

COMPENSATED
DENSITY / NEUTRON
PE LOG

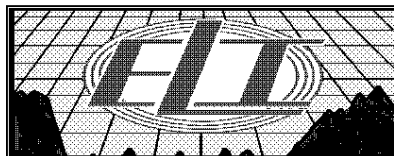
Company LOTUS OPERATING COMPANY, LLC.		Company LOTUS OPERATING COMPANY, LLC.	
Well #4 HASKARD "C"		Well #4 HASKARD "C"	
Field HARDTNER		Field HARDTNER	
County BARBER		County BARBER	
State KANSAS		State KANSAS	
Location: API # : 15-007-24363-0000		Other Services DIL/MEL SON/FF	
SEC 7 TWP 35S RGE 12W		Elevation	
Permanent Datum GROUND LEVEL Elevation 1446		K.B. 1459	
Log Measured From KELLY BUSHING 13' A.G.L.		D.F. 1457	
Drilling Measured From KELLY BUSHING		G.L. 1446	
Date 11/5/19	Run Number ONE		
Depth Driller 5630	Depth Logger 5632		
Bottom Logged Interval 5608	Top Log Interval 3800		
Casing Driller 8 5/8"@265'	Casing Logger 266		
Bit Size 7 7/8"	Type Fluid in Hole CHEMICAL MUD	CHLORIDES 3,000 PPM	
Density / Viscosity 9.6/47	pH / Fluid Loss 11.0/8.8		
Source of Sample FLOWLINE	Rim @ Meas. Temp .660@86F		
Rmf @ Meas. Temp .495@86F	Rmc @ Meas. Temp .792@86F		
Source of Rmf / Rmc MEASUREMENT	Rim @ BHT .433@131F		
Time Circulation Stopped 3 HOURS	Time Logger on Bottom 5:00 P.M.		
Maximum Recorded Temperature 131F	Equipment Number 922339		
Location HAYS, KANSAS	Recorded By JEFF LUEBBERS		
Witnessed By TIM HELLMAN			

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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, KANSAS (785) 628-6395
DIRECTIONS
HARDTNER, KS., 1 W. ON "HACKBERRY RD." N. INTO @ TANK BATTERY

