SUPERIOR WELL SERVICES

SUPERIOR
Hays, Kansas

DUAL INDUCTION LOG

Company VINCENT OIL CORPORATION
Well LIX #1-4
Field WILDCAT
County FORD State KANSAS

Location: API # : 15-057-20638-0000

820' FSL & 2240' FEL

SEC 4 TWP 26S RGE 24W

Other Services
CDL/CNL/PE
MEL/SONIC

Elevation
K.B. 2546
D.F. 2544
G.L. 2536

Permanent Datum GROUND LEVEL Elevation 2536
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING

Date	7/15/09		
Run Number	ONE		
Depth Driller	5250		
Depth Logger	5249		
Bottom Logged Interval	5247		
Top Log Interval	00		
Casing Driller	8 5/8"@268'		
Casing Logger	268		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4,150 PPM	
Density / Viscosity	9.3/56		
pH / Fluid Loss	9.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.800@99F		
Rmf @ Meas. Temp	.600@99F		
Rmc @ Meas. Temp	.960@99F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.624@127F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	5:30 P.M.		
Maximum Recorded Temperature	127F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JIM HALL		

Company VINCENT OIL CORPORATION
Well LIX #1-4
Field WILDCAT
County FORD
State KANSAS

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Comments

THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395

DIRECTIONS

HWY 50 & 283 JUNCTION (DODGE CITY, KS.) E. OF KOCH NITROGEN PLANT., 1N. ON HWY 283 TO HORSESHOE RD., 2W., N. INTO

MAIN SECTION

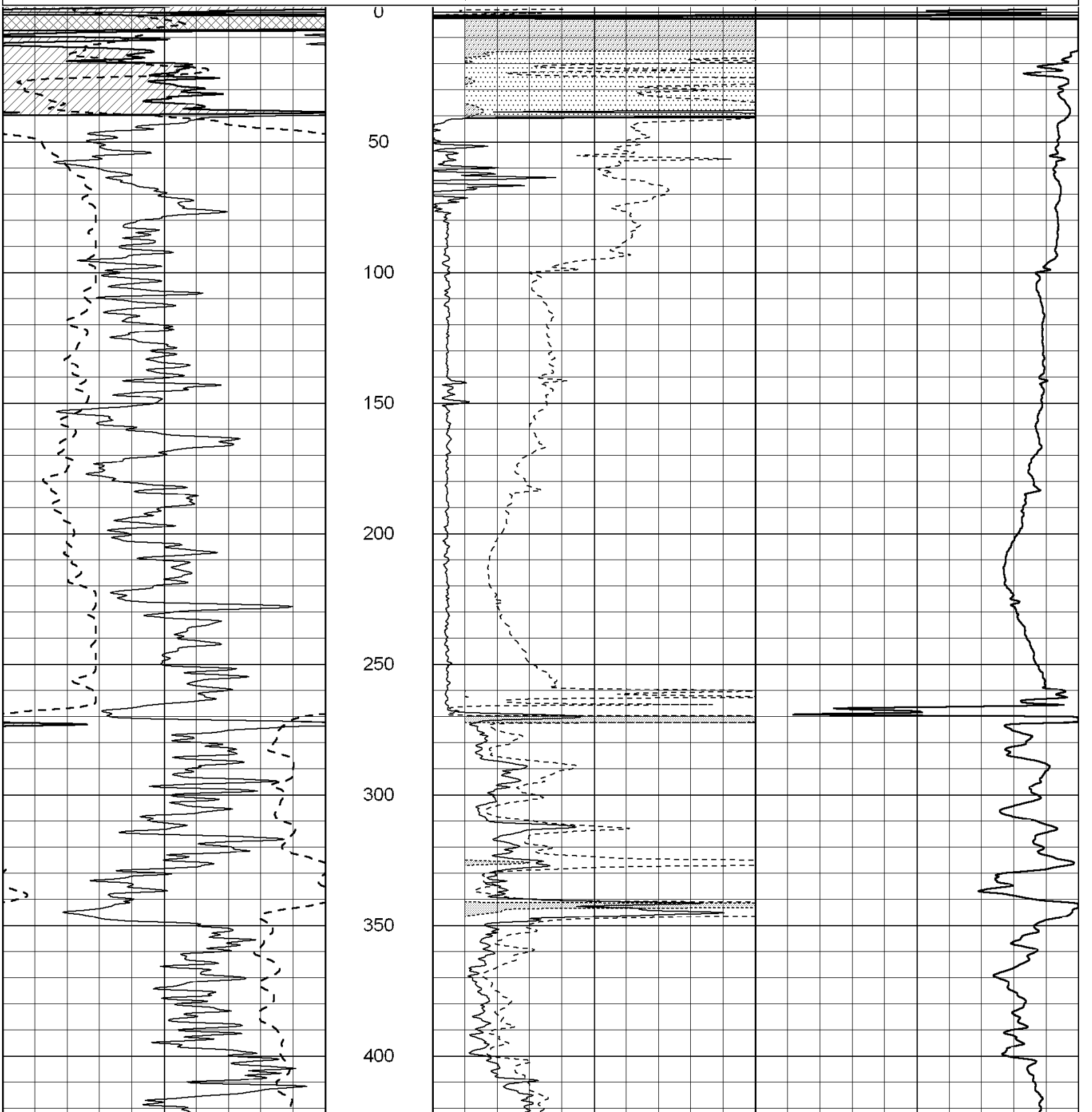
SUPERIOR
Hays, Kansas

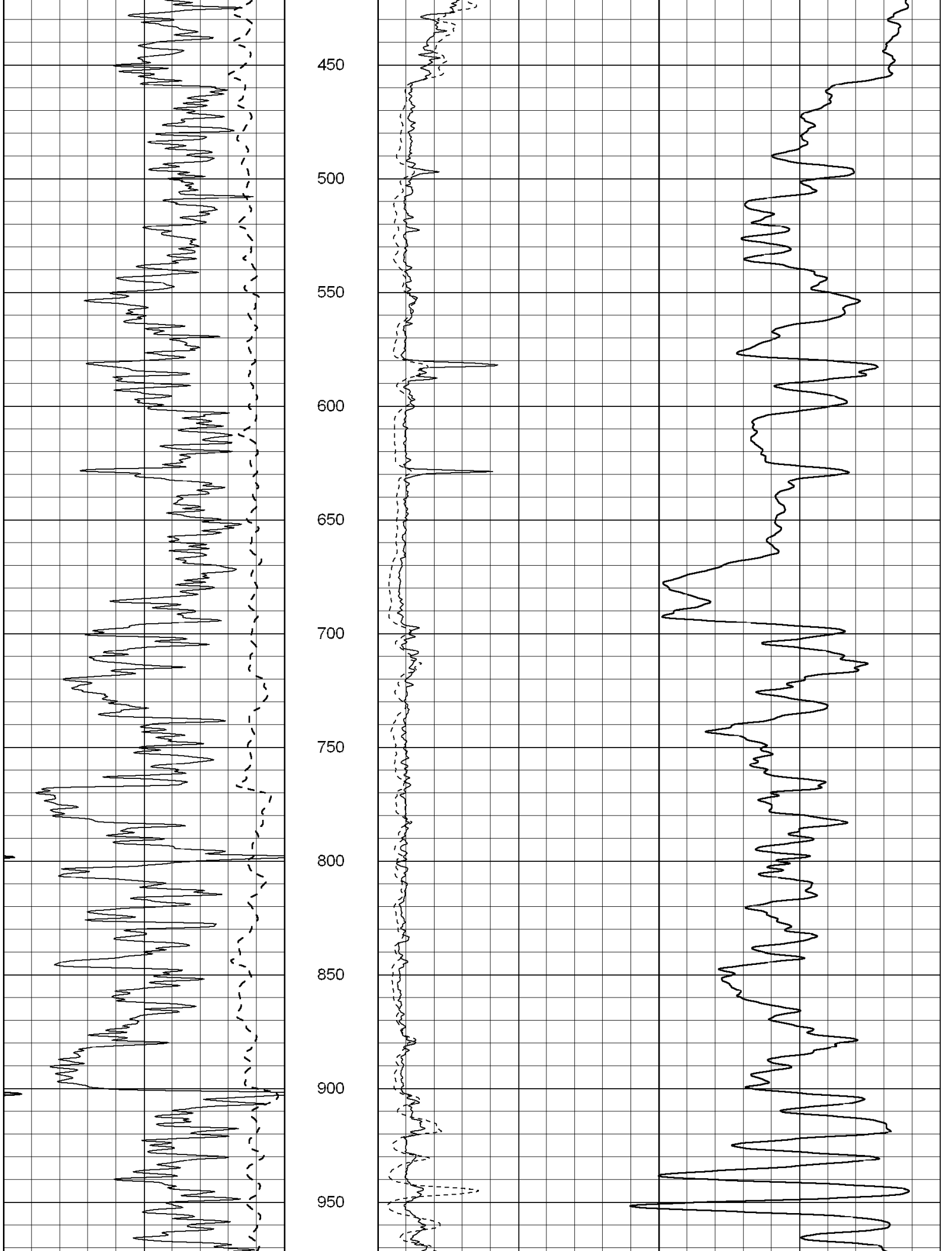
SUPERIOR WELL SERVICES

Database File: 003541pe.db
Dataset Pathname: pass3.4
Presentation Format: dil2
Dataset Creation: Wed Jul 15 19:42:40 2009 by Calc Open-Cased 060407
Charted by: Depth in Feet scaled 1:600

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

0	*RLL3 (Ohm-m)*	50
0	*RILD (Ohm-m)*	50
1000	*CILD (mmho-m)*	0
50	*RILD X10 (Ohm-m)*	500
50	*RLL3 X10 (Ohm-m)*	500

