SUPERIOR WELL SERVICES

SUPERIOR
Hays, Kansas

DUAL INDUCTION LOG

Company CASTELLI EXPLORATION, INC.
Well GREGG #1-18
Field SHIMER
County COMANCHE State KANSAS

Location: API # : 15-033-21559-0000
1980'FSL & 660'FWL
NW - SW
SEC 18 TWP 33S RGE 16W

Other Services
CDL/CNL

Permanent Datum GROUND LEVEL Elevation 1867
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1876
D.F. 1874
G.L. 1867

Company CASTELLI EXPLORATION, INC.
Well GREGG #1-18
Field SHIMER
County COMANCHE
State KANSAS

Date	06/16/2009		
Run Number	ONE		
Depth Driller	5506		
Depth Logger	5474		
Bottom Logged Interval	5472		
Top Log Interval	0		
Casing Driller	8 5/8 @ 1204'		
Casing Logger	1205'		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 44	CHLORIDES 6000PPM	
pH / Fluid Loss	9.5 / 10.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.20 @ 74F		
Rmf @ Meas. Temp	0.90 @ 74F		
Rmc @ Meas. Temp	1.44 @ 74F		
Source of Rmf / Rmc	CAL/CAL		
Rm @ BHT	0.69 @ 129F		
Time Circulation Stopped	8 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	129F		
Equipment Number	680		
Location	HAYS, KS		
Recorded By	JEFF GRONEWEG		
Witnessed By	TOM CASTELLI	RICK POPP	

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Comments

THANK YOU FOR USING SUPERIOR WELL SERVICES
HAYS, KS. 785-628-6395

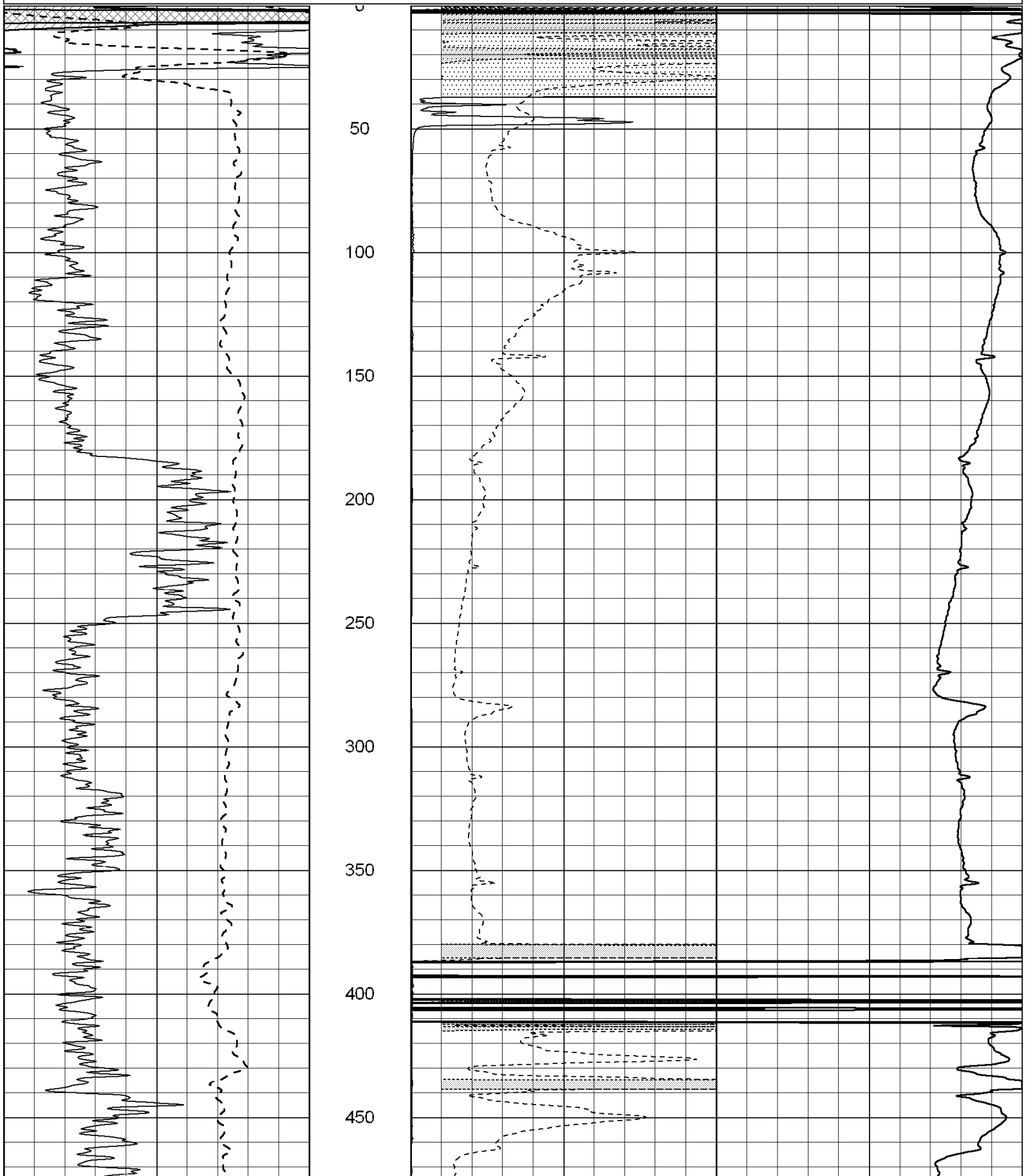
DIRECTIONS: COLDWATER, KS - EAST ON HWY 160 TO MM 193 (RD 22) - SOUTH 4 MILES TO STOP SIGN - EAST 2 MILES TO CURVE - SOUTH PASSED 2 CATTLE GUARDS WEST INTO JUST BEFORE THIRD CATTLE GUARD

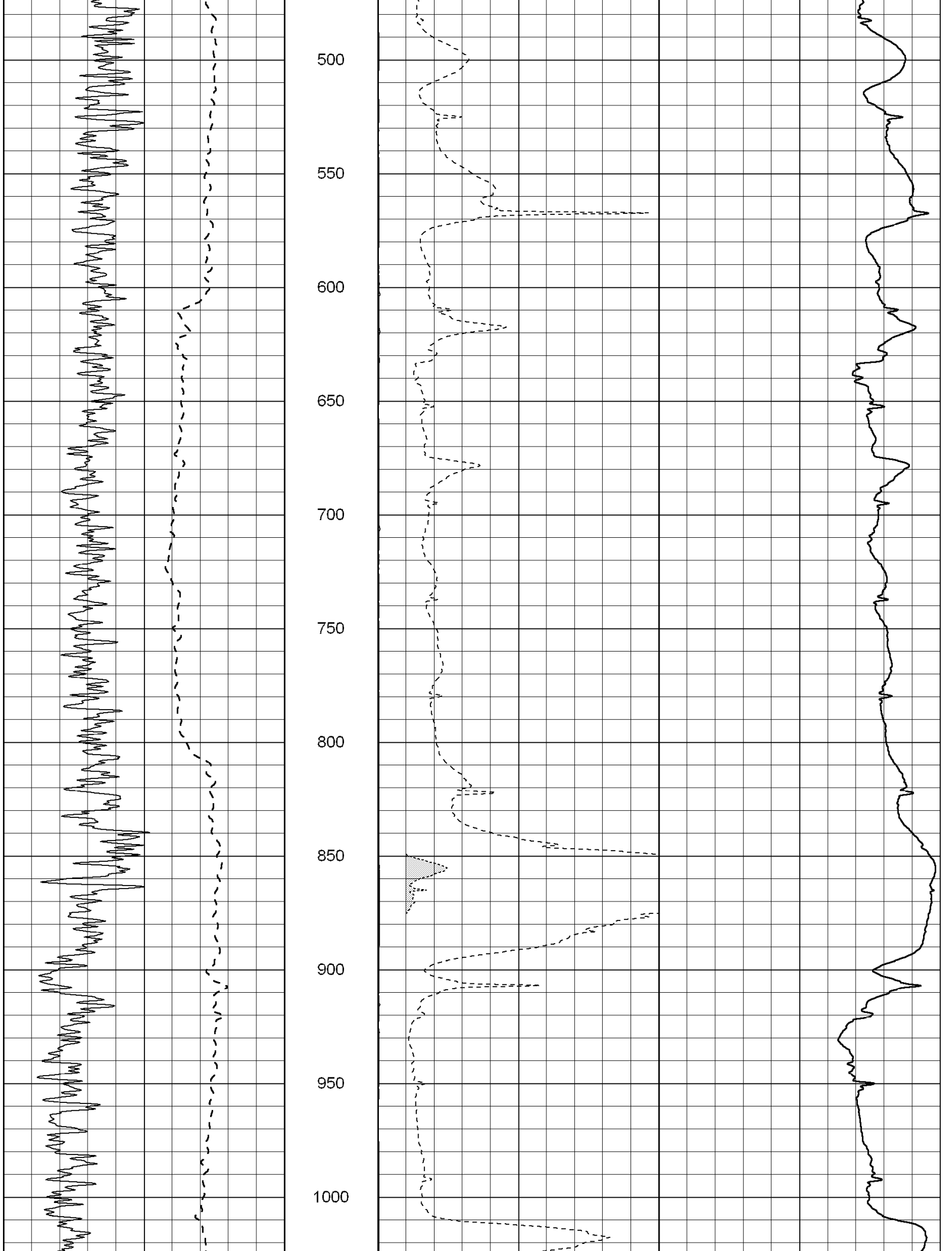
Database File: 003723ddn.db
Dataset Pathname: pass3.5
Presentation Format: _dil2
Dataset Creation: Tue Jun 16 08:07:56 2009 by Calc Open-Cased 070814

