

# Reeves

## Compact

Dual Laterolog  
Gamma Ray

1:200 MD

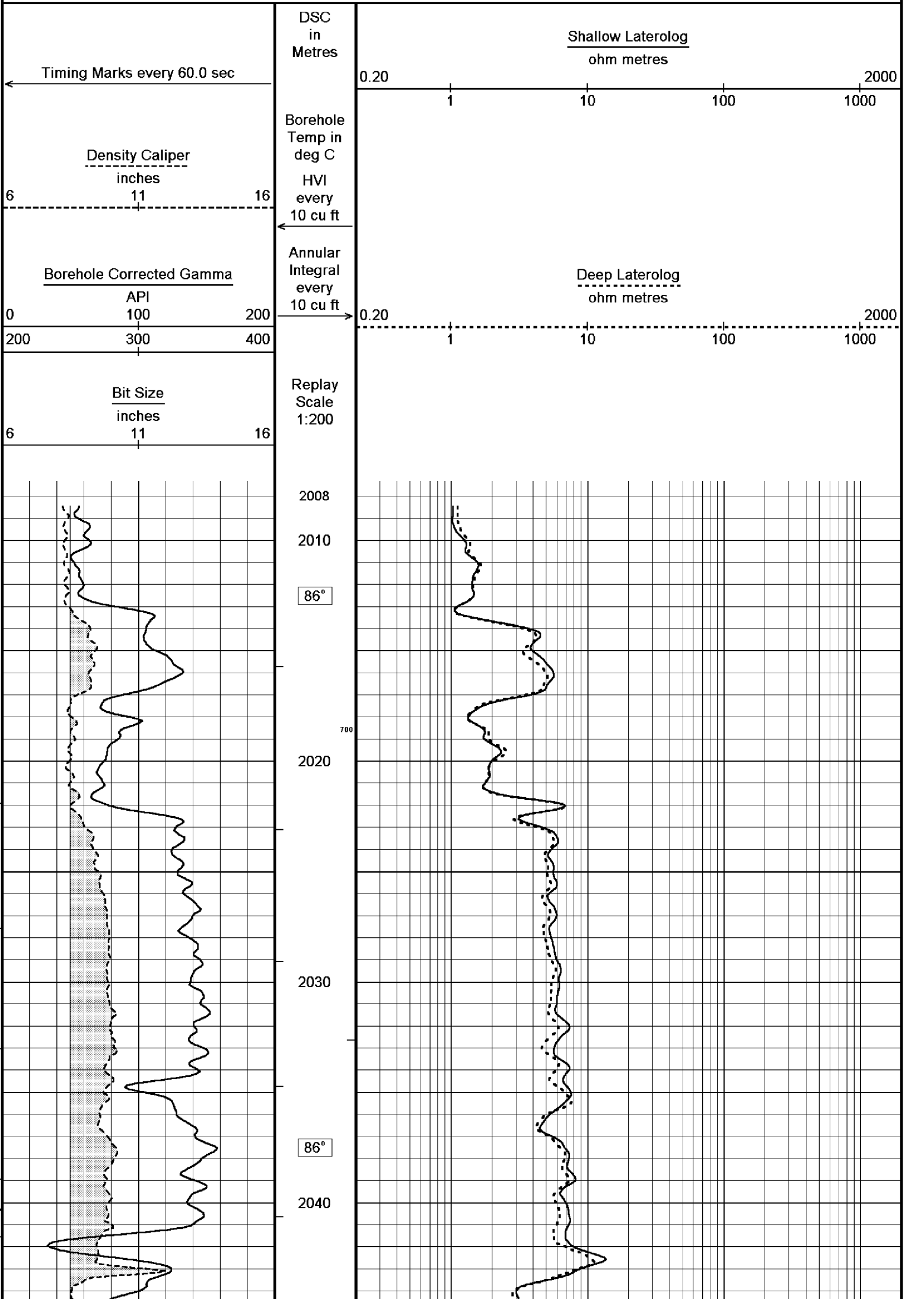
COMPANY				ESSO AUSTRALIA PTY. LTD.			
WELL				MARLIN A24A			
FIELD				TURRUM			
PROVINCE/COUNTY				BASS STRAIT			
COUNTRY/STATE				AUSTRALIA			
LOCATION				38Ddeg13'49.203"S, 148Ddeg13'15.554"E			
				N 5767923.720 m, E 606865.170 m			
				<b>FINAL PRINT</b>			
LSD	SEC	TWP	RGE	Other Services			
				Photo Density			
API Number	VIC/L11			Compensated Neutron			
Permit Number	VIC/L11			Compensated Sonic			
Permanent Datum MSL	, Elevation 0.0			metres			
Log Measured From RT@27.91 m	above Permanent Datum						
Drilling Measured From RT							
Date	5-MAY-2004						
Run Number	ONE						
Depth Driller	3275.00			metres			
Depth Logger	3270.50			metres			
First Reading	3270.12			metres			
Last Reading	2008.50			metres			
Casing Driller	653.00			metres			
Casing Logger							
Bit Size	8.50			inches			
Hole Fluid Type	KCL/GLY/PPA						
Density / Viscosity	10.15 lb/USg			30.00 CP			
PH / Fluid Loss	8.90			3.00 ml/30Min			
Sample Source	PRESS						
Rm @ Measured Temp	0.137 @ 25.0			ohm-m			
Rmf @ Measured Temp	0.098 @ 25.0			ohm-m			
Rmc @ Measured Temp	0.236 @ 25.0			ohm-m			
Source Rmf / Rmc	FLOW			FLOW			
Rm @ BHT	0.066 @ 75.0			ohm-m			
Time Since Circulation	36 HRS						
Max Recorded Temp	90.60			deg C			
Equipment Name	CWS/CML						
Equipment / Base	1			SALE			
Recorded By	G. MCMANUS, N. PATMAN						
Witnessed By	C. MENHENNIT, L. CULLEN						
Circ. Stopped	1400 4-MAY						

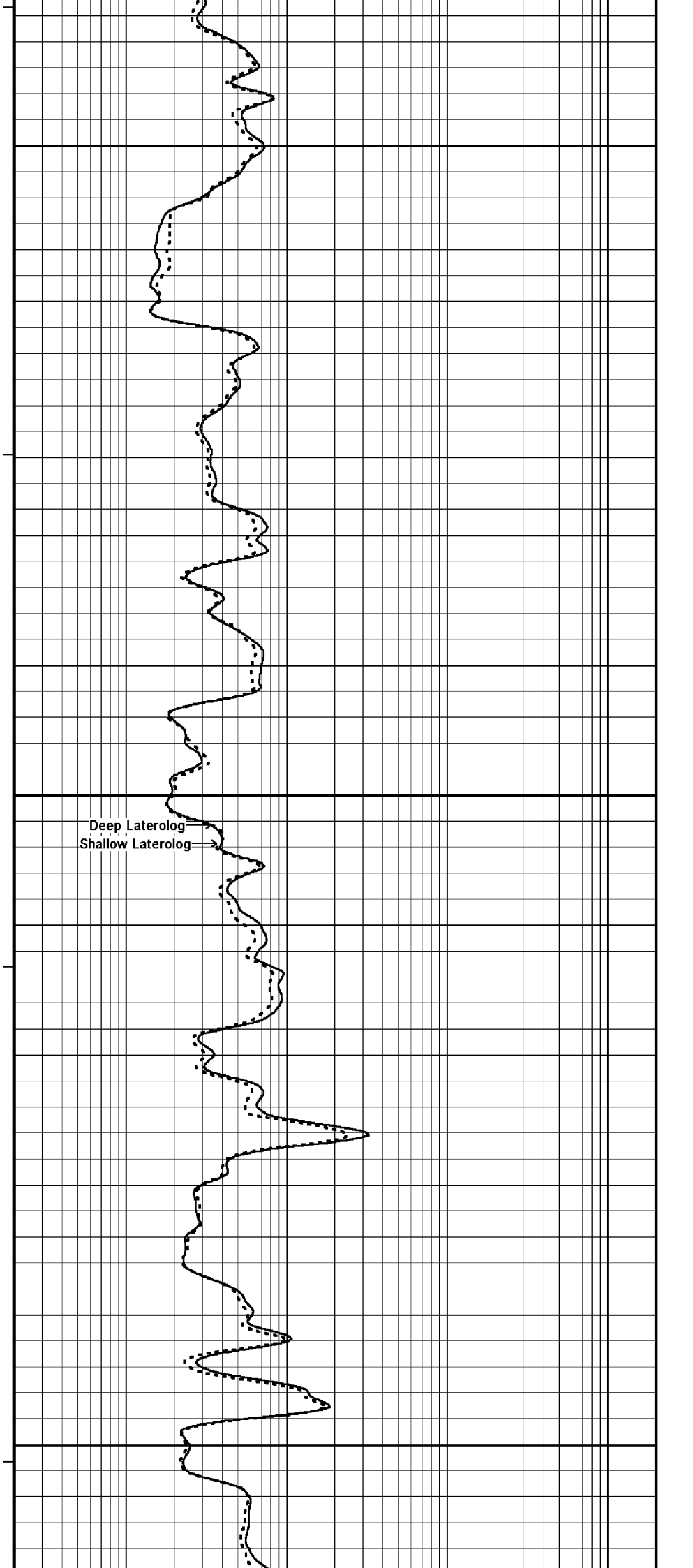
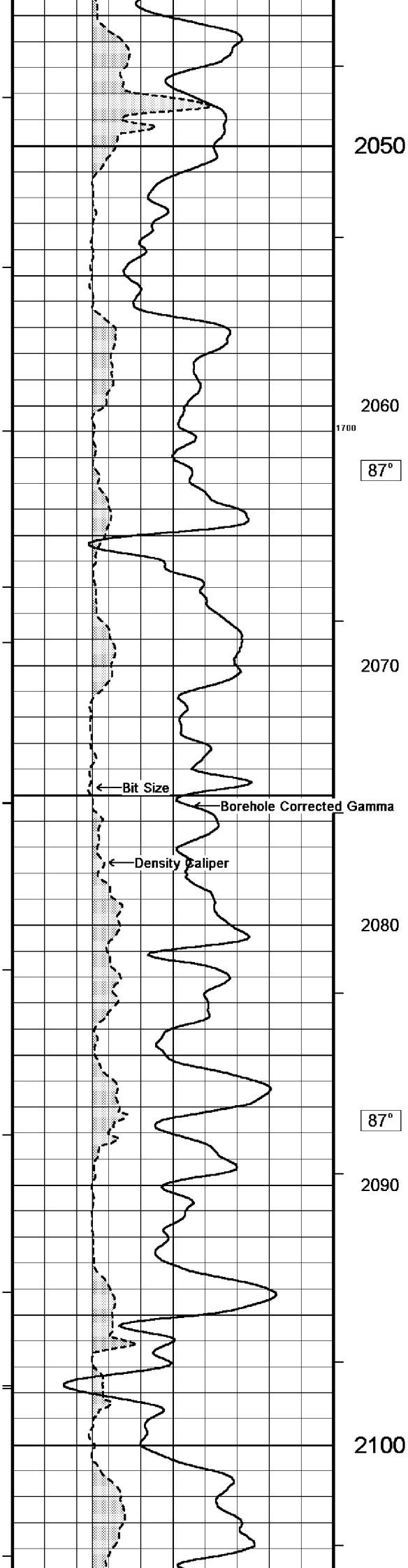
BOREHOLE RECORD		
Bit Size inches	Depth From metres	Depth To metres
8.500	653.000	3275.000

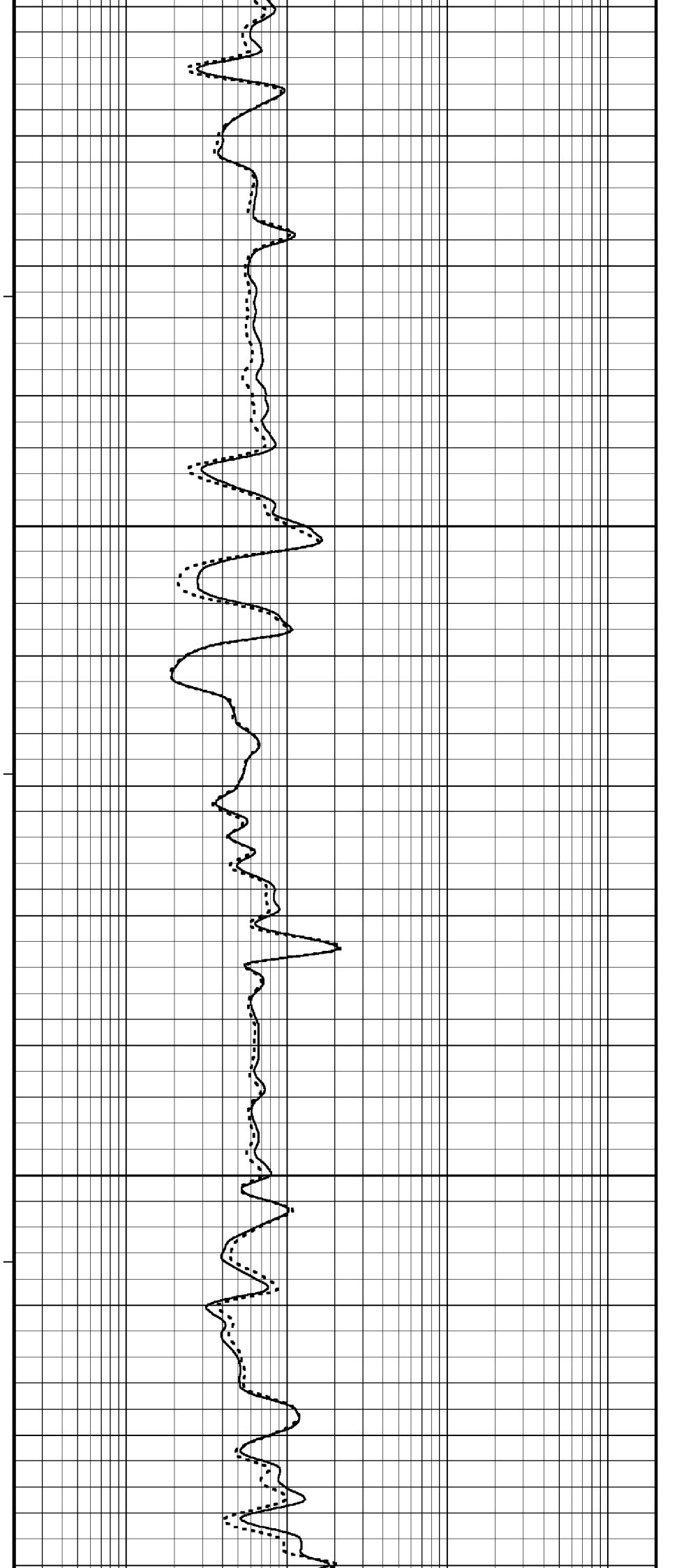
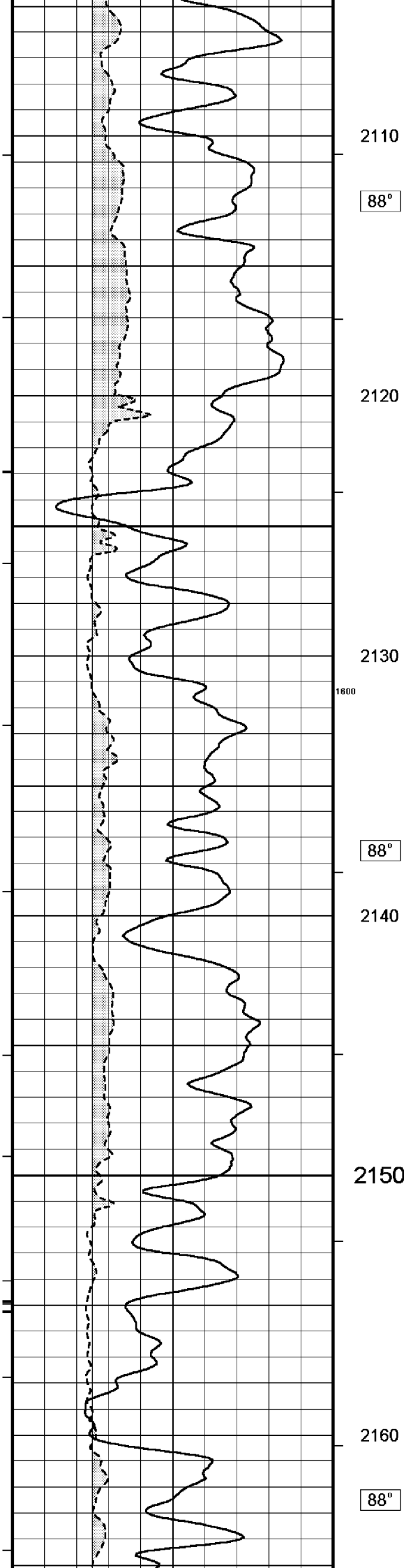
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
SURFACE	13.375	0.000	653.000	0.00
L80	9.625	0.000	653.000	47.00

