



COMPENSATED DENSITY/NEUTRON LOG

Company YELLOW DOG ENERGY, LLC.

Well BAUGHMAN #28-1

Field RESERVOIR

County ROOKS State KANSAS

Location: API # : 15-163-24361-0000

1450' FSL & 1150' FWL

SEC 28 TWP 7S RGE 19W

Permanent Datum GROUND LEVEL Elevation 1927
Log Measured From KELLY BUSHING 6" A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
DIL/MEL
SONIC
Elevation
K.B. 1933
D.F. 1931
G.L. 1927

Date 5/17/18

Run Number ONE

Depth Driller 3490

Depth Logger 3491

Bottom Logged Interval 3467

Top Log Interval 250

Casing Driller 8 5/8" @ 263

Casing Logger 262

Bit Size 7 7/8

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.1/46

pH / Fluid Loss 8.4/9.0

Source of Sample FLOWLINE

Rm @ Meas. Temp .75 @ 86F

Rmf @ Meas. Temp .56 @ 86F

Rmc @ Meas. Temp .90 @ 86F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .58 @ 111F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 111F

Maximum Recorded Temperature 111F

Equipment Number 3802

Location HAYS, KANSAS

Recorded By JASON CAPELLUCCI

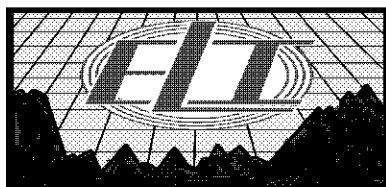
Witnessed By JERRY GREEN

<<< 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

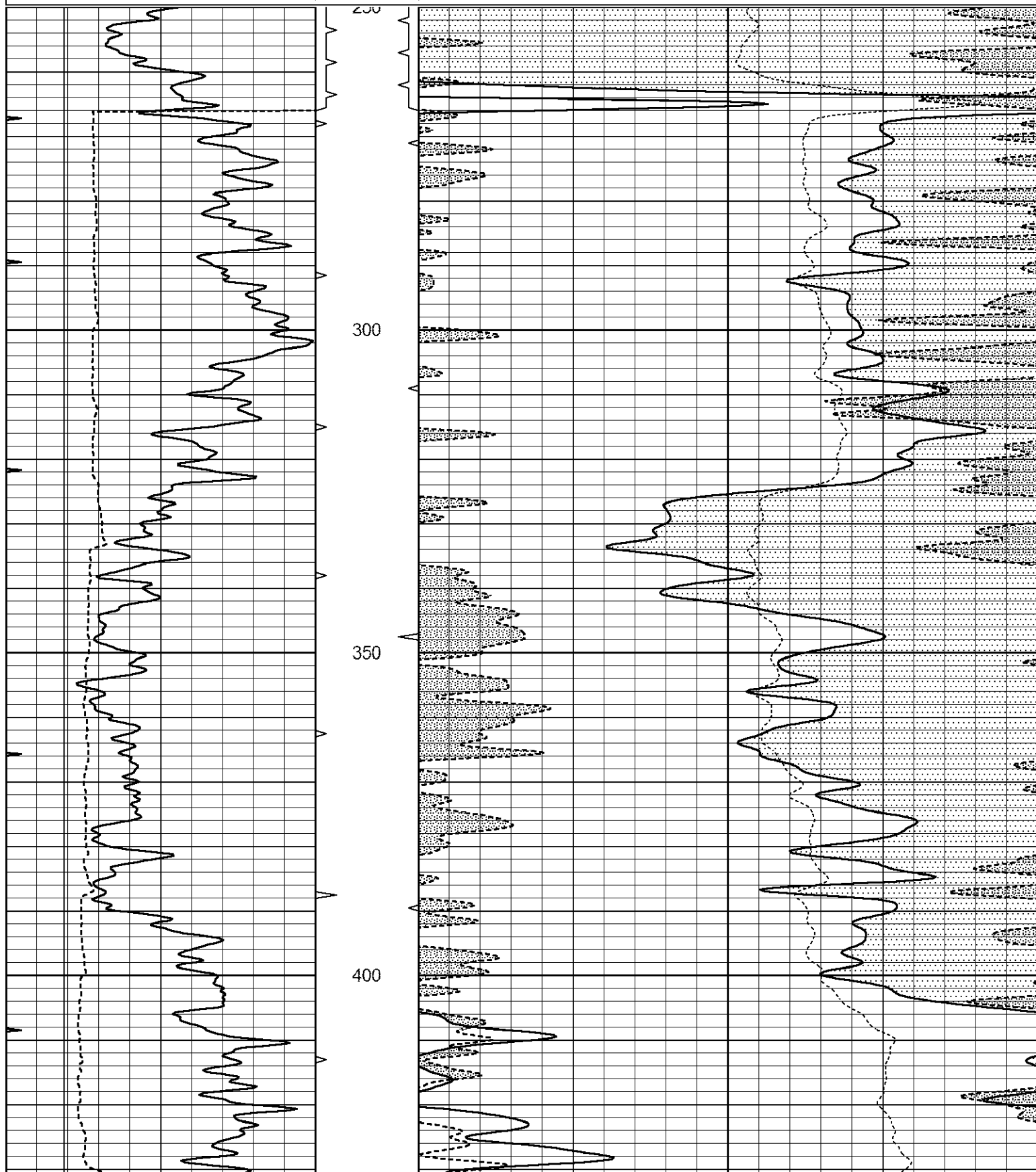
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
WEBSTER DAM RD. & HWY 24 - 2 WEST TO BAIT SHOP ROAD - 1/2 SOUTH - 1/4 EAST
SOUTH INTO

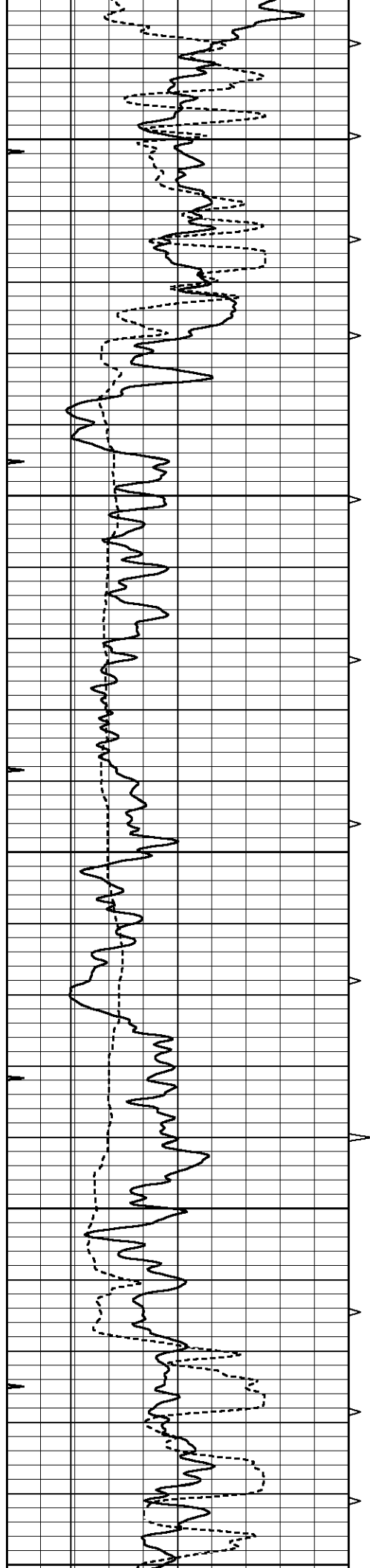


MAIN SECTION

Database File 2503ddn8.db
Dataset Pathname pass3.1
Presentation Format _den_neu
Dataset Creation Thu May 17 21:15:03 2018
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			





