



**RADIAL CEMENT BOND LOG**  
**GAMMA RAY**  
**CCL**

Company Kerr McGee Oil and Gas  
Well KUIPERS POOLING UNIT #2  
Field Wattenberg  
County WELD State CO

Location: API # : 05-123-09896  
NE/NW Other Services

SEC 12 TWP 2N RGE 67W  
Permanent Datum GL Elevation 4832  
Log Measured From KB 11'  
Drilling Measured From KB  
Elevation  
K.B. 4843  
D.F. 4842  
G.L. 4832

Company Kerr McGee Oil and Gas  
Well KUIPERS POOLING UNIT #2  
Field Wattenberg  
County WELD  
State CO

Date 11-14-2013

Run Number ONE  
Depth Driller 7958  
Depth Logger 6780  
Bottom Logged Interval 7702  
Top Log Interval SURFACE  
Open Hole Size 4.5  
Type Fluid WATER  
Density / Viscosity 1.0  
Max. Recorded Temp. 223  
Estimated Cement Top 7180  
Time Well Ready  
Time Logger on Bottom  
Equipment Number 7770  
Location GREELEY  
Recorded By C.JONES  
Witnessed By L.MORALES

Borehole Record  
Run Number Bit From To Size Weight From To  
ONE 2.38 4.7# 11 7747  
TWO

Casing Record  
Surface String 8.63 Wgt/Ft 24# Top 11 Bottom 530  
Prot. String  
Production String 4.5 11.6# 11 7938  
Liner

<<< Fold Here >>>

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.  
NOT CORRELATED.  
THANK YOU FOR USING WARRIOR ENERGY!

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

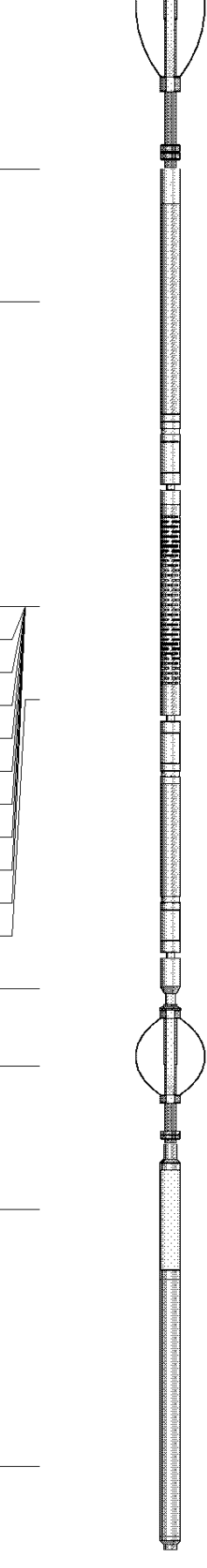
Tool Joint	Tool Joint Length (ft)	Tool Joint Weight (lb)	Tool Joint O.D. (in)	Tool Joint Description	Tool Joint Weight (lb)	Tool Joint O.D. (in)	Tool Joint Length (ft)
HEADVOLT	14.75						
IntTemp	13.33						
WVFS3FT	10.08						
WVFCAL	10.08						
WVFS1	10.08						
WVFS2	10.08						
WVFS3	10.08						
WVFS4	10.08						
WVFS5	10.08						
WVFS6	10.08						
WVFS7	10.08						
WVFS8	10.08						
WVFS5FT	9.08						
CNLSC	6.00						
CNSSC	5.17						
CCL	3.64						
GR	0.90						
PTS275		2.83	2.75				
RBT-Probe (Base)		8.92	2.75	90.00			
CNT-Probe_B (275)		1.50	2.75	18.00			
GR-Probe (275)		4.33	2.75	30.00			

Dataset: kuipers pooling unit 2.db: field/well/run1/pass7

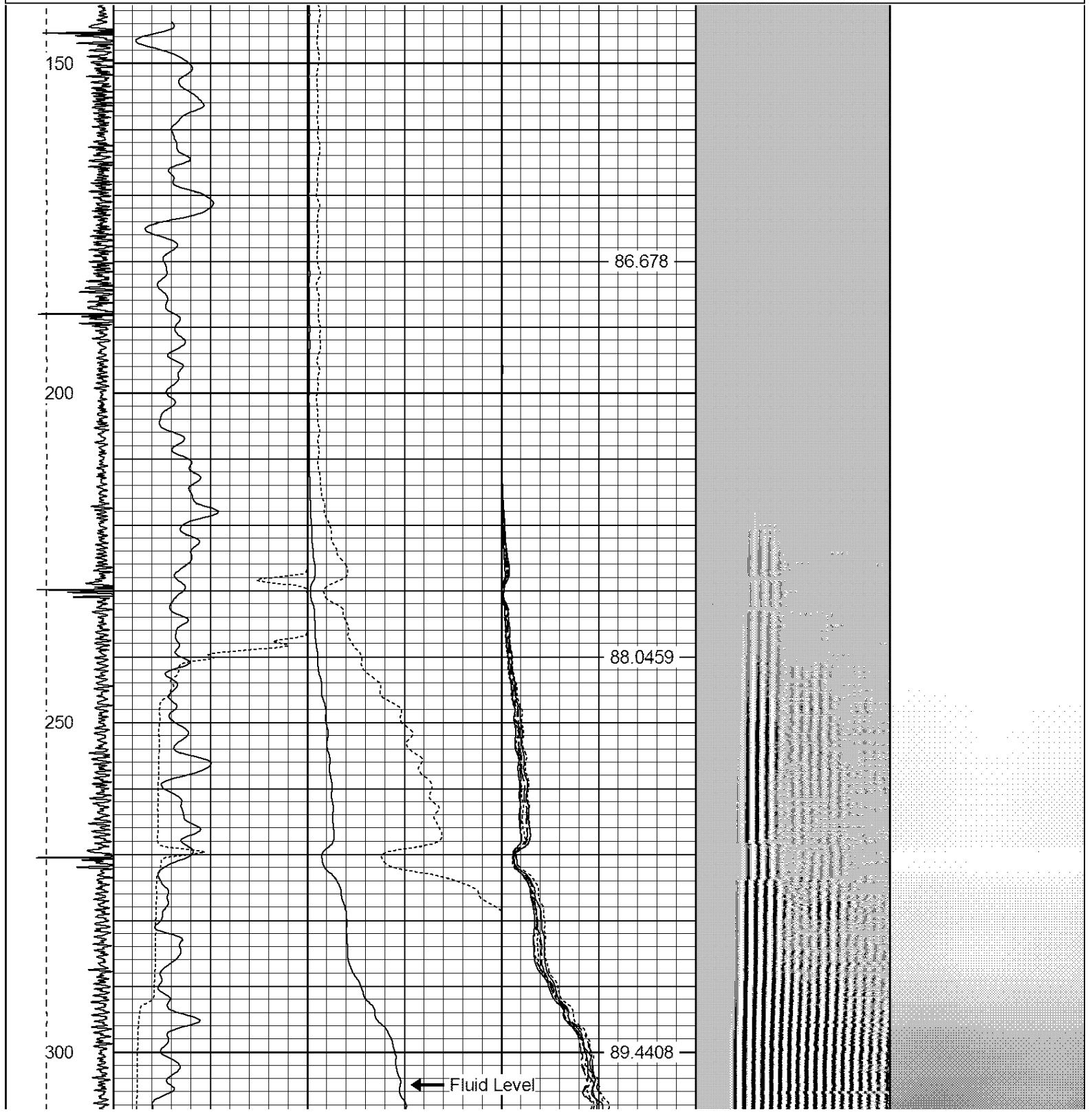
Total Length: 17.58 ft

Total Weight: 138.00 lb

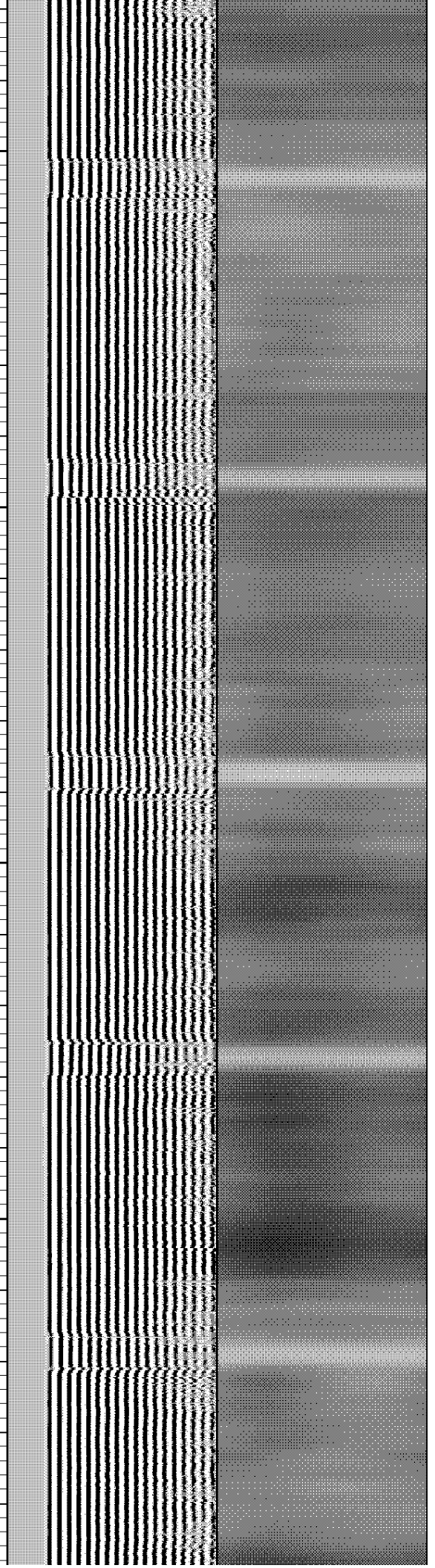
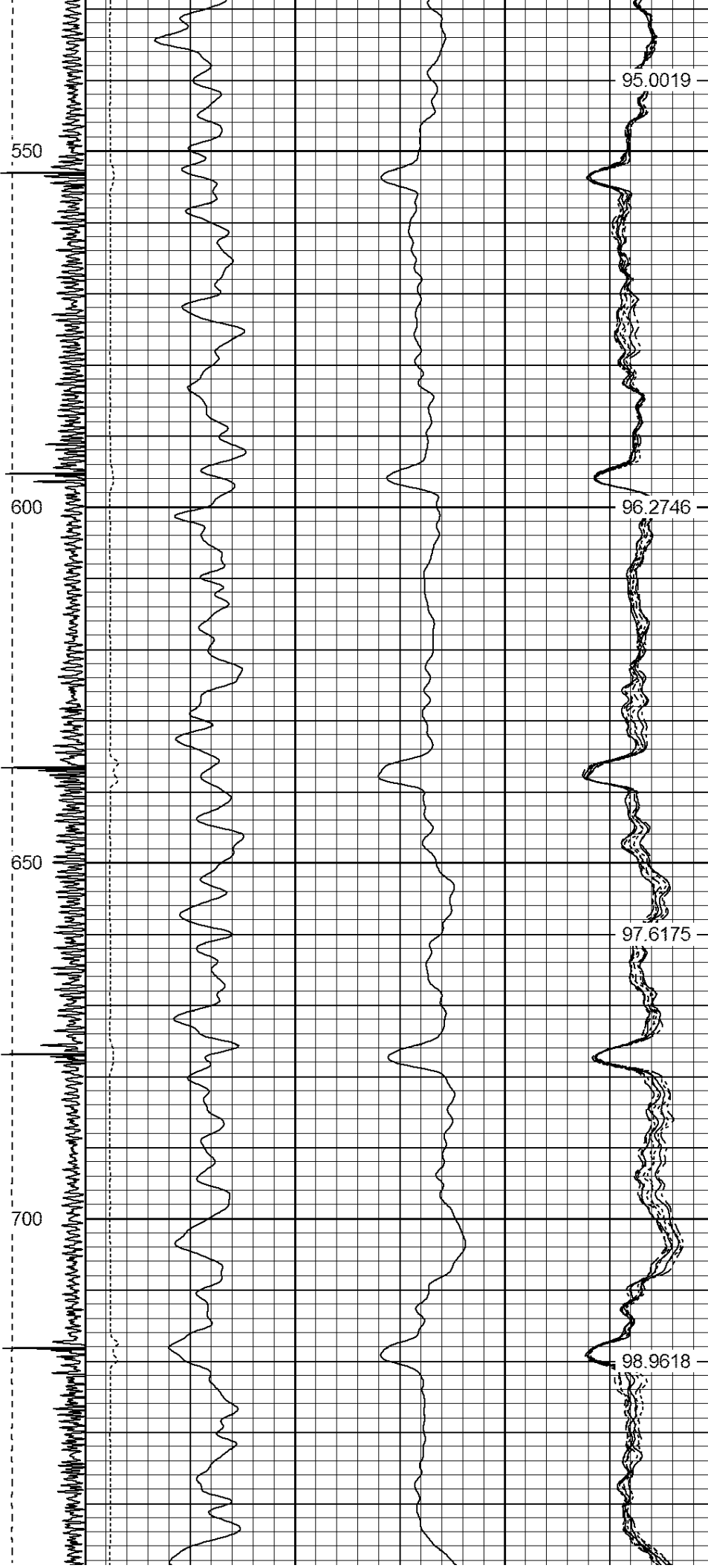
O.D. 2.75 in

