

RADIAL CEMENT BOND LOG GAMMA RAY CCL

Company	ANADARKO PETROLEUM CORP.	
Well	ANDERSON MEL GU 1	
Field	WATTENBERG	
County	WELD	State
State	COLORADO	
Location:	API # : 05-123-08422	
LAT: 40.09030 LONG: -104.78734		Other Services
SW/SW		
Permanent Datum	GL	Elevation
Log Measured From	KB 10'	4976'
Drilling Measured From	KB	Elevation
SEC 33 TWP 2N RGE 66W		KB. 4986'
		D.F. 4985'
		G.L. 4976'
Date	11-20-2015	
Run Number	ONE	
Depth Driller	8110	
Depth Logger	7121'	
Bottom Logged Interval	7112'	
Top Log Interval	SURFACE	
Open Hole Size	7 7/8	
Type Fluid	WATER	
Density / Viscosity	1.0	
Max. Recorded Temp.	207 DEG F	
Estimated Cement Top	304'	
Time Well Ready	N/A	
Time Logger on Bottom	N/A	
Equipment Number	3812	
Location	GREELEY	
Recorded By	N.POLLOCK	
Witnessed By	NATE W.	
Borehole Record		
Run Number	Bit	From
	To	Size
	Weight	From
	To	
Casing Record	Size	Wgt/Ft
Surface String	8.875	24#
Prot. String		
Production String	4.5	11.6#
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

RAN CBL TO VERIFY CEMENT TOP




RIG TRIPPED IN 7 STANDS AND ROLLED THE HOLE

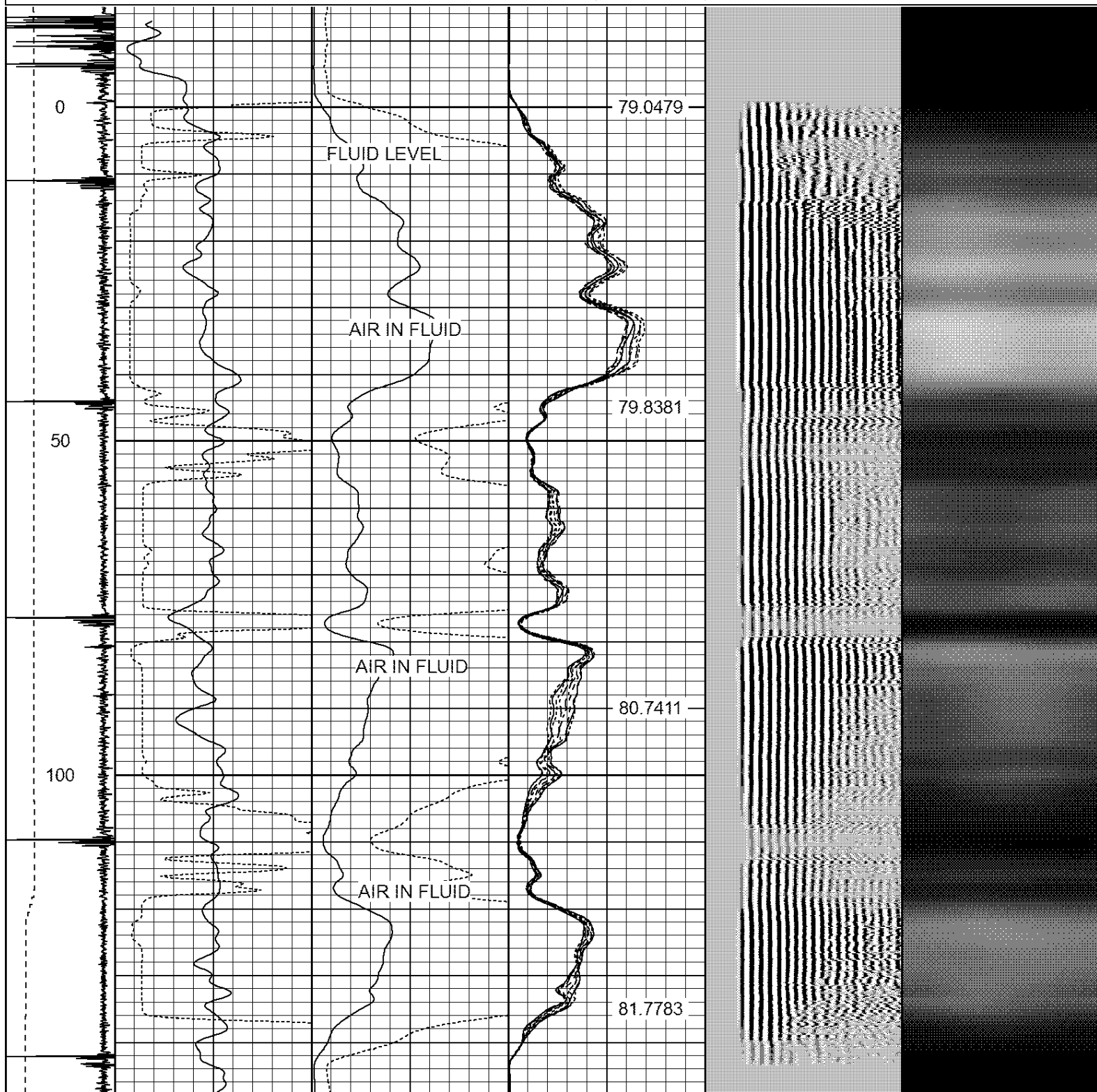
CORRELATED 11' OUT OF HOLE TO IPS LOG RAN 8-6-2008

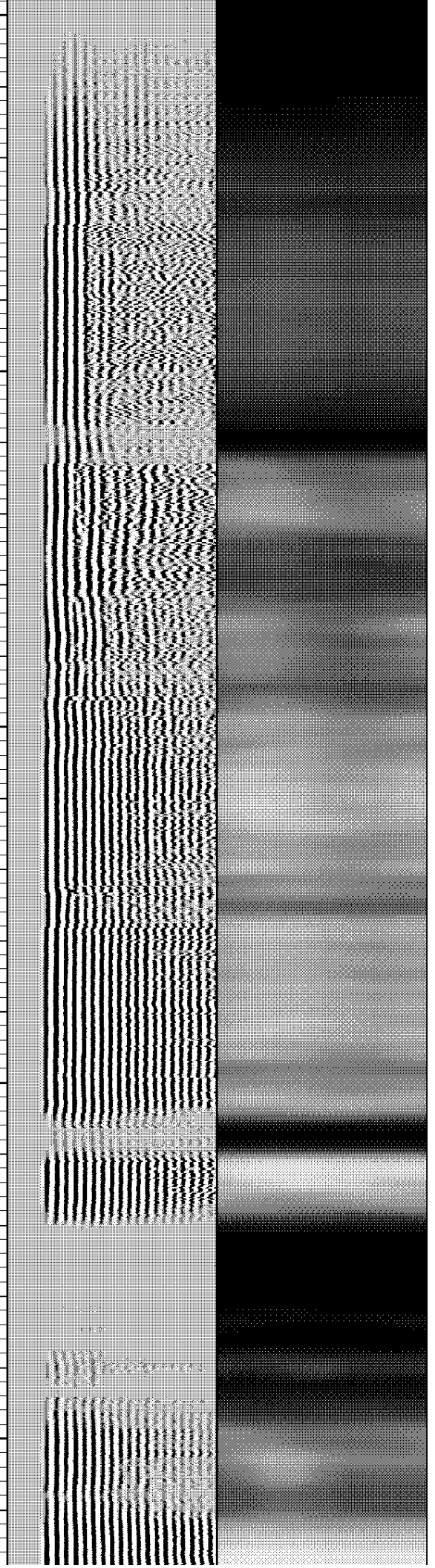
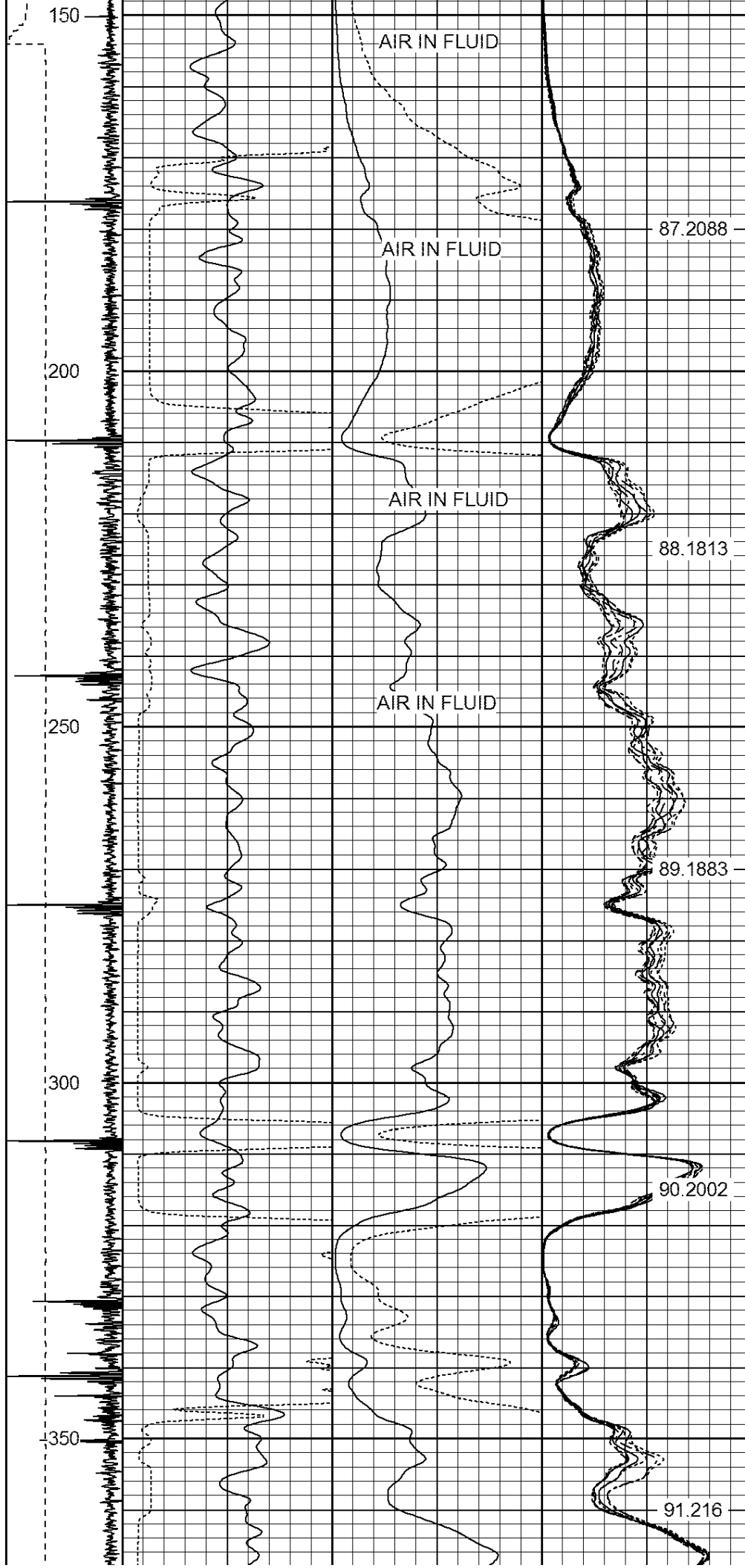
THANK YOU FOR USING IPS!!

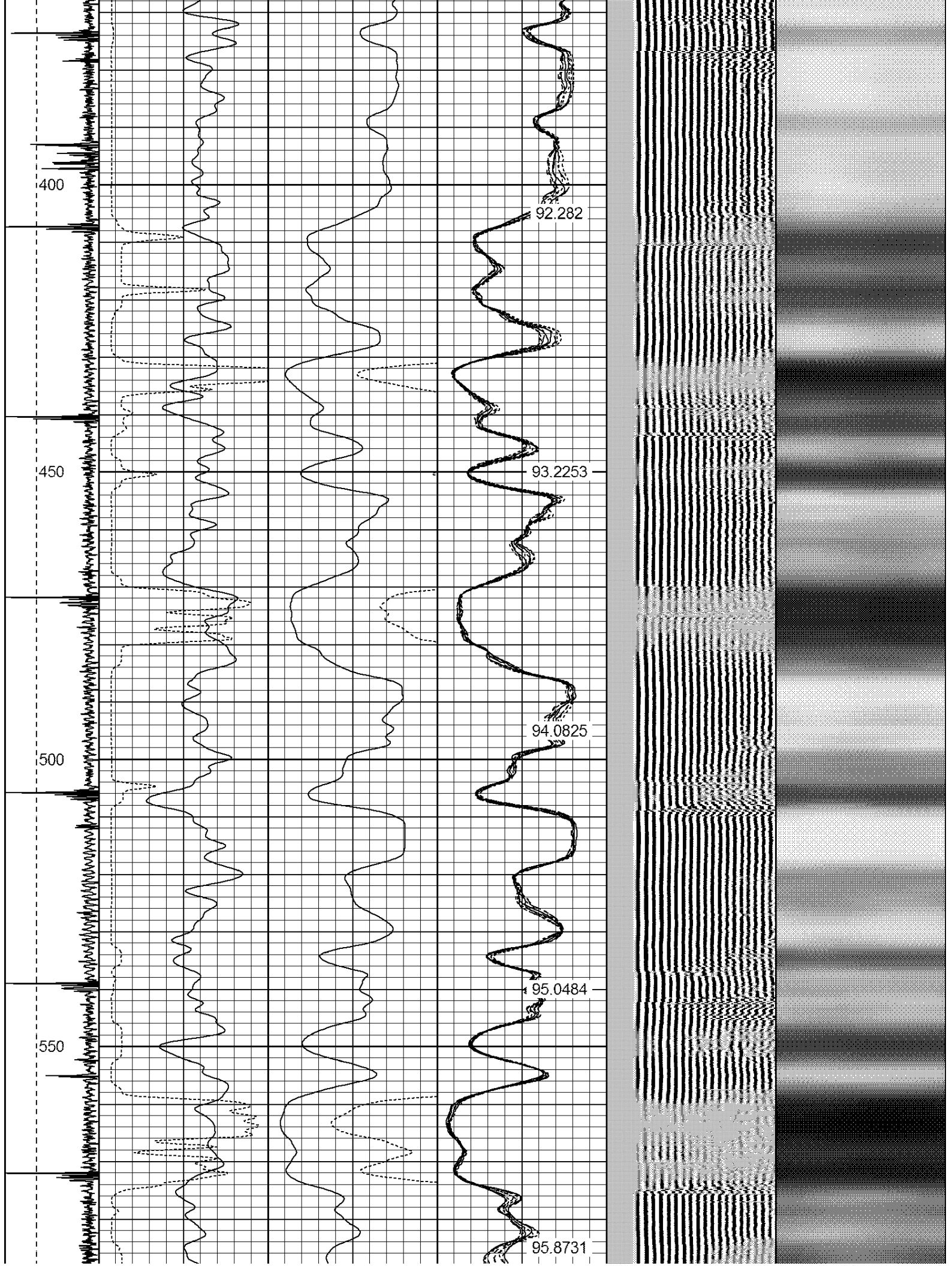
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CENT	19.08					

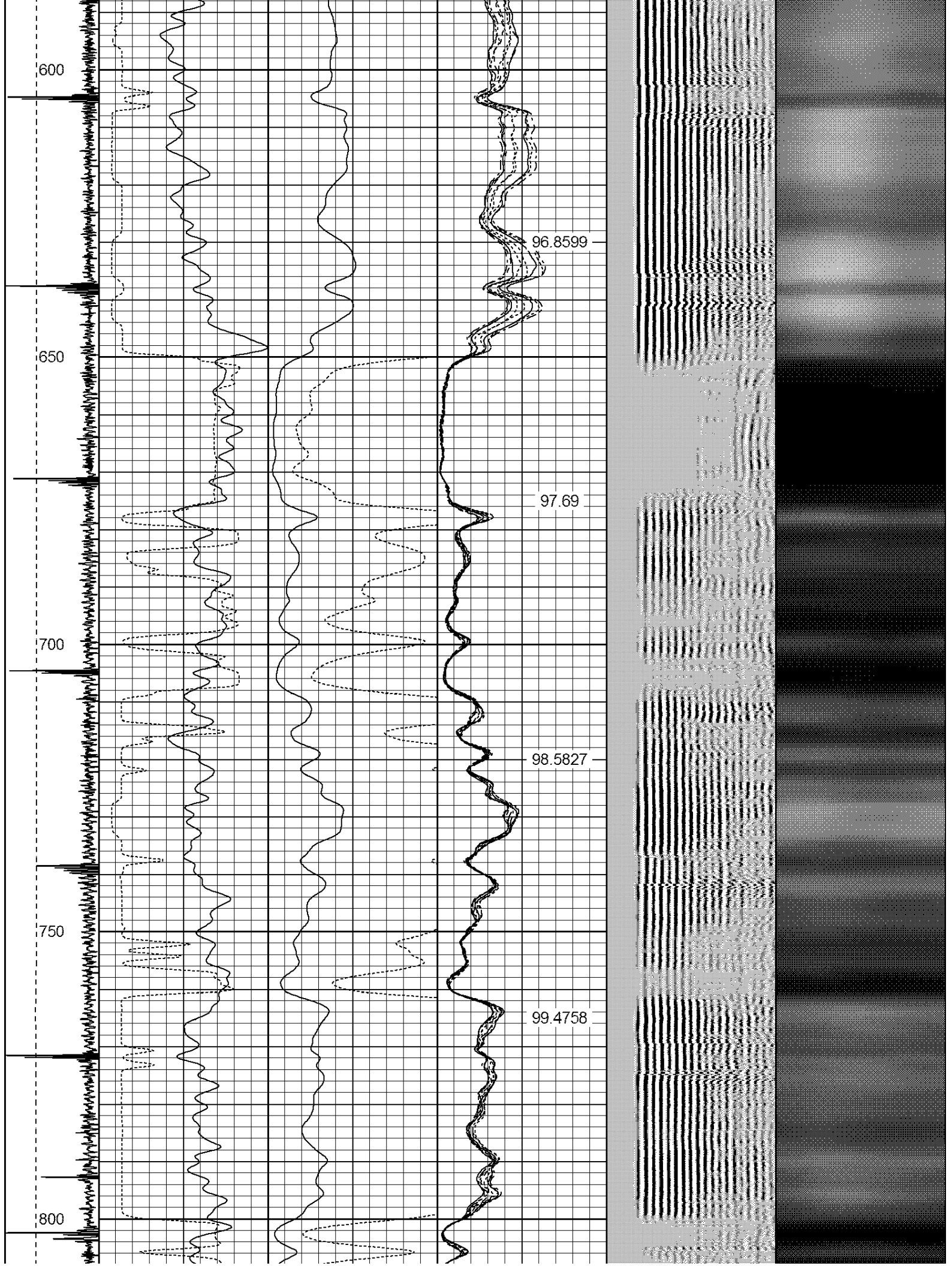
			PTS275	2.83	2.75	
HEADVOLT	16.25					
RBT	16.25					
IntTemp	14.83					
WVF3FT	11.58					
WVFCAL	11.58					
WVFS1	11.58					
WVFS2	11.58					
WVFS3	11.58					
WVFS4	11.58					
WVFS5	11.58					
WVFS6	11.58					
WVFS7	11.58					
WVFS8	11.58					
WVF5FT	10.58					
CNLSC	6.00					
CNSSC	5.17					
GR	4.33					
CCL	3.64					
GR	0.90					
Dataset: anderson mel gu 1.db: field/well/run1/pass3 Total Length: 19.08 ft Total Weight: 160.00 lb O.D. 2.75 in						

