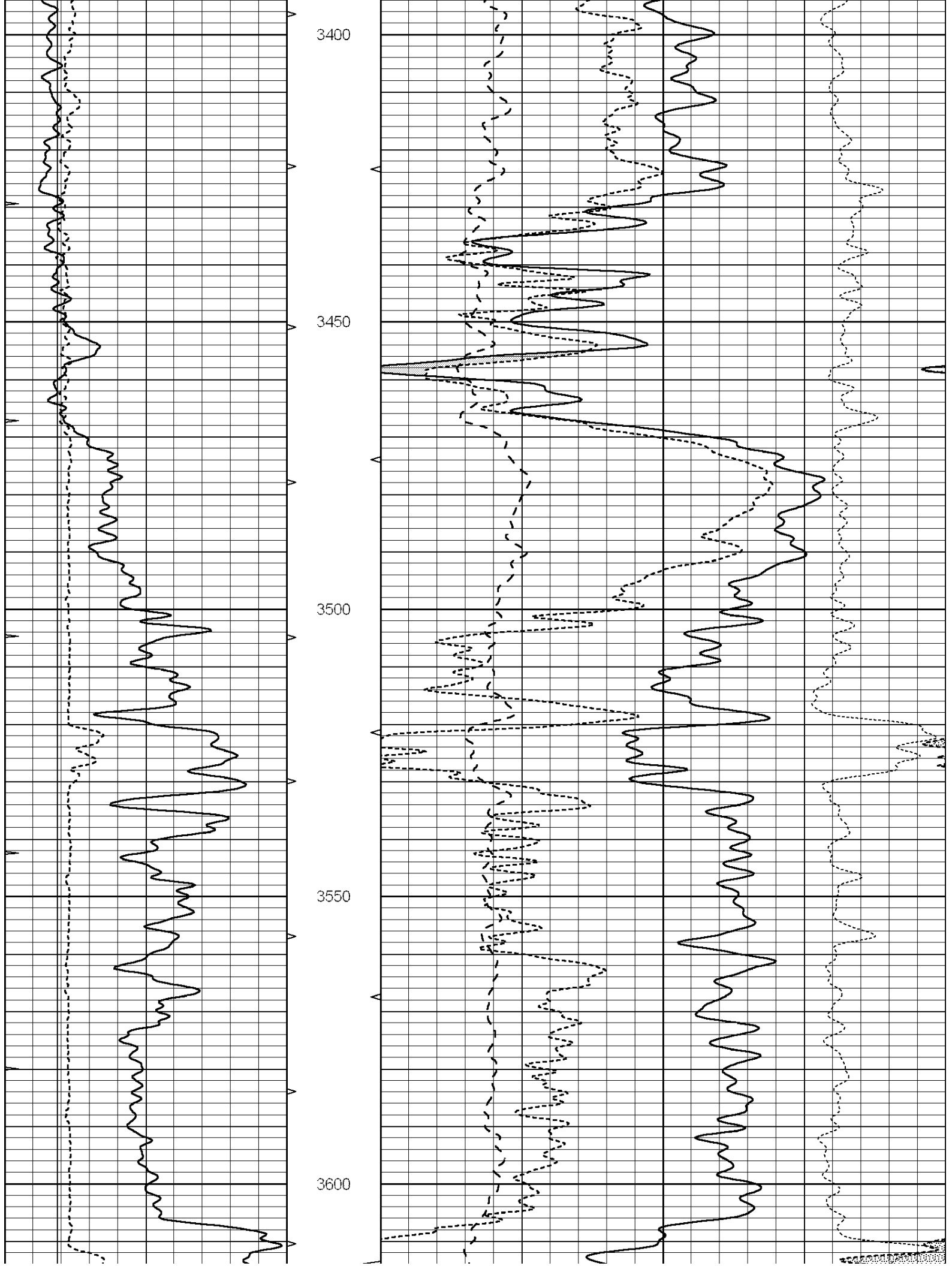
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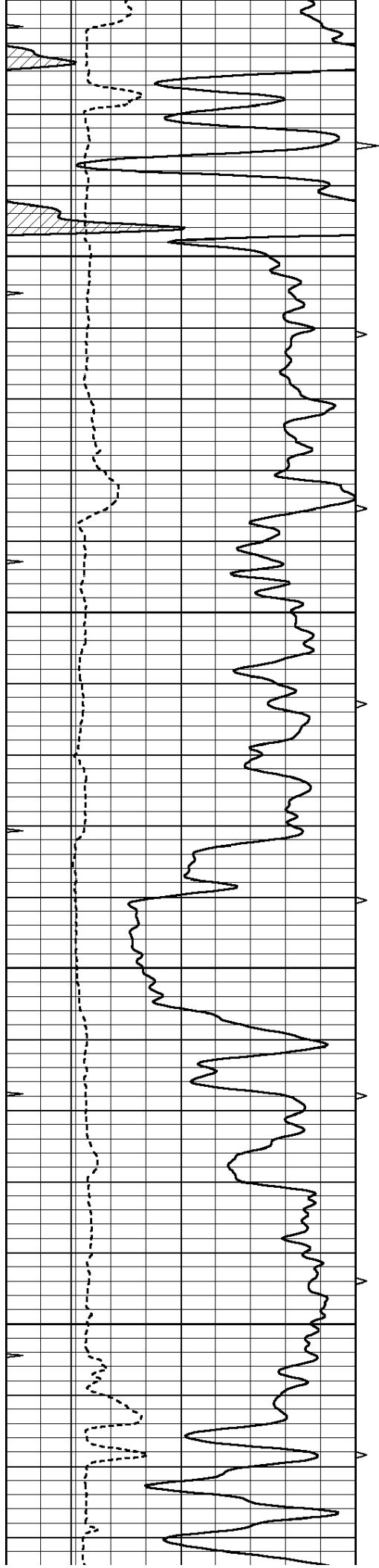










