



COMPENSATED SONIC
1:200 TVD

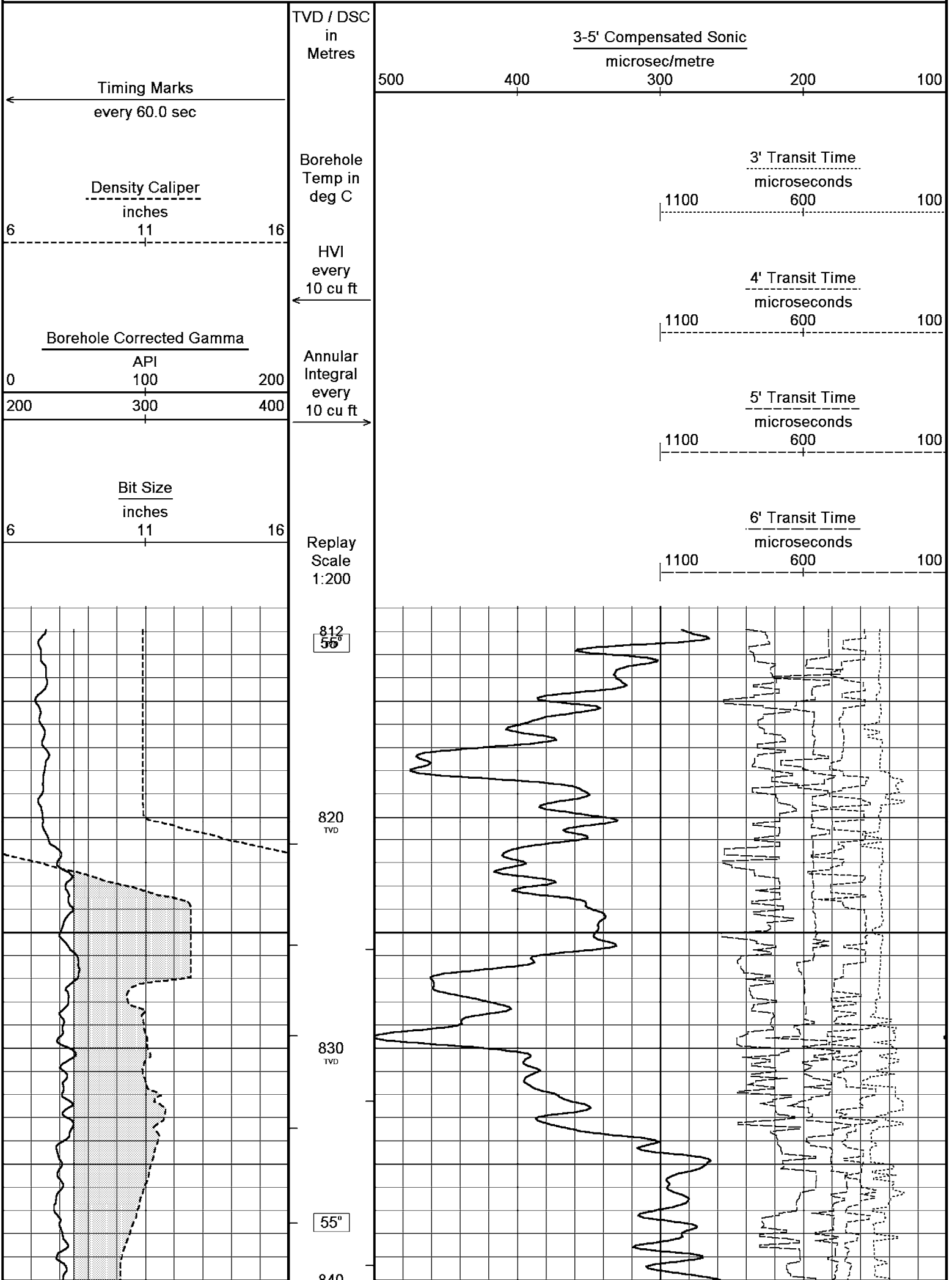
COMPANY	ESSO AUSTRILIA PTY LTD				
WELL	BREAM A5A				
FIELD	BREAM				
PROVINCE/COUNTRY	BASS STRAIT				
COUNTRY/STATE	AUSTRALIA				
LOCATION	S 38 29 58.778, E 147 46 20.334				
	N 5738461.680 m, E 567345.000 m				
	[FINAL PRINT]				
LSD	SEC	TWP	RGE	Other Services	
				DUAL LATEROLOG	
API Number				PHOTO DENSITY	
Permit Number				COMPENSATED NEUTRON	
Permanent Datum MSL				, Elevation 0.0 metres	
Log Measured From RT @ 32.82m				above Permanent Datum	
Drilling Measured From RT					Elevations: KB 32.82 metres DF 32.82 metres GL -59.40 metres
Date	16-JUN-2005				
Run Number	ONE				
Depth Driller	1994.50			metres	
Depth Logger	1991.30			metres	
First Reading	1988.60			metres	
Last Reading	853.30			metres	
Casing Driller	853.70			metres	
Casing Logger	853.30			metres	
Bit Size	8.50			inches	
Hole Fluid Type	KCI/POLY/GYL				
Density / Viscosity	10.10 lb/USg			28.00 cP	
PH / Fluid Loss	9.10			2.80 ml/30Min	
Sample Source	FLOWLINE				
Rm @ Measured Temp	0.115 @ 25.0			ohm-m	
Rmf @ Measured Temp	0.089 @ 25.0			ohm-m	
Rmc @ Measured Temp	0.181 @ 25.0			ohm-m	
Source Rmf / Rmc	PRESS			PRESS	
Rm @ BHT	0.052 @ 83.0			ohm-m	
Time Since Circulation	27 HOURS				
Max Recorded Temp	83.00			deg C	
Equipment Name	CWS/CML				
Equipment / Base	1			SALE	
Recorded By	R. TENCH, B. MOSS				
Witnessed By	TREVOR LOBO				
CIRC STOPPED	16:30 15-Jun				

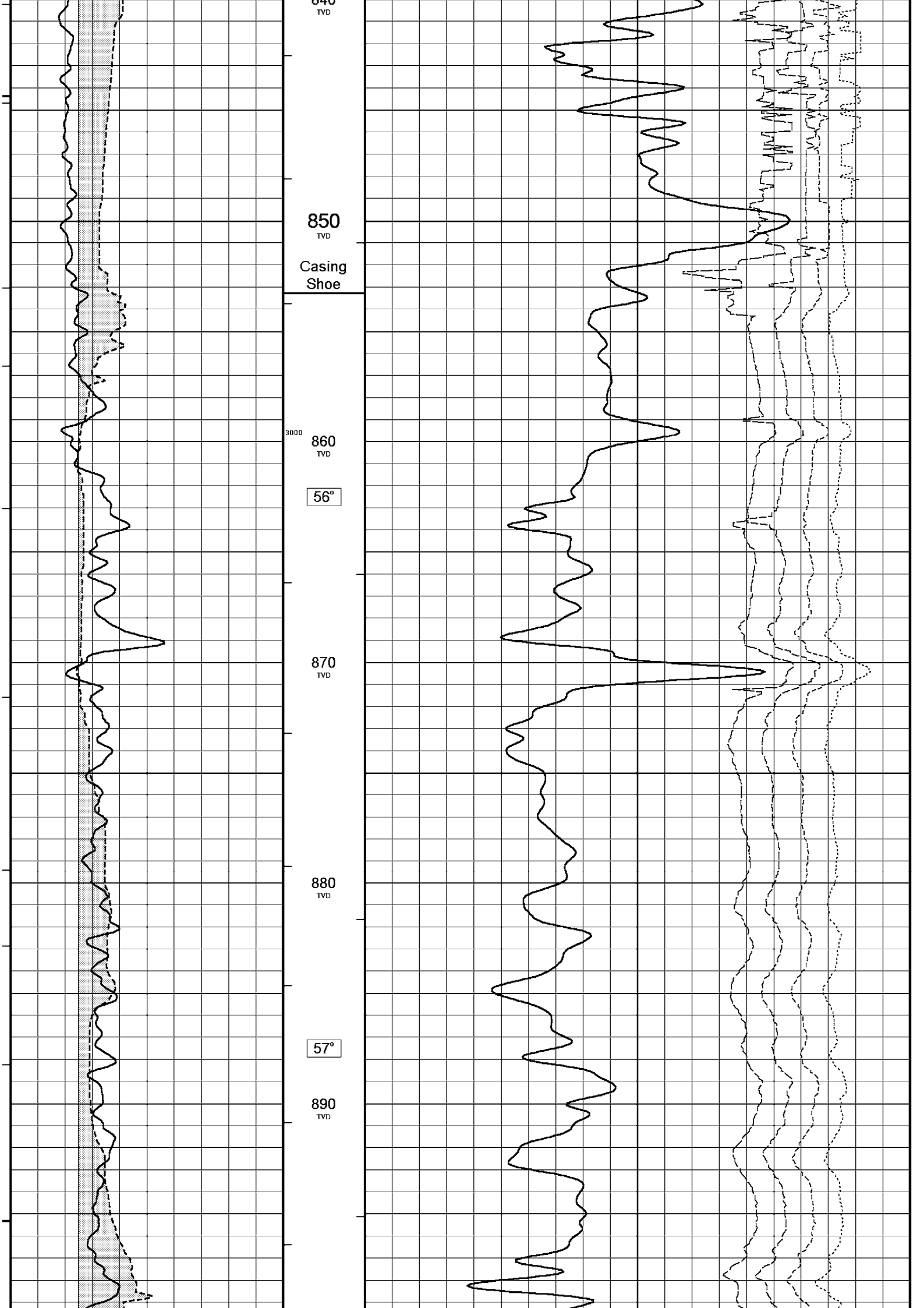
BOREHOLE RECORD		
Bit Size inches	Depth From metres	Depth To metres
8.500	895.00	2810.00

CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	13.375	0.00	895.00	54.50

REMARKS
RIG: NABORS 453
5" SHUTTLE/MEMORY COMPACT OPERATION. CREW: R TENCH , B MOSS , B GOODWIN, K LUCIEER.
ALL LOGS DEPTH CORRELATED TO ANADRILL GAMMA LOG.
DURING TRIP IN, DRILL PIPE BRIDGED AT 2071m, REQUIRED 30RPM AND 10BLS FLOW TO REACH TD
MAX. TEMPERATURE: 83 DEG C AT 2763m MD MAX. INCLINATION: 58.40 DEG AT 2810.0m MD MAX. DOGLEG SERVERITY: 6.21 DEG/30m AT 1160.6m MD DEPLOYMENT ANGLE: 58 DEG
HVOL: 3000 FT^3 AVOL: 1330 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.