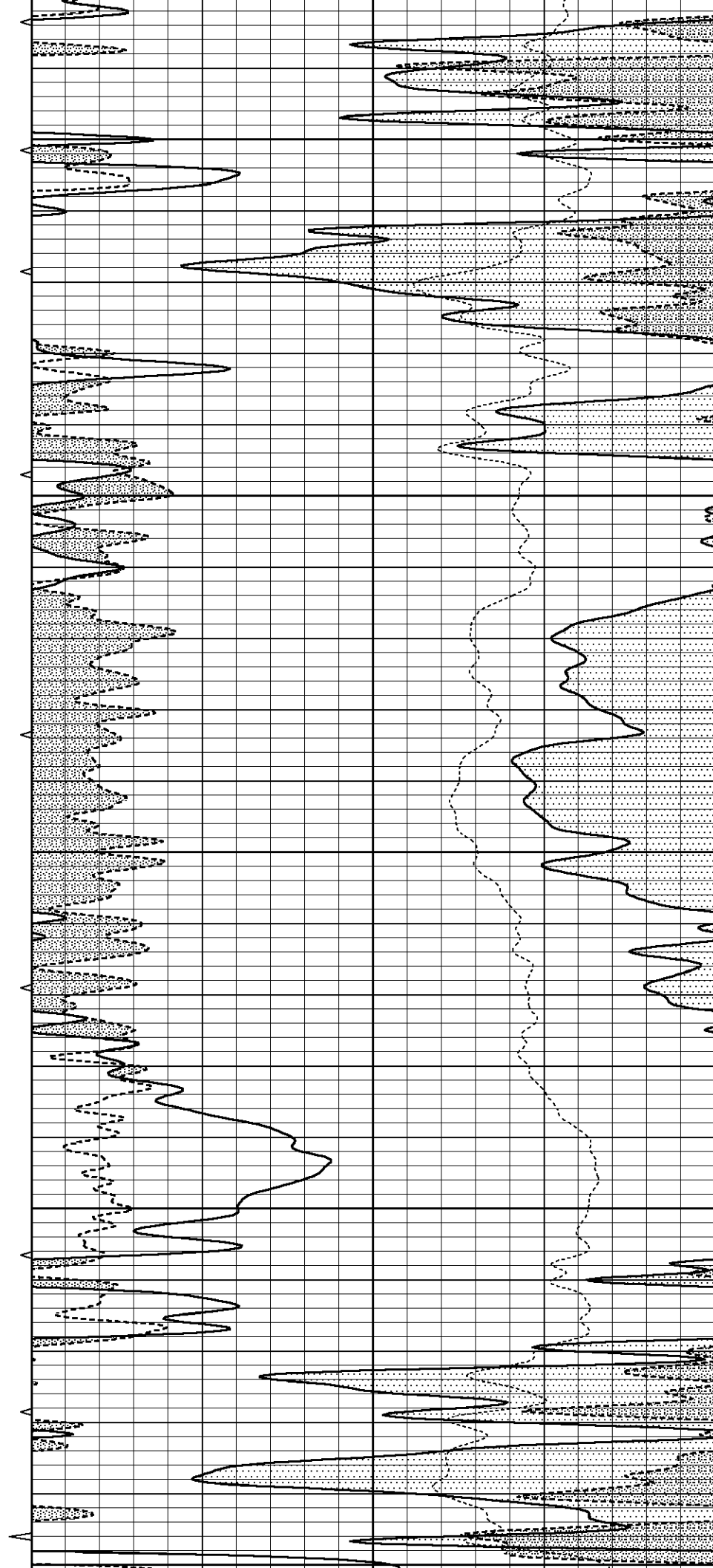
450

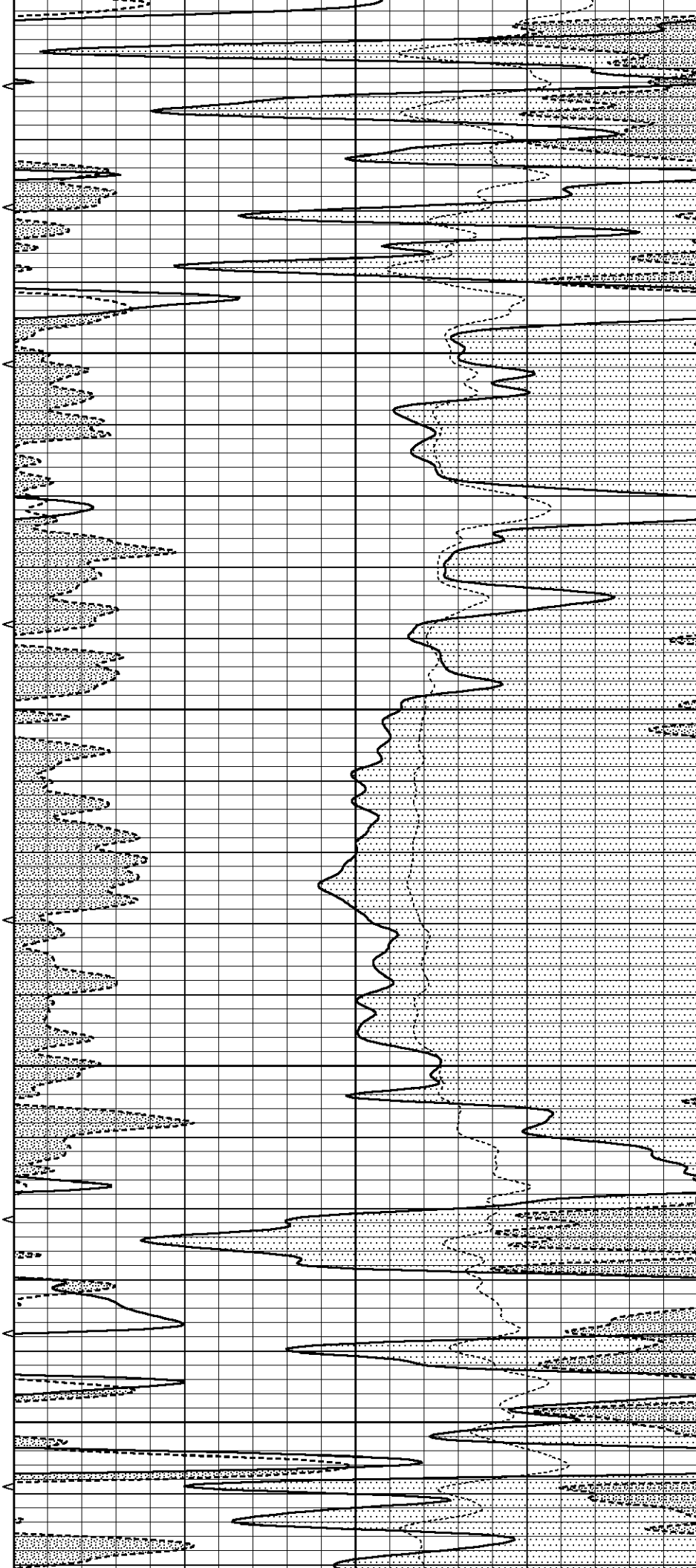
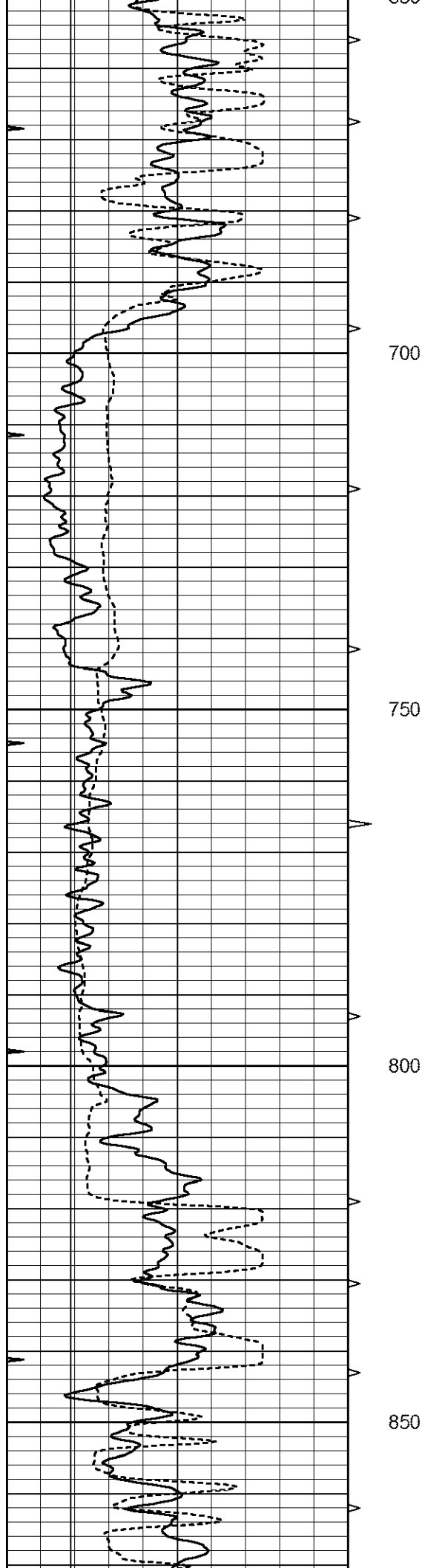
500

