



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company				Whiting Oil & Gas Corporation			
Well				Razor 26J-2633L			
Field				Wildcat			
County				Weld			
State				Colorado			
Location:				API # : 05-123-37495			
SHL: 2251' FSL & 2047' FEL				Other Services			
SEC 26 TWP 10N RGE 58W				---			
Permanent Datum				Ground Level			
Log Measured From				Kelly Bushing			
Drilling Measured From				Kelly Bushing			
Elevation				4728'			
K.B. 4745				D.F. ---			
G.L. 4728							
Date				08-31-2013			
Run Number				One			
Depth Driller				9422 FT			
Depth Logger				9313 FT			
Bottom Logged Interval				9311 FT			
Top Log Interval				Surface			
Open Hole Size				9.625			
Type Fluid				Water			
Density / Viscosity				8.34 lbm/gal			
Max. Recorded Temp.				350			
Estimated Cement Top				150 FT			
Time Well Ready				3:00pm			
Time Logger on Bottom				4:15 pm			
Equipment Number				HD-0134			
Location				Fort Lupton, CO			
Recorded By				Patrick Grimes			
Witnessed By				Bryan Olmstead			
Borehole Record				Tubing Record			
Run Number				Bit			
From				To			
Size				Weight			
From				To			
Casing Record				Size (in)			
Surface Casing				9-5/8"			
Intermediate #1				5.5"			
Intermediate #2				17#			
Liner				Grade			
				J-55			
				L-80			
				Top			
				Surface			
				Surface			
				Bottom			
				1600 FT			
				9403 FT			

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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

Radial Cement Bond Log is correlated to:
Schlumberger Platform Express/ Caliper/ Cement Volume Log
Run RCBL from TD to surface.
RCBL logged with 1500 PSI surface induced pressure.
Log split for correlation purposes
Est top of Cement 150'

Thank you for choosing FMC Technologies Completion Services Inc.



Main Pass: Upper @ 1500psi

Database File: 05-123-37495_whiting razor 26j-2633l_rcbl_08-31-13.db

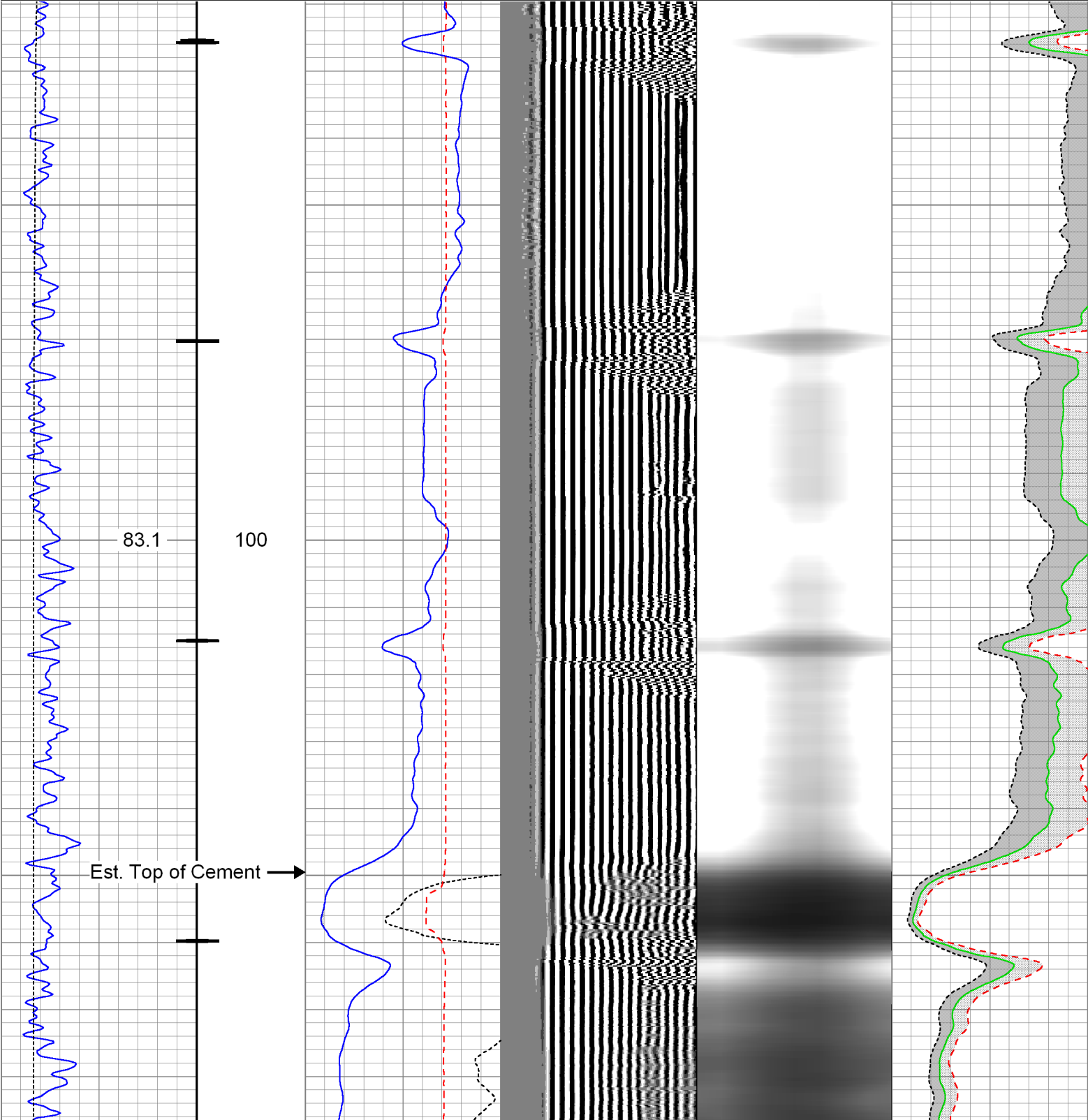
Dataset Pathname: pass8

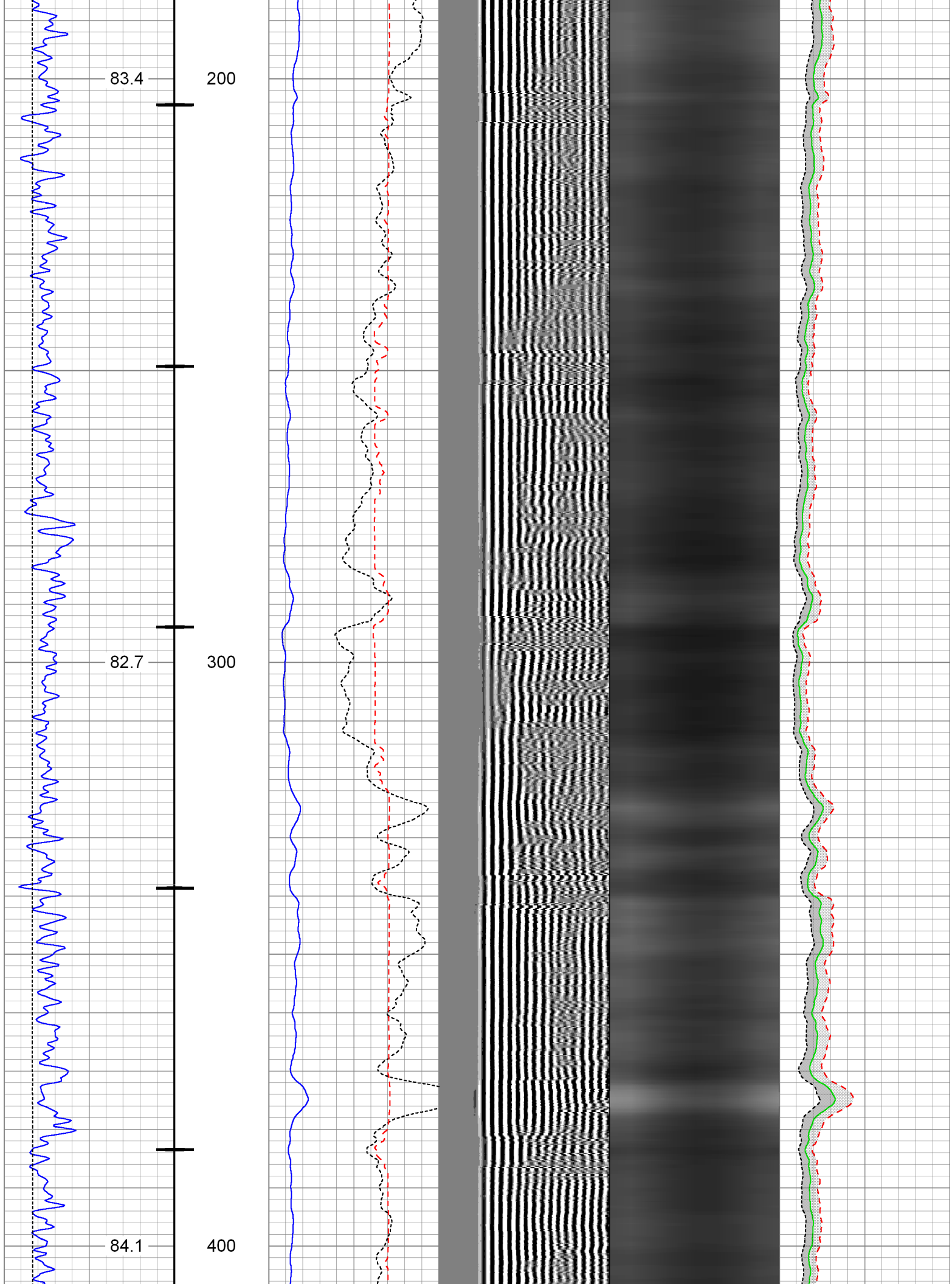
Presentation Format: rbt007

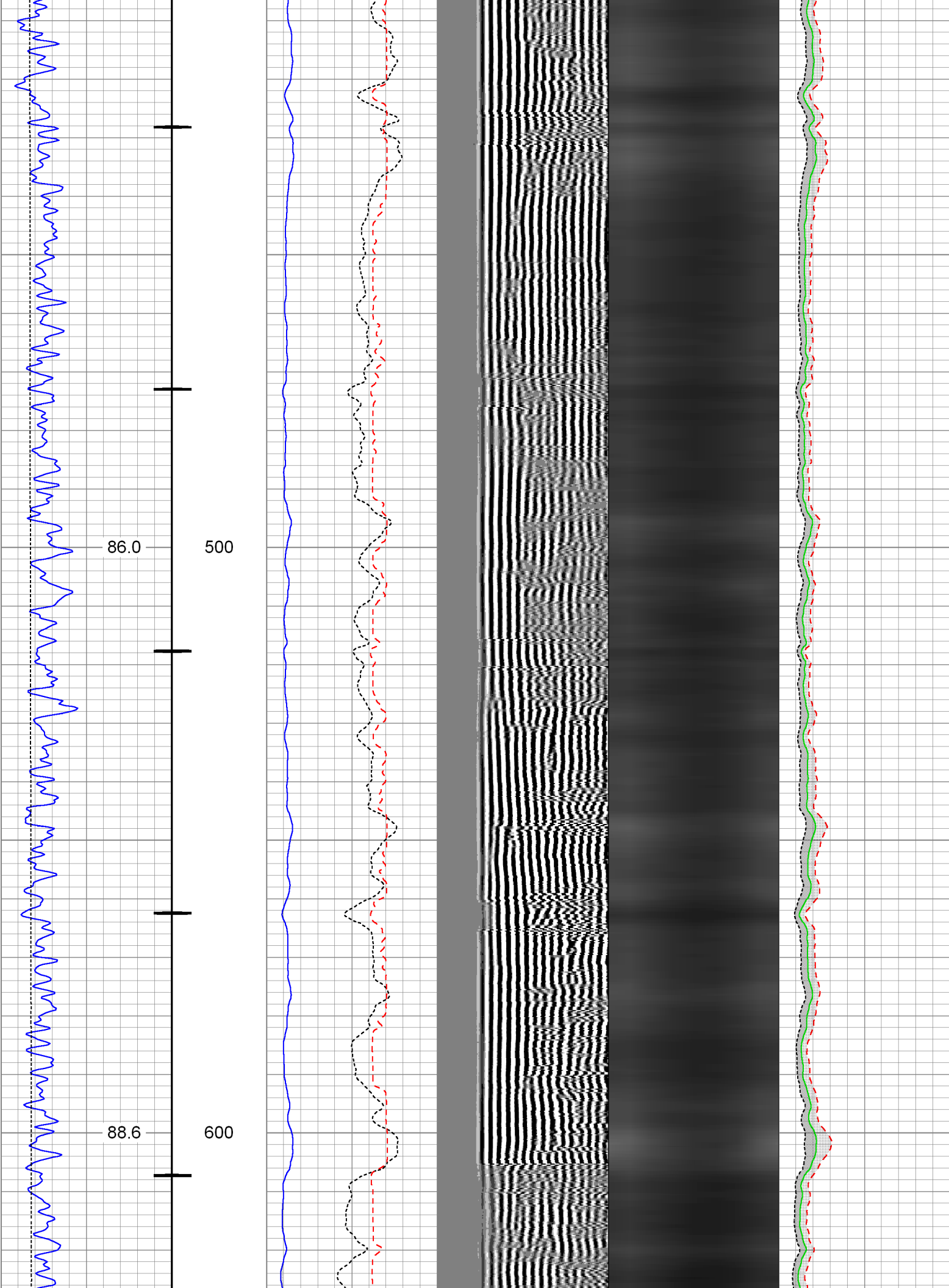
Dataset Creation: Sat Aug 31 17:14:16 2013 by Log SCH 111116

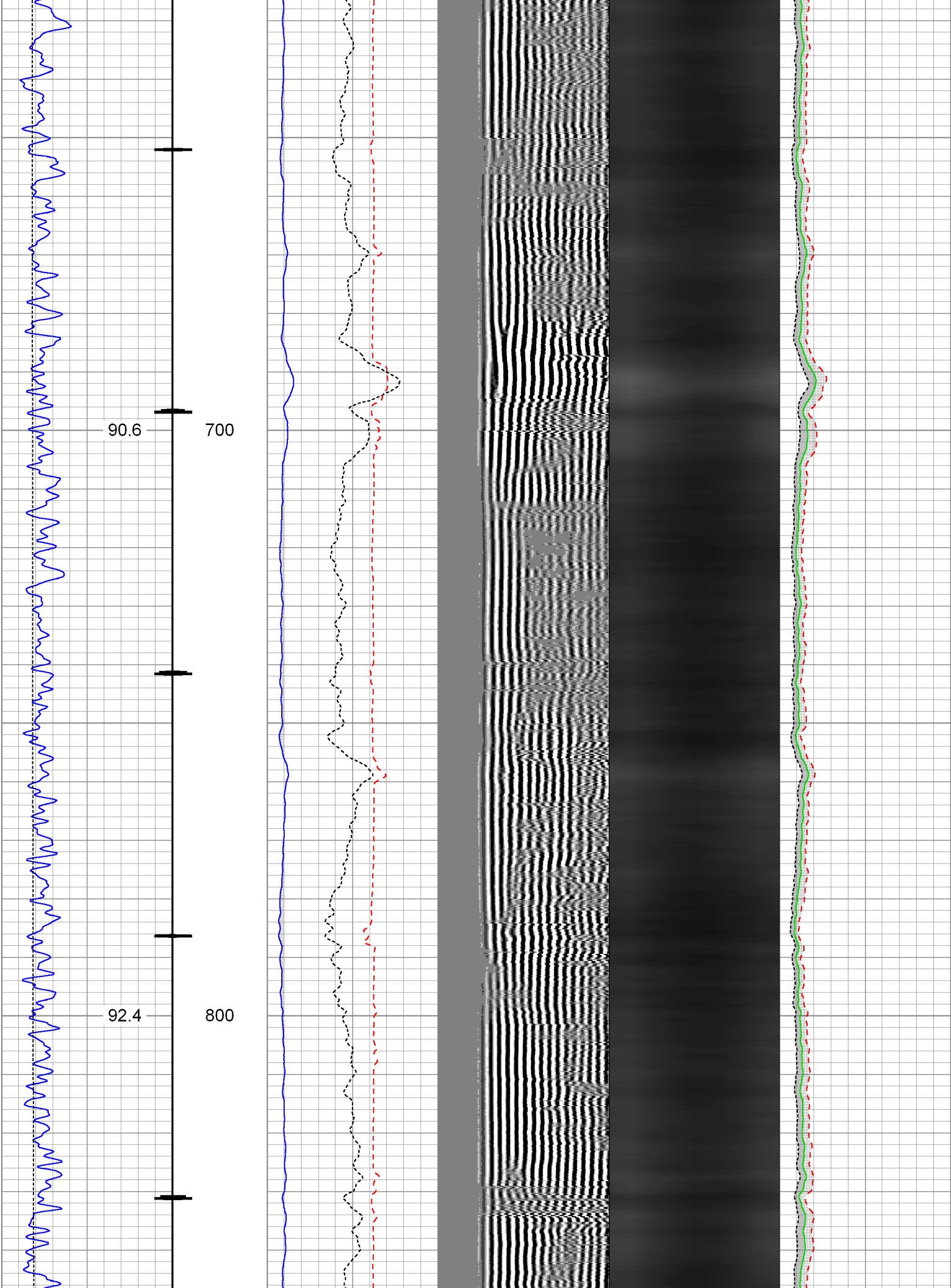
Charted by: Depth in Feet scaled 1:240

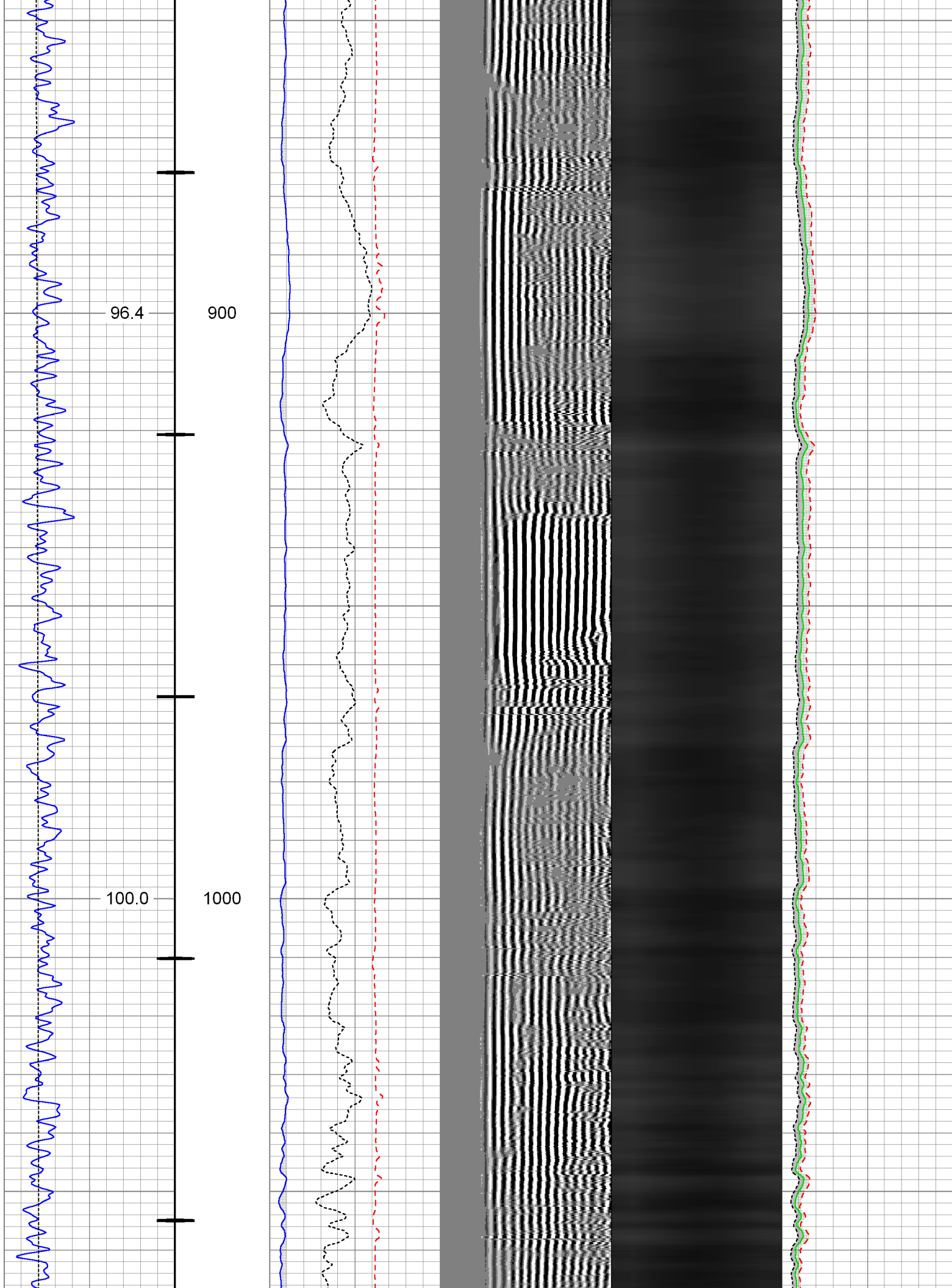
Gamma Ray	0 CCL 10	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 200		0 (mV) 100	200 1200		0 100
Collar Locator		3' Amplitude x 5			Minimum Amplitude
0 TEMP (degF)500		0 (mV) 20			0 100
		3' Travel Time			Maximum Amplitude
		650 (usec) 150			0 100

