



PRECISION

COMPENSATED SONIC

Compact

1:200 TVD

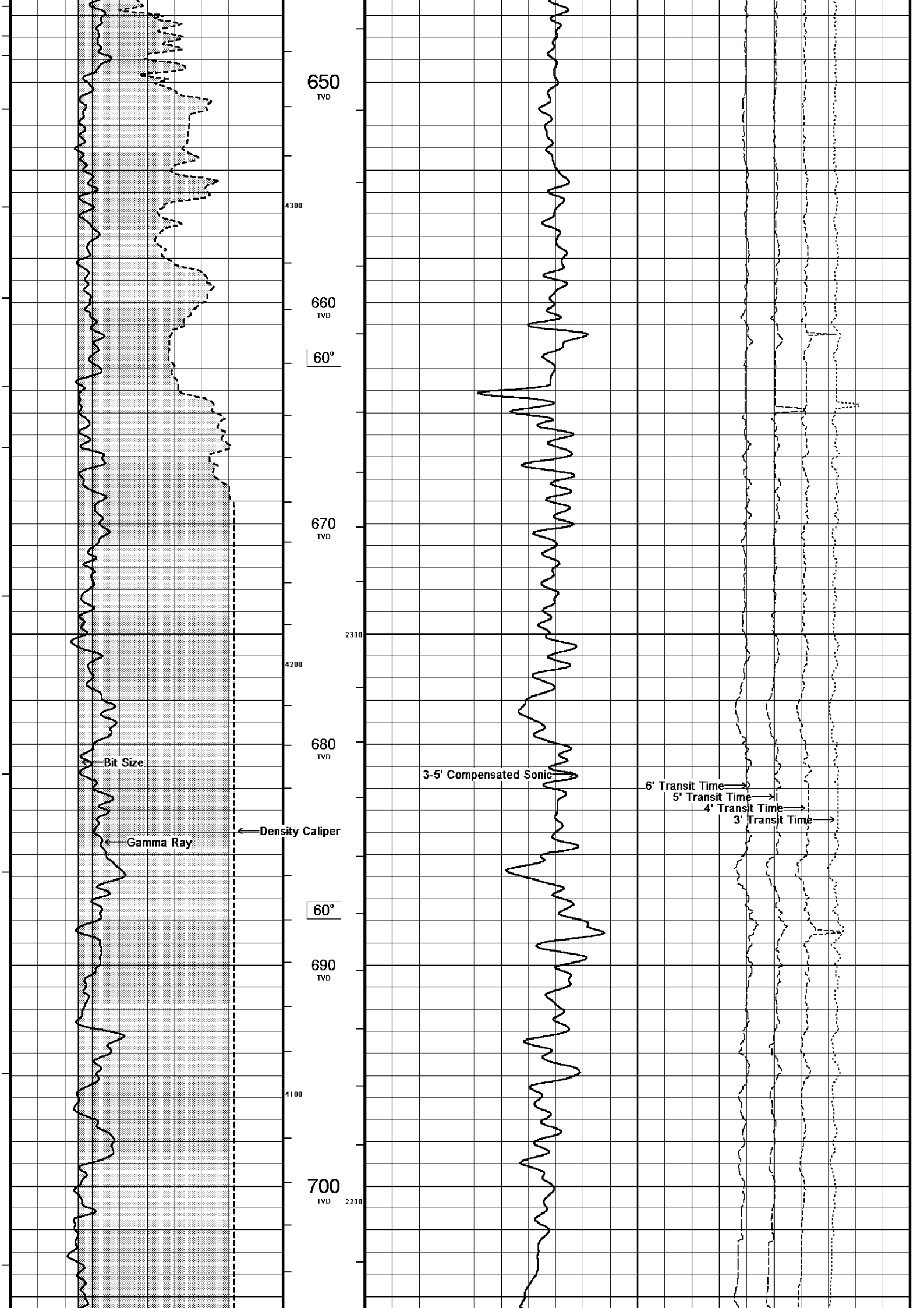
COMPANY	ESSO AUSTRALIA PTY.LTD			
WELL	WKF W20A			
FIELD	KINGFISH GDA94			
PROVINCE/COUNTRY	BASS STRAIT, VICTORIA			
COUNTRY/STATE	AUSTRALIA			
LOCATION	S 38 35 34.835, E 148 6 19.406			
	N 5727806.701 m, E 596264.969 m			
	FIELD PRINT			
LSD	SEC	TWP	RGE	Other Services
				DUAL LATEROLOG
API Number	COMPENSATED SONIC			
Permit Number	PHOTO DENSITY			
Permanent Datum L	, Elevation 0.0 metres			
Log Measured From DF @ 33.4m	above Permanent Datum			
Drilling Measured From DF				
Date	24-MAY-2006			
Run Number	ONE			
Depth Driller	2320.75 metres			
Depth Logger	2320.00 metres			
First Reading	2318.40 metres			
Last Reading	629.70 metres			
Casing Driller	629.70 metres			
Casing Logger	629.70 metres			
Bit Size	8.50 inches			
Hole Fluid Type	KCL/PHPA			
Density / Viscosity	1.17 g/cc 28.00 CP			
PH / Fluid Loss	9.00 2.90 ml/30Min			
Sample Source	FLOWLINE			
Rm @ Measured Temp	0.108 @ 25.0 ohm-m			
Rmf @ Measured Temp	0.087 @ 25.0 ohm-m			
Rmc @ Measured Temp	0.152 @ 25.0 ohm-m			
Source Rmf / Rmc	MEAS MEAS			
Rm @ BHT	0.047 @ 87.0 ohm-m			
Time Since Circulation	25 HOURS			
Max Recorded Temp	91.00 deg C			
Equipment Name	CML			
Equipment / Base	1 SALE			
Recorded By	R L TENCH, B J R MOSS			
Witnessed By	T LOBO			
LAST CIRC	04:30 23/05			
	Last Line			

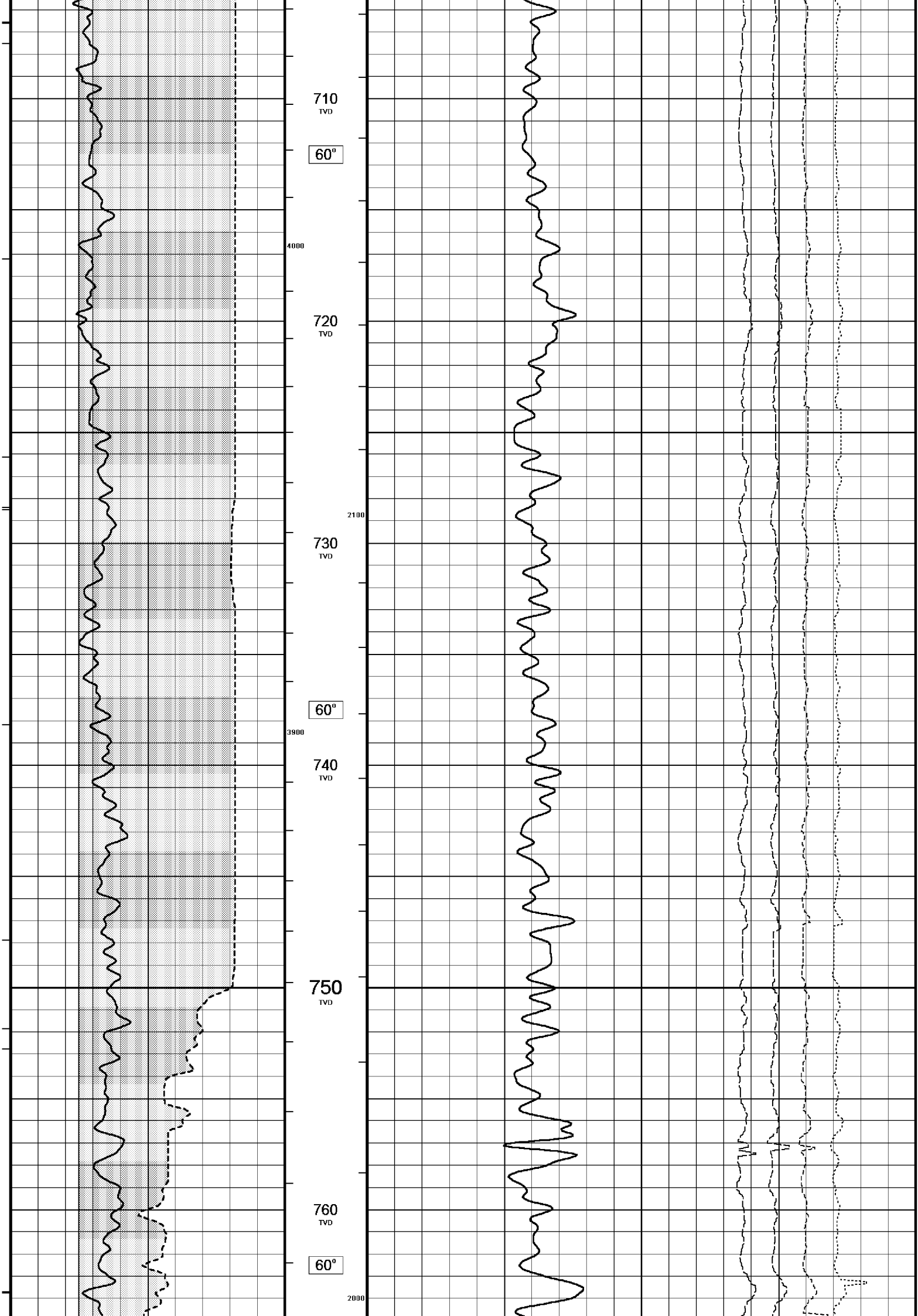
BOREHOLE RECORD		
Bit Size inches	Depth From metres	Depth To metres
8.500	675.00	2946.00

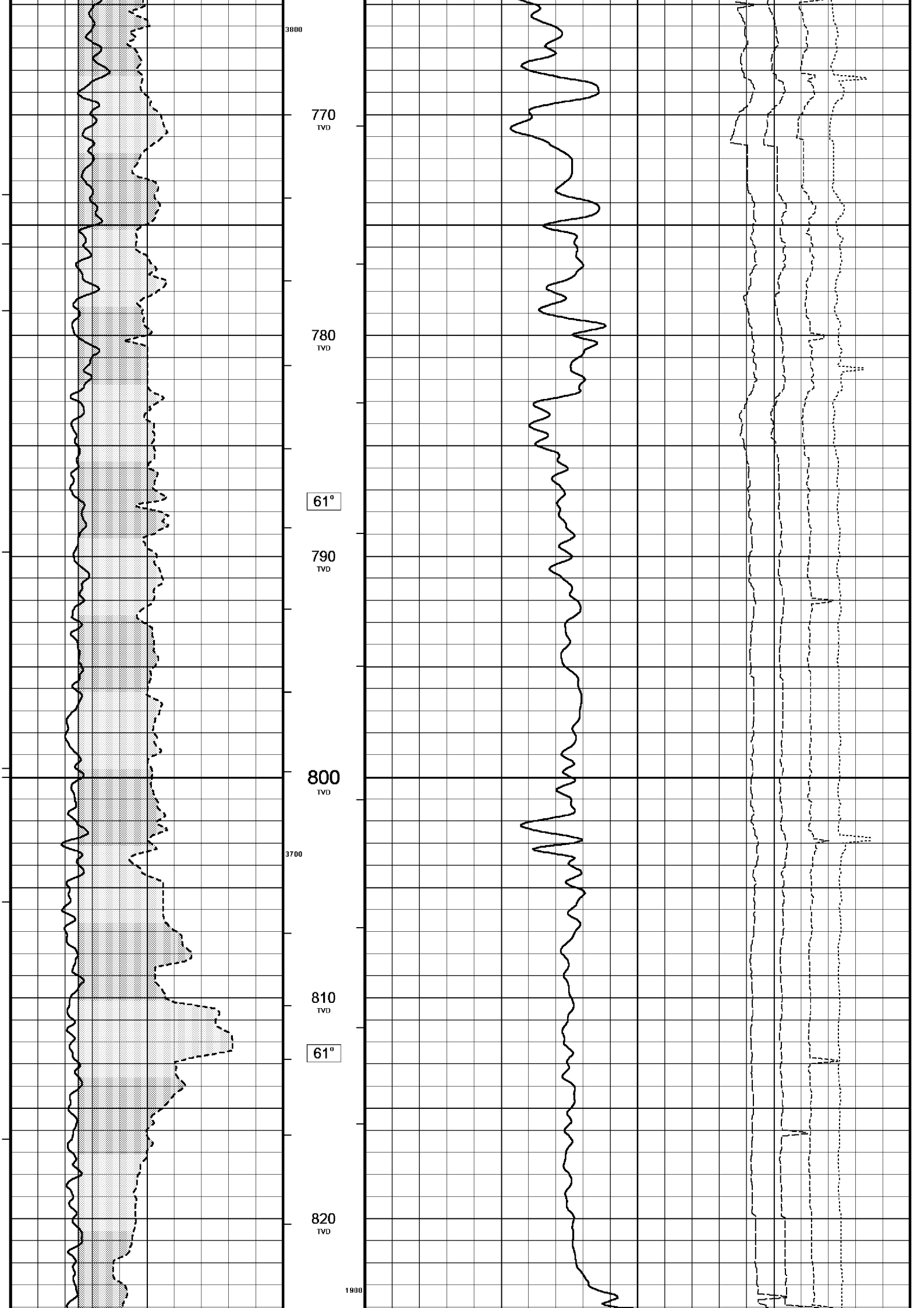
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	10.750	0.00	675.00	40.50

