SONIC LOG

Company WOOLSEY OPERATING COMPANY, LLC.
Well McELWAIN #1
Field JOY STATION
County KIOWA State KANSAS

Location: API # : 15-097-21849-0000
1150' FNL & 1800' FEL
SEC 20 TWP 28S RGE 19W

Permanent Datum GROUND LEVEL Elevation 2288
Log Measured From KELLY BUSHING 12' A.G.L
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL/PE
DIL

Elevation
K.B. 2300
D.F. 2298
G.L. 2288

Company WOOLSEY OPERATING COMPANY, LLC
Well McELWAIN #1
Field JOY STATION
County KIOWA
State KANSAS

Date	2/13/19				
Run Number	TWO				
Depth Driller	5022				
Depth Logger	5024				
Bottom Logged Interval	5014				
Top Log Interval	350				
Casing Driller	10 3/4" @ 395'				
Casing Logger	395				
Bit Size	7 7/8				
Type Fluid in Hole	CHEMICAL MUD			CHLORIDES 7000 PPM	
Density / Viscosity	9.2/67				
pH / Fluid Loss	10.0/8.8				
Source of Sample	FLOWLINE				
Rm @ Meas. Temp	.50 @ 60F				
Rmf @ Meas. Temp	.37 @ 60F				
Rmc @ Meas. Temp	.60 @ 60F				
Source of Rmf / Rmc	MEASUREMENT				
Rm @ BHT	.24 @ 125F				
Time Circulation Stopped	2 HOURS				
Time Logger on Bottom	////				
Maximum Recorded Temperature	125F				
Equipment Number	3802				
Location	HAYS, KANSAS				
Recorded By	JASON CAPPELLUCCI				
Witnessed By	BILL KLAVER				

<<< Fold Here >>>

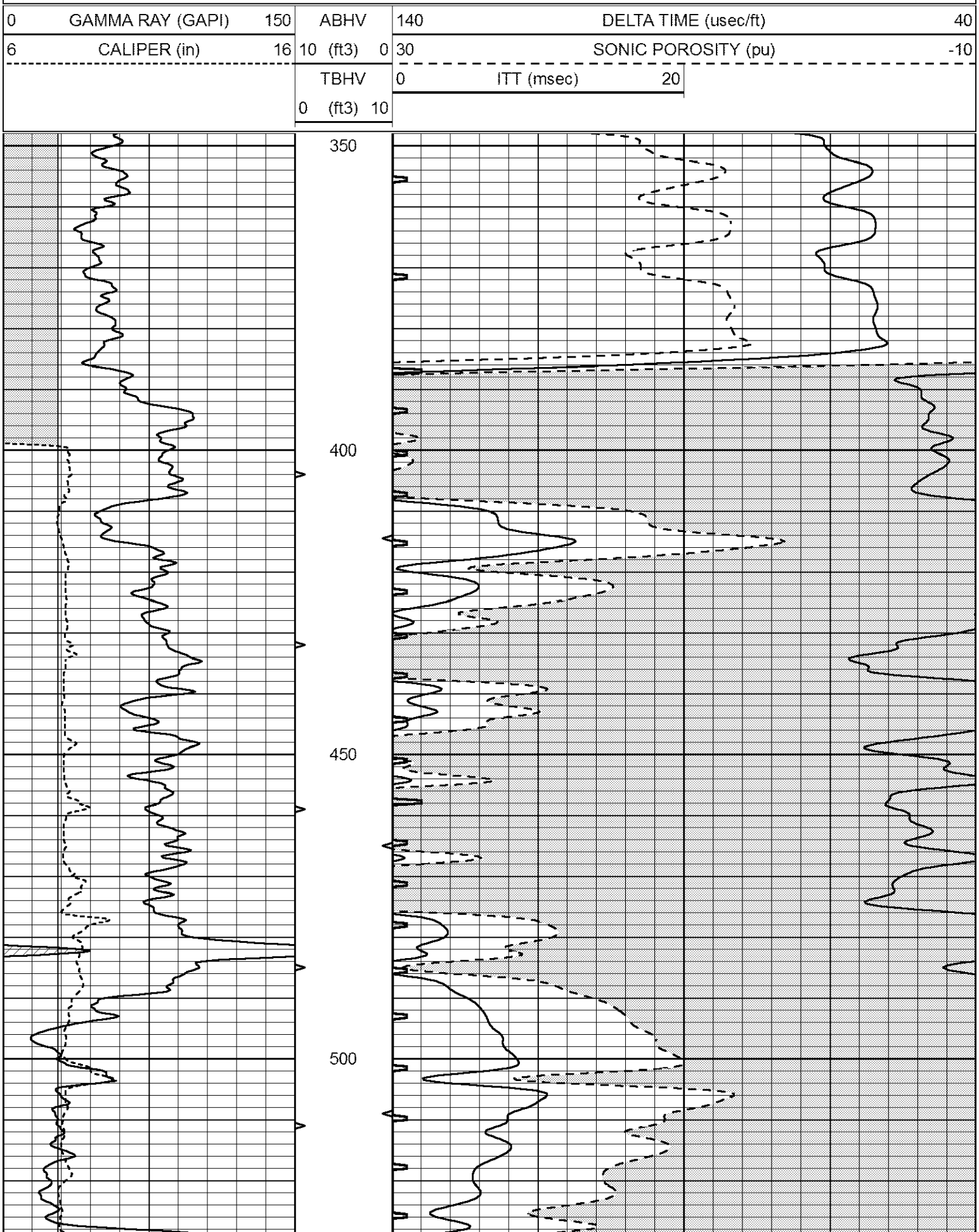
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

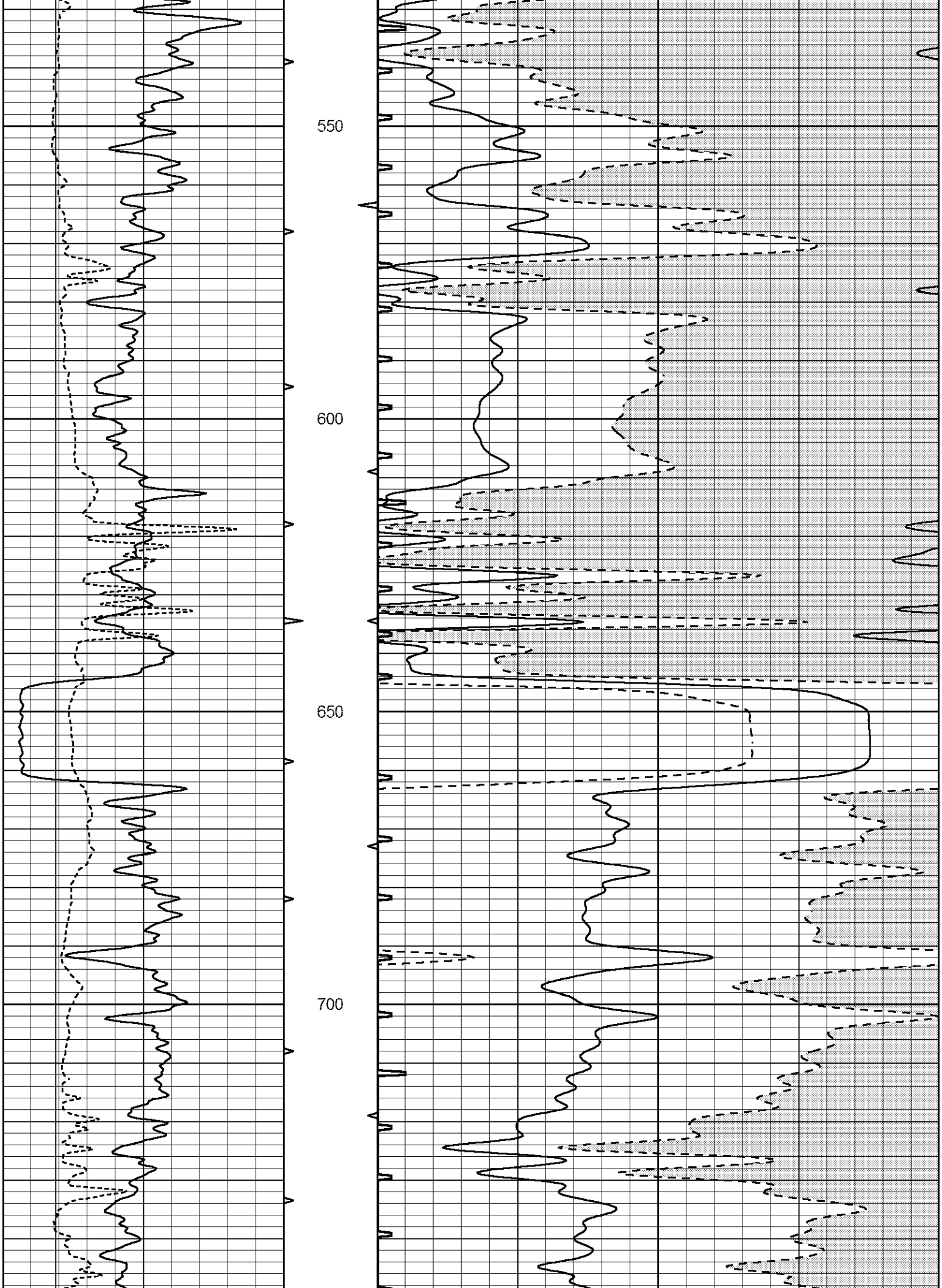
Comments

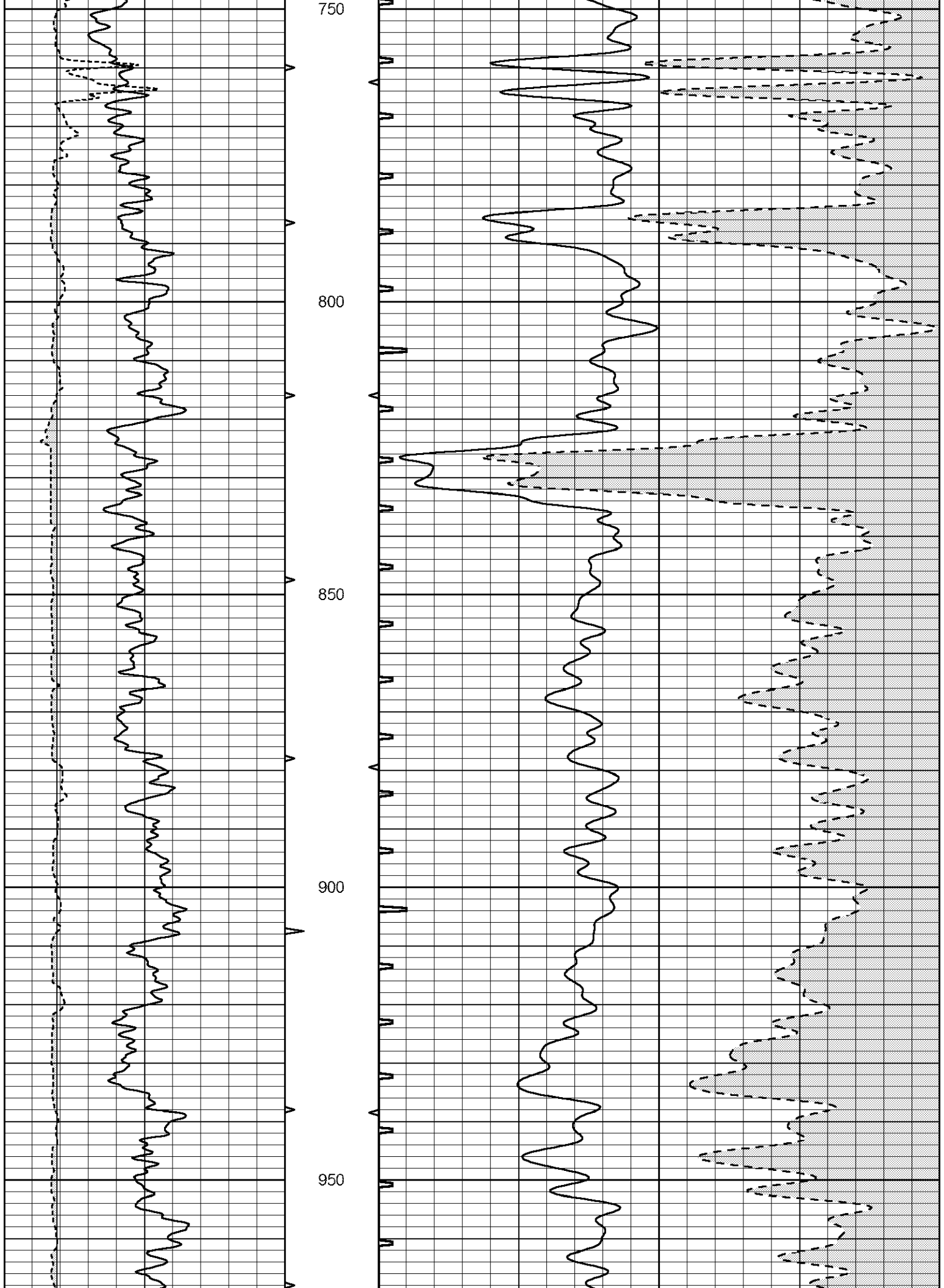
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
GREENSBURG, KS. - WEST TO MULLINVILLE GAS PLANT - 1 NORTH TO J RD.
3/4 WEST - SOUTHEAST INTO

