NABORS COMPLETION & PRODUCTION SERVICES CO.

SONIC LOG

Company L. D. DRILLING, INC.
Well #2-16 FLORINE
Field LAUD WEST
County BARTON
State KANSAS

Company L.D. DRILLING, INC.
Well #2-16 FLORINE
Field LAUD WEST
County BARTON State KANSAS
Location: API # : 15-009-25893-00-00
968' FSL & 1442' FEL
NE - SW - SE
SEC 16 TWP 18S RGE 14W

Permanent Datum GROUND LEVEL Elevation 1933
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CNL/CDL
DIL/MEL

Elevation
K.B. 1938
D.F. 1936
G.L. 1933

Date	11/8/13		
Run Number	TWO		
Depth Driller	3550		
Depth Logger	3552		
Bottom Logged Interval	3542		
Top Log Interval	850		
Casing Driller	8 5/8" @ 897'		
Casing Logger	900		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4,000 PPM	
Density / Viscosity	9.1/54		
pH / Fluid Loss	9.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.80 @ 80F		
Rmf @ Meas. Temp	0.60 @ 80F		
Rmc @ Meas. Temp	0.96 @ 80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	0.57 @ 112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	111F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	IAN MABB		
Witnessed By	KIM SHOEMAKER		

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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.

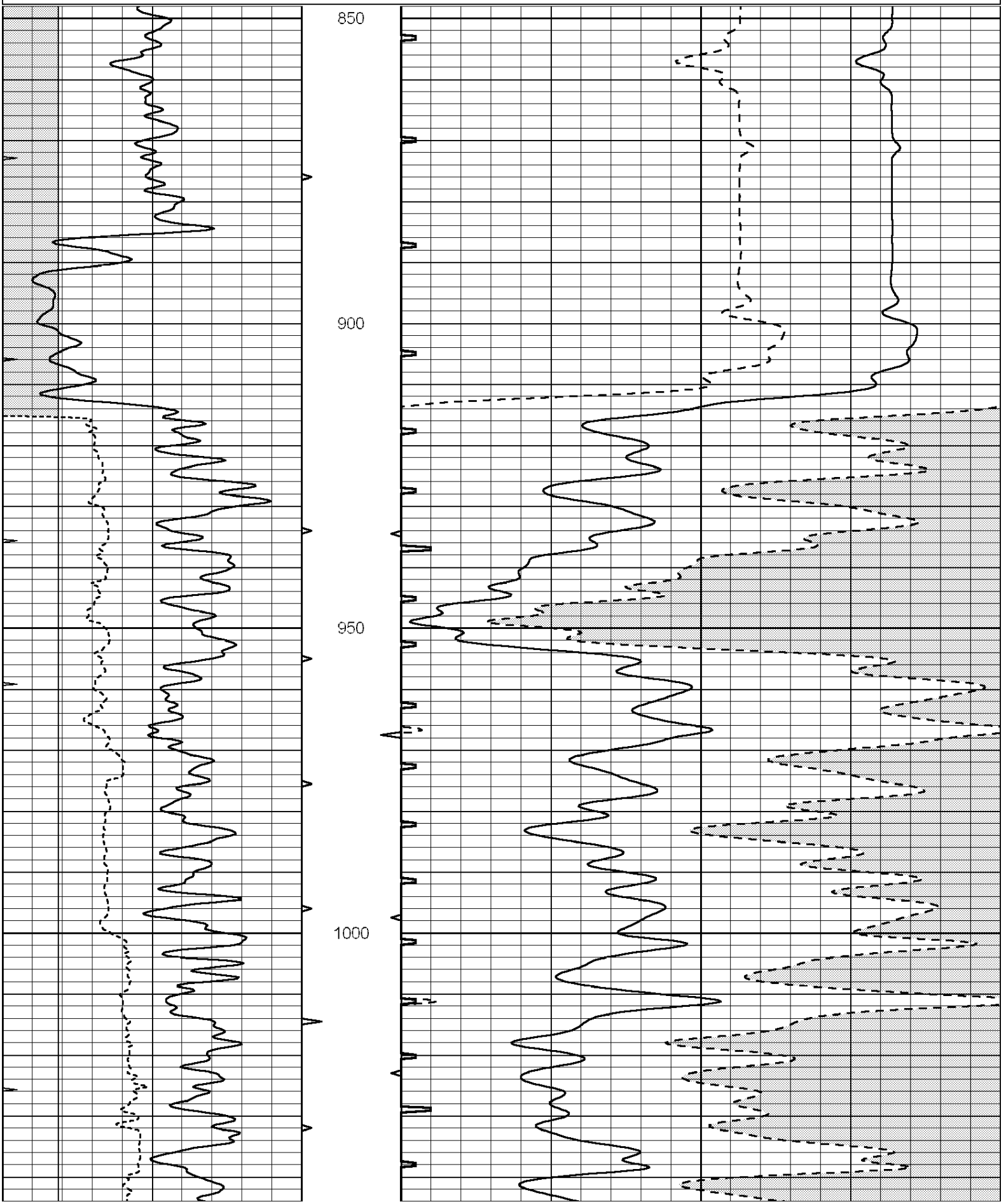
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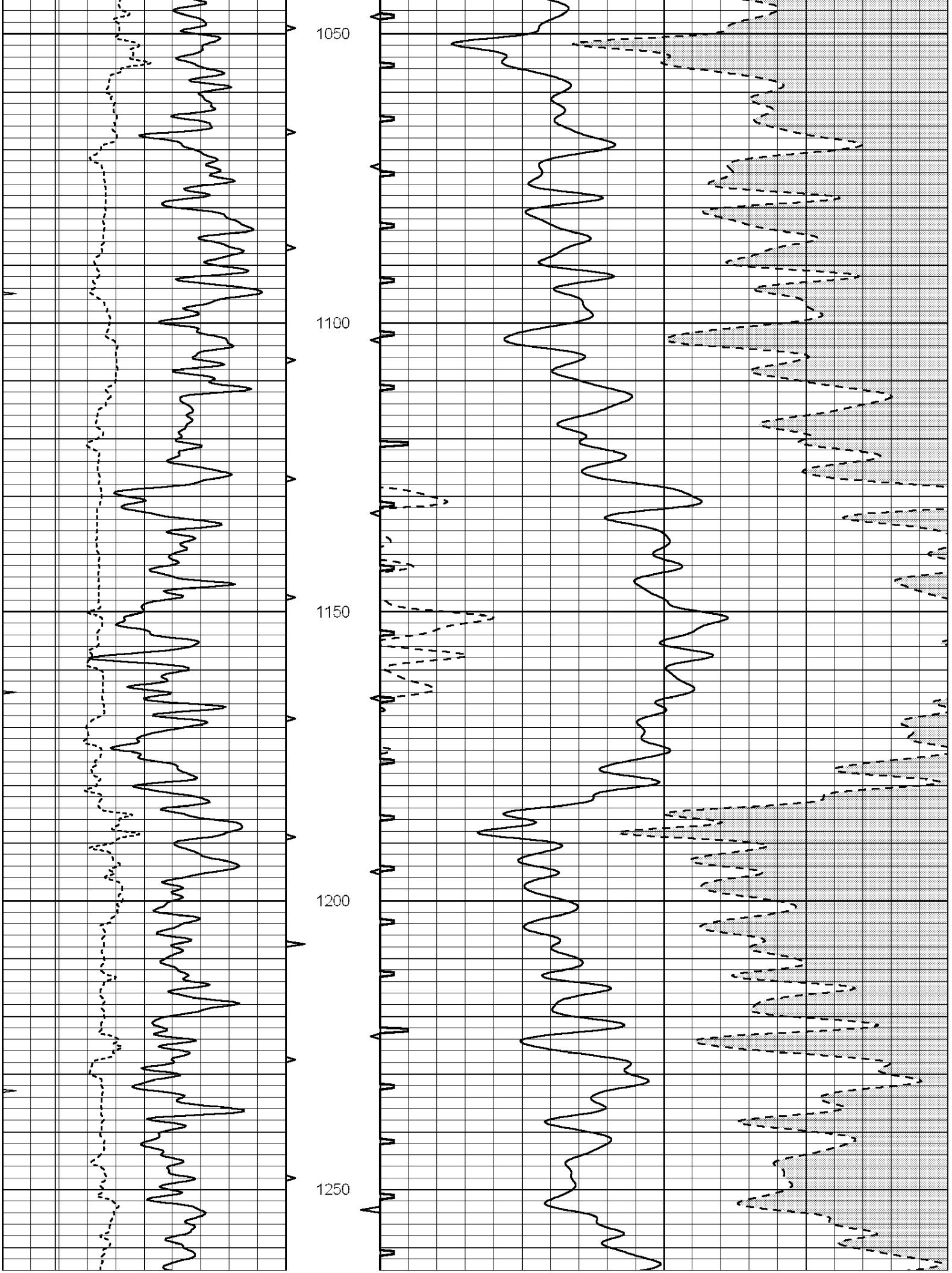
THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:
HOISINGTON, KS. - WEST TO HWY 4 & 281 JCT. - 4 MILES SOUTH TO RD. 80 - 1 1/4 MILES WEST - NORTH INTO

