SUPERIOR WELL SERVICES

SUPERIOR
Hays,
Kansas

SONIC LOG

Company MULL DRILLING COMPANY, INC.
Well SMITH-RUFENACHT UNIT #1-11
Field
County NESS State KANSAS
Location: API # : 15-135-25421-0000
2561' FSL & 647' FEL
NE/4 - SE/4
SEC 11 TWP 17S RGE 24W
Permanent Datum GROUND LEVEL Elevation 2476
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL/PE
DIL/MEL

Elevation
K.B. 2481
D.F. 2479
G.L. 2476

Date	7/25/12		
Run Number	TWO		
Depth Driller	4550		
Depth Logger	4548		
Bottom Logged Interval	4538		
Top Log Interval	200		
Casing Driller	8 5/8" @ 234		
Casing Logger	233		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5900 PPM	
Density / Viscosity	9.1/44		
pH / Fluid Loss	9.5/12.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.57 @ 93F		
Rmf @ Meas. Temp	0.43 @ 93F		
Rmc @ Meas. Temp	0.68 @ 93F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	0.44 @ 121F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	121F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JEFF GRONEWEG		
Witnessed By	KEVIN KESSLER		

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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.

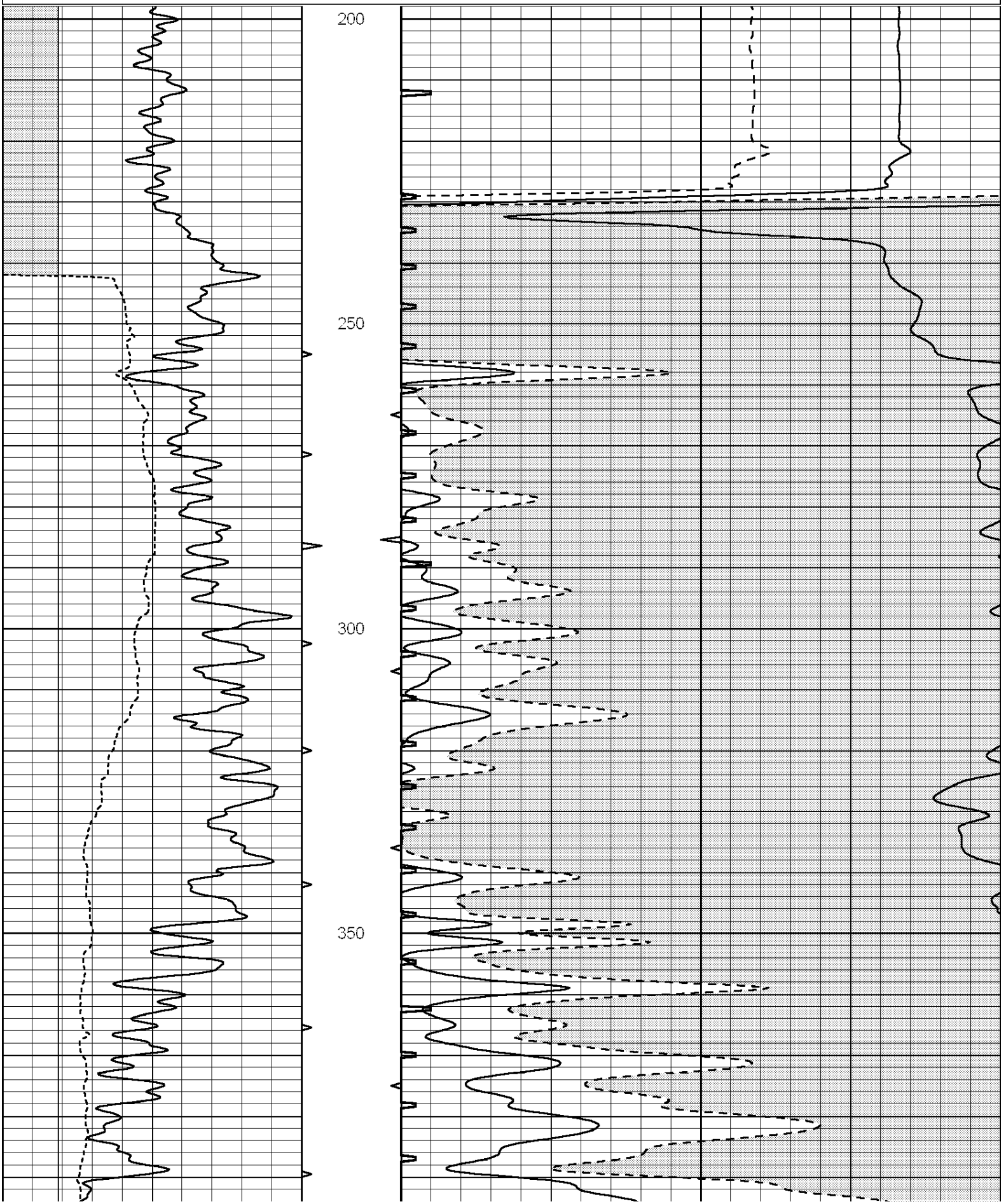
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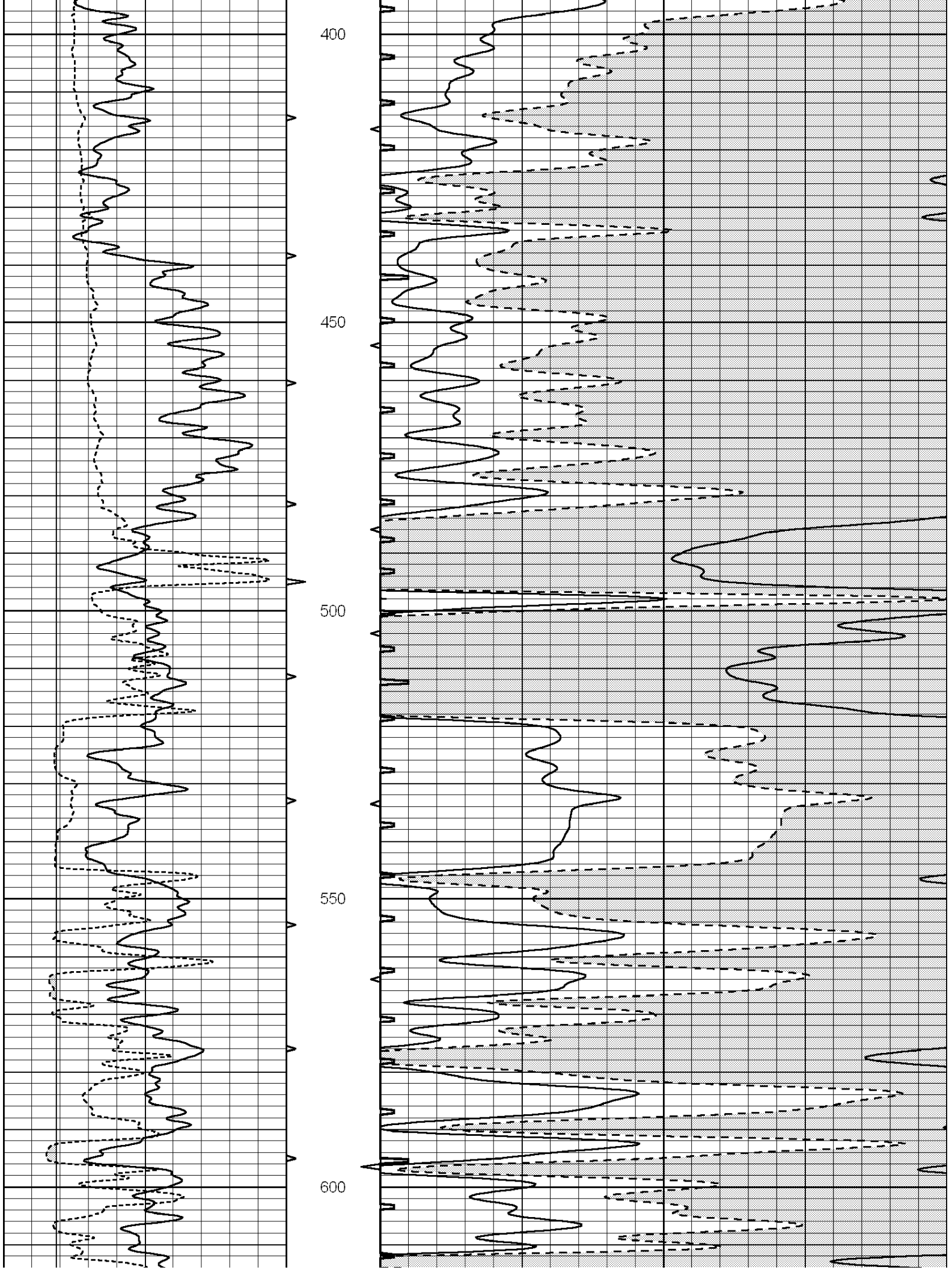
THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
RANSOM, KS - WEST EDGE OF TOWN TO RD Q - 3 MILES SOUTH
WEST INTO

