DUAL INDUCTION LOG

Company RAYMOND OIL COMPANY, INC.
Well KNEBEL-SHOPE #19-1
Field WILDCAT
County BUTLER State KANSAS

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Well KNEBEL-SHOPE #19-1
Field WILDCAT
County BUTLER
State KANSAS

Location: API # : 15-015-24105-0000

1980' FNL & 1350' FWL

SEC 19 TWP 24S RGE 8E

Other Services
CDL/CNL
MEL

Permanent Datum GROUND LEVEL Elevation 1514
Log Measured From KELLY BUSHING 6' A.G.L
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1520
D.F. 1518
G.L. 1514

Date	8/28/18		
Run Number	ONE		
Depth Driller	2790		
Depth Logger	2790		
Bottom Logged Interval	2788		
Top Log Interval	00		
Casing Driller	8 5/8" @ 253		
Casing Logger	258		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 1300 PPM	
Density / Viscosity	9.5/44		
pH / Fluid Loss	9.5/8.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.2 @ 94F		
Rmf @ Meas. Temp	.90 @ 94F		
Rmc @ Meas. Temp	1.4 @ 94F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	1.0 @ 105F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	105F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	ROBERT TURNER		

<<< Fold Here >>>

Comments

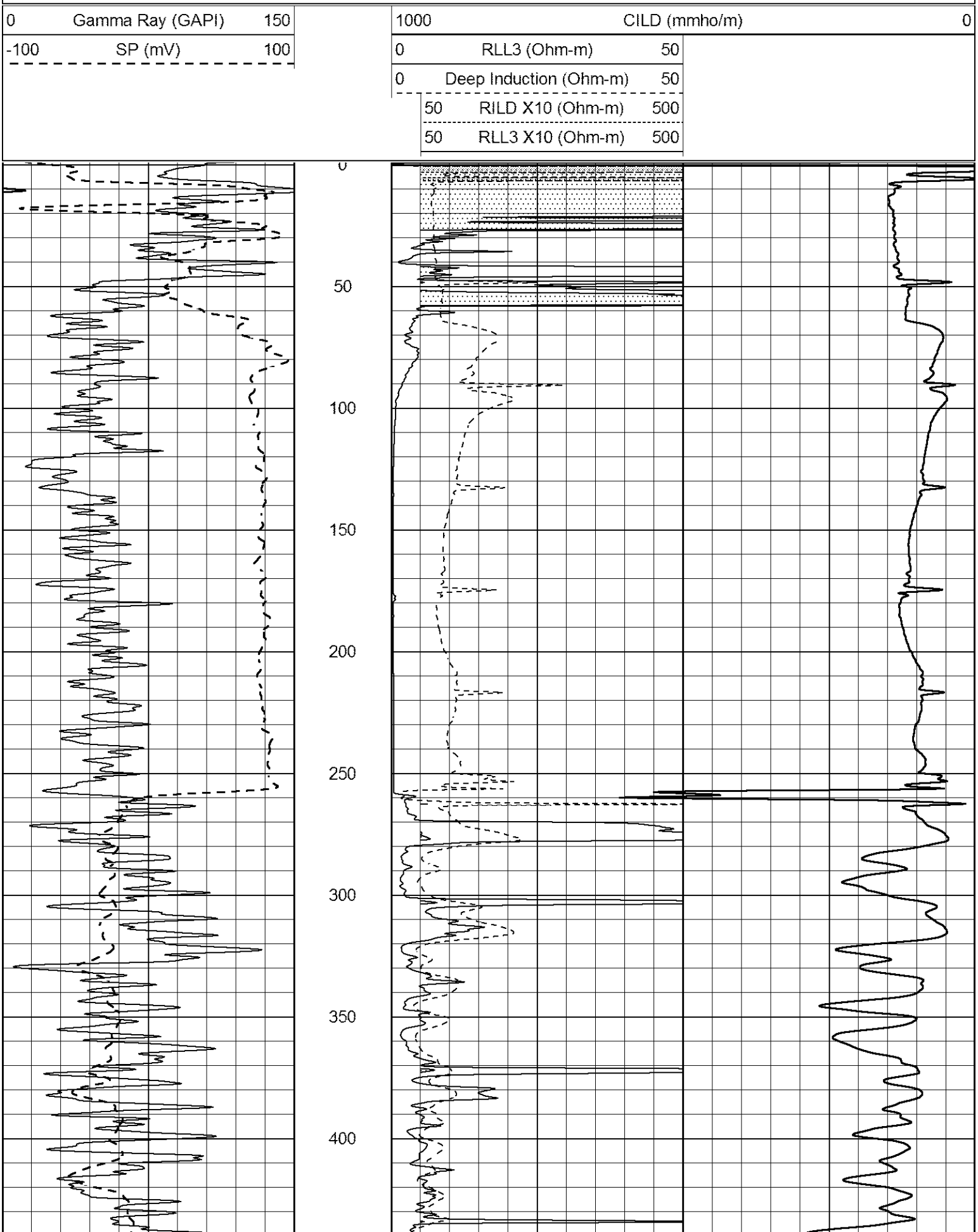
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395

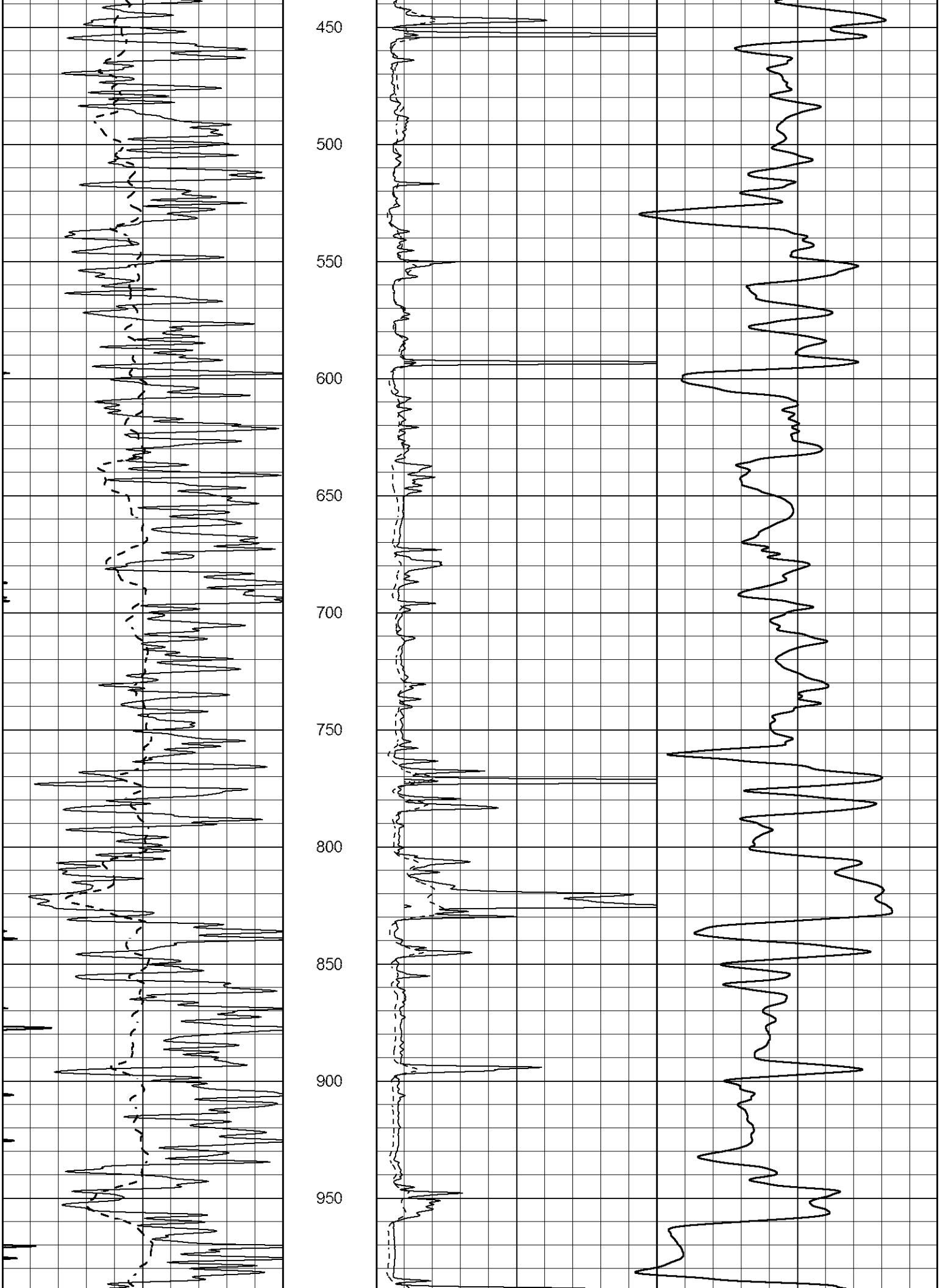
DIRECTIONS

CASSODAY, KS. - 5 SOUTH TO JOG EAST 1 MILE - 2 SOUTH - EAST INTO

MAIN SECTION

Database File	3001ddn8.db
Dataset Pathname	pass3.2
Presentation Format	_dil2
Dataset Creation	Tue Aug 28 15:16:36 2018
Charted by	Depth in Feet scaled 1:600

