



DUAL LATEROLOG - GR
DENSITY - NEUTRON

Compact

1:200 MD

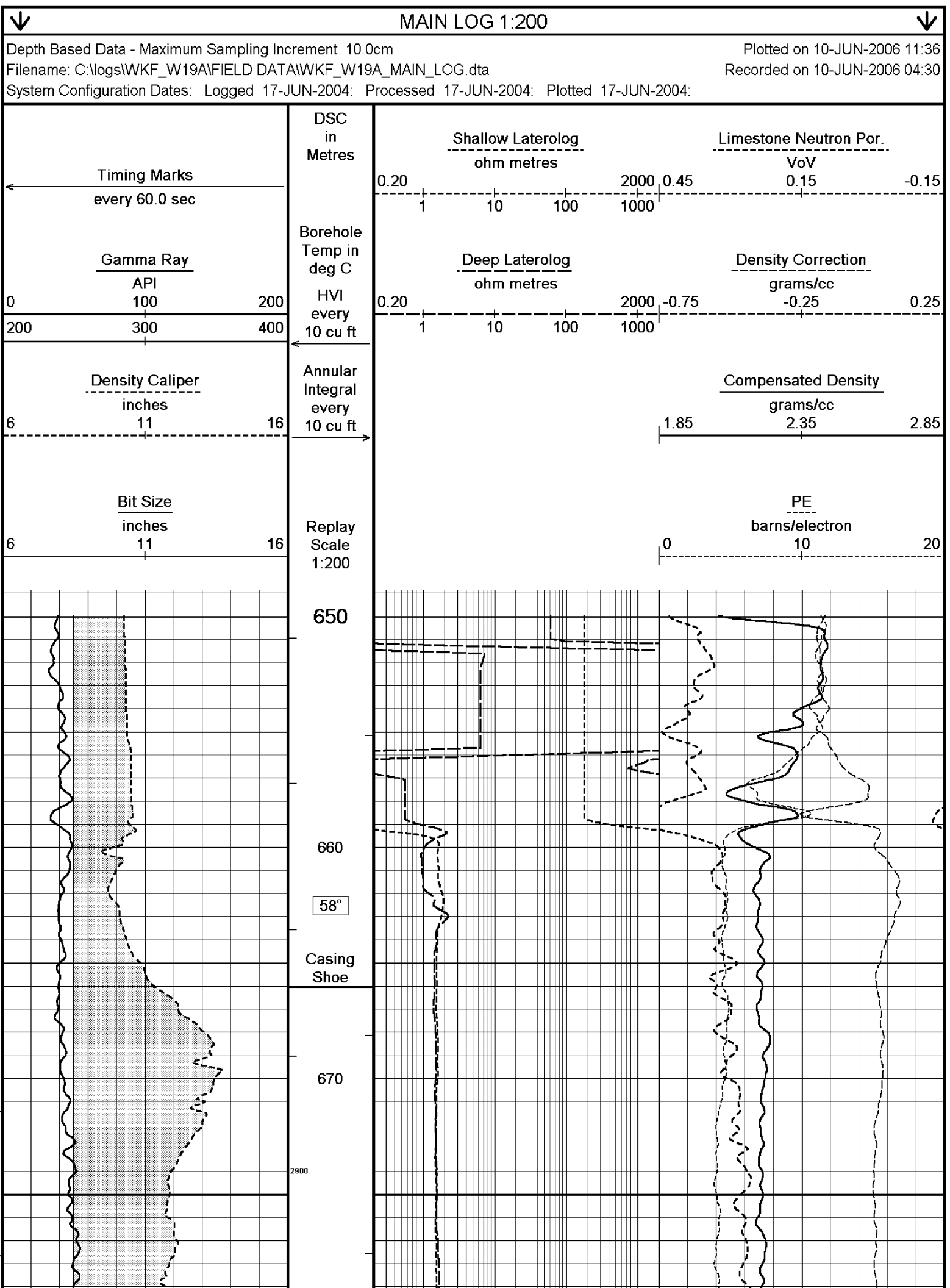
COMPANY			ESSO AUSTRALIA PTY.LTD		
WELL			WKF W19A		
FIELD			KINGFISH GDA94		
PROVINCE/COUNTY			BASS STRAIT, VICTORIA		
COUNTRY/STATE			AUSTRALIA		
LOCATION			S 38 35 34.833, E 148 6 19.318		
			N 5727806.791 m, E 596262.840 m		
			FIELD PRINT		
LSD	SEC	TWP	RGE	Other Services	
				COMPENSATED SONIC	
API Number					
Permit Number					
Permanent Datum L		, Elevation 0.0		metres	
Log Measured From DF @ 33.4m		above Permanent Datum			
Drilling Measured From DF				Elevations: KB 33.43 metres DF 33.43 metres GL -76.13 metres	
Date	10-JUN-2006				
Run Number	ONE				
Depth Driller	2687.00				metres
Depth Logger	2684.00				metres
First Reading	2670.65				metres
Last Reading	666.00				metres
Casing Driller	666.00				metres
Casing Logger	666.00				metres
Bit Size	8.50				inches
Hole Fluid Type	KCL/PHPA				
Density / Viscosity	1.13 g/cc		23.00 CP		
PH / Fluid Loss	8.80		3.40 ml/30Min		
Sample Source	FLOWLINE				
Rm @ Measured Temp	0.106 @ 25.0				ohm-m
Rmf @ Measured Temp	0.085 @ 25.0				ohm-m
Rmc @ Measured Temp	0.114 @ 25.0				ohm-m
Source Rmf / Rmc	MEAS		MEAS		
Rm @ BHT	0.05 @ 79.3		ohm-m		
Time Since Circulation	37 HRS				
Max Recorded Temp	83.20		deg C		
Equipment Name	CWL				
Equipment / Base	1		SALE		
Recorded By	R L TENCH, B J R MOSS				
Witnessed By	T LOBO				
LAST CIRC	8/06 04:00				Last Line

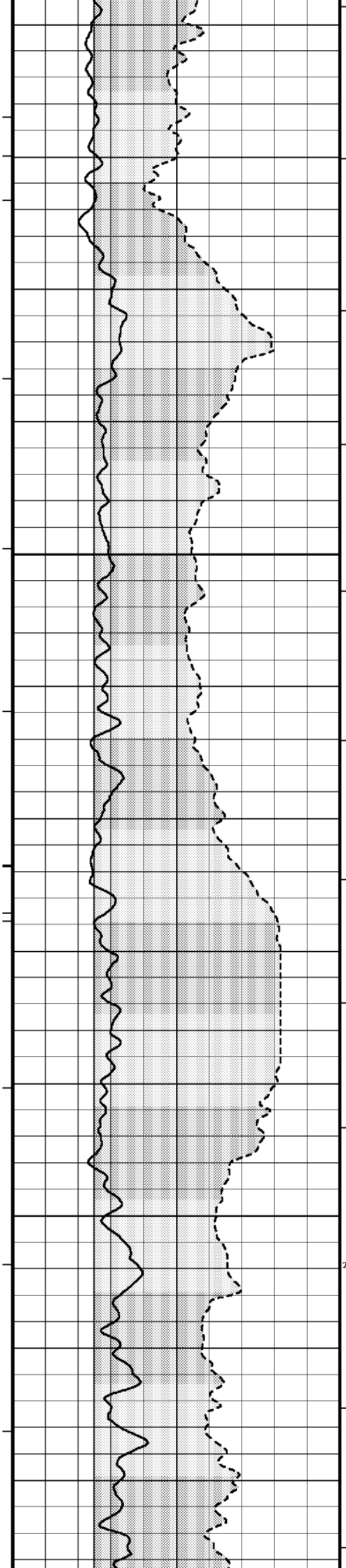
BOREHOLE RECORD				
Bit Size inches		Depth From metres		Depth To metres
8.500		666.00		2687.00

CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	10.750	0.00	666.00	40.50

REMARKS
RIG: NABORS 453
5" SHUTTLE/MEMORY COMPACT OPERATION. CREW: R TENCH , B MOSS , B GOODWIN, M KOLCZE.
FIELD FINAL LOGS TO BE CORRELATED TO ANADRILL GAMMA LOG.
MAX. TEMPERATURE: 83.2 DEG C AT 2636 m MD MAX. INCLINATION: 37 DEG AT 665 m MD MAX. DOGLEG SERVERITY: 6.21 DEG/30m AT 696.25 m MD DEPLOYMENT ANGLE: 26.98 DEG
HVOL: 2890 FT^3 AVOL: 1120 FT^3
LOGGING SPEED 6M/MIN FROM TD TO 2439.2 M MD LOGGING SPEED 12 M/MIN FROM 2439.2 TO 1749.3 M MD LOGGING SPEED 6 M/MIN FROM 1749.3 TO 1519.3 M MD LOGGING SPEED 12 M/MIN FROM 1519.3 TO 1289.4 M MD LOGGING SPEED 6 M/MIN FROM 1289.4 TO 628.8 M MD

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.