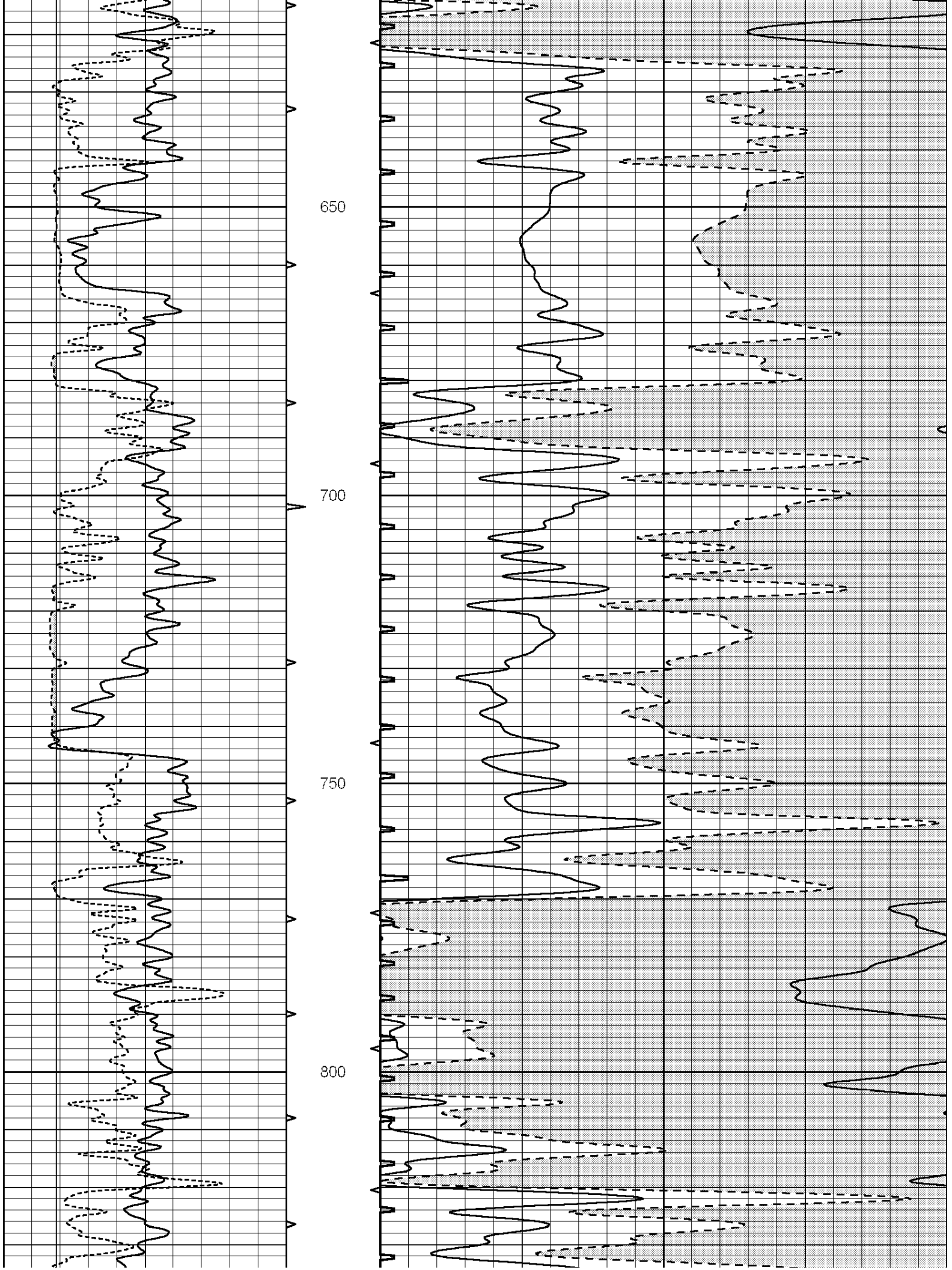
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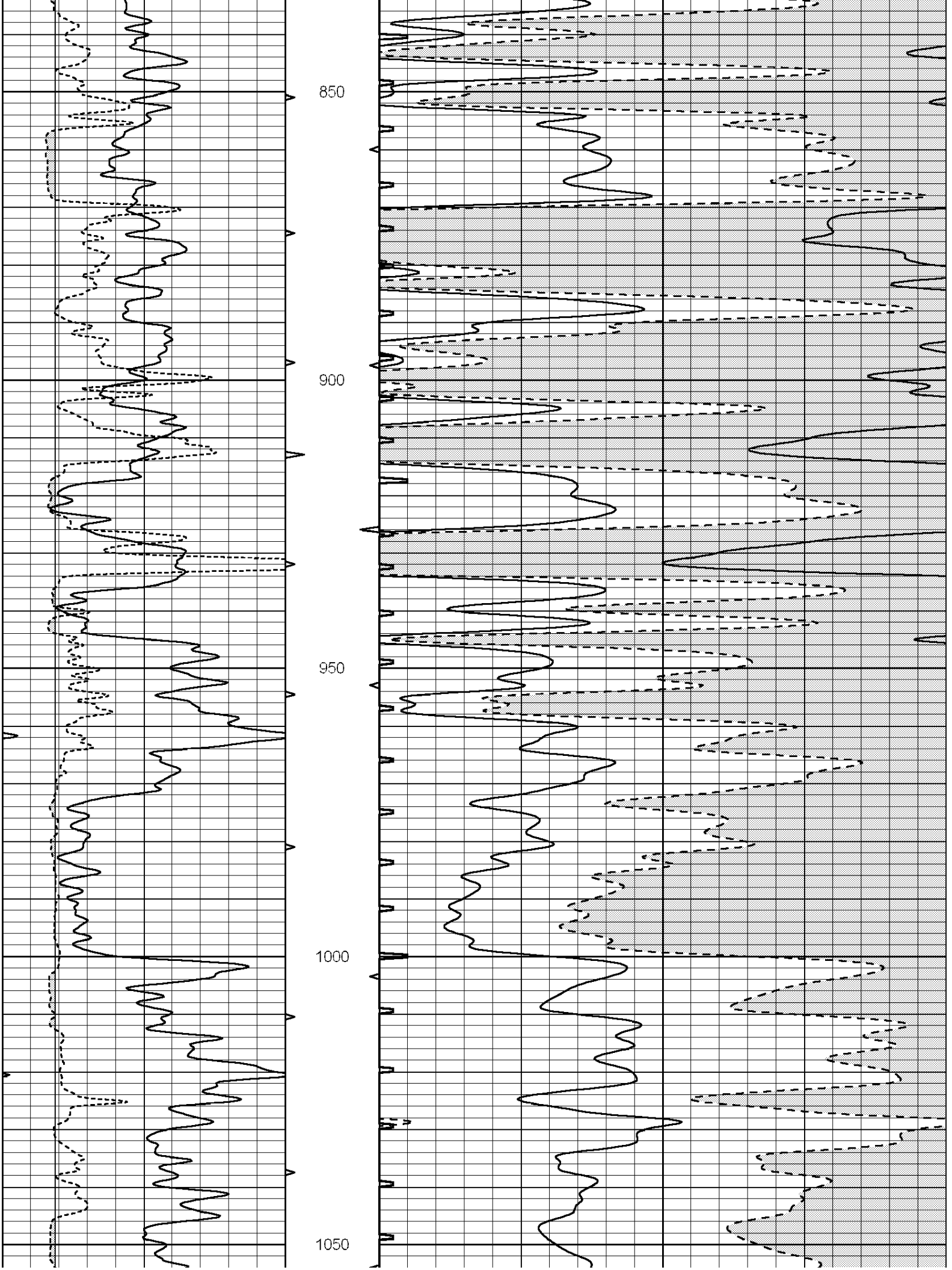
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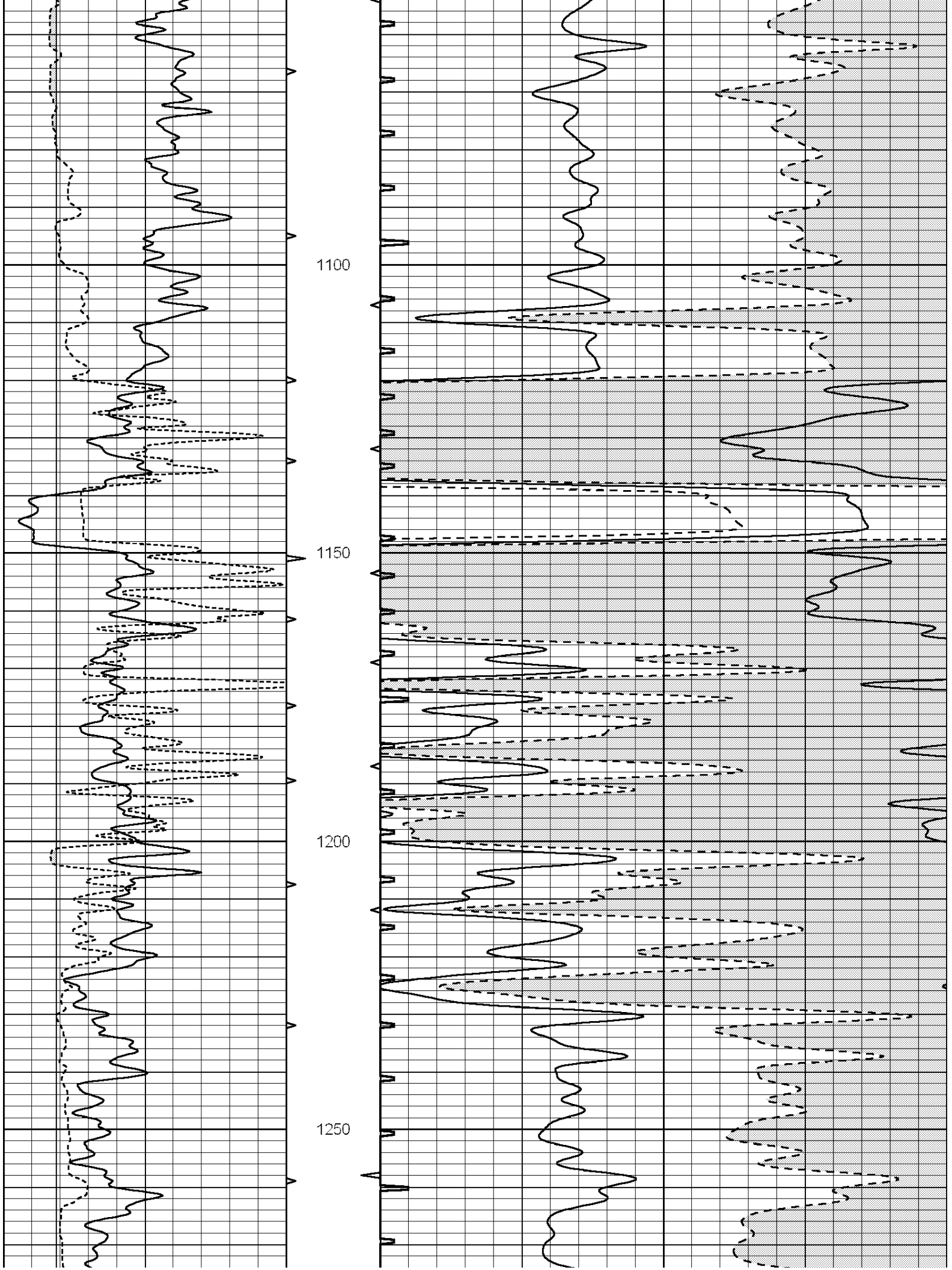
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6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu) -10
			TBHV	0	ITT (msec) 20
			0 (ft3) 10		