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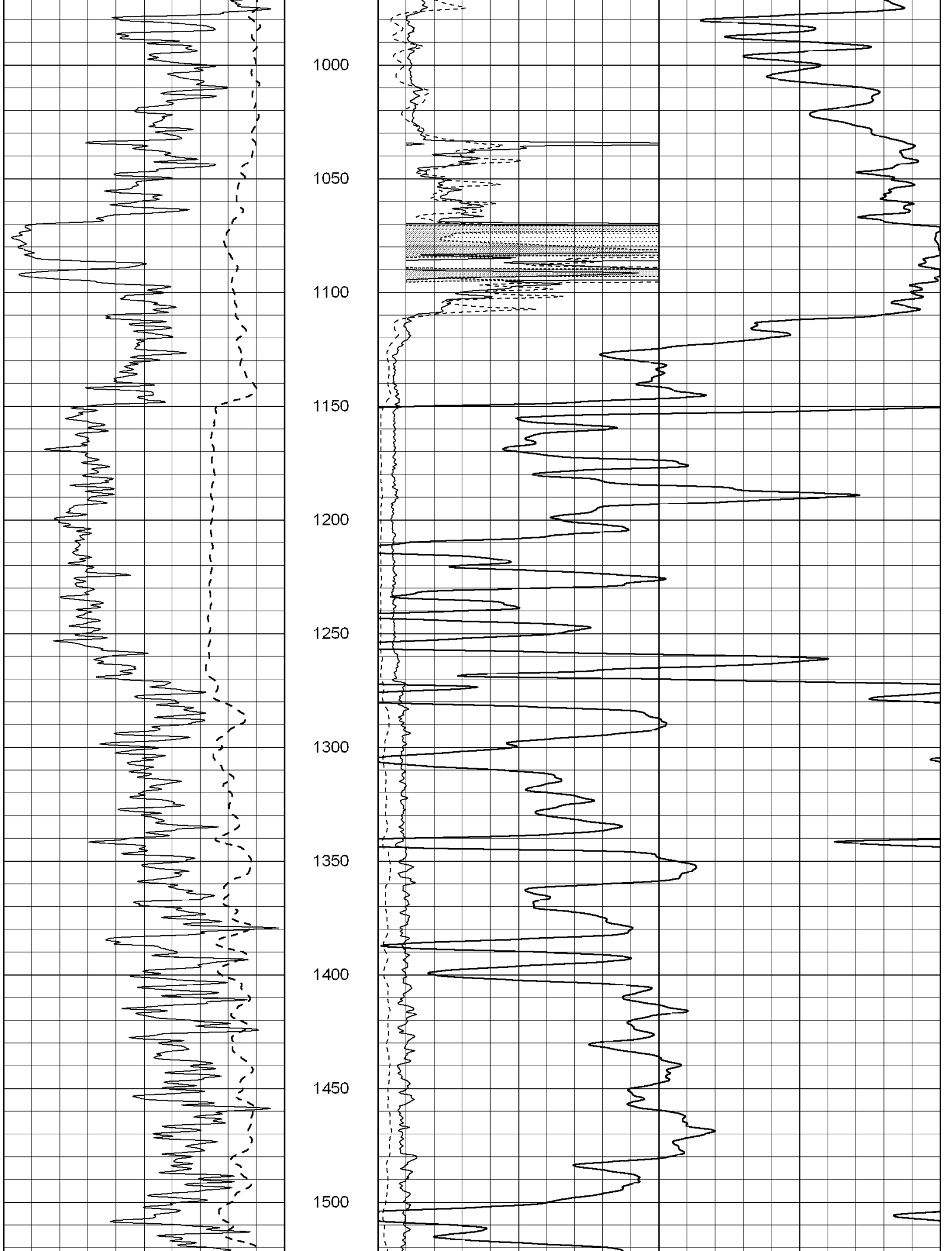
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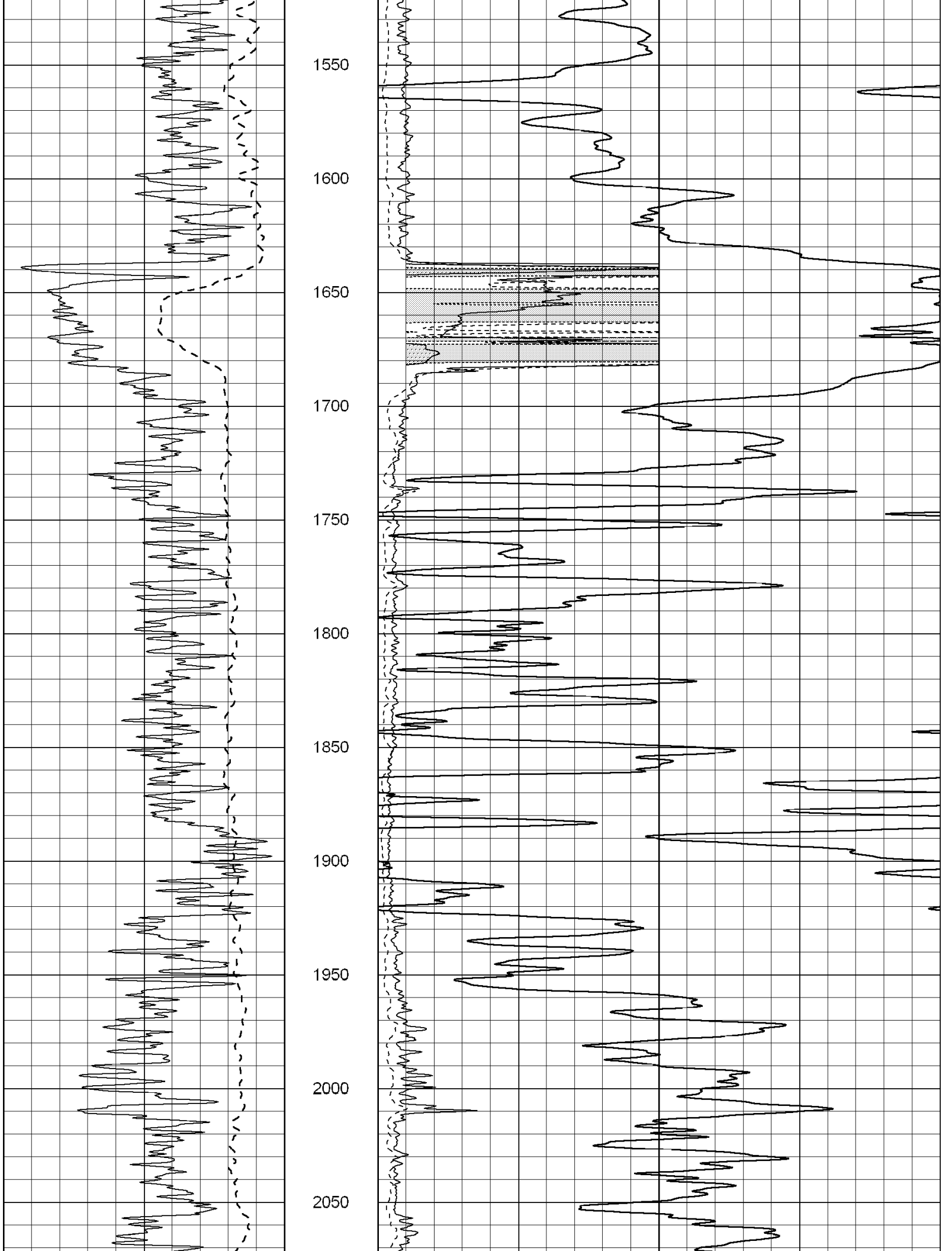
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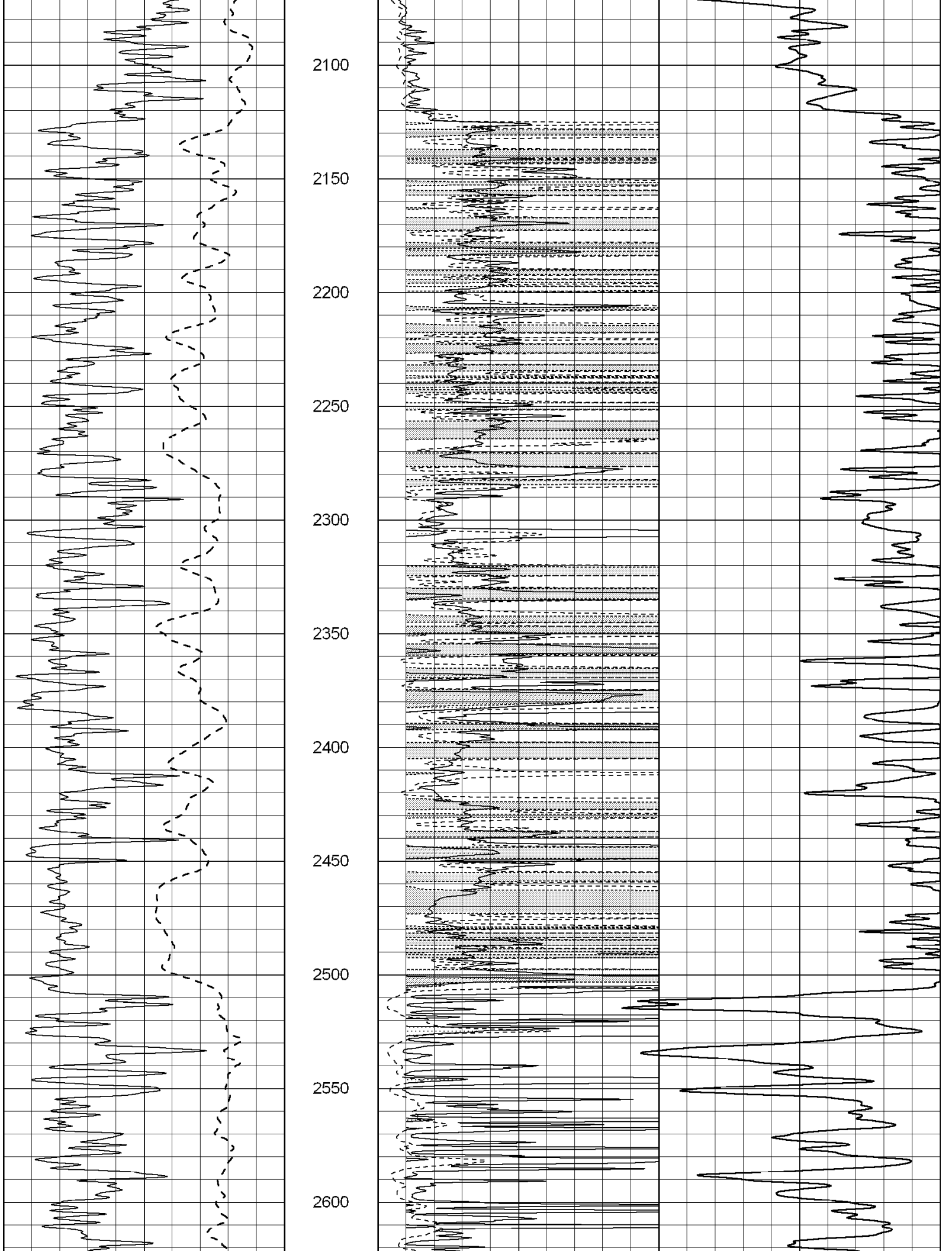
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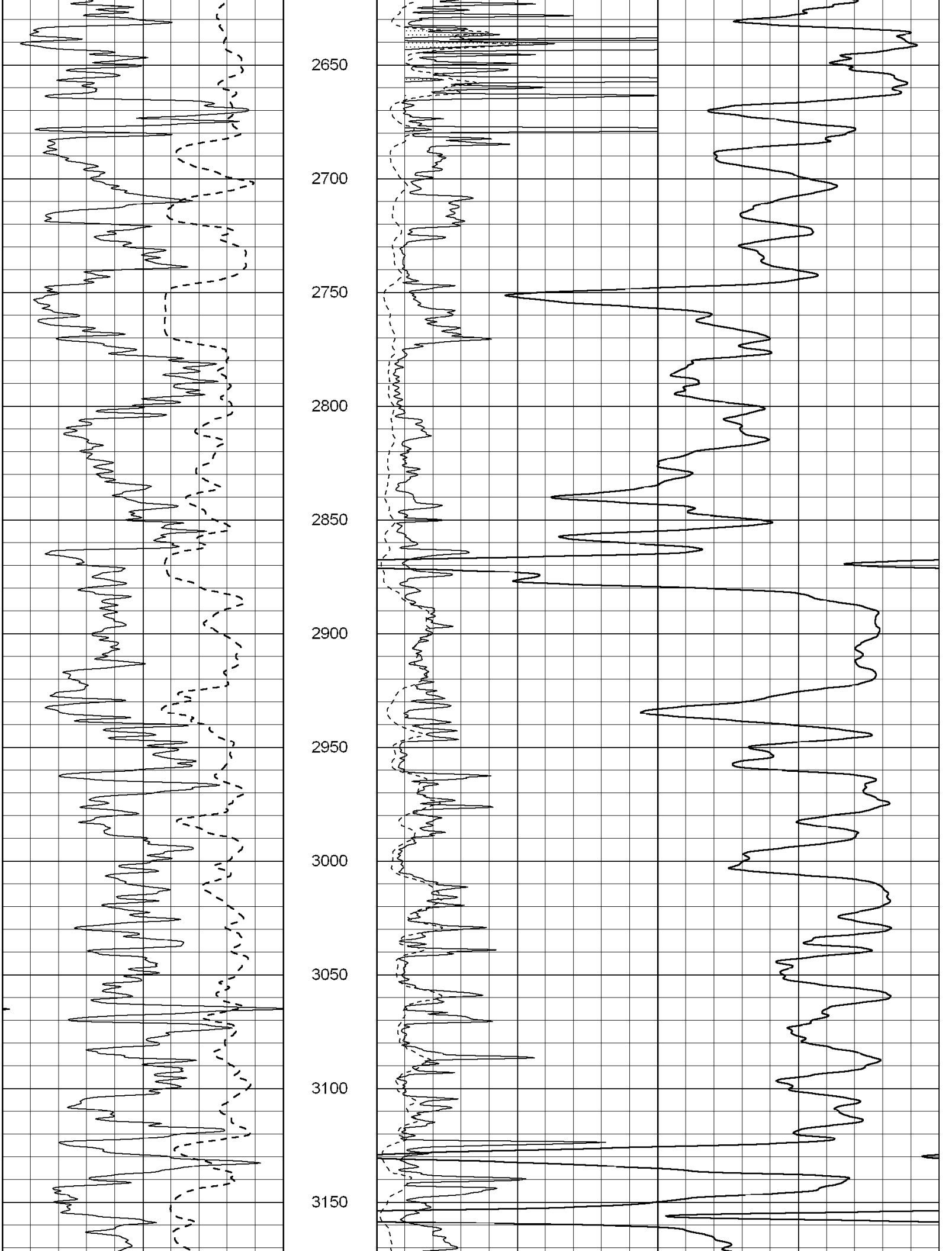