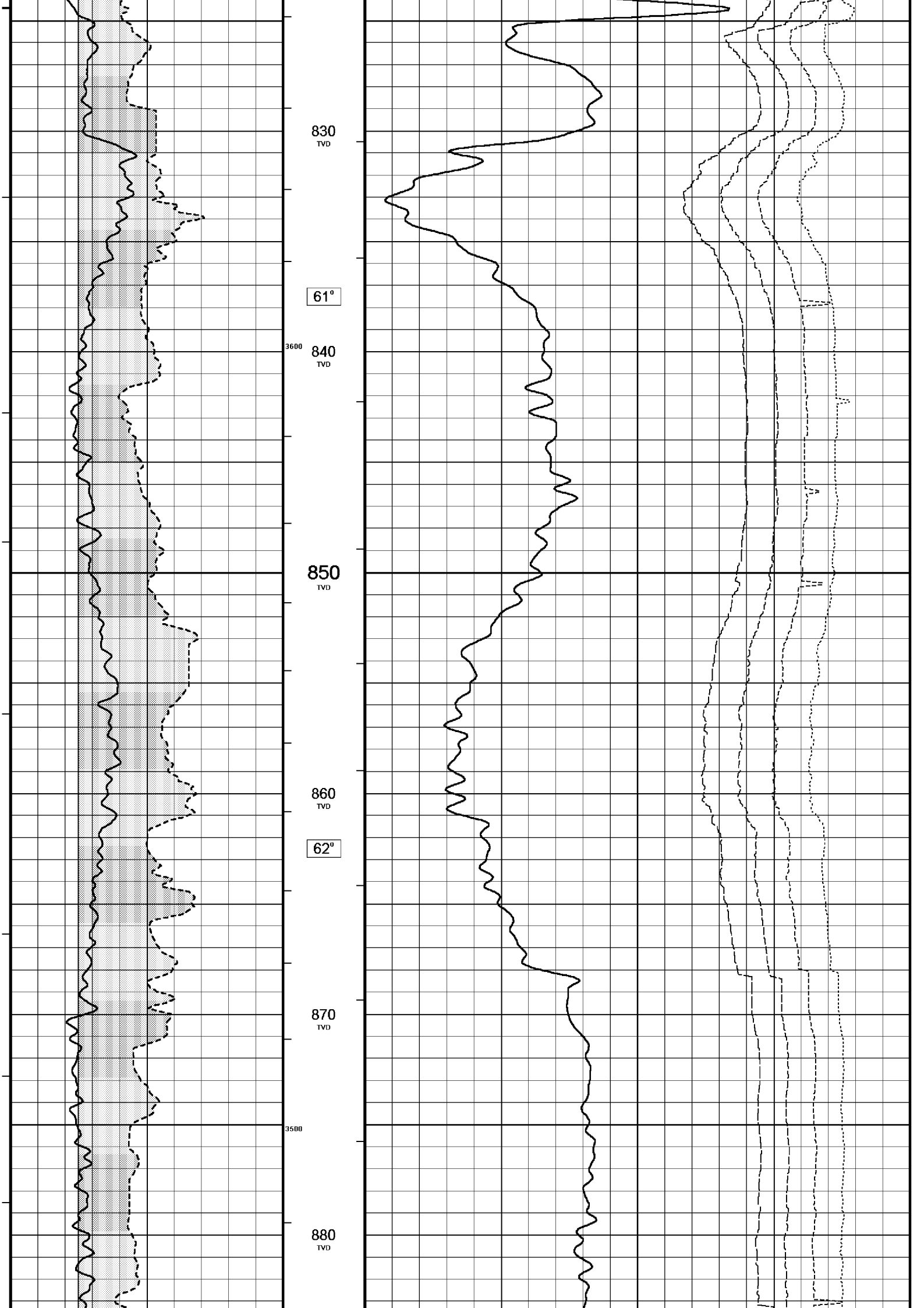
REMARKS
RIG: NABORS 453
5" SHUTTLE/MEMORY COMPACT OPERATION.
CREW: R TENCH , B MOSS , B GOODWIN, M KOLCZE.
FIELD FINAL LOGS TO BE CORRELATED TO ANADRILL GAMMA LOG.
MAX. TEMPERATURE: 91.2 DEG C AT 2906.3 m MD
MAX. INCLINATION: 75.9 DEG AT 2946 m MD
MAX. DOGLEG SERVERITY: 9.0 DEG/30m AT 706.79 m MD
DEPLOYMENT ANGLE: 75.90 DEG
HVOL: 4390 FT^3
AVOL: 2415 FT^3
LOGGING SPEED 6M/MIN FROM TD TO 2478.78 M MD
LOGGING SPEED 12 M/MIN FROM 2478.78 TO 696.26 M MD
LOGGING SPEED 6 M/MIN FROM 696.26 TO 638.71 M MD

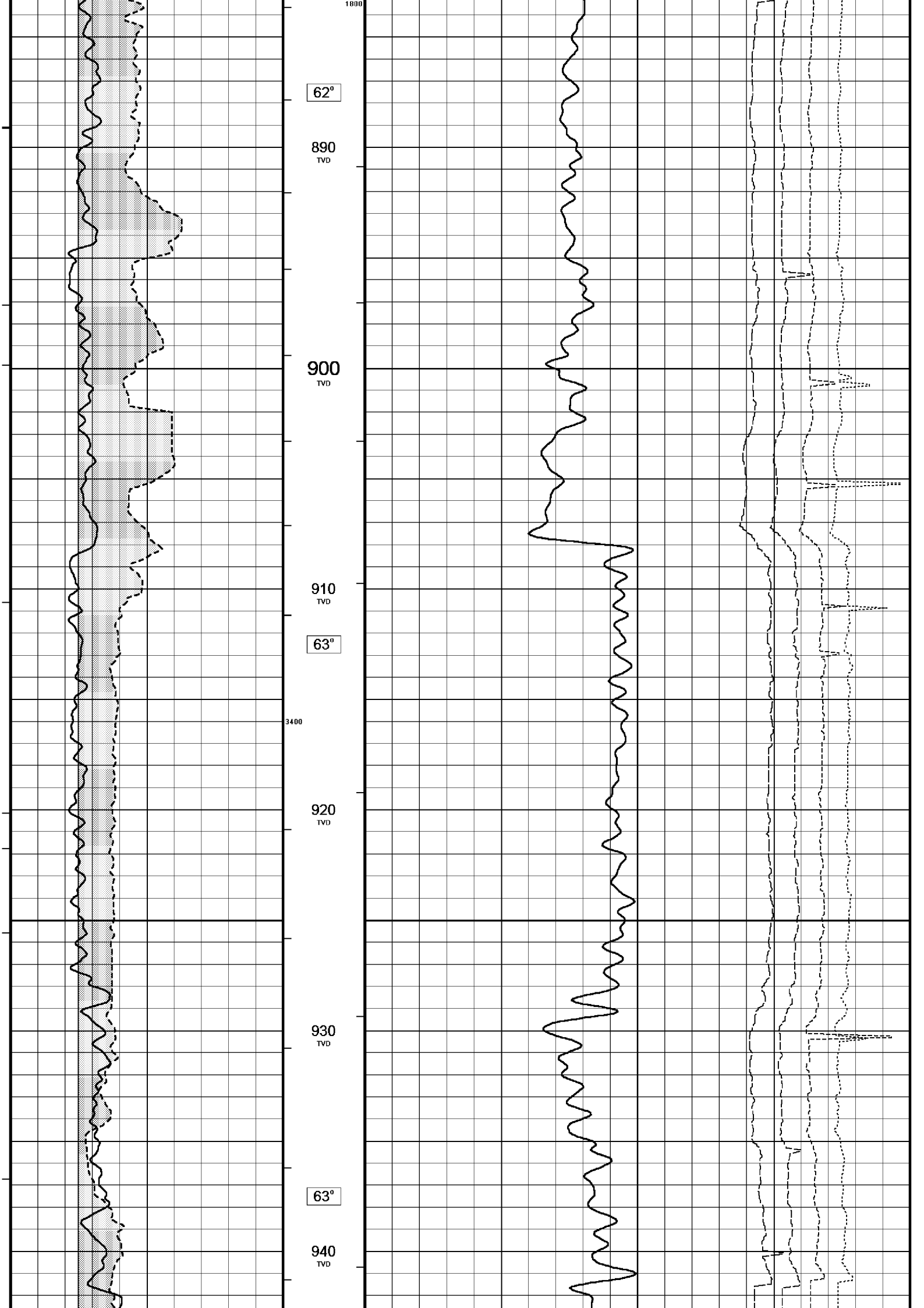
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or

