



DUAL LATEROLOG - GR
DENSITY - NEUTRON

Compact

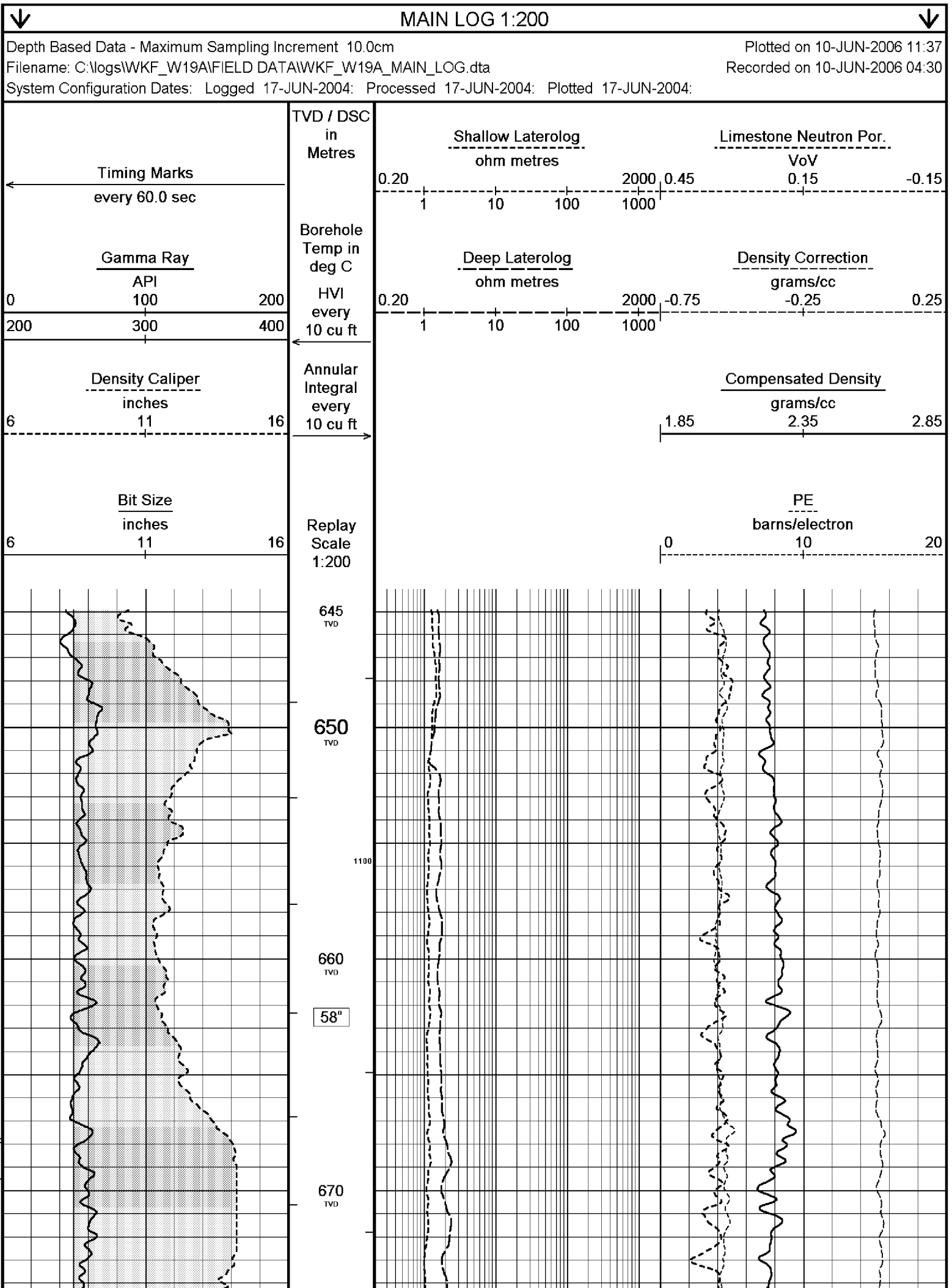
1:200 TVD

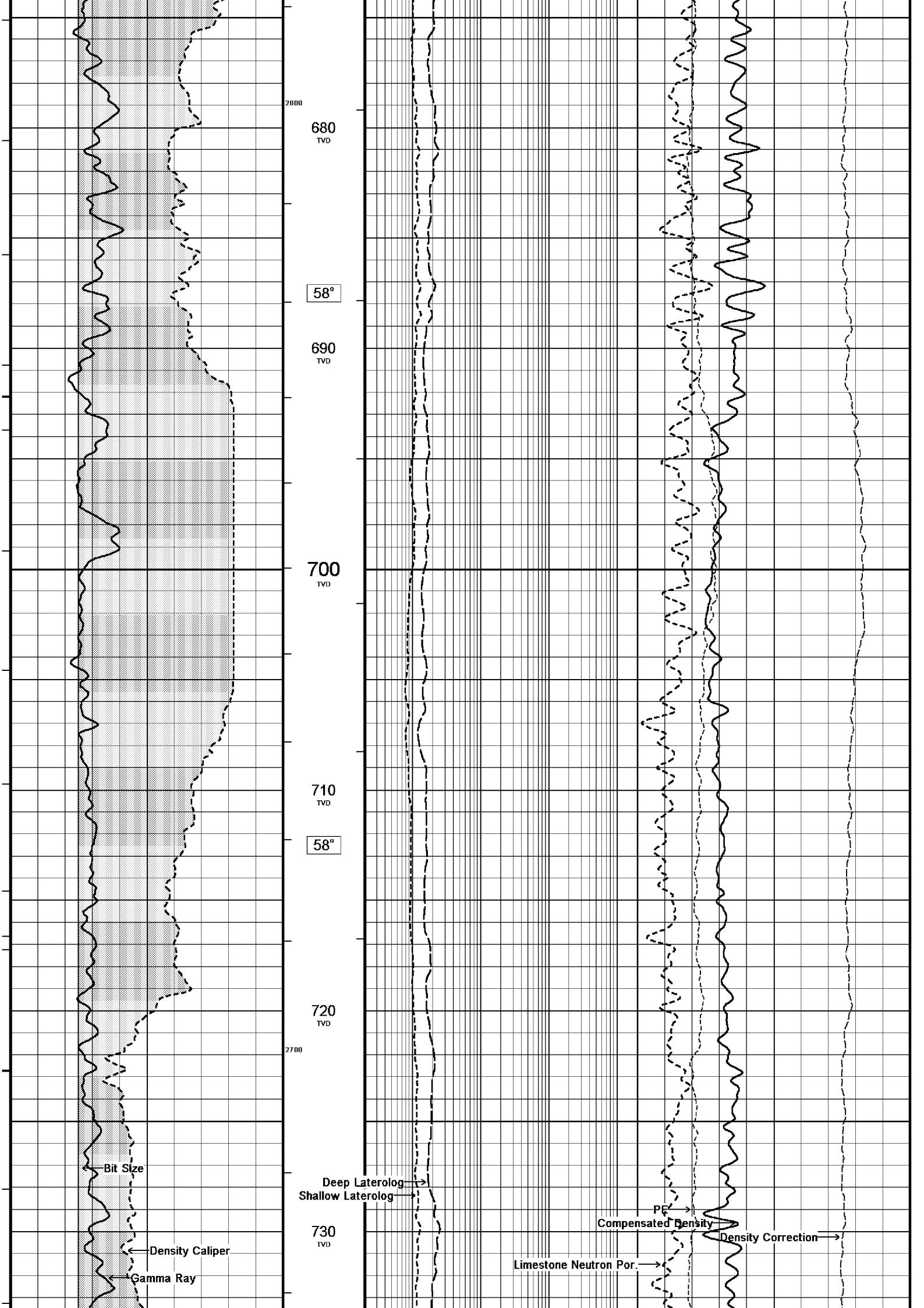
COMPANY				ESSO AUSTRALIA PTY.LTD			
WELL				WKF W19A			
FIELD				KINGFISH GDA94			
PROVINCE/COUNTY				BASS STRAIT, VICTORIA			
COUNTRY/STATE				AUSTRALIA			
LOCATION				S 38 35 34.833, E 148 6 19.318			
				N 5727806.791 m, E 596262.840 m			
				FIELD PRINT			
LSD	SEC	TWP	RGE	Other Services			
				COMPENSATED 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							
Date	10-JUN-2006					Elevations: KB 33.43 metres DF 33.43 metres GL -76.13 metres	
Run Number	ONE						
Depth Driller	2373.41			metres			
Depth Logger	2370.70			metres			
First Reading	2358.95			metres			
Last Reading	649.30			metres			
Casing Driller	649.30			metres			
Casing Logger	649.30			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			

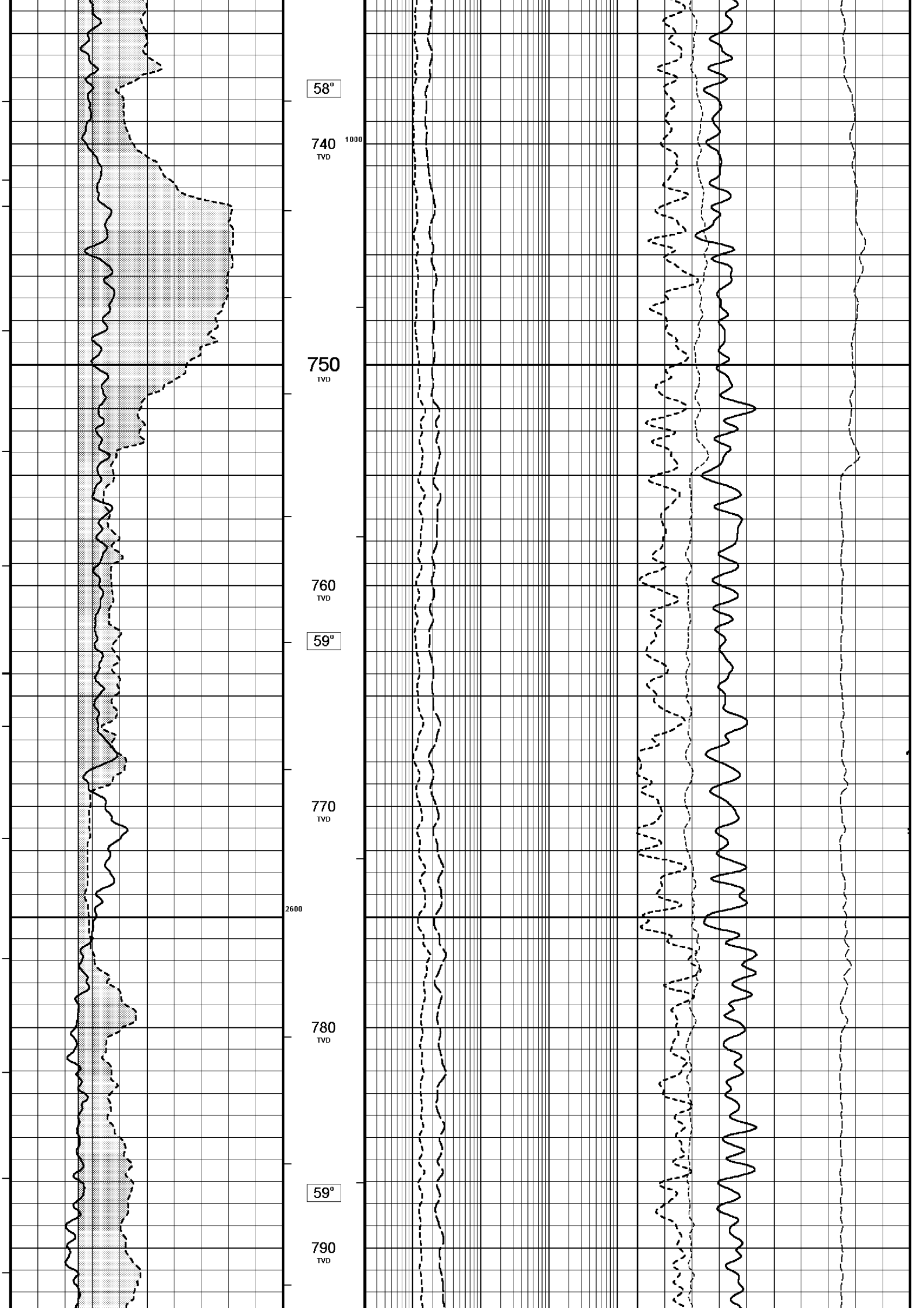
BOREHOLE RECORD				
Bit Size inches		Depth From metres		Depth To metres
8.500		666.00		2687.00
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	10.750	0.00	666.00	40.50

