NABORS
COMPLETION & PRODUCTION SERVICES CO.

DUAL INDUCTION LOG

Company CASTELLI EXPLORATION, INC.
Well GREGG #2-13
Field SHIMER
County COMANCHE State KANSAS

Company CASTELLI EXPLORATION, INC.
Well GREGG #2-13
Field SHIMER
County COMANCHE
State KANSAS

Location: API # : 15-033-21692-0000

1980 FSL & 660 FEL
NE - SE

SEC 13 TWP 33S RGE 17W

Other Services
CDL/CNL/PE
MEL

Permanent Datum GROUND LEVEL Elevation 1862
Log Measured From KELLY BUSHING 18' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1880
D.F. 1880
G.L. 1862

Date	01/25/2013		
Run Number	ONE		
Depth Driller	5250		
Depth Logger	5262		
Bottom Logged Interval	5260		
Top Log Interval	0		
Casing Driller	316		
Casing Logger	316		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 46	CHLORIDES 6,000	
pH / Fluid Loss	10.0 / 9.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.95 @ 72F		
Rmf @ Meas. Temp	0.71 @ 72F		
Rmc @ Meas. Temp	1.14 @ 72F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	0.85 @ 127F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	127		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	JEFF GRONEWEG		
Witnessed By	RICK POPP		

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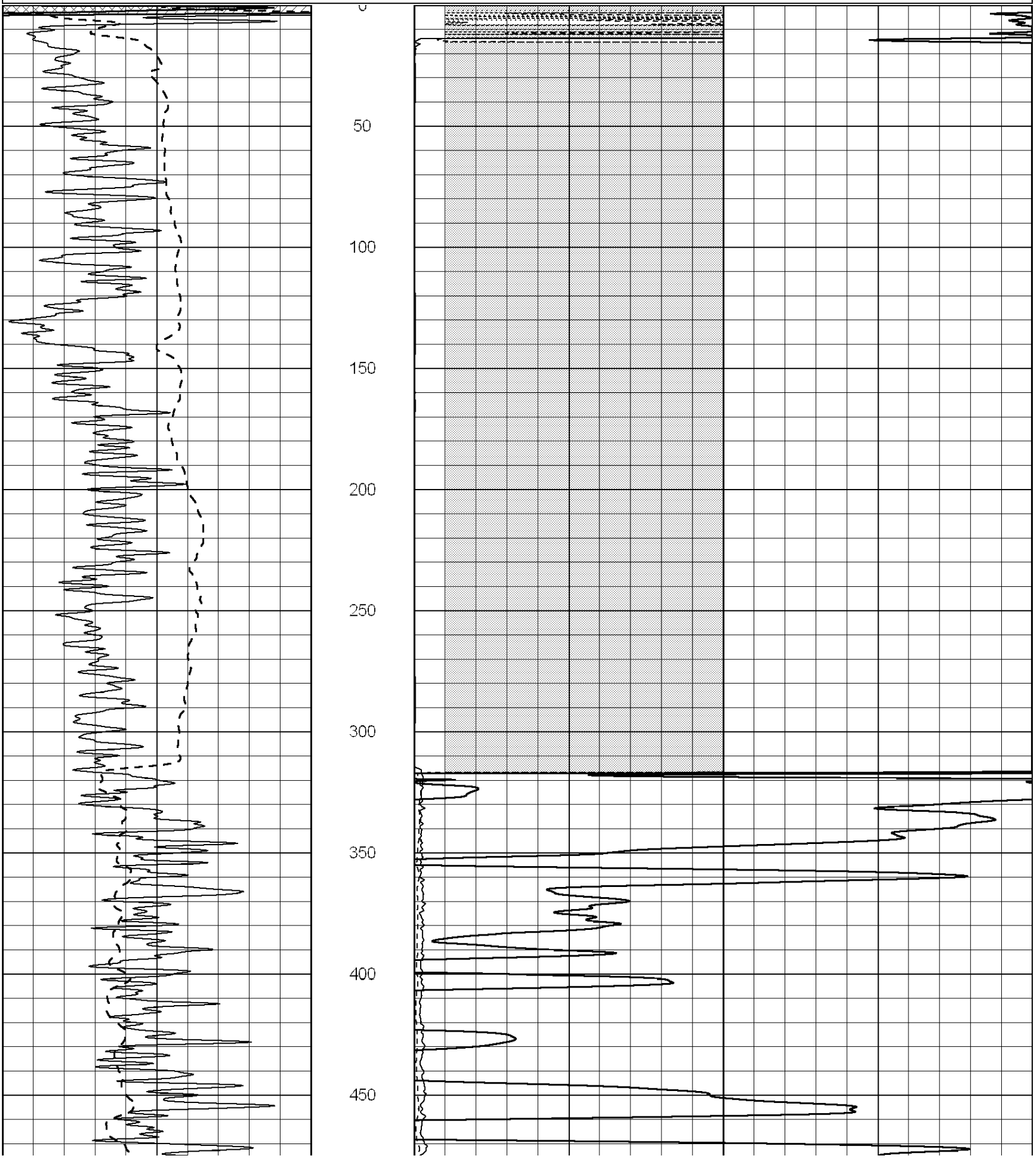
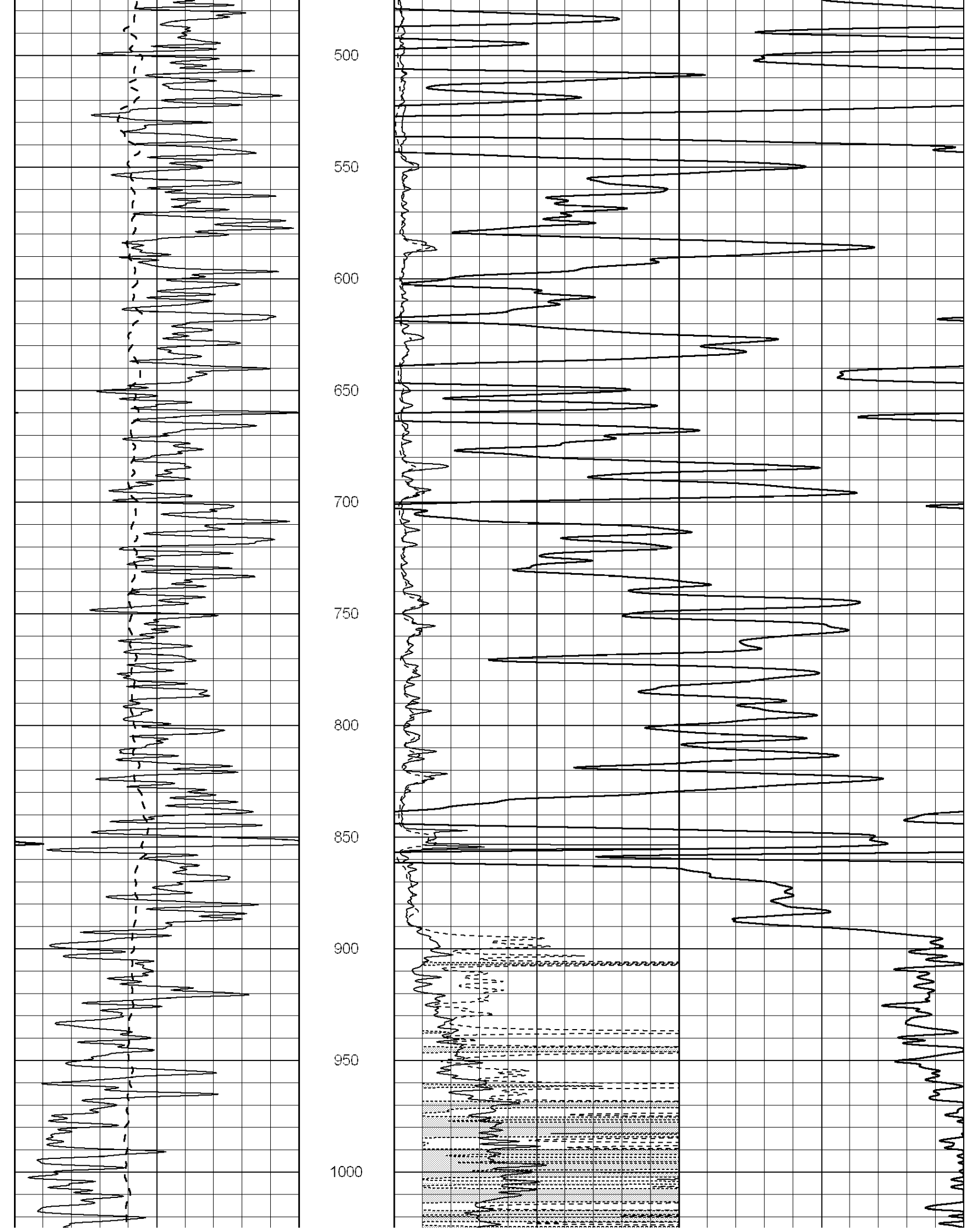
Comments

NABORS COMPLETION & PRODUCTION CO.
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: COLDWATER, KS - 9 MILES EAST ON HWY 160 TO RD 22 - 4 MILES SOUTH TO STOP SIGN - 2 MILES EAST TO CURVE - 3 MILES SOUTH TO WHITE SHED - GO WEST AND SOUTH INTO @ CURVE WEST OF WHITE SHED

Database File: 010659pe.db
Dataset Pathname: pass4.4
Presentation Format: dil2
Dataset Creation: Fri Jan 25 08:37:37 2013 by Calc Open-Cased 090629

