SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company EDISON OPERATING COMPANY, LLC.

Well BOX #1-30

Field WILDCAT

County SEWARD State KANSAS

Location: API # : 15-175-22192

1980' FSL & 1980' FEL

SEC 30 TWP 34S W RGE 32W

Other Services
CDL/CNL/PE
SONIC/MEL

Elevation
K.B. 2778
D.F.
G.L. 2766

Permanent Datum GROUND LEVEL Elevation 2766
Log Measured From KELLY BUSHING 12' A.G.L.
Drilling Measured From KELLY BUSHING

Company EDISON OPERATING CO., LLC.
Well BOX #1-30
Field WILDCAT
County SEWARD
State KANSAS

Date	9-24-11		
Run Number	ONE		
Depth Driller	6500		
Depth Logger	6496		
Bottom Logged Interval	6494		
Top Log Interval	00		
Casing Driller	1611		
Casing Logger	1611		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.4 / 76		
pH / Fluid Loss	9.5 / 8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.20 @ 68F		
Rmf @ Meas. Temp	0.90 @ 68F		
Rmc @ Meas. Temp	1.44 @ 68F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.580 @ 140F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	2:45 P.M.		
Maximum Recorded Temperature	140F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	MACKLIN ARMSTRONG		

<<< Fold Here >>>

Comments

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: LIBERAL, AT #83 & #54 JCT., 3 NE TO RD. #M, 1S TO RD. #6, 1E, 1/2S, W INTO.

MAIN SECTION

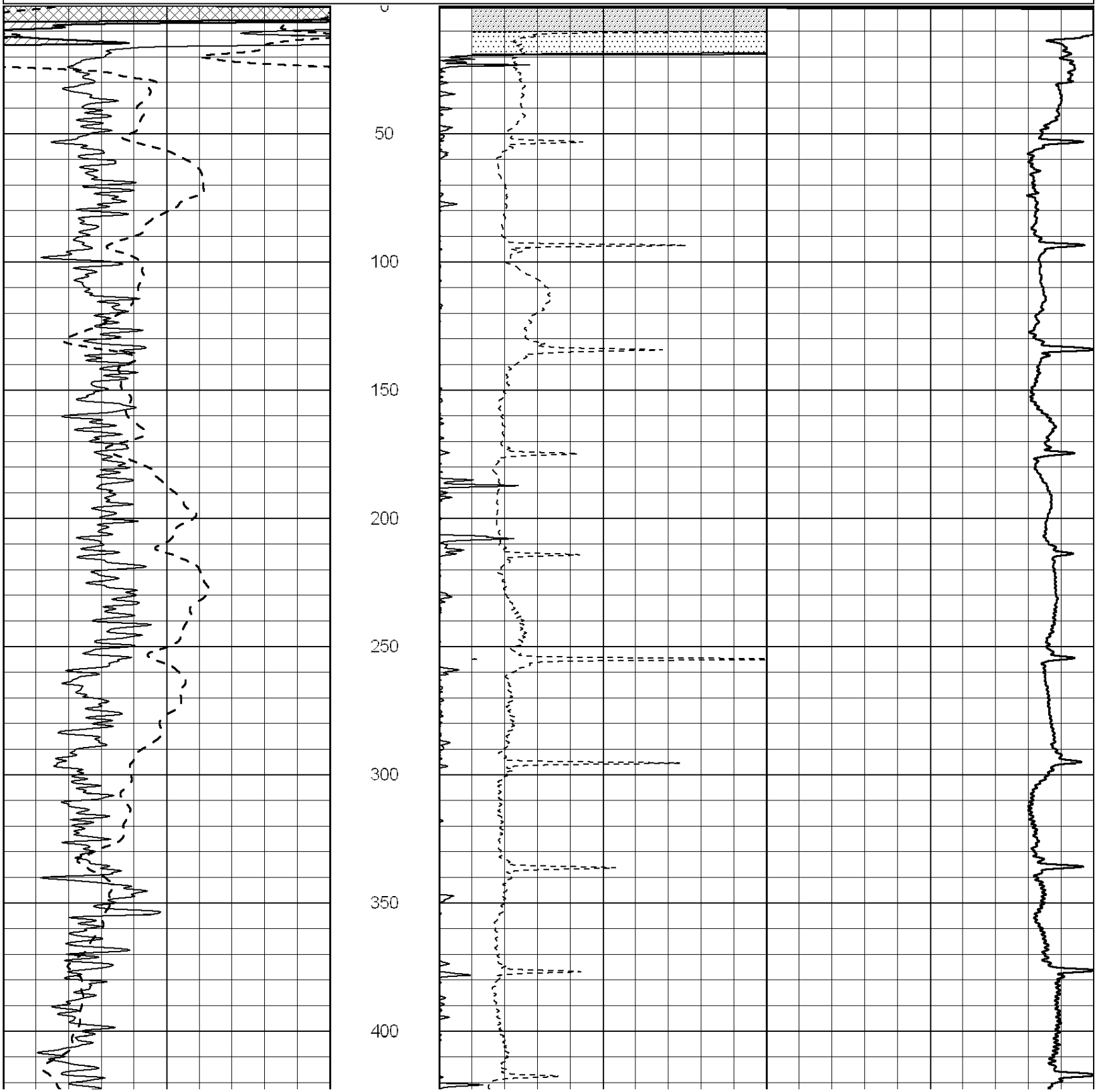
SUPERIOR
Hays,

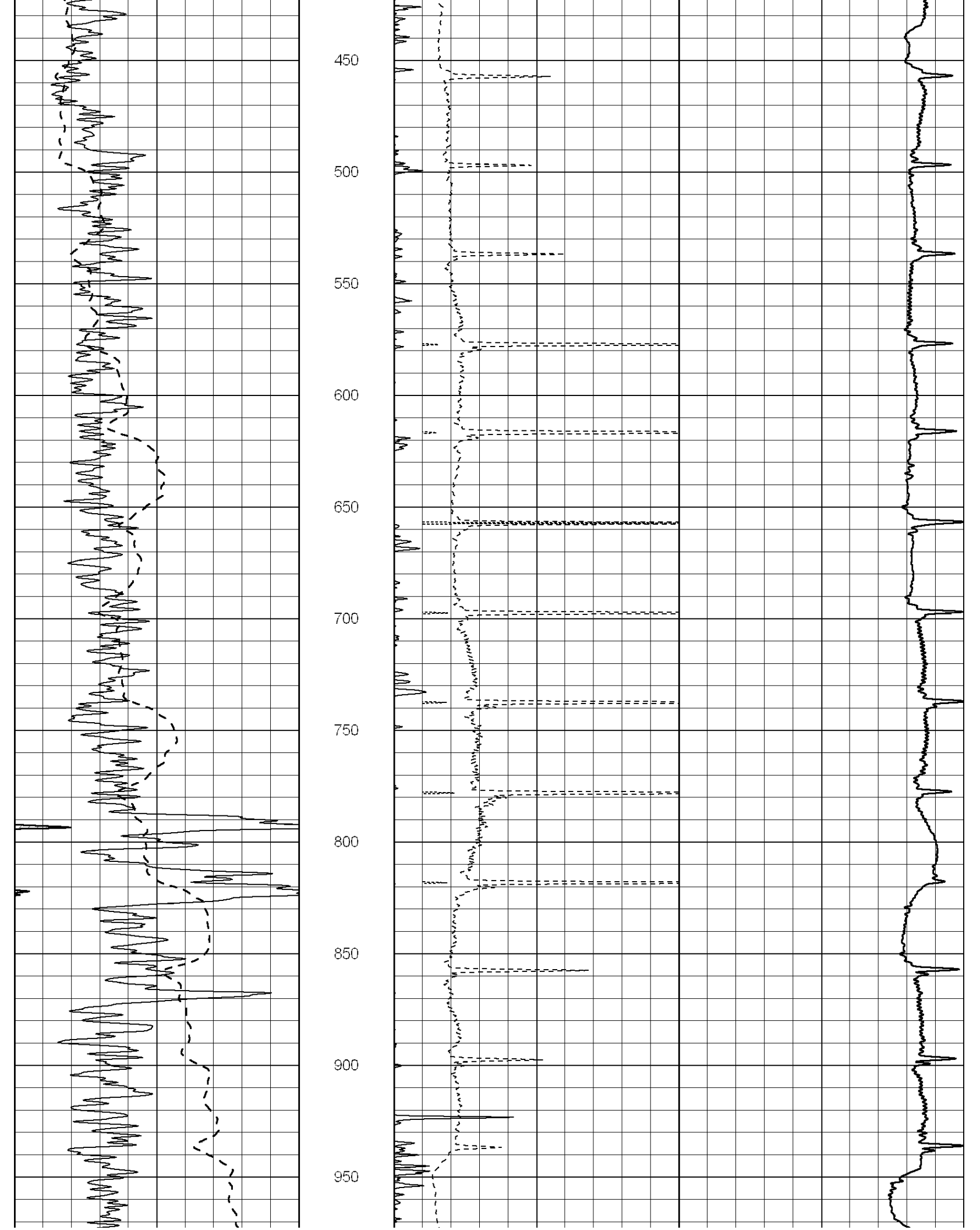
Kansas

Database File:	007743pdn.db
Dataset Pathname:	pass3.A
Presentation Format:	dil2
Dataset Creation:	Sat Sep 24 06:52:12 2011
Charted by:	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50
1000	CILD (mmho/m)	0
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