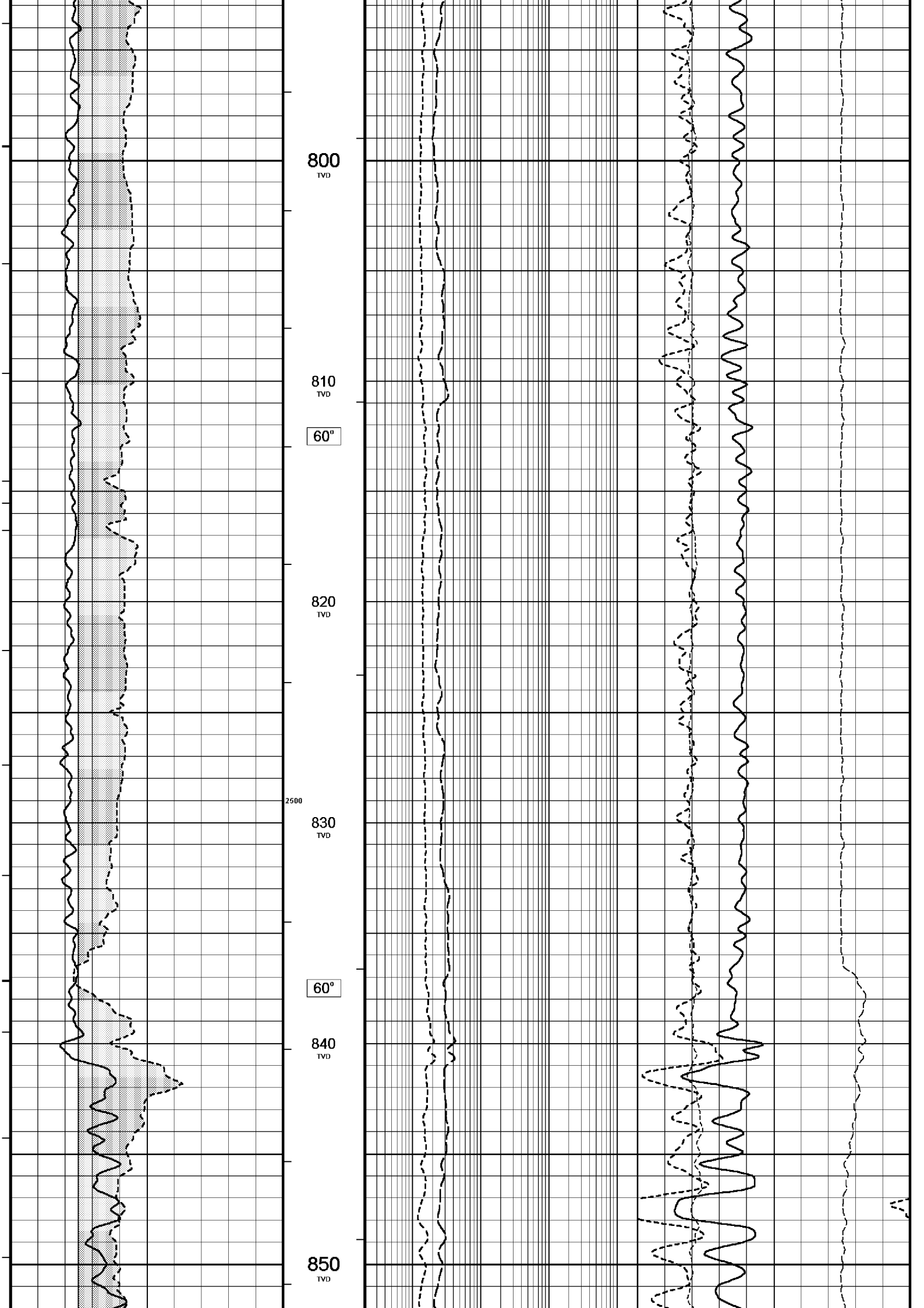
REMARKS
RIG: NABORS 453
5" SHUTTLE/MEMORY COMPACT OPERATION. CREW: R TENCH , B MOSS , B GOODWIN, M KOLCZE.
FIELD FINAL LOGS TO BE CORRELATED TO ANADRILL GAMMA LOG.
MAX. TEMPERATURE: 83.2 DEG C AT 2636 m MD MAX. INCLINATION: 37 DEG AT 665 m MD MAX. DOGLEG SERVERITY: 6.21 DEG/30m AT 696.25 m MD DEPLOYMENT 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

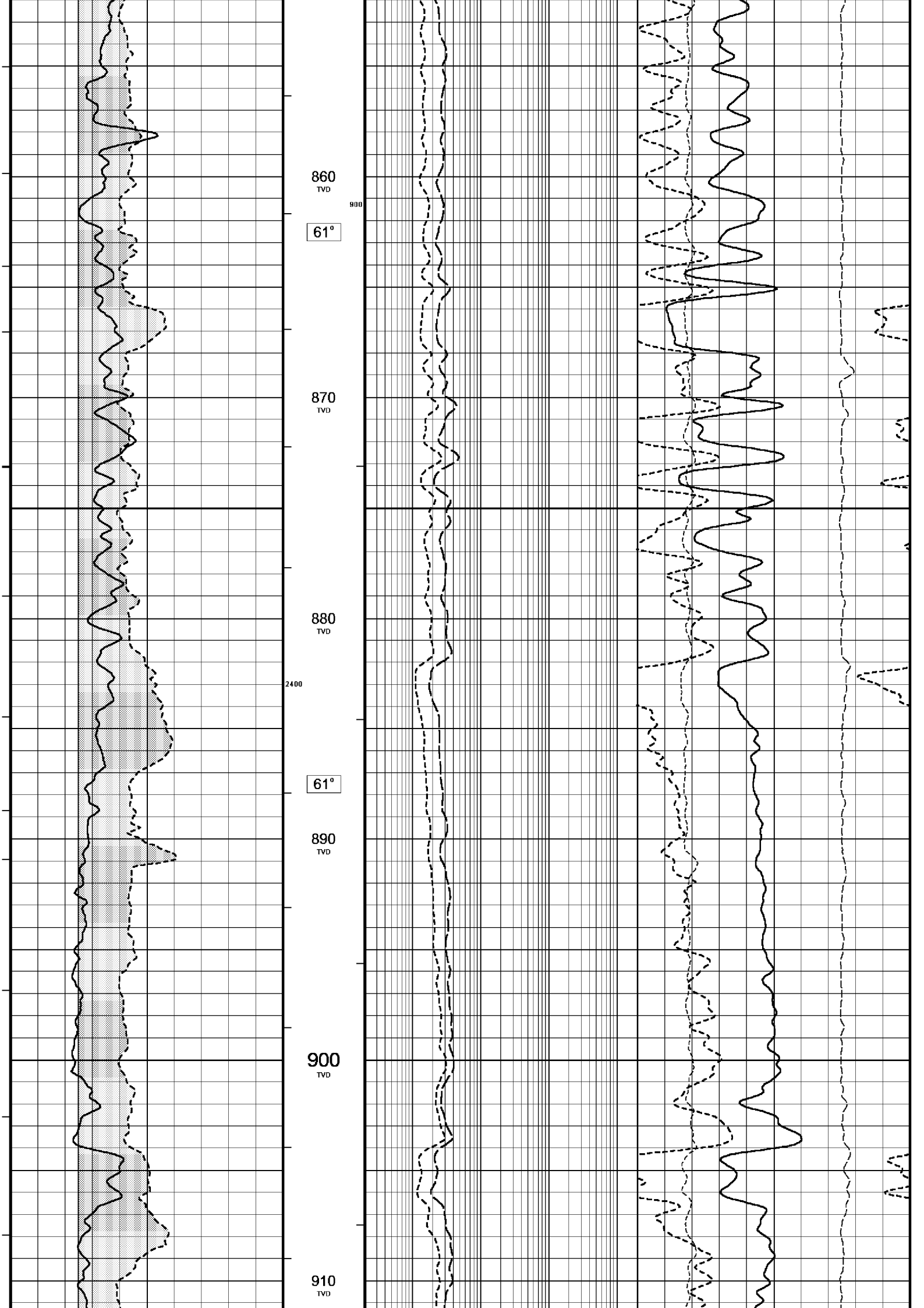
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

