SUPERIOR WELL SERVICES

SUPERIOR
Hays,
Kansas

SONIC LOG

Company CAPTIVA ENERGY, LLC.
Well CARVER TRUST #1-15
Field IUKA - CARMI
County PRATT State KANSAS

Location: API # : 15-151-22319-0000

1493' FSL & 1783' FEL

SEC 15 TWP 27S RGE 13W

Other Services
CDL/CNL/PE
DIL/MEL

Permanent Datum GROUND LEVEL Elevation 1946
Log Measured From KELLY BUSHING 13' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1959
D.F. 1957
G.L. 1946

Date	12/18/08		
Run Number	TWO		
Depth Driller	4600		
Depth Logger	4600		
Bottom Logged Interval	4587		
Top Log Interval	200		
Casing Driller	13 3/8"@267'		
Casing Logger	267		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 10,000PPM	
Density / Viscosity	9.0/75		
pH / Fluid Loss	11.0/6.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.600@59F		
Rmf @ Meas. Temp	.450@59F		
Rmc @ Meas. Temp	.720@59F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.293@121F		
Time Circulation Stopped	8 HOURS		
Time Logger on Bottom	8:15 A.M.		
Maximum Recorded Temperature	121F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	BRUCE ARD		

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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.

Comments

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

DIRECTIONS

PRATT, KS. 1 MILE S. OF AIRPORT ON HWY 281 TO 30TH AVE., 1E., 1/2N., W. INTO

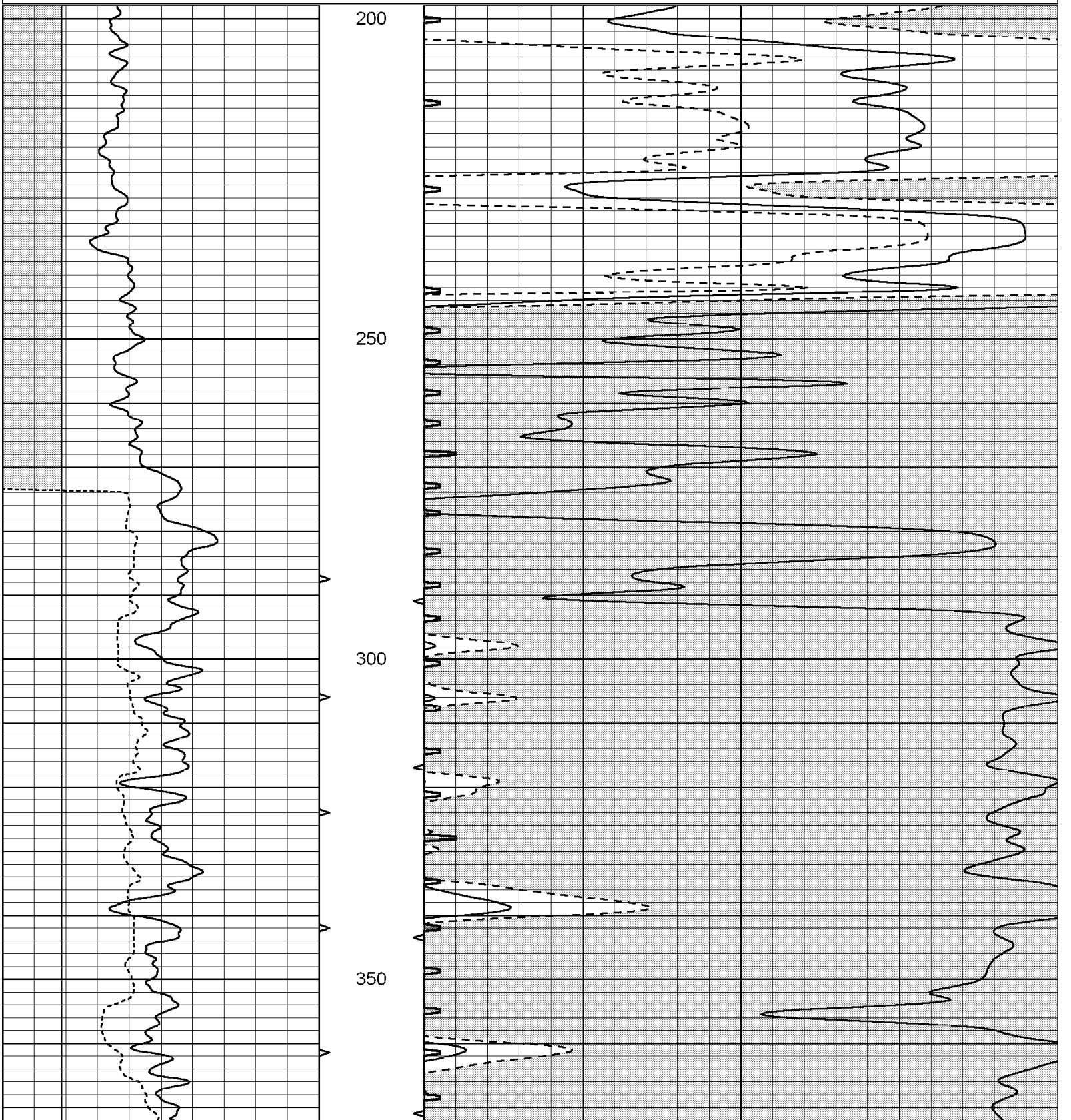
MAIN SECTION

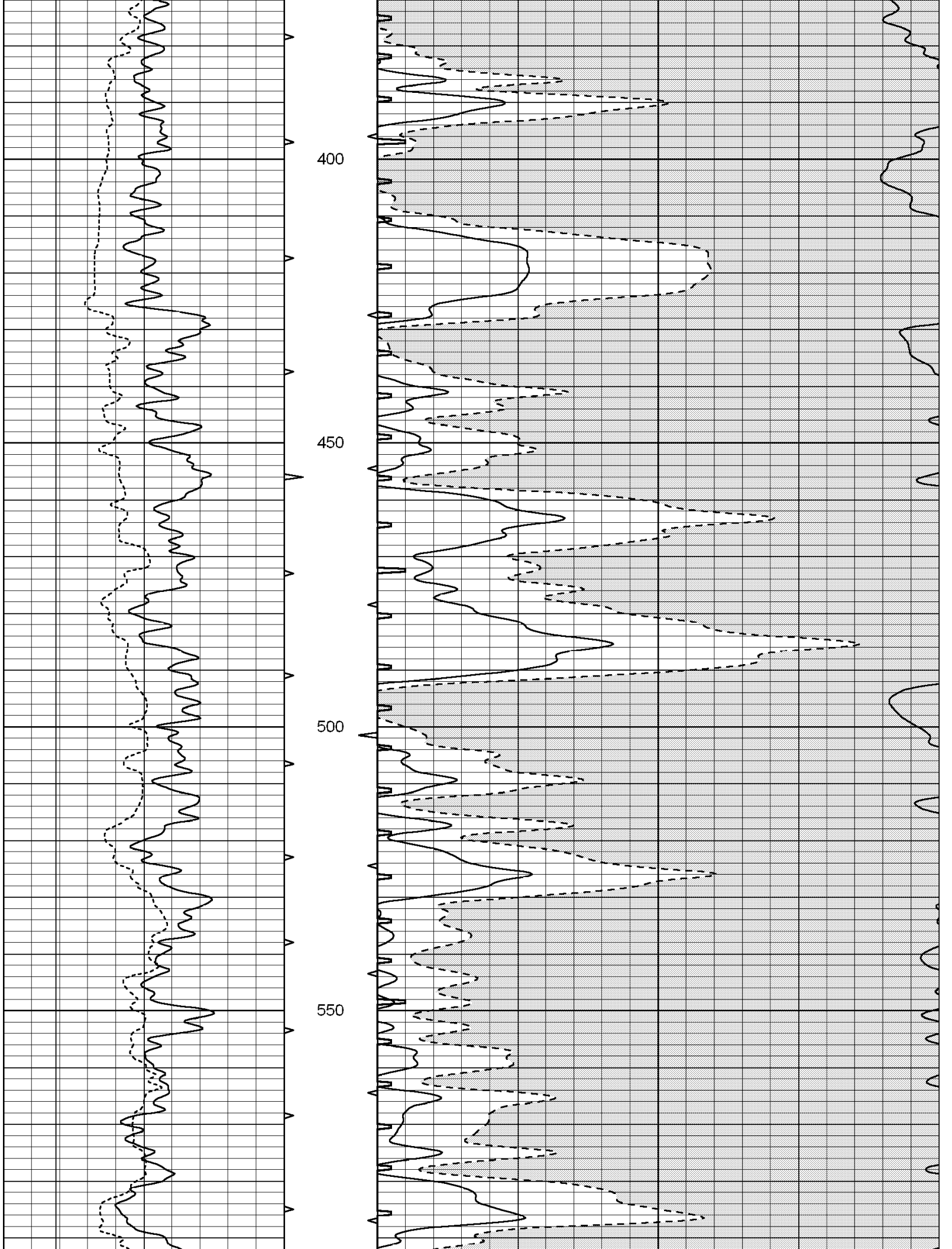
SUPERIOR
Hays,
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SUPERIOR WELL SERVICES

