



RADIAL CEMENT BOND LOG  
GAMMA RAY  
CCL

Company		Kerr McGee Oil & Gas	
Well		SHARKEY 10-35	
Field		Wattenberg	
County		Weld	
State		CO	
Location:		APL # : 05-123-20419	
Well		SHARKEY 10-35	
Field		Wattenberg	
County		Weld	
State		CO	
Permanent Datum		GL	
Log Measured From		KB: 13'	
Drilling Measured From		KB	
LAT : 40.26700 LONG:-104.85560		NW/SE	
SEC 35 TWP 4N RGE 67W		Elevation 4743'	
Other Services		K.B. 4756'	
		D.F. 4755'	
		G.L. 4743'	
Date		9-08-2015	
Run Number		ONE	
Depth Driller		7350'	
Depth Logger		6217'	
Bottom Logged Interval		6208'	
Top Log Interval		SURFACE	
Open Hole Size		7 7/8	
Type Fluid		WATER	
Density / Viscosity		1.0	
Max. Recorded Temp.		196 DEG F	
Estimated Cement Top		221'	
Time Well Ready		NA	
Time Logger on Bottom		NA	
Equipment Number		7770	
Location		GREELEY	
Recorded By		N.POLLOCK	
Witnessed By		B. SMITH	
Borehole Record		Tubing Record	
Run Number		Bit	
From		To	
Size		Weight	
From		To	
Casing Record		Size	
Surface String		Wgt/Ft	
Prot. String		24#	
Production String		SURFACE	
Liner		Top	
		Bottom	
		737'	
		7334	

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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.

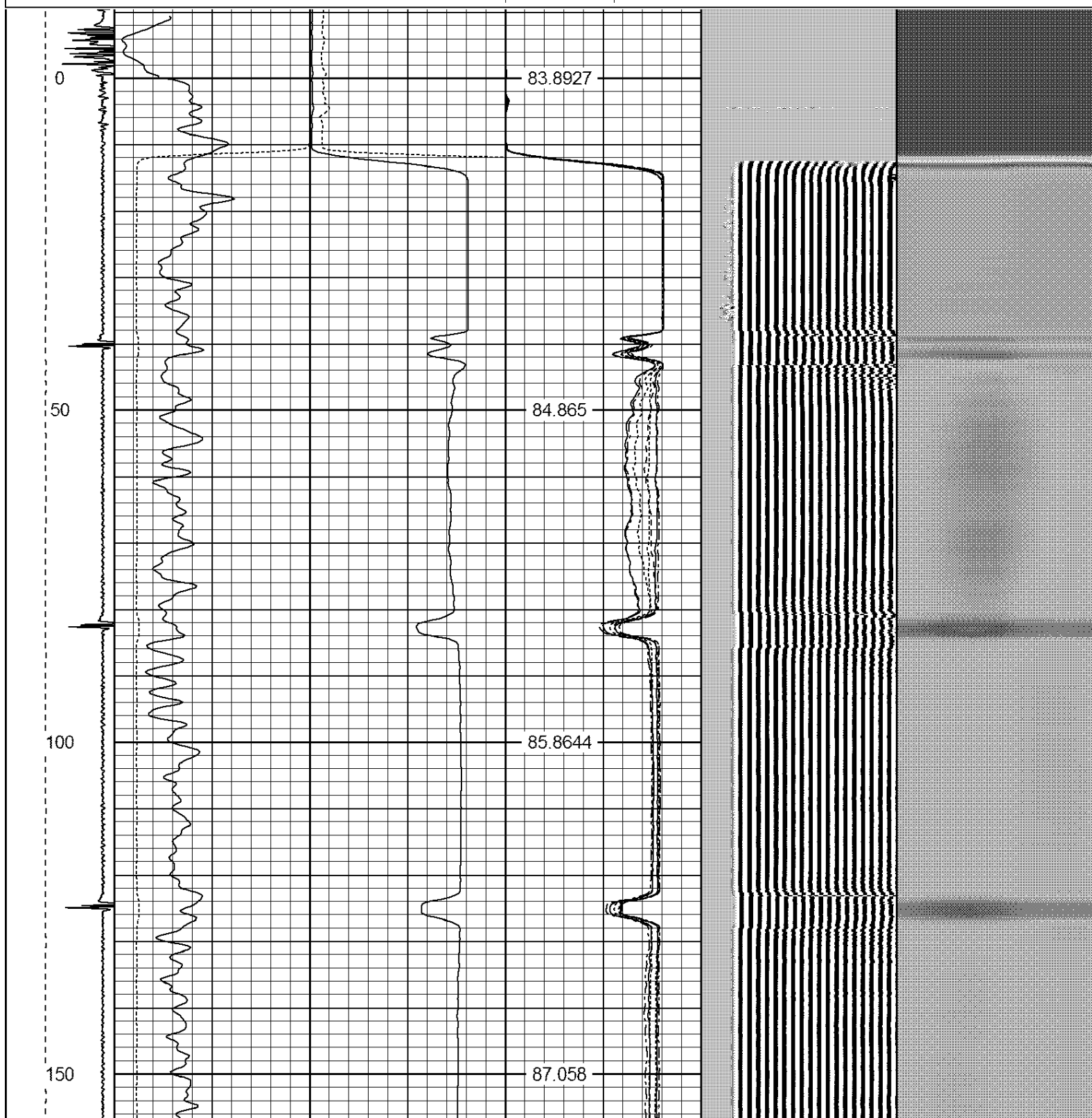
Comments

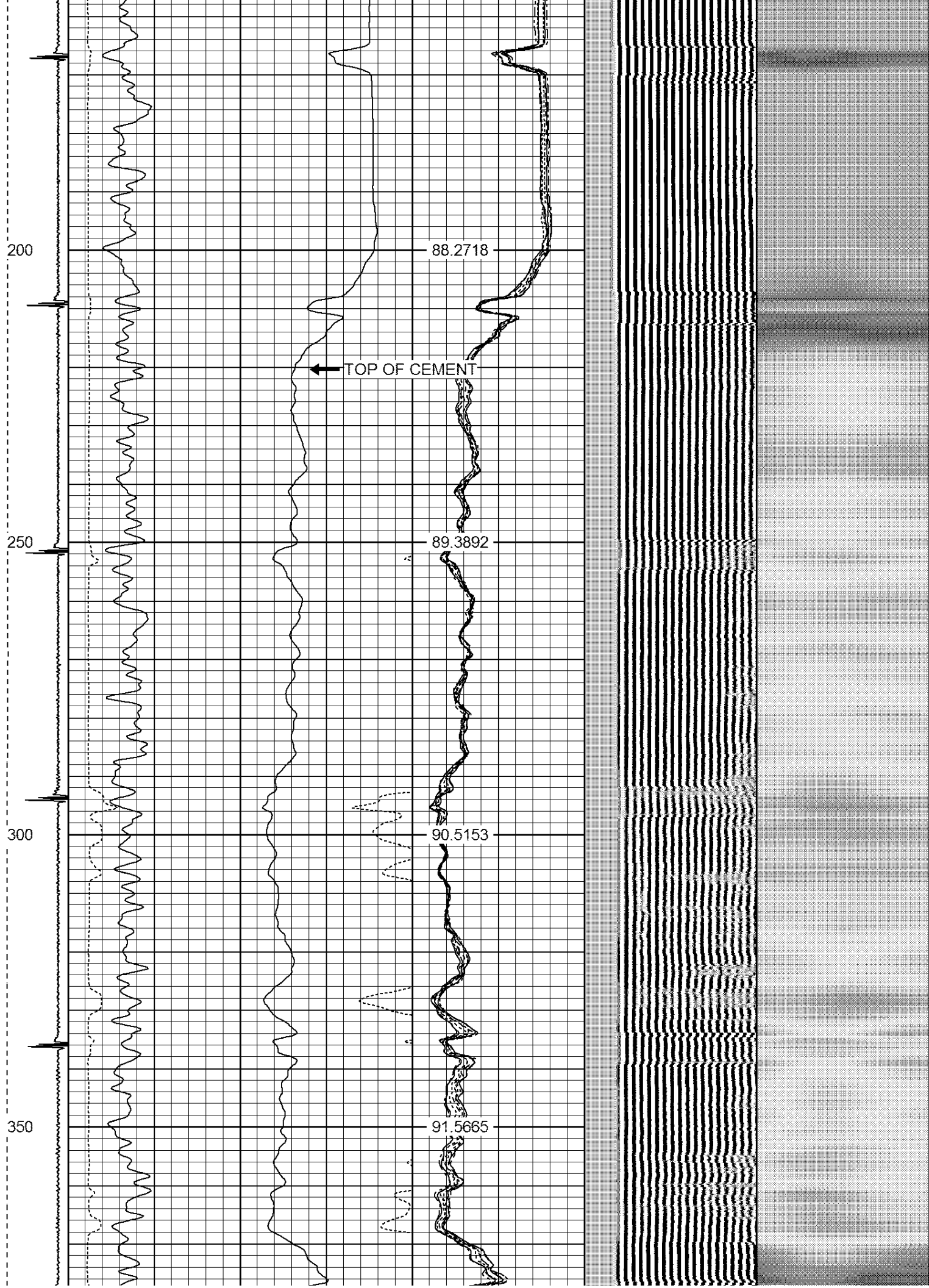
NOT CORROLATED  
RAN CBL TO VERIFY CEMENT.  
FREE PIPE CALIBRATION 4961' (81 mV)  
  
THANK YOU FOR USING WARRIOR ENERGY!

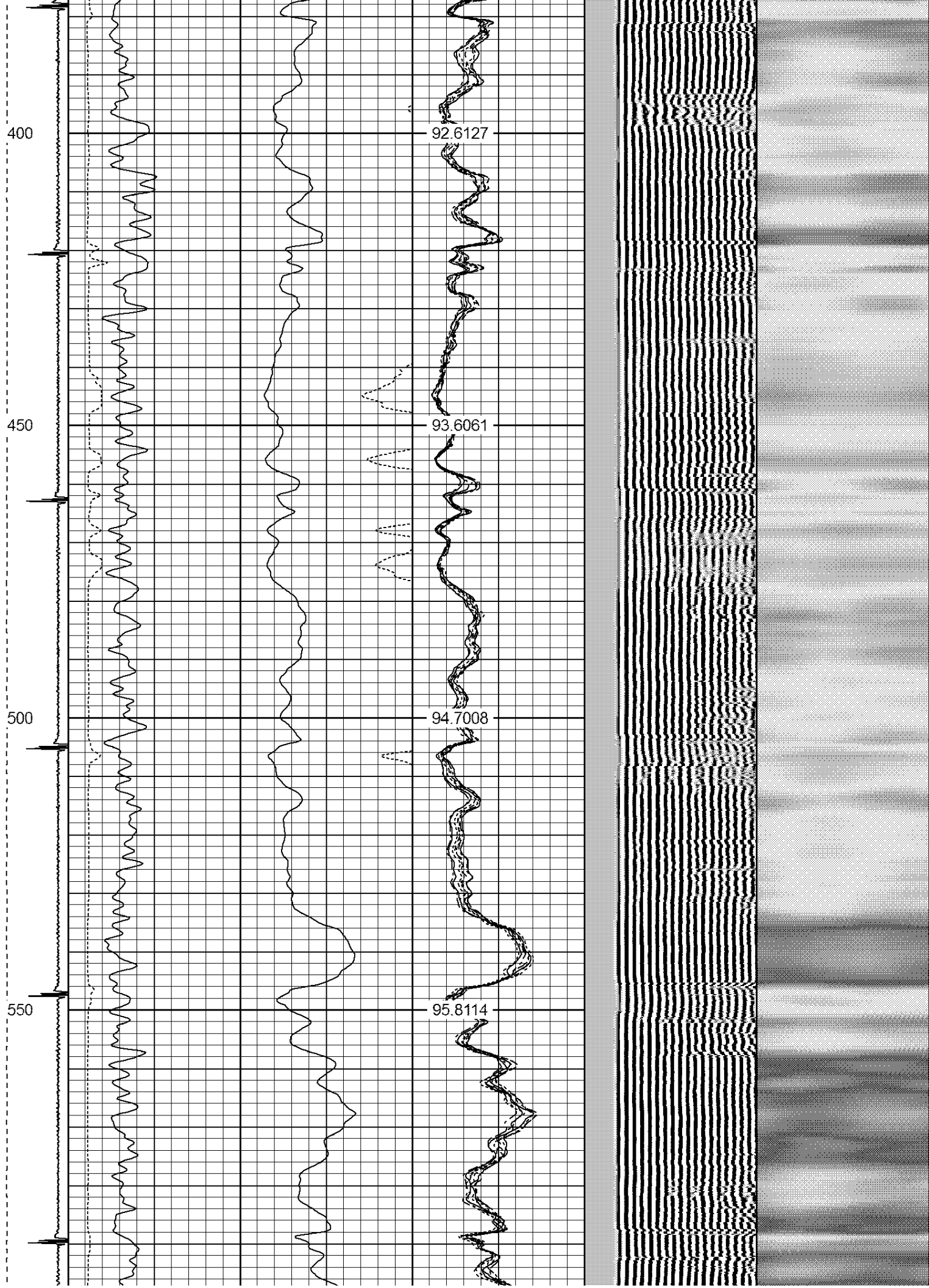
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)