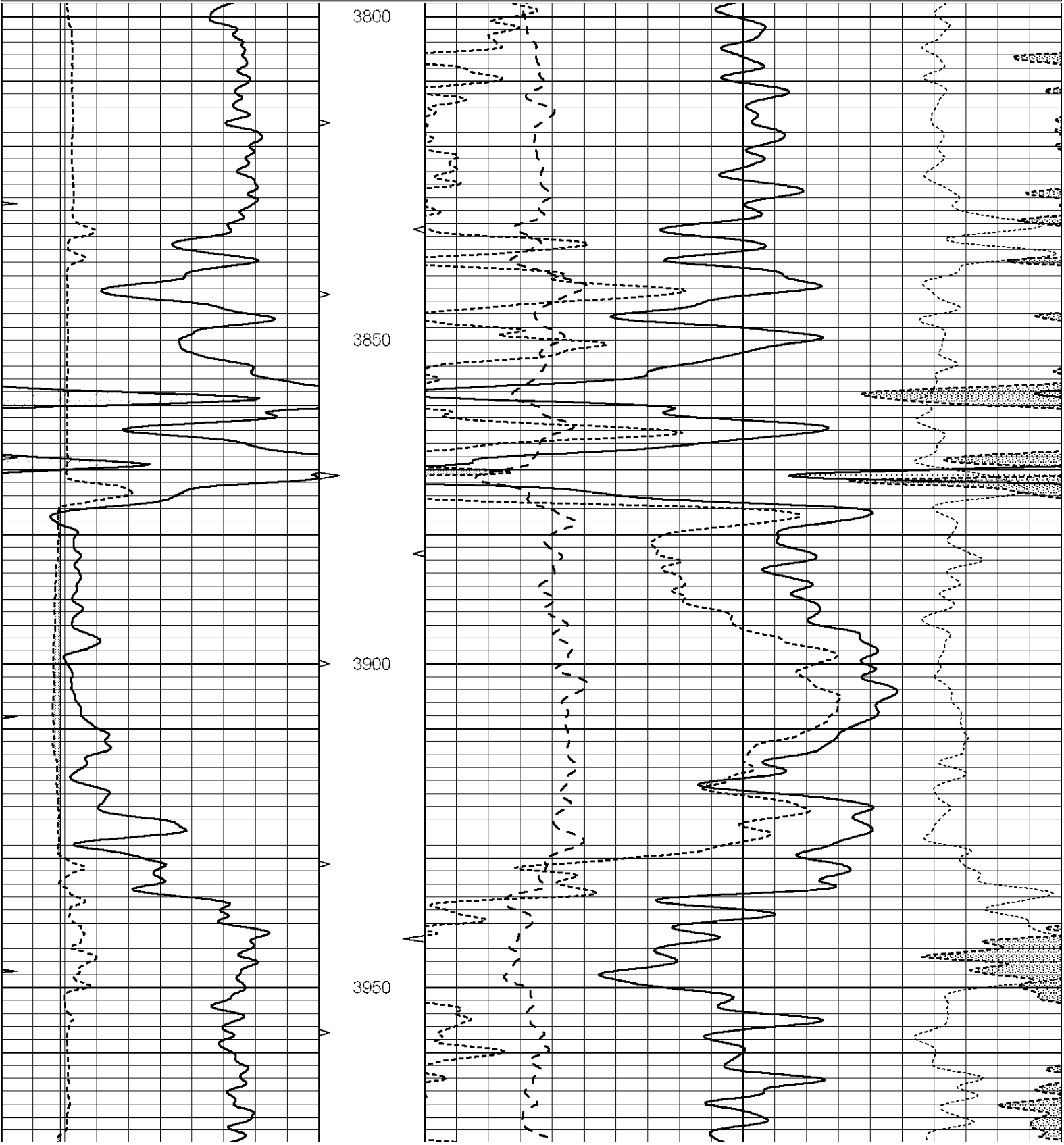


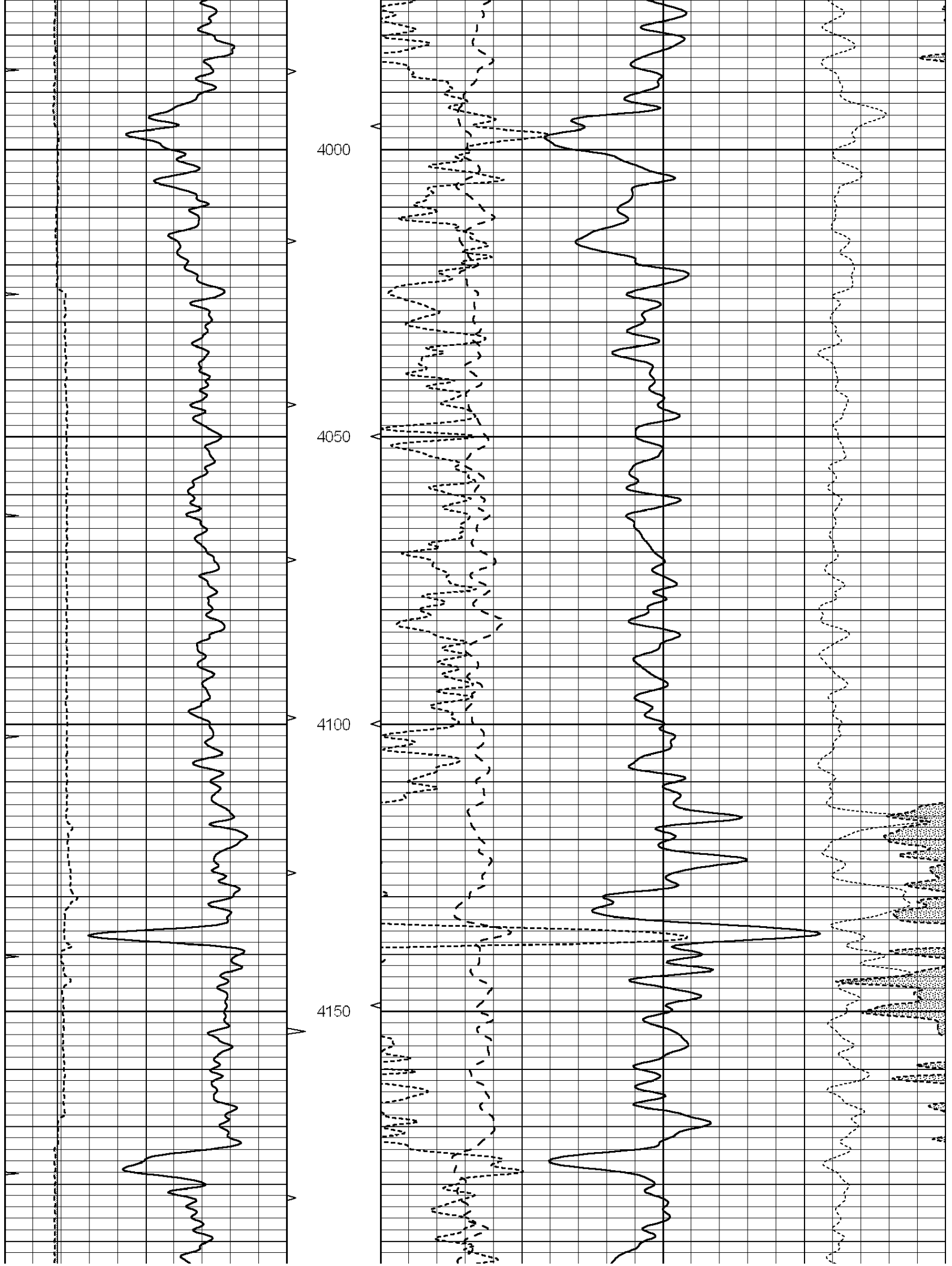
MAIN SECTION

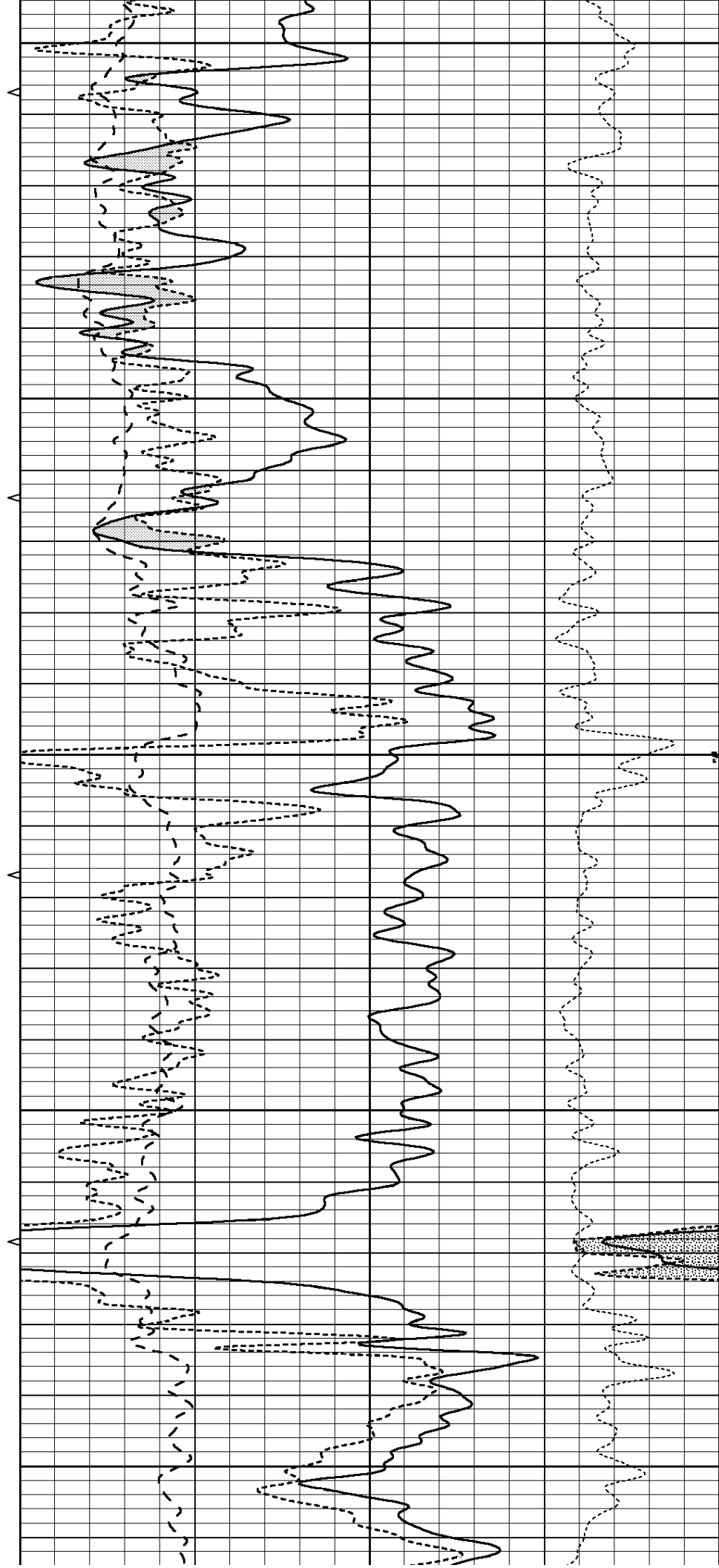
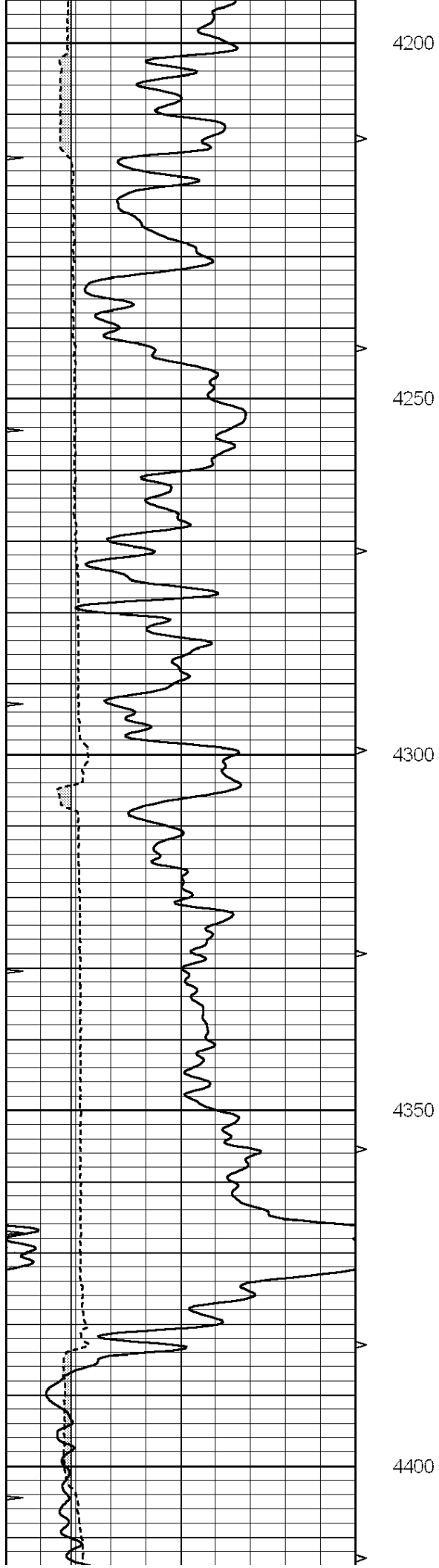
Database File: 4379pe.db
Dataset Pathname: pass3.9
Presentation Format: ldt_neu
Dataset Creation: Tue Nov 05 18:35:48 2019 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:240