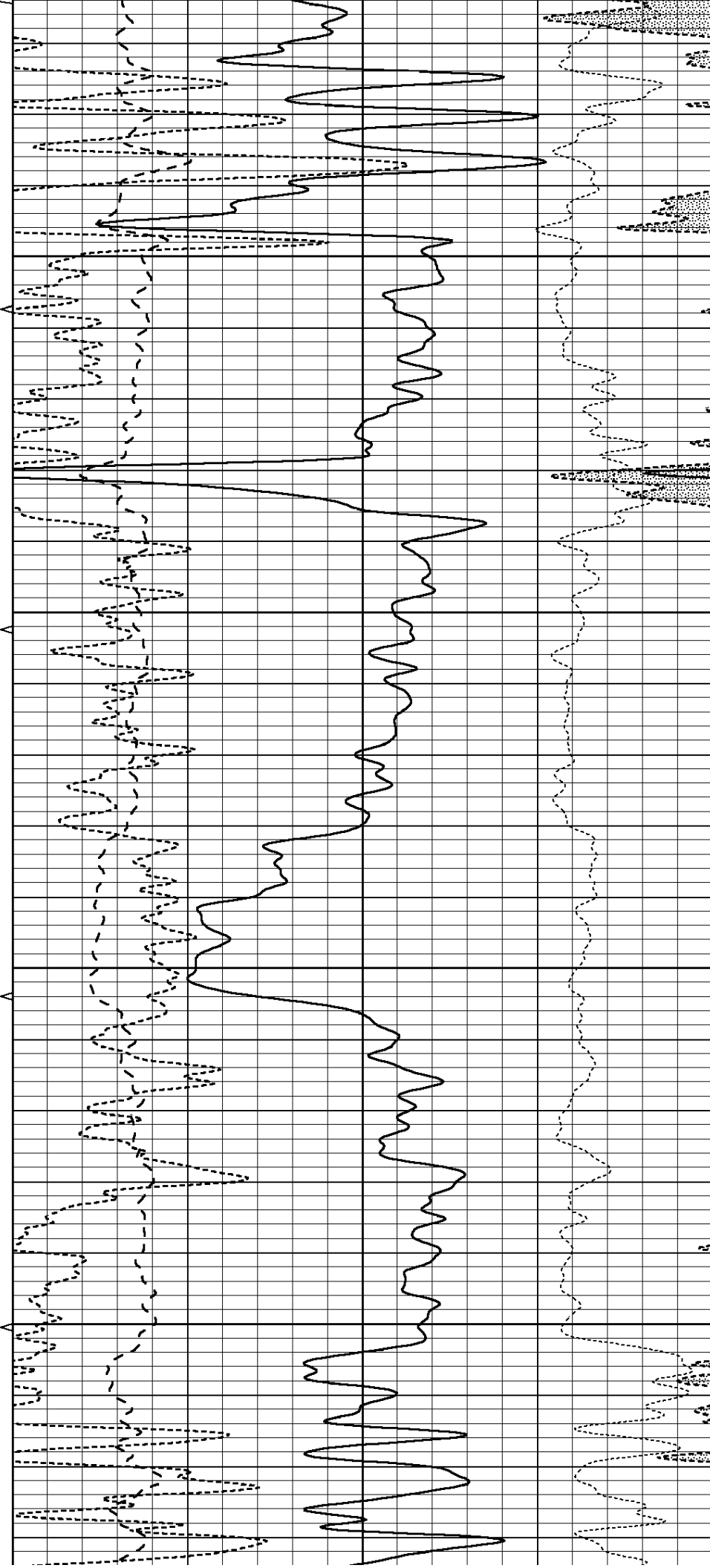


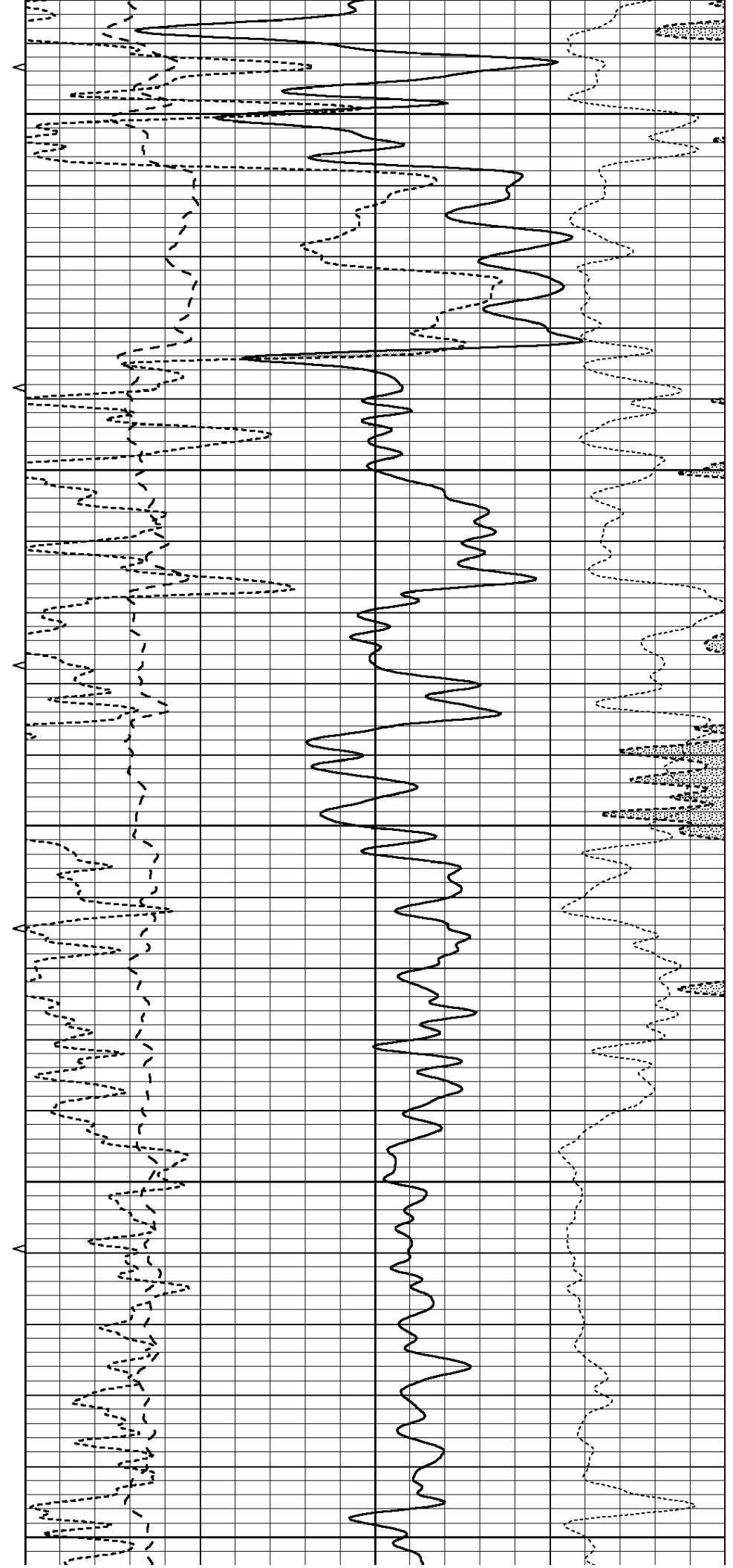
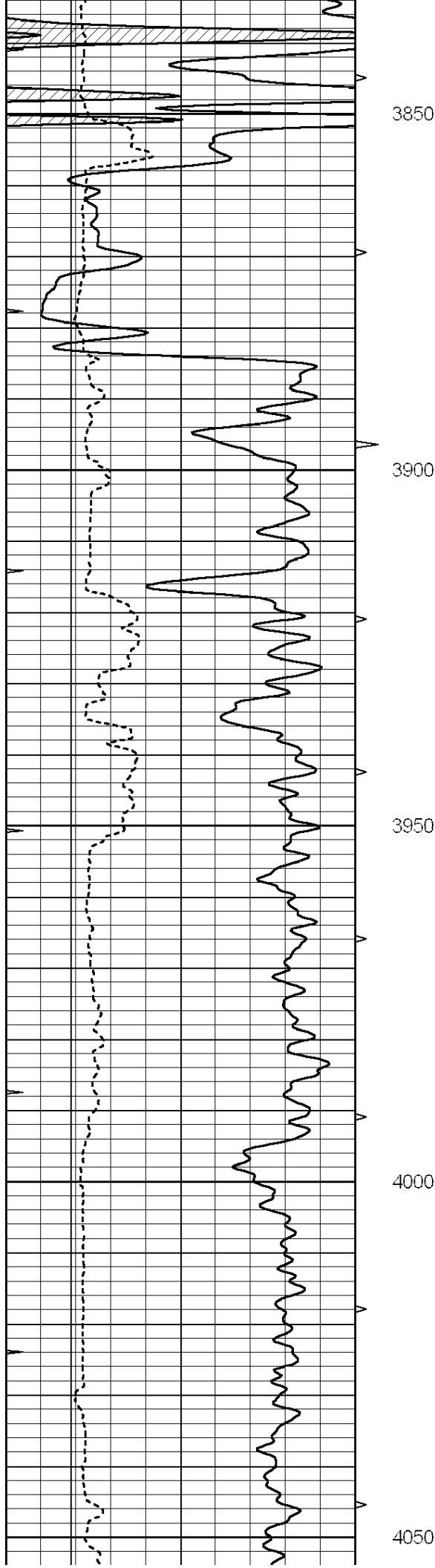
