DUAL INDUCTION LOG

Company THOROUGHBRED ASSOCIATES, LLC.
Well MILLER FARMS #32-1
Field
County COMANCHE State KANSAS

Company THOROUGHBRED ASSOCIATES, LLC.

Well MILLER FARMS #32-1

Field

County COMANCHE State KANSAS

Location: API # : 15-033-21791-0000

673' FSL & 1116' FWL

SEC 32 TWP 31S RGE 18W

Other Services
CDL/CNL/PE
MEL/SON

Elevation
K.B. 2151
D.F. 2149
G.L. 2140

Permanent Datum GROUND LEVEL Elevation 2140
Log Measured From KELLY BUSHING 11' A.G.L
Drilling Measured From KELLY BUSHING

Date	11/7/21		
Run Number	ONE		
Depth Driller	6060		
Depth Logger	6070		
Bottom Logged Interval	6068		
Top Log Interval	00		
Casing Driller	8 5/8" @ 681		
Casing Logger	681		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5500 PPM	
Density / Viscosity	9.3/50		
pH / Fluid Loss	8.5/11.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.85 @ 65F		
Rmf @ Meas. Temp	.63 @ 65F		
Rmc @ Meas. Temp	1.02 @ 65F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.41 @ 134F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	134F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	AARON YOUNG		

<<< Fold Here >>>

Comments

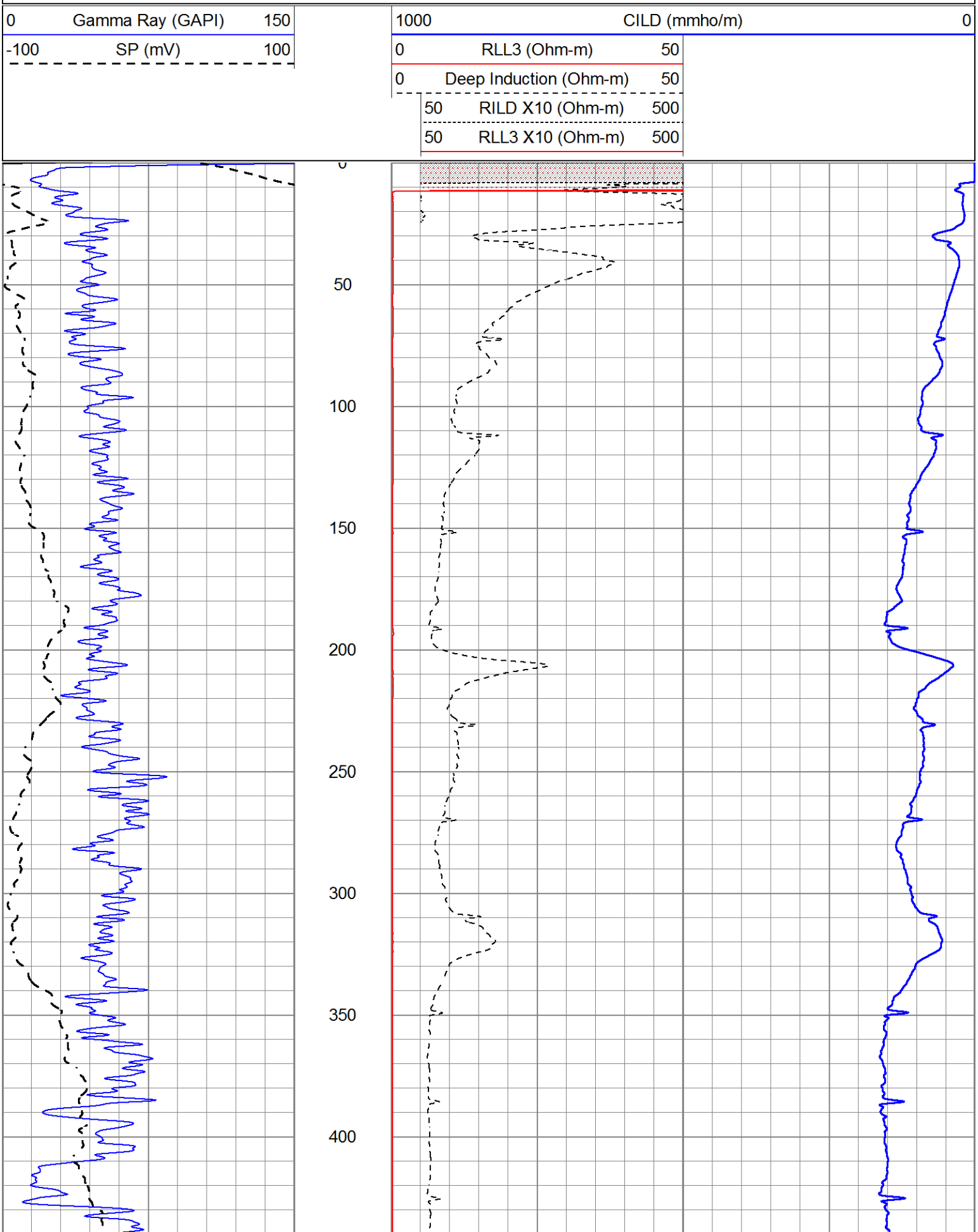
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395

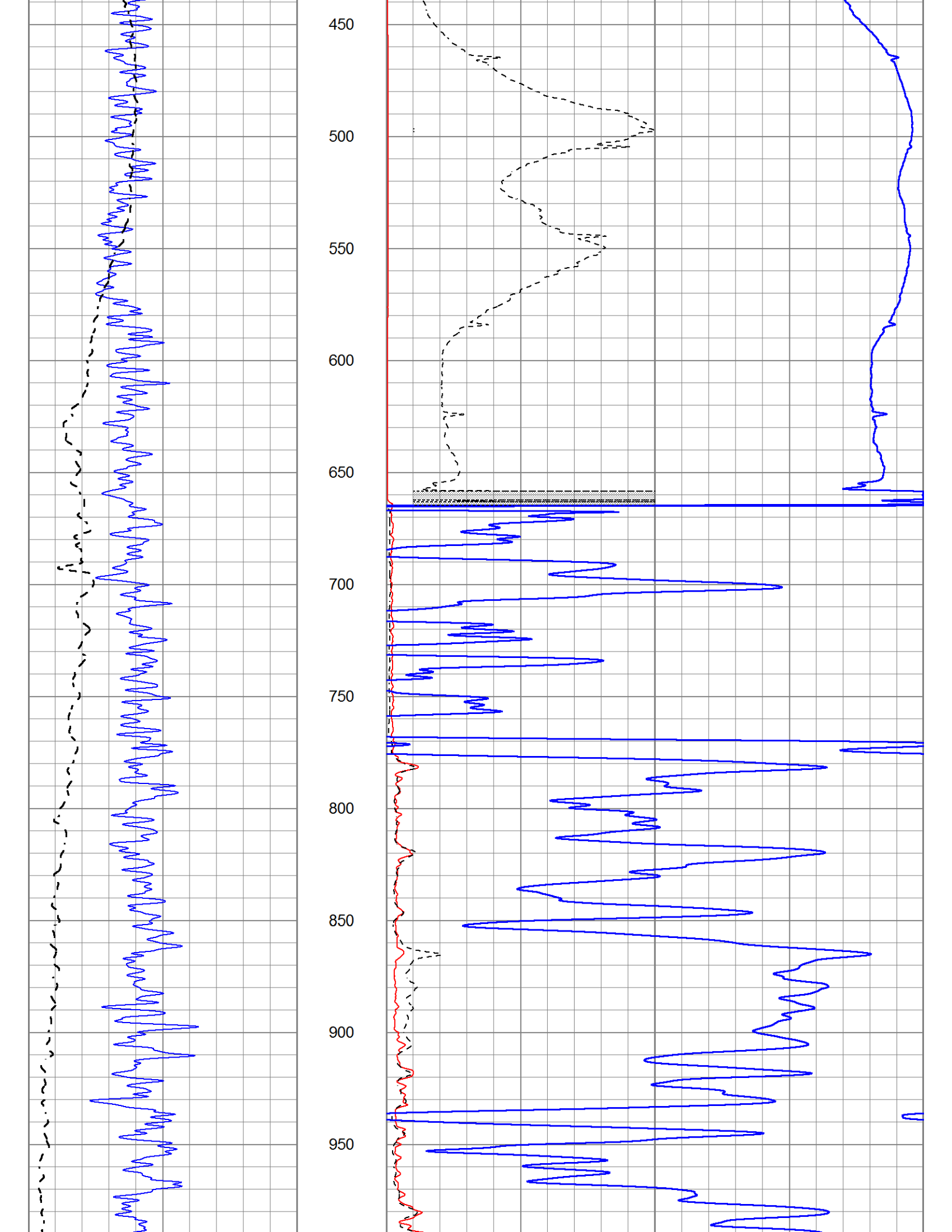
DIRECTIONS

COLDWATER, KS. - 2 NORTH TO AVE. F - 1 EAST - 3/4 SOUTH - WEST INTO

MAIN SECTION

Database File	5874pe.db
Dataset Pathname	pass3.2
Presentation Format	_dil2
Dataset Creation	Mon Nov 08 00:48:00 2021
Charted by	Depth in Feet scaled 1:600