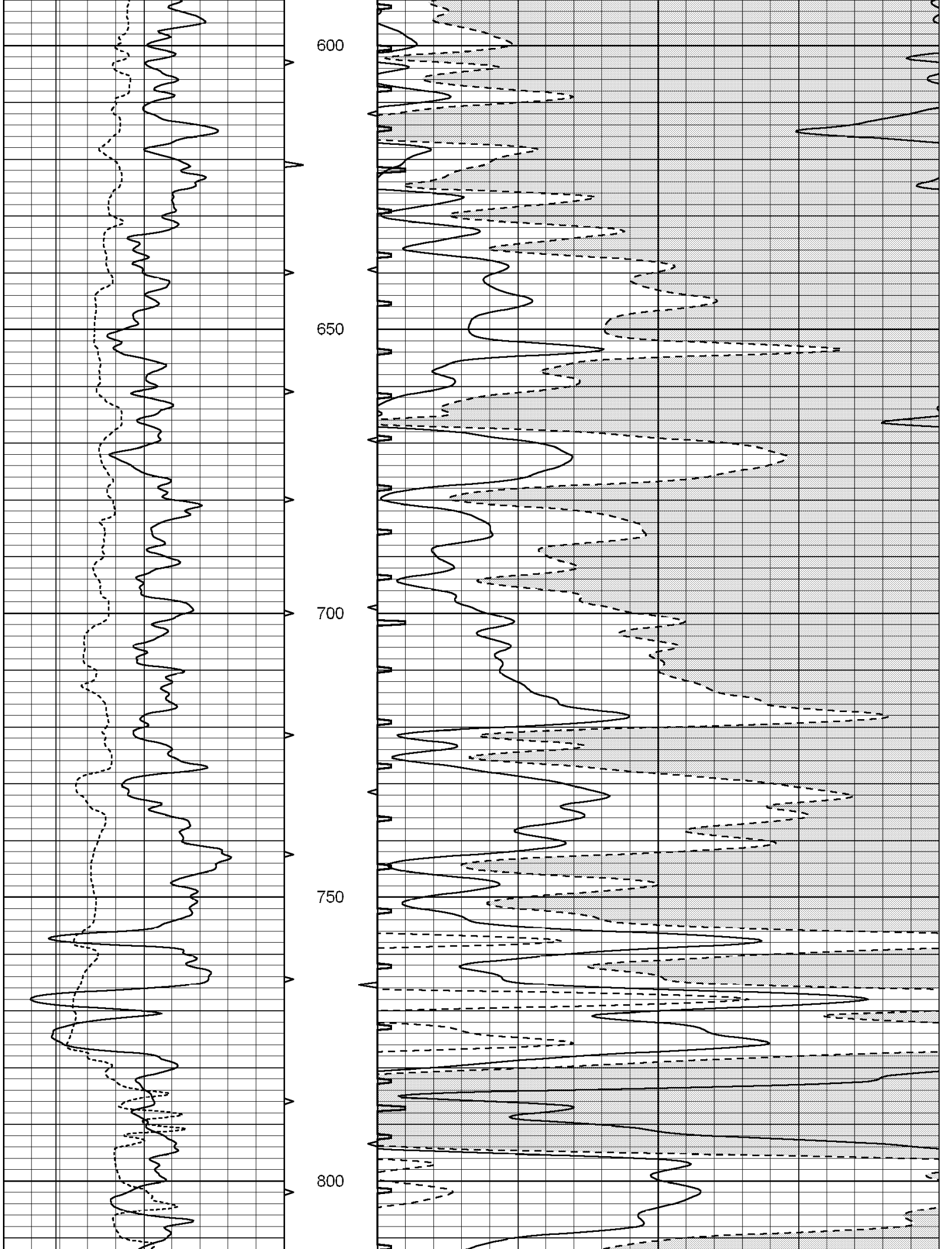
Kansas

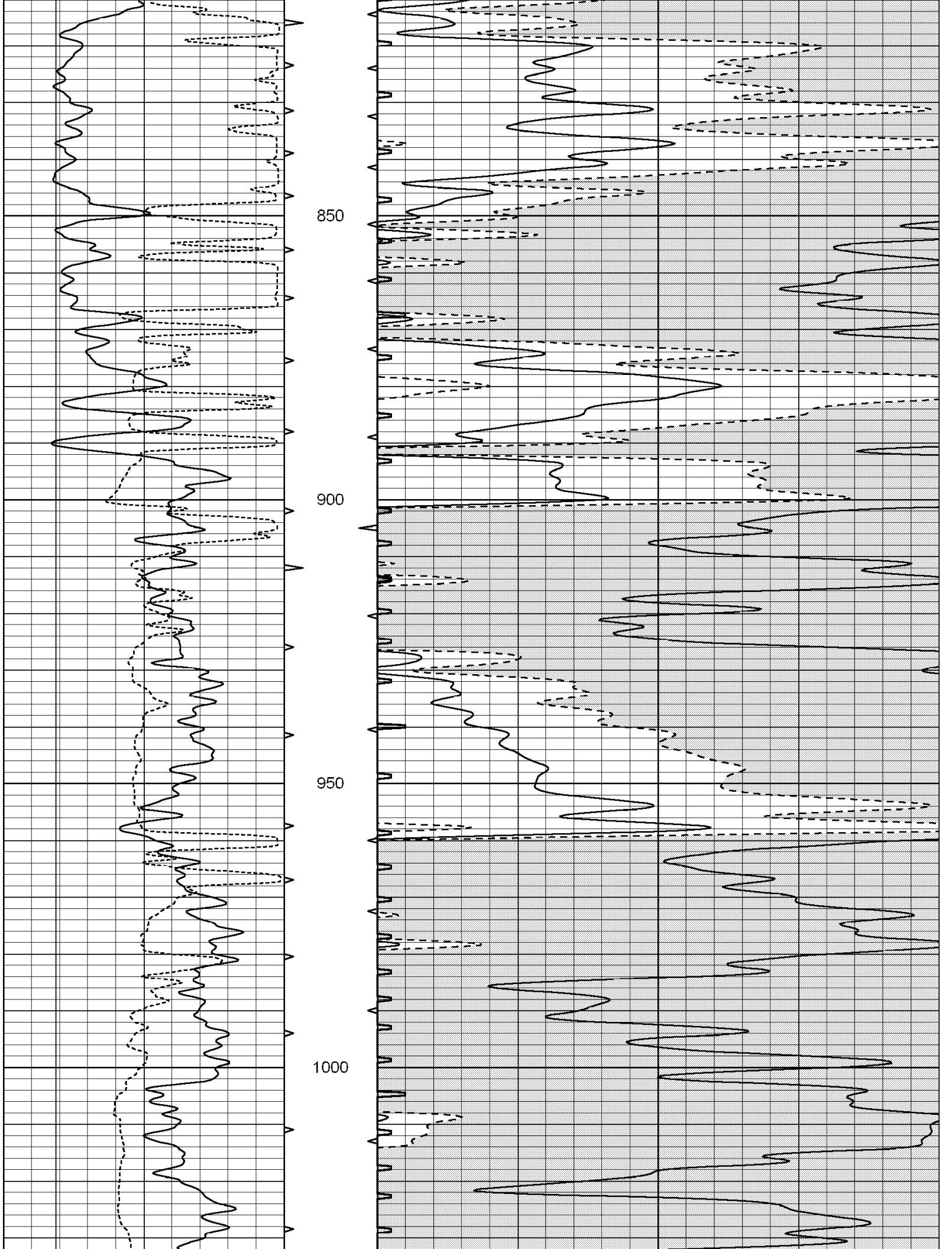
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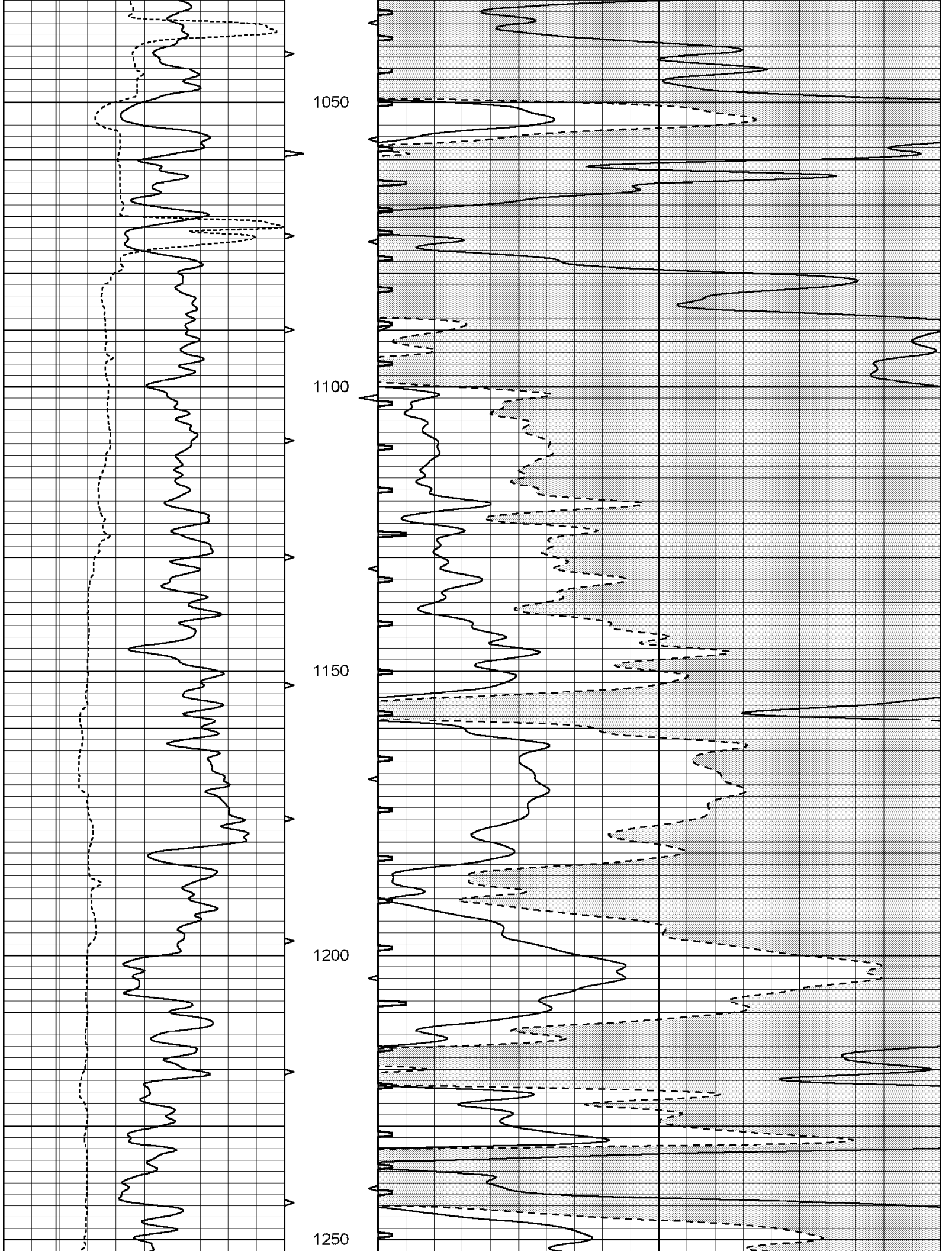
0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft) 40
6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu) -10
			TBHV	0	ITT (msec) 20
			0 (ft3) 10		