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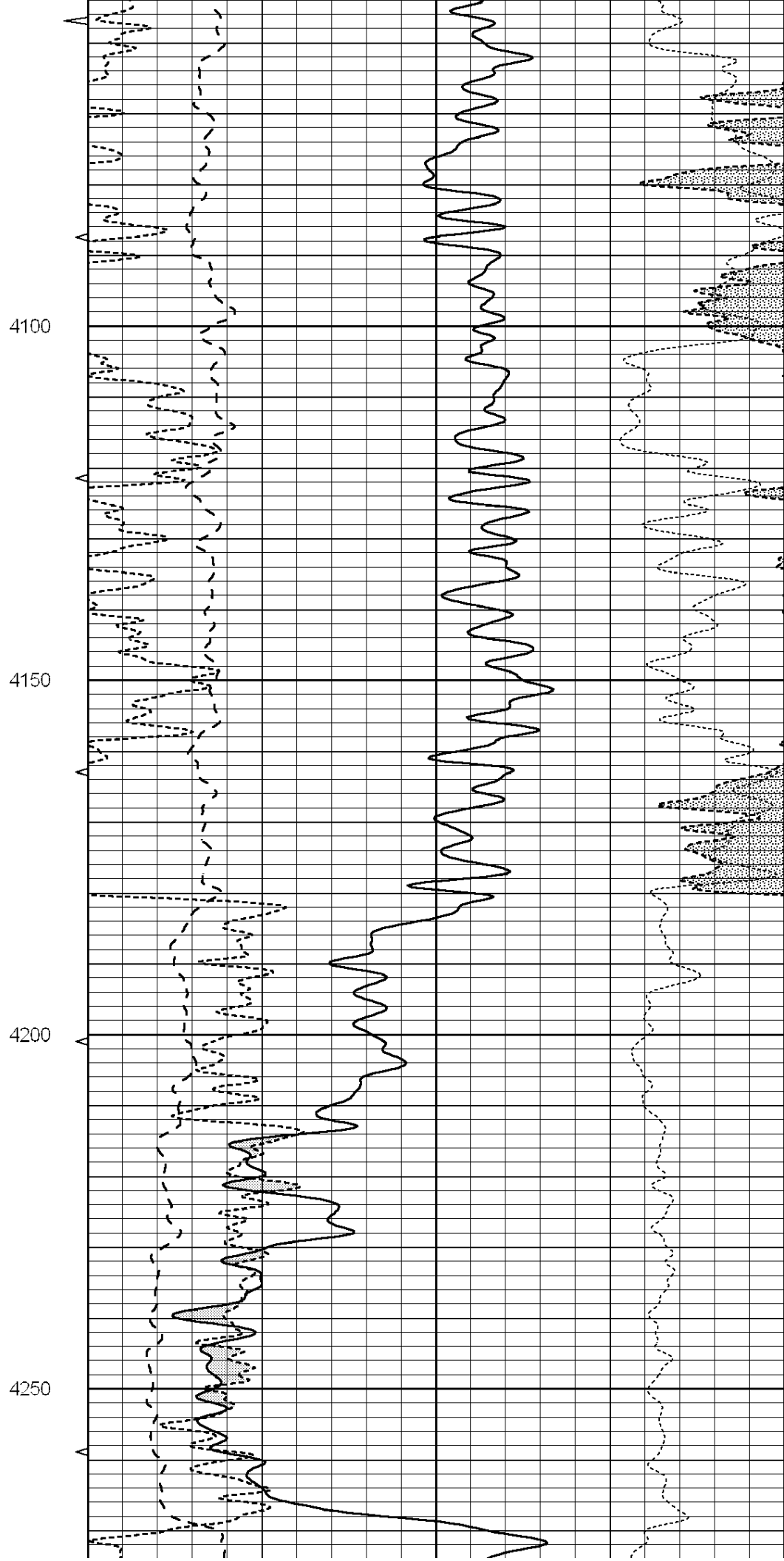
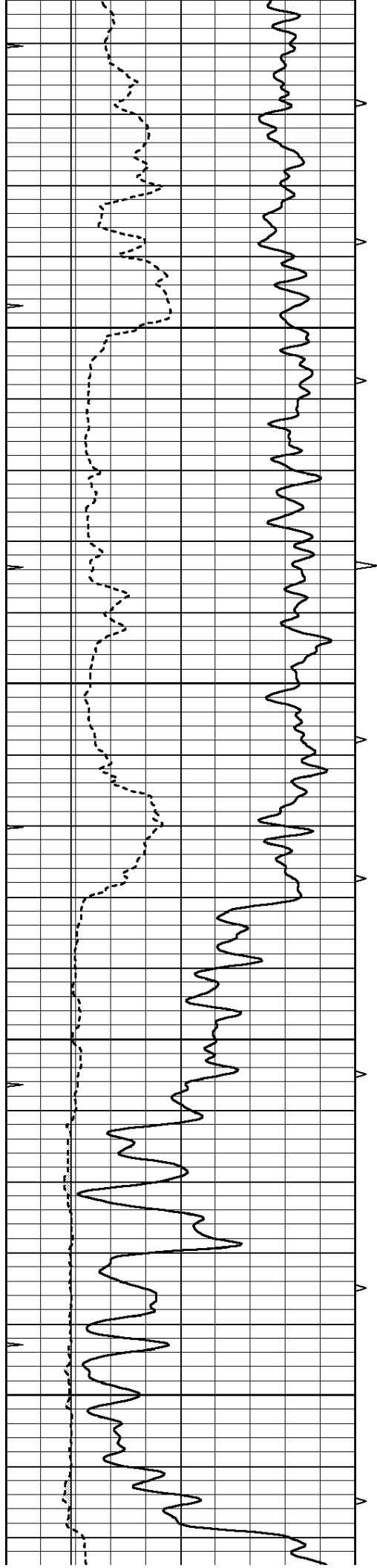
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