Charted by: Depth in Feet scaled 1:600

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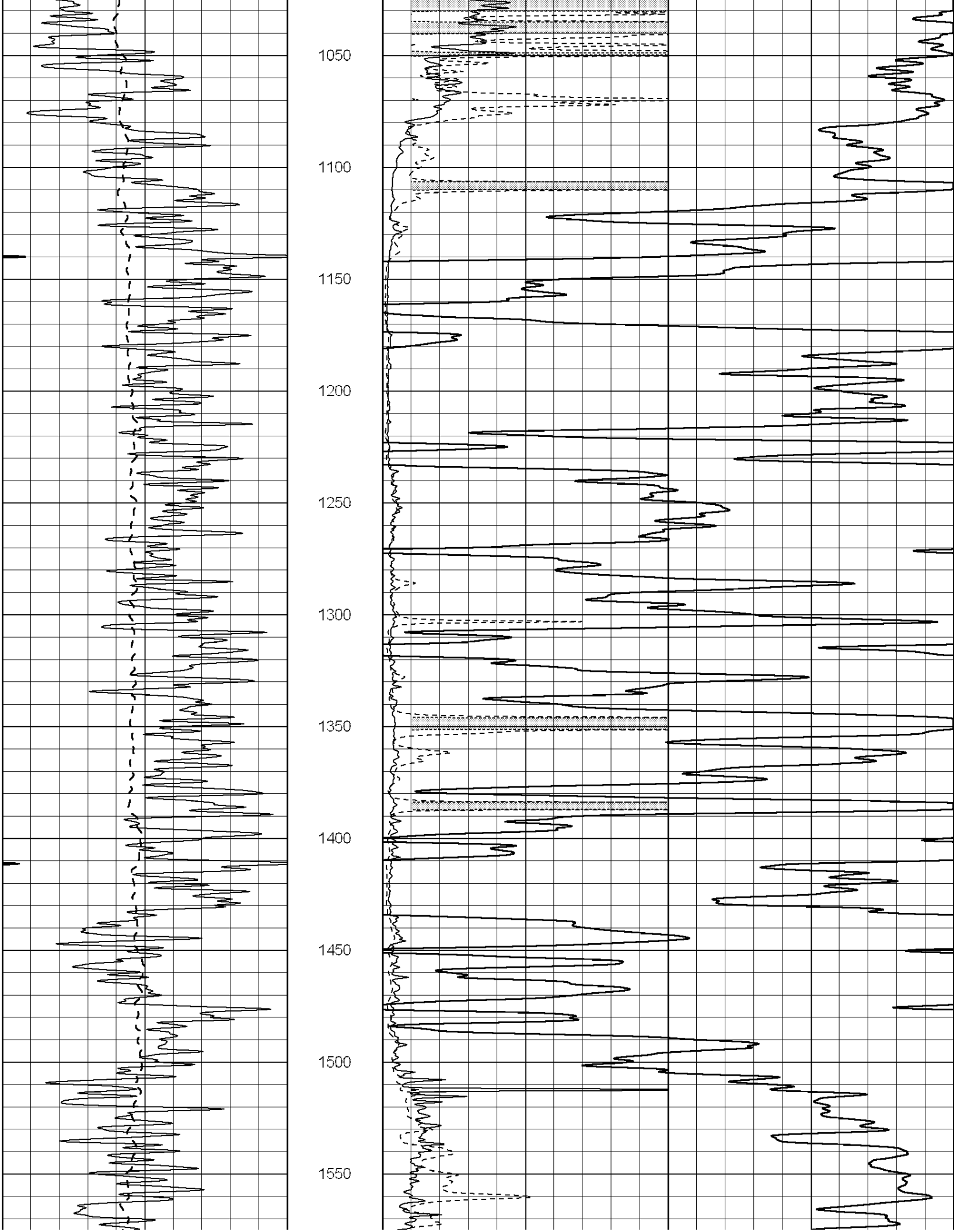
900
950
1000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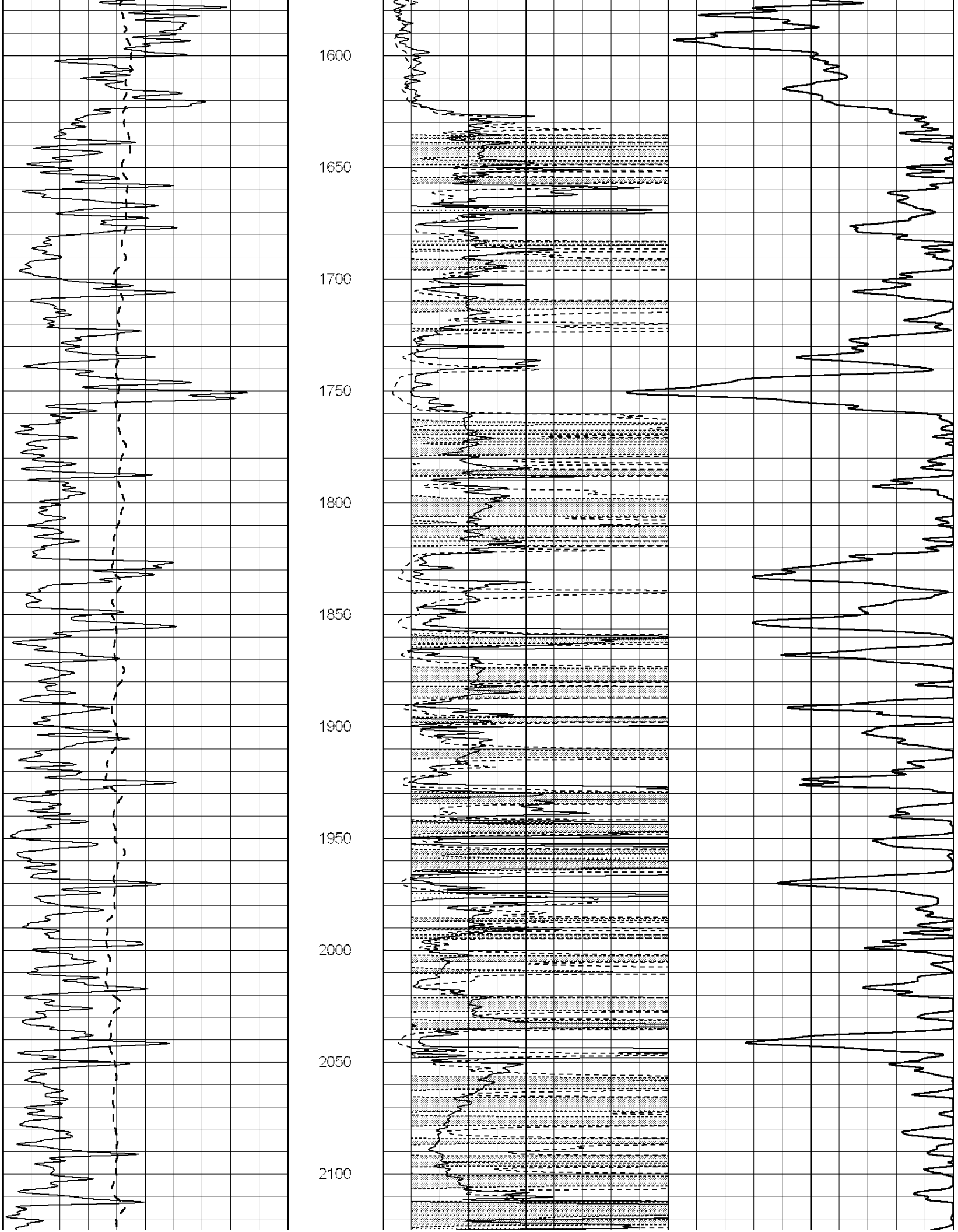
1200
1250
1300
1350
1400
1450
1500