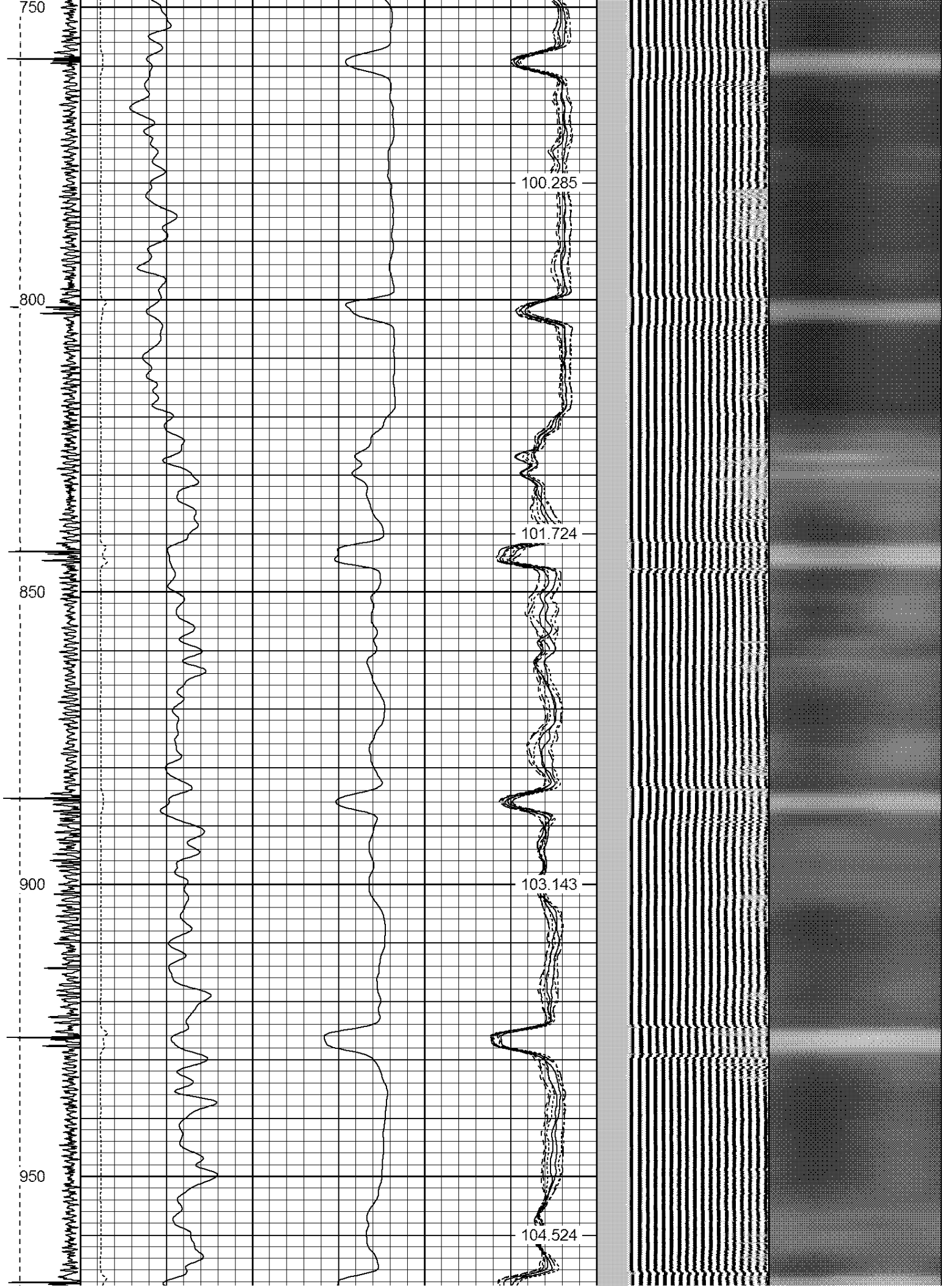


-9	CCL	1	200	TT (usec)	800	0	AMP (mV)	100	0	AMPS1	100	200	VDL	1200	1	Cement Map	8
LSPD			0	GR (GAPI)	200	0	AMPx5 (mV)	20	0	AMPS2	100				1		100
(ft/min)			200	GR (GAPI)	400				0	AMPS4	100						
0		250							0	AMPS5	100						
									0	AMPS6	100						
									0	AMPS7	100						
									0	AMPS8	100						
										IntTemp							
										(degF)							

