



DUAL LATEROLOG - GR
DENSITY - NEUTRON

Compact

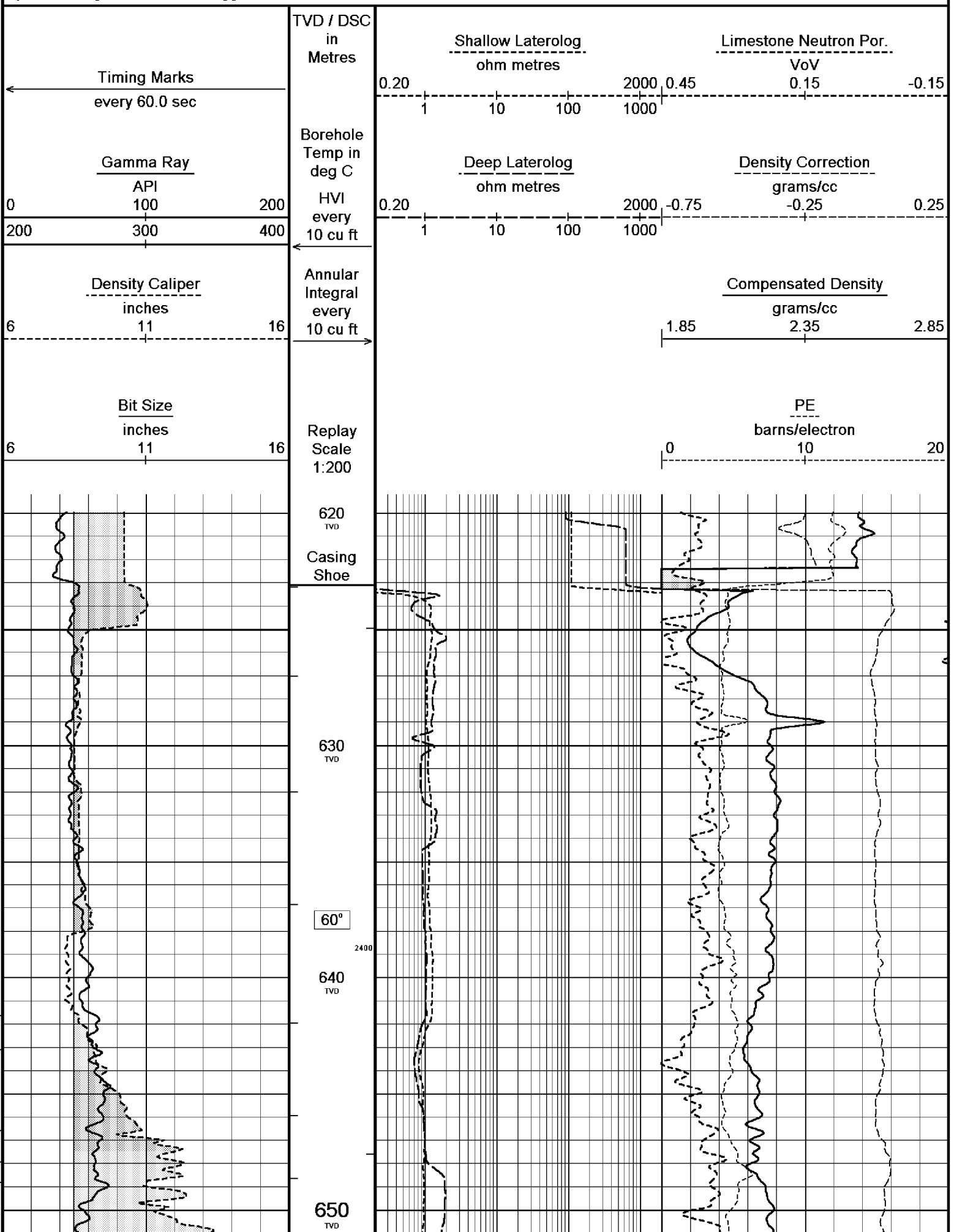
1:200 TVD

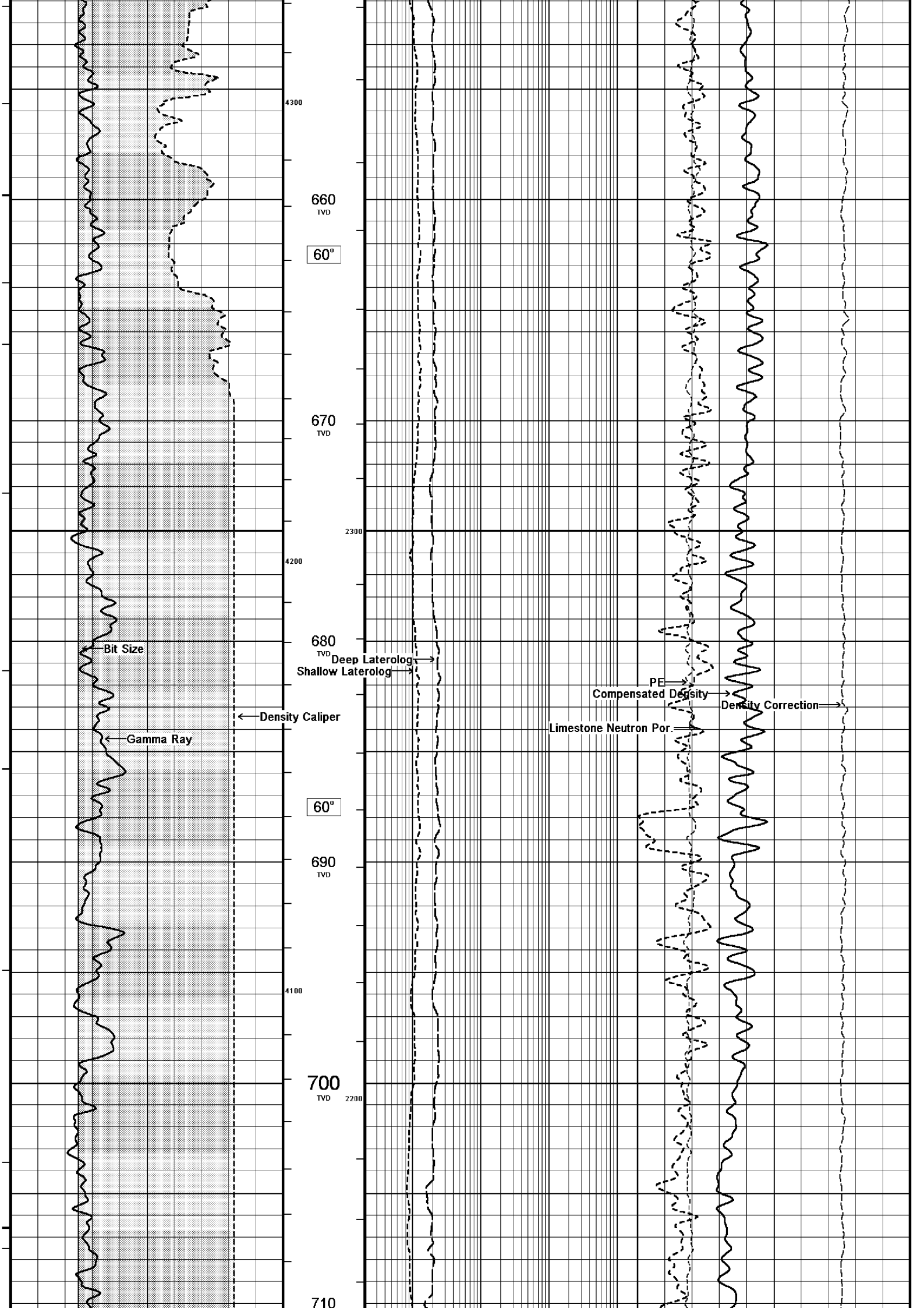
COMPANY				ESSO AUSTRALIA PTY.LTD			
WELL				WKF W20A			
FIELD				KINGFISH GDA94			
PROVINCE/COUNTY				BASS STRAIT, VICTORIA			
COUNTRY/STATE				AUSTRALIA			
LOCATION				S 38 35 34.835, E 148 6 19.406			
				N 5727806.701 m, E 596264.969 m			
				FIELD PRINT			
LSD	SEC	TWP	RGE	Other Services			
				COMPENSATED SONIC			
API Number							
Permit Number							
Permanent Datum L				, Elevation 0.0 metres		Elevations:	
Log Measured From DF @ 33.4m				above Permanent Datum		KB	metres
Drilling Measured From DF						DF	33.43 metres
						GL	-76.13 metres
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	CWL						
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			

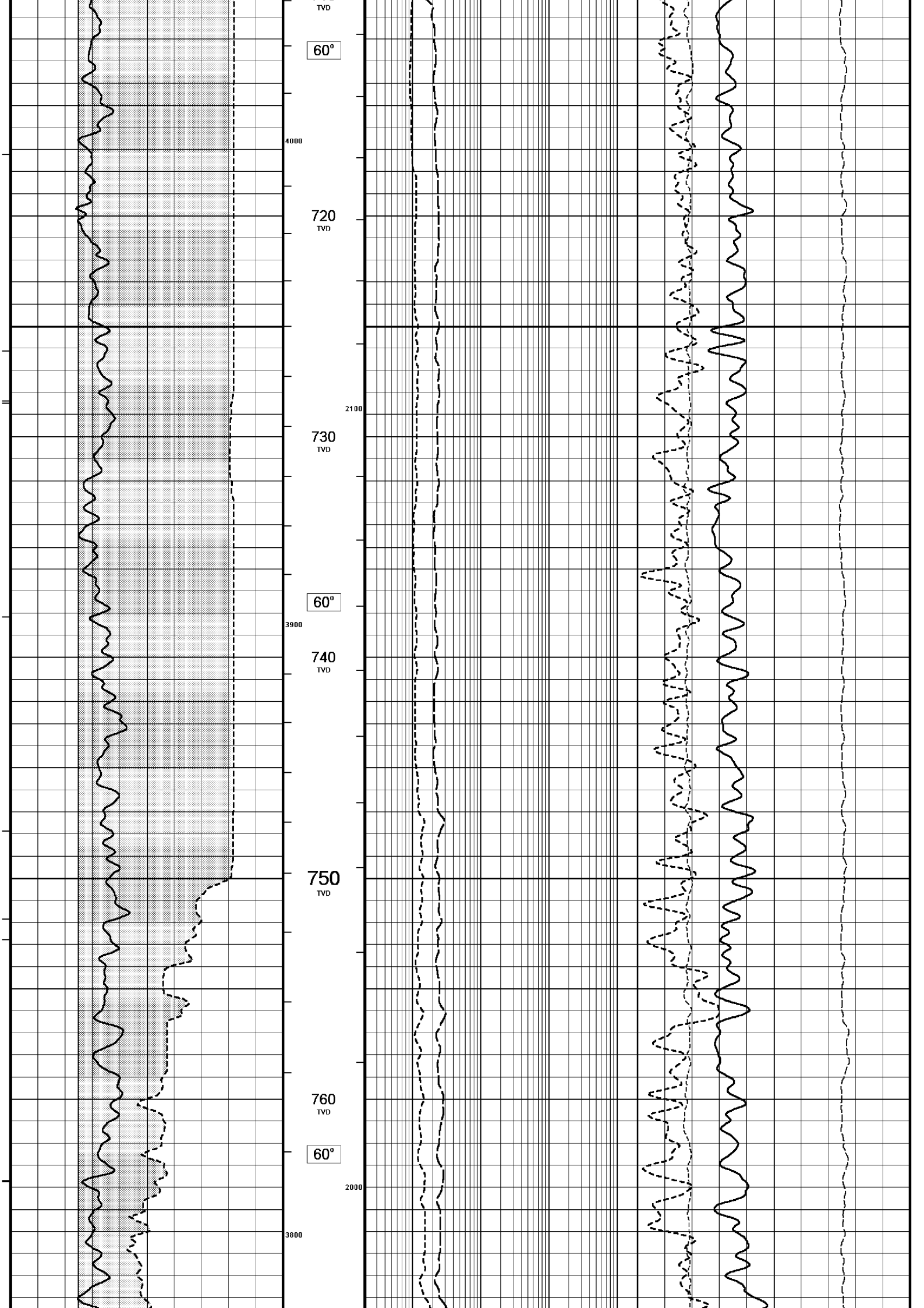
BOREHOLE RECORD				
Bit Size inches		Depth From metres		Depth To metres
8.500		675.00		2946.00
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	10.750	0.00	675.00	40.50

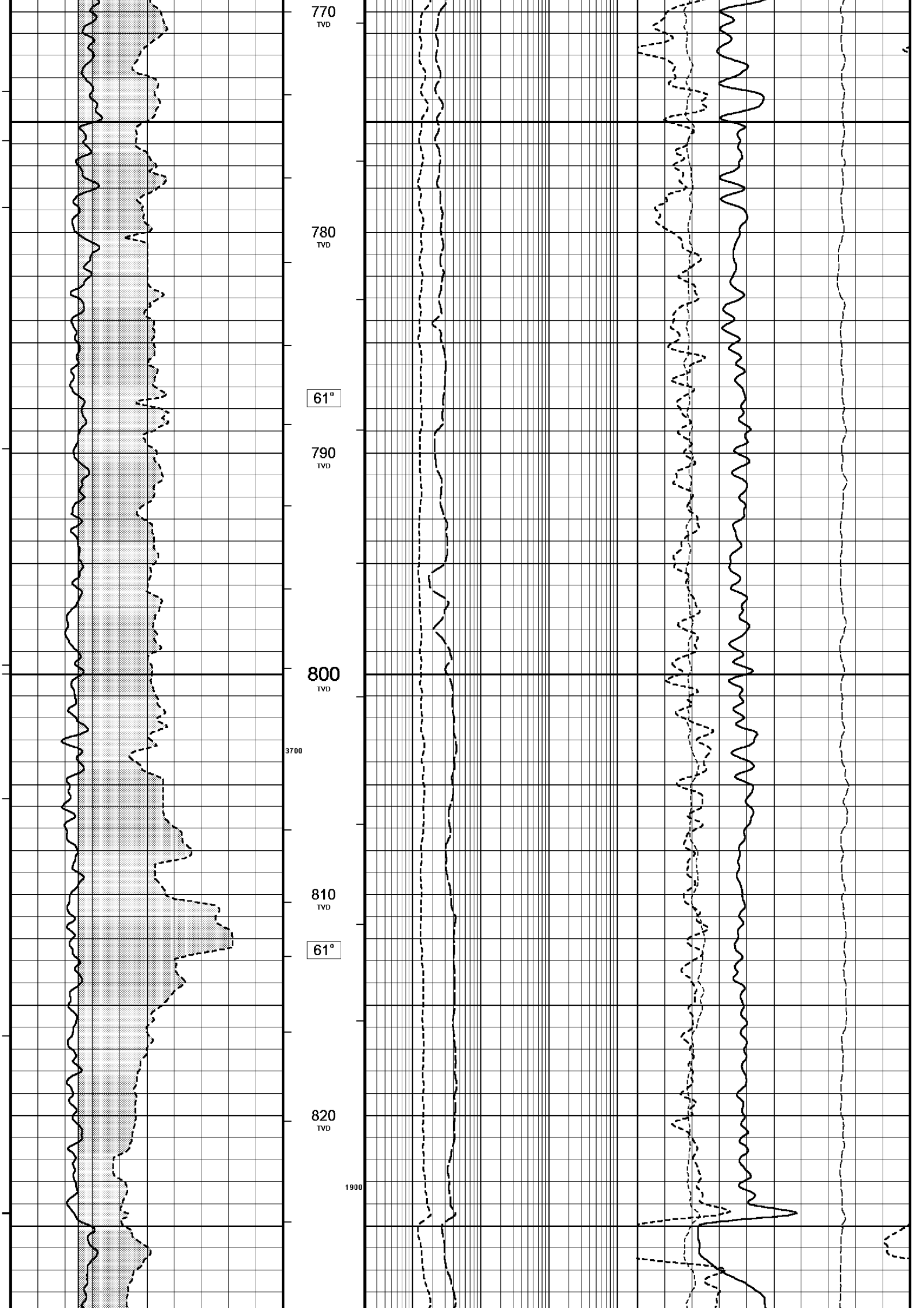
REMARKS
RIG: NABORS 453
5" SHUTTLE/MEMORY COMPACT OPERATION. CREW: R TENCH , B MOSS , B GOODWIN, M KOLCZE.
FIELD FINAL LOGS TO BE CORRELATED TO ANADRILL GAMMA LOG.
MAX. TEMPERATURE: 91.2 DEG C AT 2906.3 m MD MAX. INCLINATION: 75.9 DEG AT 2946 m MD MAX. DOGLEG SERVERITY: 9.0 DEG/30m AT 706.79 m MD DEPLOYMENT 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