1550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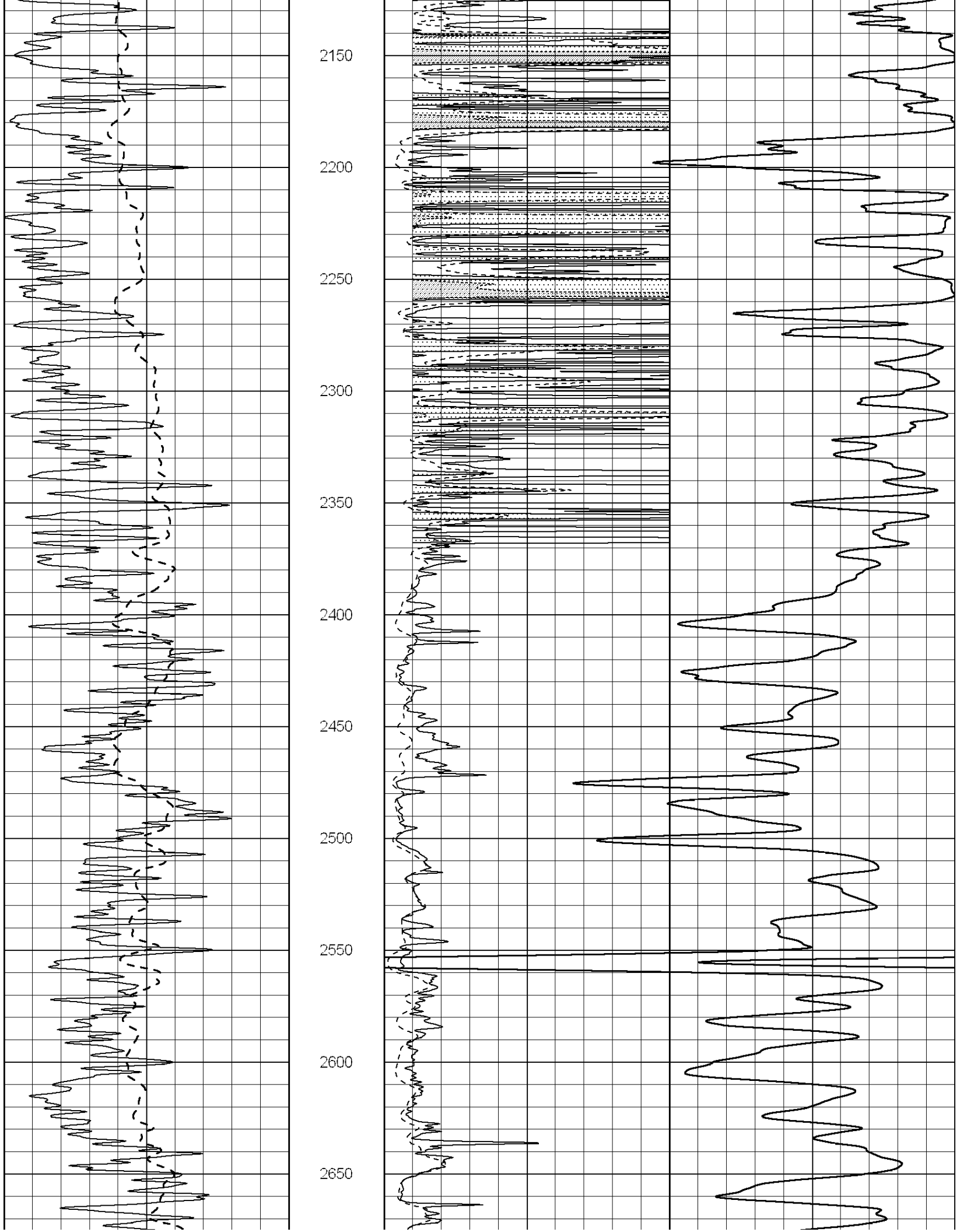
2050
2100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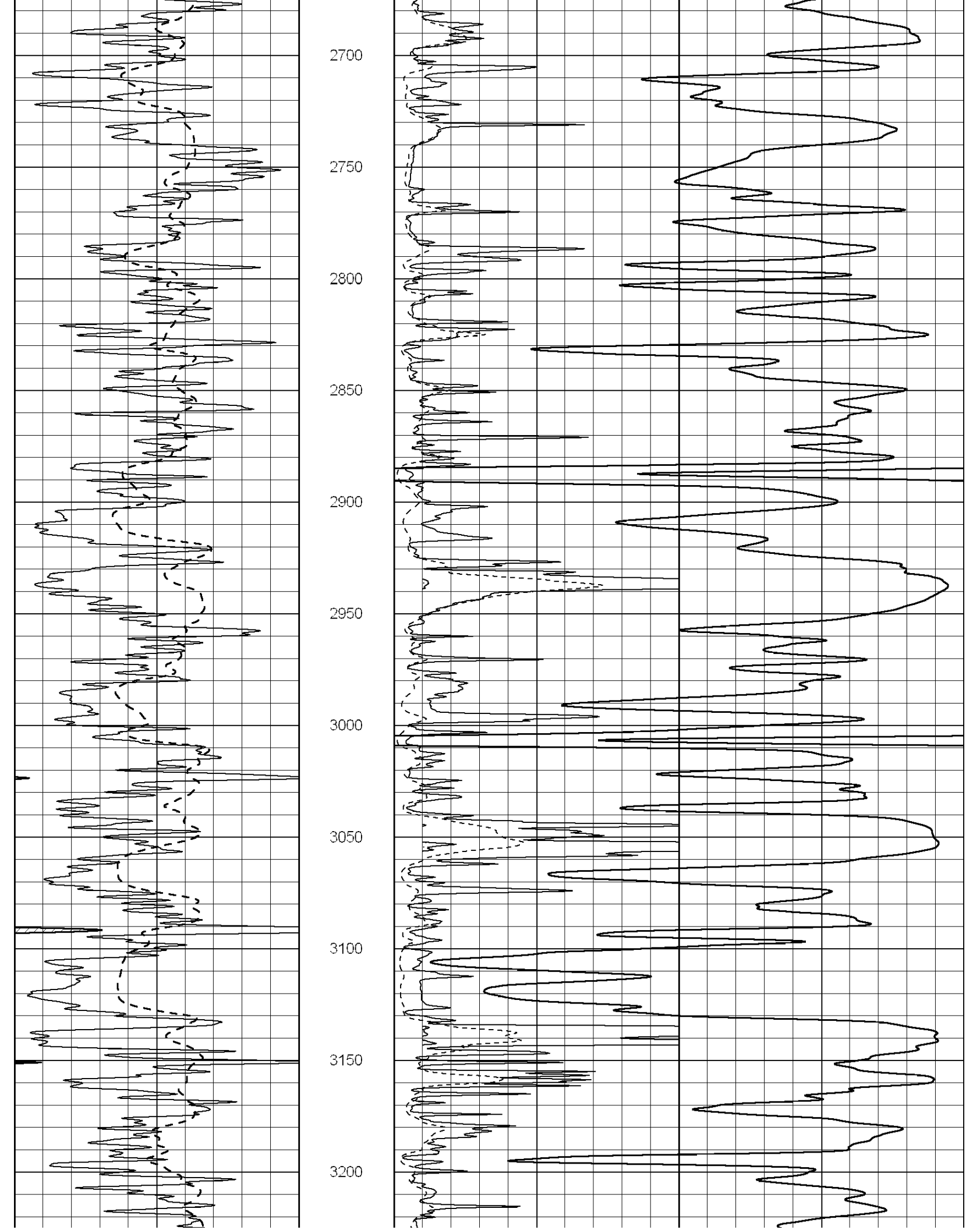
2350
2400
2450
2500
2550
2600
2650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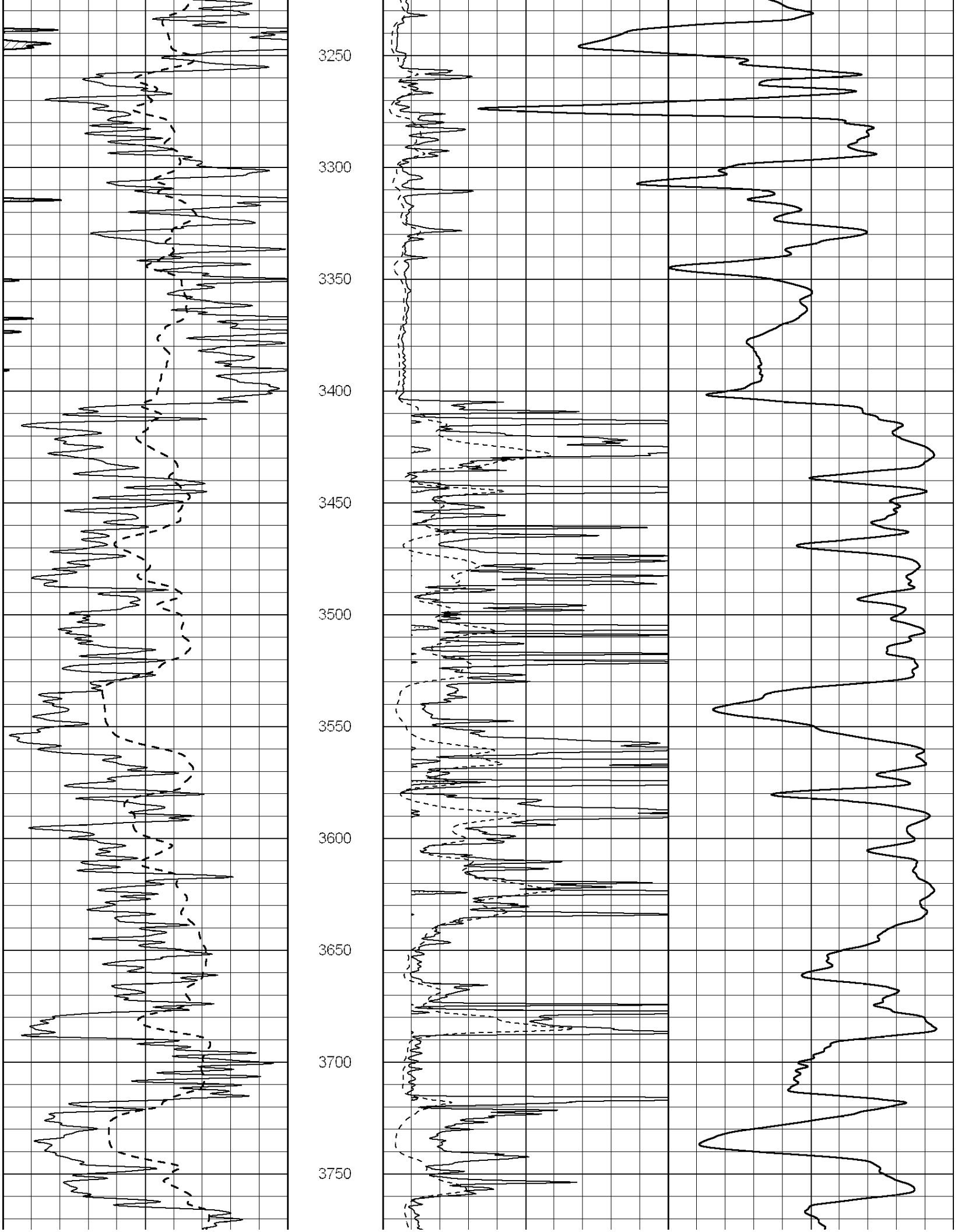