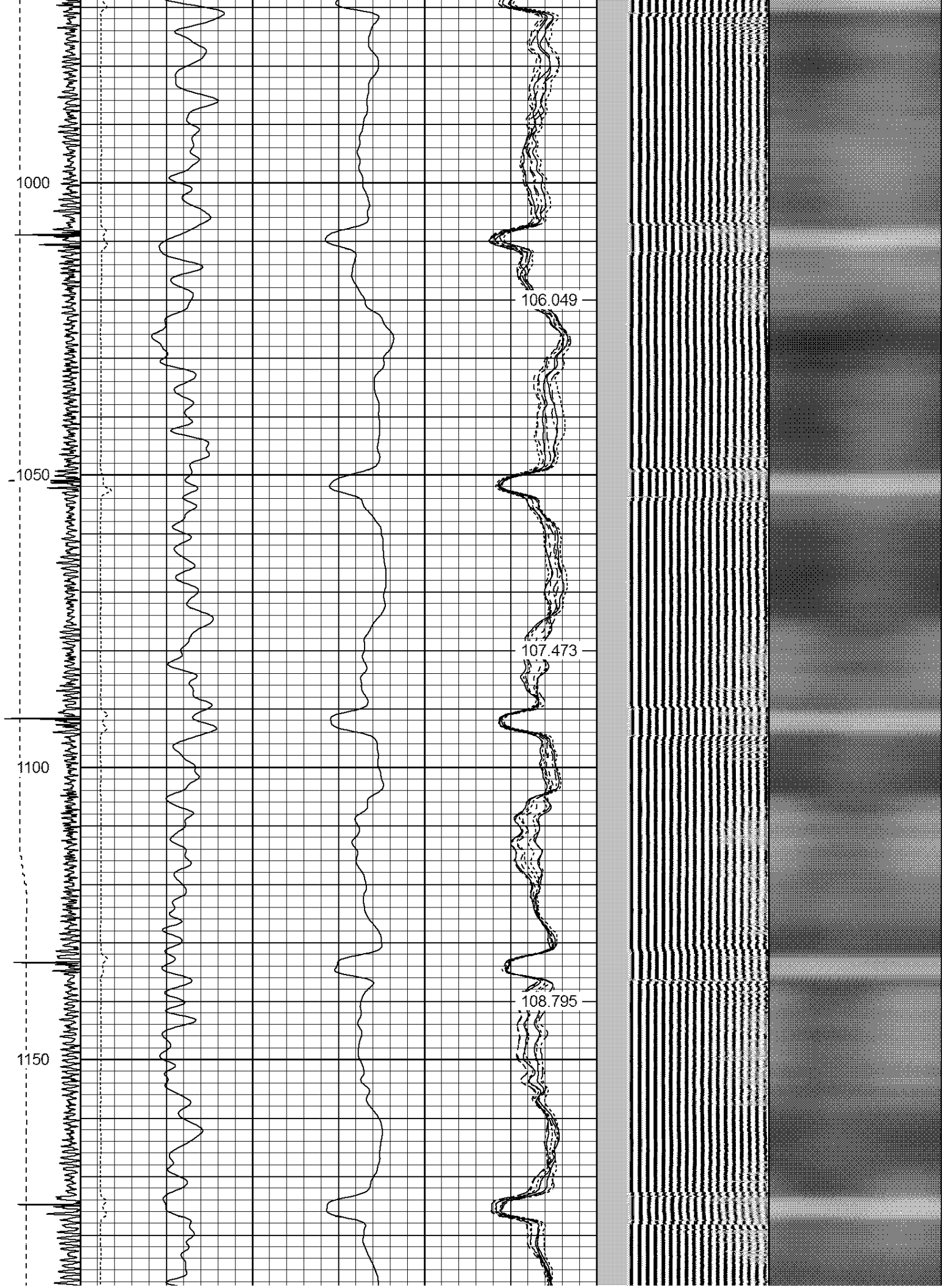










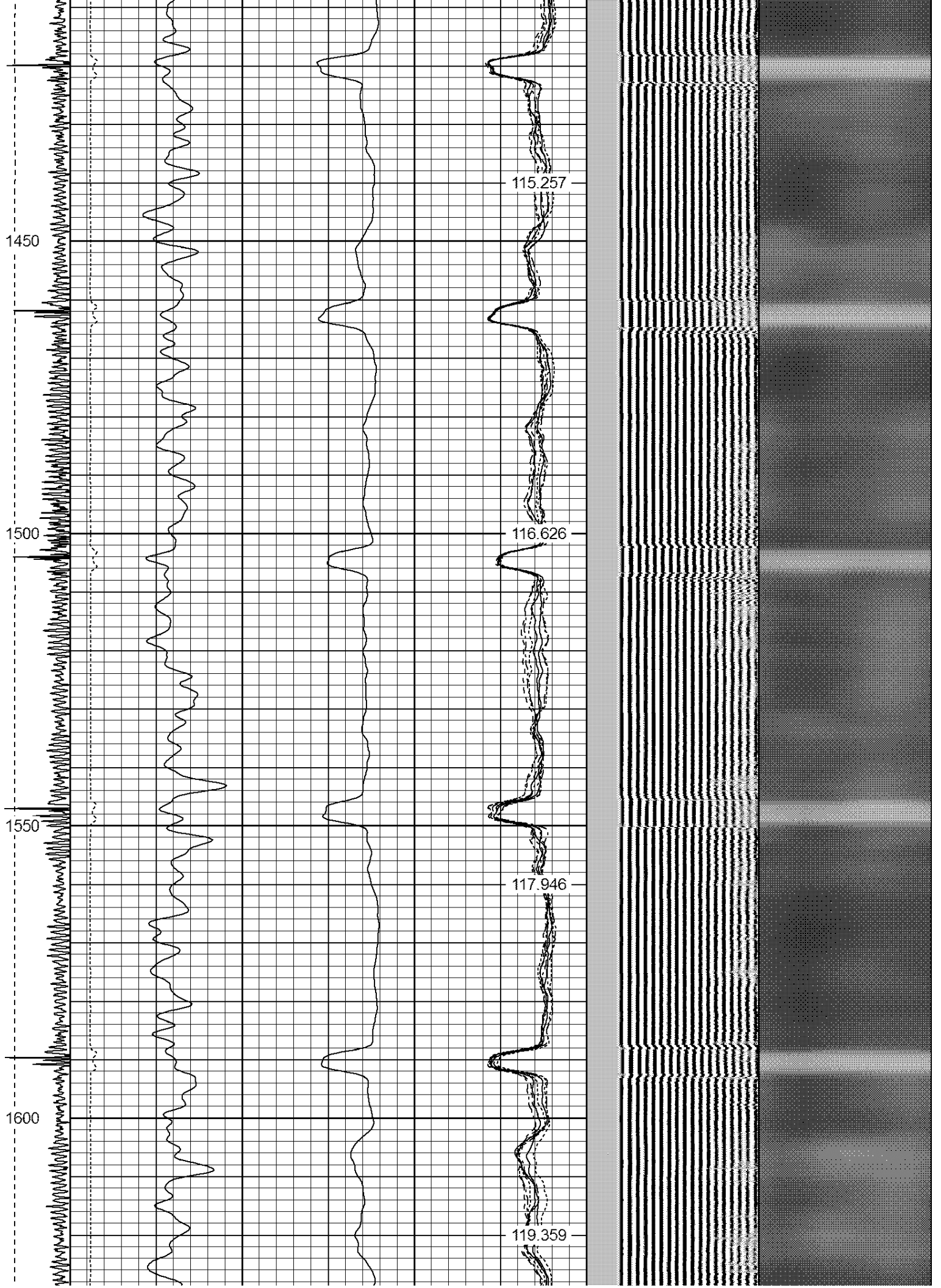


1200  
1250  
1300  
1350  
1400

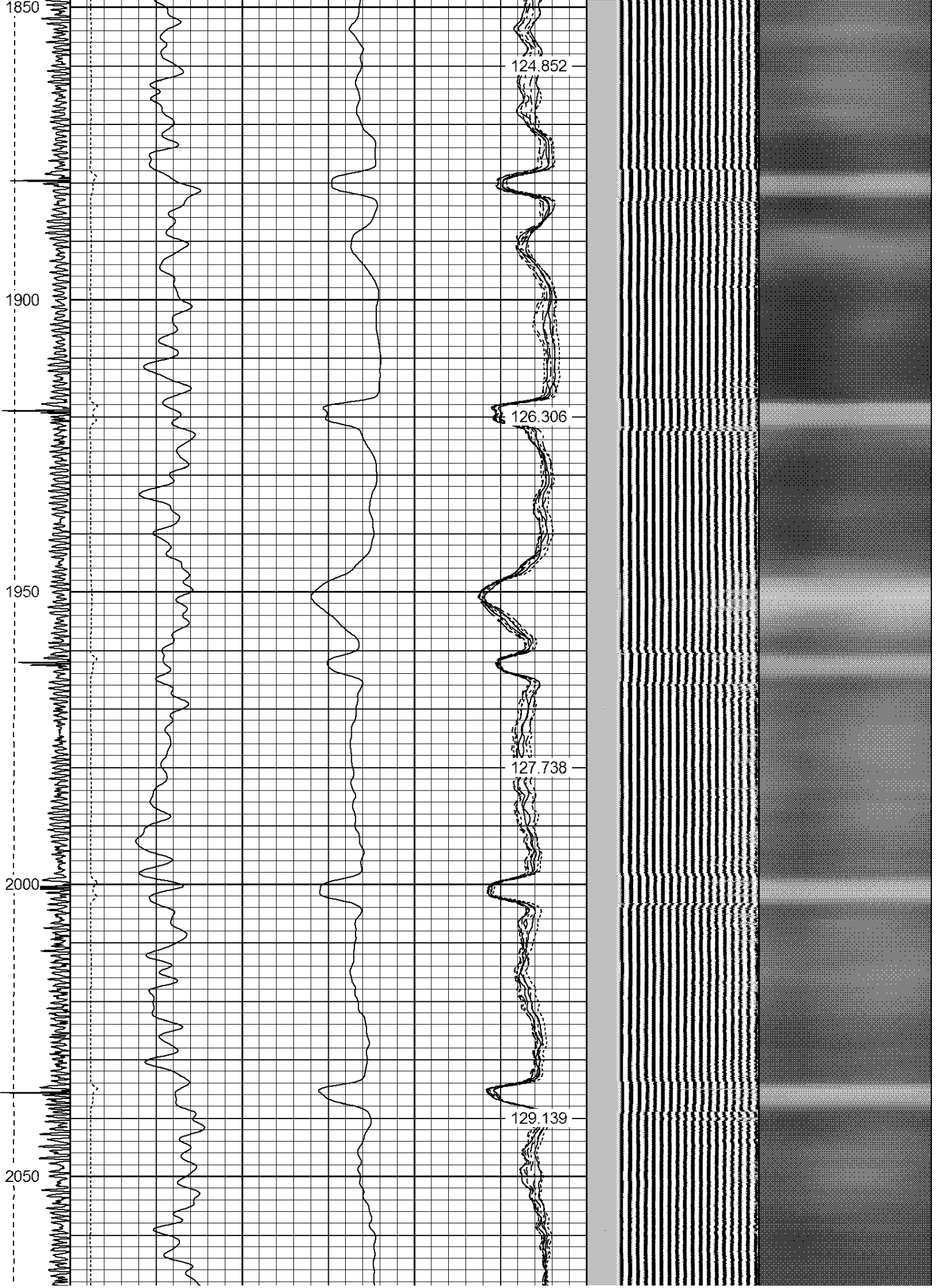
110.02  
111.263  
112.561  
113.924









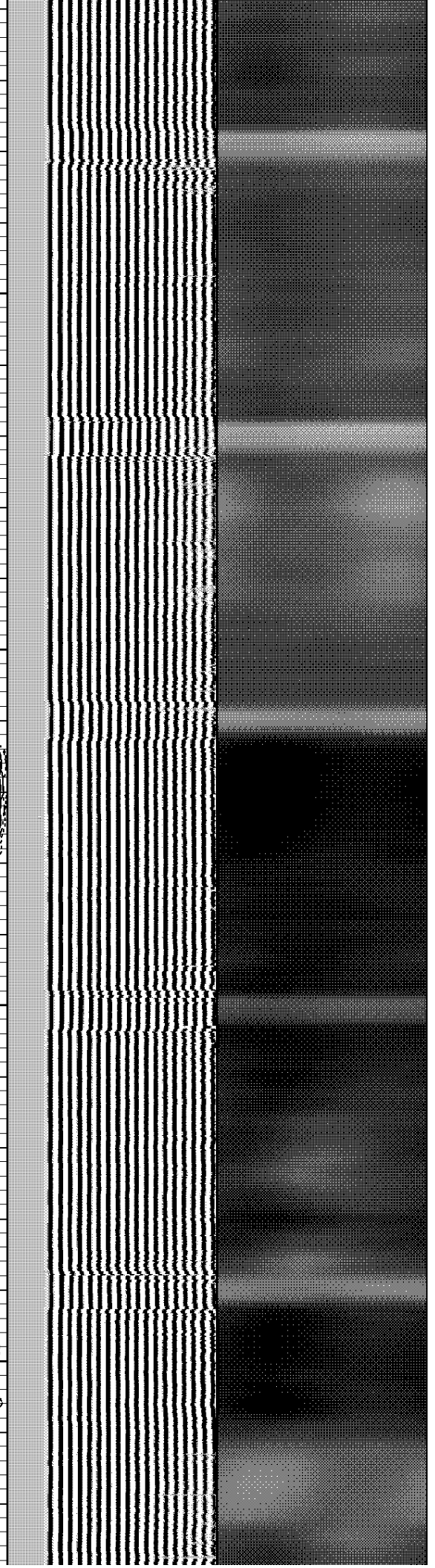
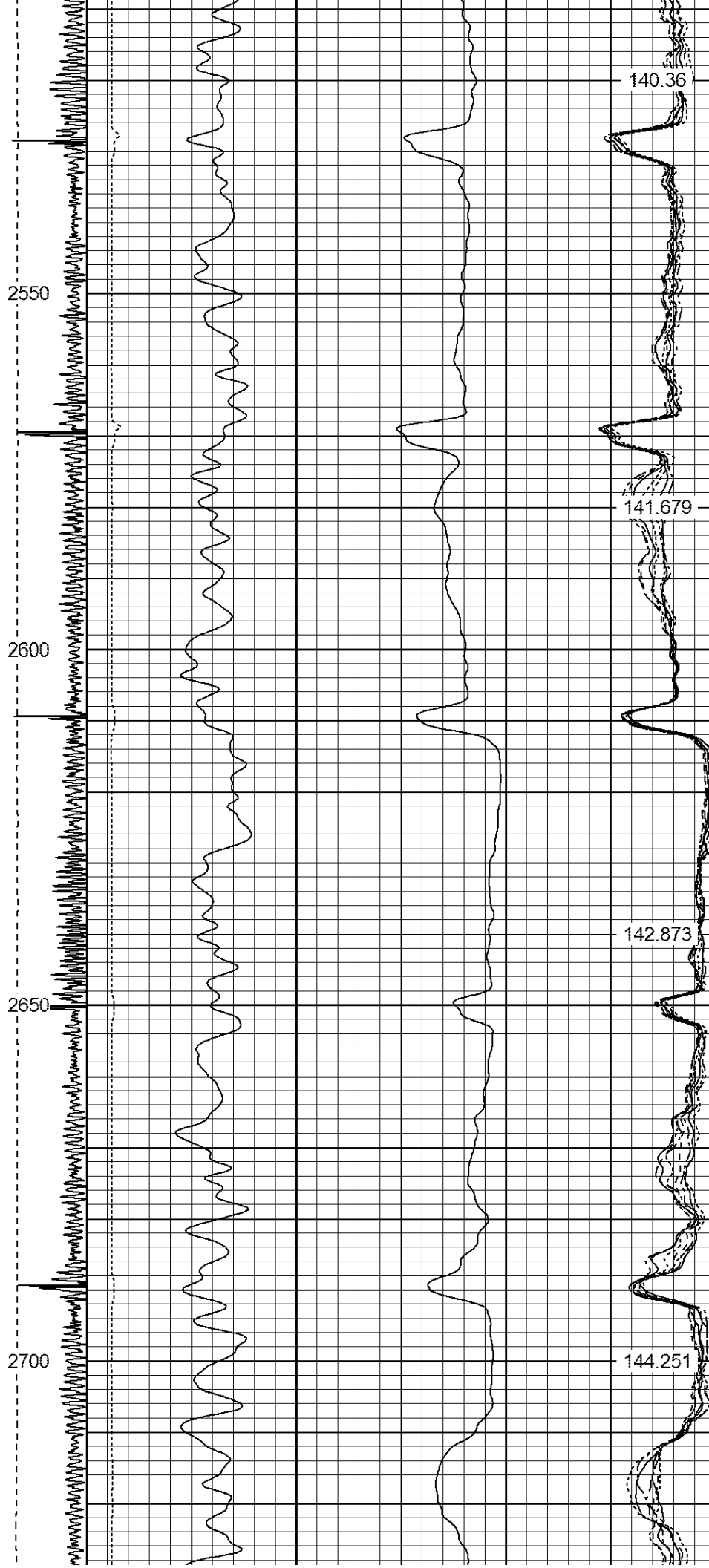