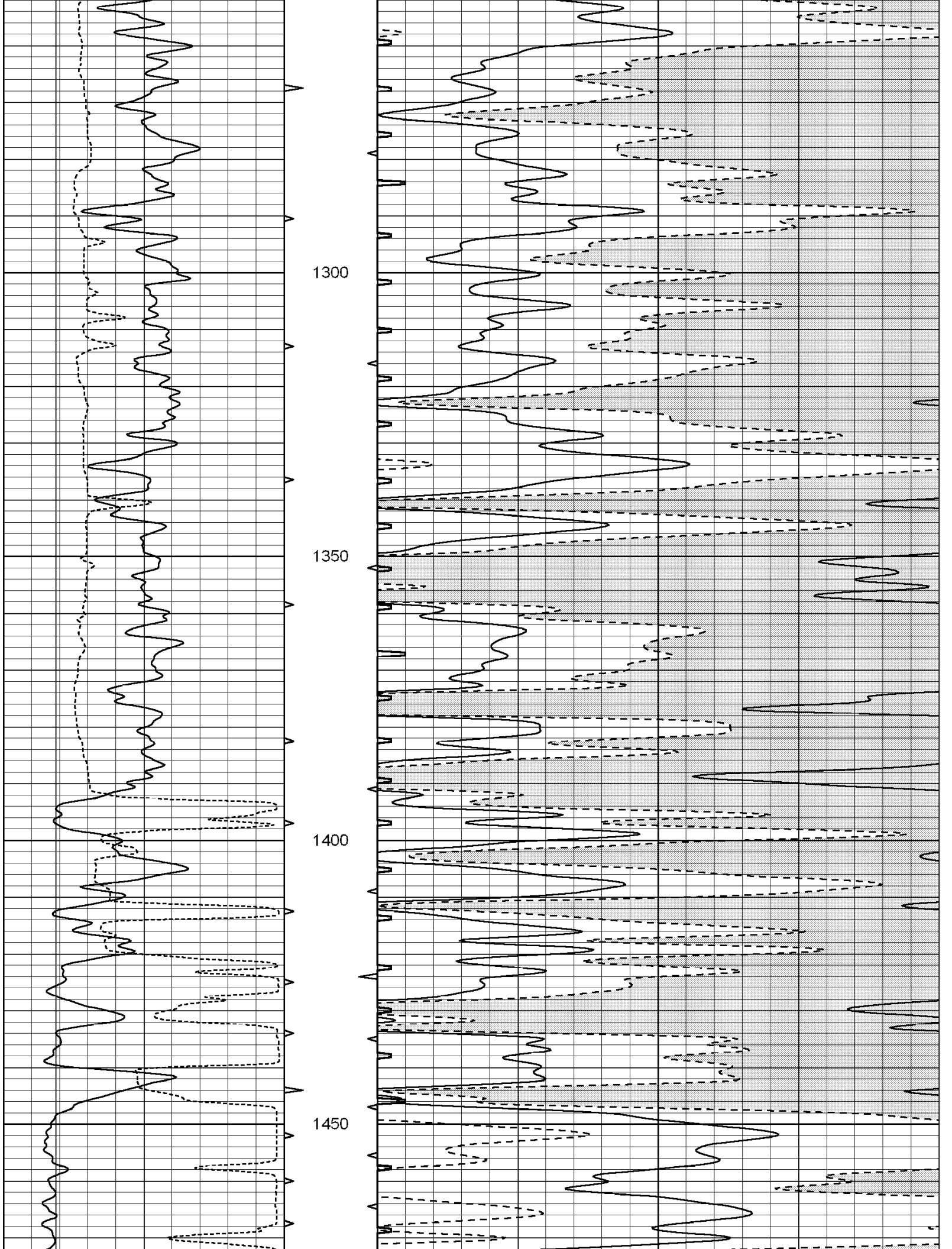


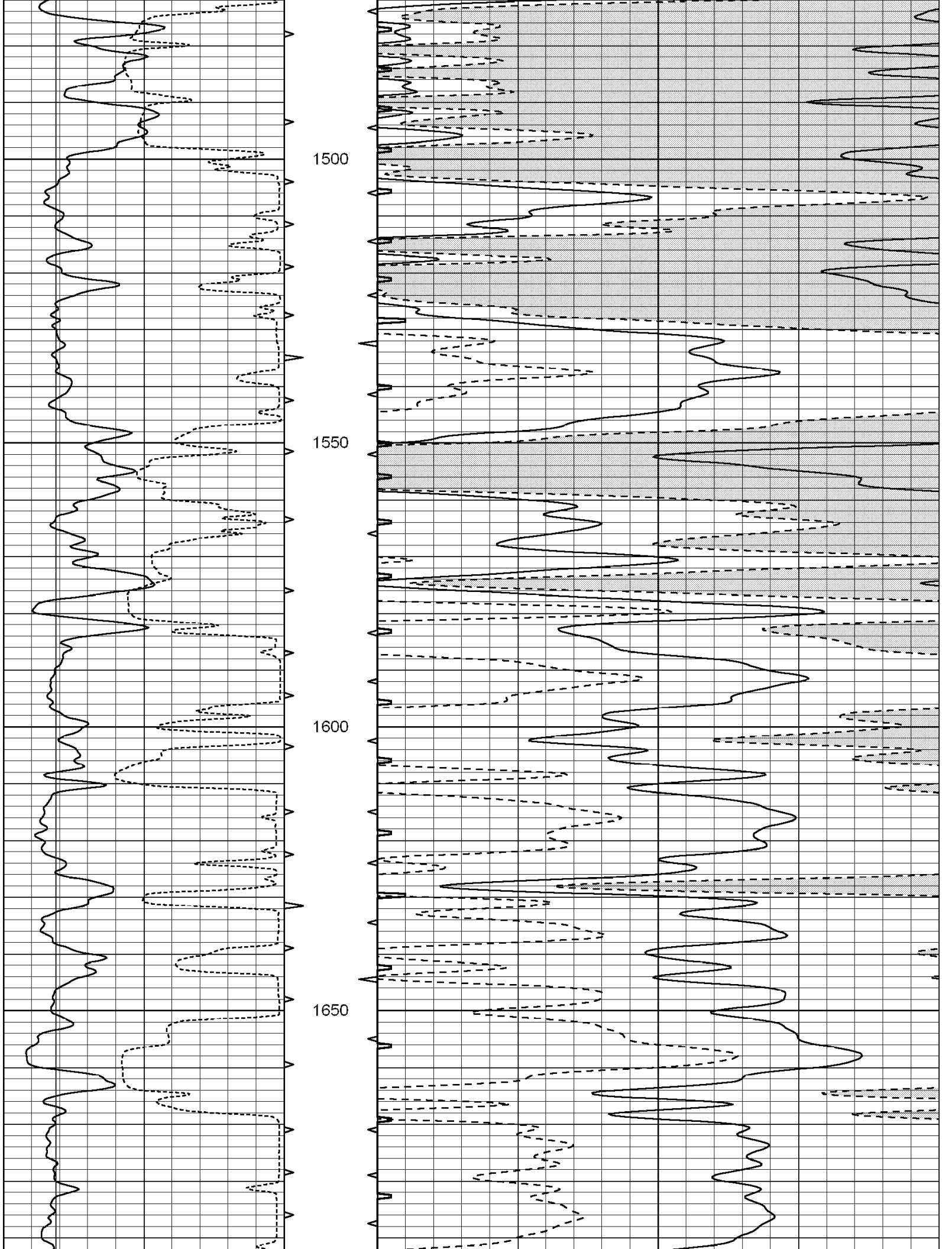

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450
500
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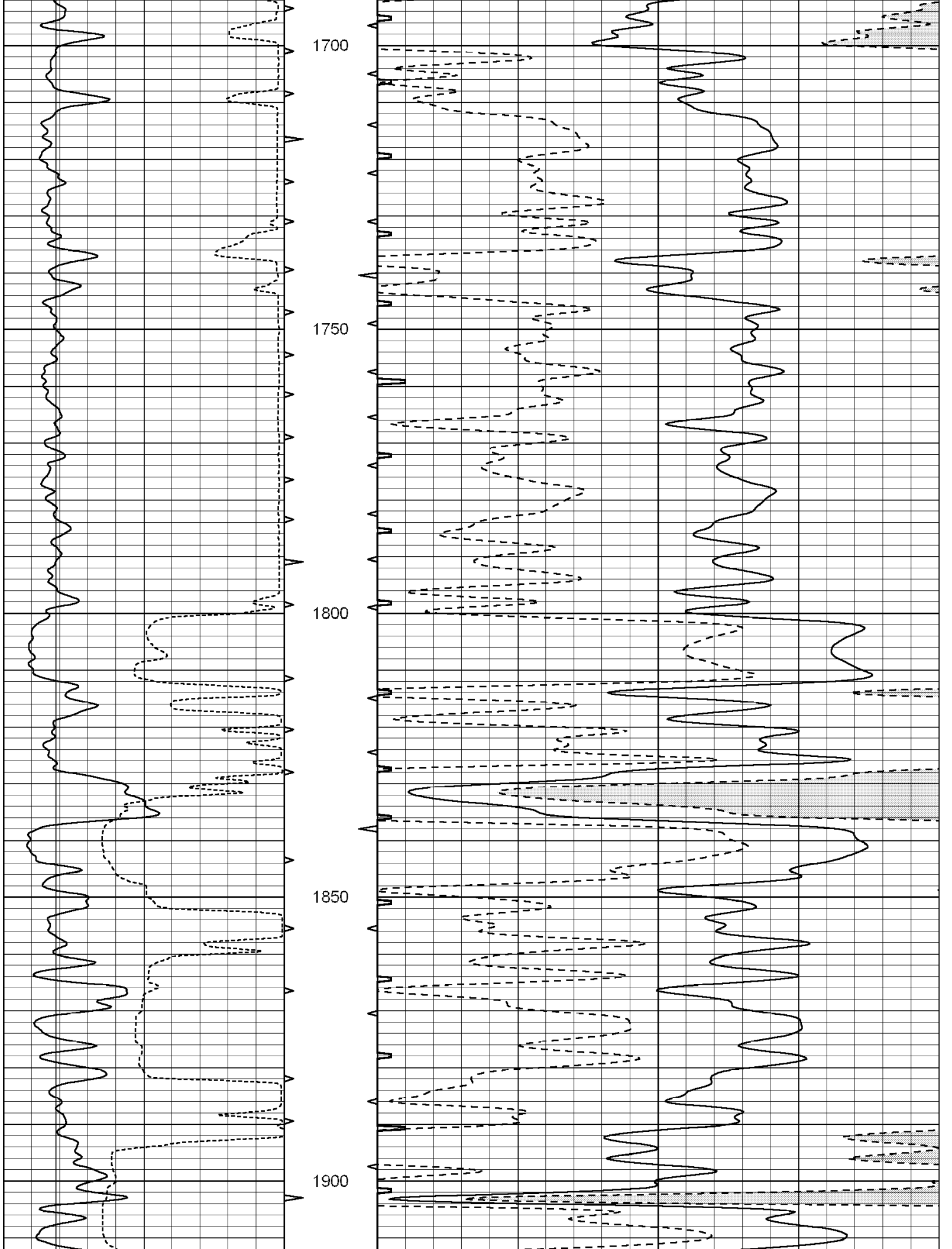