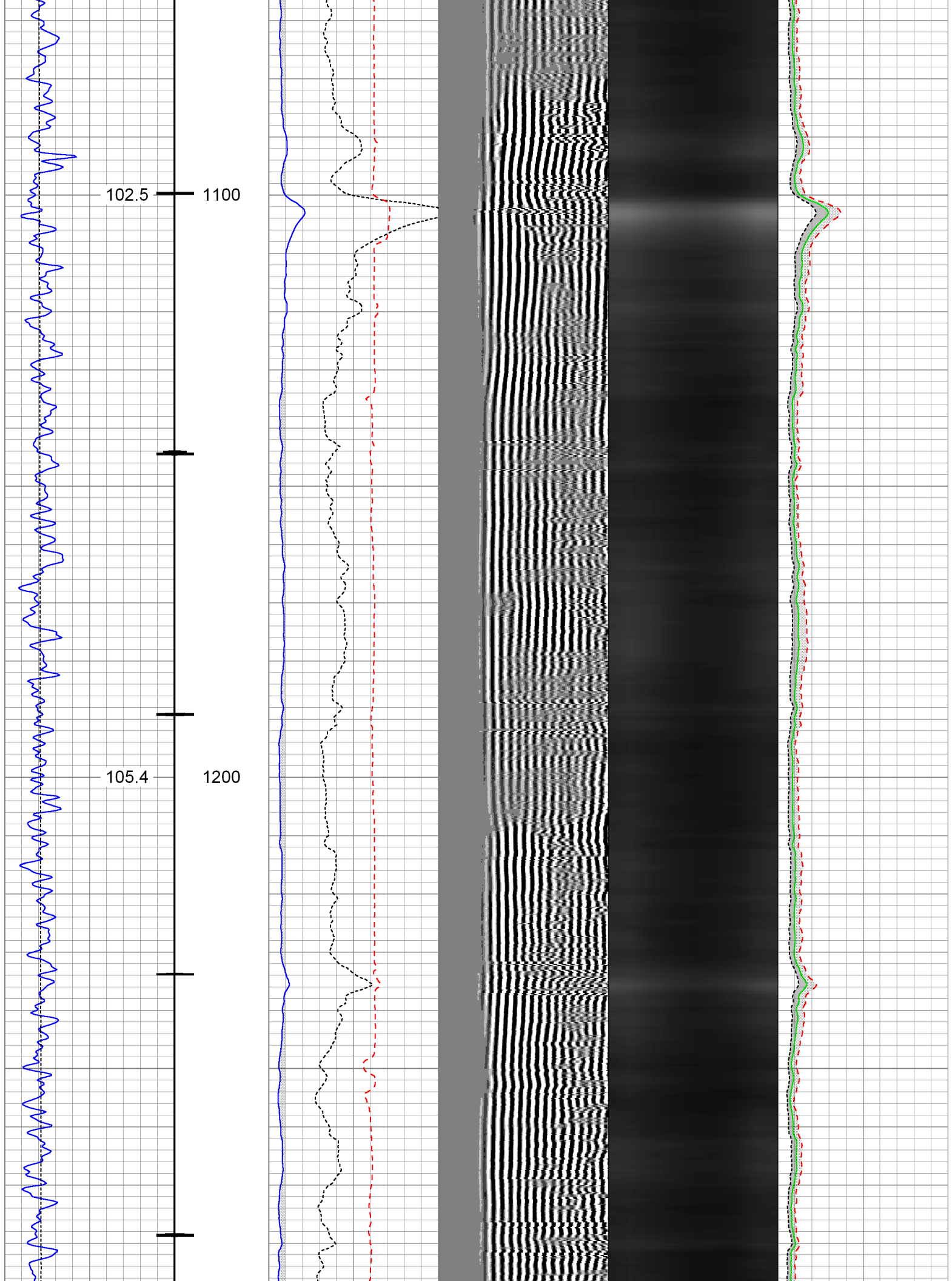


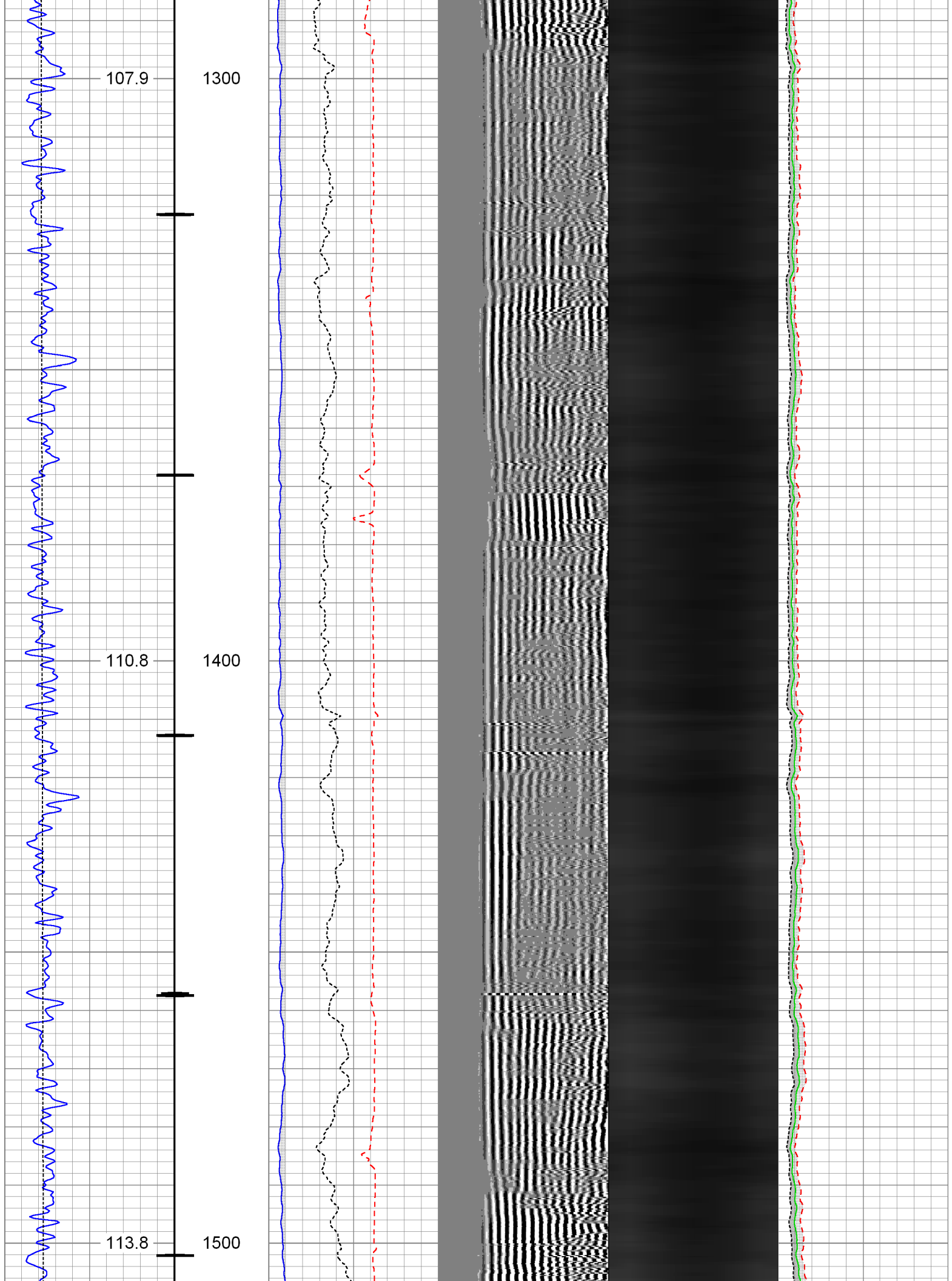


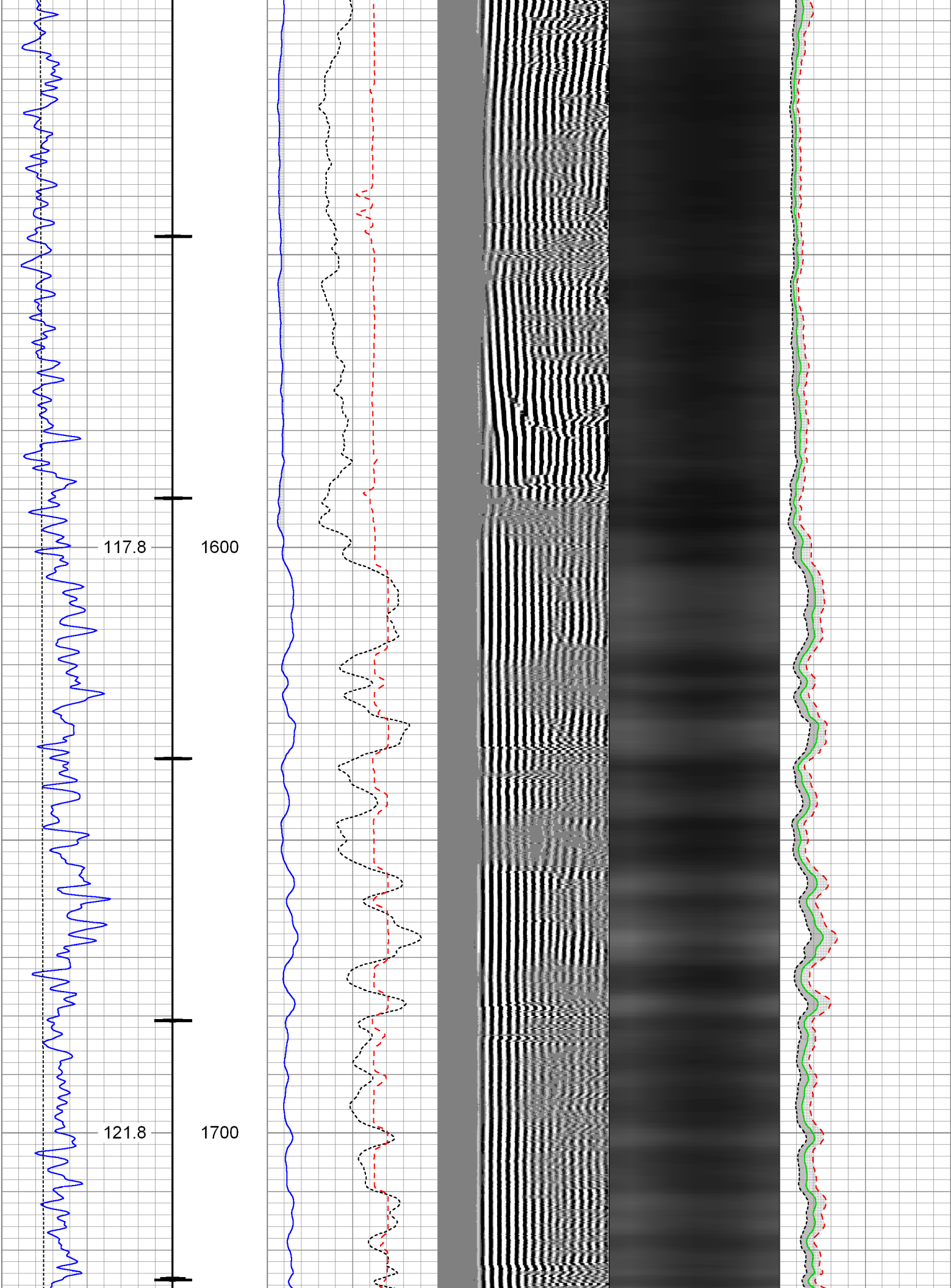


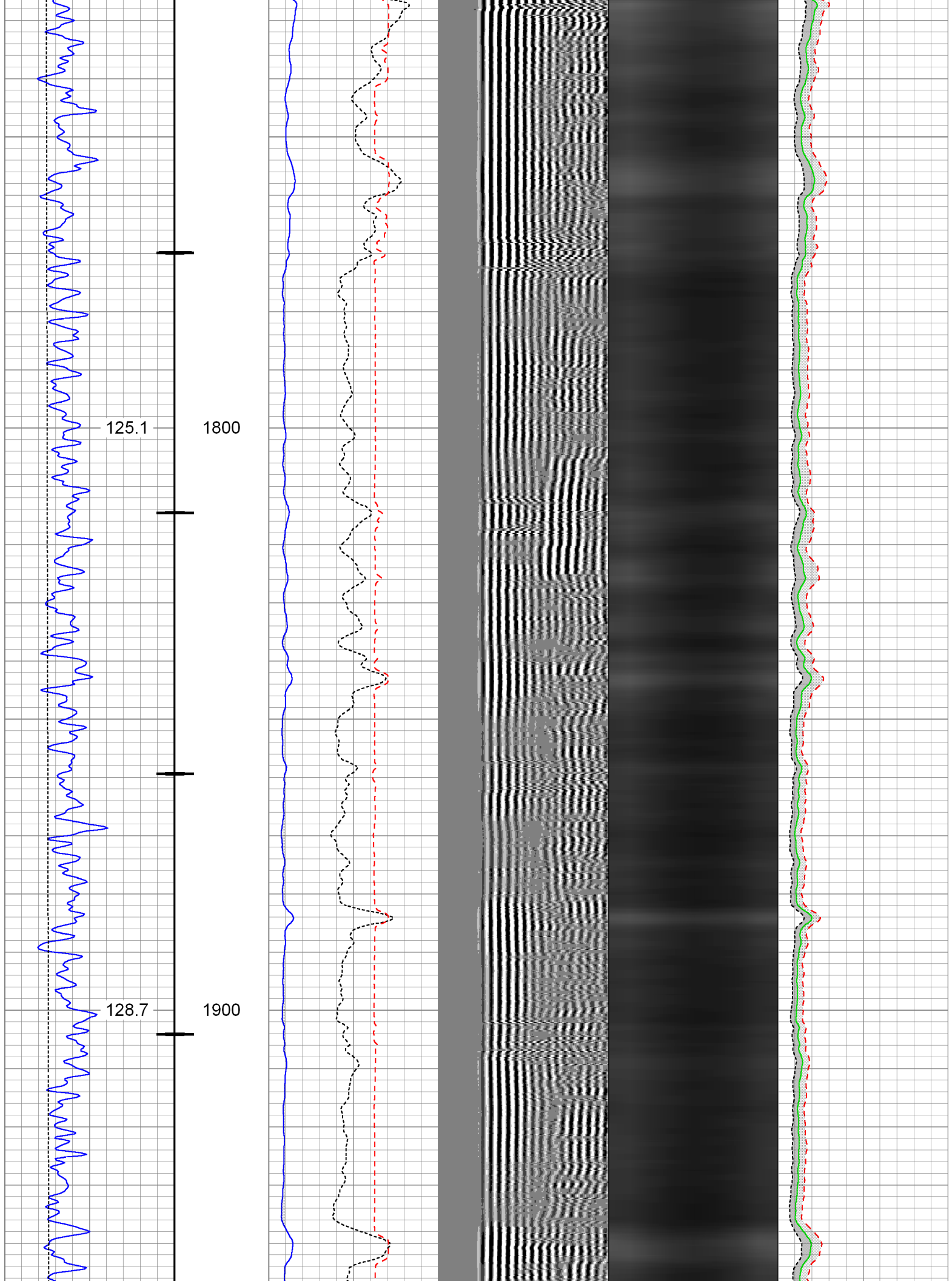


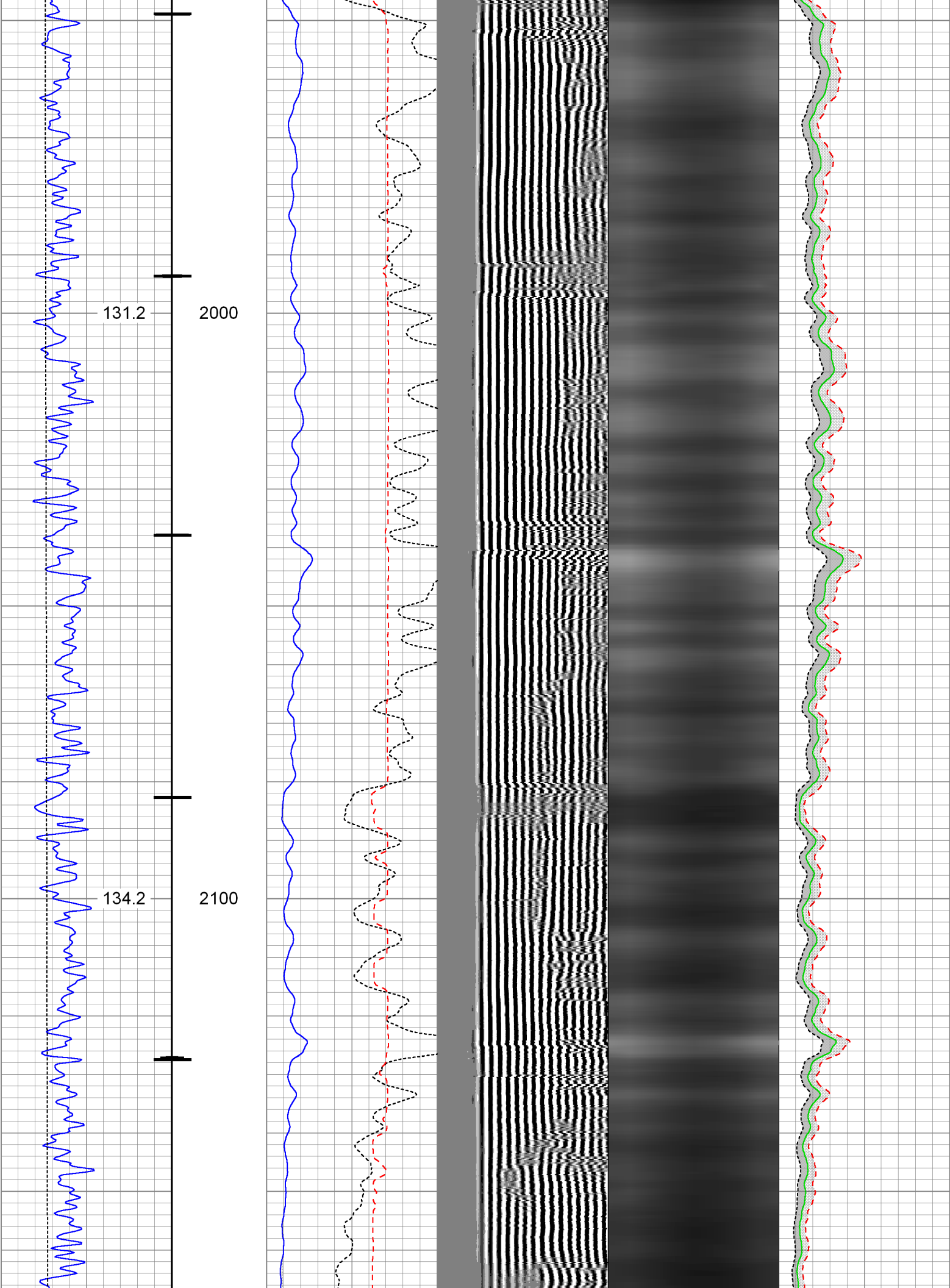


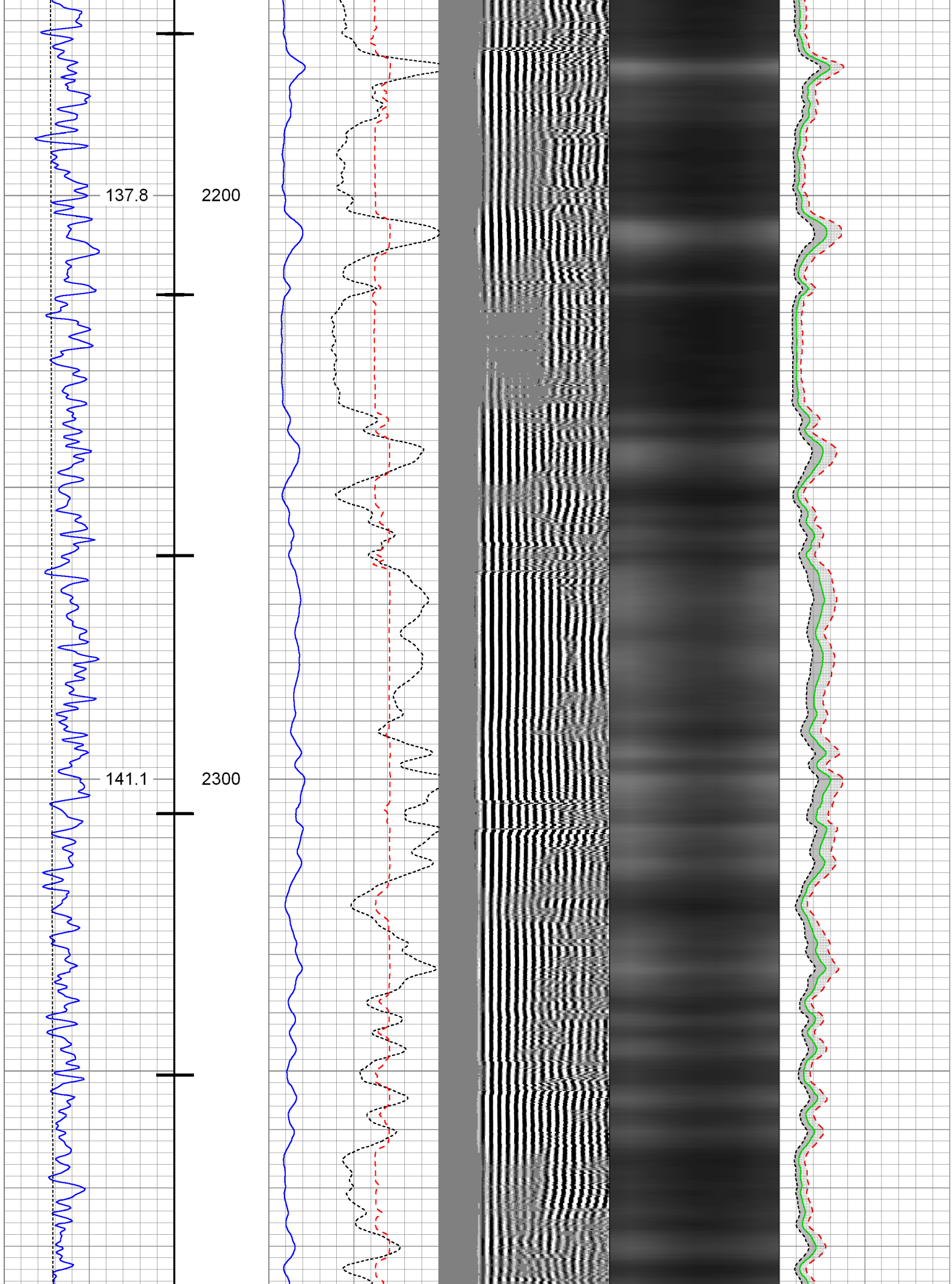