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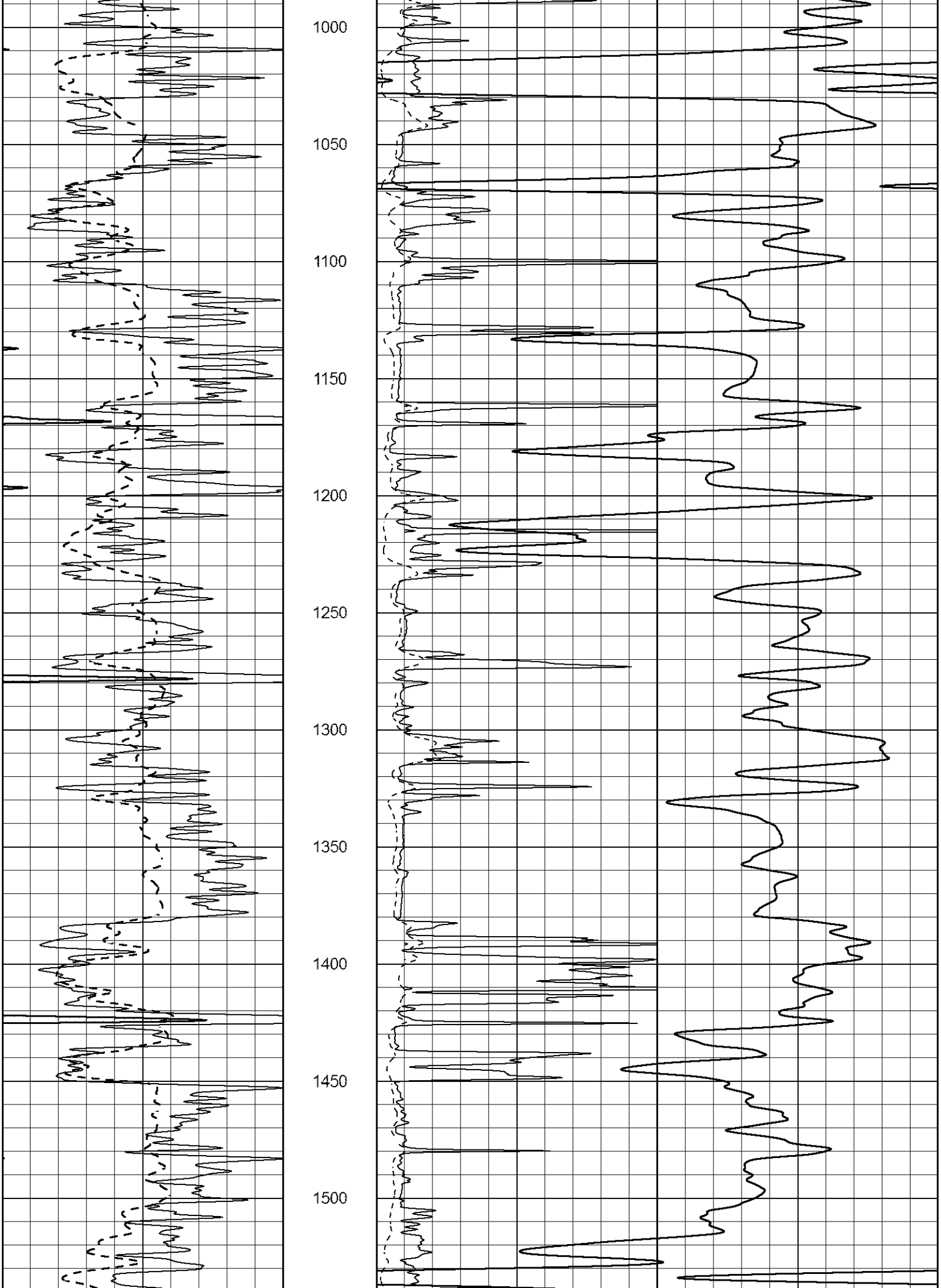
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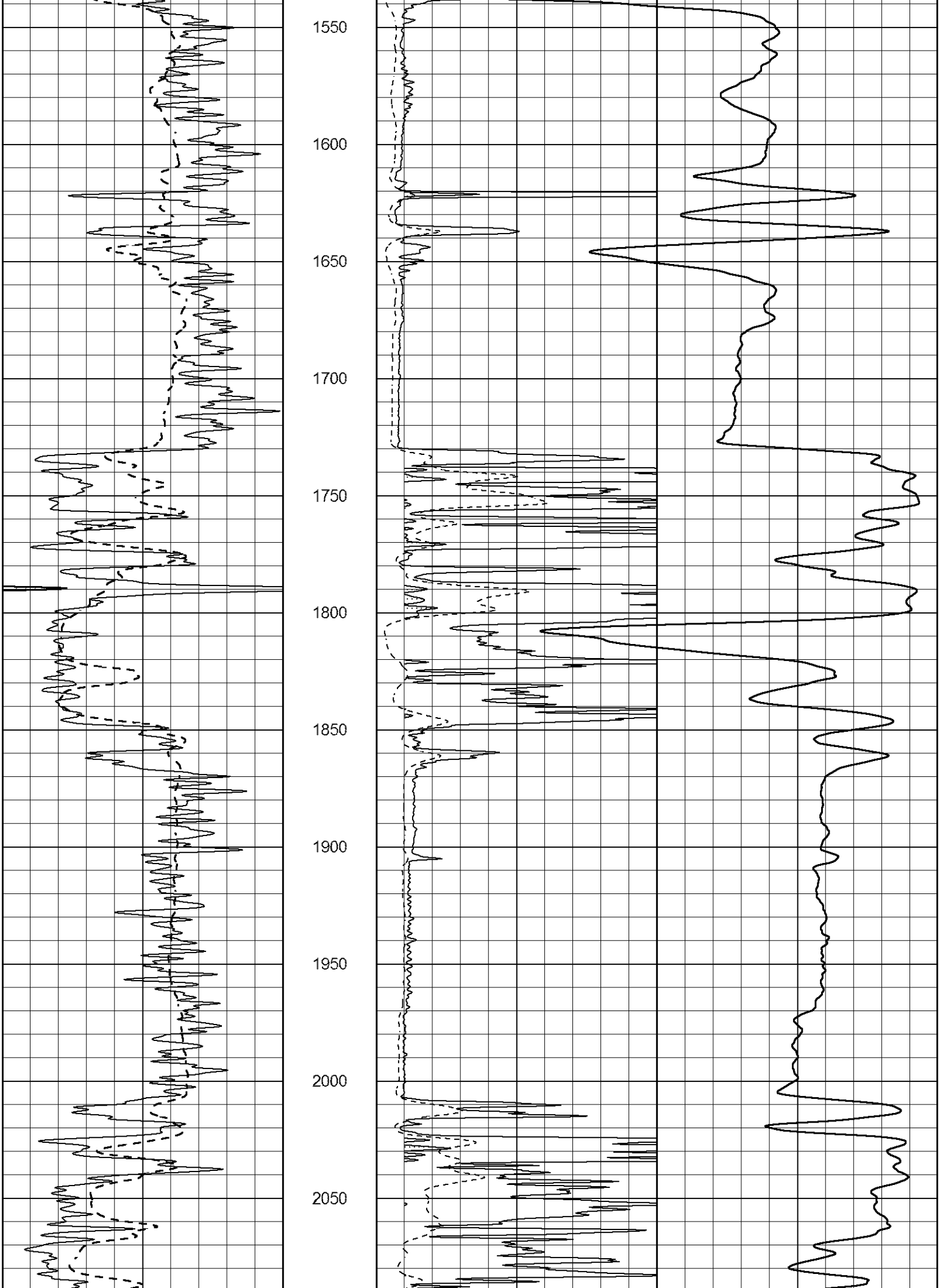
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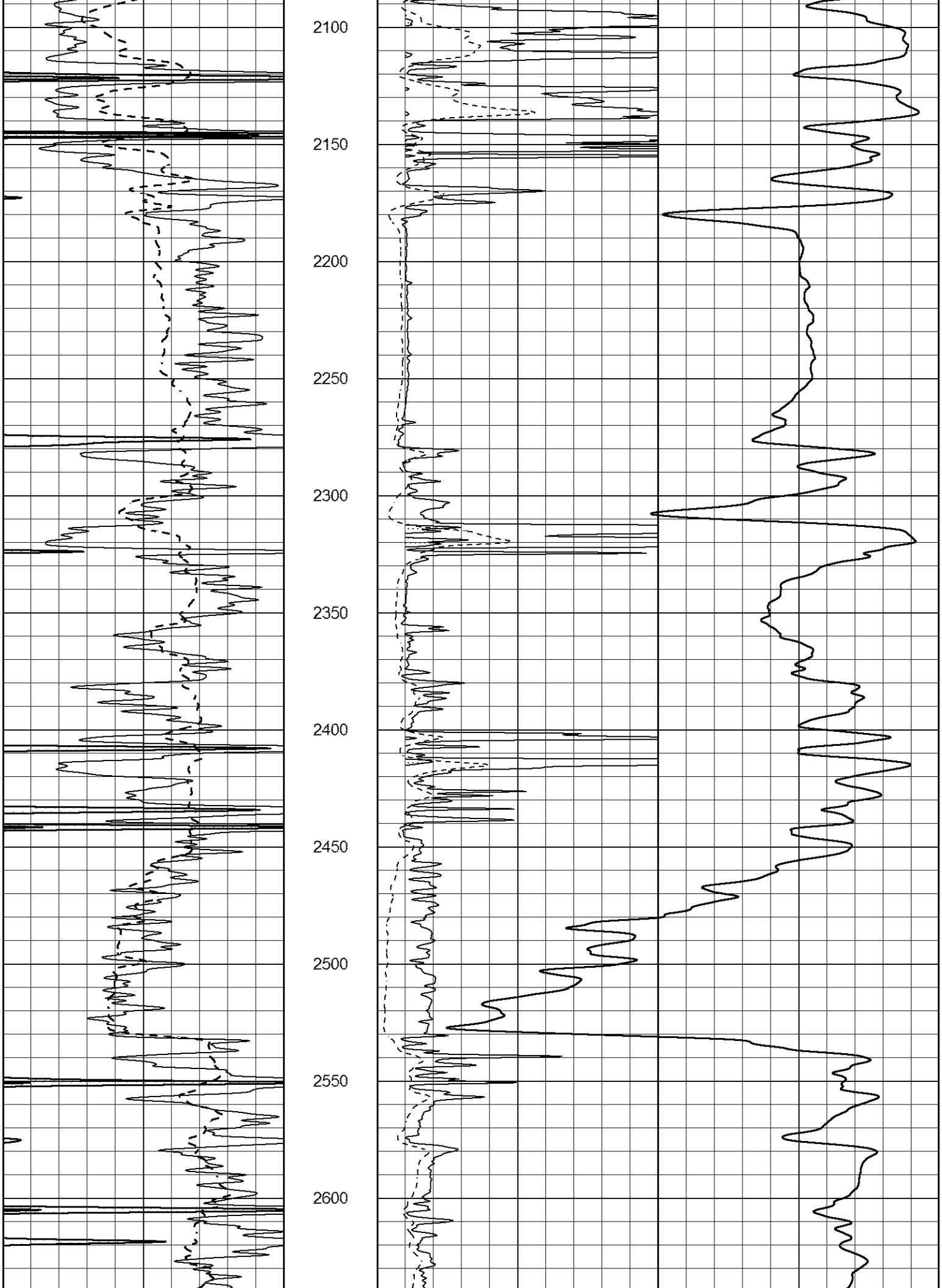
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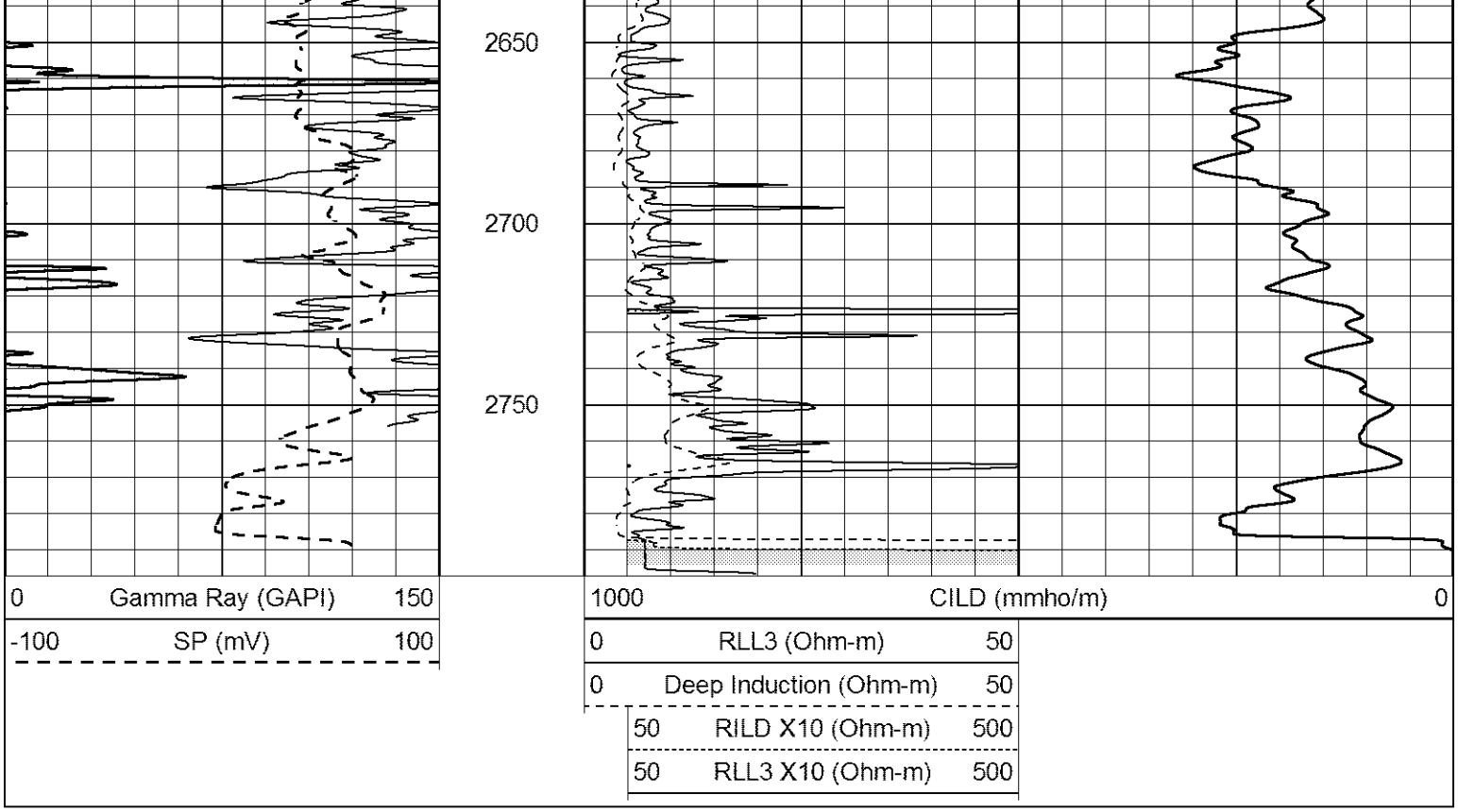
2600