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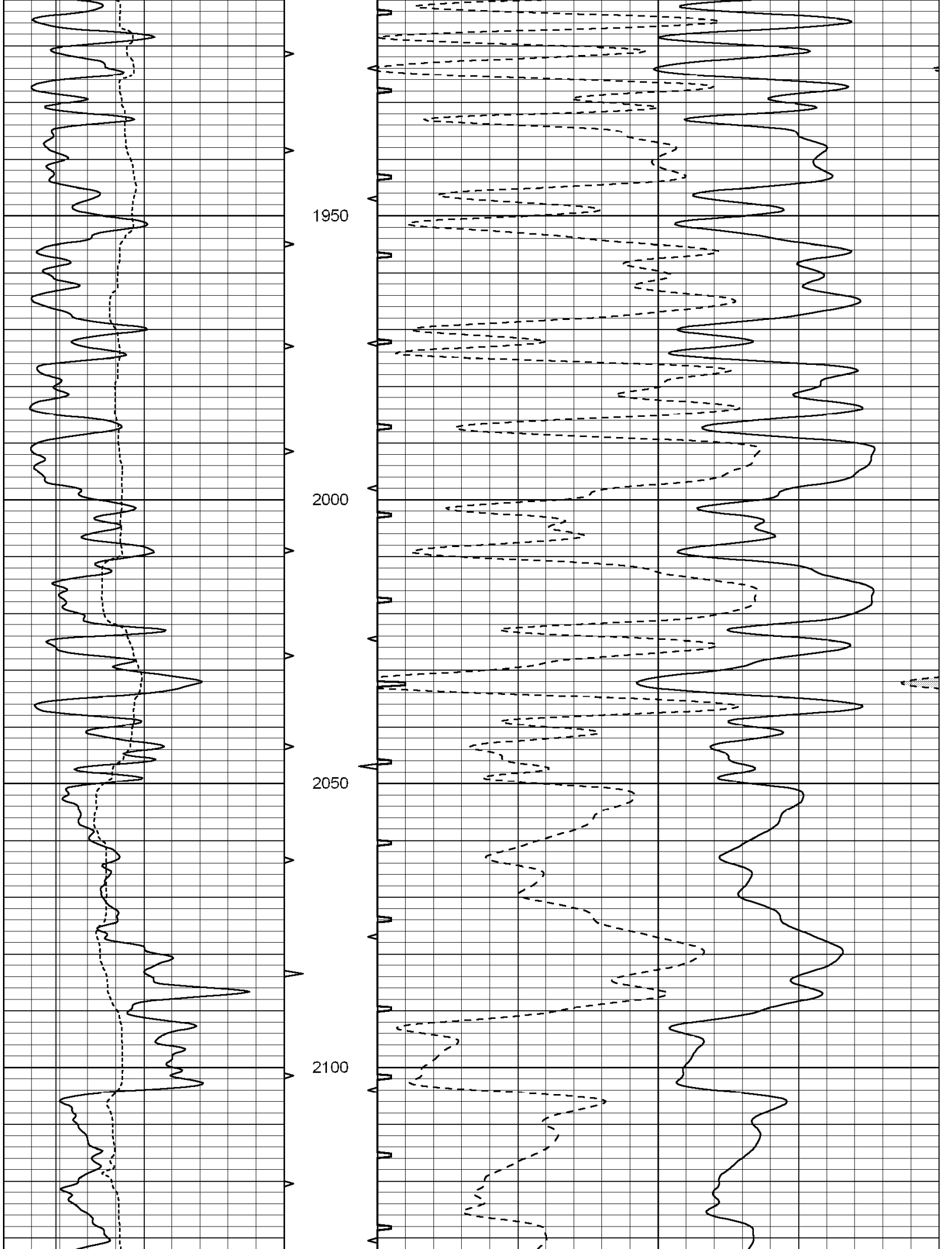

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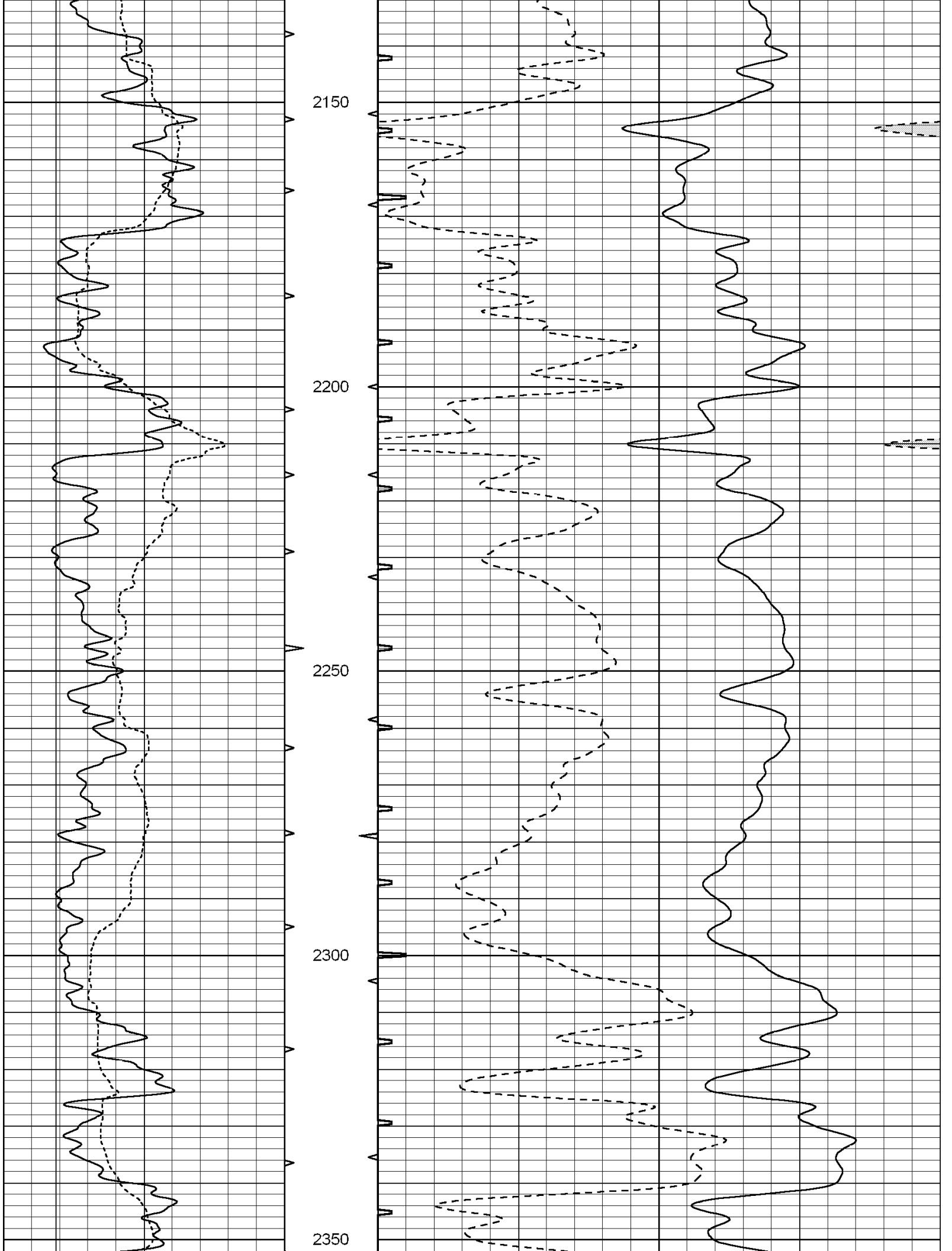

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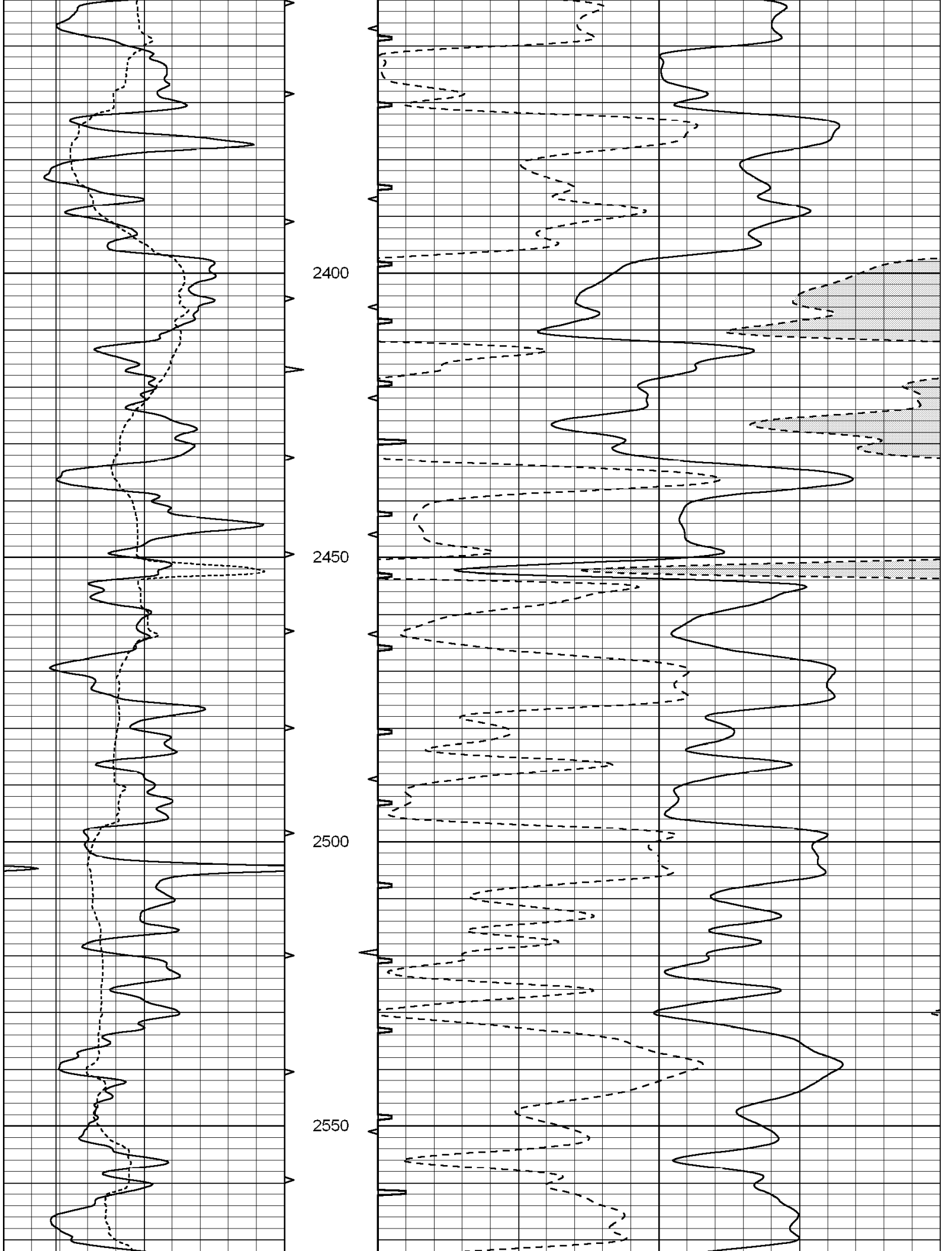

