



CEMENT BOND LOG

Mesa Wireline

Company	ANTERO RESOURCES PICEANCE CORP.	Company	ANTERO RESOURCES PICEANCE CORP.
Well	McLIN C13	Well	McLIN C13
Field	MAMM CREEK	Field	MAMM CREEK
County	GARFIELD	County	GARFIELD
State	COLORADO	State	COLORADO
Location:	APL # : 05-045-20131-0000	Other Services	None
	SHL: 1862' FSL 2 0212' FEL		
	SEC: 13 TWP: 06S RGE: 92W		
Permanent Datum	GROUNDE LEVEL	Elevation	5725'
Log Measured From	KELLY BUSHING = 24 FT	K.B. 5749'	
Drilling Measured From	KELLY BUSHING	D.F. 5748'	
		G.L. 5725'	

Date	12 JUN 2012						
Run Number	ONE						
Depth Driller	7371'						
Depth Logger	7285'						
Bottom Logged Interval	7285'						
Top Log Interval	SURFACE						
Open Hole Size	7.875"						
Type Fluid	WATER						
Density / Viscosity	~8.34#/GAL						
Max. Recorded Temp.	197 DEG F						
Estimated Cement Top	1120'						
Time Well Ready	N/A						
Time Logger on Bottom	0845						
Equipment Number	FL0602						
Location	GRAND JUNCTION						
Recorded By	M. BERNATCHEZ						
Witnessed By	L. GARDNER						
Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	24.0"	SURFACE	60'				
TWO	12.25"	60'	1000'				
THREE	7.875"	1000'	7371'				
Casing Record	Size	Wgt/Ft			Top		Bottom
Surface String	8.625"		24.0"		SURFACE		1000'
Prot. String							
Production String	4.5"		11.6#		SURFACE		7371'
Liner							

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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 WITH WEATHERFORD LOG TRIPLE COMBO DATED 14 APR 2012.

SHORT JOINTS: 4615' = 4637' & 5728' - 5750' & 9819' - 9842'

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



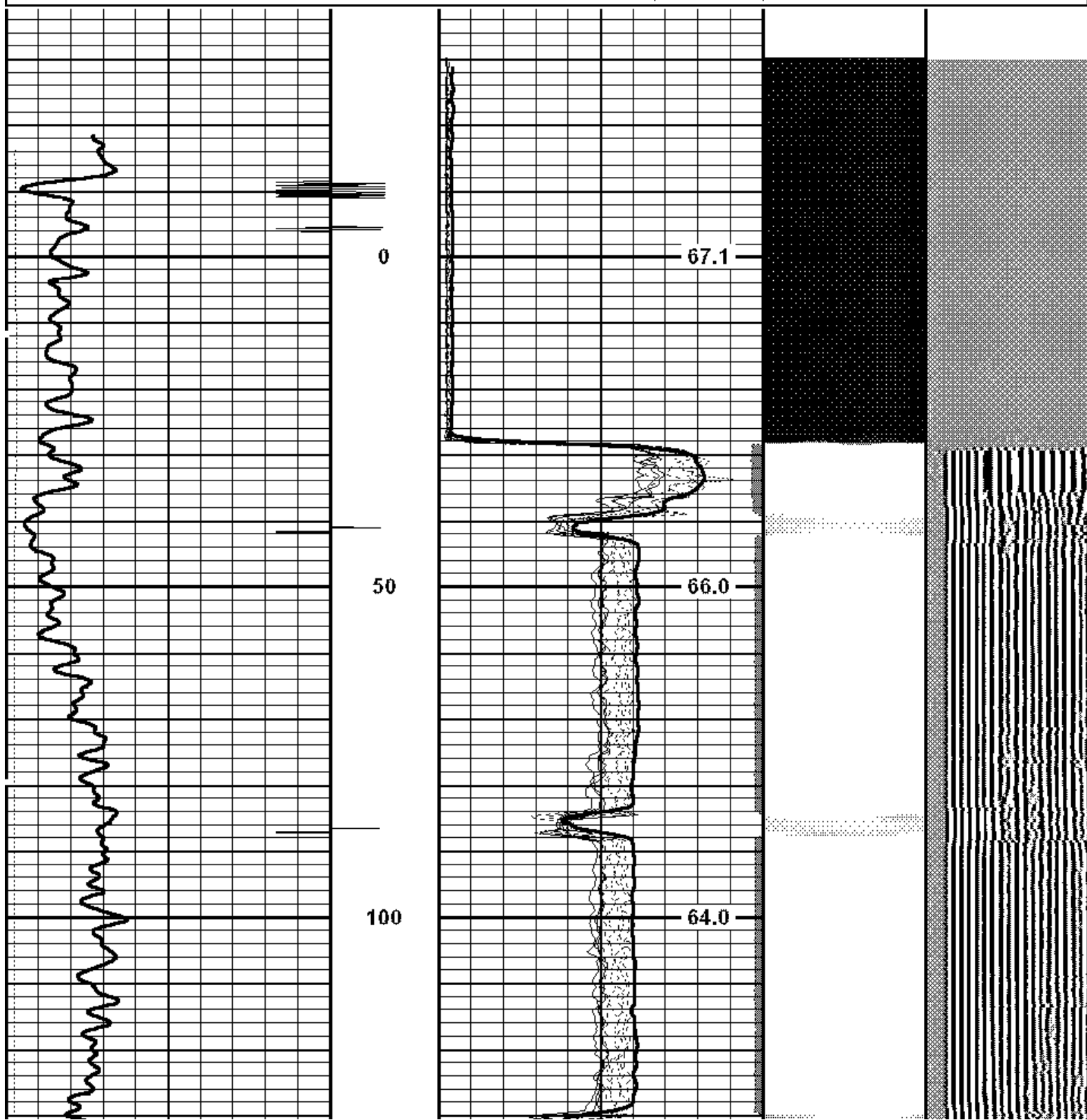
MAIN LOG PASS

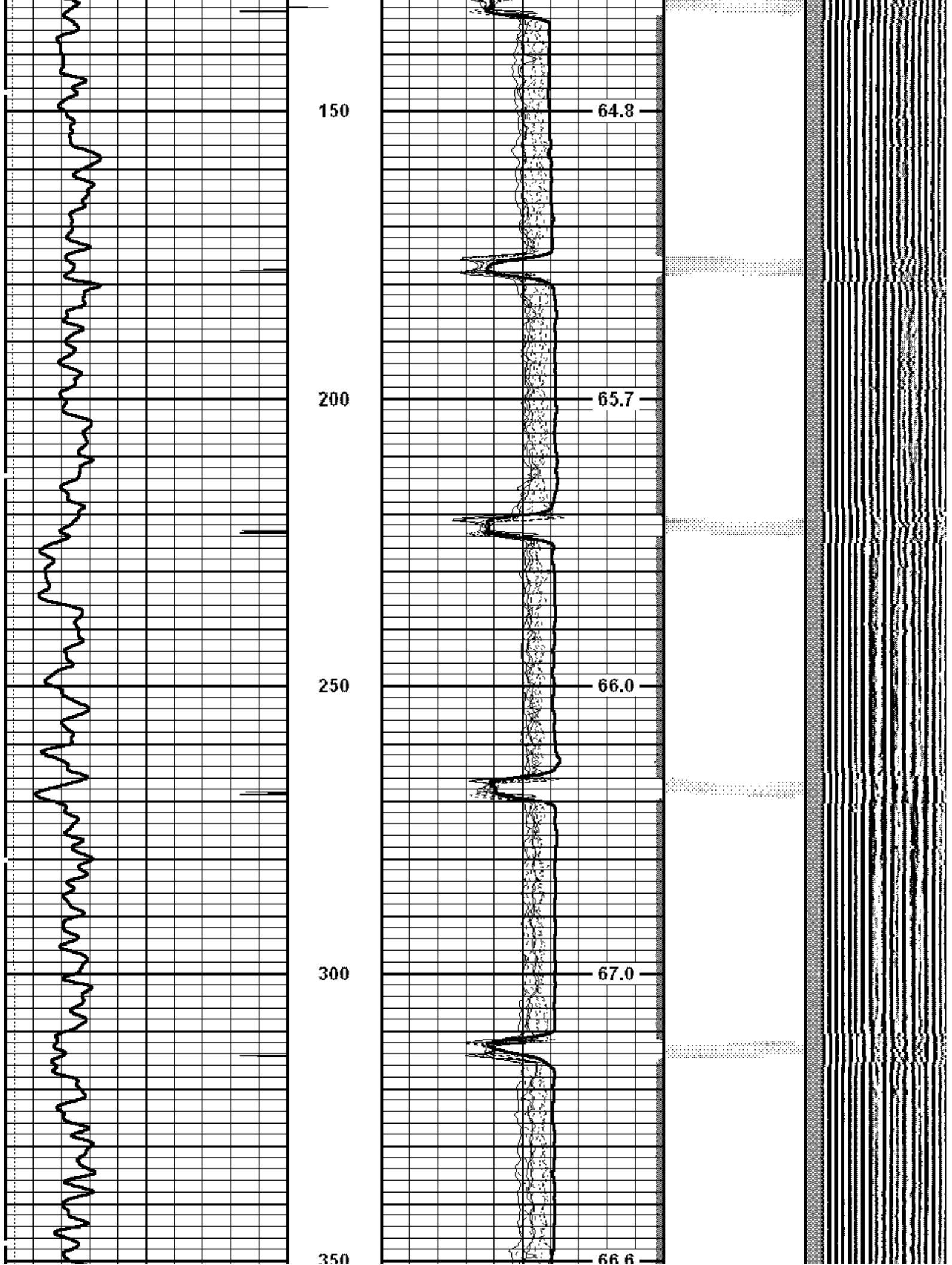
SCALE 5" = 100'

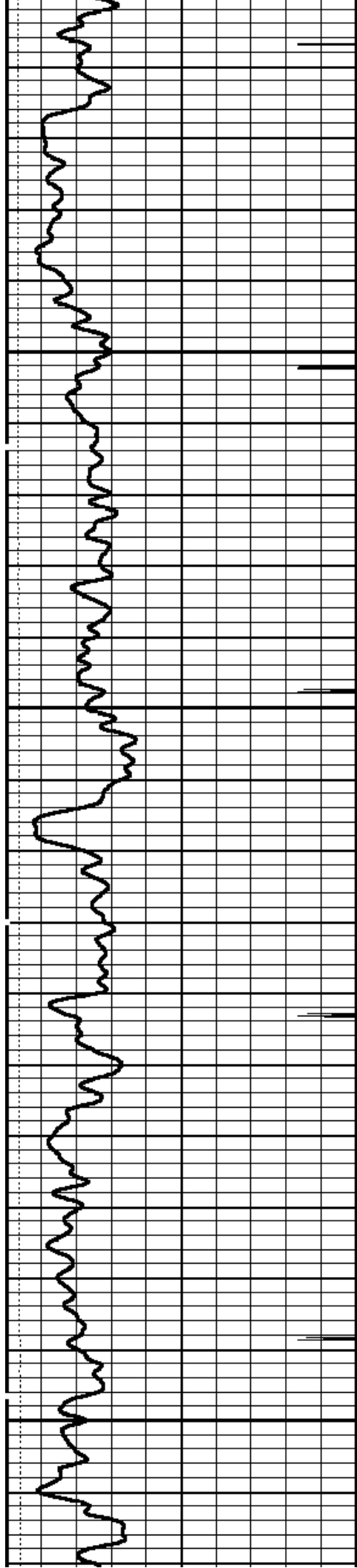
Mesa Wireline

Database File: mclin c13.db
Dataset Pathname: pass2
Presentation Format: rbtfinal
Dataset Creation: Tue Jun 12 20:05:39 2012
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)		