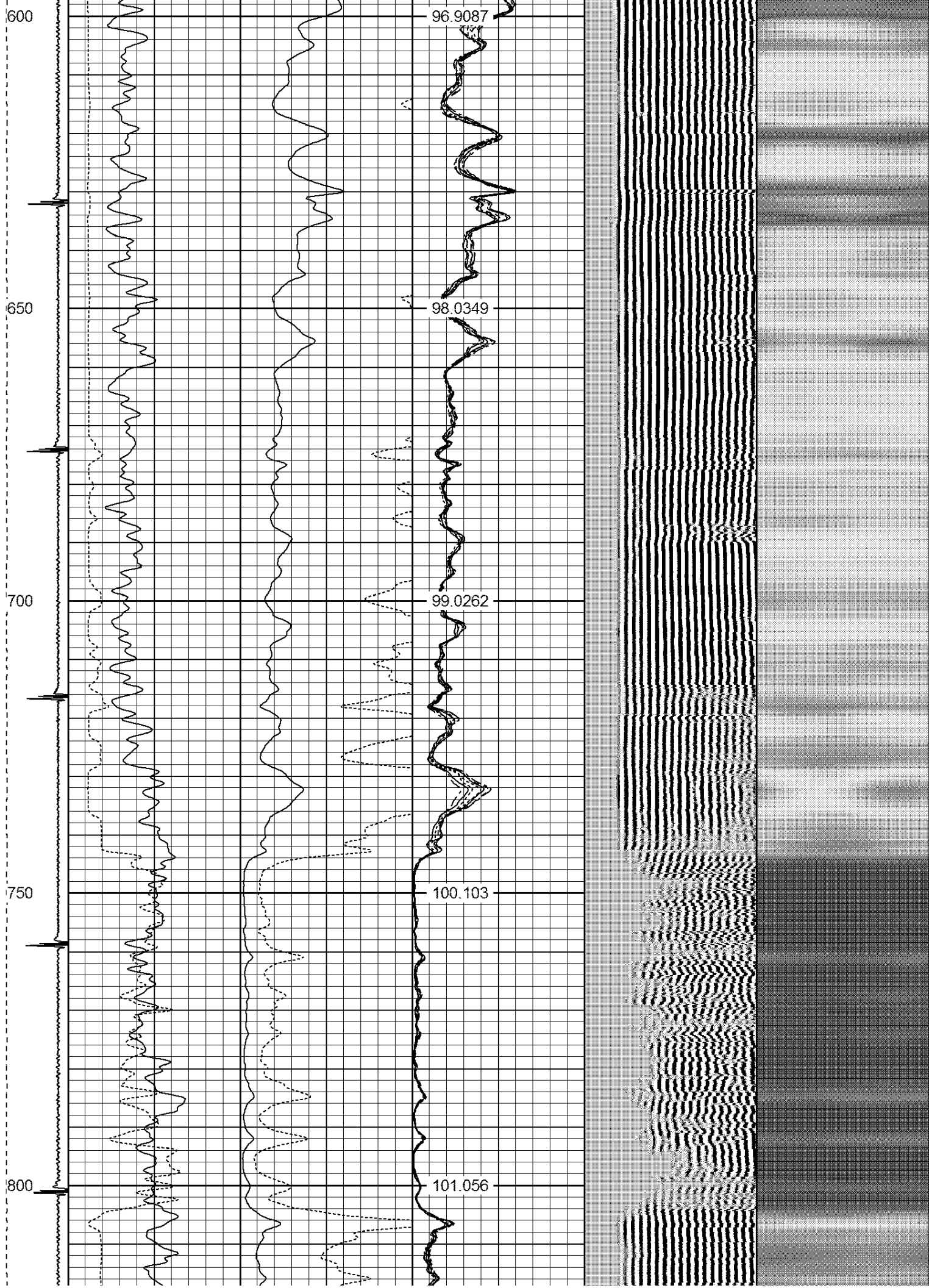
[illegible]

-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)								

