

RADIAL CEMENT BOND LOG GAMMA RAY CCL

Company		ANADARKO PETROLEUM CORP.	
Well		ANSCHUTZ 1	
Field		WATTENBERG	
County		WELD	
State		COLORADO	
Location:		API # : 05-123-07811	
SHL: 1797' FSL 994' FEL NW/SW		Other Services	
LAT: 40.06420 LONG: -104.69360			
SEC 8 TWP 1N RGE 65W			
Permanent Datum		GL	Elevation
Log Measured From		KB 10'	4960'
Drilling Measured From		KB	Elevation
			KB. 4970'
			D.F. 4969'
			G.L. 4960'
Date	11-5-2015		
Run Number	ONE		
Depth Driller	8070'		
Depth Logger	7428'		
Bottom Logged Interval	7419'		
Top Log Interval	SURFACE		
Open Hole Size	7 7/8		
Type Fluid	WATER		
Density / Viscosity	1.0		
Max. Recorded Temp.	218 DEG F		
Estimated Cement Top	1552/566'		
Time Well Ready	N/A		
Time Logger on Bottom	N/A		
Equipment Number	3812		
Location	GREELEY		
Recorded By	N.POLLOCK		
Witnessed By	RIGO VIERA		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
		Size	Weight
		From	To
Casing Record	Size	Wgt/Ft	Top
Surface String	8.62	24#	SURFACE
Prot. String			
Production String	4.5	11.6#	SURFACE
Liner			7946'

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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 LOG TO VERIFY CEMENT TOP

CORRELATED 14' IN HOLE TO WARRIOR LOG RAN ON 10-15-2015

THANK YOU FOR USING WARRIOR ENERGY SERVICES!

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: anschutz 01.db: field/well/run1/pass4 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	GR (cps)	200	0		AMPx5 (mV)	20	0	AMPS2	100			100			1
			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)								



200

250

300

350

89.0341

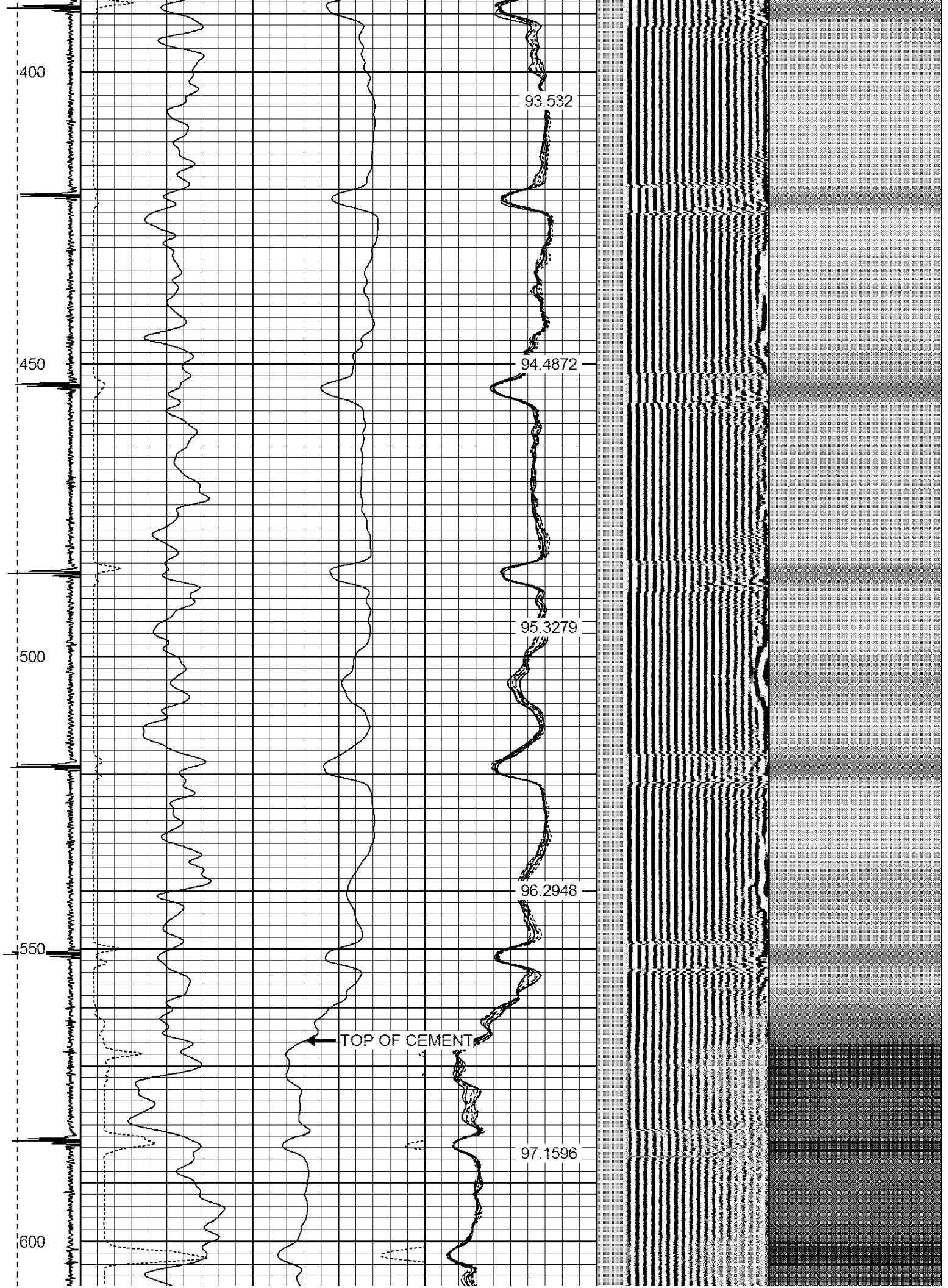
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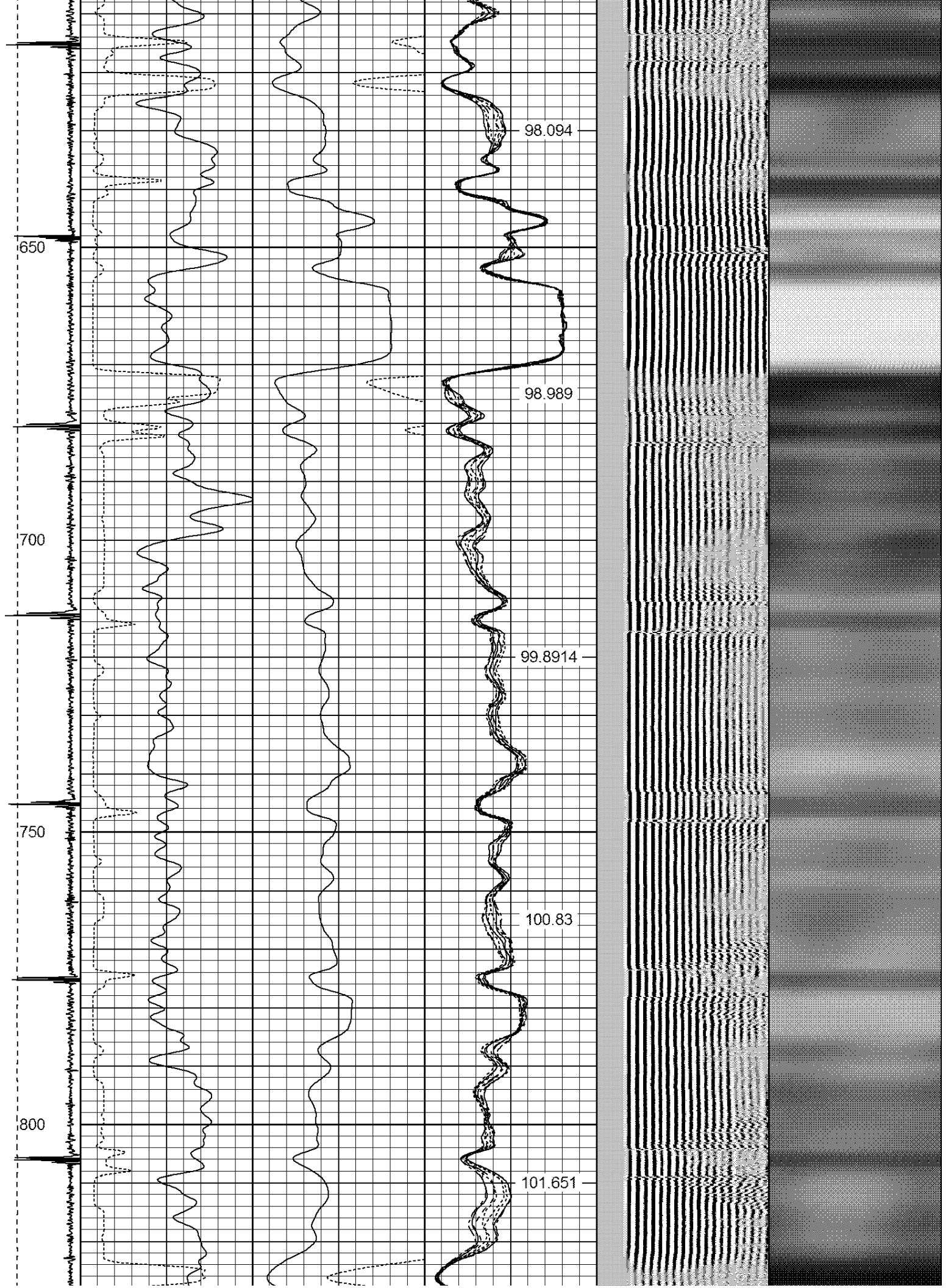
90.7778