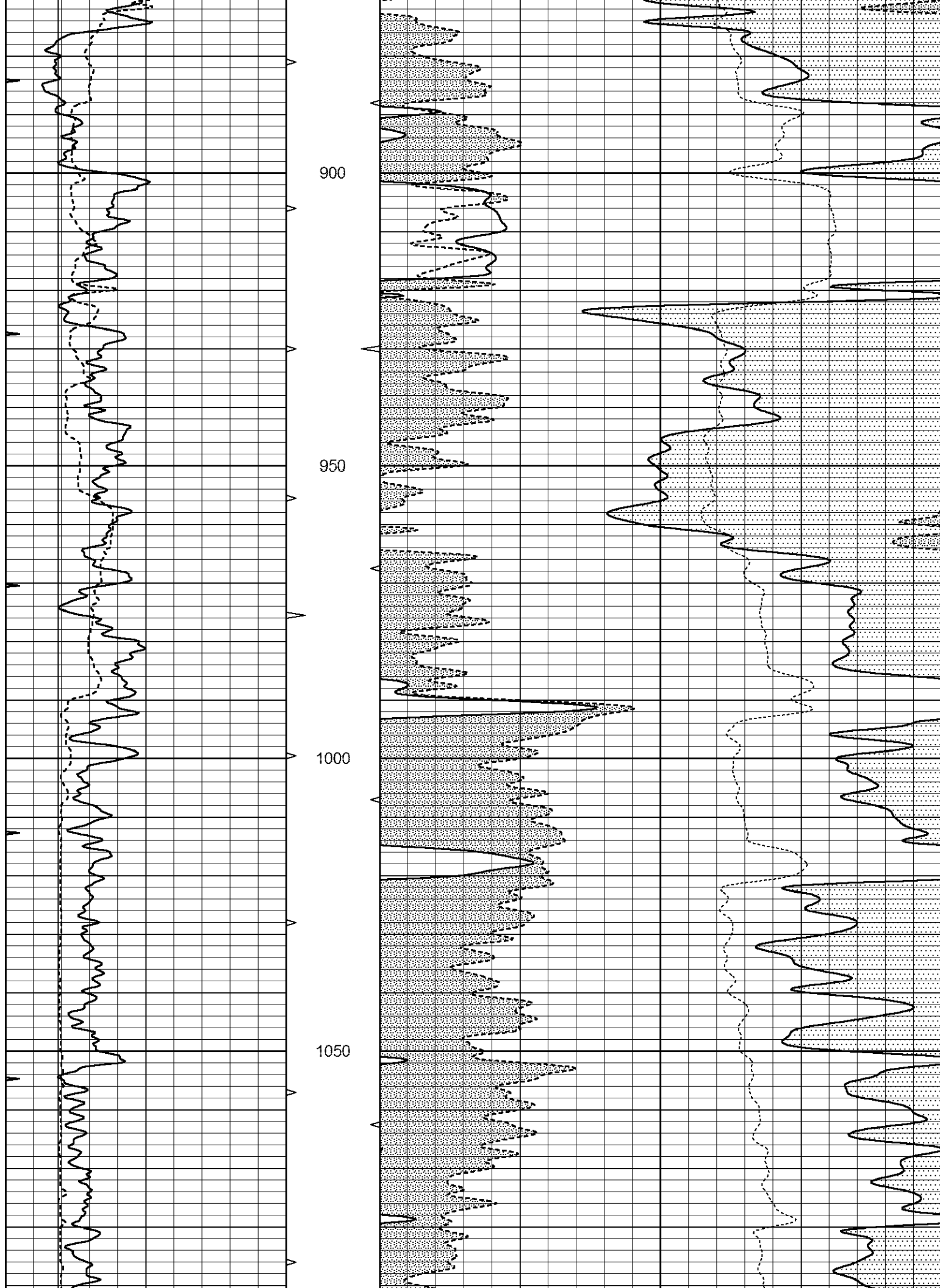
550

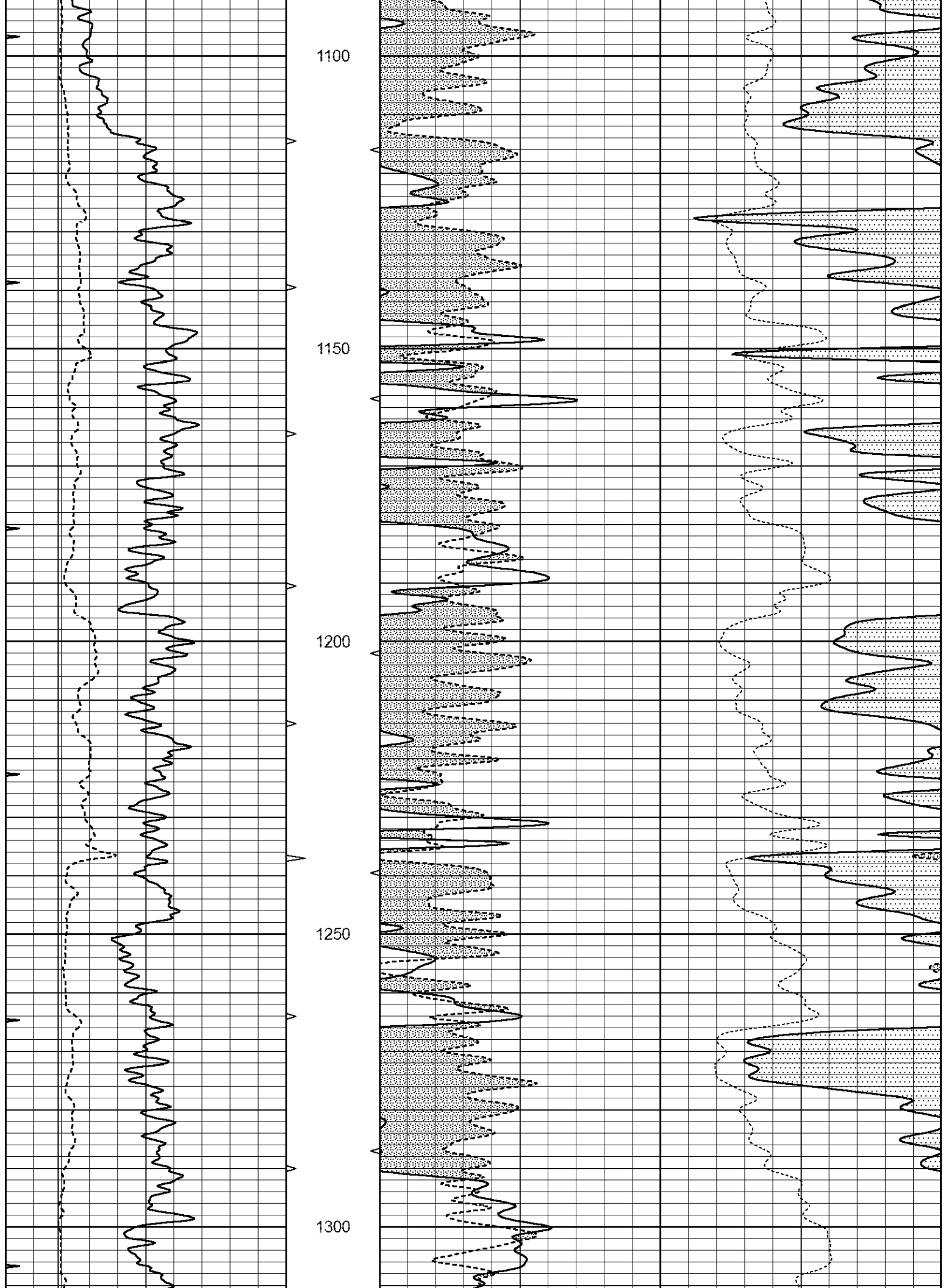
600

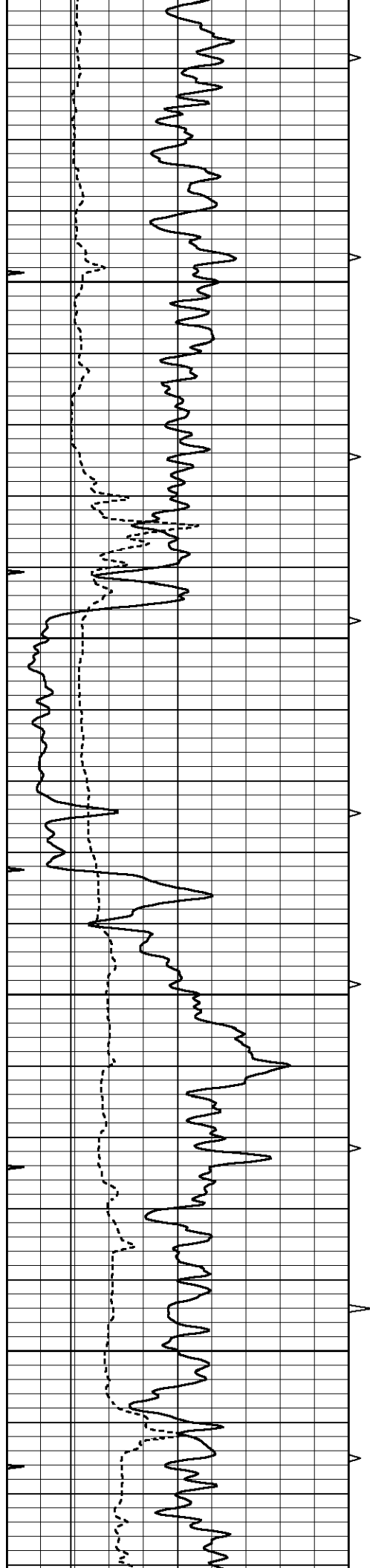
650









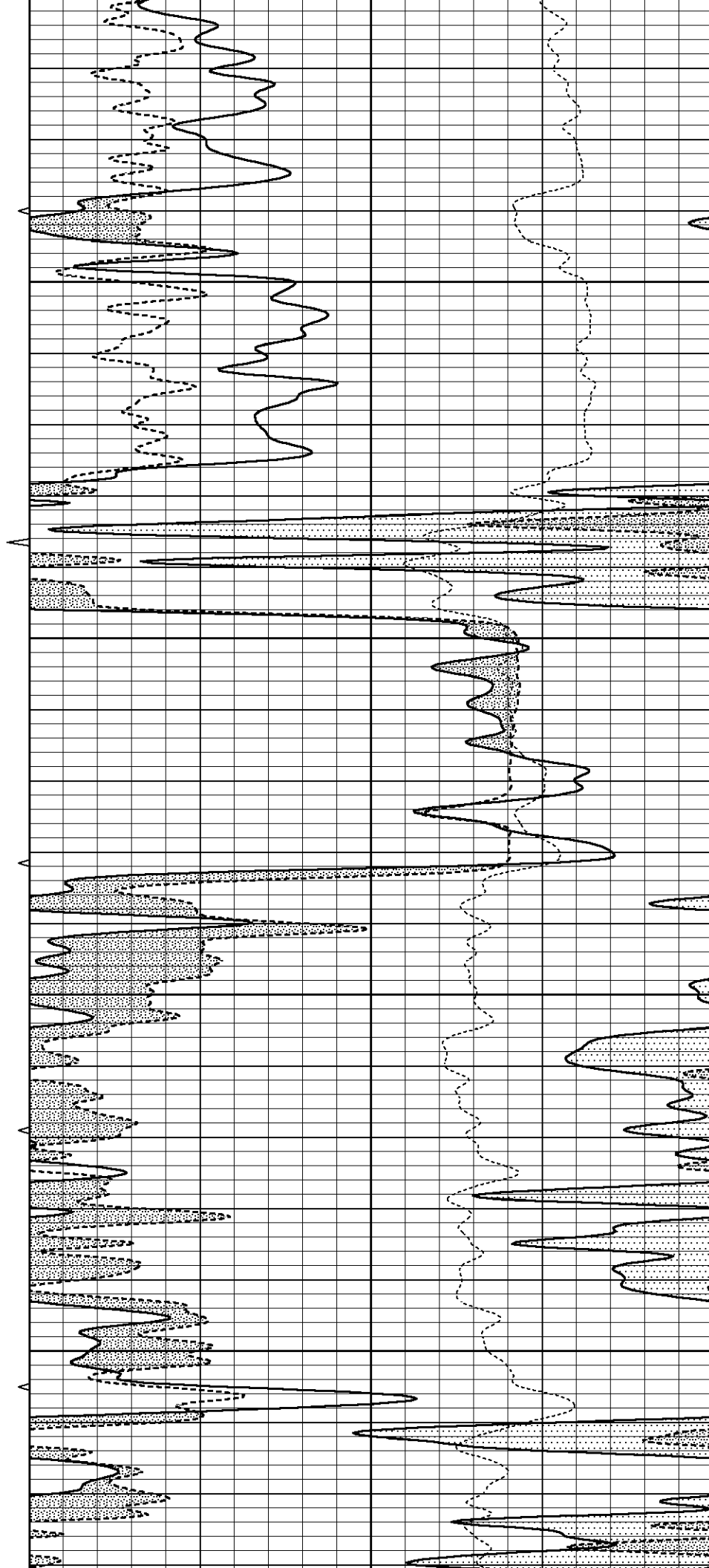


