



Compact

COMPENSATED SONIC

1.200 TVD

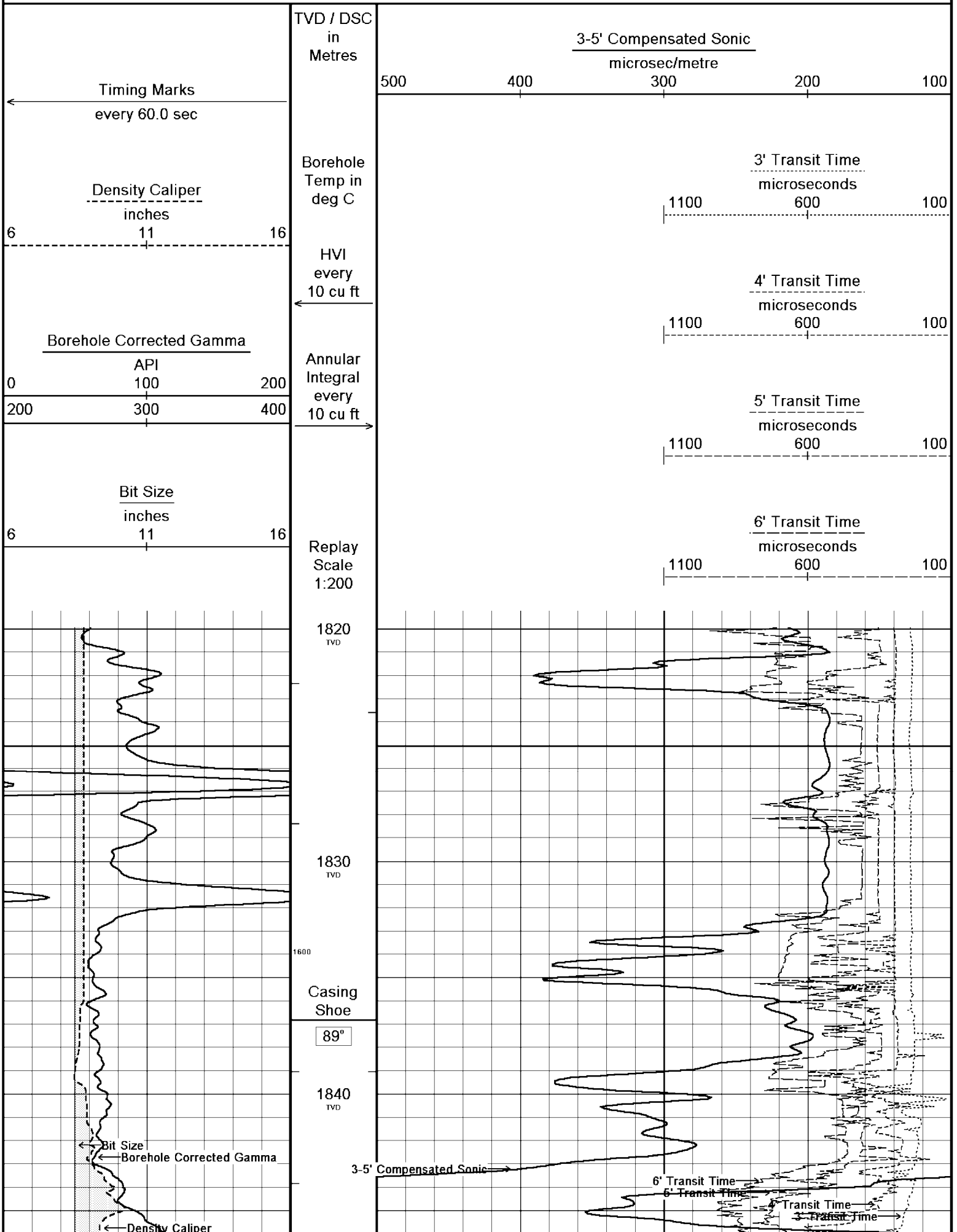
COMPANY	ESSO AUSTRALIA PTY LTD				
WELL	BREAM A10A				
FIELD	BREAM				
PROVINCE/COUNTY	BASS STRAIT				
COUNTRY/STATE	AUSTRALIA				
LOCATION	S 38 29 58.824, E 147 46 19.976 N 5738460.340 m, E 567336.310 m				
					FINAL PRINT
LSD	SEC	TWP	RGE	Other Services	
API Number				DUAL LATEROLOG	
Permit Number				PHOTO DENSITY	
Permanent Datum MSL				COMPENSATED NEUTRON	
Log Measured From RT @ 32.82m					Elevations: KB 32.82 metres DF 32.82 metres GL -59.40 metres
Drilling Measured From RT					
Date	16-MAY-2005				
Run Number	ONE				
Depth Driller	2717.18			metres	
Depth Logger	2212.30			metres	
First Reading	2707.80			metres	
Last Reading	1836.80			metres	
Casing Driller	1836.38			metres	
Casing Logger	1836.80			metres	
Bit Size	8.50			inches	
Hole Fluid Type	KC/POLY/GYL				
Density / Viscosity	10.10 lb/USg			30.00 cP	
PH / Fluid Loss	9.00			3.00 ml/30Min	
Sample Source	FLOWLINE				
Rm @ Measured Temp	0.134 @ 25.0			ohm-m	
Rmf @ Measured Temp	0.103 @ 25.0			ohm-m	
Rmc @ Measured Temp	0.236 @ 25.0			ohm-m	
Source Rmf / Rmc	PRESS			PRESS	
Rm @ BHT	0.053 @ 97.3			ohm-m	
Time Since Circulation	28.5 HRS				
Max Recorded Temp	104.10			deg C	
Equipment Name	CWS/CML				
Equipment / Base	1			SALE	
Recorded By	G. MCMANUS, B. MOSS				
Witnessed By	TREVOR LOBO				
CIRC STOPPED	21:00 14-MAY				

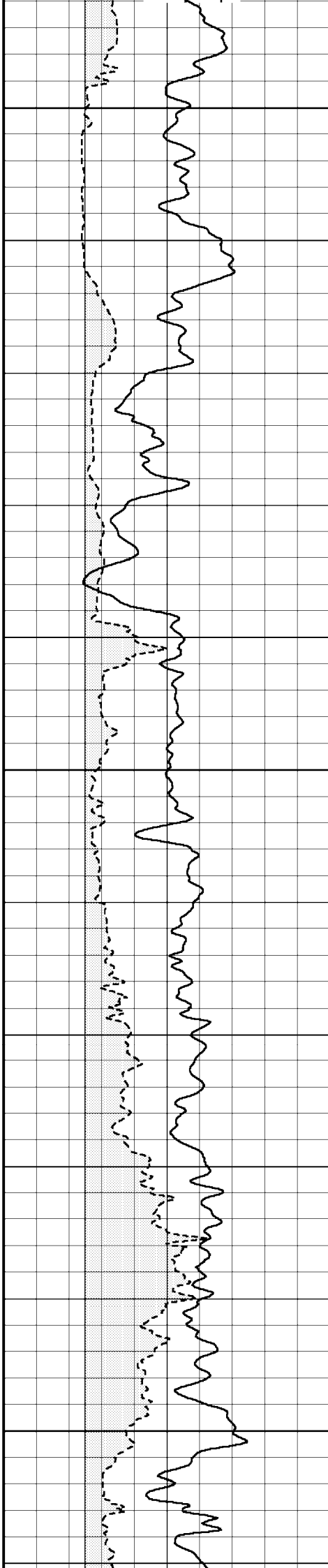
BOREHOLE RECORD				
Bit Size inches		Depth From metres		Depth To metres
8.500		2258.80		3379.50
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	13.375	0.00	921.00	54.50
L-80	9.625	0.00	2258.80	47.00

REMARKS
RIG: NABORS 453
5" SHUTTLE/MEMORY COMPACT OPERATION. CREW: G MCMANUS , R TENCH , B MOSS , K LUCIEER.
ALL LOGS DEPTH CORRELATED TO ANADRILL GAMMA LOG.
DENSITY CALIPER CLOSED BETWEEN 2594.50m MD AND 2598.2m MD DUE TO THE INDUCTION SONDE DETECTING A PIECE OF BRASS DEBRIS IN THE WELL. DENSITY - NEUTRON DATA IN THIS INTERVAL WILL BE INACCURATE.
MAX. TEMPERATURE: 104.1 DEG C AT 3331.10m MD MAX. INCLINATION: 47.28 DEG AT 2315.54m MD MAX. DOGLEG SERVERITY: 4.68 DEG/30m AT 2775.31m MD DEPLOYMENT ANGLE: 24 DEG
HVOL: 1620 FT^3 AVOL: 865 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.





1850
TVD

1860
TVD

89°

1870
TVD

1880
TVD

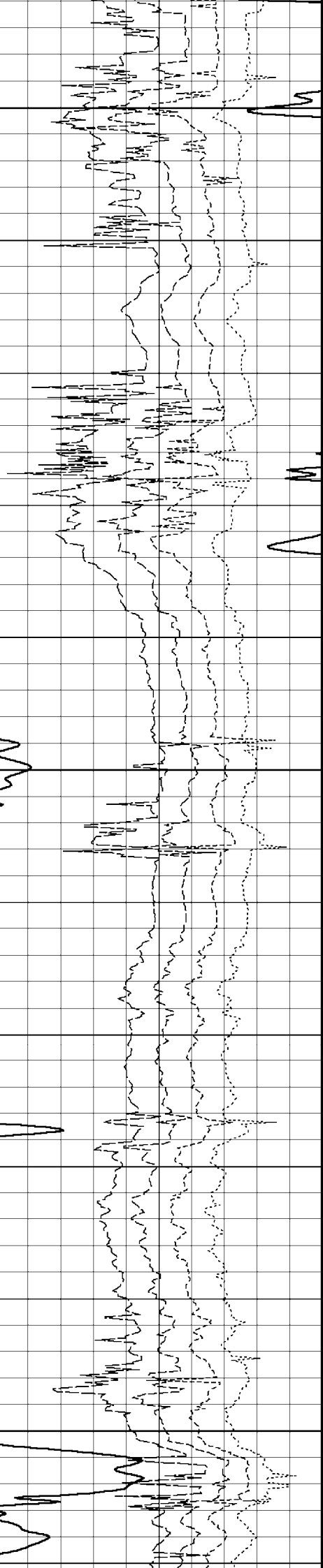
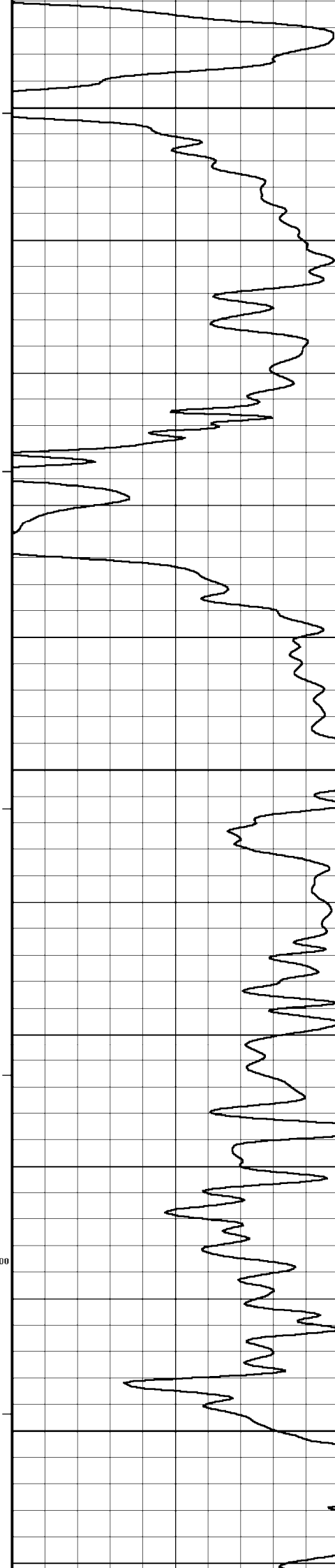
1500