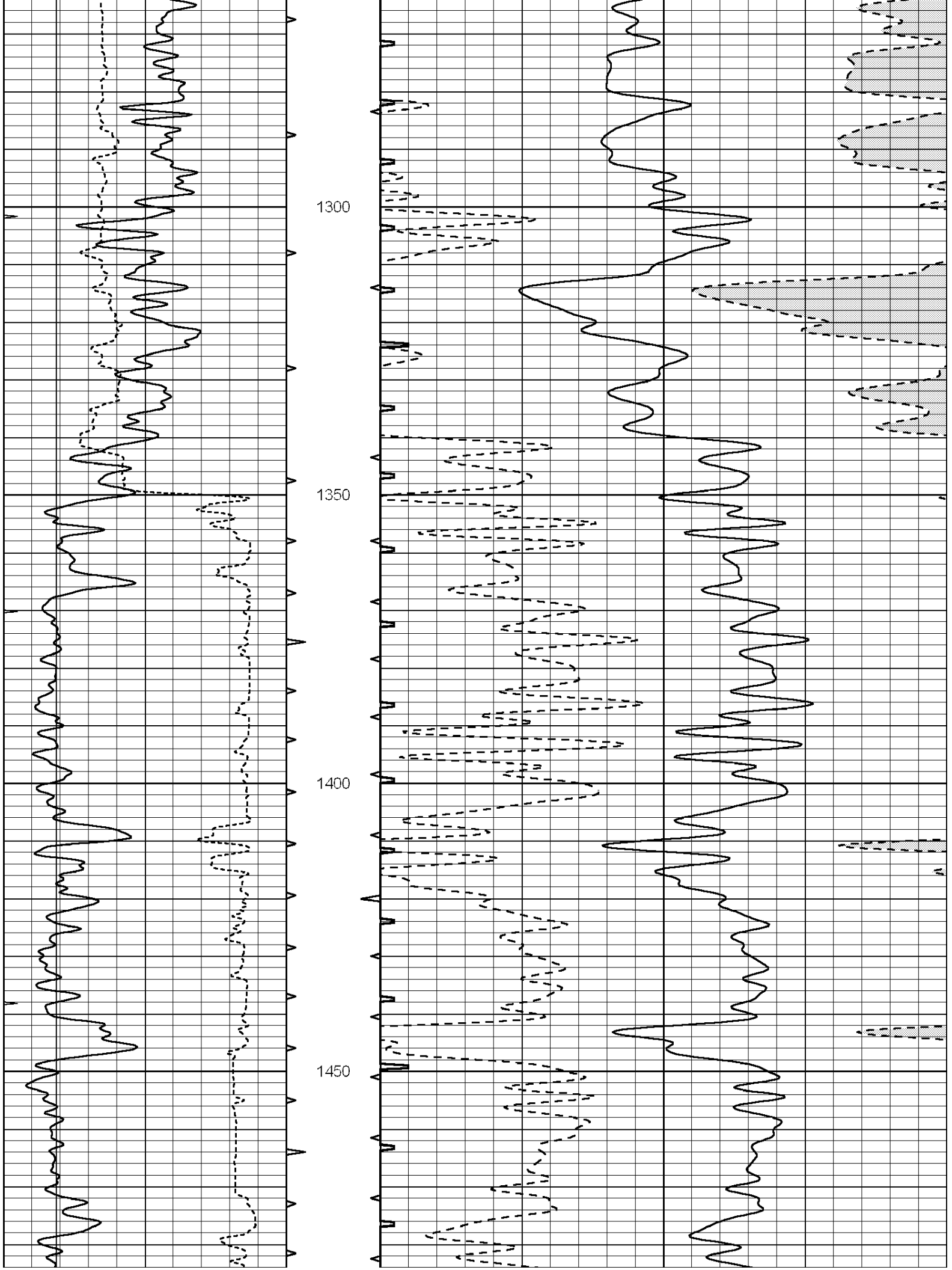
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Charted by: Depth in Feet scaled 1:240

