NABORS
COMPLETION & PRODUCTION SERVICES CO.

DUAL INDUCTION LOG

Company MAI OIL OPERATIONS, INC.
Well ALEX DECHANT #2
Field WILDCAT
County NESS
State KANSAS

Company MAI OIL OPERATIONS, INC.

Well ALEX DECHANT #2

Field WILDCAT

County NESS State KANSAS

Location: API # : 15-135-28785-00-00
1665' FNL & 2000' FEL
SE - NW - SW - NE

SEC 17 TWP 20S RGE 22W

Other Services
CNL/CDL
MEL

Elevation
K.B. 2225
D.F. 2223
G.L. 2216

Permanent Datum	GROUND LEVEL Elevation 2216
Log Measured From	KELLY BUSHING 9' A.G.L.
Drilling Measured From	KELLY BUSHING

Date	7/19/14		
Run Number	ONE		
Depth Driller	4430		
Depth Logger	4430		
Bottom Logged Interval	4428		
Top Log Interval	00		
Casing Driller	8 5/8 @ 264'		
Casing Logger	265'		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.4/59	CHLORIDES 11,200 PPM	
pH / Fluid Loss	8.5/16.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.35 @ 81F		
Rmf @ Meas. Temp	0.26 @ 81F		
Rmc @ Meas. Temp	0.42 @ 81F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	0.24 @ 120F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	120F		
Equipment Number	3802		
Location	HAYS, KS.		
Recorded By	IAN MABB		
Witnessed By	CLINT MUSGROVE		

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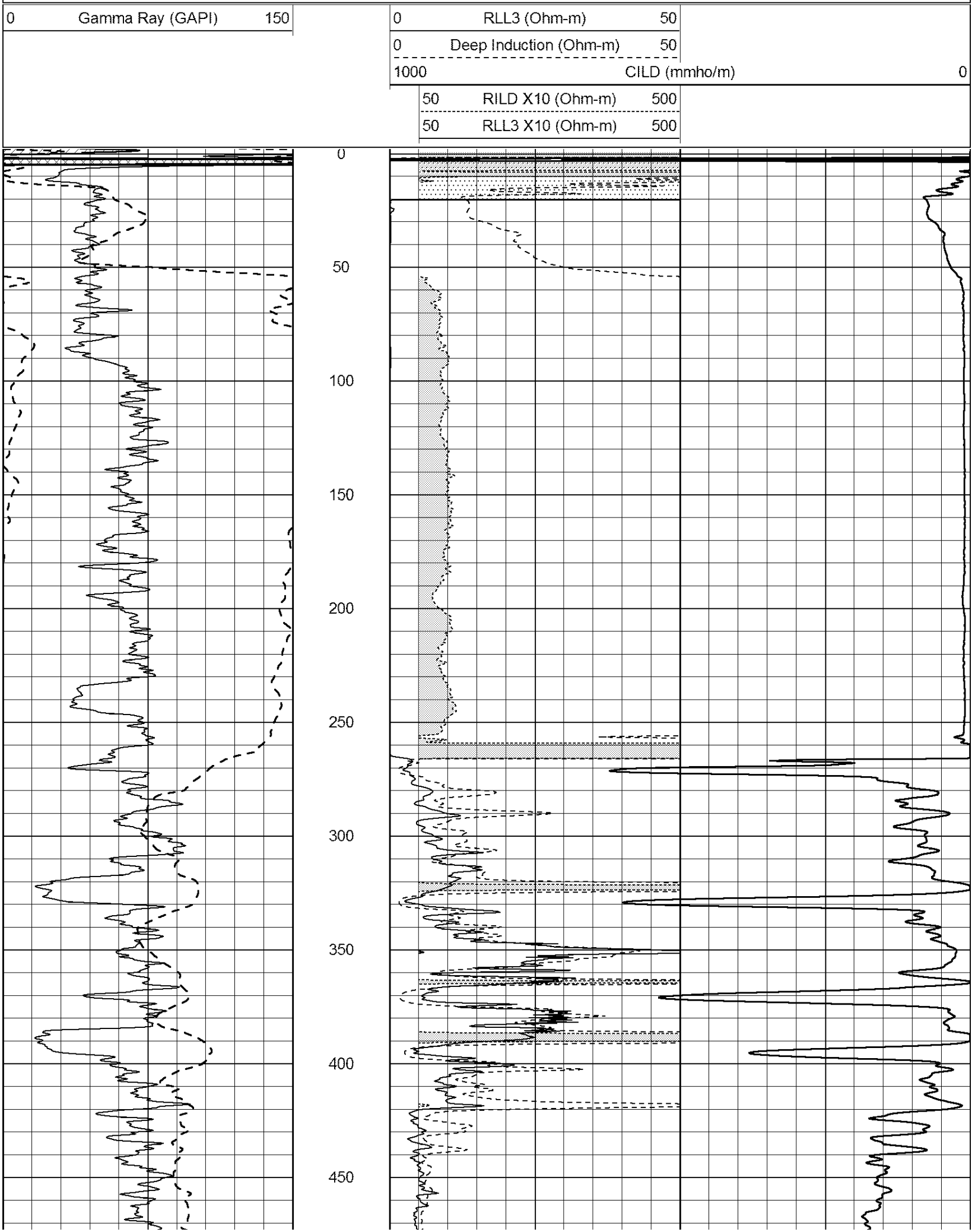
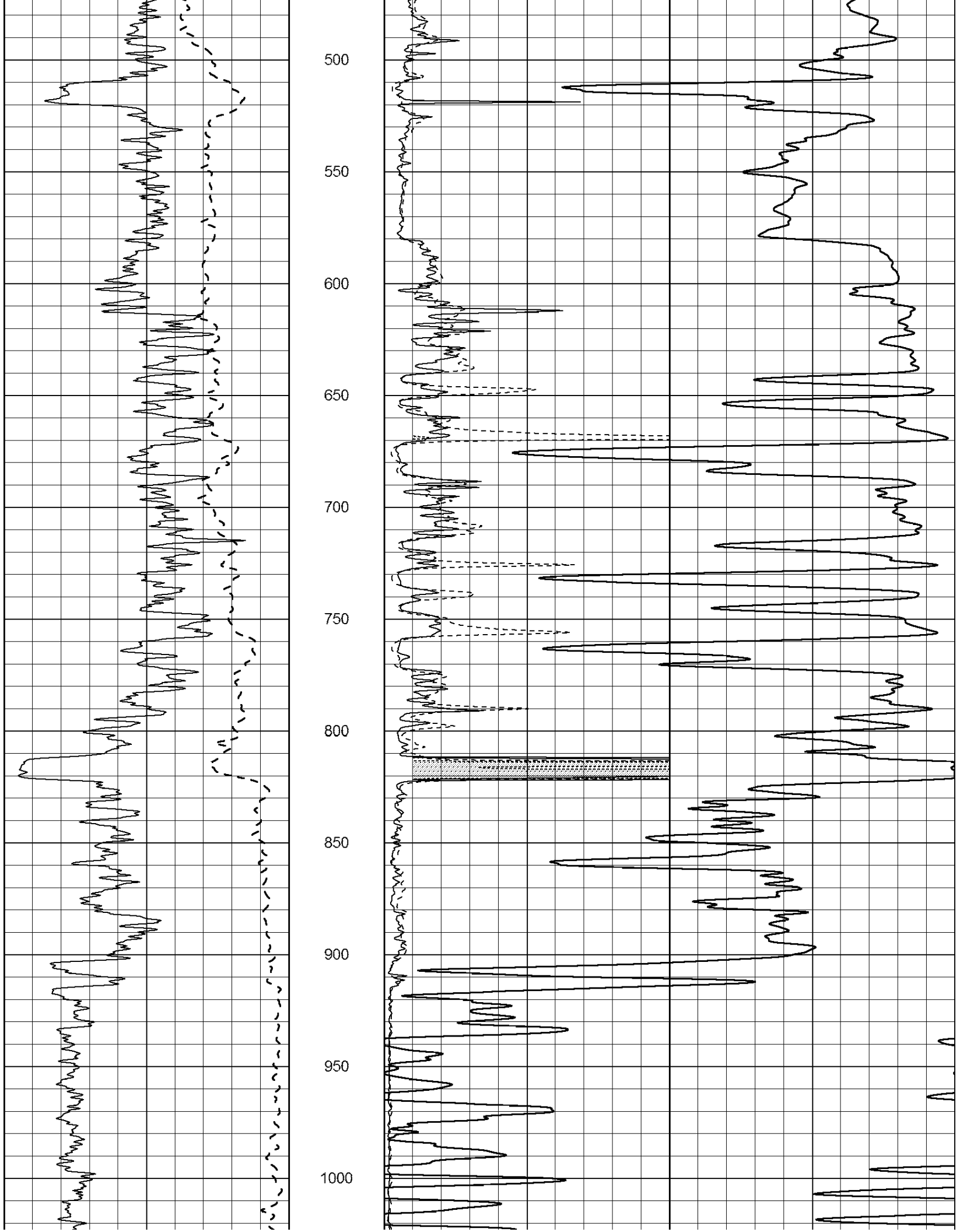
Comments

