



**Compact**

**COMPENSATED SONIC**

**1:200 MD**

COMPANY	ESSO AUSTRALIA PTY LTD			
WELL	BREAM A19A			
FIELD	BREAM			
PROVINCE/COUNTRY	BASS STRAIT			
COUNTRY/STATE	AUSTRALIA			
LOCATION	S 38 29 58.893, E 147 46 19.968 N 5738458.220 m, E 567336.120 m			
	<b>FIELD PRINT</b>			
LSD	SEC	TWP	RGE	Other Services
				DUAL LATEROLOG
API Number	PHOTO DENSITY			
Permit Number	COMPENSATED NEUTRON			
Permanent Datum MSL	, Elevation 0.0 metres			
Log Measured From RT @ 32.82 M	above Permanent Datum			
Drilling Measured From RT				
Date	30-Nov-2005			Elevations: KB DF 32.82 metres GL -59.40 metres
Run Number	ONE			
Depth Driller	2804.00			metres
Depth Logger	2801.00			metres
First Reading	2787.60			metres
Last Reading	1434.00			metres
Casing Driller	1434.00			metres
Casing Logger	1434.00			metres
Bit Size	8.50			inches
Hole Fluid Type	KCL/GYL/POLY			
Density / Viscosity	10.15 lb/USg			62.00 CP
PH / Fluid Loss	9.00			2.60
Sample Source	FLOWLINE			
Rm @ Measured Temp	0.228 @ 25.0			ohm-m
Rmf @ Measured Temp	0.091 @ 25.0			ohm-m
Rmc @ Measured Temp	0.359 @ 25.0			ohm-m
Source Rmf / Rmc	PRESS			PRESS
Rm @ BHT	0.119 @ 67.5			ohm-m
Time Since Circulation	27.5 HOURS			
Max Recorded Temp	70.60			deg C
Equipment Name	5" CWS/CML			
Equipment / Base	1			SALE
Recorded By	R. TENCH, B. MOSS			
Witnessed By	TREVOR LOBO			
CIRC STOPPED	00:15 29/NOV			

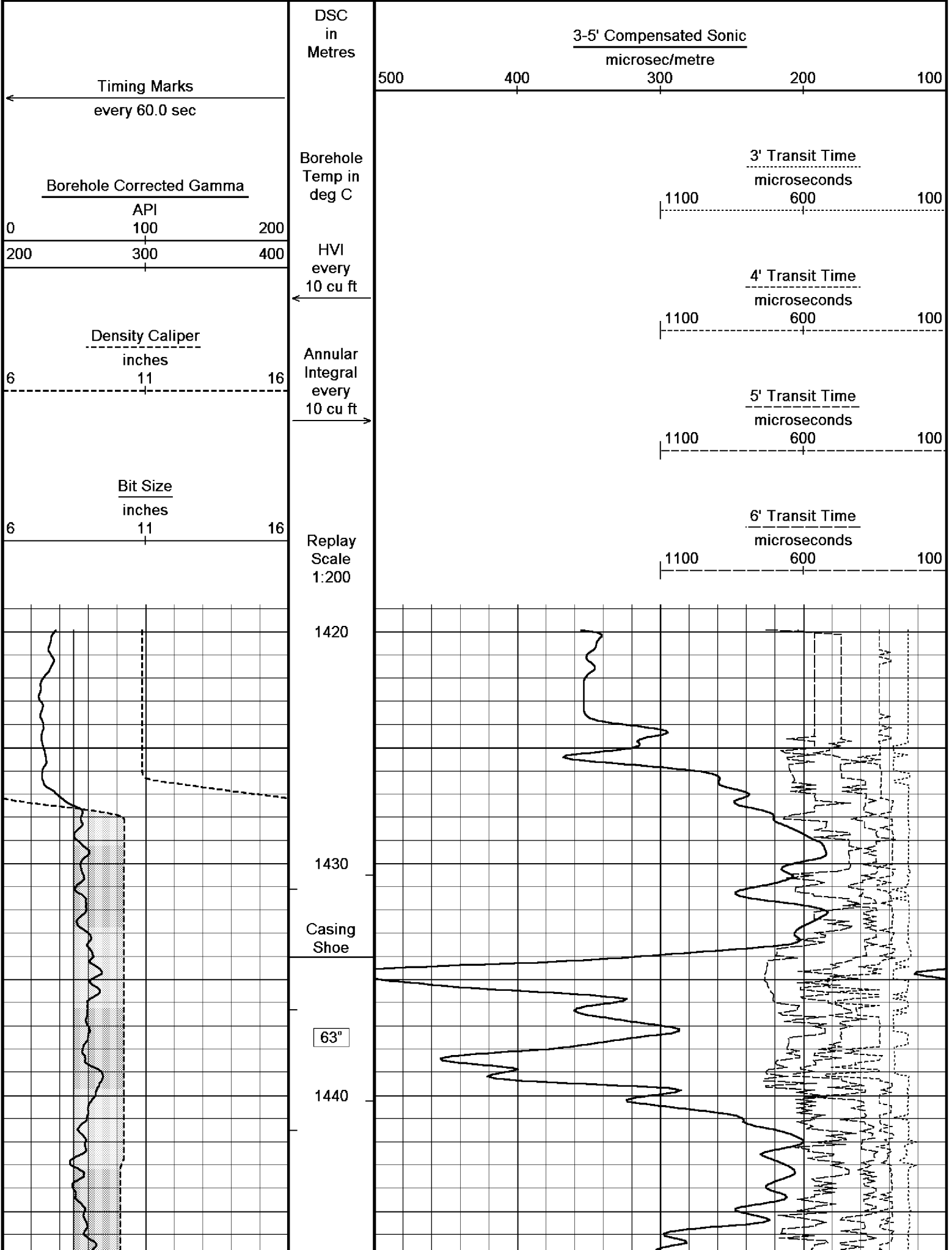
BOREHOLE RECORD				
Bit Size inches		Depth From metres	Depth To metres	
8.500		1434.00	2804.00	
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	10.750	0.00	1434.00	40.50

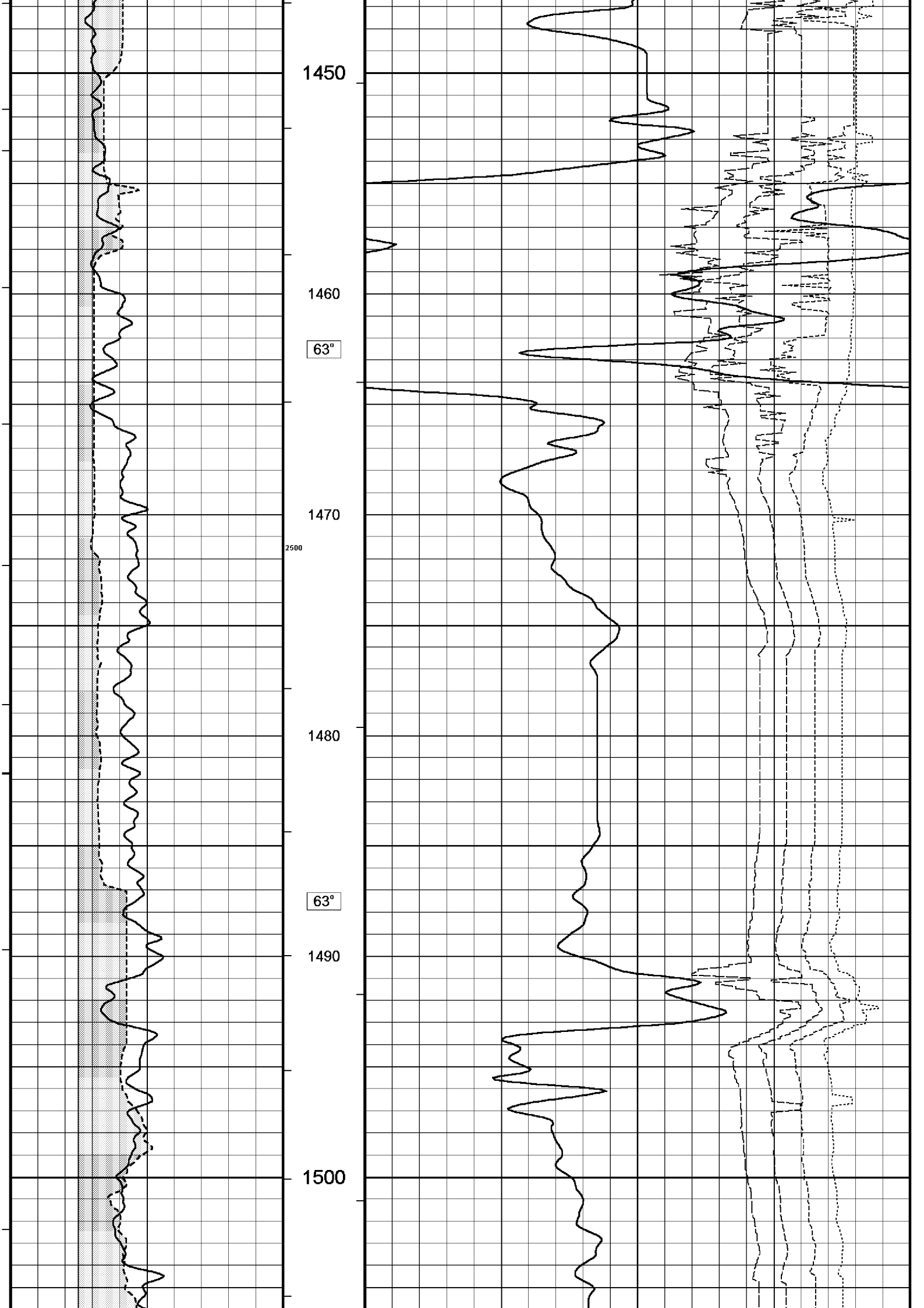
REMARKS
RIG: NABORS 453
5" SHUTTLE/MEMORY COMPACT OPERATION. CREW: R TENCH , B MOSS , B GOODWIN, M KOLCZE.
FIELD FINAL LOGS TO BE CORRELATED TO ANADRILL GAMMA LOG. FIELD FINALS REQUIRE CORRECTION TO TIME DEPTH CORRELATION ABOVE 1800mMD.
BRIDGED OF AT 2786mMD ON TRIP IN, REQUIRED 60RPM AND 10BBL/MIN TO ALLOW PIPE TO BE WASHED TO TD.
MAX. TEMPERATURE: 70.6 DEG C AT 2379m MD MAX. INCLINATION: 60.56 DEG AT 1478.37m MD MAX. DOGLEG SERVERITY: 6.78DEG/30m AT 1478.37m MD DEPLOYMENT ANGLE: 32.90DEG
HVOL: 2524 FT^3 AVOL: 1346 FT^3

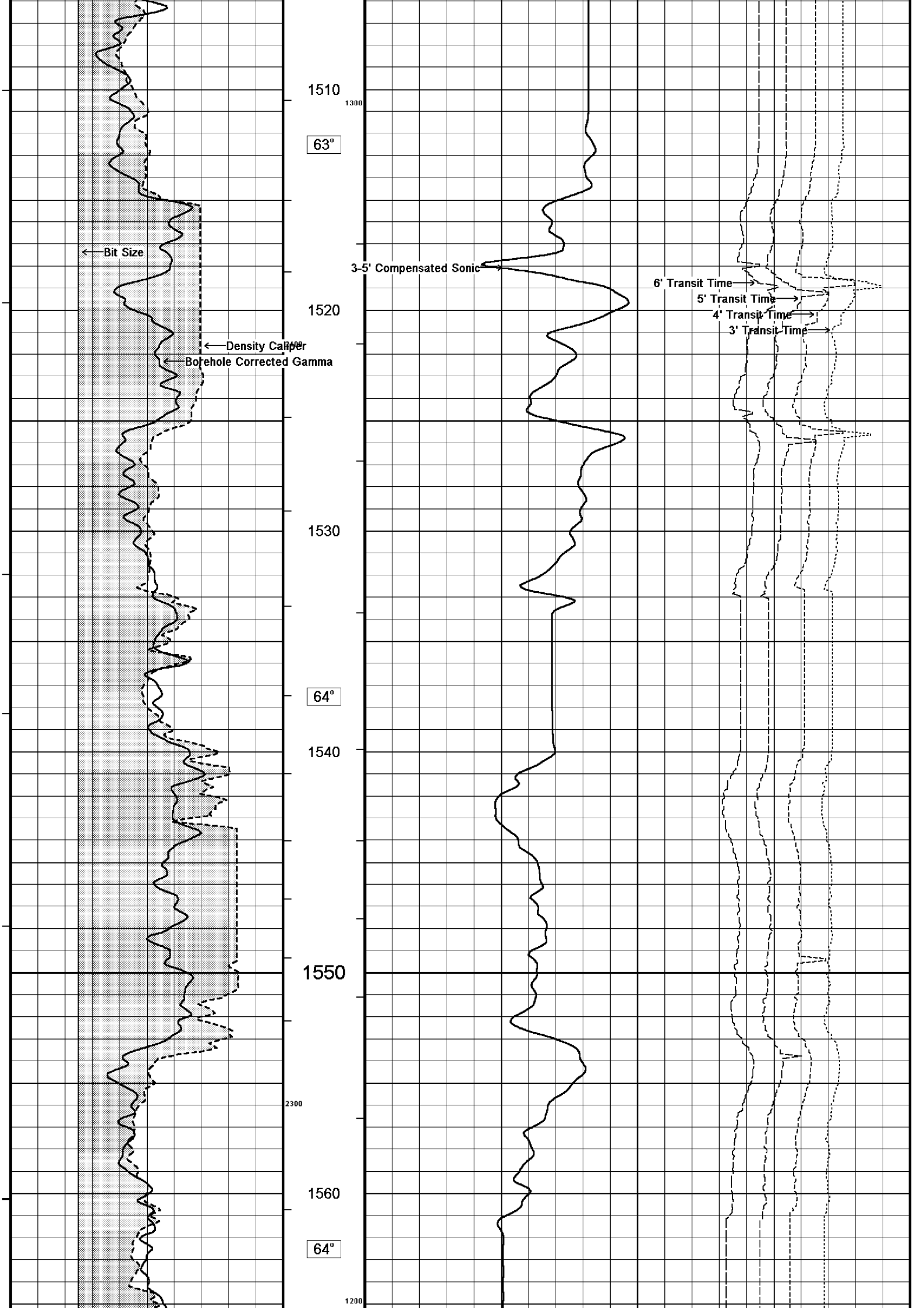
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