680

58°

690

700

710

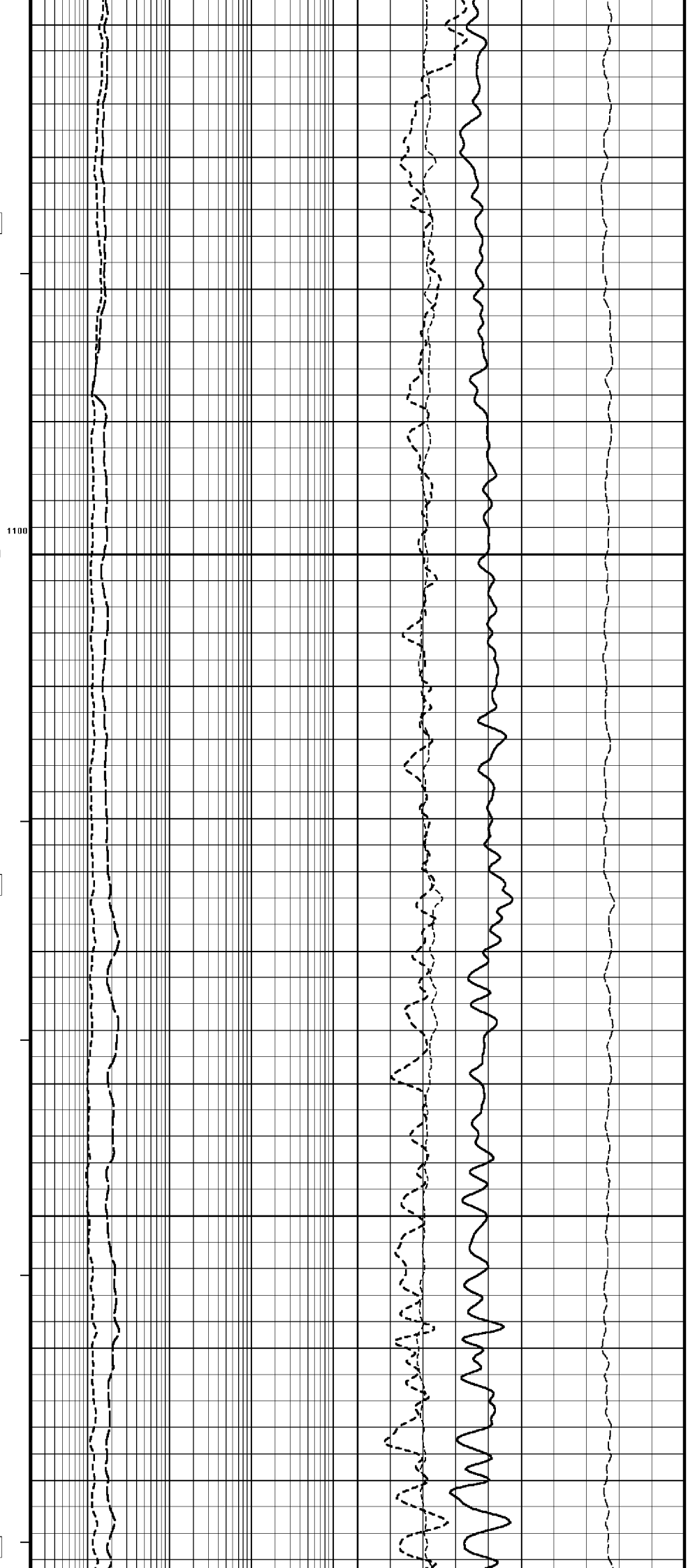
58°

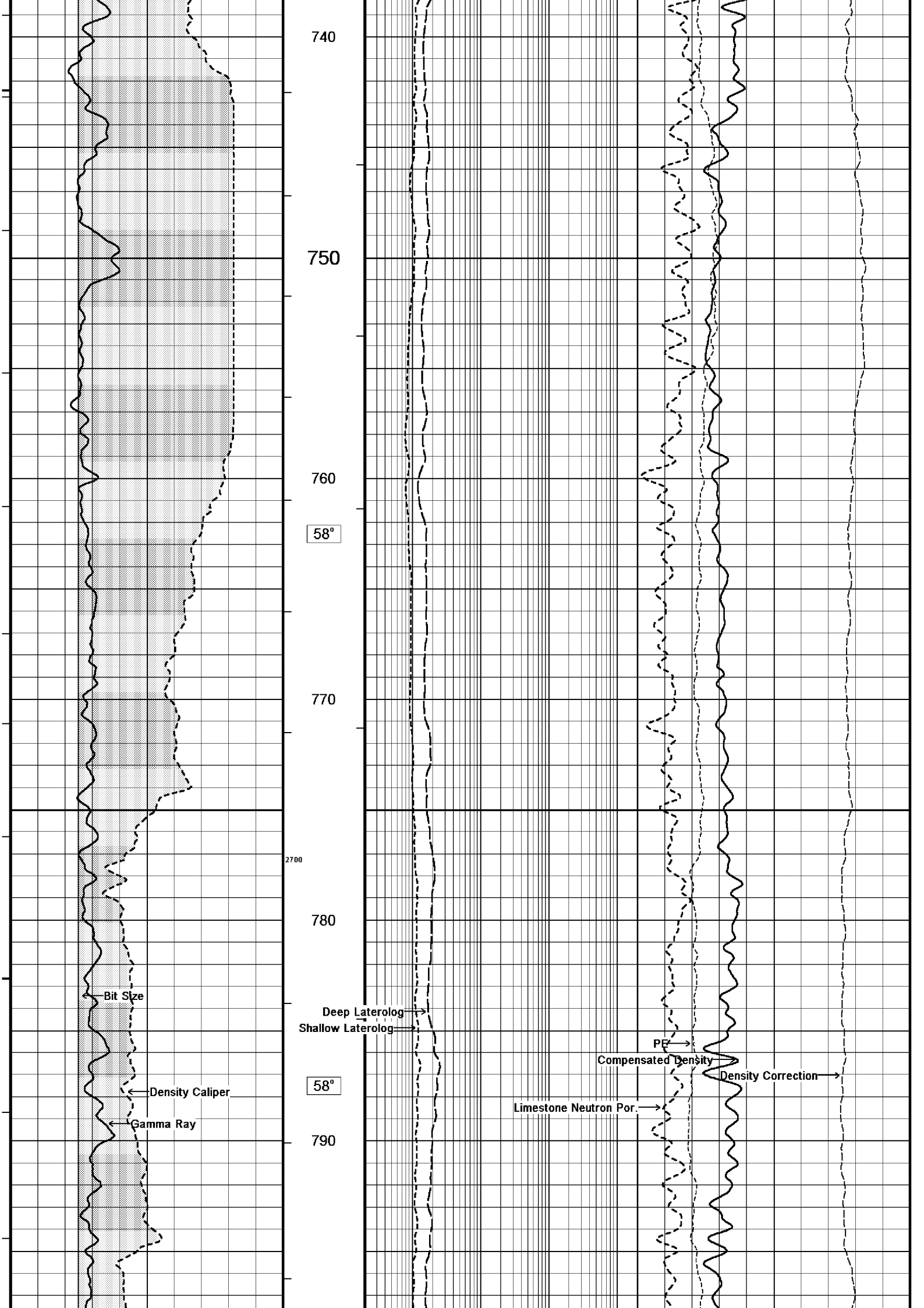
720

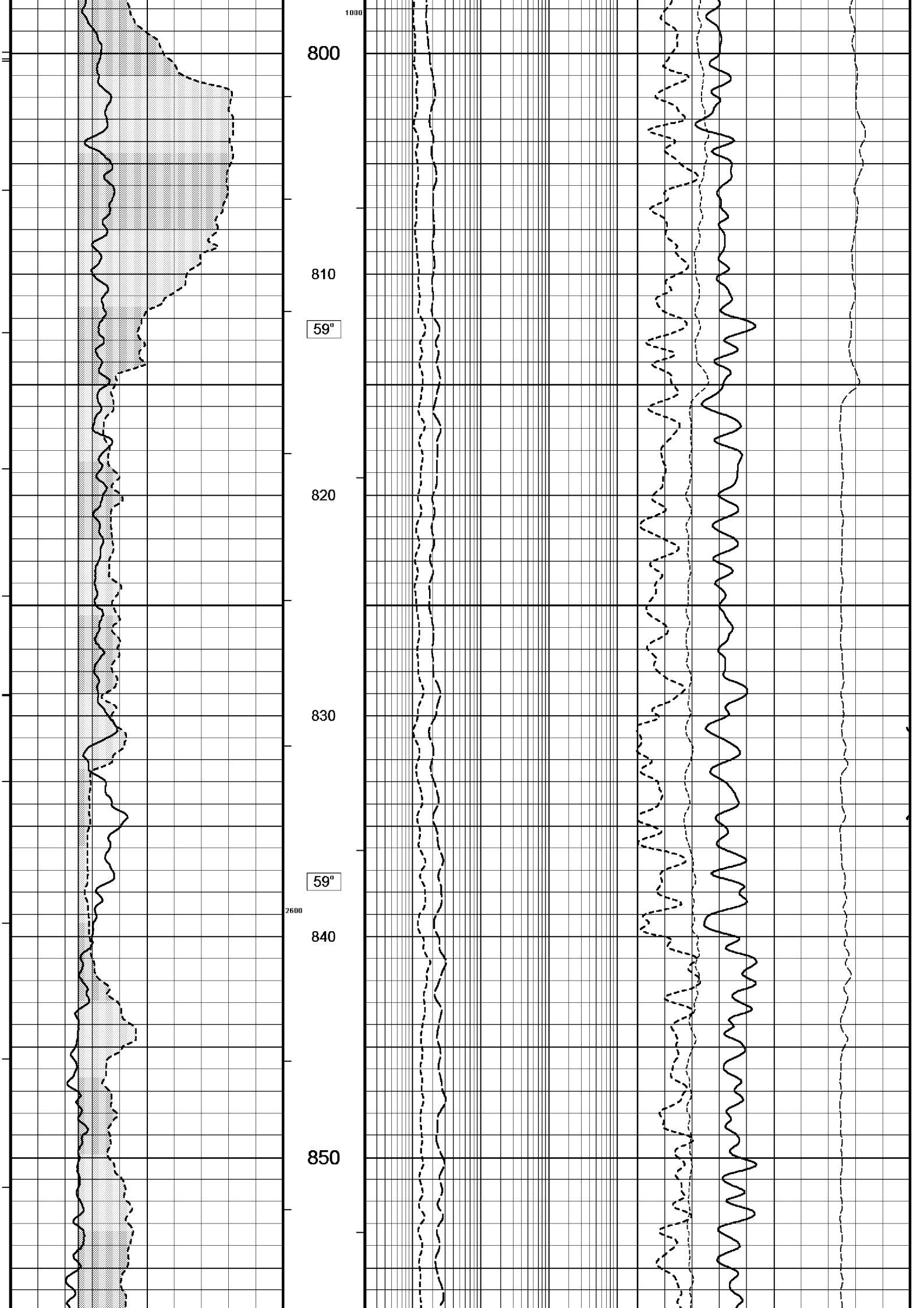
2000

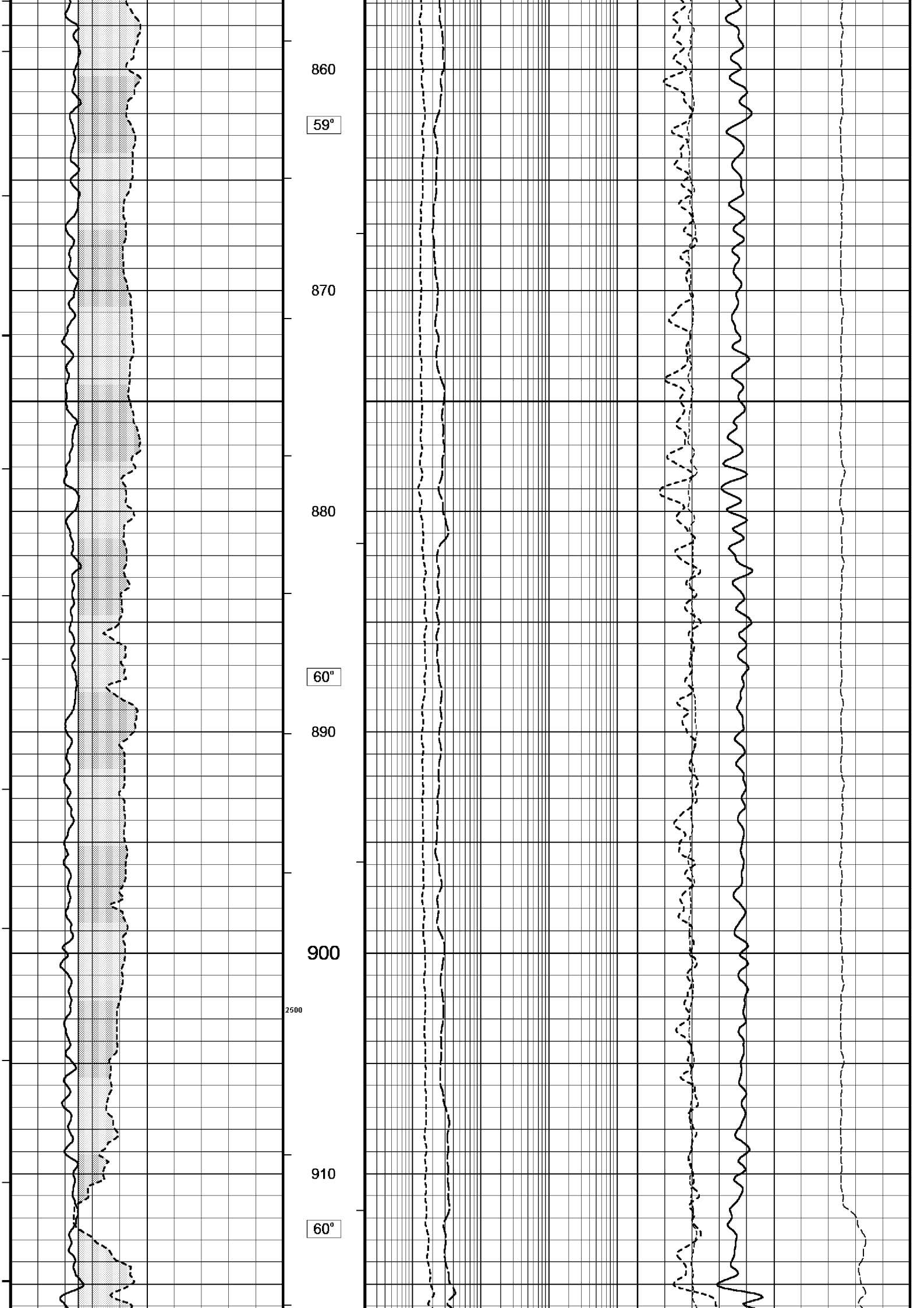
730

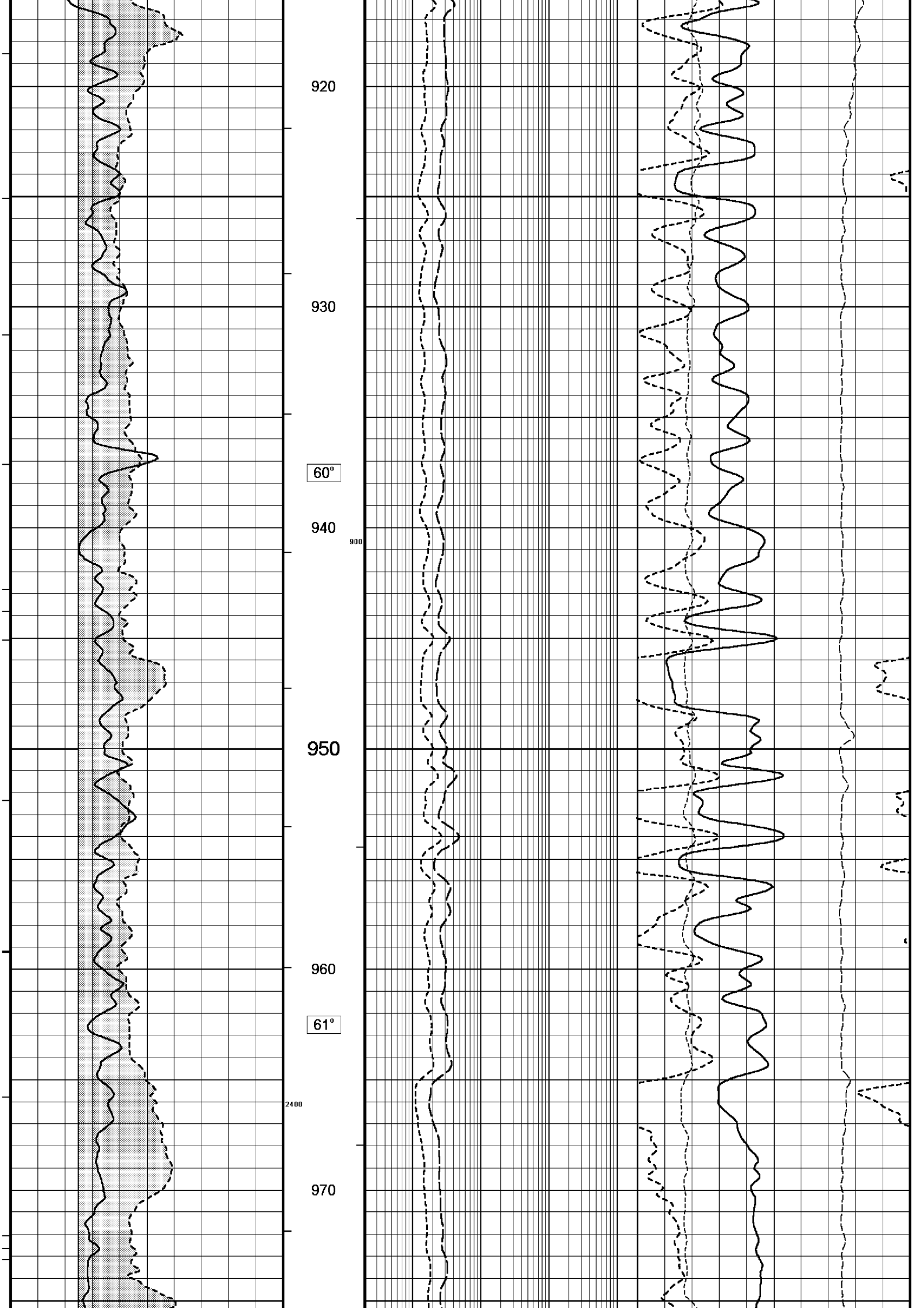
58°

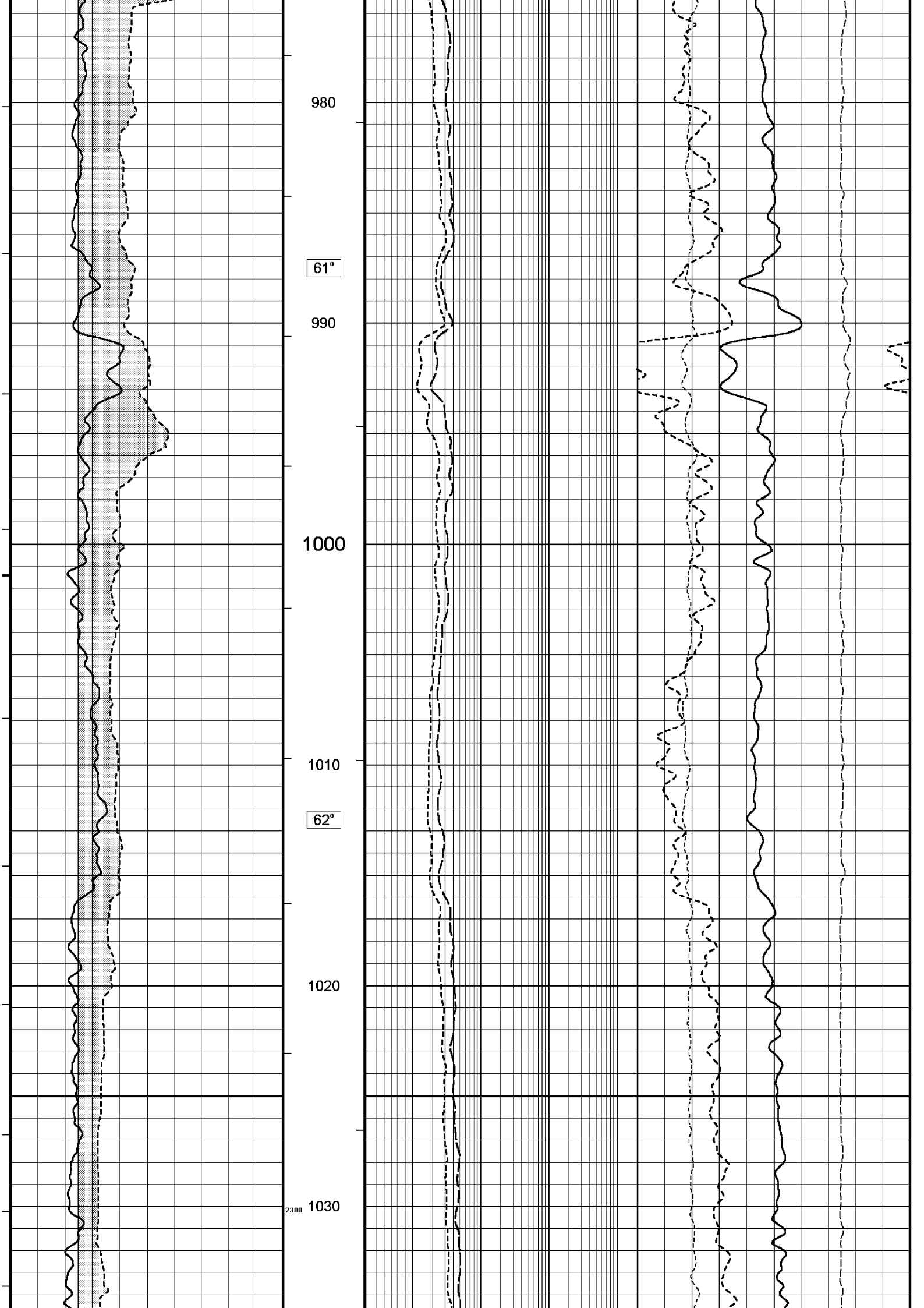