840
TVD

850
TVD

Casing
Shoe

3000
860
TVD

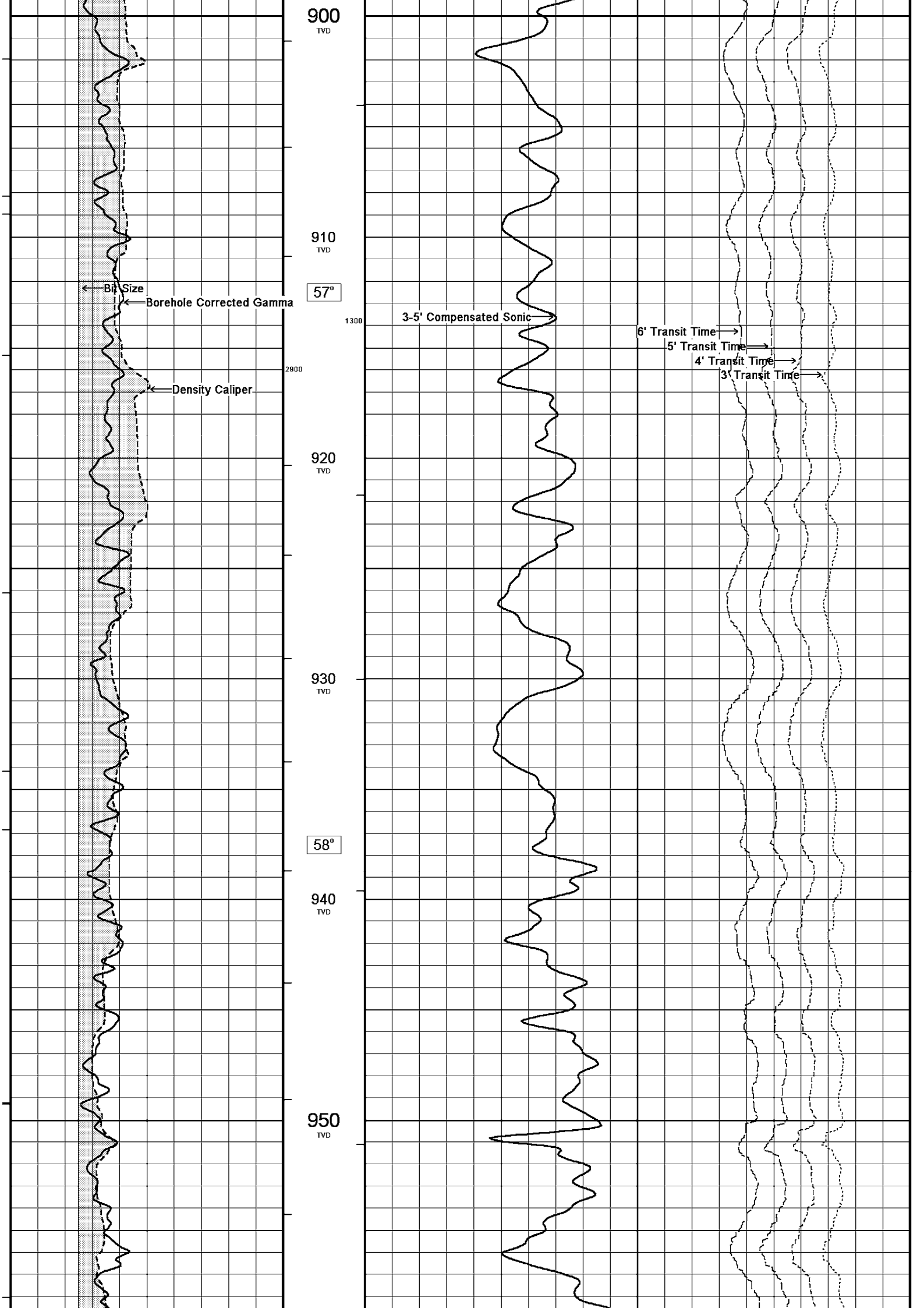
56°

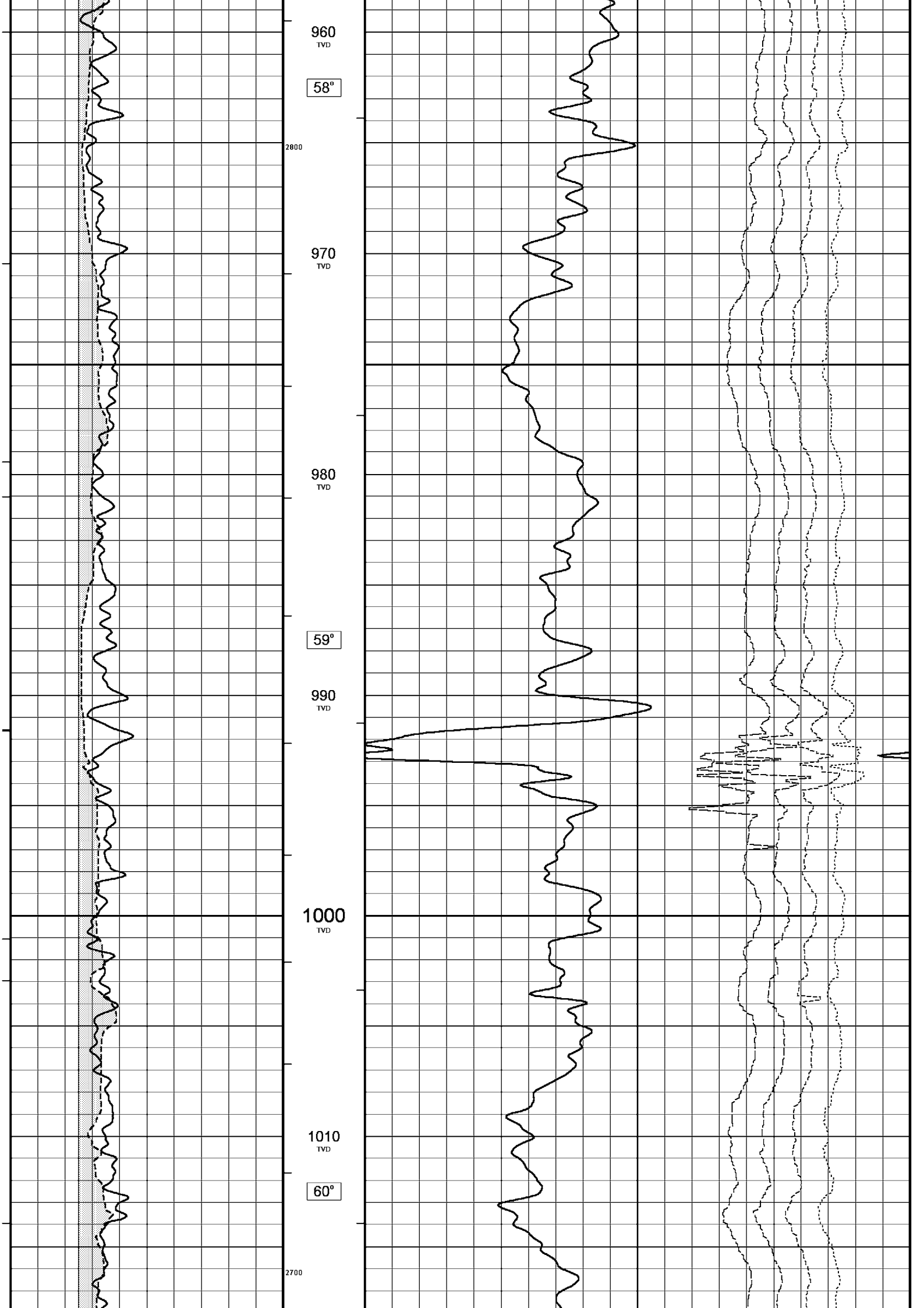
870
TVD

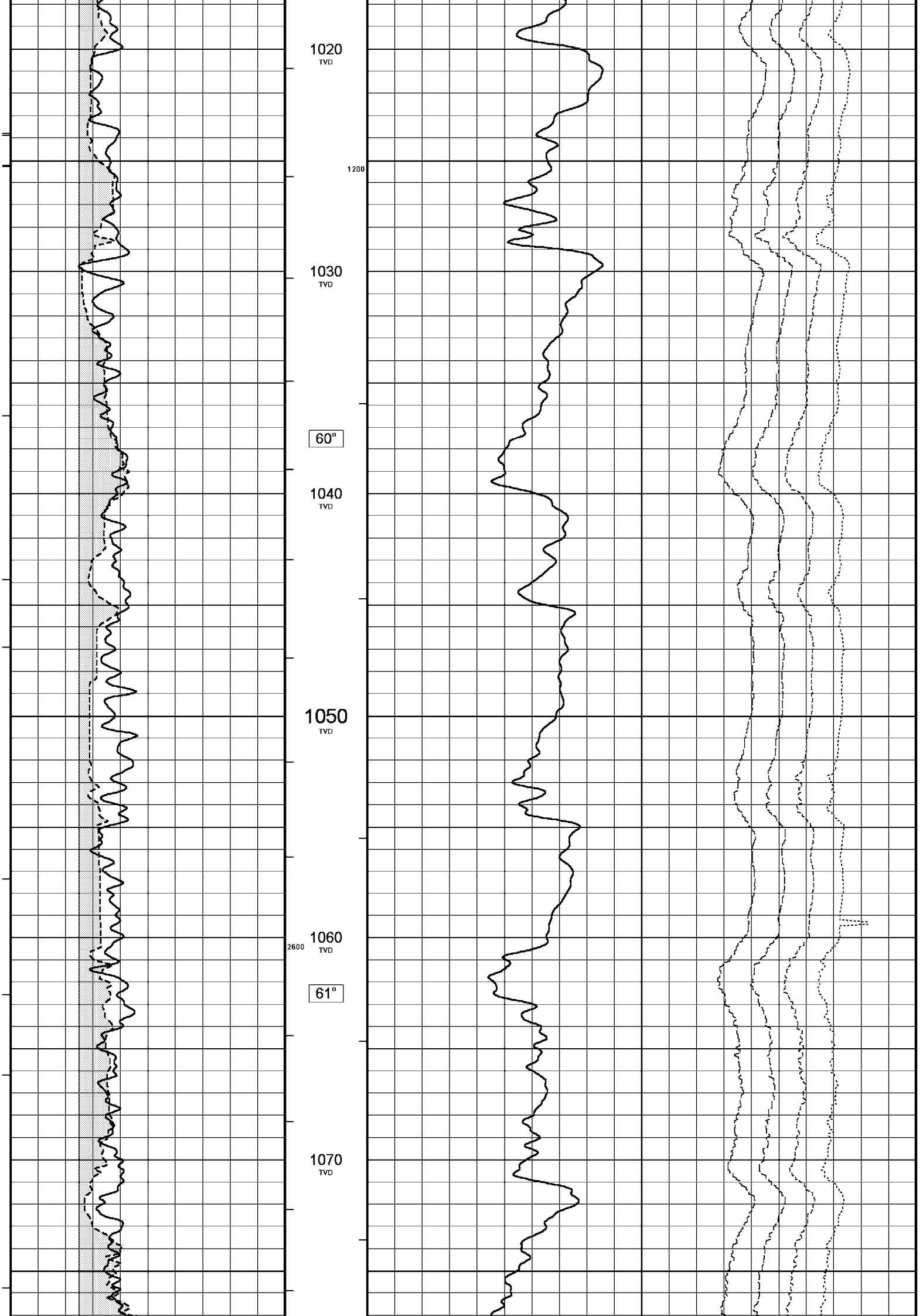
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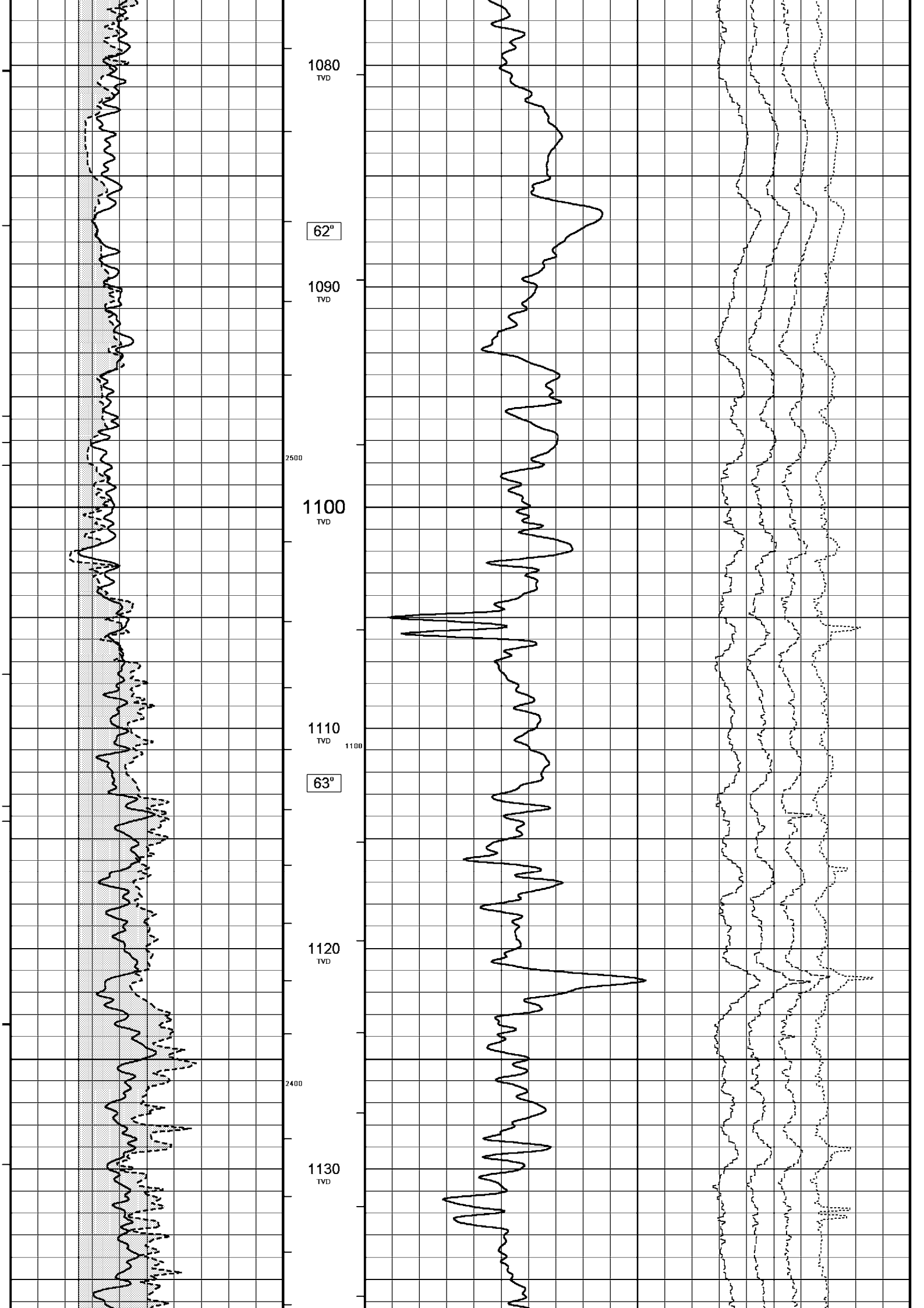
57°

