SUPERIOR WELL SERVICES

SUPERIOR
Hays,
Kansas

COMPENSATED DENSITY / NEUTRON PE LOG

Company CAPTIVA ENERGY, LLC.
Well CARVER TRUST #1-15
Field IUKA - CARMI
County PRATT State KANSAS

Location: API # : 15-151-22319-0000
1493' FSL & 1783' FEL
SEC 15 TWP 27S RGE 13W

Other Services
DIL/MEL
SONIC

Permanent Datum GROUND LEVEL Elevation 1946
Log Measured From KELLY BUSHING 13' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1959
D.F. 1957
G.L. 1946

Company CAPTIVA ENERGY, LLC.
Well CARVER TRUST #1-15
Field IUKA - CARMI
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State KANSAS

Date	12/18/08		
Run Number	ONE		
Depth Driller	4600		
Depth Logger	4600		
Bottom Logged Interval	4576		
Top Log Interval	1900		
Casing Driller	13 3/8"@267'		
Casing Logger	267		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 10,000PPM	
Density / Viscosity	9.0/75		
pH / Fluid Loss	11.0/6.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.600@59F		
Rmf @ Meas. Temp	.450@59F		
Rmc @ Meas. Temp	.720@59F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.293@121F		
Time Circulation Stopped	6 HOURS		
Time Logger on Bottom	8:15 A.M.		
Maximum Recorded Temperature	121F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	BRUCE ARD		

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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 SUPERIOR WELL SERVICE HAYS, KANSAS (785)628-6395