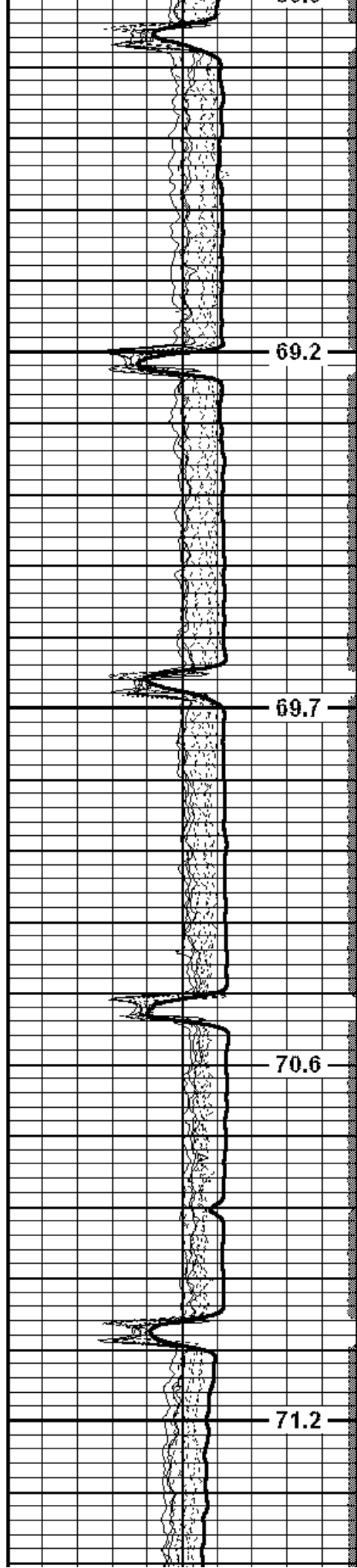


400

450

500

550

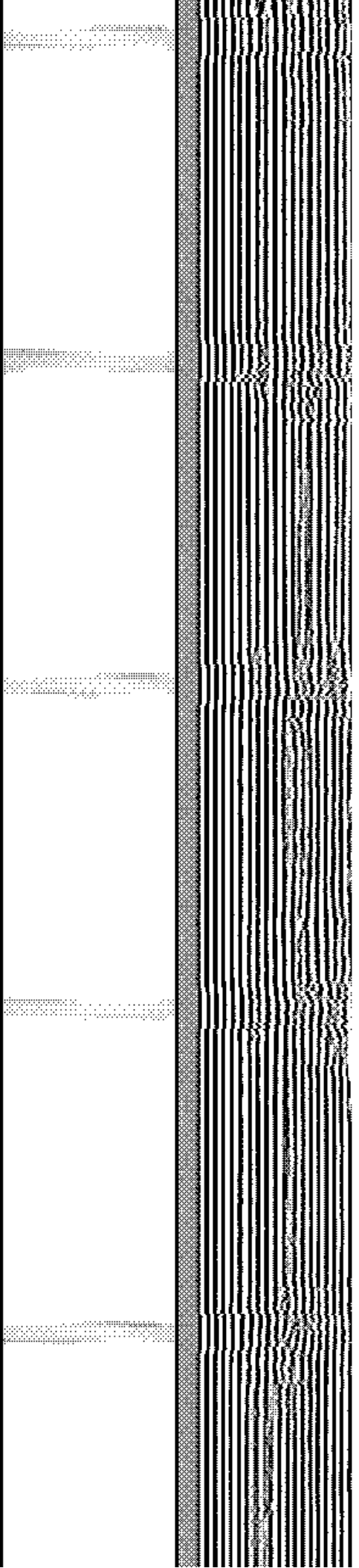


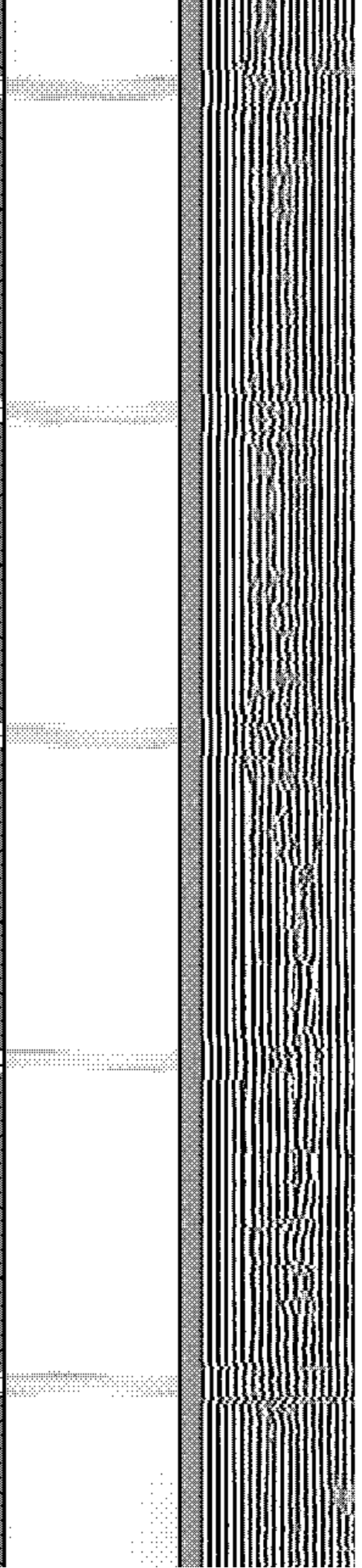
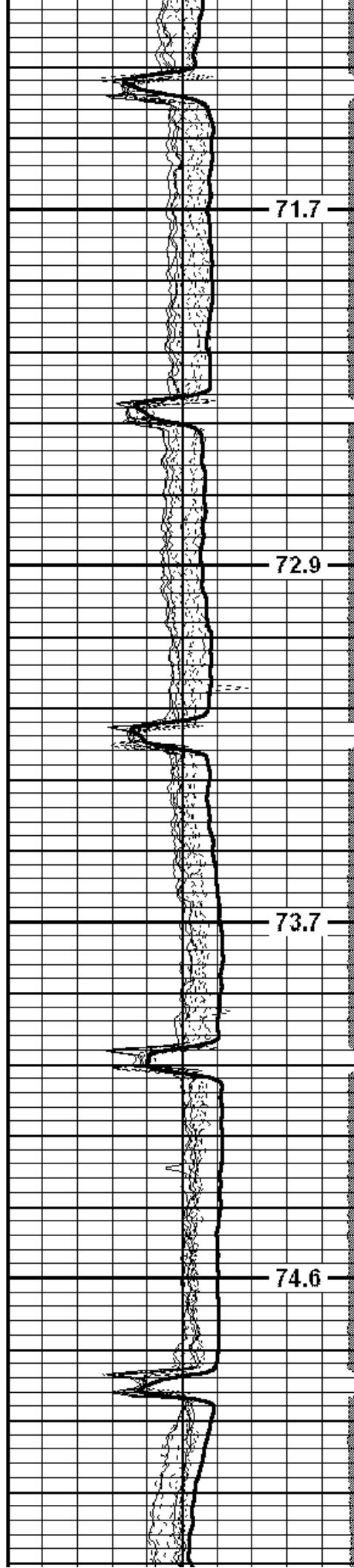
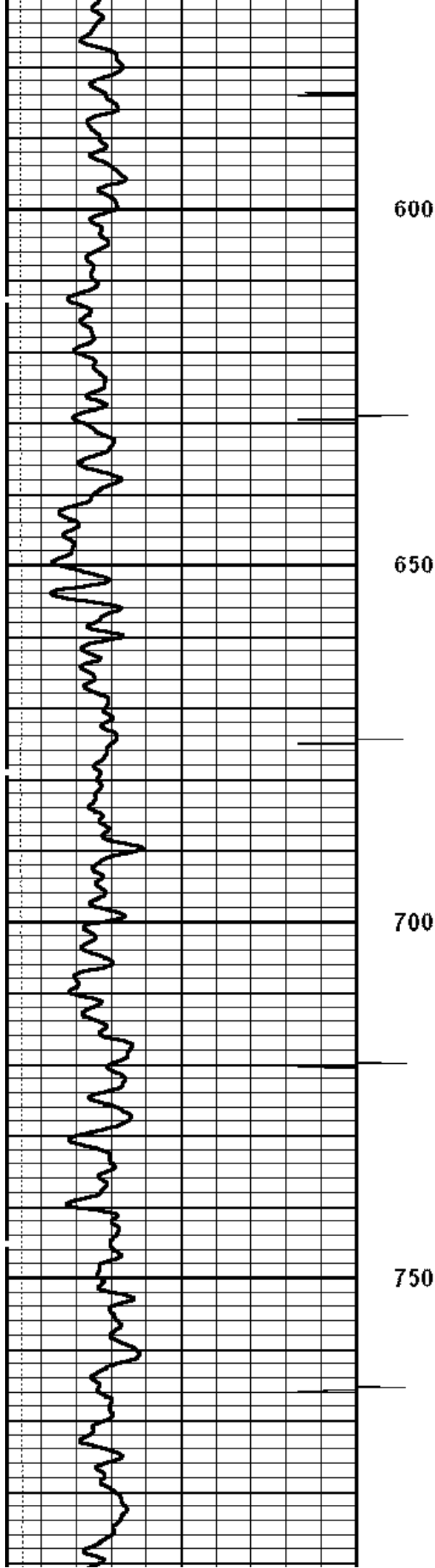
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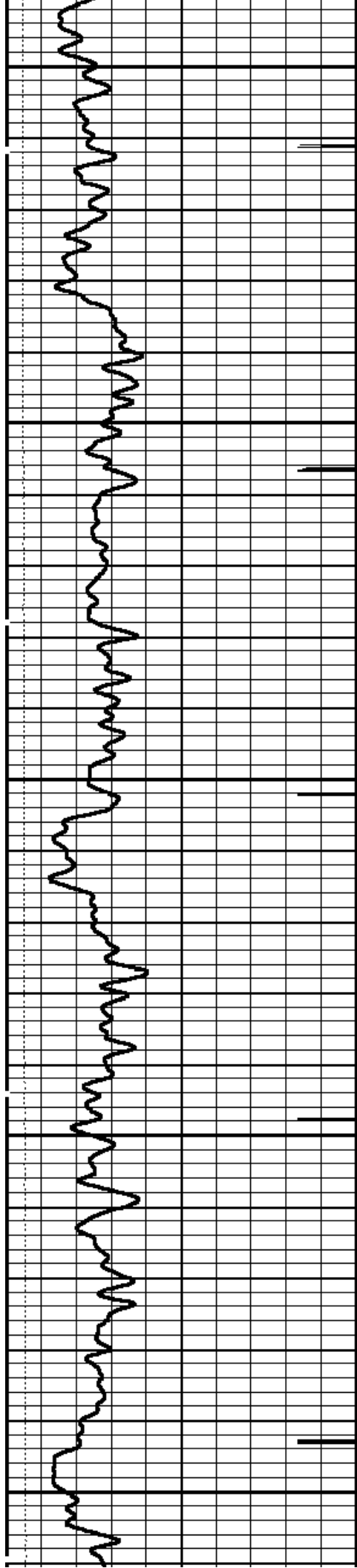
69.7

70.6

71.2







800

850

900

950

1000

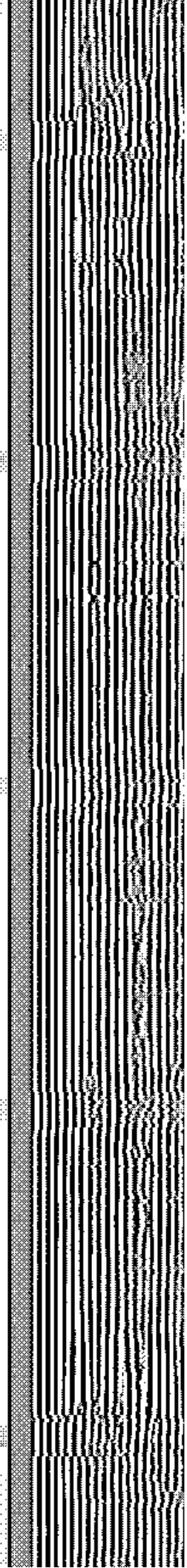
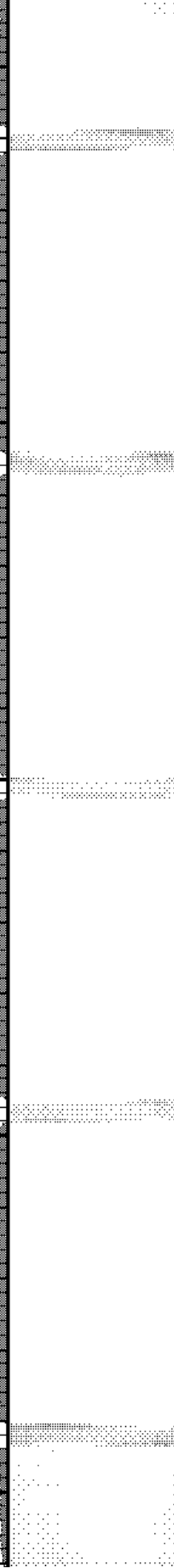
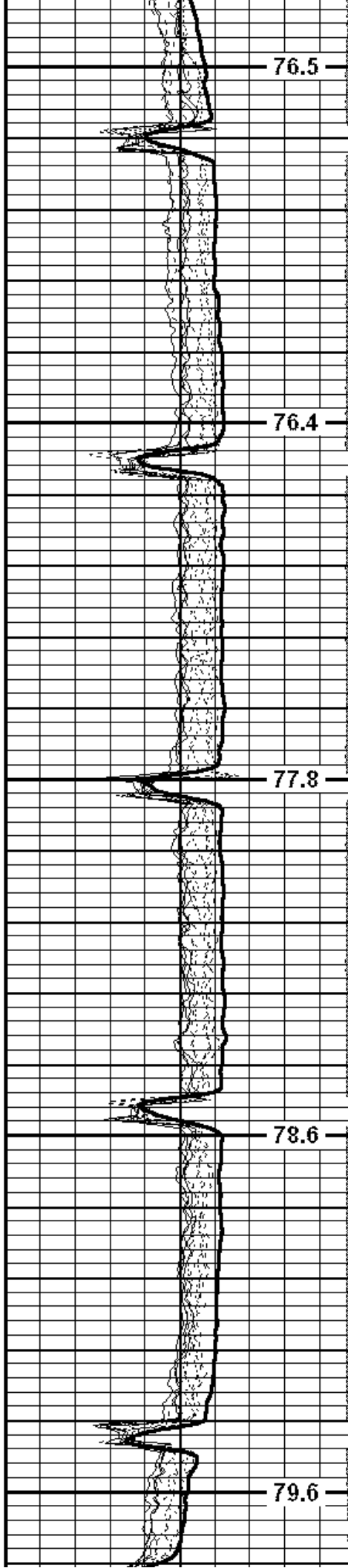
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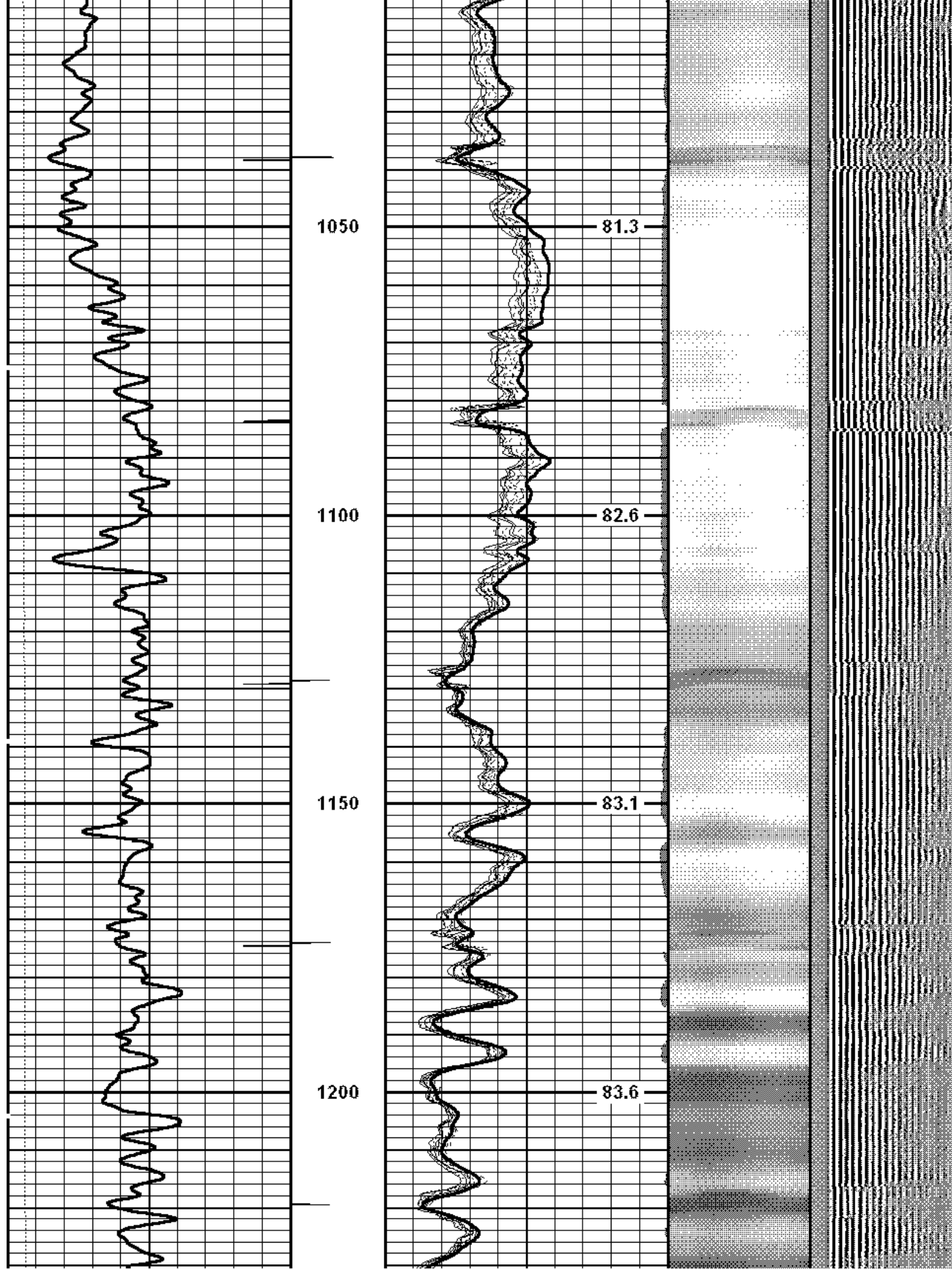
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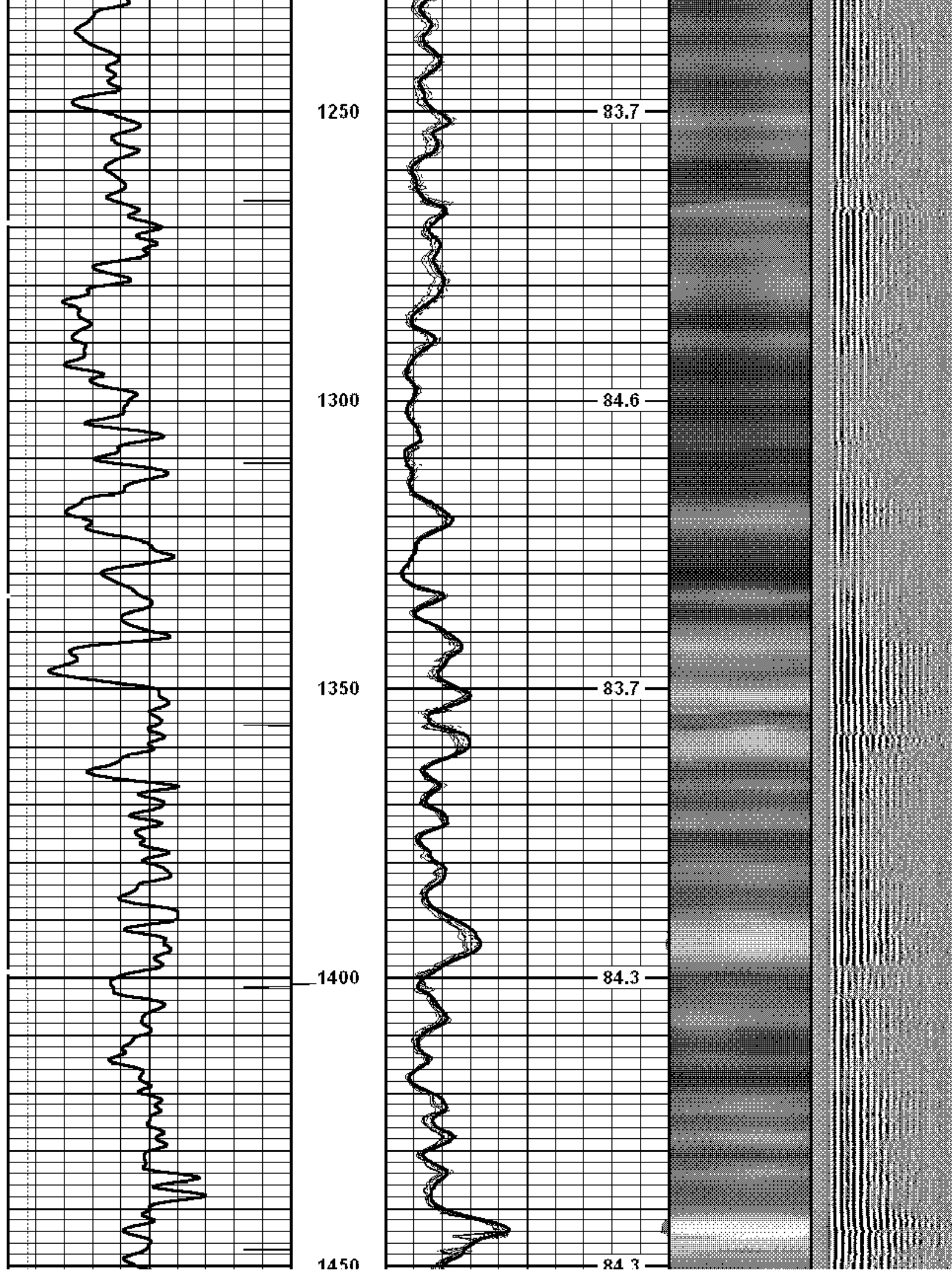
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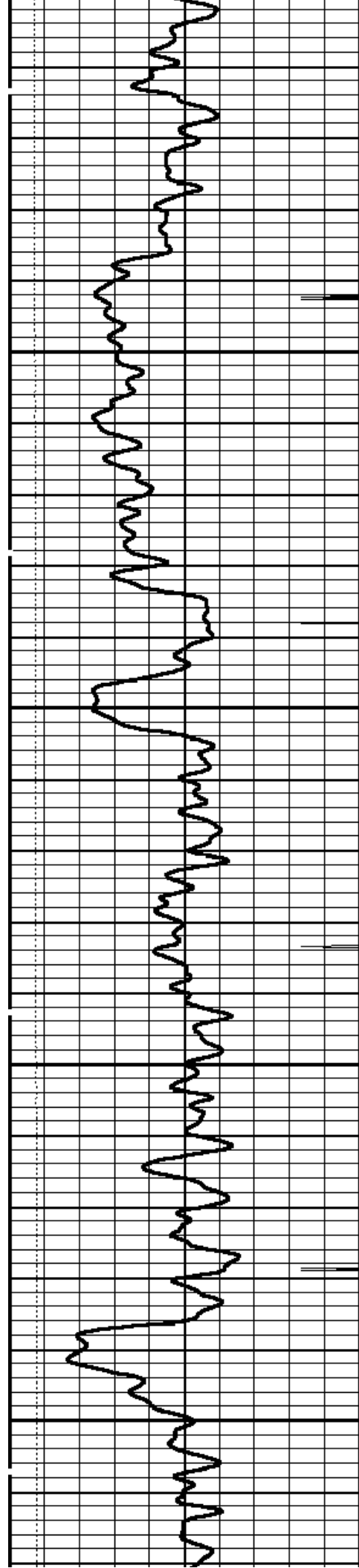
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79.6