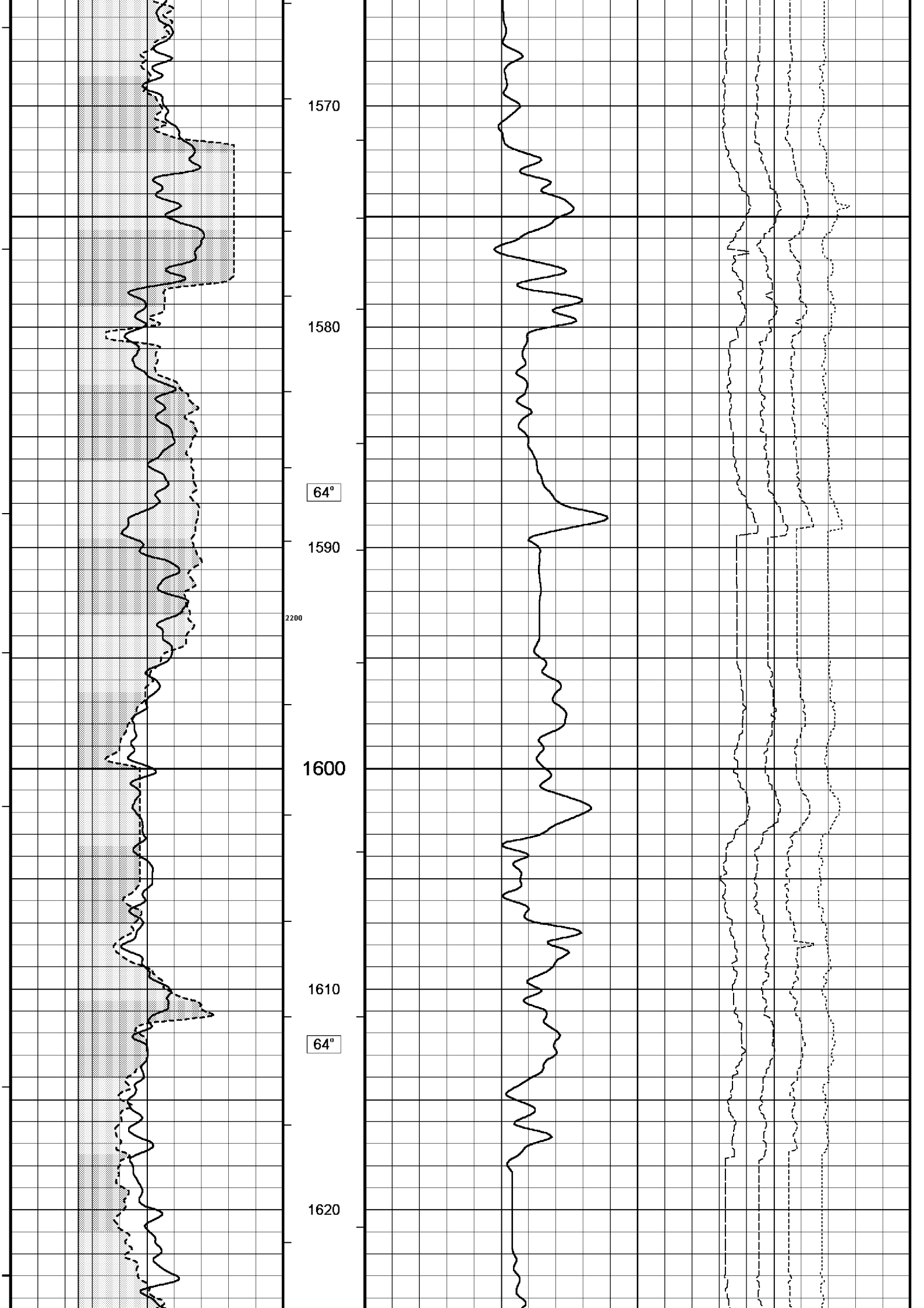
Depth Based Data - Maximum Sampling Increment 10.0cm  
Filename: C:\logs\BMA\_A19A\FIELD DATA\BMA\_A19A\_MSS.dta  
System Configuration Dates: Logged 17-JUN-2004: Processed 17-JUN-2004: Plotted 17-JUN-2004:

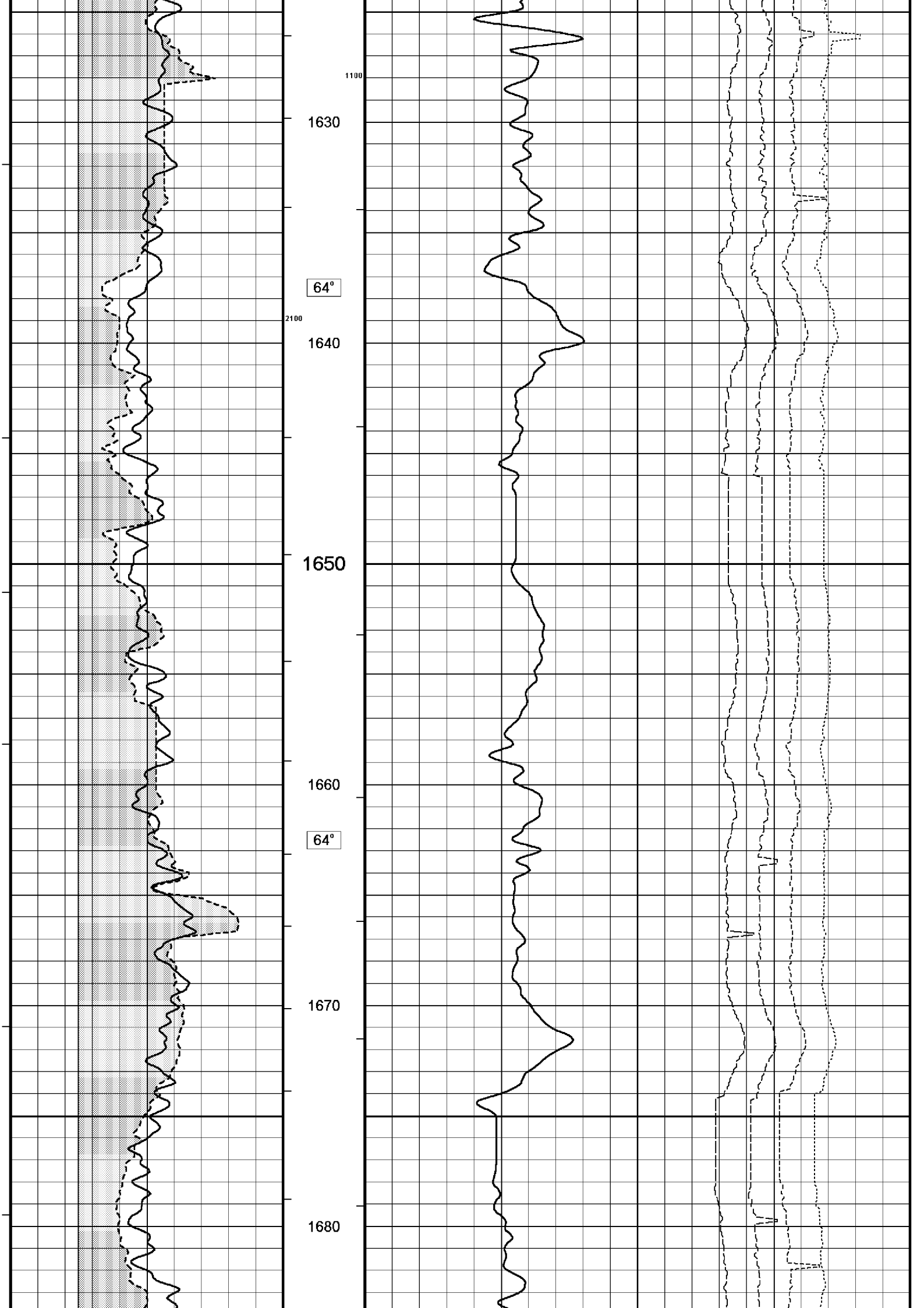
Plotted on 30-NOV-2005 21:44  
Recorded on 30-NOV-2005 14:16