NABORS COMPLETION & PRODUCTION SERVICES CO.
785 (628 - 6395)
THANK YOU FOR YOUR BUSINESS
DIRECTIONS : NESS CITY, KS. - 7 MILES SOUTH TO RD 50 - 7 MILES EAST TO RD Z - 1 MILE SOUTH - 1/2 MILE WEST - SOUTH INTO

Database File: 2409ddn.db
Dataset Pathname: pass3.2
Presentation Format: _dil2
Dataset Creation: Sat Jul 19 03:15:25 2014 by Calc Open-Cased 090629

Charted by: Depth in Feet scaled 1:600

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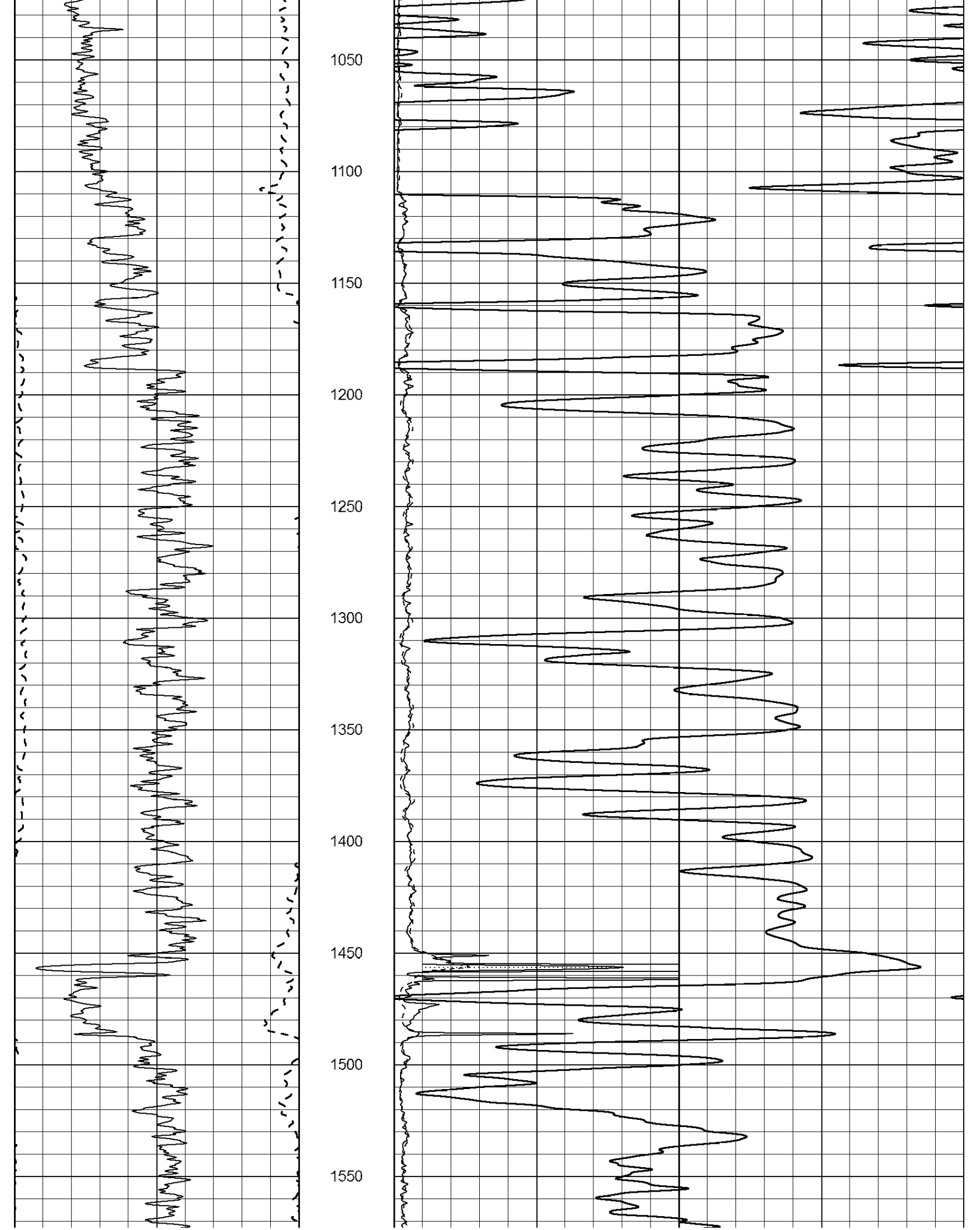
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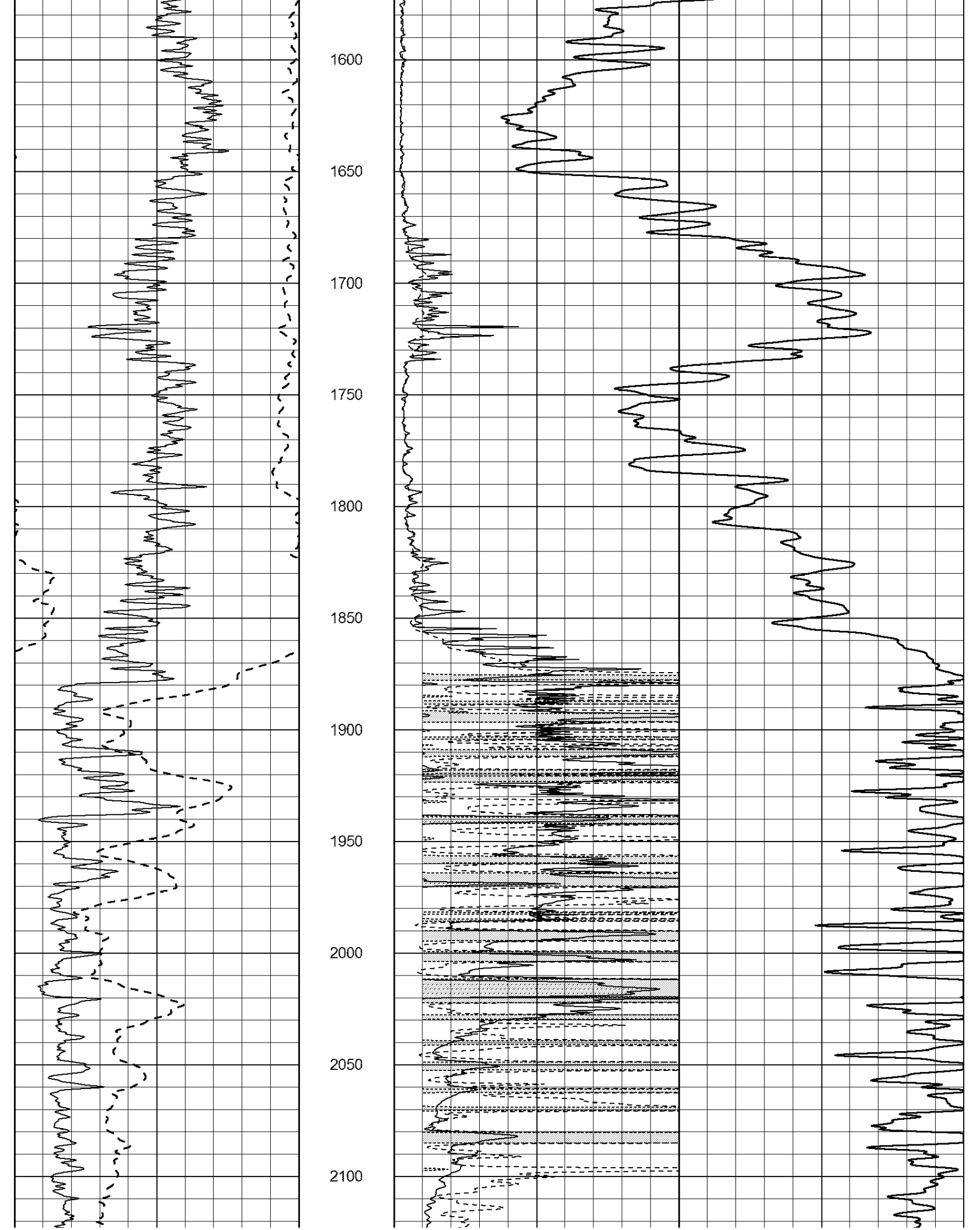
