

COMPENSATED DENSITY / NEUTRON PE LOG

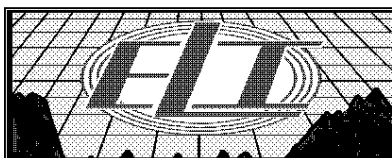
Company	STEWART PRODUCERS, INC.		
Well	JR RANCH #1		
Field	WILDCAT		
County	WABAUNSEE		
State	KANSAS		
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Well	JR RANCH #1		
Field	WILDCAT		
County	WABAUNSEE		
State	KANSAS		
Location:	API # : 15-197-20309-0000 840' FNL & 2305' FVL NW - SE - NE - NW		Other Services DIL/MEL SONIC
Permanent Datum	GROUND LEVEL		Elevation 1395
Log Measured From	KELLY BUSHING 9' A.G.L.		
Drilling Measured From	KELLY BUSHING		Elevation K.B. 1404 D.F. 1402 G.L. 1395
Date	5/14/19		
Run Number	ONE		
Depth Driller	3280		
Depth Logger	3280		
Bottom Logged Interval	3256		
Top Log Interval	1000		
Casing Driller	8 5/8"@301'		
Casing Logger	311		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		CHLORIDES 1,100 PPM
Density / Viscosity	9.2/49		
pH / Fluid Loss	9.5/8.5		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.60@80F		
Rmf @ Meas. Temp	1.20@80F		
Rmc @ Meas. Temp	1.92@80F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	1.16@110F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	8:30 A.M.		
Maximum Recorded Temperature	110F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	AARON YOUNG		

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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

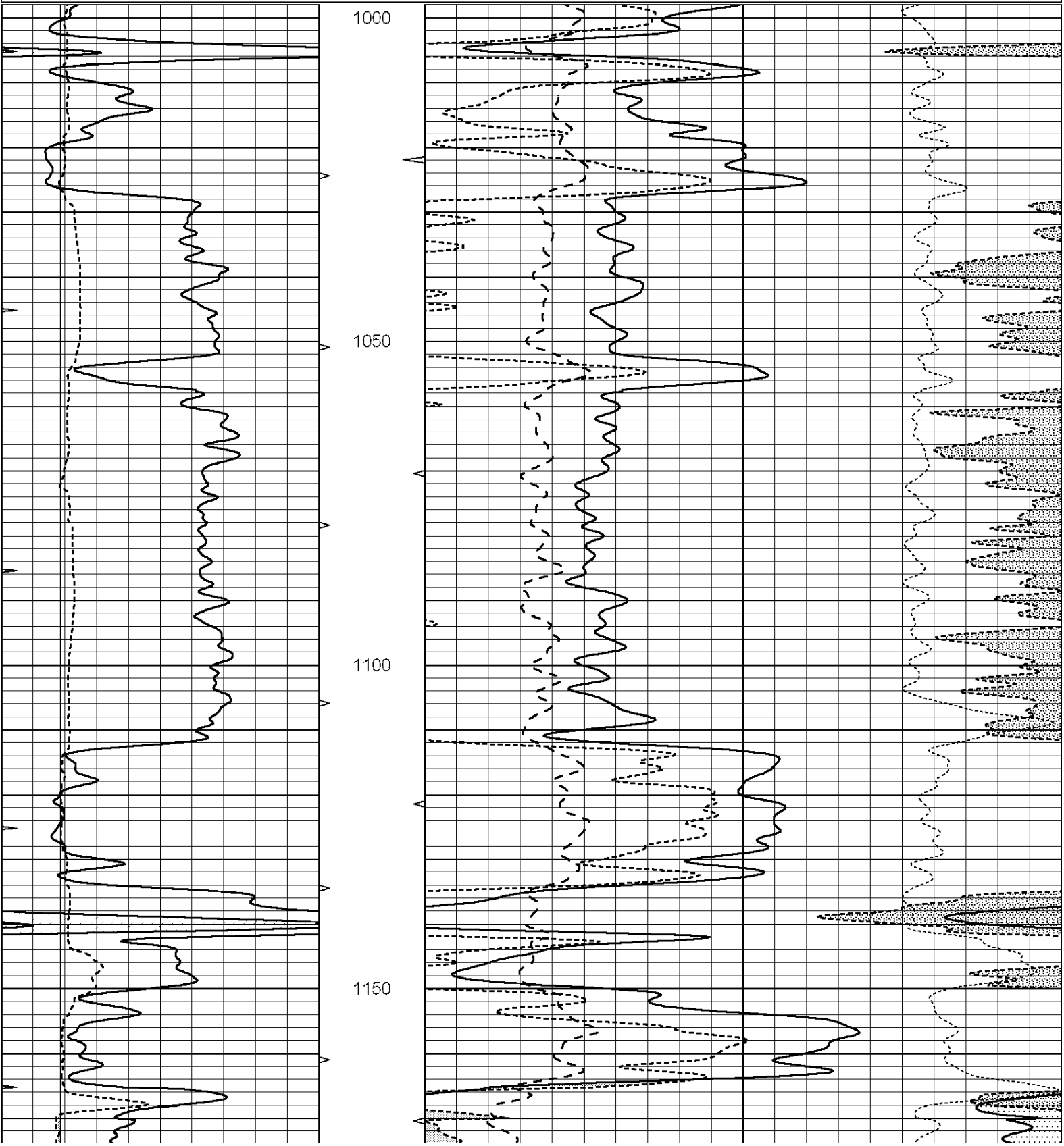
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
ESKRIDGE, KS., 3S. ON HWY 99 TO "HEADWATERS RD.", 2 1/2W., S. INTO