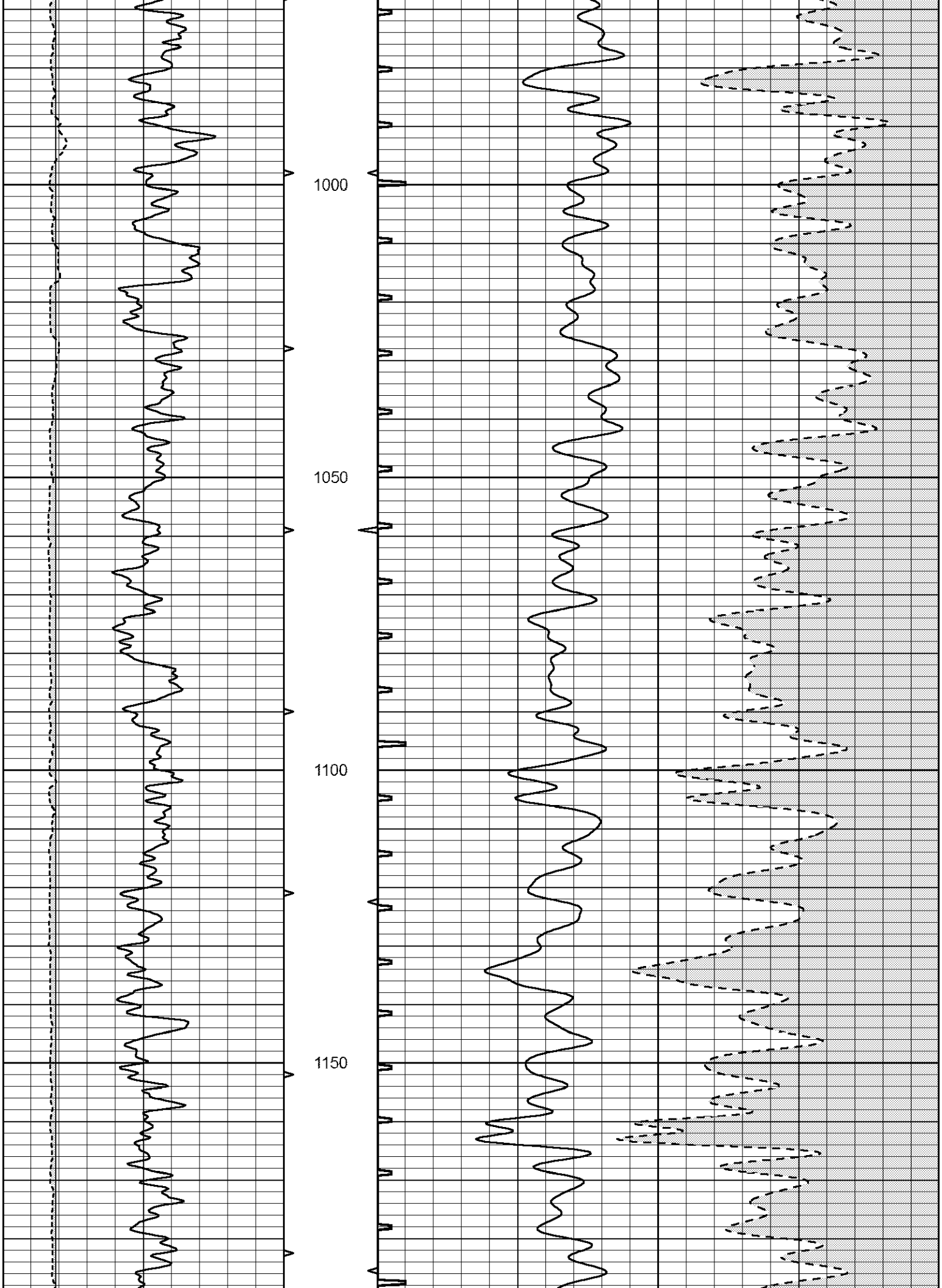
MAIN SECTION

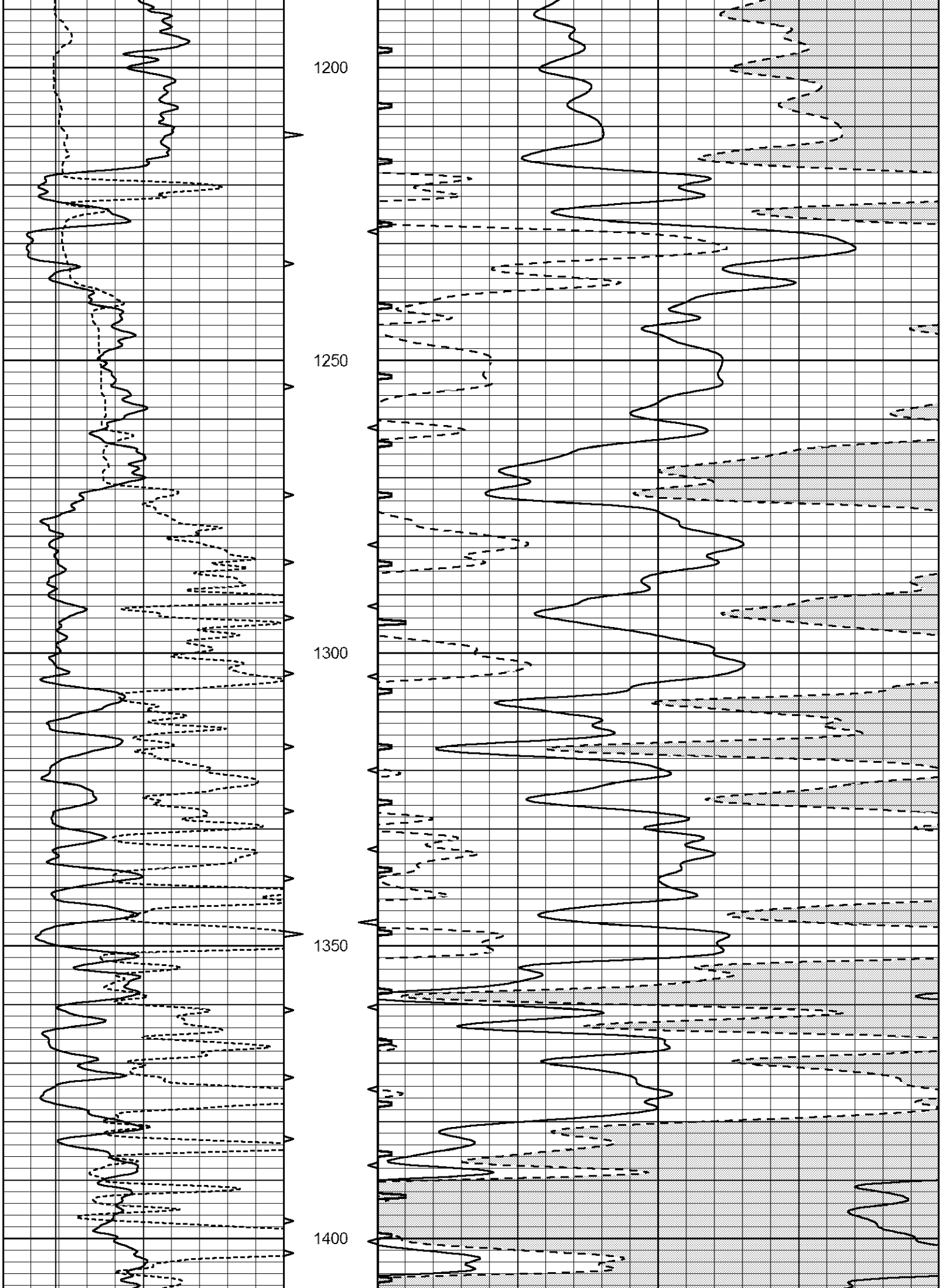
Database File	3443pe8.db
Dataset Pathname	pass6
Presentation Format	_slt
Dataset Creation	Wed Feb 13 06:32:43 2019
Charted by	Depth in Feet scaled 1:240