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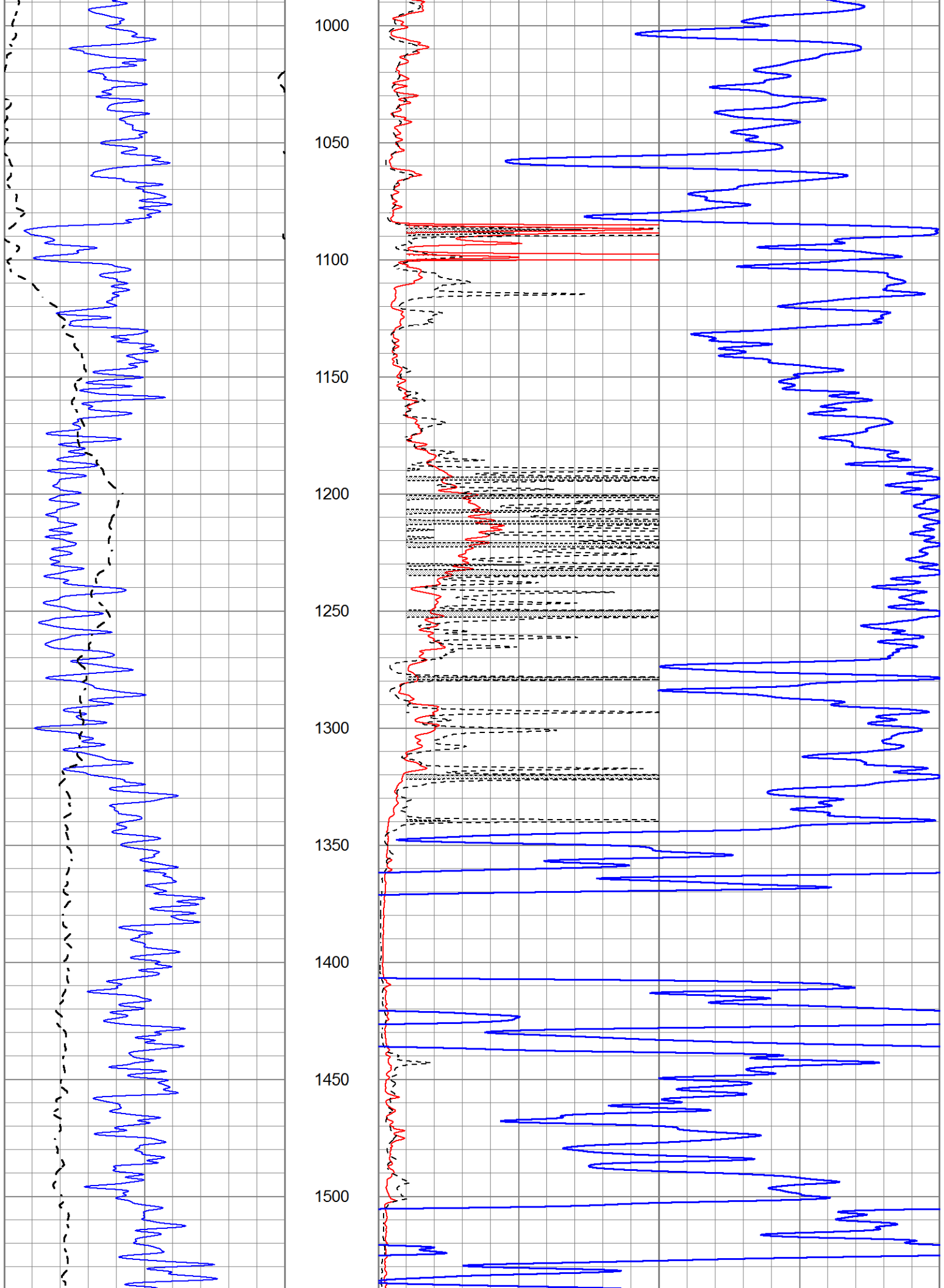
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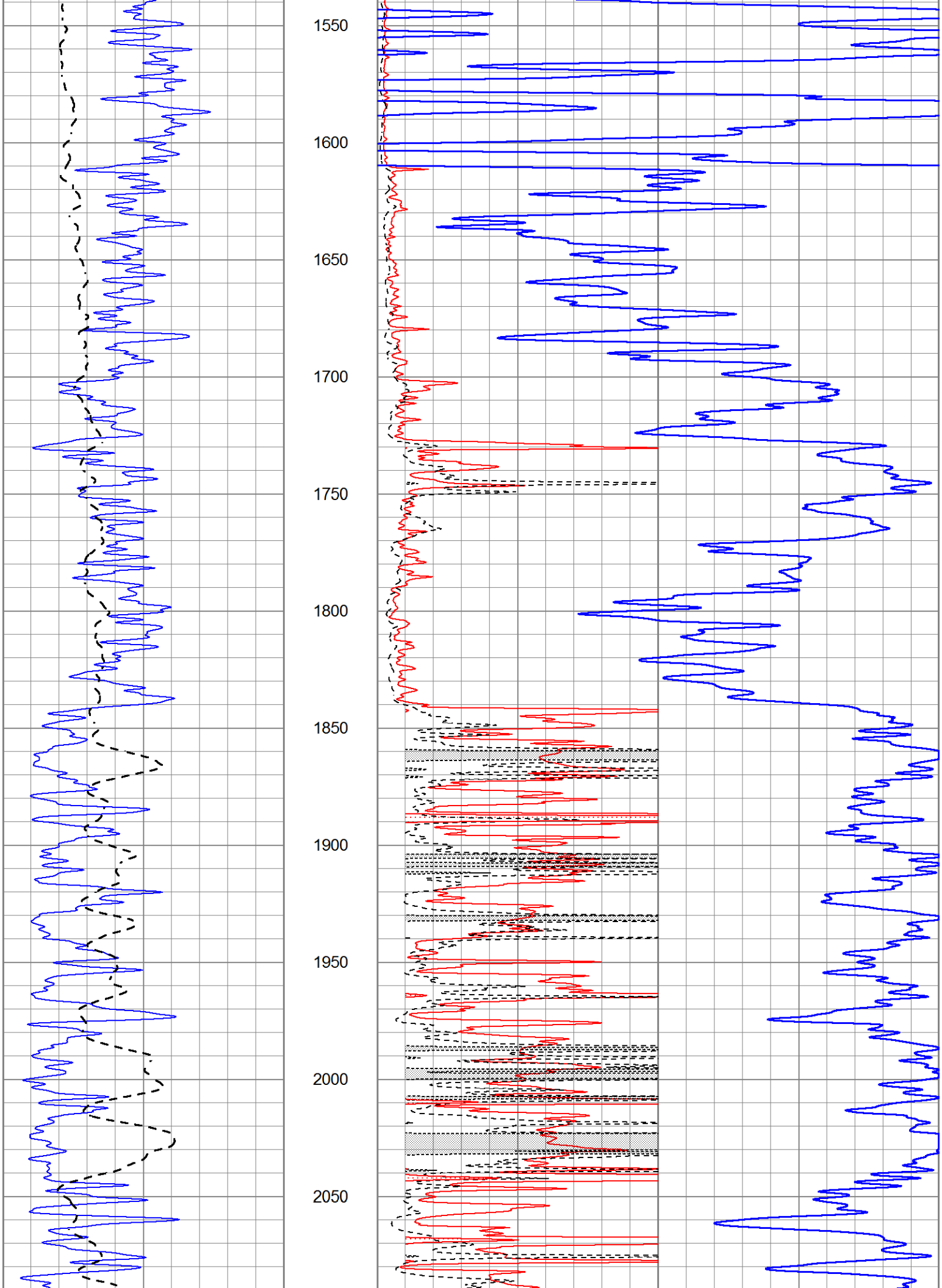
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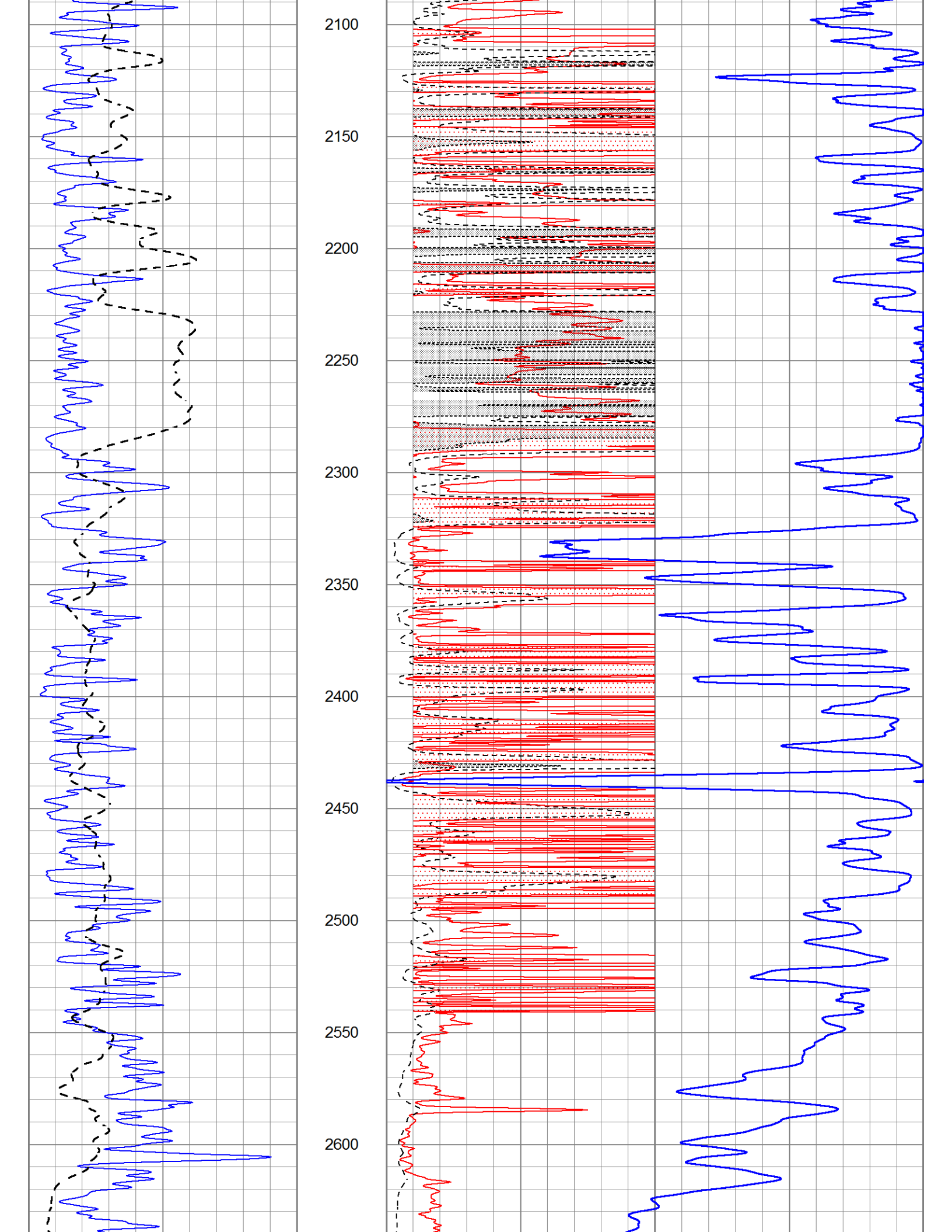
