DUAL INDUCTION LOG

Company LYNN PACKARD
Well PACKARD #3-27
Field NURSE
County BARBER State KANSAS

Company	LYNN PACKARD
Well	PACKARD #3-27
Field	NURSE
County	BARBER
State	KANSAS

Location: API # : 15-007-24456-0000
255' FNL & 1860' FEL
NW - NE - NW - NE
SEC 27 TWP 31S RGE 13W

Other Services
CDL/CNL
PE/MEL

		Elevation
Permanent Datum	GROUND LEVEL	Elevation 1578
Log Measured From	KELLY BUSHING 8' A.G.L	K.B. 1586
Drilling Measured From	KELLY BUSHING	D.F. 1584
		G.L. 1578

Date	12/12/22					
Run Number	ONE					
Depth Driller	4490					
Depth Logger	4493					
Bottom Logged Interval	4491					
Top Log Interval	00					
Casing Driller	8 5/8 @ 222'					
Casing Logger	222					
Bit Size	7 7/8					
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 8,000 PPM				
Density / Viscosity	9.3/54					
pH / Fluid Loss	10.0/9.2					
Source of Sample	FLOWLINE					
Rm @ Meas. Temp	.850 @ 70F					
Rmf @ Meas. Temp	.638 @ 70F					
Rmc @ Meas. Temp	1.02 @ 70F					
Source of Rmf / Rmc	MEASUREMENT					
Rm @ BHT	.496 @ 120F					
Time Circulation Stopped	2 HOURS					
Time Logger on Bottom	1:30 P.M.					
Maximum Recorded Temperature	120F					
Equipment Number	3802					
Location	HAYS, KANSAS					
Recorded By	COLE ROBBEN					
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.

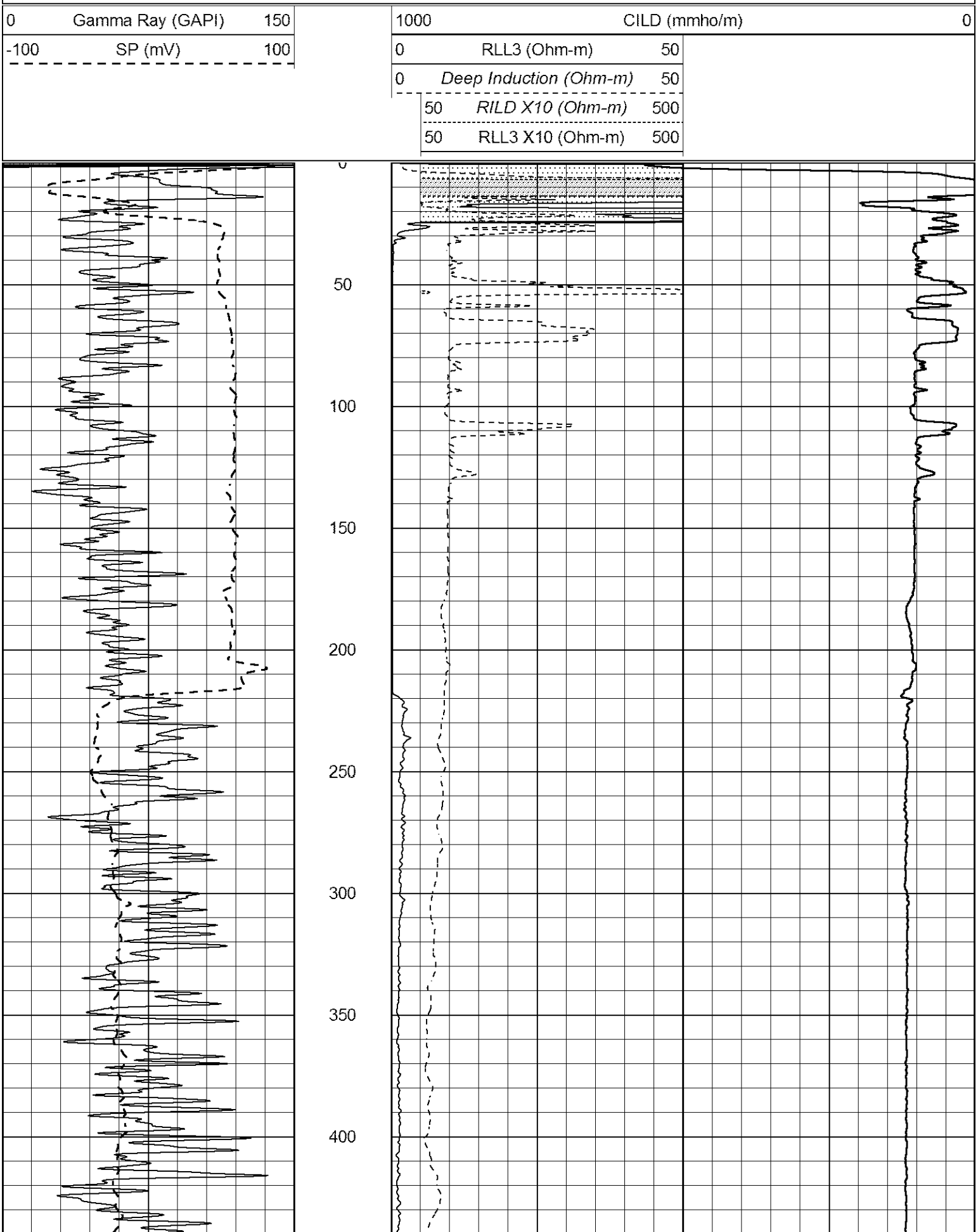
Comments

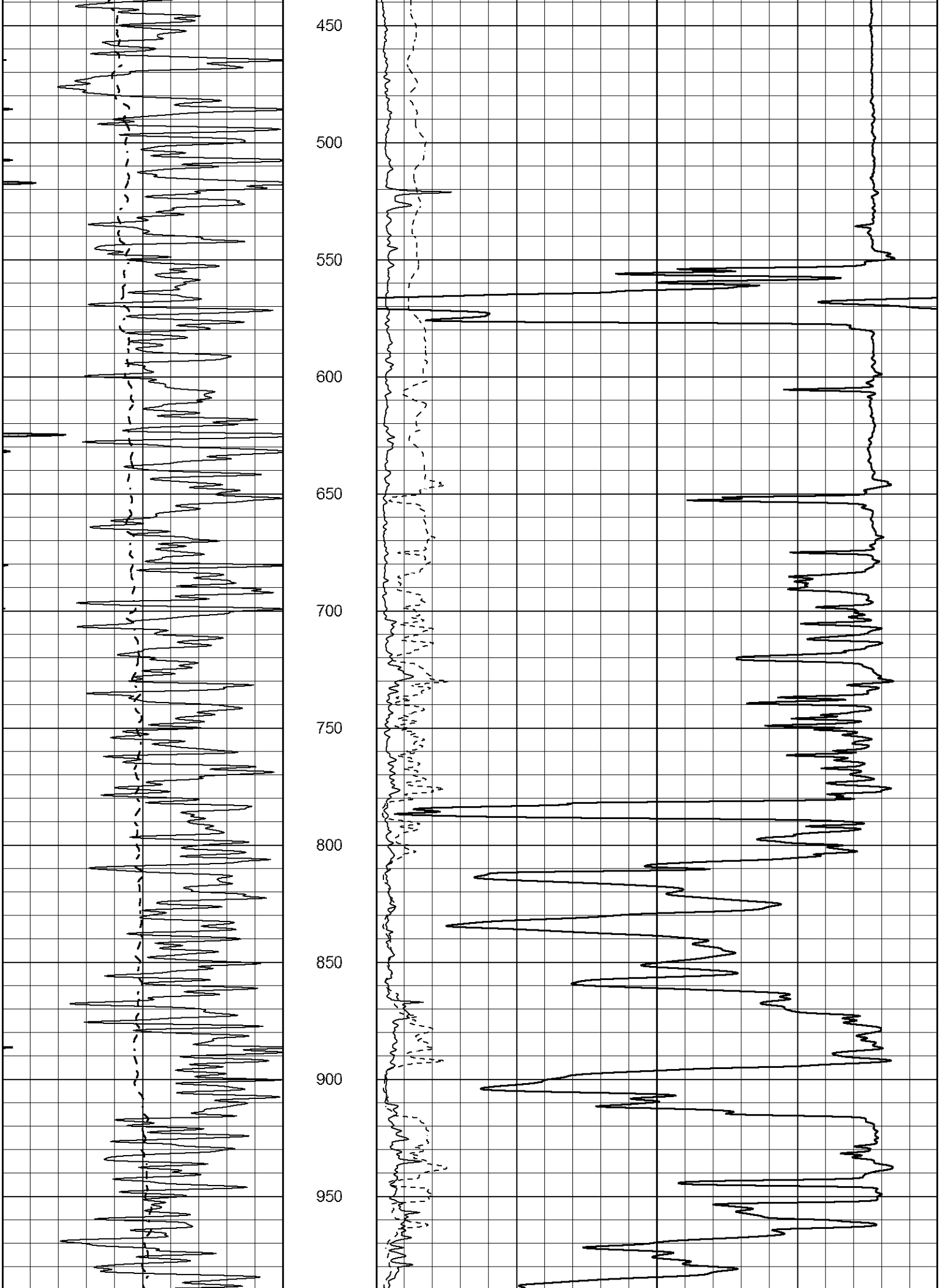
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395

DIRECTIONS:
FROM MEDICINE LODGE WEST ON RIVER ROAD 8 MILES, SOUTH INTO

MAIN SECTION

Database File	7390pe.db
Dataset Pathname	pass3M
Presentation Format	_dil2
Dataset Creation	Mon Dec 12 14:58:25 2022
Charted by	Depth in Feet scaled 1:600