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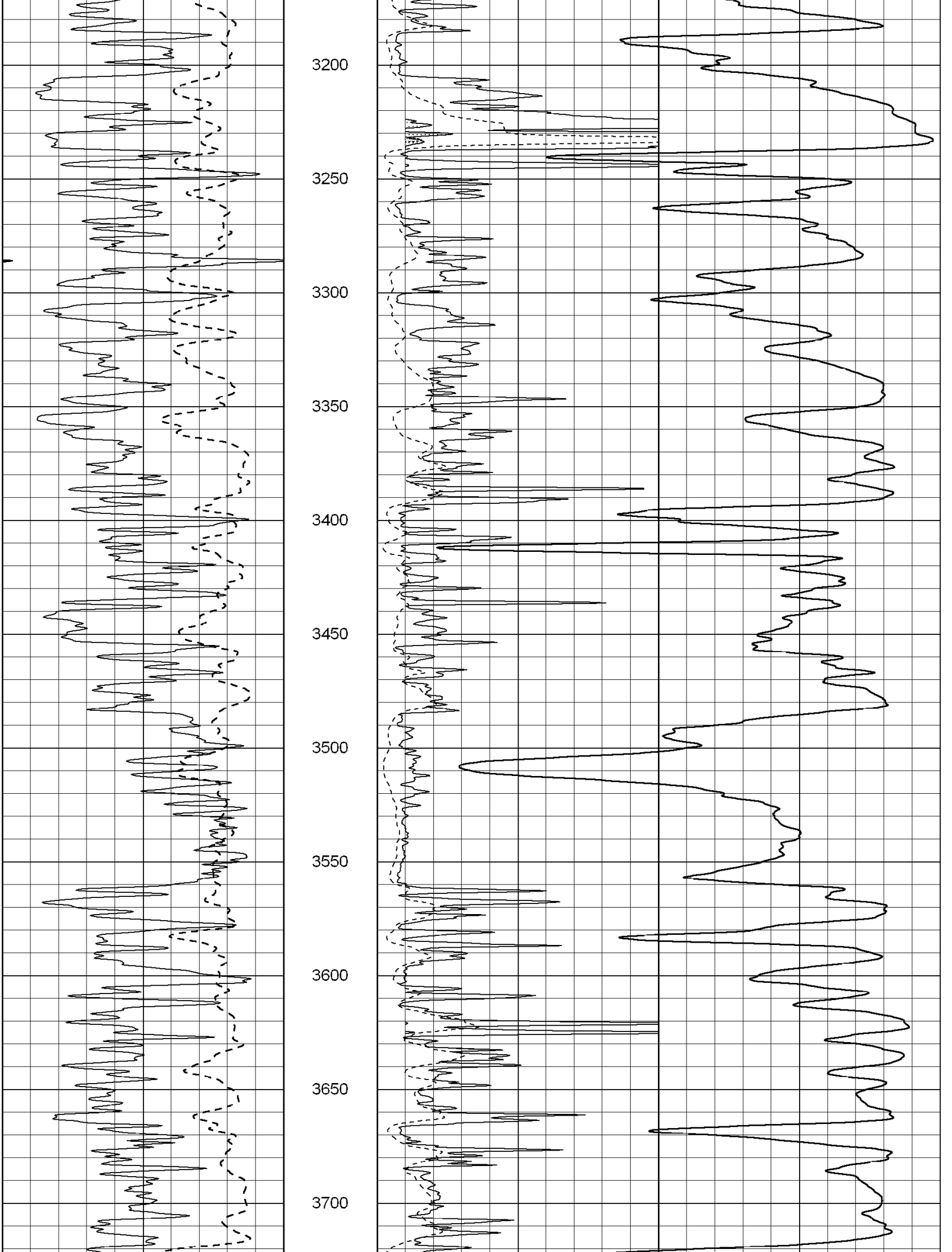
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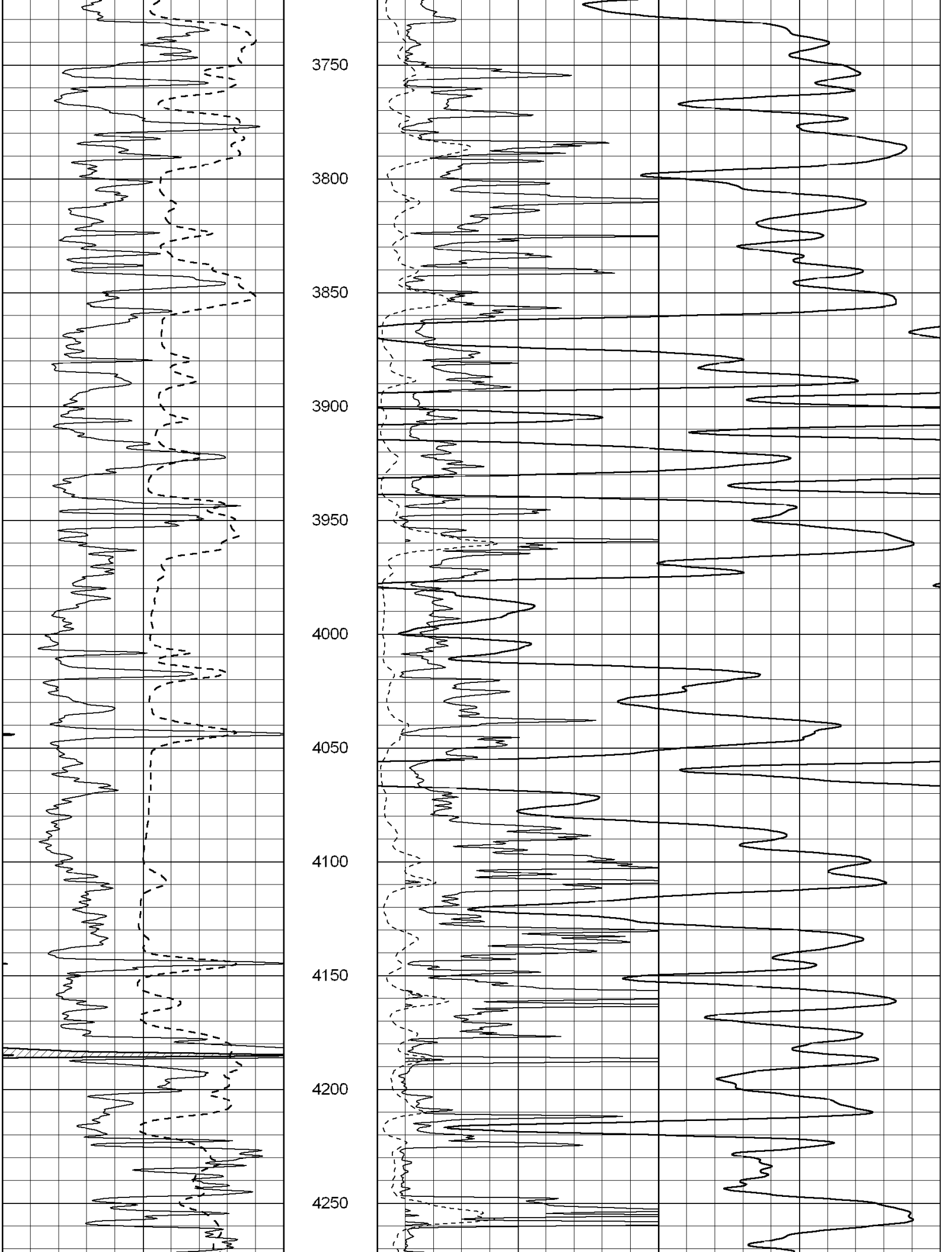
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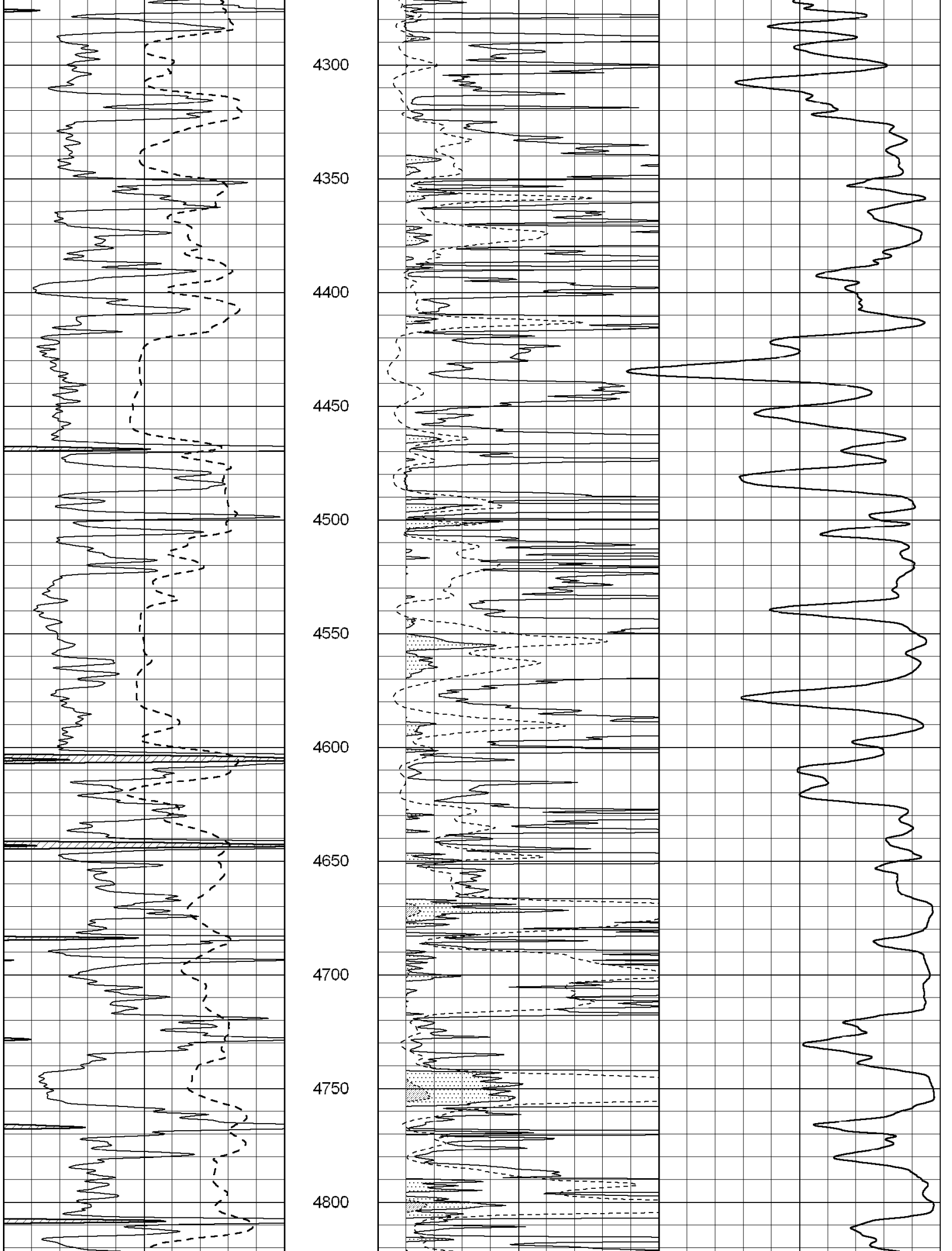
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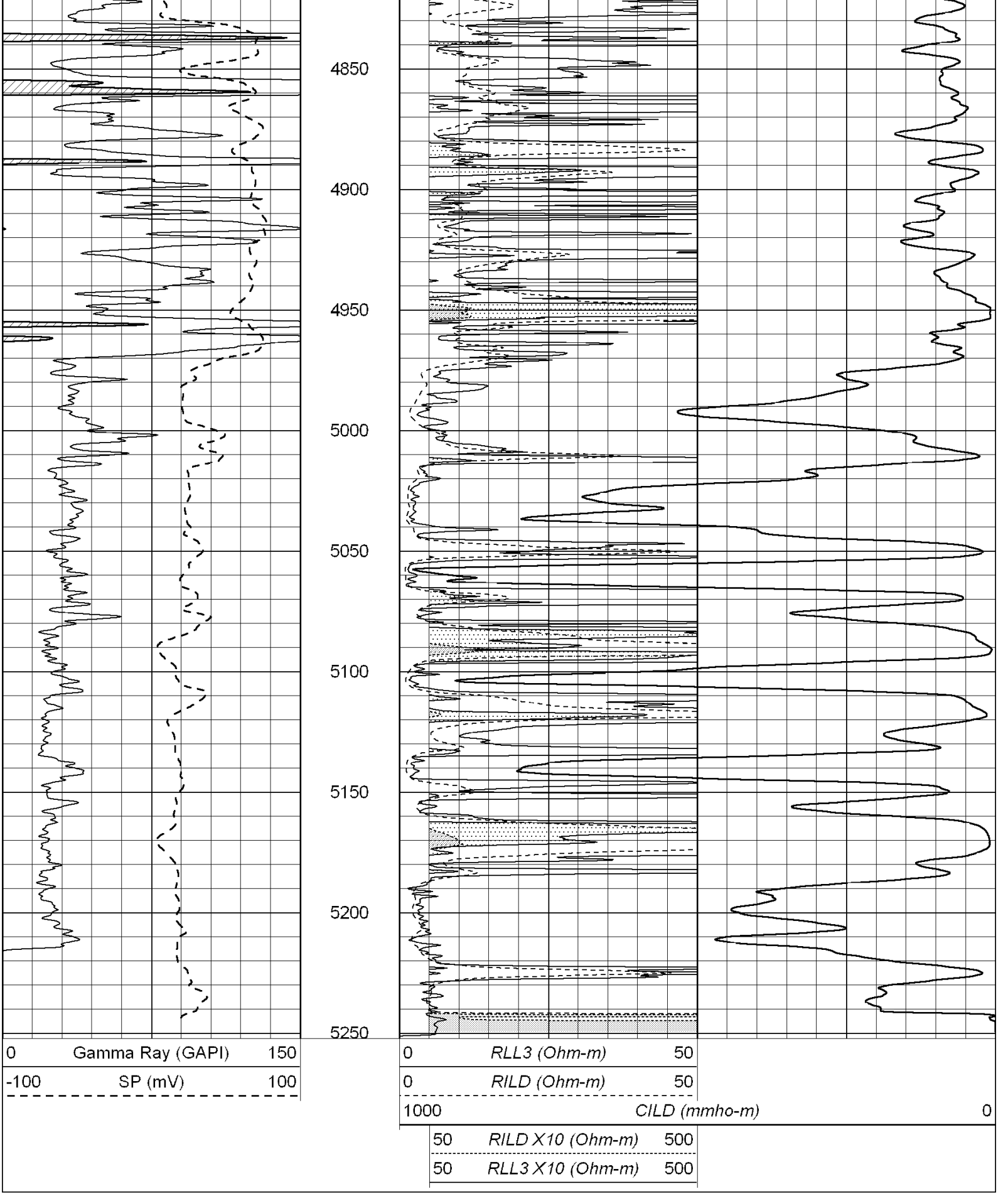