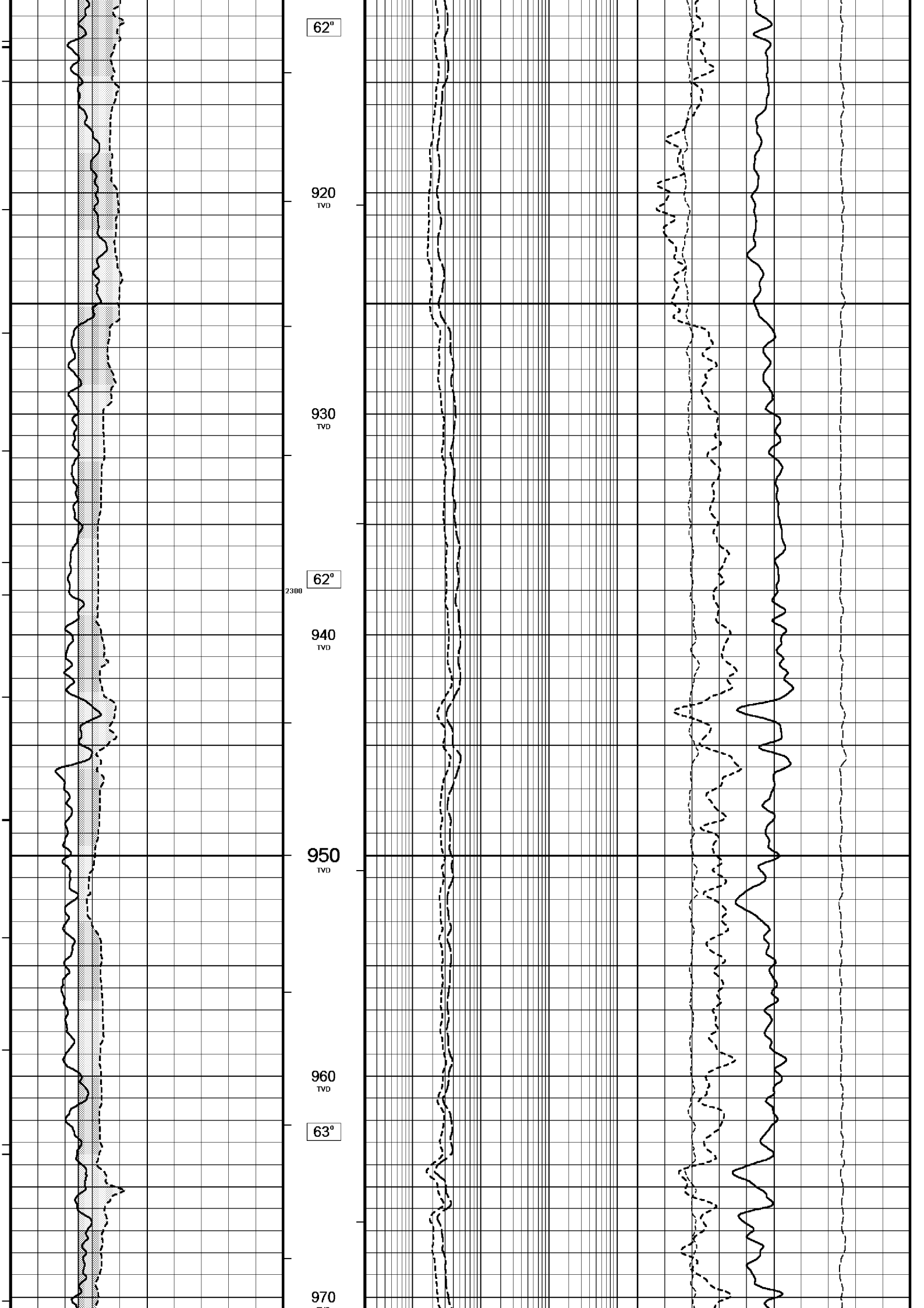


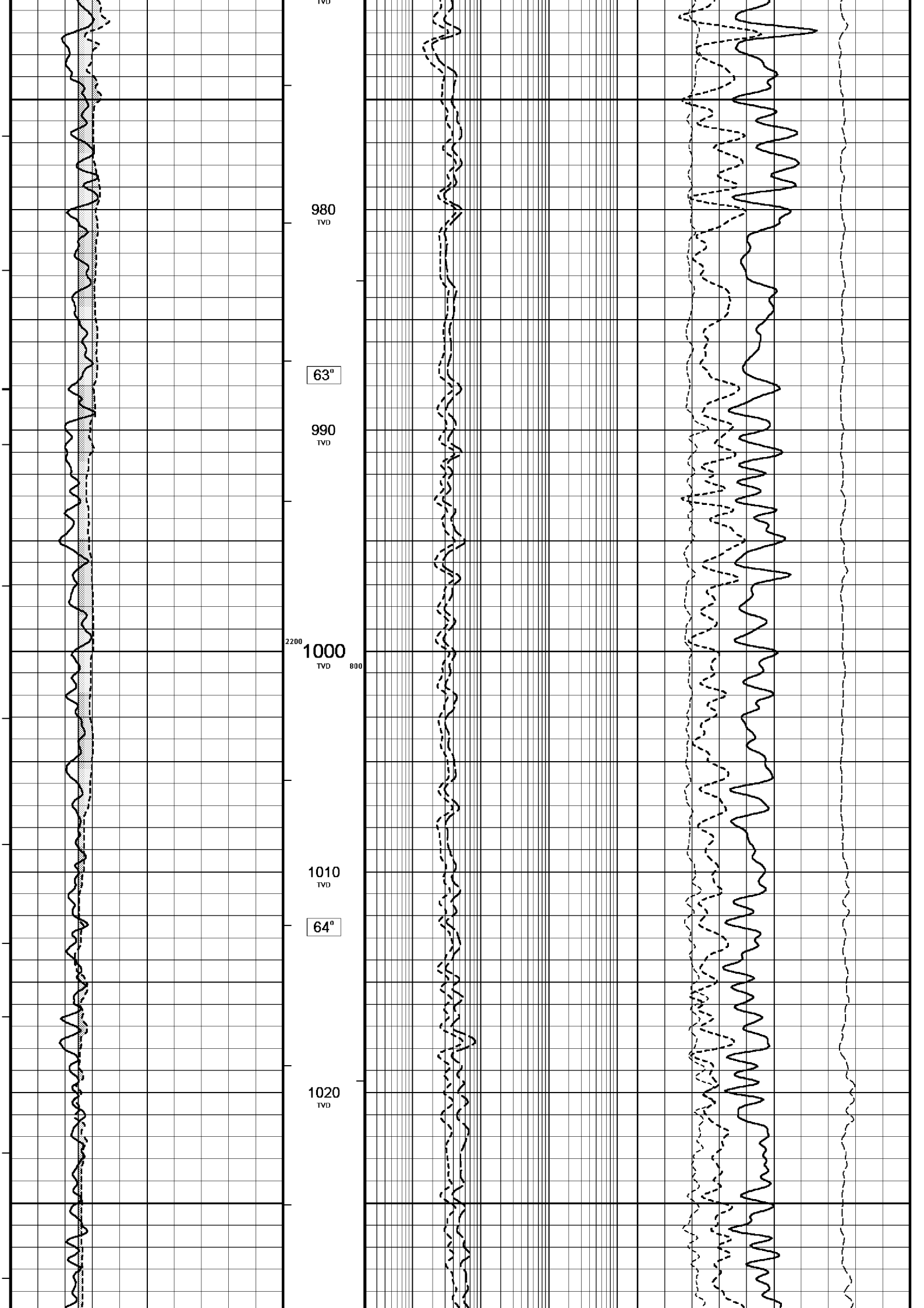


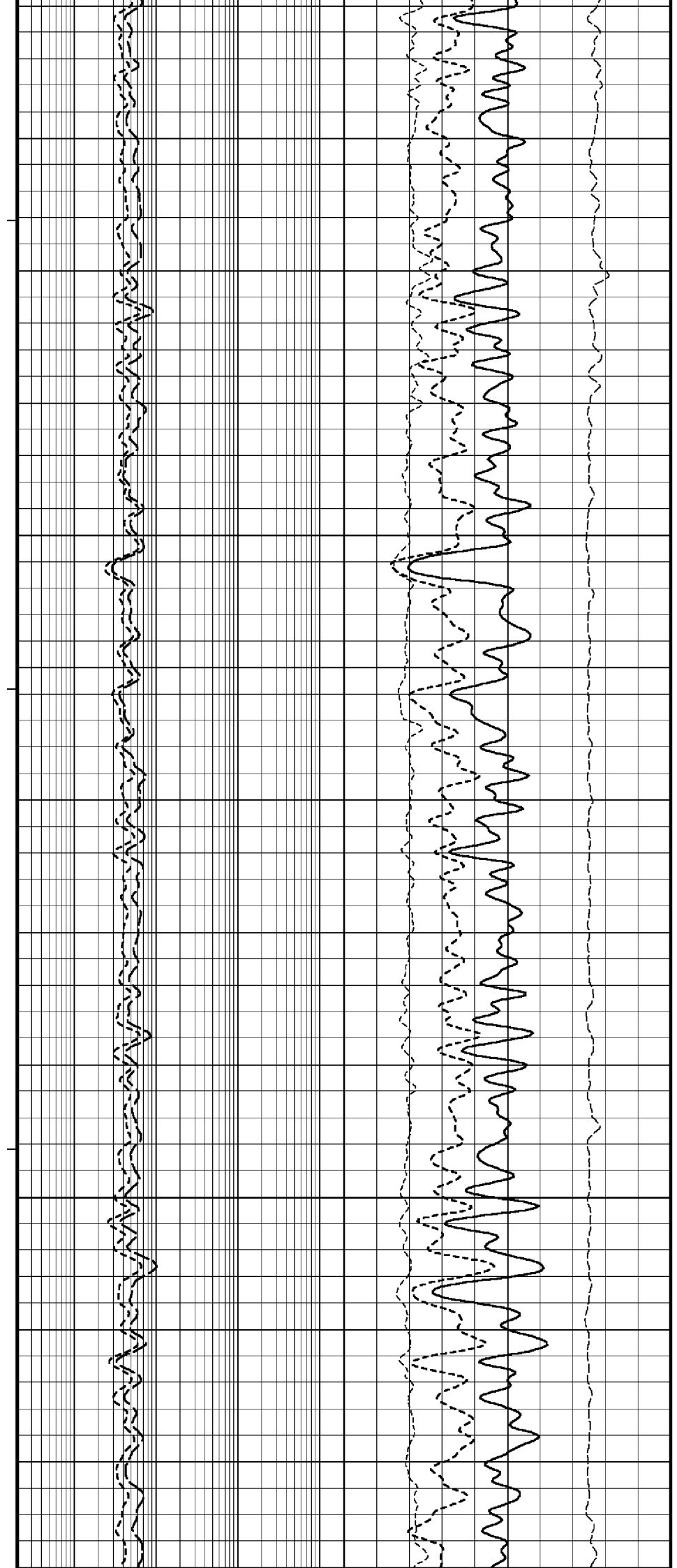
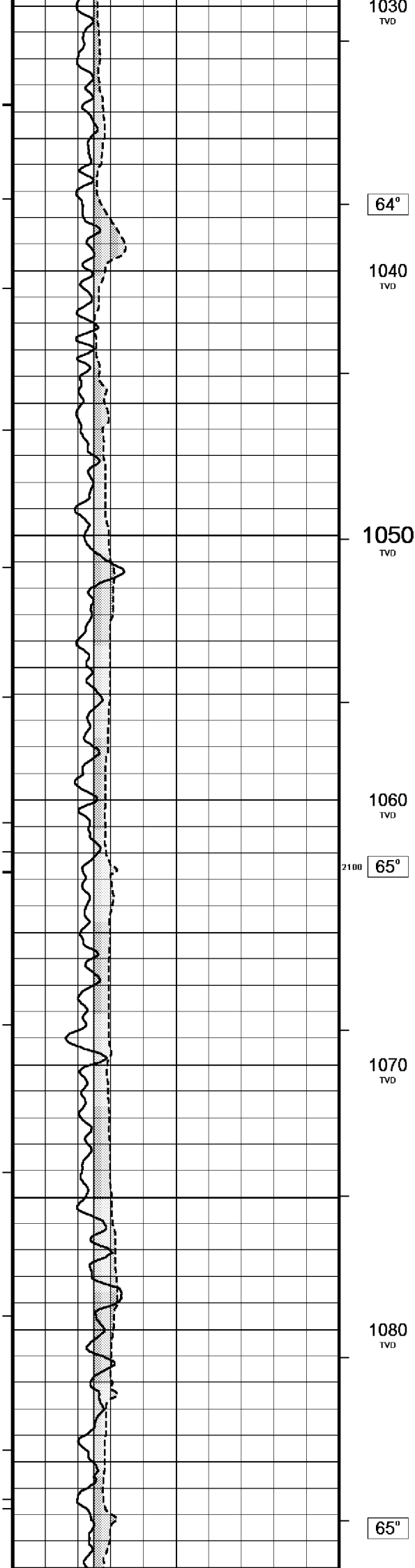


