CEMENT BOND LOG

Company ESP Development, Inc.
Well Eulert Ranch G #4
Field Hagaman North
County Russell
State Kansas
Country

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Field Hagaman North
County Russell
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Location: API # : 15 167 23898

604' FSL & 1007' FEL

SEC 21 TWP 11S RGE 15W

Other Services

Permanent Datum	Ground Level	Elevation	1888'
Log Measured From	KB 6' AGL		
Drilling Measured From	KB		

Elevation
K.B. 1894'
D.F. 1893'
G.L. 1888'

Date	8-19-13		
Run Number	One		
Depth Driller	3440'		
Depth Logger	3402'		
Bottom Logged Interval	3400'		
Top Log Interval	100'		
Open Hole Size	7 7/8"		
Type Fluid	Water		
Density / Viscosity	/////		
Max. Recorded Temp.	/////		
Estimated Cement Top	Surface		
Time Well Ready	Portable Mast		
Time Logger on Bottom	11:00 a.m.		
Equipment Number	T045		
Location	Hays, KS.		
Recorded By	Gus Pfanenstiel		
Witnessed By			

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8"		0	432'
Prot. String				
Production String	5 1/2"		0	
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

Thanks for using Gemini Wireline LLC Hays, KS. (785-625-1182)

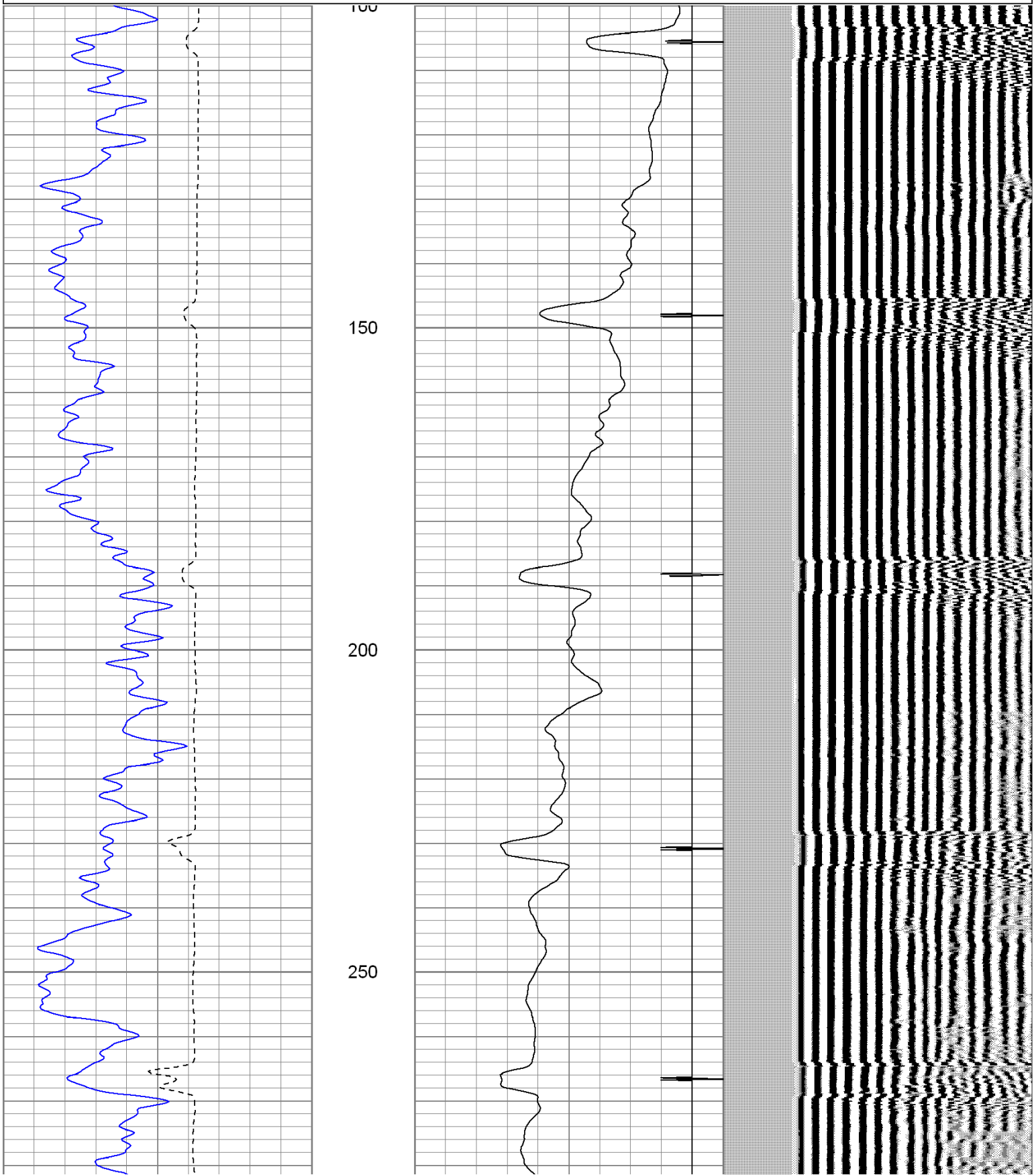
Main Pass

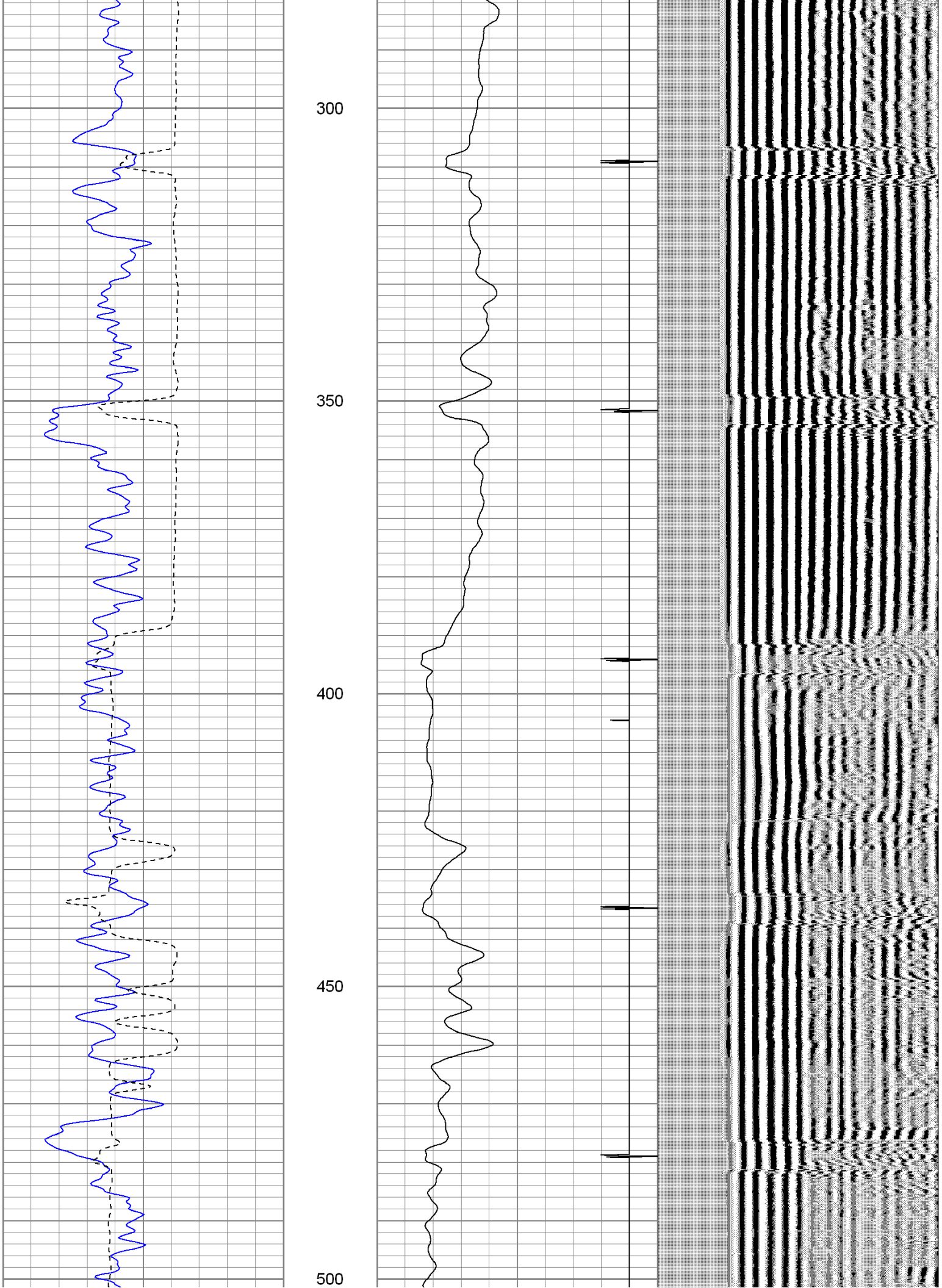
Database File:	espeulertranchg#4cbl.db
Dataset Pathname:	pass3
Presentation Format:	cblsec
Dataset Creation:	Mon Aug 19 11:05:11 2013 by Log Open-Cased 100827
Charted by:	Depth in Feet scaled 1:240

