

Reeves

Compact

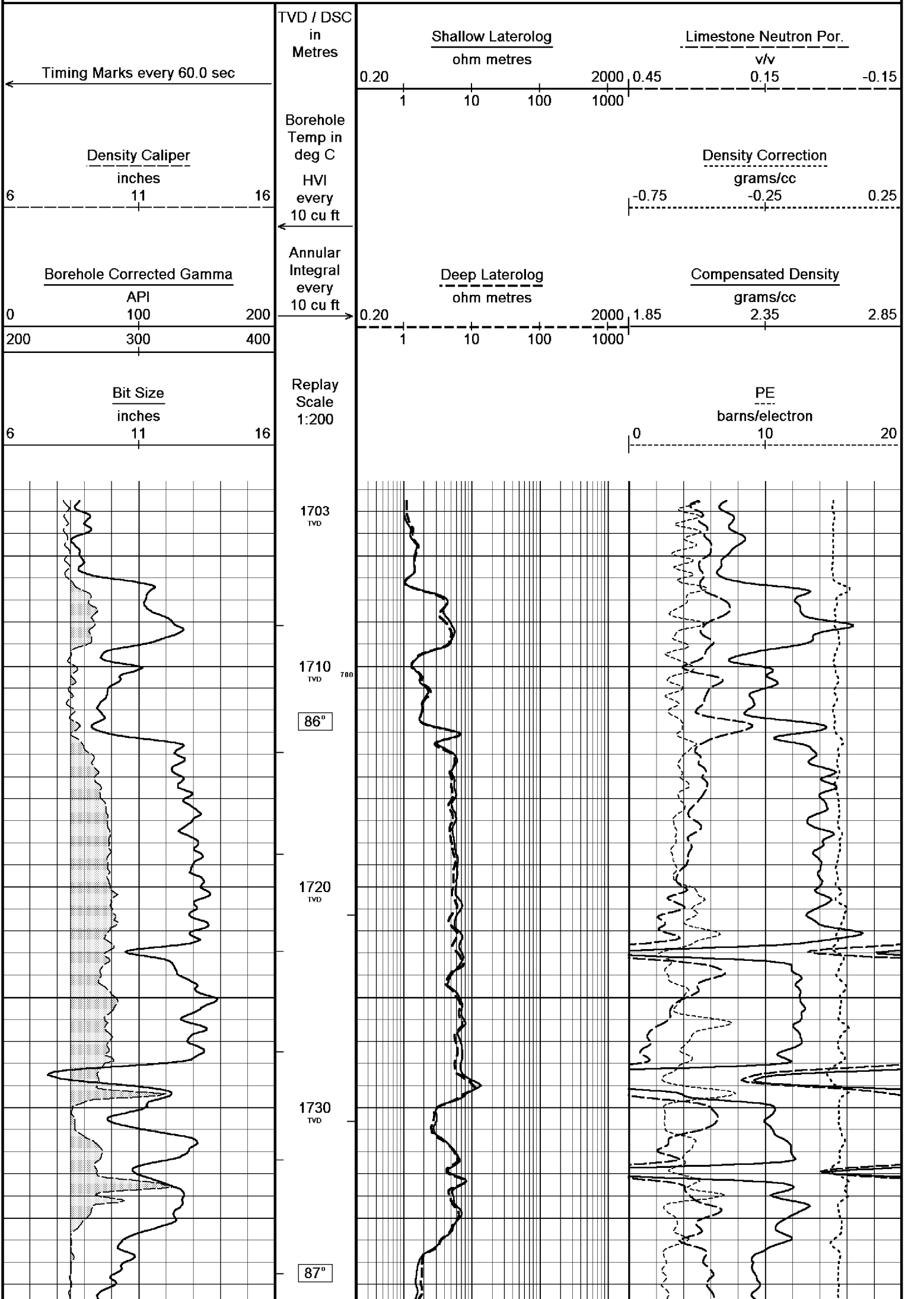
DUAL LATEROLOG - GR
DENSITY - NEUTRON

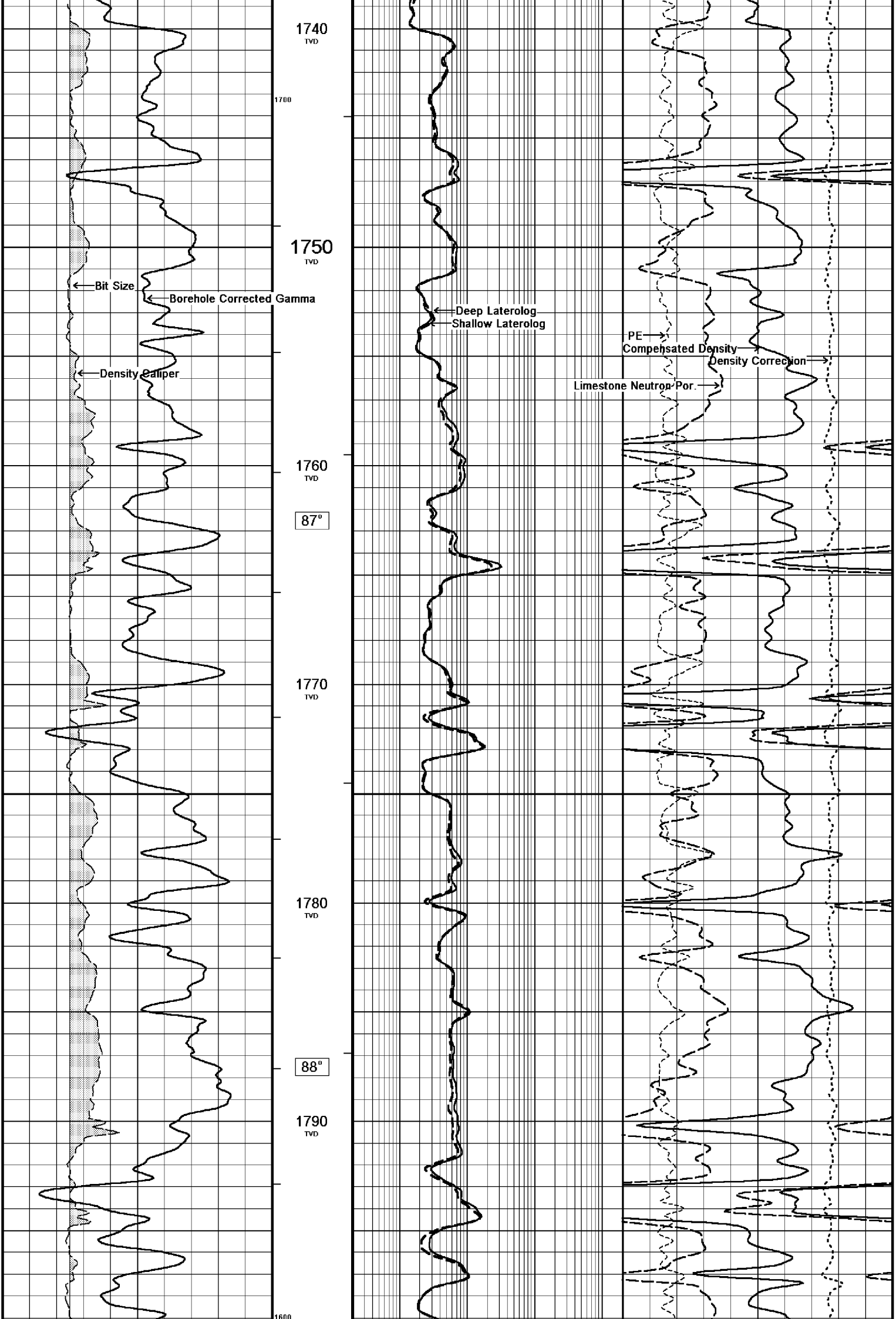
1:200 TVD

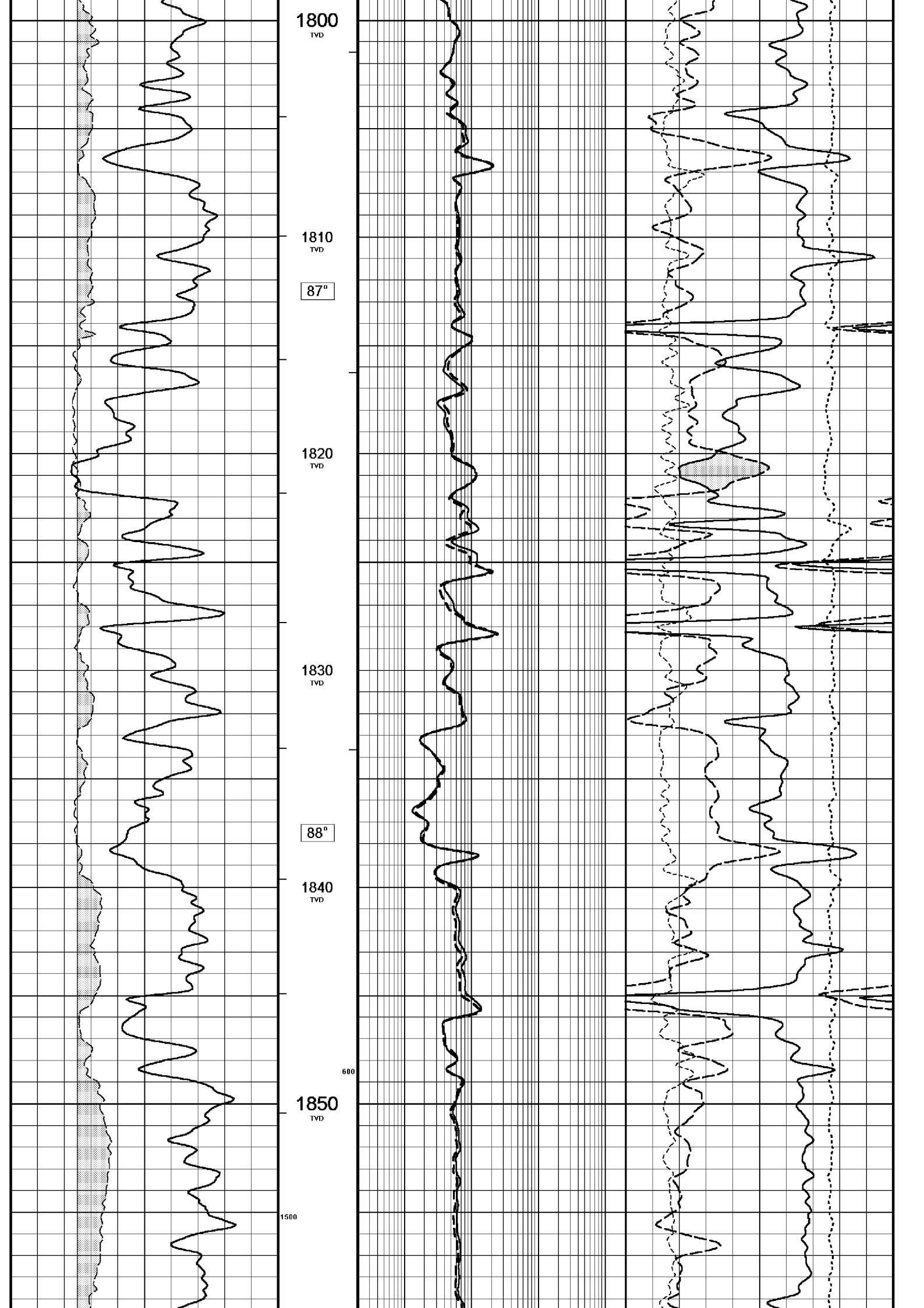
COMPANY				ESSO AUSTRALIA PTY. LTD.			
WELL				MARLIN A24A			
FIELD				TURRUM			
PROVINCE/COUNTY				BASS STRAIT			
COUNTRY/STATE				AUSTRALIA			
LOCATION				38Ddeg13'49.203"S, 148Ddeg13'15.554"E			
				N 5767923.720 m, E 606865.170 m			
				FINAL PRINT			
LSD	SEC	TWP	RGE	Other Services			
				COMPENSATED SONIC			
API Number							
Permit Number VIC/L11							
Permanent Datum MSL				Elevation 0.0		metres	
Log Measured From RT@27.91 m				above Permanent Datum			
Drilling Measured From RT							
Date	5-MAY-2004						
Run Number	ONE						
Depth Driller	2676.90			metres			
Depth Logger	2672.90			metres			
First Reading	2672.50			metres			
Last Reading	1702.40			metres			
Casing Driller	633.50			metres			
Casing Logger							
Bit Size	8.50			inches			
Hole Fluid Type	KCL/GLY/PPH A						
Density / Viscosity	10.15 lb/USg		30.00	CP			
PH / Fluid Loss	8.90		3.00	ml/30Min			
Sample Source	PRESS						
Rm @ Measured Temp	0.137 @ 25.0			ohm-m			