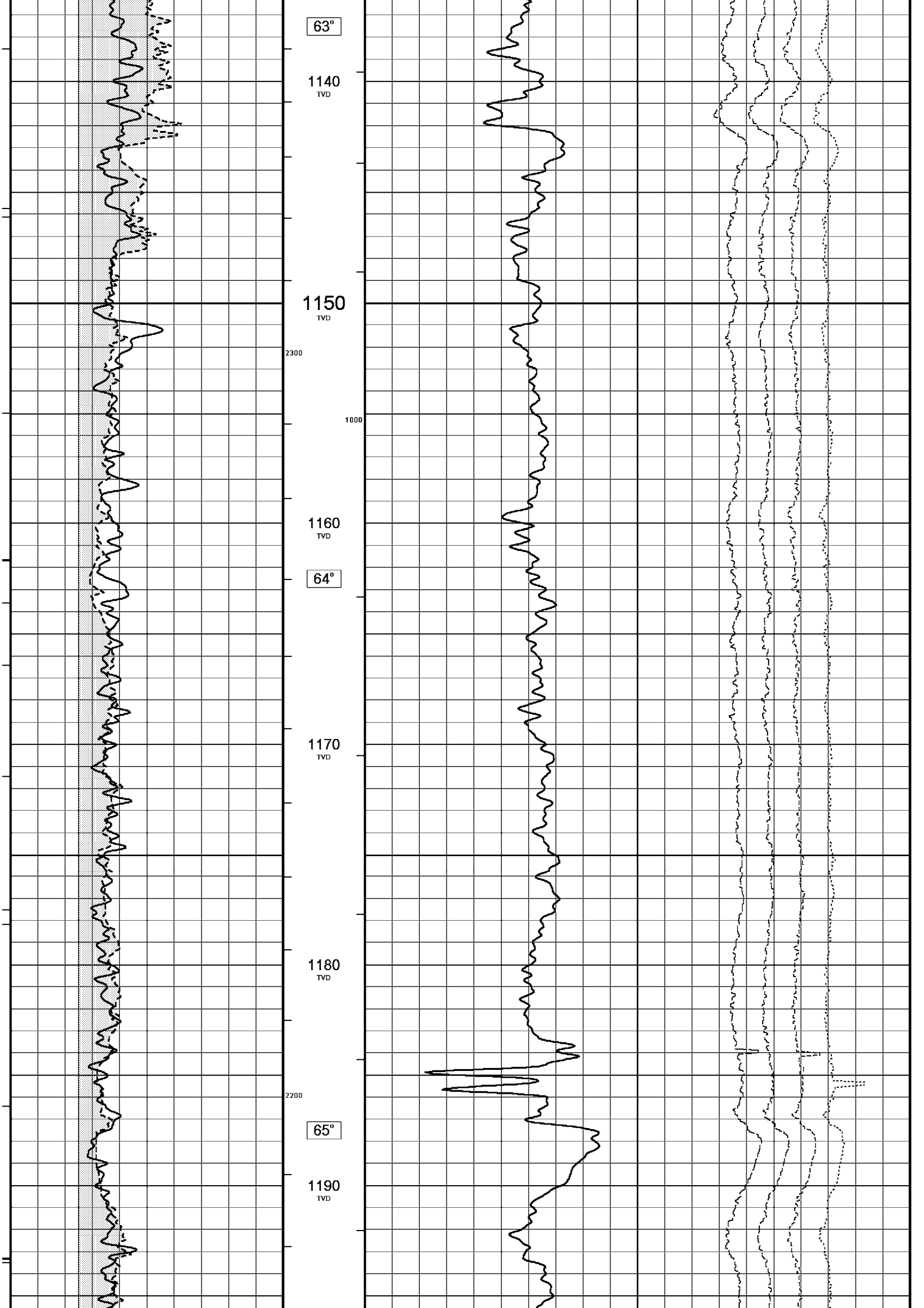
890
TVD

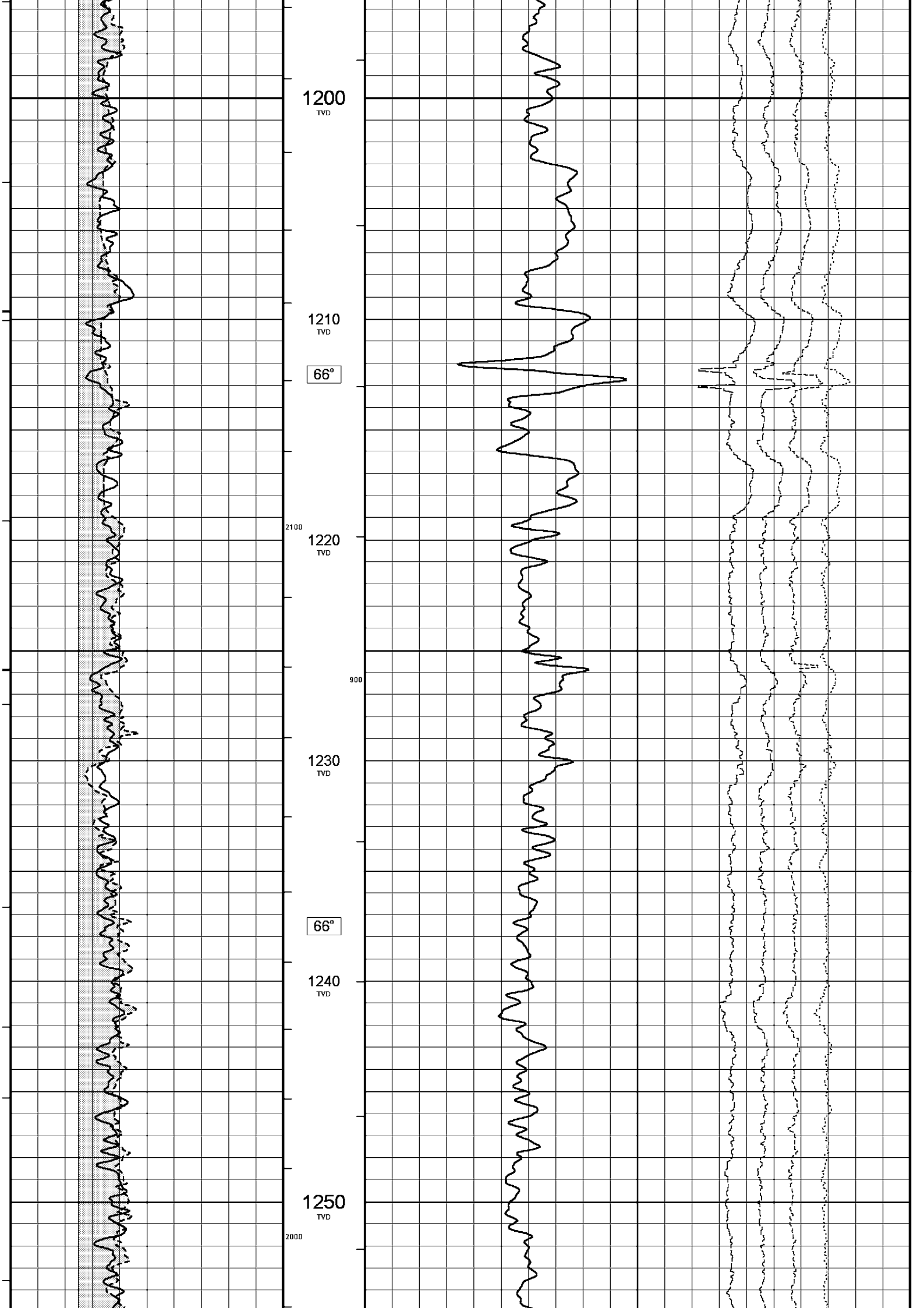


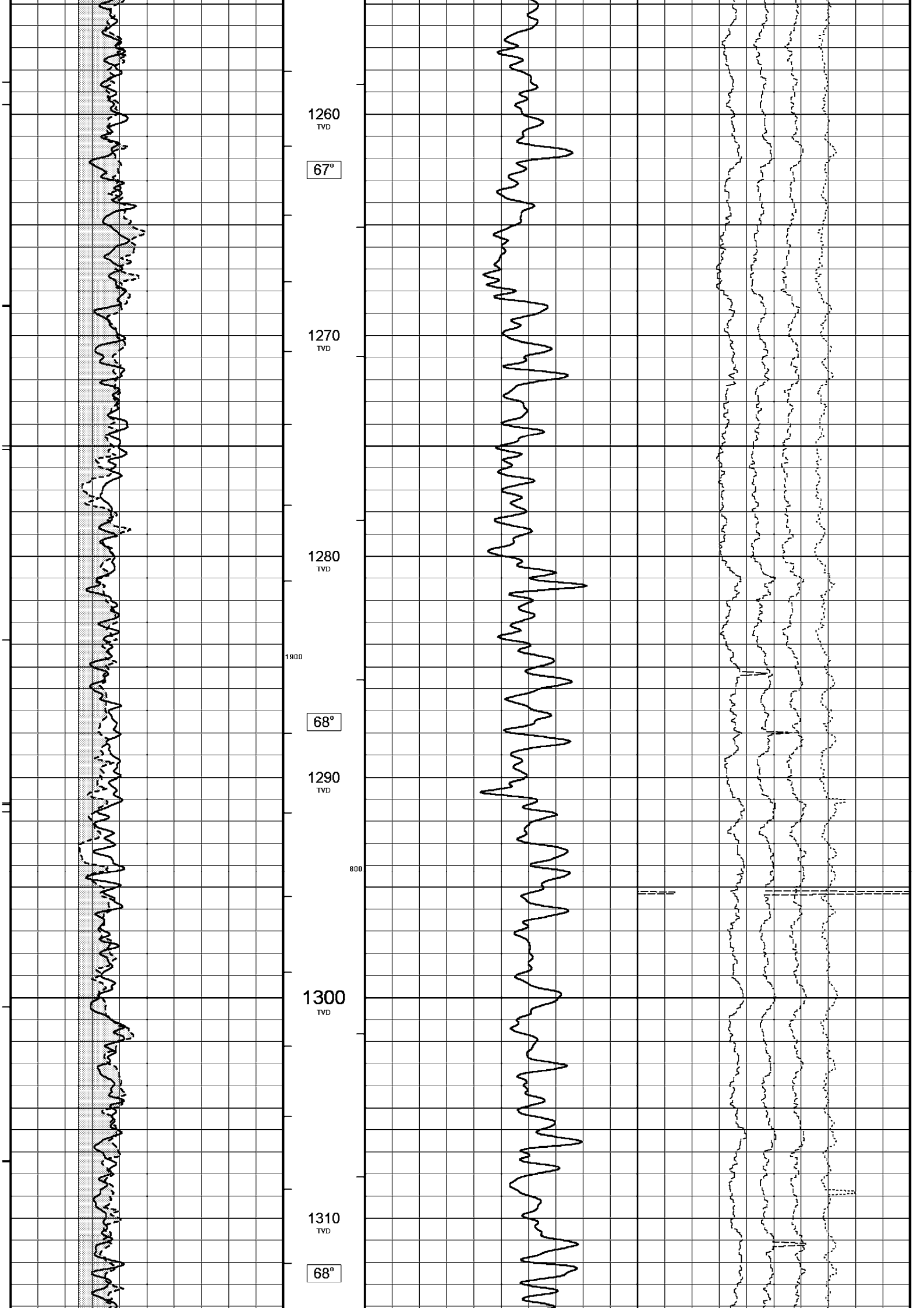