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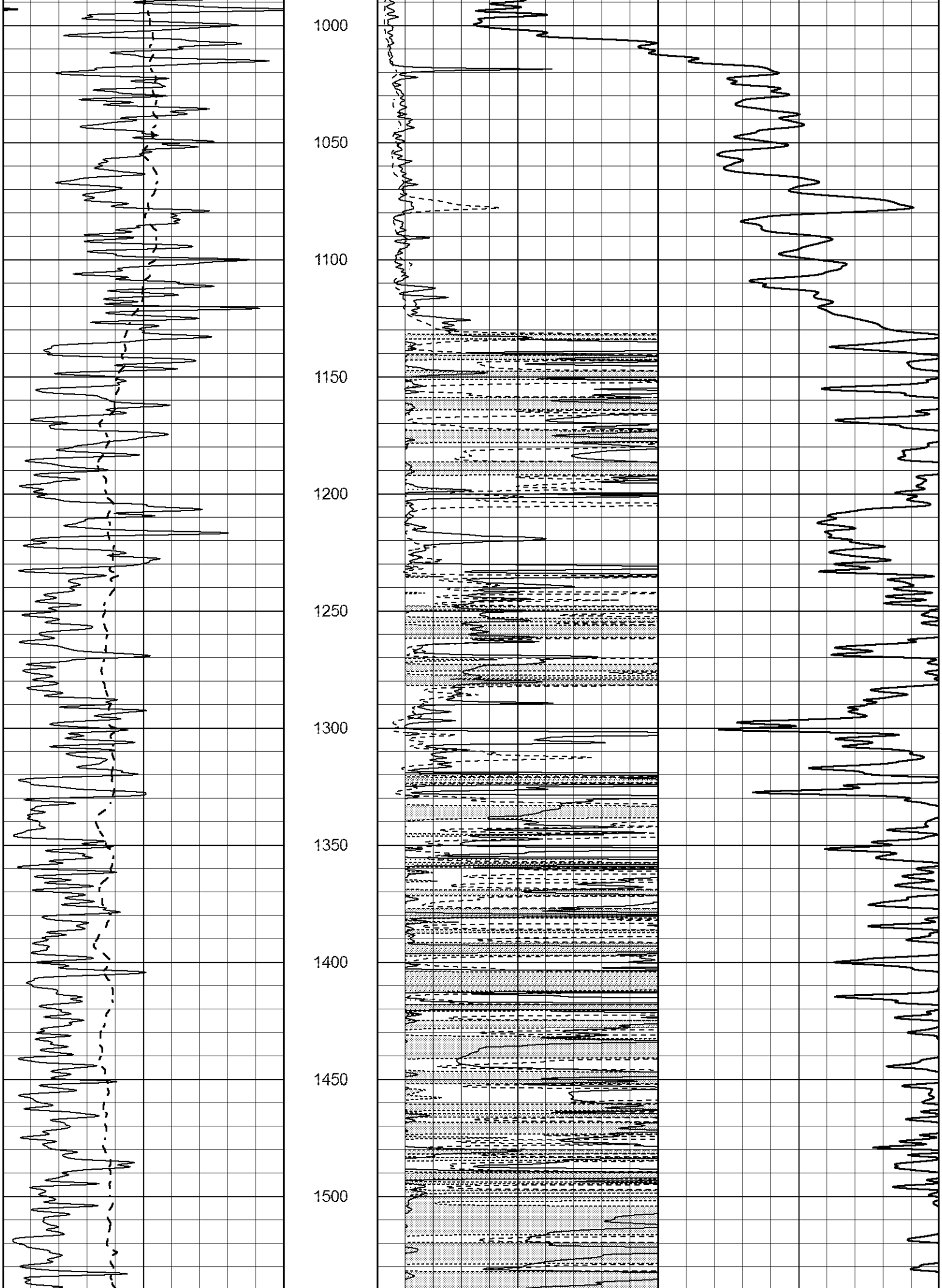
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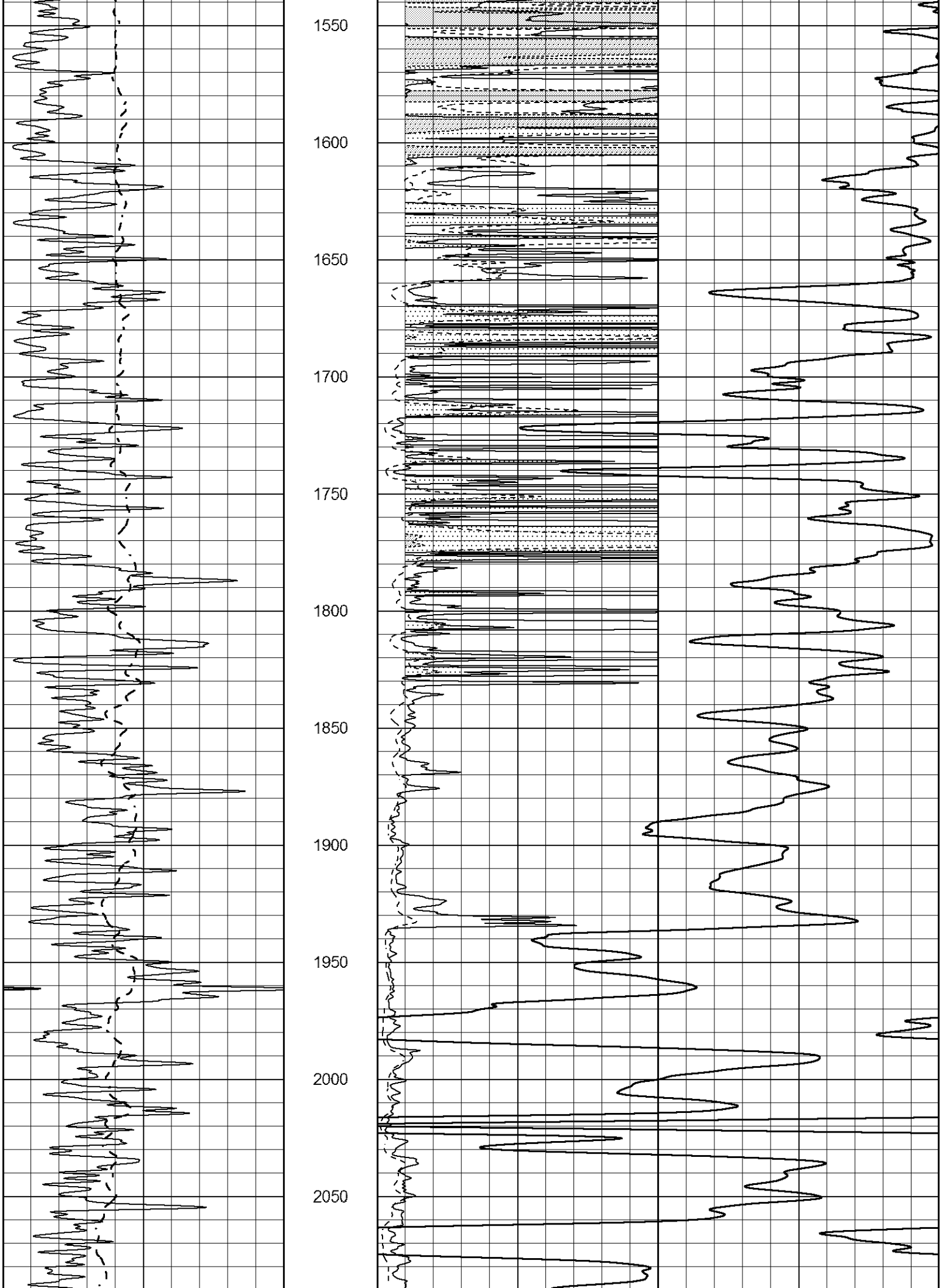
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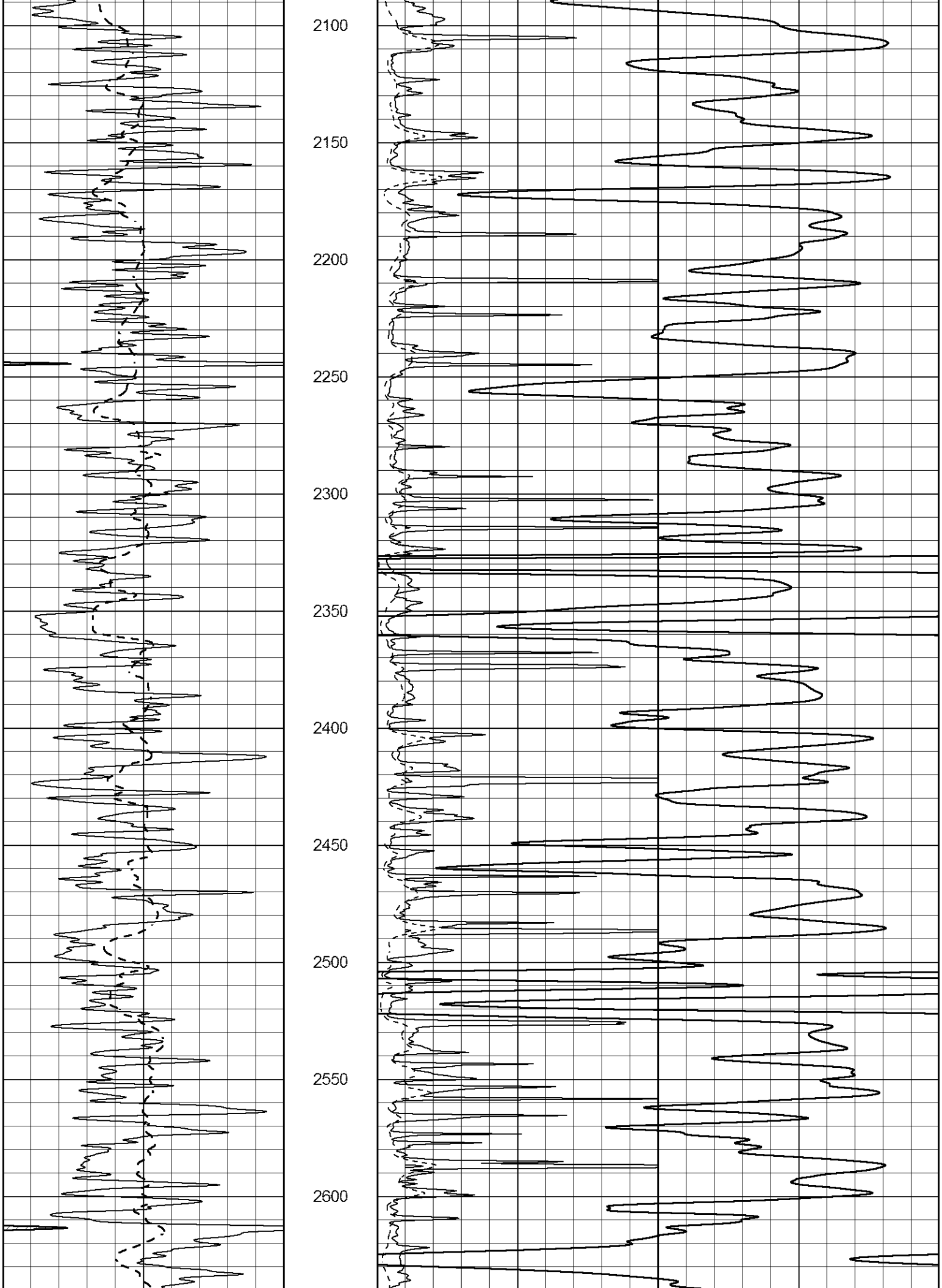