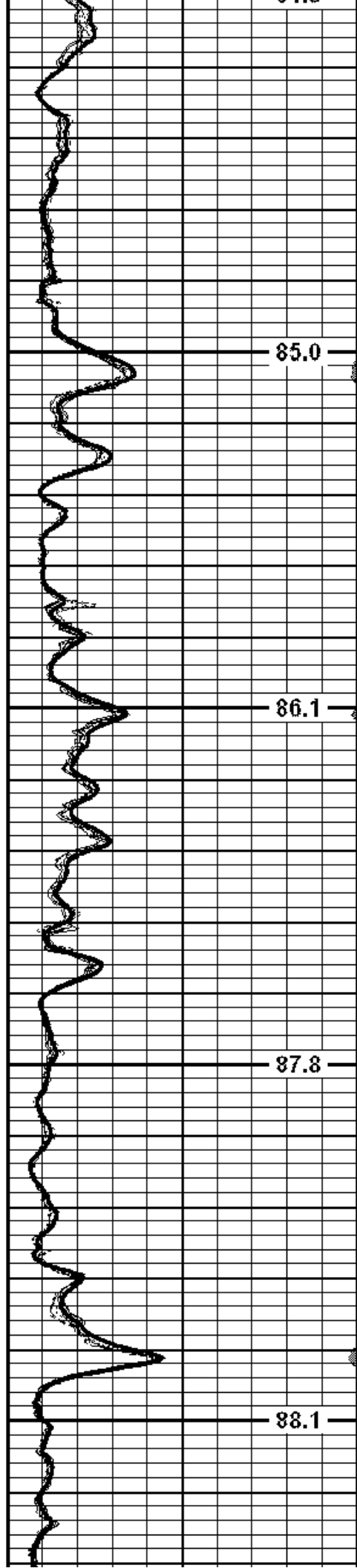


1500

1550

1600

1650

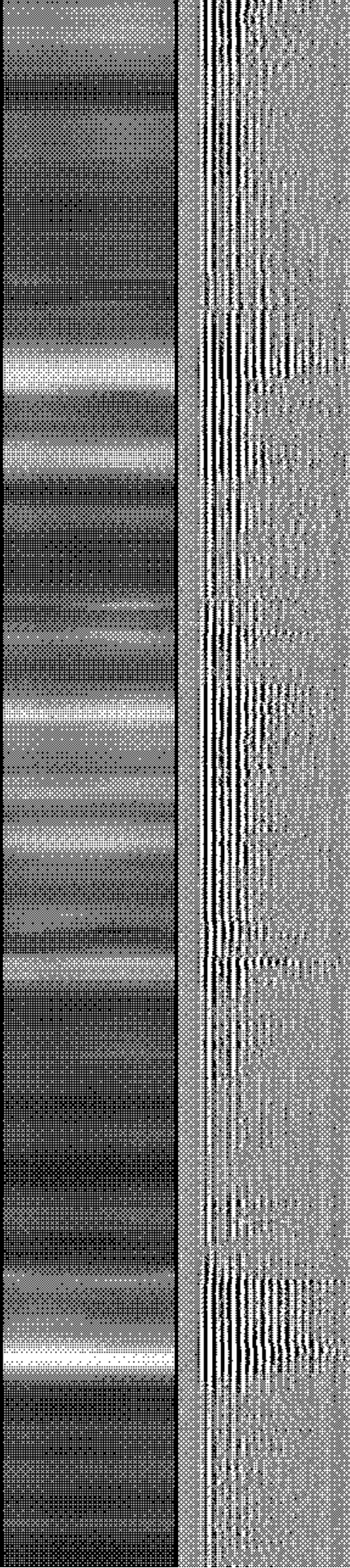


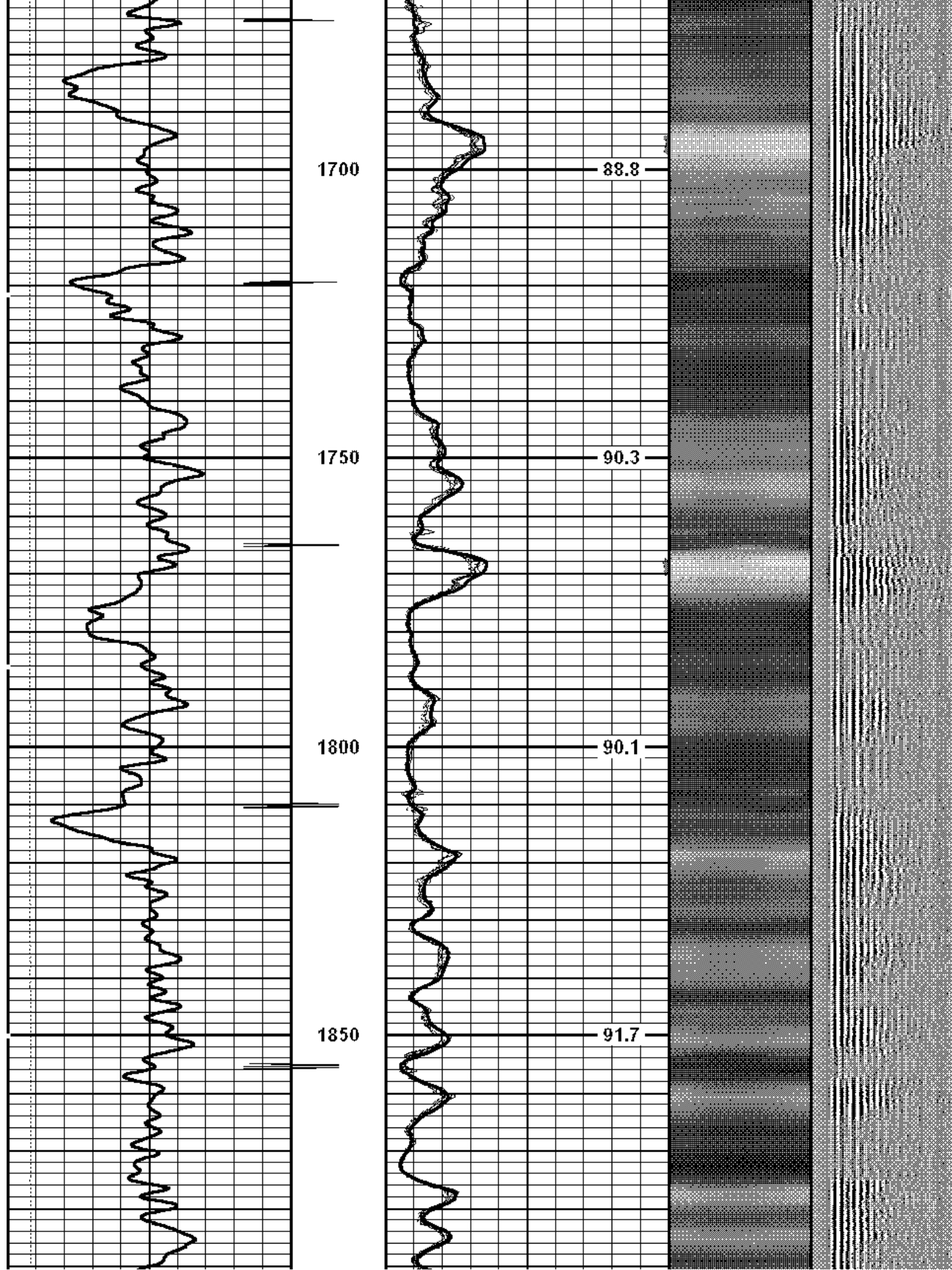
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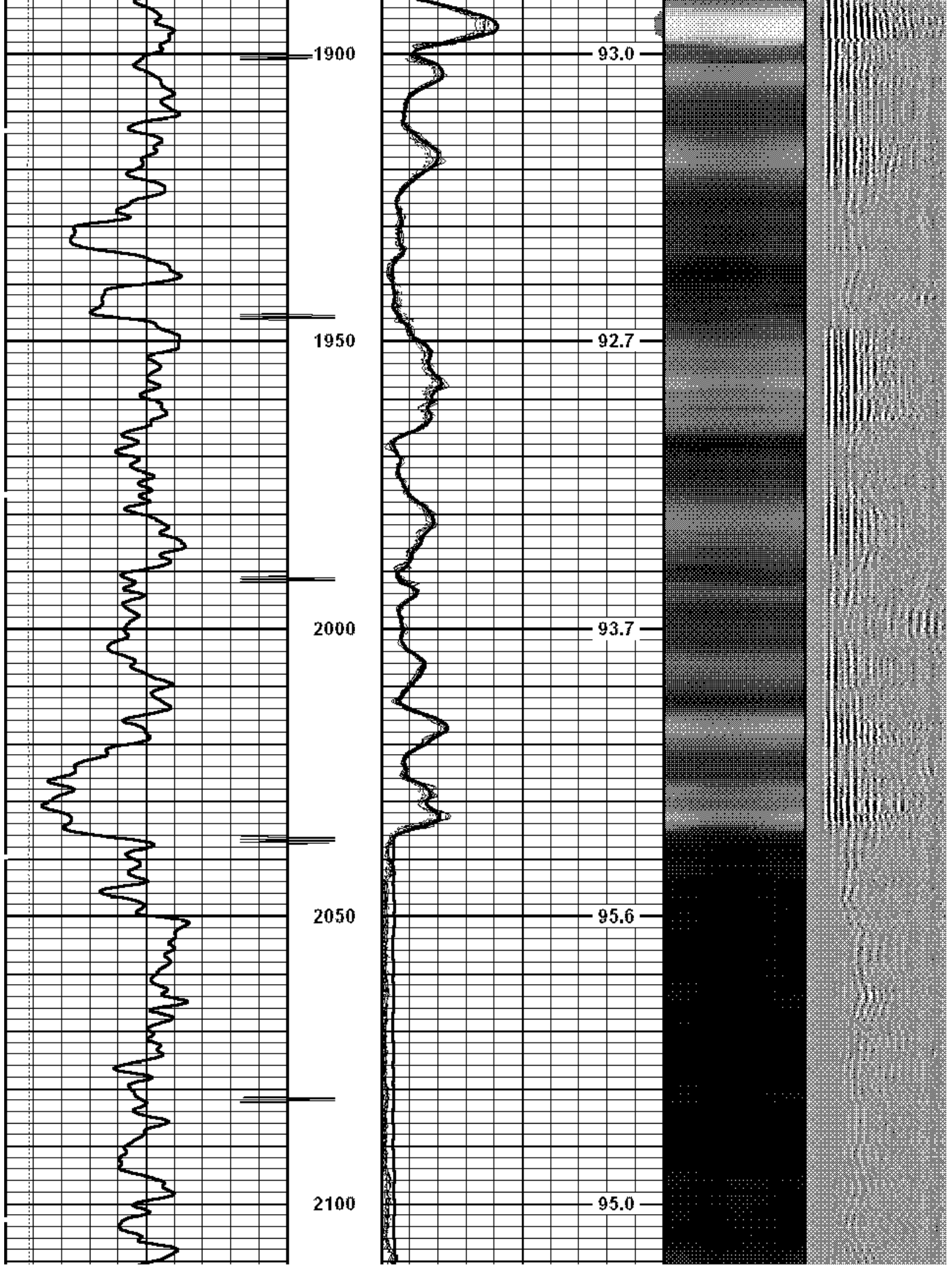
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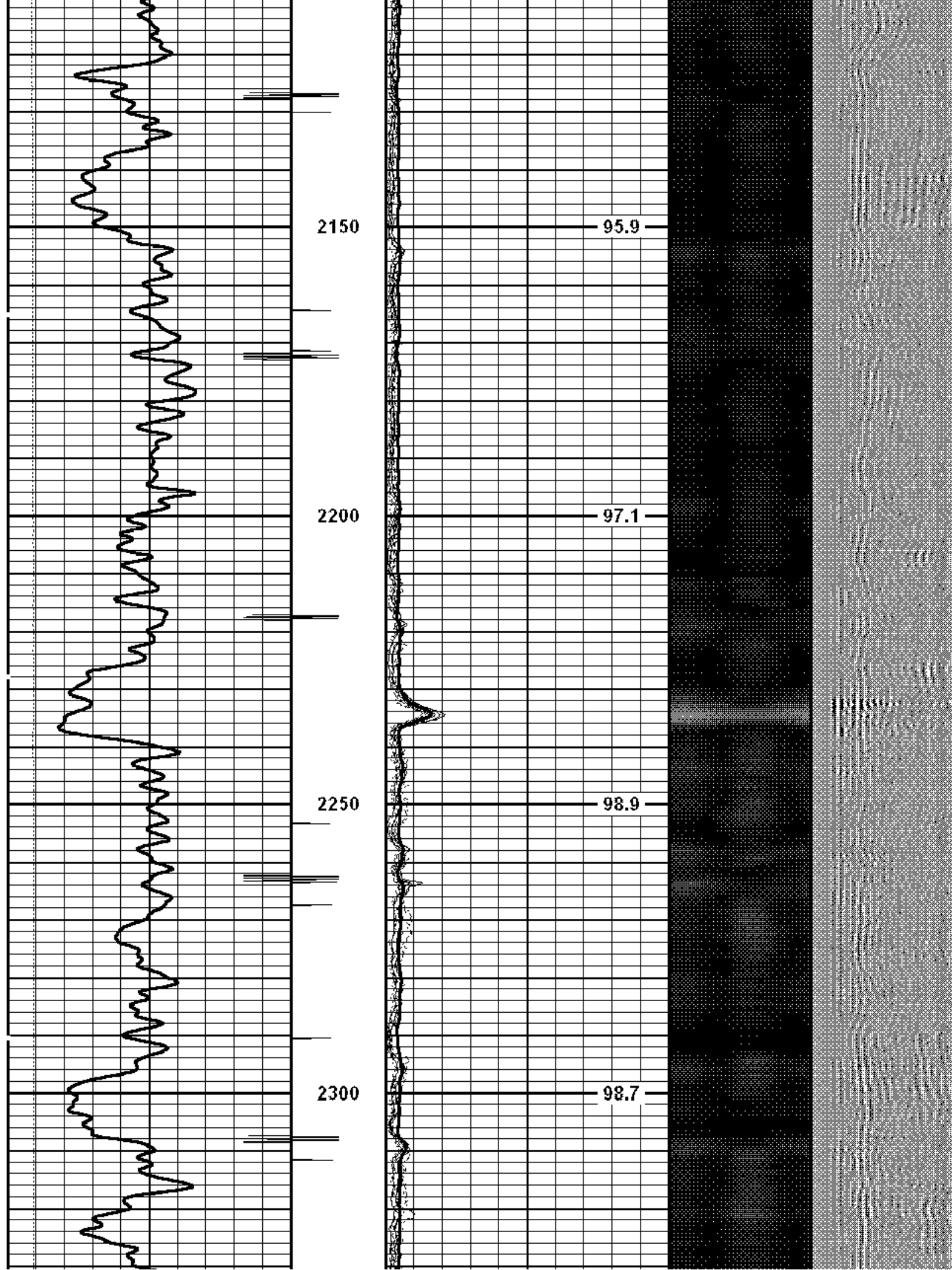
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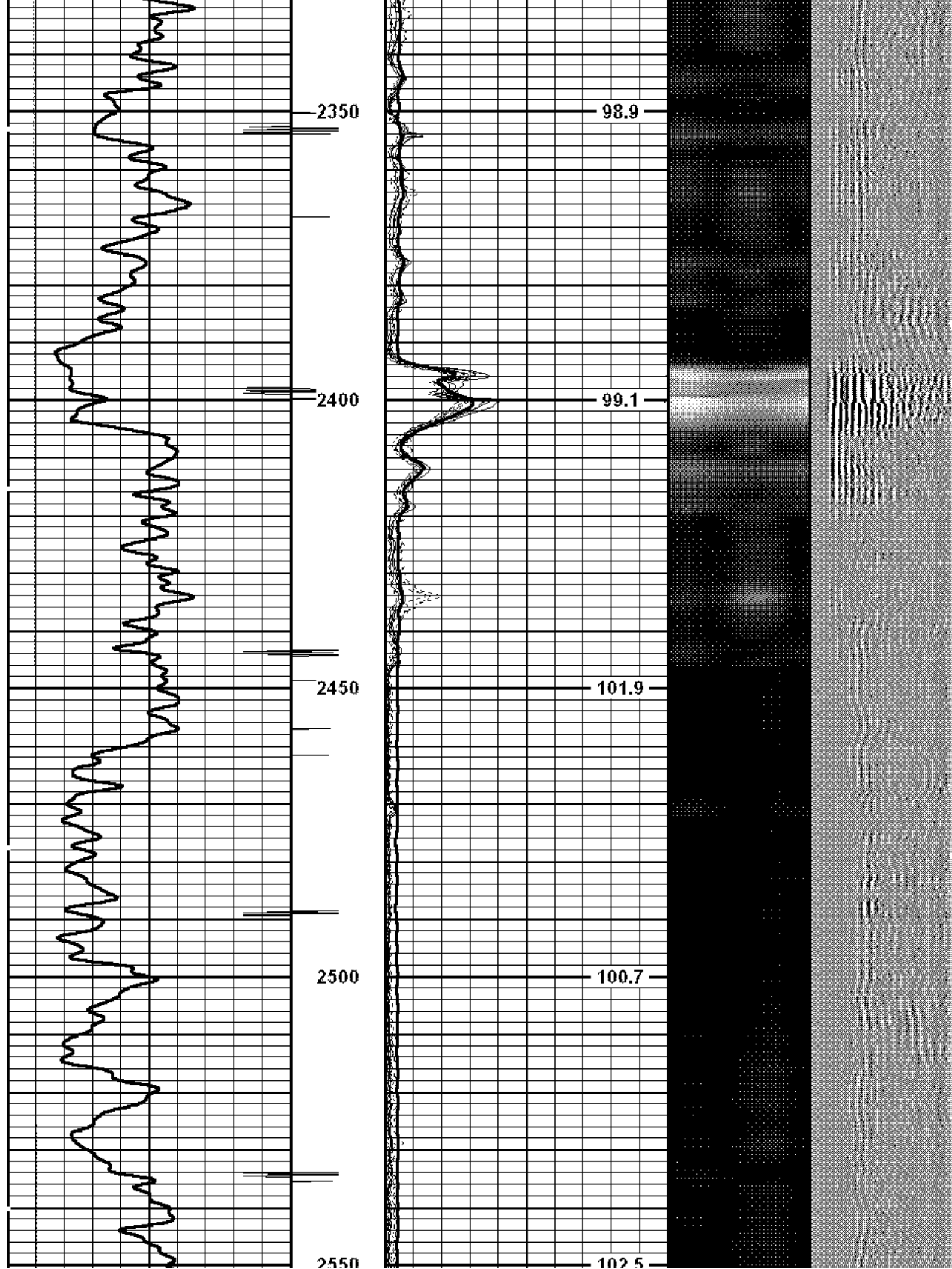
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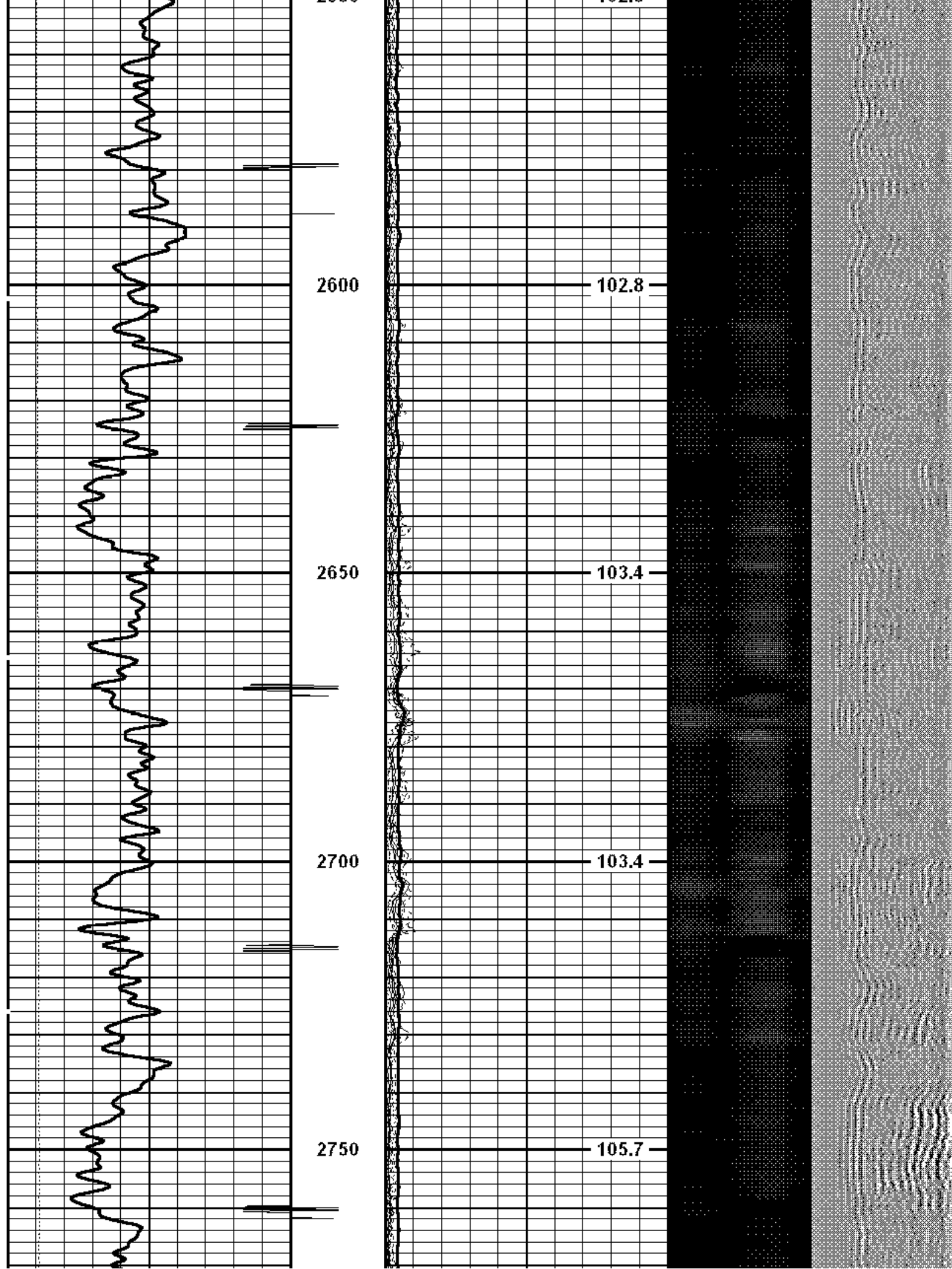