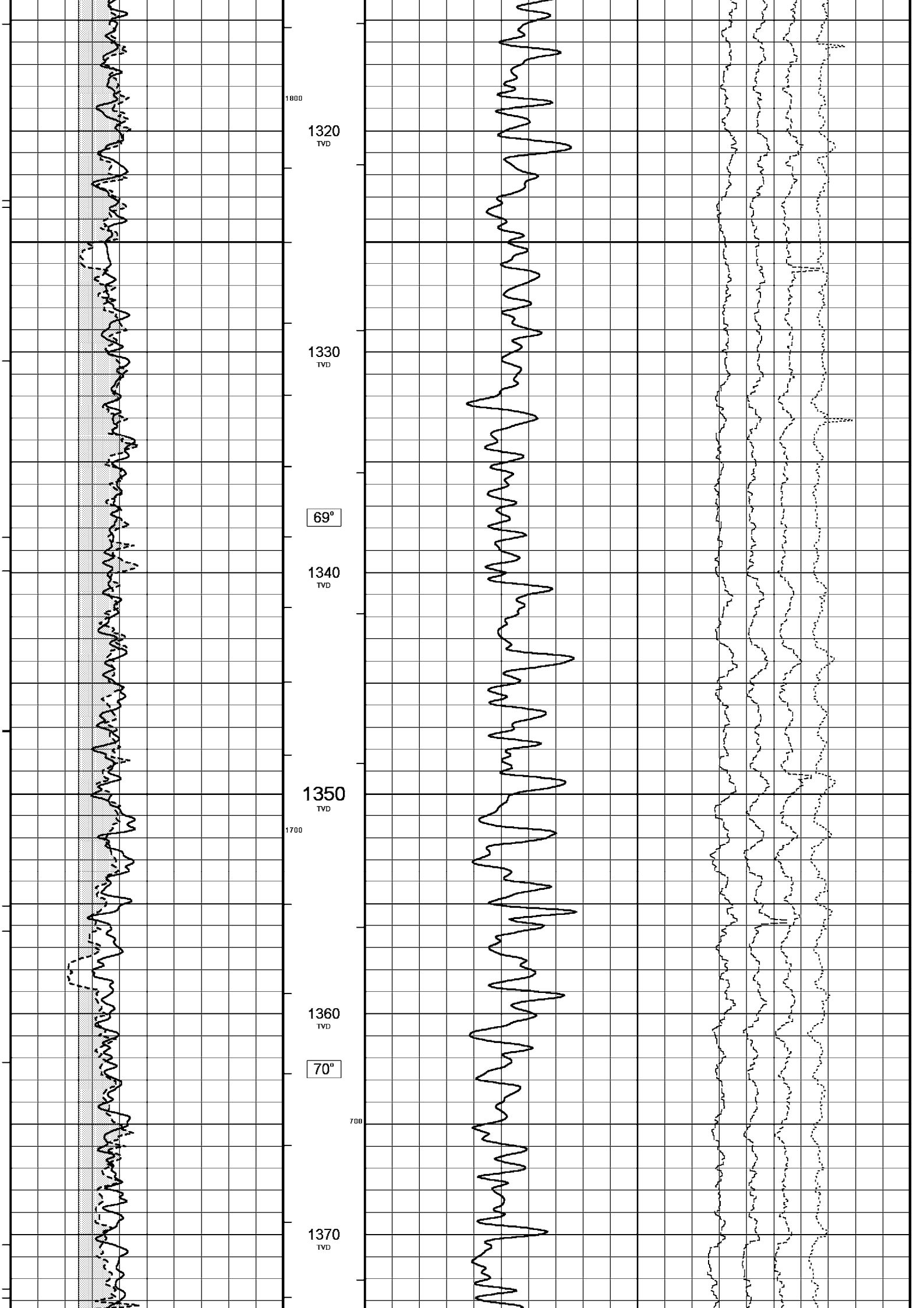


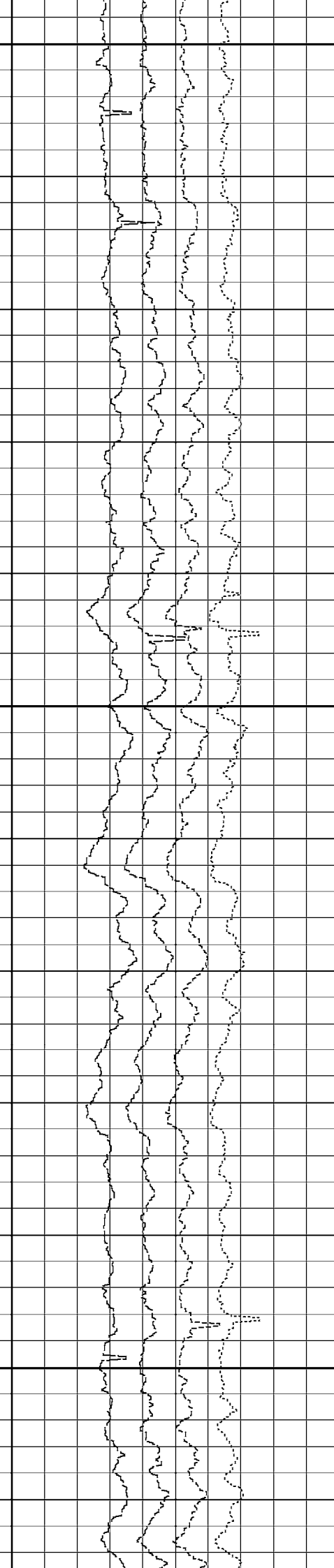
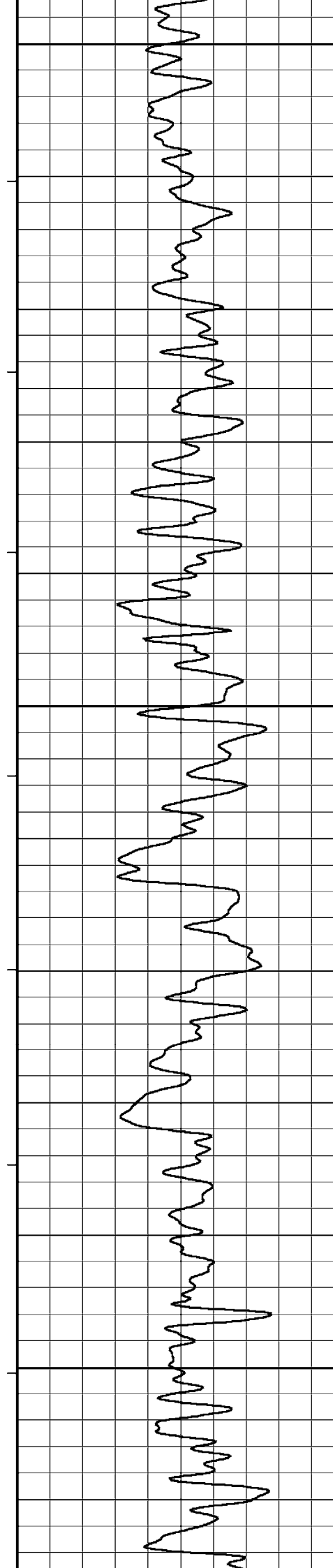
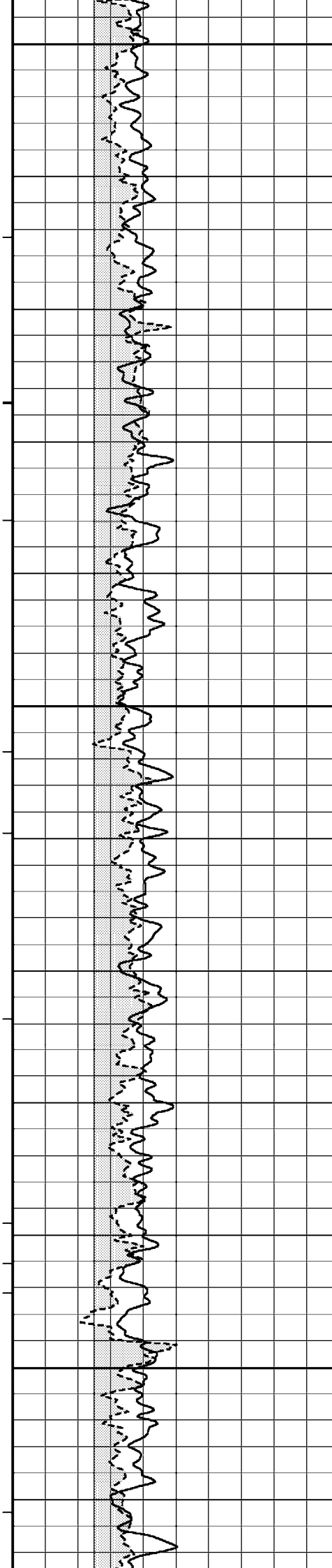