Rmf @ Measured Temp	0.098 @ 25.0			ohm-m			
Rmc @ Measured Temp	0.236 @ 25.0			ohm-m			
Source Rmf / Rmc	FLOW		FLOW				
Rm @ BHT	0.066 @ 75.0			ohm-m			
Time Since Circulation	36 HRS						
Max Recorded Temp	90.60			deg C			
Equipment Name	CWS/CML						
Equipment / Base	1		SALE				
Recorded By	G. MCMANUS, N. PATMAN						
Witnessed By	C. MENHENNIT, L. CULLEN						
Circ. Stopped	1400 4-MAY						

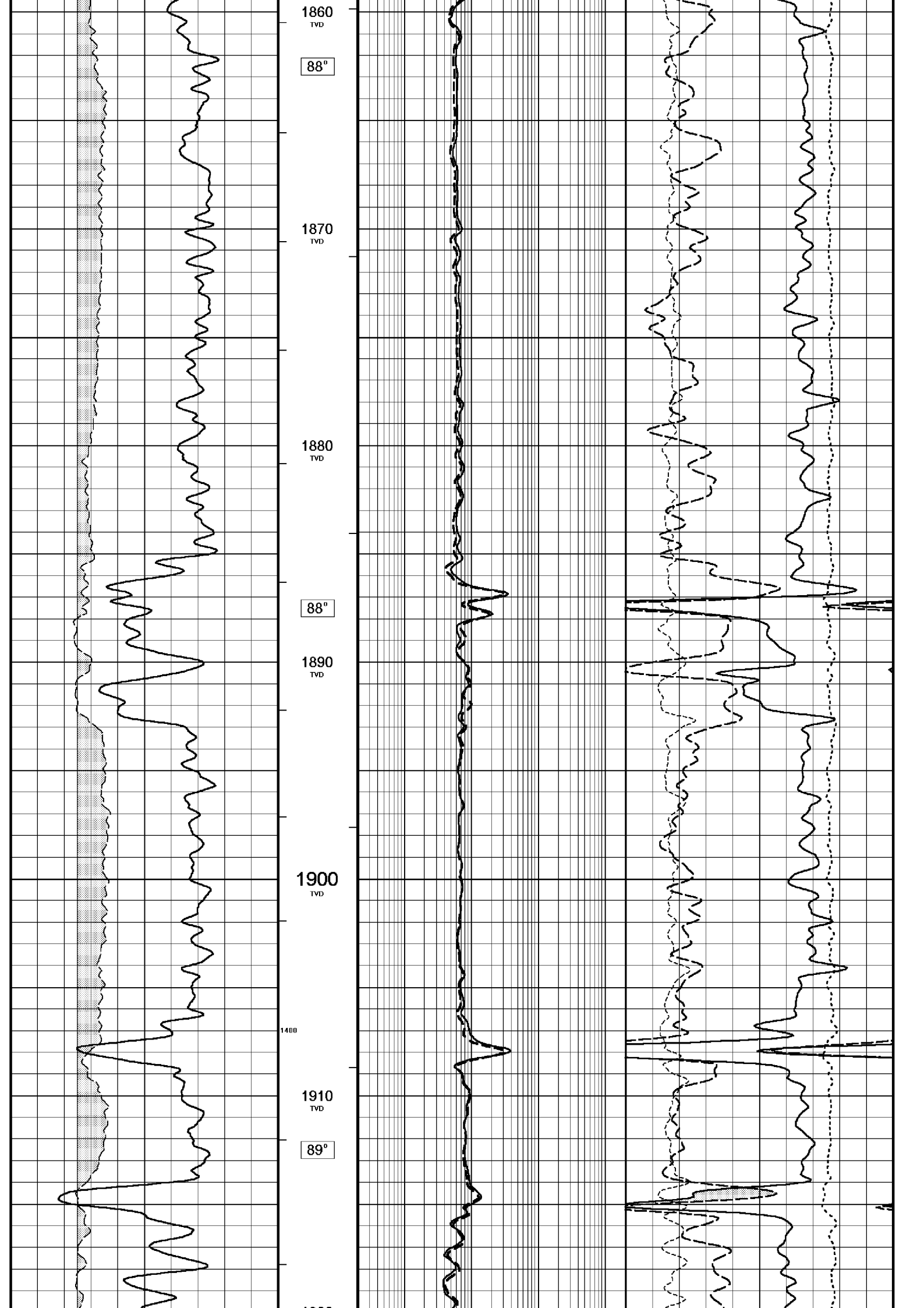
BOREHOLE RECORD				
Bit Size inches		Depth From metres		Depth To metres
8.500		653.000		3275.000
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
SURFACE	13.375	0.000	653.000	0.00
L80	9.625	0.000	653.000	47.00
REMARKS				
Miss Run - No data collected above 2008.5 m MD Due To Battery Failure				
Rig Nabors 453				
5" SHUTTLE - MEMORY LOGGING				
5-MAY-04				
Crew: G McManus, N Patman, M Susa, B Goodwin				
Logs depth corrected -1.1m to correlate with Anadrill gamma log.				
AVERAGE INCLINATION: 38° FROM WINDOW TO TD				
MAXIMUM INCLINATION: 42.38° @ 3162.70 mMD				
MAXIMUM DOGLEG SERVERITY: 5.53°/30m @ 780.54				
MAXIMUM TEMPERATURE: 90.6°C @ 2654.30 mMD				