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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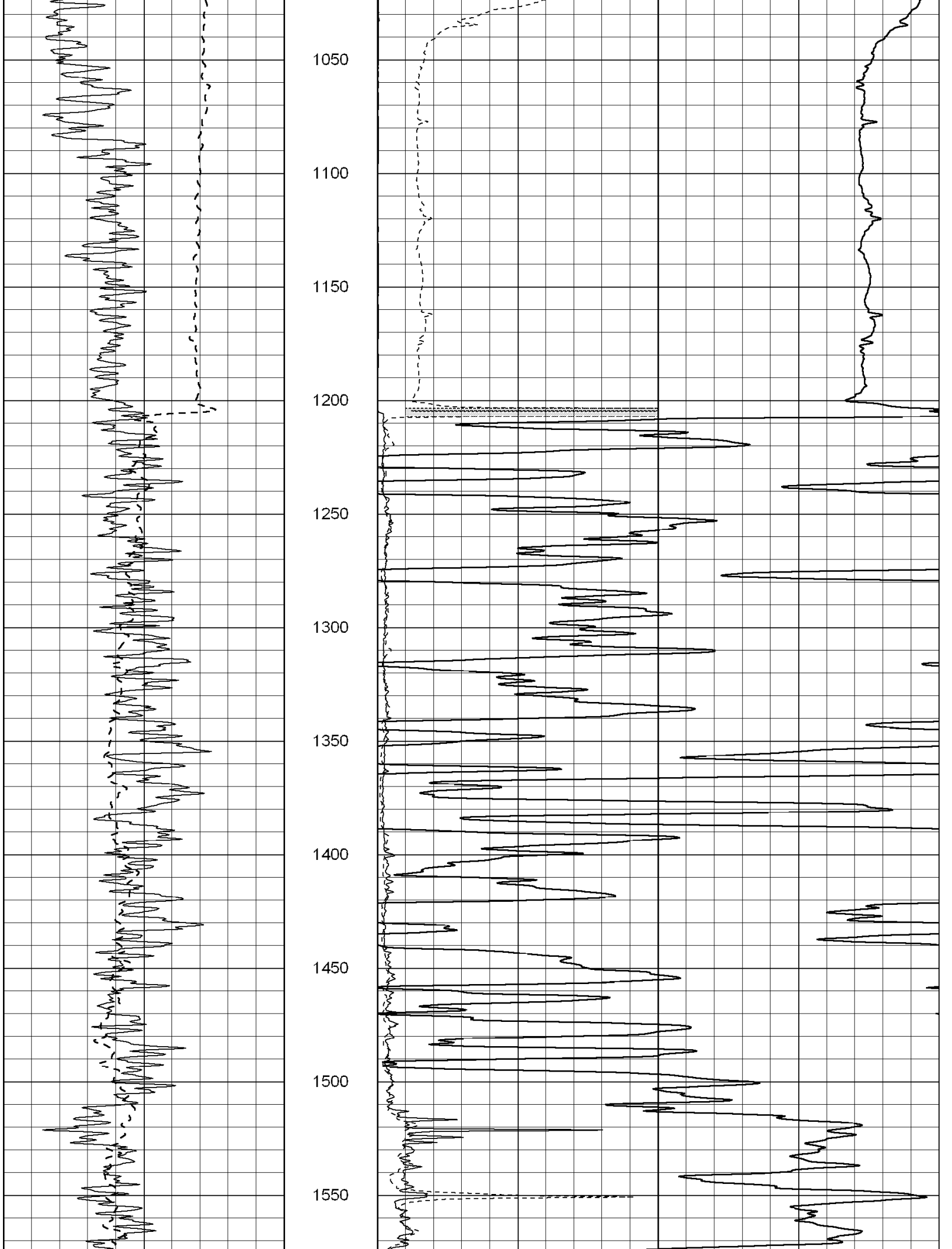
950
1000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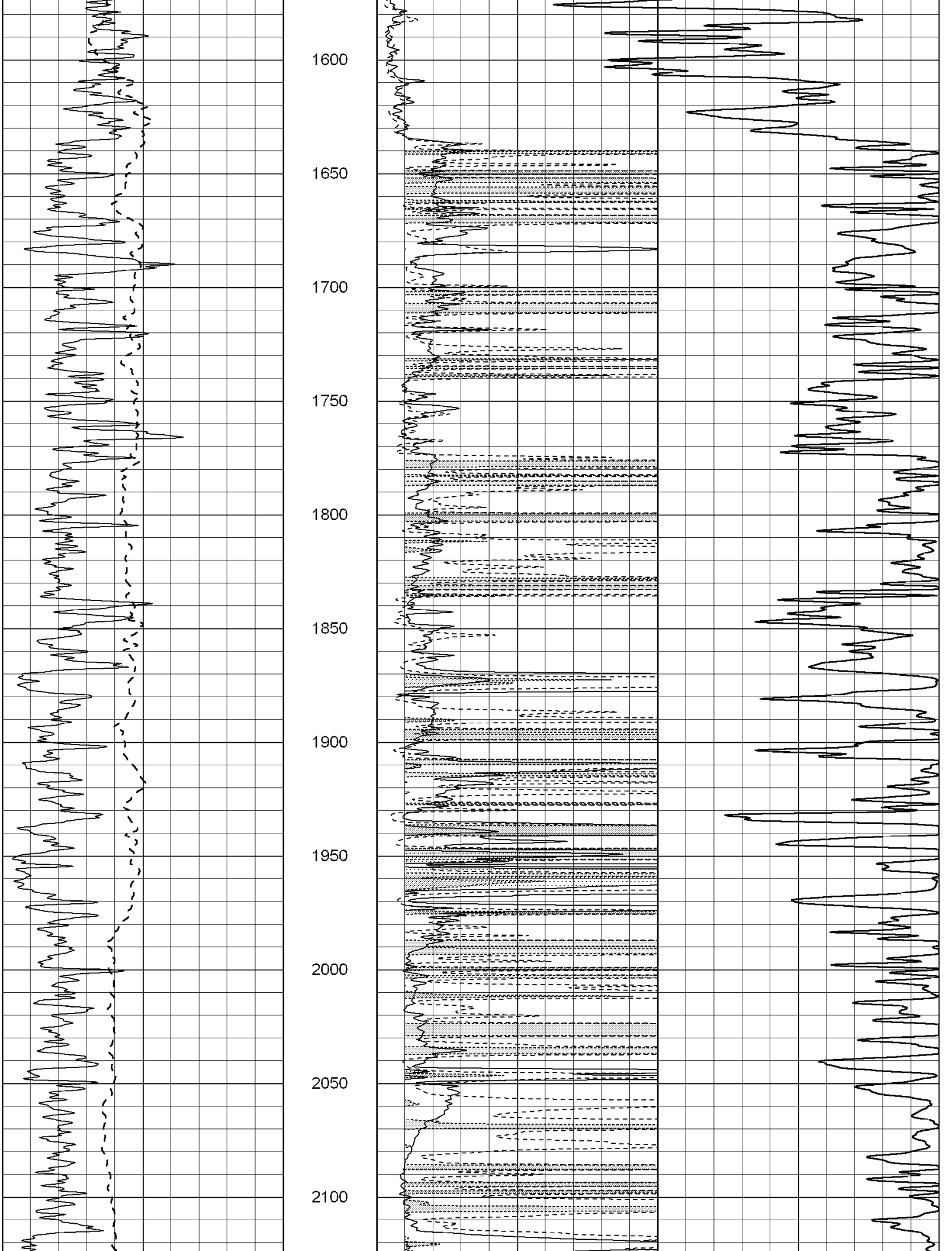
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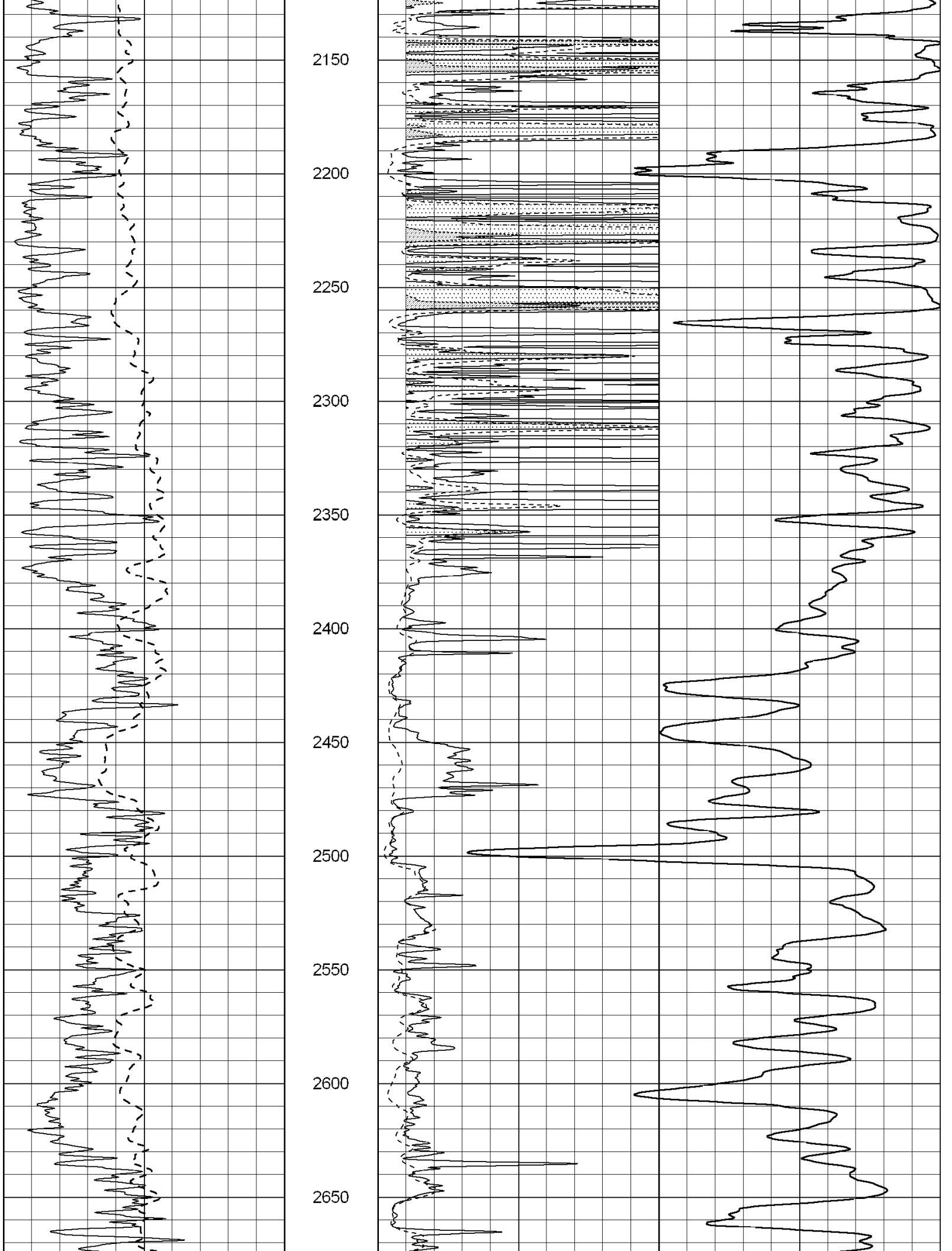
