



## CEMENT BOND LOG

Mesa Wireline LLC

Company		ANTERO RESOURCES PICEANCE CORP.	
Well		McLIN C 24	
Field		MAMM CREEK	
County		GARFIELD	
State		COLORADO	
Location:		API # : 06-045-20133-0000	
Permanent Datum		SHL: 1896' FSL & 196' FEL	
Log Measured From		SEC. 13 TWP. 06S RGE. 92W	
Drilling Measured From		GROUND LEVEL Elevation 5725'	
		KELLY BUSHING = 24 FT	
		KELLY BUSHING	
		Elevation	
		K.B. 5749'	
		D.F. 5748'	
		G.L. 5725'	
Date		13 JUN 2012	
Run Number		ONE	
Depth Driller		7329'	
Depth Logger		7283'	
Bottom Logged Interval		7283'	
Top Log Interval		SURFACE	
Open Hole Size		7.875"	
Type Fluid		WATER	
Density / Viscosity		~8.34#/GAL	
Max. Recorded Temp.		211 DEG F	
Estimated Cement Top		1970'	
Time Well Ready		N/A	
Time Logger on Bottom		0830	
Equipment Number		FL0802	
Location		GRAND JUNCTION	
Recorded By		M. BERNATCHEZ	
Witnessed By		L. GARDNER	
Run Number		ONE	
Bit		SURFACE	
From		80'	
To		1000'	
Size		60"	
Weight		7329'	
From			
To			
Run Number		TWO	
Bit		SURFACE	
From		80'	
To		1000'	
Size		60"	
Weight		7329'	
From			
To			
Run Number		THREE	
Bit		SURFACE	
From		80'	
To		1000'	
Size		60"	
Weight		7329'	
From			
To			
Casing Record		Size	
Surface String		8.625"	
Prot. String		24.0"	
Production String		4.5"	
Liner		11.6#	
		SURFACE	
		7329'	

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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 interpretation, and we shall not, except in the case of gross or willful 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 set out in our current Price Schedule.

### Comments

LOG CORRELATED TO WEATHERFORD TRIPLE COMBO DATED 29-MAY-2012.

SHORT JOINTS: 3765' - 3788' & 5291' - 5314' & 5617' - 5649'

WE APPRECIATE YOUR BUSINESS, MESA WIRELINE LLC, GRAND JUNCTION CO. (970) 257-04



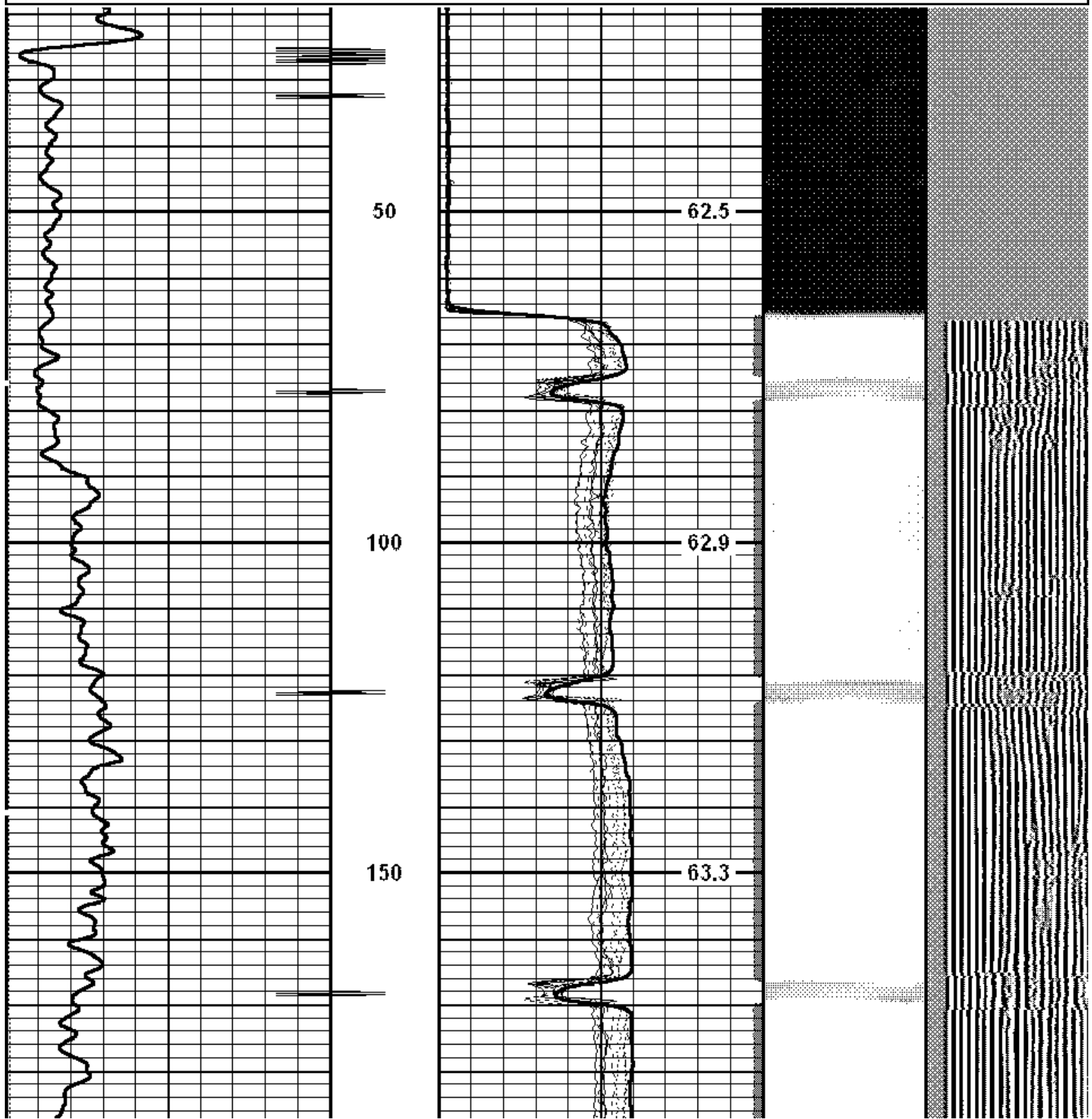
MAIN LOG PASS

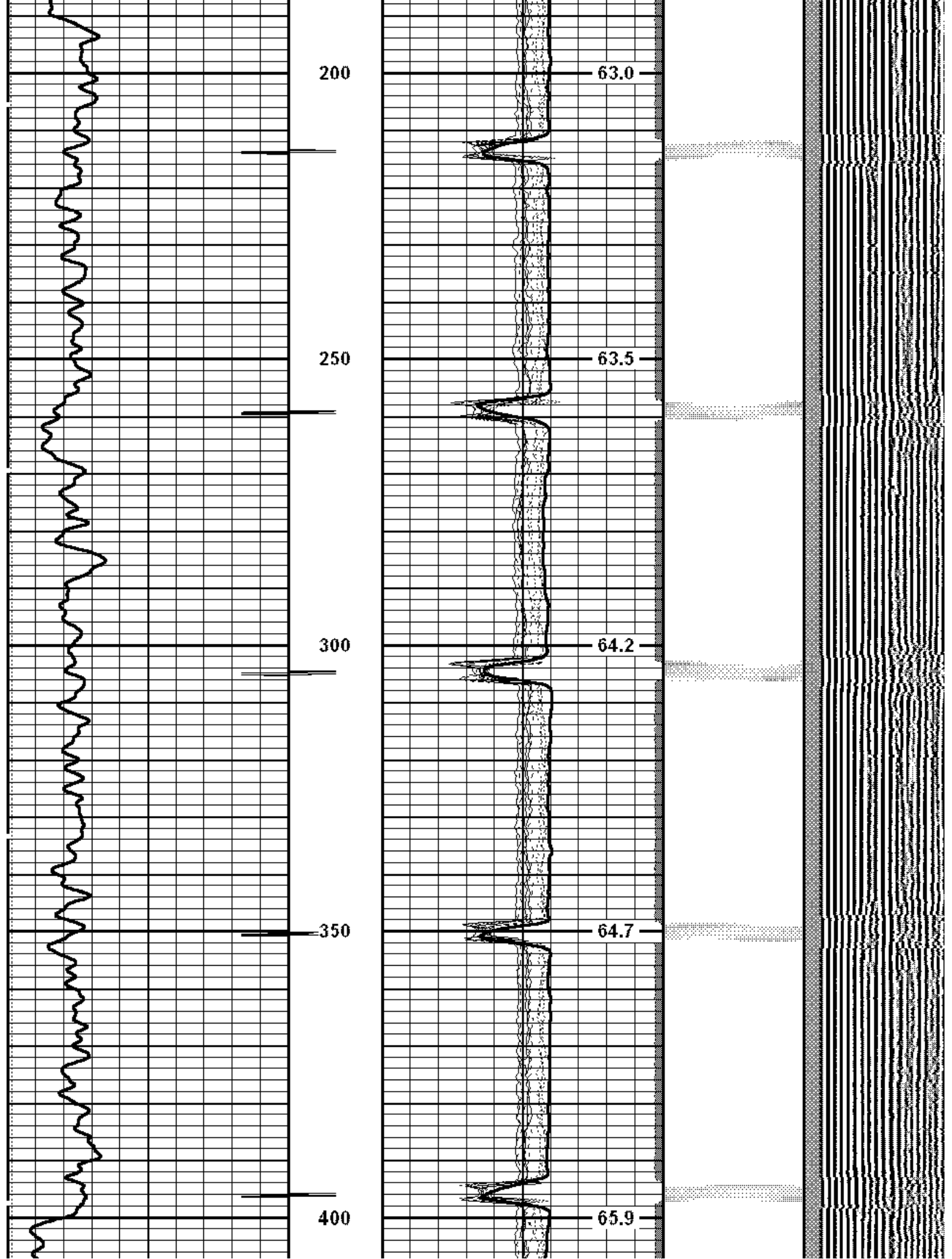
SCALE 5" = 100'

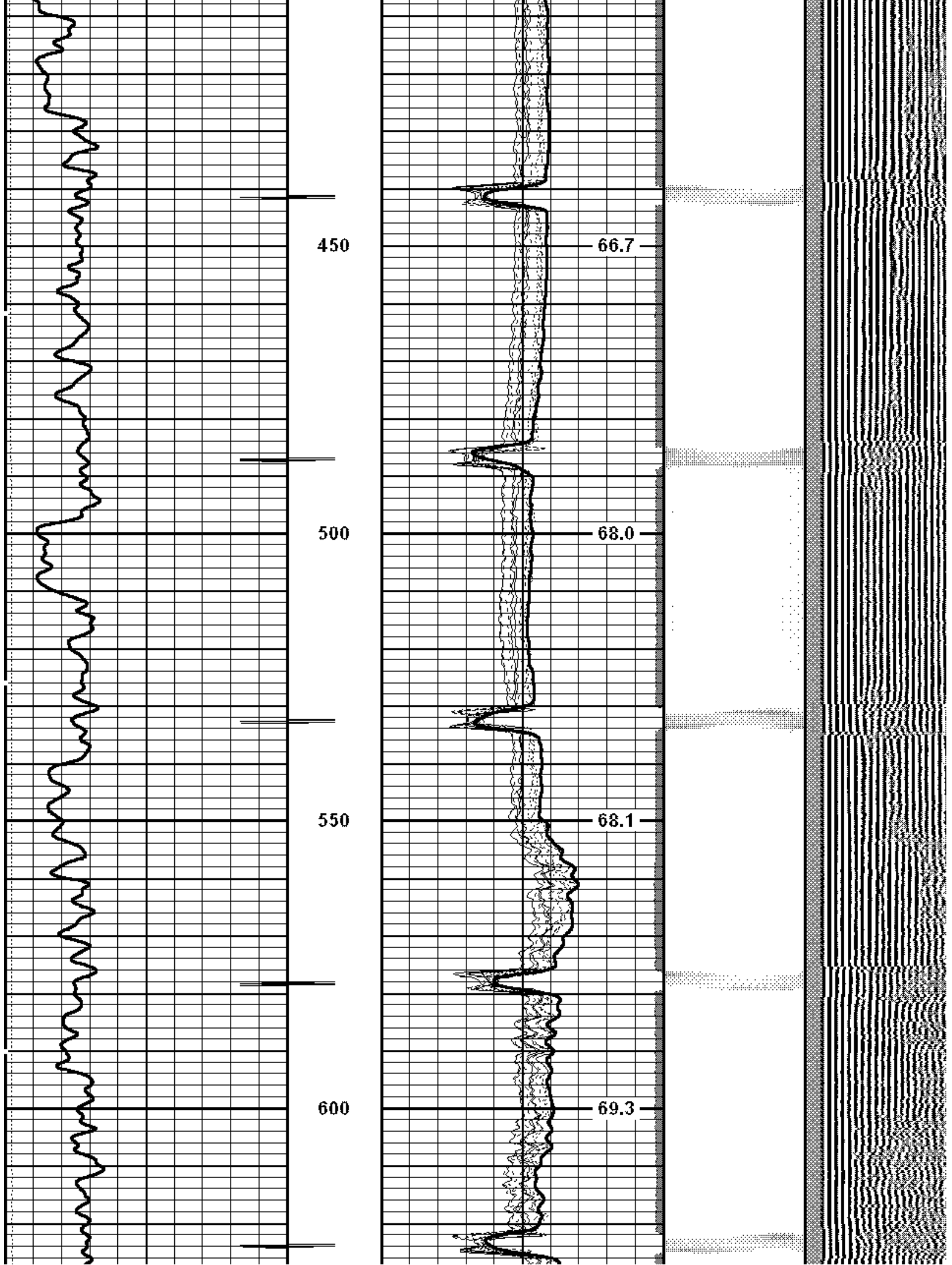
# Mesa Wireline

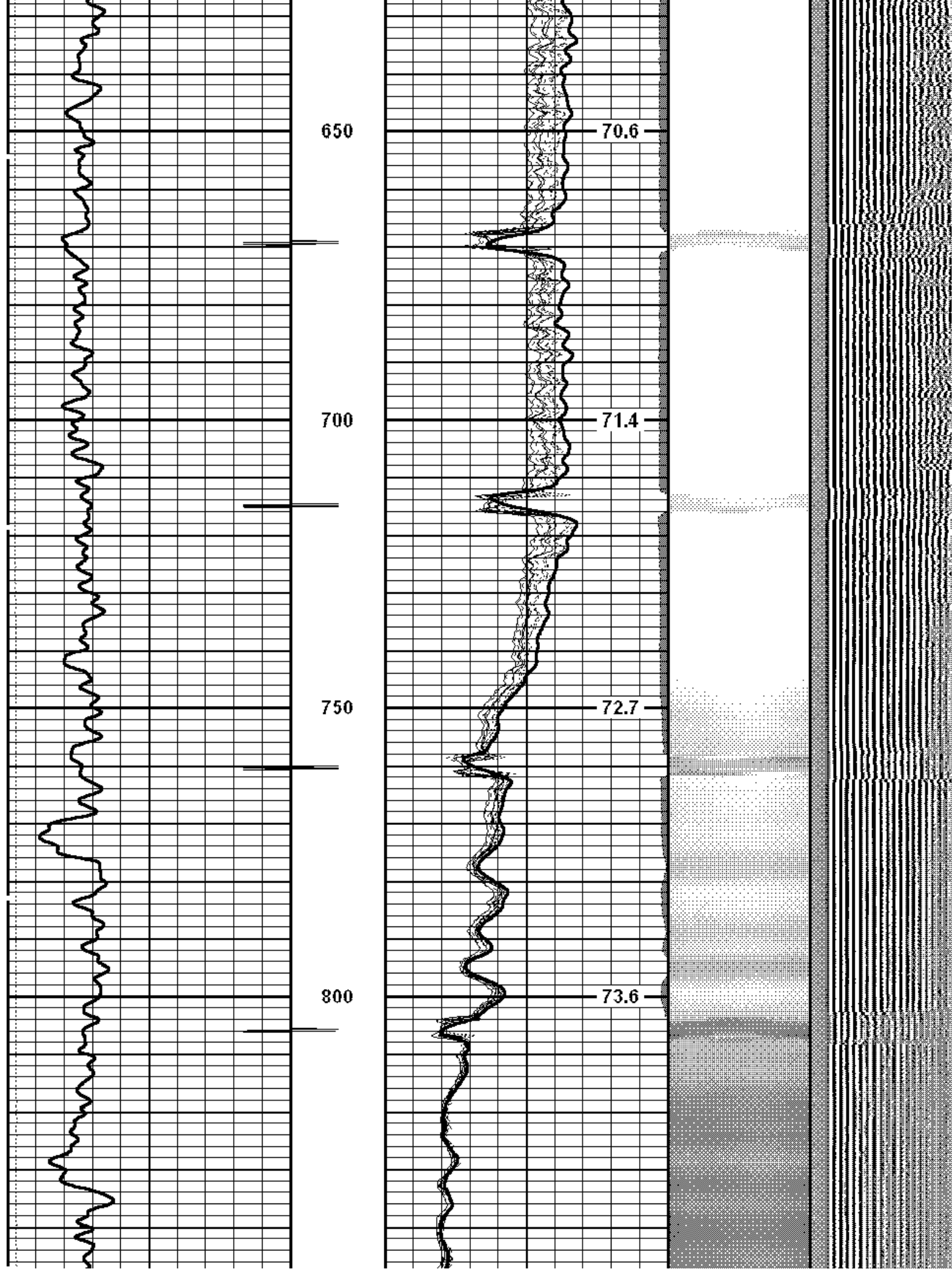
Database File: mclin c24.db  
 Dataset Pathname: pass2  
 Presentation Format: rbtfinal  
 Dataset Creation: Wed Jun 13 08:46:13 2012 by Log Std Casedhole 08121  
 Charted by: Depth in Feet scaled 1:240

