SUPERIOR WELL SERVICES

SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company WILDCAT OIL & GAS LLC
Well JOHNSON FARMS NO. 3
Field SPIVEY-GRABS-BASIL
County KINGMAN State KANSAS

Location: API # :
SE - SE - SE
330' FSL & 330' FEL
SEC 18 TWP 30S RGE 7W

Other Services
CNL/CDL

Permanent Datum GROUND LEVEL Elevation 1517
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1527
D.F. 1525
G.L. 1517

Company
Well JOHNSON FARMS NO. 3
Field SPIVEY-GRABS-BASIL
County KINGMAN
State KANSAS

Date	12-11-2012		
Run Number	ONE		
Depth Driller	4348		
Depth Logger	4350		
Bottom Logged Interval	4348		
Top Log Interval	0		
Casing Driller	219		
Casing Logger	218		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 41		
pH / Fluid Loss	10.5 / 9.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.8 @70 F		
Rmf @ Meas. Temp	.64 @ 70 F		
Rmc @ Meas. Temp	.96 @ 70 F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.47@ 119 F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	4:15 P.M.		
Maximum Recorded Temperature	119		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	MIKE GARRISON		
Witnessed By	MAX LOVELY		

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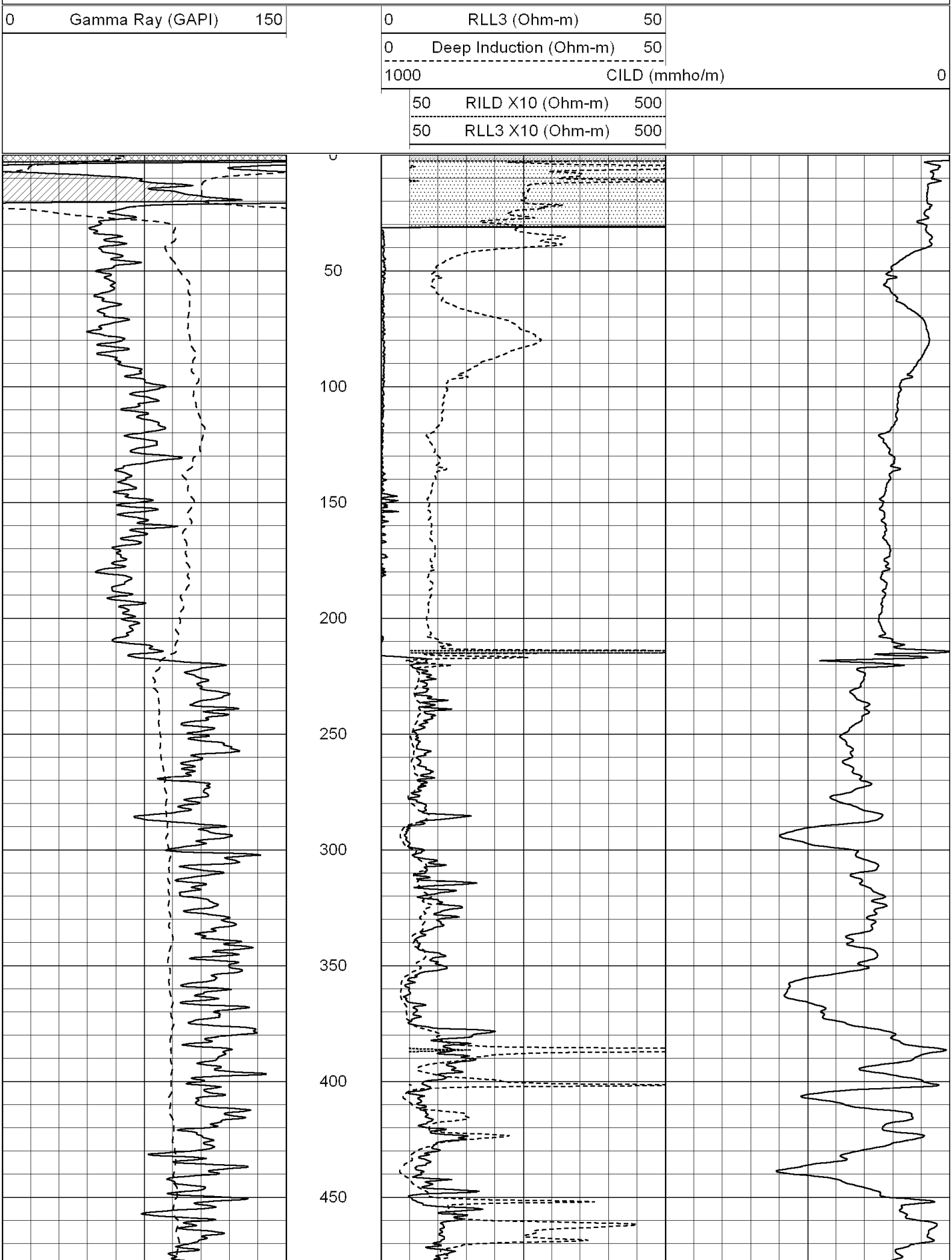
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