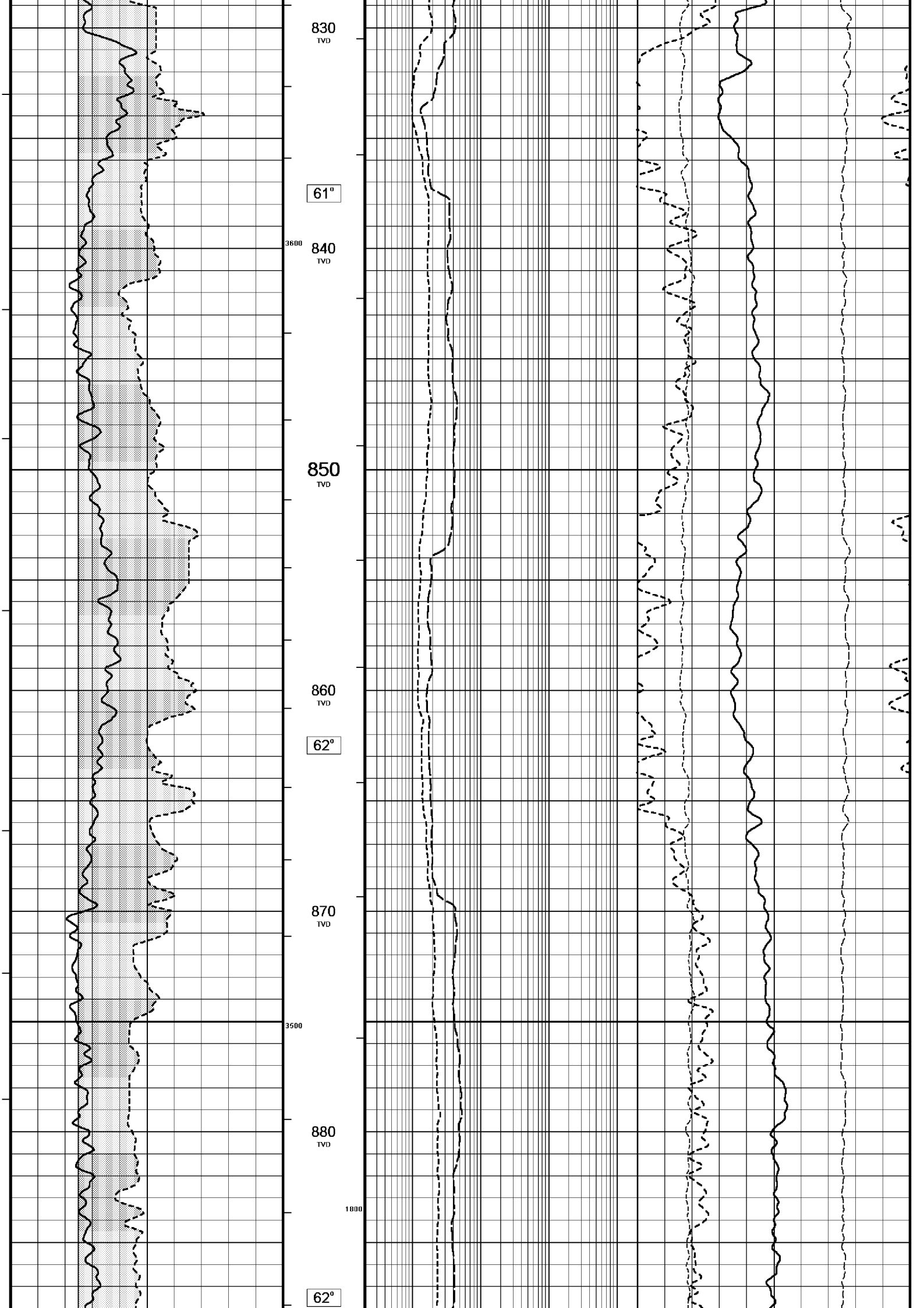
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for

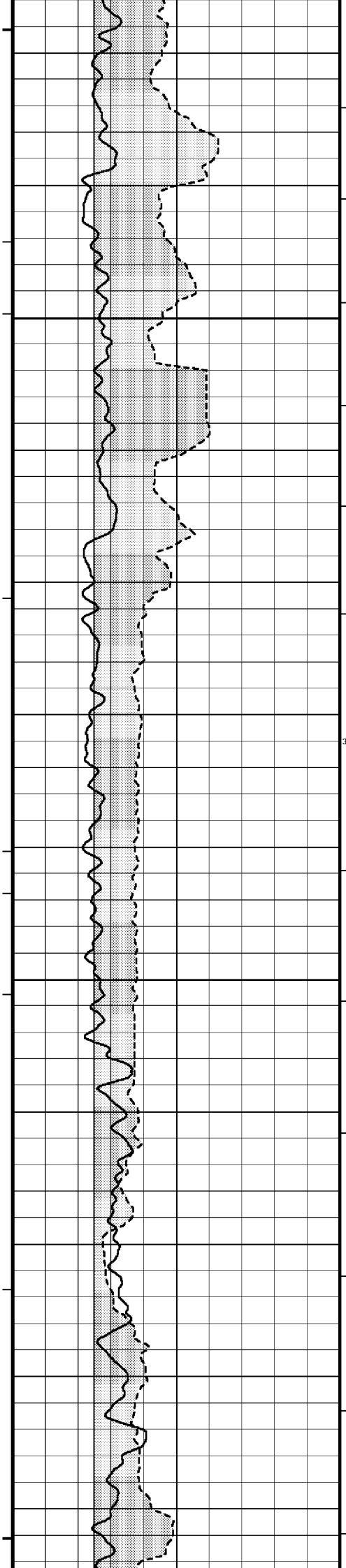












890
TVD

900
TVD

910
TVD

63°

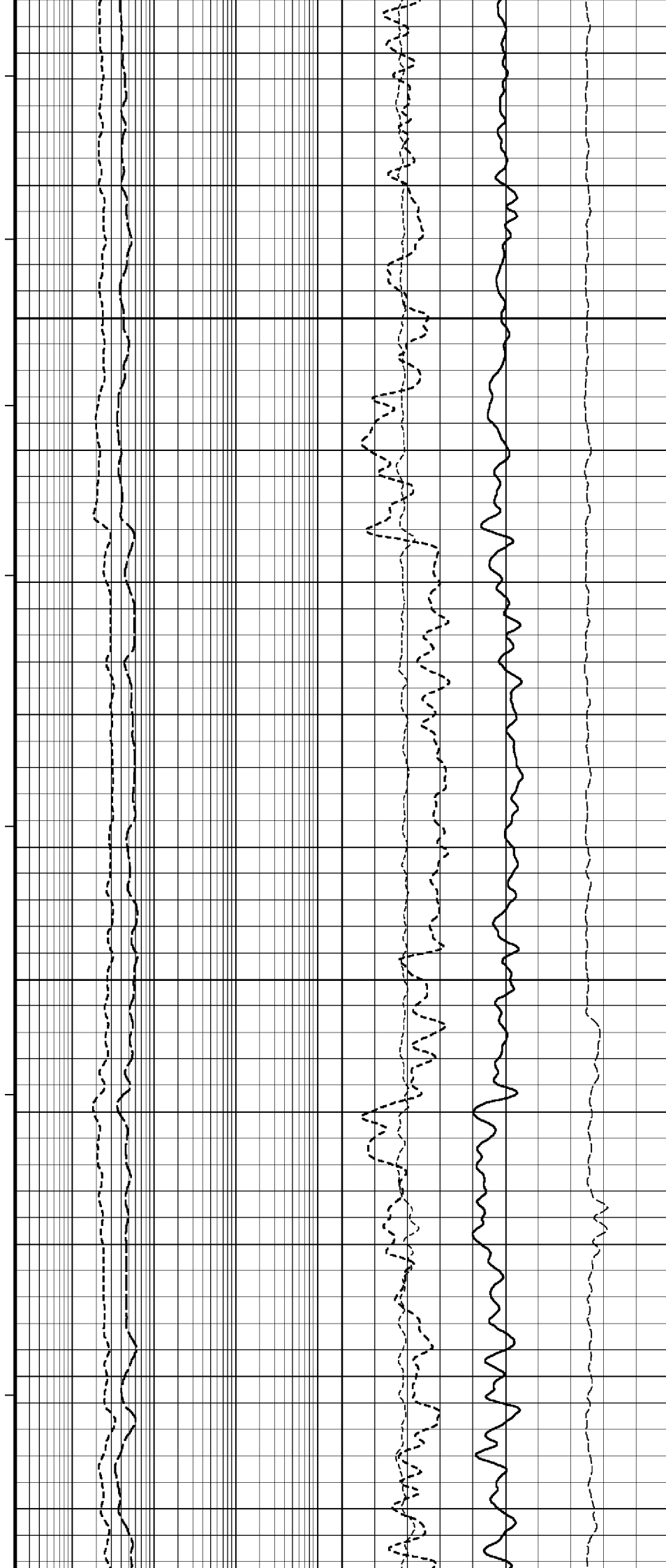
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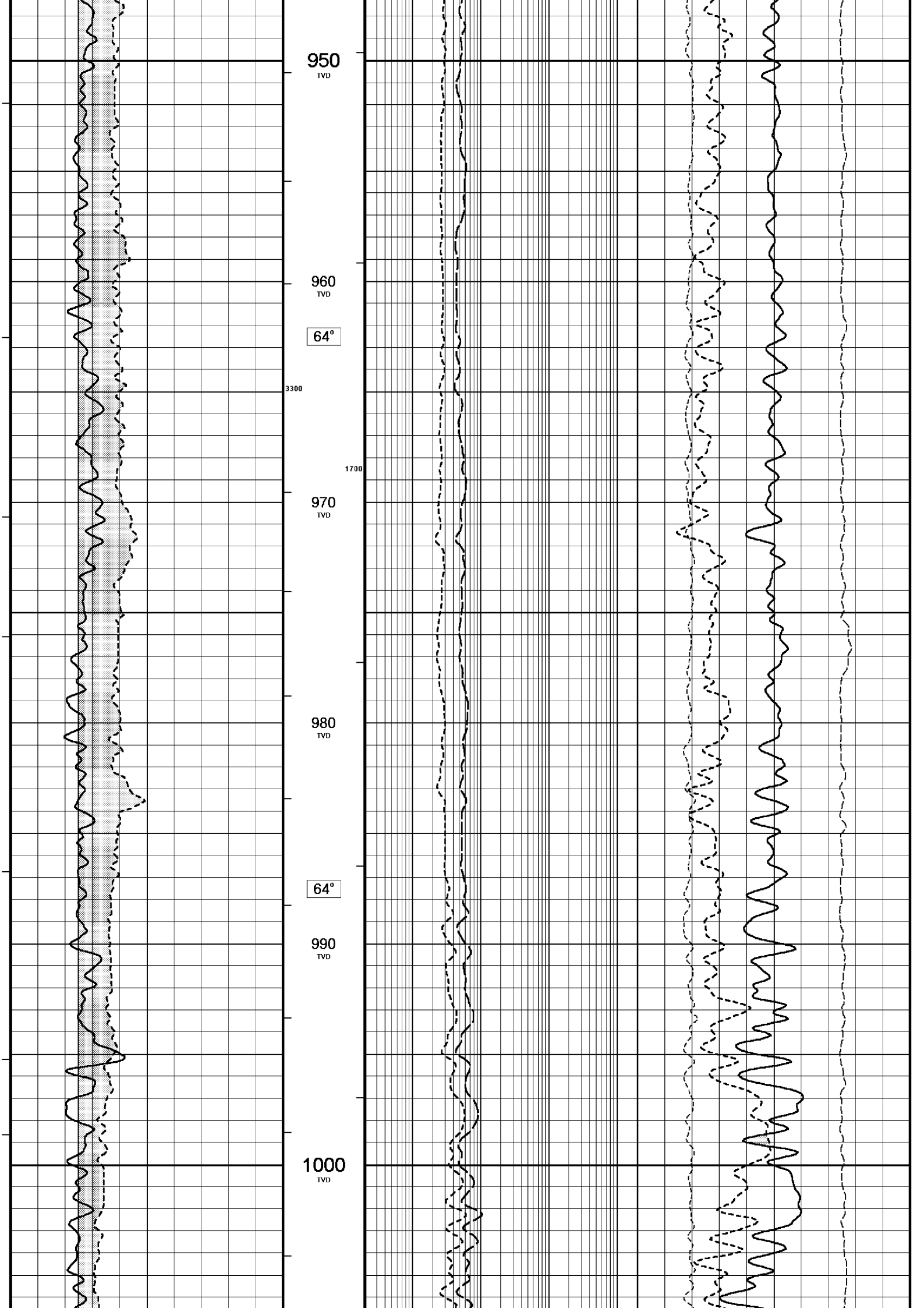
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TVD