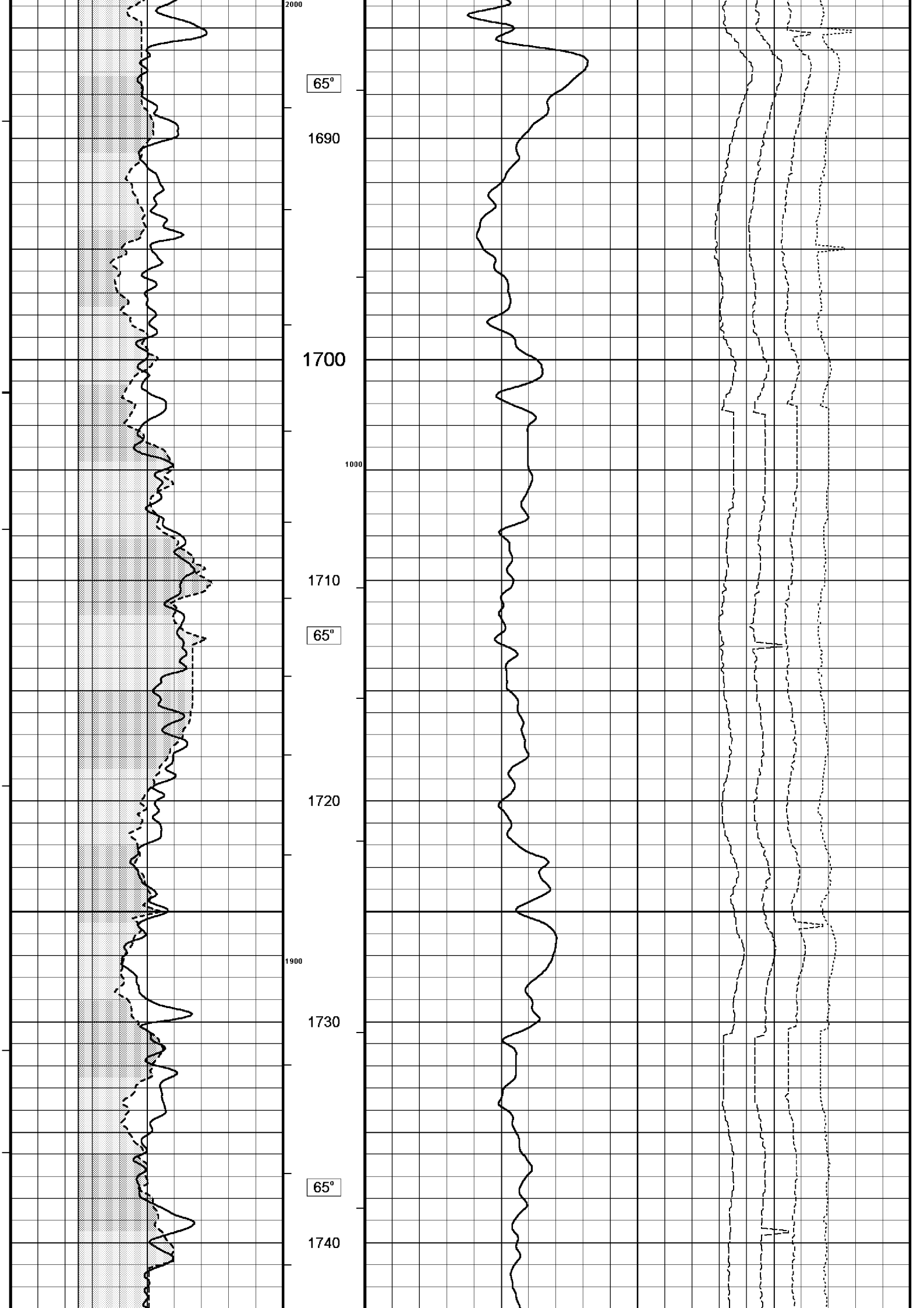


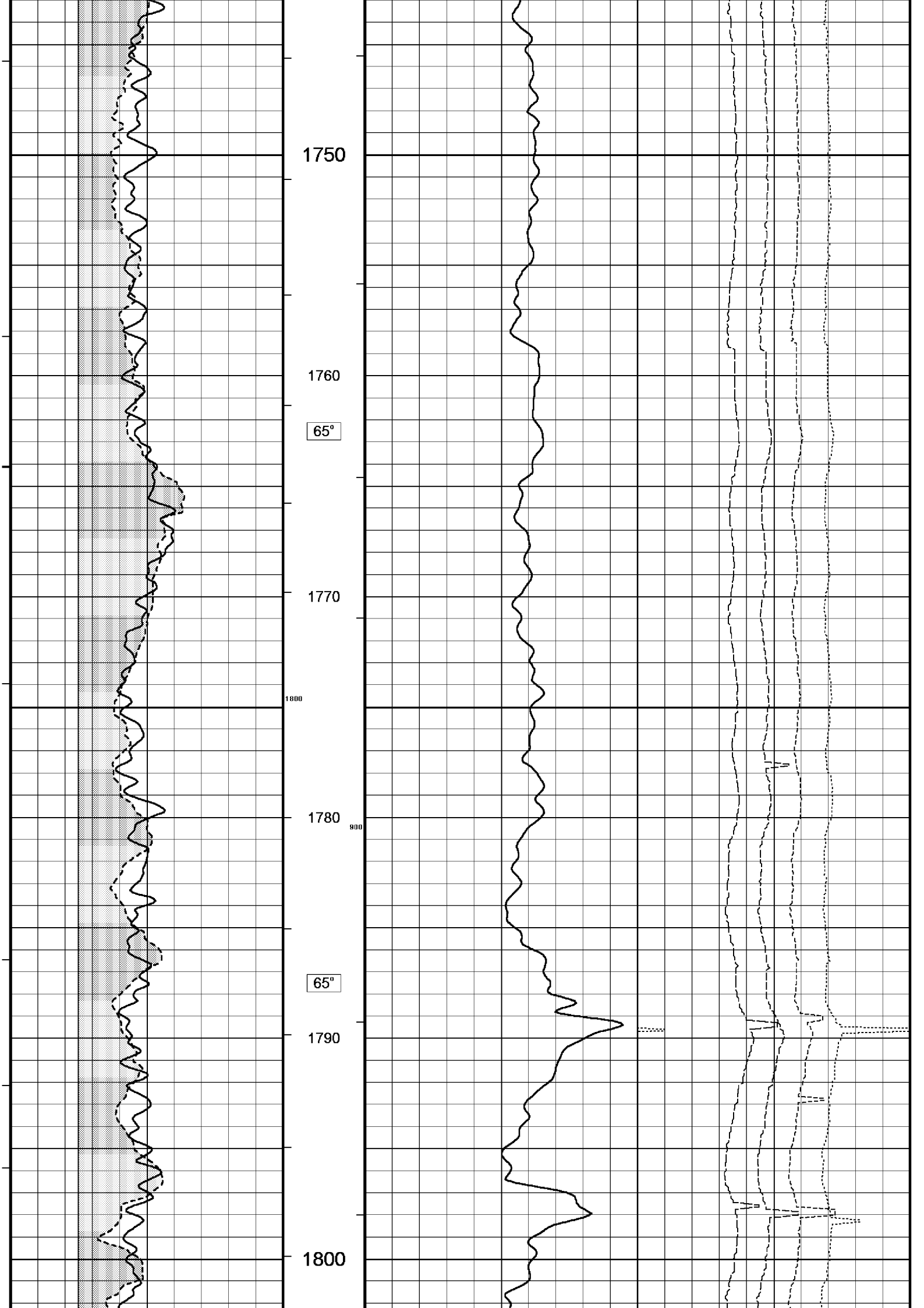




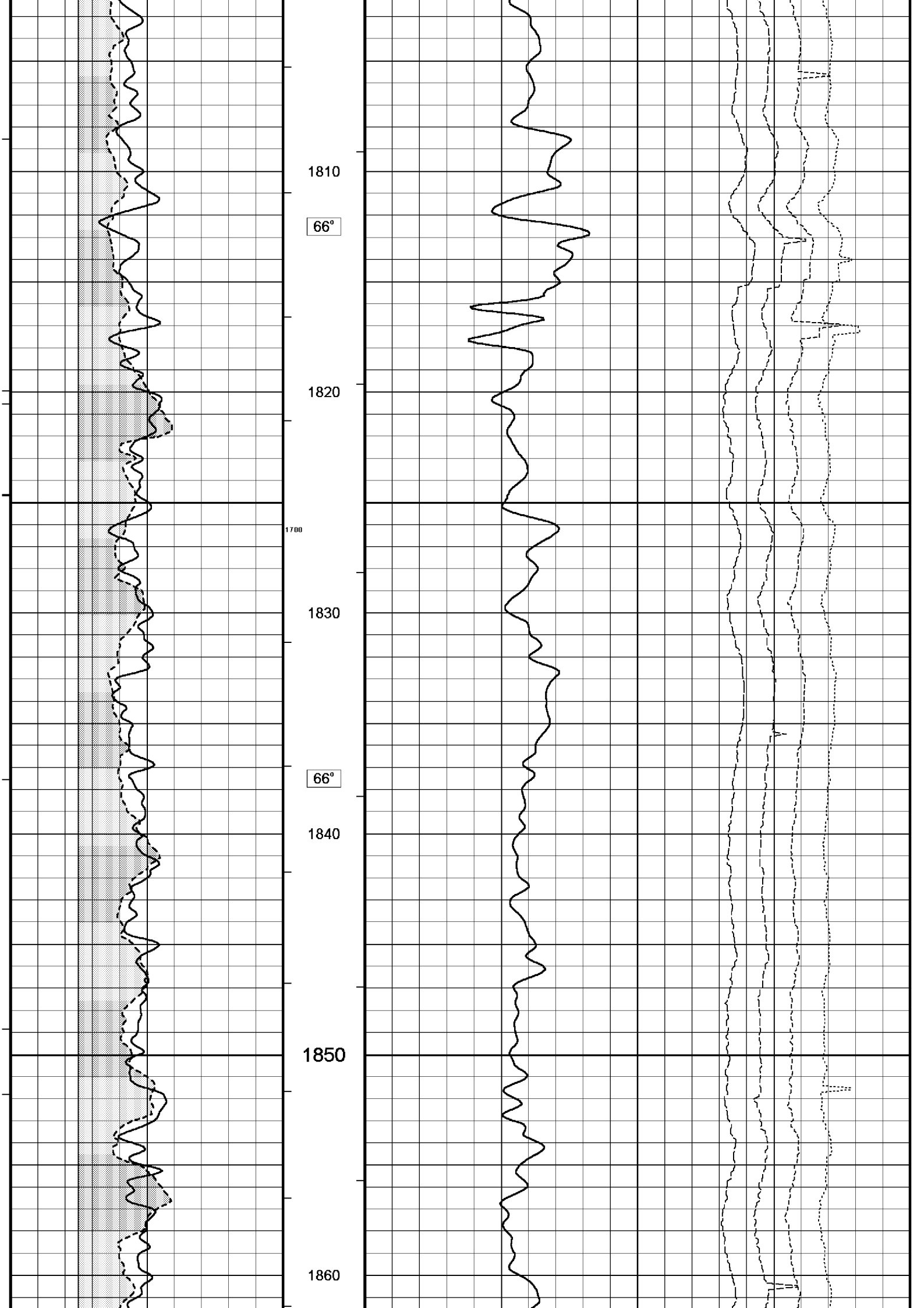