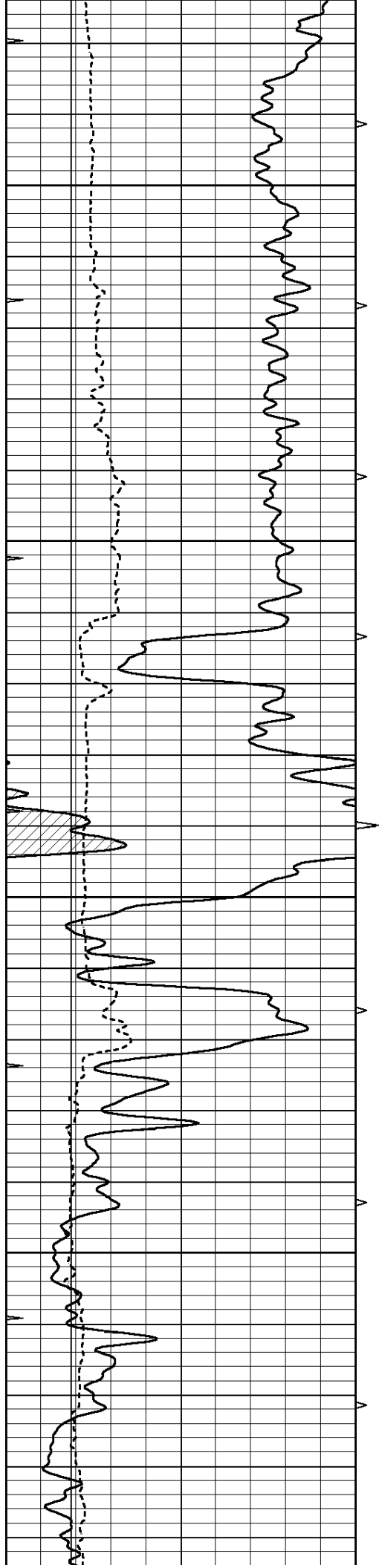
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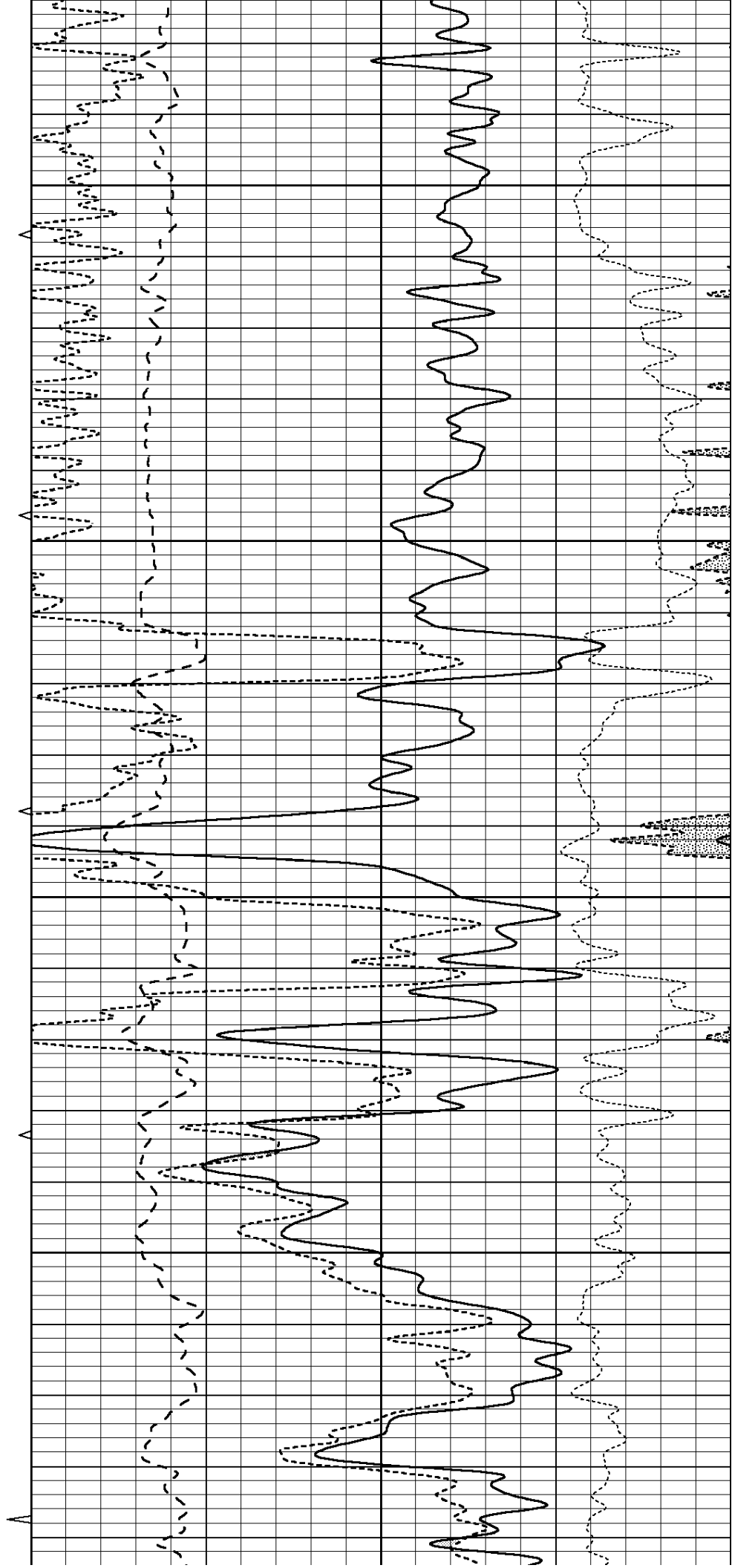