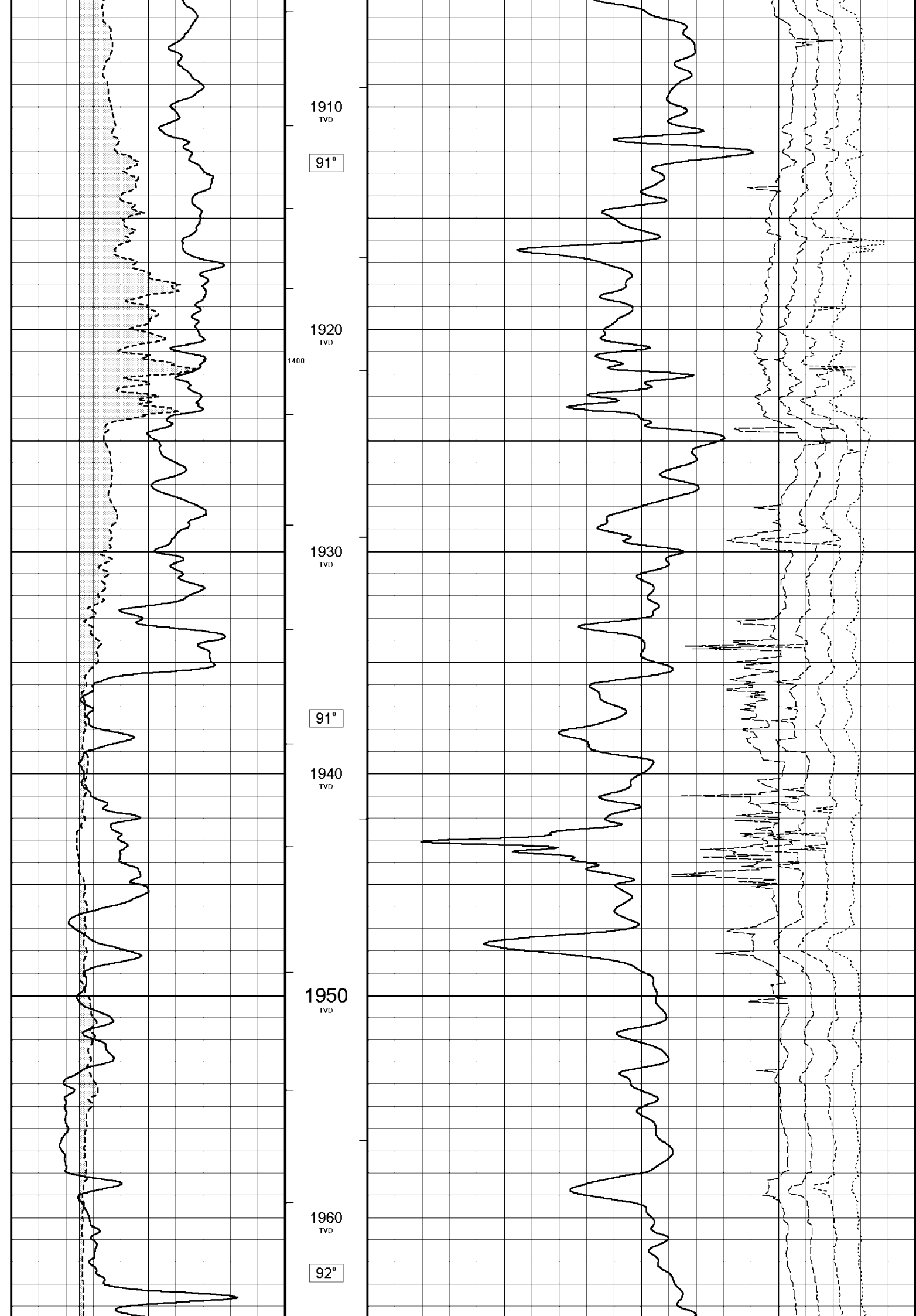
90°

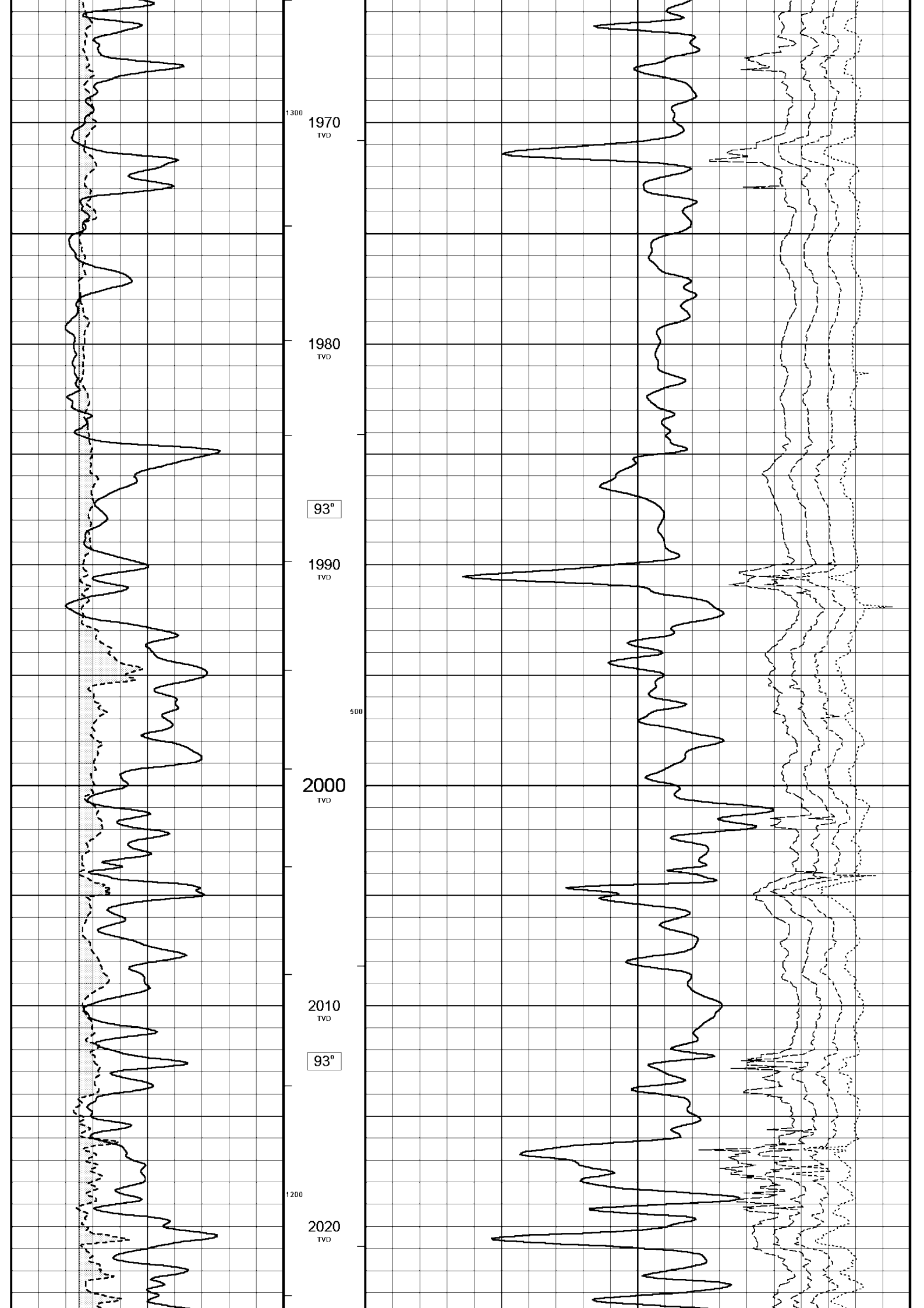
1890
TVD

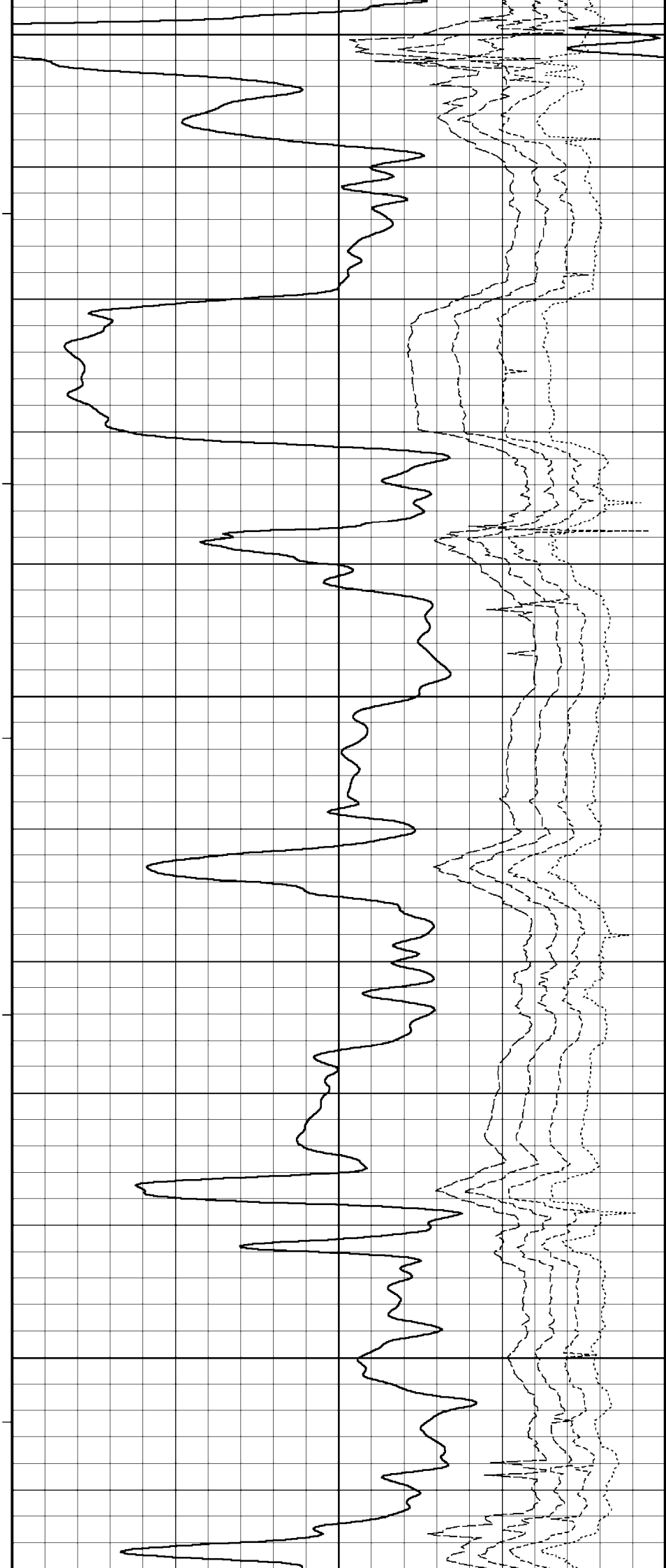
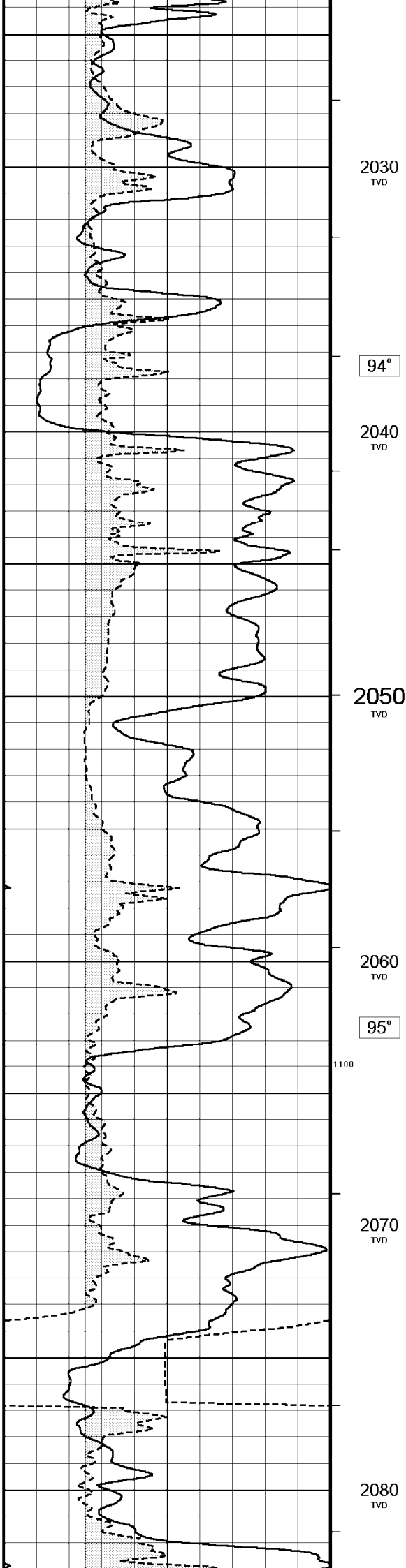
600