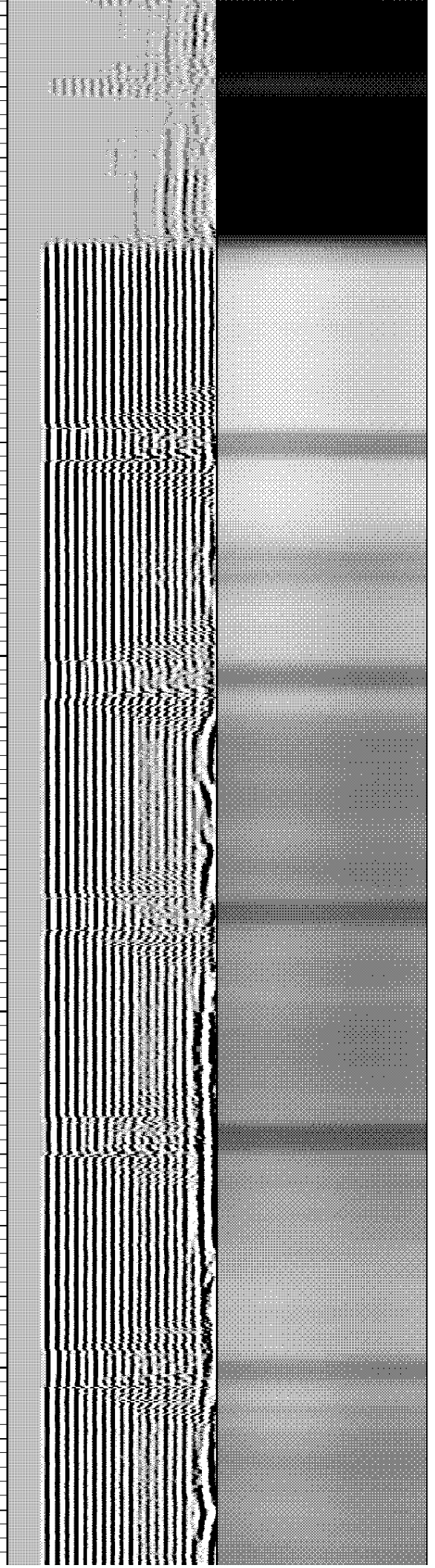
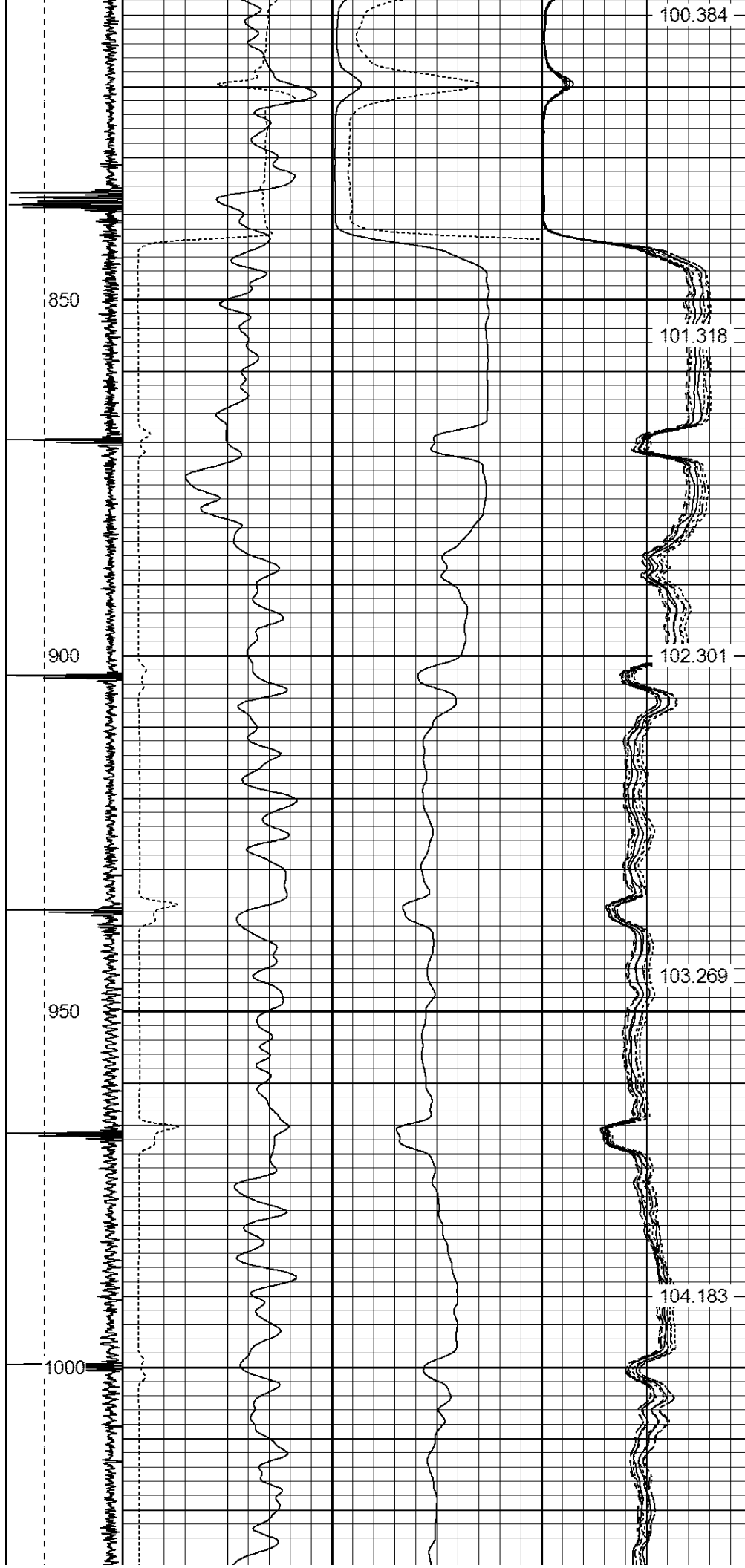
-9	CCL	1	200	TT (usec)	1000	0	AMP (mV)	100	0	AMPS1	100	200	VDL	1200	1	Cement Map	8	
LSPD (ft/min)	0		0	GR (cps)	200	0	AMPx5 (mV)	20	0	AMPS2	100			100				1
	200		200	GR (cps)	400				0	AMPS3	100							
0	250								0	AMPS4	100							
									0	AMPS5	100							
									0	AMPS6	100							
									0	AMPS7	100							
									0	AMPS8	100							
									IntTemp (degF)									