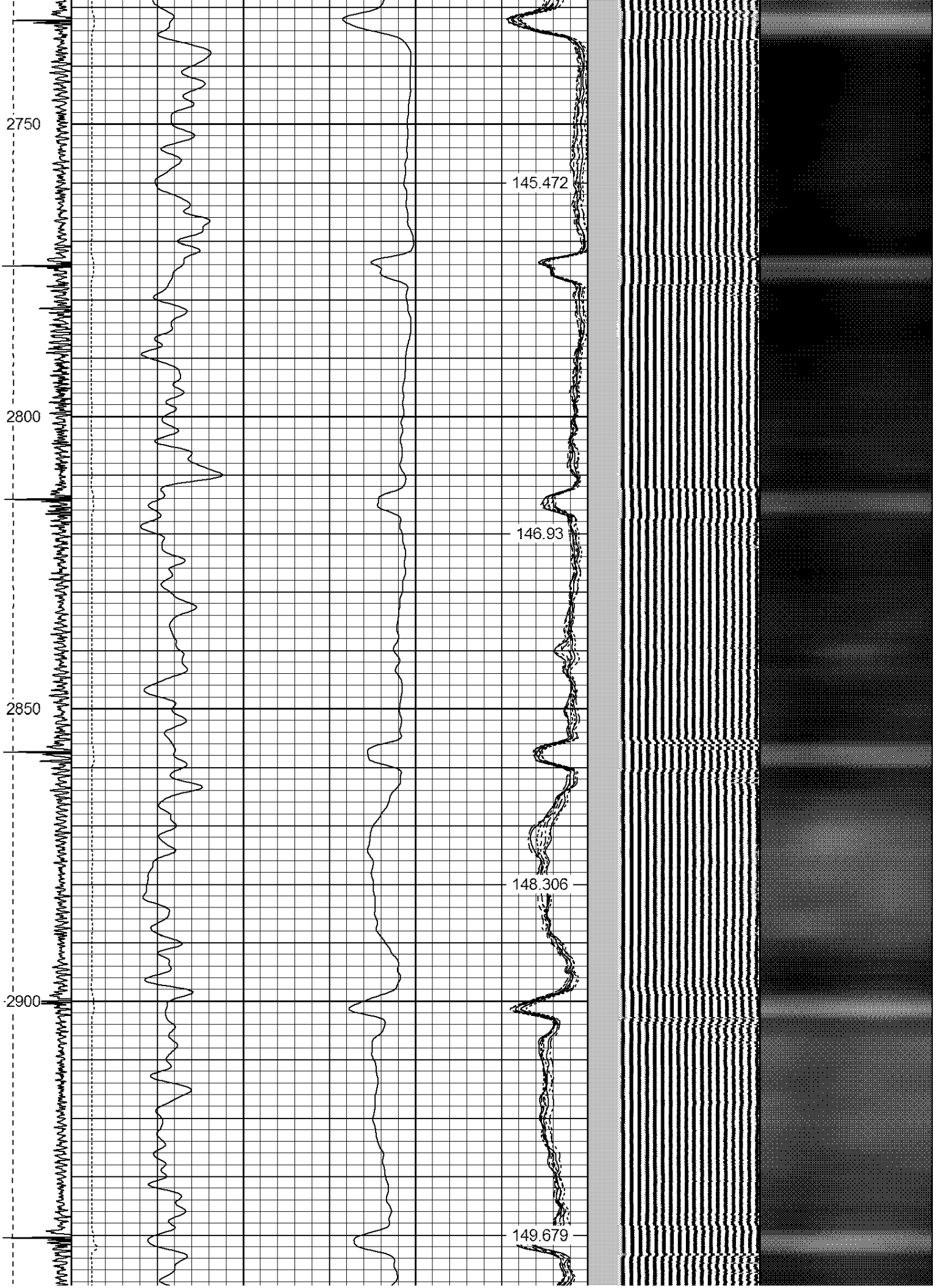


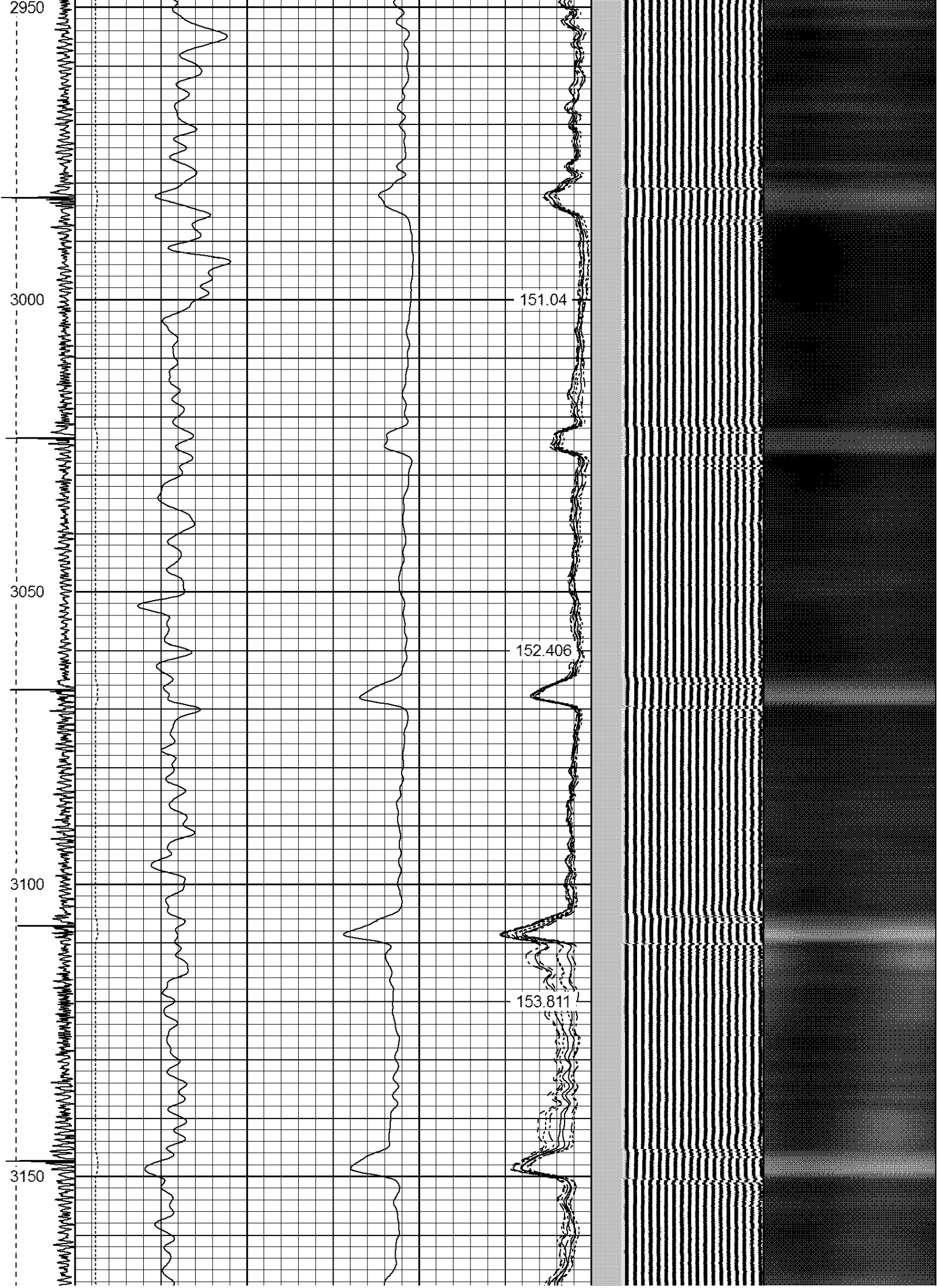






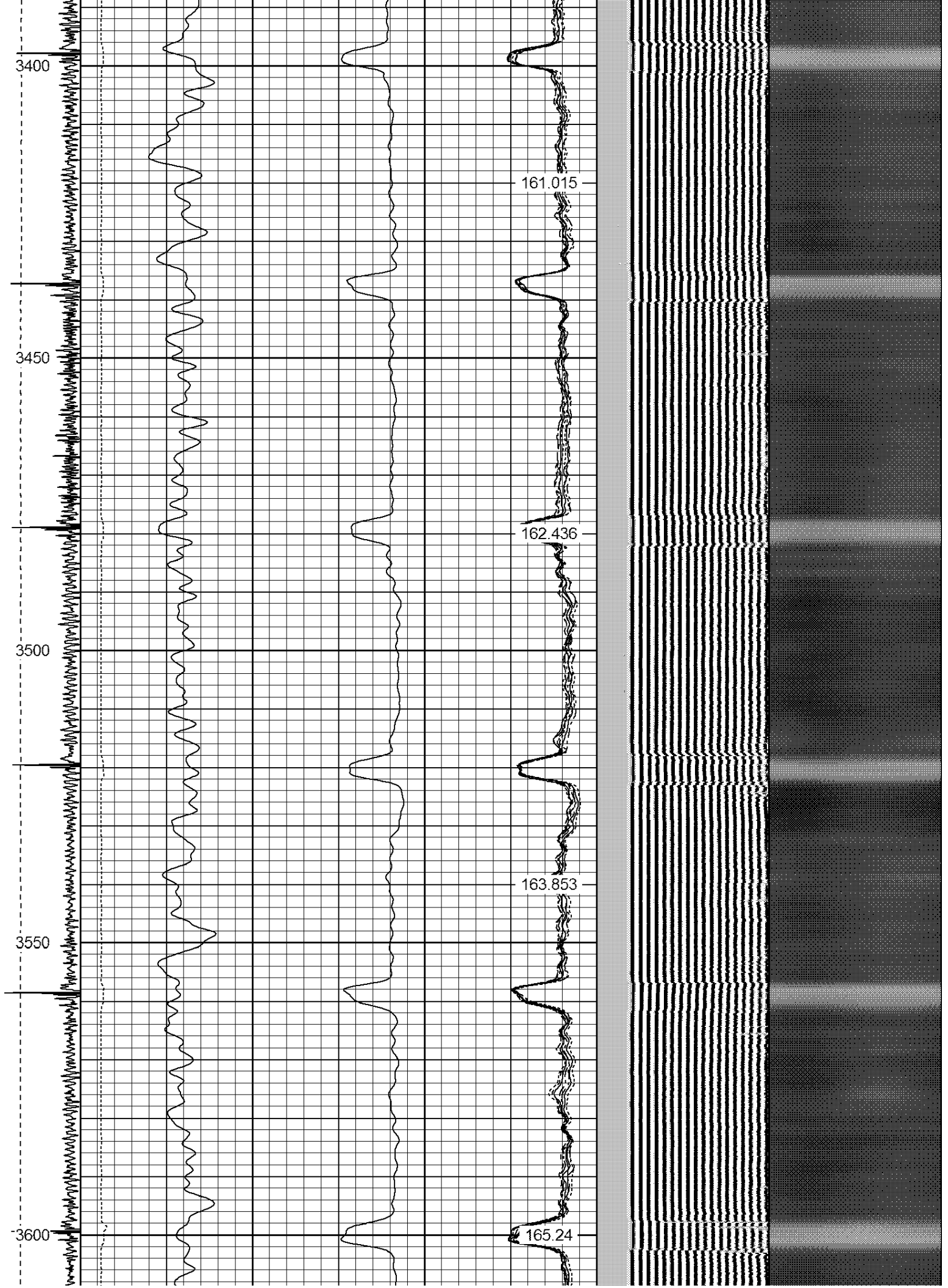






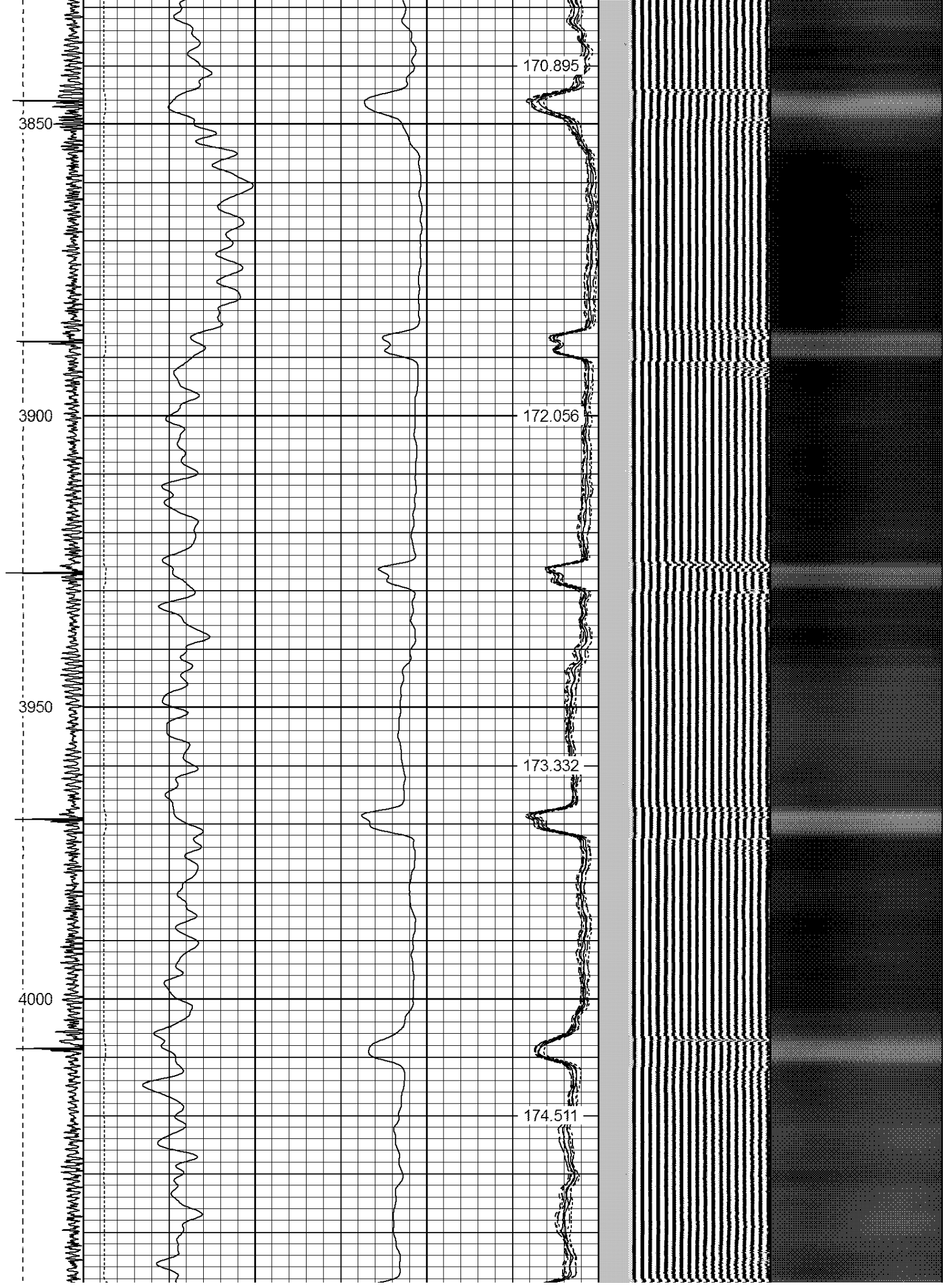


















4500

4550

4600

4650

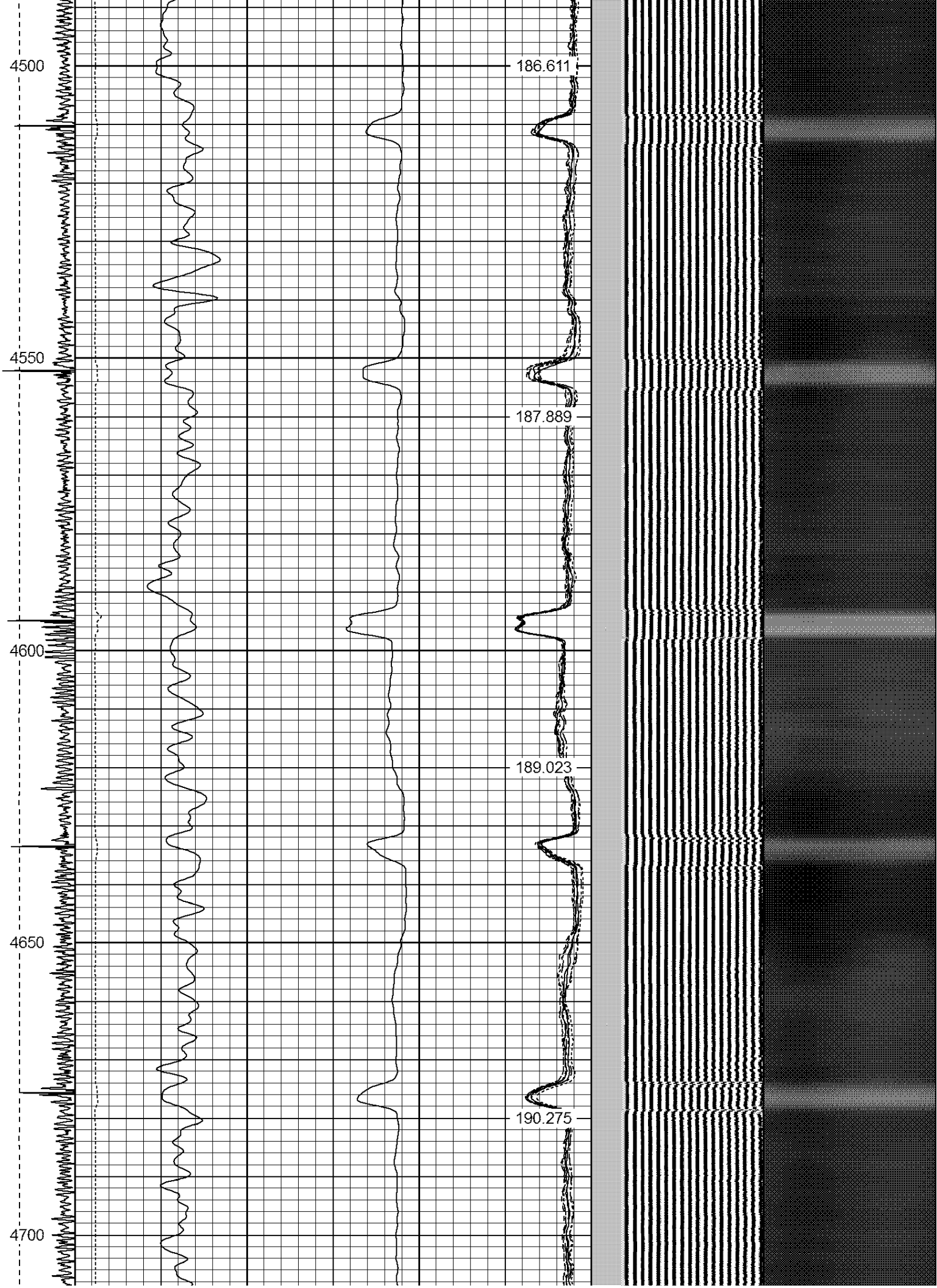
4700