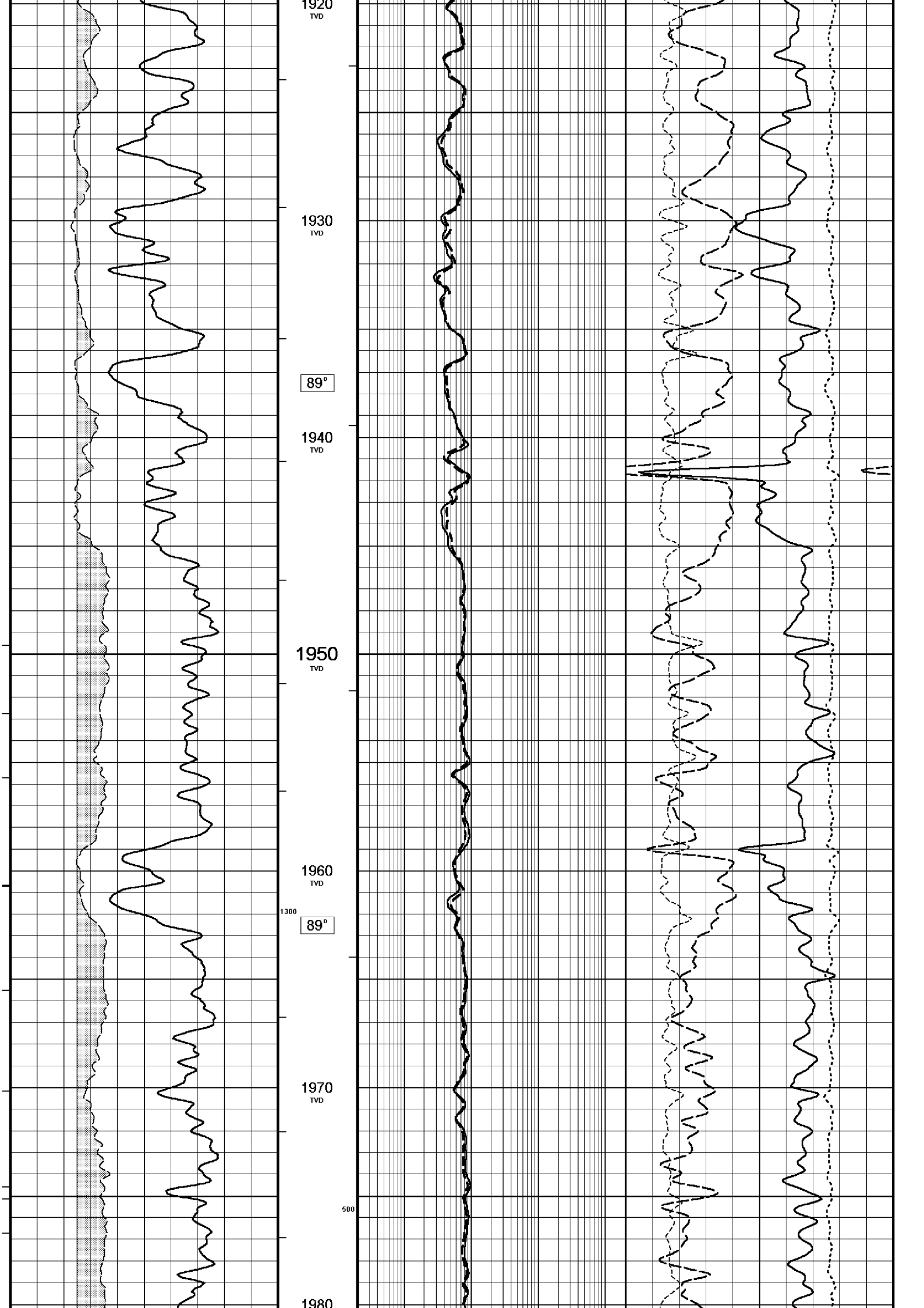
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