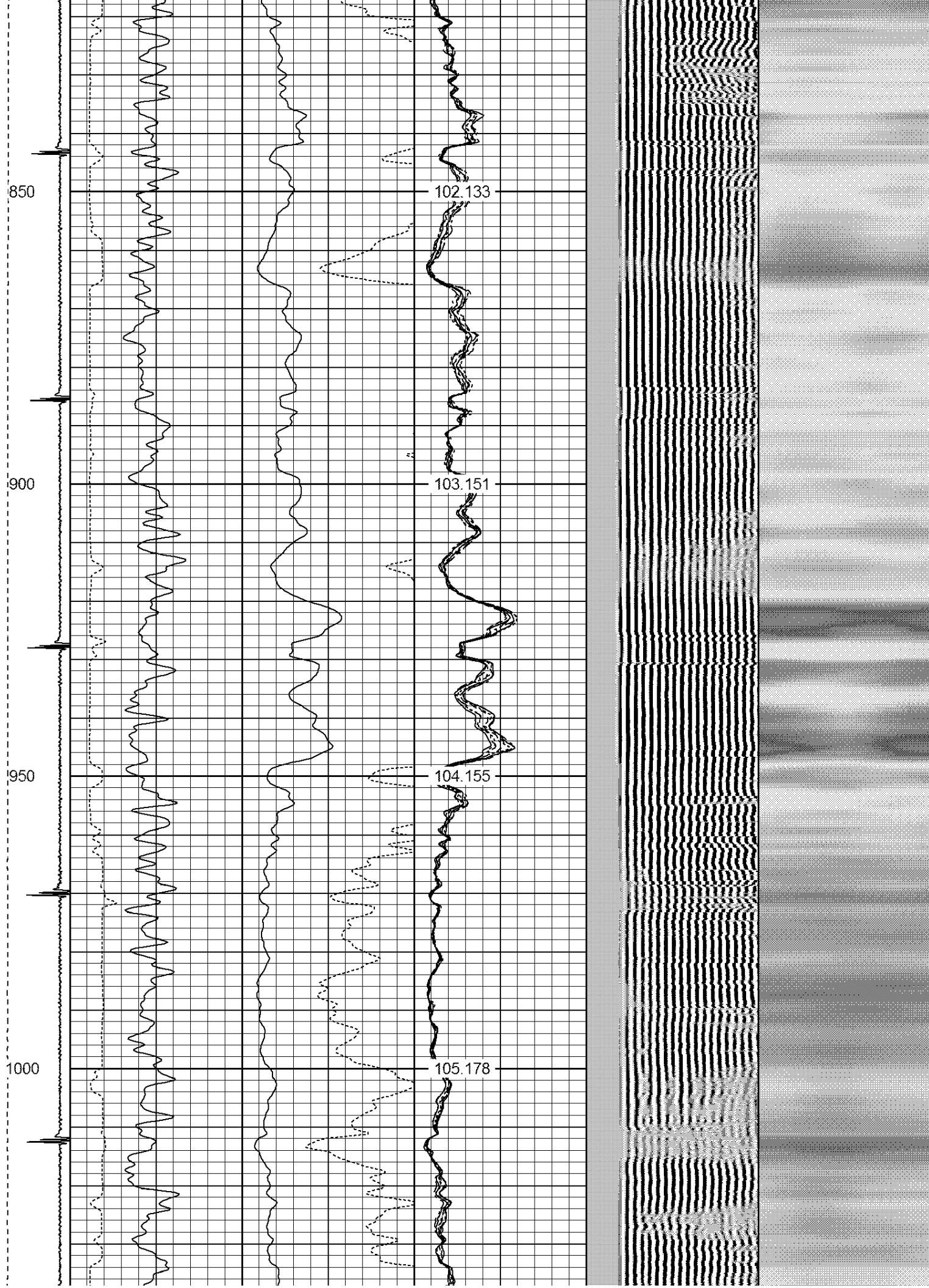


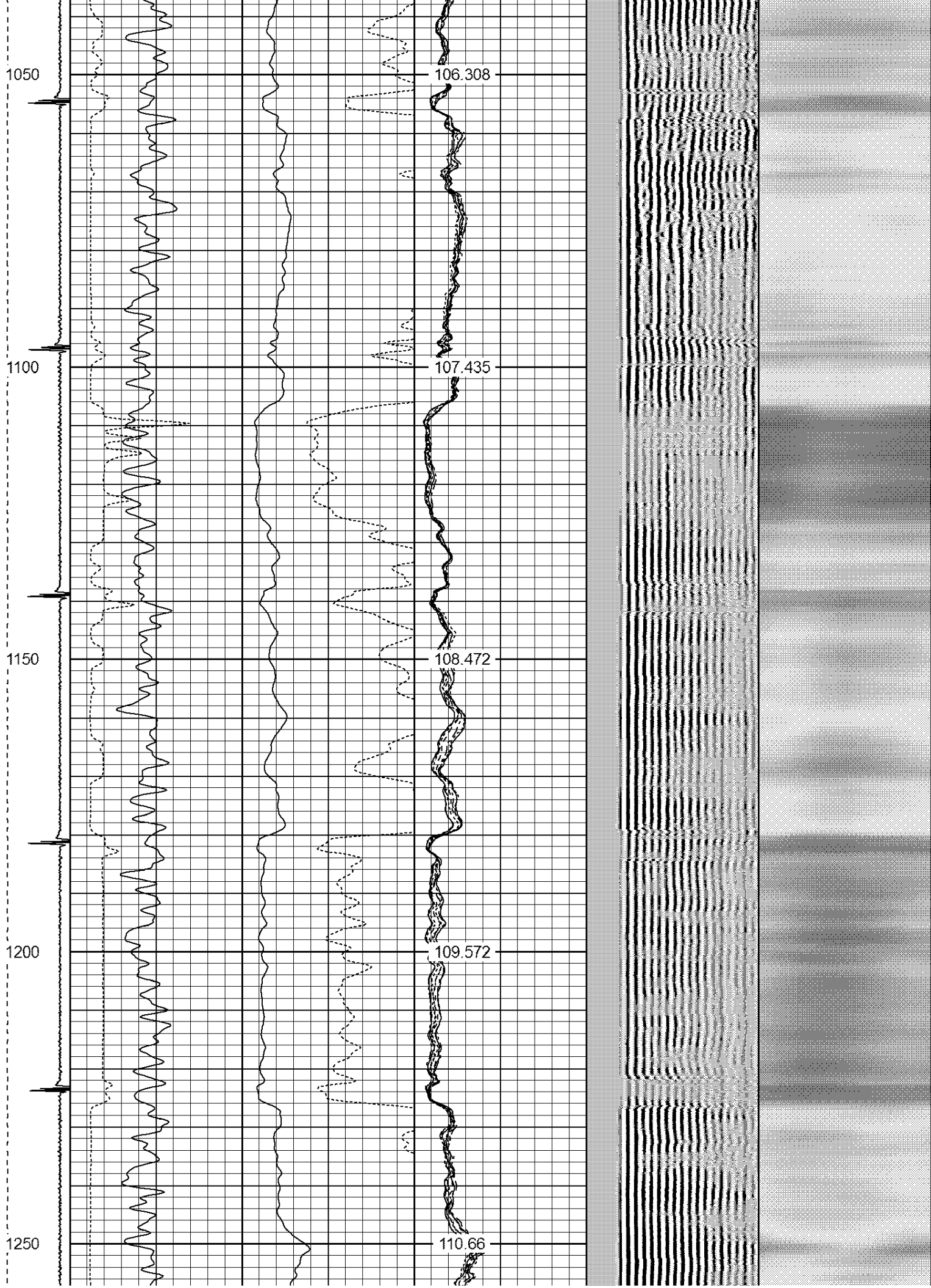




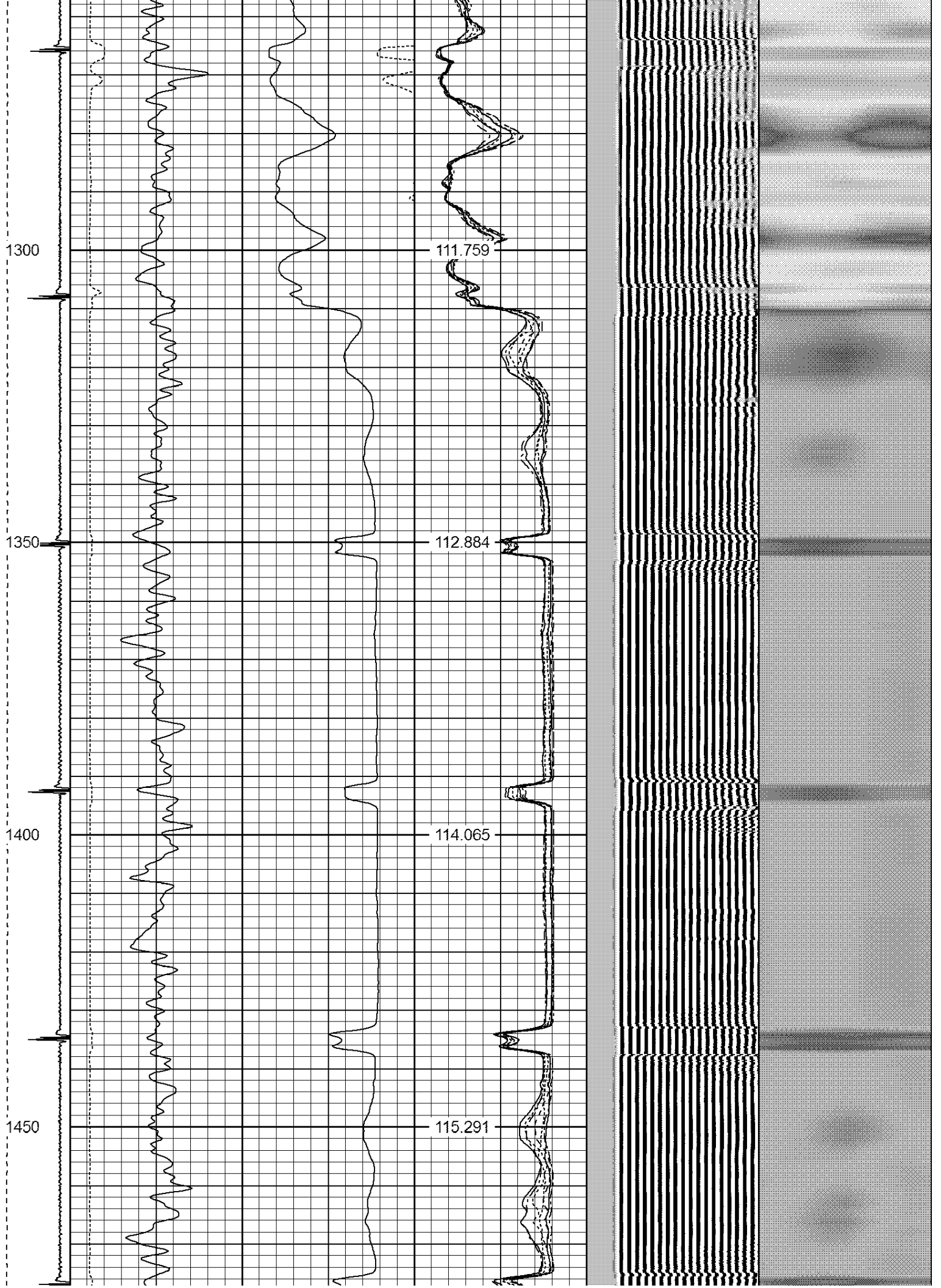












1500

116.481

1550

117.716

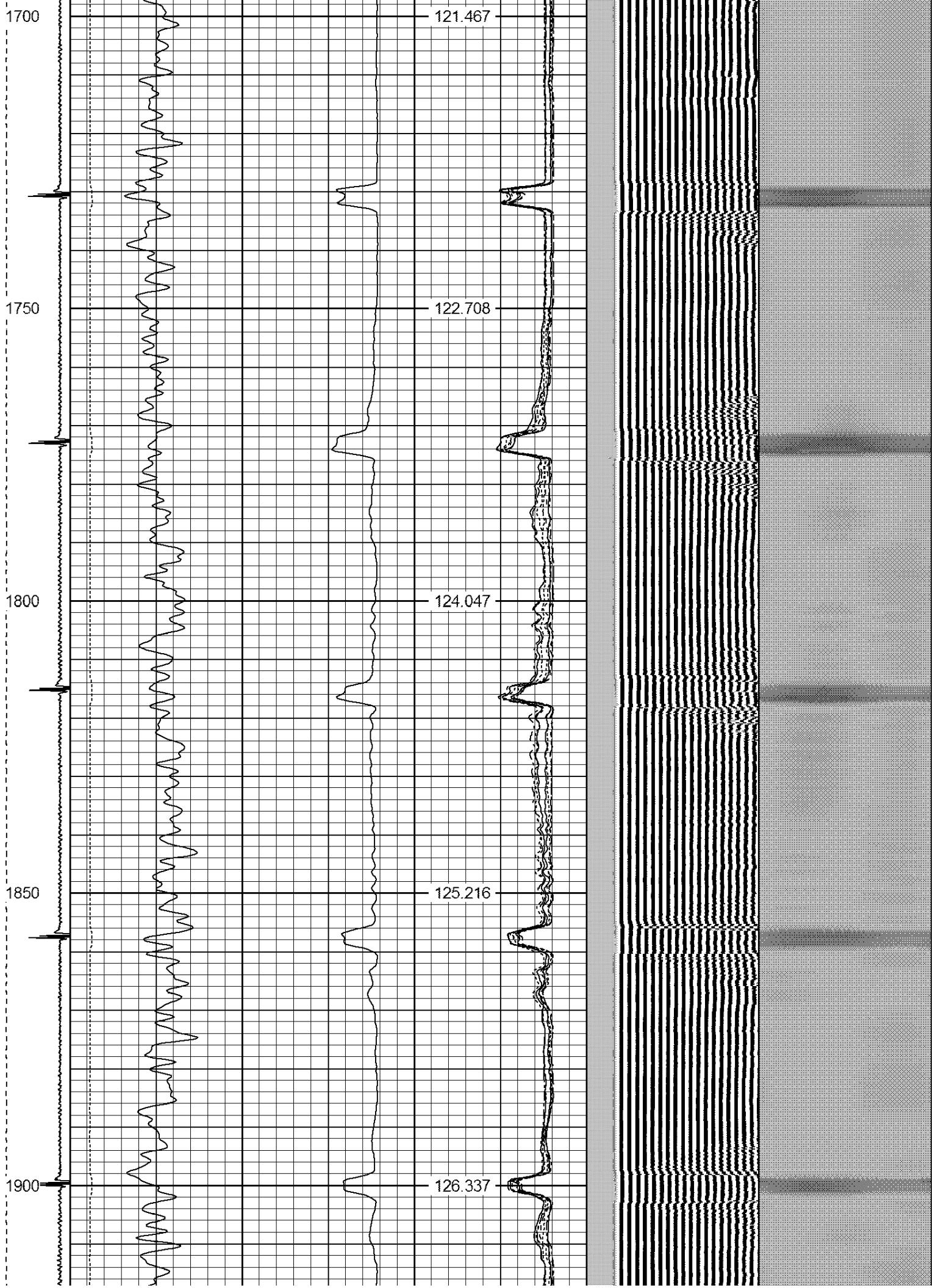
1600

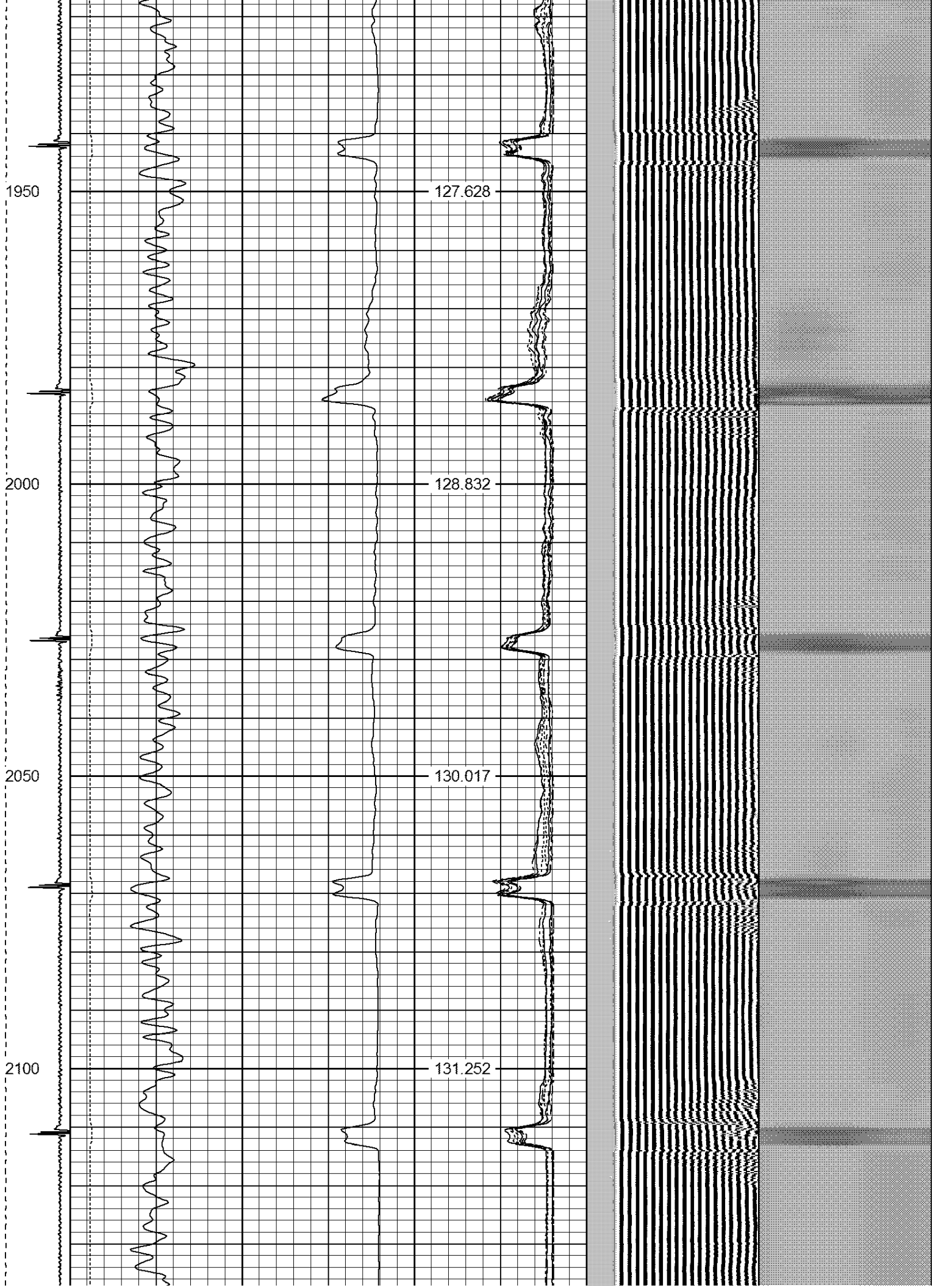
118.922

1650