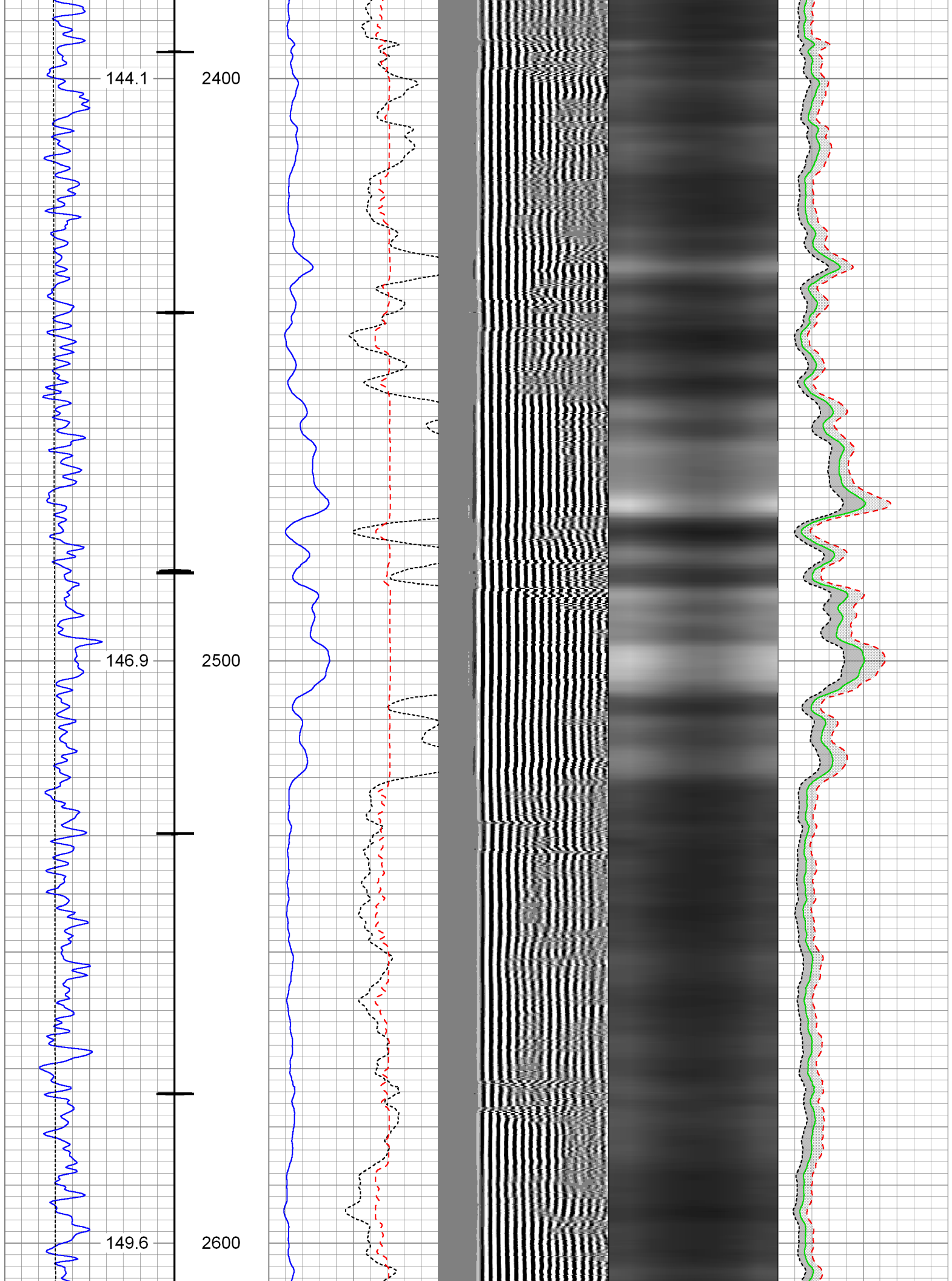


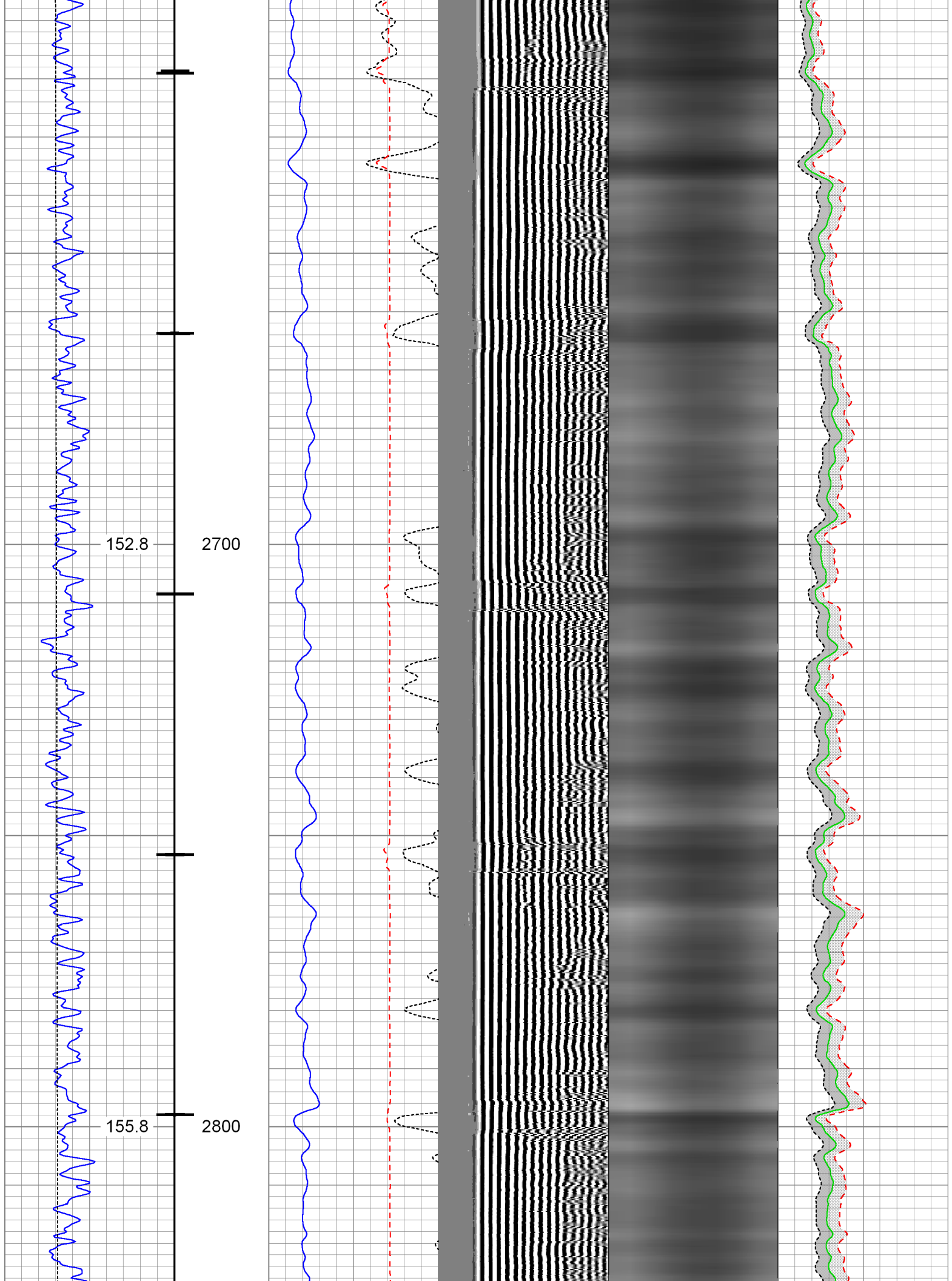


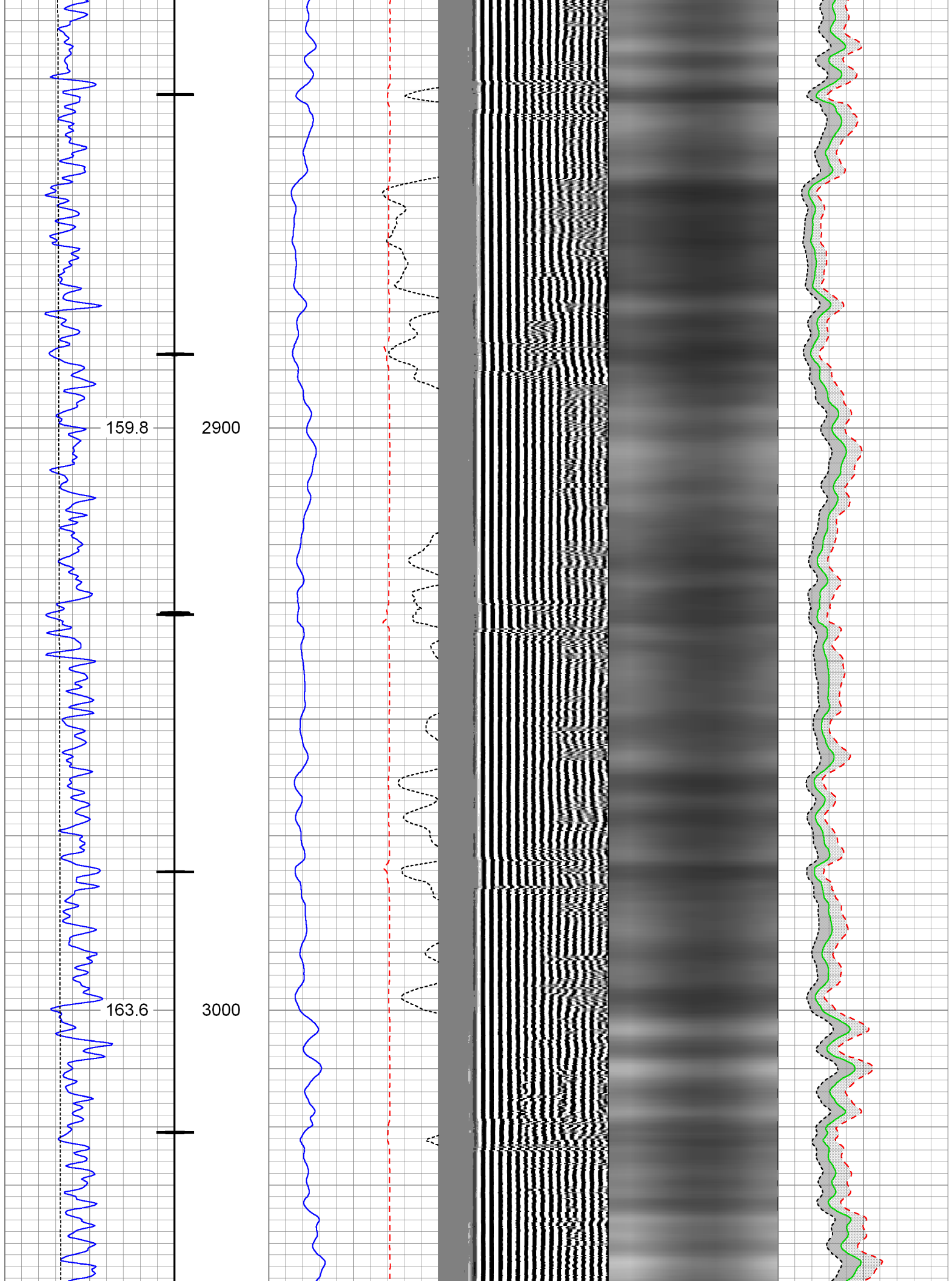


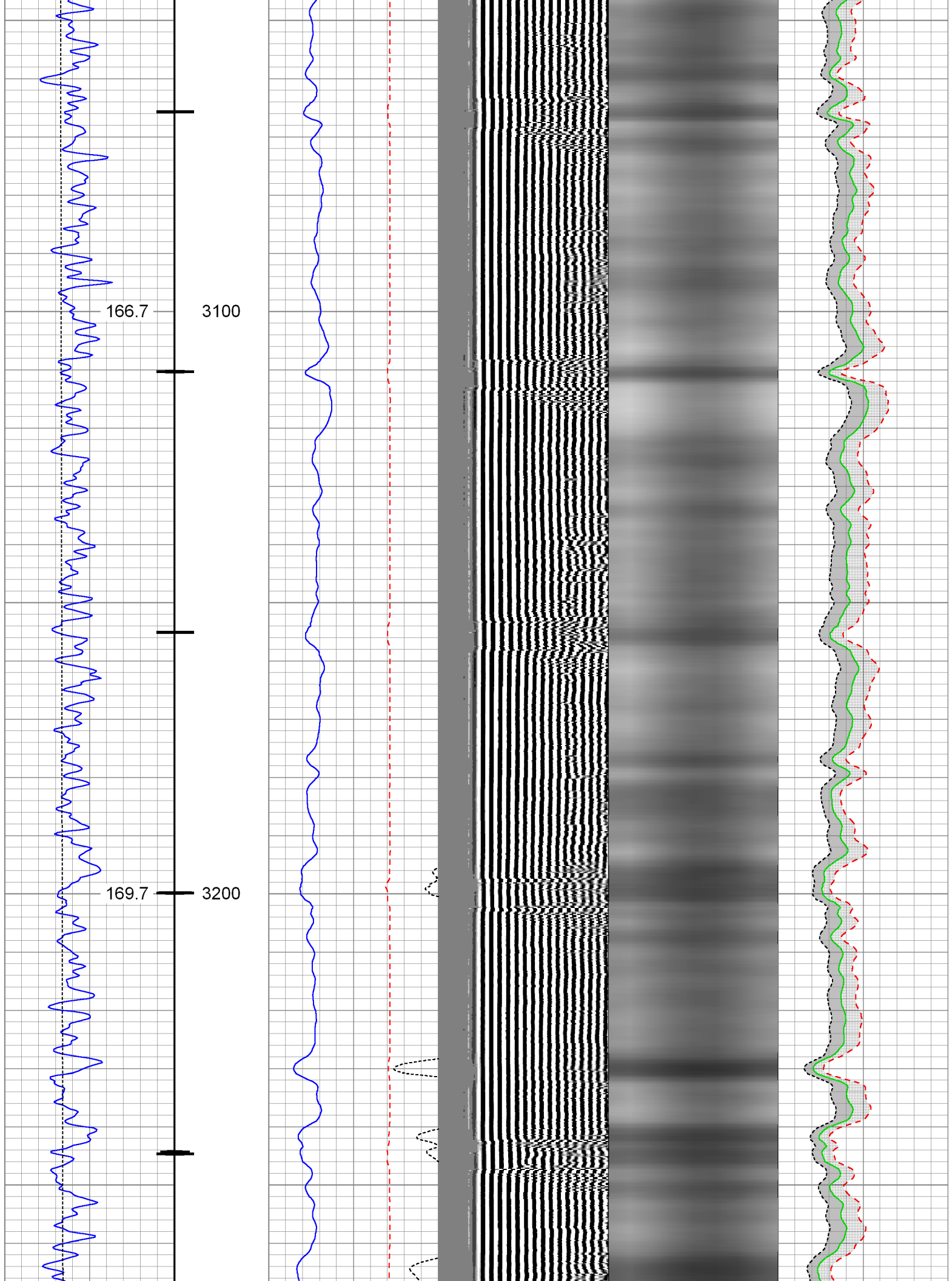


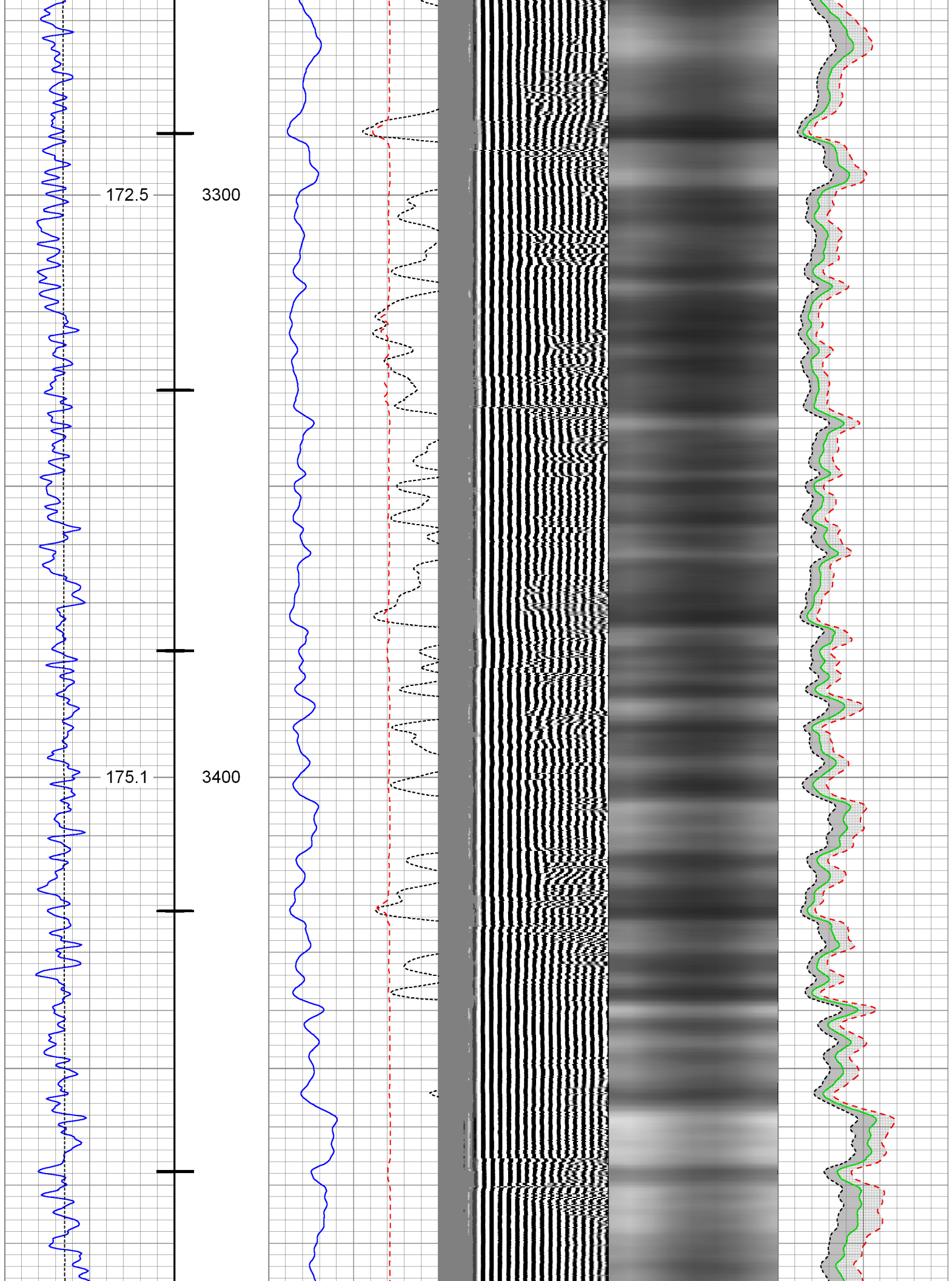


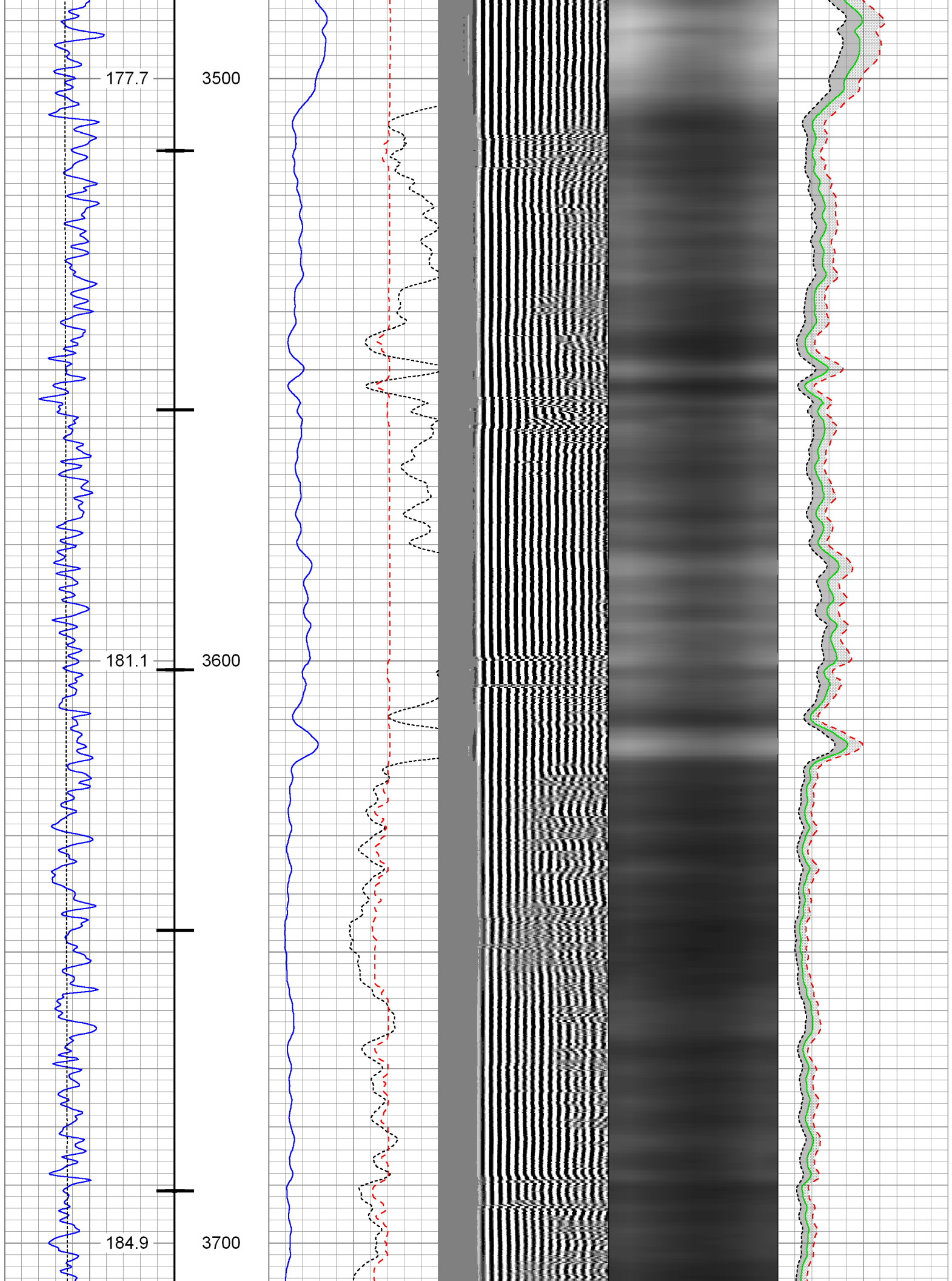


