



DUAL LATEROLOG - GR
DENSITY - NEUTRON
1:200 MD

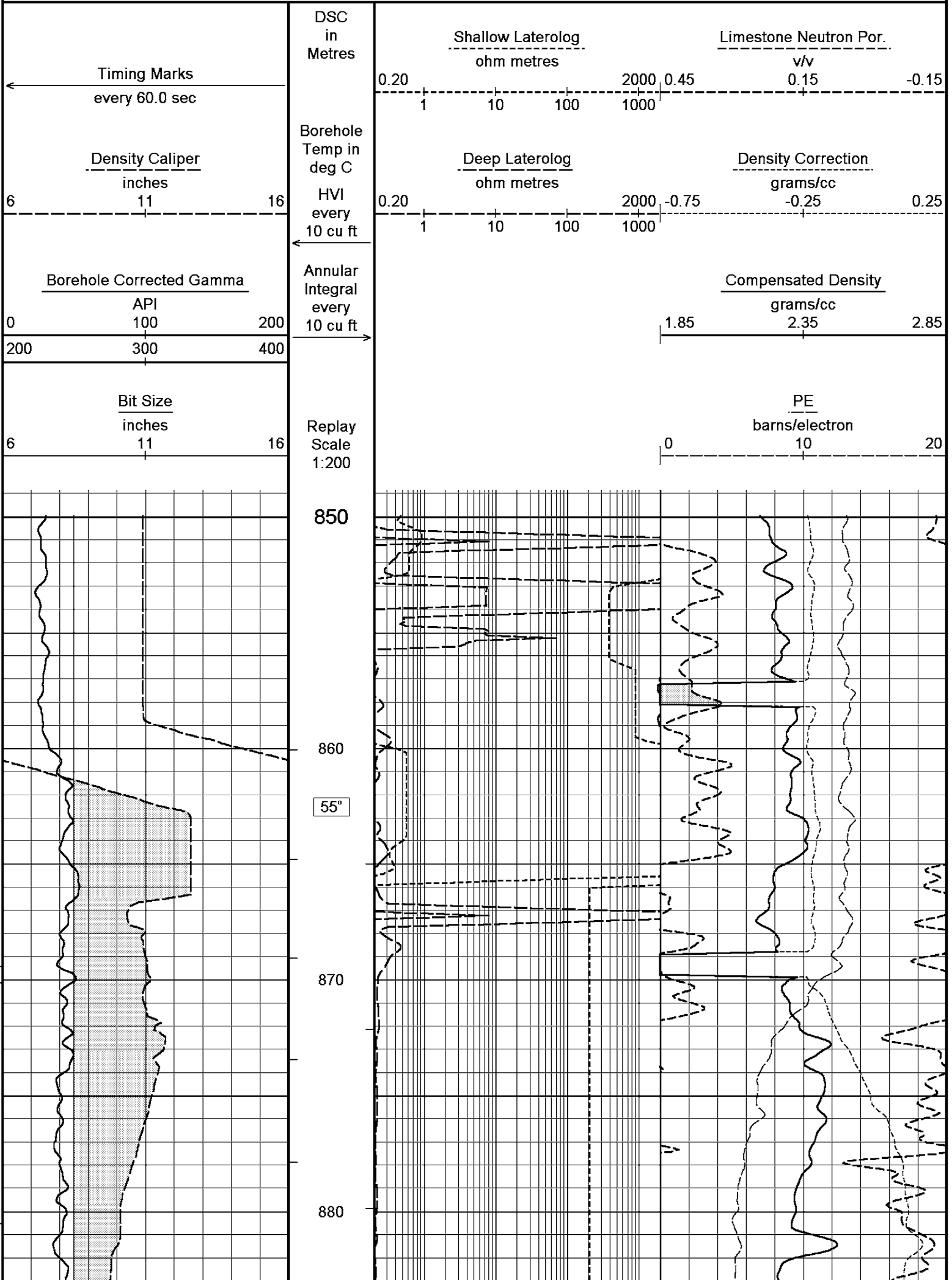
COMPANY	ESSO AUSTRILIA PTY LTD		
WELL	BREAM A5A		
FIELD	BREAM		
PROVINCE/COUNTRY	BASS STRAIT		
COUNTRY/STATE	AUSTRALIA		
LOCATION	S 38 29 58.778, E 147 46 20.334 N 5738461.680 m, E 567345.000 m		
LSD	SEC	TWP	RGE
API Number		Other Services	
Permit Number		COMPENSATED SONIC	
Permanent Datum MSL			Elevation 0.0 metres
Log Measured From RT @ 32.82m			above Permanent Datum
Drilling Measured From RT			Elevations: KB 32.82 metres DF 32.82 metres GL -59.40 metres
Date	16-JUN-2005		
Run Number	ONE		
Depth Driller	2810.00	metres	
Depth Logger	2803.90	metres	
First Reading	2790.10	metres	
Last Reading	895.00	metres	
Casing Driller	895.50	metres	
Casing Logger	895.00	metres	
Bit Size	8.50	inches	
Hole Fluid Type	KCI/POLY/GYL		
Density / Viscosity	10.10 lb/USg	28.00 cP	
PH / Fluid Loss	9.10	2.80 ml/30Min	
Sample Source	FLOWLINE		
Rm @ Measured Temp	0.115 @ 25.0	ohm-m	
Rmf @ Measured Temp	0.089 @ 25.0	ohm-m	
Rmc @ Measured Temp	0.181 @ 25.0	ohm-m	
Source Rmf / Rmc	PRESS	PRESS	
Rm @ BHT	0.052 @ 83.0	ohm-m	
Time Since Circulation	27 HOURS		
Max Recorded Temp	83.00	deg C	
Equipment Name	CWS/CML		
Equipment / Base	1	SALE	
Recorded By	R. TENCH, B. MOSS		
Witnessed By	TREVOR LOBO		
CIRC STOPPED	16:30 15-Jun		

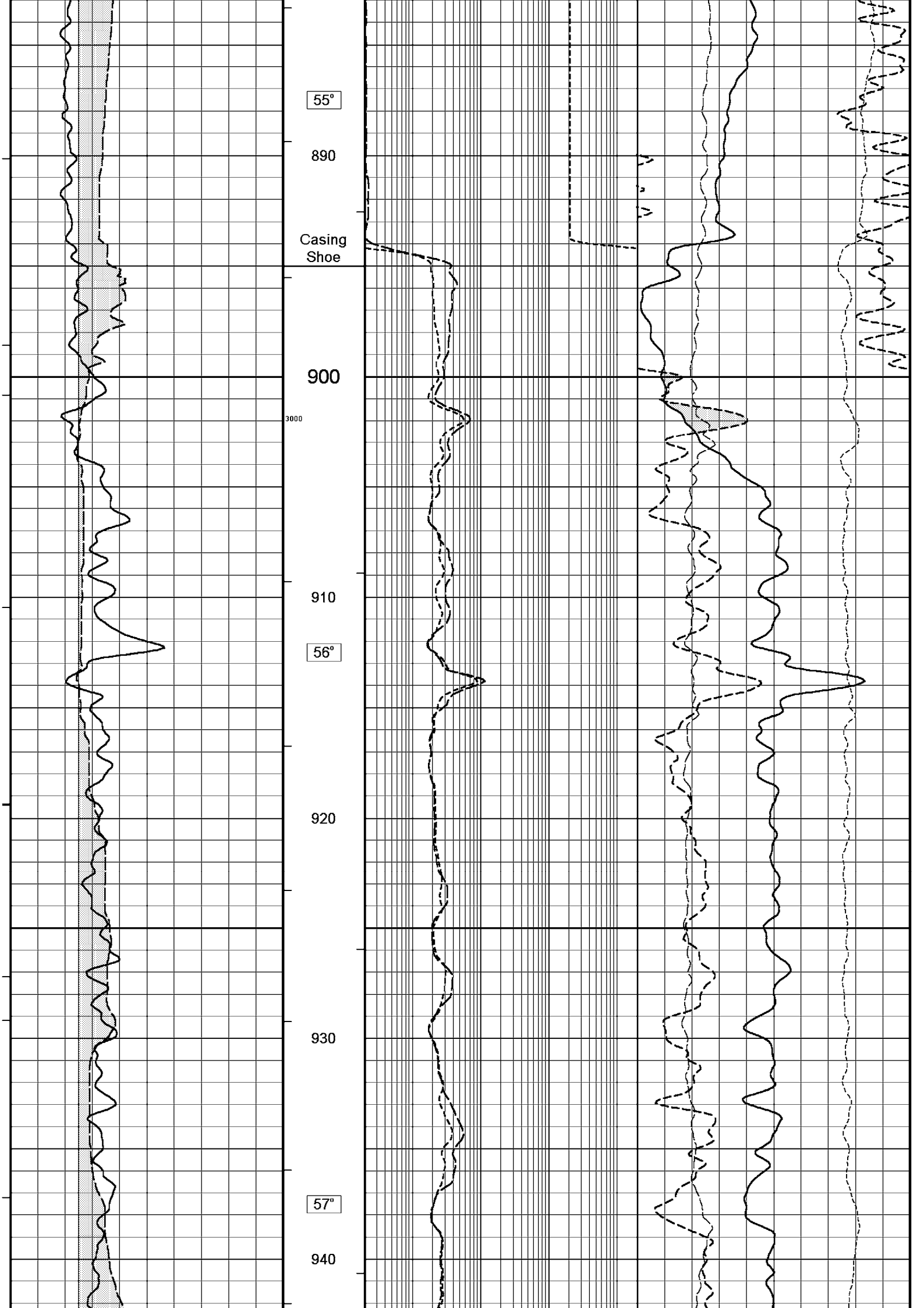
BOREHOLE RECORD		
Bit Size inches	Depth From metres	Depth To metres
8.500	895.00	2810.00

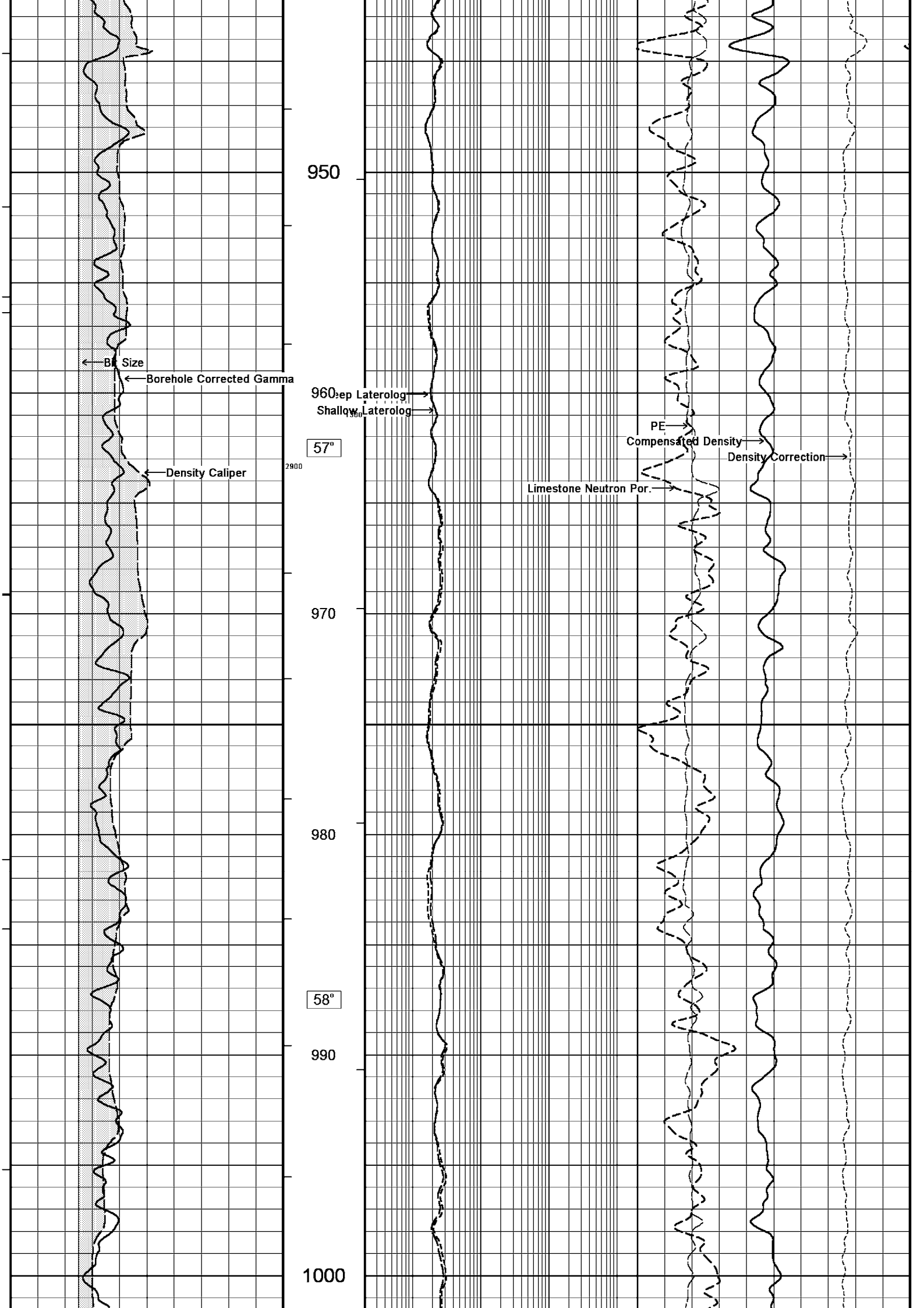
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	13.375	0.00	895.00	54.50

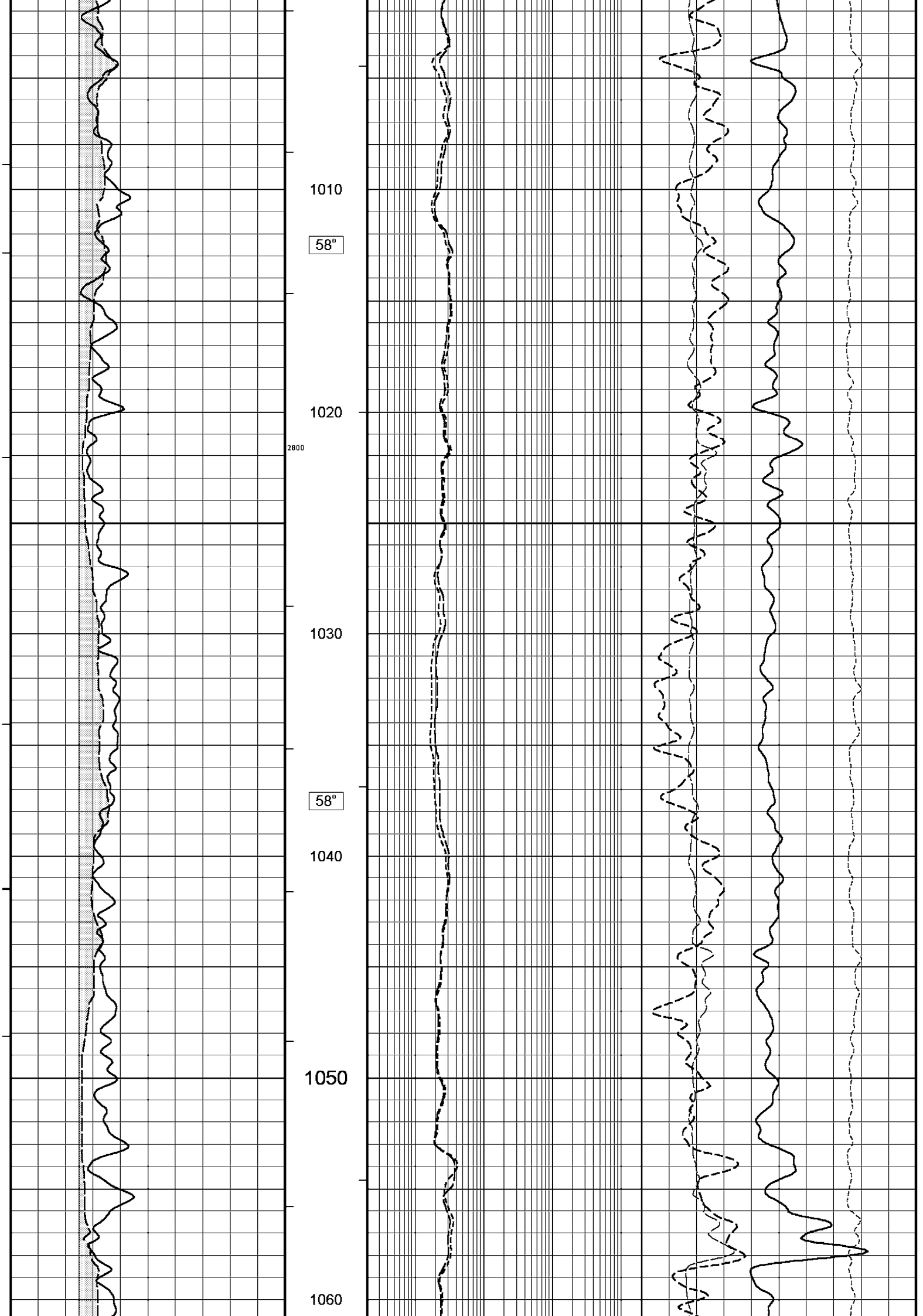
REMARKS
RIG: NABORS 453
5" SHUTTLE/MEMORY COMPACT OPERATION. CREW: R TENCH , B MOSS , B GOODWIN, K LUCIEER.
ALL LOGS DEPTH CORRELATED TO ANADRILL GAMMA LOG.
DURING TRIP IN, DRILL PIPE BRIDGED AT 2071m, REQUIRED 30RPM AND 10BLS FLOW TO REACH TD
MAX. TEMPERATURE: 83 DEG C AT 2763m MD MAX. INCLINATION: 58.40 DEG AT 2810.0m MD MAX. DOGLEG SERVERITY: 6.21 DEG/30m AT 1160.6m MD DEPLOYMENT ANGLE: 58 DEG
HVOL: 3000 FT^3 AVOL: 1330 FT^3