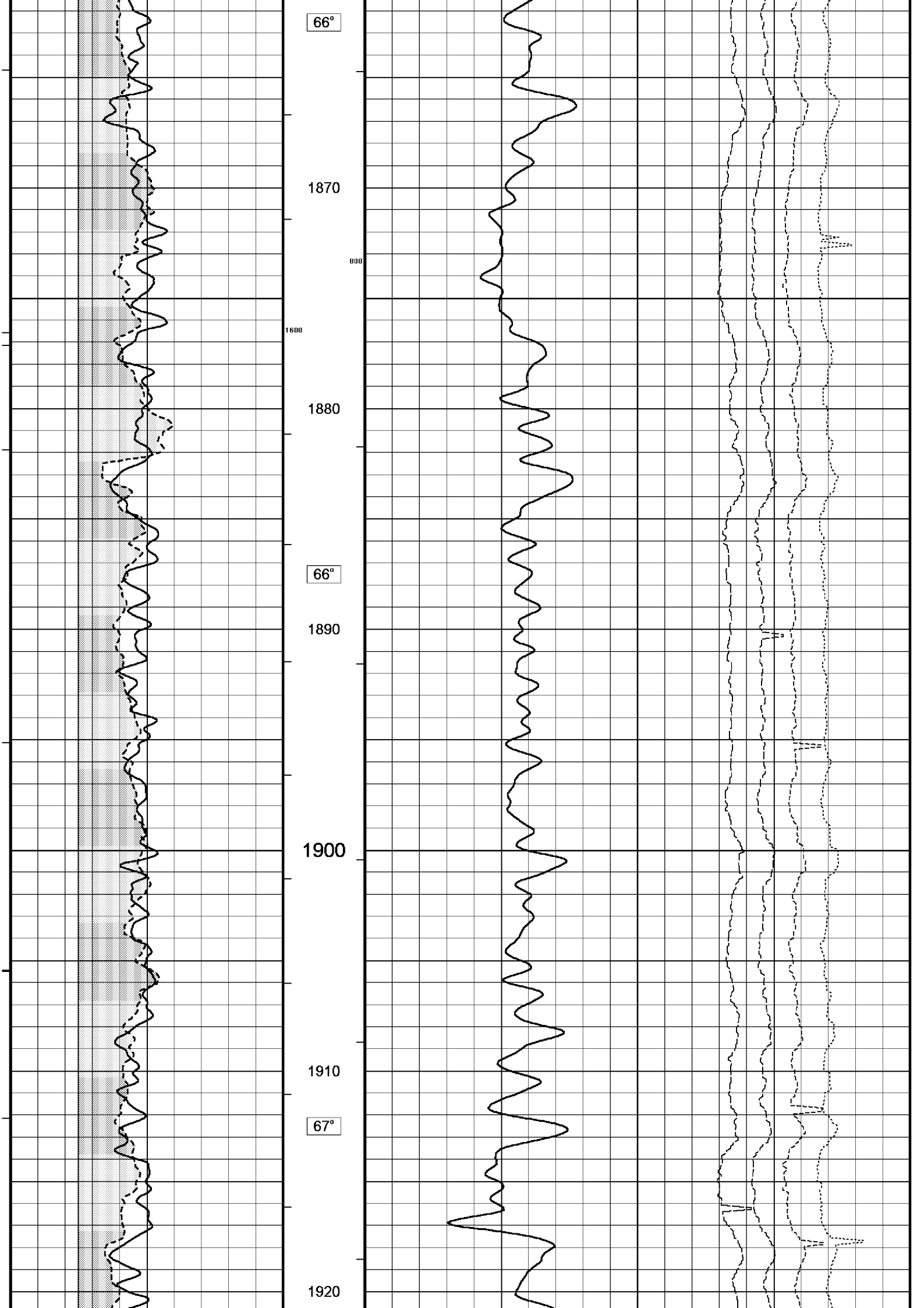


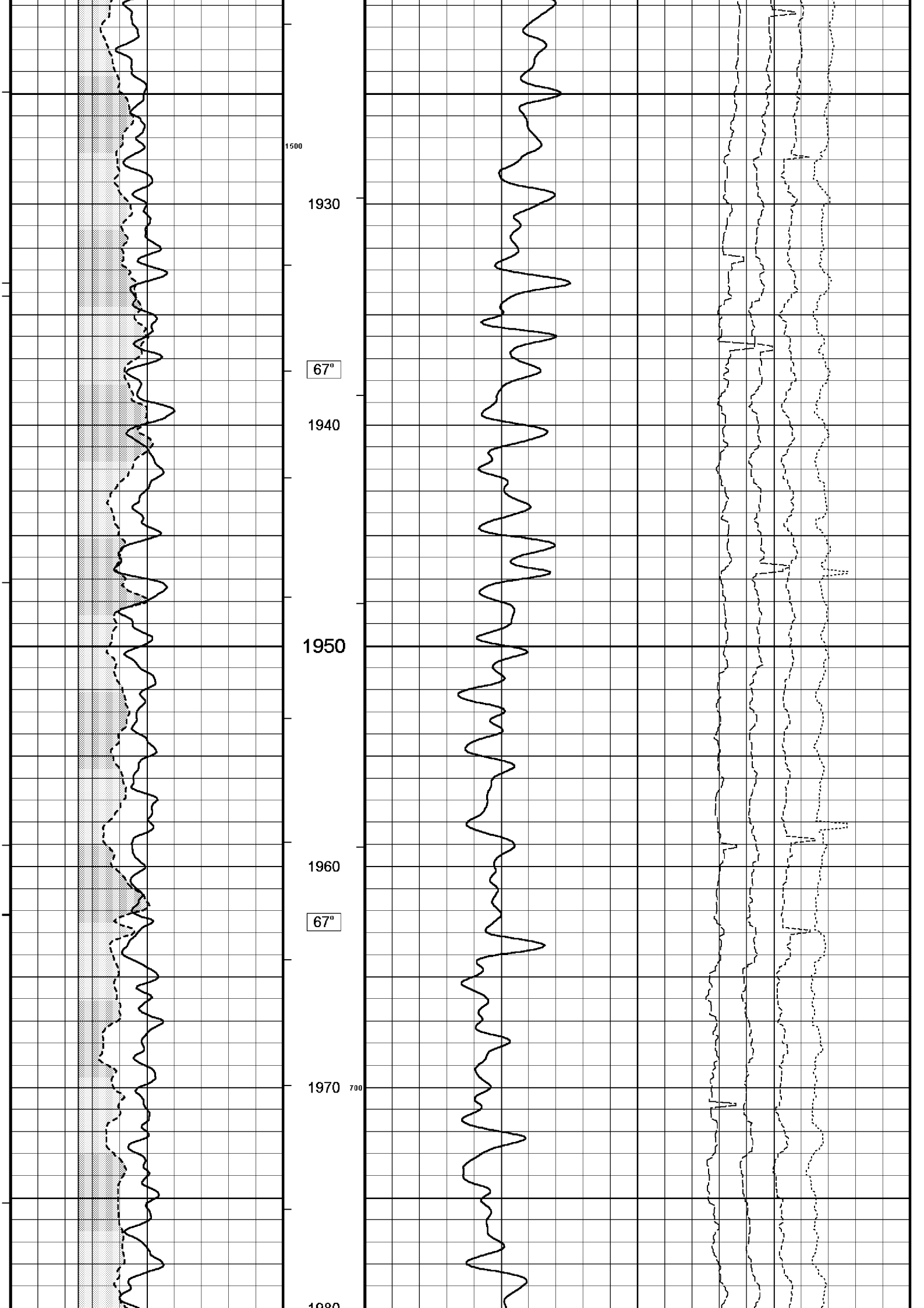


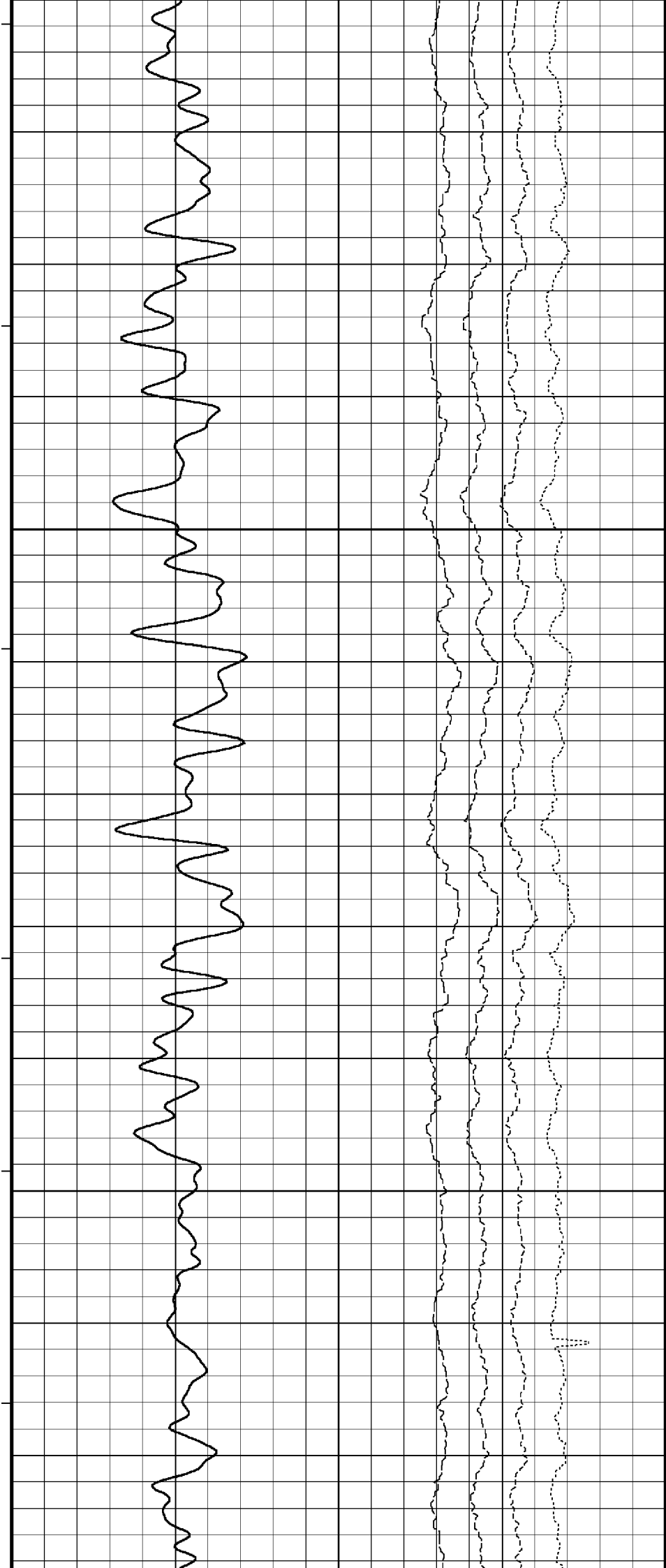
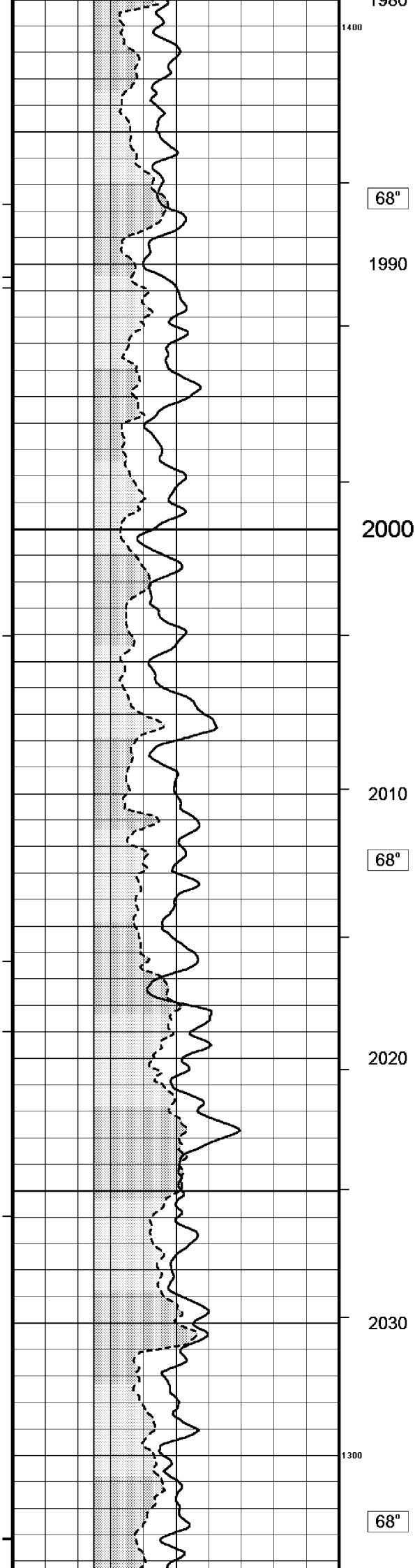