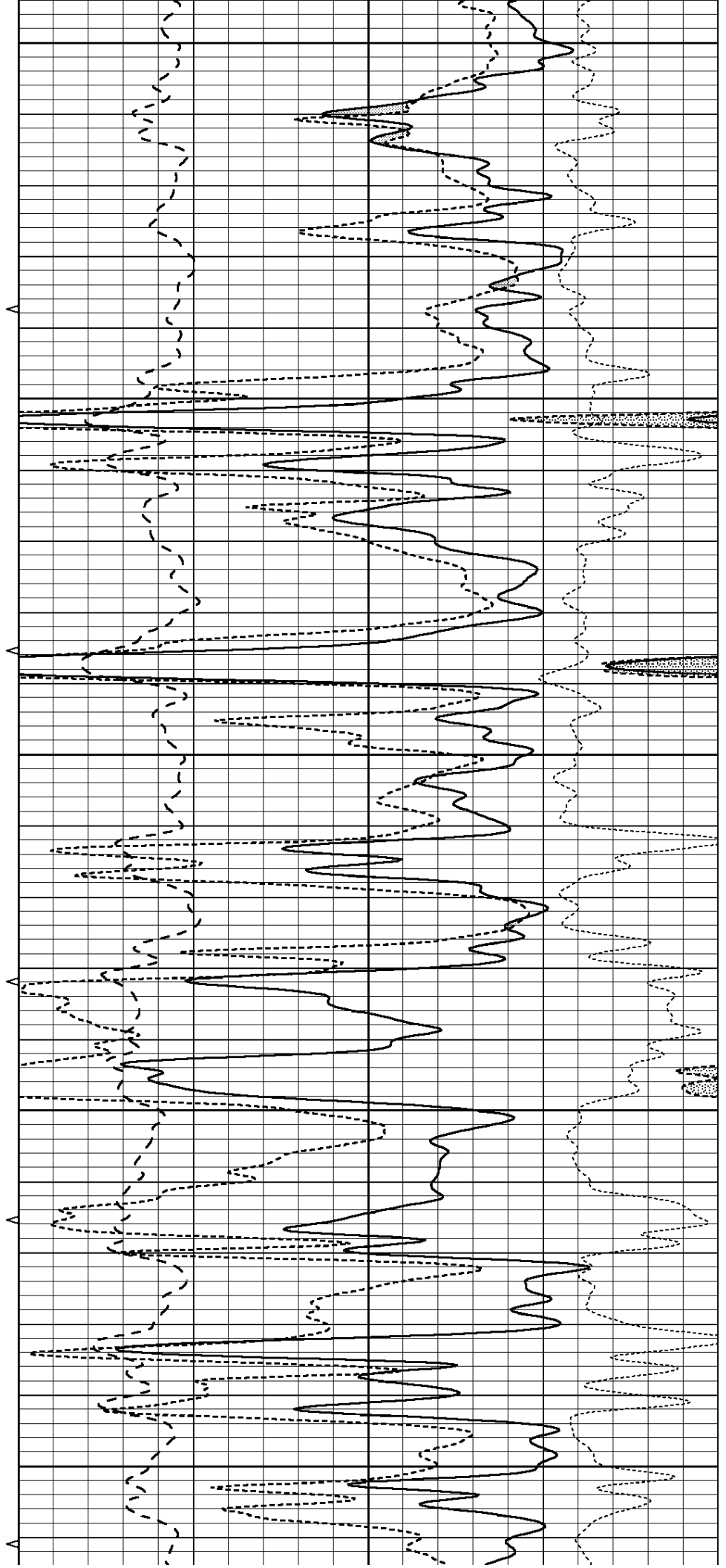
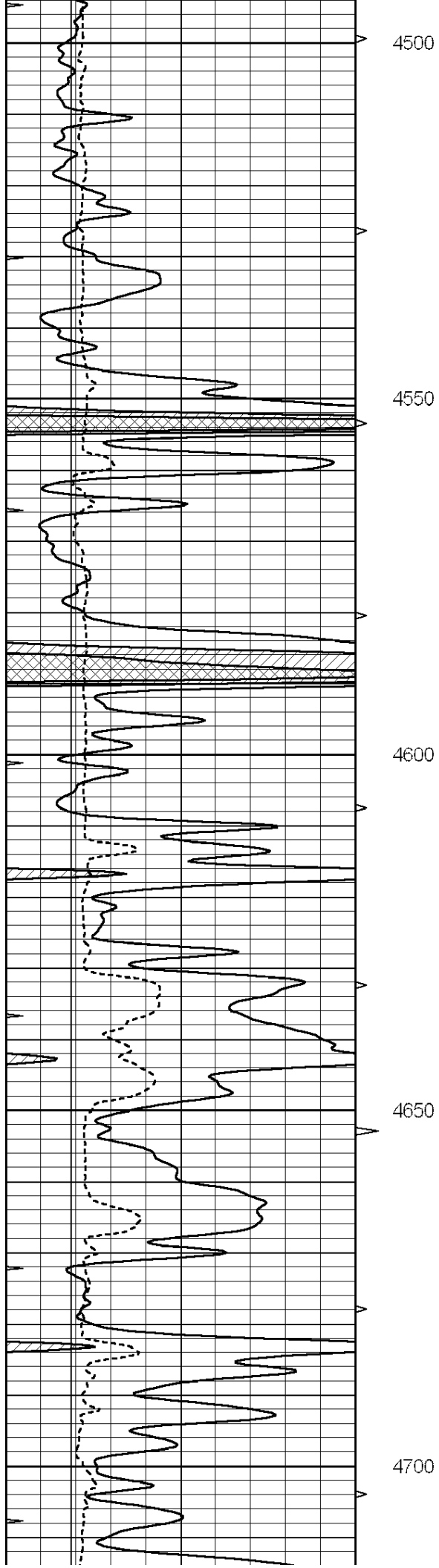
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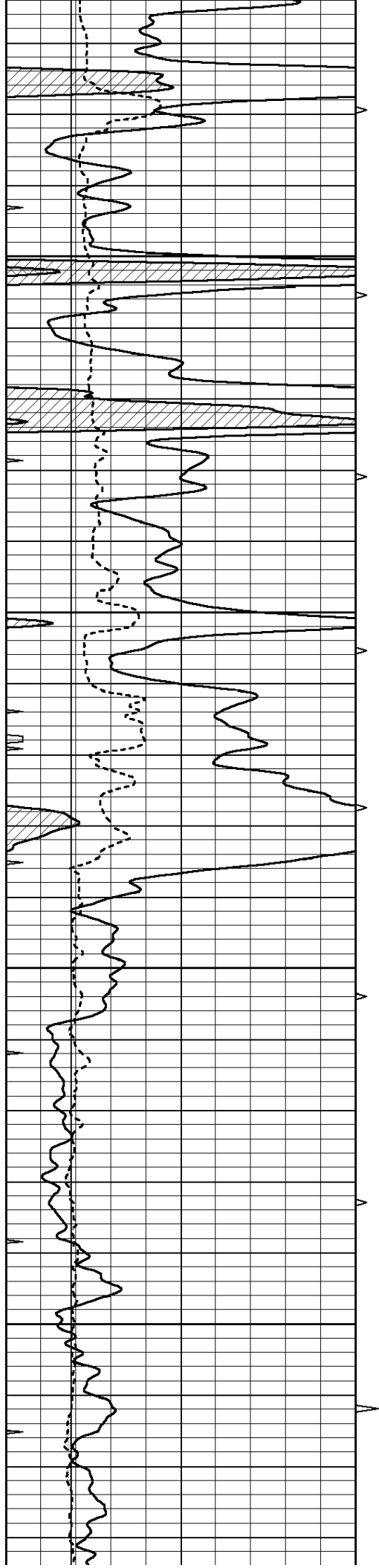
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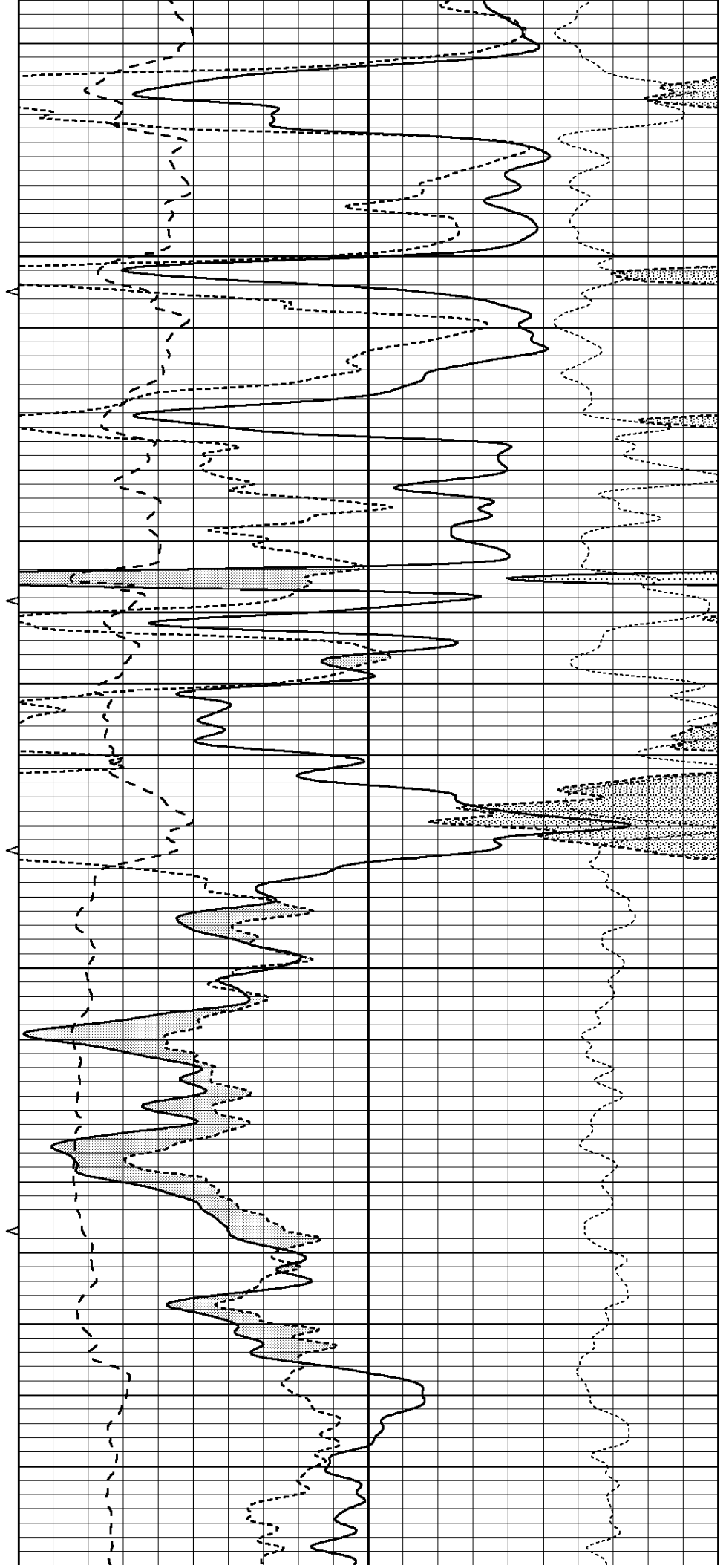