DIRECTIONS

PRATT, KS. 1 MILE S. OF AIRPORT ON HWY 281 TO 30TH AVE., 1E., 1/2N., W. INTO

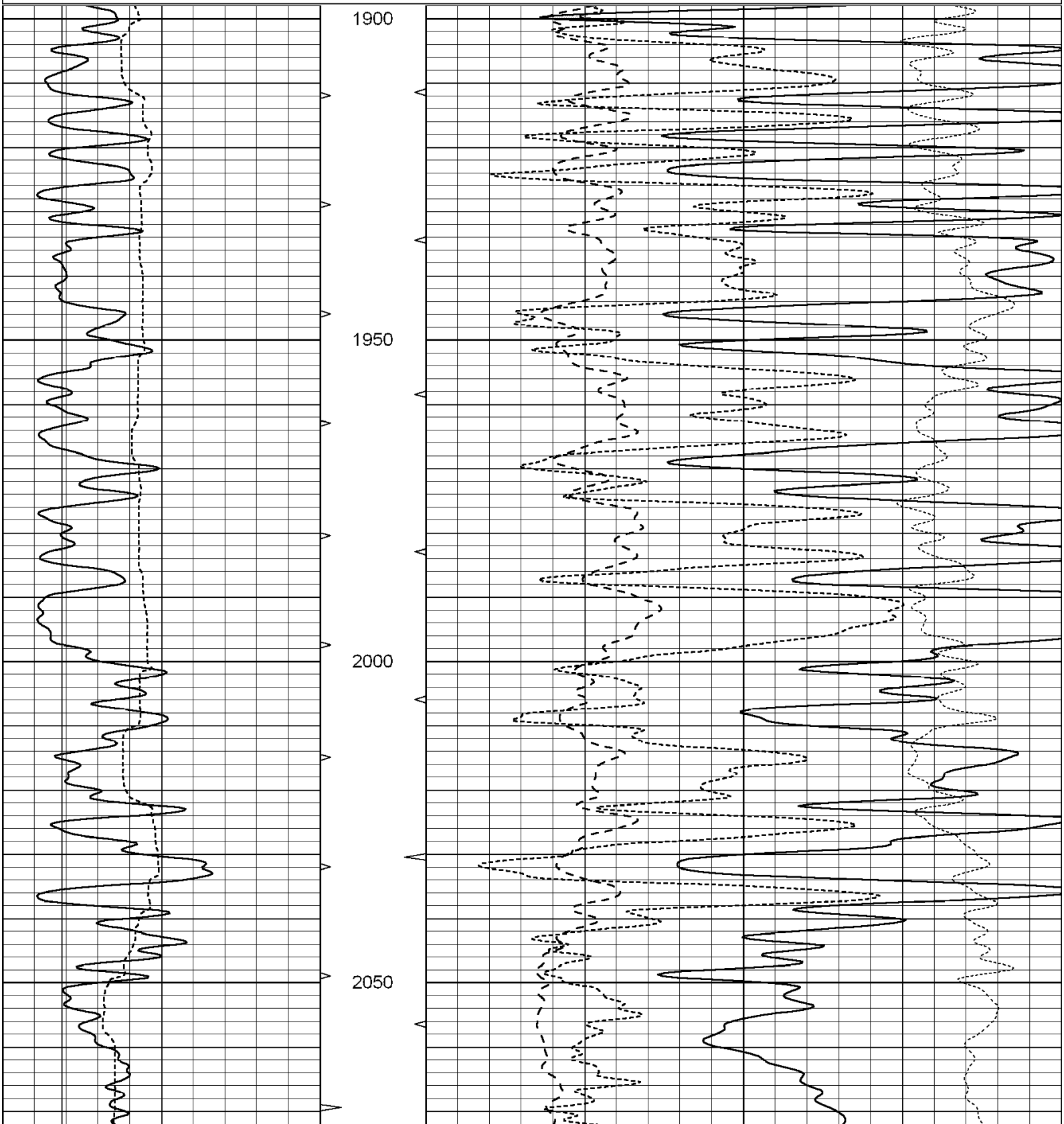
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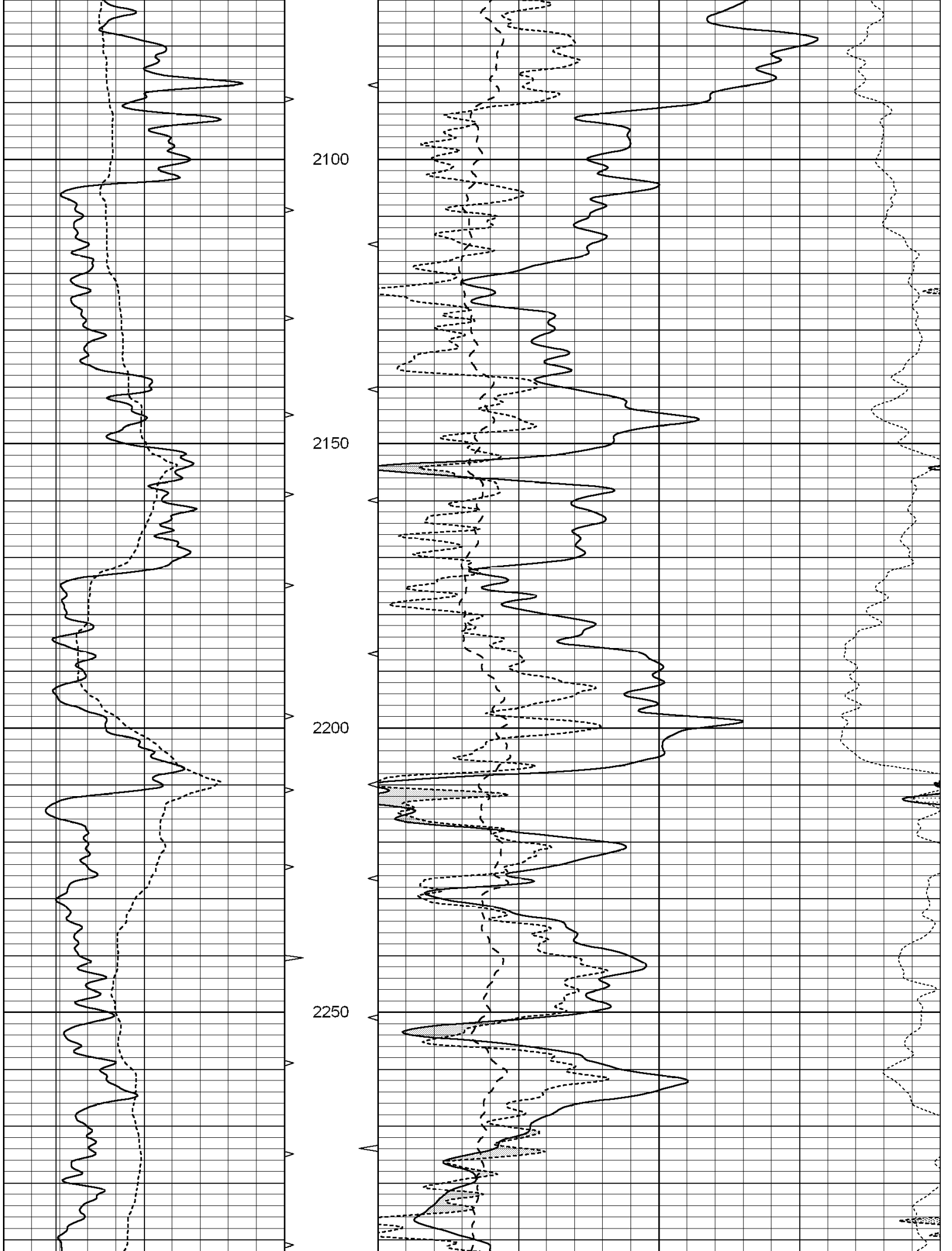
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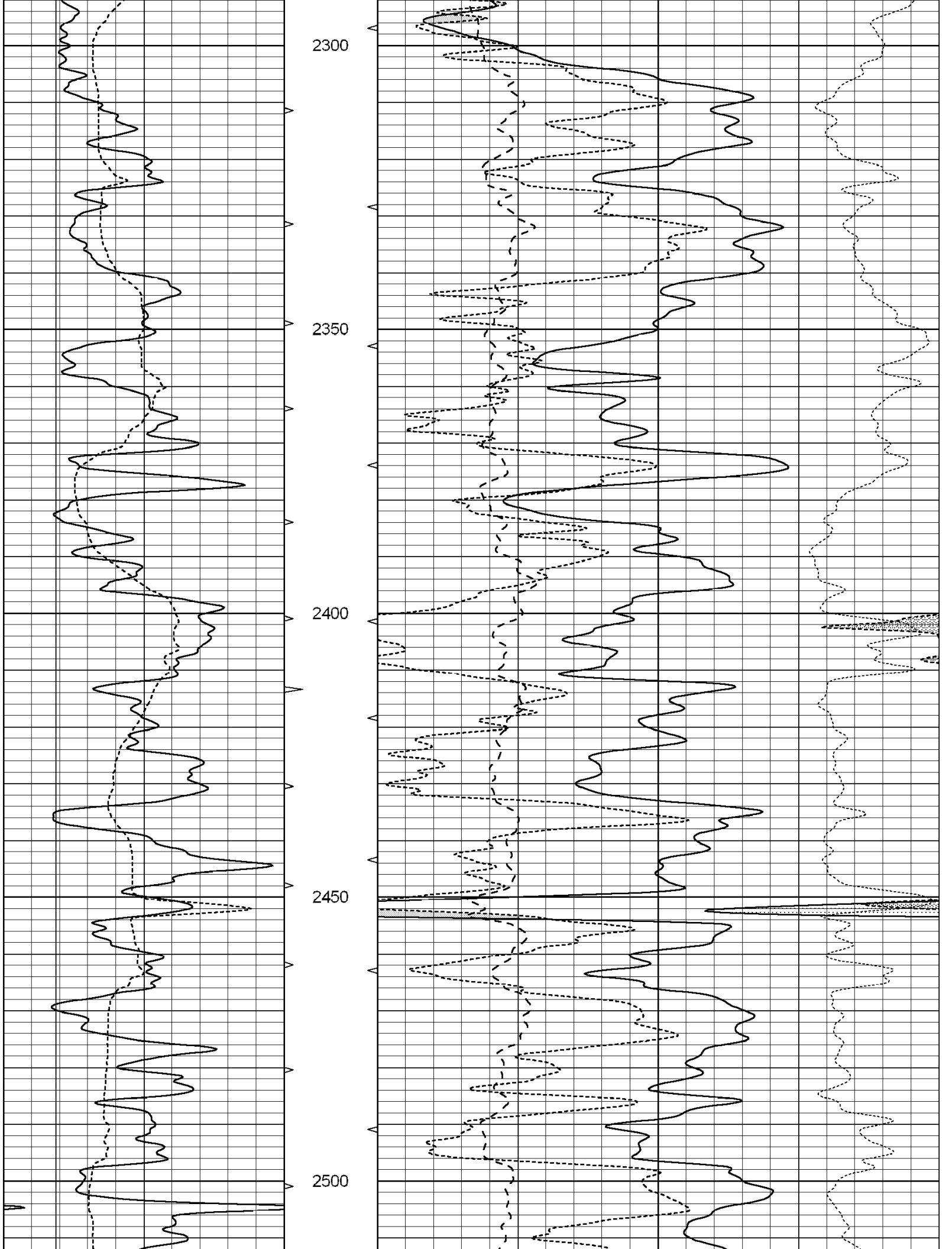
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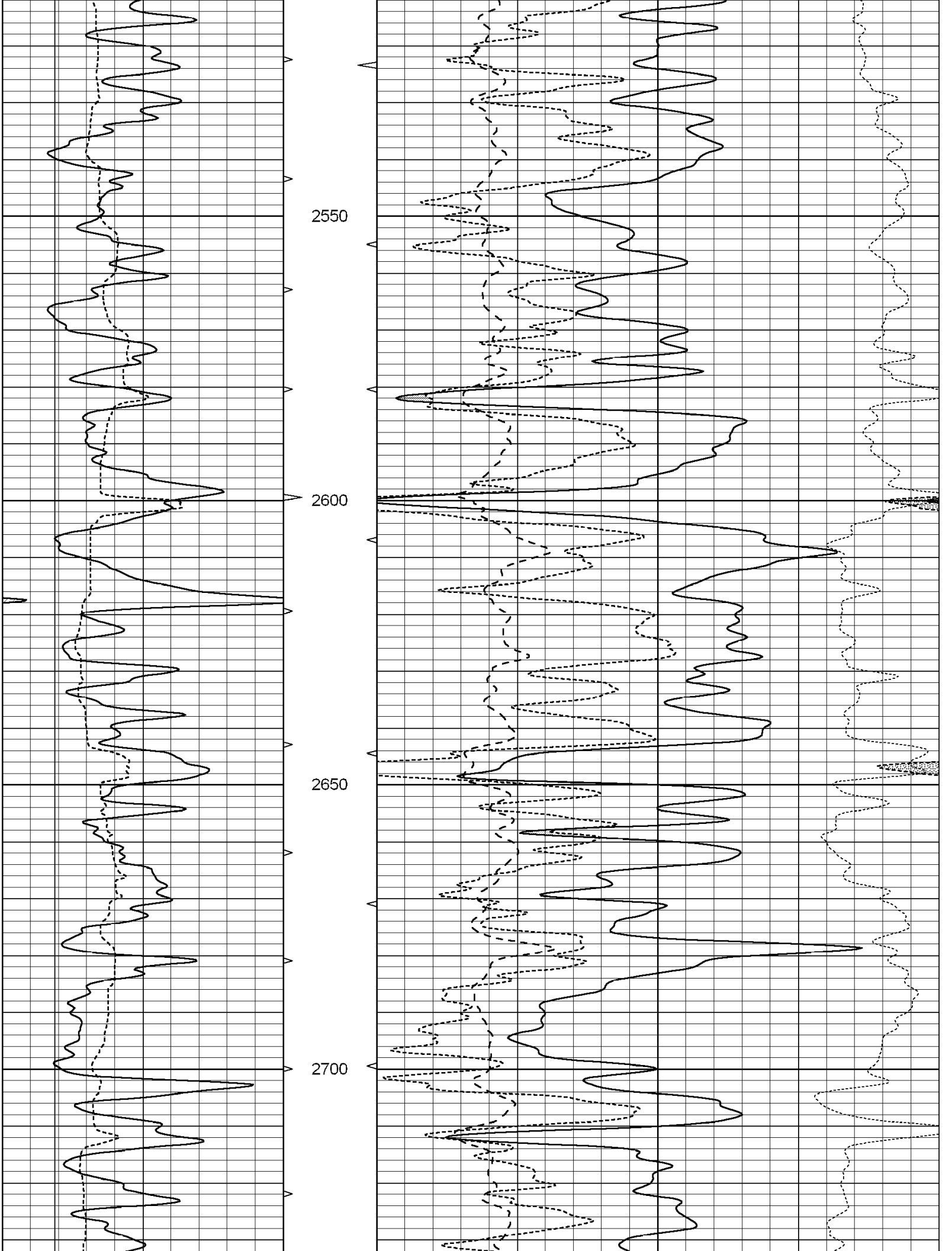
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Dataset Pathname: pass3.8
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Charted by: Depth in Feet scaled 1:240