SUPERIOR WELL SERVICES

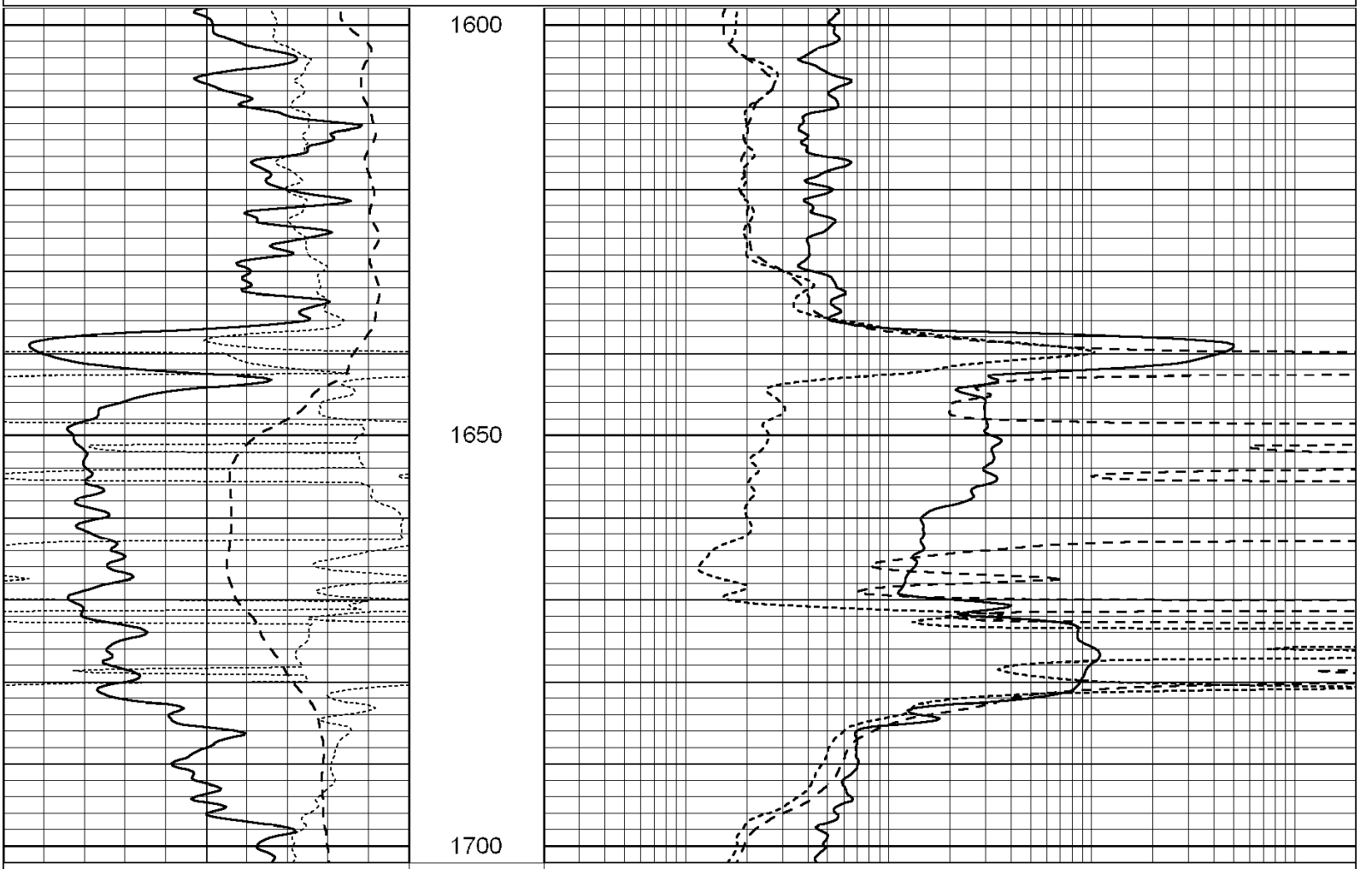
SUPERIOR
Hays, Kansas

ANHYDRITE

Database File: 003541pe.db
Dataset Pathname: pass3.5
Presentation Format: dil
Dataset Creation: Wed Jul 15 19:43:27 2009 by Calc Open-Cased 060407
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	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



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

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

SUPERIOR WELL SERVICES
SUPERIOR
Hays, Kansas

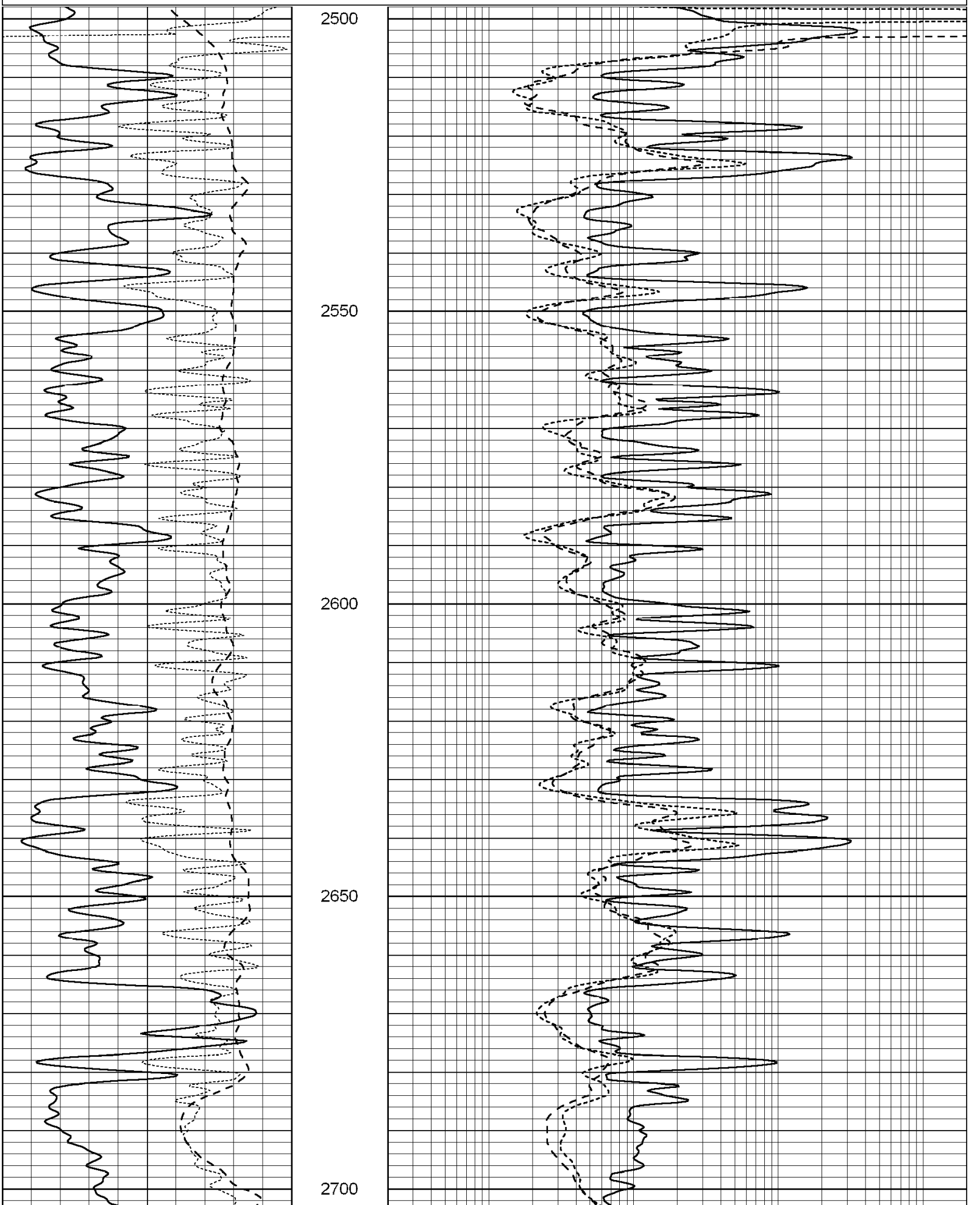
MAIN SECTION

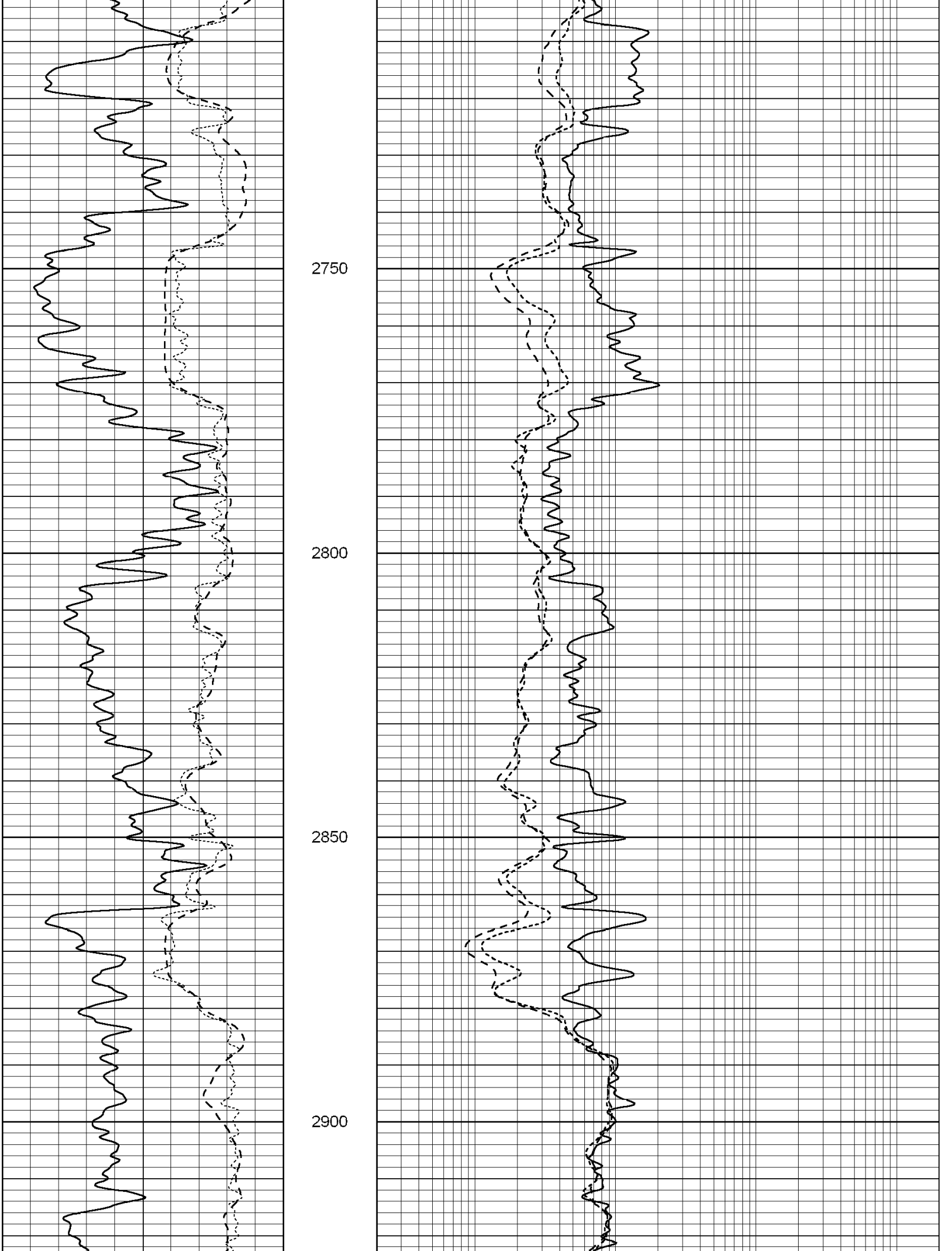
Database File: 003541pe.db
Dataset Pathname: pass3.4
Presentation Format: dil
Dataset Creation: Wed Jul 15 19:42:40 2009 by Calc Open-Cased 060407
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150