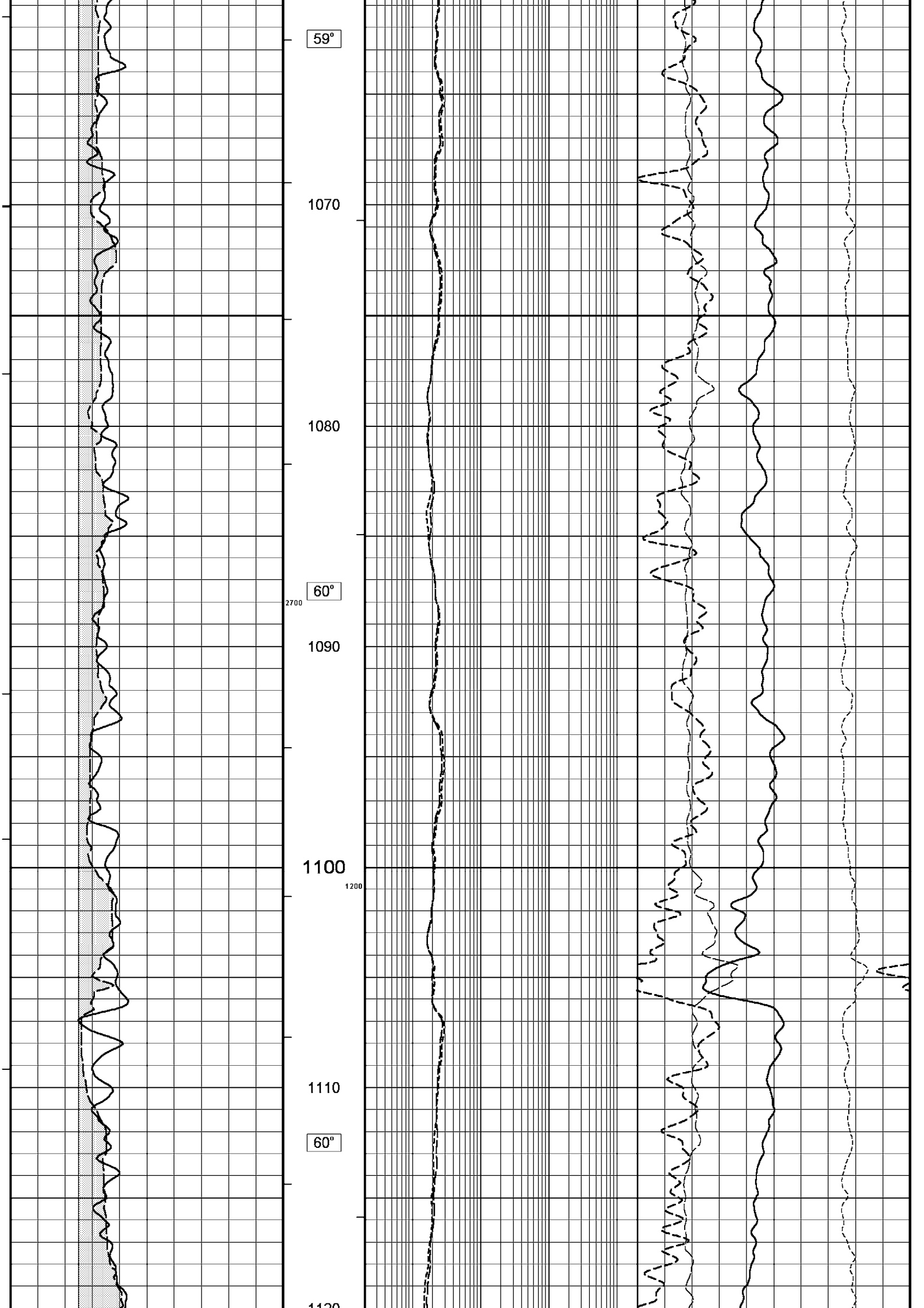
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

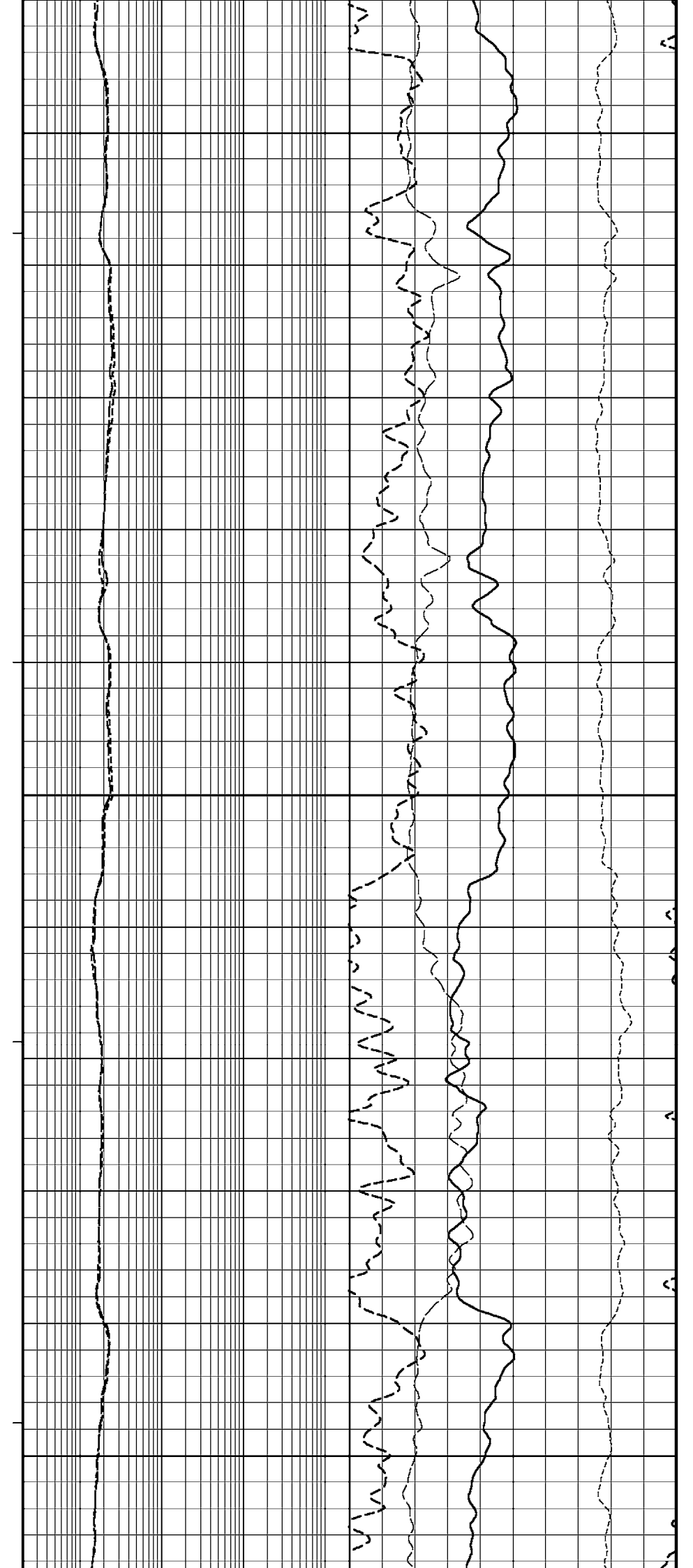
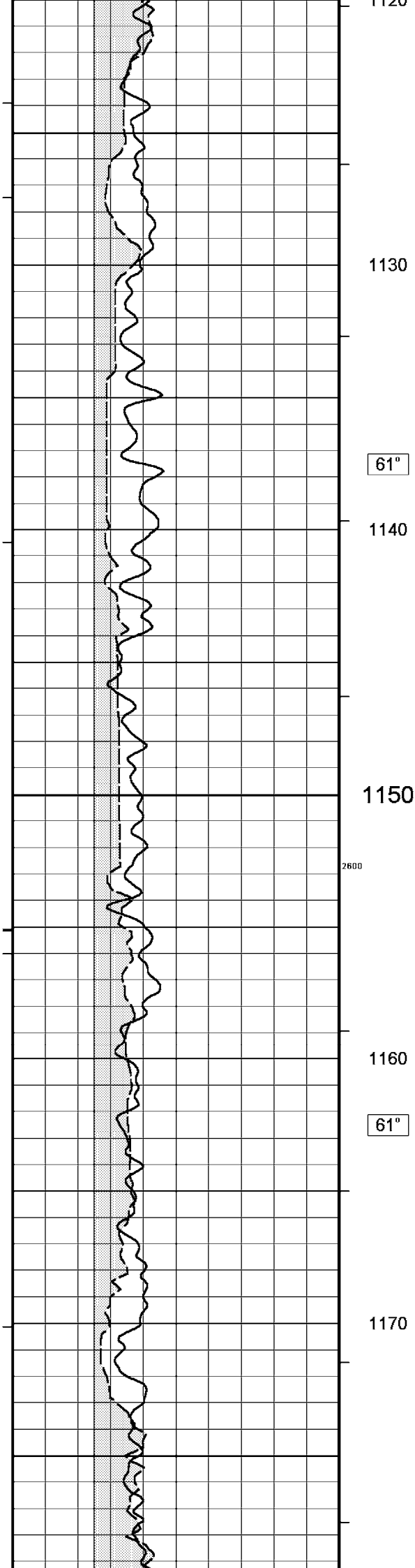