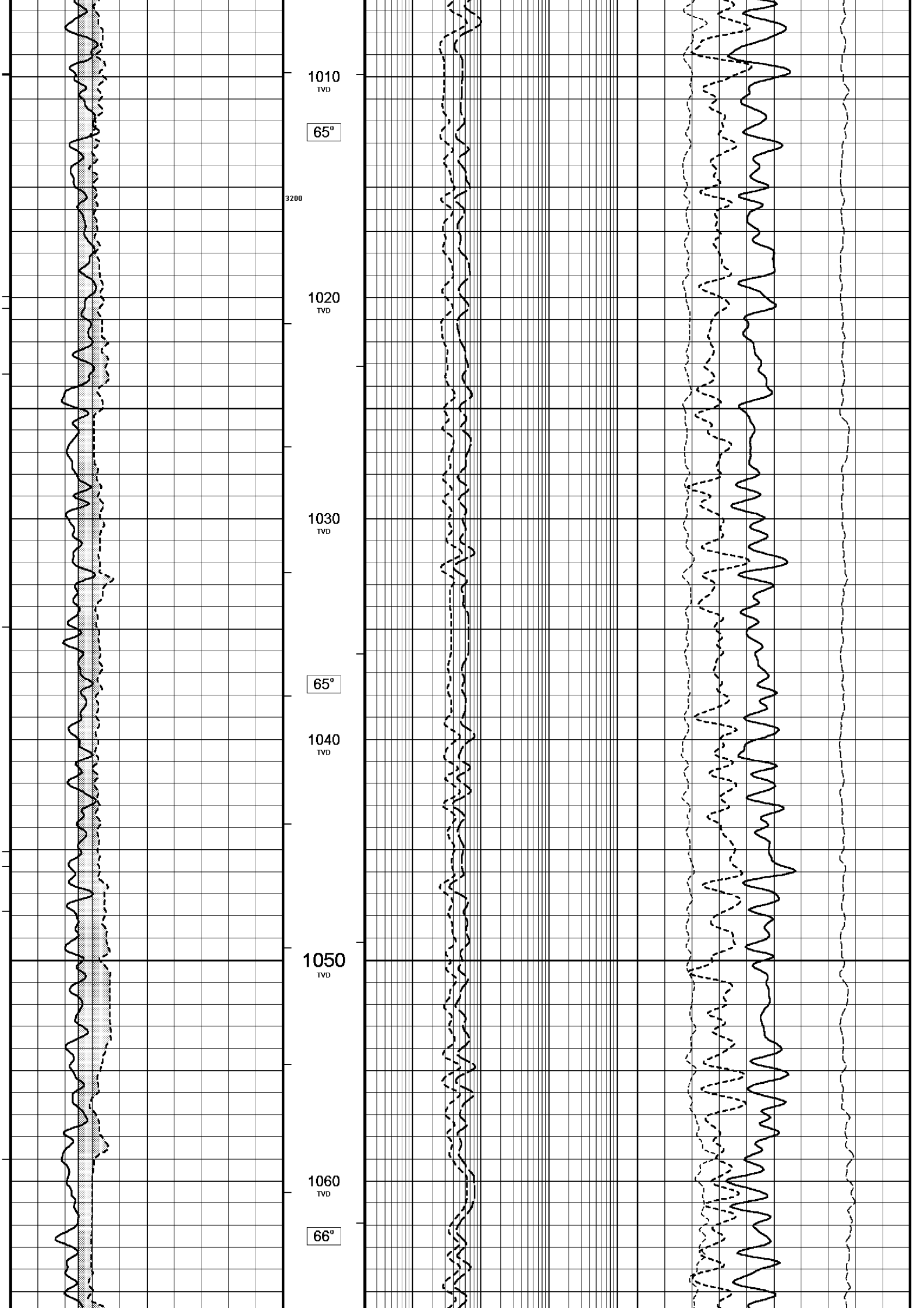
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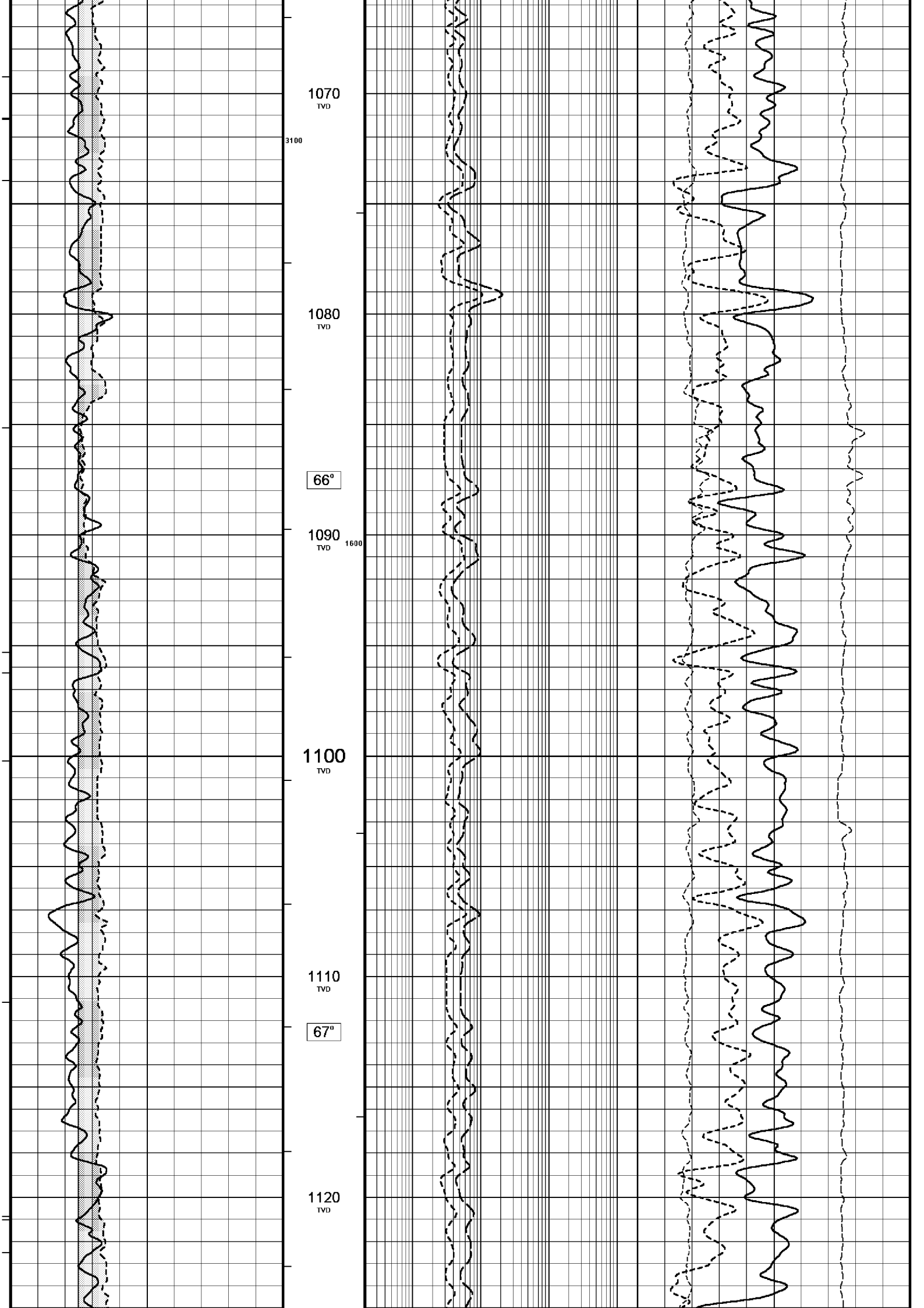
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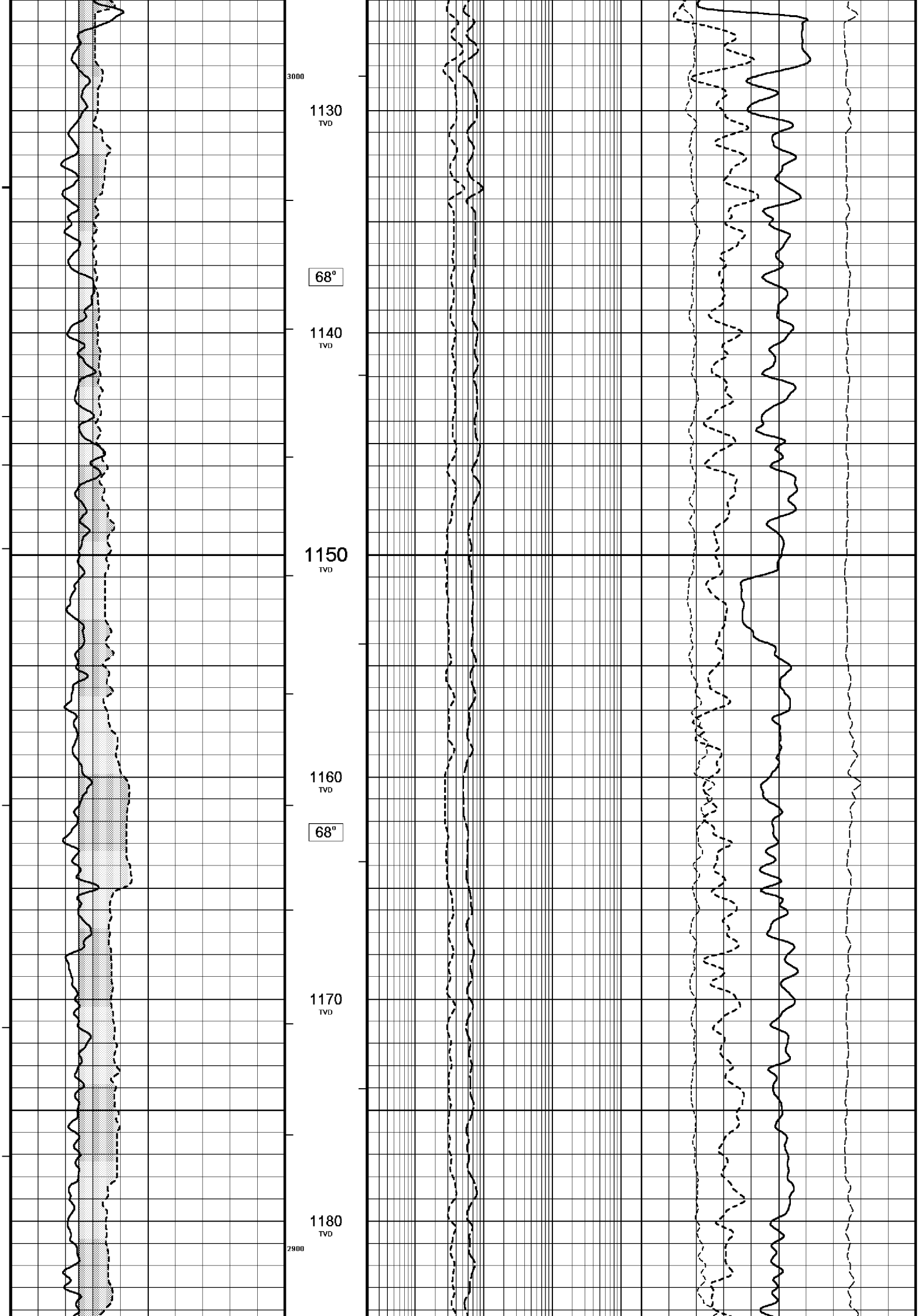
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TVD