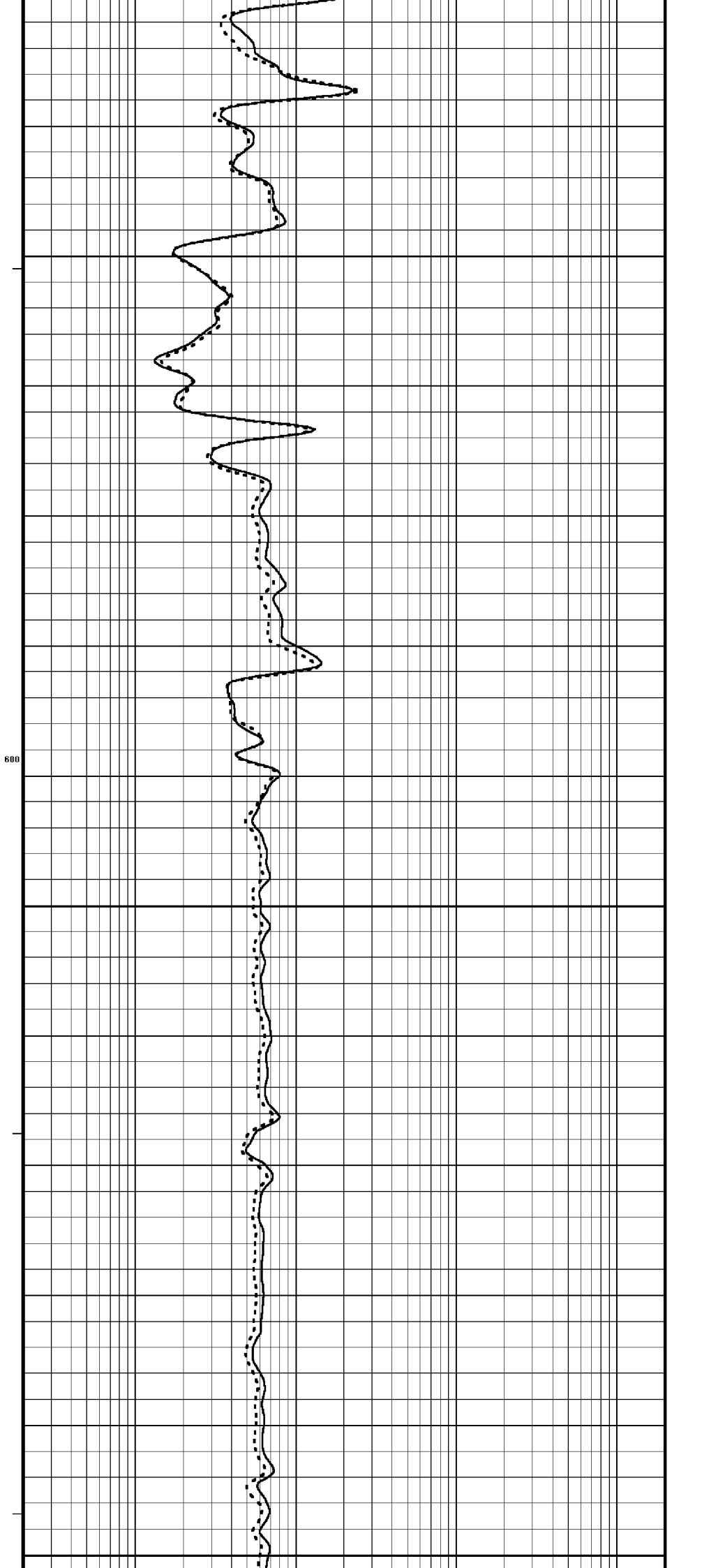
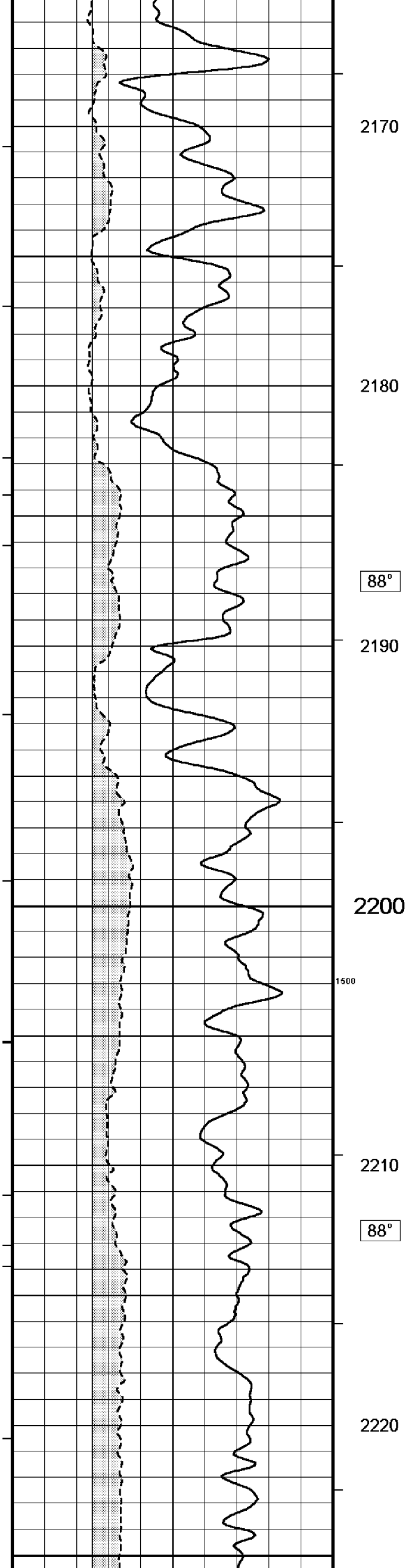
REMARKS
***Miss Run - No data collected above 2008.5 m MD Due To Battery Failure***
Rig Nabors 453
5" SHUTTLE - MEMORY LOGGING
5-MAY-04
Crew: G McManus, N Patman, M Susa, B Goodwin
Logs depth corrected -1.1m to correlate with Anadrill gamma log.
AVERAGE INCLINATION: 38° FROM WINDOW TO TD
MAXIMUM INCLINATION: 42.38° @ 3162.70 mMD
MAXIMUM DOGLEG SERVERITY: 5.53°/30m @ 780.54
MAXIMUM TEMPERATURE: 90.6°C @ 2654.30 mMD

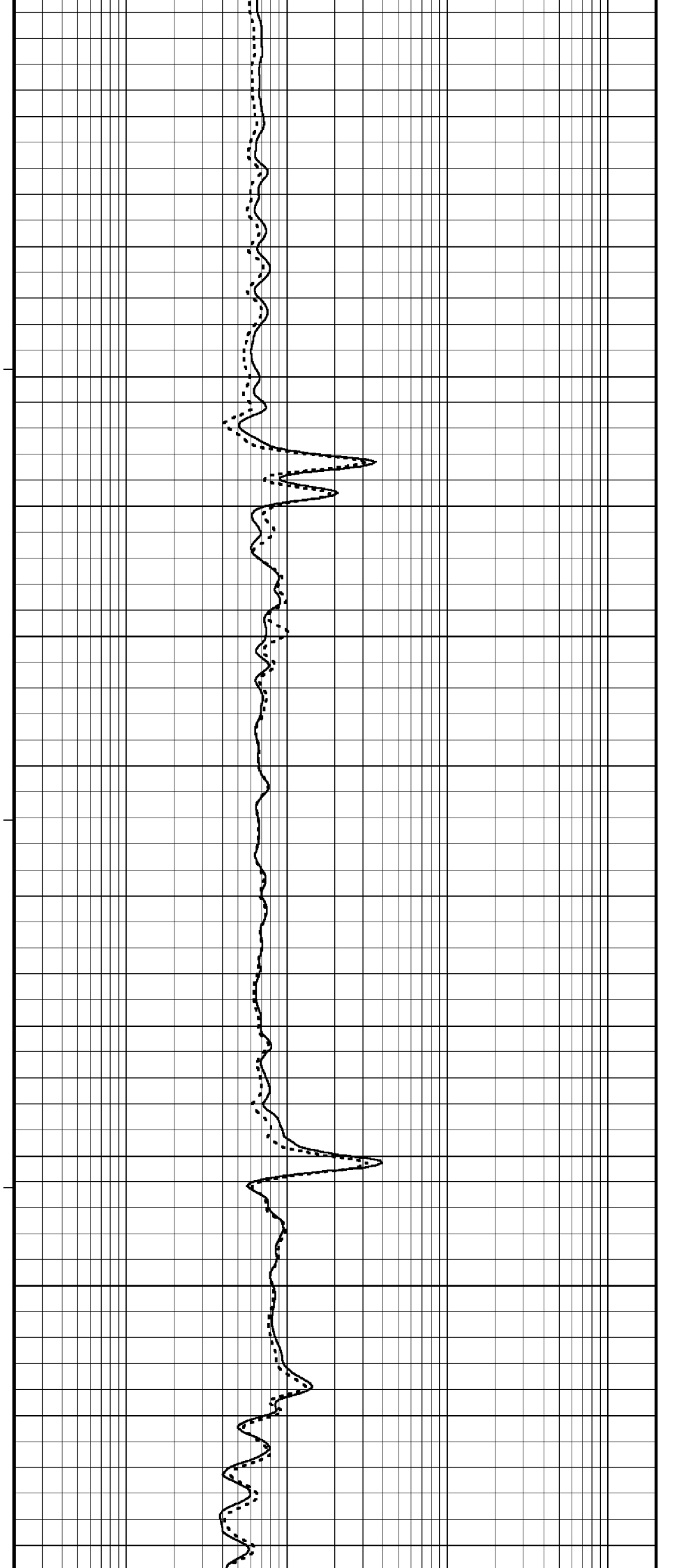
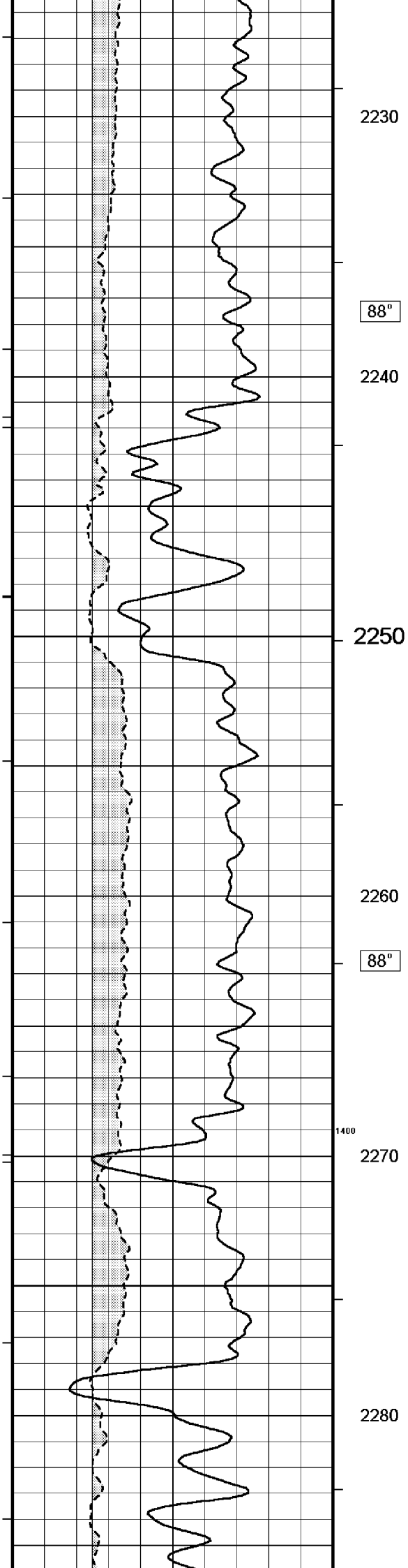
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

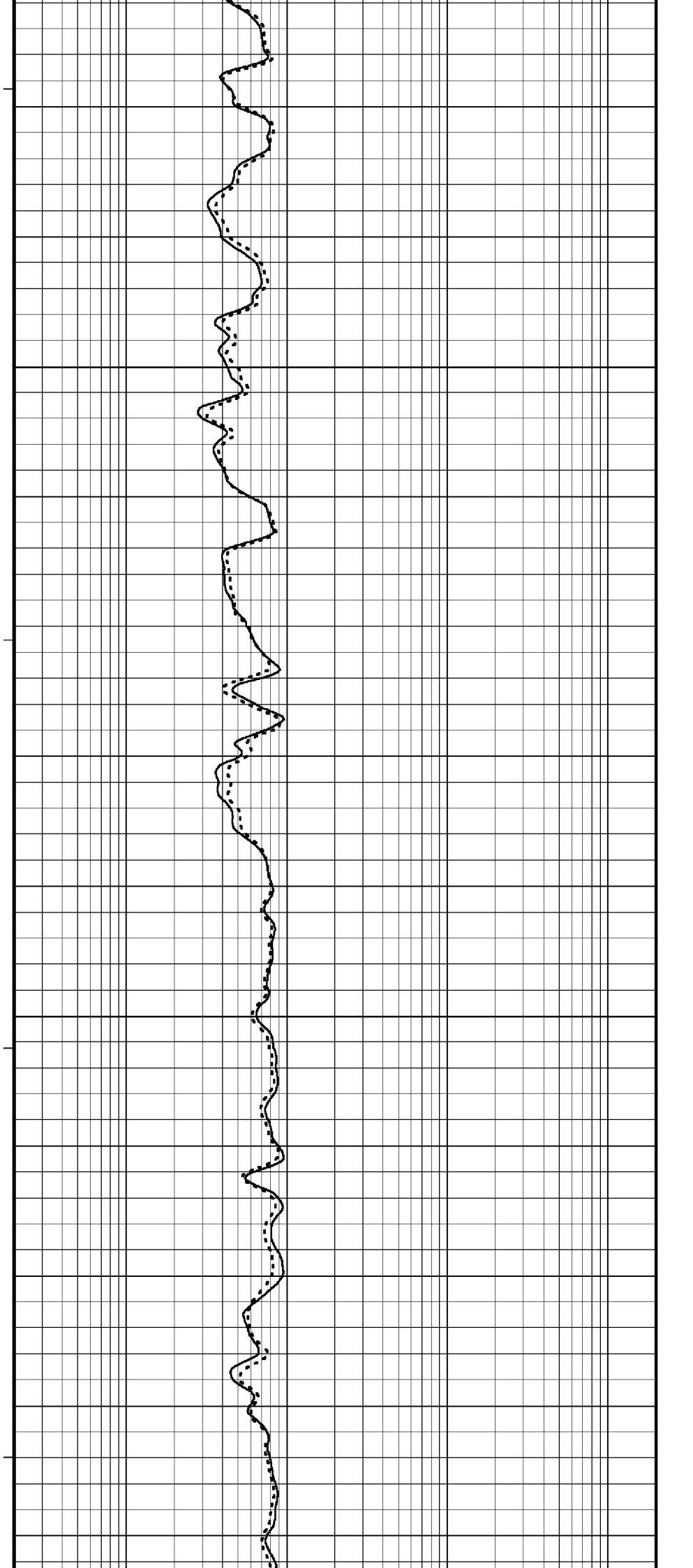
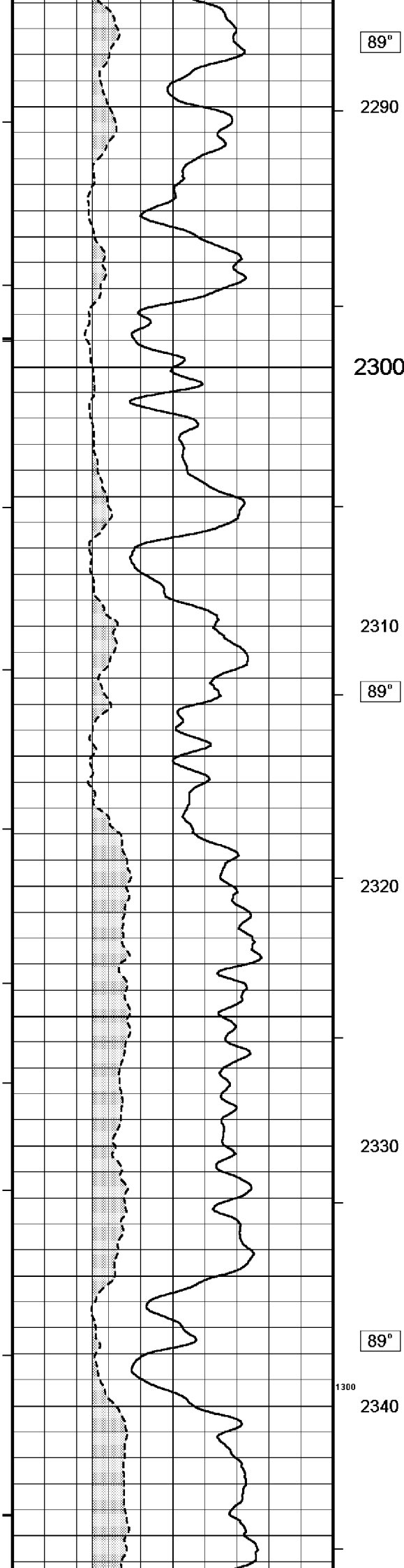