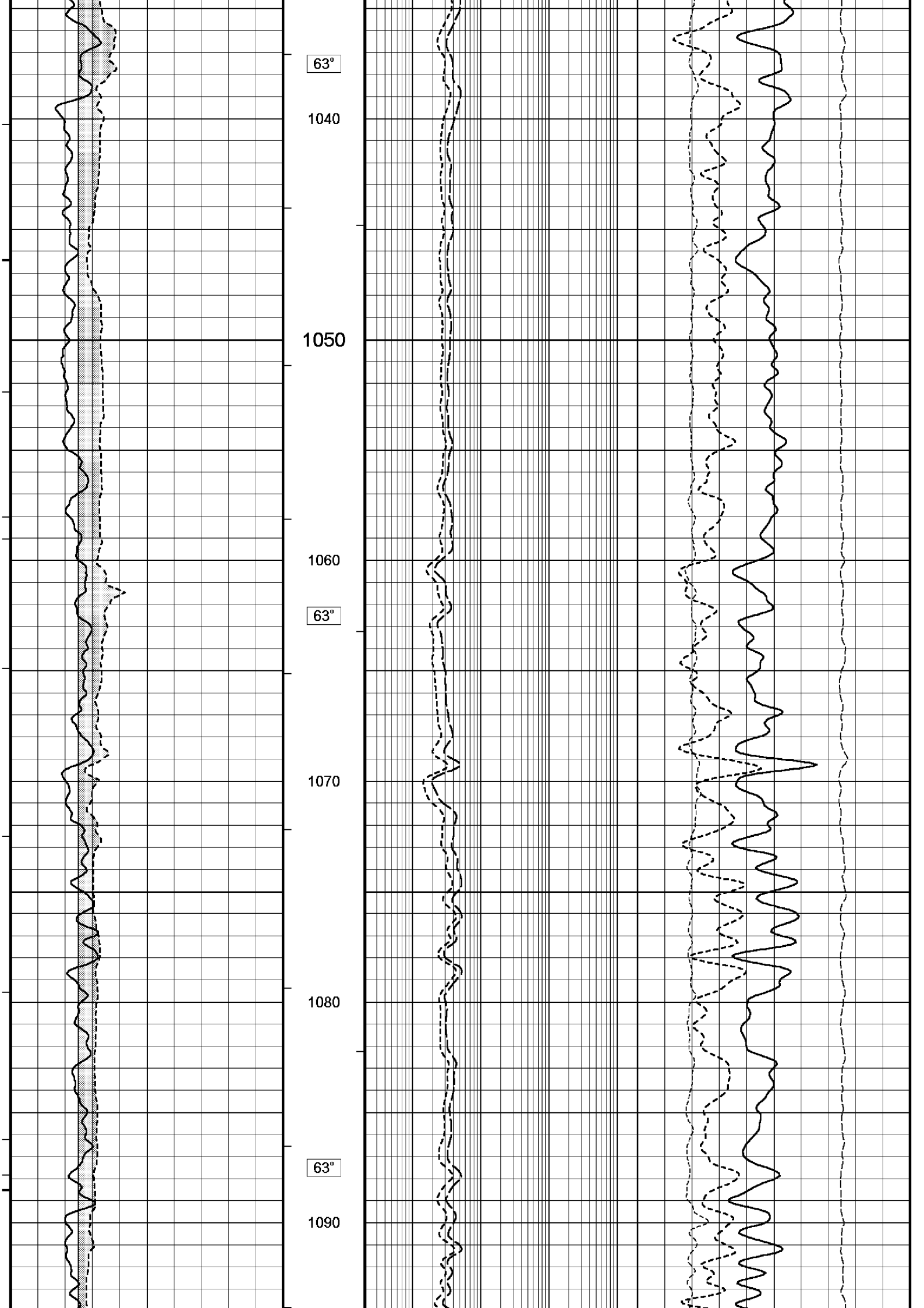


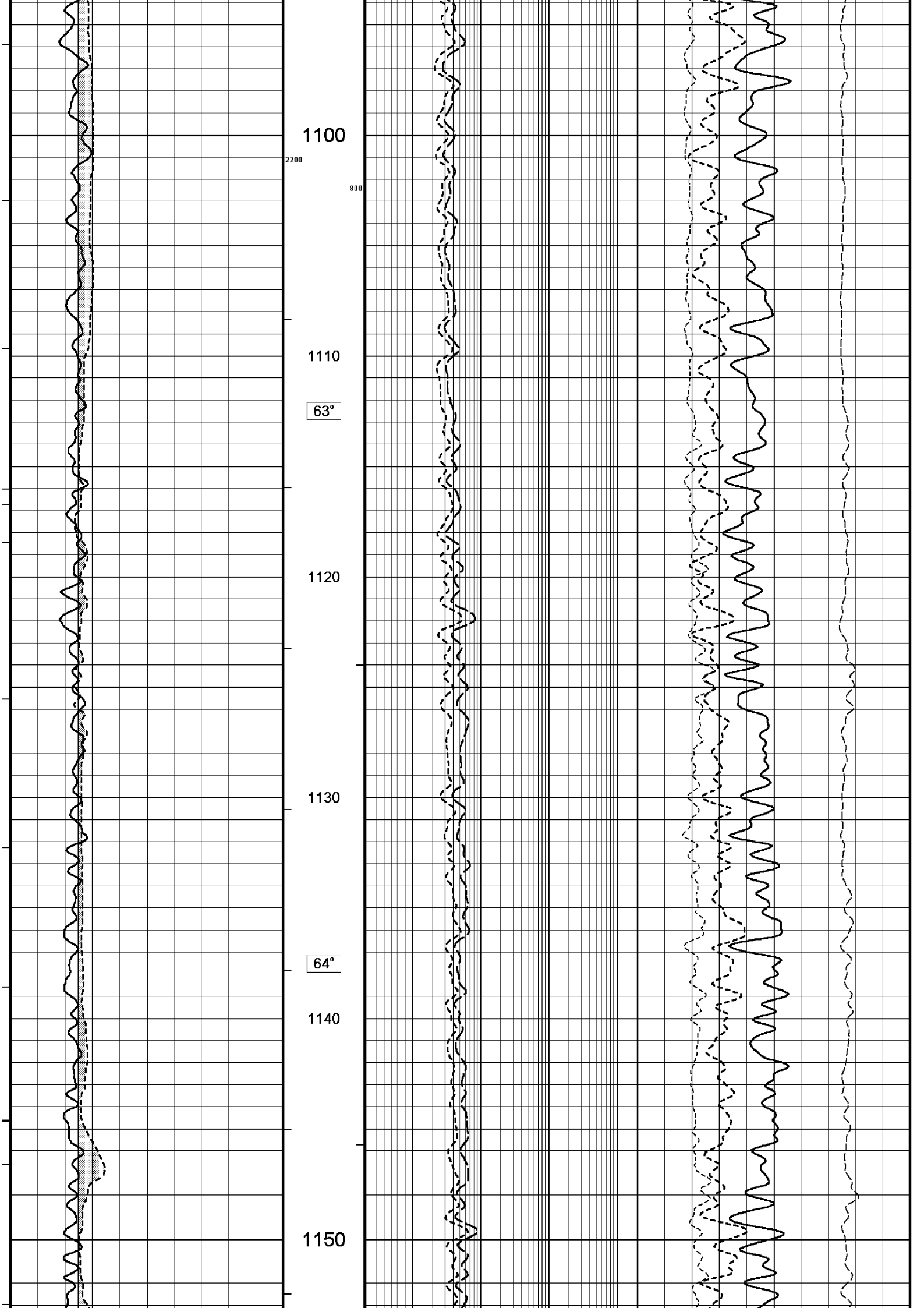


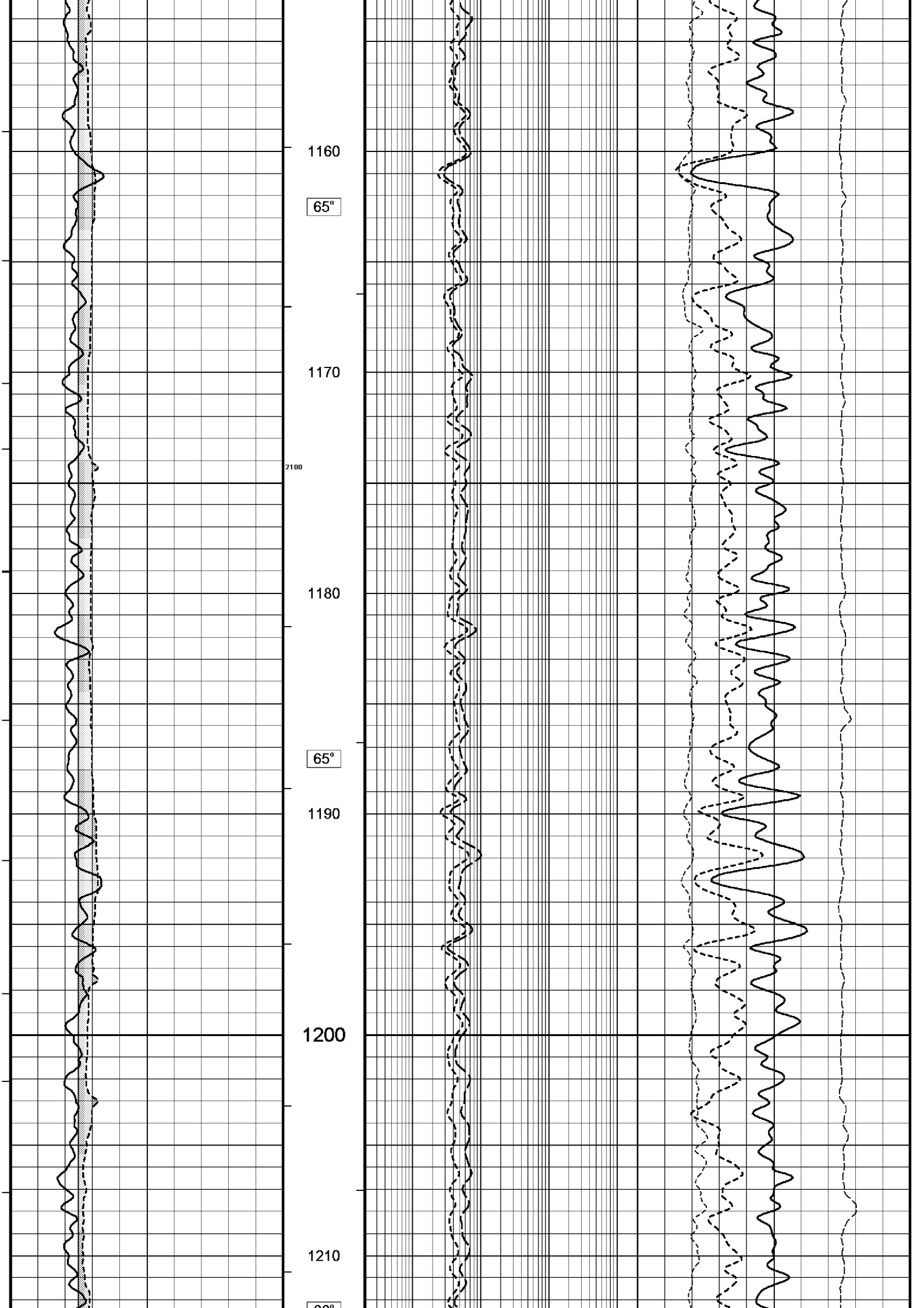


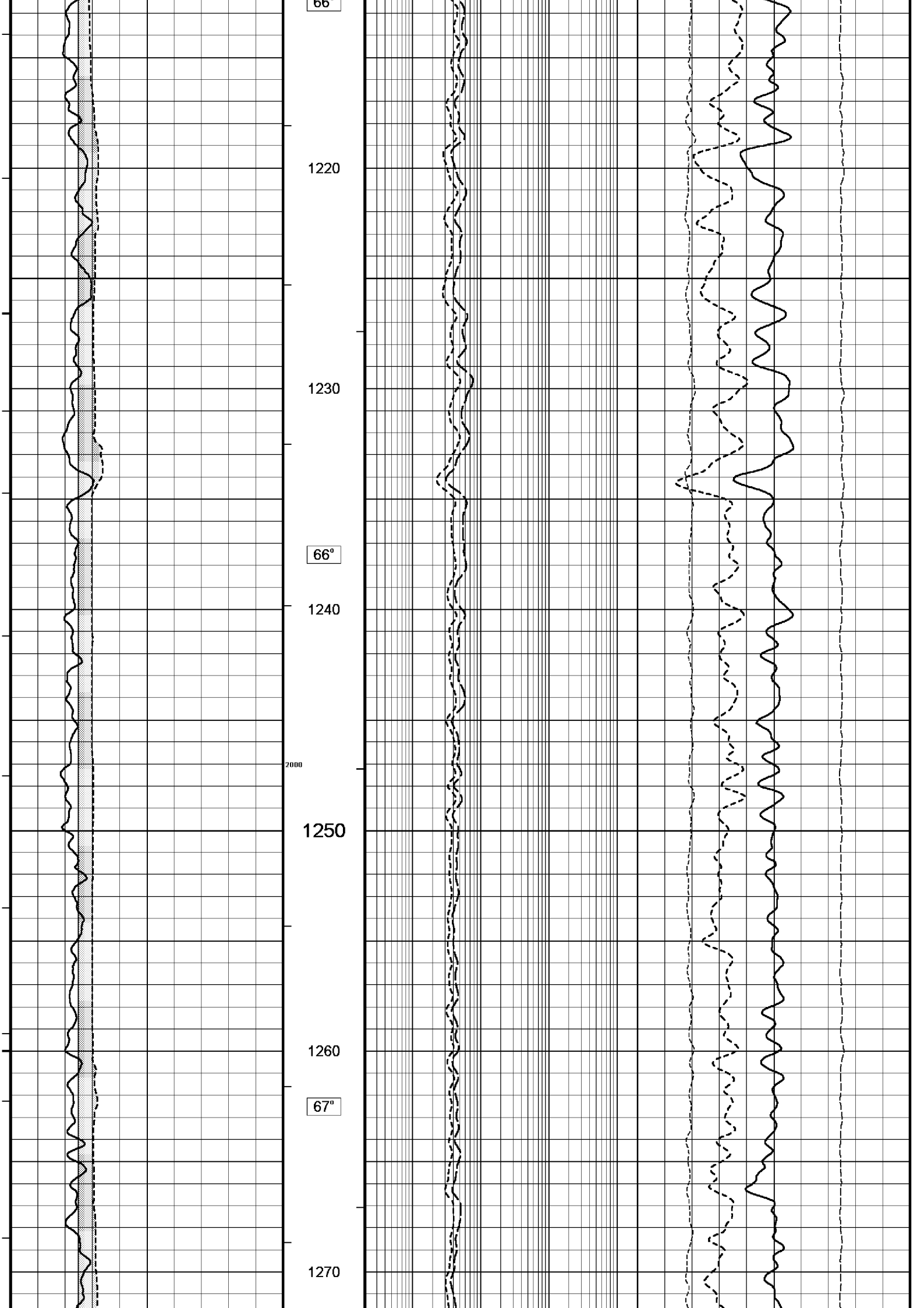


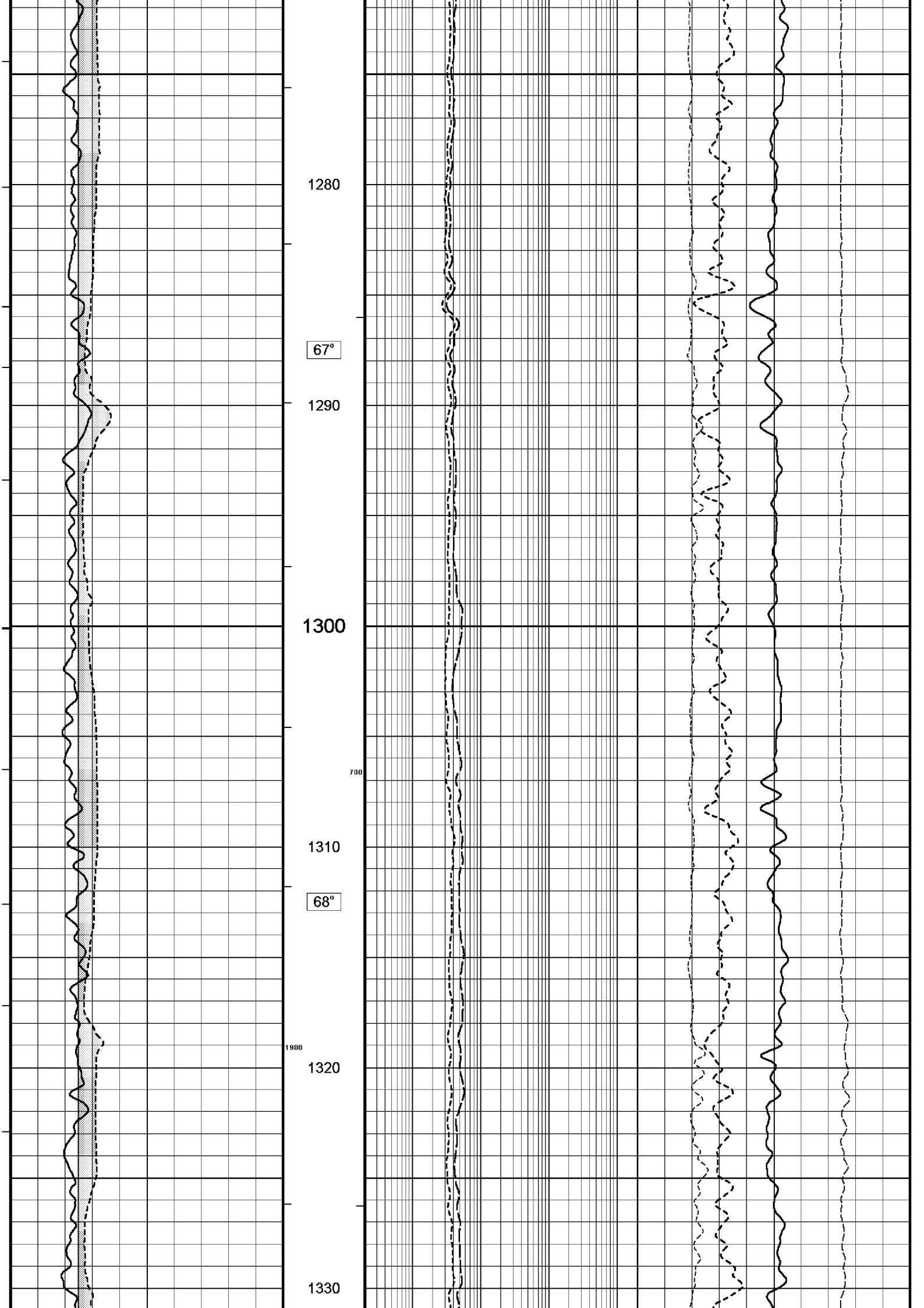


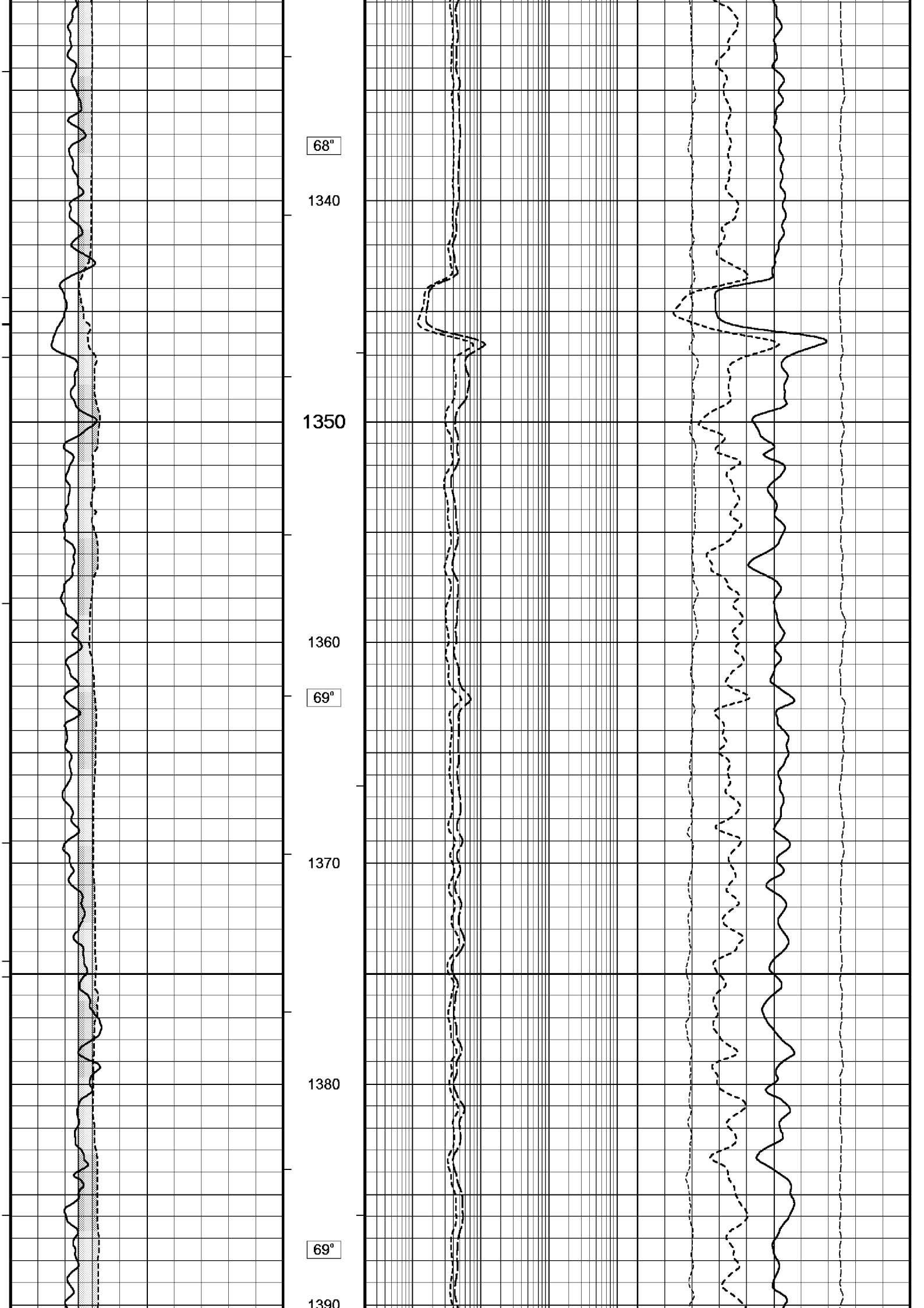


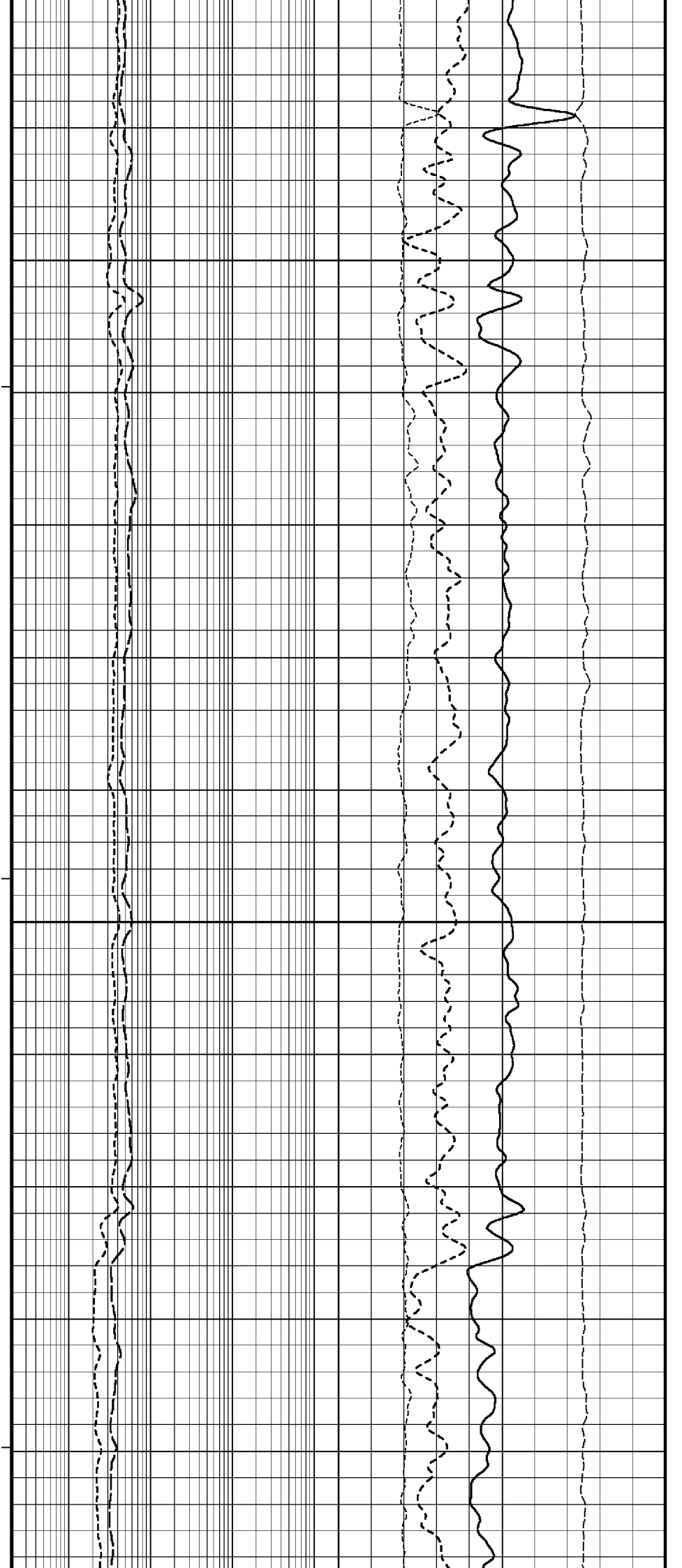
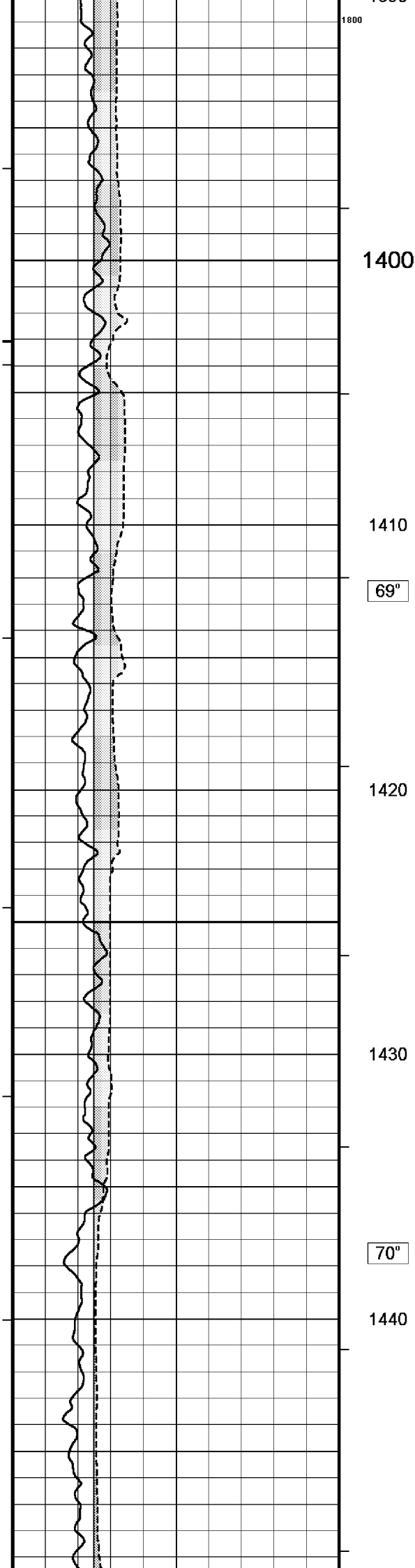