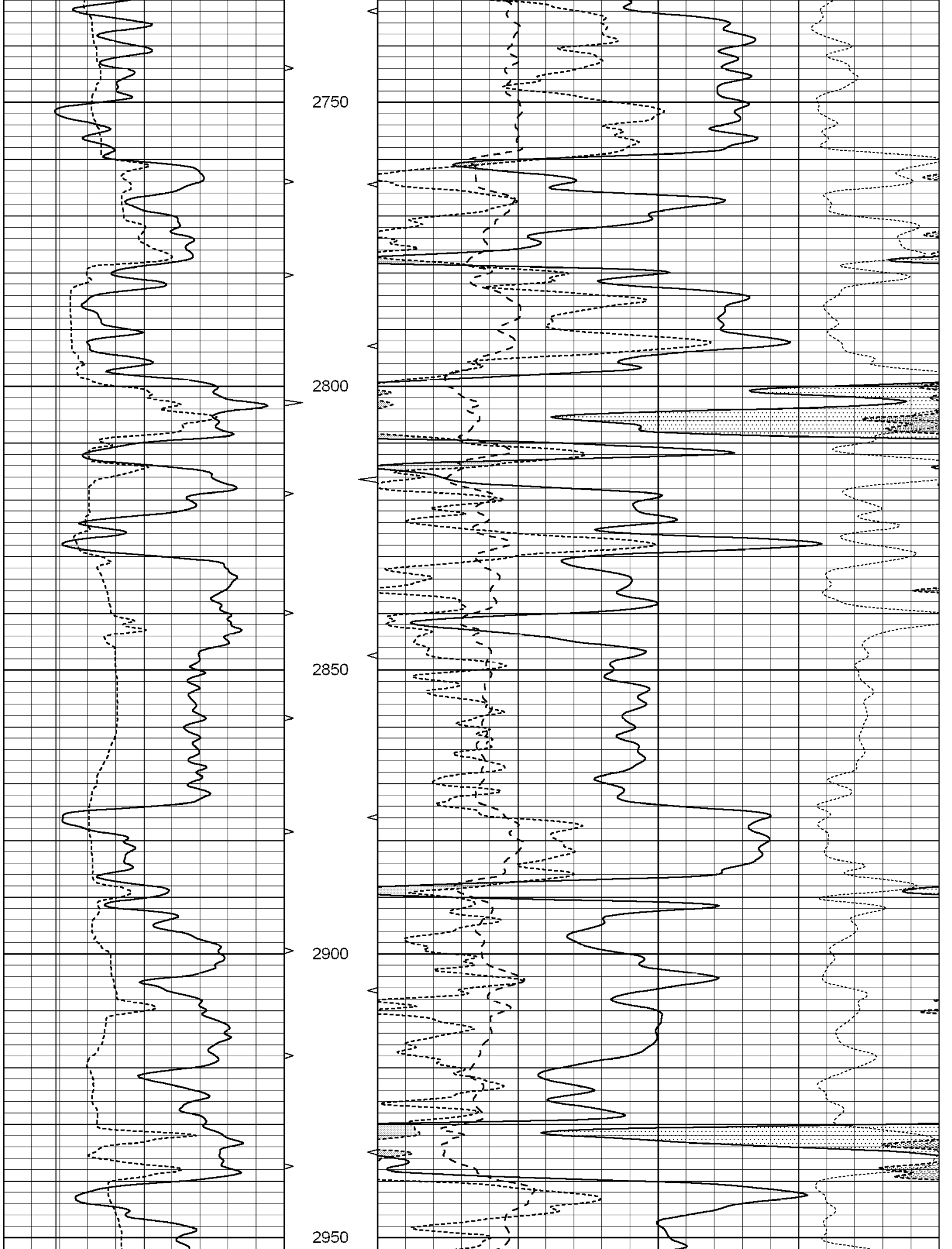
0 GAMMA RAY (GAPI) 150	ABHV	30 COMPENSATED DENSITY (pu) -10
6 CALIPER (in) 16	10 (ft3) 0	30 COMPENSATED NEUTRON (pu) -10
	TBHV	0 PE 10 -0.25 CORRECTION (g/cc) 0.25
	0 (ft3) 10	