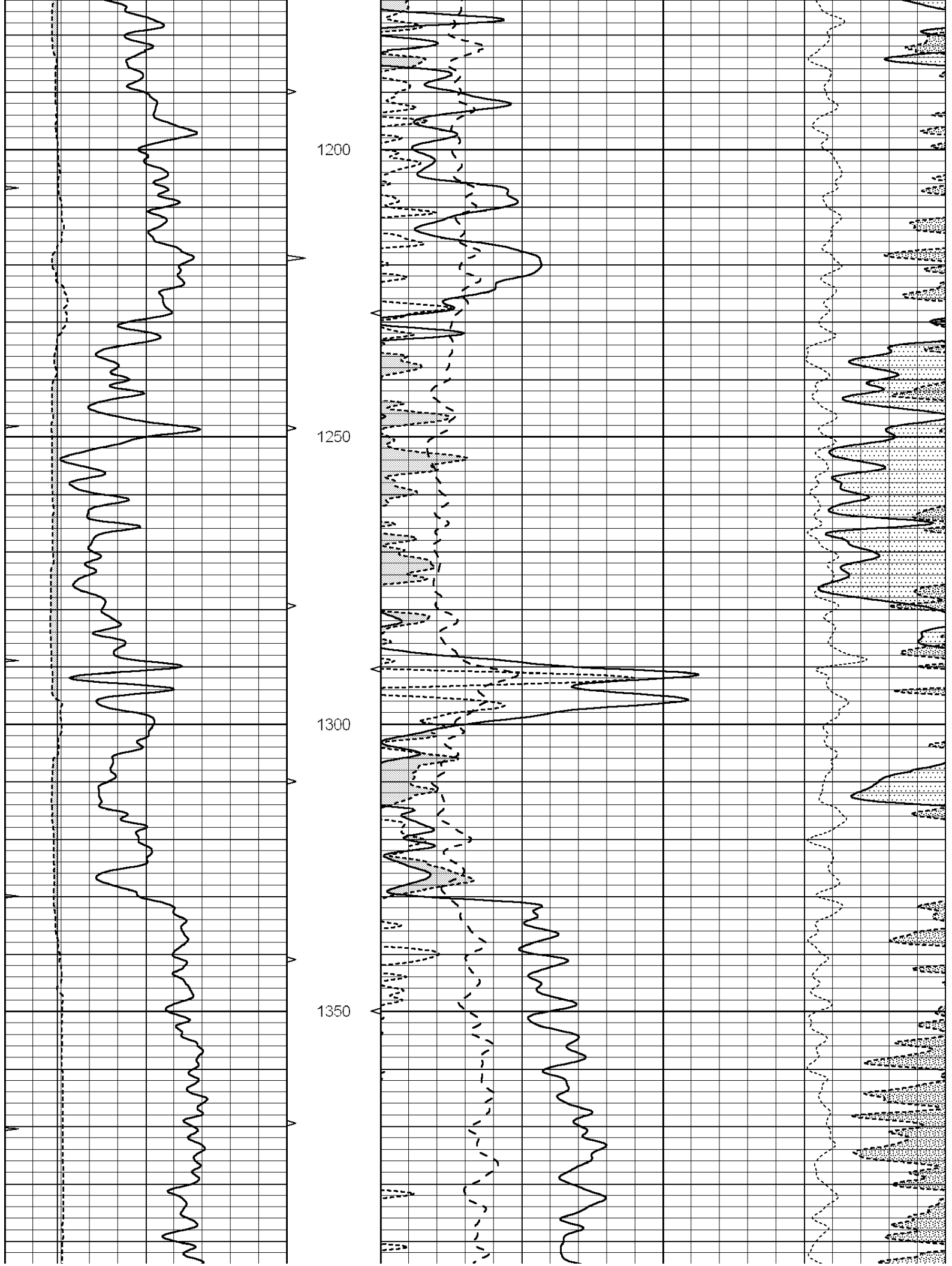


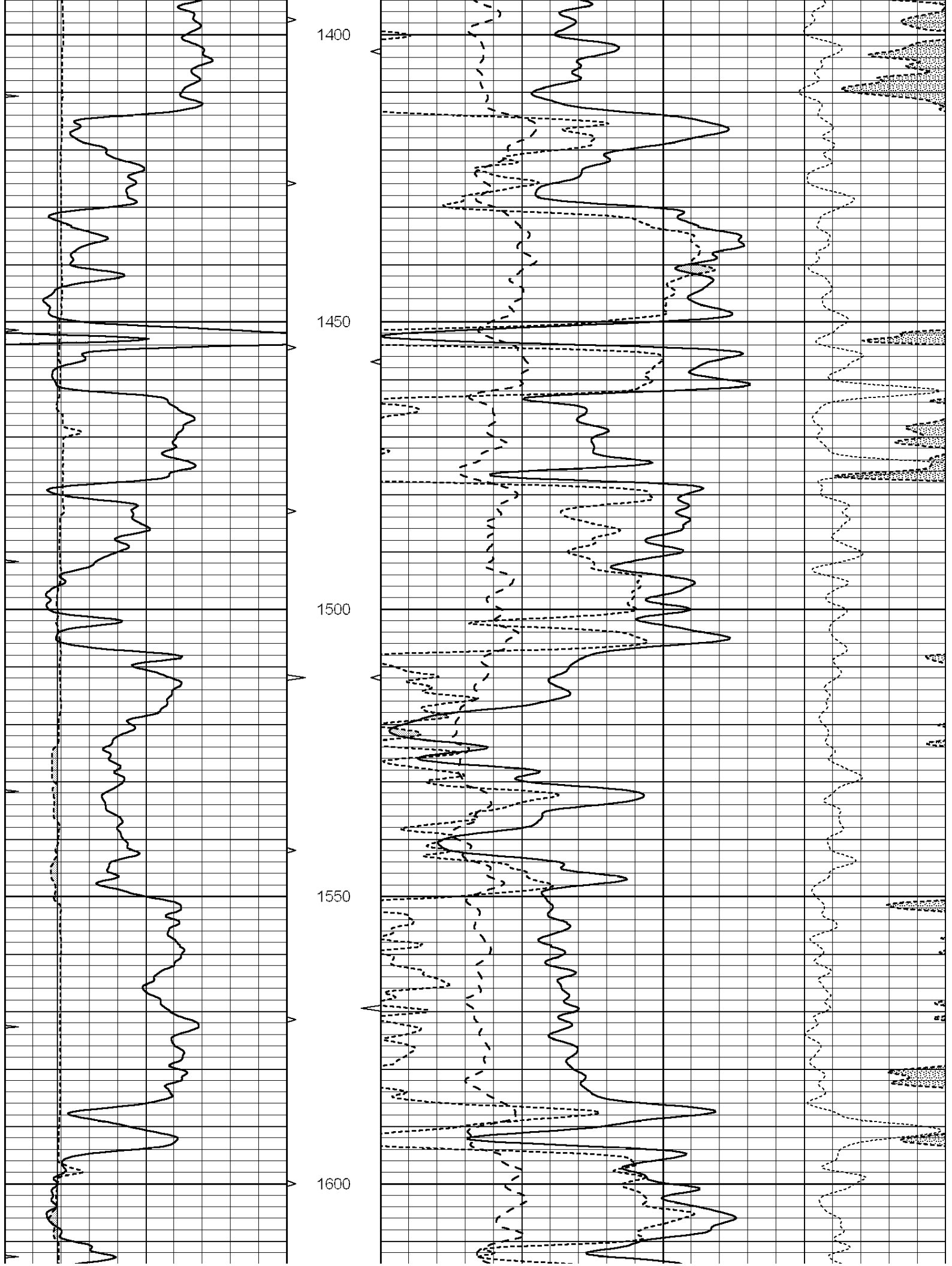
MAIN SECTION

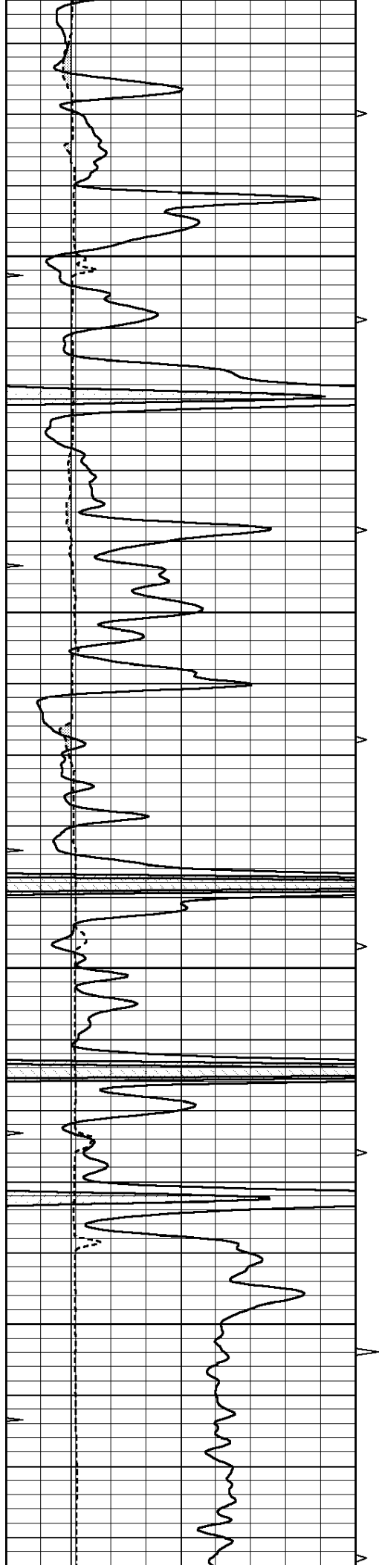
Database File: 3621pe.db
Dataset Pathname: pass5.6
Presentation Format: ldt_neu
Dataset Creation: Wed May 15 13:16:01 2019
Charted by: Depth in Feet scaled 1:240