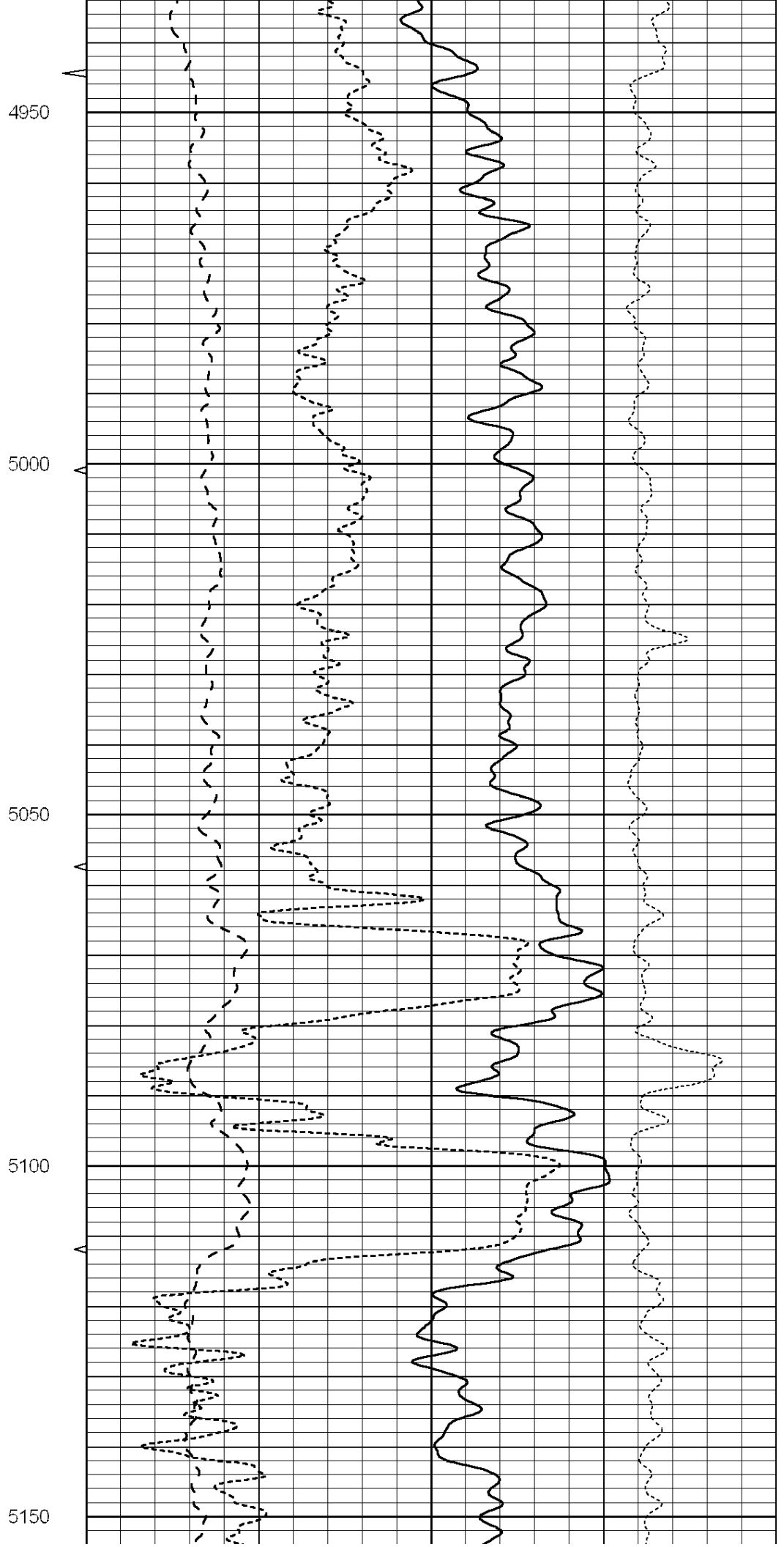
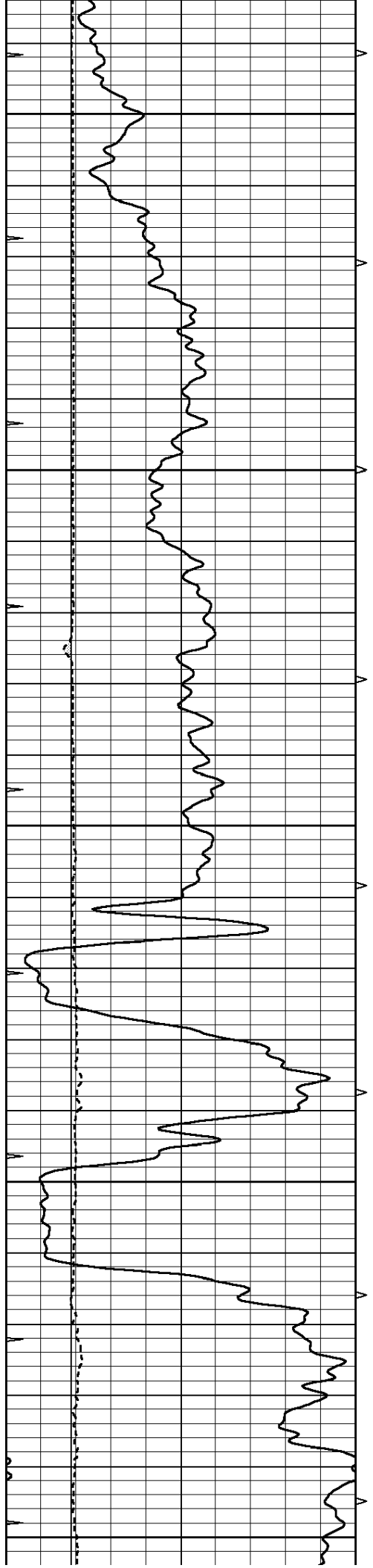
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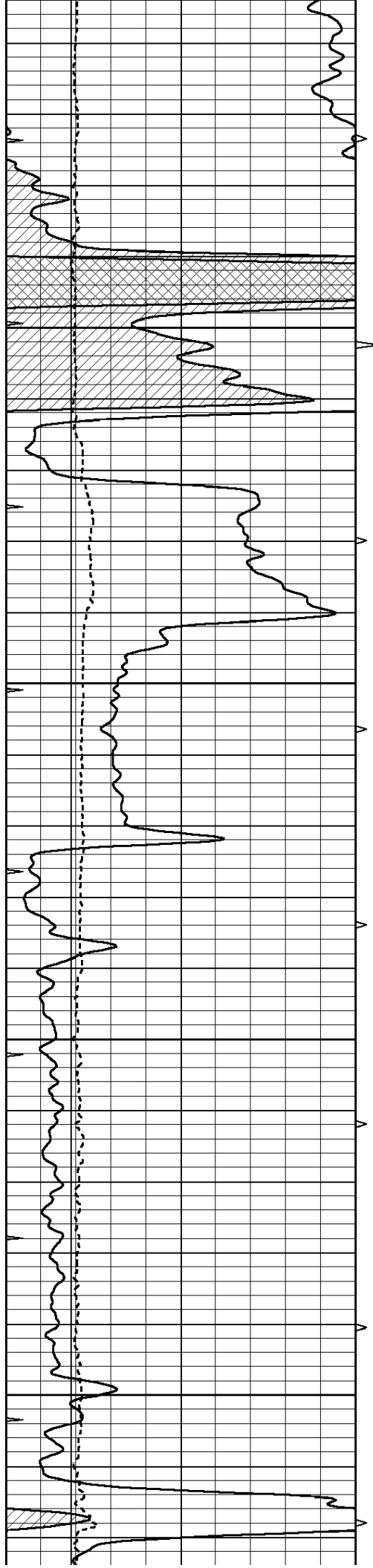
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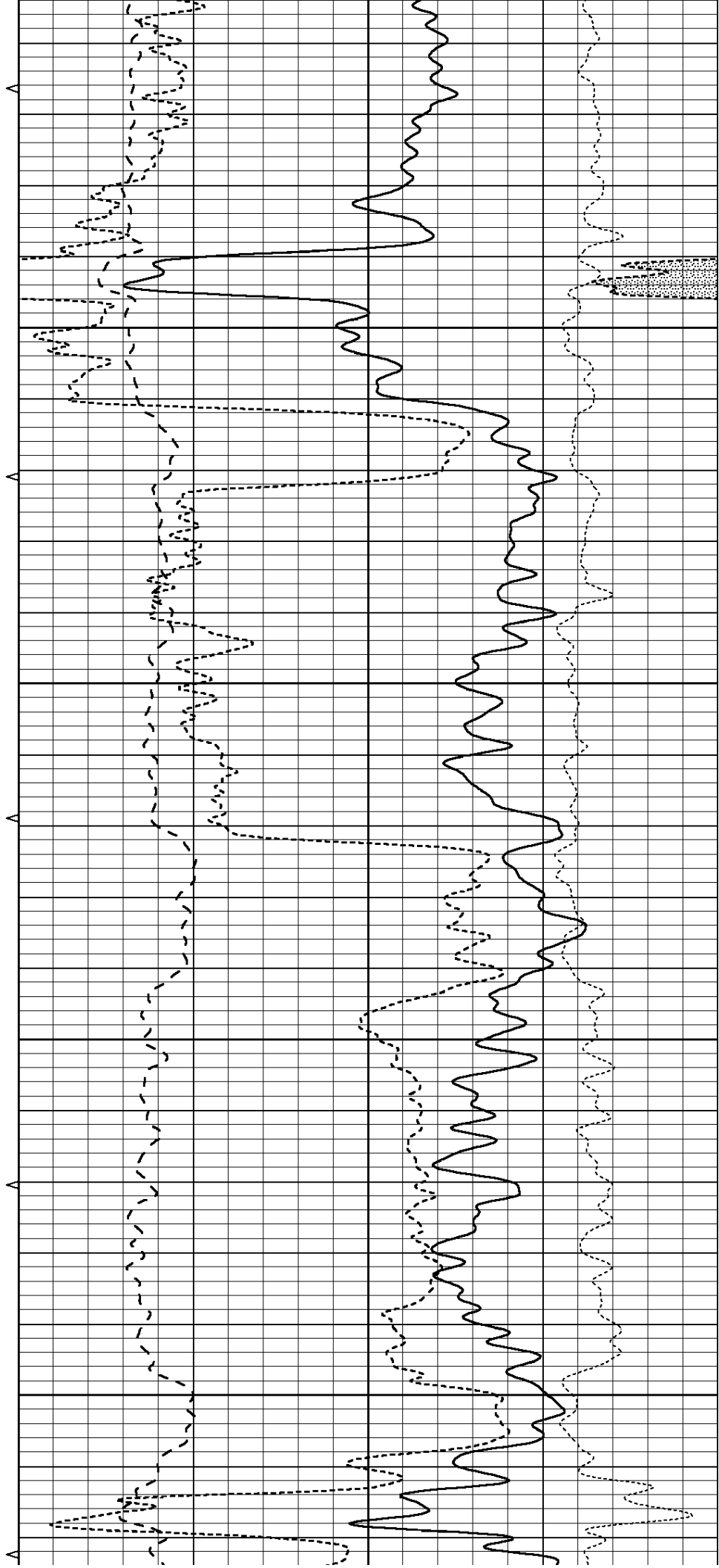