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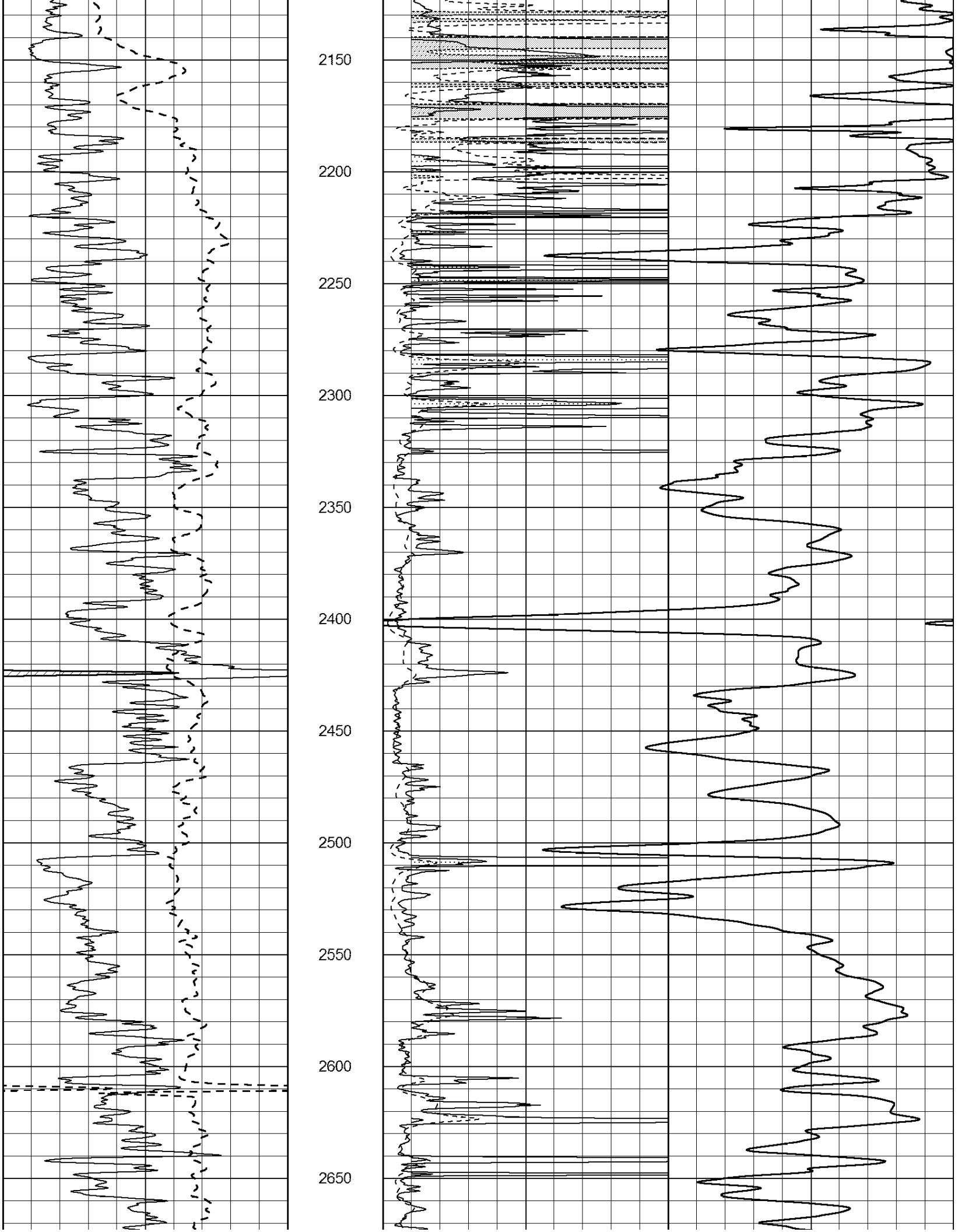
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2600
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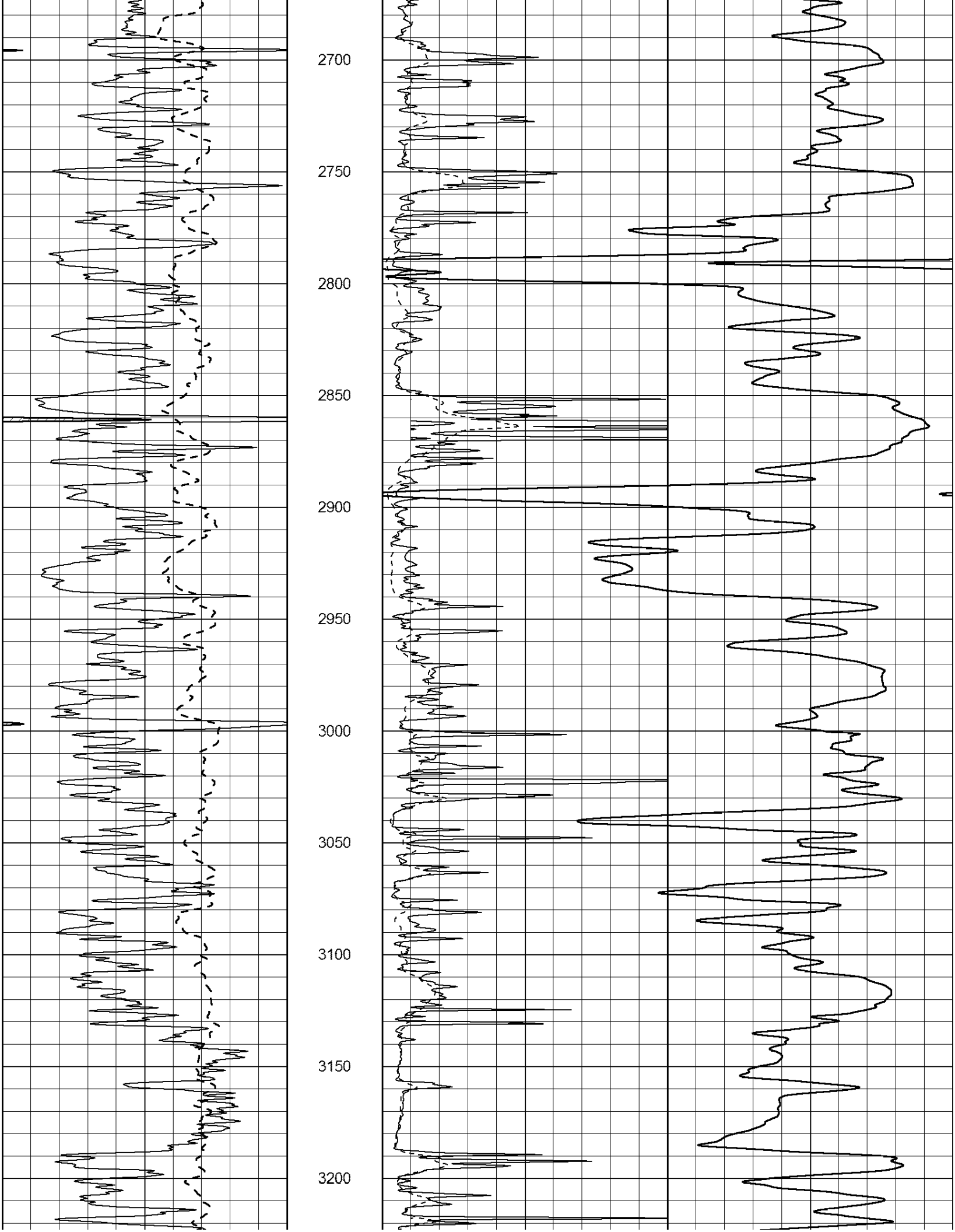