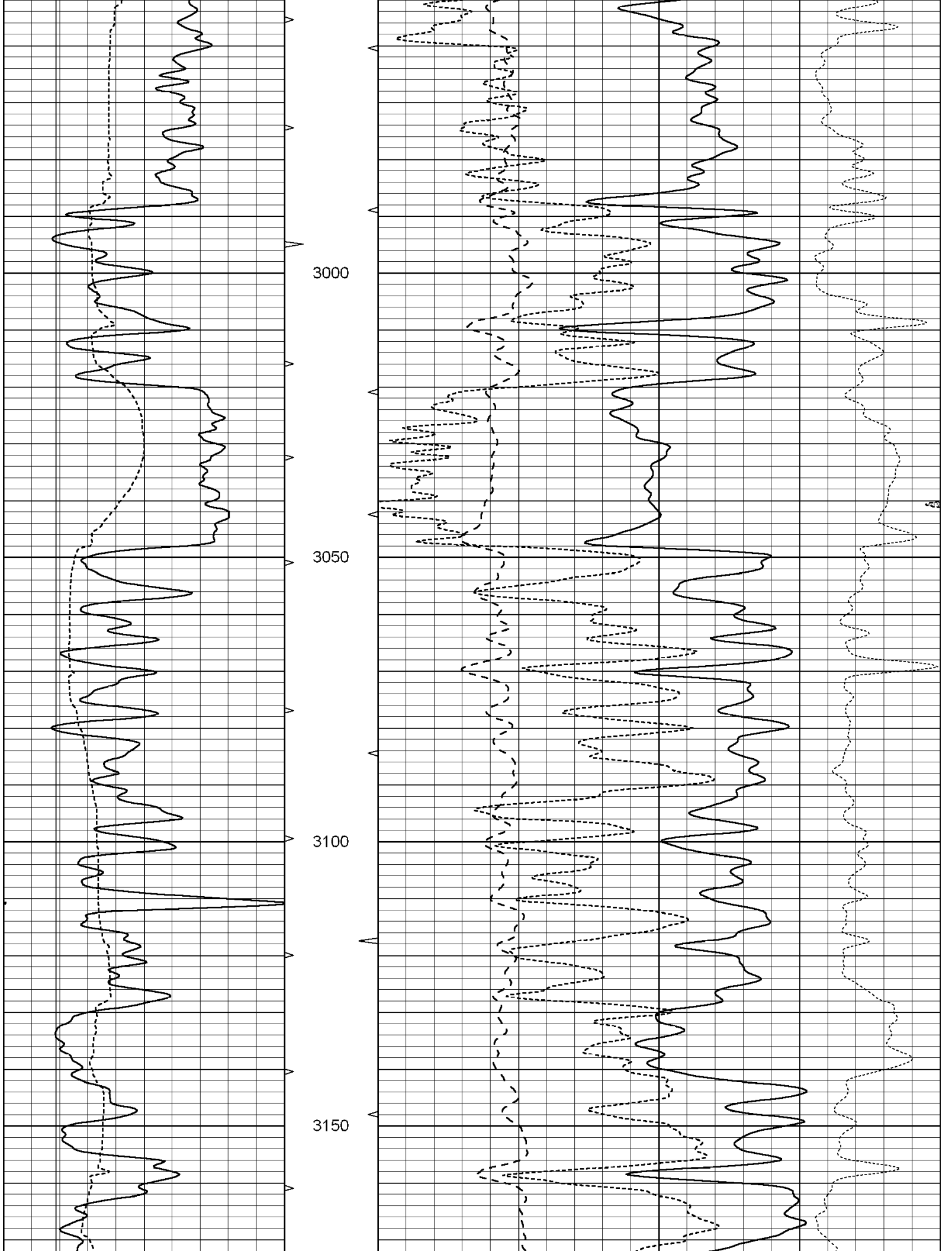


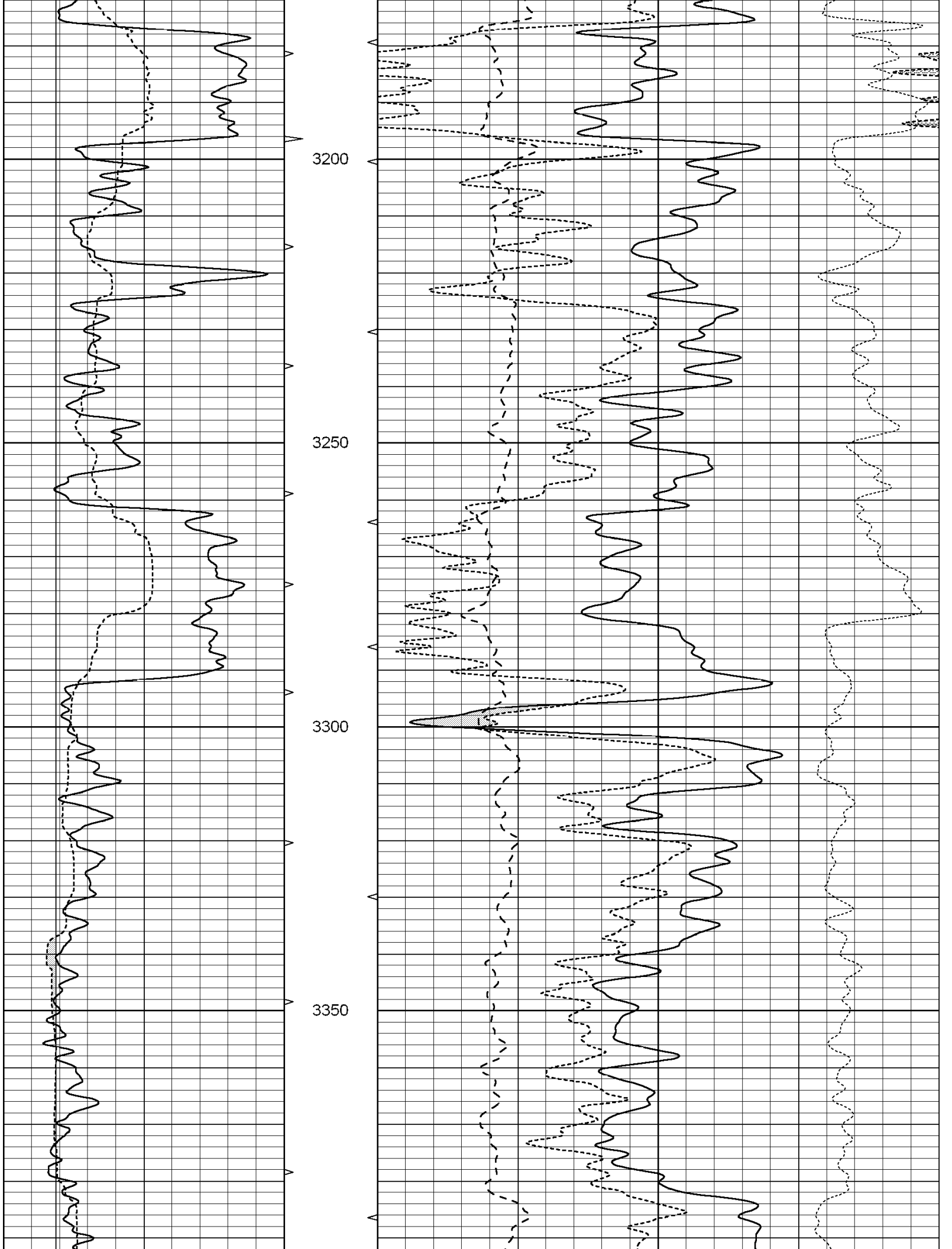

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2200
2250

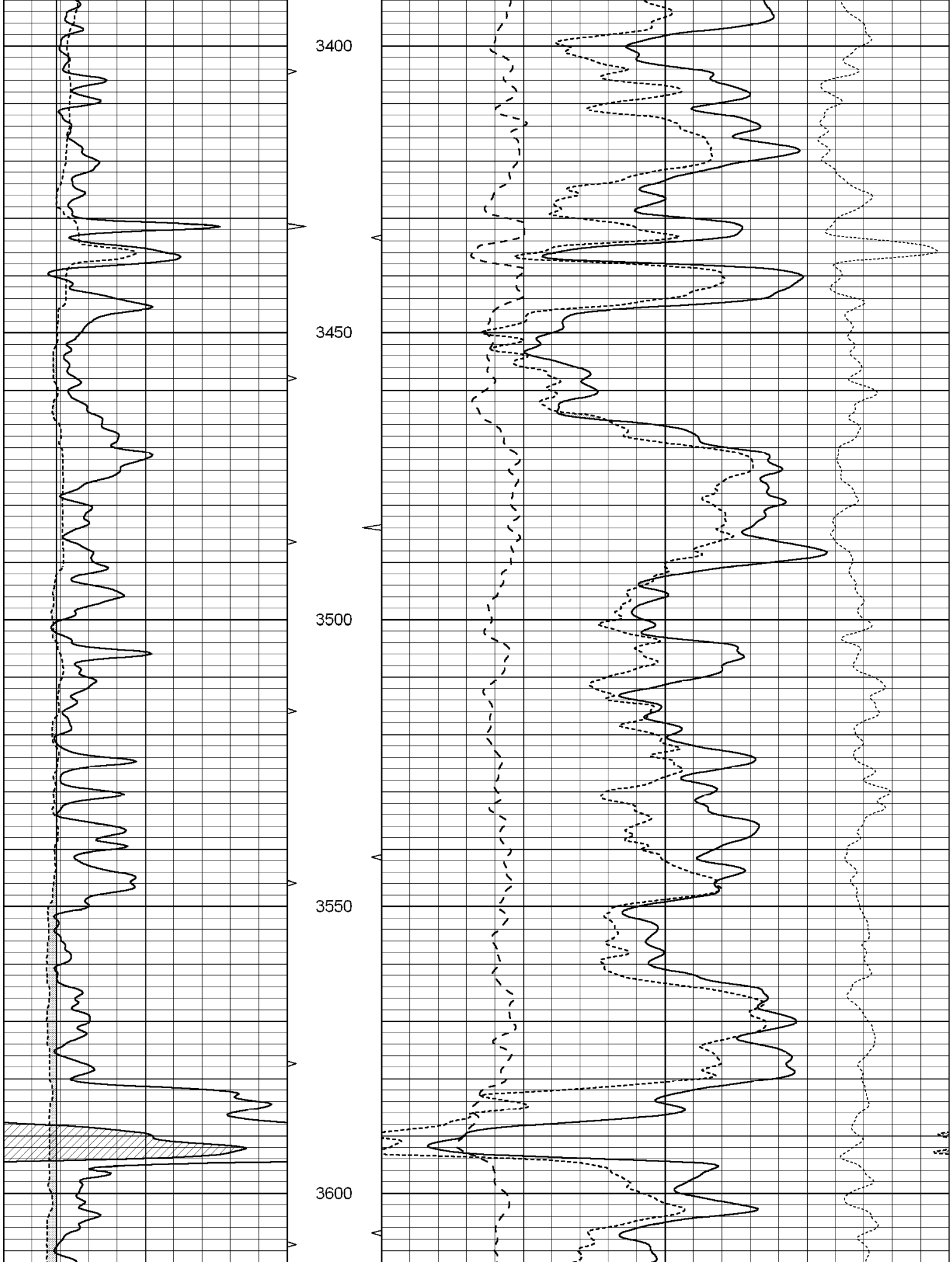

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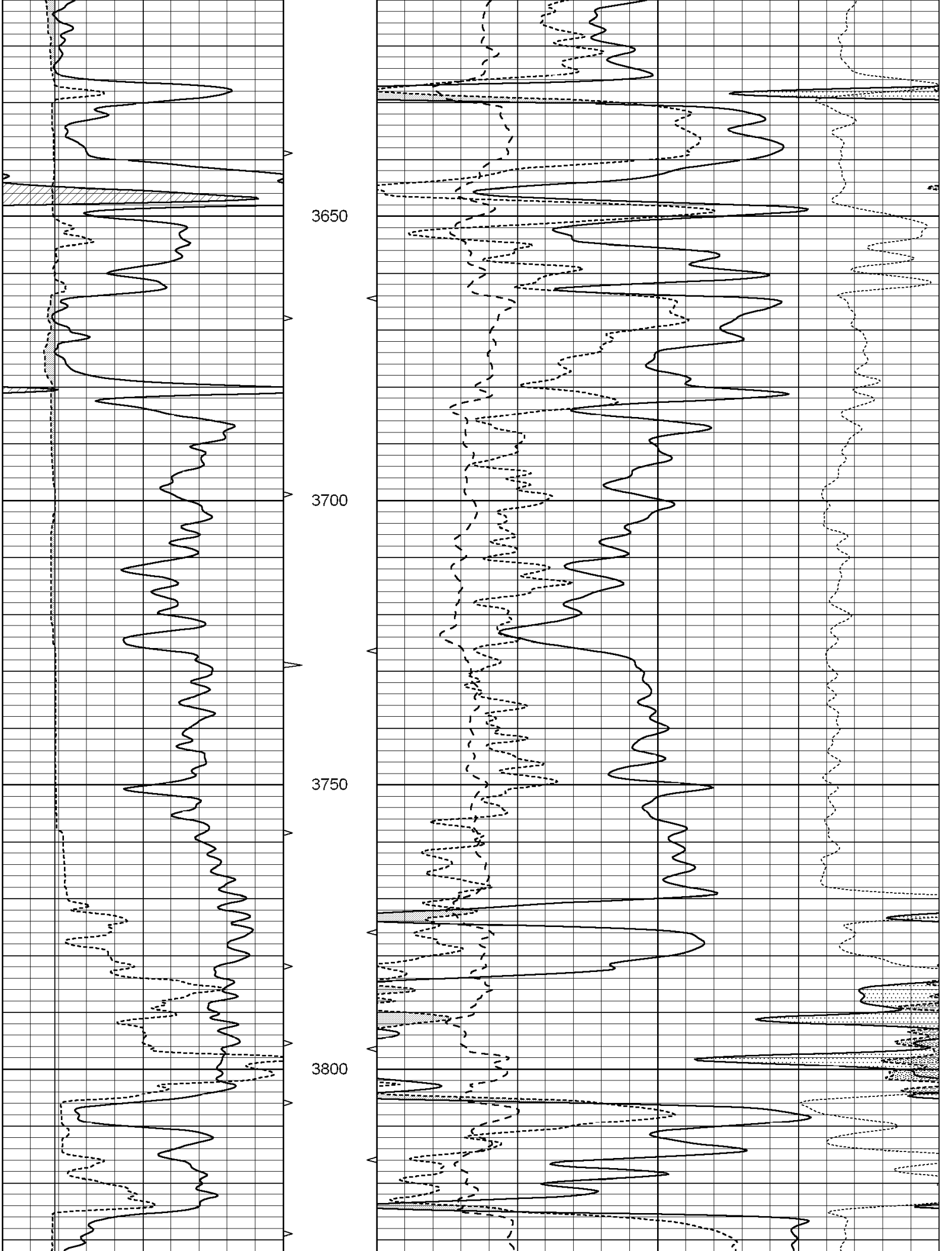