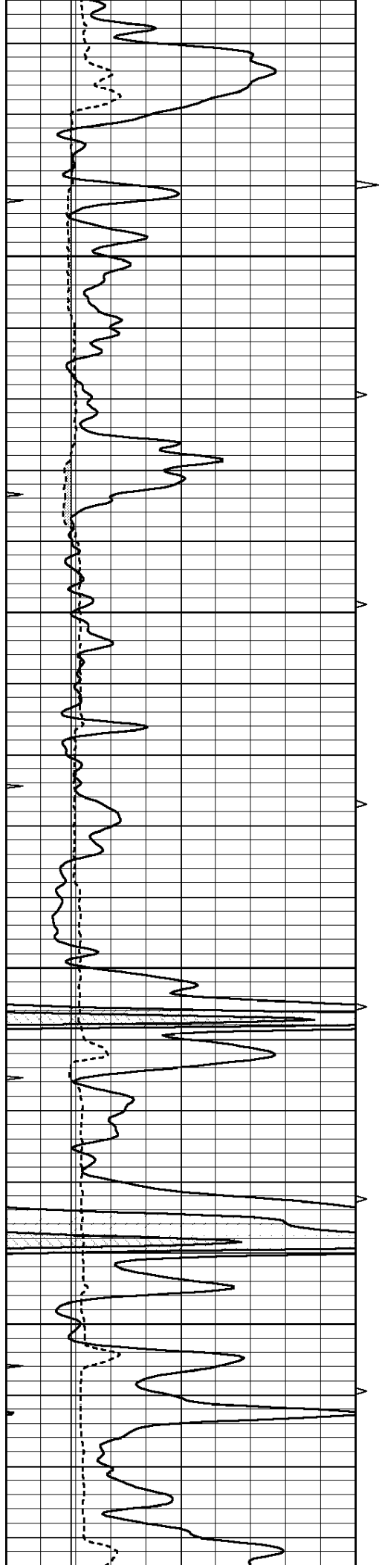
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)			-10	
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)			-10