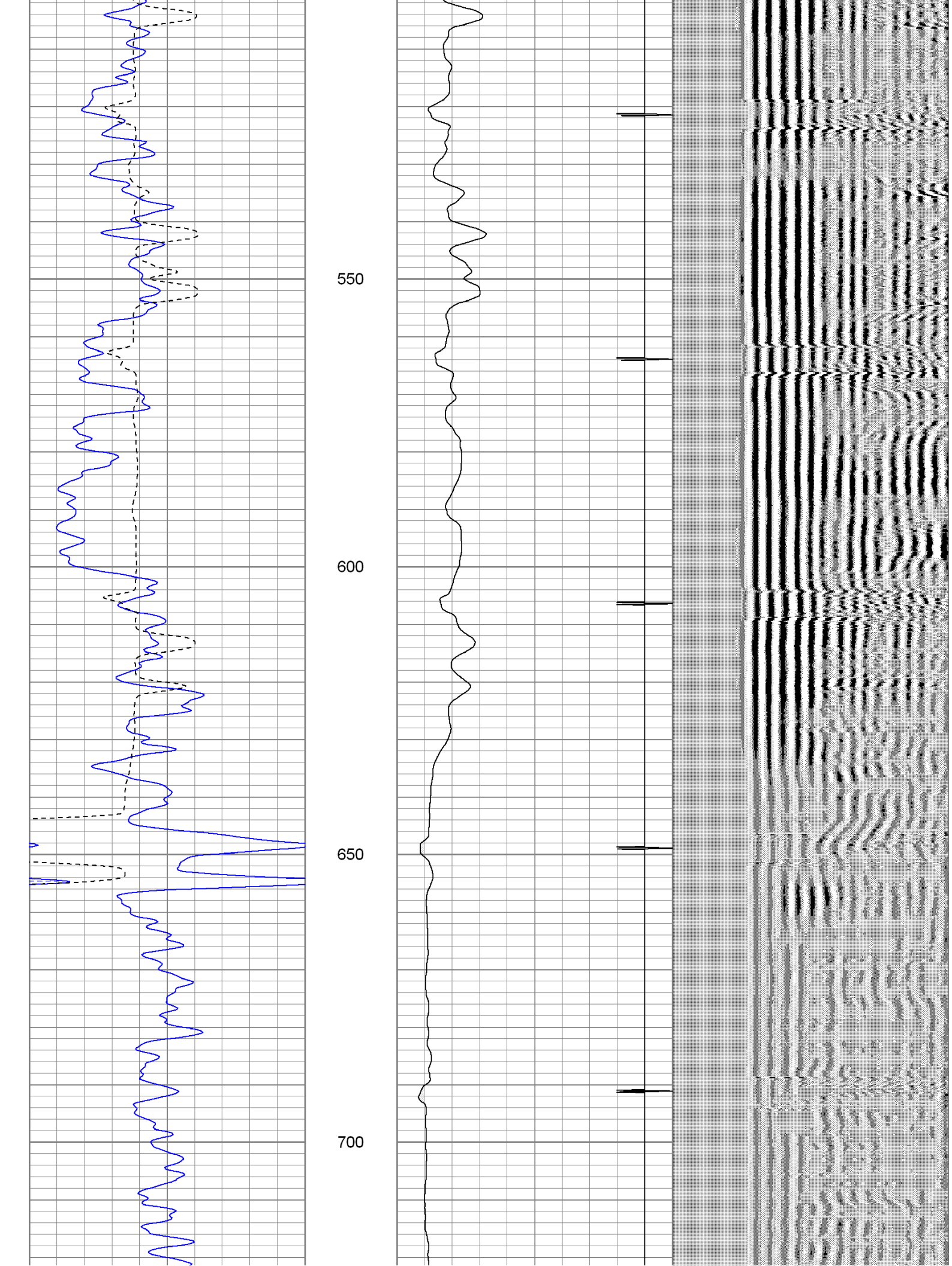
0	GR (GAPI)	150
150	GR (GAPI)	300
450	TT3 (usec)	250