1380
TVD

1600

70°

1390
TVD

1400
TVD

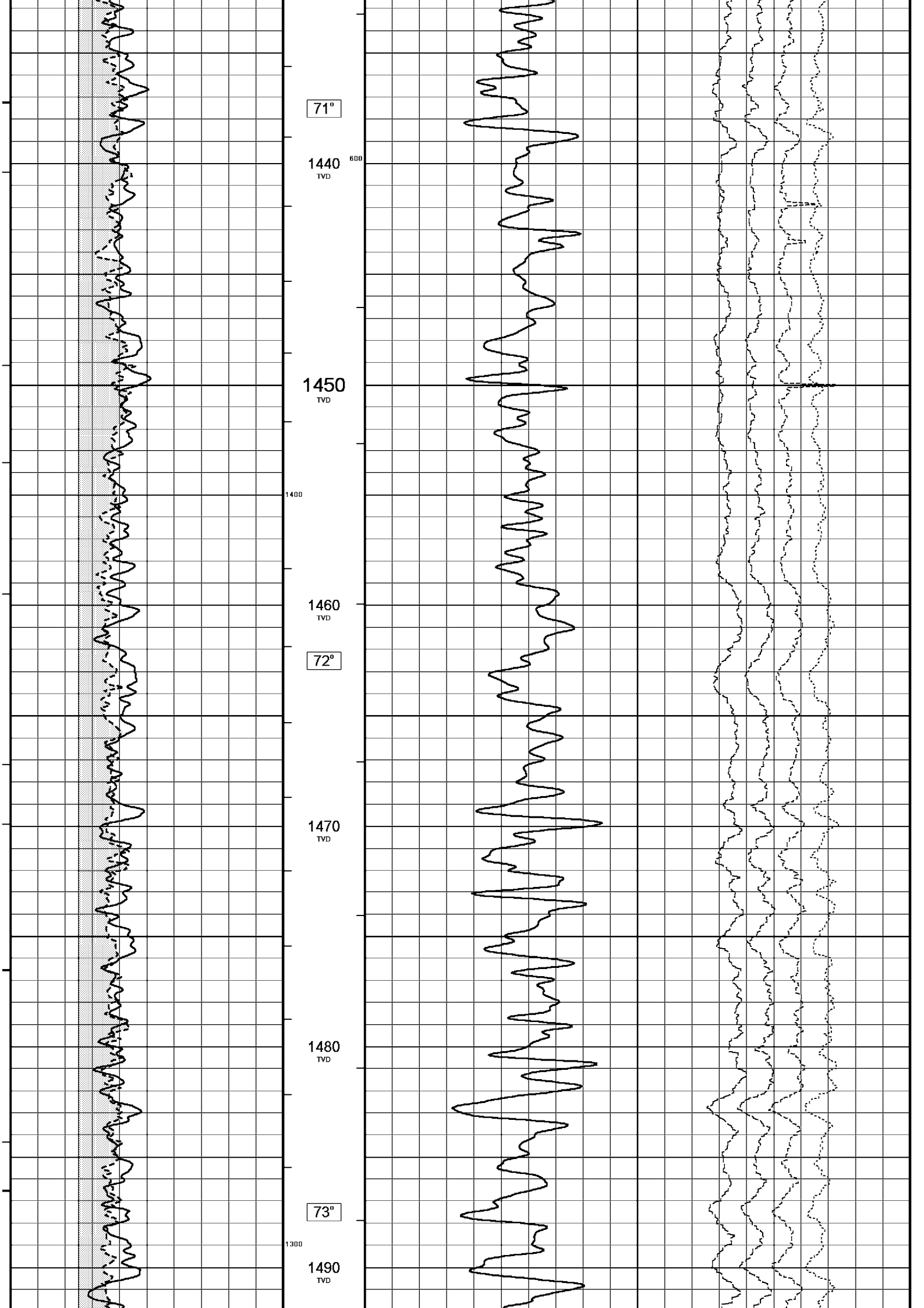
1410
TVD

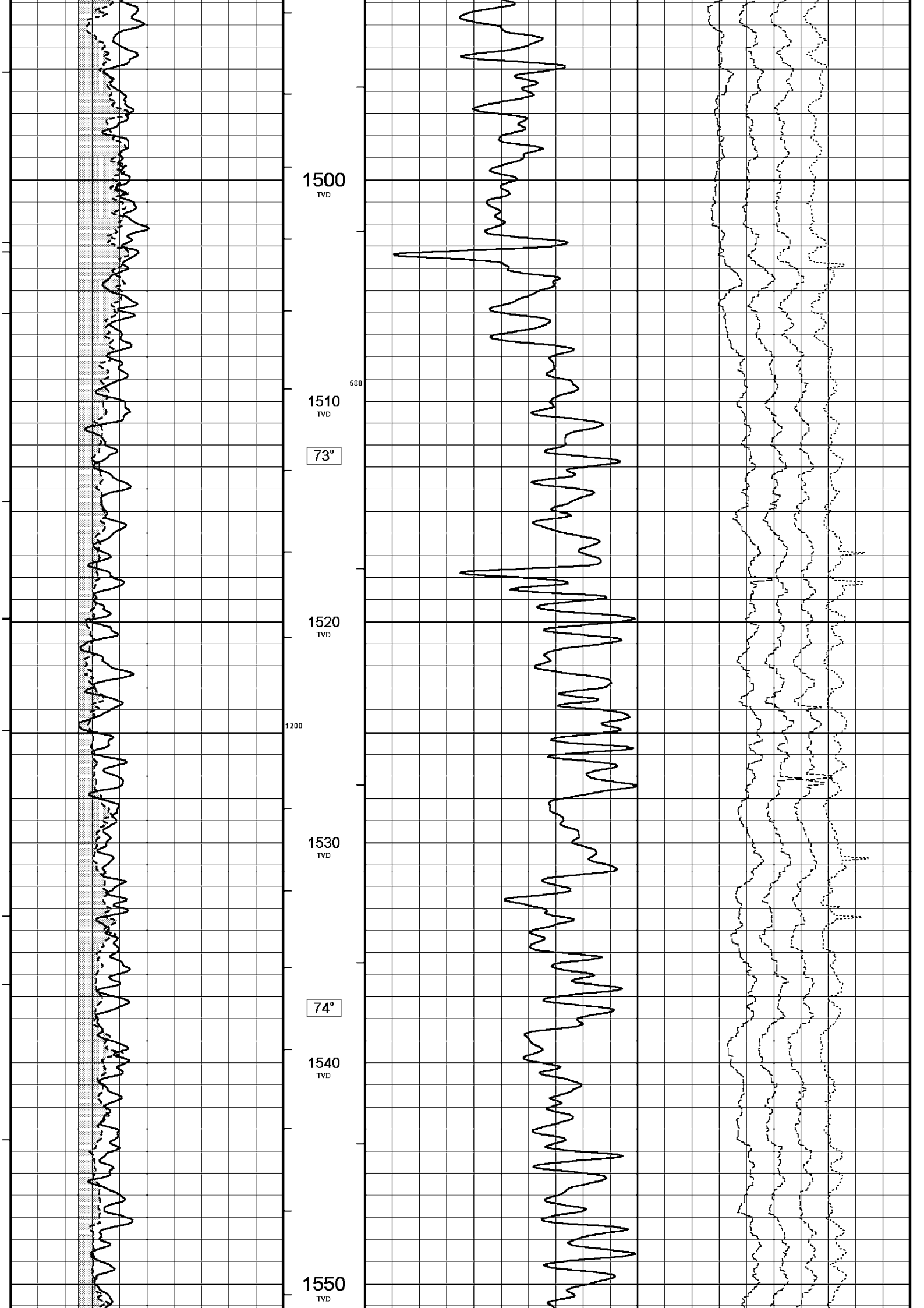
71°

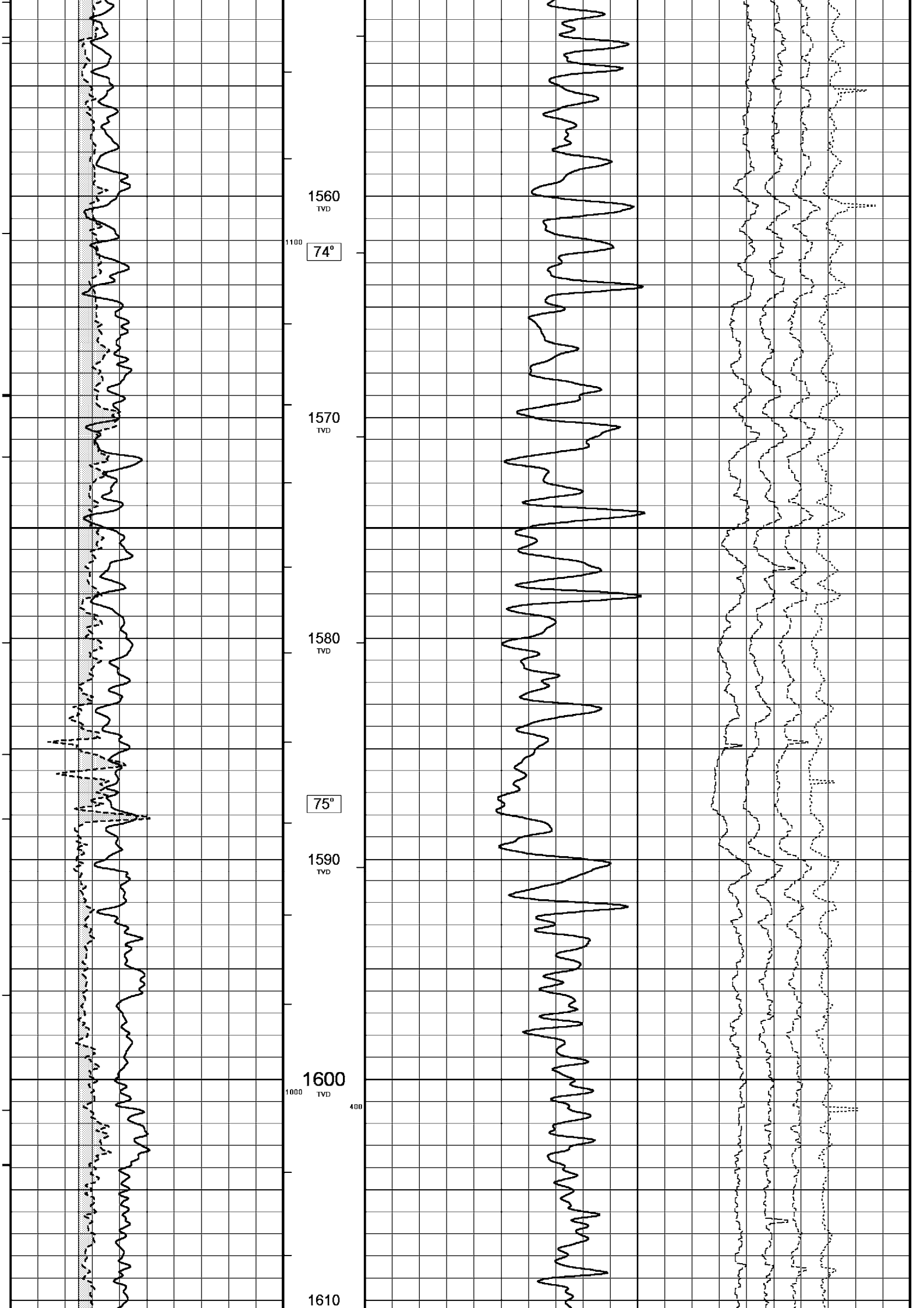
1420
TVD

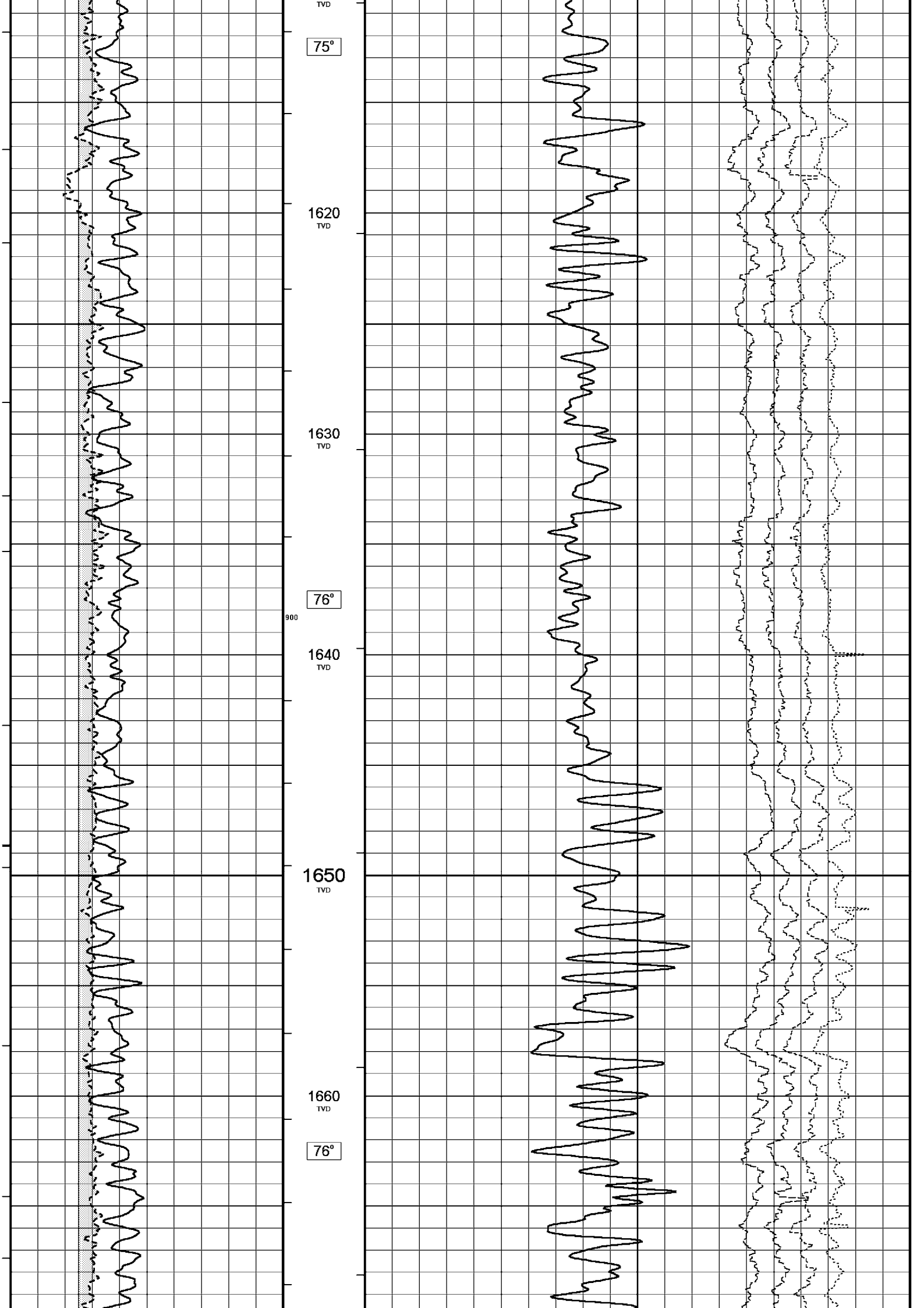