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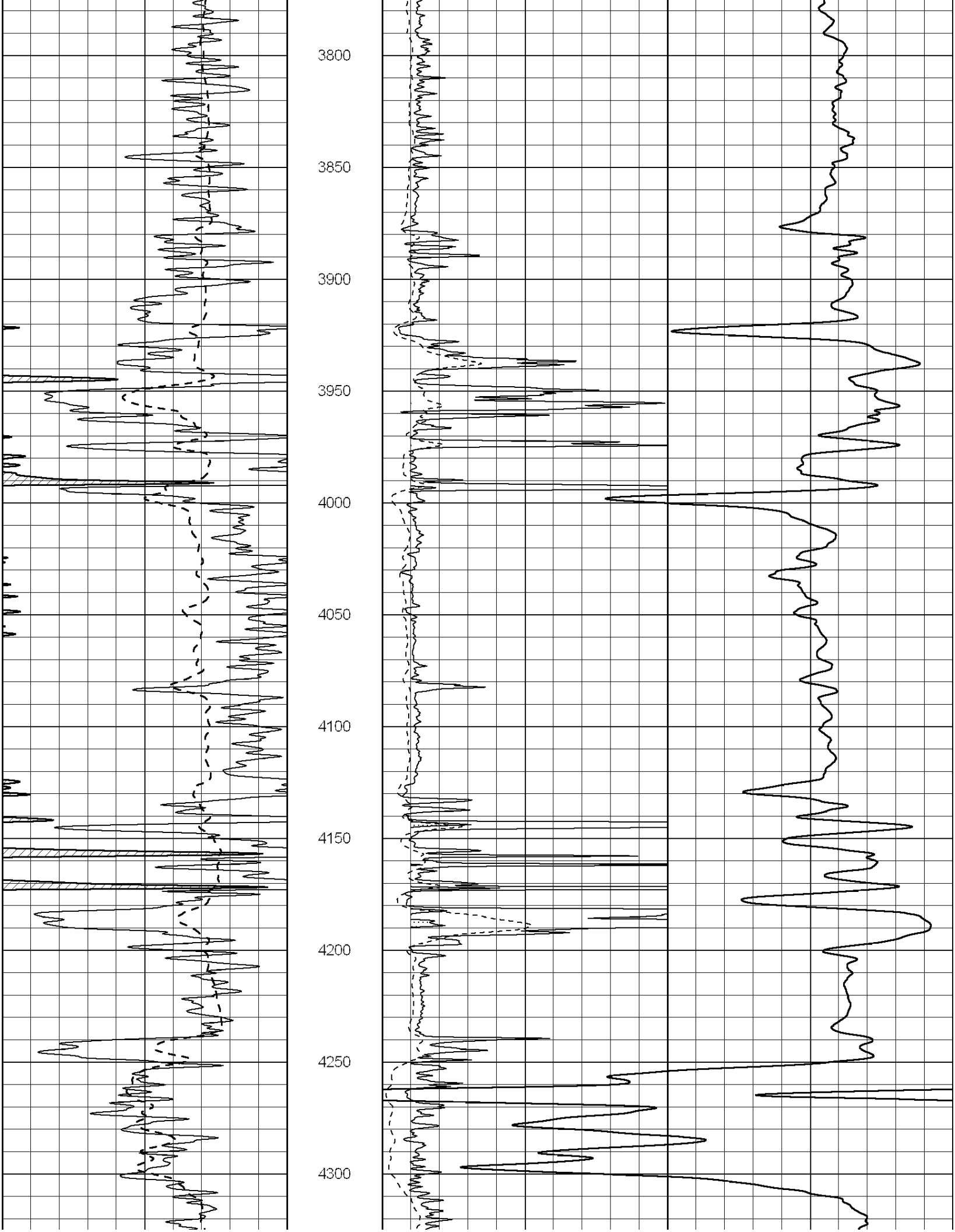
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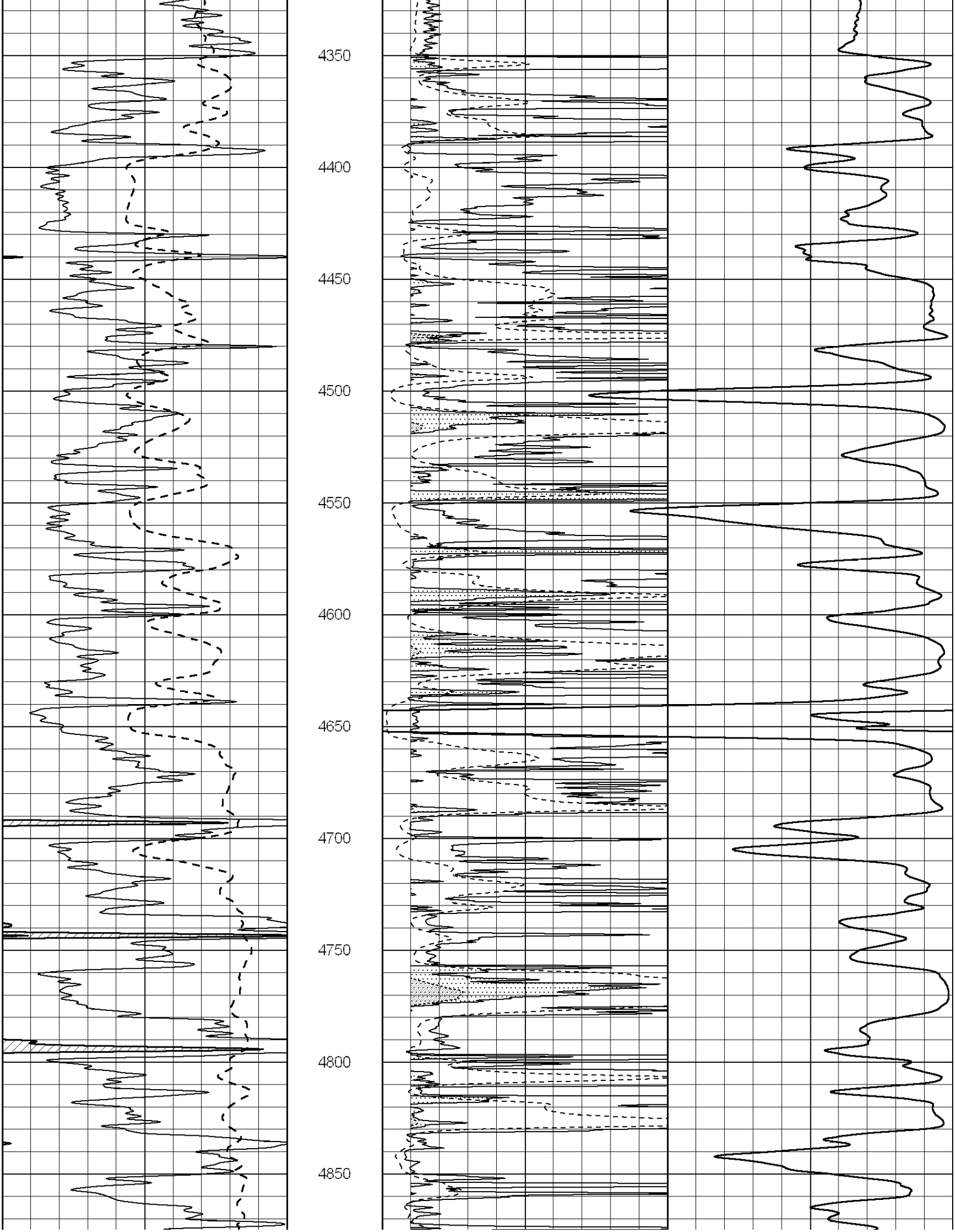
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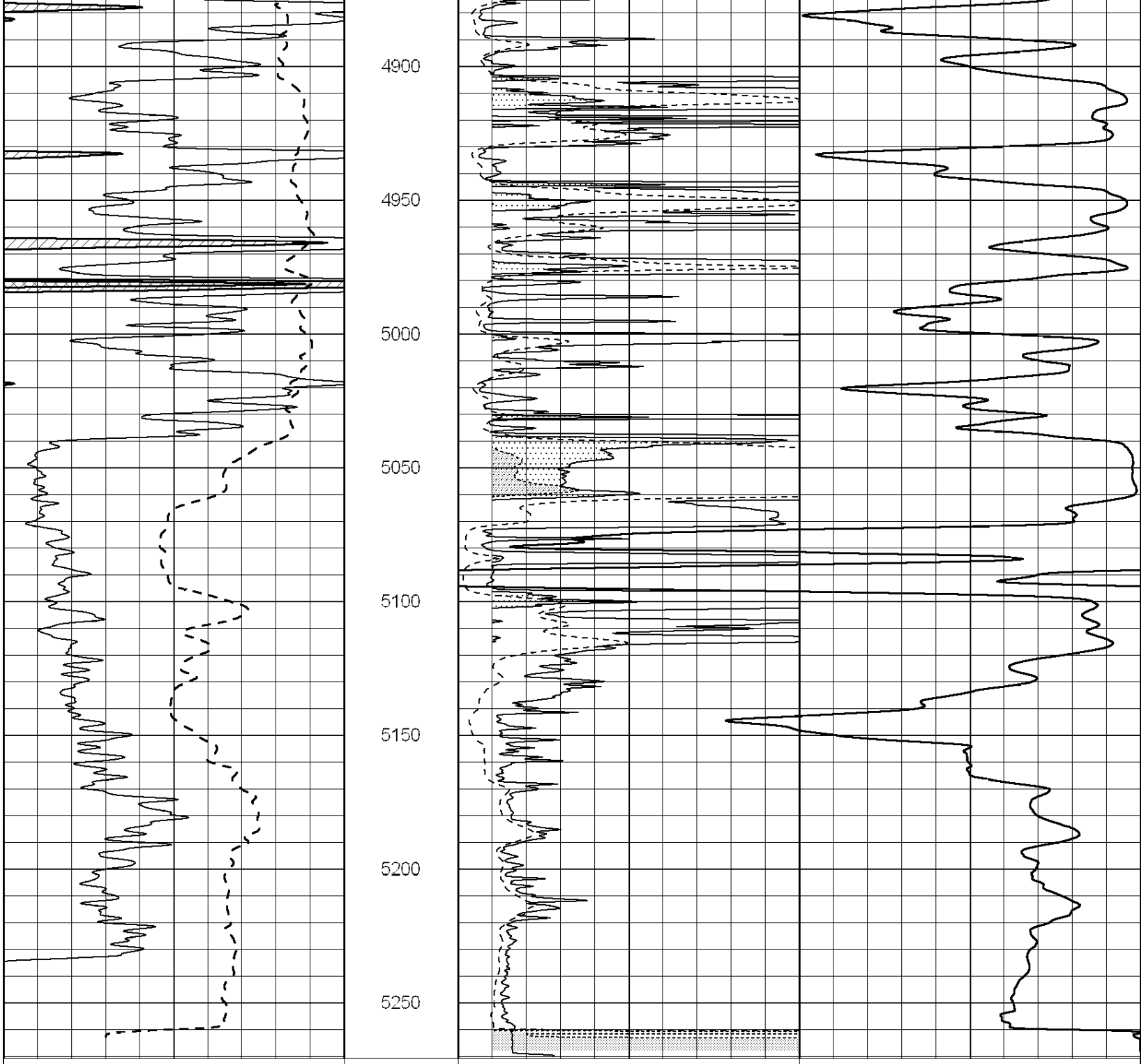