2050
2100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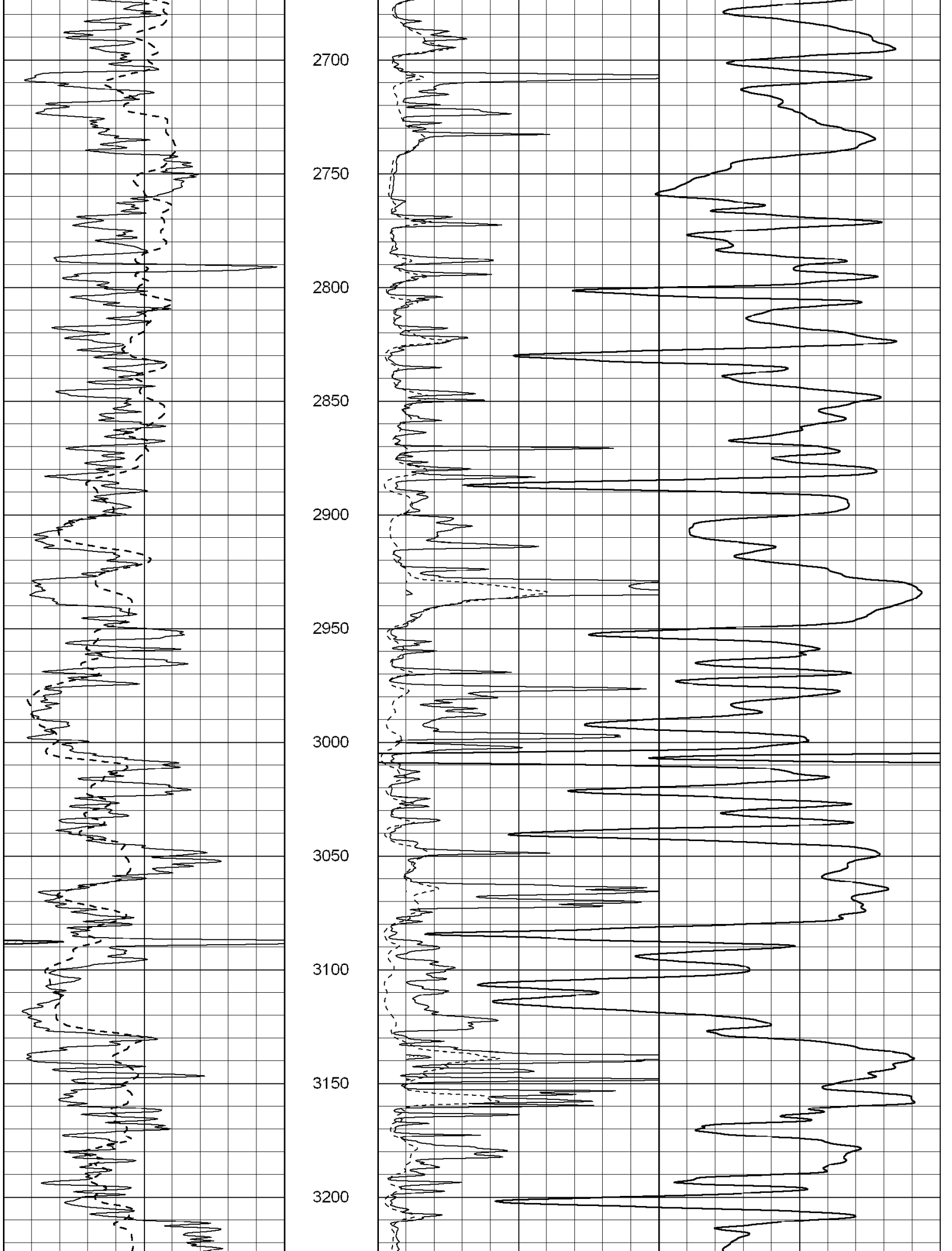
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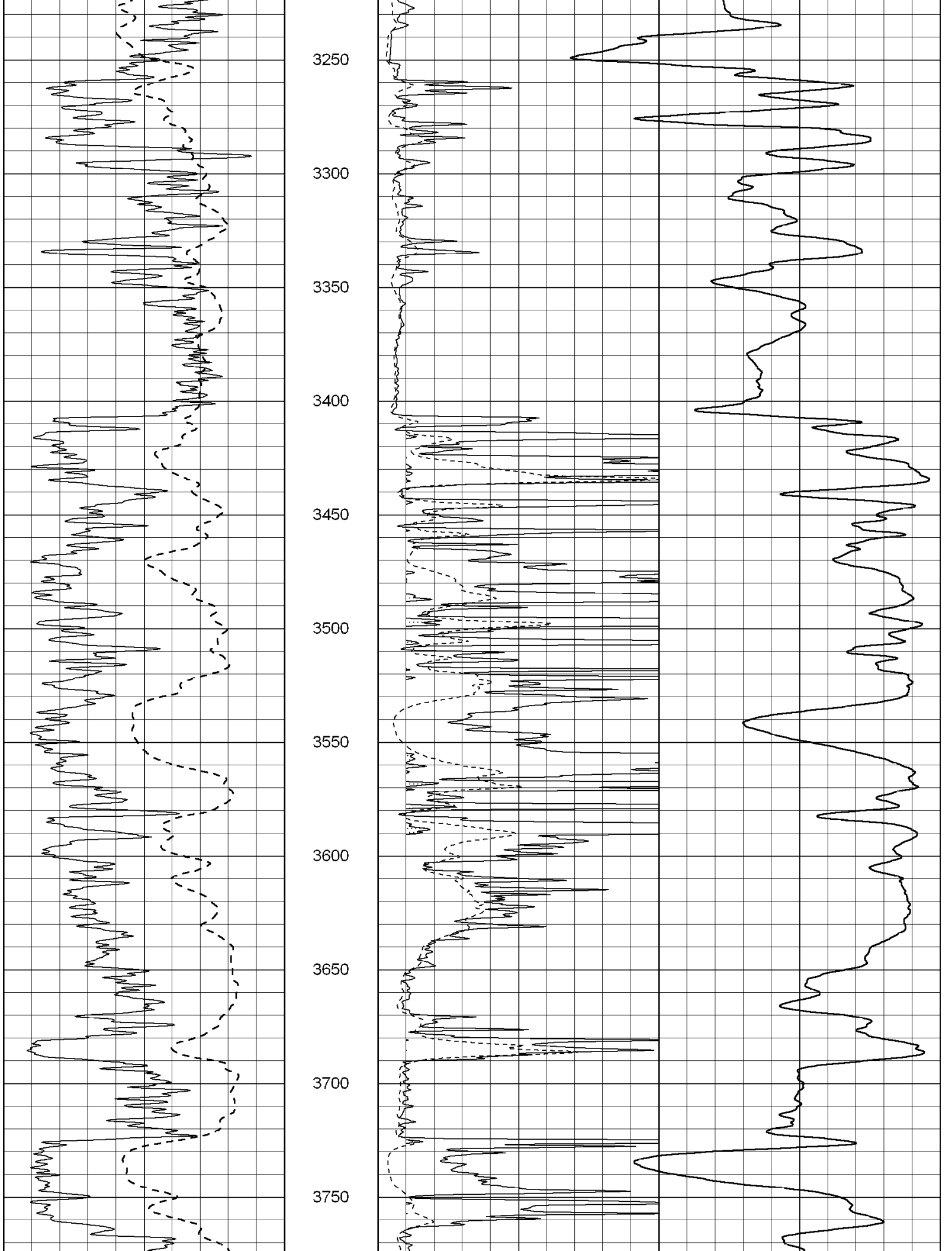
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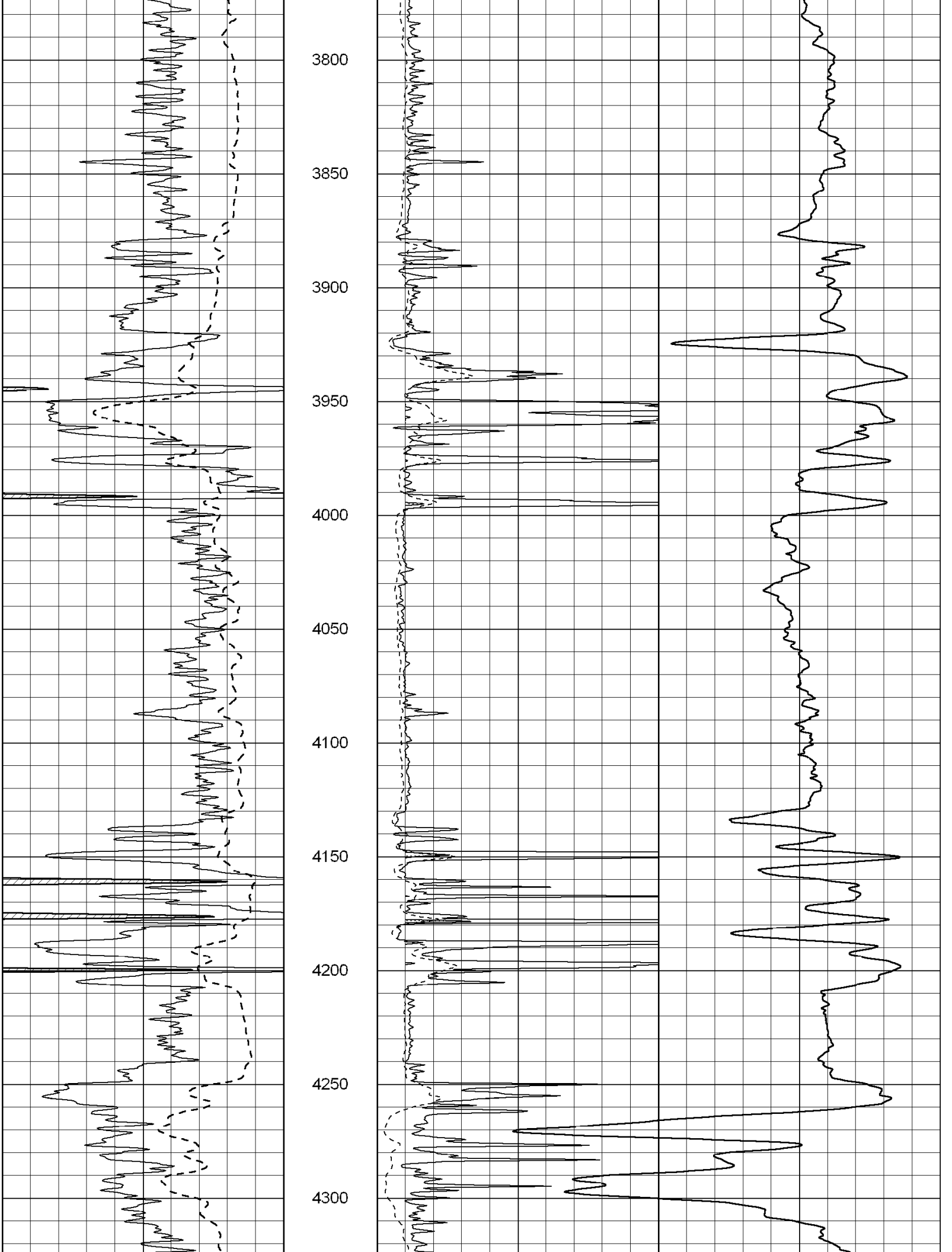