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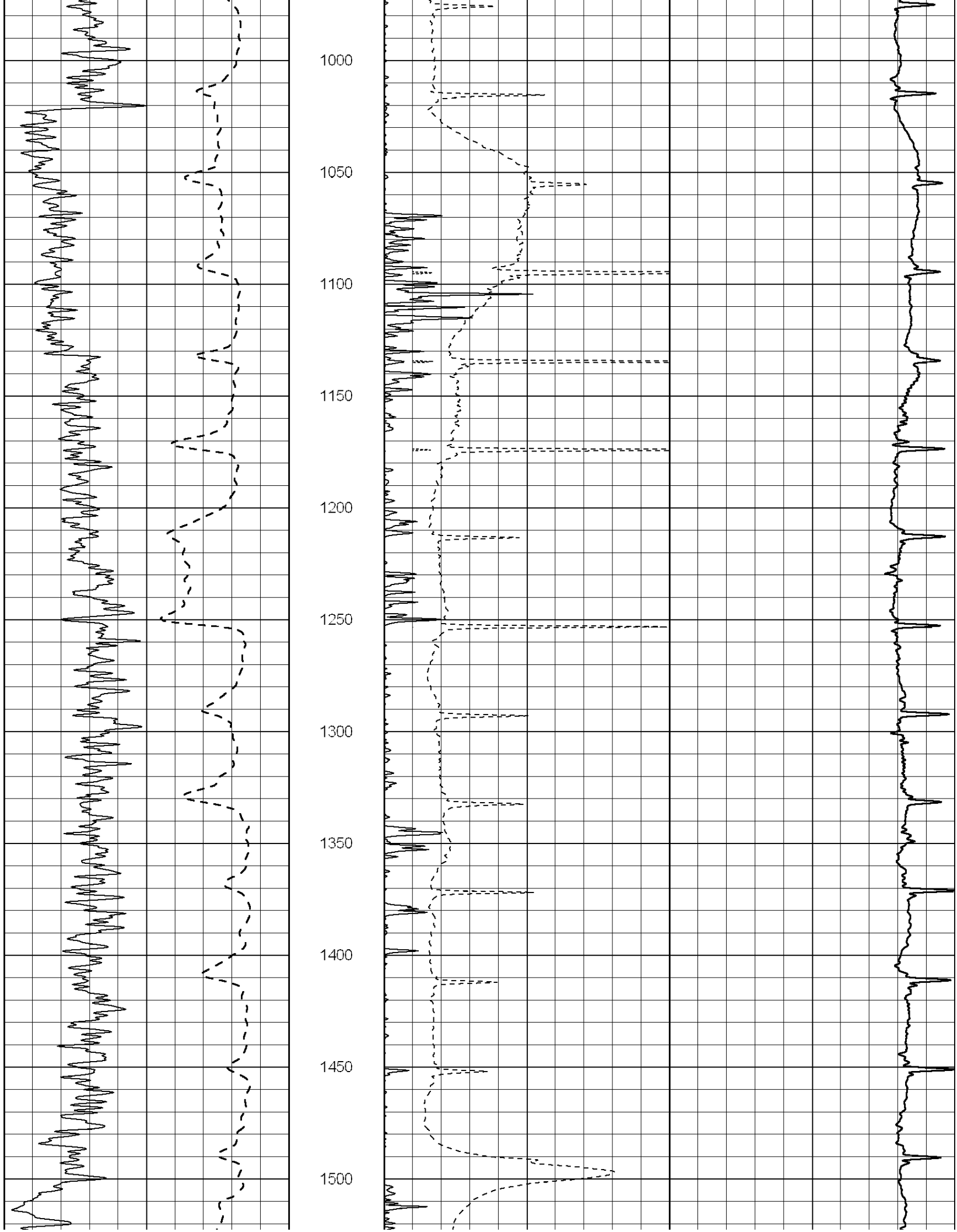
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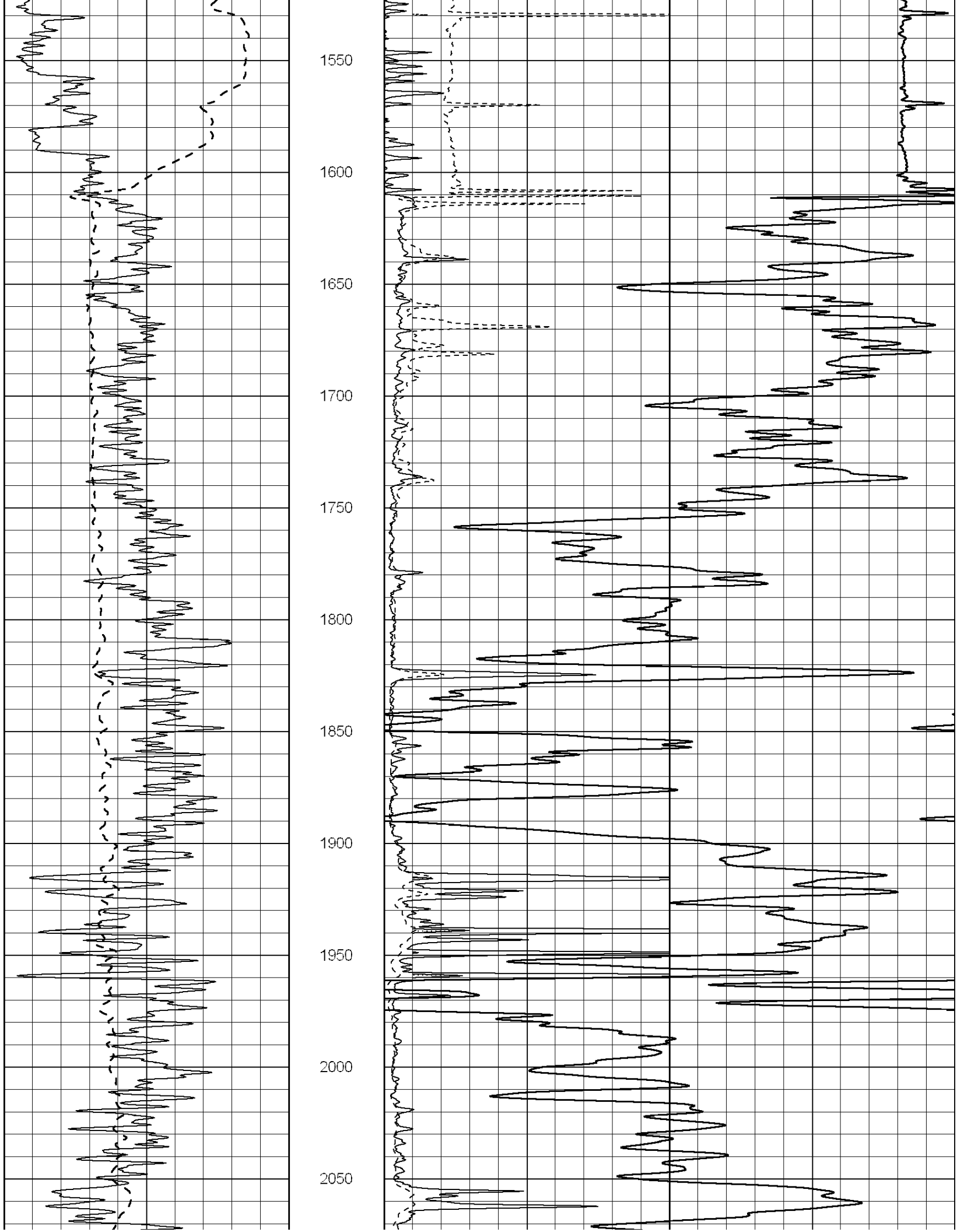
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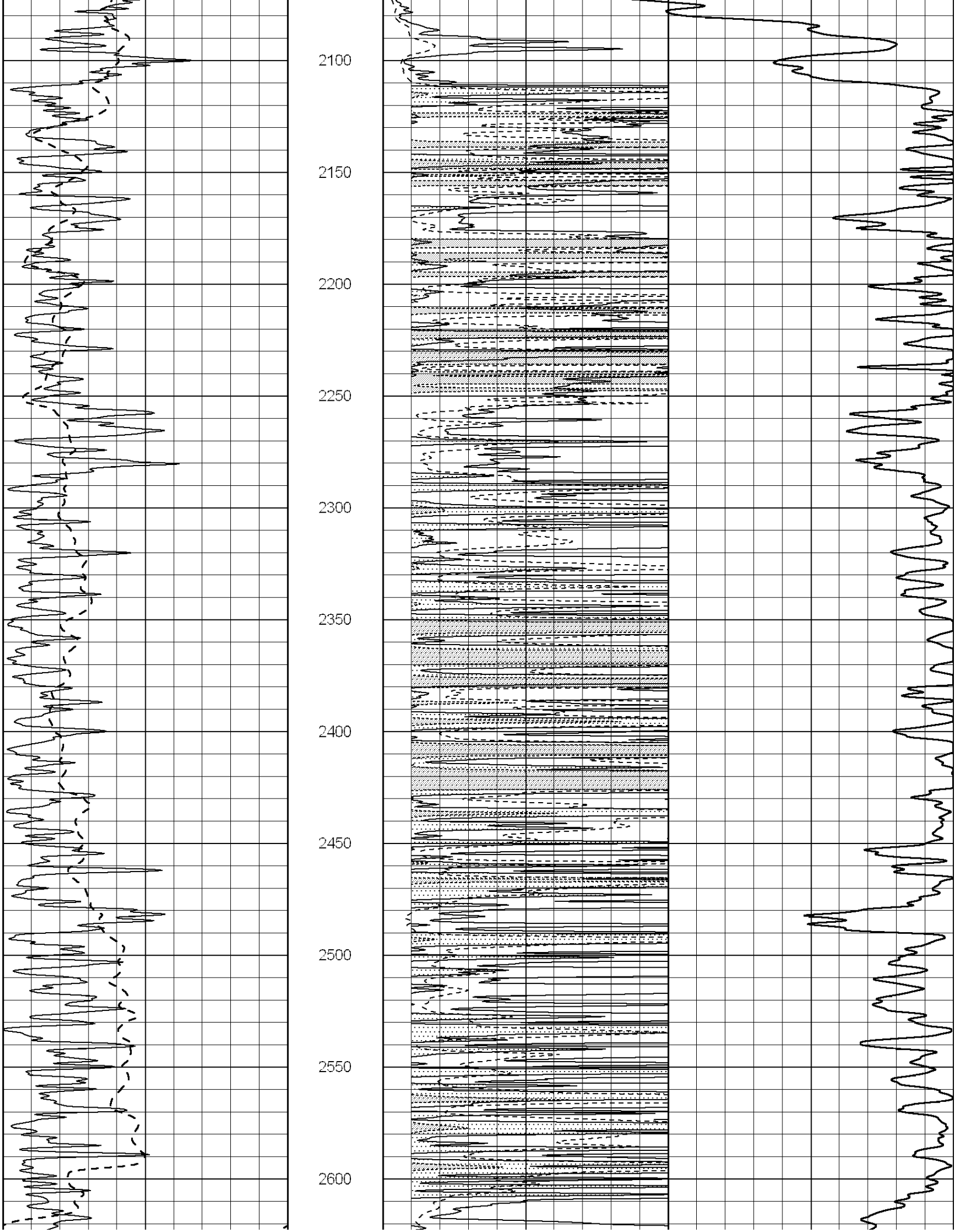
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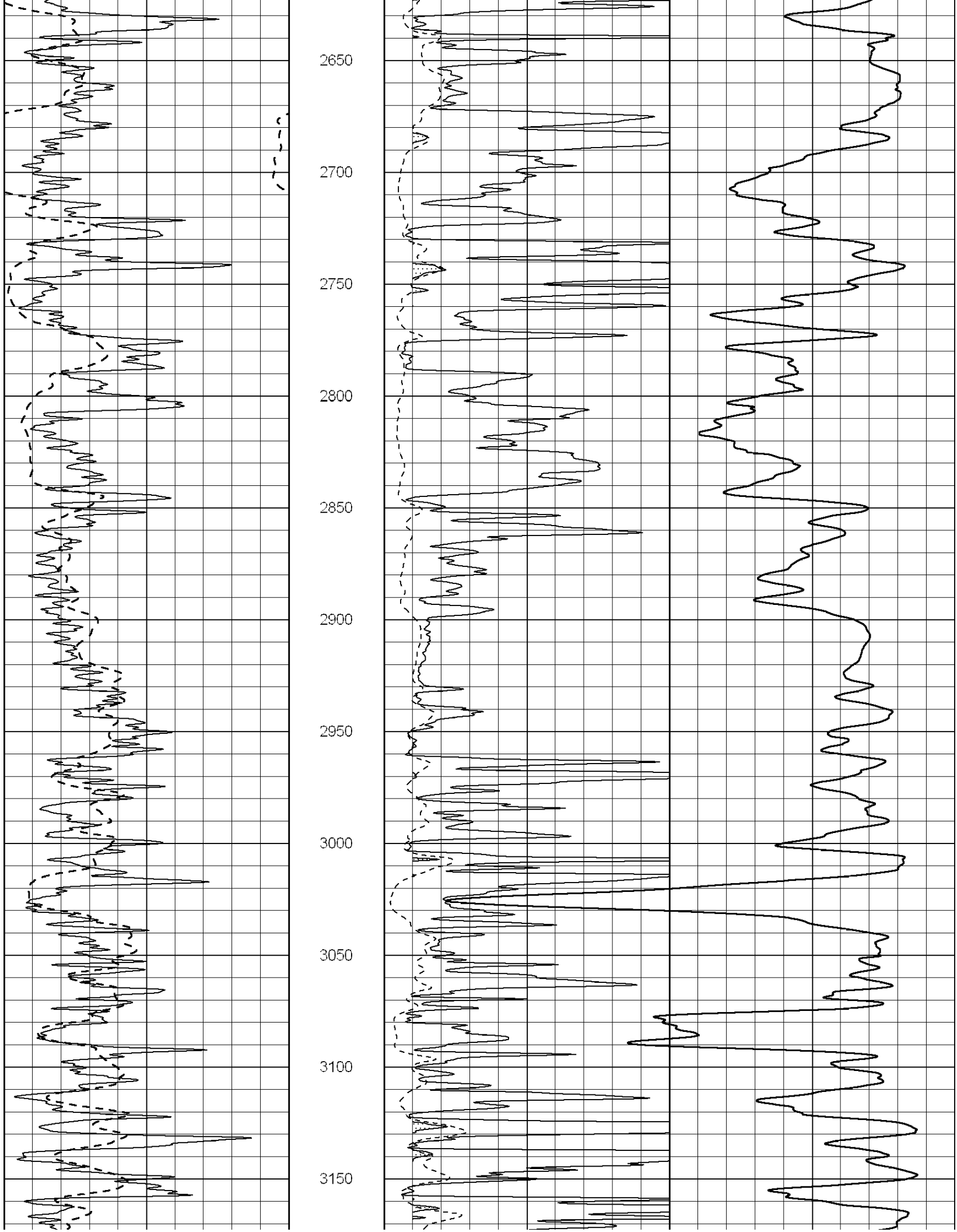