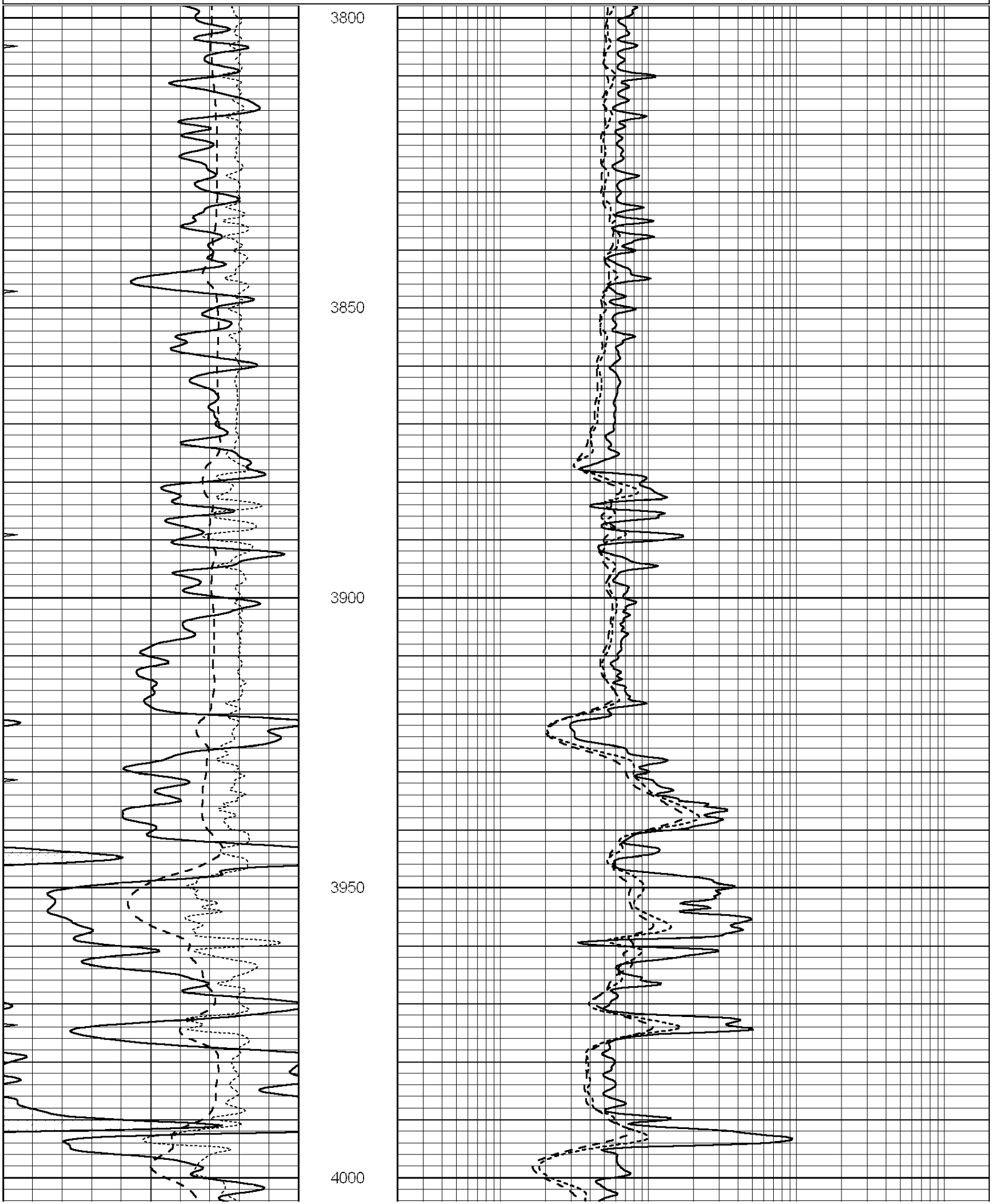
Database File:	010659pe.db
Dataset Pathname:	pass4.3
Presentation Format:	dil
Dataset Creation:	Fri Jan 25 07:38:57 2013 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240