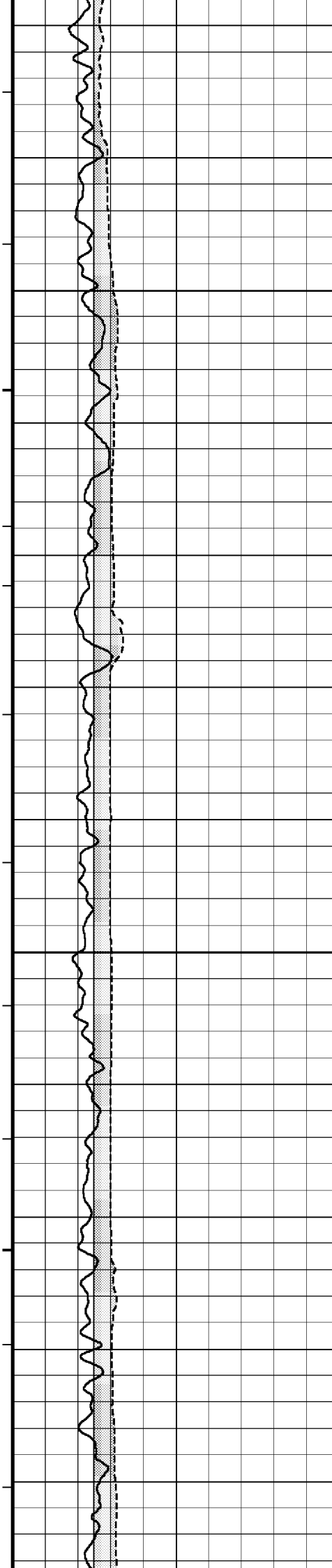












1090
TVD

1100
TVD

1110
TVD

66°

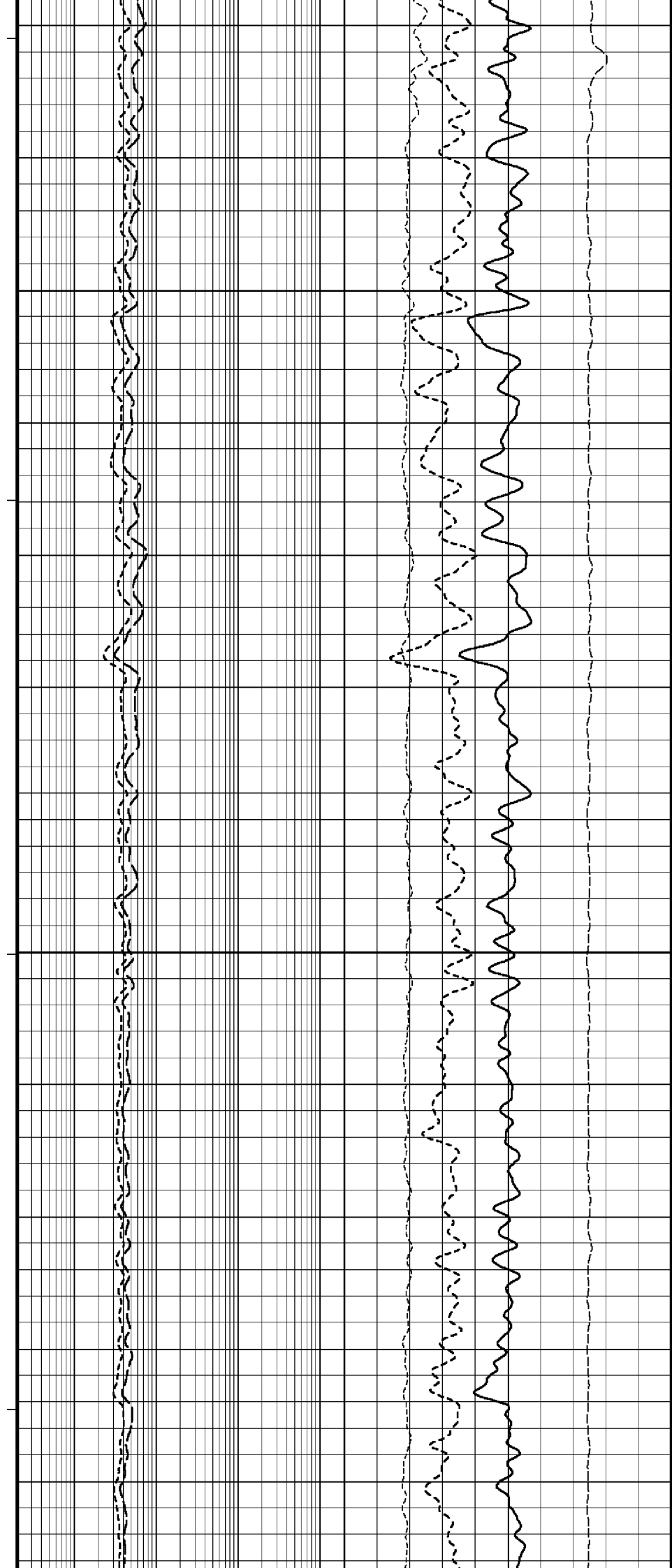
1120
TVD

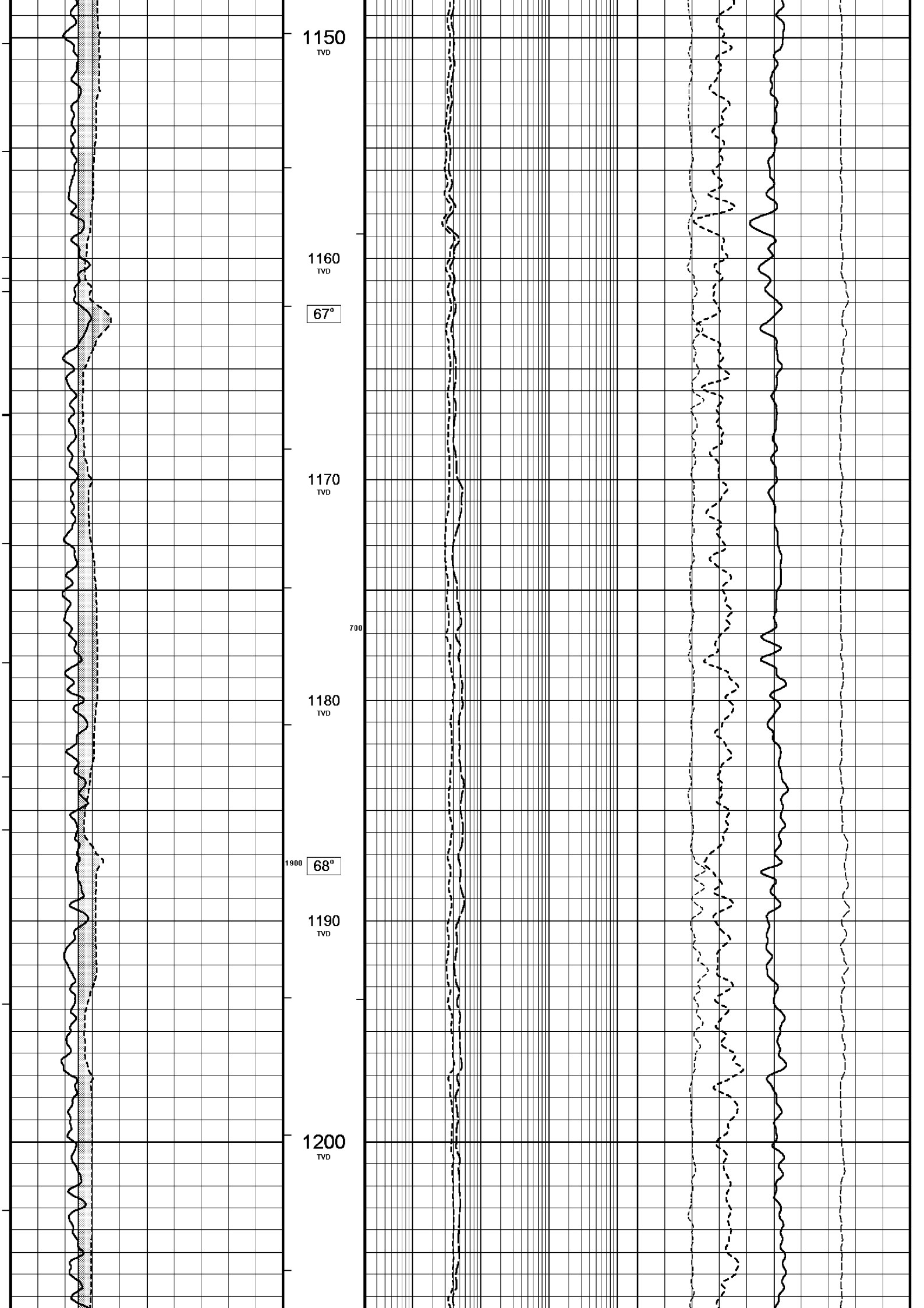
2000

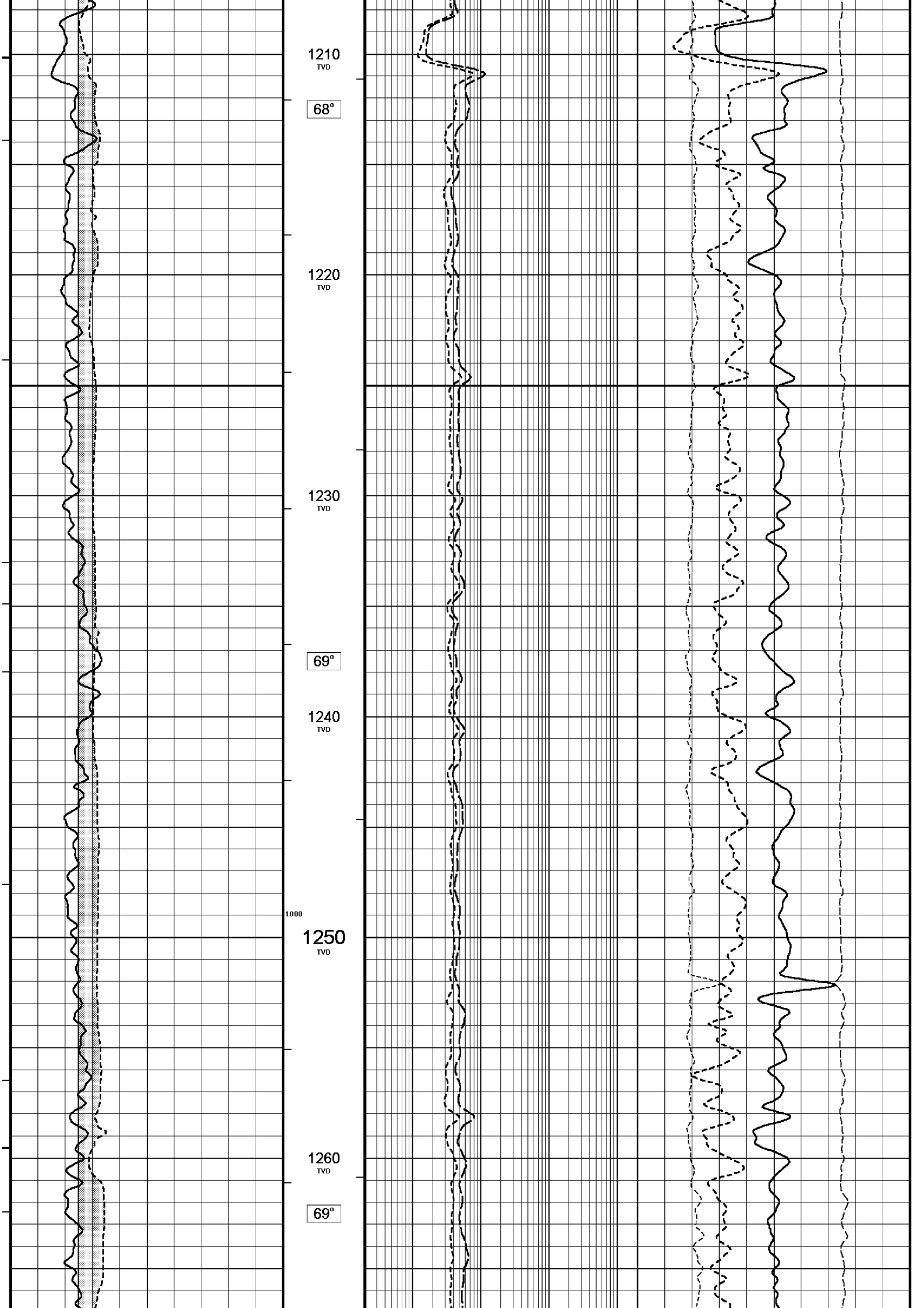
1130
TVD

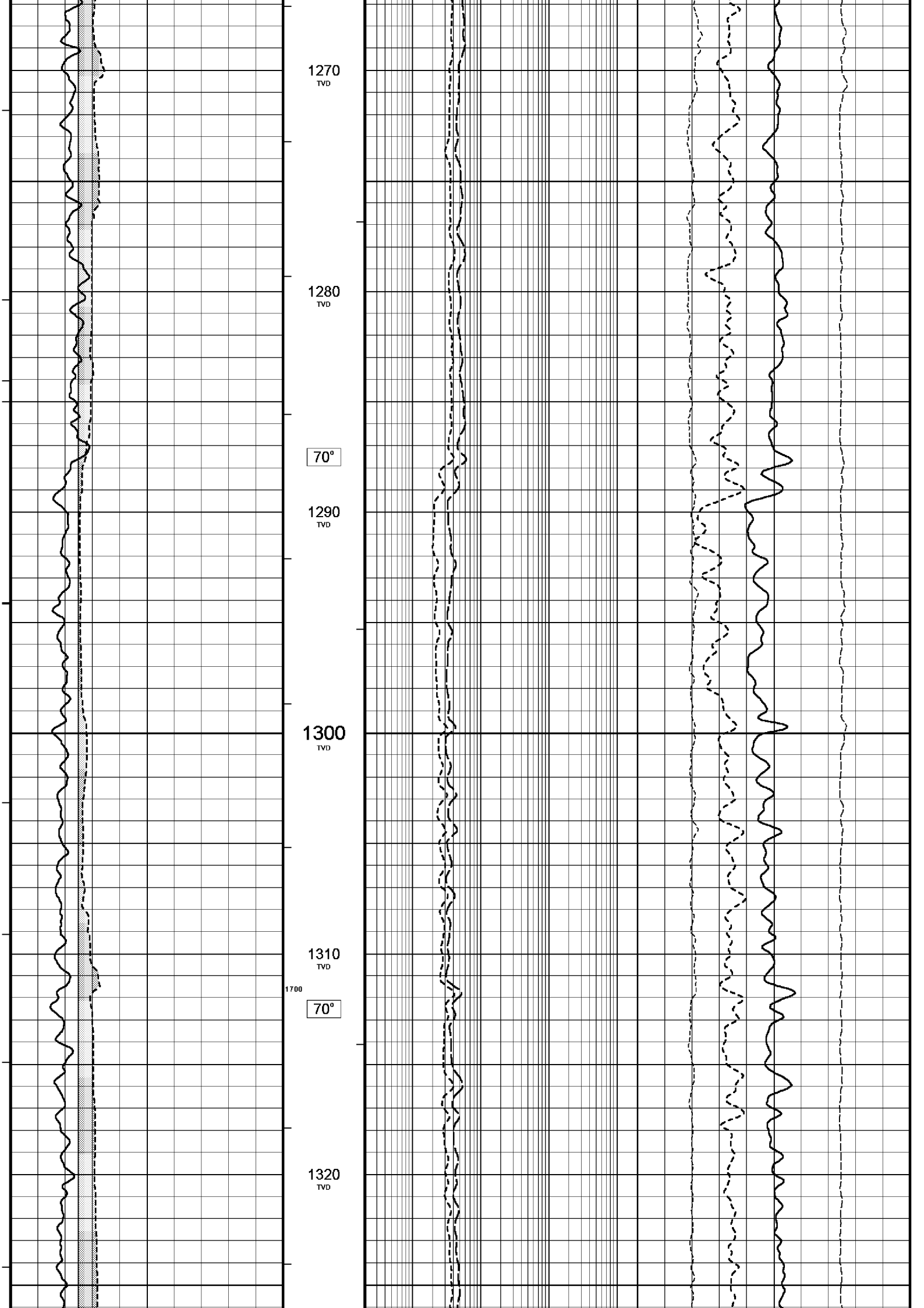
67°

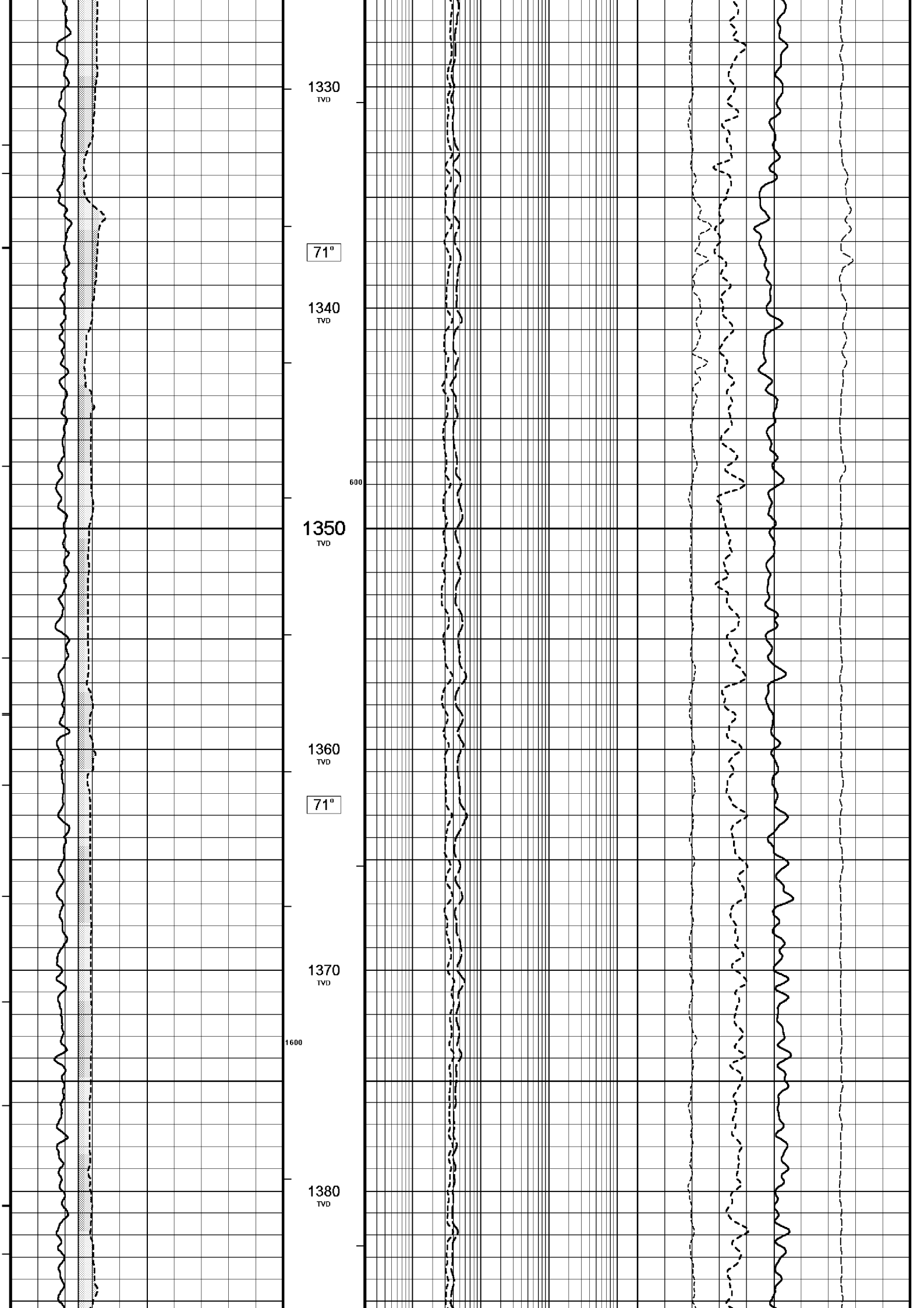
1140
TVD

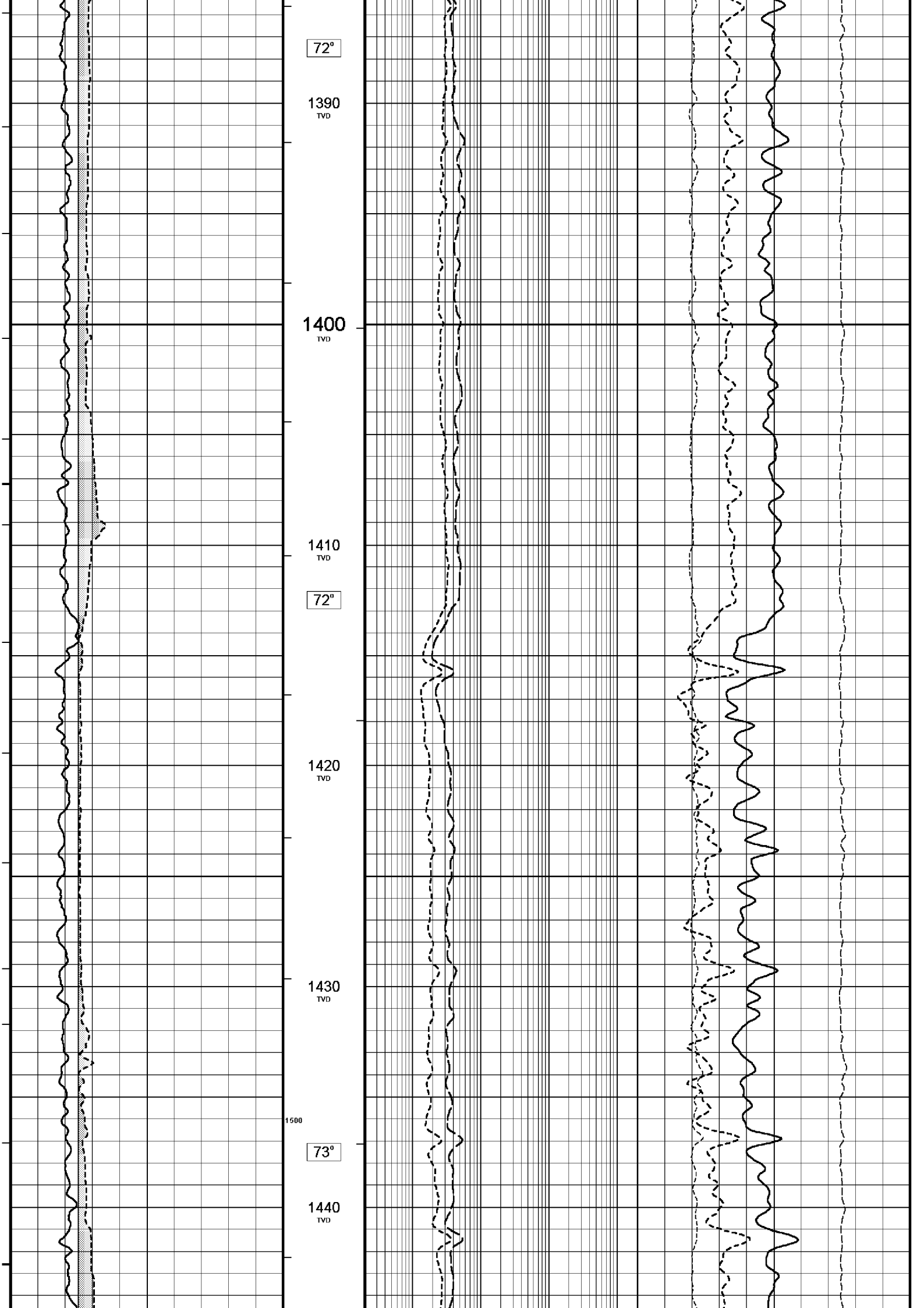


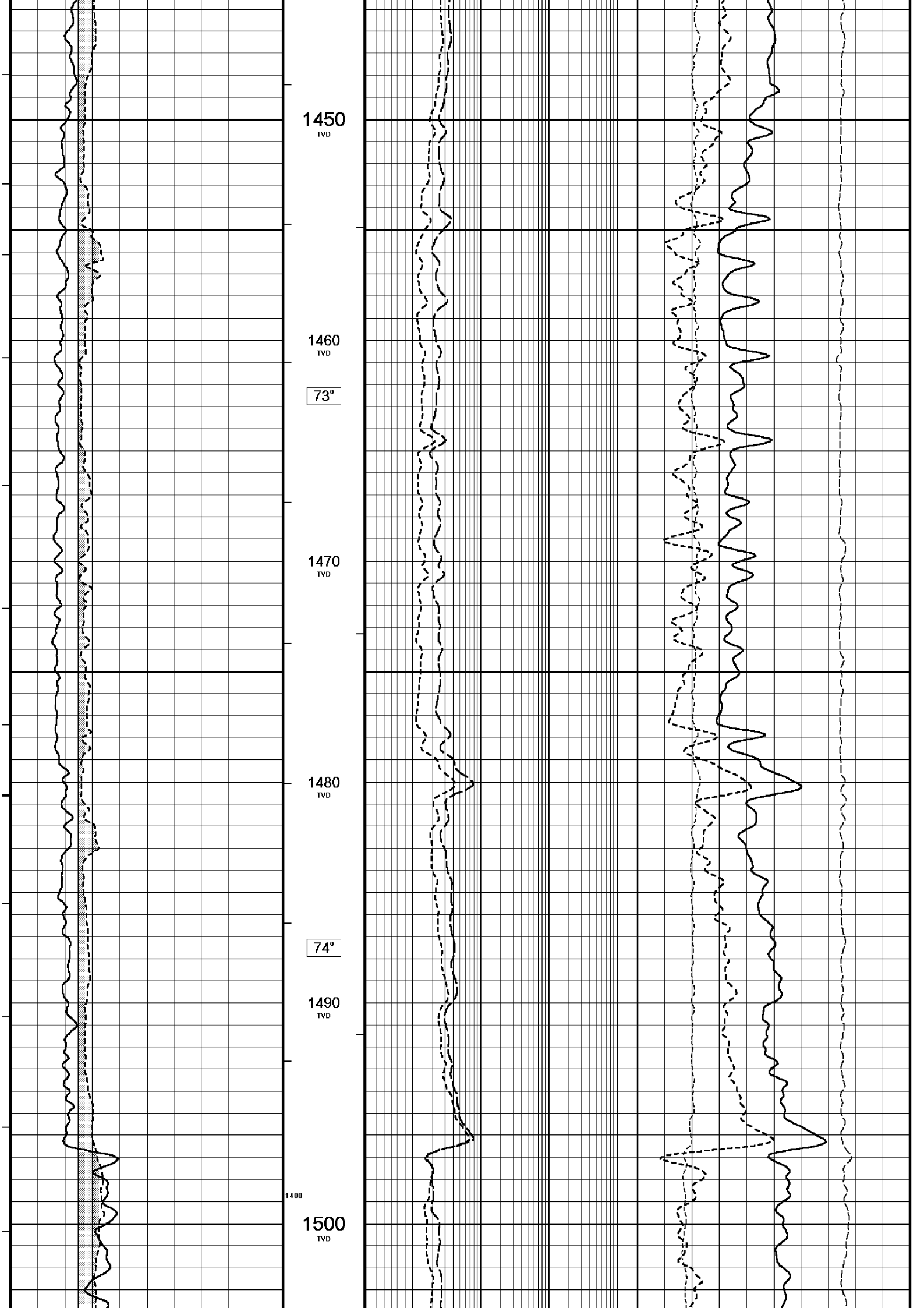


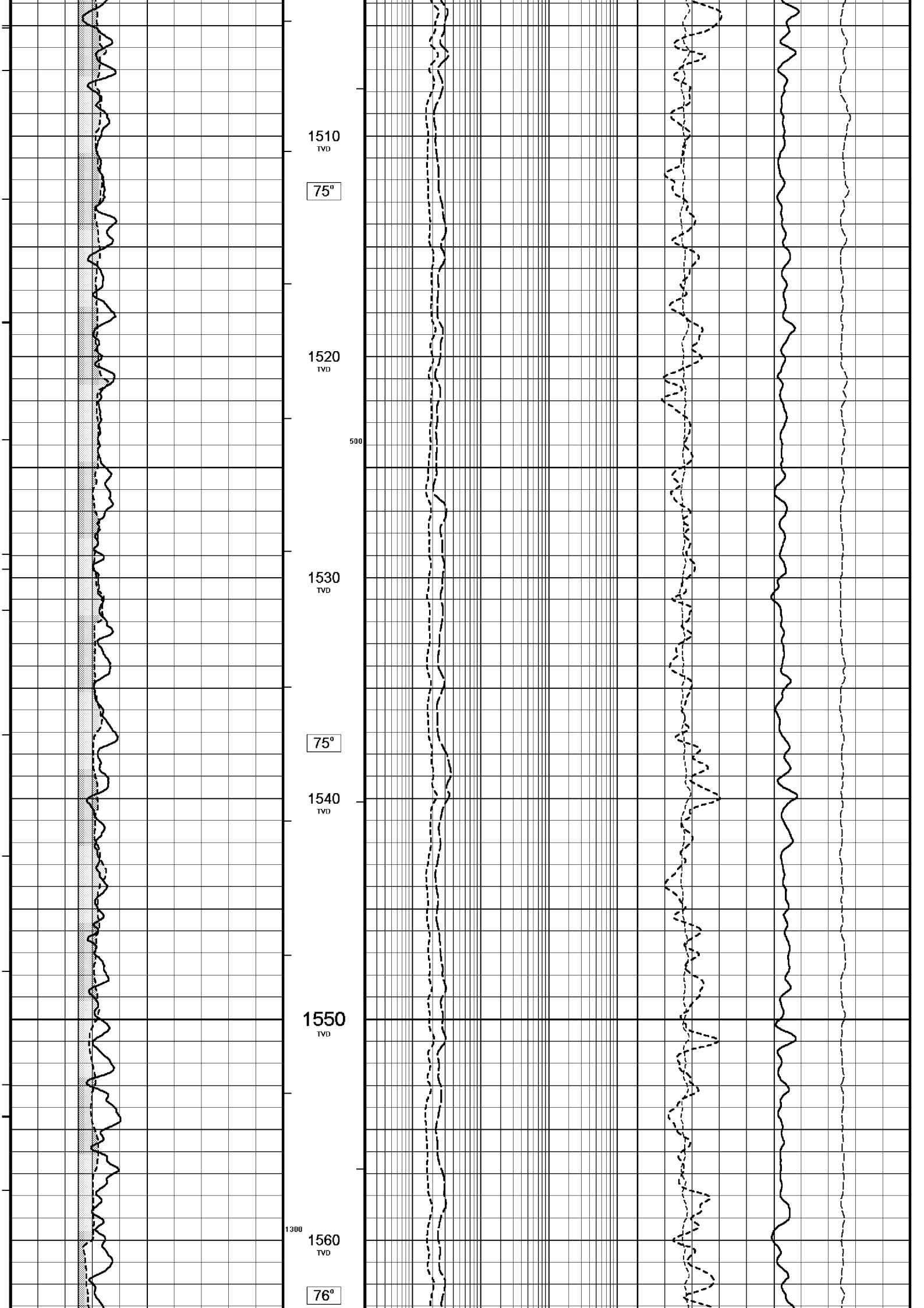