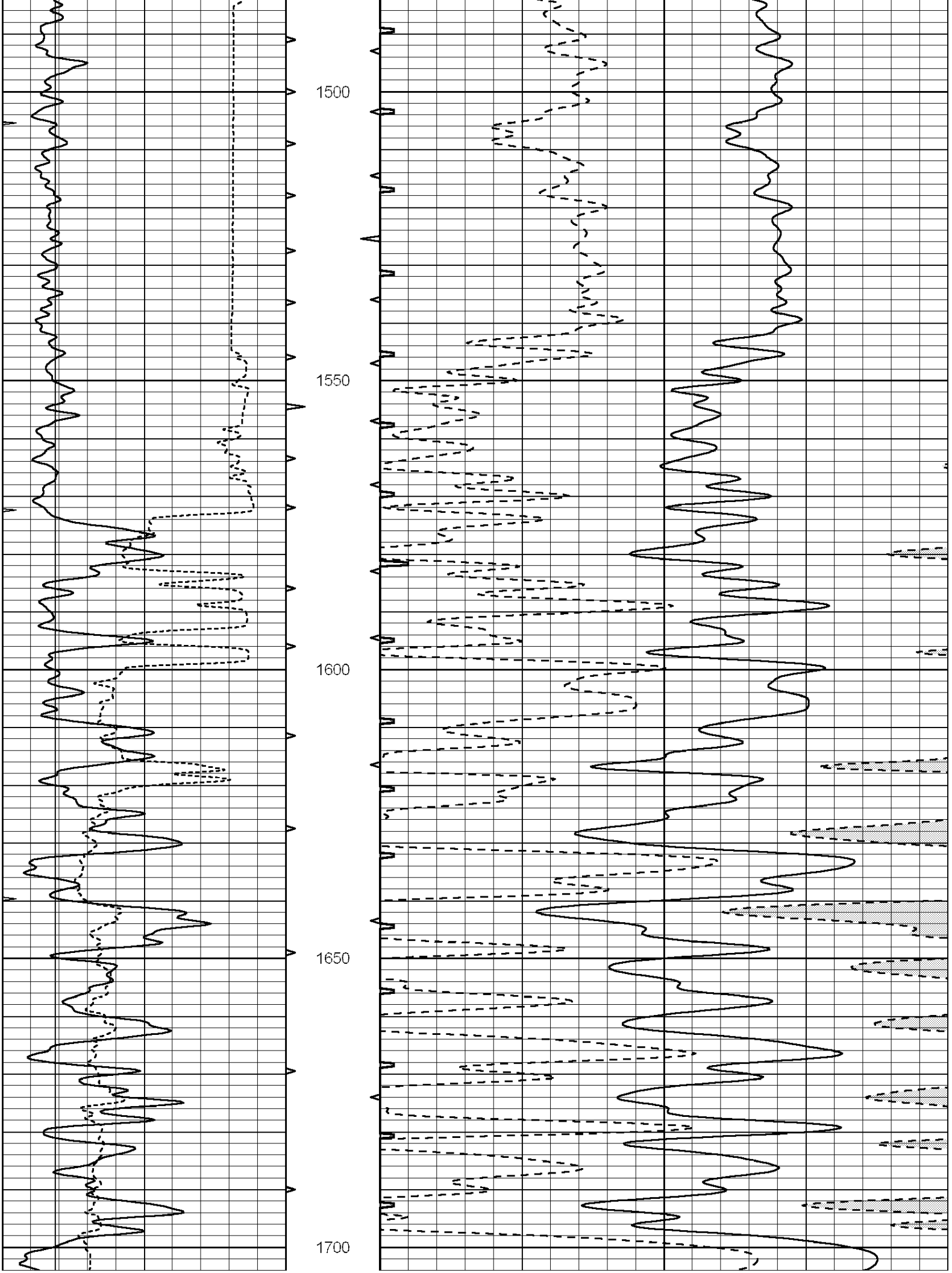
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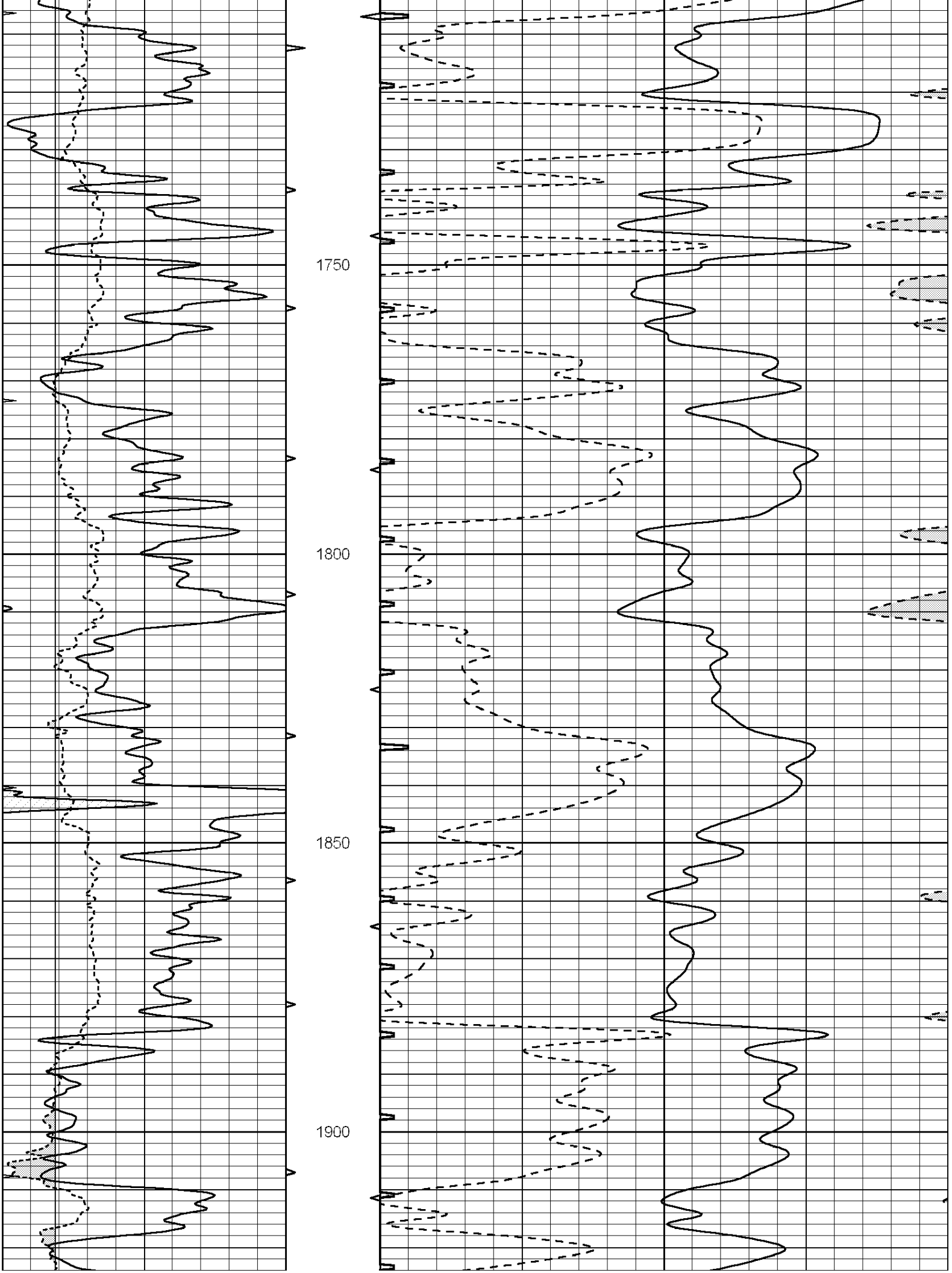
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6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu) -10
0	MINMK	20	TBHV	0	ITT (msec) 20
			0 (ft3) 10		