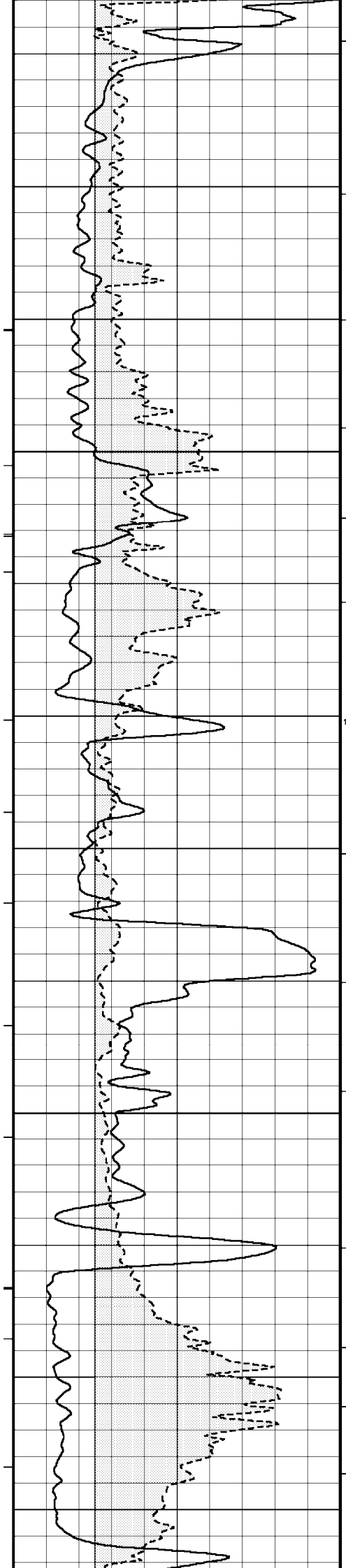
1900
TVD











95°

2090
TVD

2100
TVD

400

1000 2110
TVD

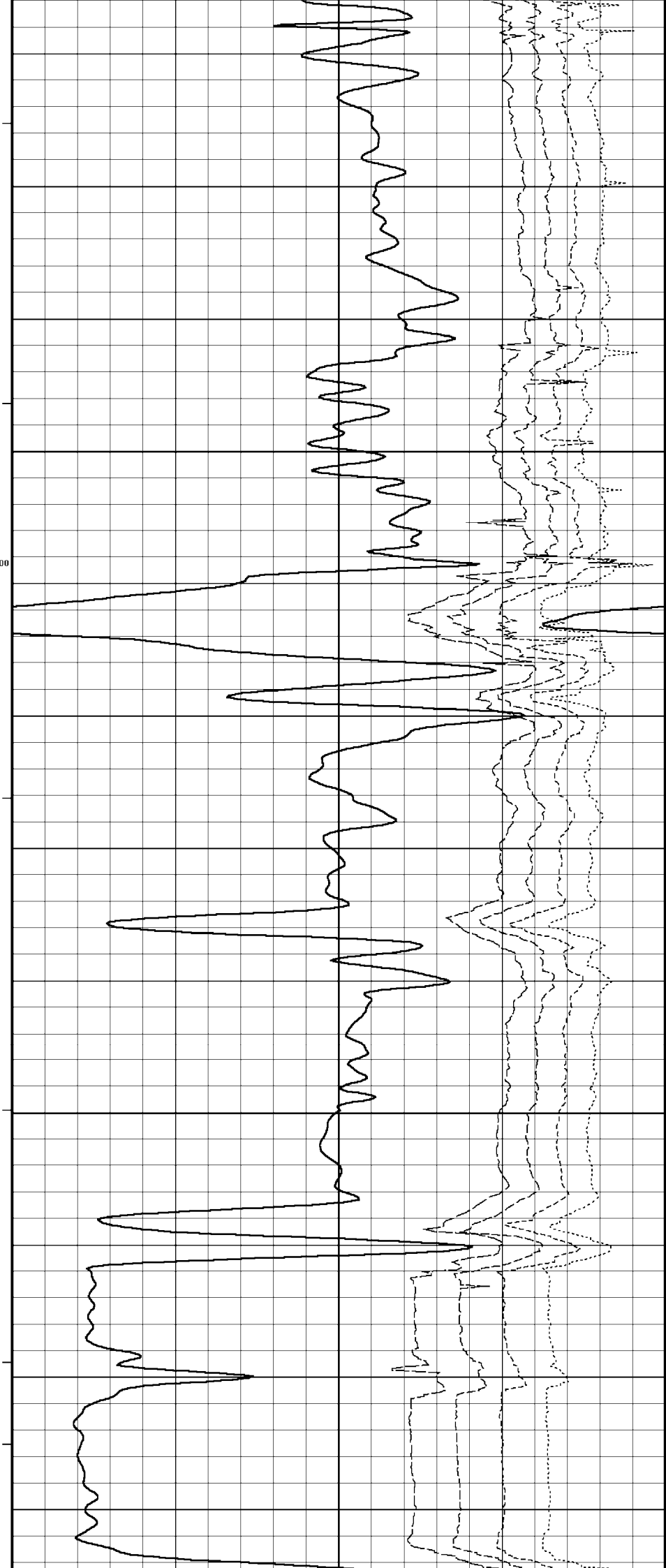
96°

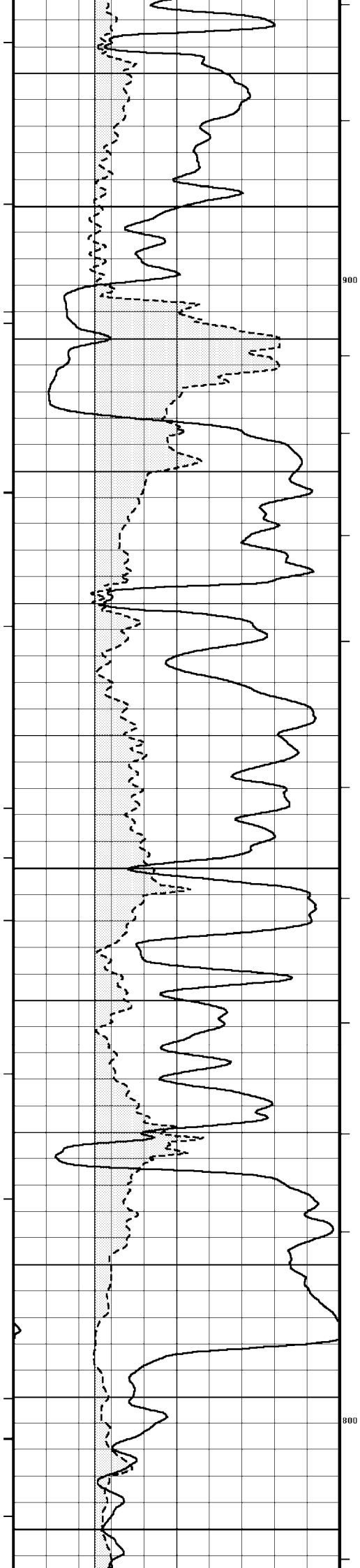
2120
TVD

2130
TVD

97°

2140
TVD





2150
TVD

900

2160
TVD

98°