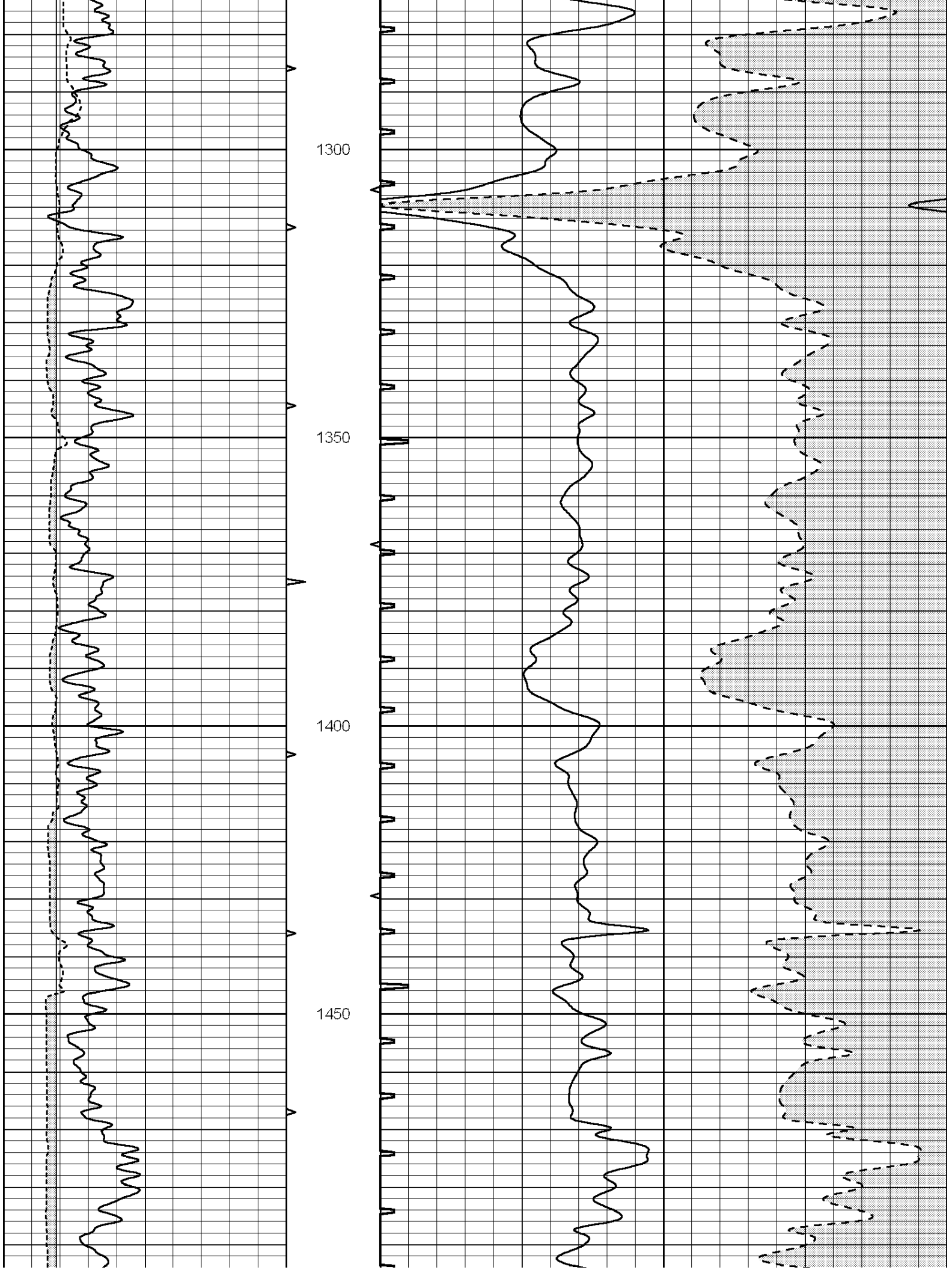


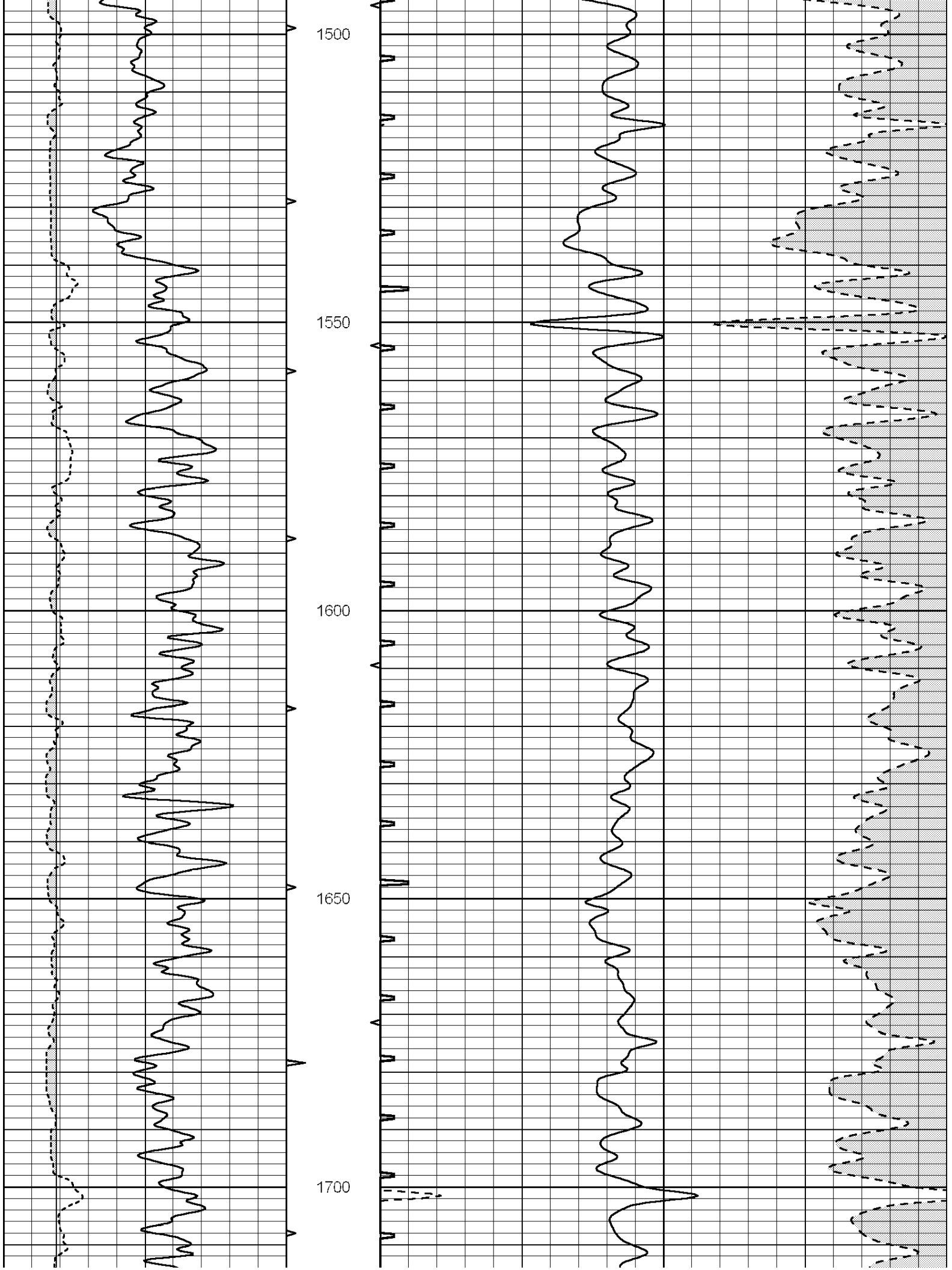

400
450
500
550
600

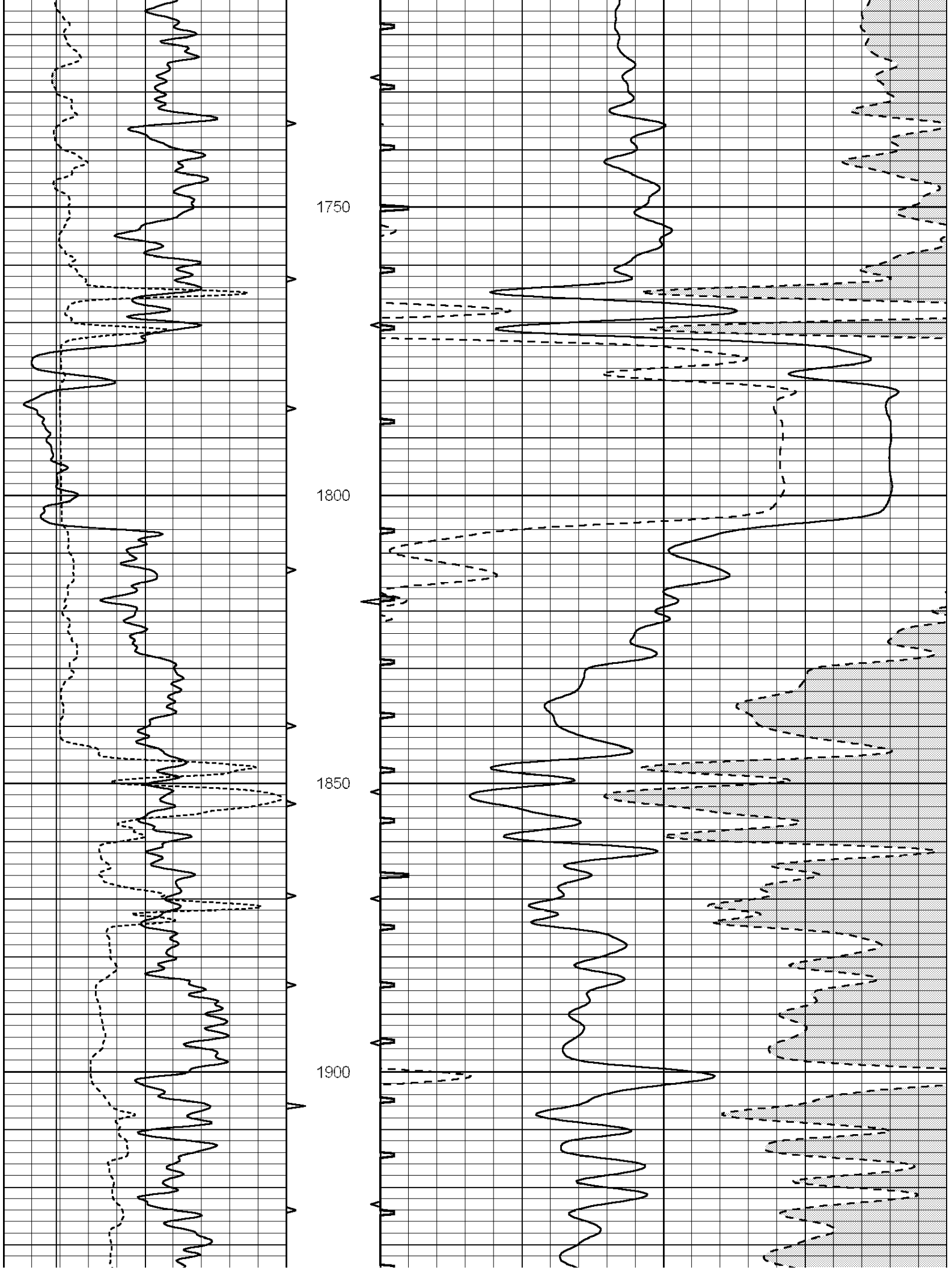

650
700
750
800

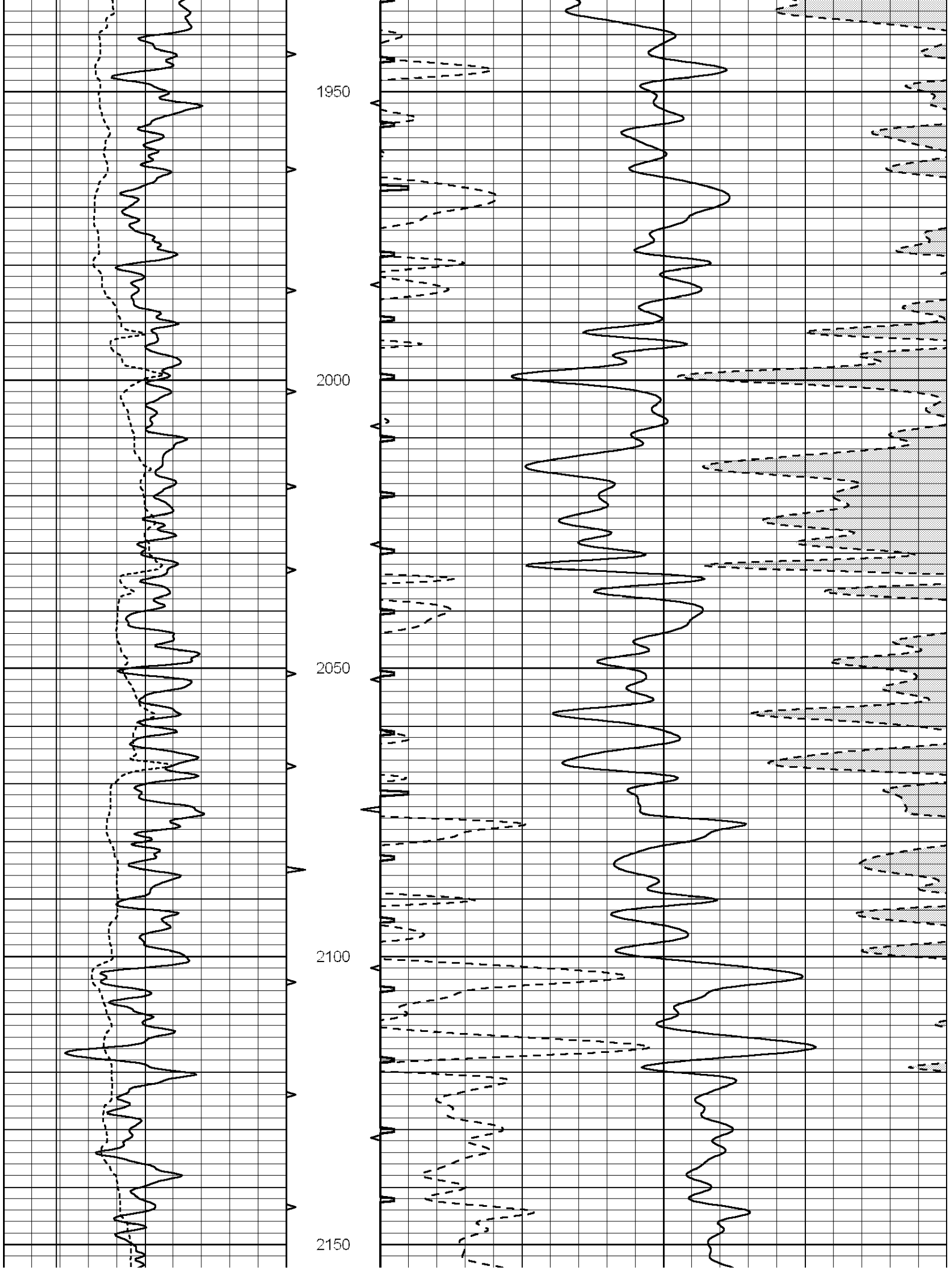

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900