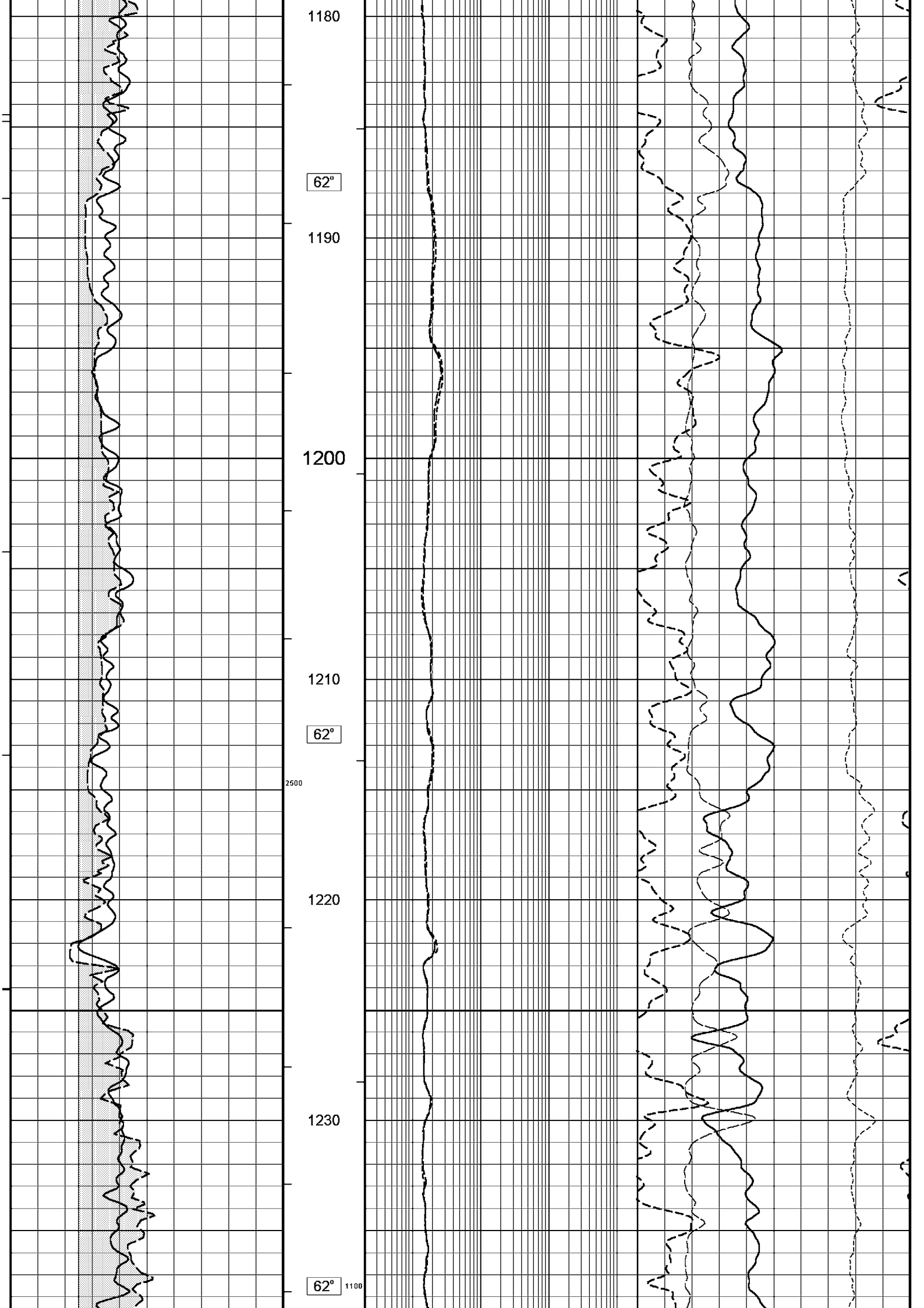


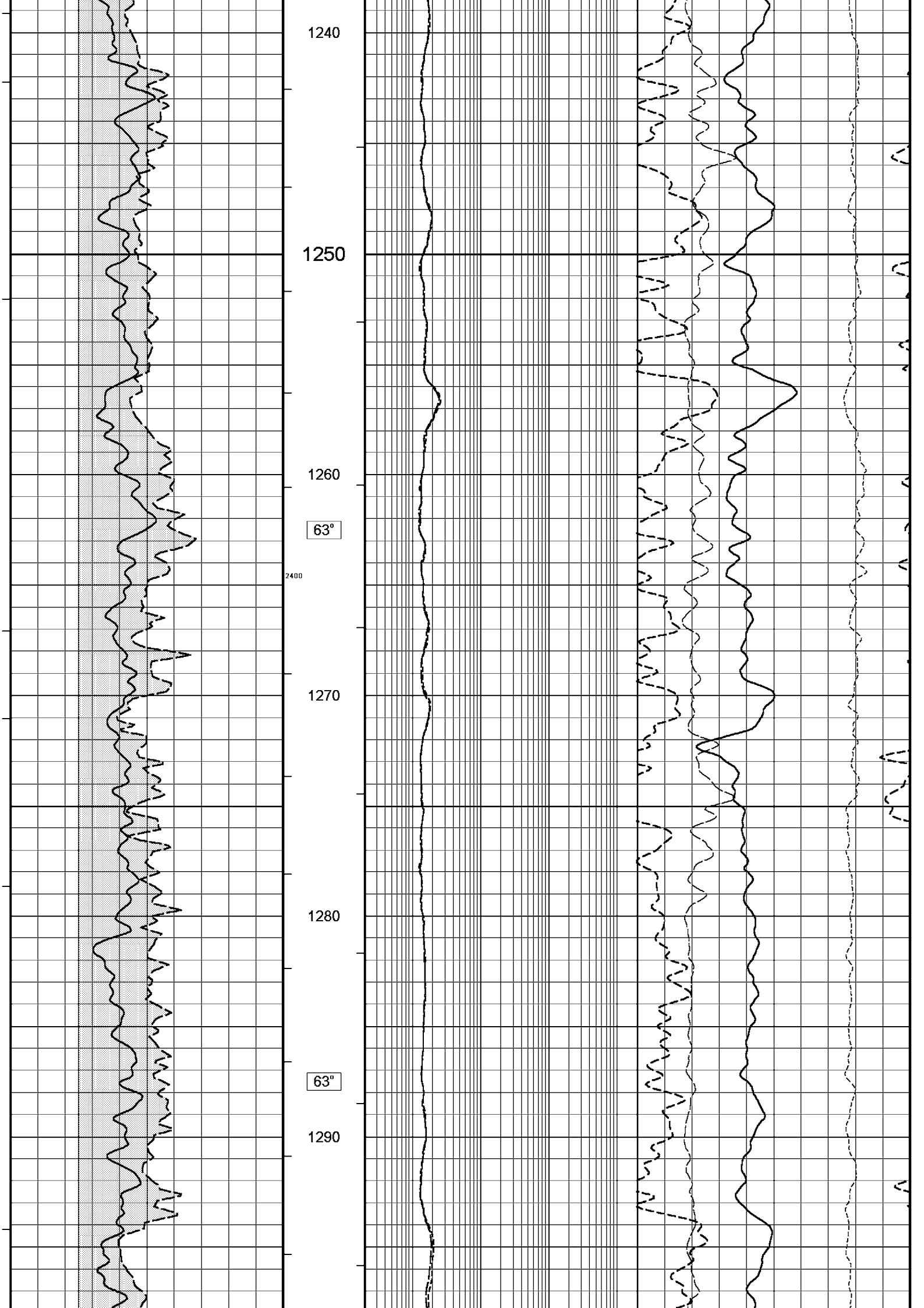


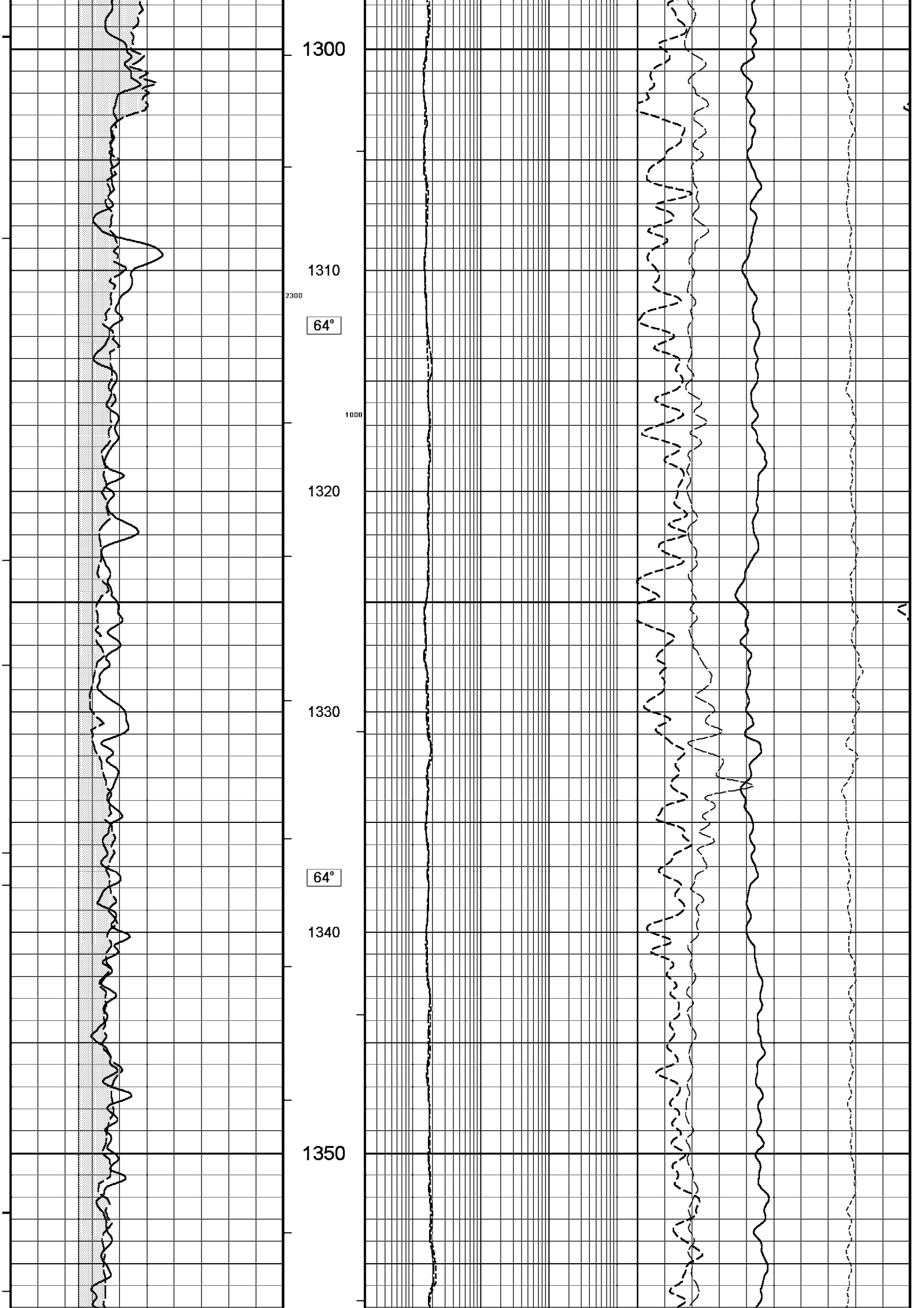


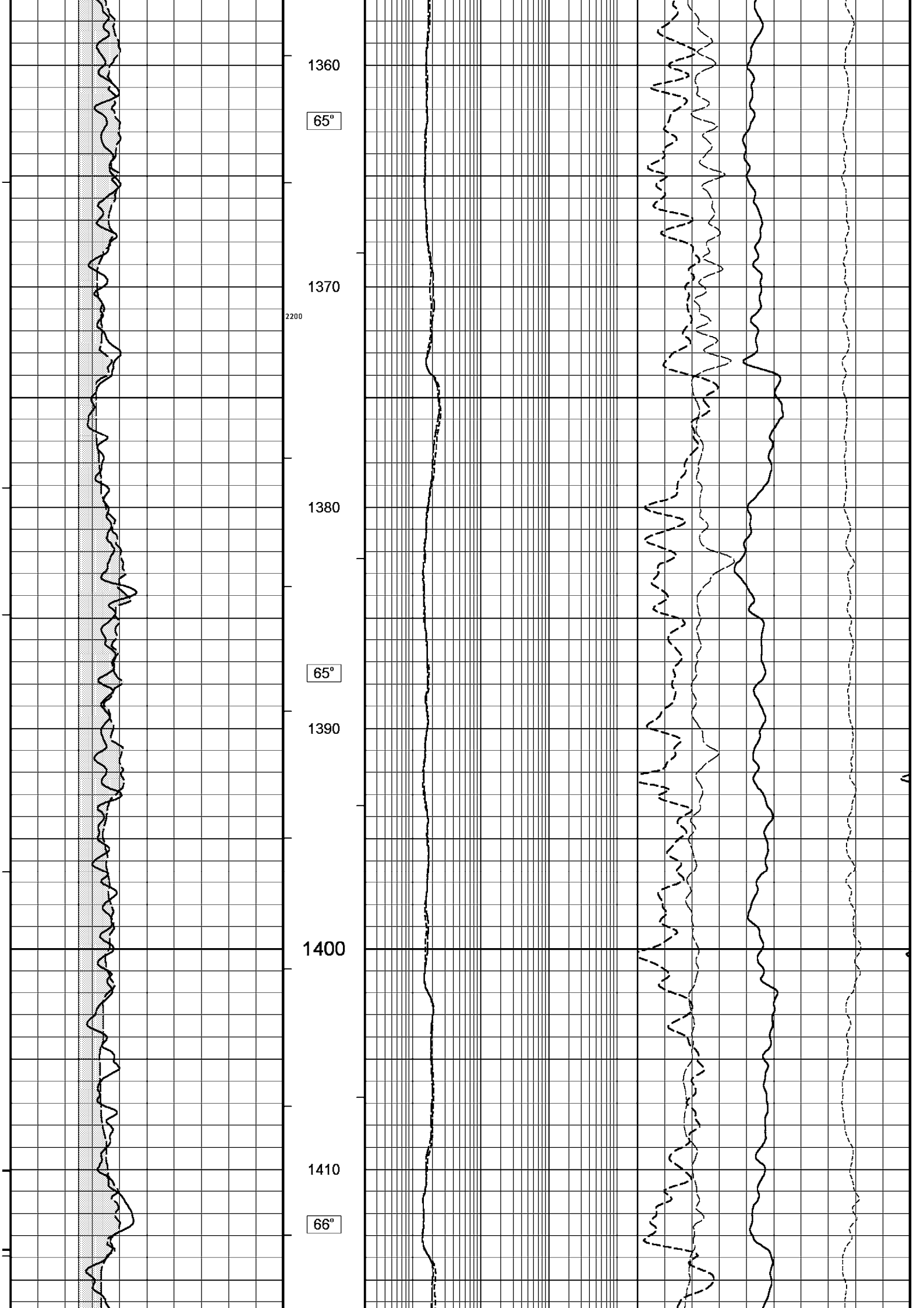


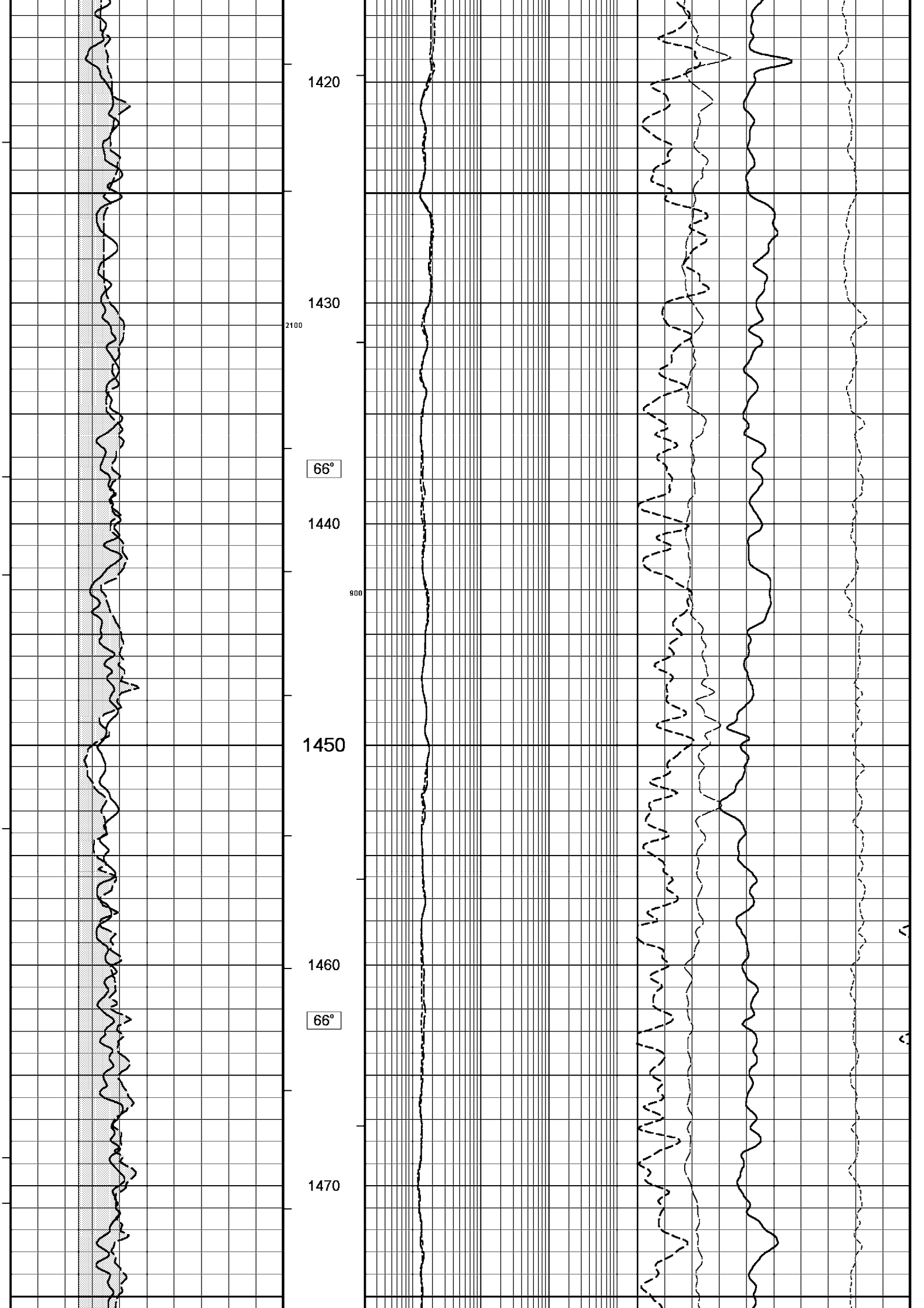


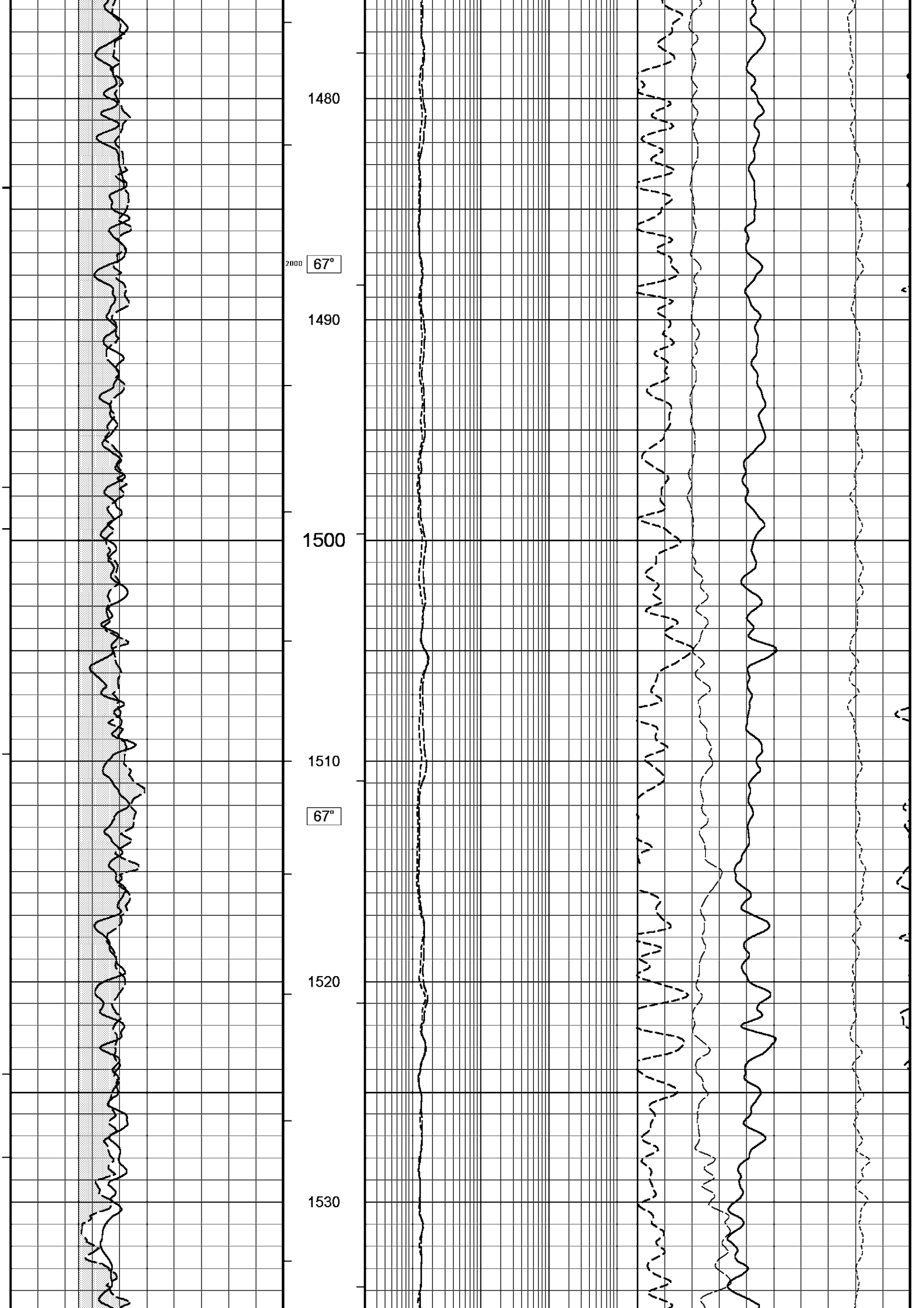