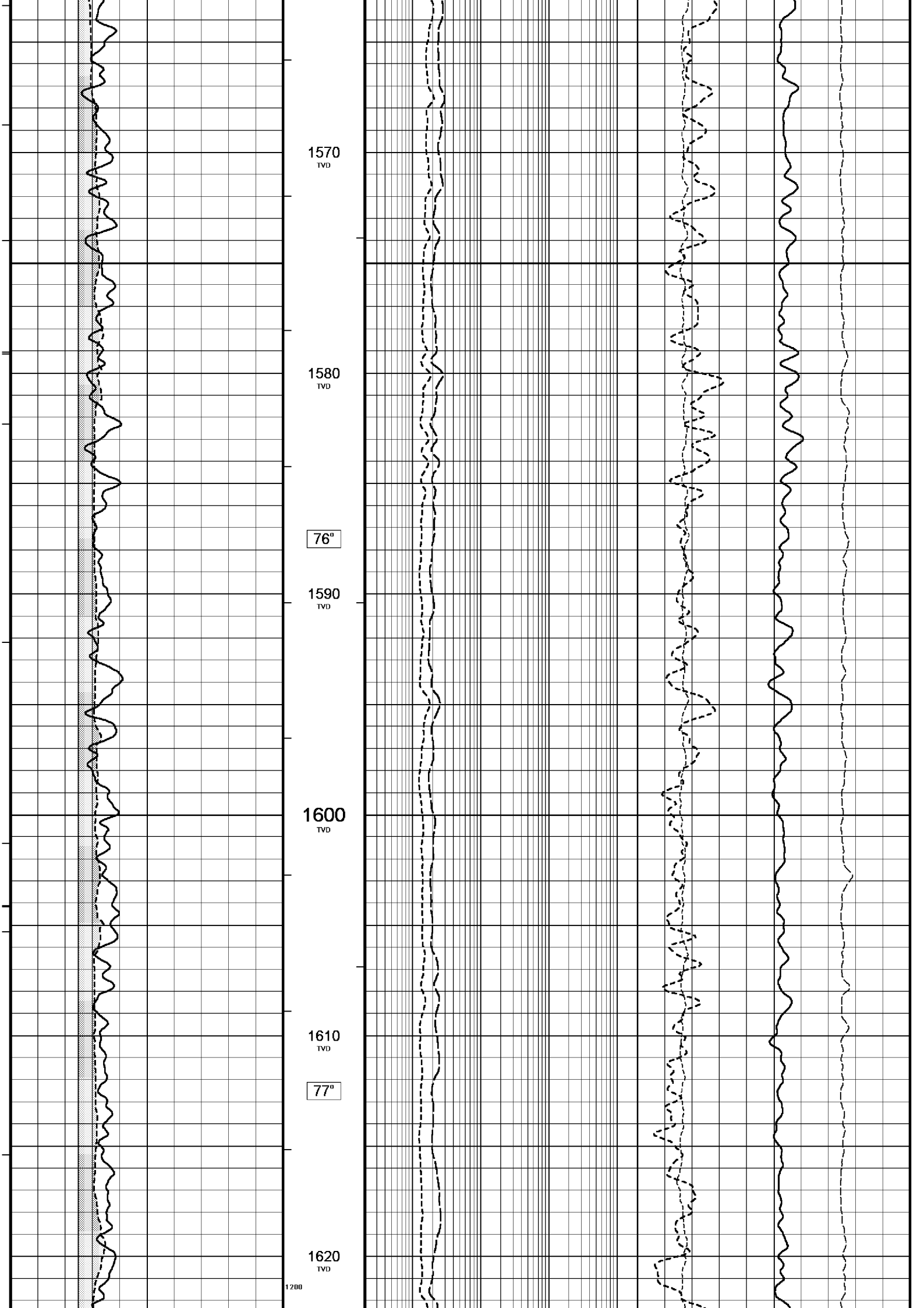


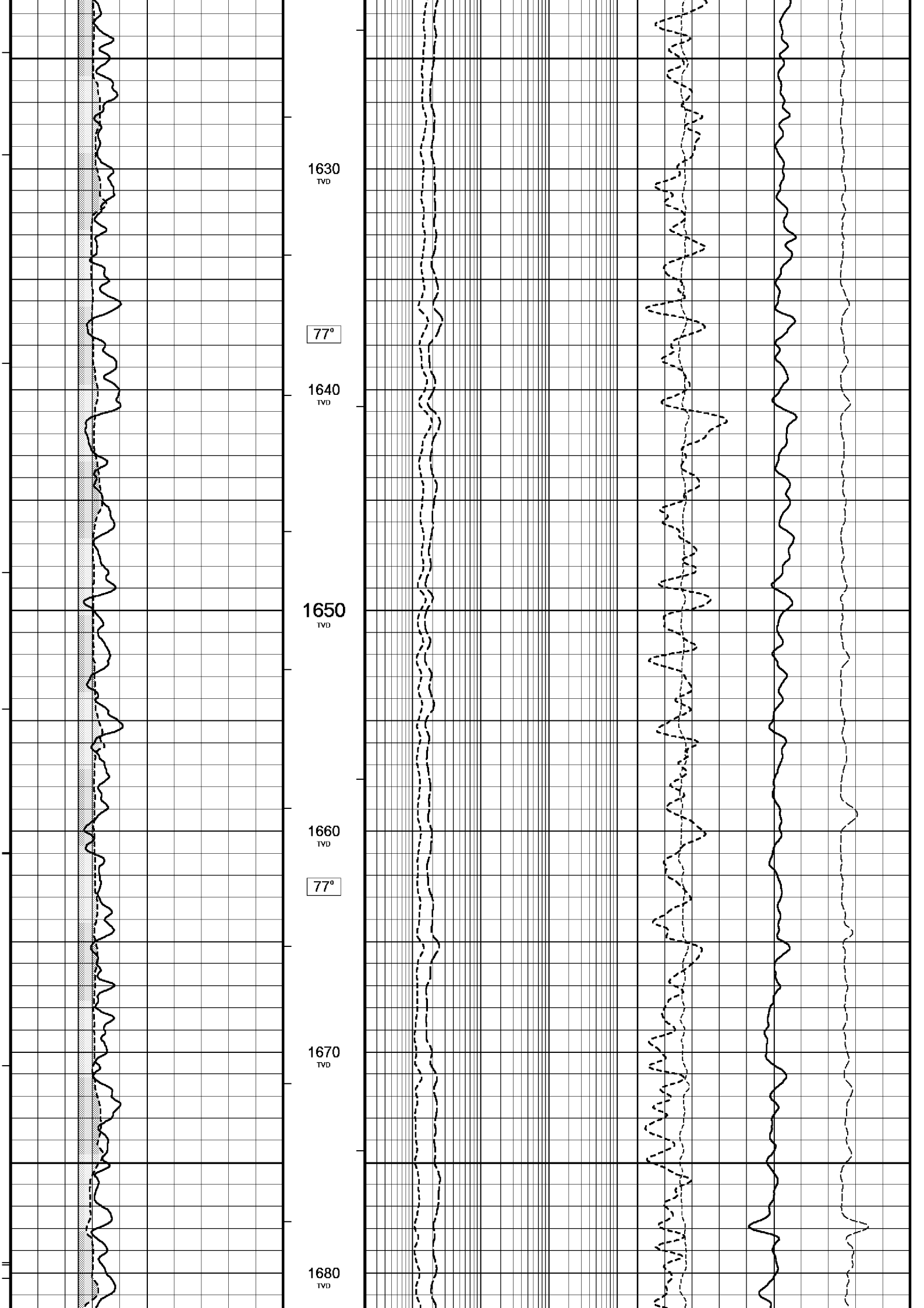


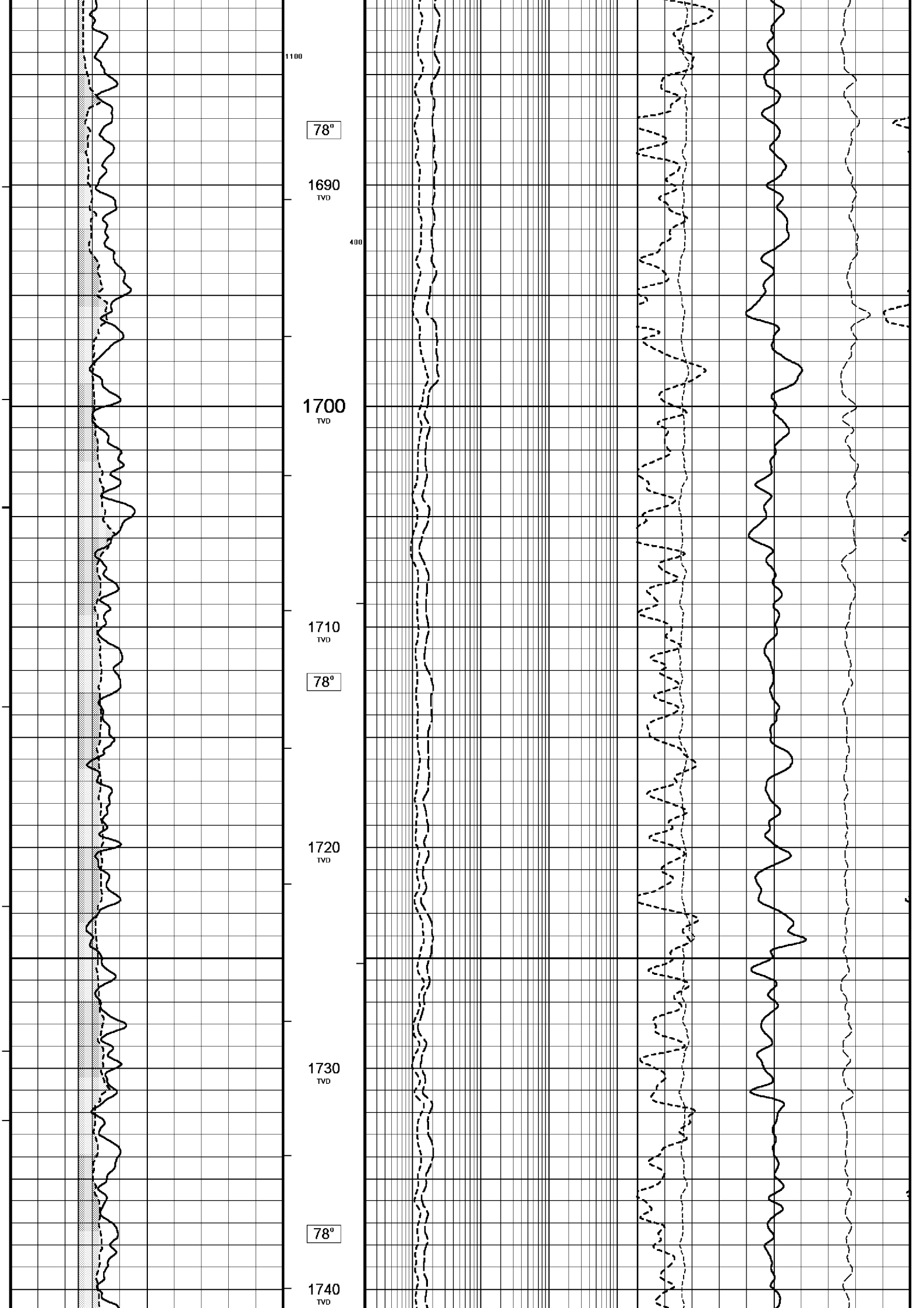


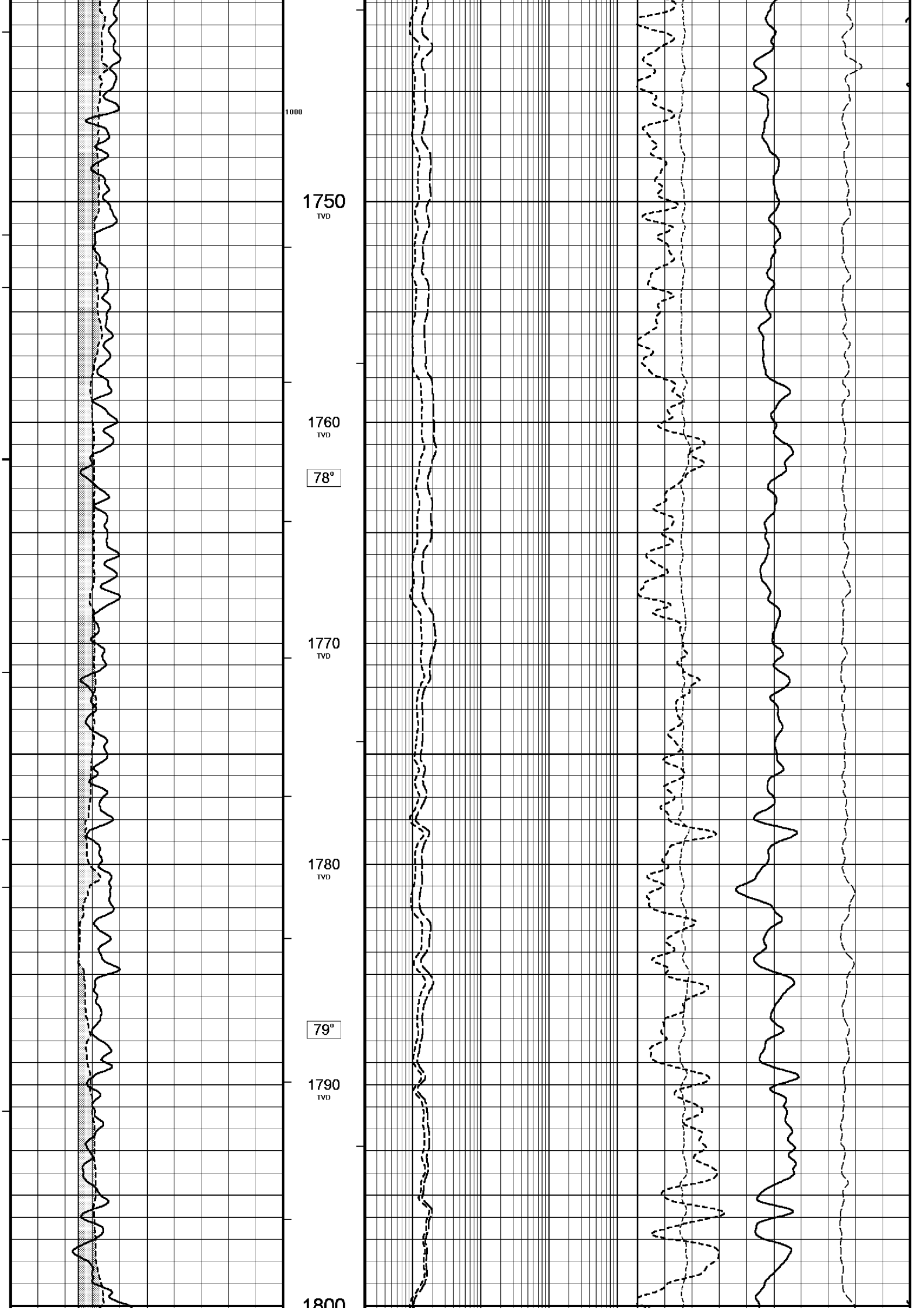


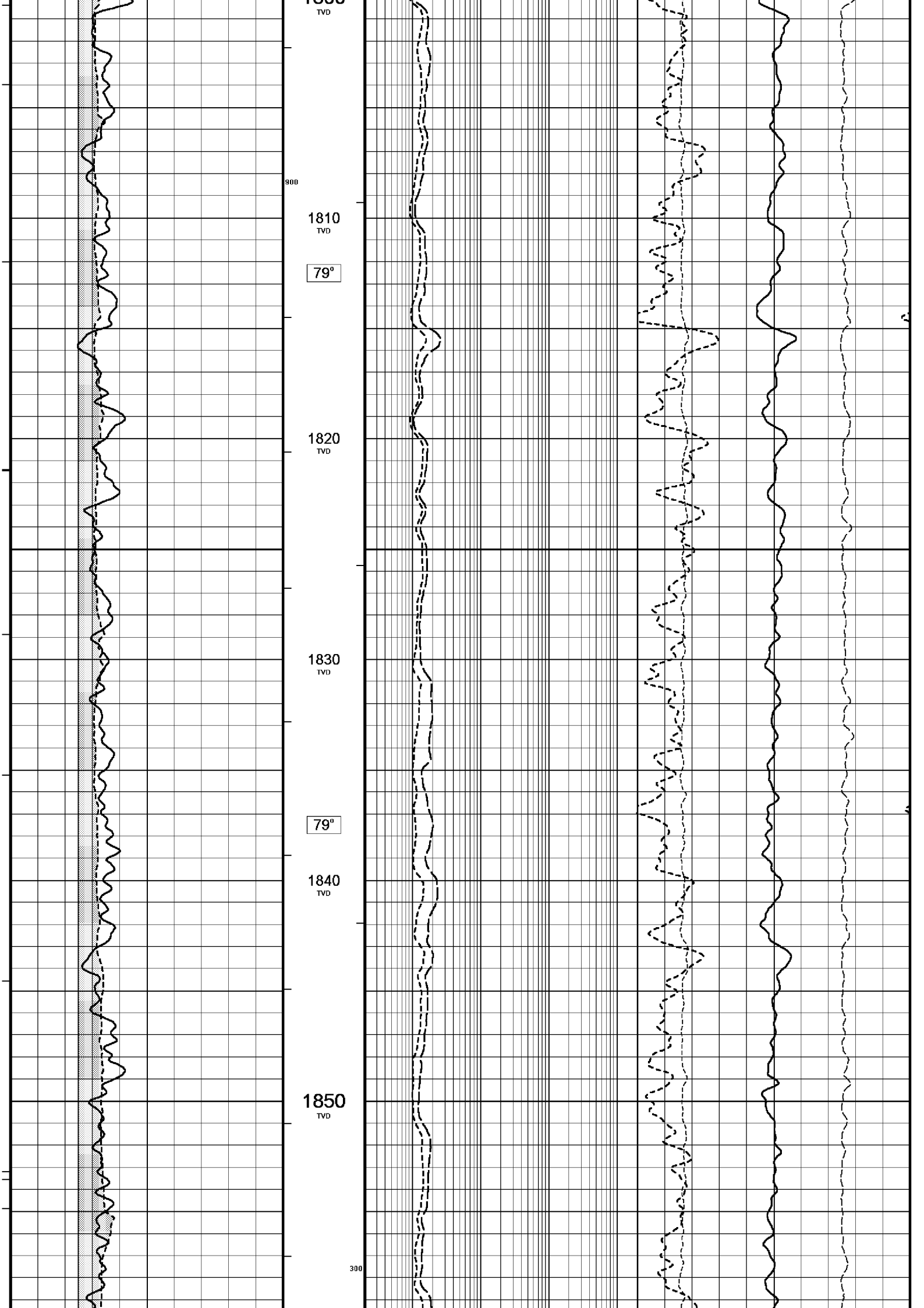


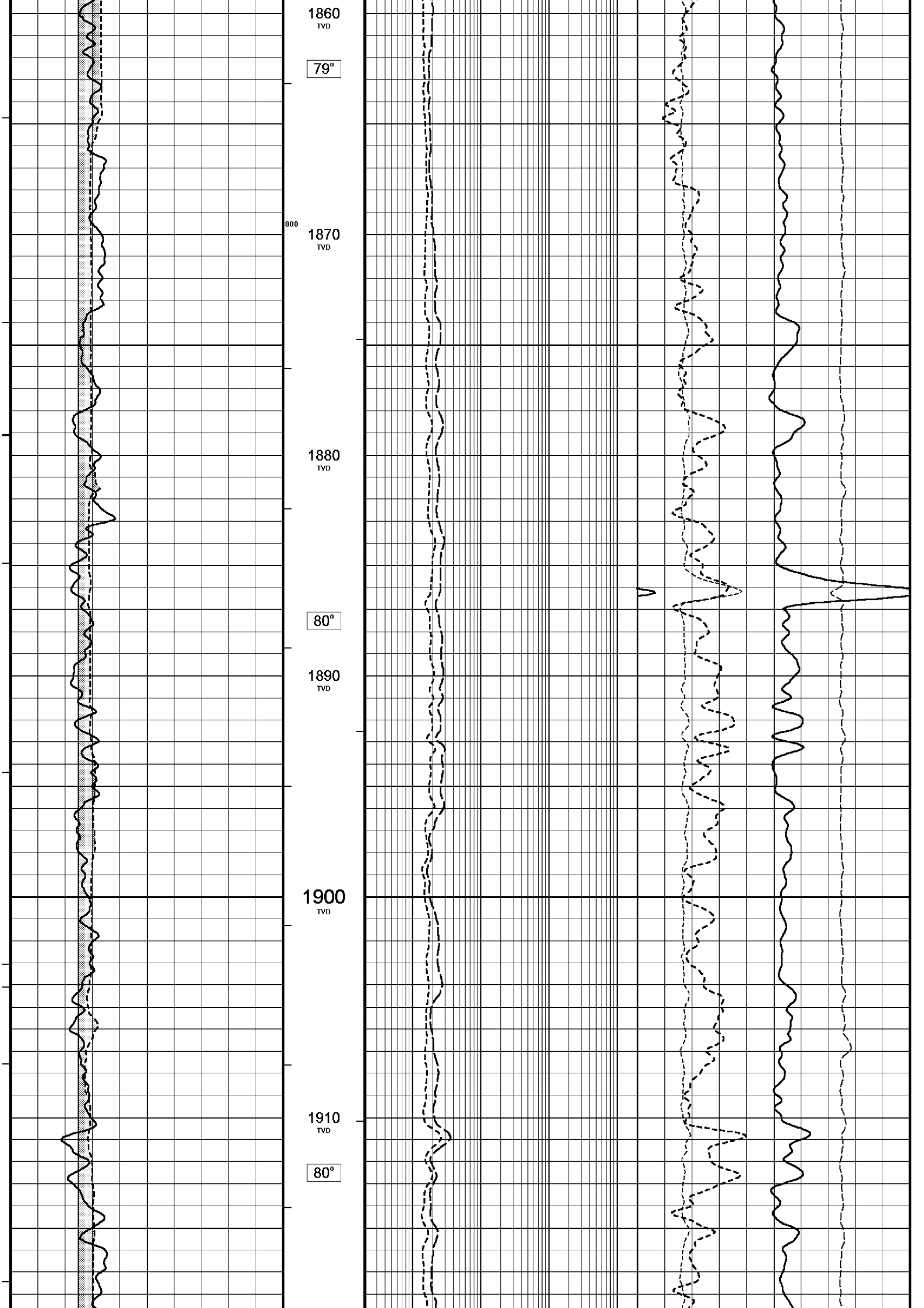


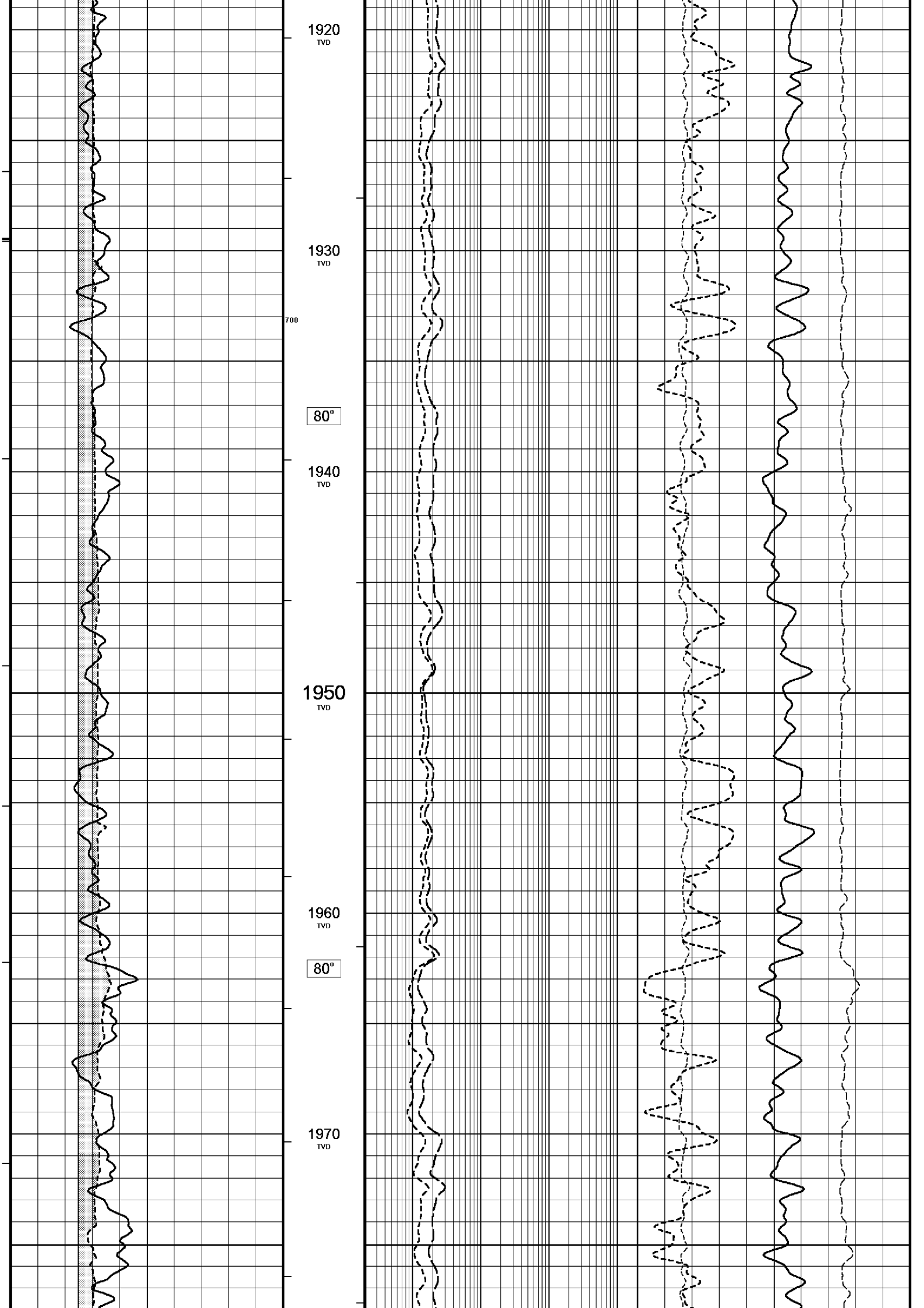


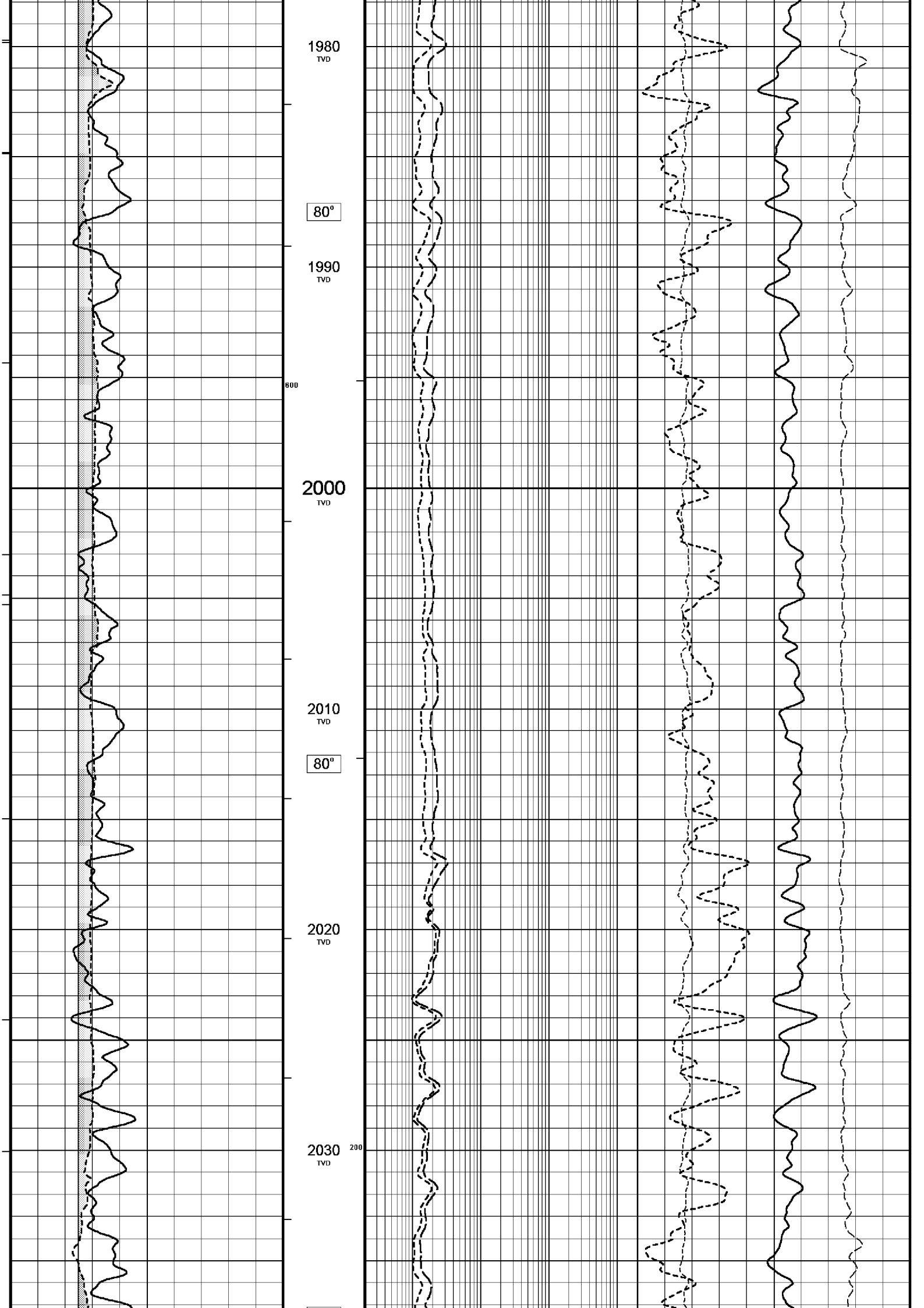


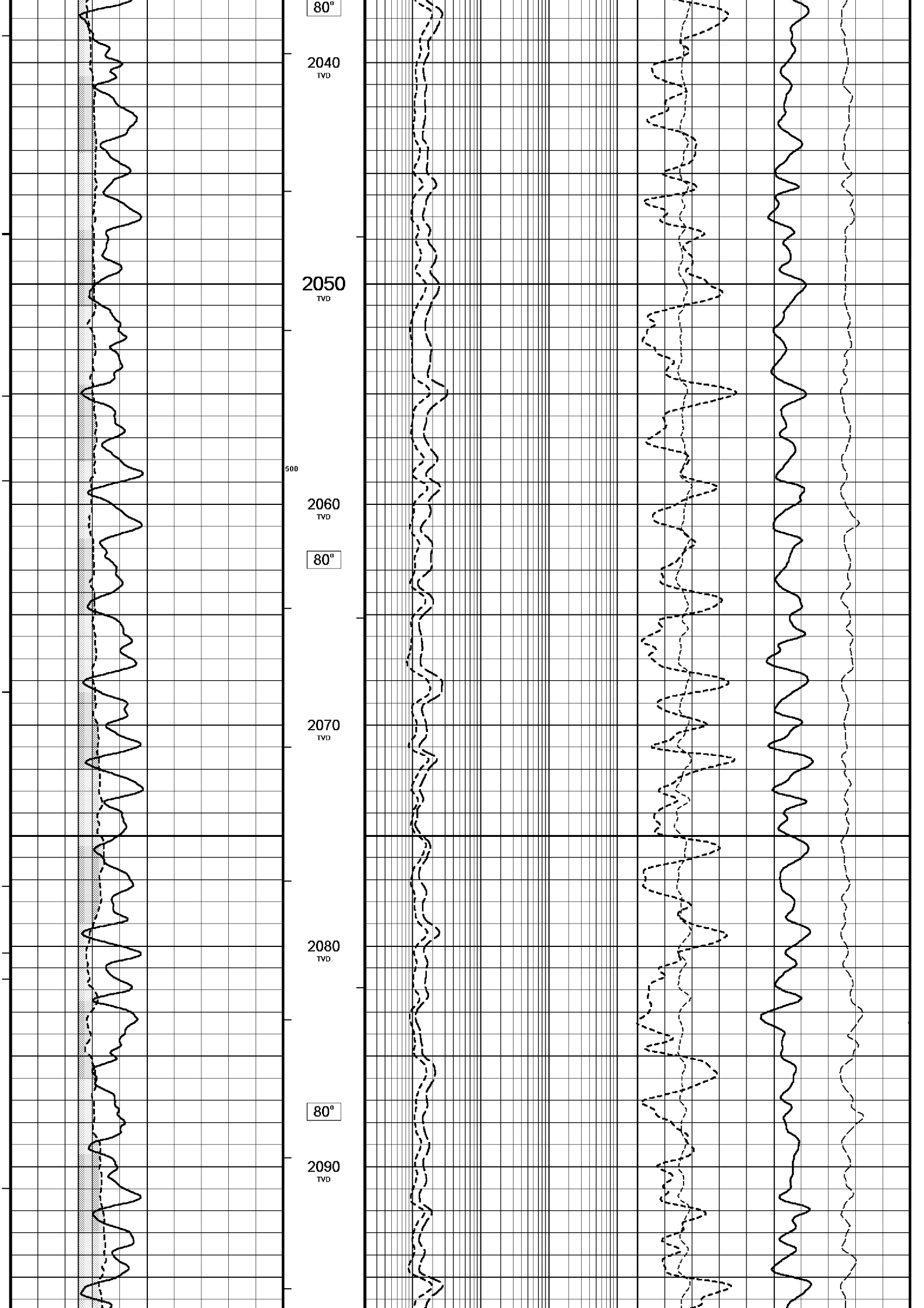


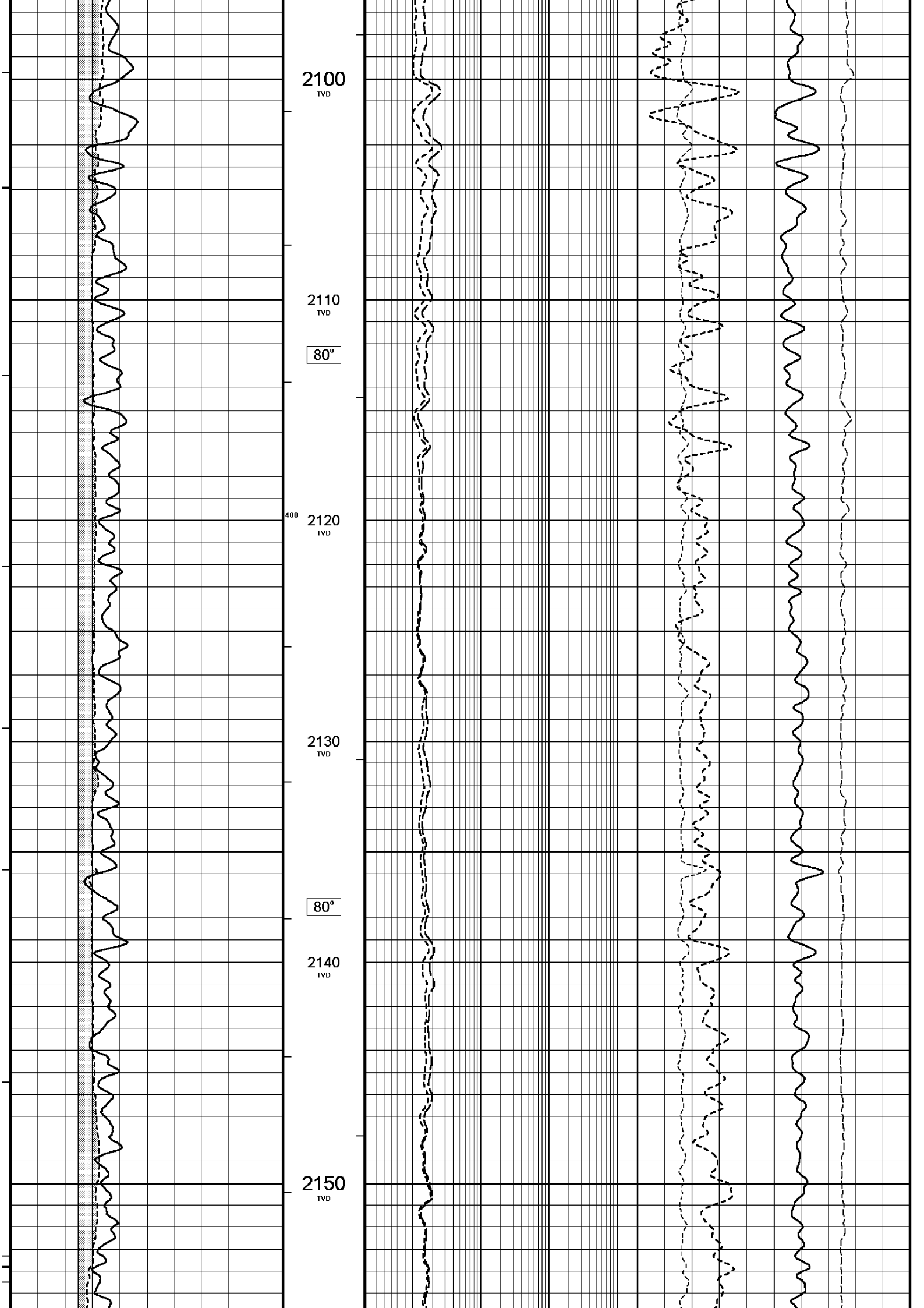