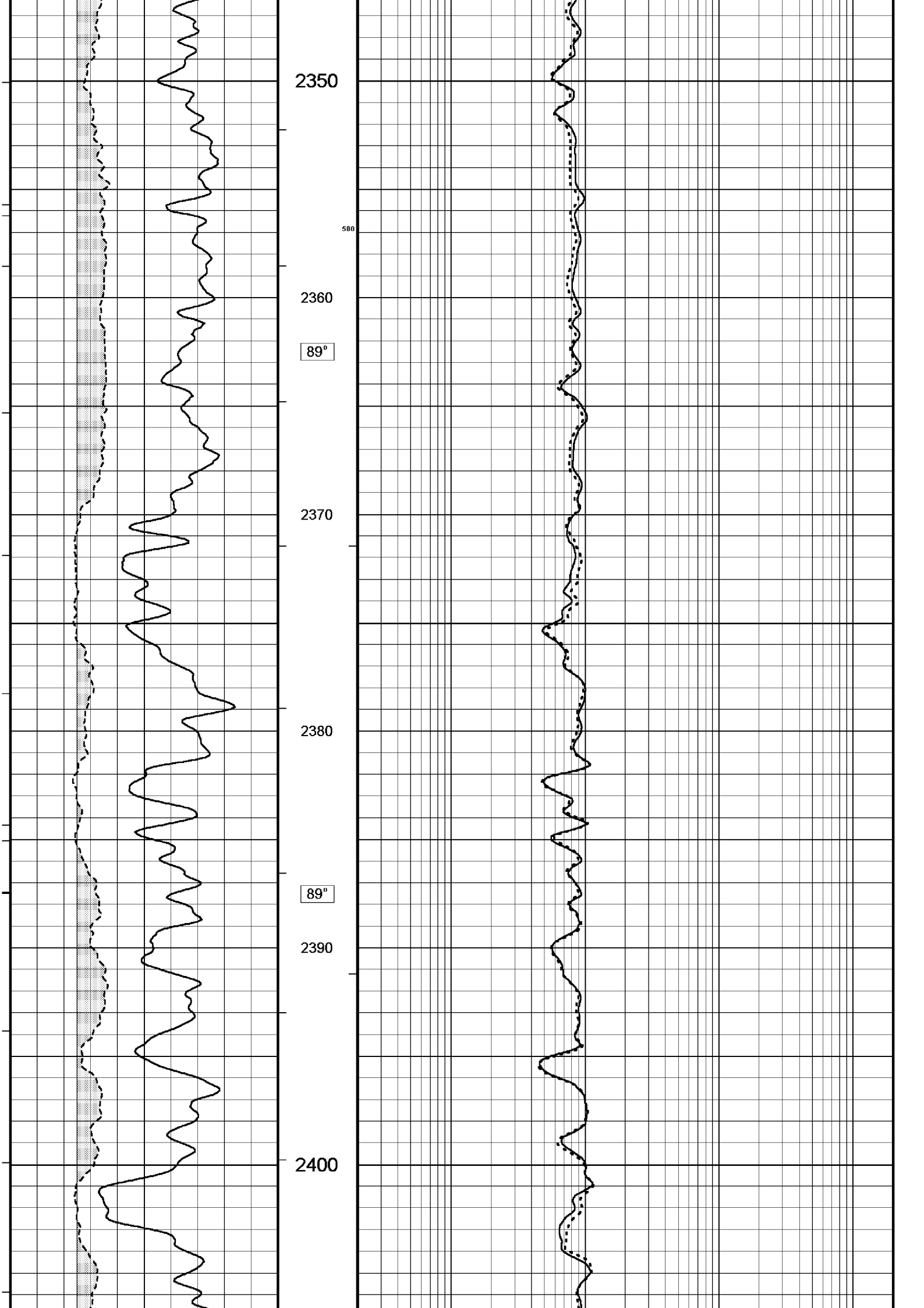




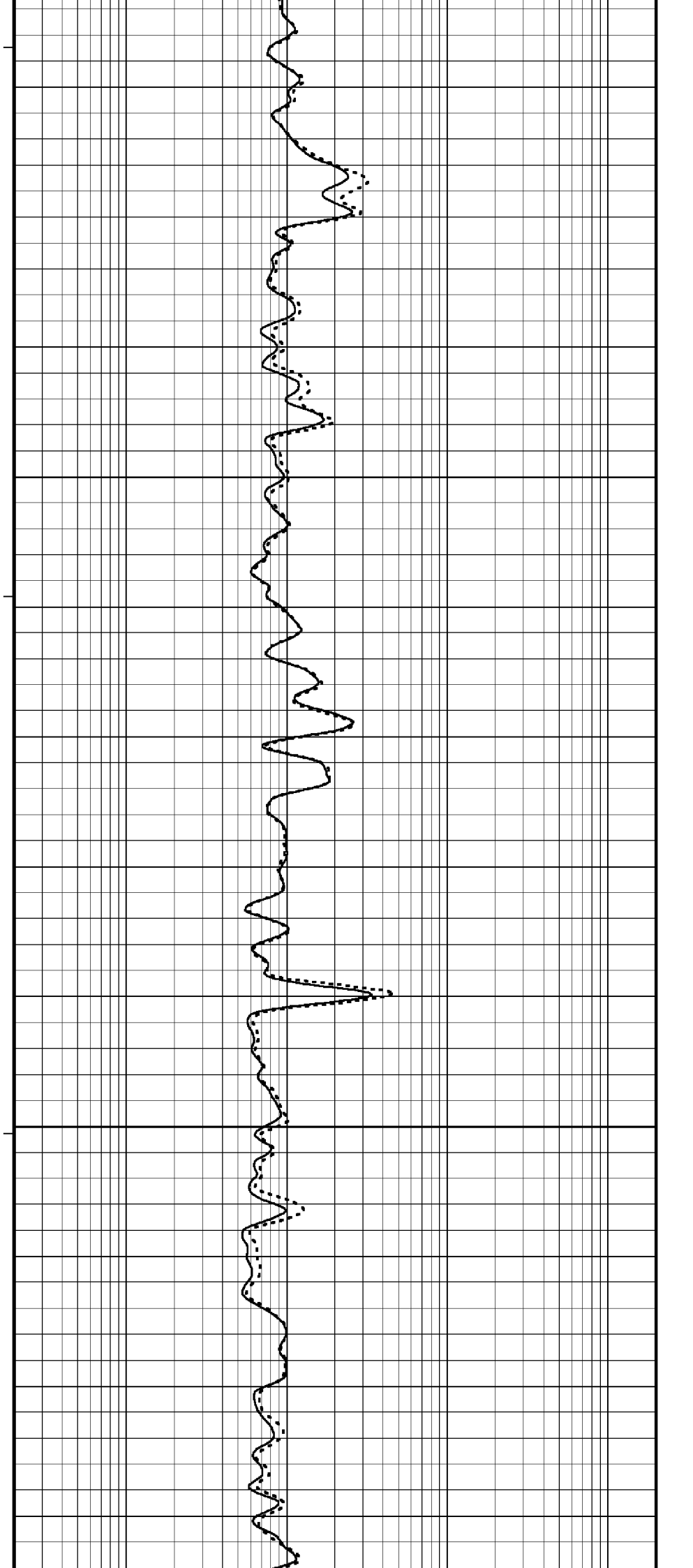
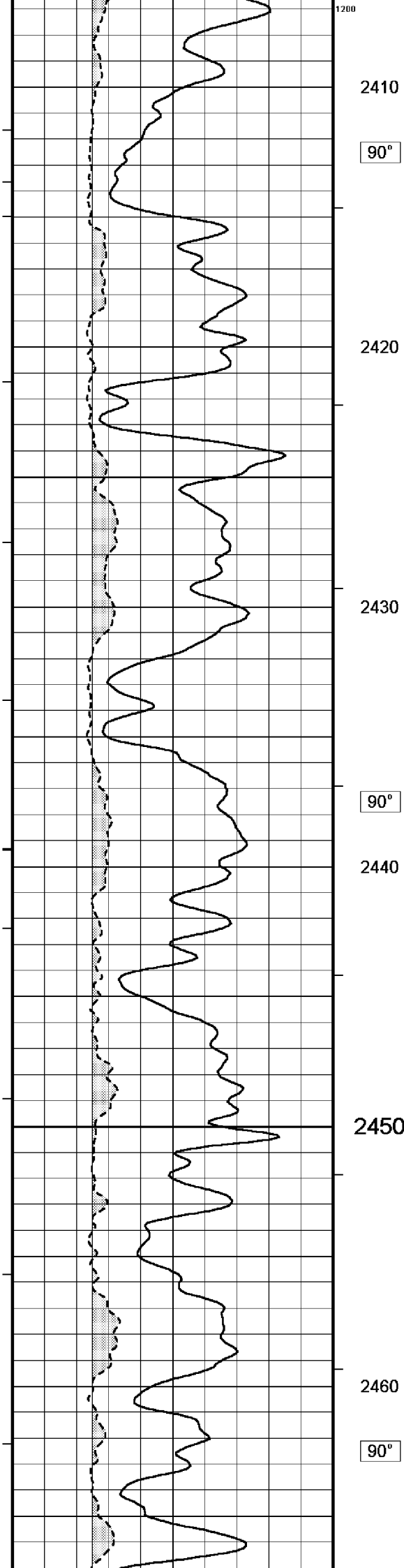


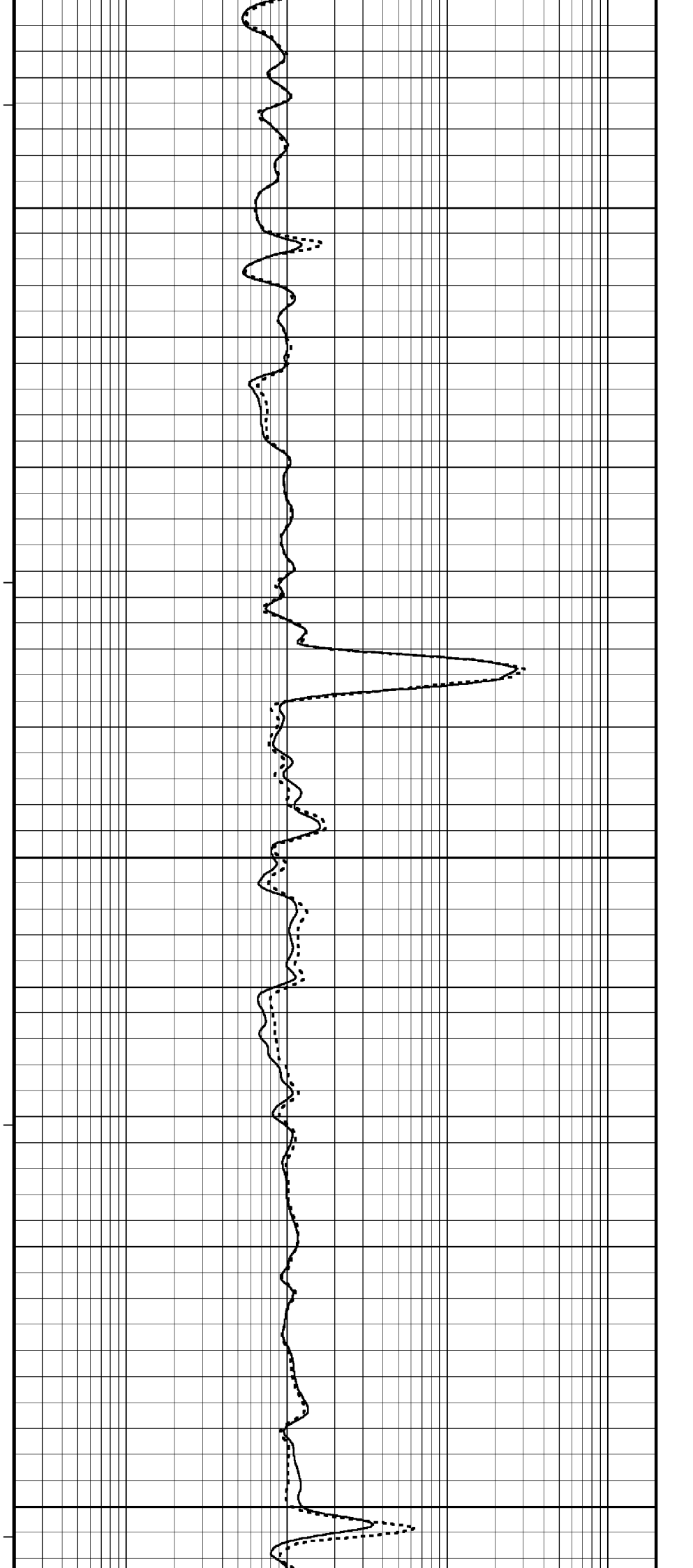
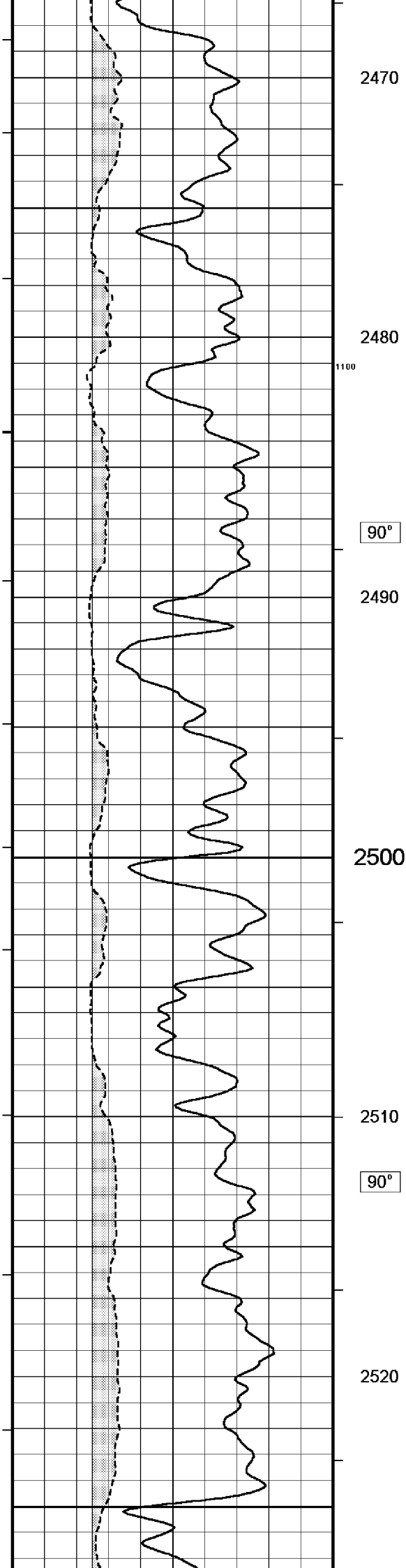