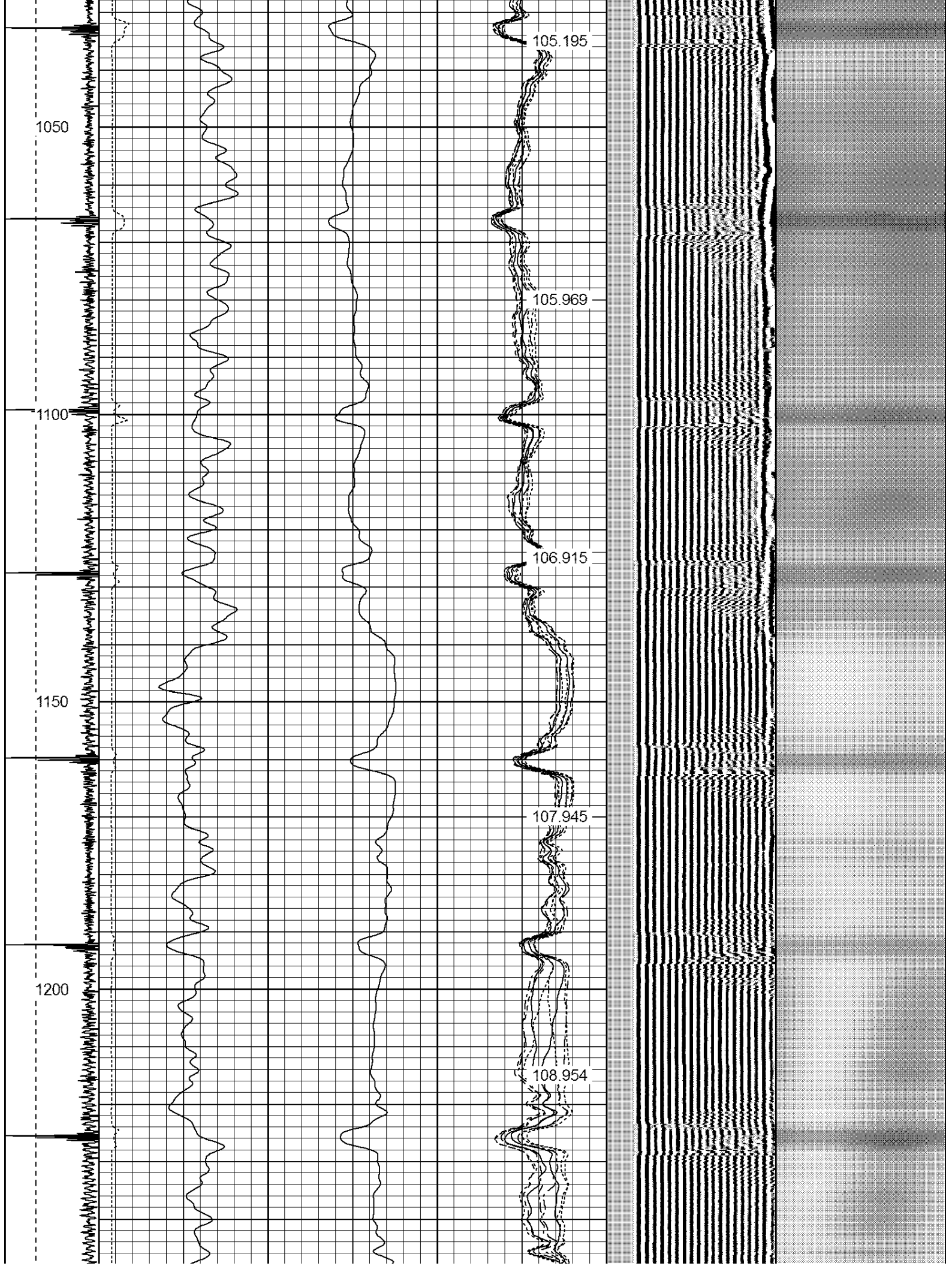


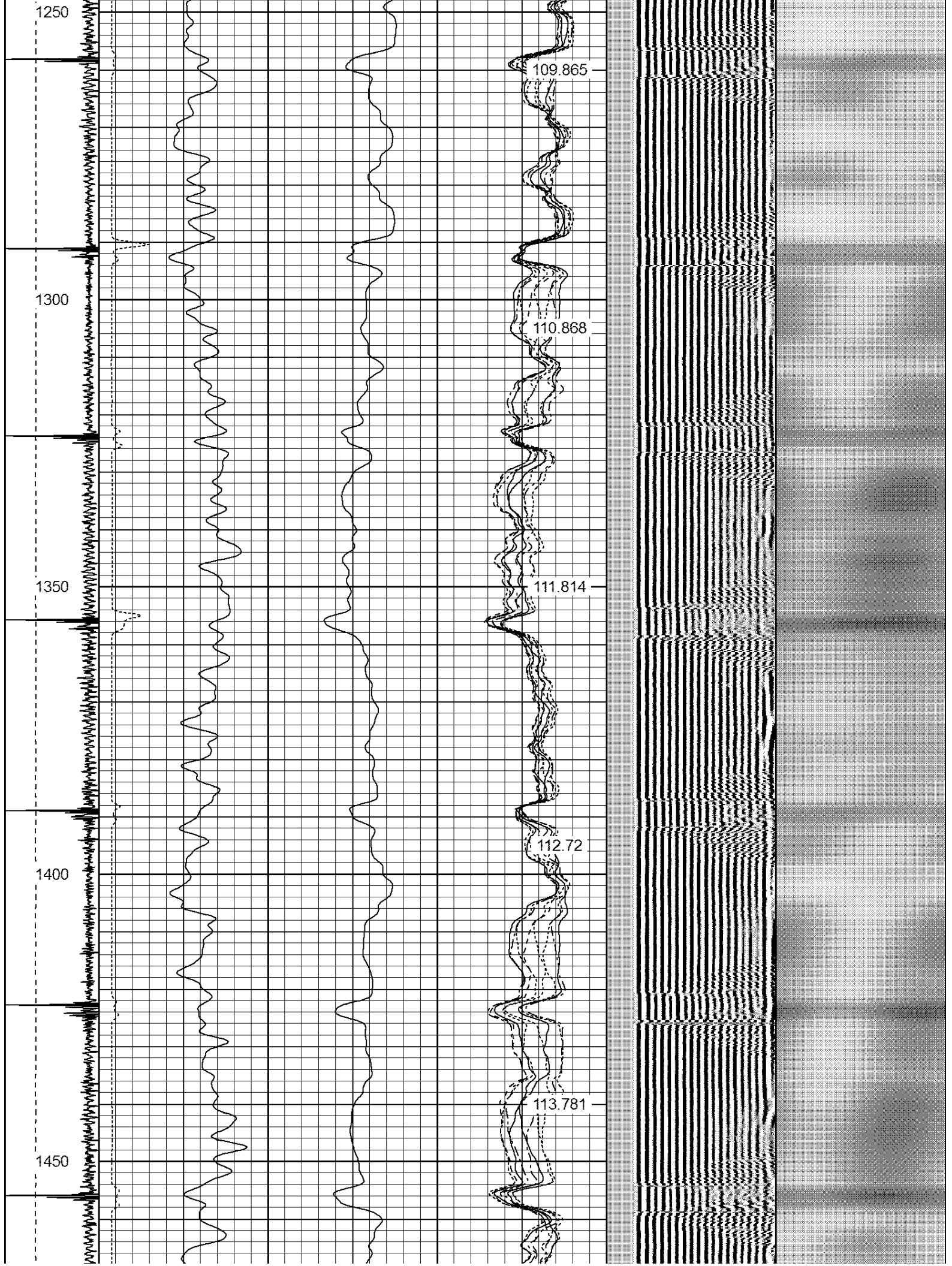


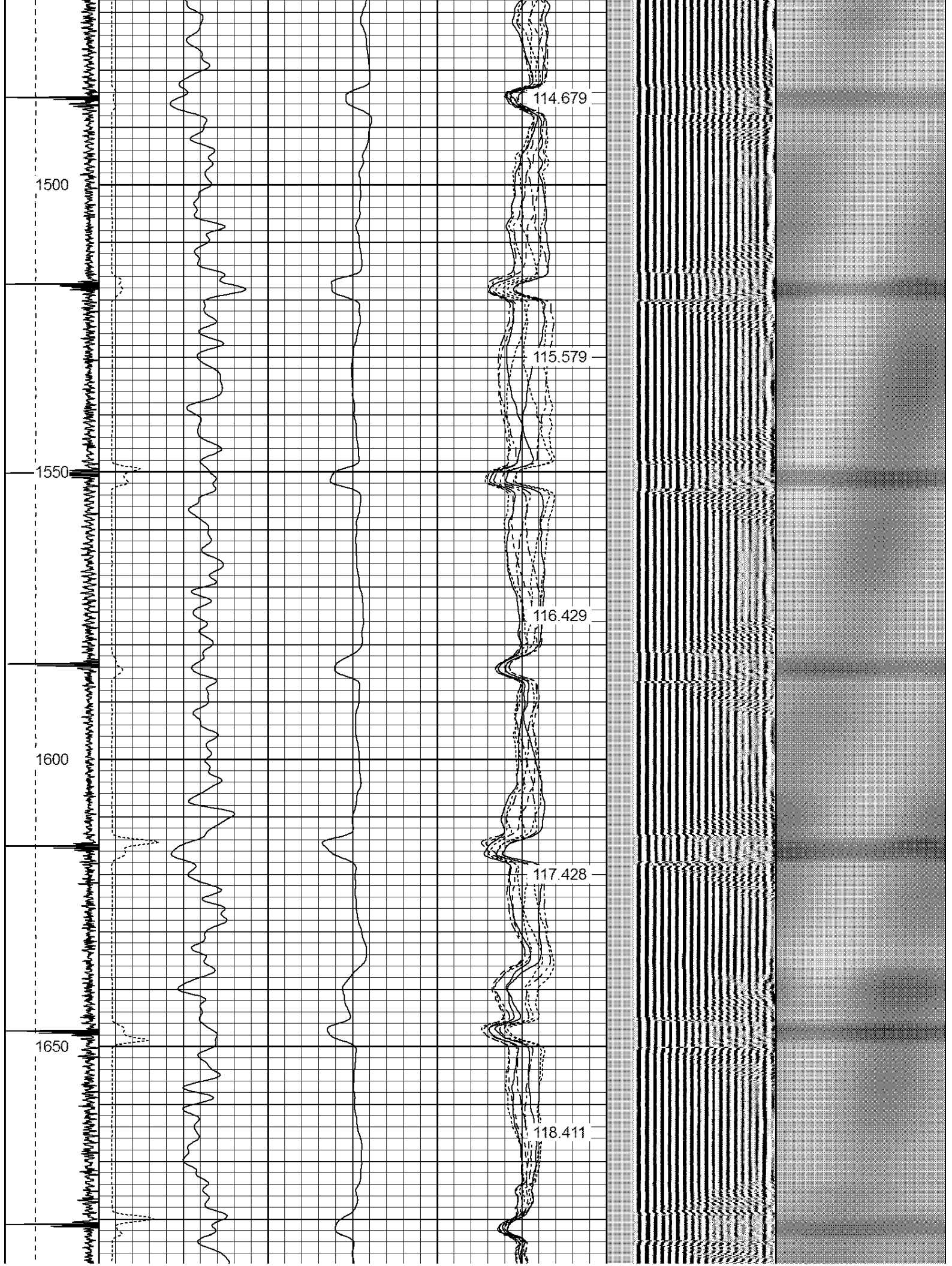


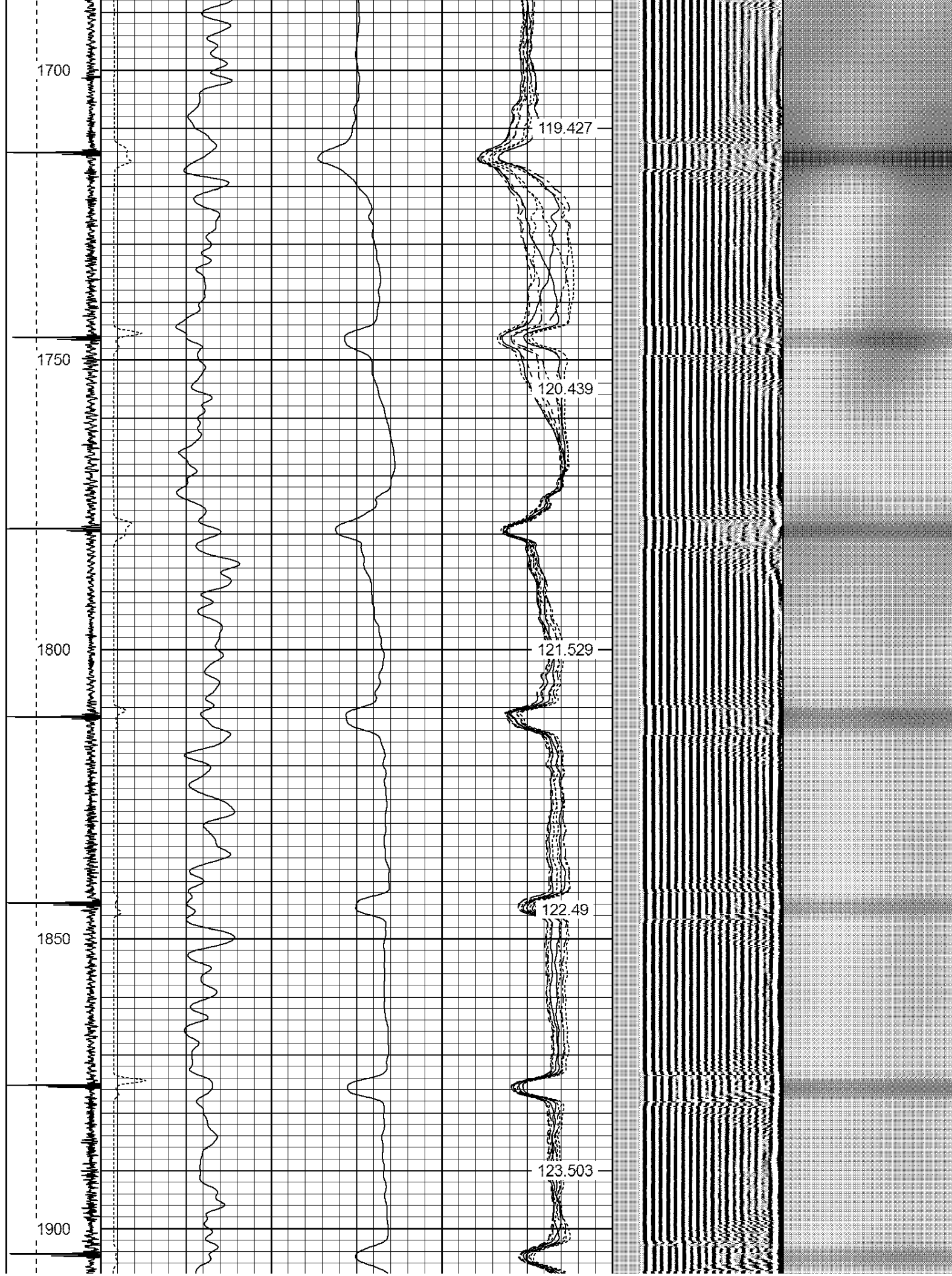


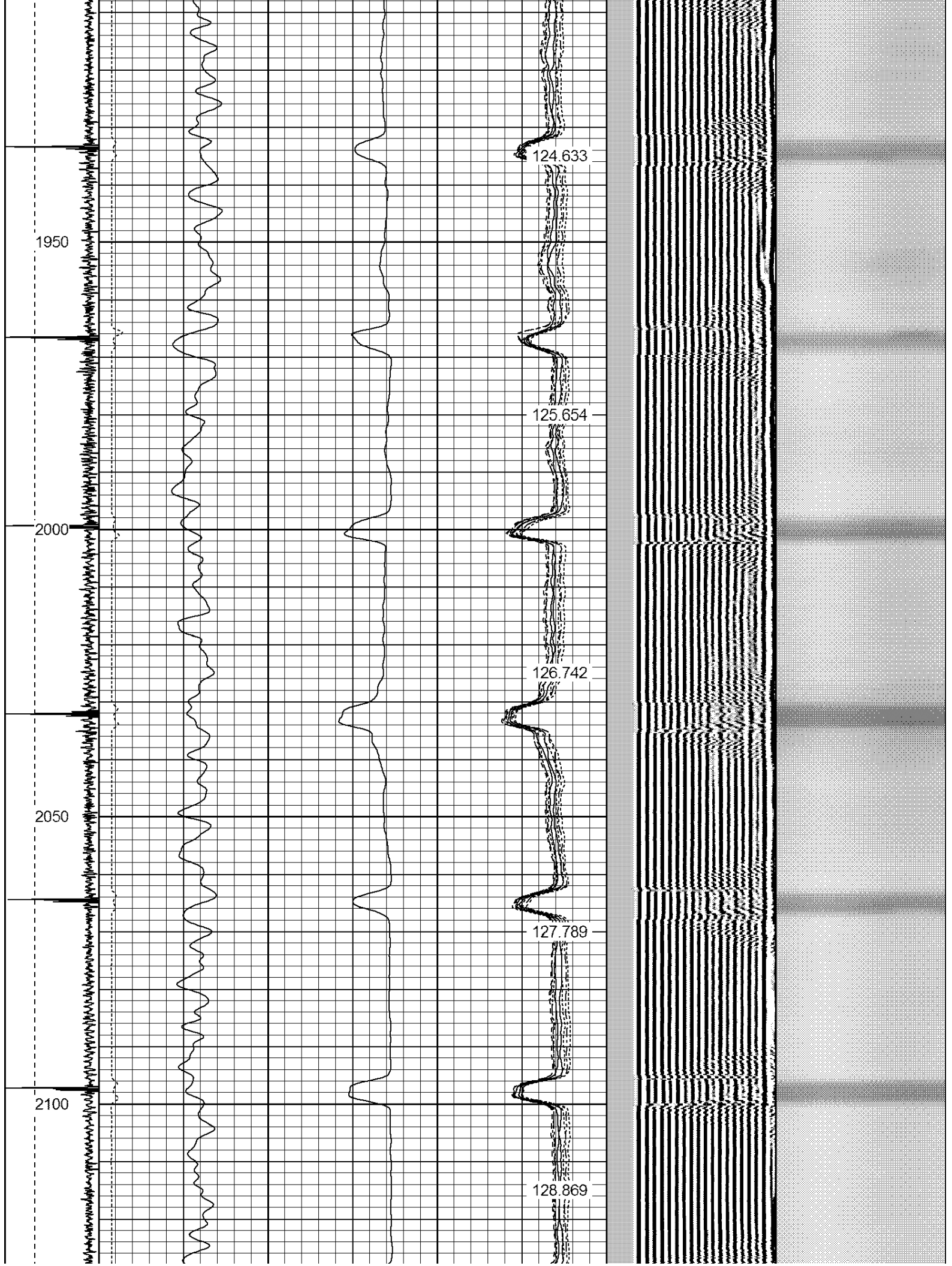


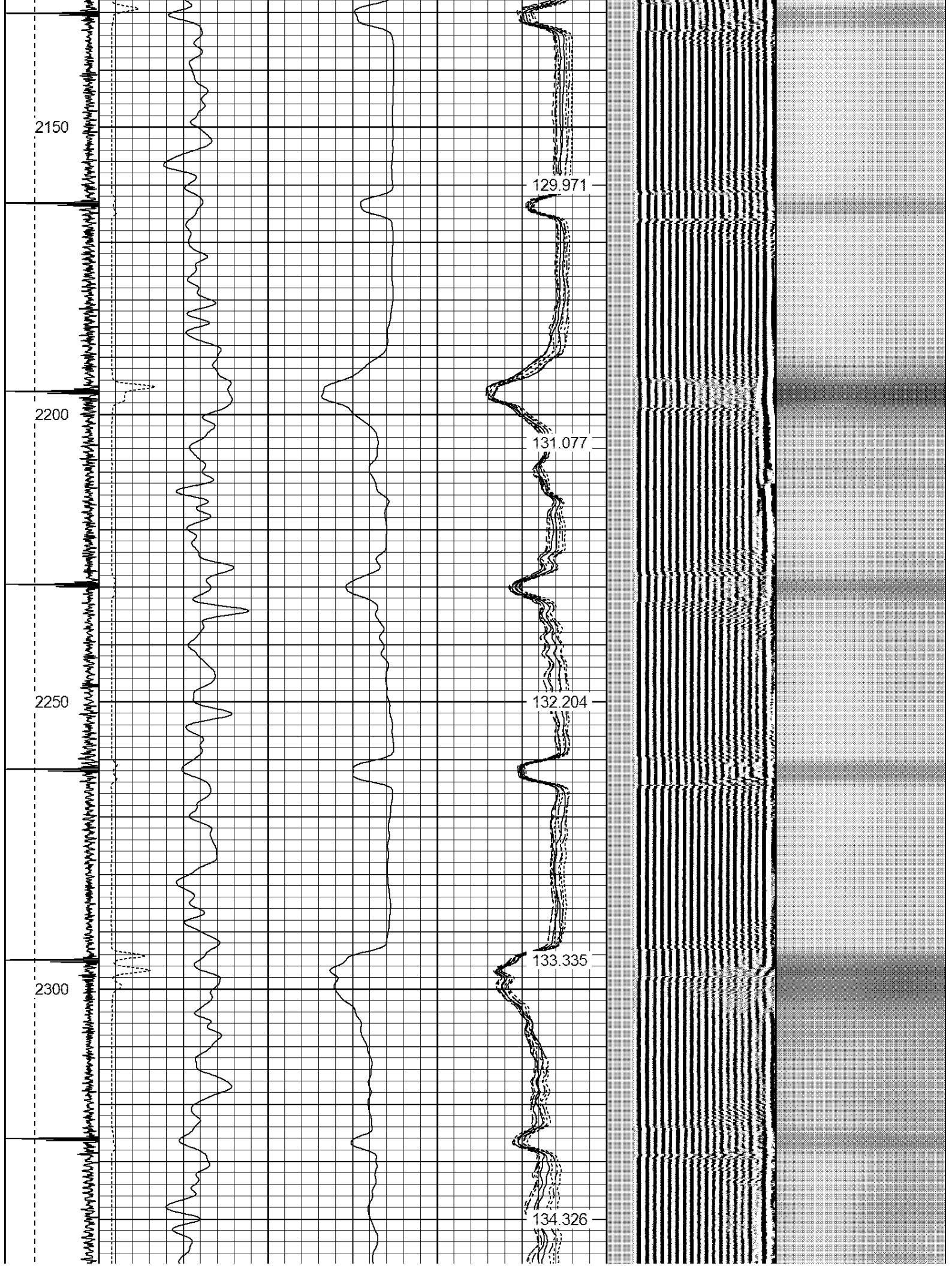