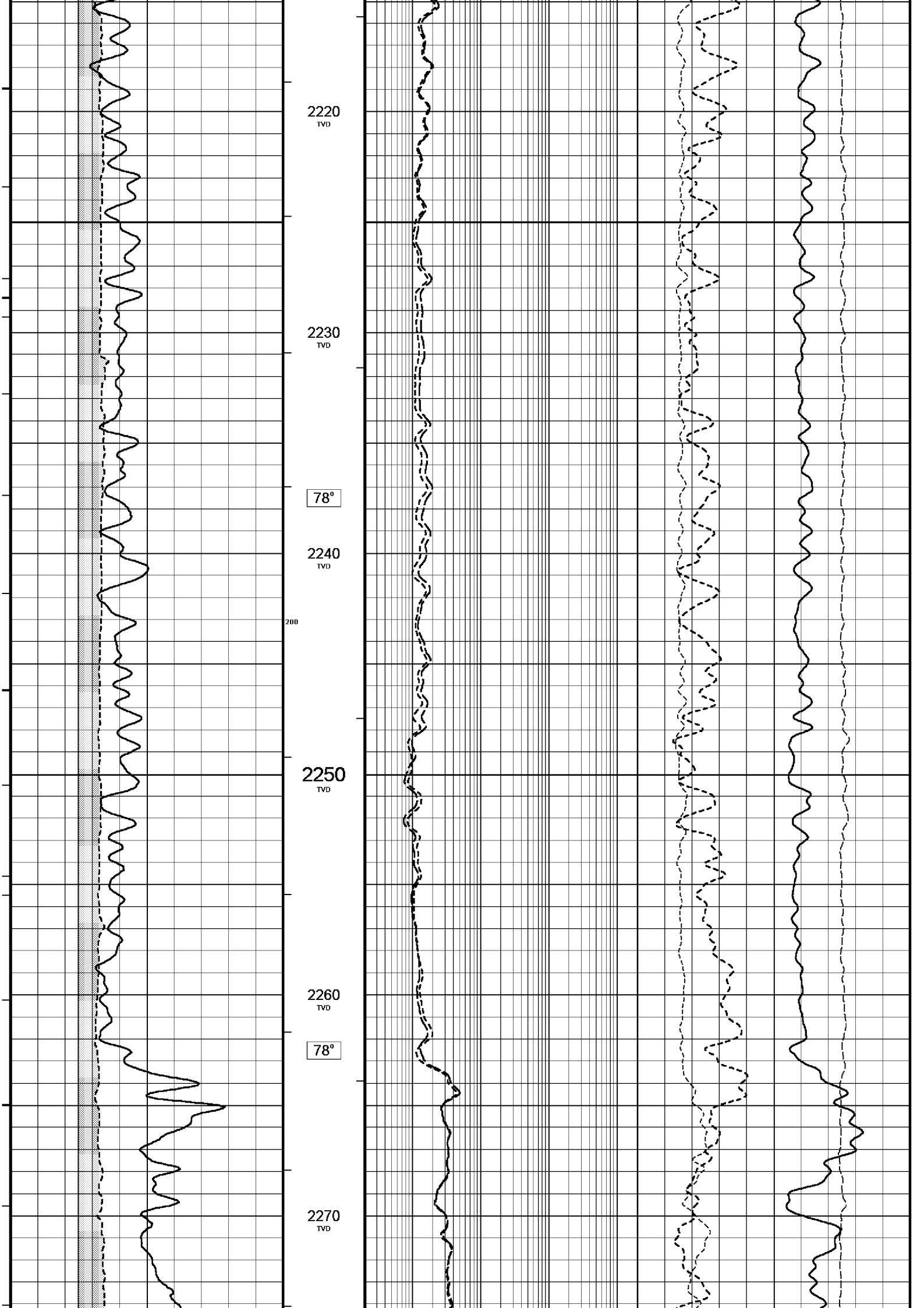


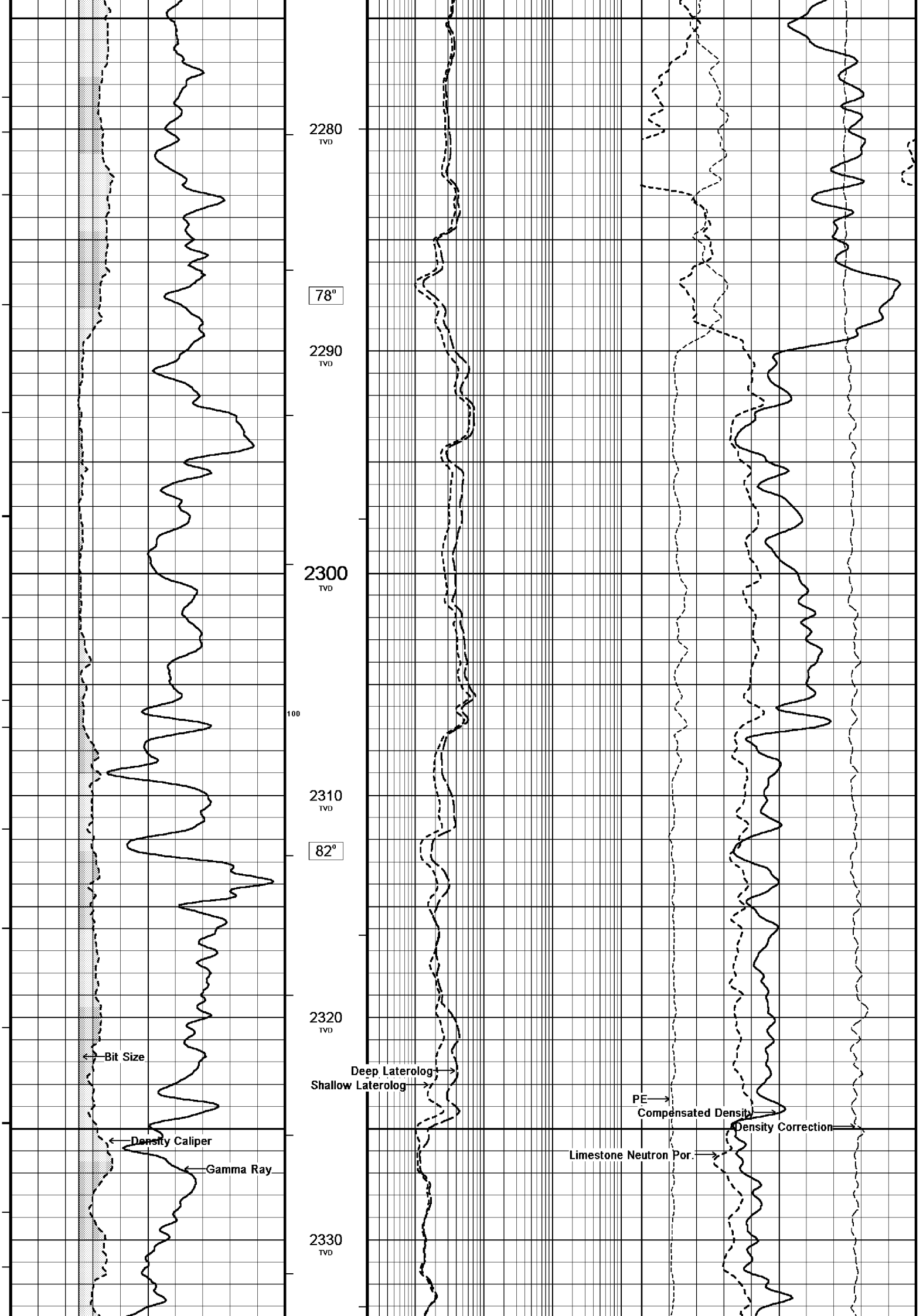


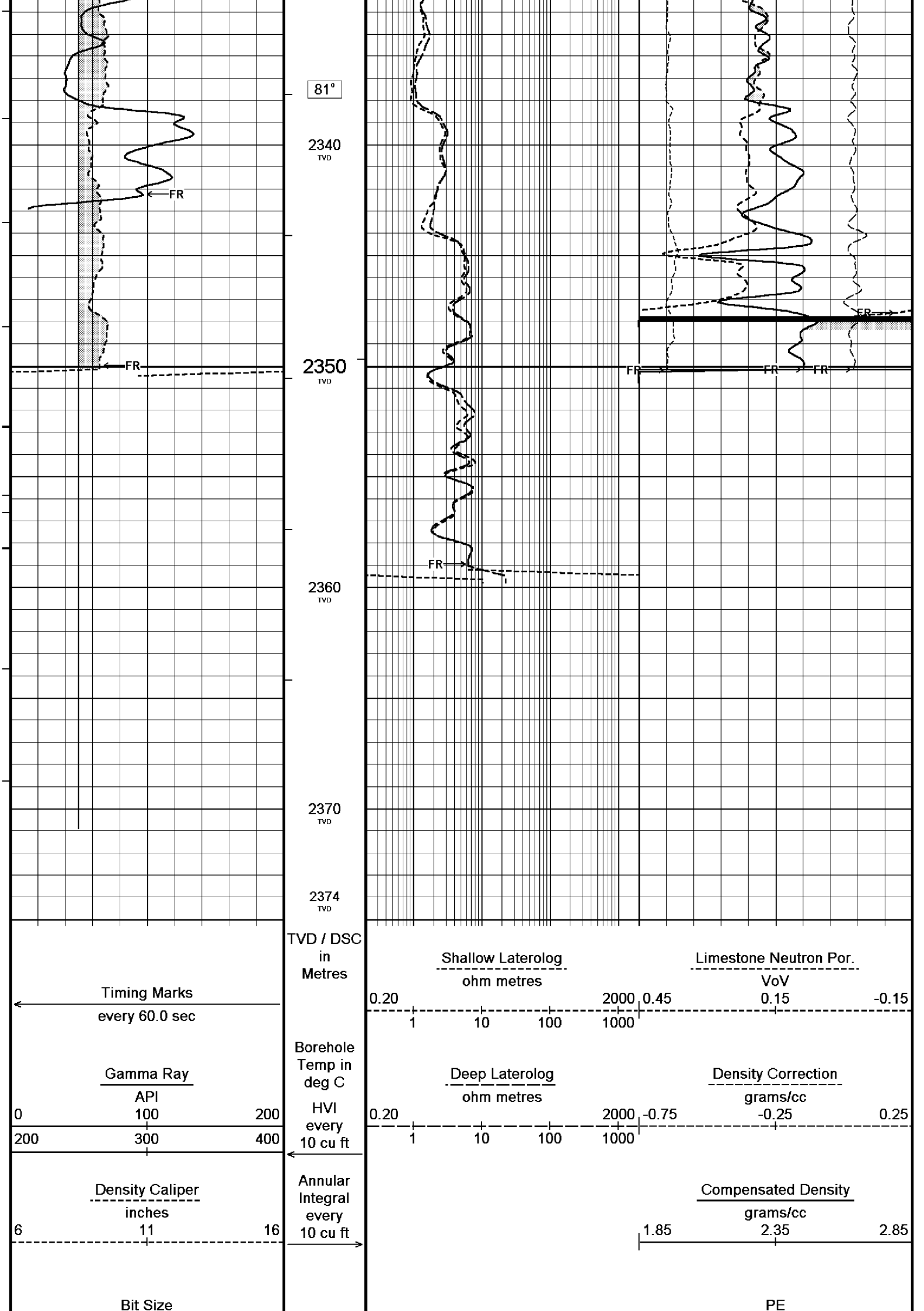












BEFORE SURVEY CALIBRATION			
C:\logs\WKF_W19A\FIELD DATA\WKF_W19A_MAIN_LOG.dta			
General Constants All 000			
General Parameters			
Mud Resistivity	0.122	ohm-metres	
Mud Resistivity Temperature	25.000	degrees C	
Water Level	0.000	metres	
Density/Neutron Processing	Wet Hole		
Hole/Annular Volume and 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 Constants MDN 083

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)
2.71
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00

Depth (m)
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	Measured		Calibrated (ohm-m)	
	Resistor 1	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

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



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 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



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 W19A		
FIELD	KINGFISH GDA94		
PROVINCE/COUNTY	BASS STRAIT, VICTORIA		
COUNTRY/STATE	AUSTRALIA		

Elevation Kelly Bushing		metres	First Reading	2358.95	metres
Elevation Drill Floor	33.43	metres	Depth Driller	2373.41	metres
Elevation Ground Level	-76.13	metres	Depth Logger	2370.70	metres

	DUAL LATEROLOG - GR				
	DENSITY - NEUTRON				
	1:200 TVD				