MAIN SECTION

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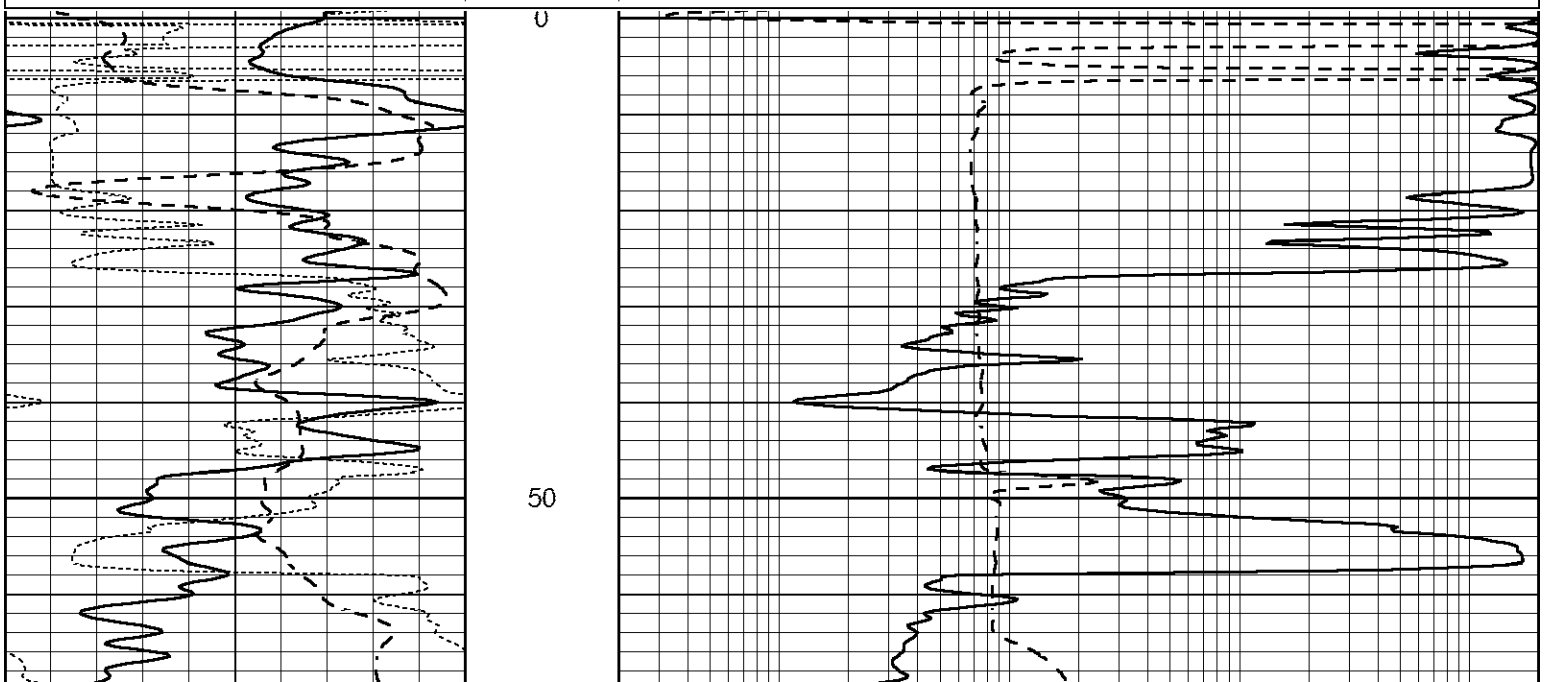
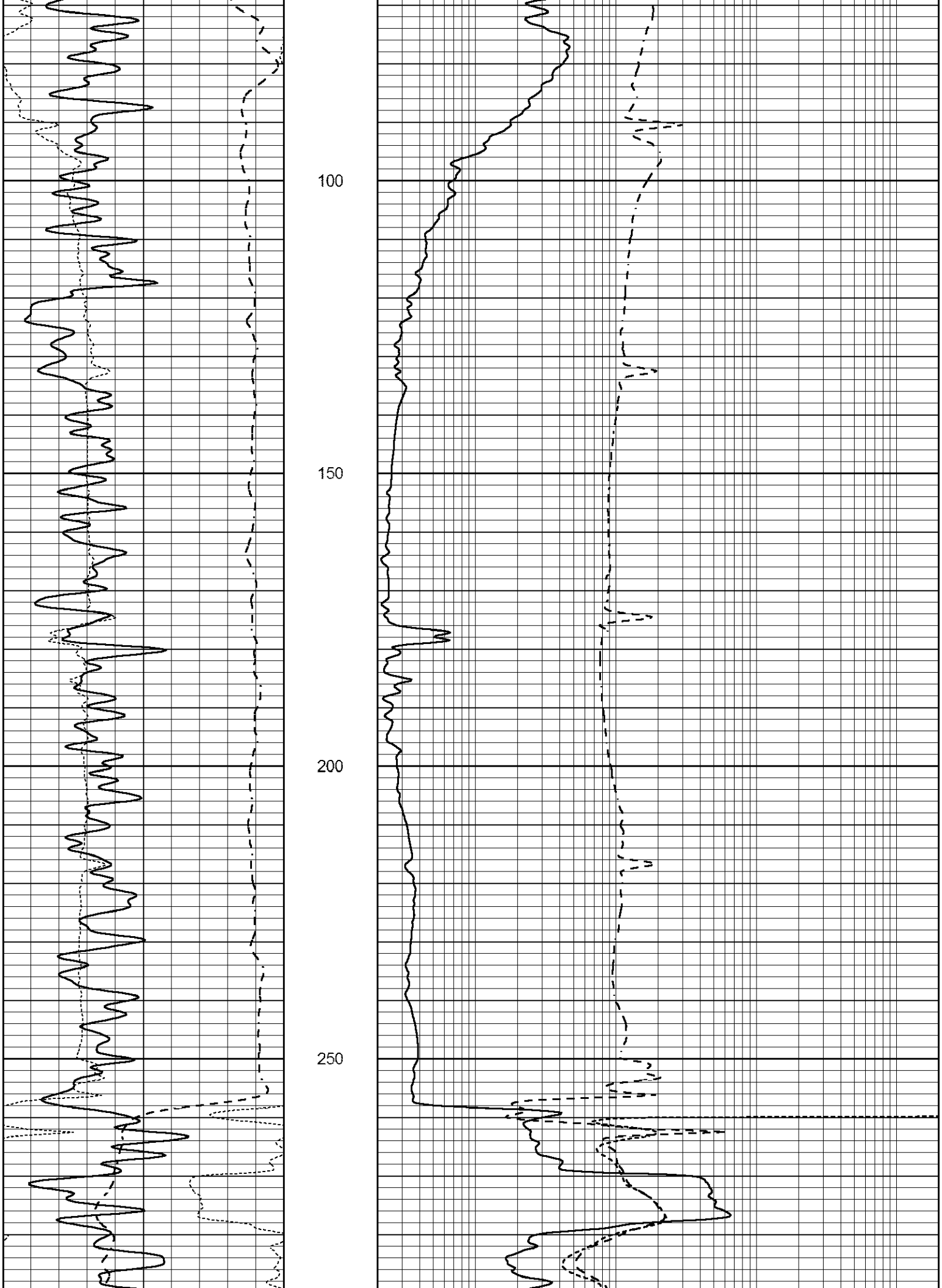
Presentation Format	_dil
Dataset Creation	Tue Aug 28 15:16:36 2018
Charted by	Depth in Feet scaled 1:240