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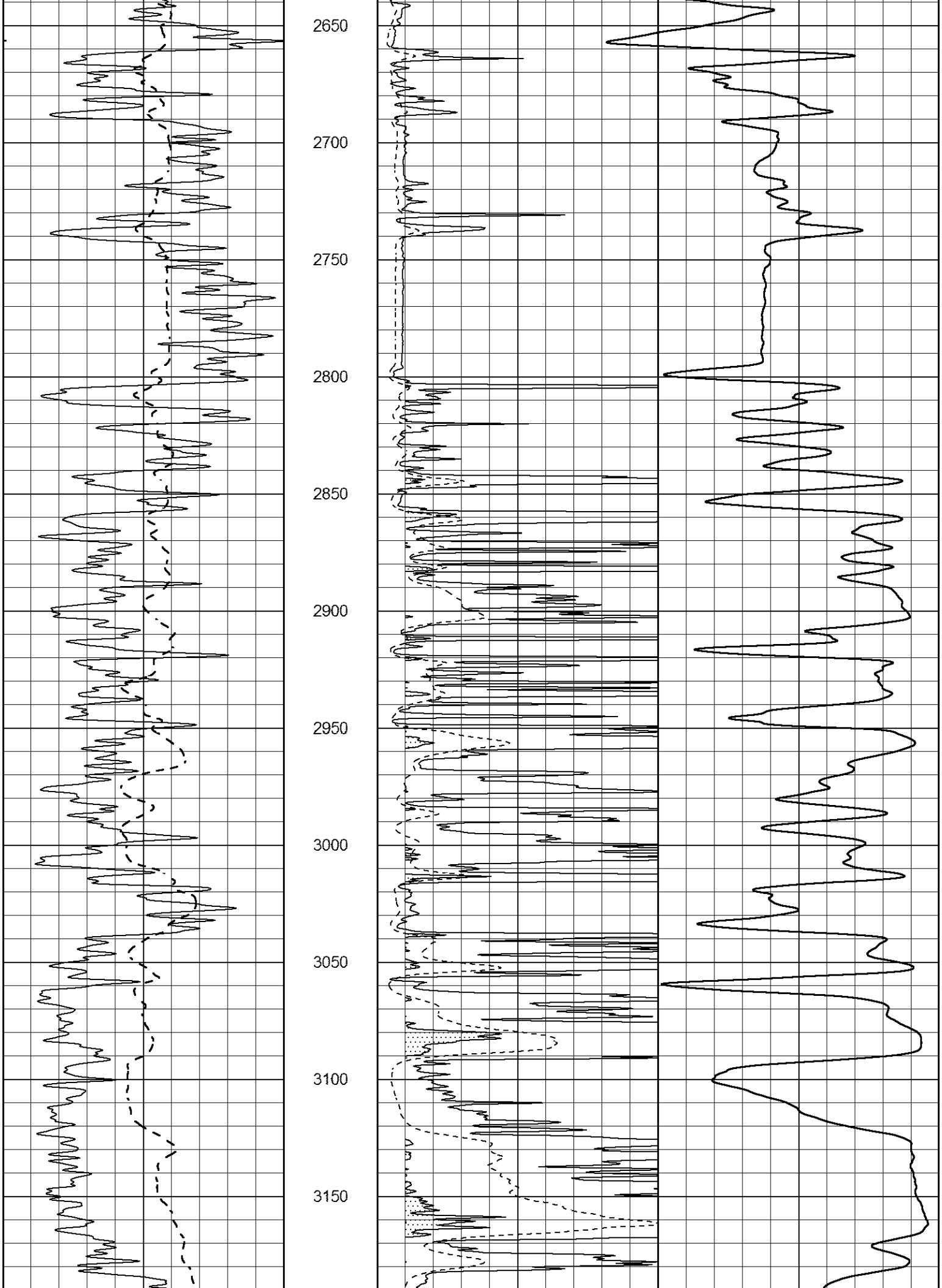
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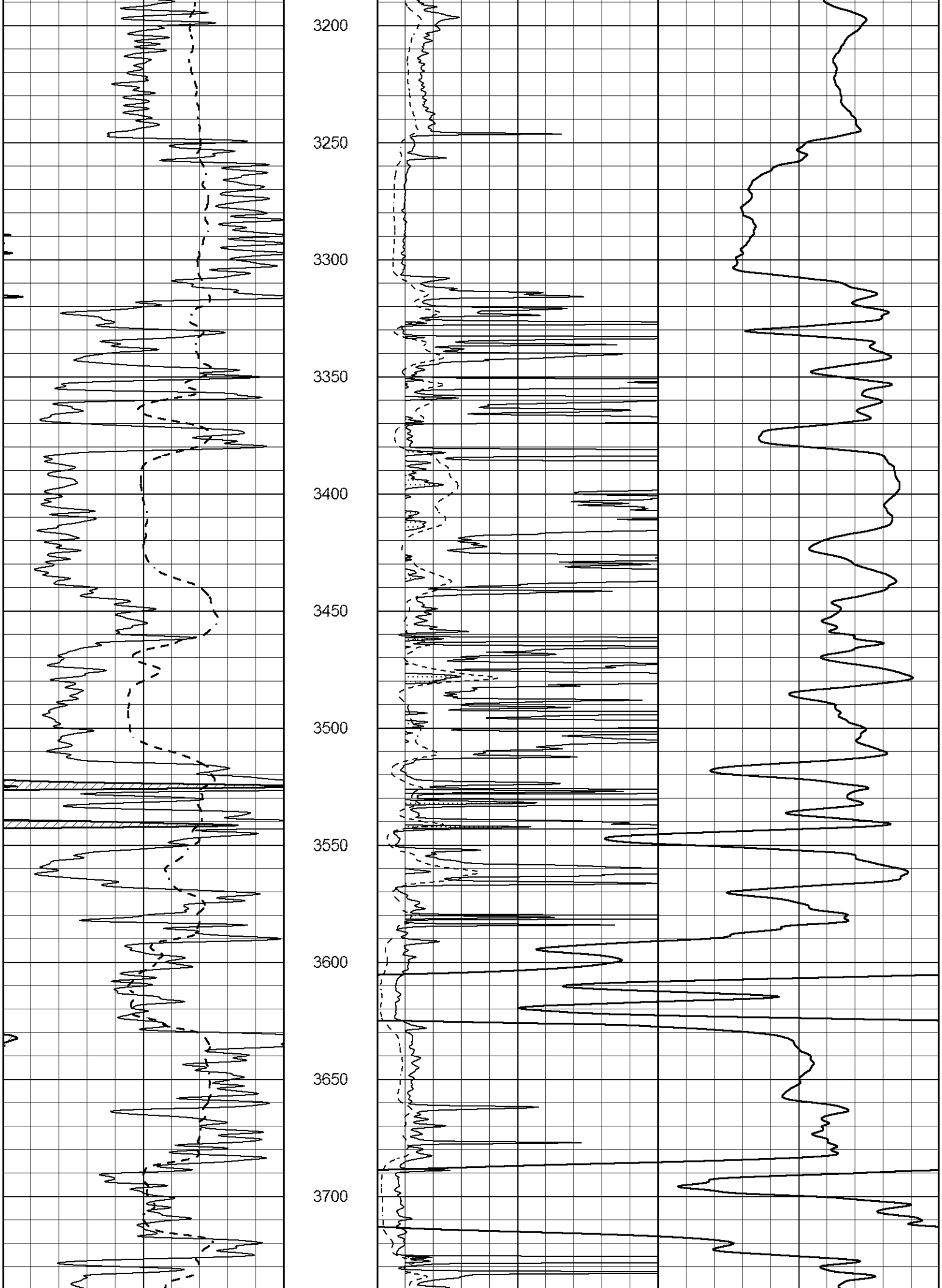