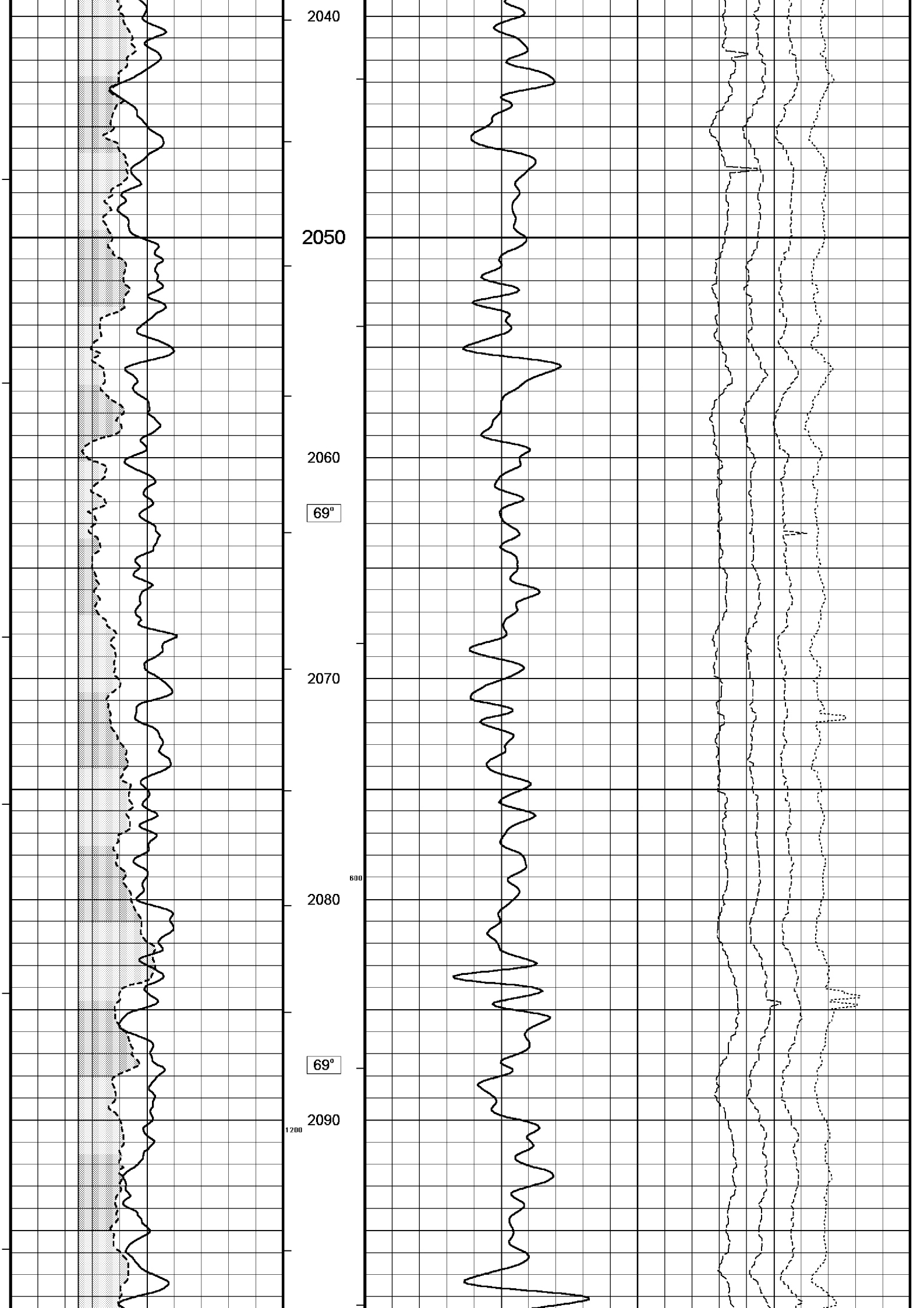


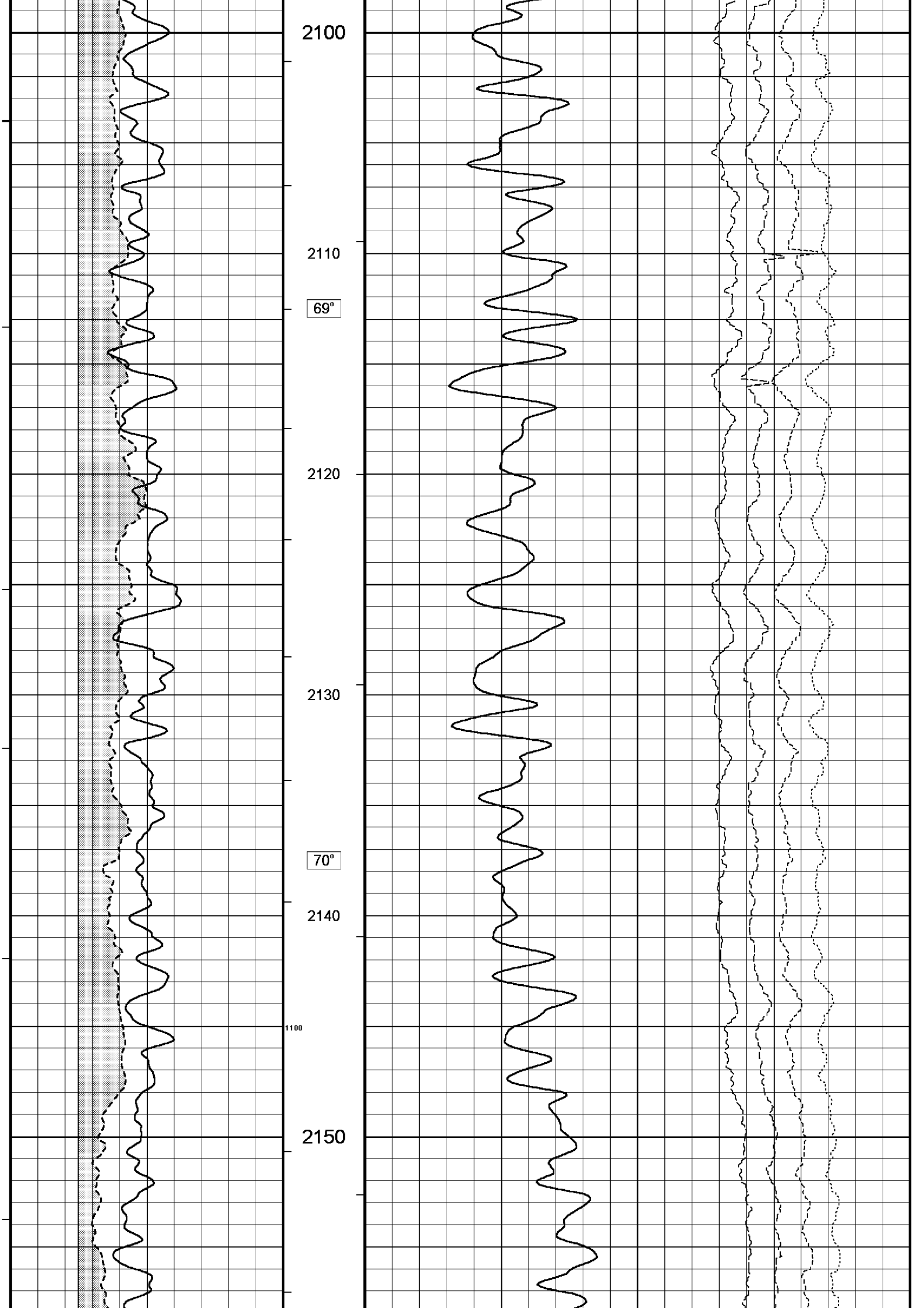


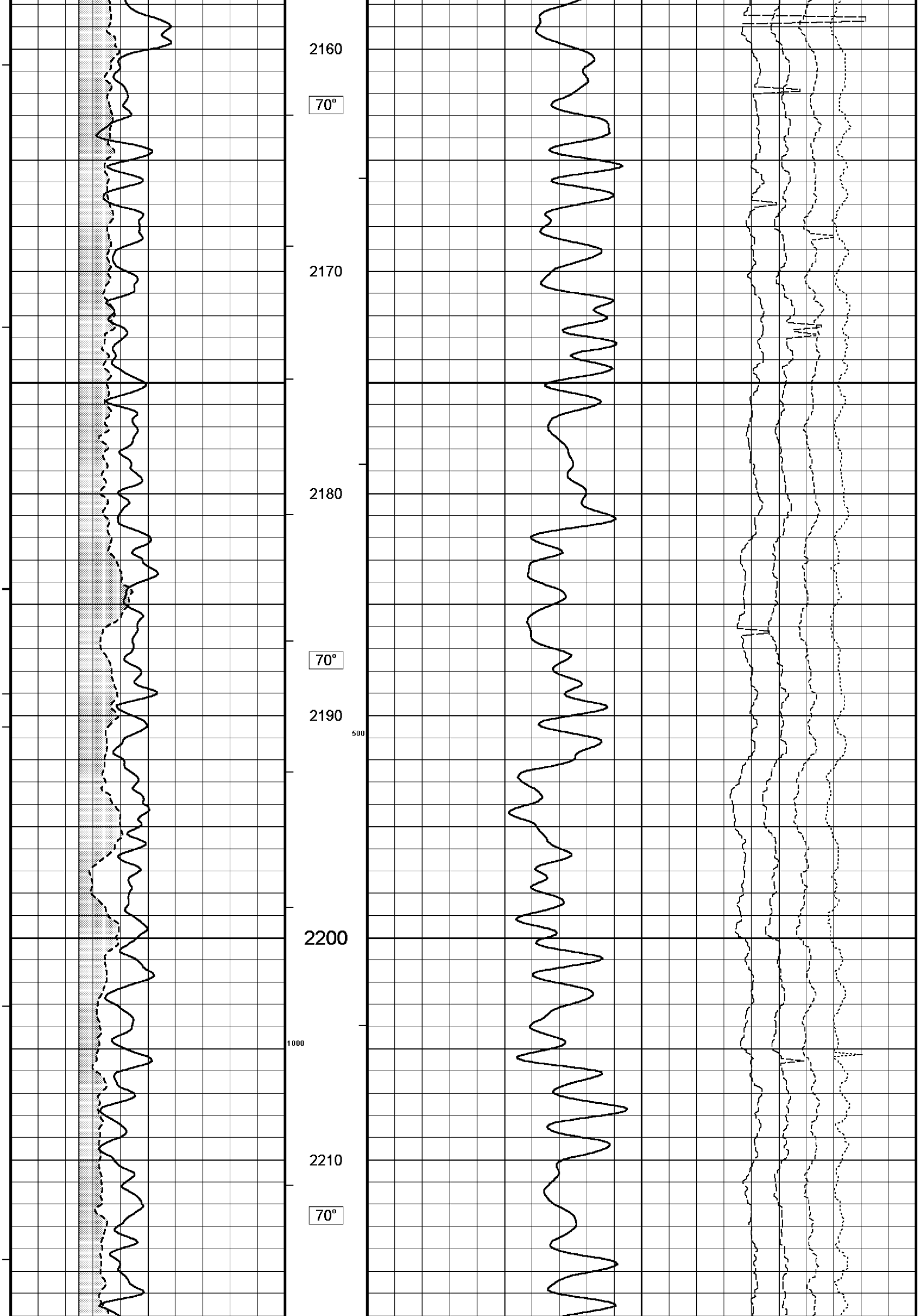


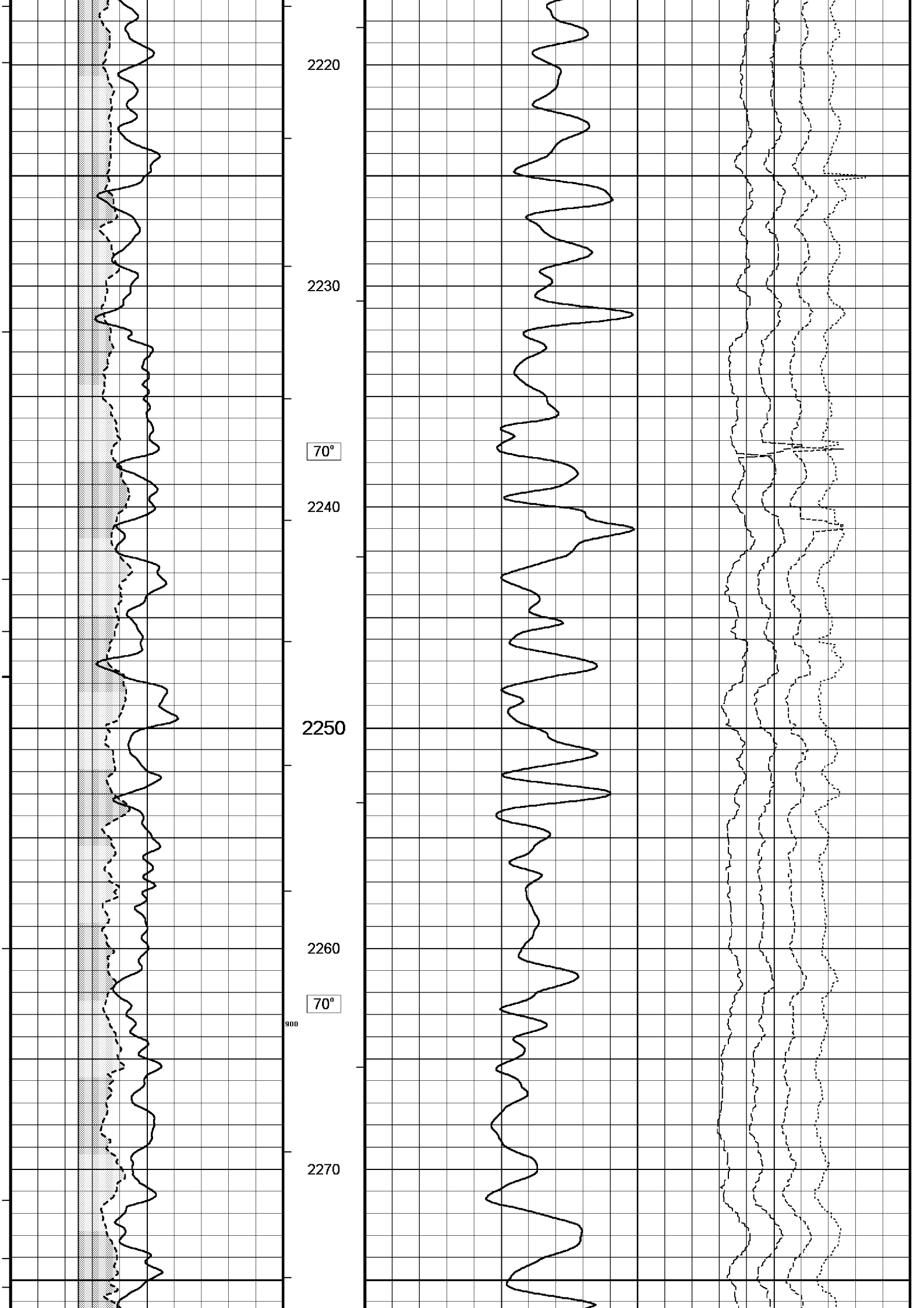




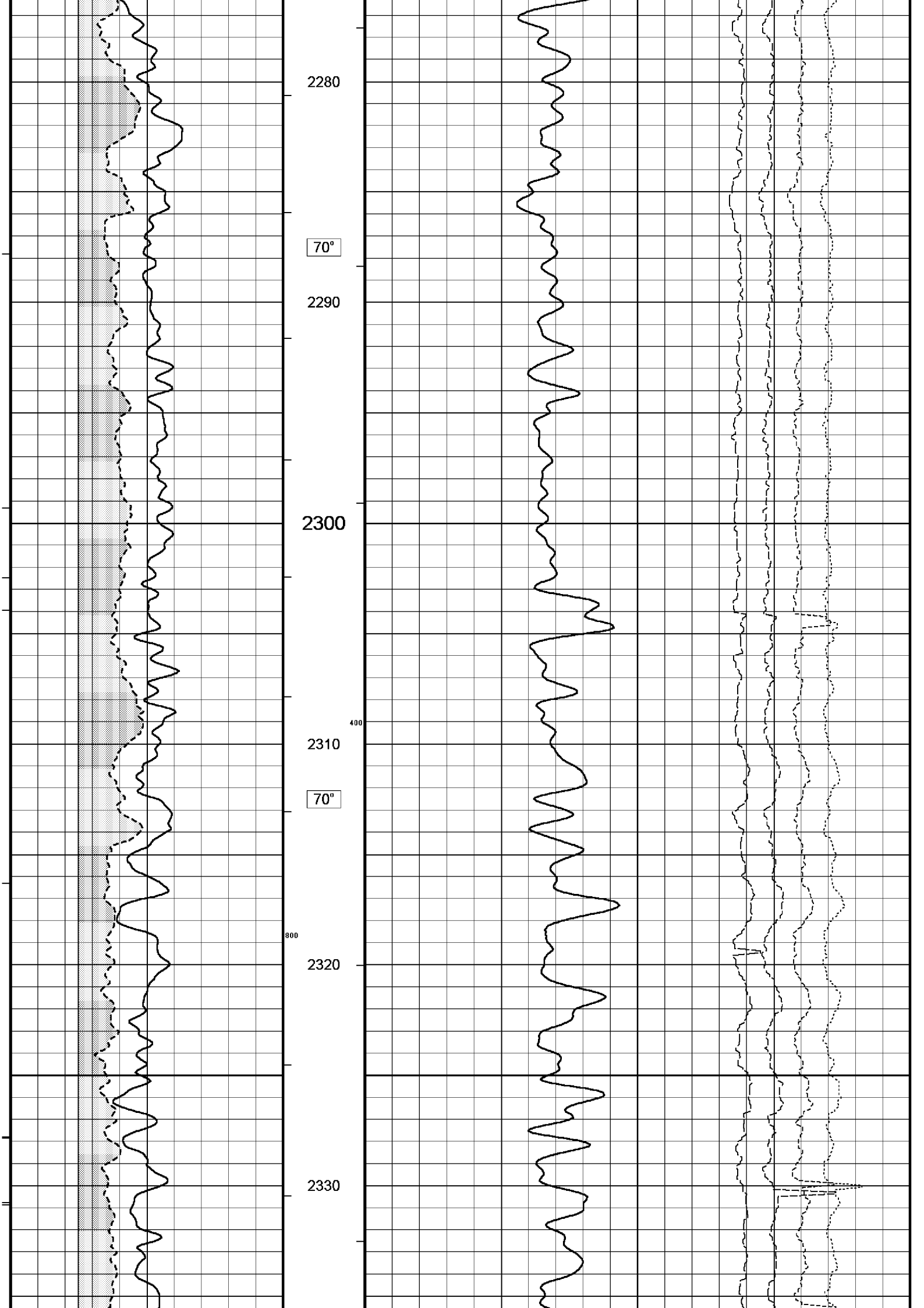