91.7715

92.5526

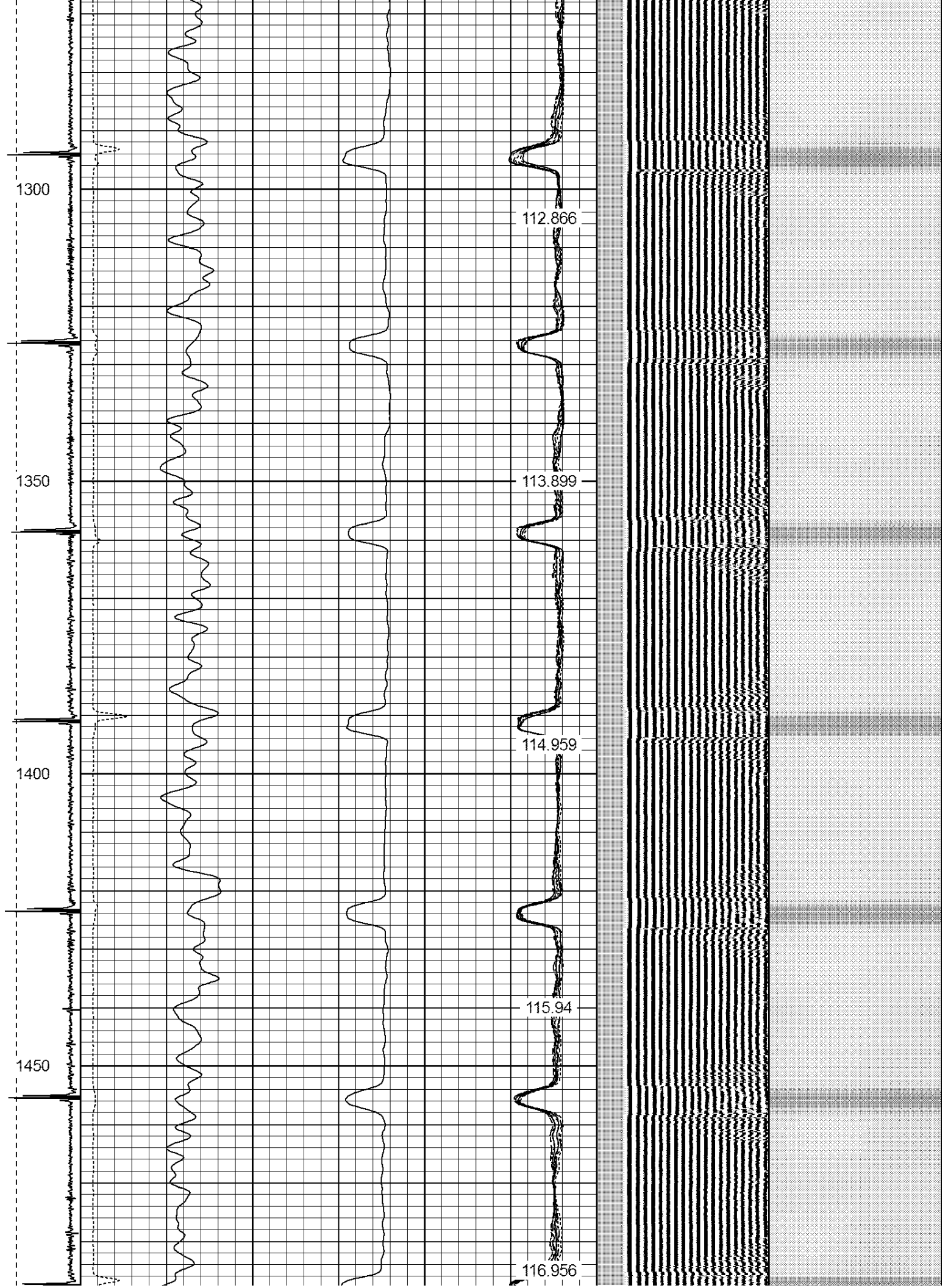


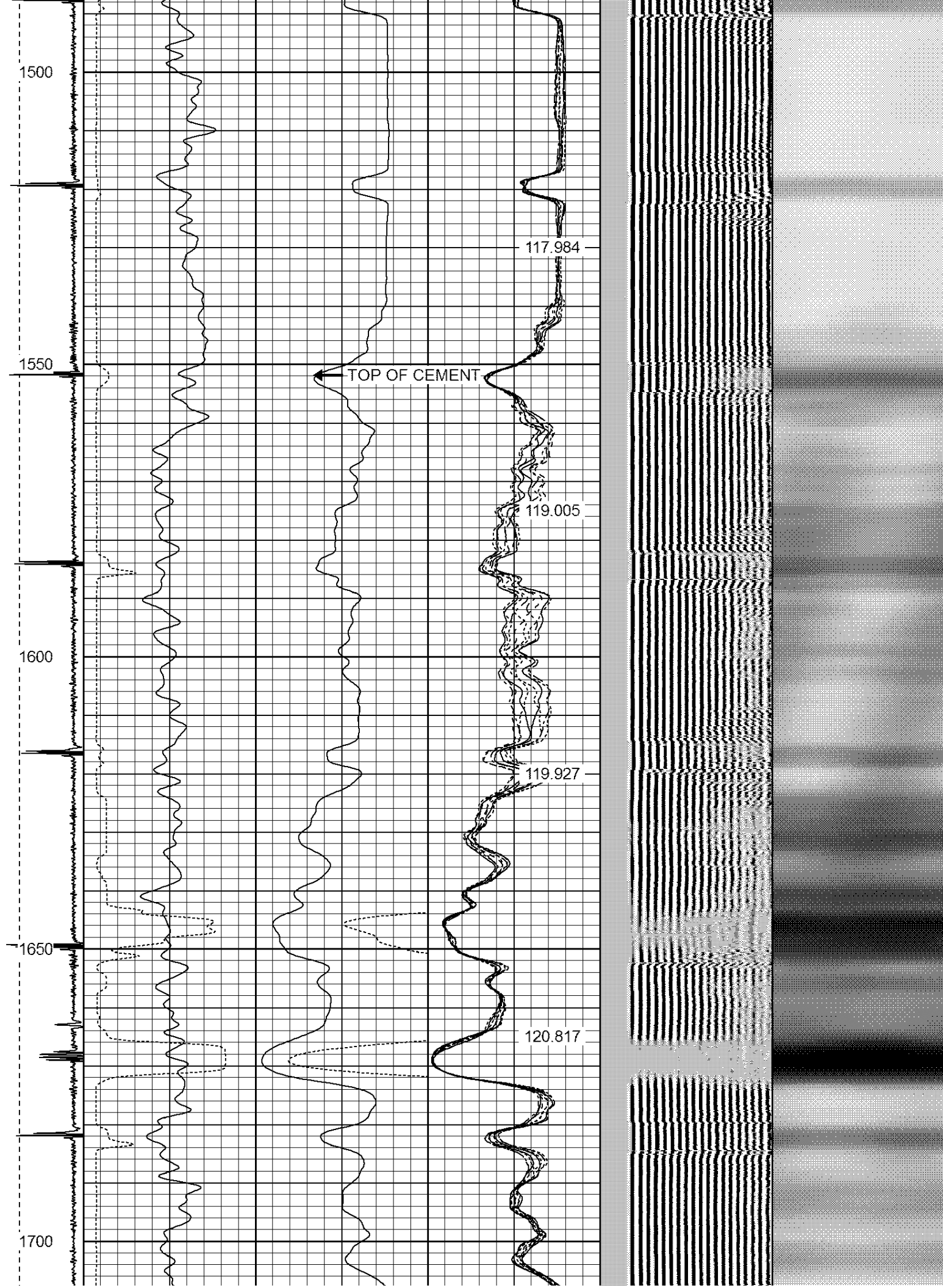


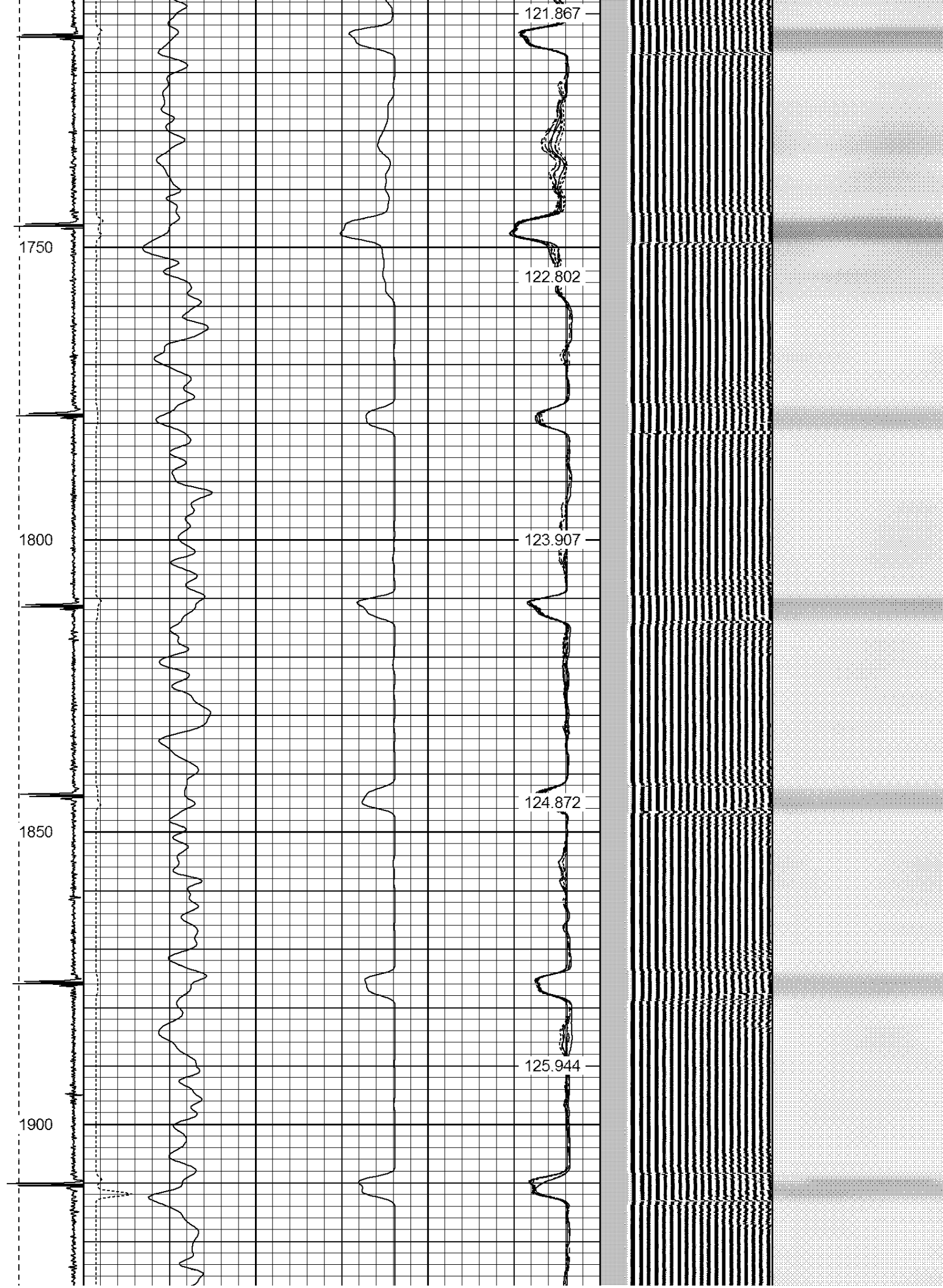


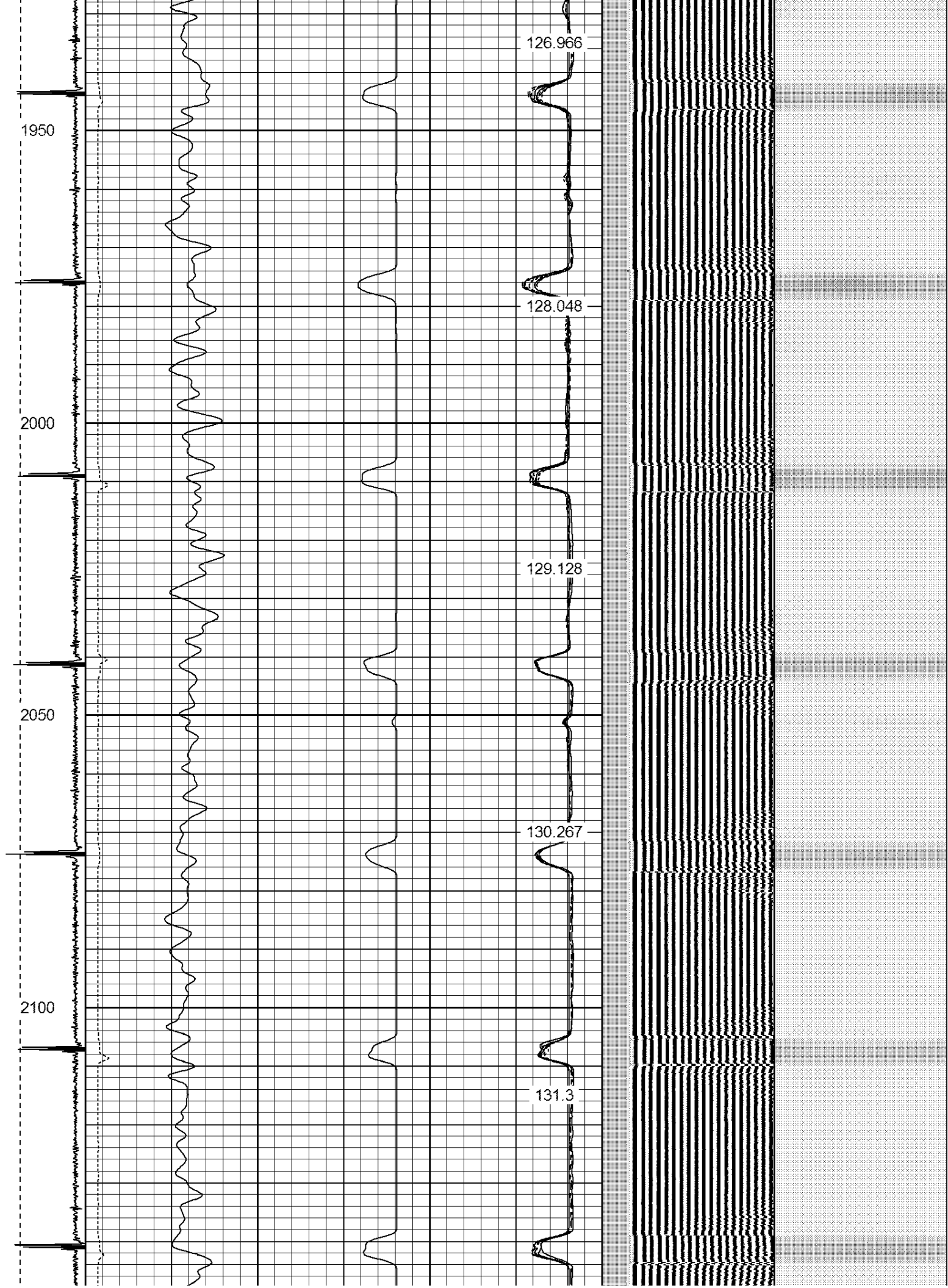












2150

2200

2250