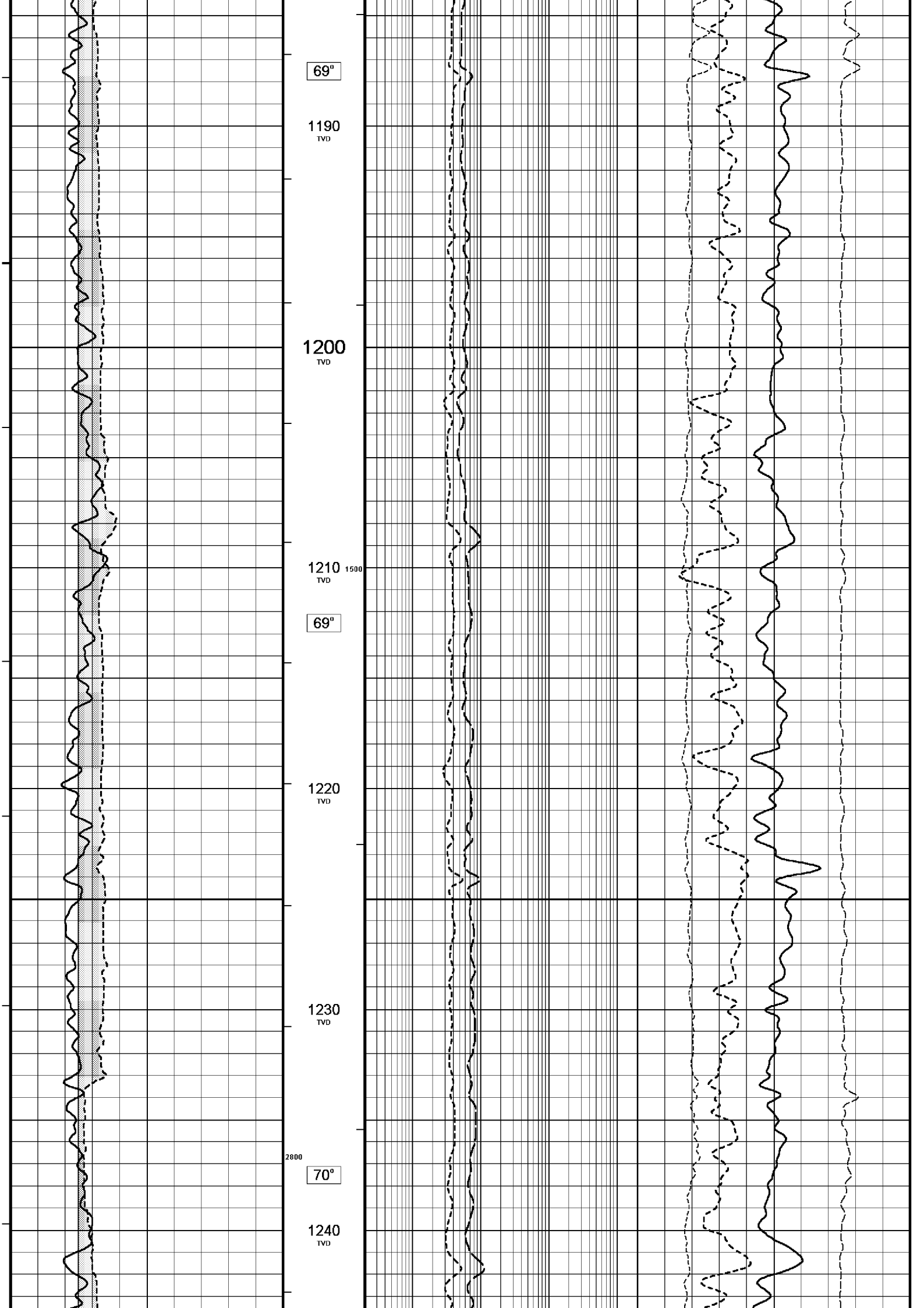


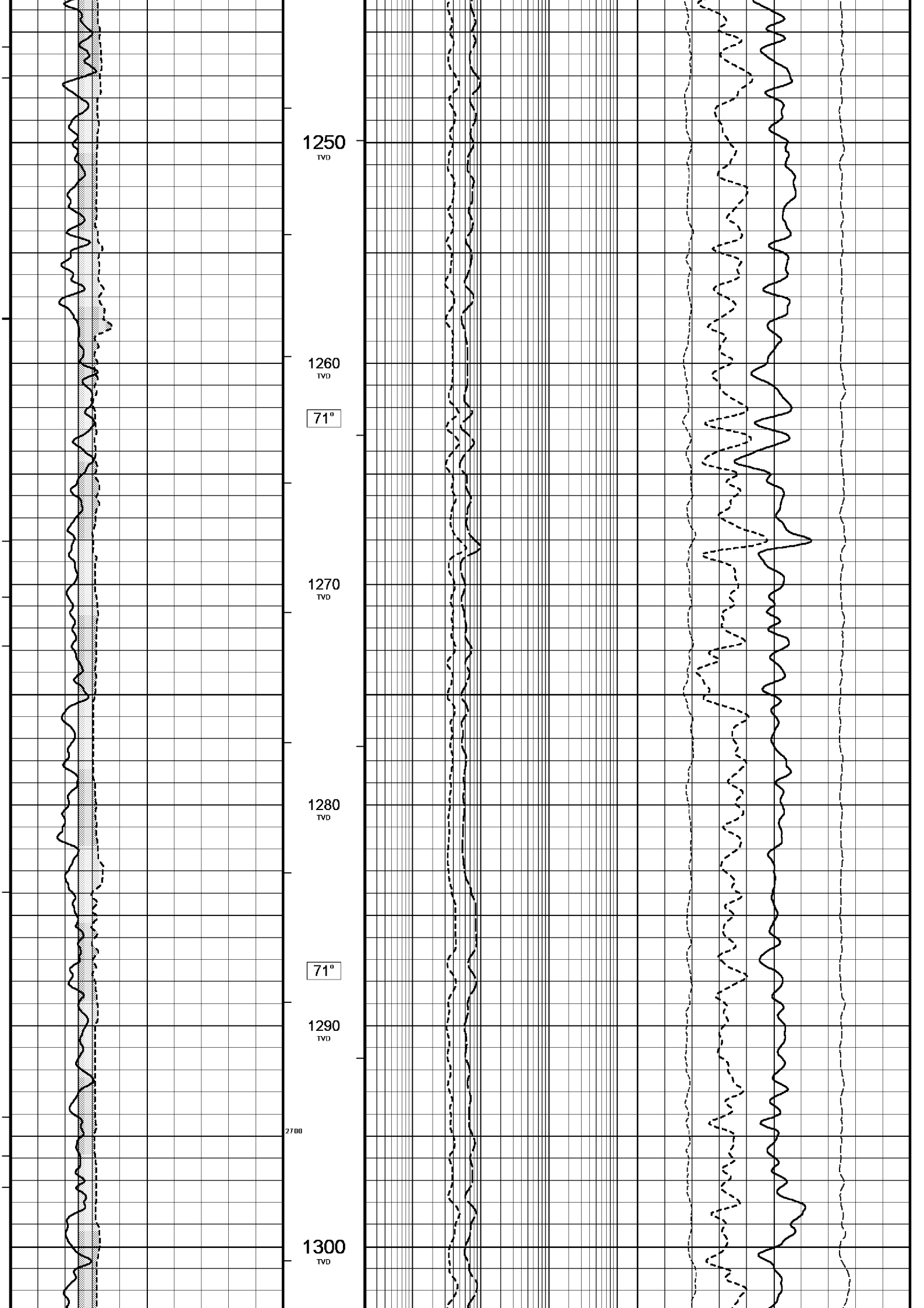


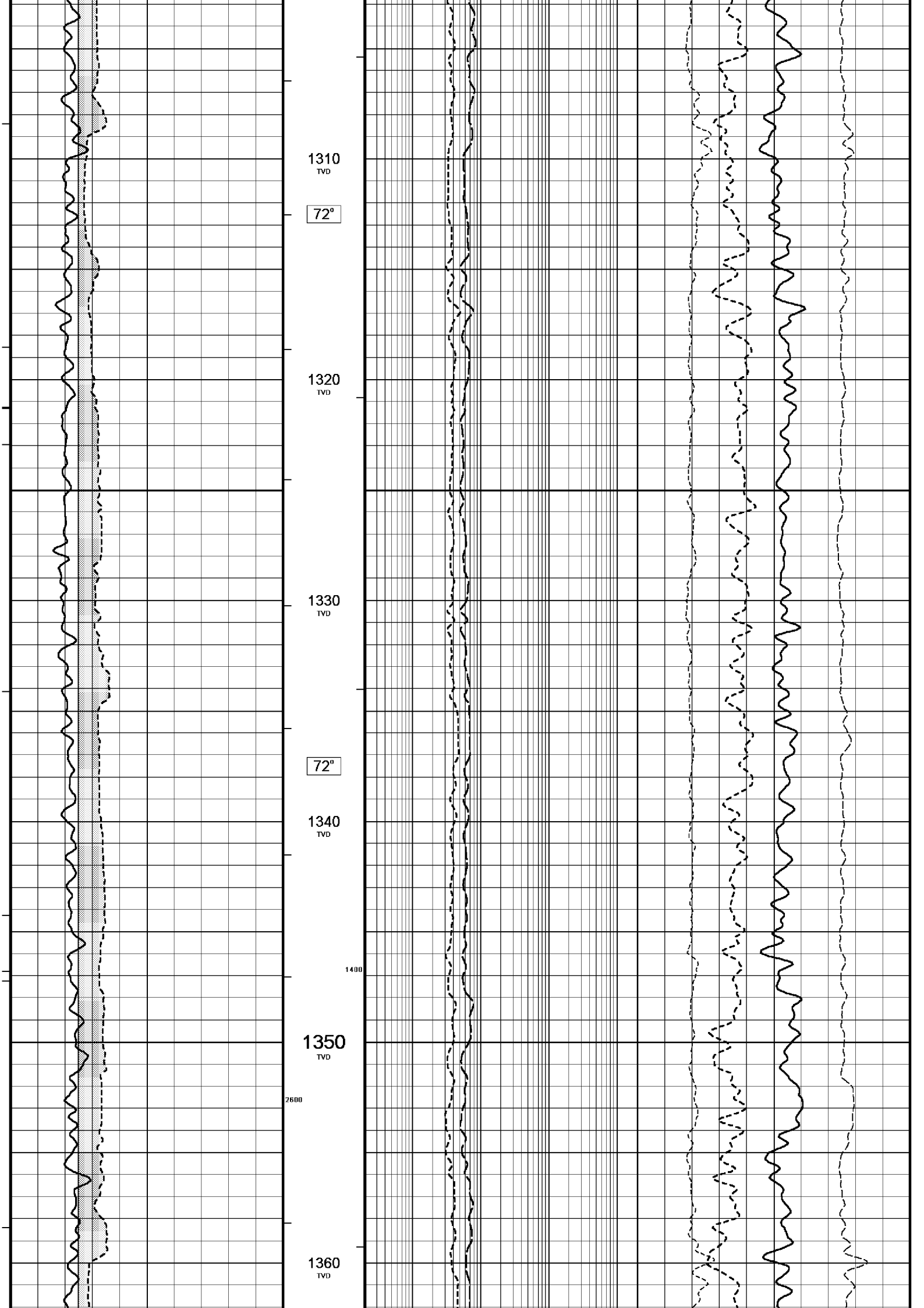


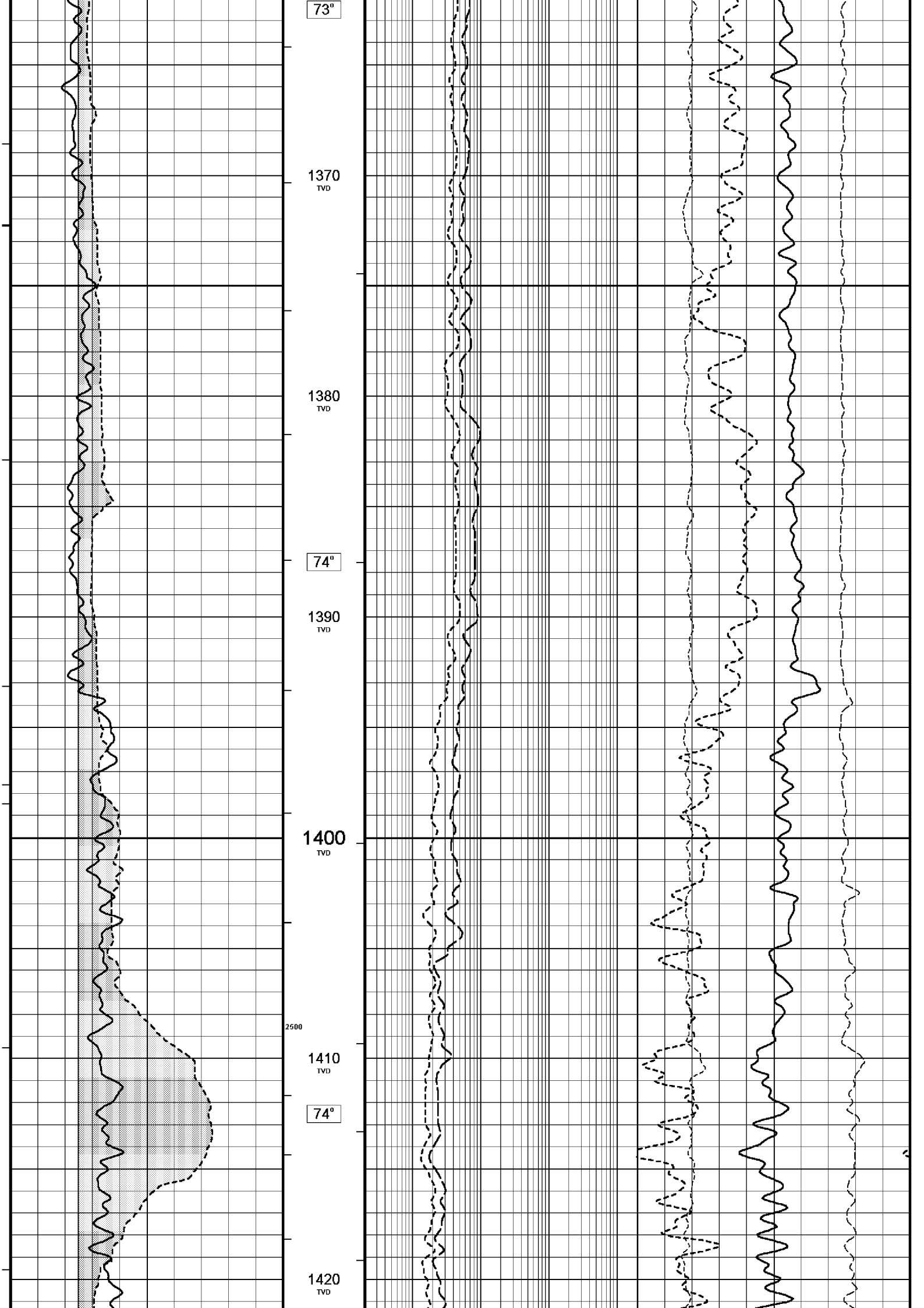


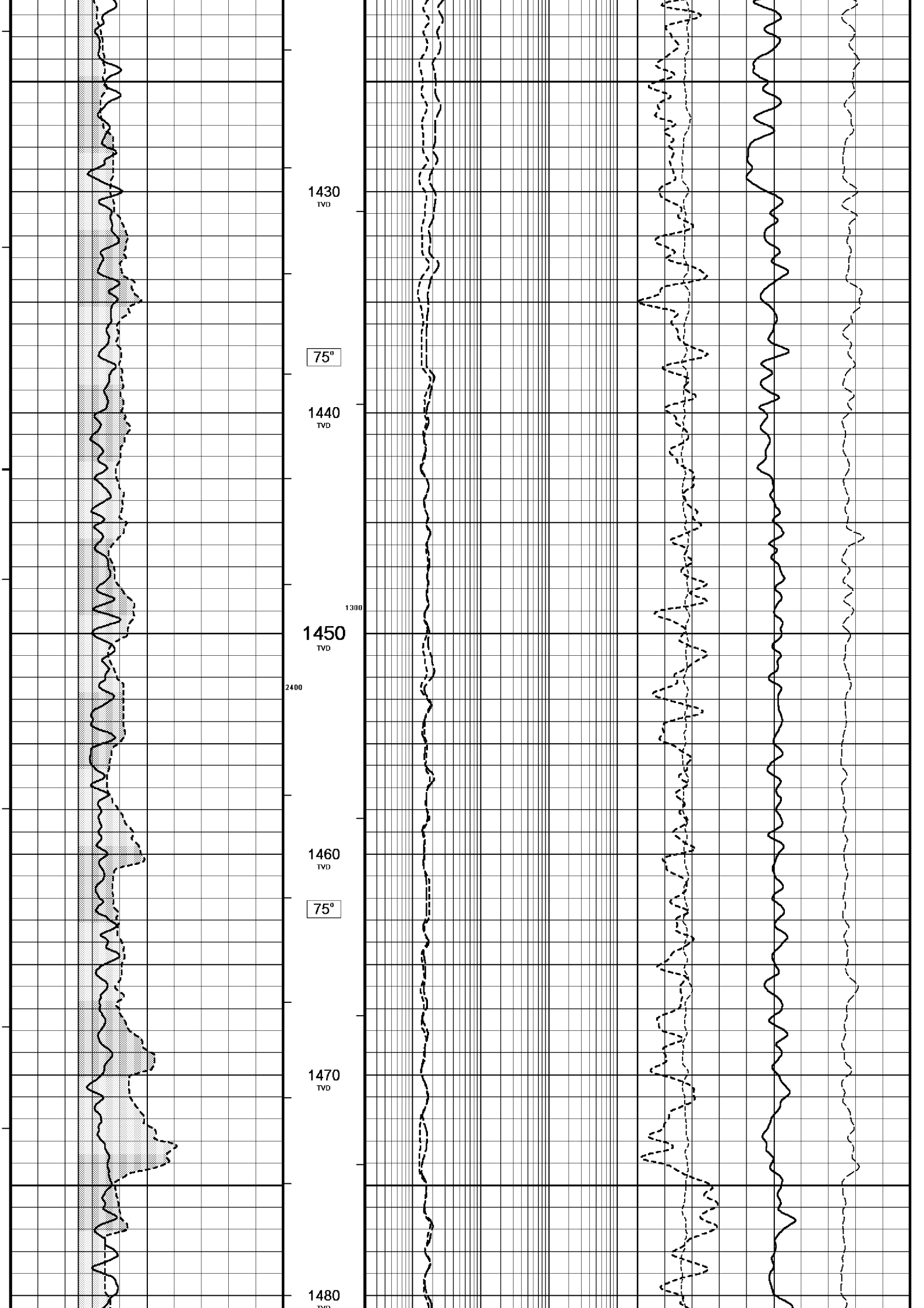


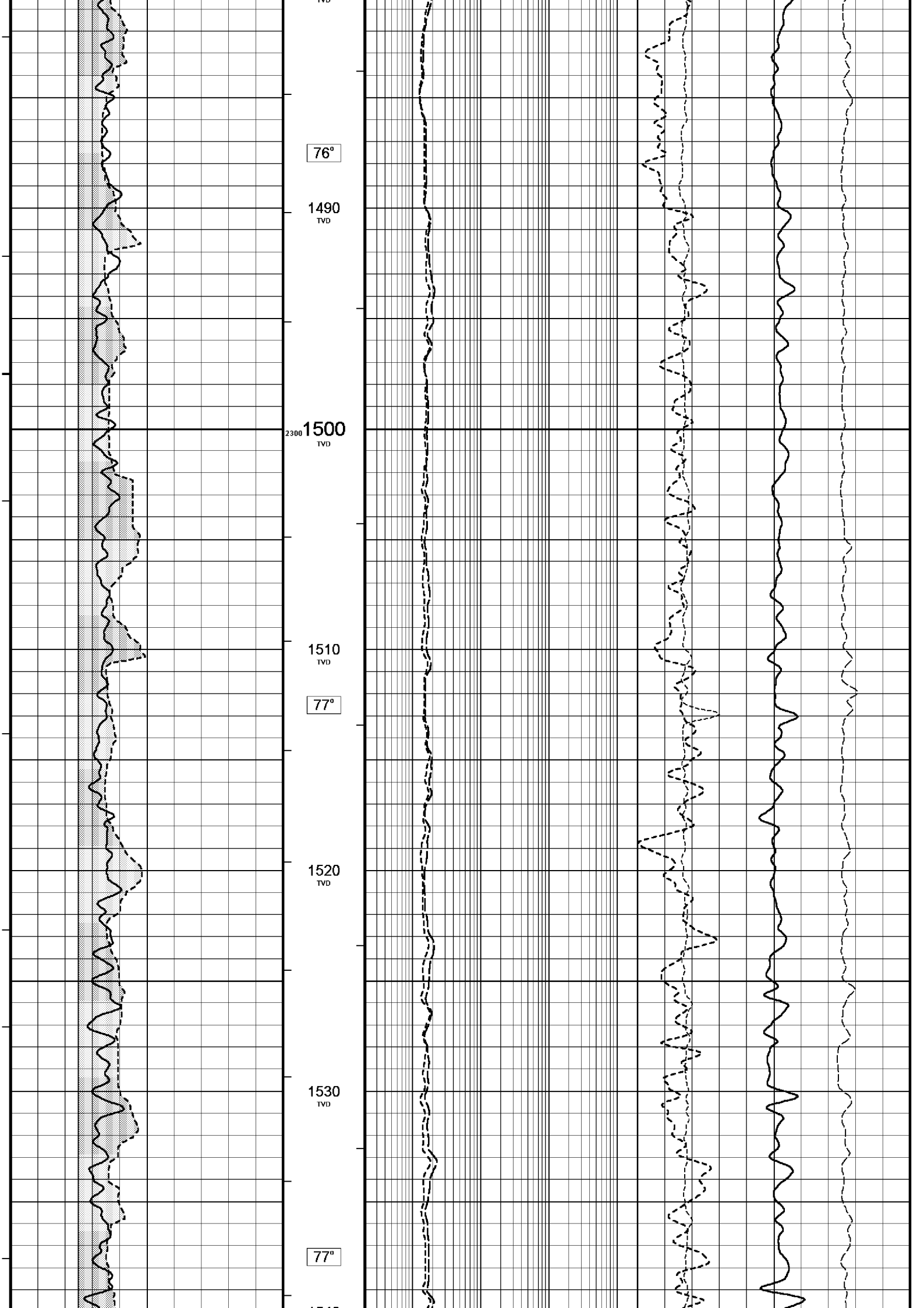


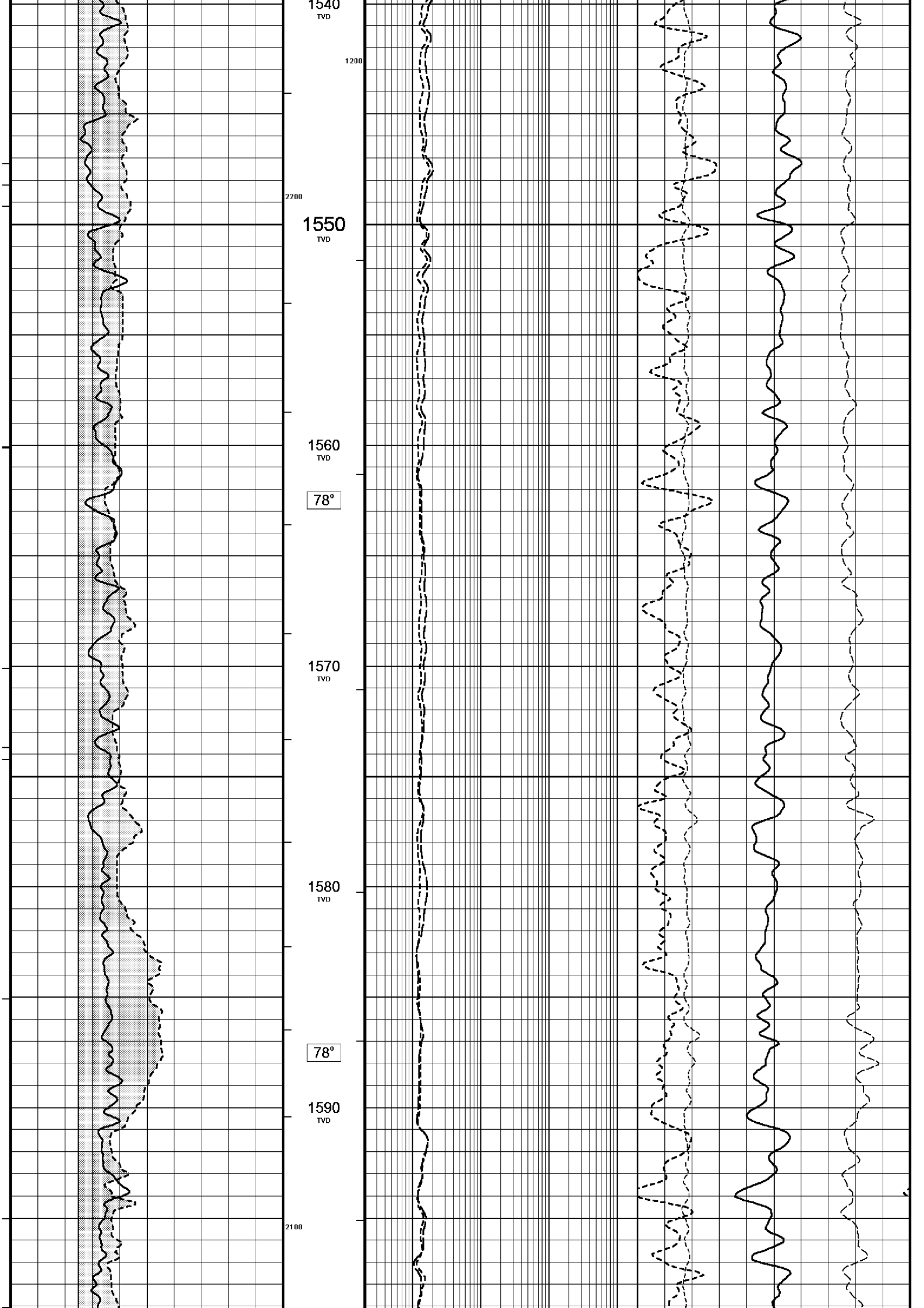


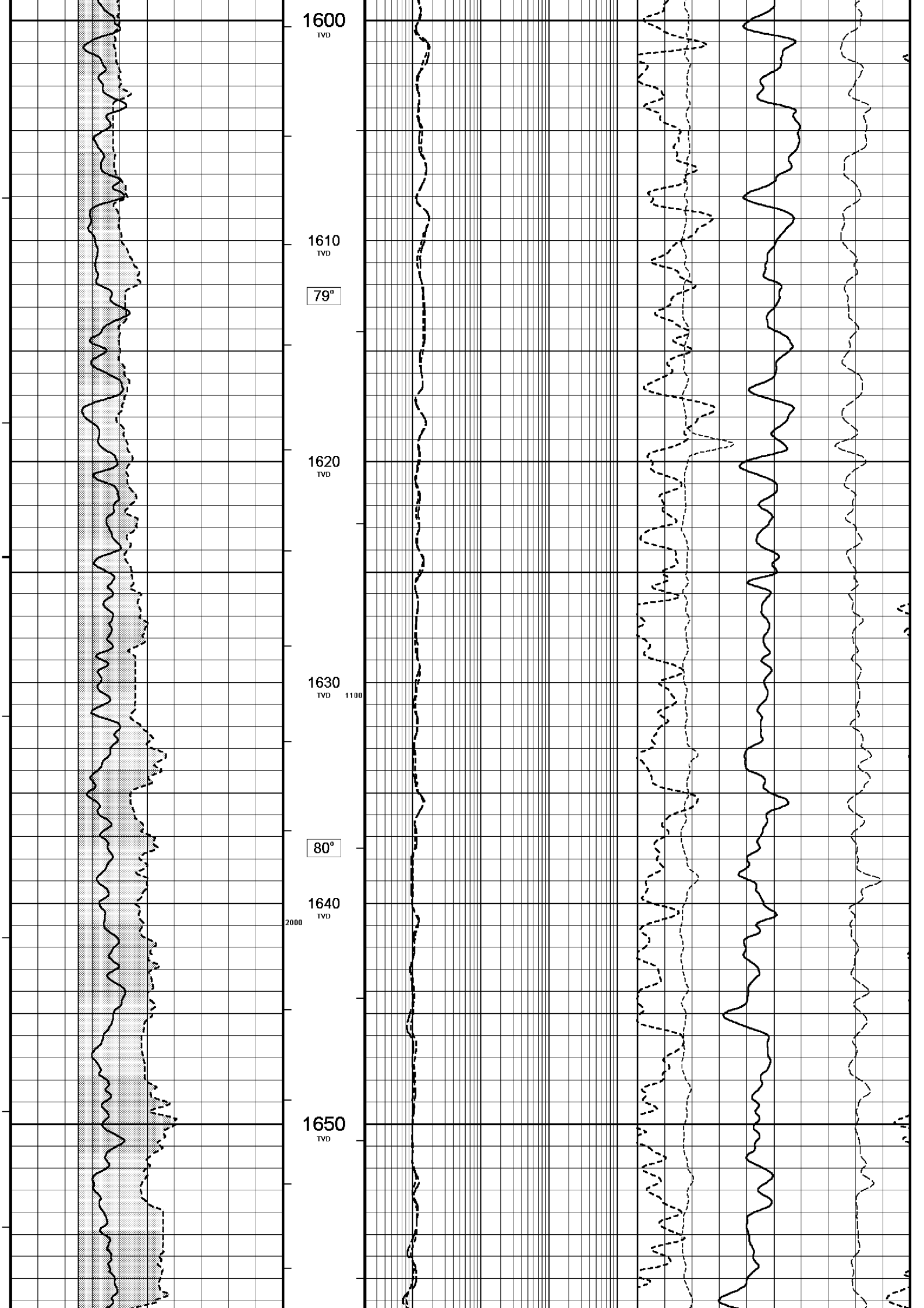


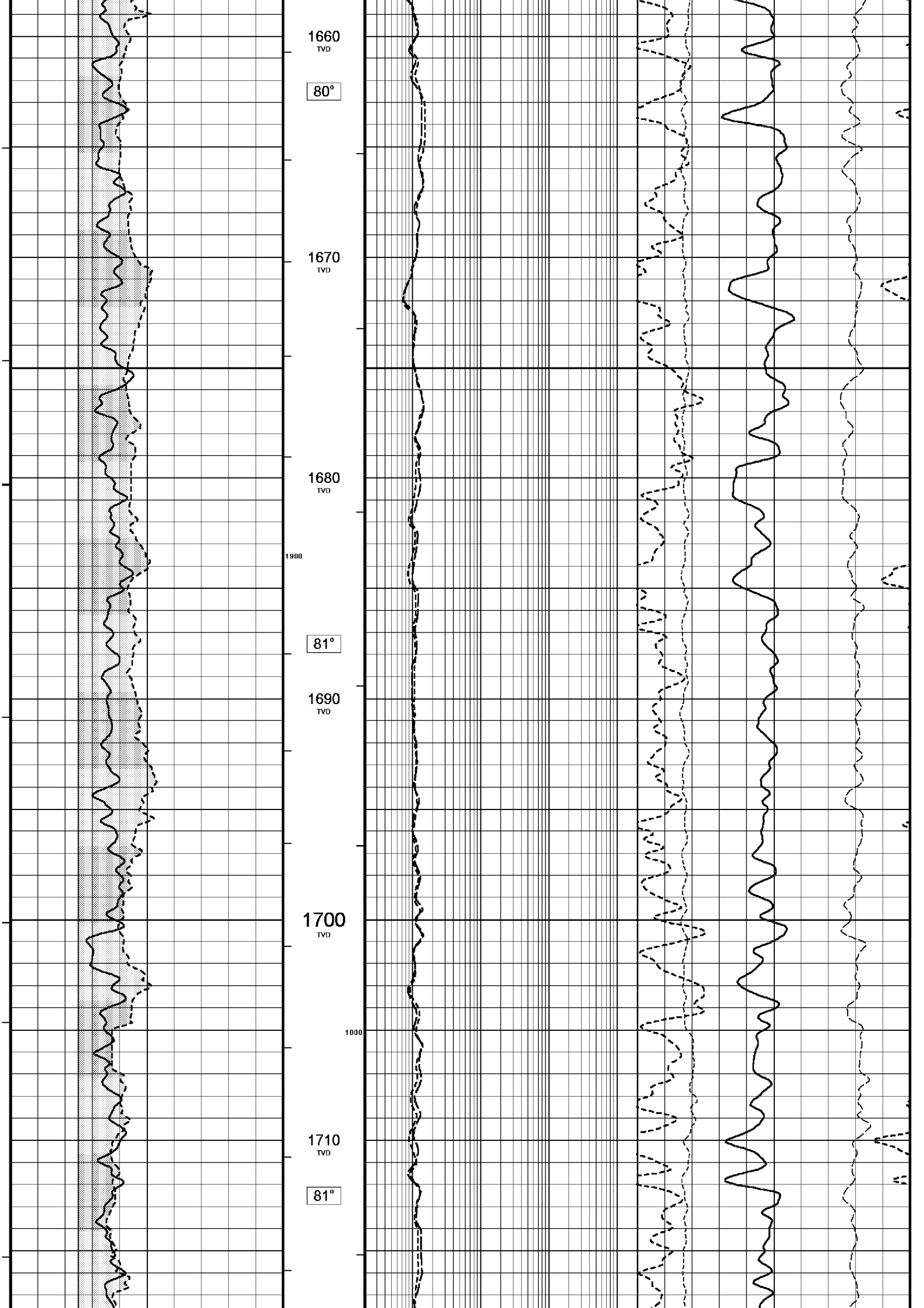


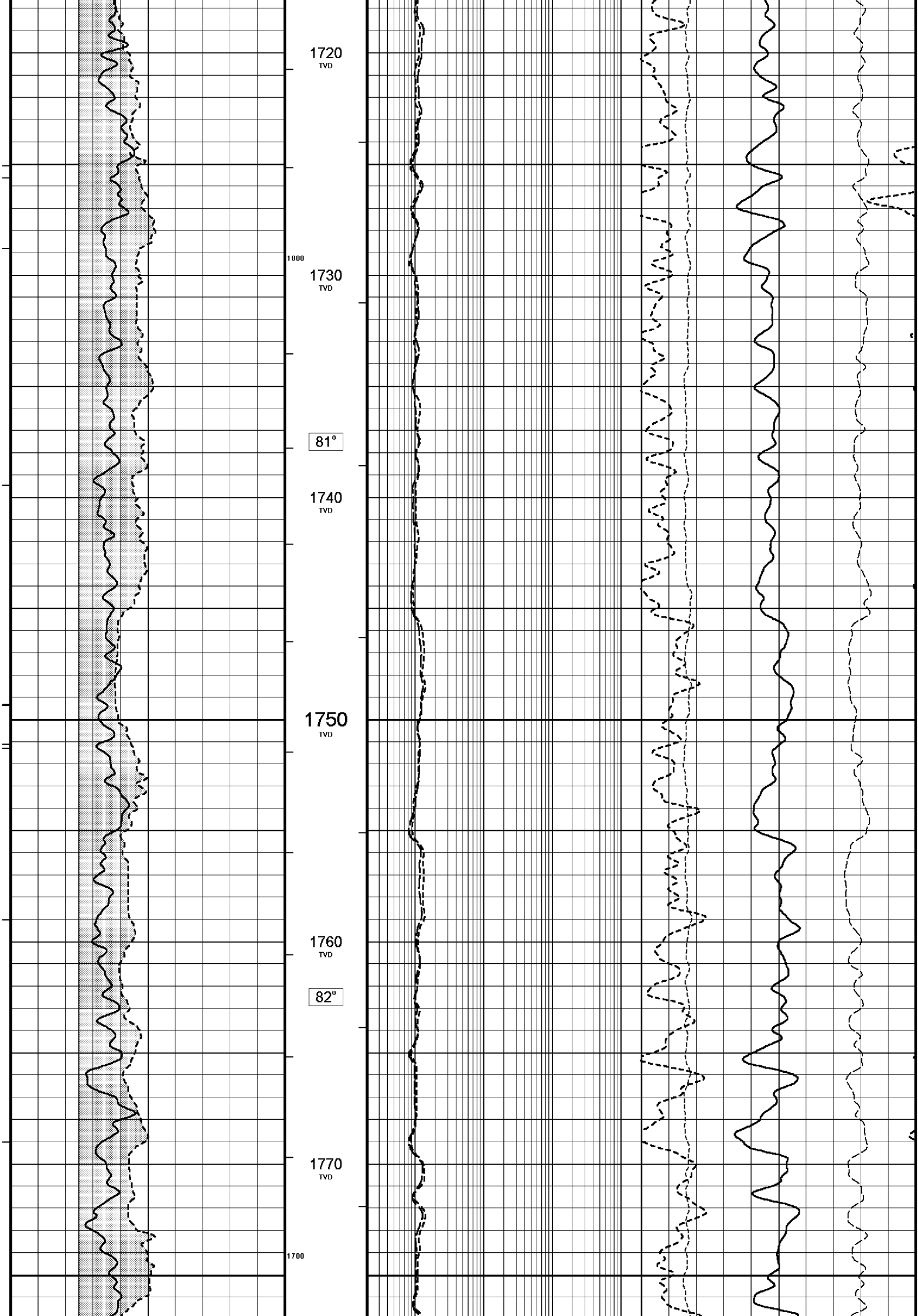


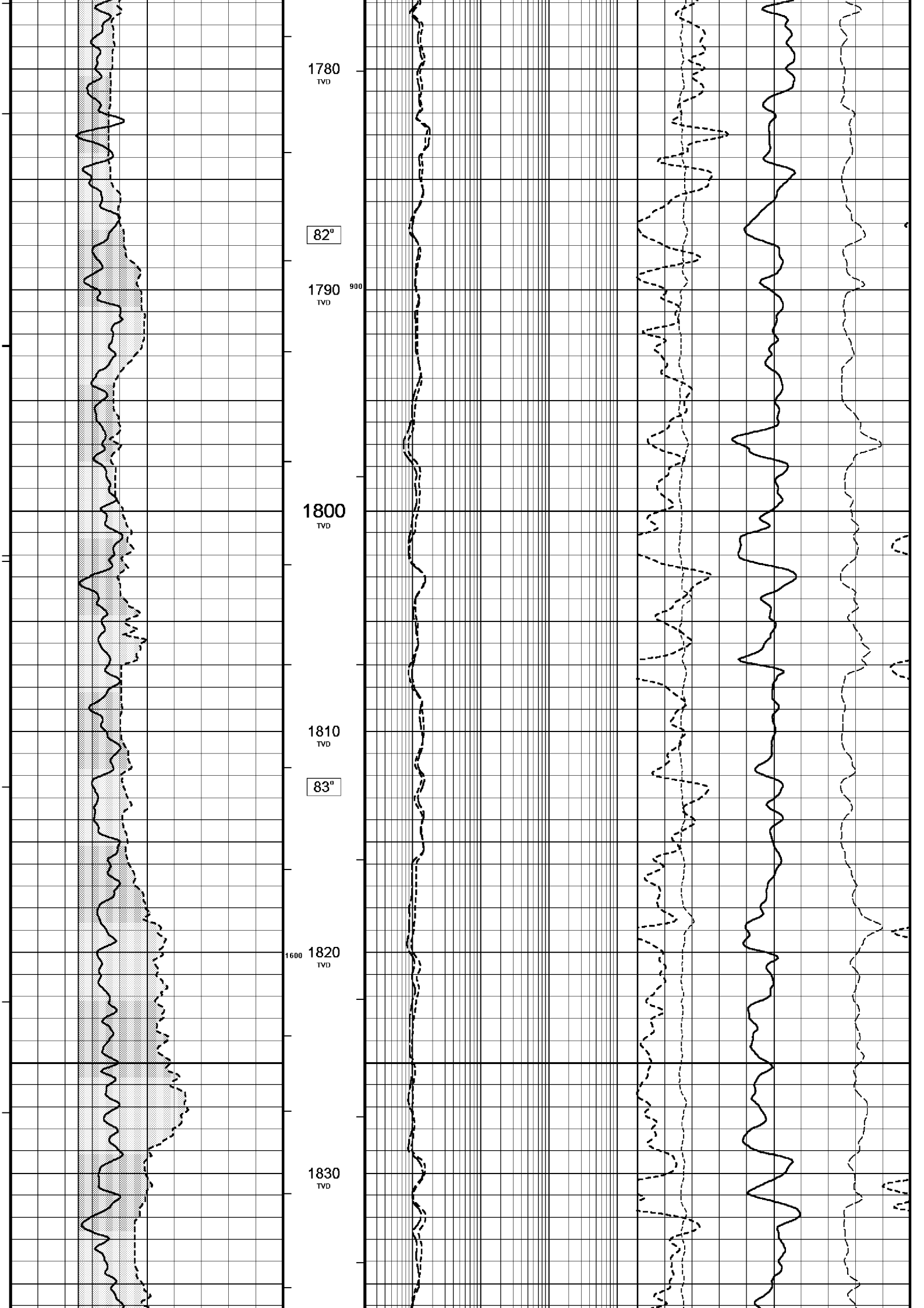


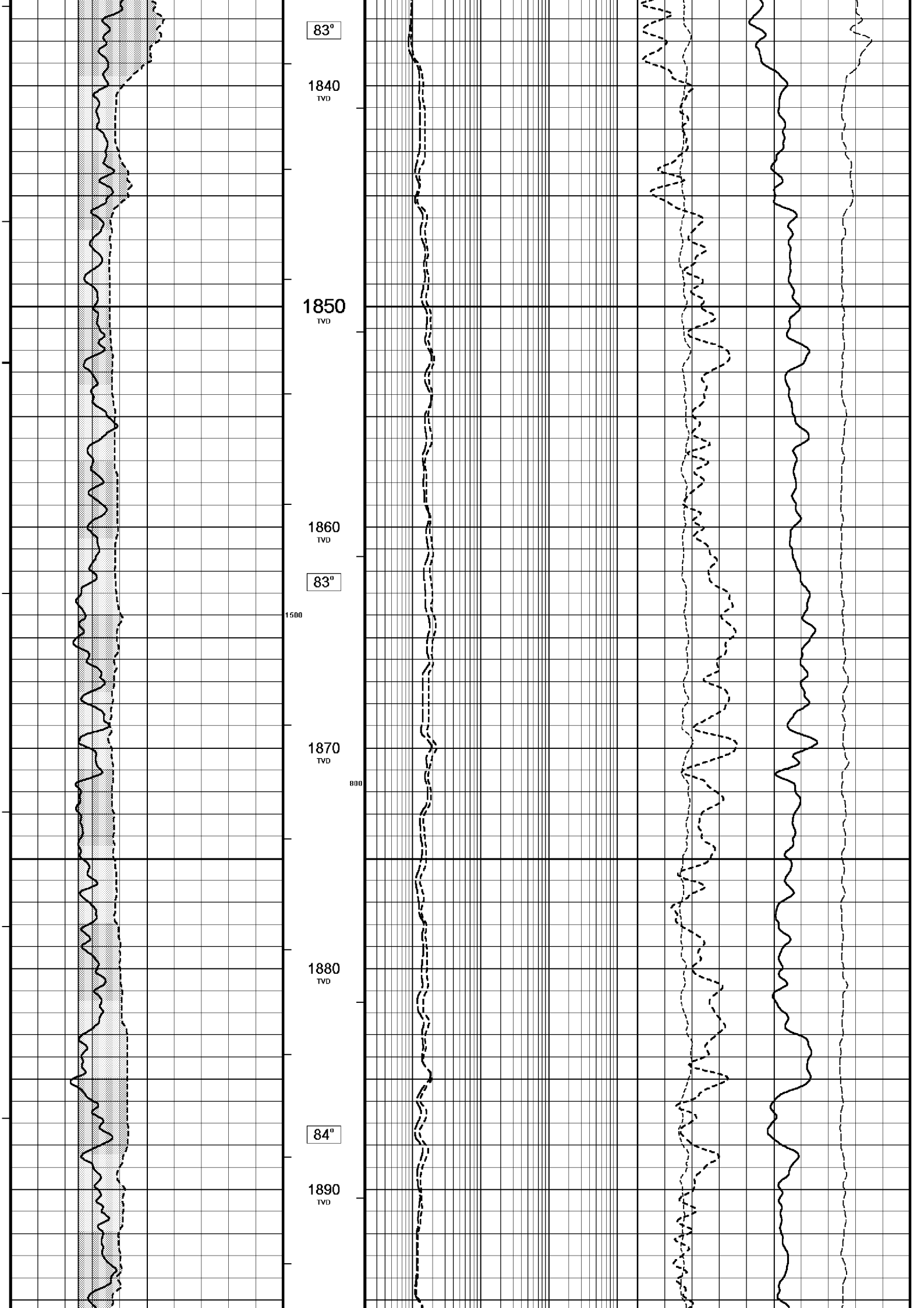


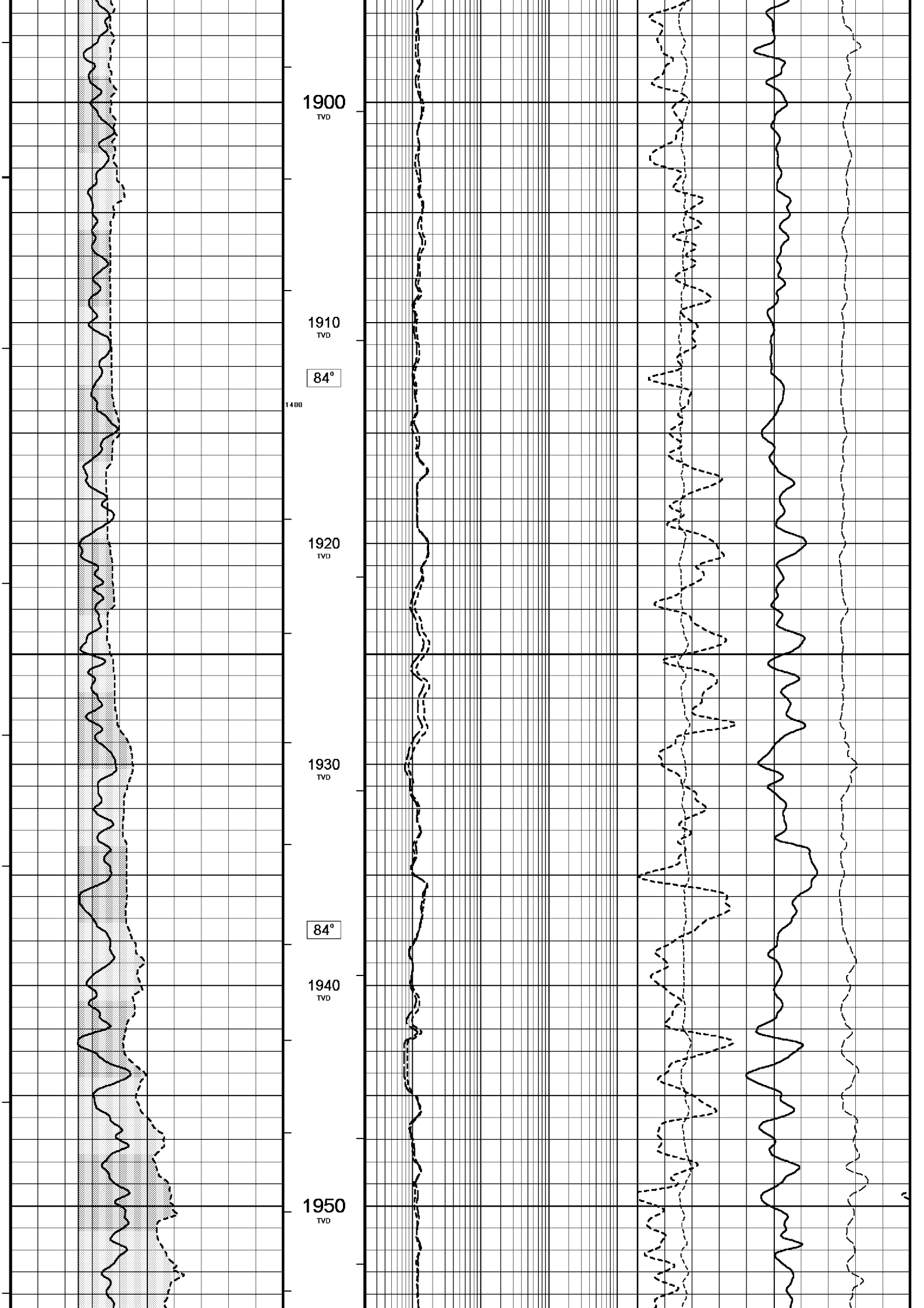


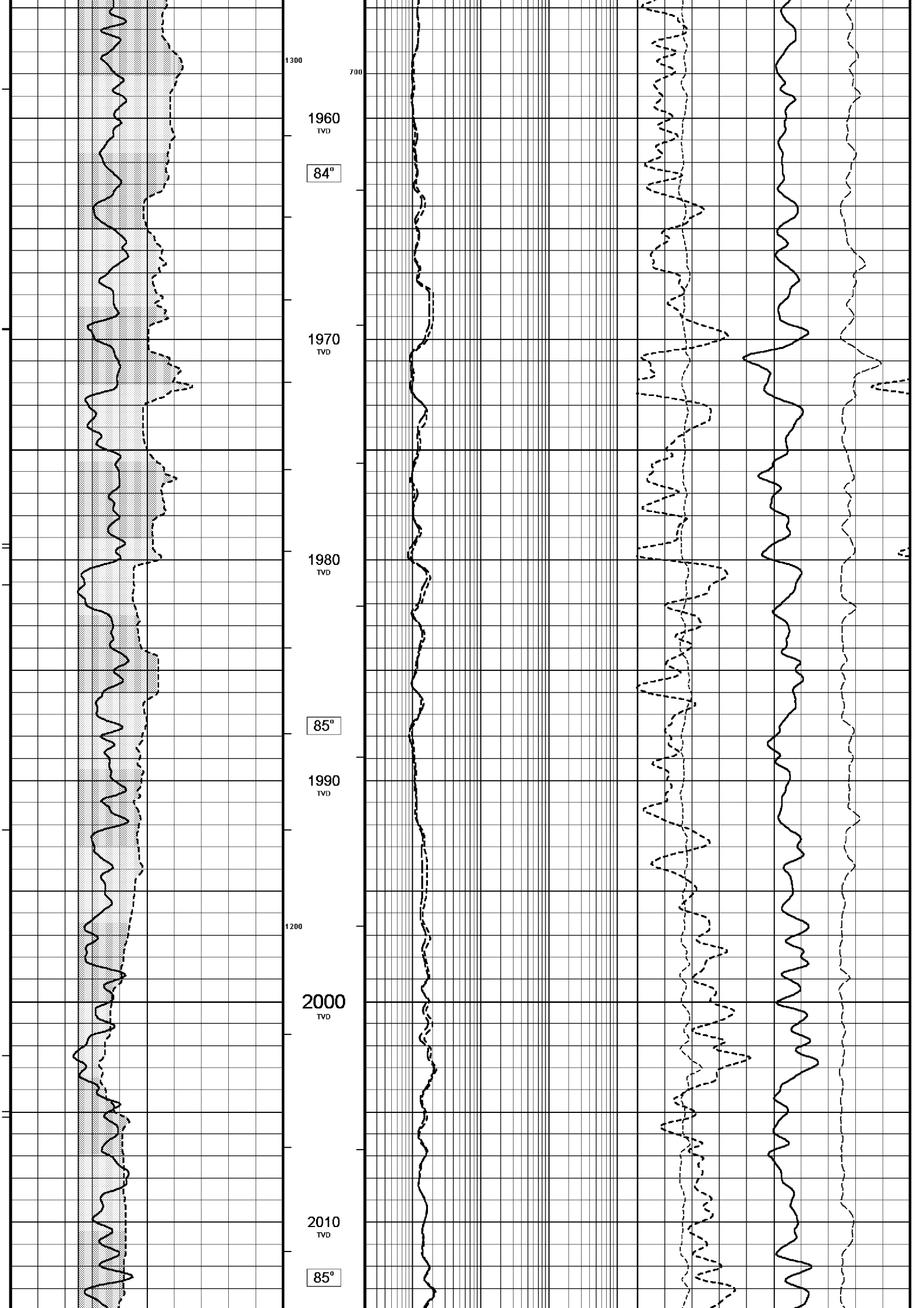


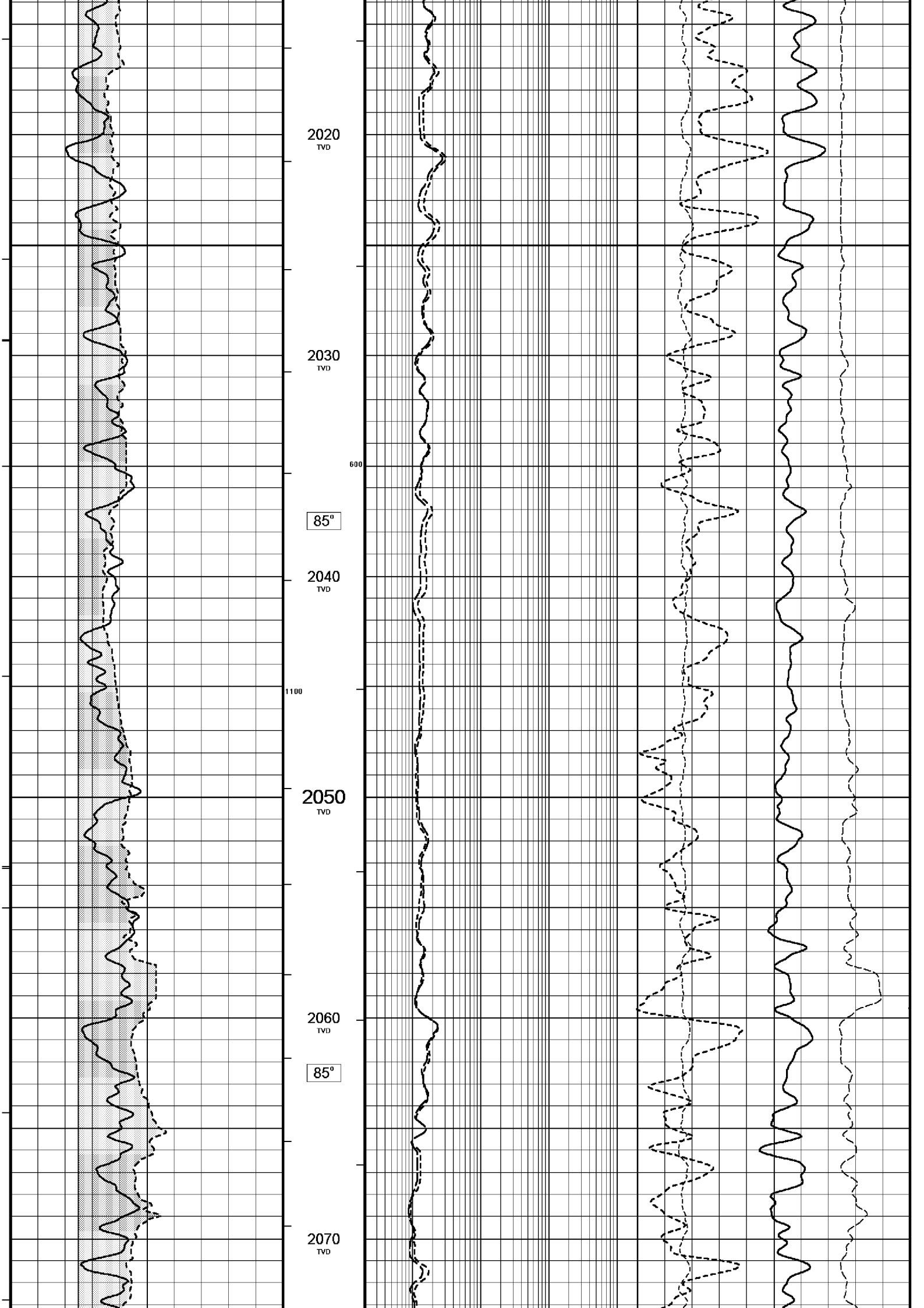


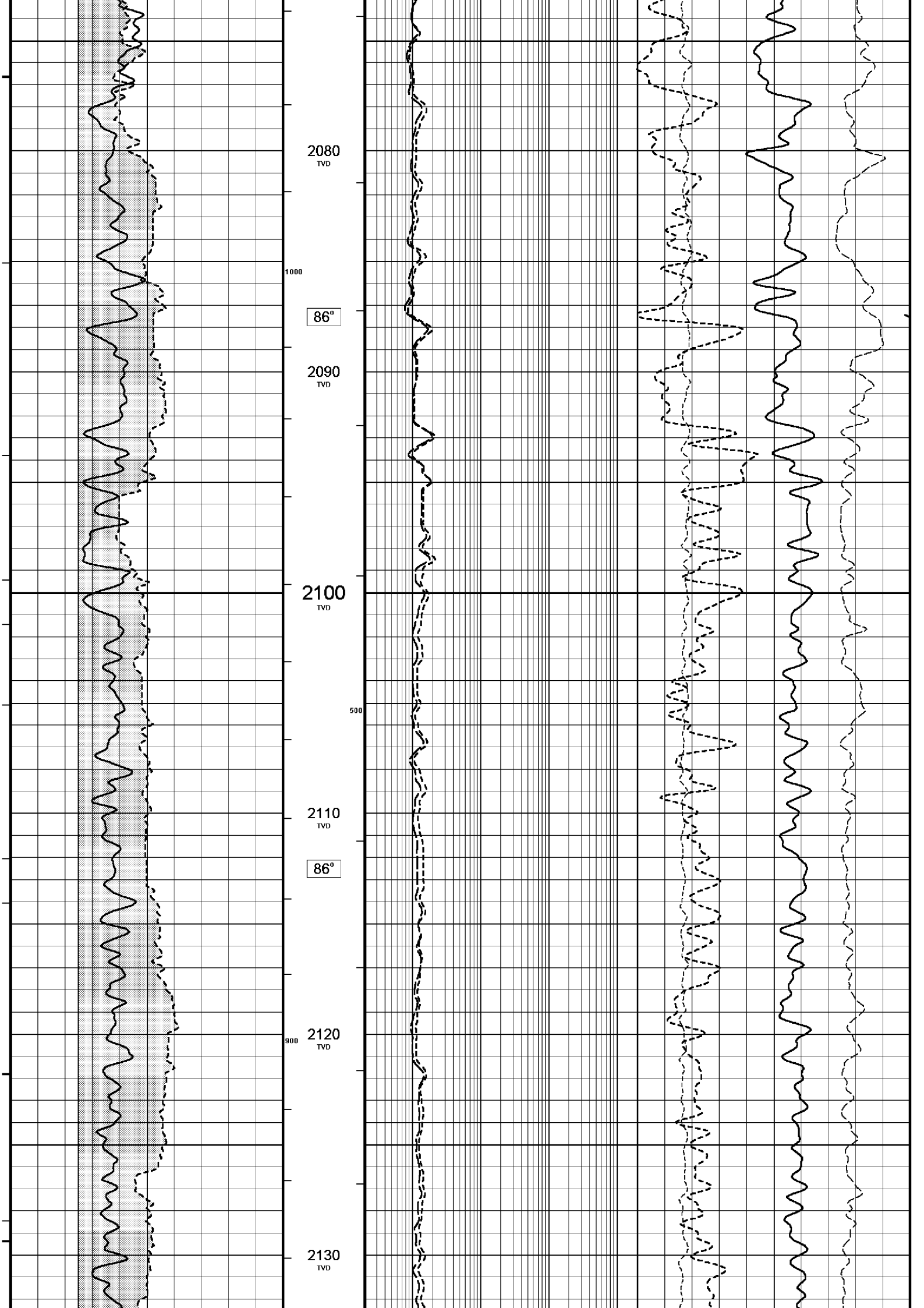


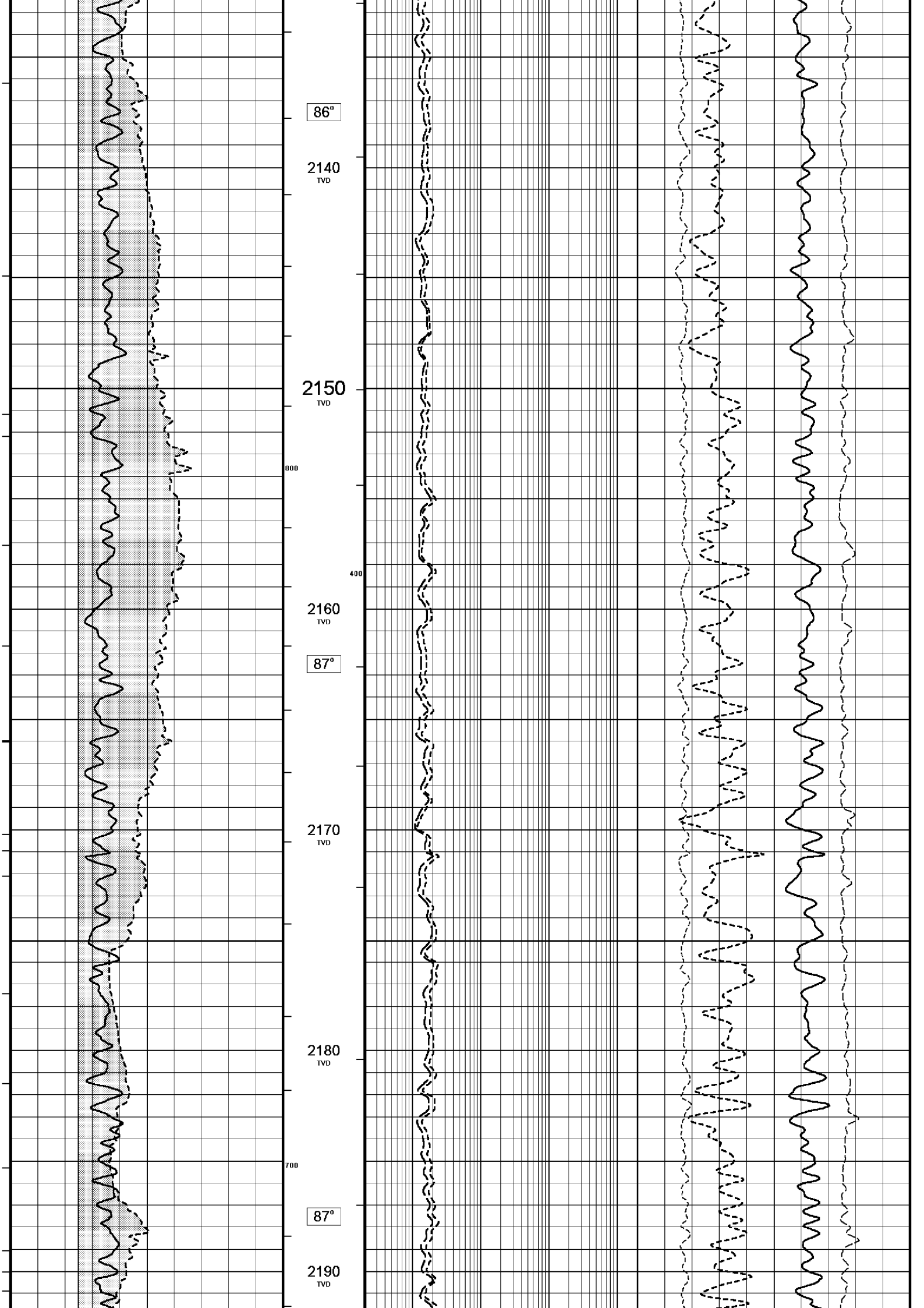