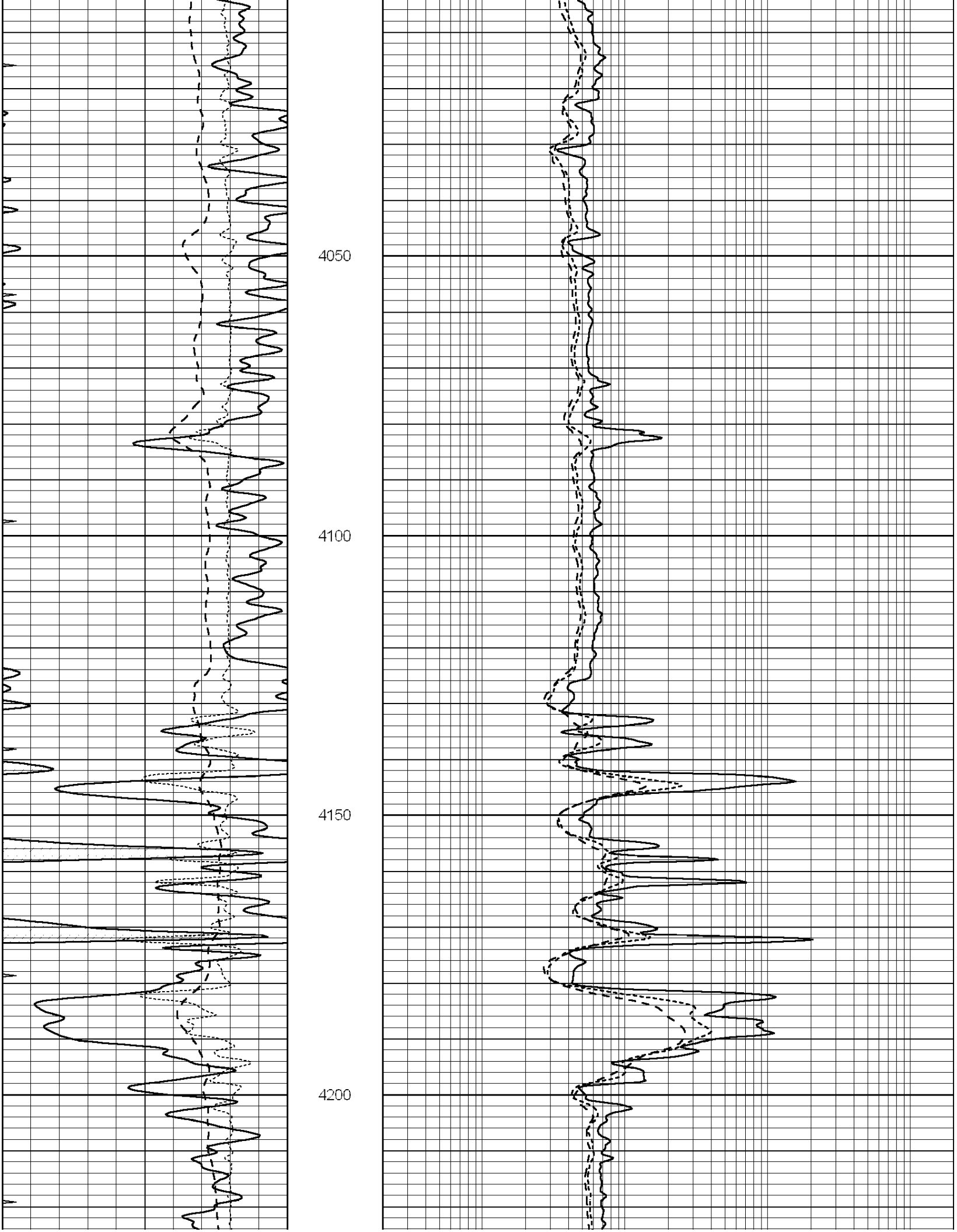
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
250	BitSiz	50