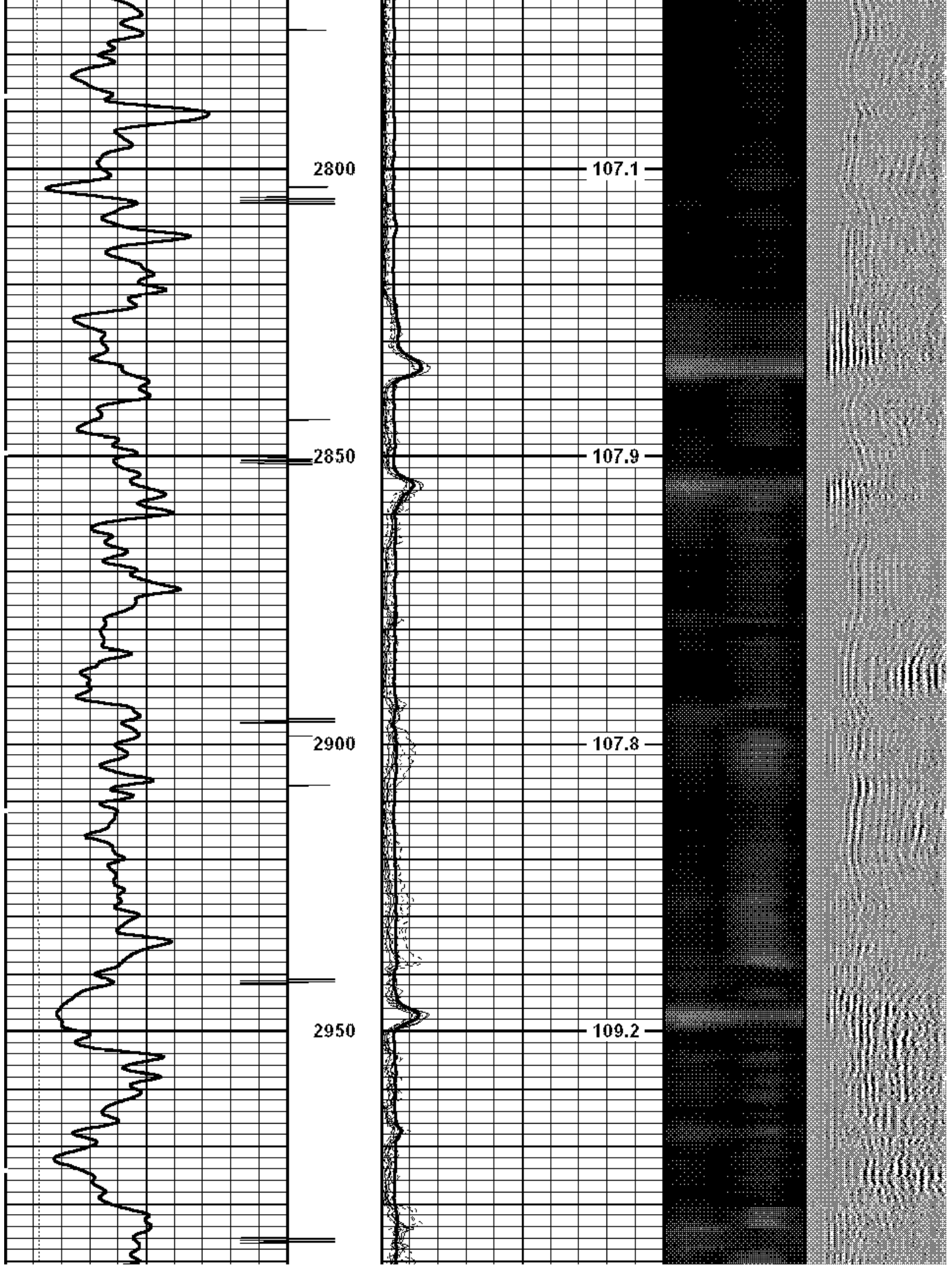


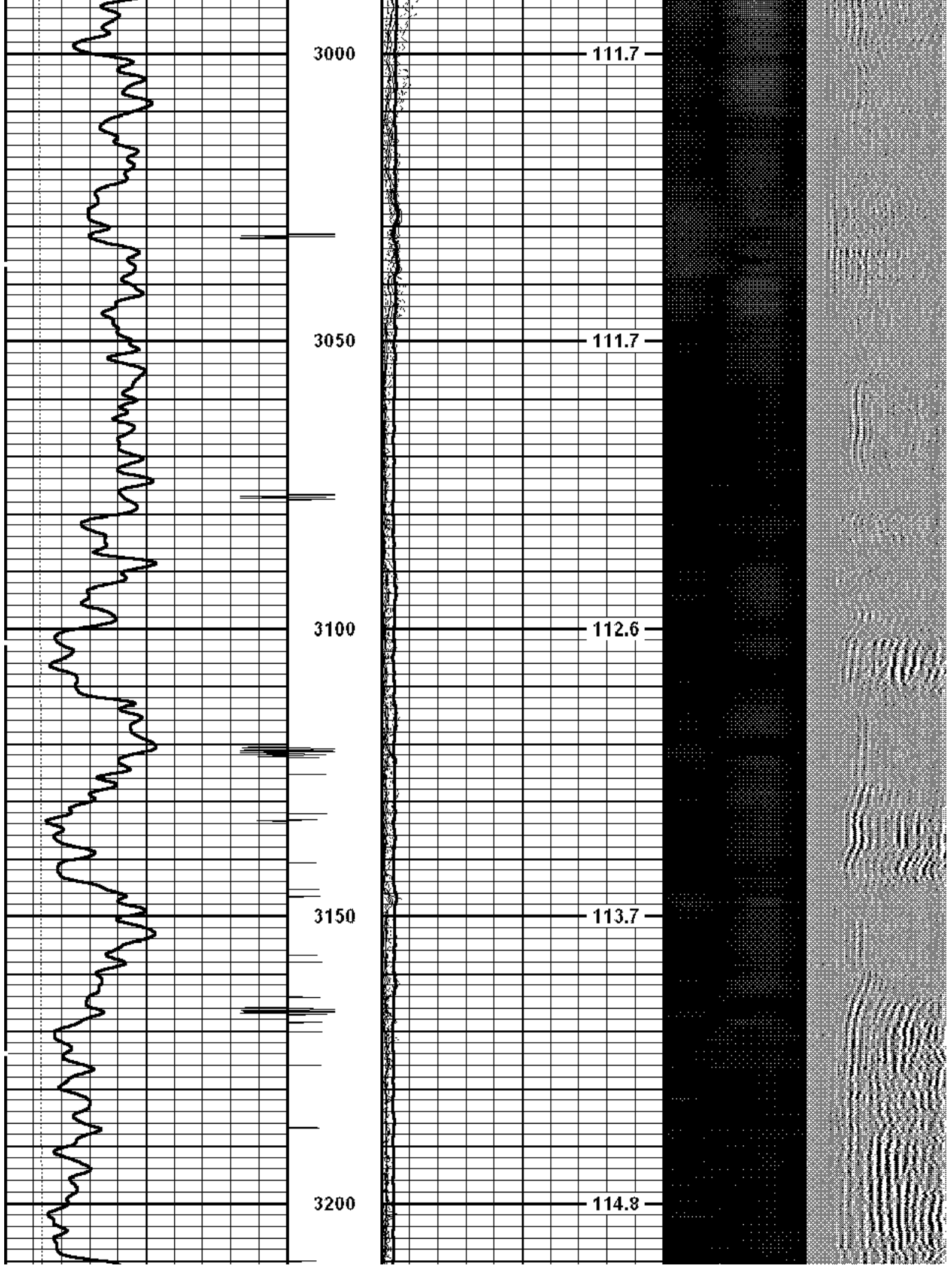


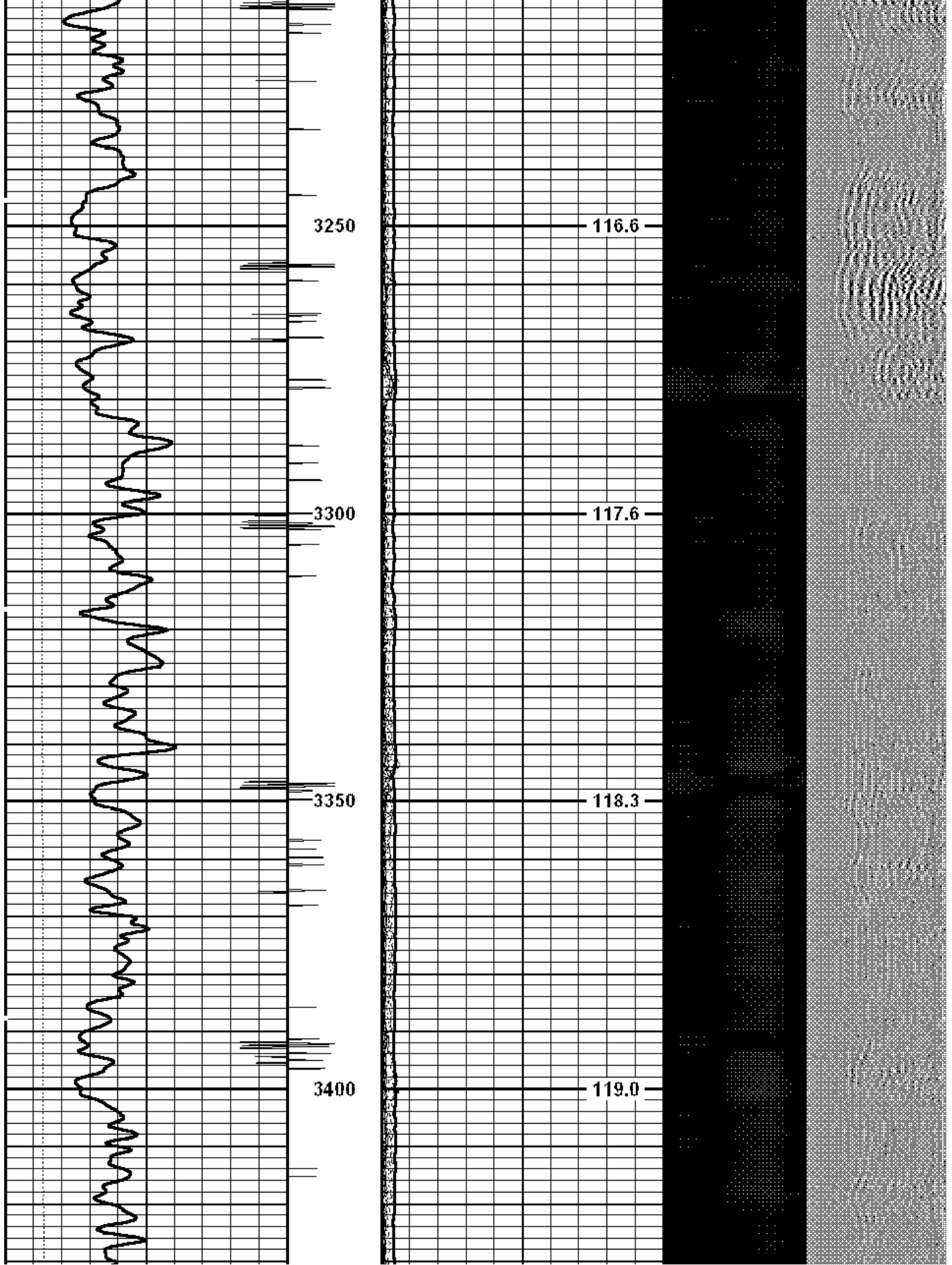


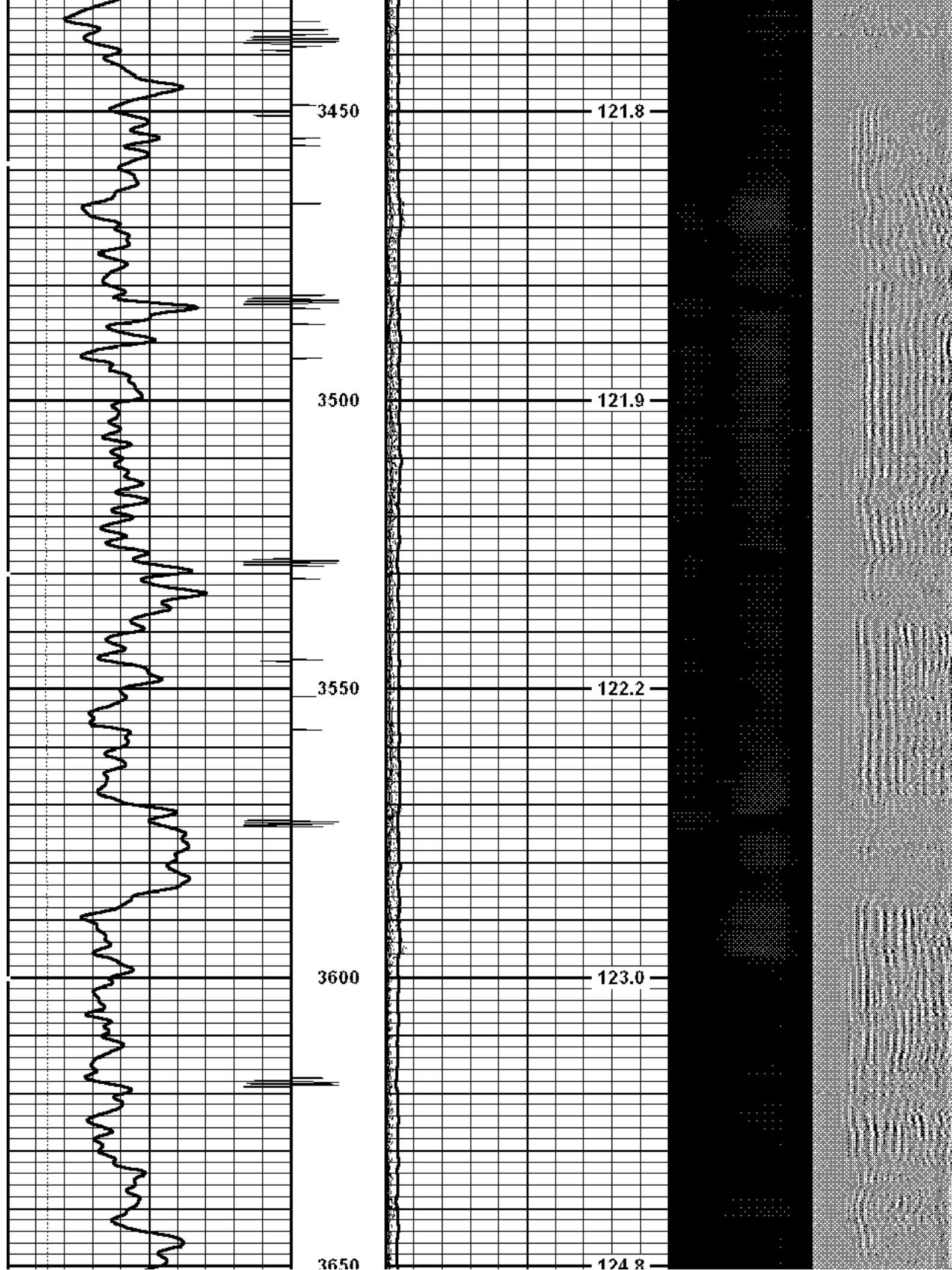


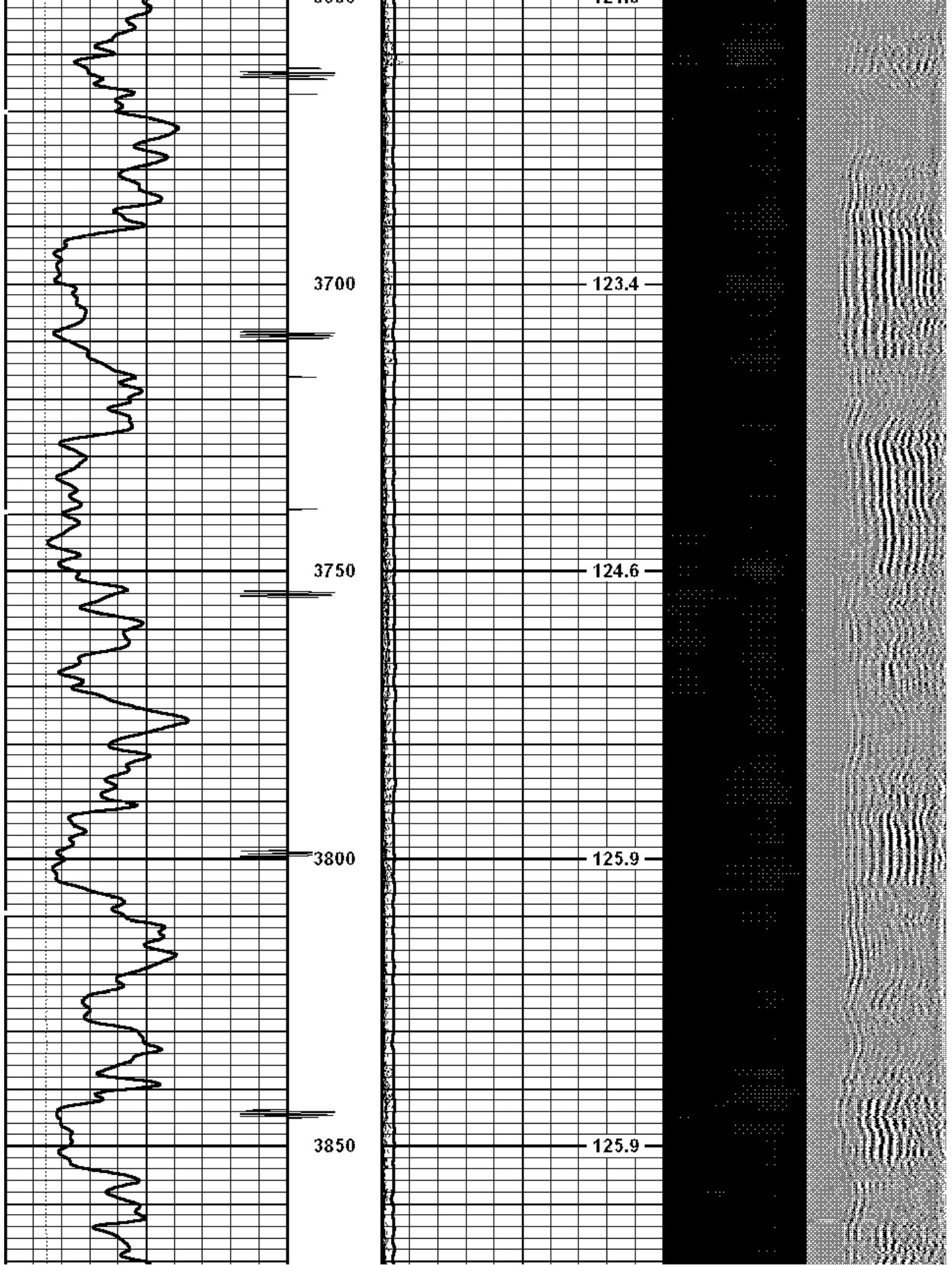


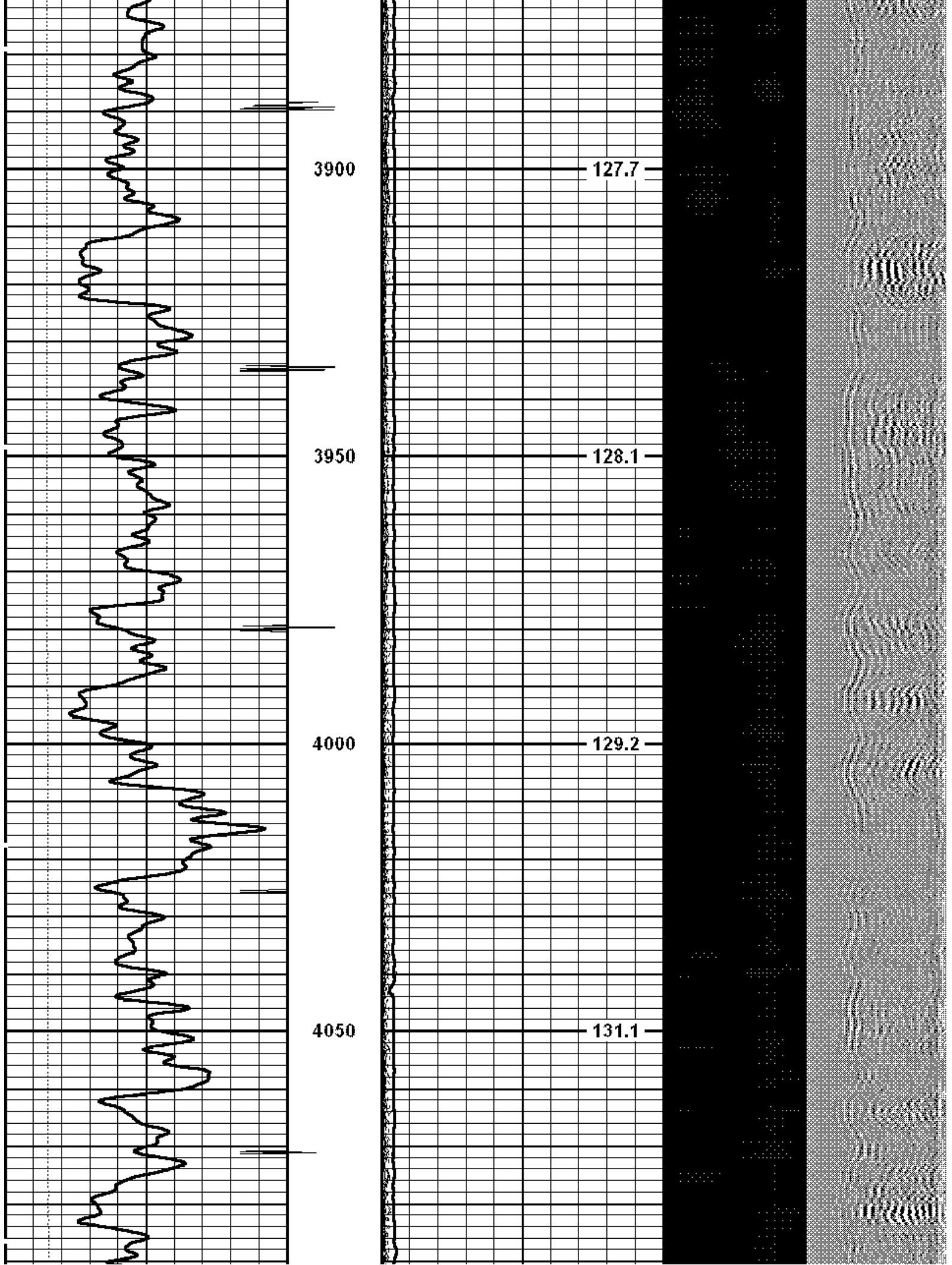


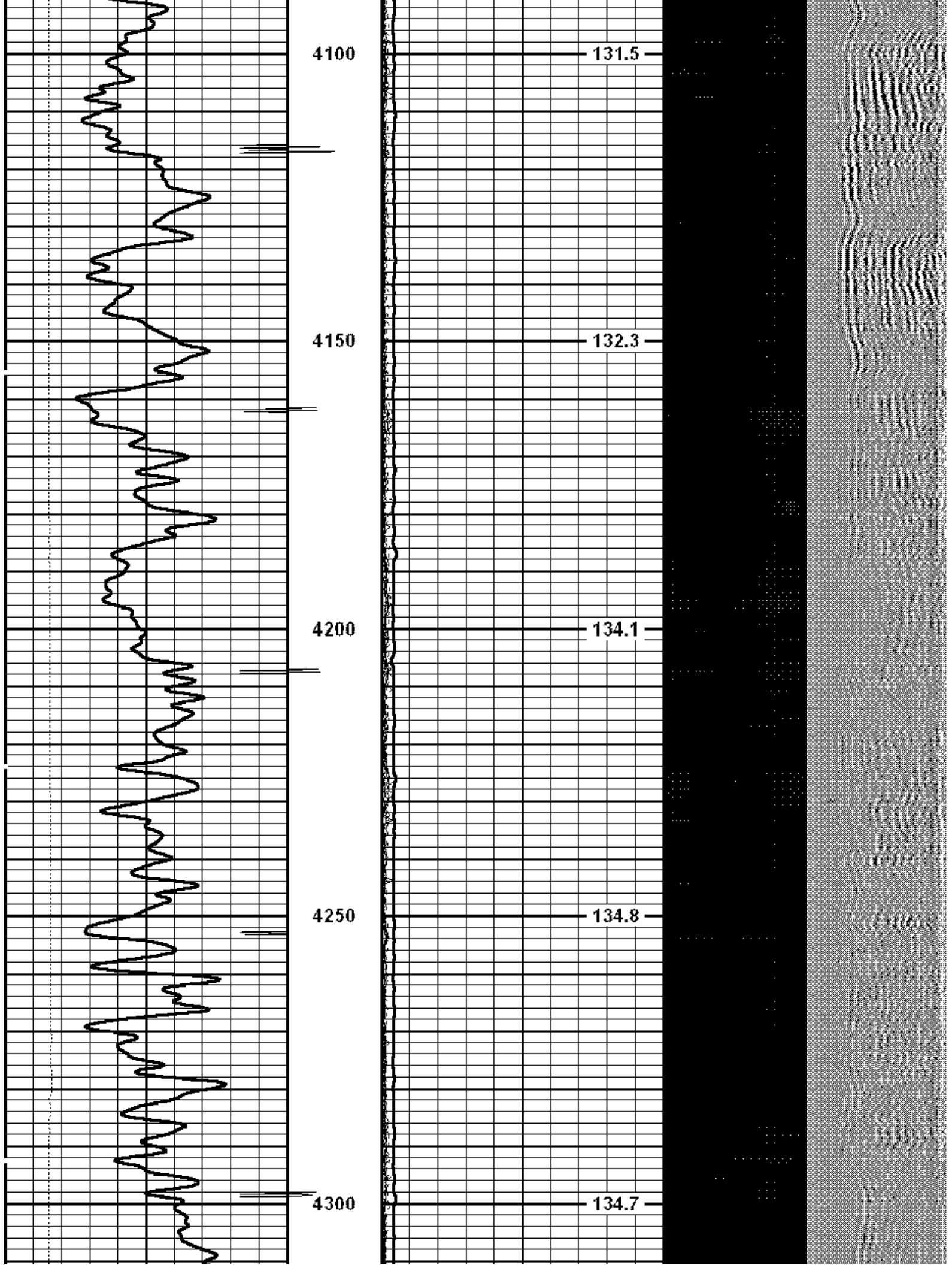


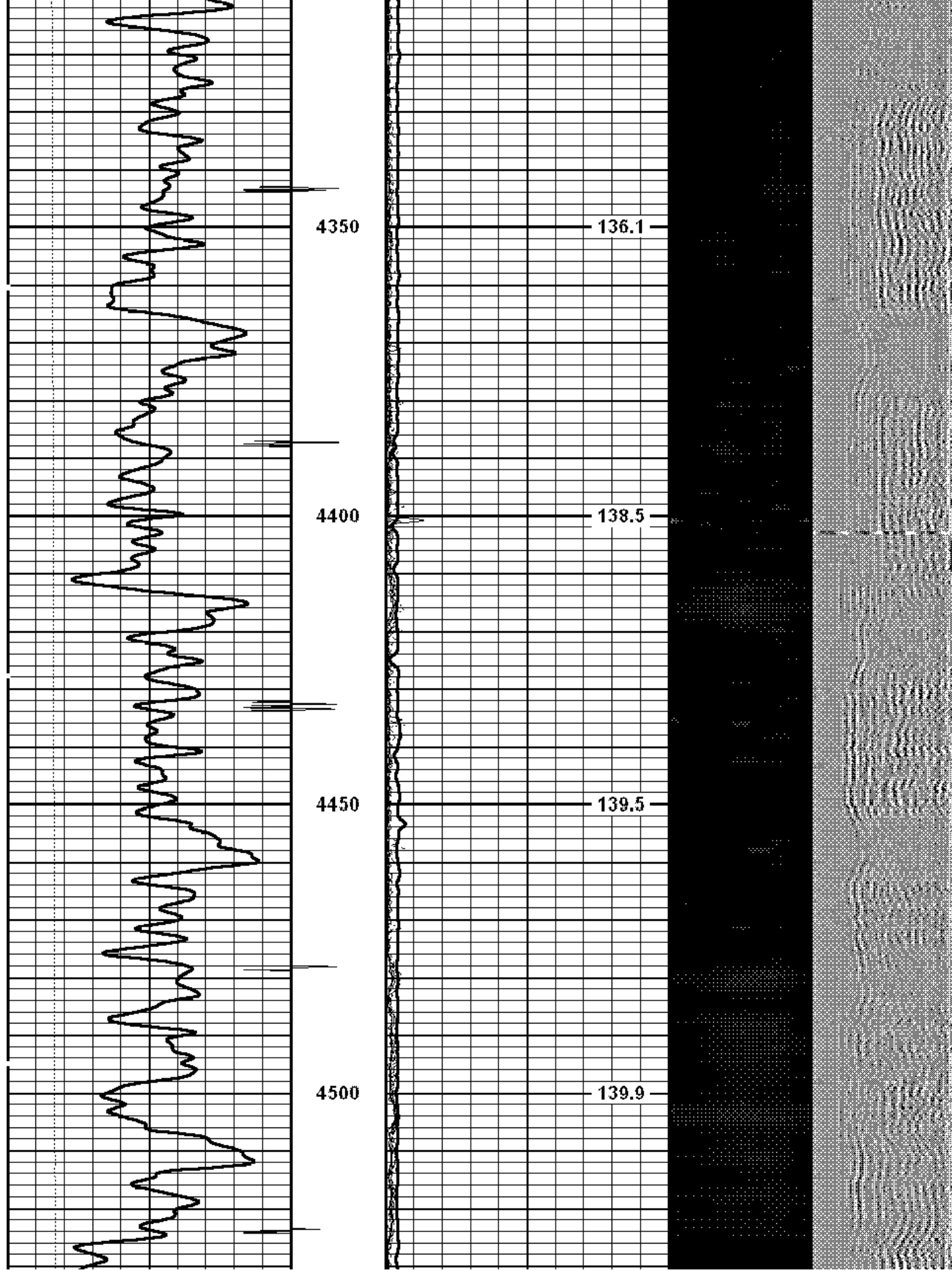