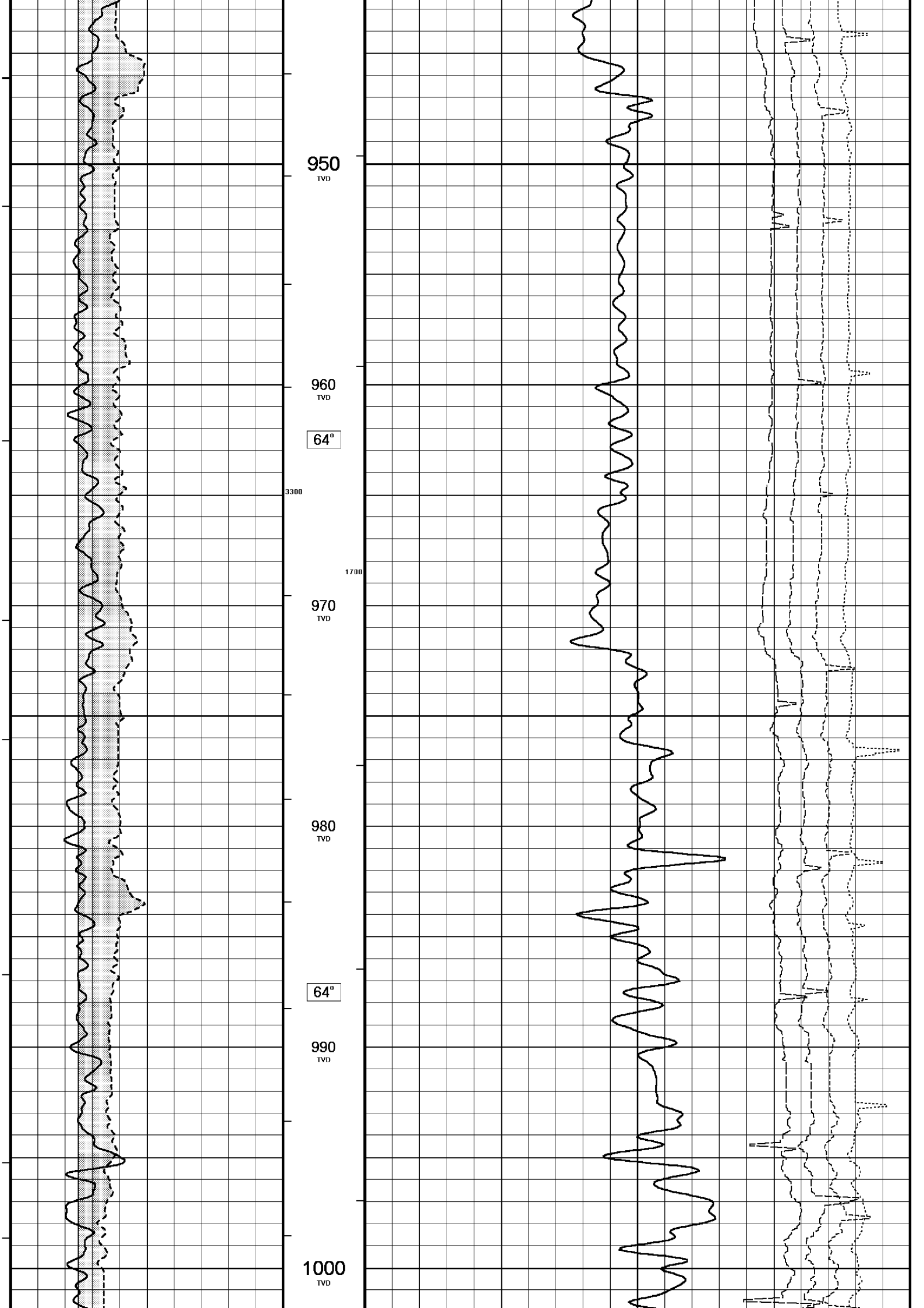


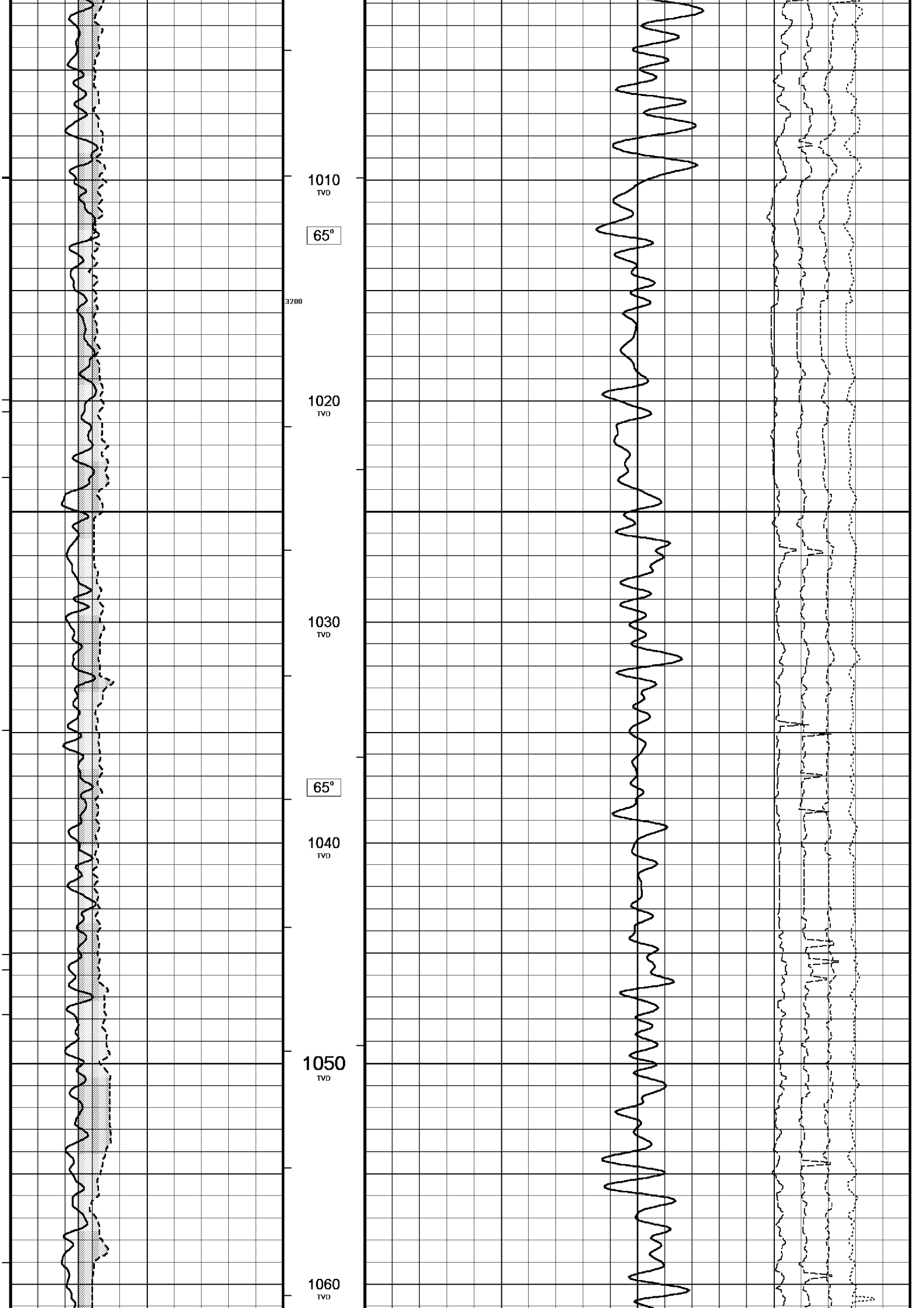


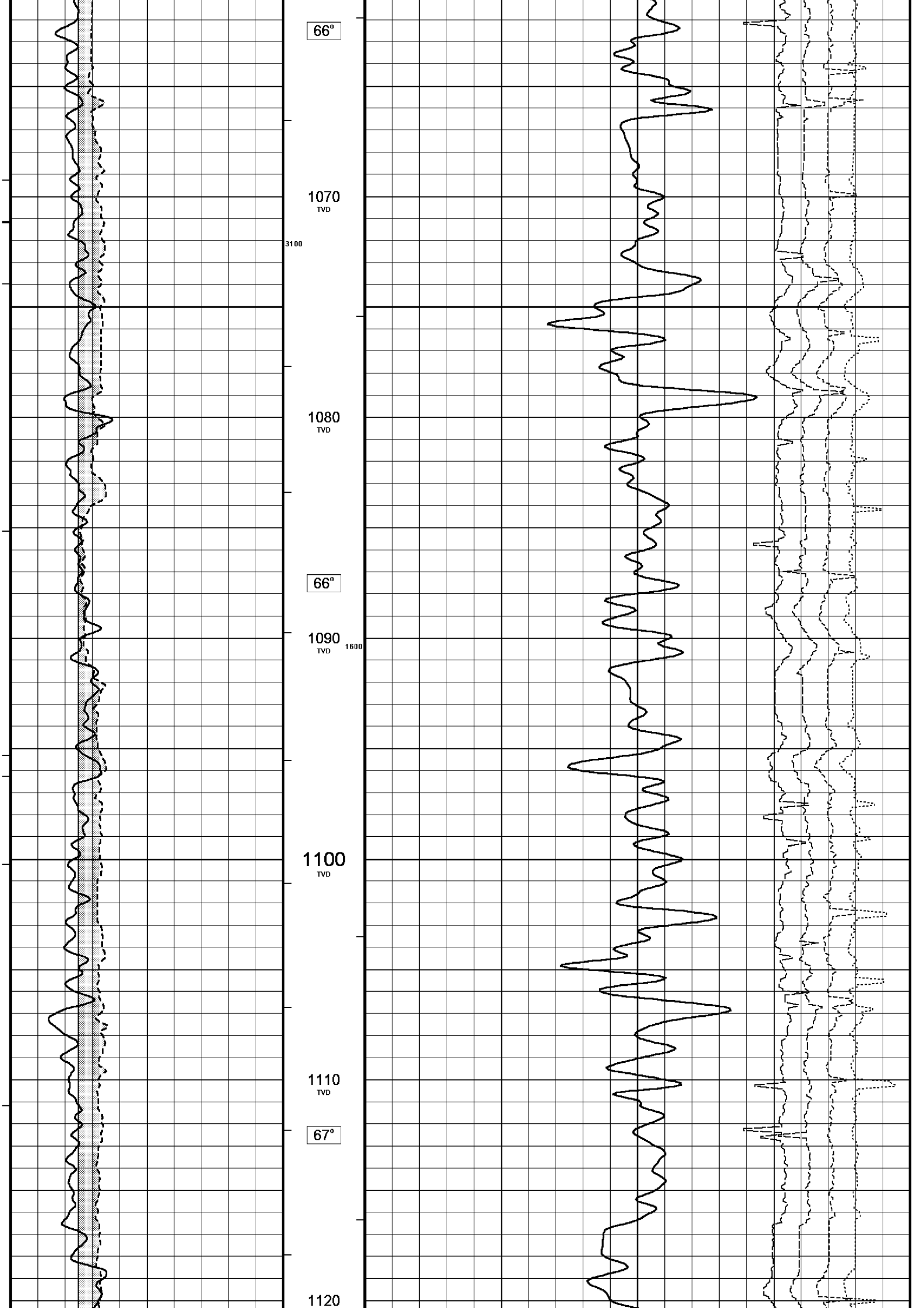


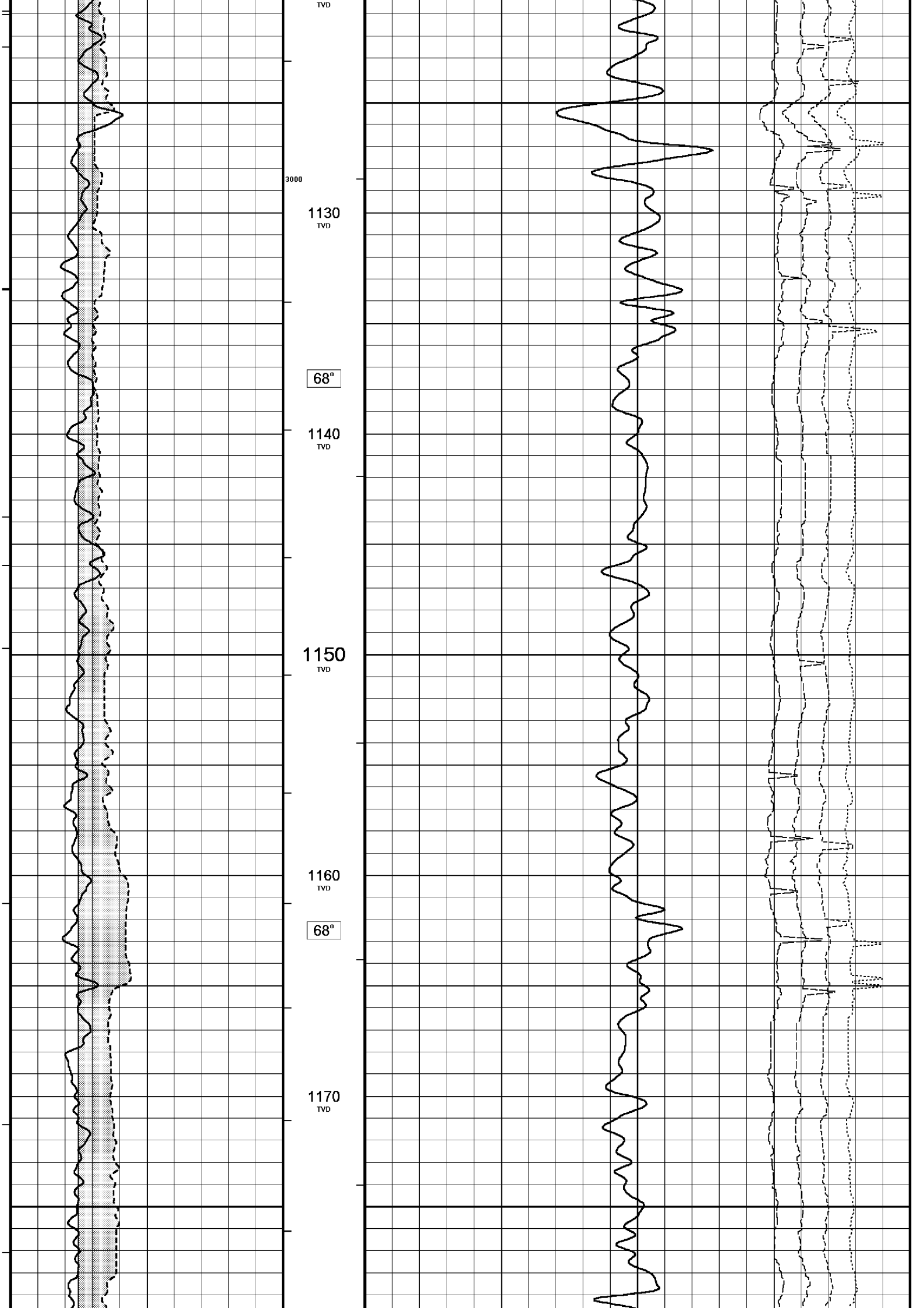


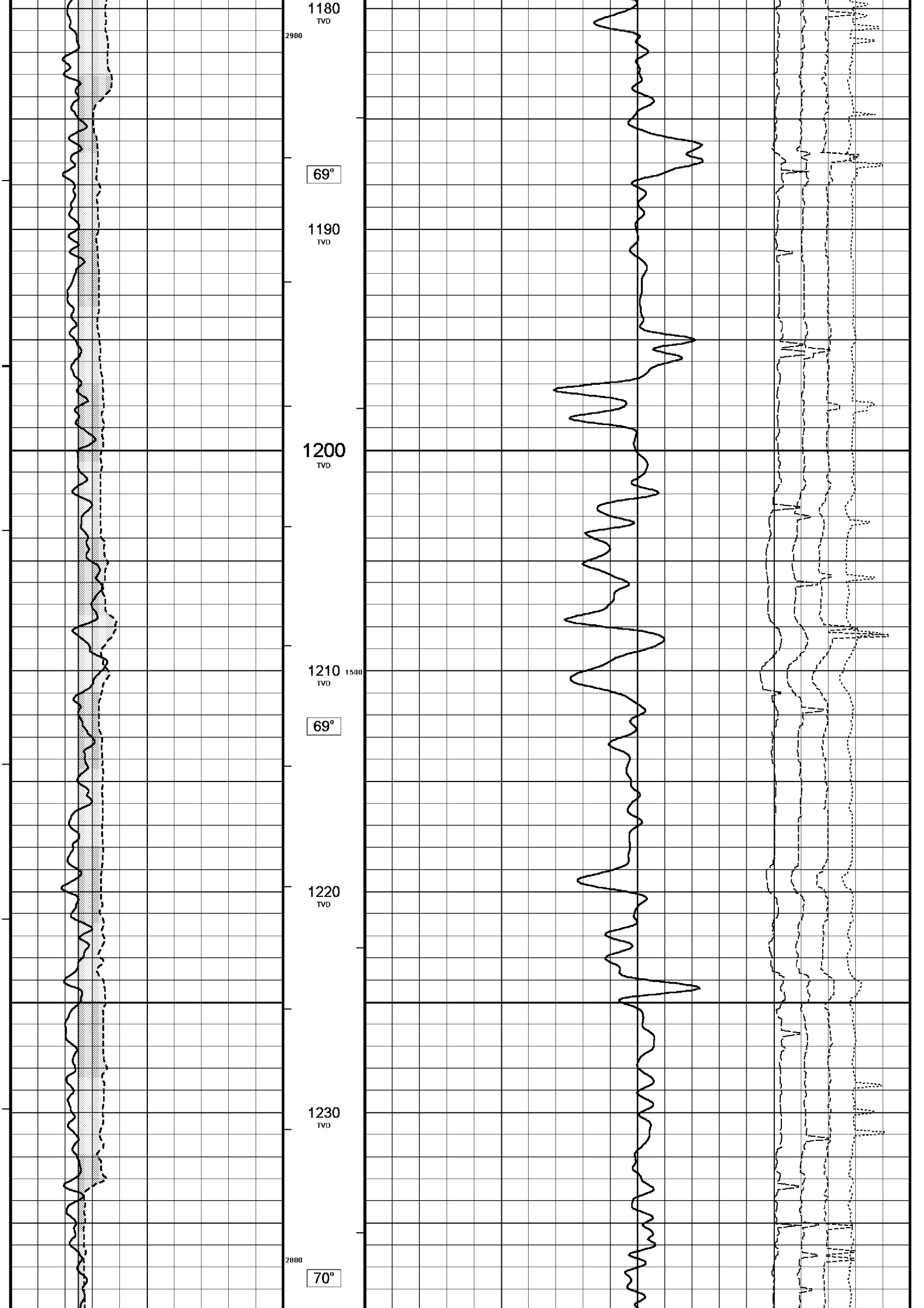


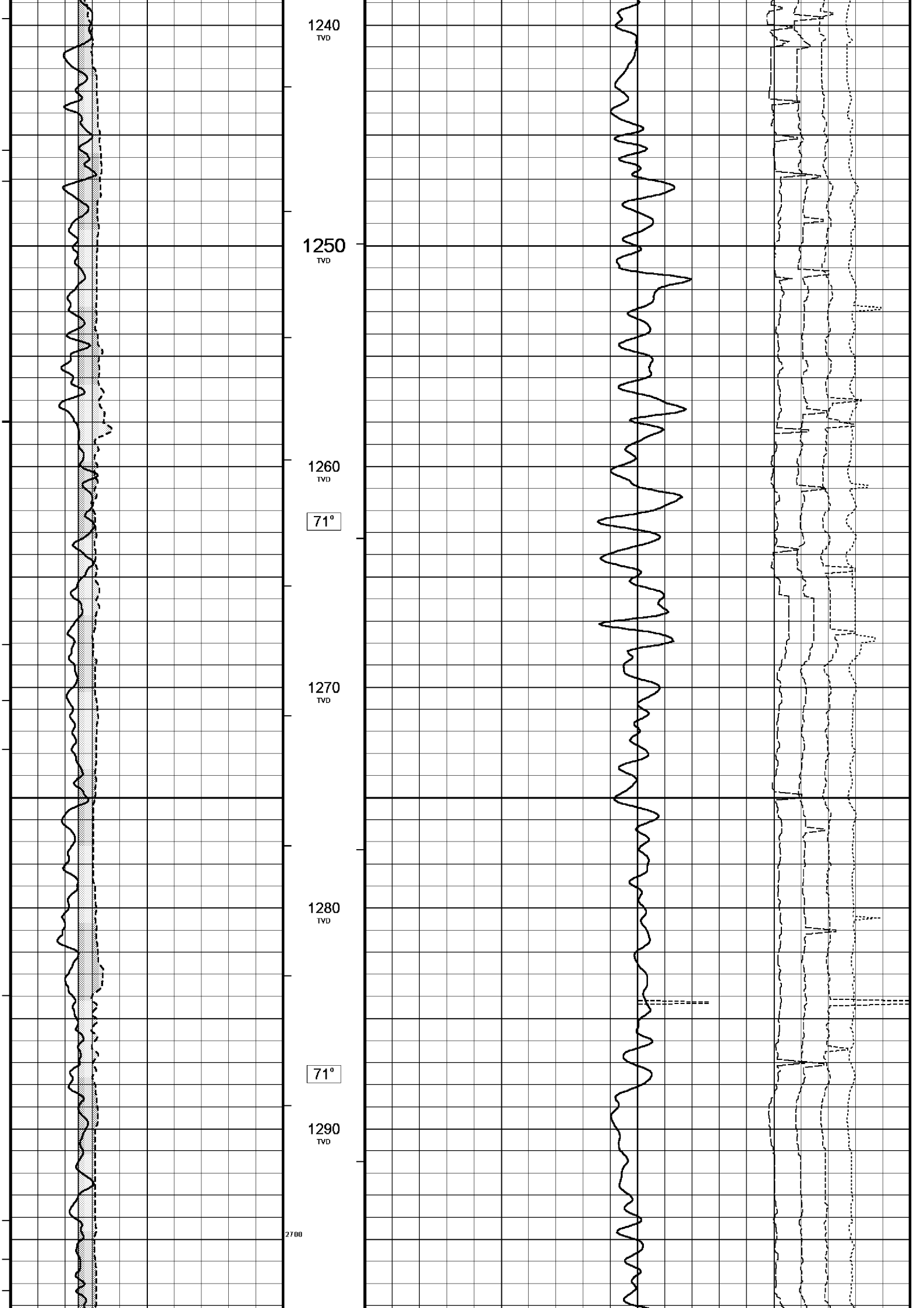


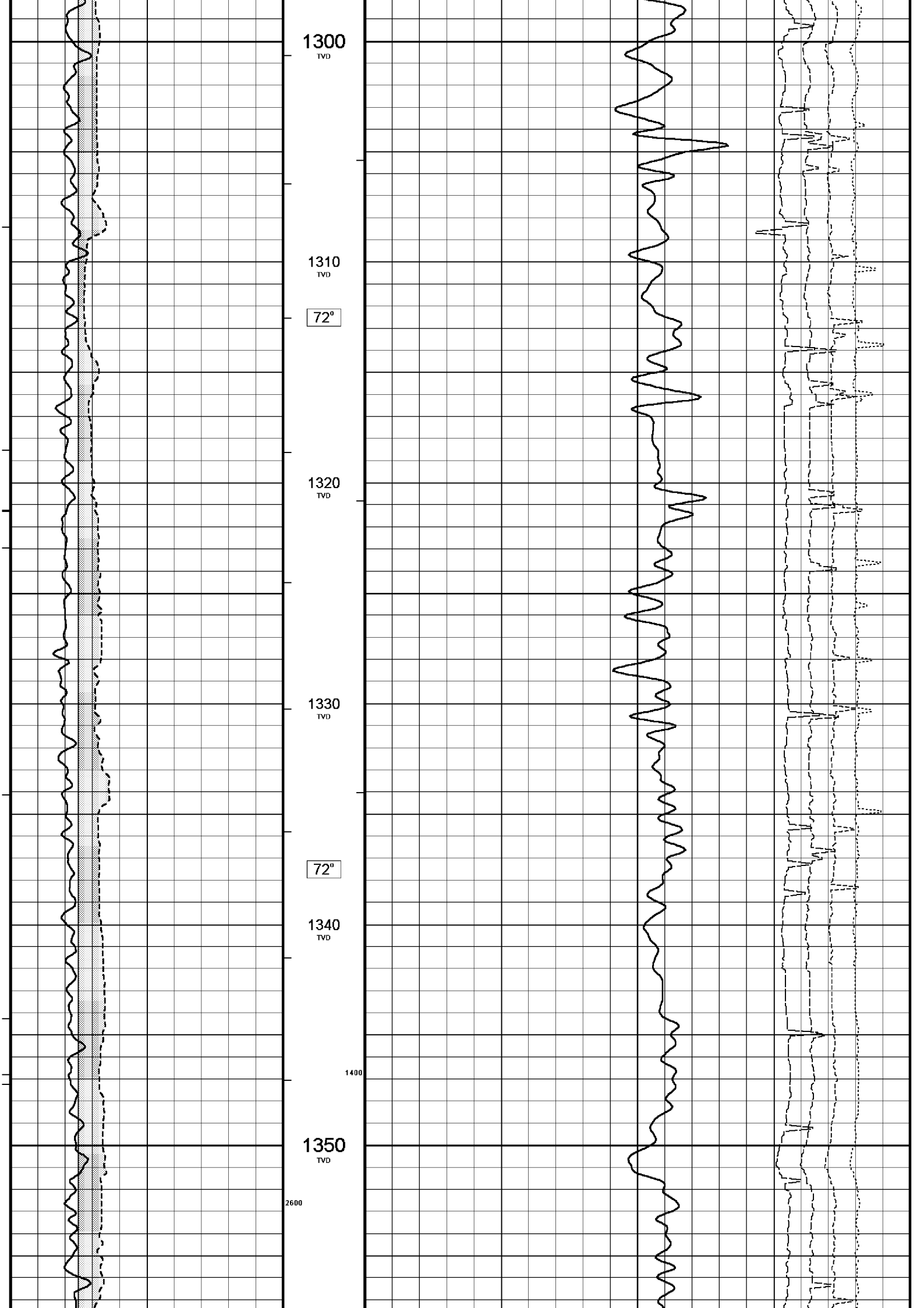


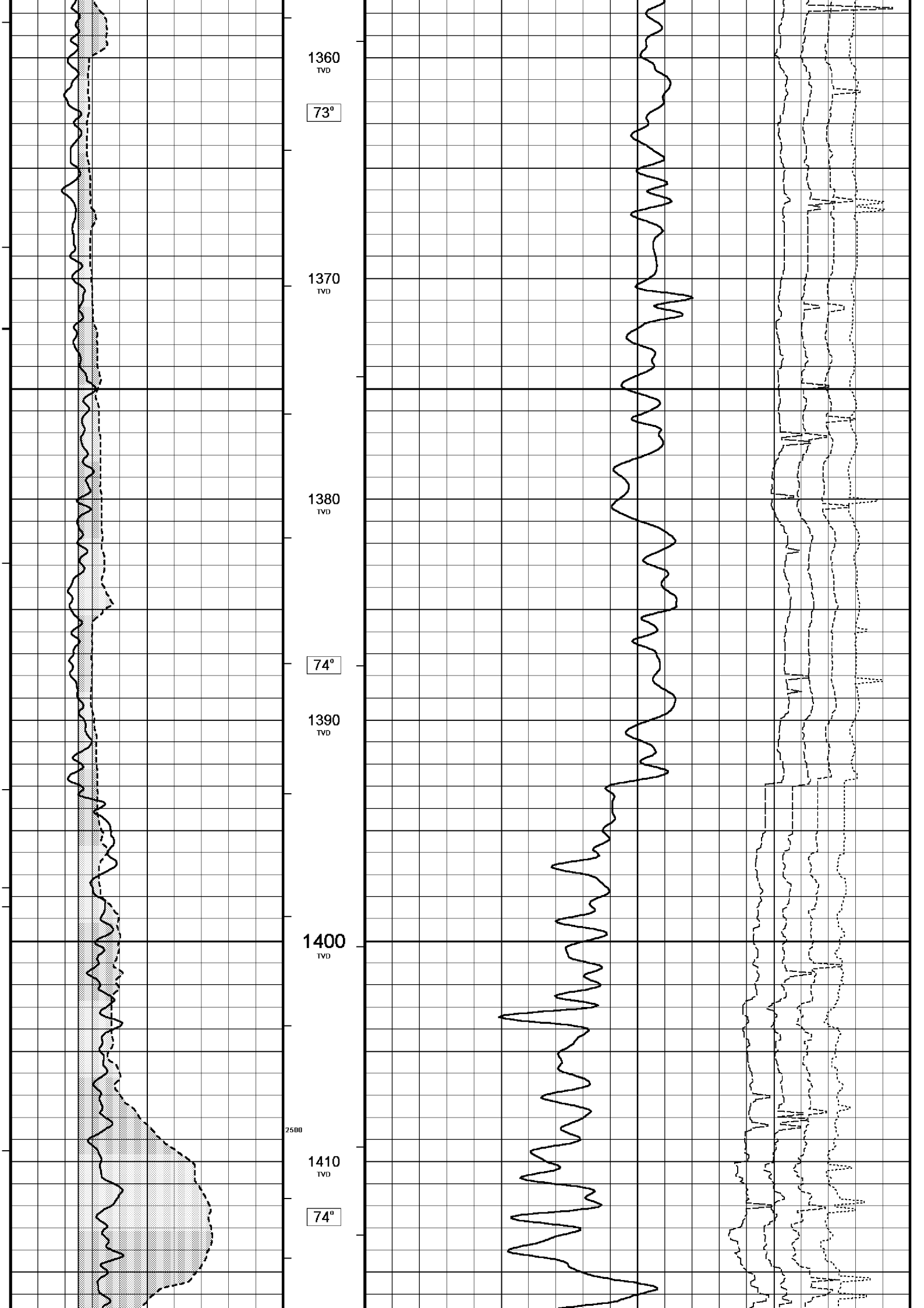


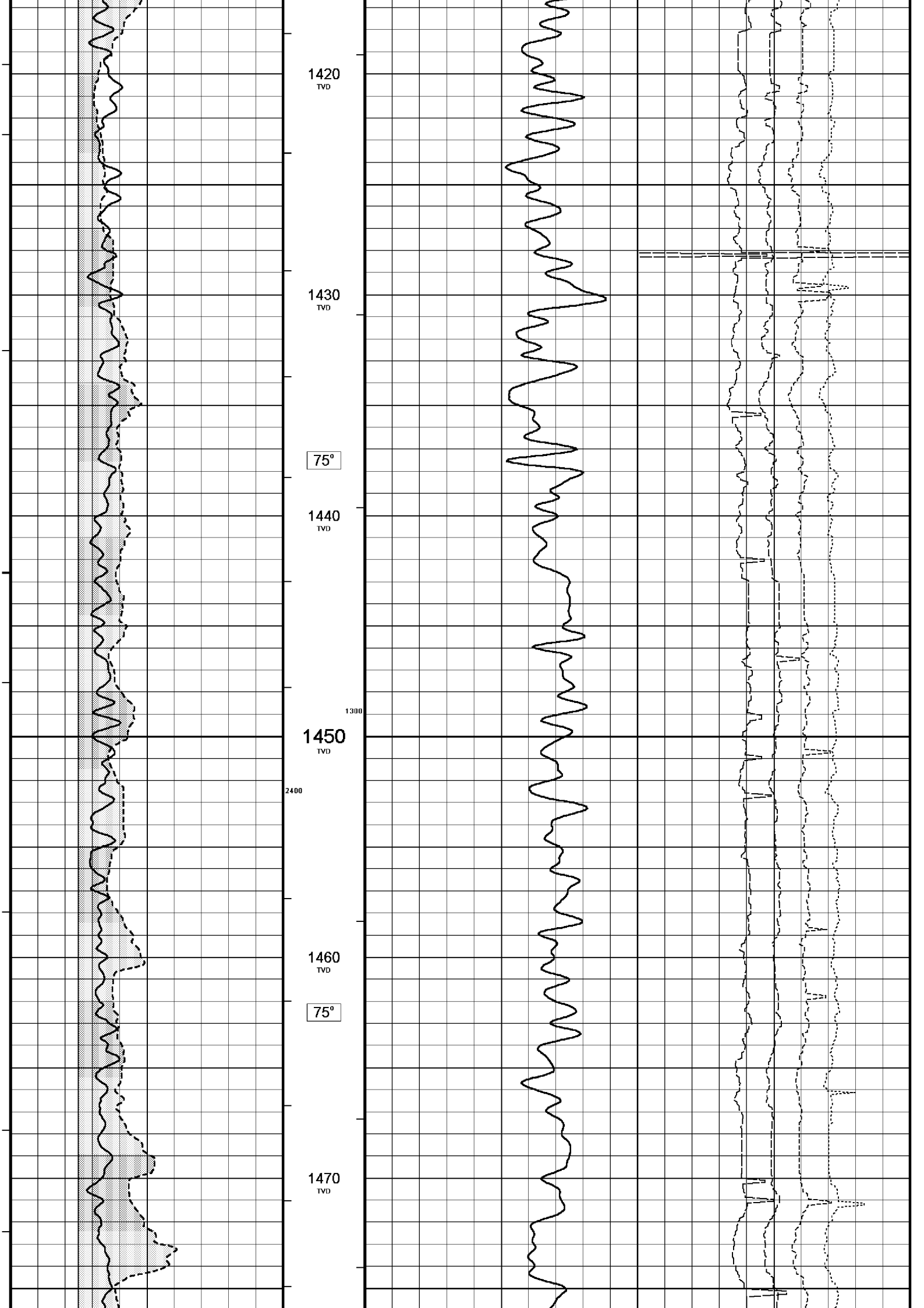


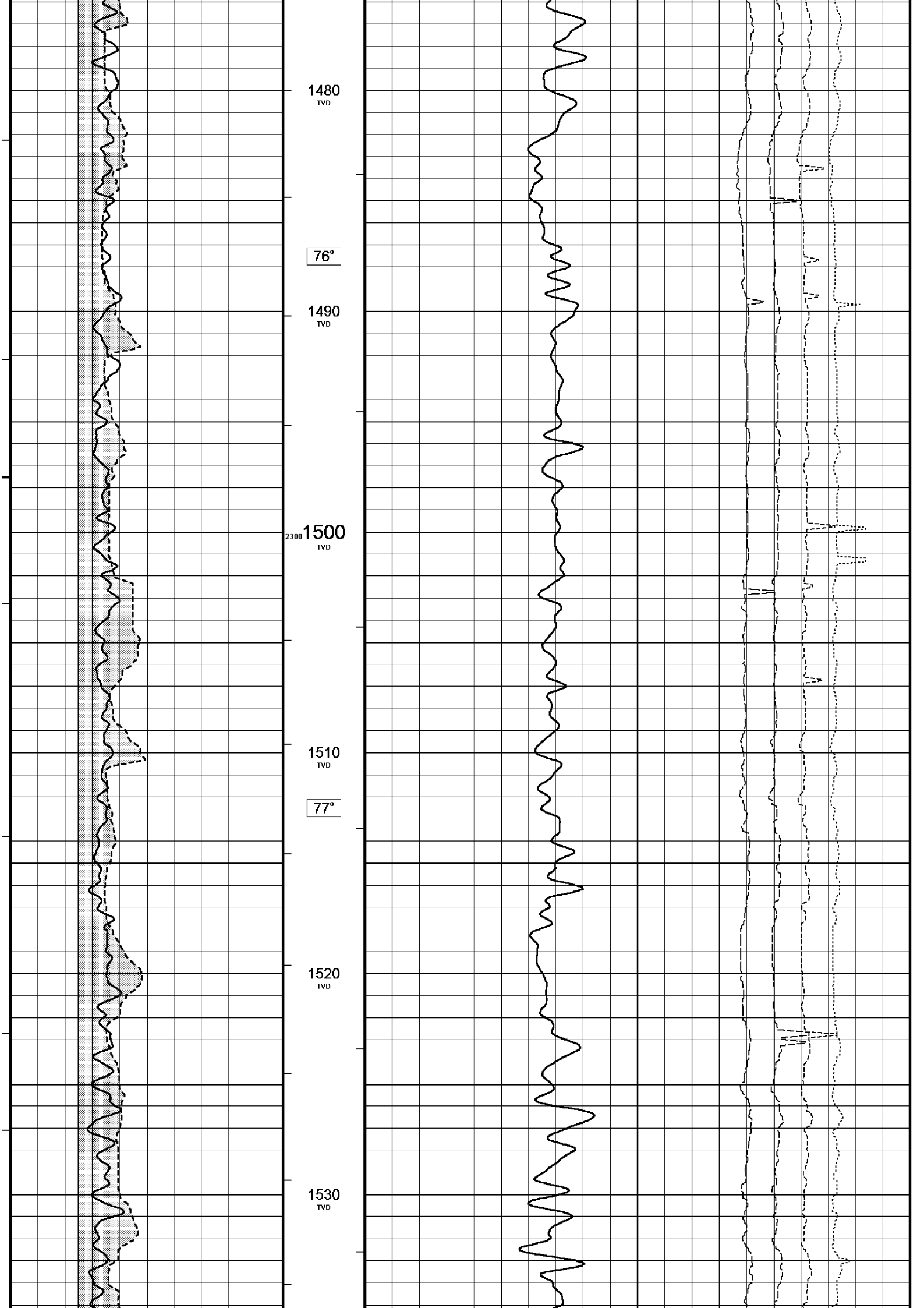


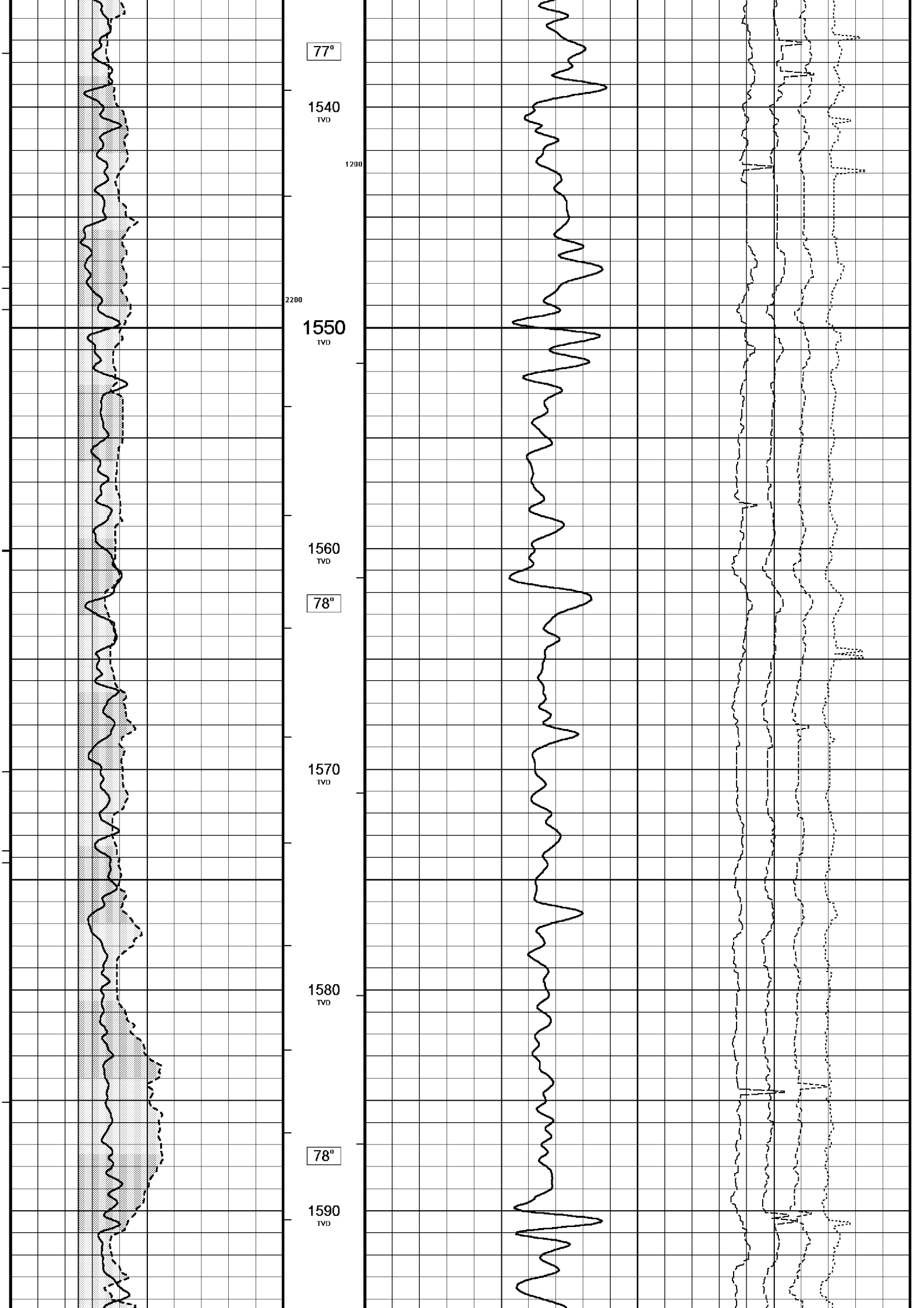