950
1000
1050

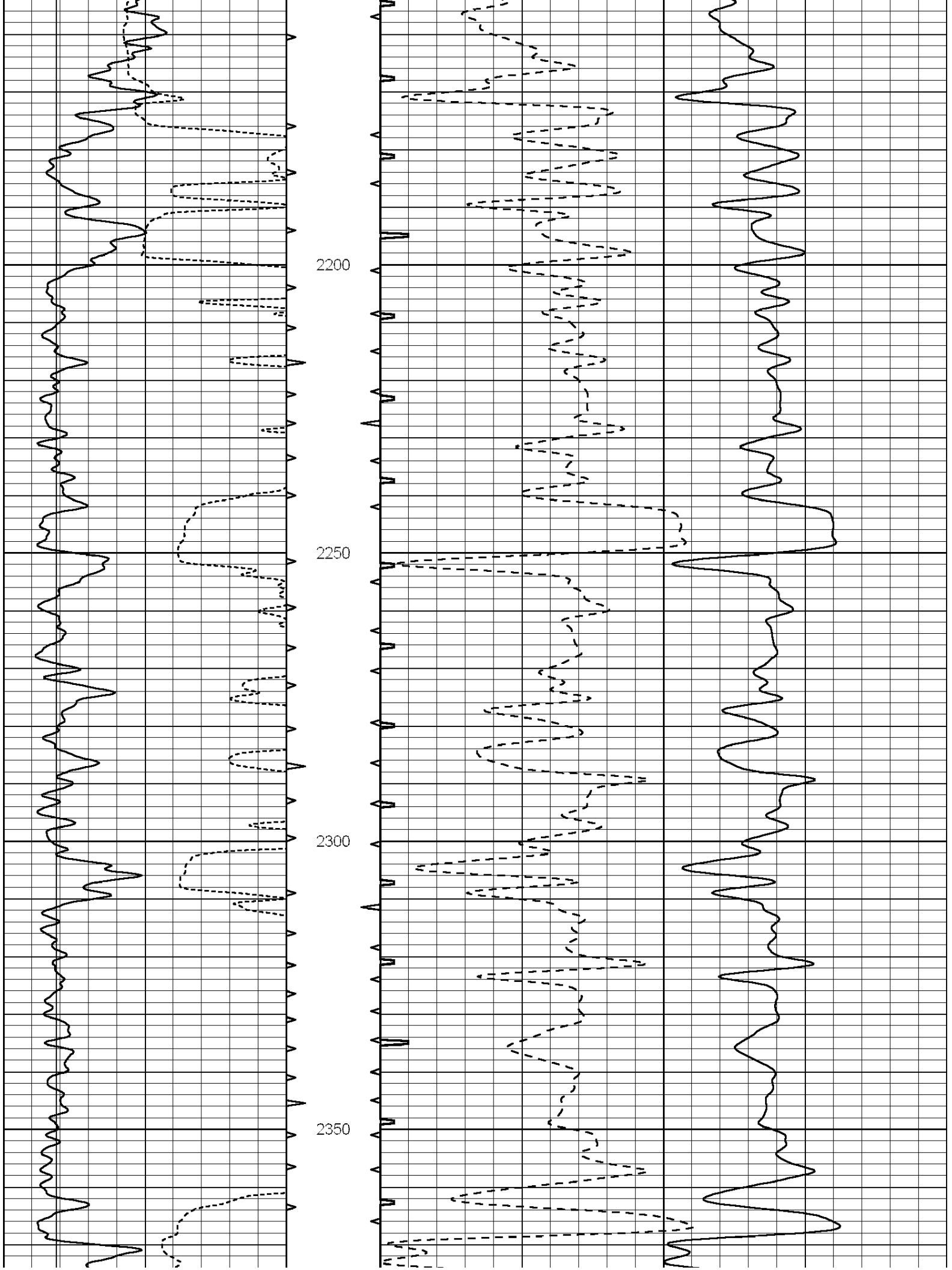

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1200
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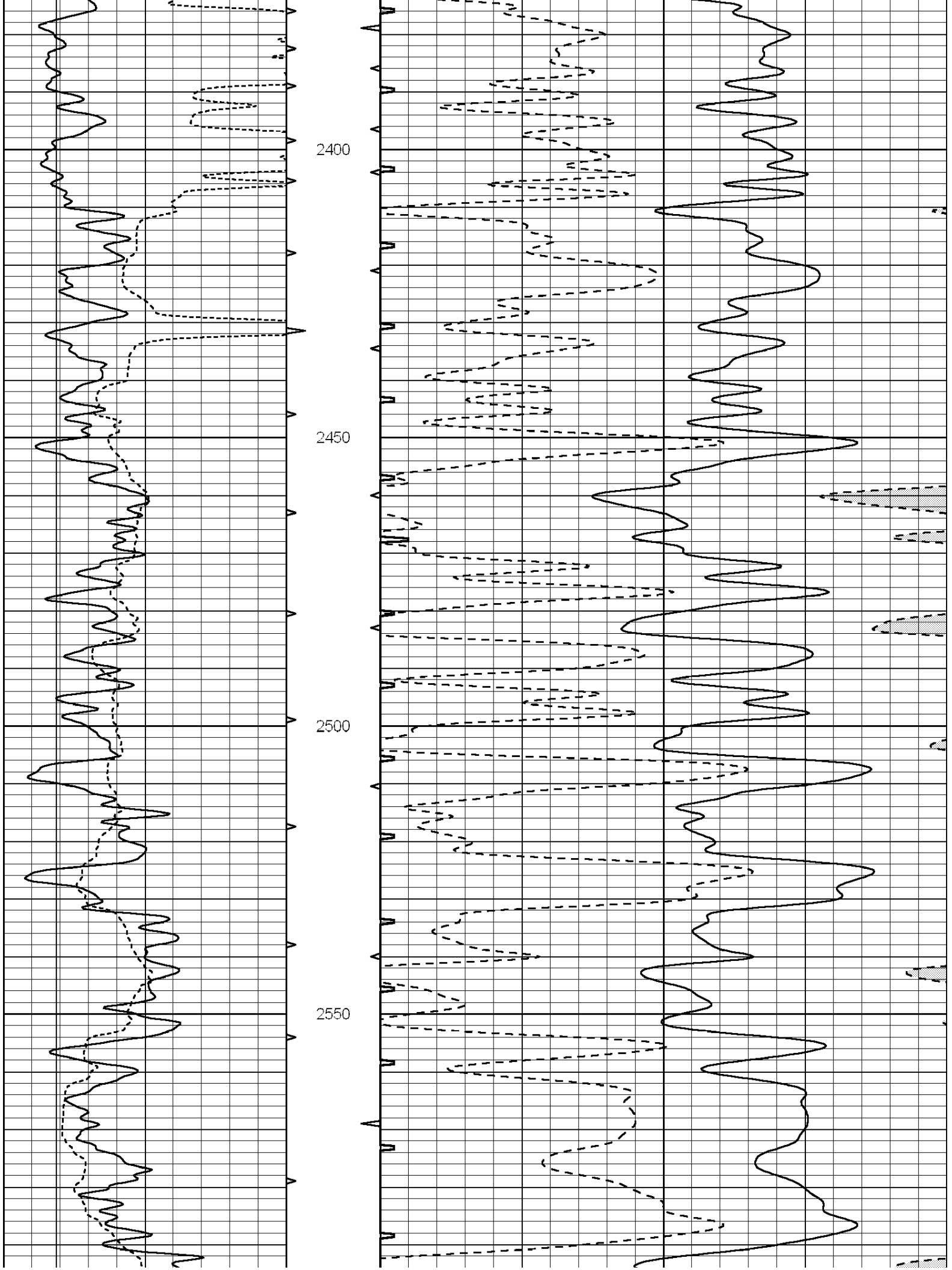