1500

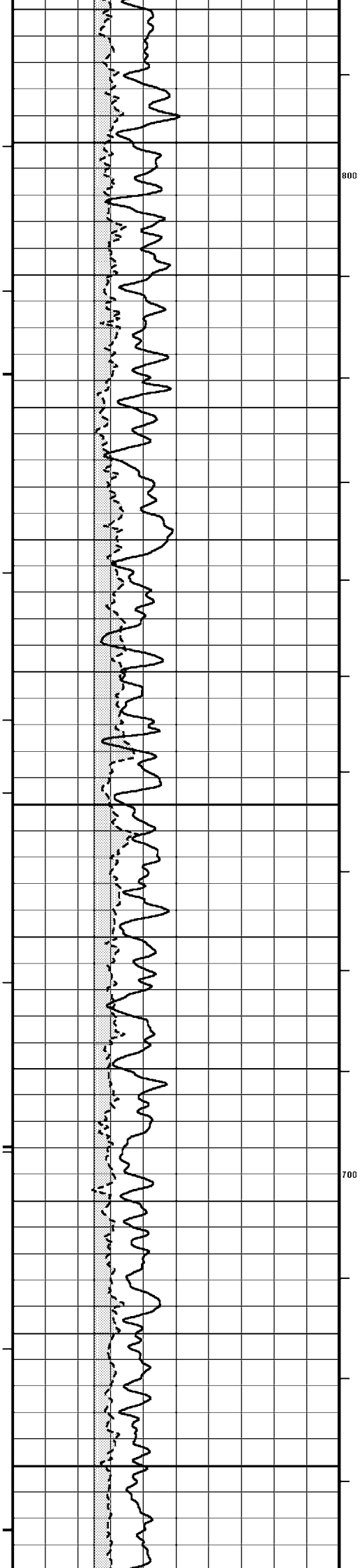
1430
TVD











1670
TVD

800

1680
TVD

76°

1690
TVD

300

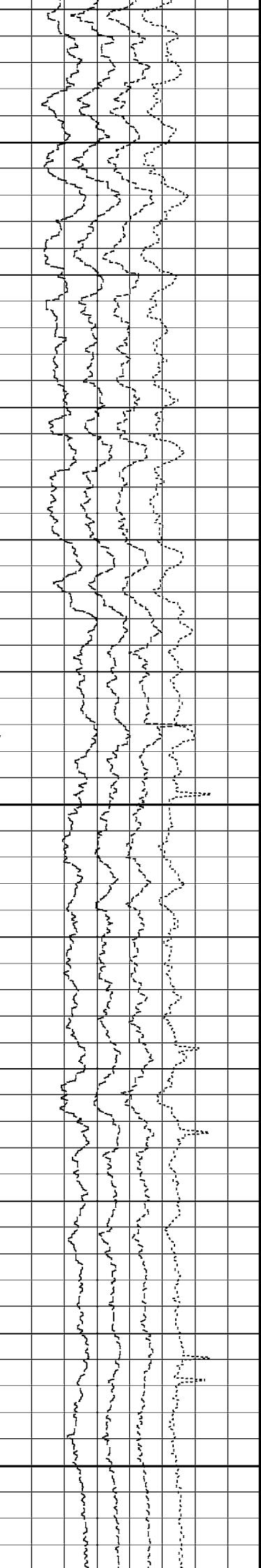
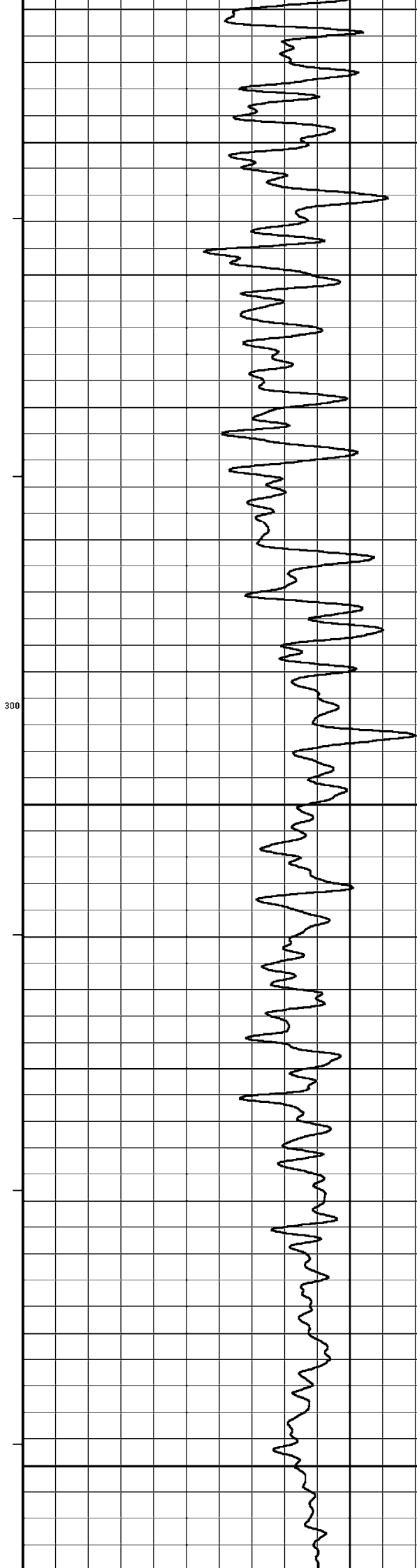
1700
TVD

