



COMPENSATED SONIC
1.200 MD

COMPANY				ESSO AUSTRILIA PTY LTD			
WELL				BREAM A5A			
FIELD				BREAM			
PROVINCE/COUNTY				BASS STRAIT			
COUNTRY/STATE				AUSTRALIA			
LOCATION				S 38 29 58.778, E 147 46 20.334			
				N 5738461.680 m, E 567345.000 m			
				FINAL PRINT			
LSD	SEC	TWP	RGE	Other Services			
				DUAL LATEROLOG			
API Number				COMPENSATED NEUTRON			
Permit Number				PHOTO DENSITY			
Permanent Datum MSL				, Elevation 0.0 metres		Elevations:	
Log Measured From RT @ 32.82m				above Permanent Datum		KB	metres
Drilling Measured From RT						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	2798.80			metres			
Last Reading	895.00			metres			
Casing Driller	895.50			metres			
Casing Logger	895.00			metres			
Bit Size	8.50			inches			
Hole Fluid Type	KC/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						

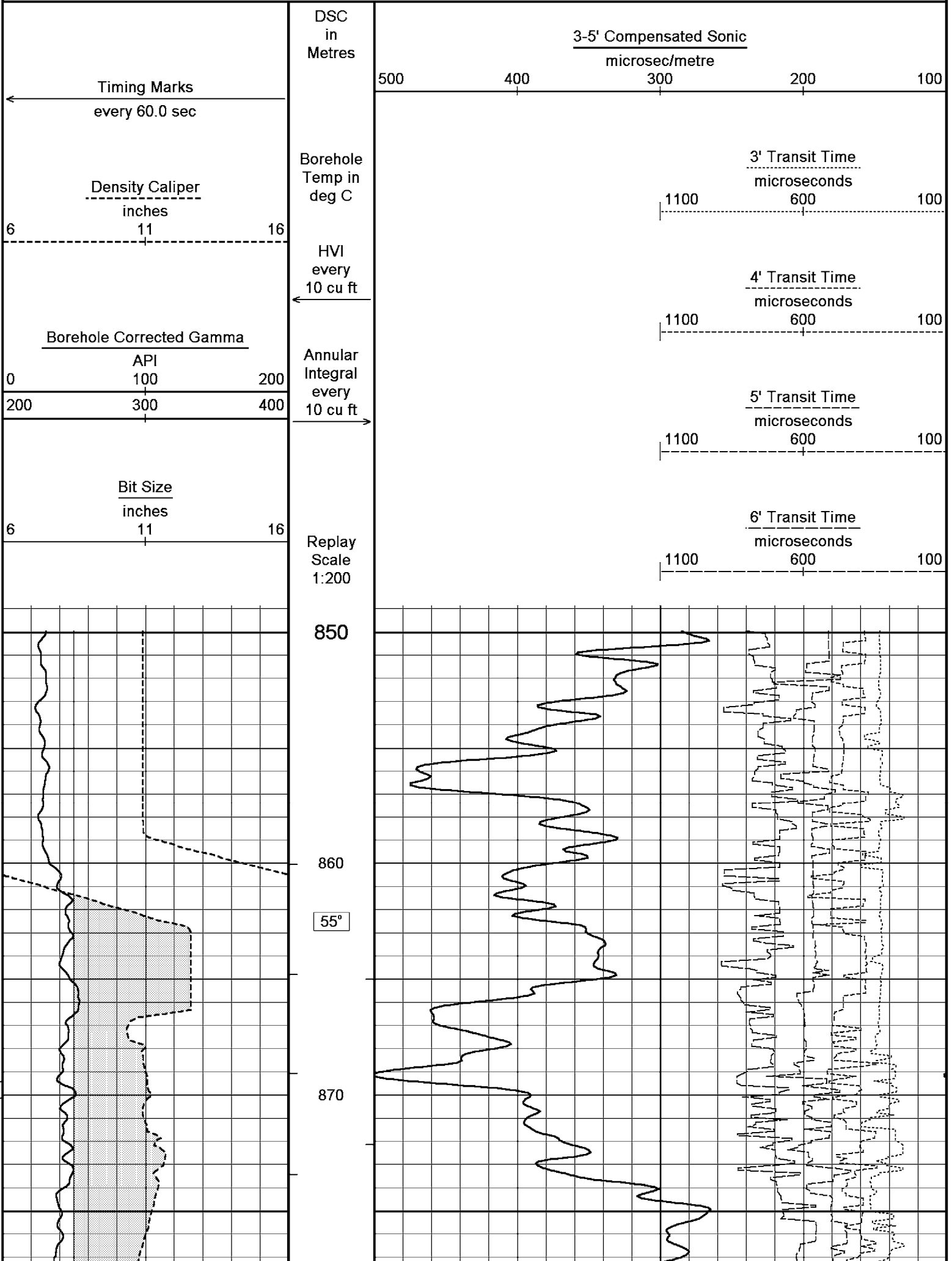
BOREHOLE RECORD				
Bit Size inches		Depth From metres		Depth To metres
8.500		895.00		2810.00
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	13.375	0.00	895.00	54.50

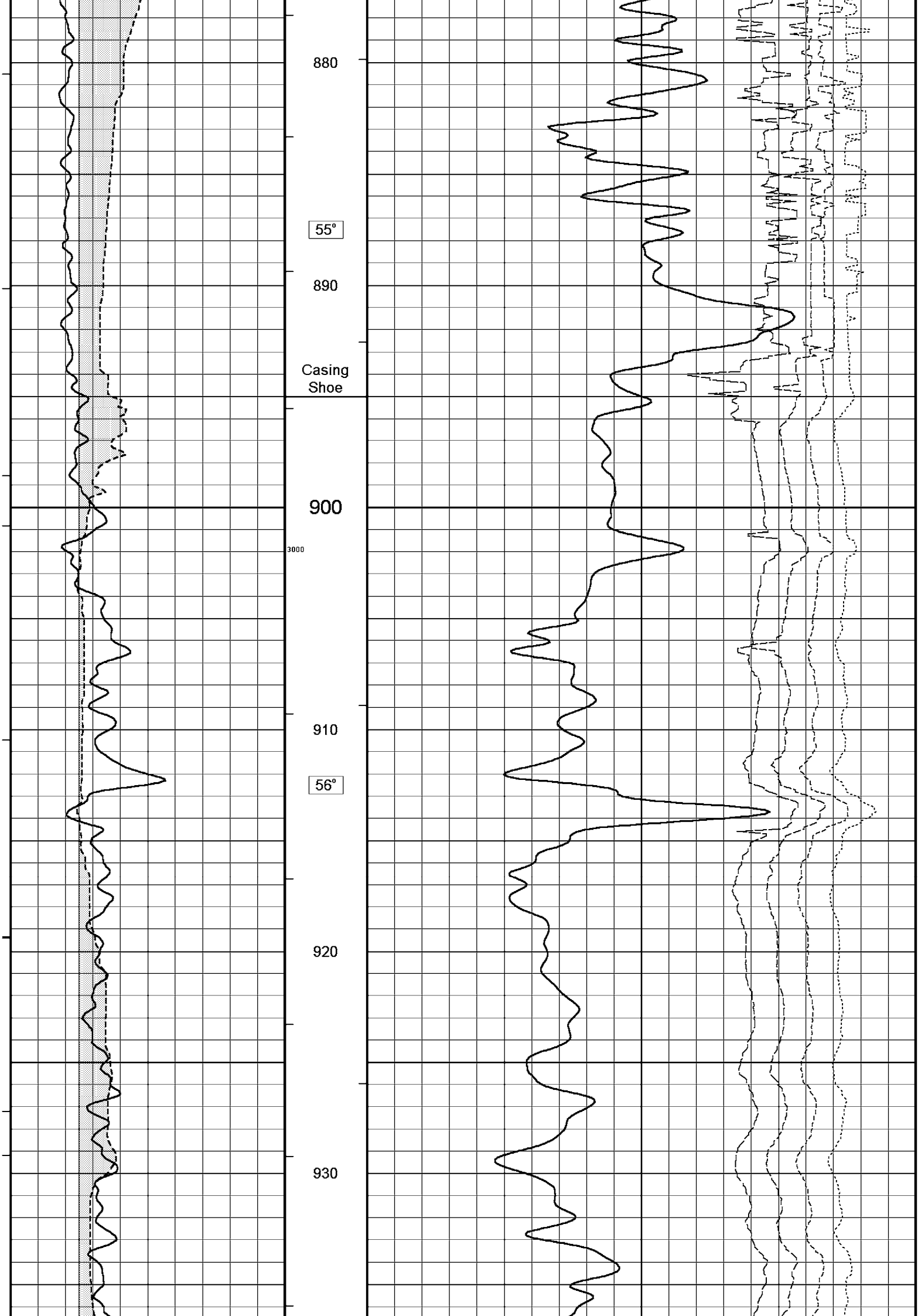
REMARKS
RIG: NABORS 453
5" SHUTTLE/MEMORY COMPACT OPERATION. CREW: R TENCH , B MOSS , B GOODWIN, K LUCIEER.
ALL LOGS DEPTH CORRELATED TO ANADRILL GAMMA LOG.
DURING TRIP IN, DRILL PIPE BRIDGED AT 2071m, REQUIRED 30RPM AND 10BLS FLOW TO REACH TD
MAX. TEMPERATURE: 83 DEG C AT 2763m MD MAX. INCLINATION: 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

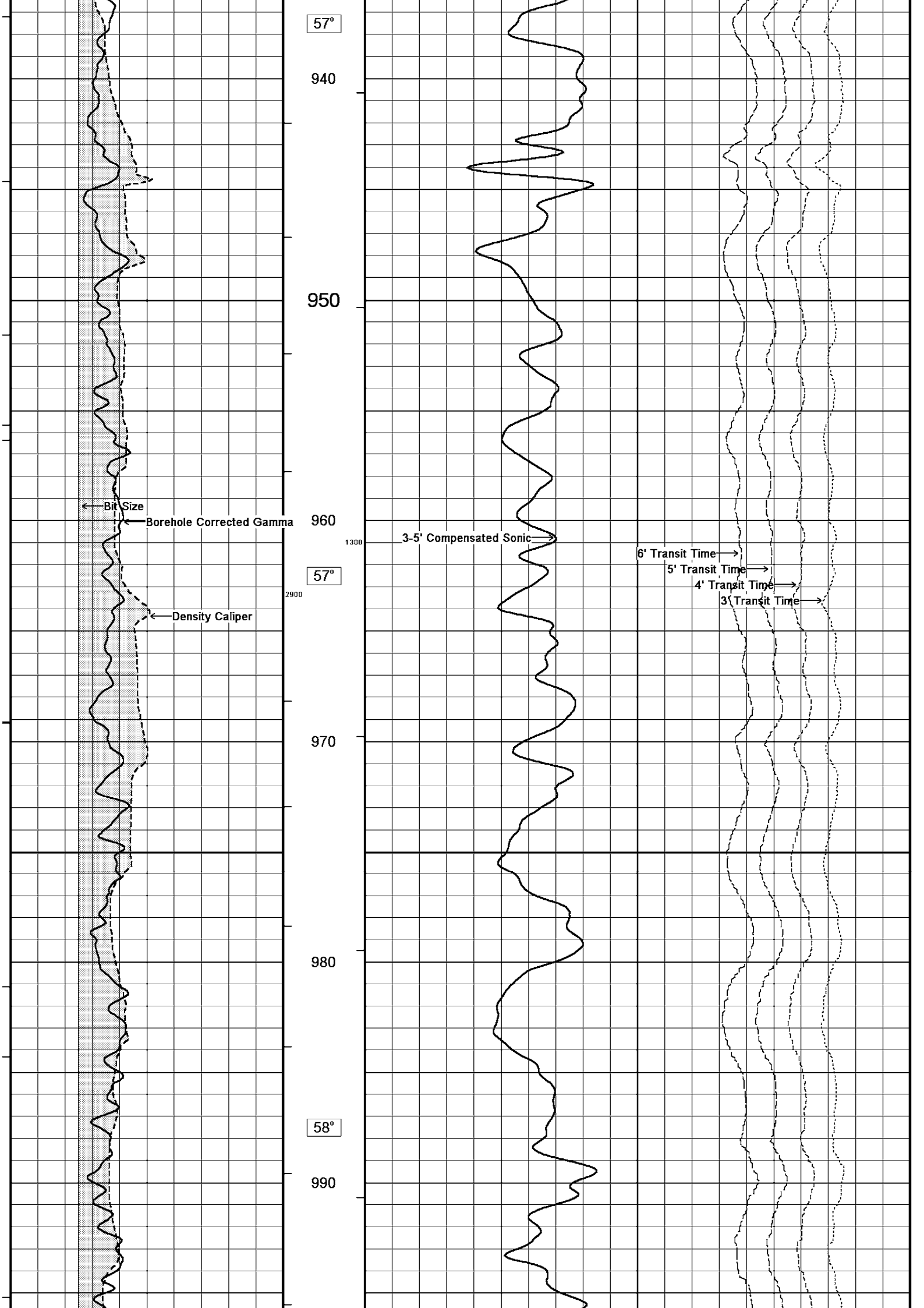
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

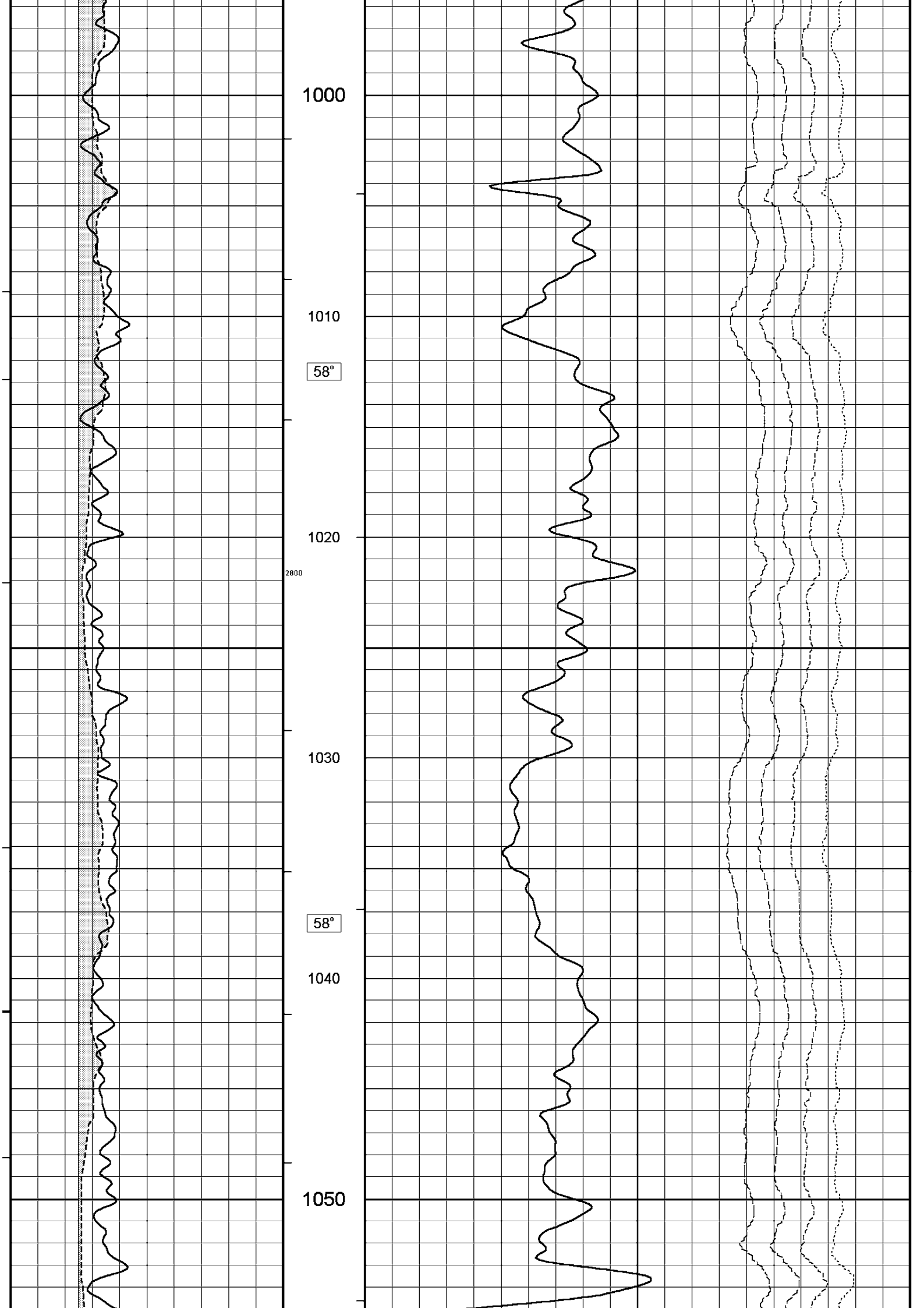
Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\BMA_A5A\FINAL DATA\BMA_A5A_MAIN_LOG_MSS.dta
System Configuration Dates: Logged 17-JUN-2004: Processed 23-AUG-2004: Plotted 23-AUG-2004:

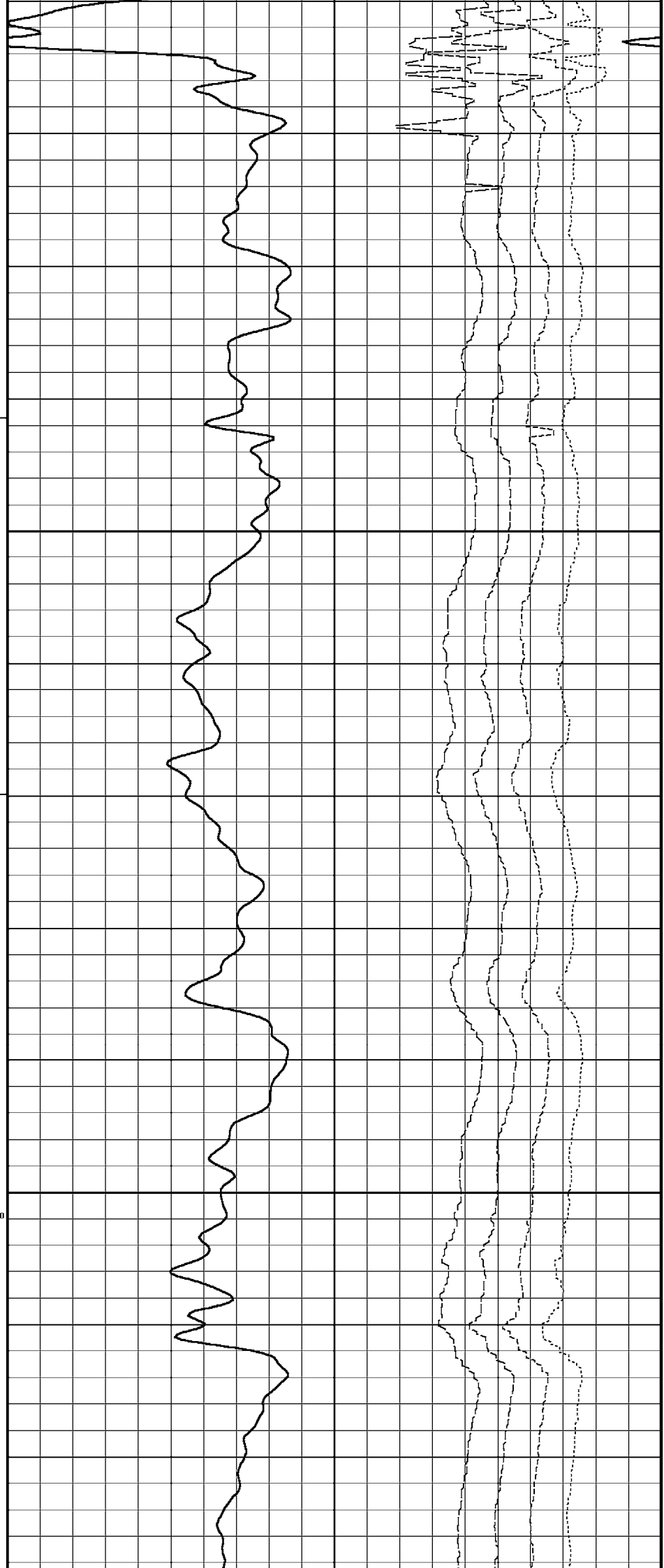
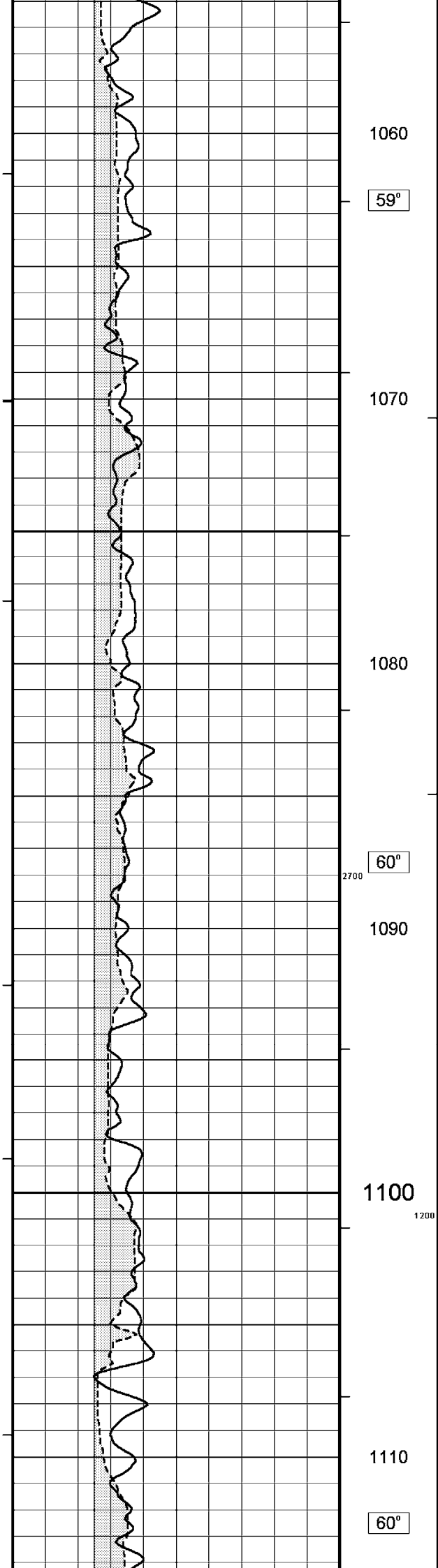
Plotted on 15-SEP-2005 11:15
Recorded on 17-JUN-2005 05:35