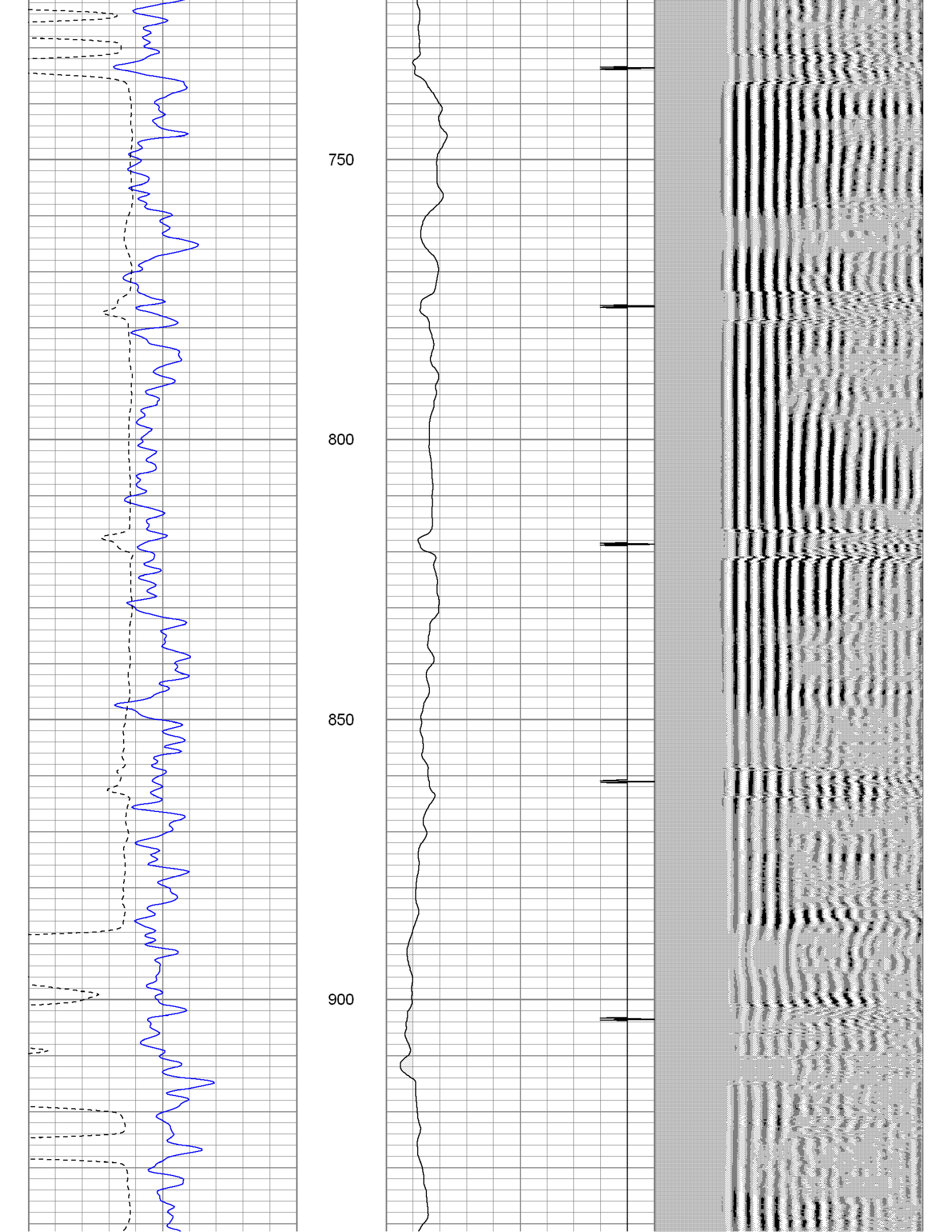
18	CCL	-2
0	AMP3 (mV)	100

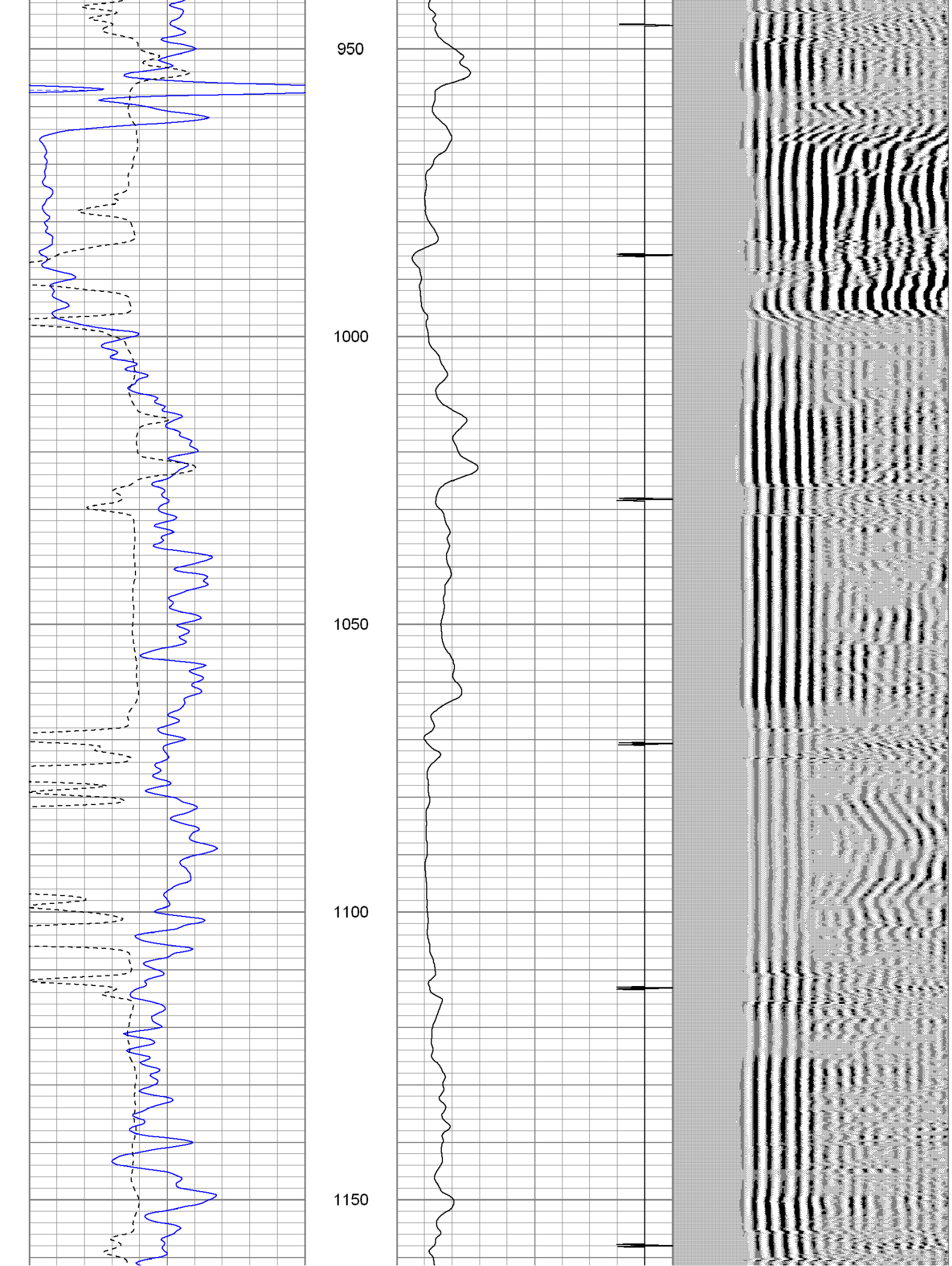
200	VDL	1200

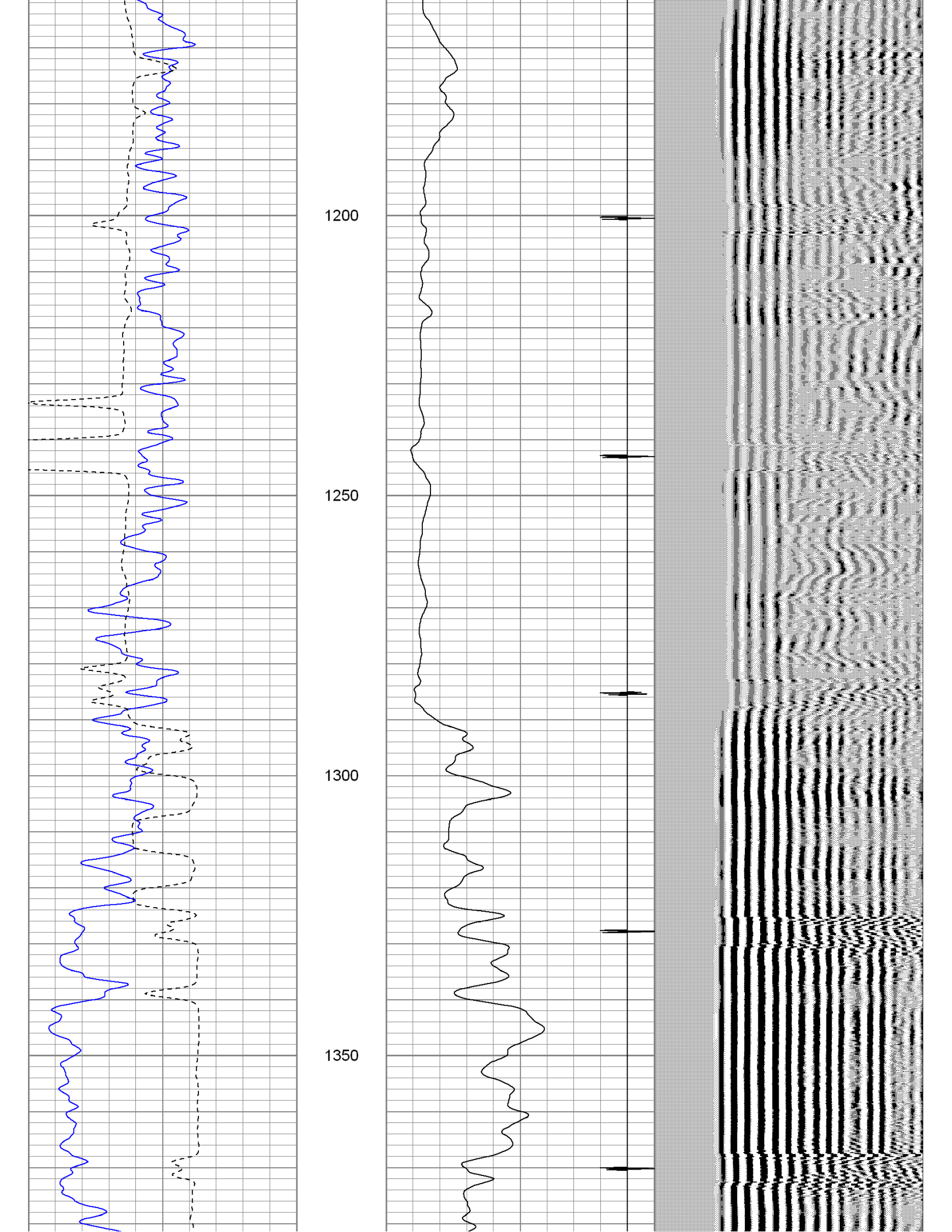


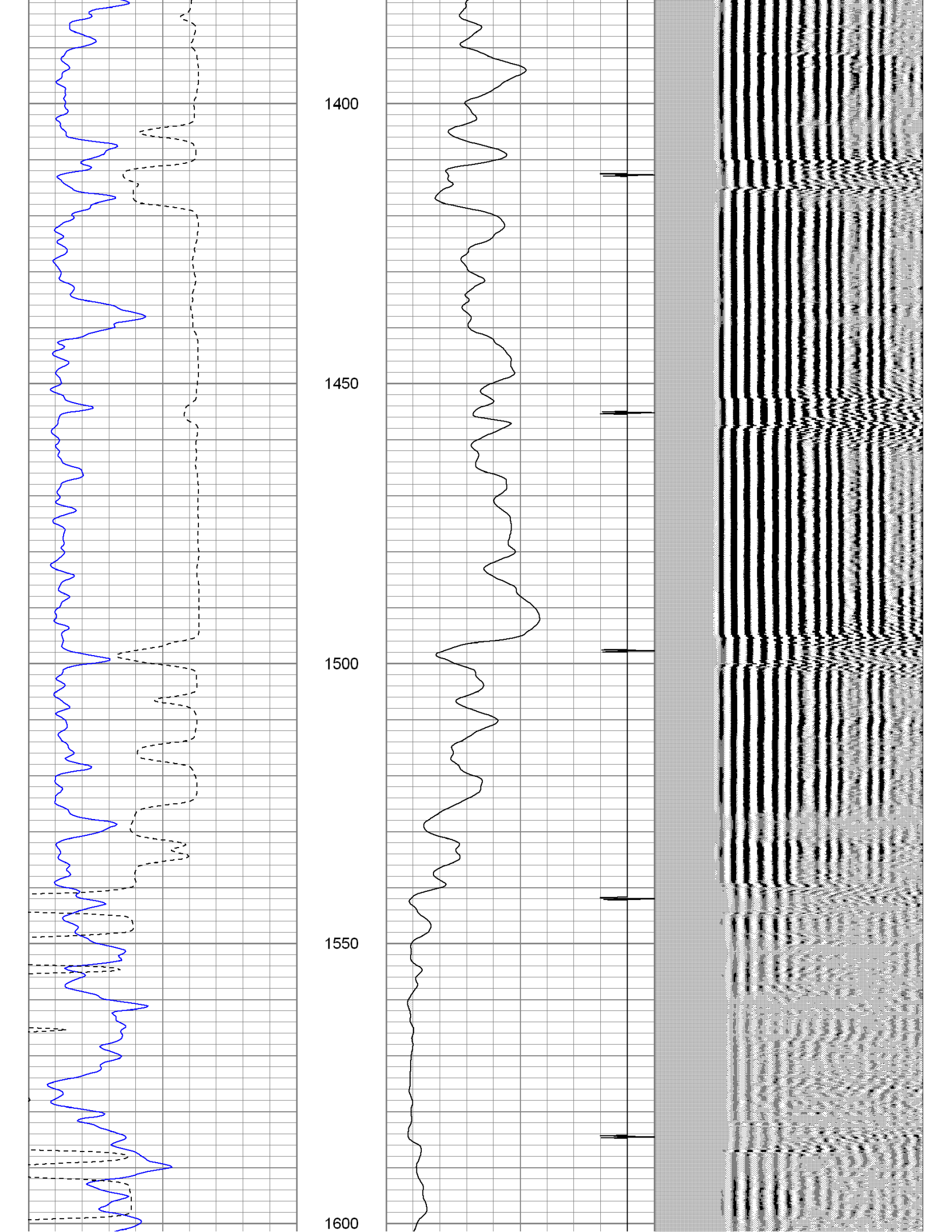

300
350
400
450
500

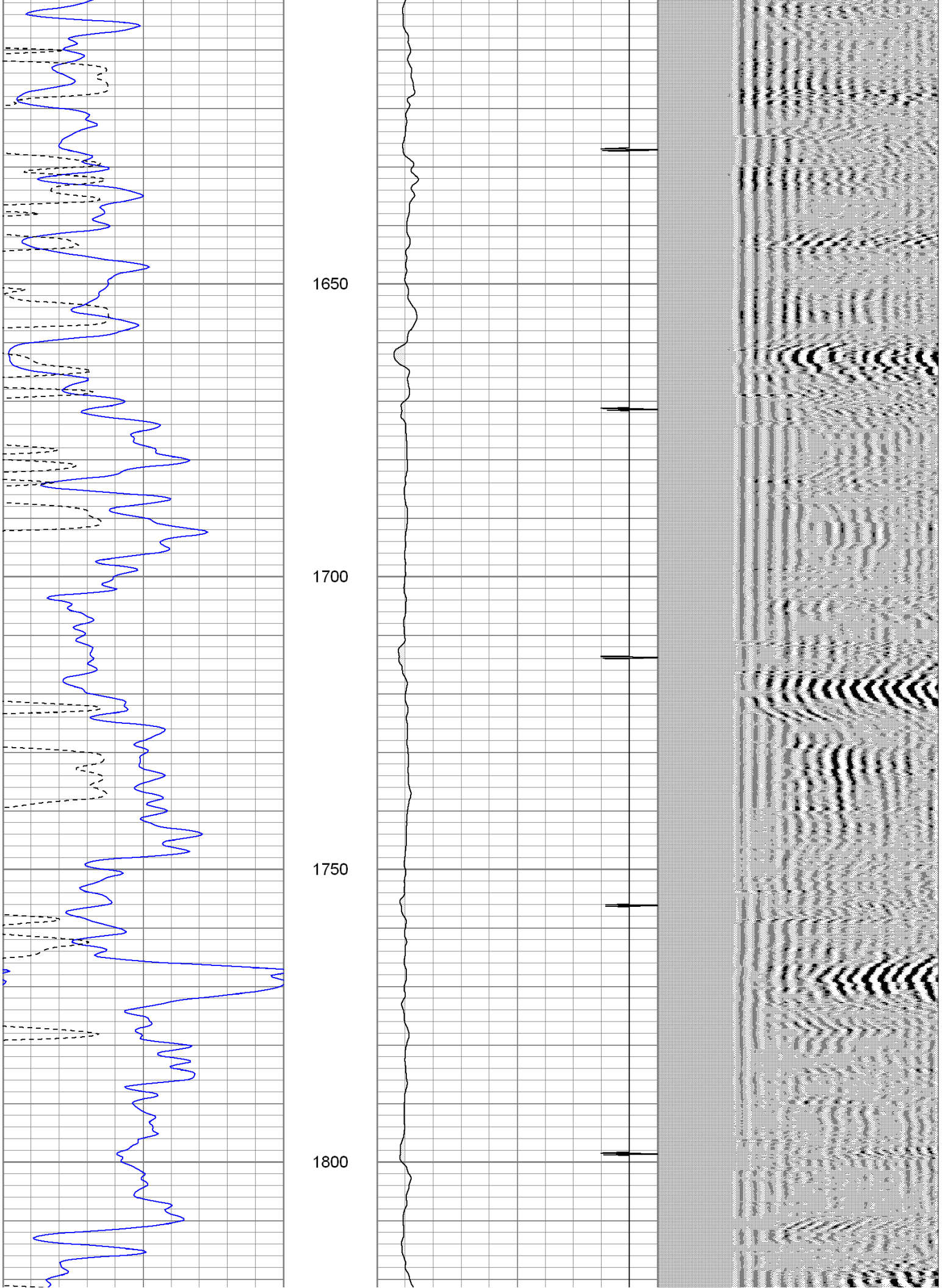

550
600
650
700

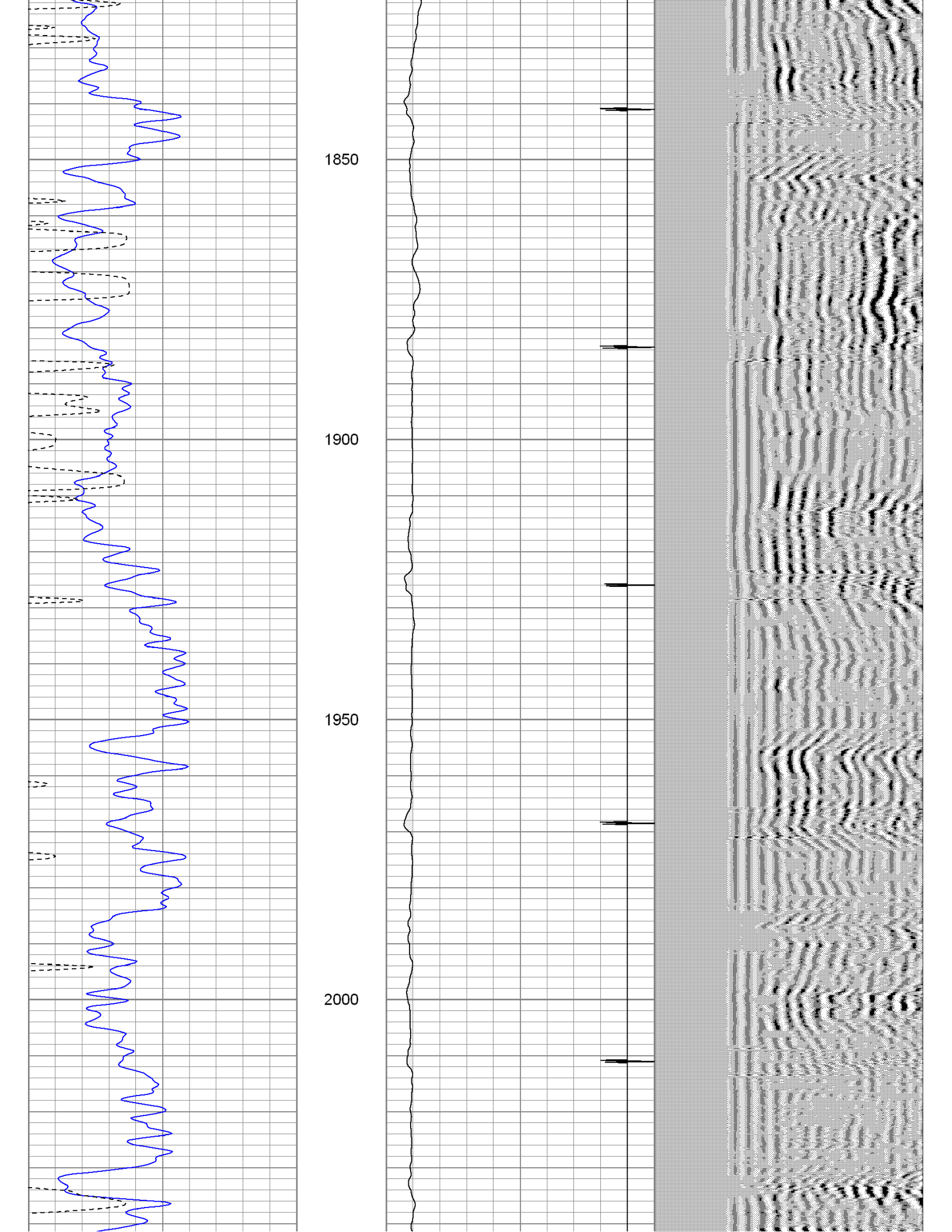

750
800
850
900

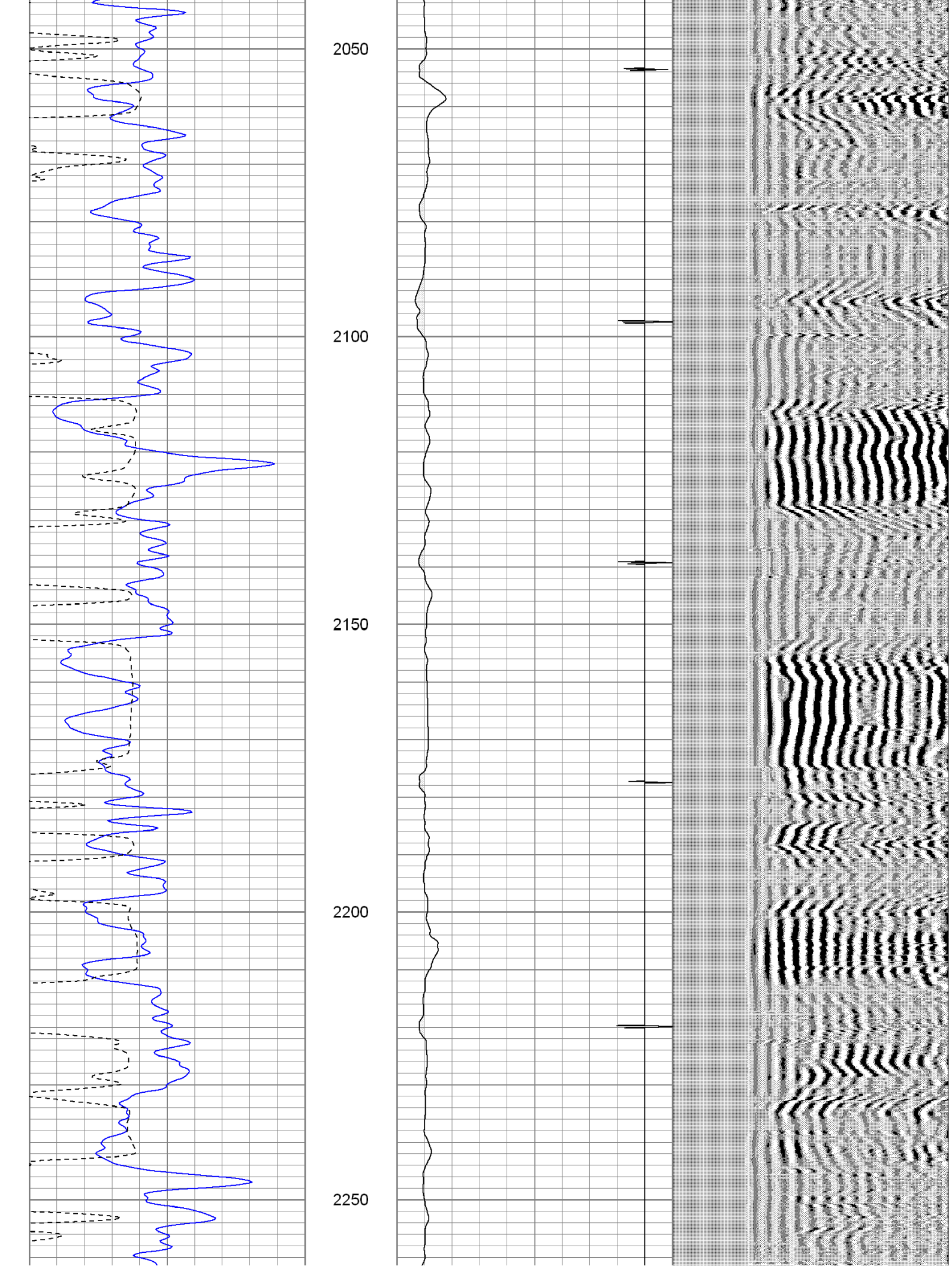

950
1000
1050
1100
1150

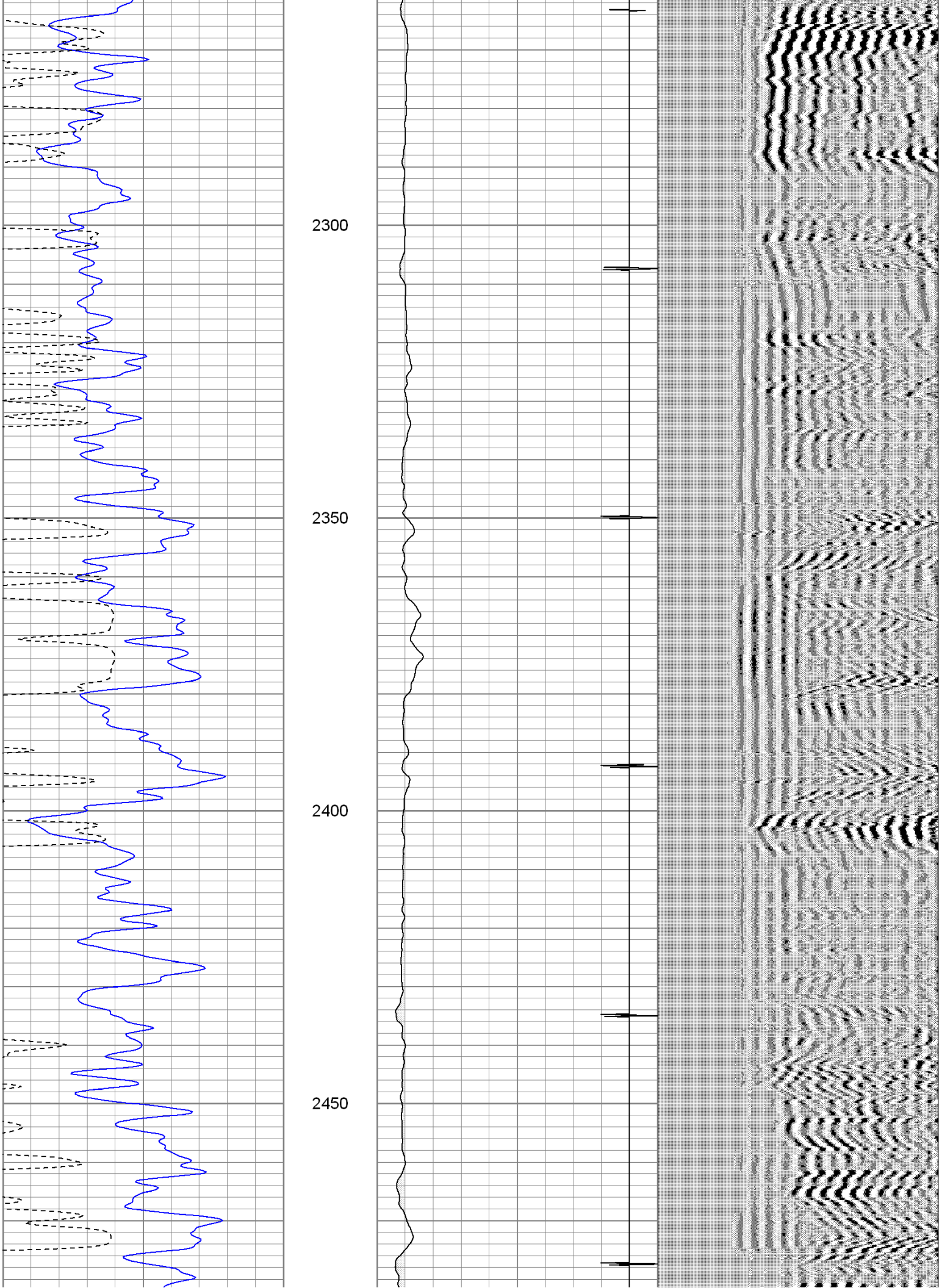

1200
1250
1300
1350

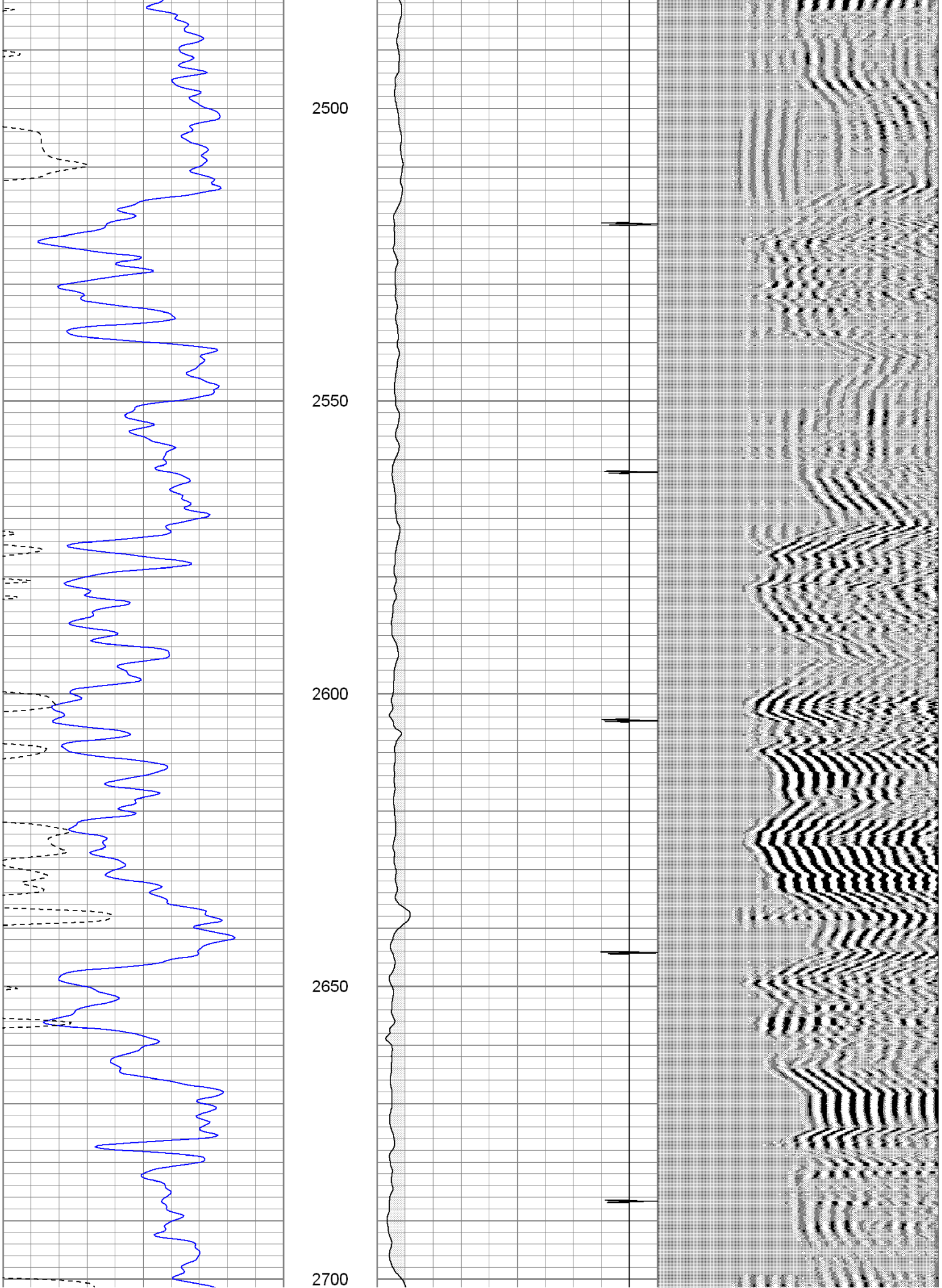

1400
1450
1500
1550
1600

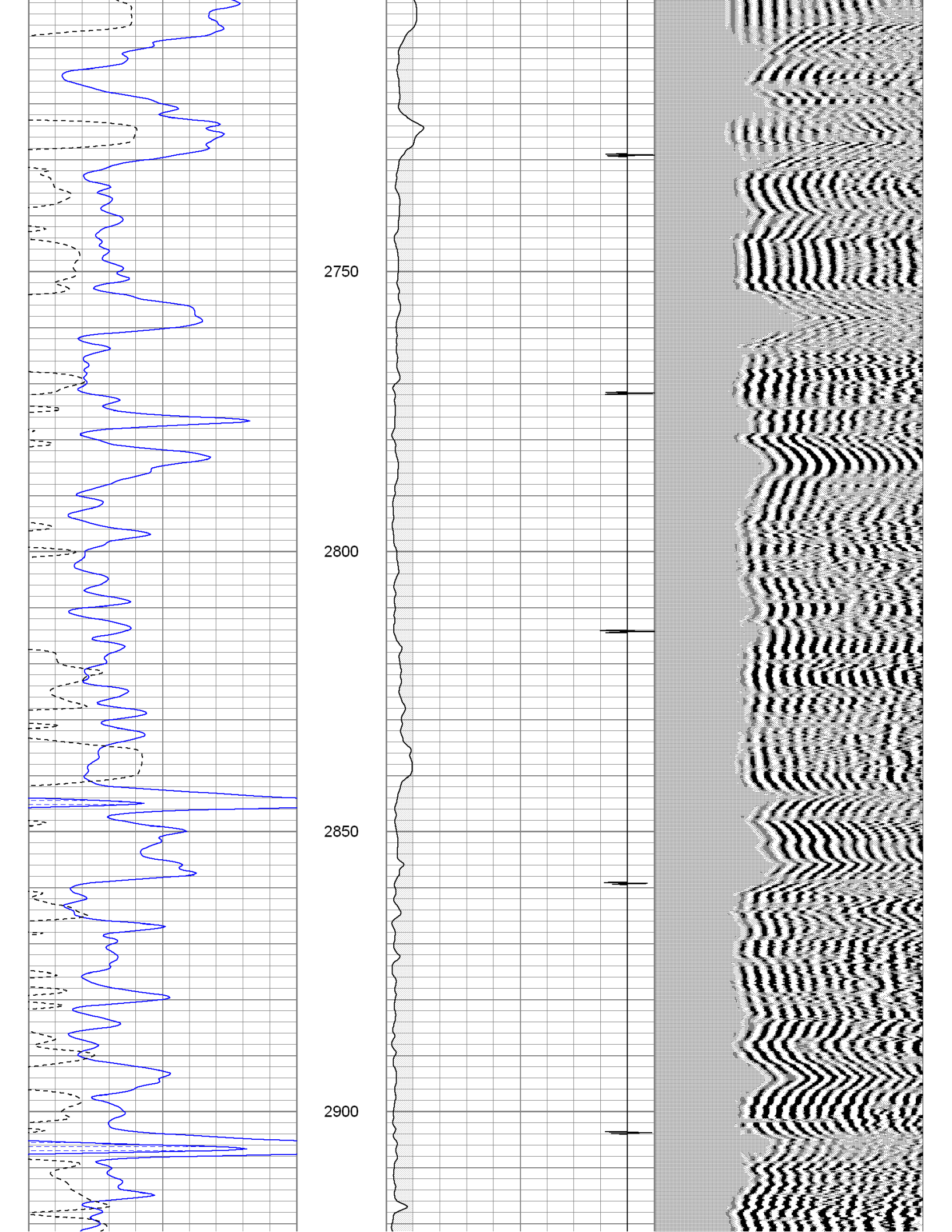

1650
1700
1750
1800