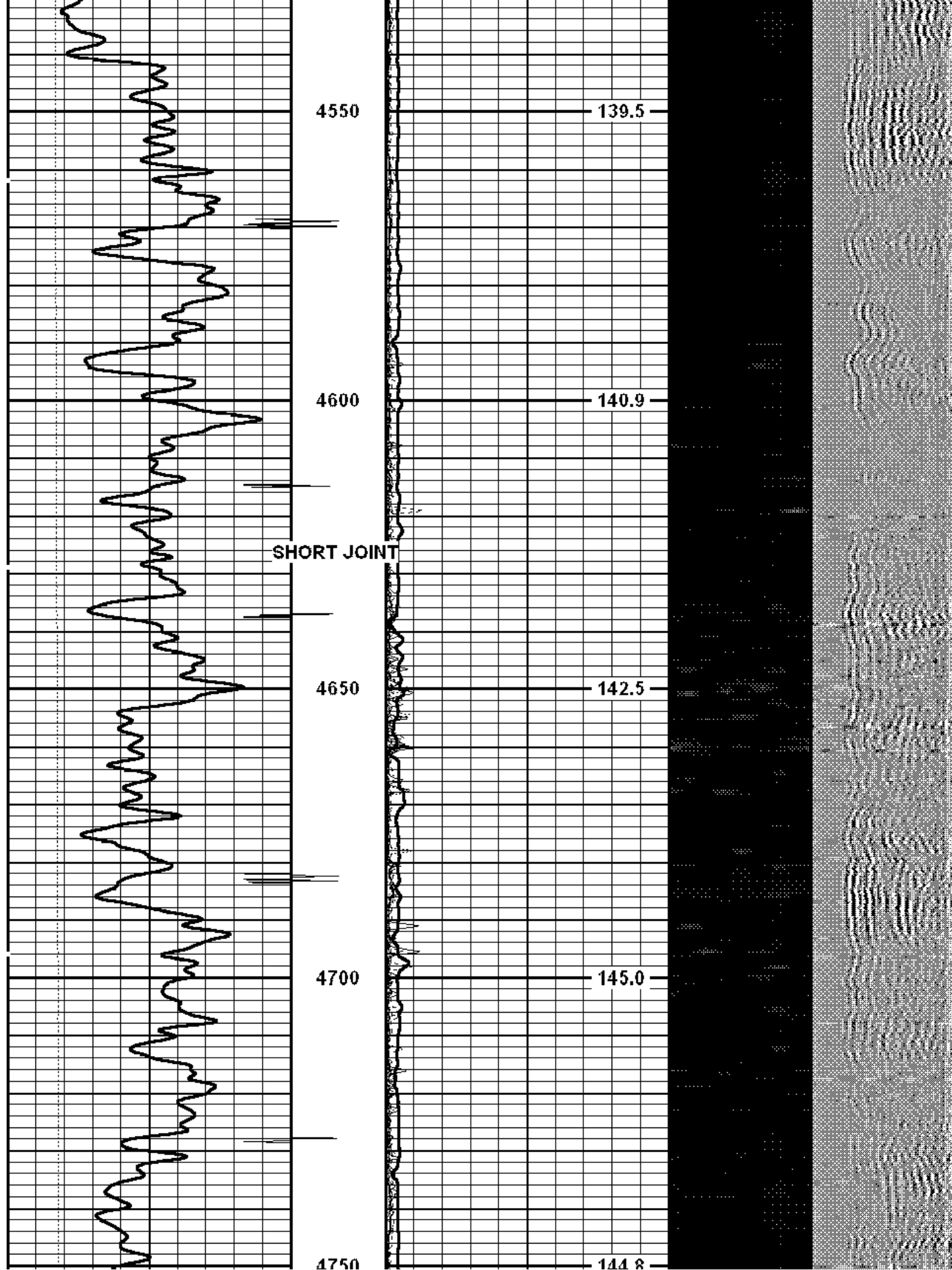


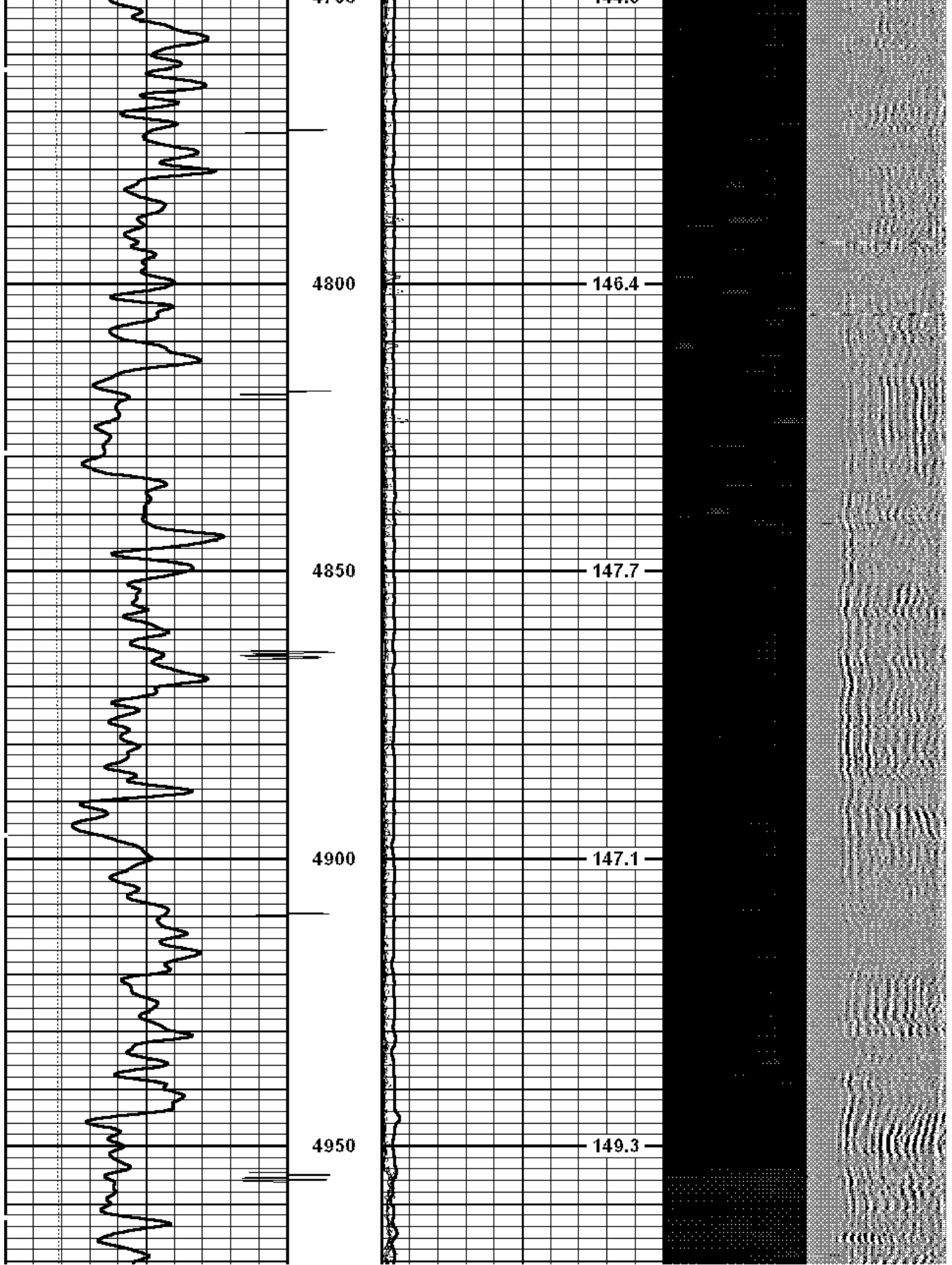


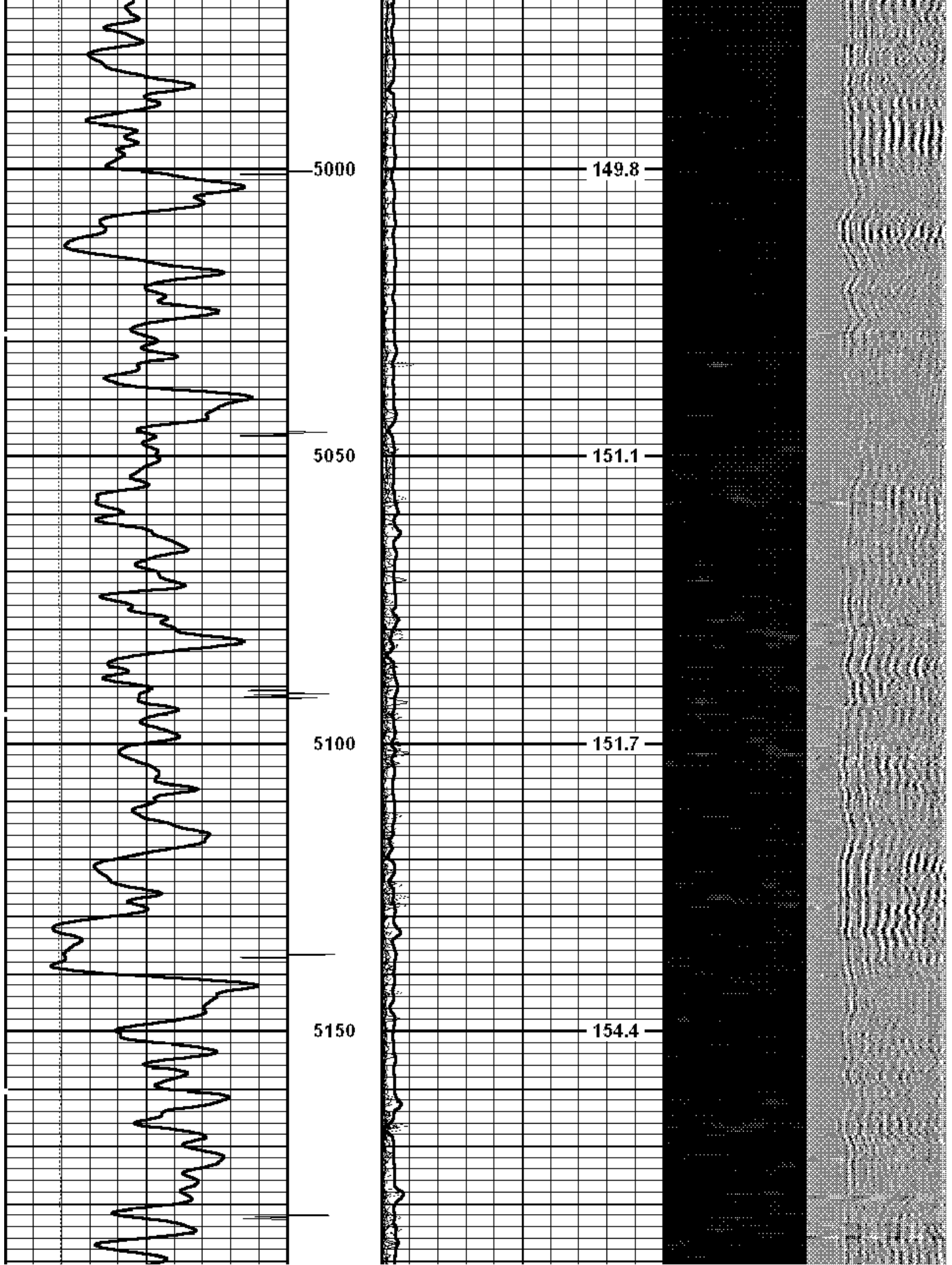


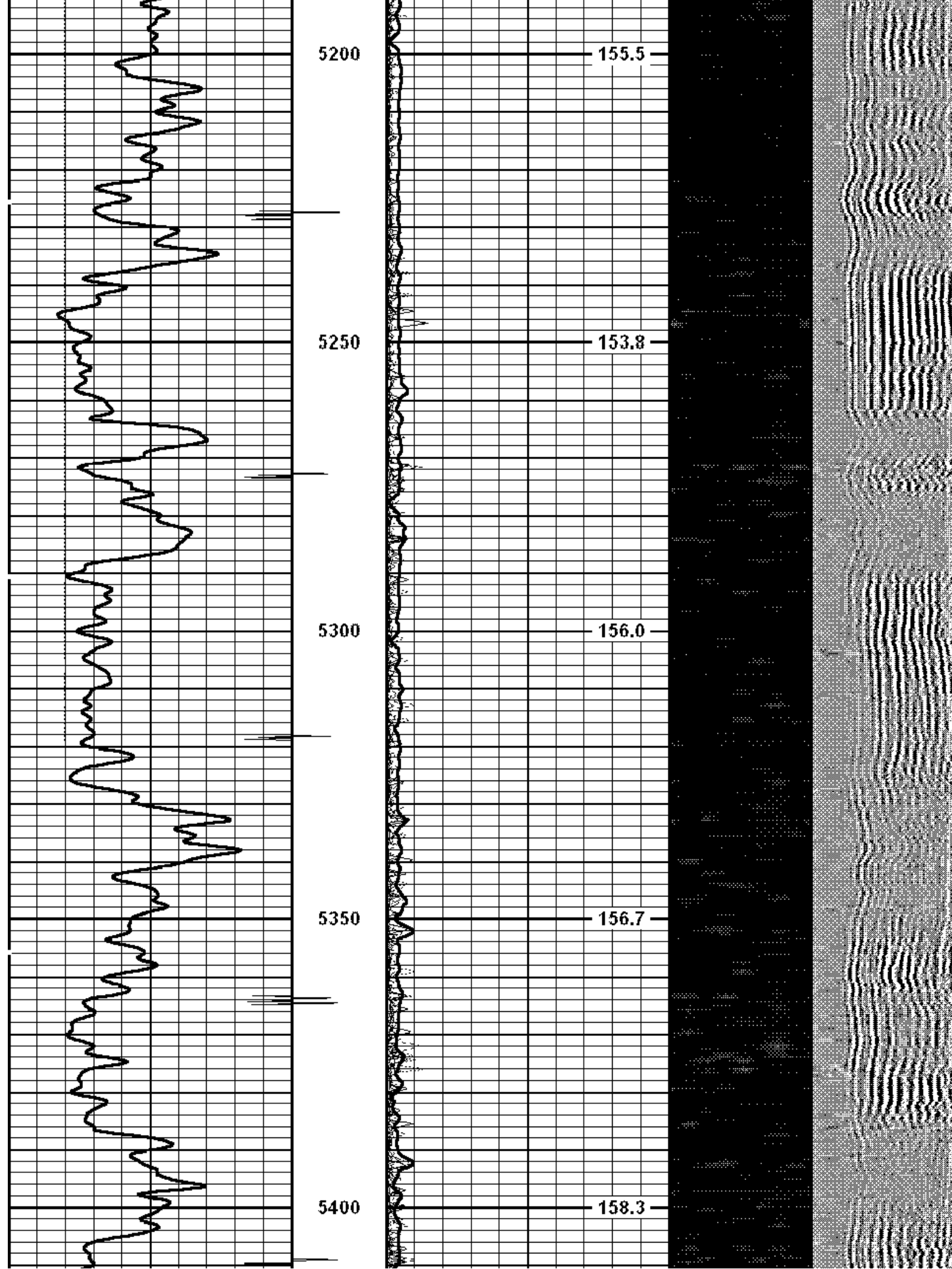


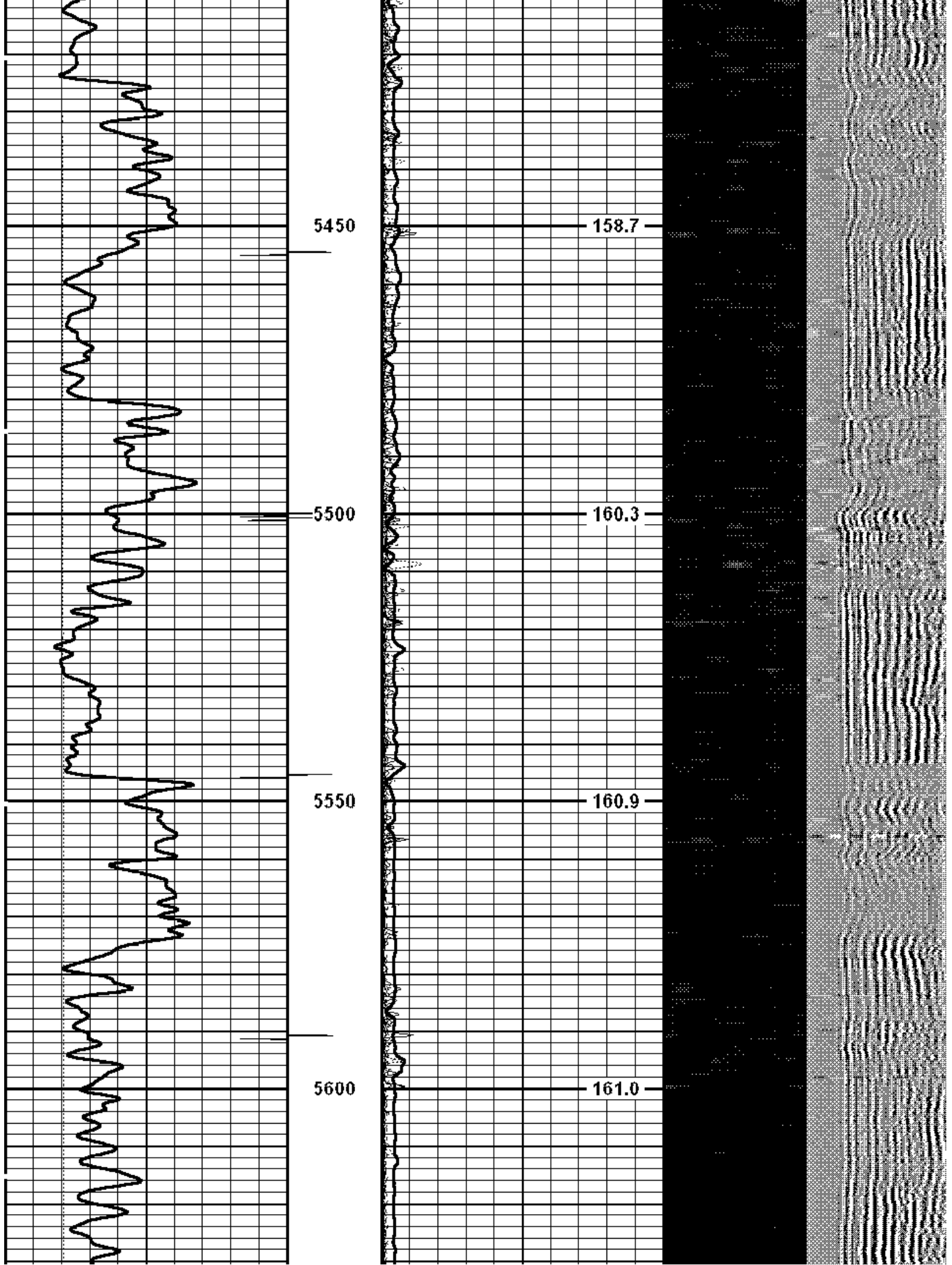


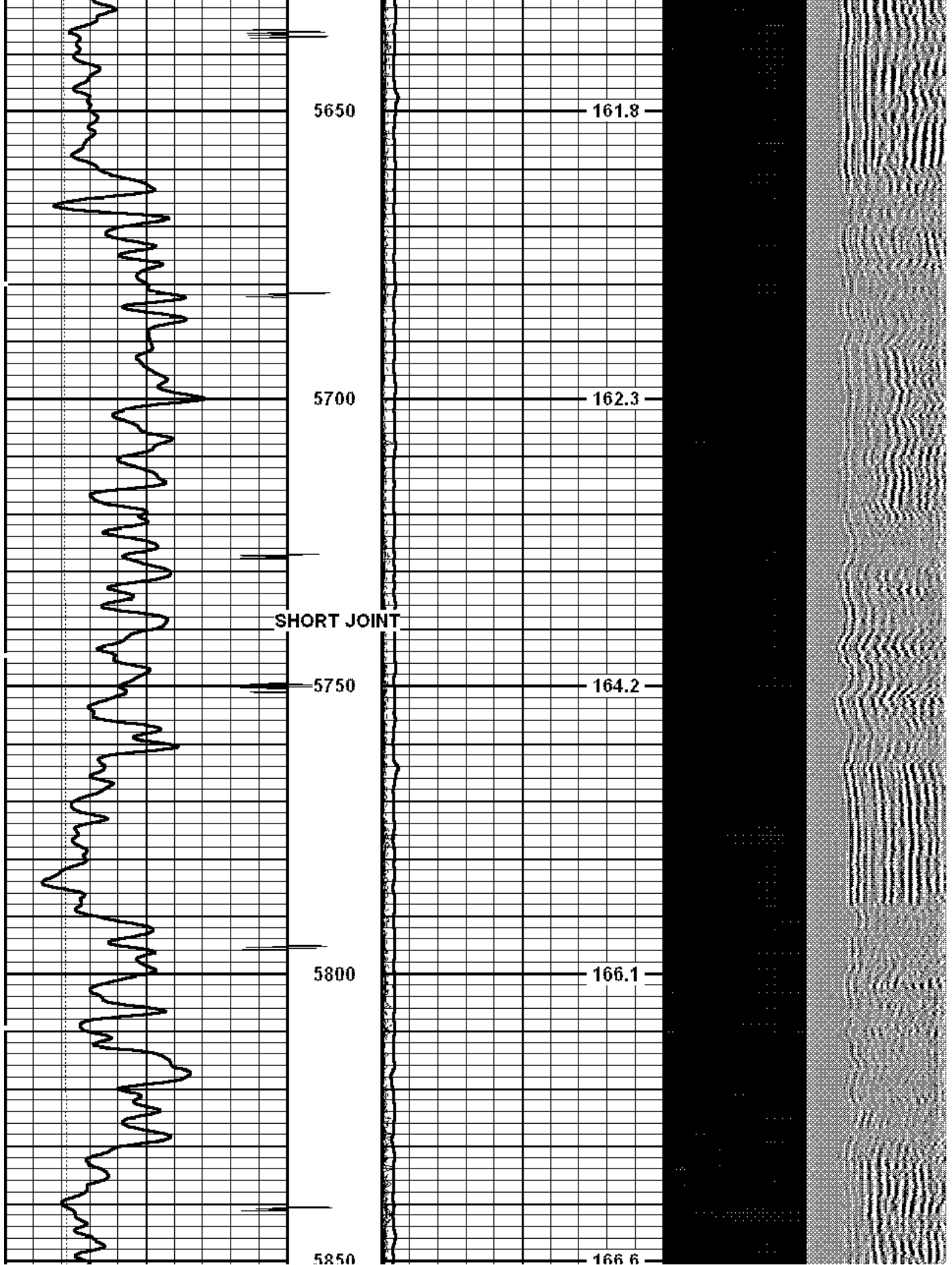


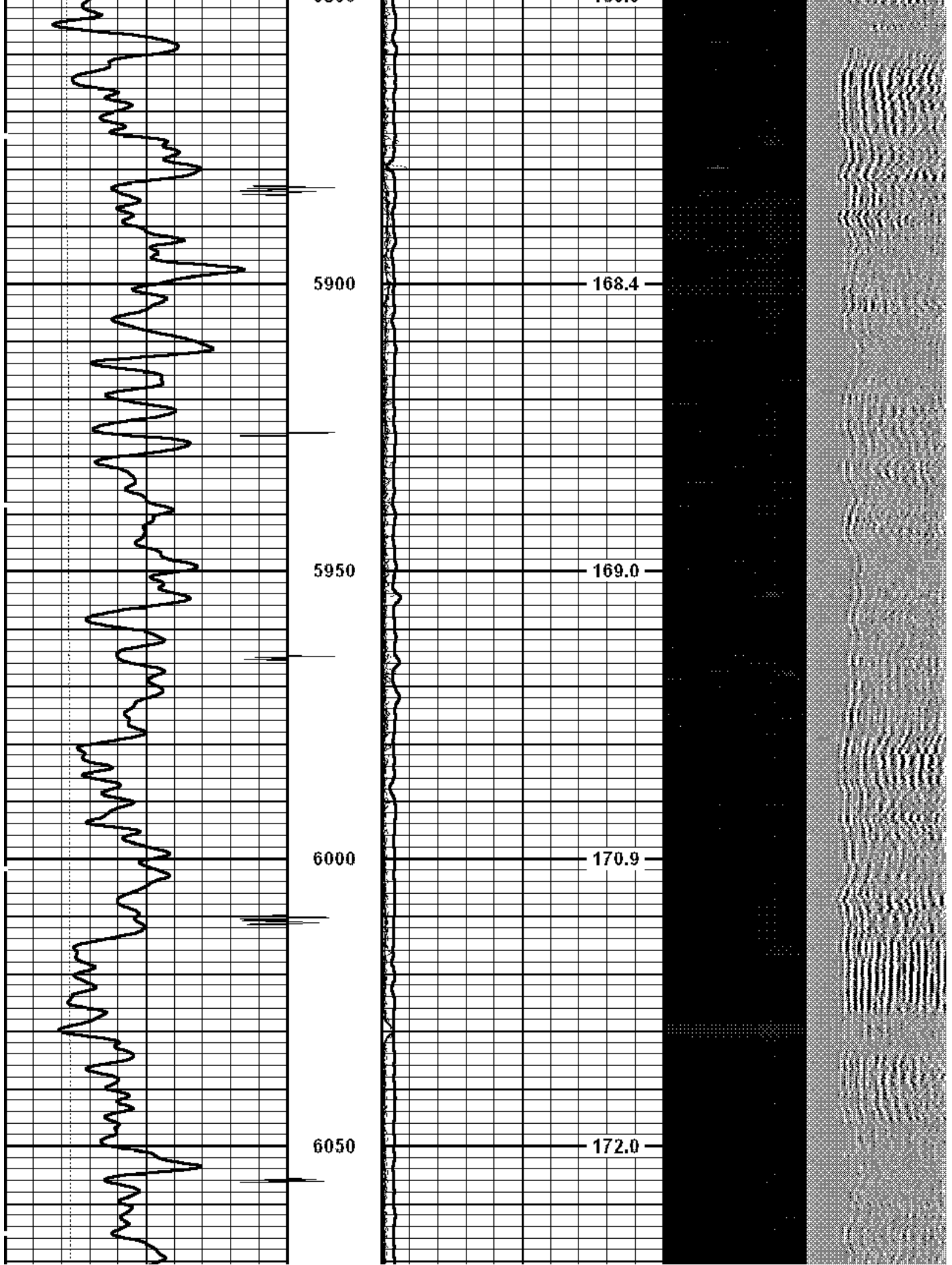


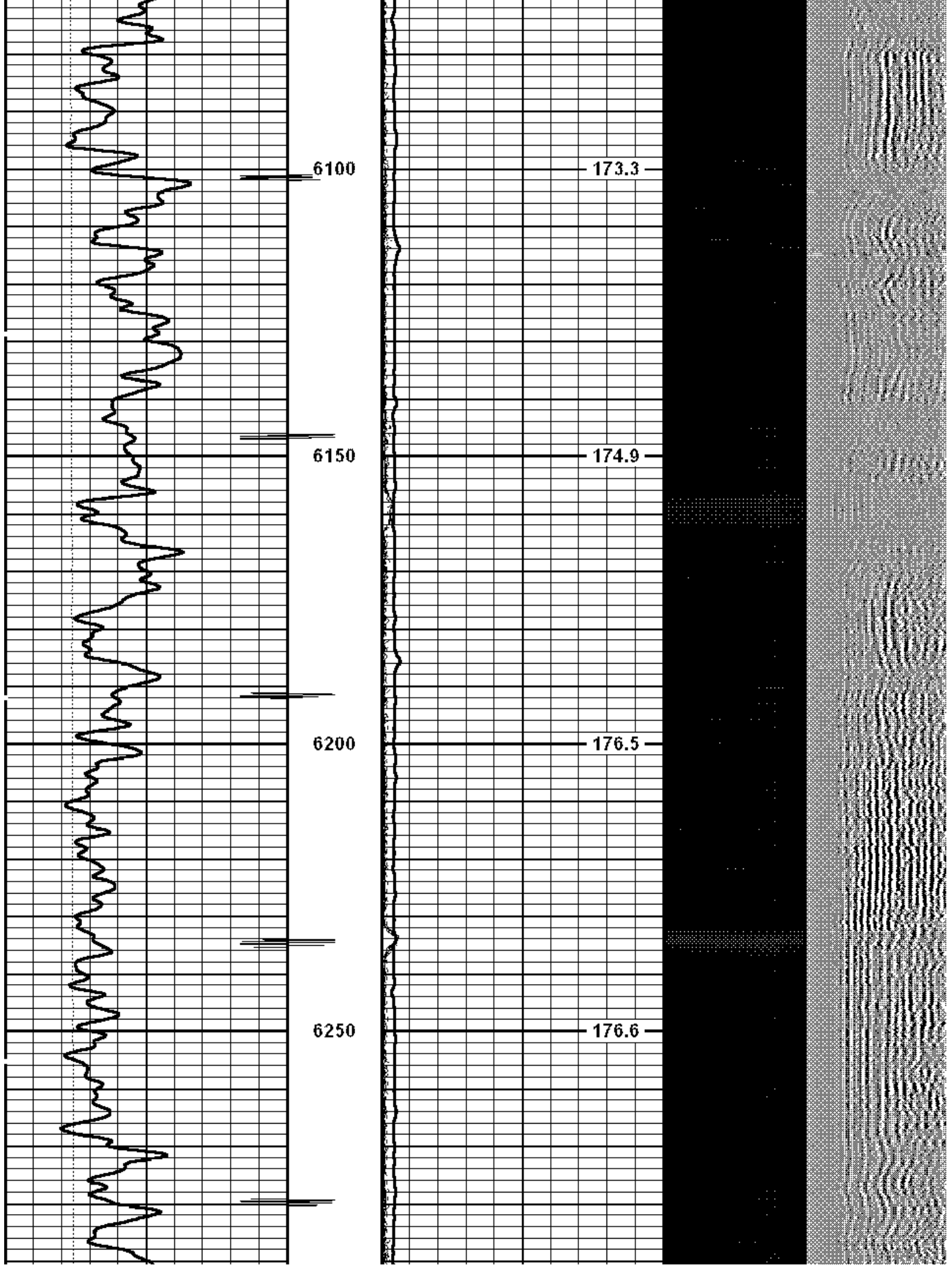