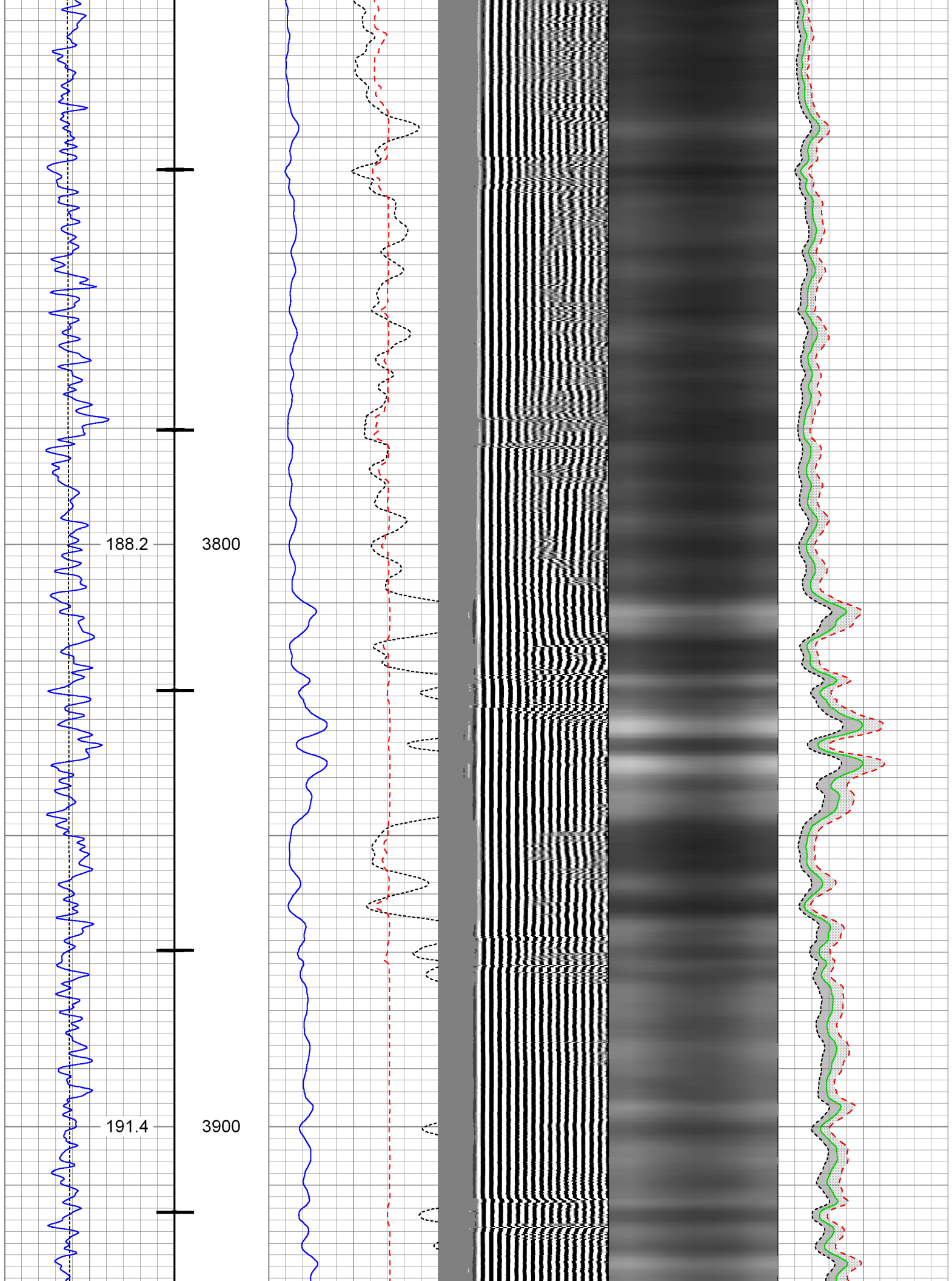


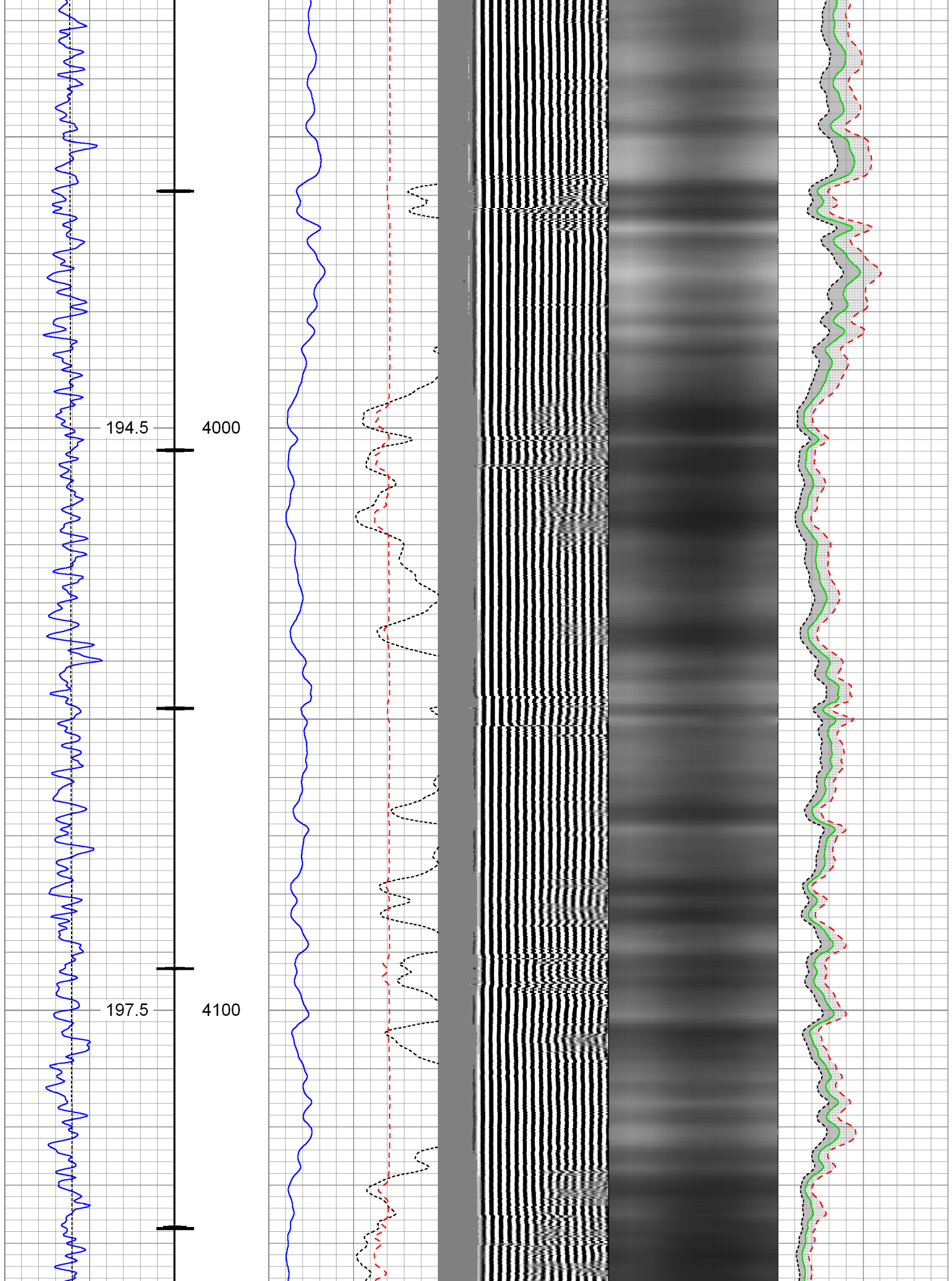


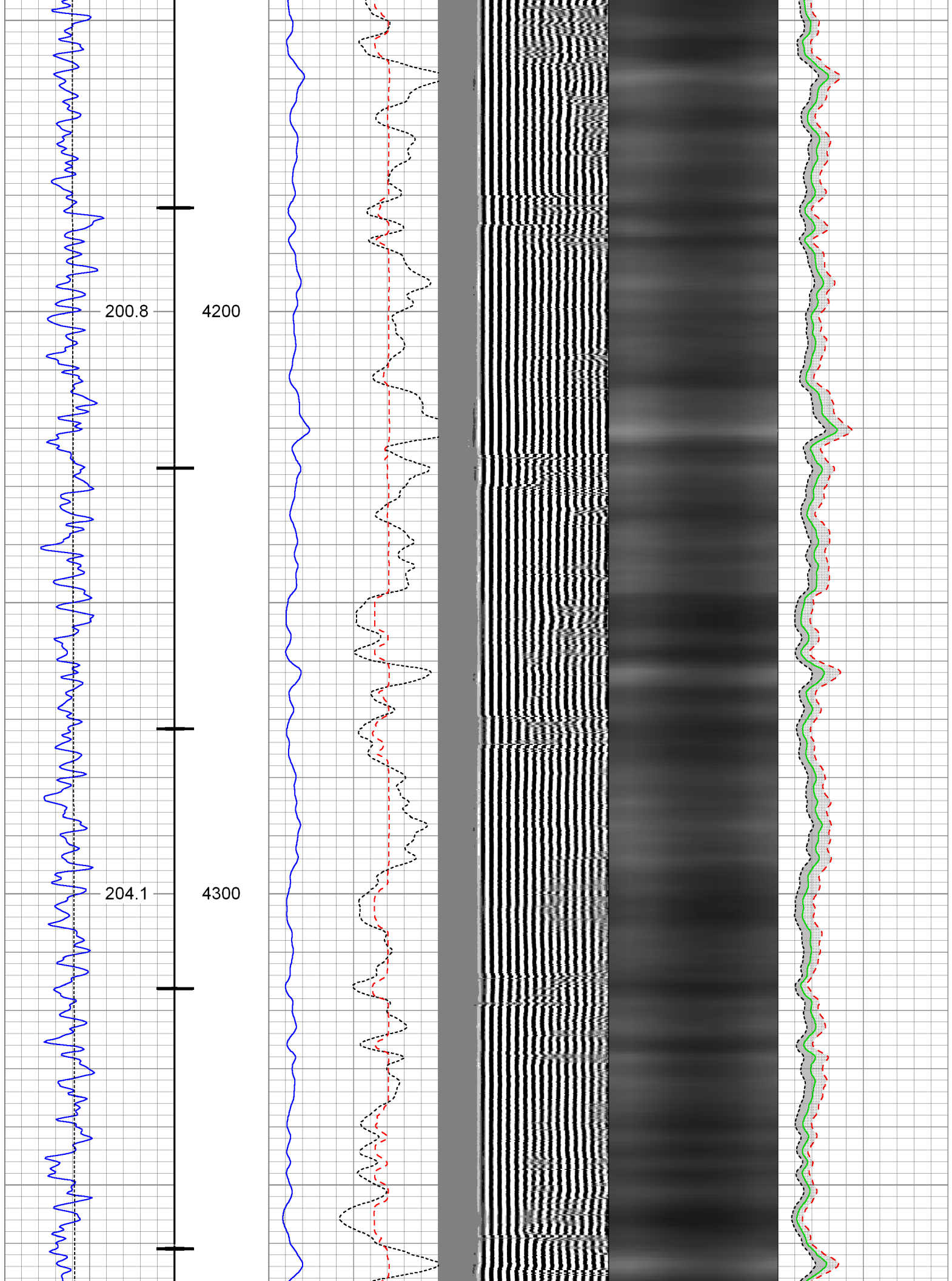


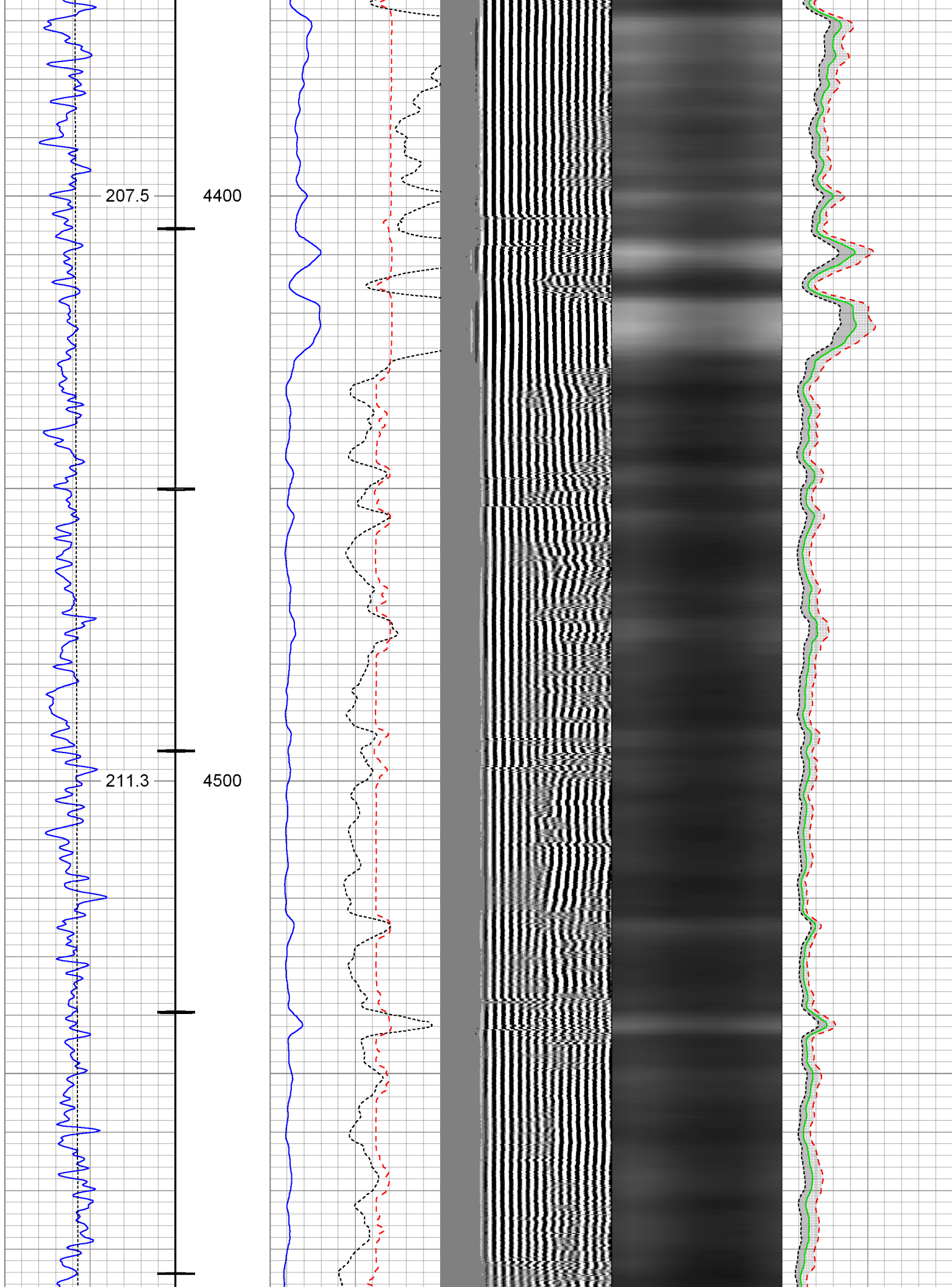


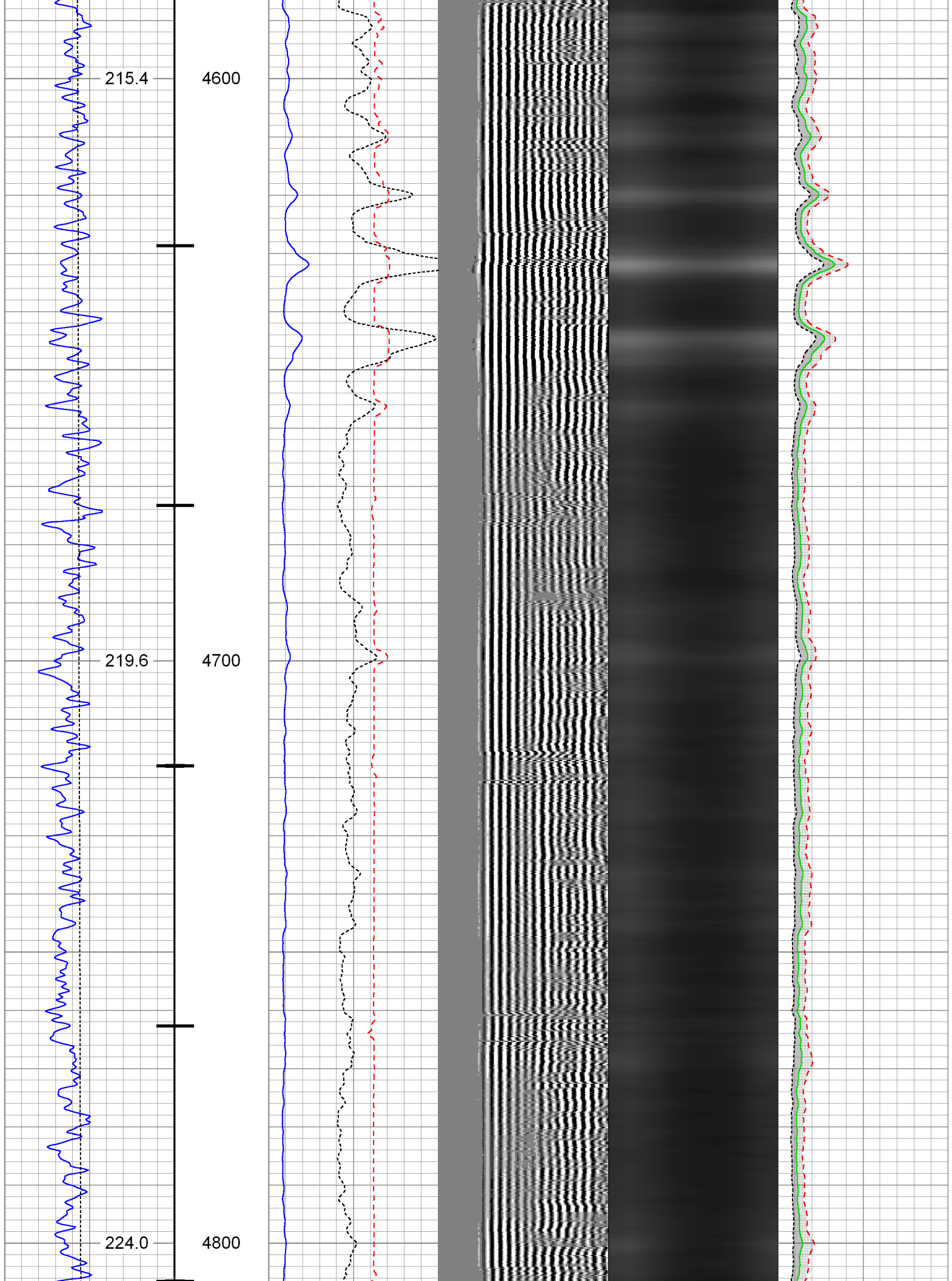


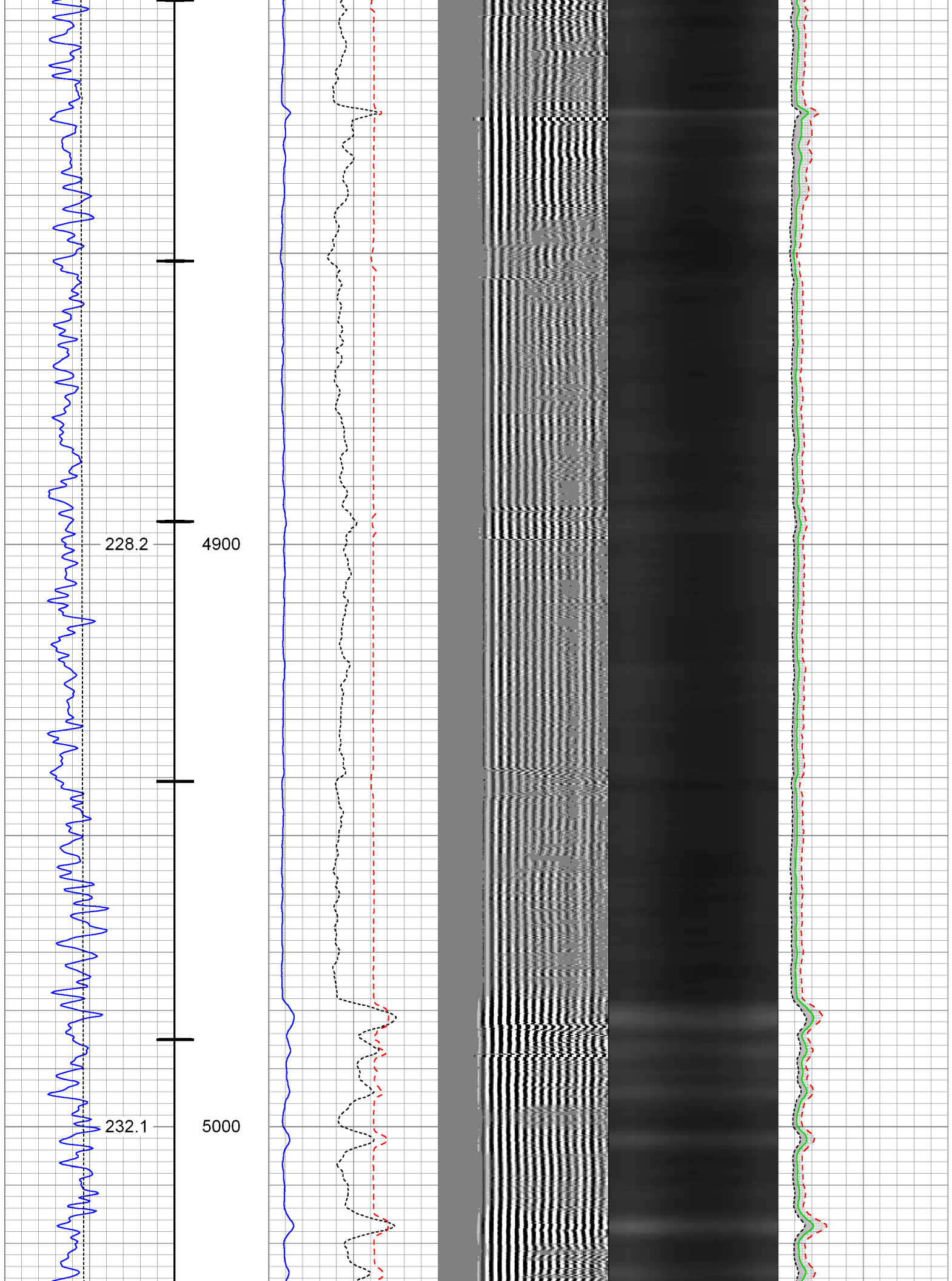