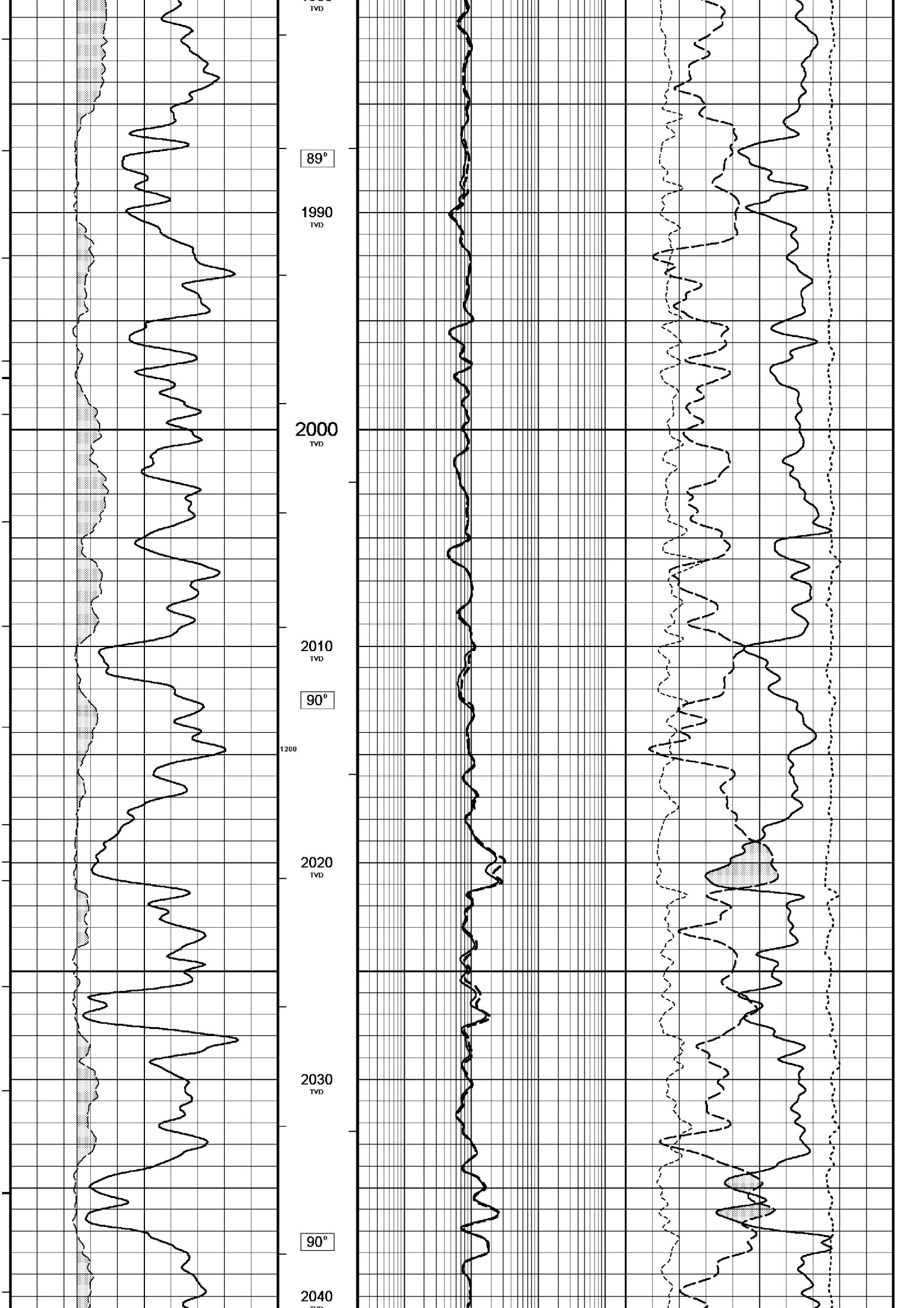


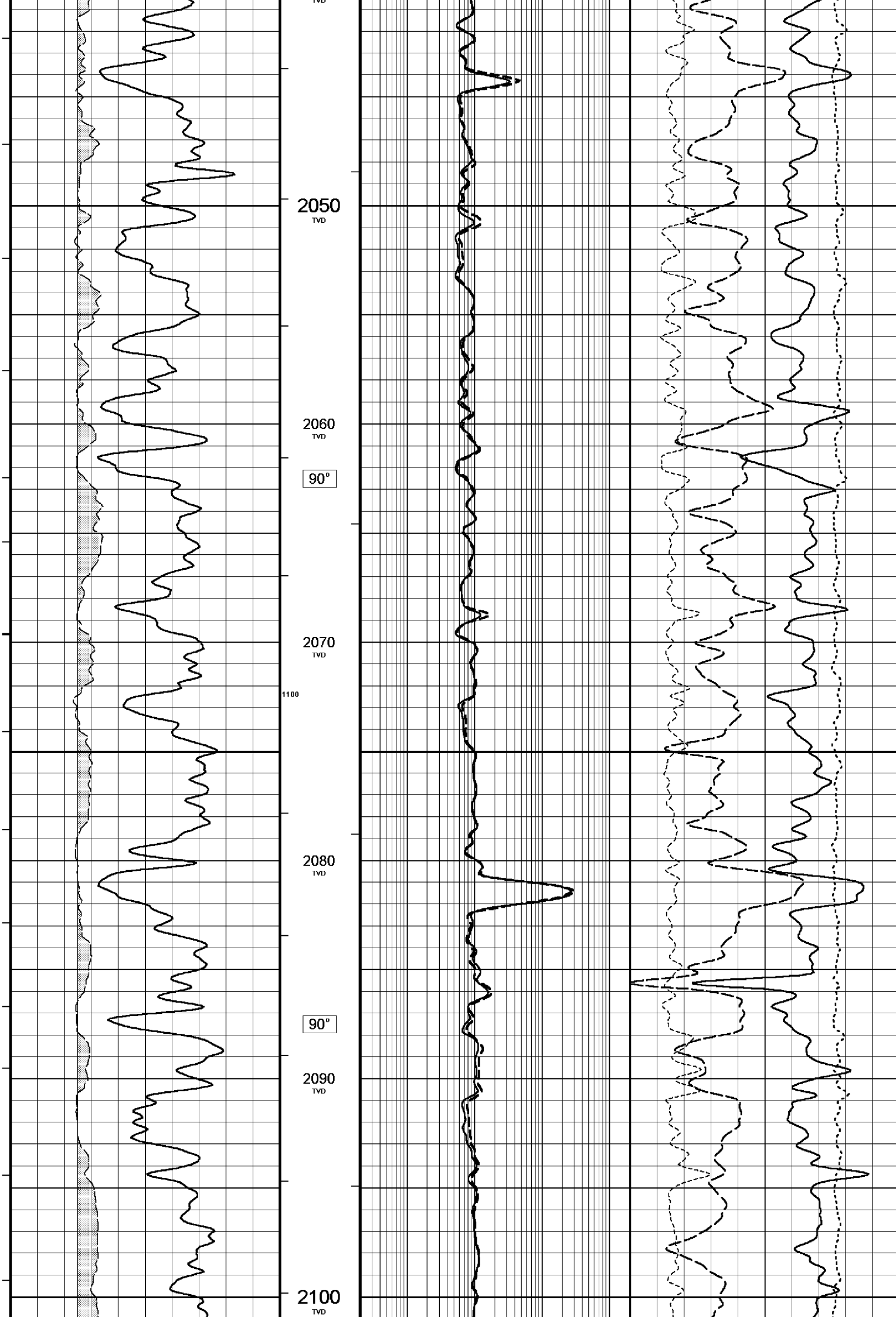


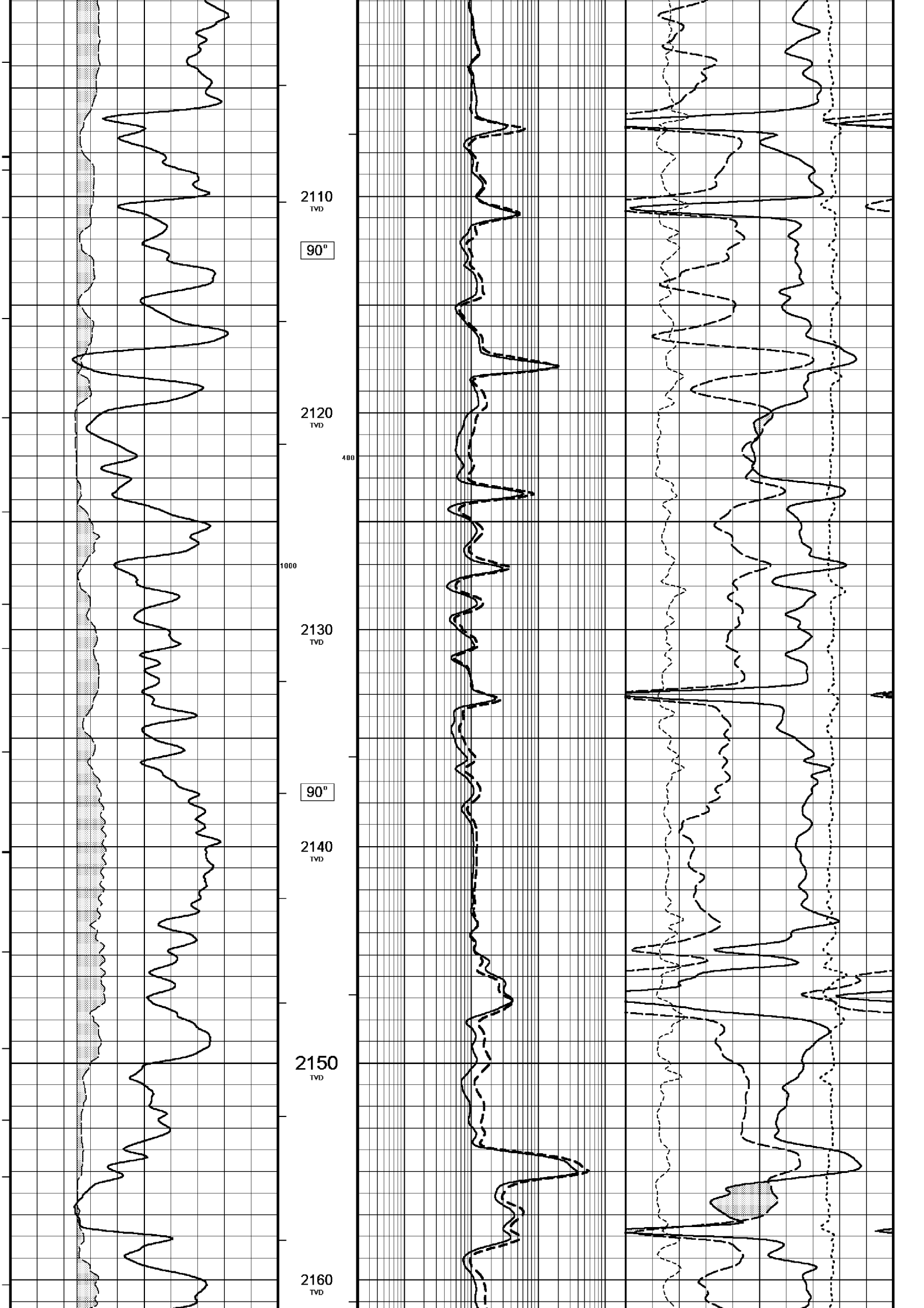


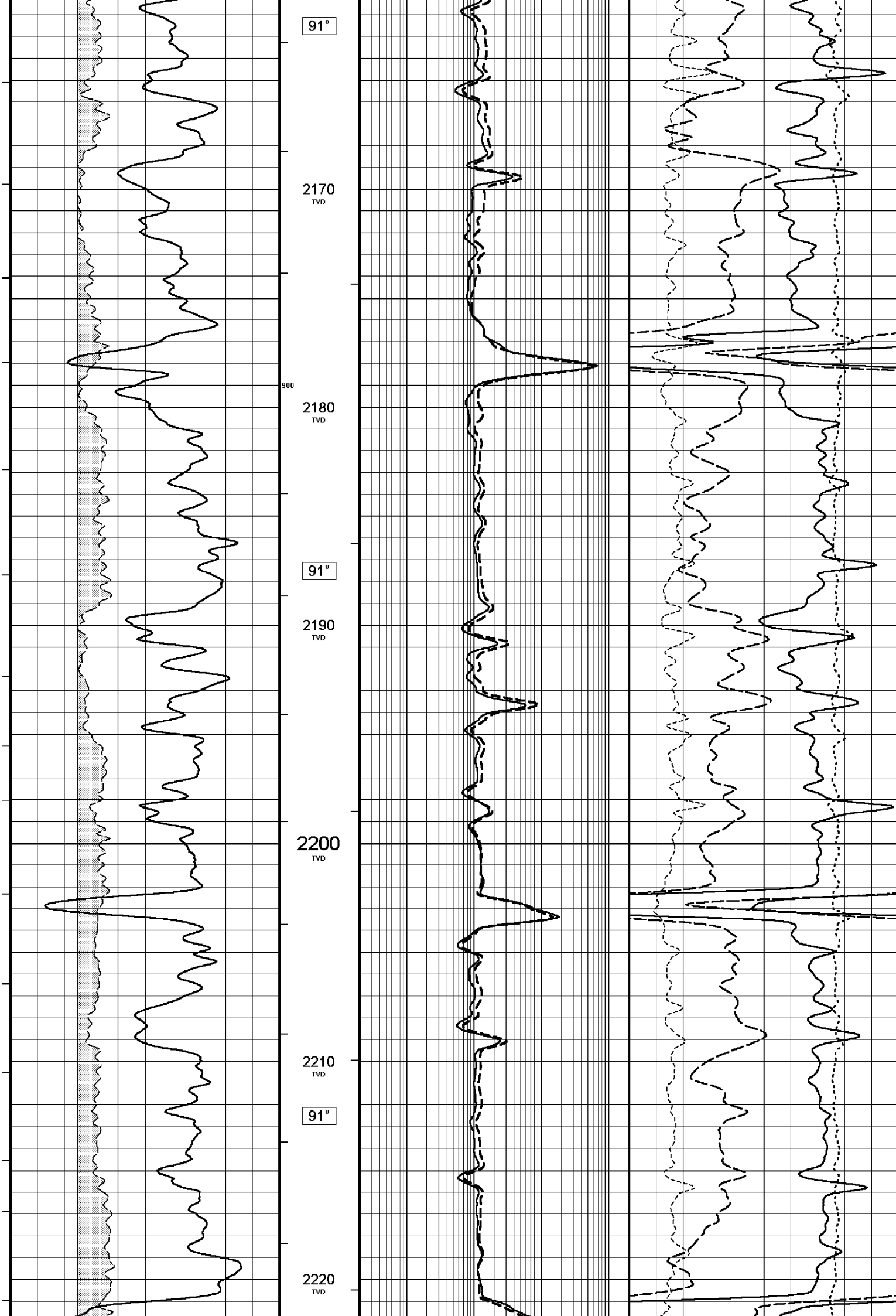


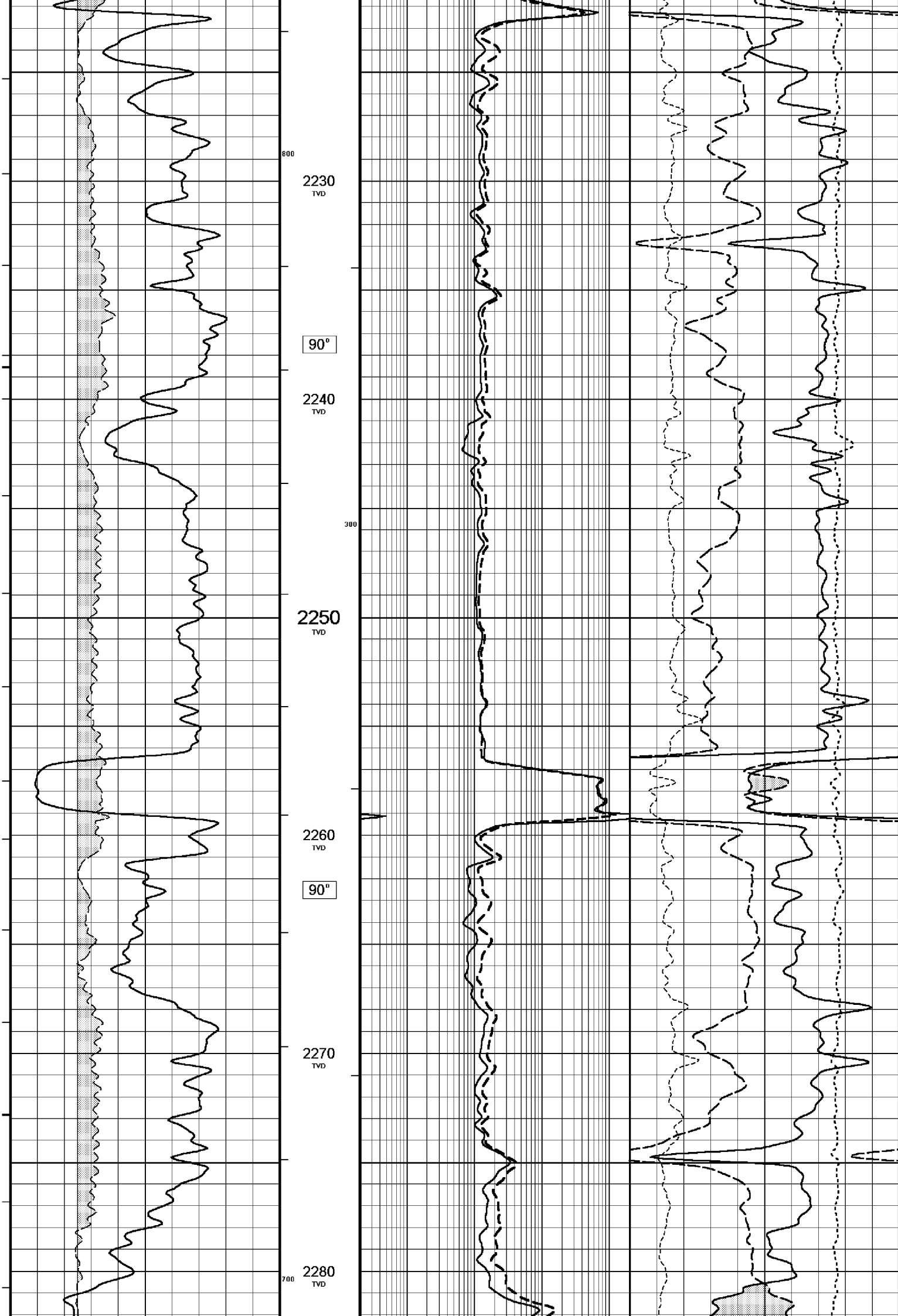


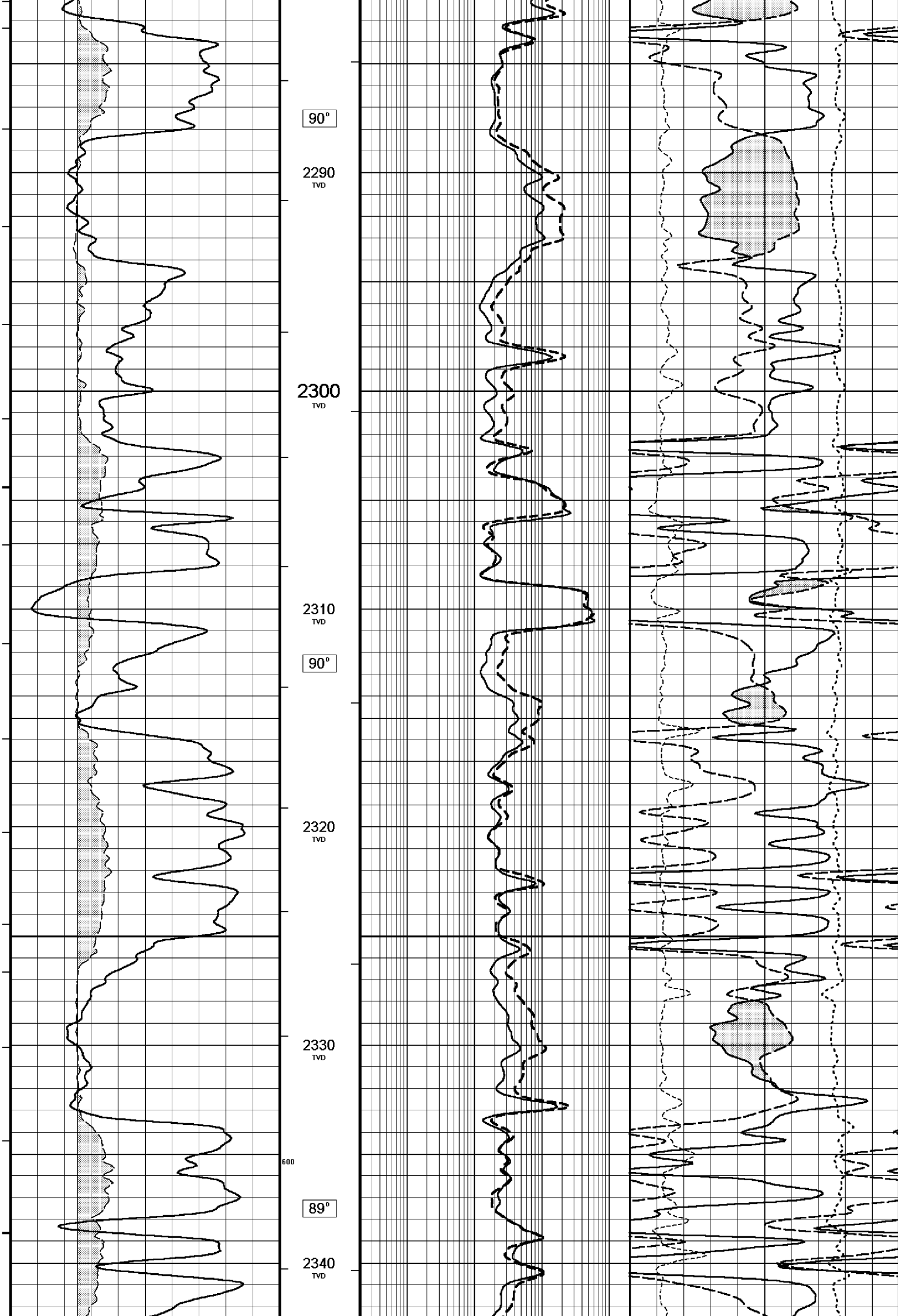












2350
TVD

2360
TVD

89°

2370
TVD

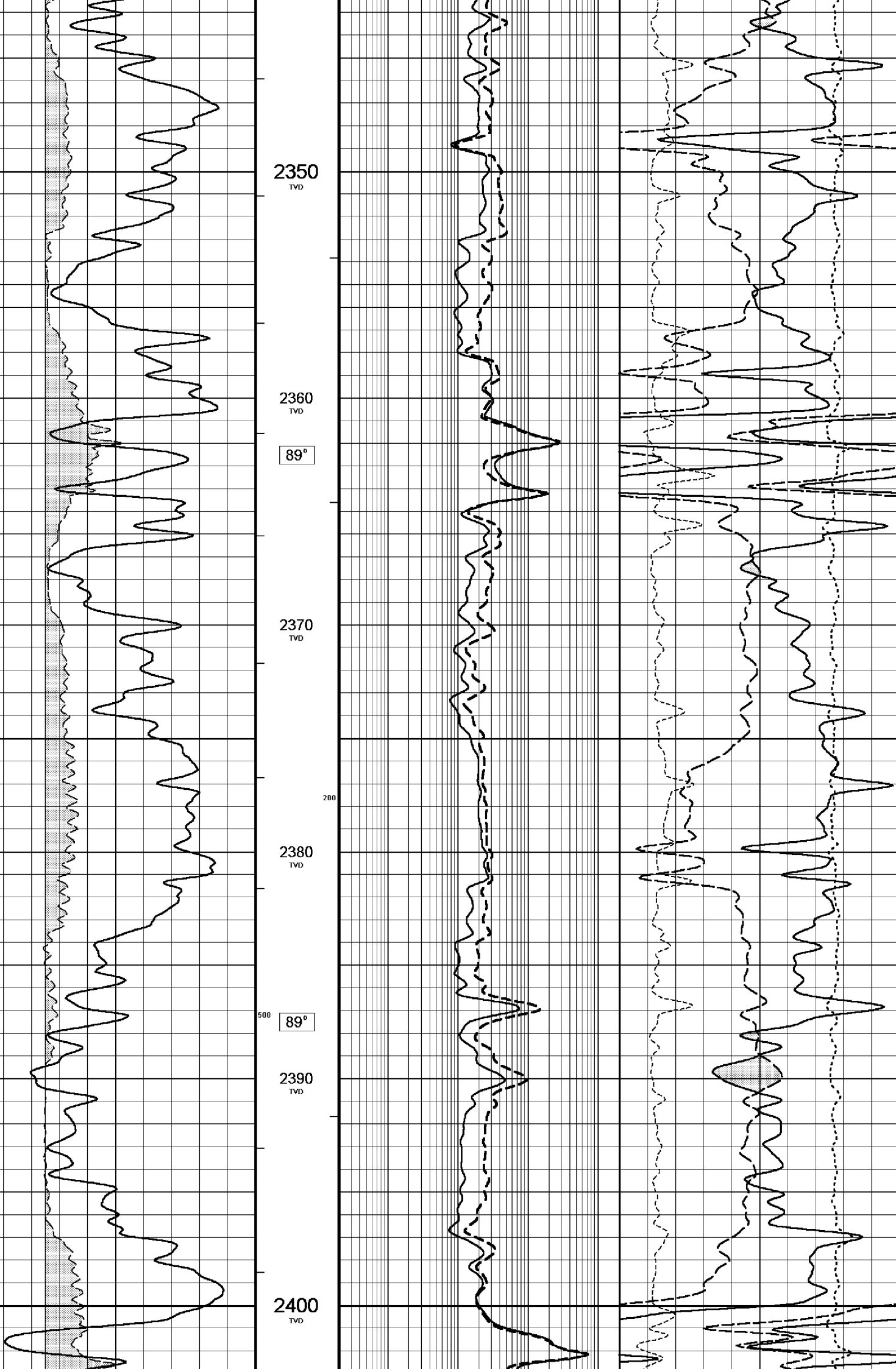
200

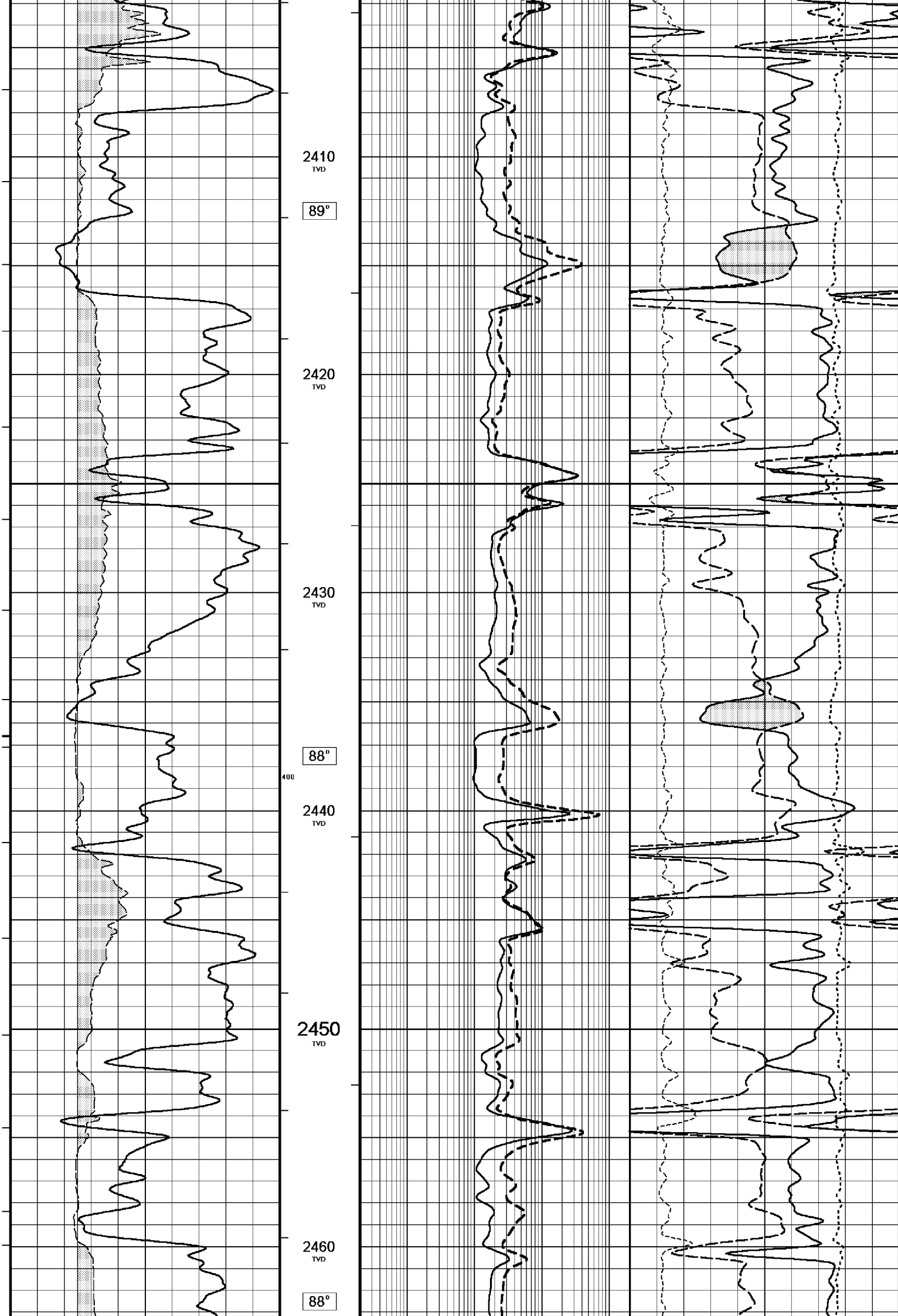
2380
TVD

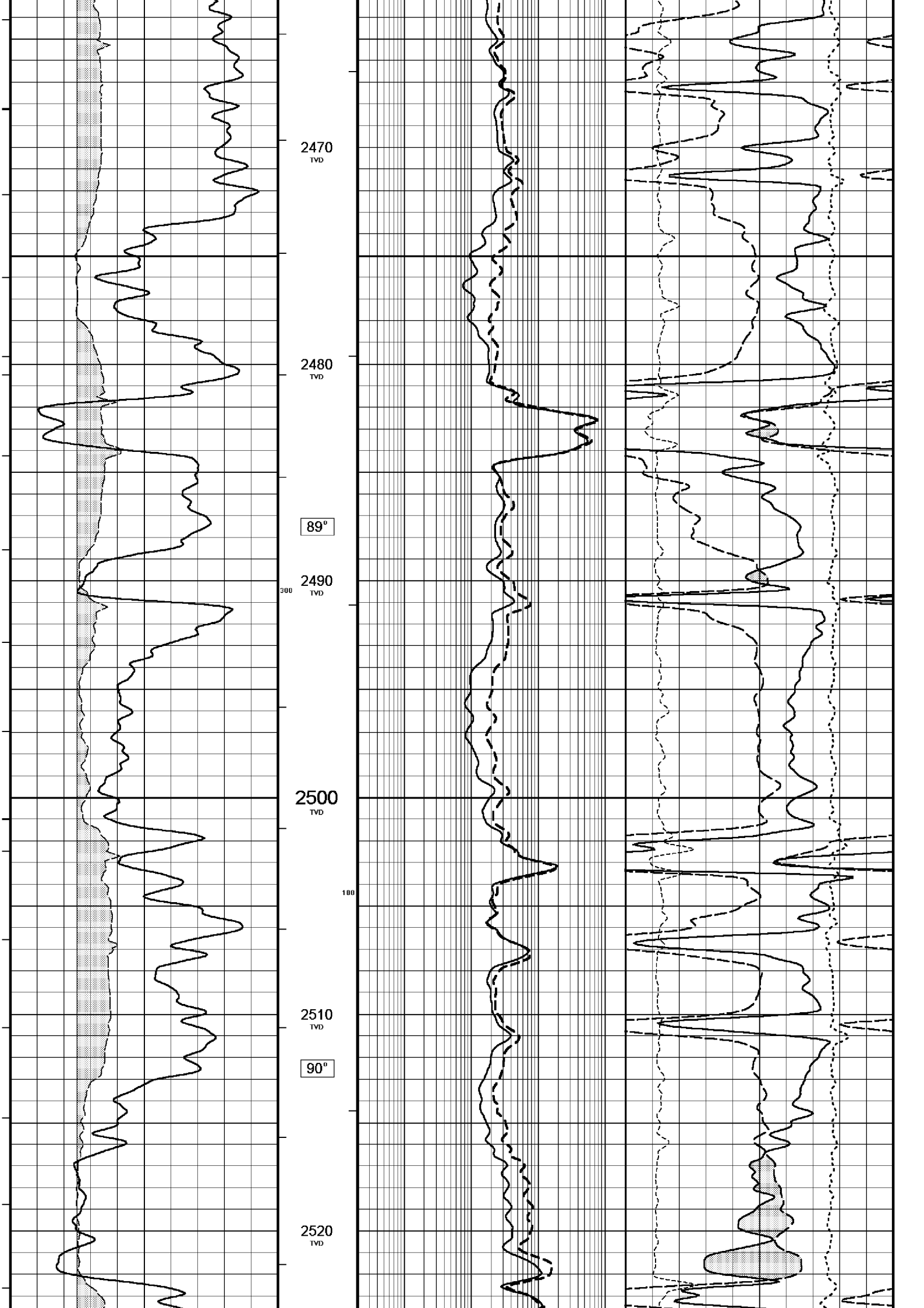
500
89°

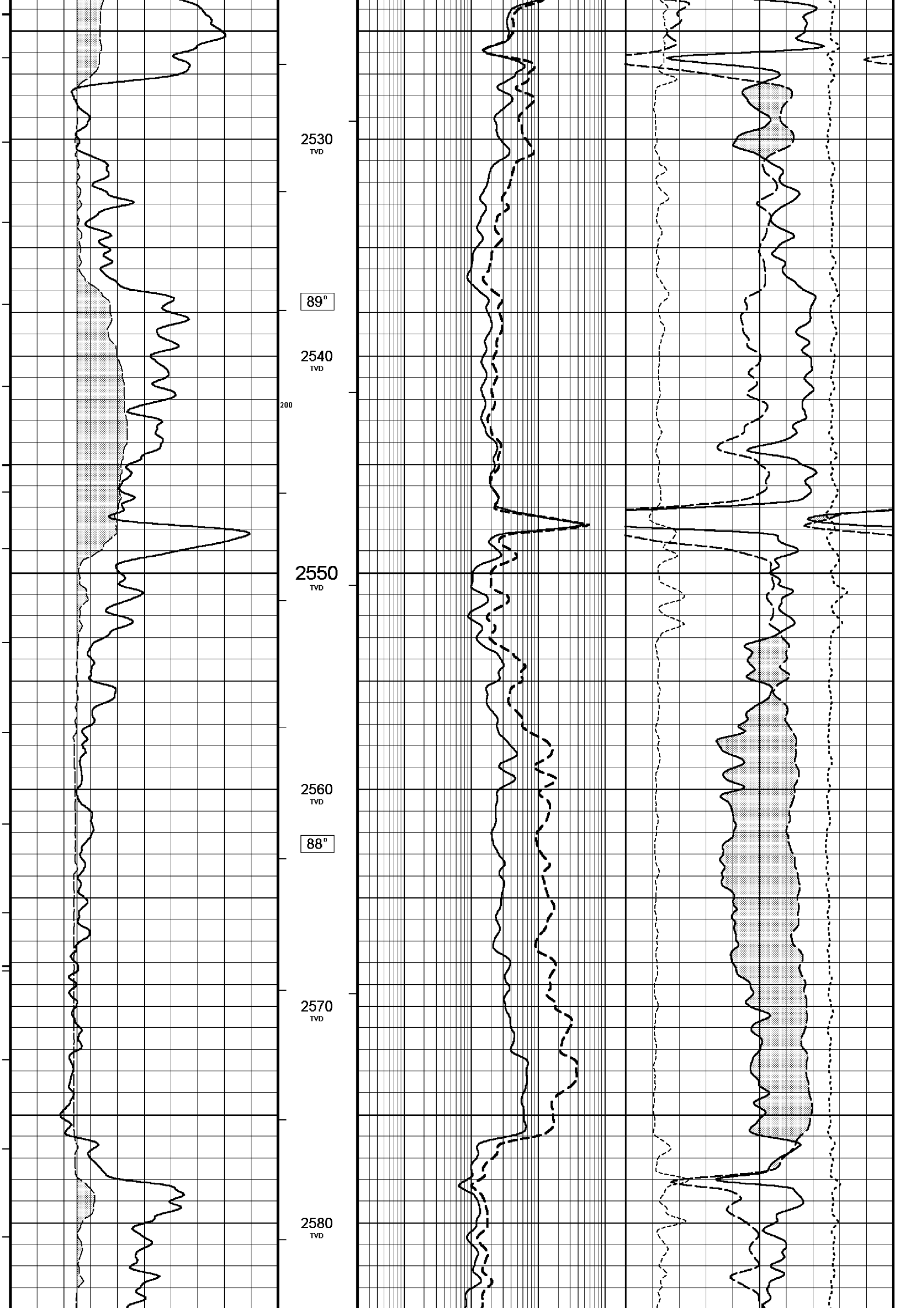
2390
TVD

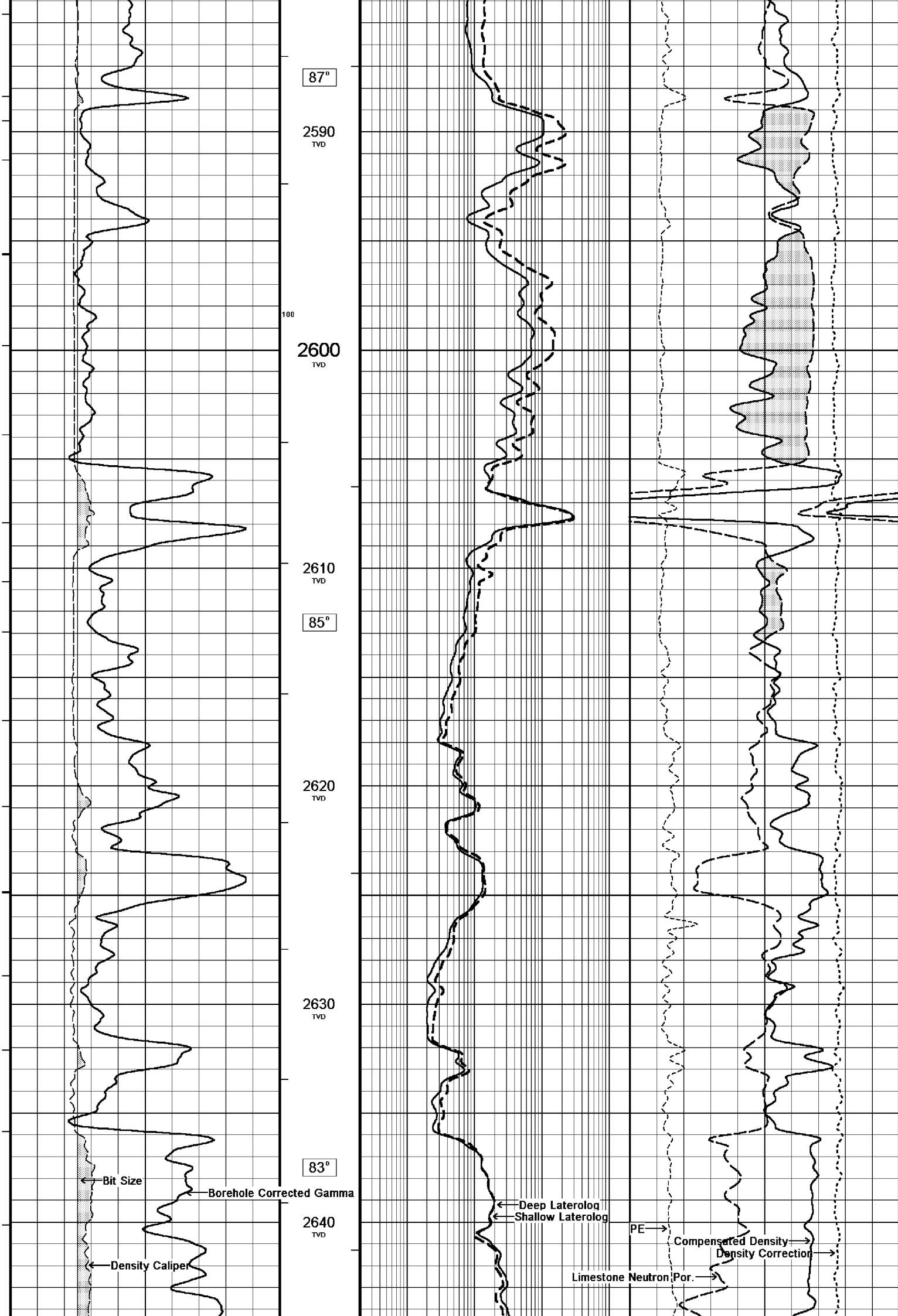
2400
TVD

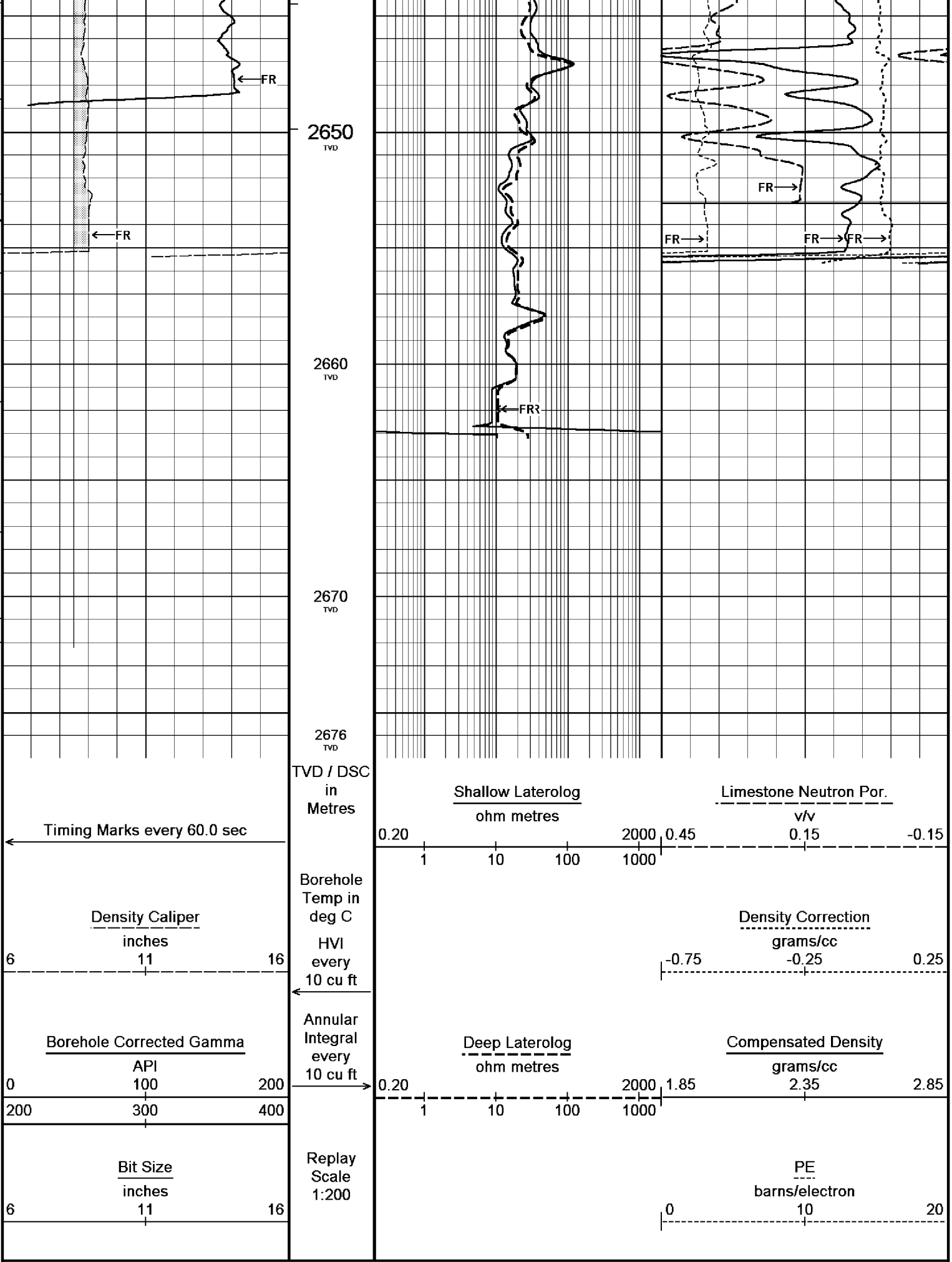












General Constants All 000

General Parameters

Mud Resistivity	0.119	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

Gamma Calibration MCG 098

Field Calibration on 3-MAY-2004 11:25

	Measured	Calibrated (API)
Background	8	5
Calibrator (Gross)	1371	914
Calibrator (Net)	1363	909

Gamma Constants MCG 098

Gamma Calibrator Number	60	
Mud Density	1.00	gm/cc
Caliper Source for Processing	Bit Size	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

High Resolution Temperature Calibration MCG 098

Field Calibration on 3-MAY-2004,11:21