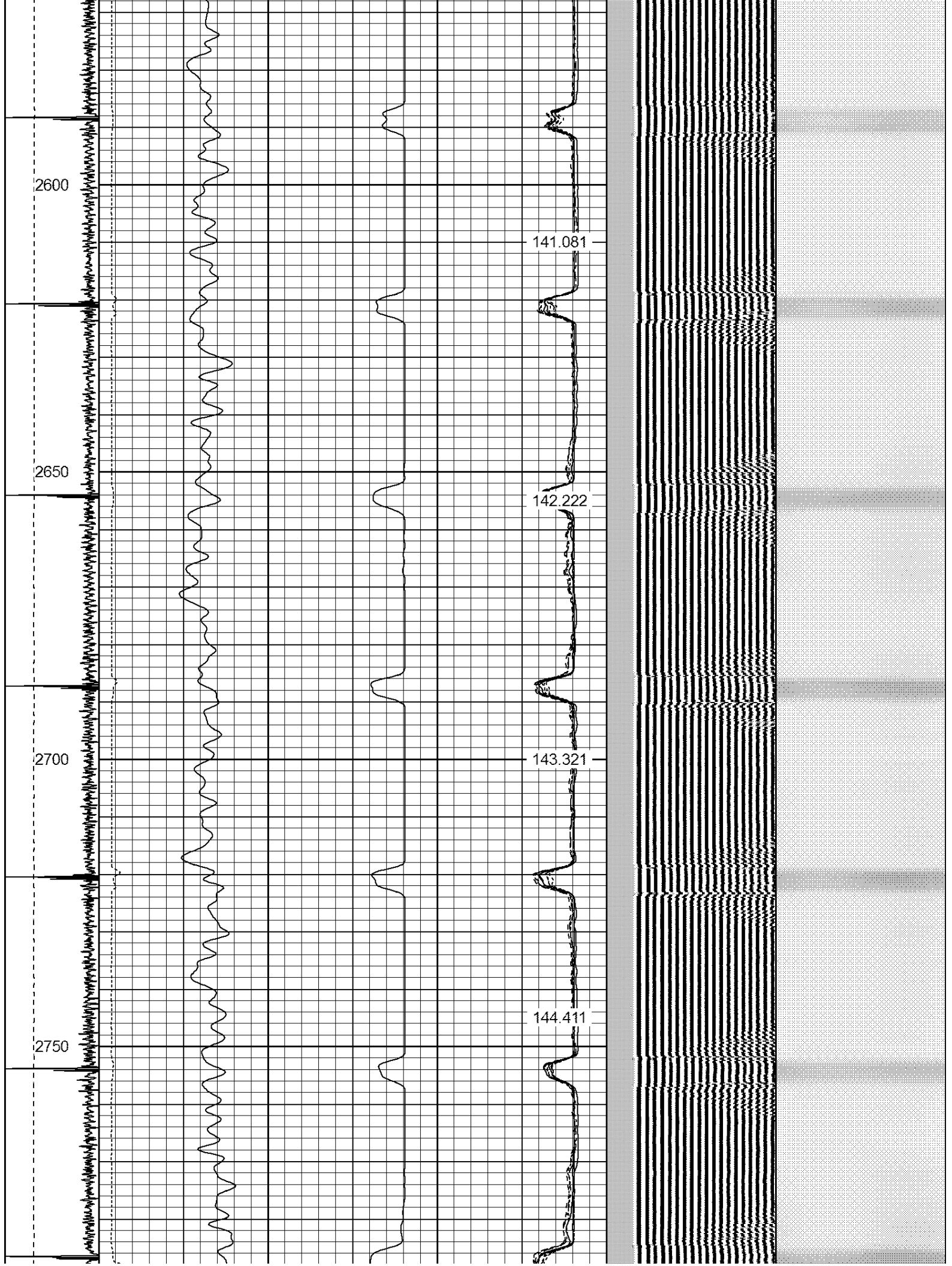


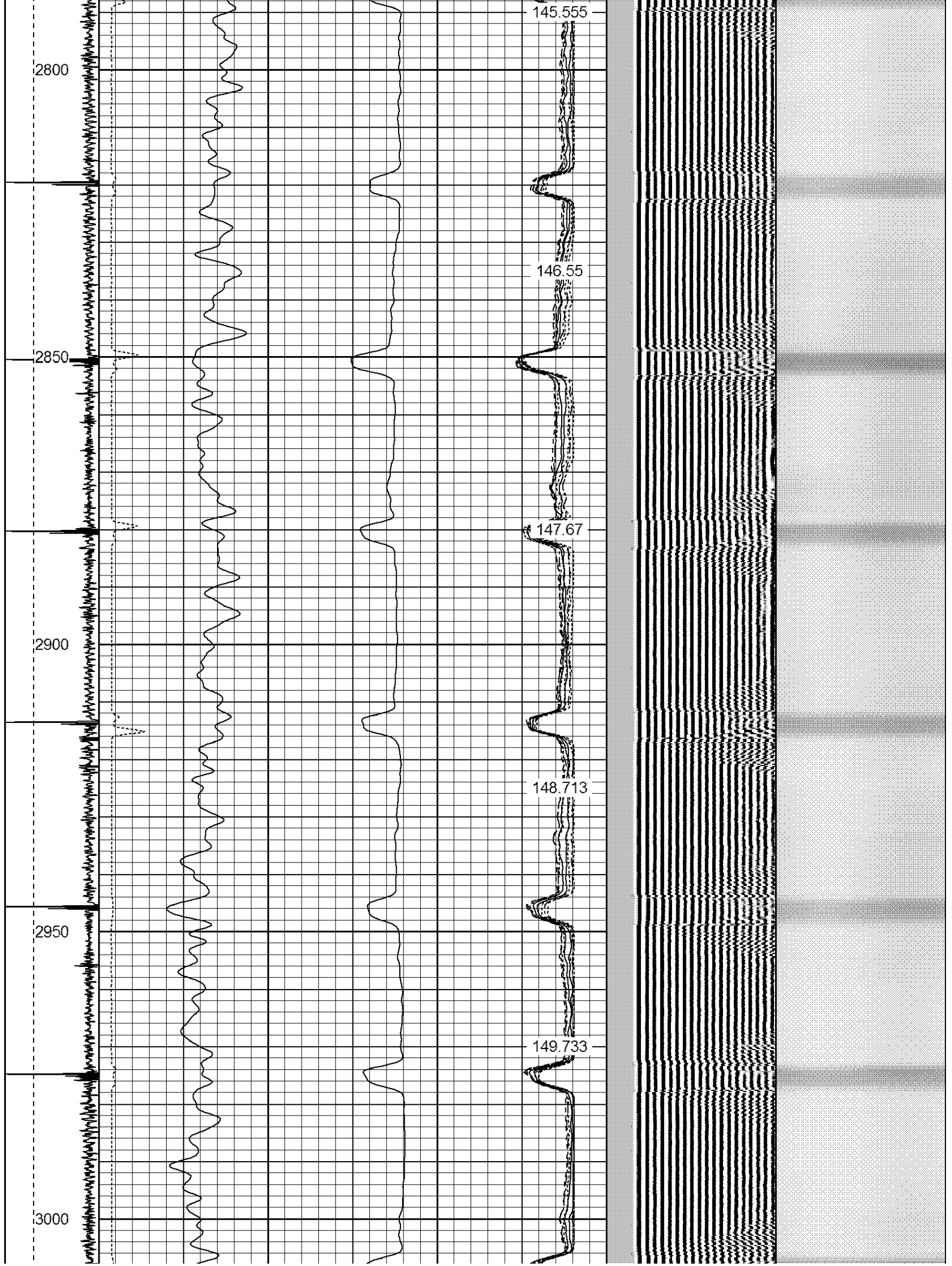




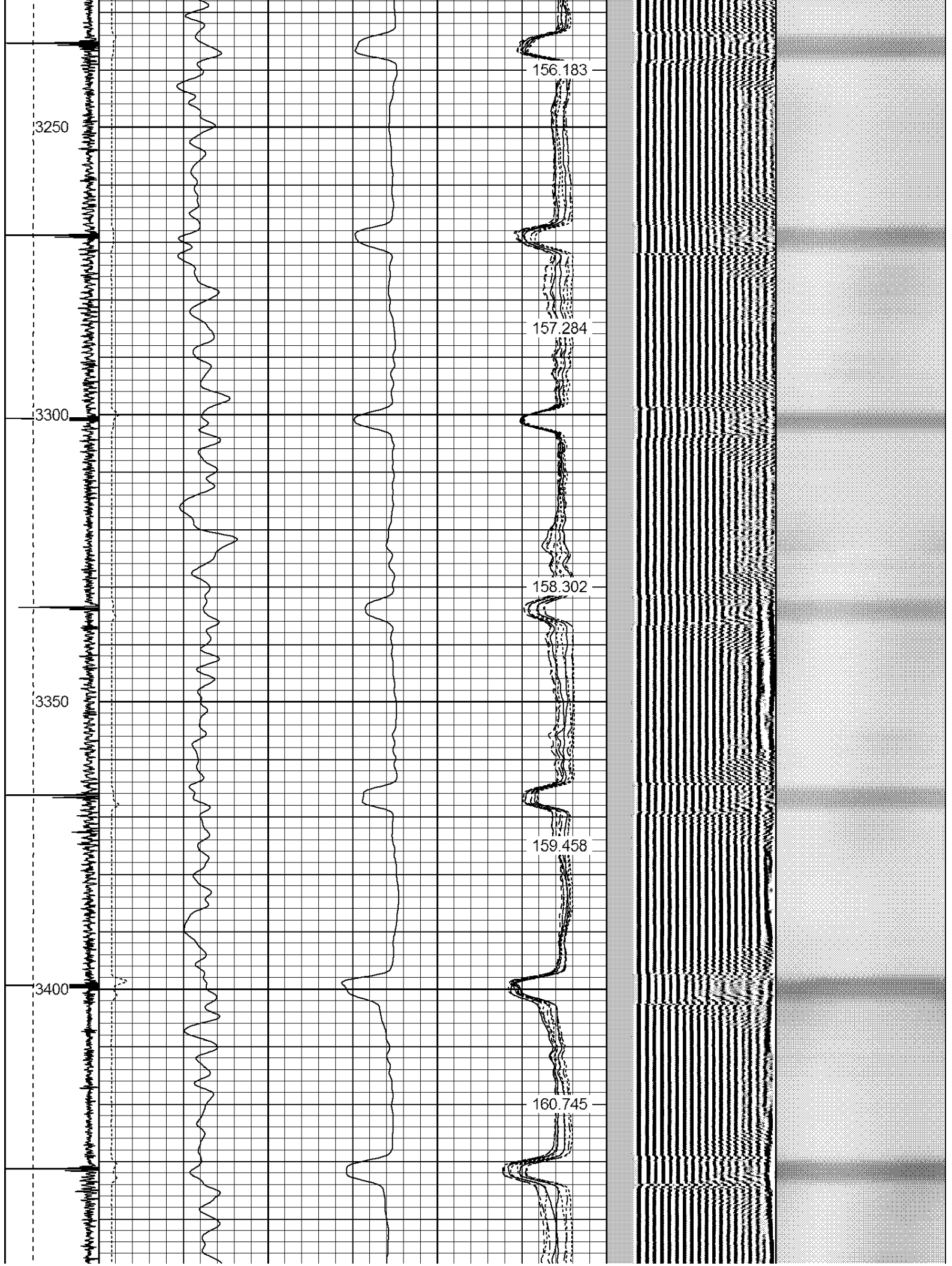


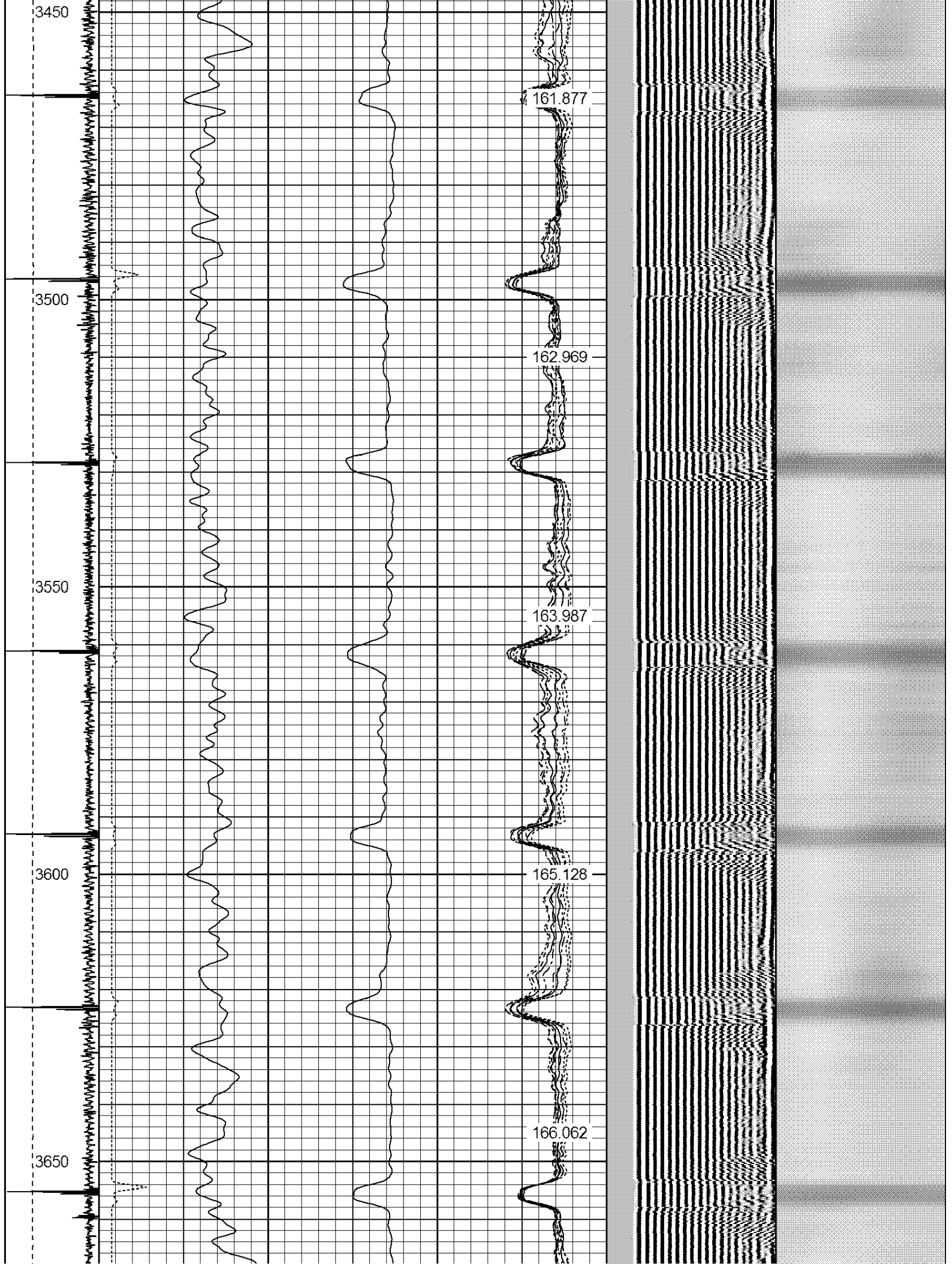


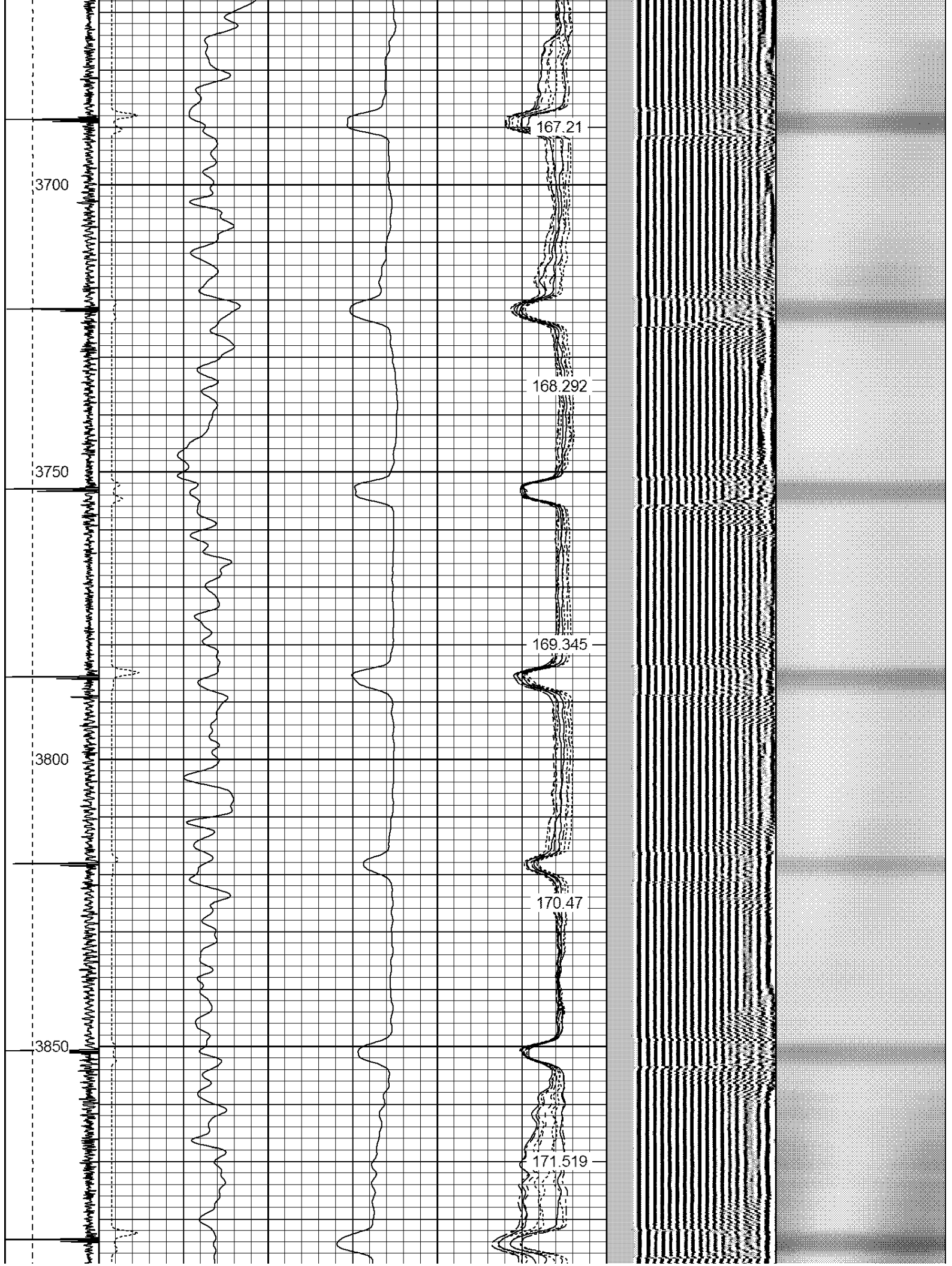


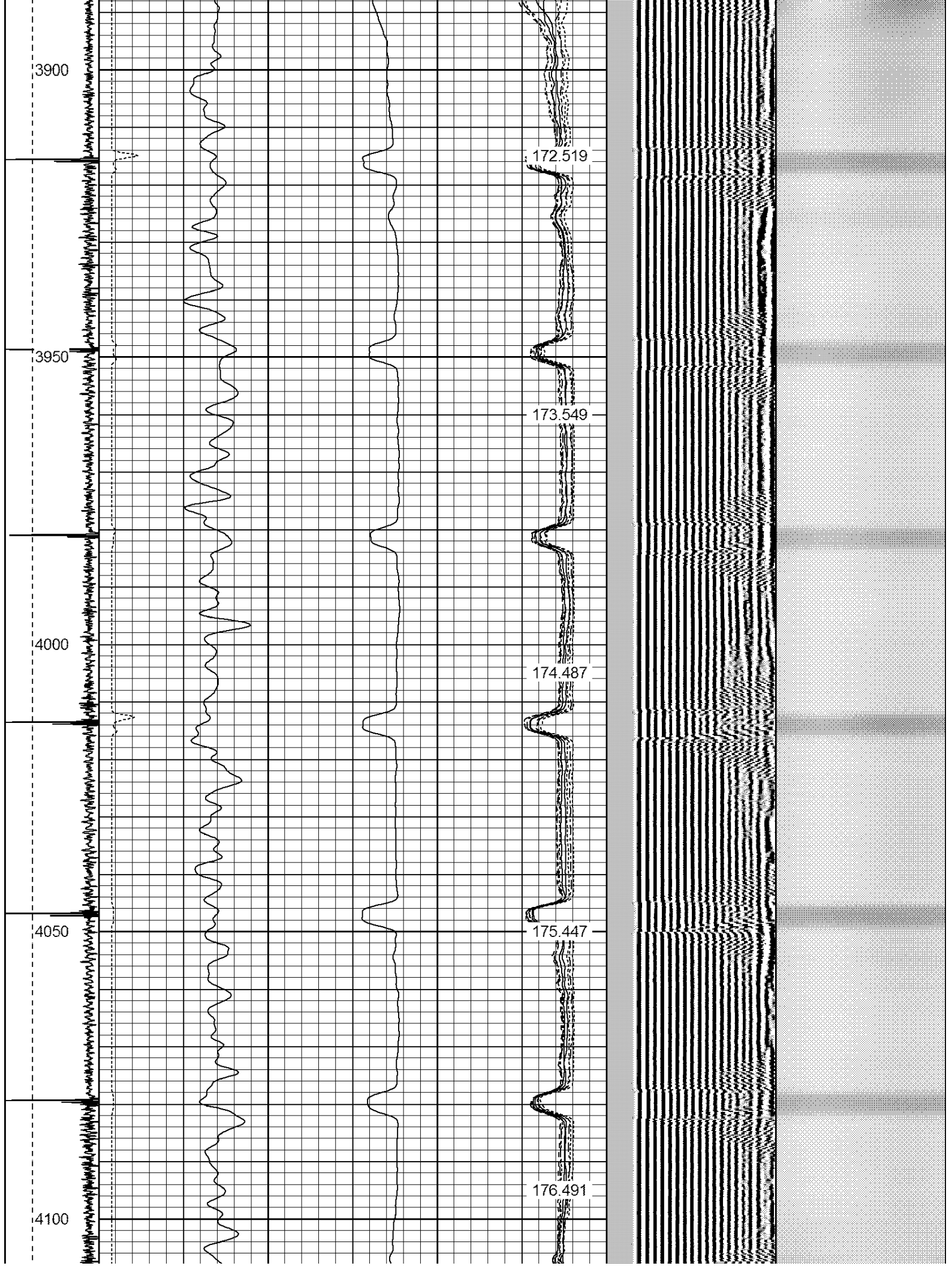