120.248









2150

132.394

2200

133.589

2250

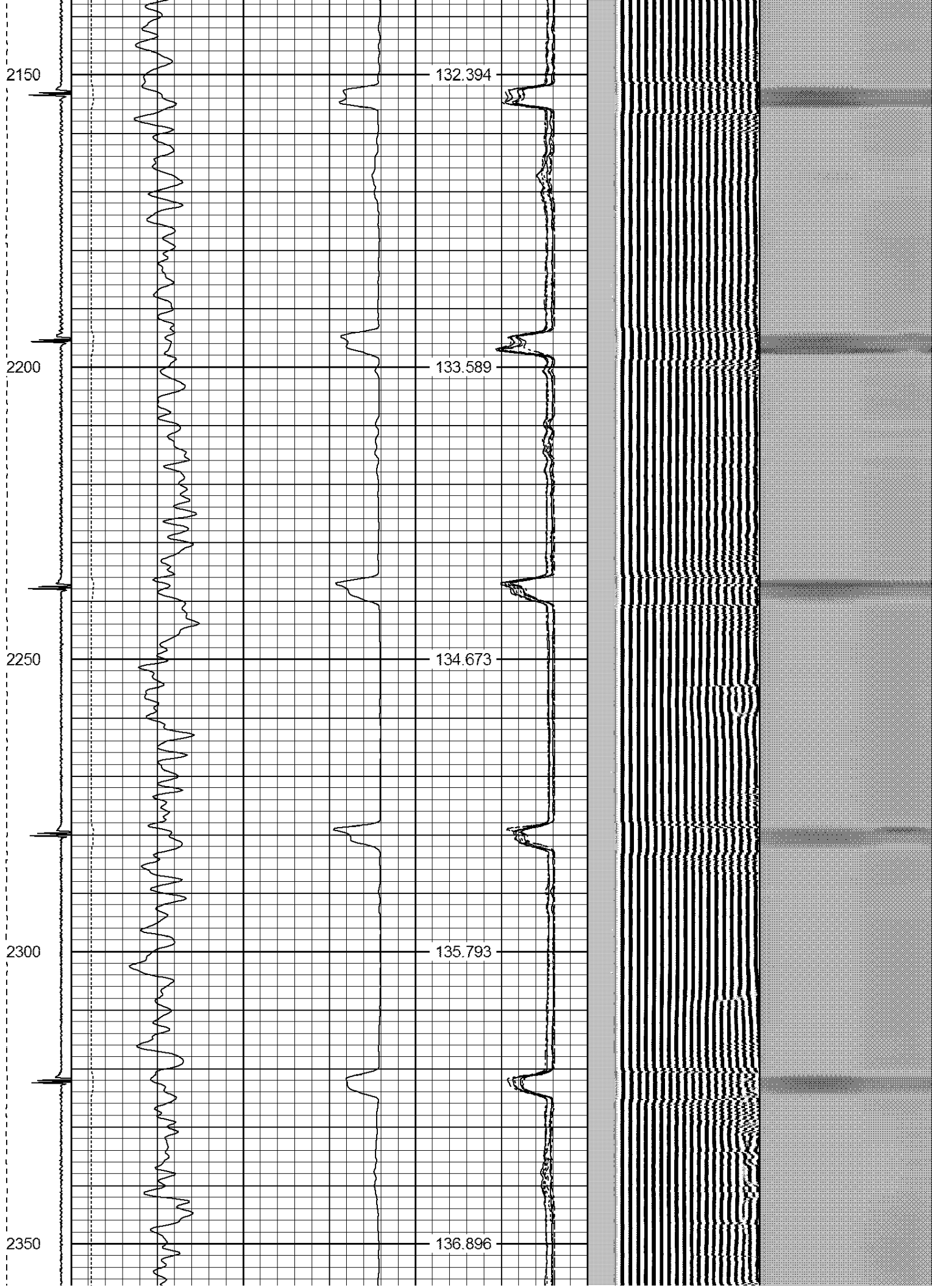
134.673

2300

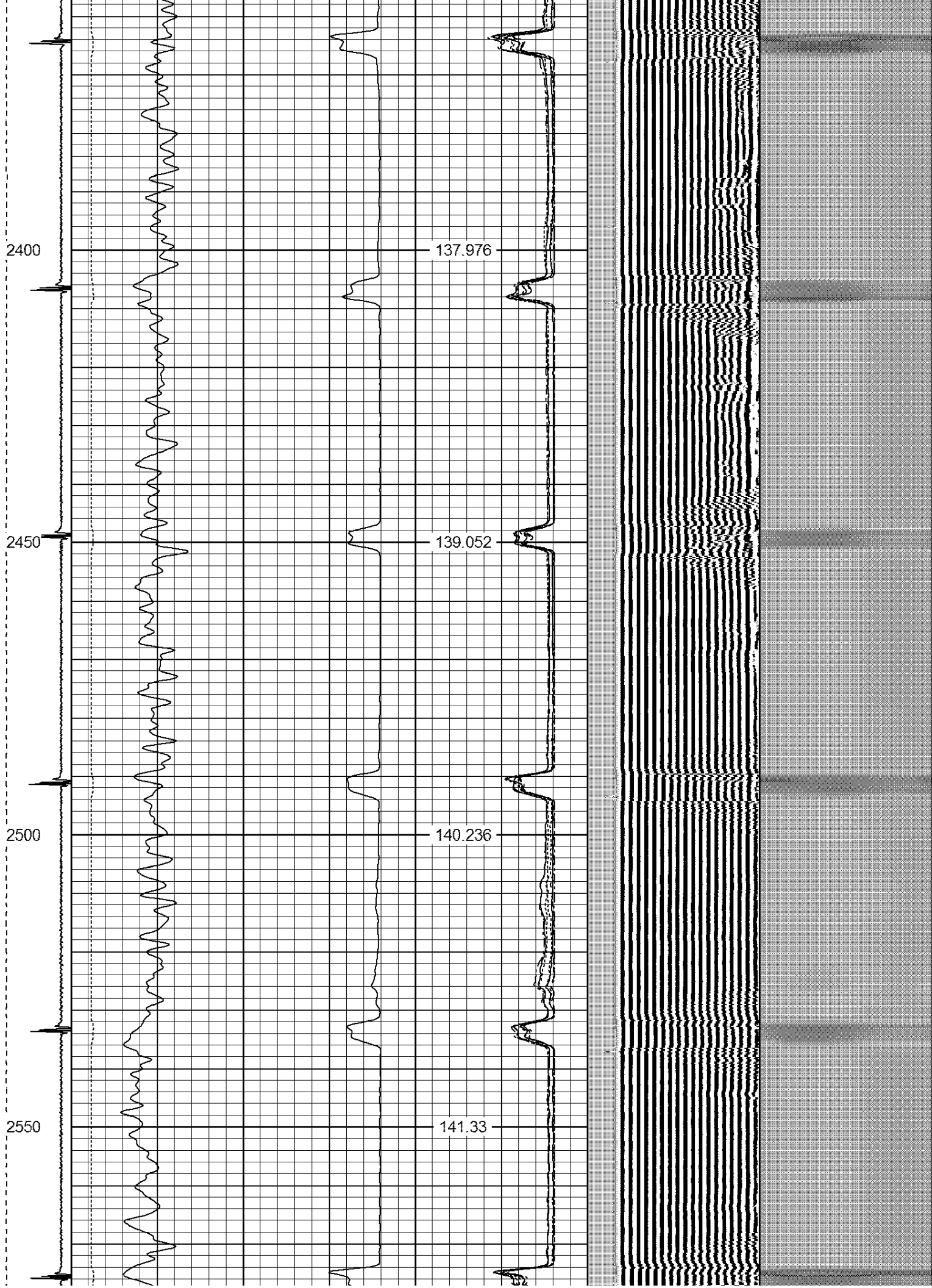
135.793

2350

136.896







2600

142.488

2650

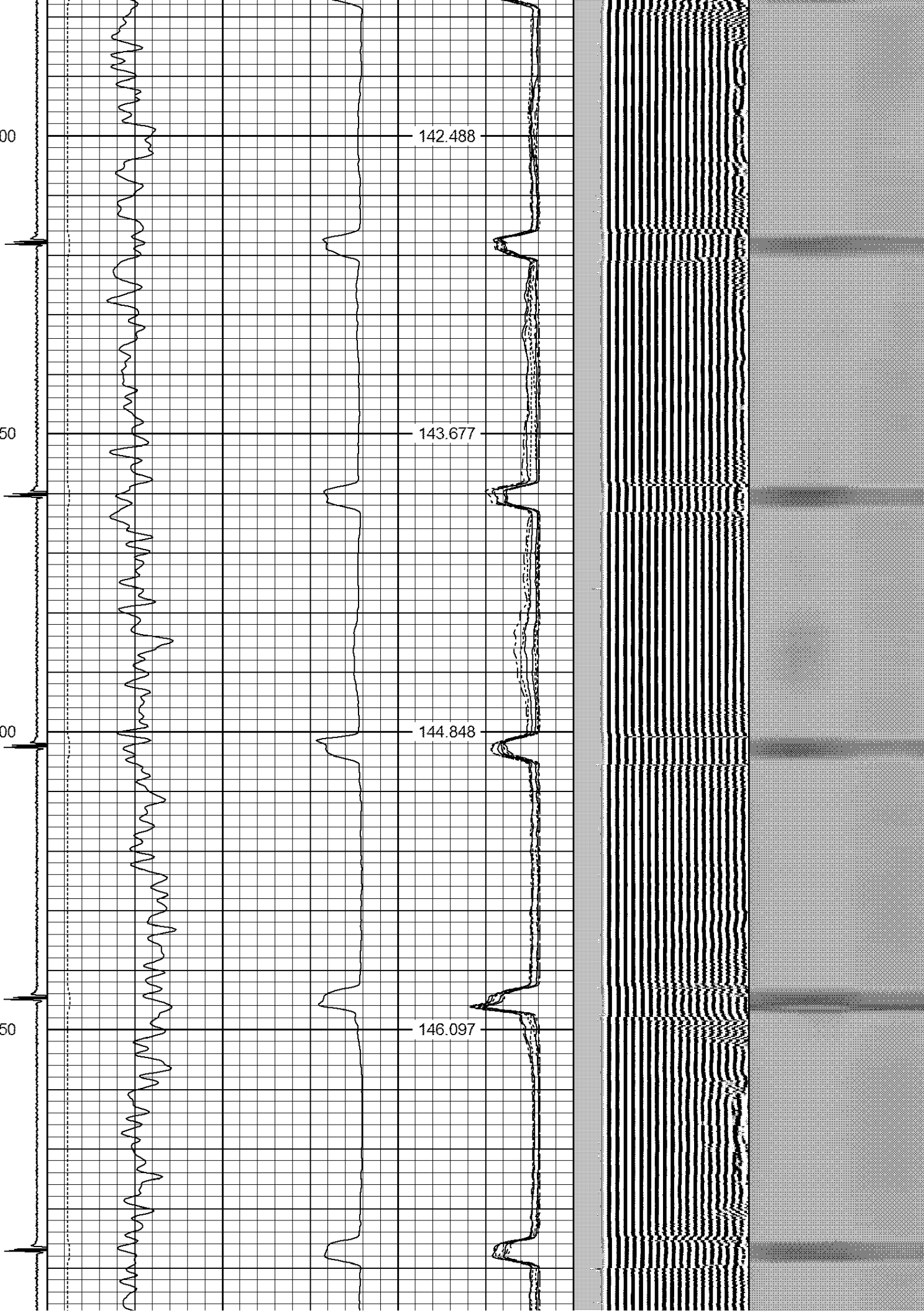
143.677

2700

144.848

2750

146.097