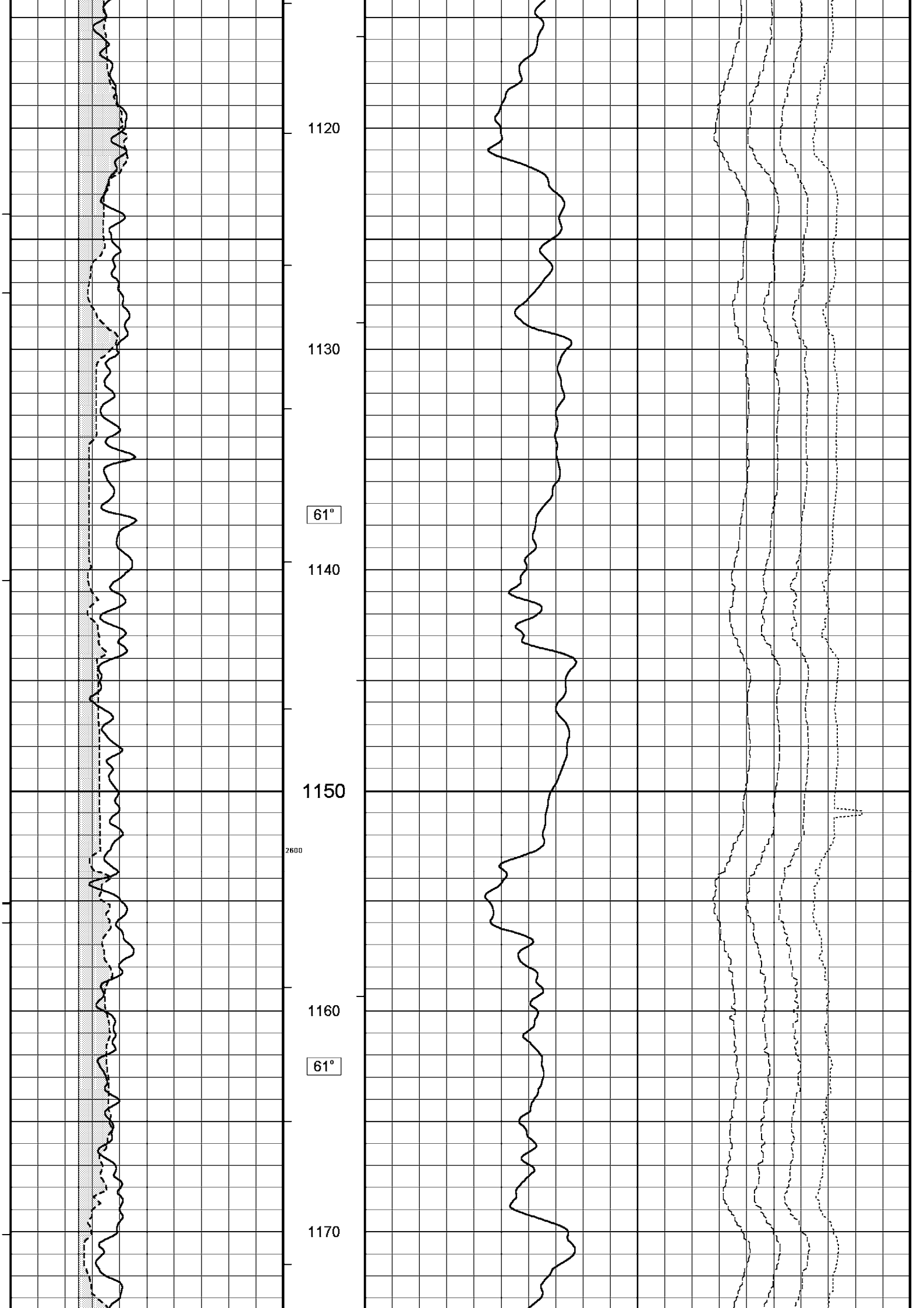


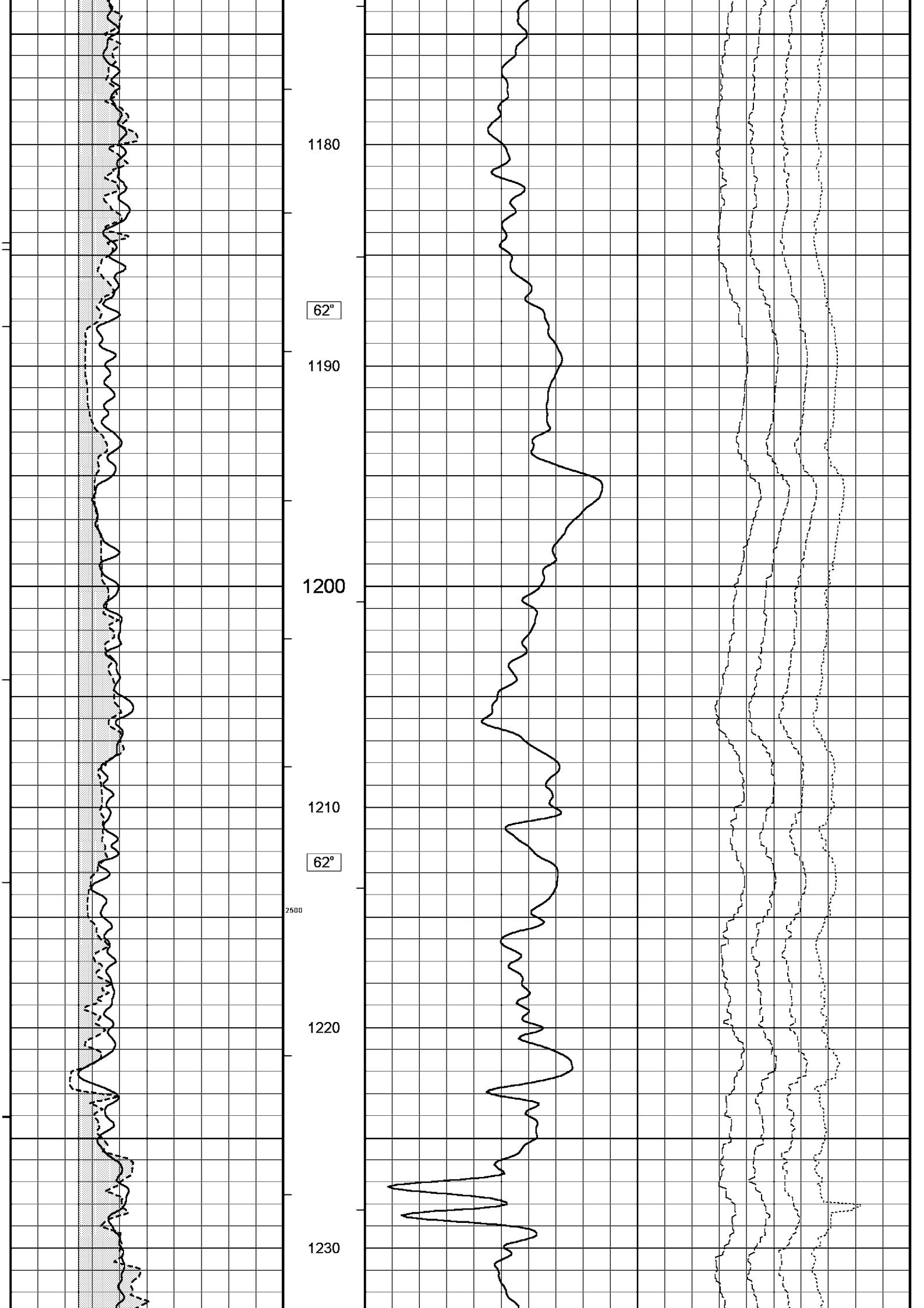


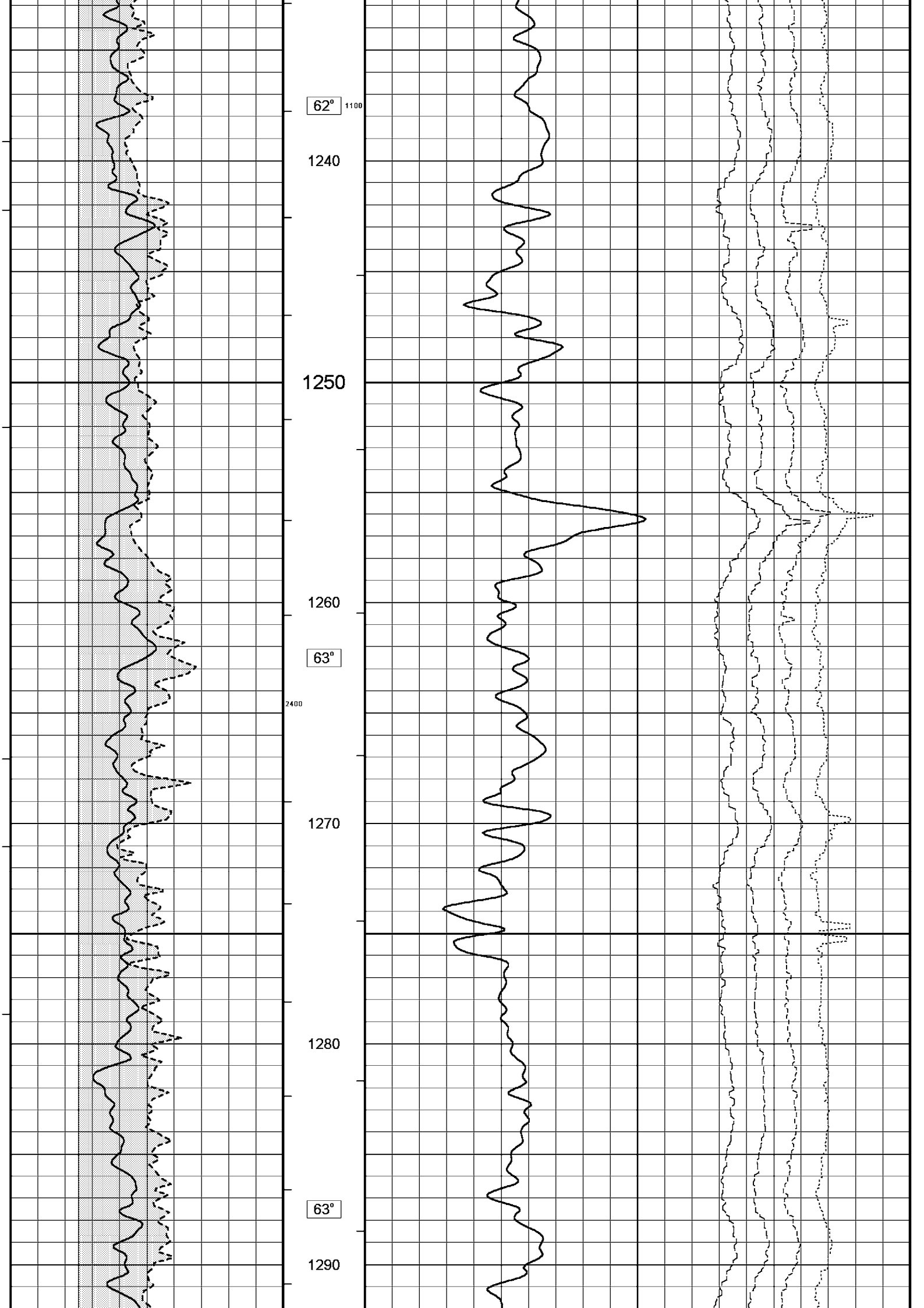


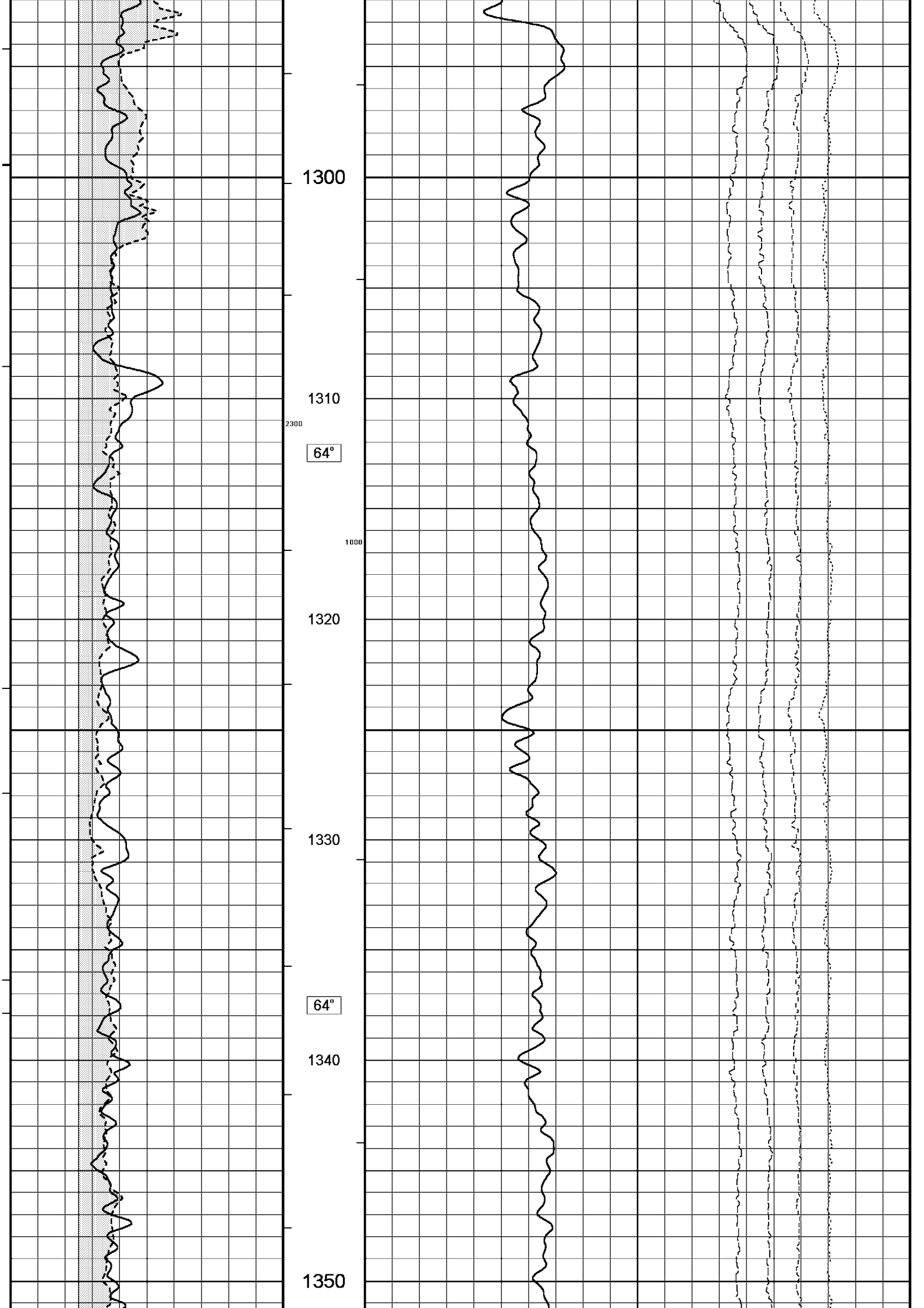


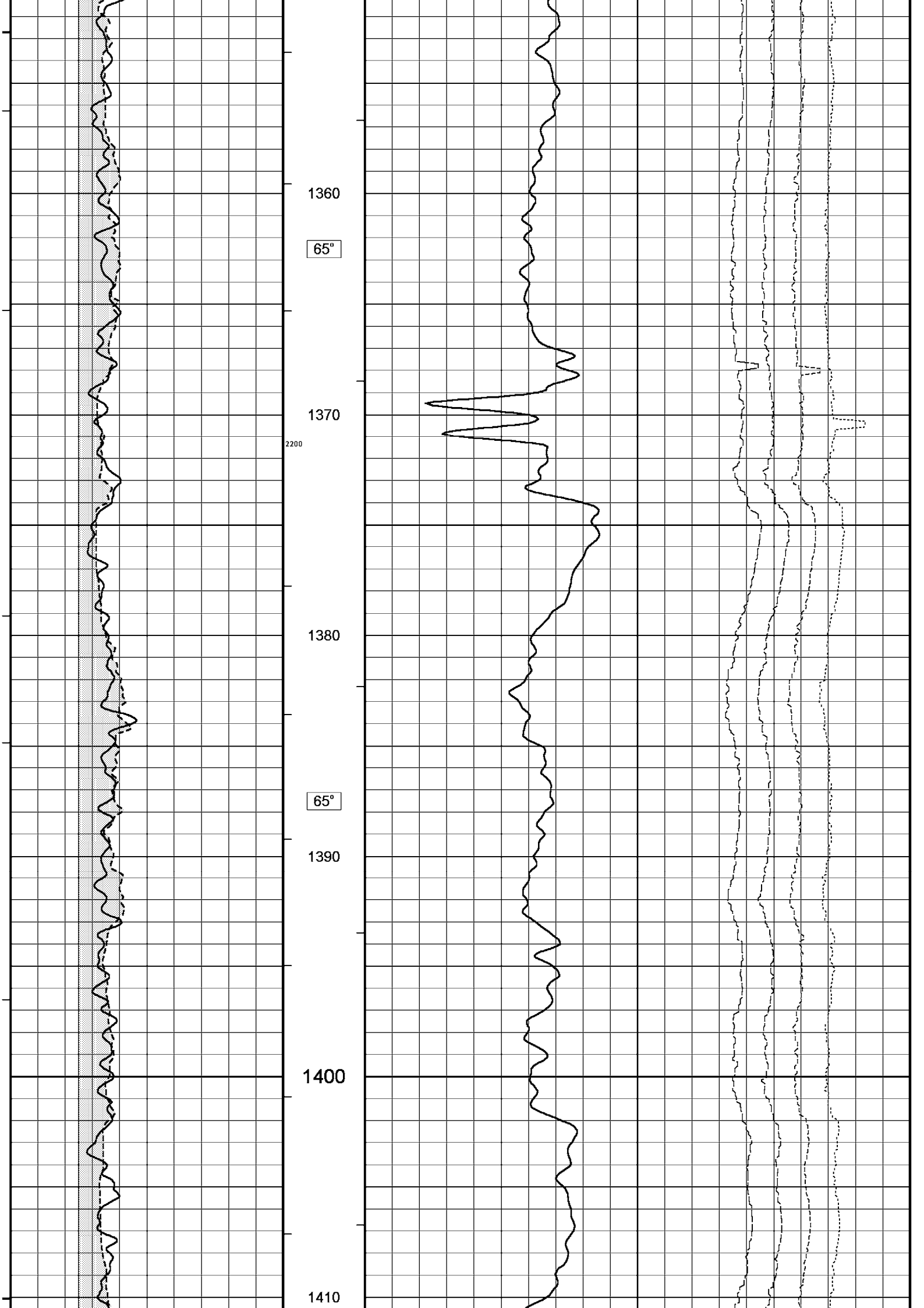


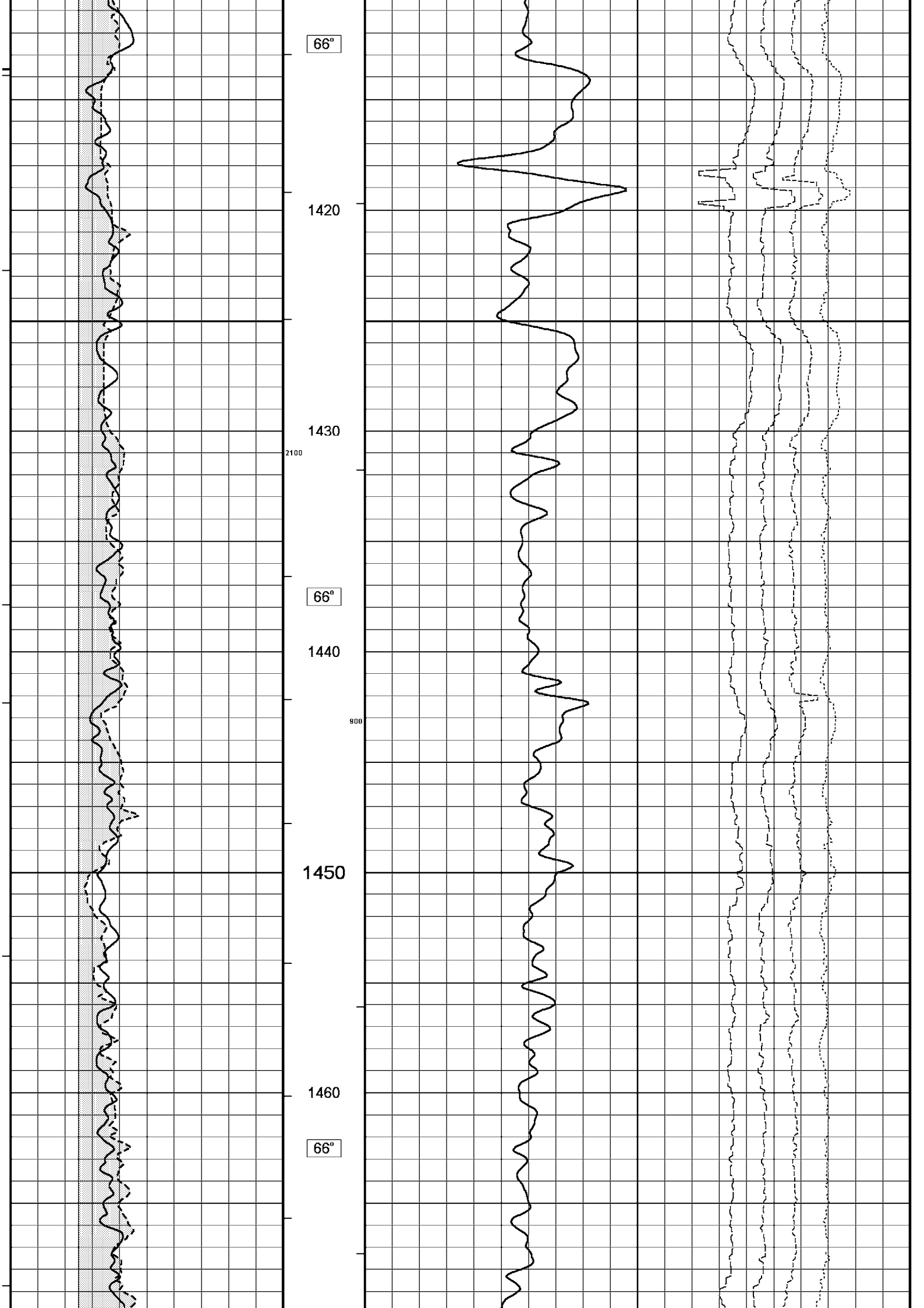