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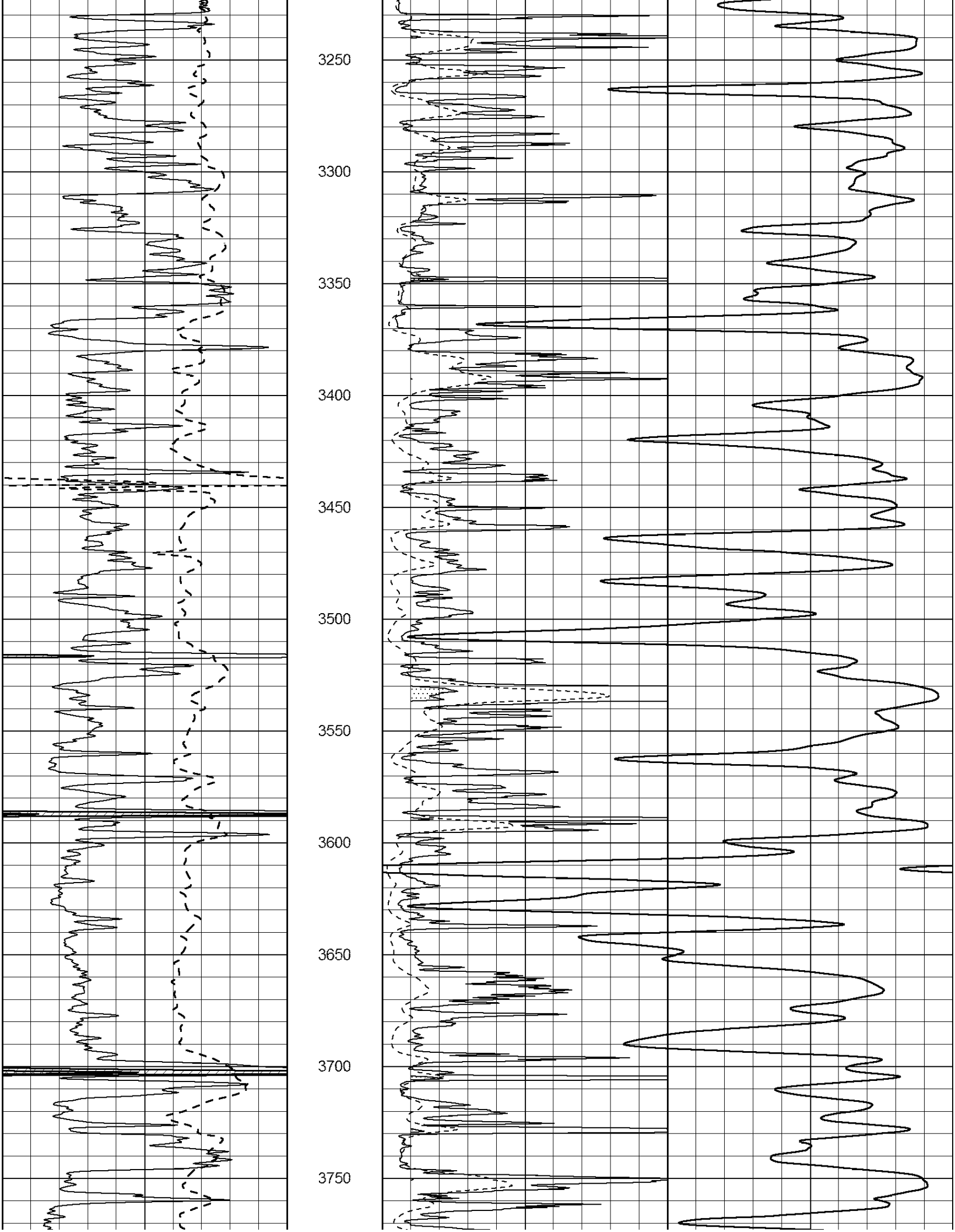
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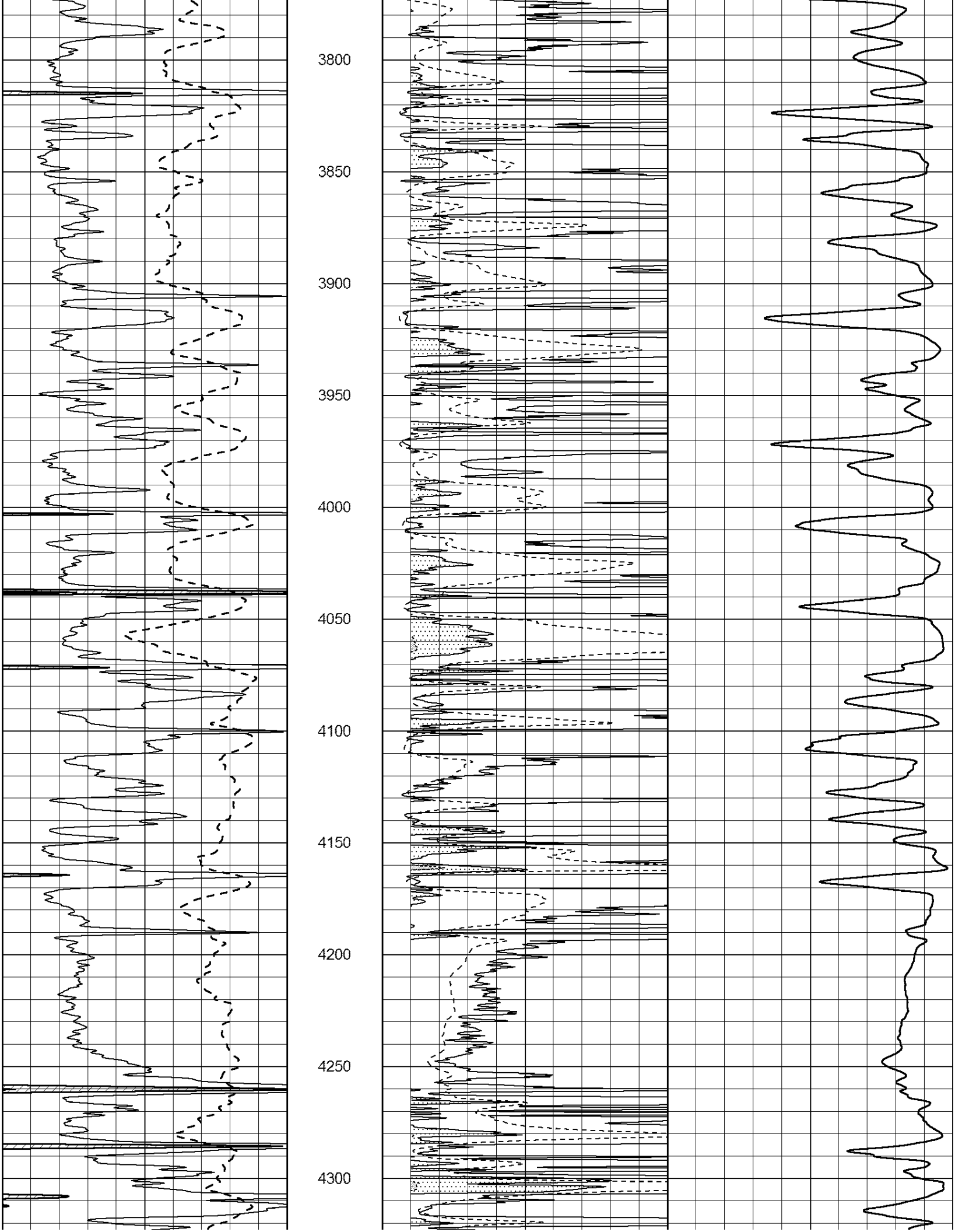
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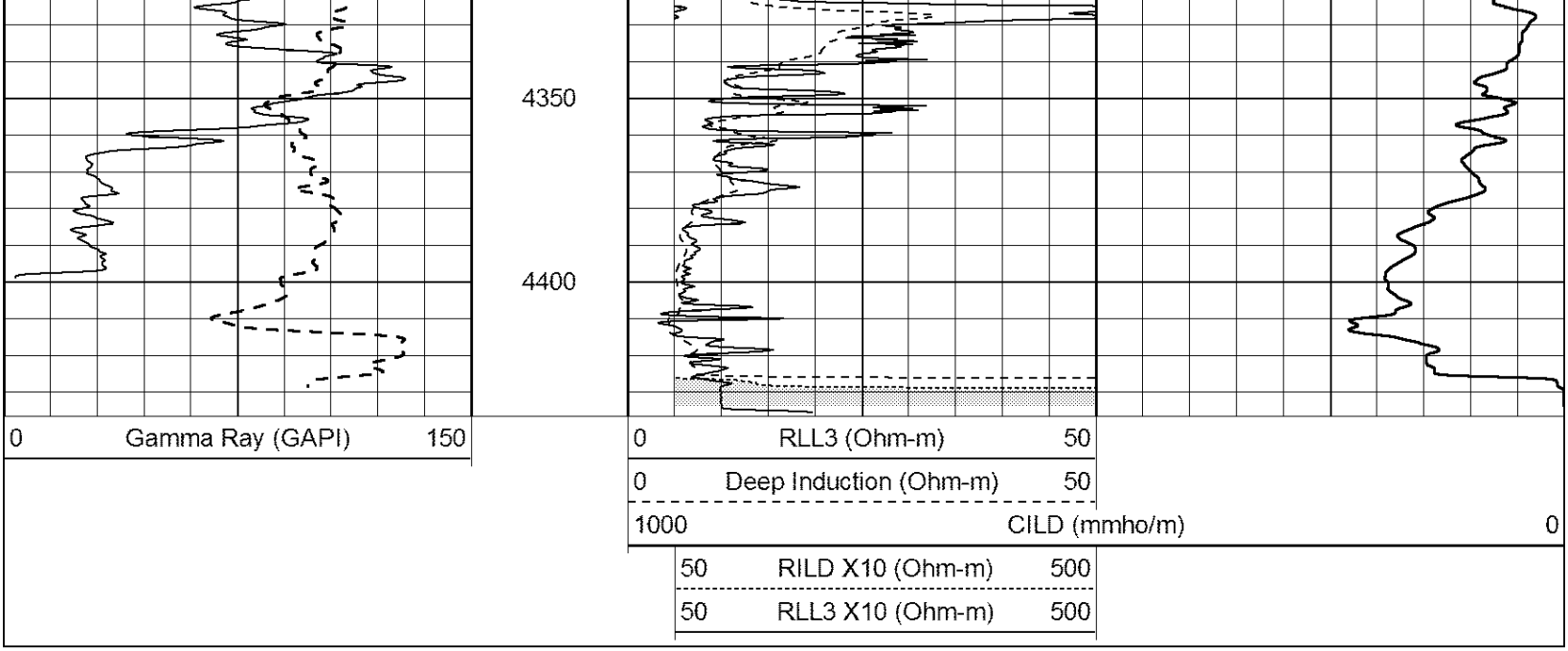
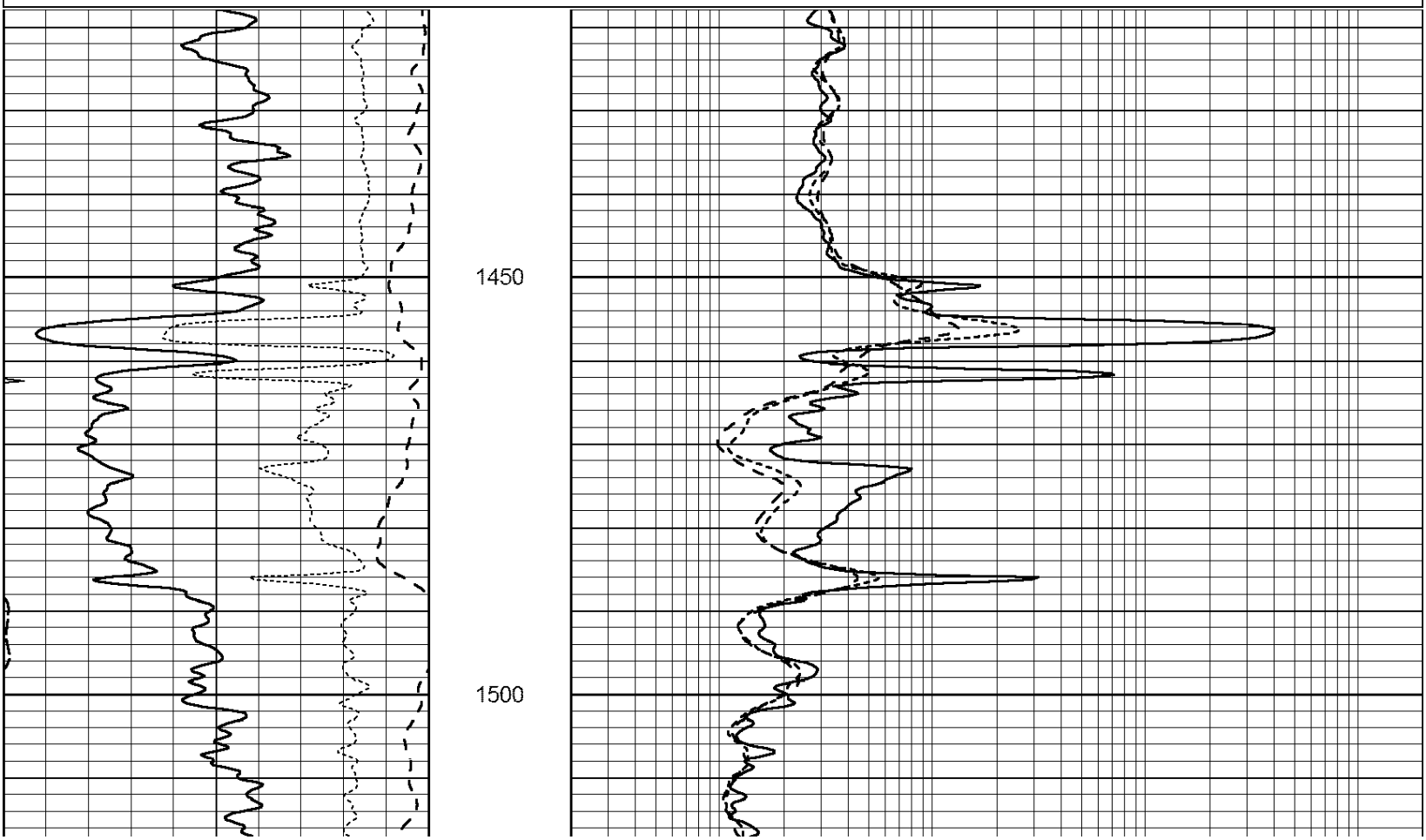