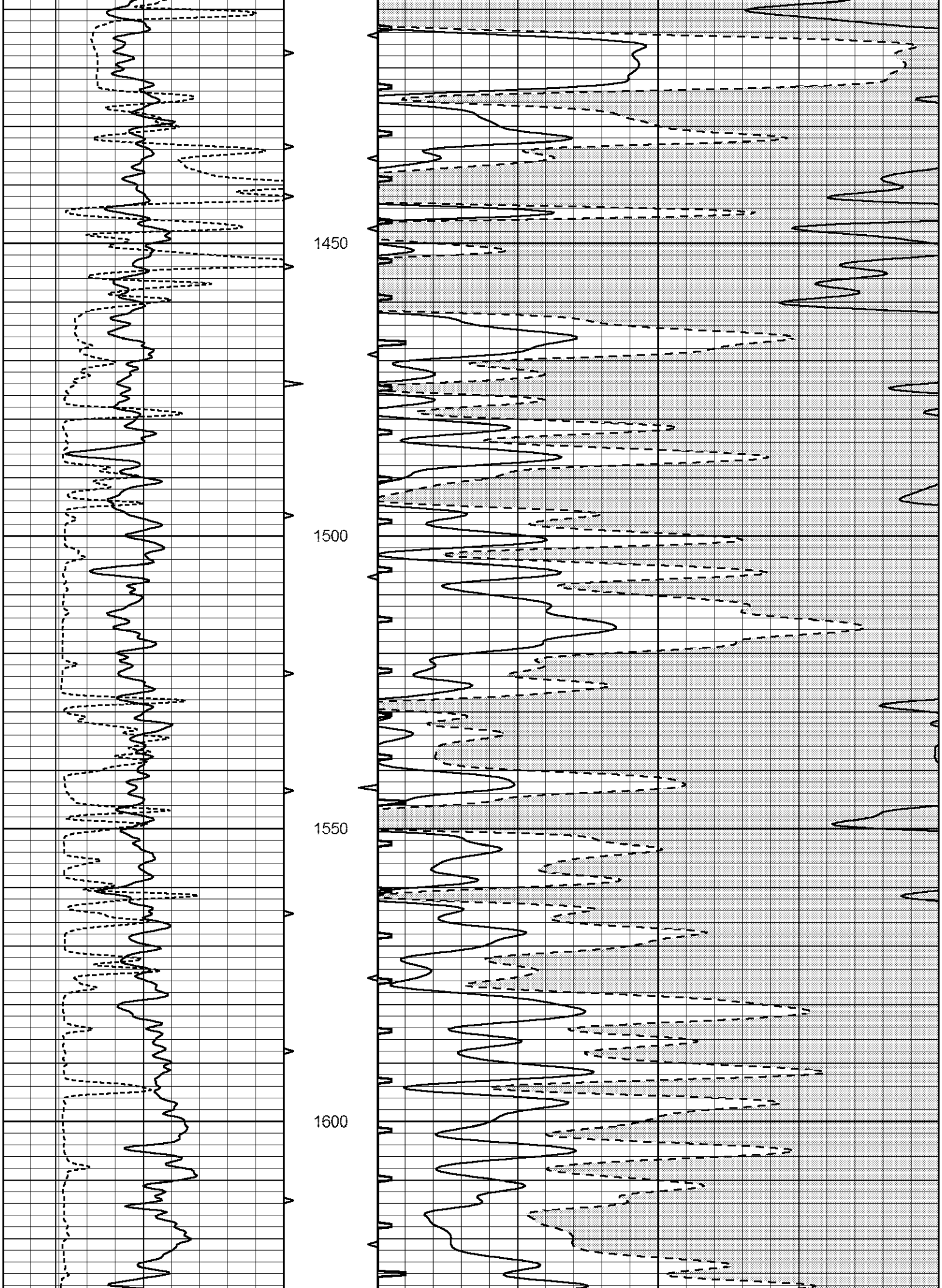


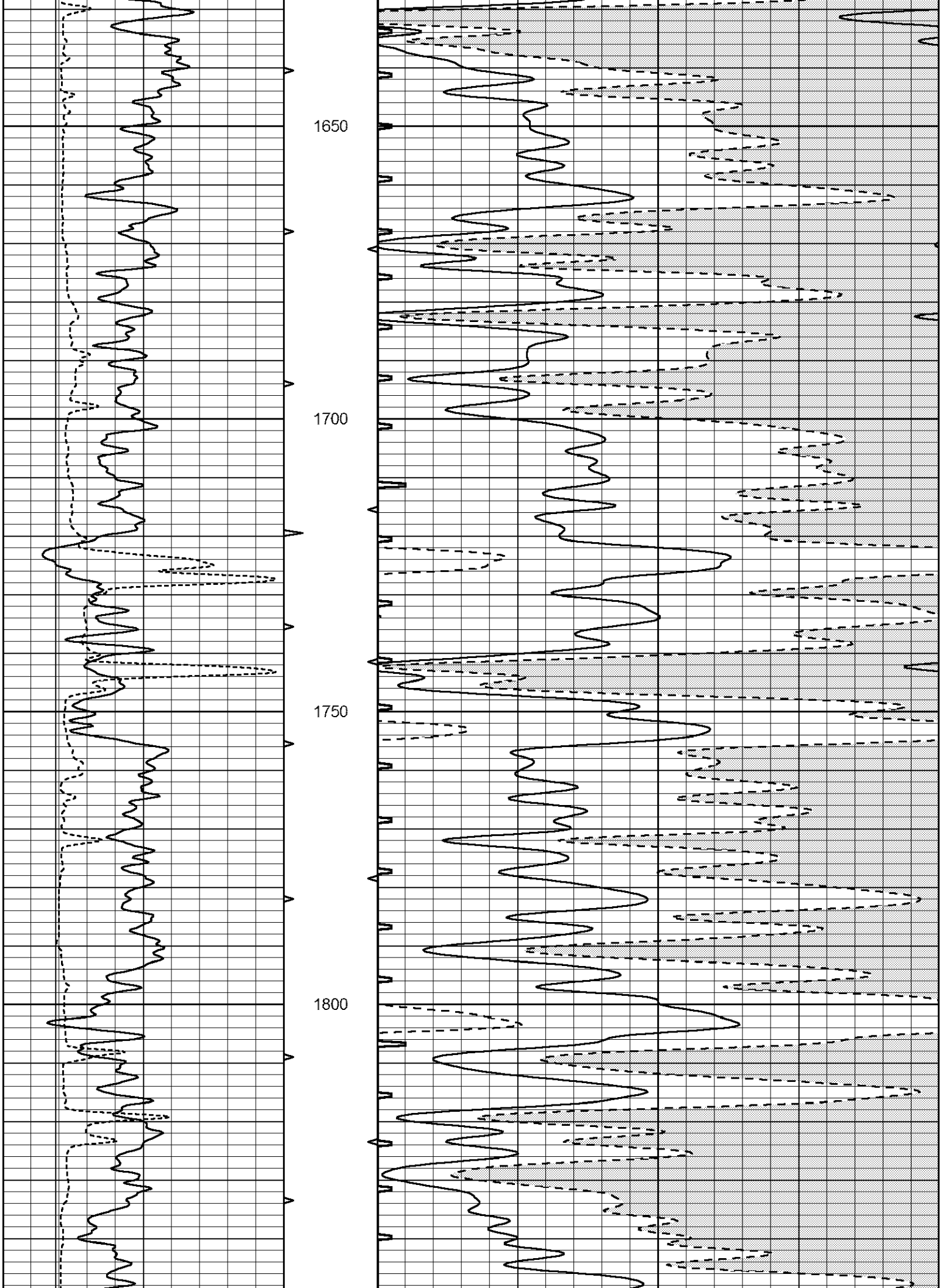

550
600
650
700

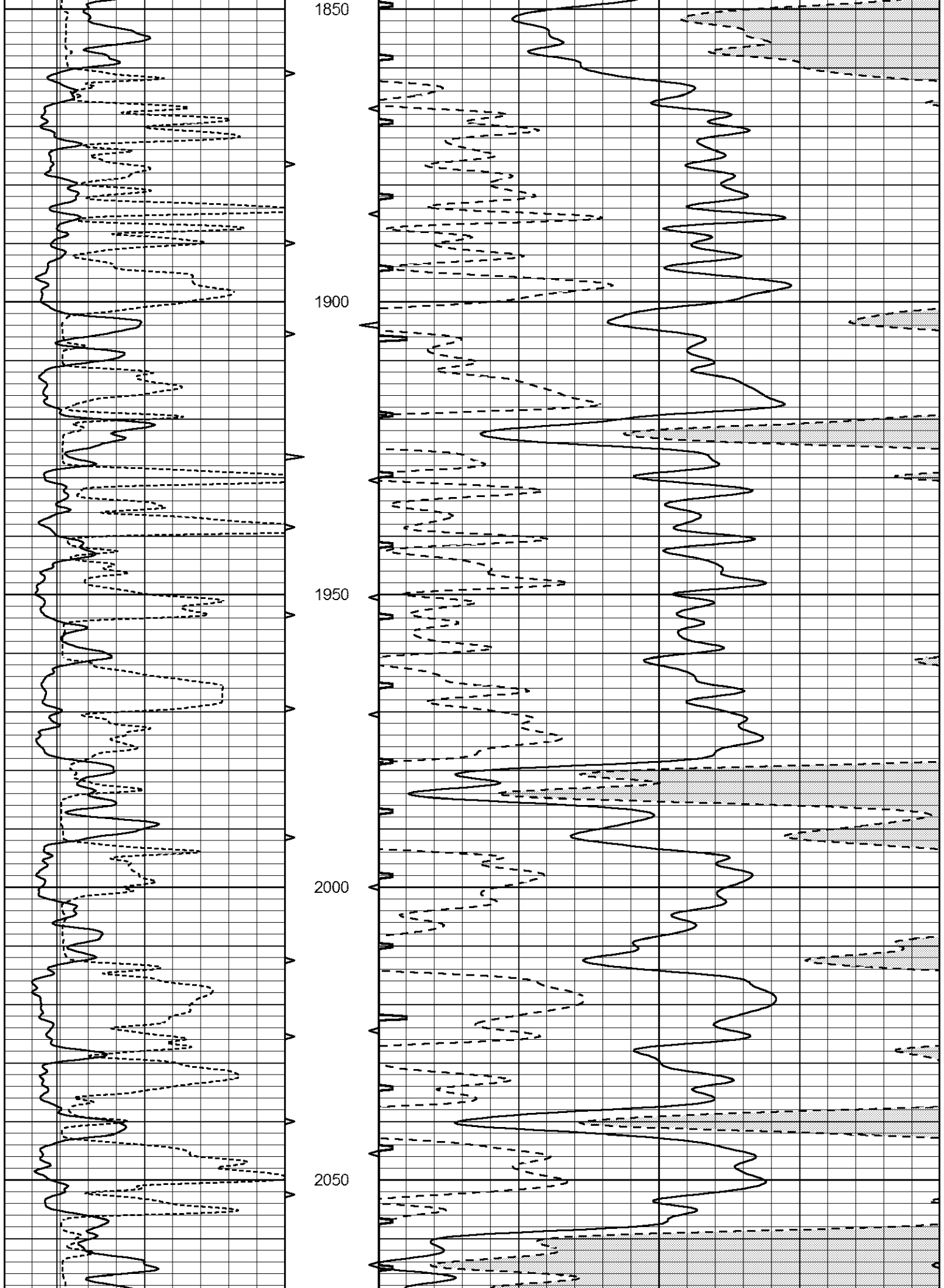

750
800
850
900
950

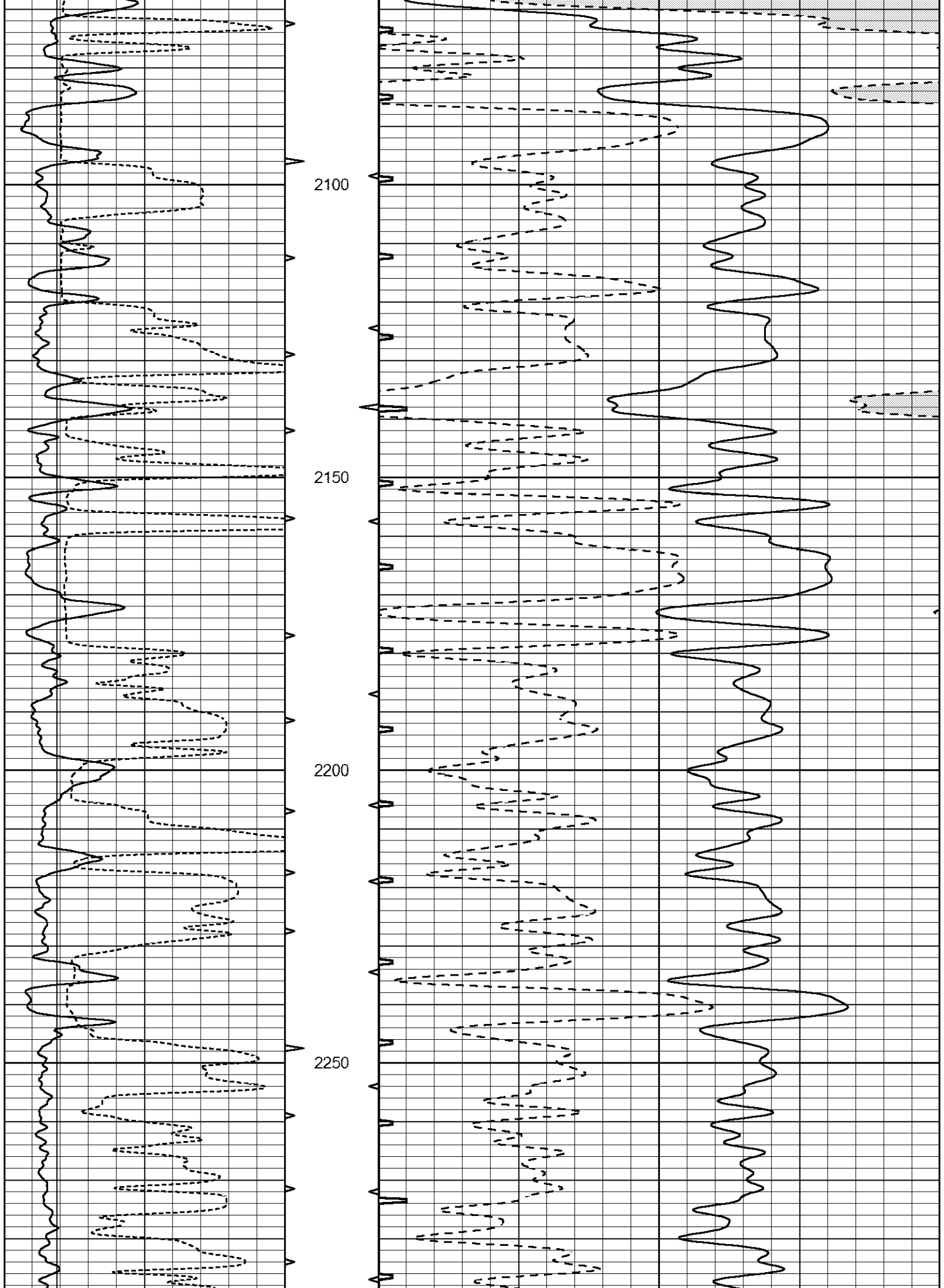

1000
1050
1100
1150