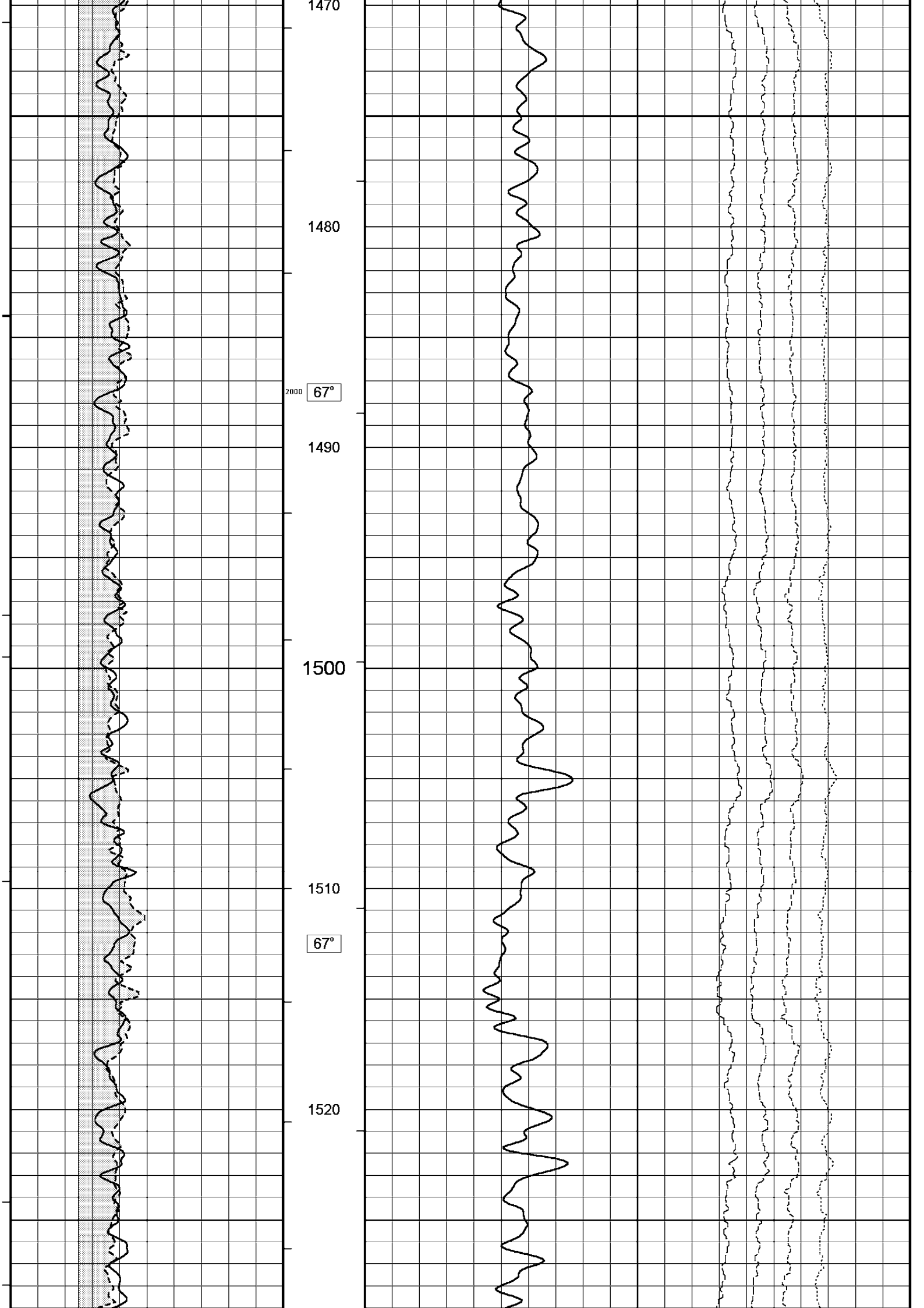


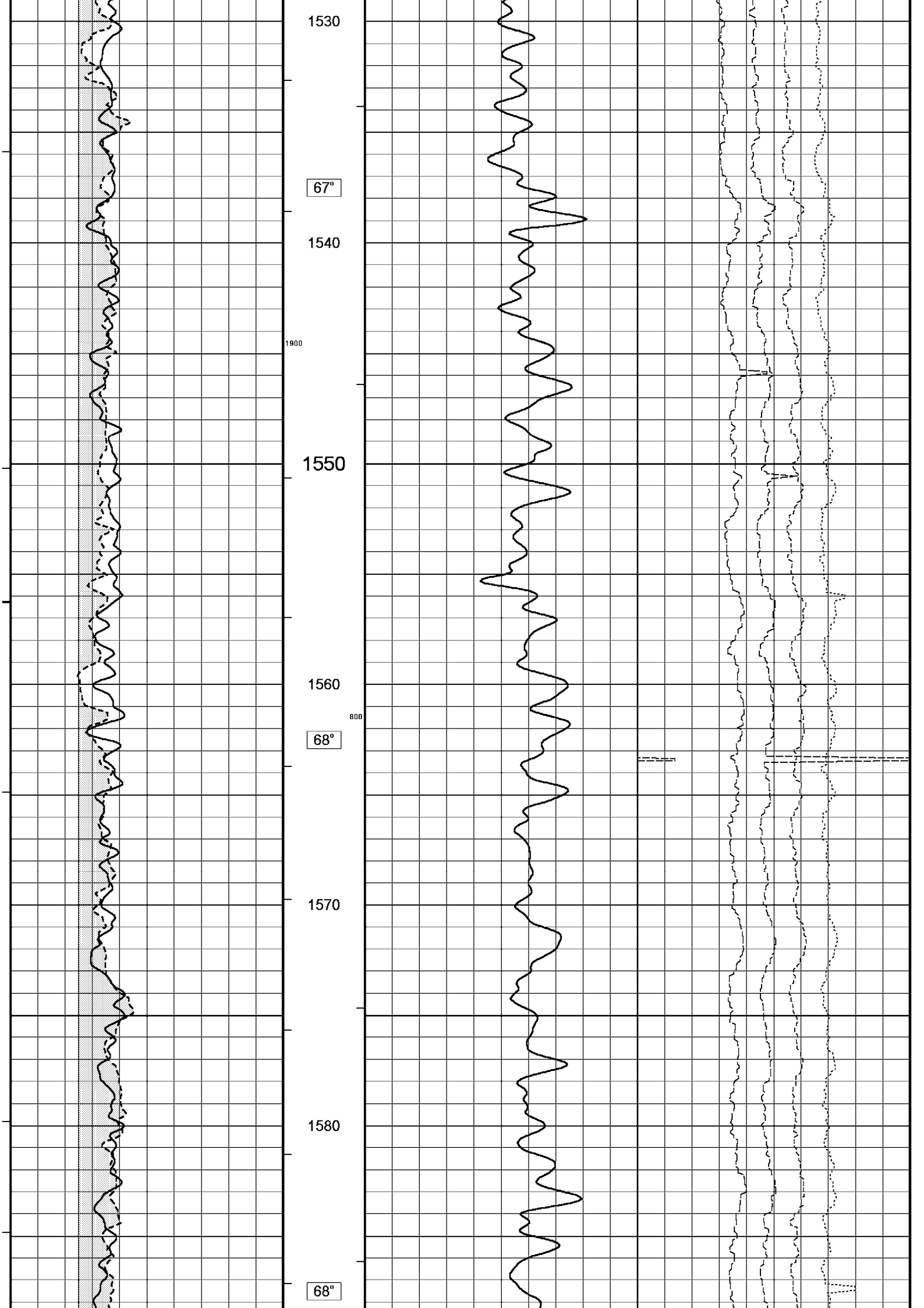


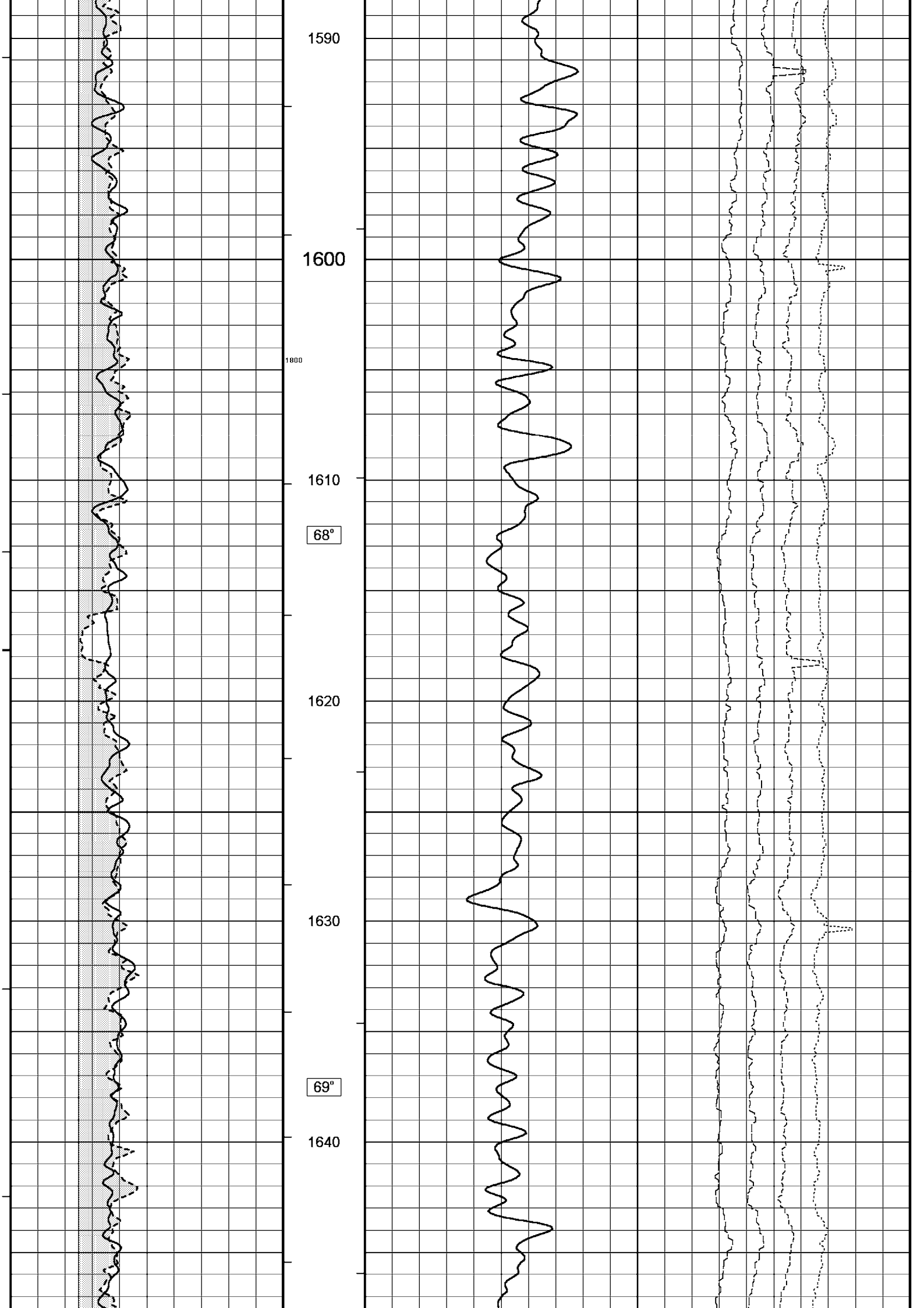


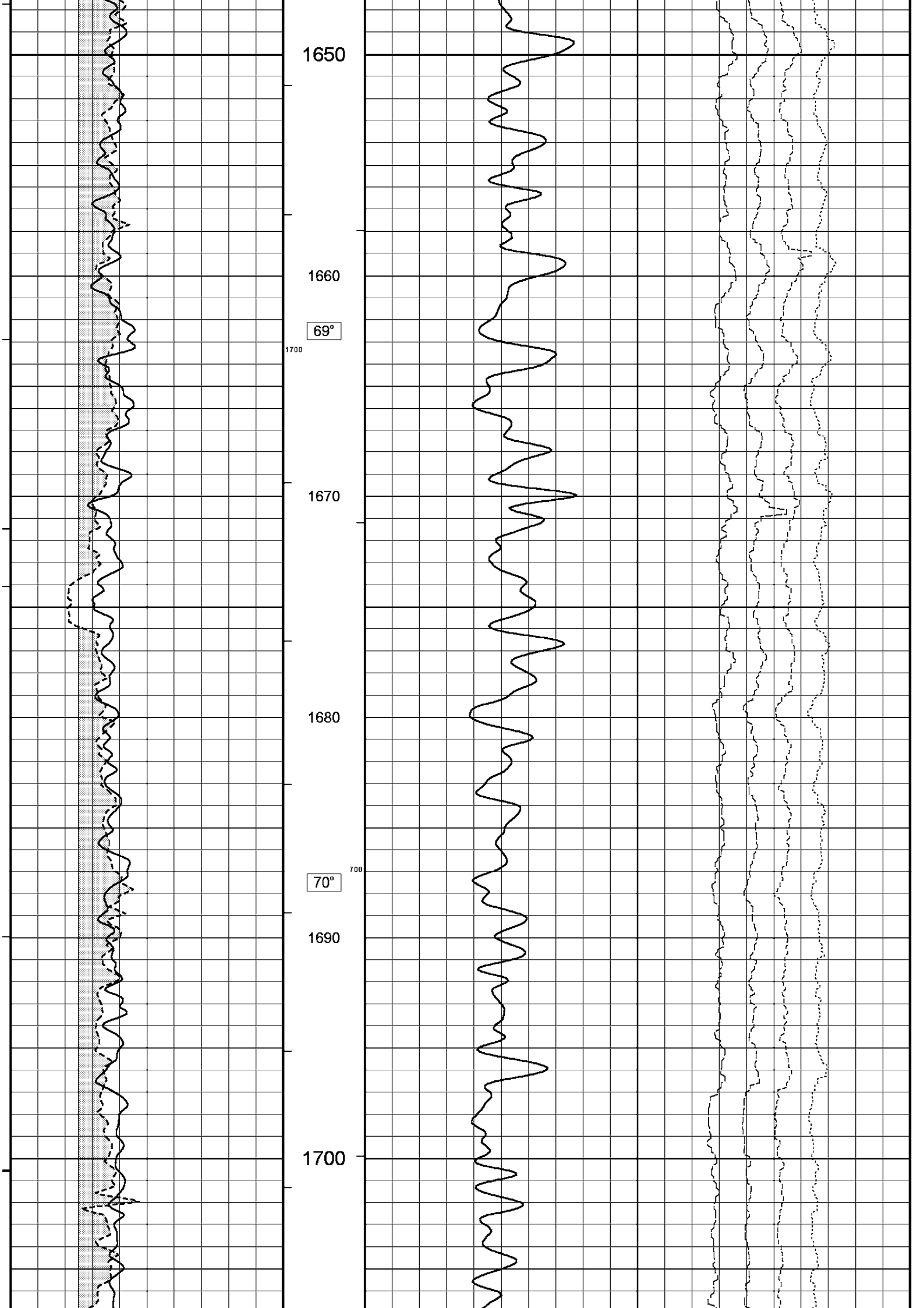


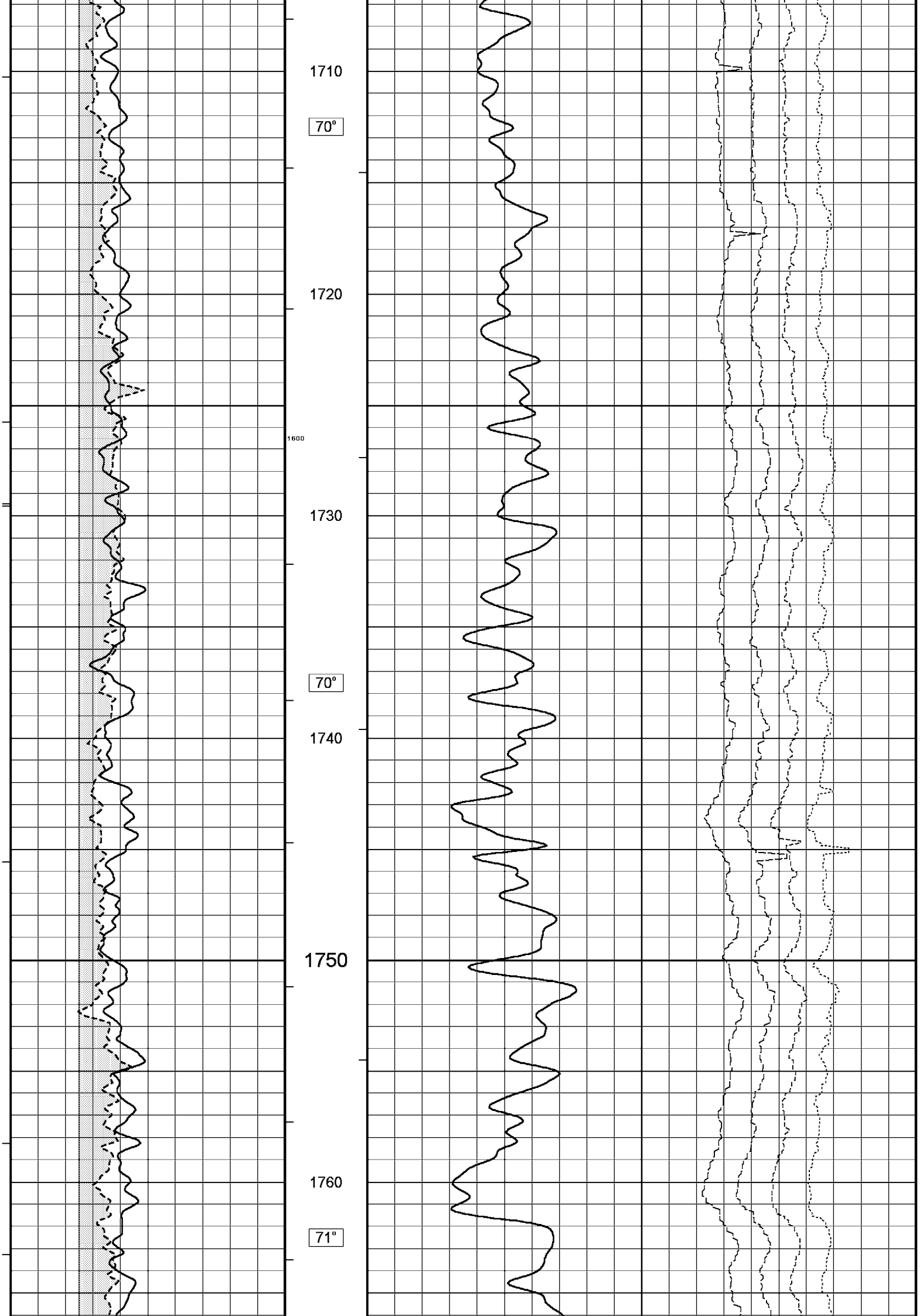


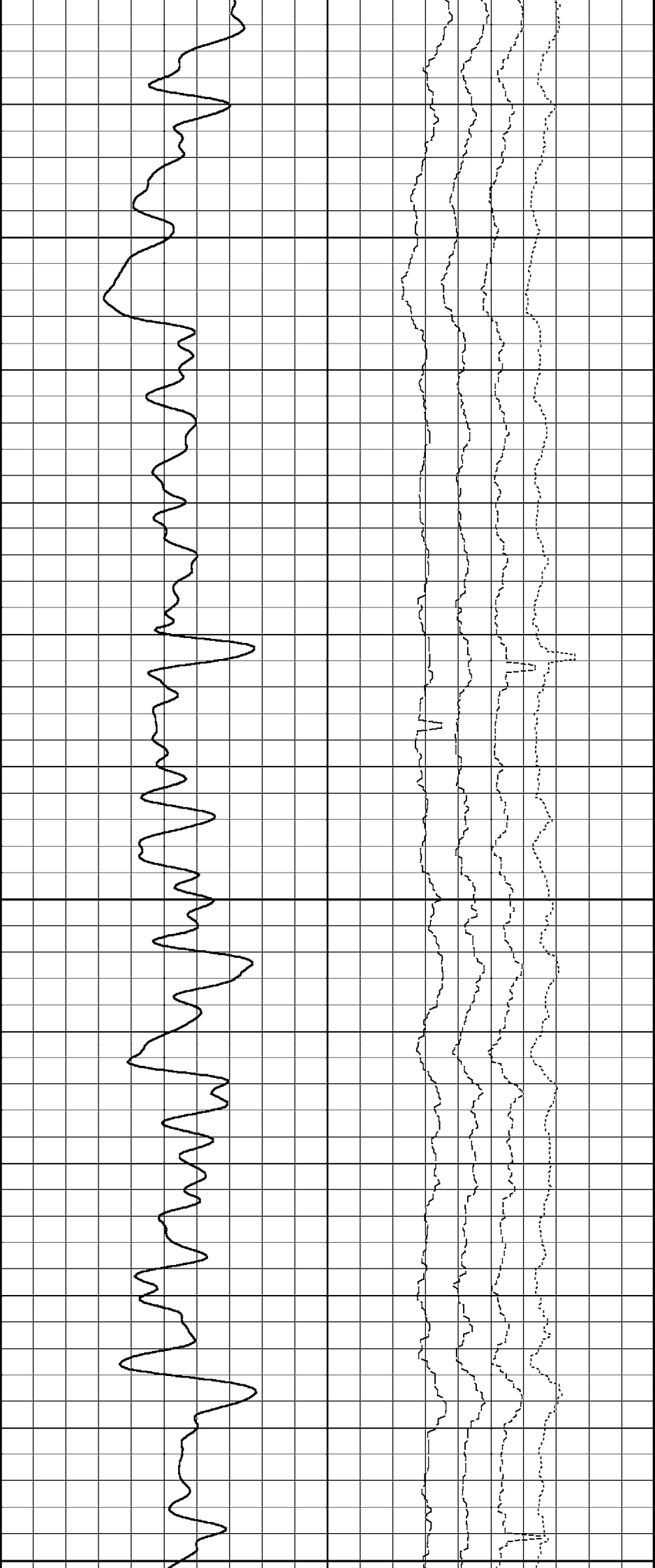
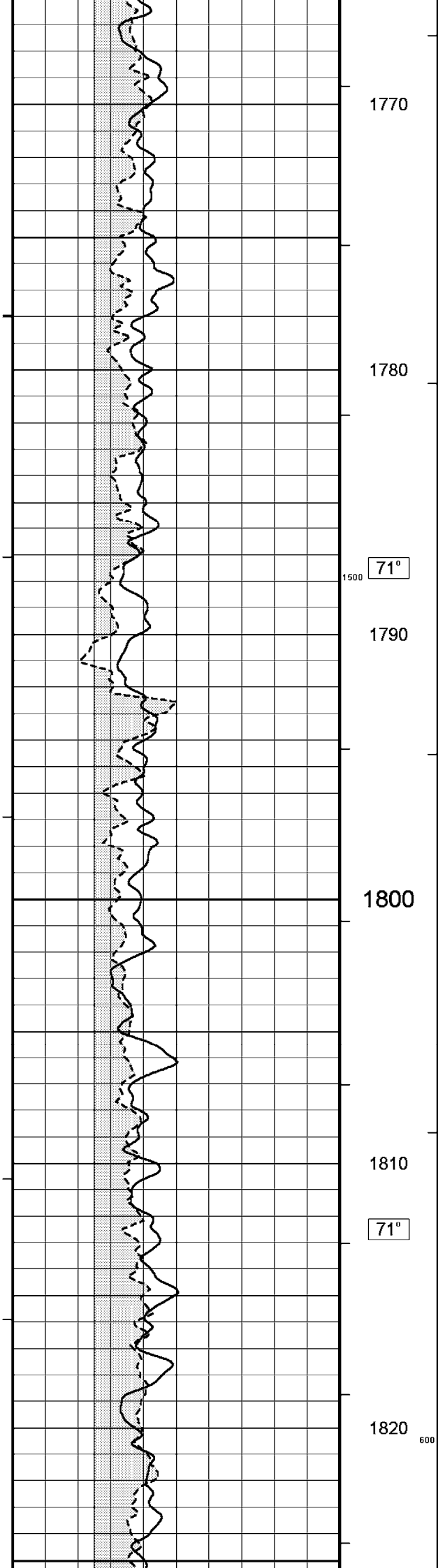