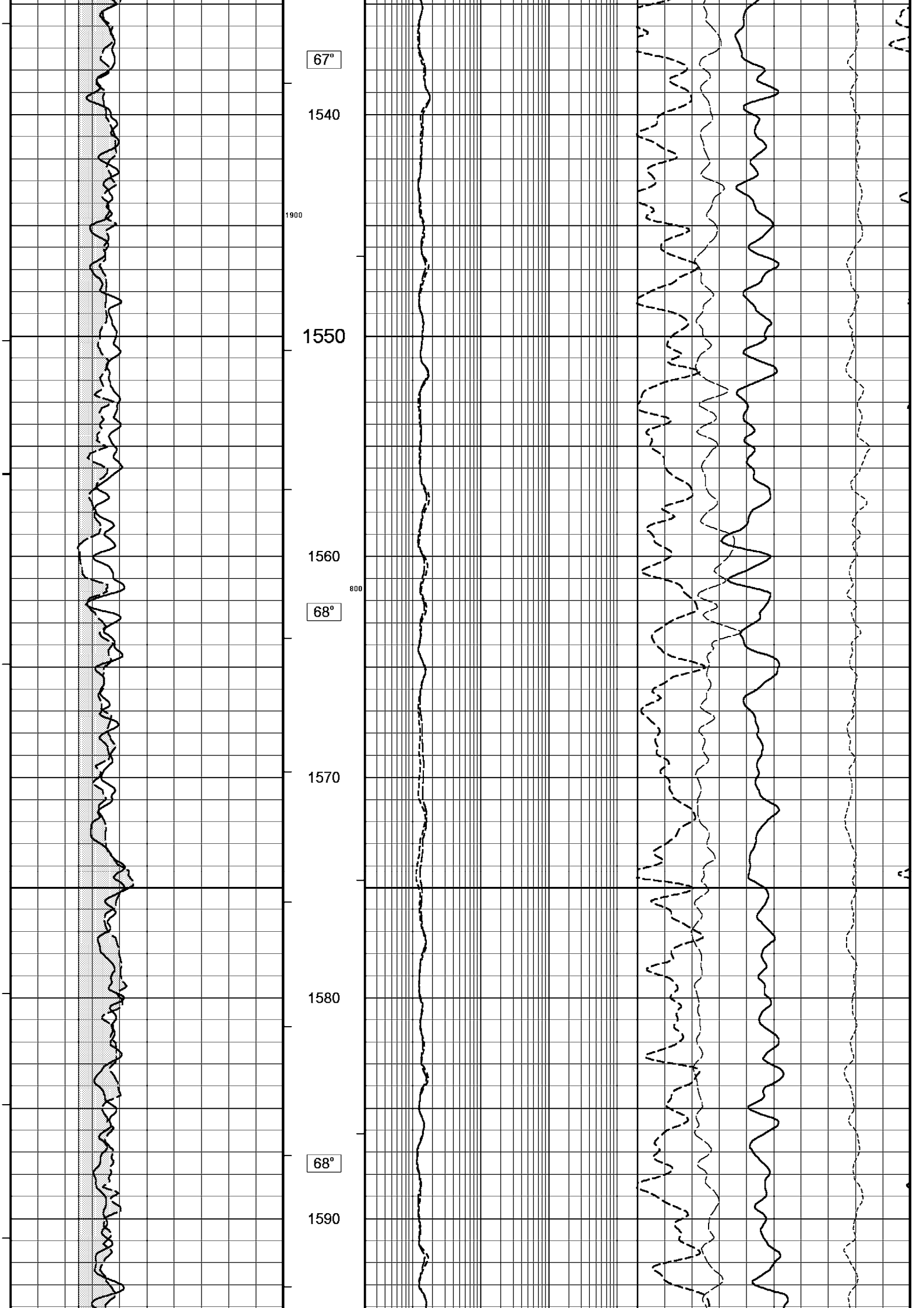


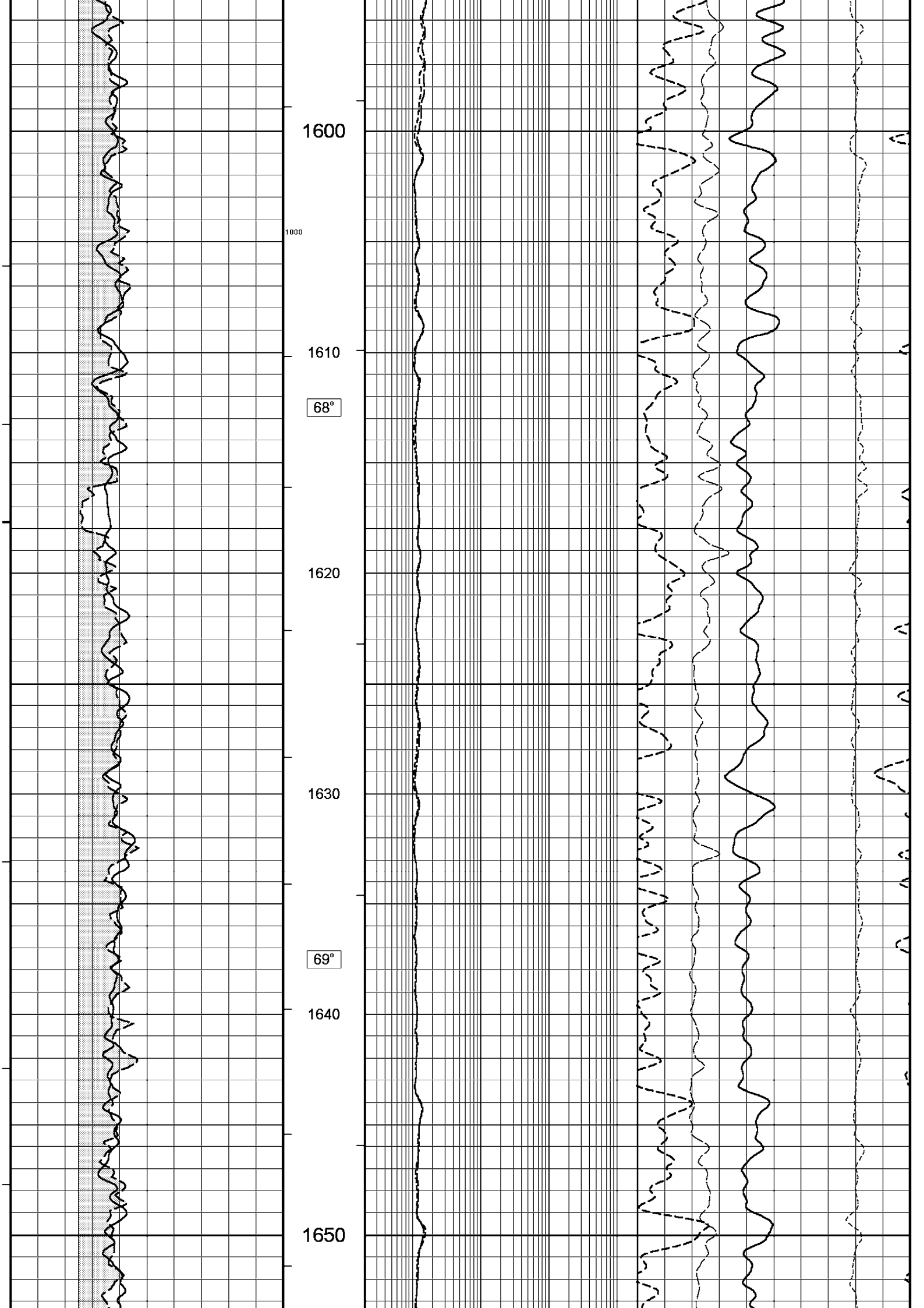


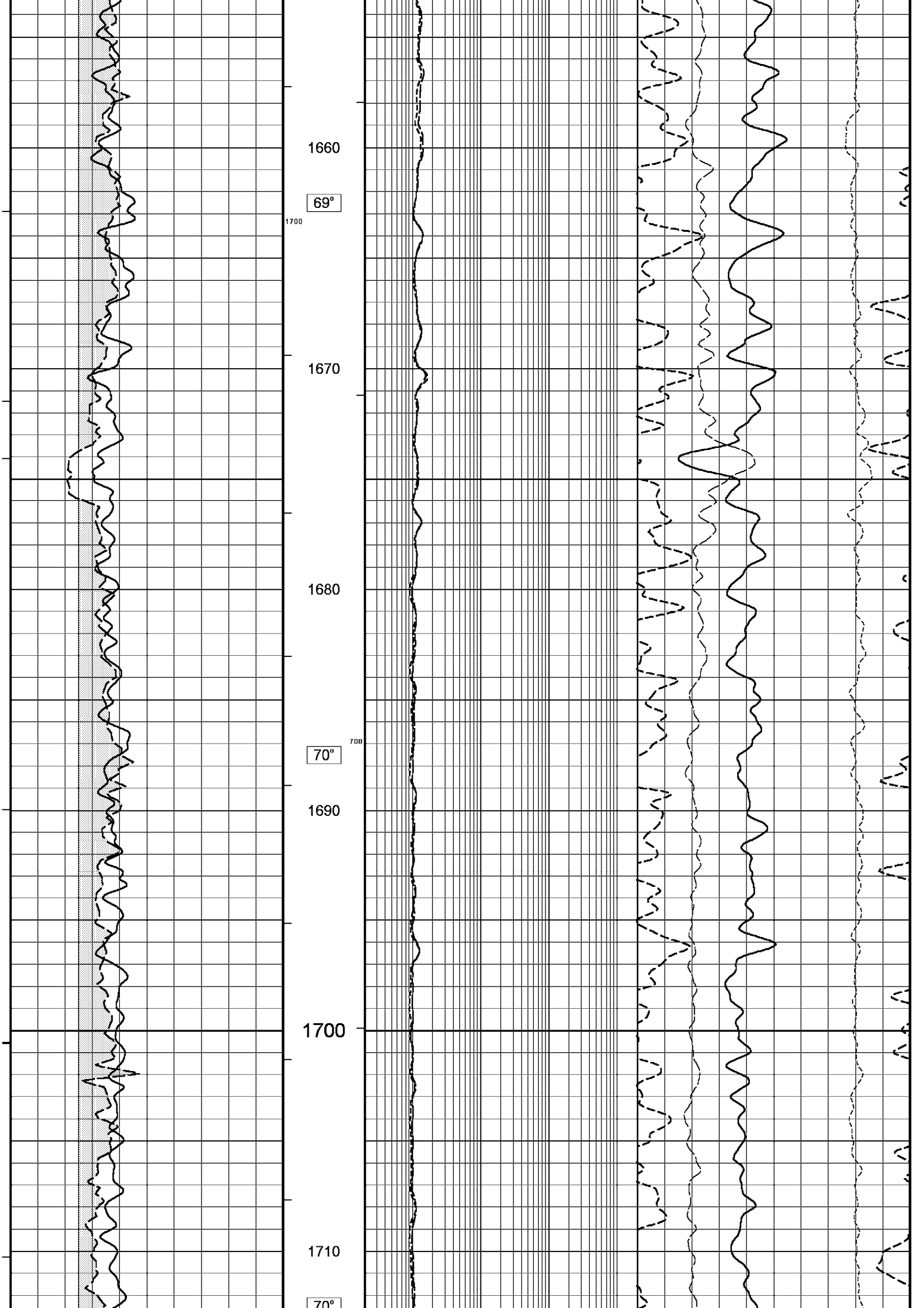


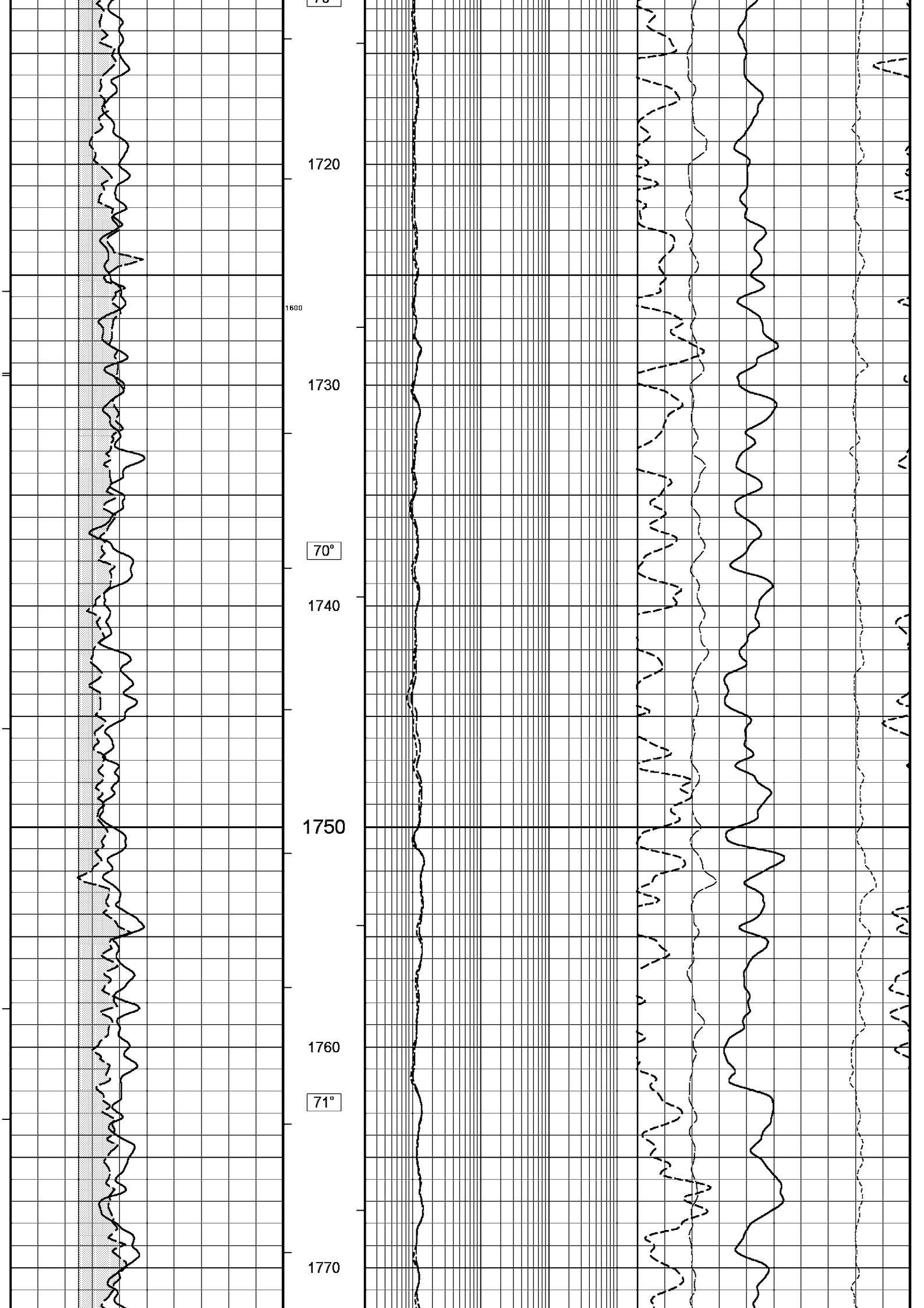


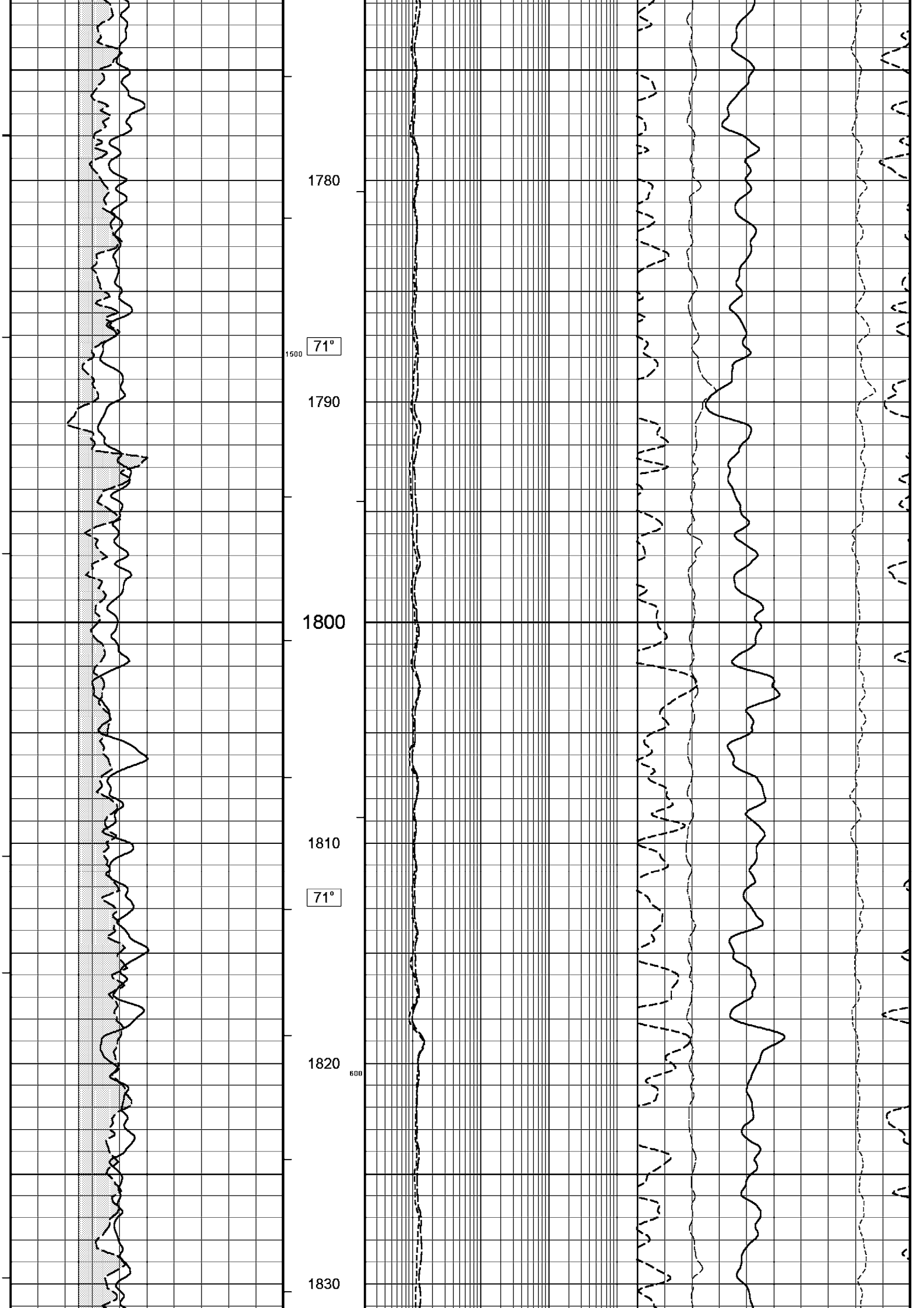