186.611

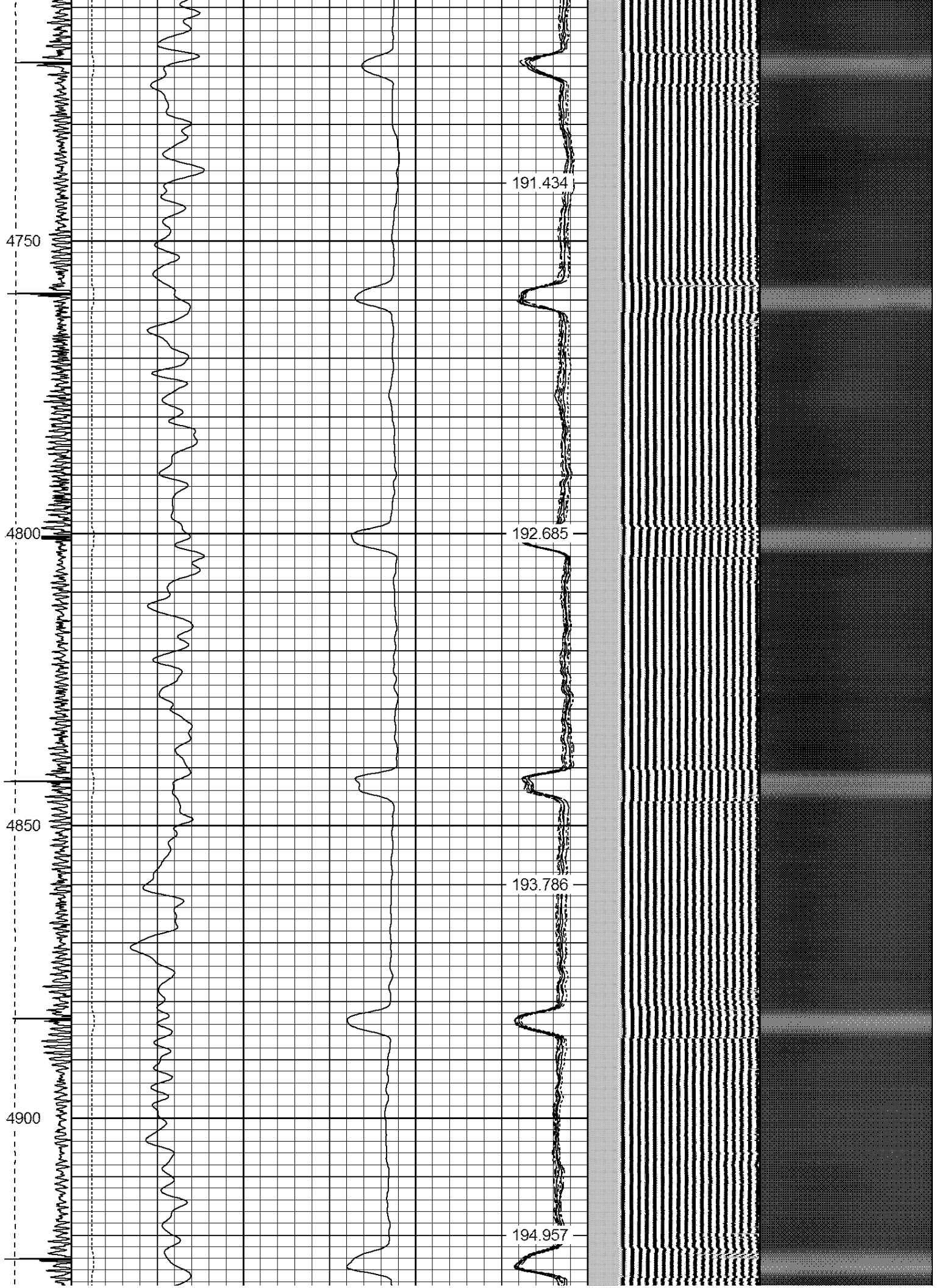
187.889

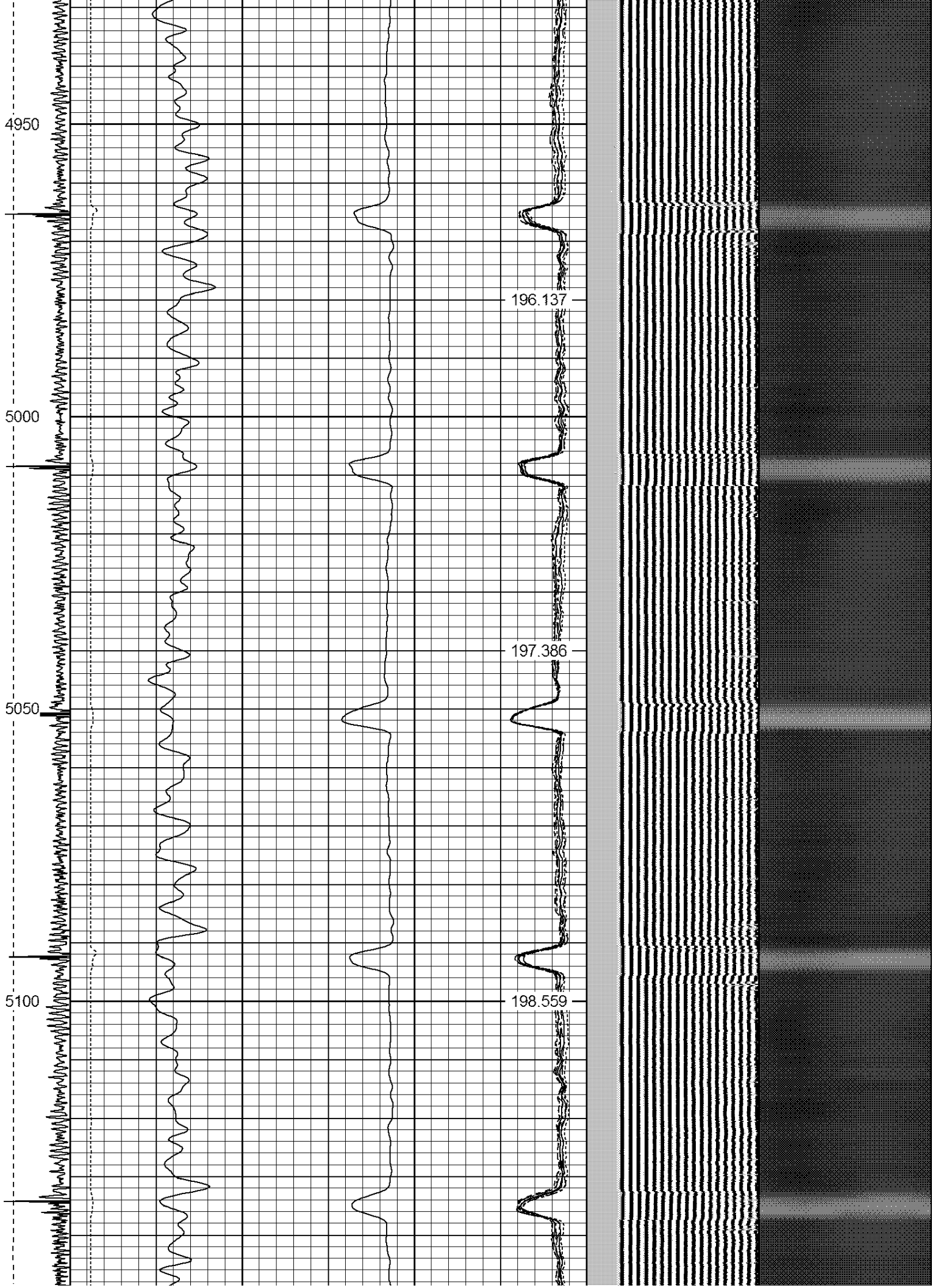
189.023

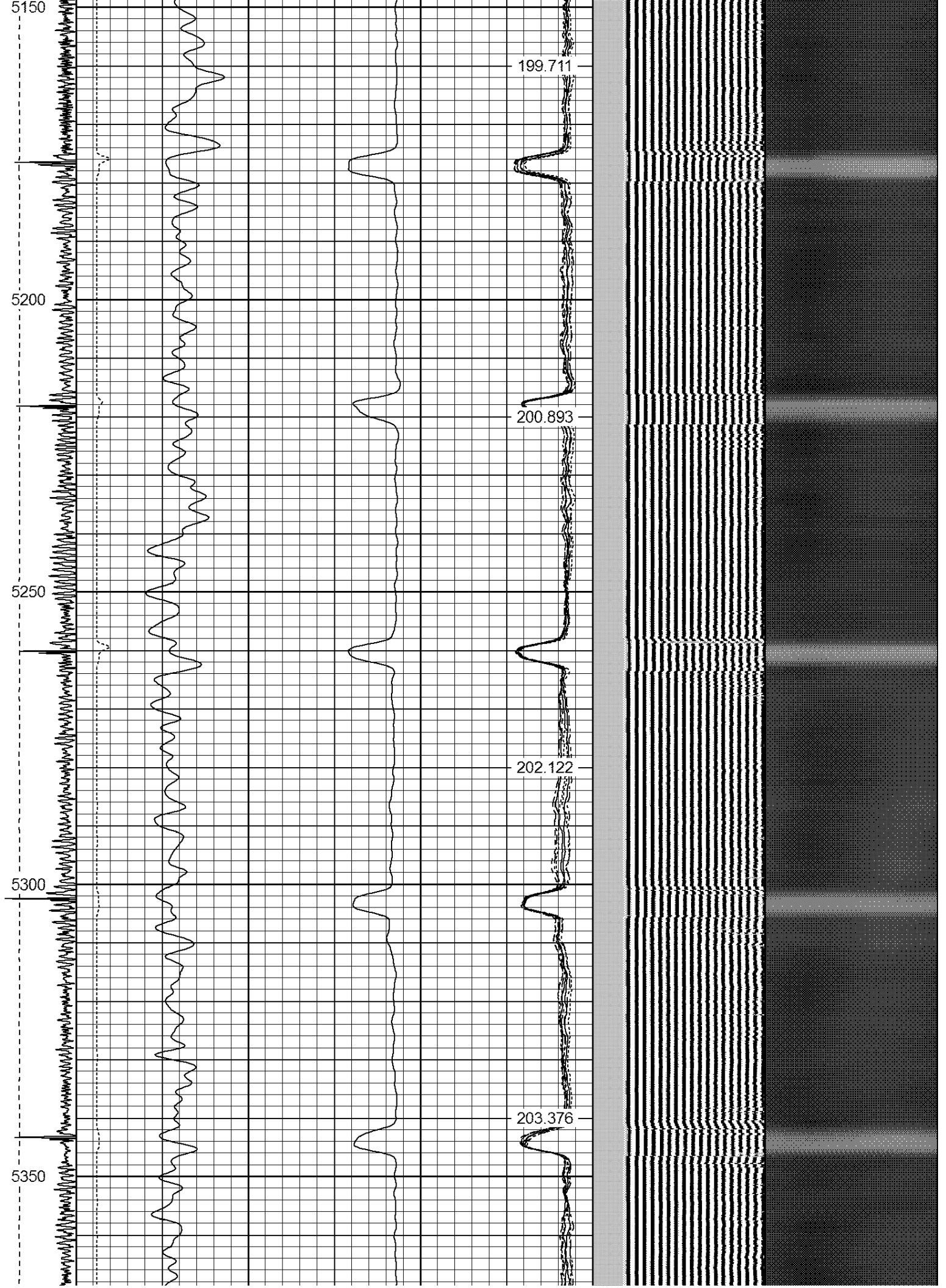
190.275

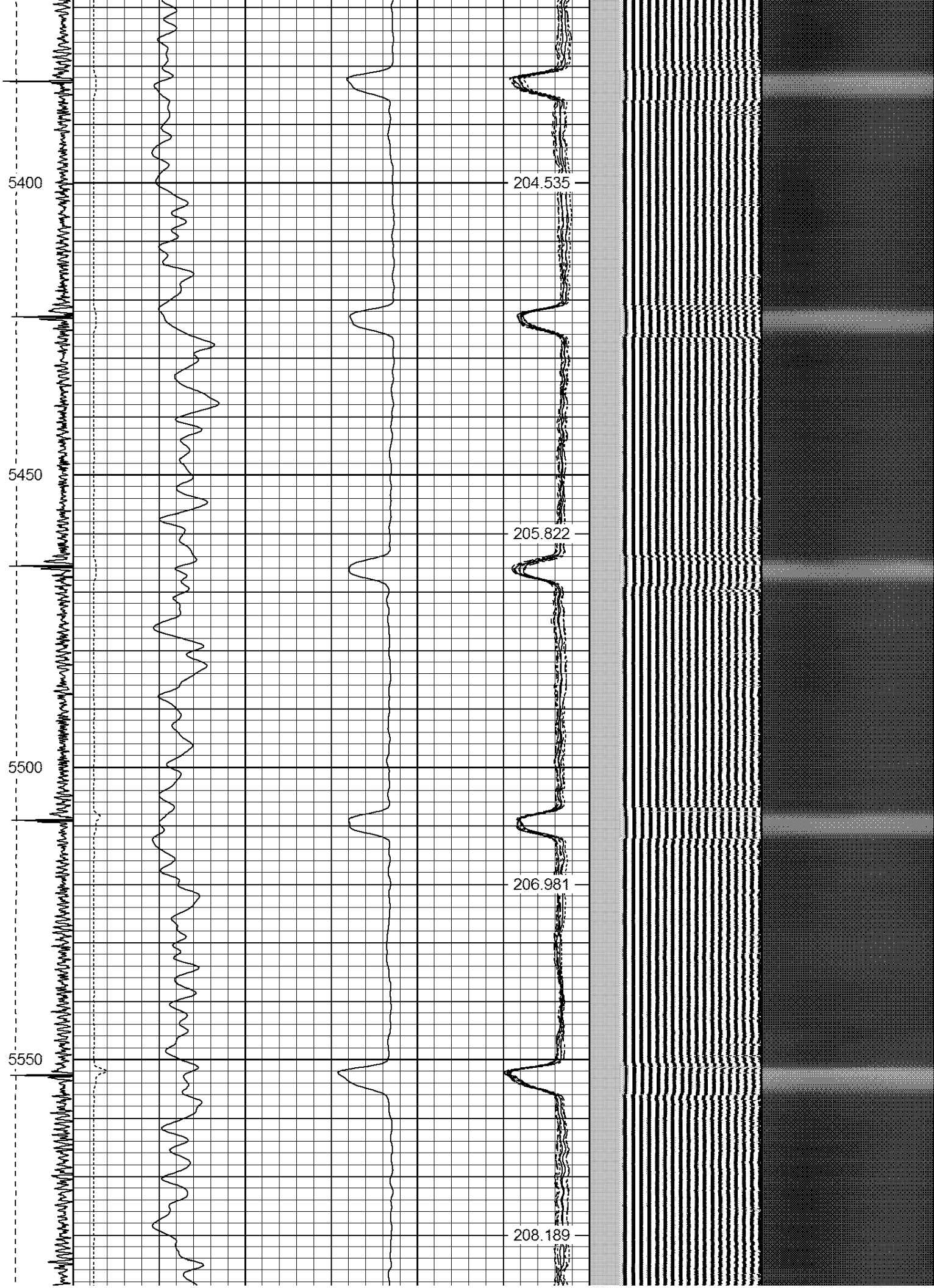




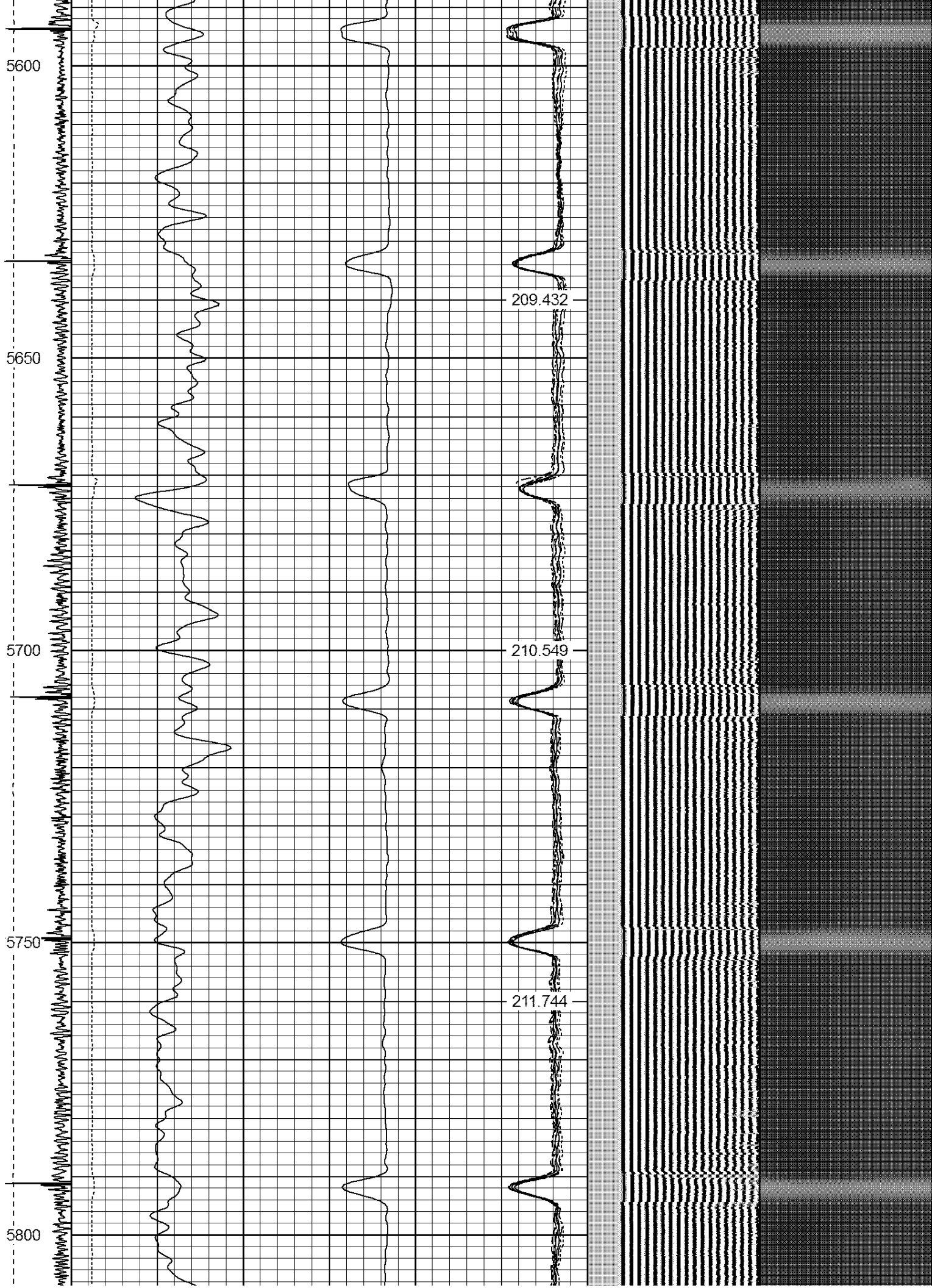