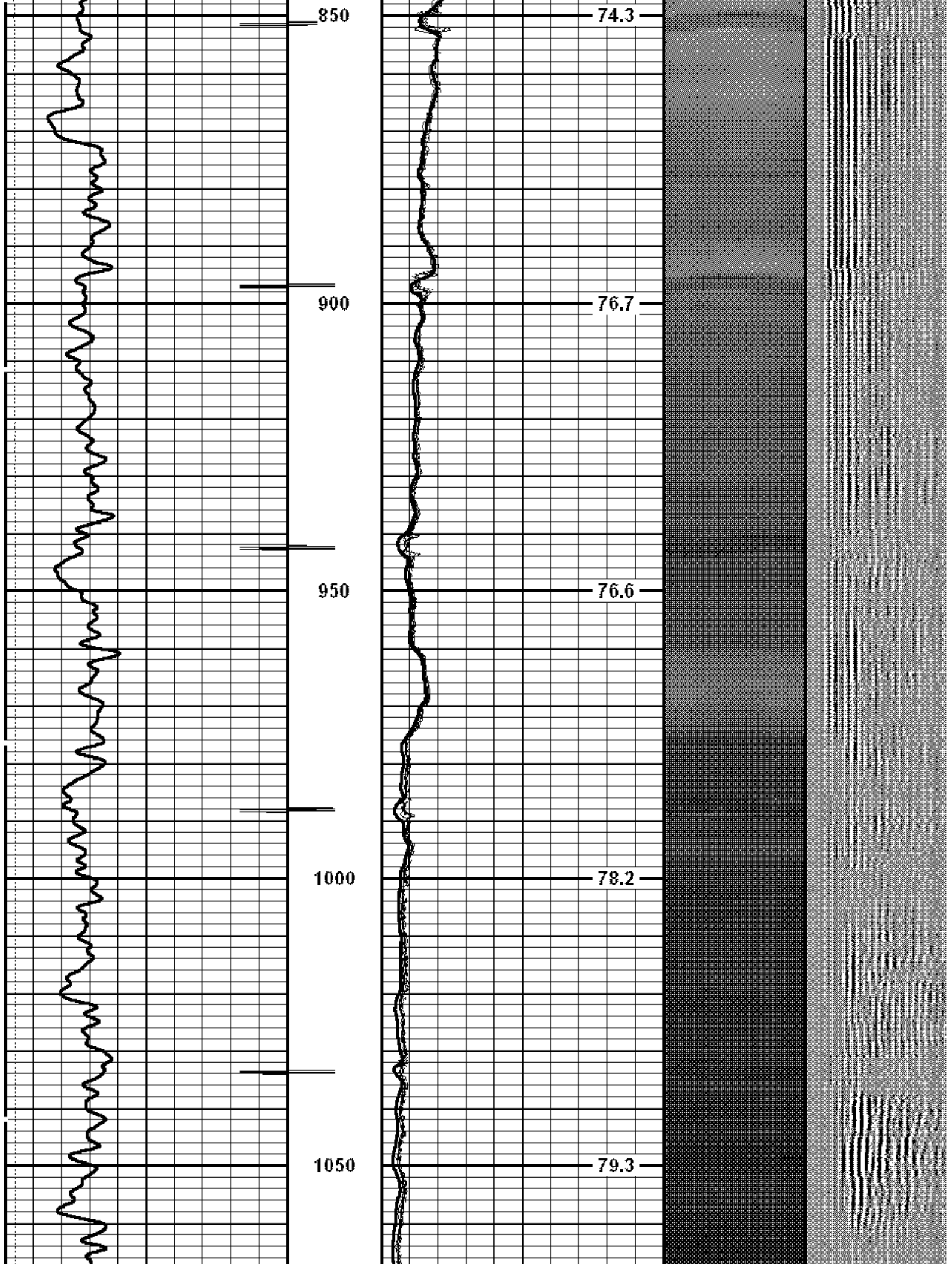
0	GR (GAPI)	200	0	Amplitude (mV)	100	1 SECTORS	8	Variable Density
0	LTEN (lb)	5000	0	TT3FT (usec)	200	0	70	200 1200
		CCL			TEMP (degF)			