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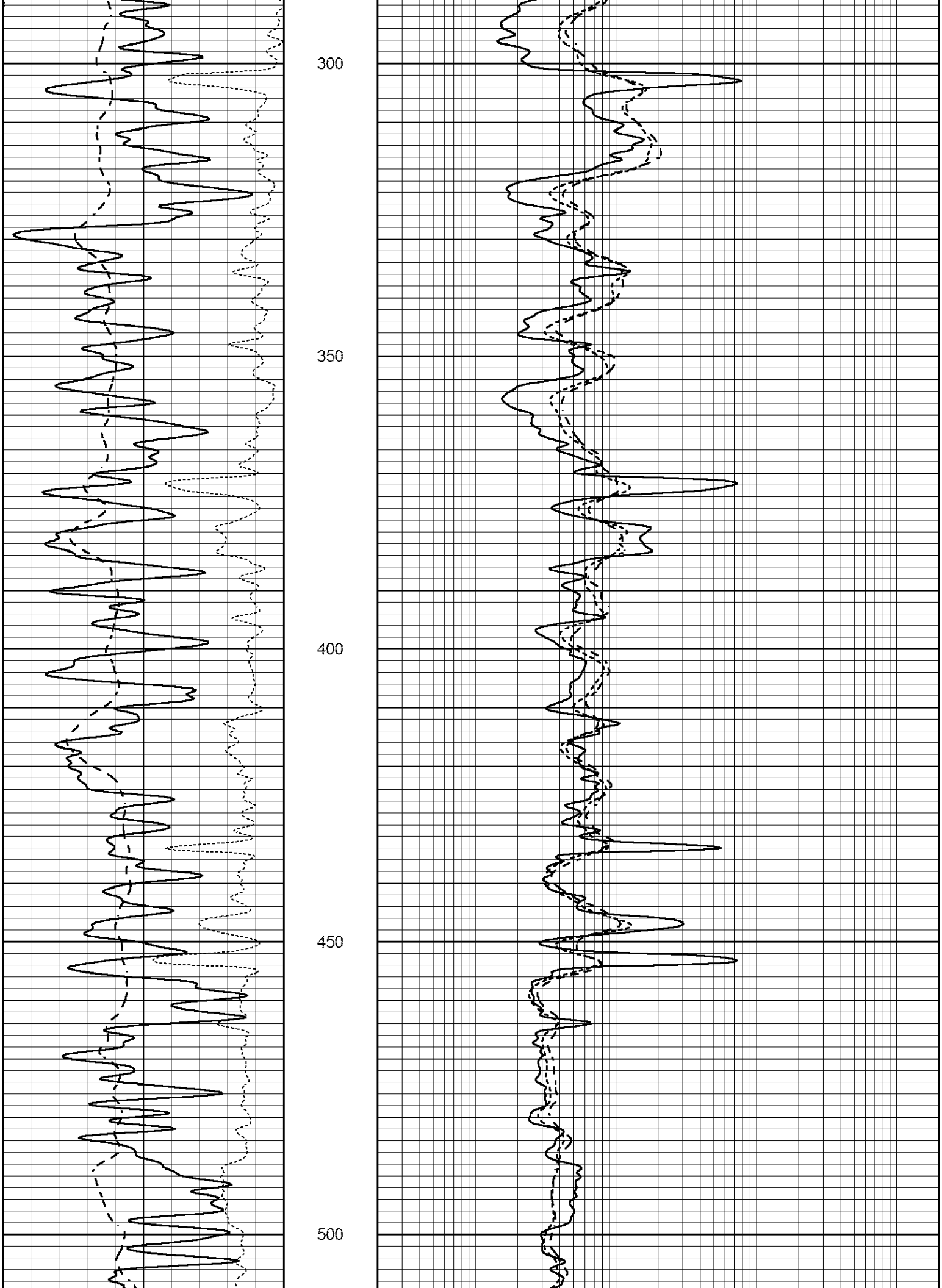
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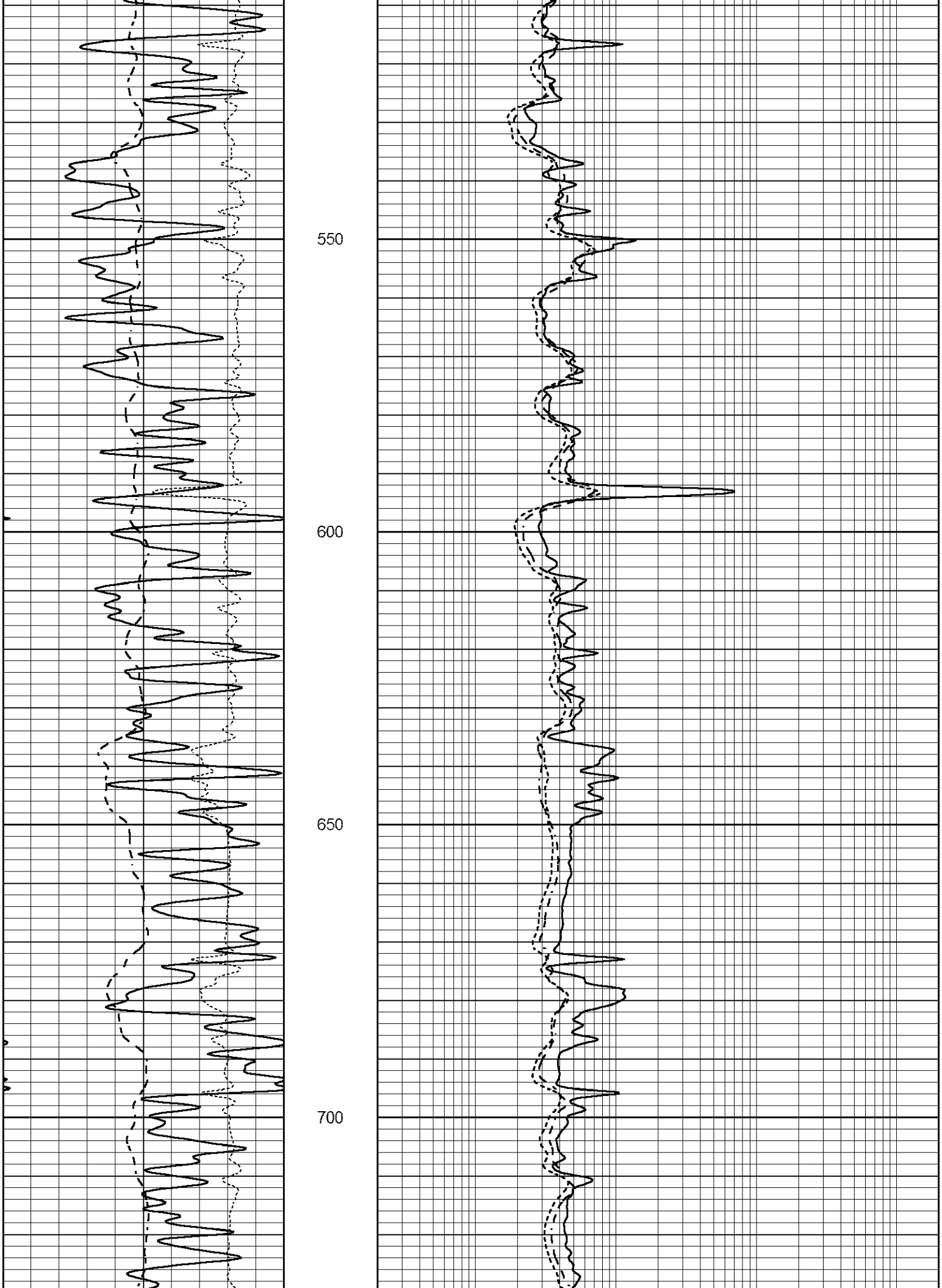
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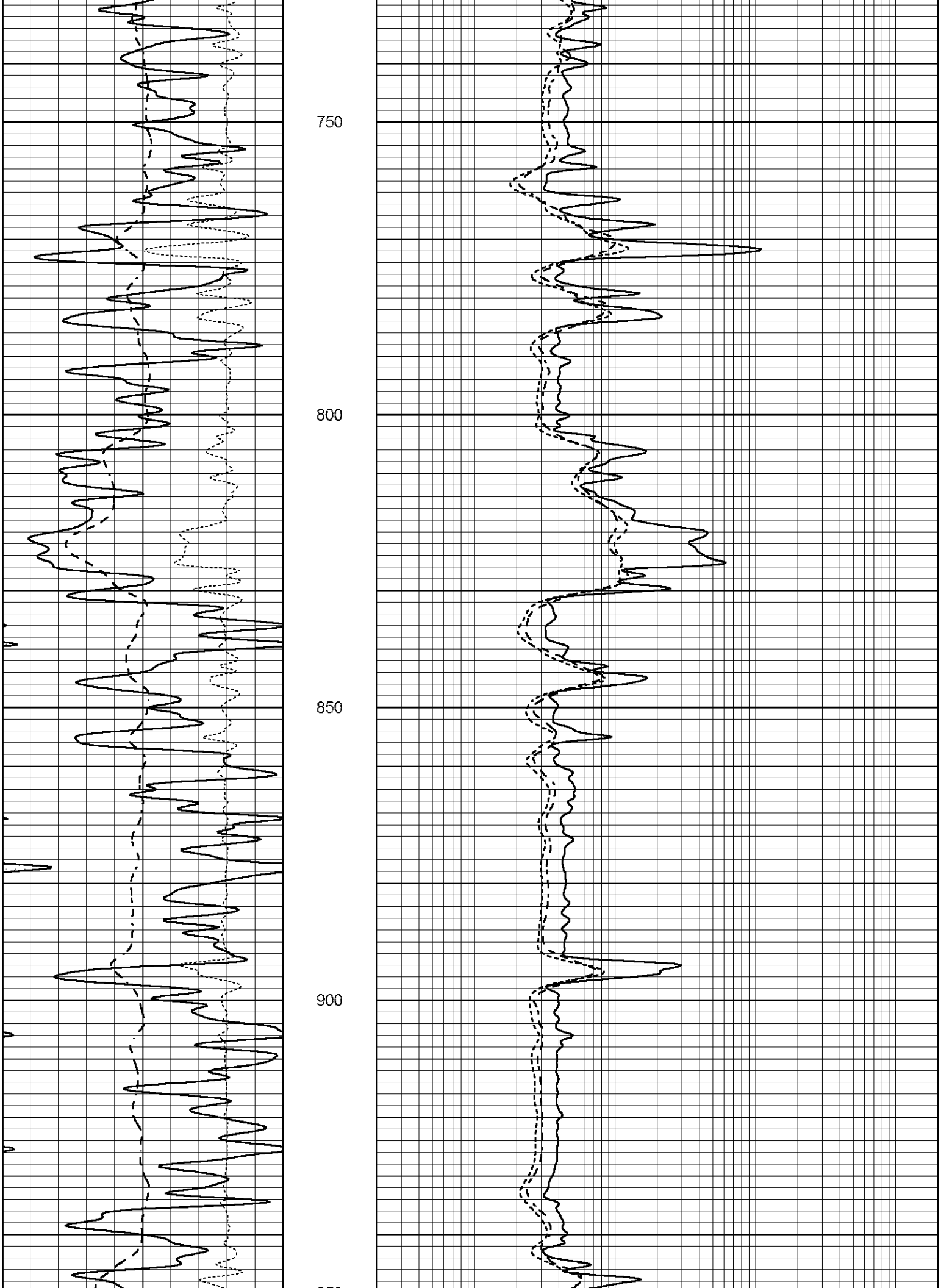