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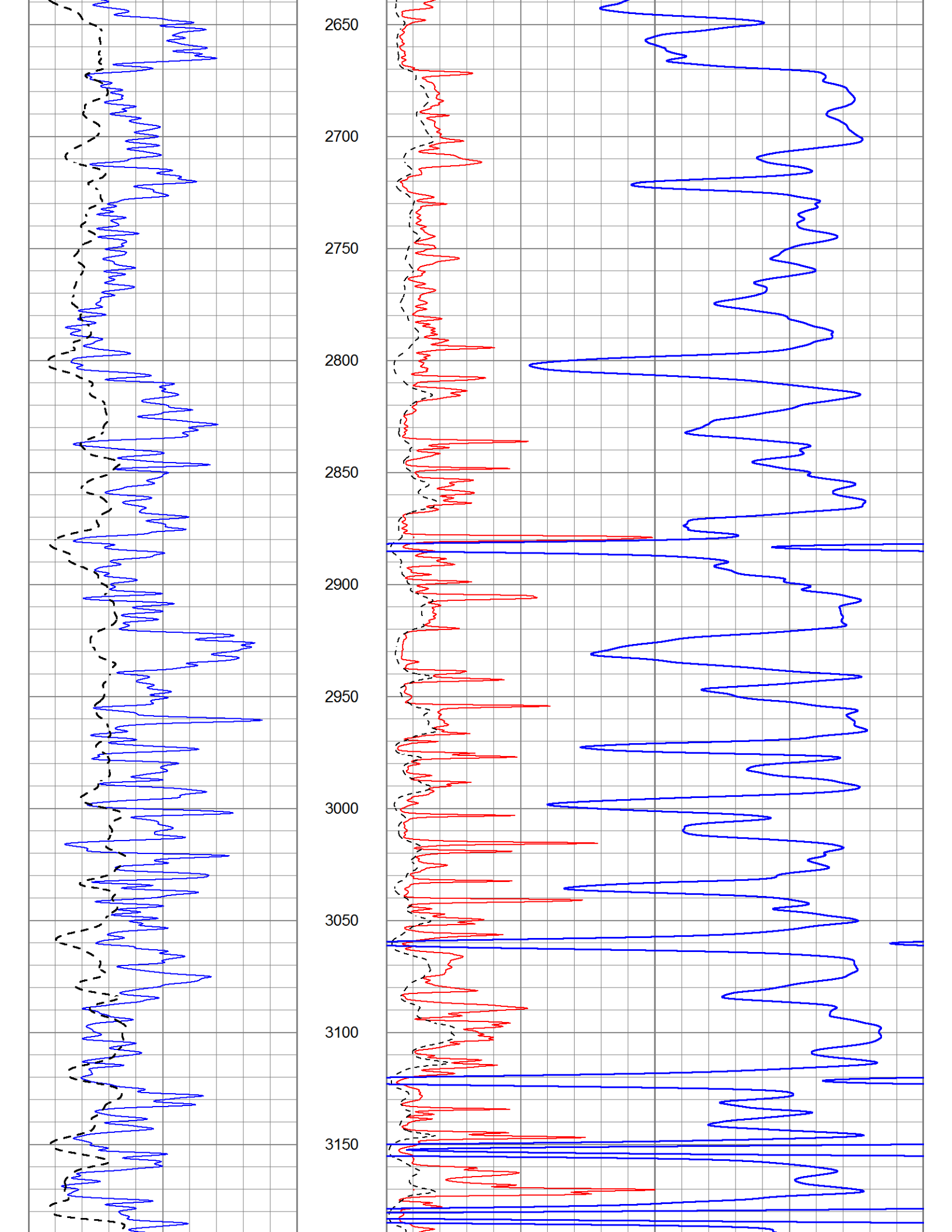
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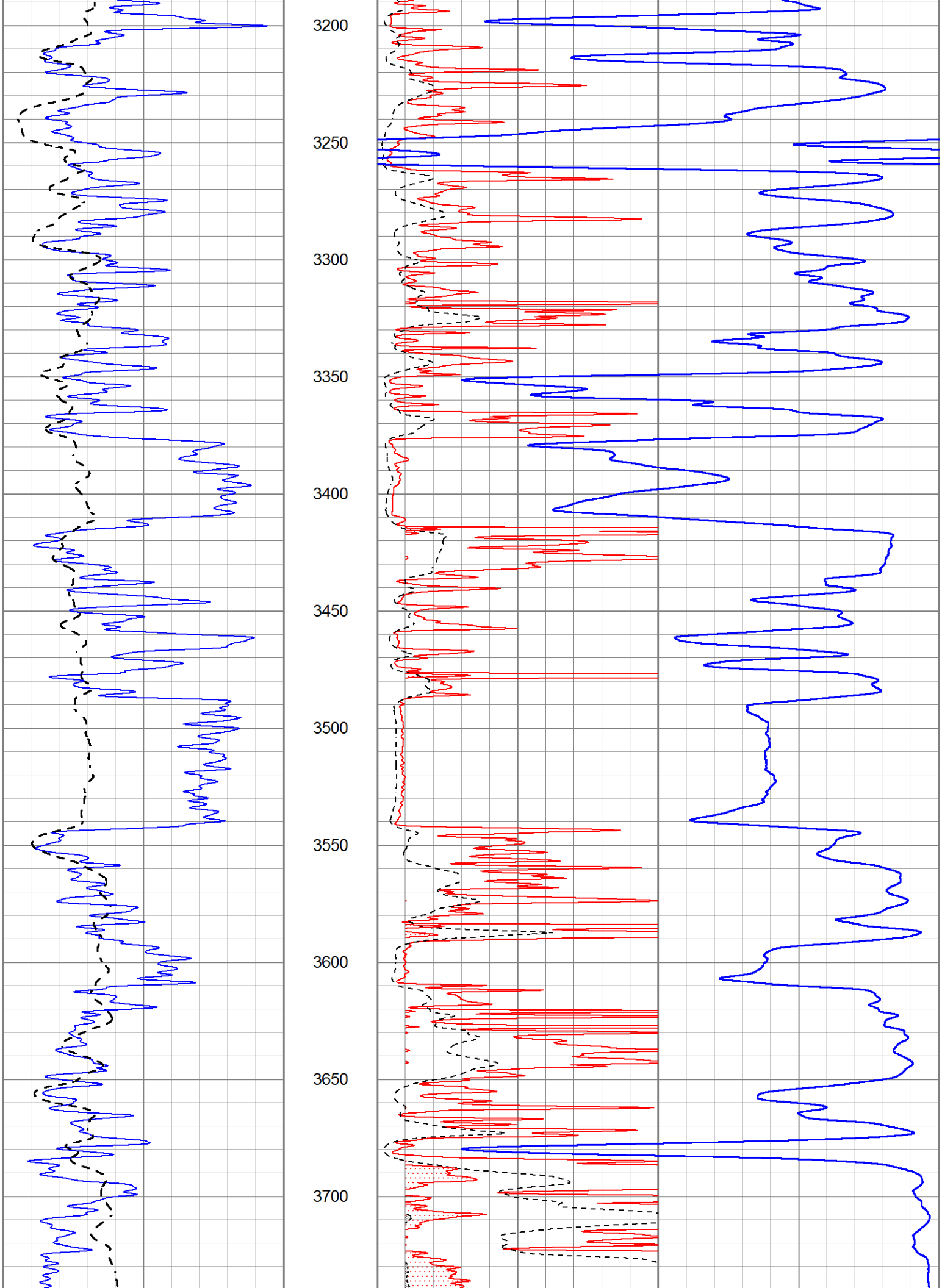
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