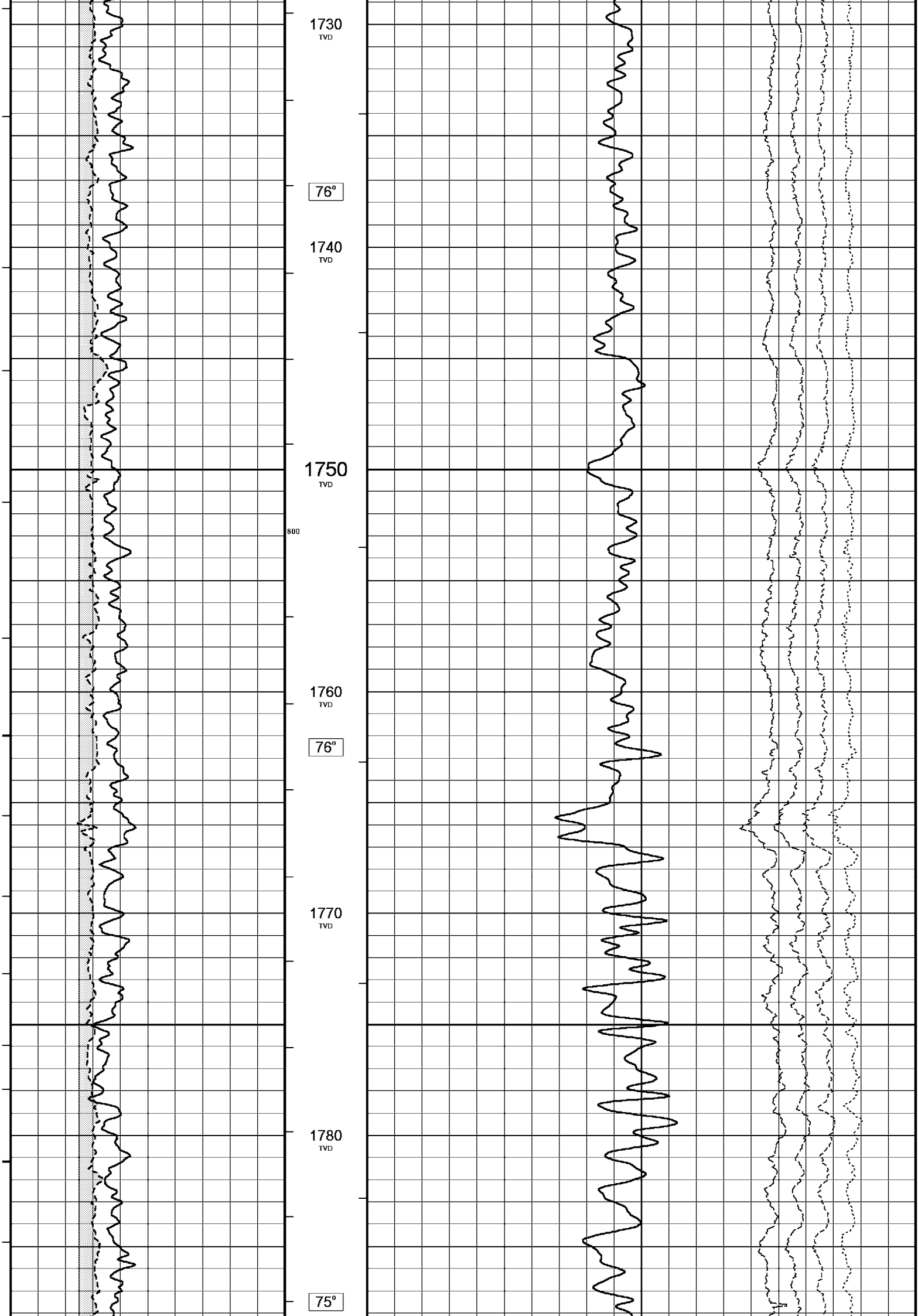
1710
TVD

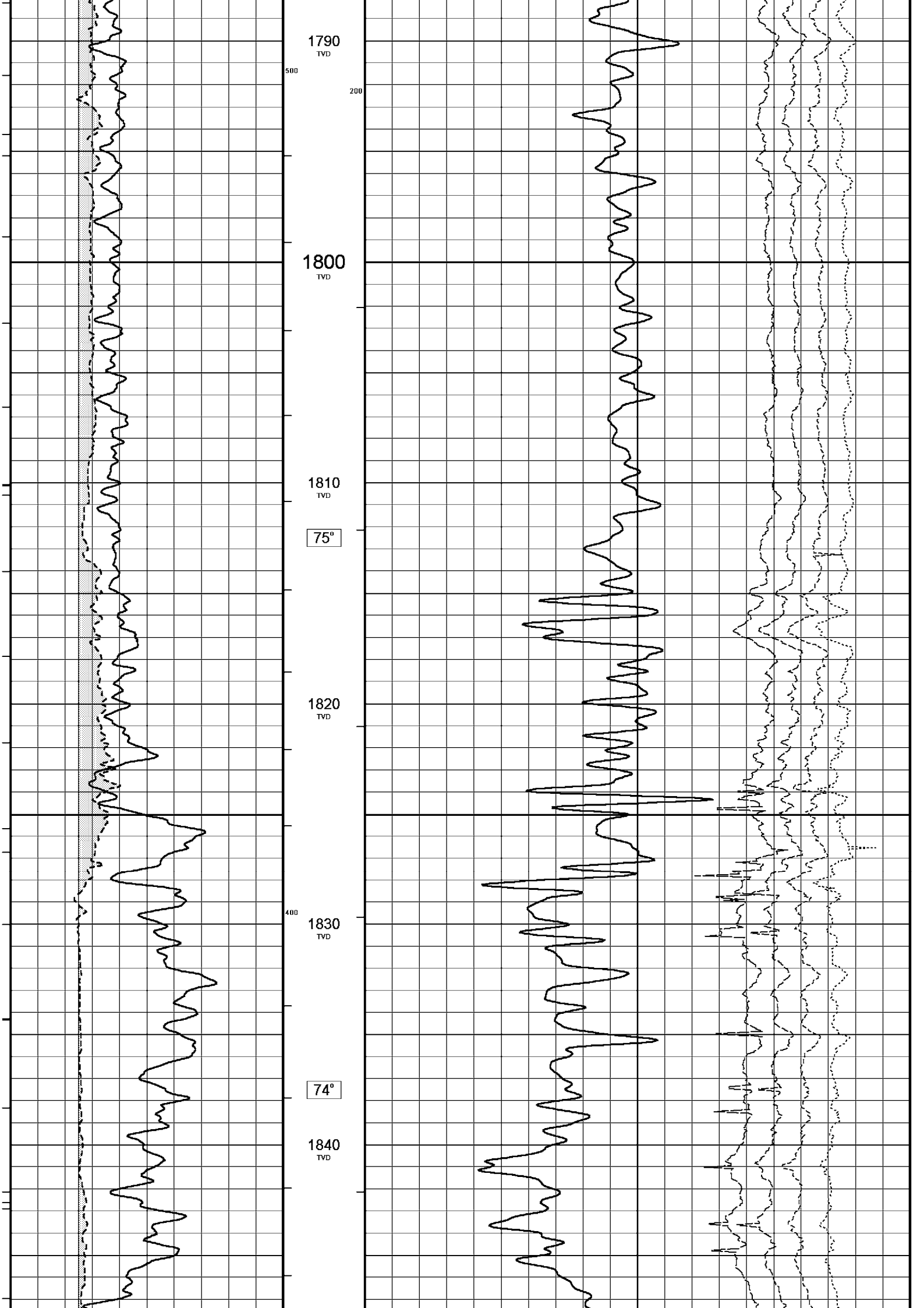
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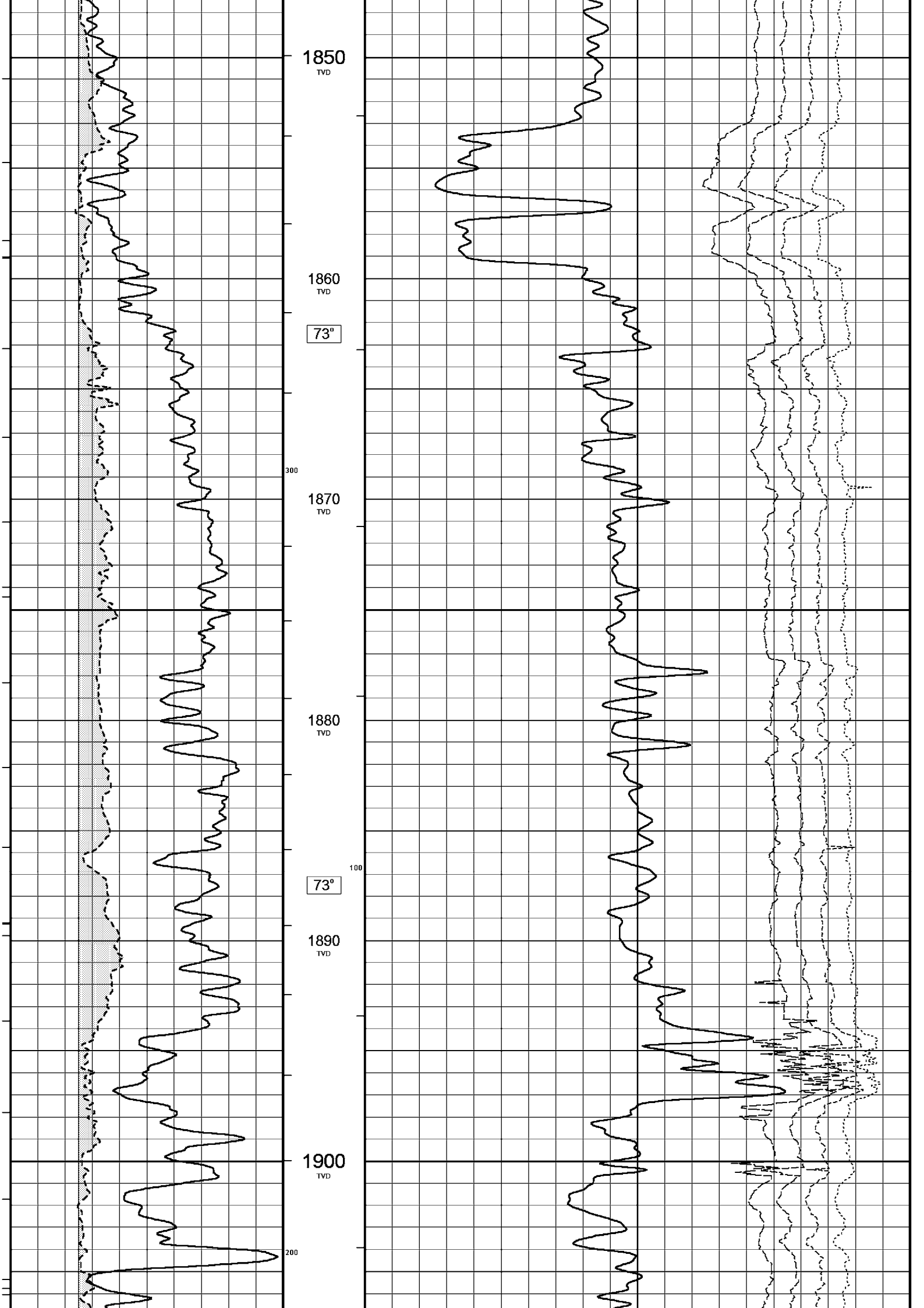
700