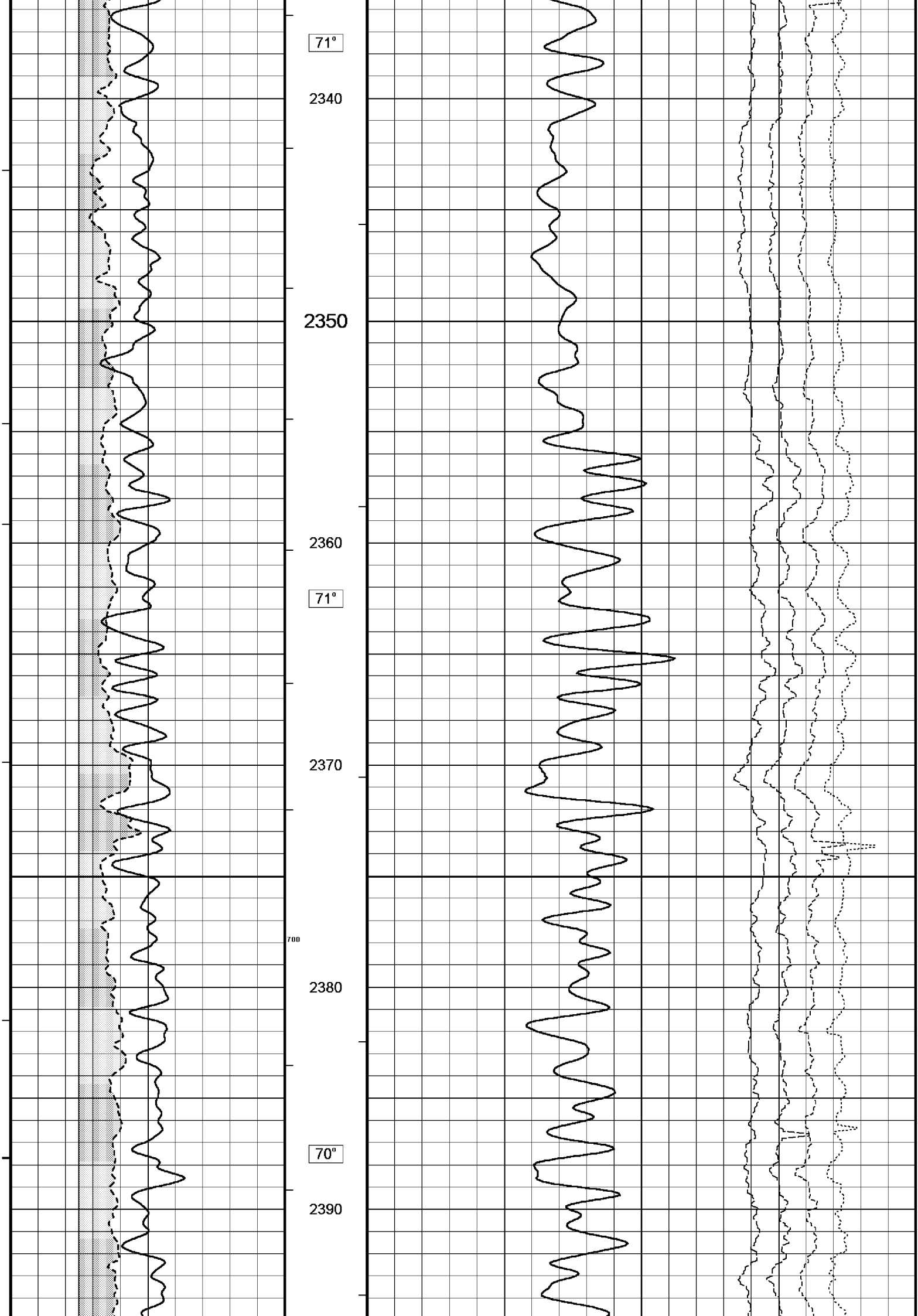


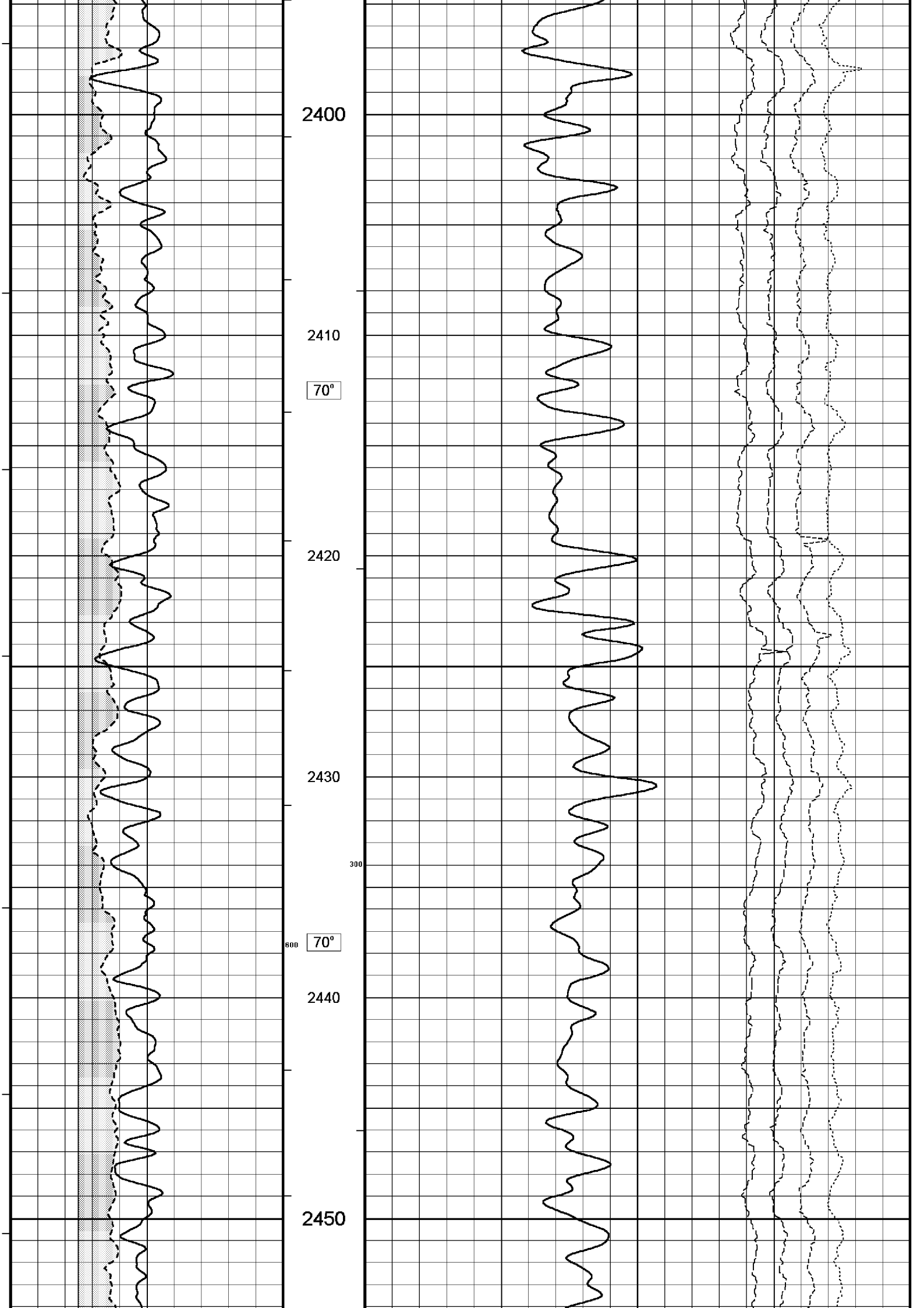


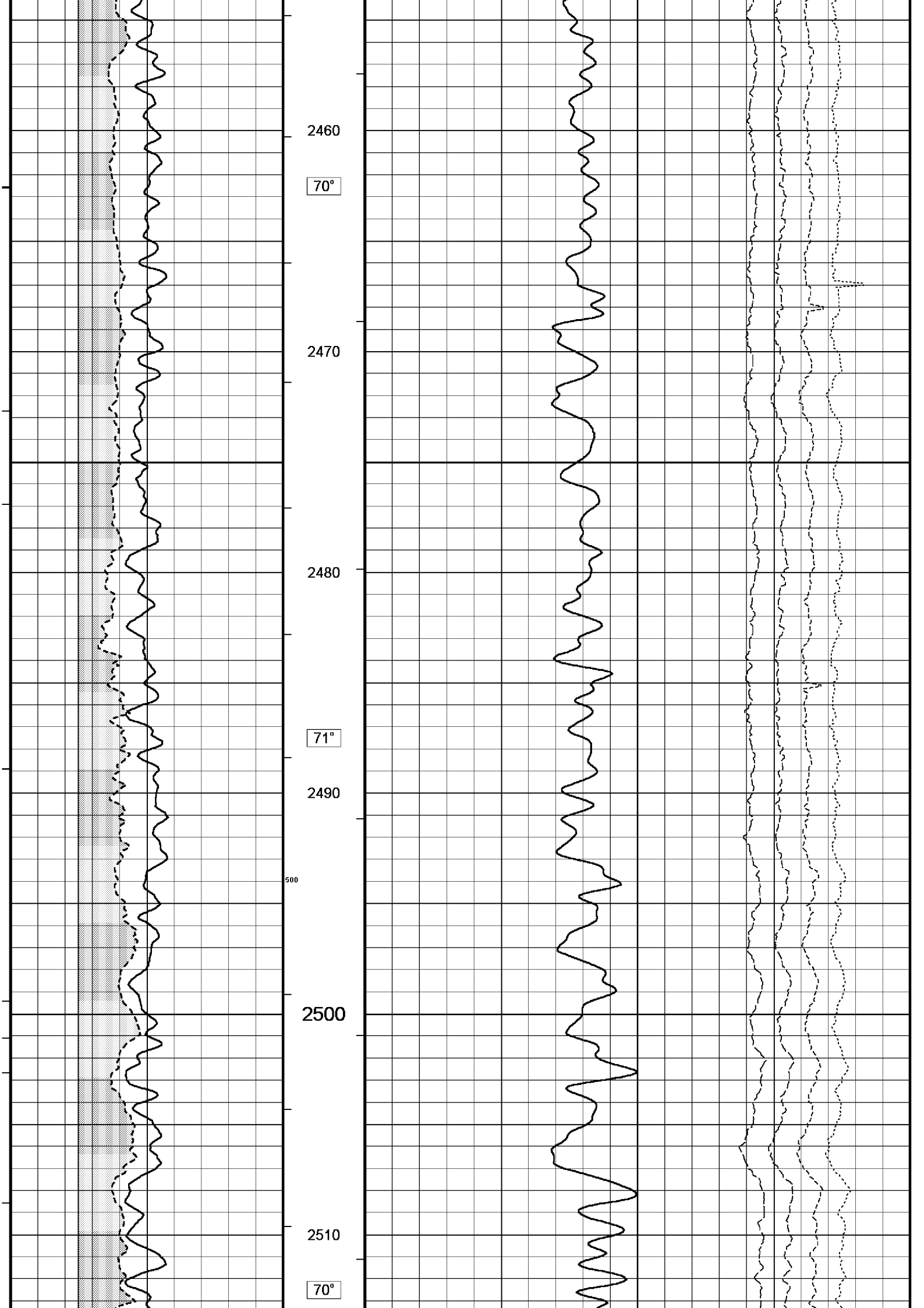


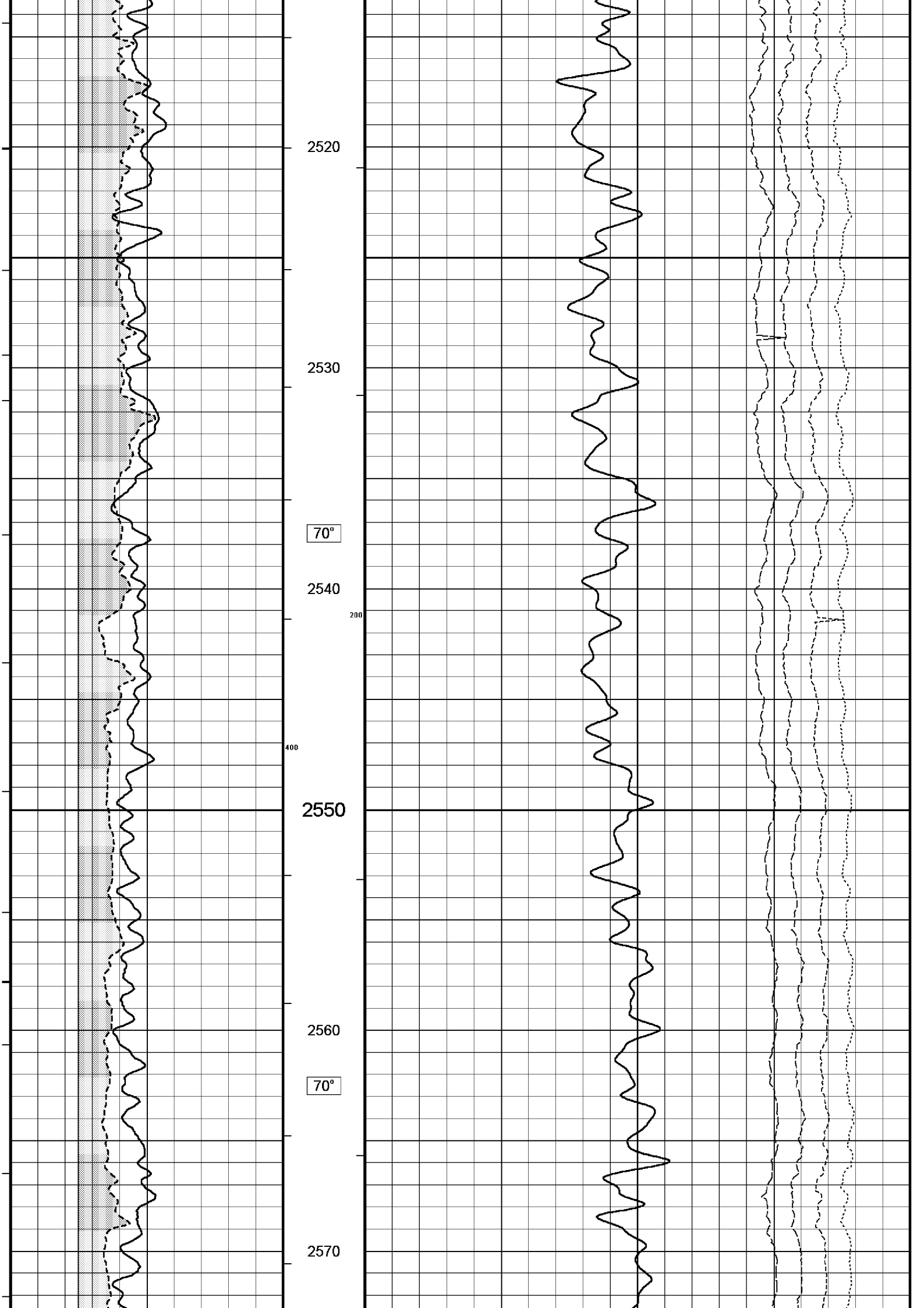


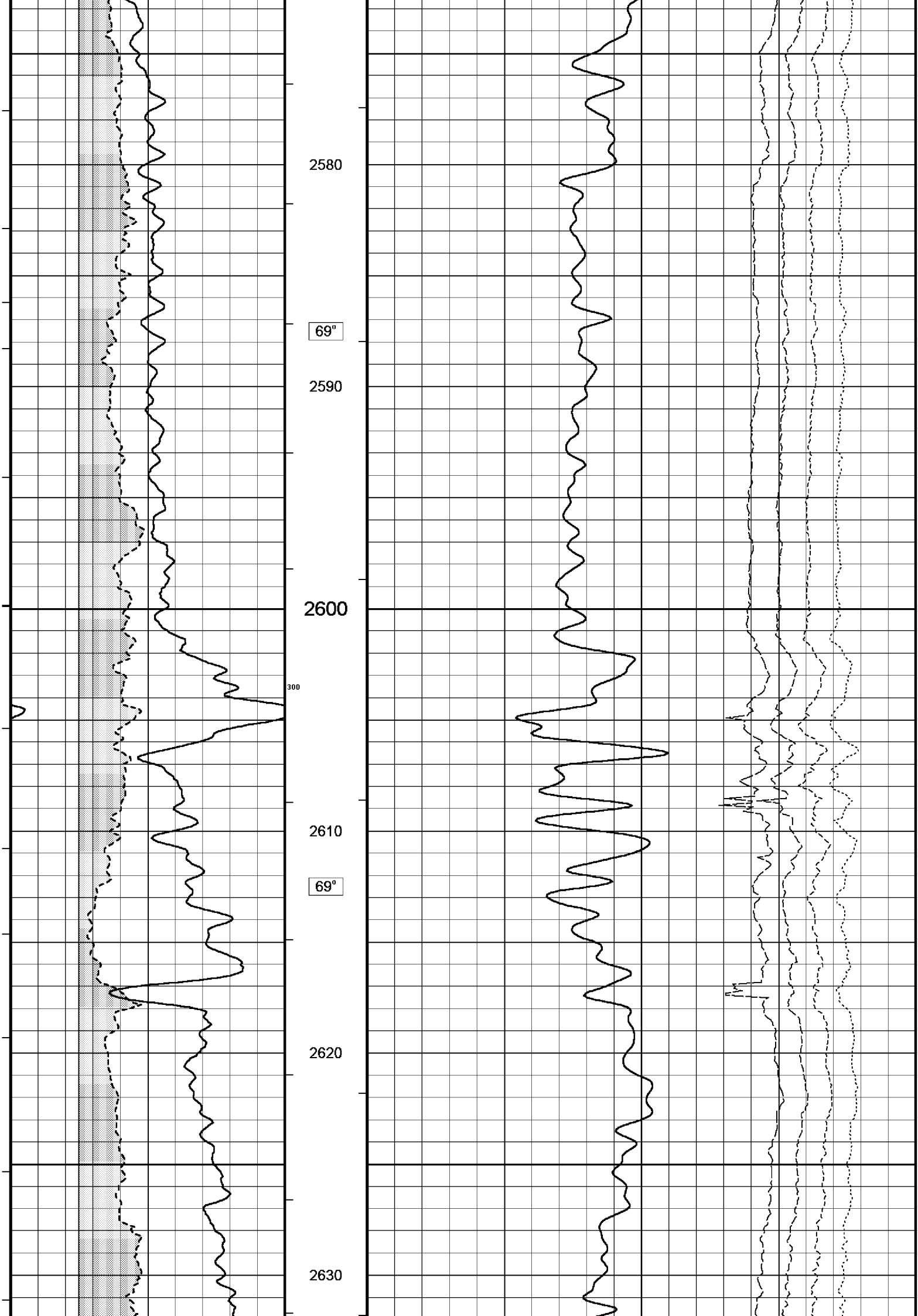


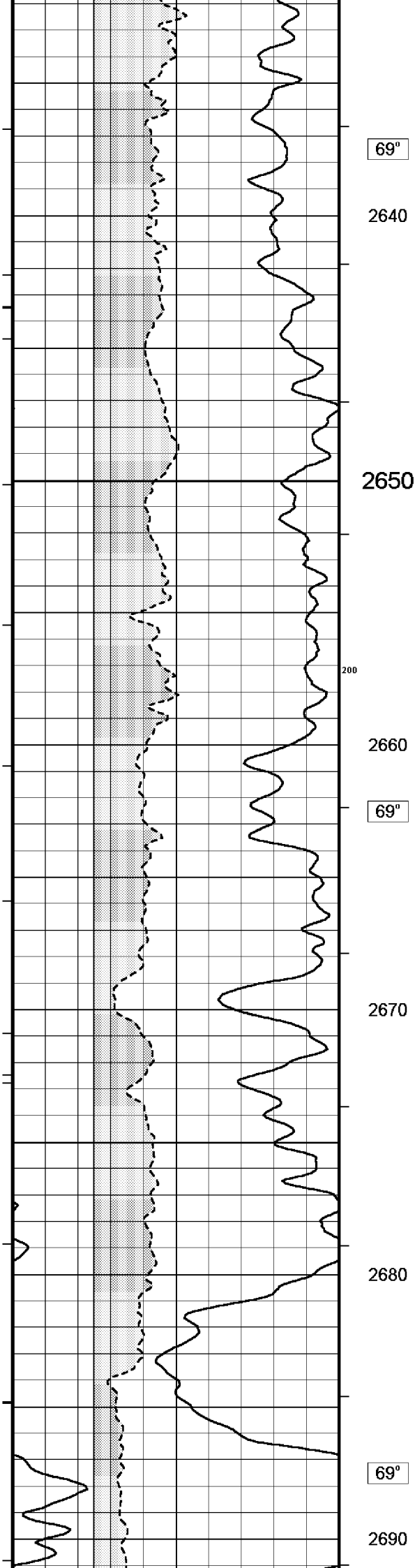