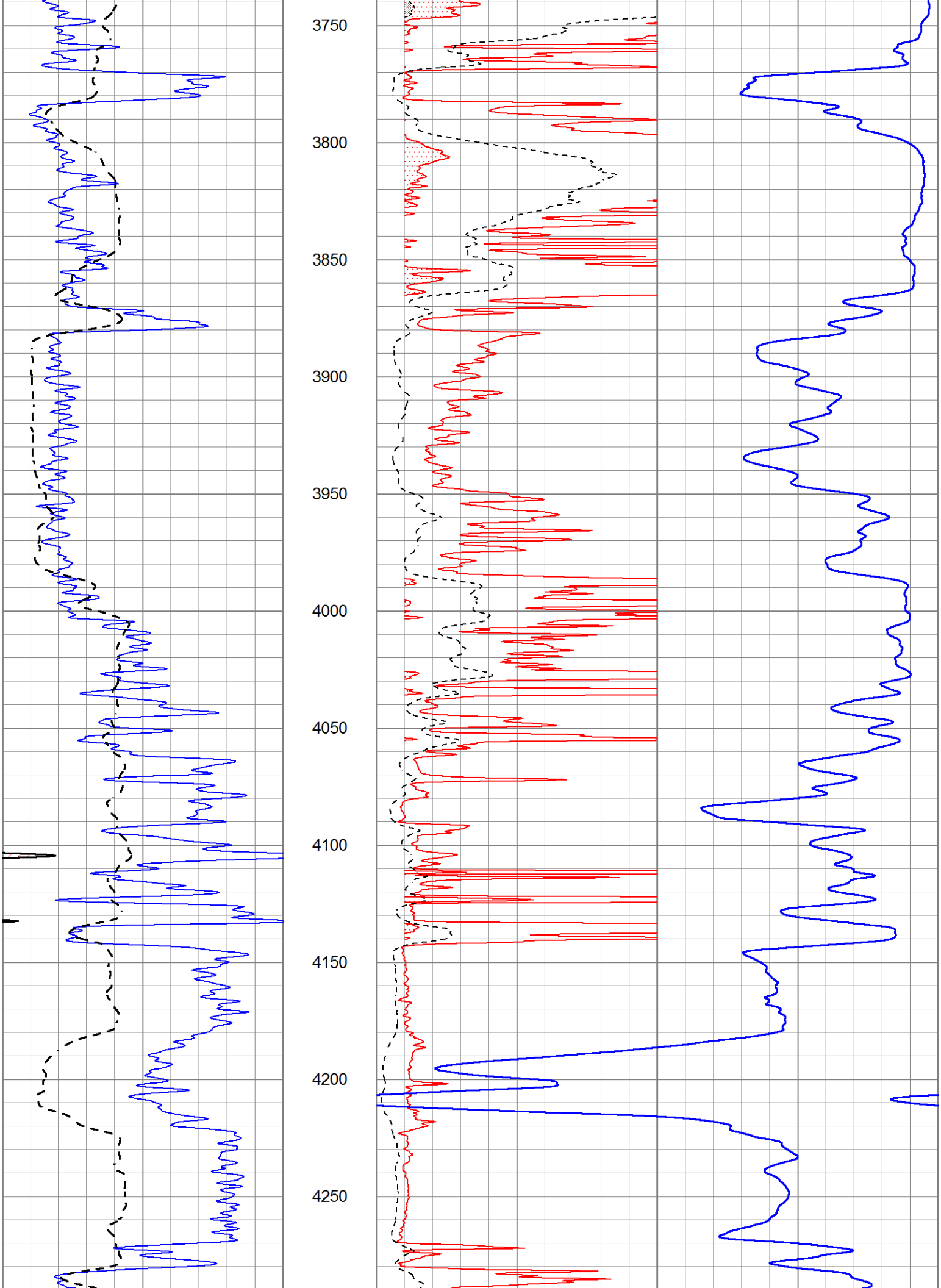
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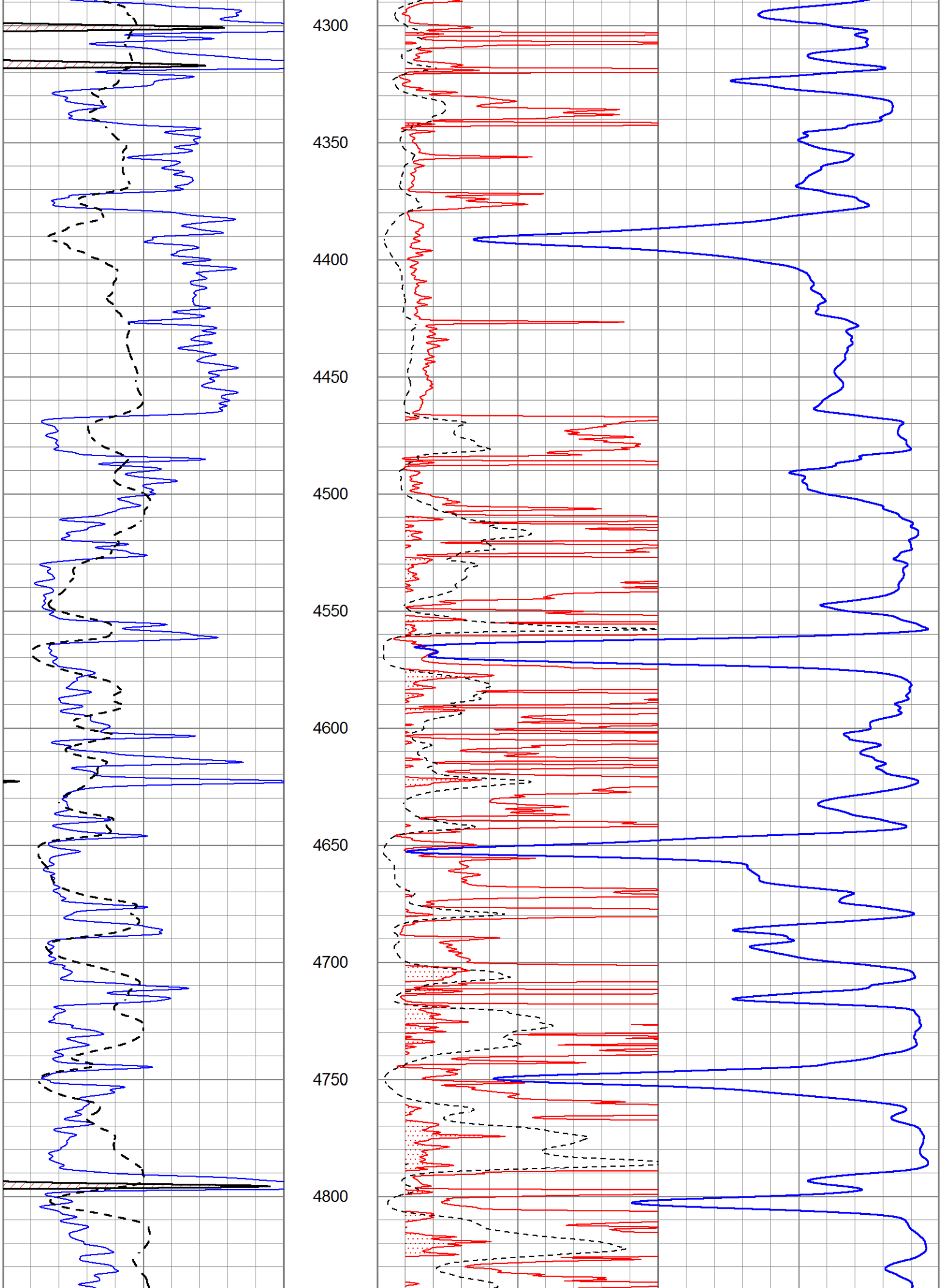
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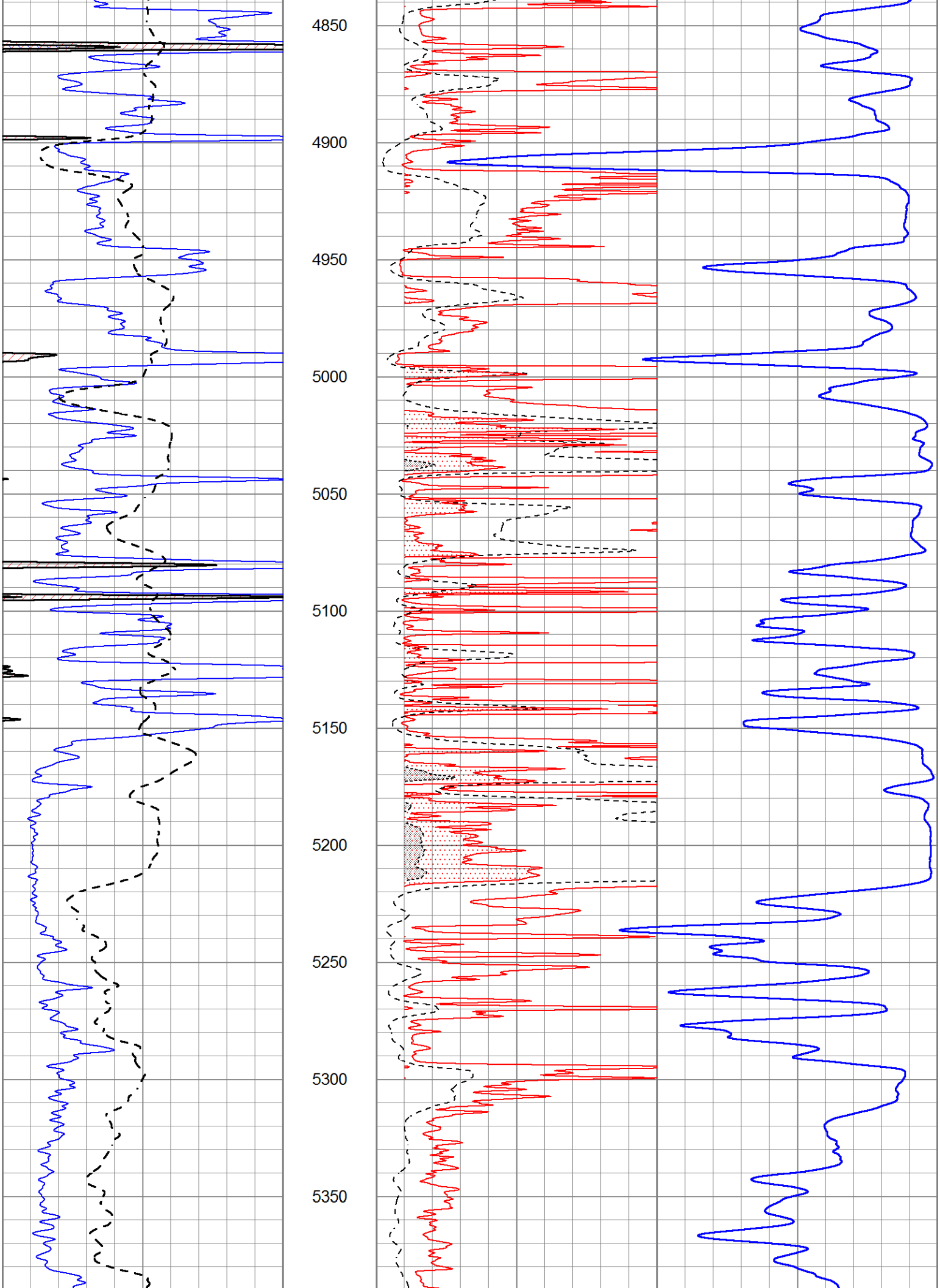