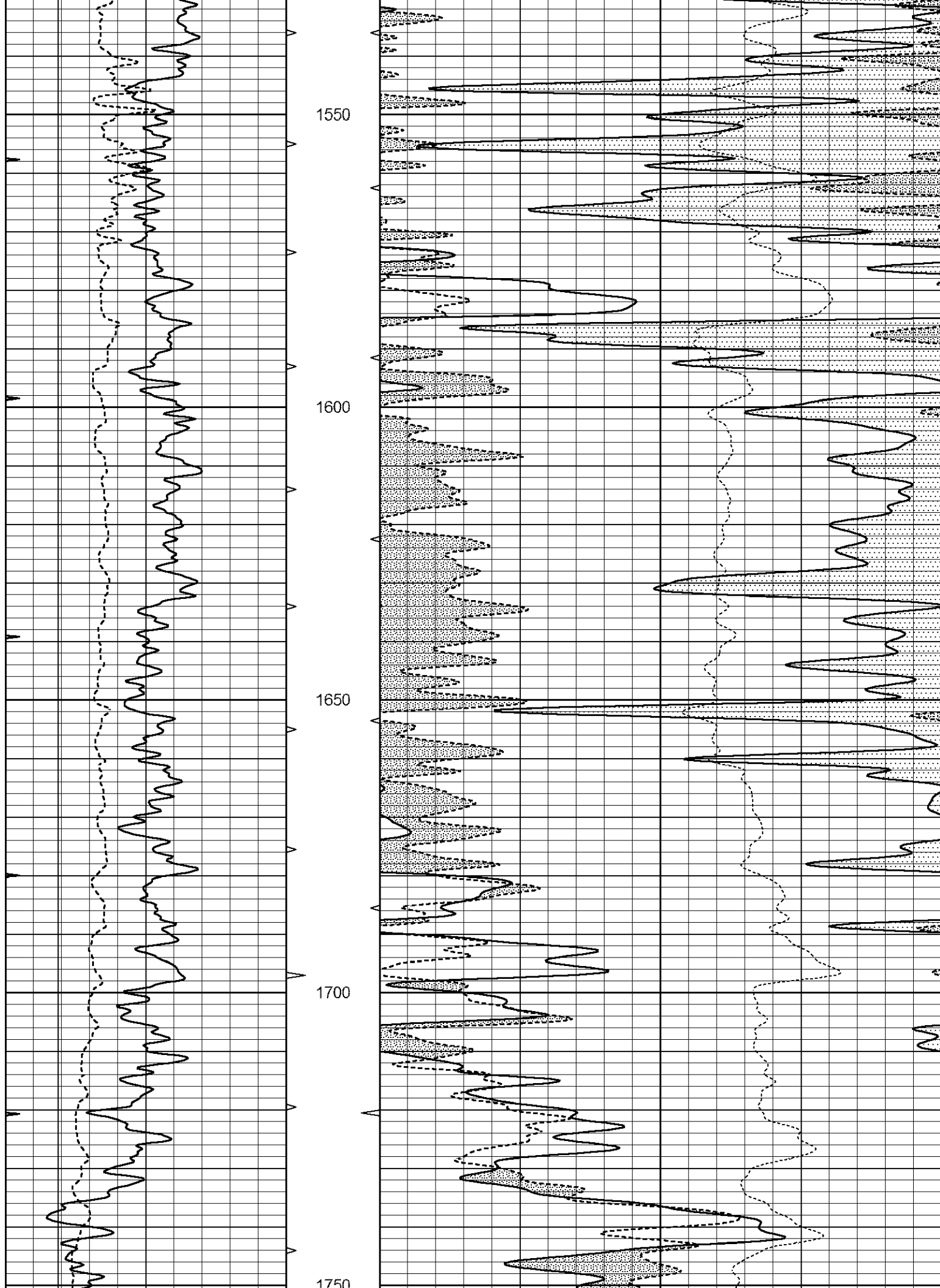
1350

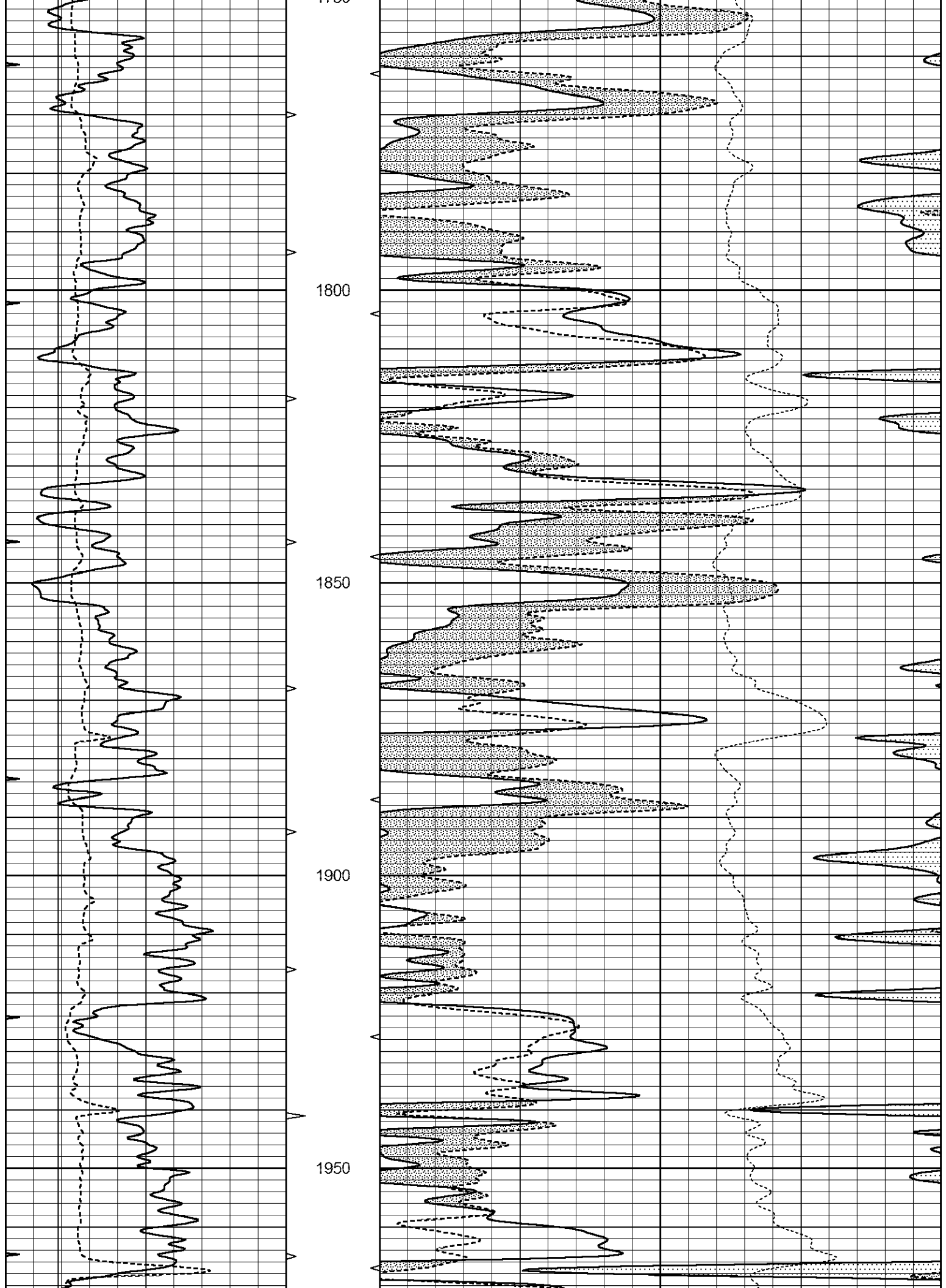
1400

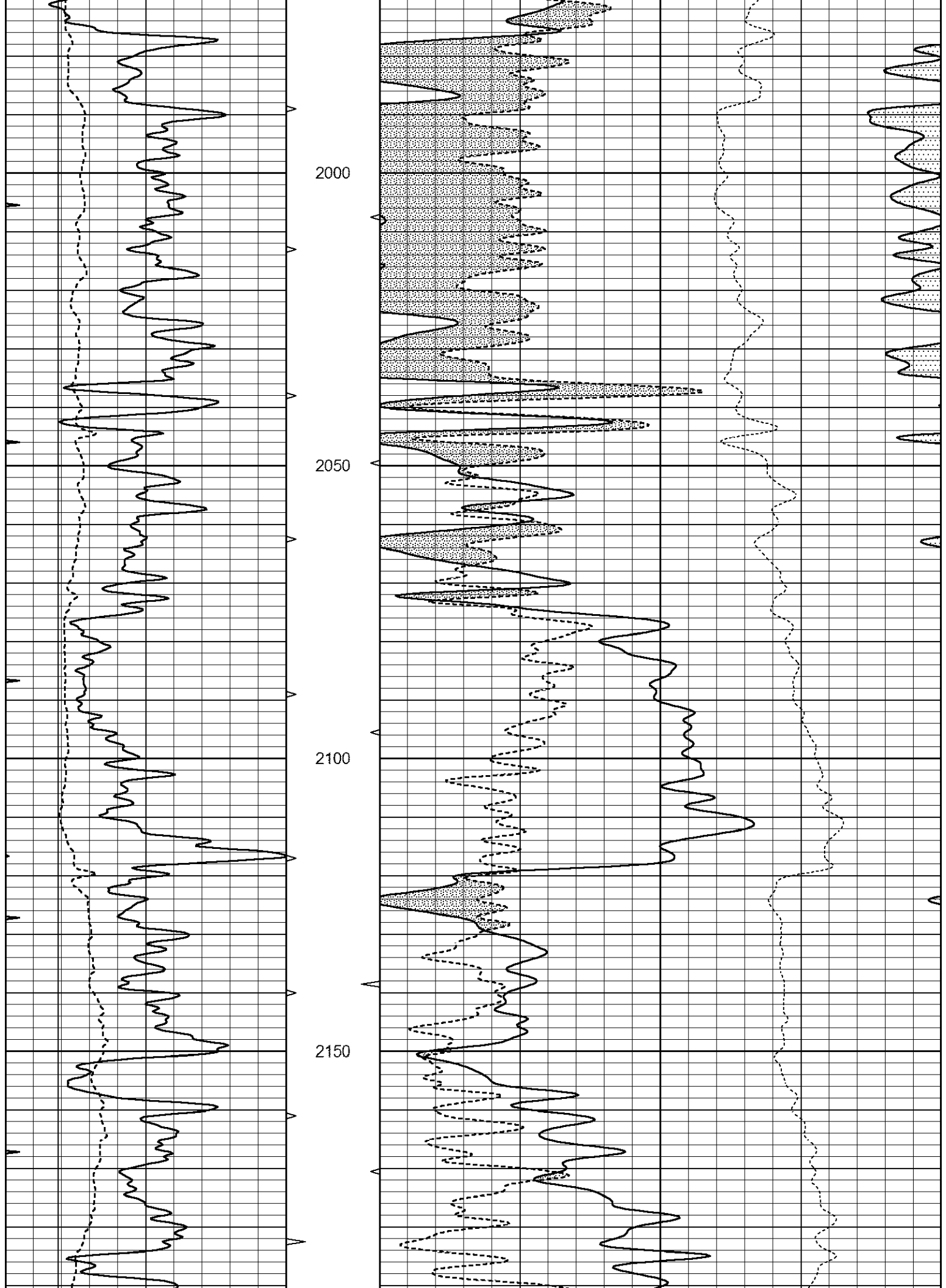
1450