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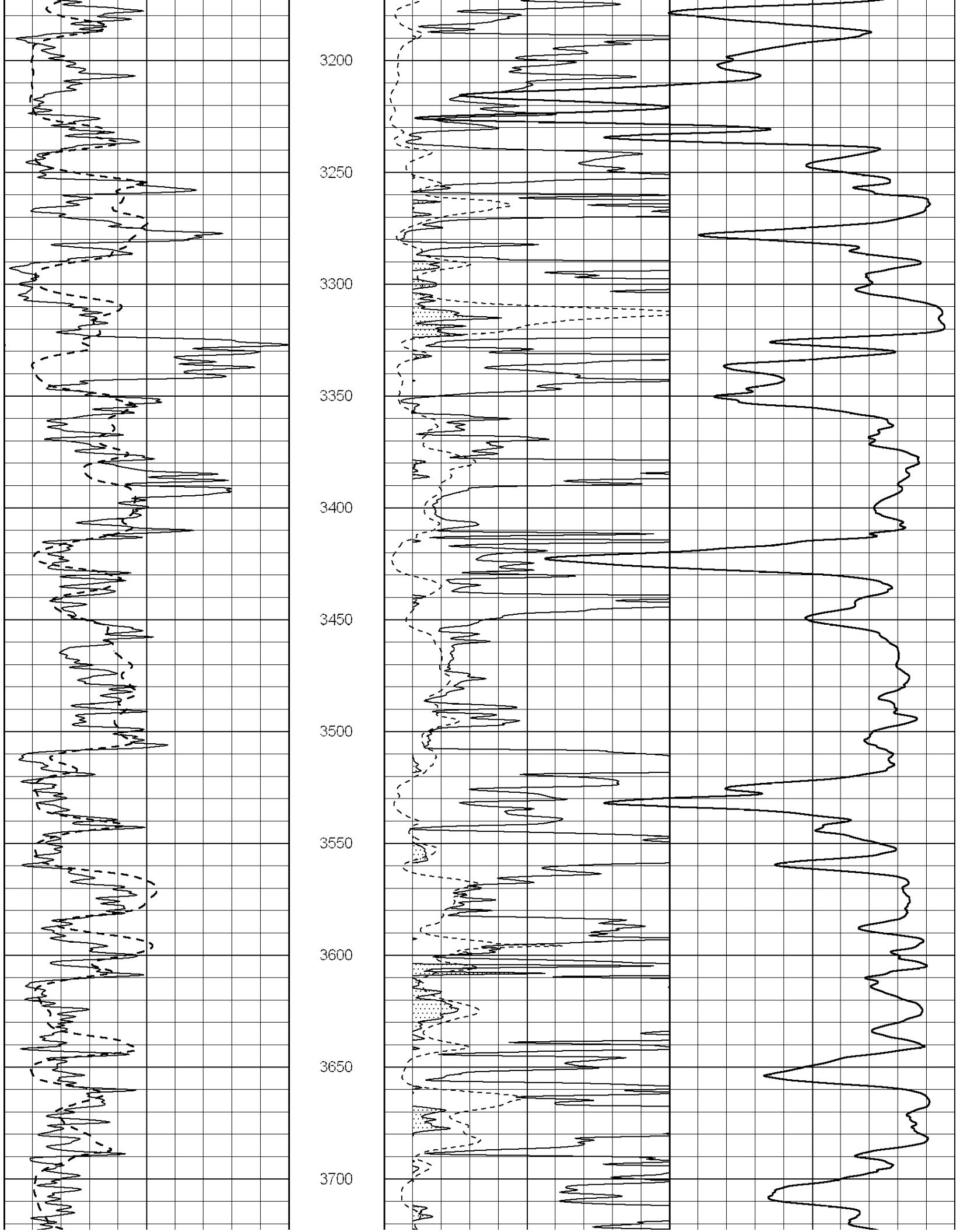
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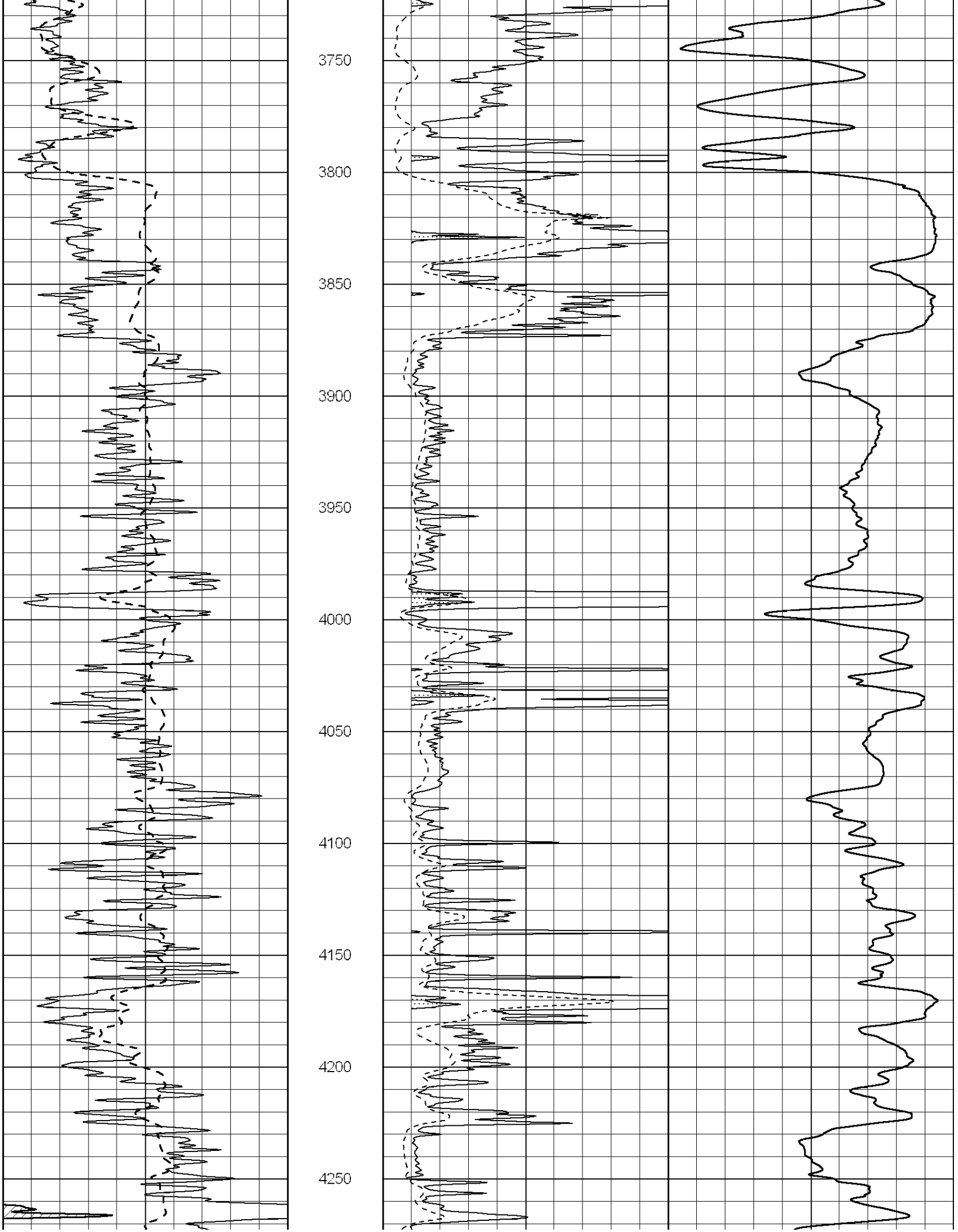
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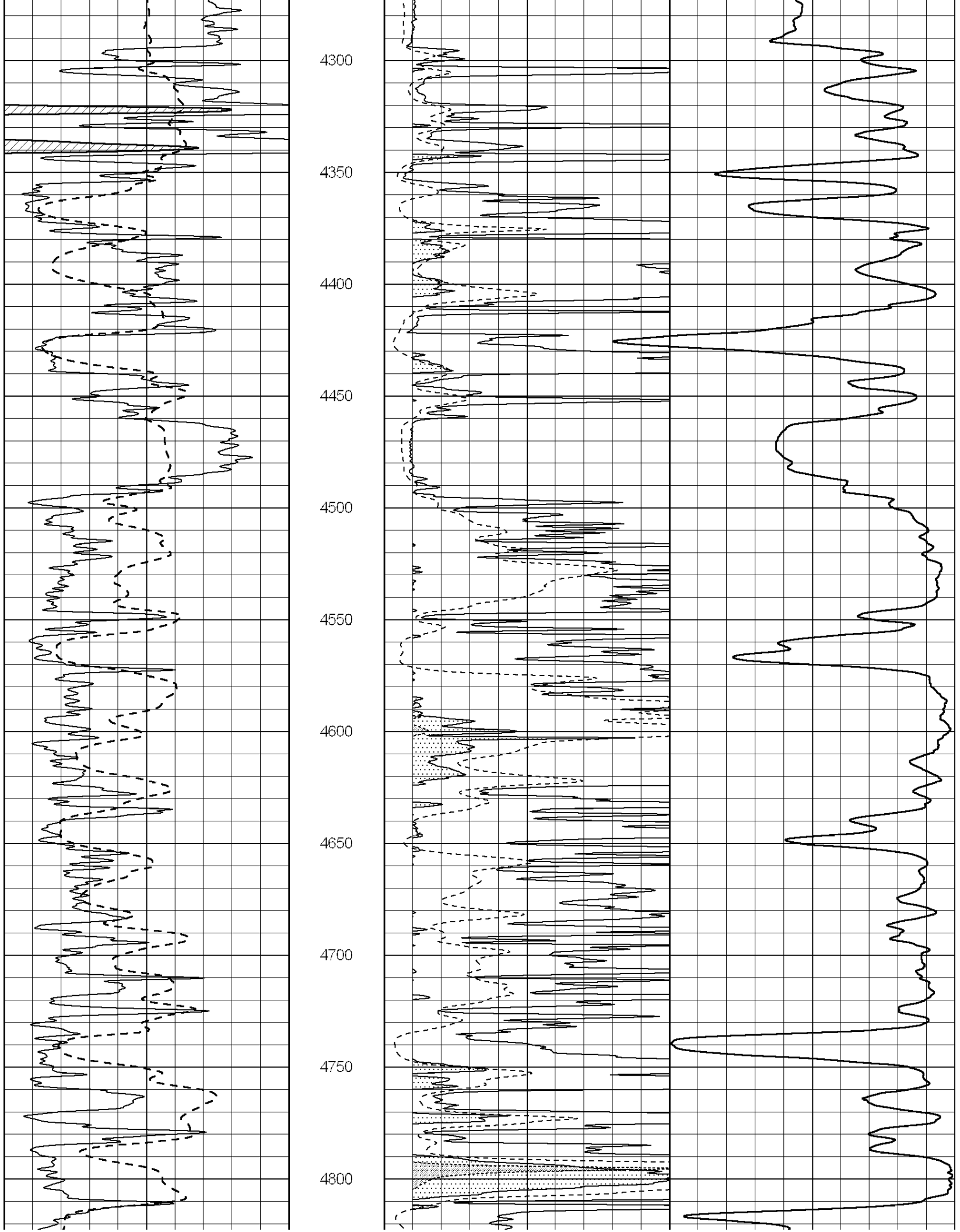