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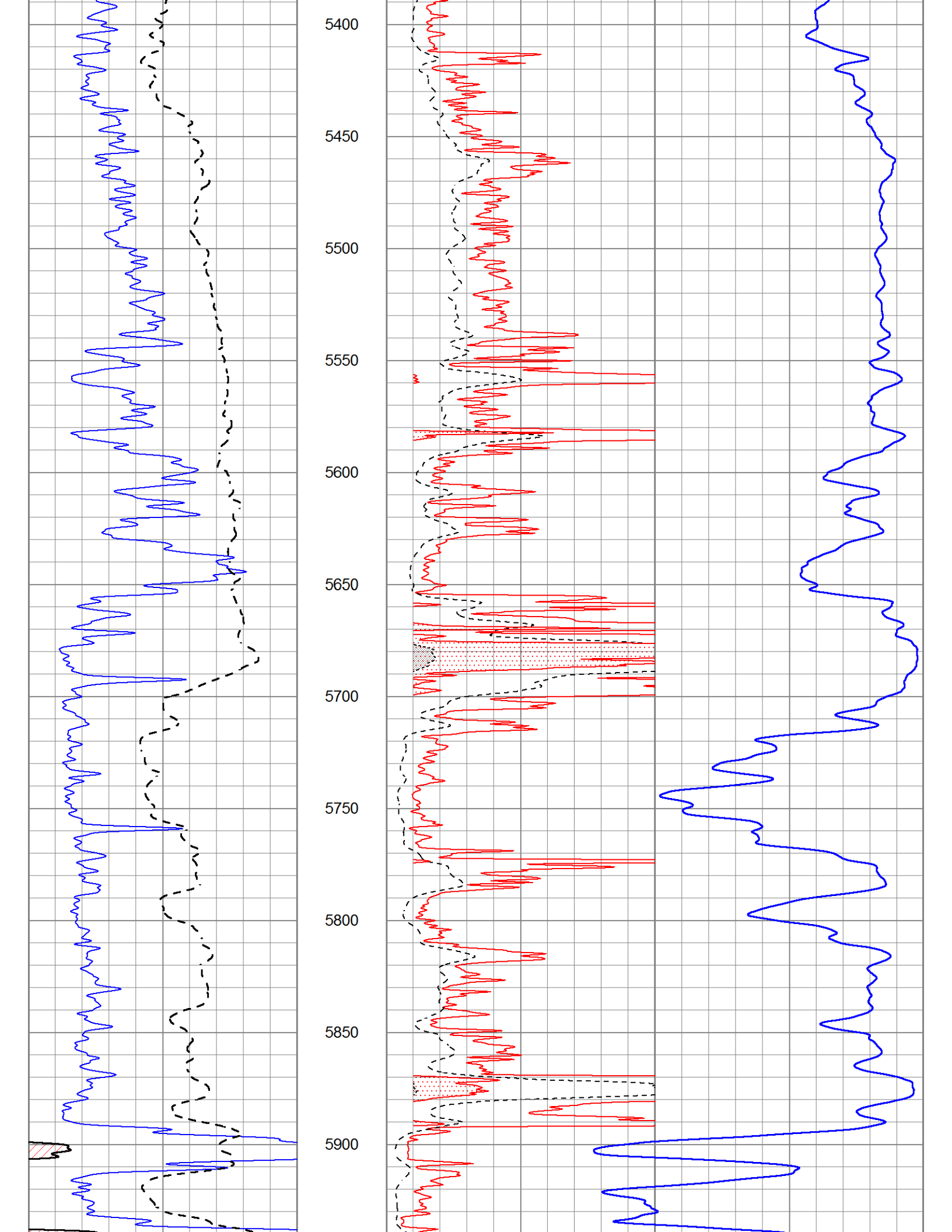
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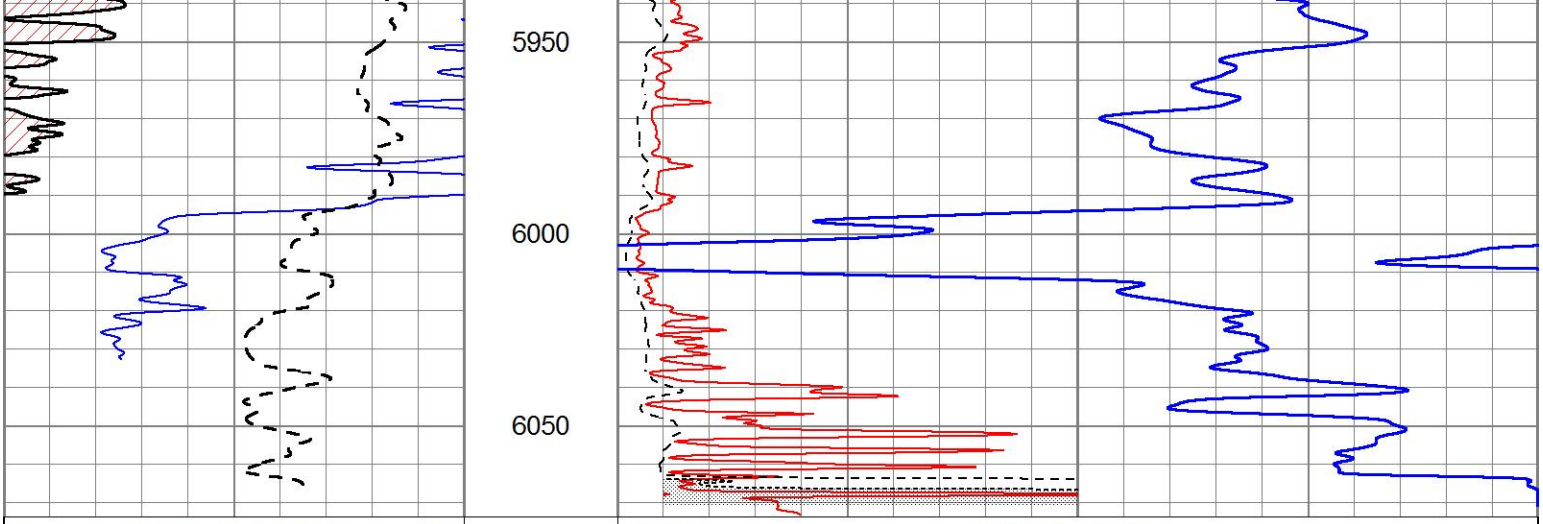
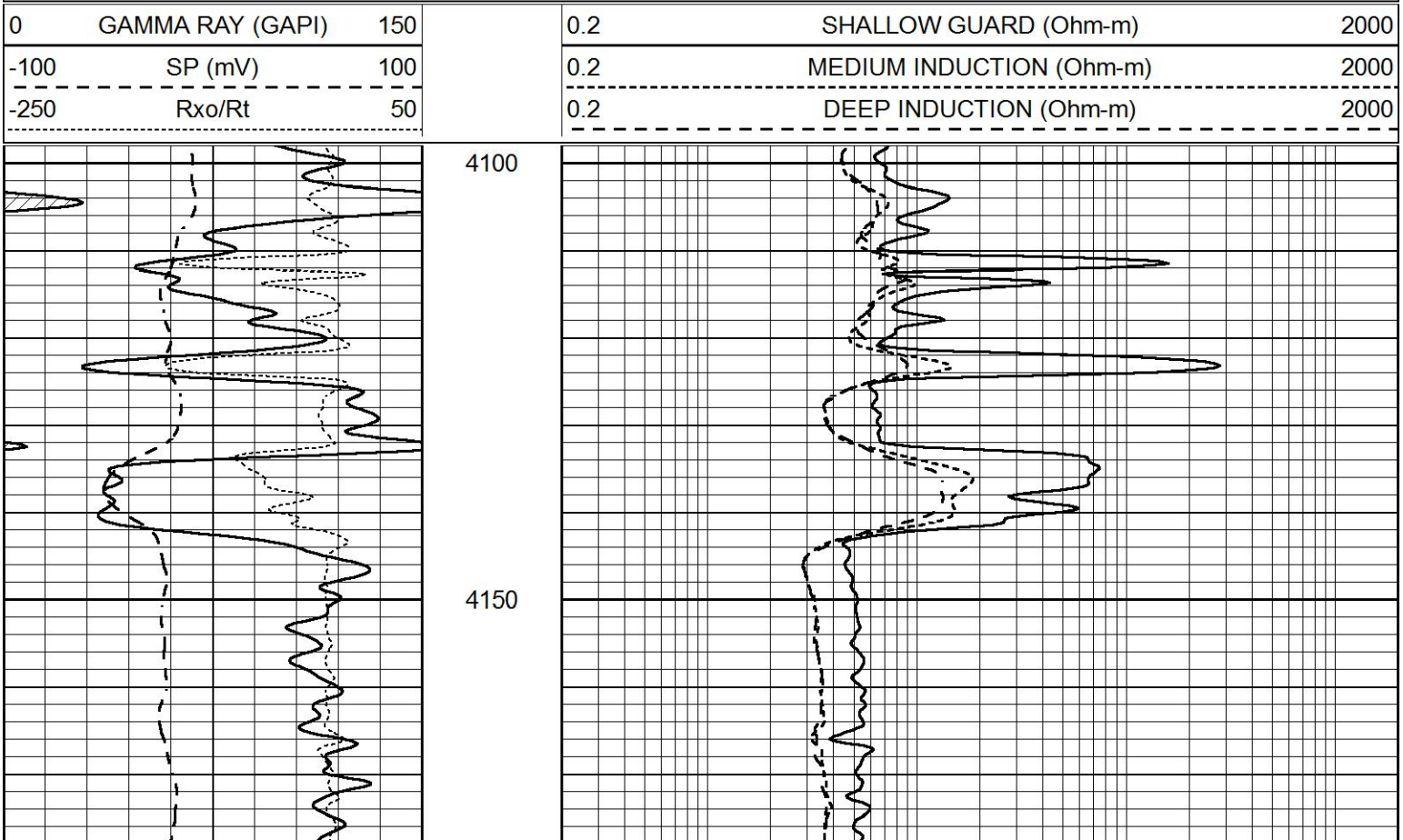
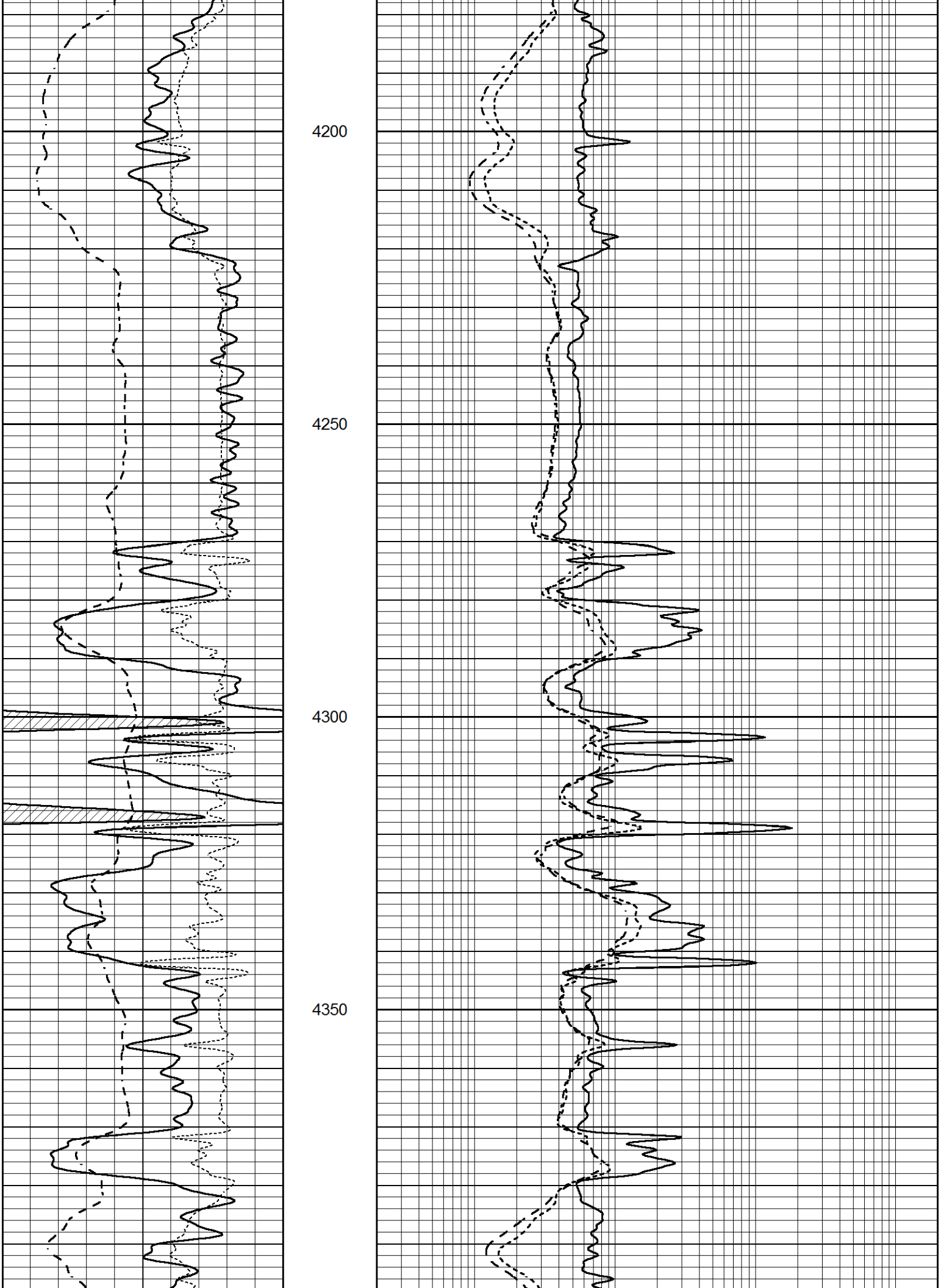