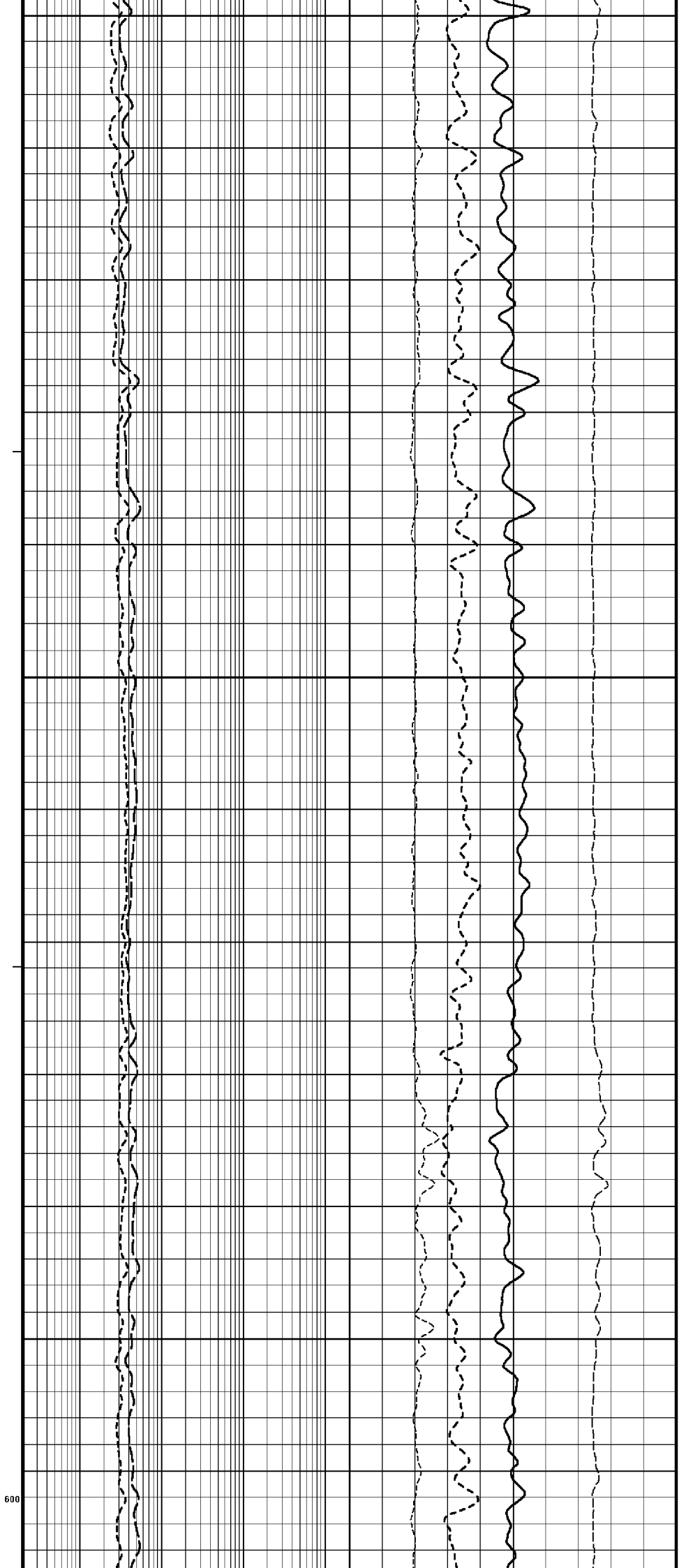
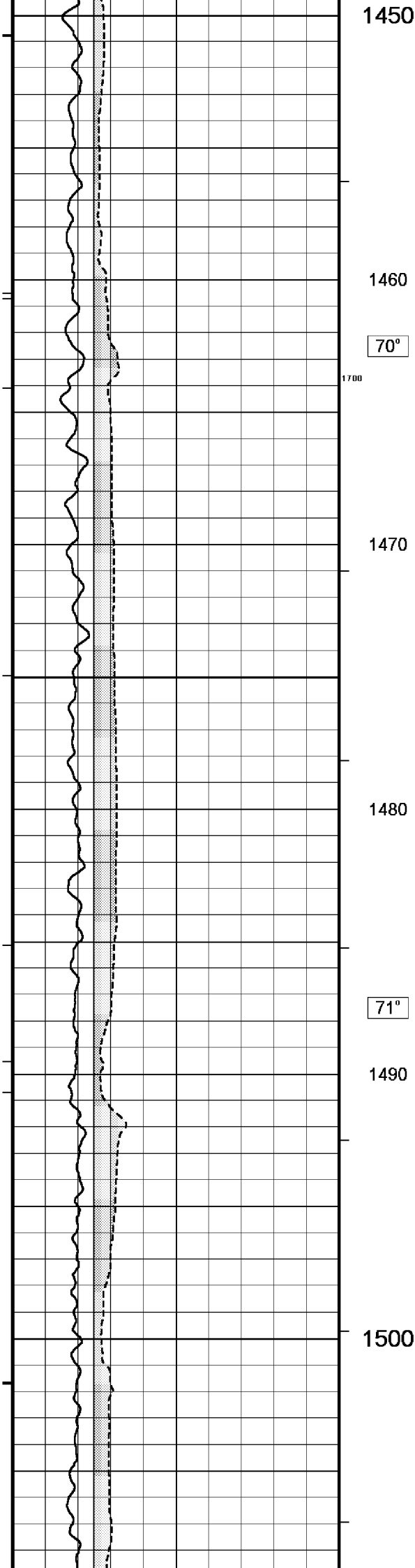