	Measured	Calibrated(Deg C)
Lower	0.00	0.00
Upper	100.00	100.00

High Resolution Temperature Constants MCG 098

Pre-filter Length	11
-------------------	----

Neutron Calibration MDN 085

Base Calibration on 20-APR-2004 10:18

Field Check on 3-MAY-2004 10:35

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3167	98	3714	110
Ratio	32.172		33.764	

Field Calibrator at Base

	Calibrated (cps)
	1647 2404
Ratio	0.685

Field Check

	Calibrated (cps)
	1635 2387
Ratio	0.685

Neutron Constants MDN 085

Neutron Source Id	NSN-E-739	
Neutron Jig Number	NEC-C-052	
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.19	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	20.00	degrees C

Mud Salinity	42.00	kg/cc
Formation Fluid Salinity Source	None	
Formation Fluid Salinity	N/A	kppm
Barite Mud Correction	Not Applied	

Photo Density Calibration MPD 083

Base Calibration on 20-APR-2004 12:19

Field Check on 3-MAY-2004 10:28

Density Calibration

Base Calibration

	Measured	Calibrated (sdu)
	Near	Far
Reference 1	54734	19093
Reference 2	25855	2558

Field Check at Base

991.1 1147.4

Field Check

992.2 1143.0

PE Calibration

Base Calibration

	WS	Measured	Ratio	Calibrated
		WH		Ratio
Background	186	857		
Reference 1	17122	54541	0.315	0.320
Reference 2	6855	25709	0.268	0.273

Field Check at Base

186.1 857.3

Field Check

184.8 857.7

Density Constants MPD 083

Density Source Id	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	1.19	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

Caliper Calibration MPD 083

Base Calibration on 20-APR-2004 12:25

Field Calibration on 3-MAY-2004 10:29

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	13792	4.01
2	23424	5.99
3	33363	7.98
4	43344	9.94
5	54608	12.01
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.96	7.98

Laterolog Calibration MLE 017

Base Calibration on 16-APR-2004 15:30

Field Check on 3-MAY-2004,11:45

Base Calibration

	Measured	Calibrated (ohm-m)
Channel	Resistor 1	Resistor 2
Shallow	9.7	13.2
	969.1	1321.0

Shallow	9.7	969.1	7.5	755.0
Deep	9.7	969.2	7.5	755.0
Groningen	9.7	970.5	8.5	854.0

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Shallow	49.0	49.0
Deep	28.0	28.0
Groningen	253.1	253.2

Laterolog Constants MLE 017