MAIN SECTION

Database File	5874pe.db
Dataset Pathname	pass3.1
Presentation Format	_dil
Dataset Creation	Sun Nov 07 23:54:33 2021
Charted by	Depth in Feet scaled 1:240

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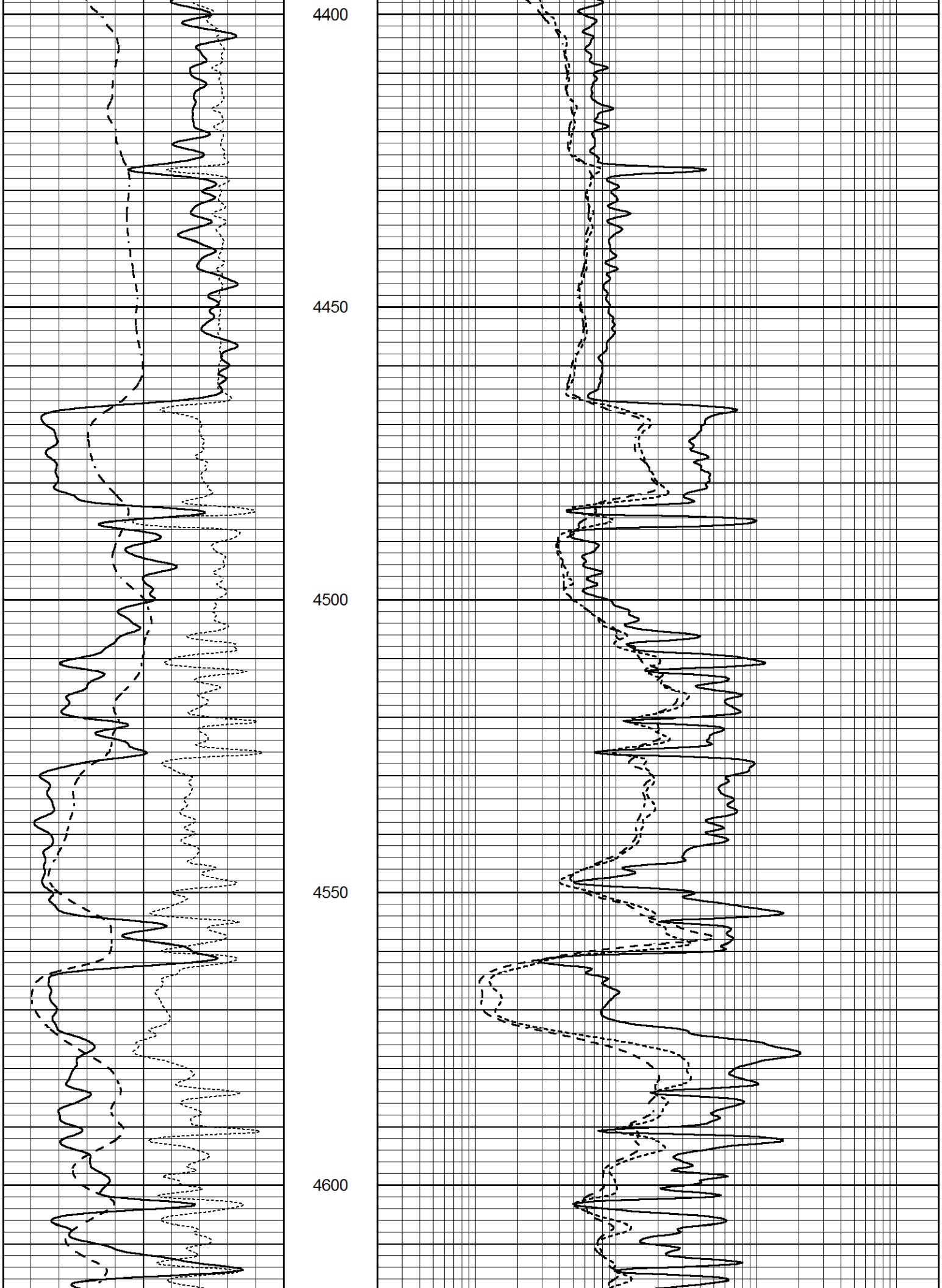
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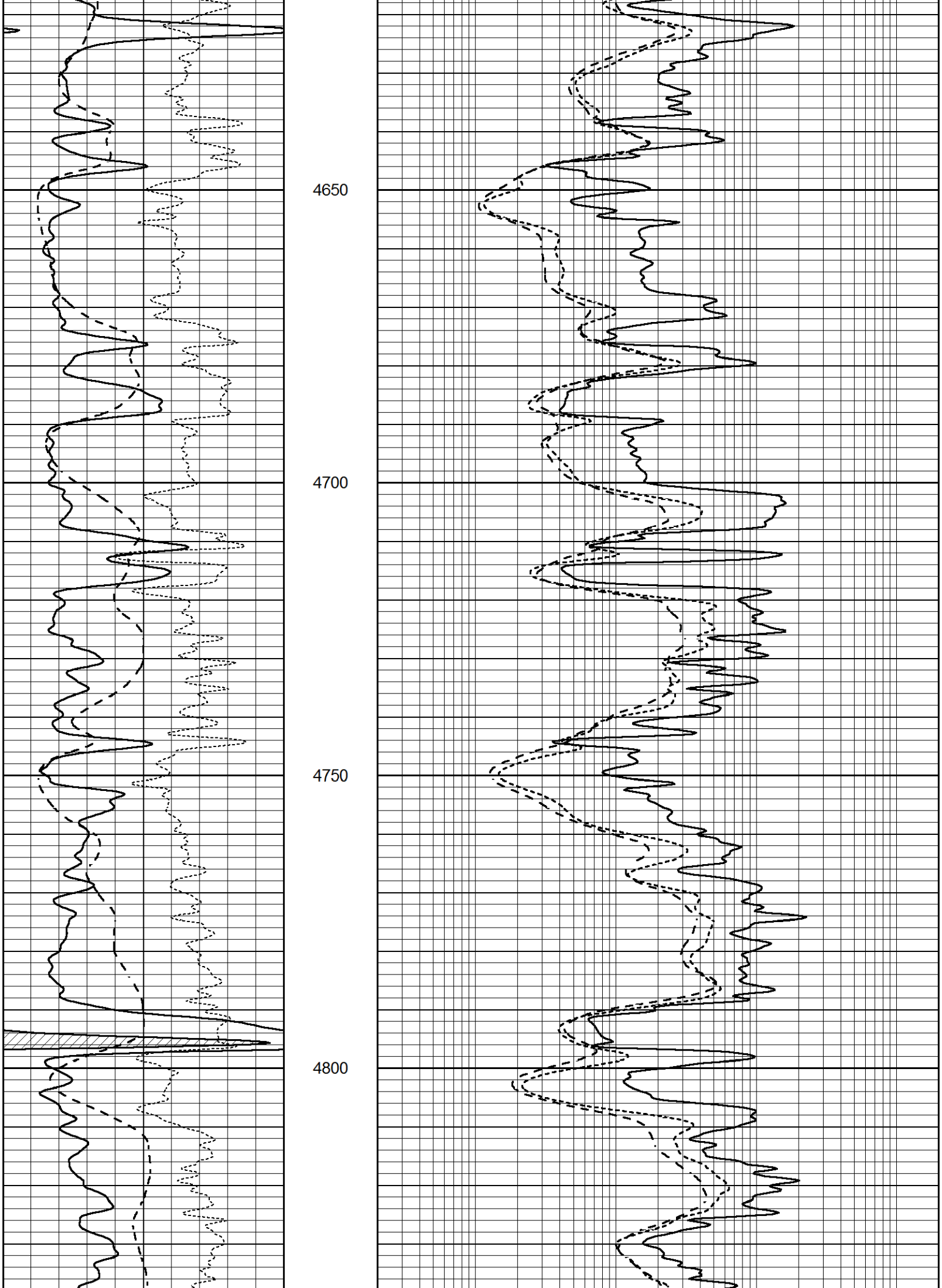
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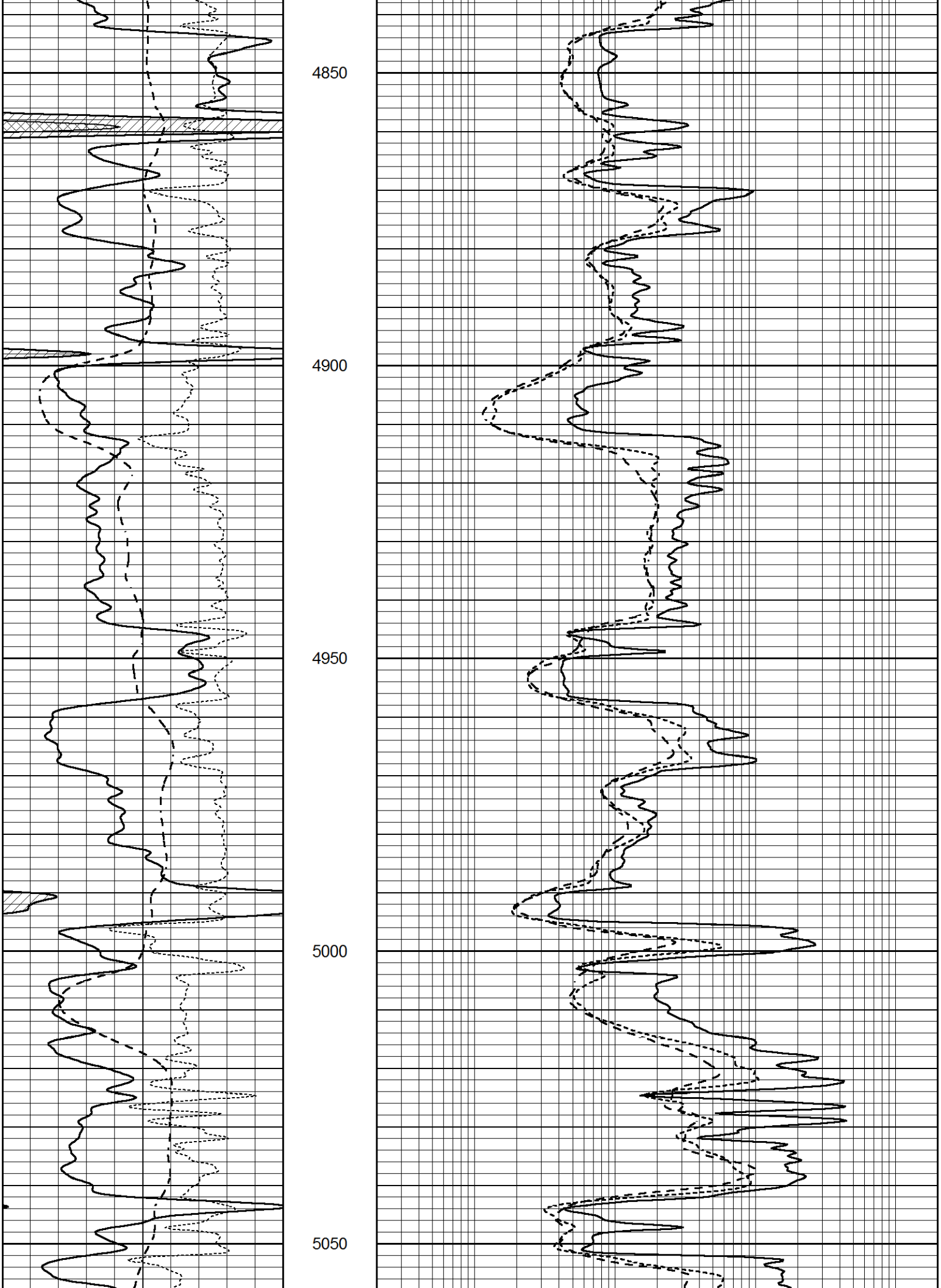