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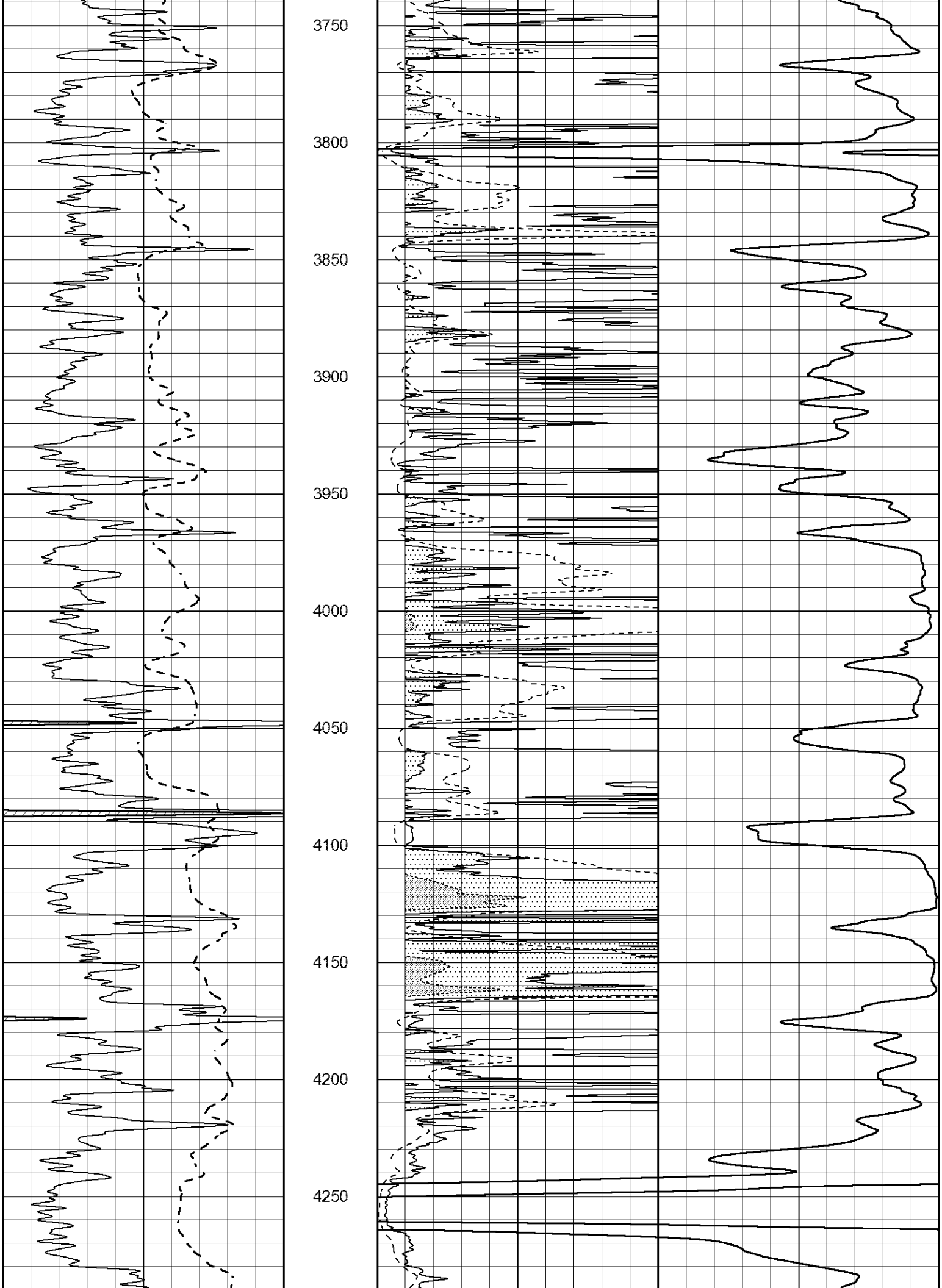
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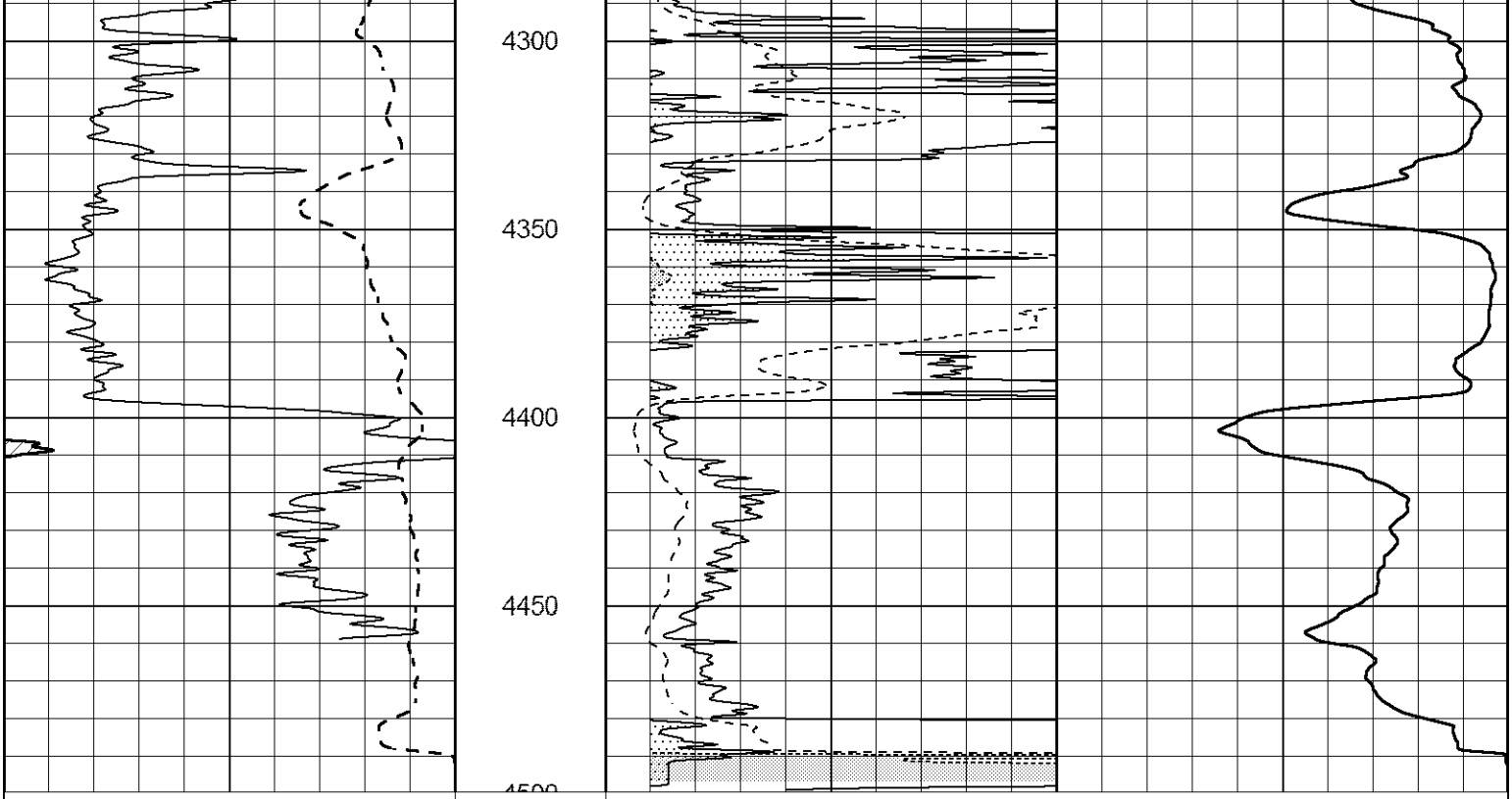
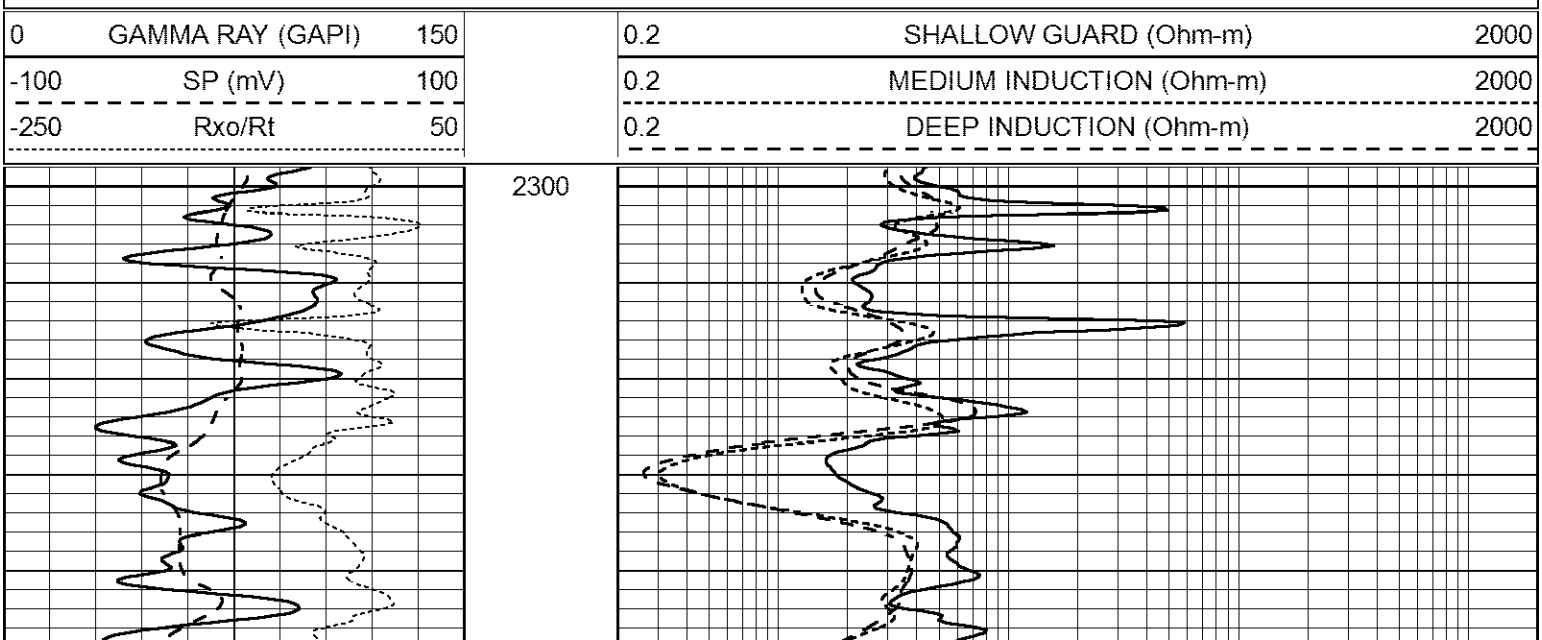
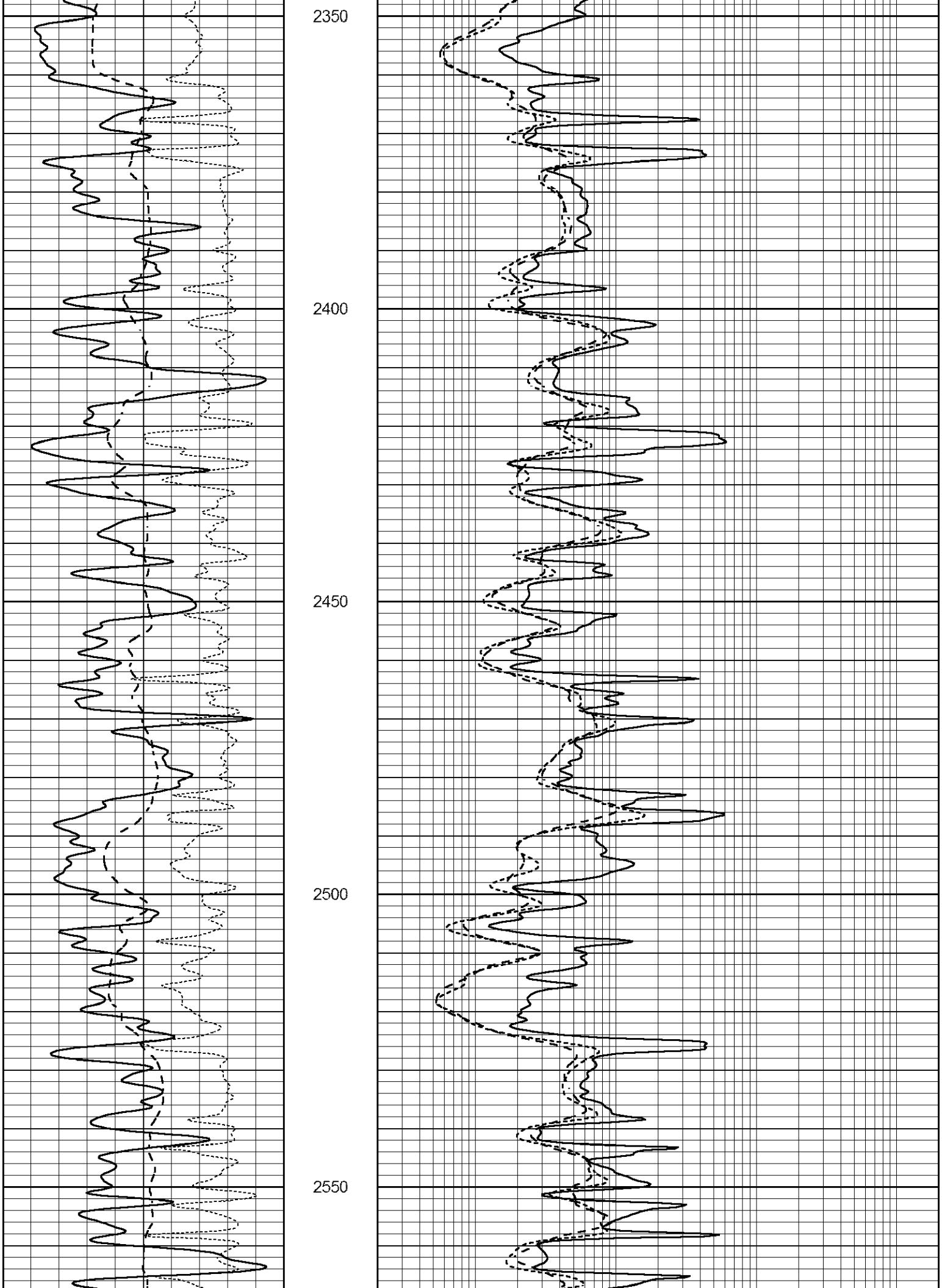