2170
TVD

2180
TVD

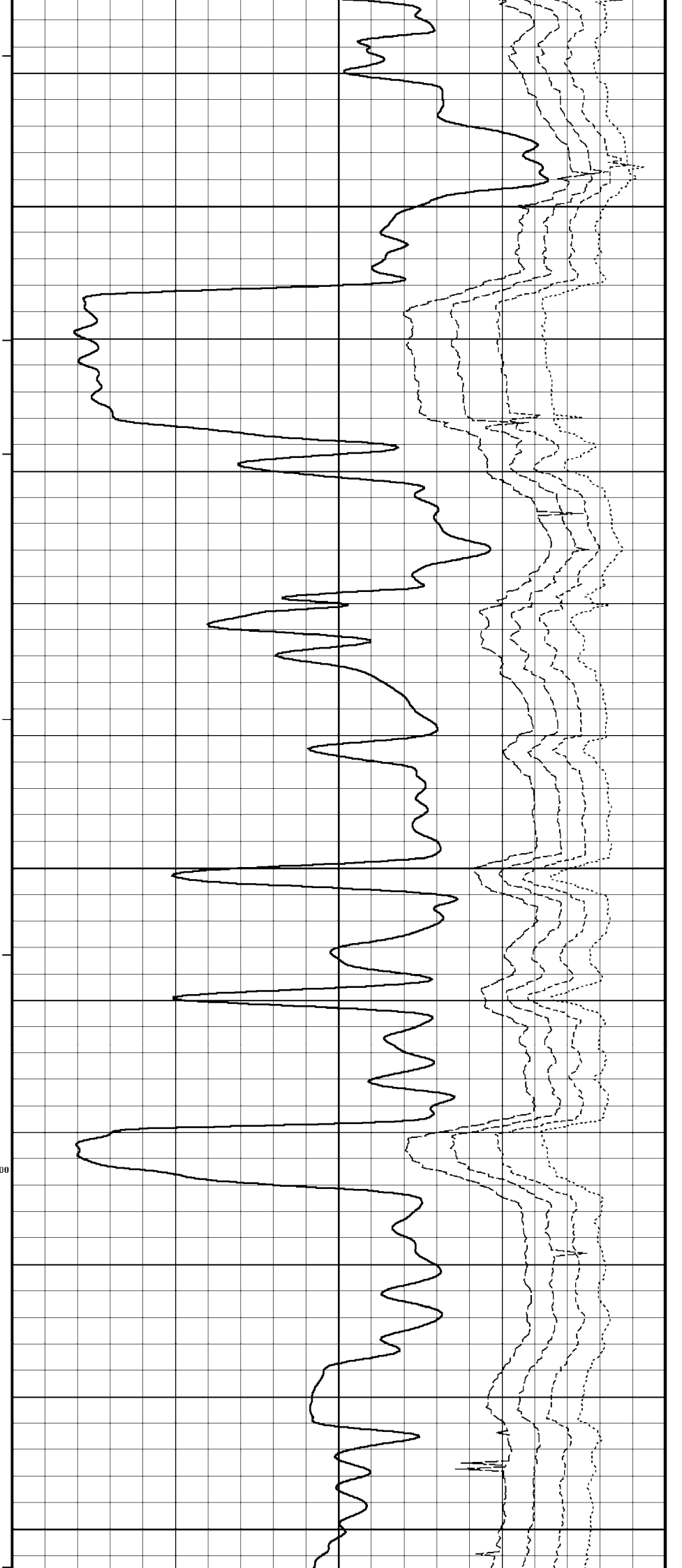
300

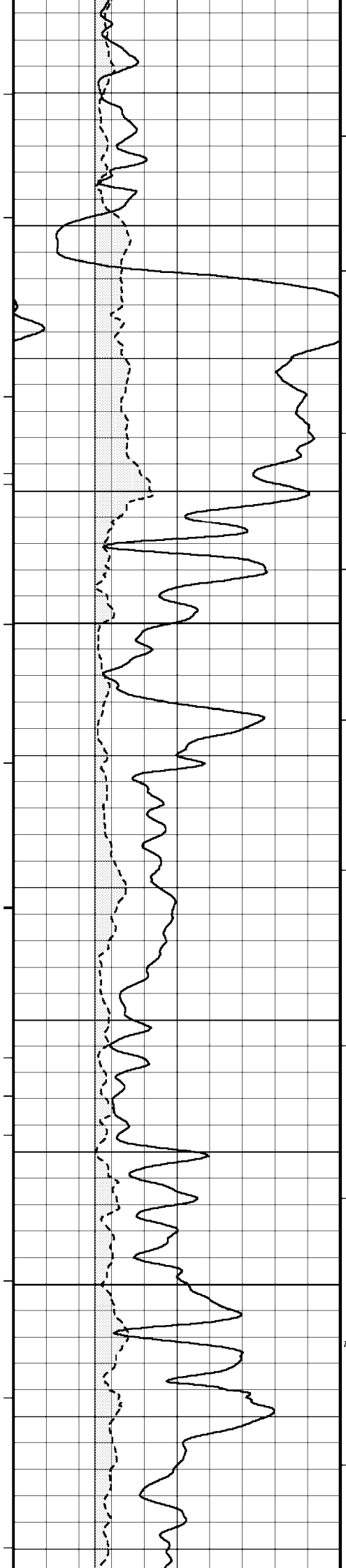
98°

2190
TVD

800

2200
TVD





2210
TVD

99°

2220
TVD

2230
TVD

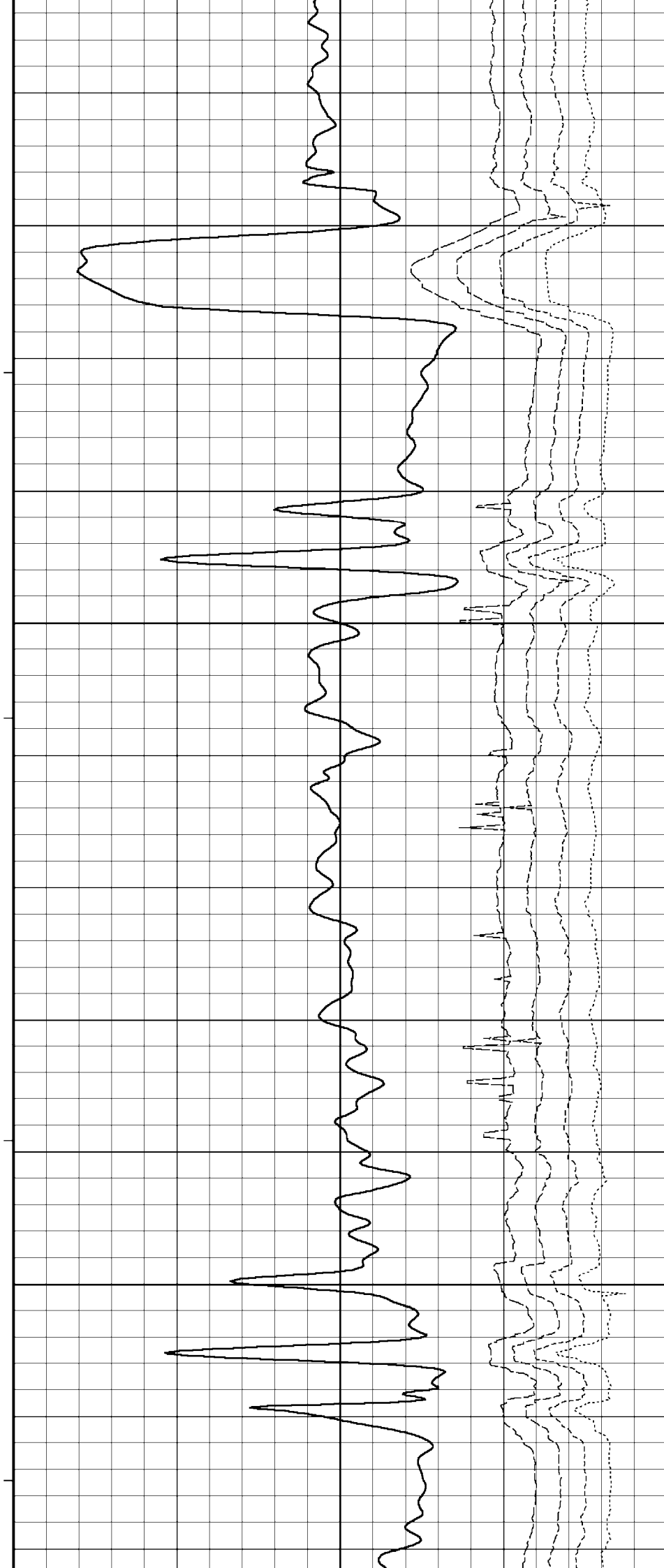
100°

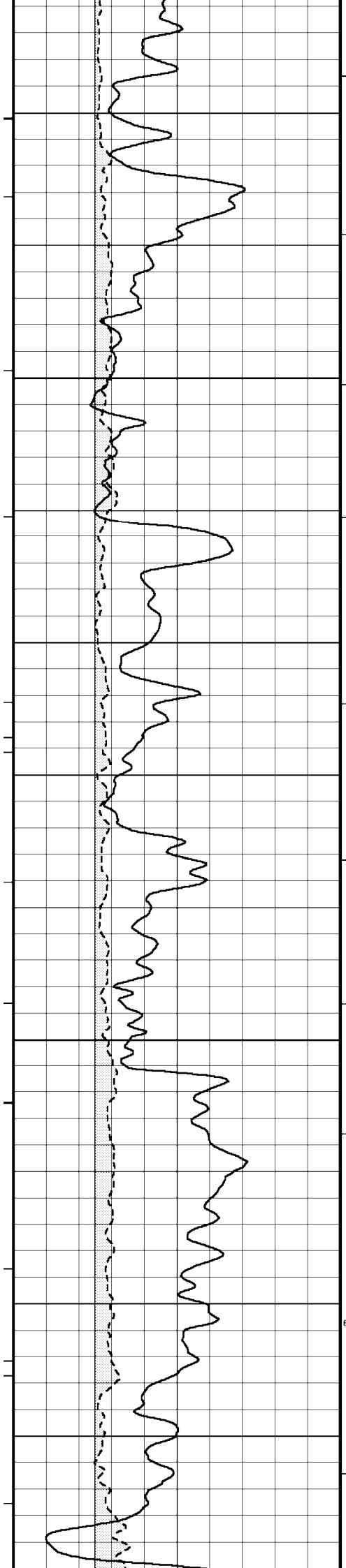
2240