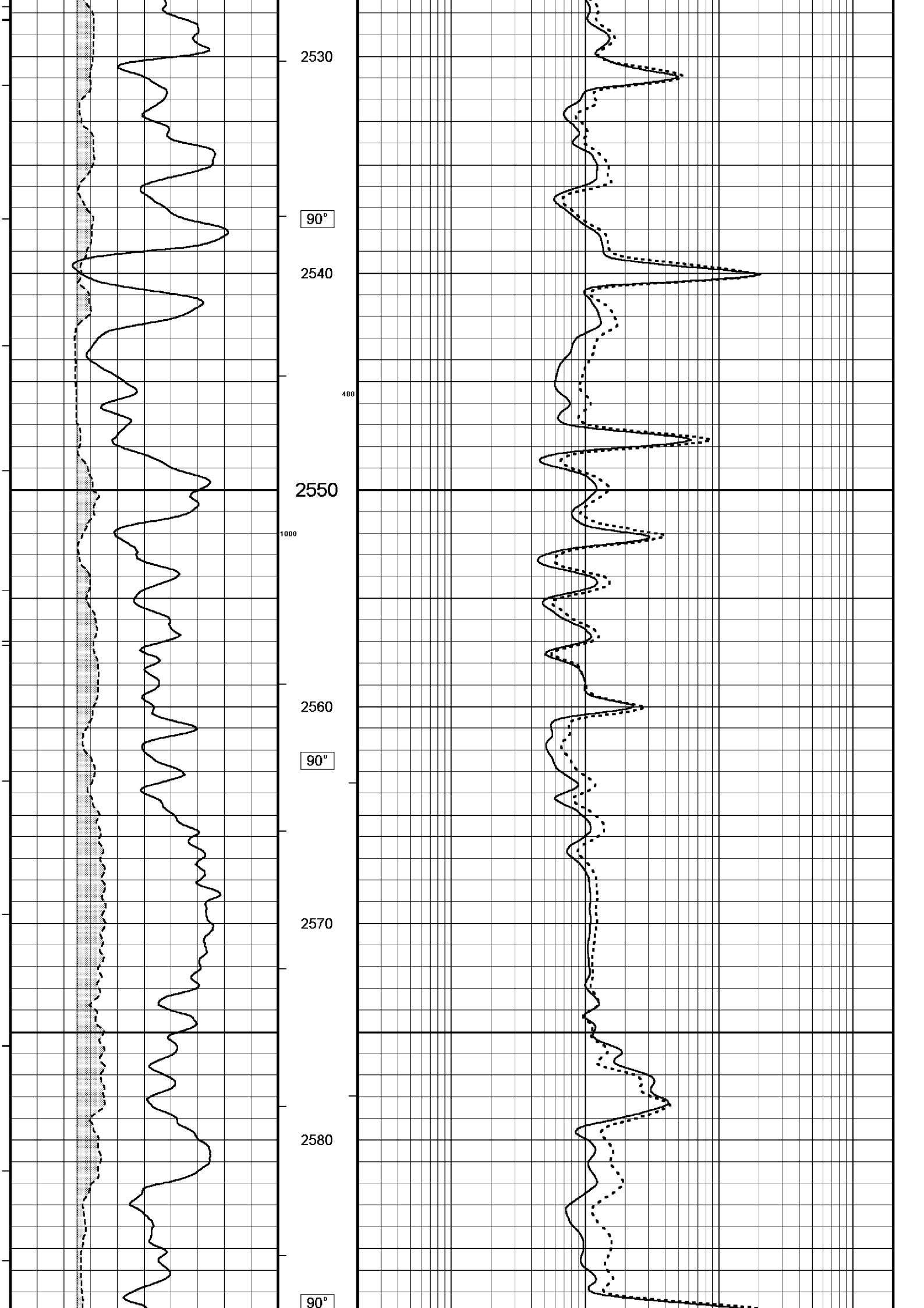


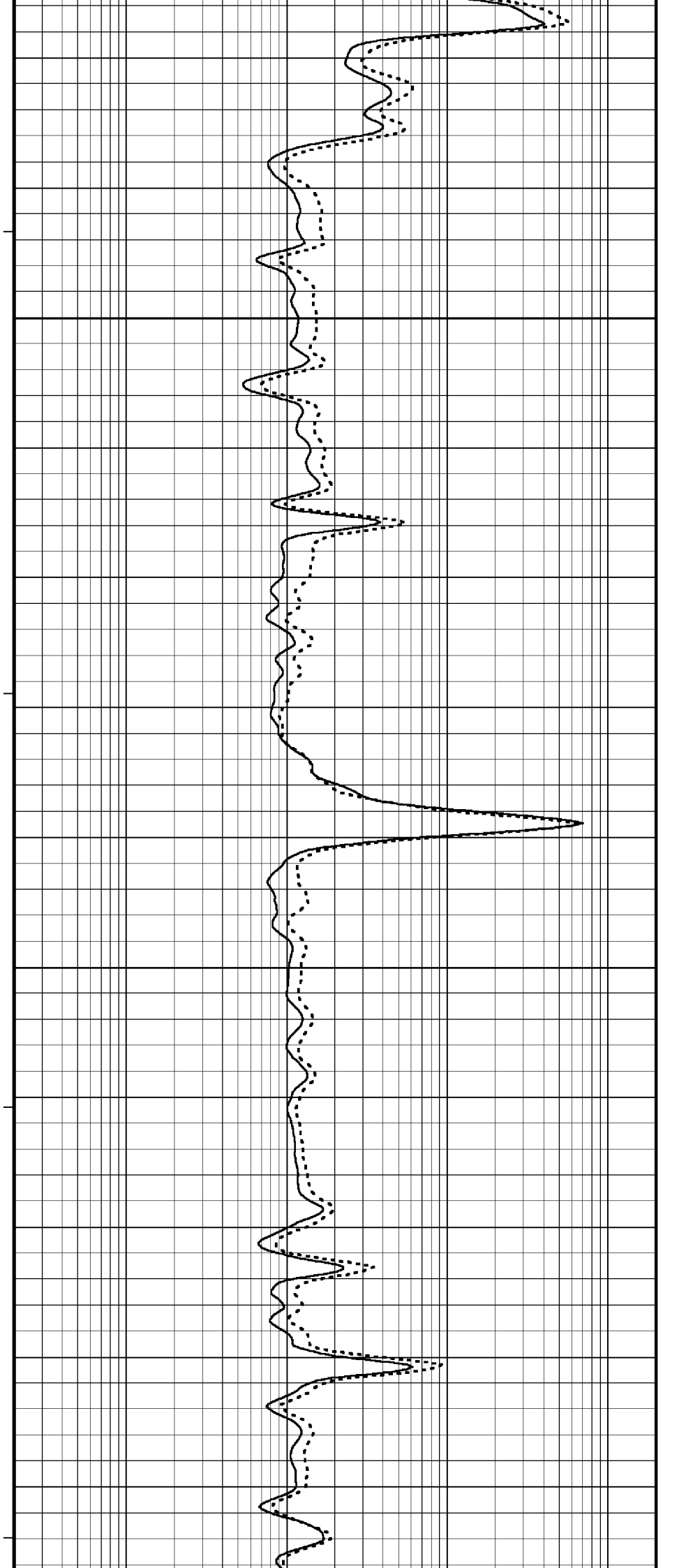
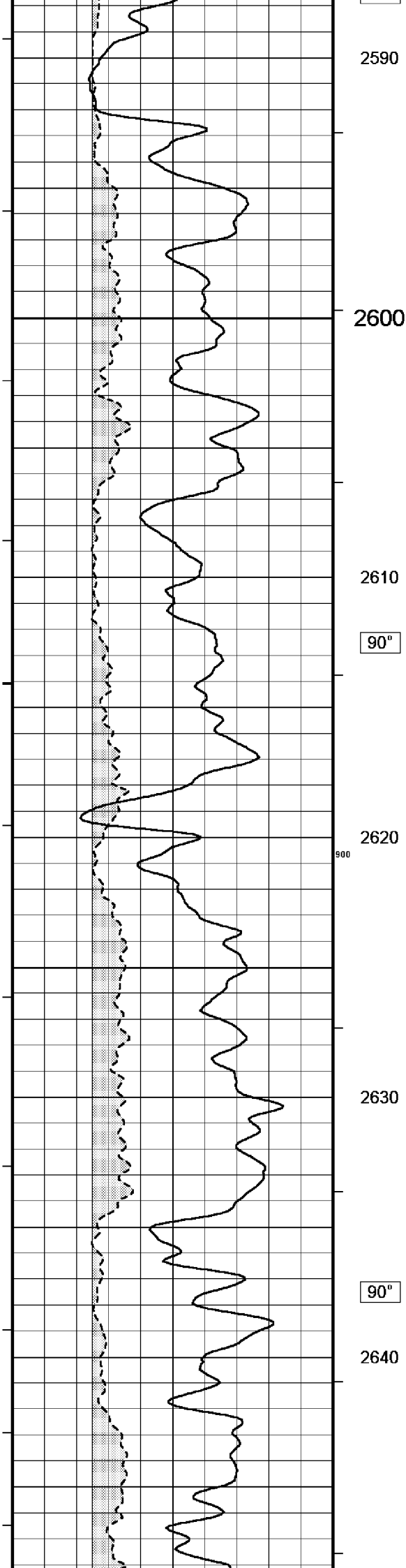


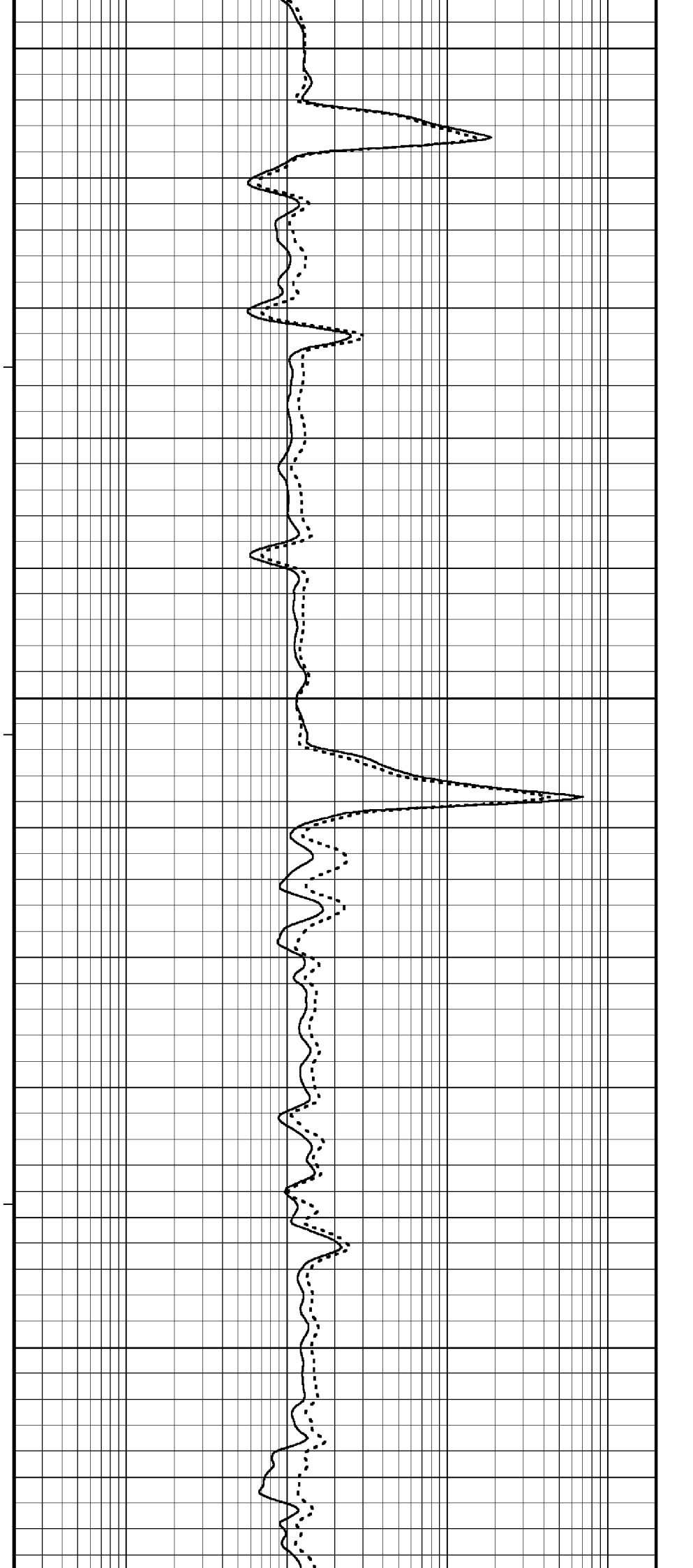
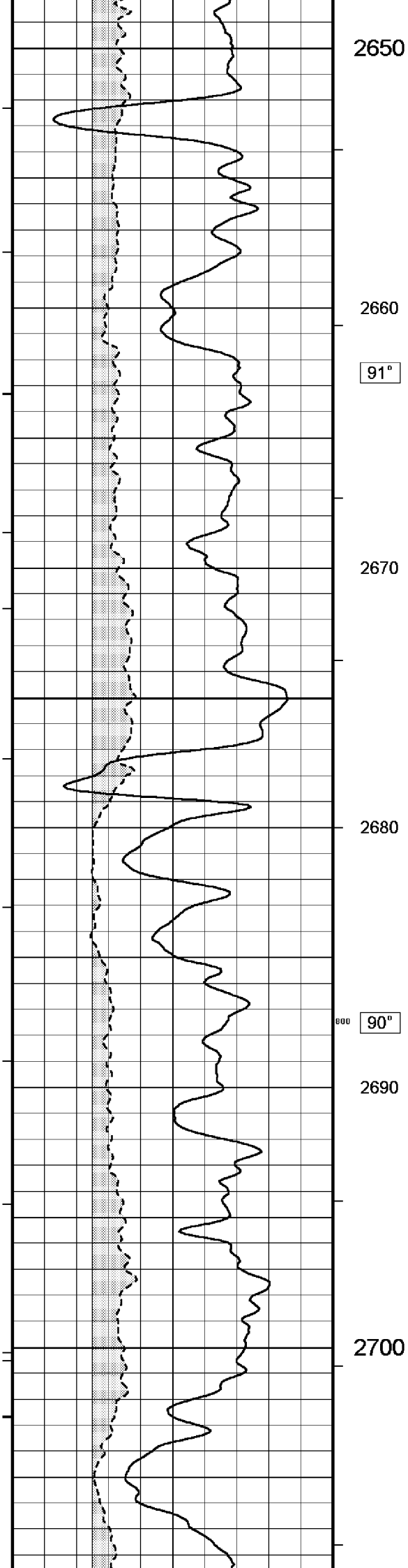