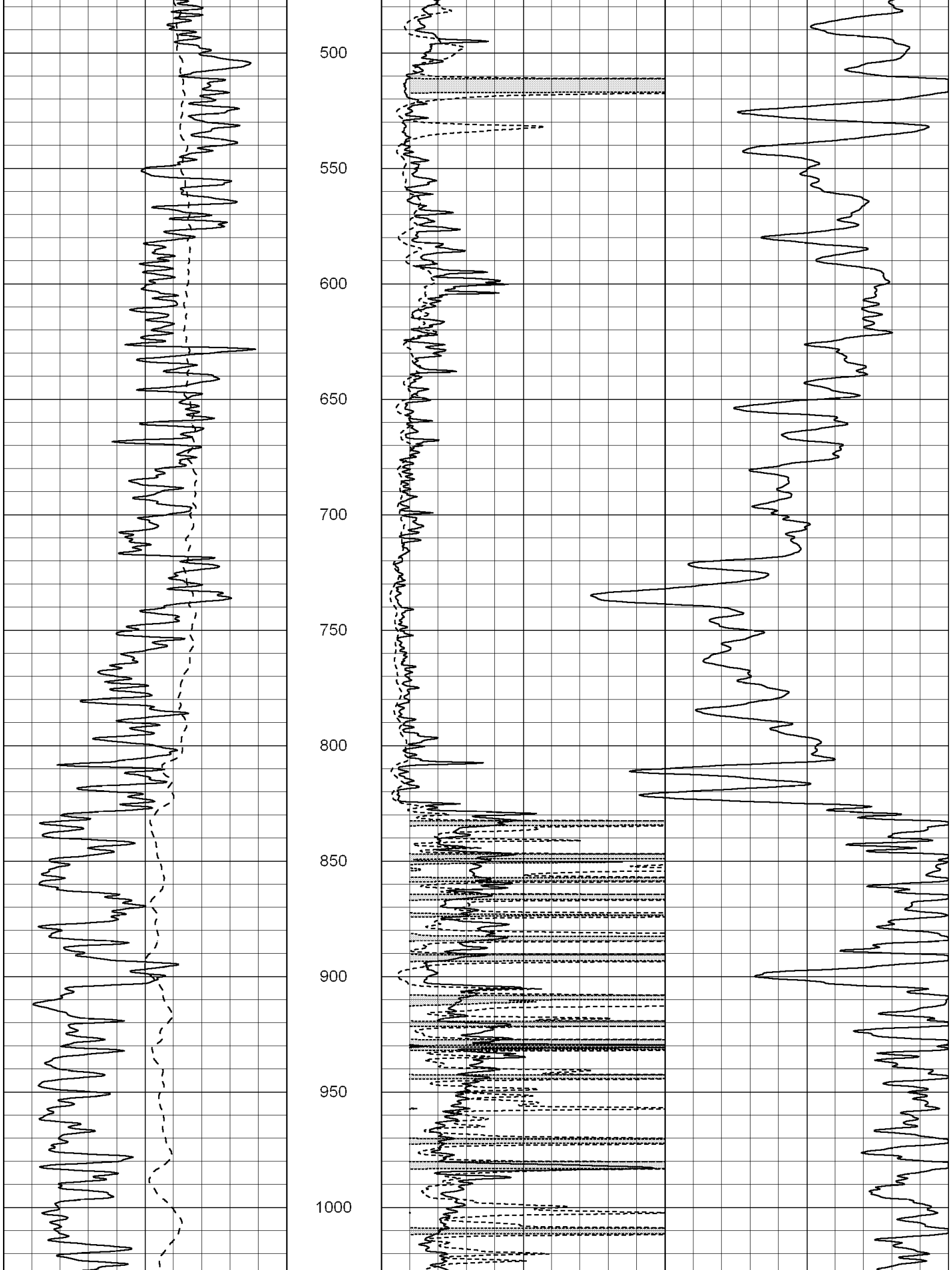
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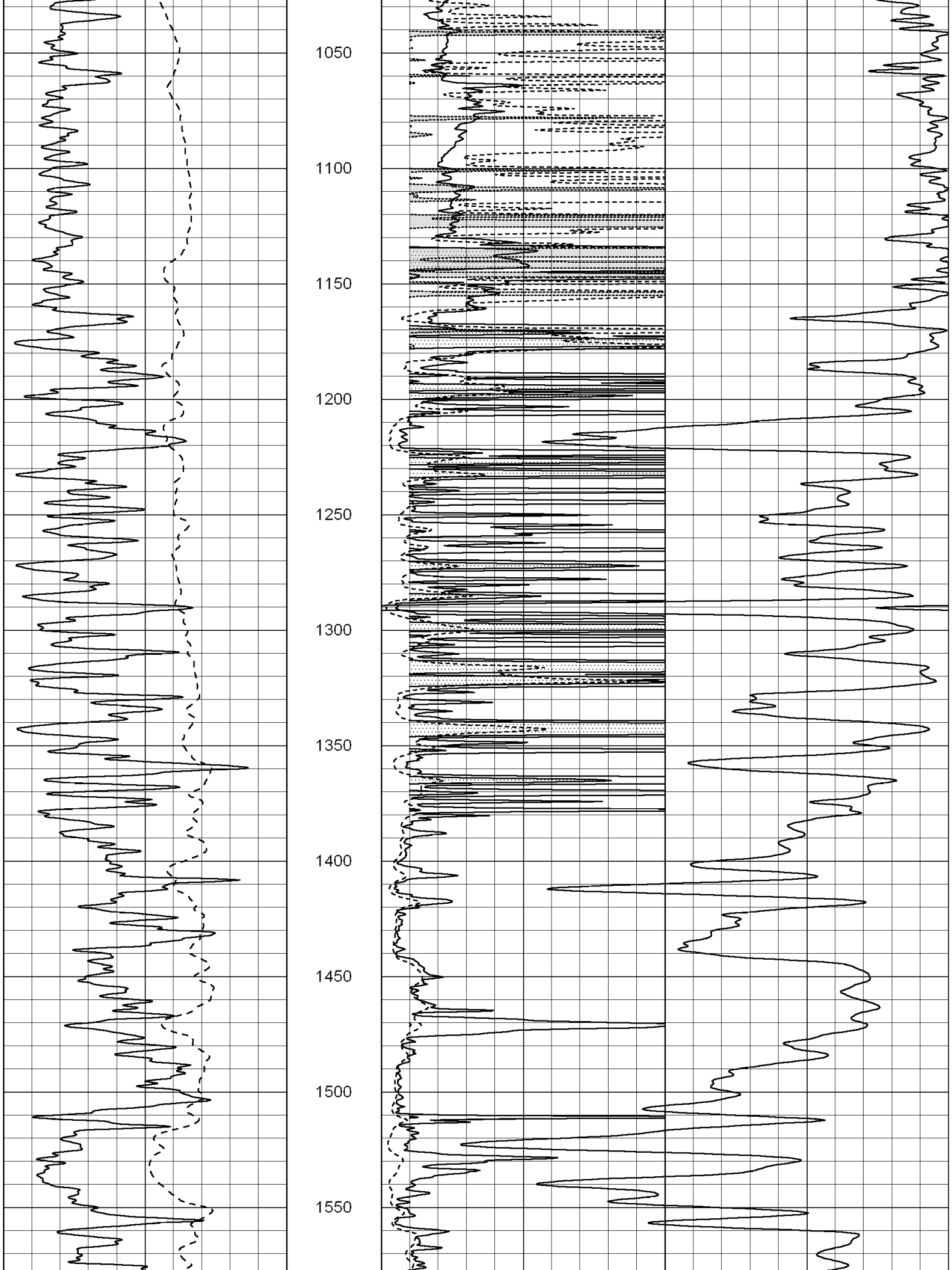
NABORS COMPLETION & PRODUCTION CO.
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS:RAGO, KS, 1 SOUTH TO 150 RD, 2 WEST, NORTH INTO