2800

147.252

2850

148.502

2900

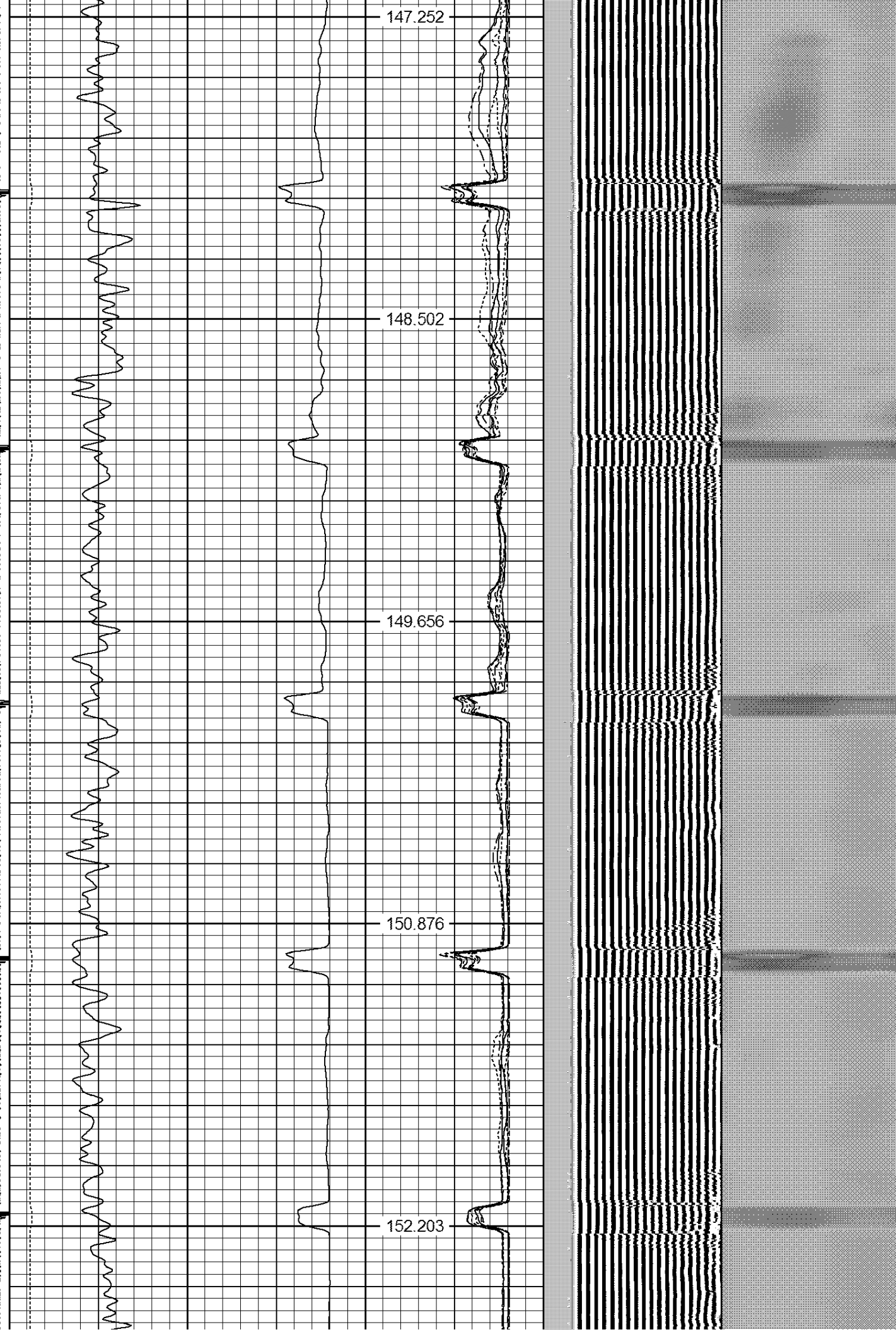
149.656

2950

150.876

3000

152.203







3250

158.489

3300

159.712

3350

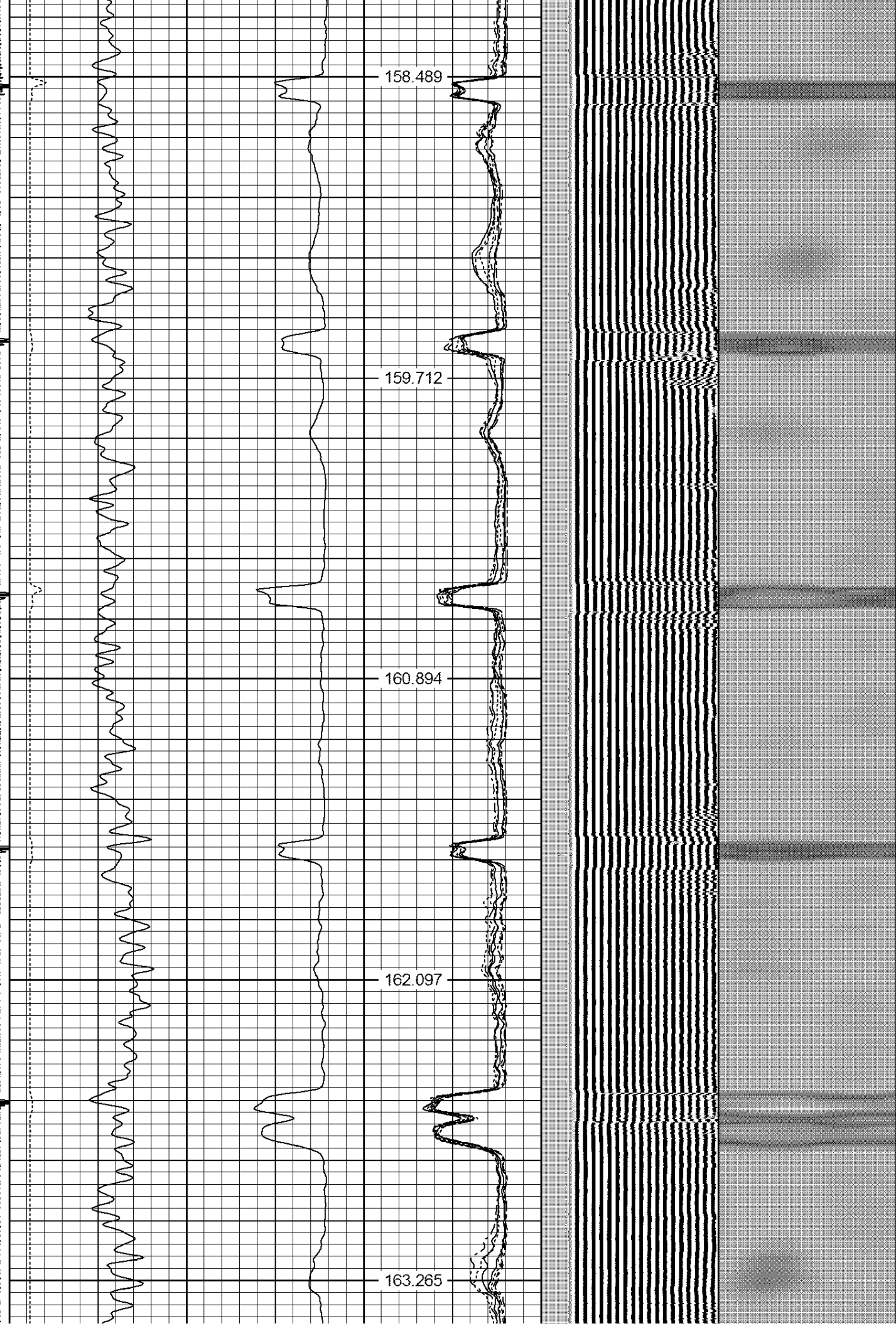
160.894

3400

162.097

3450

163.265





3500

164.325

3550