2300

2350

132.339

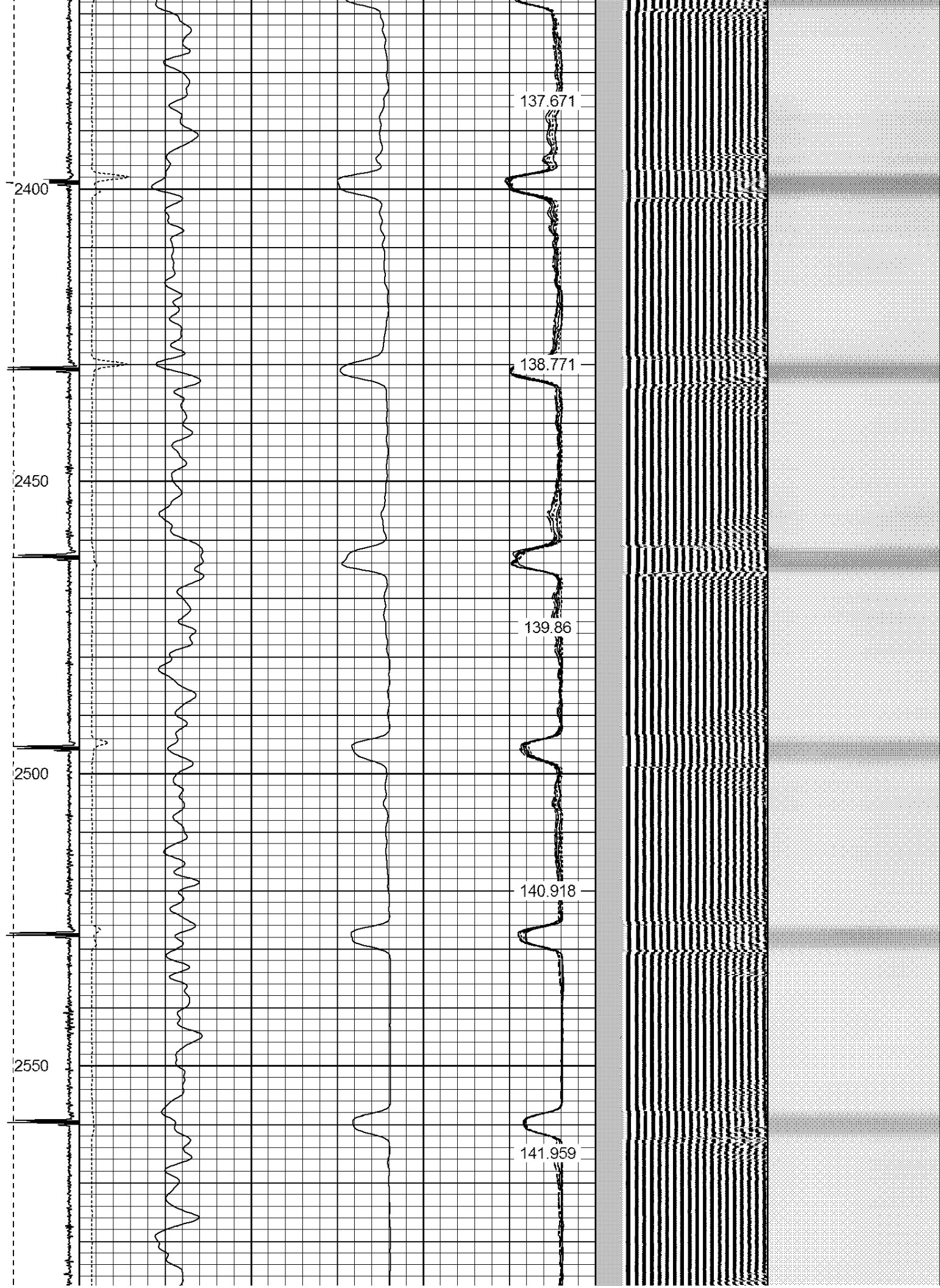
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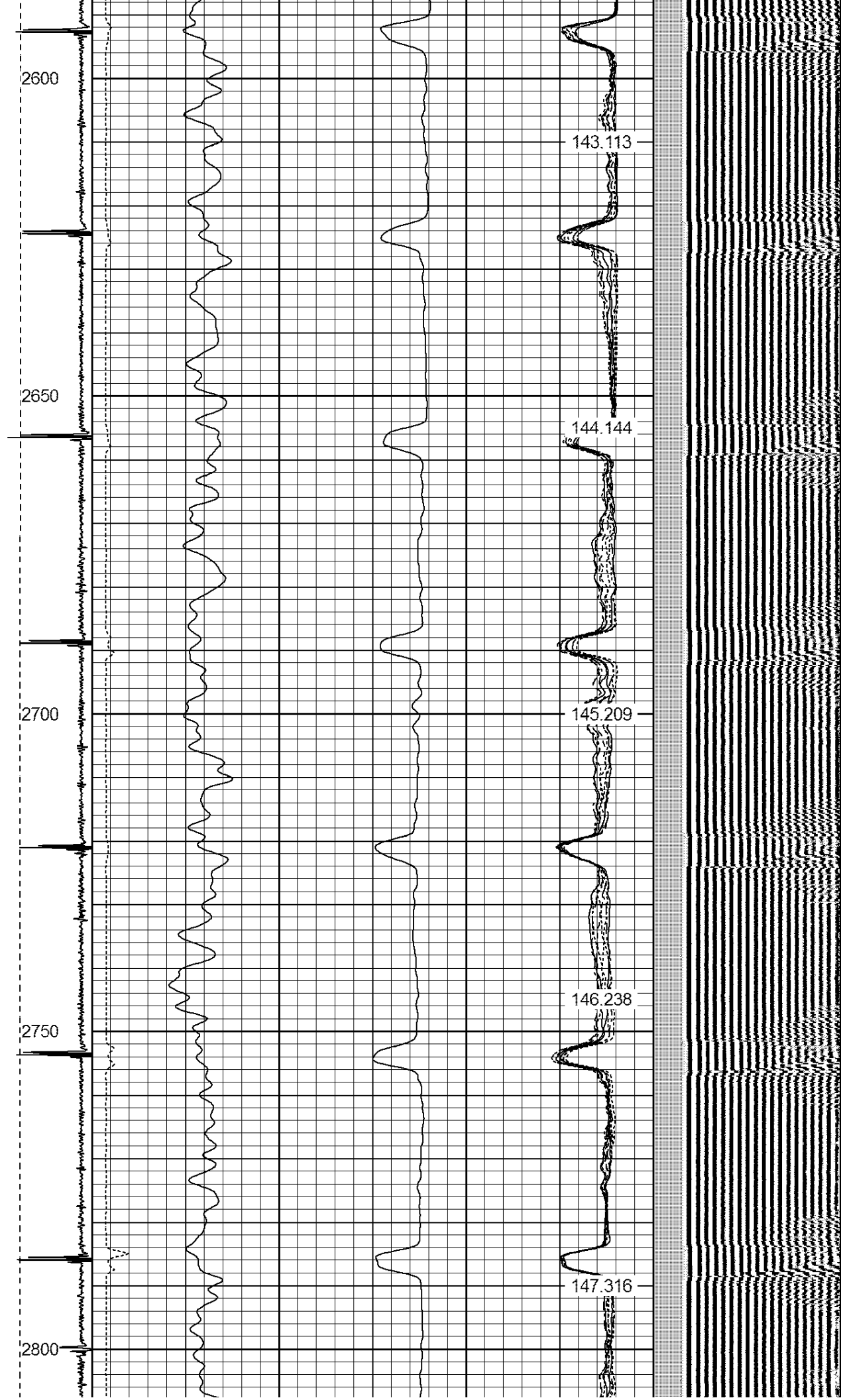
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135.506