0	MINMK	20	TBHV	0	PE	10	-0.25	CORRECTION (g/cc)	0.25
			0 (ft3)	10	-----				







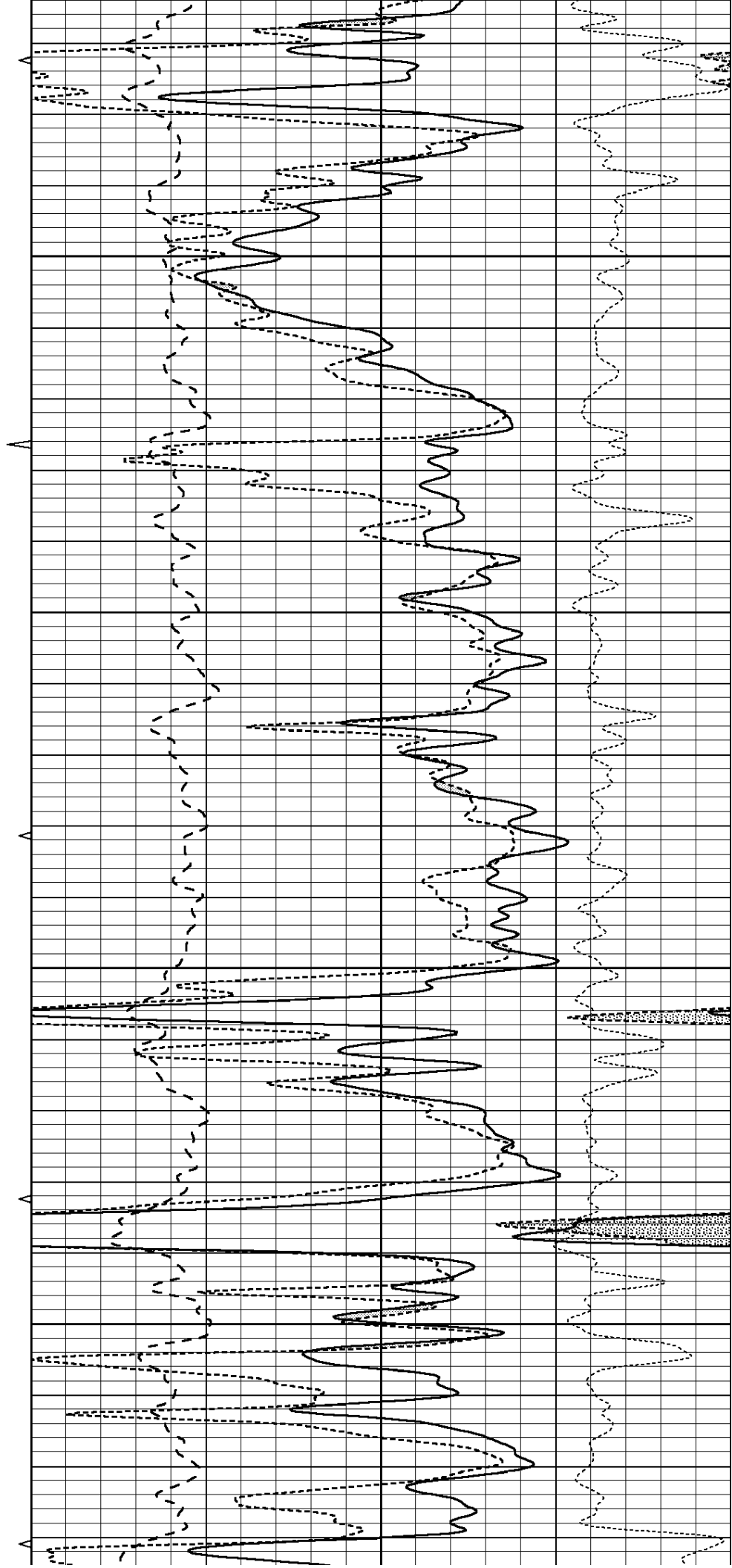


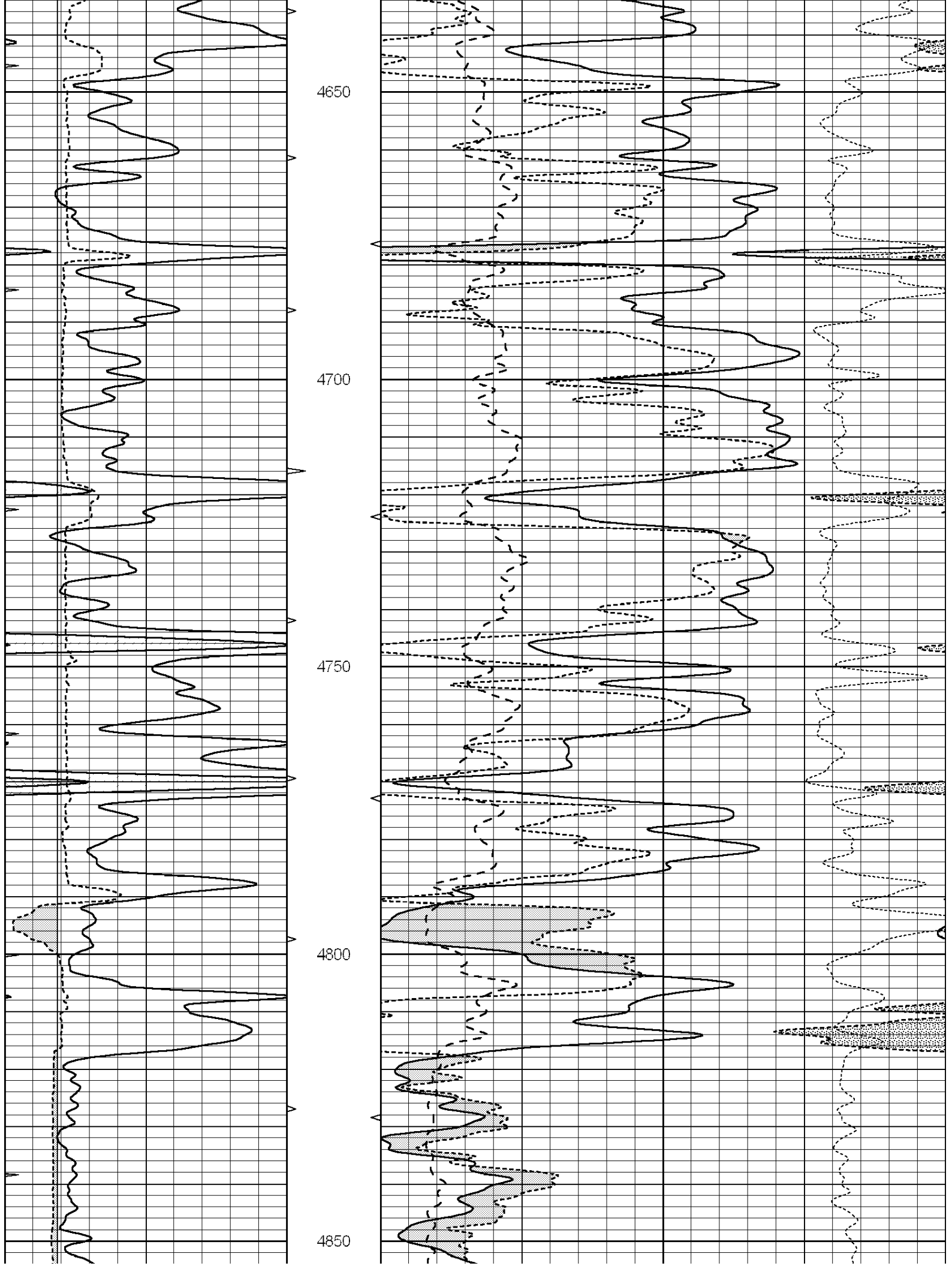