MAIN SECTION

Database File	7390pe.db
Dataset Pathname	pass3D
Presentation Format	_dil
Dataset Creation	Mon Dec 12 14:49:12 2022
Charted by	Depth in Feet scaled 1:240

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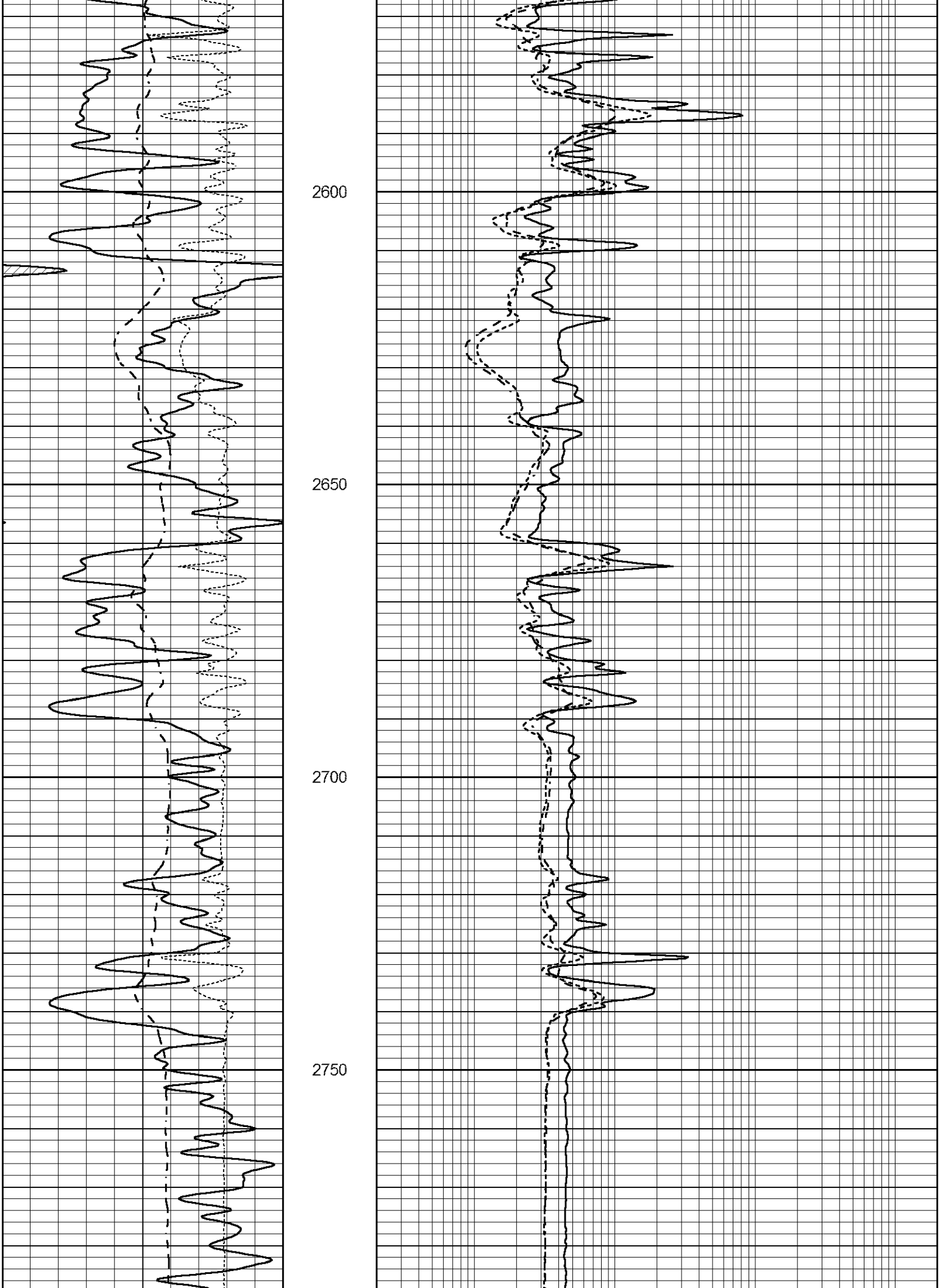
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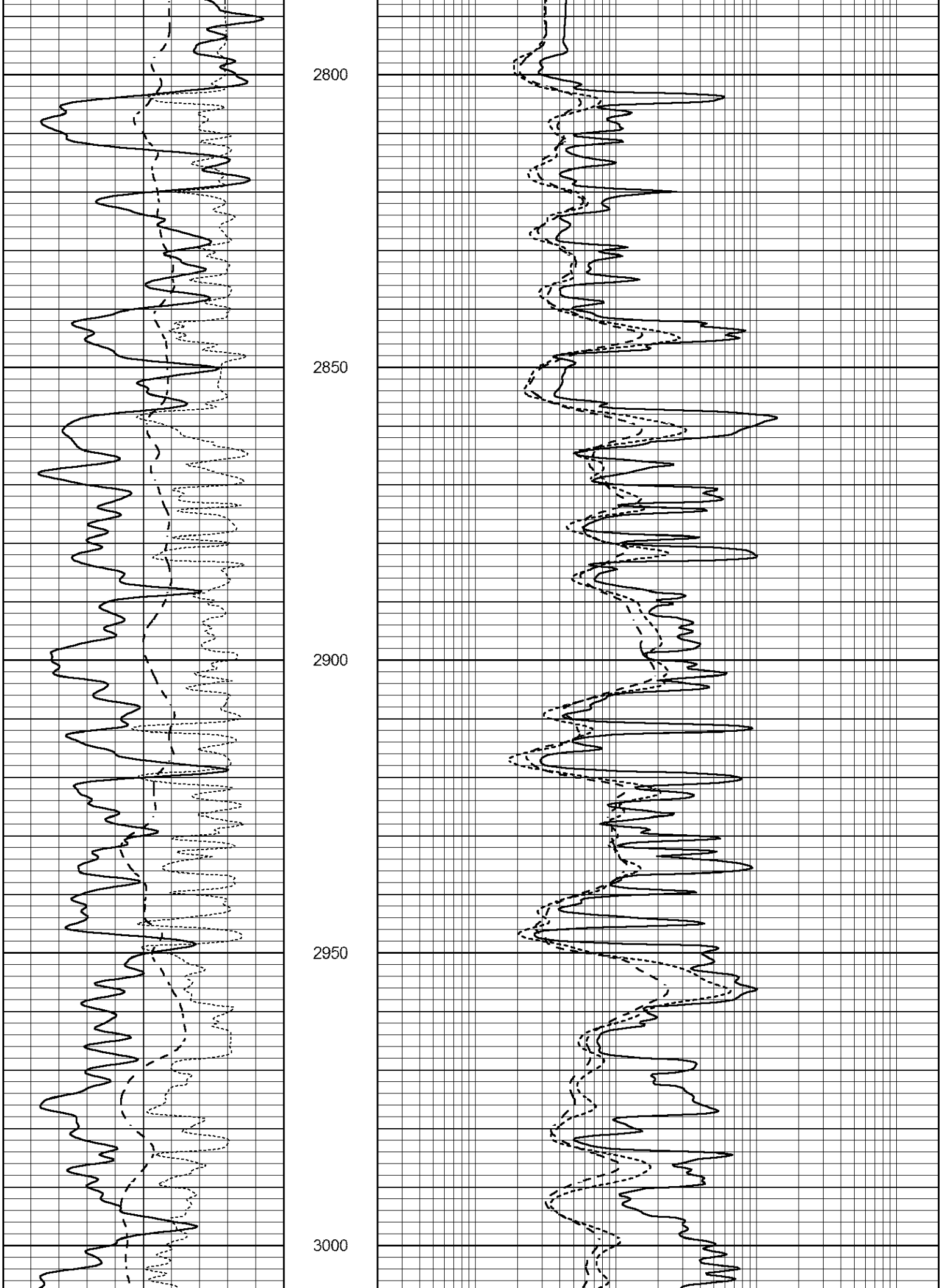