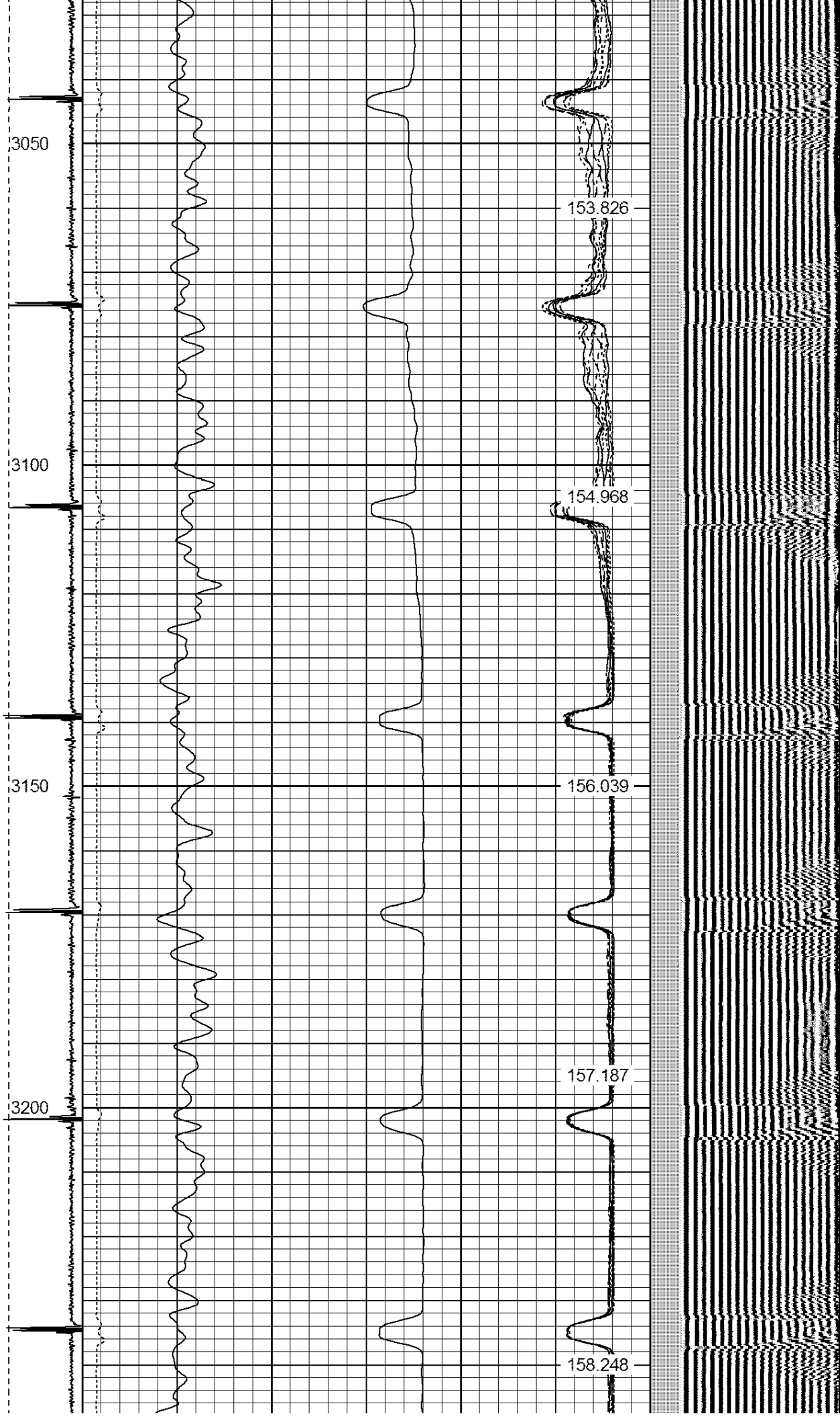
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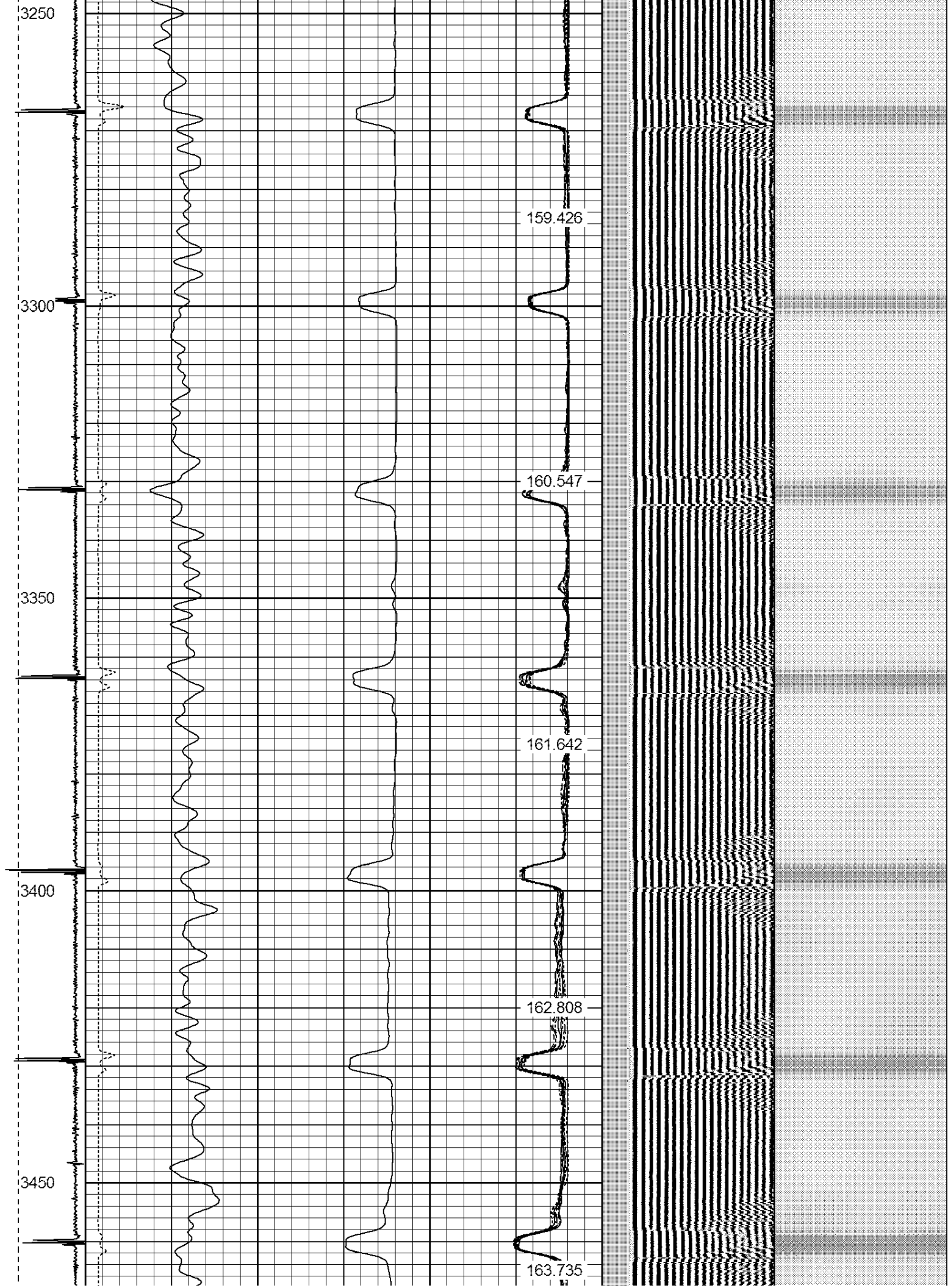