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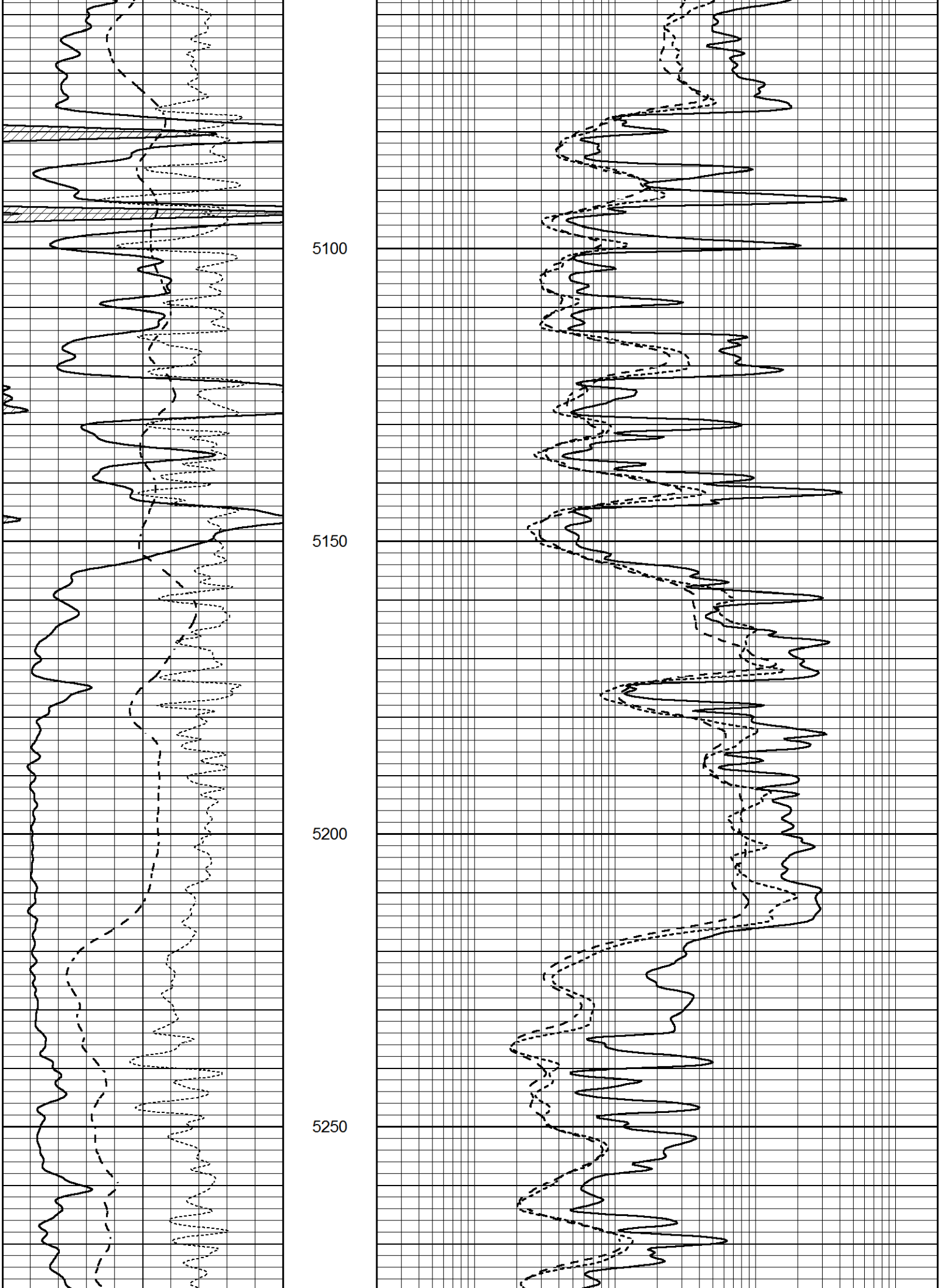
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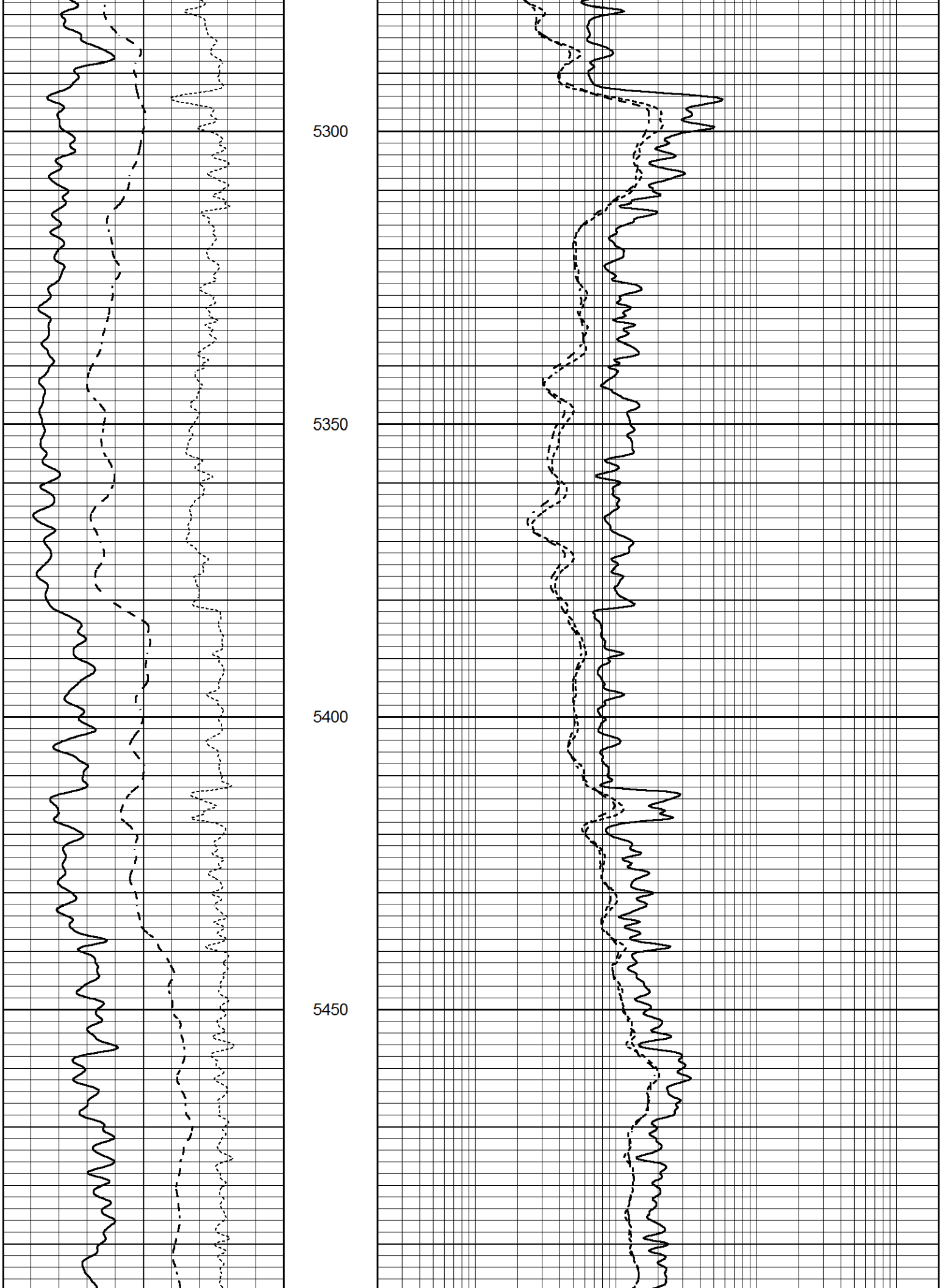
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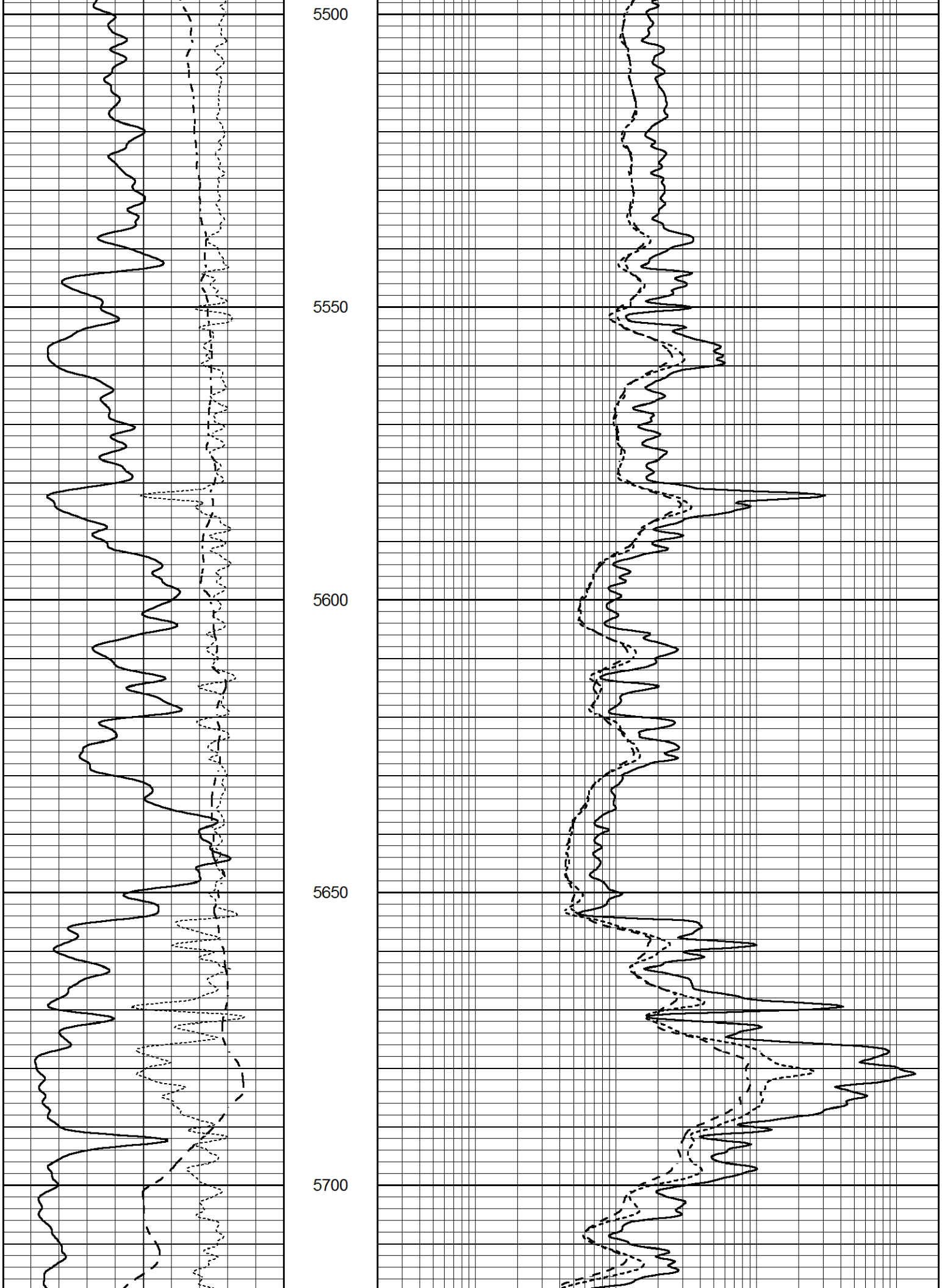
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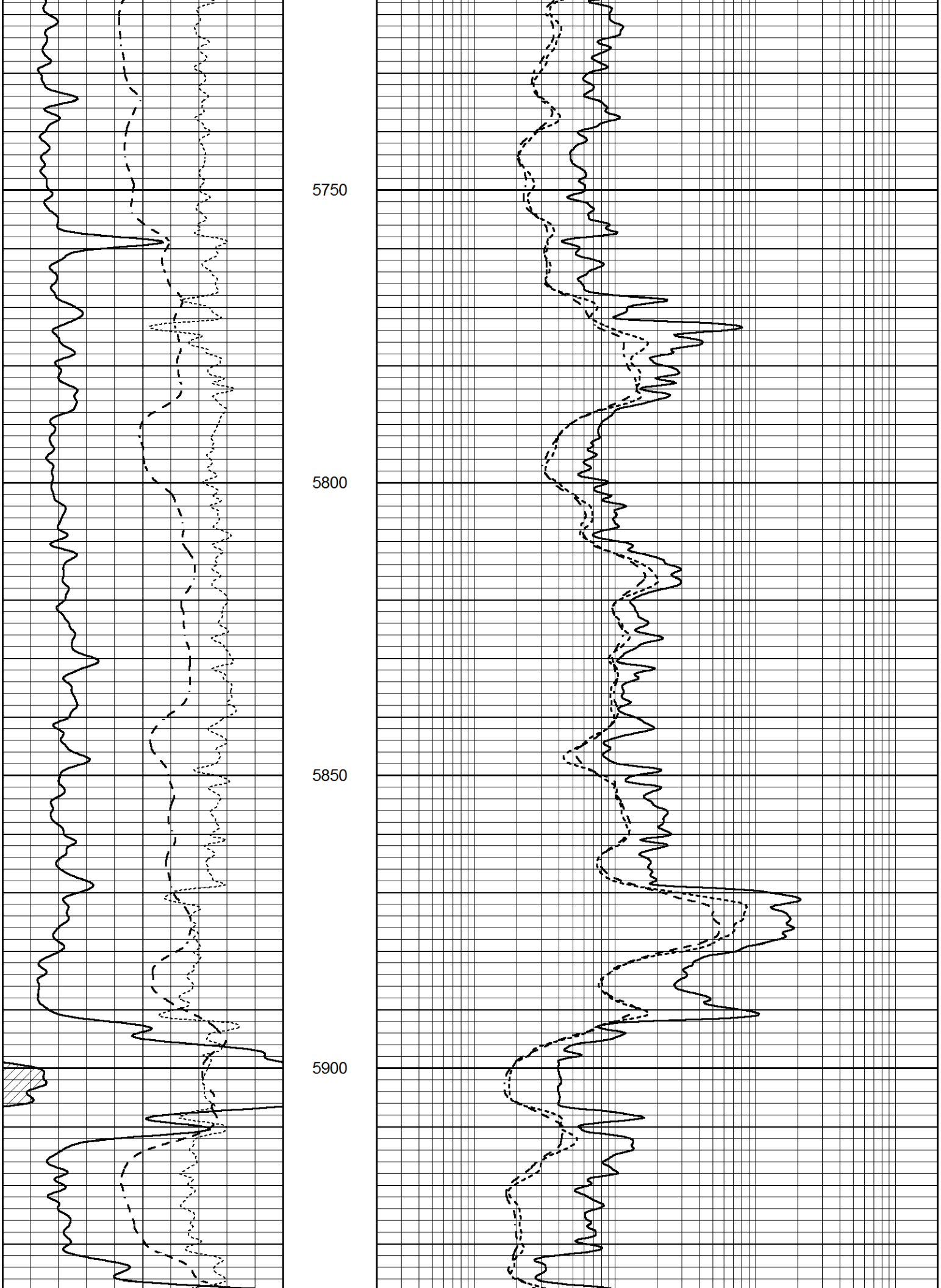
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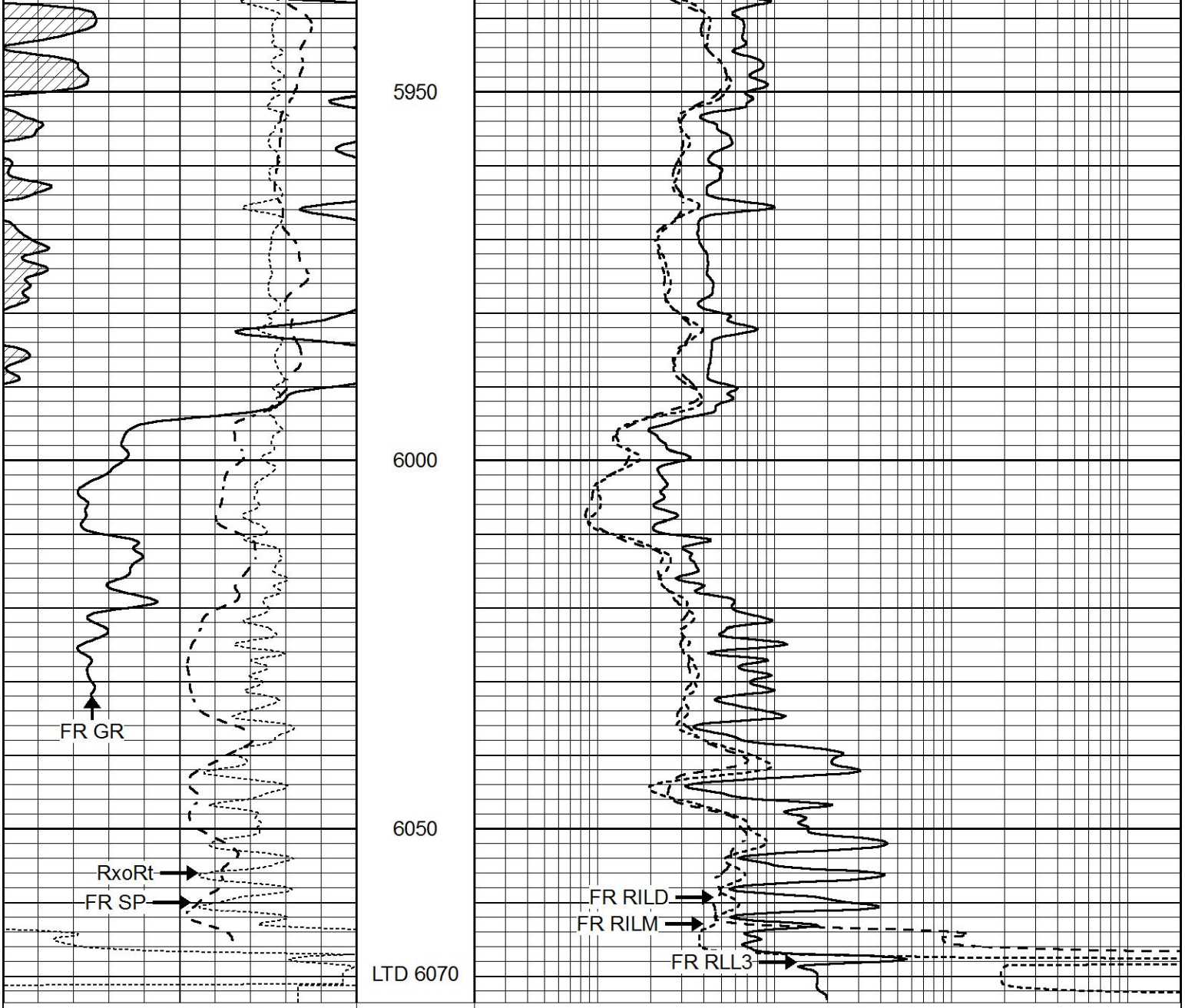