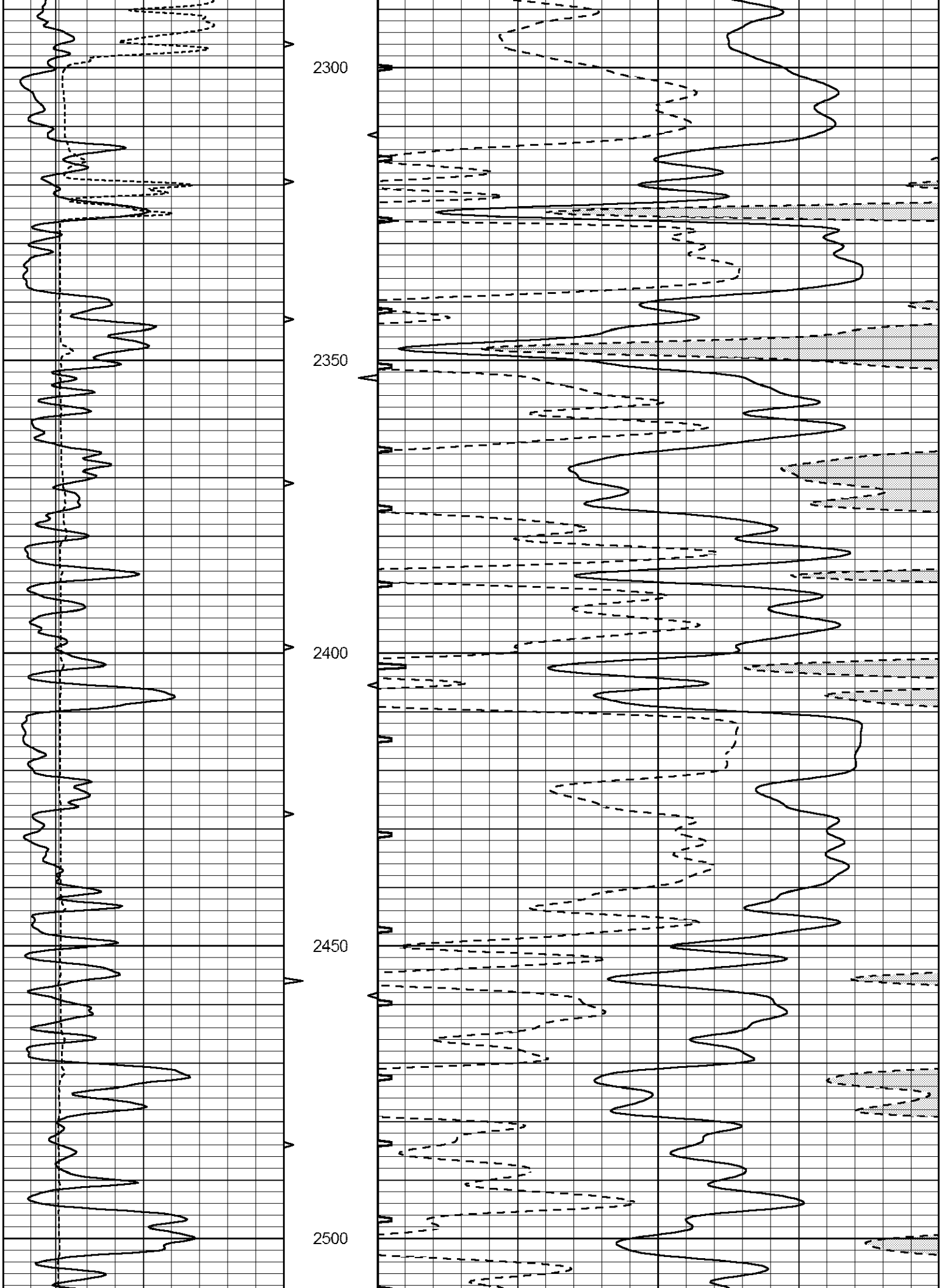

1200
1250
1300
1350
1400

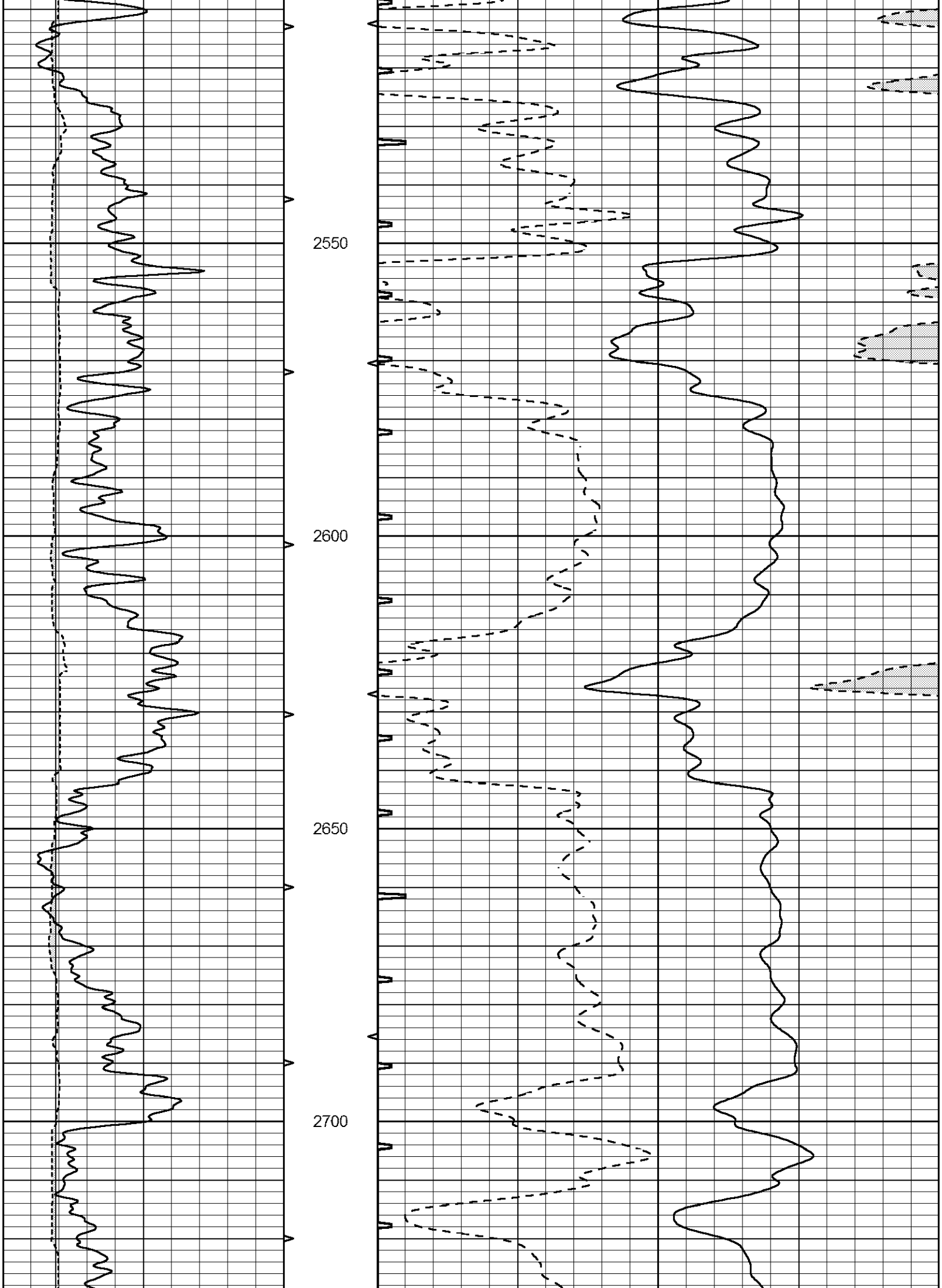

1450
1500
1550
1600

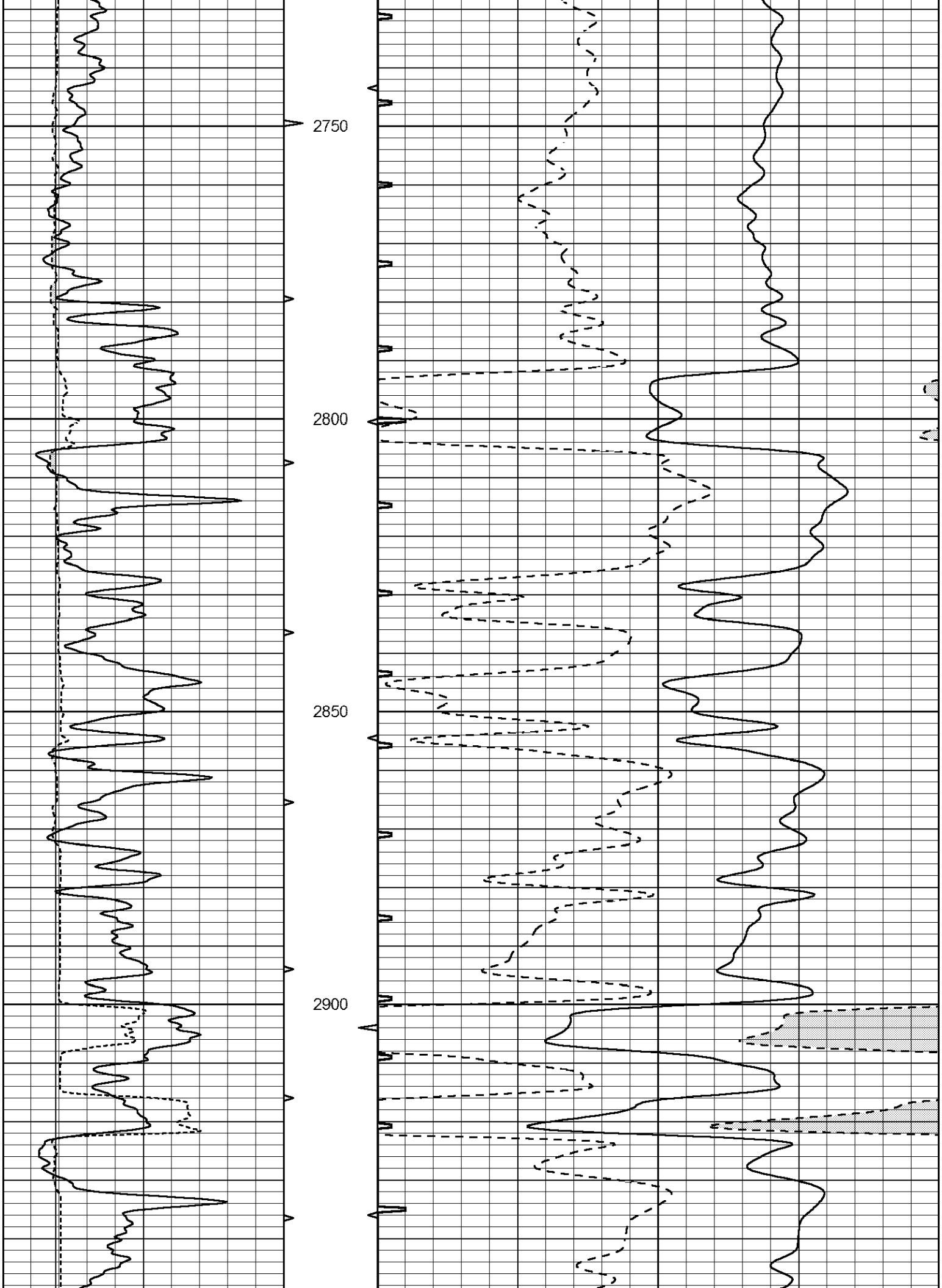

1650
1700
1750
1800

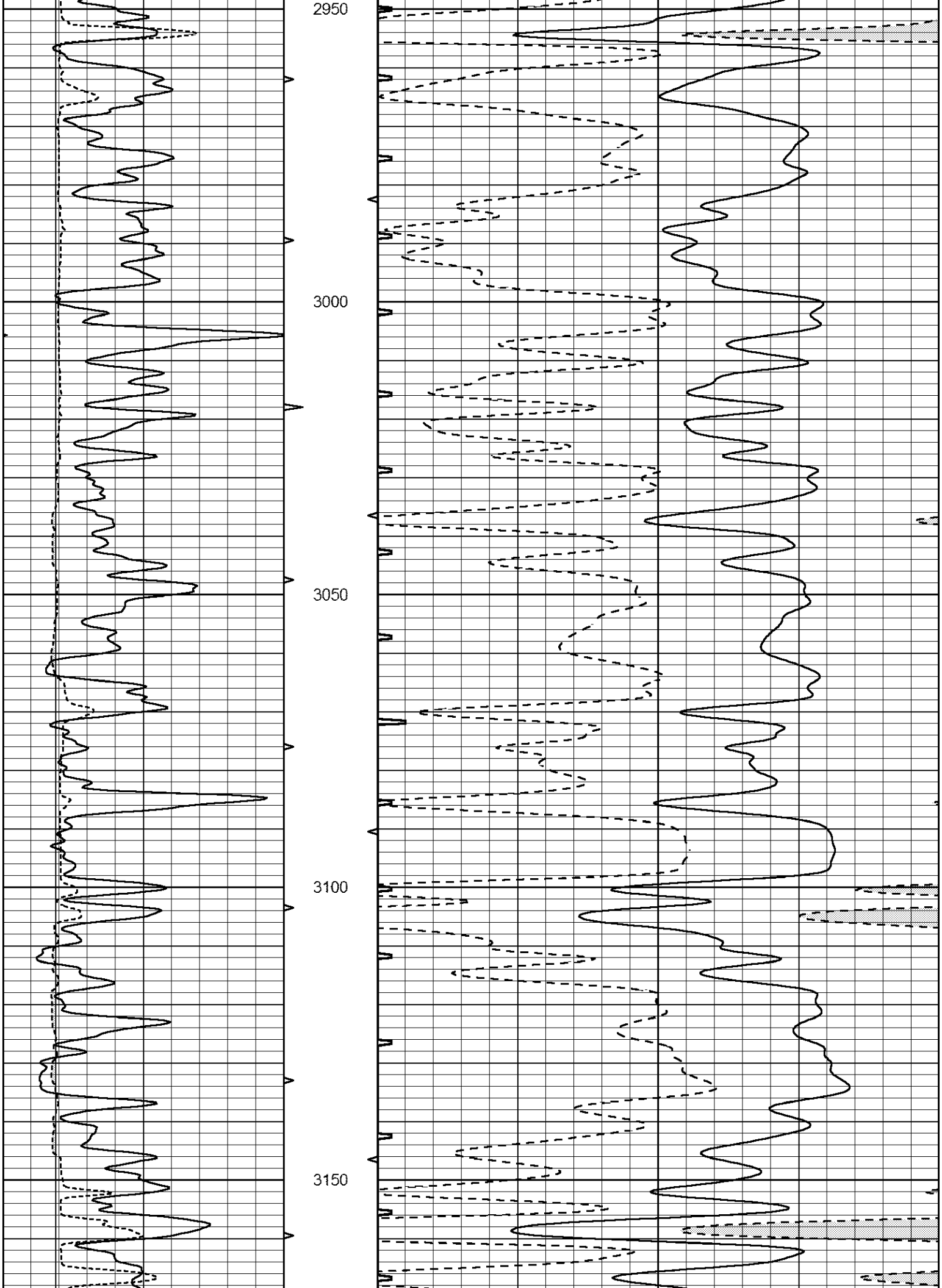

1850
1900
1950
2000
2050