Database File: 2409ddn.db
Dataset Pathname: pass3.2
Presentation Format: _dil
Dataset Creation: Sat Jul 19 03:15:25 2014 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

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
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-250	RxoRt	50
0	MINMK	20

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Charted by: Depth in Feet scaled 1:240

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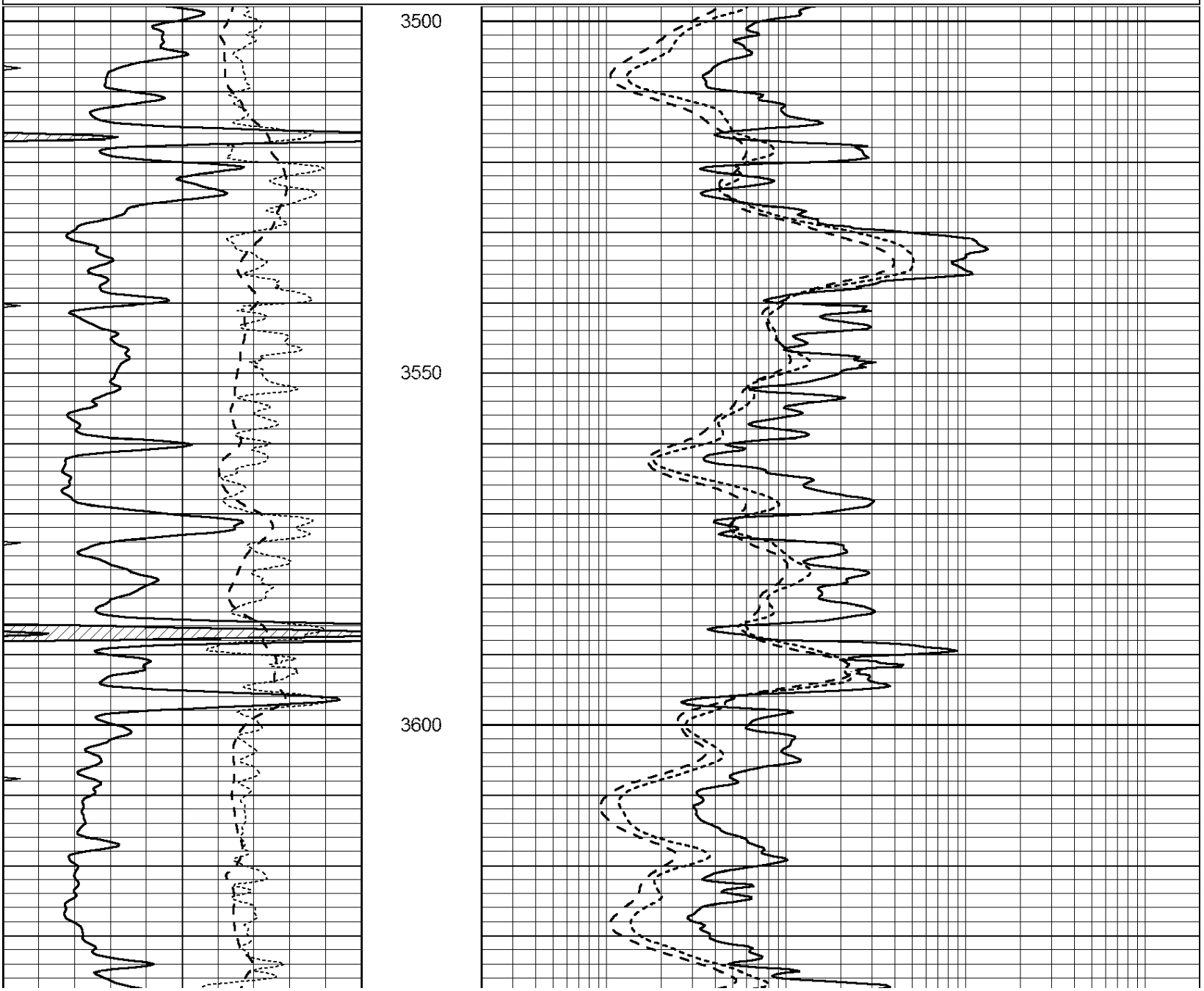
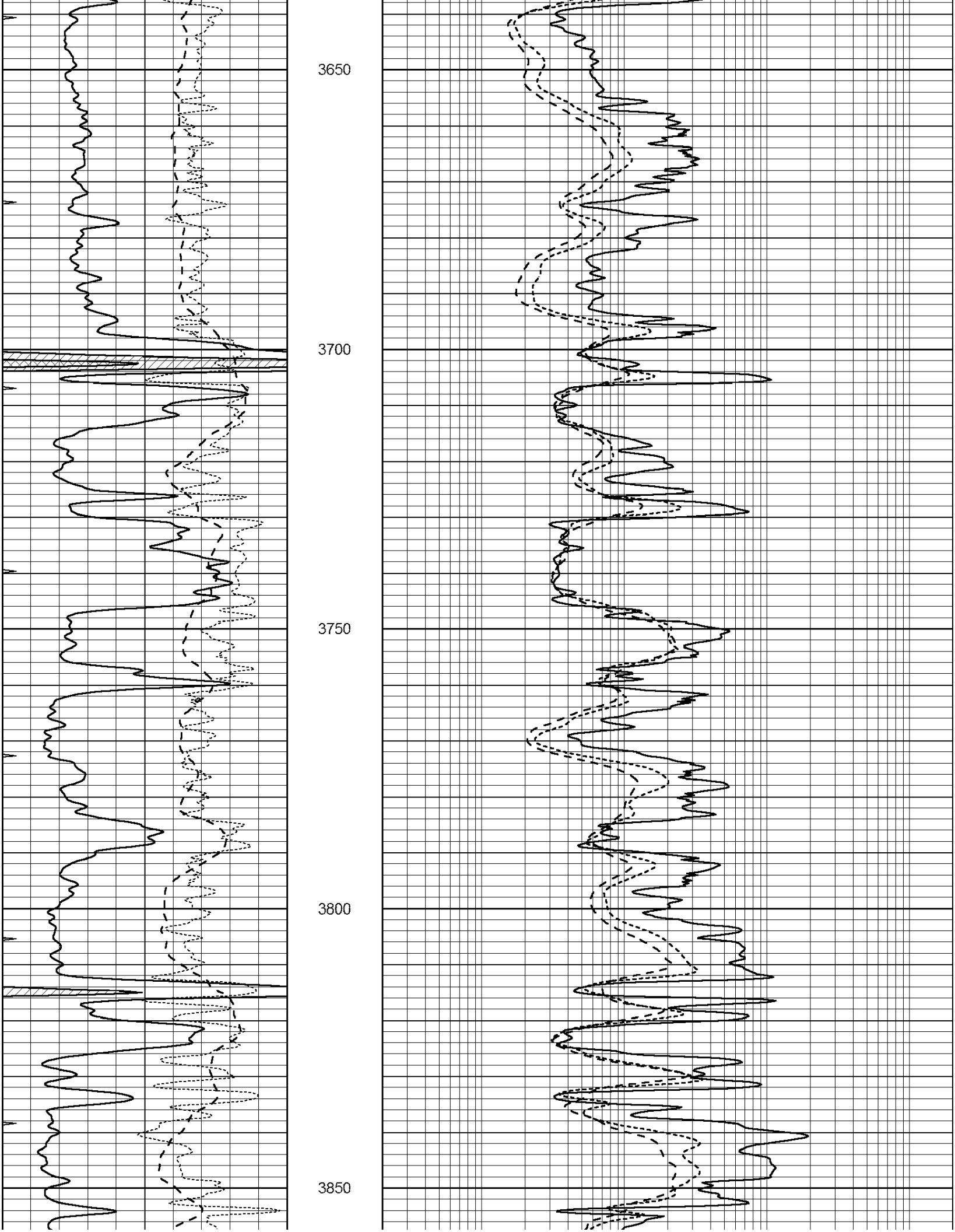
-250	RxoRt	50
0	MINMK	20