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1350
1400
1450

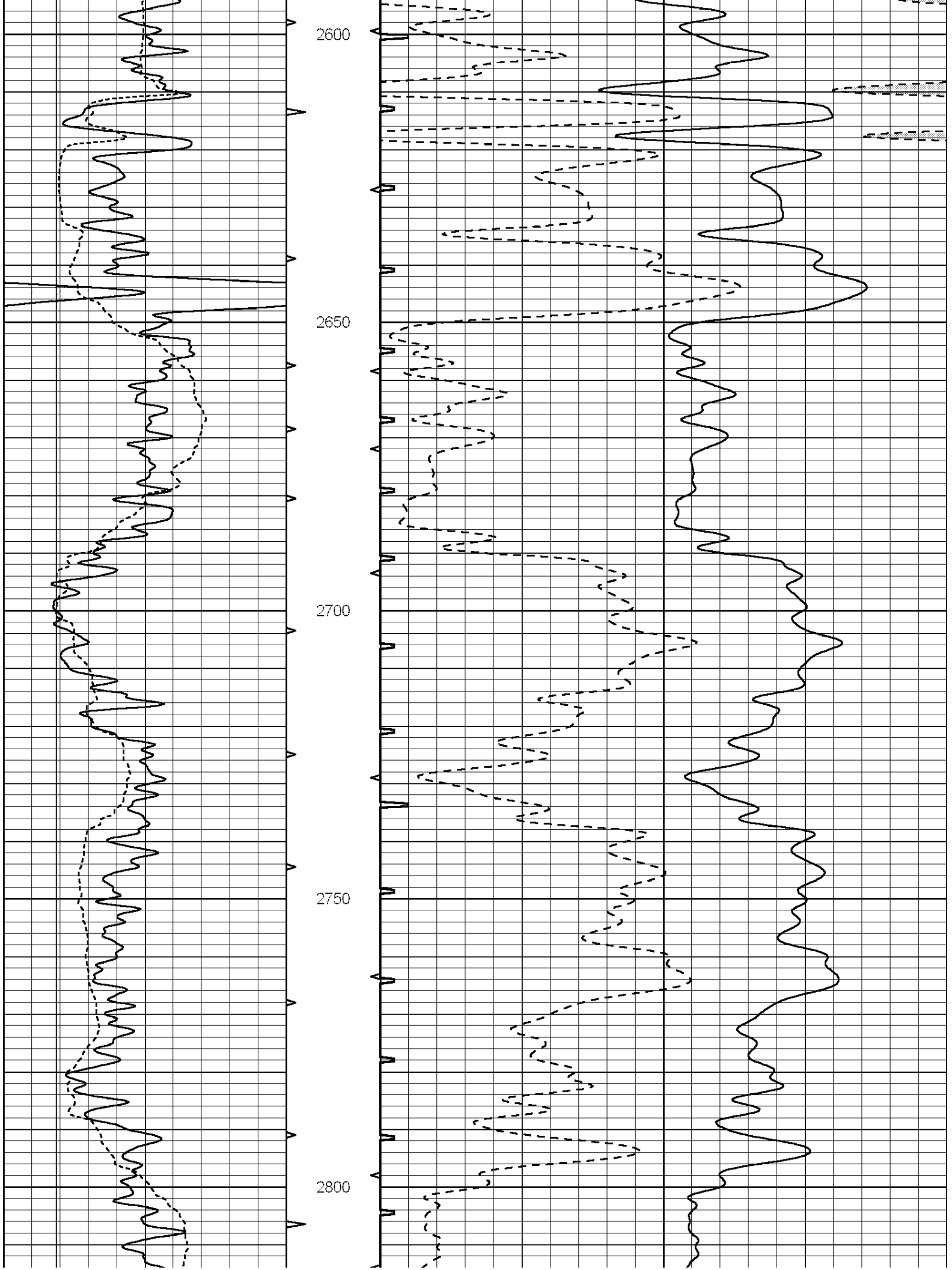

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1550
1600
1650
1700

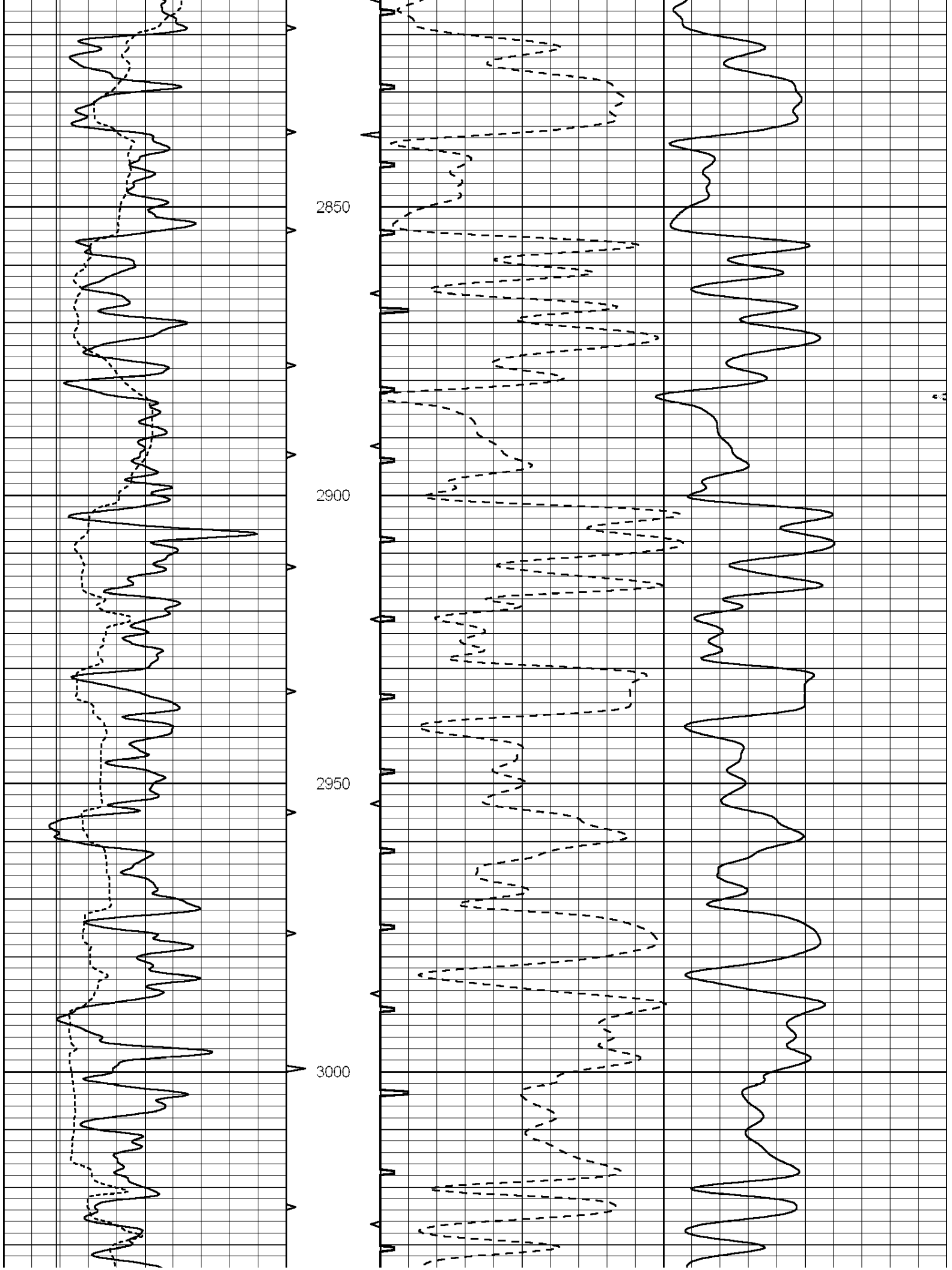

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1900