0.2	*SHALLOW GUARD (Ohm-m)*	2000

-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000

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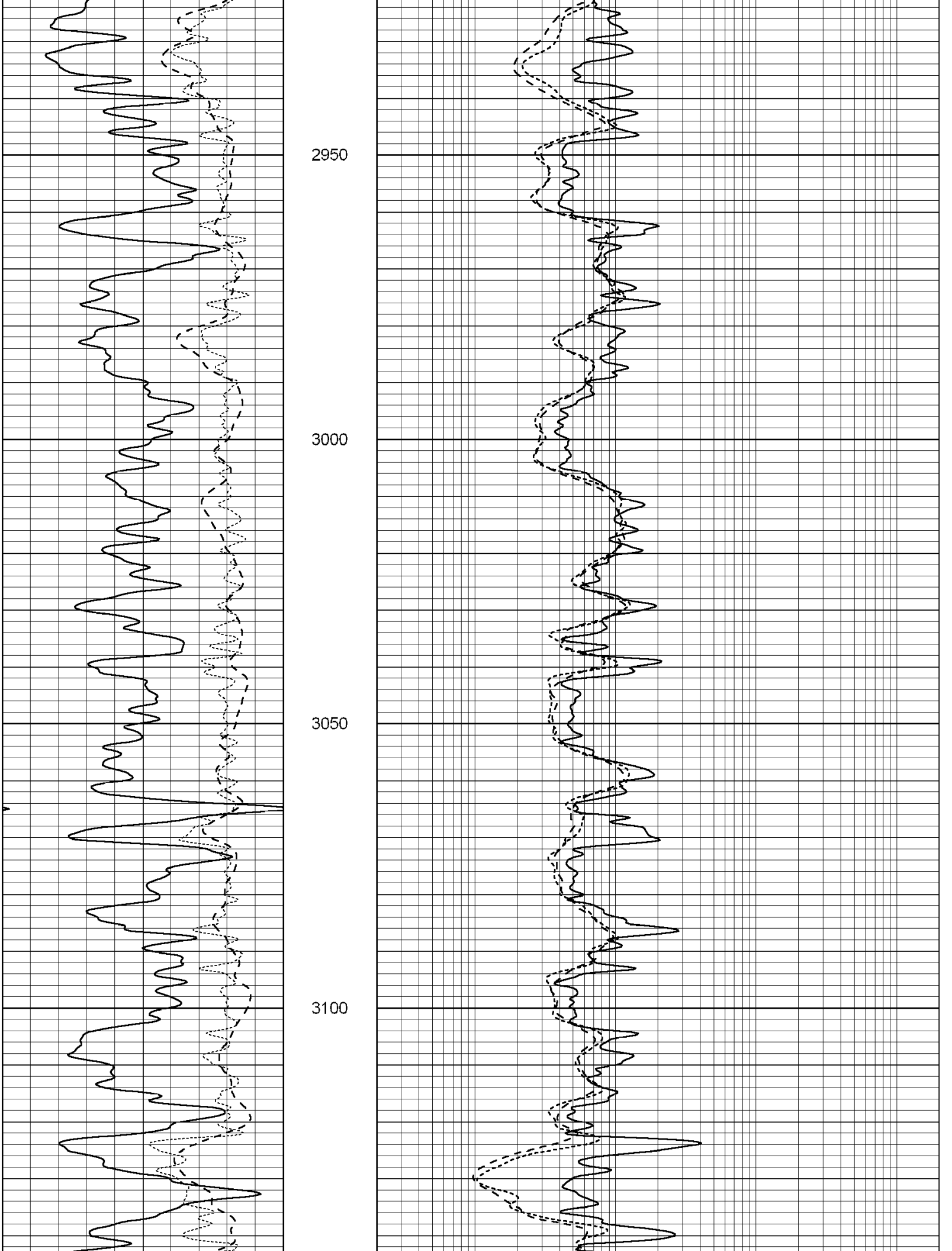
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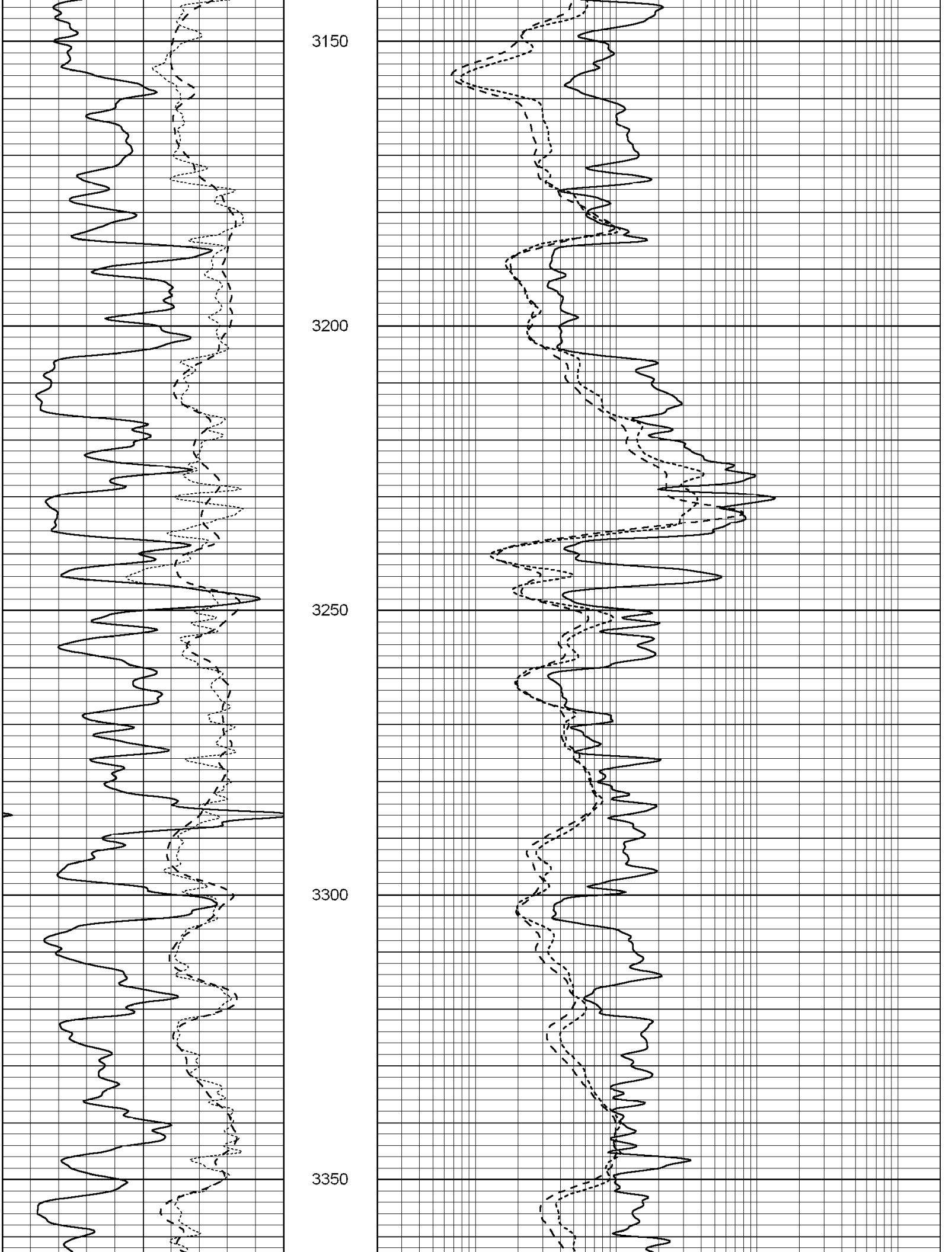
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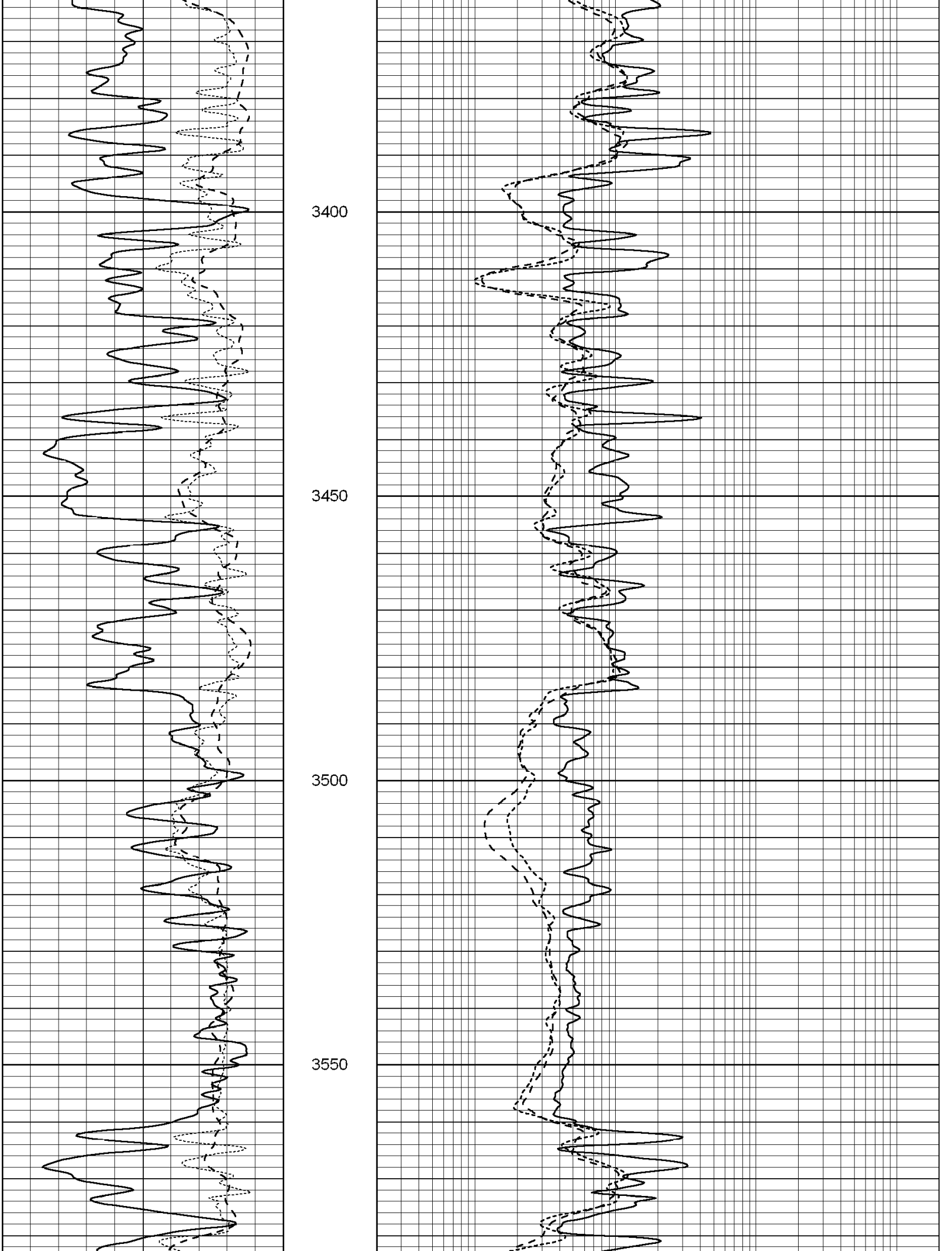