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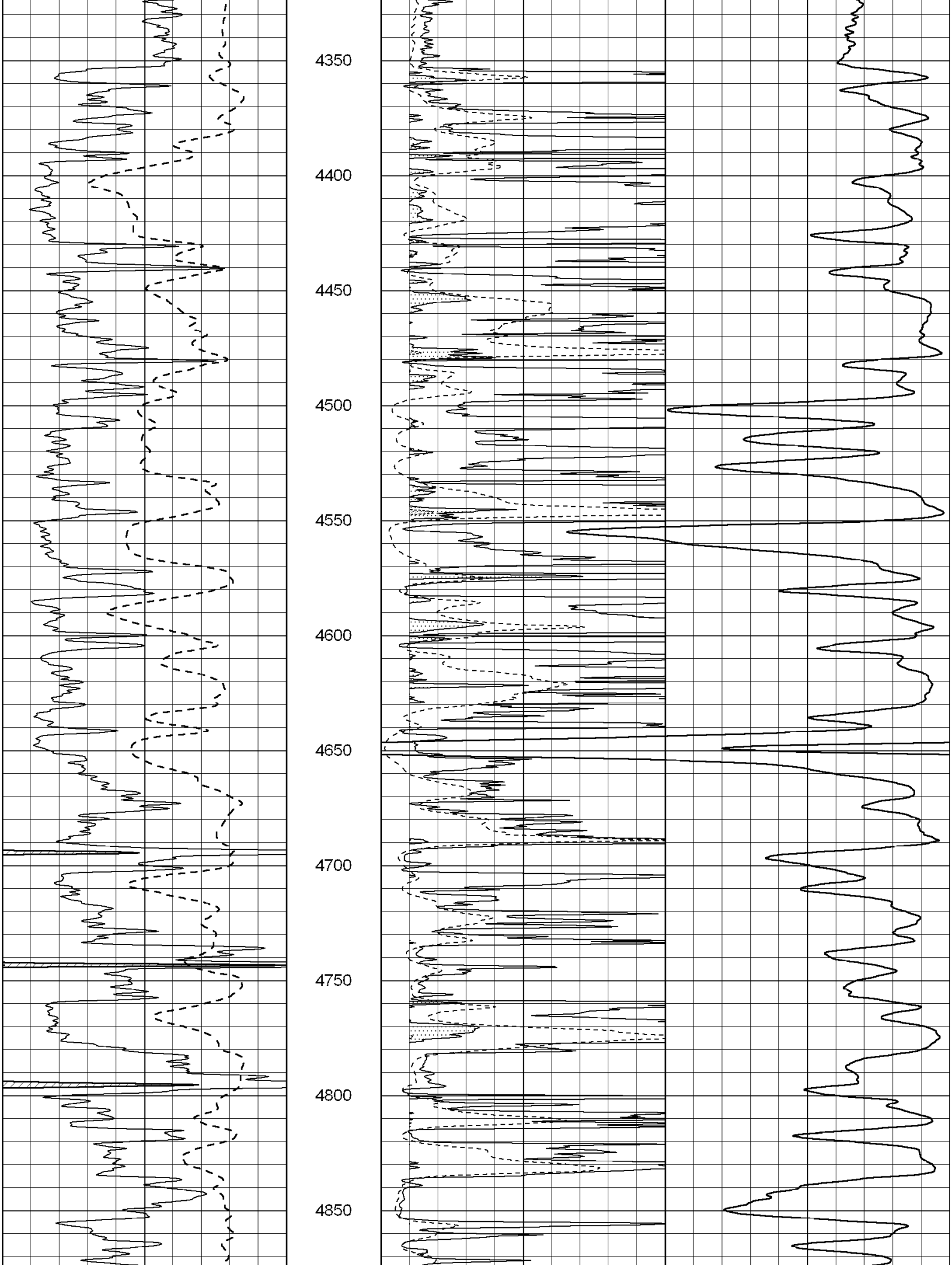
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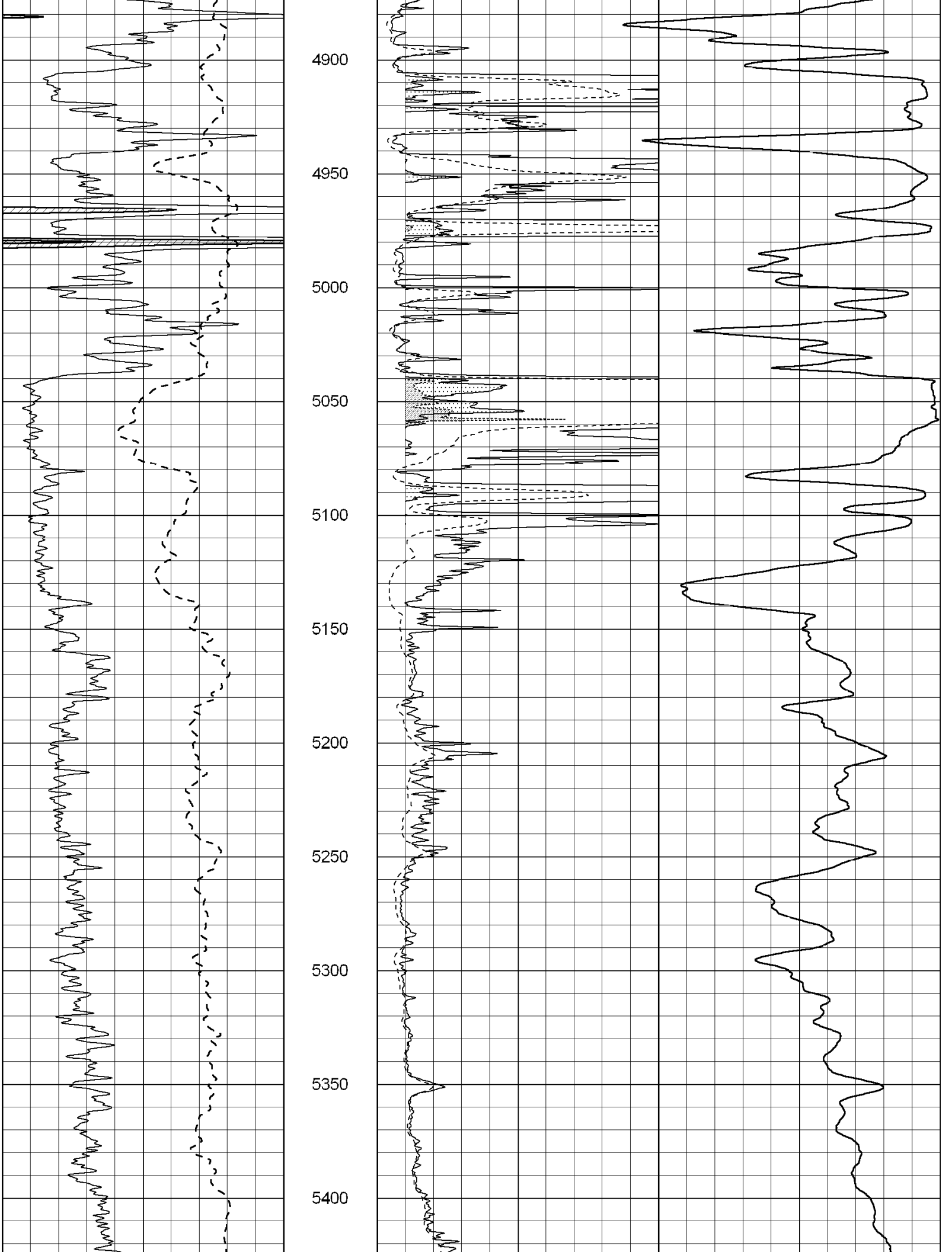
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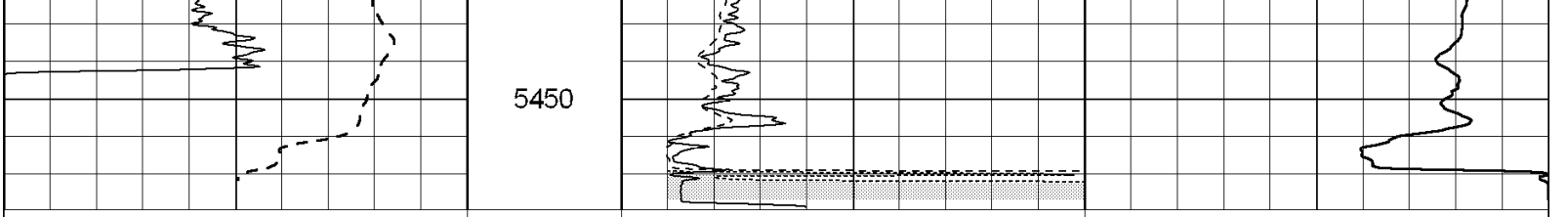