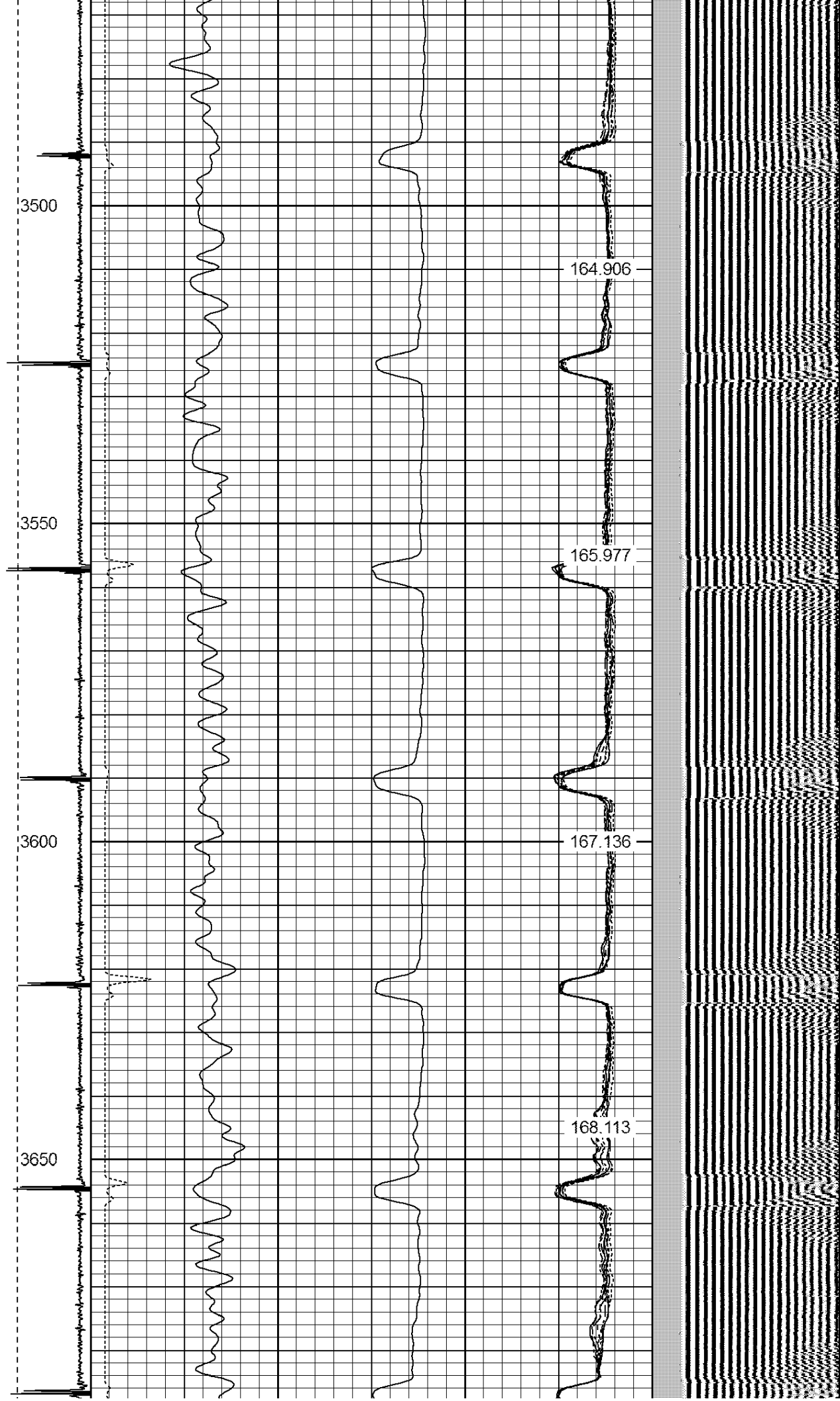












3700

3750

3800

3850

3900

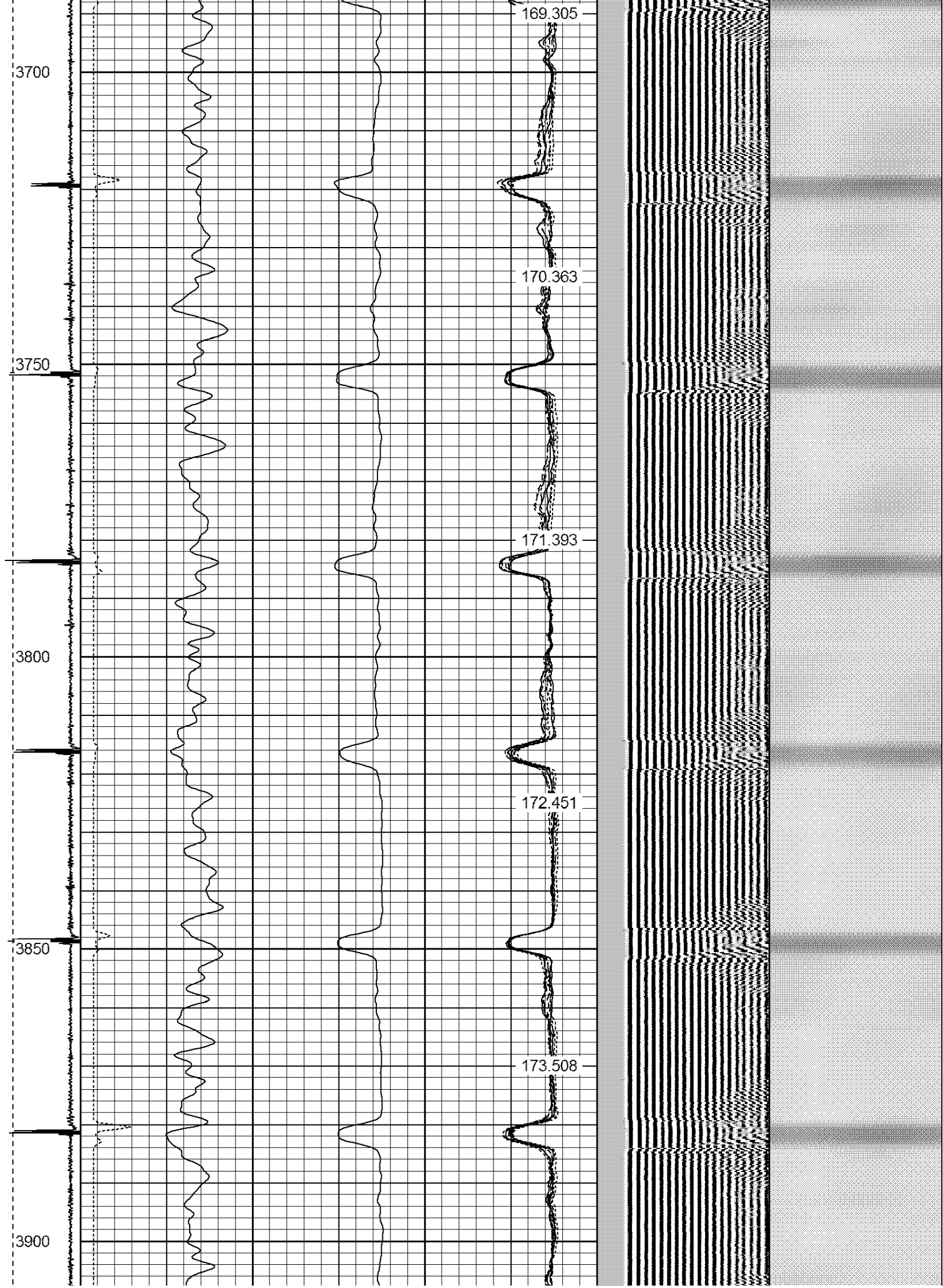
169.305

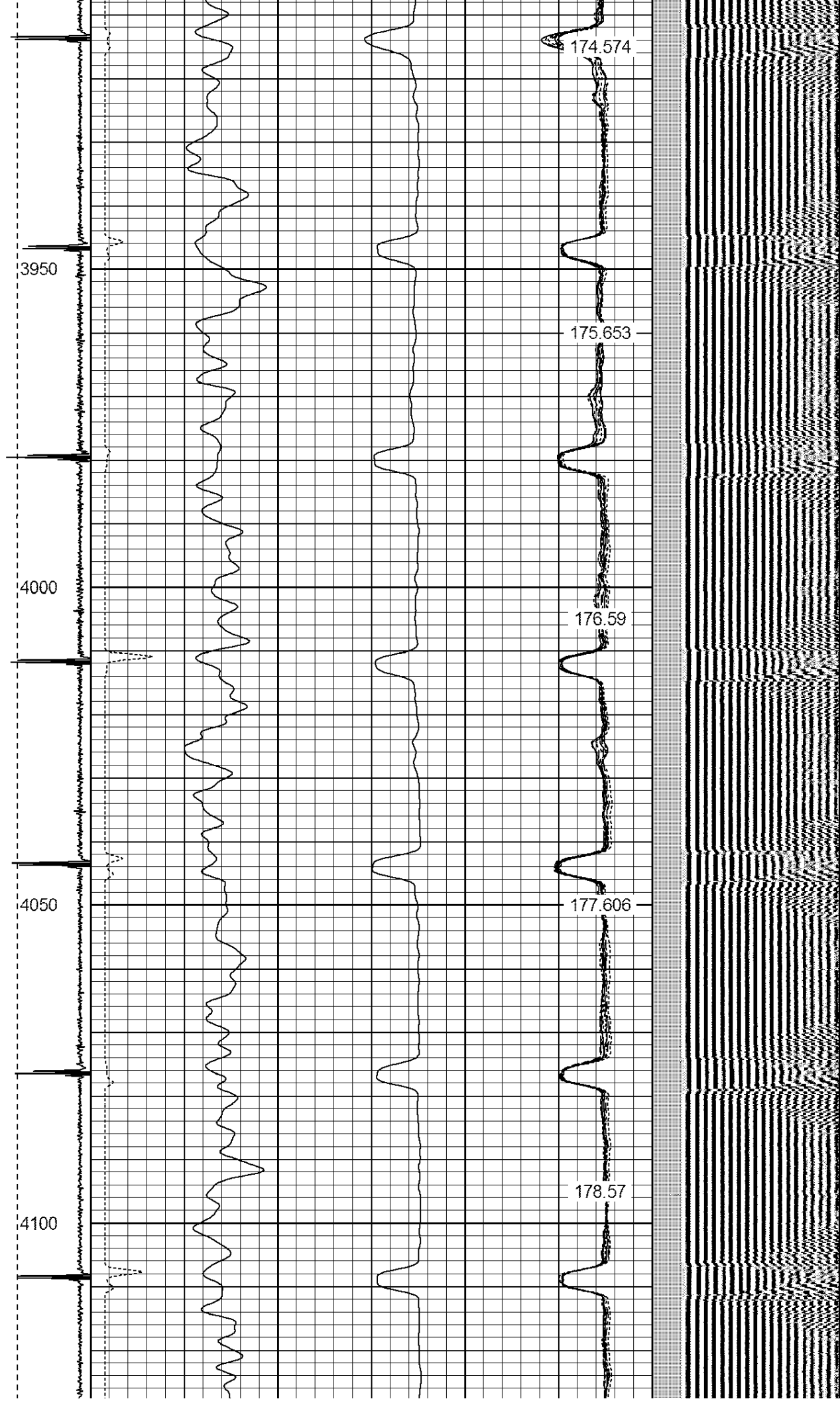
170.363

171.393

172.451

173.508





4150

4200

4250

4300

179.607

180.503

181.465

182.456

183.279



4350

4400

4450

4500

4550

184.342

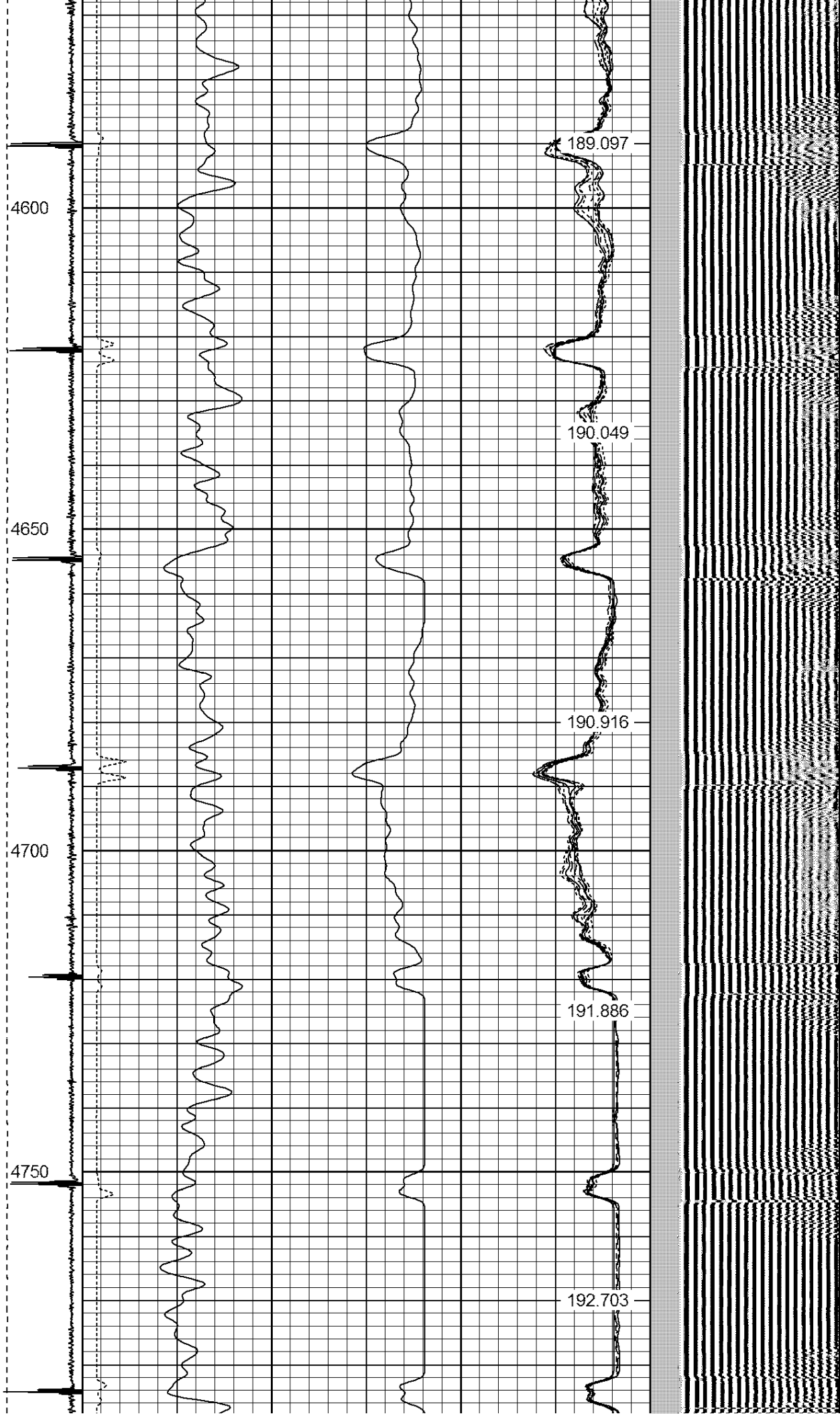