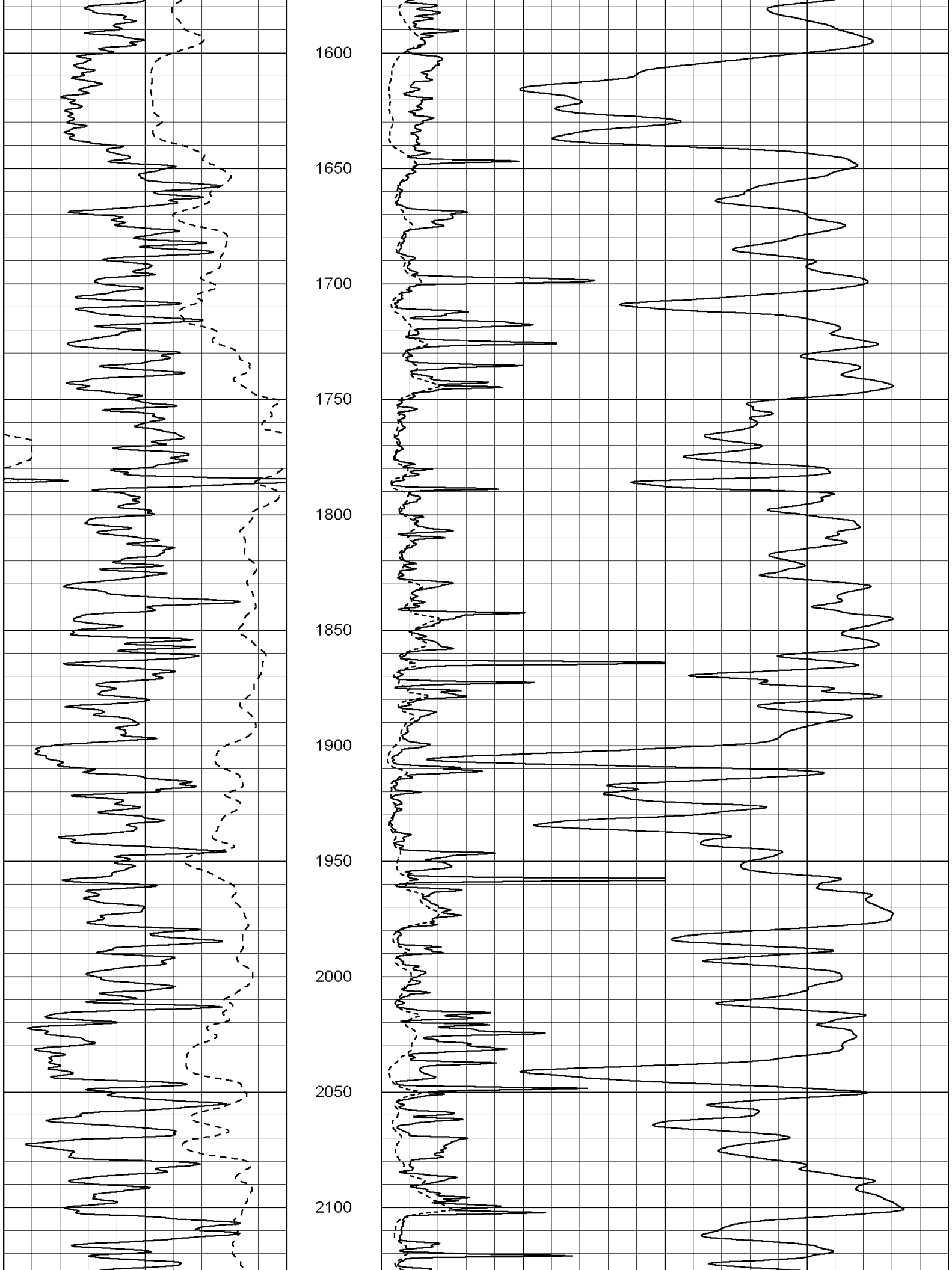
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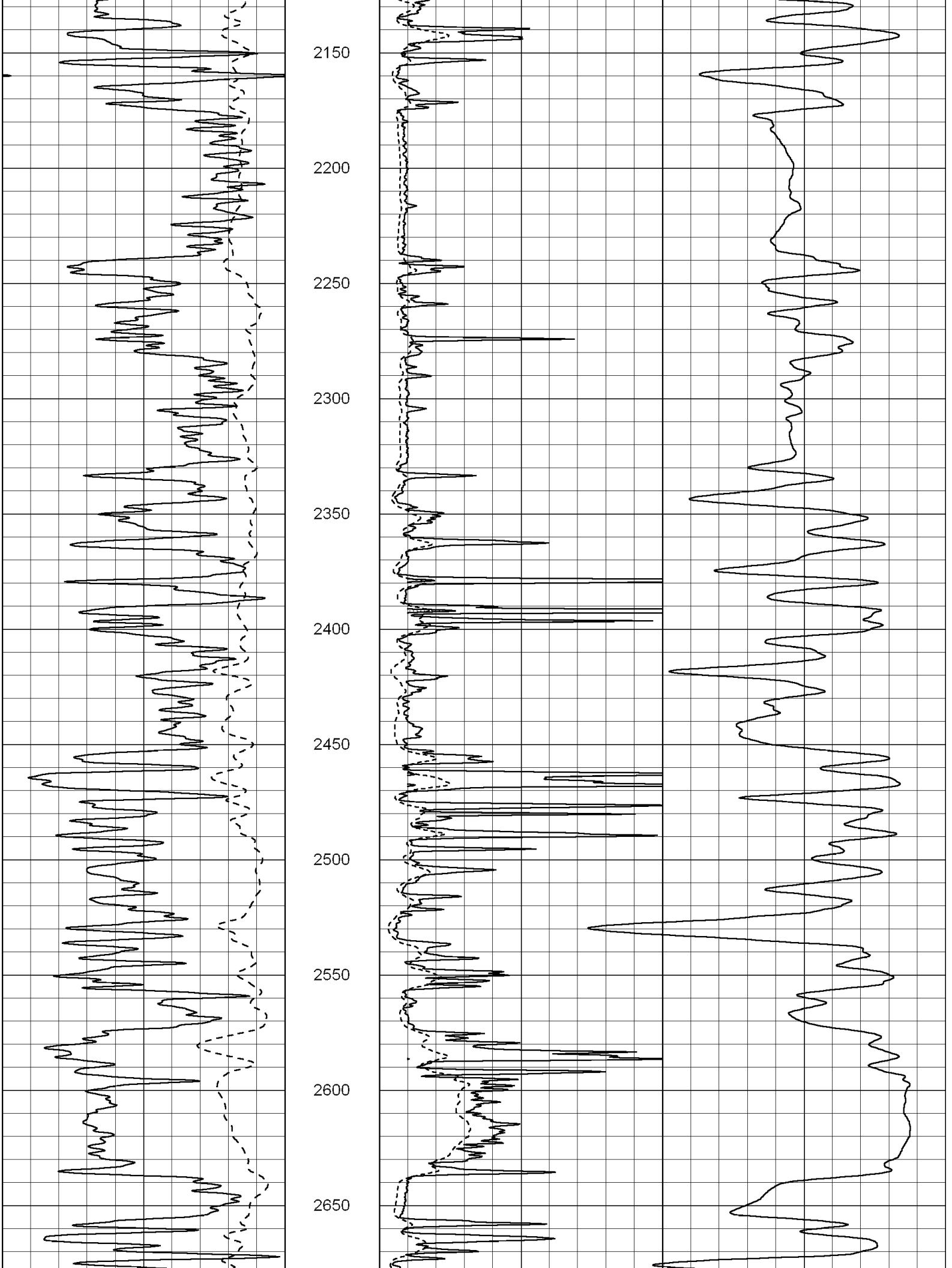
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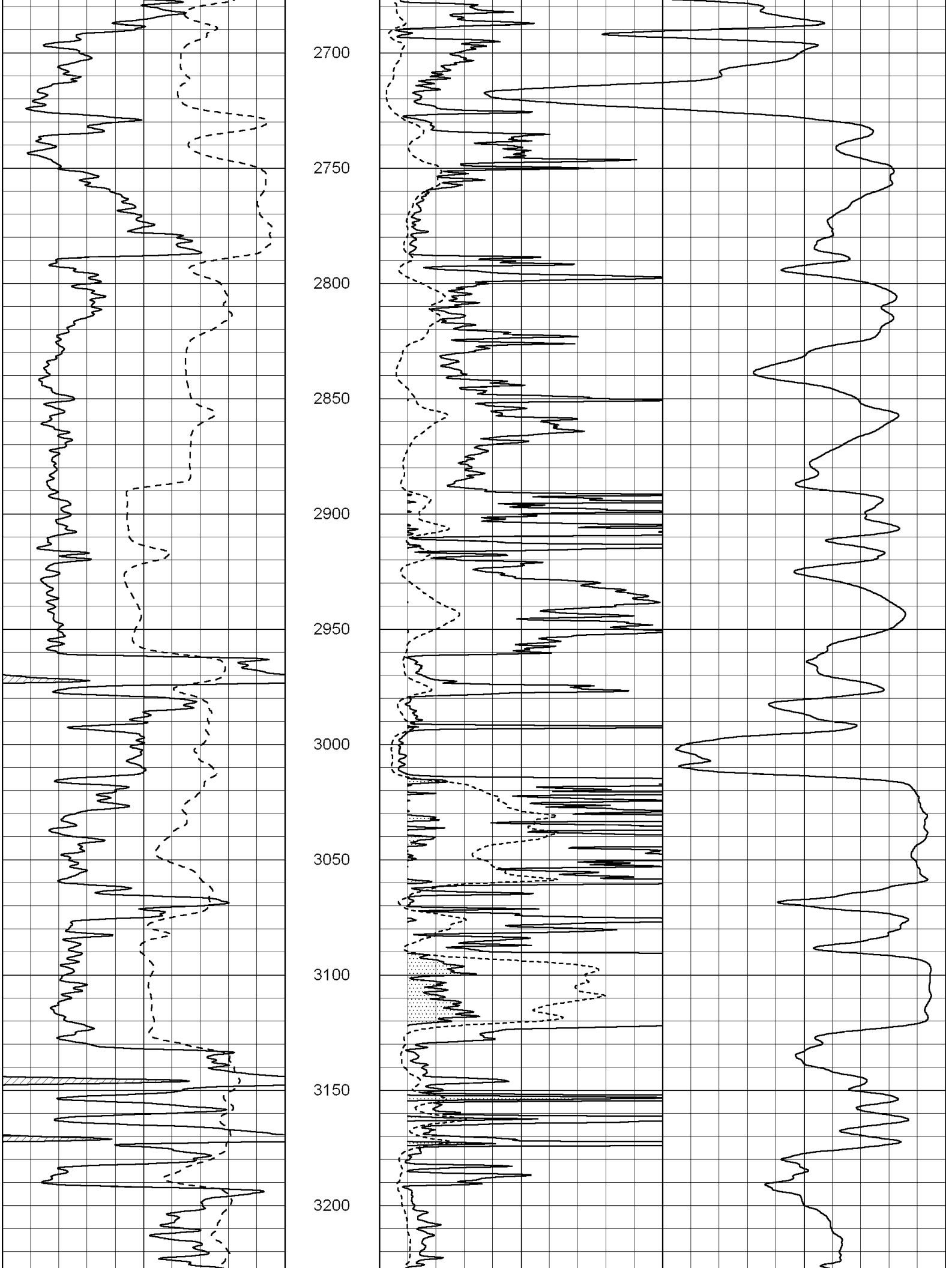