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

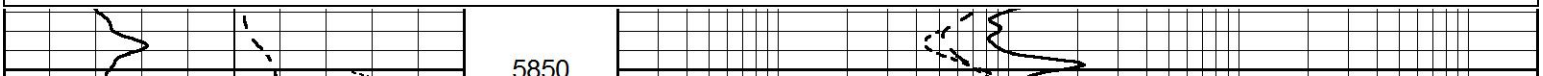
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

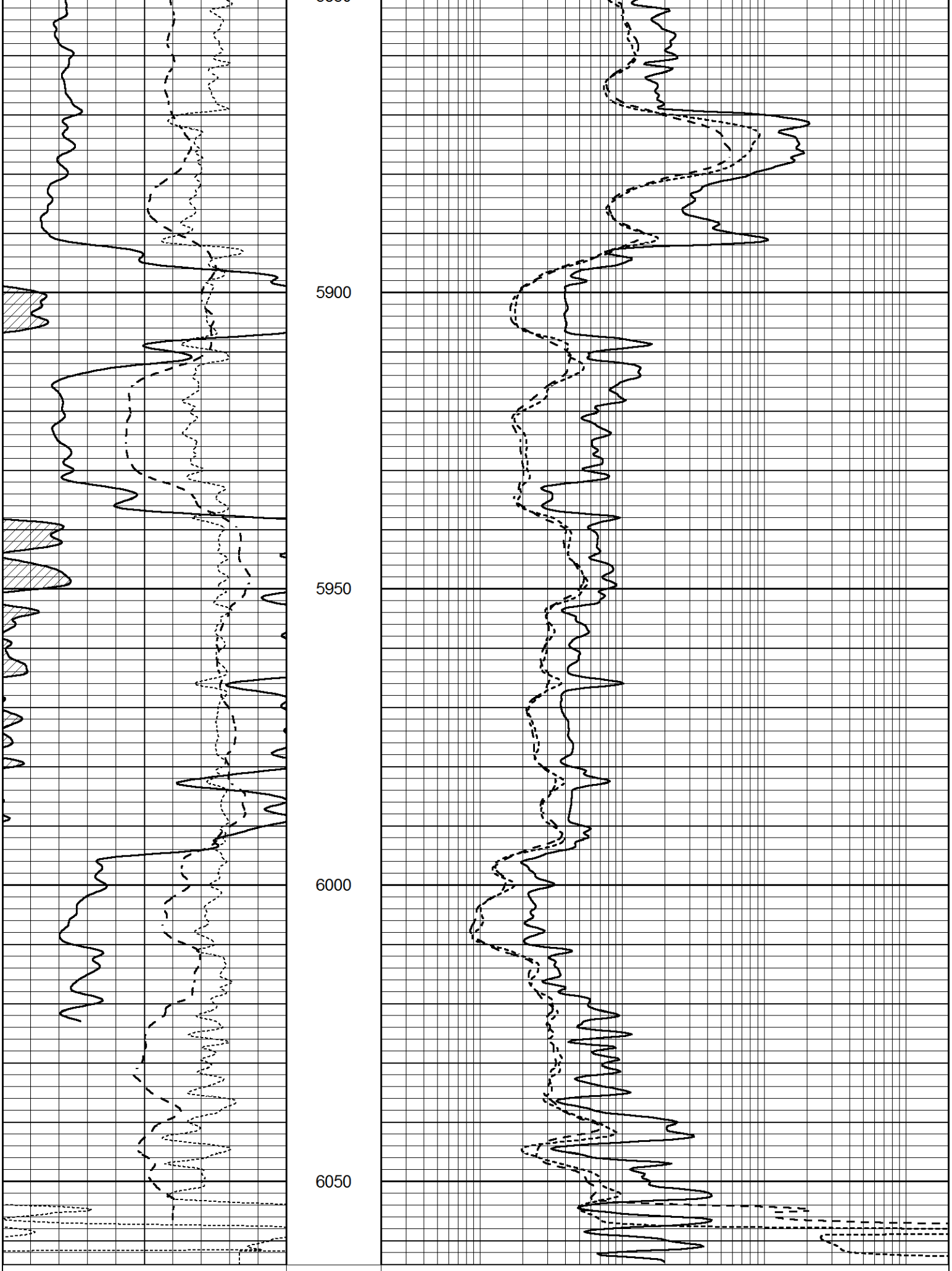
REPEAT SECTION

Database File	5874pe.db
Dataset Pathname	pass2.1
Presentation Format	_dil
Dataset Creation	Sun Nov 07 23:52:12 2021
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




5900
5950
6000
6050
0
GAMMA RAY (GAPI)
150
0.2
SHALLOW GUARD (Ohm-m)
2000

-100	SP (mV)	100
-250	Rxo/Rt	50

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

Calibration Report

Database File 5874pe.db
Dataset Pathname pass2.1
Dataset Creation Sun Nov 07 23:52:12 2021

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
Surface Cal Performed: Tue Feb 19 11:44:18 2019
Downhole Cal Performed: Tue Feb 19 11:44:24 2019
After Survey Verification Performed: Tue Feb 19 11:44:27 2019

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	430.000	mmho/m	665.106	-6.015
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		

Litho Density Calibration Report

Serial: 140704
Model: V4_10P
Source Number: 74GBq-19

Master Calibration

Performed: Mon Dec 07 12:12:14 2020

	Background	Aluminum	Magnesium	
Window 1	557.73	5525.14	24361.20	cps
Window 2	47.08	1245.09	5901.17	cps
Window 4	239.06	1250.70	5456.76	cps
Window 5	564.08	8300.56	16134.07	cps
Window 6	44.21	1356.78	2705.40	cps
Window 8	267.87	2686.97	5150.30	cps

Bulk Density	-	2.6020	1.6830	g/cc
Pe	-	3.0000	2.5070	b/e

LS Alpha:	: -1.8719	SS Alpha:	: -0.8000	LS CPE:	: 1.1424
LS Beta:	: 135562.6841	SS Beta:	: 20128.7209	SS CPE:	: 1.5489

Before Survey Backround Counts Verification — Performed: Wed Dec 31 18:00:00 1969

Window 1	0.00	cps
Window 2	0.00	cps
Window 4	0.00	cps
Window 5	0.00	cps
Window 6	0.00	cps
Window 8	0.00	cps

After Survey Background Counts Verification — Performed: Wed Dec 31 18:00:00 1969

Window 1	0.00	cps
Window 2	0.00	cps
Window 4	0.00	cps
Window 5	0.00	cps
Window 6	0.00	cps
Window 8	0.00	cps

Lithodensity Caliper Calibration — Performed: Mon Dec 07 12:12:14 2020

Results Readings		References (in)			
Low	High	Low	High	Gain	Offset
5852.8	8972.7	8.0	14.0	0.0	-3.3

Before Survey Caliper Verification — Performed:

	Reference	Reading
Caliper (in)		

After Survey Caliper Verification — Performed:

	Reference	Reading
Caliper (in)		

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		

Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	7	
Tool Model:	Probe1	
Performed:	Tue Jan 19 17:50:08 2021	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5300	GAPI/cps