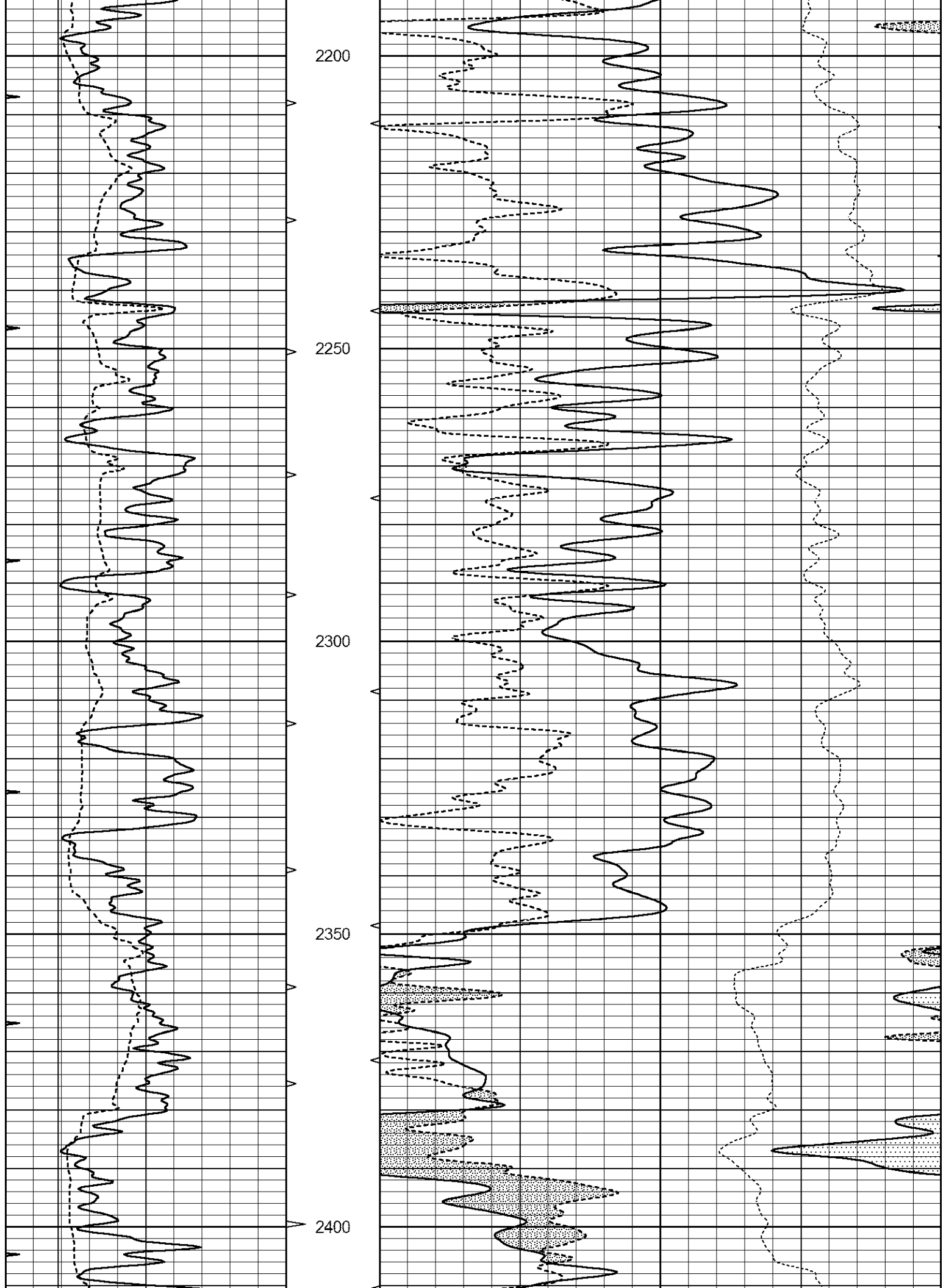
1500

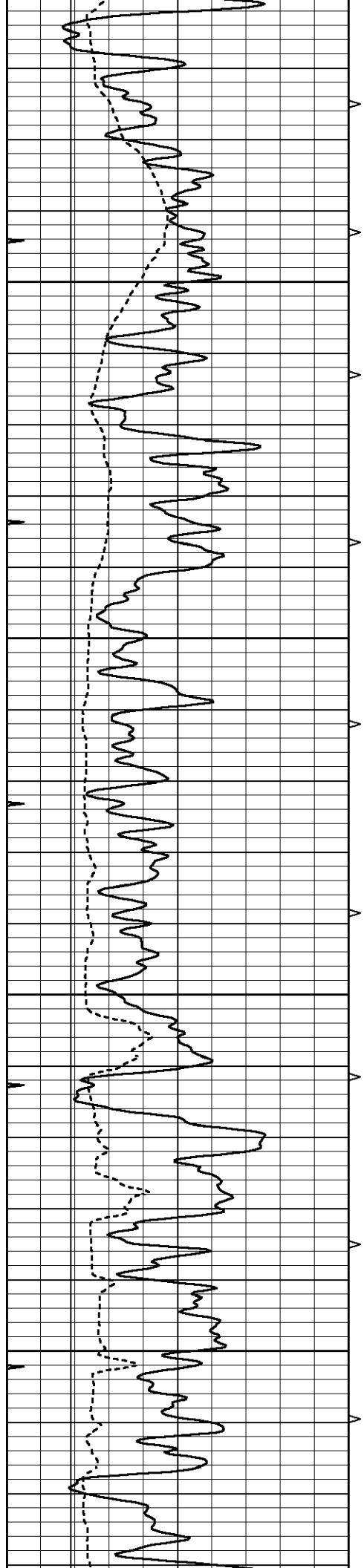










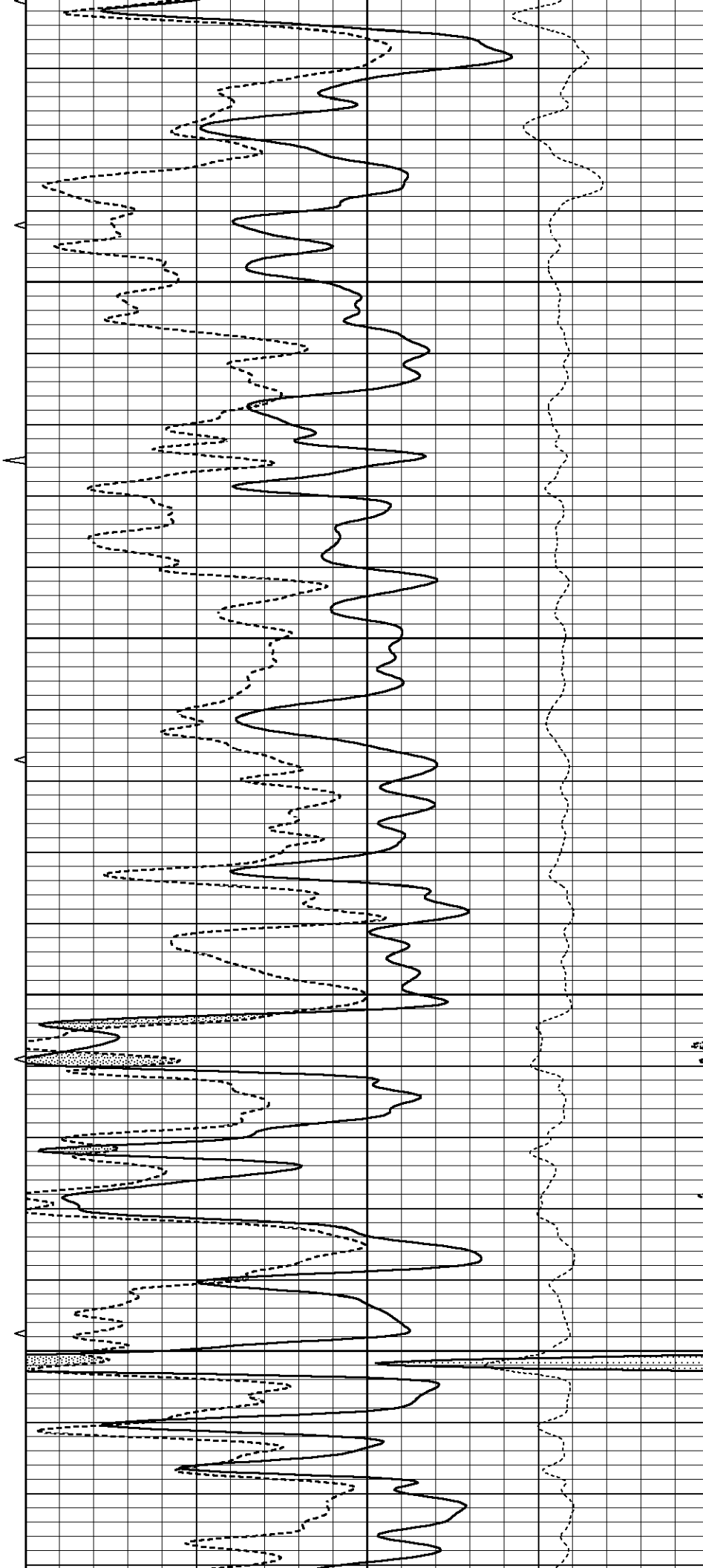


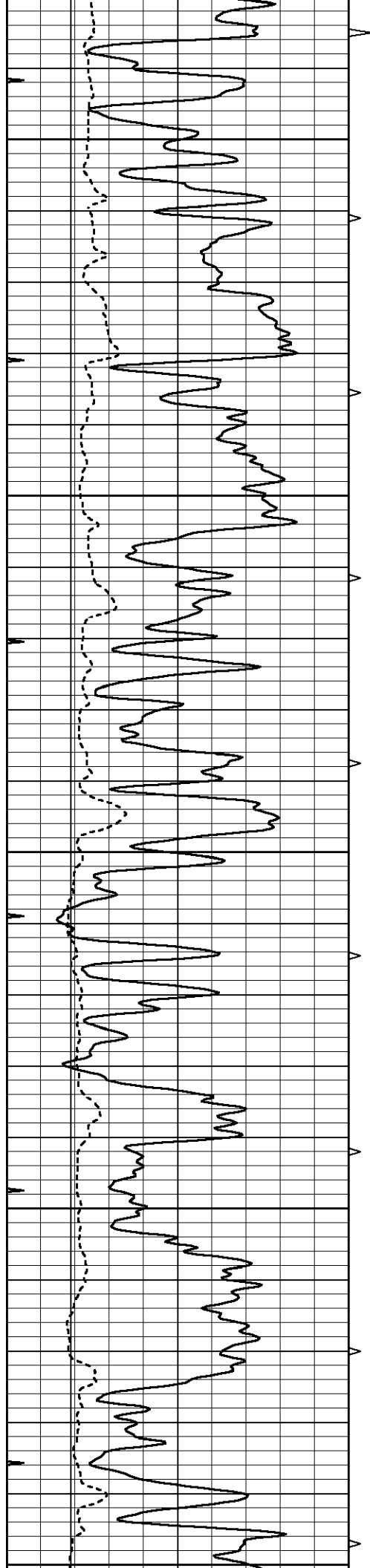