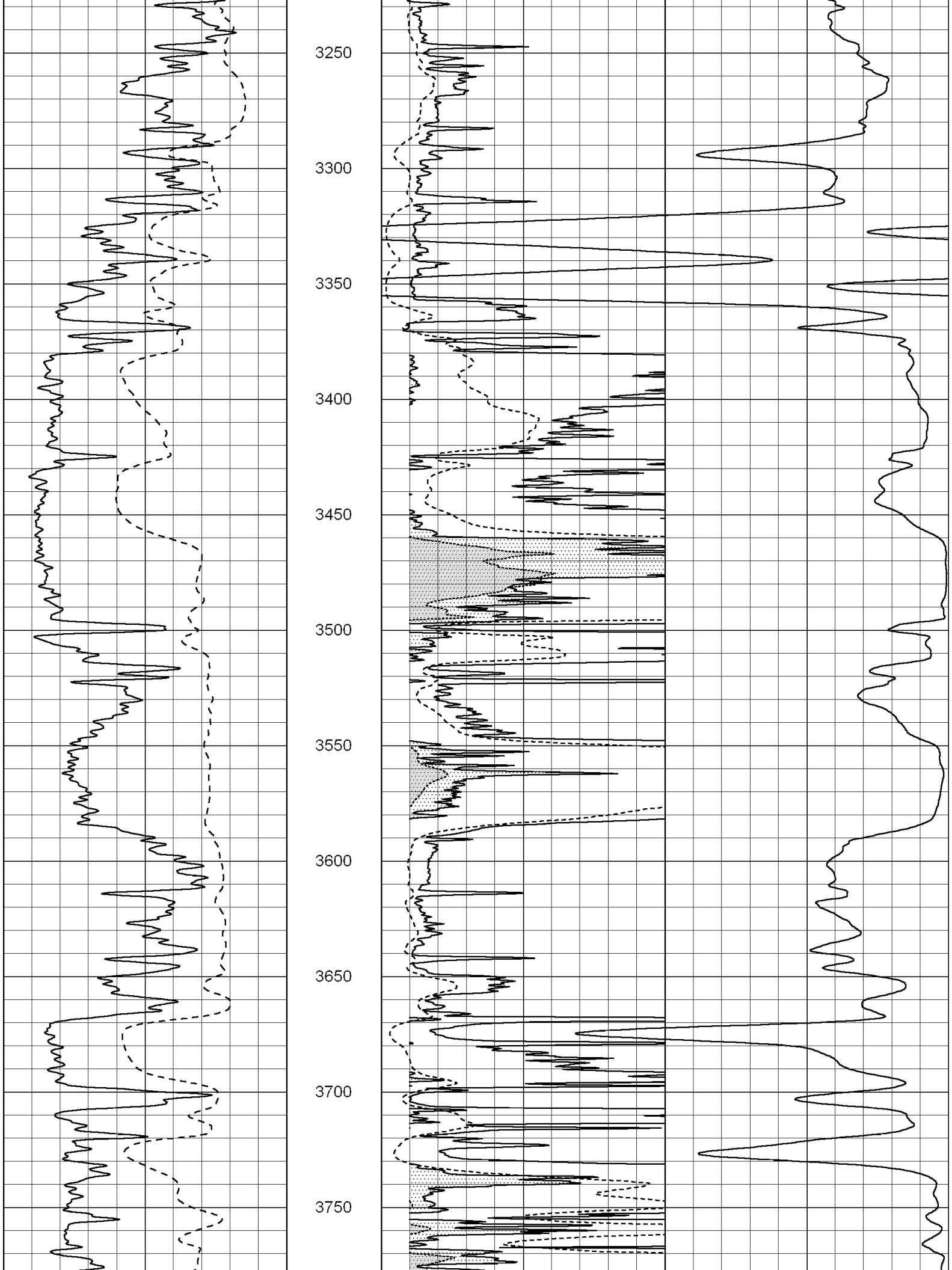

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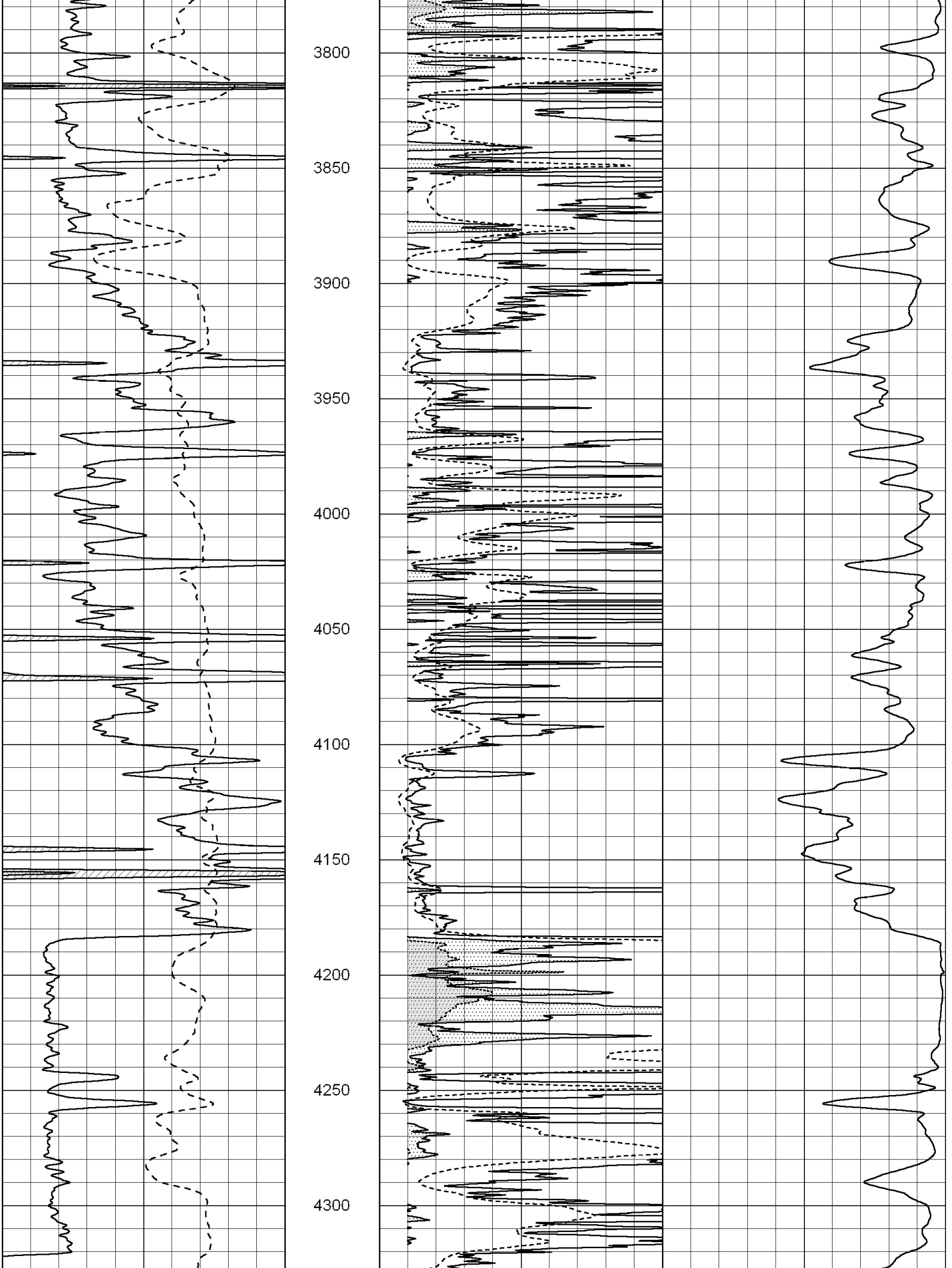

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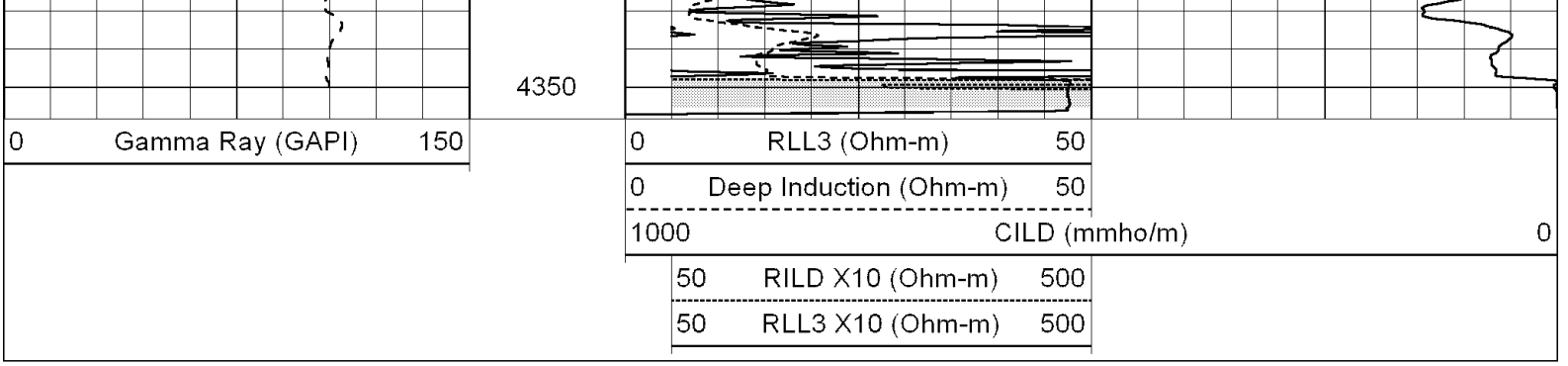