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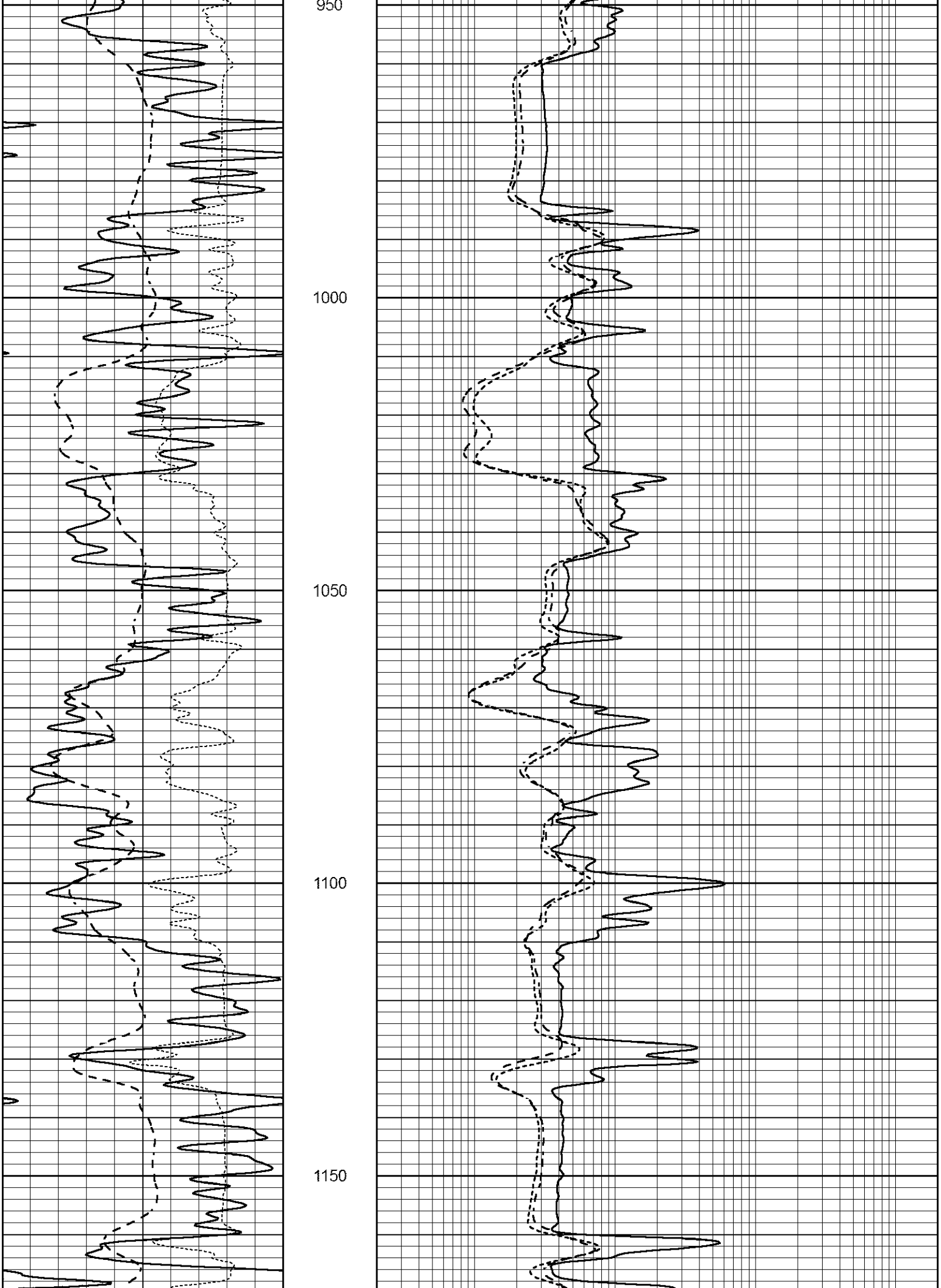
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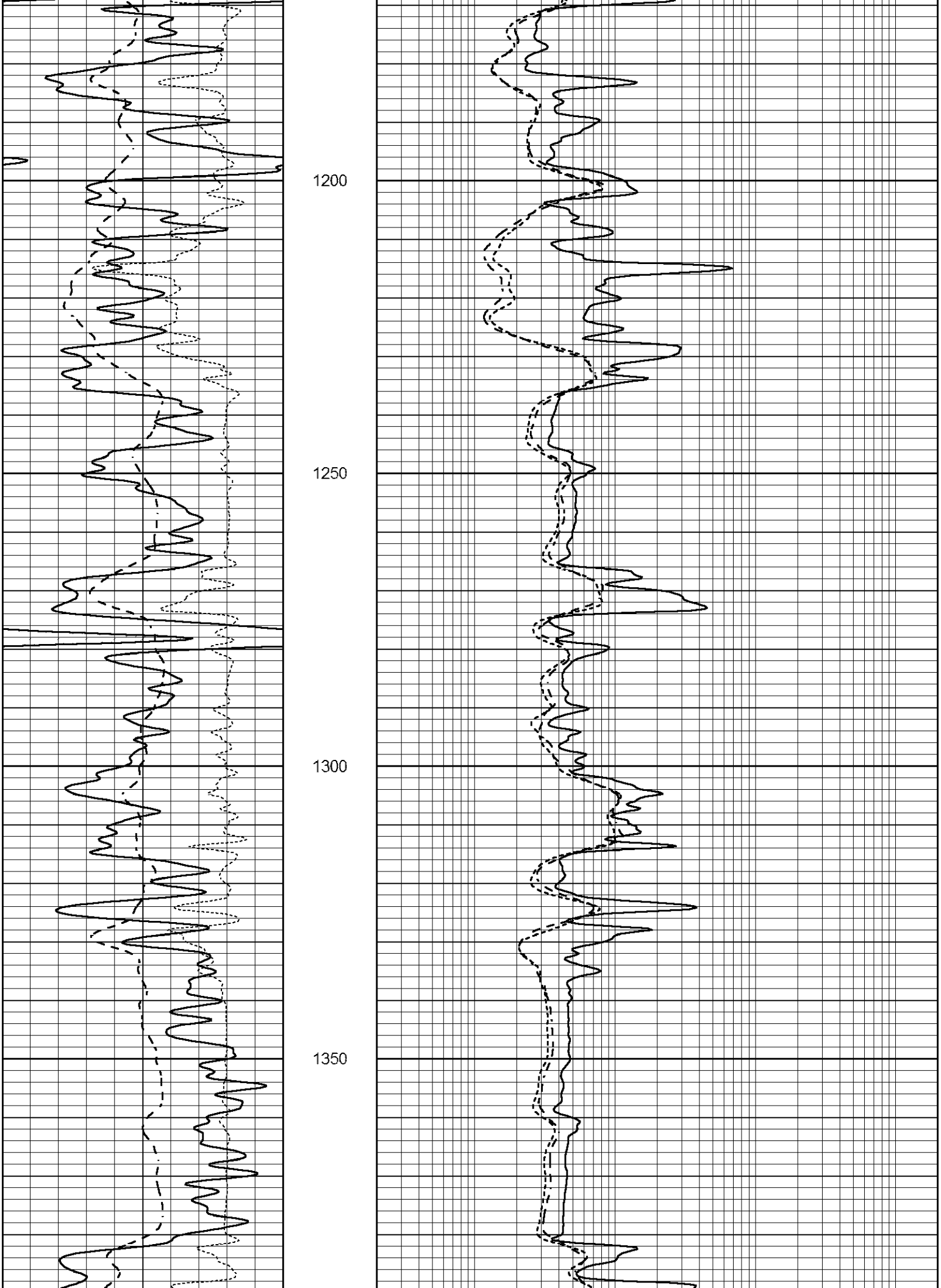
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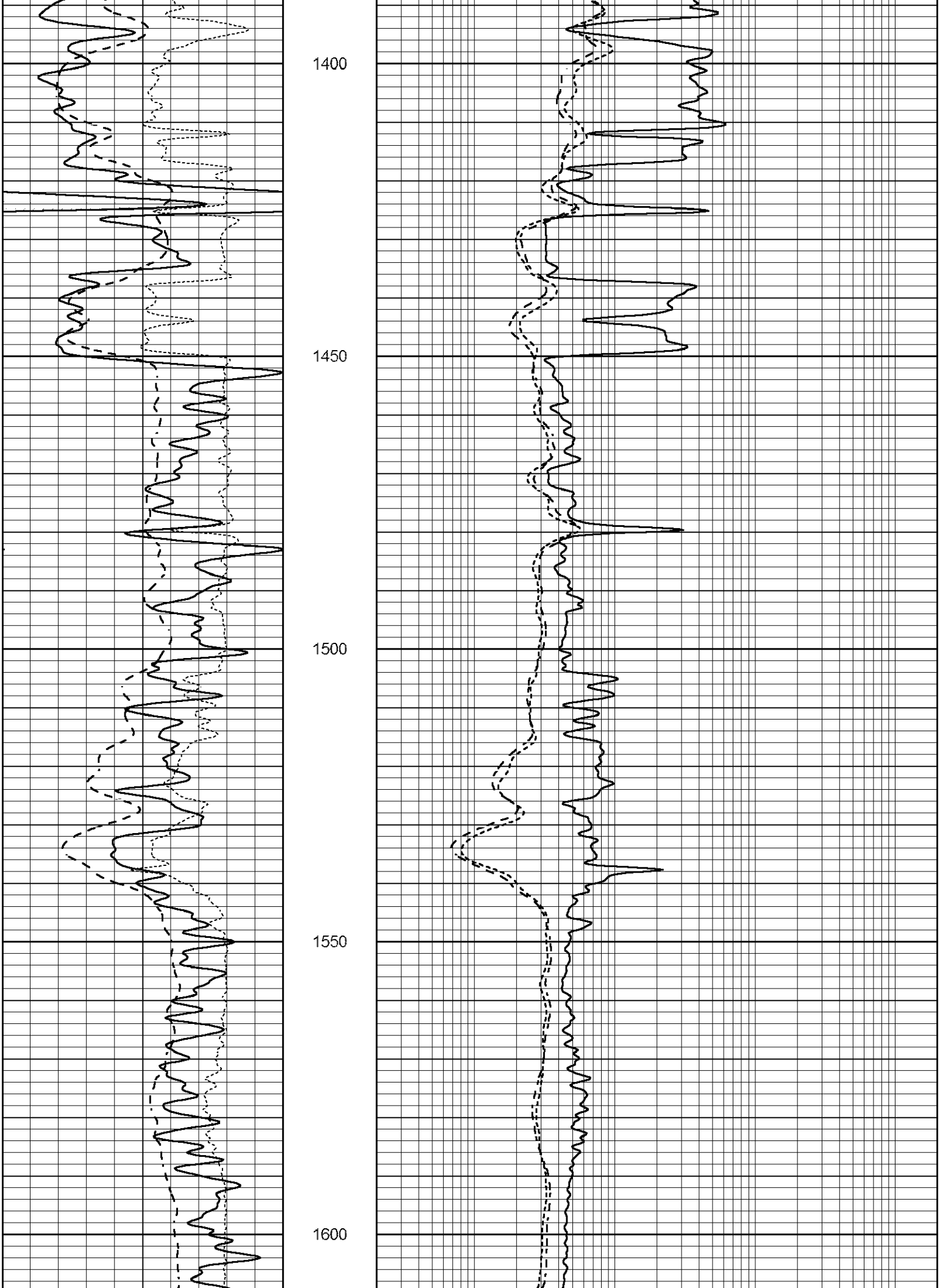