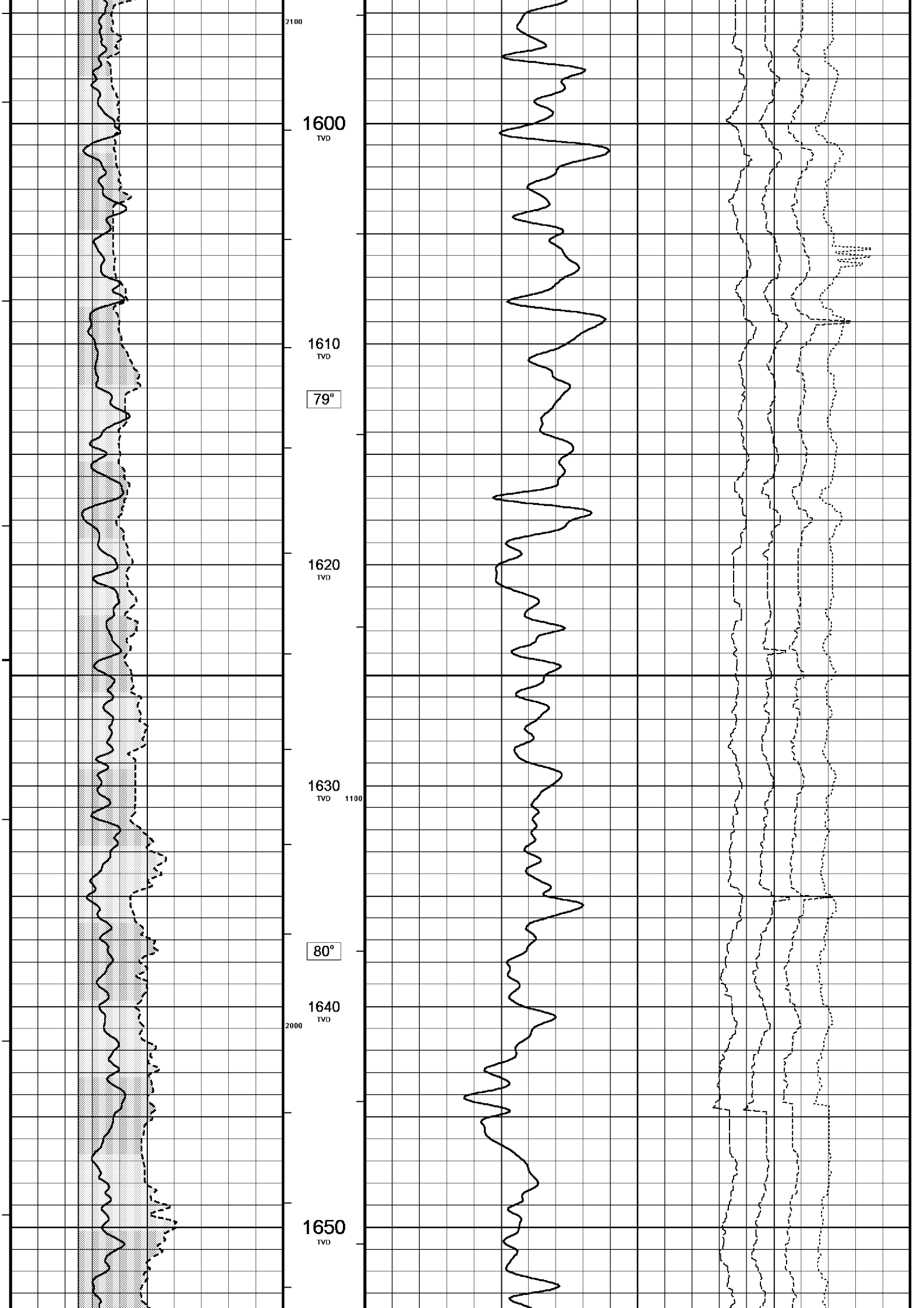


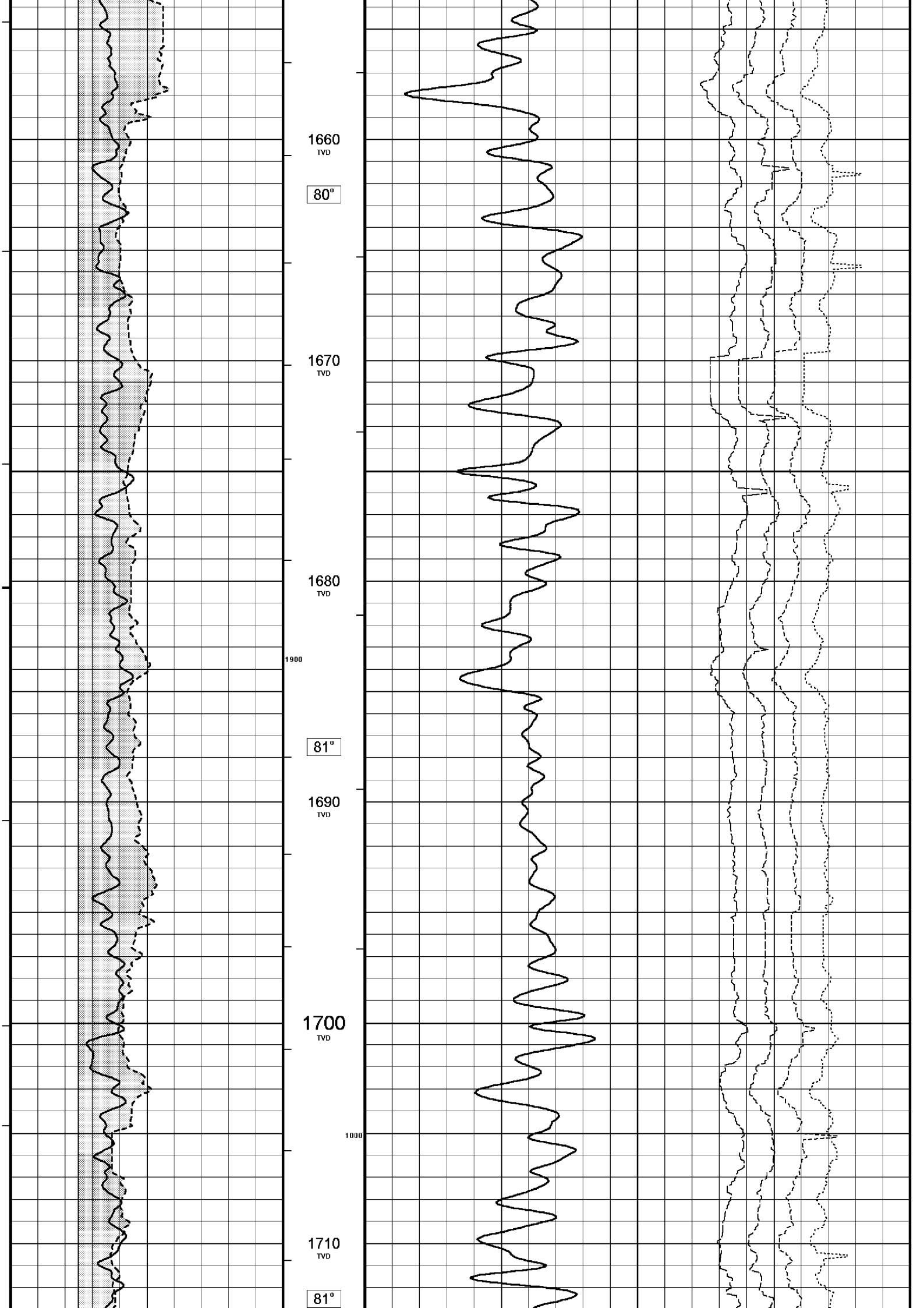


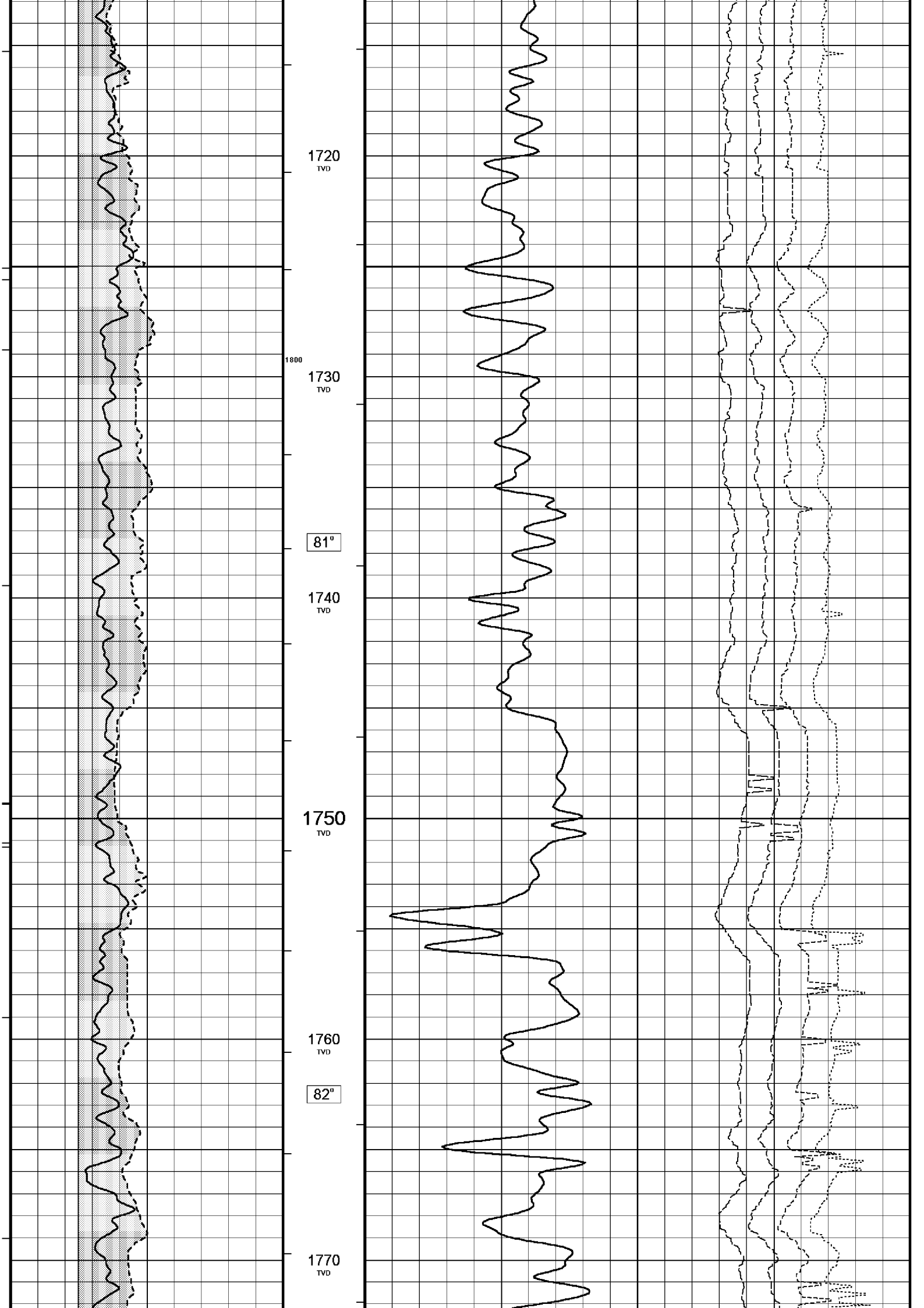


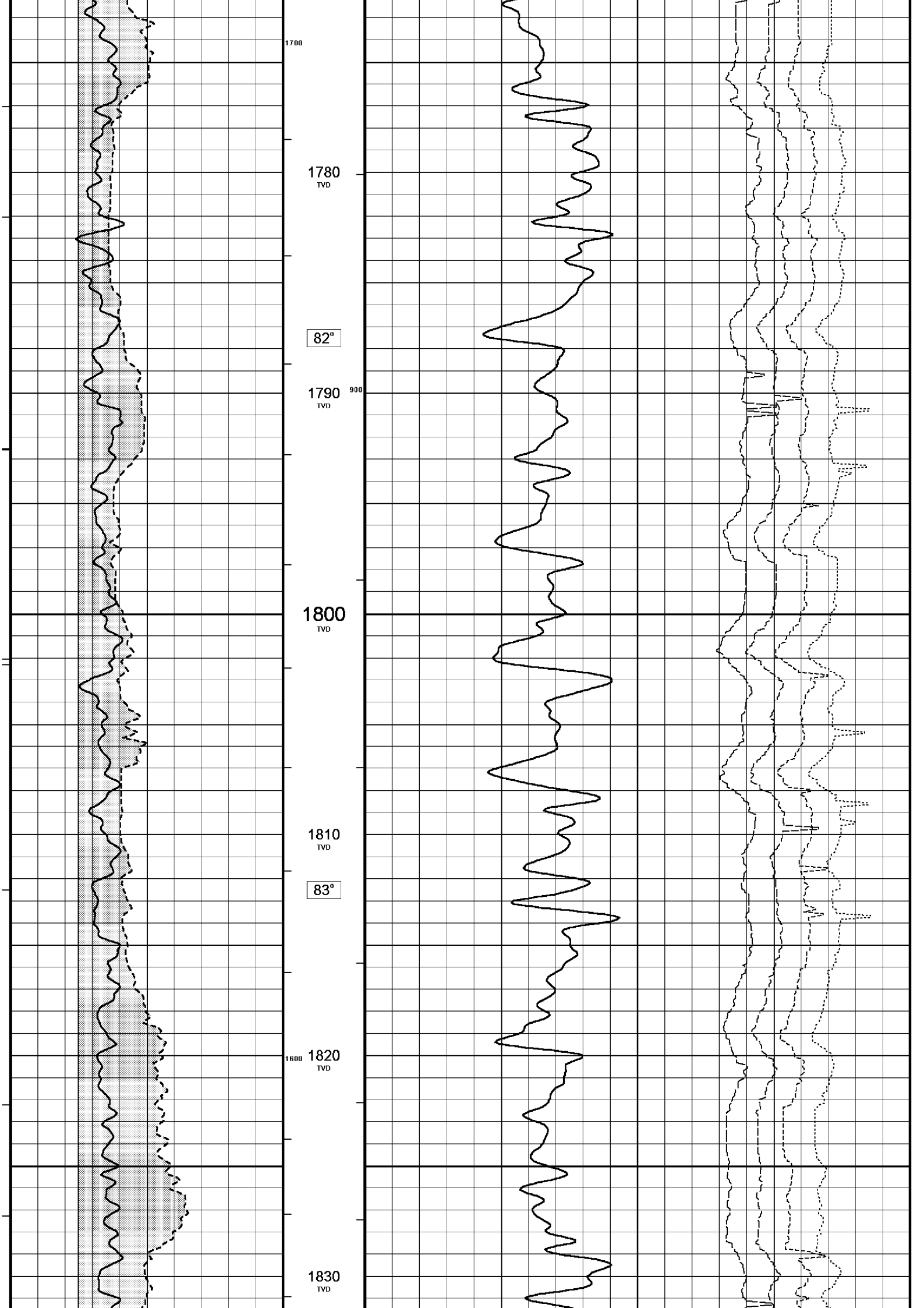


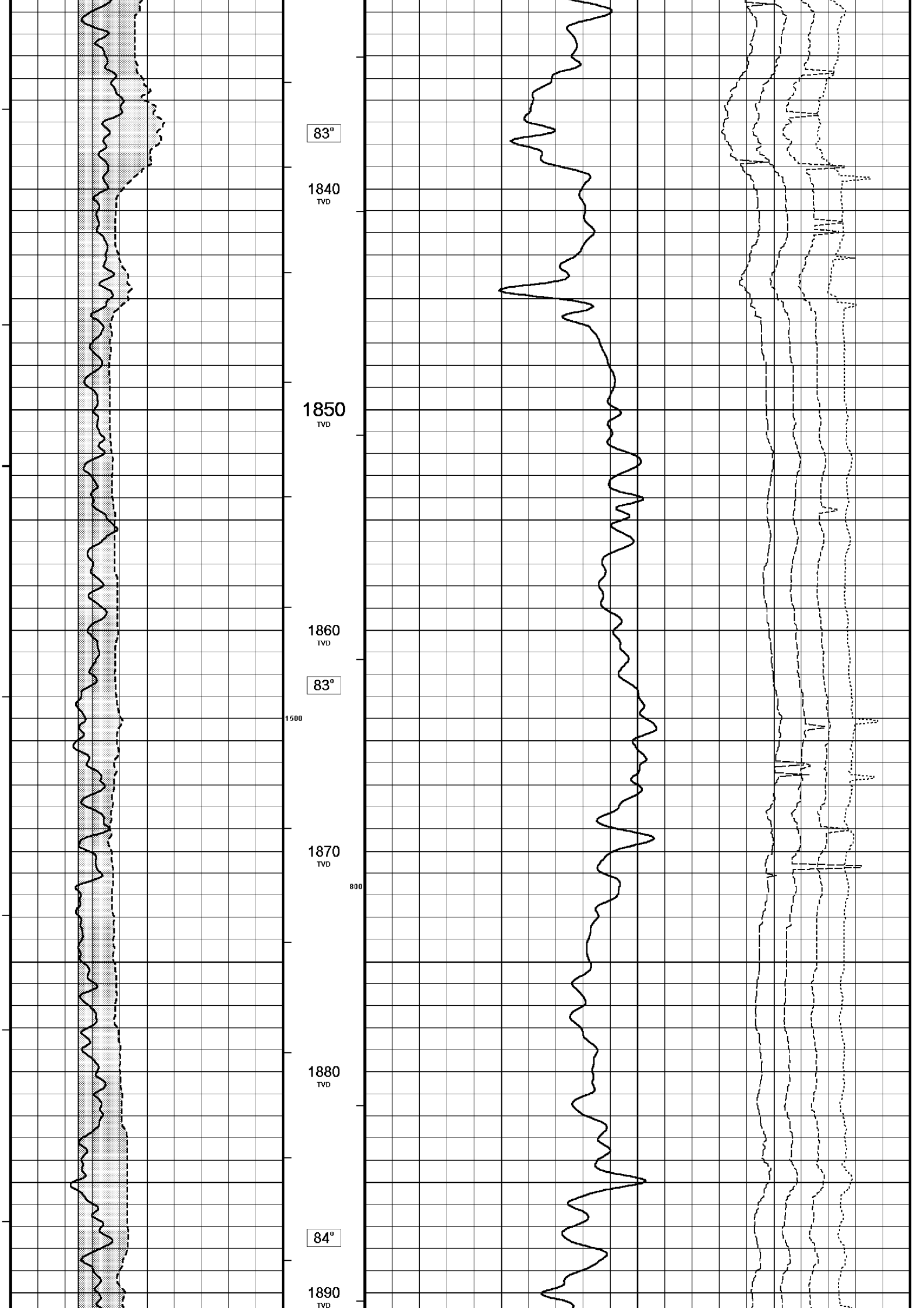


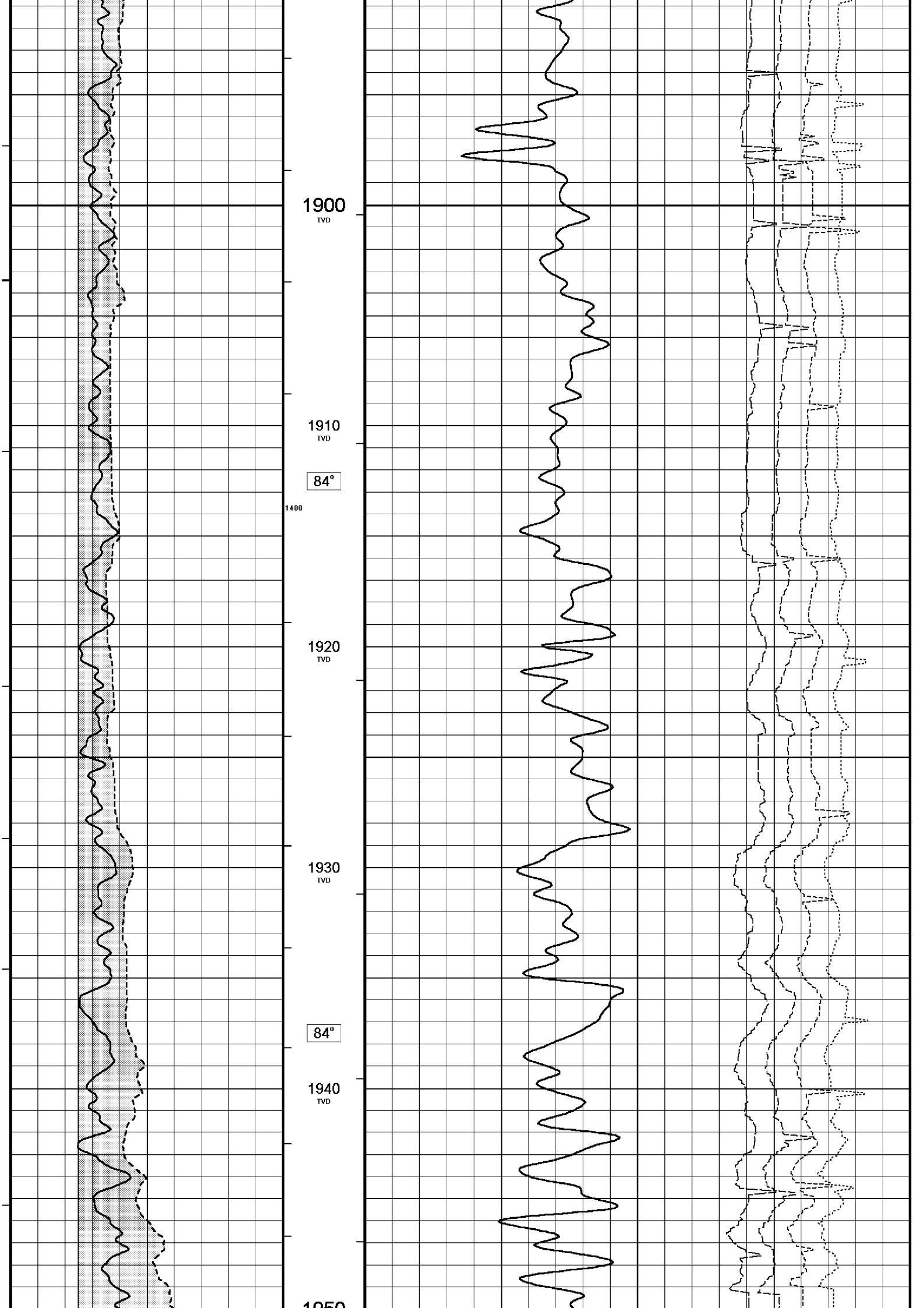


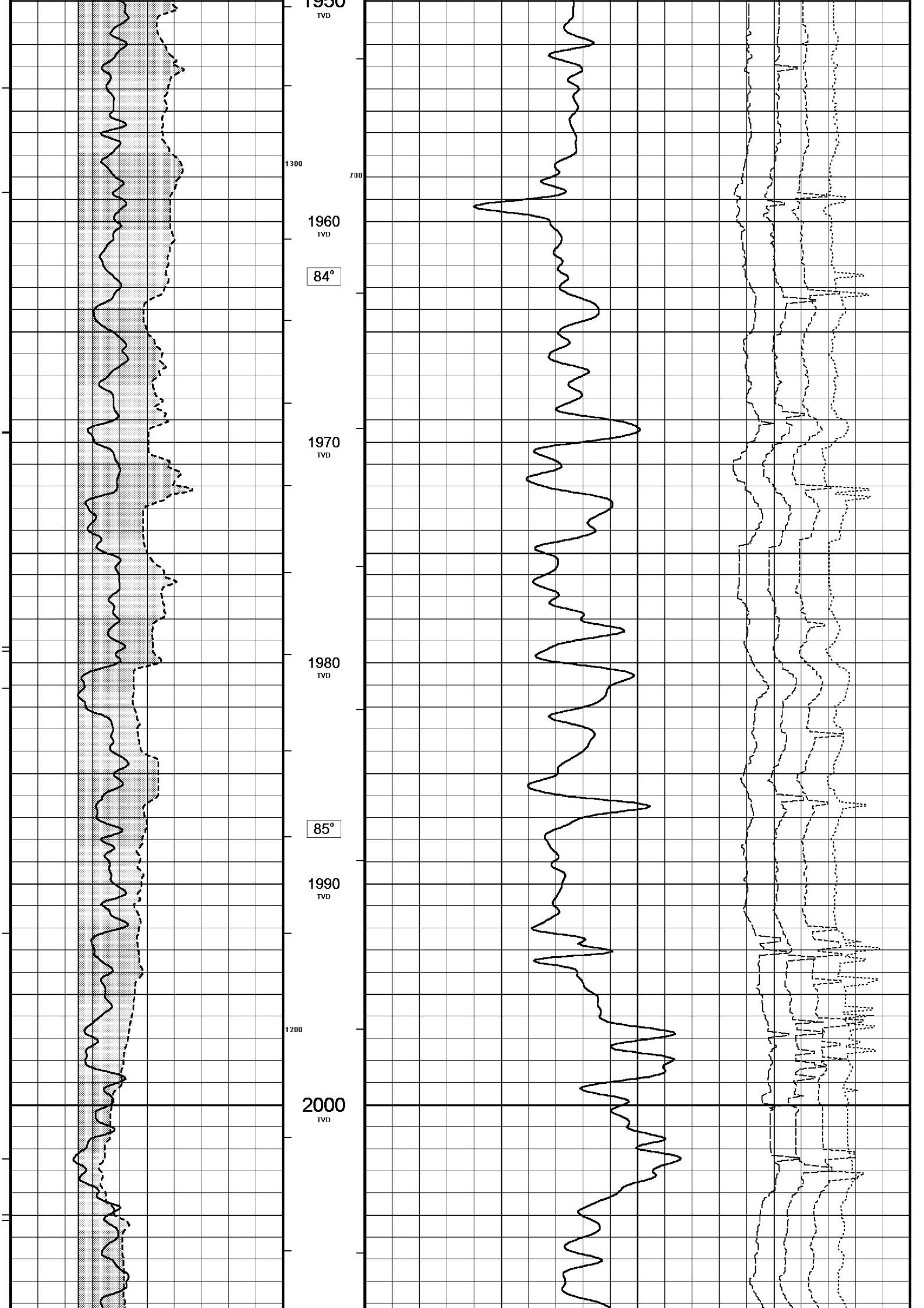


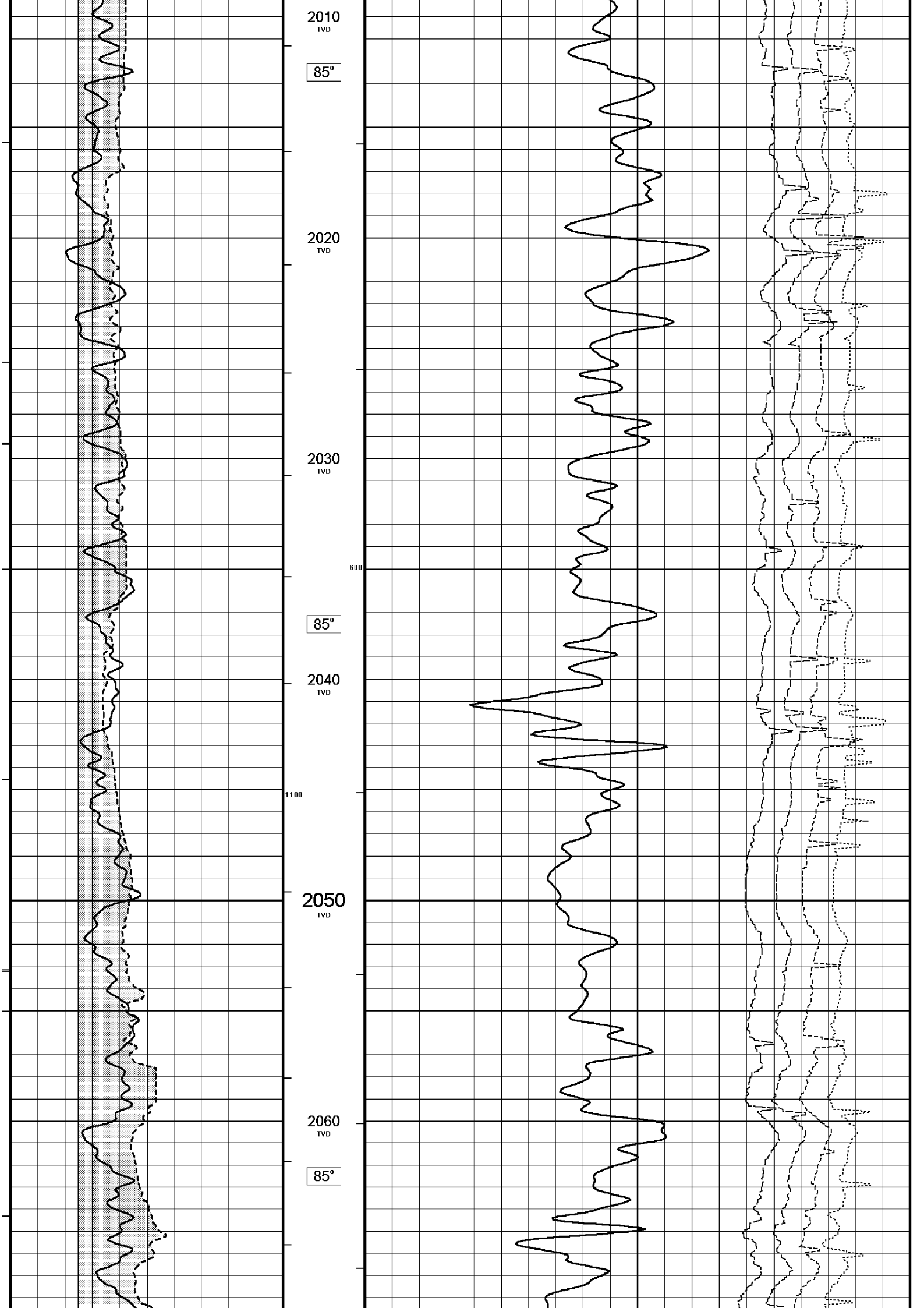


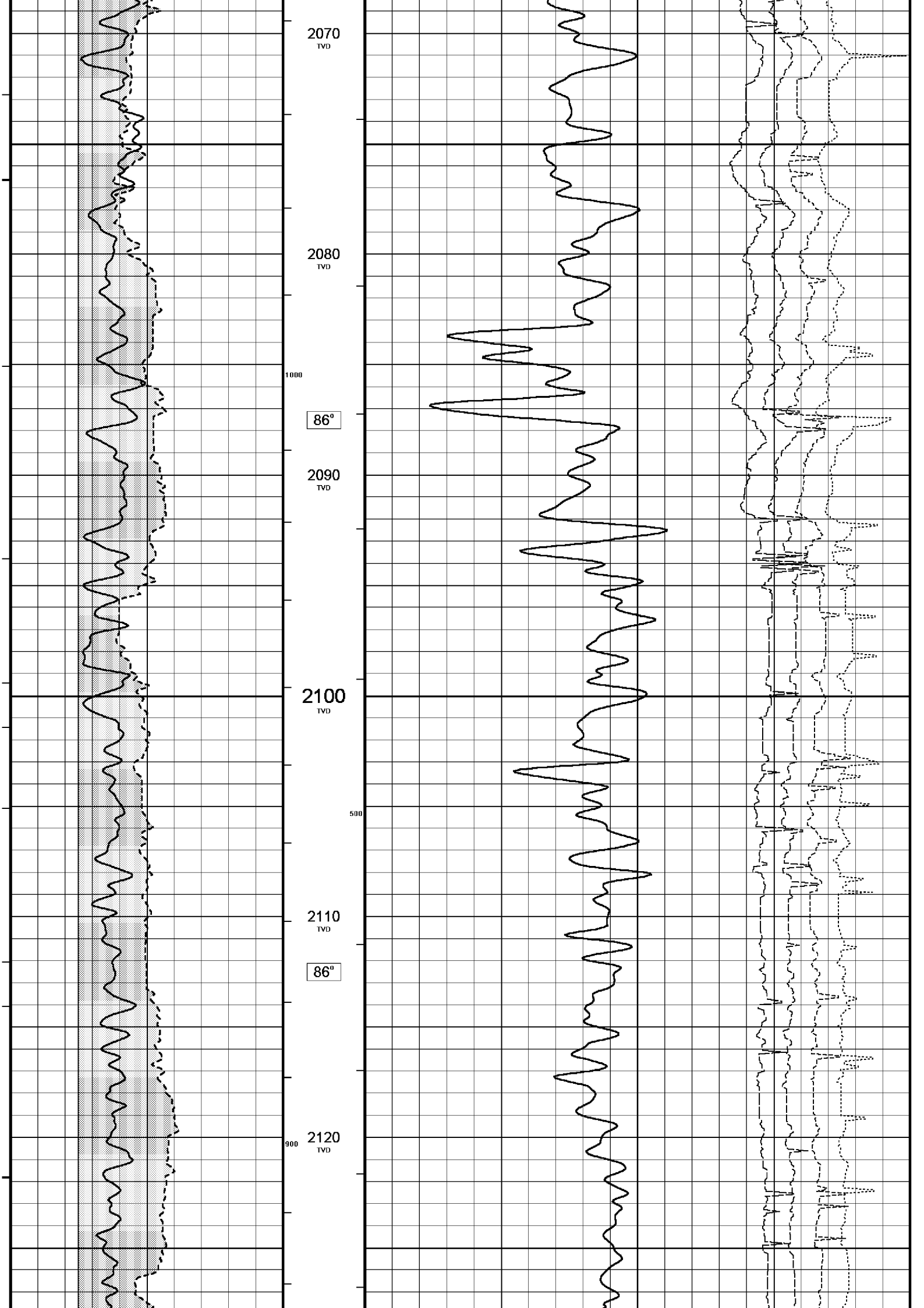


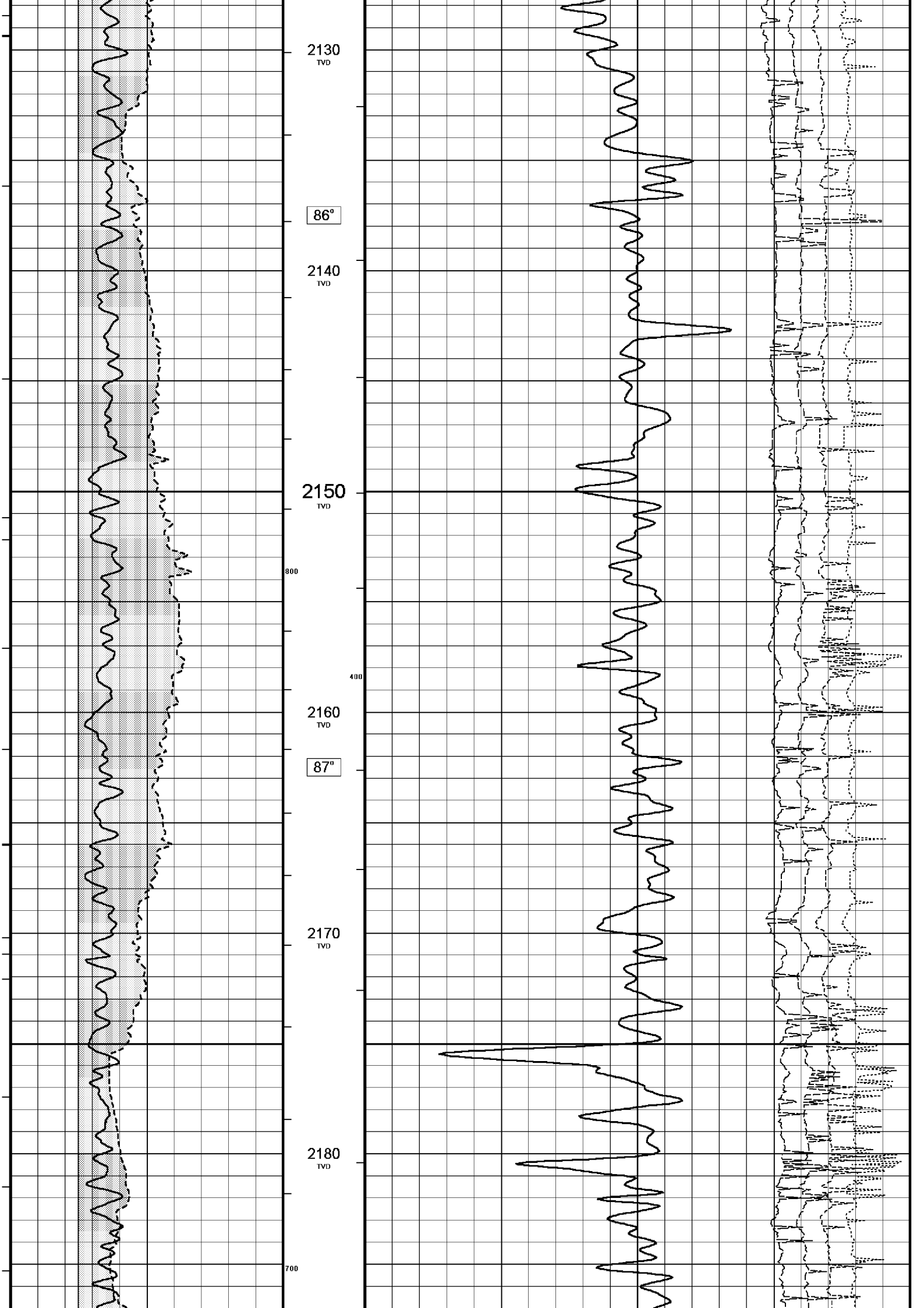


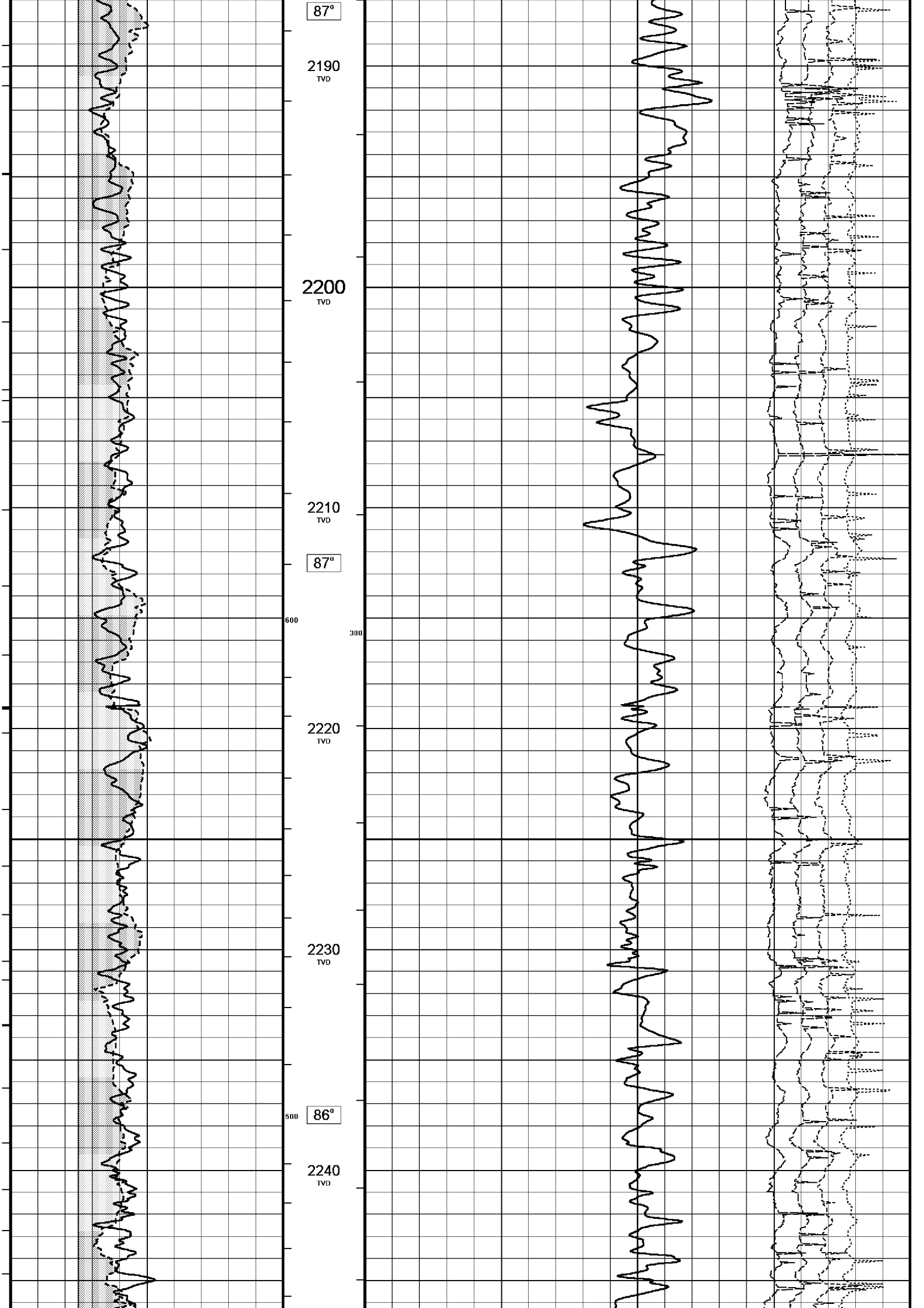


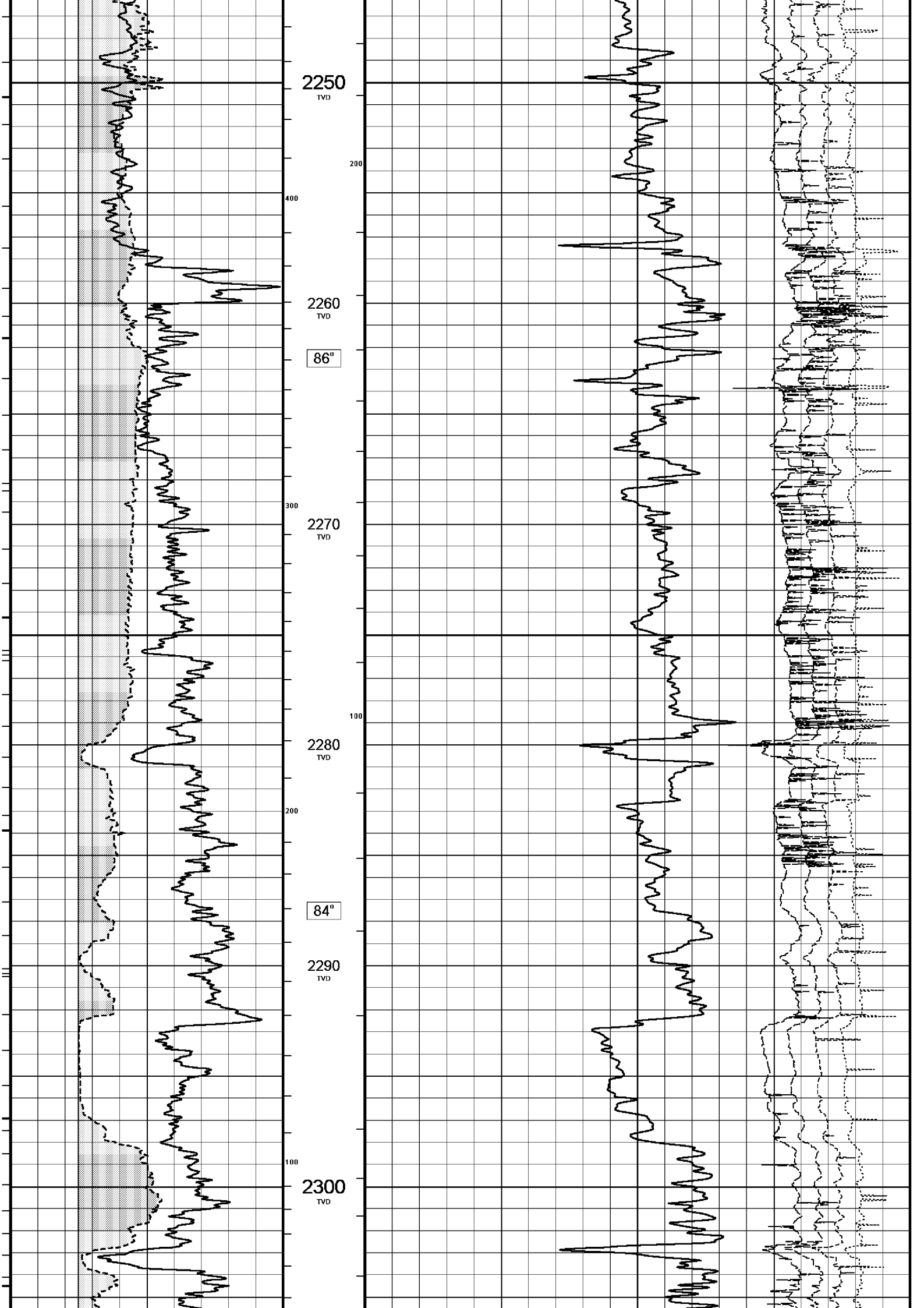