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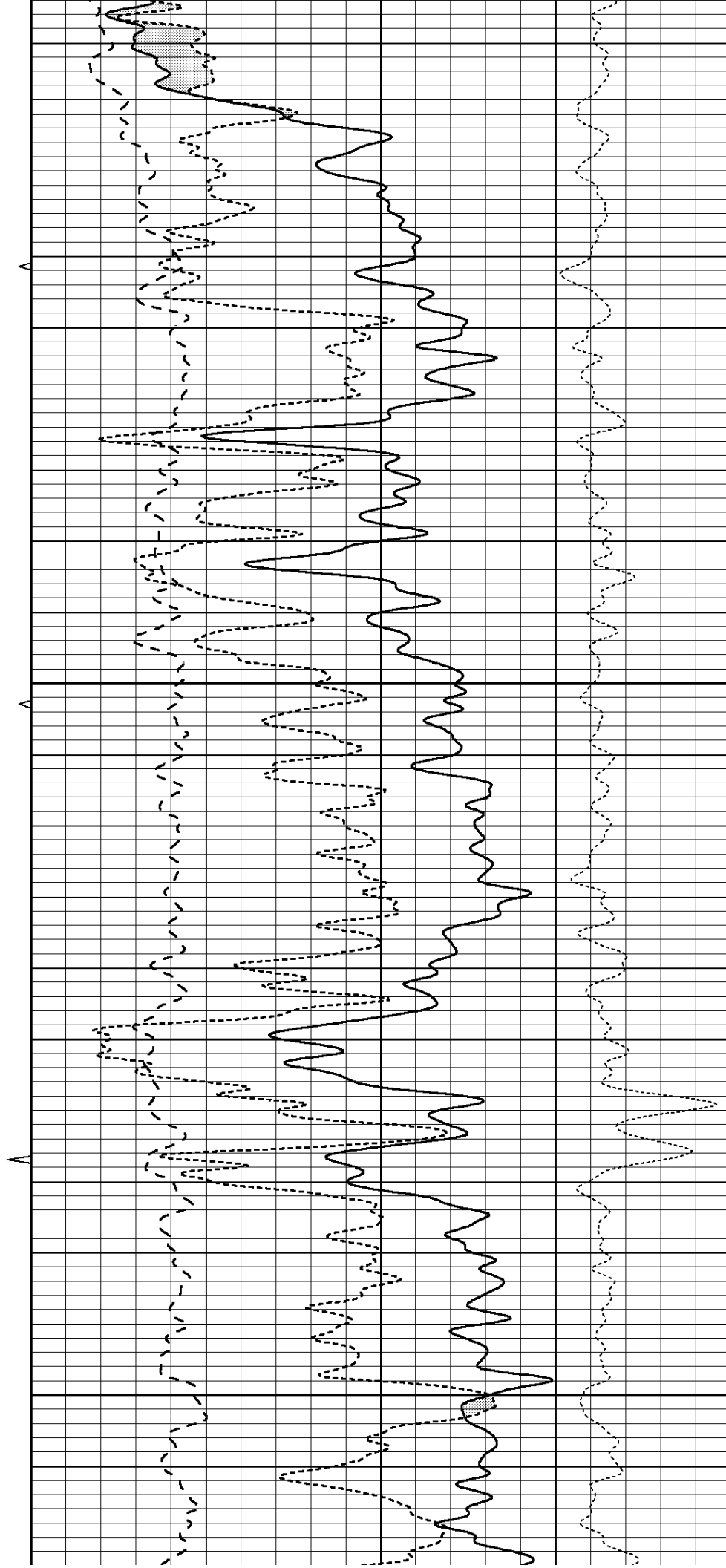
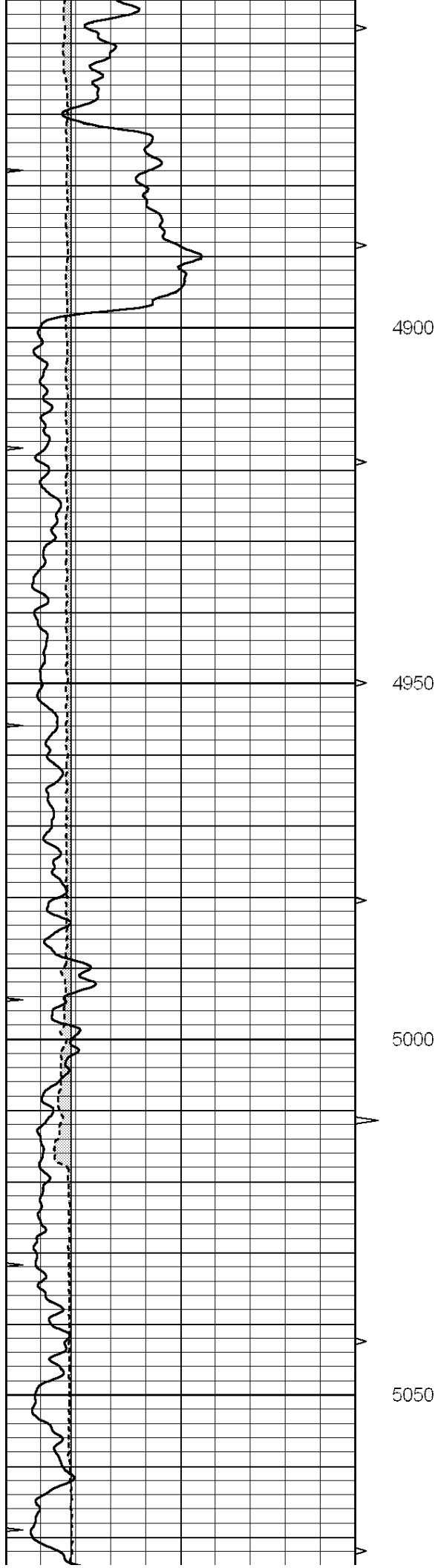
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