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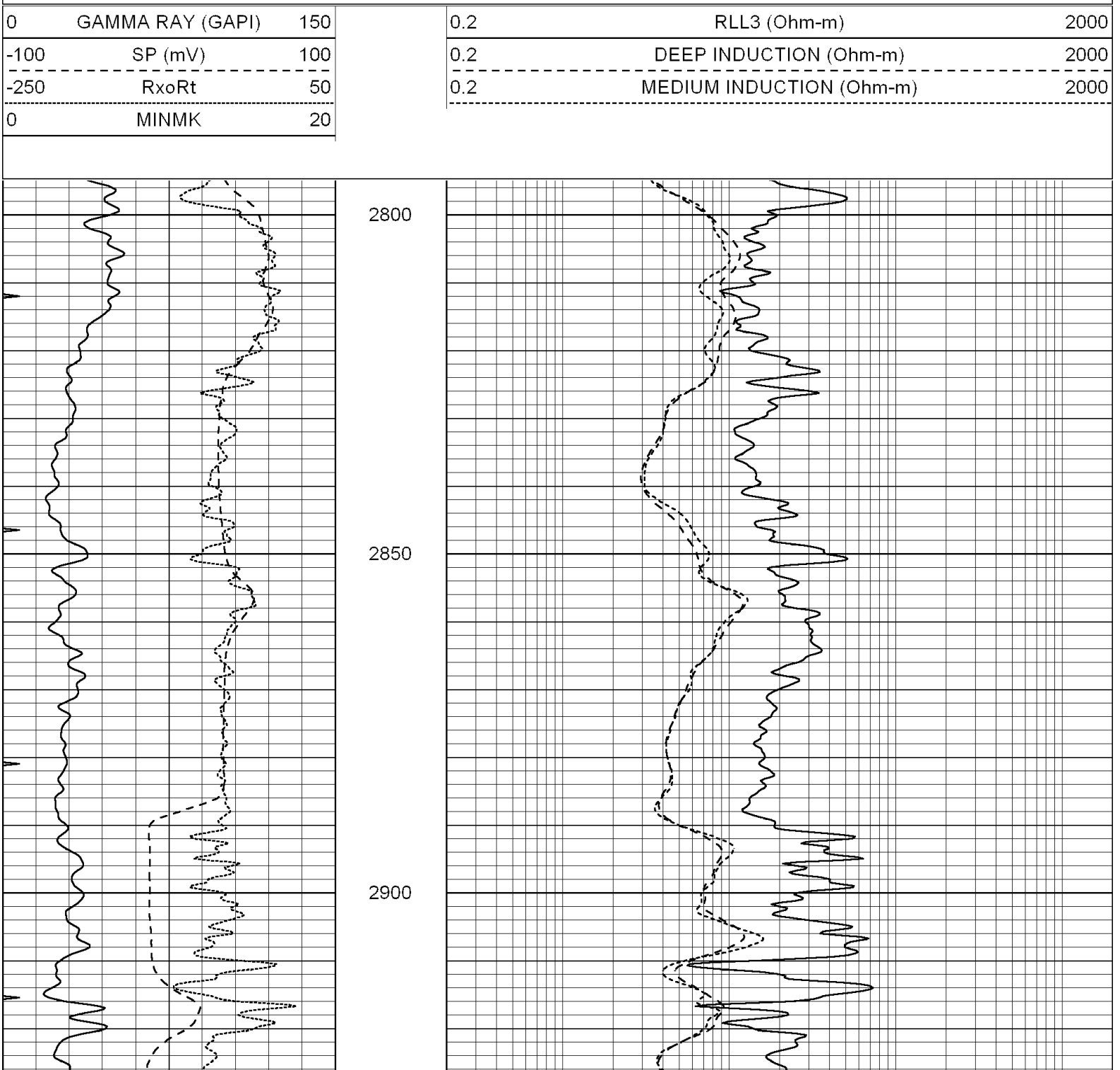

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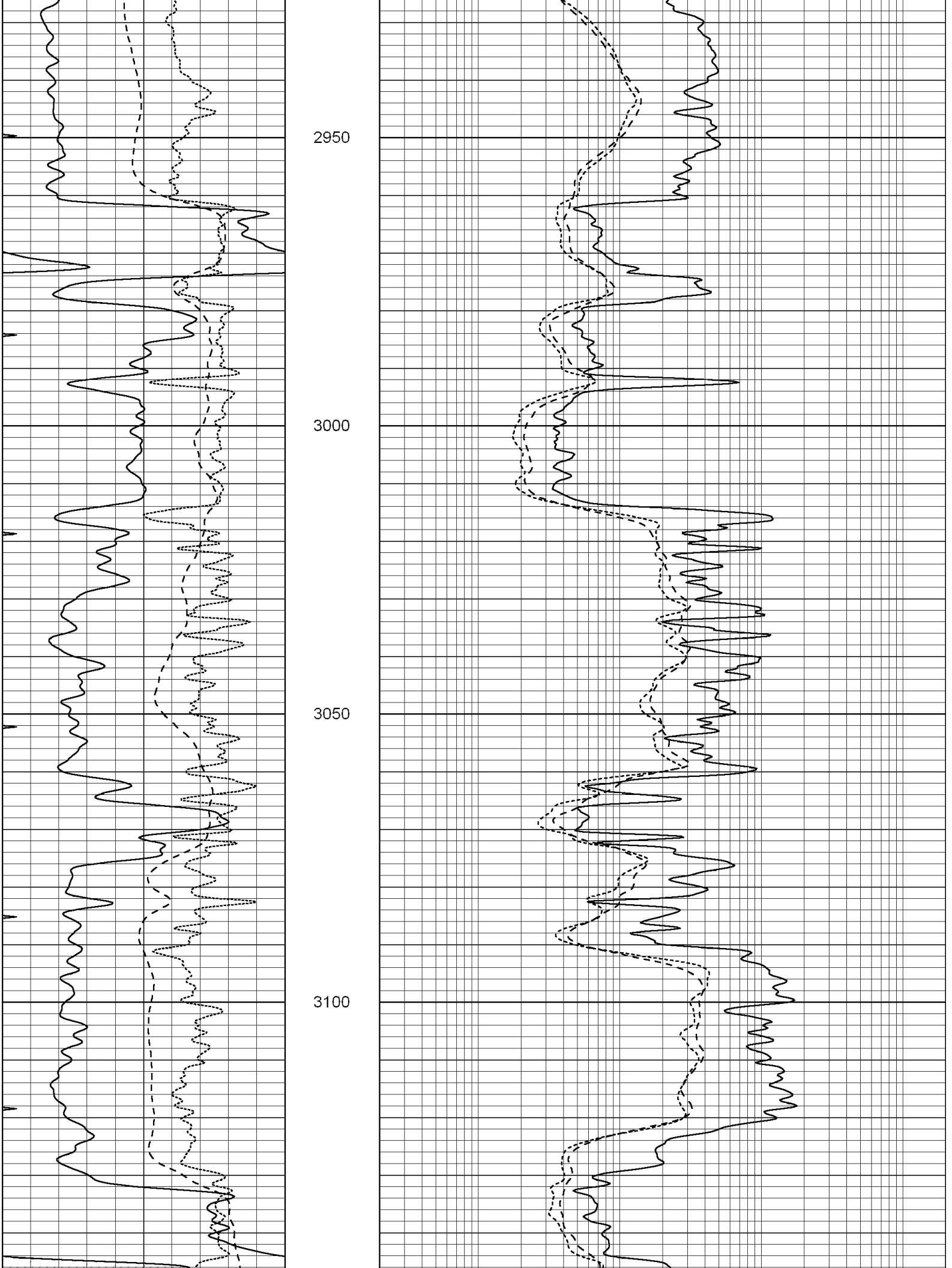

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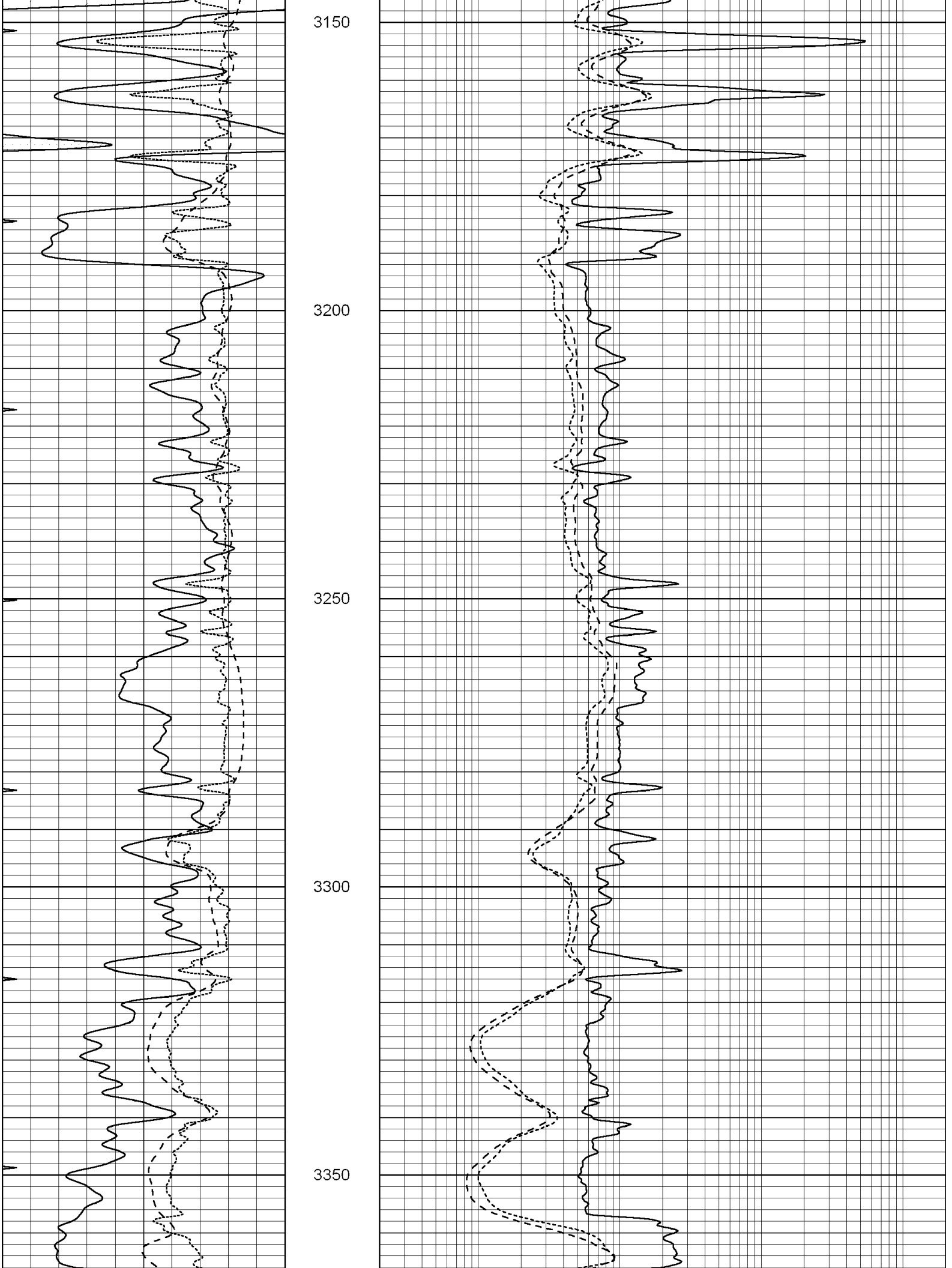