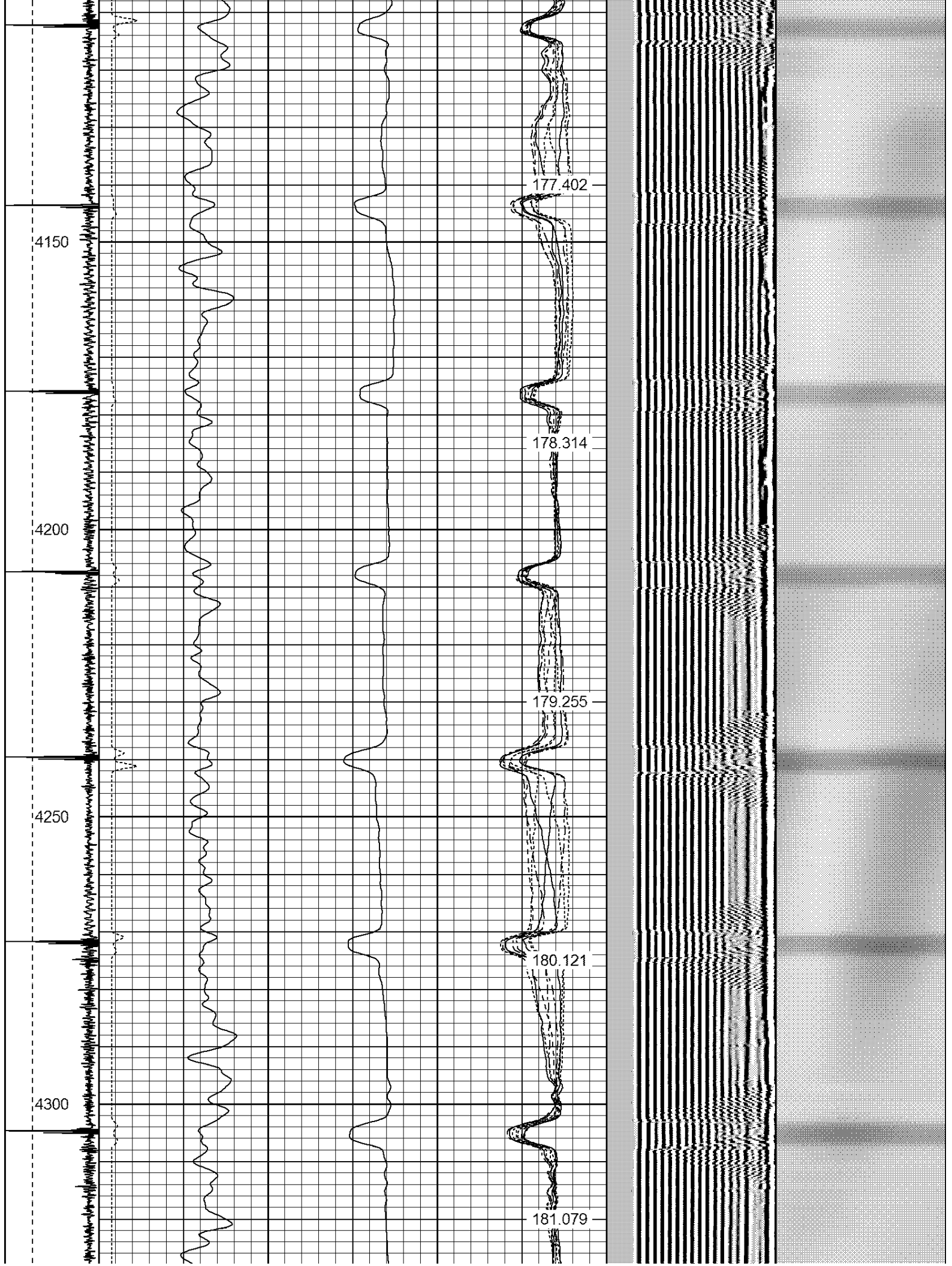


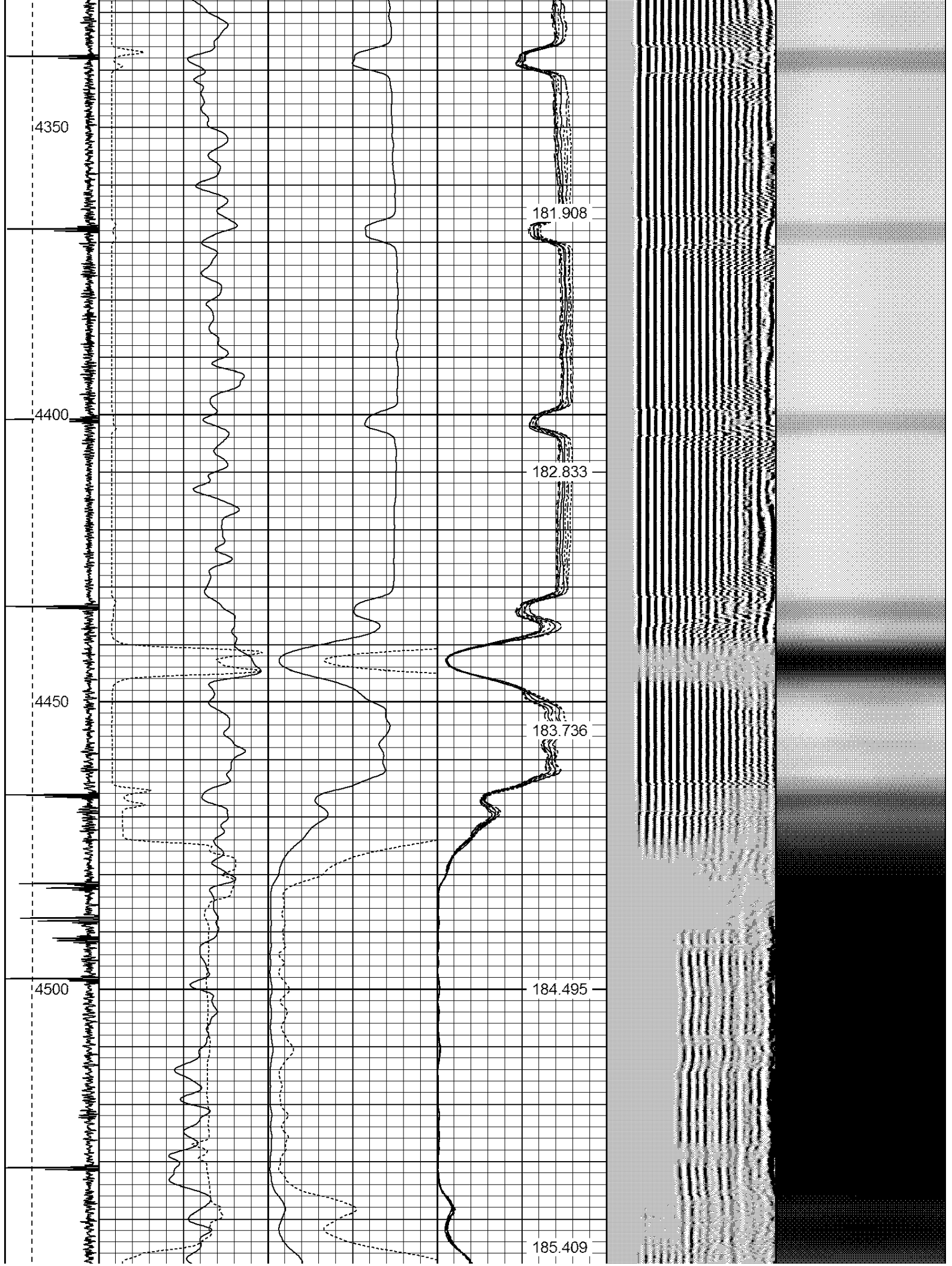


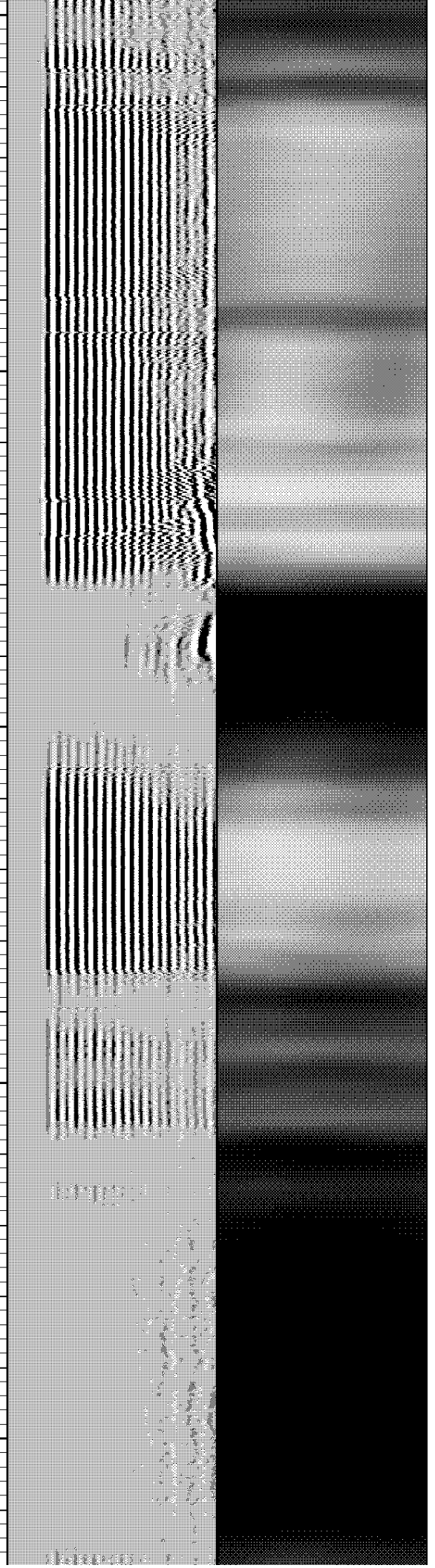
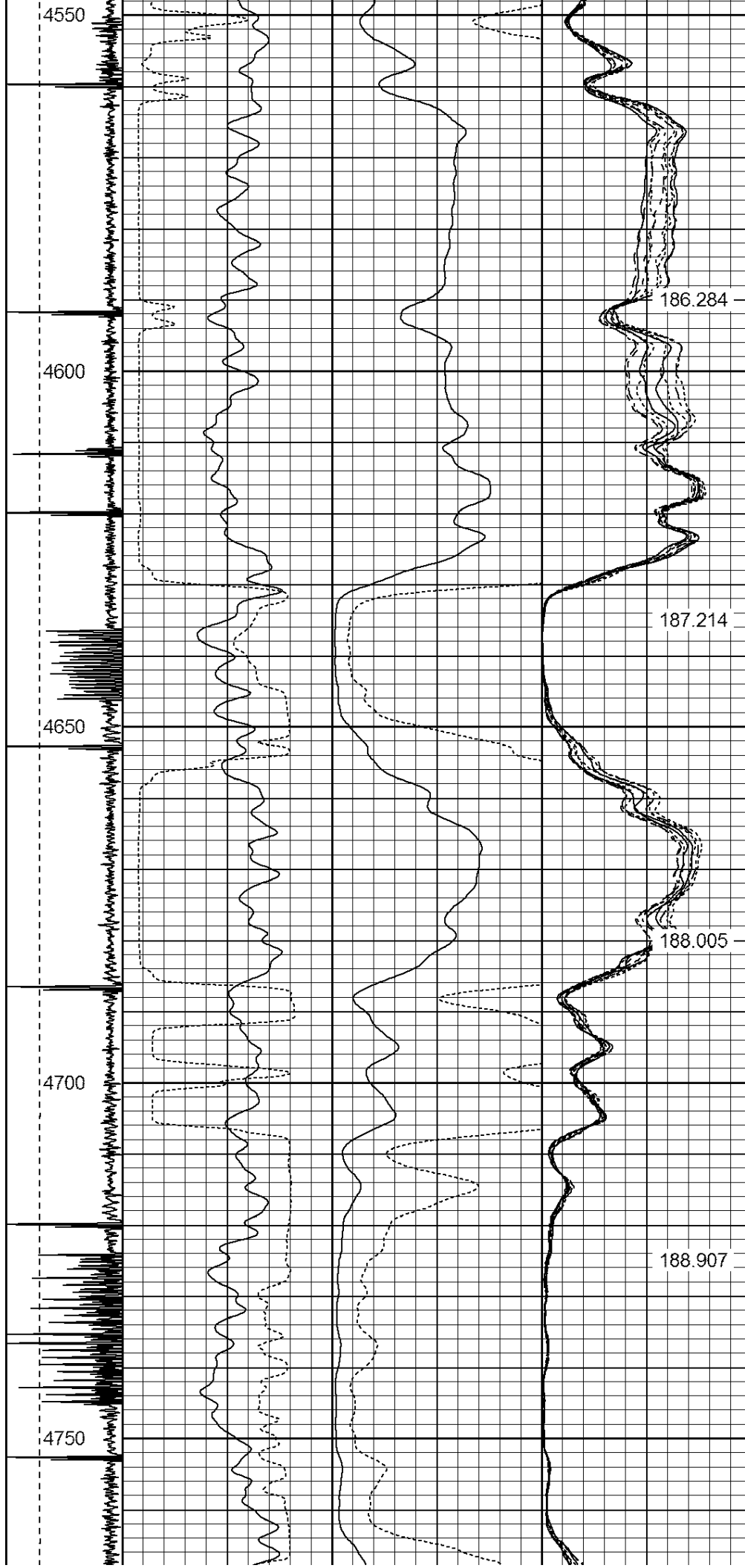


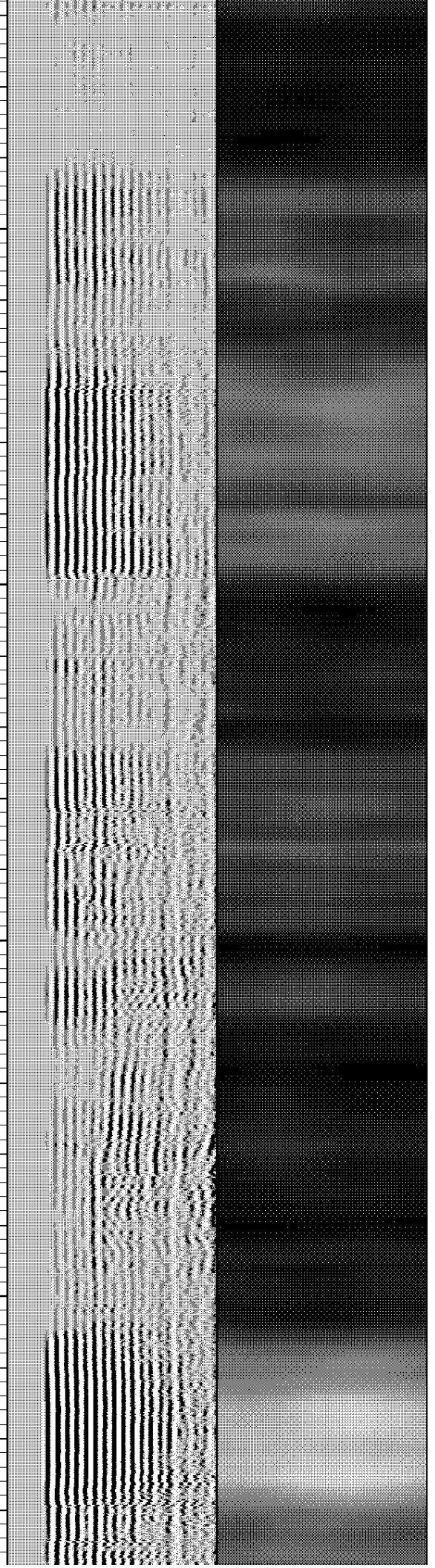
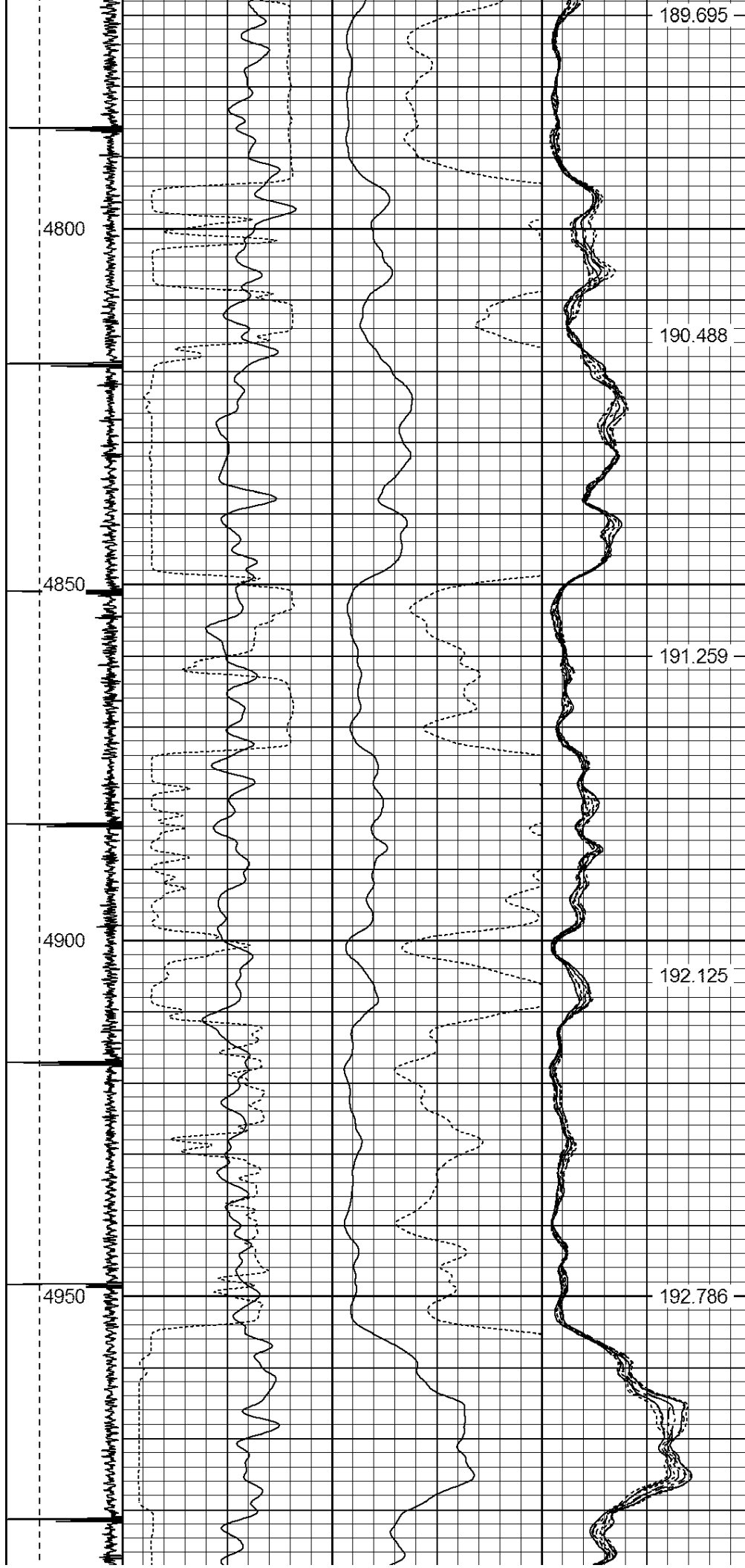