SUPERIOR WELL SERVICES

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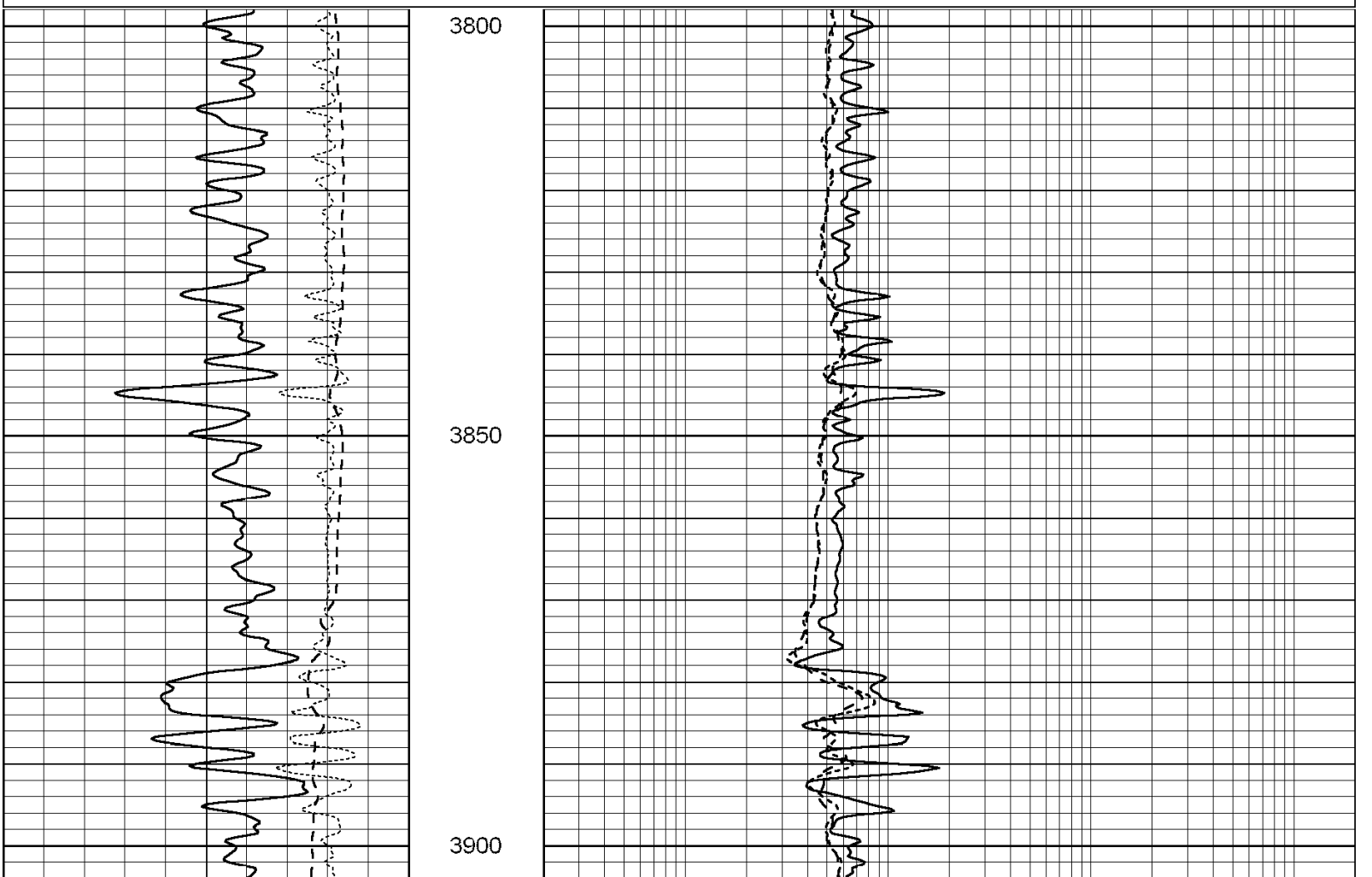
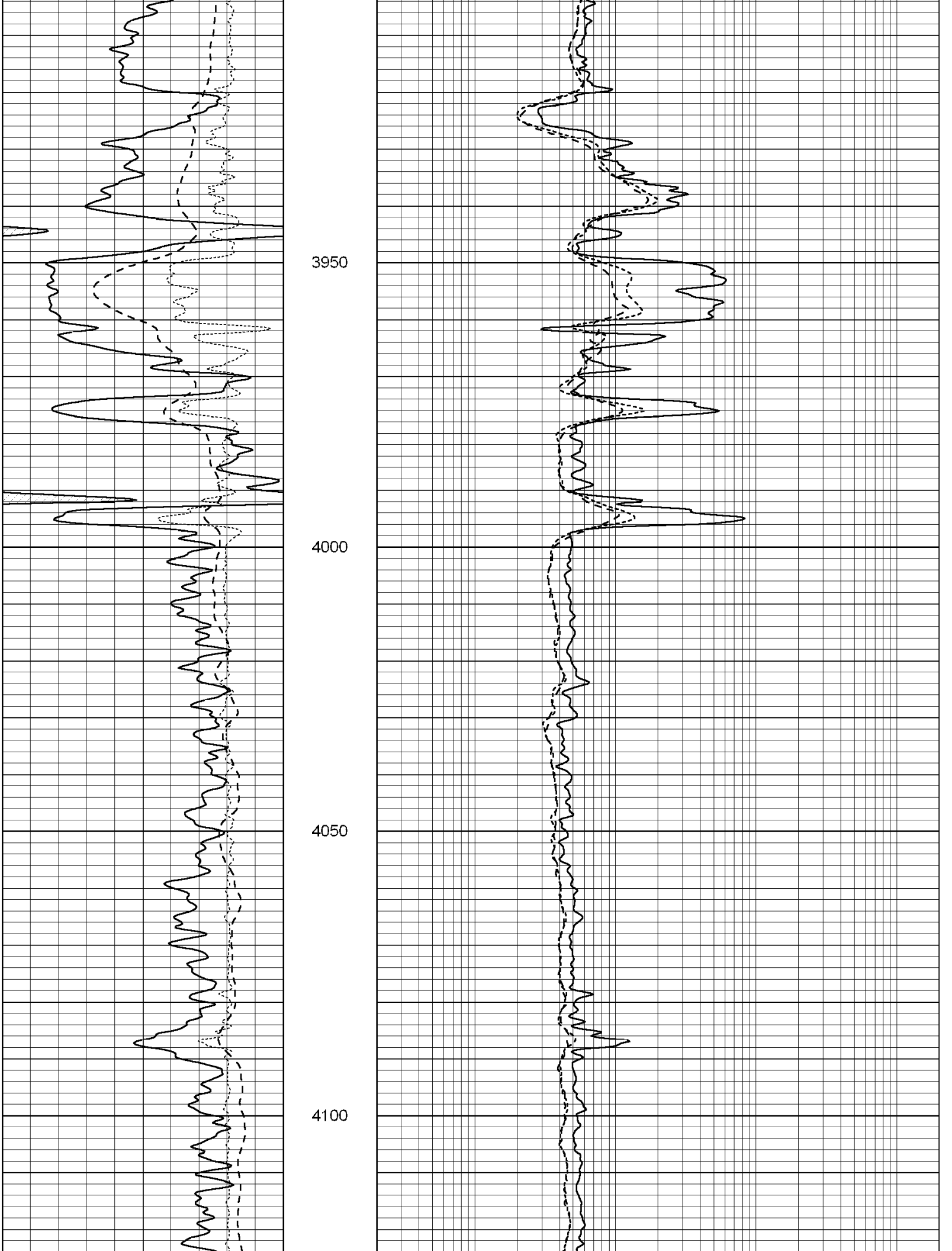
MAIN SECTION

Database File: 003723ddn.db
Dataset Pathname: pass3.4
Presentation Format: _dil
Dataset Creation: Tue Jun 16 07:12:24 2009 by Calc Open-Cased 070814
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