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1450

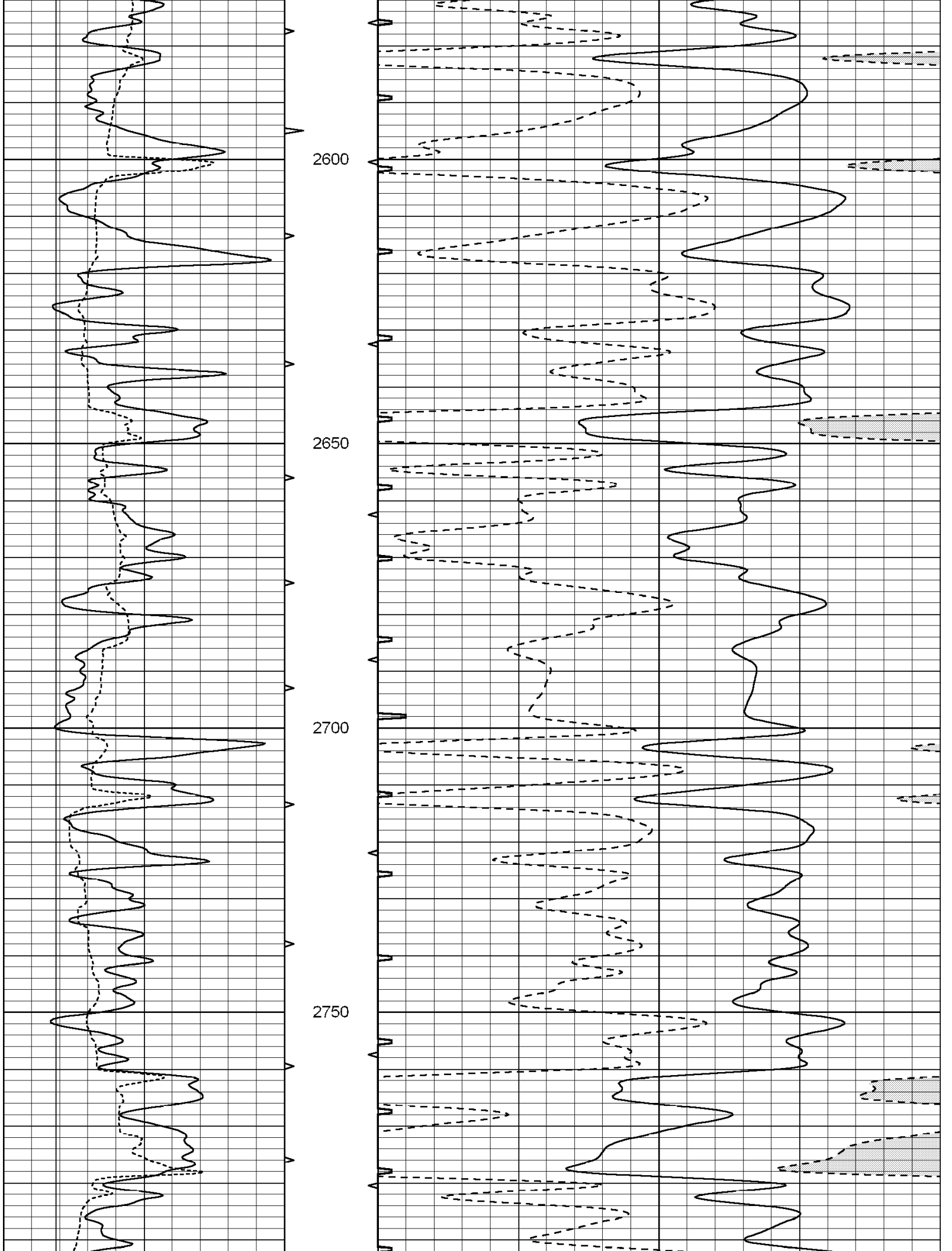

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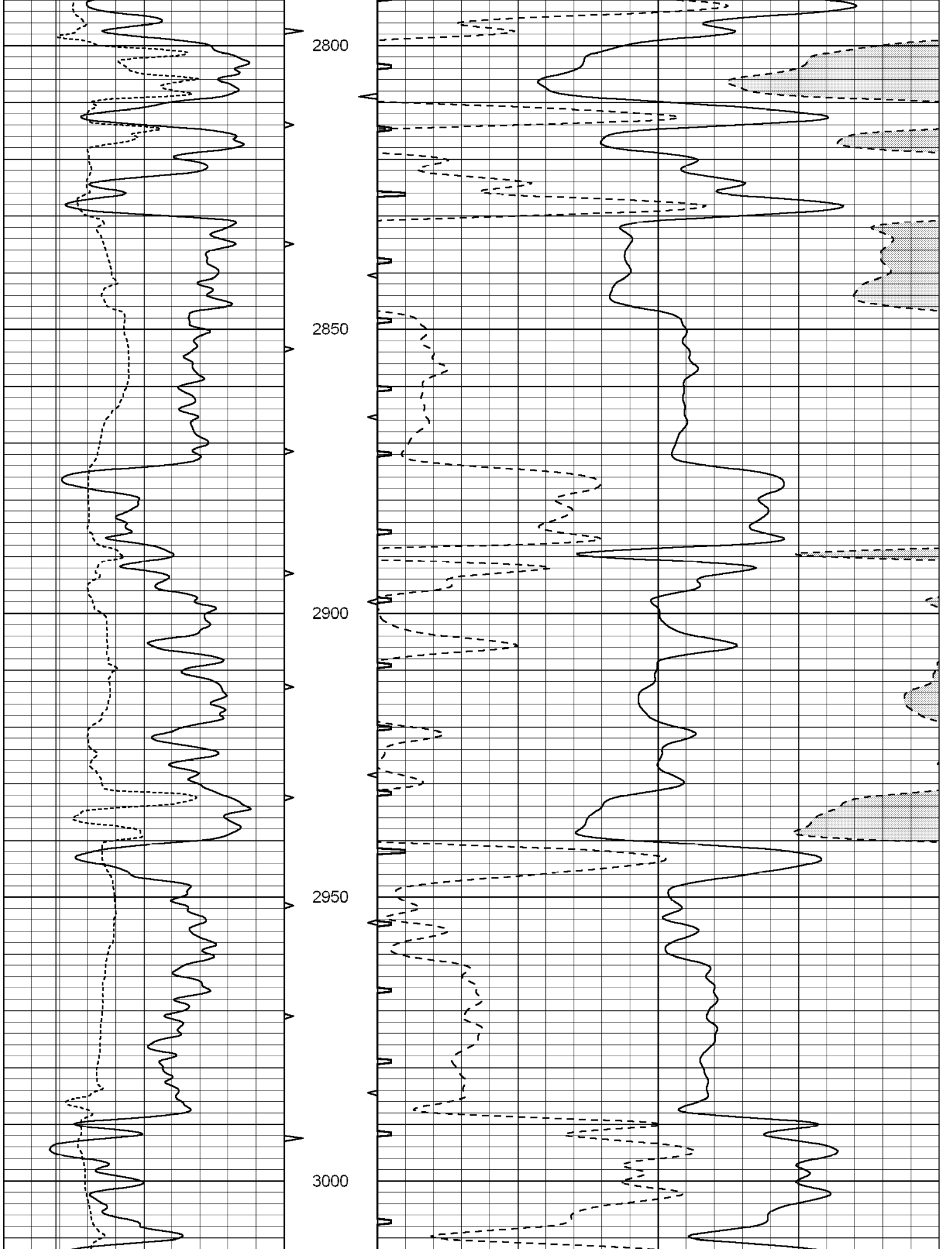

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1850
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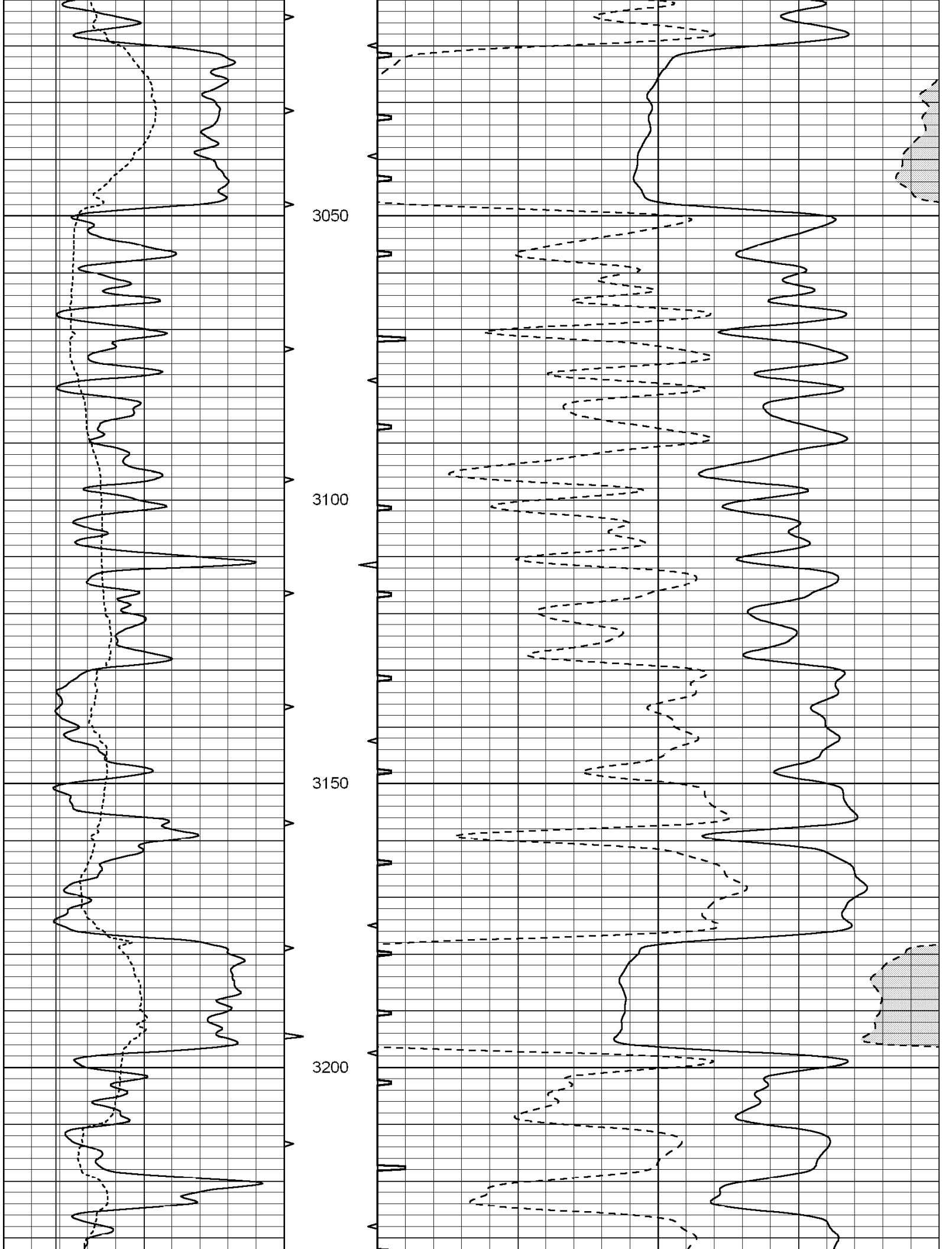