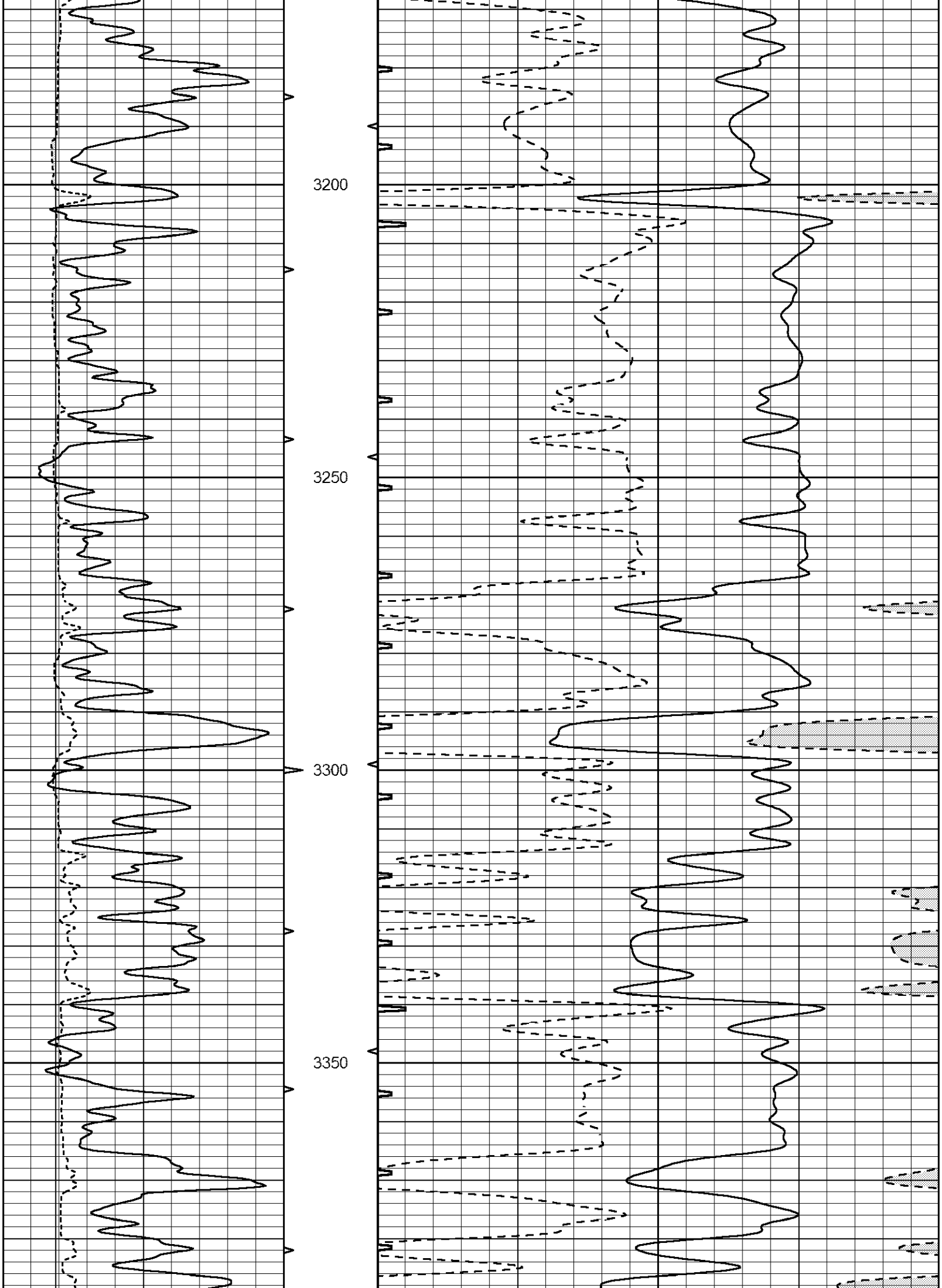

2100
2150
2200
2250

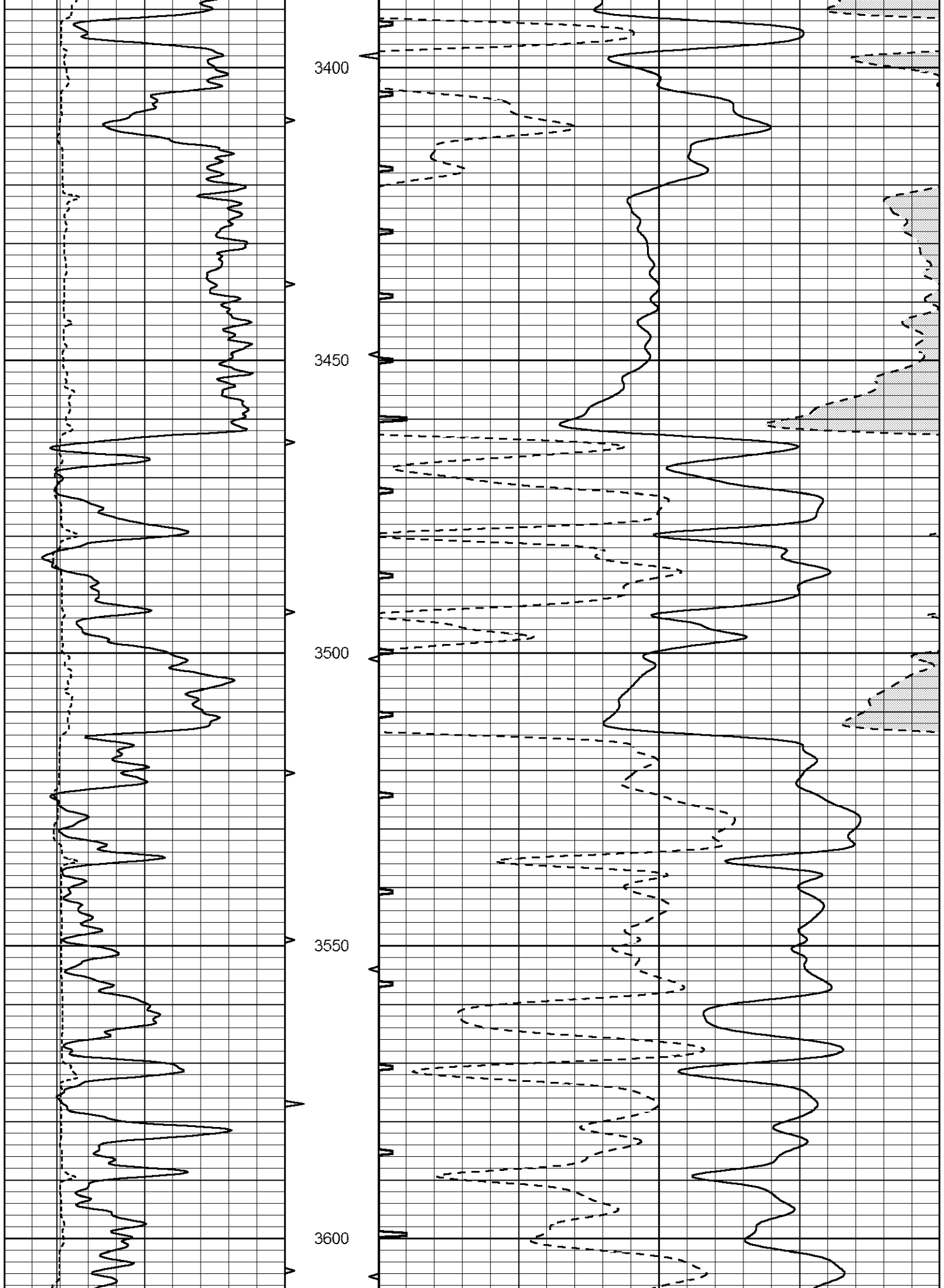

2300
2350
2400
2450
2500

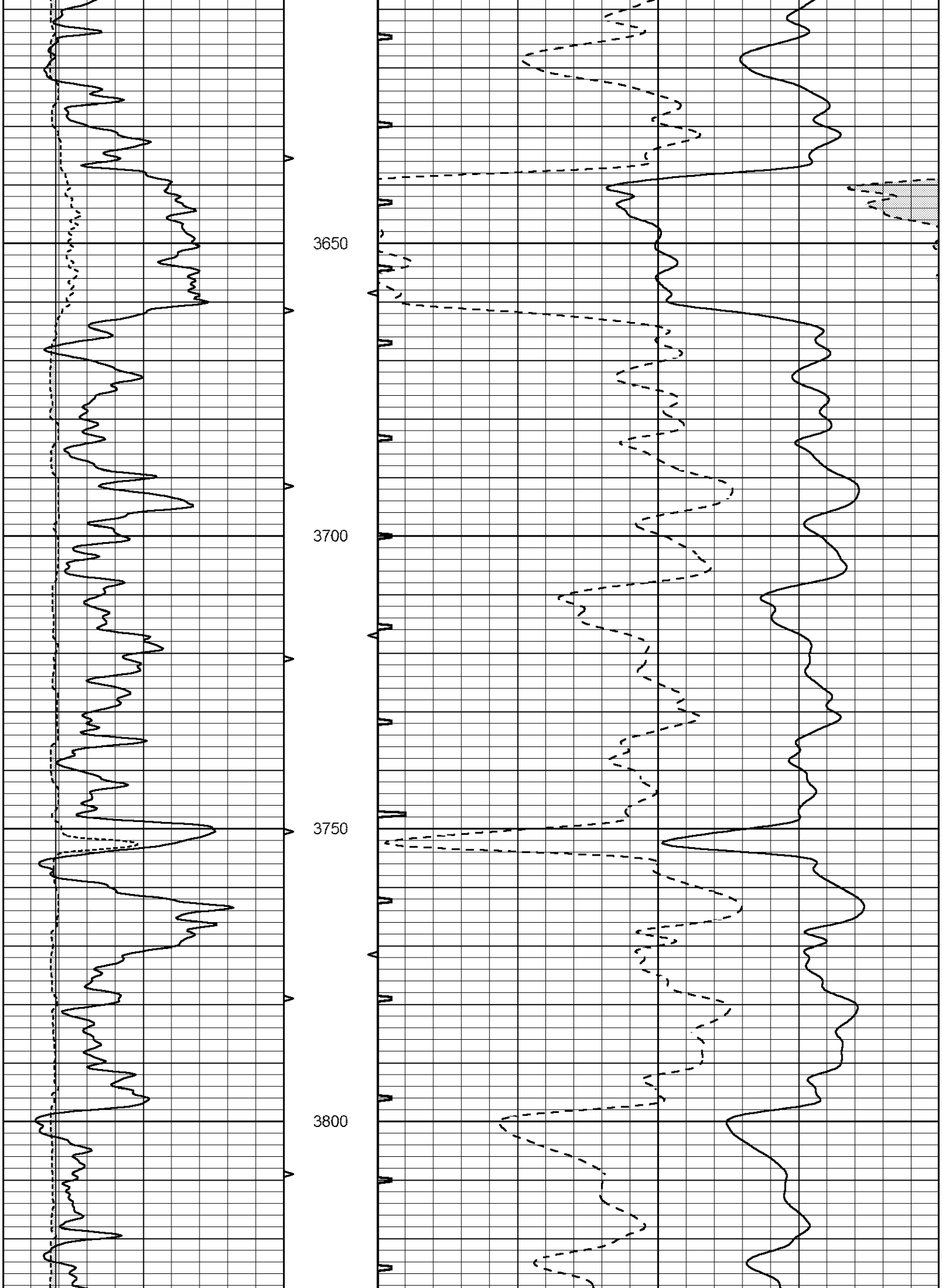

2550
2600
2650
2700

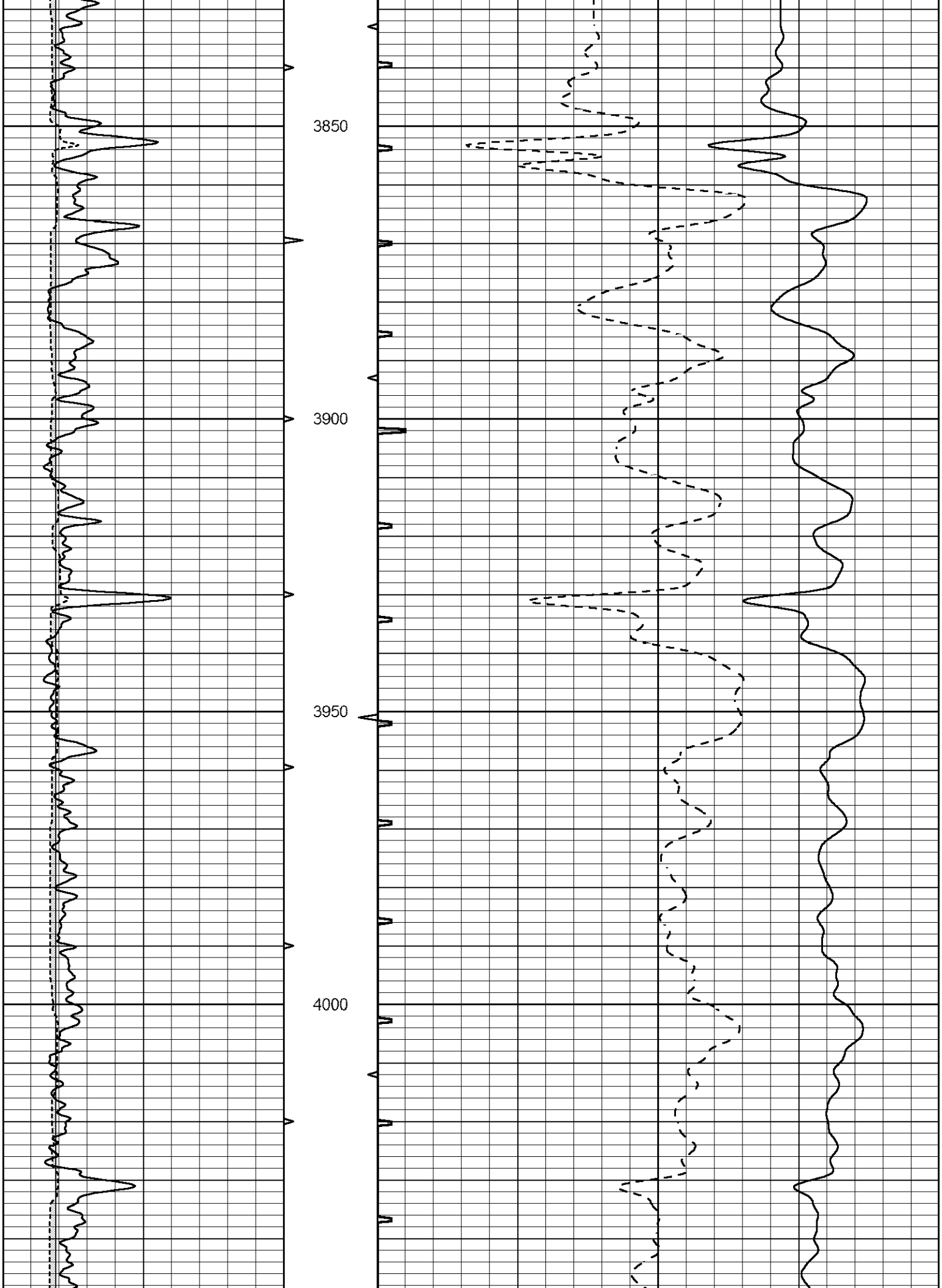

2750
2800
2850