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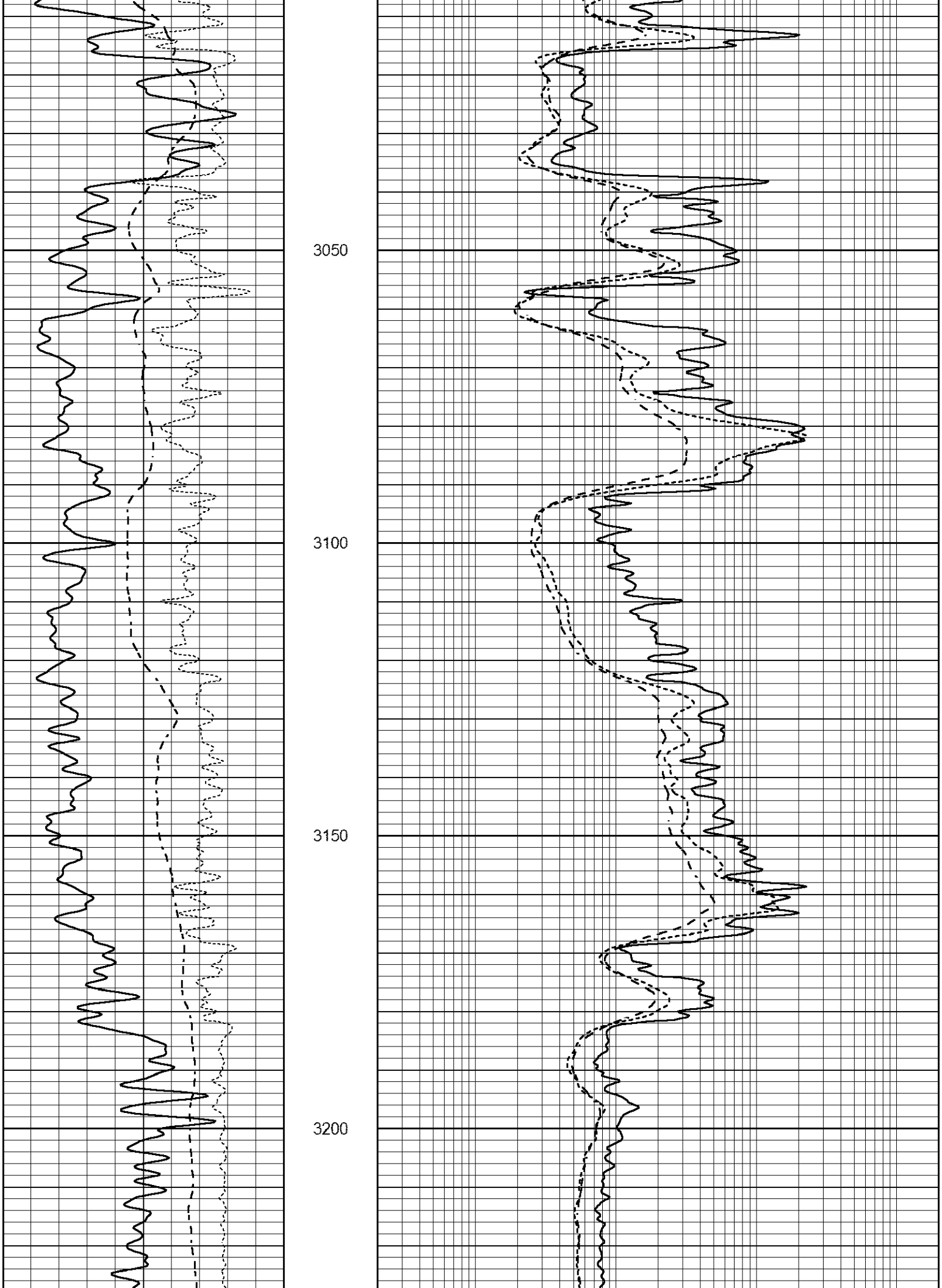
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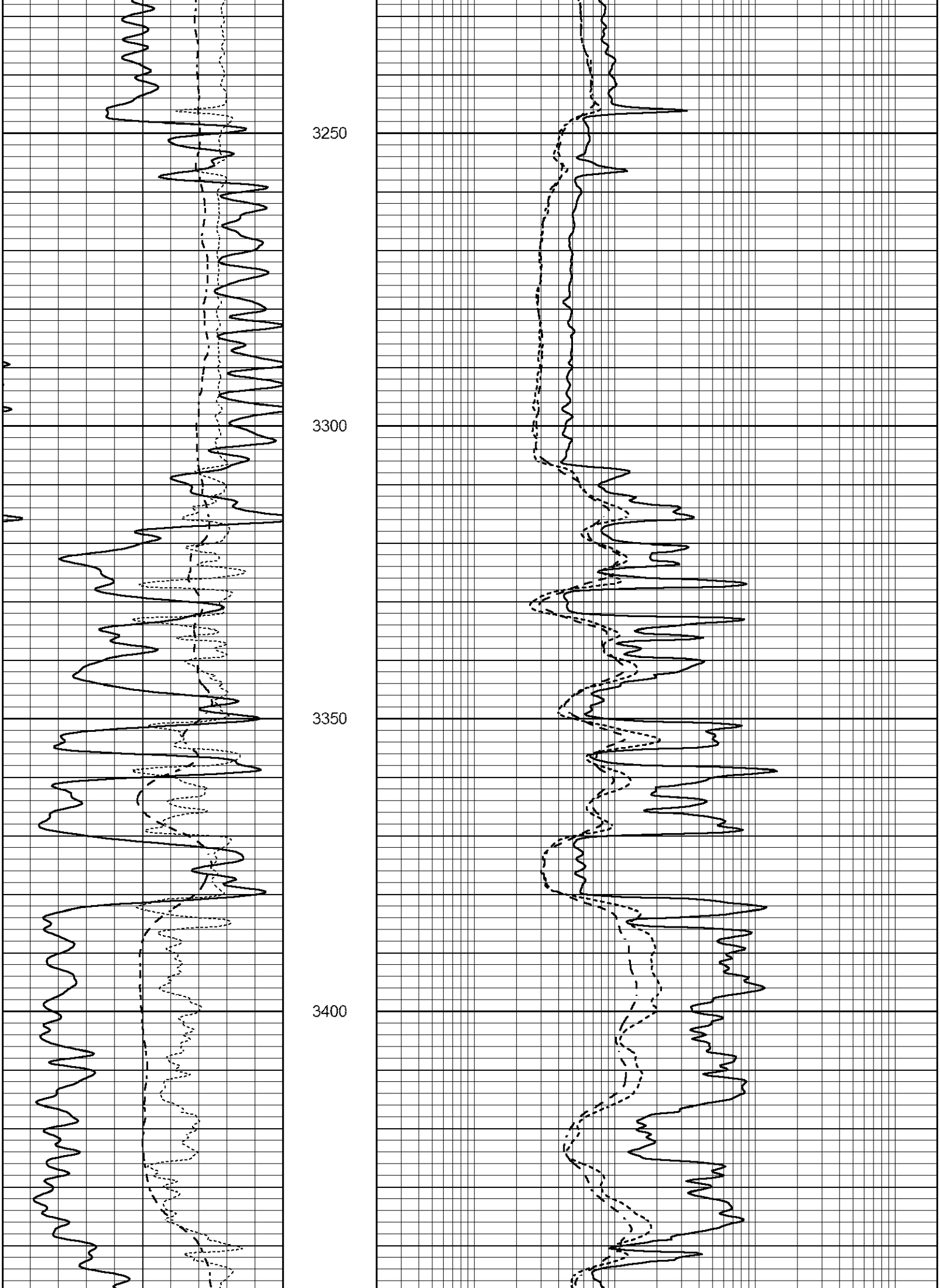
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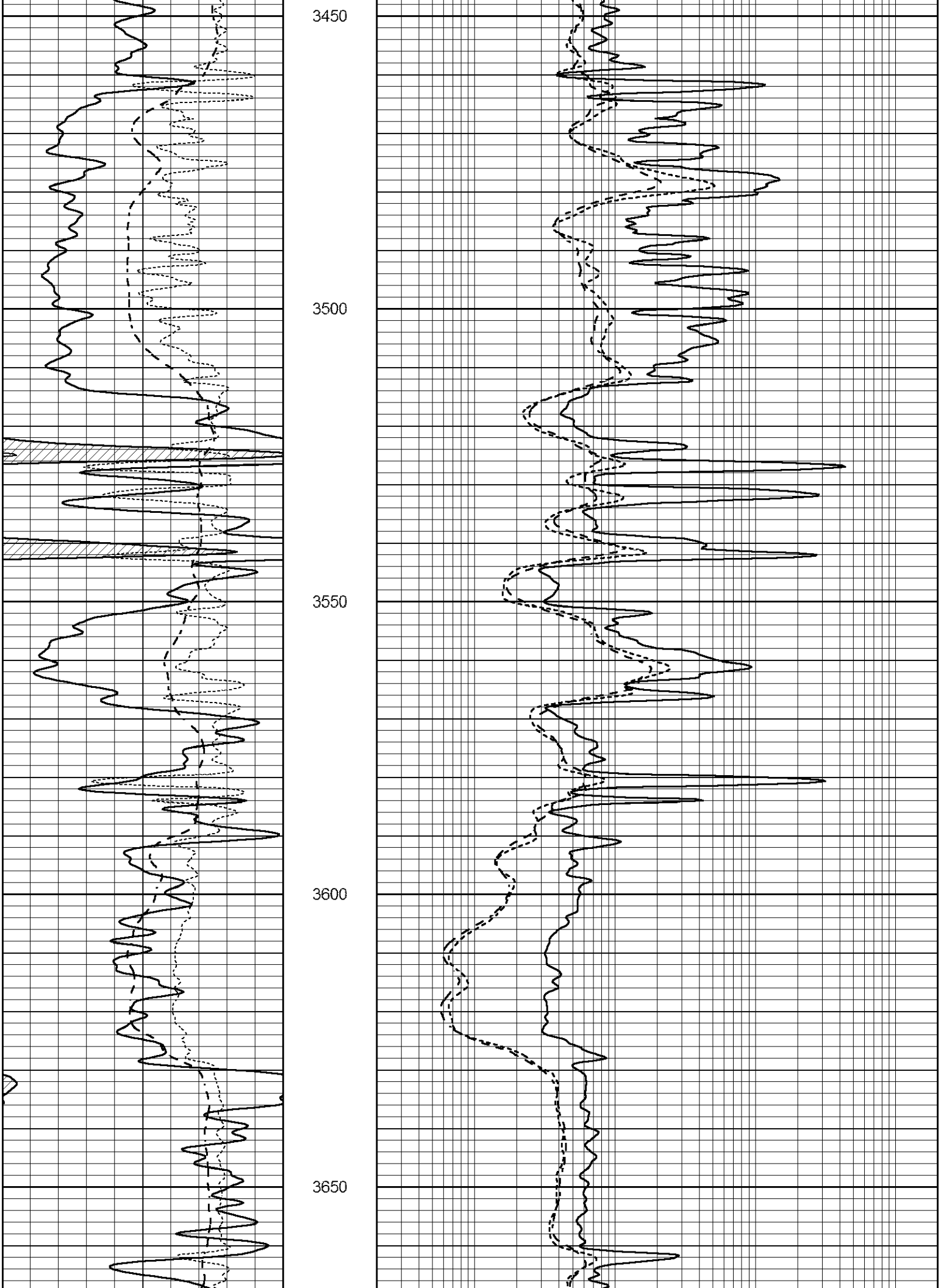