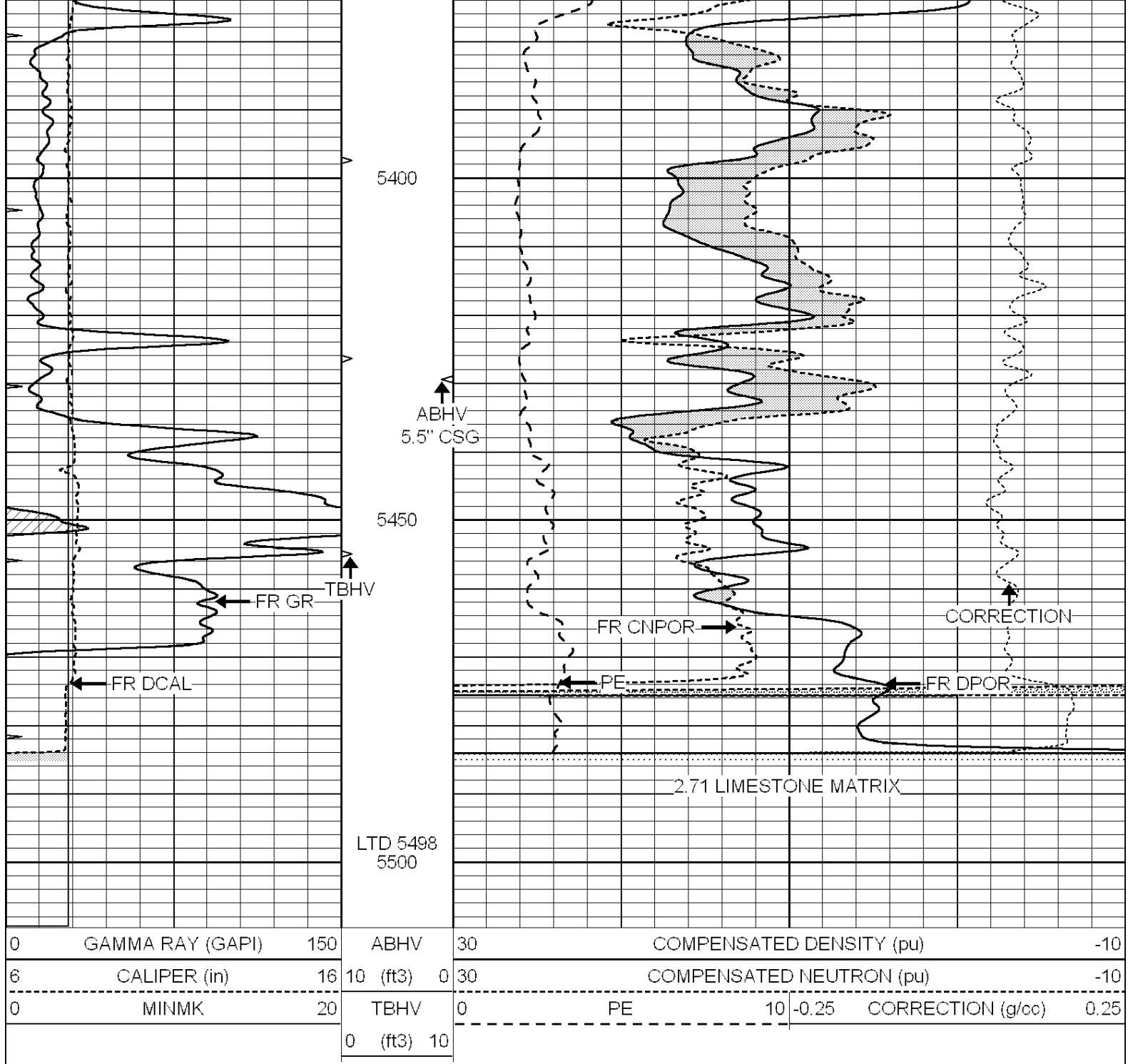
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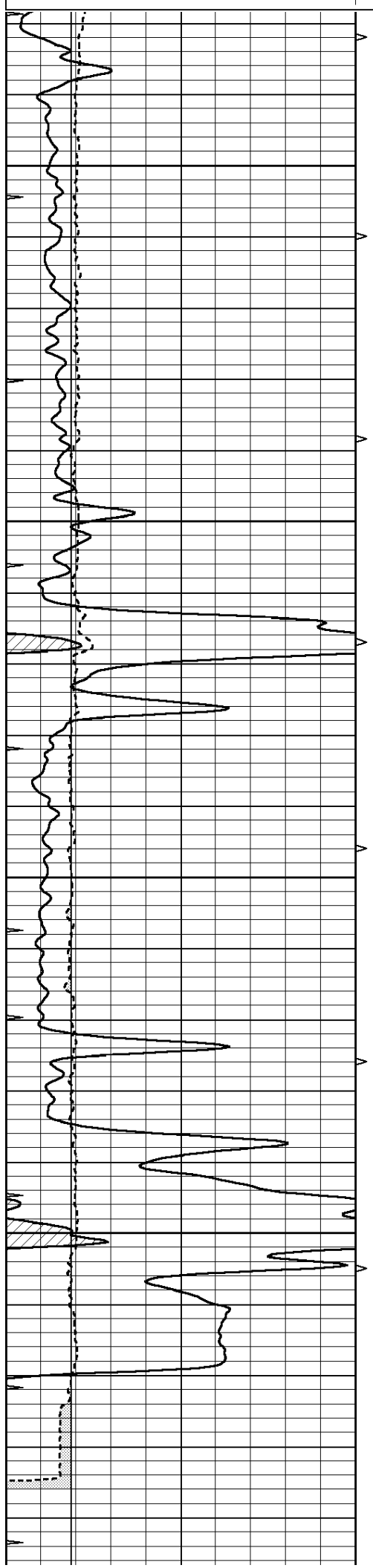