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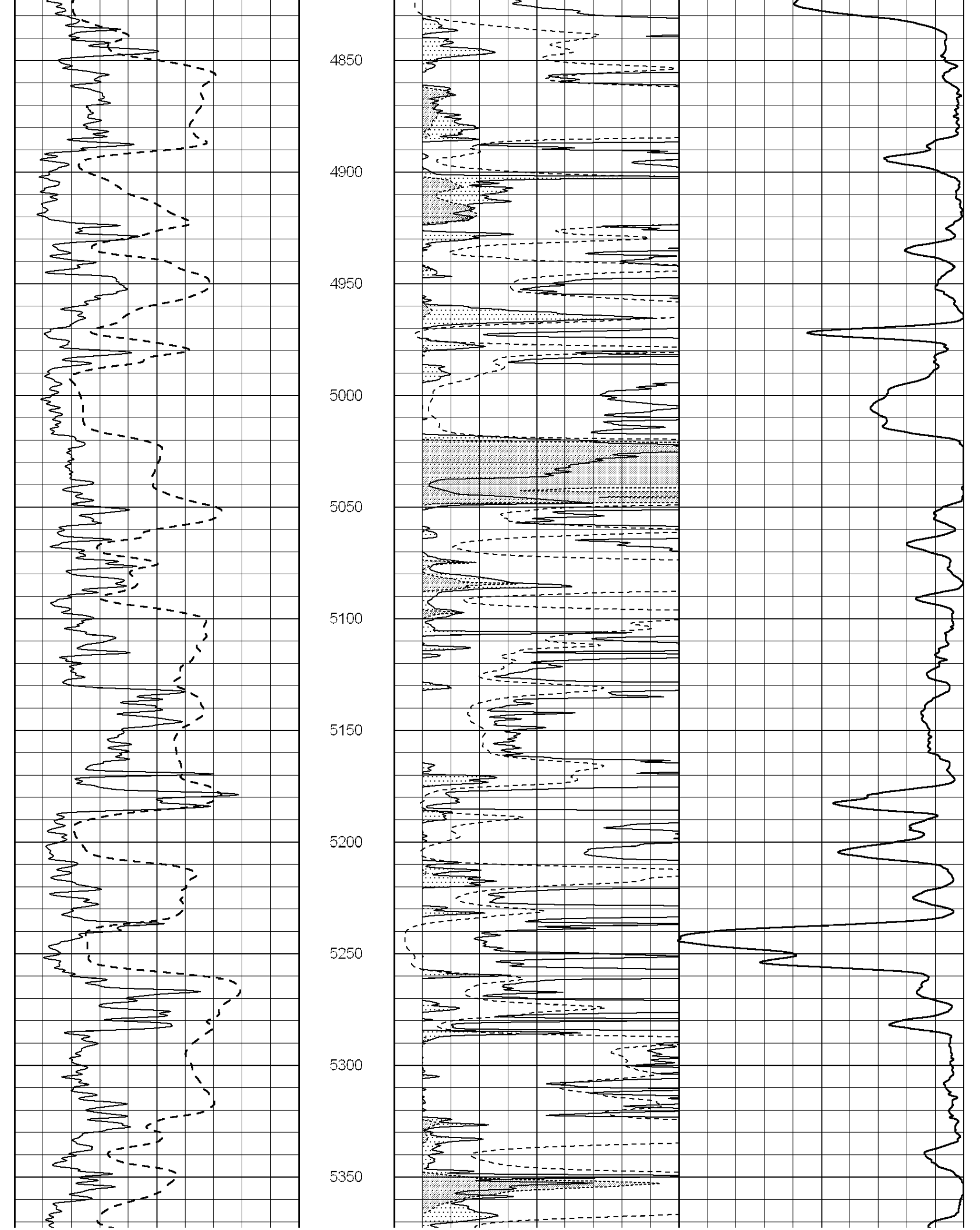
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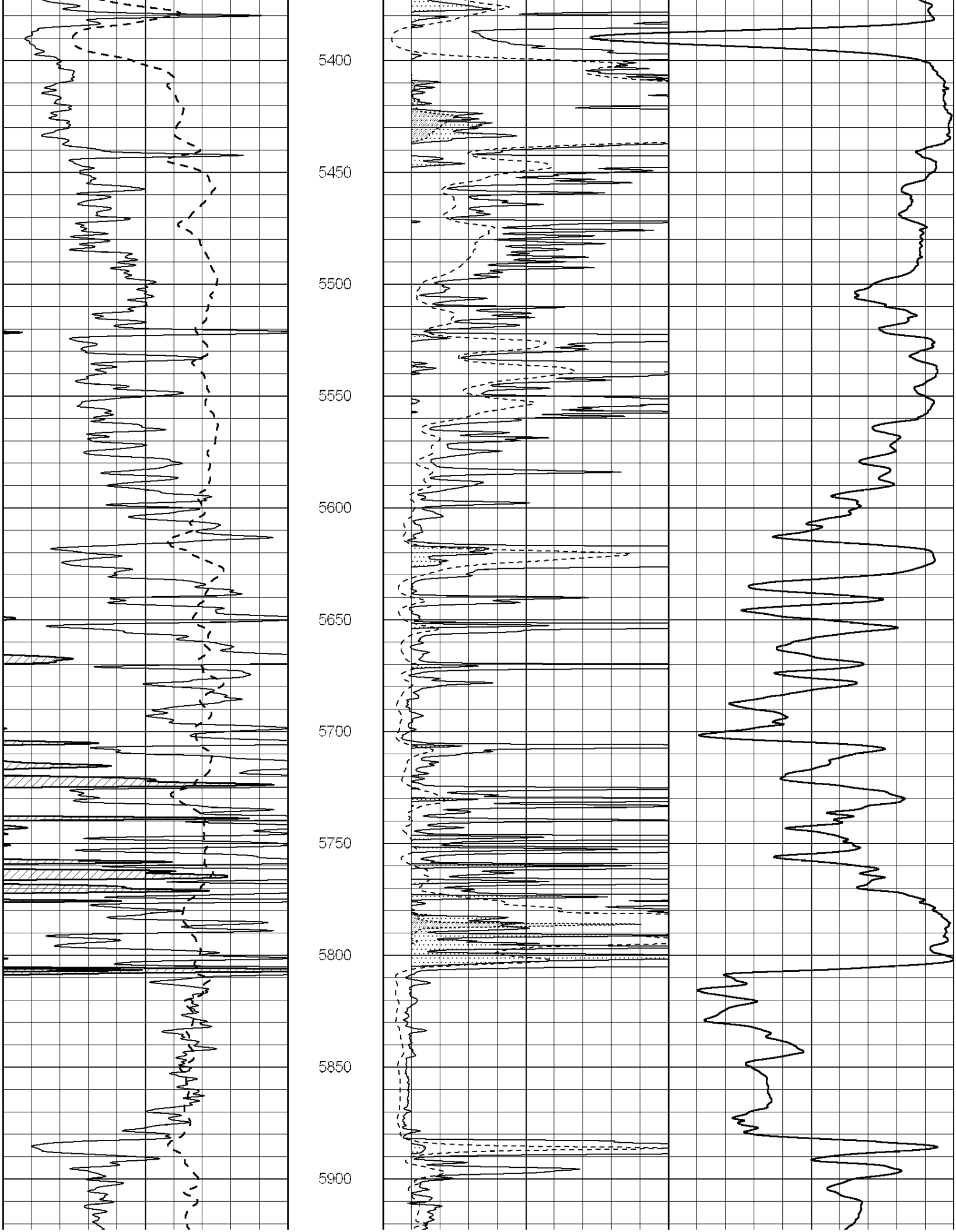
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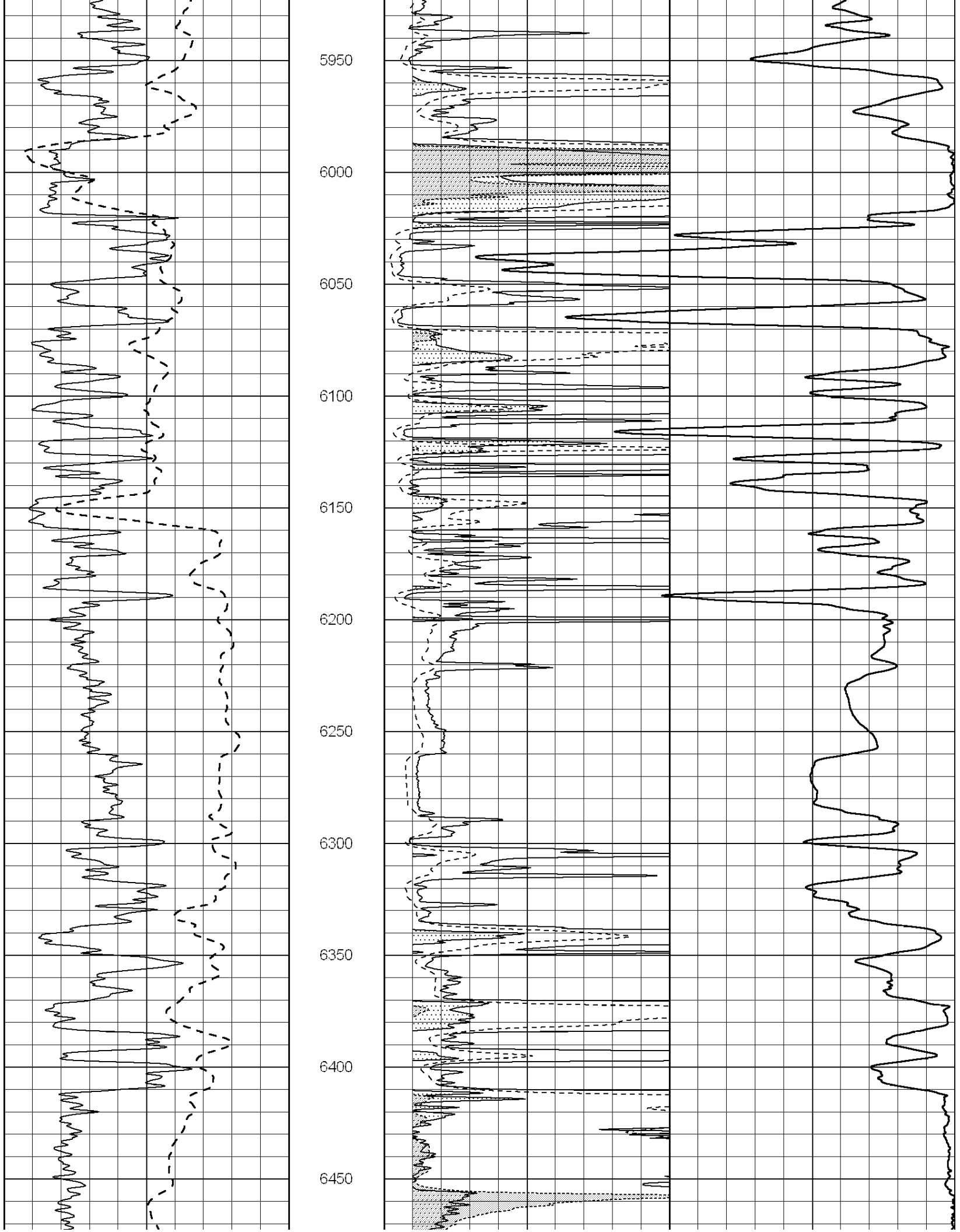
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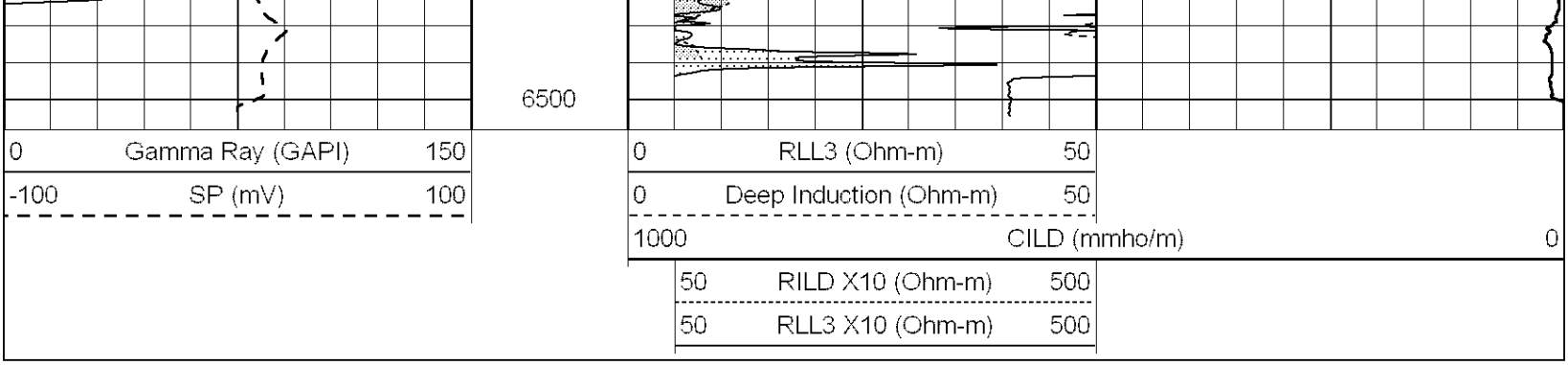