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







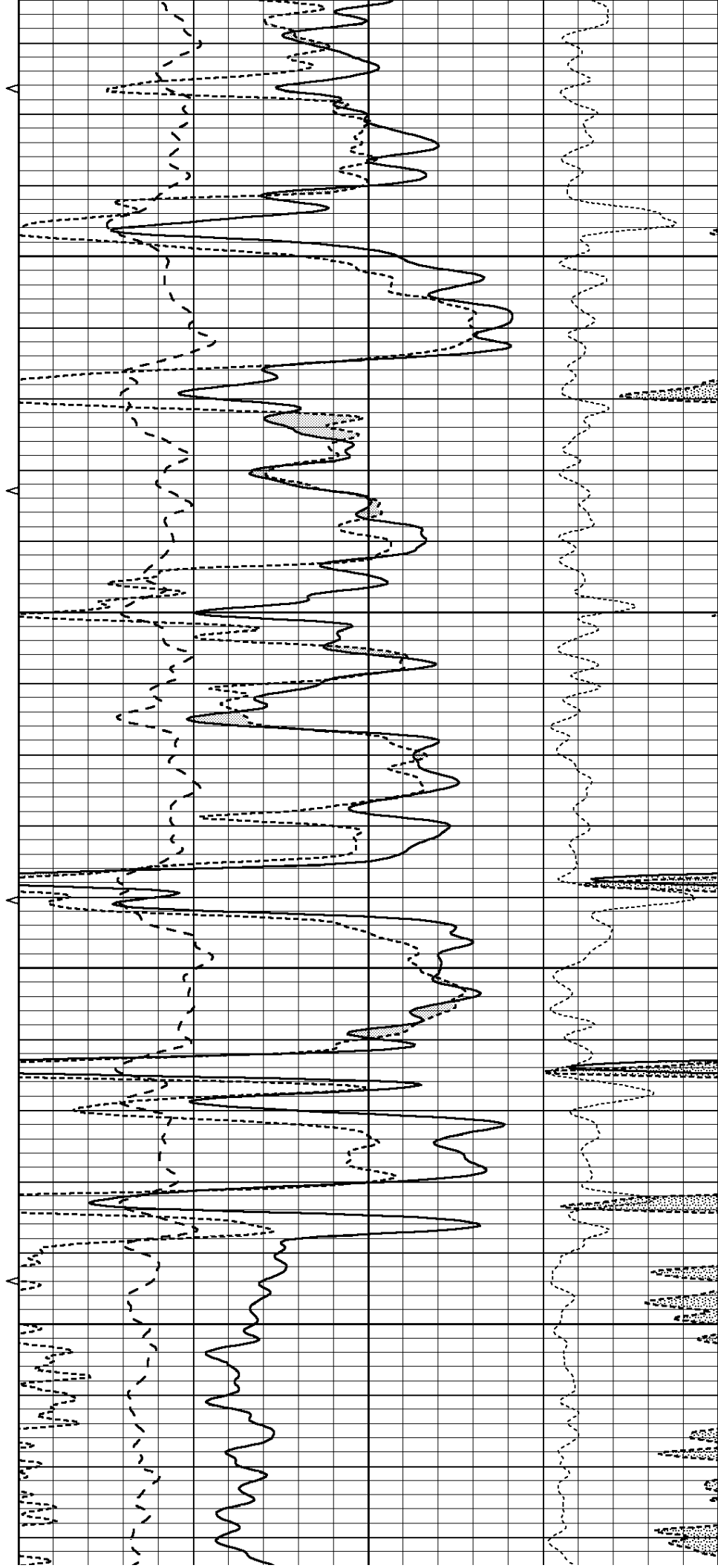


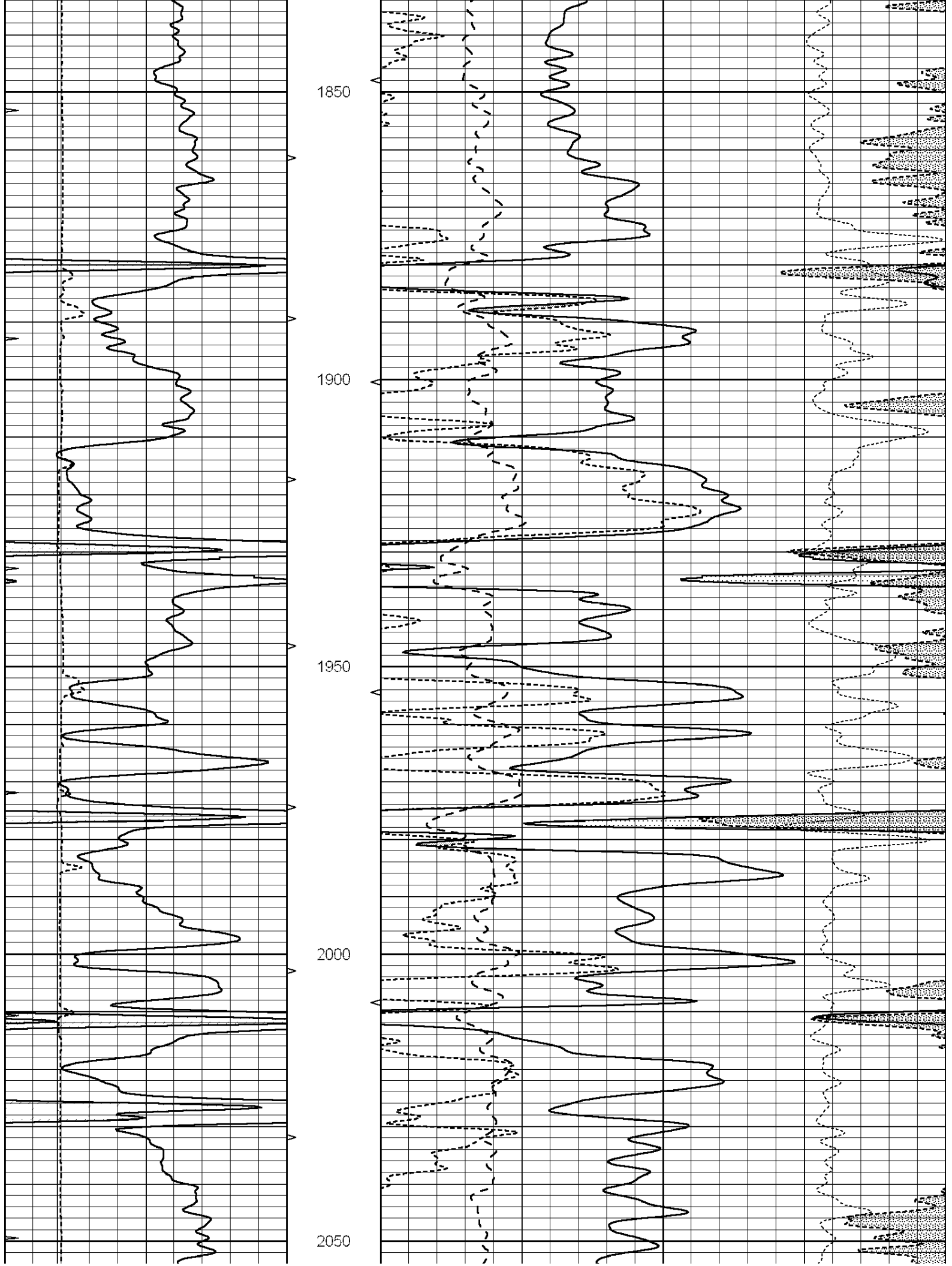
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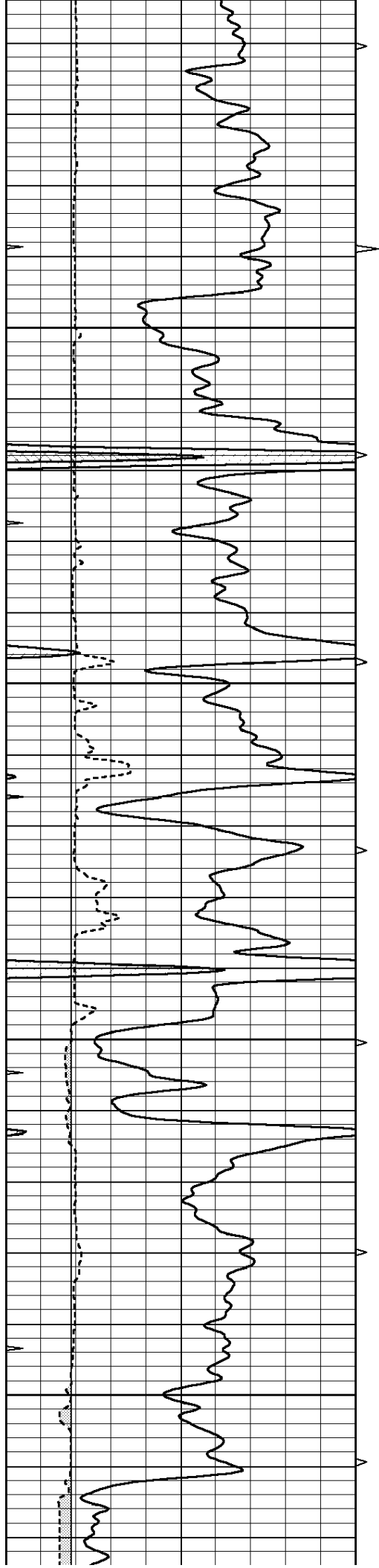
1700