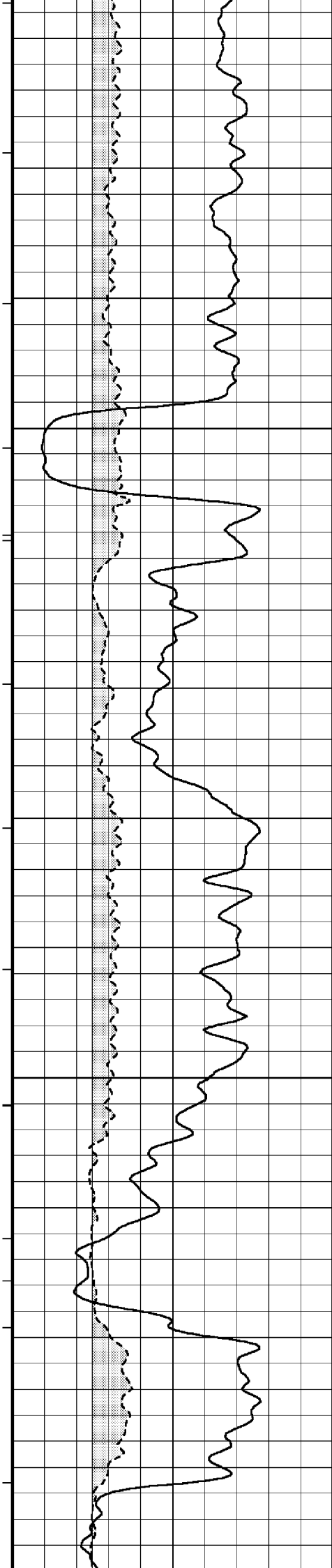




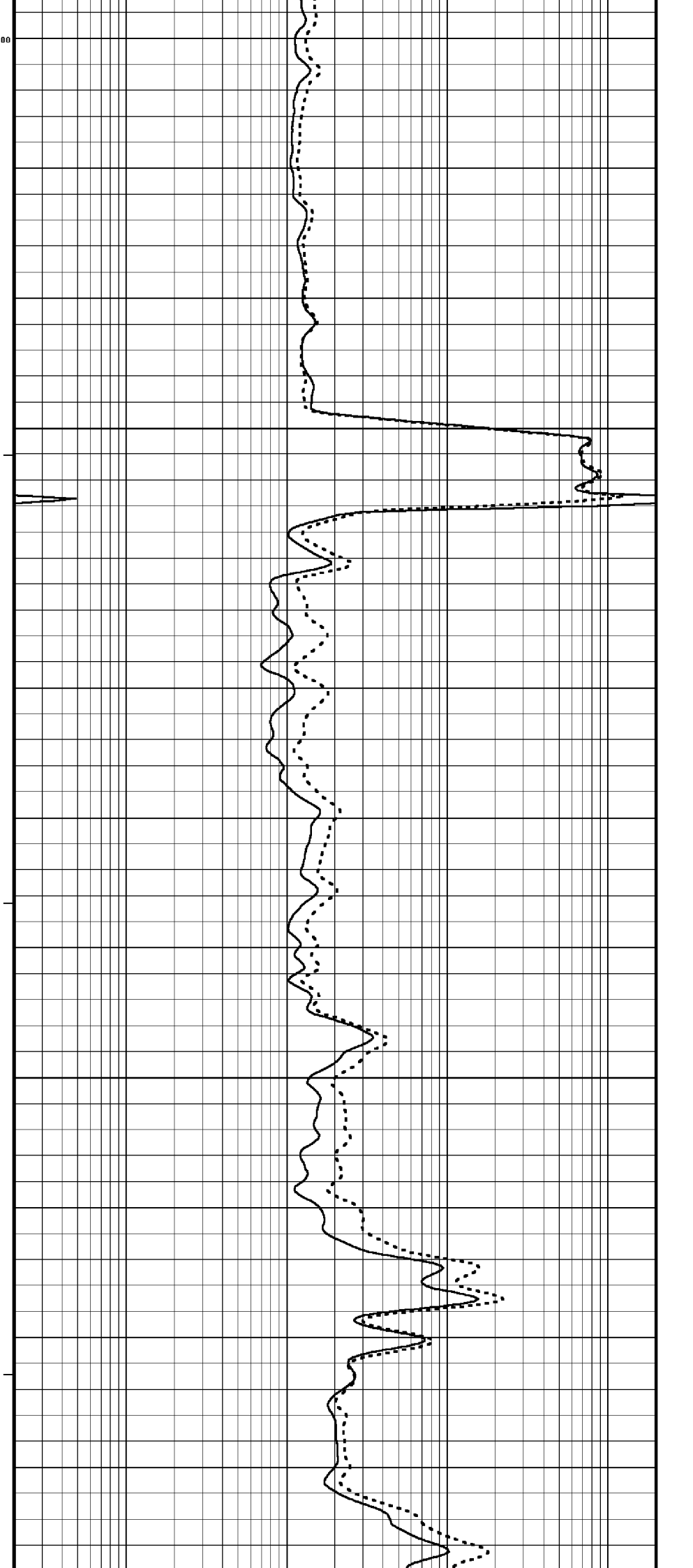


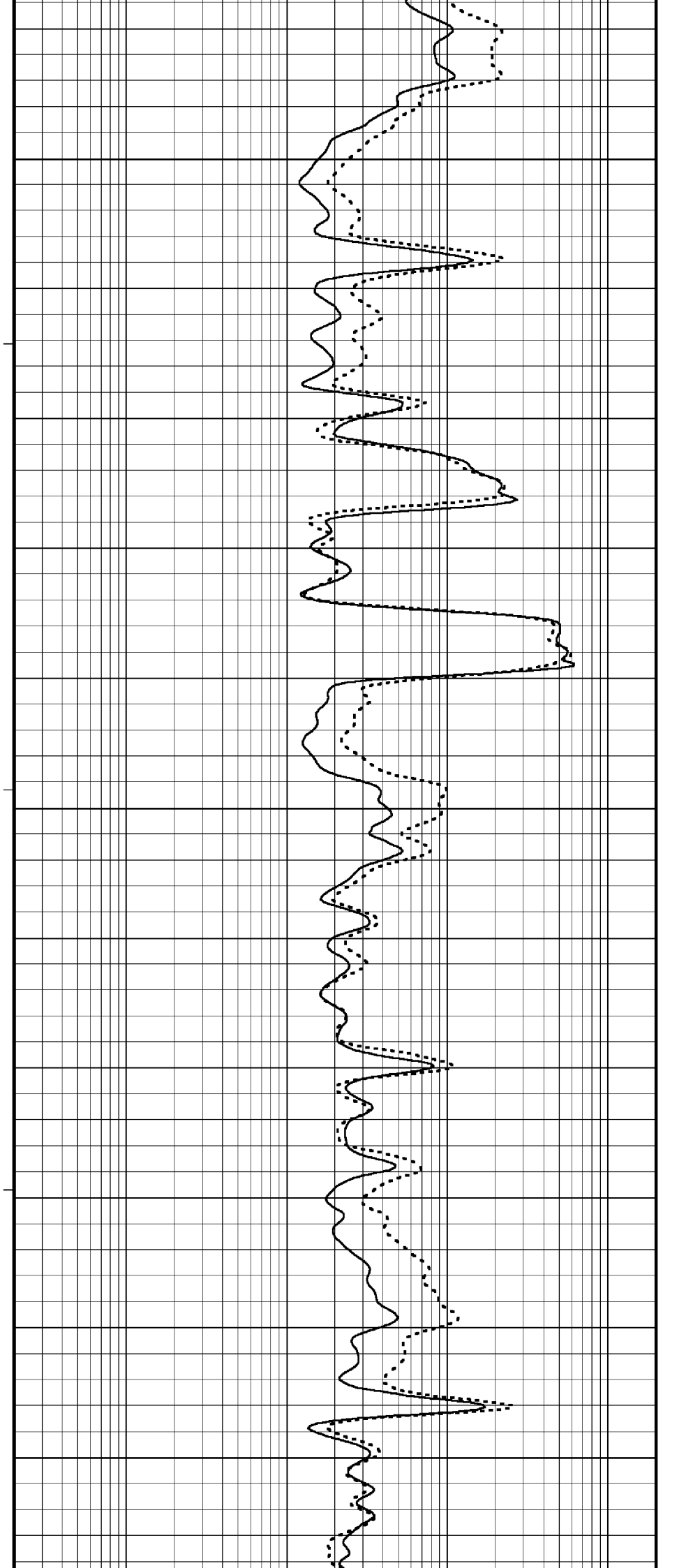
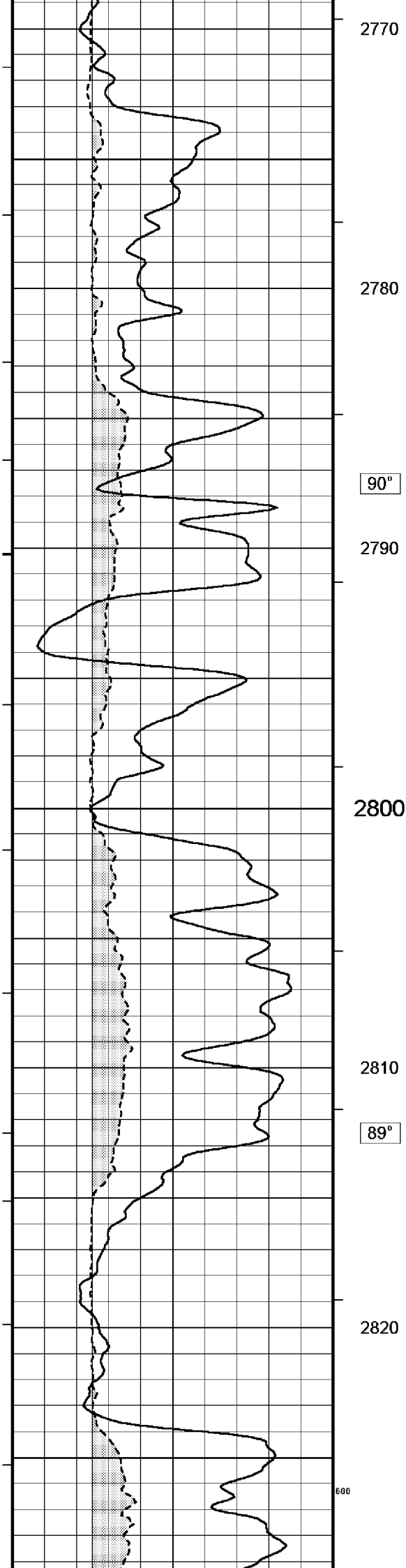