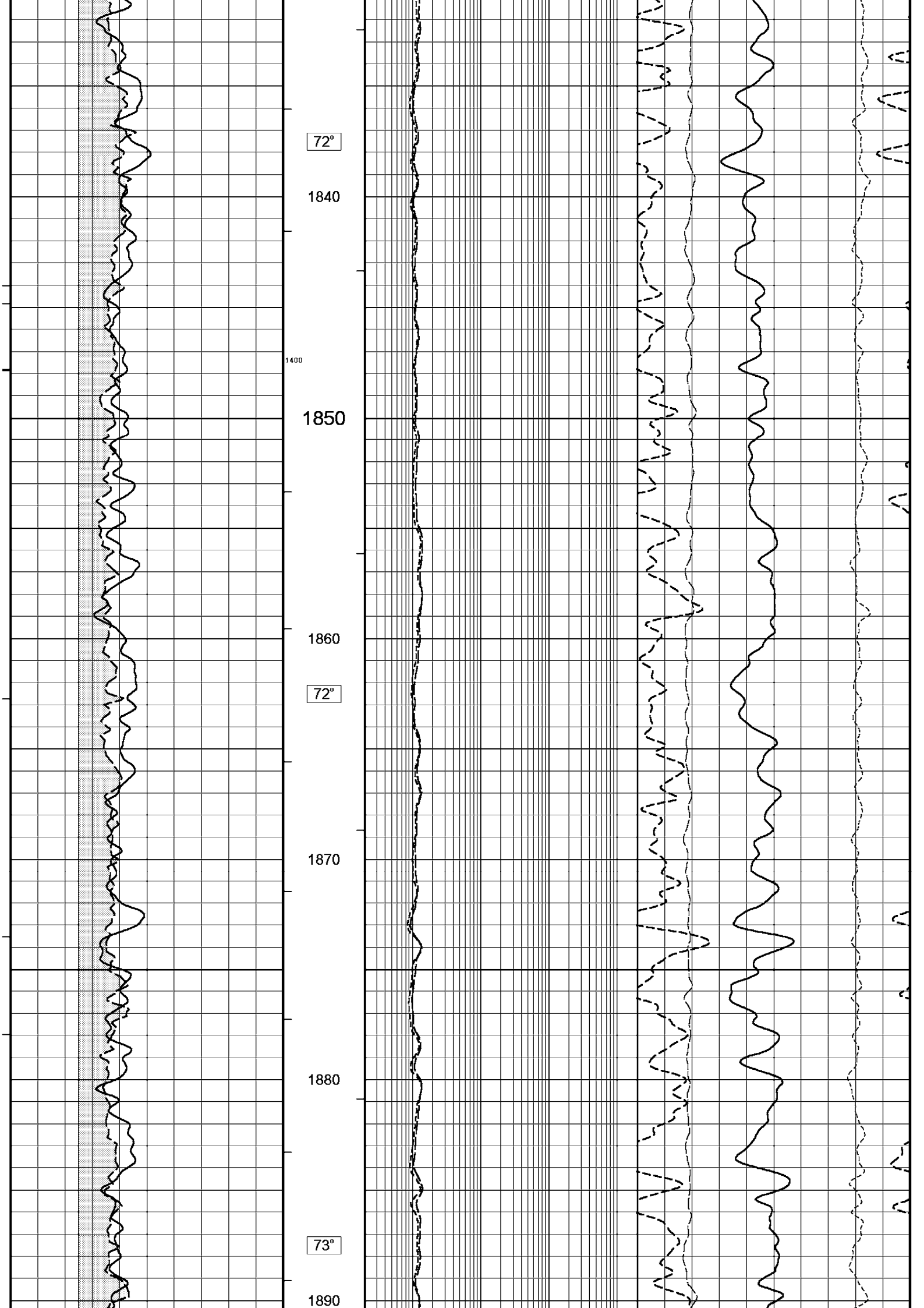


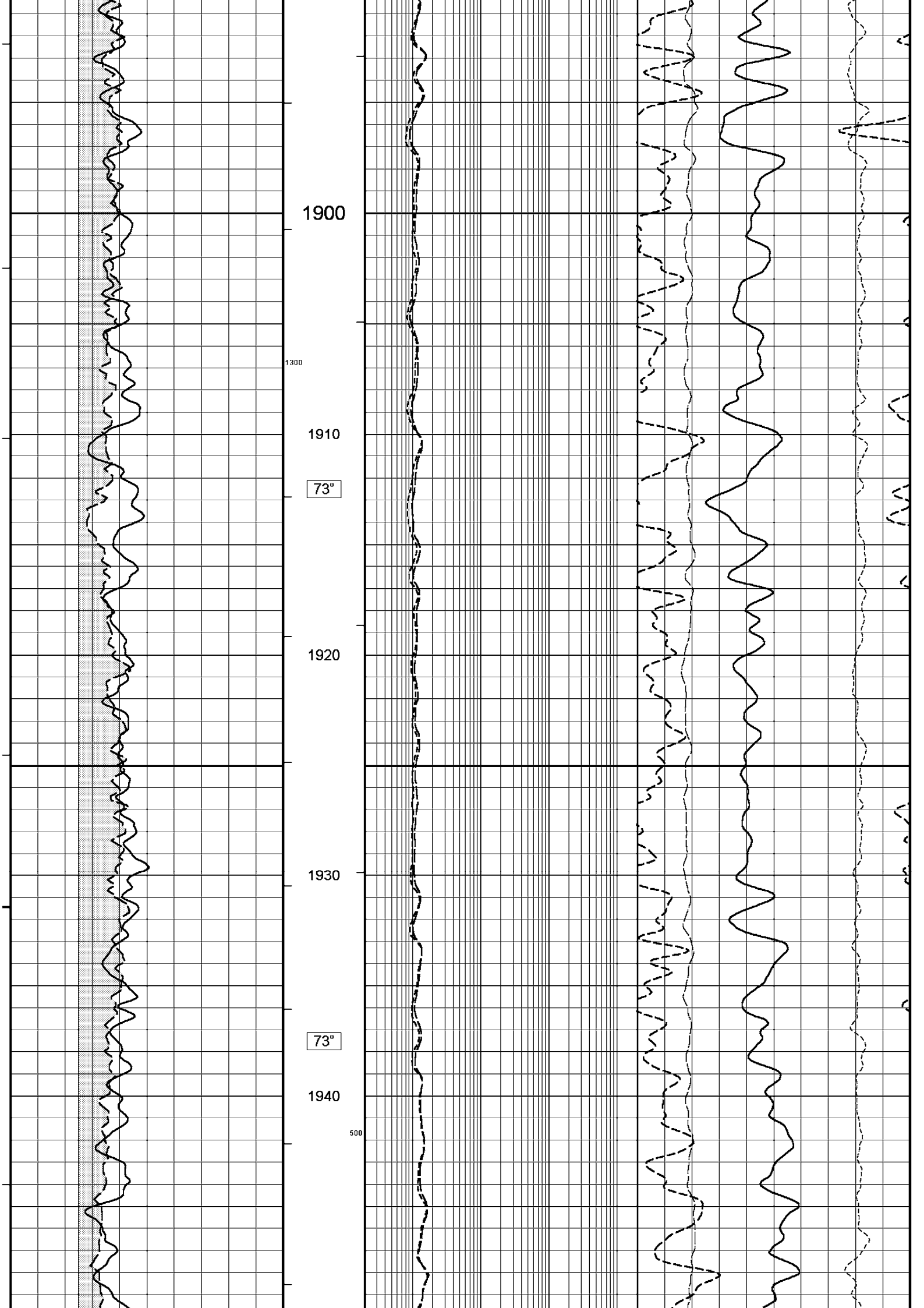


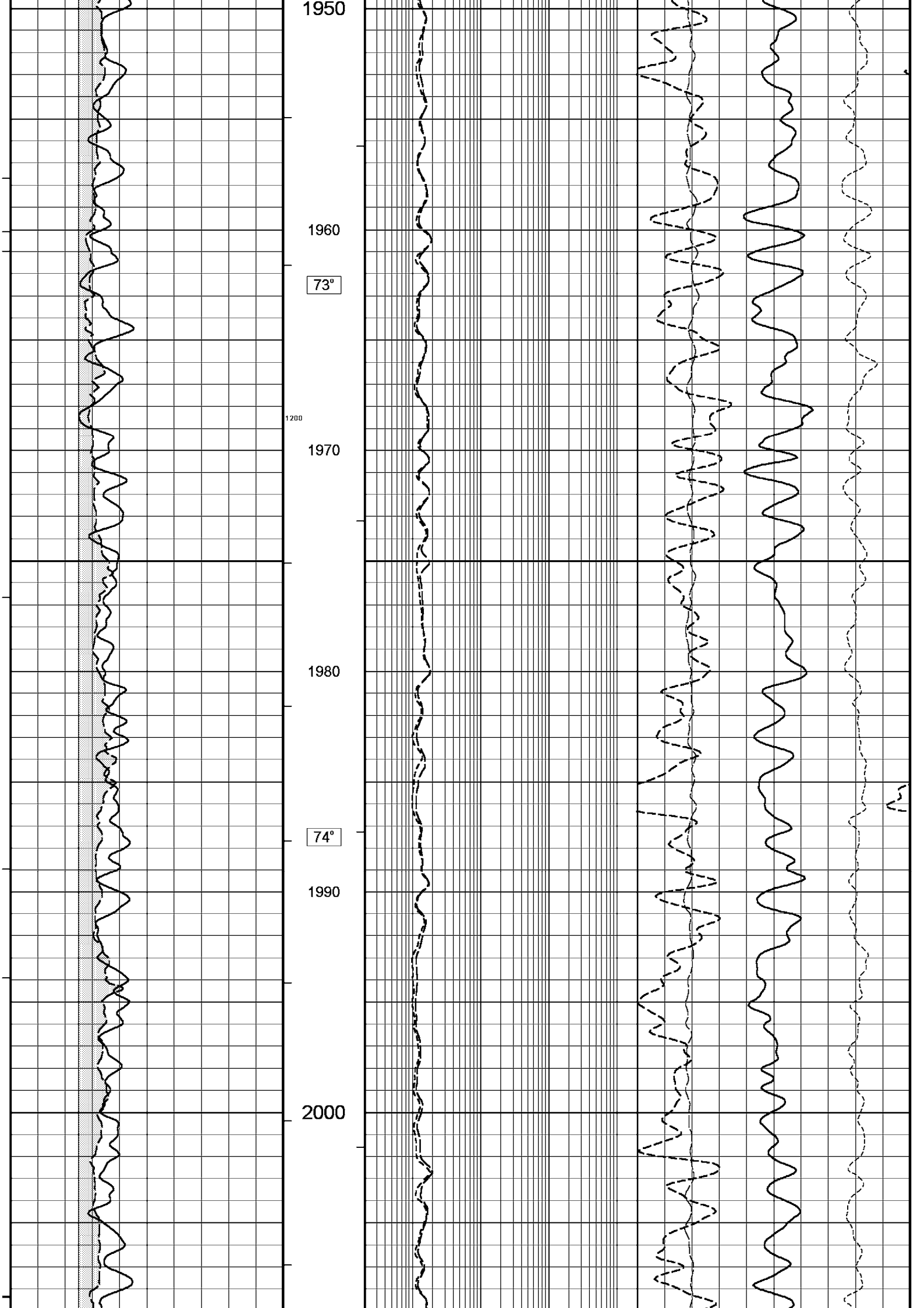


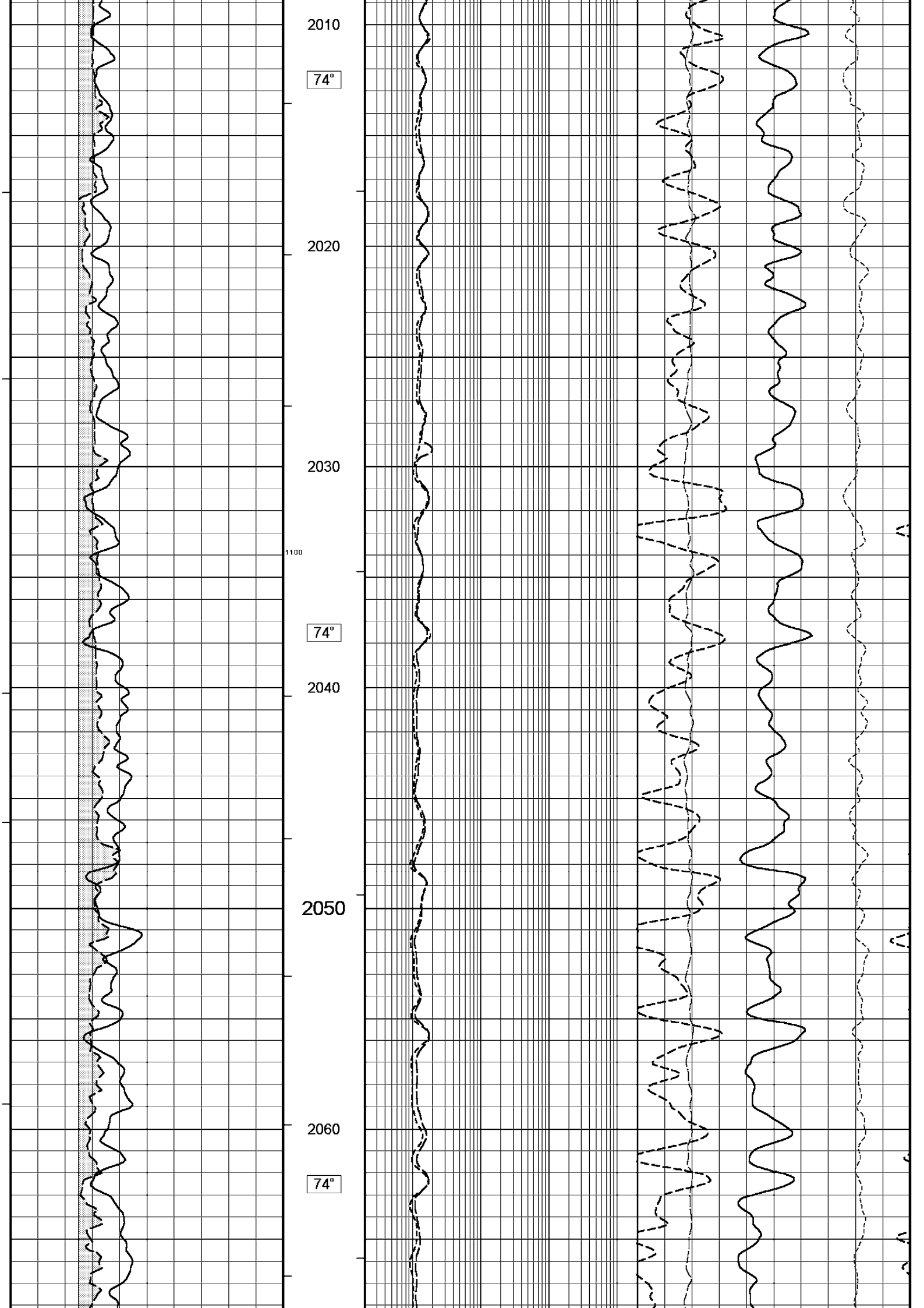


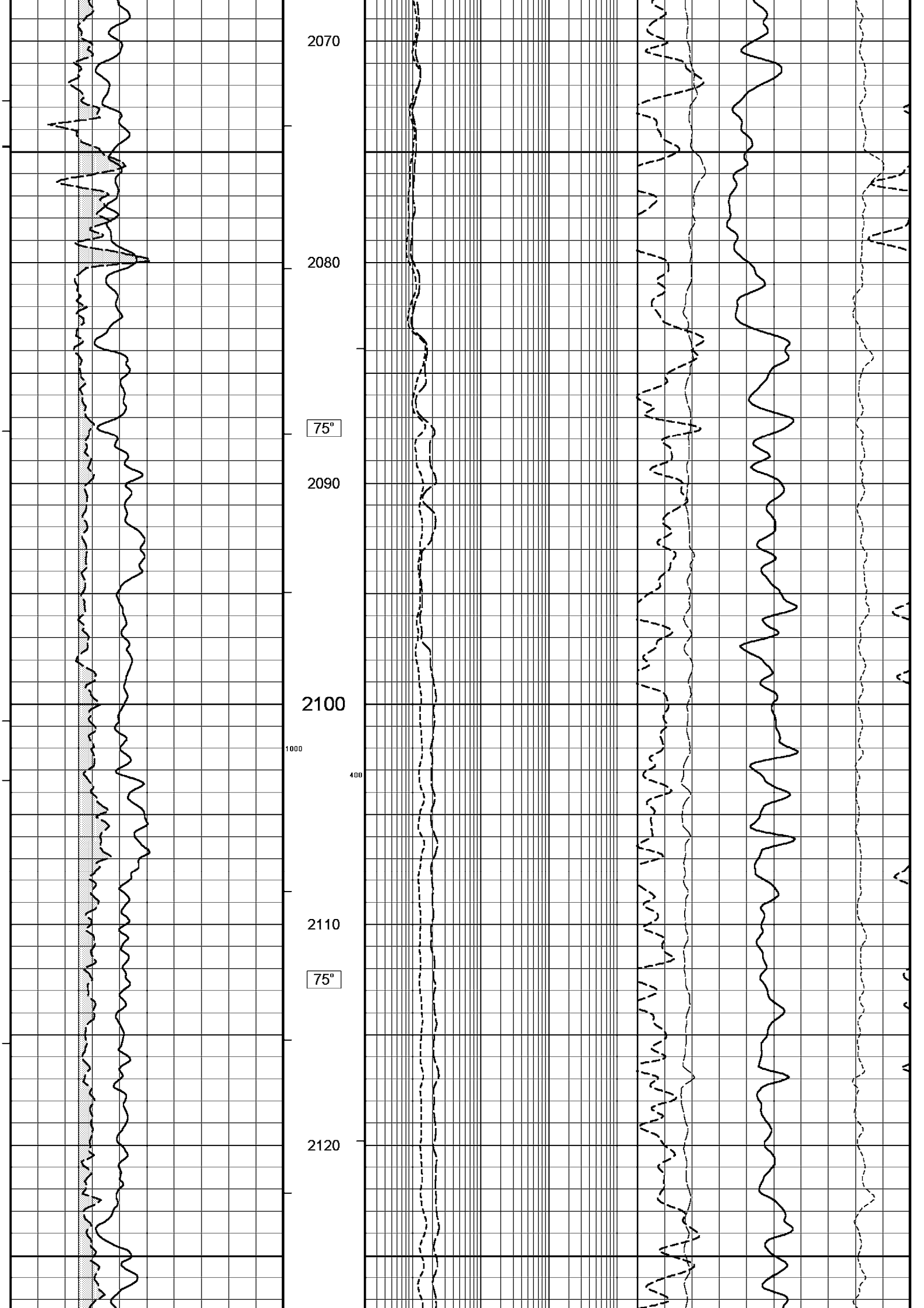


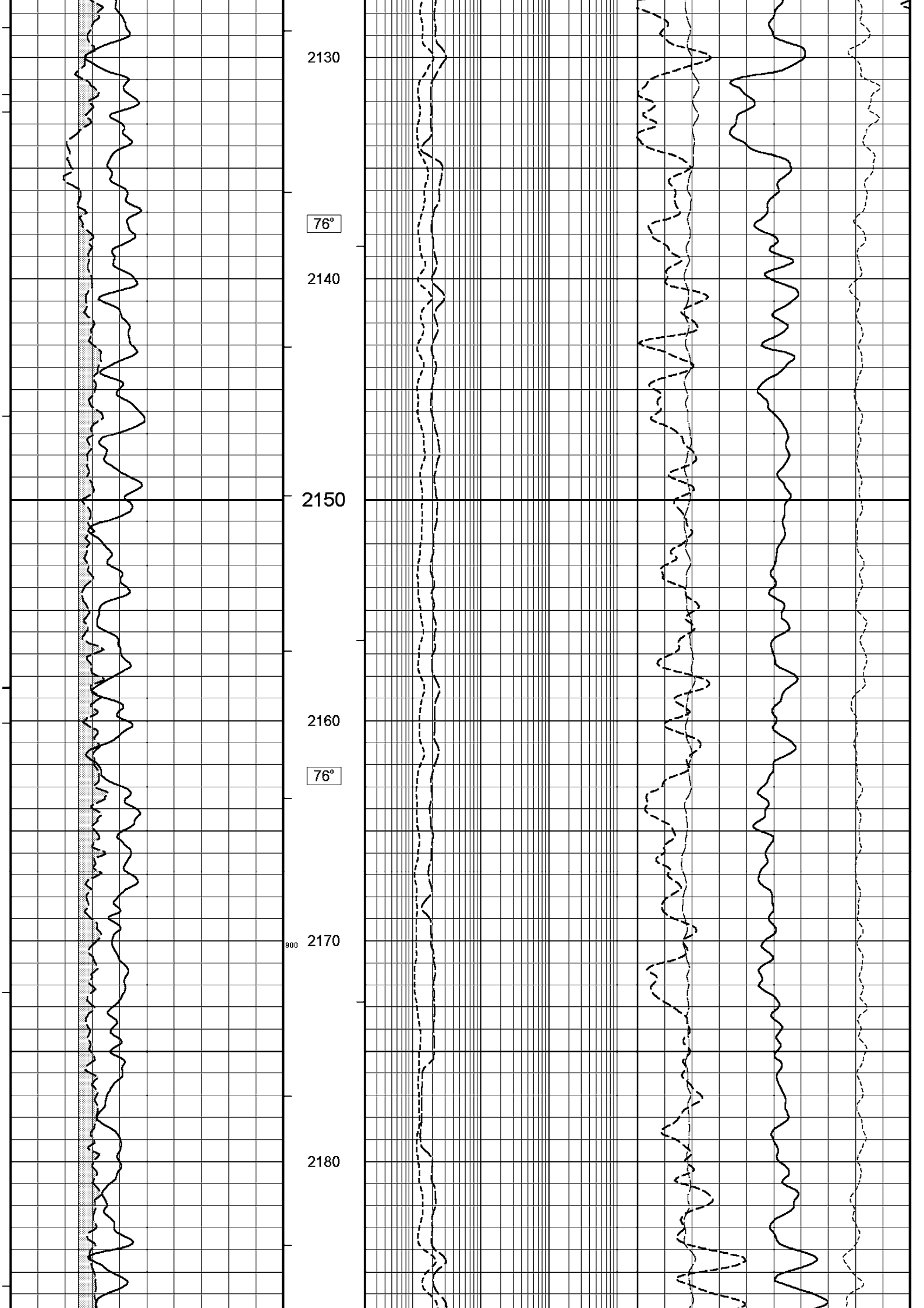