1750

1800





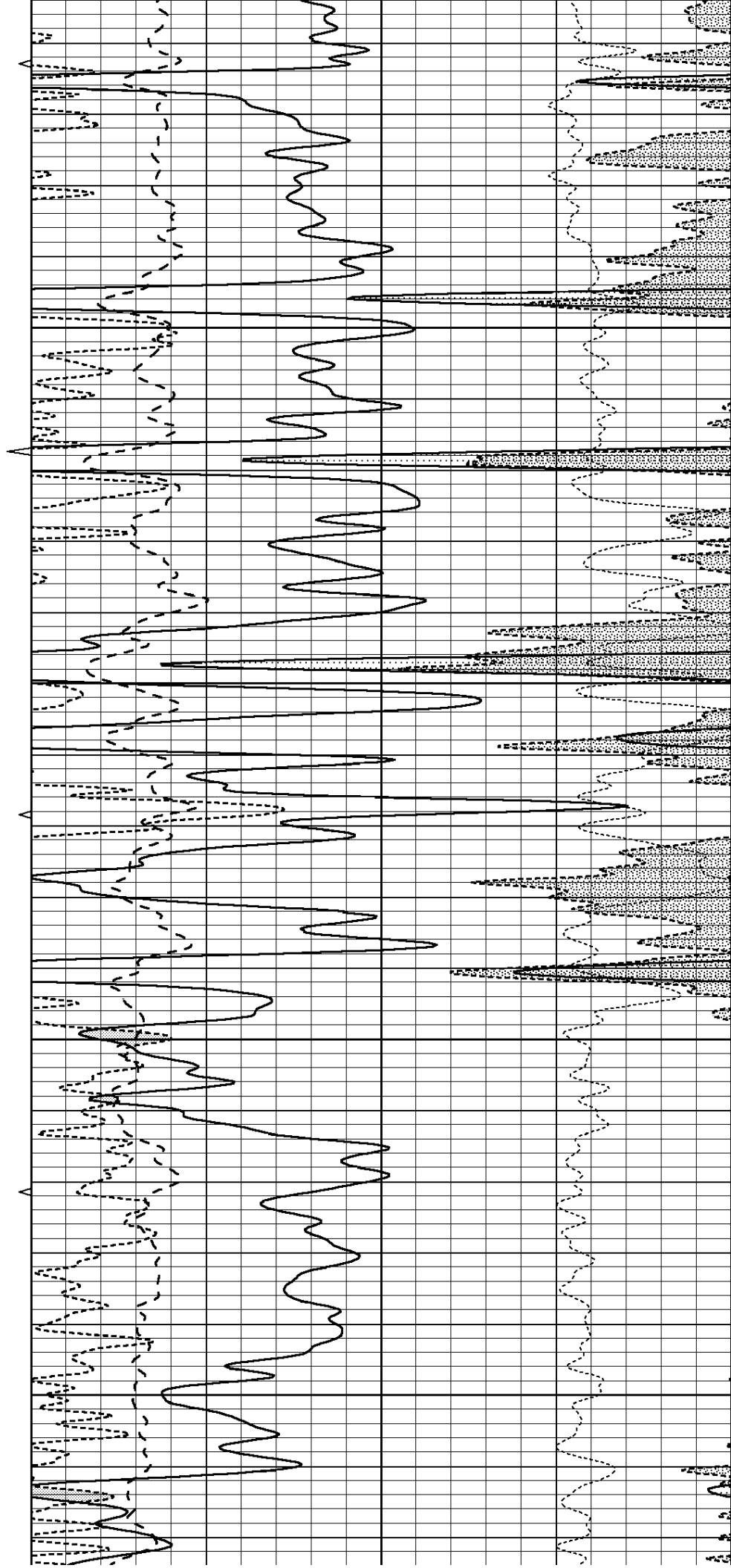


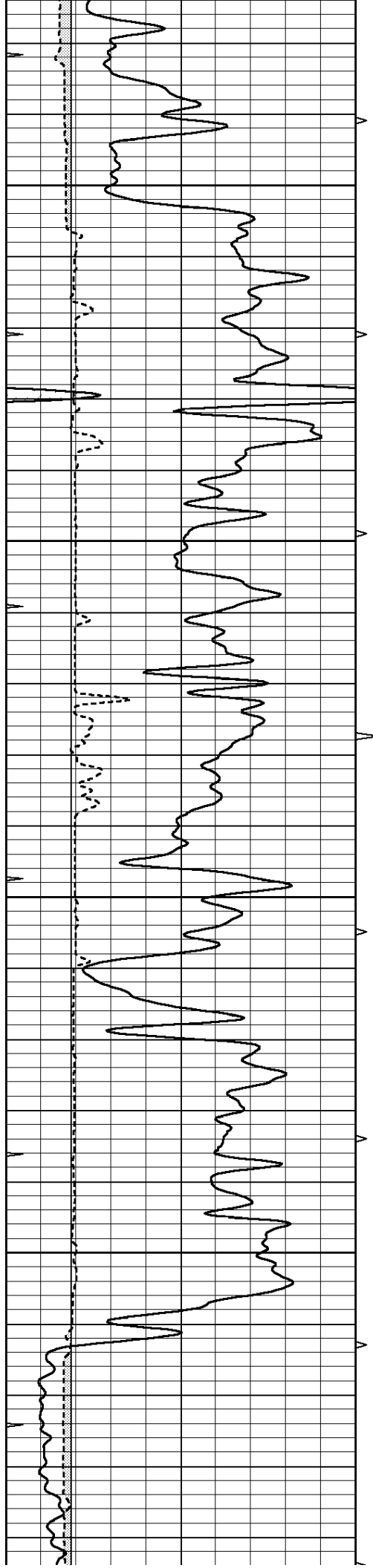
2100

2150

2200

2250



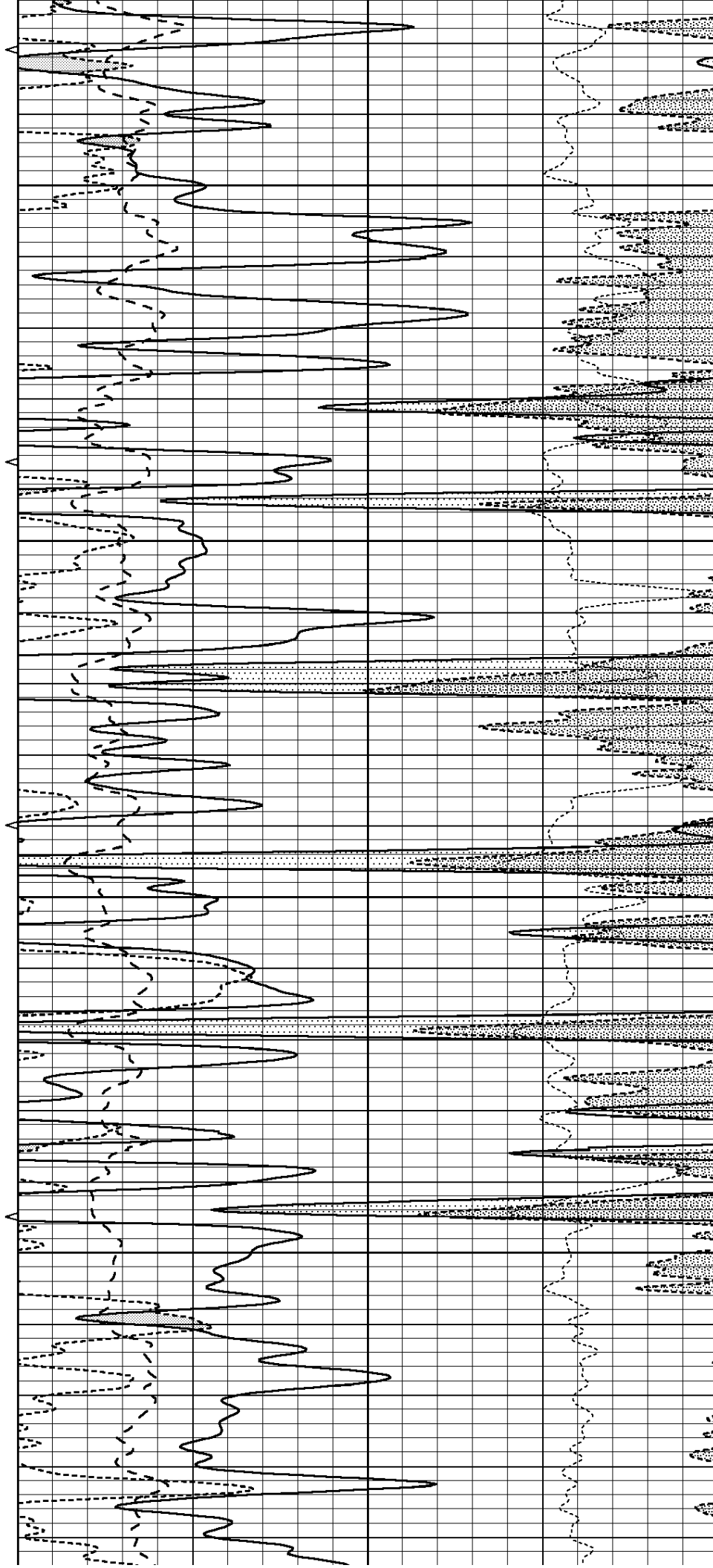


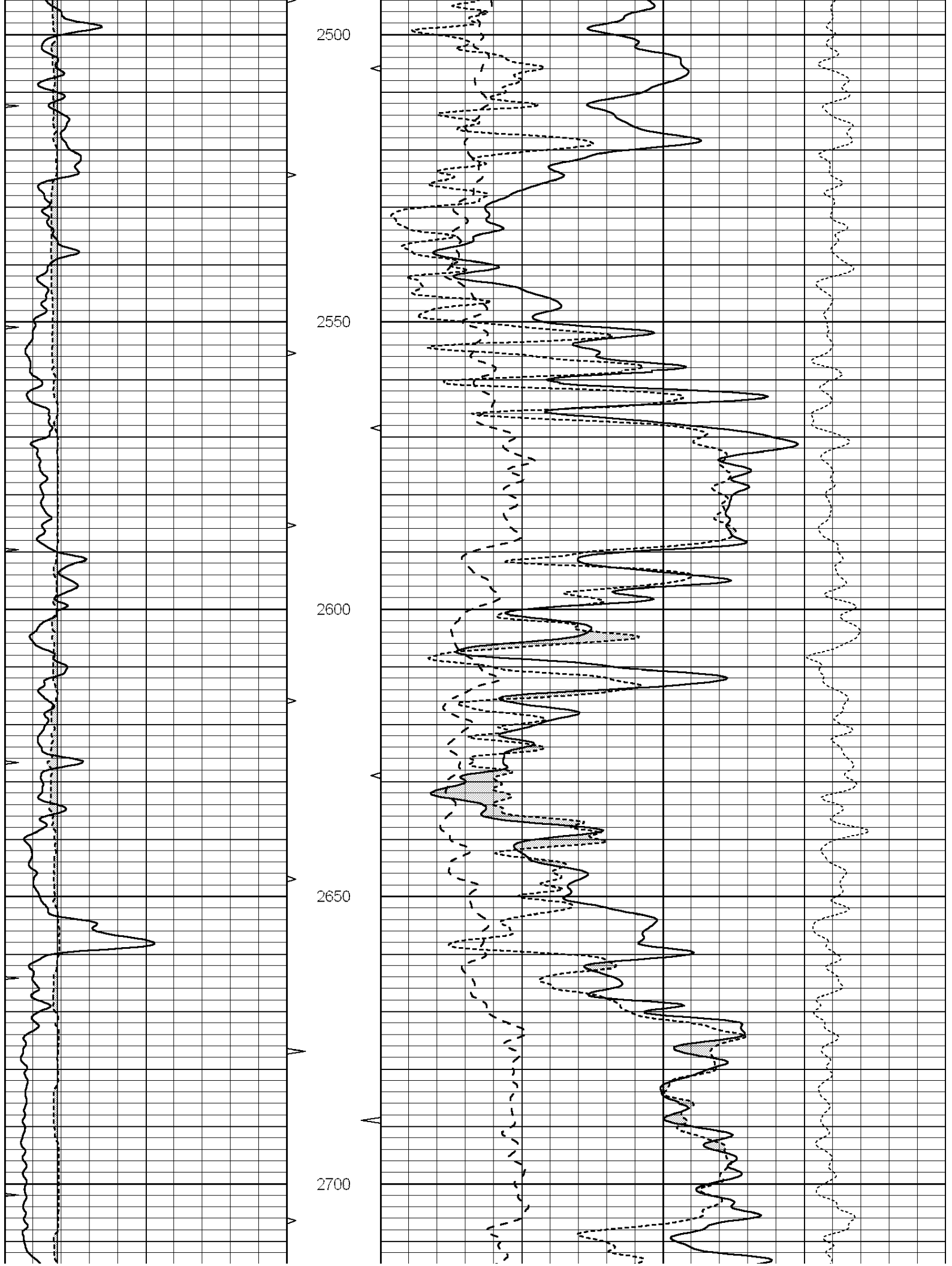
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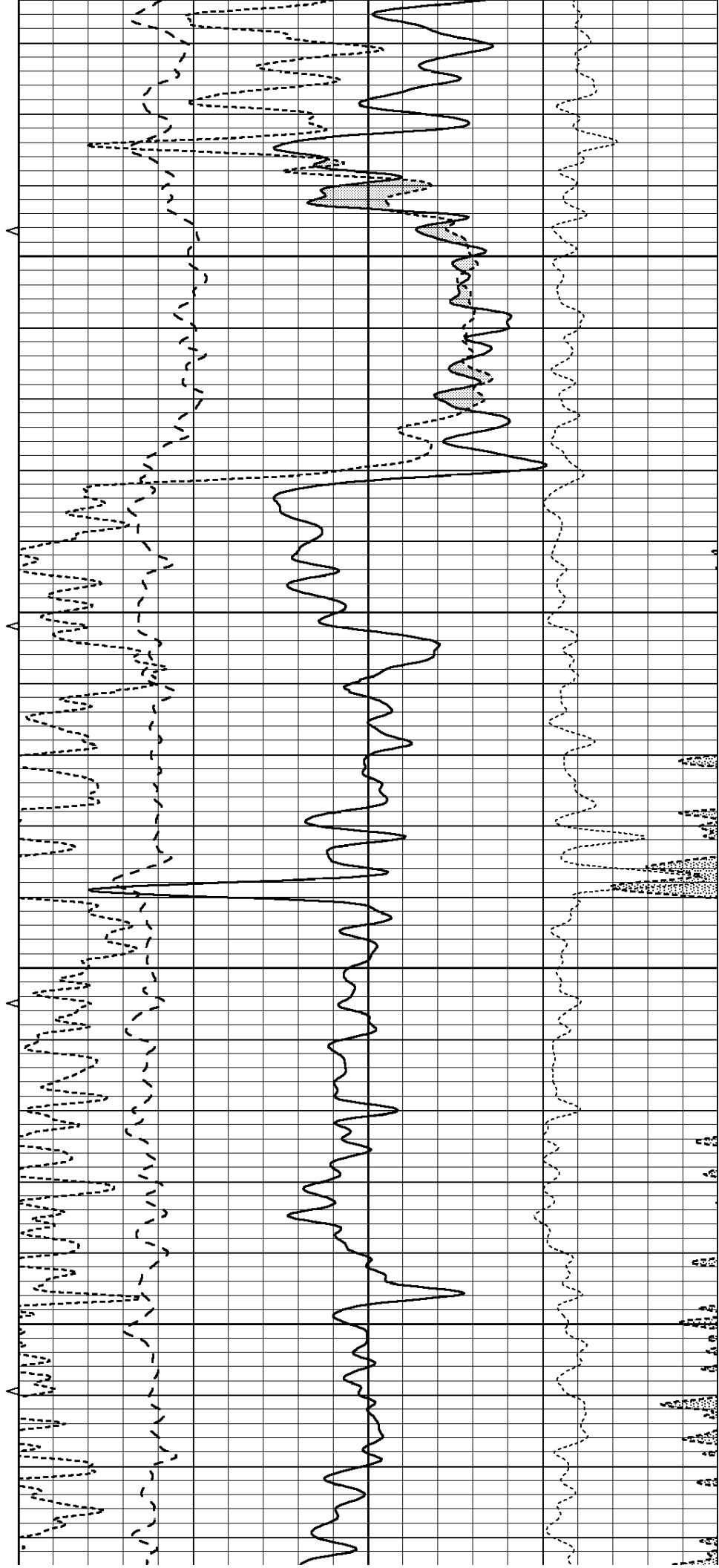