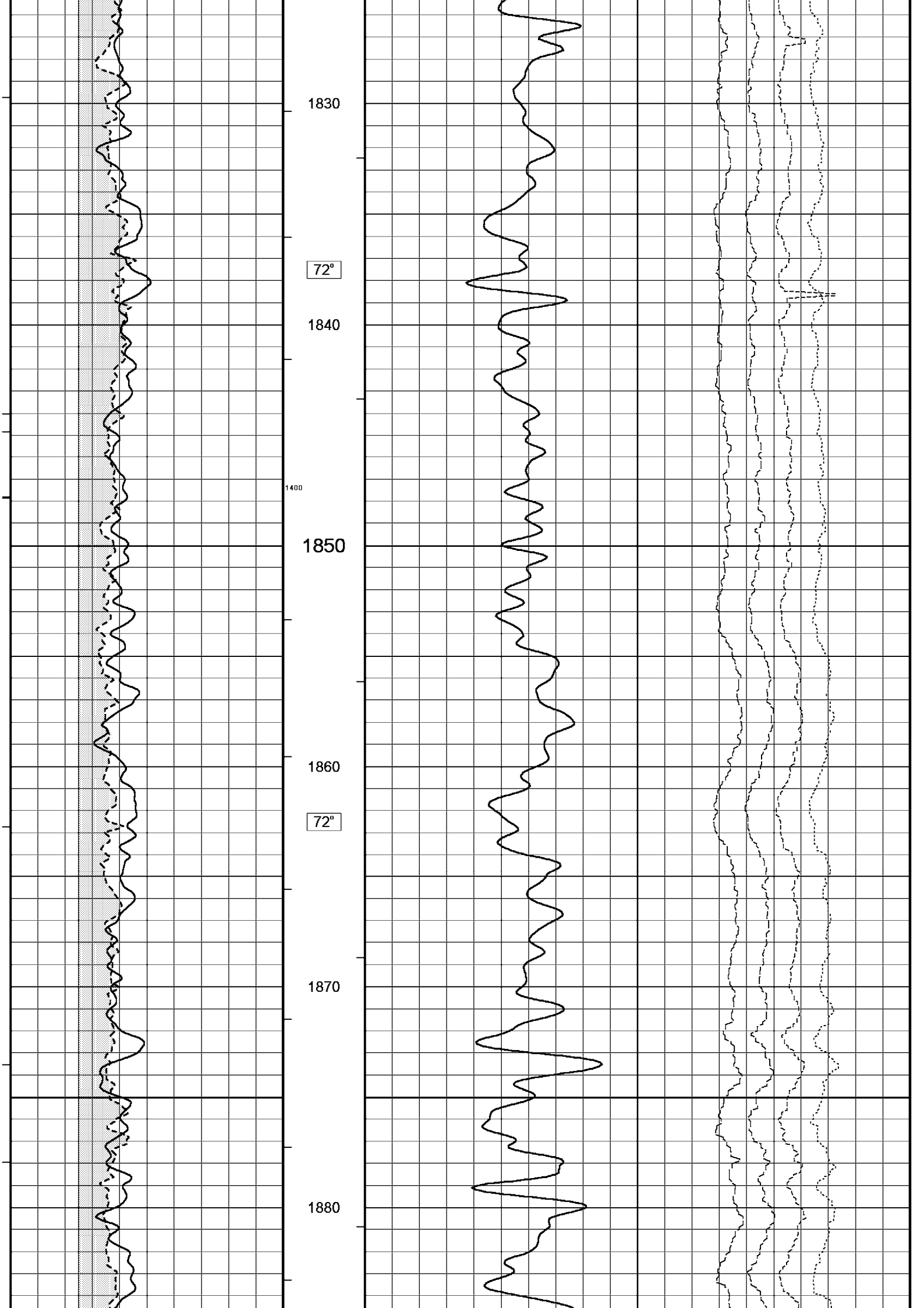


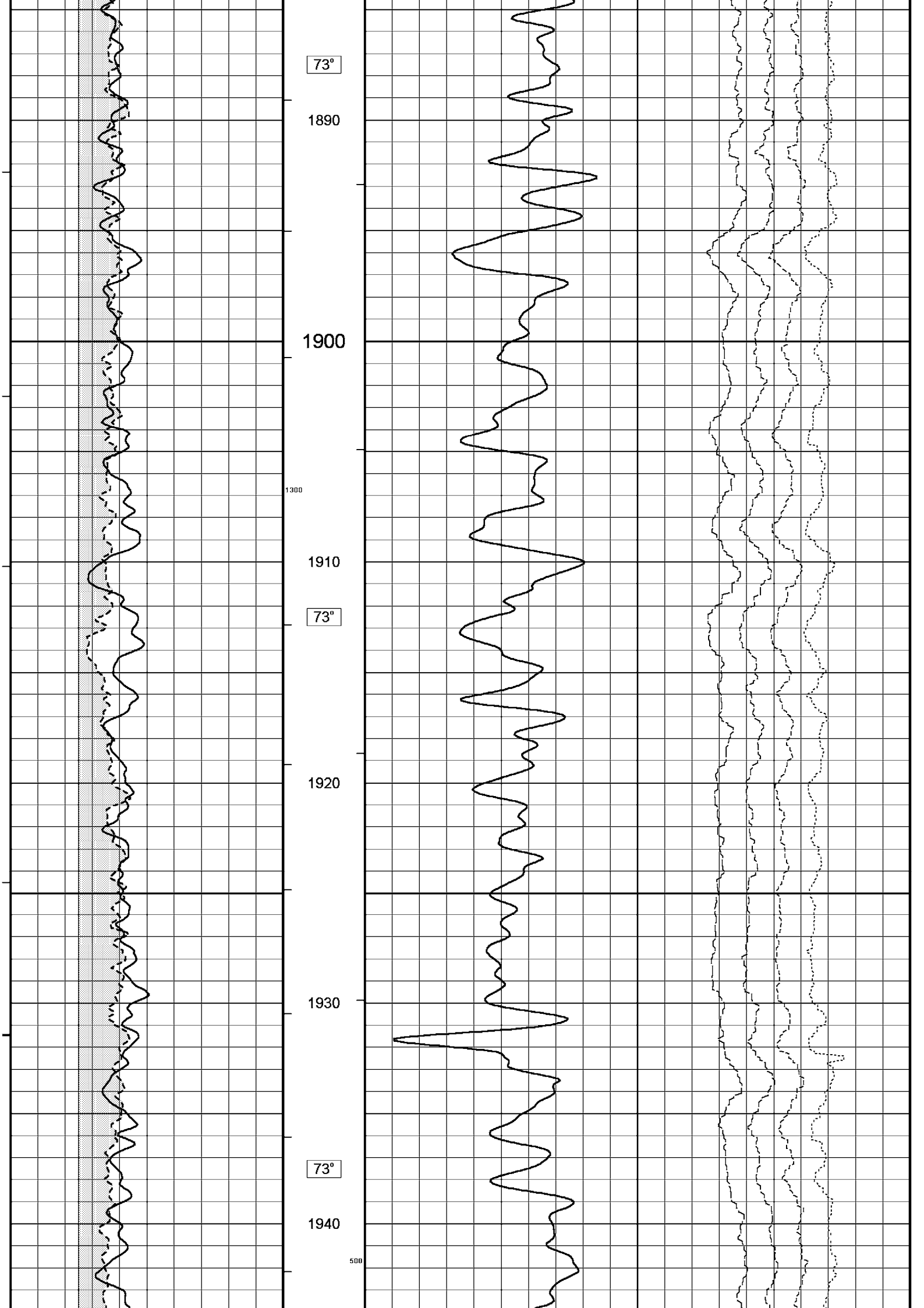


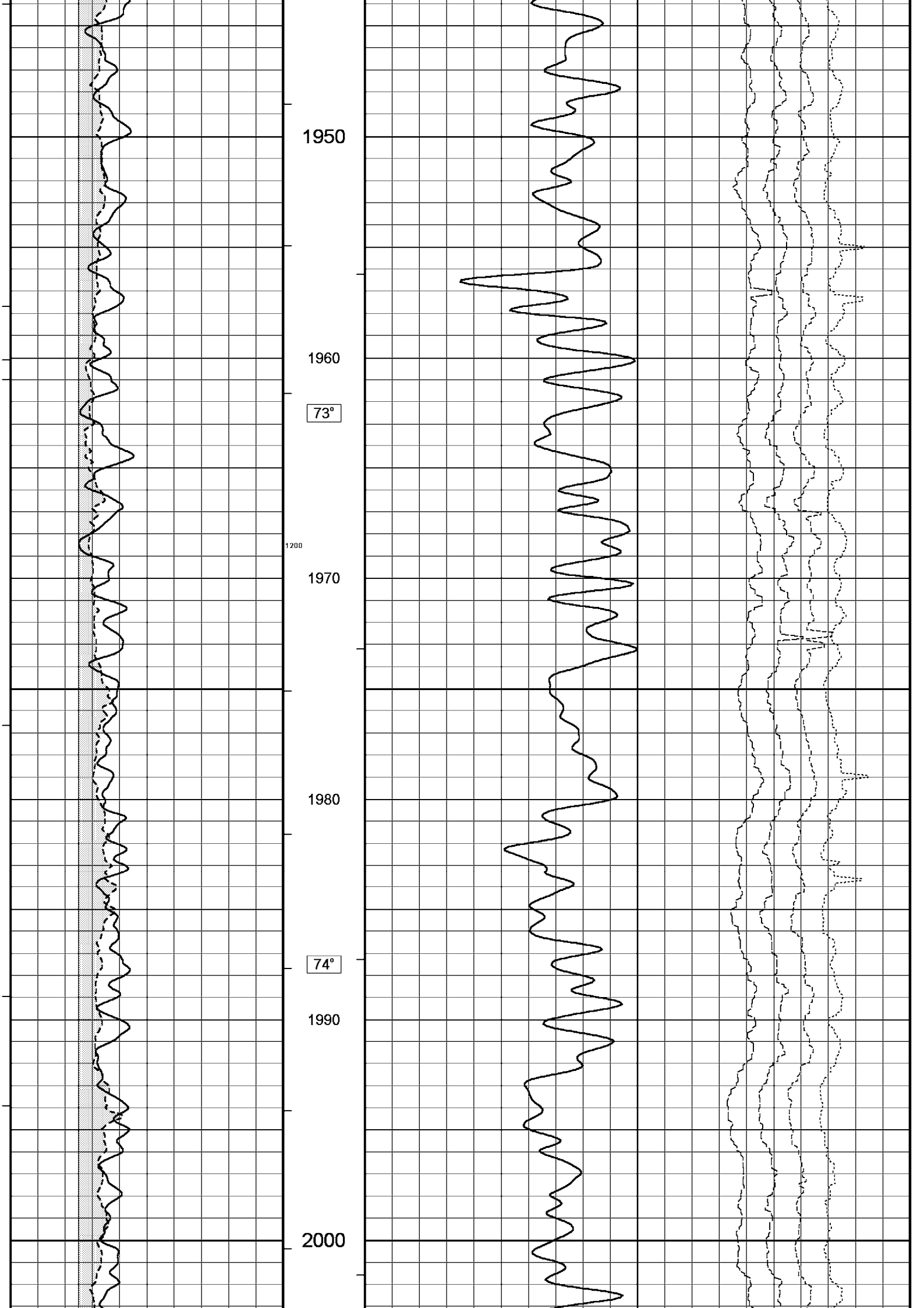


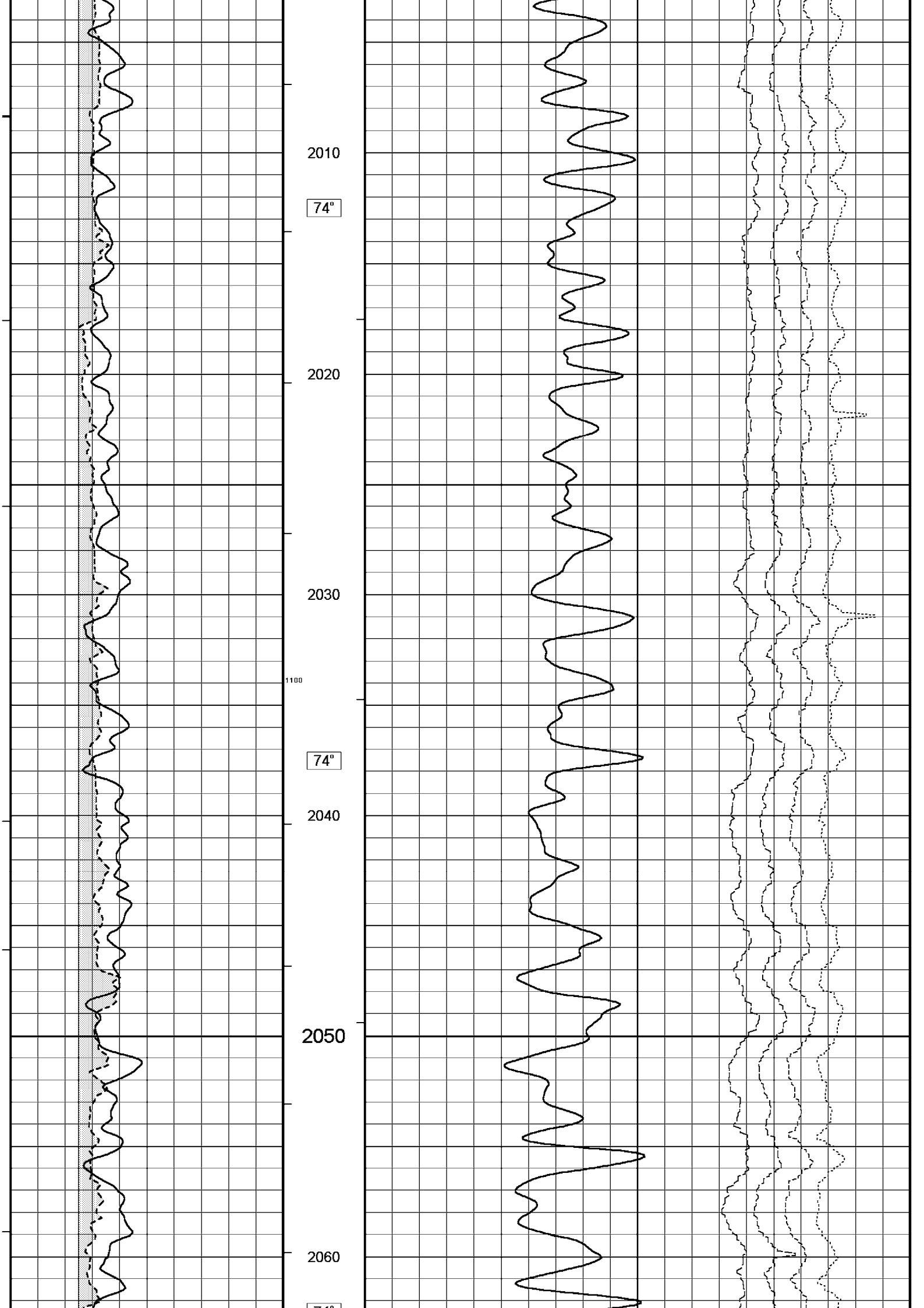


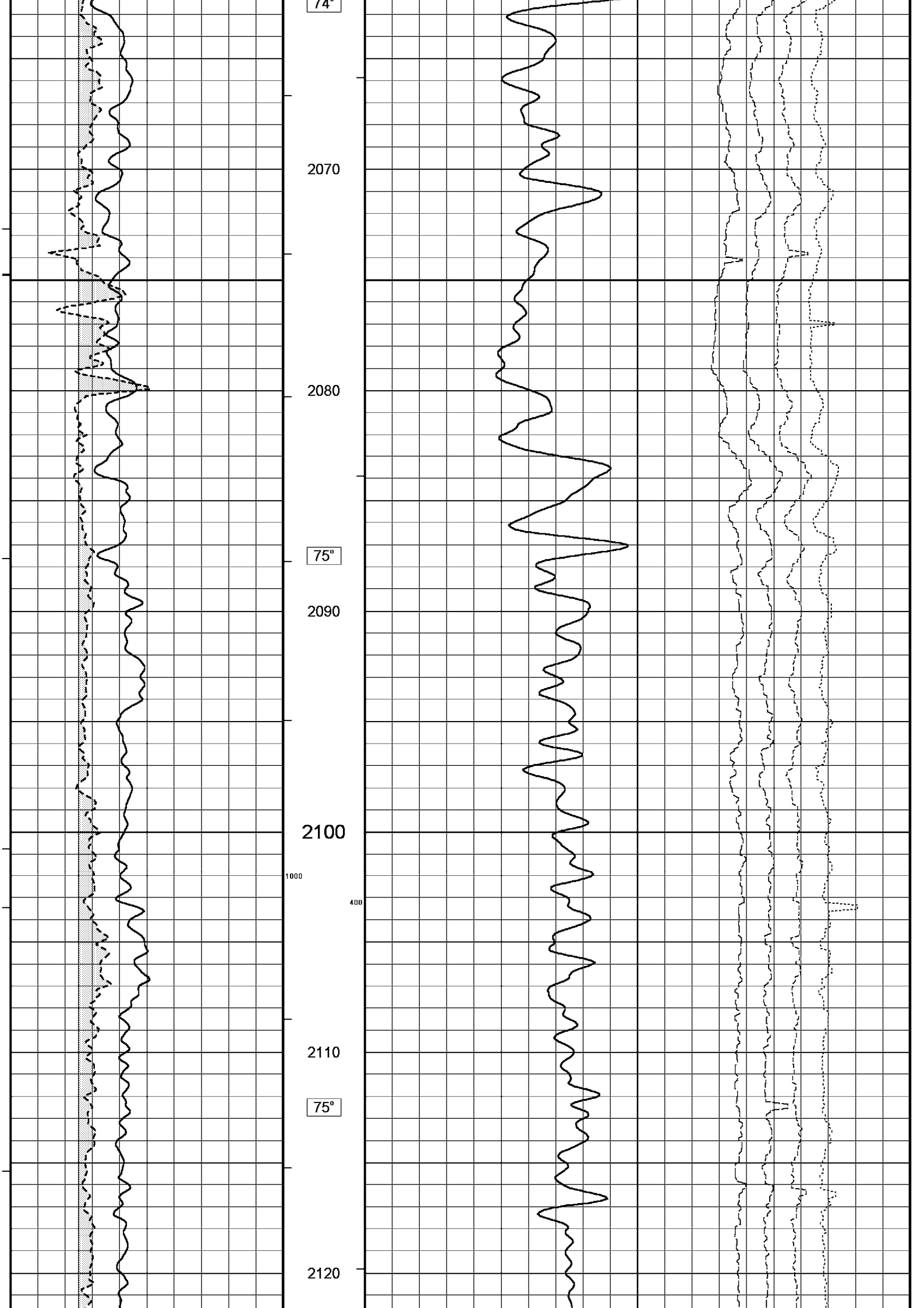


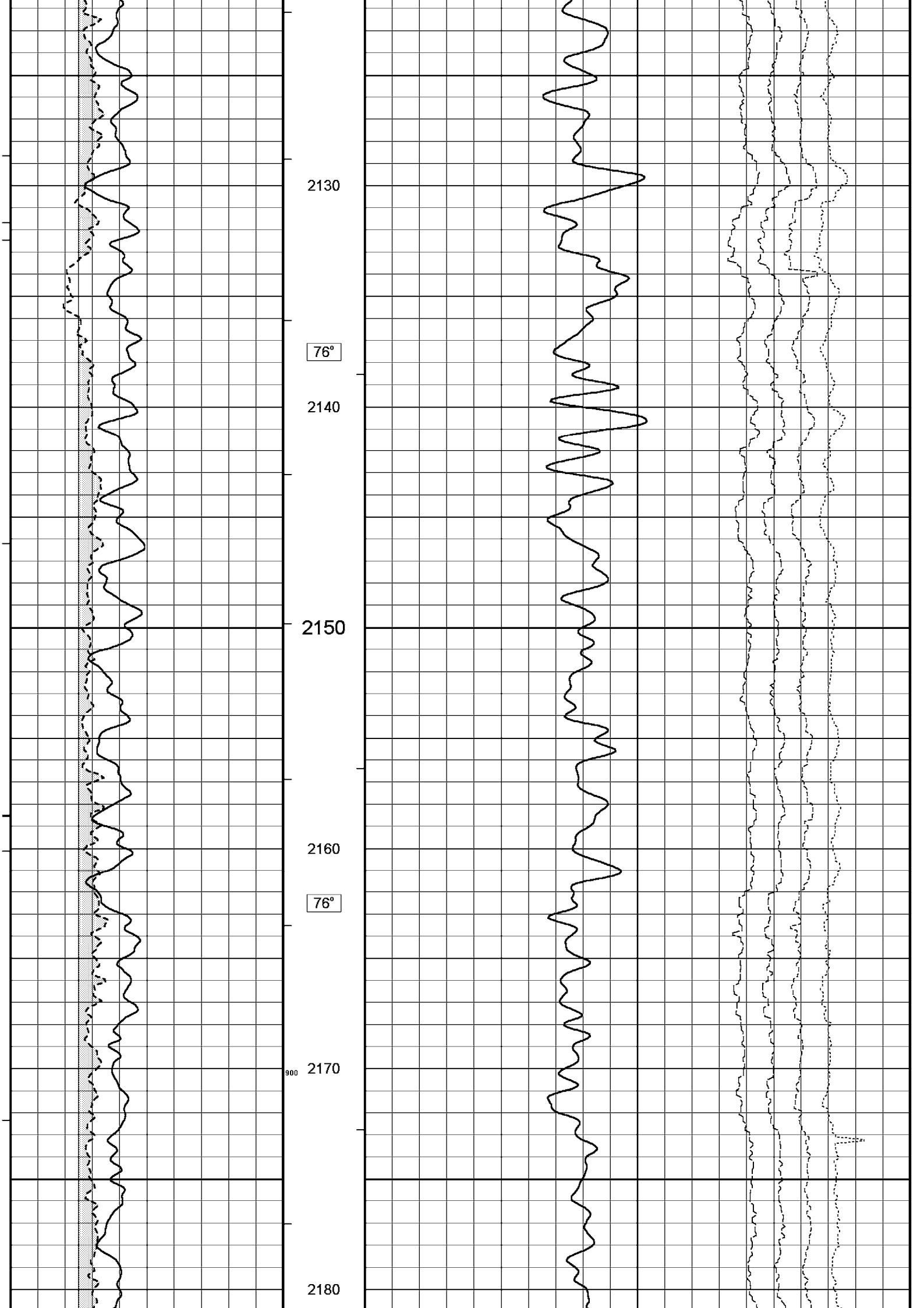


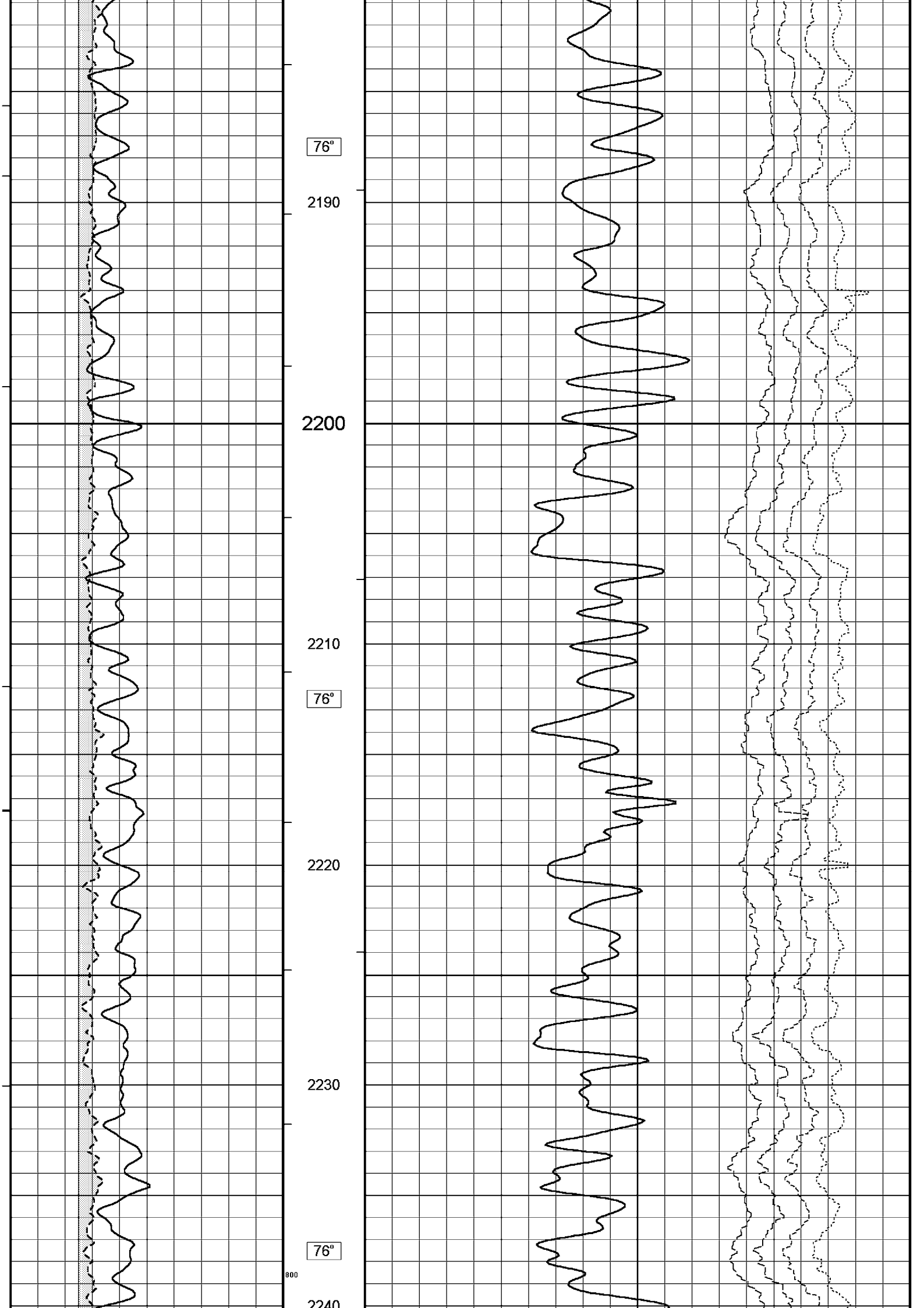


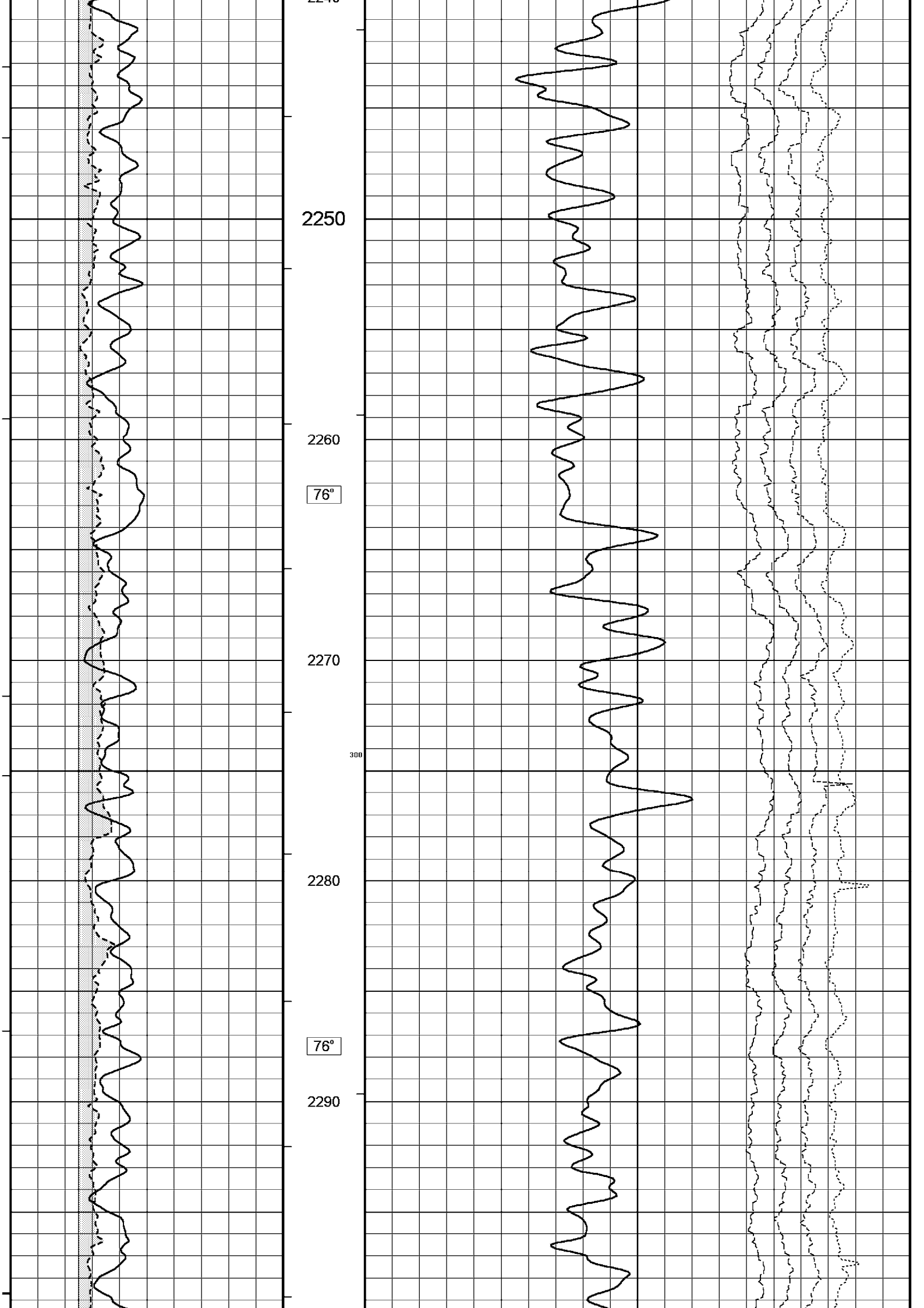