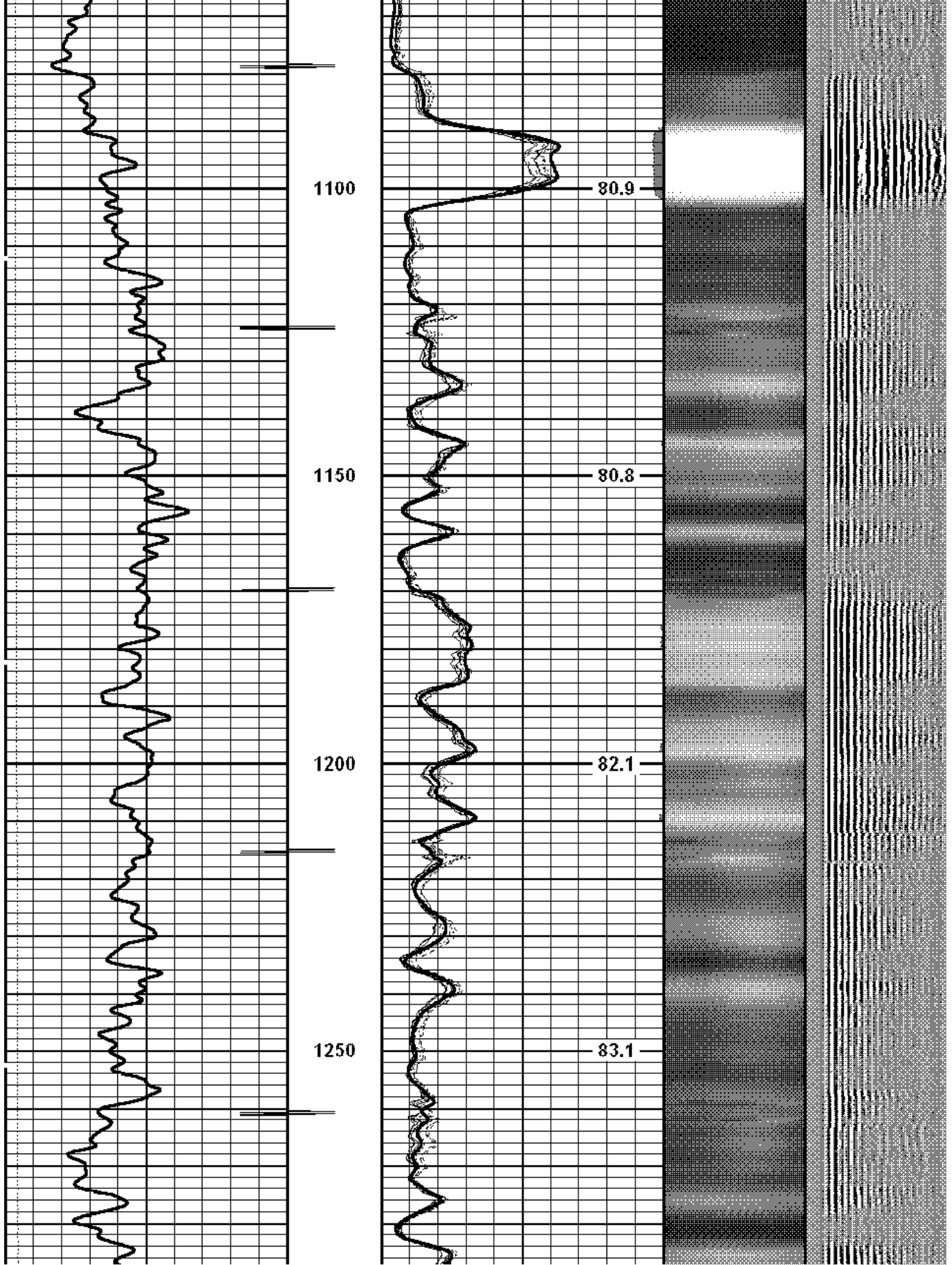




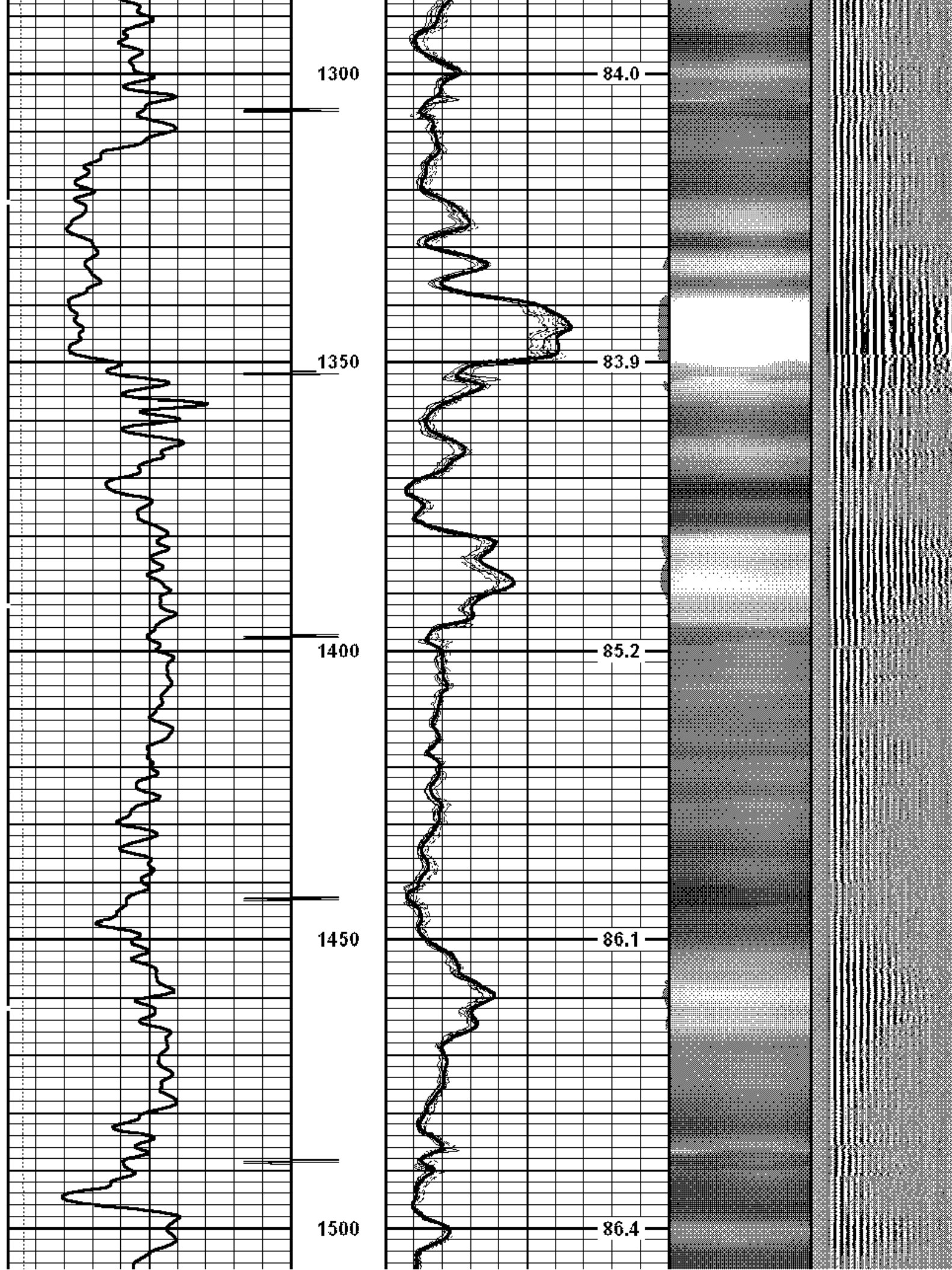




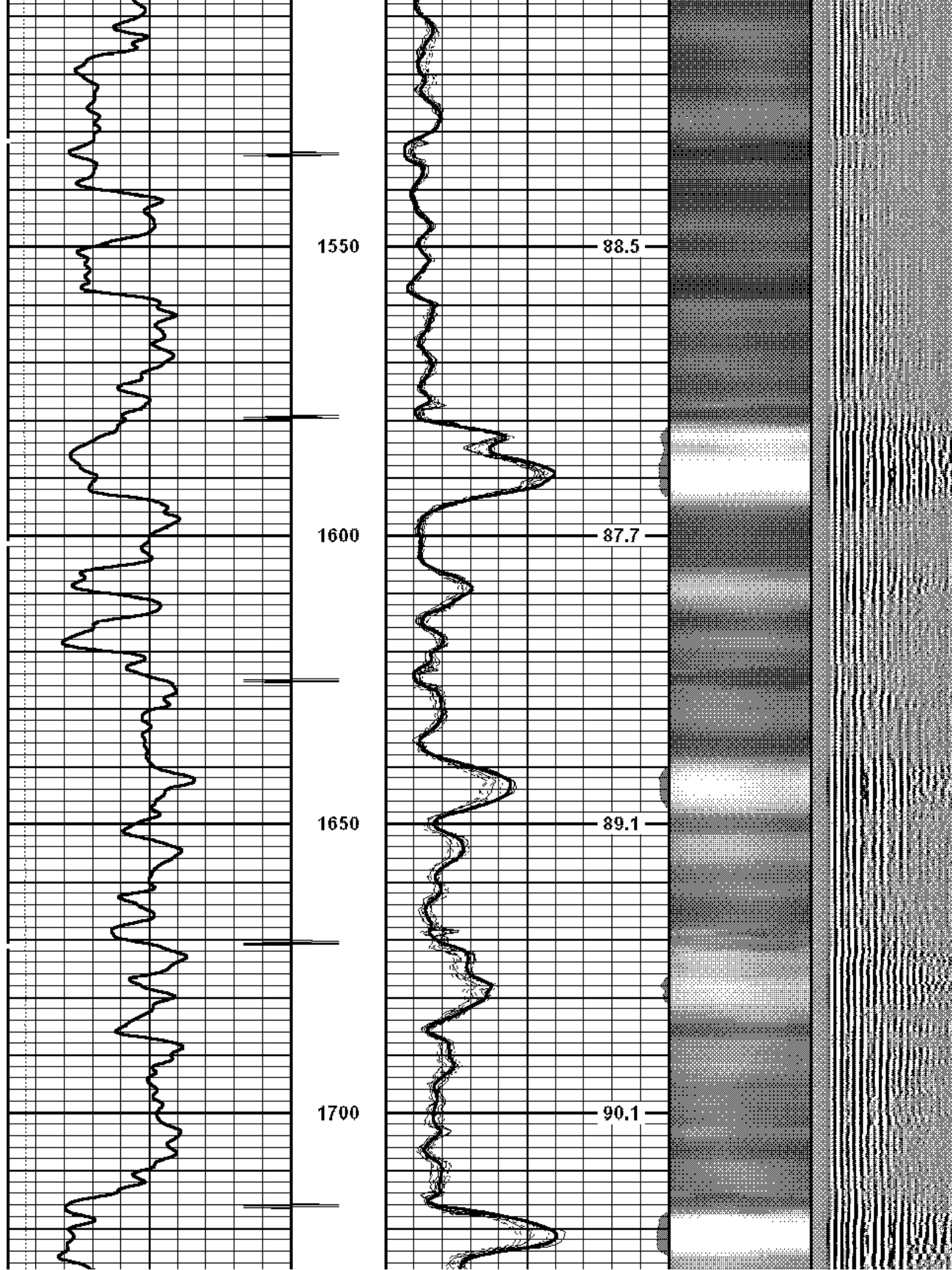


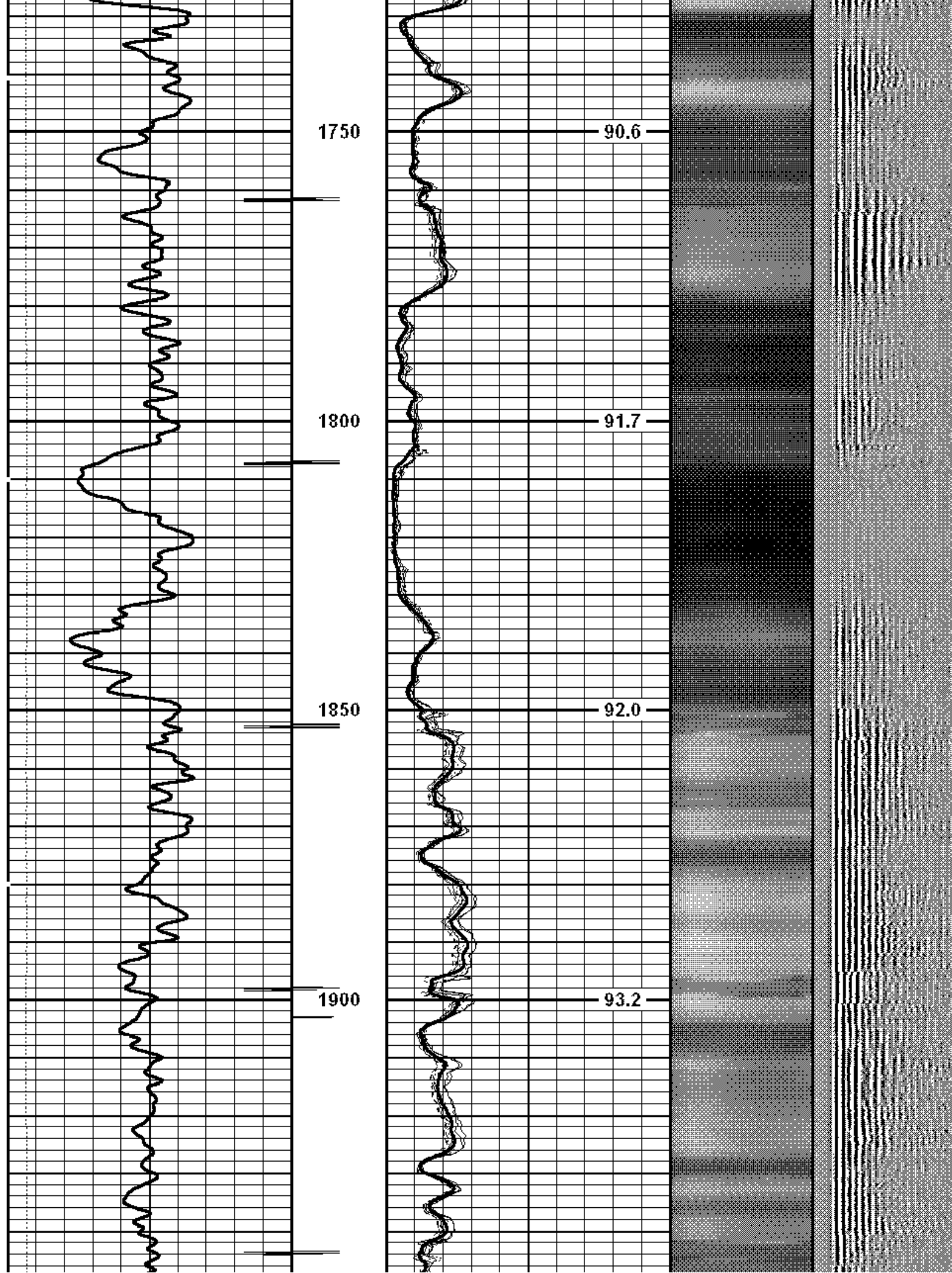


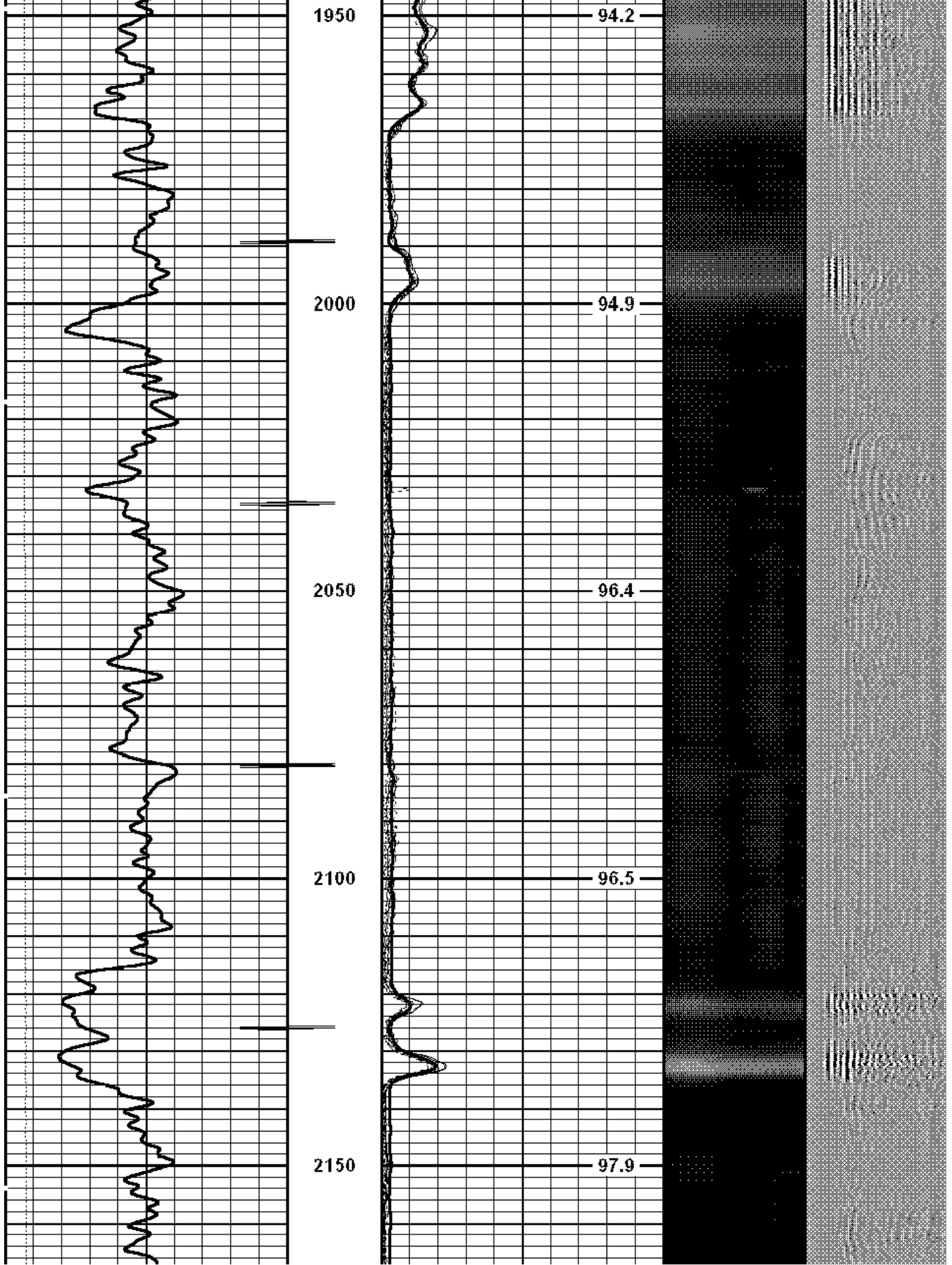


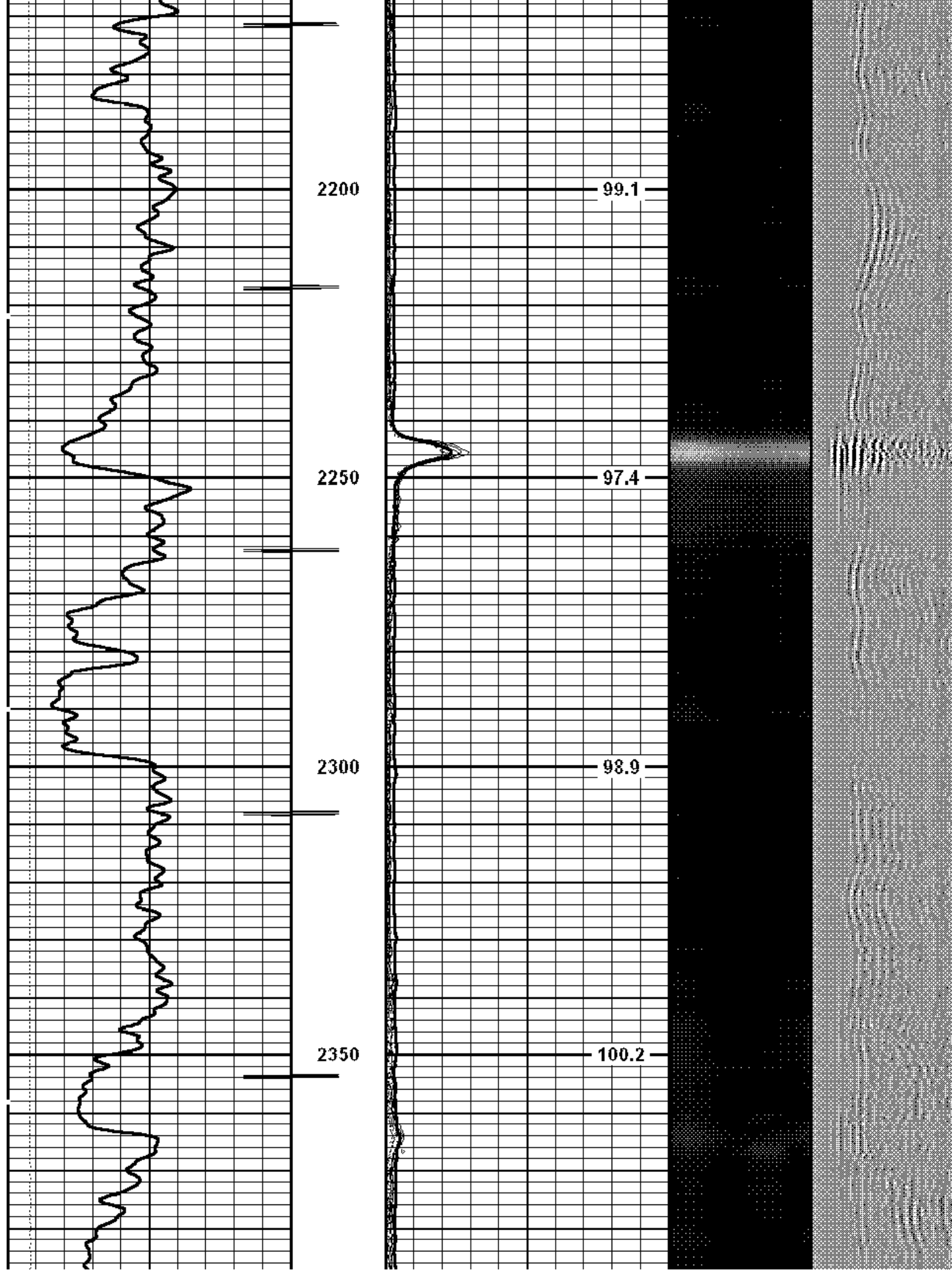


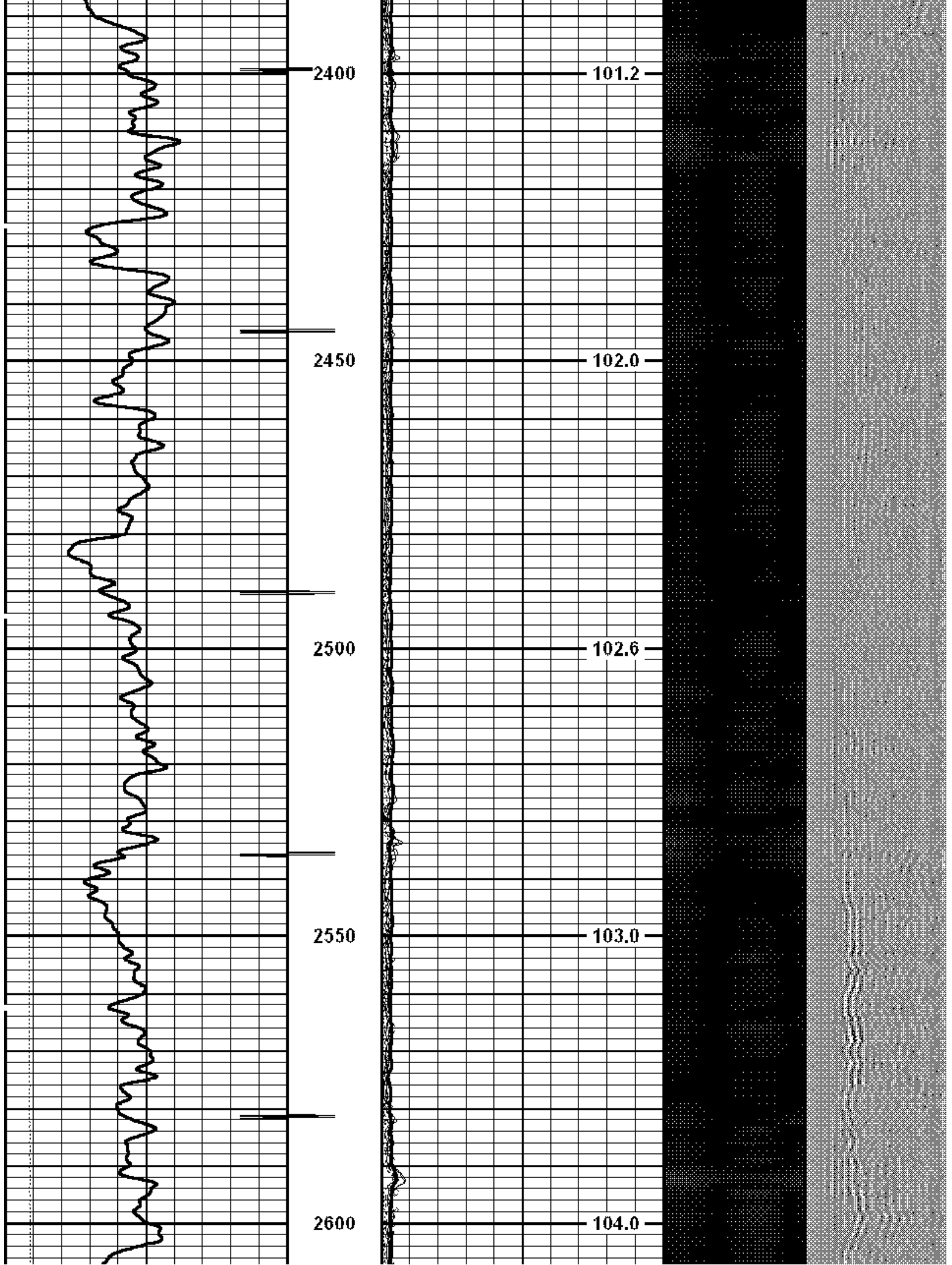