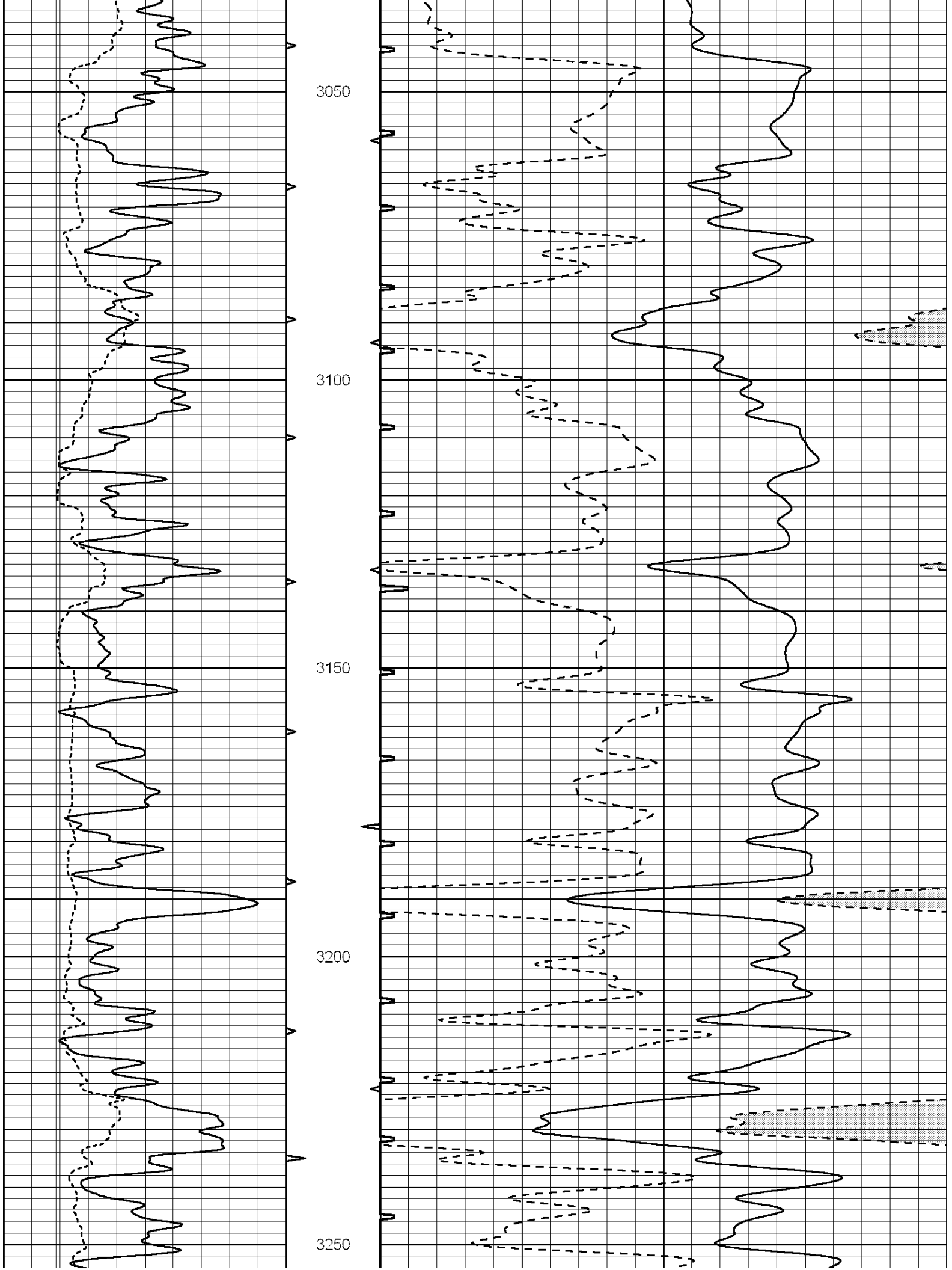

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2000
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2100
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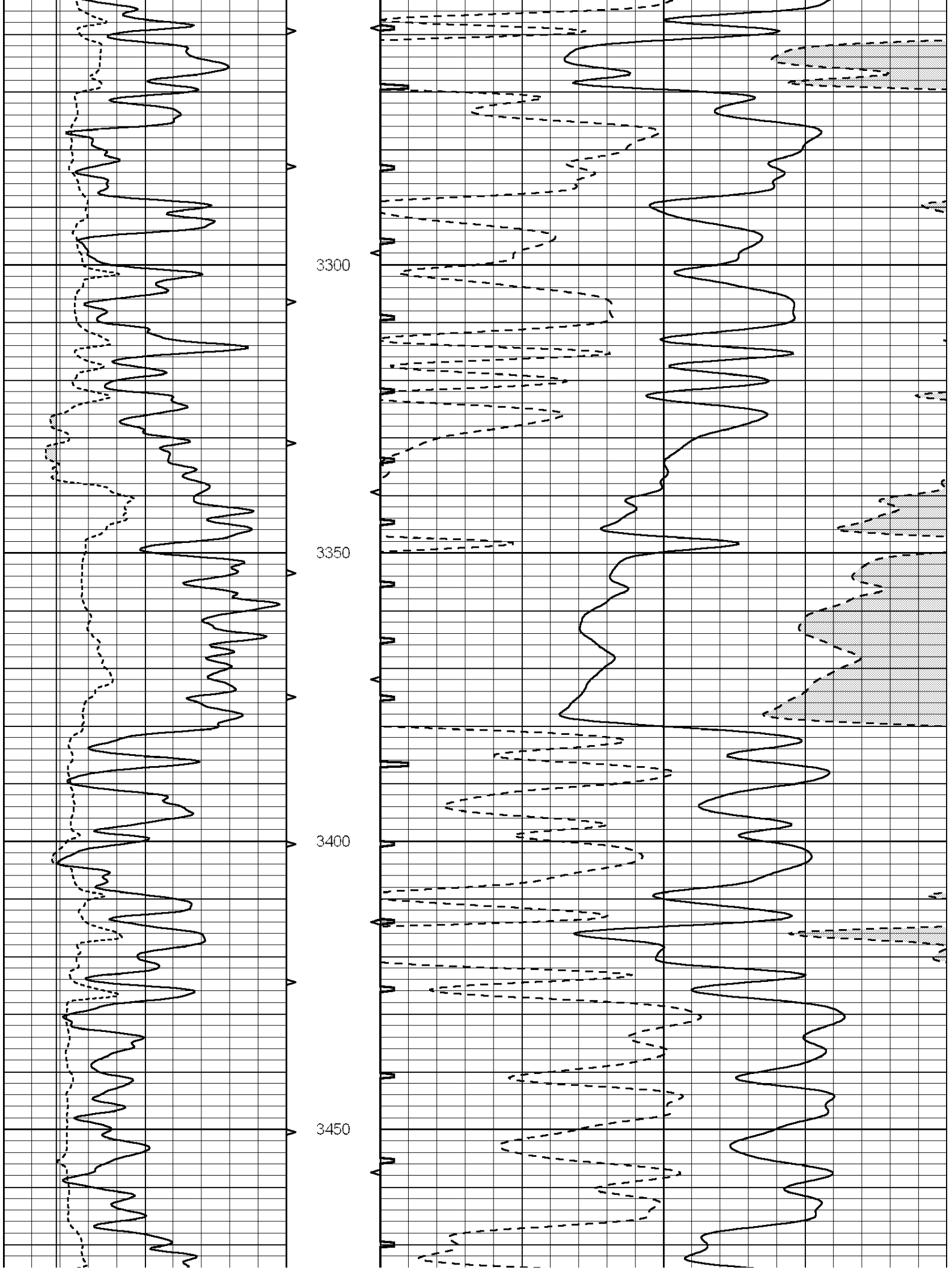