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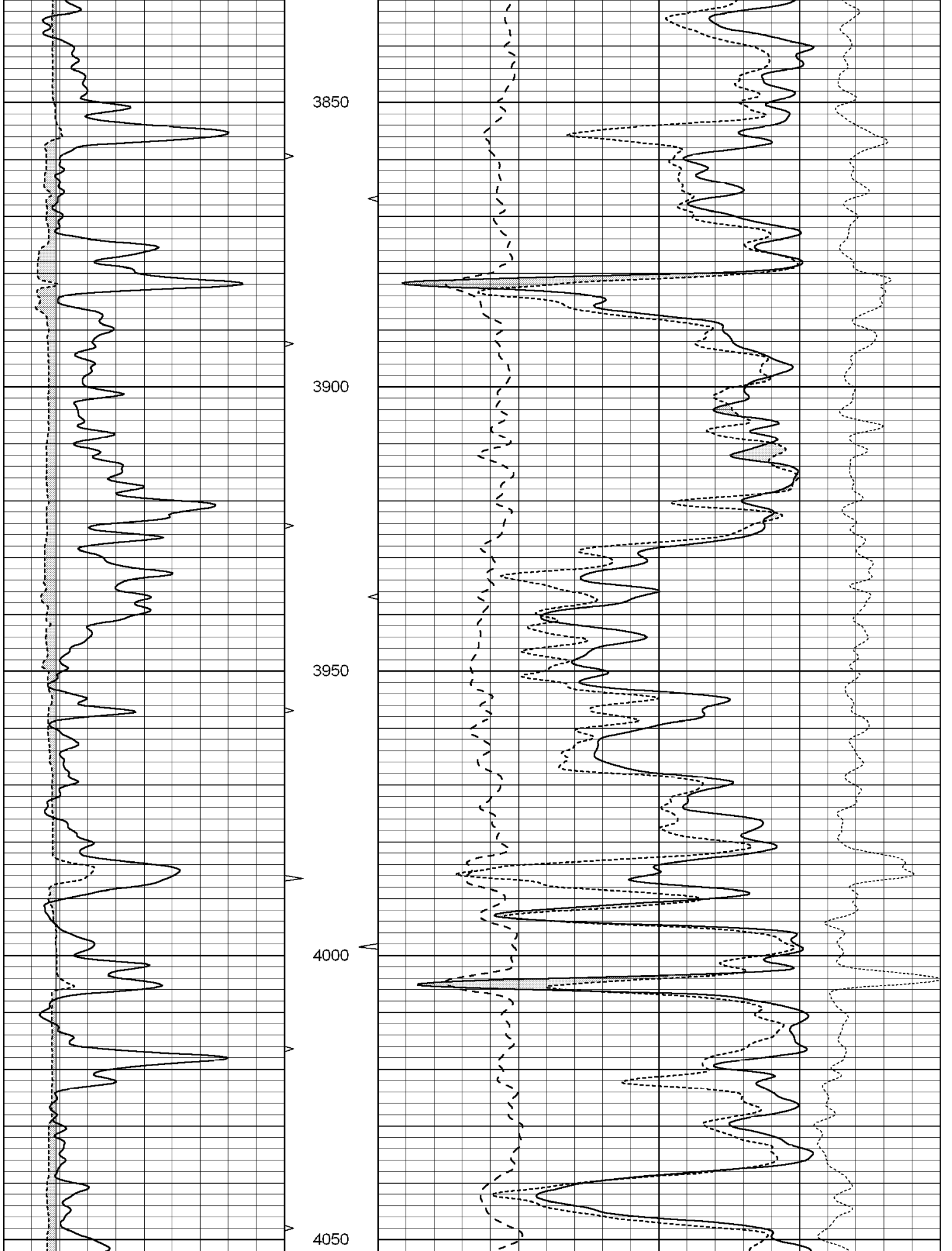

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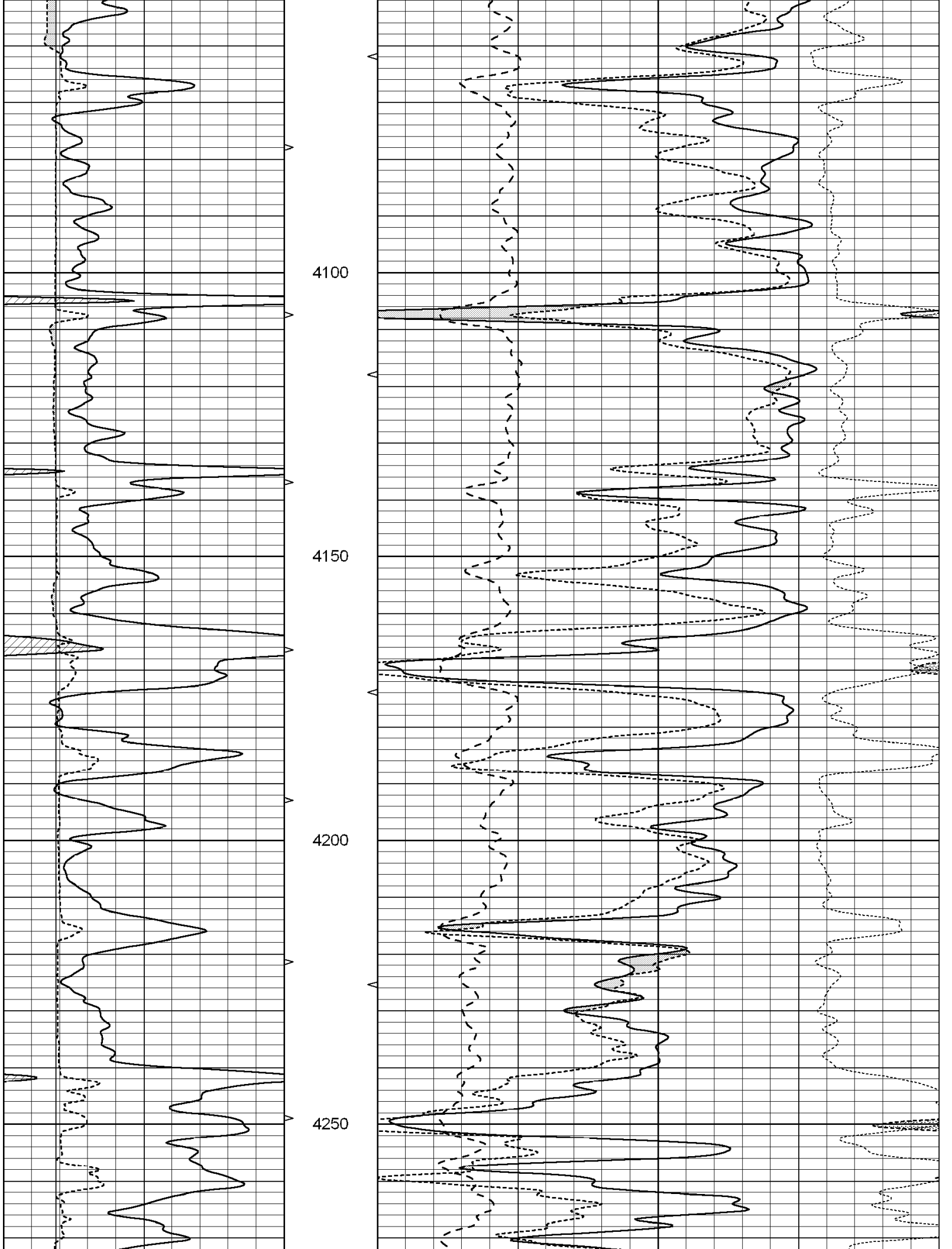