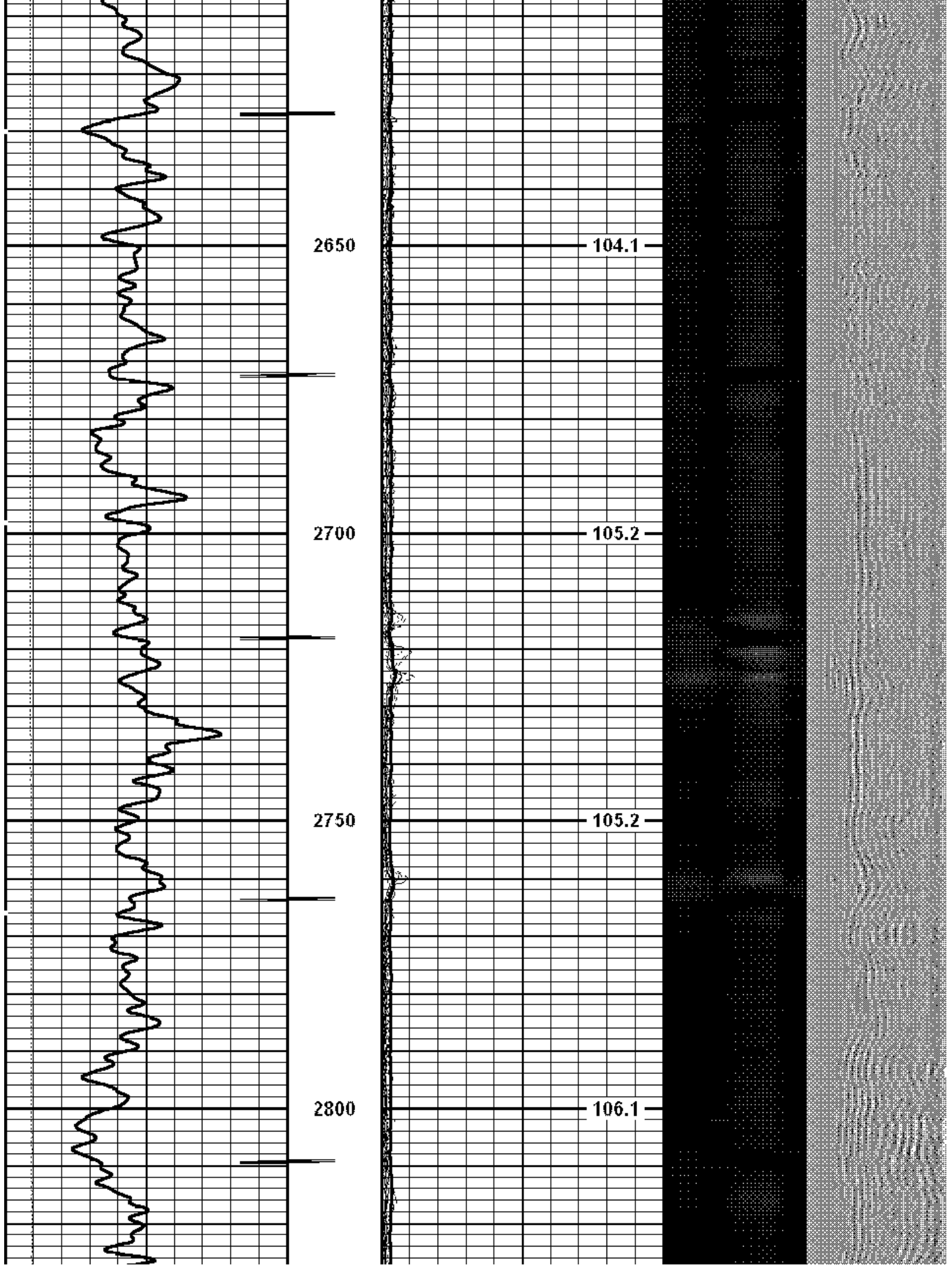




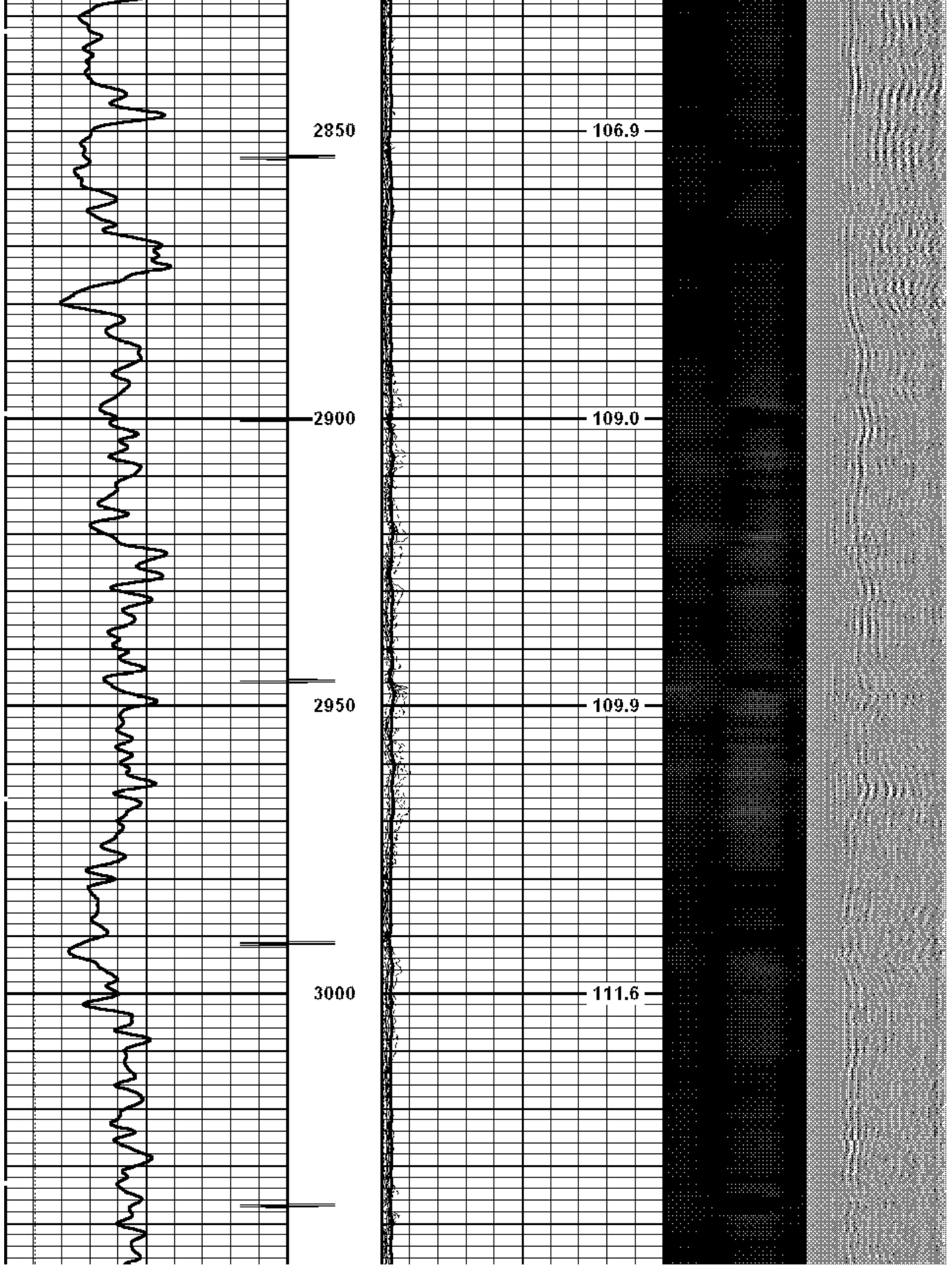




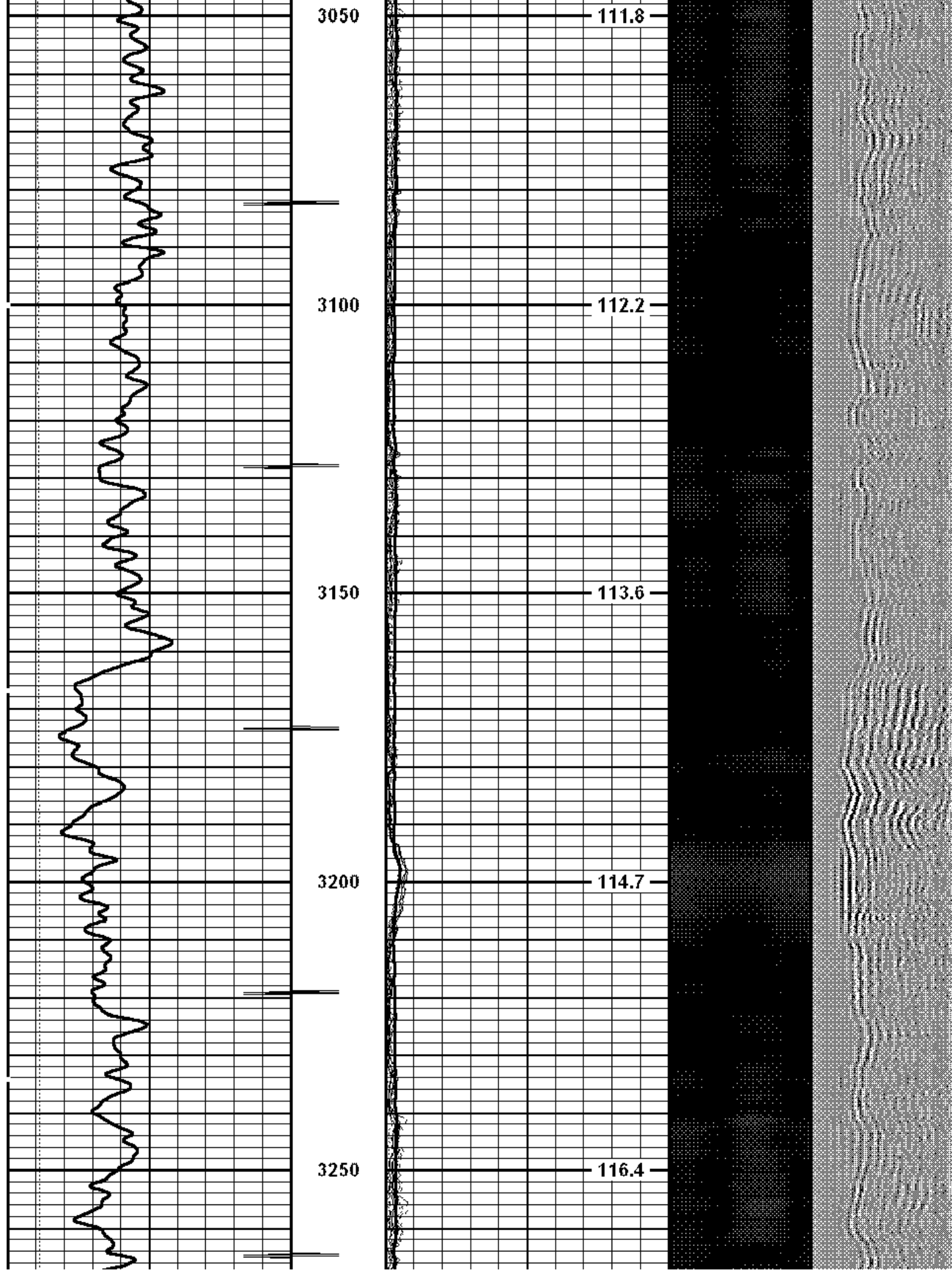


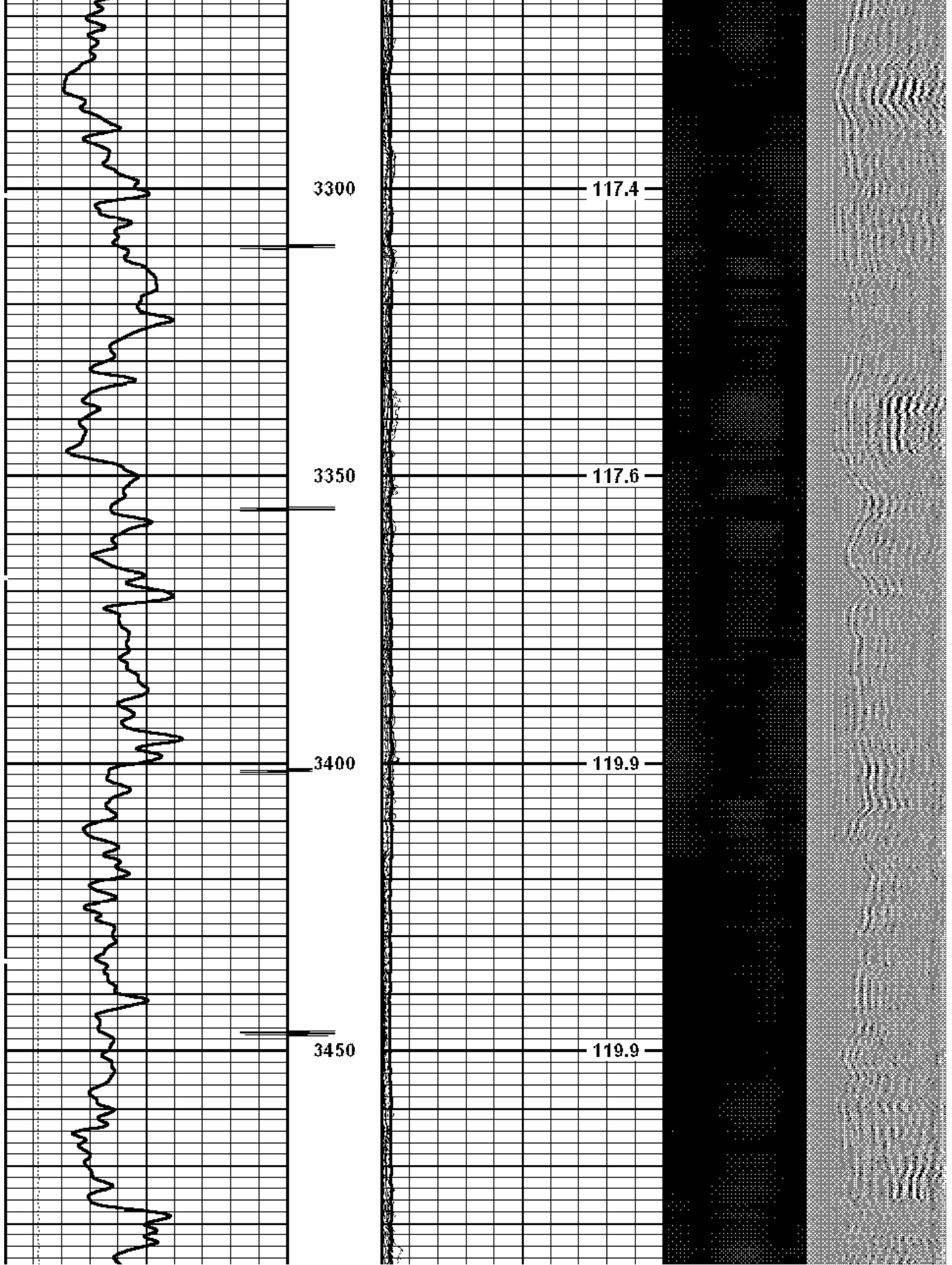


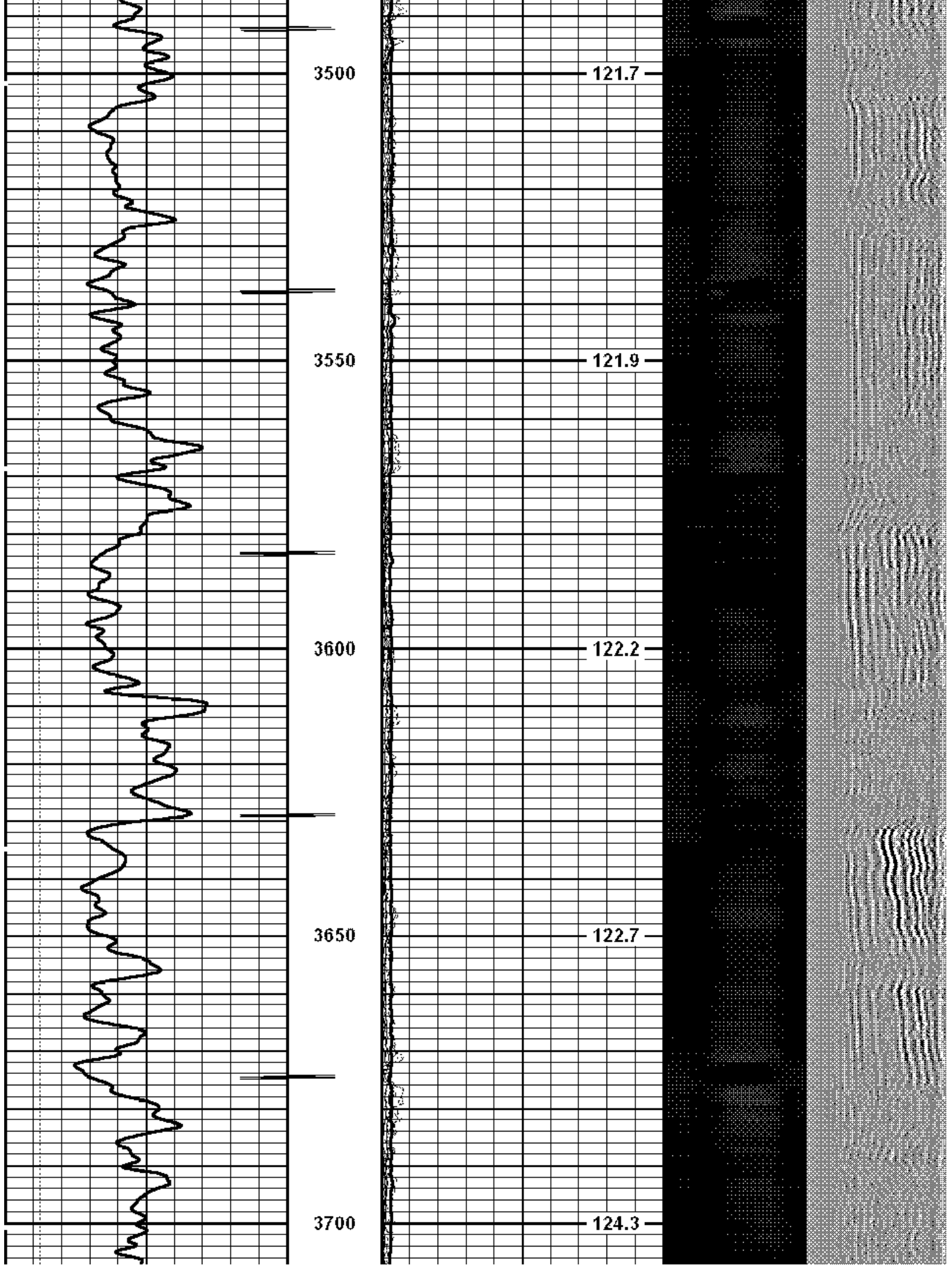


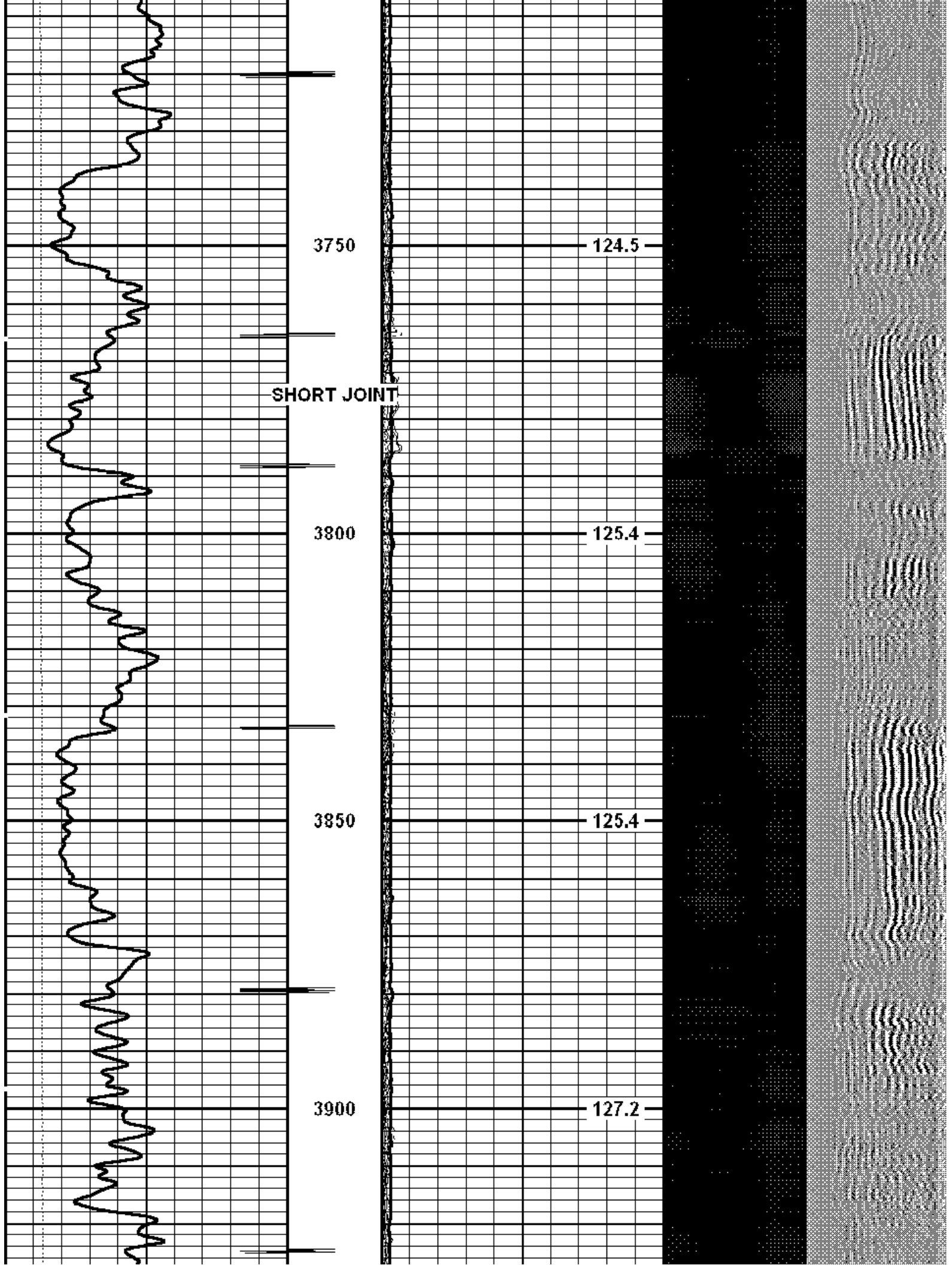