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2250
2300
2350

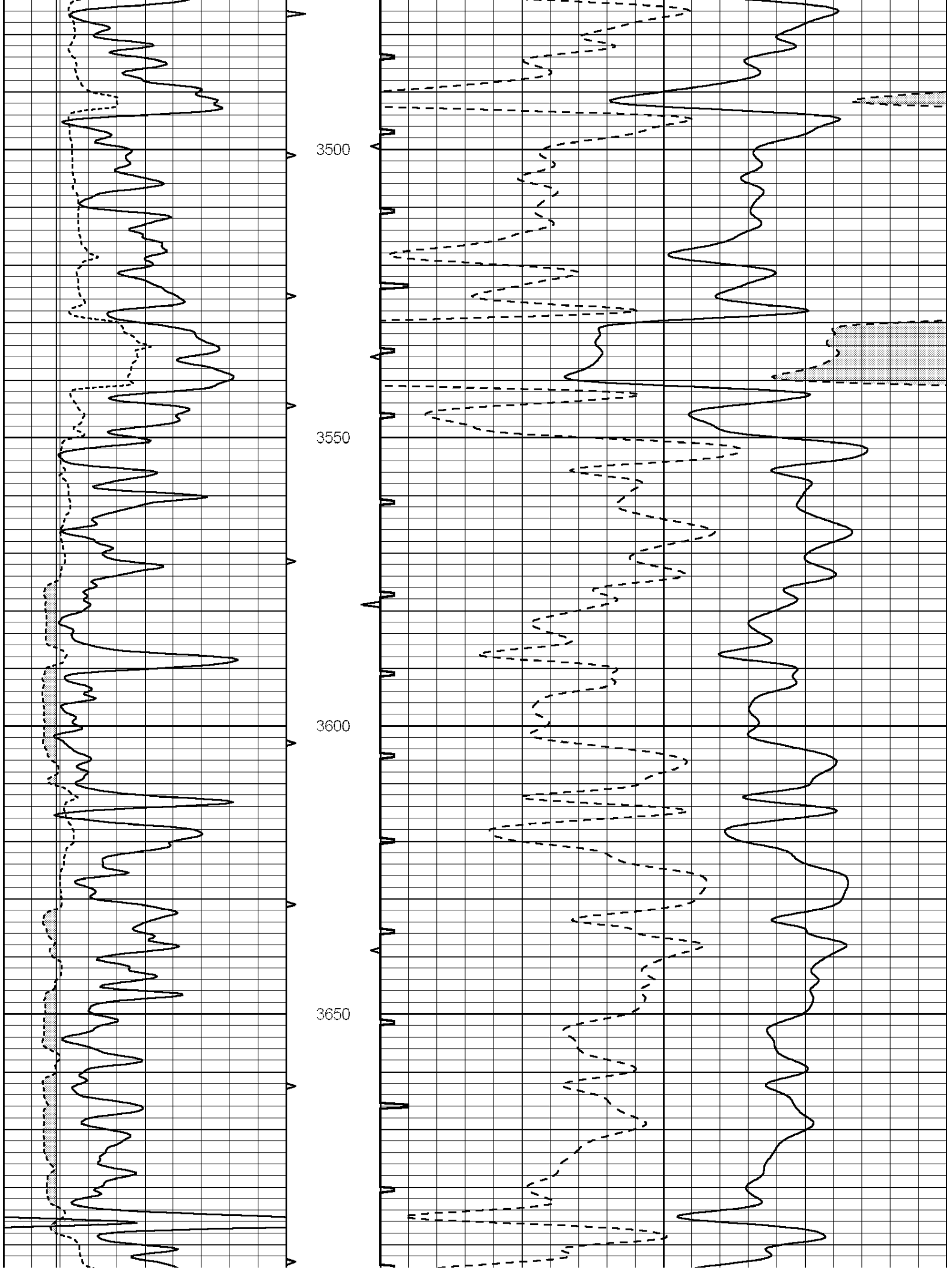

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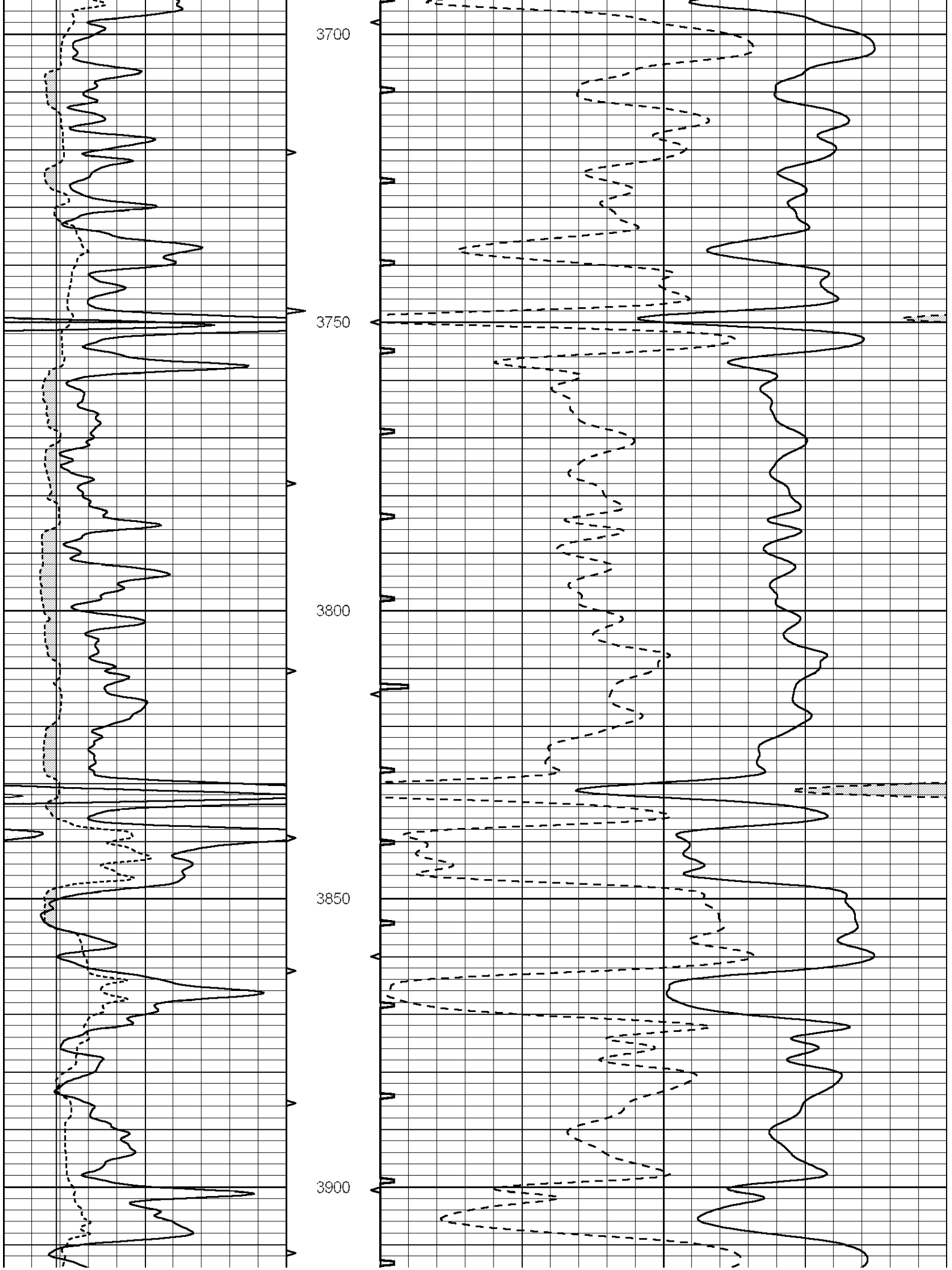

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2700
2750
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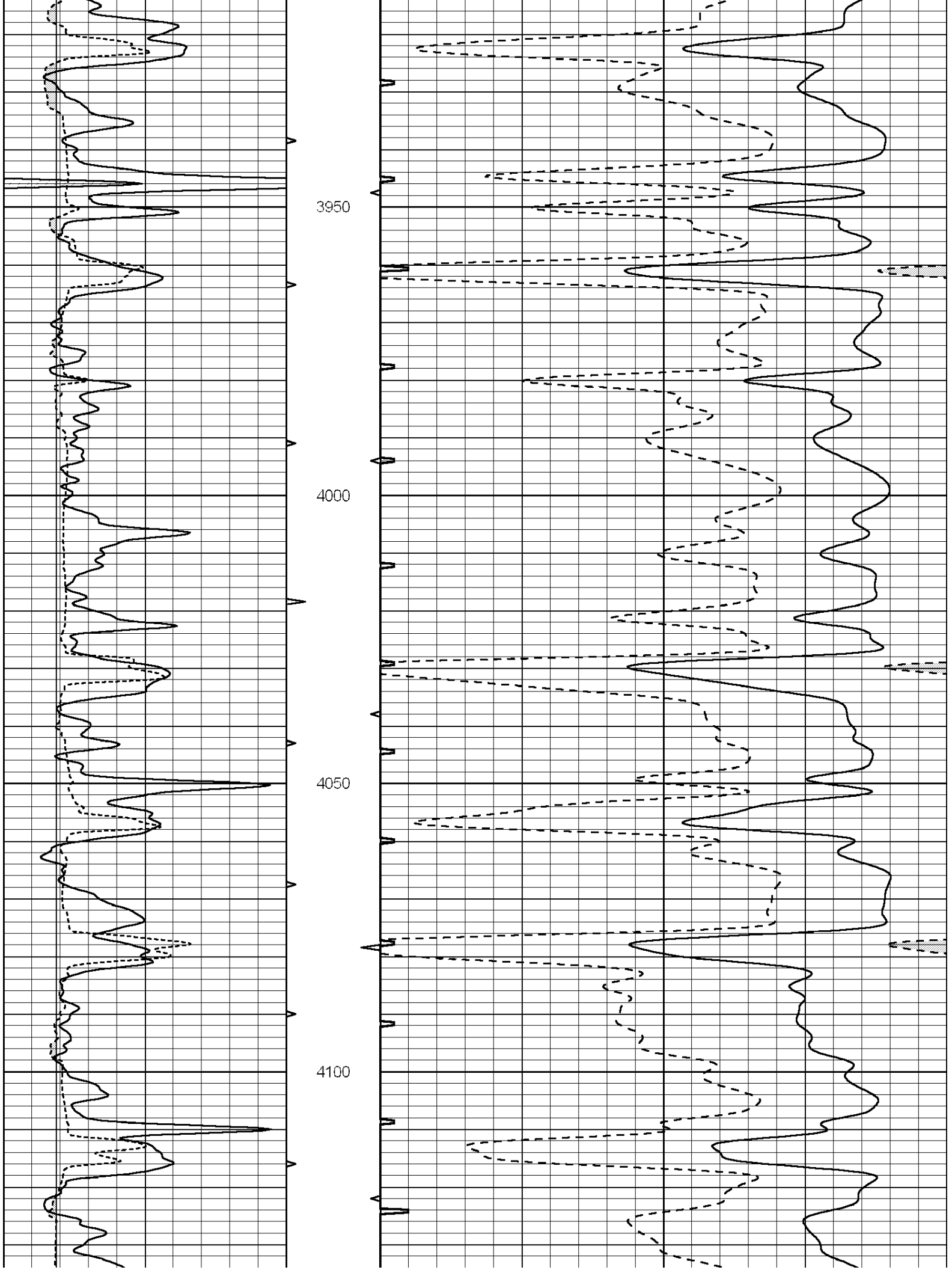

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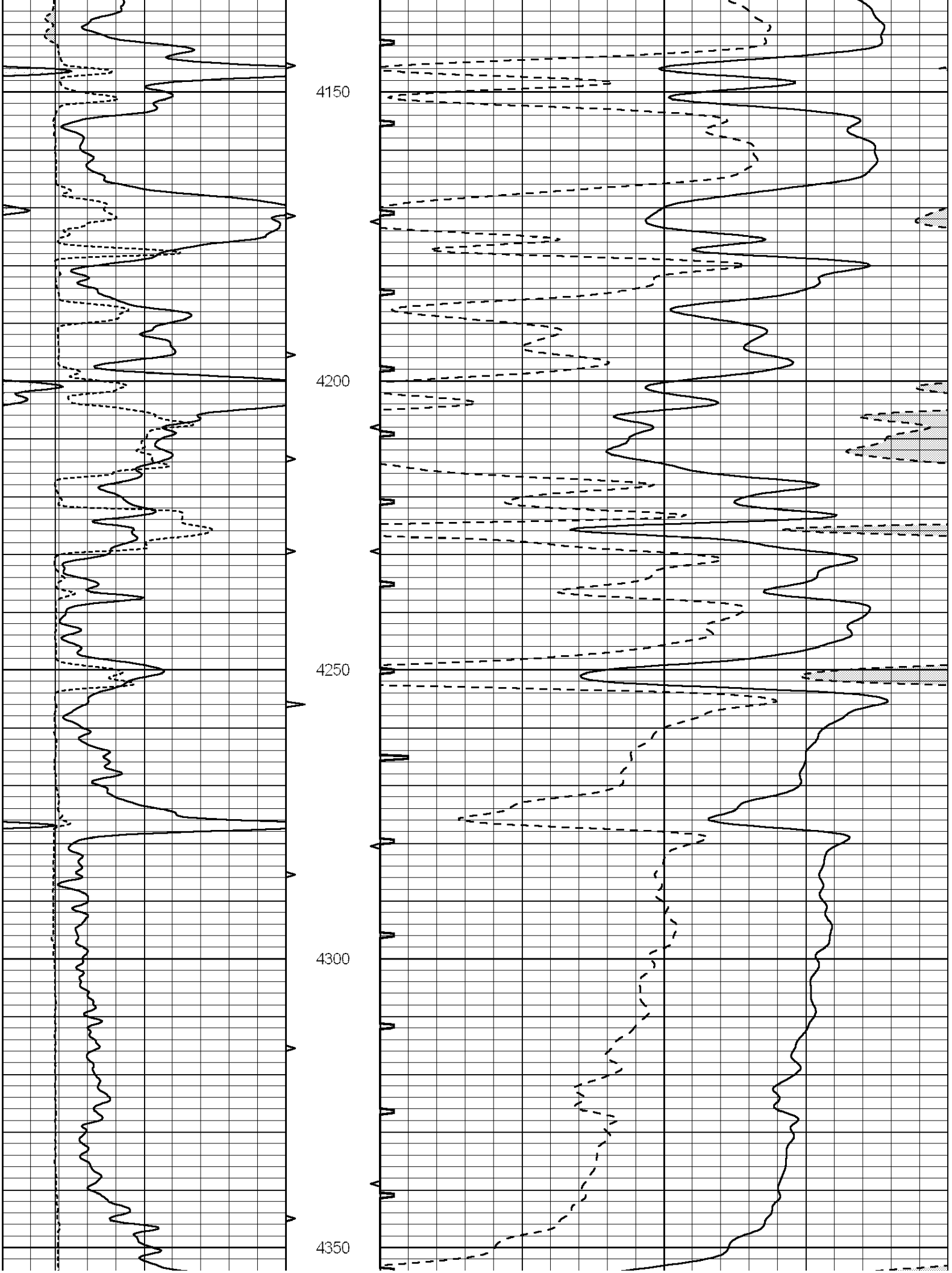