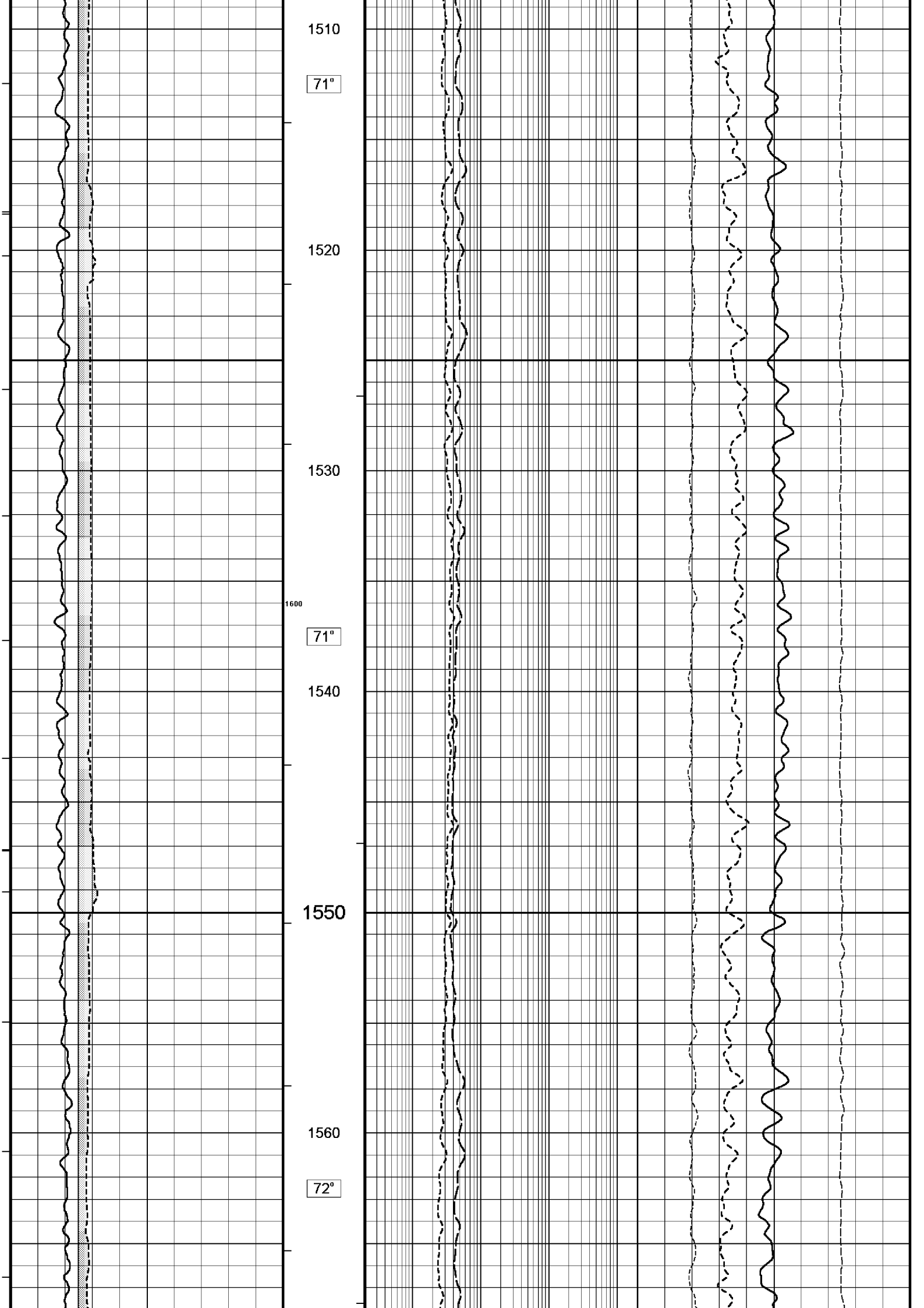


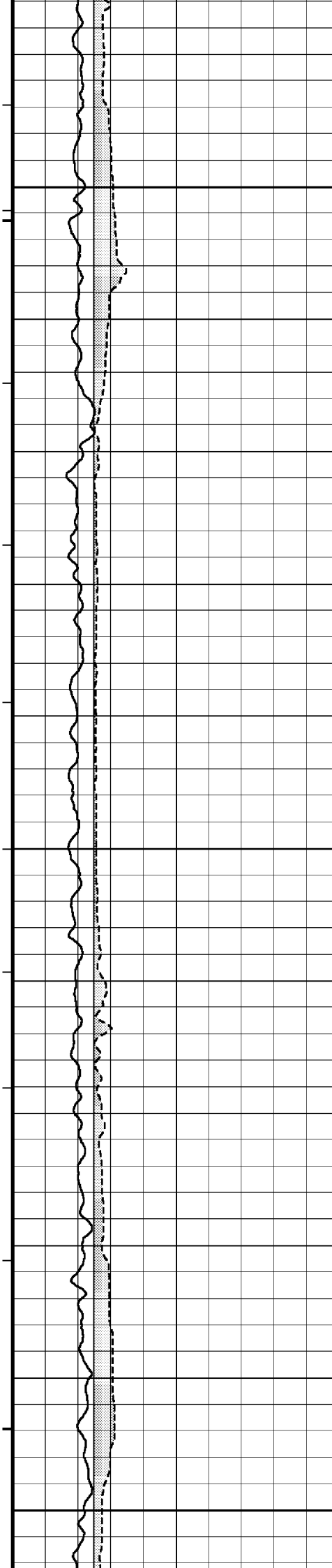












1570

1580

72°

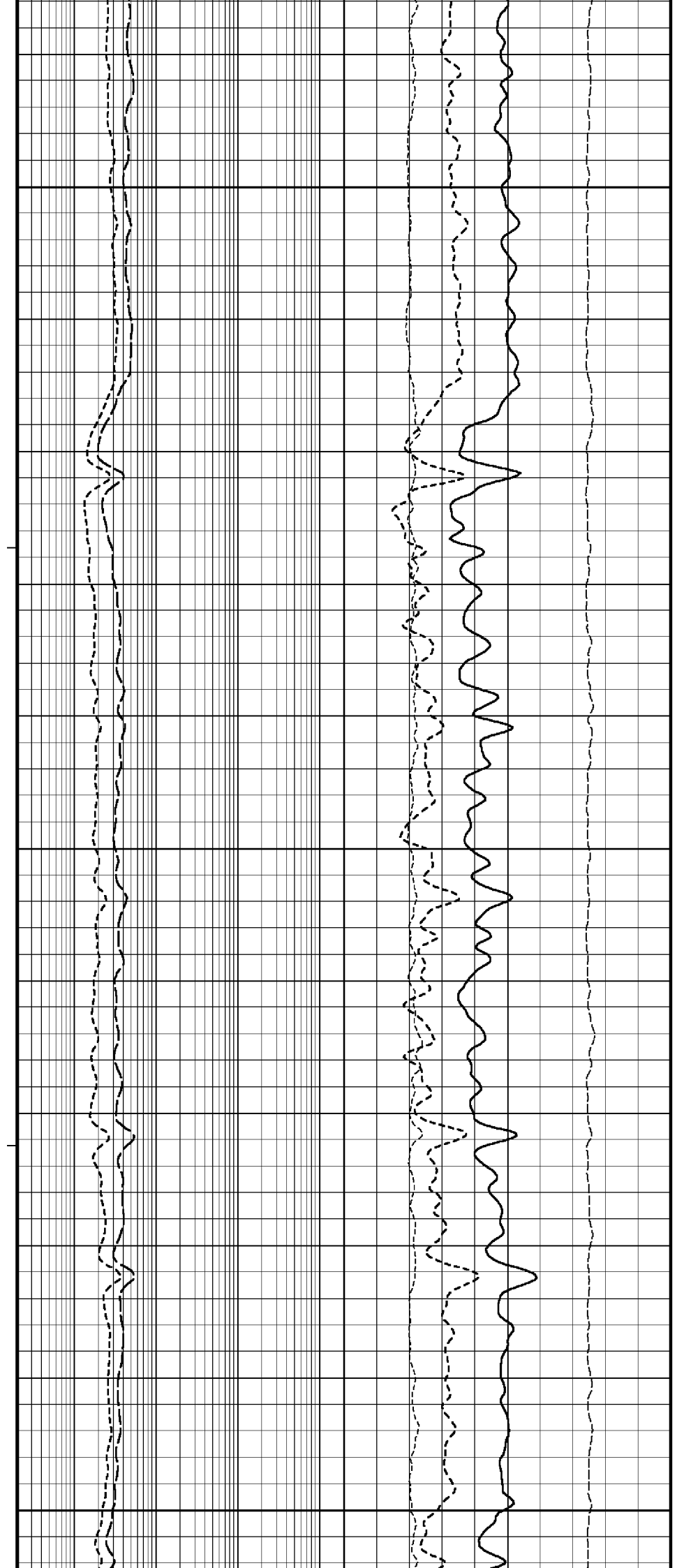
1590

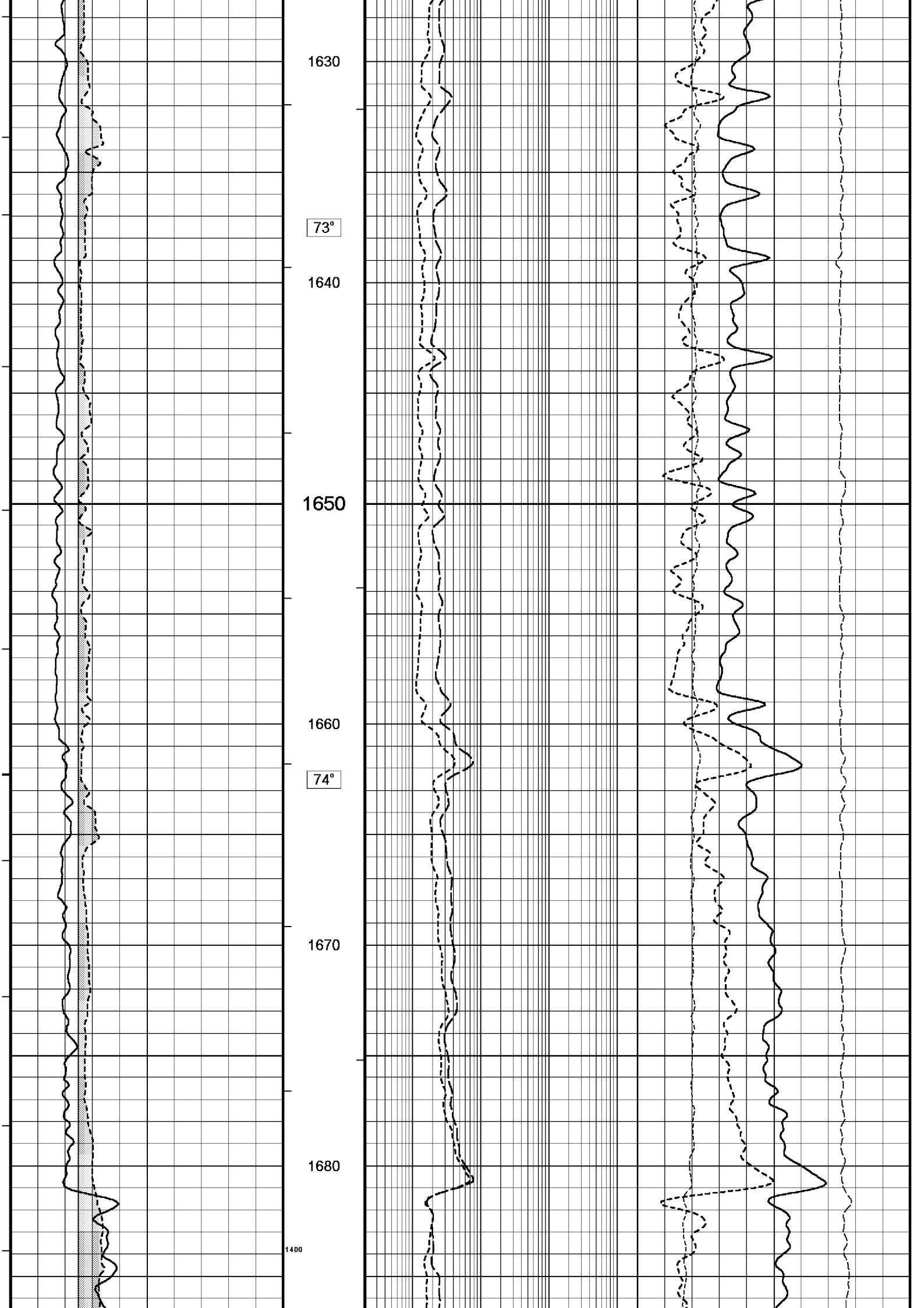
1600

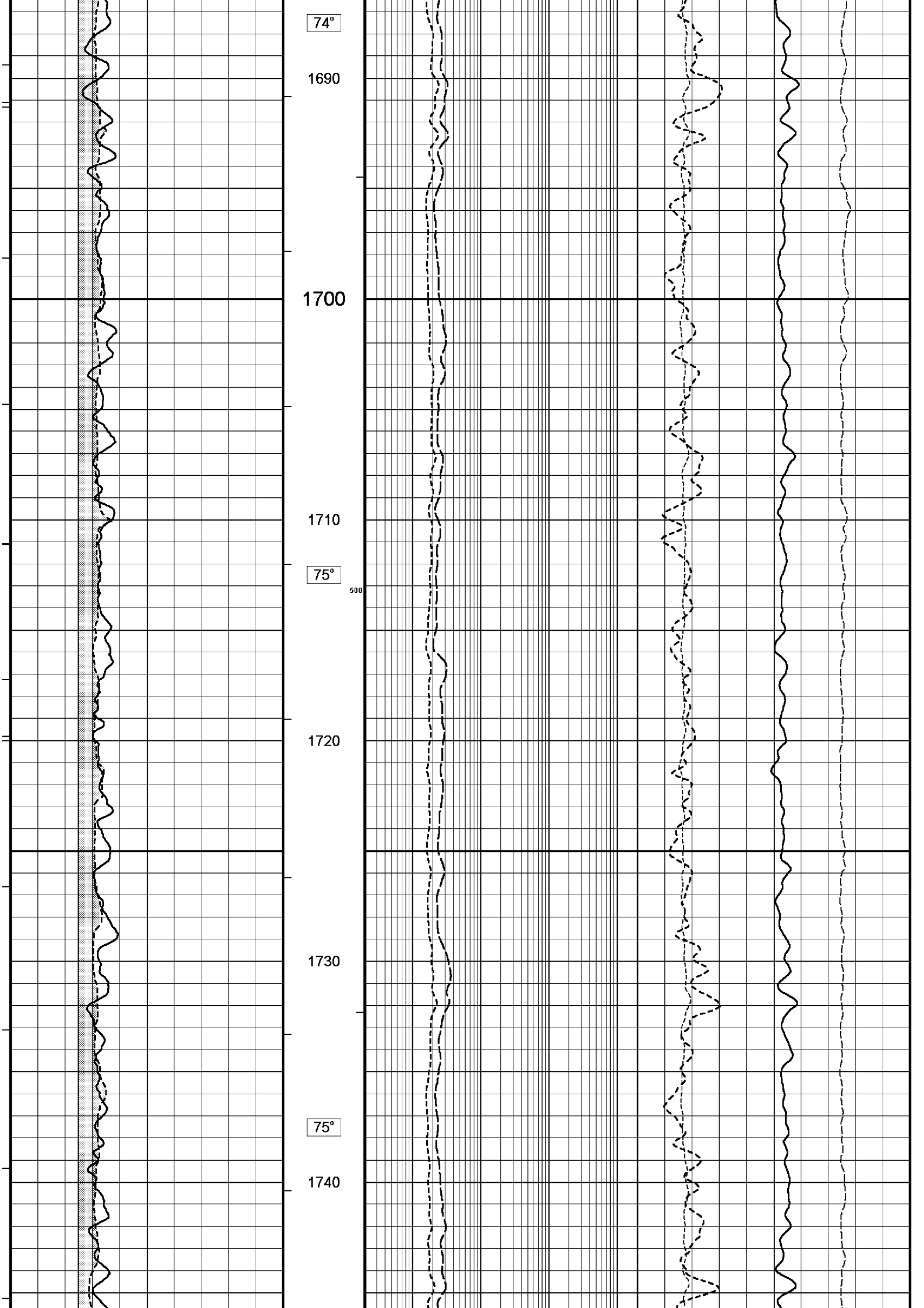
1500 1610

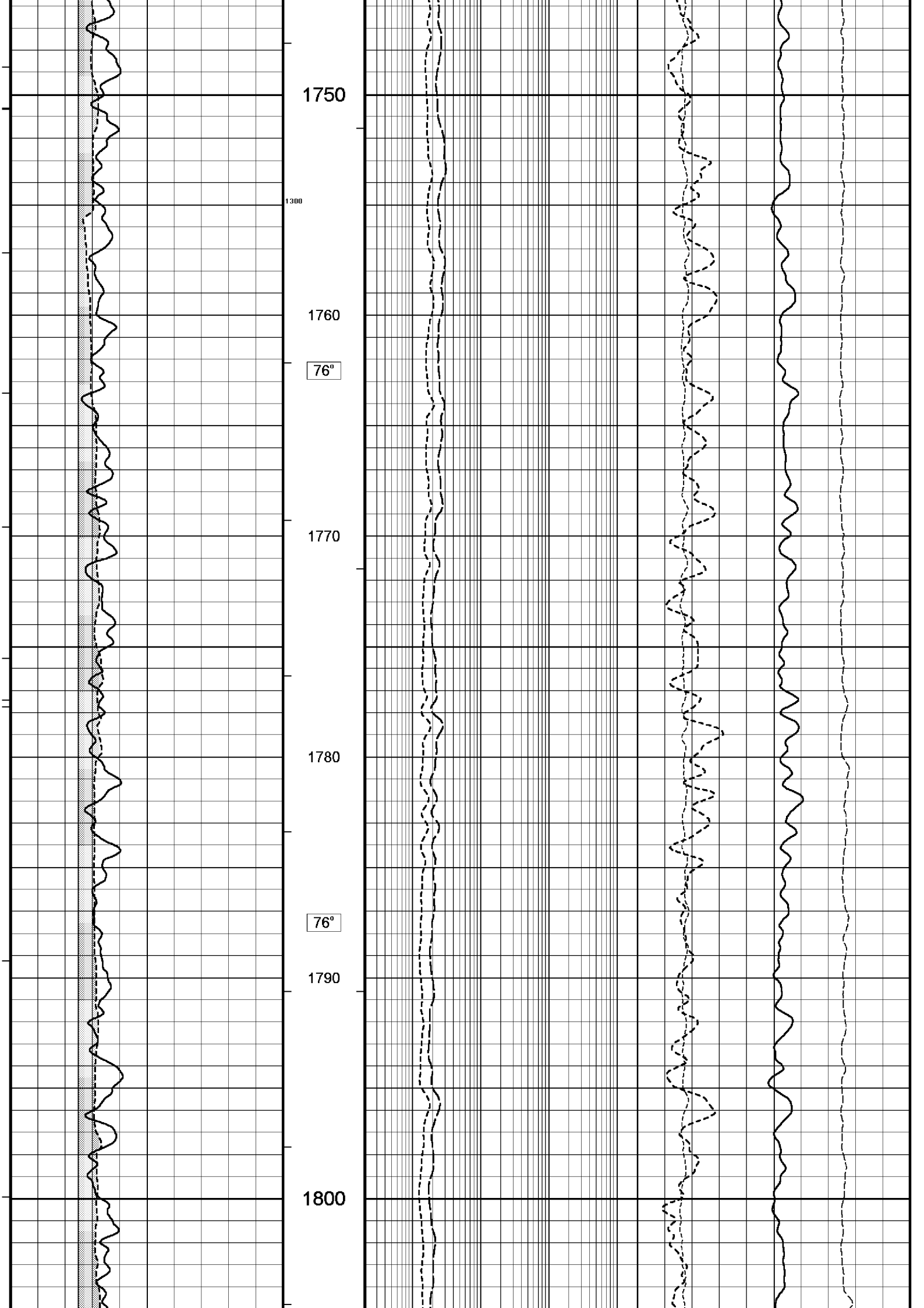
73°

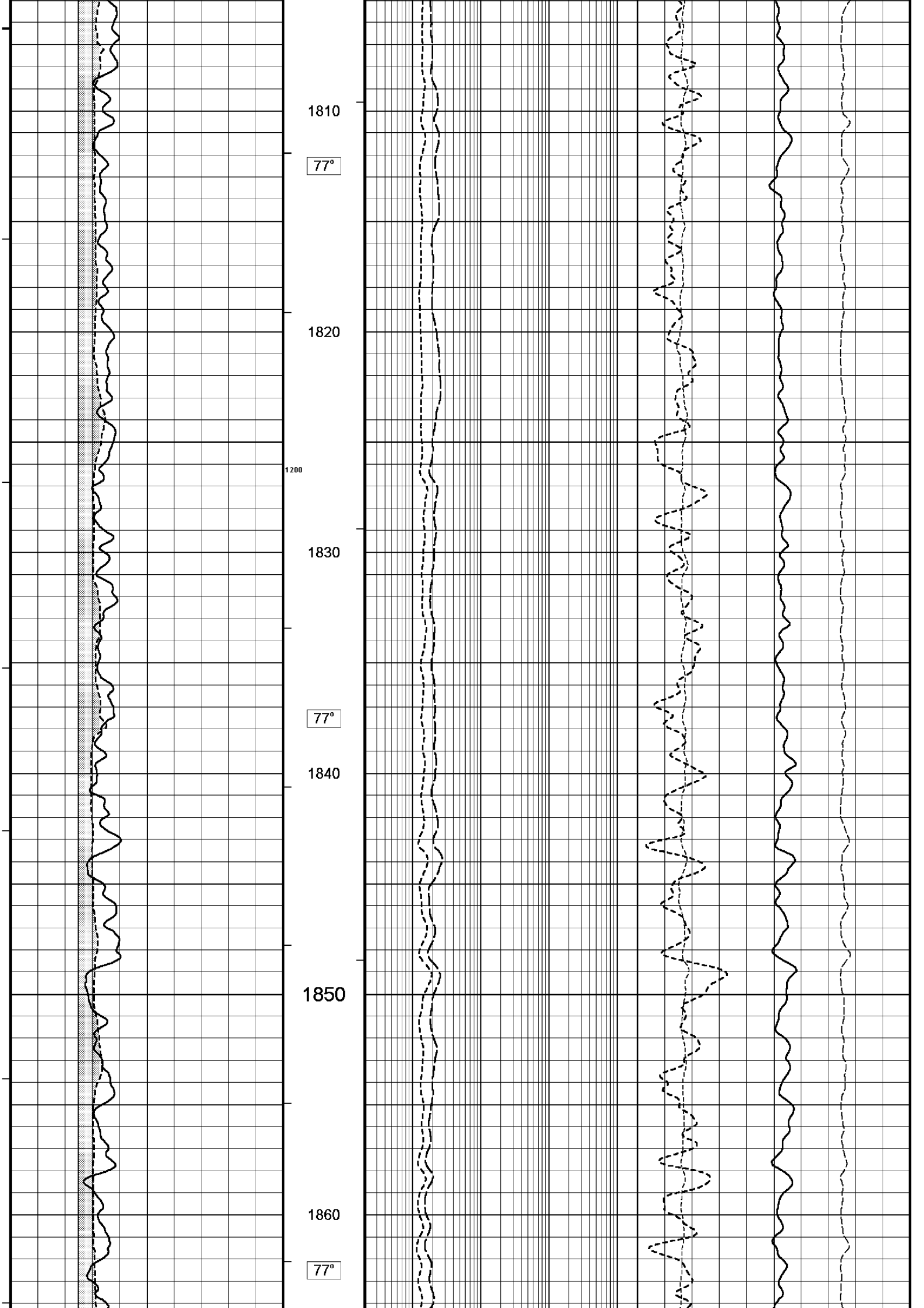