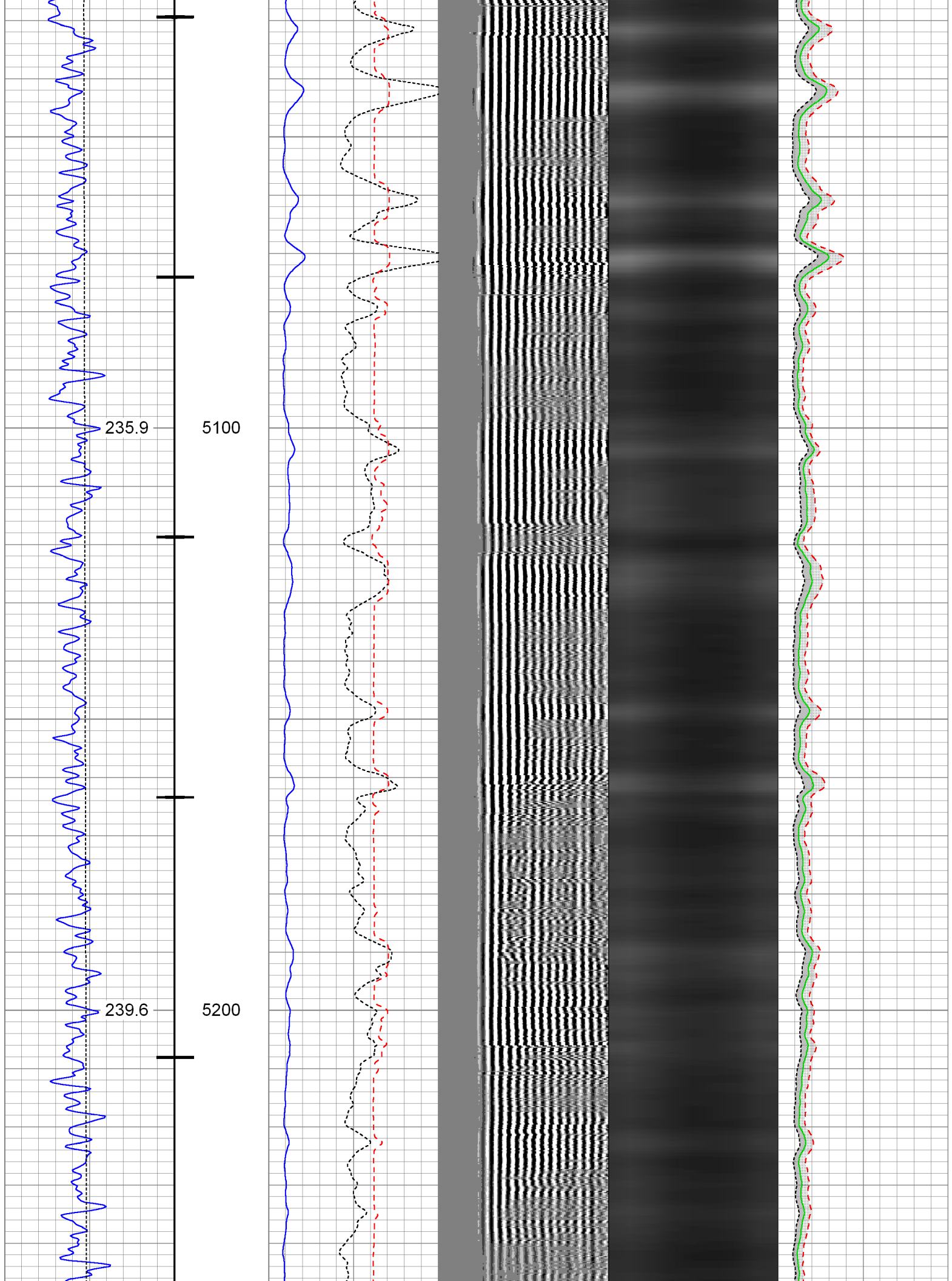


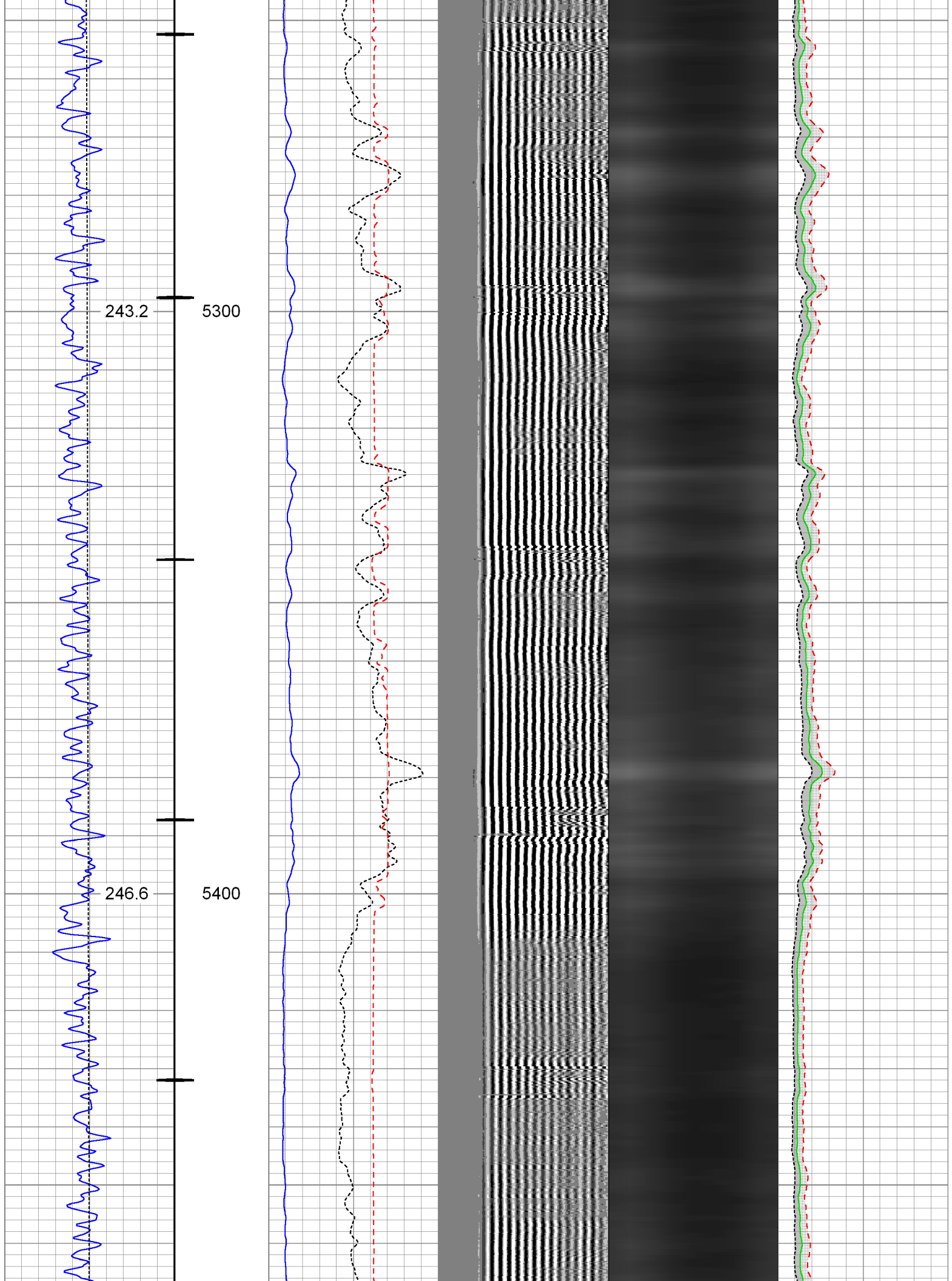


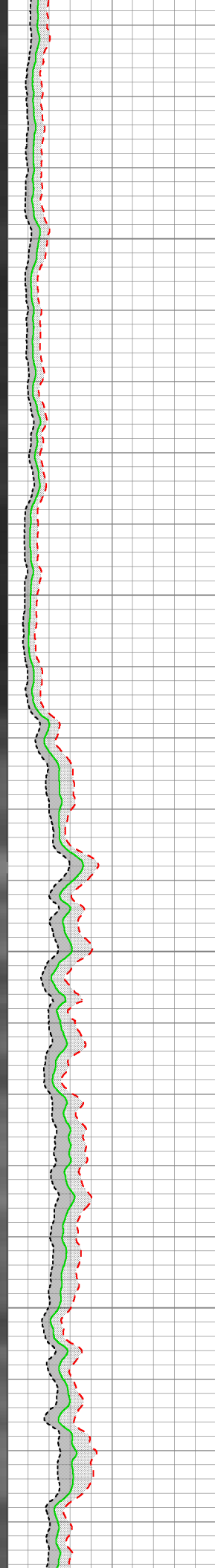
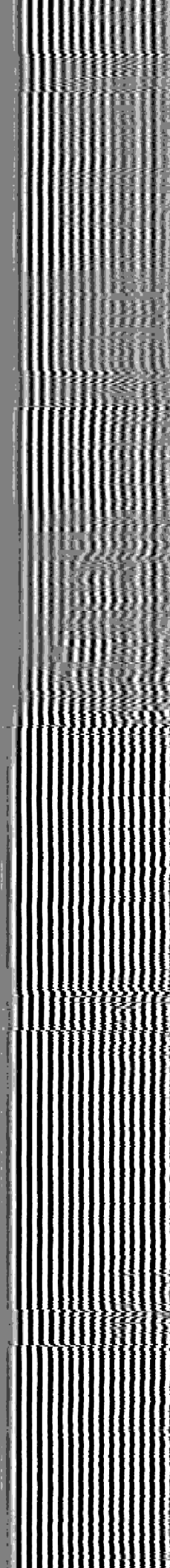
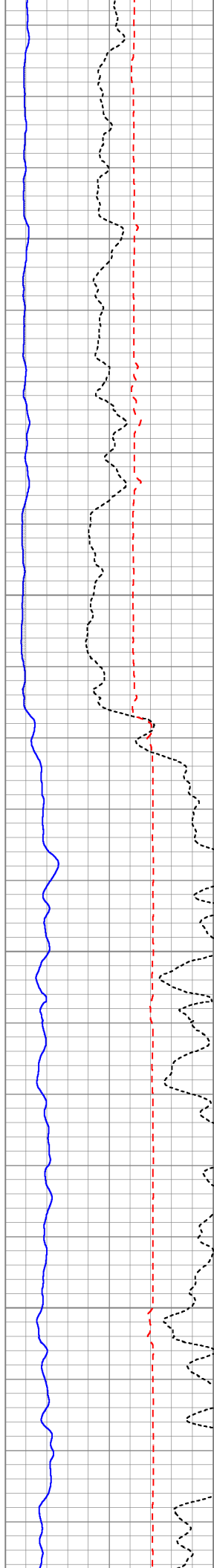
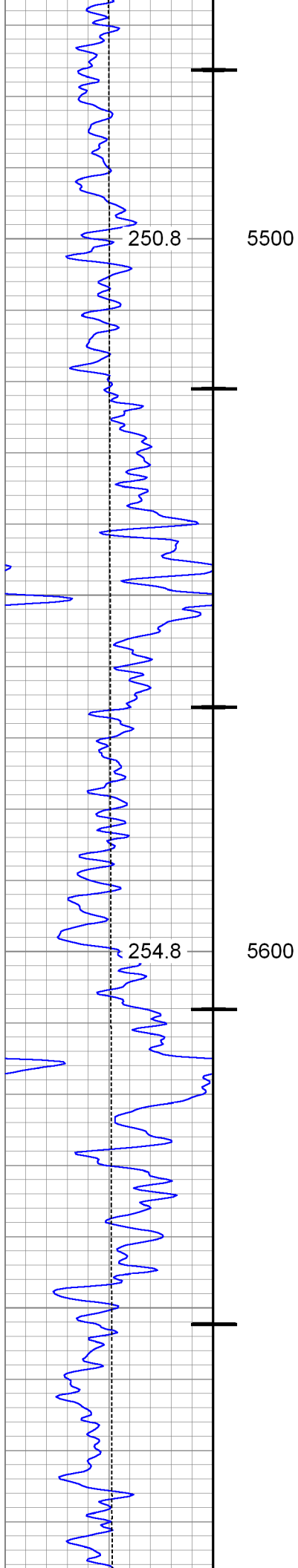