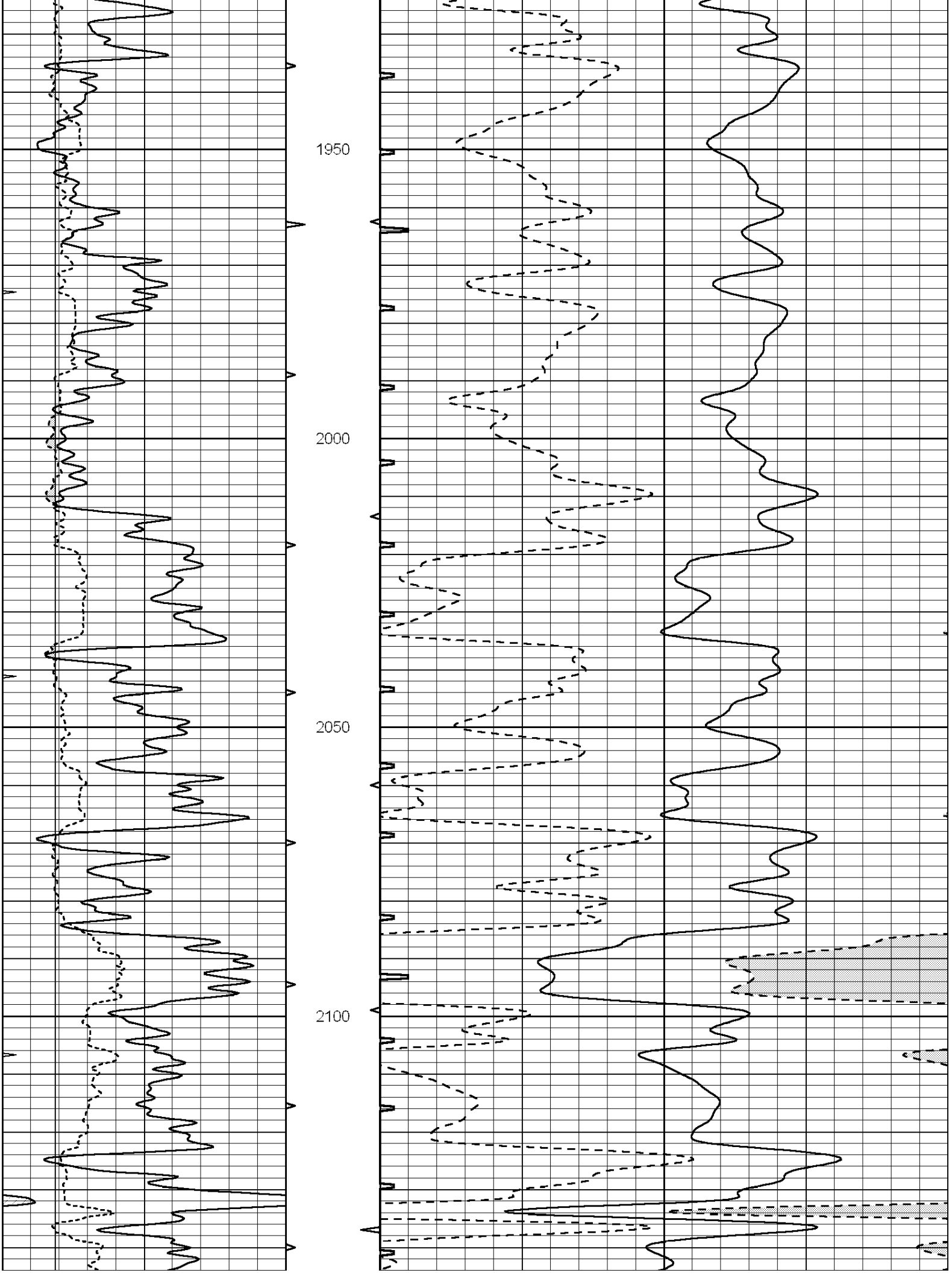


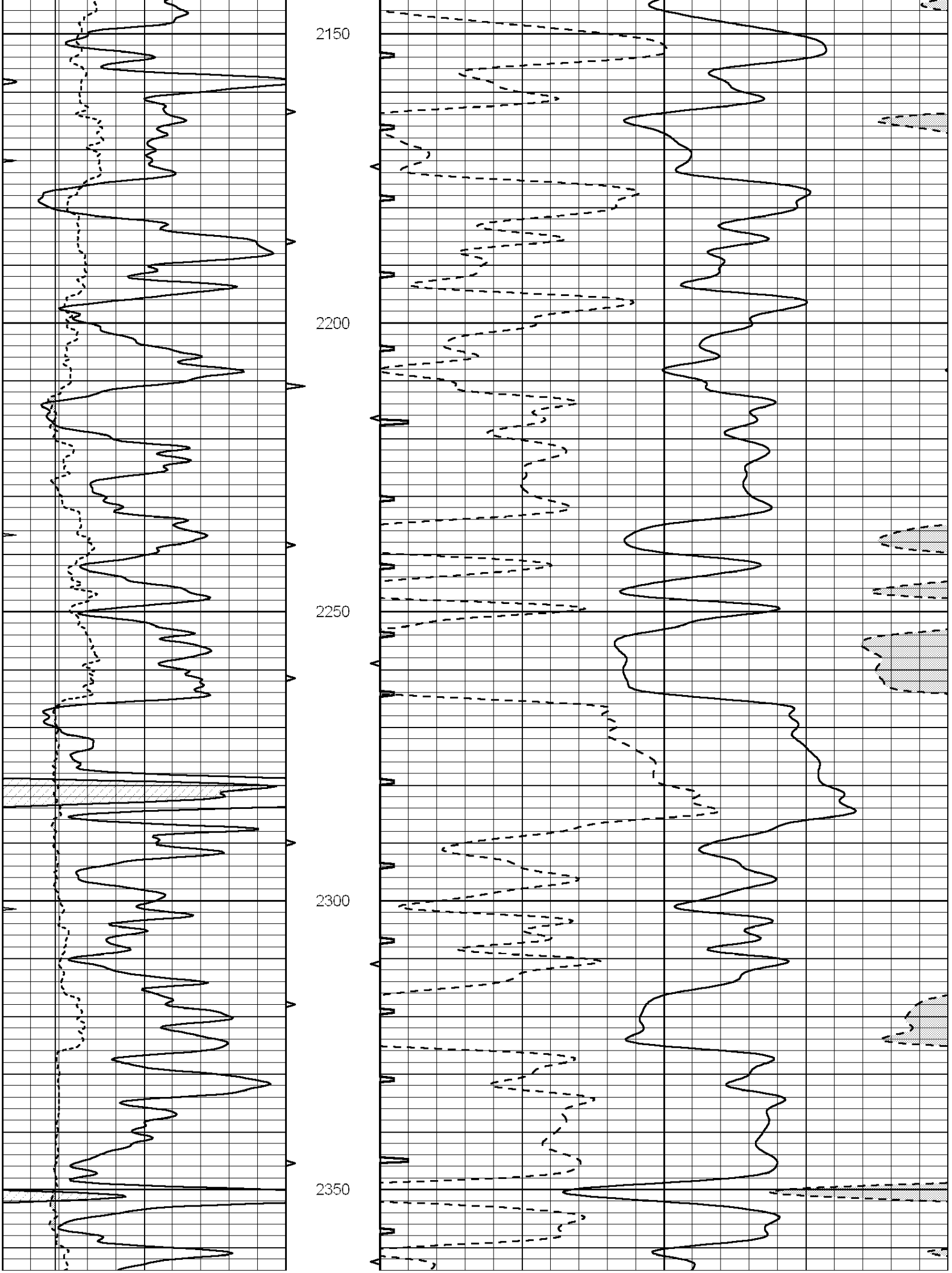

1050
1100
1150
1200
1250

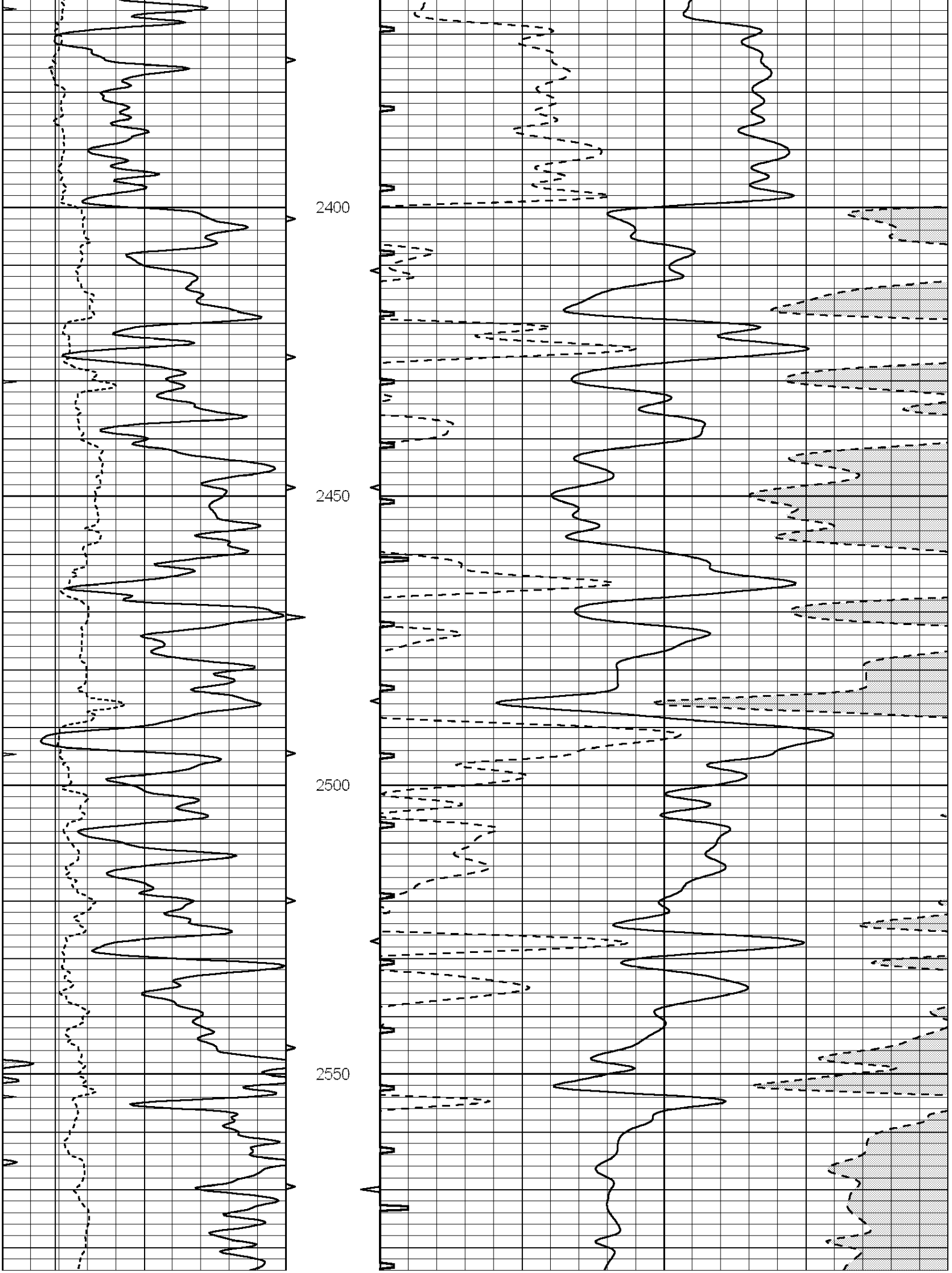

1300
1350
1400
1450

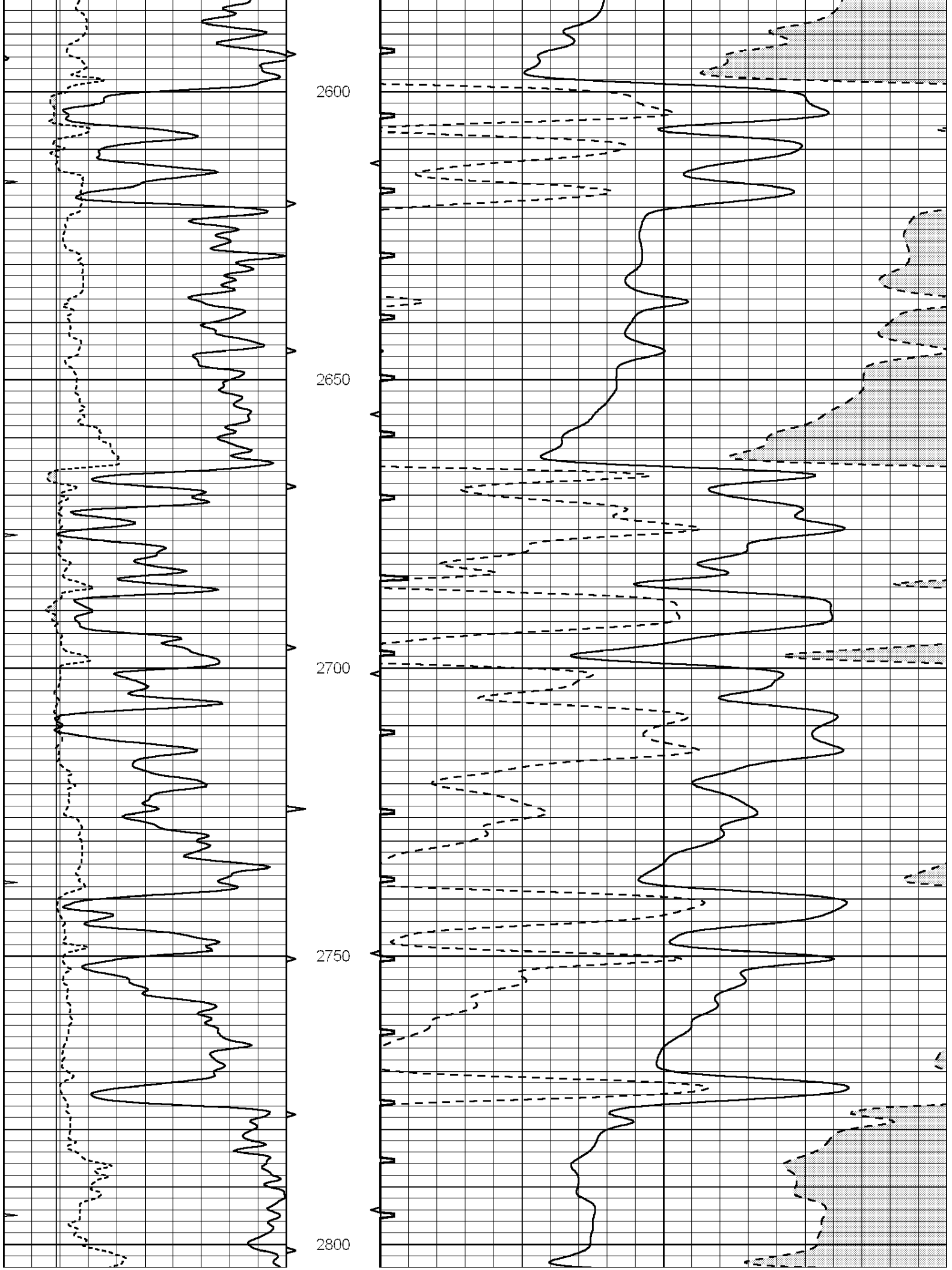

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1600
1650
1700