1620

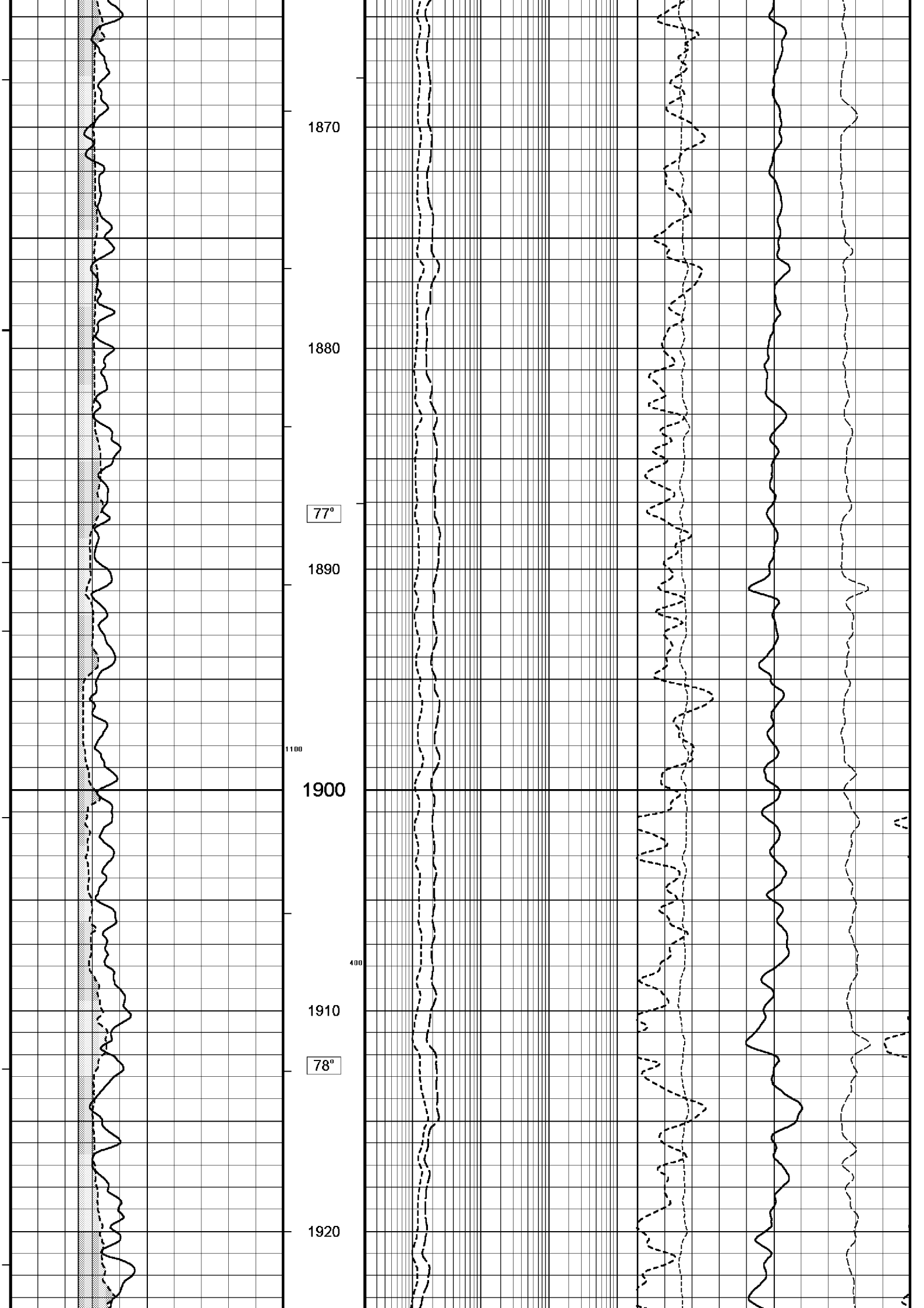


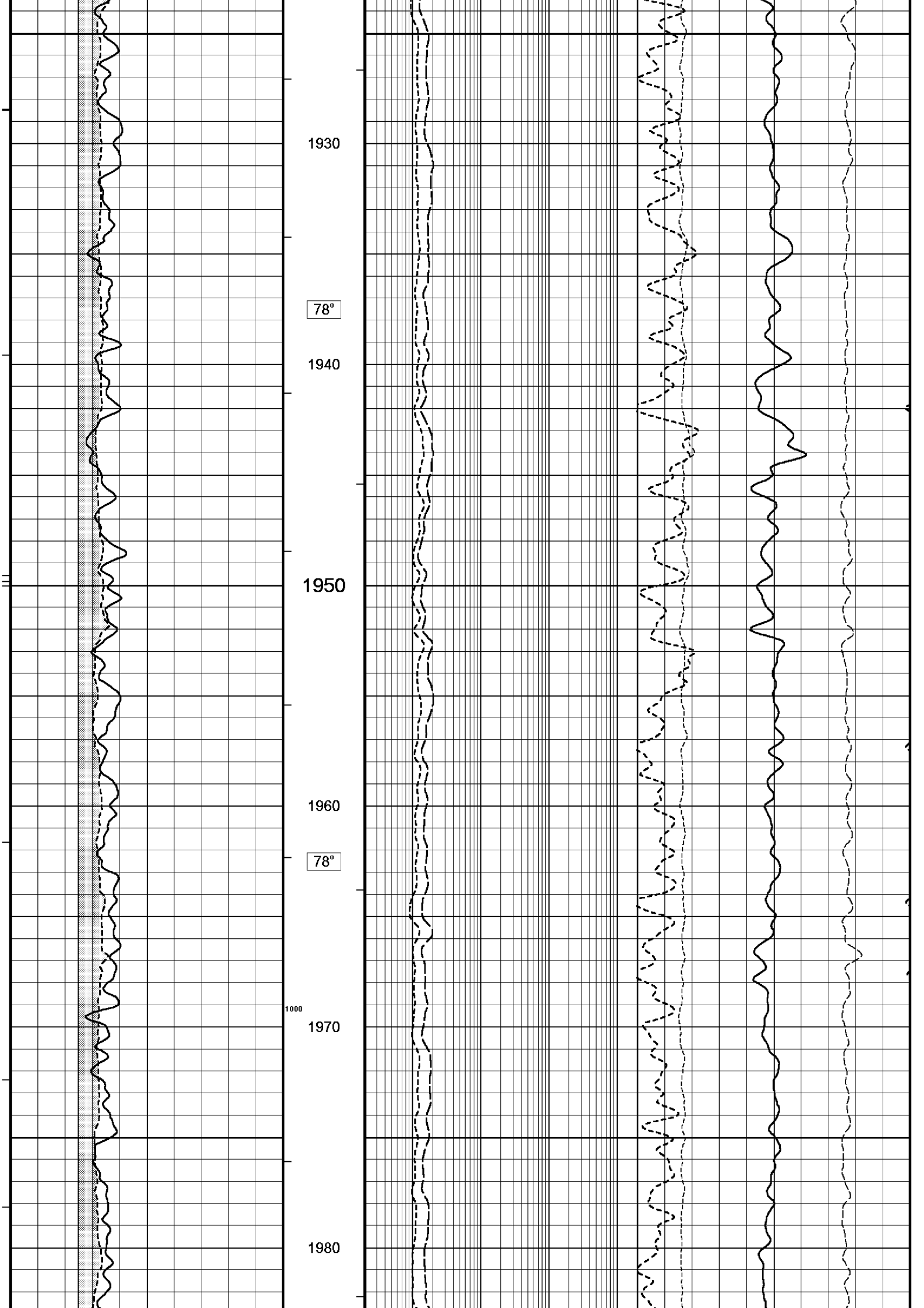


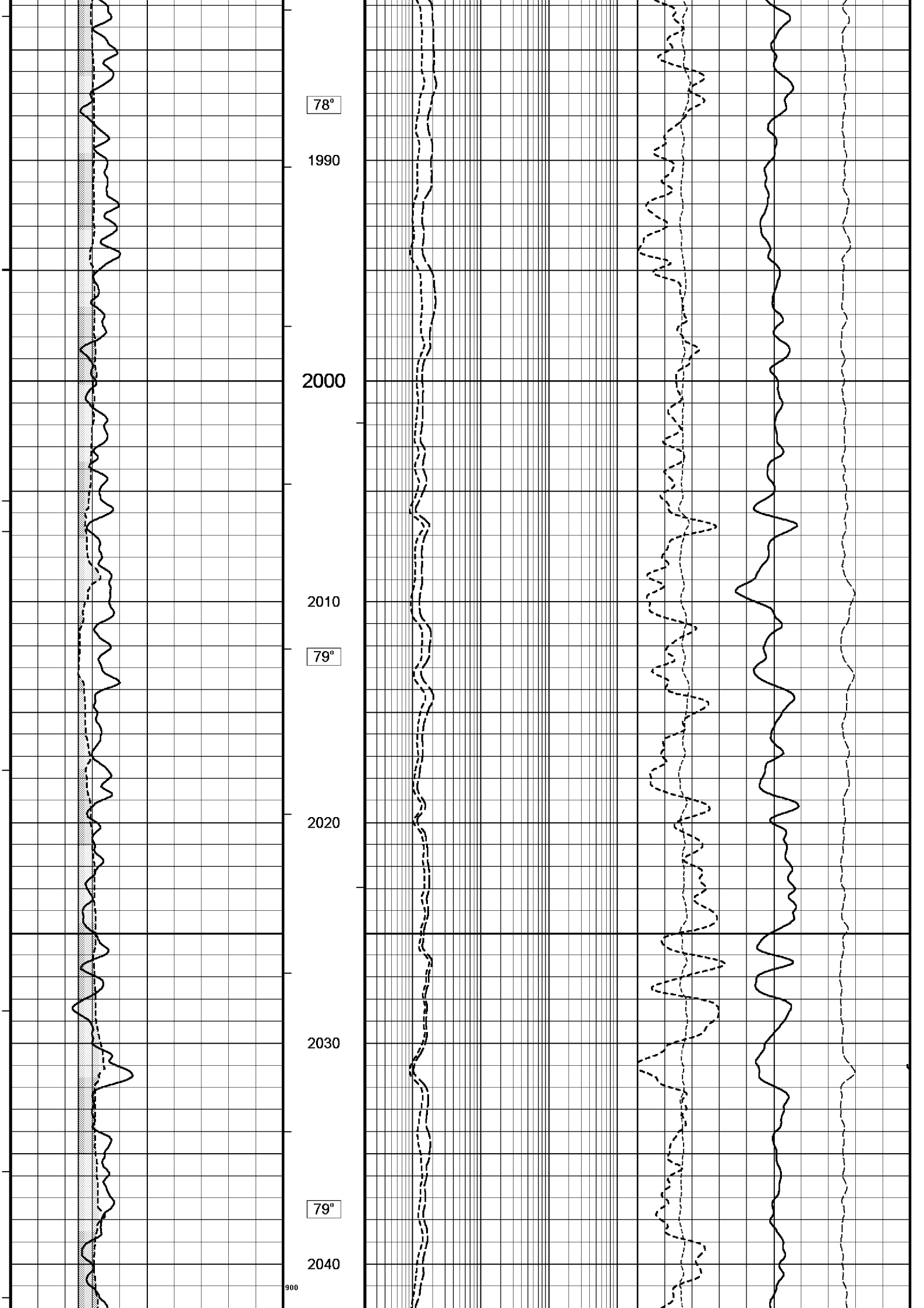


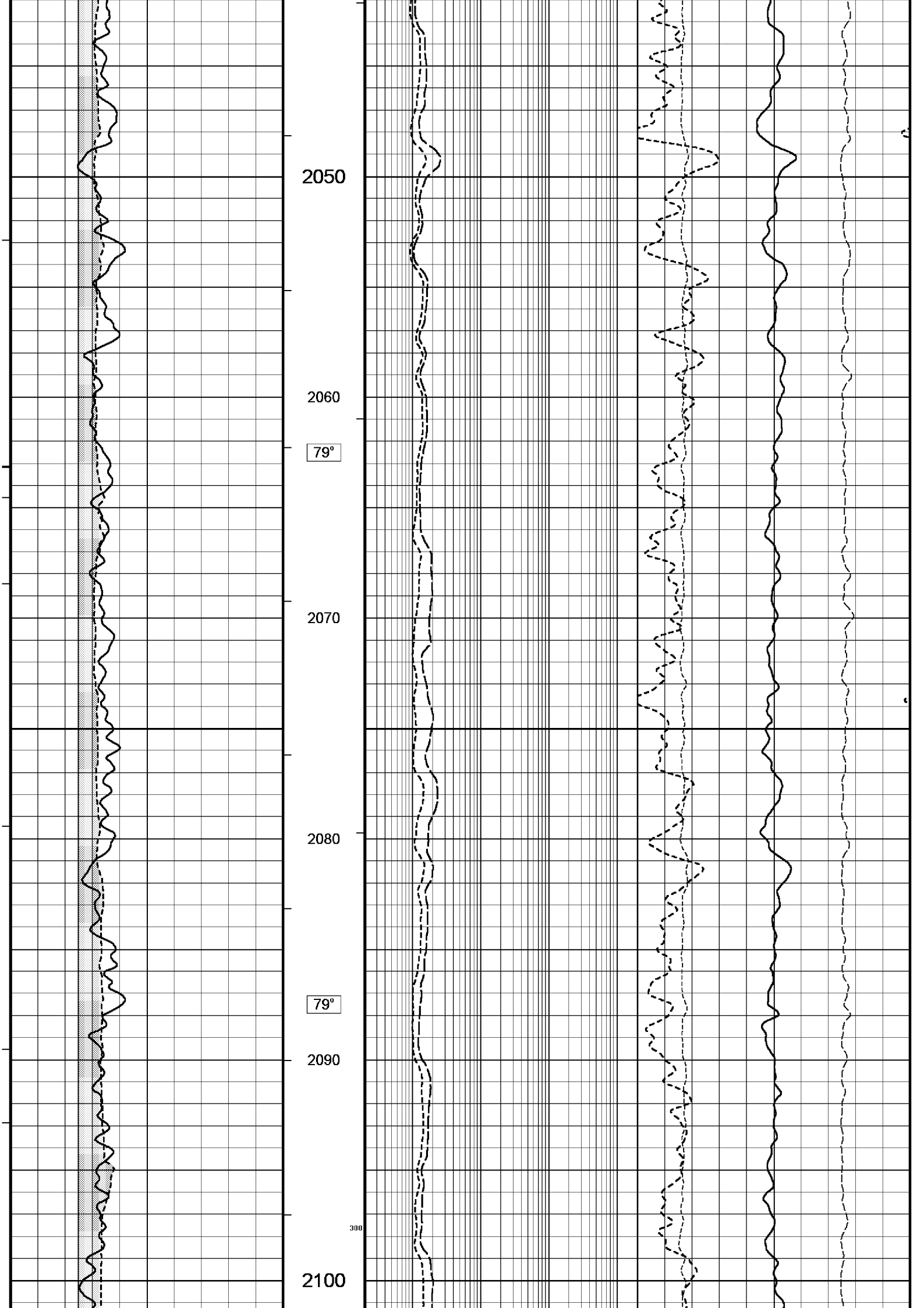


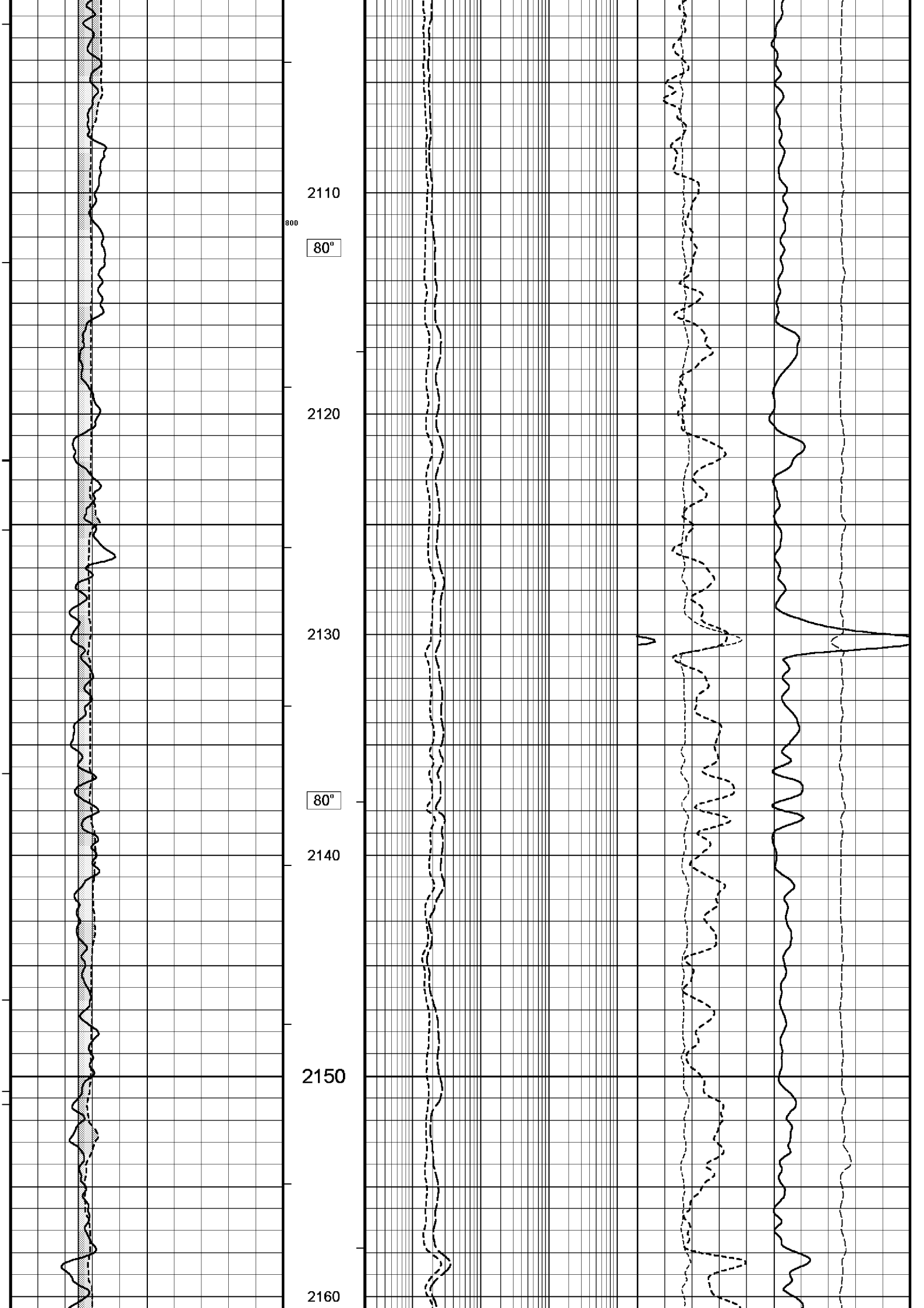


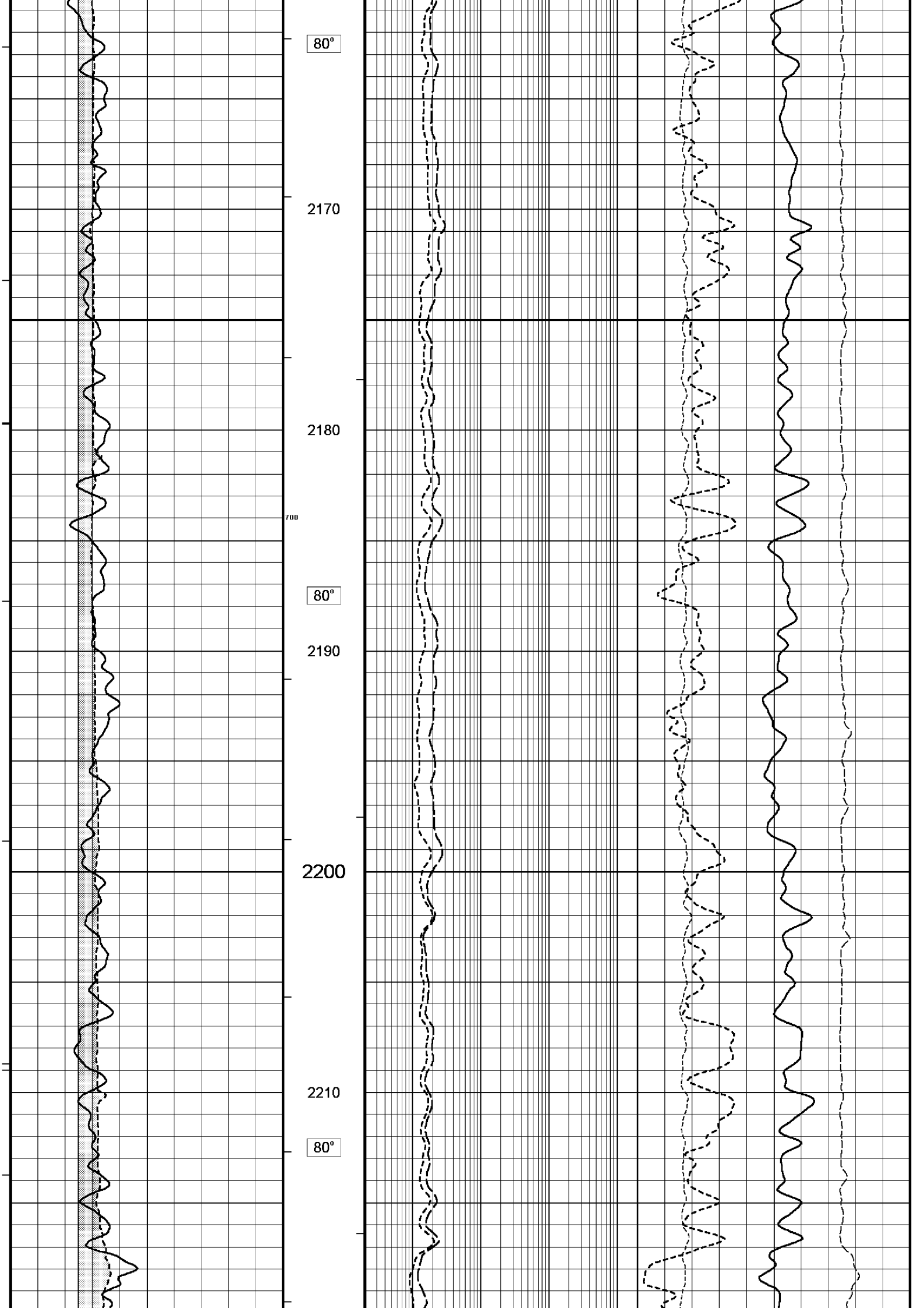


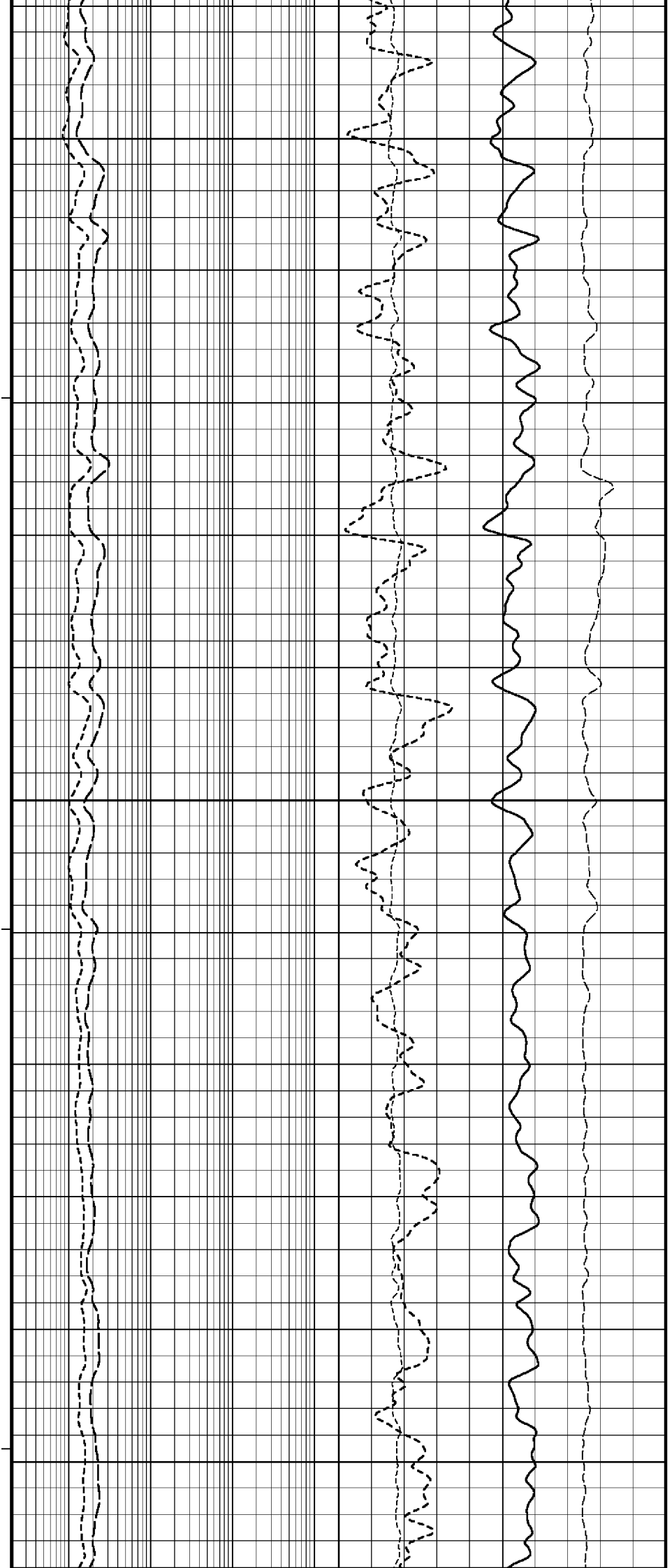
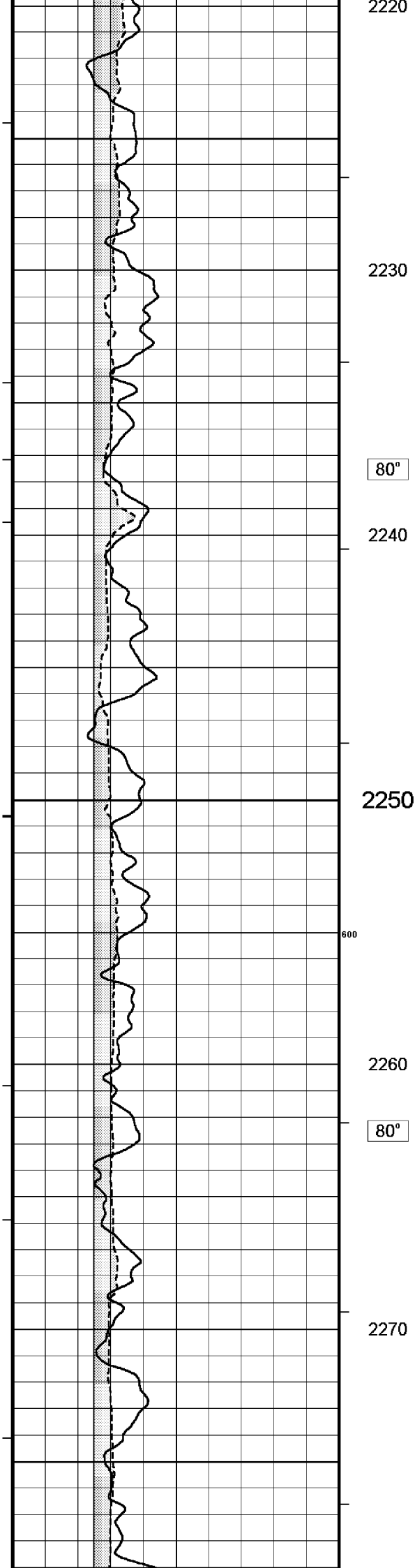