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	Groningen Electrode	

DOWNHOLE EQUIPMENT

C:\Marlin\MLA A24a\Final Data Presentations\Black & White Prints\MLA A24A MAIN LOG TC.dta

Compact Swivel Head Adaptor
SHA 63 Length: 0.83 m Weight: 26.5 lb

Compact Knuckle Joint
SKJ 49 Length: 0.66 m Weight: 24.3 lb

Compact Battery Sub.
MBS 99 Length: 4.34 m Weight: 88.2 lb

Compact Inline Standoff B
MIS 141 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 127 Length: 0.65 m Weight: 15.4 lb

Compact Stiff Bridle Electrode Sub.
MBE 19 Length: 3.76 m Weight: 94.8 lb

Compact Knuckle Joint
SKJ 110 Length: 0.66 m Weight: 24.3 lb

Thrid Bridle MBE 20
MBE 20 Length: 3.76 m Weight: 94.8 lb



MLK 111 Length: 3.76 m Weight: 94.8 lb

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

Compact Memory Sub.
MMS 24 Length: 0.95 m Weight: 22.0 lb

Compact Knuckle Joint
SKJ 48 Length: 0.66 m Weight: 24.3 lb

Compact Swivel Head Adaptor
SHA 28 Length: 0.83 m Weight: 26.5 lb

Compact Inline Bowspring A
MIS 95 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 94 Length: 1.74 m Weight: 33.1 lb

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