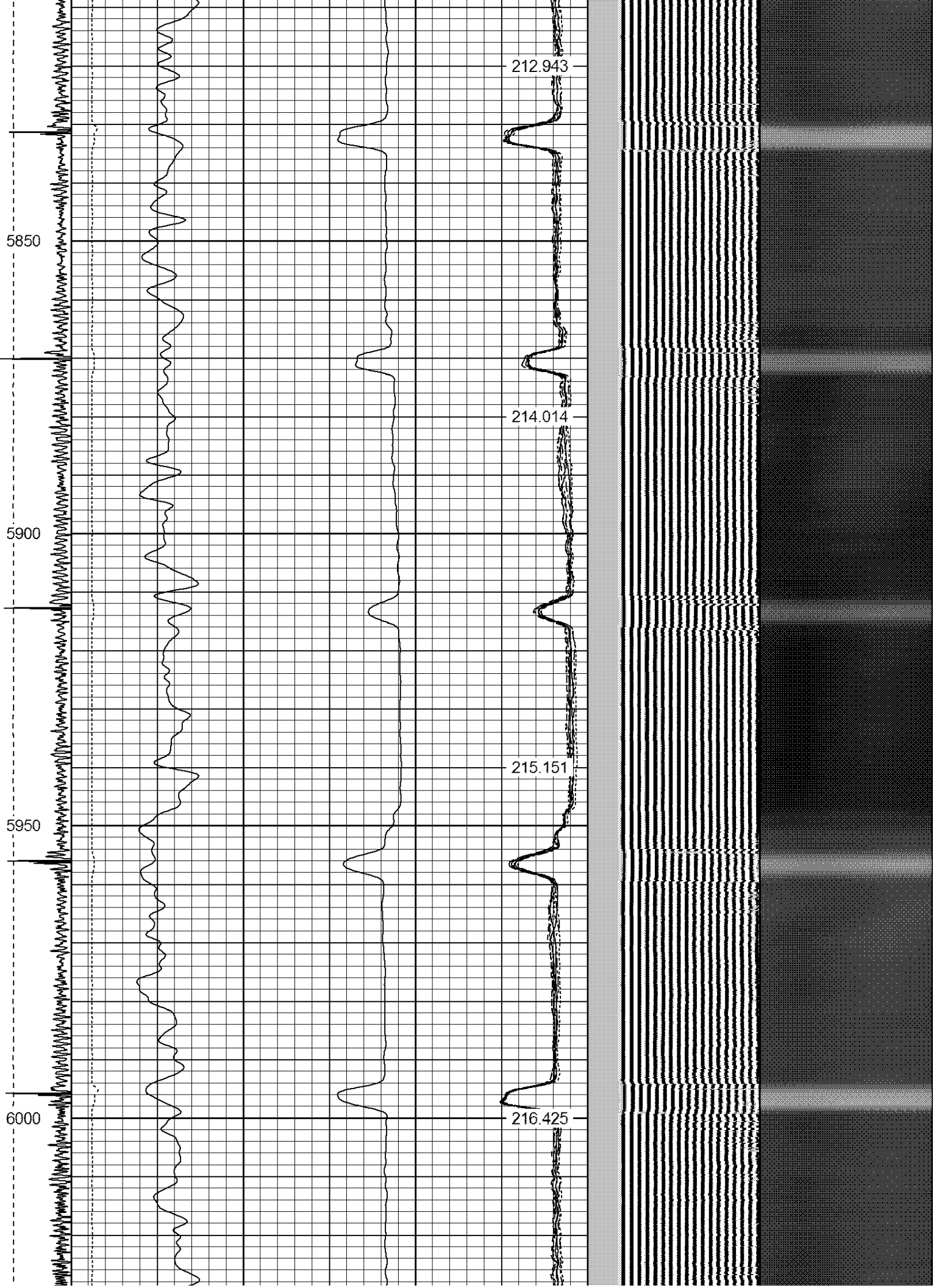




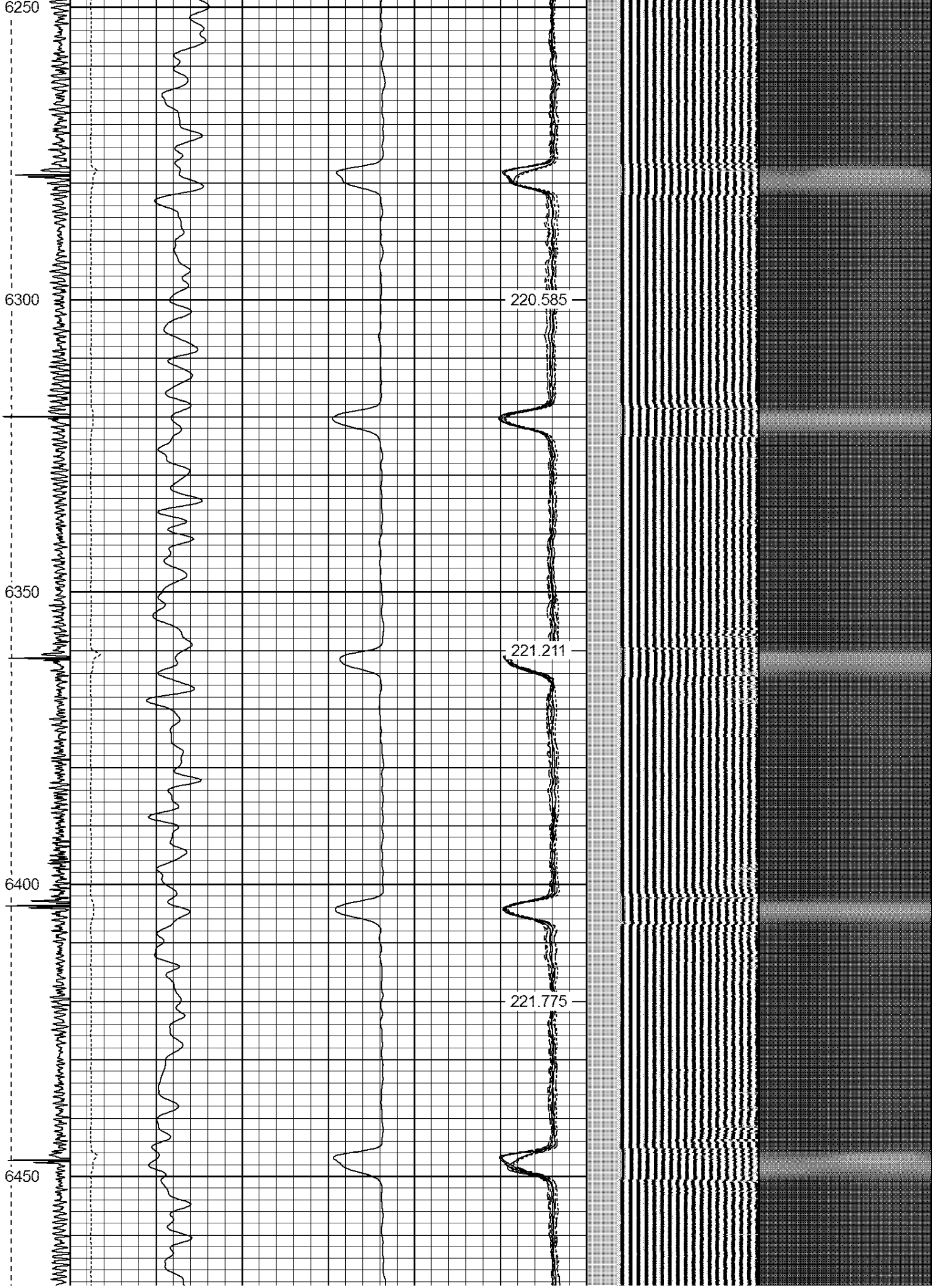




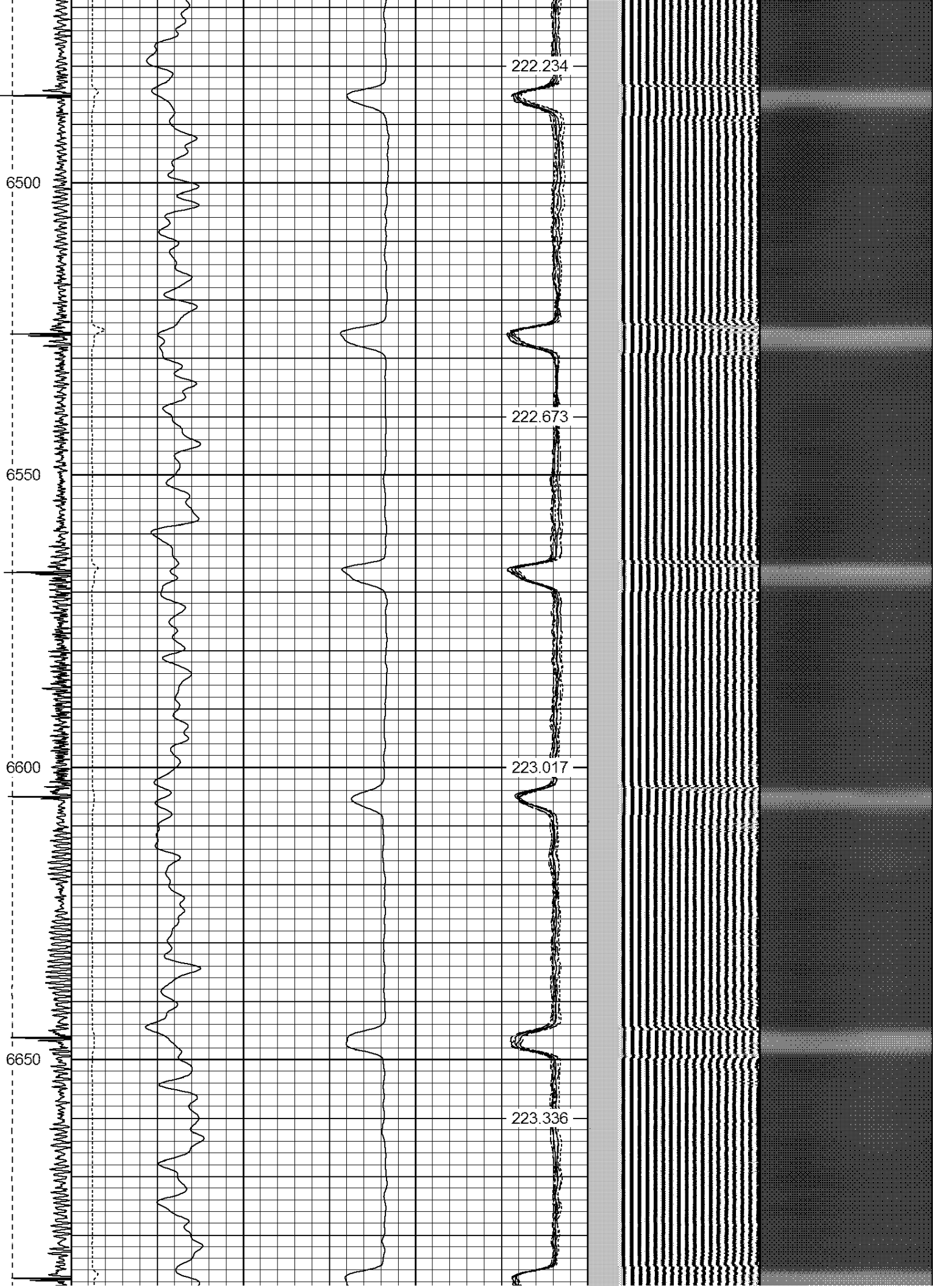


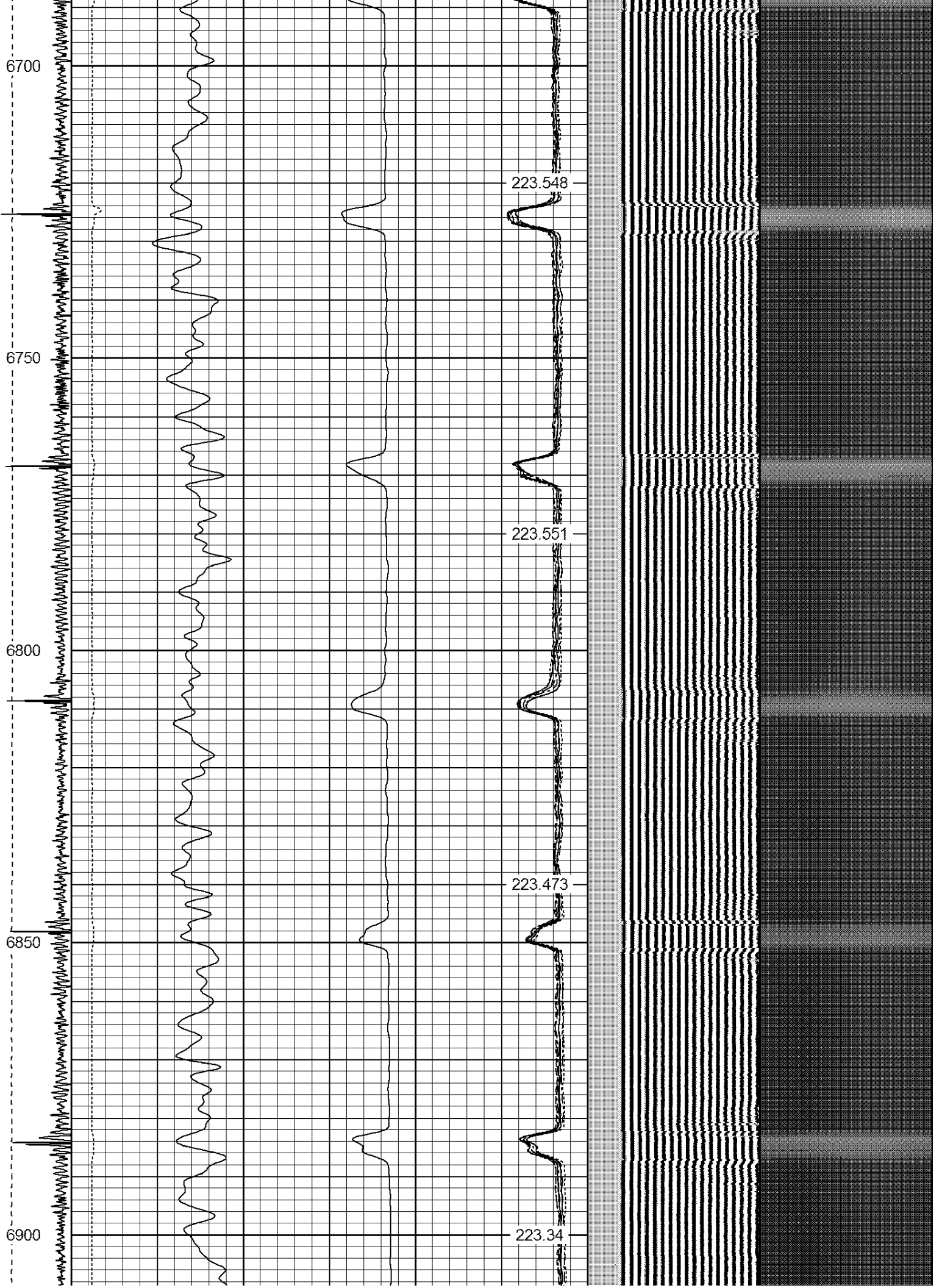


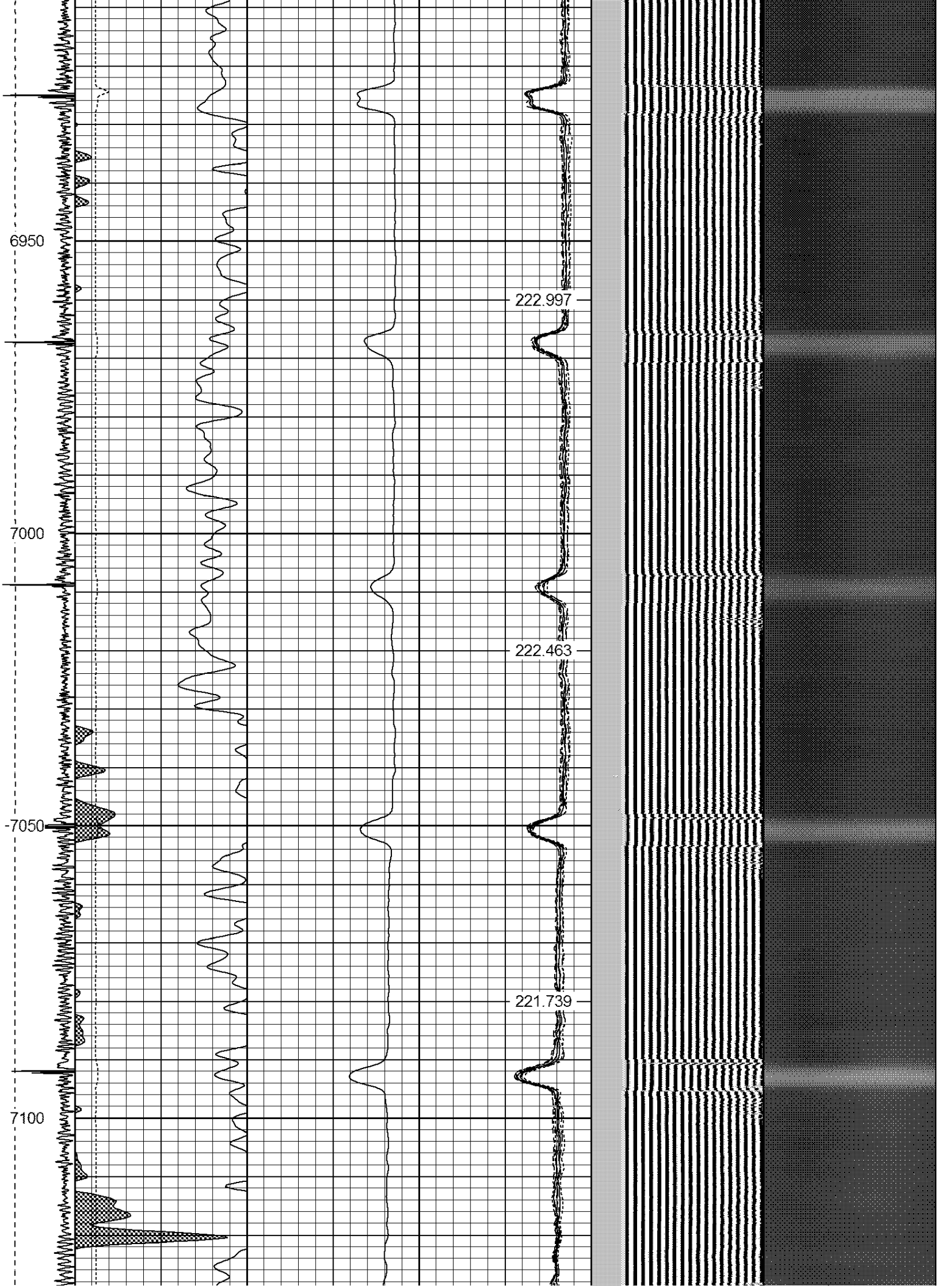


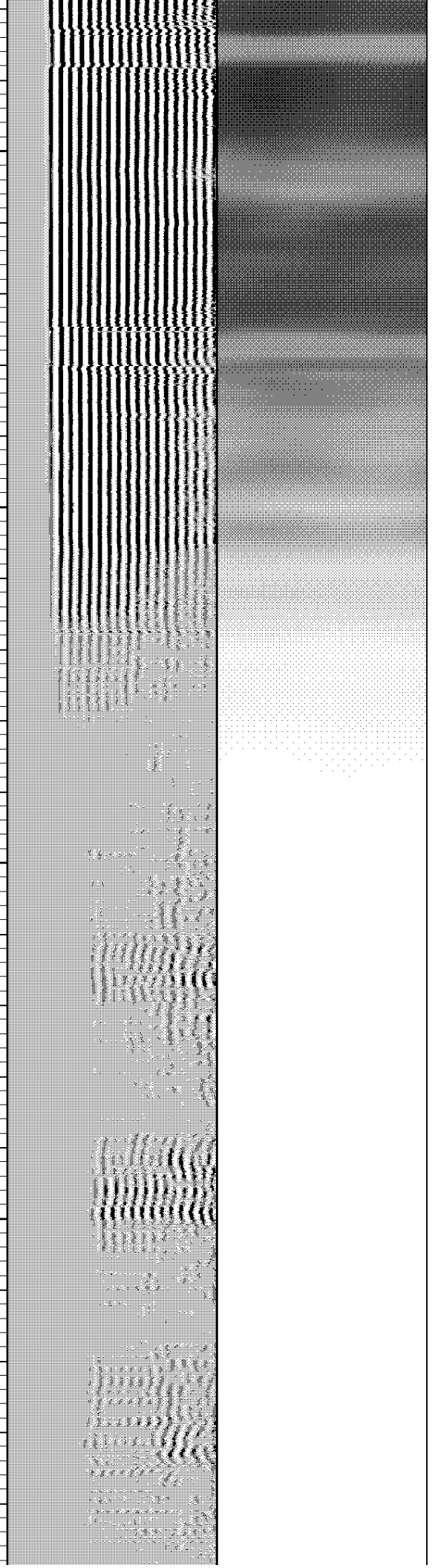
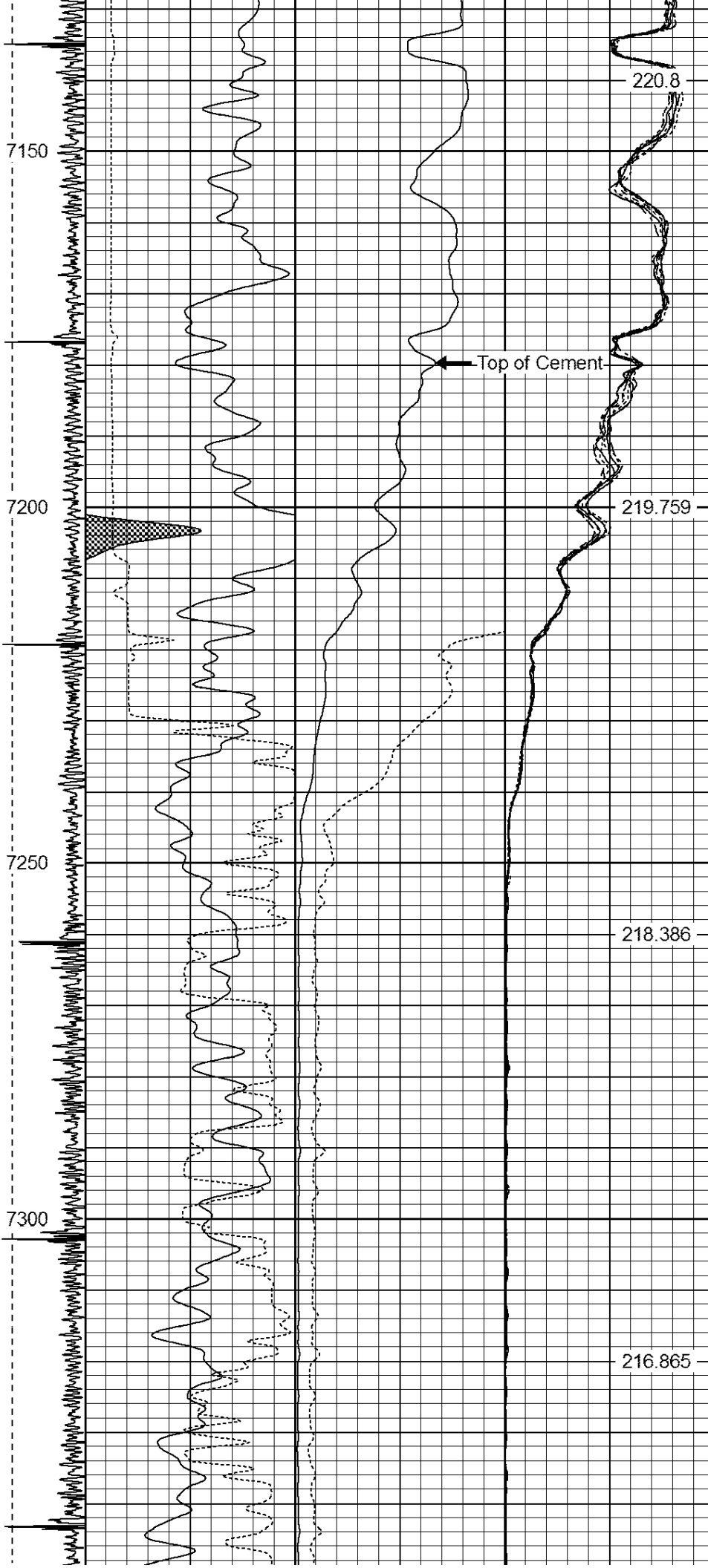