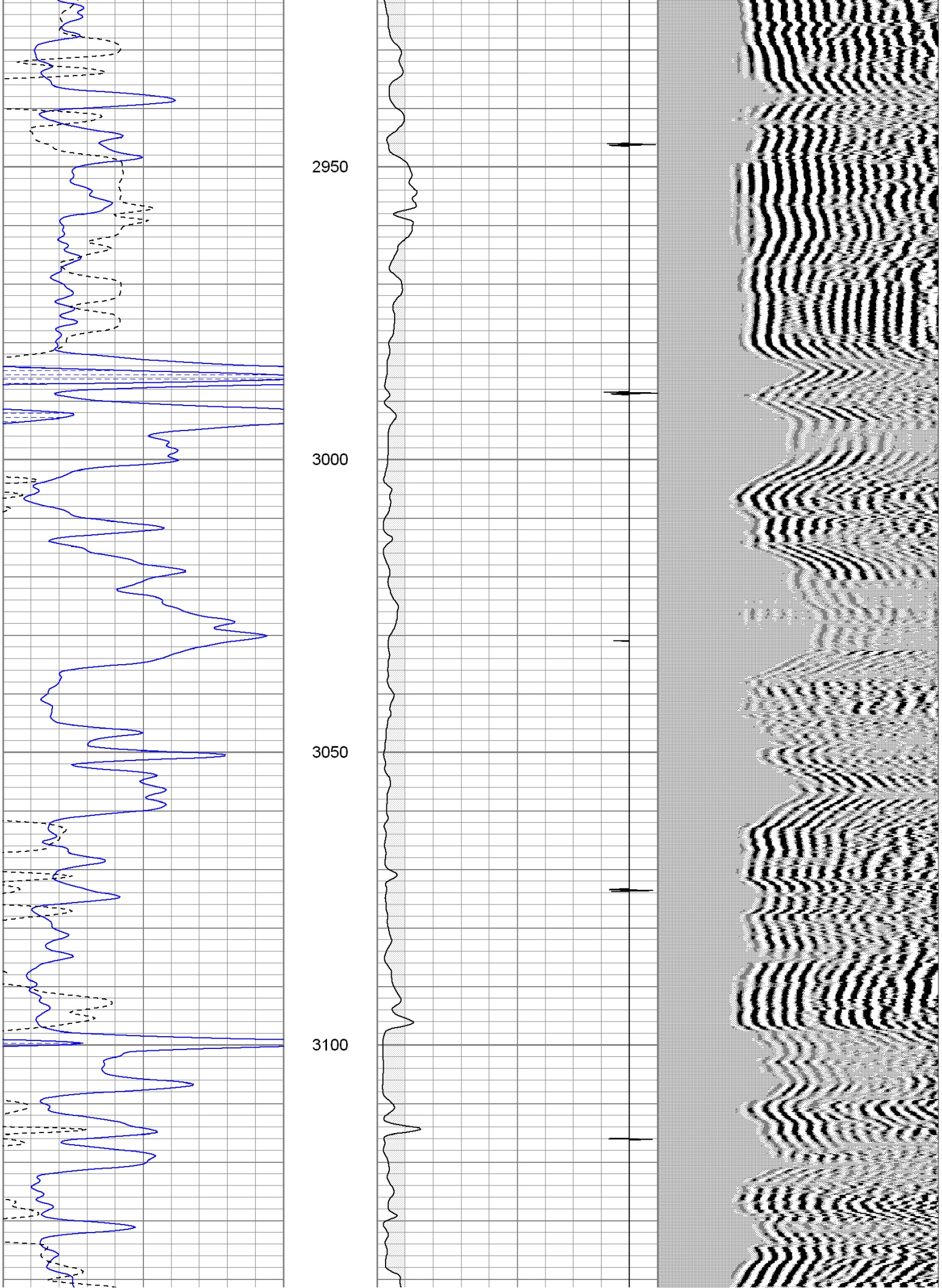

1850
1900
1950
2000

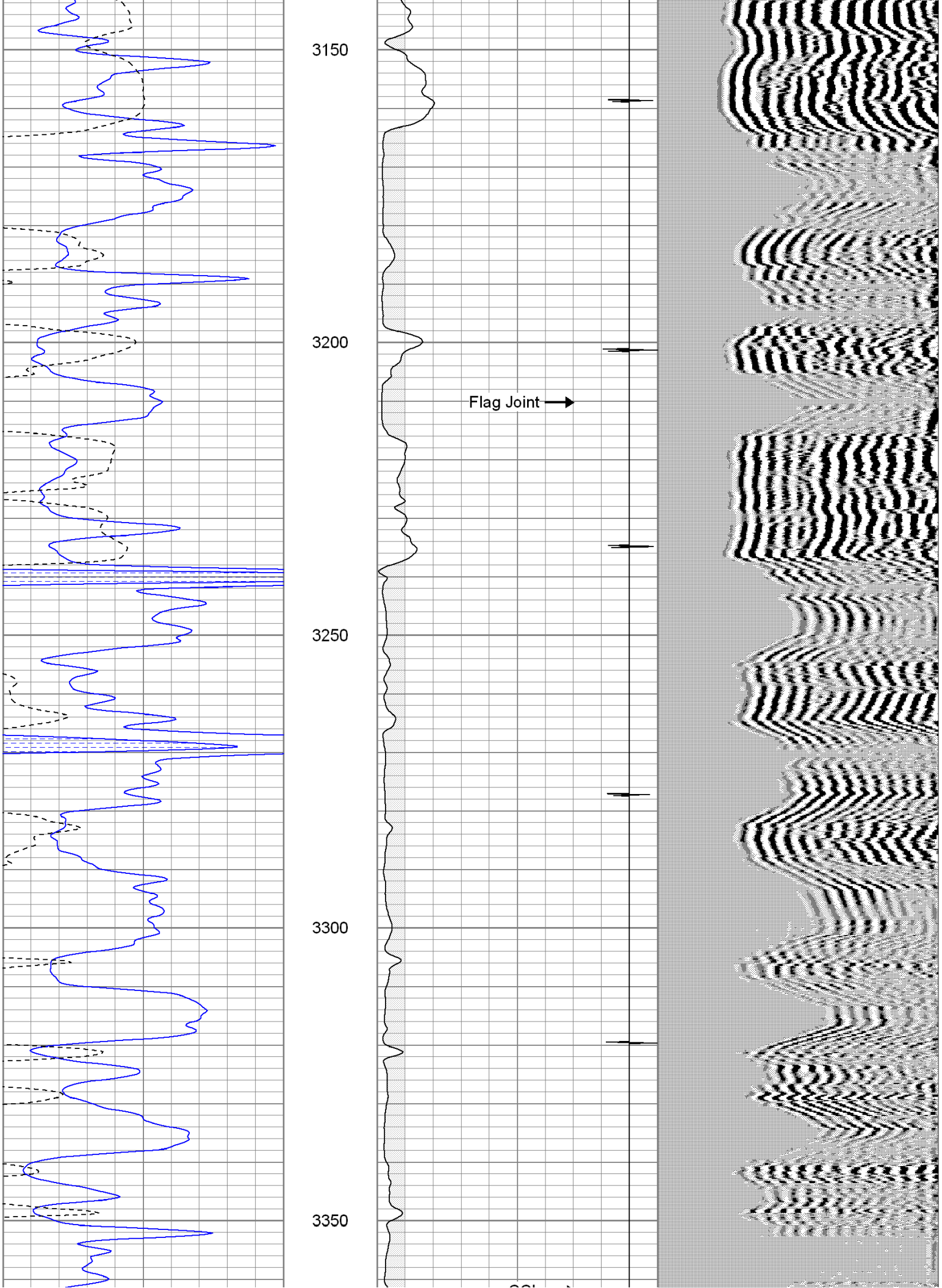

2050
2100
2150
2200
2250

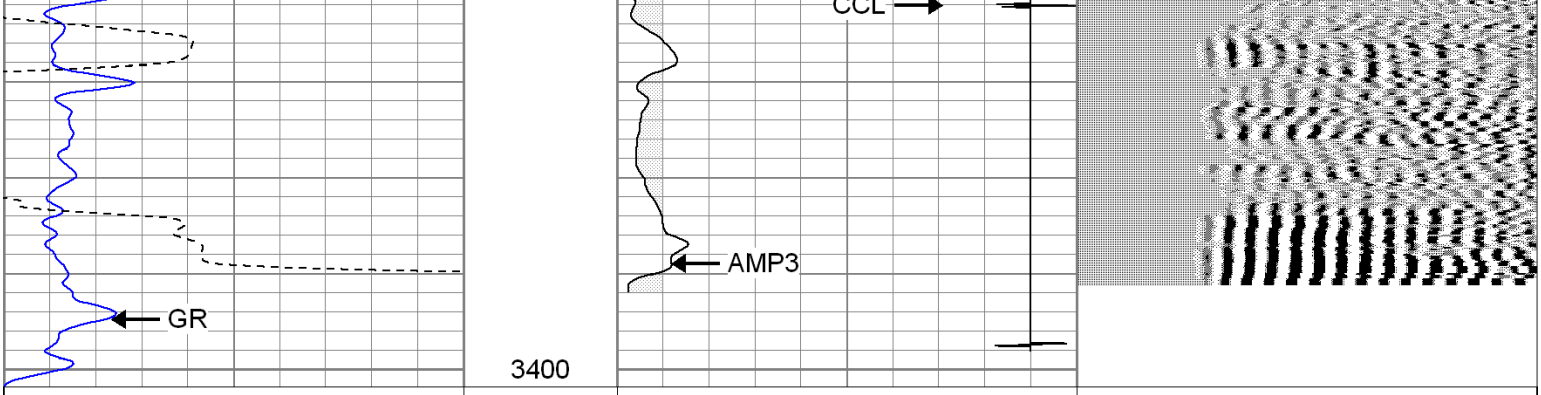

2300
2350
2400
2450


2500
2550
2600
2650
2700


2750
2800
2850
2900


2950
3000
3050
3100


3150
3200
Flag Joint
3250
3300
3350

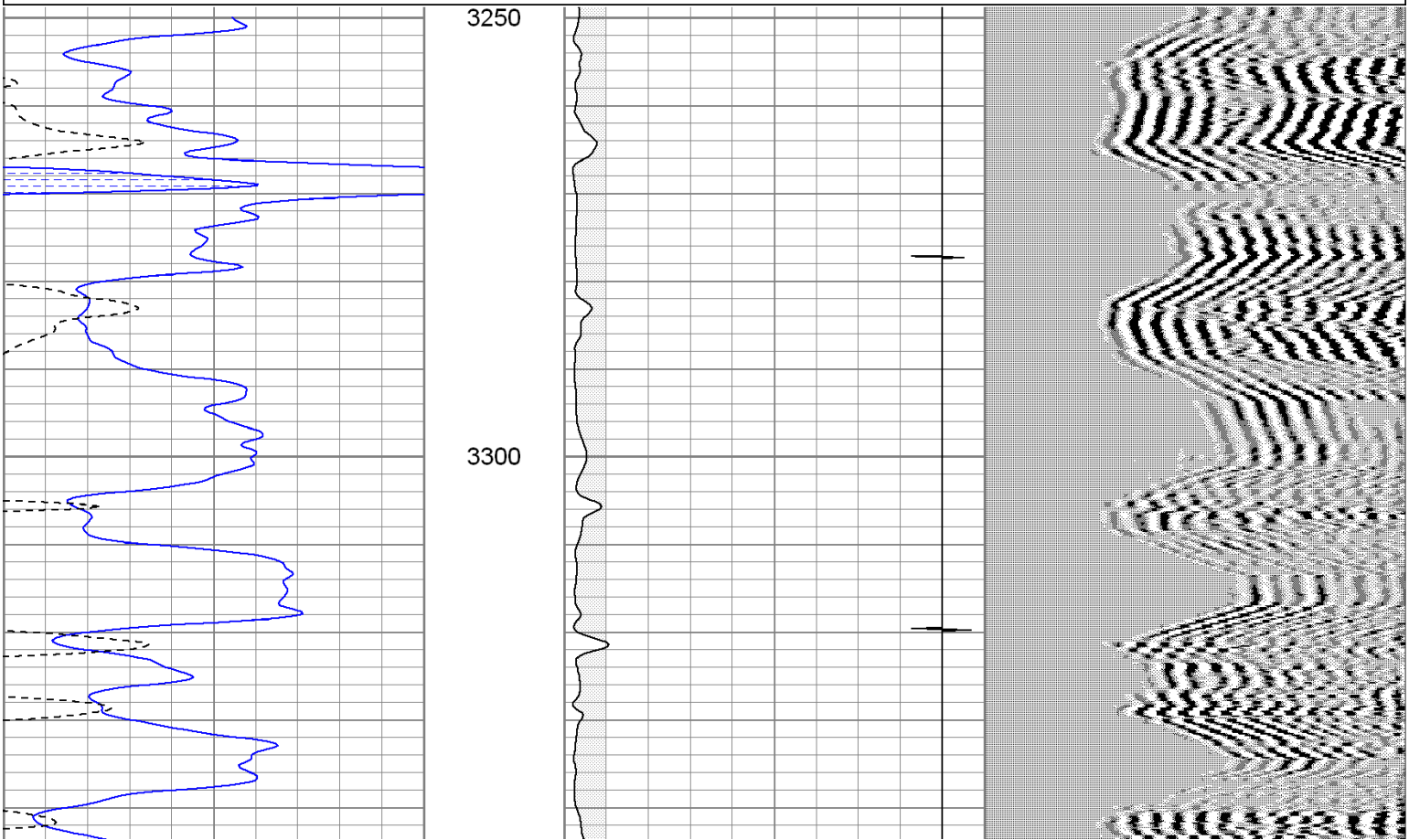


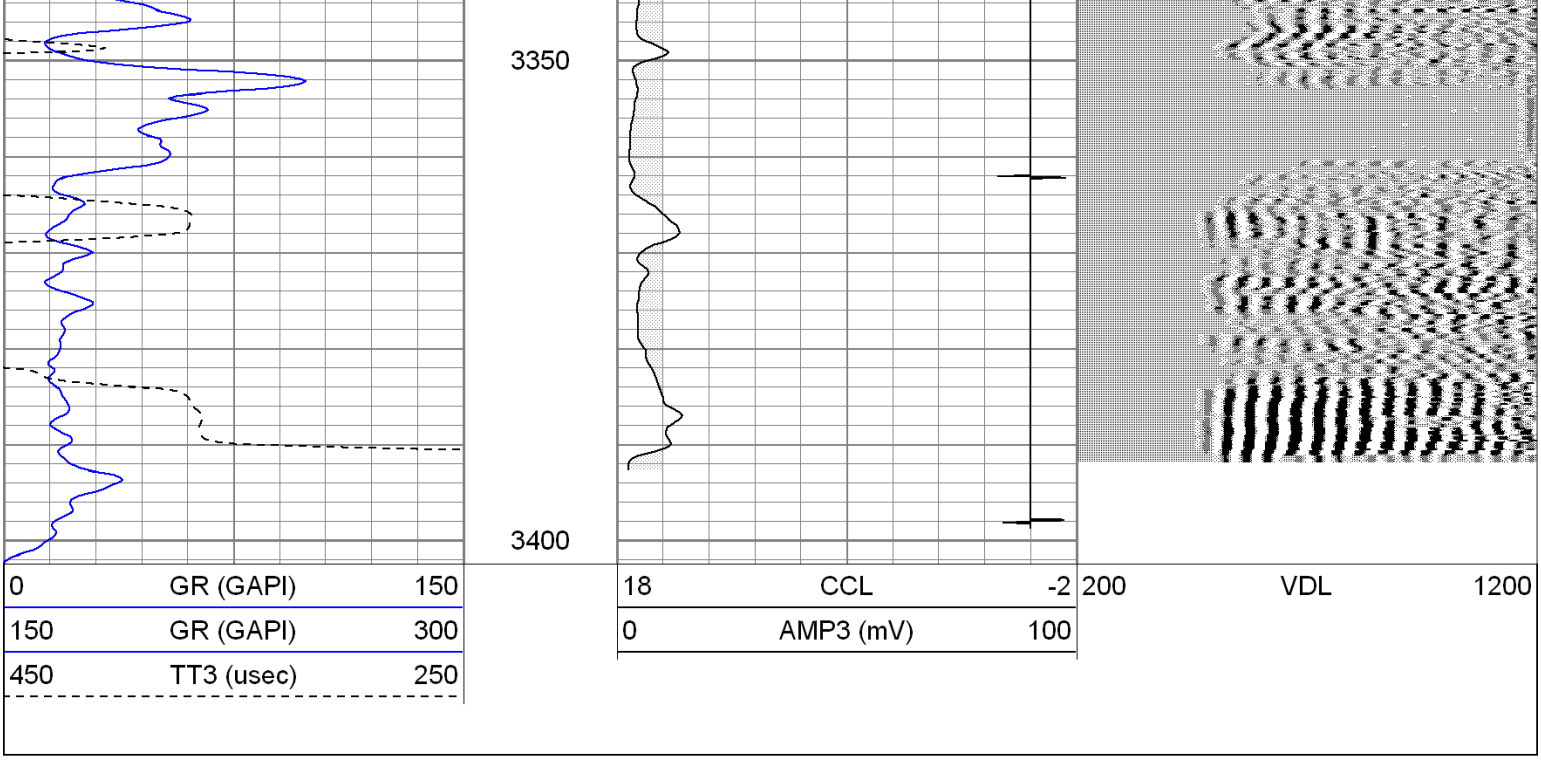
0	GR (GAPI)	150	18	CCL	-2	200	VDL	1200
150	GR (GAPI)	300	0	AMP3 (mV)	100			
450	TT3 (usec)	250						

Repeat Pass

Database File:	espeulertranchg#4cbl.db
Dataset Pathname:	pass2
Presentation Format:	cblsec