SUPERIOR WELL SERVICES

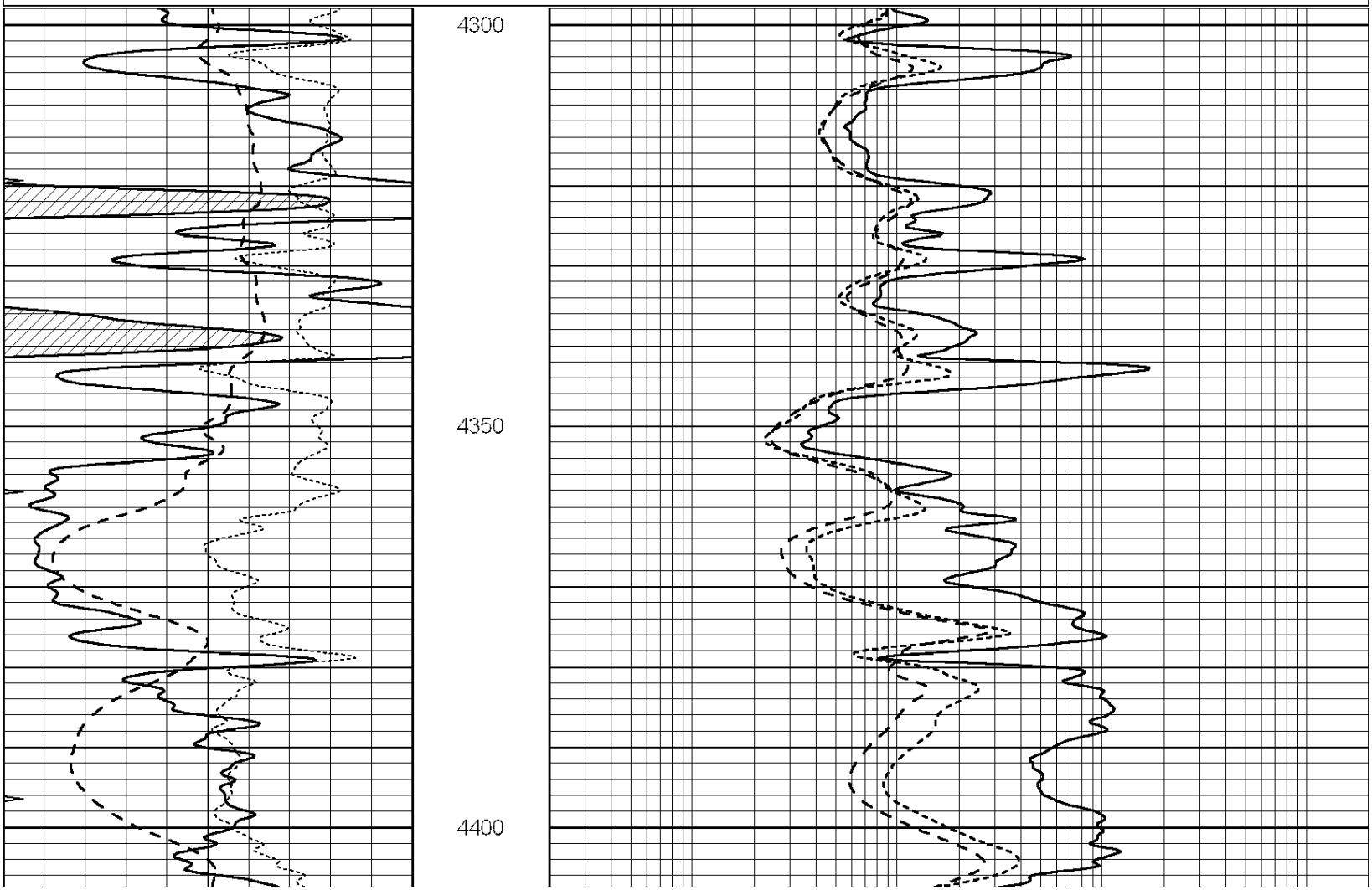
SUPERIOR
Hays,
Kansas

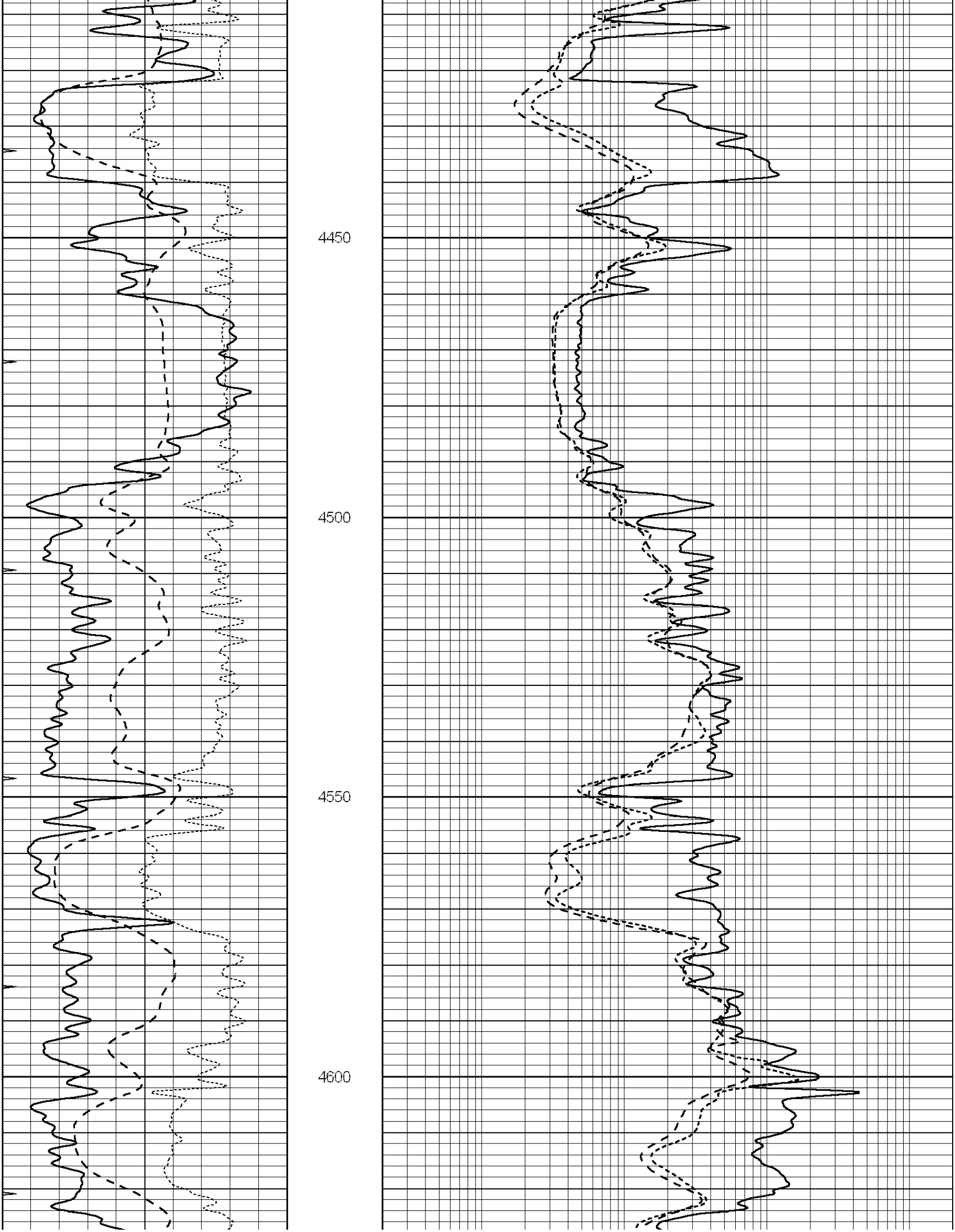
MAIN SECTION

Database File:	007743pdn.db
Dataset Pathname:	pass3.A
Presentation Format:	dil
Dataset Creation:	Sat Sep 24 06:52:12 2011
Charted by:	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