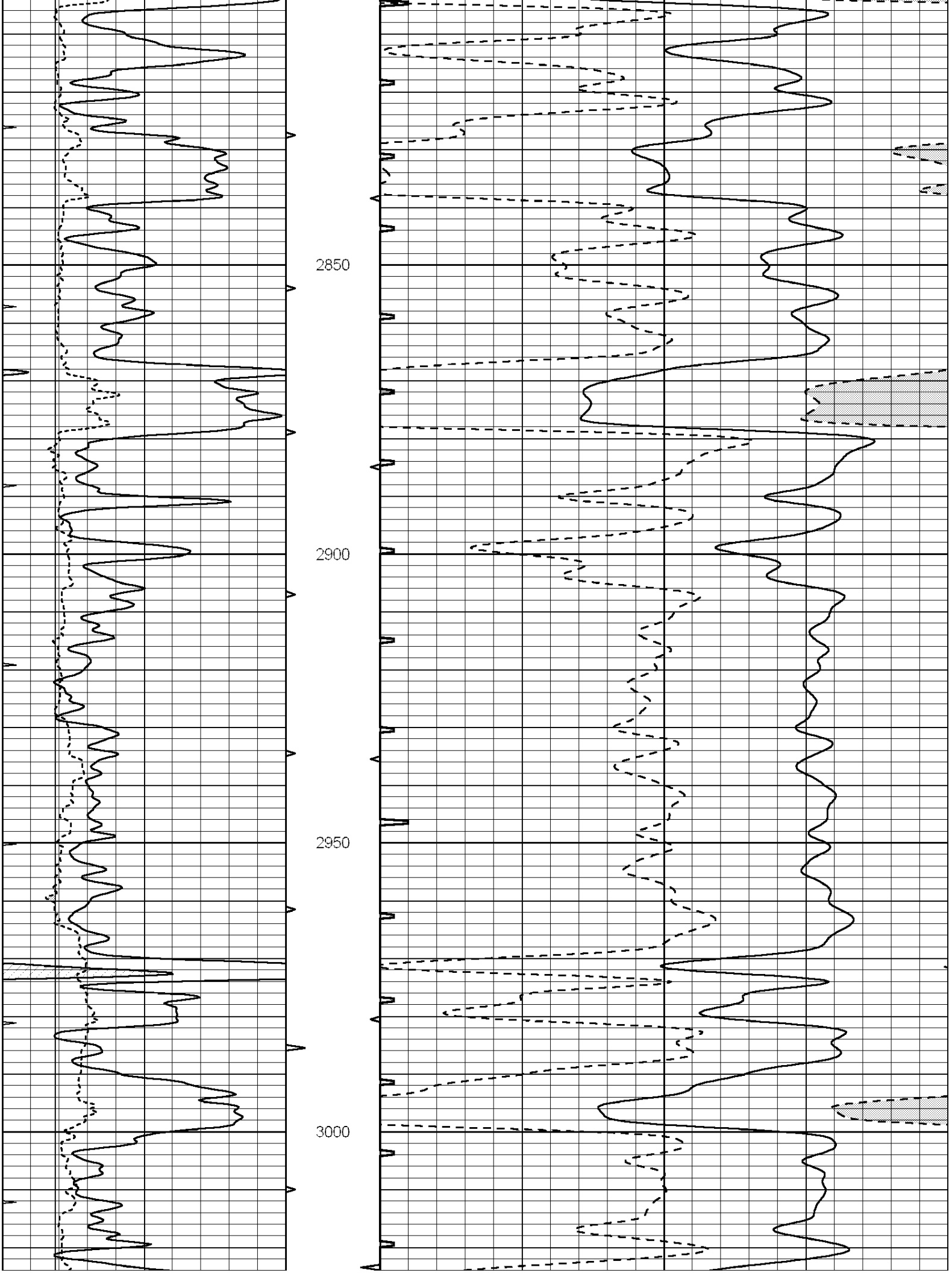

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1800
1850
1900

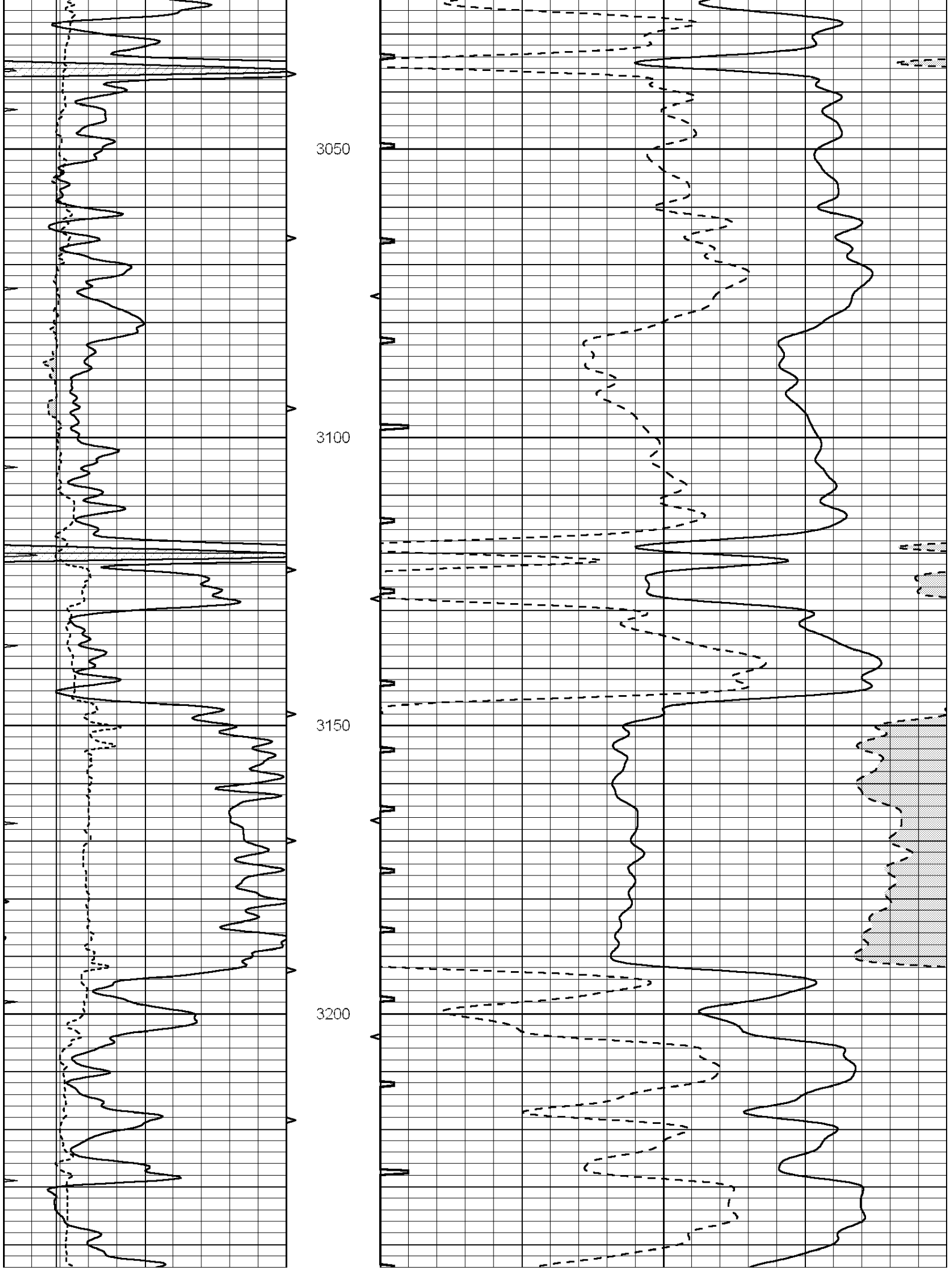

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2000
2050
2100

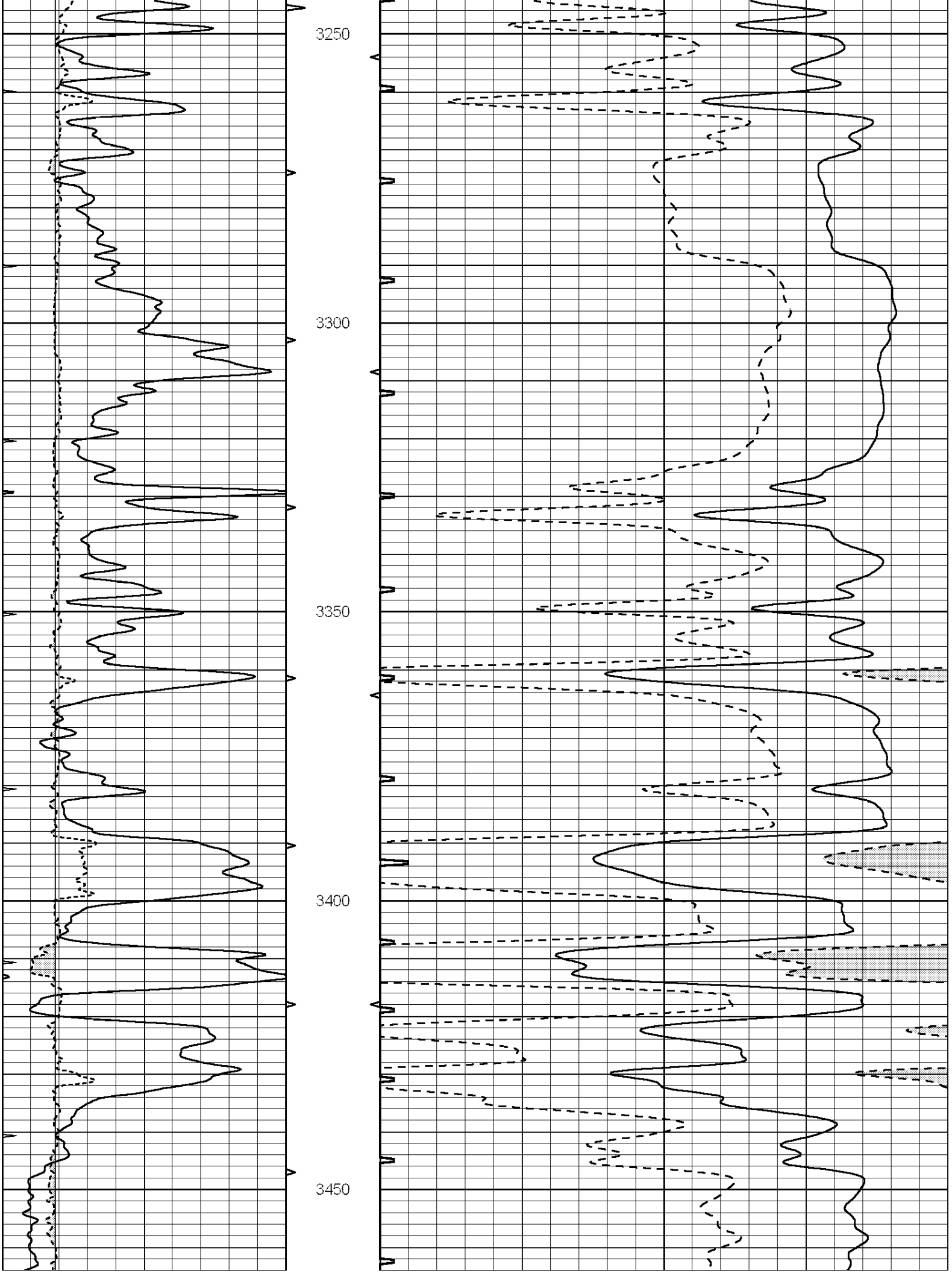

2150
2200
2250
2300
2350