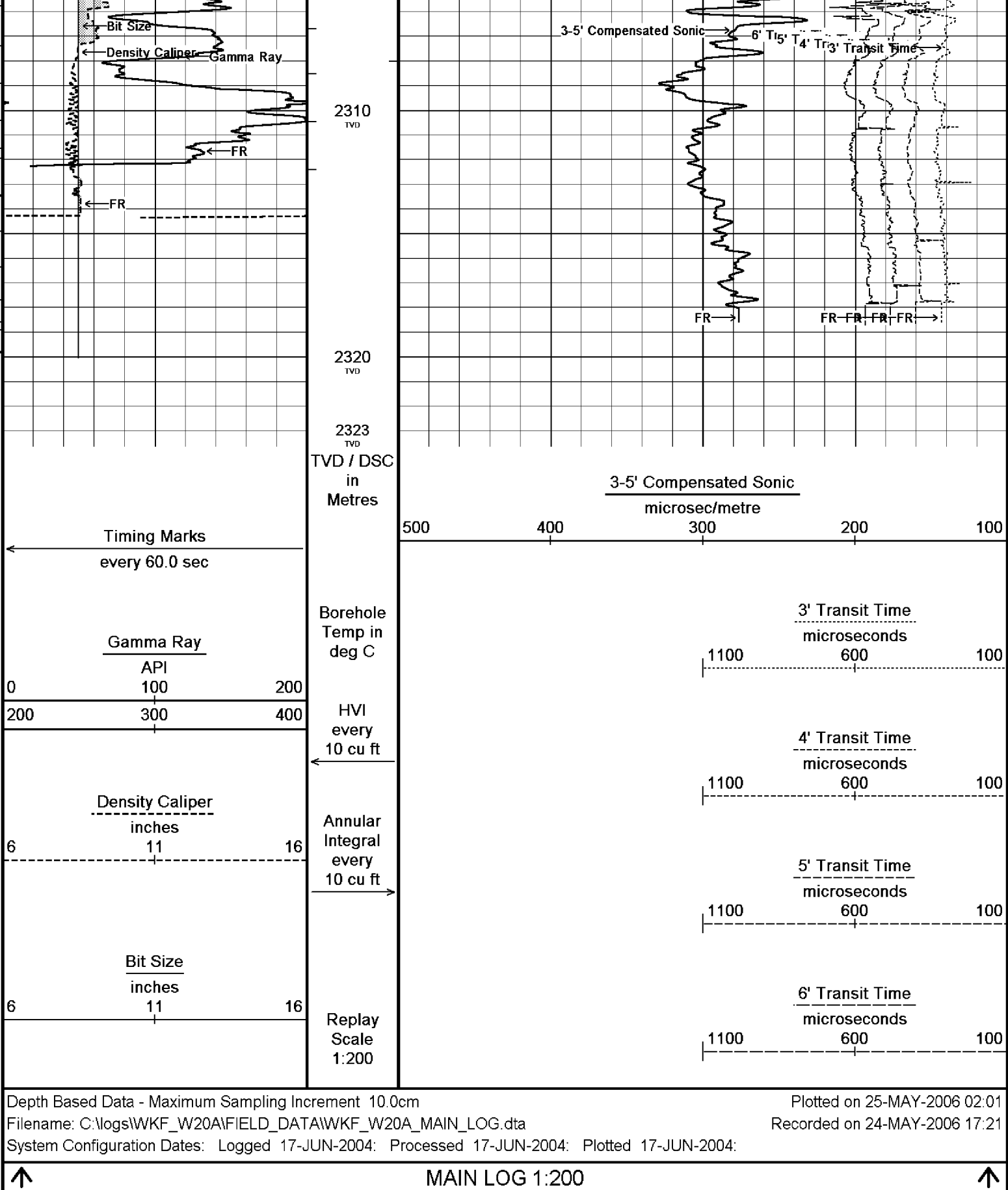












BEFORE SURVEY CALIBRATION

C:\logs\WKF_W20A\FIELD_DATA\WKF_W20A_TIME_LOG.dta

General Constants All 000

General Parameters		
Mud Resistivity	0.108	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			Field Calibration on 22-MAY-2006,23:42
	Measured	Calibrated(Deg C)	
Lower	0.00	0.00	
Upper	100.00	100.00	

High Resolution Temperature Constants MCG 142	
Pre-filter Length	11