TVD

2250
TVD

700

2260
TVD





100°

2270
TVD

2280
TVD

100°

2290
TVD

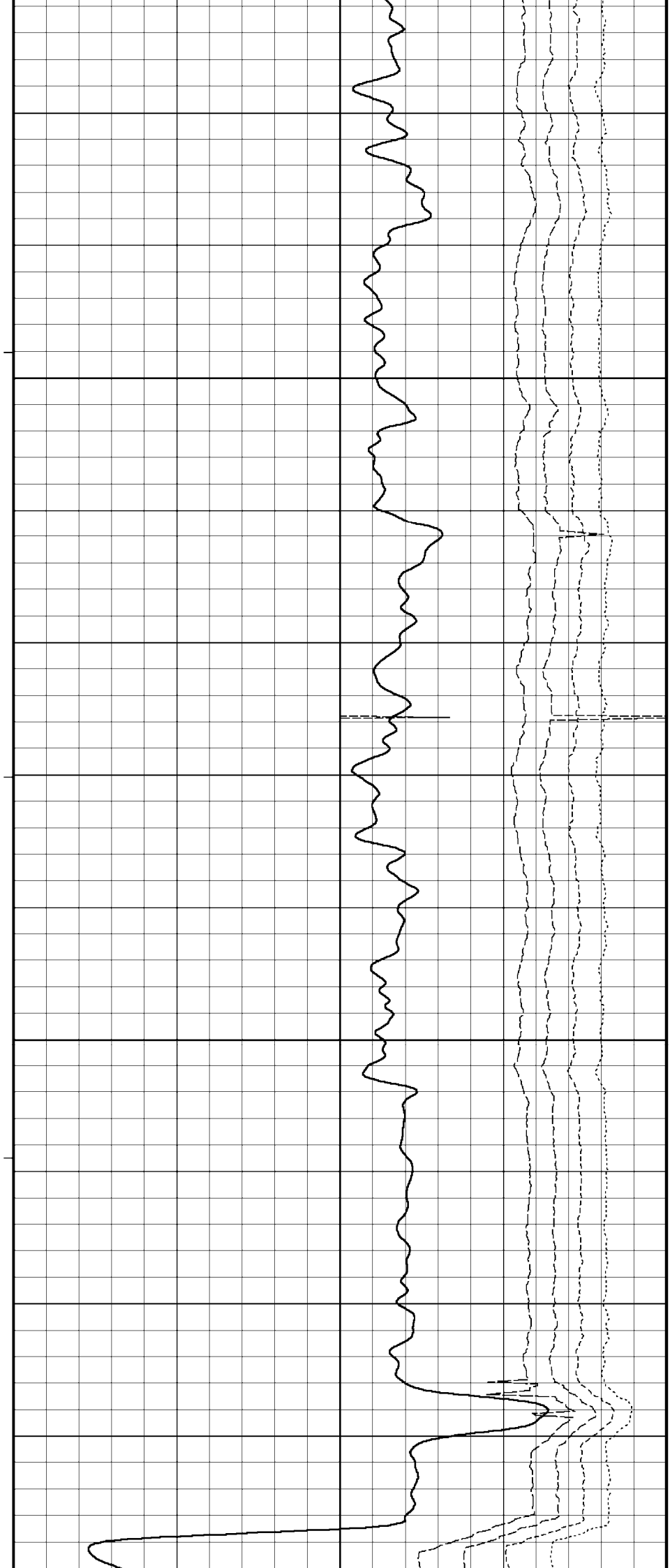
2300
TVD

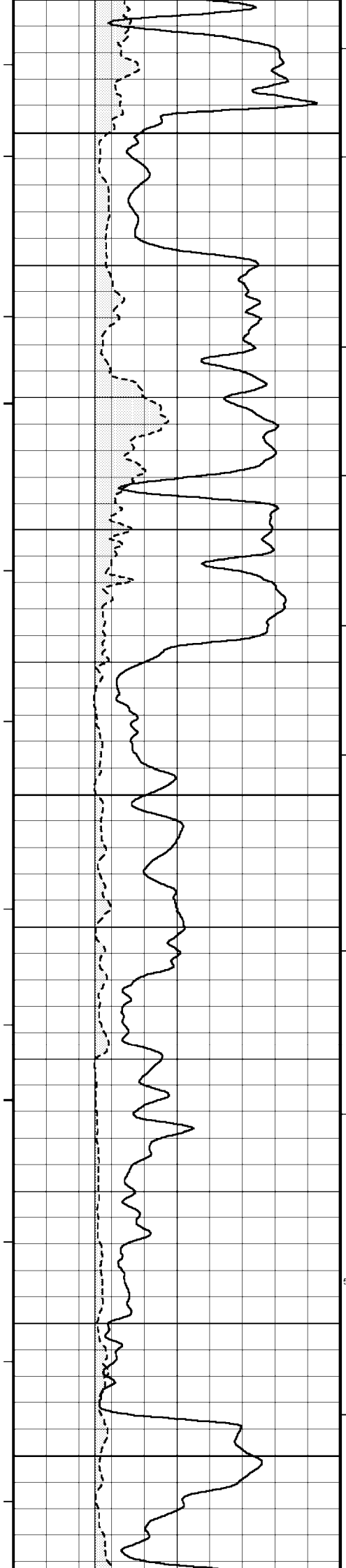
2310
TVD

100°

2320

600





2320
TVD

2330
TVD

200

100°

2340
TVD

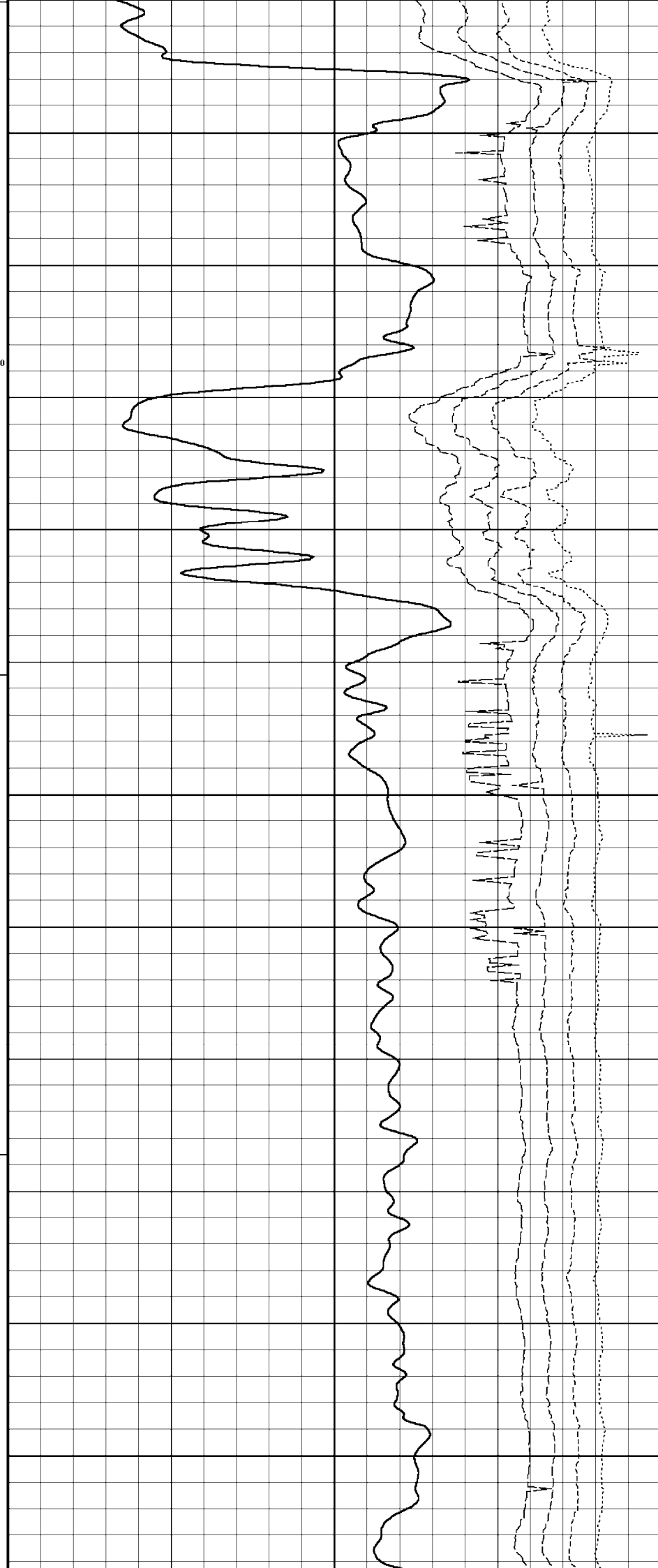