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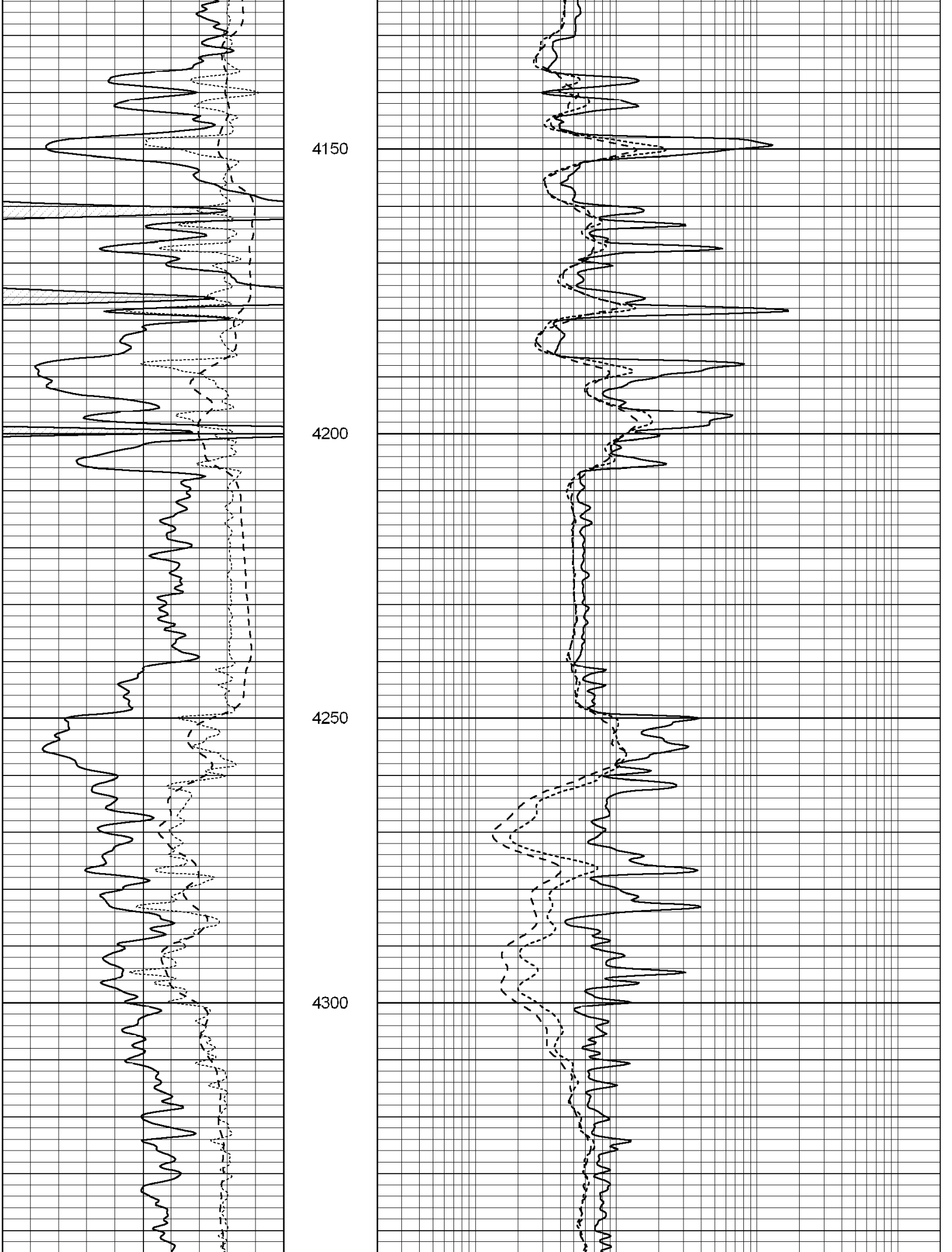
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4200
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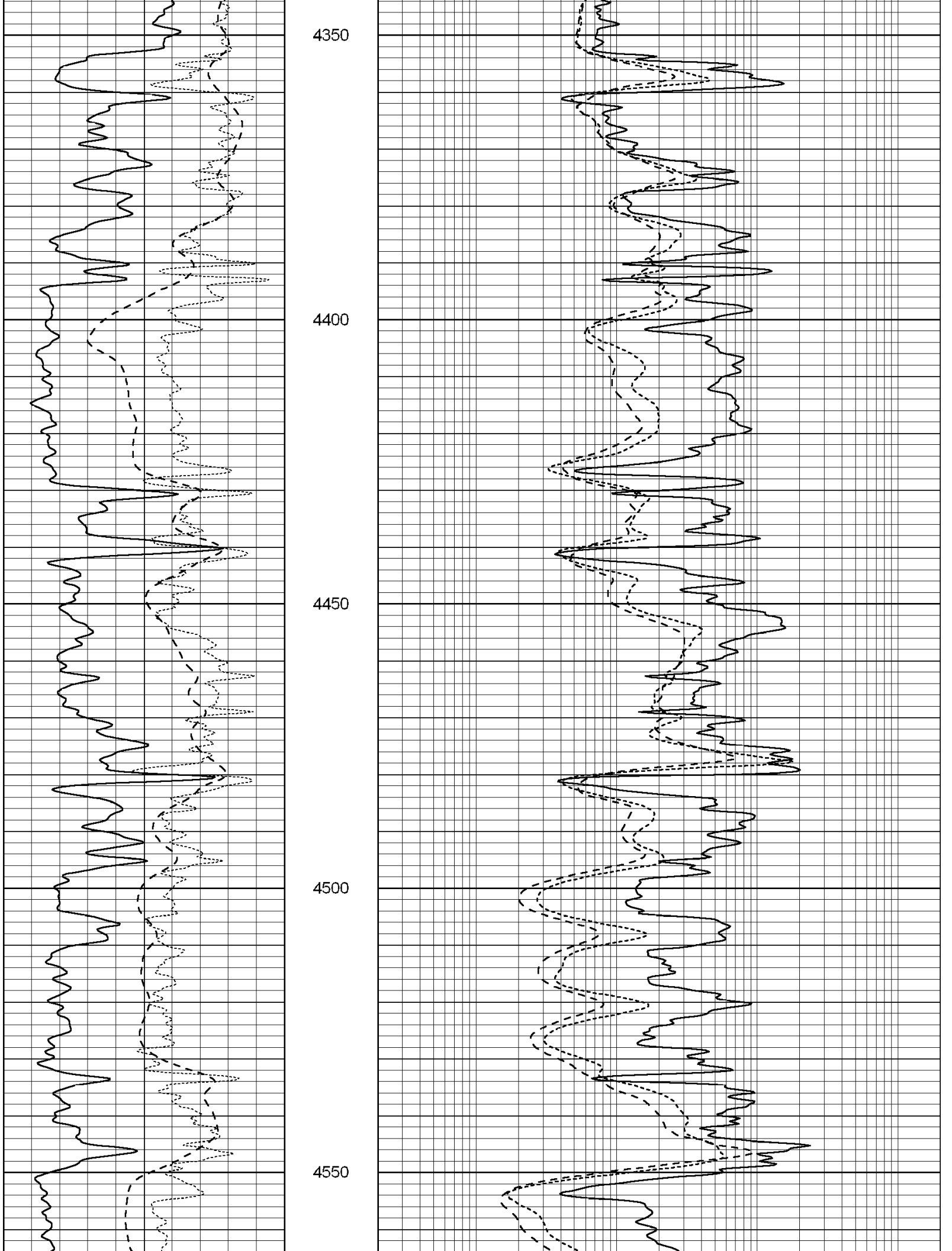
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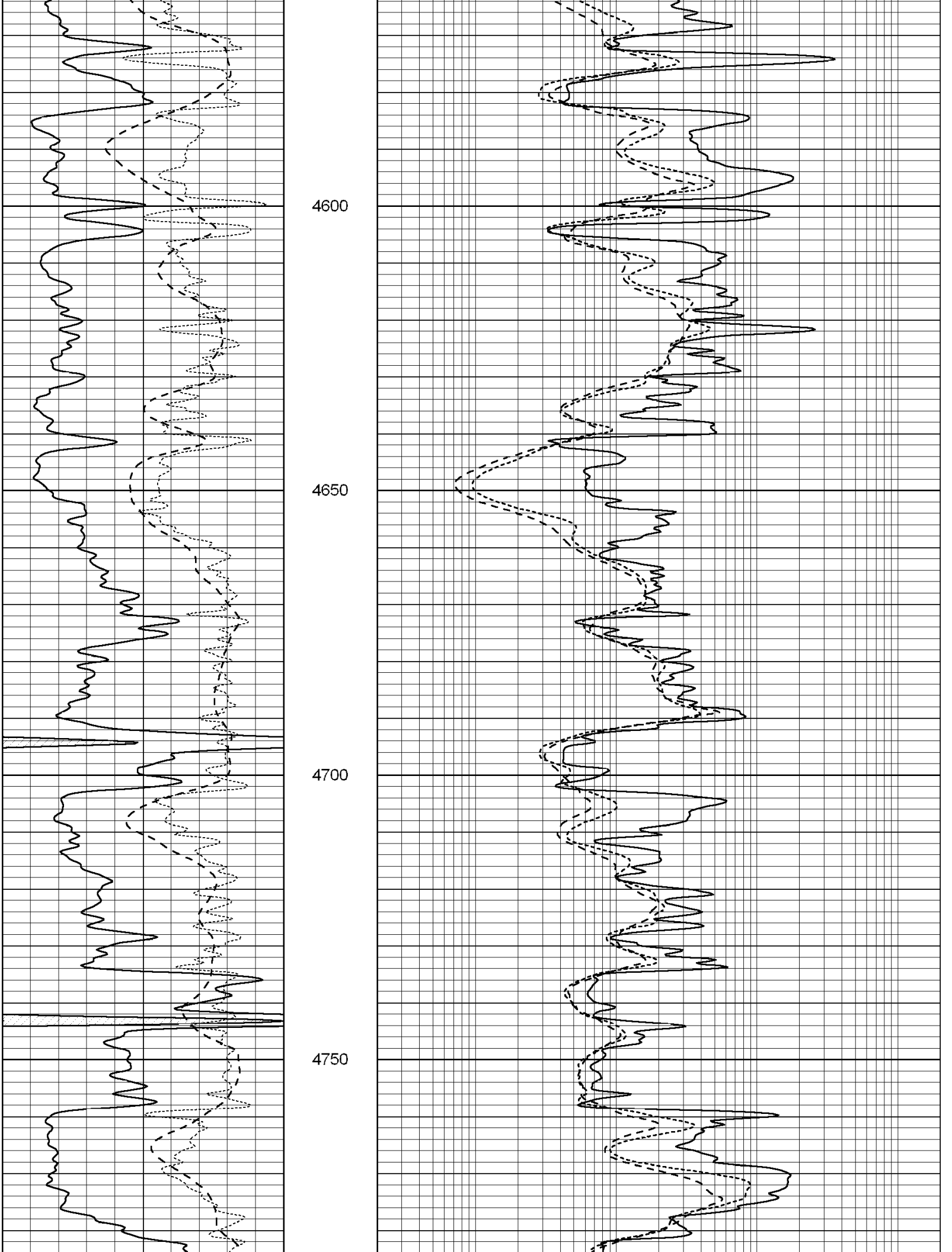