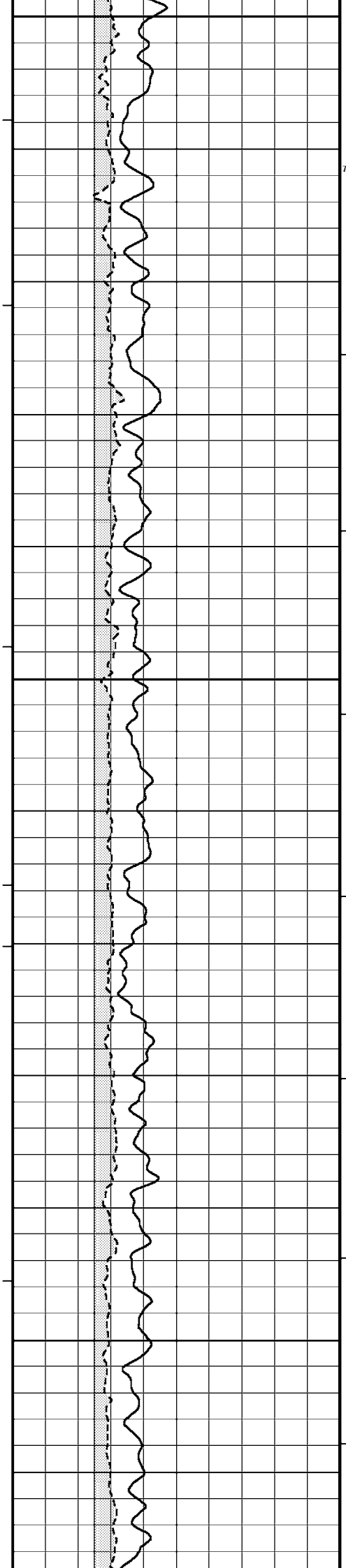












2300

700

2310

76°

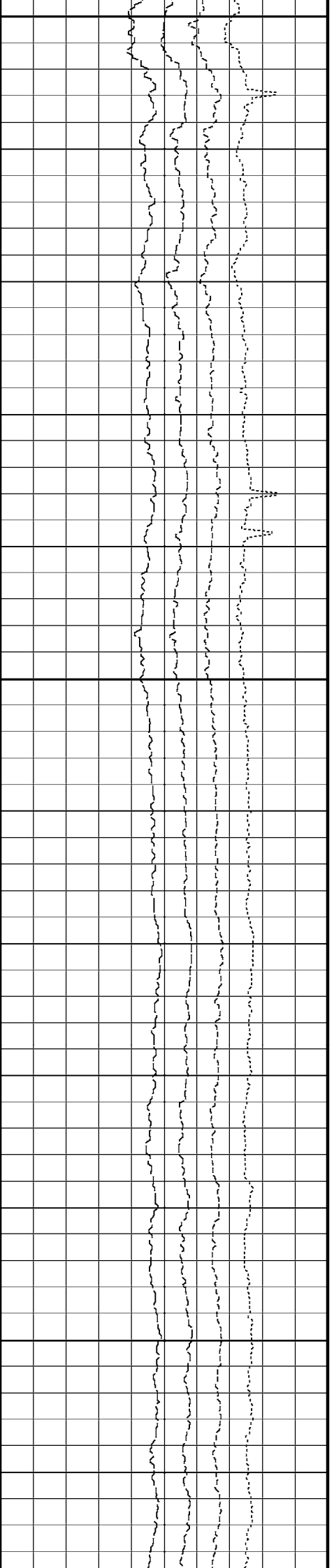
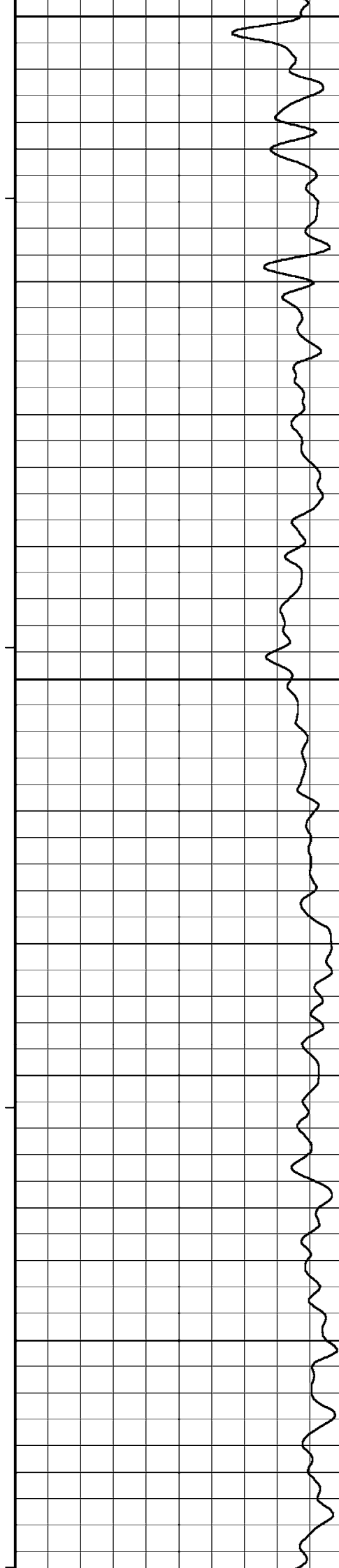
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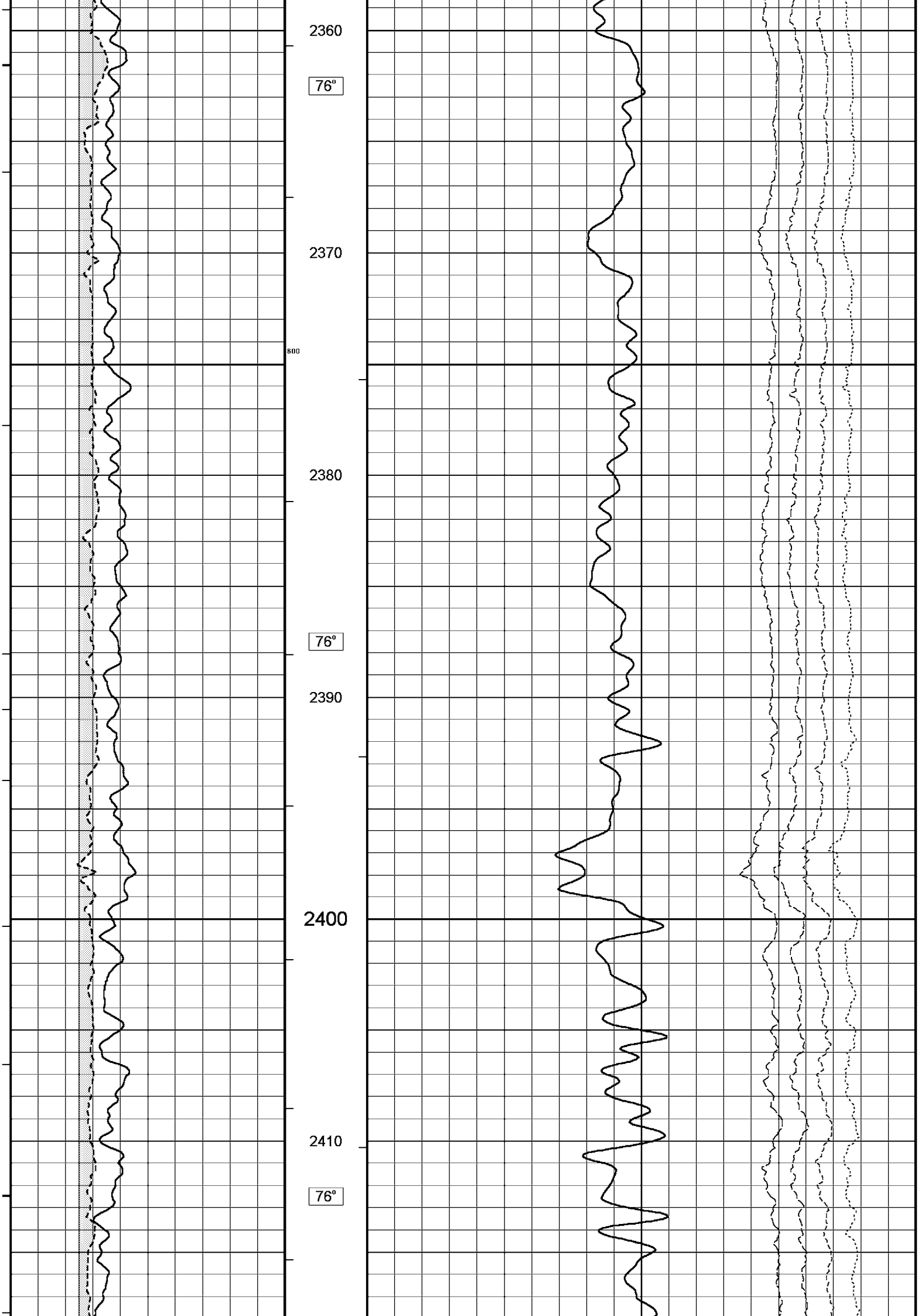
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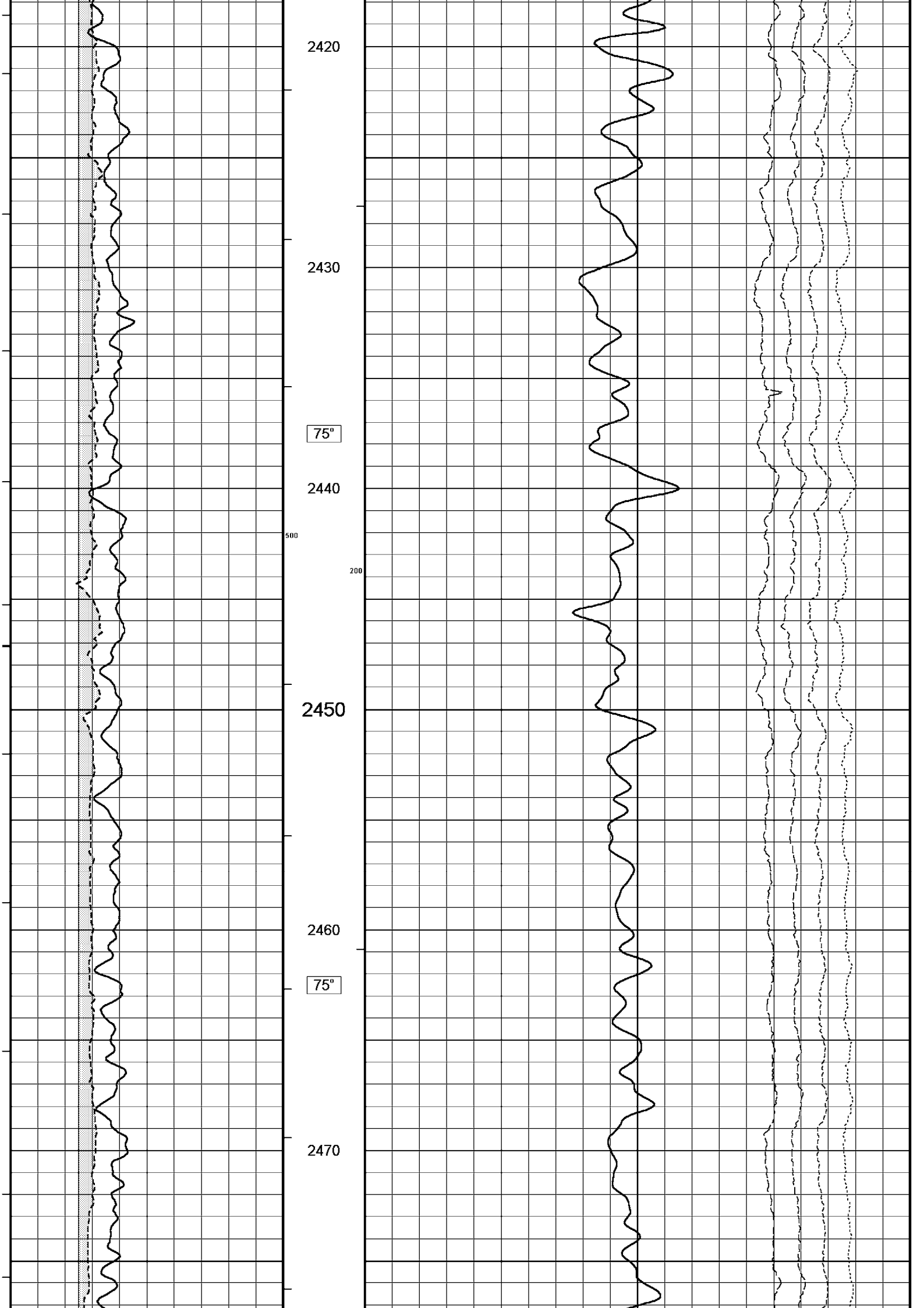
76°