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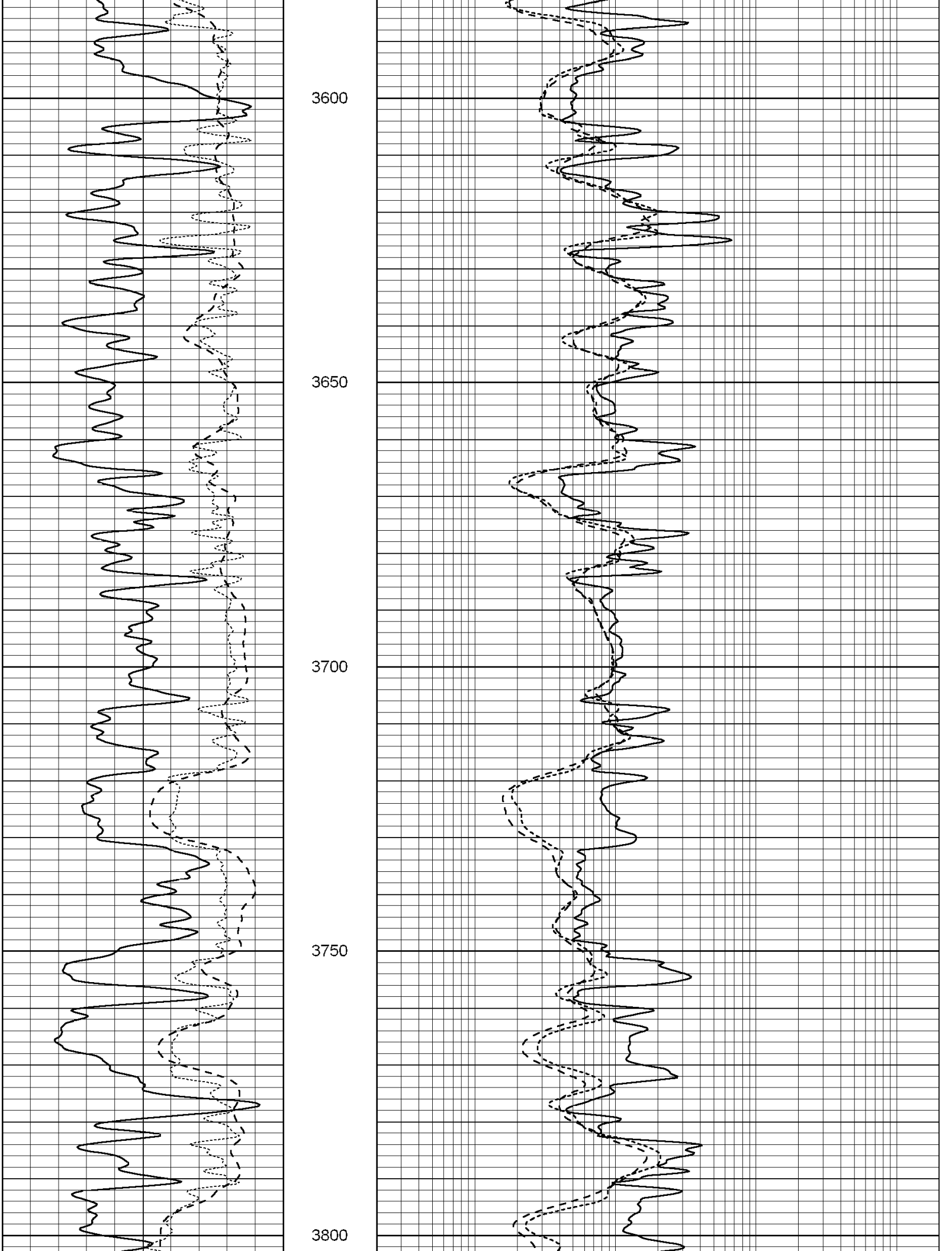
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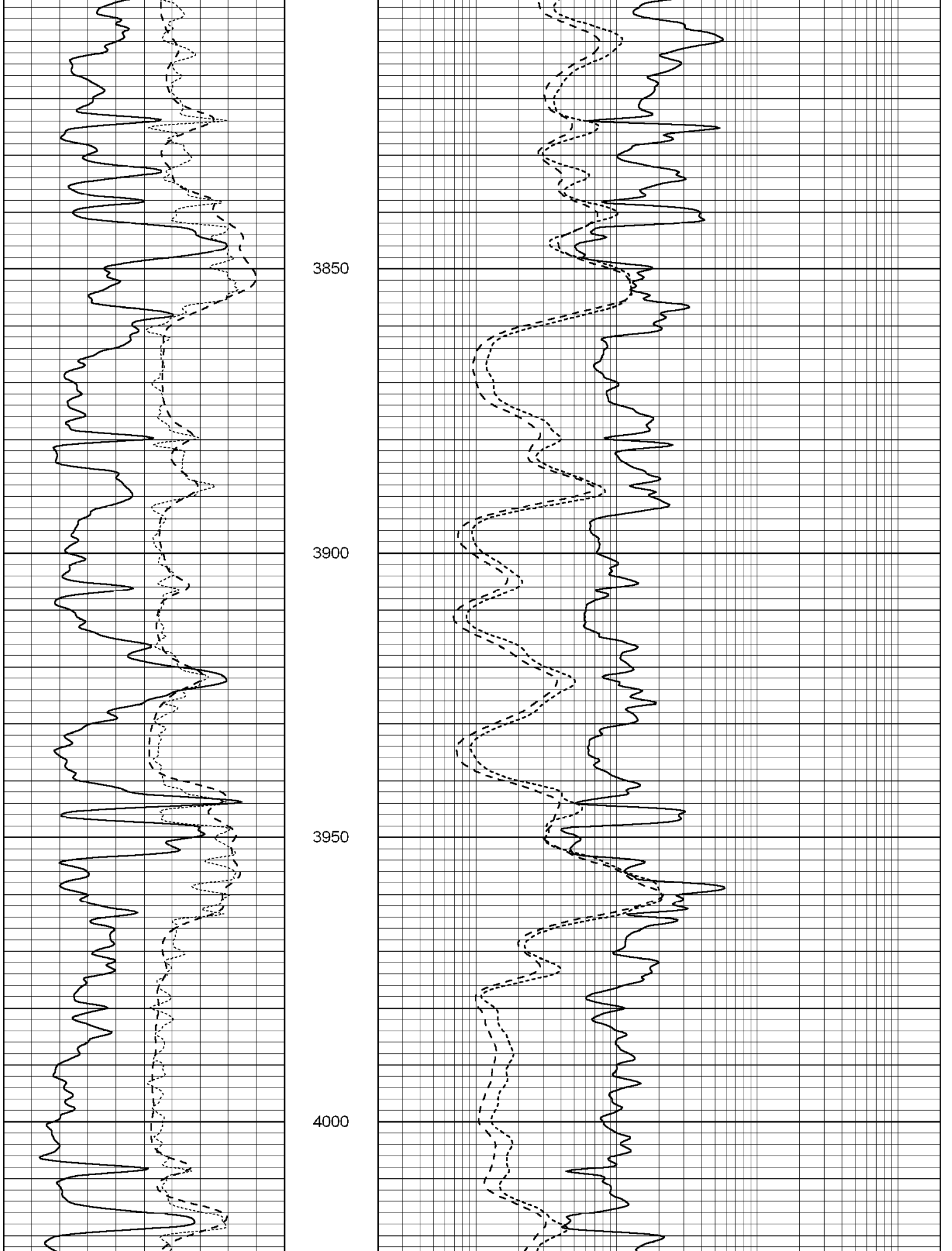
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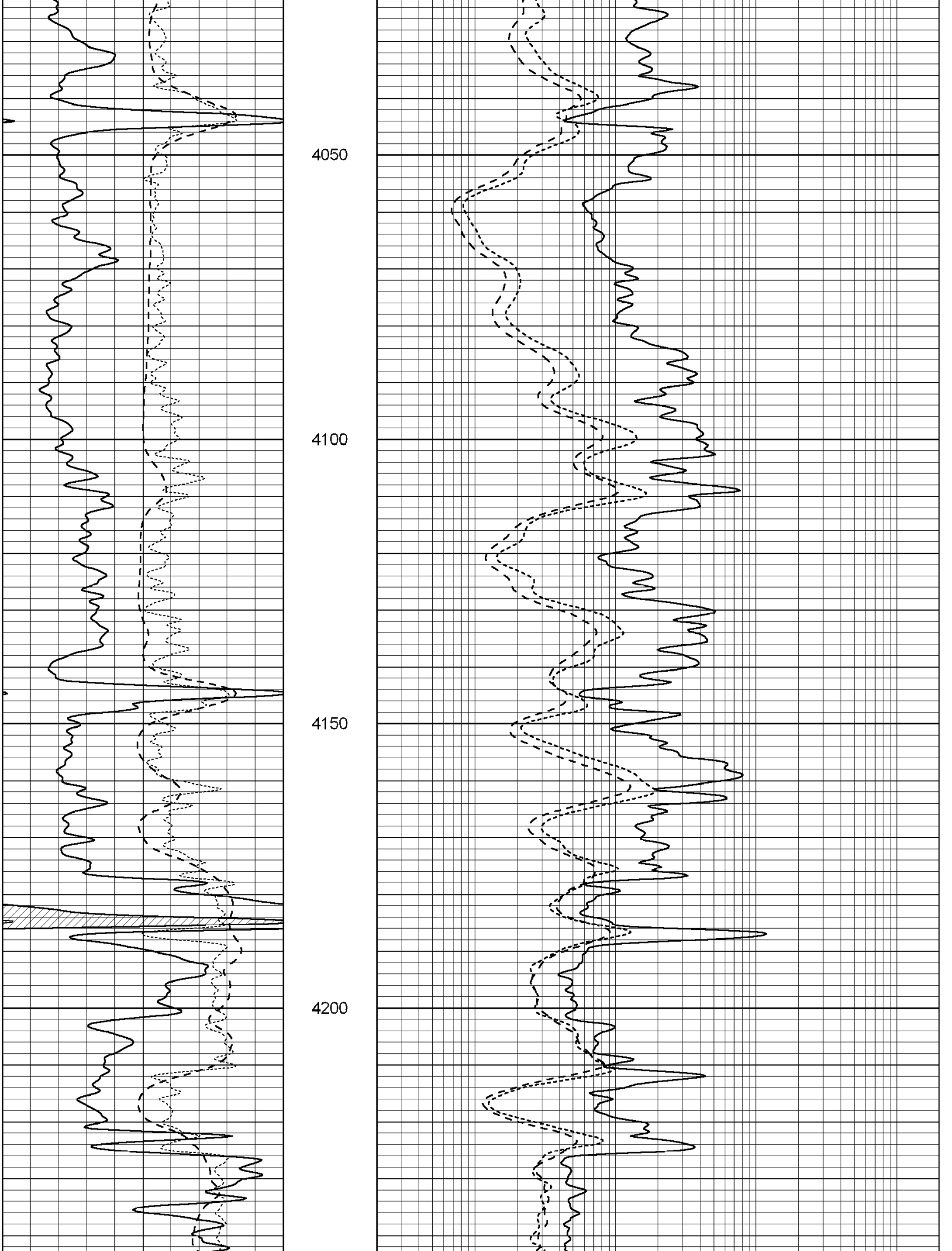
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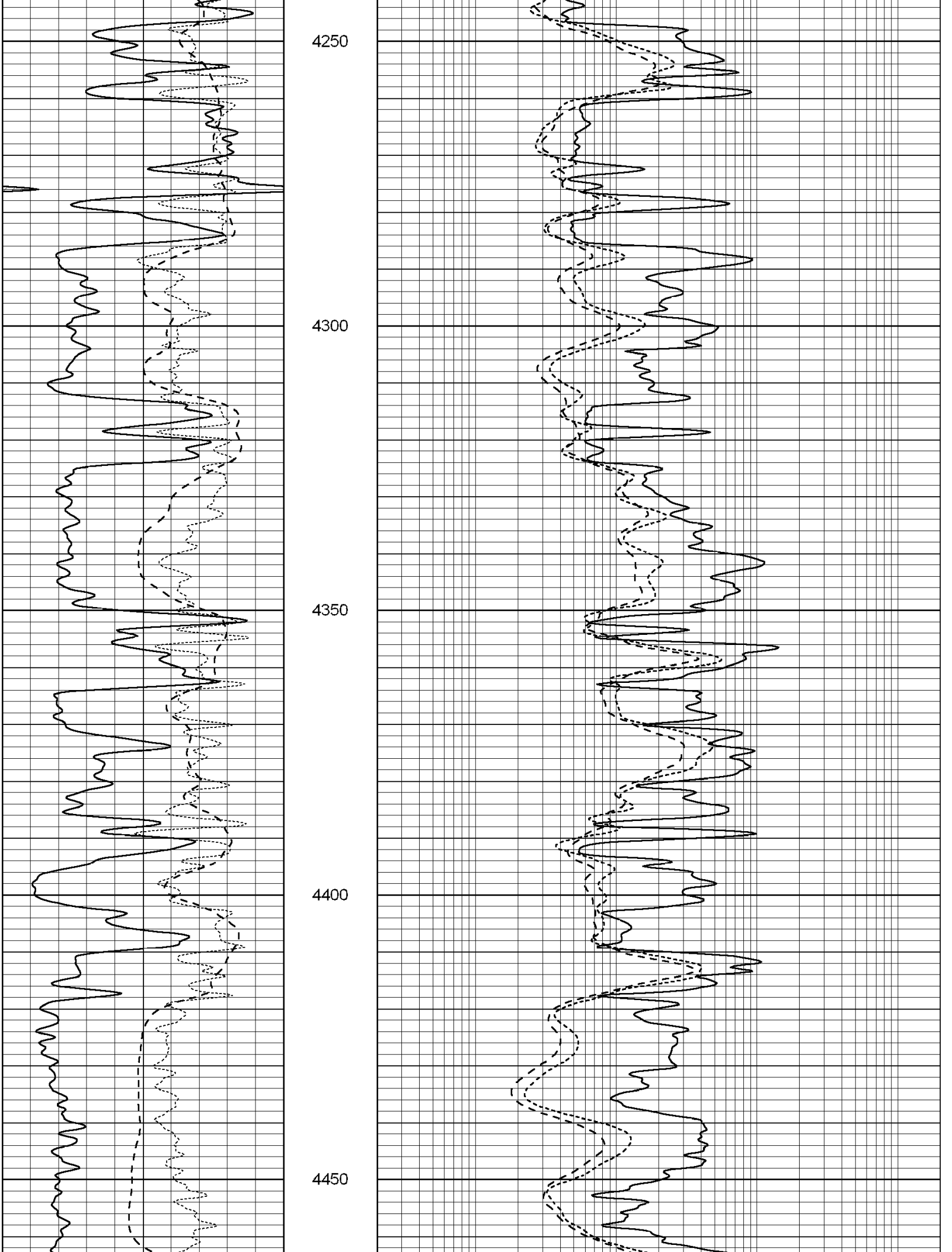