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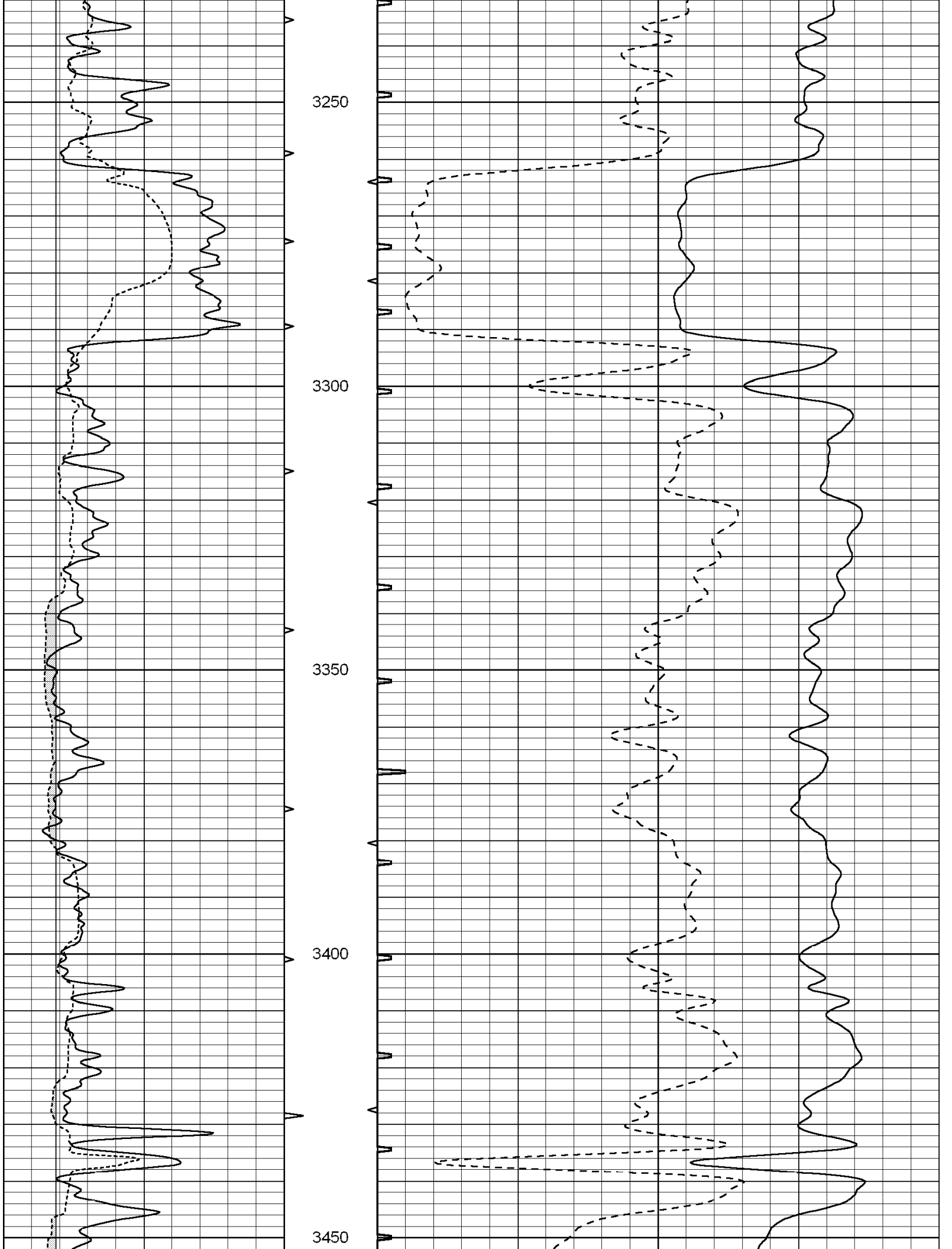

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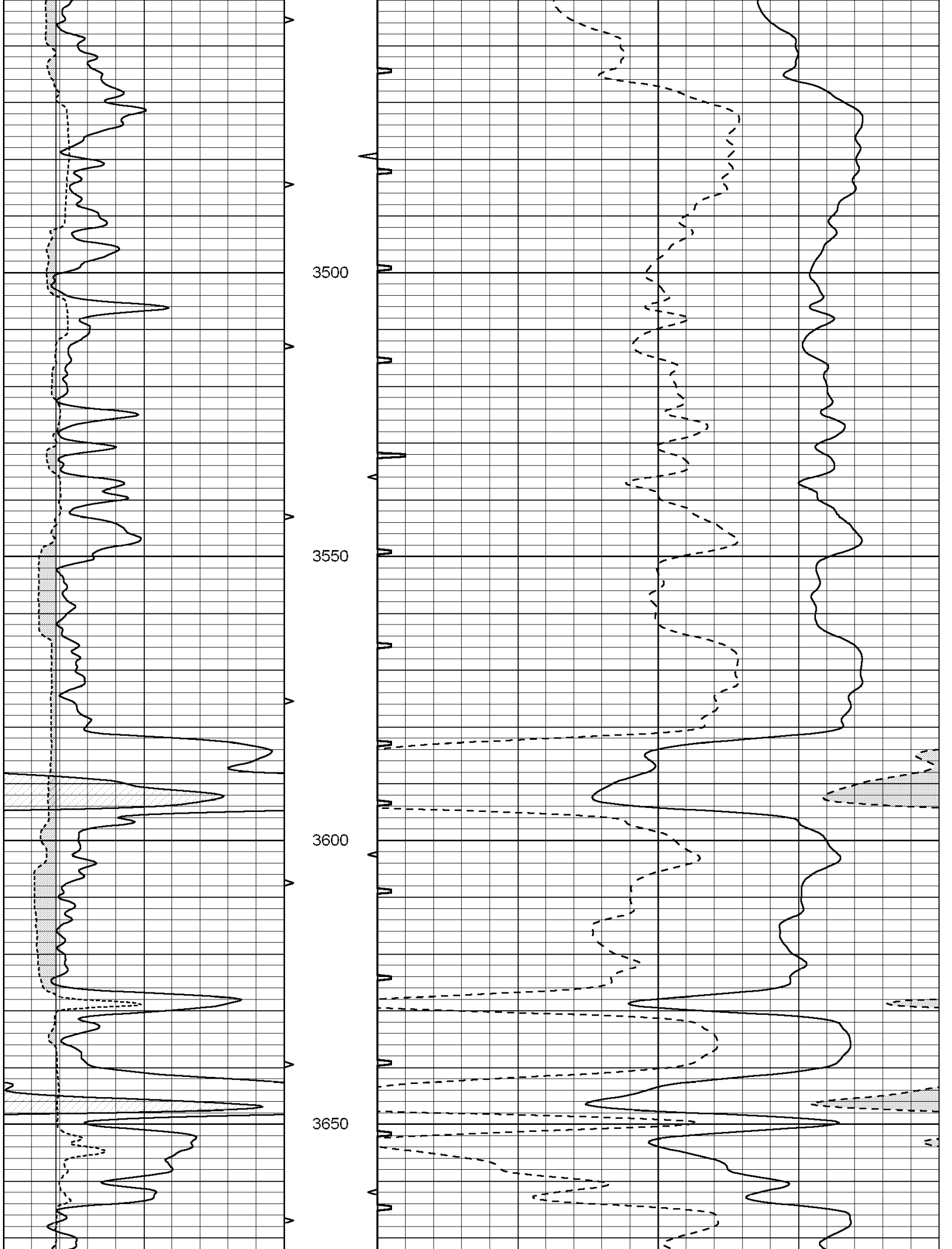

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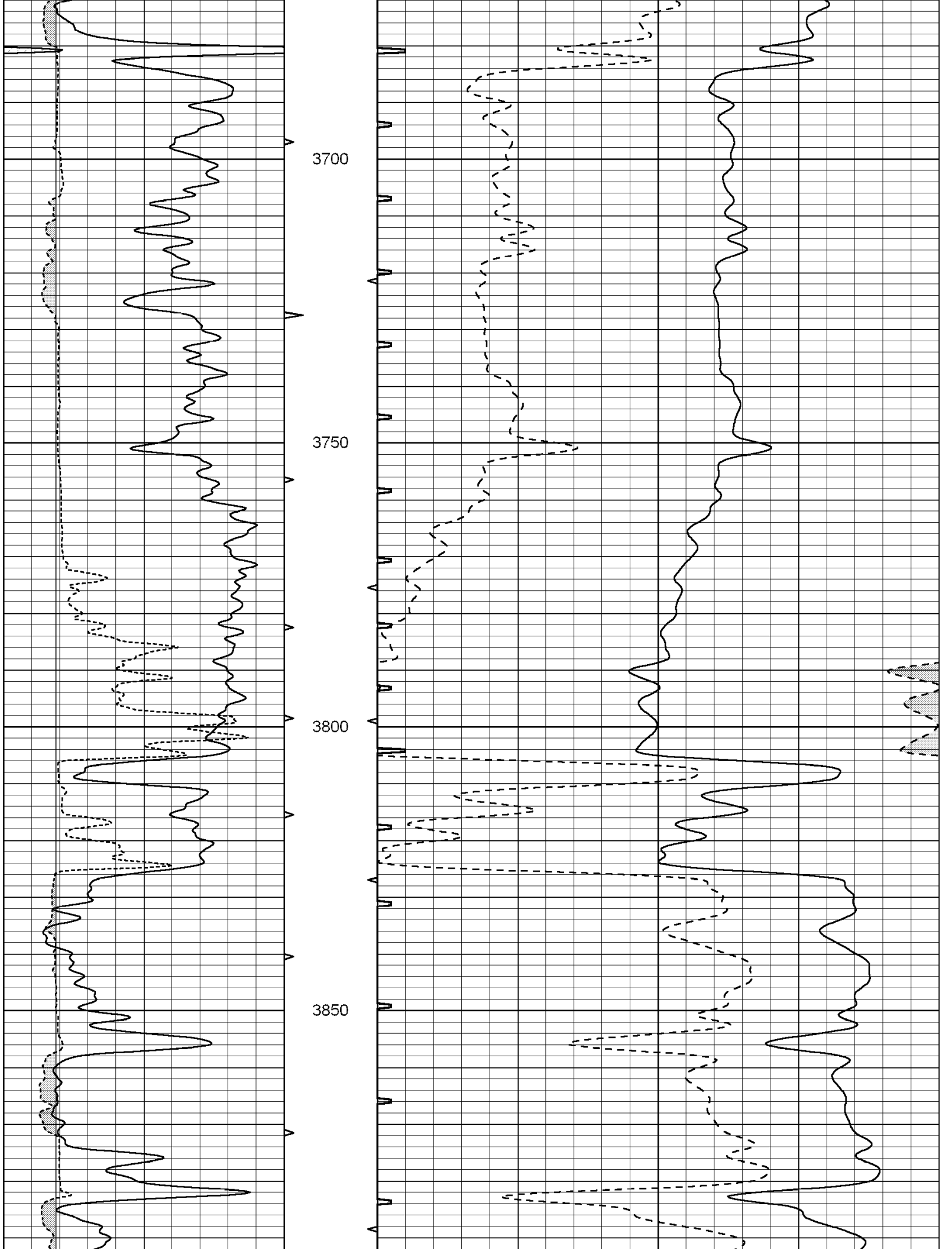