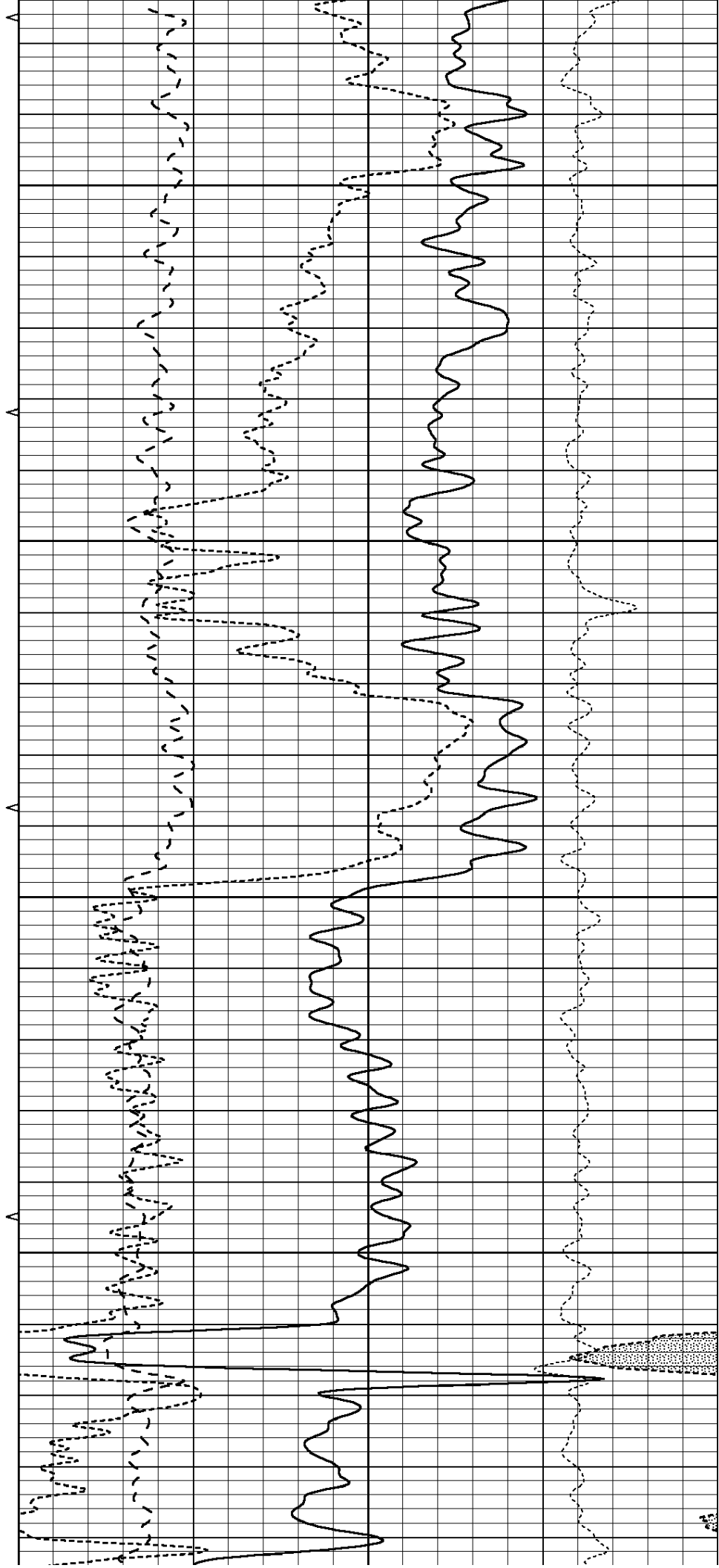
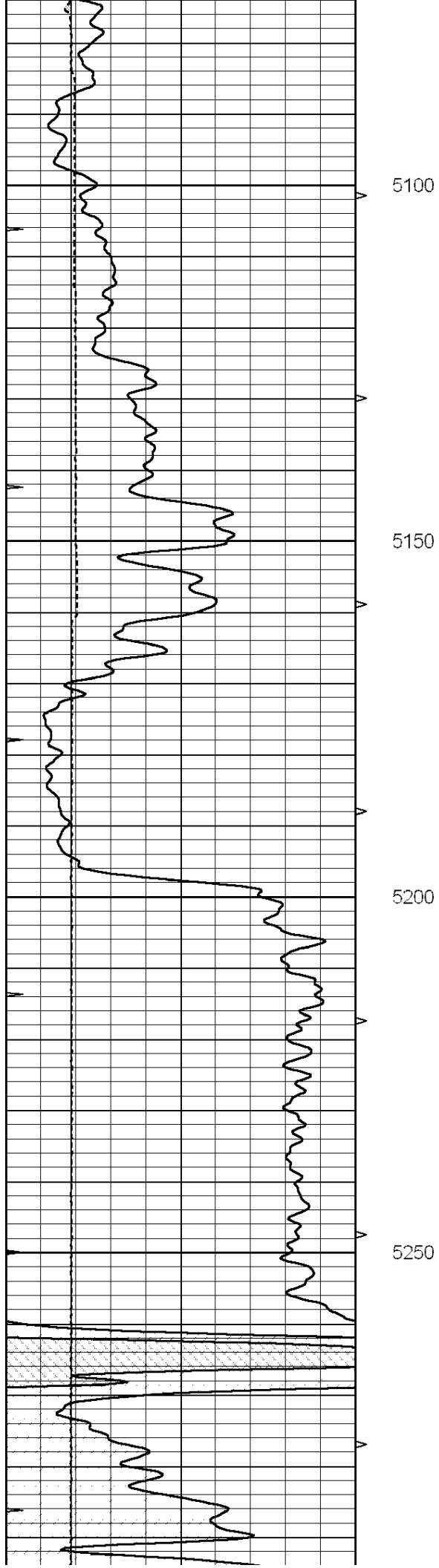
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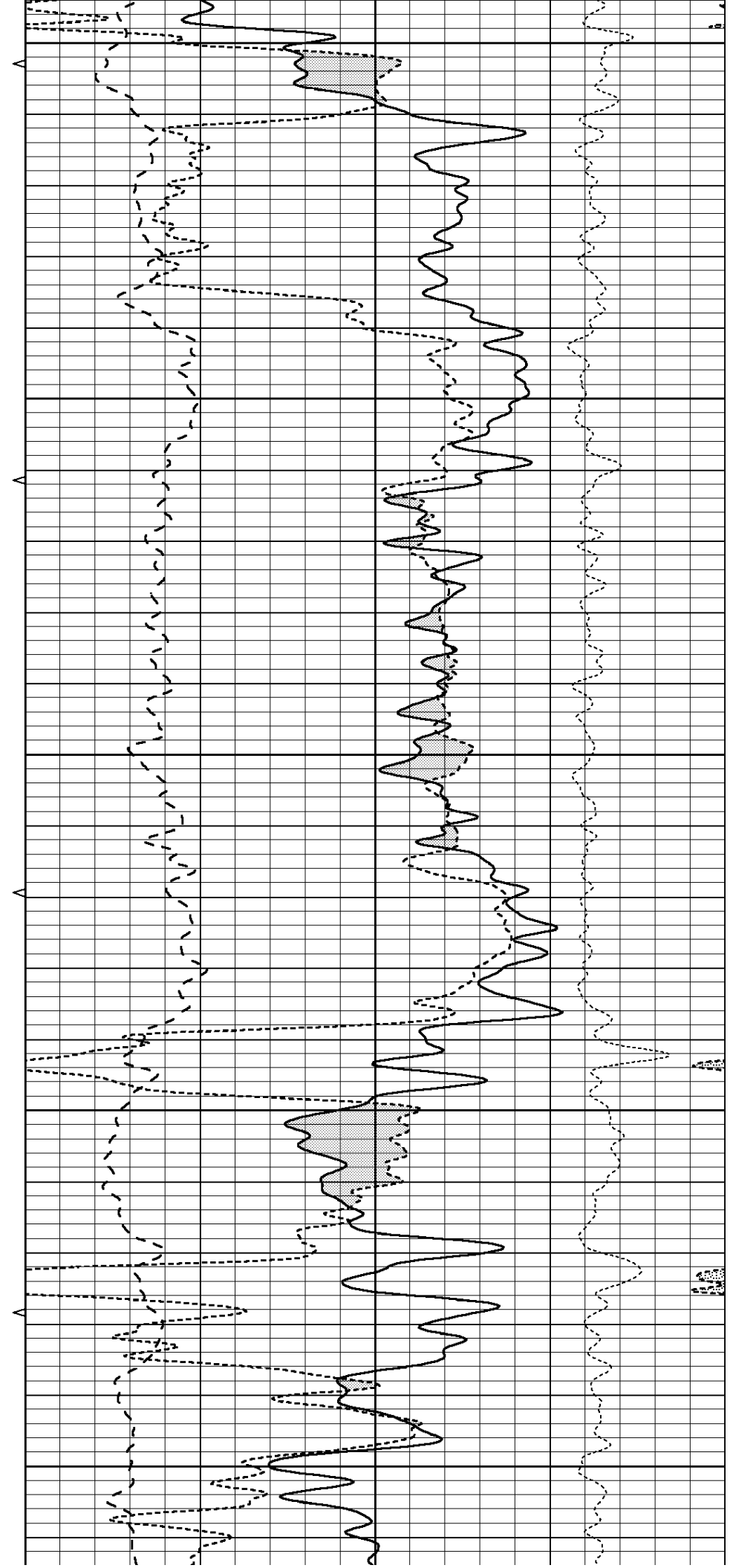