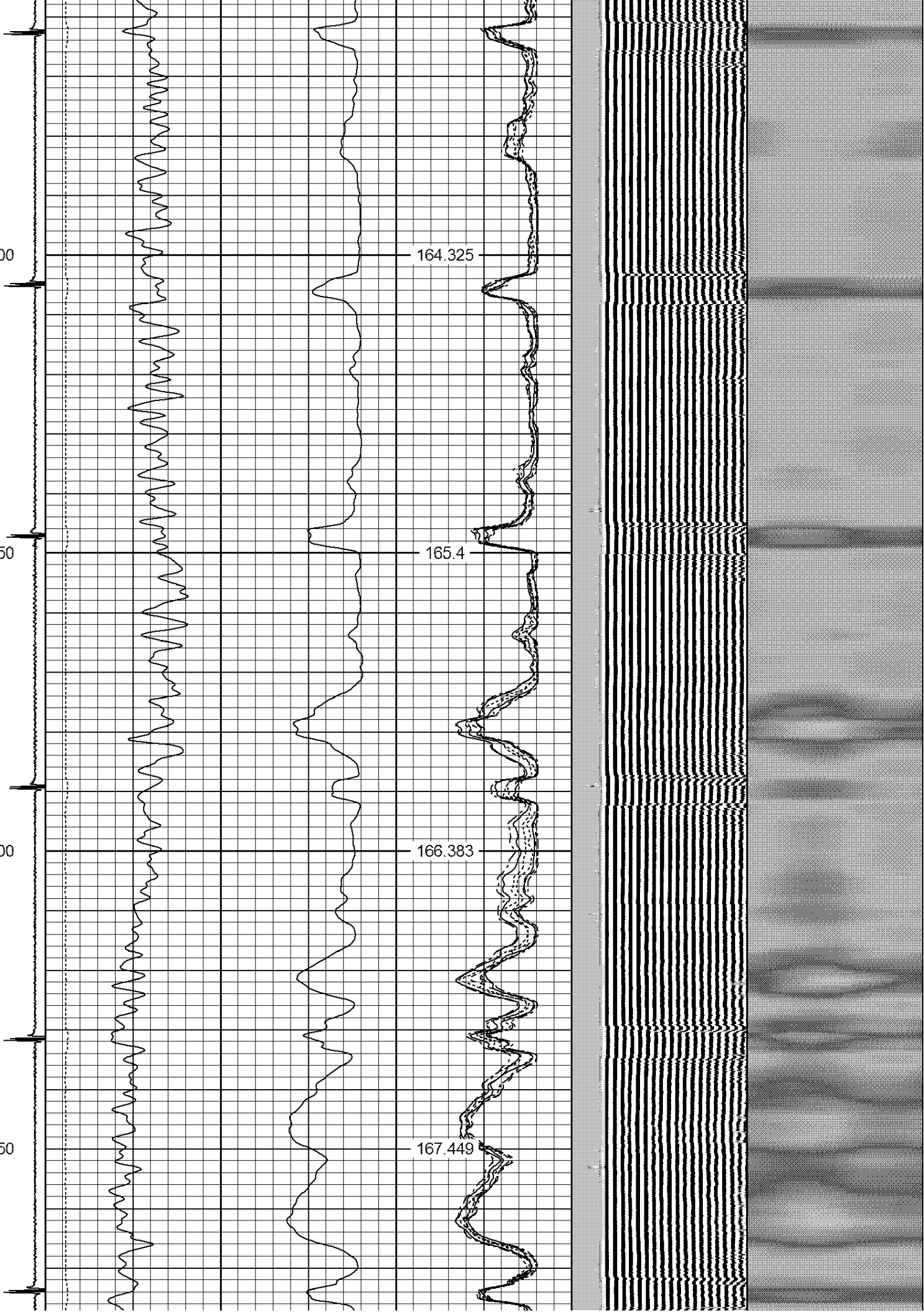
165.4

3600

166.383

3650

167.449



3700

168.439

3750

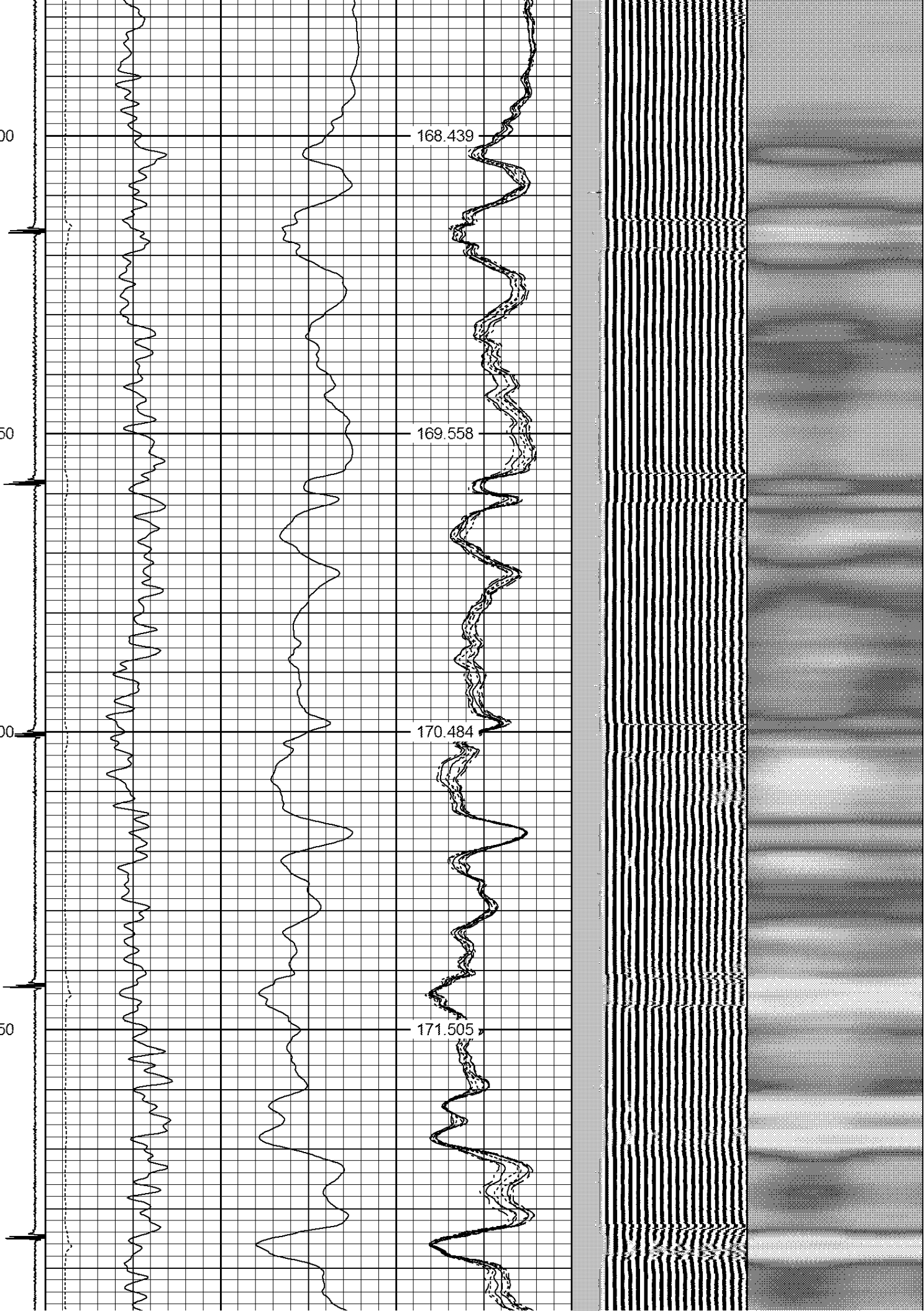
169.558

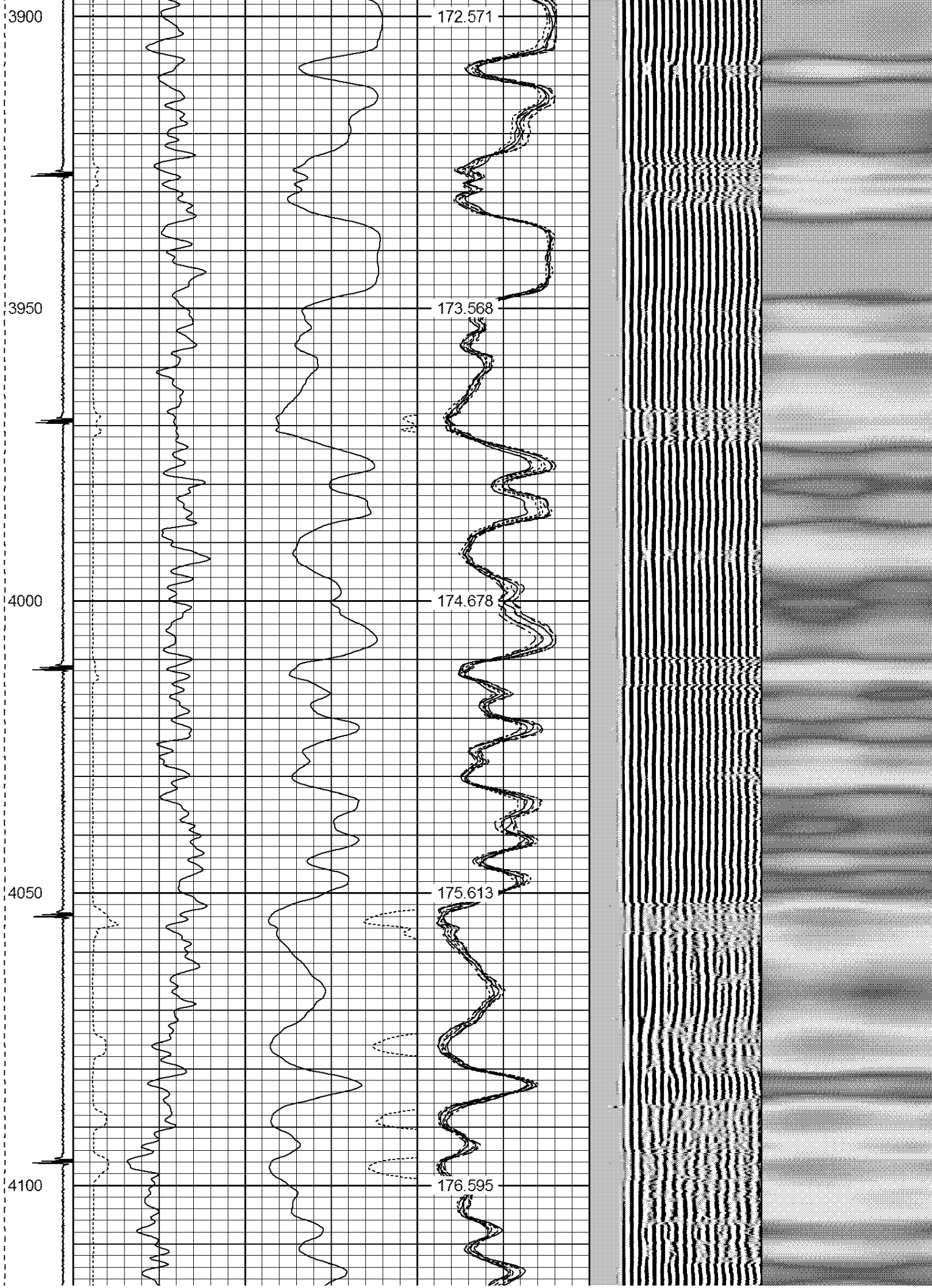
3800

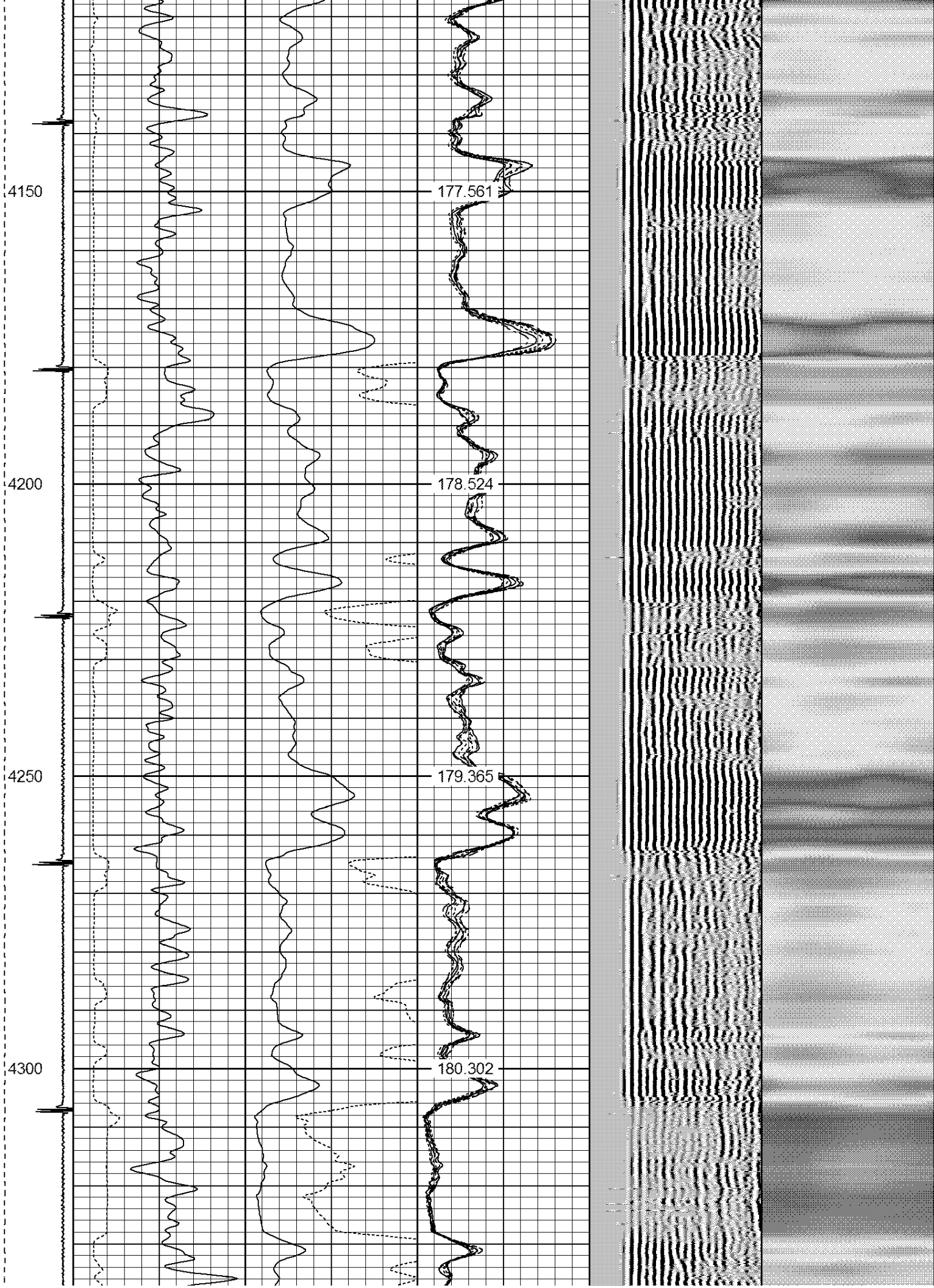
170.484

3850

171.505









4350

181.363