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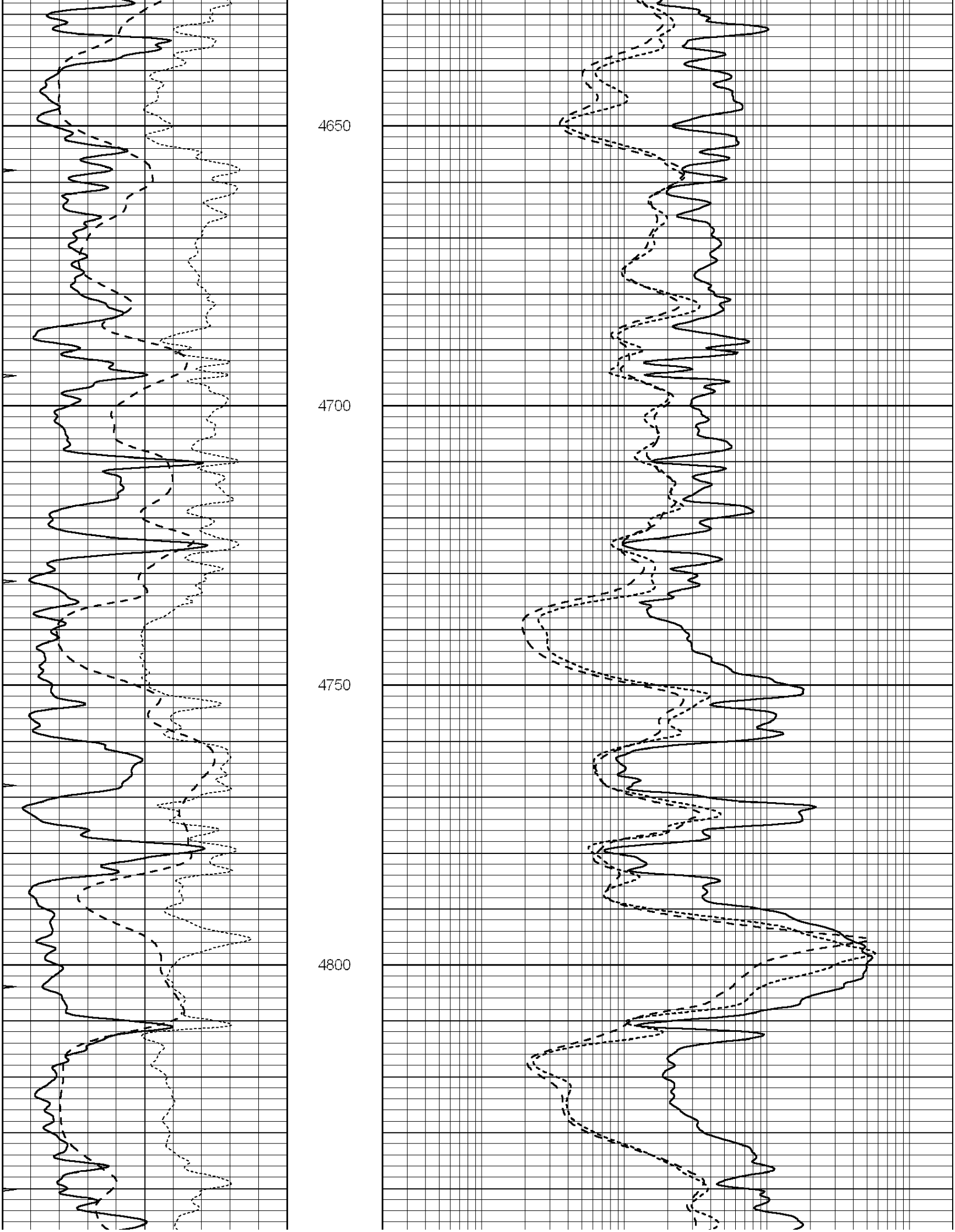
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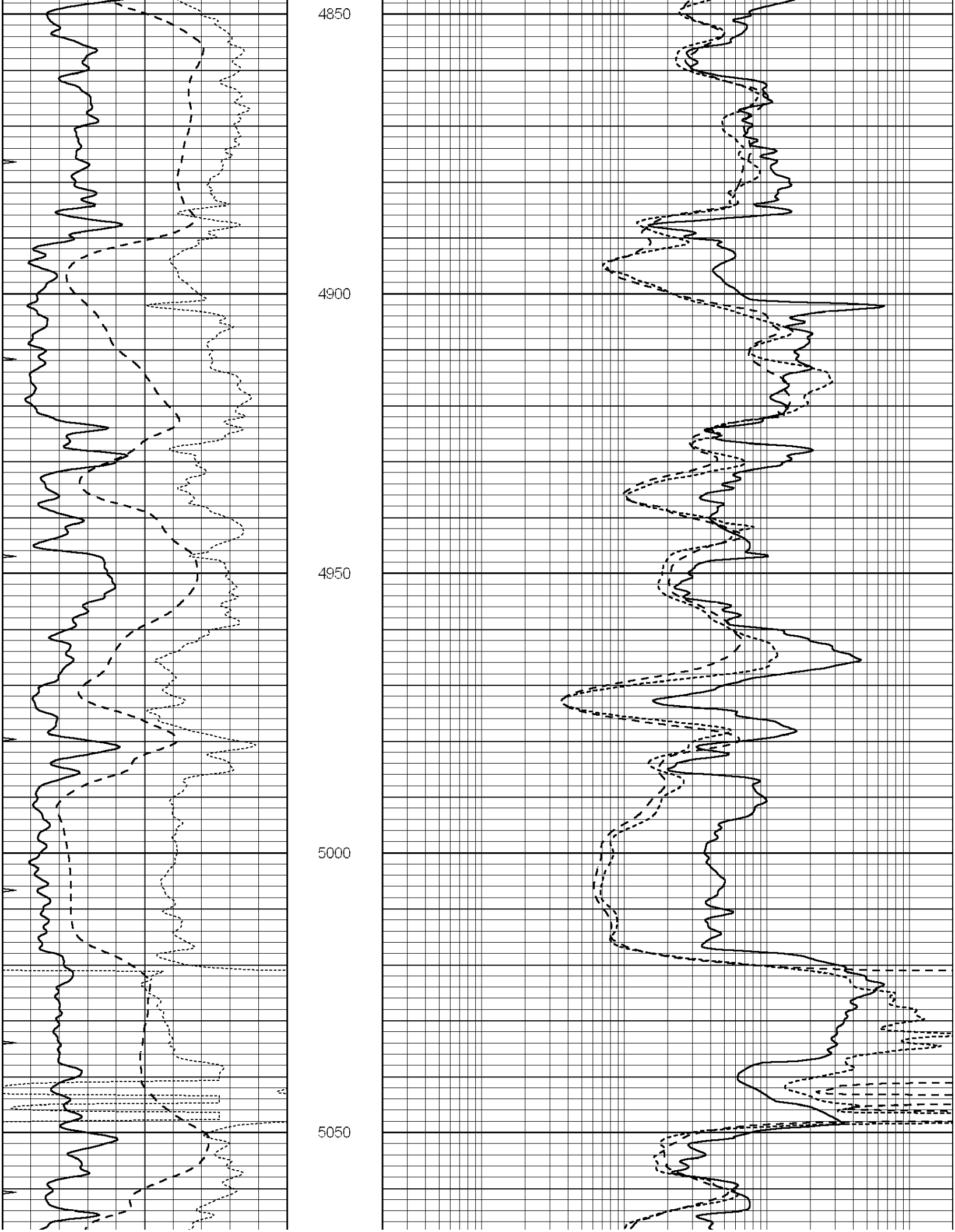
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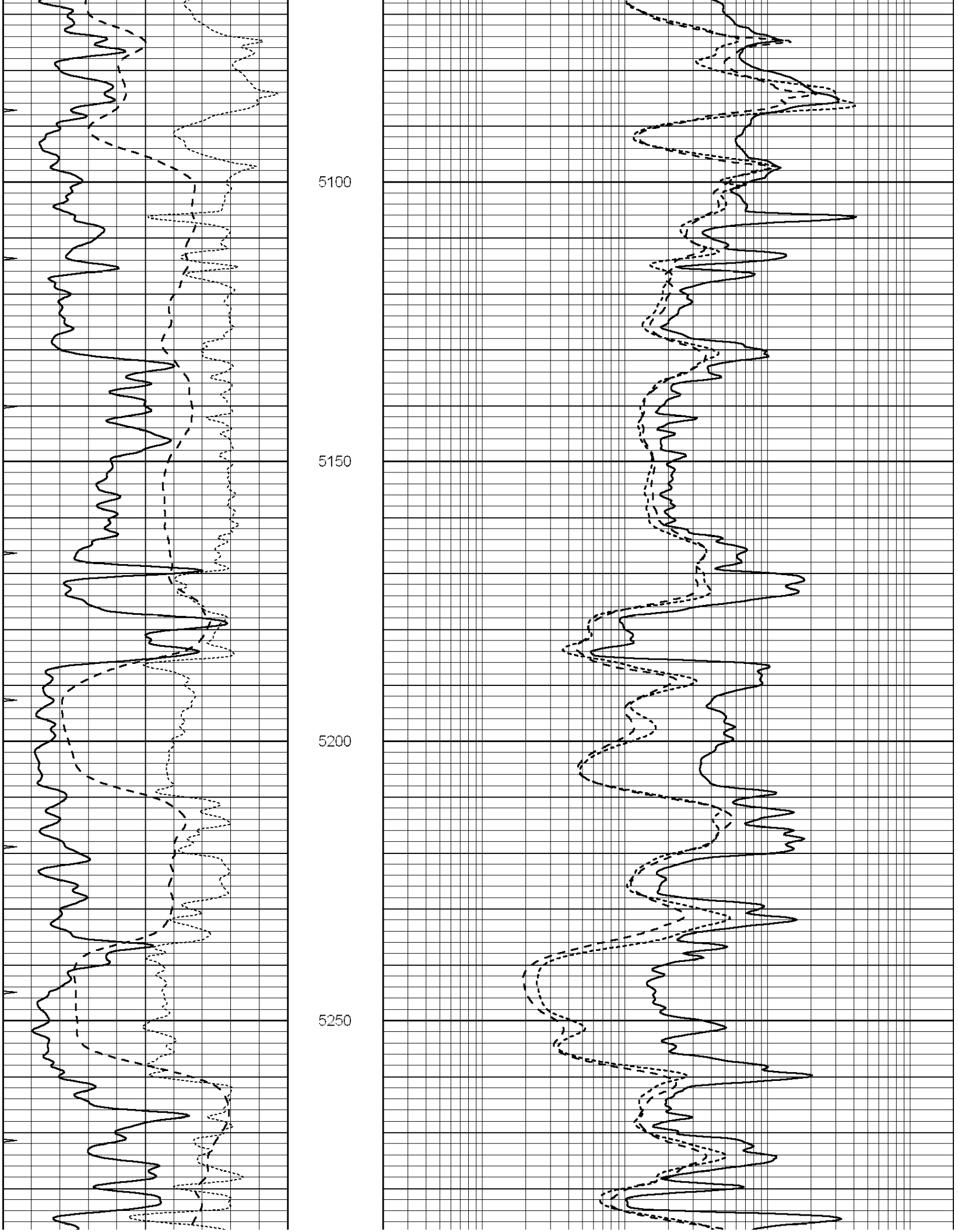
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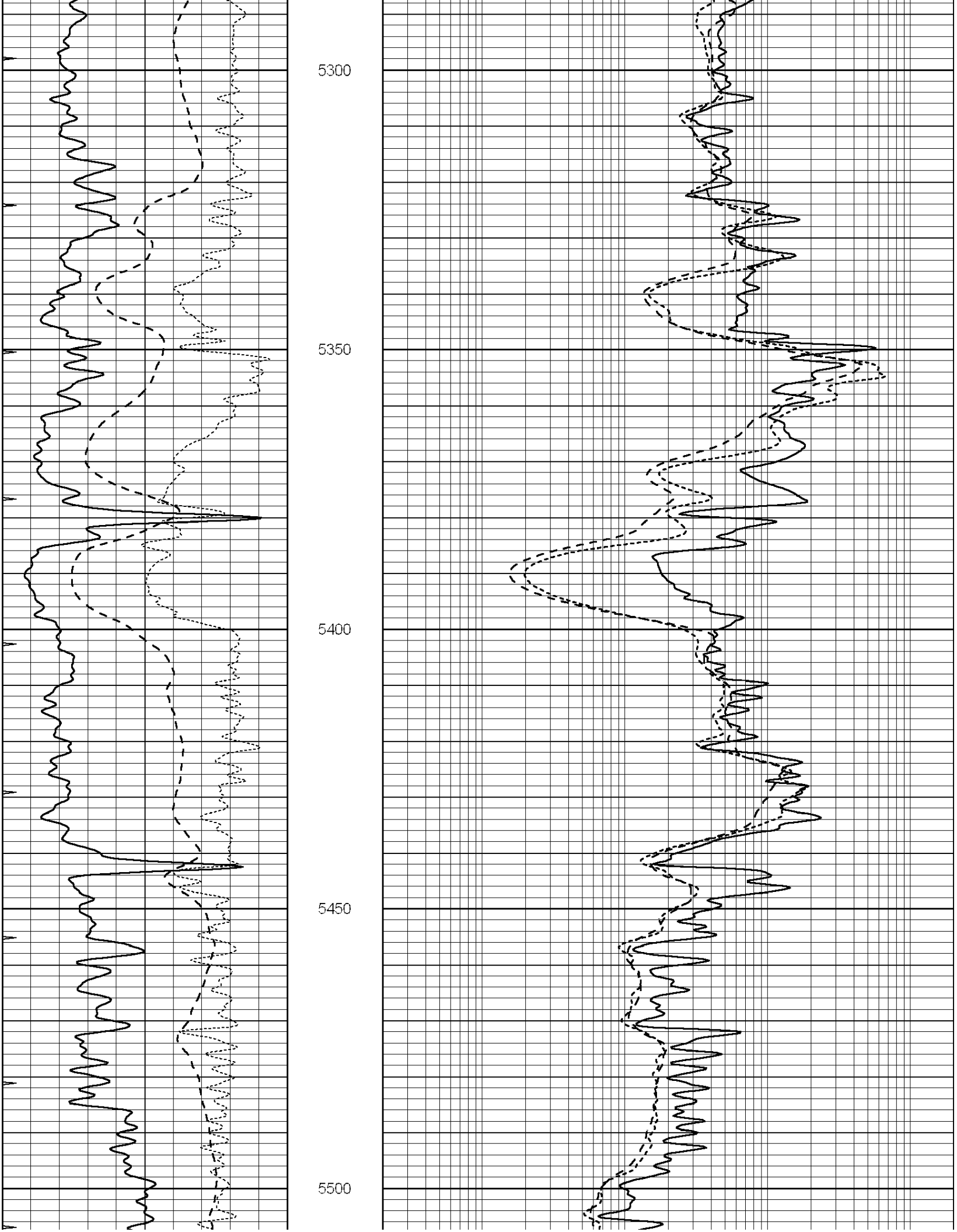
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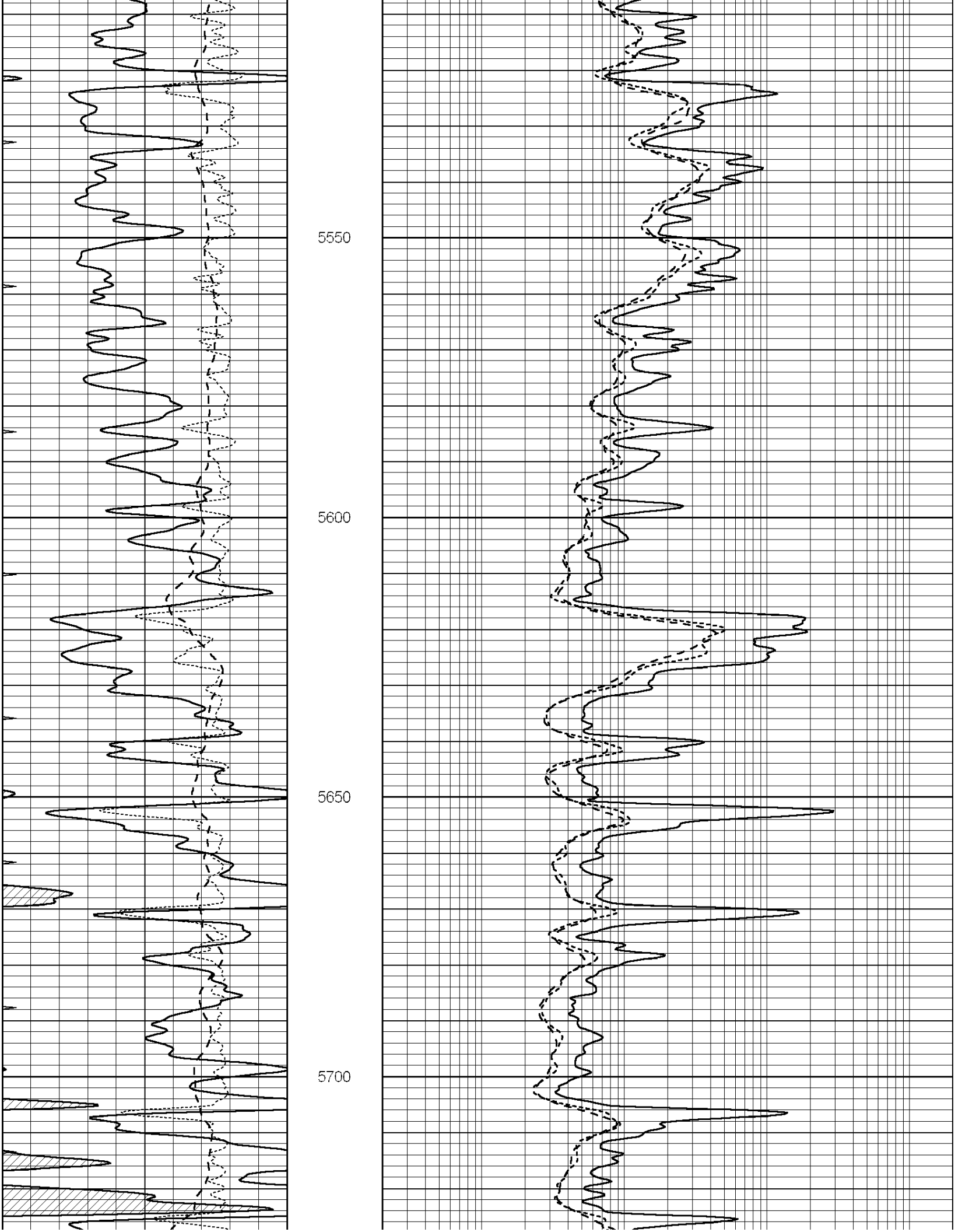