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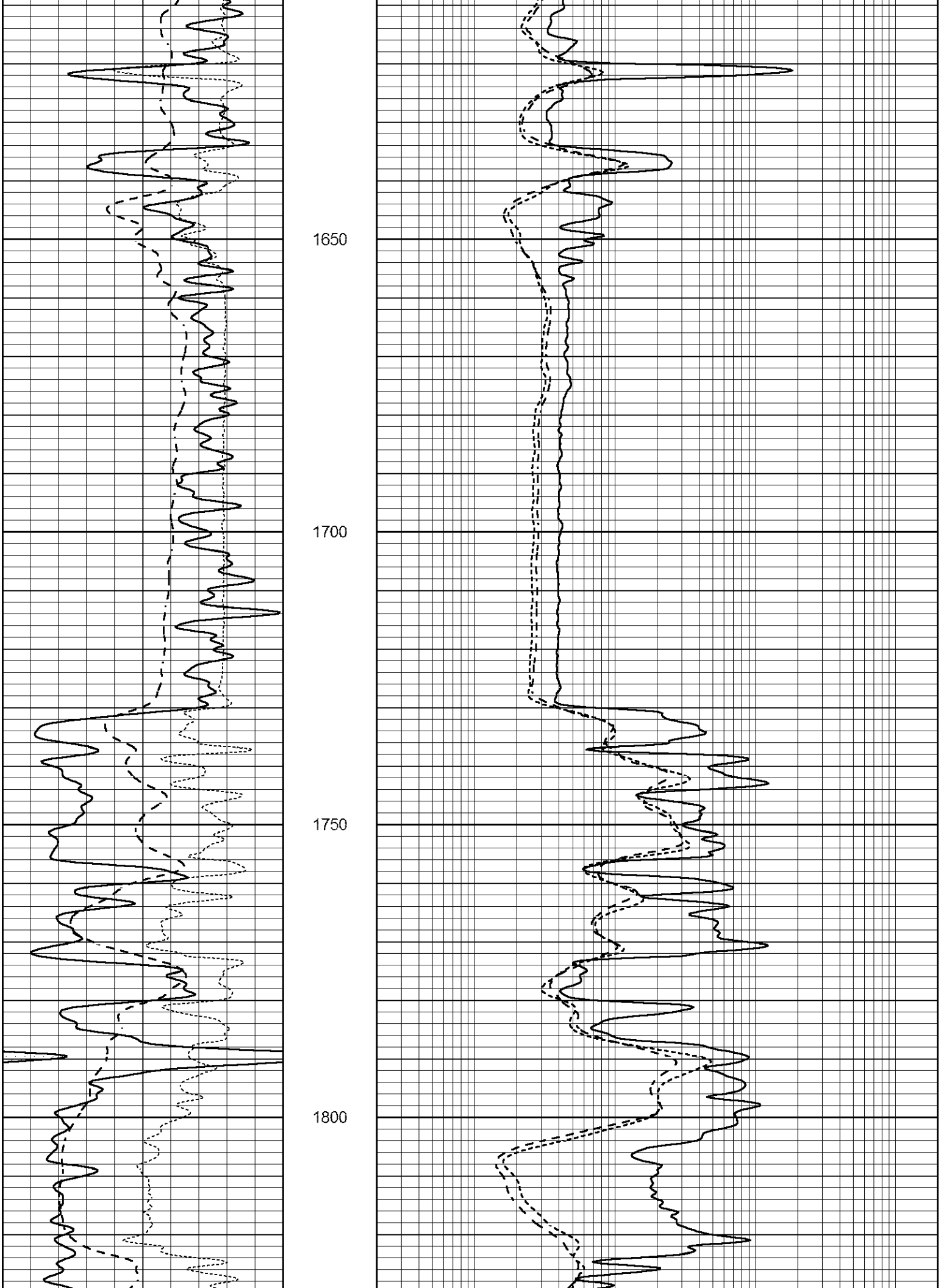
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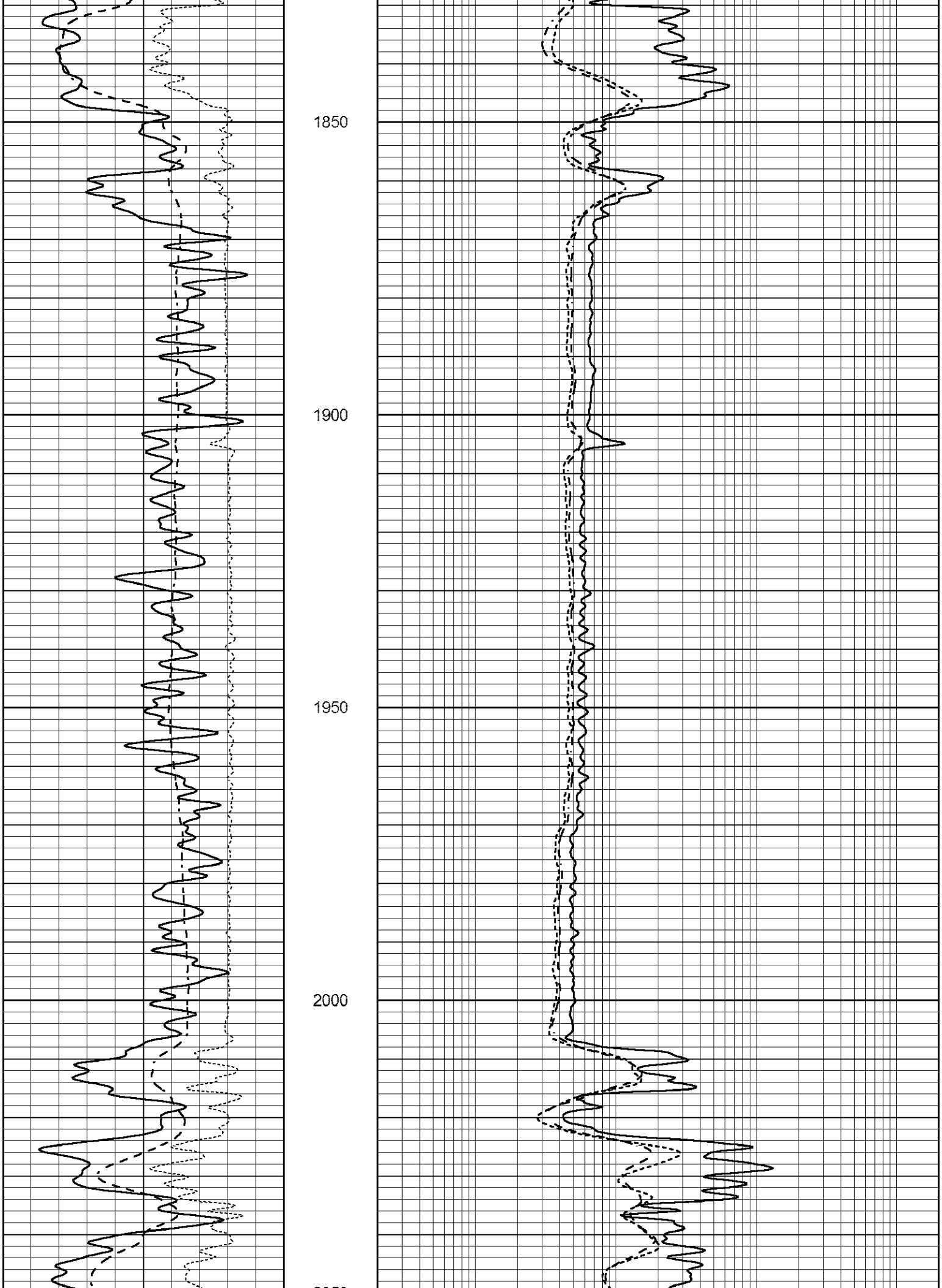
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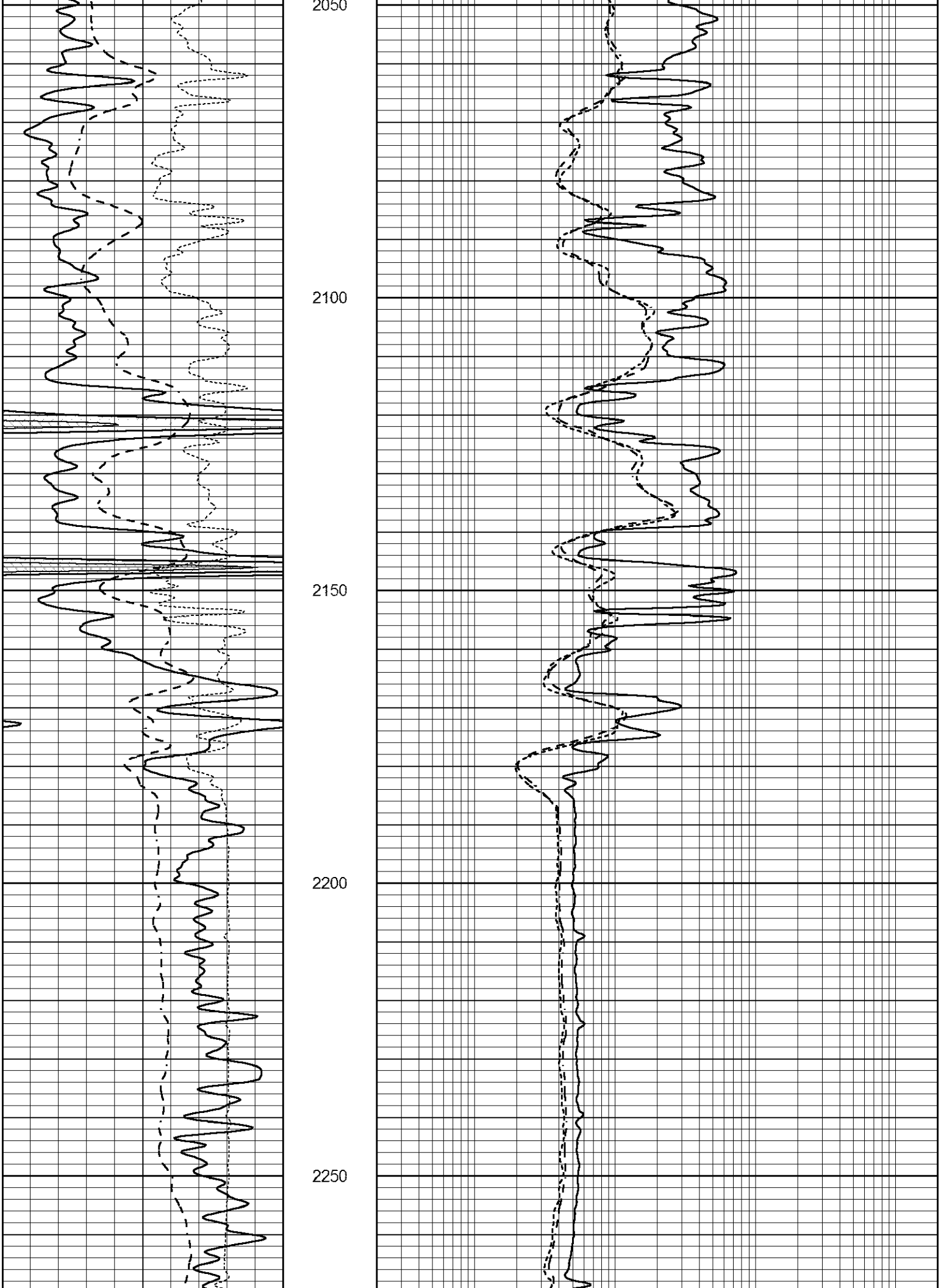