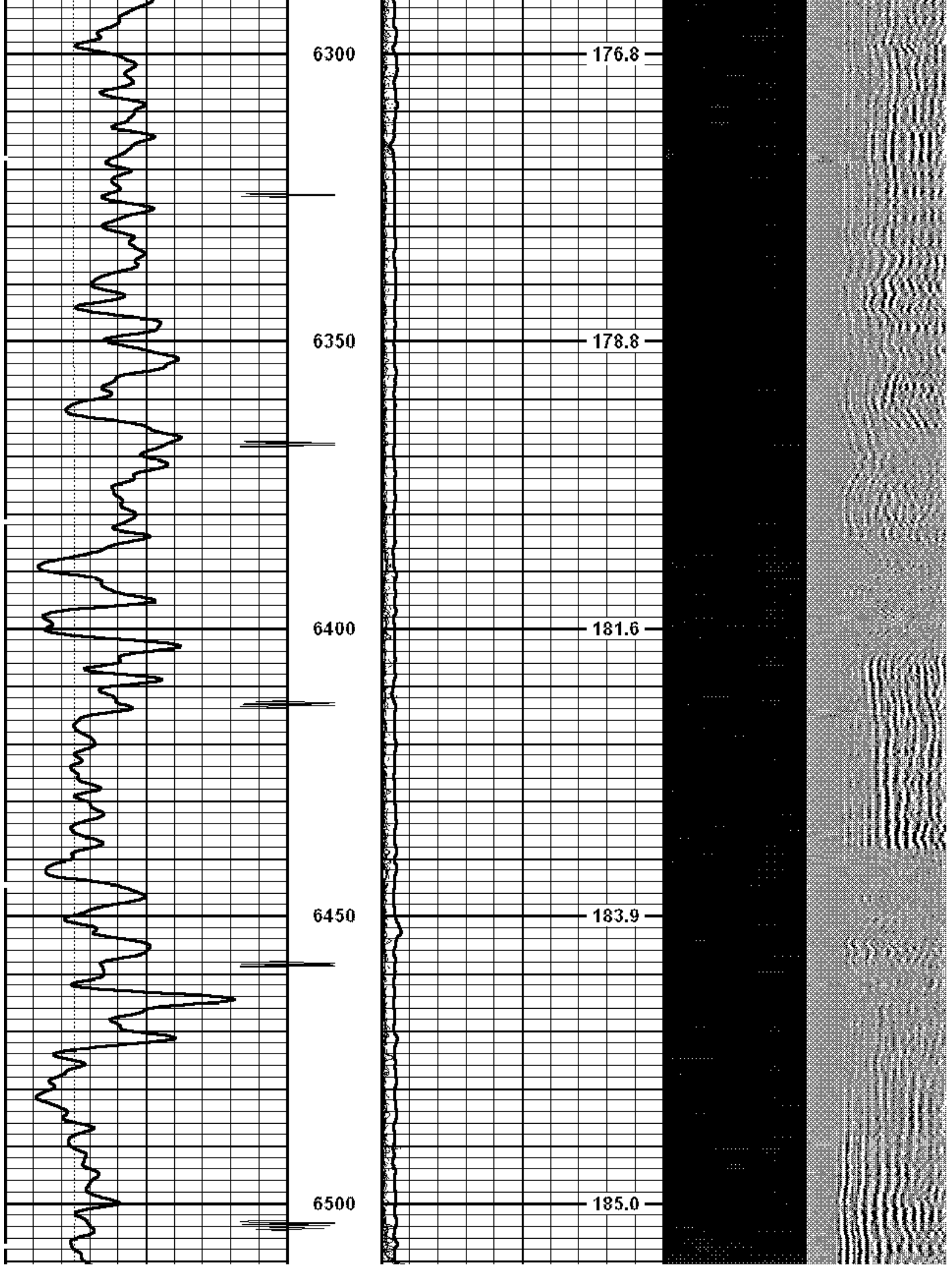


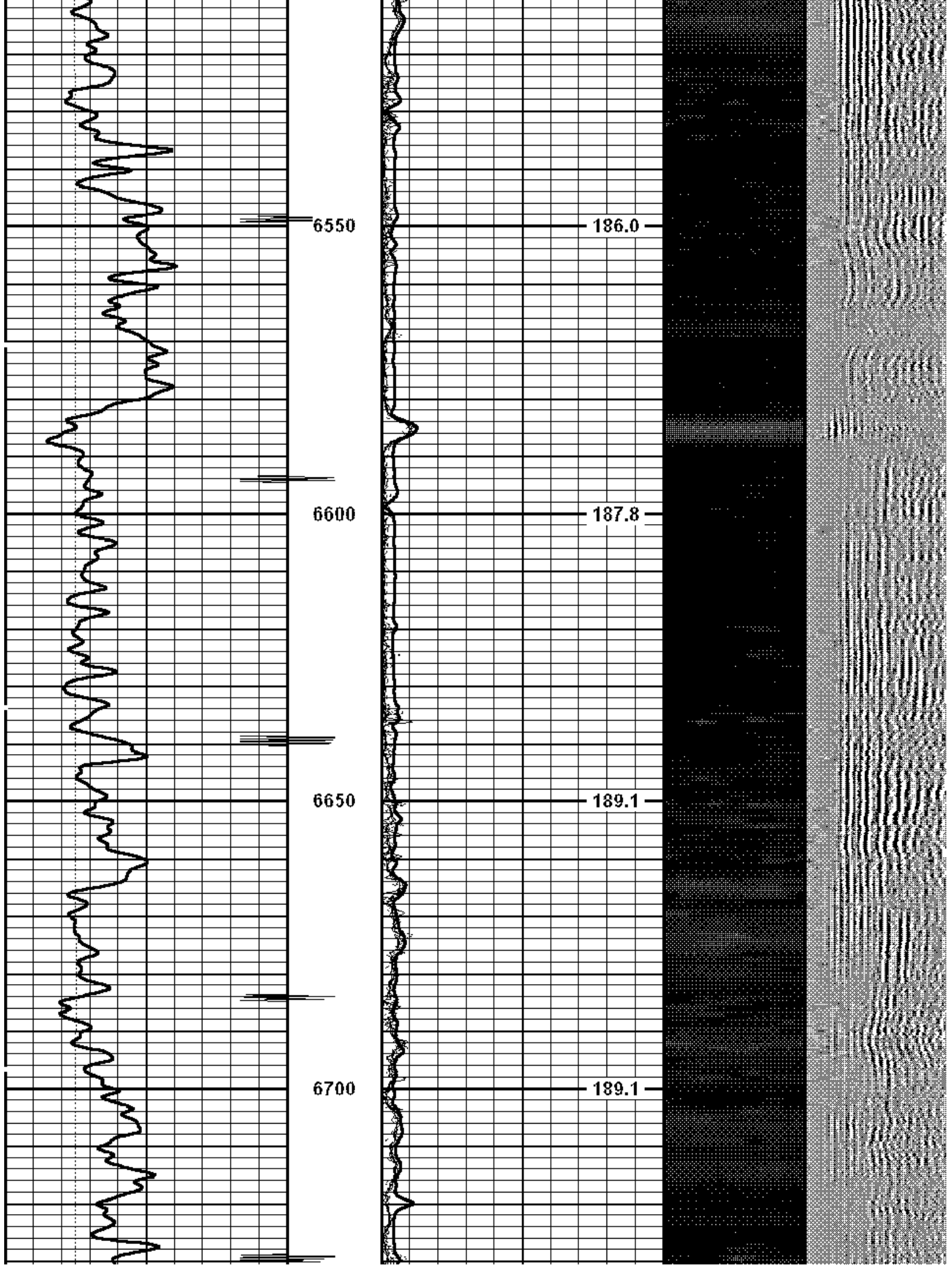


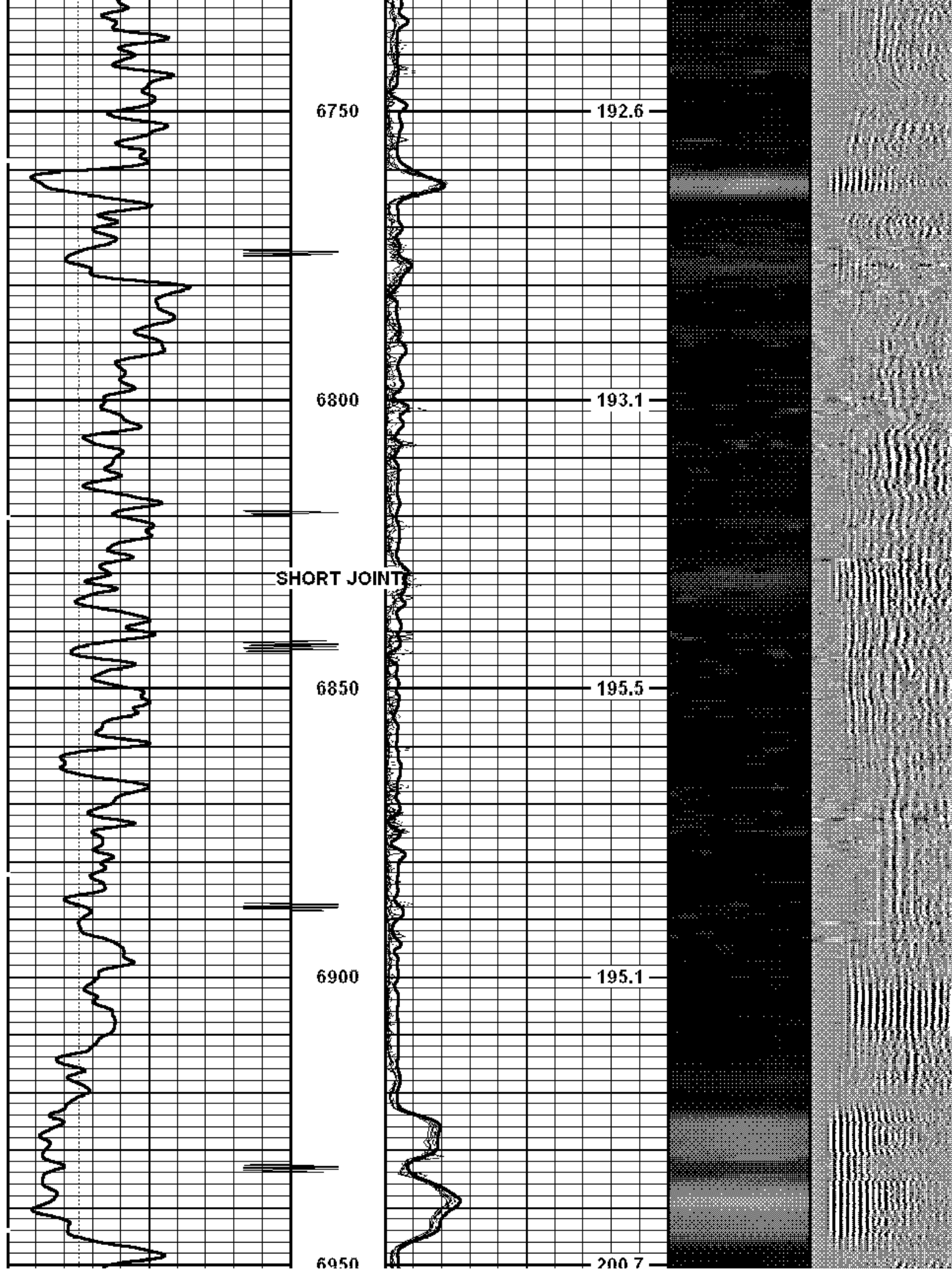


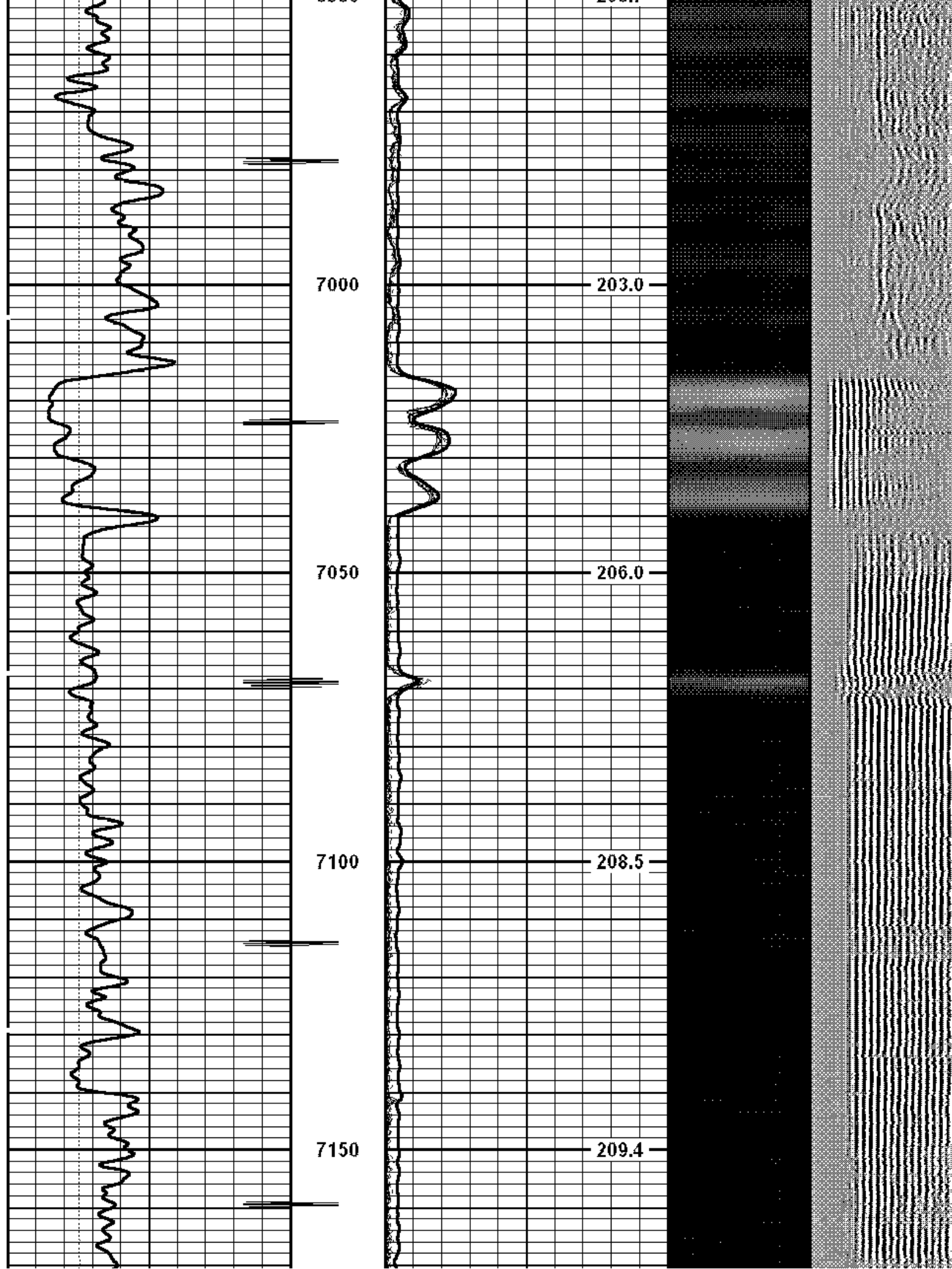


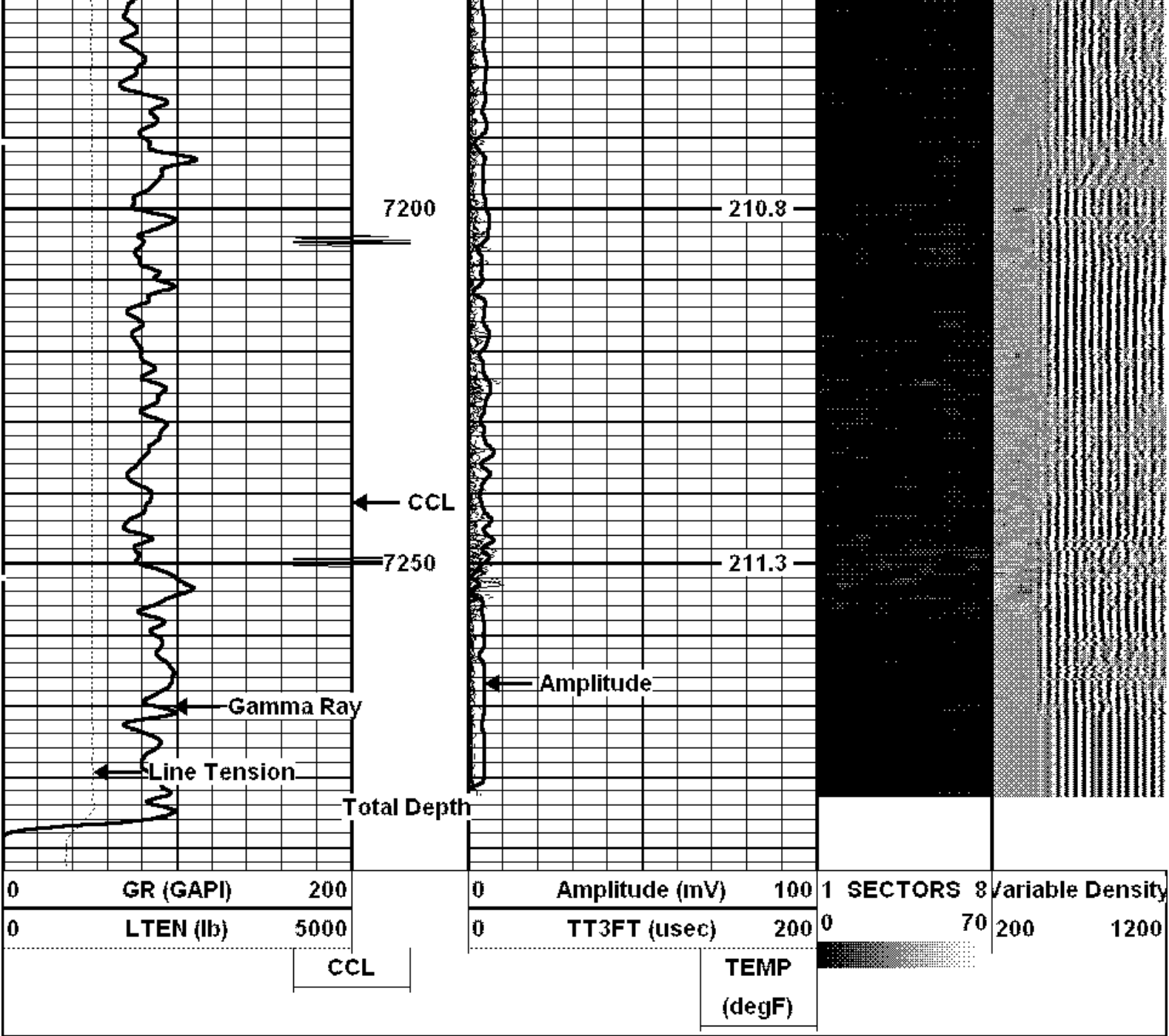




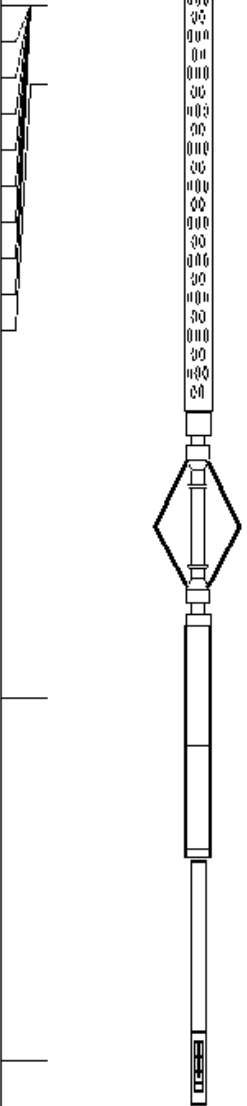
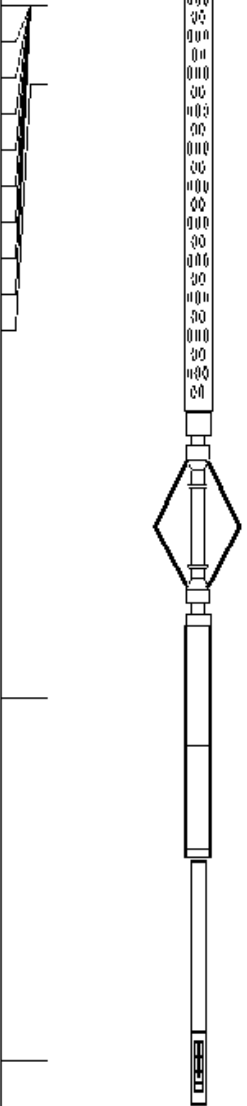
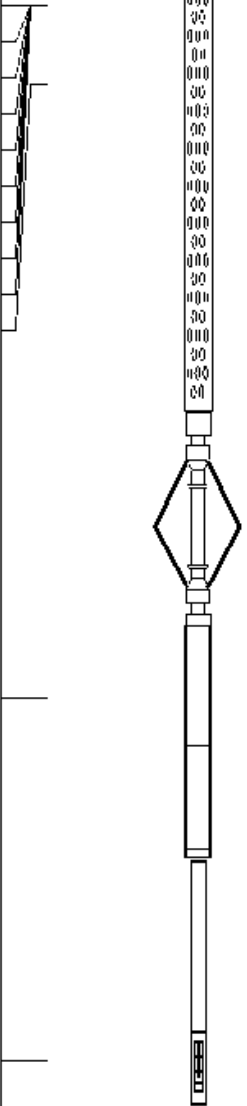








Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	21.68		TITAN	1.02	1.44	1.00
			SNDX_CCL-SNDX_3_13_CCL (000001) CSS Gamma Ray/CCL (CCL Section)	1.92	3.13	11.02
			SONDEX	2.71	2.75	32.00

WVF3FT	13.92		SNDX_RBT-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					
WVF5FT	12.92					
GR	5.17		SONDEX	2.71	2.75	32.00
			SNDX_GR-SNDX_3_13_GR (000001) Sondex Production Gamma Ray	2.94	3.13	22.05
			_TEMP-SNDX_TEMP (SNDX_TEMP_01) Sondex Production Temperature Tool	3.14	1.63	10.00
TEMP	0.58					
Dataset: mcln c13.db: field/well/run1/pass2 Total Length: 23.90 ft Total Weight: 248.07 lb O.D.: 3.13 in						



Company	ANTERO RESOURCES PICEANCE CORP.
Well	McLIN C13
Field	MAMM CREEK
County	GARFIELD
State	COLORADO