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

-250	Rx8Rt	50
0	MINMK	20

0.2	MEDIUM INDUCTION (Ohm-m)	2000

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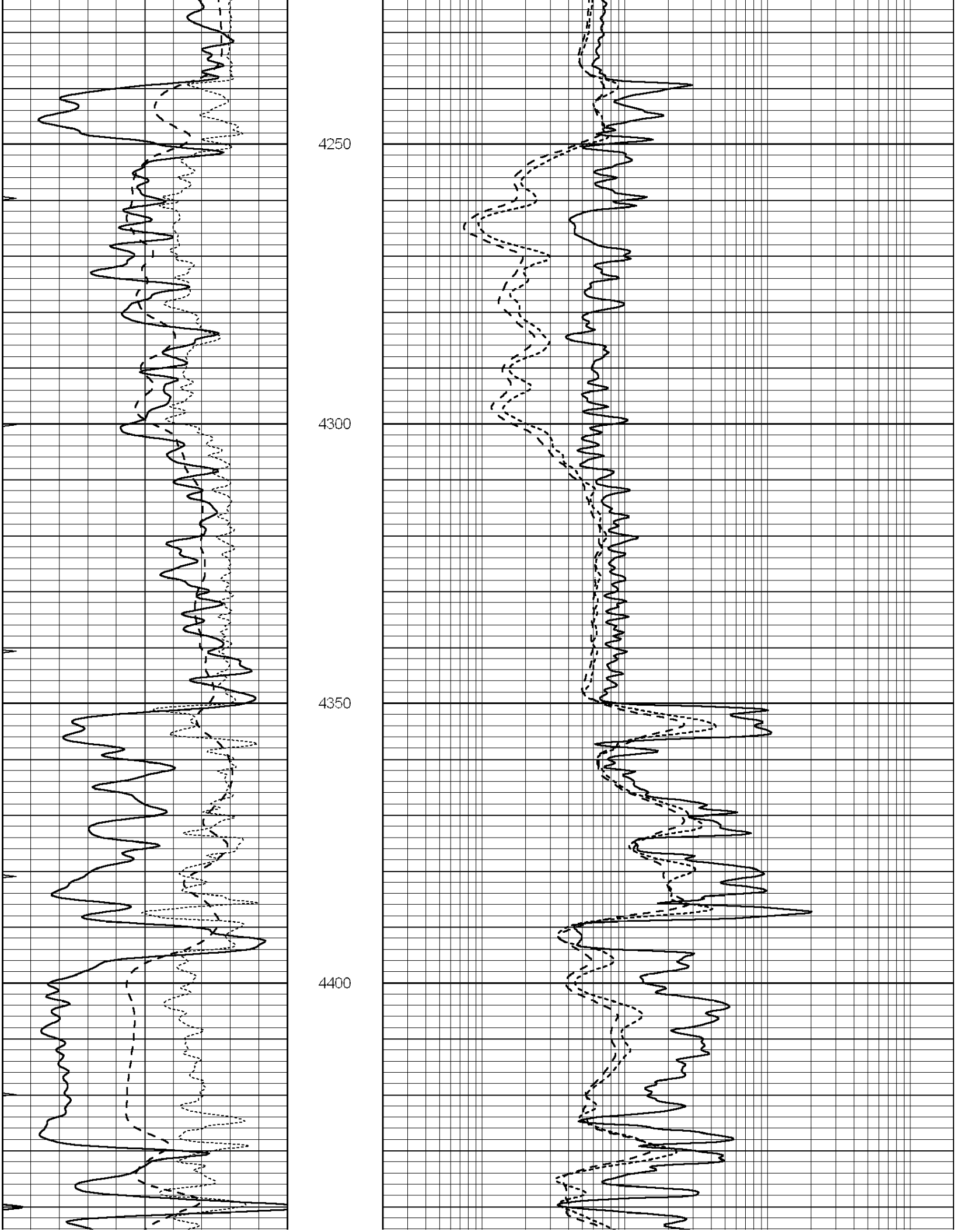
4150
4200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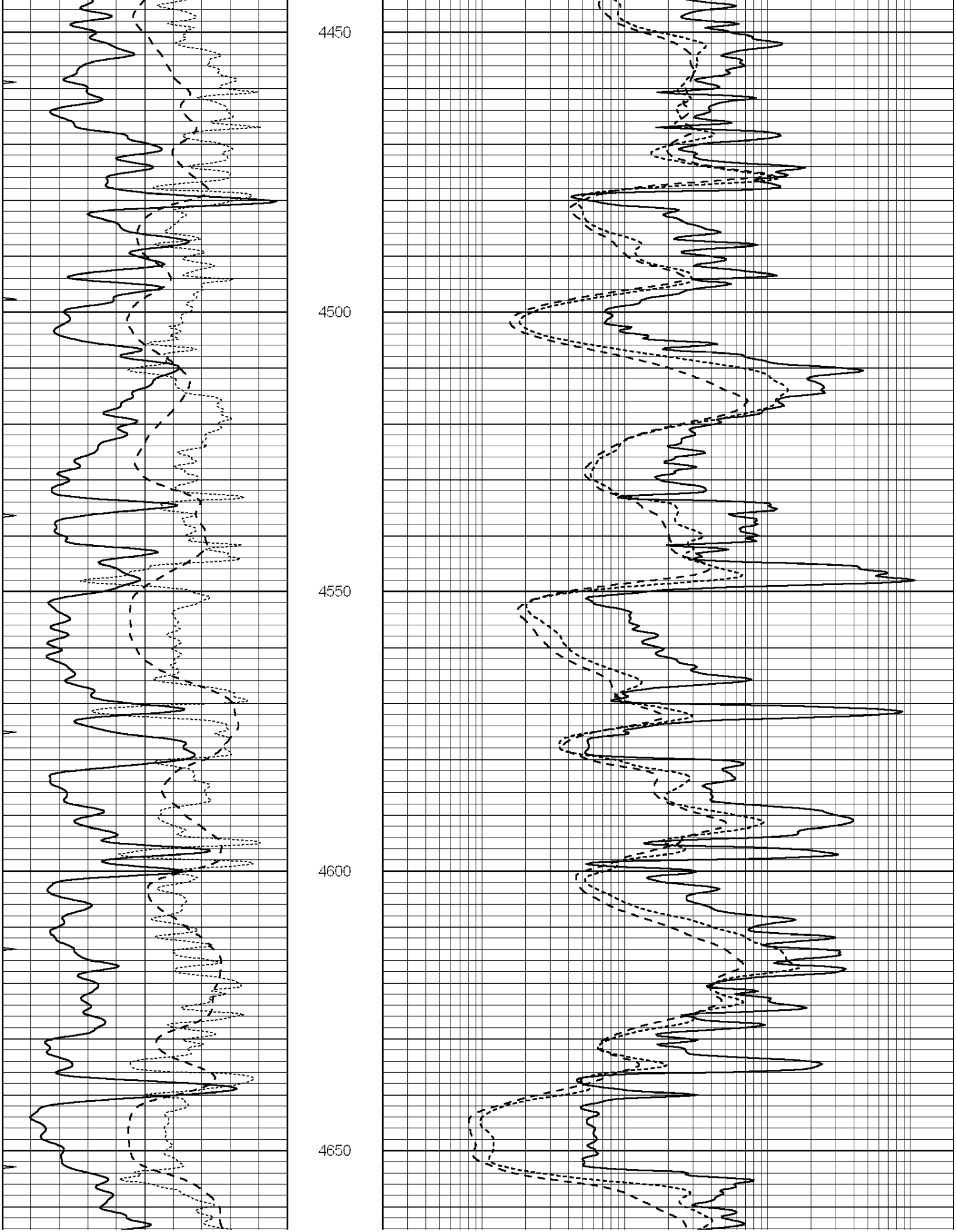
4400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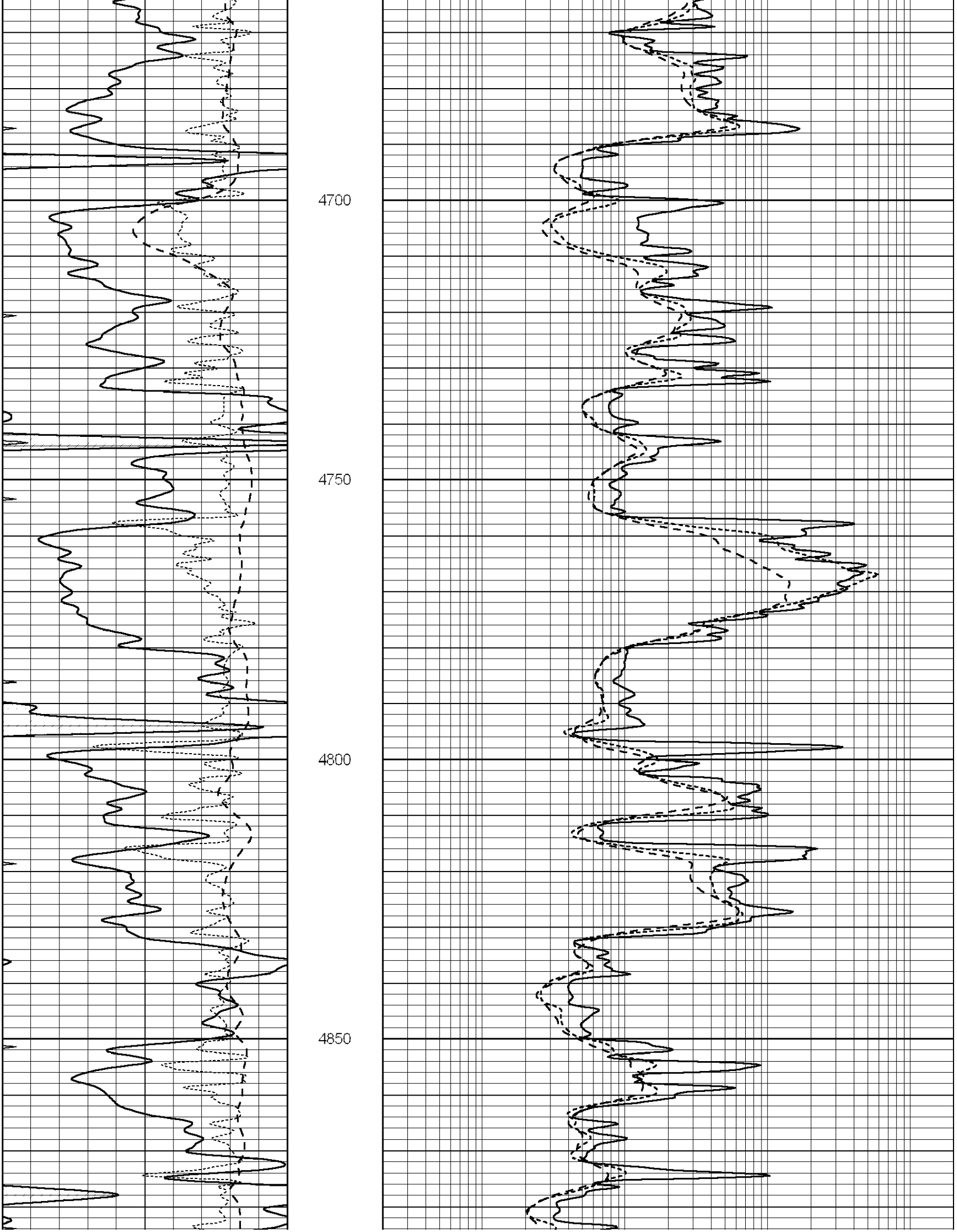
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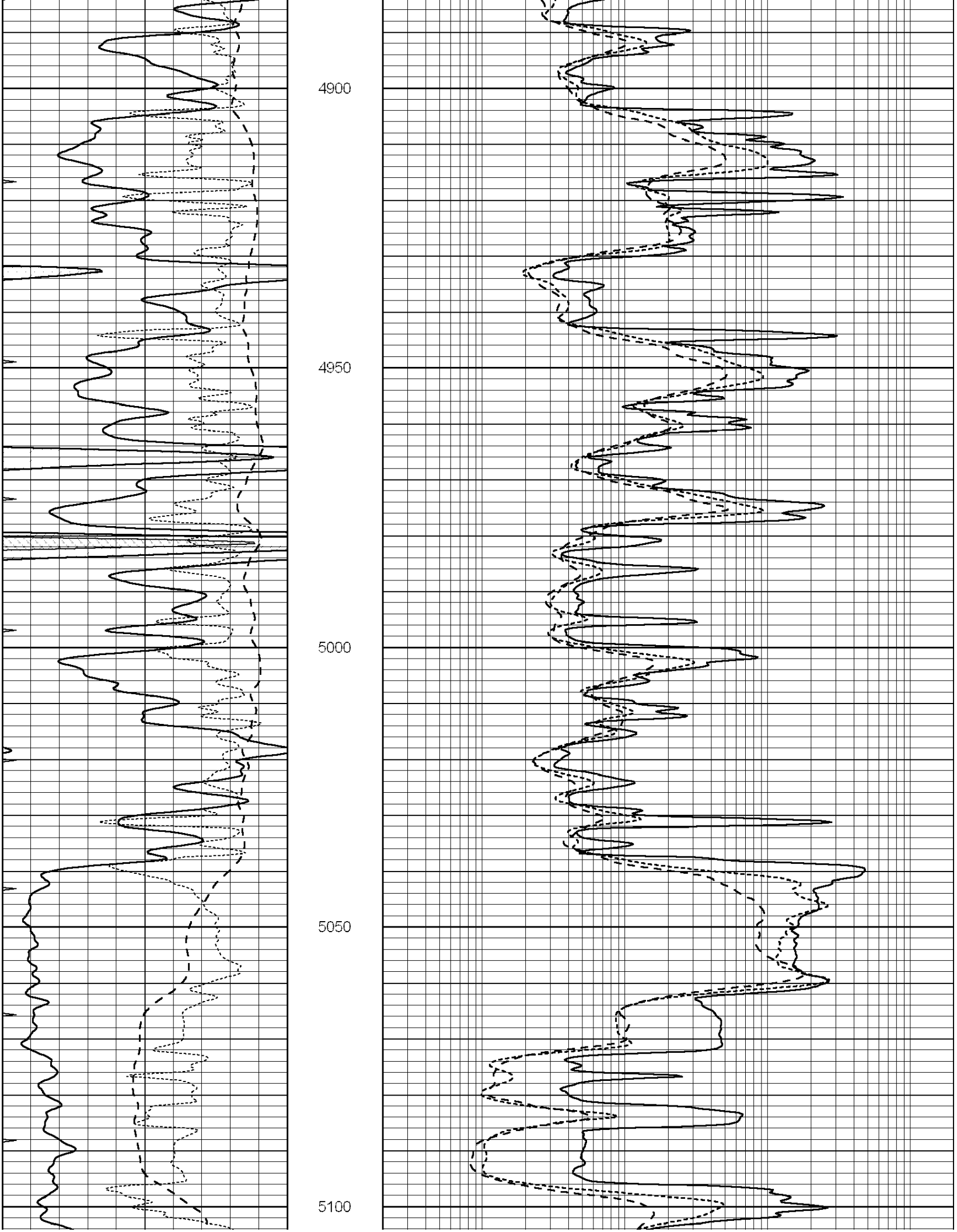
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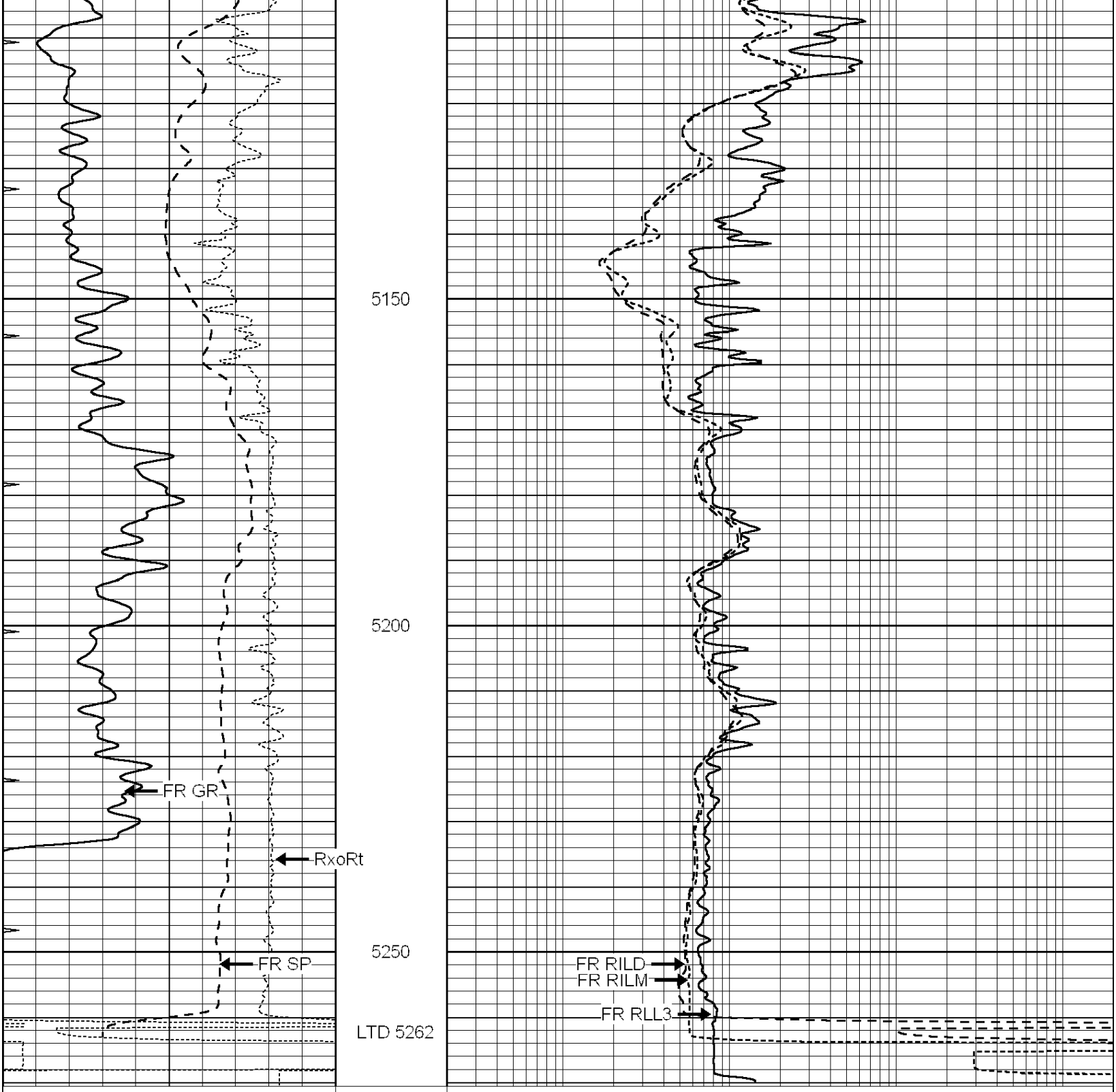