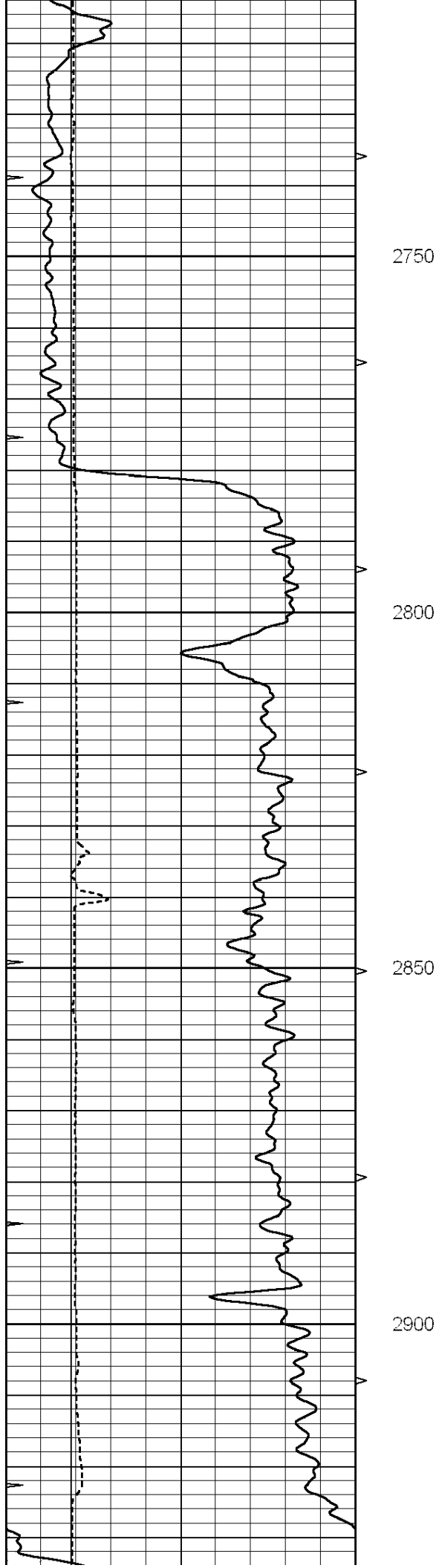
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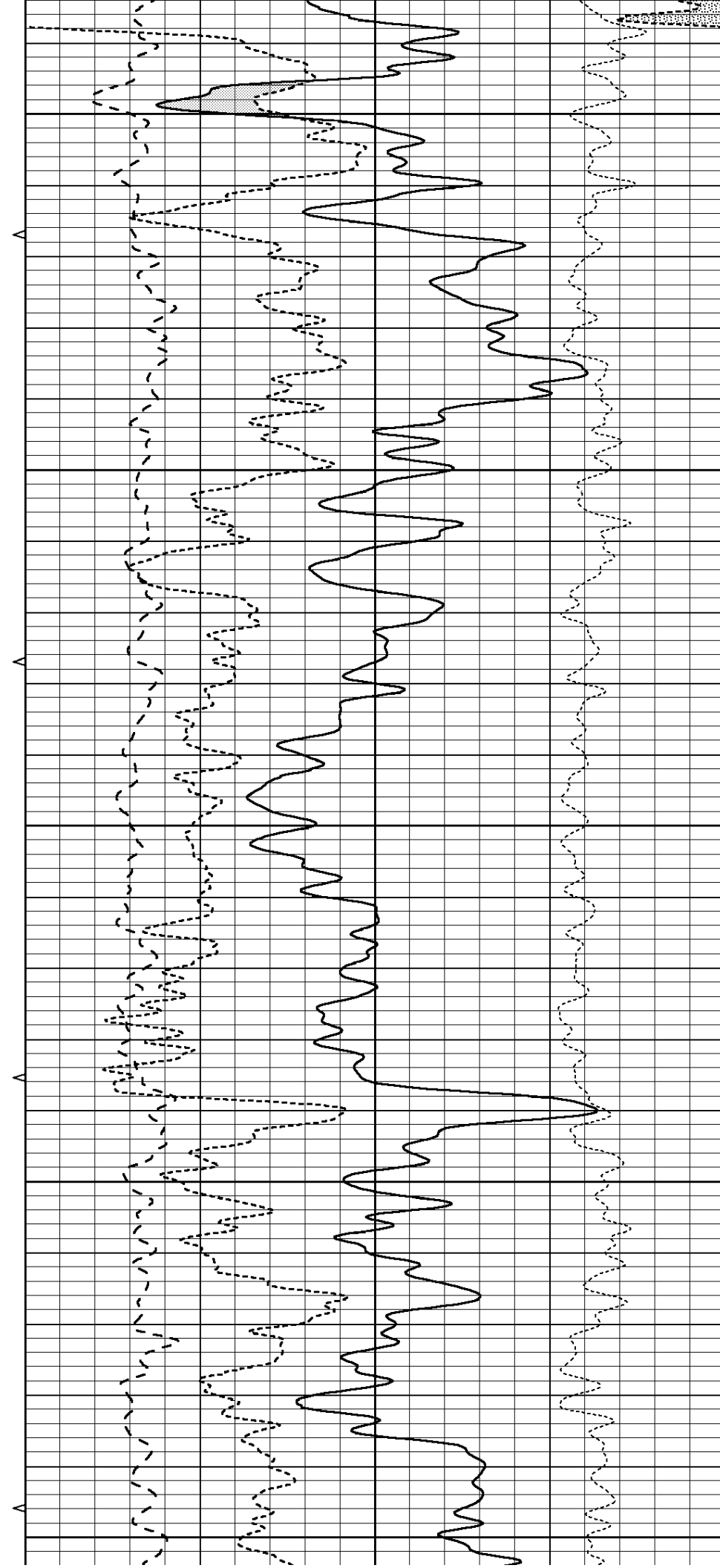
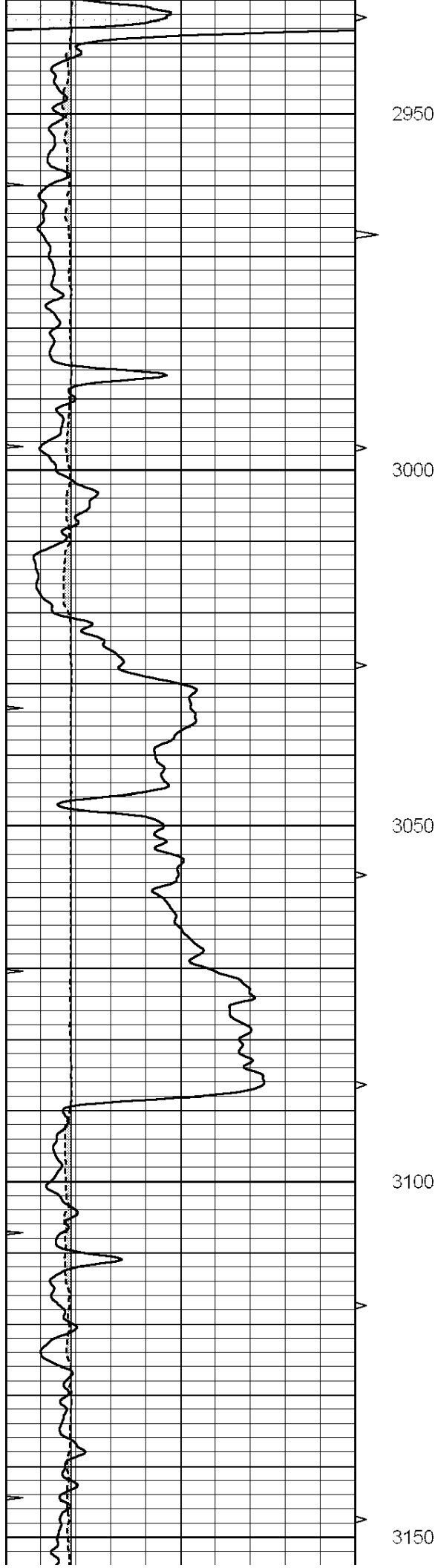
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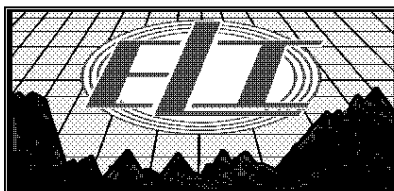