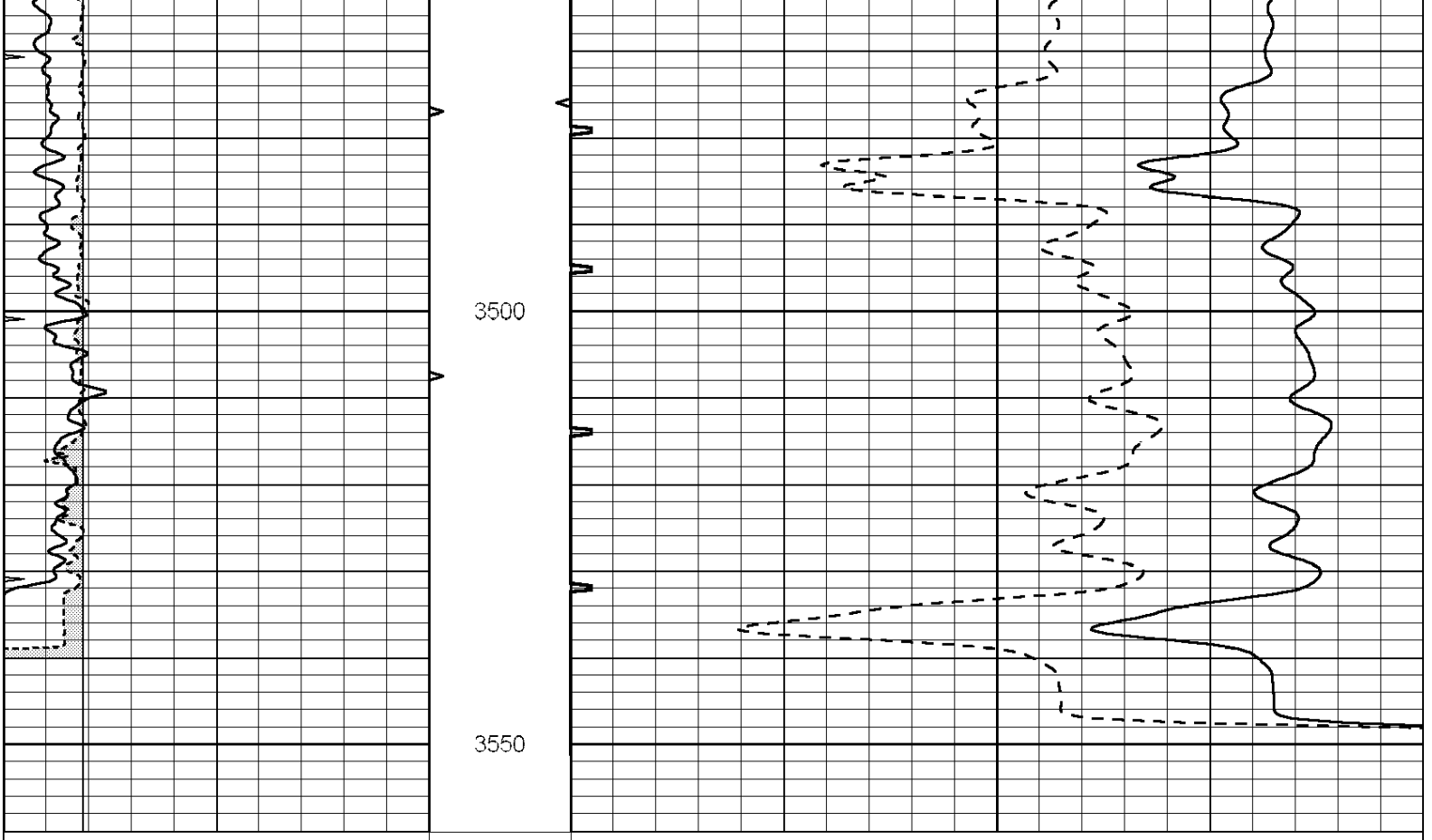

2400
2450
2500
2550


2600
2650
2700
2750
2800


2850
2900
2950
3000


3050
3100
3150
3200


3250
3300
3350
3400
3450



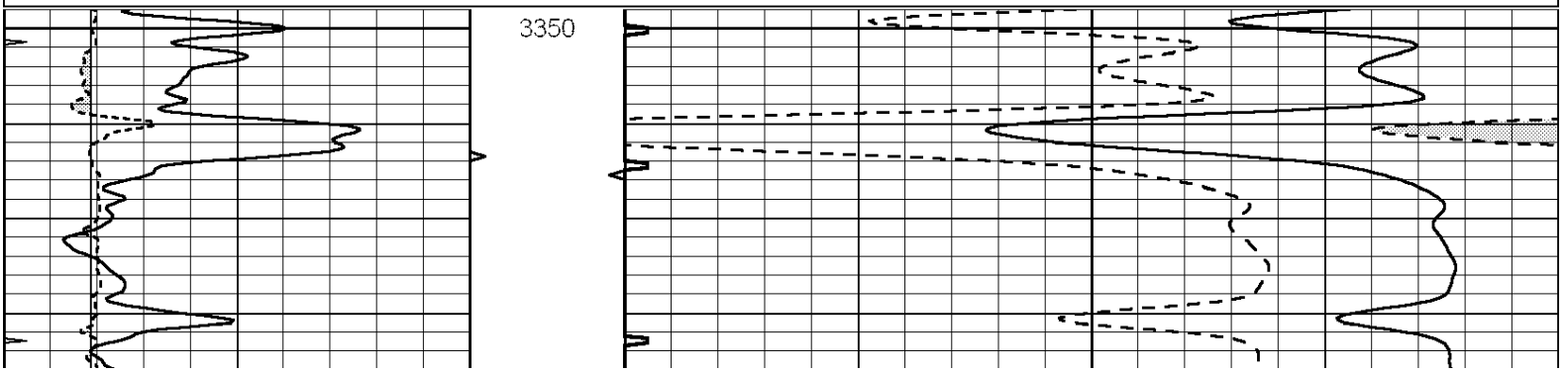
0	GAMMA RAY (GAPI) 150	ABHV	140	DELTA TIME (usec/ft)	40
6	CALIPER (in) 16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