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

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

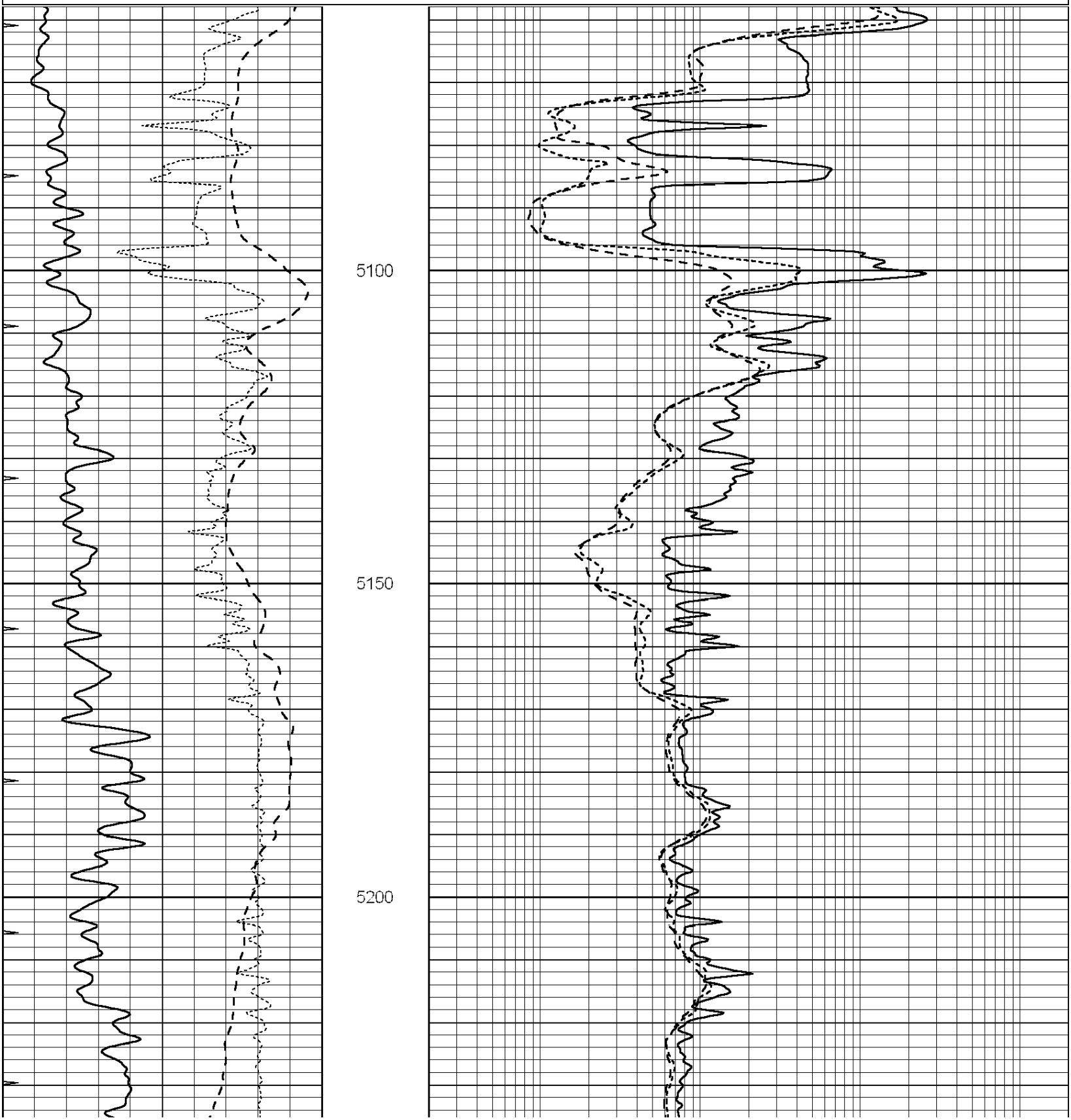
NABORS
COMPLETION & PRODUCTION SERVICES CO.

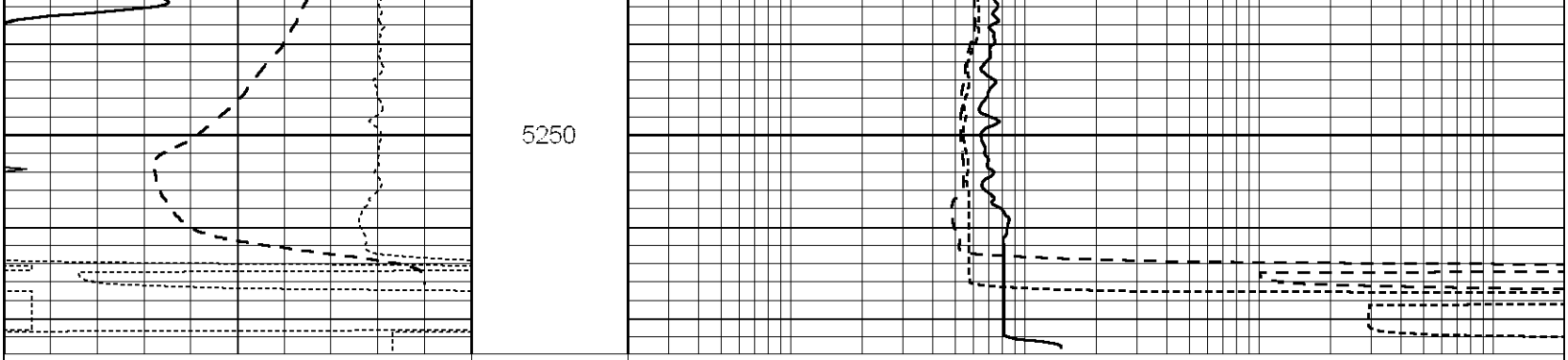
REPEAT SECTION

Database File:	010659pe.db
Dataset Pathname:	pass3.2
Presentation Format:	dil
Dataset Creation:	Fri Jan 25 08:38:49 2013 by Calc Open-Cased 090629
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





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

Calibration Report

Database File: 010659pe.db
Dataset Pathname: pass4.4
Dataset Creation: Fri Jan 25 08:37:37 2013 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Sat Jan 19 20:58:30 2013
Downhole Cal Performed:	Sat Jan 19 19:51:38 2013
After Survey Verification Performed:	Sat Jan 19 19:51:38 2013

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.793	0.790	V	0.000	400.000	mmho/m	670.000	-6.000
Medium	0.992	1.002	V	0.000	464.000	mmho/m	700.000	-55.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.041	0.642	V	0.000	400.000	mmho/m	664.874	-27.011
Medium	0.035	0.802	V	0.000	464.000	mmho/m	604.936	-21.367

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	135384.000	27094.500	mmho/m	135400.000	27082.400	mmho/m	1.000	-19.259
Medium	-47330.100	-9381.740	mmho/m	-47327.100	-9389.280	mmho/m	1.000	-10.154
LL3		7.322	V		1400.000	Ohm-m		
		0.038	V		20.000	Ohm-m		
		-7.273	V		4000.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	135384.000	27094.500	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-47330.100	-9381.740	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1400.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		4000.000	mmho-m		

Litho Density Calibration Report

Serial: 001 Model: PRB
Performed Tue Jul 03 11:37:32 2007

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	2170.6	9915.1	3855.3	11241.6	cps
Window 2	2029.2	8716.5	3483.5	9750.8	cps
Window 3	1665.0	4929.7	2356.8	5332.0	cps
Window 4	493.3	492.1	490.0	486.8	cps
Long Space	0.0	6687.3	1454.3	7721.6	cps
Short Space	1.9	2149.3	1403.9	2354.5	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	

Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.556
Spine Angle	: 74.4	Spine Slope	: 3.583	Spine Intercept	: -18.7

Caliper

	Readings	Reference
Low Ref	3.5	8.1
High Ref	5.4	14.0
	Gain: 3.1	Offset: -2.5

Compensated Neutron Calibration Report

Serial Number: NEU_4I
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: Thu Jan 24 12:43:45 2013

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 2.3000 GAPI/cps