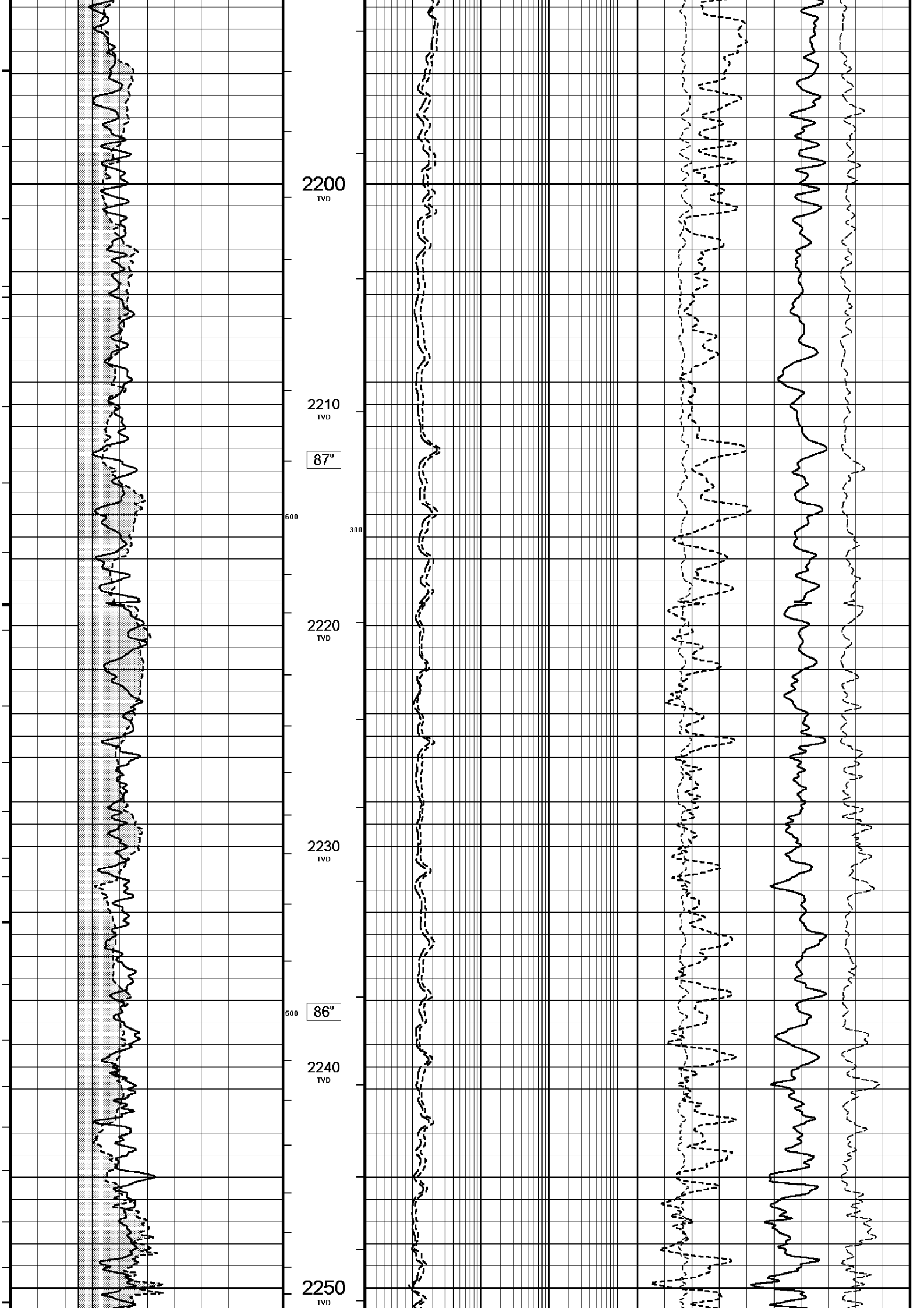


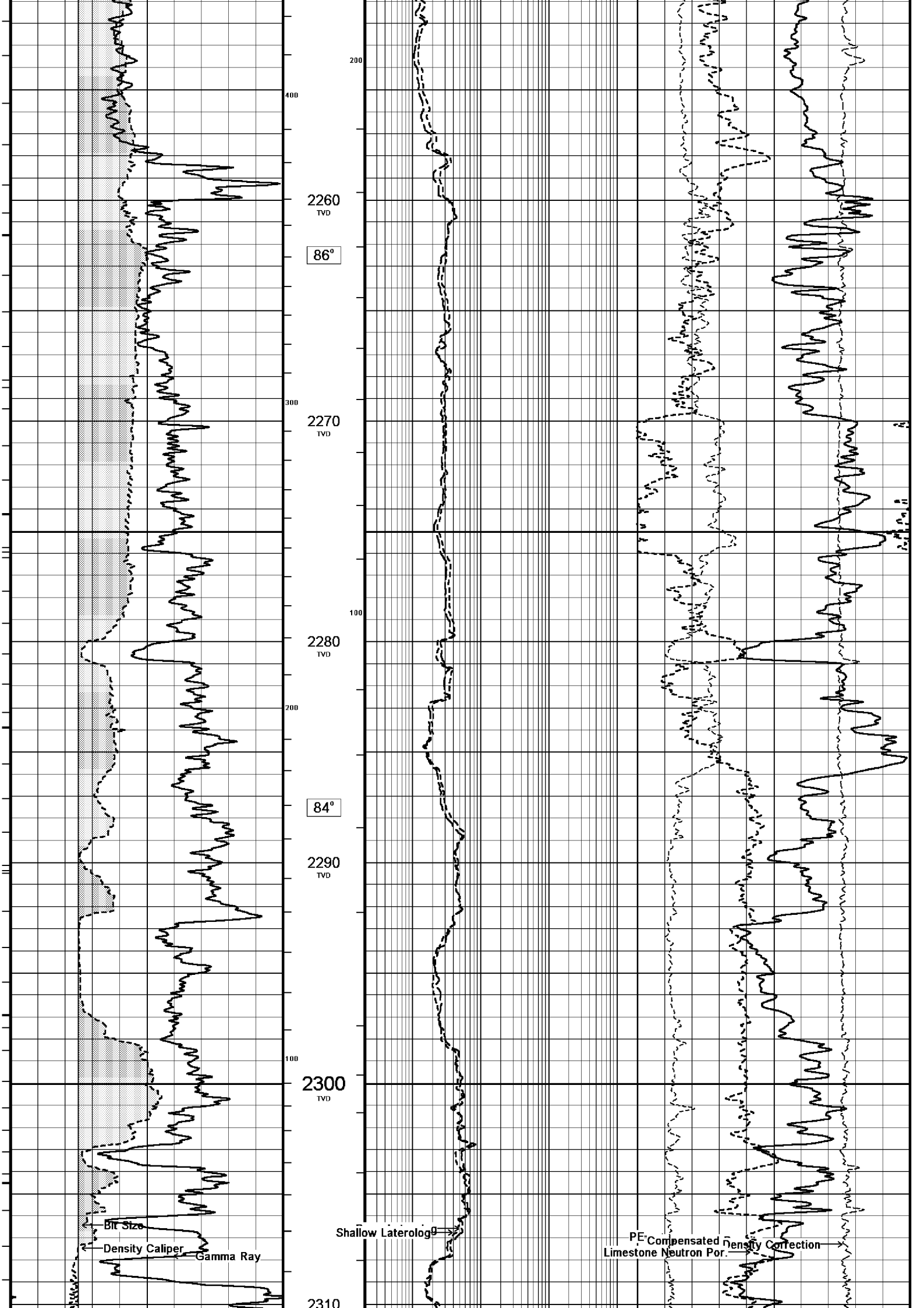


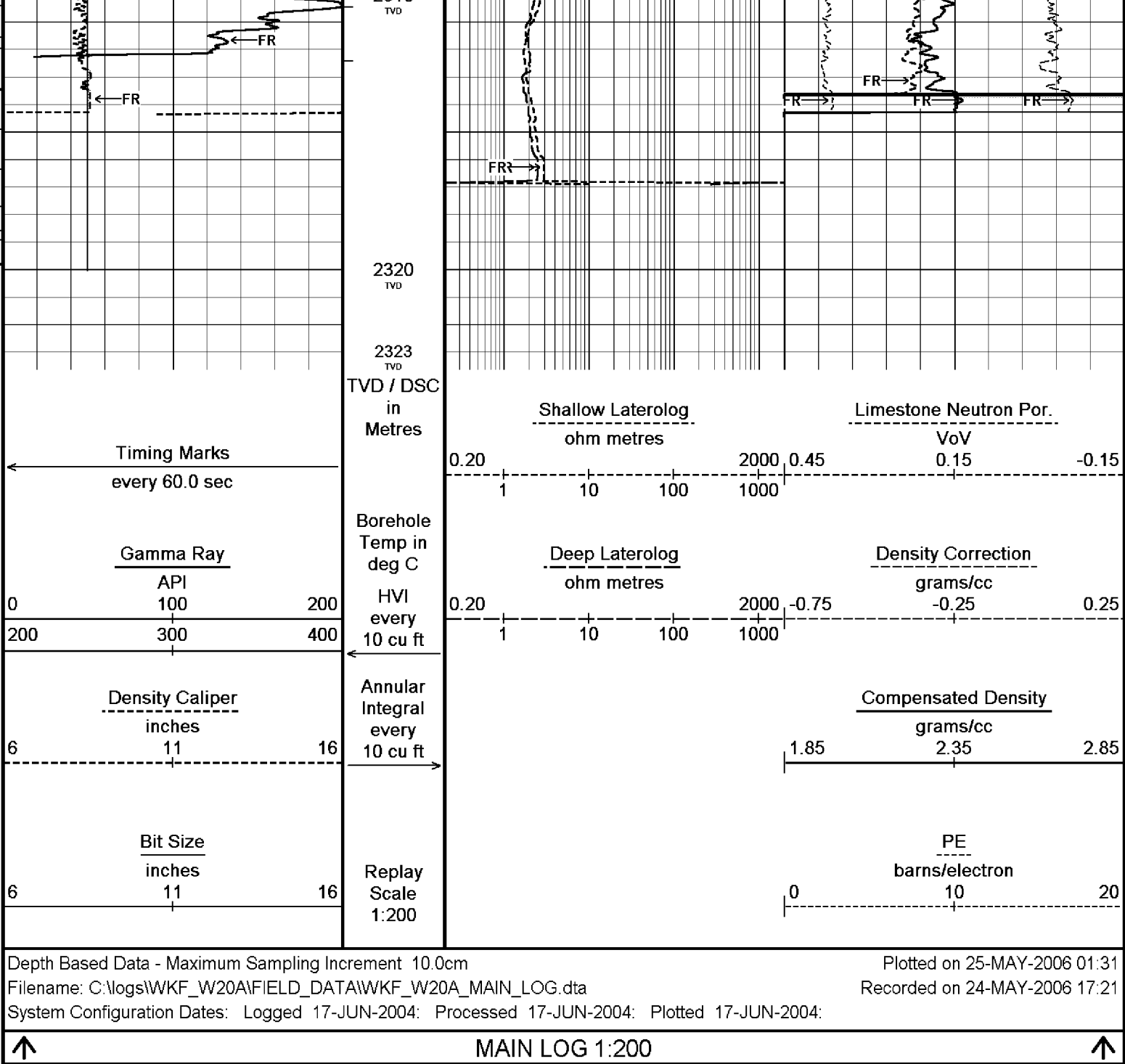












BEFORE SURVEY CALIBRATION		
C:\logs\WKF_W20A\FIELD_DATA\WKF_W20A_TIME_LOG.dta		
General Constants All 000		
General Parameters		
Mud Resistivity	0.108	ohm-metres
Mud Resistivity Temperature	25.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Wet Hole	
Hole/Annular Volume and Differential 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
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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

Neutron Calibration MDN 085

Base Calibration on 11-MAY-2006 10:39

Field Check on 22-MAY-2006 23:58

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