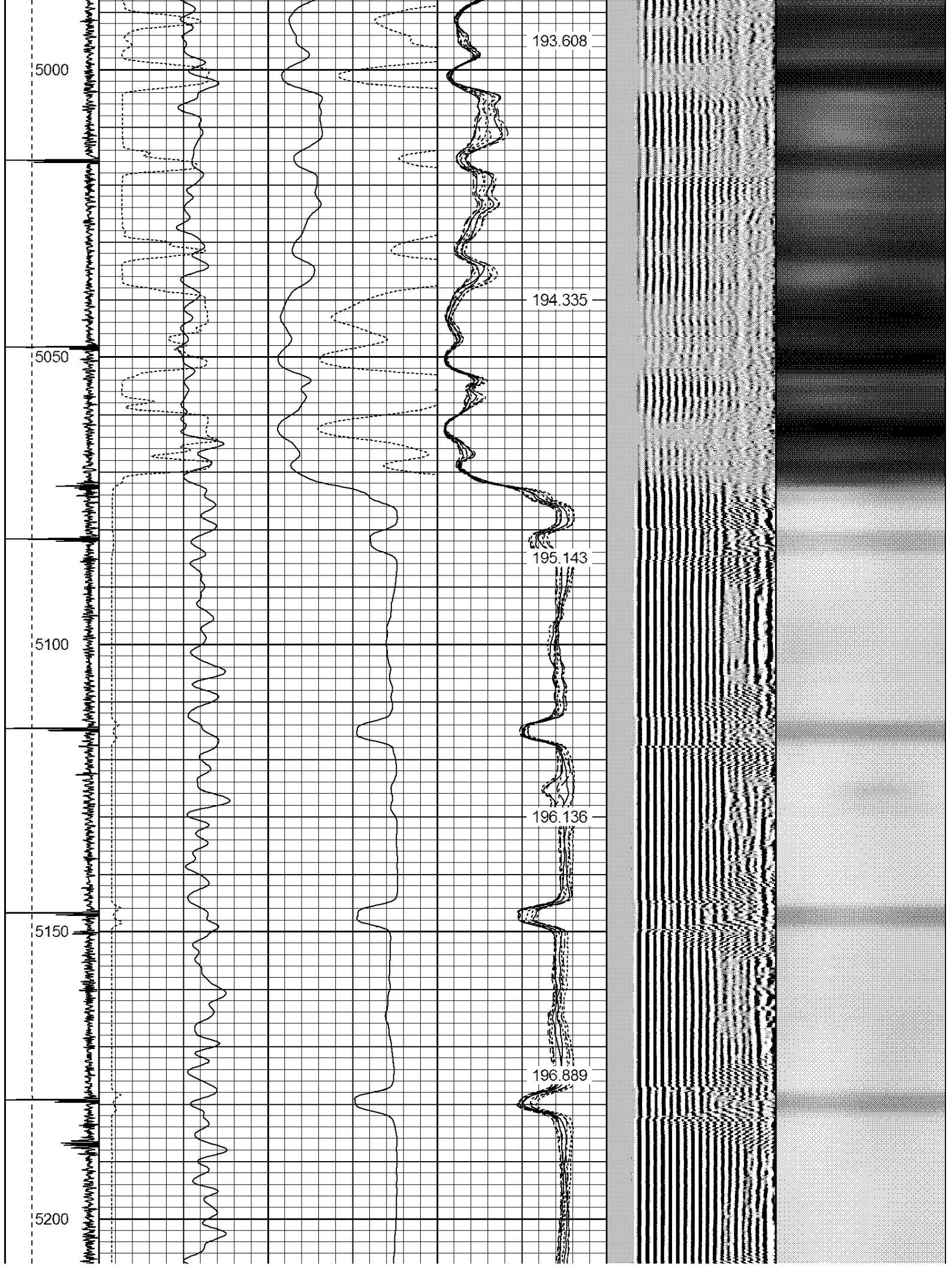


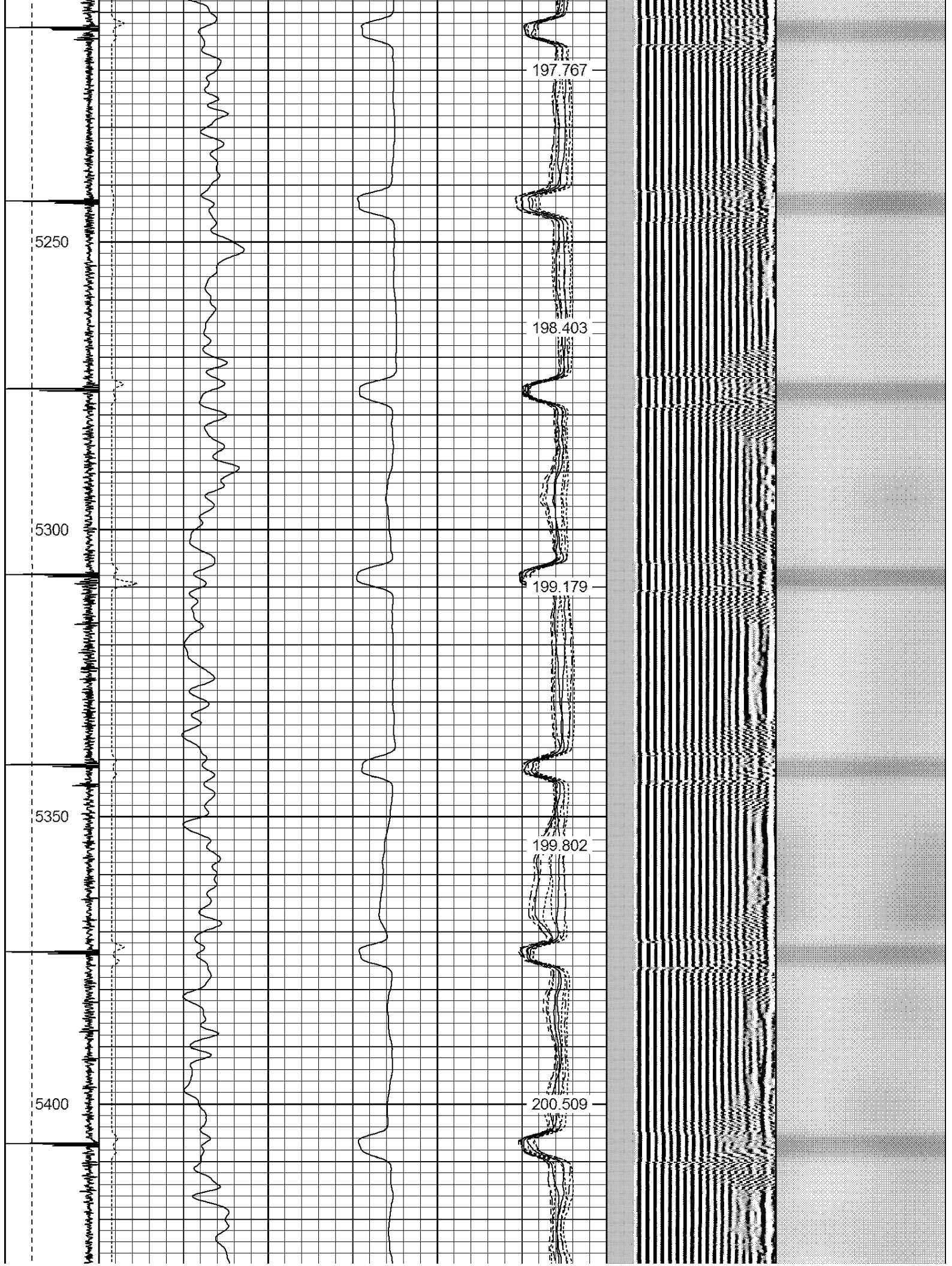


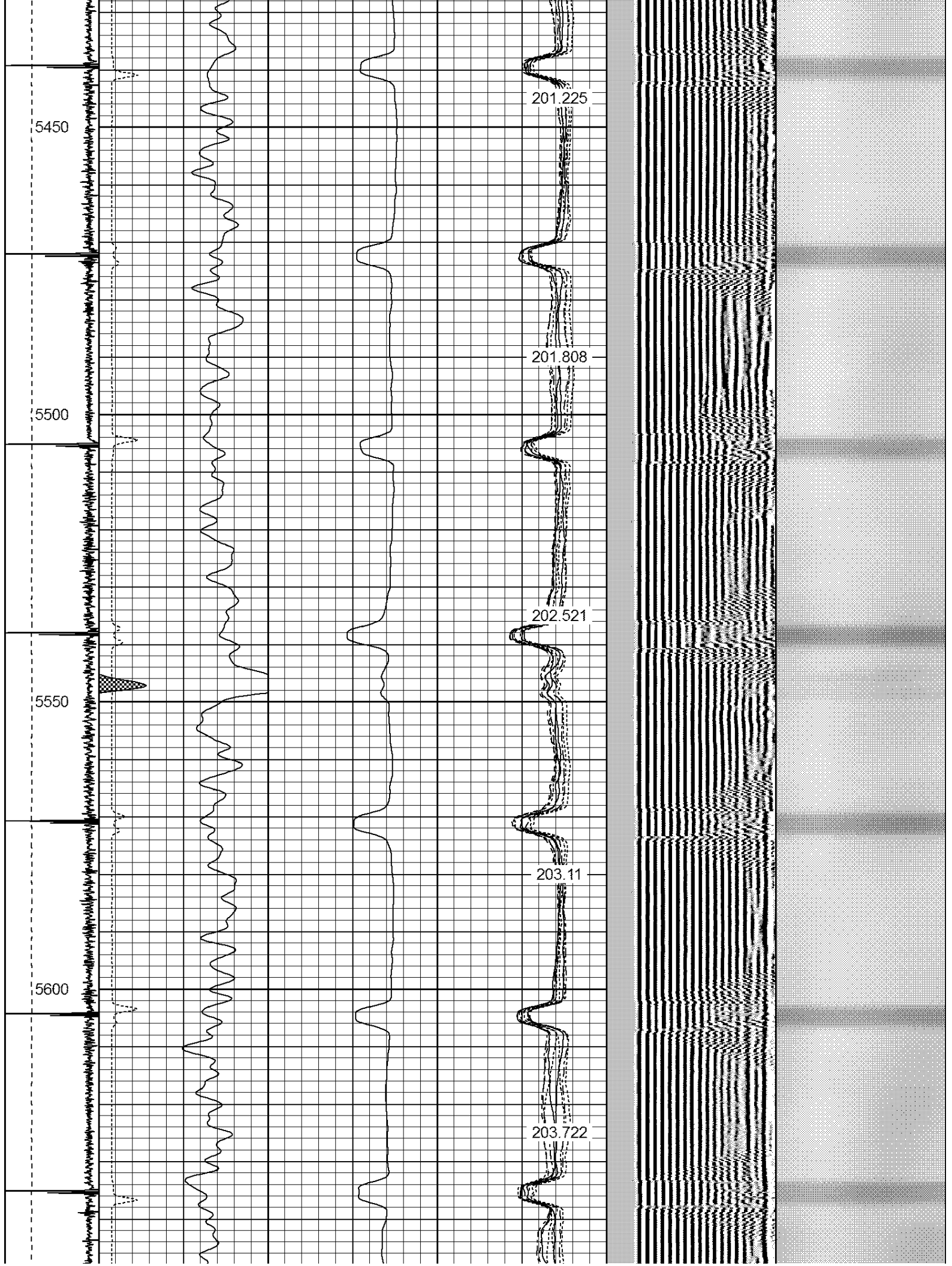


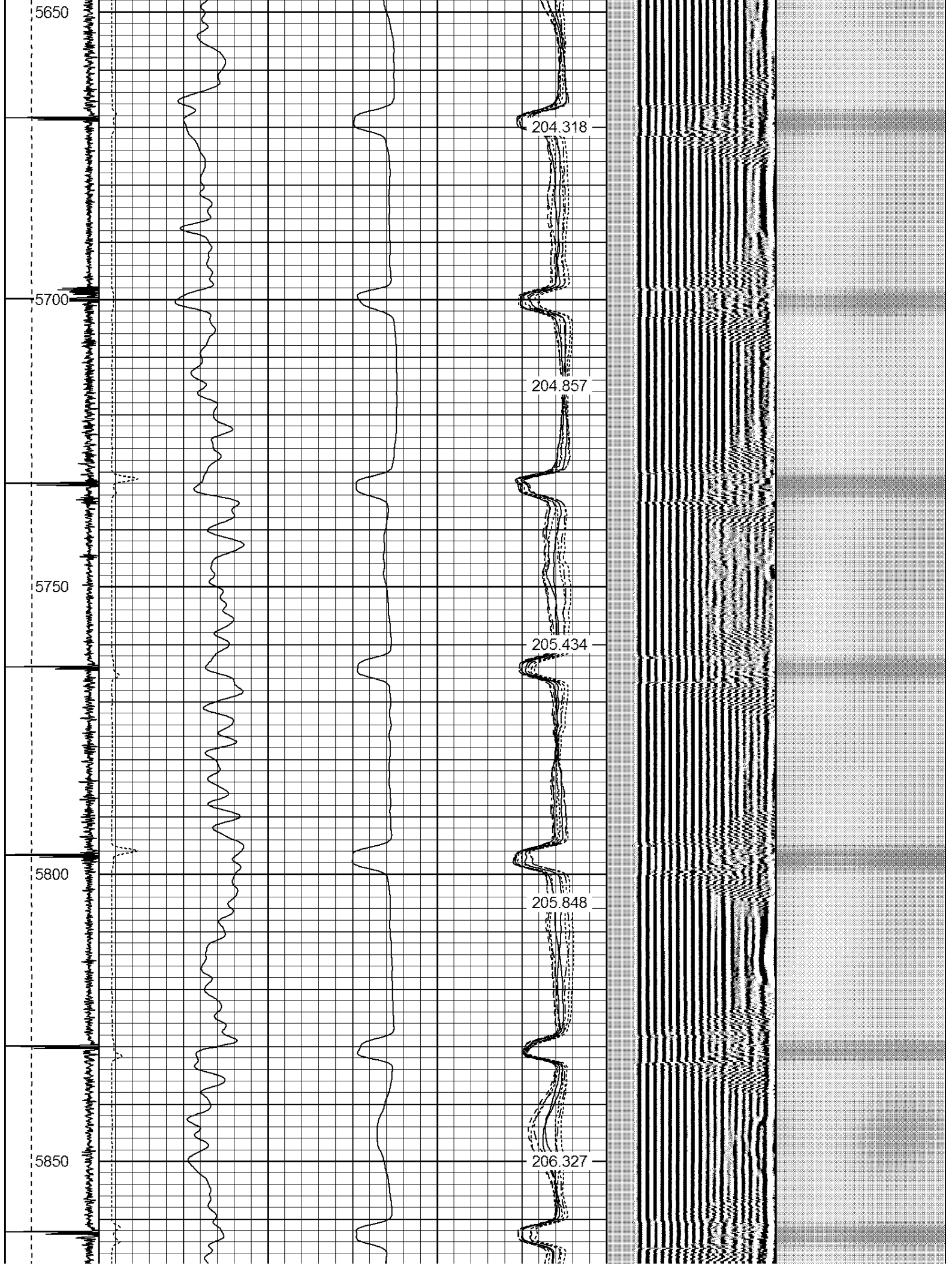


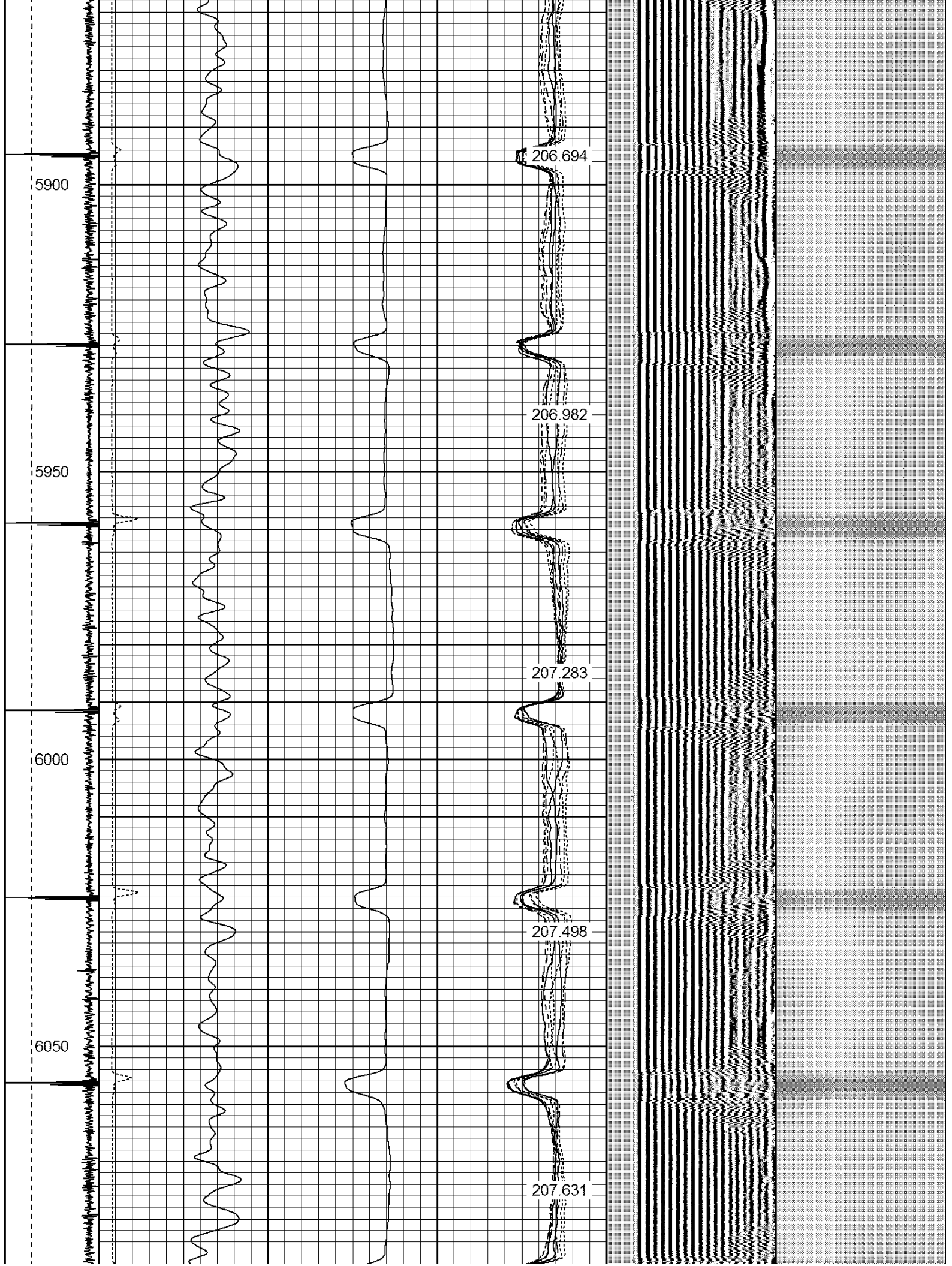




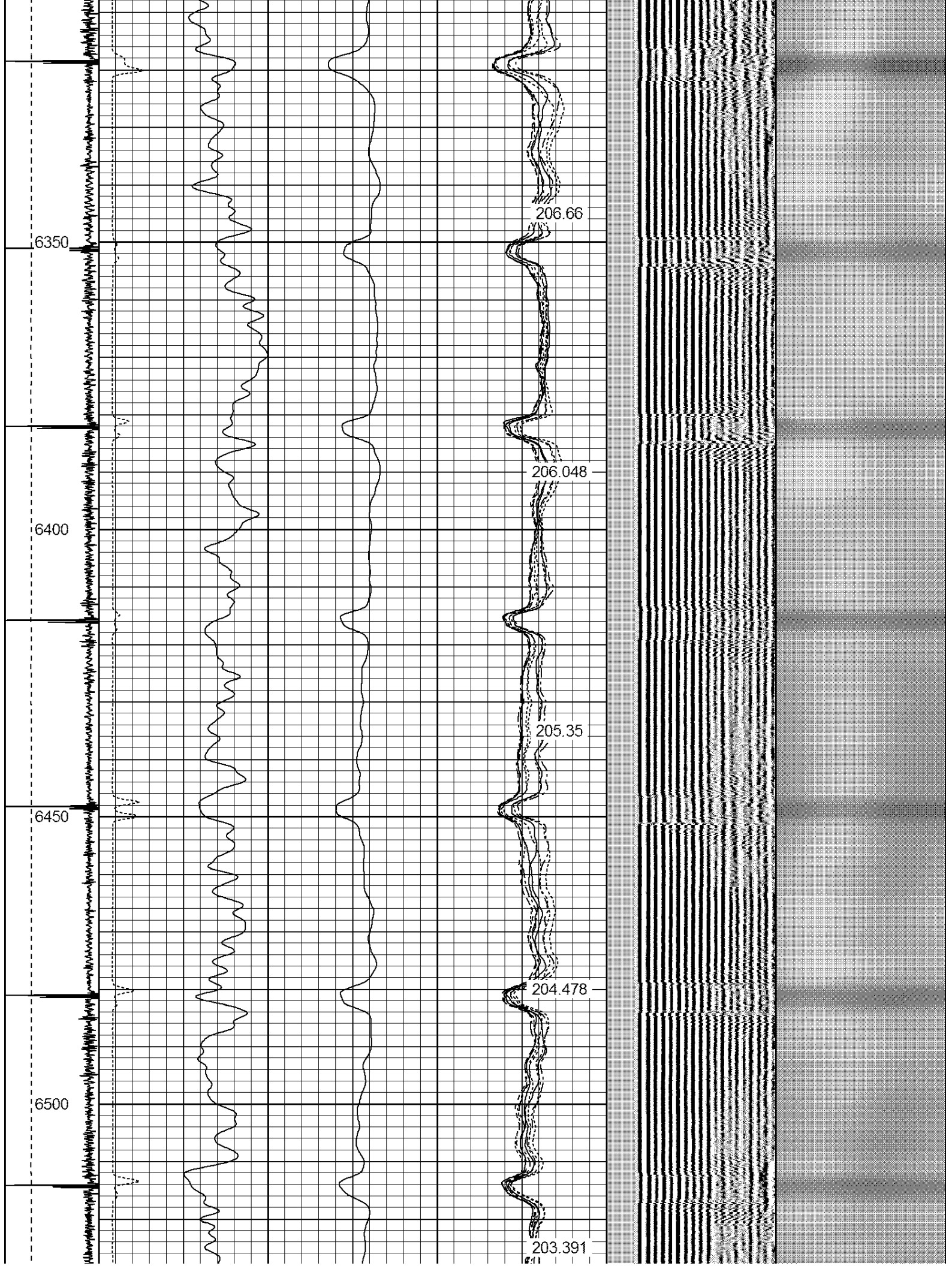


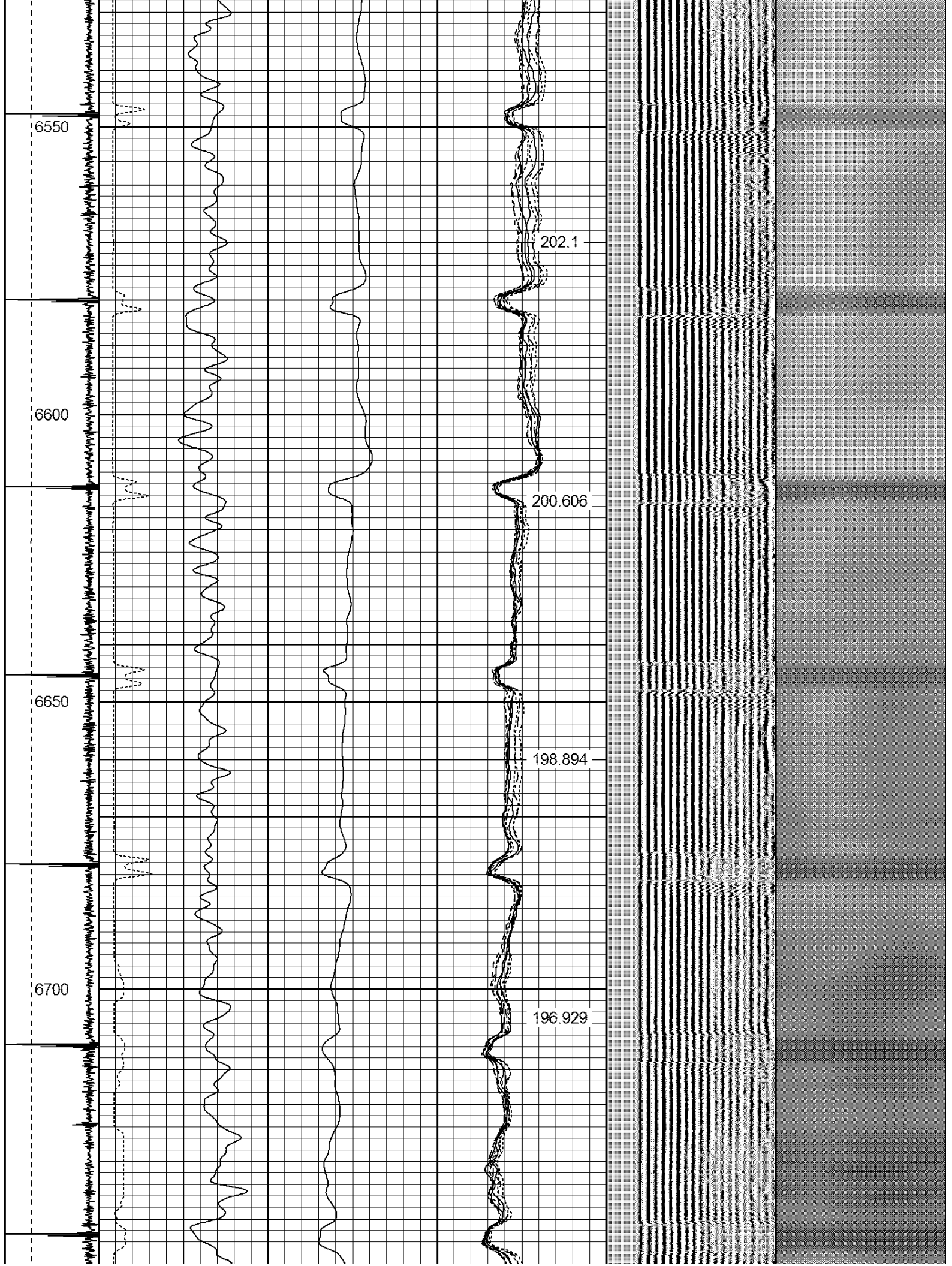


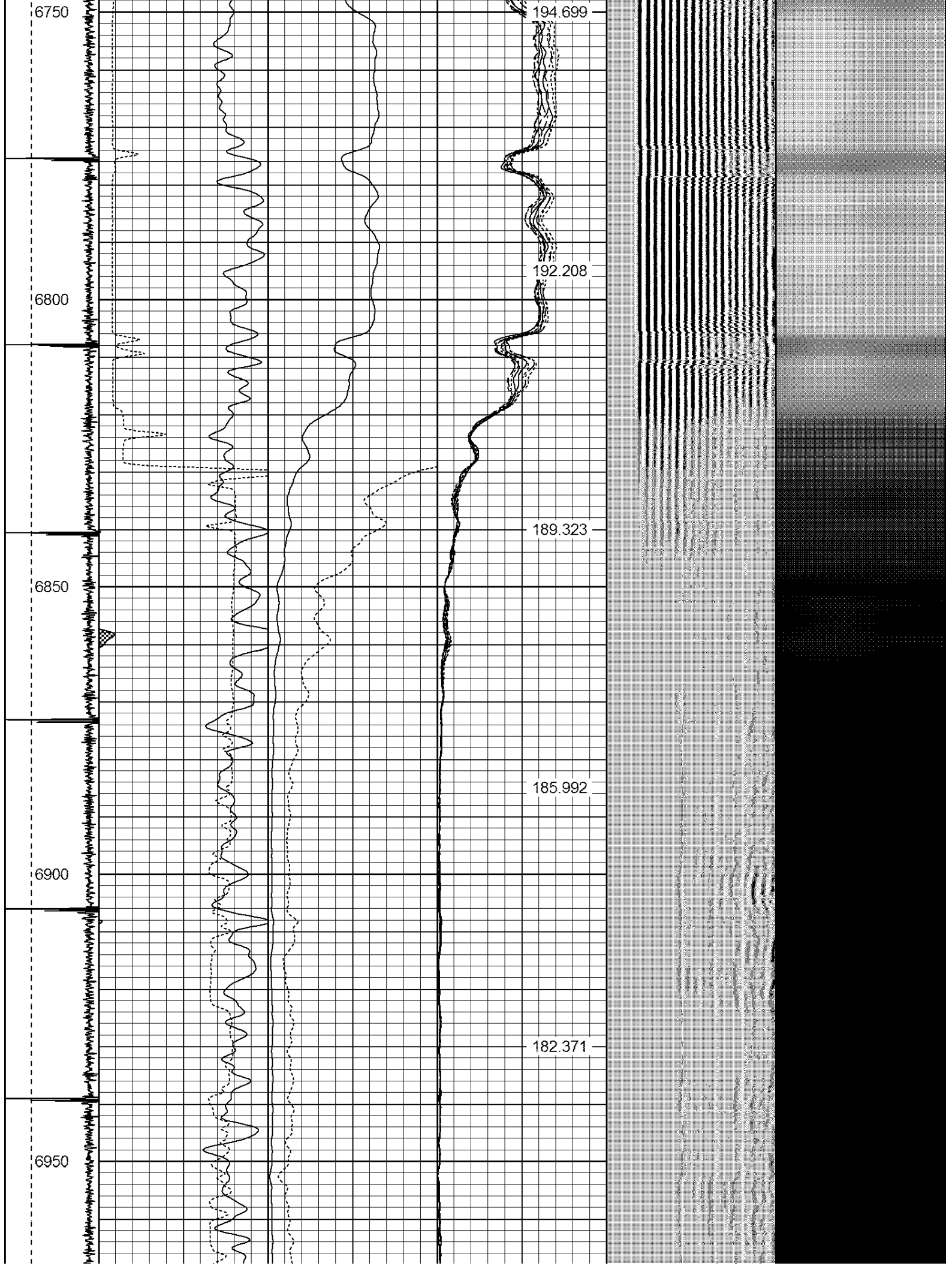


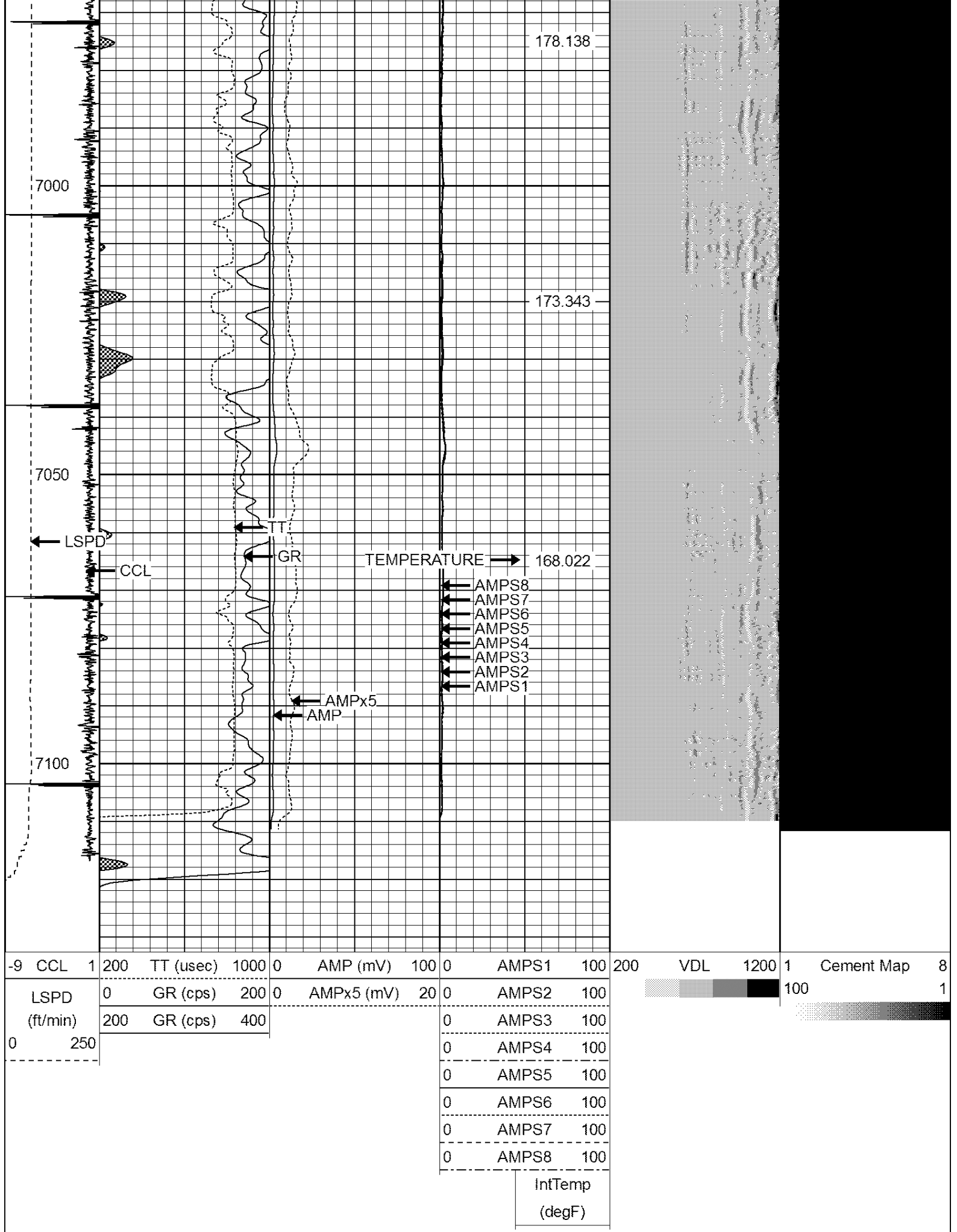


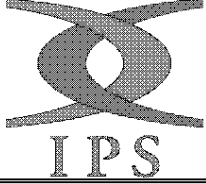








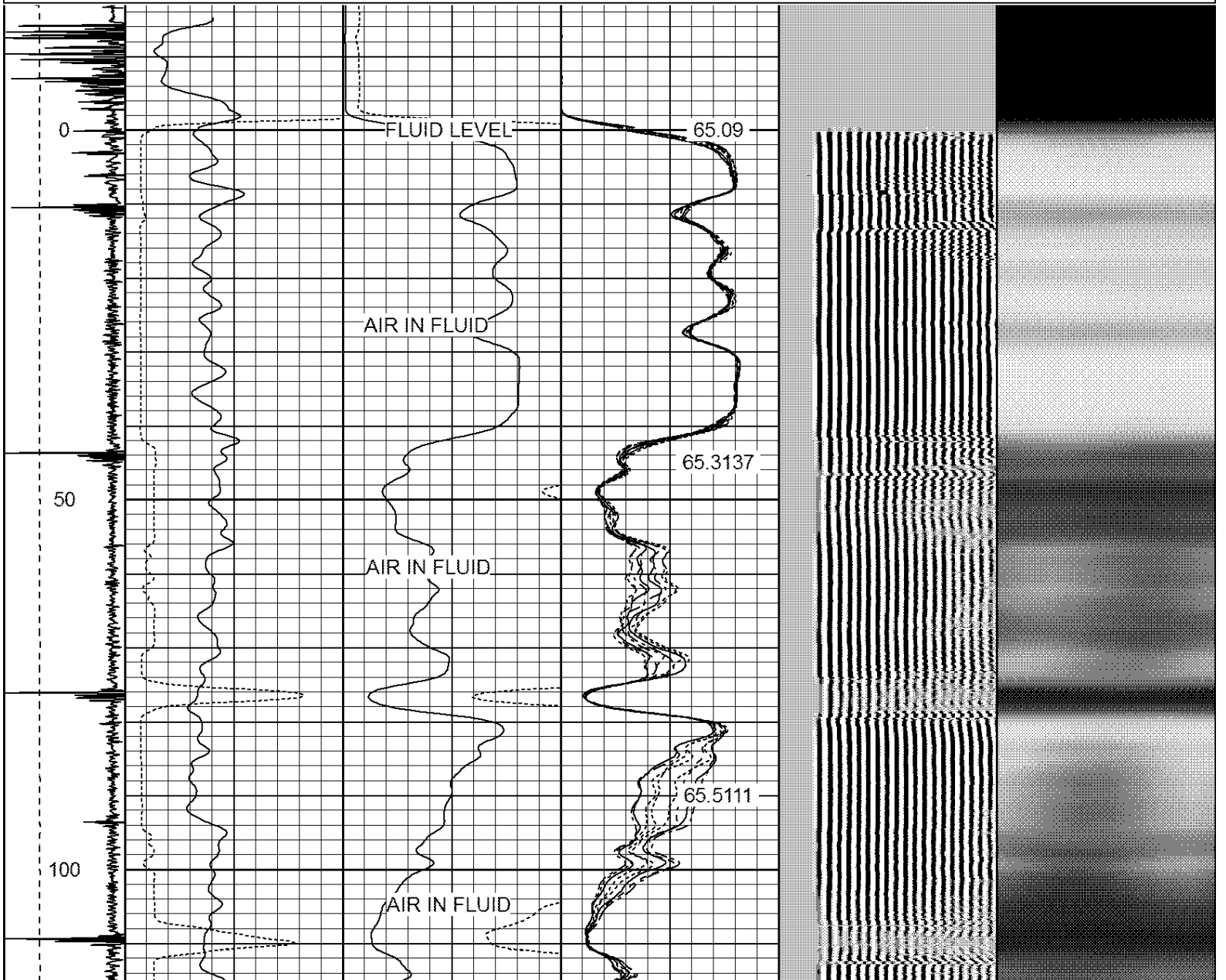


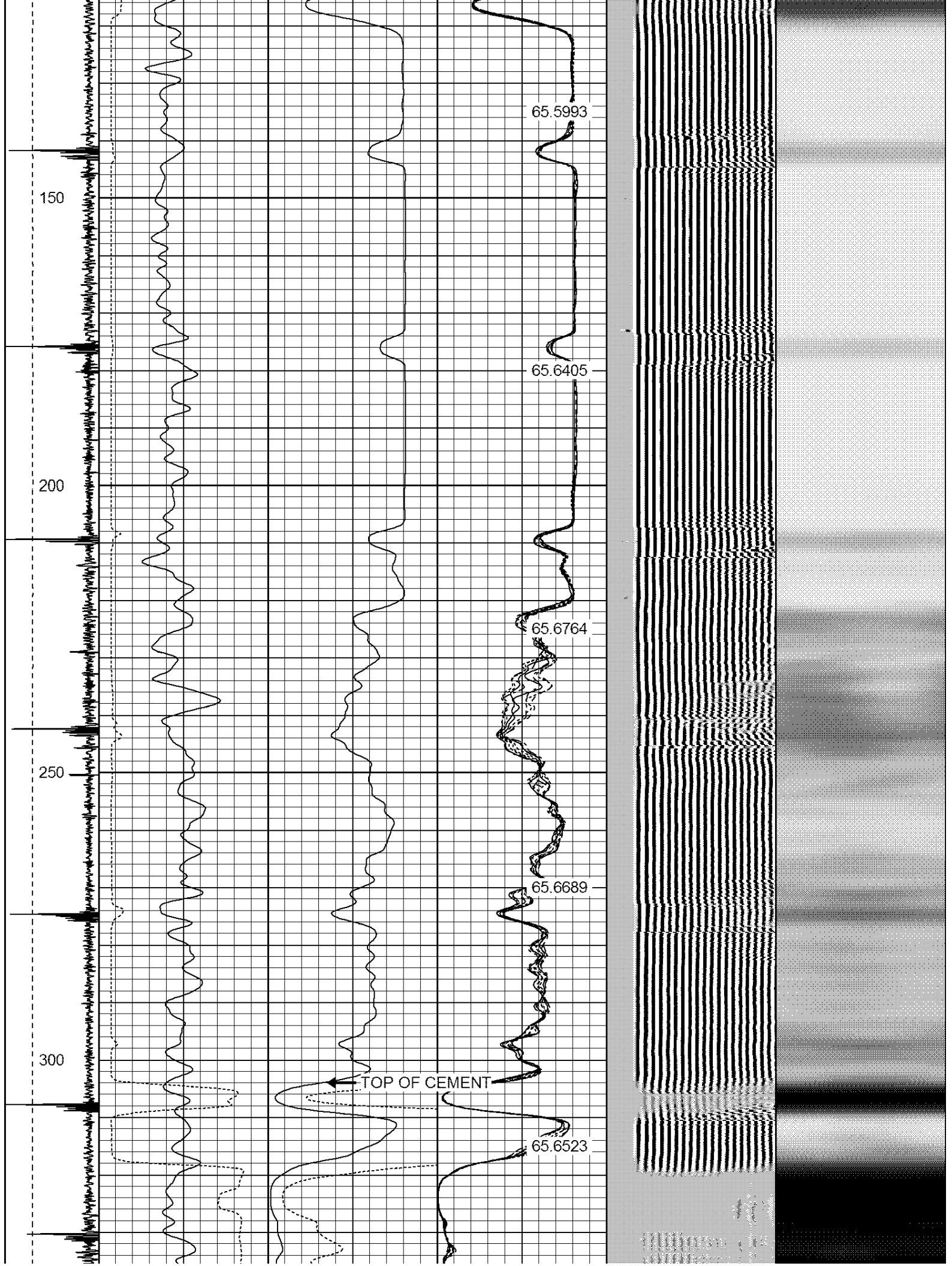


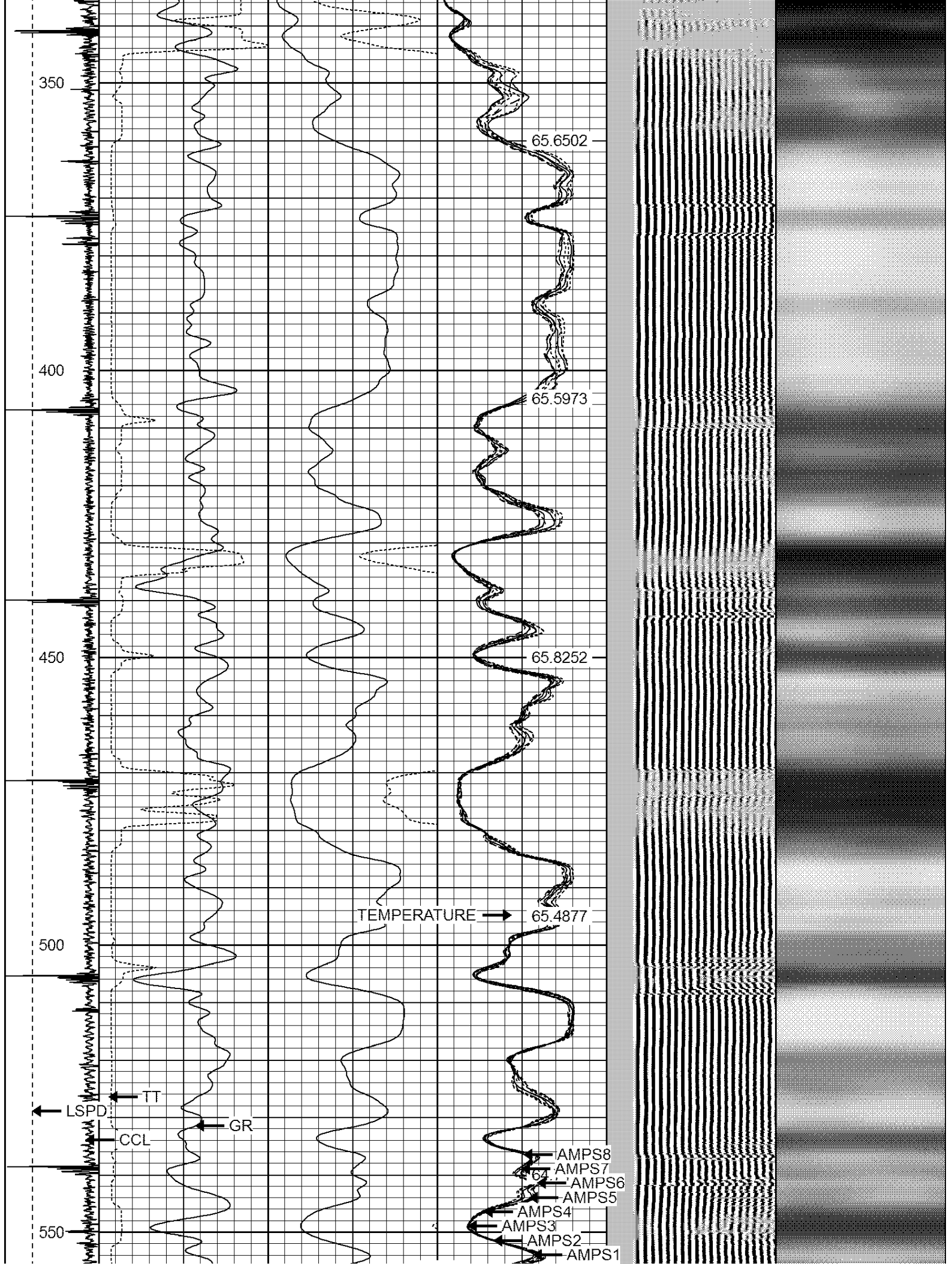
REPEAT PASS

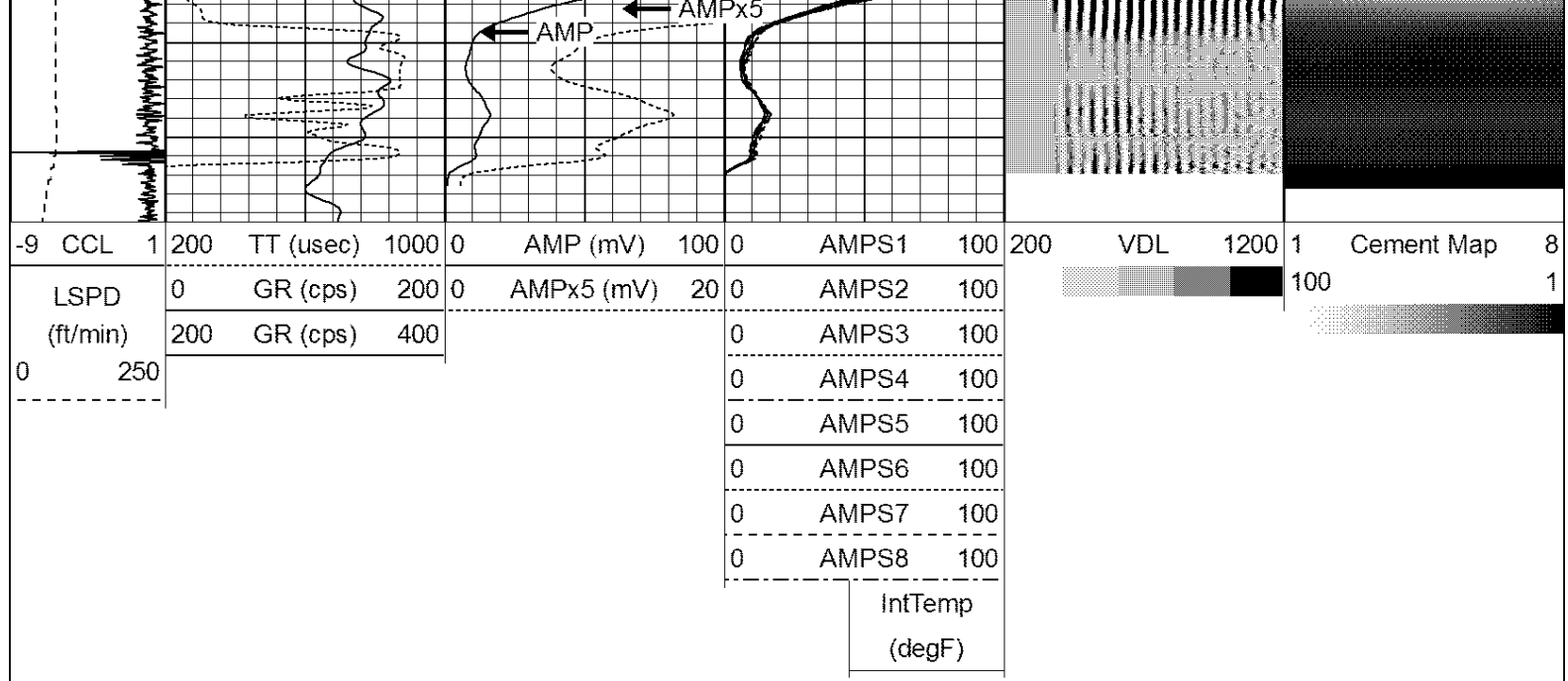
Database File: anderson mel gu 1.db
Dataset Pathname: pass5
Presentation Format: ips_rbt
Dataset Creation: Fri Nov 20 09:56:04 2015 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

-9	CCL	1	200	TT (usec)	1000	0	AMP (mV)	100	0	AMPS1	100	200	VDL	1200	1	Cement Map	8
	LSPD		0	GR (cps)	200	0	AMPx5 (mV)	20	0	AMPS2	100				100		1
	(ft/min)		200	GR (cps)	400				0	AMPS3	100						
0		250							0	AMPS4	100						
									0	AMPS5	100						