Gamma Calibration MCG 142			Field Calibration on 22-MAY-2006 23:42
	Measured	Calibrated (API)	
Background	8	5	
Calibrator (Gross)	1367	914	
Calibrator (Net)	1360	909	

Gamma Constants MCG 142			
Gamma Calibrator Number	060		
Mud Density	1.17	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl	0.00	kppm	




Caliper Calibration MPD 083			Base Calibration on 10-MAY-2006 21:00
			Field Calibration on 22-MAY-2006 23:48
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	14332	4.01	
2	22399	5.99	
3	30880	7.98	
4	39280	9.94	
5	48576	12.01	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (in)	Actual Caliper (in)	
	7.96	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\WKF_W20A\FIELD_DATA\WKF_W20A_TIME_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

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



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

23.27 m DCOR - Density Correction
23.25 m PDPE - PE

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



13.35 m DDLL - Deep Laterolog
13.35 m DSLL - Shallow Laterolog

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

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 W20A
FIELD	KINGFISH GDA94
PROVINCE/COUNTY	BASS STRAIT, VICTORIA
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing	metres	First Reading	2318.40	metres
Elevation Drill Floor	33.43 metres	Depth Driller	2320.75	metres

Elevation Ground Level -76.13 metres

Depth Logger 2320.00 metres



COMPENSATED SONIC
1:200 TVD