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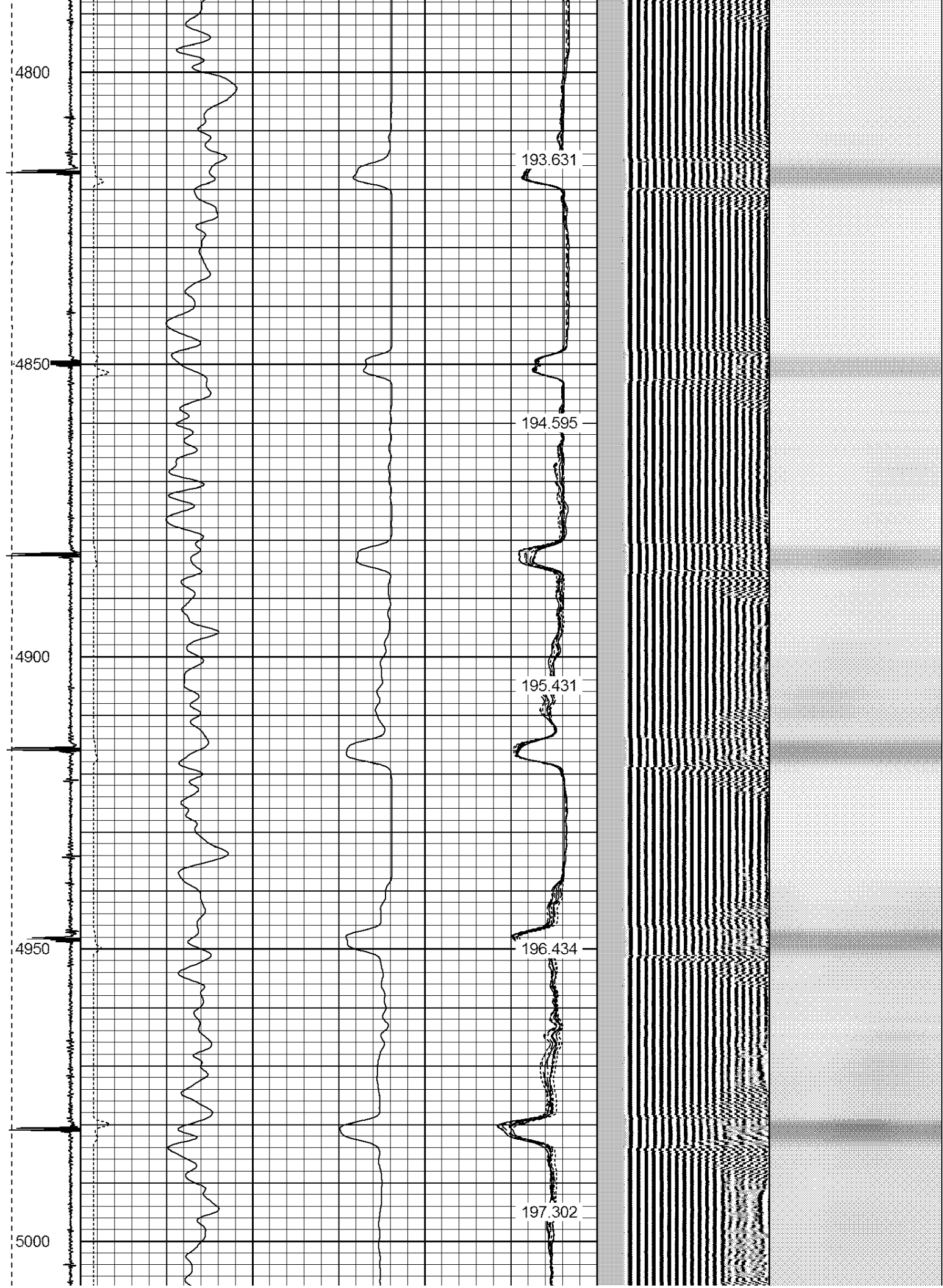
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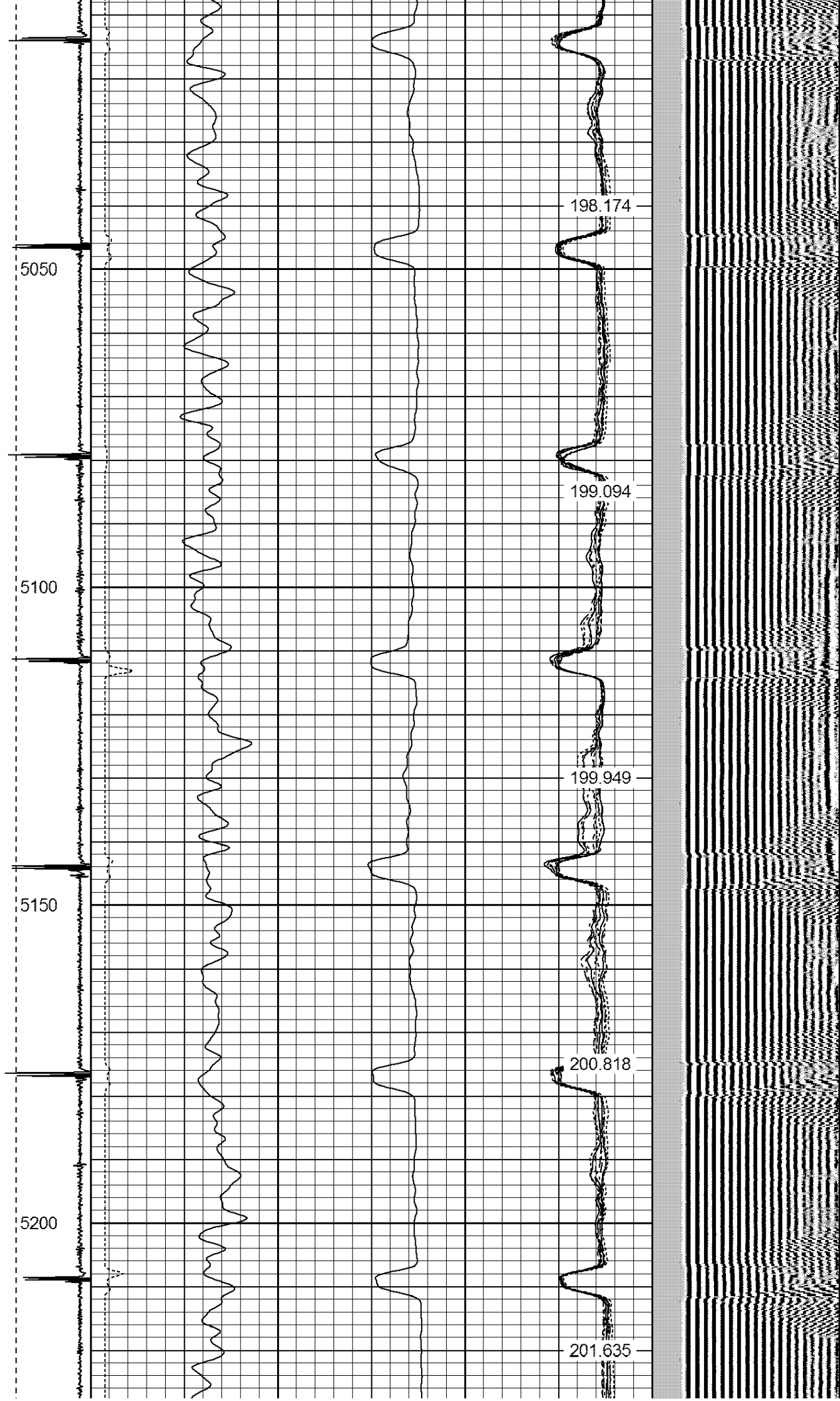
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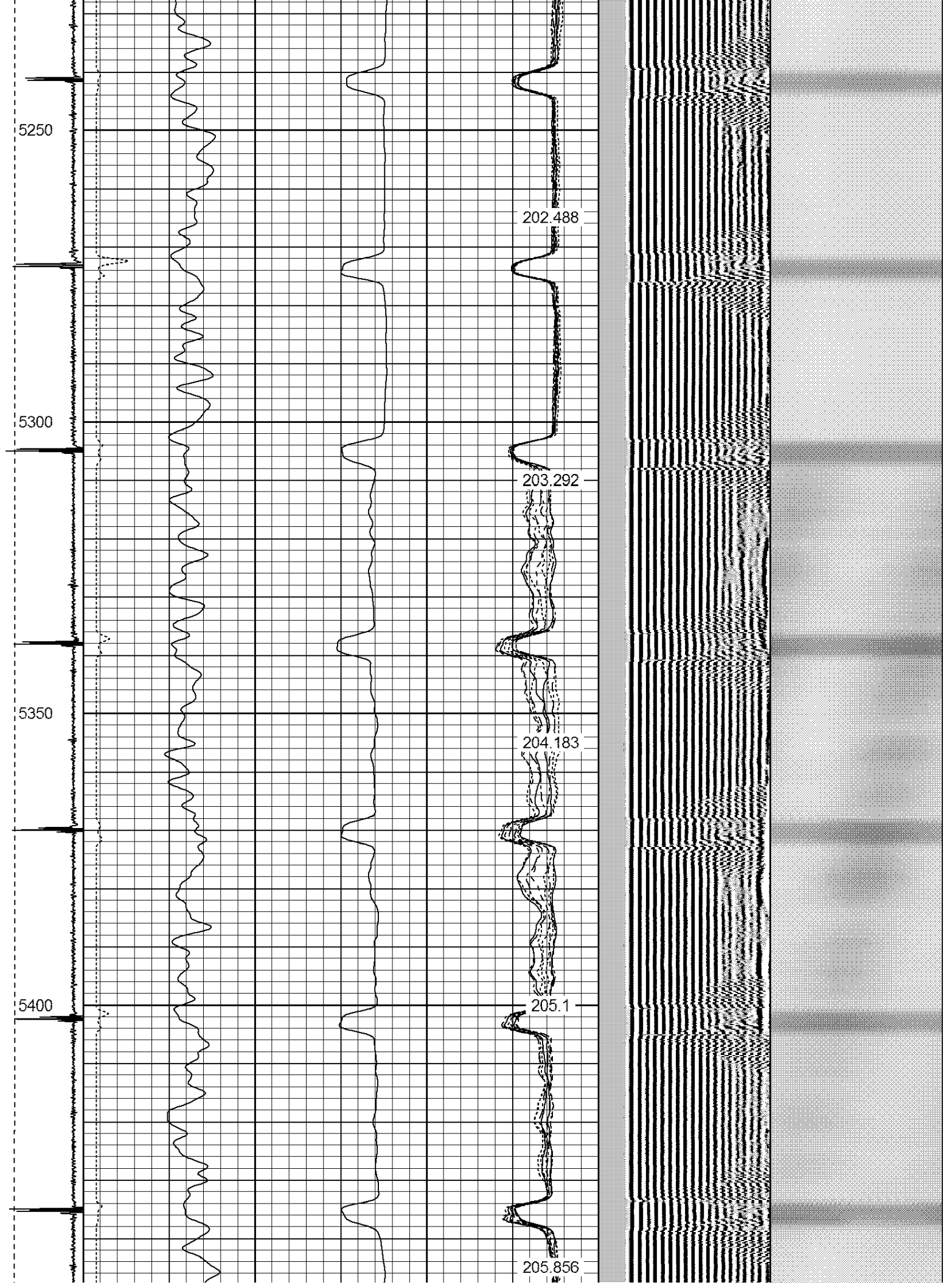
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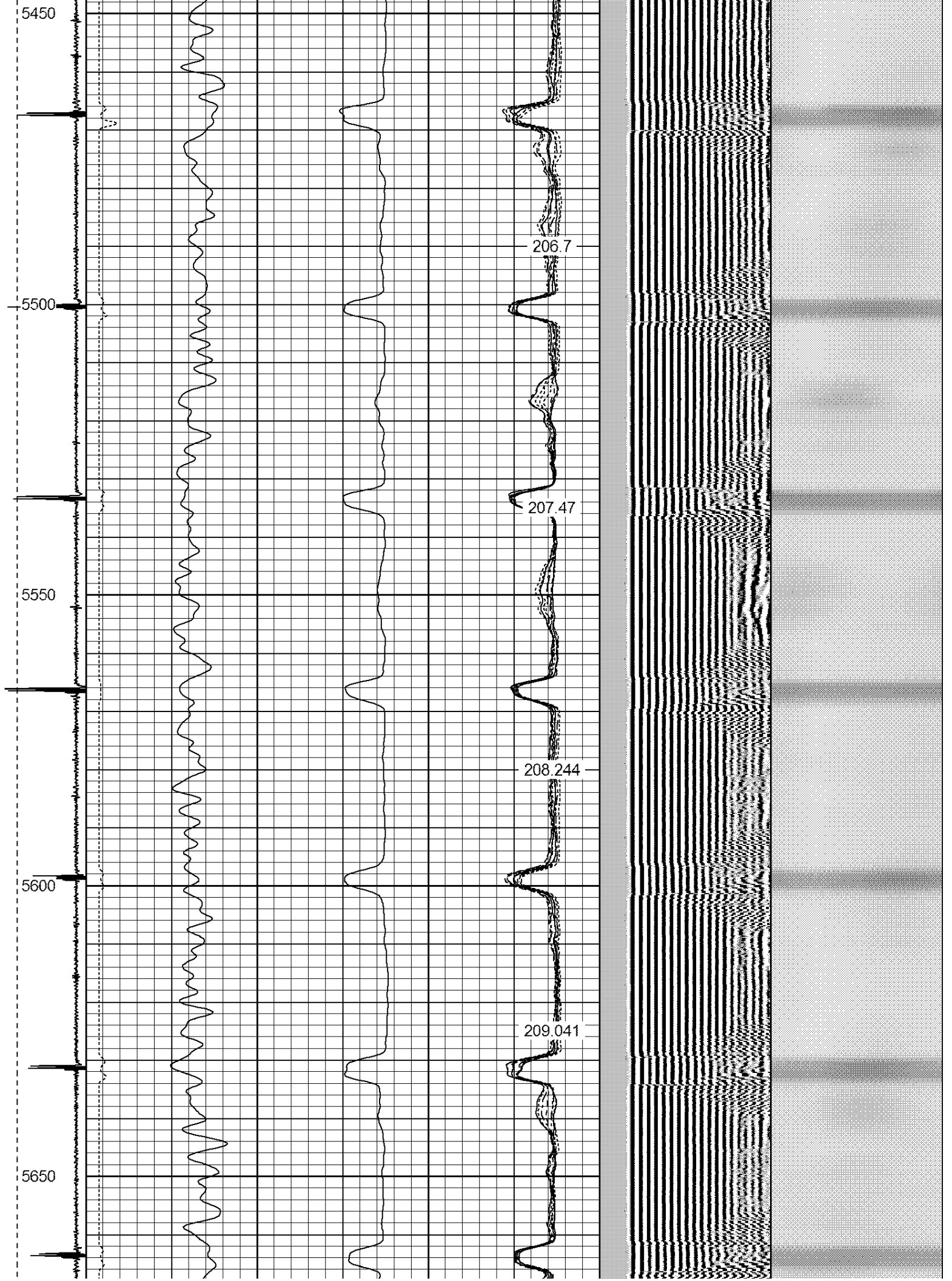