2450

2500

2550

2600





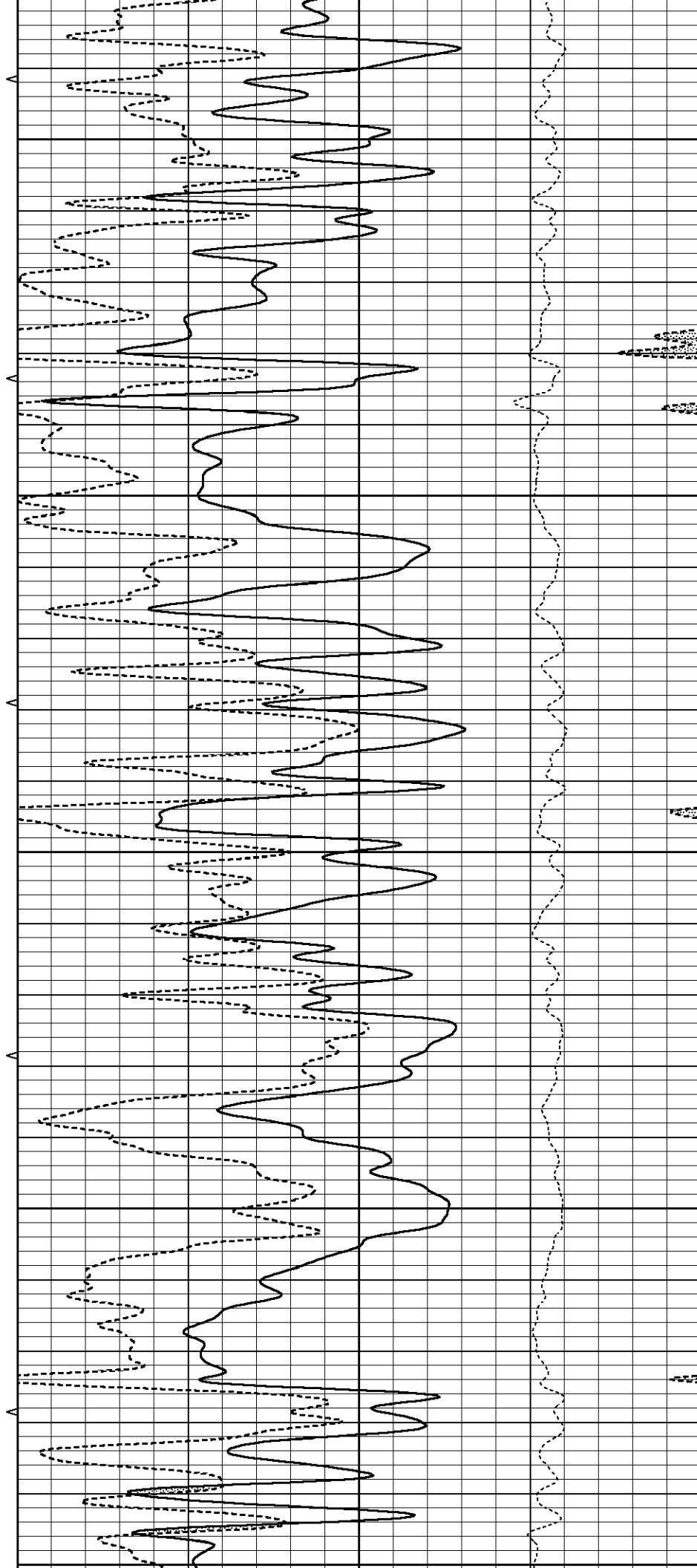
2650

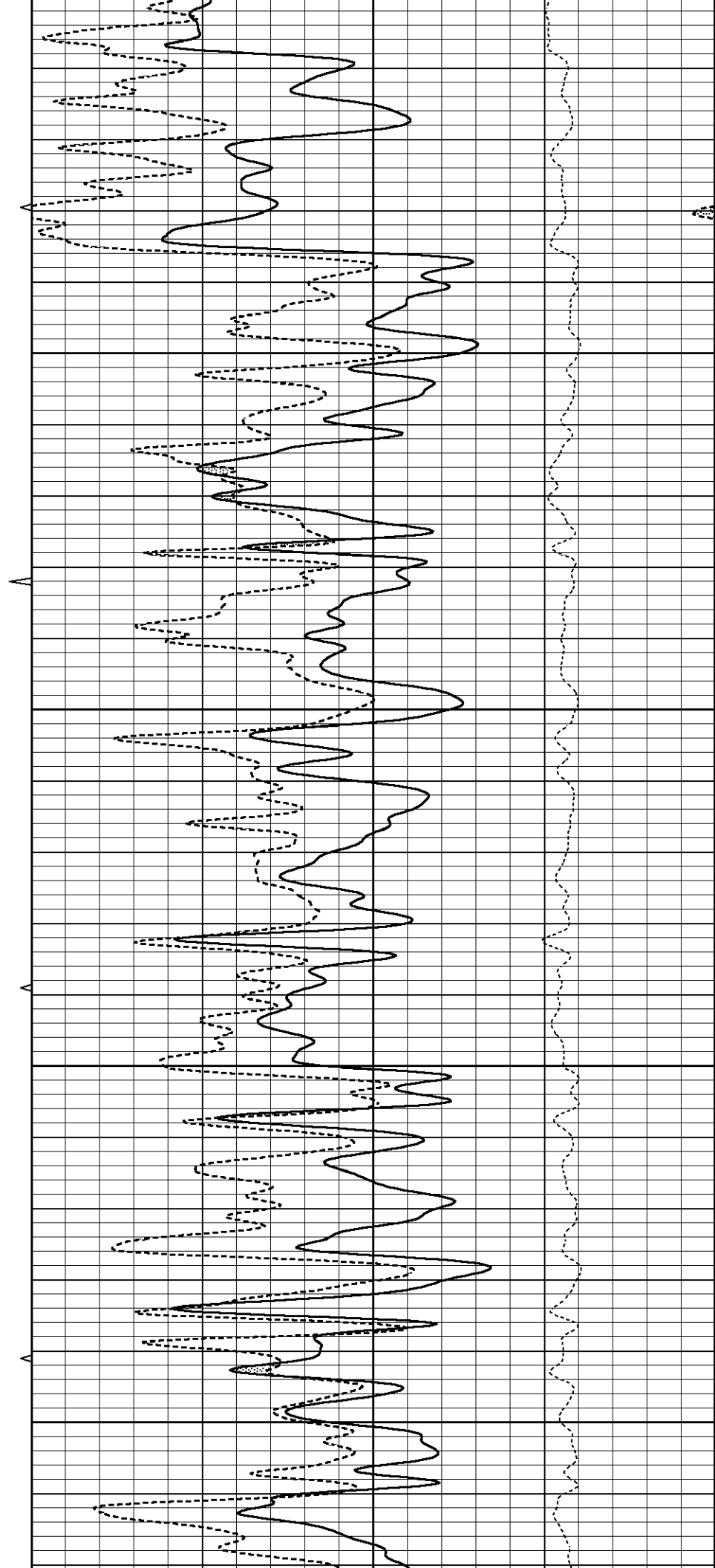
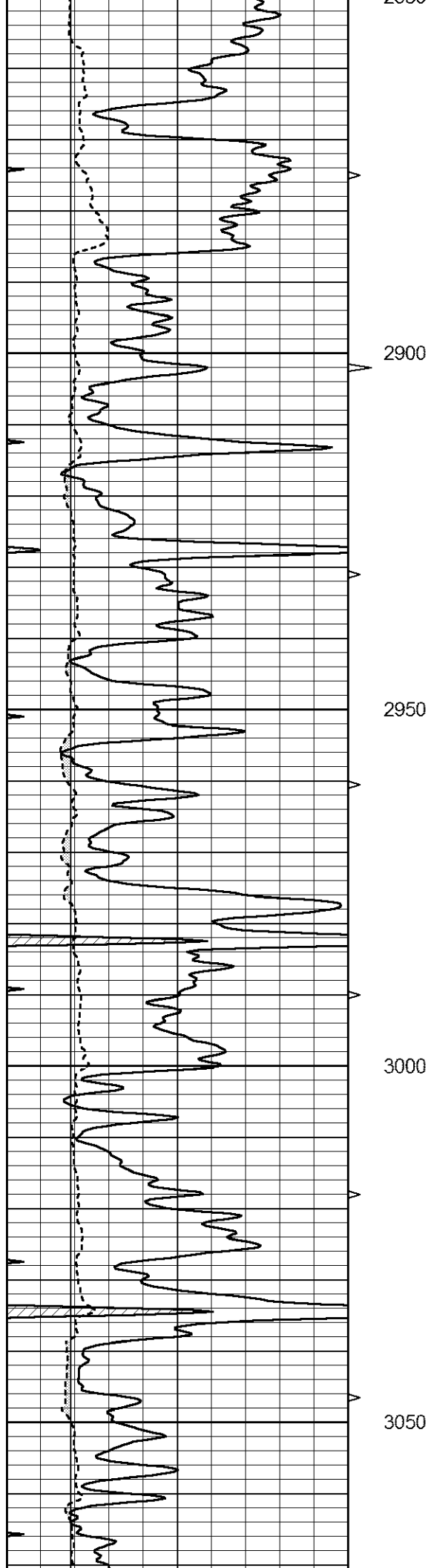
2700