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

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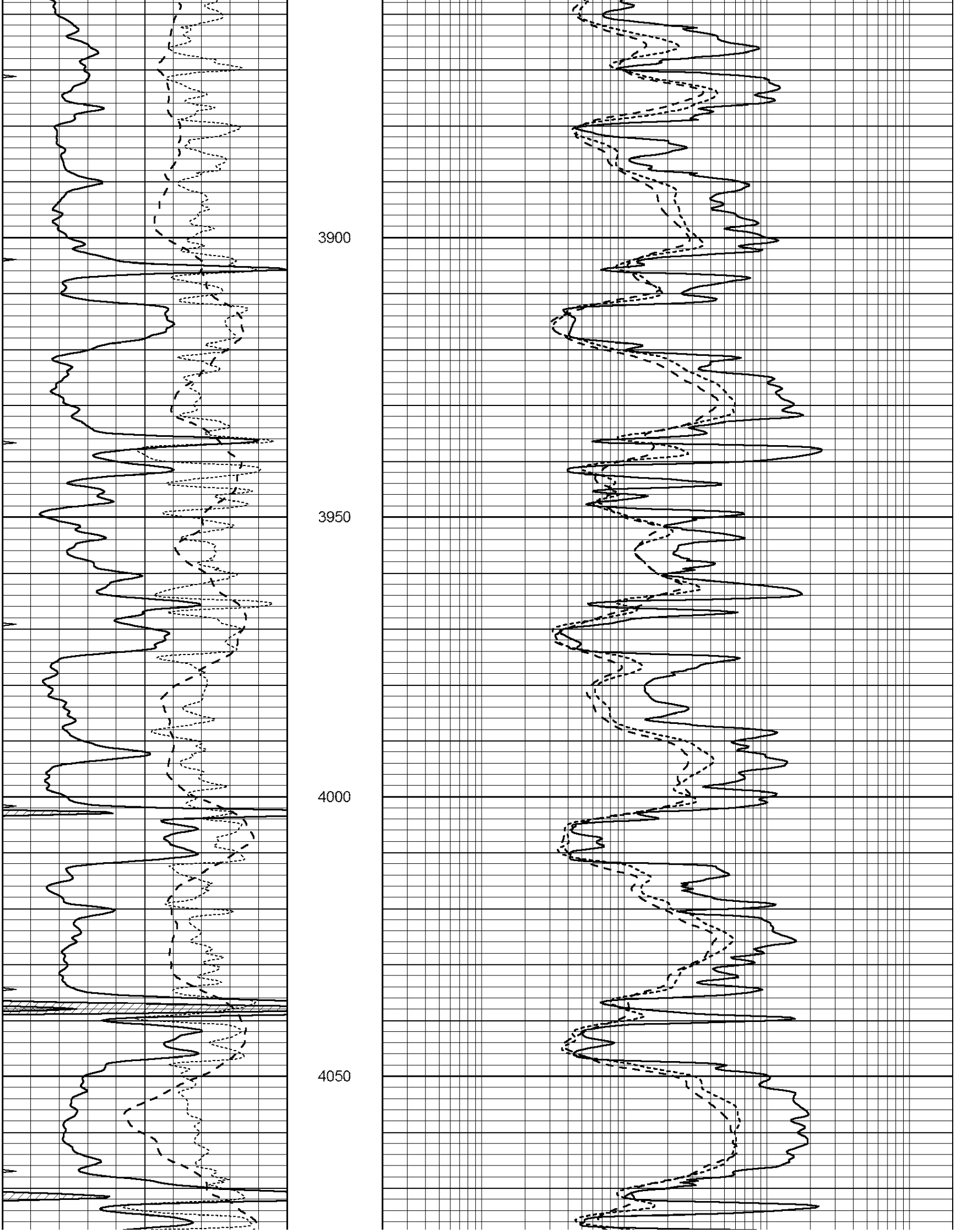
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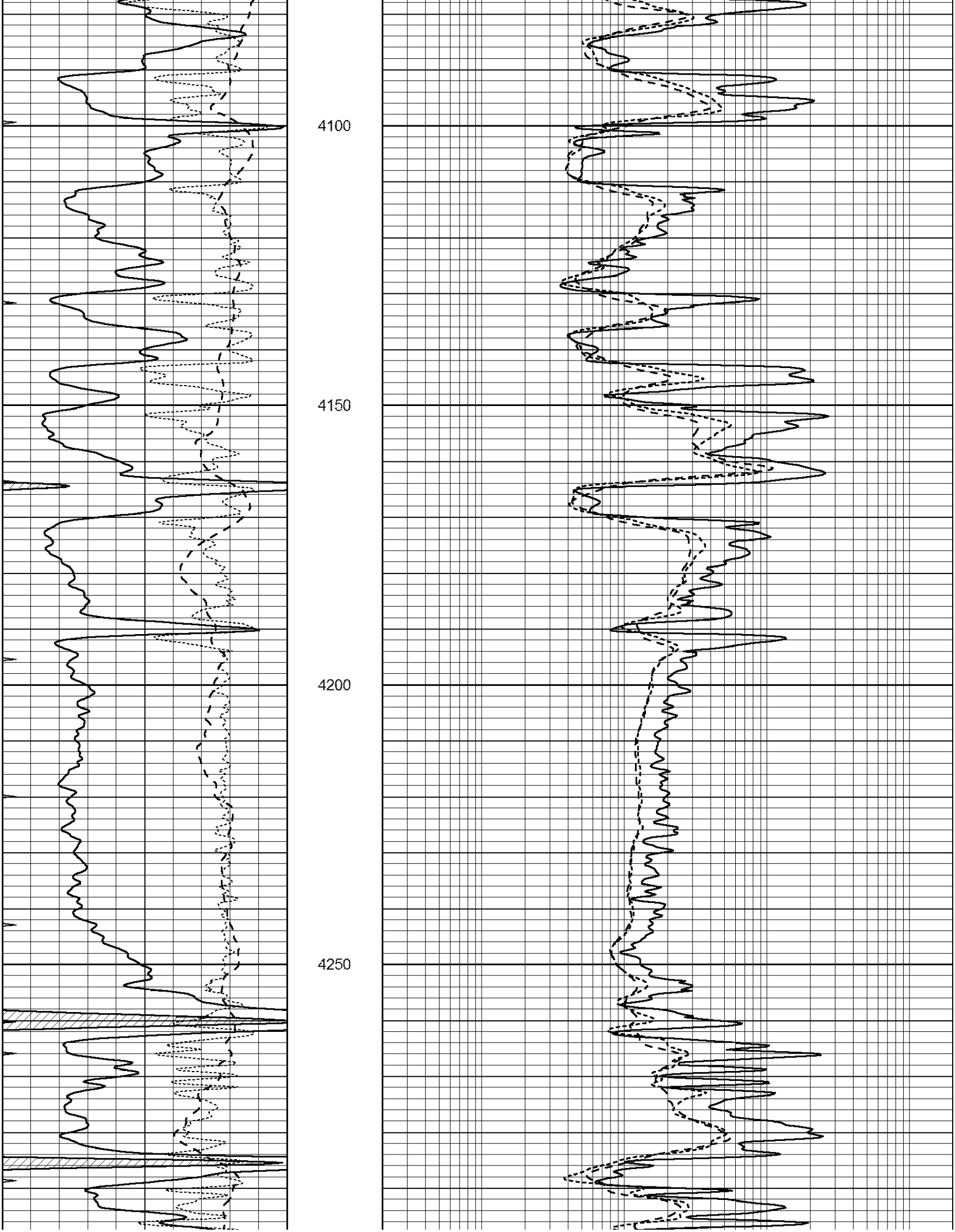
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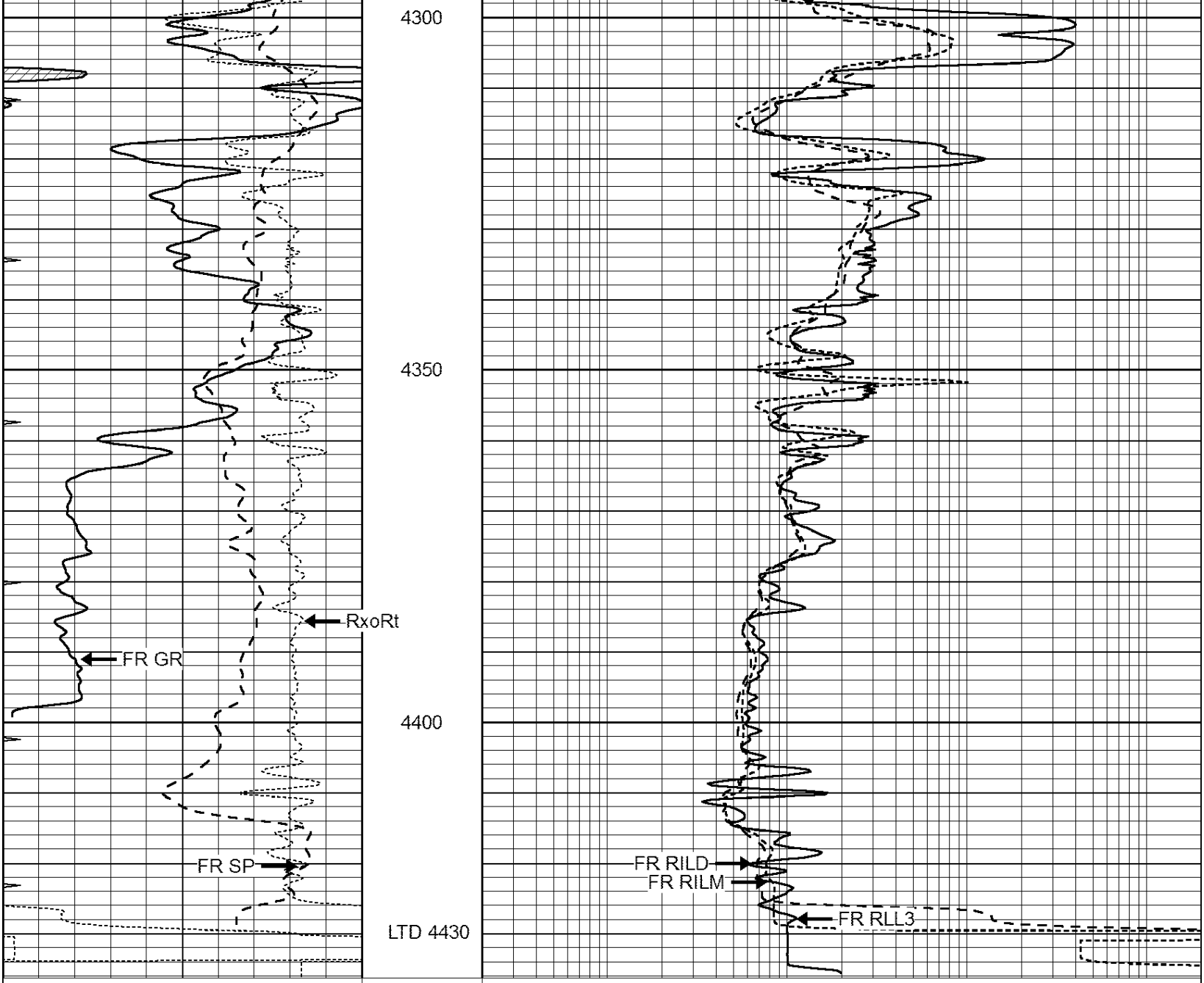