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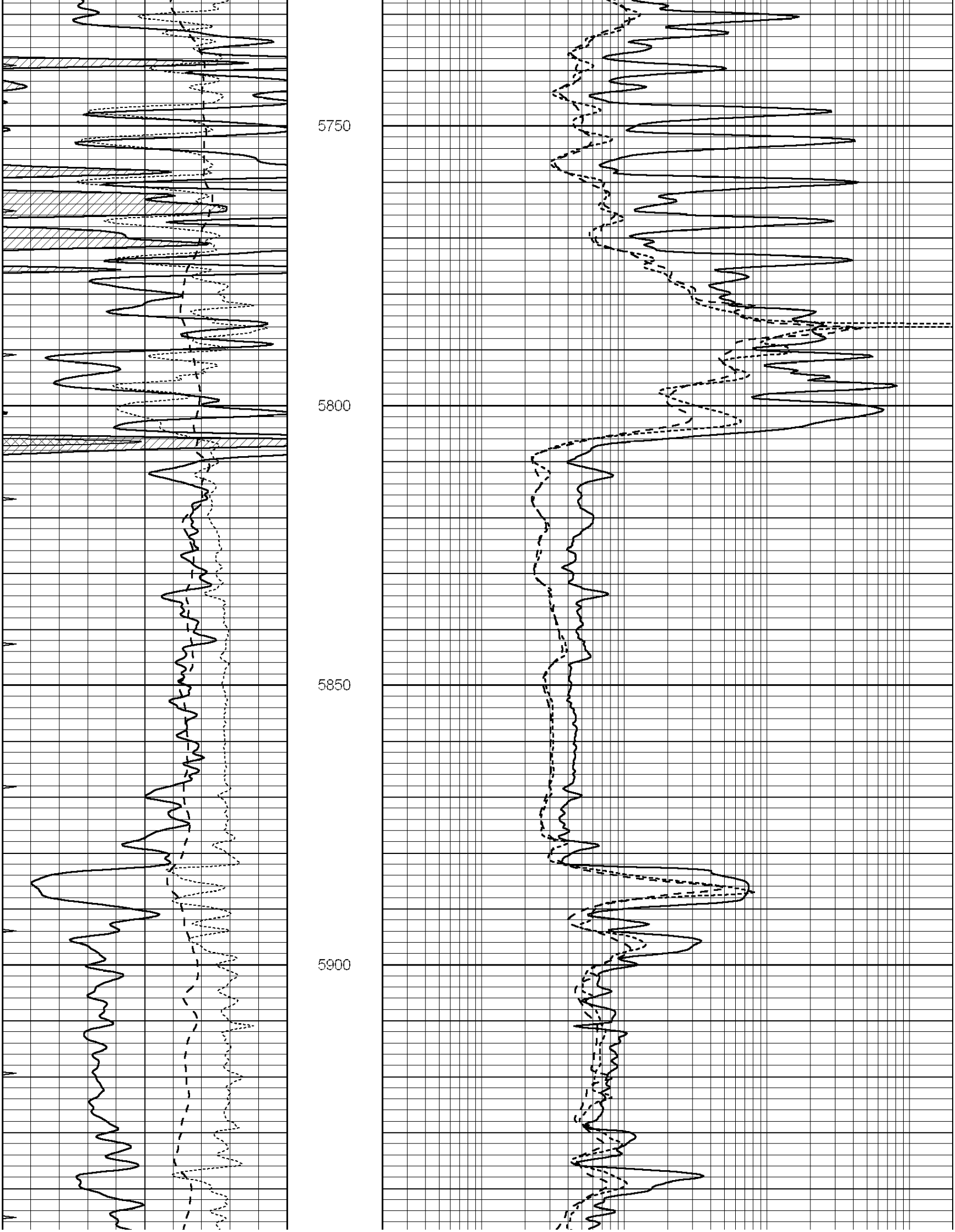
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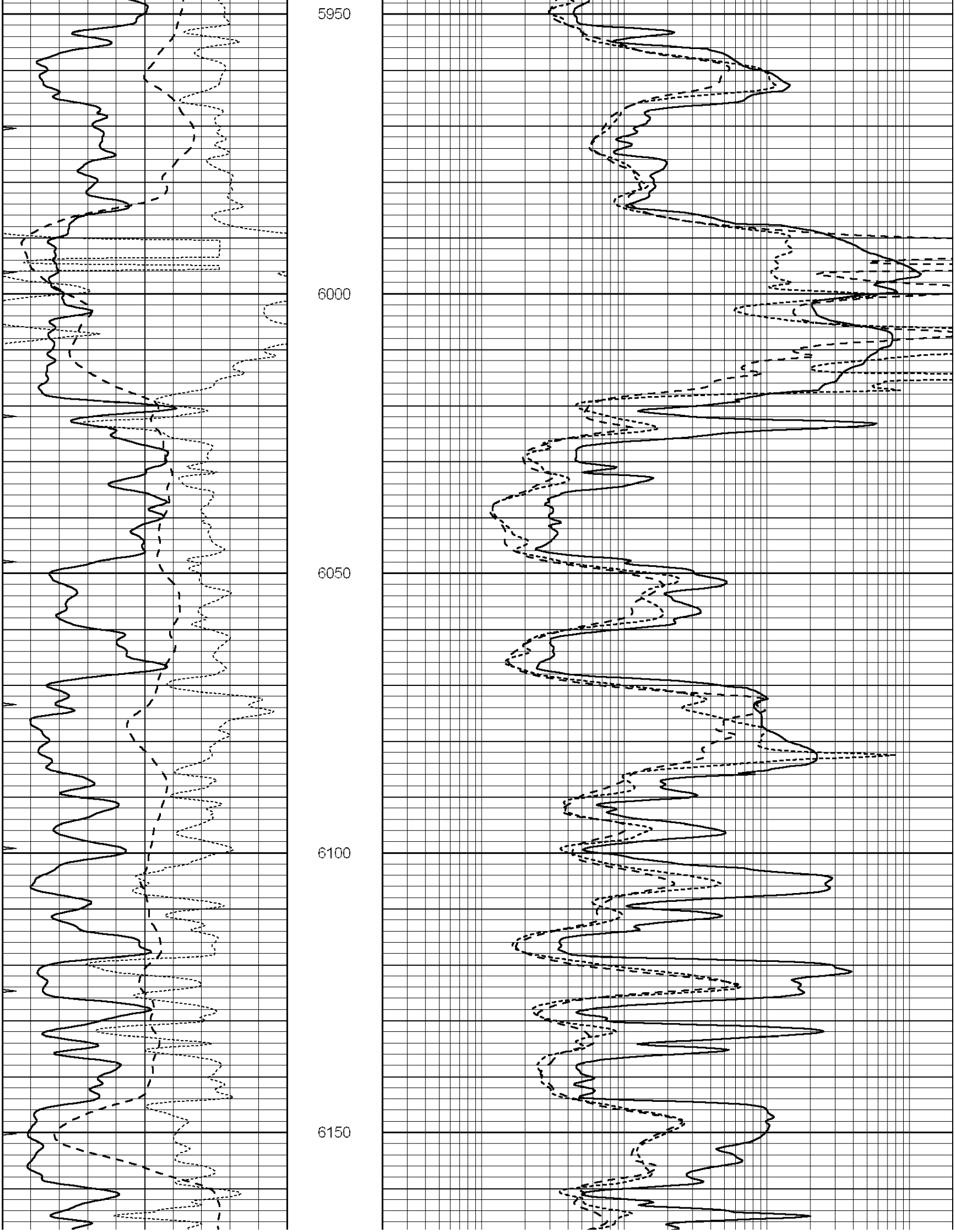
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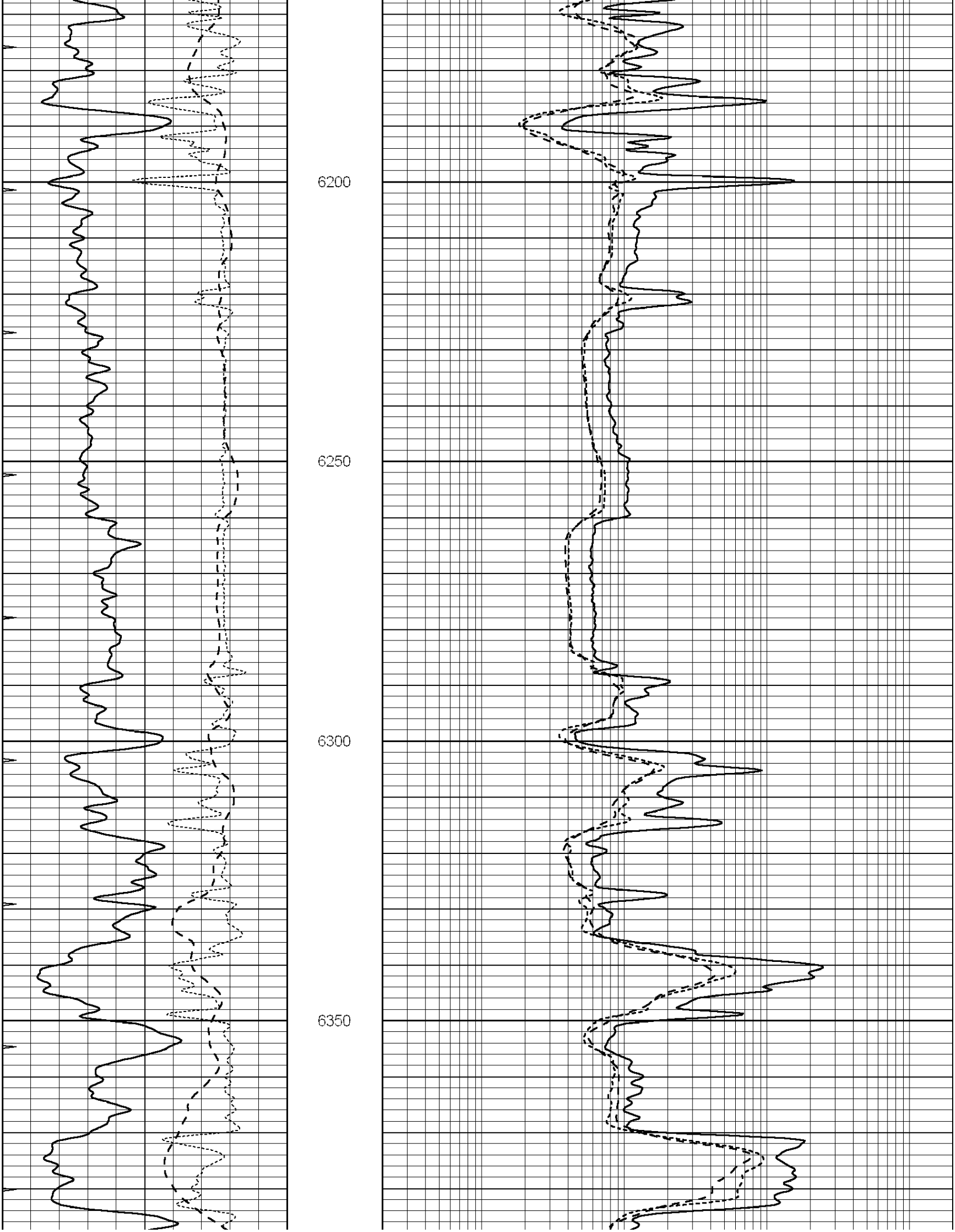
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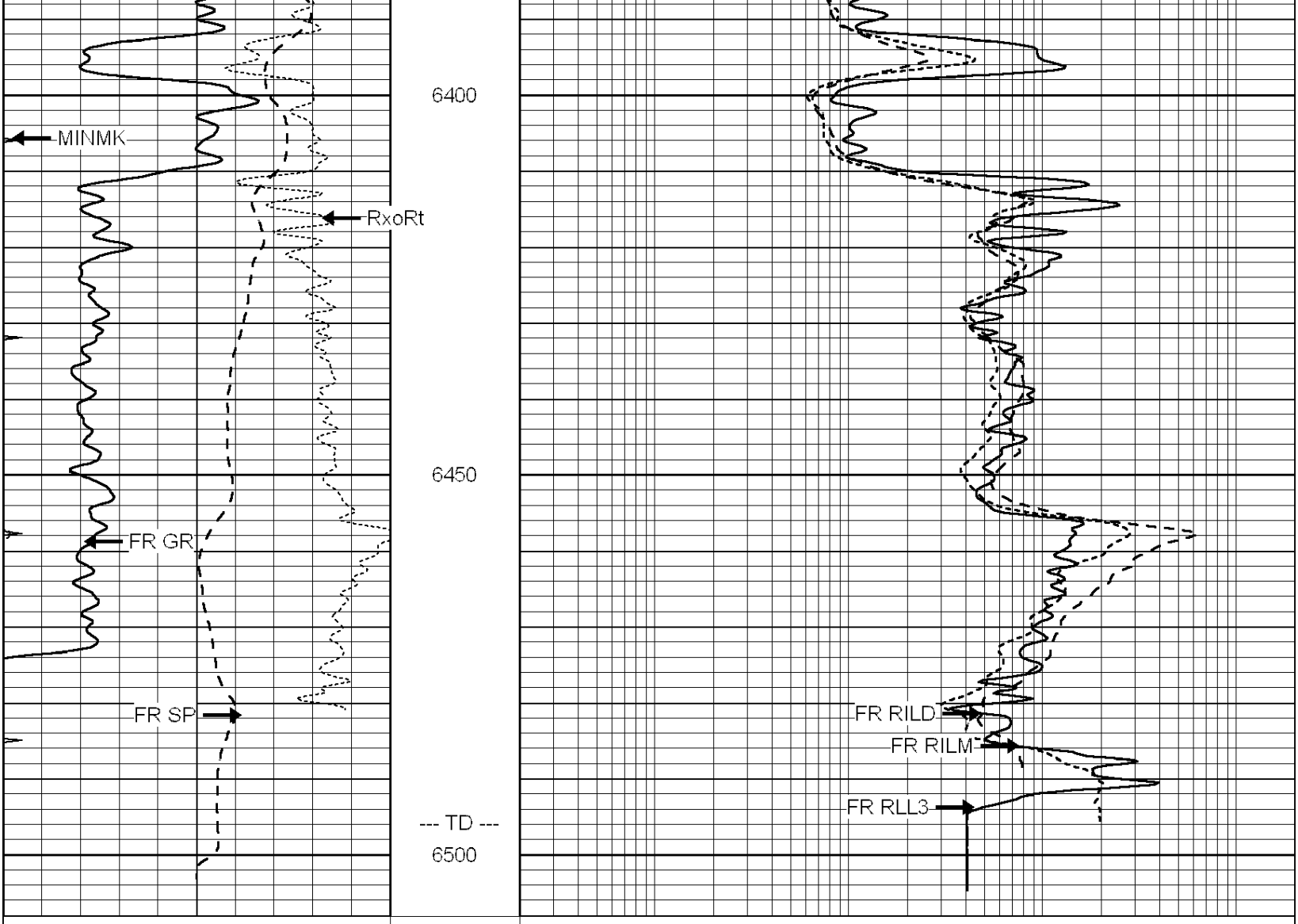