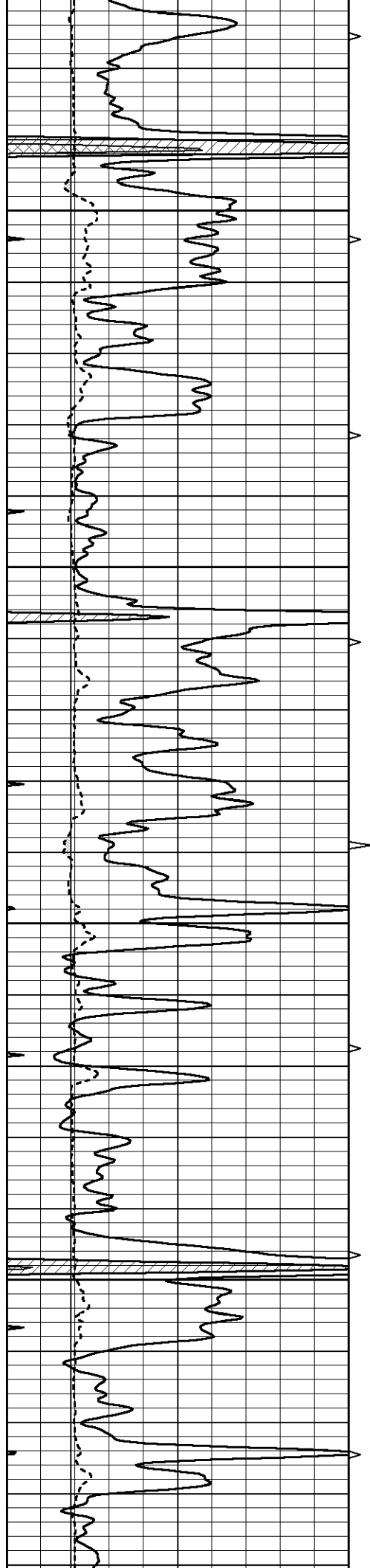
2750

2800

2850





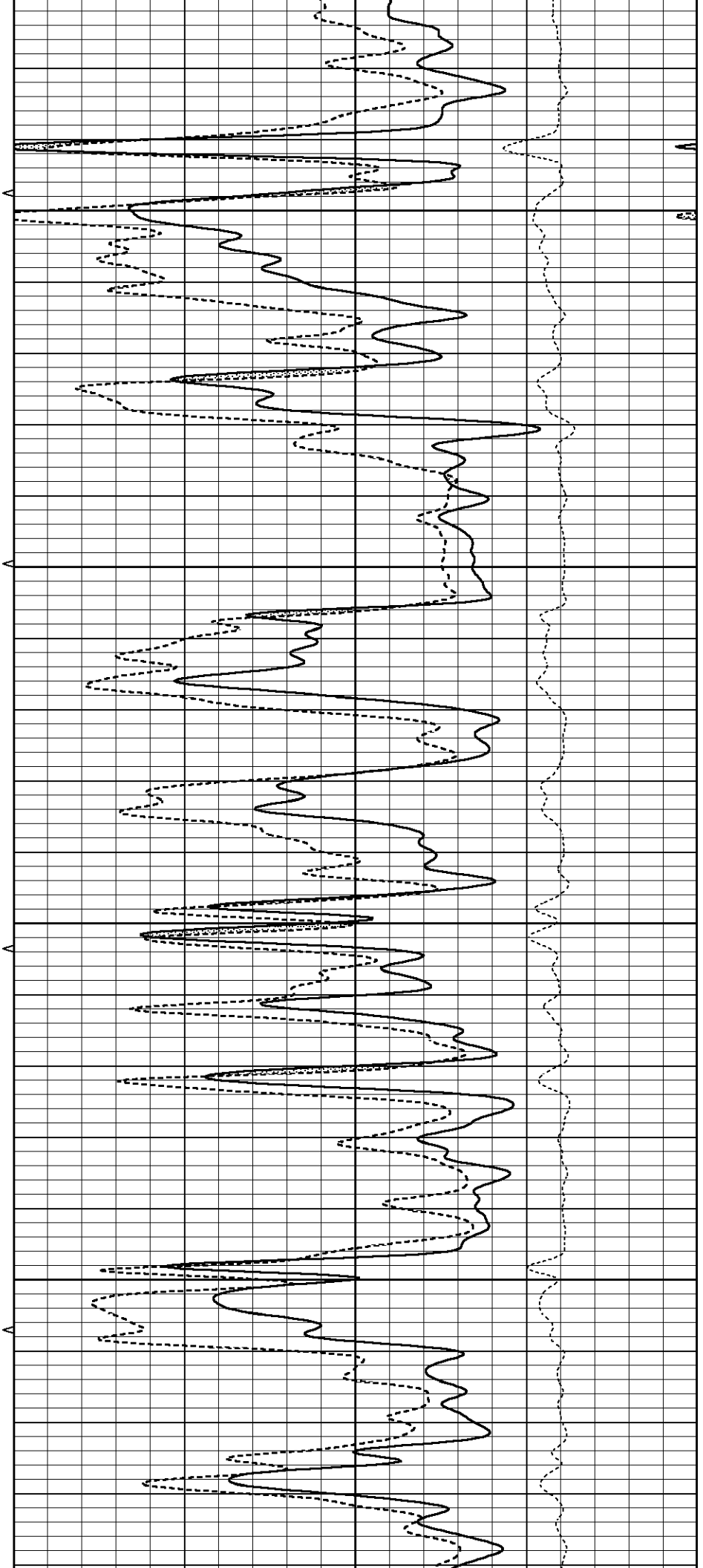


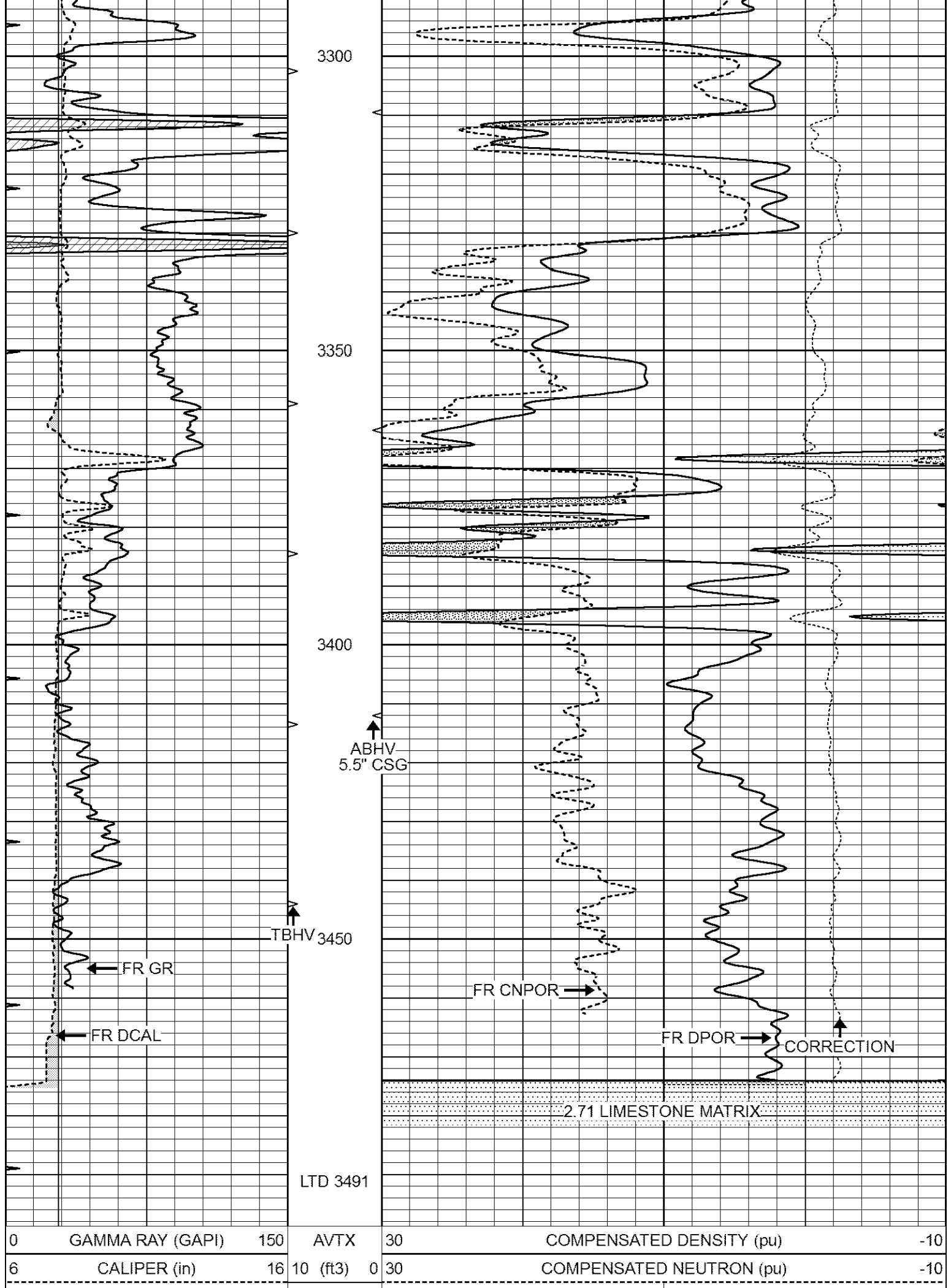
3100

3150

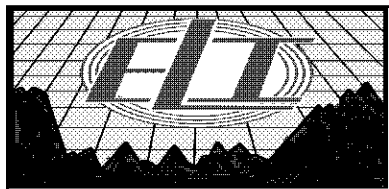
3200

3250





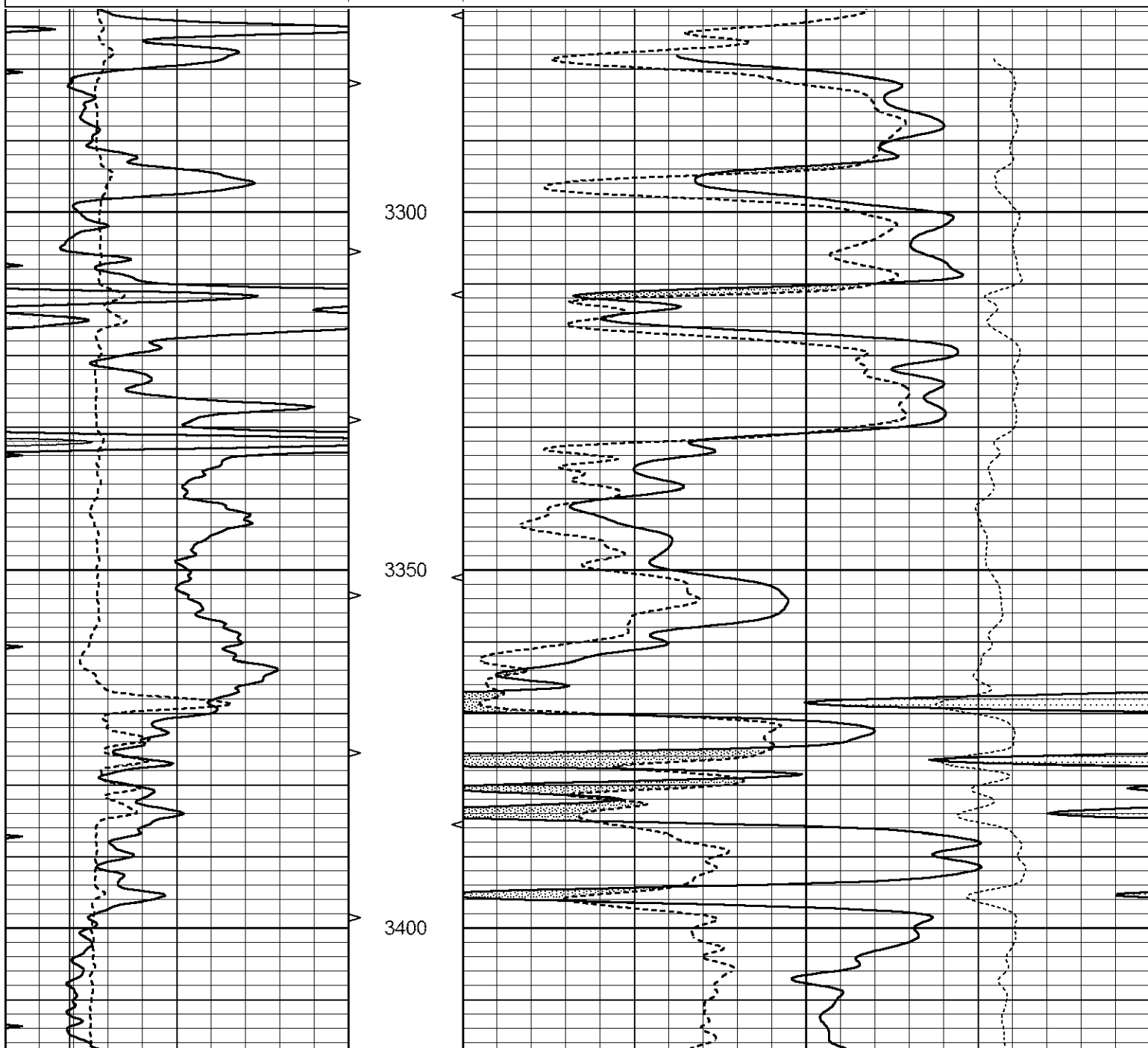
0	MINMK	20	BVTX	-0.25	CORRECTION (g/cc)	0.25
		0	(ft3) 10			

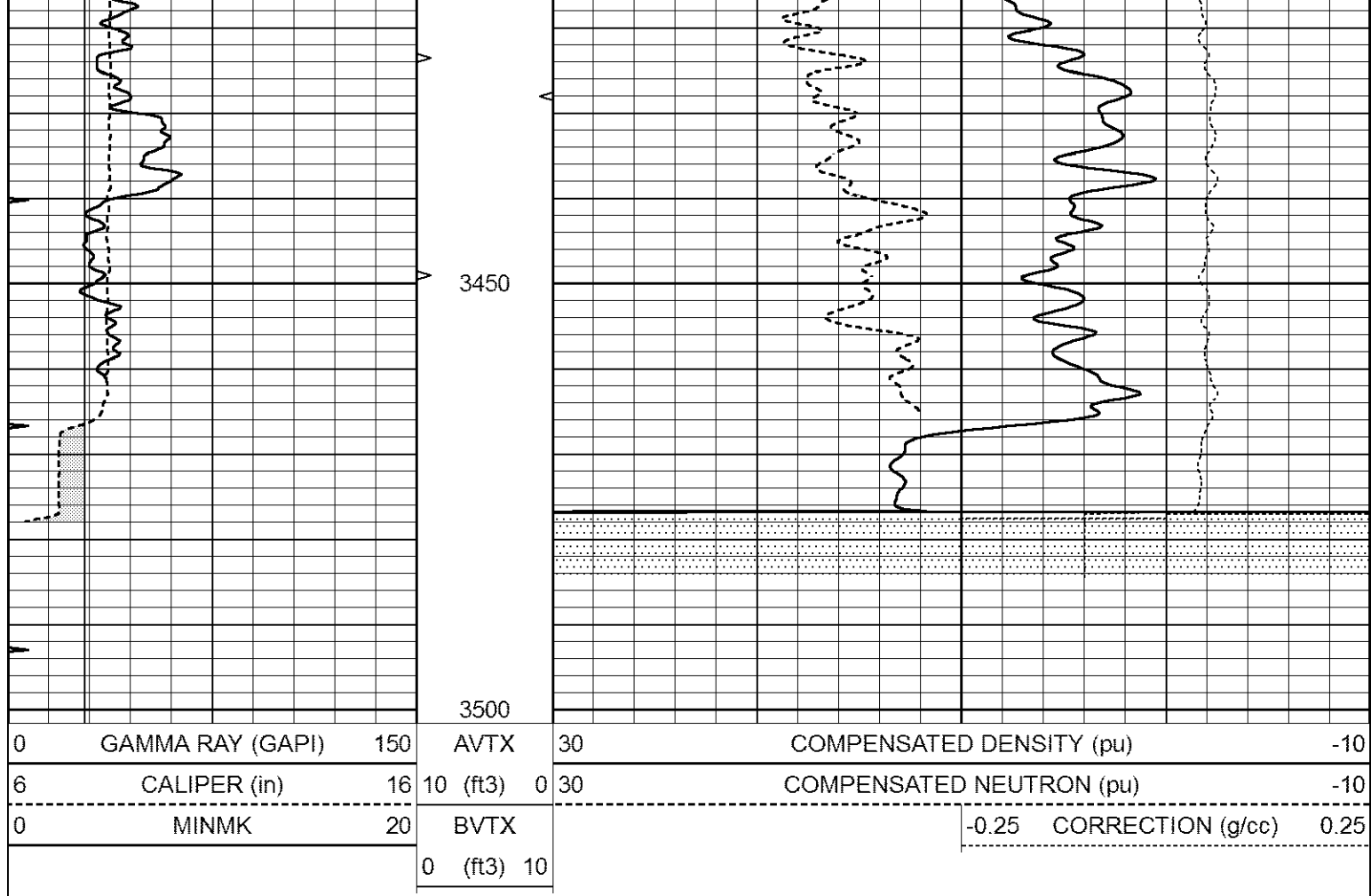


REPEAT SECTION

Database File 2503ddn8.db
Dataset Pathname pass2.2
Presentation Format _den_neu
Dataset Creation Thu May 17 20:57:45 2018
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	BVTX		-0.25	CORRECTION (g/cc) 0.25
		0	(ft3) 10			





Calibration Report

Database File 2503ddn8.db
 Dataset Pathname pass2.2
 Dataset Creation Thu May 17 20:57:45 2018

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Mon May 22 14:23:32 2017
 Downhole Cal Performed: Thu Mar 12 09:29:20 2015
 After Survey Verification Performed: Thu Mar 12 09:29:20 2015

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration

Readings				References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
LL3		7.503	V		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		

		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		
After Survey Verification								
	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Litho Density Calibration Report								
Serial: 140704								
Model: V4_10P								
Source Number: 74GBq-19								

Master Calibration					Performed: Tue May 15 14:57:29 2018			
	Background		Aluminum		Magnesium			
Window 1	579.21		5570.96		24438.90		cps	
Window 2	46.20		1286.61		6133.51		cps	
Window 4	252.32		1266.98		5265.66		cps	
Window 5	459.26		6111.72		17348.50		cps	