2900

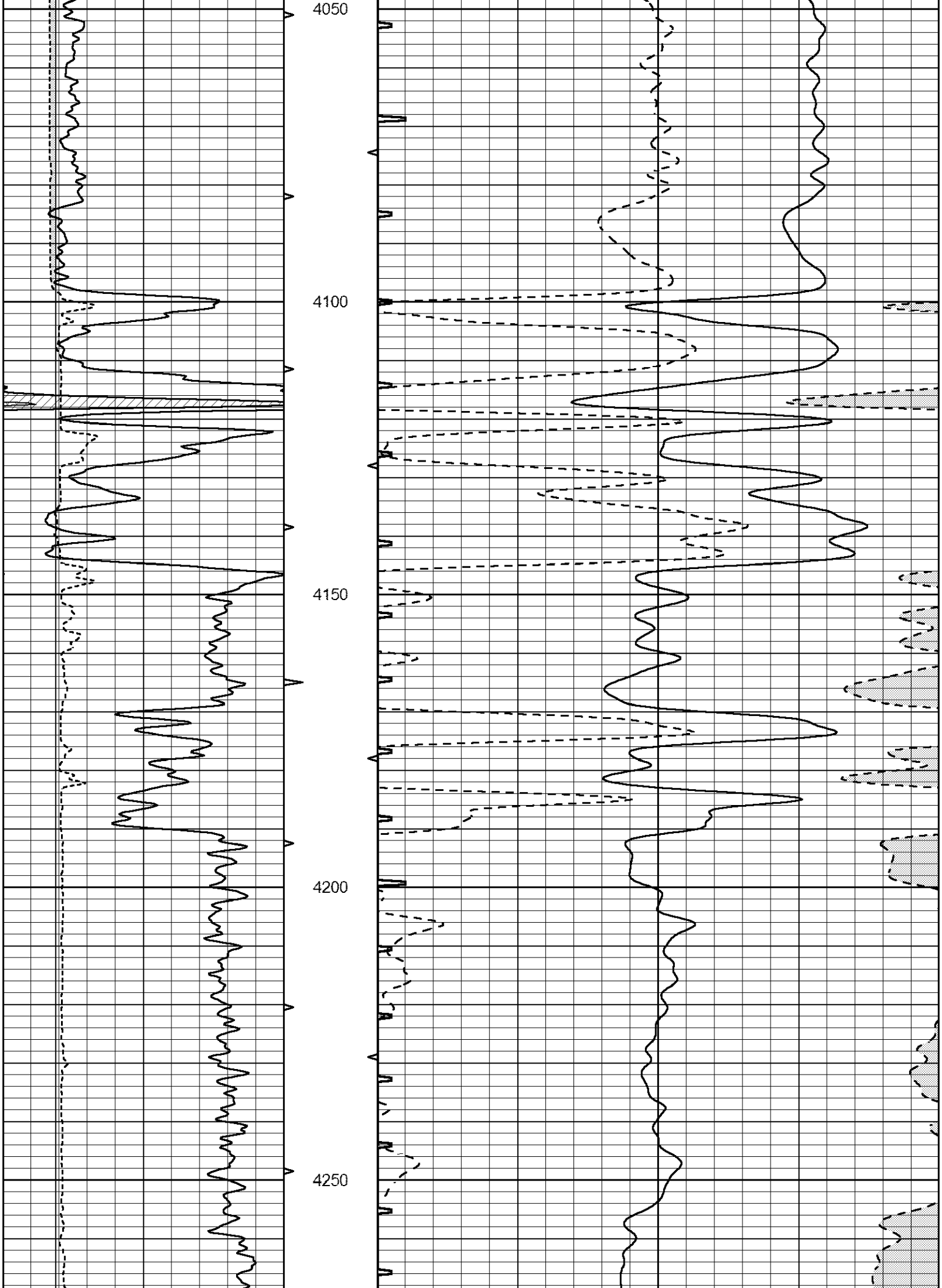

2950
3000
3050
3100
3150

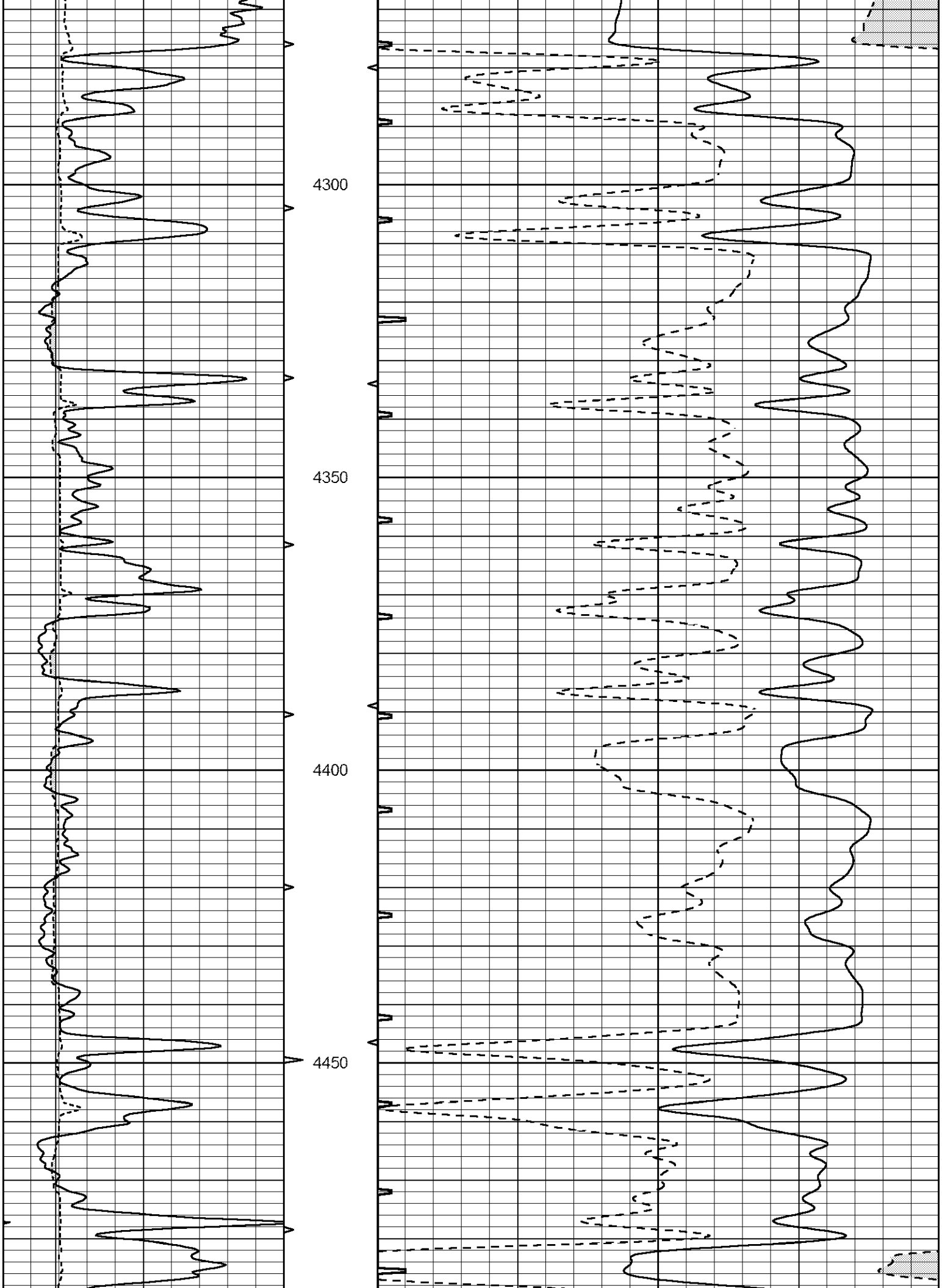

3200
3250
3300
3350

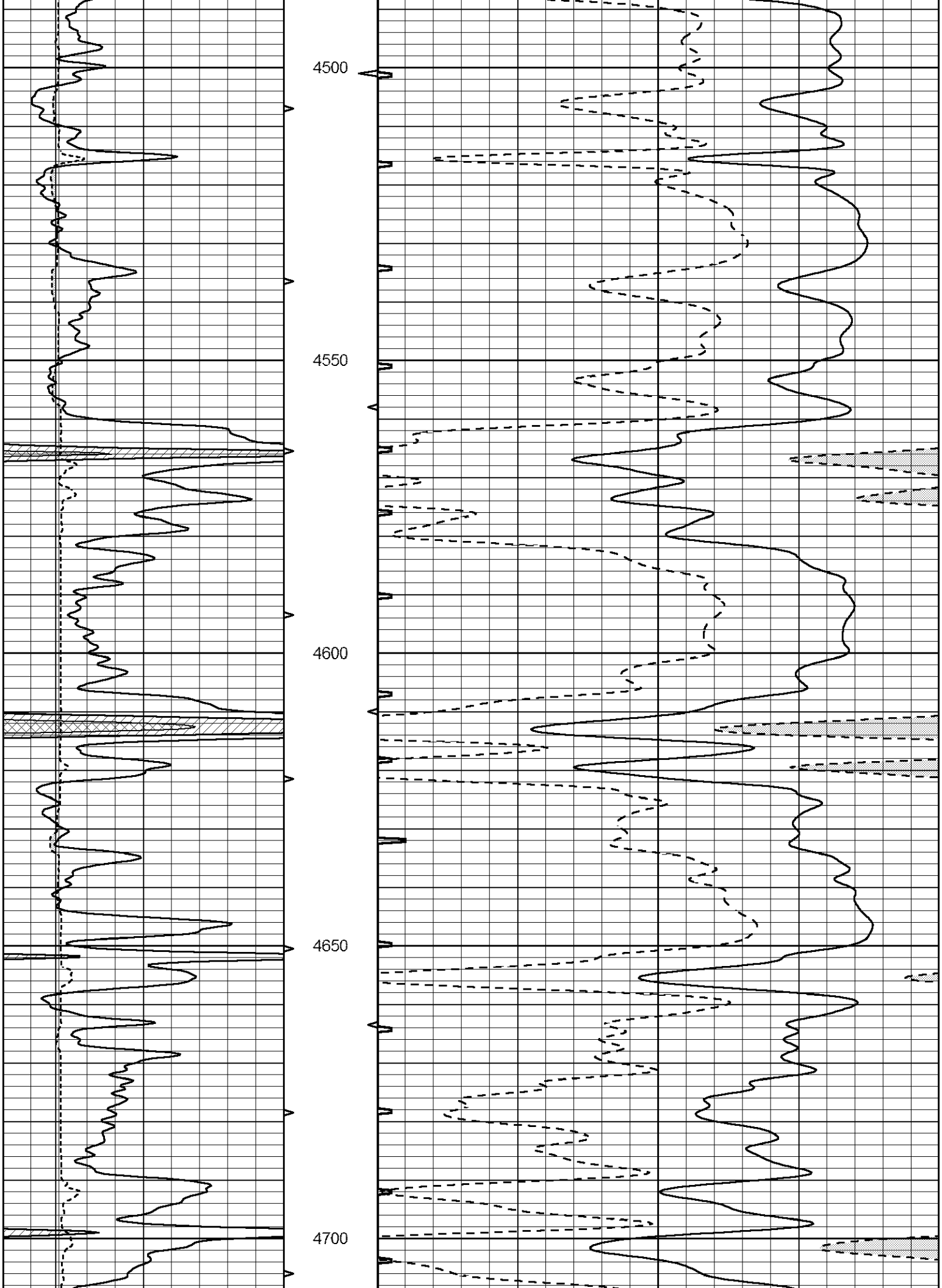

3400
3450
3500
3550
3600

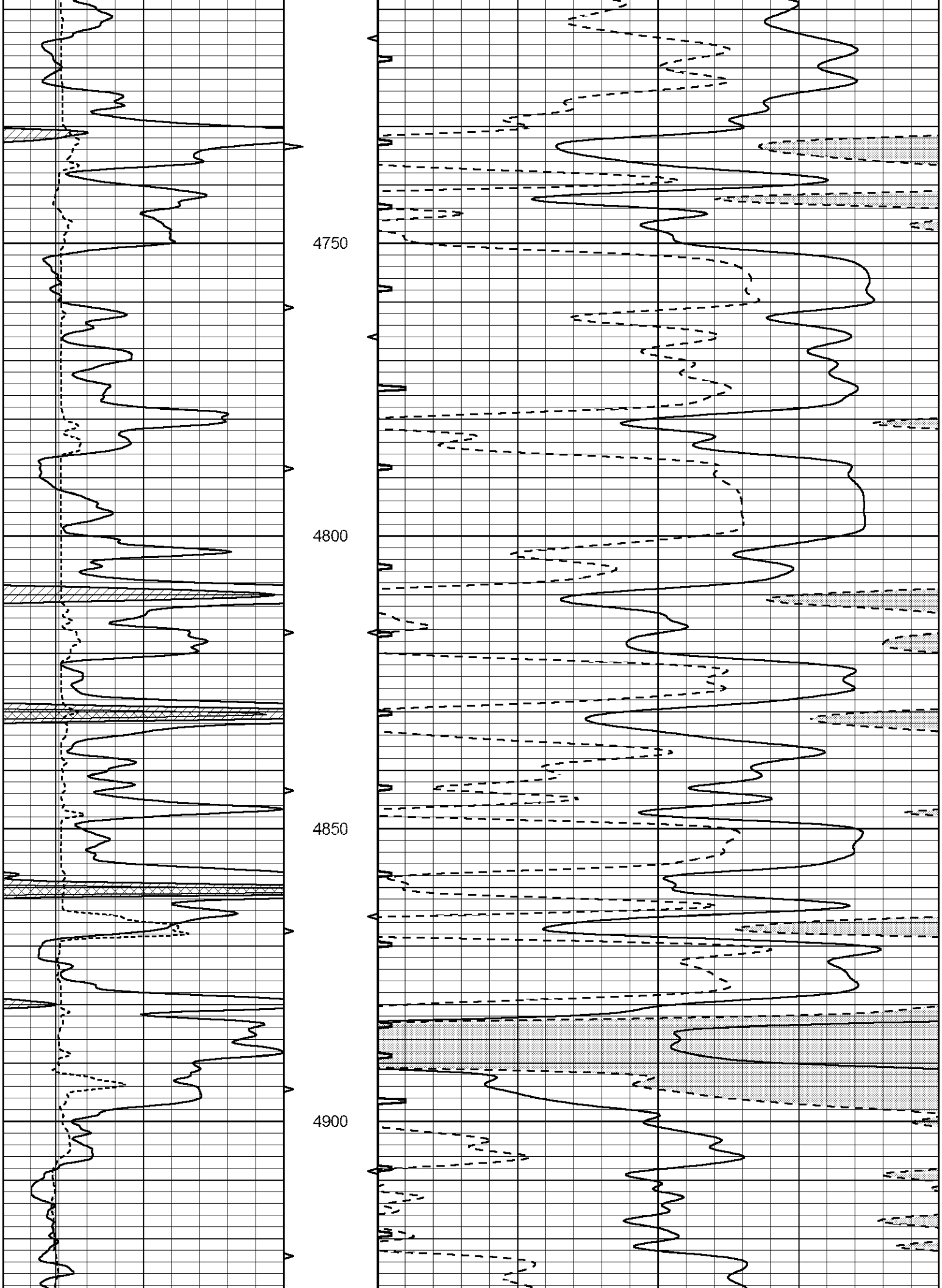