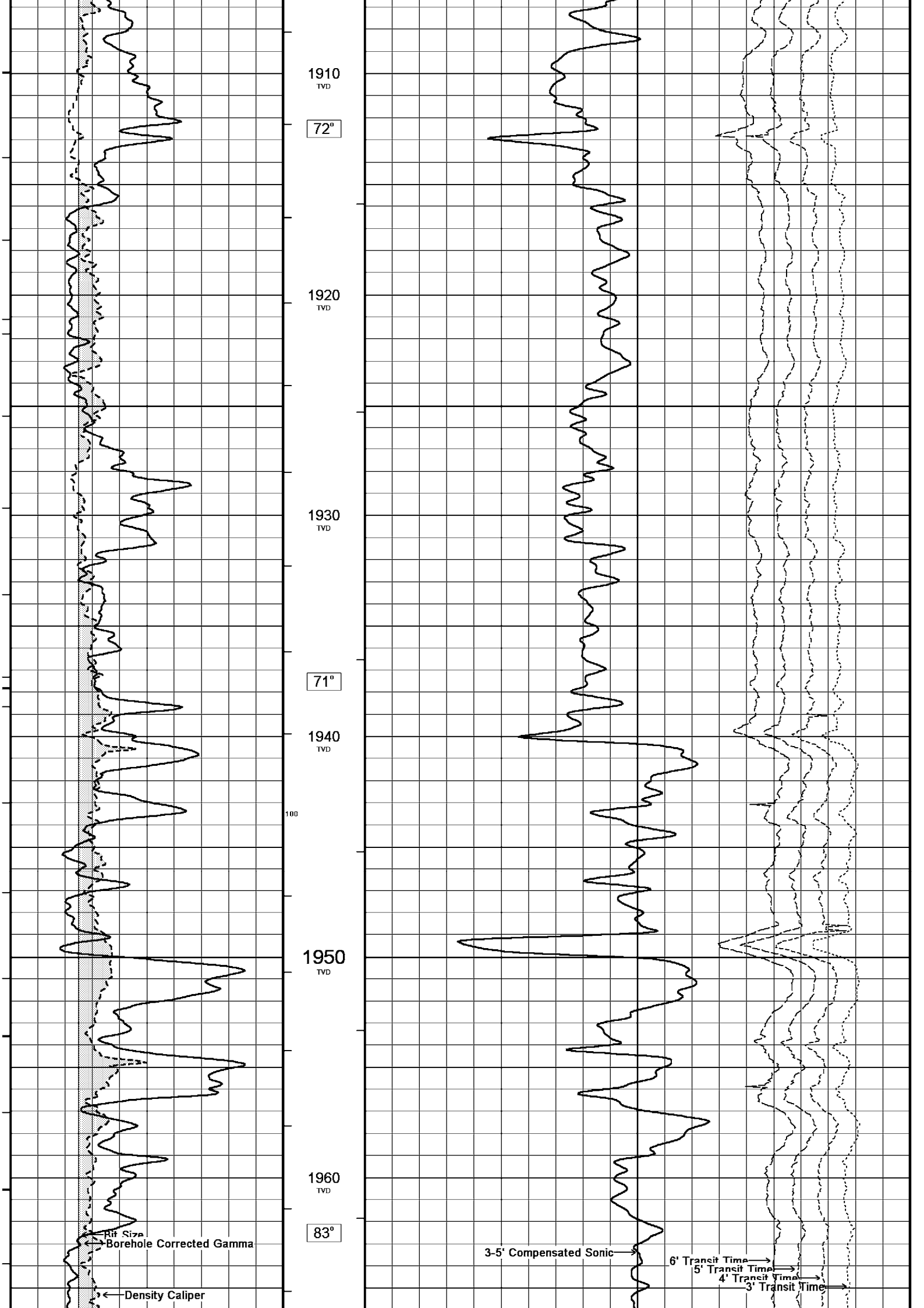
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TVD

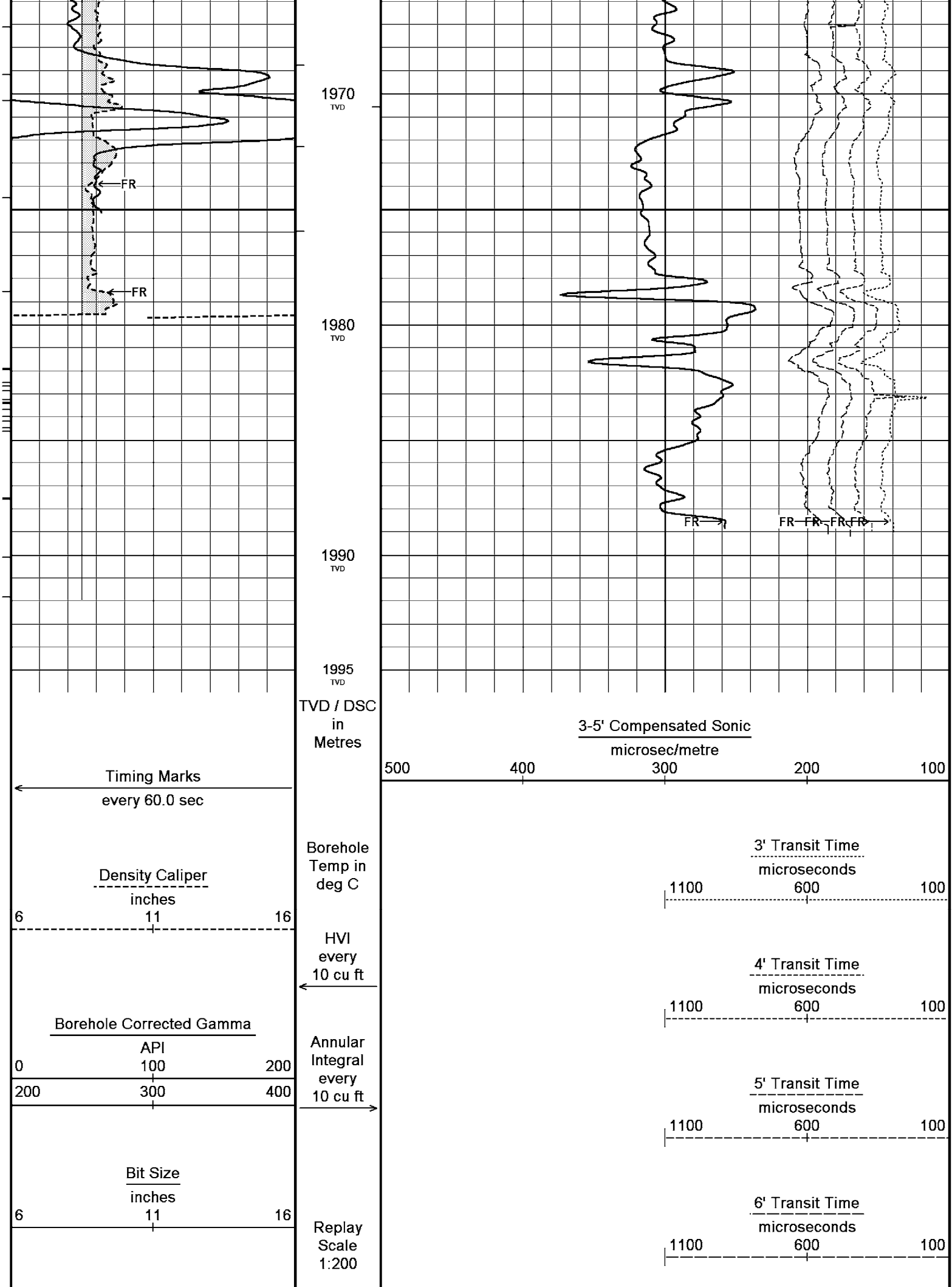














BEFORE SURVEY CALIBRATION

C:\BMA_A5A\FINAL DATA\BMA_A5A_MAIN_LOG_MSS.dta

General Constants All 000

General Parameters

Mud Resistivity	0.115	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 15-JUN-2005,19:09

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

High Resolution Temperature Constants MCG 098

Pre-filter Length	11
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Gamma Calibration MCG 098

Field Calibration on 15-JUN-2005 19:08

	Measured	Calibrated (API)
Background	12	8
Calibrator (Gross)	1353	917
Calibrator (Net)	1341	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 8-JUN-2005,17:33

Field Calibration on 15-JUN-2005 17:39

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	13504	4.01
2	21630	5.99
3	30082	7.98
4	38559	9.94
5	48000	12.01
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
8.00	7.99

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

N/A	micro-sec
N/A	micro-sec

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

Gate Start	N/A	micro-sec
Gate Width	N/A	micro-sec
Initial Discriminator Level	0.0000	mVolts

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

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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: 30.9 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: 22.0 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

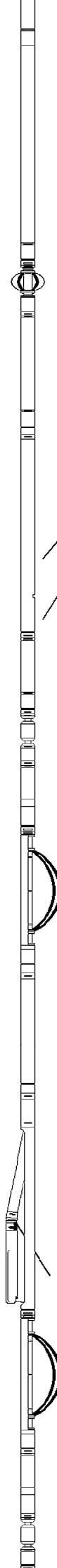
Compact Density/Caliper
MPD 83 Length: 2.92 m Weight: 90.4 lb

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

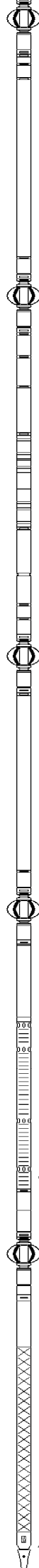
Compact Sonic
MSS 66 Length: 3.82 m Weight: 72.8 lb

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

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

Induction Standoff
HFS 4 Length: 0.40 m Weight: 6.6 lb

Total Length: 53.36 m Weight: 1223.6 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

Tool Zero (0.44m from bottom)

All measurements relative to tool zero.

COMPANY	ESSO AUSTRLIA PTY LTD			
WELL	BREAM A5A			
FIELD	BREAM			
PROVINCE/COUNTY	BASS STRAIT			
COUNTRY/STATE	AUSTRALIA			

Elevation Kelly Bushing		metres	First Reading	1988.60	metres
Elevation Drill Floor	32.82	metres	Depth Driller	1994.50	metres
Elevation Ground Level	-59.40	metres	Depth Logger	1991.30	metres



COMPENSATED SONIC

1:200 TVD