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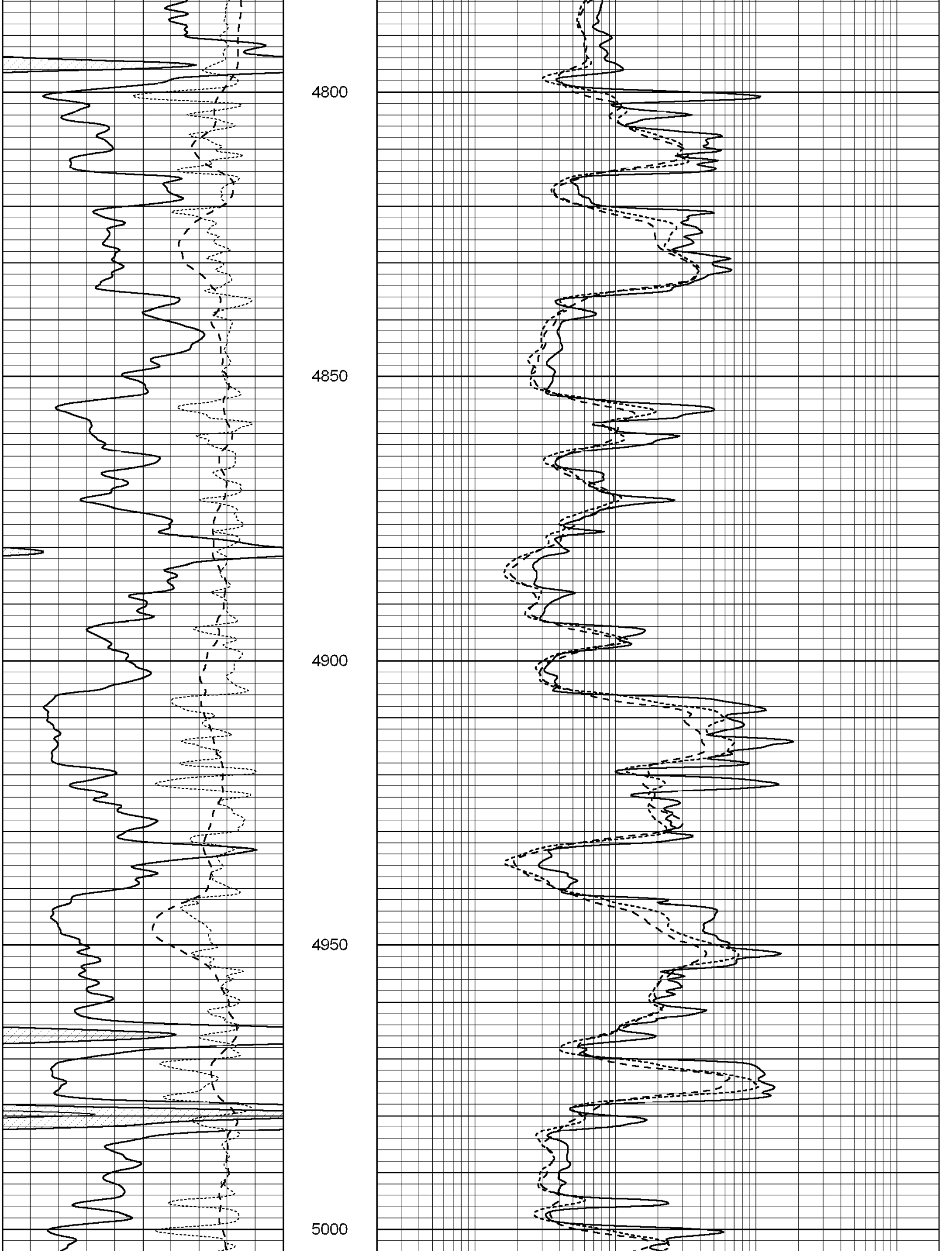
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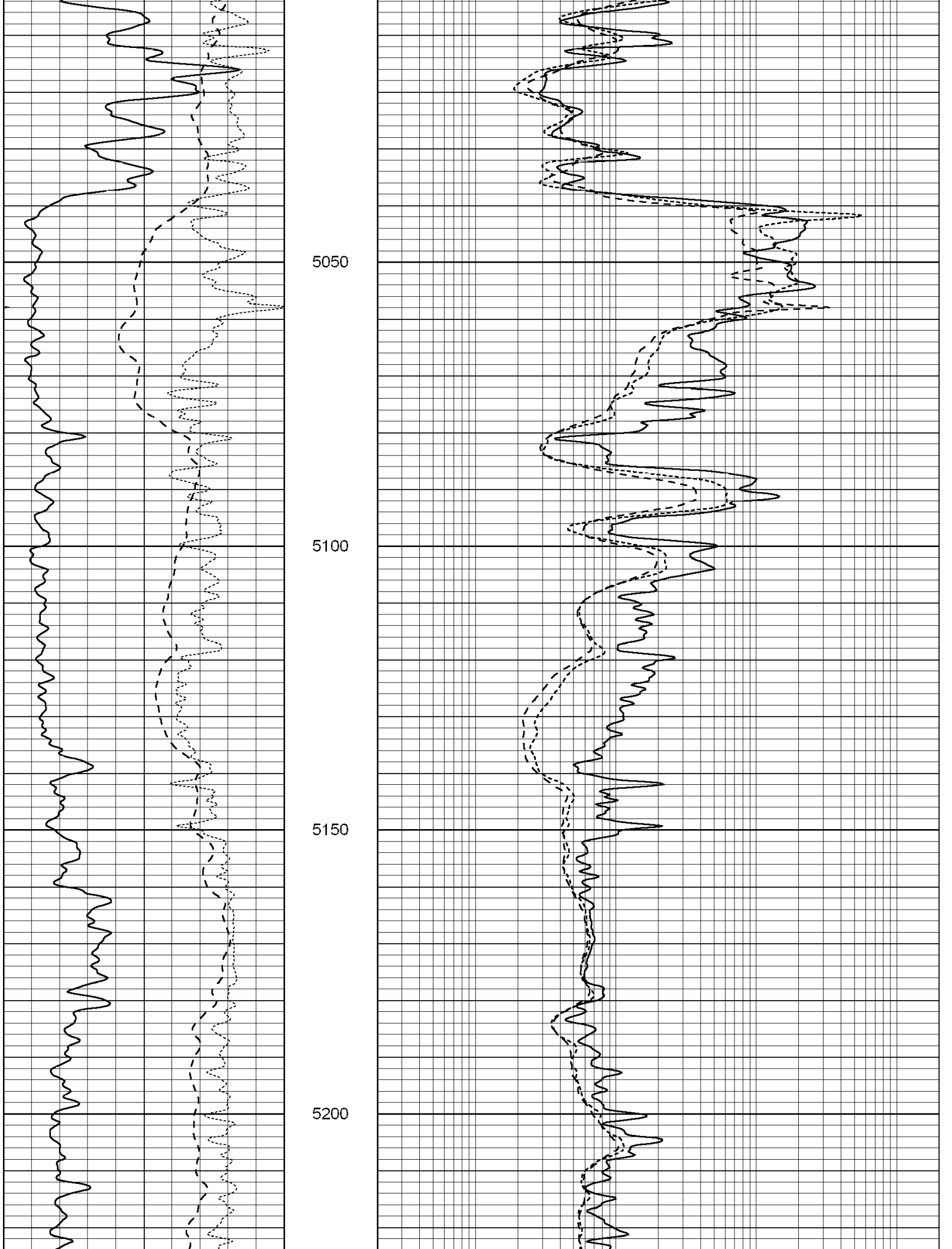
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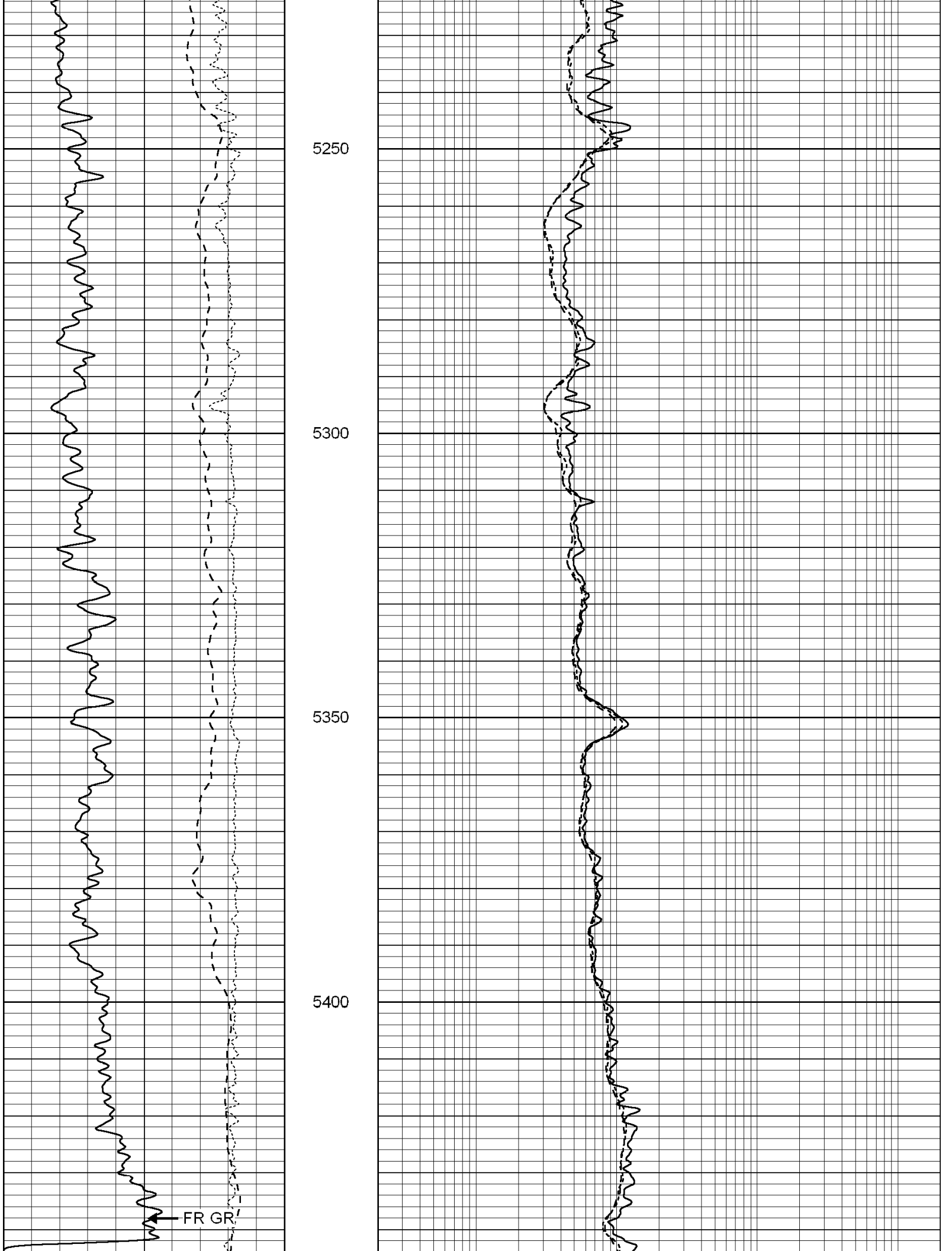
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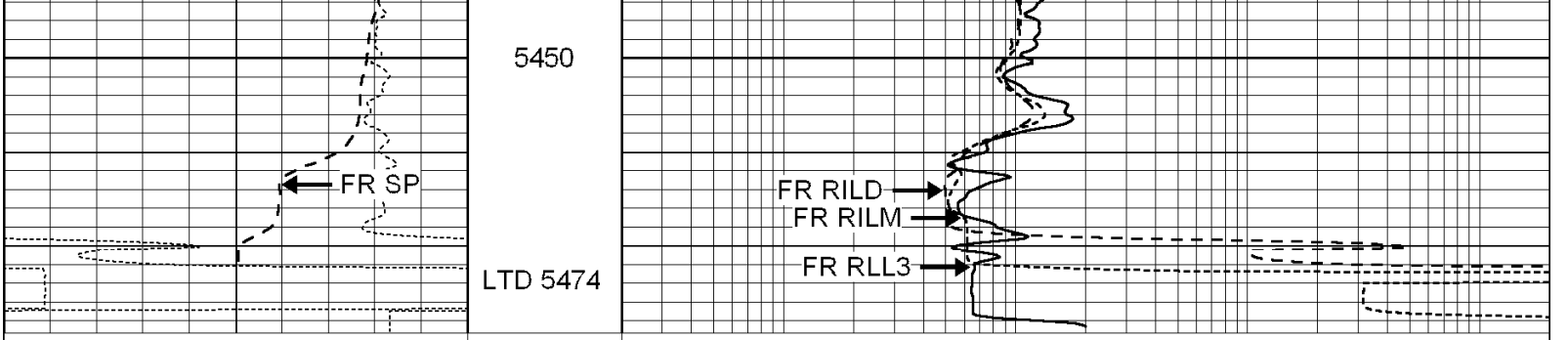