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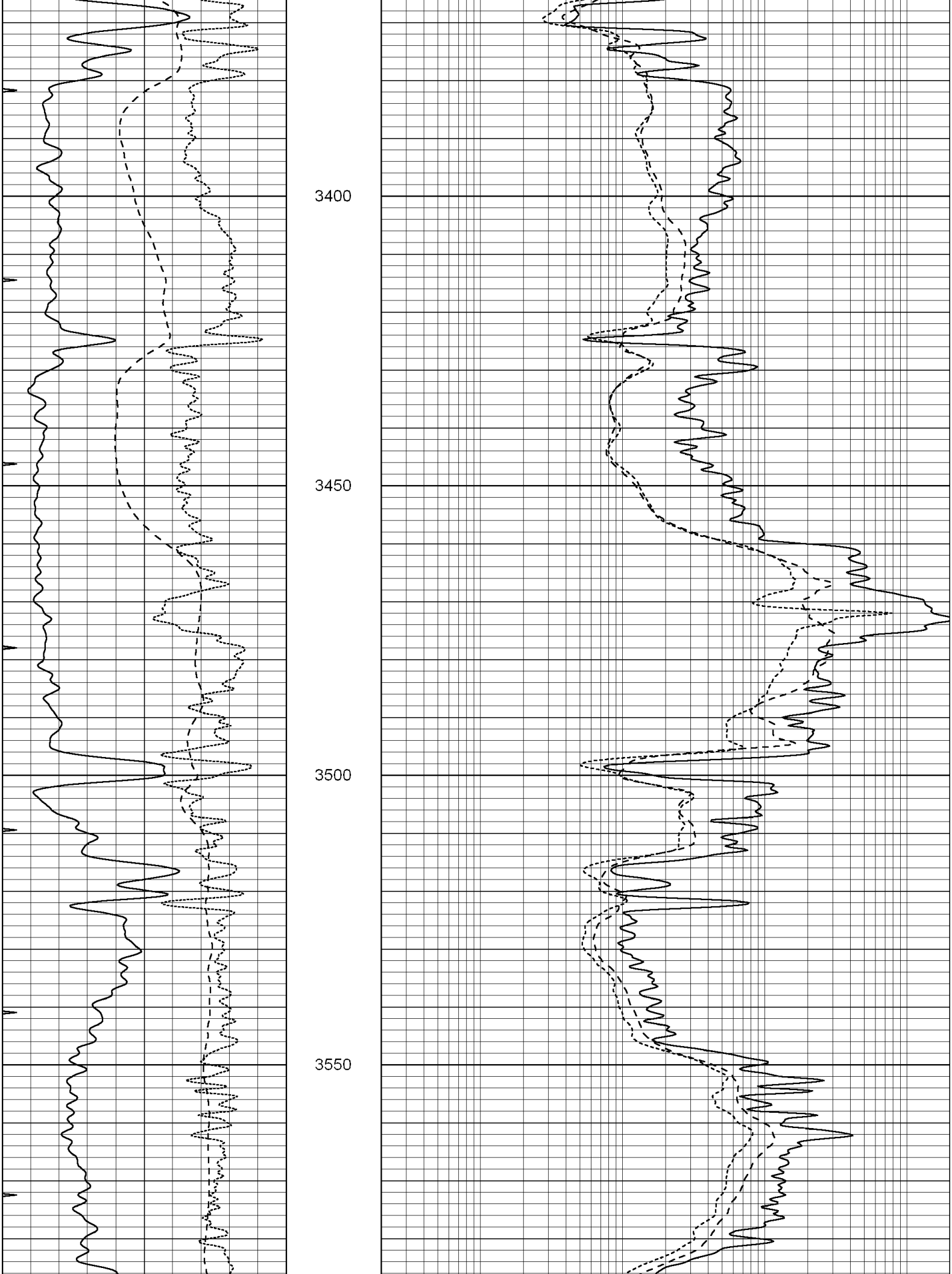