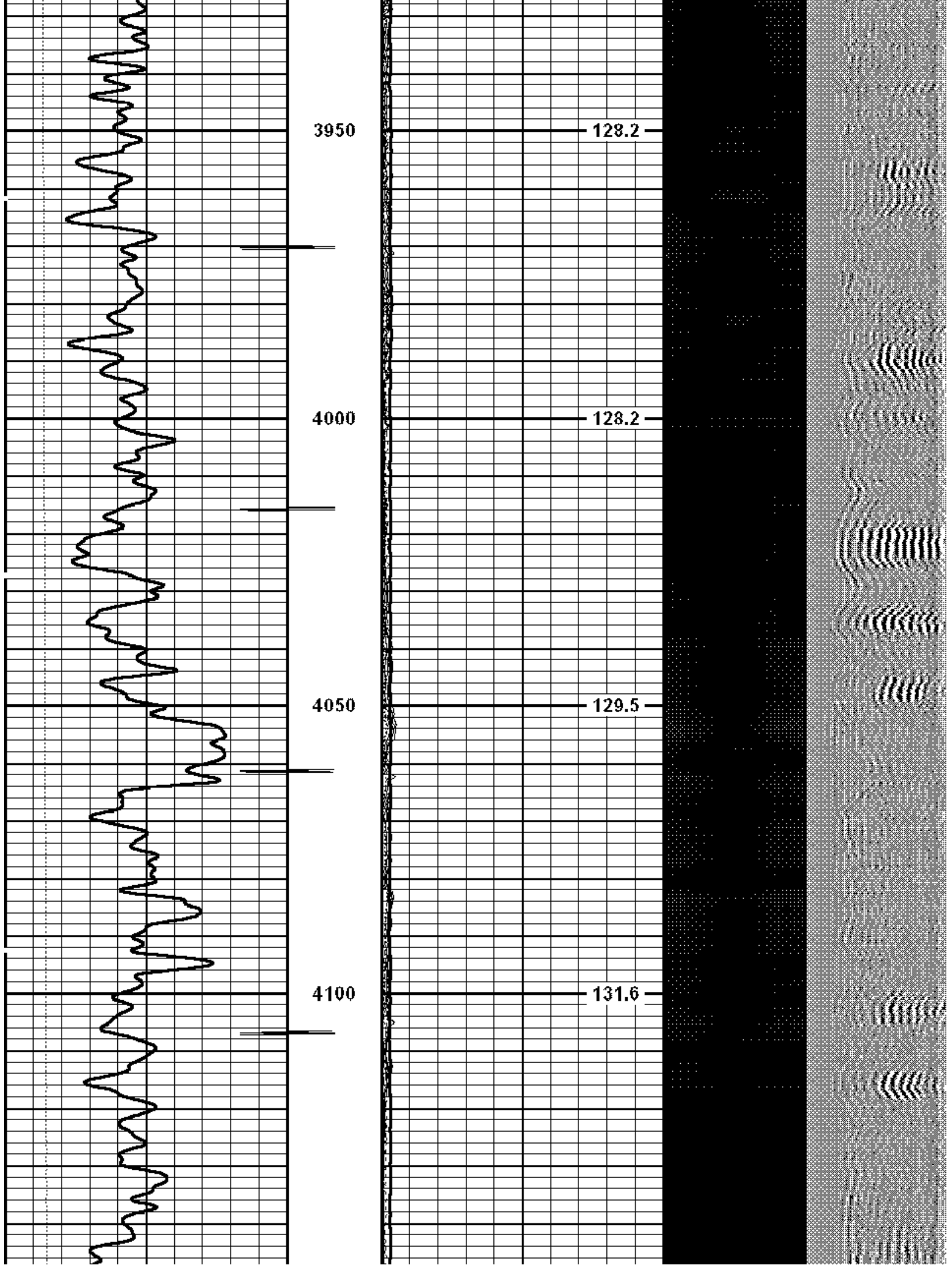


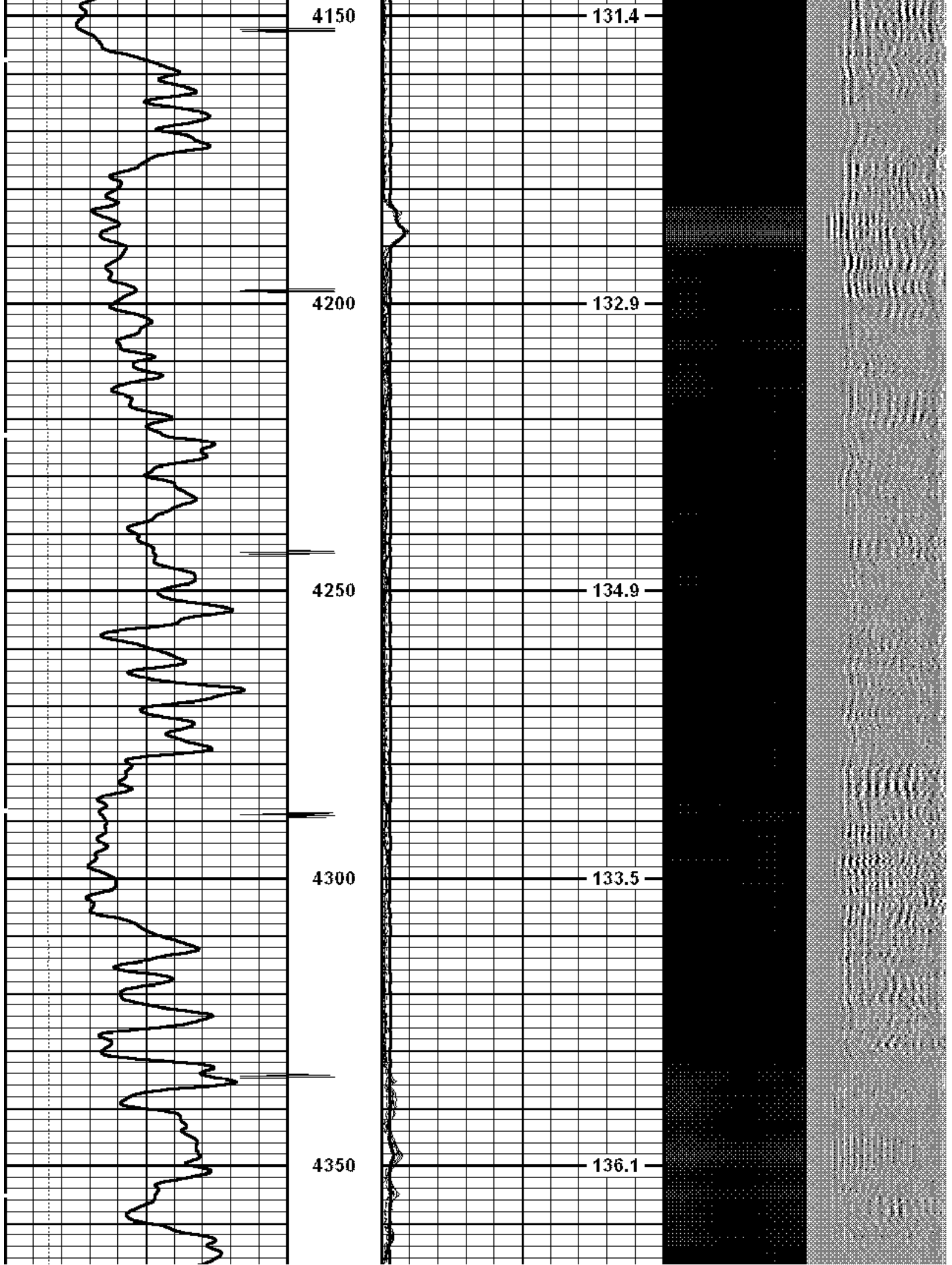




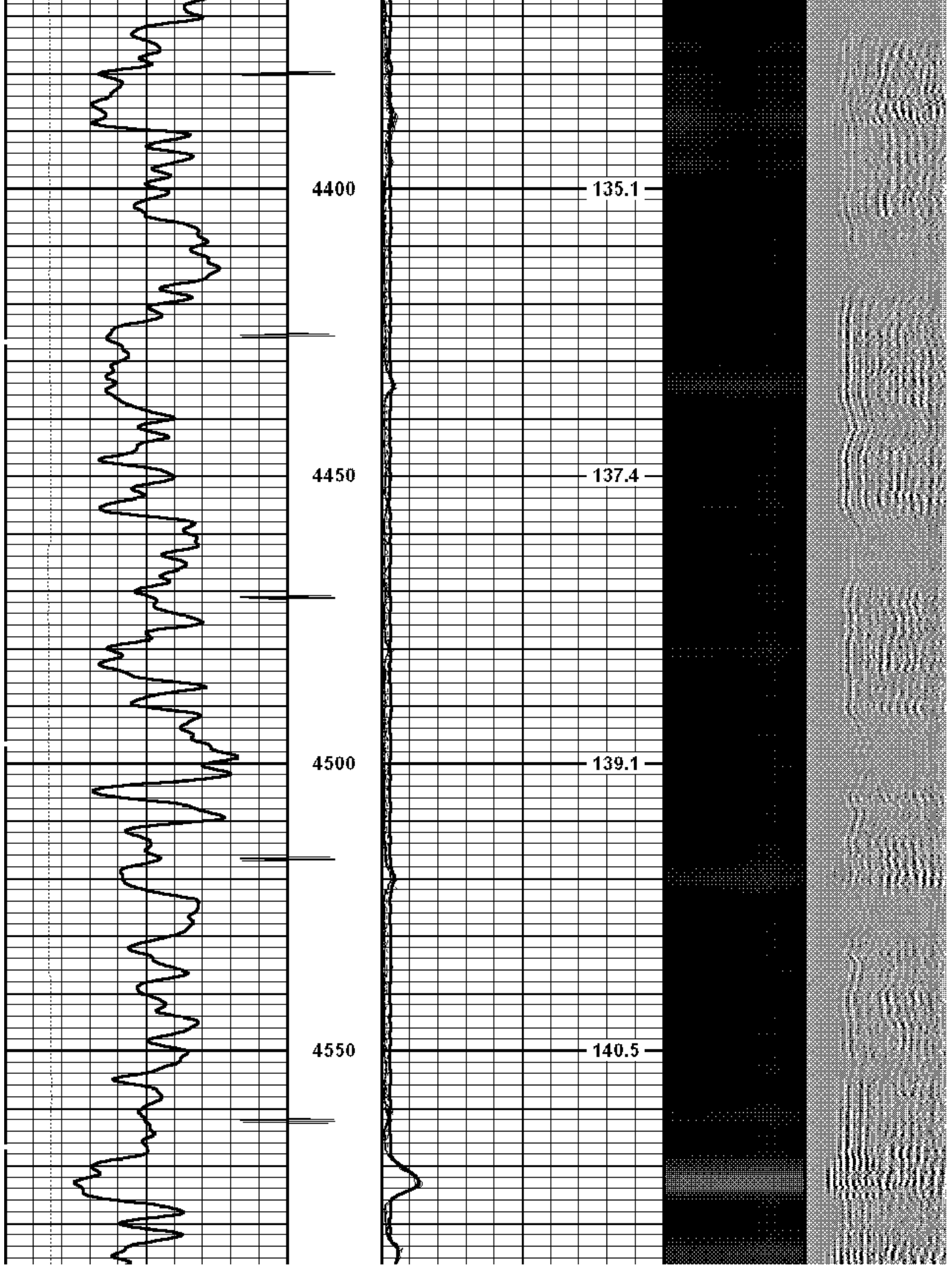




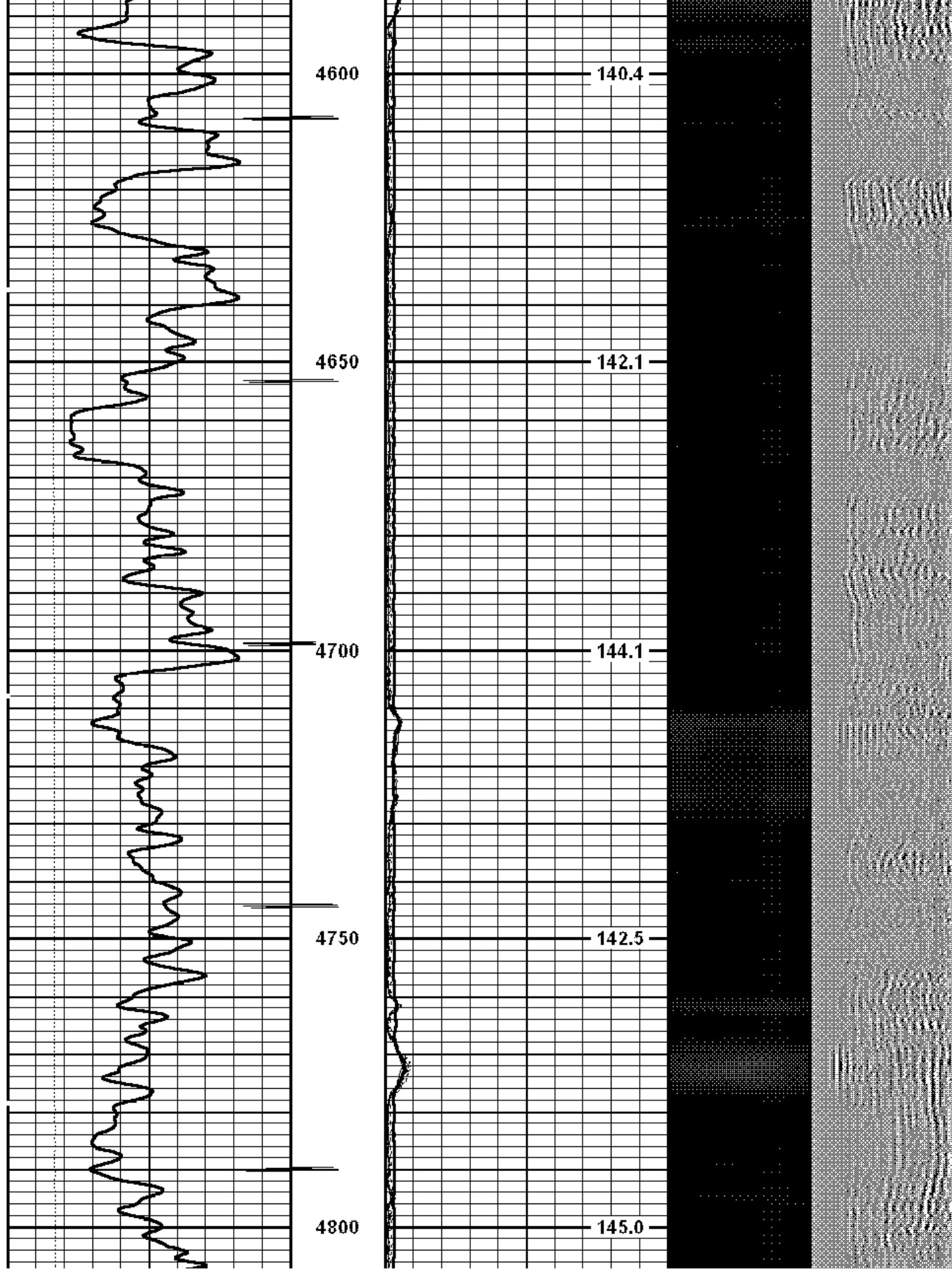


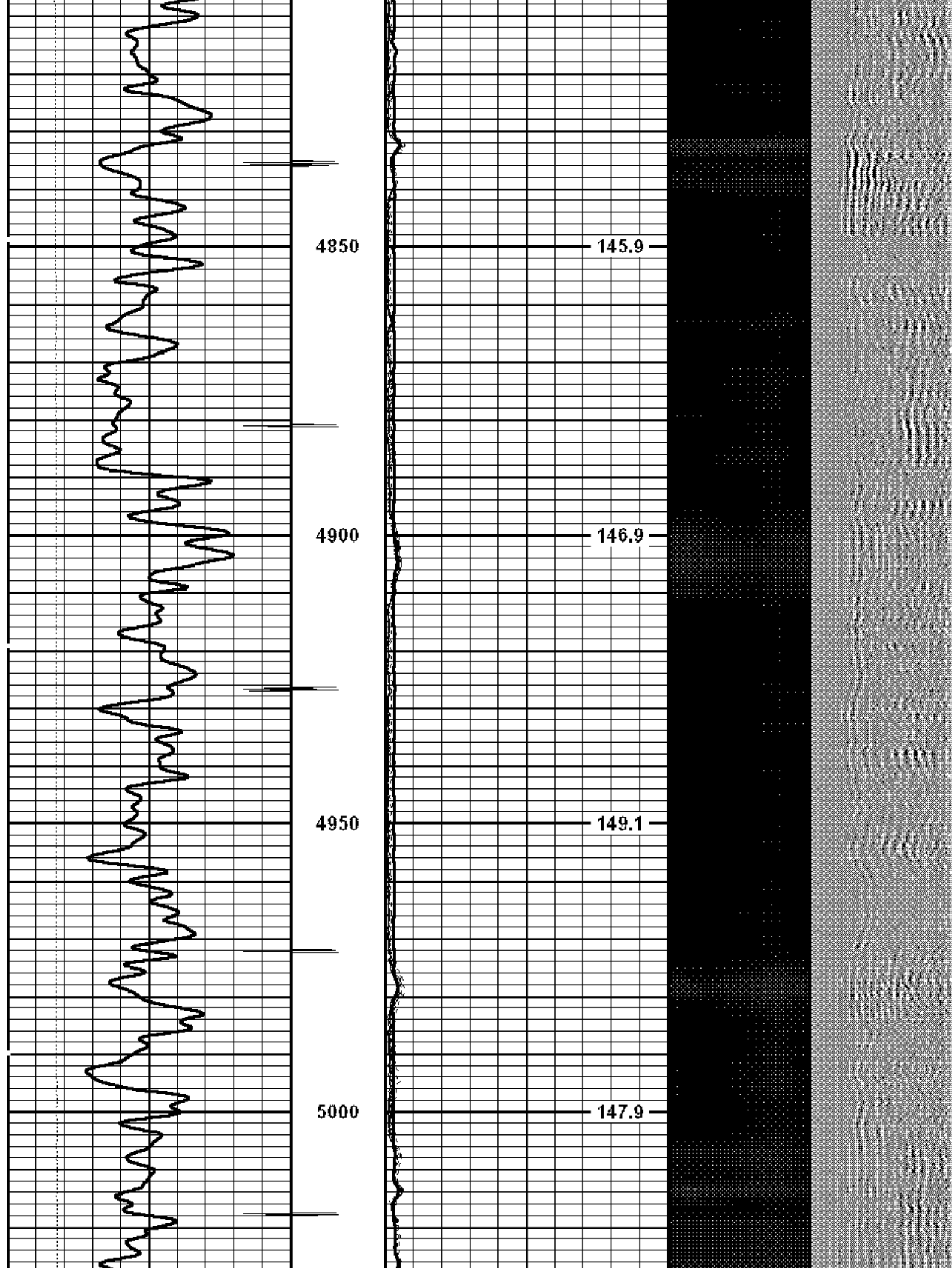


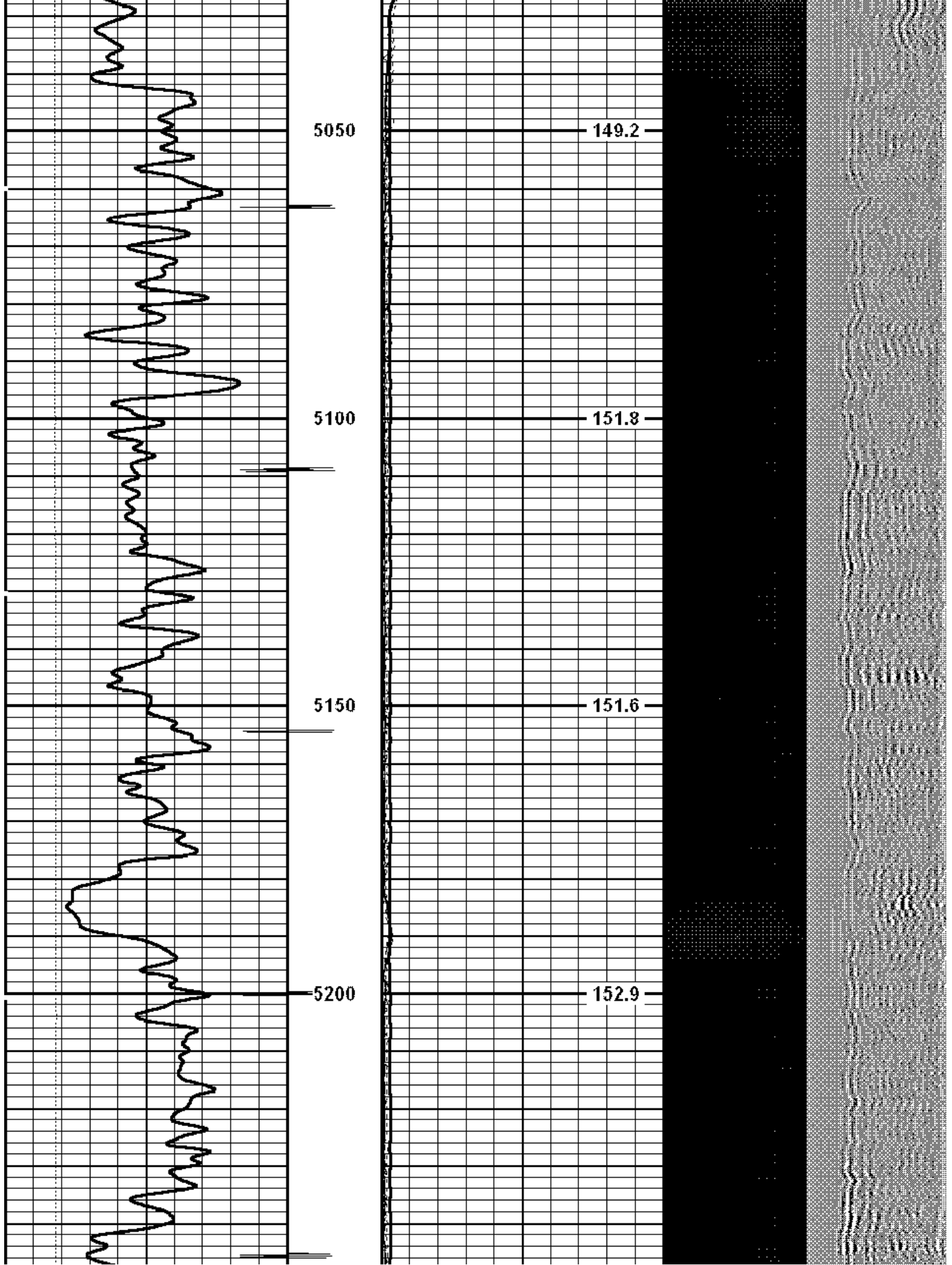


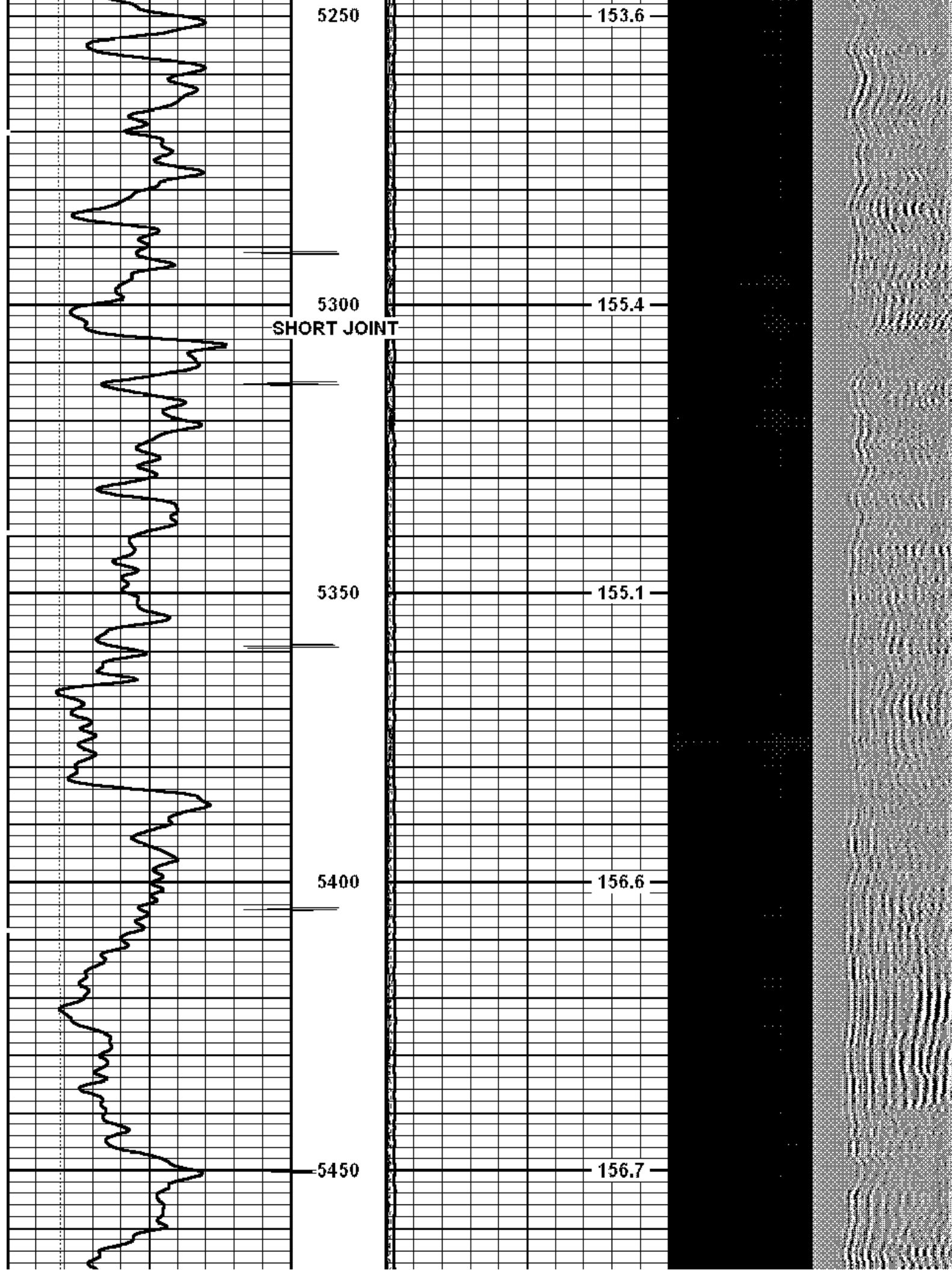