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

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

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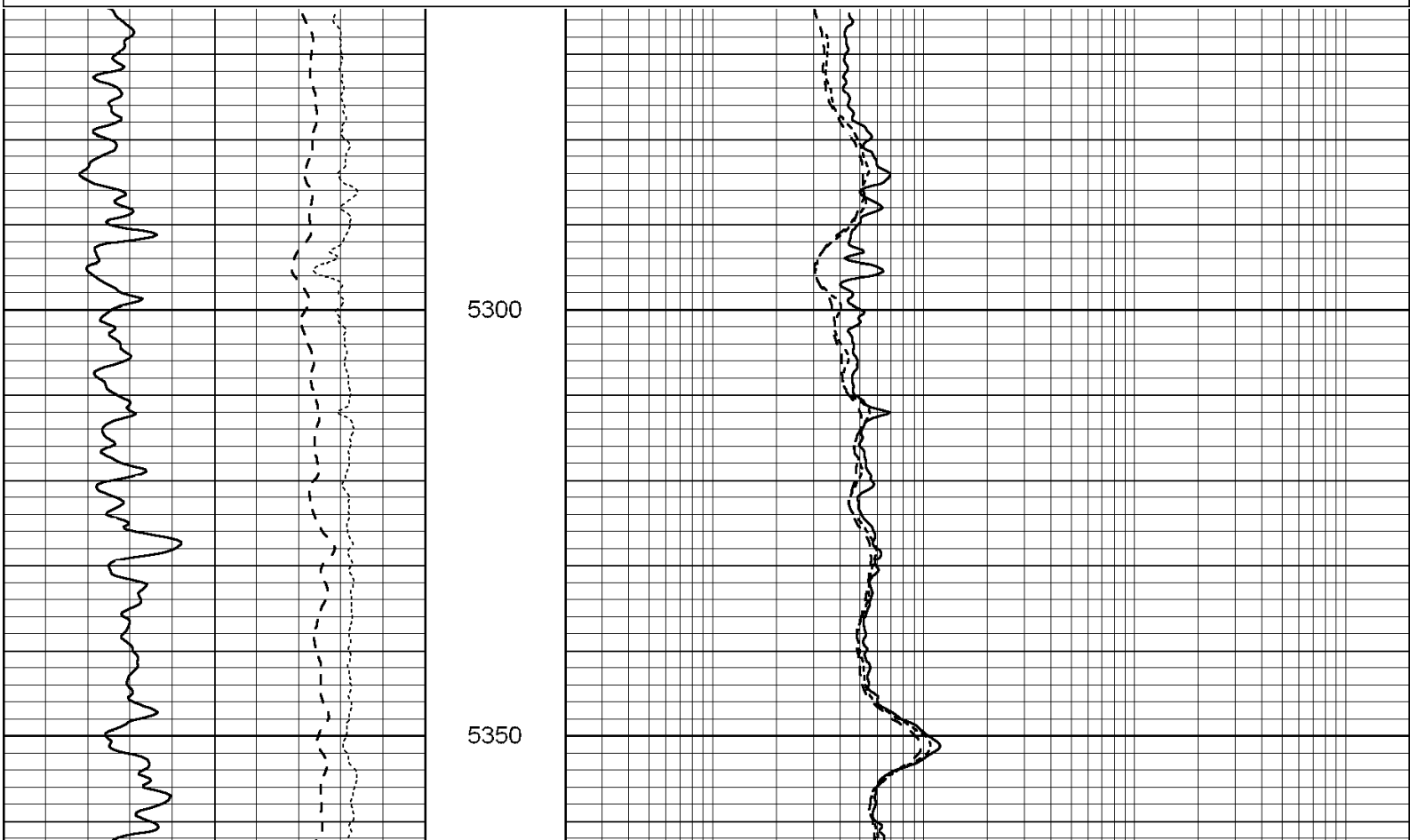
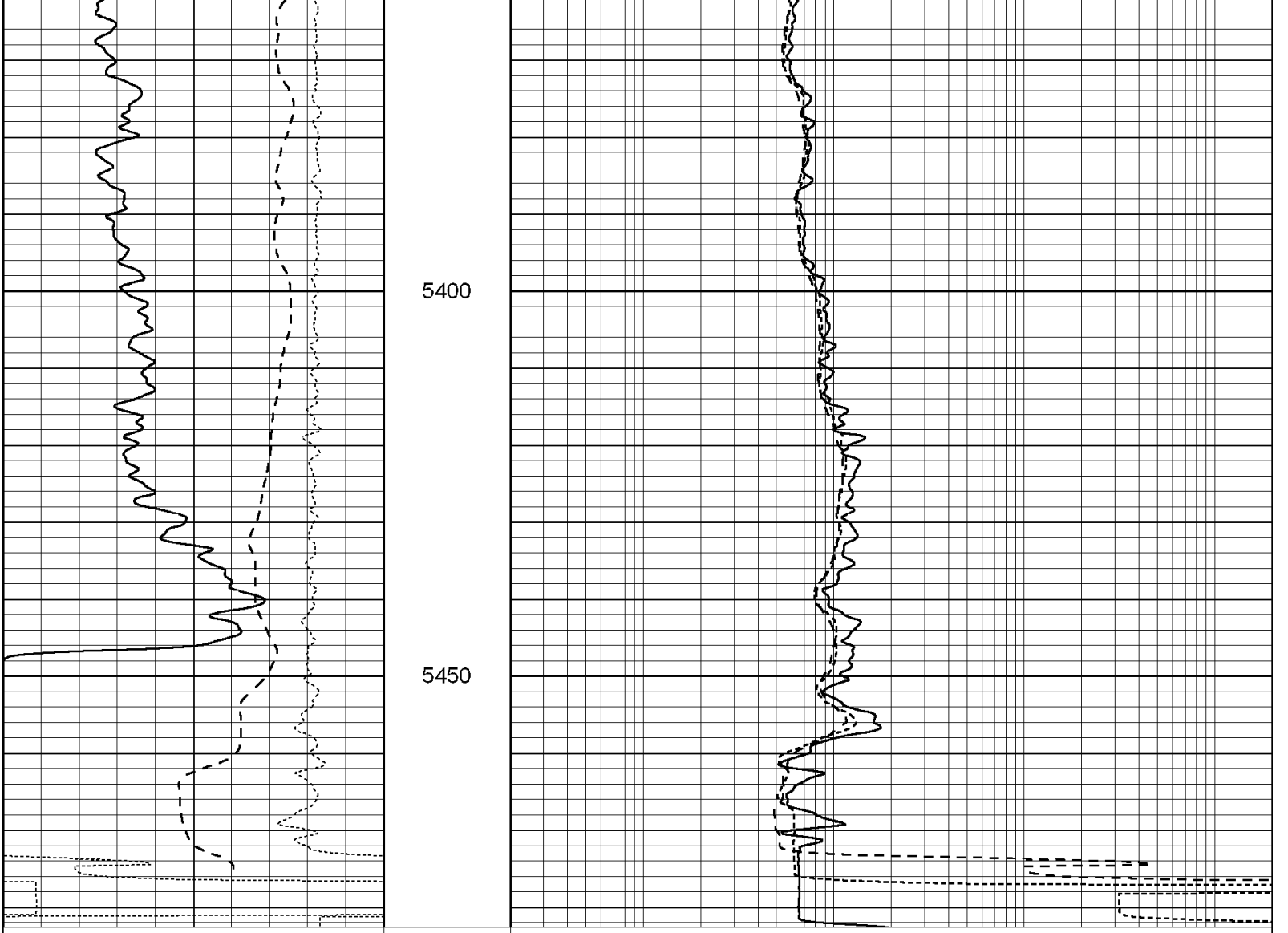
REPEAT SECTION

Database File:	003723ddn.db
Dataset Pathname:	pass2.2
Presentation Format:	_dil
Dataset Creation:	Tue Jun 16 07:19:35 2009 by Calc Open-Cased 070814
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: 003723ddn.db
Dataset Pathname: pass3.5
Dataset Creation: Tue Jun 16 08:07:56 2009 by Calc Open-Cased 070814

Dual Induction Calibration Report

Serial-Model:	PROBE8-DILG
Surface Cal Performed:	Fri Aug 01 06:33:19 2008
Downhole Cal Performed:	Mon Jul 28 11:08:27 2008
After Survey Verification Performed:	Mon Jul 28 11:08:27 2008

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho-m	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho-m	605.049	-17.680
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho-m	625.153	-10.618

Deep	0.017	0.657	V	0.000	400.000	mmho-m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho-m	625.992	-9.739

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho-m	2.011	405.777	mmho-m	1.000	0.000
Medium	0.000	0.000	mmho-m	7.590	503.393	mmho-m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-6.500	V		3800.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho-m	0.000	0.000	mmho-m	0.000	0.000
Medium	0.000	0.000	mmho-m	0.000	0.000	mmho-m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Compensated Density Calibration Report

Serial-Model: GEAR4-GEARHART
Source / Verifier: 143 / 143
Master Calibration Performed: Fri Jan 16 10:06:35 2009

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1358.55	649.93	cps
Aluminum	2.580	g/cc	325.11	479.52	cps

Spine Angle = 78.00 Density/Spine Ratio = 0.595

	Size		Reading	
Small Ring	8.00	in	3.56	V
Large Ring	14.00	in	6.65	V

Compensated Neutron Calibration Report

Serial Number: 6I
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: GR6
Tool Model: OPEN
Performed: Sat Jun 06 22:43:03 2009

Calibrator Value: 150.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 276.0 cps

Sensitivity: 0.6735 GAPI/cps