Dataset Creation:	Mon Aug 19 11:00:33 2013 by Log Open-Cased 100827
Charted by:	Depth in Feet scaled 1:240

0	GR (GAPI)	150	18	CCL	-2	200	VDL	1200
150	GR (GAPI)	300	0	AMP3 (mV)	100			
450	TT3 (usec)	250						





Calibration Report

Database File: espeulertranchg#4cbl.db
Dataset Pathname: pass2
Dataset Creation: Mon Aug 19 11:00:33 2013 by Log Open-Cased 100827

Gamma Ray Calibration Report

Serial Number:	081014	
Tool Model:	275D_INC	
Performed:	Thu Aug 01 09:32:11 2013	
Calibrator Value:	200.0	GAPI
Background Reading:	50.0	cps
Calibrator Reading:	250.0	cps
Sensitivity:	0.8000	GAPI/cps

Inclinometer Calibration Report

Performed: Thu Aug 01 08:19:26 2013

	Low Read.	High Read.	Low Ref.	High Ref.		Gain	Offset
X Accelerometer	-3589.40	3580.00	-1.00	1.00	gee	0.00	0.00
Y Accelerometer	-3673.00	3520.20	-1.00	1.00	gee	0.00	0.02
Z Accelerometer	24.60	3577.40	0.00	1.00	gee	0.00	-0.01
RB						1.00	0.00

Segmented Cement Bond Log Calibration Report

Serial Number:	080321
Tool Model:	ProbeRadial

Calibration Casing Diameter:	5.500	in
Calibration Depth:	3578.012	ft

Master Calibration, performed Thu Aug 01 08:18:48 2013:

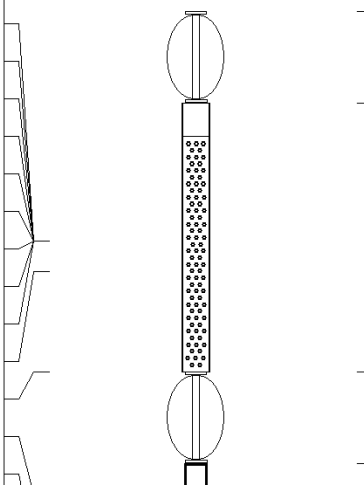
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.012	1.059	1.700	71.921	65.525	2.498