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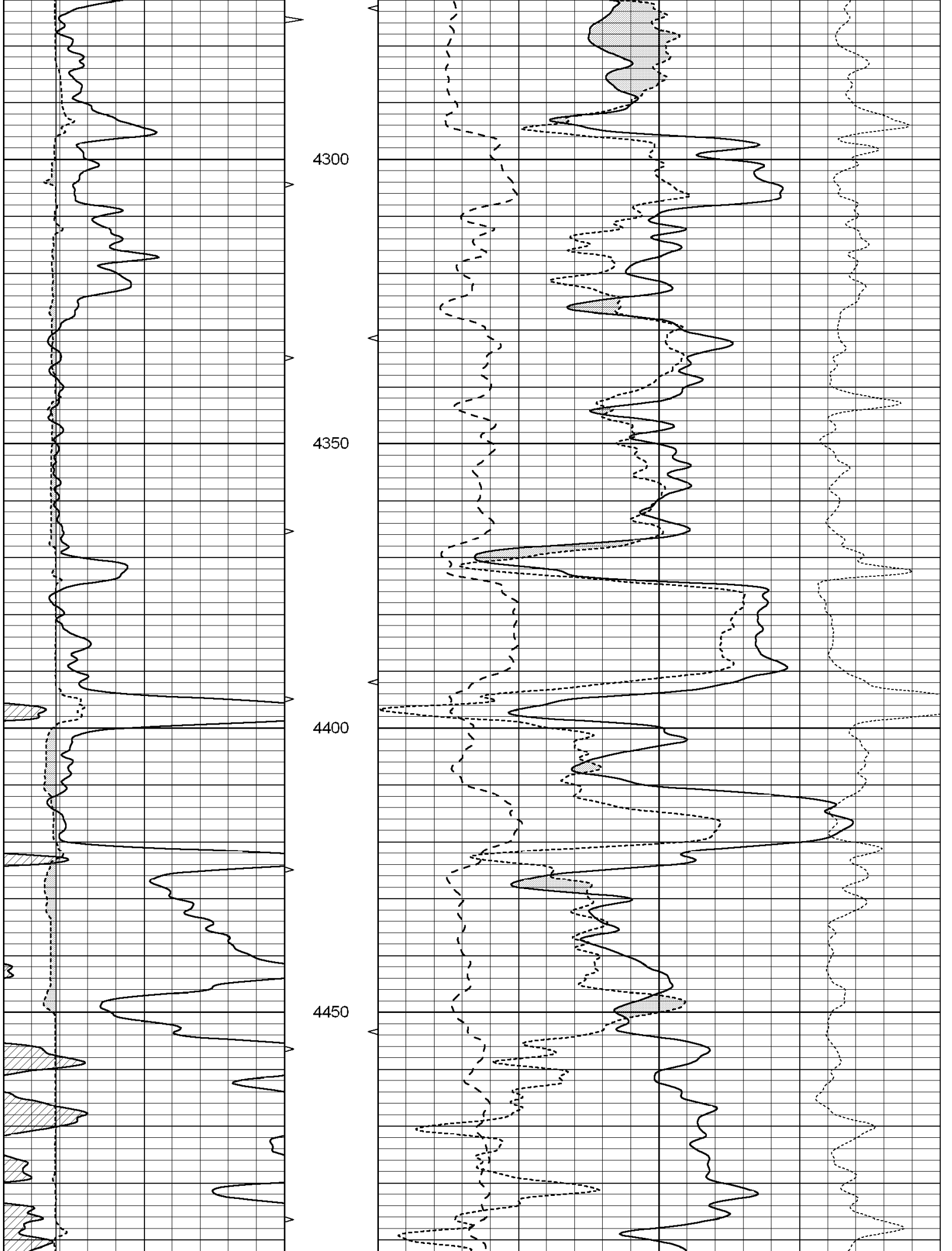

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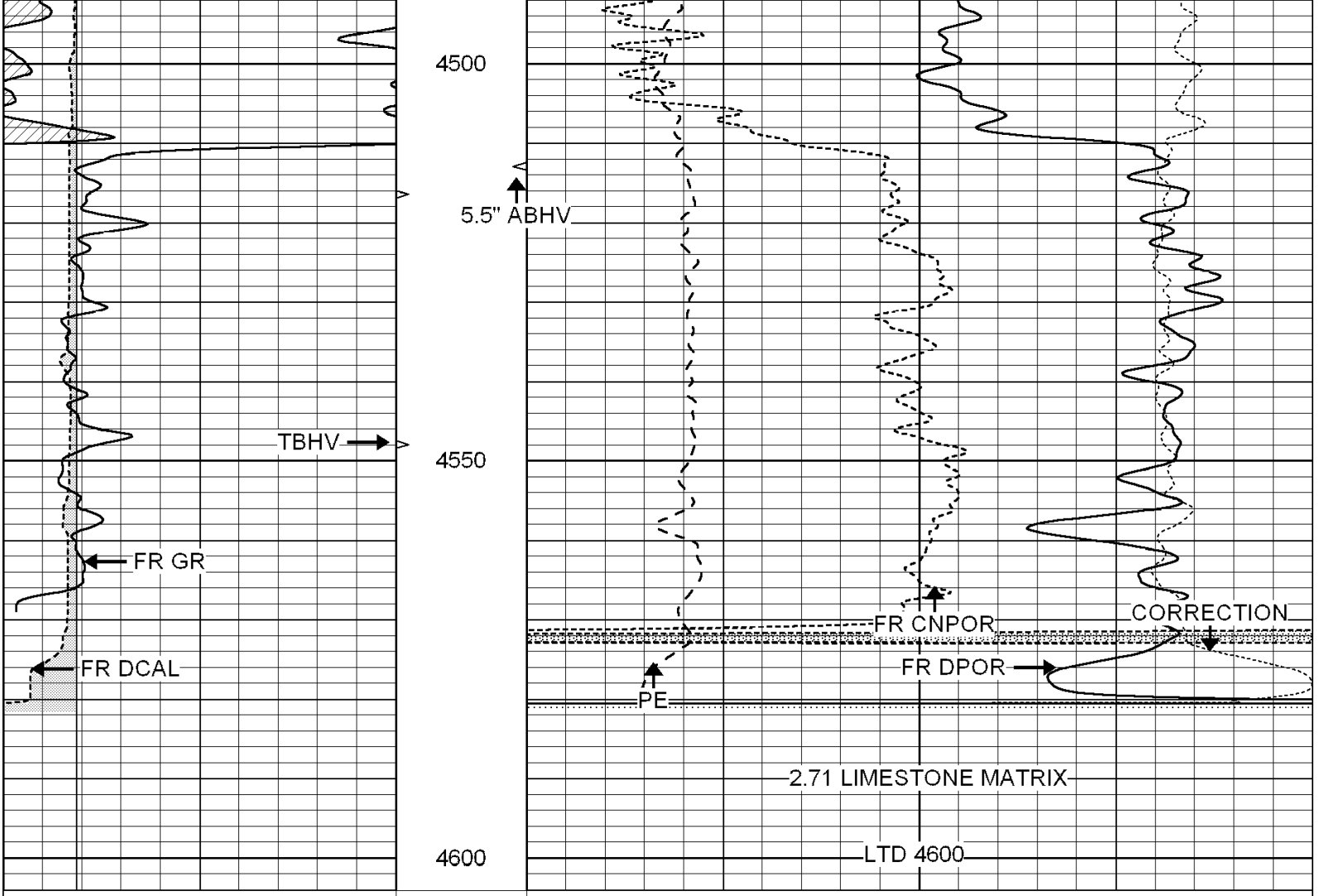