4400

182.256

4450

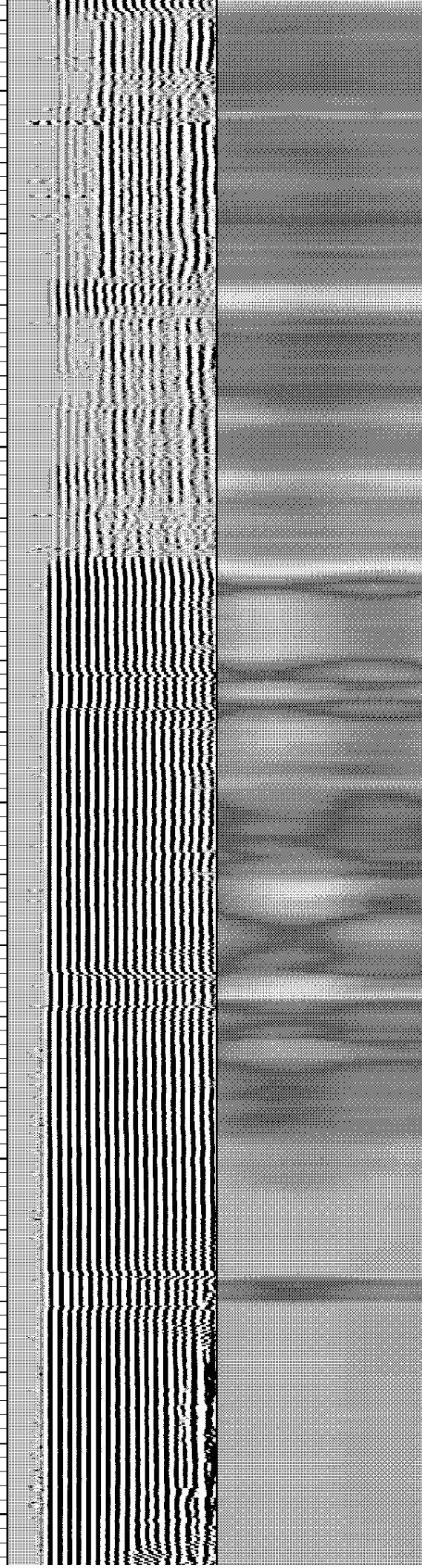
183.149

4500

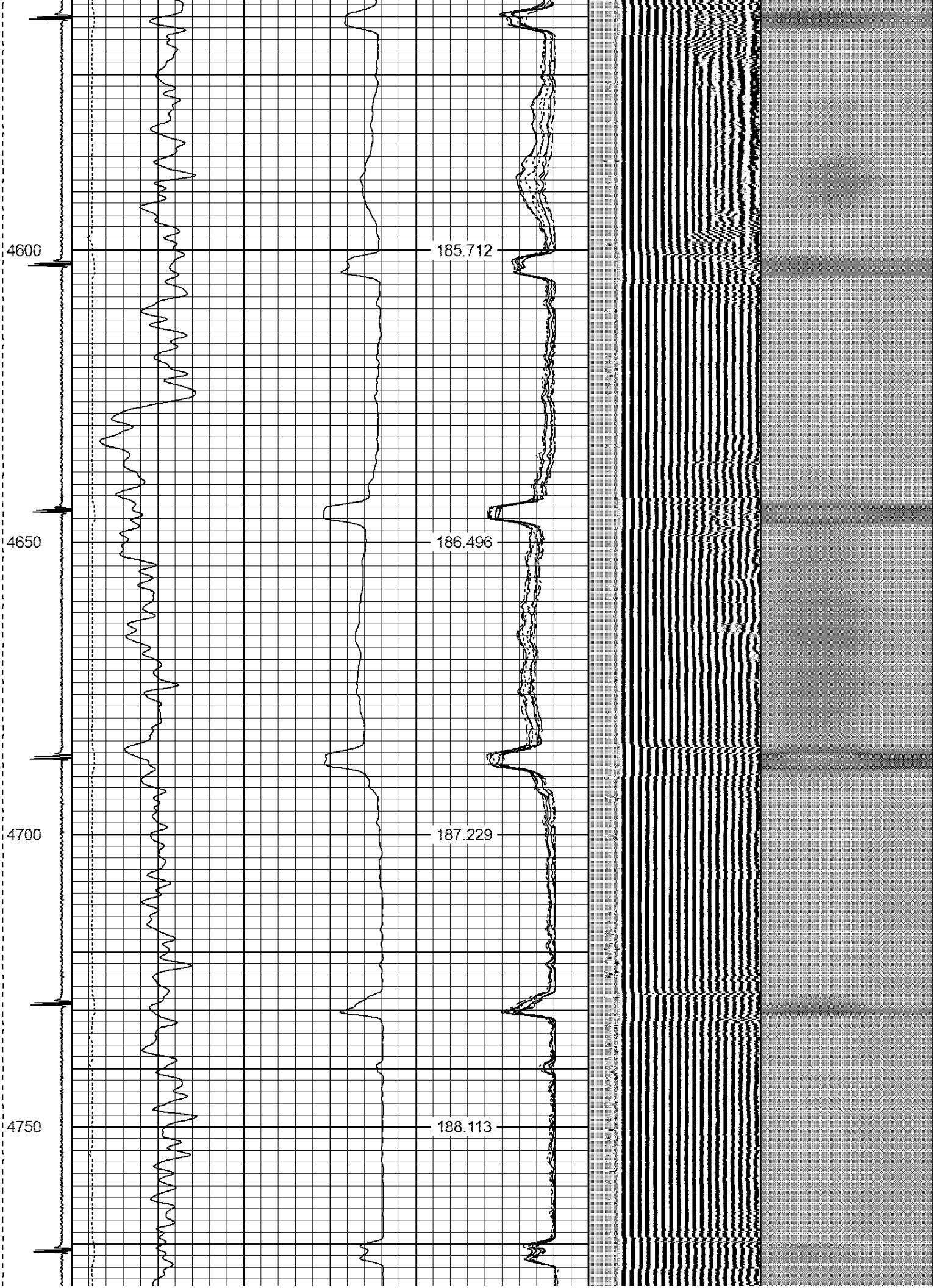
183.977

4550

184.748







4800

188.995

4850

189.715

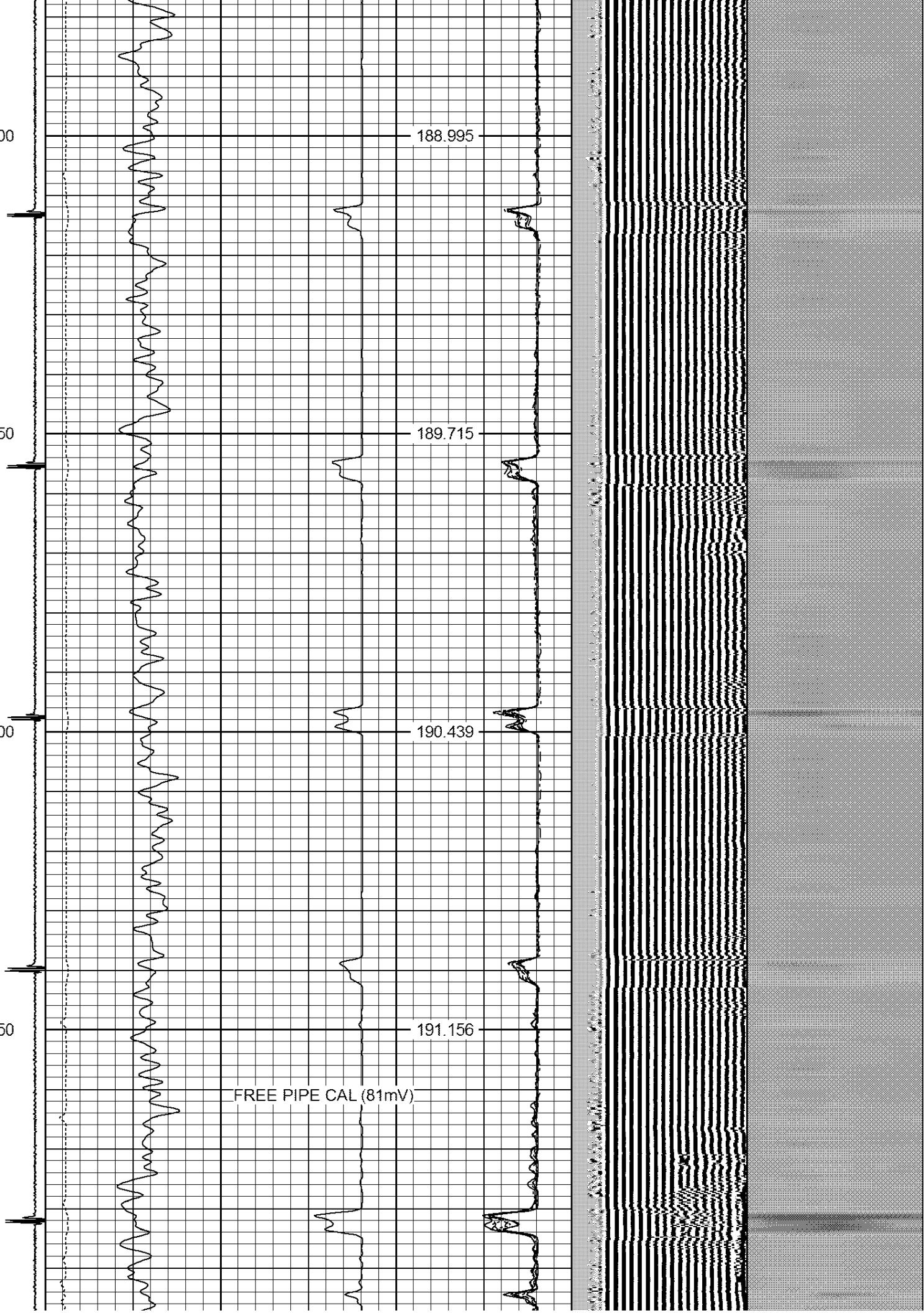
4900

190.439

4950

191.156

FREE PIPE CAL (81mV)