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

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

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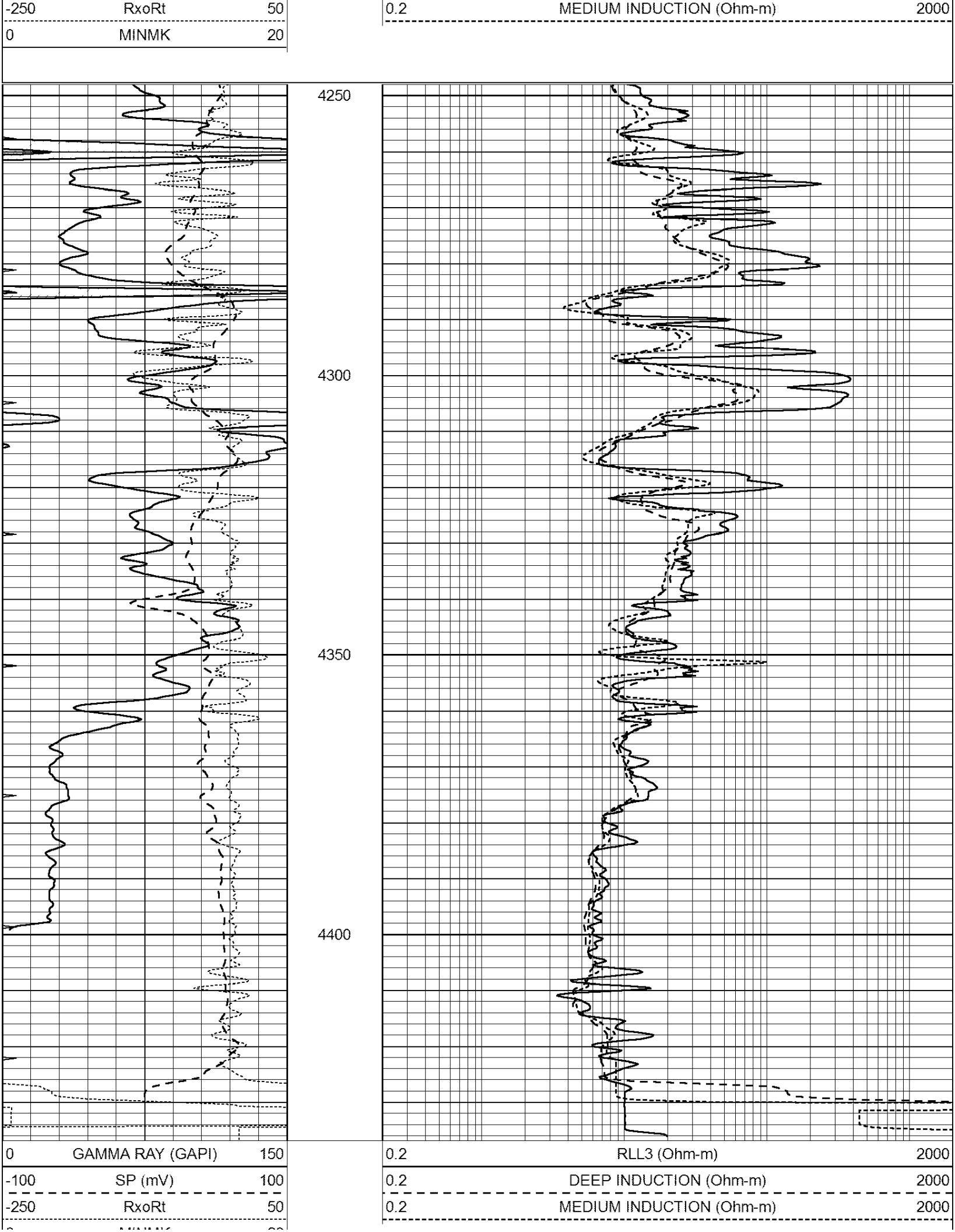
REPEAT SECTION

Database File: 2409ddn.db
Dataset Pathname: pass2.1.1
Presentation Format: _dil
Dataset Creation: Sat Jul 19 01:11:50 2014 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100

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


-250 RxoRt 50
0 MINMK 20
0.2 MEDIUM INDUCTION (Ohm-m) 2000
4250
4300
4350
4400
0 GAMMA RAY (GAPI) 150
-100 SP (mV) 100
0.2 RLL3 (Ohm-m) 2000
0.2 DEEP INDUCTION (Ohm-m) 2000
-250 RxoRt 50
0.2 MEDIUM INDUCTION (Ohm-m) 2000

0	MINMK	20

Calibration Report

Database File: 2409ddn.db
Dataset Pathname: pass3.2
Dataset Creation: Sat Jul 19 03:15:25 2014 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Thu Aug 29 12:01:20 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	500.000	20.000
Medium	0.992	1.002	V	0.000	464.000	mmho/m	520.000	-24.000
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		

Compensated Density Calibration Report

Serial-Model:	GEAR5-GEARHART
Source / Verifier:	147 / 147
Master Calibration Performed:	Fri Jul 04 19:27:51 2014
Before Survey Verification Performed:	
After Survey Verification Performed:	

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	943.83	576.01	cps
Aluminum	2.590	g/cc	212.01	399.19	cps

Spine Angle = 76.20

Density/Spine Ratio = 0.572

Size	Reading

	Size		Reading	
Small Ring	8.40	in	1.64	V
Large Ring	14.00	in	2.93	V

Before Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

After Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

Compensated Neutron Calibration Report

Serial Number: 080620
Tool Model: Probe

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		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number: 7
Tool Model: Probe1
Performed: Fri Jul 18 12:11:13 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.5000 GAPI/cps