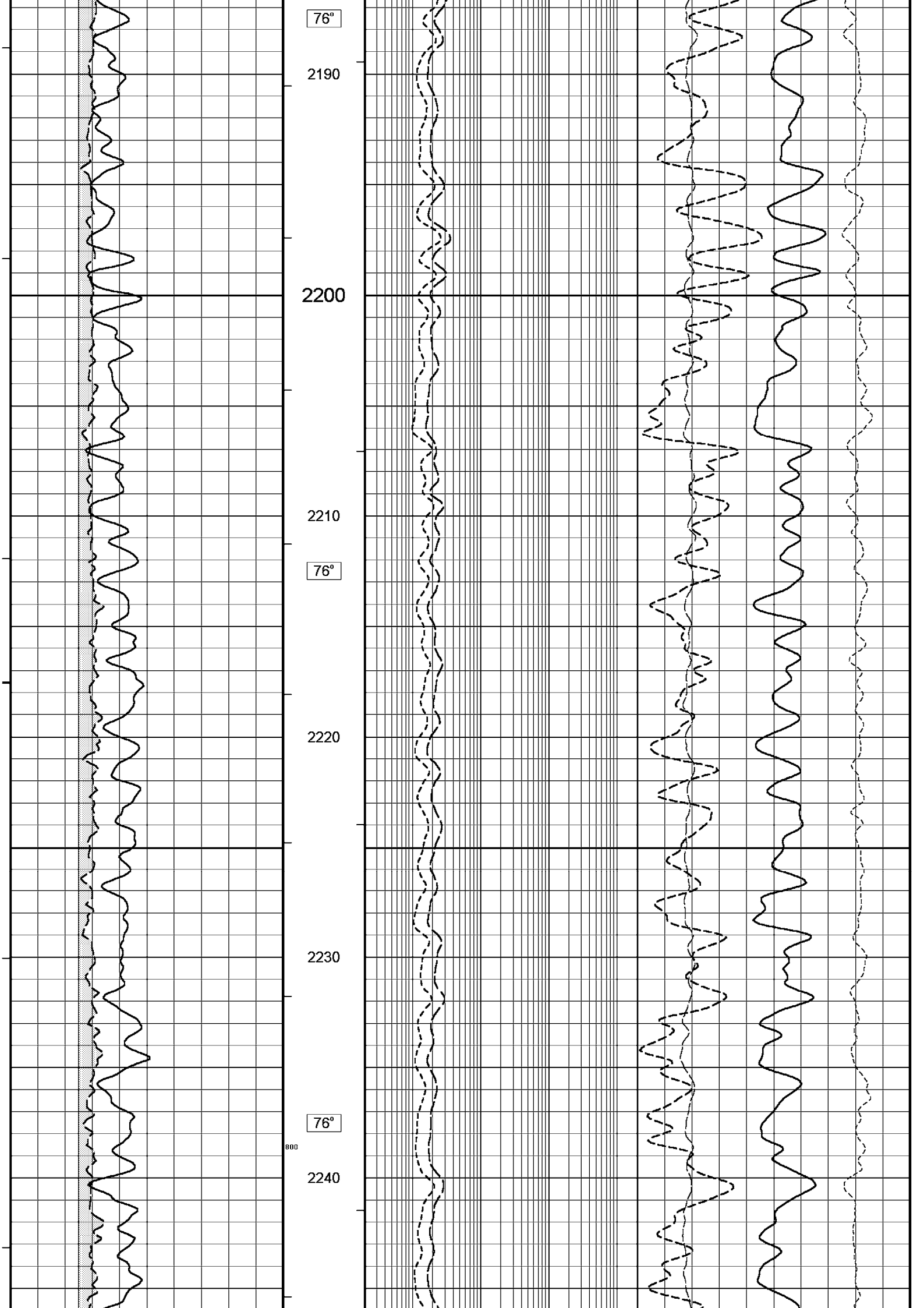


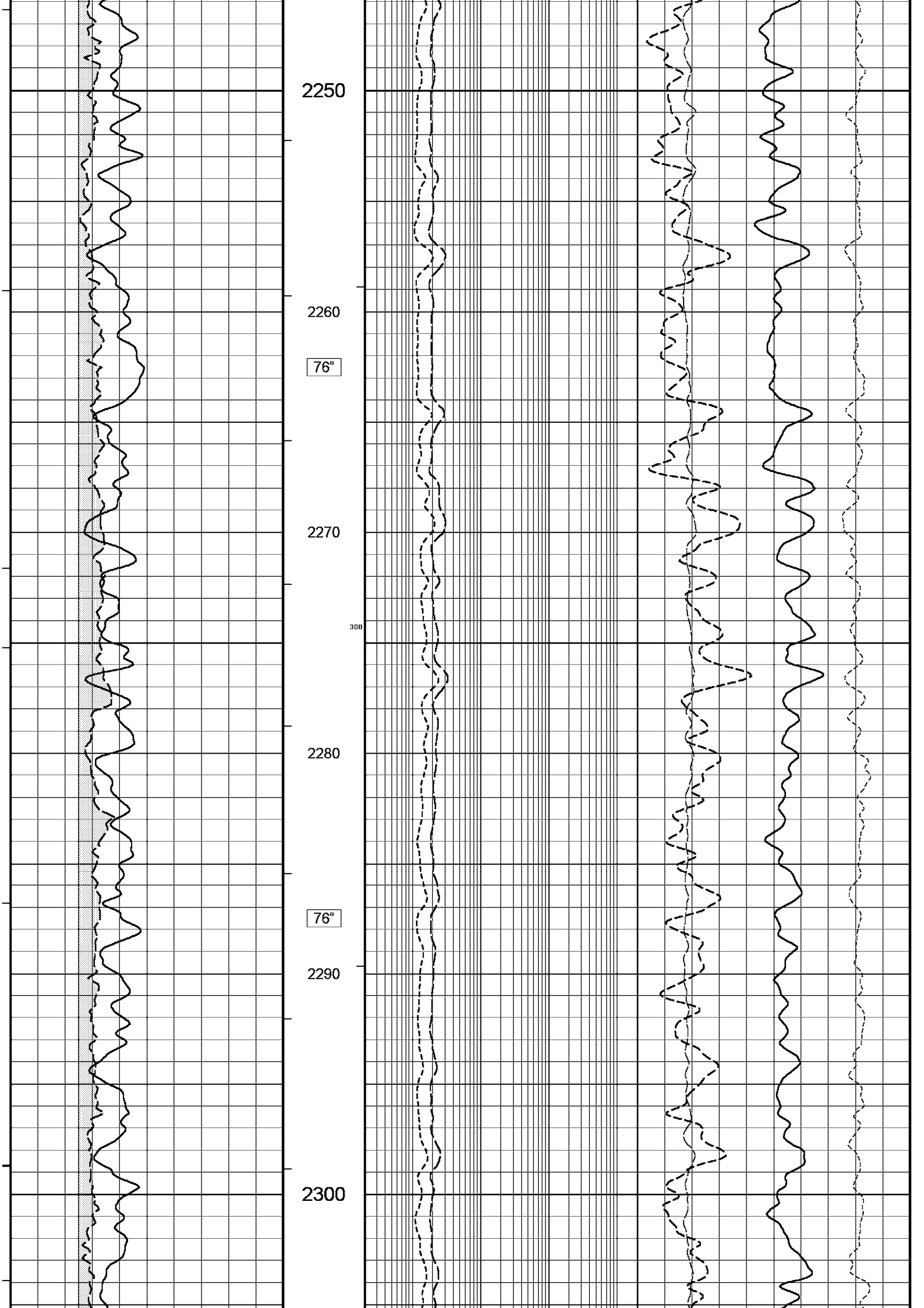


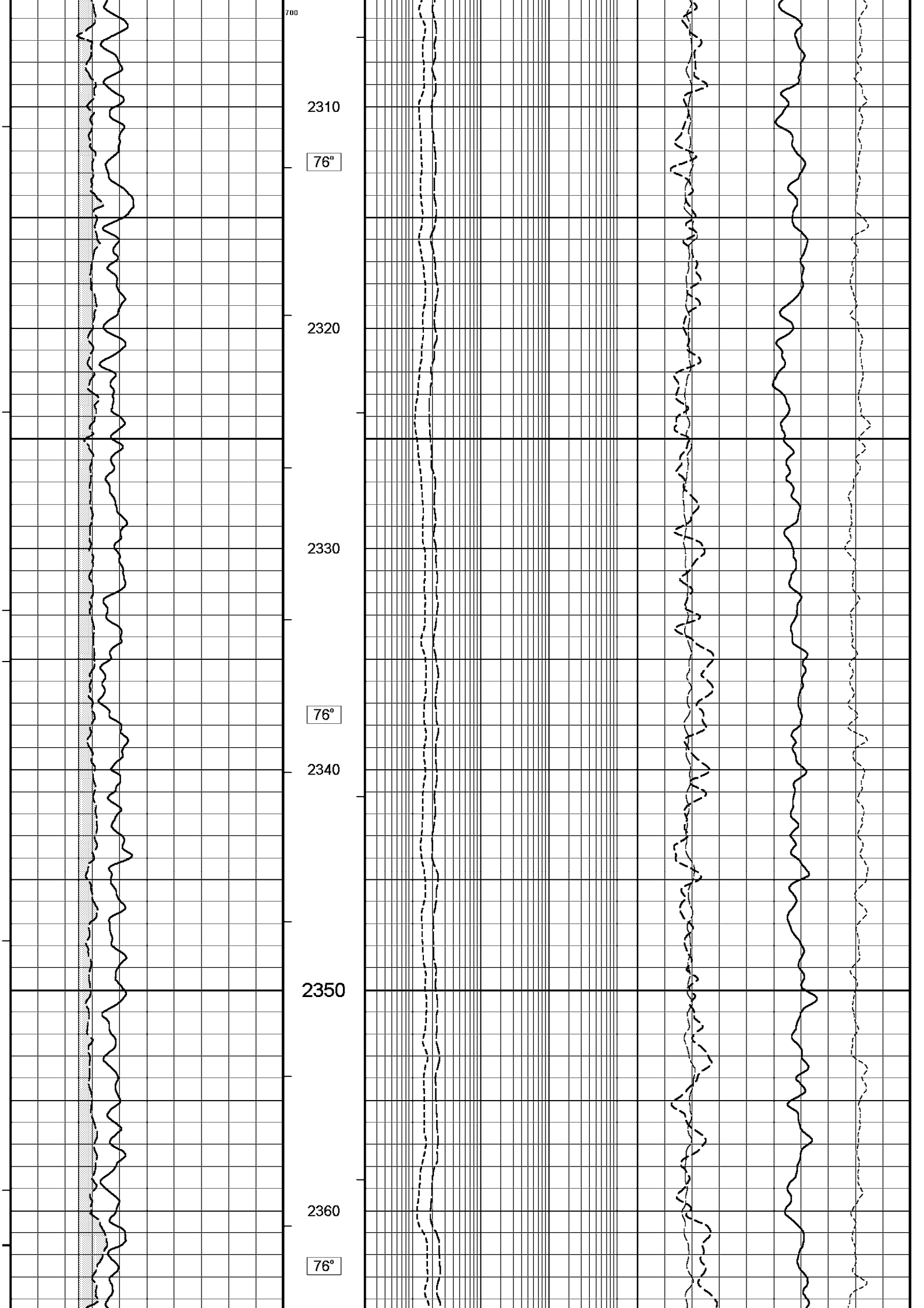


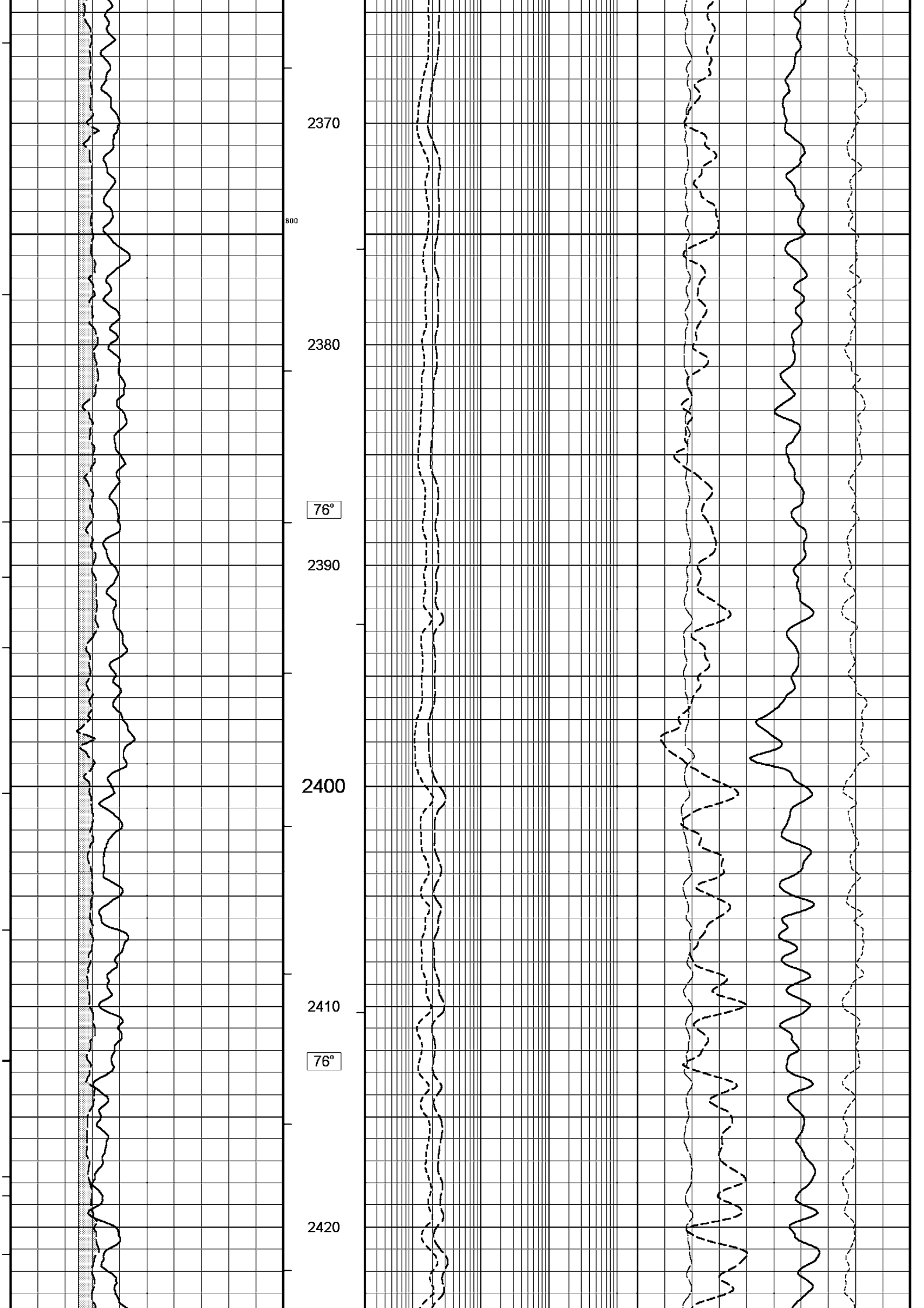


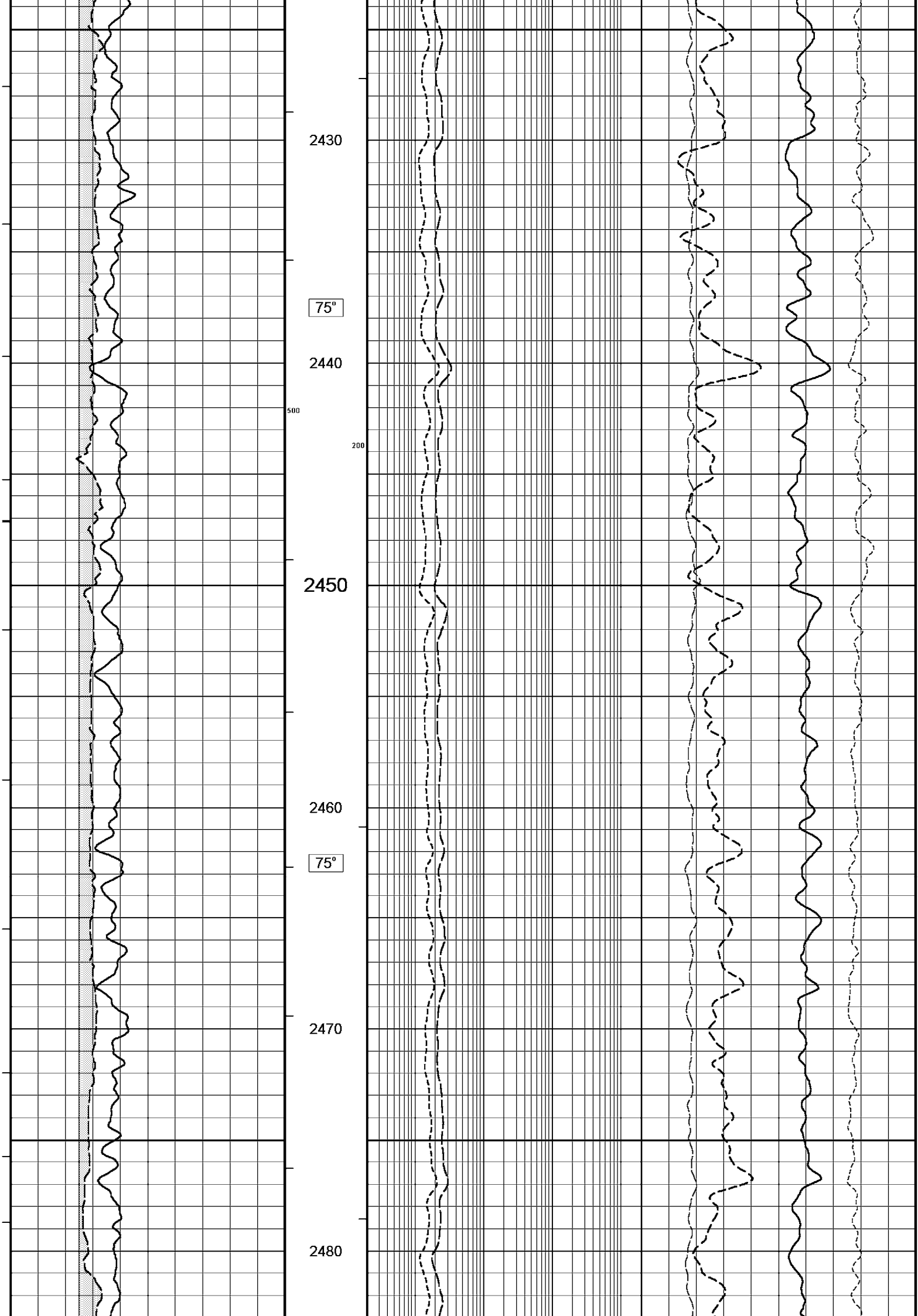