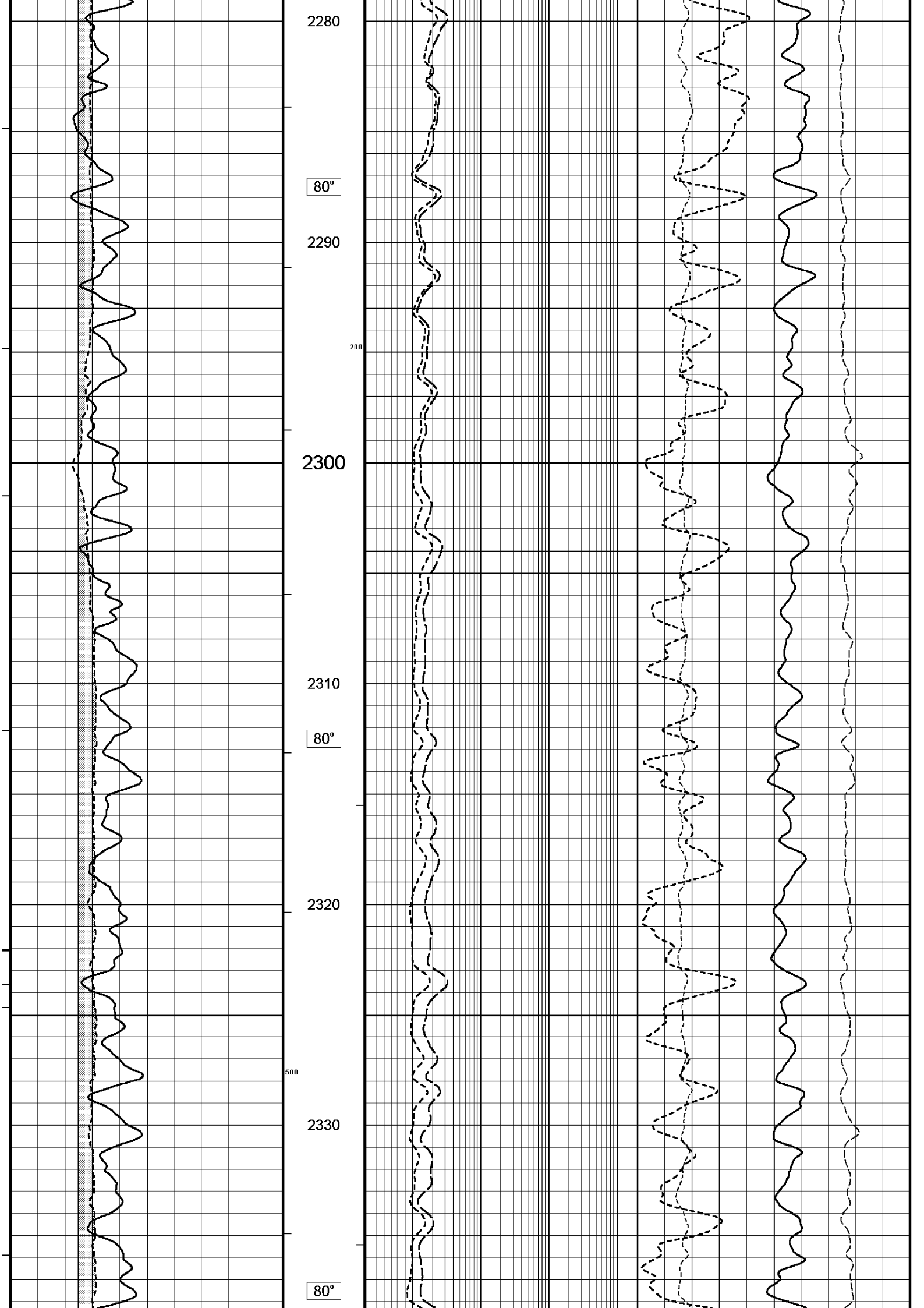


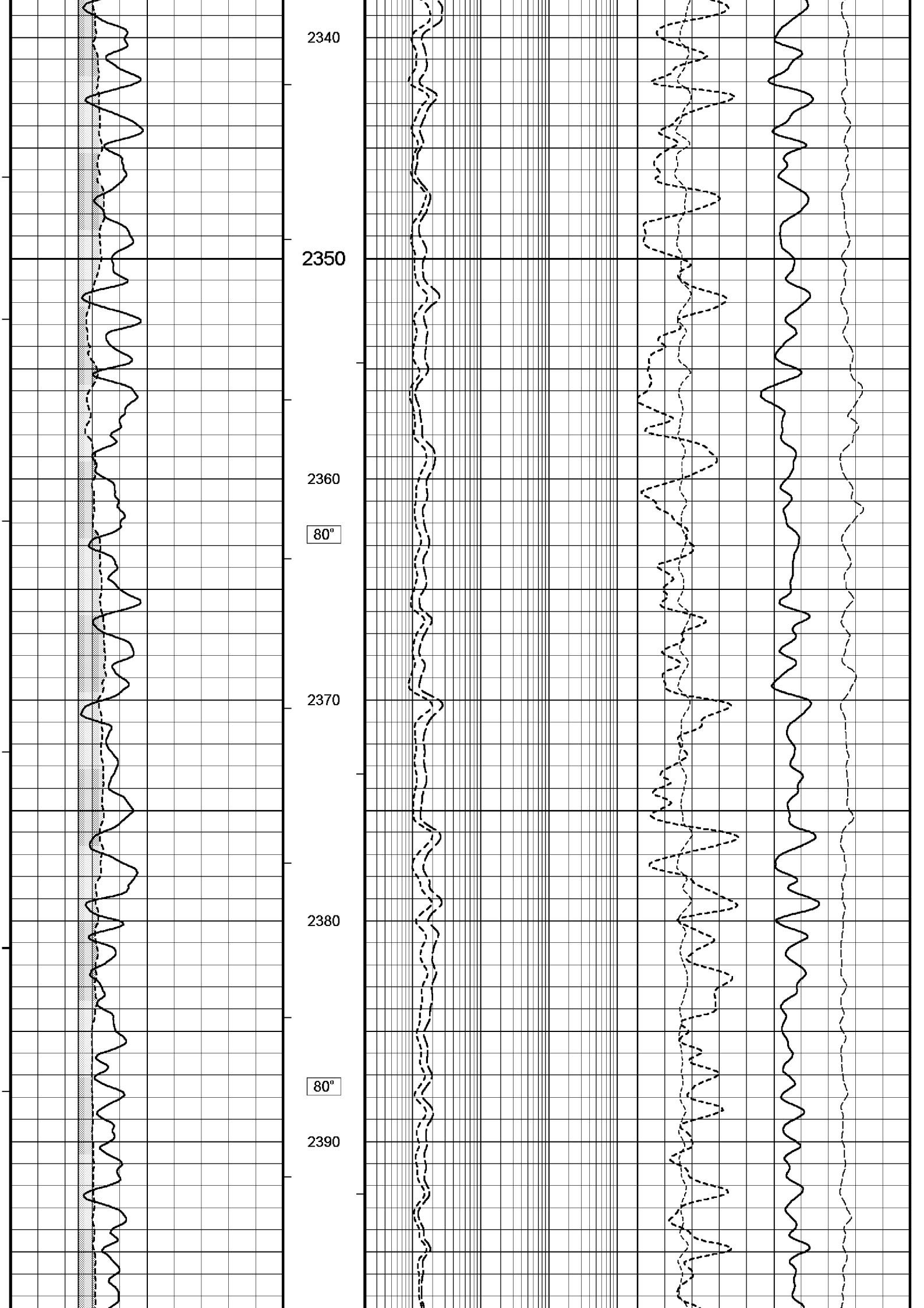


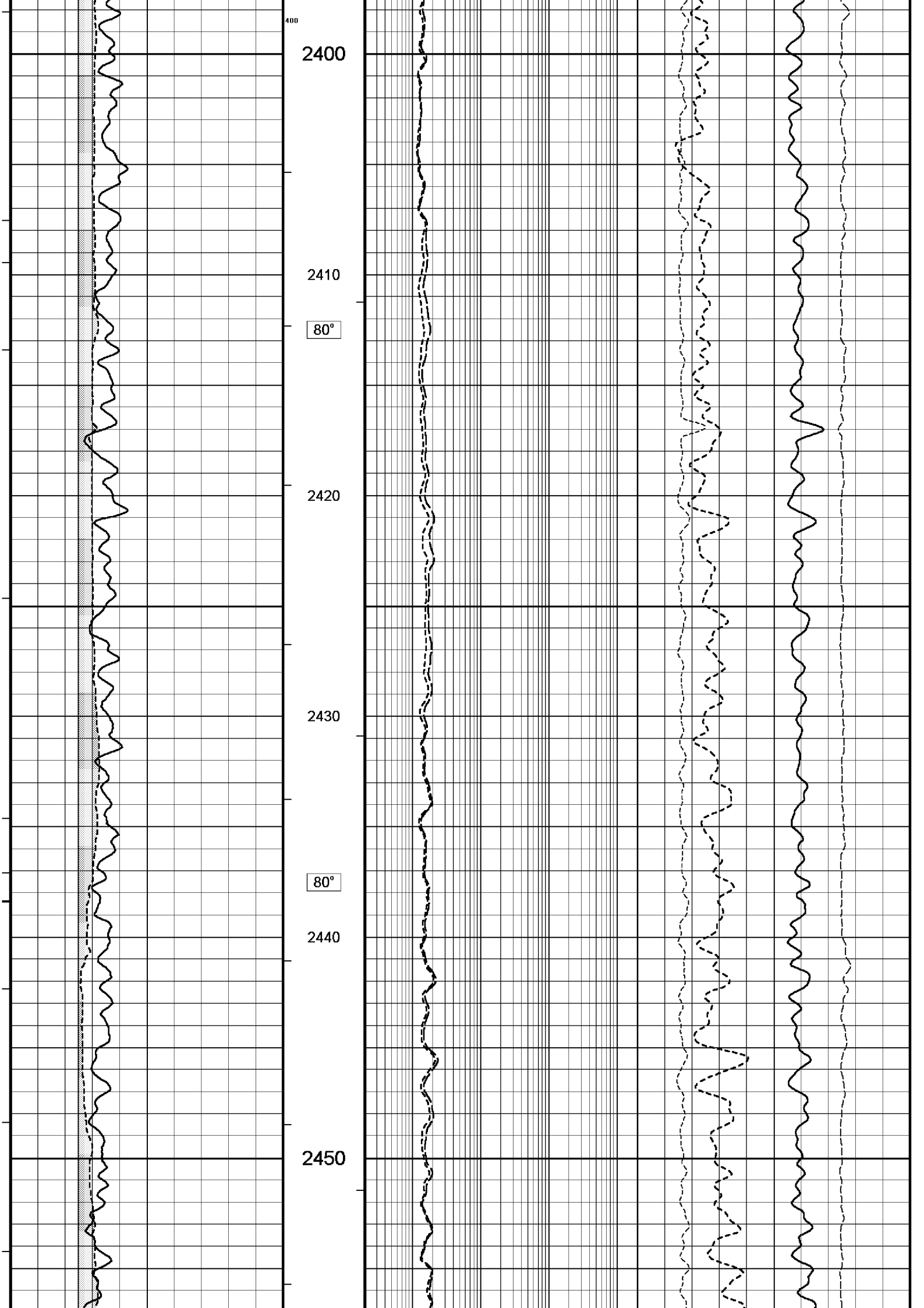


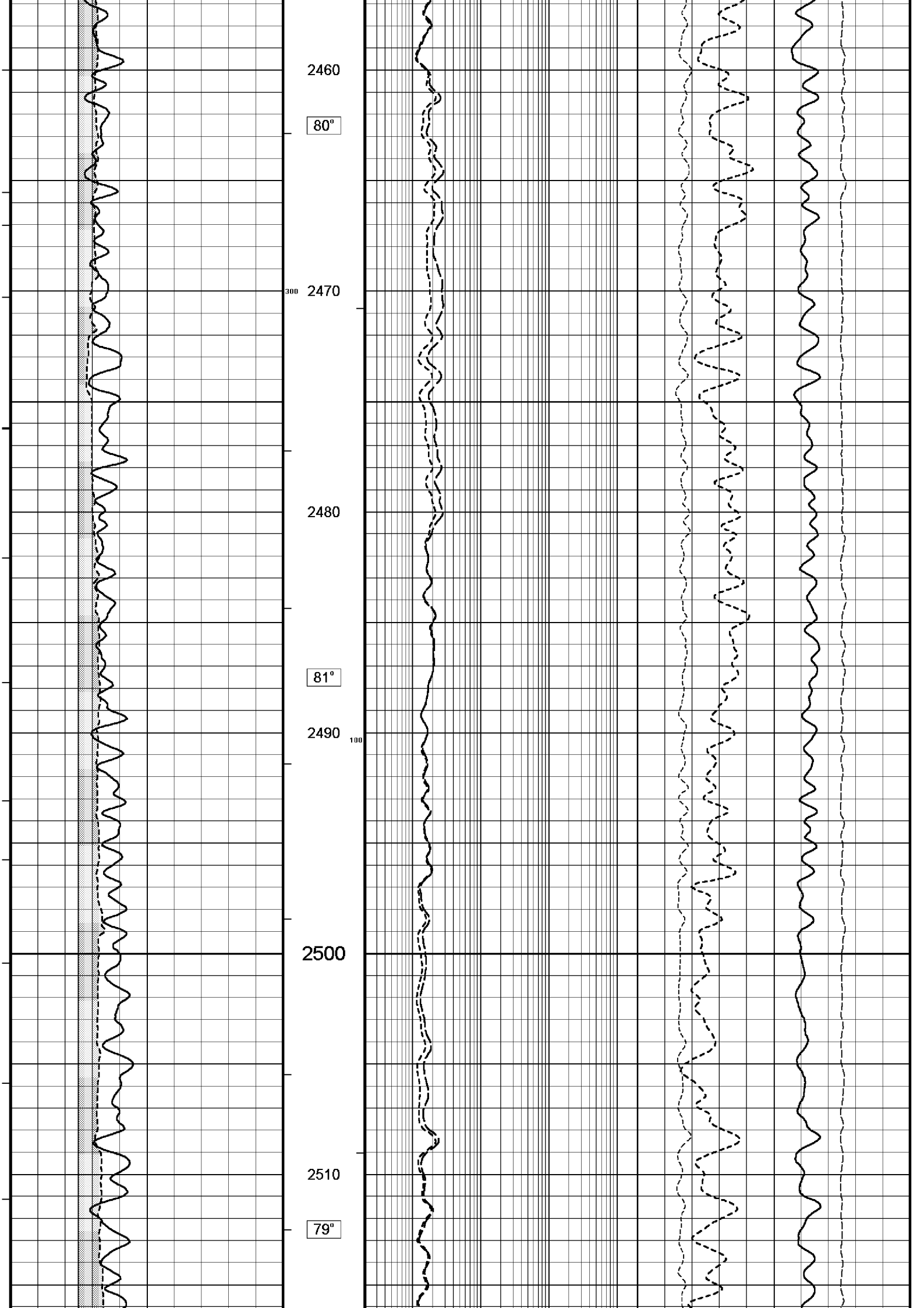


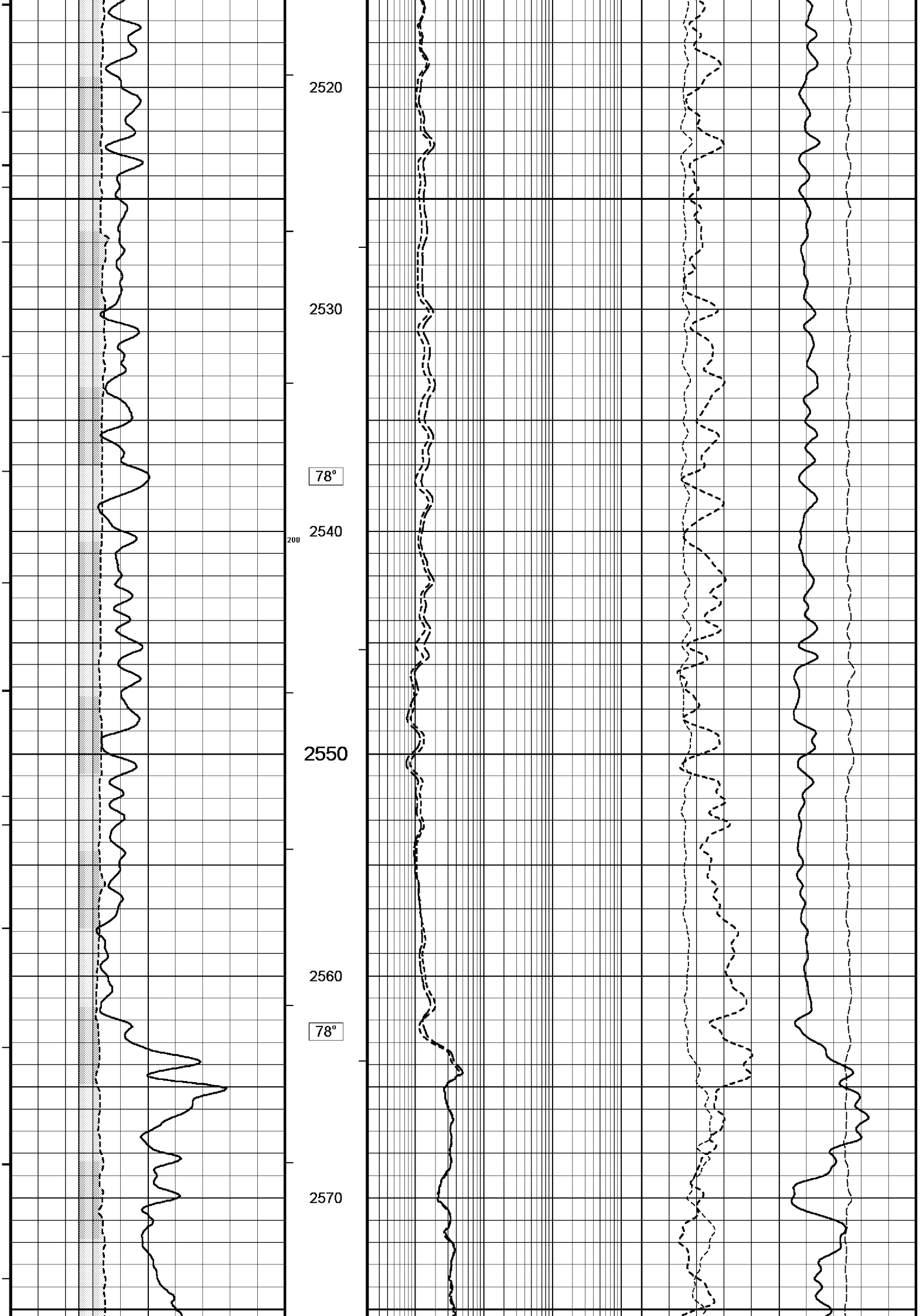


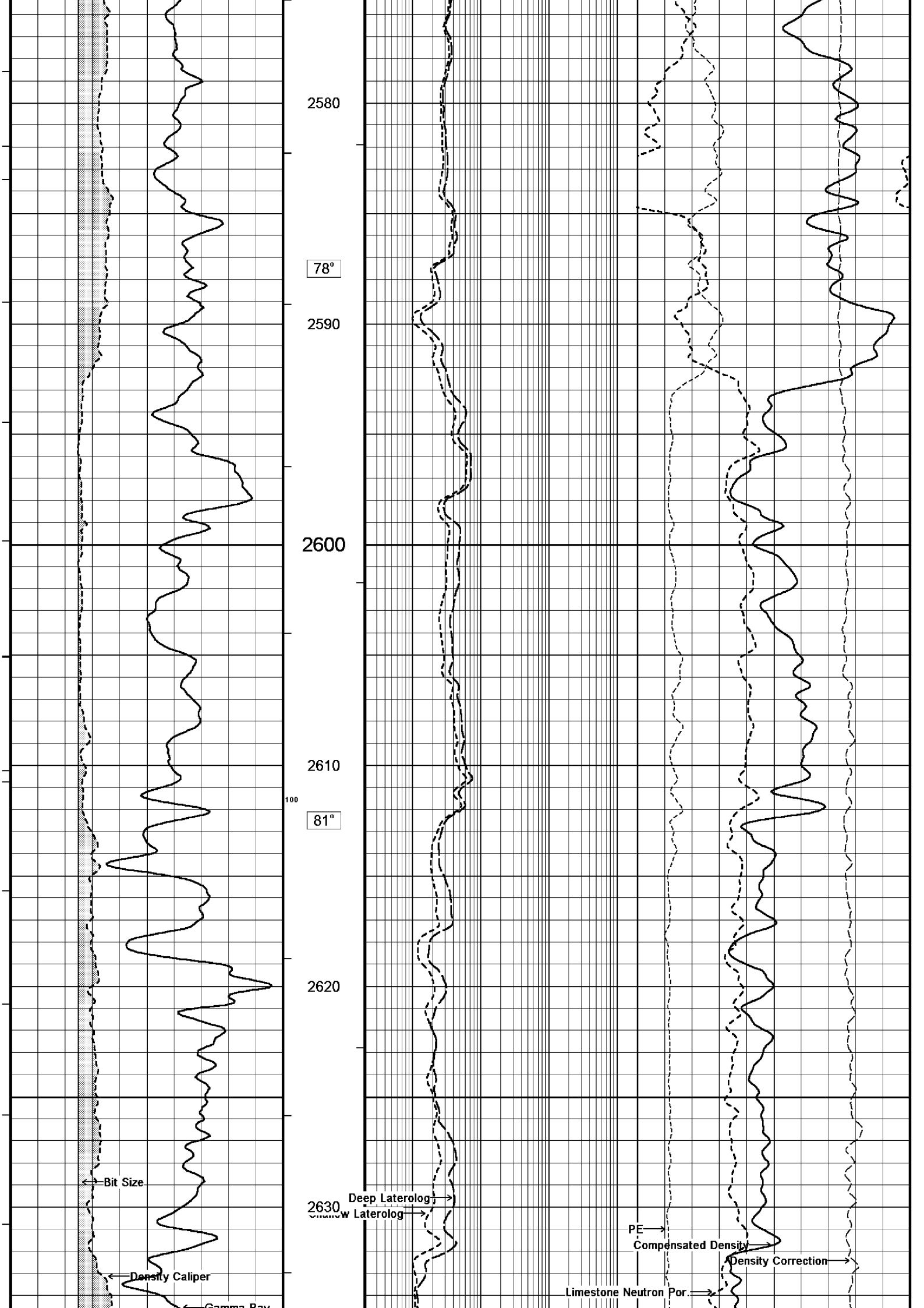


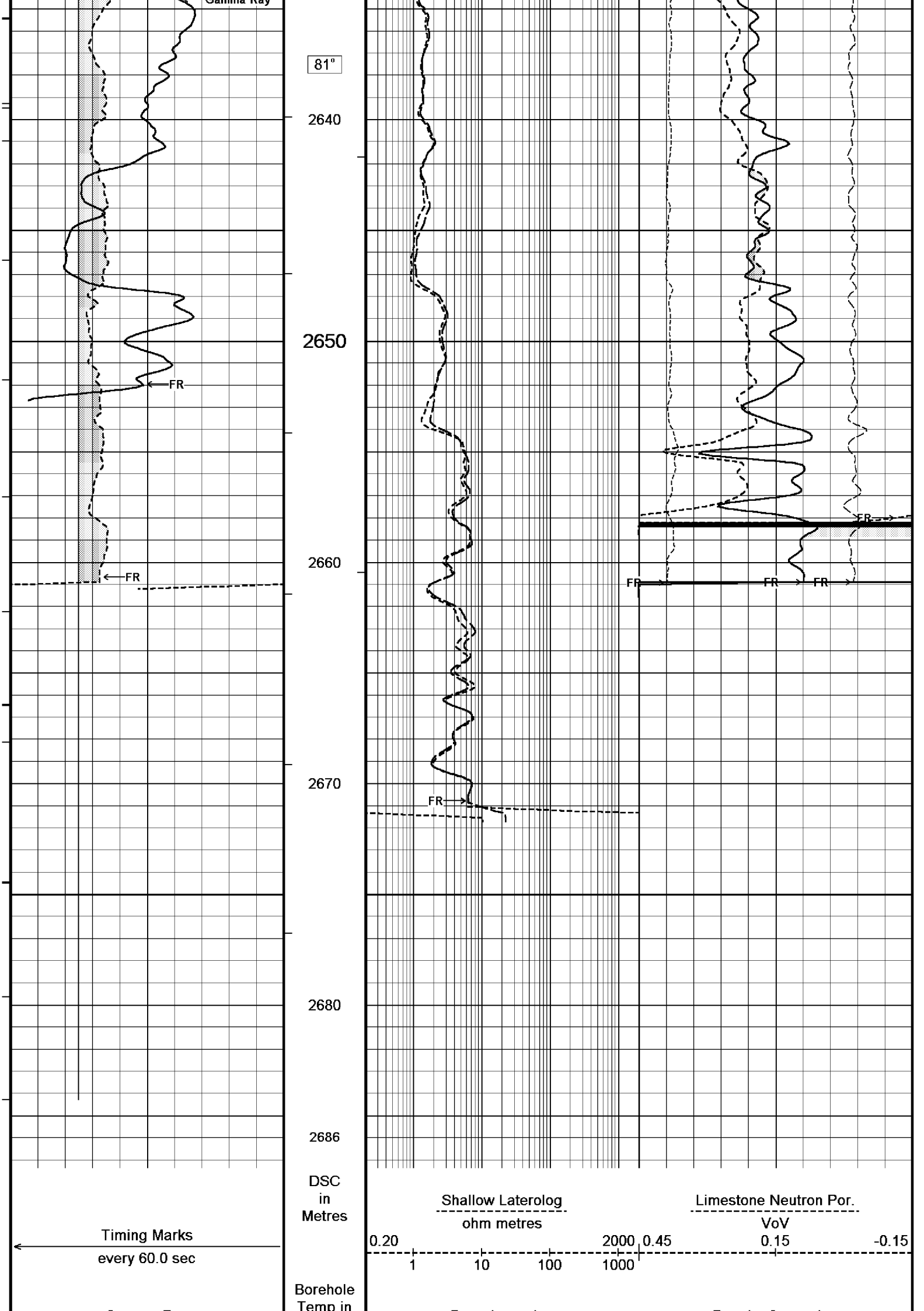


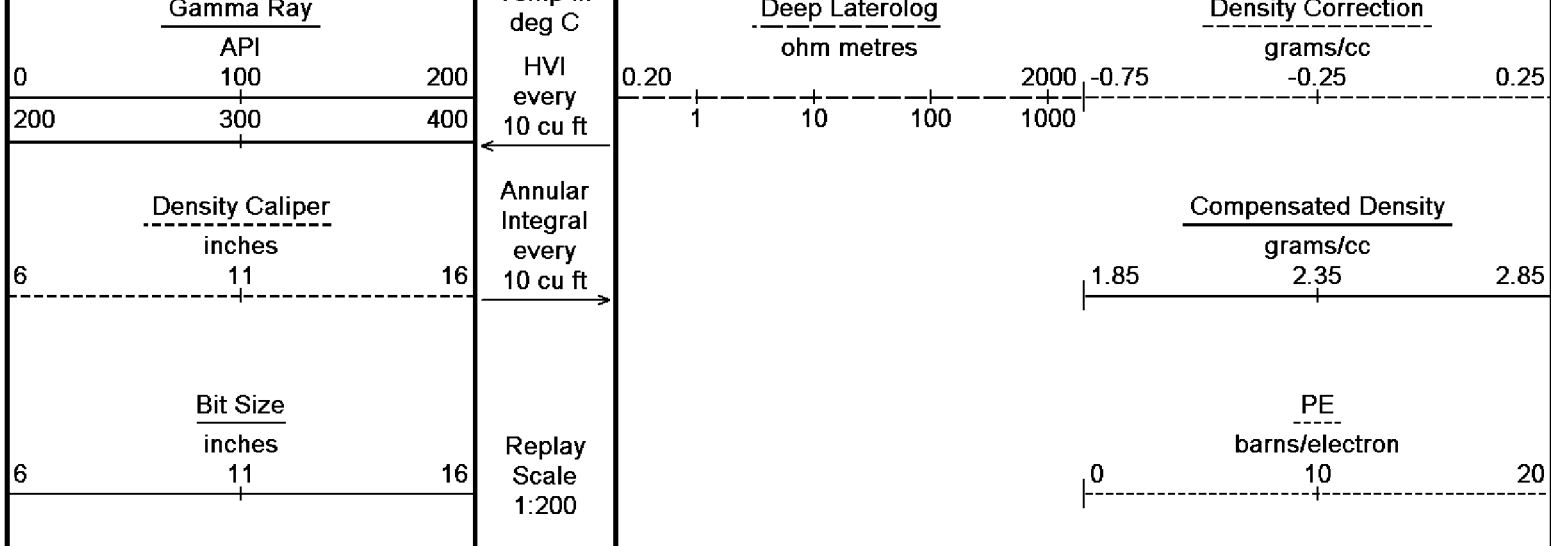












Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 10-JUN-2006 11:36

Filename: C:\logs\WKF_W19A\FIELD DATA\WKF_W19A_MAIN_LOG.dta
 Recorded on 10-JUN-2006 04:30

System Configuration Dates: Logged 17-JUN-2004: Processed 17-JUN-2004: Plotted 17-JUN-2004:

↑
 MAIN LOG 1:200
 ↑

BEFORE SURVEY CALIBRATION				
C:\logs\WKF_W19A\FIELD DATA\WKF_W19A_MAIN_LOG.dta				
General Constants All 000				
General Parameters				
Mud Resistivity	0.122	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	Bit Size			
Annular Volume Diameter	7.000	inches		
Caliper for Differential Caliper	None			
Rwa Parameters				
Porosity used	Base Density Porosity			
Resistivity used	Deep Induction			
RWA Constant A	0.610			
RWA Constant M	2.150			
High Resolution Temperature Calibration MCG 142				
	Measured	Calibrated(Deg C)	Field Calibration on 22-MAY-2006,23:42	
Lower	0.00	0.00		
Upper	100.00	100.00		
High Resolution Temperature Constants MCG 142				
Pre-filter Length	11			
Gamma Calibration MCG 142				
	Measured	Calibrated (API)	Field Calibration on 7-JUN-2006 23:40	
Background	12	8		
Calibrator (Gross)	1393	917		
Calibrator (Net)	1381	909		
Gamma Constants MCG 142				
Gamma Calibrator Number	60			
Mud Density	1.13	gm/cc		
Caliper Source for Processing	Density Caliper			
Tool Position	Eccentred			
Concentration of KCl	0.00	kppm		
Neutron Calibration MDN 085				
			Base Calibration on 1-JUN-2006 14:00	
			Field Check on 8-JUN-2006 01:26	

Base Calibration		Measured		Calibrated (cps)	
		Near	Far	Near	Far
		3121	97	3714	110
Ratio		32.033		33.764	
Field Calibrator at Base				Calibrated (cps)	
				1457	2120
Ratio				0.687	
Field Check				Calibrated (cps)	
				1449	2113
Ratio				0.686	

Neutron Constants MDN 085				
Neutron Source Id		NSN-E-739		
Neutron Jig Number		NEC-E-052		
Epithermal Neutron		No		
Caliper Source for Processing		Bit Size		
Stand-off		0.00	inches	
Mud Density		1.13	gm/cc	
Limestone Sigma		7.10	cu	
Sandstone Sigma		4.26	cu	
Dolomite Sigma		4.70	cu	
Formation Pressure Source		None		
Formation Pressure		N/A	kpsi	
Temperature Source	MCG External Temperature			
Temperature	N/A		degrees C	
Mud Salinity	0.00		kppm	
Formation Fluid Salinity Source		None		
Formation Fluid Salinity		N/A	kppm	
Barite Mud Correction		Not Applied		

Caliper Calibration MPD 083			Base Calibration on 31-MAY-2006 16:59 Field Calibration on 8-JUN-2006 01:20		
Base Calibration					
Reading No		Measured		Calibrator Size (in)	
1		14224		4.01	
2		22476		5.99	
3		30896		7.98	
4		39296		9.94	
5		48692		12.01	
6		N/A		N/A	
Field Calibration					
		Measured Caliper (in)		Actual Caliper (in)	
		7.92		7.98	

Photo Density Calibration MPD 083				Base Calibration on 31-MAY-2006 17:21	
				Field Check on 8-JUN-2006 01:18	
Density Calibration					
Base Calibration		Measured		Calibrated (sdu)	
		Near	Far	Near	Far
	Reference 1	55199	18450	53111	19310
	Reference 2	25968	2457	24951	2530
Field Check at Base					
		943.5	1085.5		
Field Check					
		940.2	1083.2		
PE Calibration					
Base Calibration		Measured		Calibrated	
	WS	WH	Ratio	Ratio	
	Background	178	808		
	Reference 1	17485	55005	0.319	0.320
	Reference 2	6890	25822	0.268	0.273
Field Check at Base					
	178.4	807.6			
Field Check					