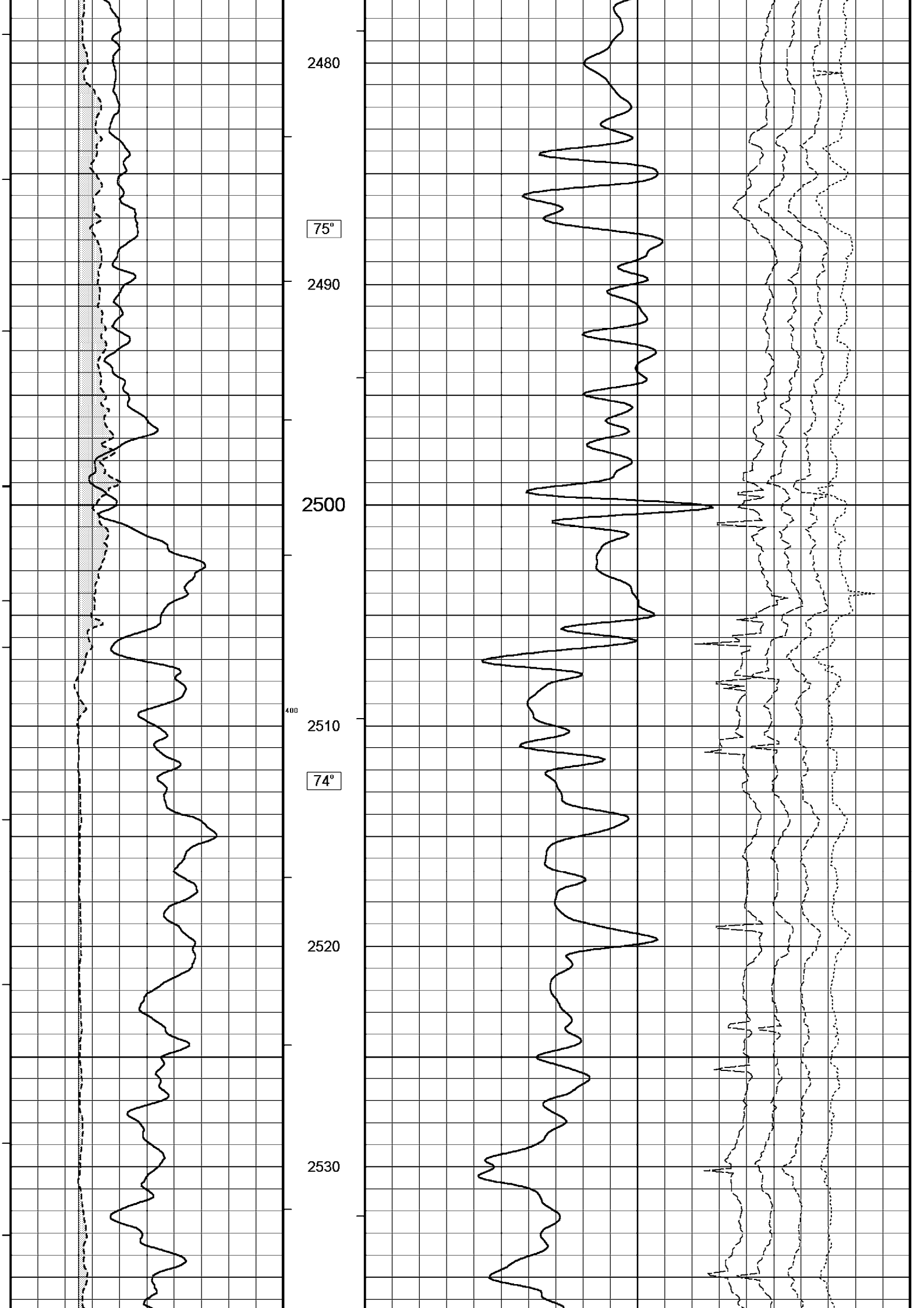
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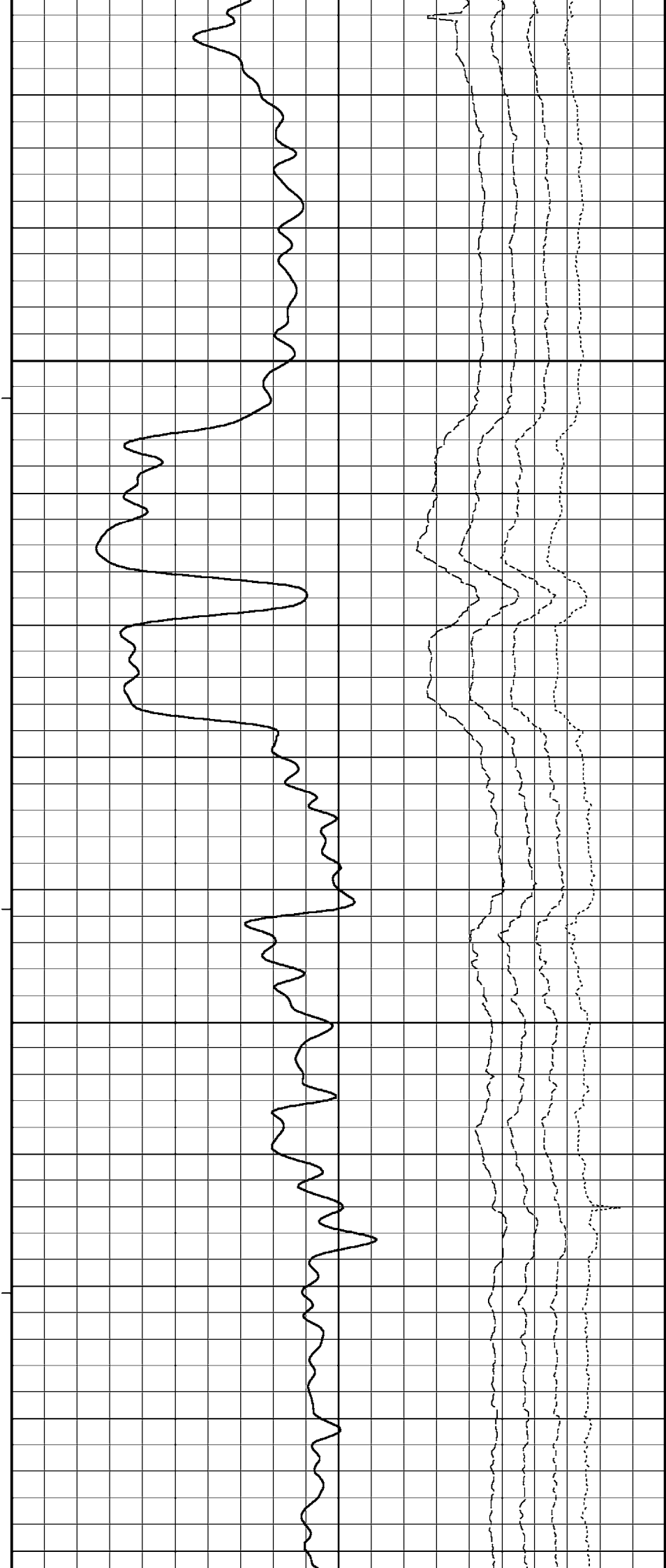
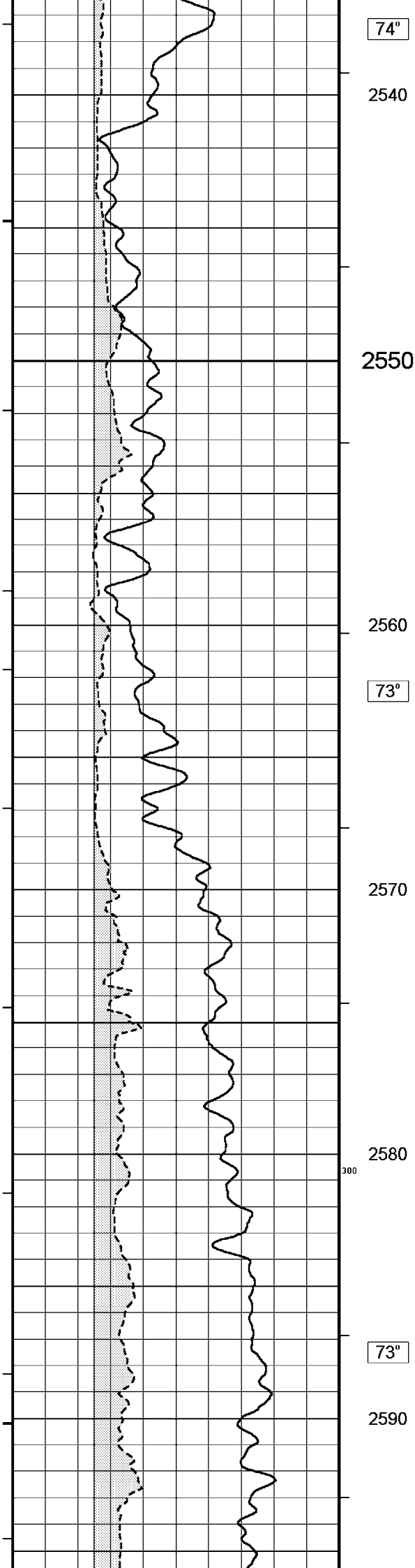
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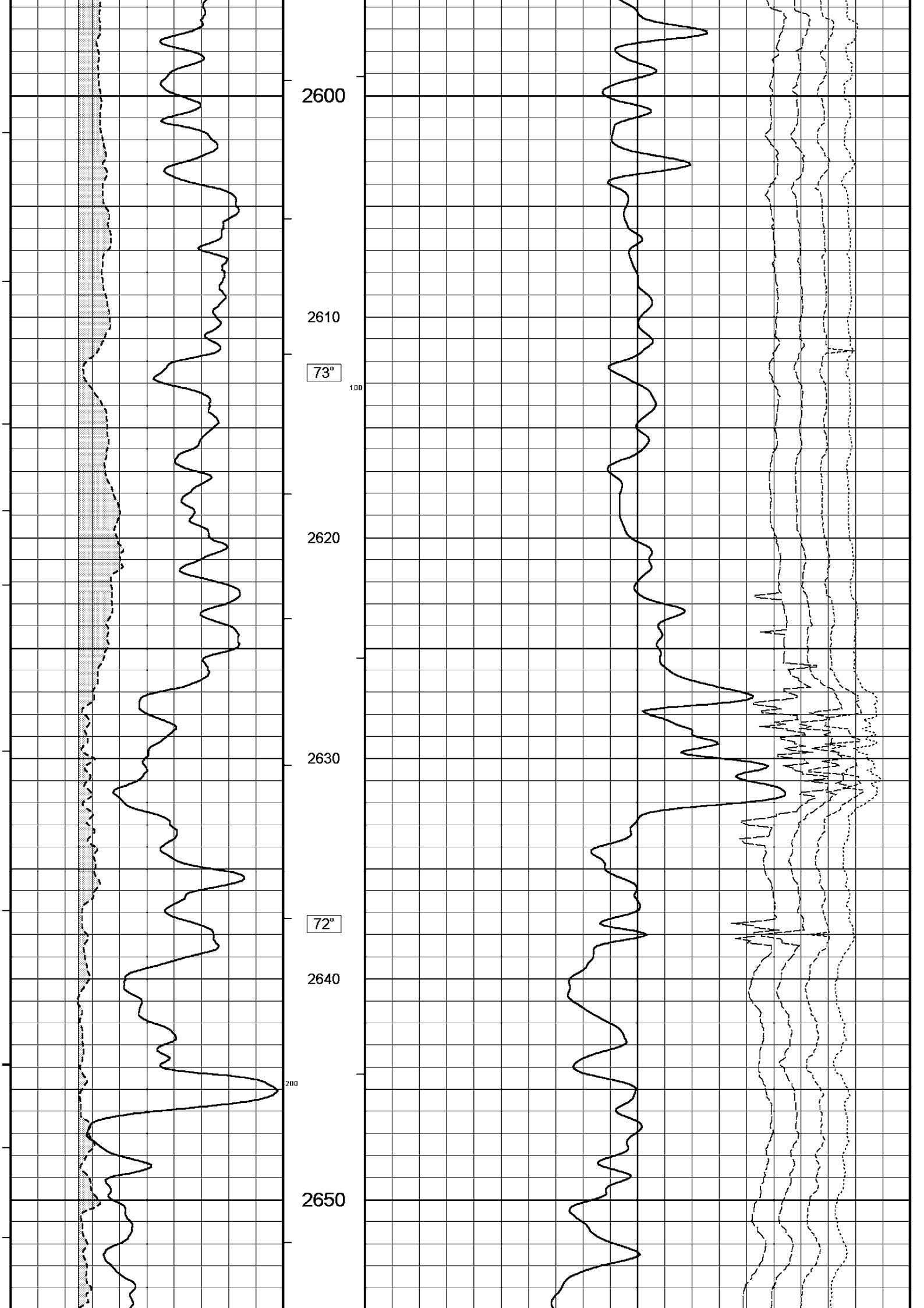