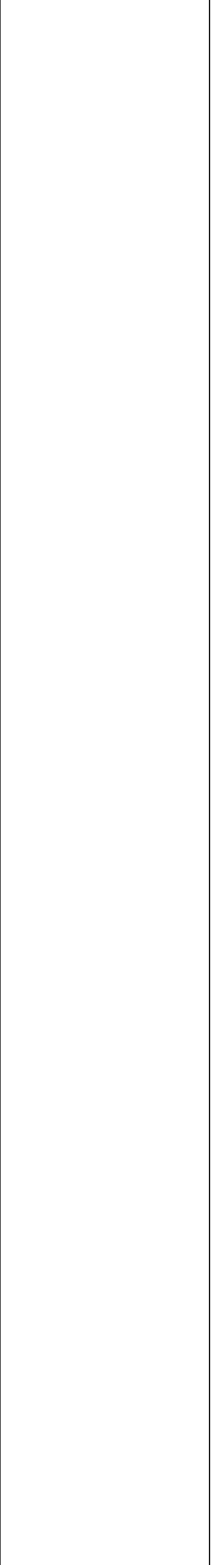
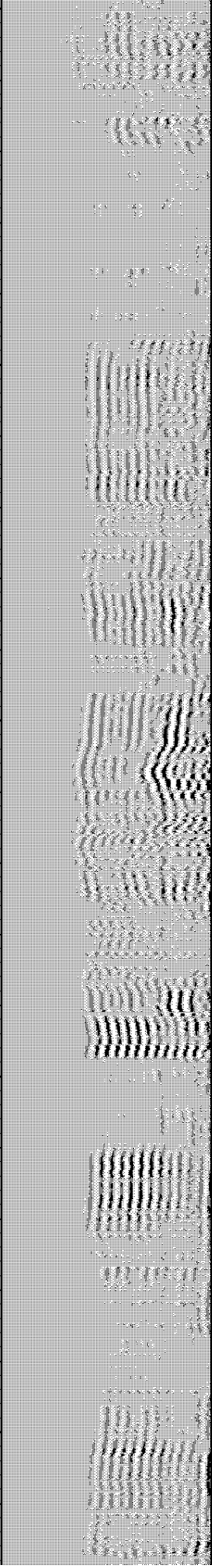
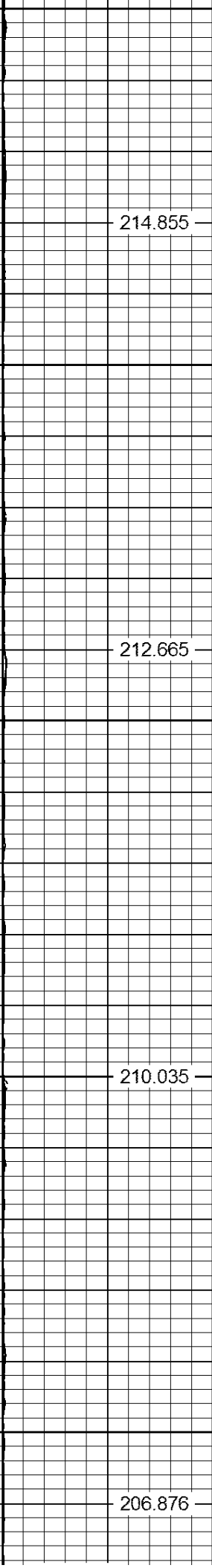
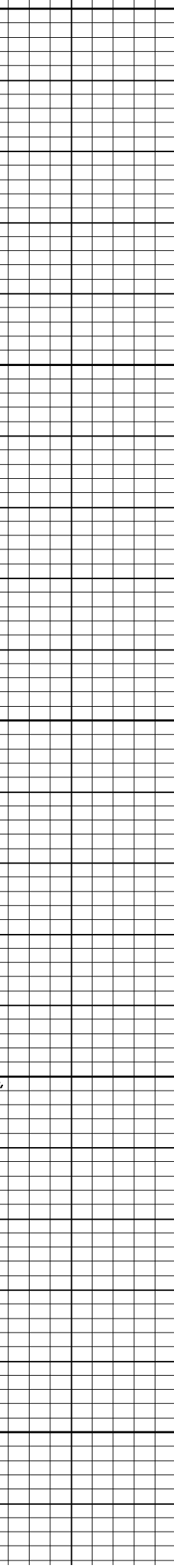
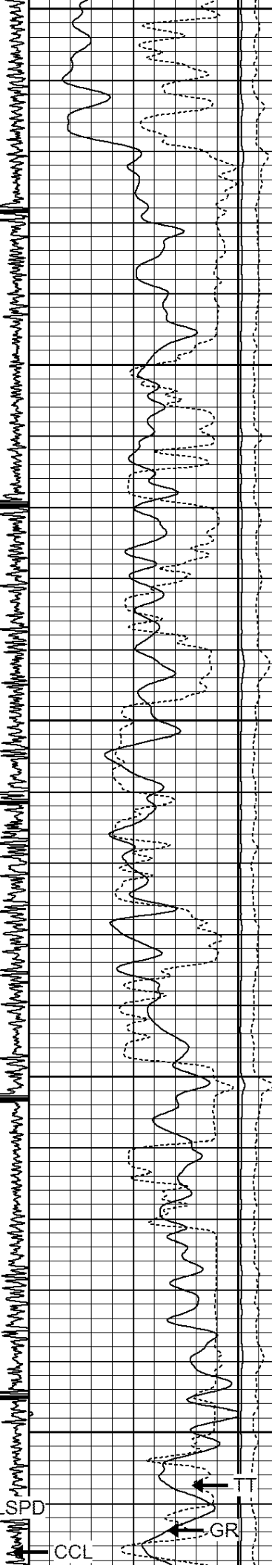








7350  
7400  
7450  
7500  
7550