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3100
3150
3200
3250

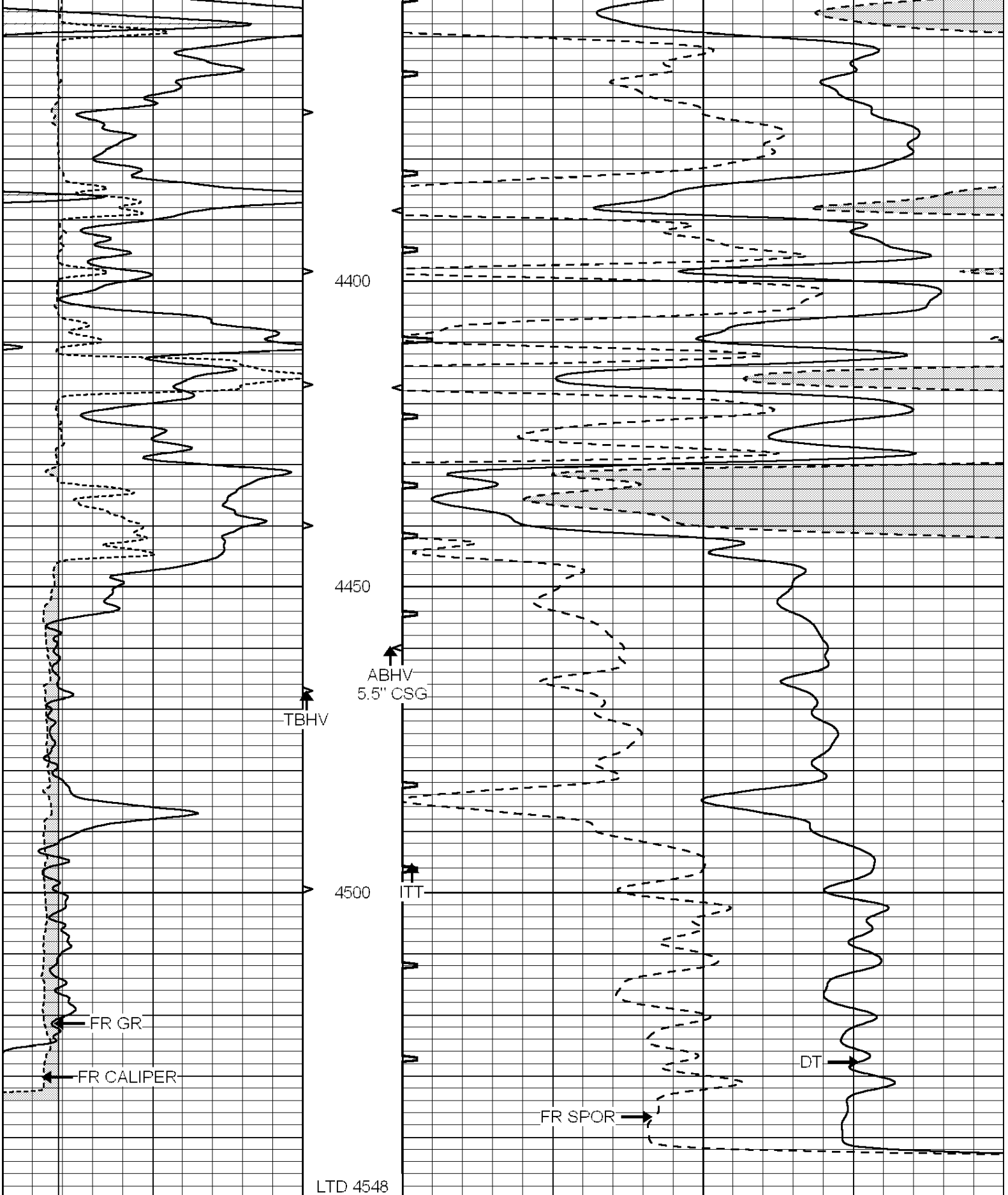

3300
3350
3400
3450


3500
3550
3600
3650


3700
3750
3800
3850
3900


3950
4000
4050
4100


4150
4200
4250
4300
4350



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		

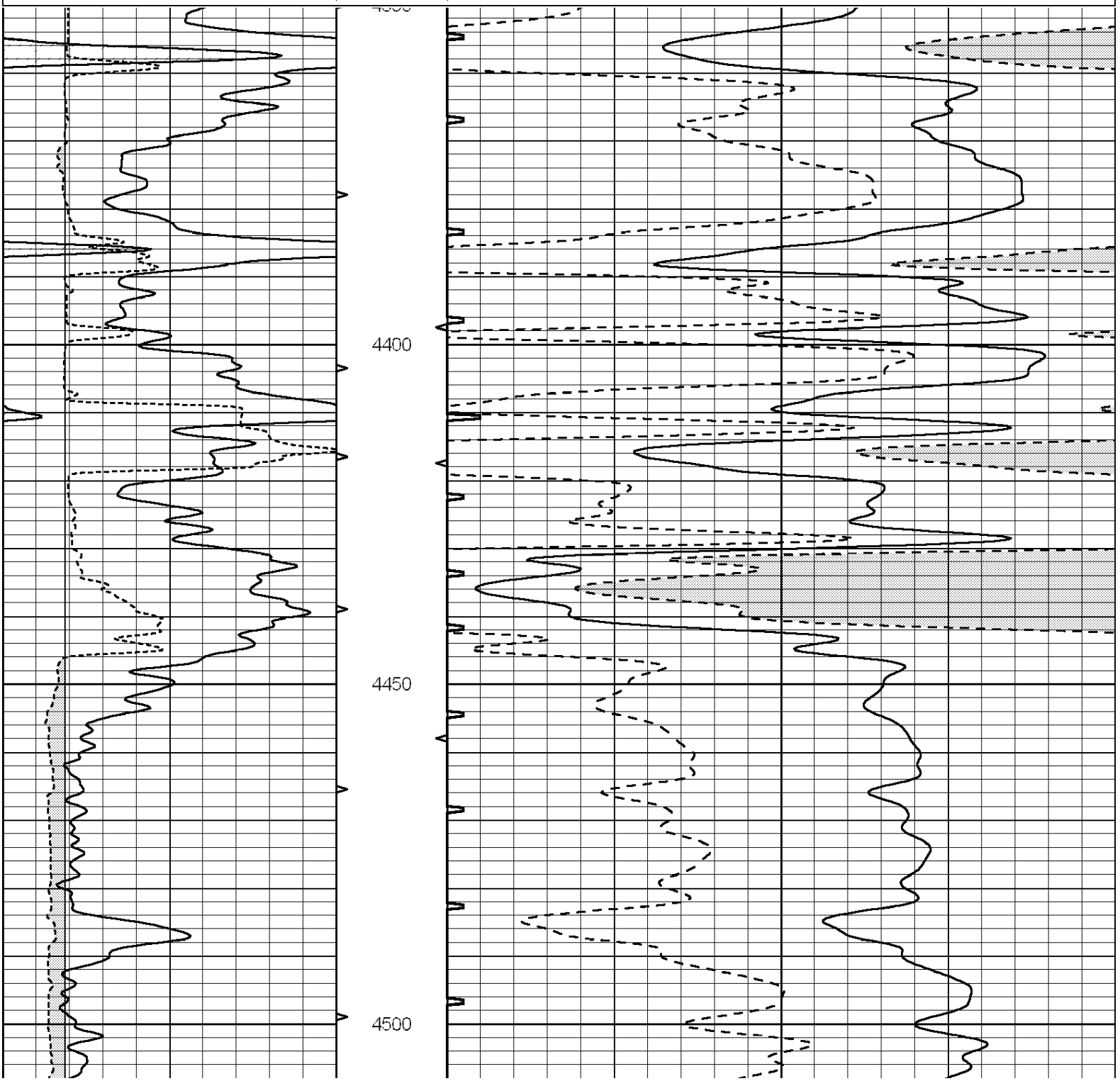
SUPERIOR
WELL SERVICES

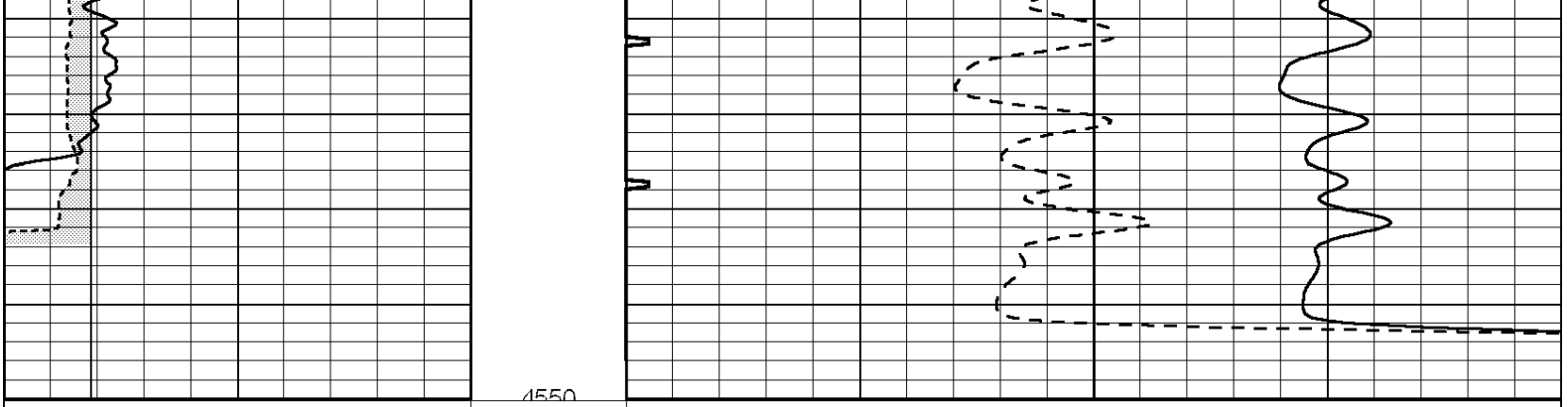
SUPERIOR
Hays,
Kansas

REPEAT SECTION

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Charted by:	Depth in Feet scaled 1:240

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			TBHV	0	ITT (msec) 20
			0 (ft3) 10		





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6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu) -10
			TBHV	0	ITT (msec) 20
			0 (ft3) 10		