2350
TVD

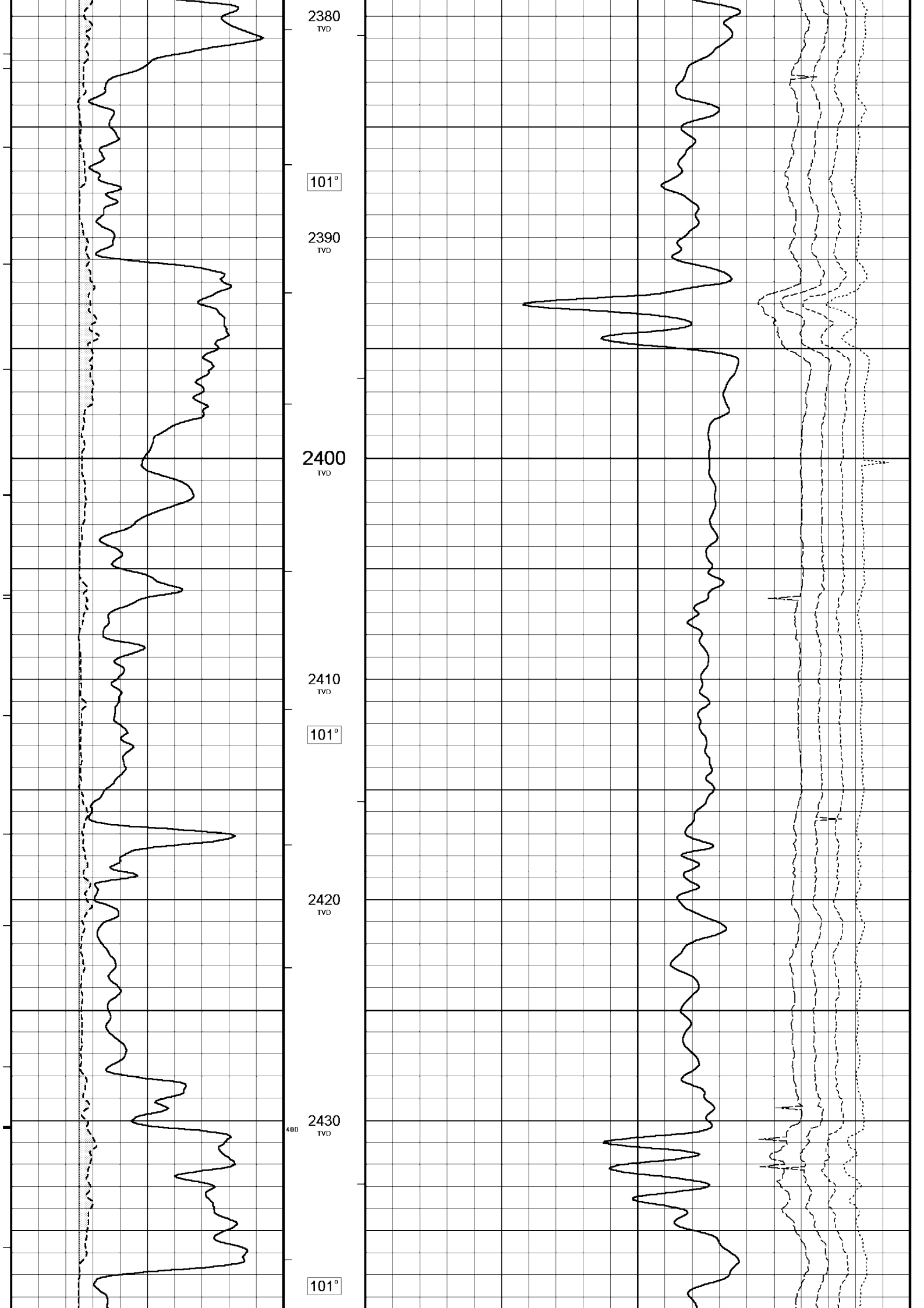
2360
TVD

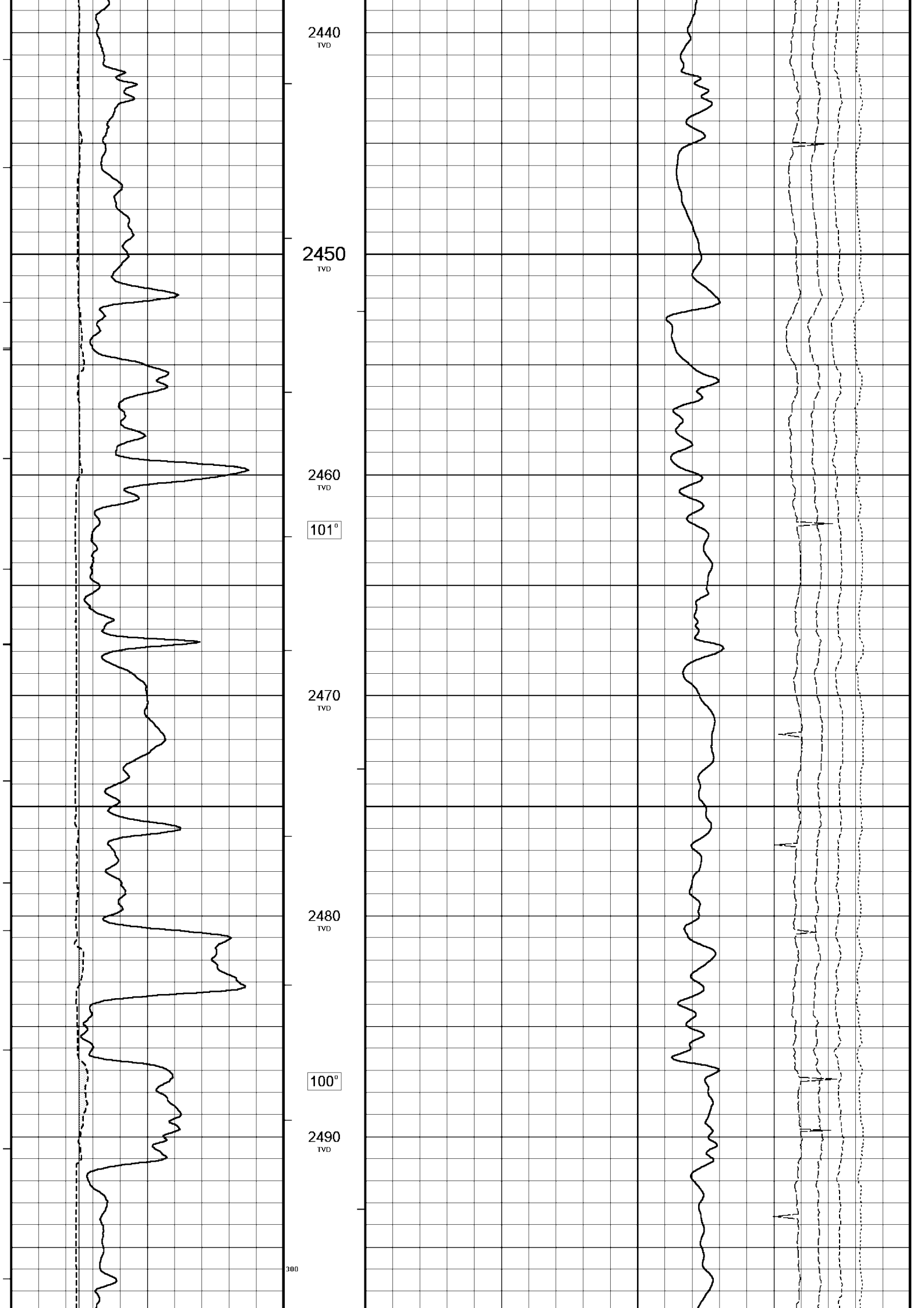
101°

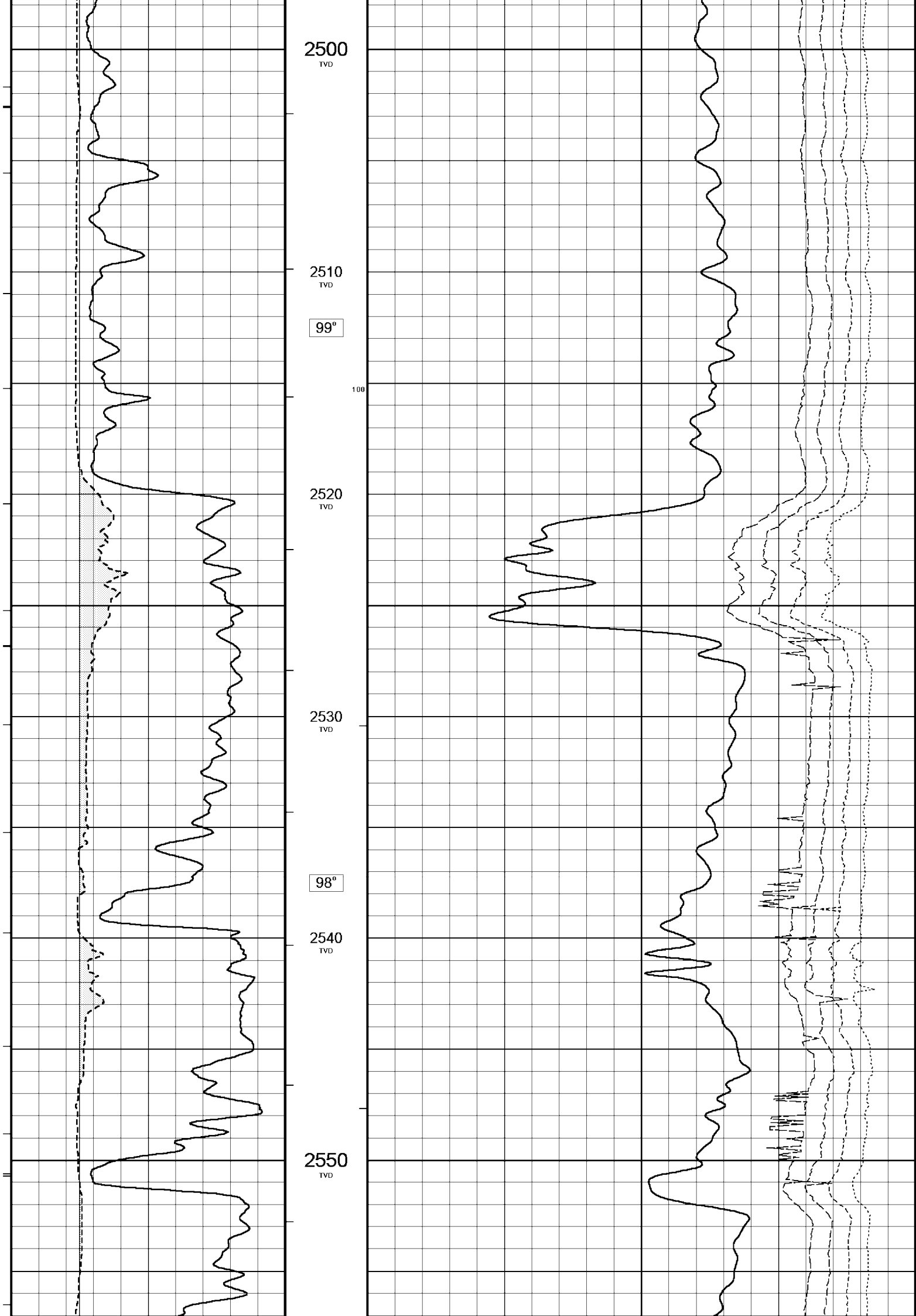
500

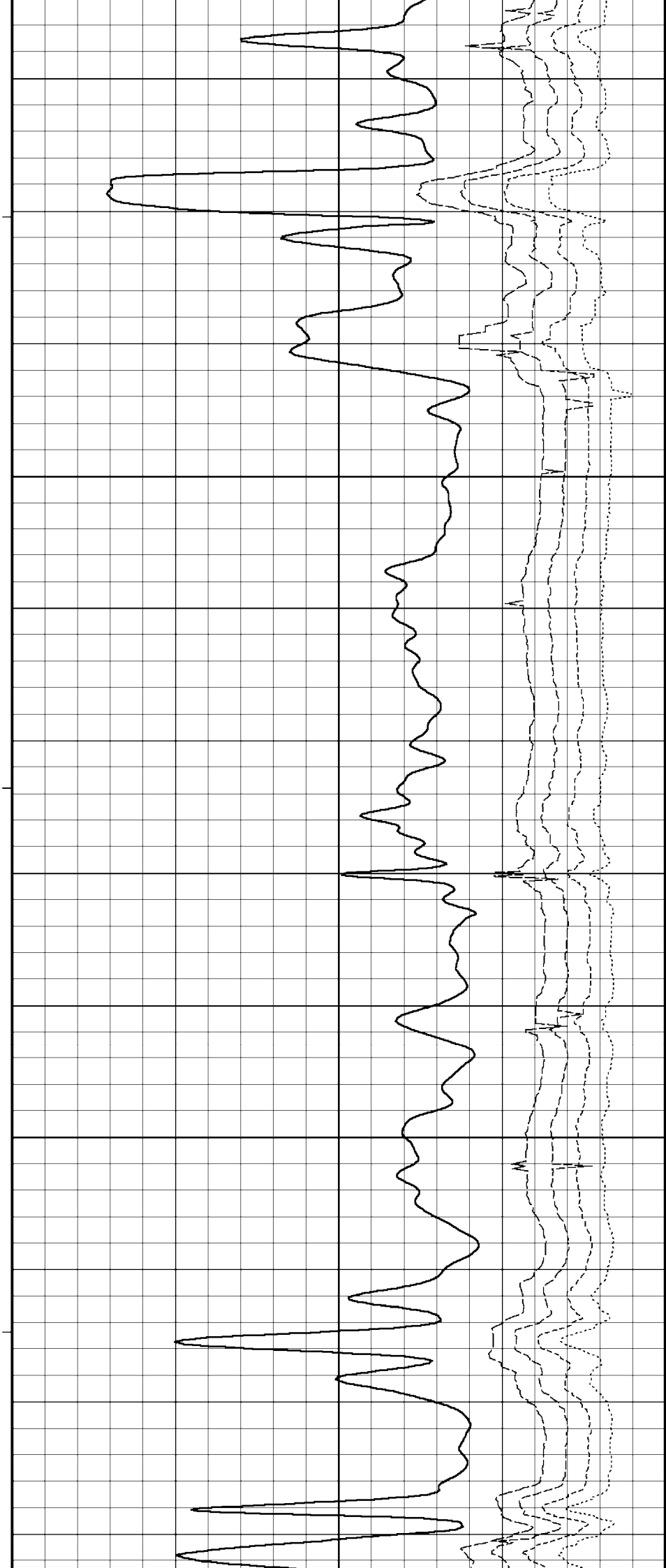
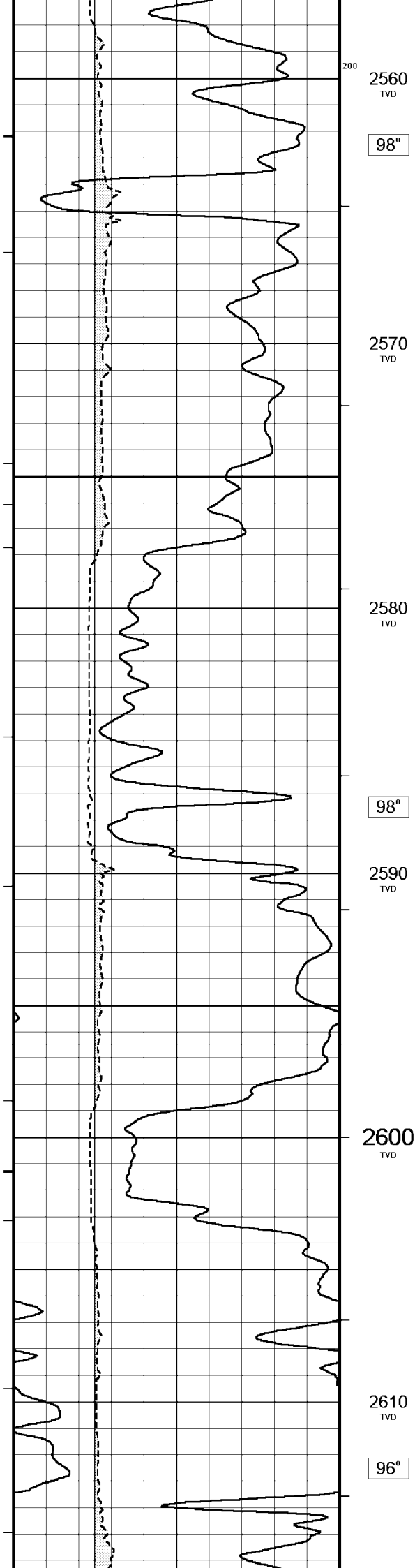
2370
TVD