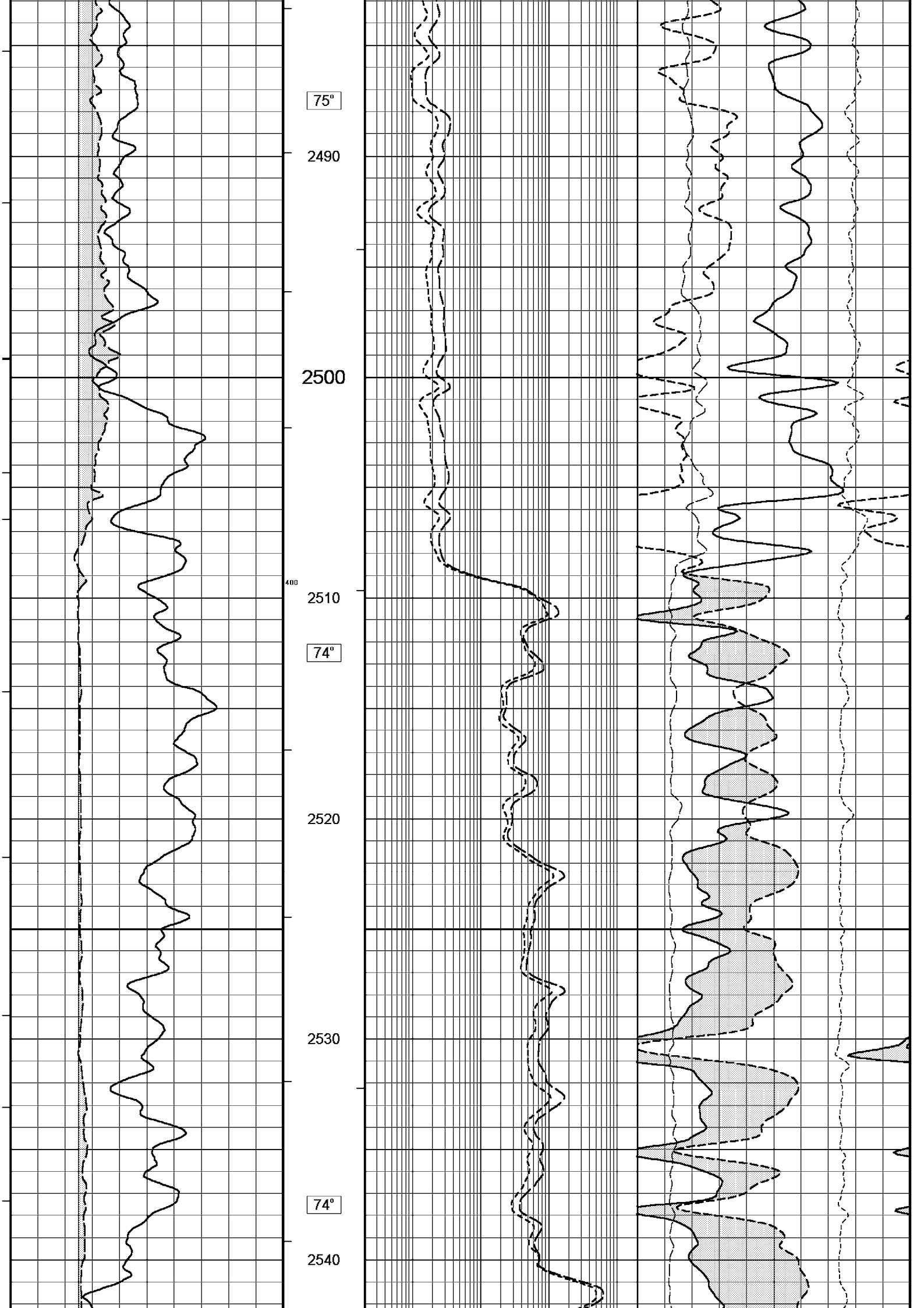


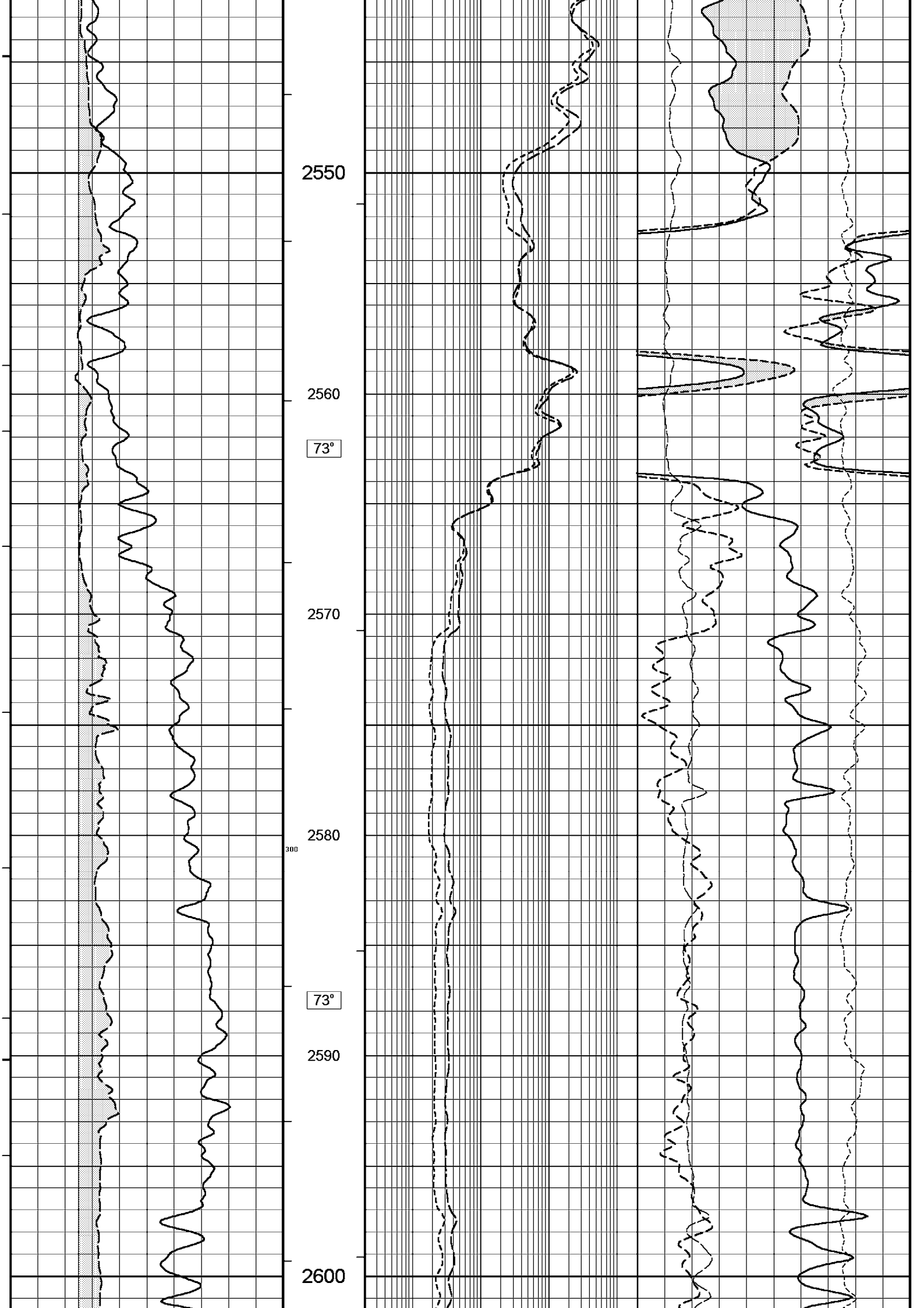


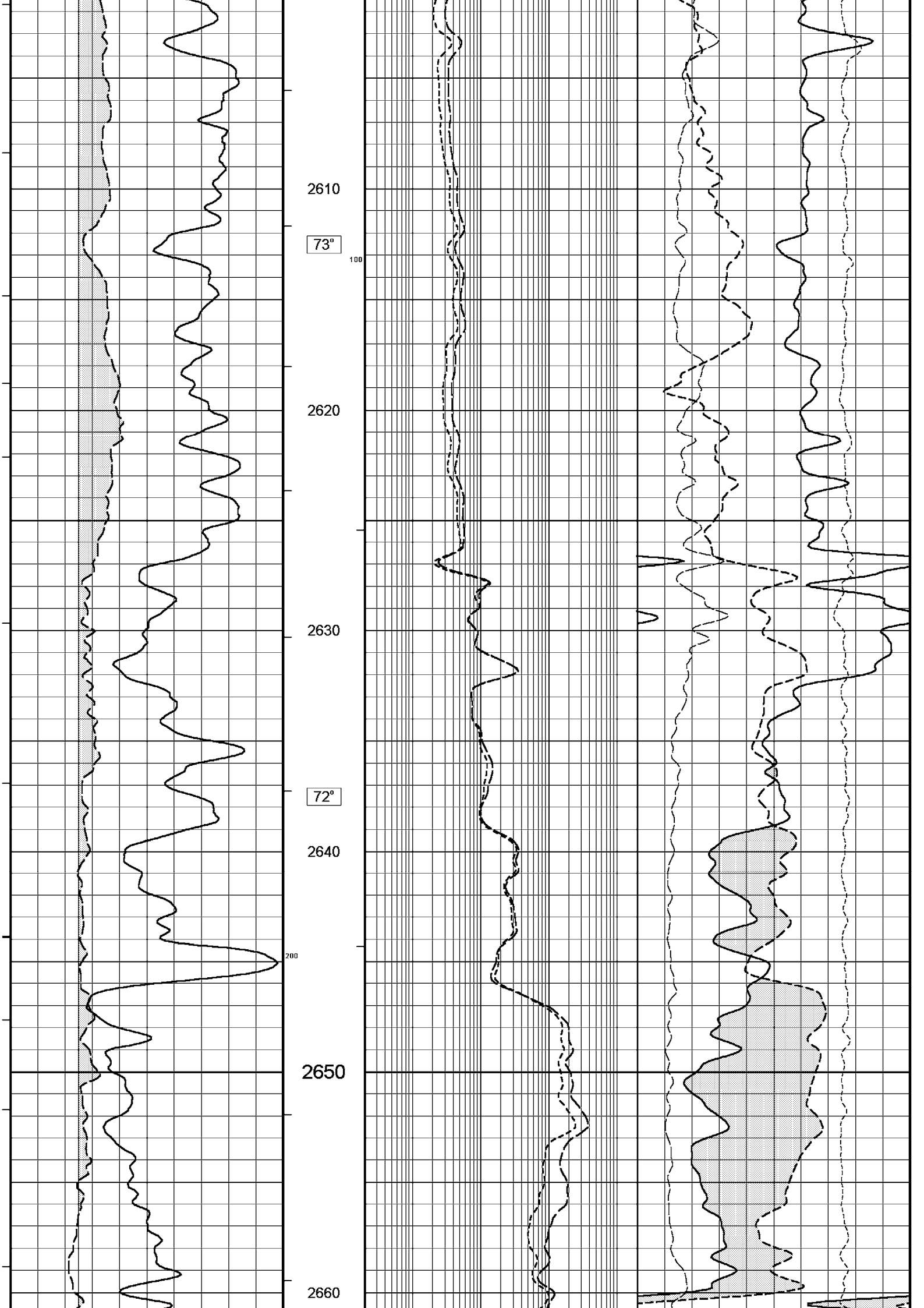


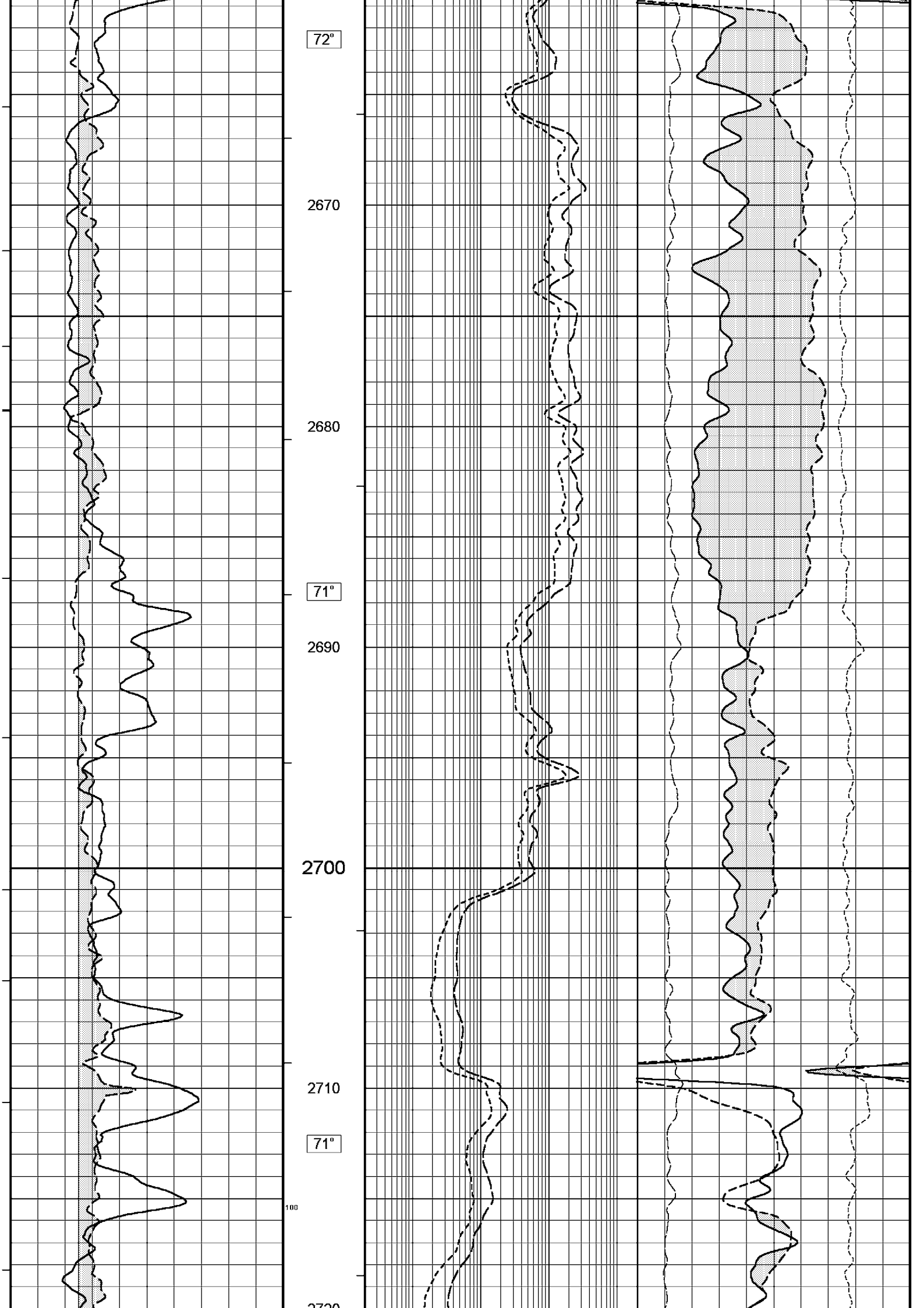


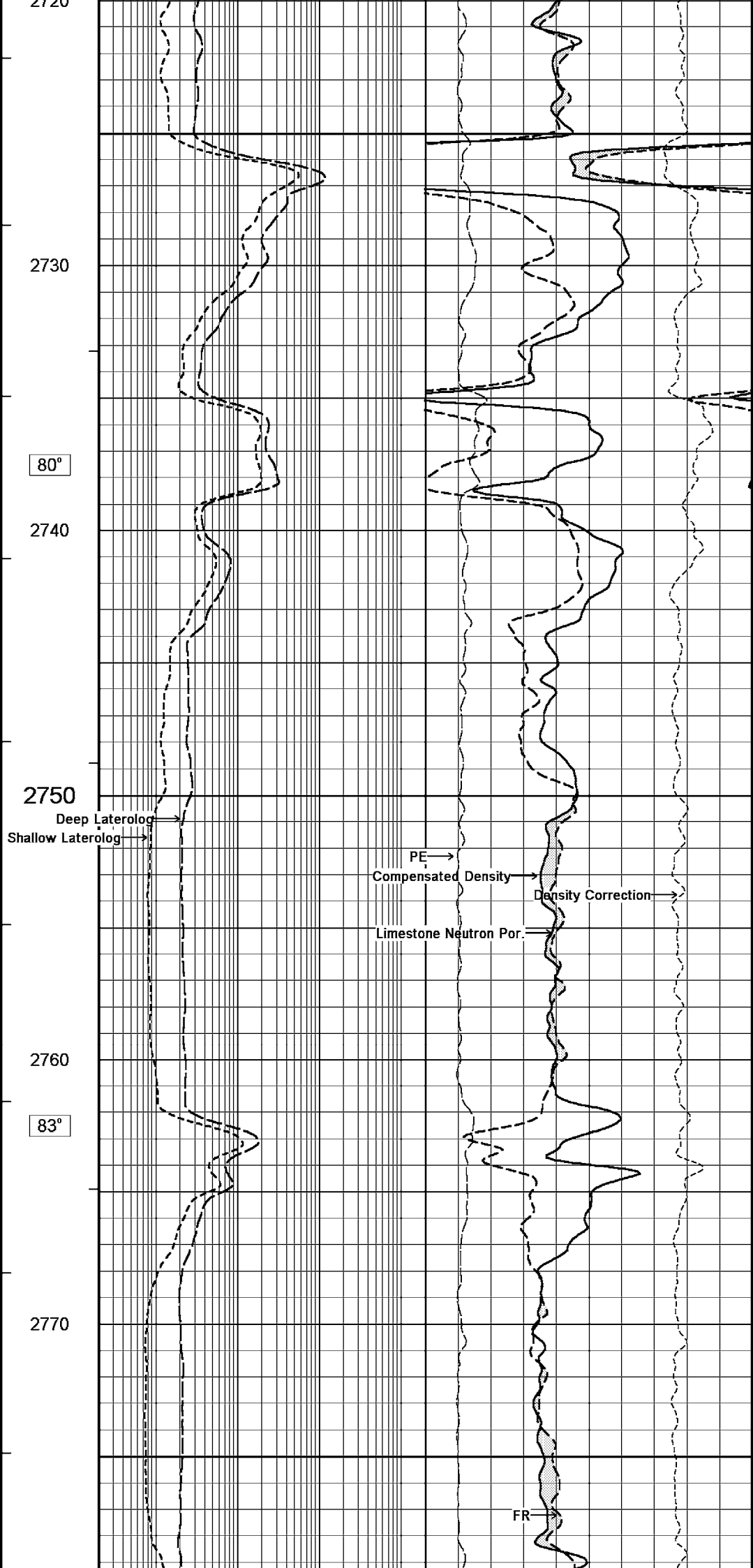
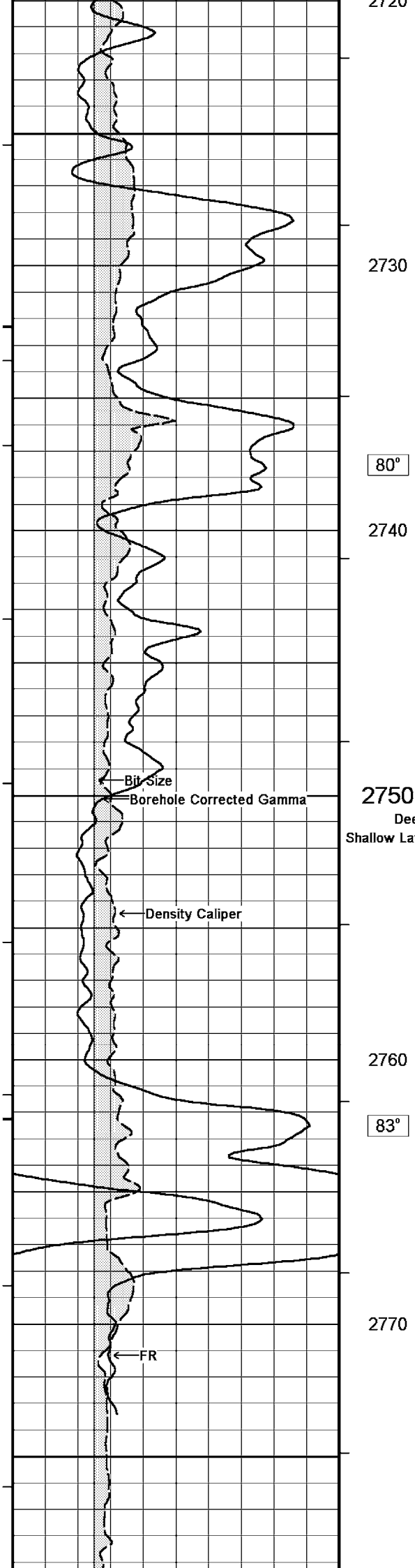