Ratio	3152	97	3714	110
	32.513		33.764	

Field Calibrator at Base

	Calibrated (cps)	
Ratio	1642	2388
	0.687	

Field Check

	Calibrated (cps)	
Ratio	1614	2397
	0.673	

Neutron Constants MDN 085

Neutron Source Id	NSN-E-739	
Neutron Jig Number	NEC52	
Epithermal Neutron	No	
Caliper Source for Processing	Bit Size	
Stand-off	0.00	inches
Mud Density	1.17	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	39.00	kppm
Formation Fluid Salinity Source	None	
Formation Fluid Salinity	N/A	kppm
Barite Mud Correction	Not Applied	

Caliper Calibration MPD 083

Base Calibration on 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

Photo Density Calibration MPD 083

Base Calibration on 11-MAY-2006 12:58

Field Check on 22-MAY-2006 23:46

Density Calibration		Measured		Calibrated (sdu)	
		Near	Far	Near	Far
Reference 1		55324	18685	53111	19310
Reference 2		25920	2474	24951	2530

Field Check at Base

943.6 1092.6

Field Check

937.3 1084.6

PE Calibration		Measured		Calibrated
Base Calibration		WH	Ratio	Ratio
Background	WS 178	808		
Reference 1	17386	55127	0.317	0.320
Reference 2	6869	25774	0.268	0.273

Field Check at Base

177.6 807.7

Field Check

177.1 801.8

Density Constants MPD 083

Density Source Id	NSD-L-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	1.17	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	

Laterolog Calibration MLE 031

Base Calibration on 11-MAY-2006 14:01
Field Check on 23-MAY-2006,00:48