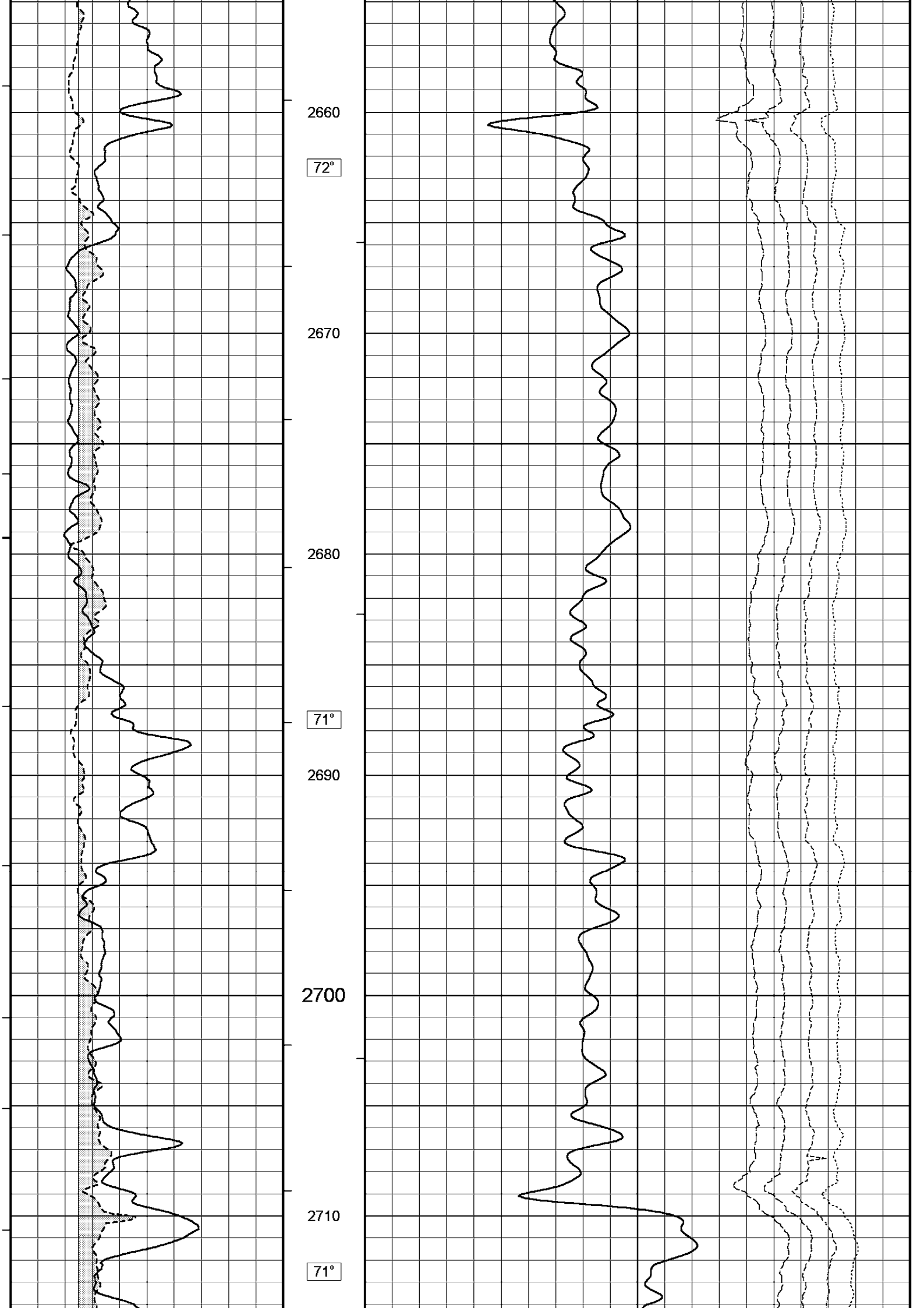


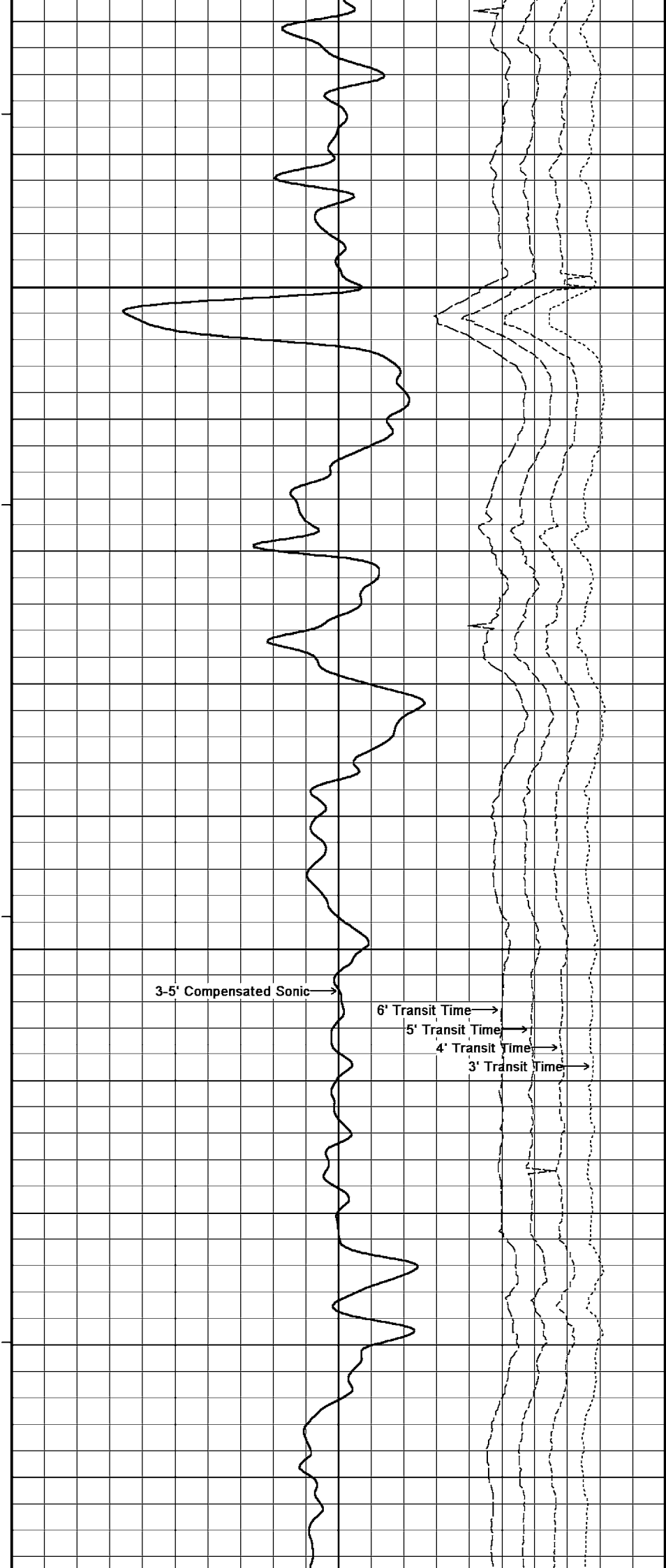
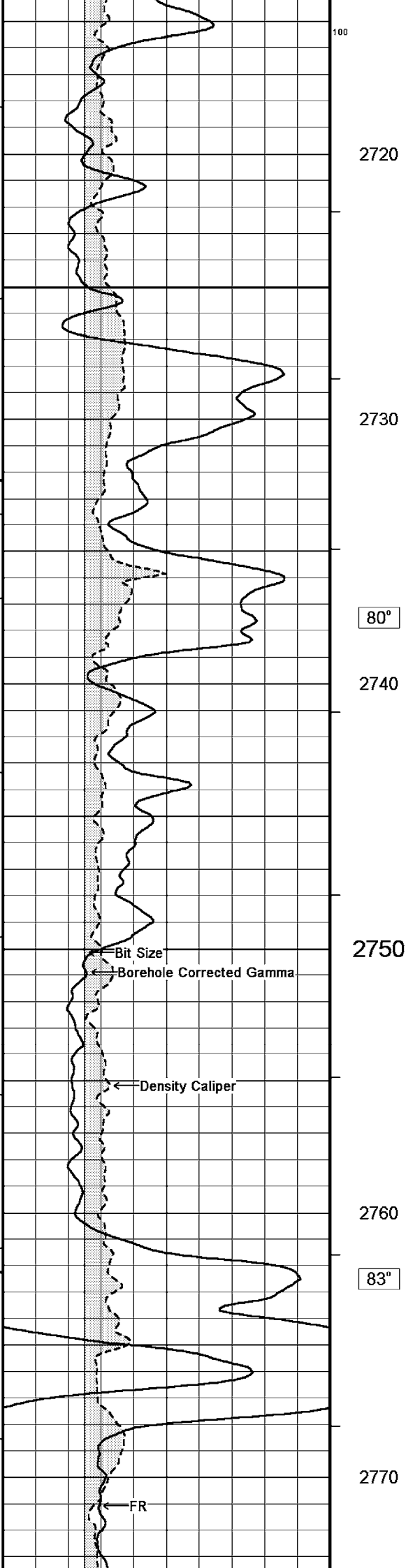


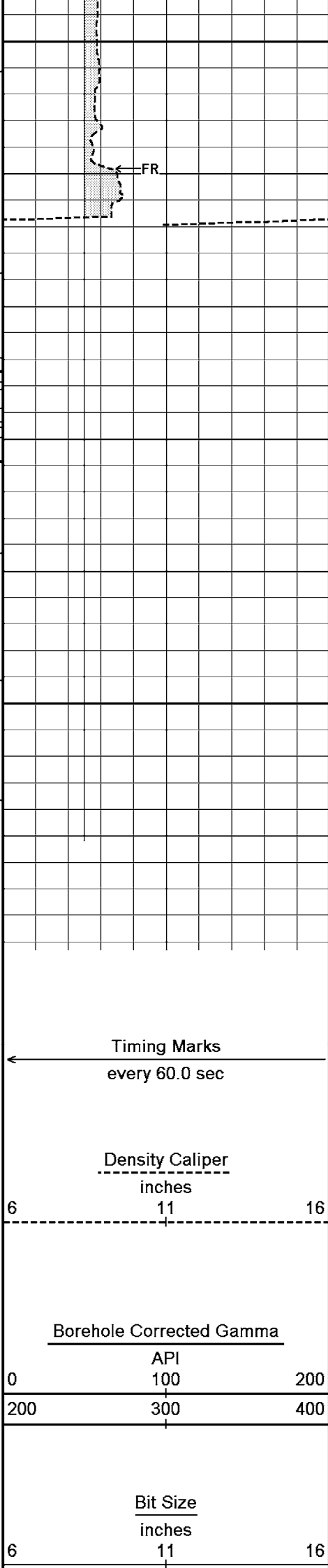












2780

2790

2800

2808

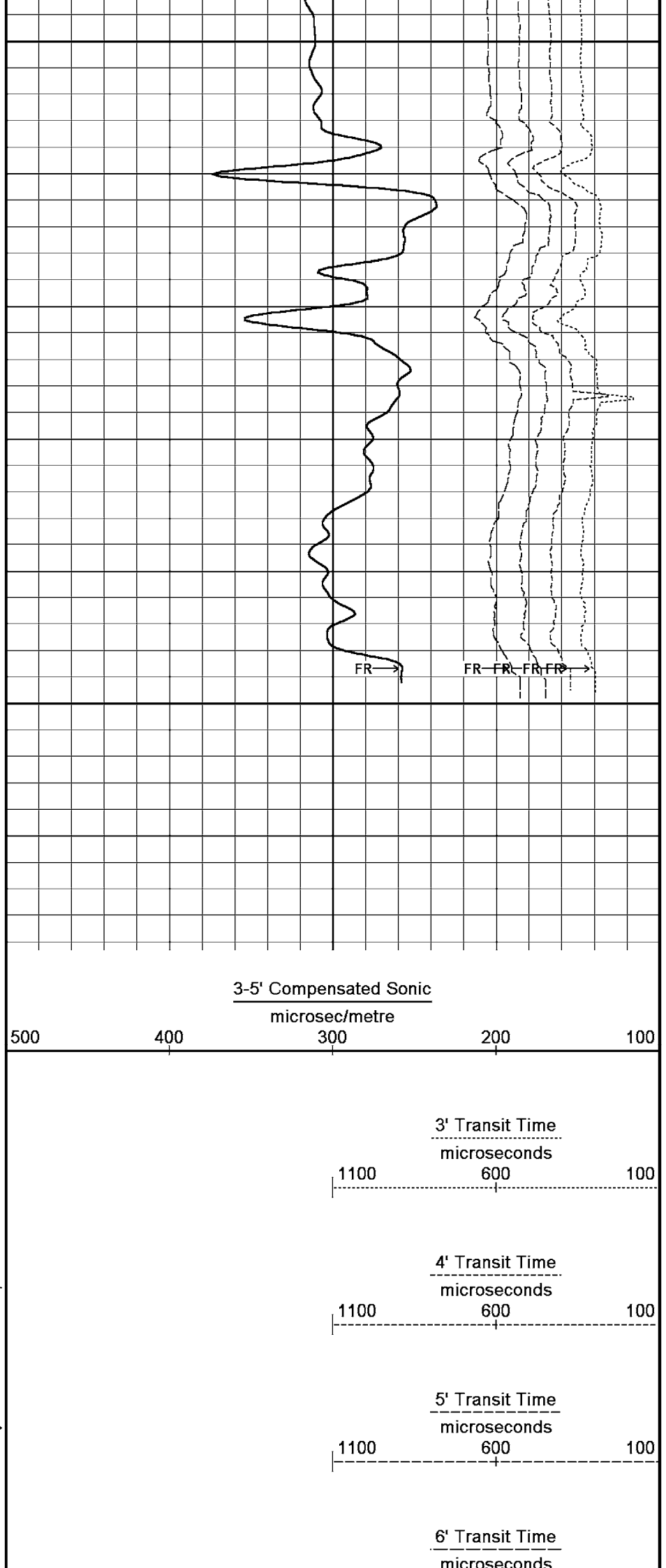
DSC
in
Metres

Borehole
Temp in
deg C

HVI
every
10 cu ft

Annular
Integral
every
10 cu ft

Replay



BEFORE SURVEY CALIBRATION			
C:\BMA_A5A\FINAL DATA\BMA_A5A_MAIN_LOG_MSS.dta			
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	
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	
Sonic Constants MSS 066			
Maximum Boundary Contrast	100.00	micro-sec/ft	
Fluid Transit Time	100.00	micro-sec/ft	

Fluid Transit Time	189.00	micro-sec/ft
Limestone Transit Time	47.50	micro-sec/ft
Sandstone Transit Time	55.50	micro-sec/ft
Dolomite Transit Time	43.50	micro-sec/ft
Sonic used for Porosities	3-5' Compensated Sonic	
Correction for Sonde Skew	Applied	
Cycle Stretch Algorithm	Applied	
MN3FT	N/A	micro-sec
MX3FT	N/A	micro-sec

Fixed Gate Parameters

Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Down Hole Fixed Gate Parameters

Gate Start	N/A	micro-sec
Gate Width	N/A	micro-sec
Initial Discriminator Level	0.0000	mVolts

Full Waveform Parameters

Use 3' Waveform to derive TR	N/A	
Use 4' Waveform to derive TR	N/A	
Use 5' Waveform to derive TR	N/A	
Use 6' Waveform to derive TR	N/A	
3' Waveform Discriminator Level	N/A	mV
4' Waveform Discriminator Level	N/A	mV
5' Waveform Discriminator Level	N/A	mV
6' Waveform Discriminator Level	N/A	mV
3' Waveform Filter	N/A	
4' Waveform Filter	N/A	
5' Waveform Filter	N/A	
6' Waveform Filter	N/A	
Semblance Level	N/A	
Semblance Window Width	N/A	micro-sec
Sonic 1 Despiker	N/A	N/A
Sonic 2 Despiker	N/A	N/A

DOWNHOLE EQUIPMENT

C:\BMA_A5A\FINAL DATA\BMA_A5A_MAIN_LOG_MSS.dta

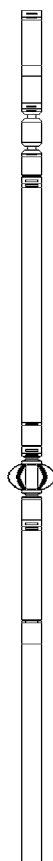
Compact Swivel Head Adaptor F
SHA 71 Length: 0.83 m Weight: 26.5 lb

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

MBE 21 - THIRD BRIDLE
MLK 111 Length: 3.76 m Weight: 30.9 lb

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

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

Compact Memory Sub A.C
MMS 38 Length: 0.95 m Weight: 22.0 lb

Compact Knuckle Joint
SKJ 46 Length: 0.66 m Weight: 24.3 lb

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

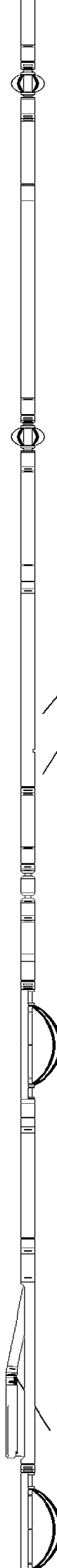
Compact Inline Bowspring A
MIS 94 Length: 1.74 m Weight: 33.1 lb

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

23.48 m AVOL - Annular Volume
23.48 m HVOL - Hole Volume
23.48 m CLDC - Density Caliper

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 140 Length: 0.65 m Weight: 15.4 lb

Compact Upper Guard Sub.
MUG 20 Length: 2.74 m Weight: 68.3 lb

Compact Inline Standoff B
MIS 129 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



4.60 m TR21 - 3' Transit Time
4.60 m TR12 - 6' Transit Time
4.60 m TR22 - 5' Transit Time
4.60 m TR11 - 4' Transit Time

4.60 m DT35 - 3-5' Compensated Sonic

Tool Zero (0.44m from bottom)

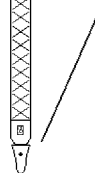
Induction Standoff

HFS 4 Length: 0.40 m

Weight: 6.6 lb

Total Length: 53.36 m

Weight: 1223.6 lb



All measurements relative to tool zero.

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

Elevation Kelly Bushing		metres	First Reading	2798.80	metres
Elevation Drill Floor	32.82	metres	Depth Driller	2810.00	metres
Elevation Ground Level	-59.40	metres	Depth Logger	2803.90	metres



COMPENSATED SONIC
1:200 MD