0	MINMK 20	TBHV	0	ITT (msec) 20	
		0 (ft3) 10			

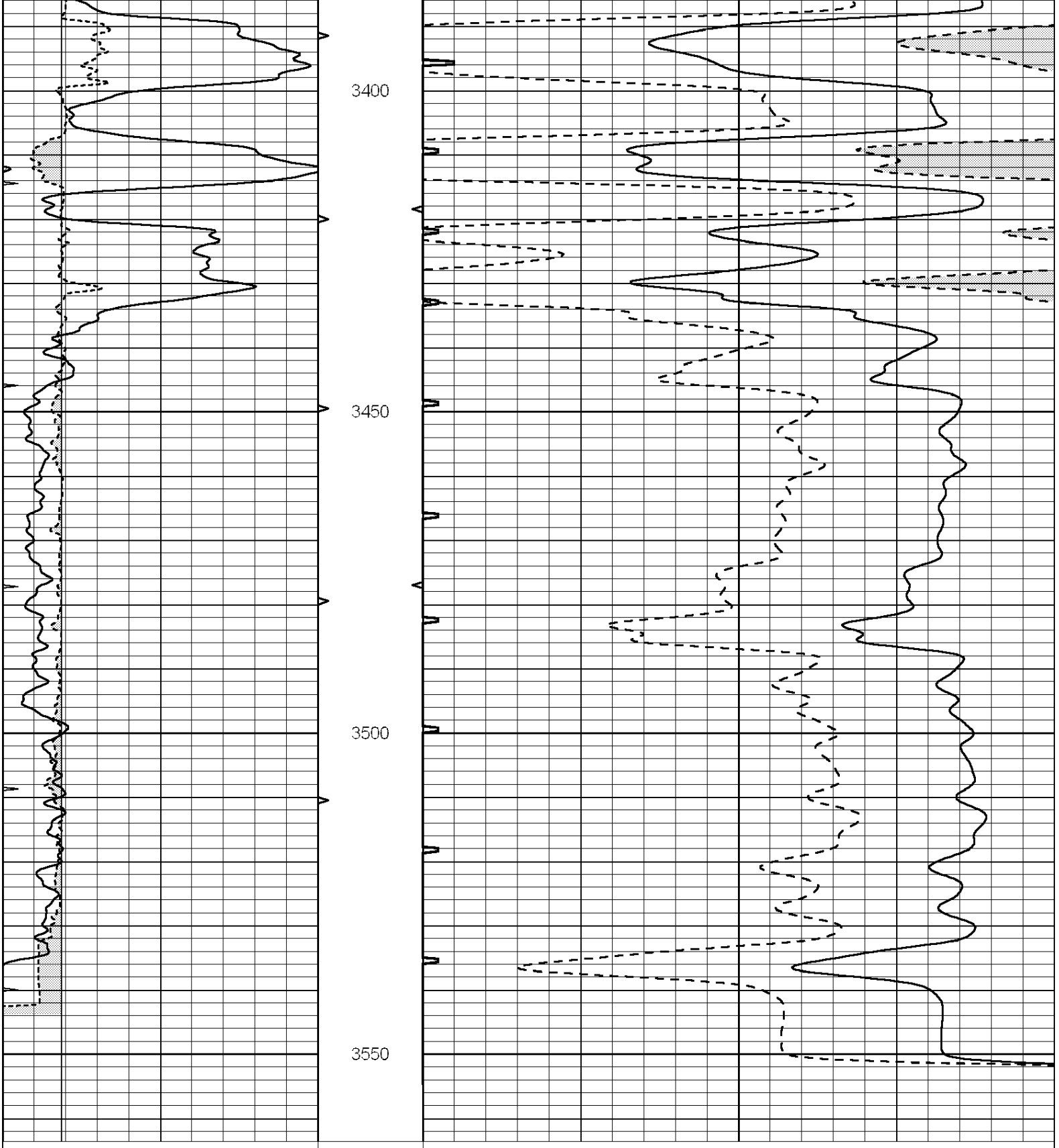
NABORS
COMPLETION & PRODUCTION SERVICES CO.

REPEAT SECTION

Database File: 011804ddn.db
Dataset Pathname: pass6.1
Presentation Format: _slt
Dataset Creation: Fri Nov 08 23:13:28 2013 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:240

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




3400
3450
3500
3550
0 GAMMA RAY (GAPI) 150
6 CALIPER (in) 16
0 MINMK 20
ABHV
10 (ft3) 0
TBHV
0 (ft3) 10
140 DELTA TIME (usec/ft) 40
30 SONIC POROSITY (pu) -10
0 ITT (msec) 20