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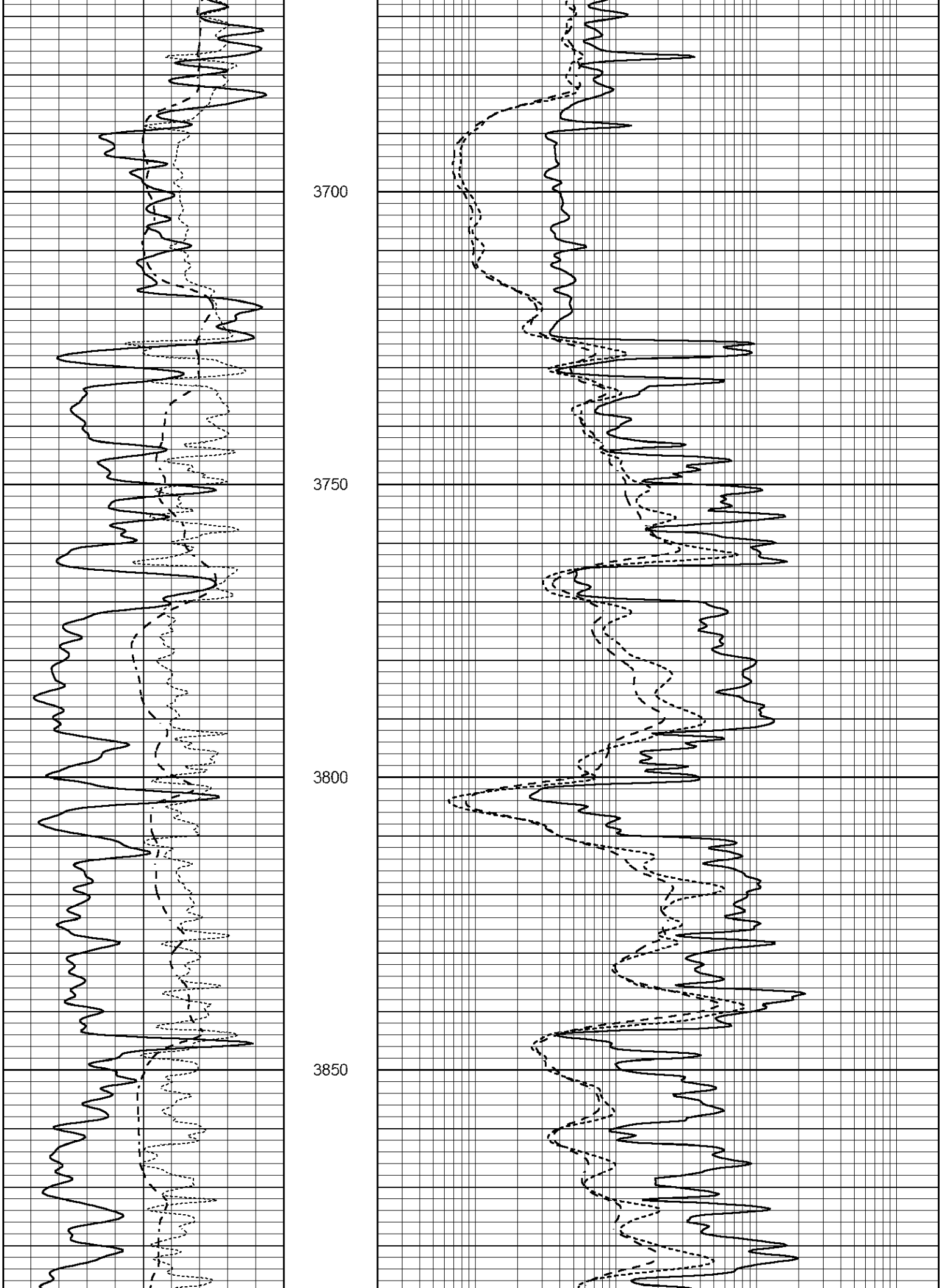
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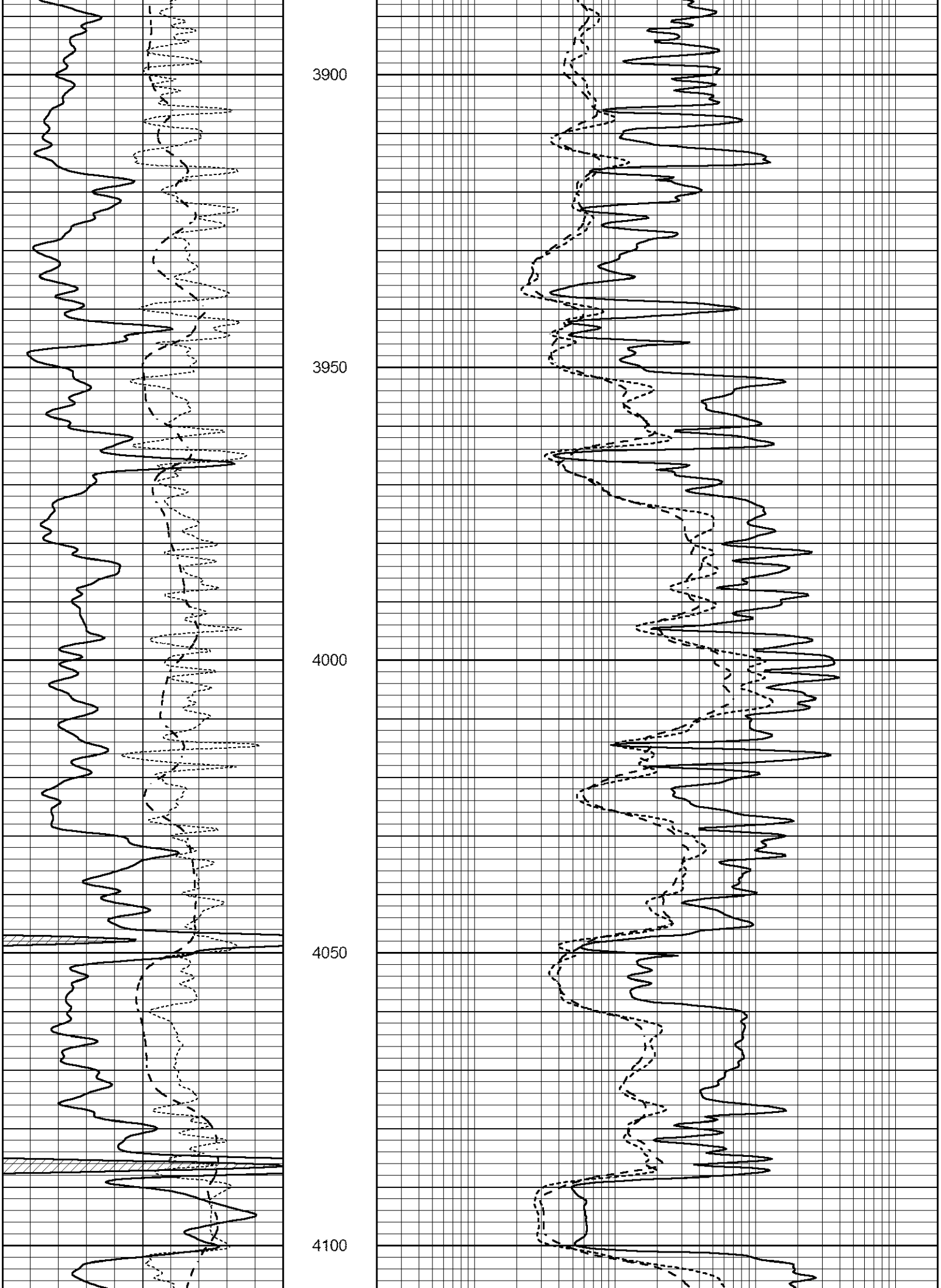
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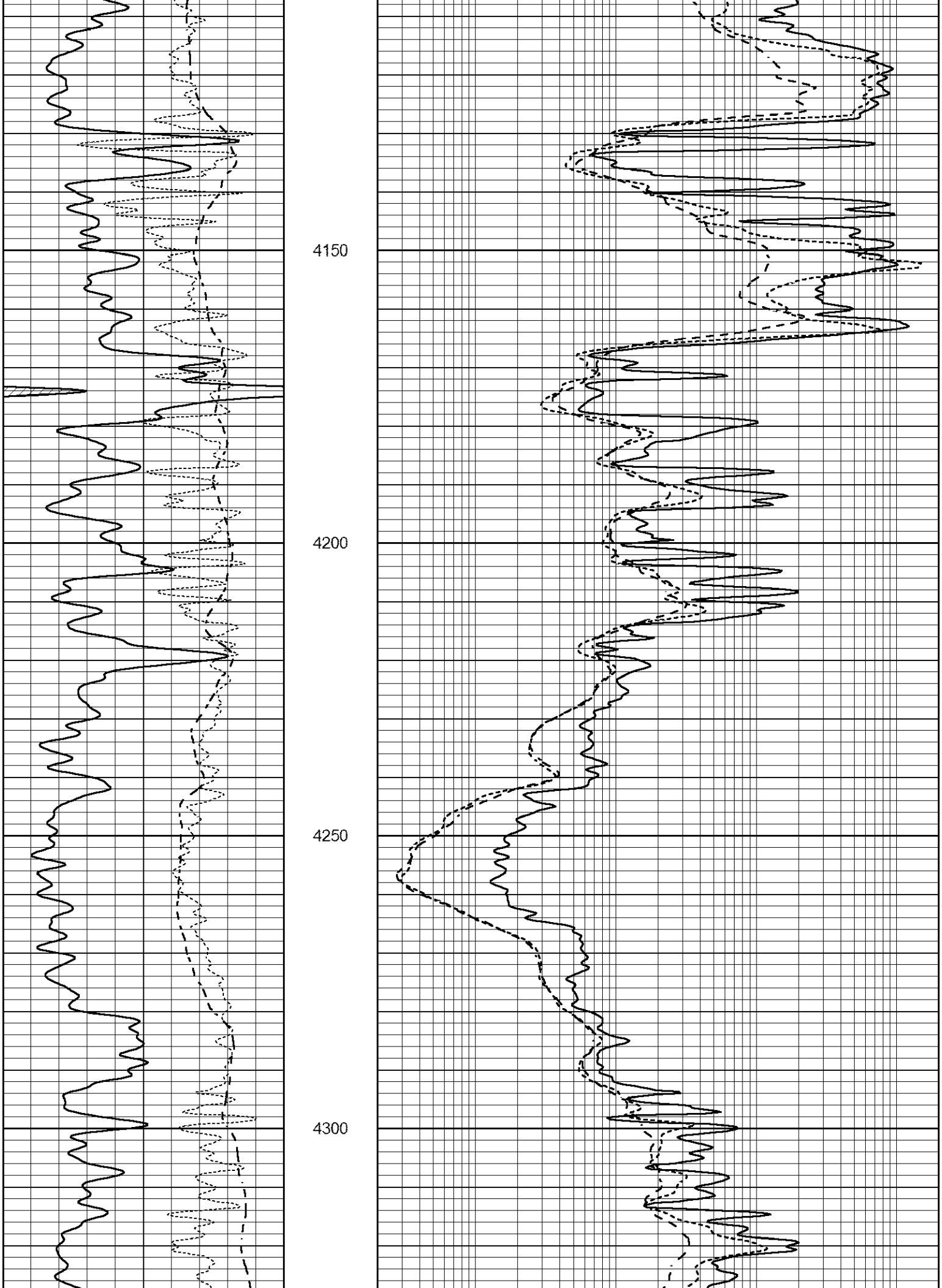
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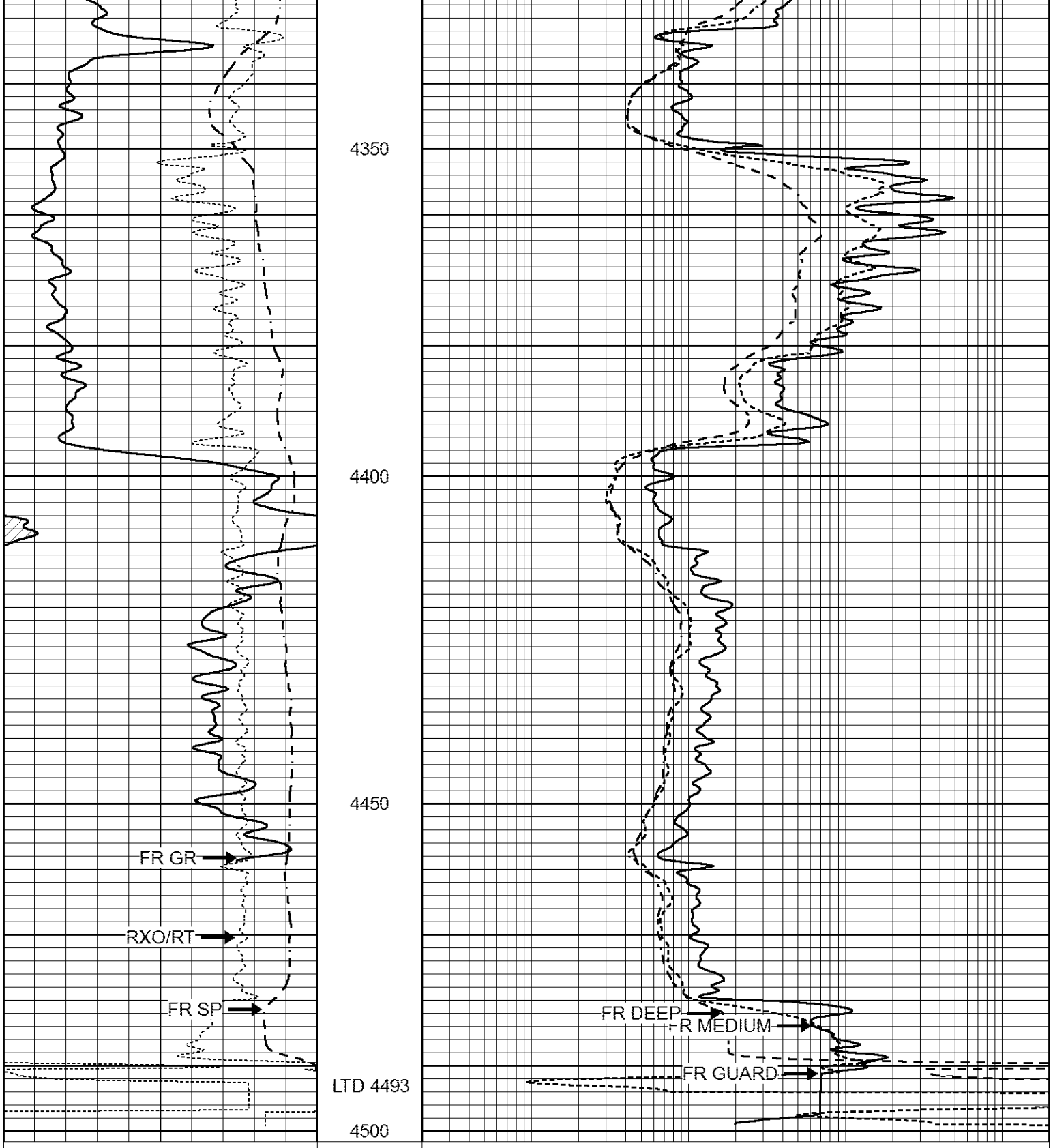