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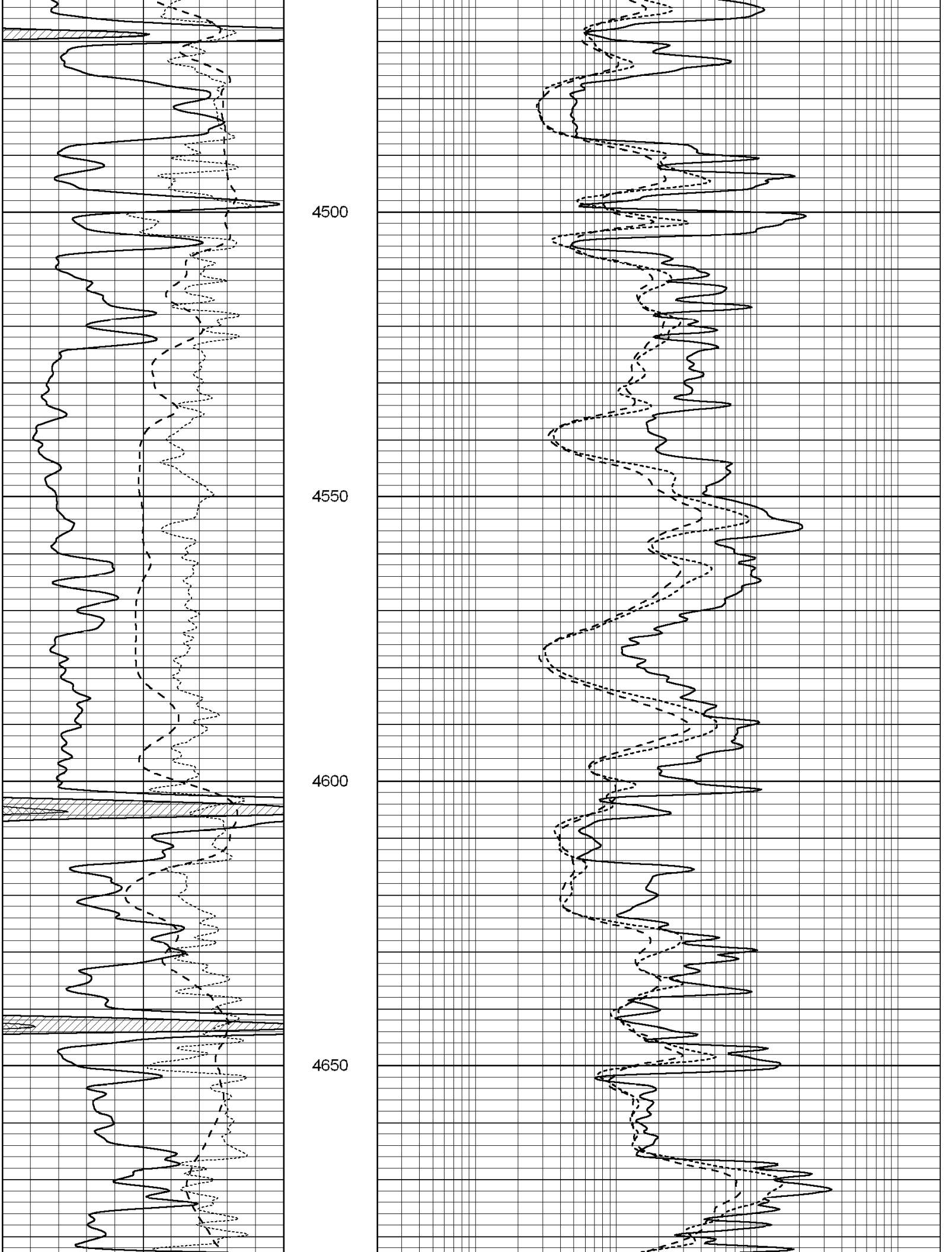
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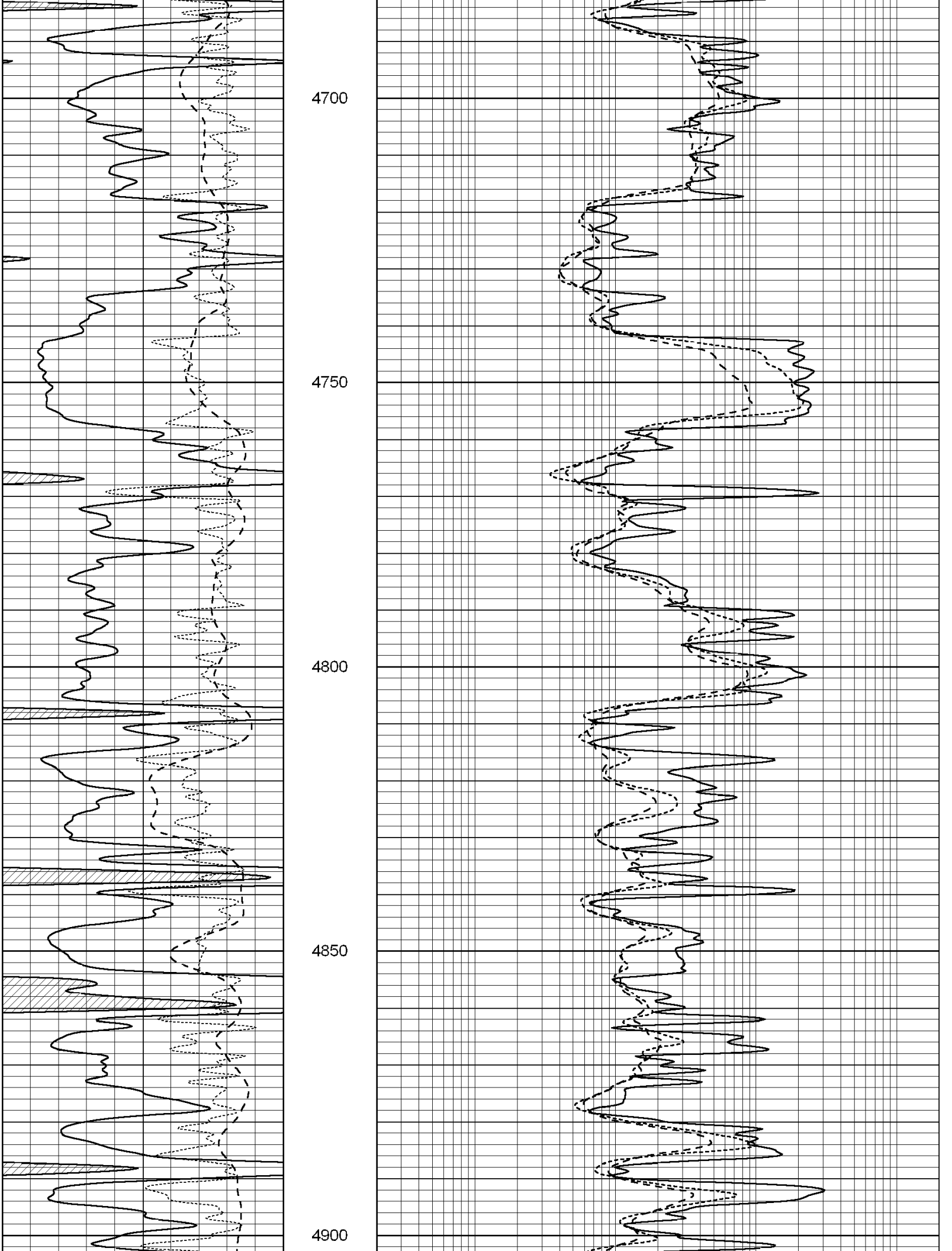
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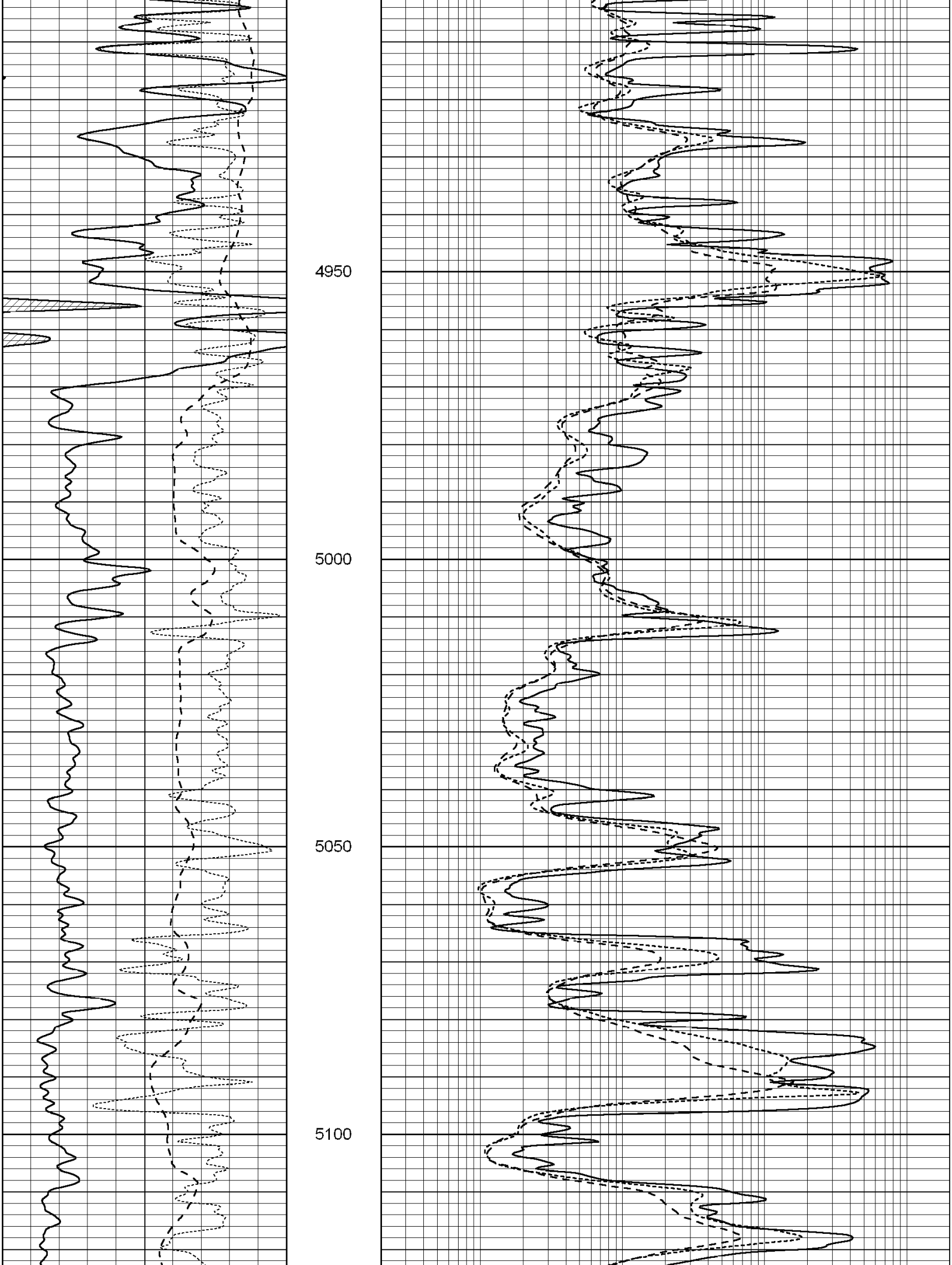
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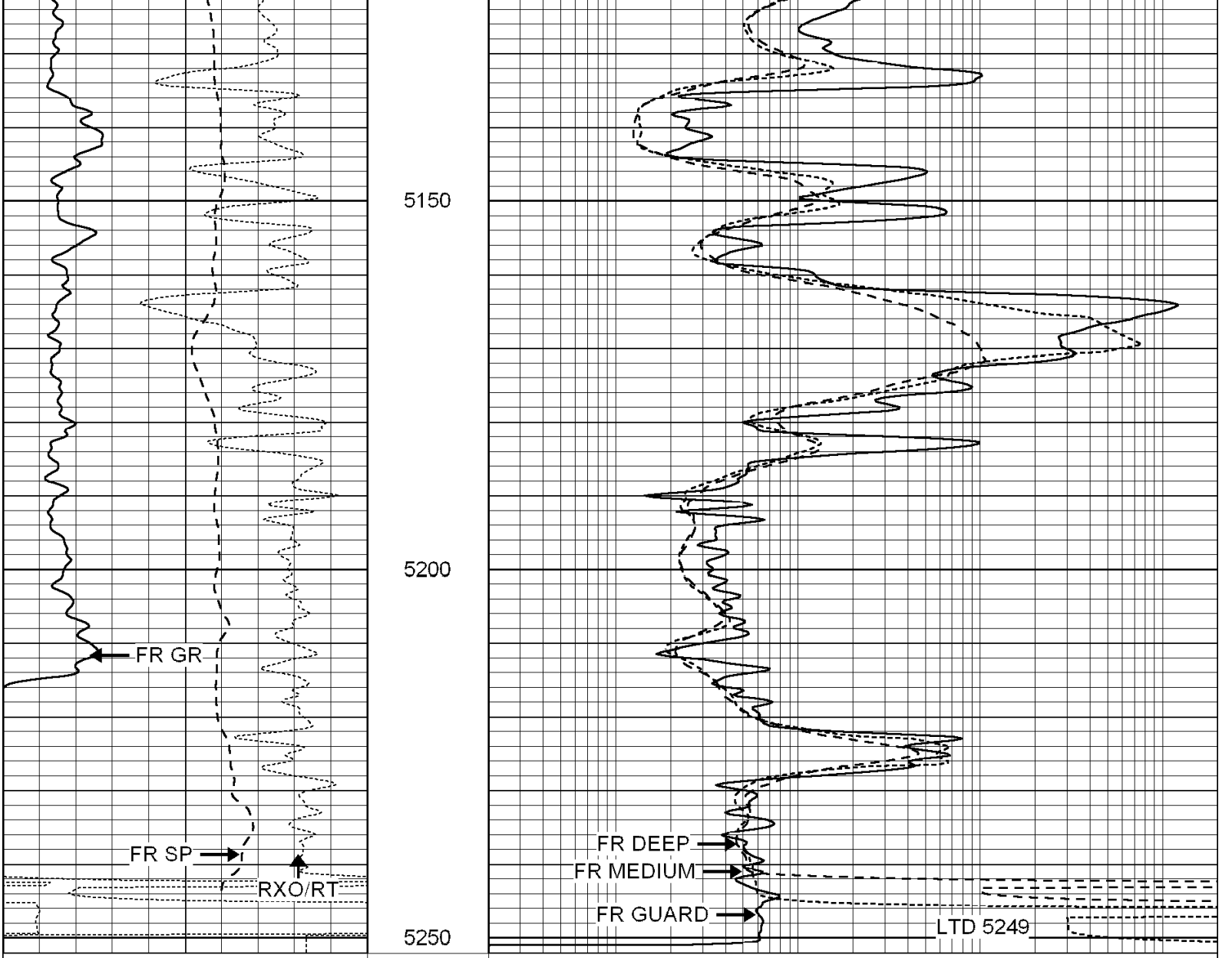