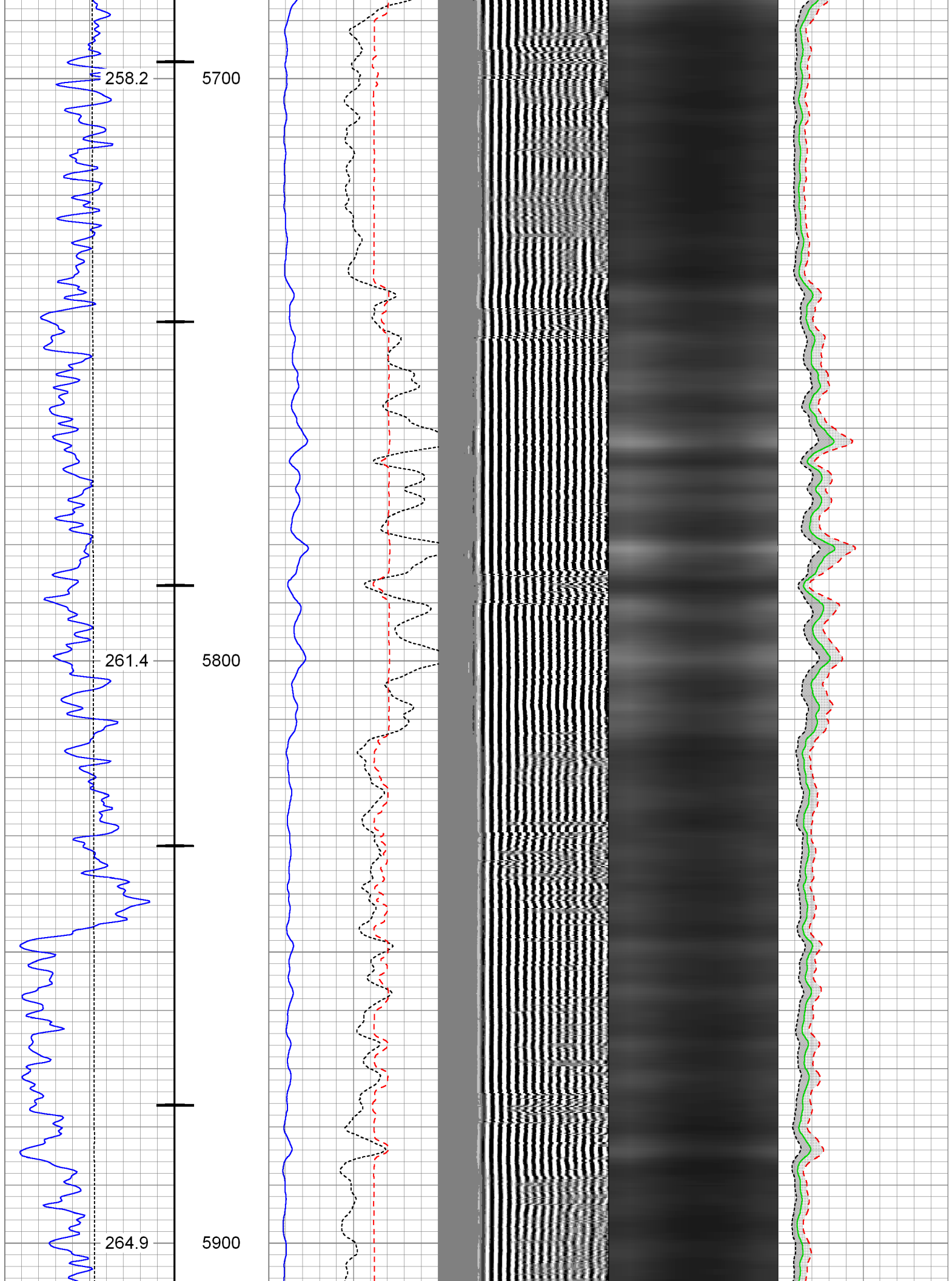


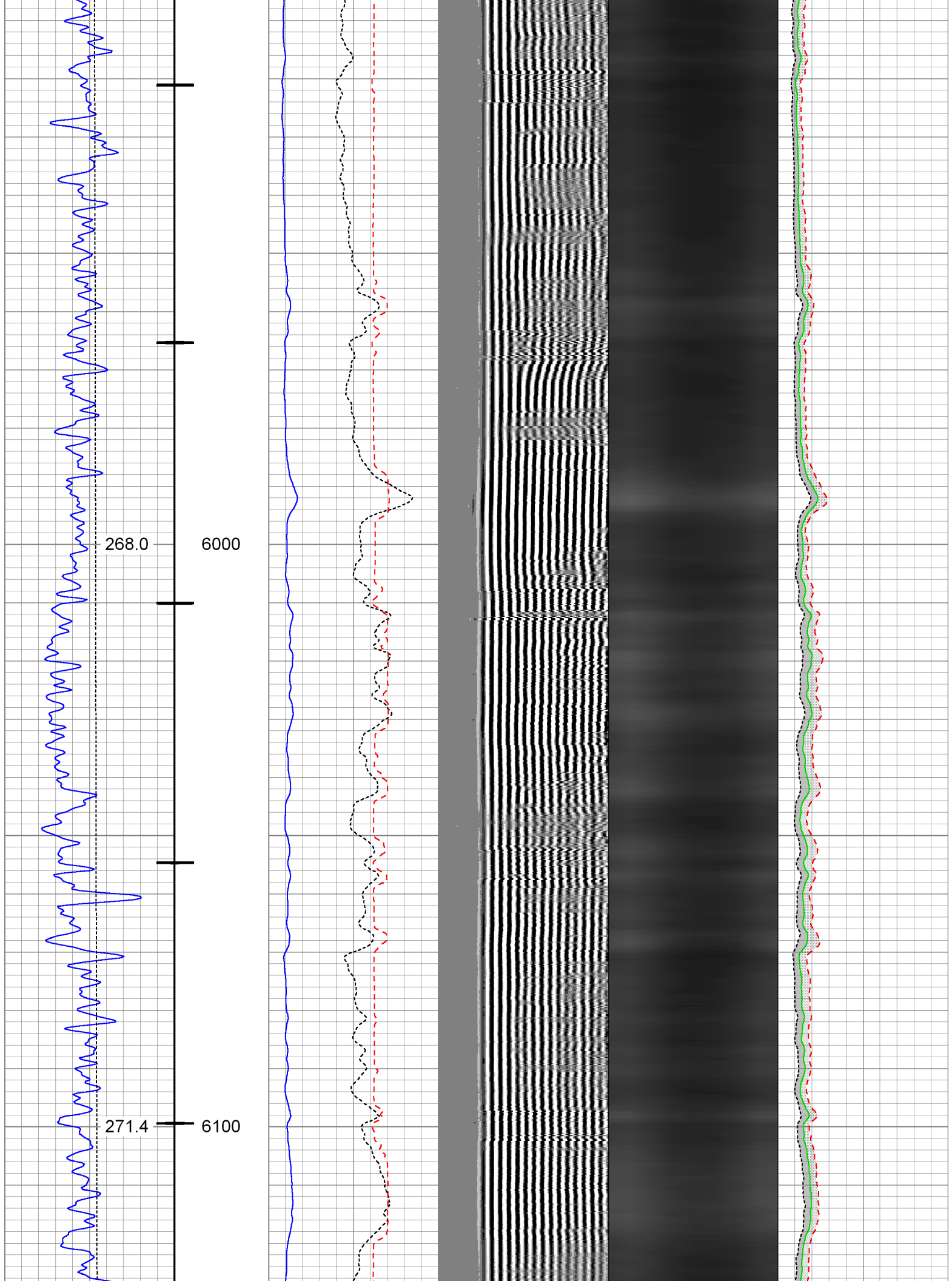


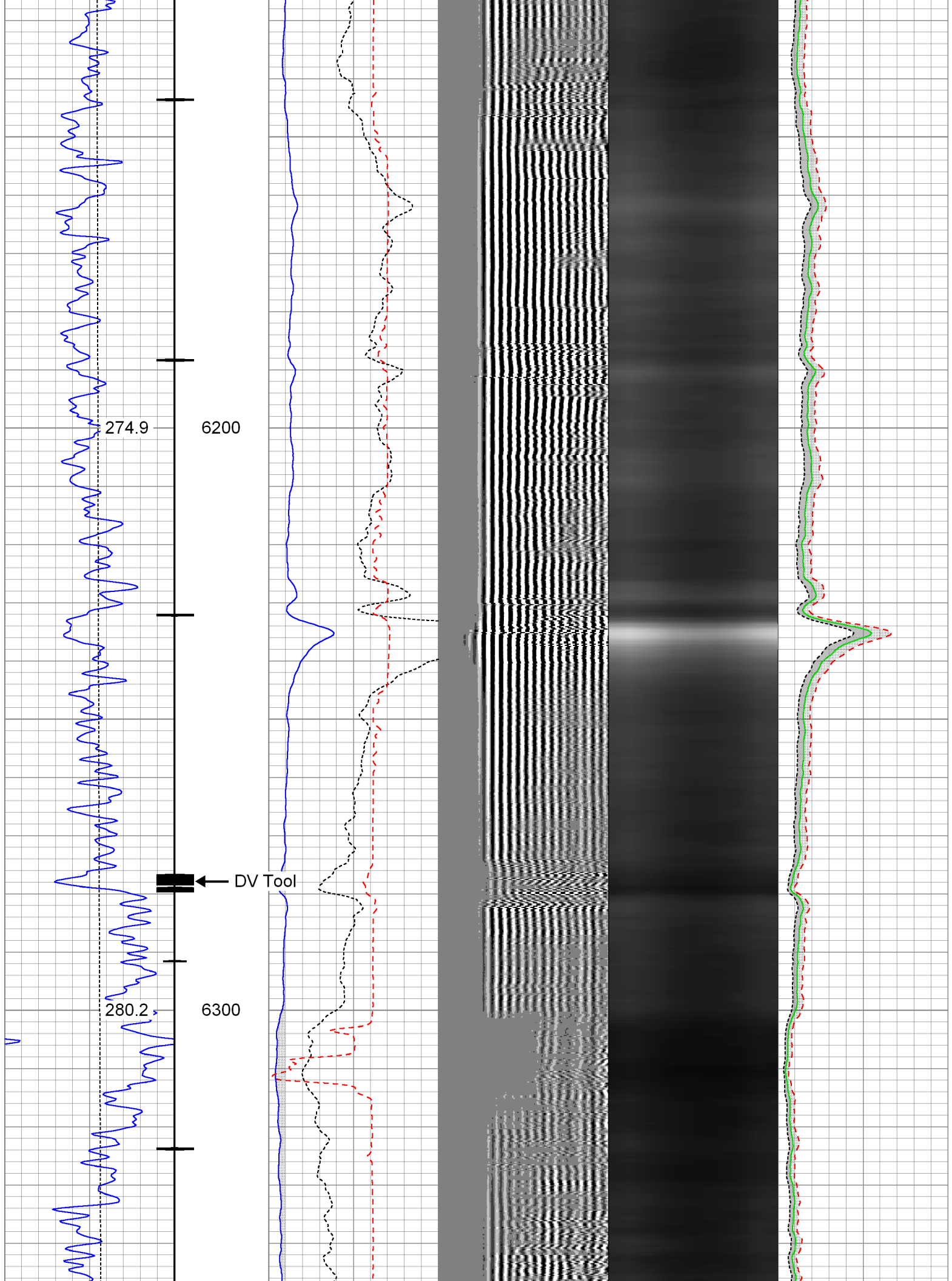


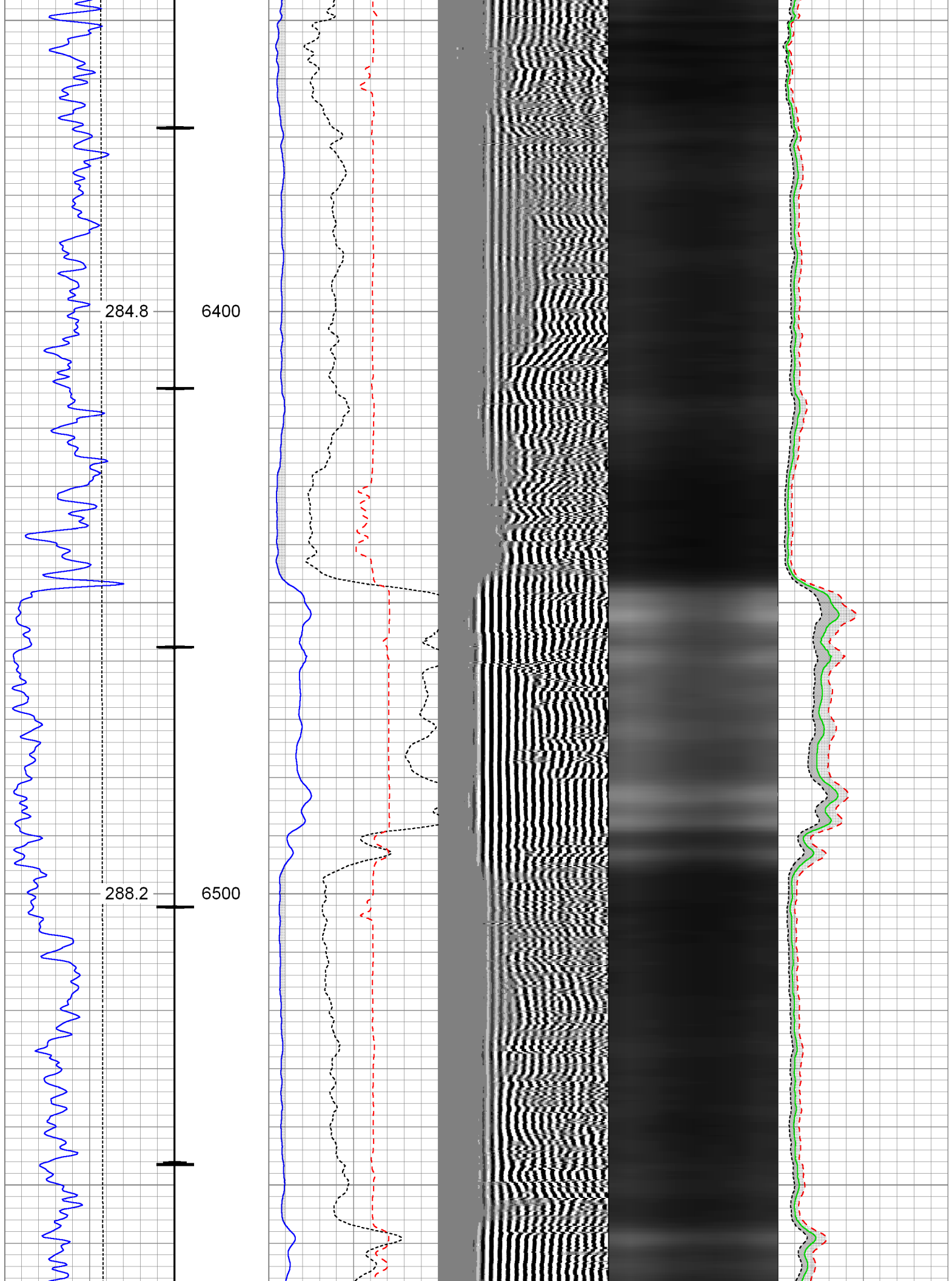


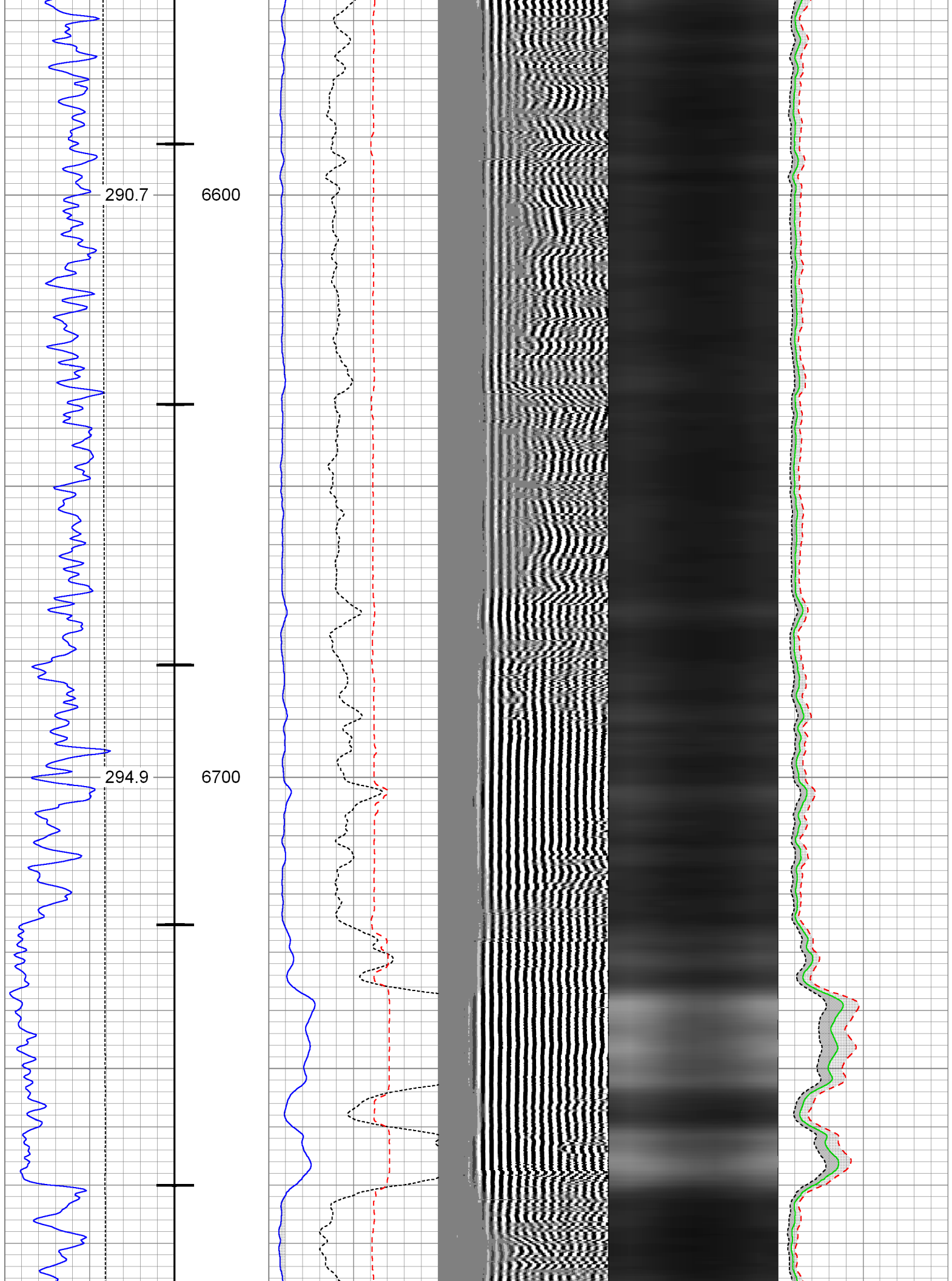


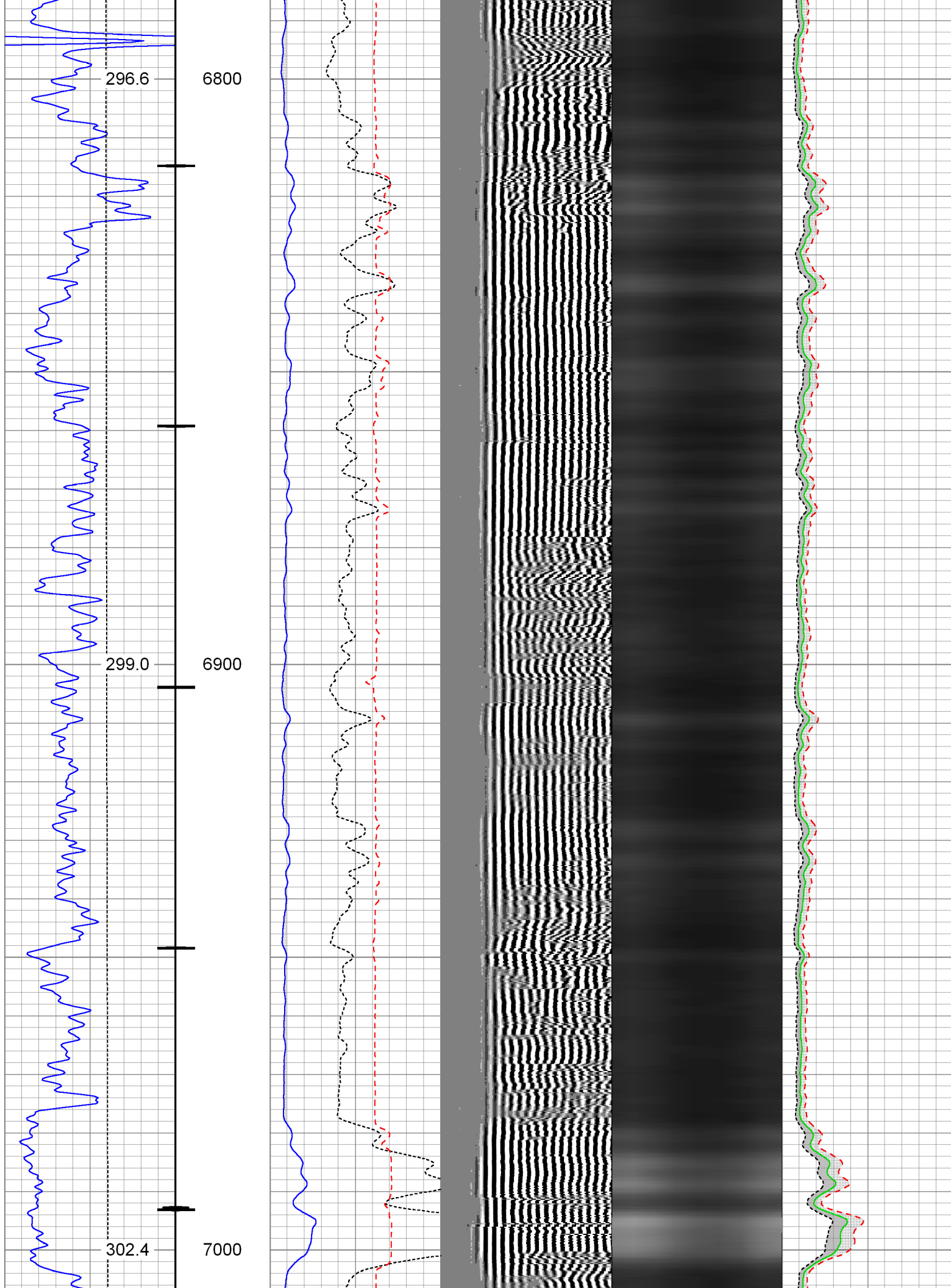


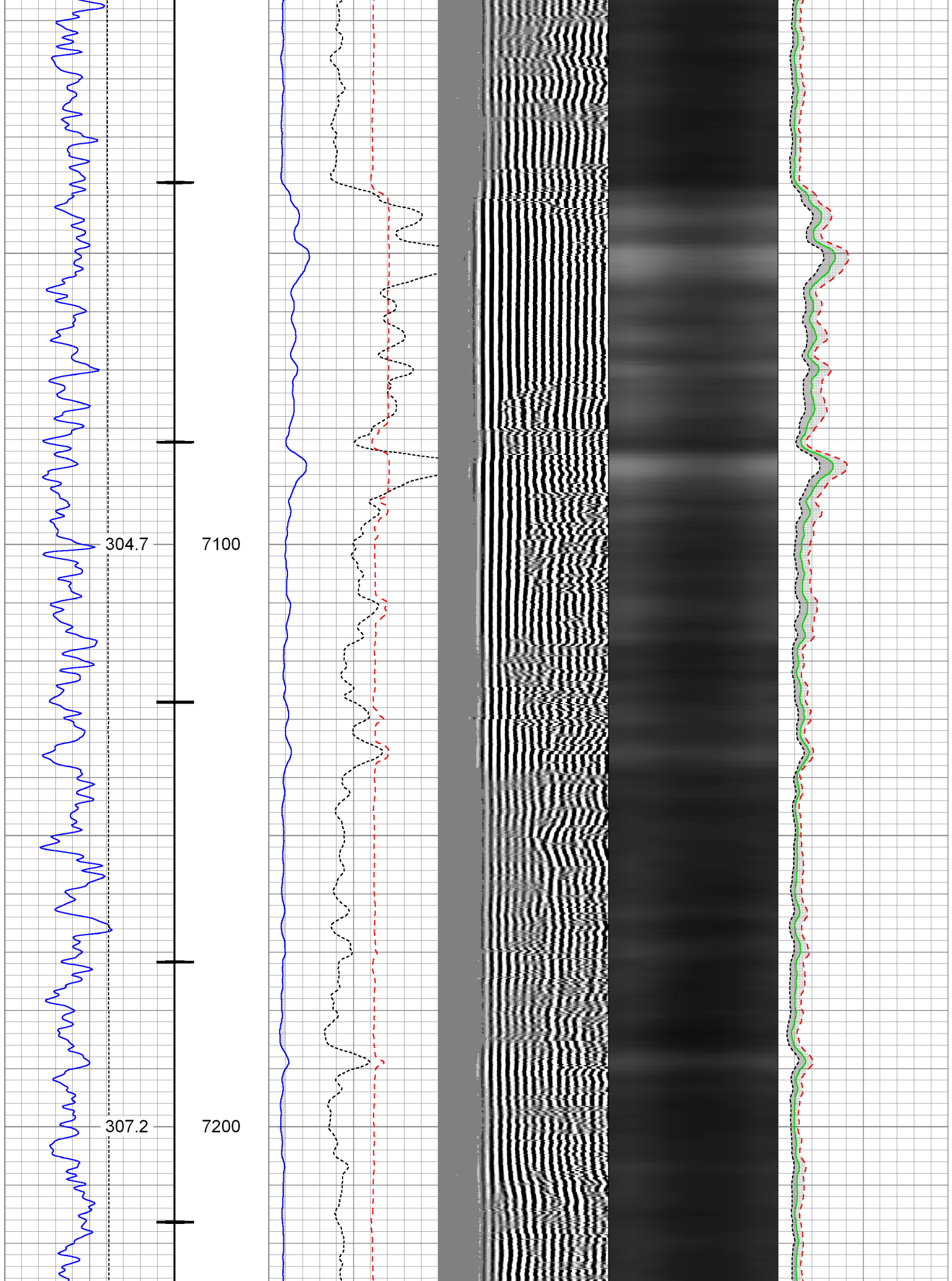


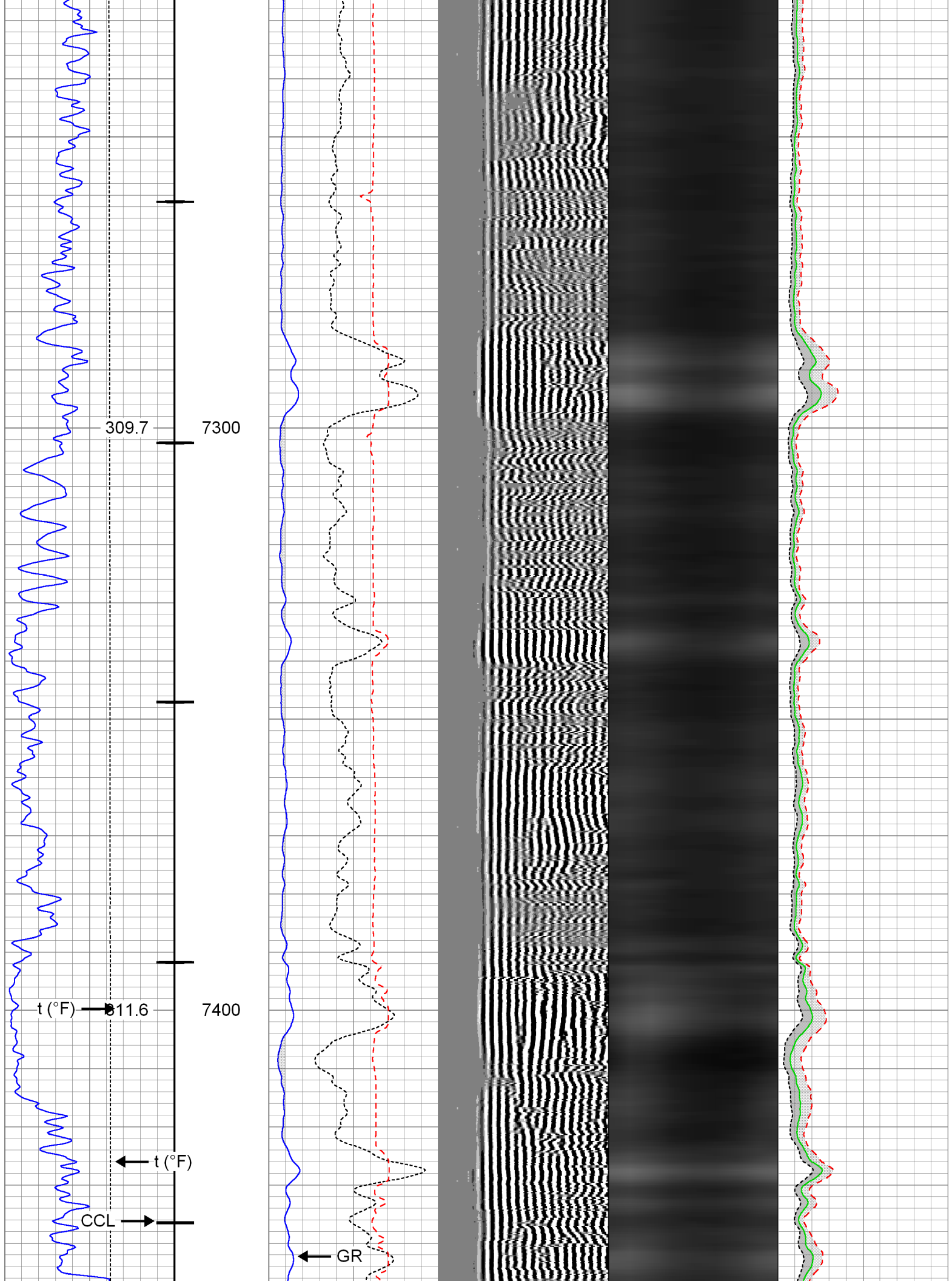


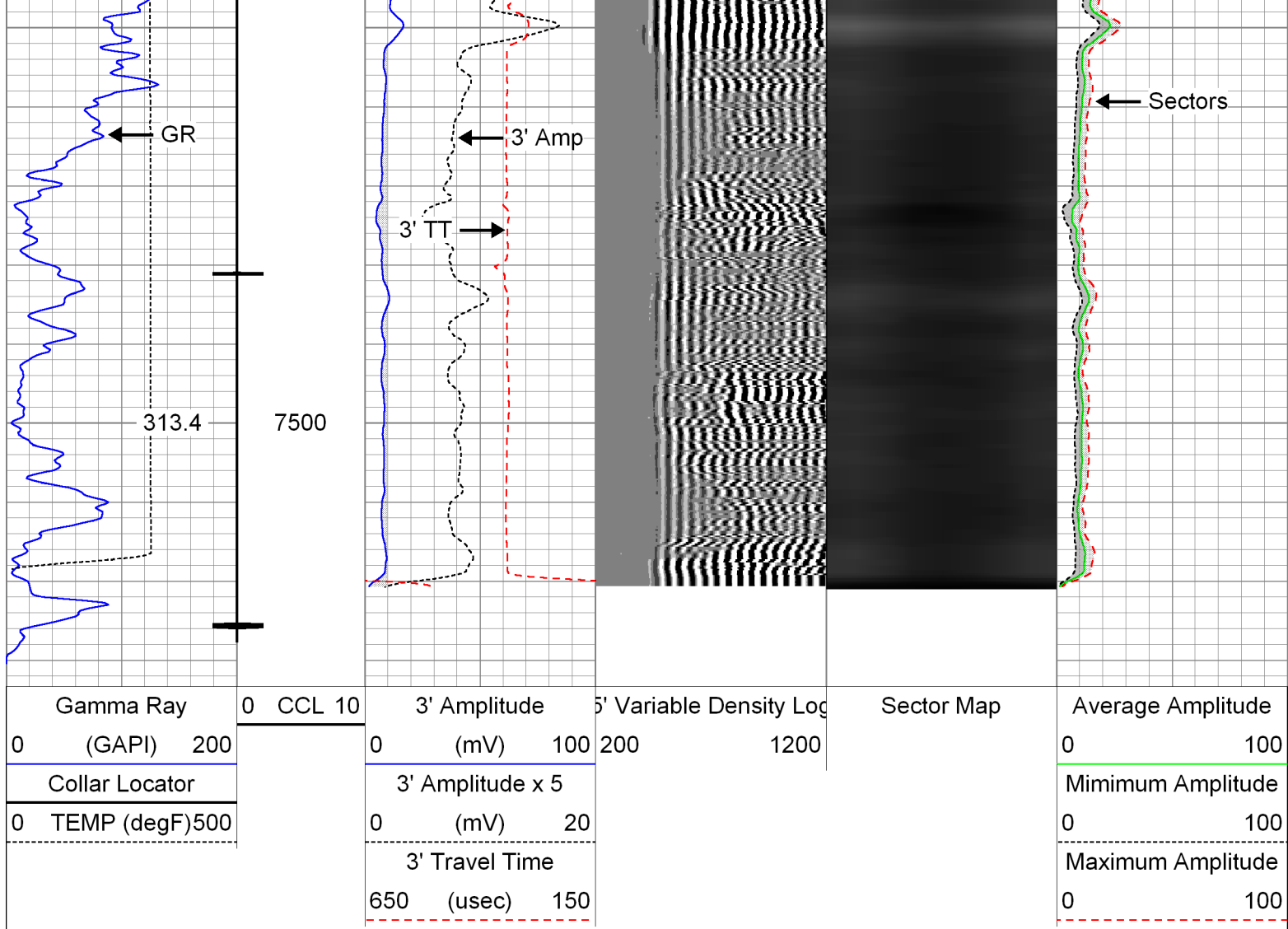






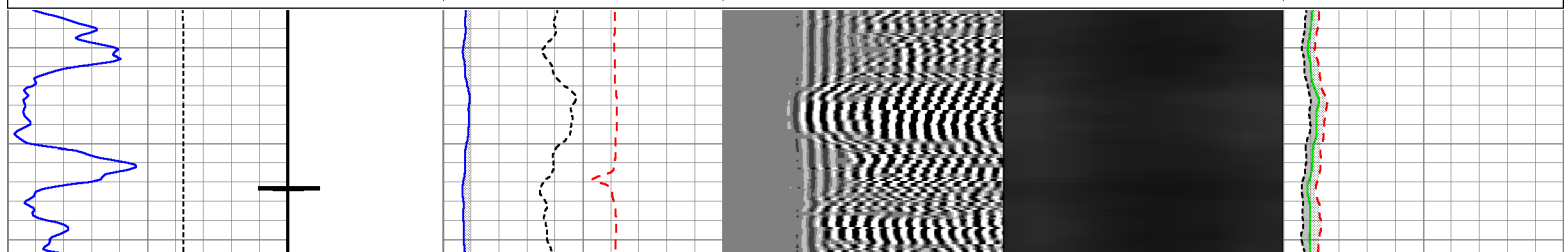