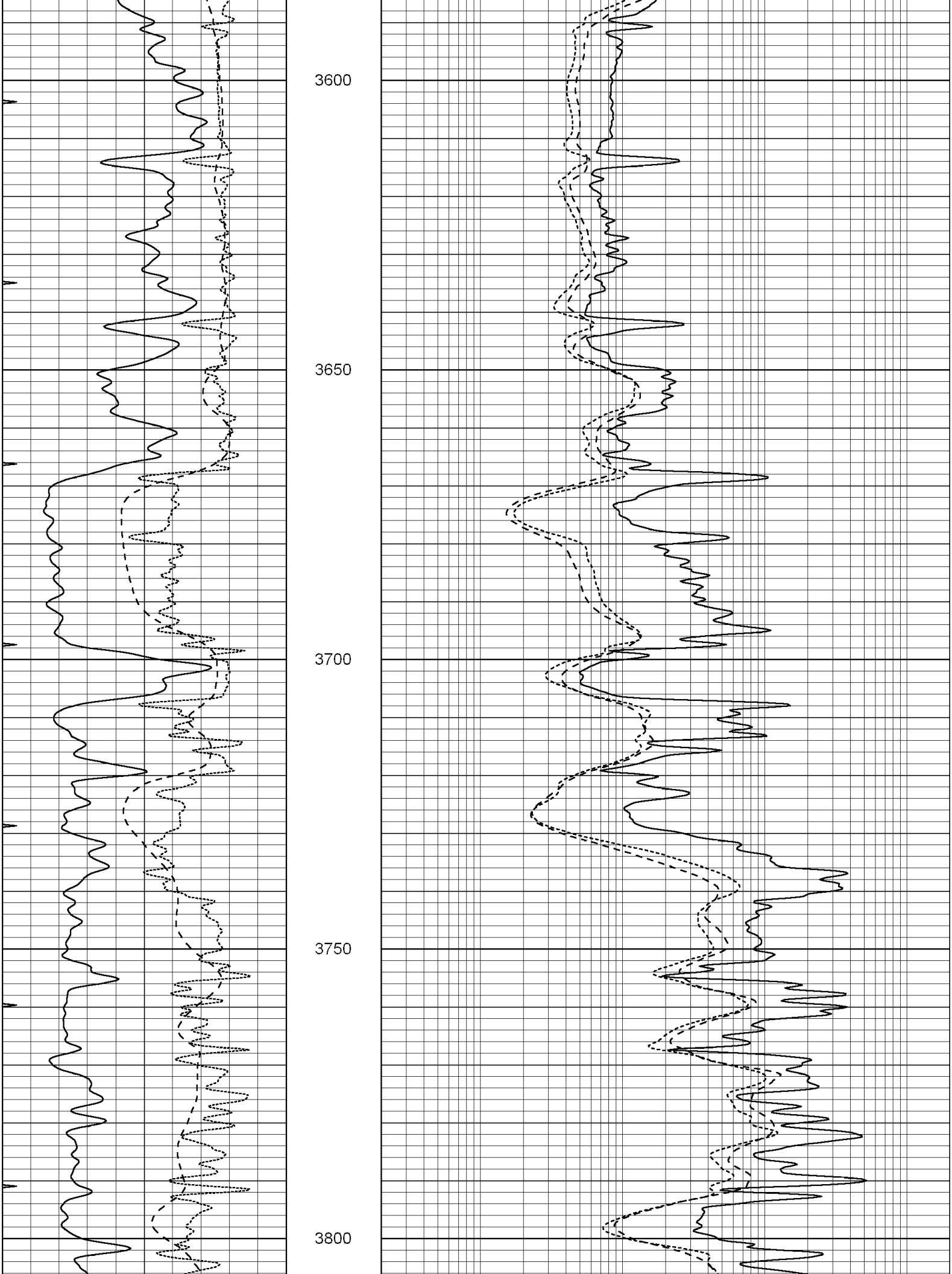
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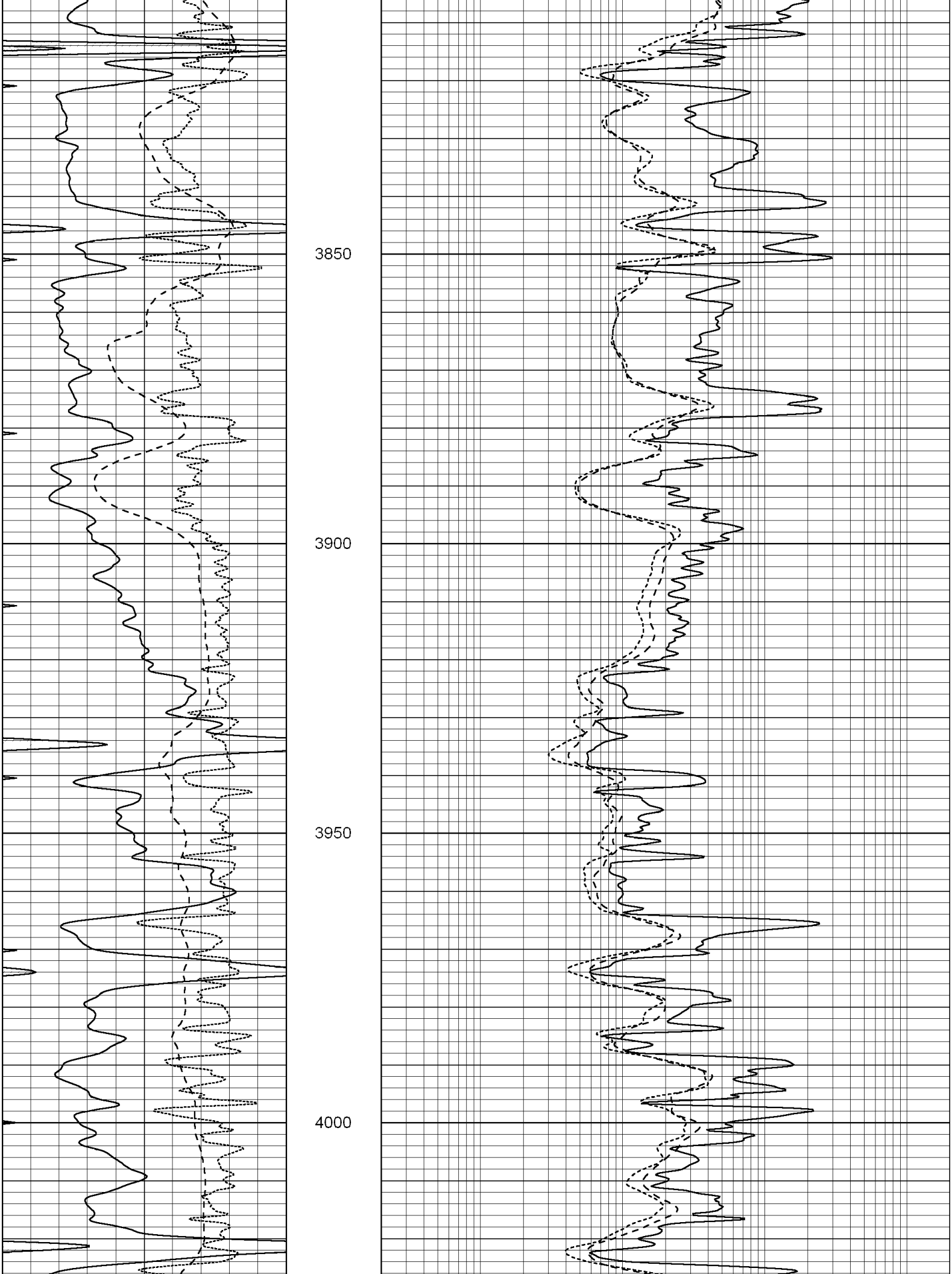