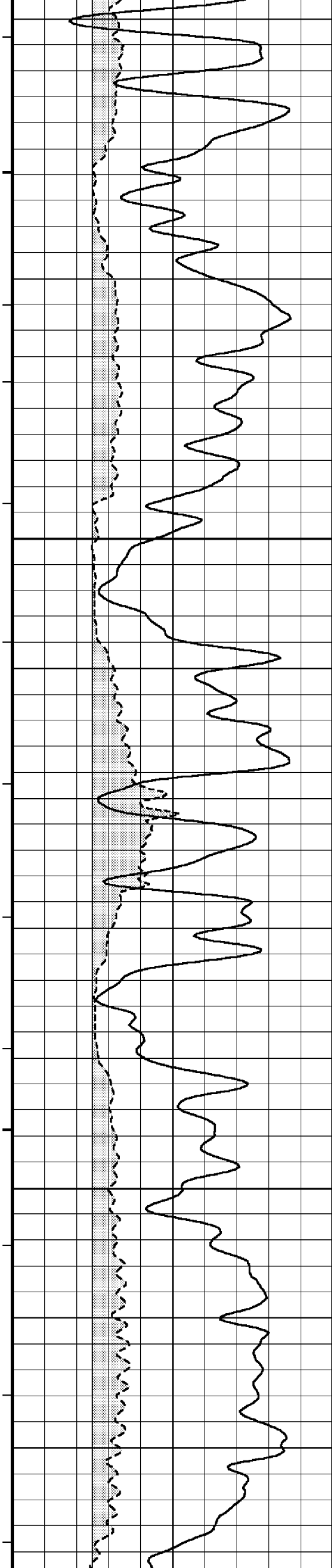




2710 300  
90°  
2720  
2730  
90°  
2740  
2750  
700  
2760  
90°







2830

89°

2840

2850

2860

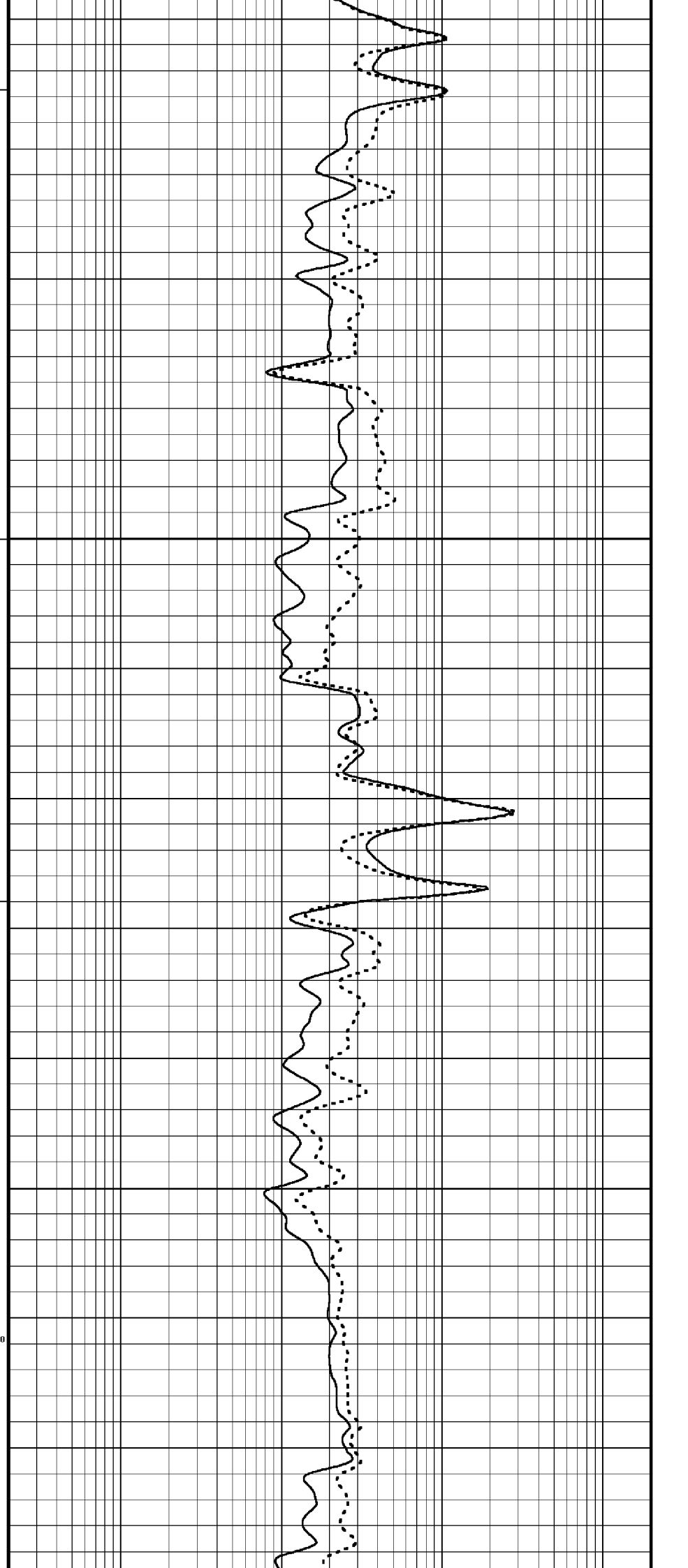
90°

2870

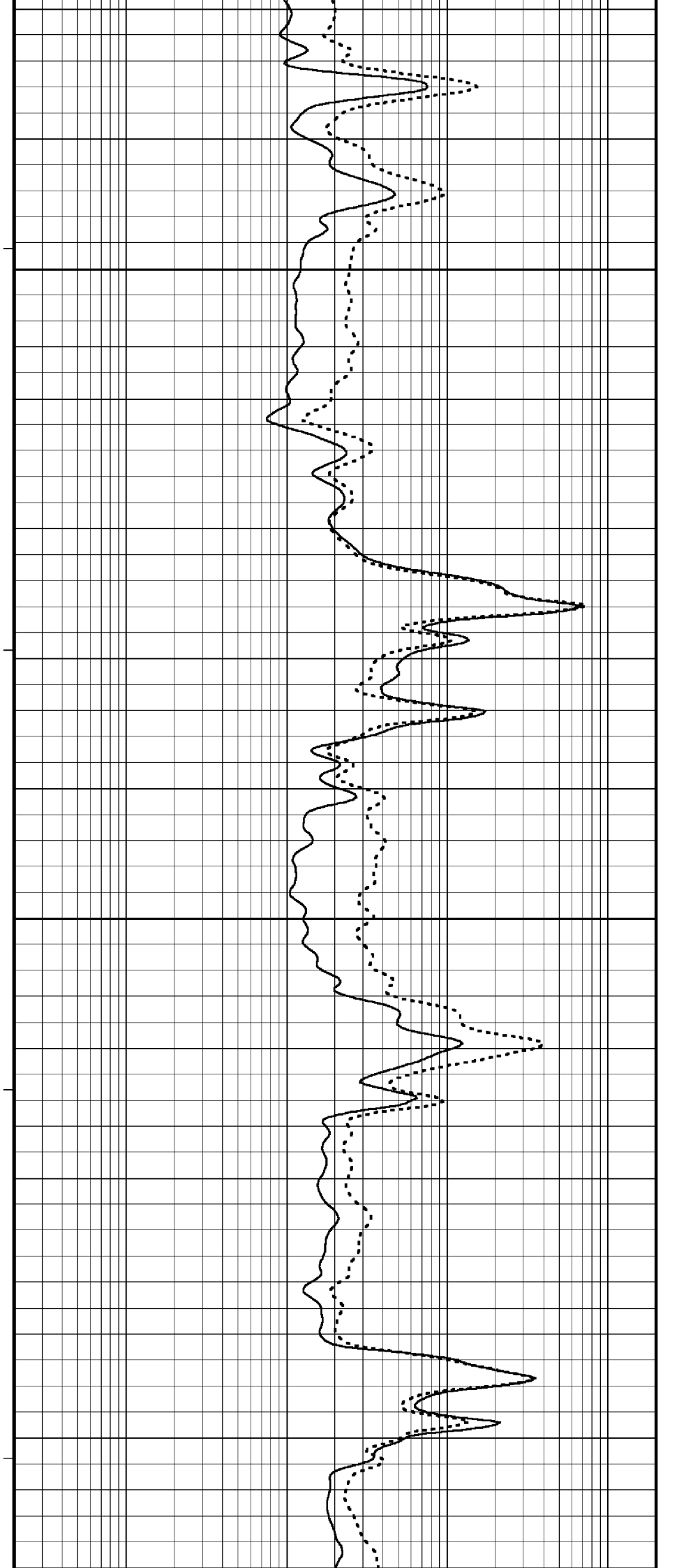
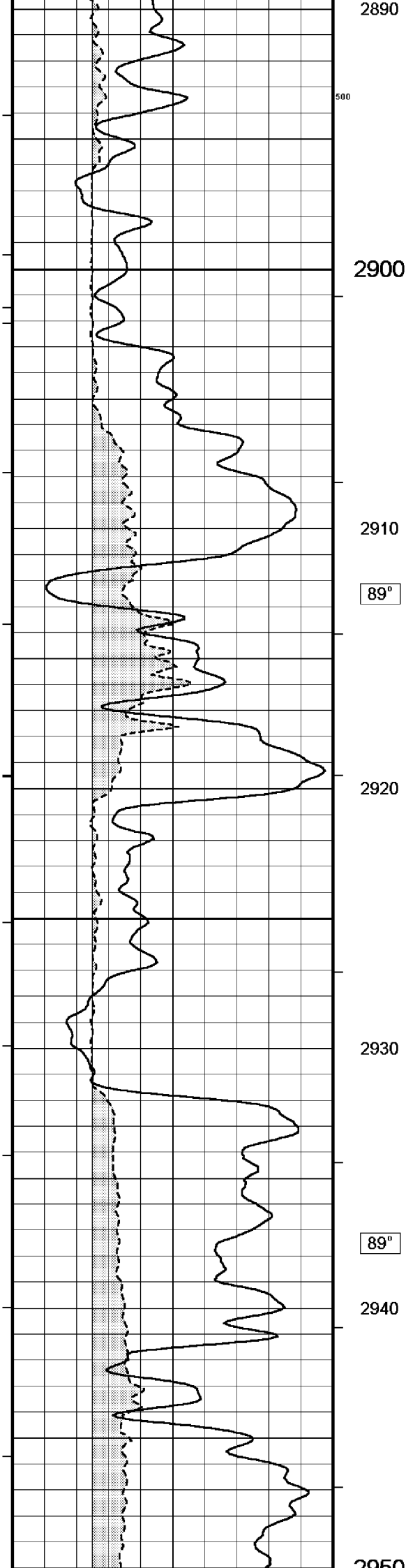
2880

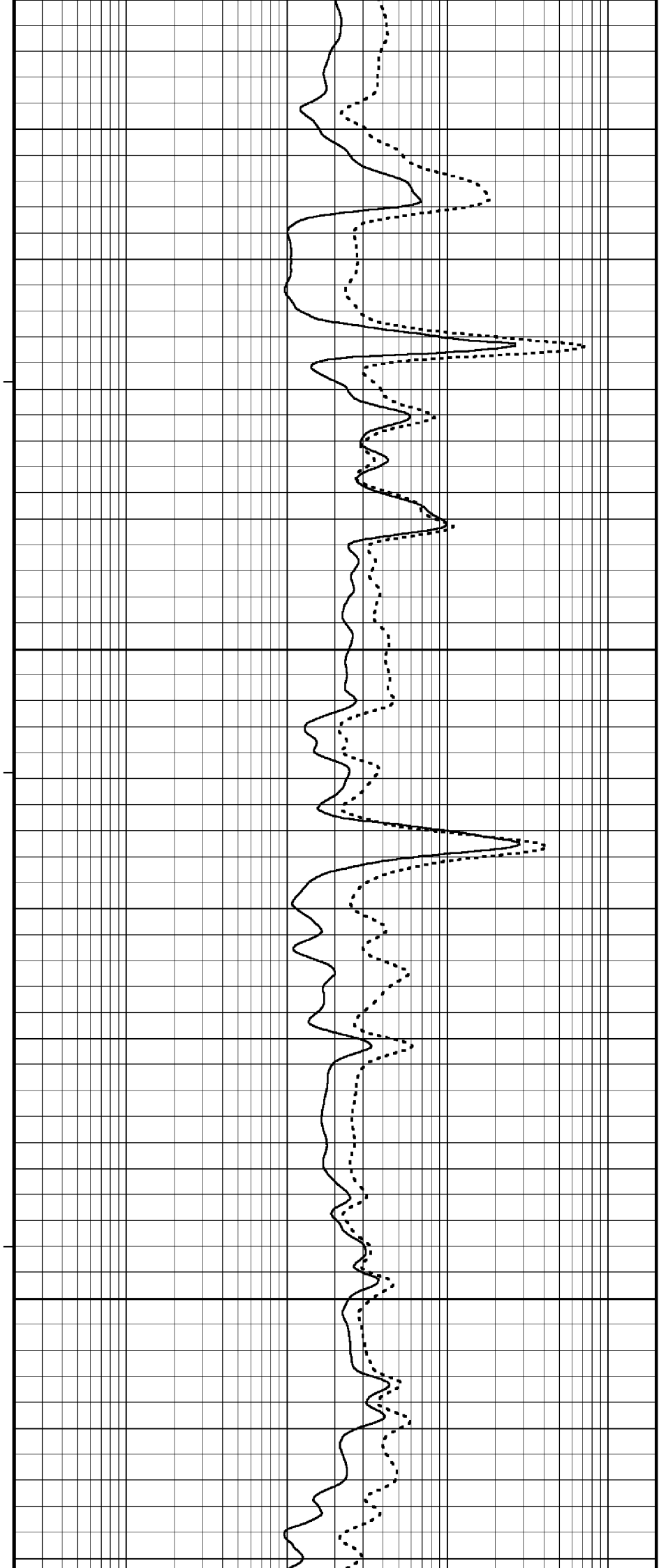
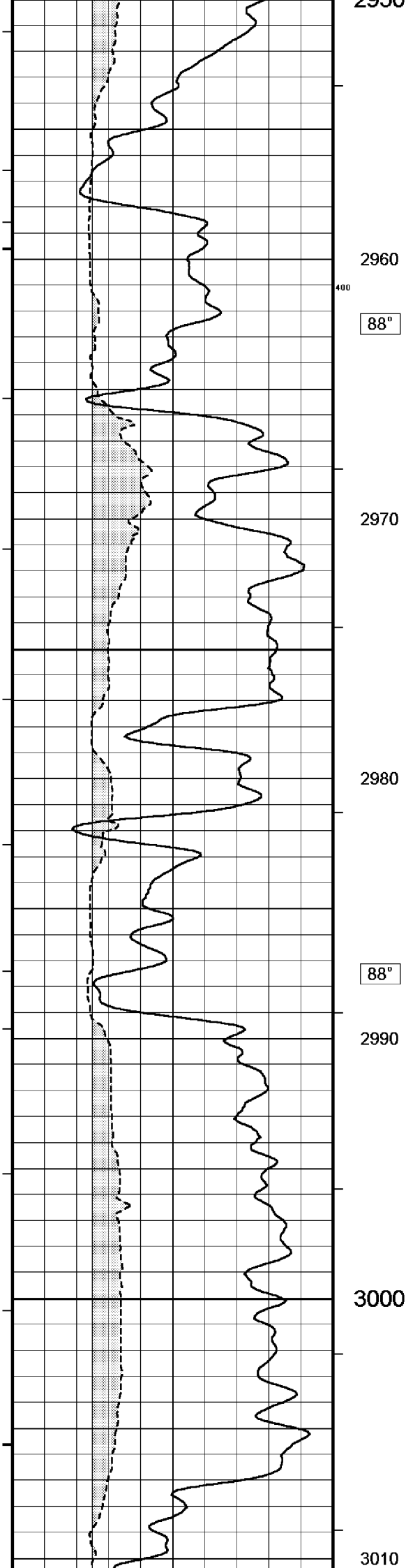
200

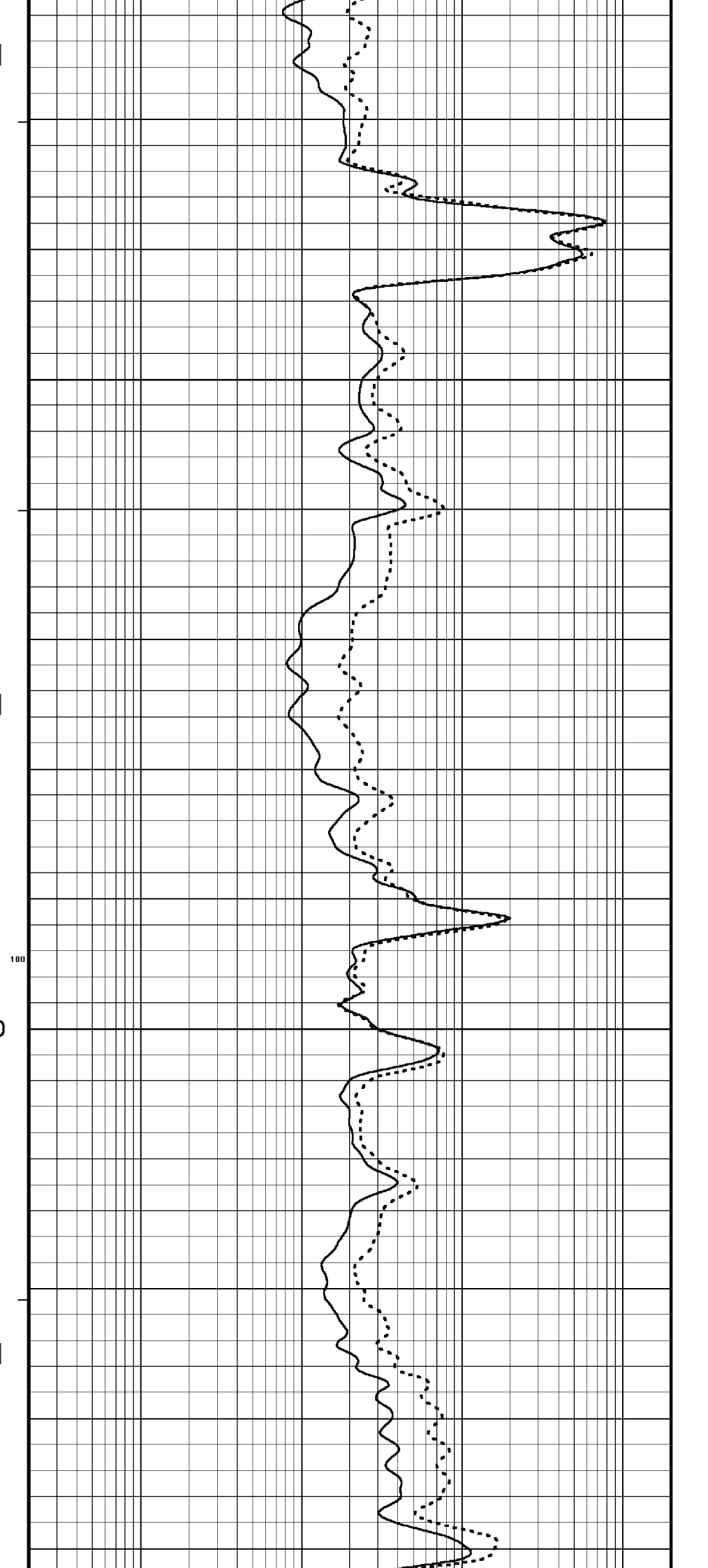
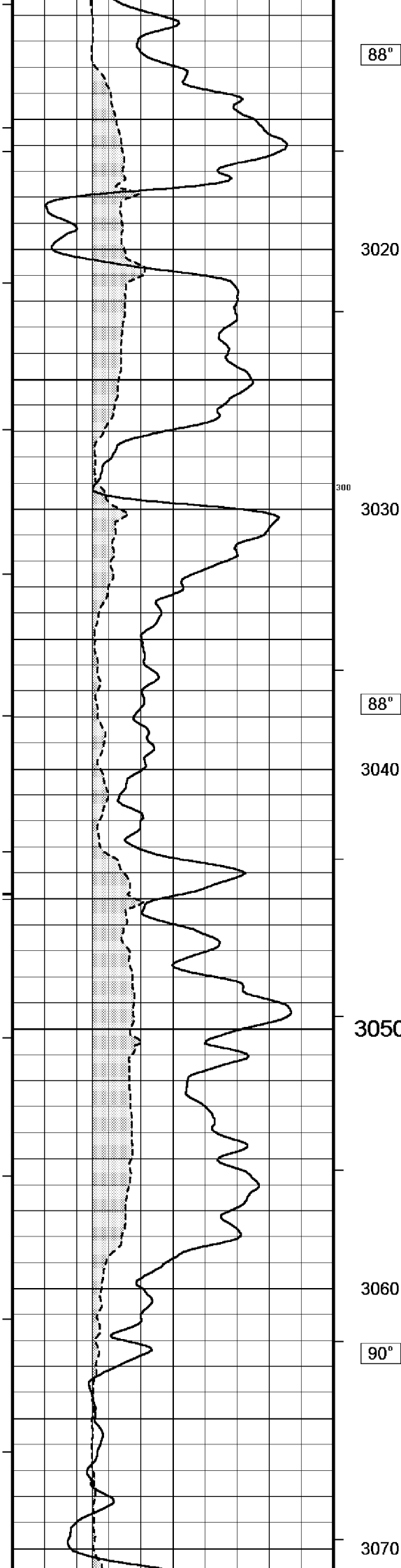
89°