Base Calibration		Measured		Calibrated (ohm-m)	
Channel	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	

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

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: 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

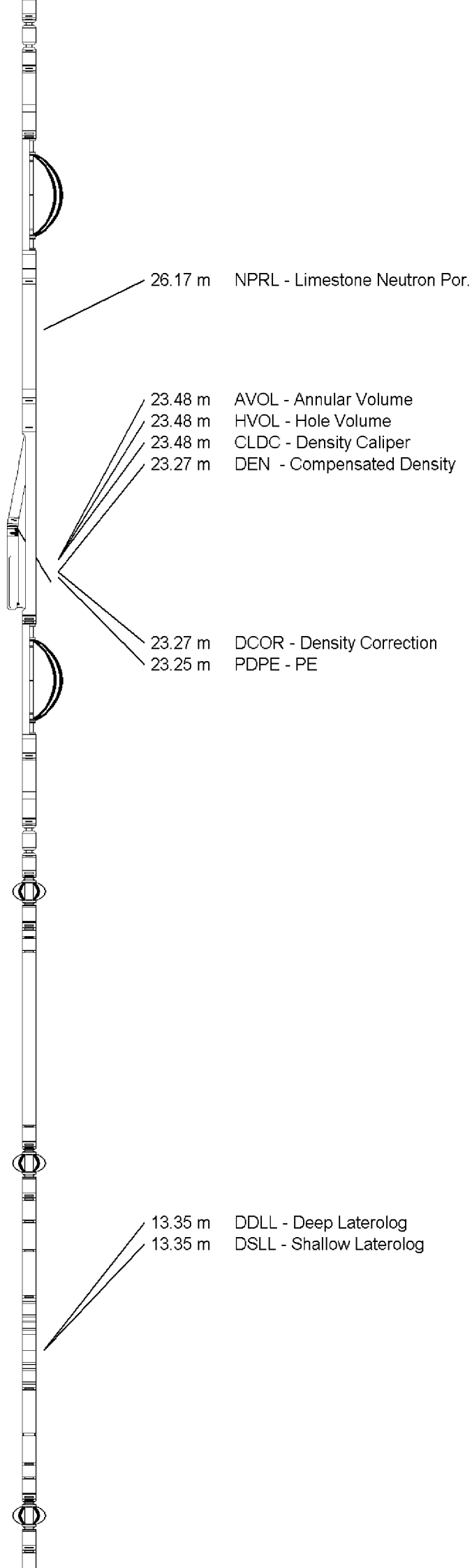
Compact Inline Standoff B
MIS 72 Length: 0.65 m Weight: 15.4 lb

Compact Upper Guard Sub.
MUG 30 Length: 2.74 m Weight: 68.3 lb

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

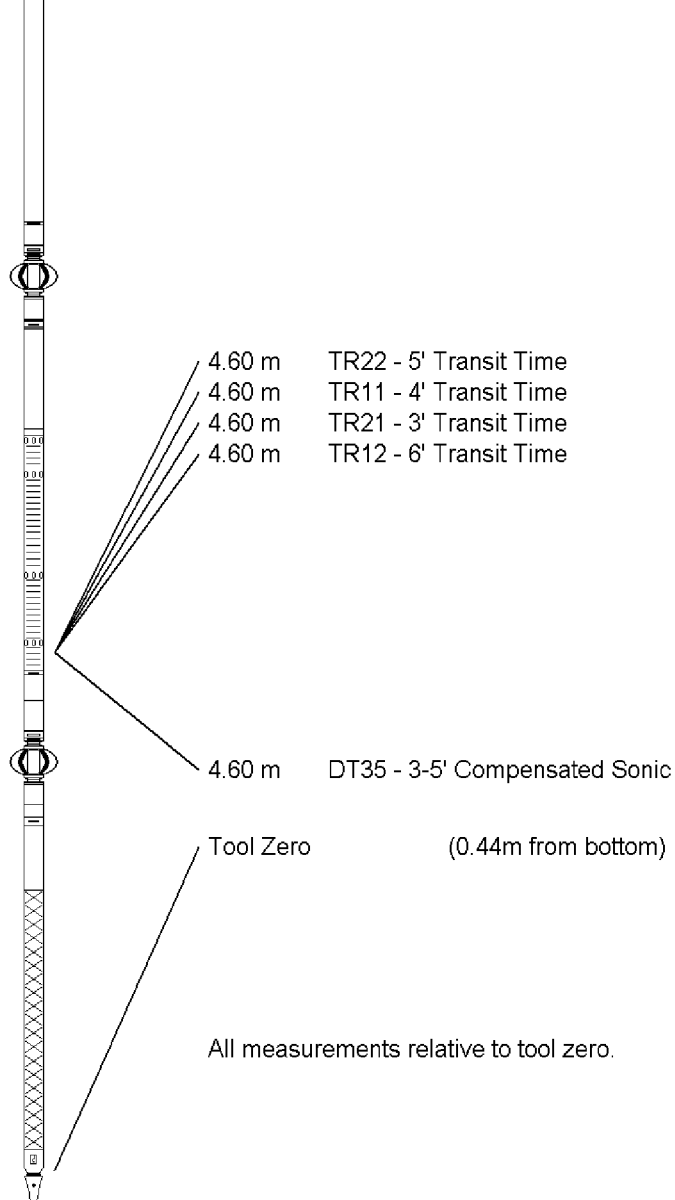
Compact Sonic
MSS 66 Length: 3.82 m Weight: 72.8 lb

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



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



DUAL LATEROLOG - GR
DENSITY - NEUTRON
1:200 TVD