	176.2	805.7			

Density Constants MPD 083

Density Source Id	NSDL 242	
Nylon Calibrator Number	DNC-D-536	
Aluminium/Fe Calibrator Number	DAC-D-536	
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.13	gm/cc
Mud Density Z/A Correction	1.11	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc

Matrix Density (gm/cc)	Depth (m)
2.71	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

Laterolog Calibration MLE 031

Base Calibration on 31-MAY-2006,16:09
Field Check on 7-JUN-2006,23:41

Base Calibration

Channel	Resistor 1	Measured		Calibrated (ohm-m)	
		Resistor 2	Resistor 1	Resistor 2	
Shallow	9.8	976.1	13.2	1321.0	
Deep	9.8	976.4	7.5	755.0	
Groningen	9.8	976.6	8.5	854.0	

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Shallow	48.6	48.6
Deep	27.8	27.8
Groningen	251.6	251.6

Laterolog Constants MLE 031

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	None	

DOWNHOLE EQUIPMENT

C:\logs\WKF_W19A\FIELD DATA\WKF_W19A_MAIN_LOG.dta

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

Compact Knuckle Joint
SKJ 100 Length: 0.66 m Weight: 24.3 lb

Compact Battery Sub.
MBS 99 Length: 4.41 m Weight: 44.1 lb

Compact Inline Standoff B
MIS 73 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 138 Length: 0.65 m Weight: 15.4 lb

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

Compact Inline Standoff B
MIS 136 Length: 0.65 m Weight: 15.4 lb

MBE21 - THIRD BRIDLE
MLK 111 Length: 3.76 m Weight: 30.9 lb

Compact Inline Standoff B
MIS 133 Length: 0.65 m Weight: 15.4 lb

Compact Gamma
MCG 142 Length: 2.65 m Weight: 63.9 lb

Compact Memory Sub A.C
MMS 38 Length: 0.95 m Weight: 30.9 lb

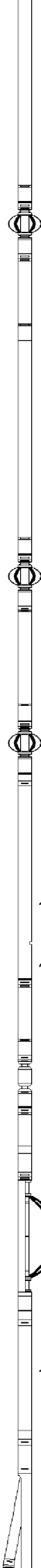
Compact Knuckle Joint
SKJ 45 Length: 0.66 m Weight: 24.3 lb

Compact Swivel Head Adaptor F
SHA 64 Length: 0.83 m Weight: 26.5 lb

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



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

26.17 m NPRL - Limestone Neutron Por.

23.48 m AVOL - Annular Volume
23.48 m HVOL - Hole Volume
23.48 m CLDC - Density Caliper
23.27 m DEN - Compensated Density

Compact Inline Bowspring A
MIS 24 Length: 1.74 m Weight: 33.1 lb

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

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

Compact Inline Standoff B
MIS 72 Length: 0.65 m Weight: 15.4 lb

Compact Upper Guard Sub.
MUG 30 Length: 2.74 m Weight: 68.3 lb

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

Compact Laterolog Electrode Sub.
MLE 31 Length: 3.76 m Weight: 92.6 lb

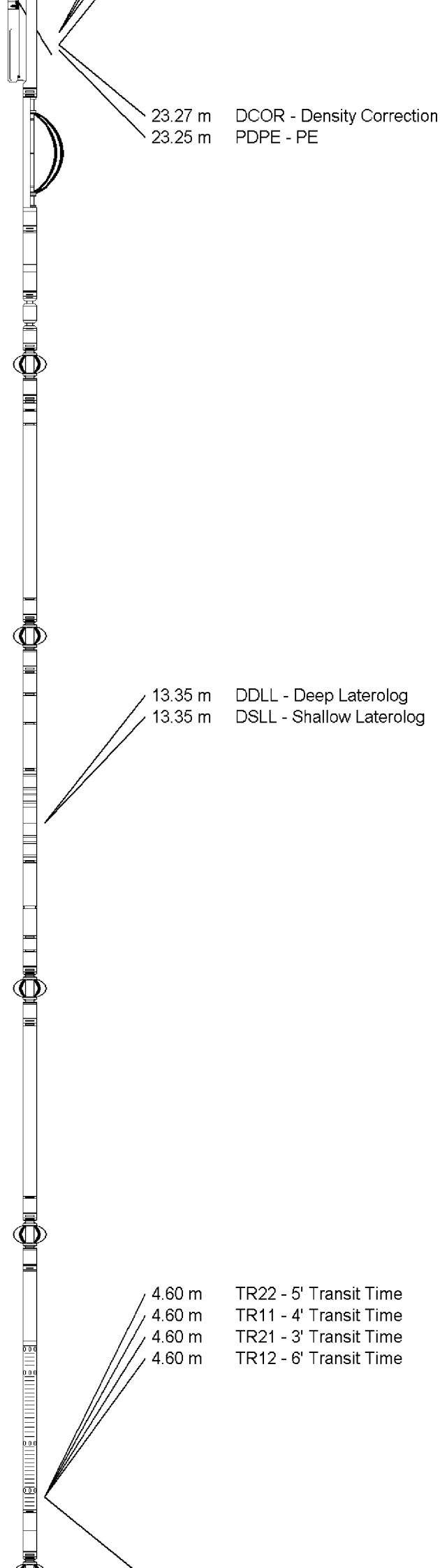
Compact Inline Standoff B
MIS 127 Length: 0.65 m Weight: 15.4 lb

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

Compact Inline Standoff B
MIS 129 Length: 0.65 m Weight: 15.4 lb

Compact Sonic
MSS 66 Length: 3.82 m Weight: 72.8 lb

Compact Inline Standoff B

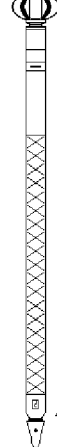


MIS 126 Length: 0.65 m Weight: 15.4 lb

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

Pressure Bung + Hole Finder
HFS 4 Length: 0.40 m Weight: 6.6 lb

Total Length: 54.01 m Weight: 1201.5 lb



4.60 m DT35 - 3-5' Compensated Sonic

Tool Zero (0.44m from bottom)

All measurements relative to tool zero.

COMPANY	ESSO AUSTRALIA PTY.LTD
WELL	WKF W19A
FIELD	KINGFISH GDA94
PROVINCE/COUNTY	BASS STRAIT, VICTORIA
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing	metres	First Reading	2670.65	metres
Elevation Drill Floor 33.43	metres	Depth Driller	2687.00	metres
Elevation Ground Level -76.13	metres	Depth Logger	2684.00	metres



DUAL LATEROLOG - GR
DENSITY - NEUTRON
1:200 MD