5000

191.83

5050

192.653

5100

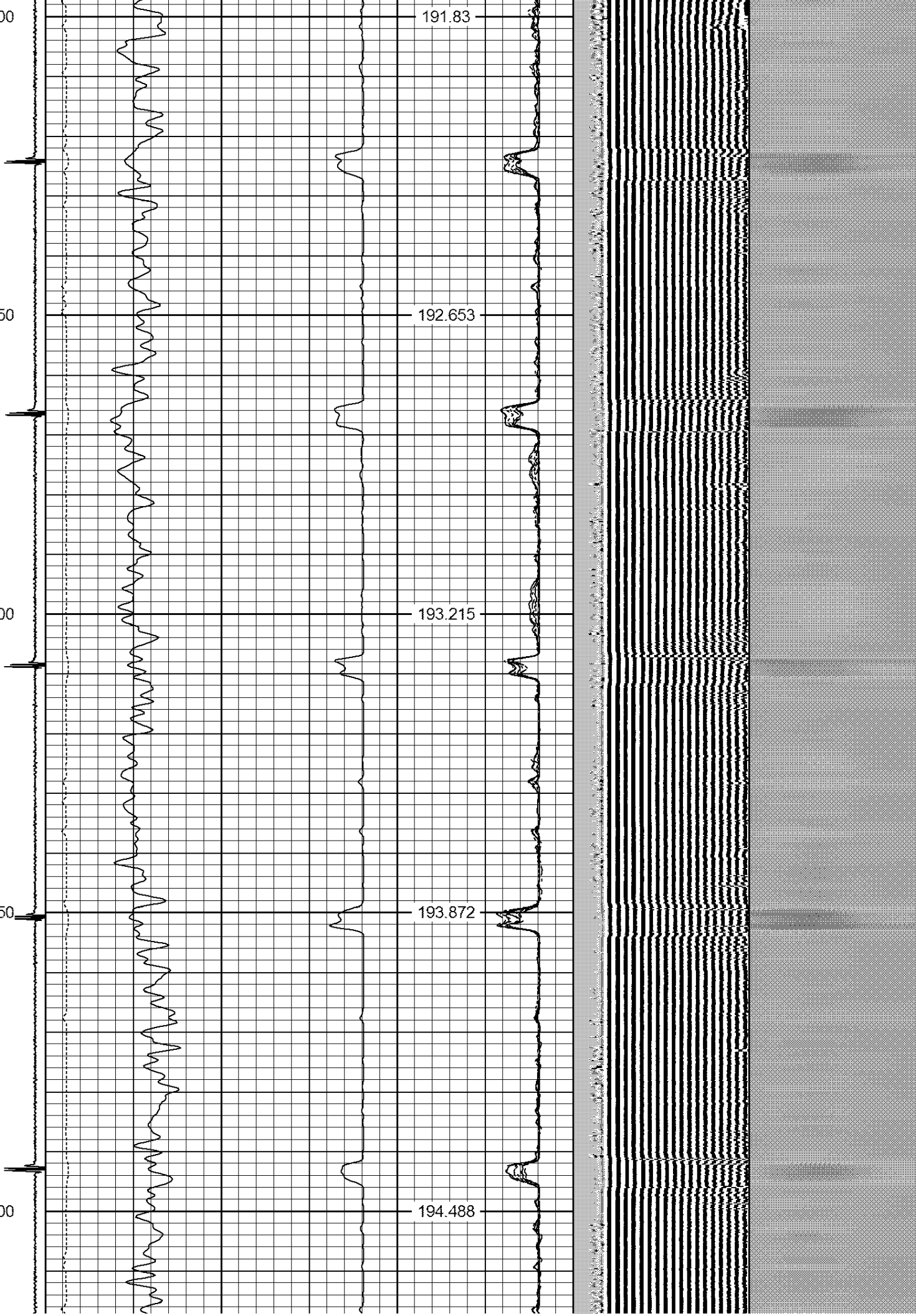
193.215

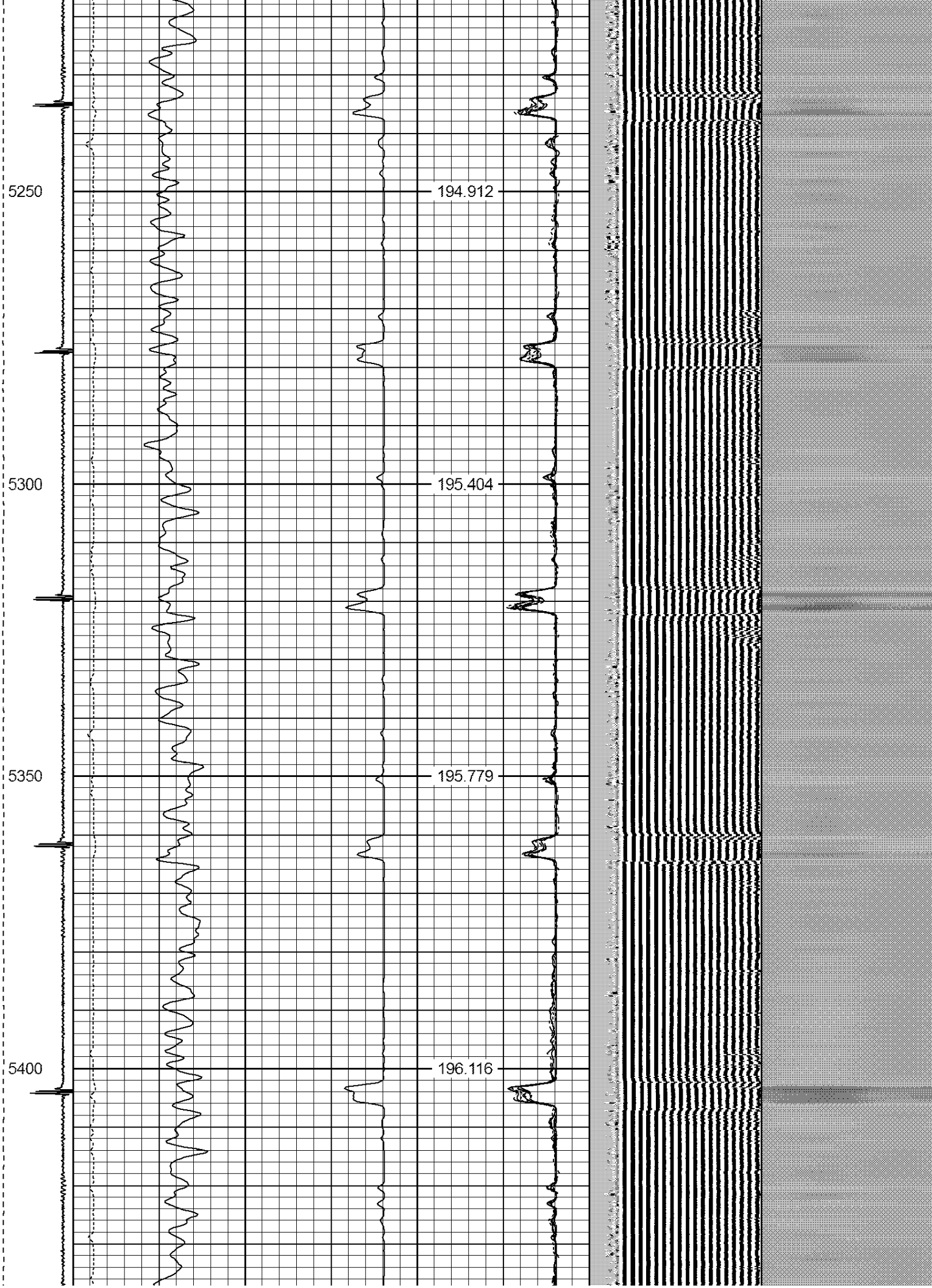
5150

193.872

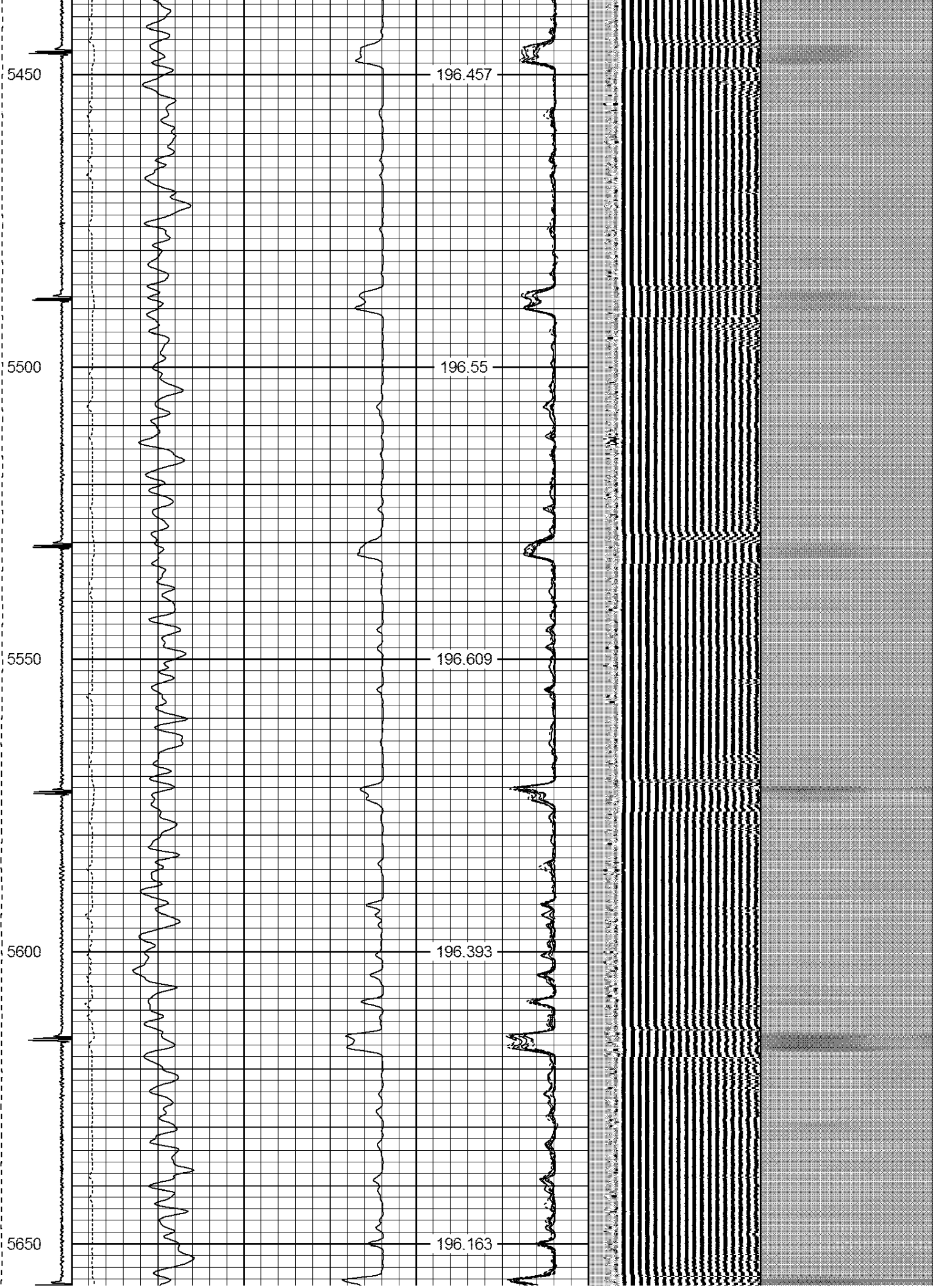
5200

194.488



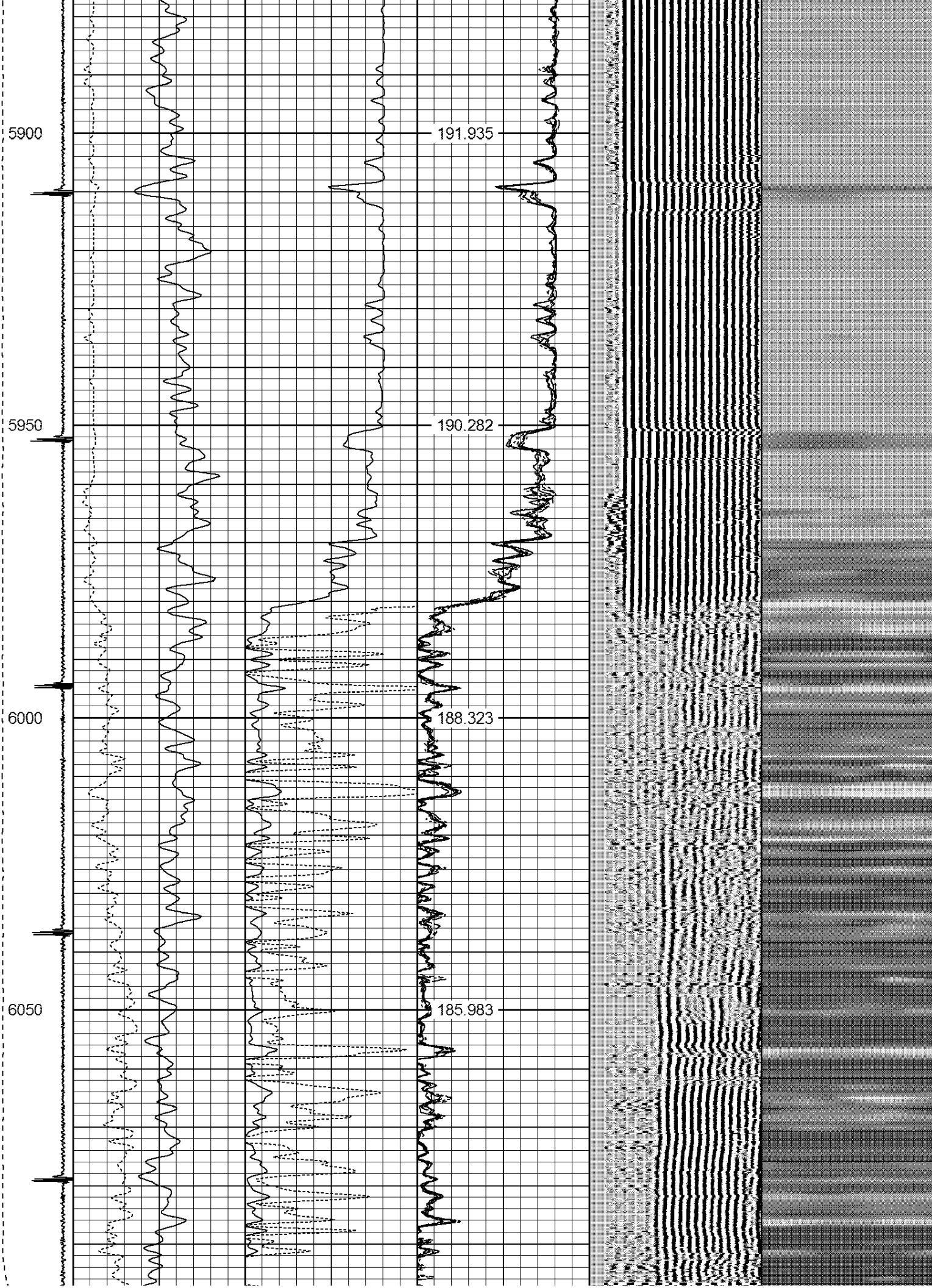


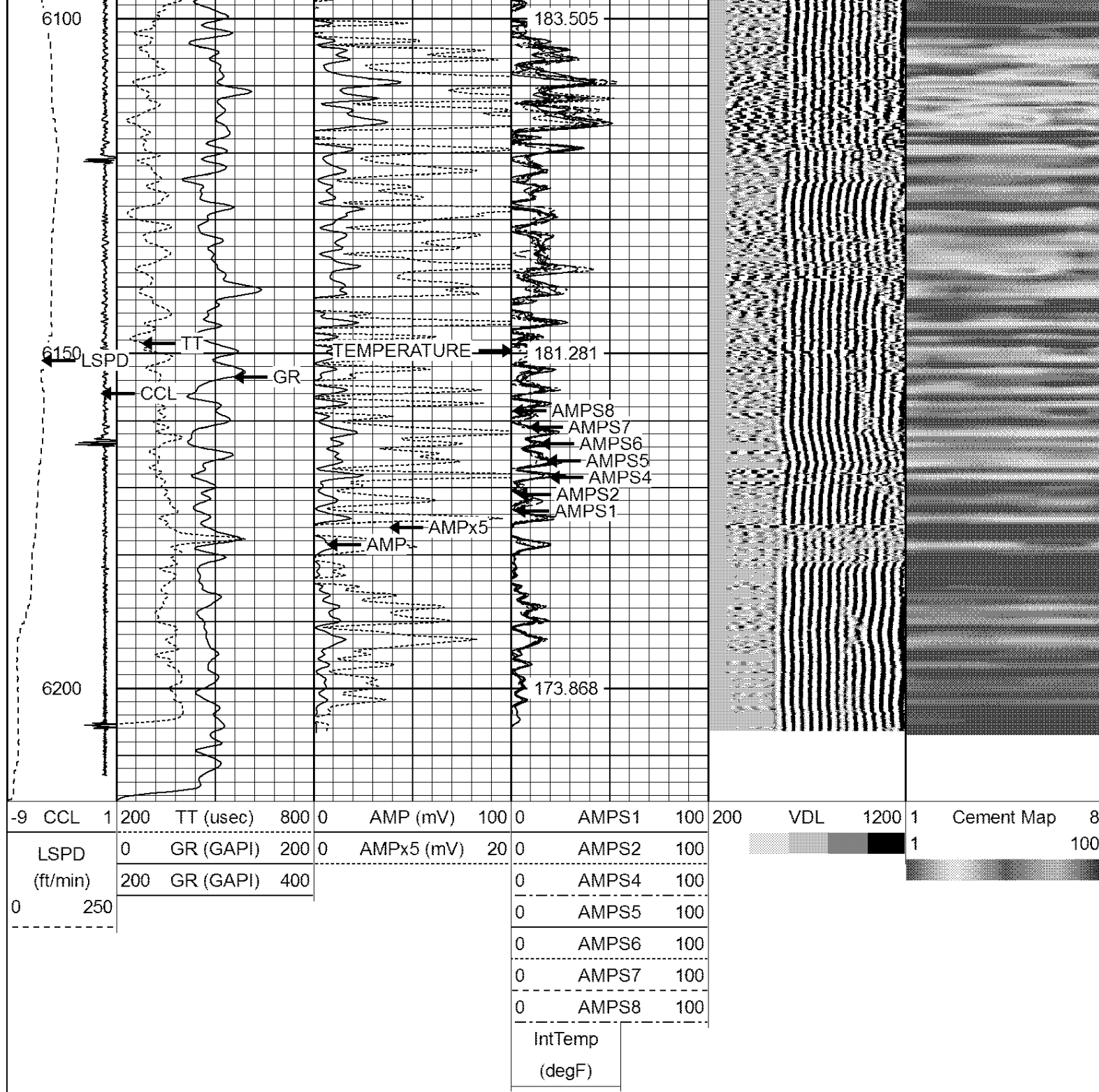












### Calibration Report

Database File: sharkey 10-35.db  
 Dataset Pathname: pass4  
 Dataset Creation: Tue Sep 08 08:35:18 2015 by Log Std Casedhole 09061

### Gamma Ray Calibration Report

Serial Number: 275  
 Tool Model: Probe  
 Performed: Wed Nov 06 11:09:15 2013

Calibrator Value: 100.0 GAPI

Background Reading: 35.0 cps

Calibrator Reading: 160.0 cps

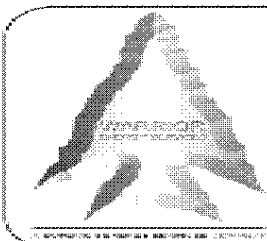
Sensitivity:		0.9000		GAPI/cps		
Compensated Neutron Calibration Report						
Serial Number:		275				
Tool Model:		Probe_B				
CALIBRATION		Wed Jul 30 08:47:19 2008				
Detector		Readings		Target		Normalization
Short Space		5001.20	cps	0.00	cps	1.0000
Long Space		1029.31	cps	0.00	cps	1.0000
PRE-SURVEY 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:		4961.208	ft			
Master Calibration, performed Tue Sep 08 08:30:51 2015:						
		Raw (v)		Calibrated (mv)		Results
		Zero	Cal	Zero	Cal	Gain      Offset
3'		0.003	2.500	1.500	81.196	31.923      1.389
CAL		1.039	2.500			
5'		0.004	2.500	1.500	81.196	31.928      1.377
SUM						
S1		0.002	2.500	0.500	81.000	32.230      0.424
S2		0.006	2.500	0.500	81.000	32.272      0.321
S3		0.004	2.407	0.500	81.000	33.509      0.352
S4		0.004	2.436	0.500	81.000	33.101      0.353
S5		0.005	2.494	0.500	81.000	32.341      0.329
S6		0.006	2.500	0.500	81.000	32.273      0.317
S7		0.006	2.500	0.500	81.000	32.280      0.301
S8		0.004	2.500	0.500	81.000	32.256      0.360



	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	1.039	2.500	1.000	0.000

Air Zero Calibration, performed Tue Sep 08 08:04:37 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	



**WARRIOR**  
ENERGY SERVICES

Company Kerr McGee Oil &amp; Gas

Well SHARKEY 10-35

Field Wattenberg

County Weld

State CO