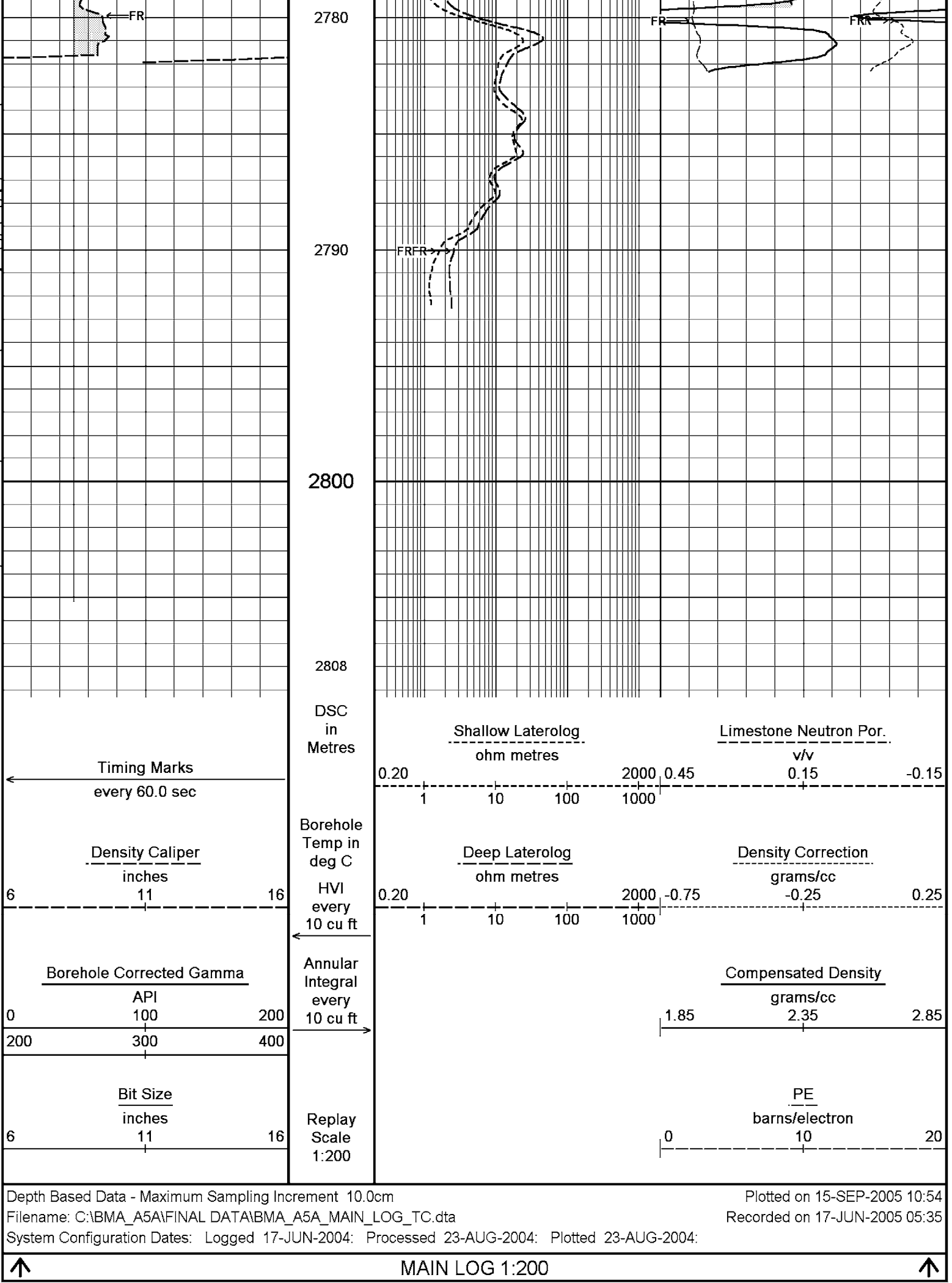












Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\BMA_A5A\FINAL DATA\BMA_A5A_MAIN_LOG_TC.dta
System Configuration Dates: Logged 17-JUN-2004: Processed 23-AUG-2004: Plotted 23-AUG-2004:

Plotted on 15-SEP-2005 10:54
Recorded on 17-JUN-2005 05:35

General Constants All 000				
General Parameters				
Mud Resistivity	0.115	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			
High Resolution Temperature Calibration MCG 098				
	Measured	Calibrated(Deg C)	Field Calibration on 15-JUN-2005,19:09	
Lower	0.00	0.00		
Upper	100.00	100.00		
High Resolution Temperature Constants MCG 098				
Pre-filter Length	11			
Gamma Calibration MCG 098				
	Measured	Calibrated (API)	Field Calibration on 15-JUN-2005 19:08	
Background	12	8		
Calibrator (Gross)	1353	917		
Calibrator (Net)	1341	909		
Gamma Constants MCG 098				
Gamma Calibrator Number	060			
Mud Density	1.21	gm/cc		
Caliper Source for Processing	Density Caliper			
Tool Position	Eccentred			
Concentration of KCl	0.00	kppm		
Neutron Calibration MDN 085				
Base Calibration			Base Calibration on 8-JUN-2005,17:33 Field Check on 15-JUN-2005 17:51	
	Measured	Calibrated (cps)		
	Near Far	Near Far		
	3147 97	3714 110		
Ratio	32.530	33.764		
Field Calibrator at Base			Calibrated (cps)	
		1655 2423		
Ratio		0.683		
Field Check			Calibrated (cps)	
		1533 2252		
Ratio		0.681		
Neutron Constants MDN 085				
Neutron Source Id	NSN-E-739			
Neutron Jig Number	NEC-C-052			
Epithermal Neutron	No			
Caliper Source for Processing	Density Caliper			
Stand-off	0.00	inches		
Mud Density	1.21	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	58.30	kppm		

Formation Fluid Salinity Source	None	
Formation Fluid Salinity	N/A	kppm
Barite Mud Correction	Not Applied	

Caliper Calibration MPD 083			Base Calibration on 8-JUN-2005,17:33
			Field Calibration on 15-JUN-2005 17:39
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	13504	4.01	
2	21630	5.99	
3	30082	7.98	
4	38559	9.94	
5	48000	12.01	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (in)	Actual Caliper (in)	
	8.00	7.99	

Photo Density Calibration MPD 083				Base Calibration on 8-JUN-2005,17:32	
				Field Check on 15-JUN-2005 17:38	
Density Calibration					
Base Calibration		Measured		Calibrated (sdu)	
		Near	Far	Near	Far
	Reference 1	54308	18863	53111	19310
	Reference 2	25580	2509	24951	2530
Field Check at Base					
		960.0	1111.9		
Field Check					
		951.7	1109.8		
PE Calibration					
Base Calibration		Measured		Calibrated	
	WS	WH	Ratio	Ratio	
	Background	181	824		
	Reference 1	17282	54115	0.321	0.320
	Reference 2	6883	25434	0.272	0.273
Field Check at Base					
	181.5	823.9			
Field Check					
	180.9	819.0			

Density Constants MPD 083				
Density Source Id	242			
Nylon Calibrator Number	536			
Aluminium/Fe Calibrator Number	536			
Density Shoe Profile	4 inch			
Caliper Source for Processing	Density Caliper			
PE Correction to Density	Not Applied			
Mud Density	1.21	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 016					Base Calibration on 9-JUN-2005,19:41	
Base Calibration					Field Check on 15-JUN-2005,19:44	
		Measured	Calibrated (ohm-m)			
Channel	Resistor 1	Resistor 2	Resistor 1	Resistor 2		
Channel	0.7	000.0	12.2	1221.0		

Shallow	9.7	960.9	13.2	1321.0
Deep	9.7	985.3	7.5	755.0
Groningen	9.7	966.7	8.5	854.0

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Shallow	49.4	49.4
Deep	27.7	27.7
Groningen	254.2	254.2

Laterolog Constants MLE 016

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:\BMA_A5A\FINAL DATA\BMA_A5A_MAIN_LOG_TC.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: 90.4 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 139 Length: 0.65 m Weight: 15.4 lb

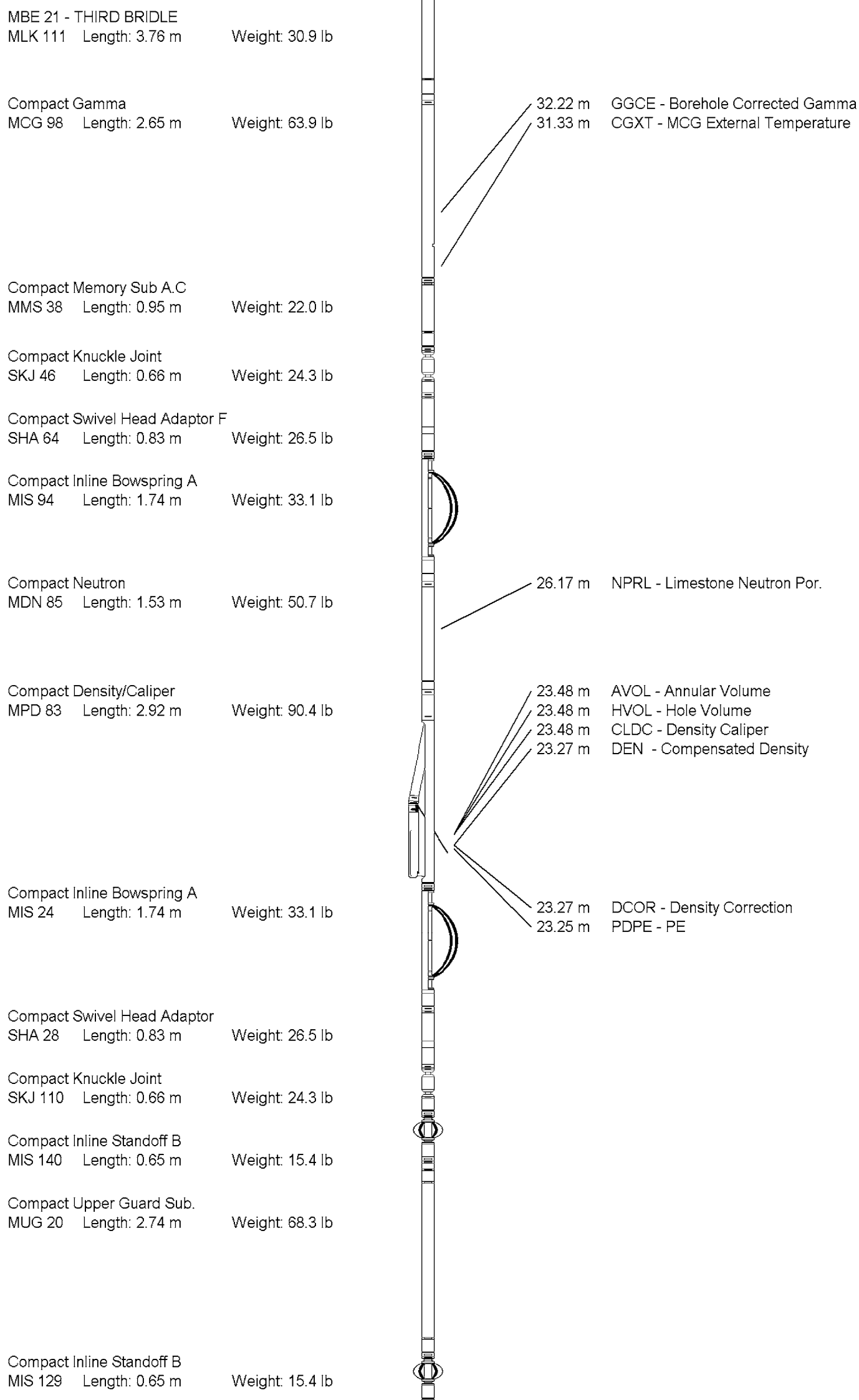
Compact Stiff Bridle Electrode Sub.

MBE 19 Length: 3.76 m Weight: 94.8 lb

Compact Inline Standoff B

MIS 136 Length: 0.65 m Weight: 15.4 lb





Compact Laterolog Electrode Sub.
MLE 16 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 133 Length: 0.65 m Weight: 15.4 lb

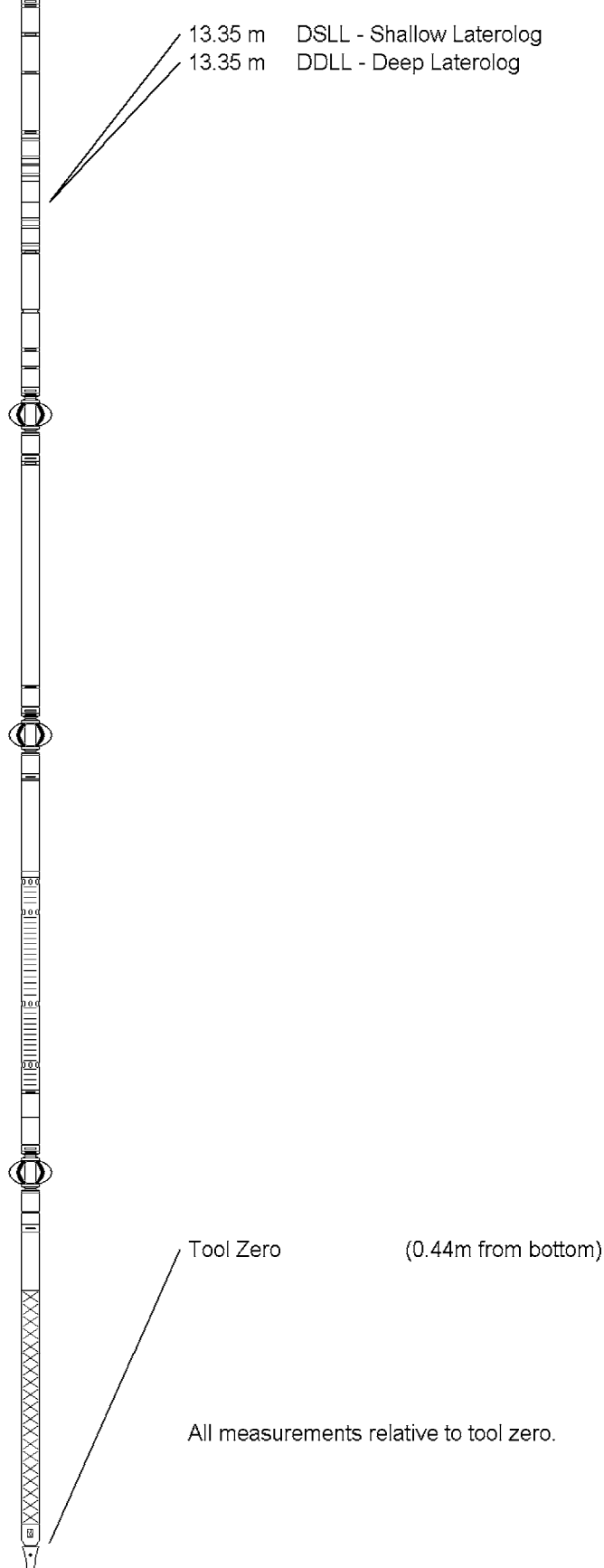
Compact Sonic
MSS 66 Length: 3.82 m Weight: 72.8 lb

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

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

Induction Standoff
HFS 4 Length: 0.40 m Weight: 6.6 lb

Total Length: 53.36 m Weight: 1223.6 lb



COMPANY	ESSO AUSTRALIA PTY LTD
WELL	BREAM A5A
FIELD	BREAM
PROVINCE/COUNTY	BASS STRAIT
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing	metres	First Reading	2790.10	metres
Elevation Drill Floor	32.82 metres	Depth Driller	2810.00	metres
Elevation Ground Level	-59.40 metres	Depth Logger	2803.90	metres



DUAL LATEROLOG - GR