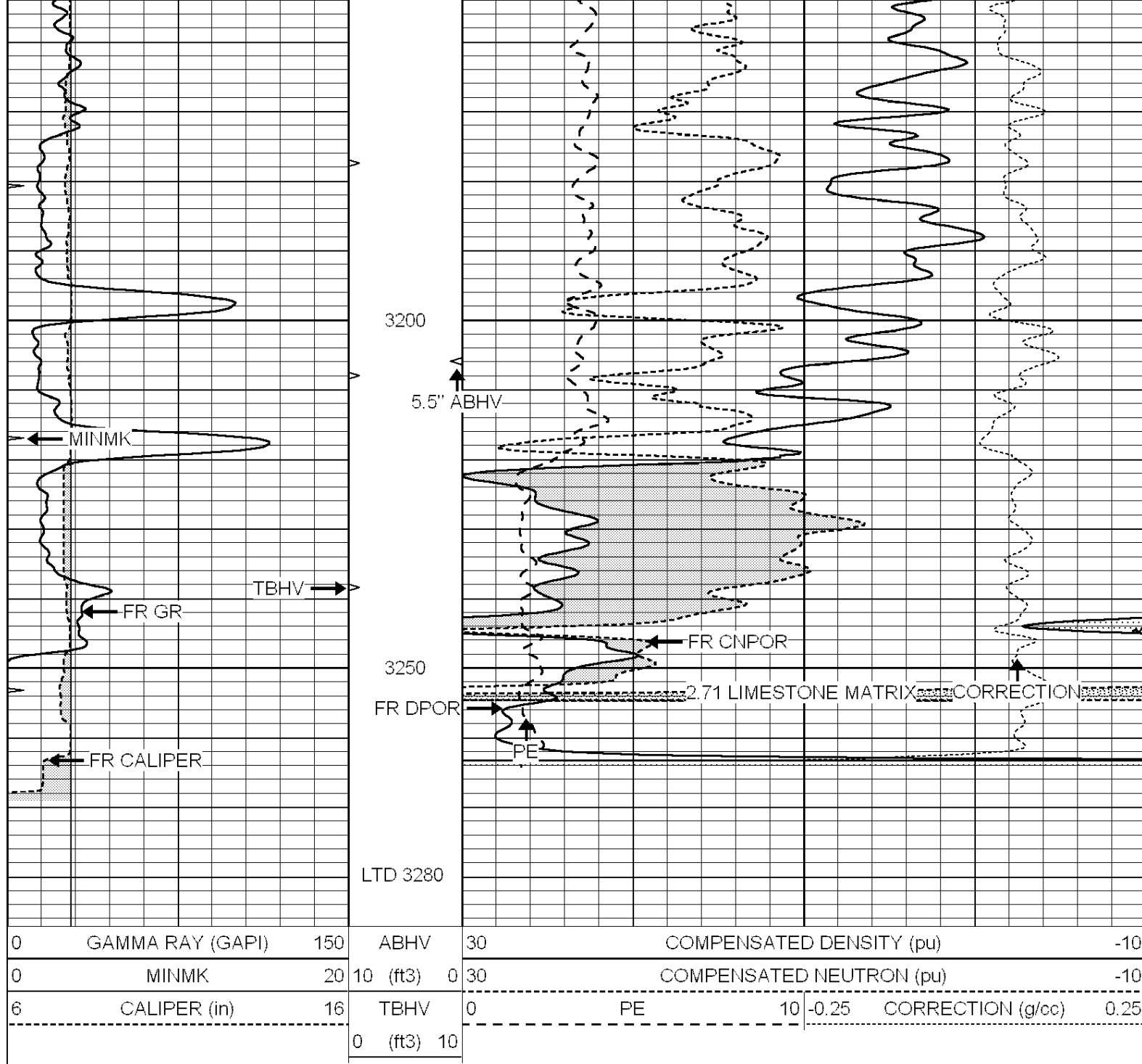
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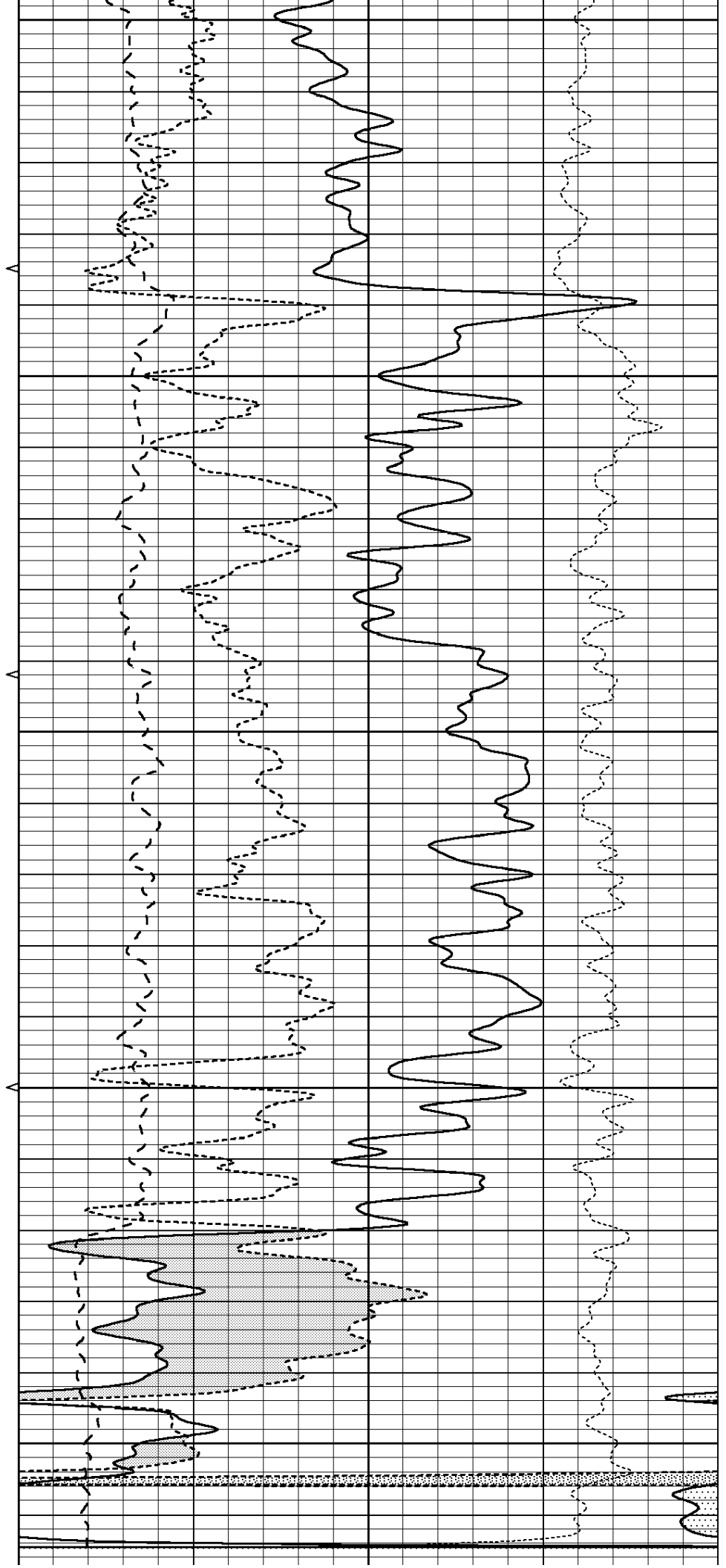
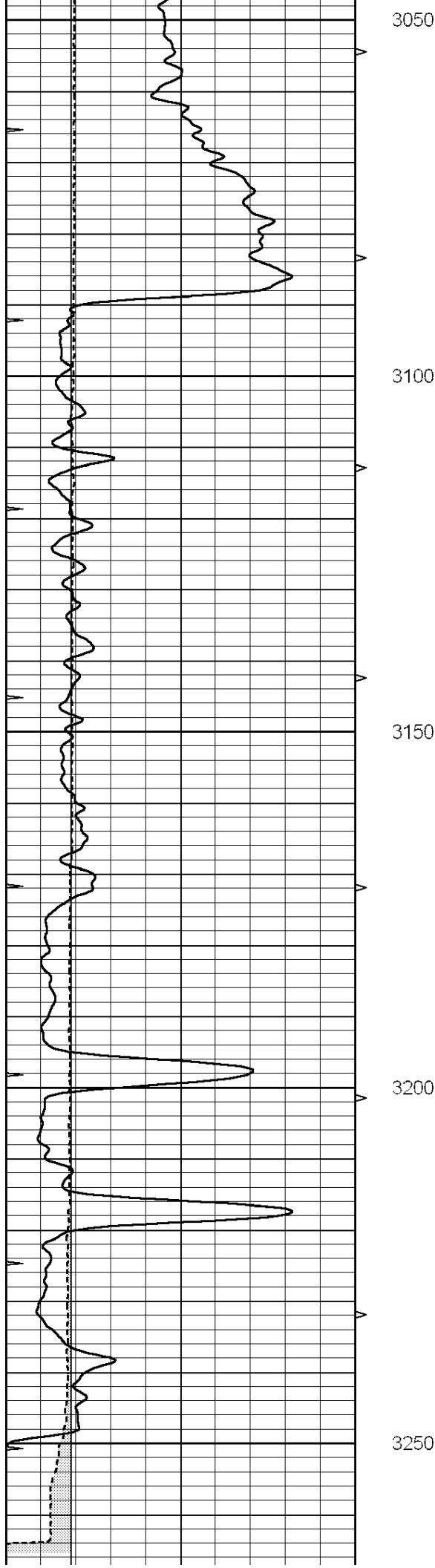




REPEAT SECTION

Database File: 3621pe.db
 Dataset Pathname: pass2.5
 Presentation Format: ldt_neu
 Dataset Creation: Wed May 15 11:49:53 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		



	Background	Magnesium	Aluminum	Sandstone
Wavelength	697.1	1000.5	694.5	1014.0

Window 1	837.1	10632.5	2945.1	12110.1	cps
Window 2	772.0	9117.4	2570.1	10197.3	cps
Window 3	631.7	4669.0	1481.9	5042.9	cps
Window 4	187.0	187.5	185.9	189.9	cps
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	

Compensated Neutron Calibration Report
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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