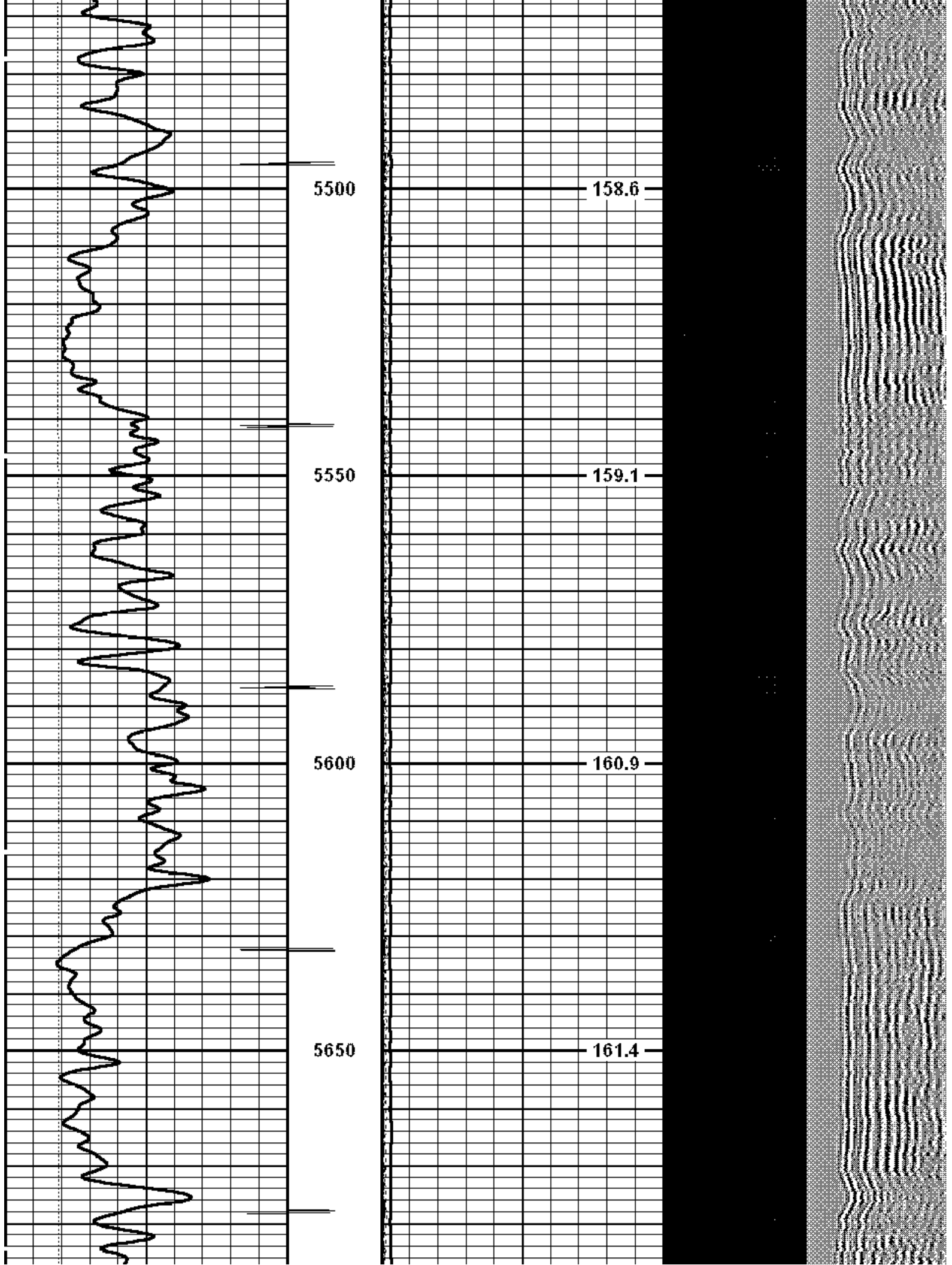


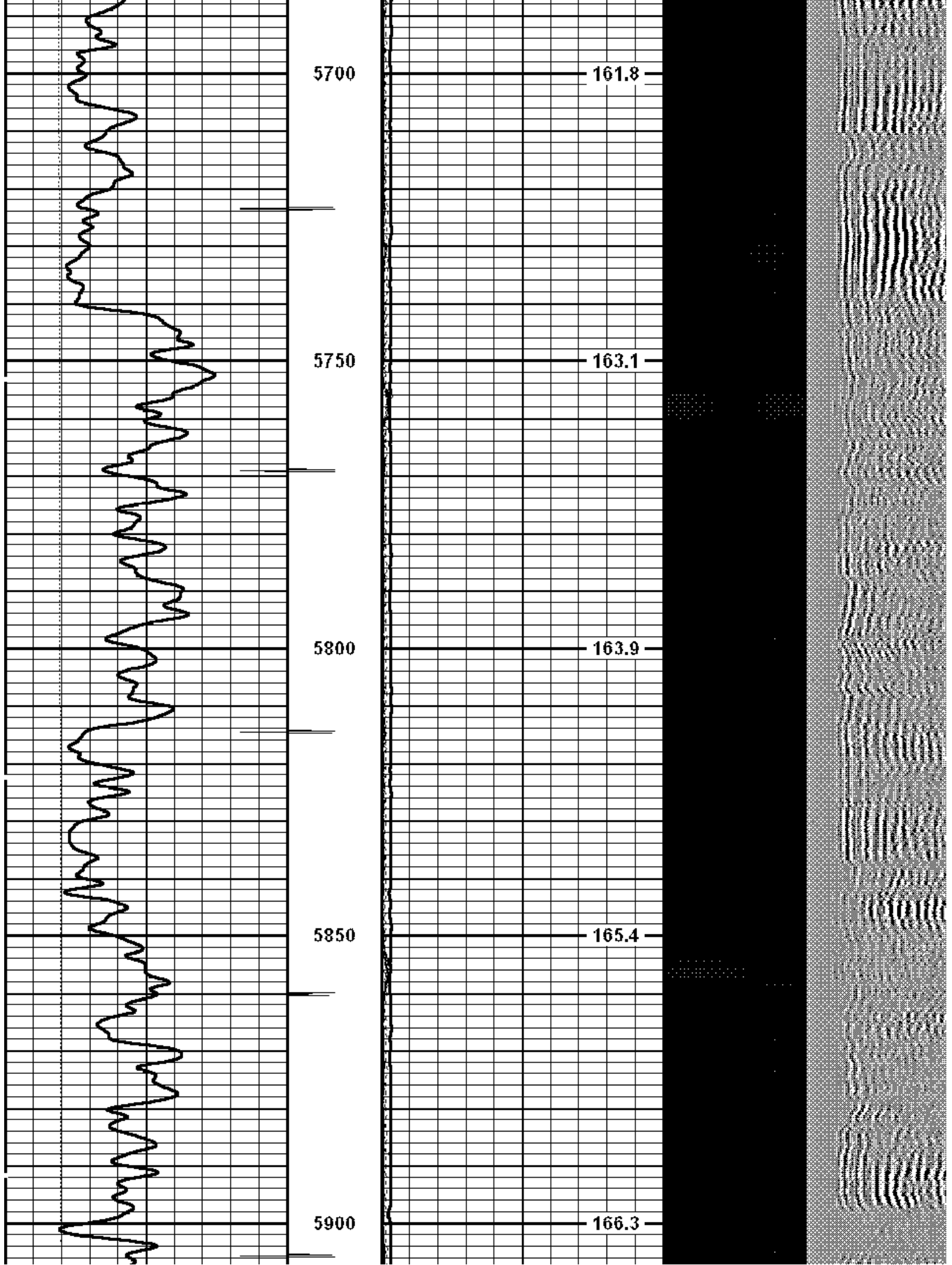


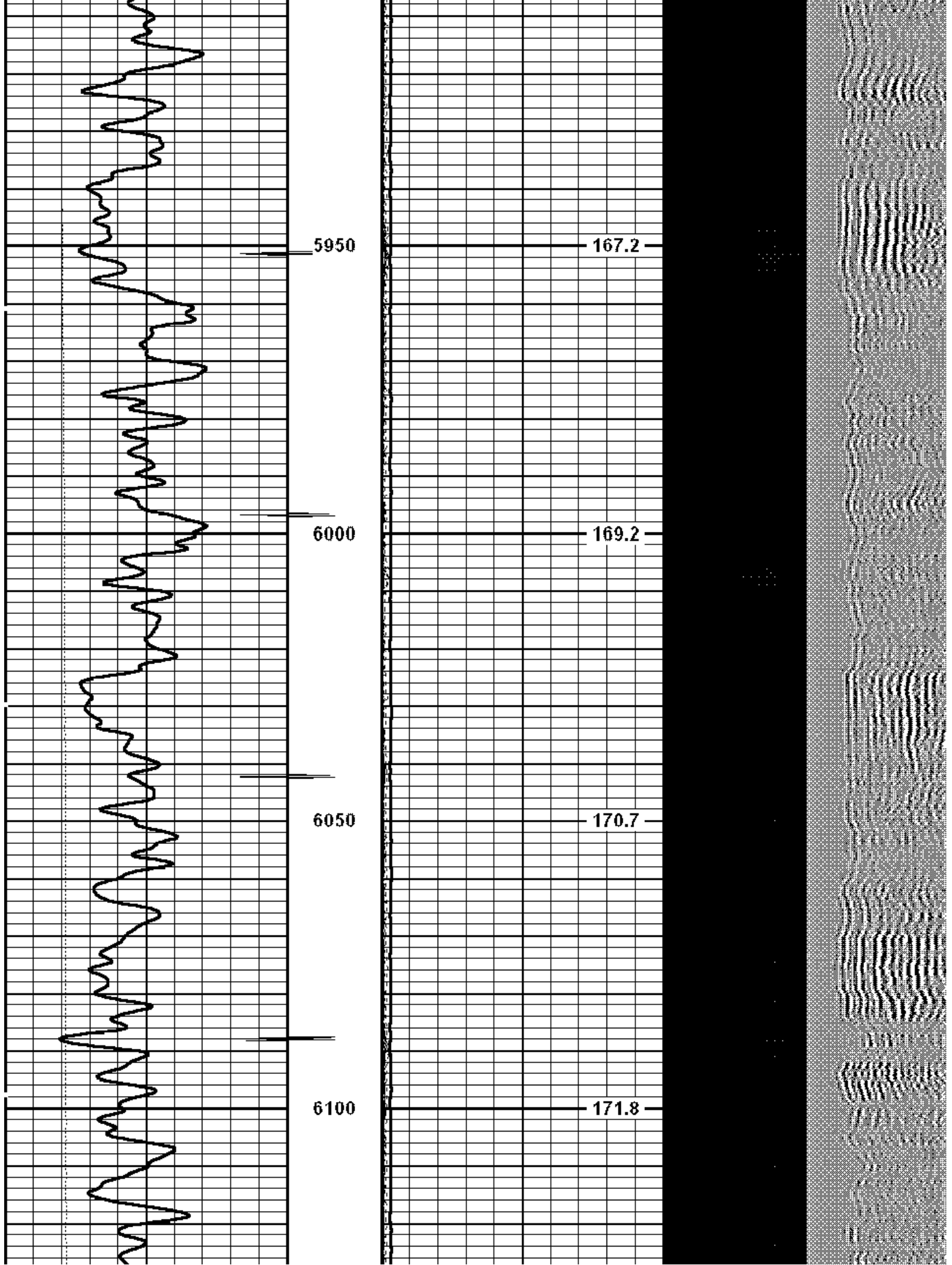




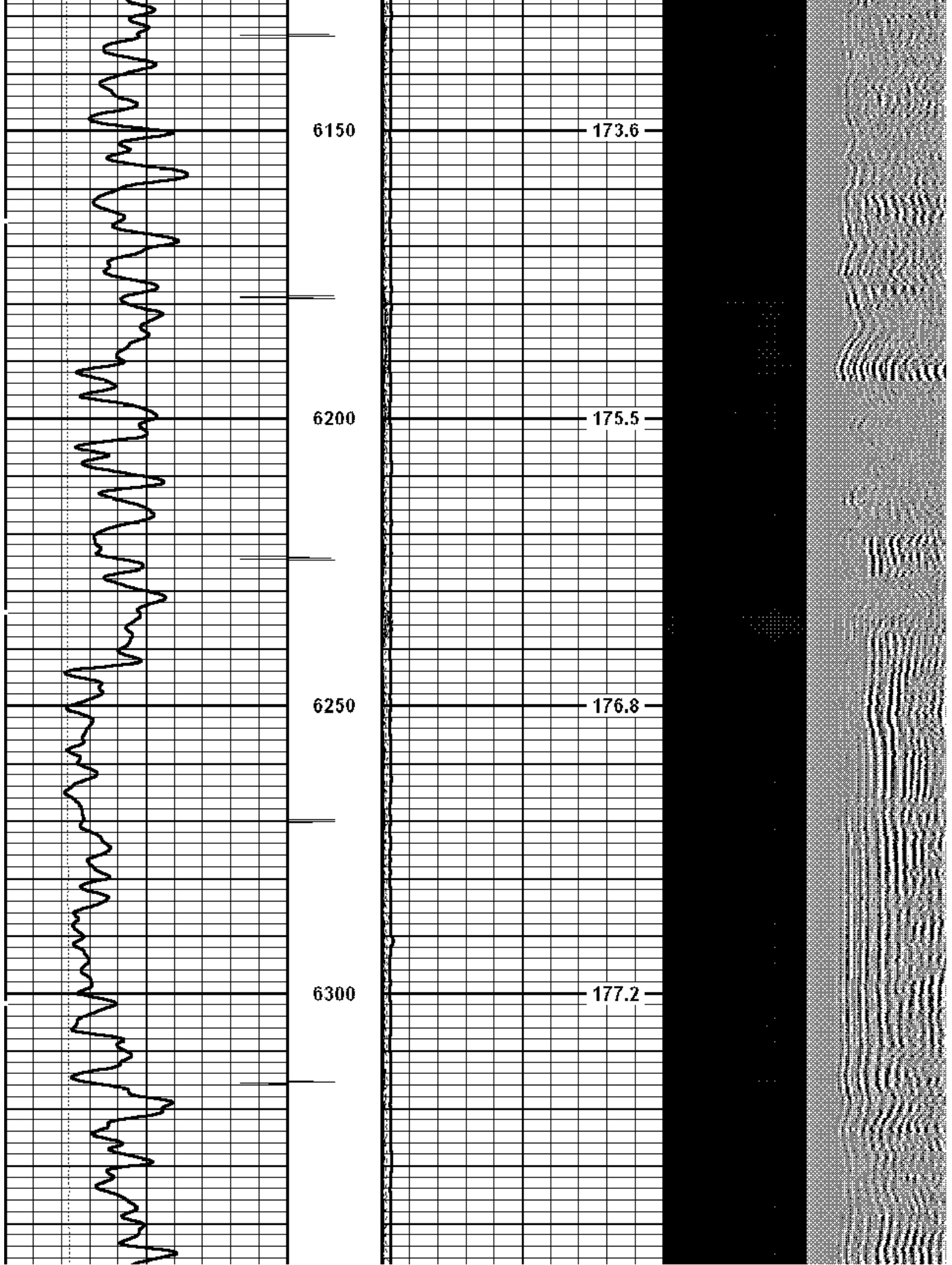


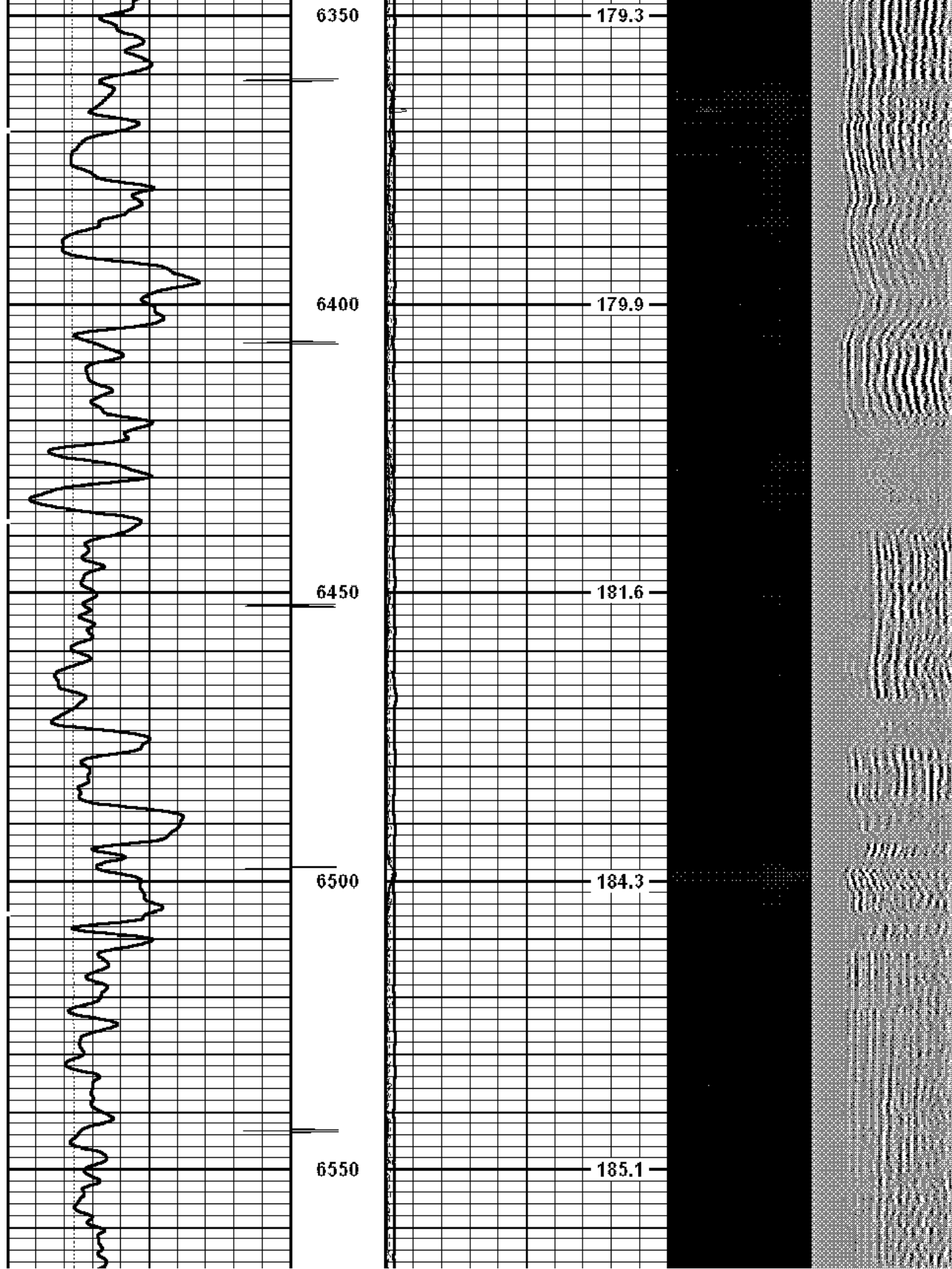


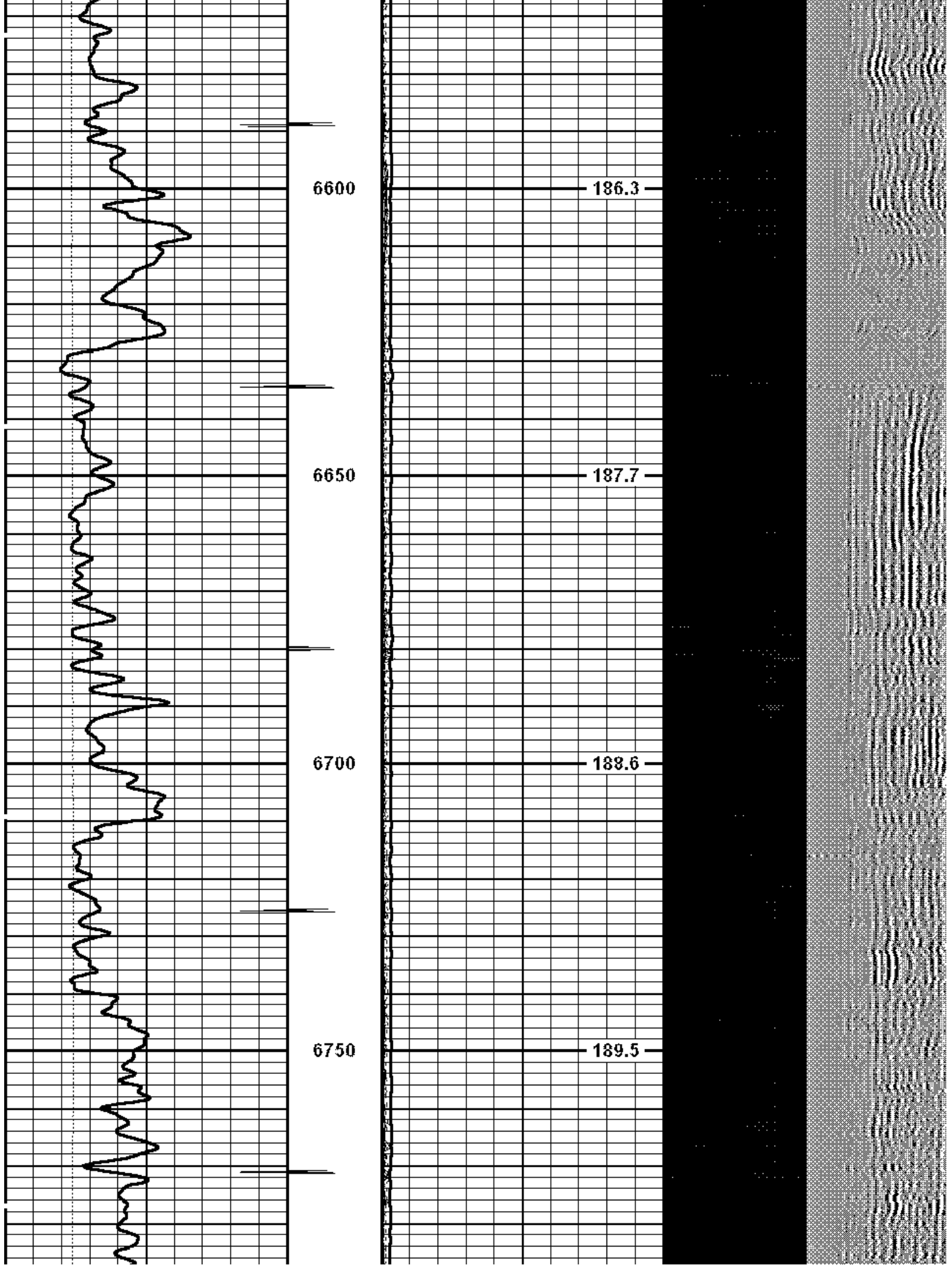


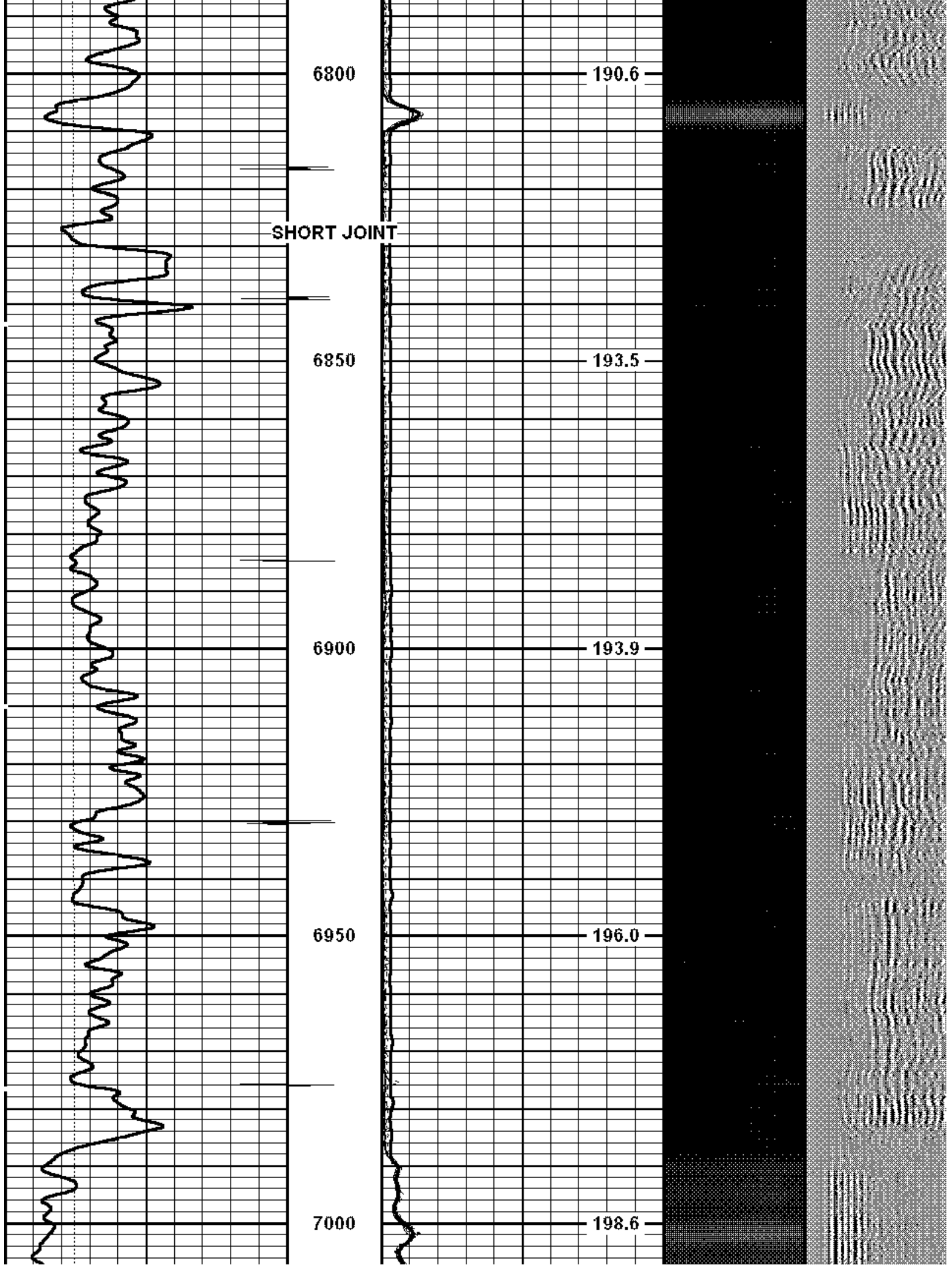