3650
3700
3750
3800

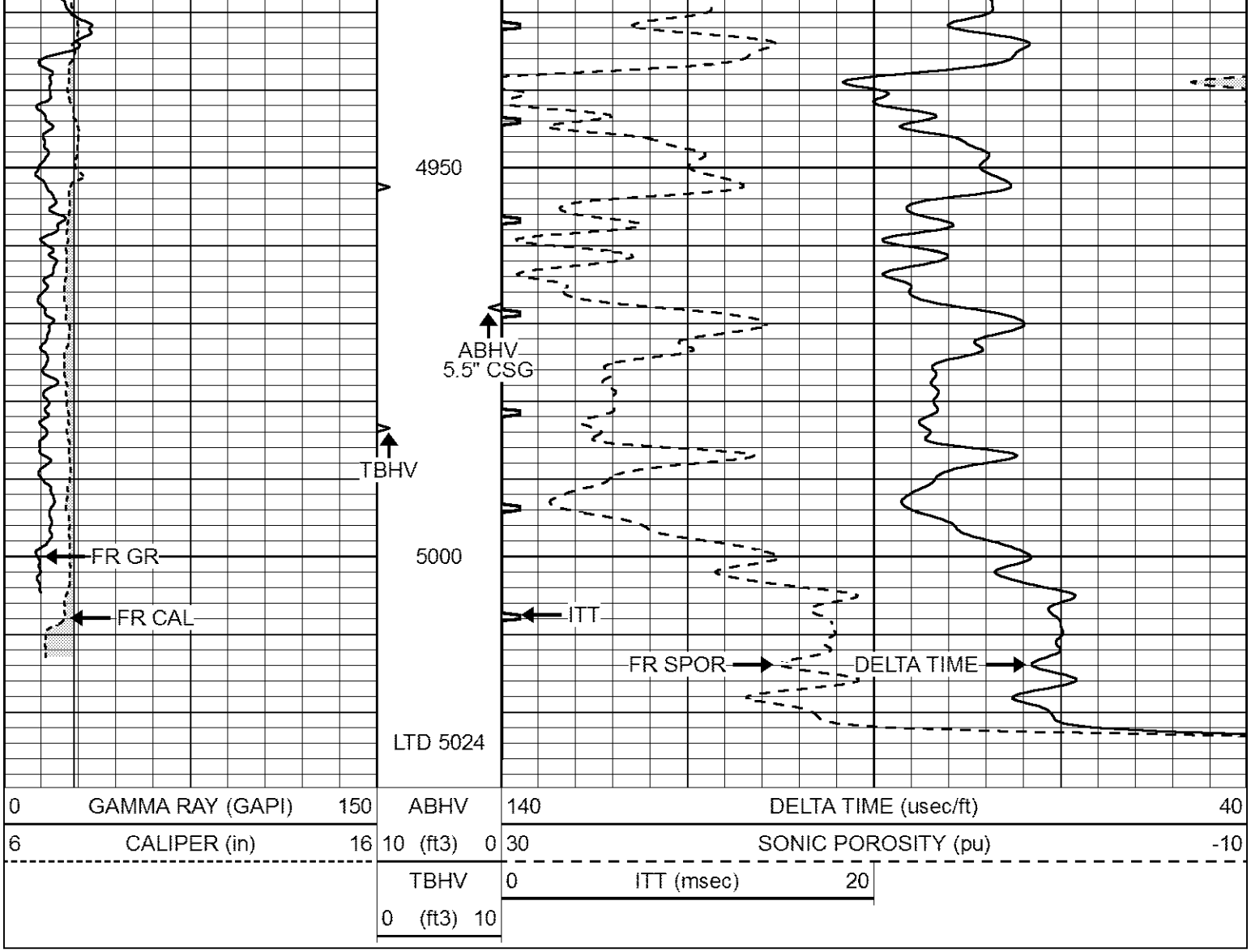

3850
3900
3950
4000


4050
4100
4150
4200
4250


4300
4350
4400
4450

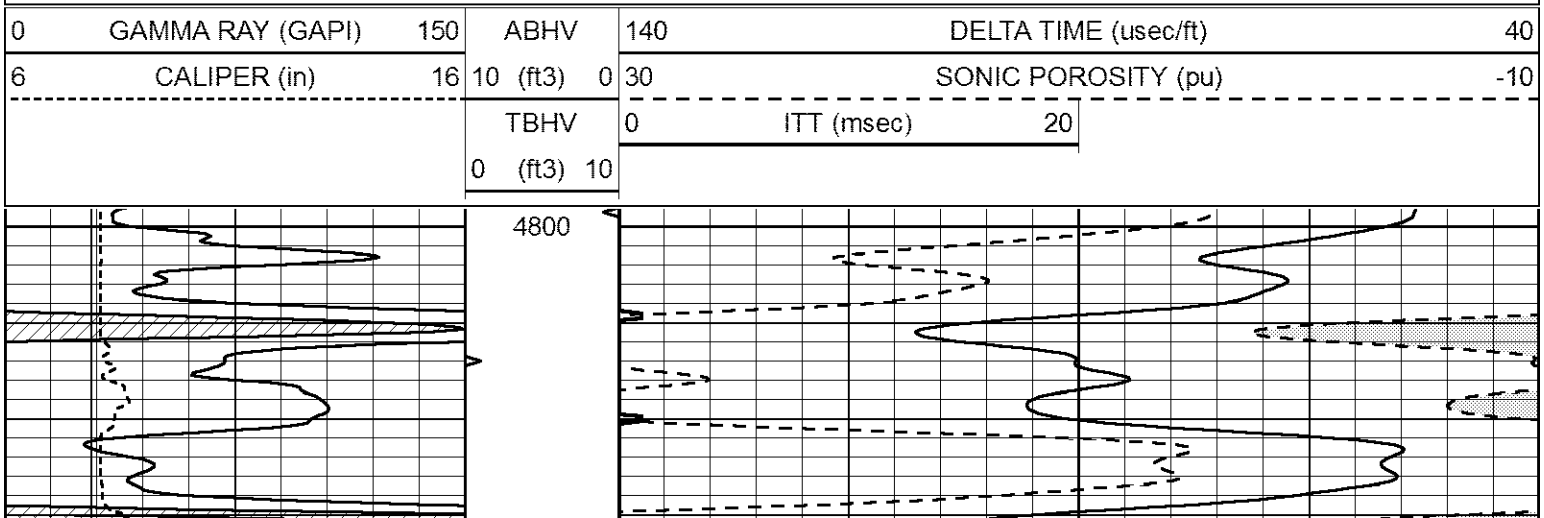

4500
4550
4600
4650
4700

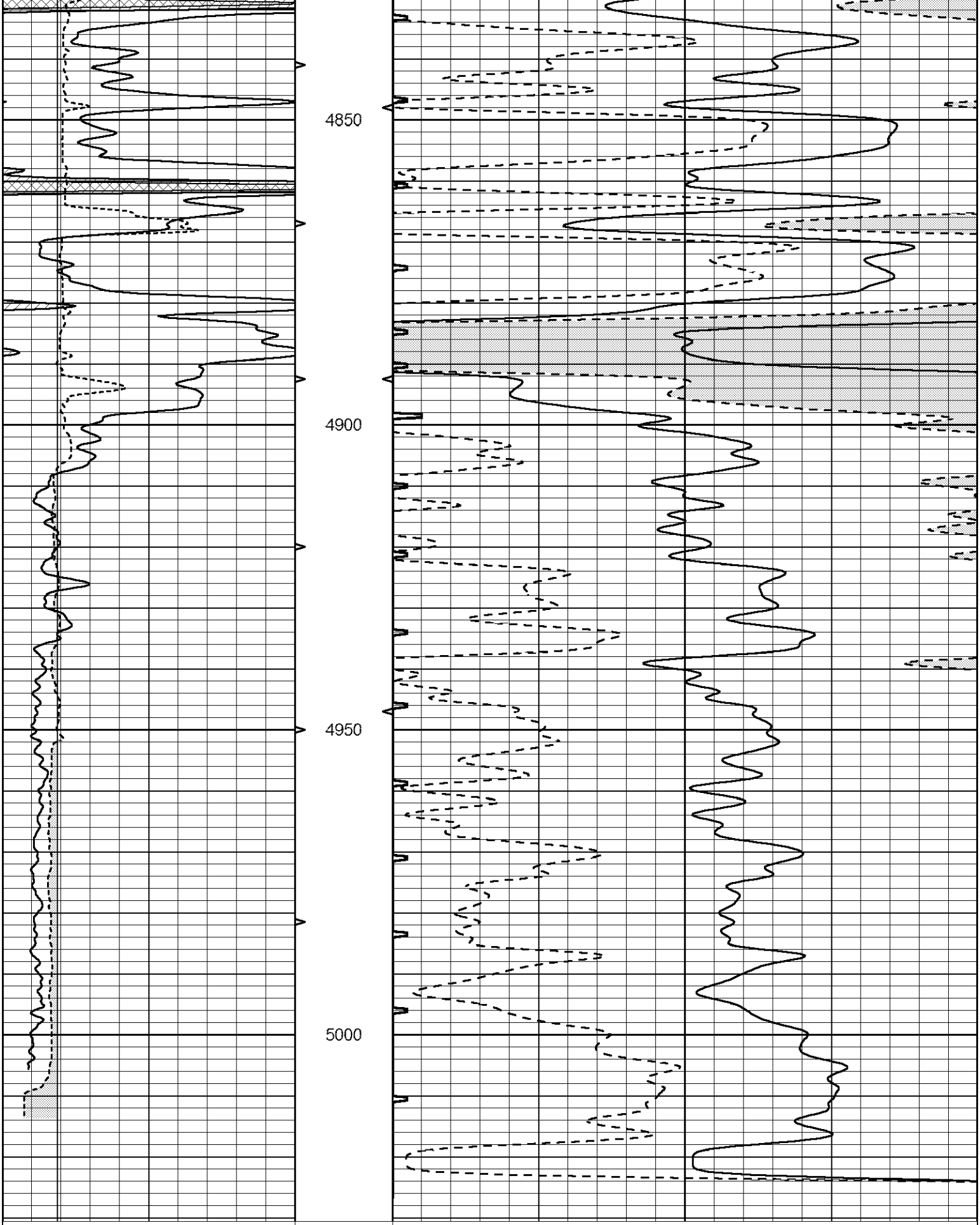

4750
4800
4850
4900



REPEAT SECTION

Database File	3443pe8.db
Dataset Pathname	pass5.1
Presentation Format	_slt
Dataset Creation	Wed Feb 13 06:46:00 2019
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
			TBHV	0	ITT (msec) 20
			0 (ft3) 10		