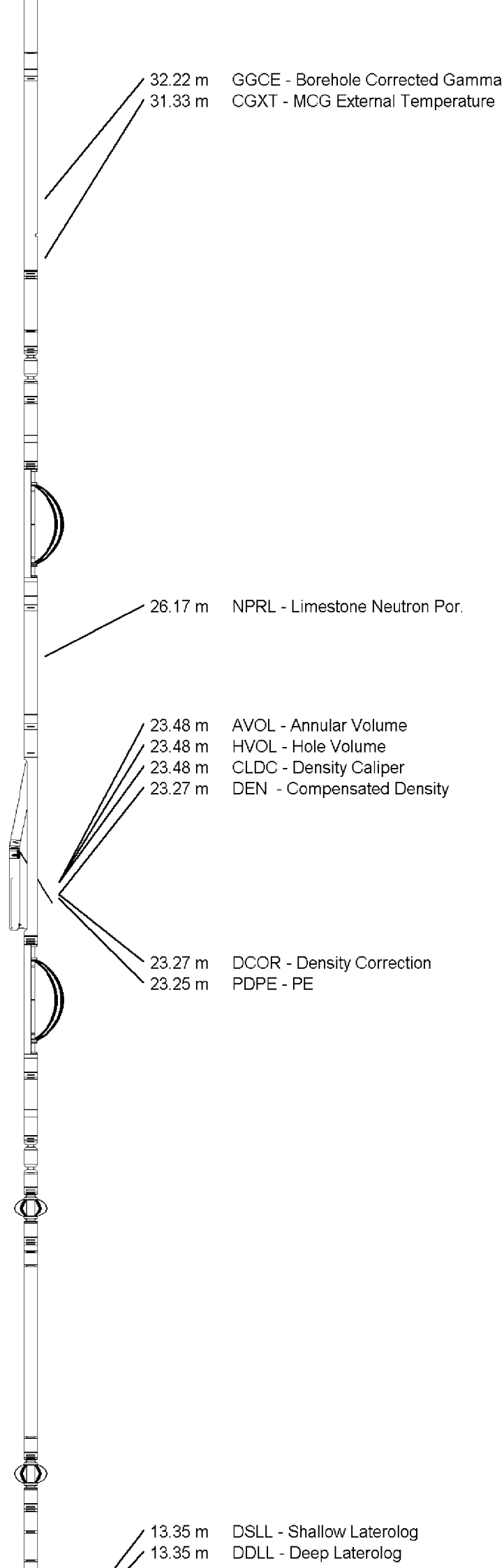
Compact Knuckle Joint
SKJ 44 Length: 0.66 m Weight: 24.3 lb

Compact Inline Standoff B
MIS 128 Length: 0.65 m Weight: 15.4 lb

Compact Upper Guard Sub.
MUG 5 Length: 2.74 m Weight: 68.3 lb

Compact Inline Standoff B
MIS 135 Length: 0.65 m Weight: 15.4 lb

Compact Laterolog Electrode Sub.
MLE 17 Length: 3.76 m Weight: 92.6 lb



Compact Inline Standoff B
MIS 31 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 140 Length: 0.65 m Weight: 15.4 lb

Compact Sonic
MSS 47 Length: 3.82 m Weight: 72.8 lb

Compact Inline Standoff B
MIS 73 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 3 Length: 0.28 m Weight: 6.6 lb

Total Length: 53.18 m Weight: 1294.1 lb



Tool Zero (0.32m from bottom)

All measurements relative to tool zero.

COMPANY	ESSO AUSTRALIA PTY. LTD.
WELL	MARLIN A24A
FIELD	TURRUM
PROVINCE/COUNTY	BASS STRAIT
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing	metres	First Reading	2672.50	metres
Elevation Drill Floor 27.91	metres	Depth Driller	2676.90	metres
Elevation Ground Level -59.00	metres	Depth Logger	2672.90	metres



DUAL LATEROLOG - GR
DENSITY - NEUTRON
1:200 TVD