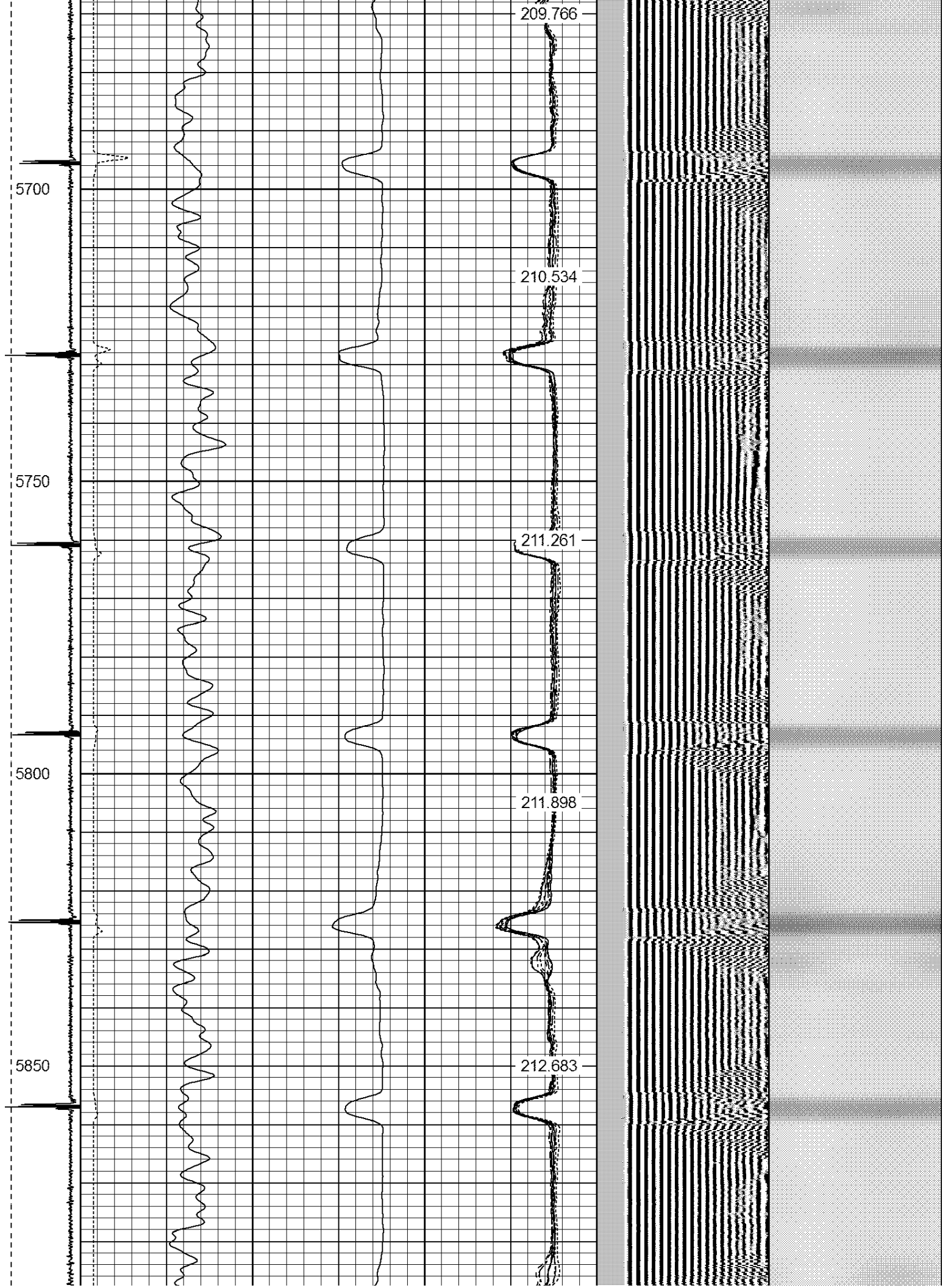




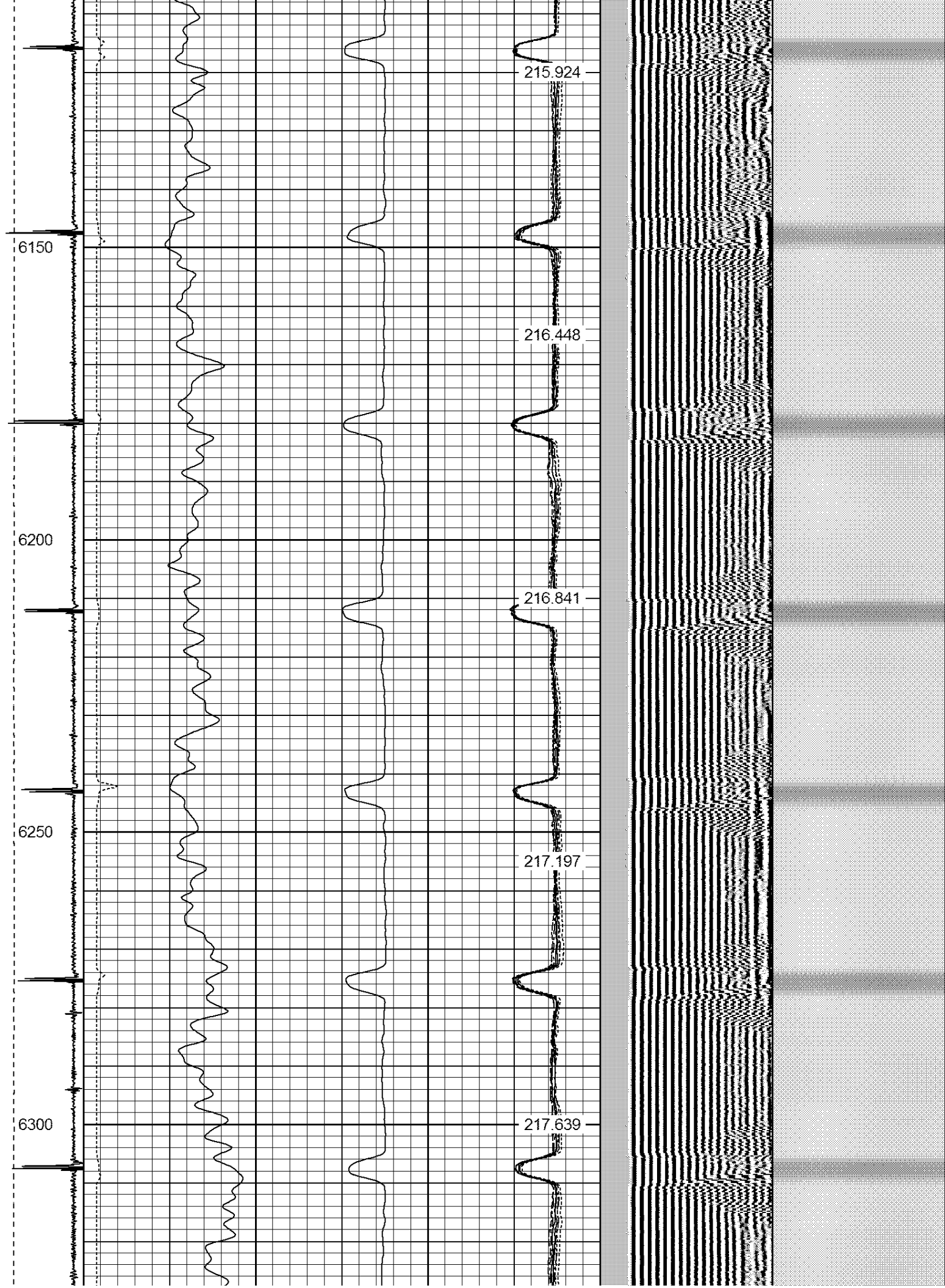


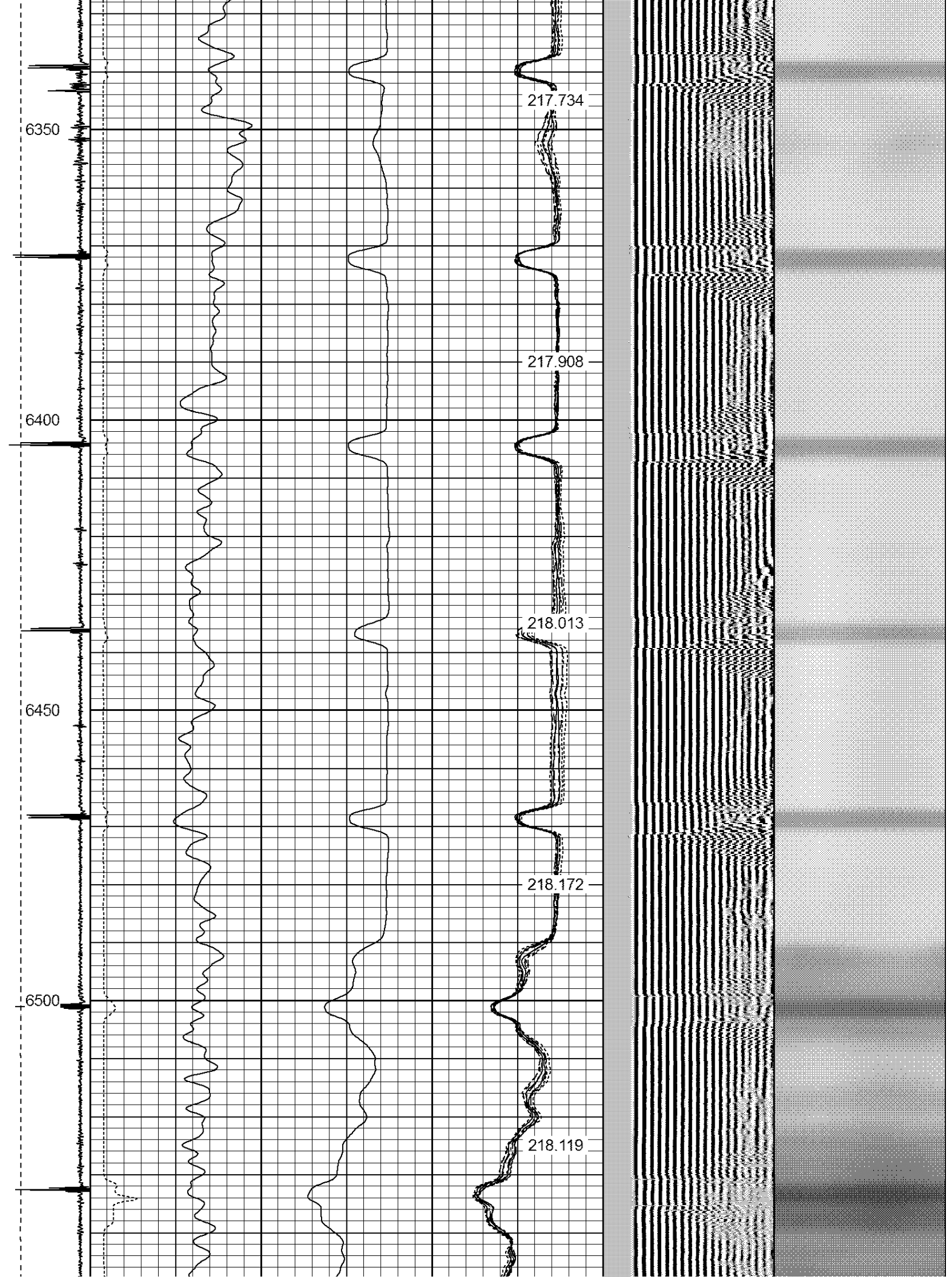




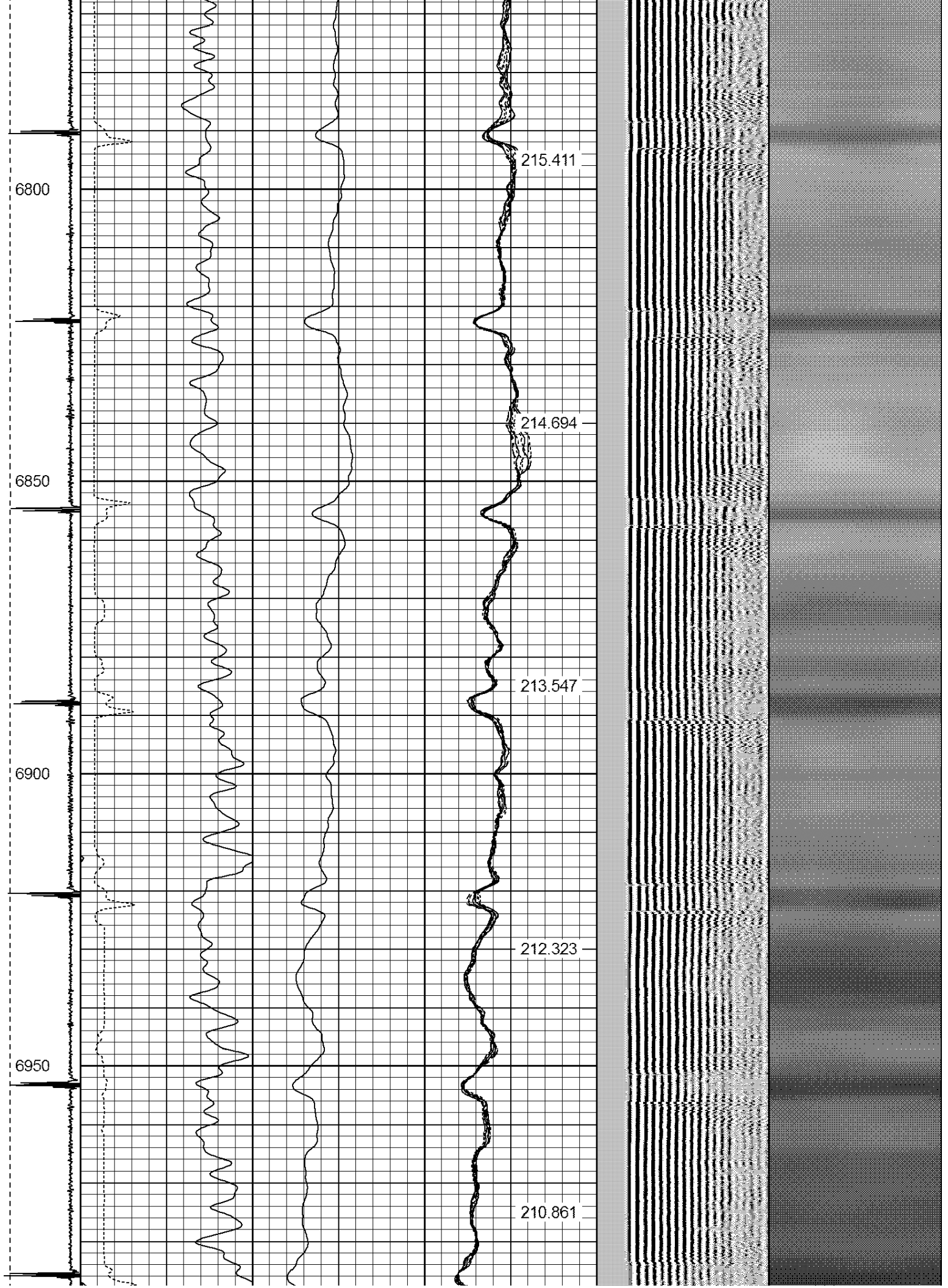


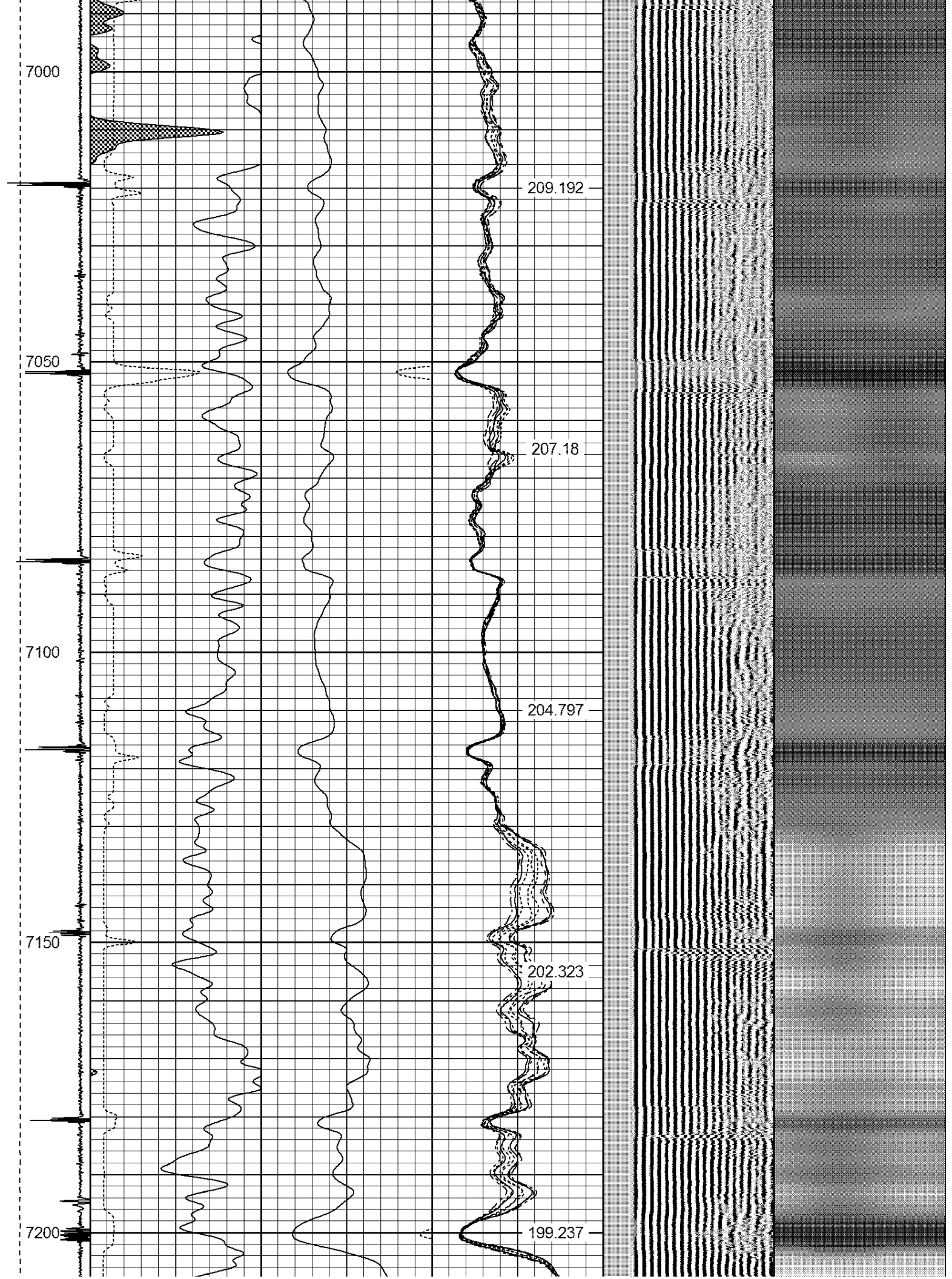


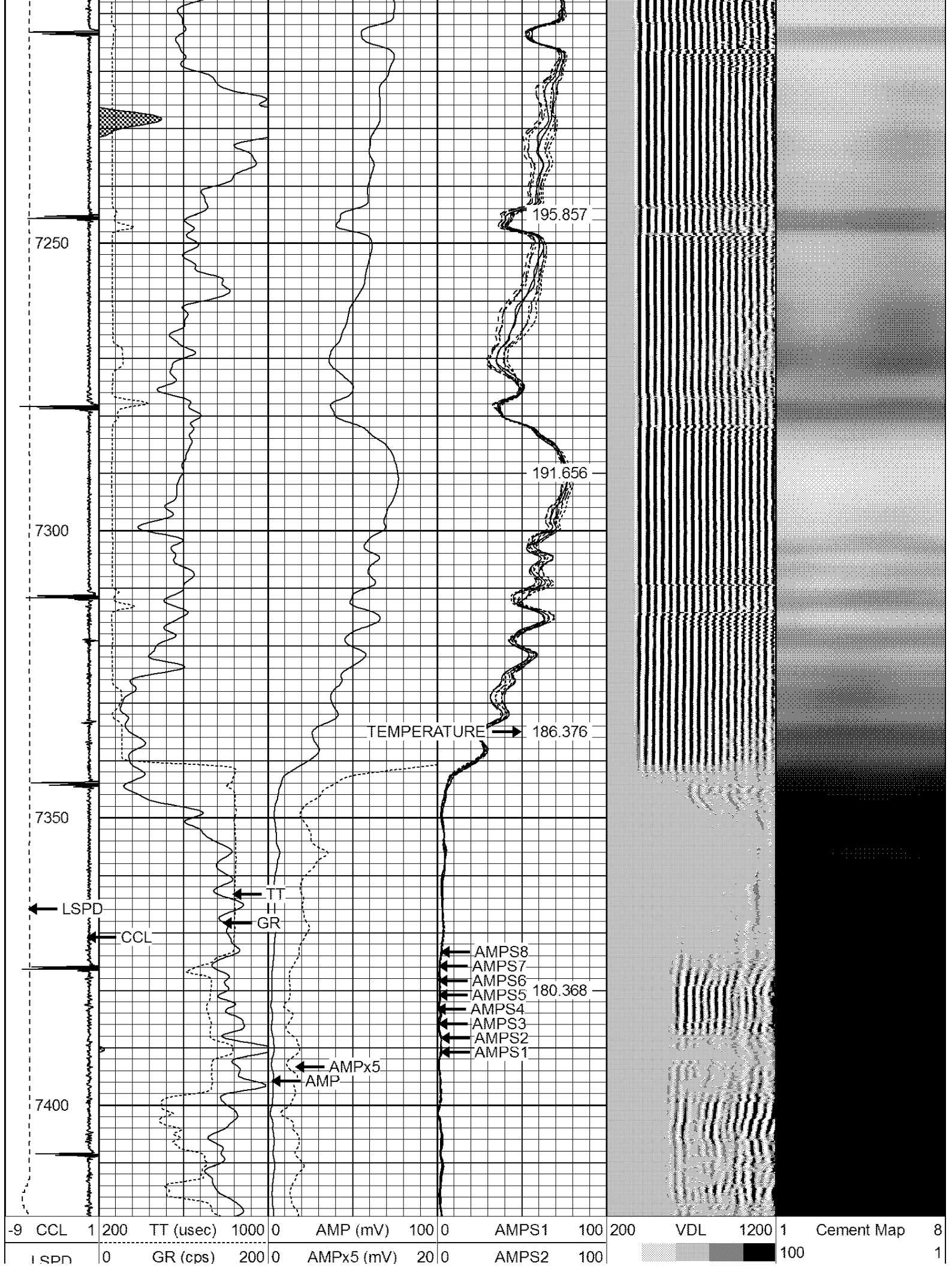












0	250	200	GR (cps)	400	0	AMPS3	100
0	250				0	AMPS4	100
					0	AMPS5	100
					0	AMPS6	100
					0	AMPS7	100
					0	AMPS8	100
						IntTemp	
						(degF)	

Calibration Report			
Database File:	anschutz 01.db		
Dataset Pathname:	pass4		
Dataset Creation:	Thu Nov 05 13:10:06 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: 2099.673 ft

Master Calibration, performed Thu Nov 05 12:57:44 2015:

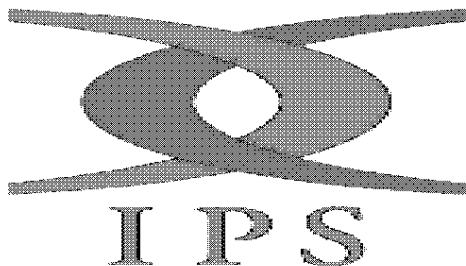
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.012	2.500	1.500	81.196	32.036	1.114
CAL	1.553	2.500				
5'	0.011	2.227	1.500	81.196	35.972	1.096
SUM						
S1	0.011	2.409	0.500	81.000	33.565	0.128
S2	0.012	2.500	0.500	81.000	32.350	0.124
S3	0.010	2.500	0.500	81.000	32.333	0.167
S4	0.010	2.500	0.500	81.000	32.335	0.162
S5	0.011	2.500	0.500	81.000	32.348	0.129
S6	0.010	2.495	0.500	81.000	32.395	0.162
S7	0.015	2.453	0.500	81.000	33.017	-0.001
S8	0.012	2.429	0.500	81.000	33.305	0.116

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 Thu Nov 05 11:45:04 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 ANSCHUTZ 1
Field WATTENBERG
County WELD
State COLORADO