									0	AMPS6	100						
									0	AMPS7	100						
									0	AMPS8	100						
										IntTemp							
										(degF)							









Calibration Report

Database File: anderson mel gu 1.db
 Dataset Pathname: pass3
 Dataset Creation: Fri Nov 20 07:30:04 2015 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number: 275
 Tool Model: Probe
 Performed: Wed Jul 16 08:14:01 2014

Calibrator Value: 120.0 cps

Background Reading: 30.0 cps
 Calibrator Reading: 210.0 cps

Sensitivity: 1.1000 cps/cps

Compensated Neutron Calibration Report

Serial Number: 275
 Tool Model: Probe_B

CALIBRATION Wed Jul 30 08:47:19 2008

Detector	Readings	Target	Normalization
Short Space	5001.20 cps	0.00 cps	1.0000
Long Space	1029.31 cps	0.00 cps	1.0000

PRE-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	
3)	Short Space	cps		
	Long Space	cps	pu	

POST-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	pu
3)	Short Space	cps		
	Long Space	cps	pu	pu

Segmented Cement Bond Log Calibration Report

Serial Number: Base
 Tool Model: Probe

 Calibration Casing Diameter: 4.500 in
 Calibration Depth: 2624.224 ft

Master Calibration, performed Fri Nov 20 07:19:24 2015:

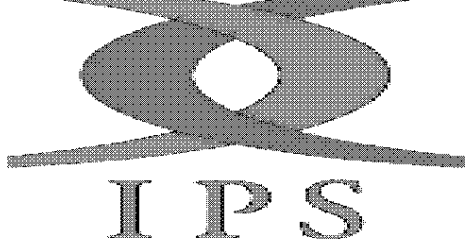
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.012	2.500	1.500	81.196	32.039	1.114
CAL	1.553	2.500				
5'	0.011	2.139	1.500	81.196	37.447	1.079
SUM						
S1	0.011	2.429	0.500	81.000	33.295	0.131
S2	0.012	2.500	0.500	81.000	32.350	0.124
S3	0.010	2.500	0.500	81.000	32.333	0.167
S4	0.010	2.500	0.500	81.000	32.336	0.162
S5	0.011	2.500	0.500	81.000	32.349	0.129
S6	0.010	2.497	0.500	81.000	32.370	0.163
S7	0.015	2.470	0.500	81.000	32.796	0.002
S8	0.012	2.442	0.500	81.000	33.125	0.118

Internal Reference Calibration, performed Tue Jun 05 07:53:42 2012:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	1.553	2.500	1.000	0.000

Air Zero Calibration, performed Fri Nov 20 07:01:12 2015:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	
S5	0.000		0.000		0.000	
S6	0.000		0.000		0.000	
S7	0.000		0.000		0.000	
S8	0.000		0.000		0.000	



Company	ANADARKO PETROLEUM CORP.
Well	ANDERSON MEL GU 1
Field	WATTENBERG
County	WELD
State	COLORADO