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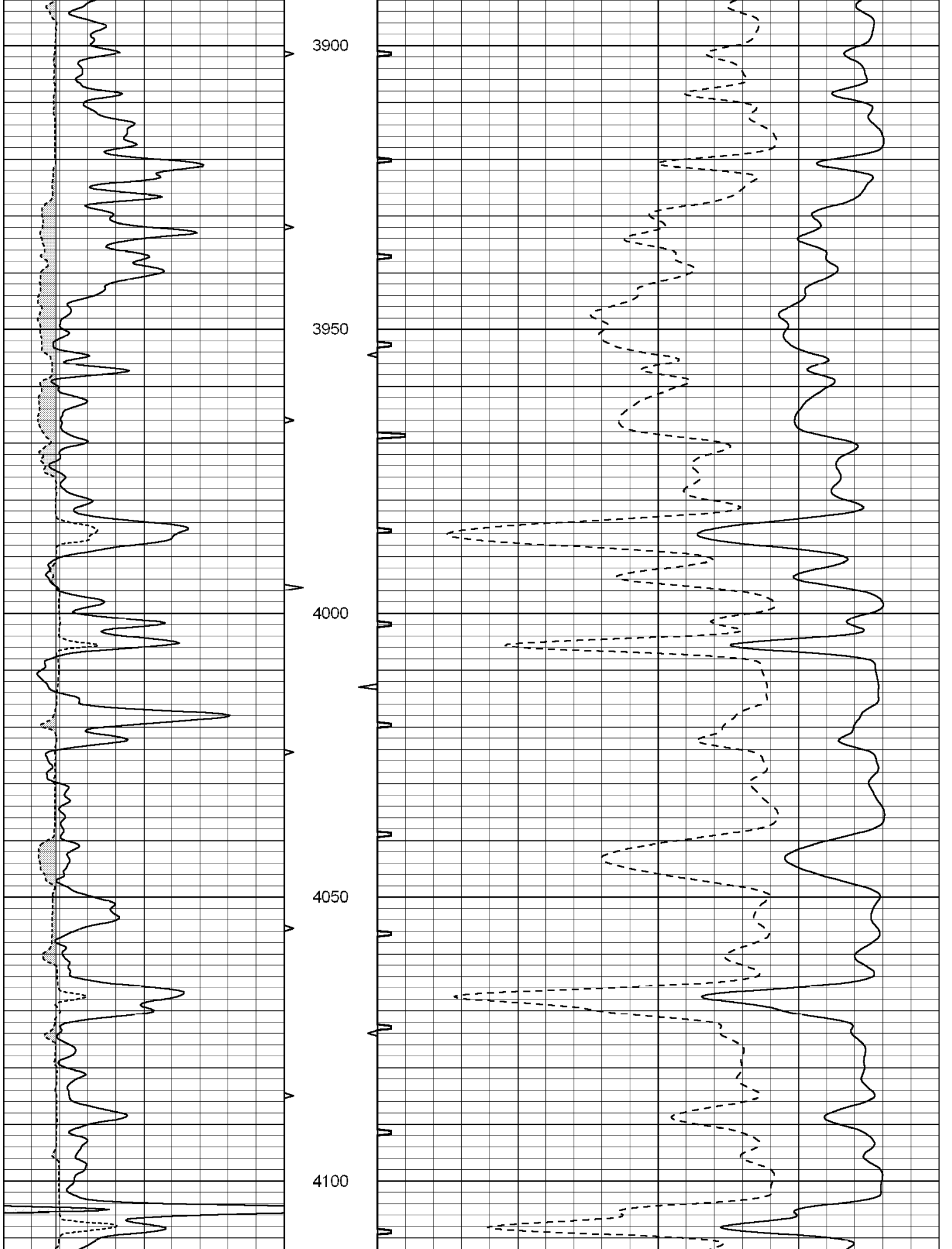

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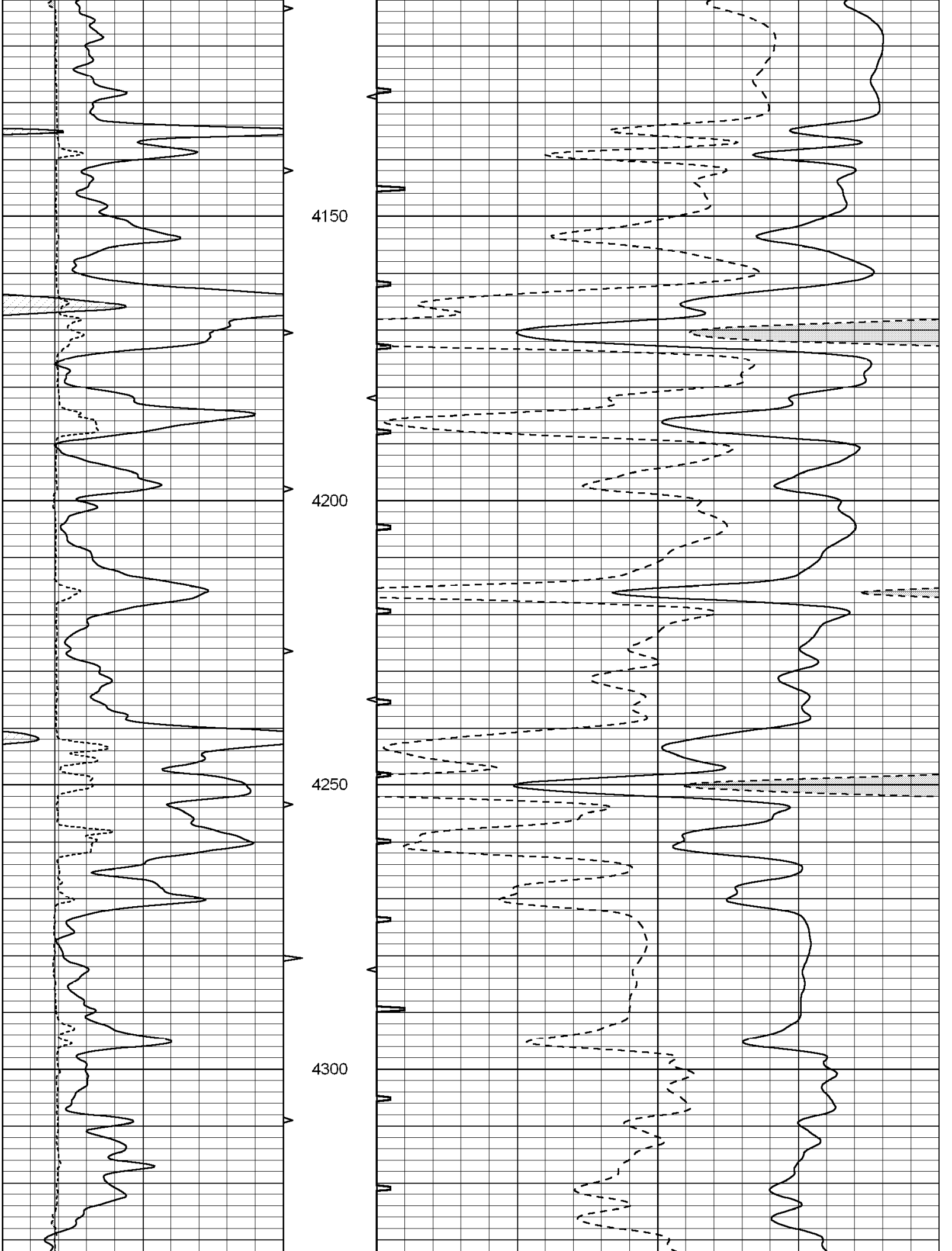

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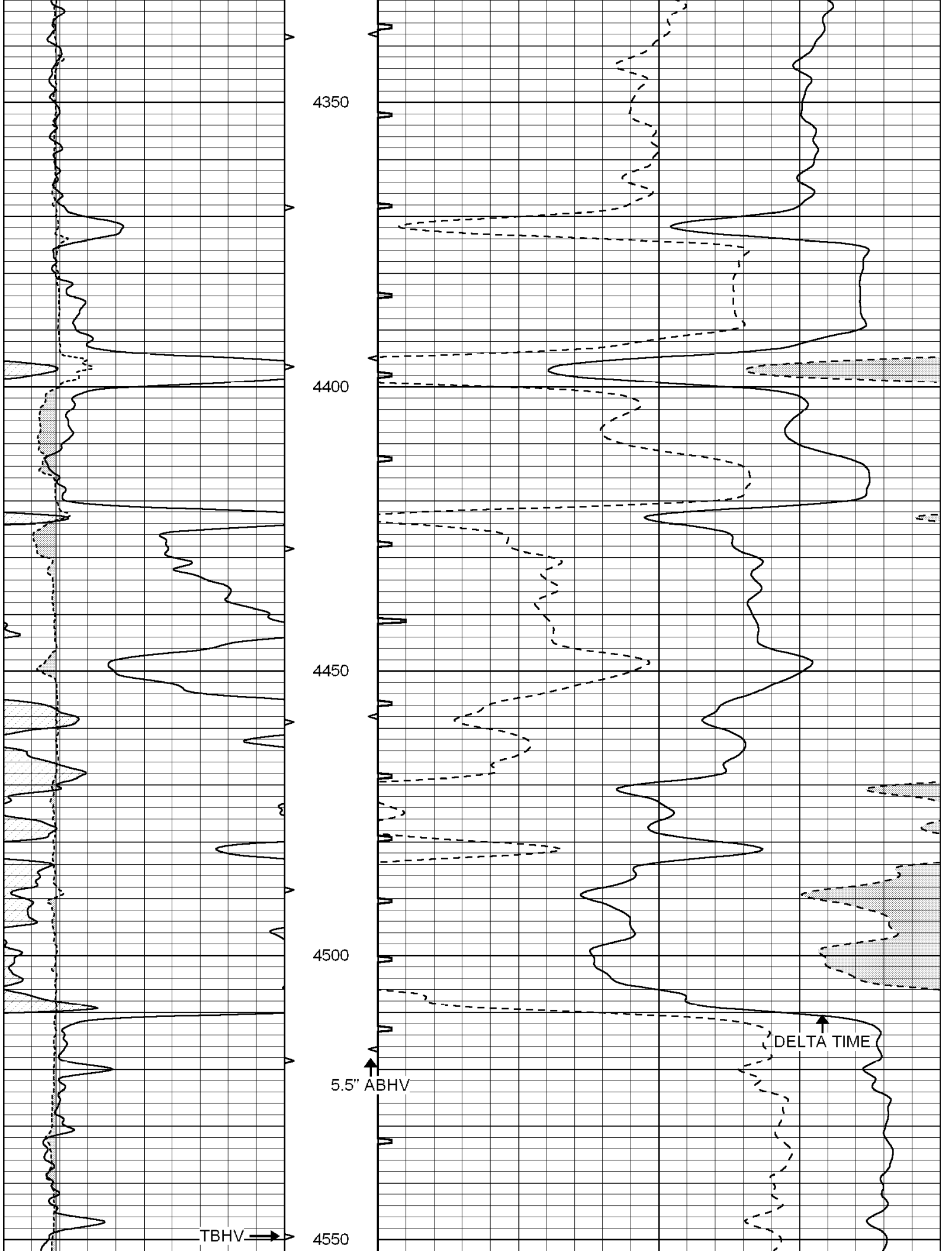