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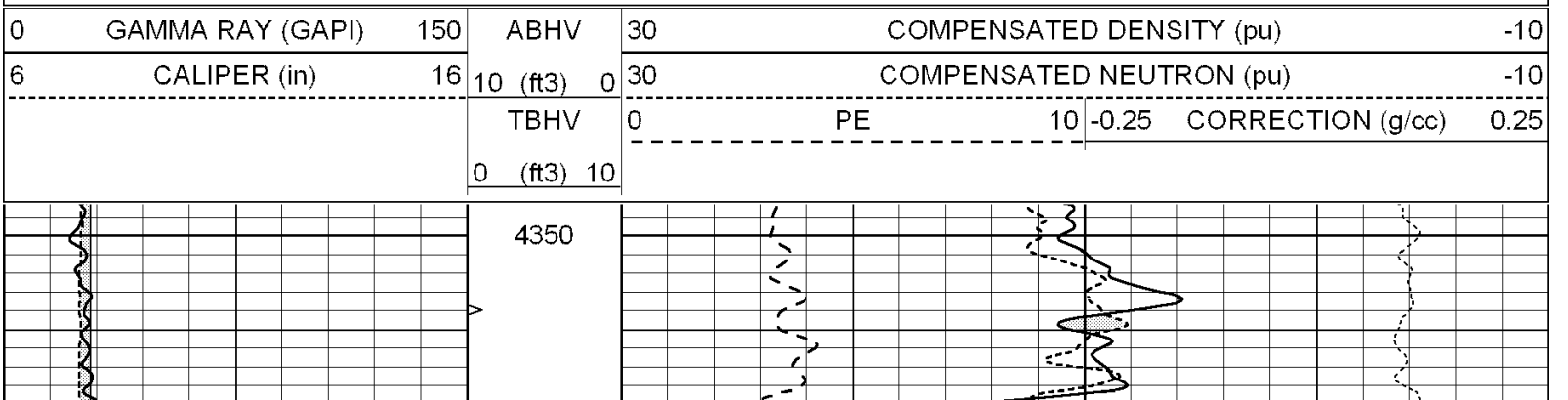


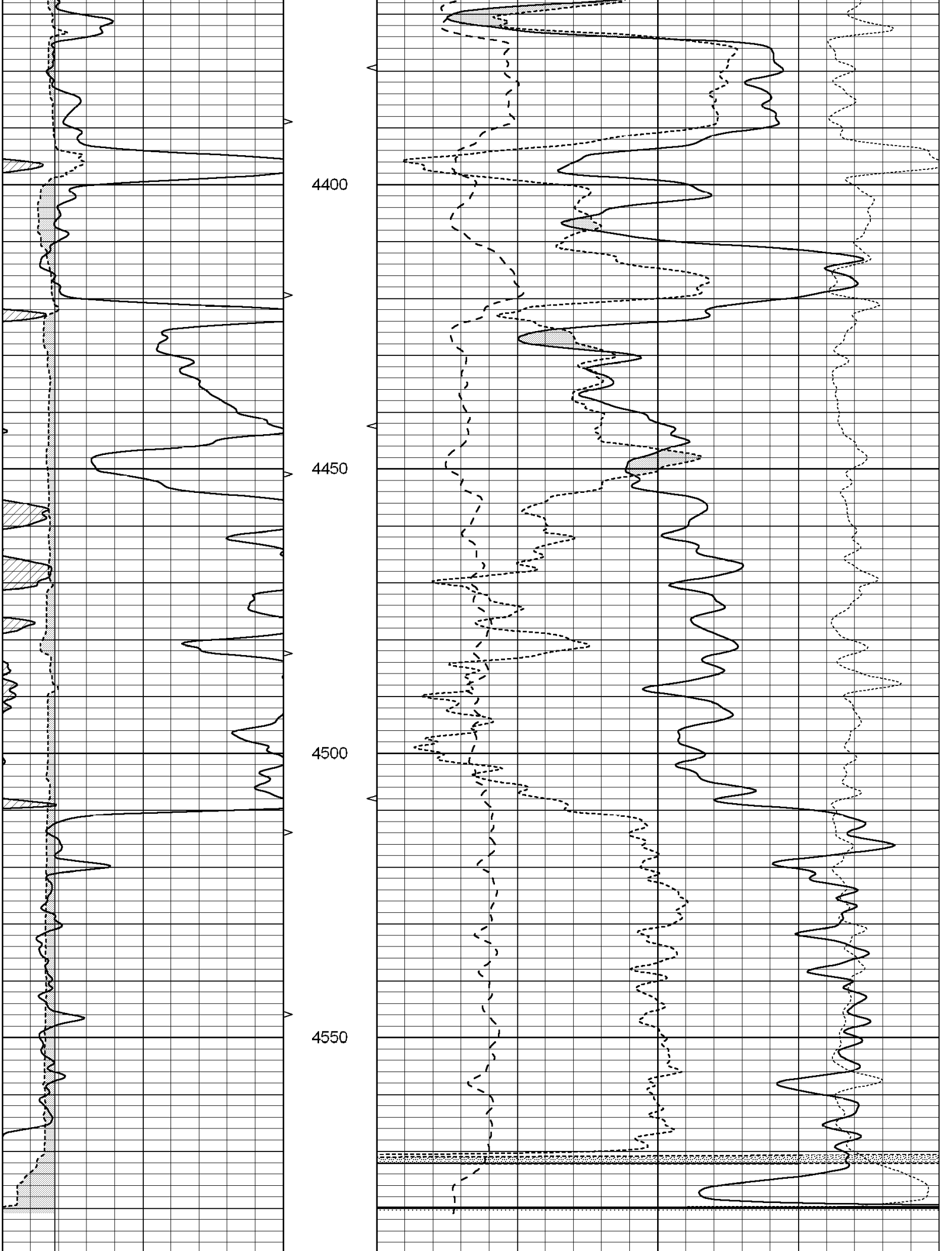
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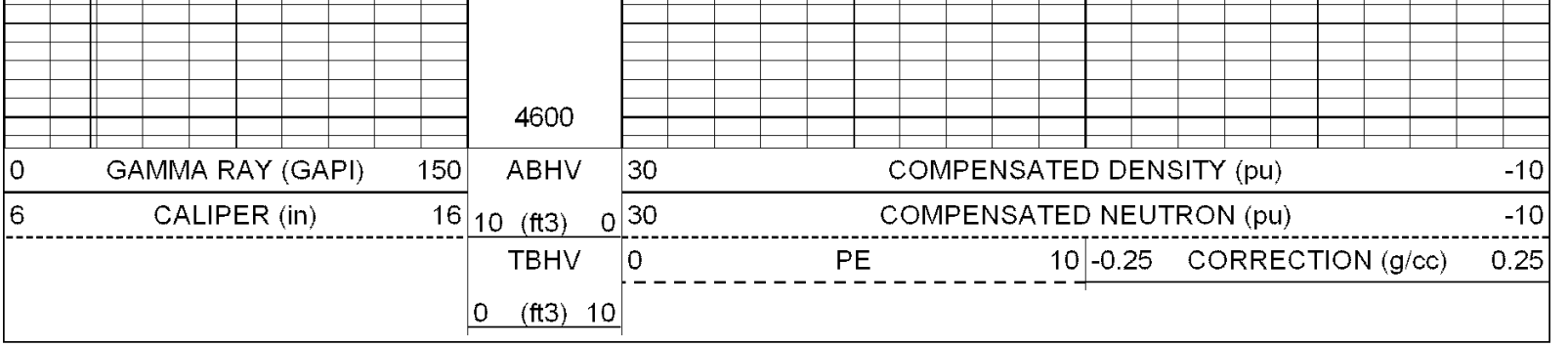
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REPEAT SECTION

Database File:	003083pe.db
Dataset Pathname:	pass2.7
Presentation Format:	ldt_neu
Dataset Creation:	Thu Dec 18 09:03:18 2008 by Calc Open-Cased 060407
Charted by:	Depth in Feet scaled 1:240