CAL	-0.013	1.043				
5'	-0.013	1.119	1.000	71.921	62.697	1.786
SUM						
S1	-0.012	1.056	0.000	72.000	67.443	0.781
S2	-0.012	1.063	0.000	72.000	66.958	0.821
S3	-0.012	1.064	0.000	72.000	66.937	0.797
S4	-0.012	1.051	0.000	72.000	67.776	0.789
S5	-0.012	1.054	0.000	72.000	67.532	0.815
S6	-0.012	1.047	0.000	72.000	67.976	0.847
S7	-0.012	1.037	0.000	72.000	68.607	0.856
S8	-0.012	1.037	0.000	72.000	68.616	0.840

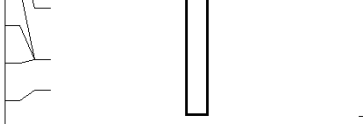
Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.013	1.043	1.000	0.000

Air Zero Calibration, performed Fri Aug 31 08:11:04 2012:

	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

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
WVF3FT	11.75					
WVFS1	11.75		X	3.00	1.69	25.00
WVFS2	11.75					
WVFS3	11.75					
WVFS4	11.75					
WVFS5	11.75					
WVFS6	11.75		SCBL-ProbeRadial (080321) Probe 2 3/4 RadII	8.75	2.75	106.50
WVFS7	11.75					
WVFS8	11.75					
WVF5FT	10.75					
WVFCAL	7.50		X	3.00	1.69	25.00
CCL	3.50					
ACCX	1.83					

ACCY ACCZ GR	1.83 1.83 0.83		GR-275D_INC (081014) 2-3/4" GR-CCL with Inclination	4.50	2.75	50.00

Dataset: espeulertranchg#4cbl.db: field/well/run1/pass2
Total Length: 19.25 ft
Total Weight: 206.50 lb
O.D. 2.75 in