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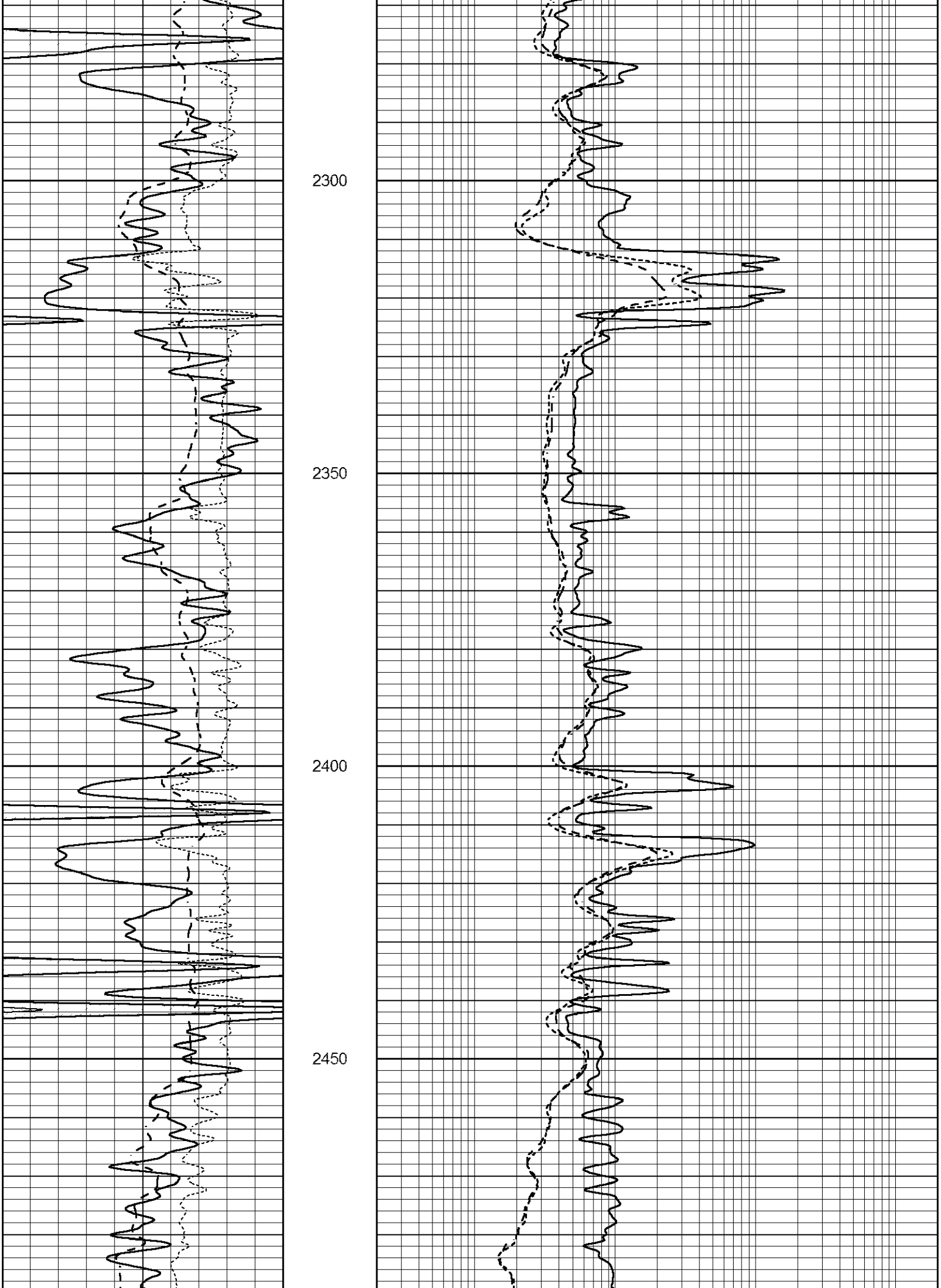
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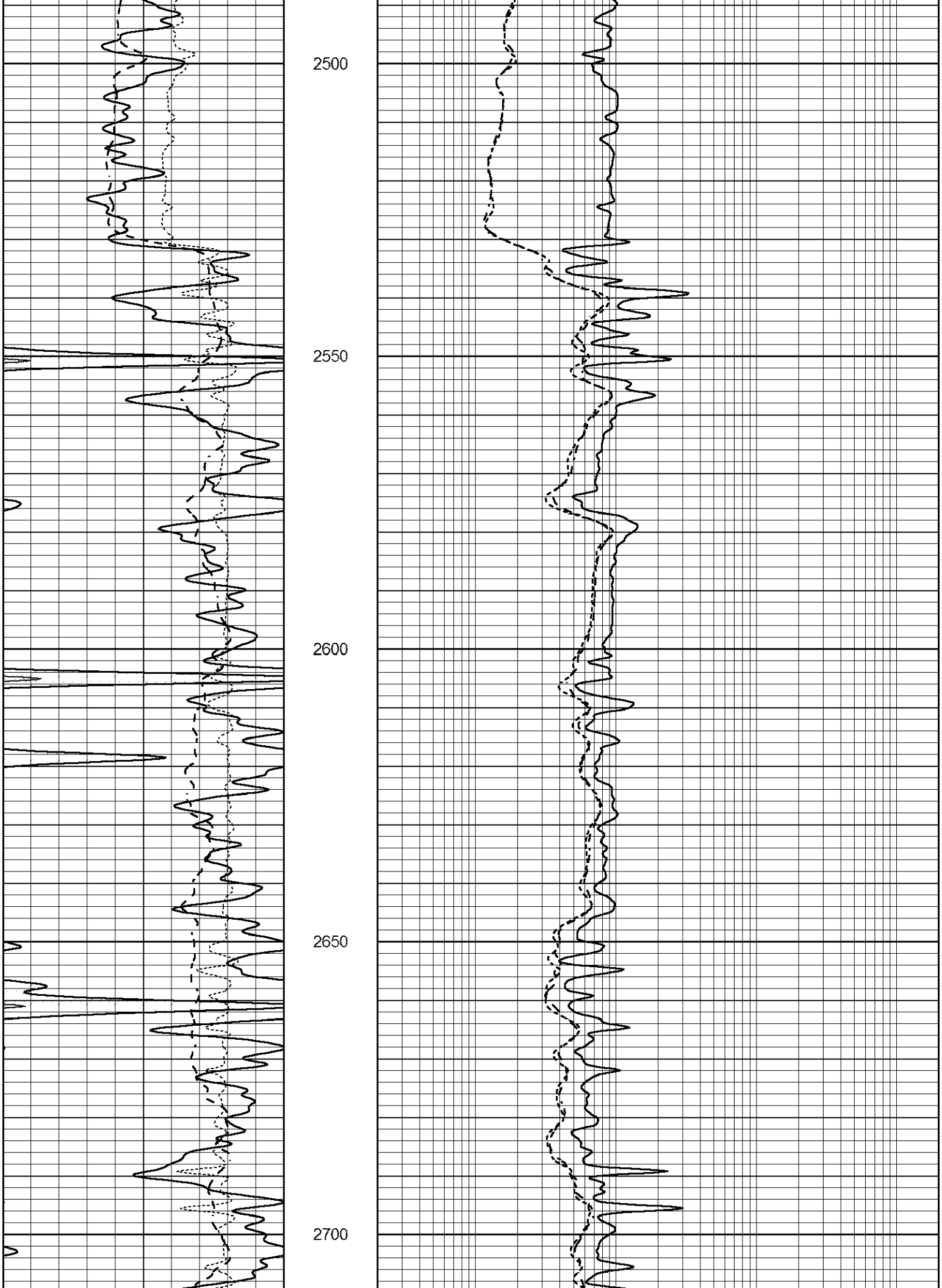
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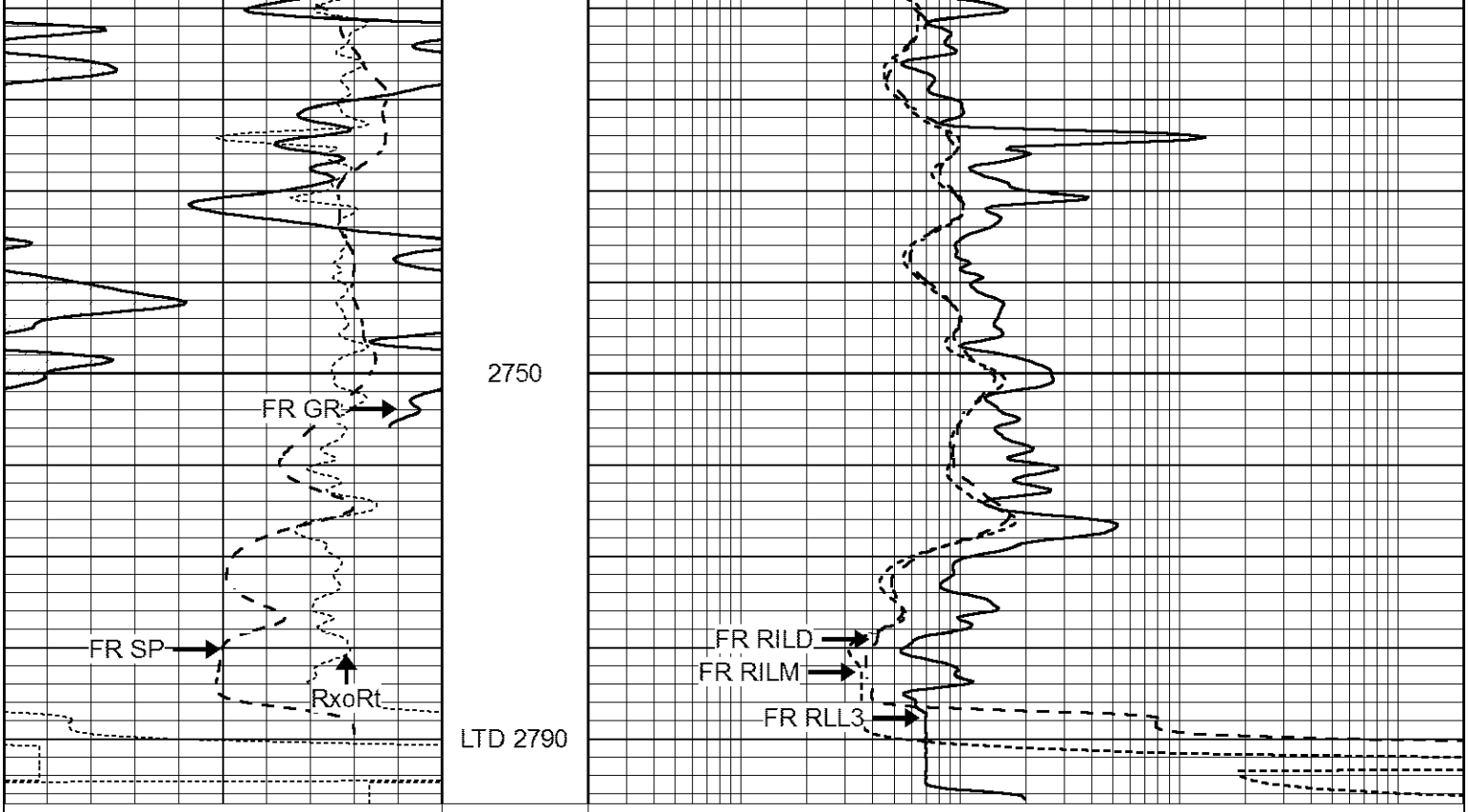