Window 6	143.82		93.53		2950.82		cps	
Window 8	105.39		1481.99		5482.30		cps	
Bulk Density	-		2.6020		1.6830		g/cc	
Pe	-		3.0000		2.5070		b/e	
LS Alpha:	: -1.8256		SS Alpha:	: -1.5335		LS CPE:	: 1.1070	
LS Beta:	: 120572.4277		SS Beta:	: 76415.4950		SS CPE:	: -24.5848	

Before Survey Background Counts Verification					Performed: Wed Dec 31 18:00:00 1969			
Window 1	0.00		cps					
Window 2	0.00		cps					
Window 4	0.00		cps					
Window 5	0.00		cps					
Window 6	0.00		cps					
Window 8	0.00		cps					

After Survey Background Counts Verification					Performed: Wed Dec 31 18:00:00 1969			
Window 1	0.00		cps					
Window 2	0.00		cps					
Window 4	0.00		cps					
Window 5	0.00		cps					
Window 6	0.00		cps					
Window 8	0.00		cps					

Lithodensity Caliper Calibration					Performed: Tue May 15 14:57:29 2018			
Results	Readings			References (in)				
	Low	High		Low	High		Gain	Offset
	1107.5	7124.1		8.0	15.0		0.0	6.3

Before Survey Caliper Verification					Performed:			
------------------------------------	--	--	--	--	------------	--	--	--

	Reference	Reading
Caliper (in)		
After Survey Caliper Verification		Performed:
	Reference	Reading
Caliper (in)		
Compensated Neutron Calibration Report		
	Serial Number:	080621PMC
	Tool Model:	NABORS
PRE-SURVEY VERIFICATION		
Detector	Readings	Measured Target
Short Space	cps	pu
Long Space	cps	pu
POST-SURVEY VERIFICATION		
Detector	Readings	Measured Target
Short Space	cps	pu
Long Space	cps	pu
Gamma Ray Calibration Report		
Serial Number:	070558	
Tool Model:	Probe1	
Performed:	Tue Jul 25 12:16:33 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.4000	GAPI/cps