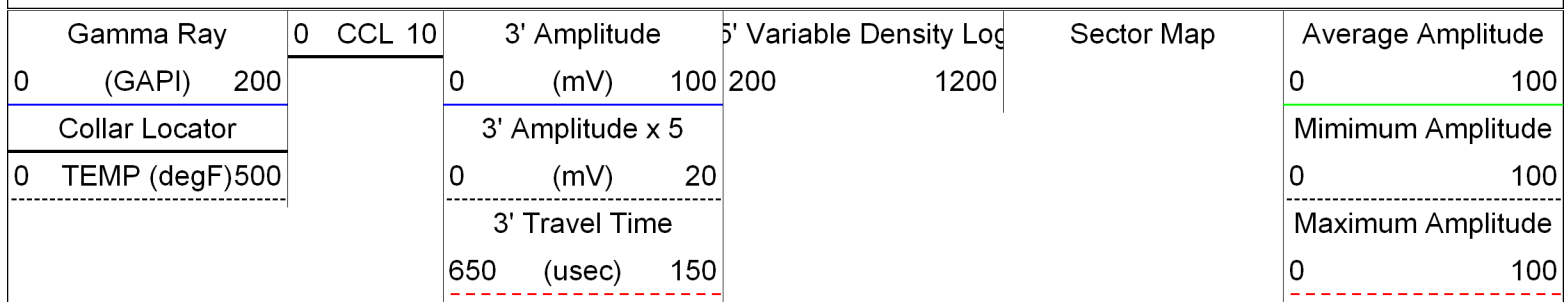


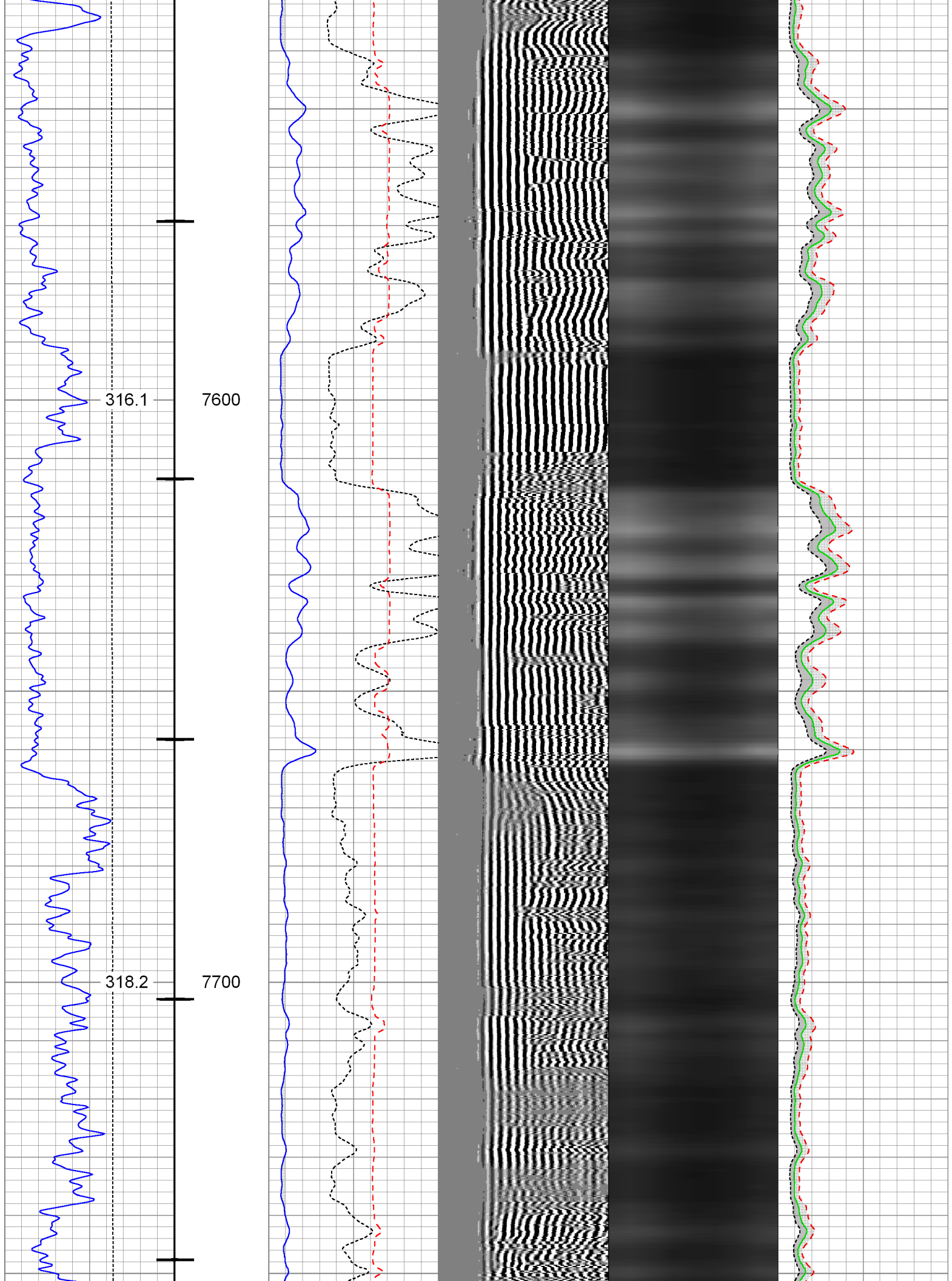


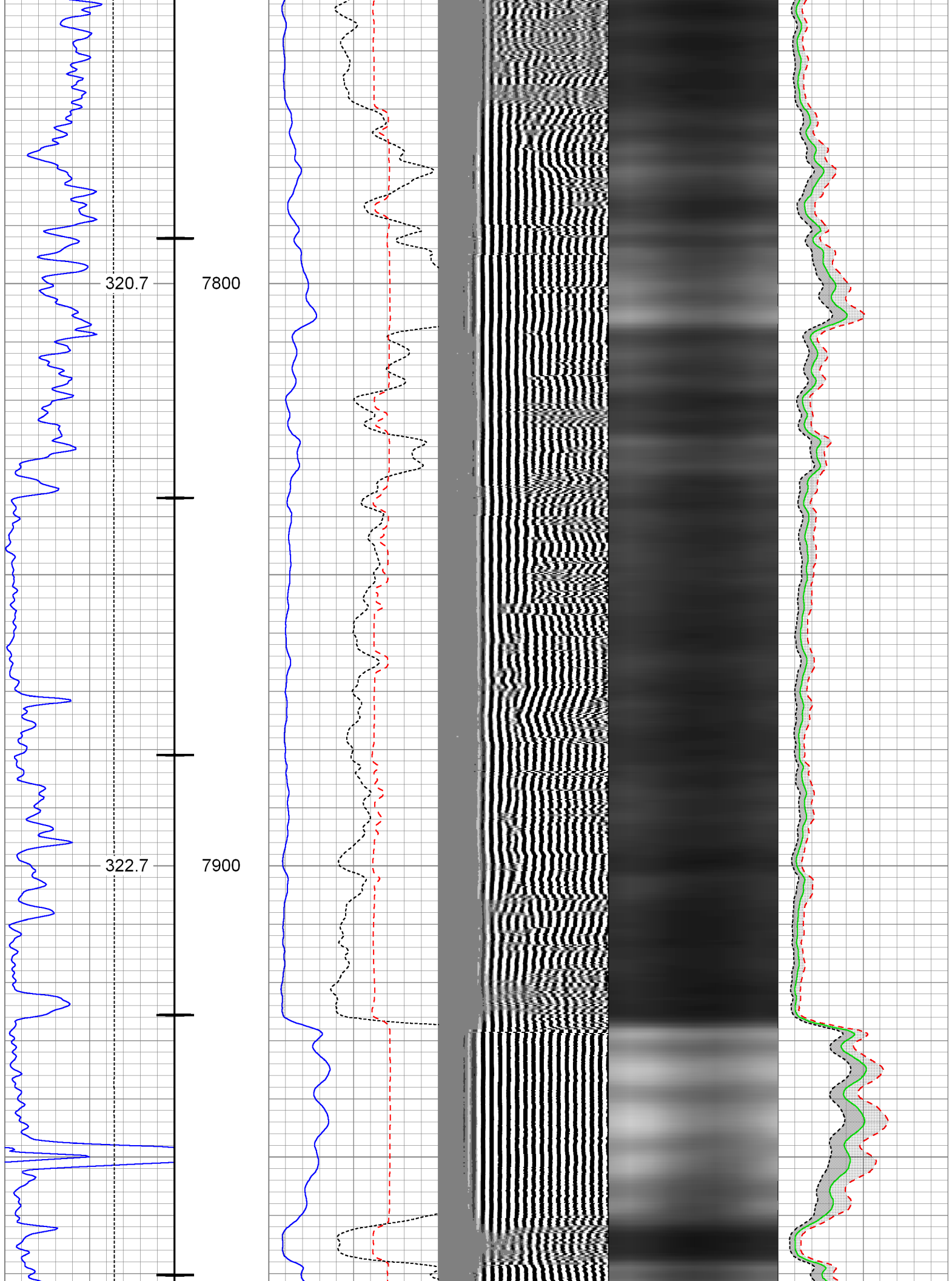


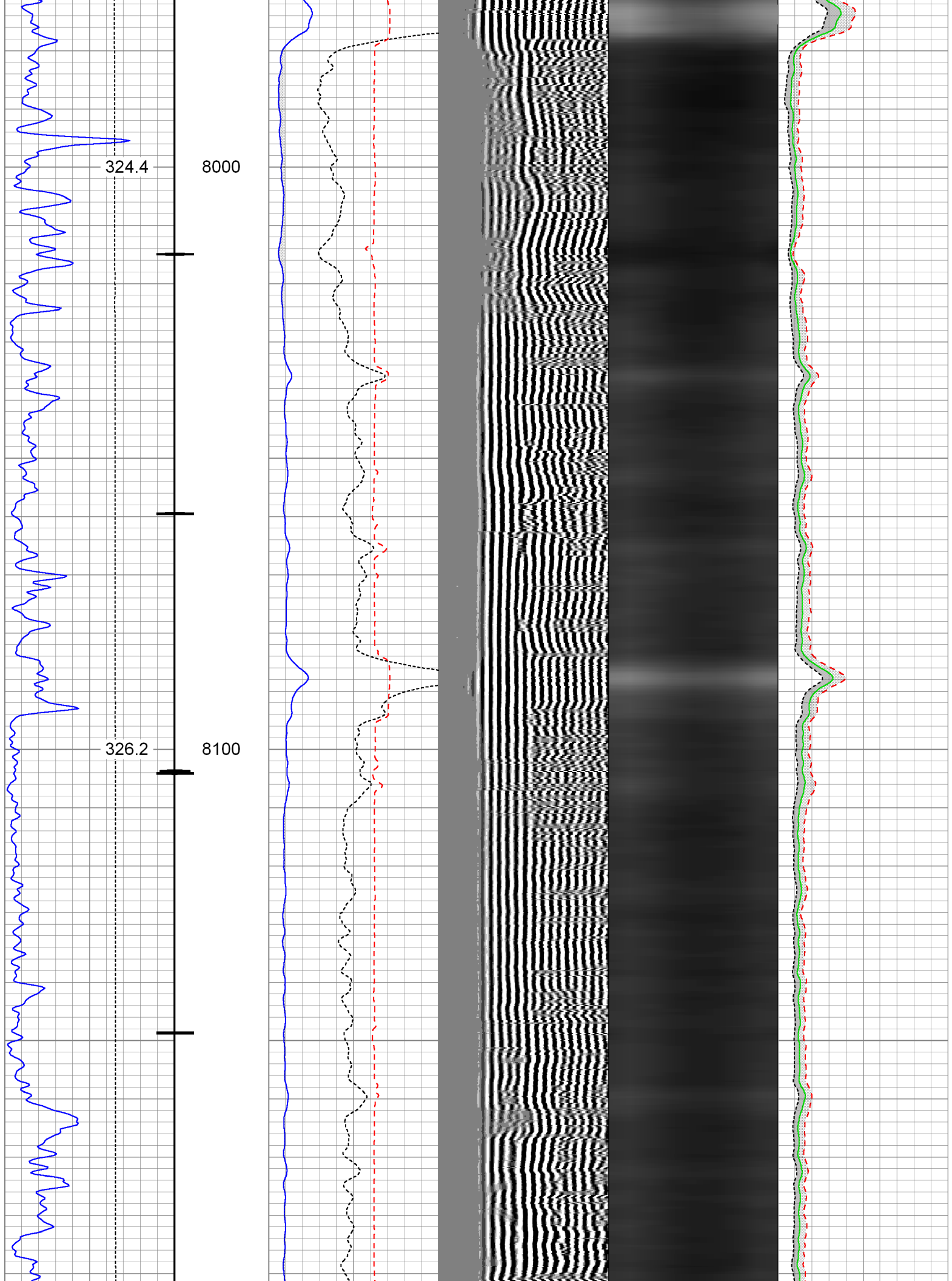
Main Pass: Lower @ 1500psi

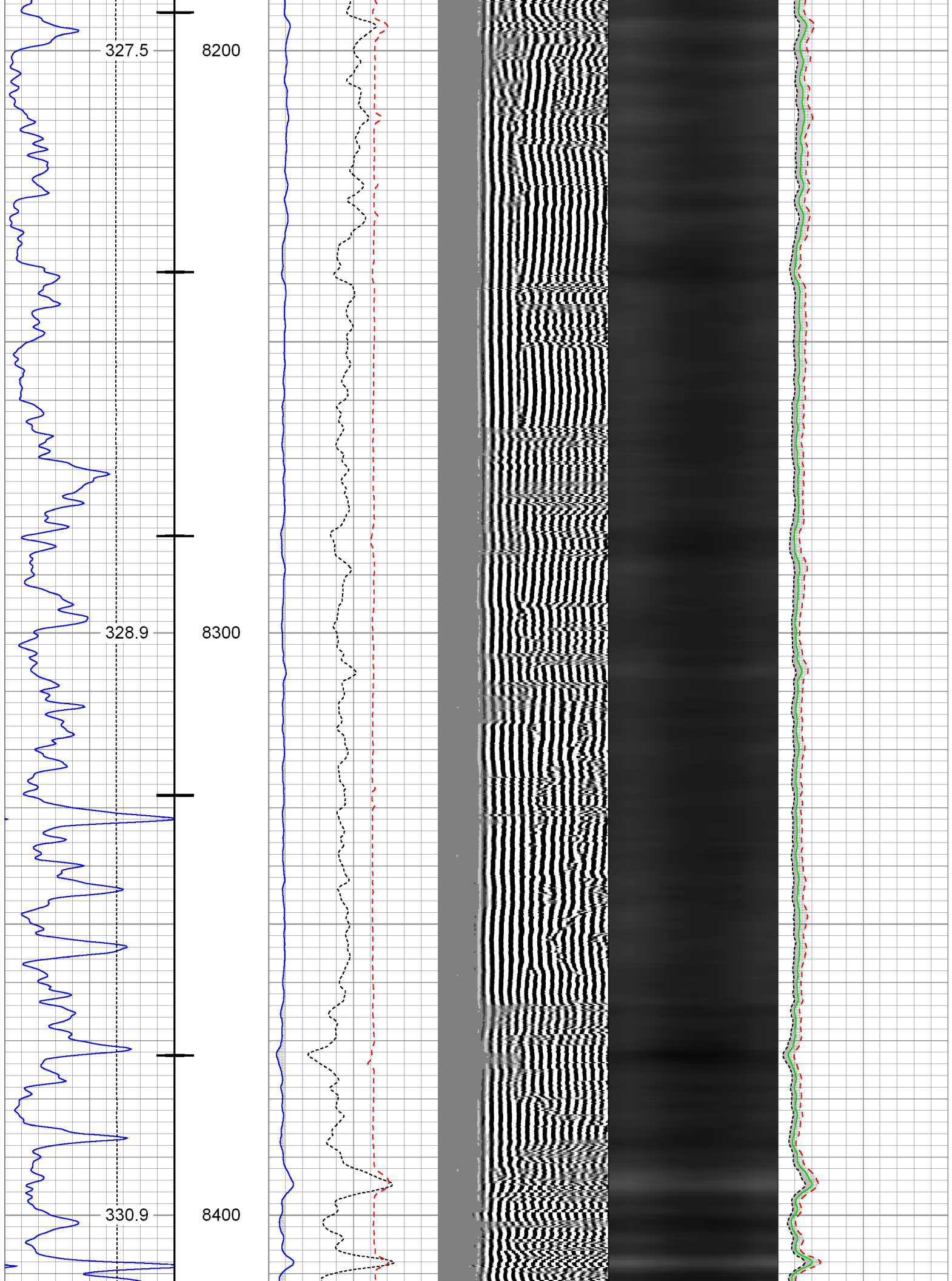
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 Dataset Pathname: pass7
 Presentation Format: rbt007
 Dataset Creation: Sat Aug 31 16:46:46 2013 by Log SCH 111116
 Charted by: Depth in Feet scaled 1:240