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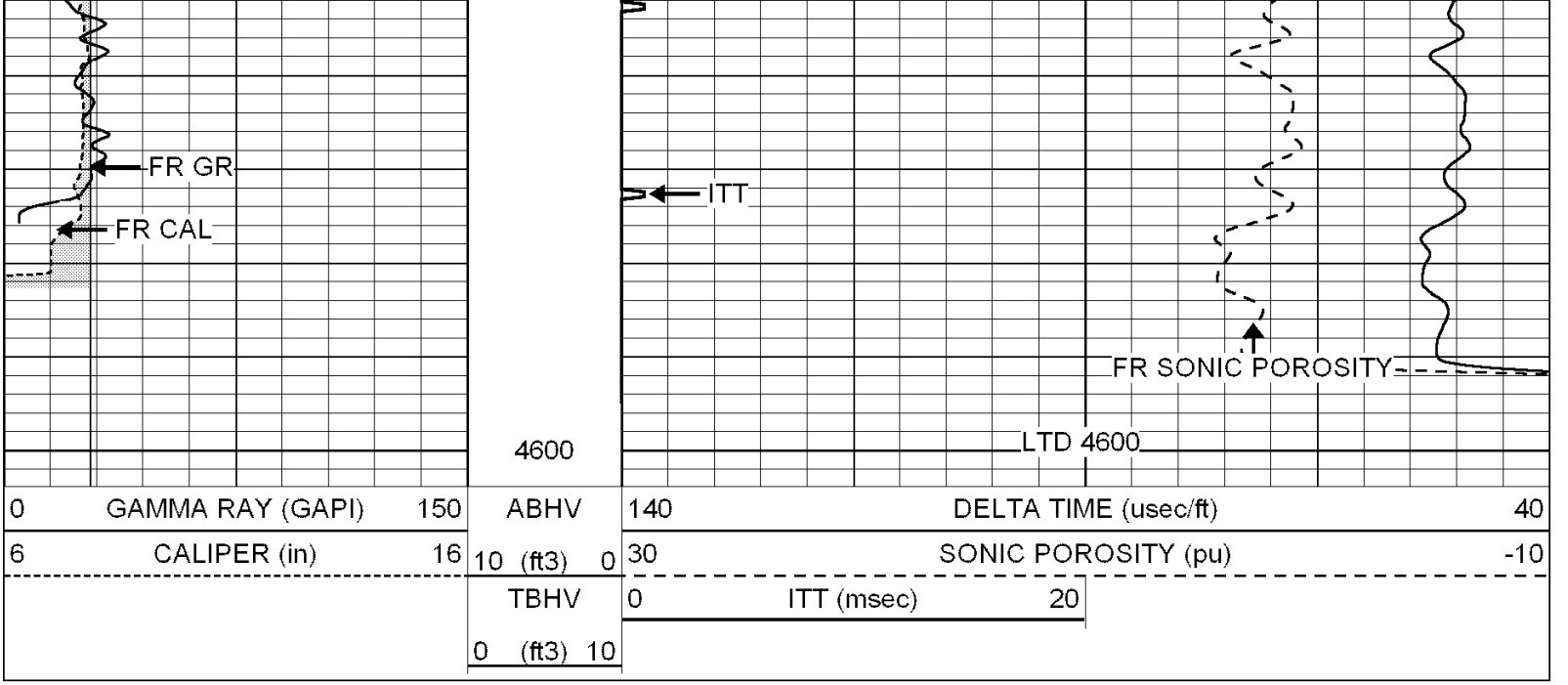

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3550
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3700
3750
3800
3850


3900
3950
4000
4050
4100


4150
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4250
4300


4350
4400
4450
4500
4550
TBHV
5.5" ABHV
DELTA TIME

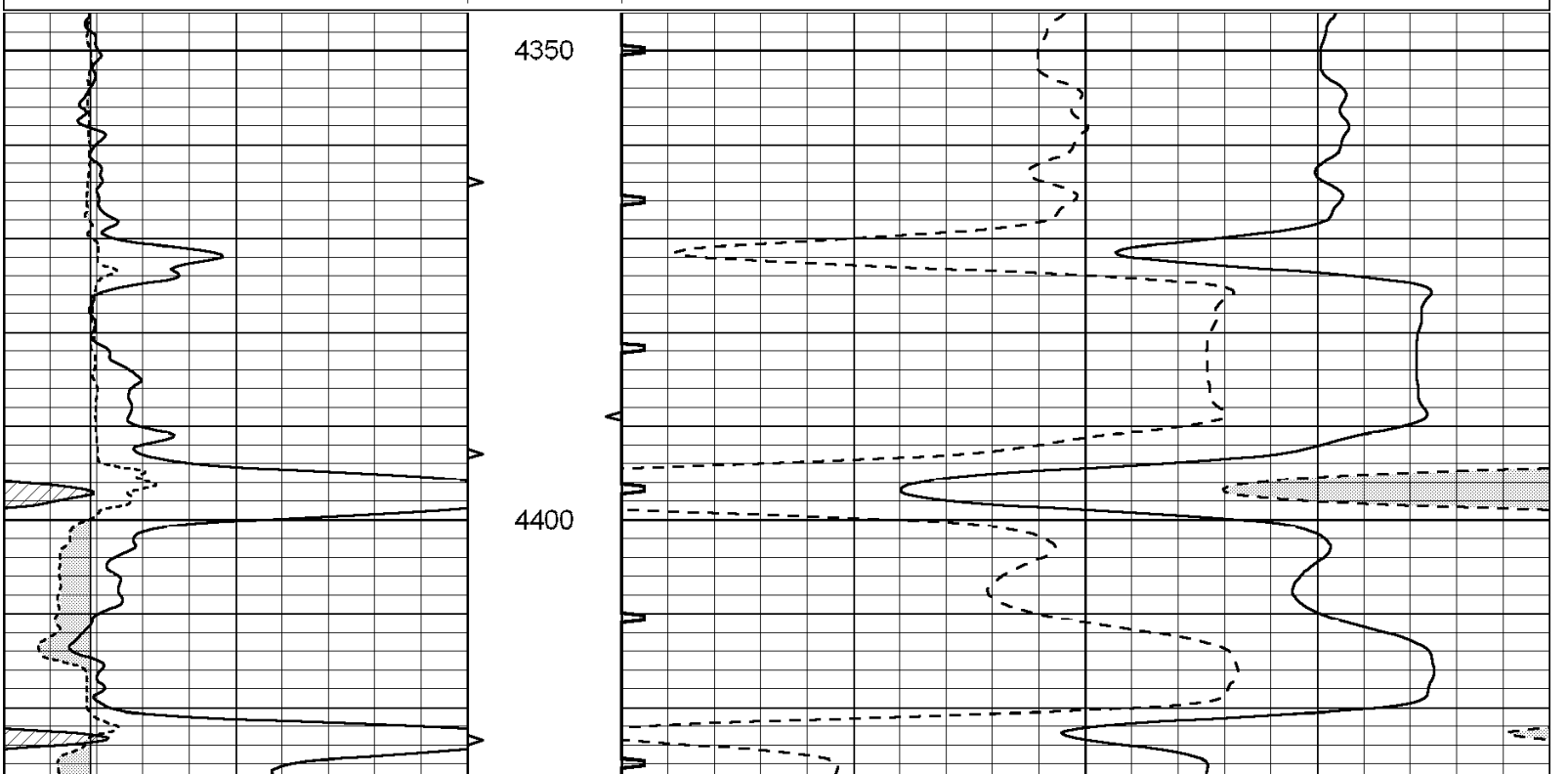


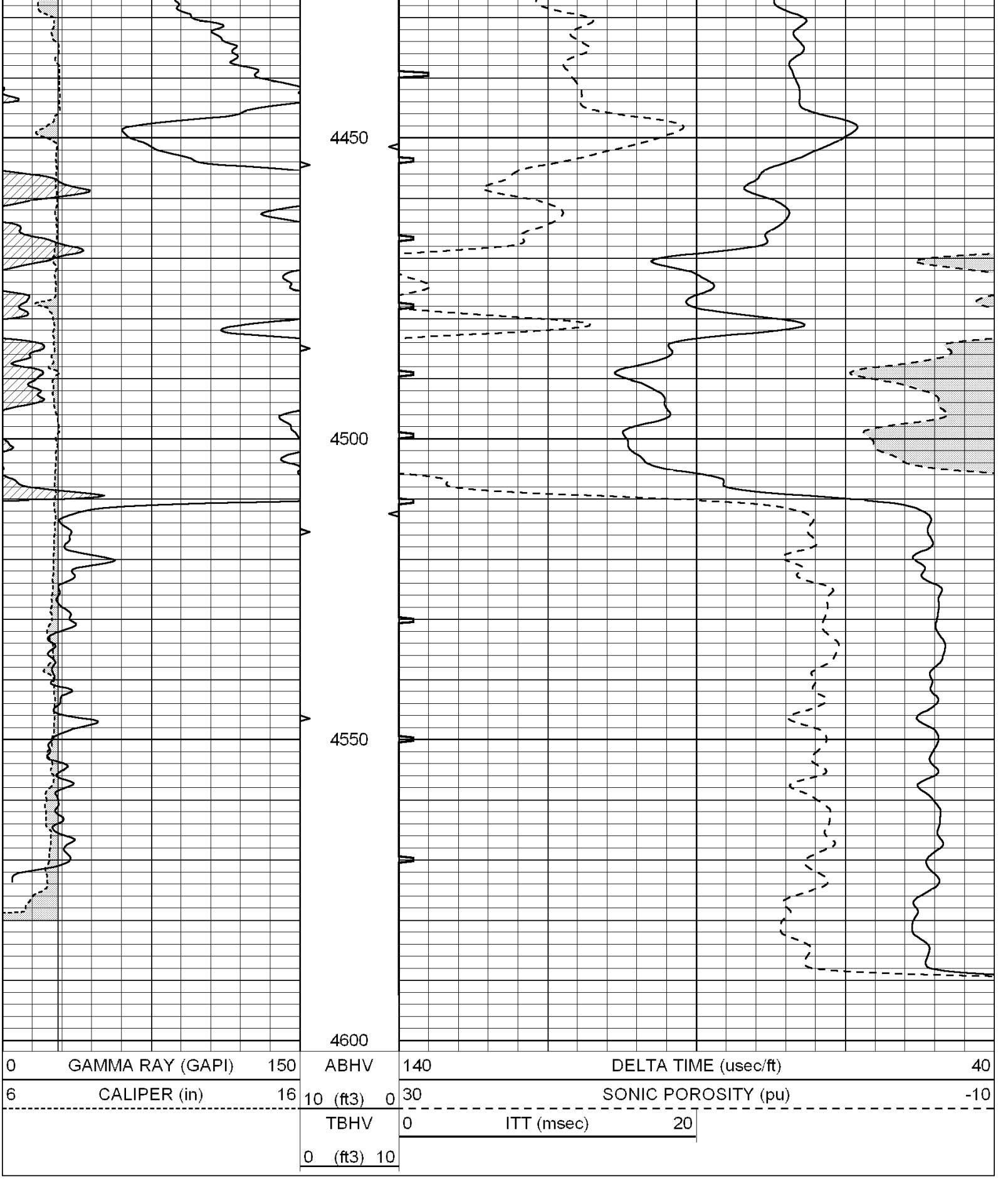
SUPERIOR WELL SERVICES

SUPERIOR
Hays, Kansas

REPEAT SECTION

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Charted by:	Depth in Feet scaled 1:240




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4500
4550
4600
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6 CALIPER (in) 16
ABHV
10 (ft3) 0
TBHV
0 (ft3) 10
140 DELTA TIME (usec/ft) 40
30 SONIC POROSITY (pu) -10
0 ITT (msec) 20