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

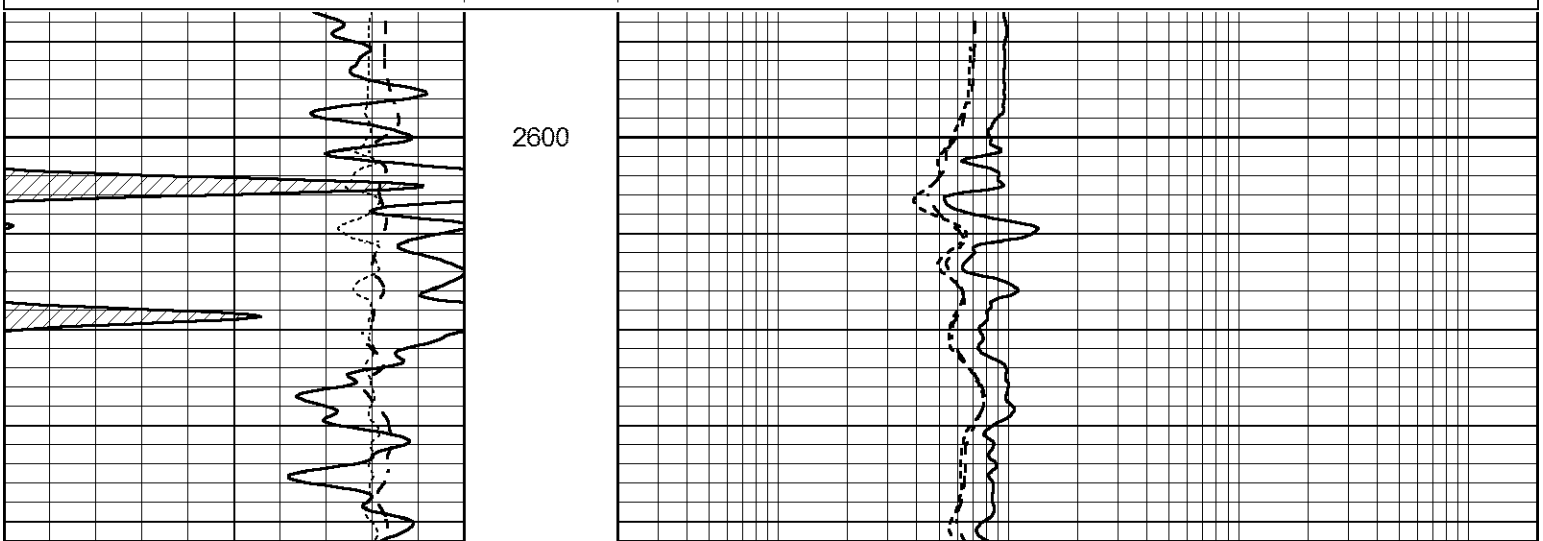
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

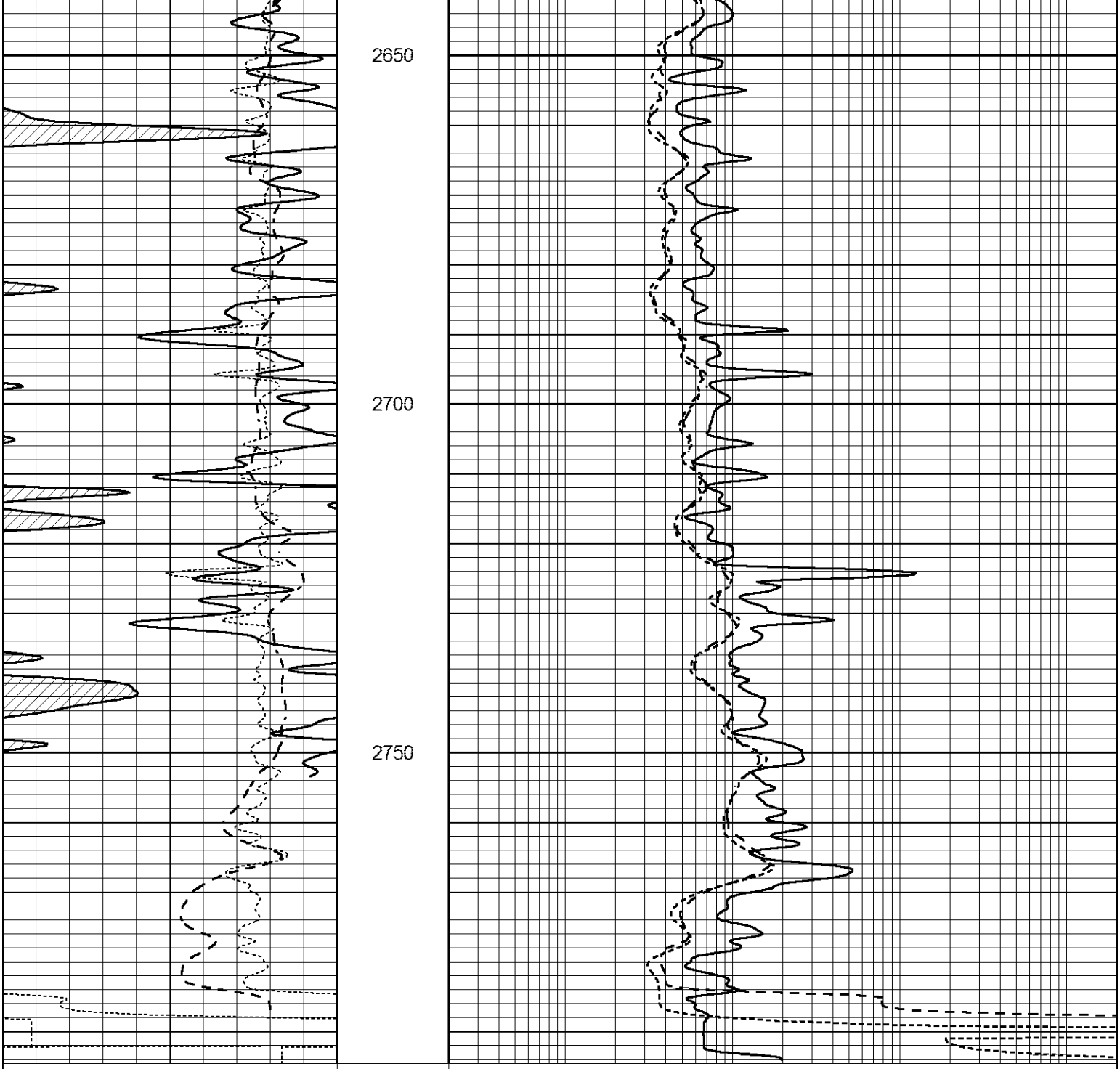
REPEAT SECTION

Database File	3001ddn8.db
Dataset Pathname	pass2.1
Presentation Format	_dil
Dataset Creation	Tue Aug 28 14:21:45 2018
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





Calibration Report

Database File	3001ddn8.db
Dataset Pathname	pass2.1
Dataset Creation	Tue Aug 28 14:21:45 2018

Dual Induction Calibration Report

Serial-Model:	FW1410-55-Probe
Surface Cal Performed:	Mon May 22 14:23:32 2017
Downhole Cal Performed:	Thu Mar 12 09:29:20 2015
After Survey Verification Performed:	Thu Mar 12 09:29:20 2015

Surface Calibration

	Readings	References	Results

Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197

Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
LL3		7.503	V		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	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		

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: Wed Jun 29 11:10:58 2016

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.4300 GAPI/cps