214.855

212.665

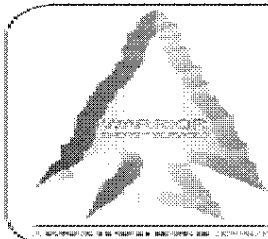
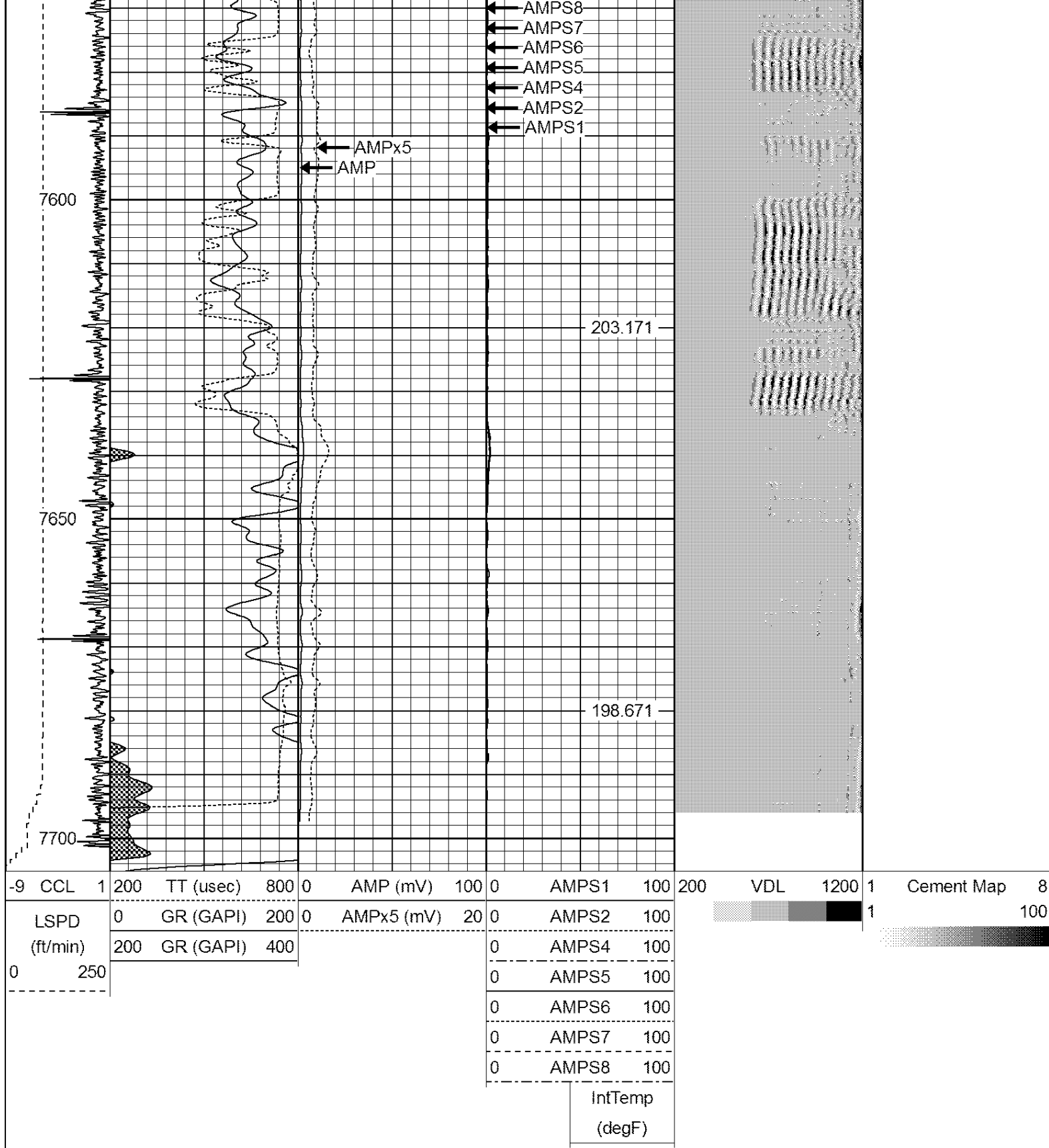
210.035

206.876

LSPD

CCL

GR



**WARRIOR**  
ENERGY SERVICES

Company Kerr McGee Oil and Gas  
Well Kuipers Pooling Unit #2  
Field WATTENBERG  
County WELD  
State CO