69°

2640

2650

200

2660

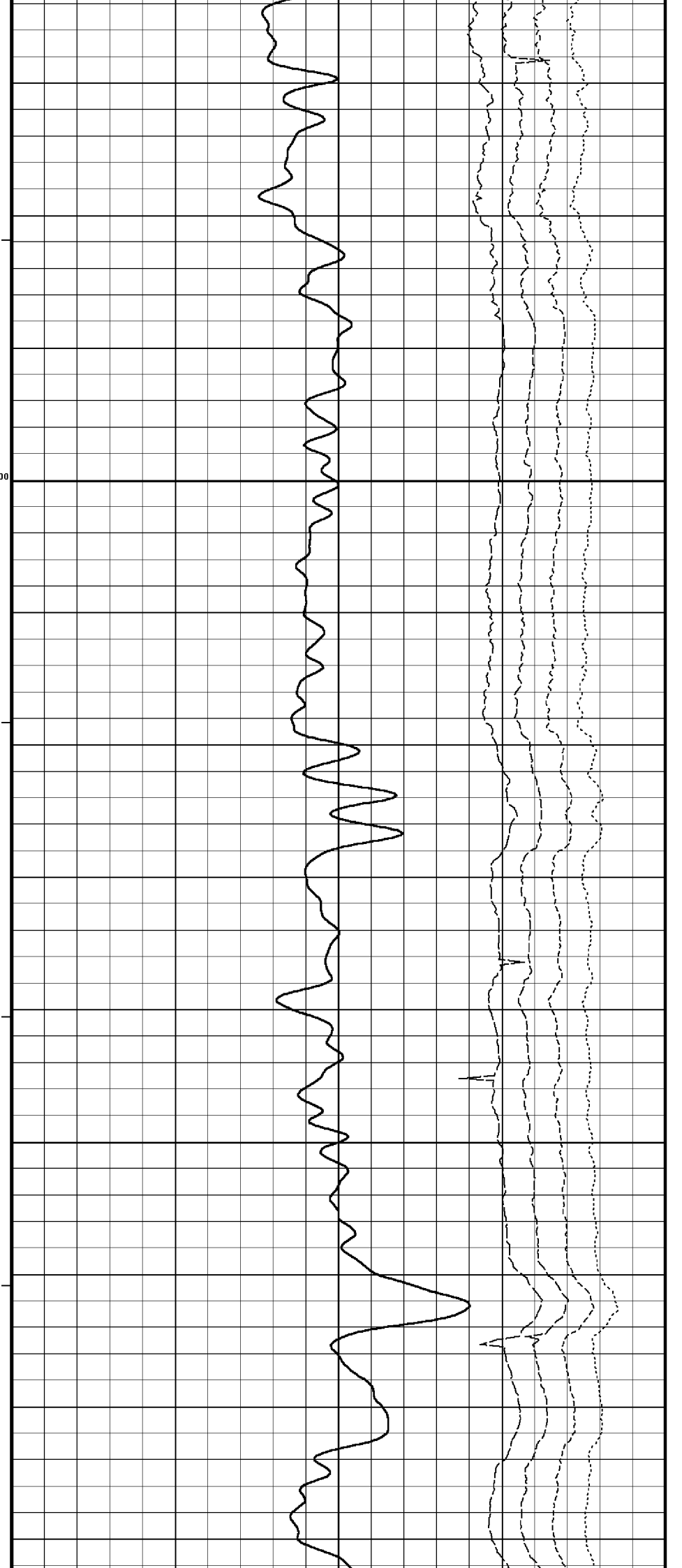
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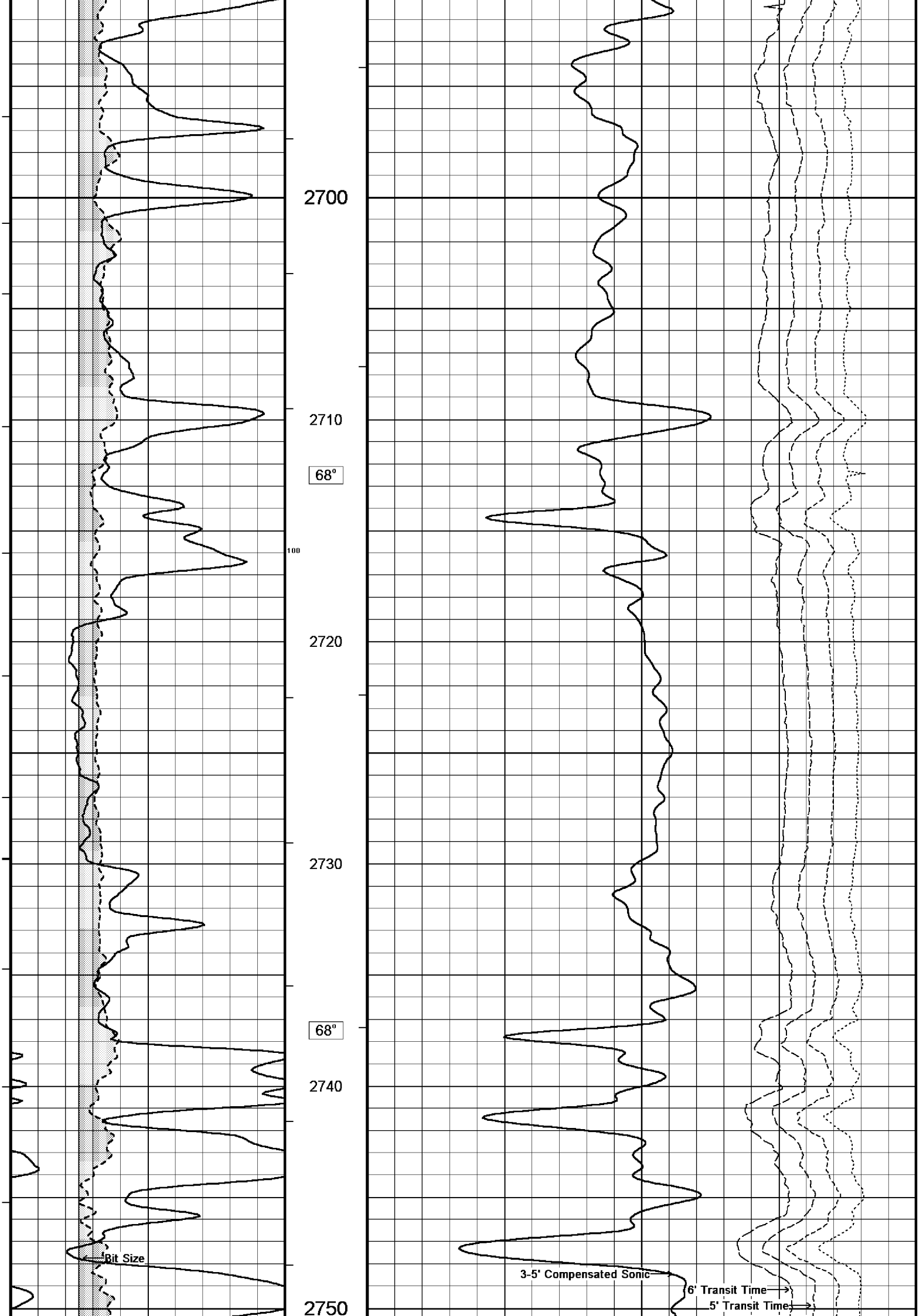
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2680