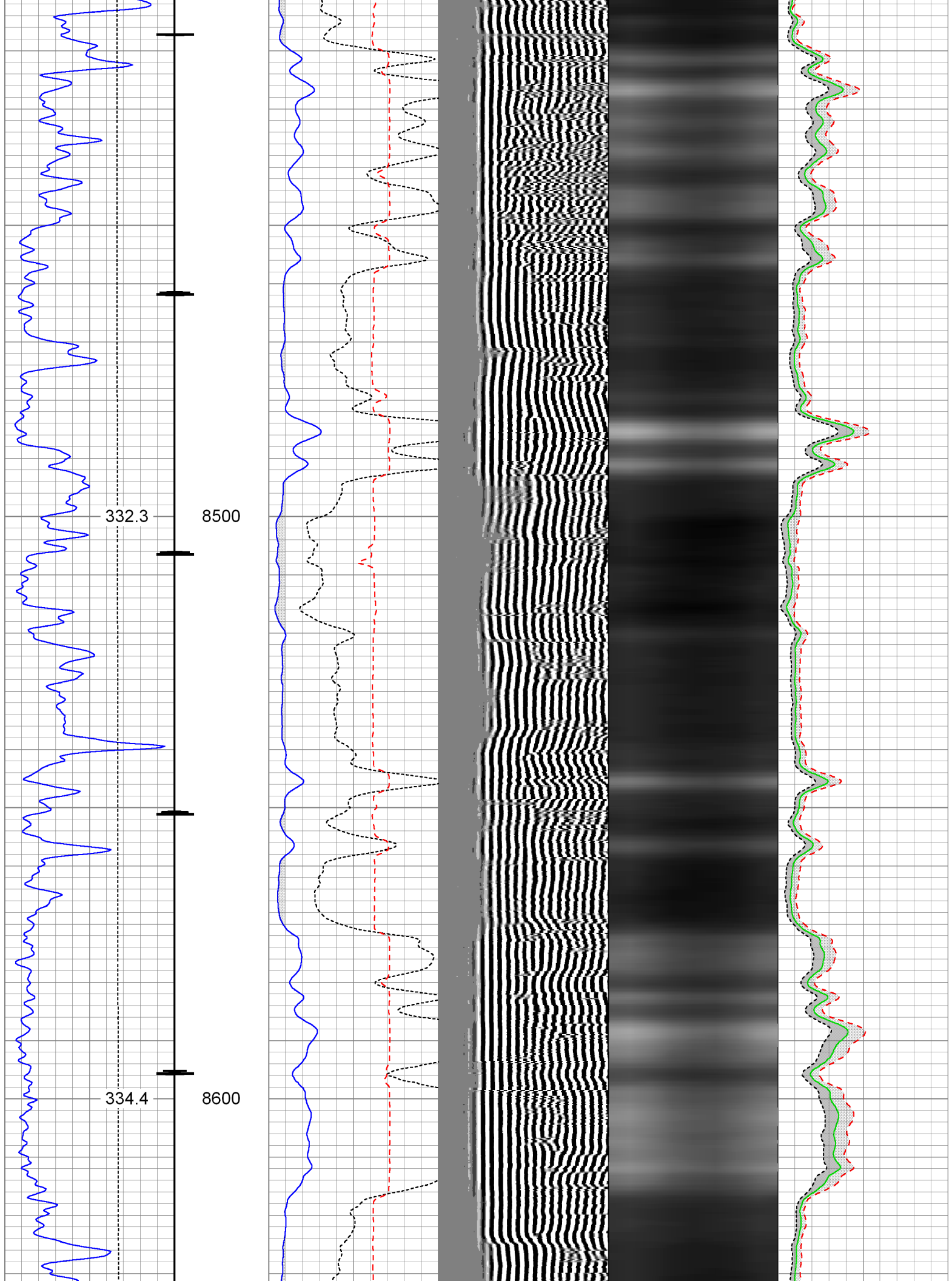


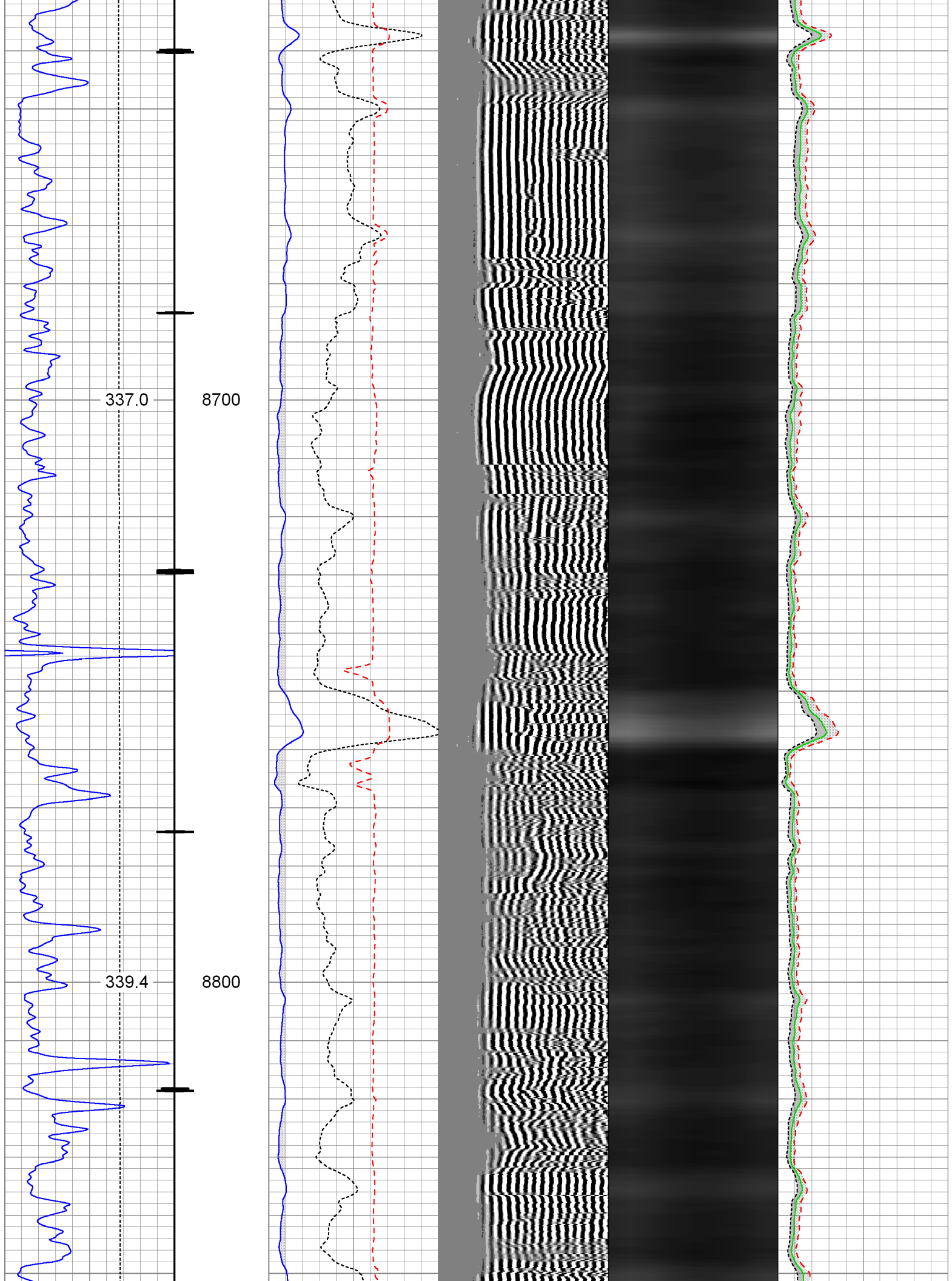


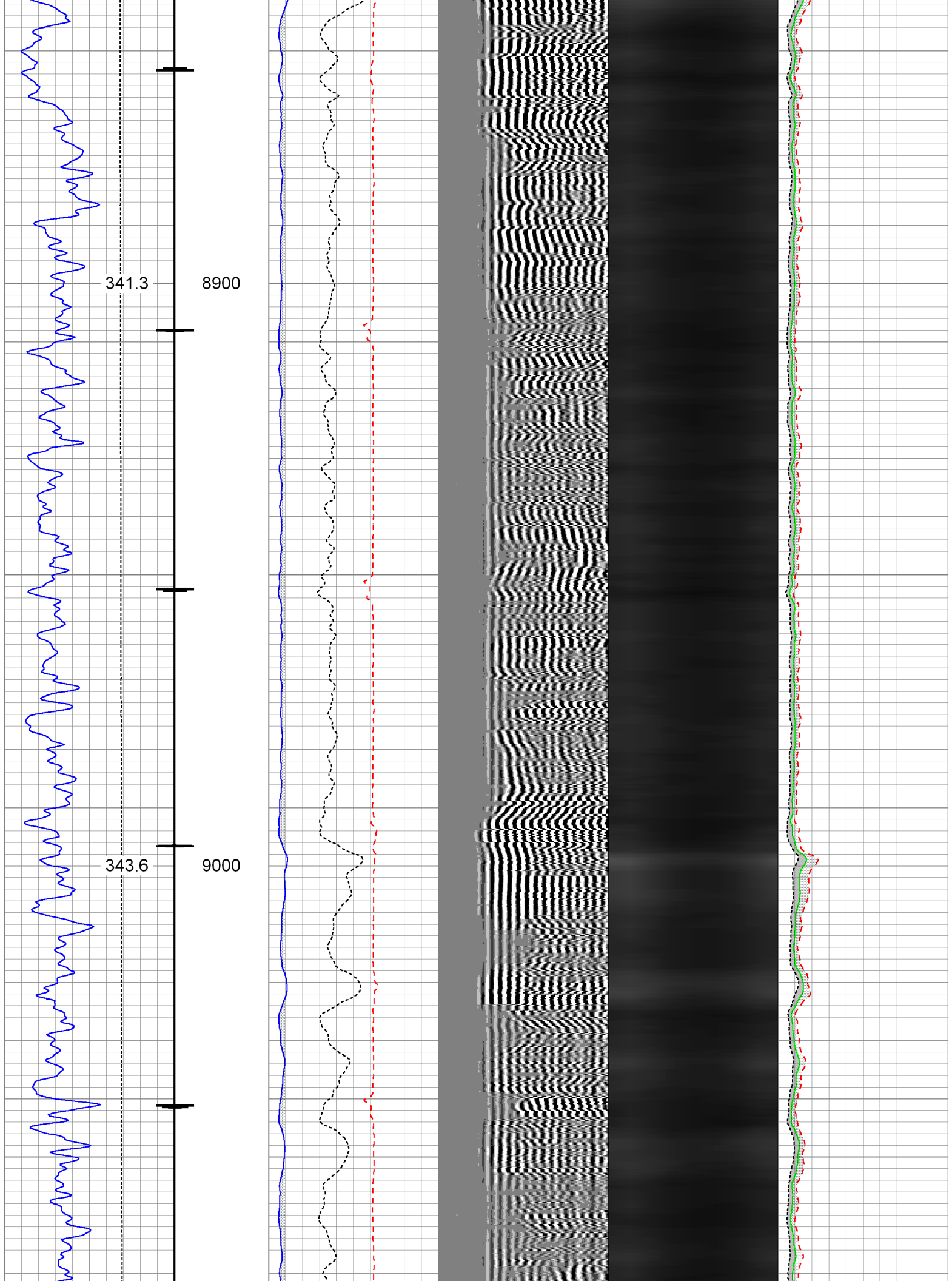


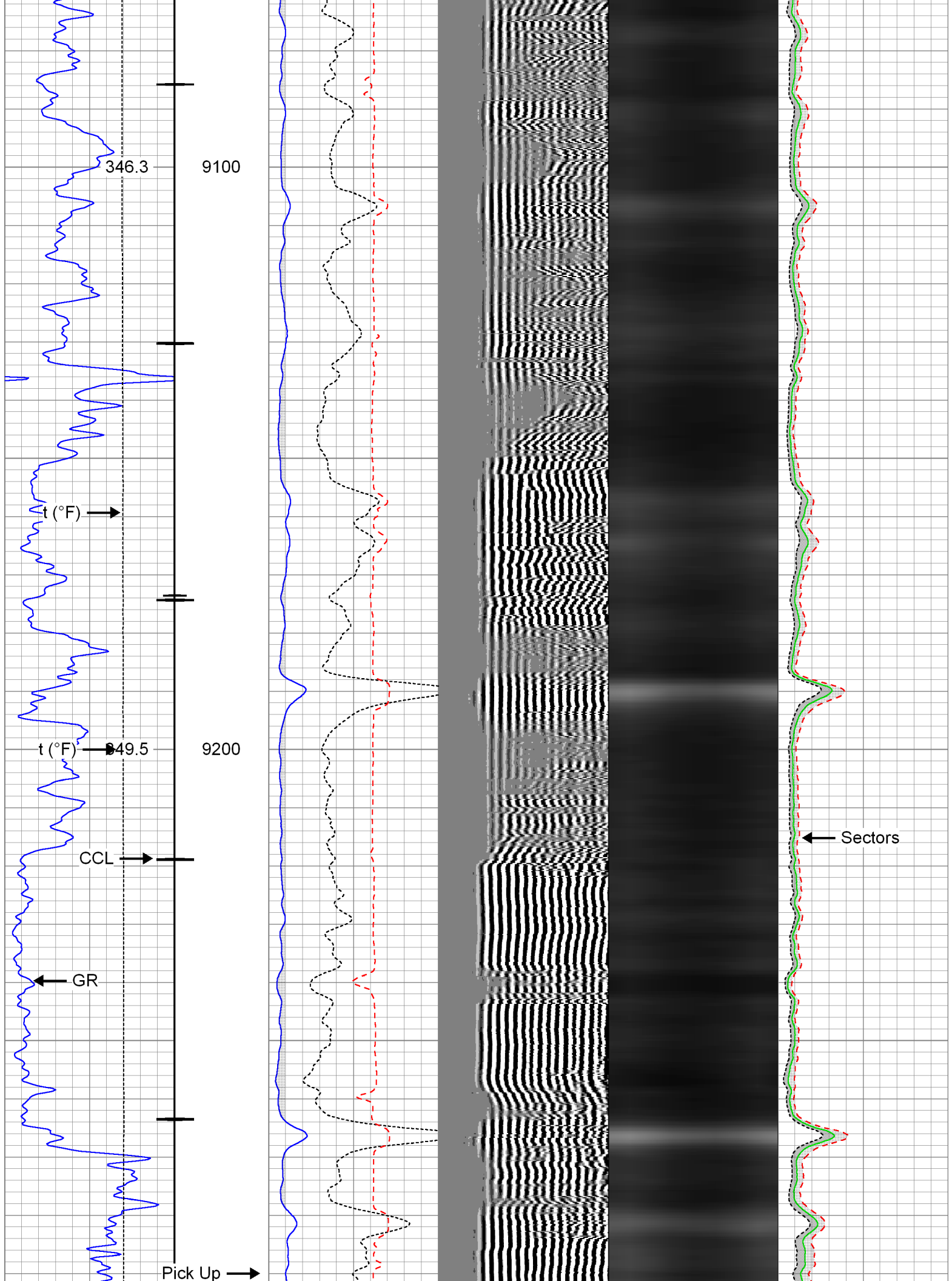


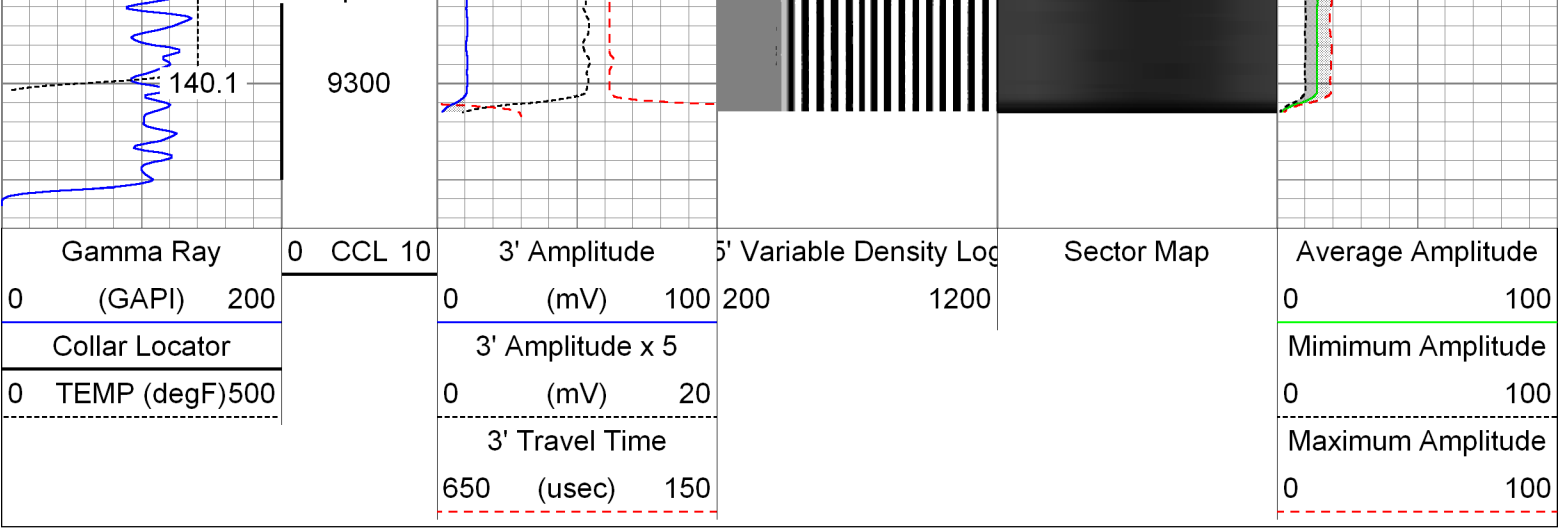














Company

Well

Field

County

State

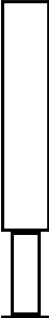
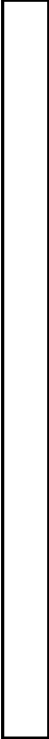
Whiting Oil & Gas Corporation

Razor 26J-2633L

Wildcat

Weld

Colorado

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
RHeadVolt	19.55		Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
			Titan_1_11_16	1.04	1.69	5.00
Temp	16.68		Probe_RADII-C-2-3/4" (FW1302-002in7") Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe	9.21	2.75	100.00
WVF3FT	14.57					
WVFCAL	14.57					
WVFS1	14.57					
WVFS2	14.57					
WVFS3	14.57					
WVFS4	14.57					
WVFS5	14.57					
WVFS6	14.57					
WVFS7	14.57					
WVFS8	14.57					
WVF5FT	13.57					

CCL DCCL GR	6.59		Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
	6.59					
	5.25		Probe_CCL_GR-2.75"Digital (FW1302-1204.58 Probe 2-3/4" Digital CCL / Gamma Ray Combined	2.88	2.75	55.00
			Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
Dataset: 05-123-37495_whiting razor 26j-2633L_RCBL_08-31-13.db: field/well/run1/pass8 Total Length: 23.47 ft Total Weight: 190.00 lb O.D.: 2.75 in						

Calibration Report			
Database File:	05-123-37495_whiting razor 26j-2633L_RCBL_08-31-13.db		
Dataset Pathname:	pass8		
Dataset Creation:	Sat Aug 31 17:14:16 2013 by Log SCH 111116		
Gamma Ray Calibration Report			
Serial Number:	FW1302-120		
Tool Model:	2.75"Digital		
Performed:	Thu Aug 01 09:19:25 2013		
Calibrator Value:	100.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	150.0	cps	
Sensitivity:	0.6800	GAPI/cps	
Segmented Cement Bond Log Calibration Report			
Serial Number:	FW1302-002in7"		
Tool Model:	2-3/4"		
Calibration Casing Diameter:	7.000	in	
Calibration Depth:	126.193	ft	

Master Calibration, performed Tue Aug 13 15:31:38 2013:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.007	0.681	0.800	62.165	89.141	1.434
CAL	0.997	1.034				
5'	0.006	0.664	0.800	62.165	91.562	1.377

S	-0.006	0.664	0.600	62.163	91.562	11.377
SUM						
S1	-0.012	0.574	0.000	100.000	170.660	2.119
S2	-0.006	0.570	0.000	100.000	173.578	1.040
S3	-0.007	0.621	0.000	100.000	159.219	1.083
S4	-0.007	0.723	0.000	100.000	137.095	0.910
S5	-0.006	0.802	0.000	100.000	123.757	0.725
S6	-0.007	0.811	0.000	100.000	122.333	0.808
S7	-0.006	0.733	0.000	100.000	135.329	0.793
S8	-0.006	0.649	0.000	100.000	152.676	0.969

Internal Reference Calibration, performed Tue Jul 30 13:35:49 2013:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.997	1.034	1.000	0.000

Air Zero Calibration, performed Tue Aug 13 15:26:56 2013:

	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 Whiting Oil & Gas Corporation
Well Razor 26J-2633L
Field Wildcat
County Weld
State Colorado