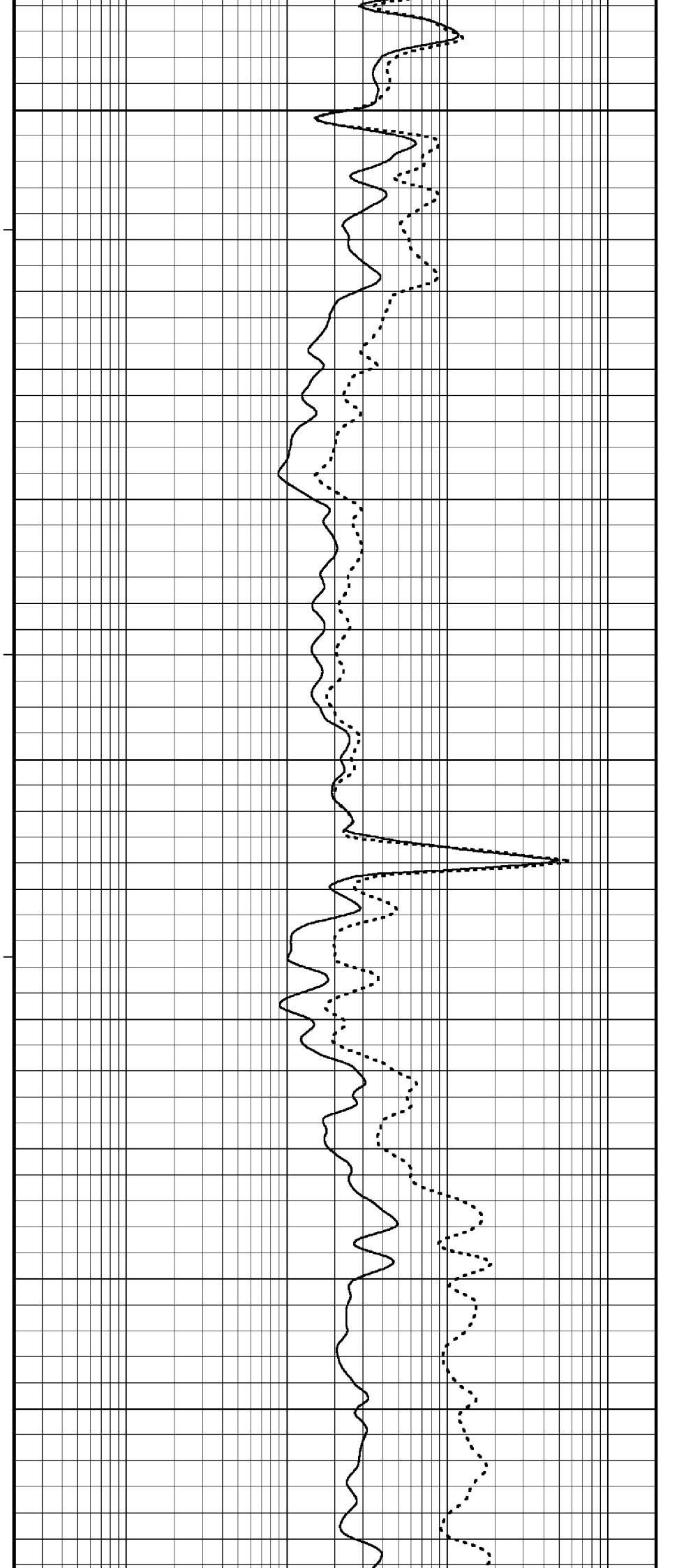
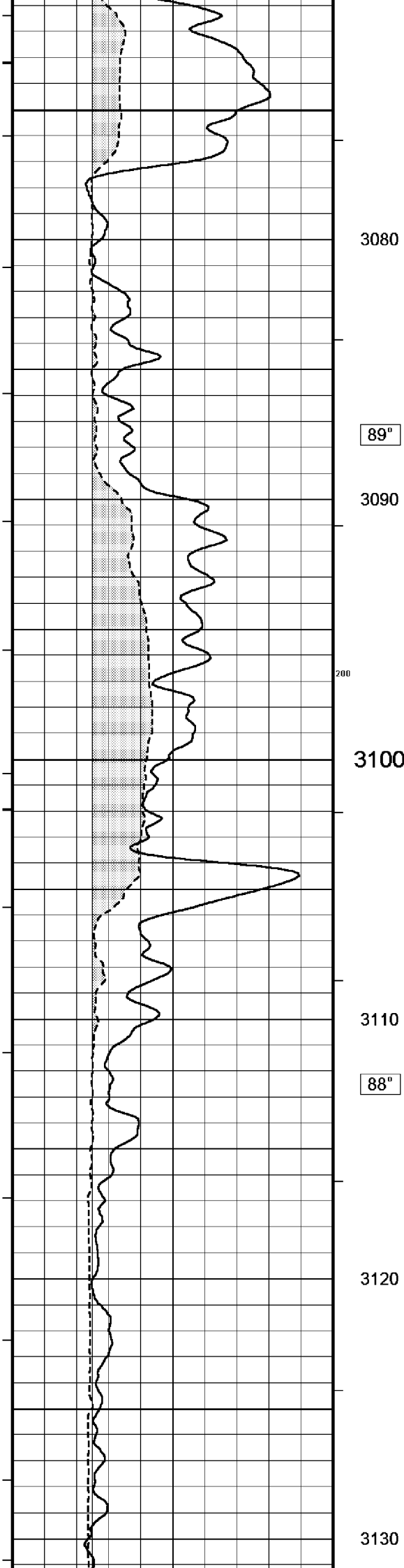


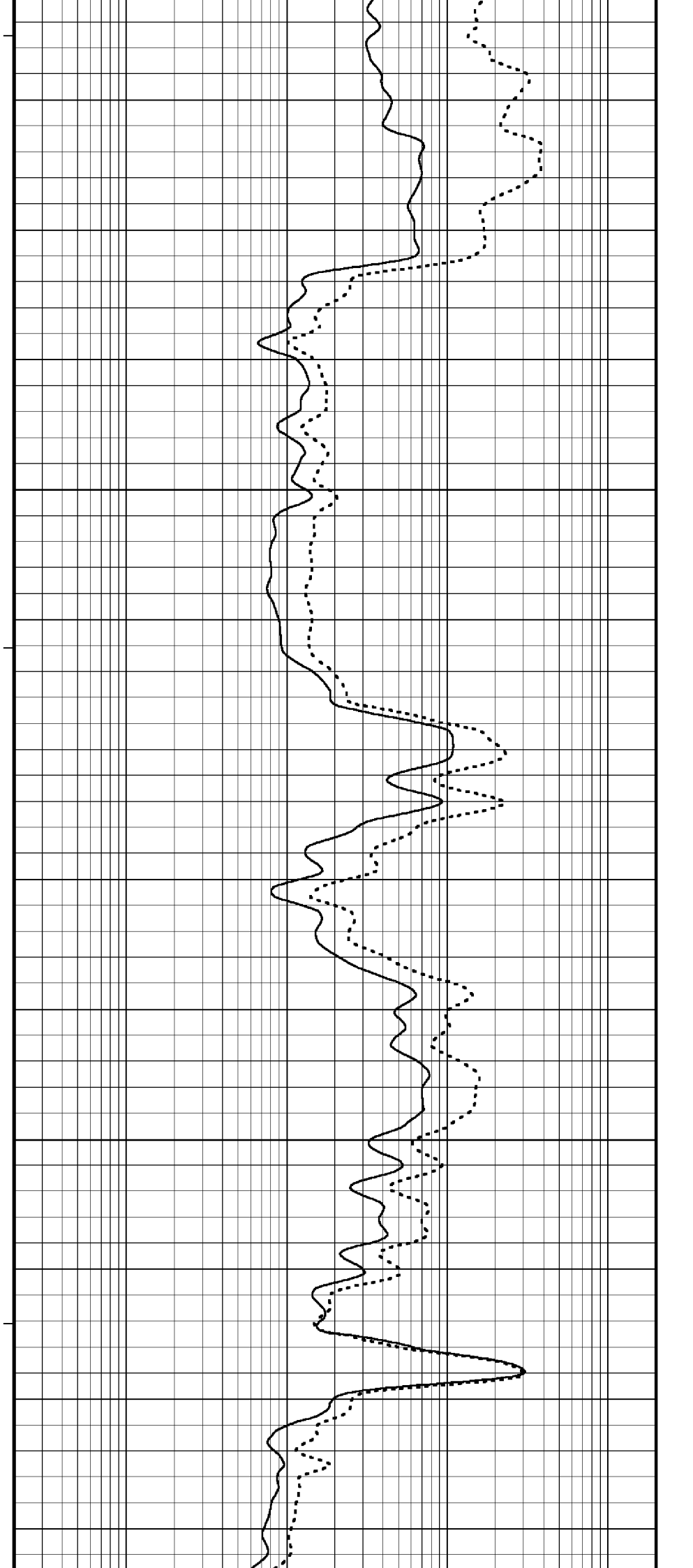
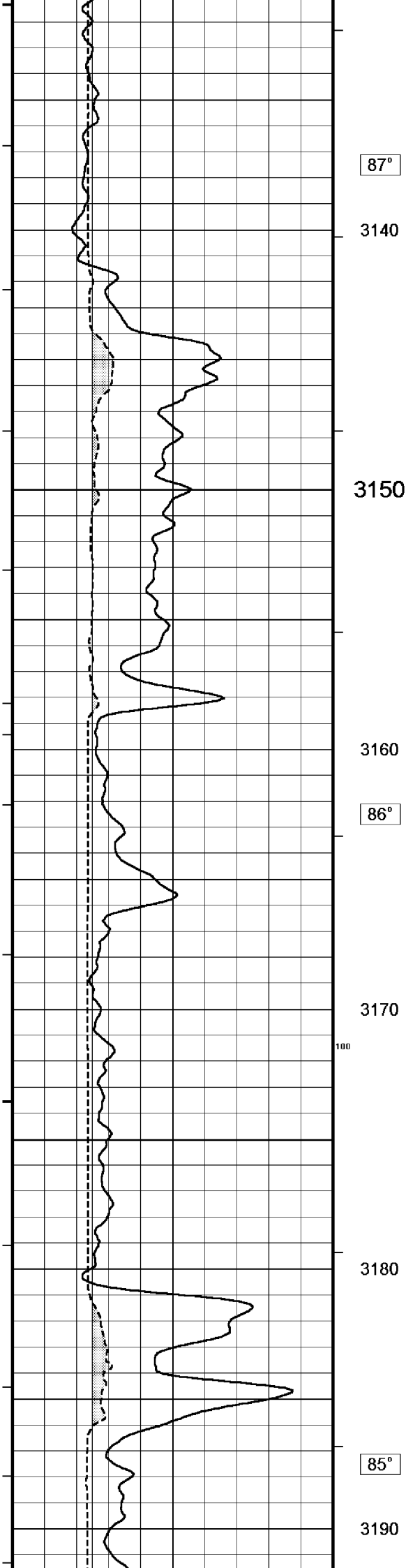


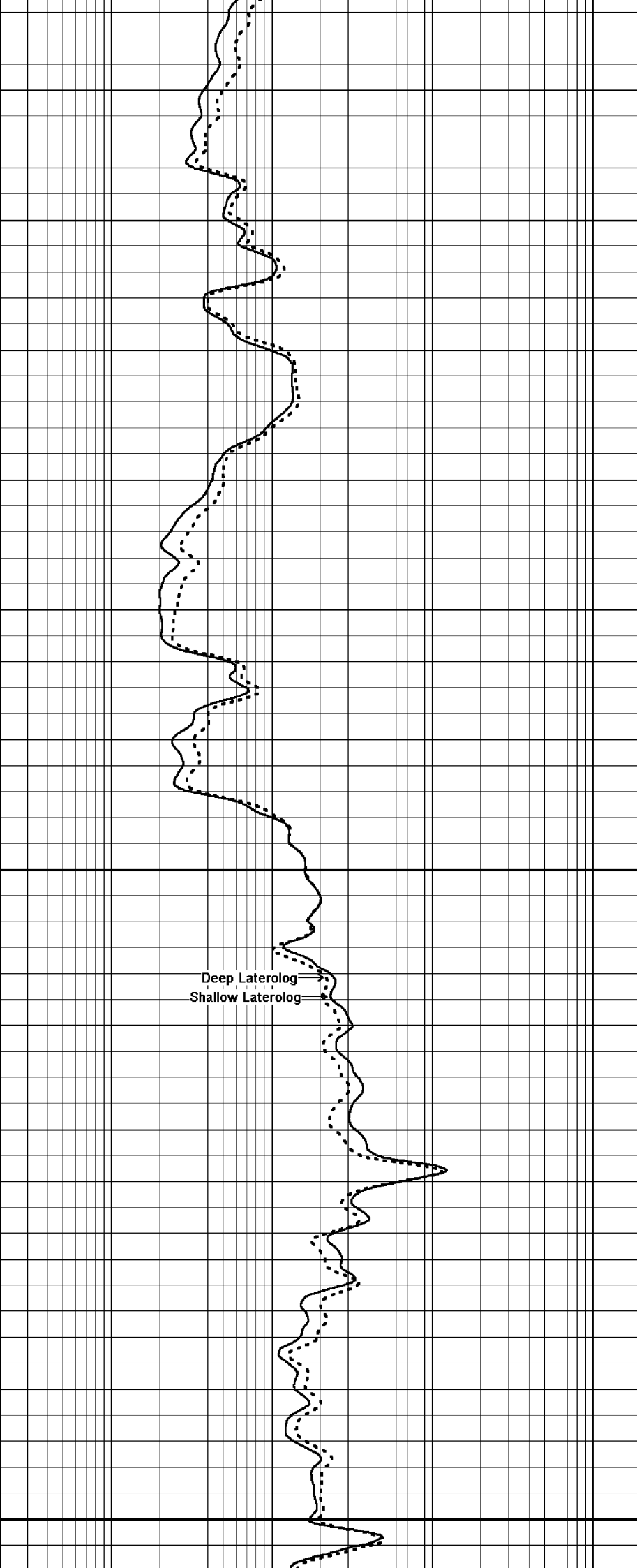
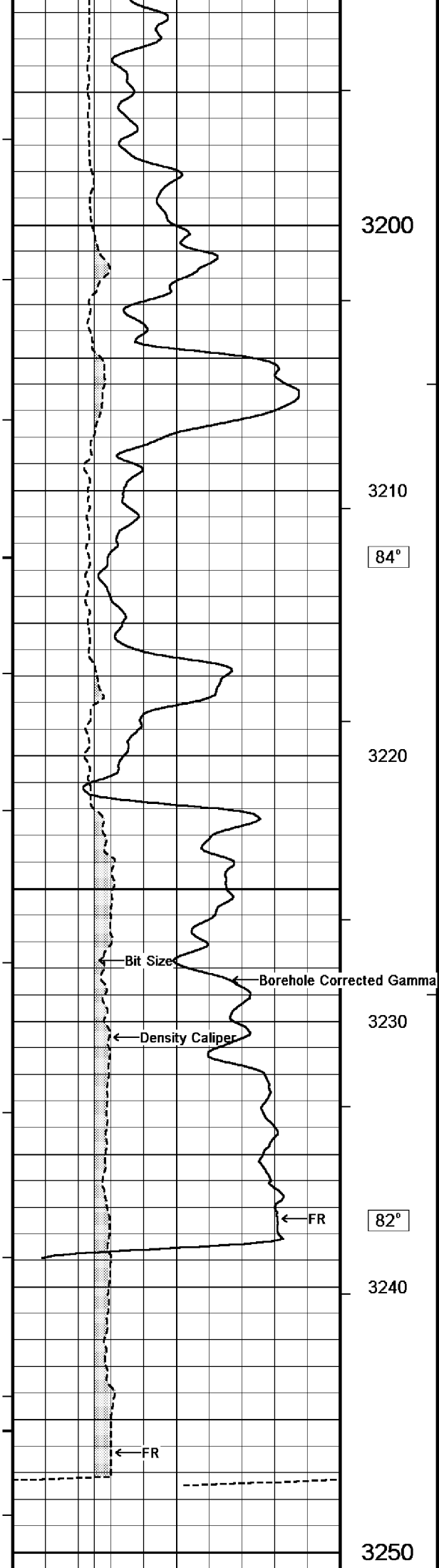