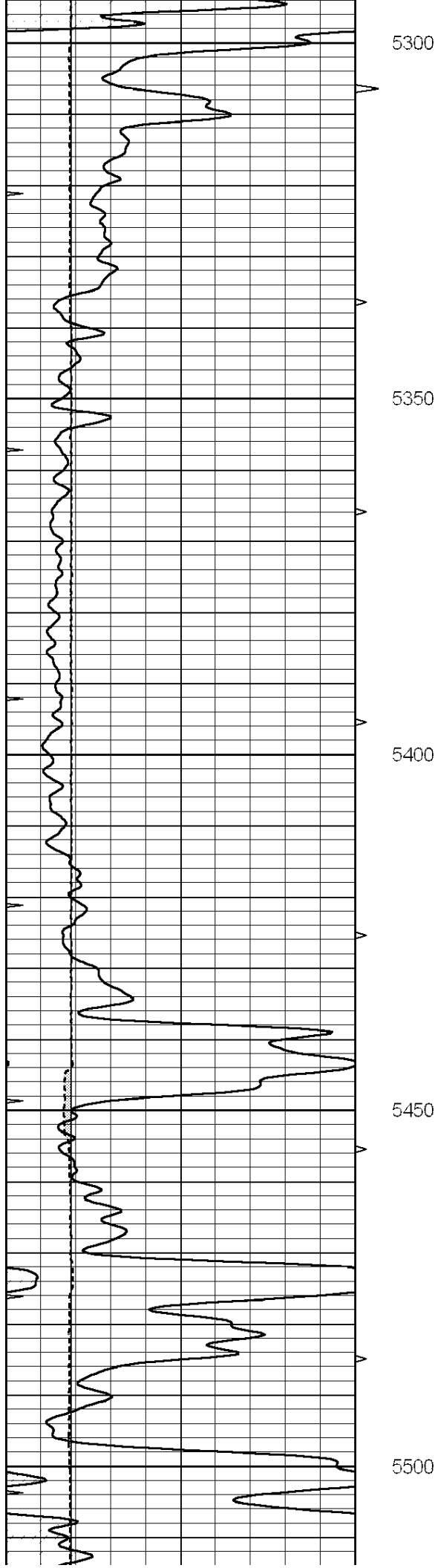
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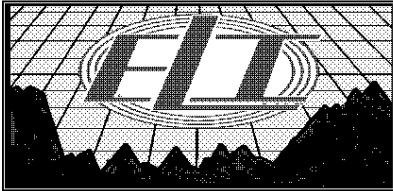
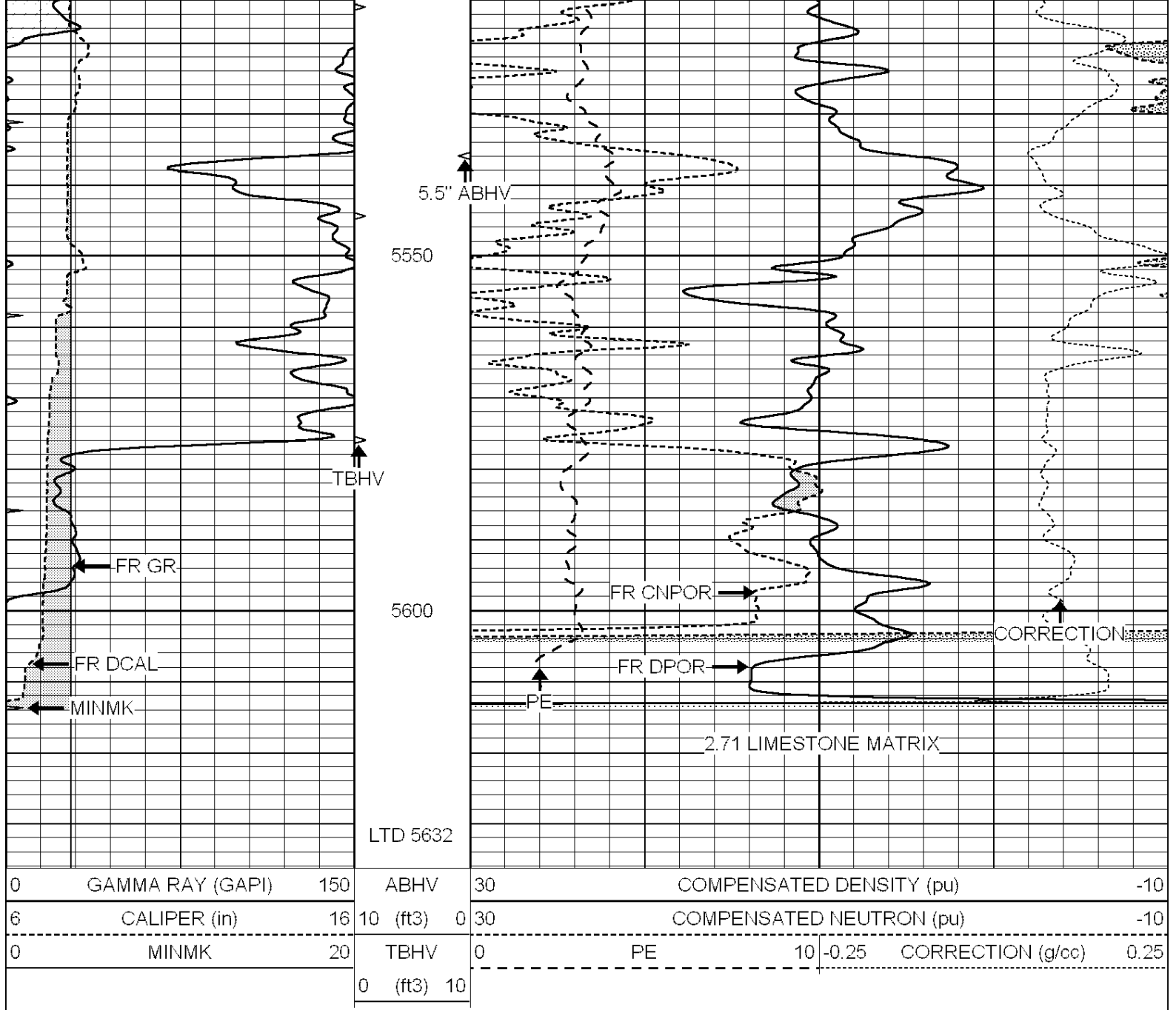