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4450
4500
4550

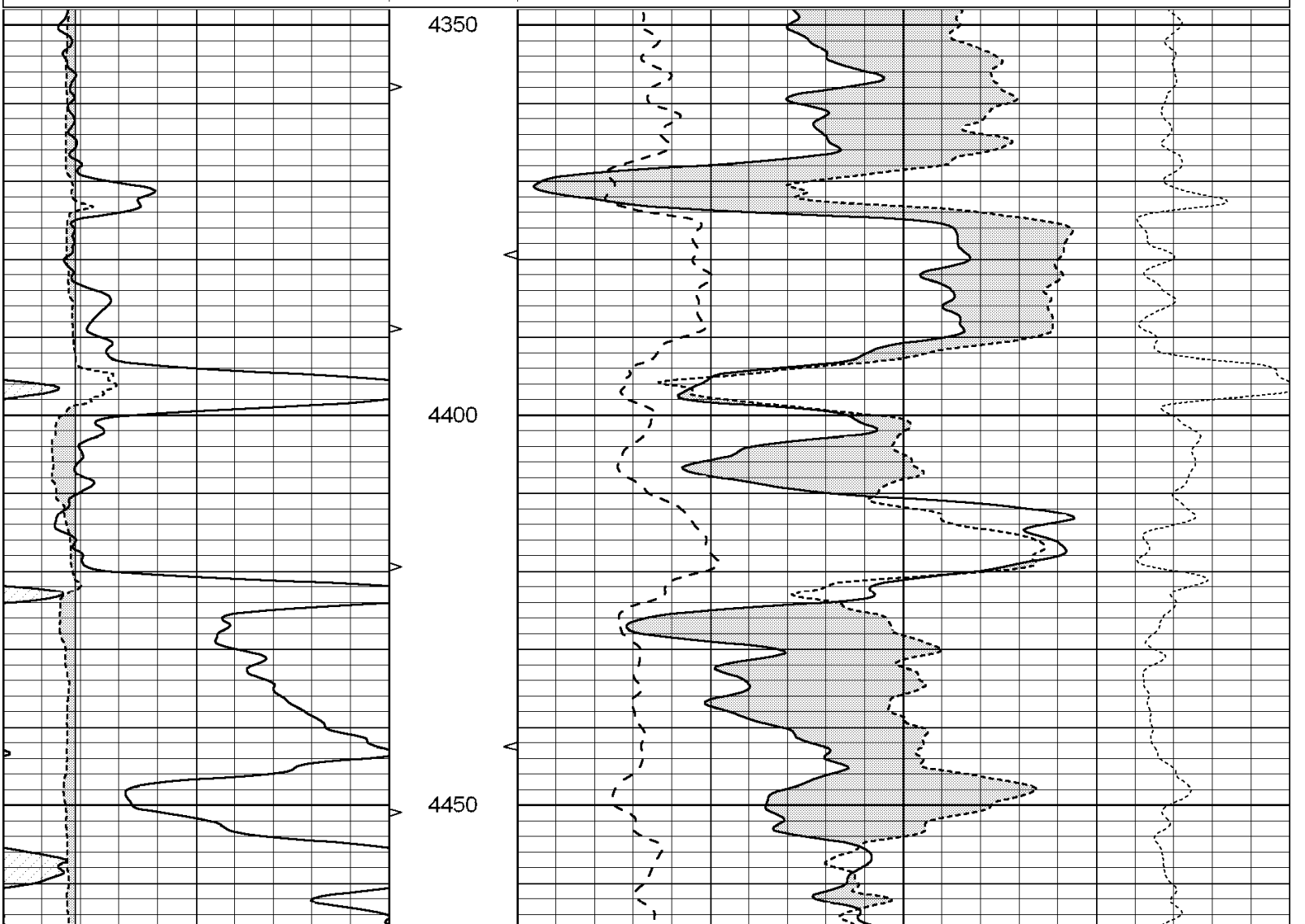


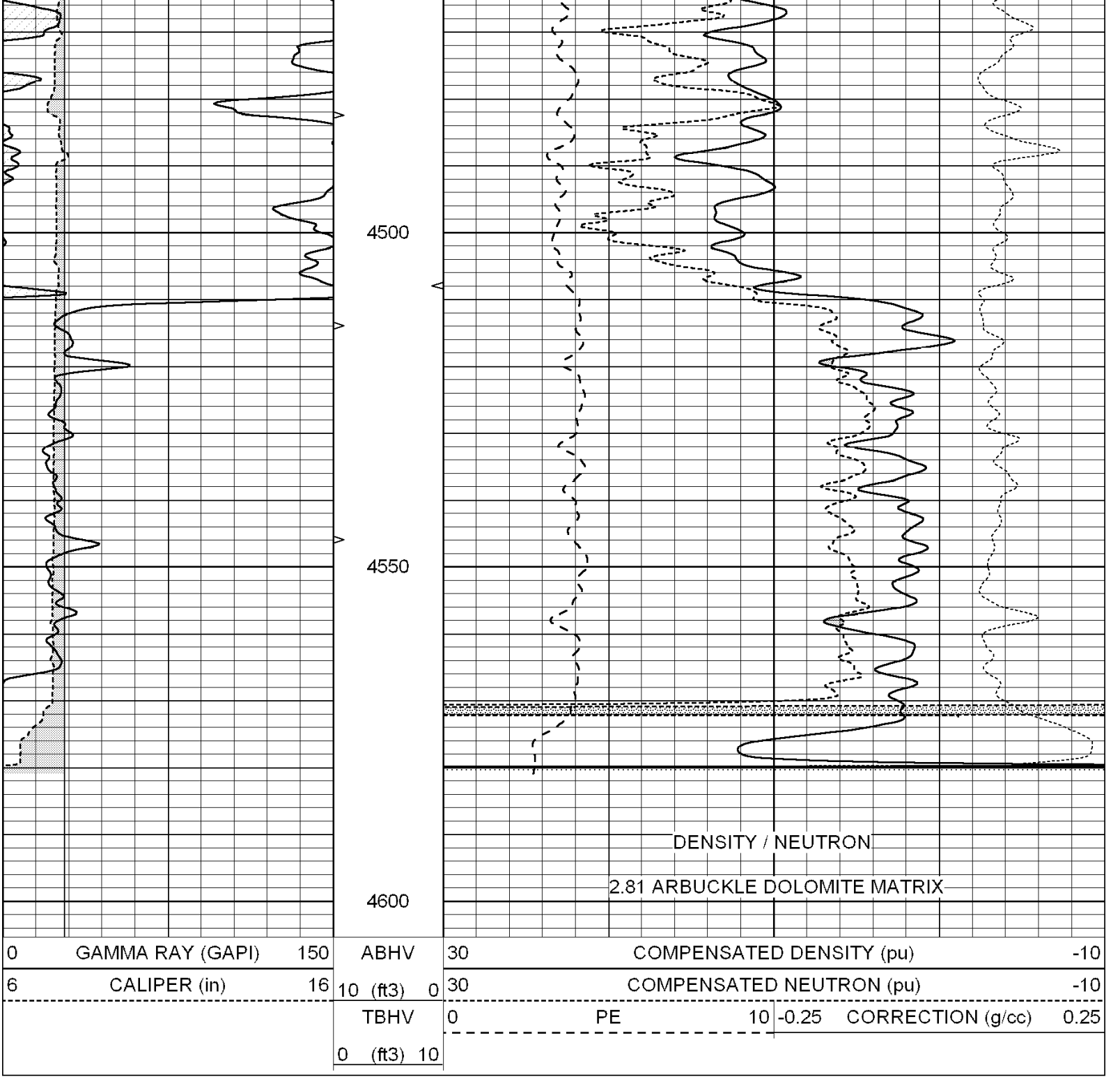
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DOLOMITE MATRIX

Database File: 003083pe.db
Dataset Pathname: pass2.8
Presentation Format: ldt_neu
Dataset Creation: Thu Dec 18 09:04:12 2008
Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File: 003083pe.db
Dataset Pathname: pass3.8
Dataset Creation: Thu Dec 18 10:00:42 2008 by Calc Open-Cased 060407

Dual Induction Calibration Report

Serial-Model: DIL2-GEAR
Performed: Thu Dec 18 08:29:34 2008

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.002	0.667	V	0.000	400.000	mmho-m	650.000	3.000
Medium	-0.003	0.739	V	0.000	462.500	mmho-m	720.000	-16.000

Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.001	0.658	V	0.000	400.000	mmho-m	609.010	-0.700
Medium	0.015	0.761	V	0.000	462.500	mmho-m	620.392	-9.326

Litho Density Calibration Report

Serial: 003 Model: PRB
Performed Sun May 27 14:00:47 2007

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	2129.3	13425.5	4493.9	14622.8	cps
Window 2	1911.5	10435.8	3706.5	11076.3	cps
Window 3	1670.1	6774.1	2736.9	7064.4	cps
Window 4	493.6	496.3	490.8	497.3	cps
Long Space	0.0	8524.3	1795.1	9164.8	cps
Short Space	2.1	3478.4	2258.5	3656.0	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	

Rib Angle	: 44.5	Rib Slope	: 0.983	Density/Spine Ratio	: 0.544
Spine Angle	: 74.5	Spine Slope	: 3.607	Spine Intercept	: -20.4

Caliper

	Readings	Reference
Low Ref	2.2	6.2
High Ref	4.5	15.5

Gain: 3.9 Offset: -2.3

Compensated Neutron Calibration Report

Serial Number: NEU_4I
Tool Model: G

CALIBRATION

Detector	Readings		Target		Normalization
Short Space	996.00	cps	1000.00	cps	1.0000
Long Space	977.00	cps	1000.00	cps	1.0000

Gamma Ray Calibration Report

Serial Number:	GR3	
Tool Model:	OPEN	
Performed:	Thu Dec 18 08:29:41 2008	
Calibrator Value:	200.0	GAPI
Background Reading:	3.0	cps
Calibrator Reading:	186.0	cps
Sensitivity:	0.5500	GAPI/cps