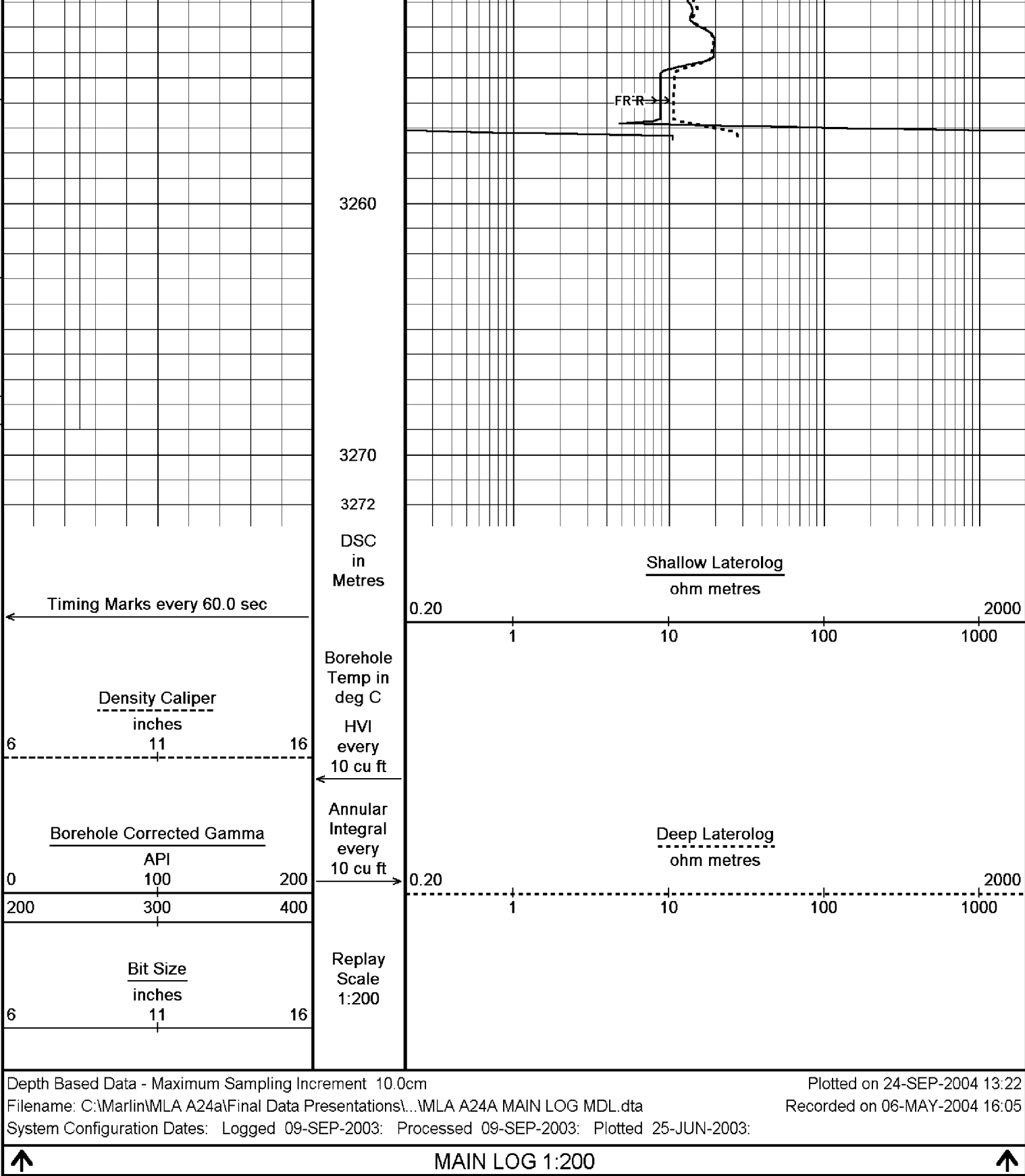












BEFORE SURVEY CALIBRATION		
C:\Marlin\MLA A24a\Final Data Presentations\Black & White Prints\MLA A24A MAIN LOG MDL.dta		
General Constants All 000		
General Parameters		
Mud Resistivity	0.119	ohm-metres
Mud Resistivity Temperature	25.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Wet Hole	
Hole/Annular Volume and Differential Caliper Parameters		
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	Density Caliper	
Annular Volume Diameter	7.000	inches

Caliper for Differential Caliper Density Caliper

Rwa Parameters	
Porosity used	Base Density Porosity
Resistivity used	Deep Induction
RWA Constant A	0.610
RWA Constant M	2.150

#### Gamma Calibration MCG 098

Field Calibration on 3-MAY-2004 11:25

	Measured	Calibrated (API)
Background	8	5
Calibrator (Gross)	1371	914
Calibrator (Net)	1363	909

#### Gamma Constants MCG 098

Gamma Calibrator Number	60	
Mud Density	1.00	gm/cc
Caliper Source for Processing	Bit Size	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

#### High Resolution Temperature Calibration MCG 098

Field Calibration on 3-MAY-2004,11:21

	Measured	Calibrated(Deg C)
Lower	0.00	0.00
Upper	100.00	100.00

#### High Resolution Temperature Constants MCG 098

Pre-filter Length	11
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#### Caliper Calibration MPD 083

Base Calibration on 20-APR-2004 12:25

Field Calibration on 3-MAY-2004 10:29

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	13792	4.01
2	23424	5.99
3	33363	7.98
4	43344	9.94
5	54608	12.01
6	N/A	N/A

Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	7.96	7.98

#### Laterolog Calibration MLE 017

Base Calibration on 16-APR-2004 15:30

Field Check on 3-MAY-2004,11:45

Base Calibration				
		Measured	Calibrated (ohm-m)	
Channel	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Shallow	9.7	969.1	13.2	1321.0
Deep	9.7	969.2	7.5	755.0
Groningen	9.7	970.5	8.5	854.0
Channel	Base Check (ohm-m)		Field Check (ohm-m)	
Shallow	49.0		49.0	
Deep	28.0		28.0	
Groningen	253.1		253.2	

#### Laterolog Constants MLE 017

Squasher Start	40000	ohm-m
Shallow Laterolog K Factor	1.3210	
Deep Laterolog K Factor	0.7550	
Groningen Laterolog K Factor	0.8540	
Interference Rejection	50 Hz	
SP Connection	SP Bridle Electrode	
Groningen Connection	Groningen Electrode	

### DOWNHOLE EQUIPMENT

C:\Marlin\MLA A24a\Final Data Presentations\Black & White Prints\MLA A24A MAIN LOG MDL.dta

Compact Swivel Head Adaptor  
SLA 62 Length: 0.82 m Weight: 26.5 lb





SHA 63 Length: 0.83 m Weight: 26.5 lb

Compact Knuckle Joint  
SKJ 49 Length: 0.66 m Weight: 24.3 lb

Compact Battery Sub.  
MBS 99 Length: 4.34 m Weight: 88.2 lb

Compact Inline Standoff B  
MIS 141 Length: 0.65 m Weight: 15.4 lb

Compact Stiff Bridle Electrode Sub.  
MBE 18 Length: 3.76 m Weight: 94.8 lb

Compact Inline Standoff B  
MIS 127 Length: 0.65 m Weight: 15.4 lb

Compact Stiff Bridle Electrode Sub.  
MBE 19 Length: 3.76 m Weight: 94.8 lb

Compact Knuckle Joint  
SKJ 110 Length: 0.66 m Weight: 24.3 lb

Thrid Bridle MBE 20  
MLK 111 Length: 3.76 m Weight: 94.8 lb

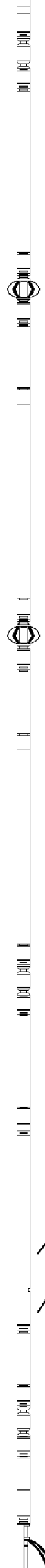
Compact Gamma  
MCG 98 Length: 2.65 m Weight: 63.9 lb

Compact Memory Sub.  
MMS 24 Length: 0.95 m Weight: 22.0 lb

Compact Knuckle Joint  
SKJ 48 Length: 0.66 m Weight: 24.3 lb

Compact Swivel Head Adaptor  
SHA 28 Length: 0.83 m Weight: 26.5 lb

Compact Inline Bowspring A  
MIS 95 Length: 1.74 m Weight: 33.1 lb



32.22 m GGCE - Borehole Corrected Gamma  
31.33 m CGXT - MCG External Temperature

MIS 93 Length: 1.74 m Weight: 55.1 lb

Compact Neutron  
MDN 85 Length: 1.53 m Weight: 50.7 lb

Compact Density/Caliper  
MPD 83 Length: 2.92 m Weight: 90.4 lb

Compact Inline Bowspring A  
MIS 94 Length: 1.74 m Weight: 33.1 lb

Compact Swivel Head Adaptor  
SHA 71 Length: 0.83 m Weight: 26.5 lb

Compact Knuckle Joint  
SKJ 44 Length: 0.66 m Weight: 24.3 lb

Compact Inline Standoff B  
MIS 128 Length: 0.65 m Weight: 15.4 lb

Compact Upper Guard Sub.  
MUG 5 Length: 2.74 m Weight: 68.3 lb

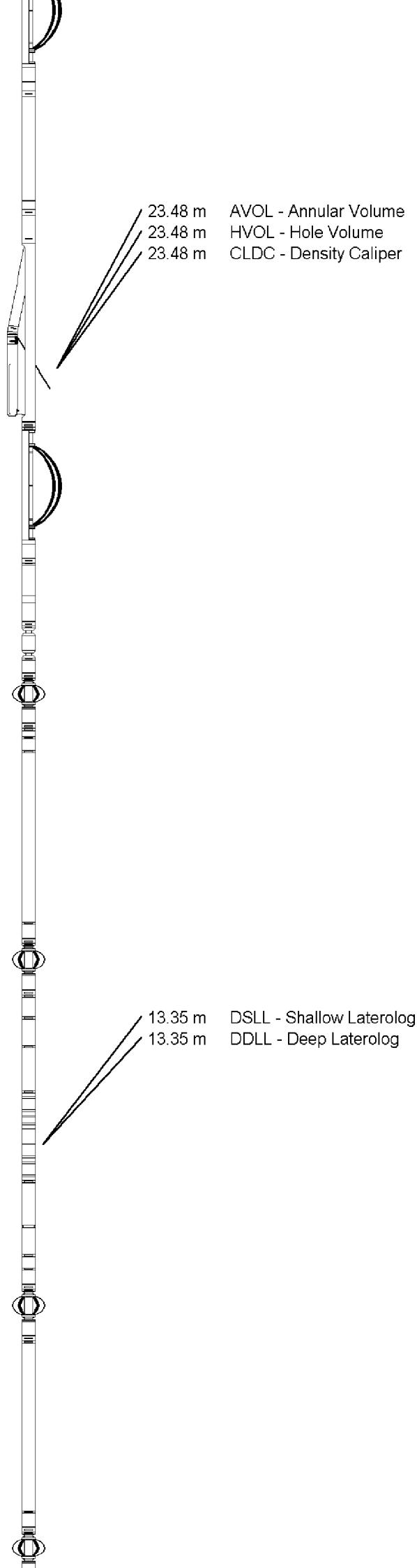
Compact Inline Standoff B  
MIS 135 Length: 0.65 m Weight: 15.4 lb

Compact Laterolog Electrode Sub.  
MLE 17 Length: 3.76 m Weight: 92.6 lb

Compact Inline Standoff B  
MIS 31 Length: 0.65 m Weight: 15.4 lb

Compact Lower Guard Sub.  
MLG 7 Length: 2.44 m Weight: 55.1 lb

Compact Inline Standoff B  
MIS 140 Length: 0.65 m Weight: 15.4 lb



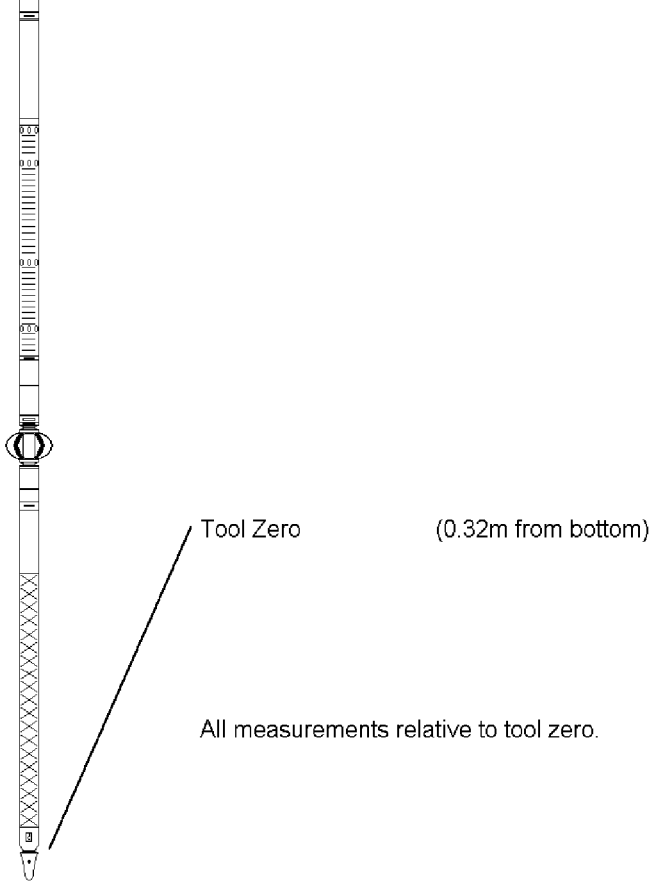
Compact Sonic  
MSS 47    Length: 3.82 m    Weight: 72.8 lb

Compact Inline Standoff B  
MIS 73    Length: 0.65 m    Weight: 15.4 lb

Compact Induction  
MAI 39    Length: 3.29 m    Weight: 48.5 lb

Pressure Bung + Hole Finder  
HFS 3    Length: 0.28 m    Weight: 6.6 lb

Total    Length: 53.18 m    Weight: 1294.1 lb



COMPANY	ESSO AUSTRALIA PTY. LTD.
WELL	MARLIN A24A
FIELD	TURRUM
PROVINCE/COUNTY	BASS STRAIT
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing	metres	First Reading	3270.12	metres
Elevation Drill Floor	27.91 metres	Depth Driller	3275.00	metres
Elevation Ground Level	-59.00 metres	Depth Logger	3270.50	metres



Dual Laterolog  
Gamma Ray  
1:200 MD