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

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

SUPERIOR WELL SERVICES

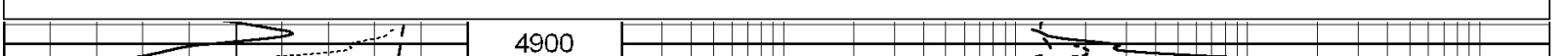
SUPERIOR
Hays,
Kansas

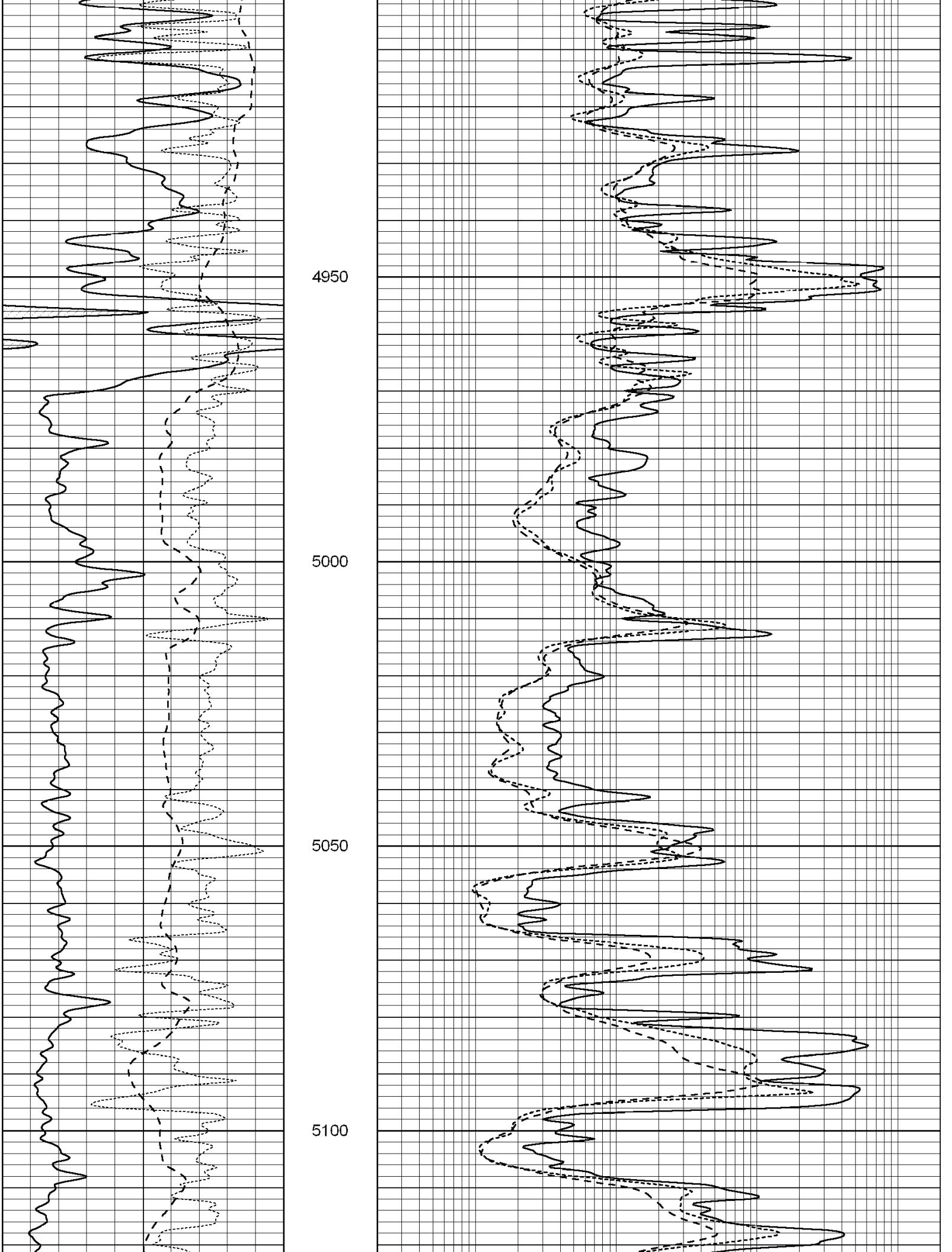
REPEAT SECTION

Database File:	003541pe.db
Dataset Pathname:	pass2.9
Presentation Format:	dil
Dataset Creation:	Wed Jul 15 18:32:20 2009 by Calc Open-Cased 060407
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	*DEEP INDUCTION (Ohm-m)*	2000
0.2	*MEDIUM INDUCTION (Ohm-m)*	2000

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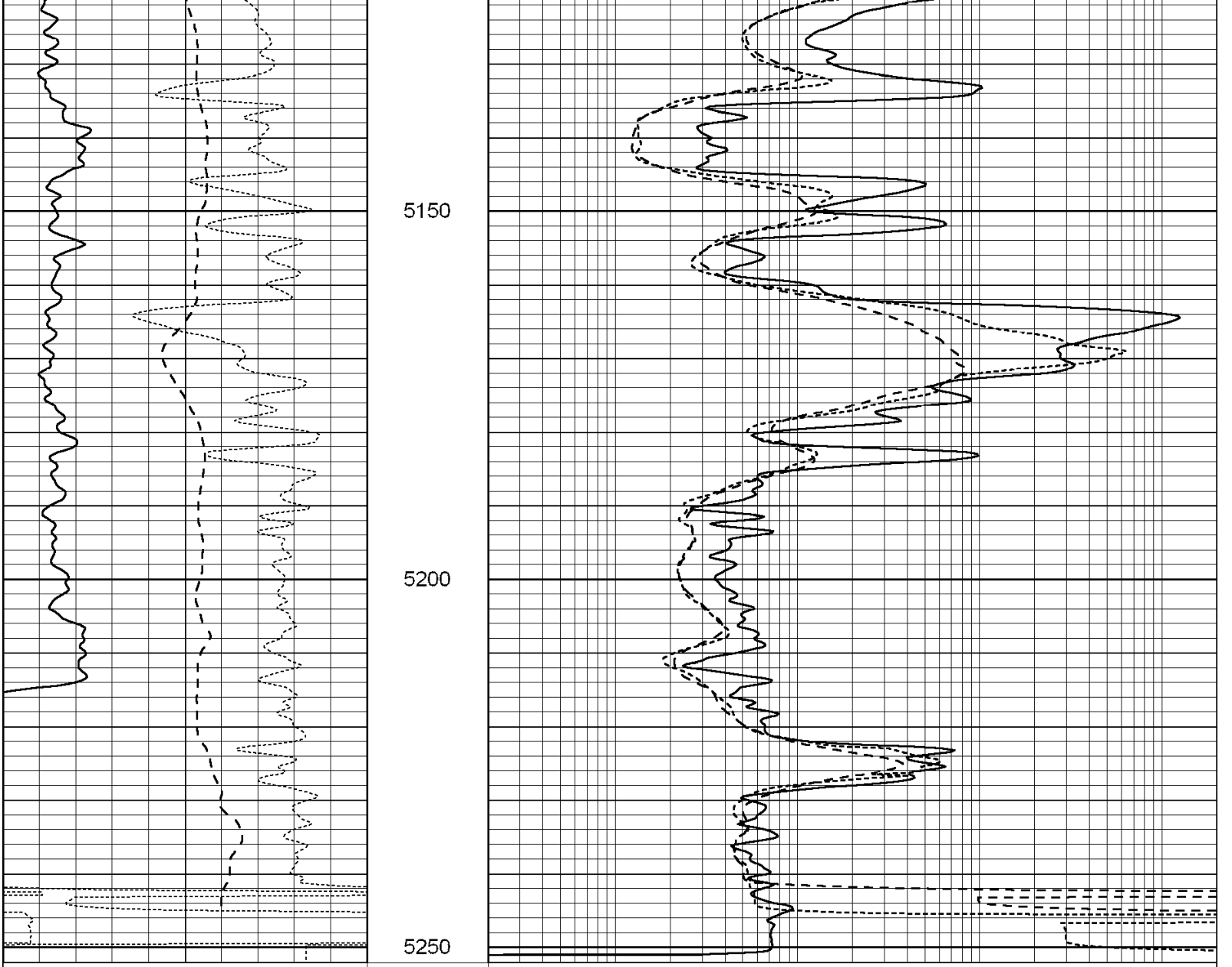

Calibration Report

Database File: 003541pe.db
Dataset Pathname: pass3.4
Dataset Creation: Wed Jul 15 19:42:40 2009 by Calc Open-Cased 060407

Dual Induction Calibration Report

Serial-Model: DIL4-GEAR
Performed: Wed Jul 15 18:34:36 2009

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.008	0.666	V	0.000	400.000	mmho-m	570.000	-14.000
Medium	-0.003	0.769	V	0.000	462.500	mmho-m	560.000	-12.000
Internal:	Zero	Cal		Zero	Cal		m	b

Deep	0.013	0.651	V	0.000	400.000	mmho-m	627.541	-8.365
Medium	0.020	0.754	V	0.000	462.500	mmho-m	630.311	-12.549

Litho Density Calibration Report

Serial: 003N Model: PRB
Performed Mon Jun 08 10:53:05 2009

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	2028.8	12047.1	4181.3	13199.9	cps
Window 2	1822.8	9337.8	3431.4	10000.3	cps
Window 3	1564.8	5811.2	2442.8	6095.5	cps
Window 4	469.1	474.6	468.9	469.9	cps
Long Space	0.0	7514.9	1608.6	8177.4	cps
Short Space	1.9	2397.2	1539.5	2522.0	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	

Rib Angle	: 44.0	Rib Slope	: 0.965	Density/Spine Ratio	: 0.549
Spine Angle	: 74.0	Spine Slope	: 3.481	Spine Intercept	: -18.2

Caliper

	Readings	Reference
Low Ref	2.1	6.3
High Ref	4.4	14.0
	Gain: 3.3	Offset: -0.5

Compensated Neutron Calibration Report

Serial Number: NEU_3I
Tool Model: G

CALIBRATION

Detector	Readings	Target	Normalization
Short Space	997.00 cps	1000.00 cps	1.0000
Long Space	986.00 cps	1000.00 cps	1.0000

Gamma Ray Calibration Report

Serial Number: GR3
Tool Model: OPEN
Performed: Wed Jul 15 17:46:22 2009

Calibrator Value:	200.0	GAPI
Background Reading:	3.0	cps
Calibrator Reading:	186.0	cps
Sensitivity:	0.4500	GAPI/cps