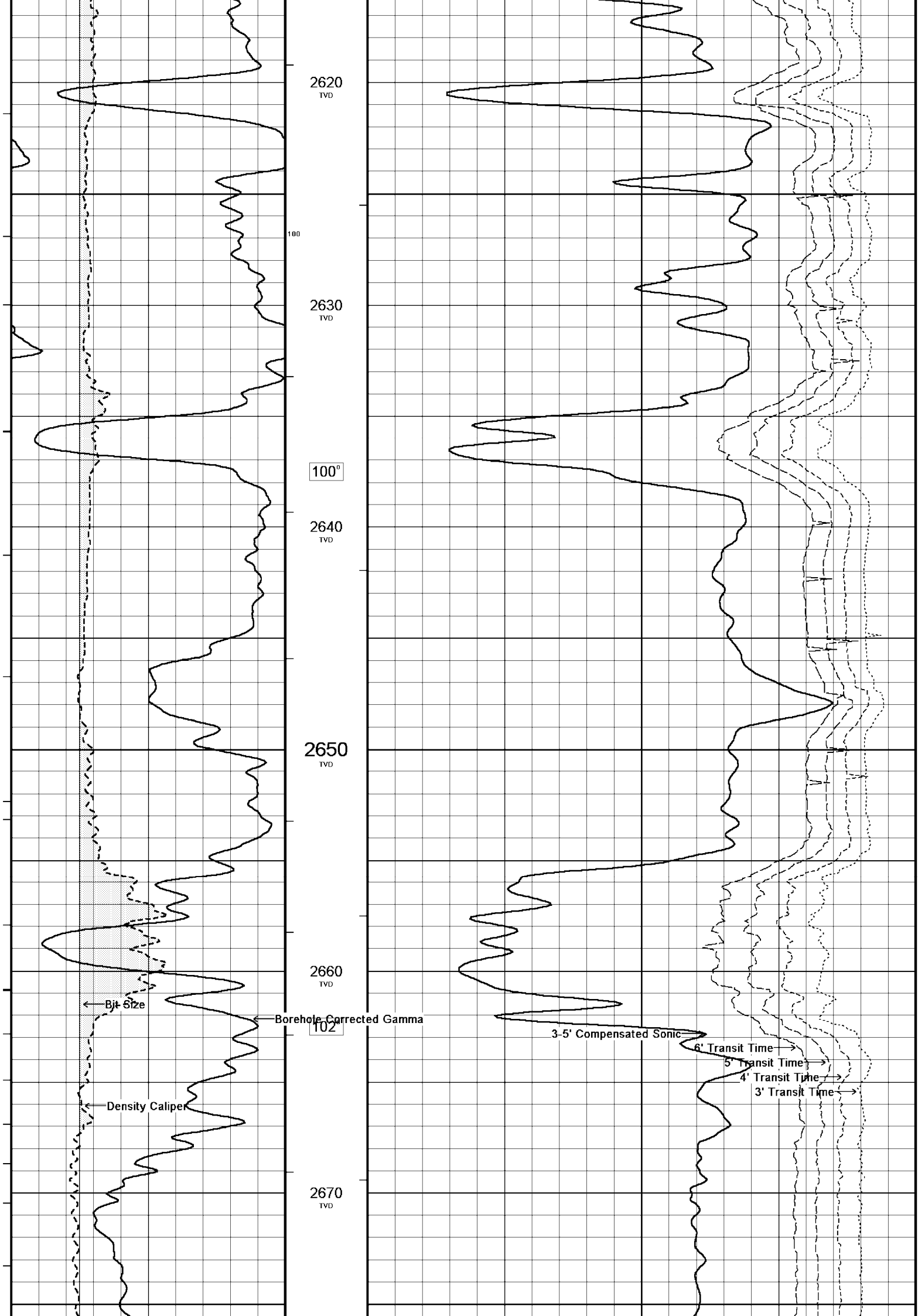


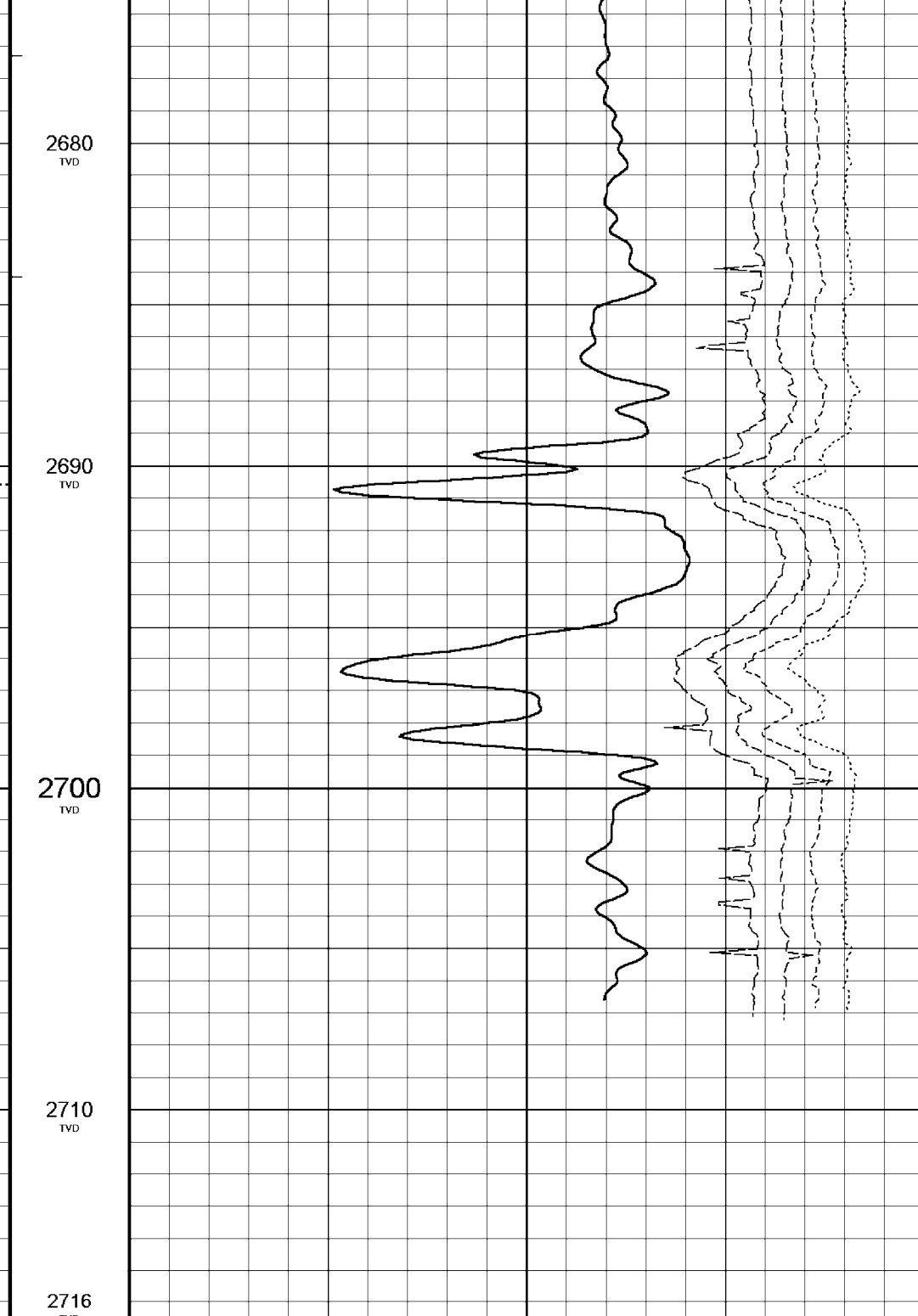
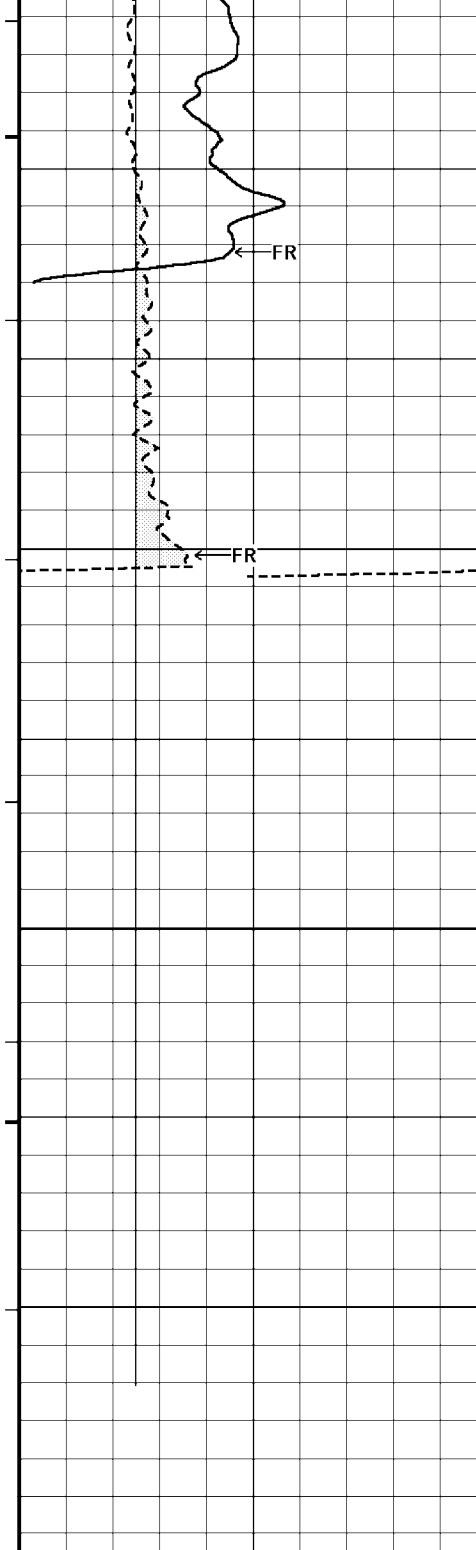












2716
TVD / DSC
in
Metres

← Timing Marks
every 60.0 sec

Density Caliper
inches
6 11 16

HVI
every
10 cu ft
←

Borehole Corrected Gamma
API
0 100 200
200 300 400

Annular
Integral
every
10 cu ft
→

3-5' Compensated Sonic
microsec/metre
500 400 300 200 100

3' Transit Time
microseconds
1100 600 100

4' Transit Time
microseconds
1100 600 100

5' Transit Time
microseconds



Depth Based Data - Maximum Sampling Increment 10.0cm	Plotted on 15-AUG-2005 11:46
Filename: C:\logs\BMA_A10A\BMA_A10A_MAIN_LOG_MSS_Remake_2JUNE05.dta	Recorded on 16-MAY-2005 12:18
System Configuration Dates: Logged : Processed 23-AUG-2004: Plotted 17-JUN-2004:	

↑

MAIN LOG 1:200

↑

BEFORE SURVEY CALIBRATION

C:\logs\BMA_A10A\BMA_A10A_MAIN_LOG_MSS_Remake_2JUNE05.dta

General Constants All 000		
General Parameters		
Mud Resistivity	0.134	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	

High Resolution Temperature Calibration MCG 098			Field Calibration on 8-MAY-2005,02:39
	Measured	Calibrated(Deg C)	
Lower	0.00	0.00	
Upper	100.00	100.00	

High Resolution Temperature Constants MCG 098	
Pre-filter Length	11

Gamma Calibration MCG 098			Field Calibration on 8-MAY-2005 02:39
	Measured	Calibrated (API)	
Background	9	6	
Calibrator (Gross)	1373	915	
Calibrator (Net)	1364	909	

Gamma Constants MCG 098		
Gamma Calibrator Number	060	
Mud Density	1.21	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

Caliper Calibration MPD 083			Base Calibration on 29-APR-2005 11:31
			Field Calibration on 8-MAY-2005 02:30
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	13428	4.01	
2	21585	5.99	
3	30000	7.98	
4	38511	9.94	
5	47824	12.01	
6	N/A	N/A	
Field Calibration			

Field Calibration

Measured Caliper (in)
8.03Actual Caliper (in)
7.98

Sonic Constants MSS 066

Maximum Boundary Contrast	328.08	micro-sec/m
Fluid Transit Time	620.08	micro-sec/m
Limestone Transit Time	155.84	micro-sec/m
Sandstone Transit Time	182.09	micro-sec/m
Dolomite Transit Time	142.72	micro-sec/m
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	N/A