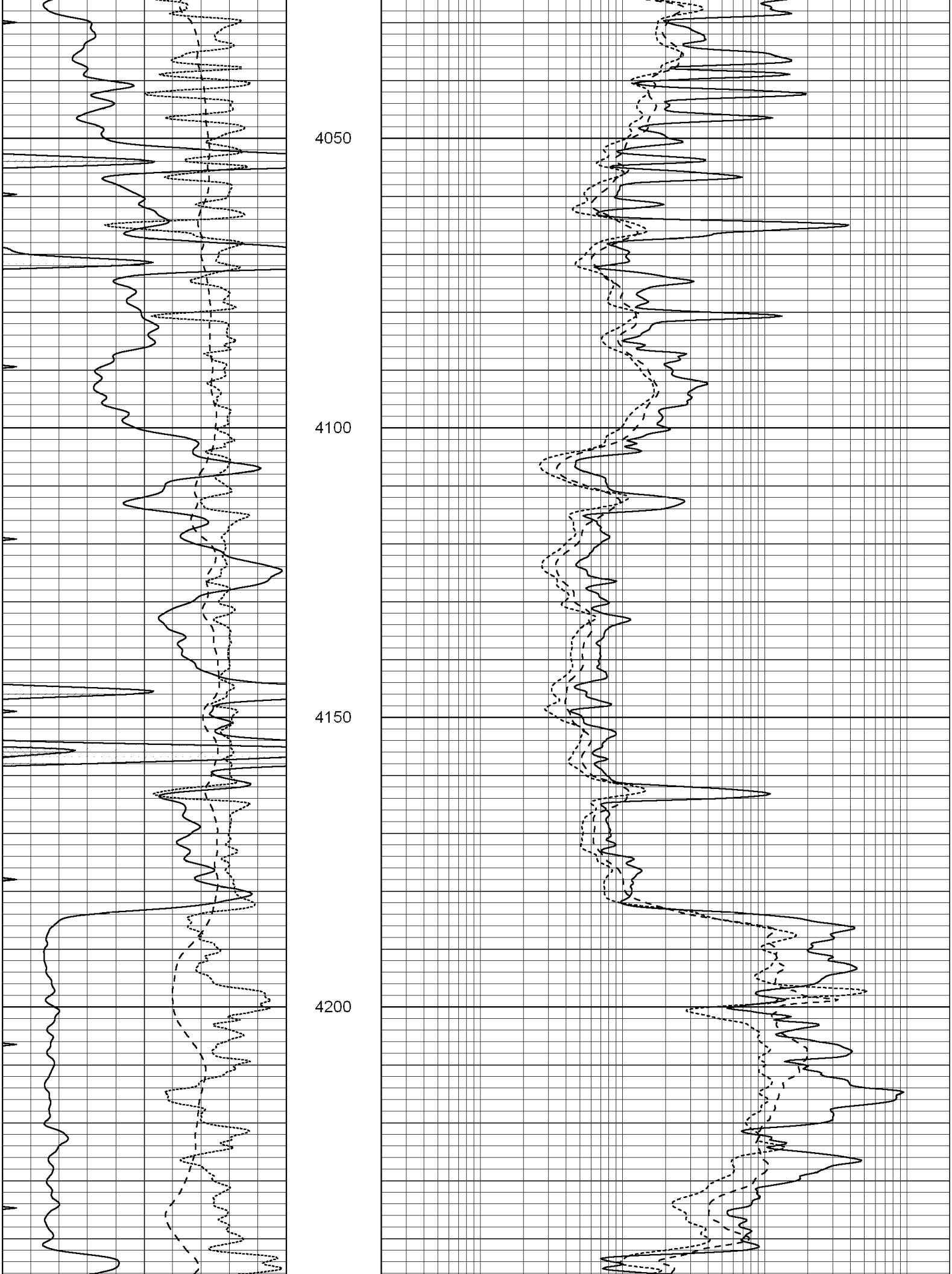

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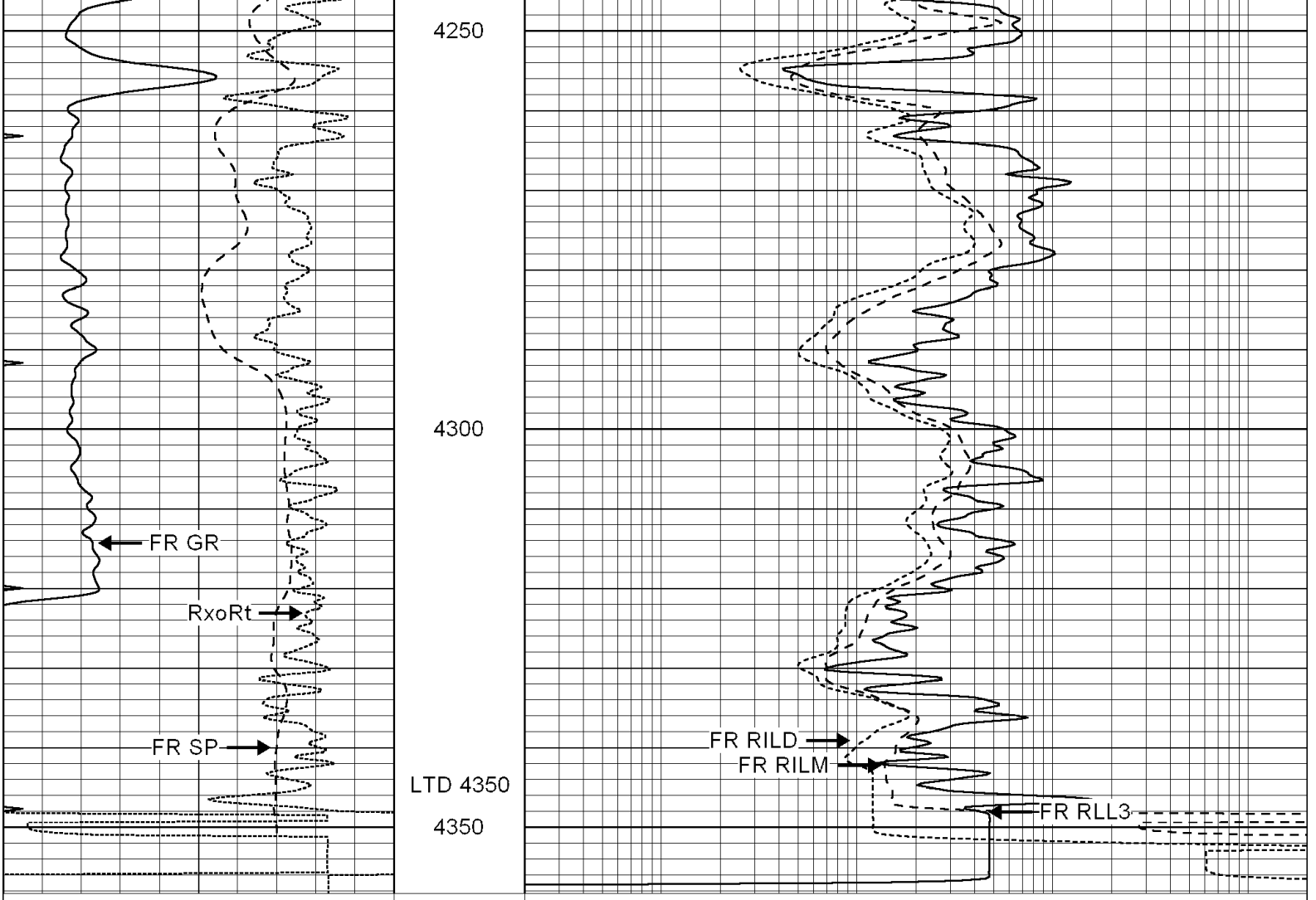

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4200



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

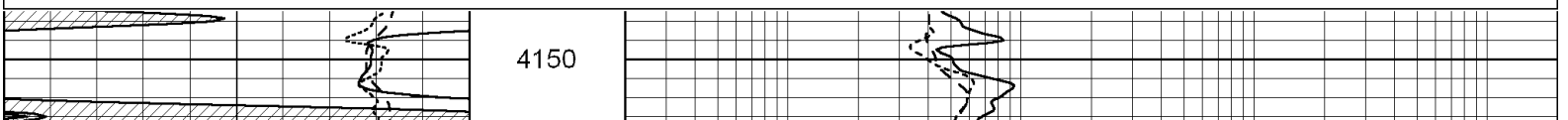
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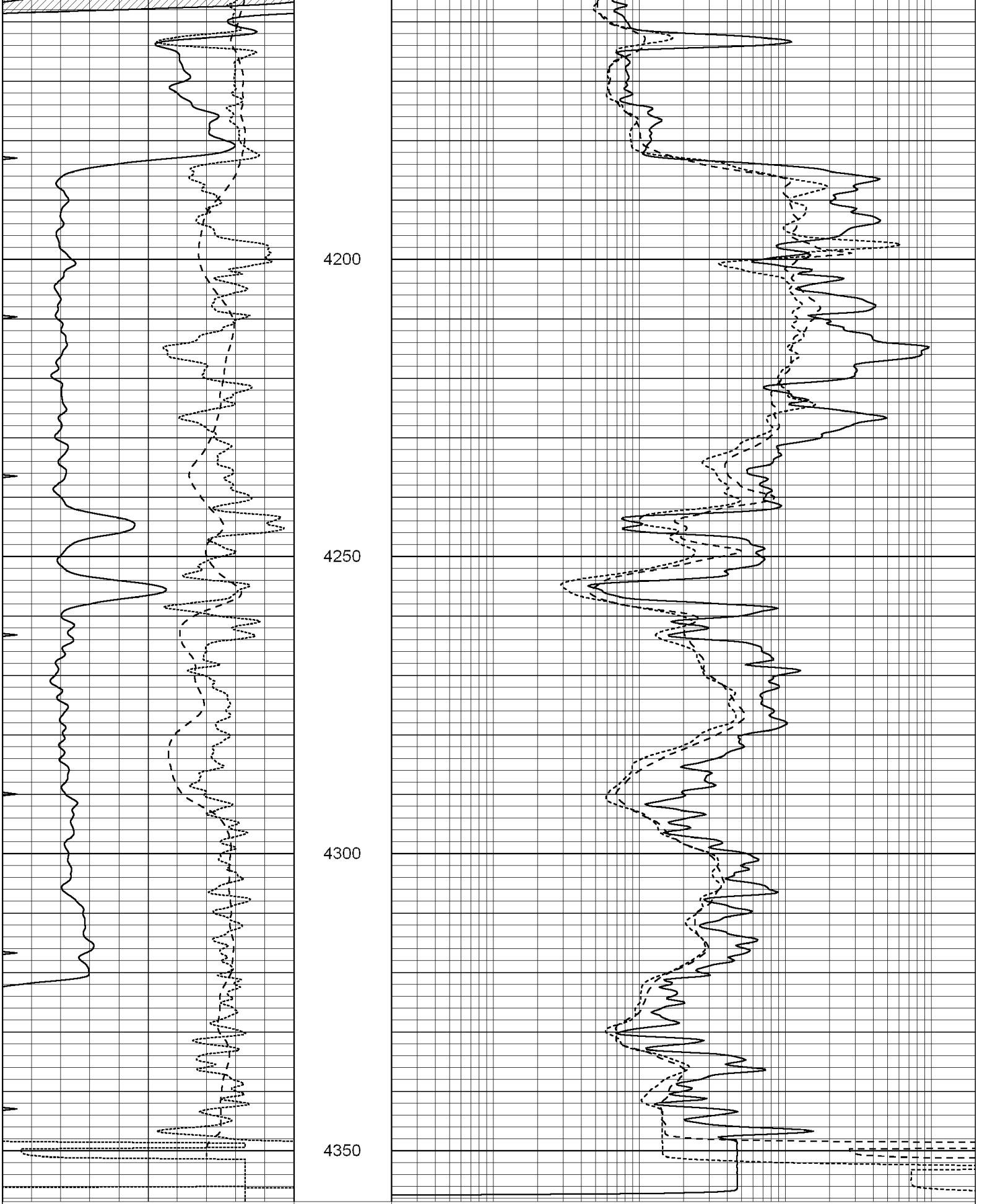
REPEAT SECTION

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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: C:\Documents and Settings\Superior Backup\Desktop\010162dildn.db
Dataset Pathname: pass3.2
Dataset Creation: Tue Dec 11 17:36:06 2012 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
Performed: Fri Dec 07 07:12:18 2012

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	470.000	-11.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	570.000	-3.500
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

Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART
Source / Verifier: 147 / 147
Master Calibration Performed: Thu Dec 06 18:07:27 2012

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1205.67	613.10	cps
Aluminum	2.590	g/cc	277.64	430.46	cps

Spine Angle = 76.46 Density/Spine Ratio = 0.583

	Size		Reading	
Small Ring	8.10	in	4.69	V
Large Ring	14.00	in	6.52	V

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: Fri Dec 07 07:11:05 2012

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity:	0.7000	GAPI/cps