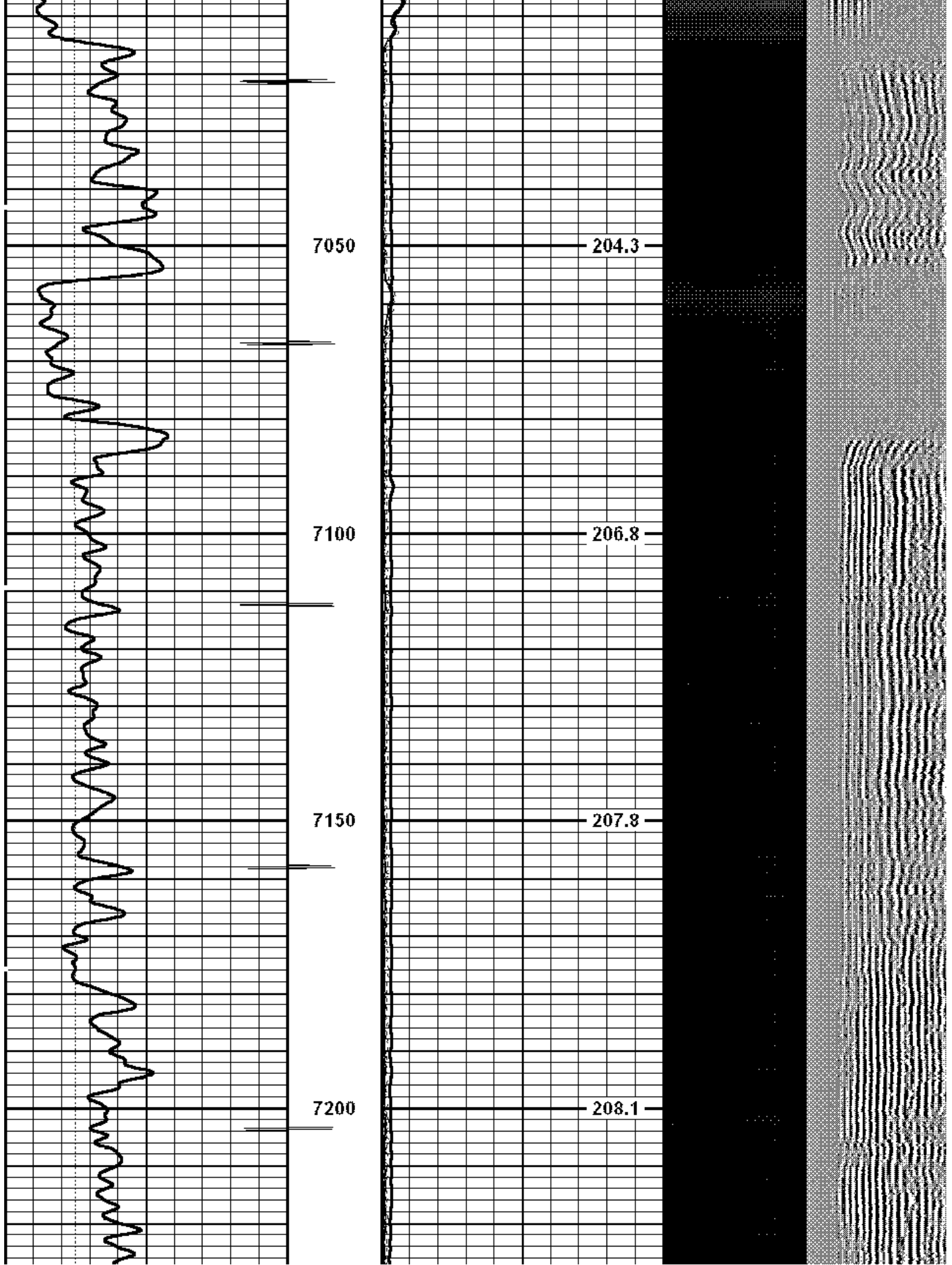


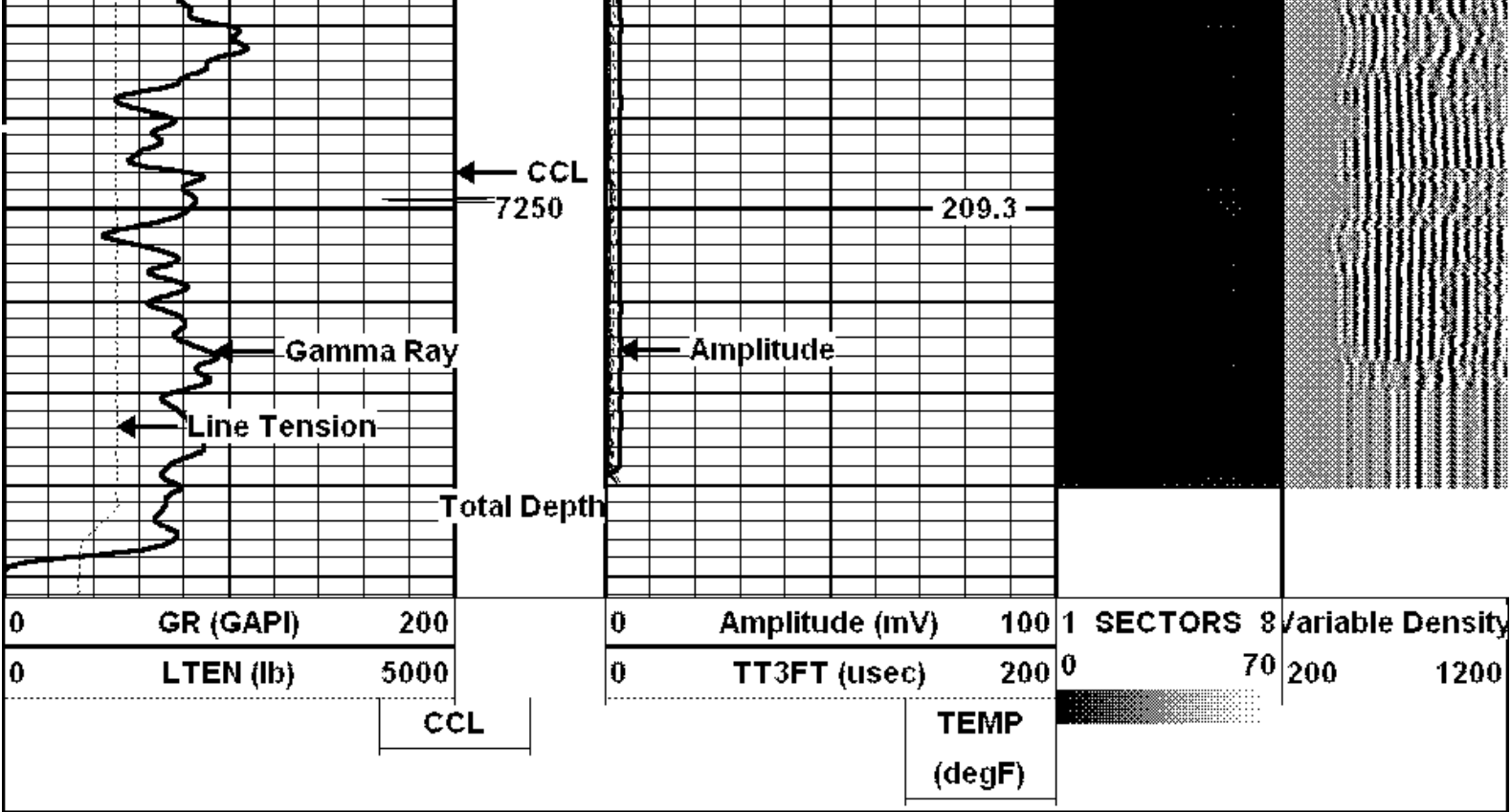


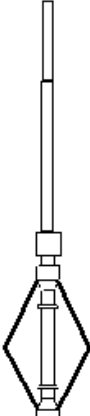











Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	21.68		TITAN	1.02	1.44	1.00
			SNDX_CCL-SNDX_3_13_CCL (000001) USS Gamma Ray/CCL (CCL Section)	1.92	3.13	11.02
			SONDEX	2.71	2.75	32.00
WVFS3FT	13.92		SNDX_RET-007 (000003) Radial Bond Tool - Analog 3 1/8	9.47	3.13	140.00
WVFS1	13.92					
WVFS2	13.92					
WVFS3	13.92					
WVFS4	13.92					
WVFS5	13.92					
WVFS6	13.92					
WVFS7	13.92					
WVFS8	13.92					
WVFS5FT	12.92					