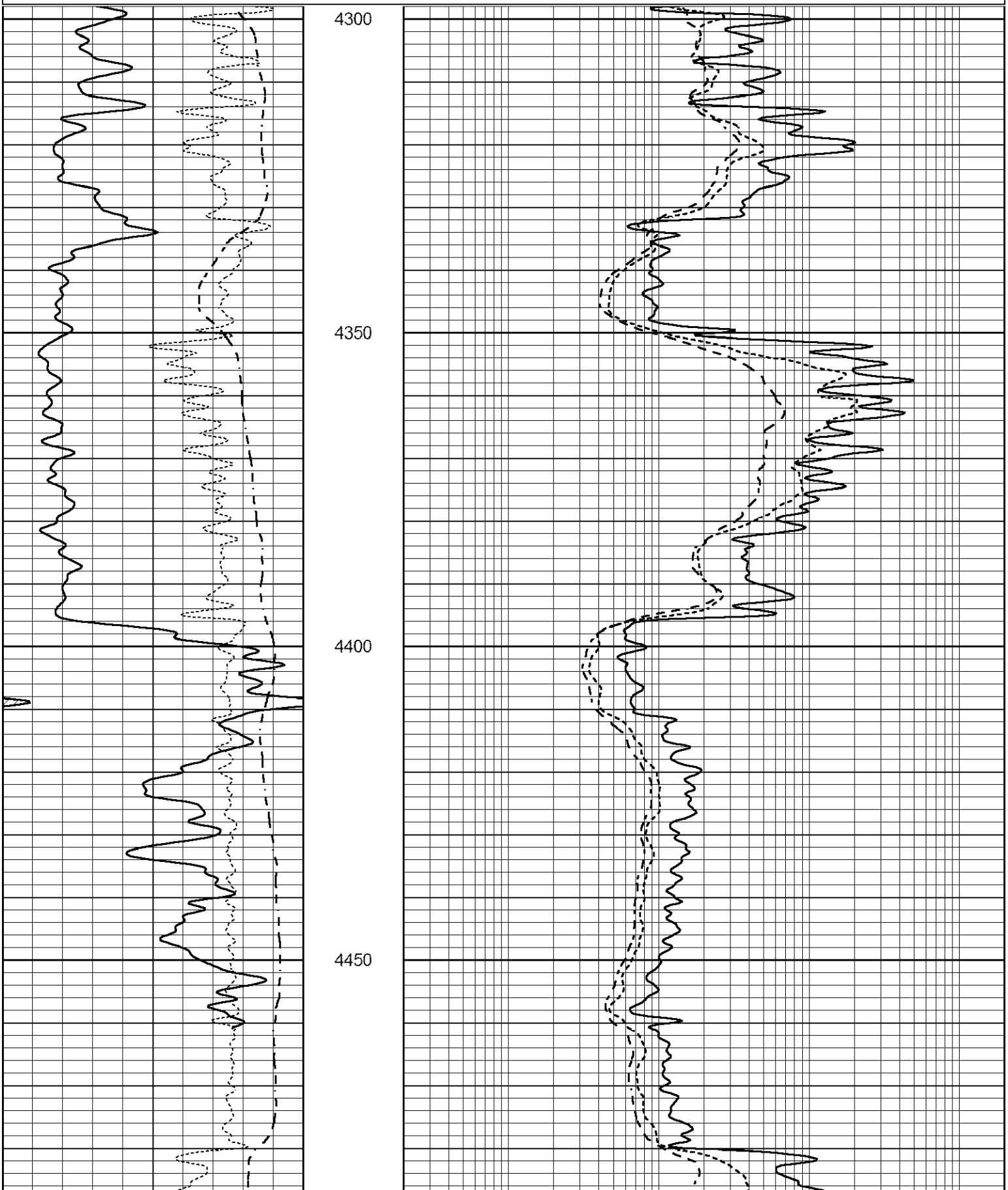
REPEAT SECTION

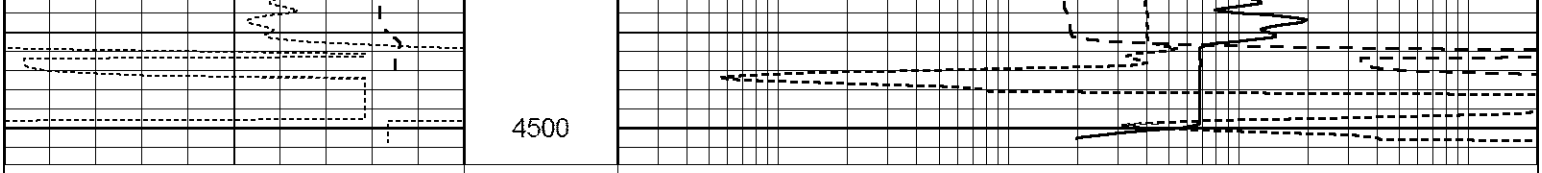
Database File 7390pe.db

Dataset Pathname	pass2R
Presentation Format	_dil
Dataset Creation	Mon Dec 12 14:20:26 2022
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000





0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000

4500

Calibration Report

Database File 7390pe.db
Dataset Pathname pass3D
Dataset Creation Mon Dec 12 14:49:12 2022

Dual Induction Calibration Report

Serial-Model: FW1410-56-Probe
Surface Cal Performed: Sat Dec 10 22:45:56 2022
Downhole Cal Performed: Tue Jul 25 12:15:37 2017
After Survey Verification Performed: Tue Jul 25 12:15:38 2017

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.008	0.765	V	1.000	400.000	mmho/m	580.000	-3.000
Medium	-0.056	0.761	V	1.000	464.000	mmho/m	680.000	125.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.005	0.624	V	0.000	400.000	mmho/m	645.611	-3.034
Medium	0.012	0.721	V	0.000	464.000	mmho/m	653.591	-7.532

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.647	301.329	mmho/m	-0.780	336.378	mmho/m	1.117	-0.058
Medium	38.256	411.013	mmho/m	39.046	441.706	mmho/m	1.080	-2.280
LL3		7.471	V		2500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.085	V		4000.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.647	301.329	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	38.256	411.013	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Litho Density Calibration Report

Serial: 005 Model: Litho_Ver3

Master Calibration

Performed Fri May 13 13:54:36 2022

	Background	Magnesium	Aluminum	Aluminum+Fe	
Window 1	1363.1	46477.8	11515.9	9589.9	cps
Window 2	1239.4	36488.4	9270.1	7998.9	cps

Window 3	1044.3	20488.1	5500.7	4913.3	cps
Window 4	315.7	358.7	321.5	319.5	cps
Long Space	0.0	35249.0	8030.7	6759.4	cps
Short Space	1.4	9675.7	6523.4	5391.9	cps
Rho		1.7100	2.5900	0.0000	g/cc
Pe		2.0000	2.7500	5.7900	

Rib Angle	: 45.1	Rib Slope	: 1.003	Density/Spine Ratio	: 0.575
Spine Angle	: 75.1	Spine Slope	: 3.752	Spine Intercept	: -24.0

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

Serial Number: 080621PMC
Tool Model: NABORS

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: 7
Tool Model: Probe1
Performed: Thu May 26 08:56:46 2022

Calibrator Value: 1.0 GAPI

Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5500	GAPI/cps