Use 4' Waveform to derive TR	N/A
Use 5' Waveform to derive TR	N/A
Use 6' Waveform to derive TR	N/A
3' Waveform Discriminator Level	N/A mV
4' Waveform Discriminator Level	N/A mV
5' Waveform Discriminator Level	N/A mV
6' Waveform Discriminator Level	N/A mV
3' Waveform Filter	N/A
4' Waveform Filter	N/A
5' Waveform Filter	N/A
6' Waveform Filter	N/A
Semblance Level	N/A
Semblance Window Width	N/A micro-sec
Sonic 1 Despiker	N/A N/A
Sonic 2 Despiker	N/A N/A

DOWNHOLE EQUIPMENT

C:\logs\BMA_A10A\BMA_A10A_MAIN_LOG_MSS_Remake_2JUNE05.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: 90.4 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 139 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

MBE 21 - THIRD BRIDLE
MLK 111 Length: 3.76 m Weight: 88.2 lb

Compact Gamma
MCG 98 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 46 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

23.48 m AVOL - Annular Volume
23.48 m HVOL - Hole Volume
23.48 m CLDC - Density Caliper

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 140 Length: 0.65 m Weight: 15.4 lb

Compact Upper Guard Sub.
MUG 20 Length: 2.74 m Weight: 68.3 lb

Compact Inline Standoff B
MIS 129 Length: 0.65 m Weight: 15.4 lb

Compact Laterolog Electrode Sub.
MLE 16 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 133 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 128 Length: 0.65 m Weight: 15.4 lb



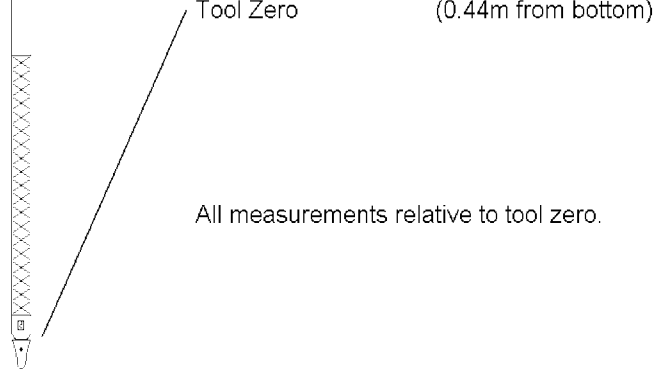
4.60 m TR21 - 3' Transit Time
4.60 m TR12 - 6' Transit Time
4.60 m TR22 - 5' Transit Time
4.60 m TR11 - 4' Transit Time

4.60 m DT35 - 3-5' Compensated Sonic

Compact Induction
MAI 39 Length: 3.29 m Weight: 48.5 lb

Pressure Bung + Hole Finder
HFS 3 Length: 0.40 m Weight: 6.6 lb

Total Length: 53.36 m Weight: 1289.7 lb



COMPANY	ESSO AUSTRALIA PTY LTD
WELL	BREAM A10A
FIELD	BREAM
PROVINCE/COUNTY	BASS STRAIT
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing		metres	First Reading	2707.80	metres
Elevation Drill Floor	32.82	metres	Depth Driller	2717.18	metres
Elevation Ground Level	-59.40	metres	Depth Logger	2212.30	metres



COMPENSATED SONIC
1:200 TVD