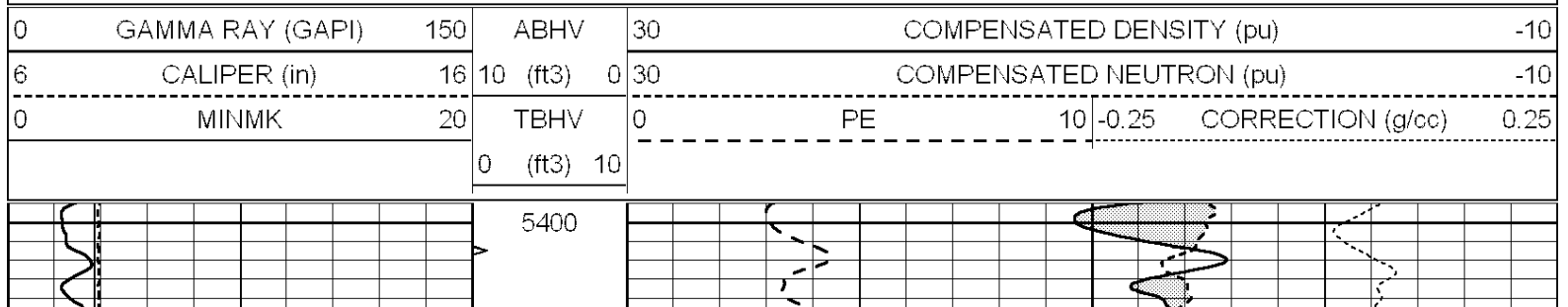


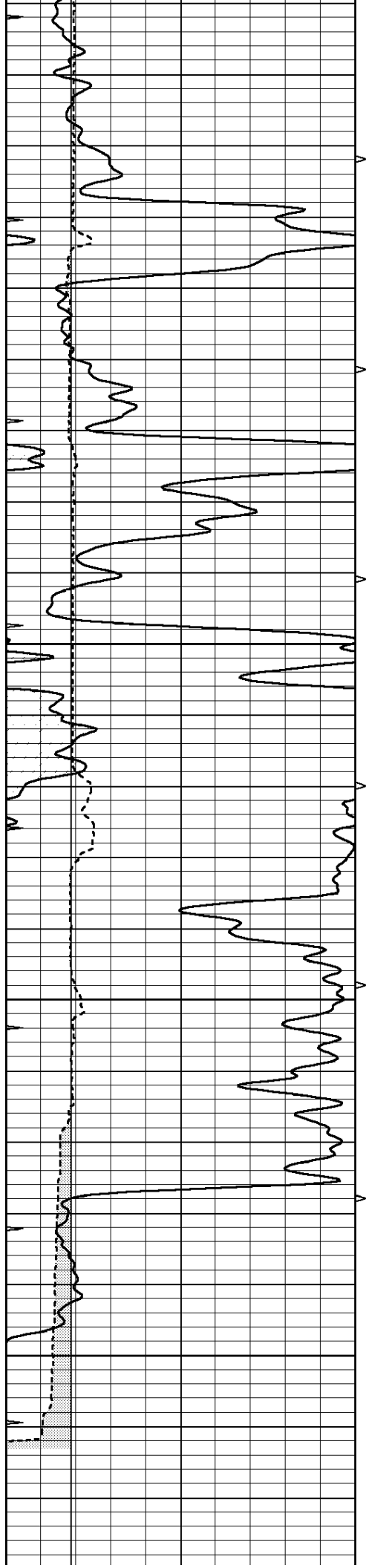




REPEAT SECTION

Database File: 4379pe.db
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 Presentation Format: ldt_neu
 Dataset Creation: Tue Nov 05 17:23:41 2019
 Charted by: Depth in Feet scaled 1:240



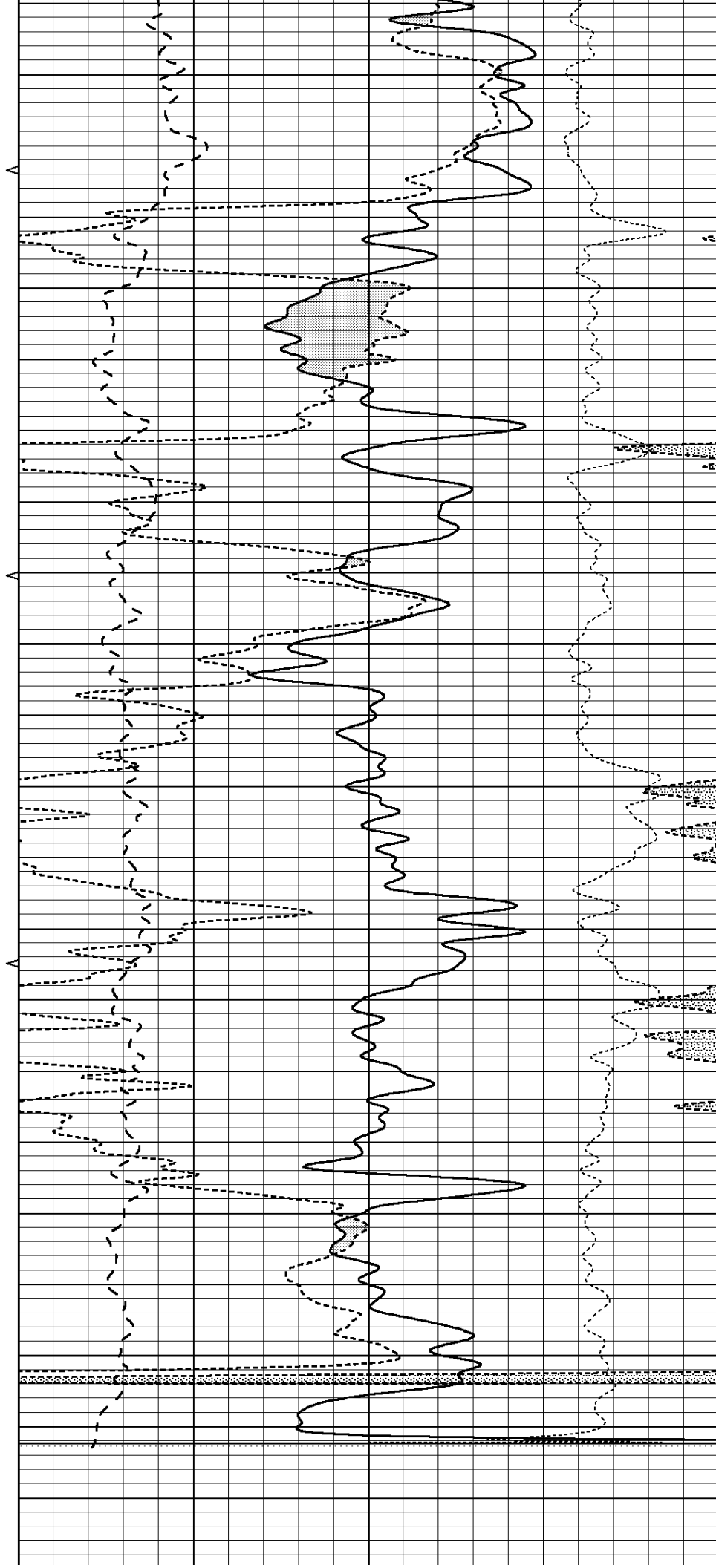


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Long Space	0.0	8345.4	1798.1	9425.3	cps
Short Space	1.1	1927.9	1285.9	2050.2	cps
Rho		1.7100	2.5960	1.3800	g/cc
Pe		0.0000	2.5700	1.5500	
Rib Angle	: 45.2	Rib Slope	: 1.008	Density/Spine Ratio	: 0.558
Spine Angle	: 75.2	Spine Slope	: 3.790	Spine Intercept	: -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:	070558	
Tool Model:	OPEN_GR	
Performed:	Wed May 31 00:09:32 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps

Sensitivity:

0.2800

GAPI/cps