NABORS
COMPLETION
& PRODUCTION
SERVICES CO.

REPEAT SECTION

Database File: 011677pe.db
Dataset Pathname: pass2.2
Presentation Format: _ldt_neu
Dataset Creation: Fri Sep 27 20:18:14 2013 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3)	10		

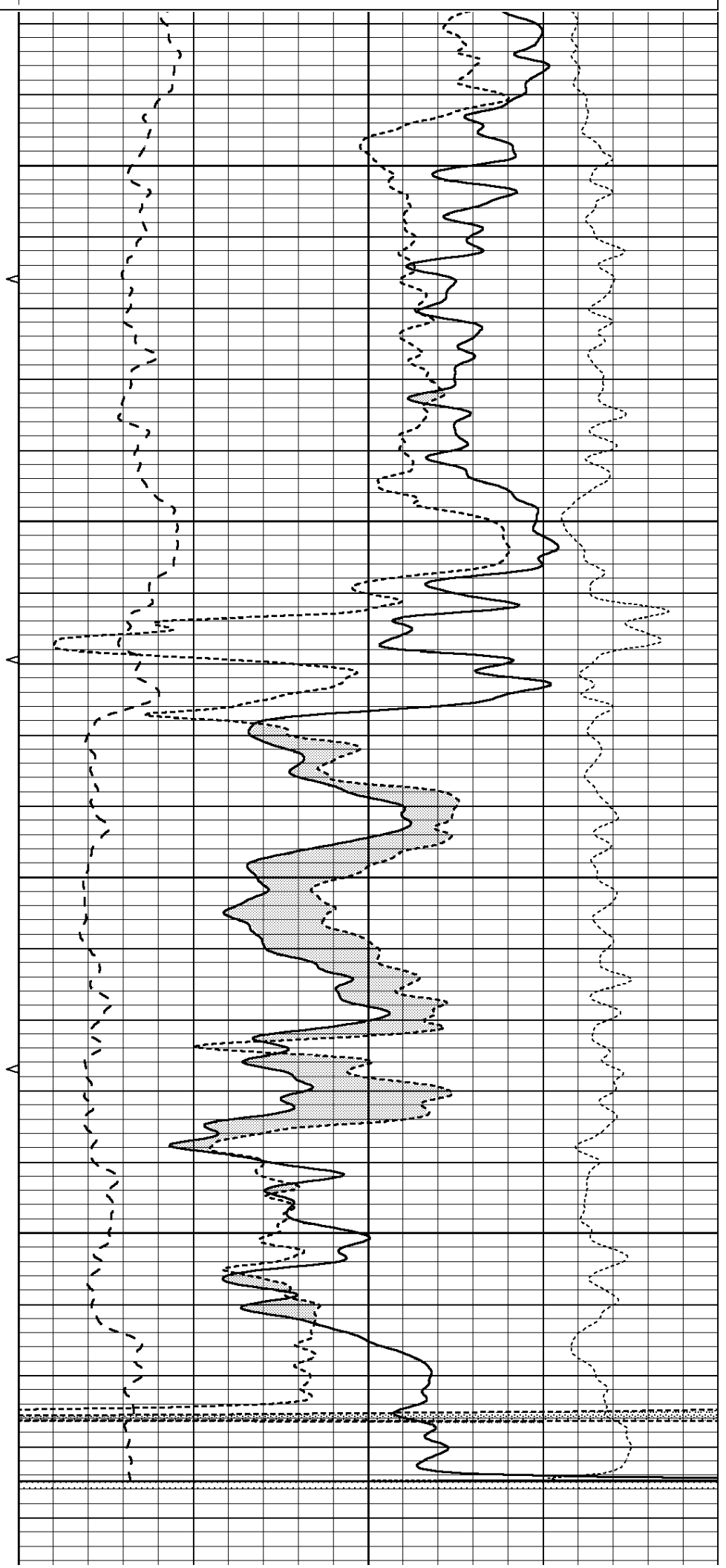


5300

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5400

5450



Window 4	186.1	185.7	176.4	168.9	cps
Long Space	0.0	6653.9	1450.8	7210.6	cps
Short Space	2.5	2515.7	1653.9	2694.6	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe		0.0000	2.5700	1.5500	
Rib Angle	: 44.6	Rib Slope	: 0.986	Density/Spine Ratio	: 0.557
Spine Angle	: 74.6	Spine Slope	: 3.631	Spine Intercept	: -19.6

Before Survey Verification			Performed Wed Dec 31 18:00:00 1969		
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

After Survey Verification			Performed Wed Dec 31 18:00:00 1969		
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

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Compensated Neutron Calibration Report

Serial Number:	070808
Tool Model:	Probe

PRE-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	070559	
Tool Model:	OPEN_GR	
Performed:	Wed Jun 12 18:25:42 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps

Sensitivity:

0.3500

GAPI/cps