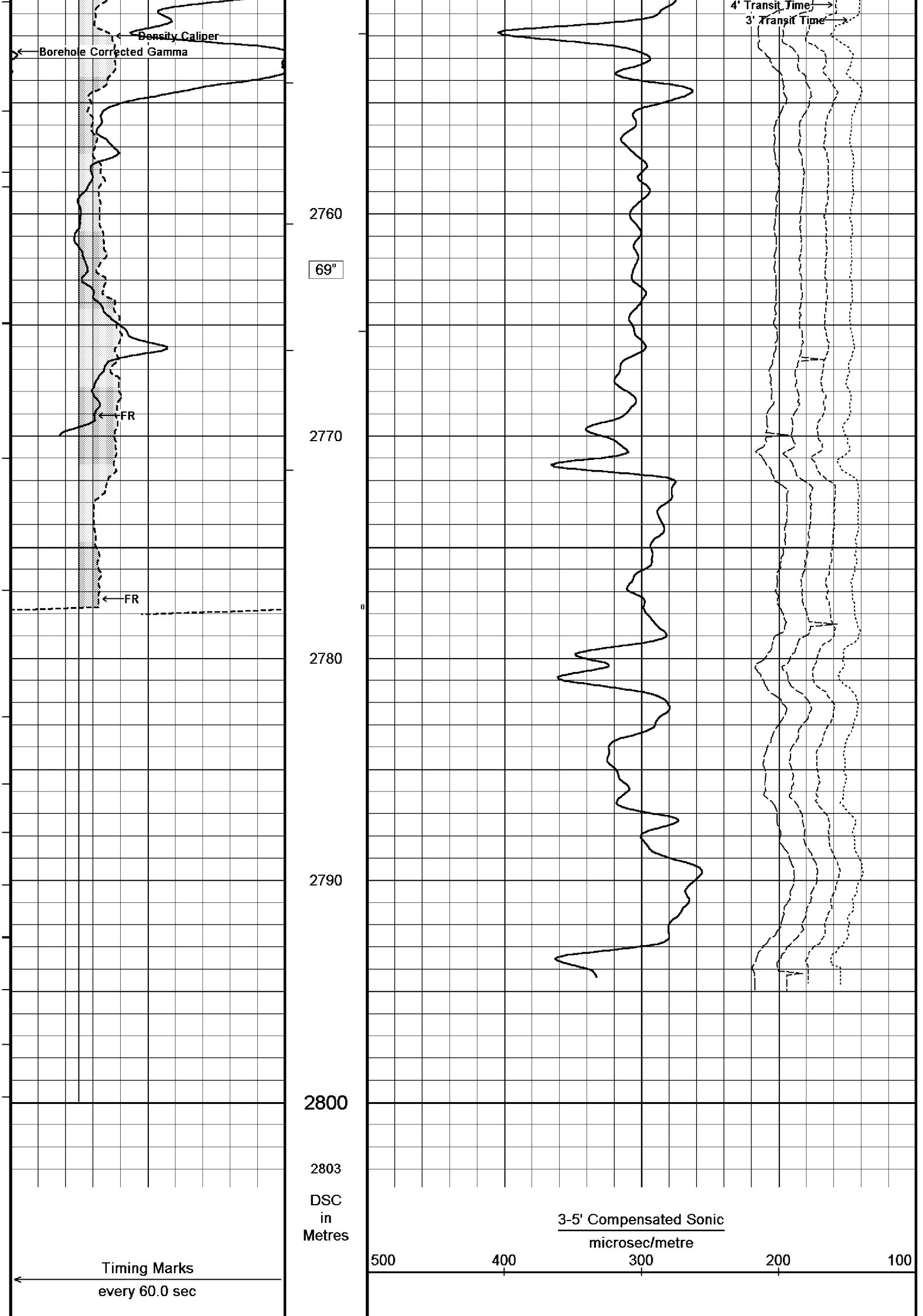
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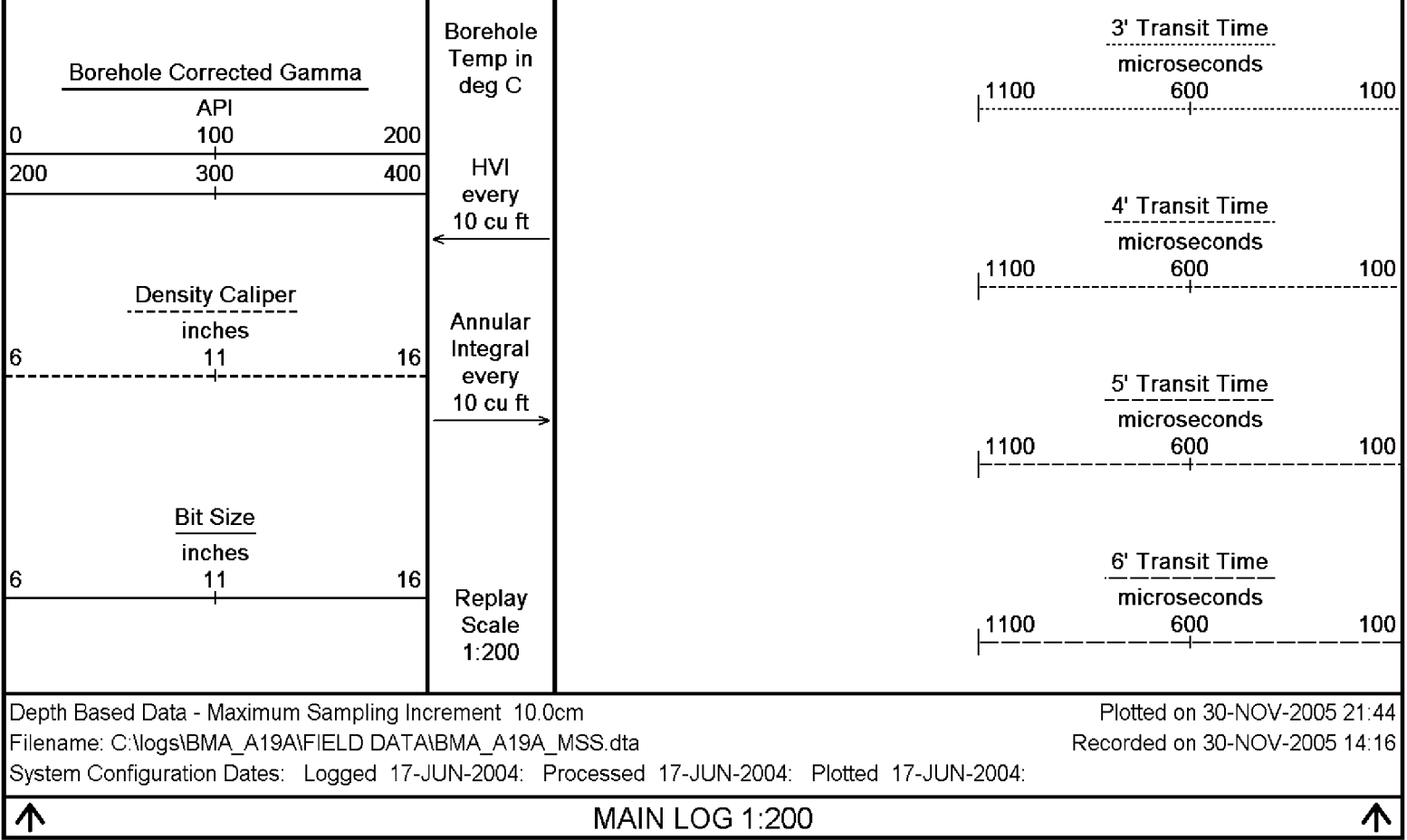
2690











BEFORE SURVEY CALIBRATION				
C:\logs\BMA_A19A\FIELD DATA\BMA_A19A_TIME_LOG14.dta				
General Constants All 000				
General Parameters				
Mud Resistivity	0.113	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	None			
Rwa Parameters				
Porosity used	Limestone Sonic 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 7-NOV-2005,03:12	
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-NOV-2005 03:17	
Background	21	14		
Calibrator (Gross)	1367	923		
Calibrator (Net)	1346	909		
Gamma Constants MCG 142				
Gamma Calibrator Number	060			

Mud Density	1.21	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm

# Caliper Calibration MPD 083

Base Calibration on 28-OCT-2005 18:13

Field Calibration on 7-NOV-2005 03:20

## Base Calibration

Reading No	Measured	Calibrator Size (in)
1	13616	4.01
2	21847	5.99
3	30336	7.98
4	38762	9.94
5	47872	12.01
6	N/A	N/A

## Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.94	7.98

# Sonic Constants MSS 066

Maximum Boundary Contrast	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	No	
Use 4' Waveform to derive TR	No	
Use 5' Waveform to derive TR	No	
Use 6' Waveform to derive TR	No	
3' Waveform Discriminator Level	0.45	mV
4' Waveform Discriminator Level	0.45	mV
5' Waveform Discriminator Level	0.35	mV
6' Waveform Discriminator Level	0.35	mV
3' Waveform Filter	None	
4' Waveform Filter	None	
5' Waveform Filter	None	
6' Waveform Filter	None	
Semblance Level	0.50	
Semblance Window Width	120.00	micro-sec
Sonic 1 Despiker	100.00	micro-sec/ft
Sonic 2 Despiker	100.00	micro-sec/ft

# DOWNHOLE EQUIPMENT

C:\logs\BMA\_A19A\FIELD DATA\BMA\_A19A\_TIME\_LOG14.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



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

MIS 34 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

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

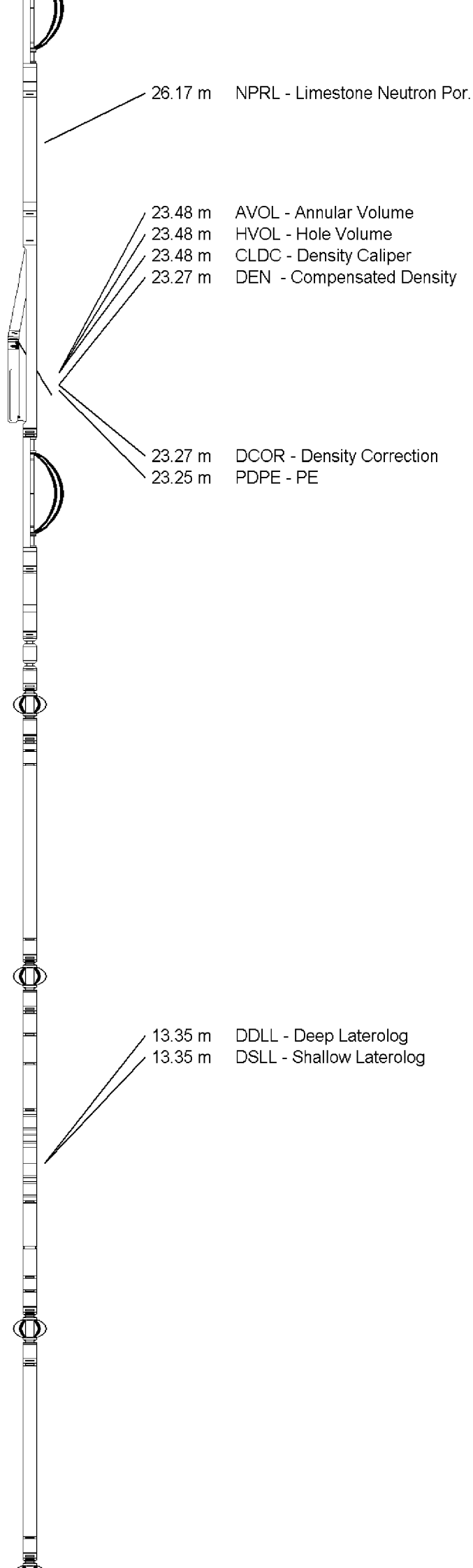
Compact Inline Standoff B  
MIS 141 Length: 0.65 m Weight: 15.4 lb

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



Compact In-line Standoff B  
MIS 129 Length: 0.65 m Weight: 15.4 lb

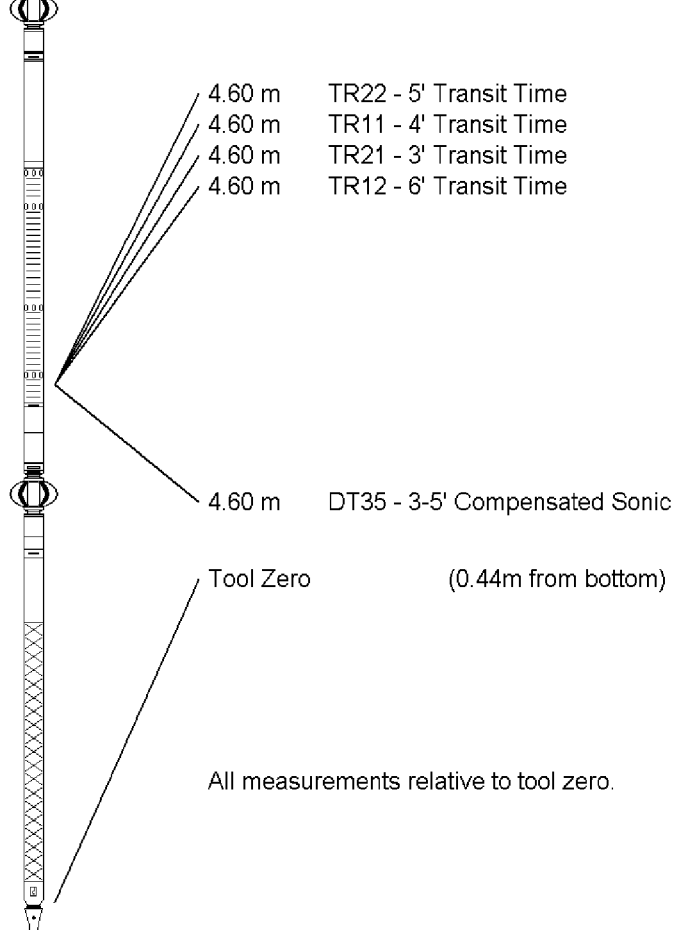
Compact Sonic  
MSS 66 Length: 3.82 m Weight: 72.8 lb

Compact In-line 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



COMPANY	ESSO AUSTRALIA PTY LTD
WELL	BREAM A19A
FIELD	BREAM
PROVINCE/COUNTY	BASS STRAIT
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing	metres	First Reading	2787.60	metres
Elevation Drill Floor 32.82	metres	Depth Driller	2804.00	metres
Elevation Ground Level -59.40	metres	Depth Logger	2801.00	metres



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1:200 MD