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

SUPERIOR WELL SERVICES

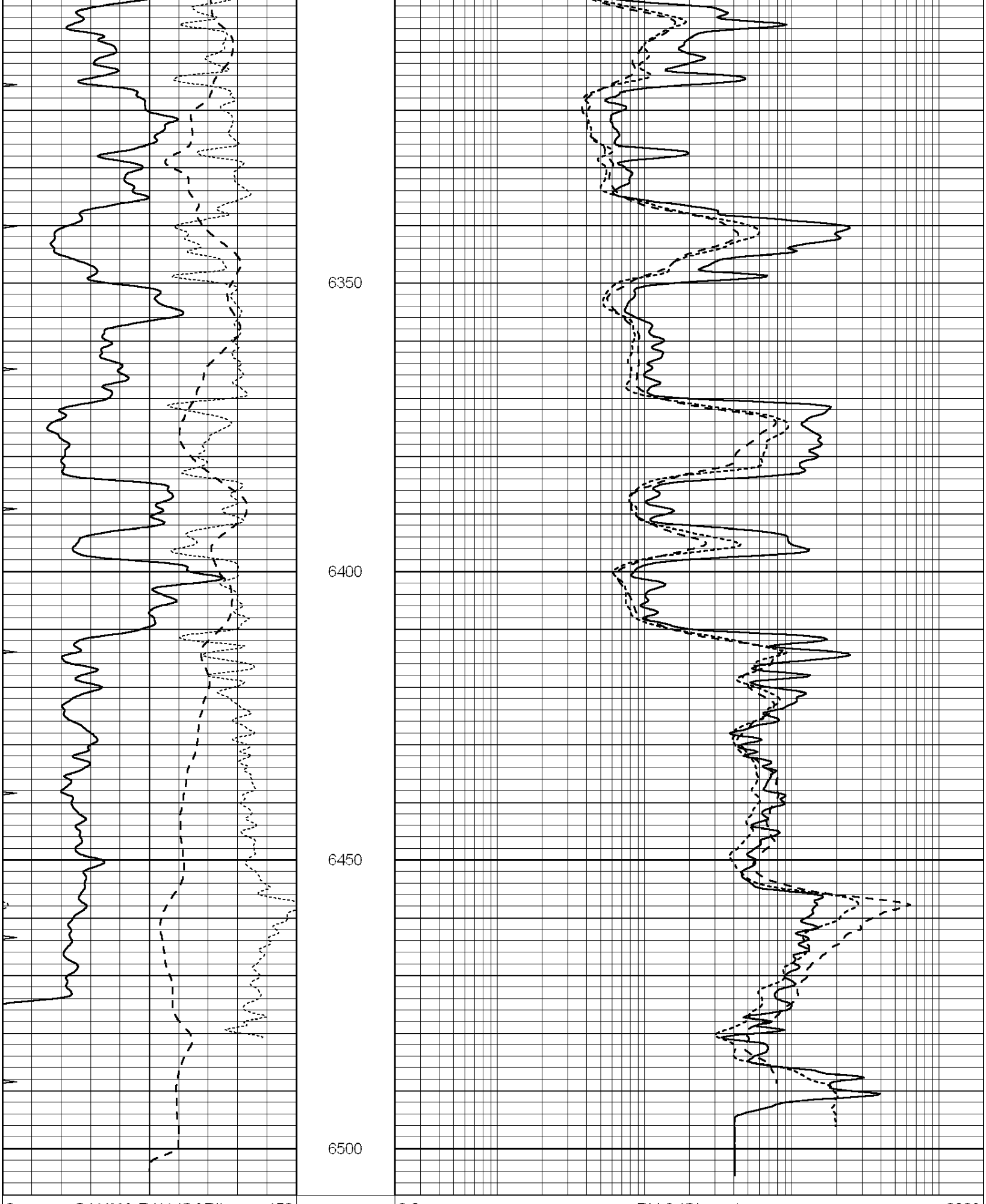
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File:	007743pdn.db
Dataset Pathname:	pass2A
Presentation Format:	dil
Dataset Creation:	Sat Sep 24 07:00:54 2011
Charted by:	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000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6400
6450
6500
0
GAMMA RAY (GAPI)
150
-100
SP (mV)
100
-250
RxoRt
50
0.2
RLL3 (Ohm-m)
2000
0.2
DEEP INDUCTION (Ohm-m)
2000
0.2
MEDIUM INDUCTION (Ohm-m)
2000

0	MINMK	20

Calibration Report

Database File: 007743pdn.db
Dataset Pathname: pass3.A
Dataset Creation: Sat Sep 24 06:52:12 2011

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
Performed: Sat Sep 24 03:51:46 2011

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	540.000	-16.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	560.000	-10.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho/m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho/m	627.607	-6.064

Litho Density Calibration Report

Serial: 06 Model: PRB
Performed Sat Sep 18 11:23:16 2010

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1677.0	8474.2	3299.9	9504.5	cps
Window 2	1525.0	6779.0	2711.9	7351.0	cps
Window 3	1198.9	3611.8	1704.2	3781.8	cps
Window 4	336.9	328.0	323.1	310.2	cps
Long Space	0.0	5253.9	1186.8	5825.9	cps
Short Space	2.0	1697.0	1111.9	1788.5	cps
Rho		1.7100	2.5960	1.3800	g/cc
Pe			2.5700	1.5500	

Rib Angle	: 44.1	Rib Slope	: 0.970	Density/Spine Ratio	: 0.573
Spine Angle	: 74.1	Spine Slope	: 3.519	Spine Intercept	: -17.6

Caliper

	Readings	Reference
Low Ref	3.9	8.4
High Ref	5.6	14.0
	Gain: 3.3	Offset: -4.8

Compensated Neutron Calibration Report

Serial Number: NUE_2I
Tool Model: G

CALIBRATION

Detector	Readings		Target		Normalization
Short Space	1.00	cps	1.00	cps	1.0000
Long Space	1.00	cps	1.00	cps	1.0000

Gamma Ray Calibration Report

Serial Number:	GR5	
Tool Model:	OPEN	
Performed:	Sat Sep 24 03:50:49 2011	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6500	GAPI/cps