

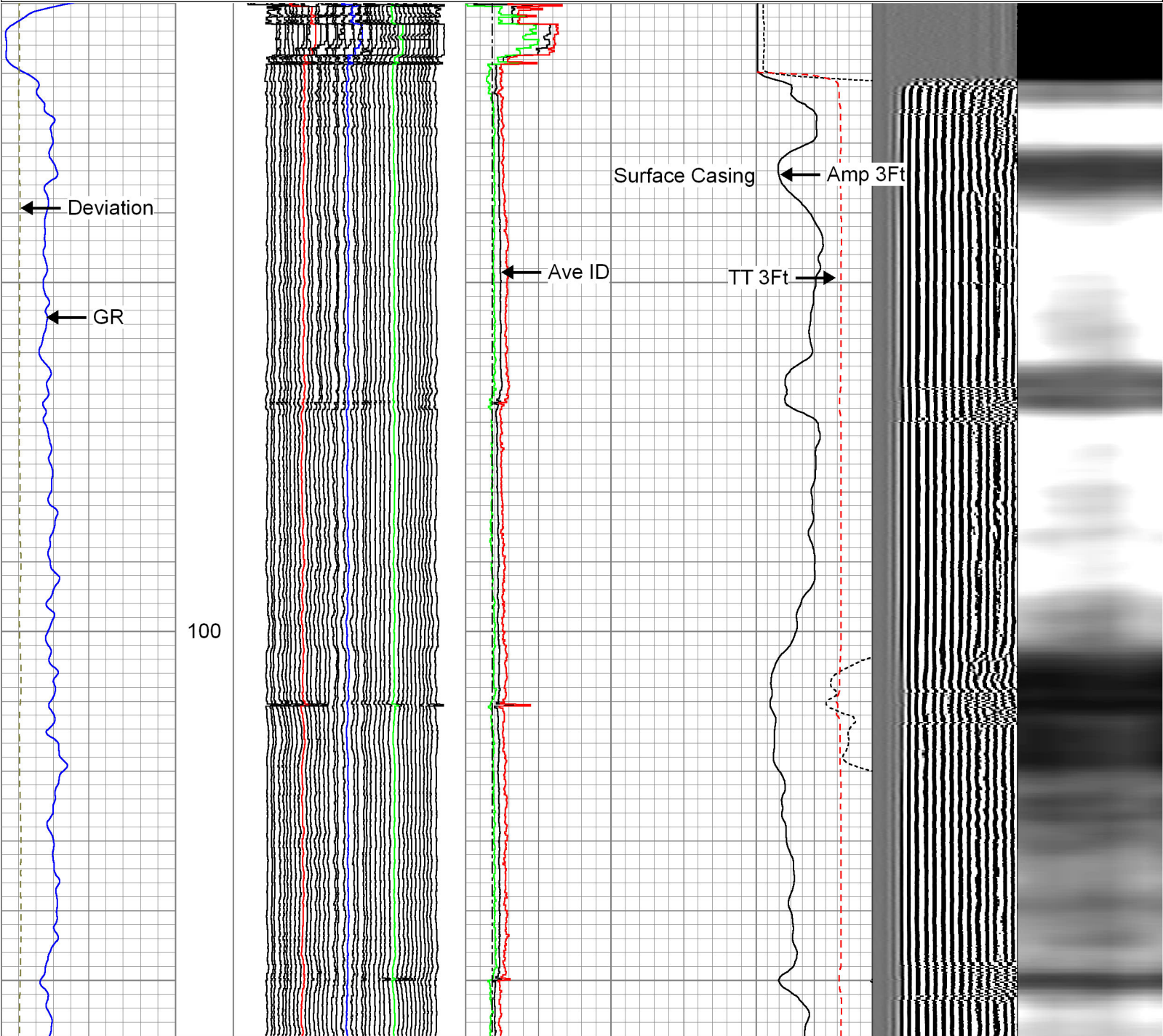


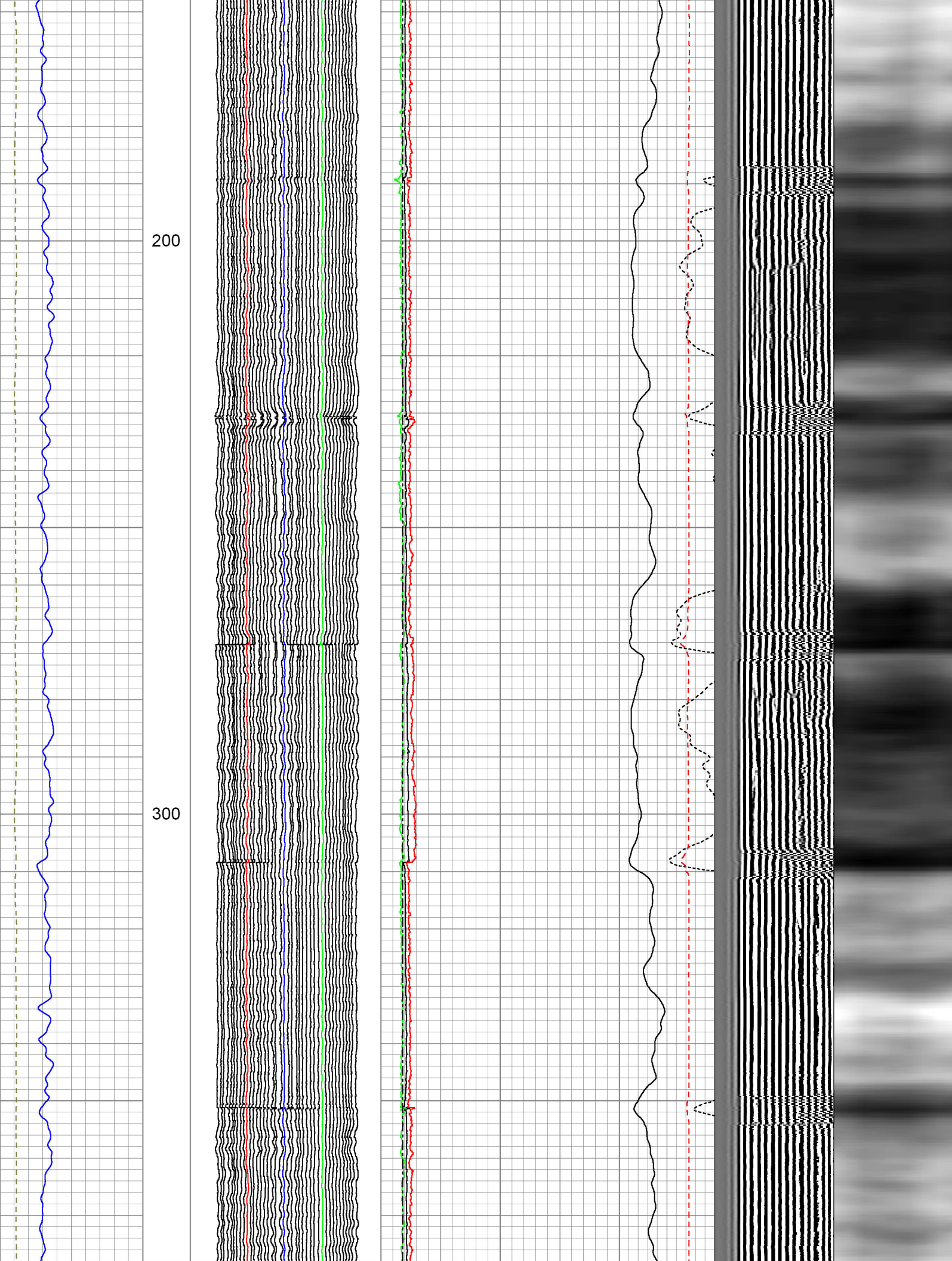
<<< Fold Here >>>
<p>All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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.</p>
Comments
<p>Radial Cement Bond is Primary Log Correlated at ground level with KB Ran RCBL from RBP to surface RCBL Logged with 1500 PSI Induced pressure @ surface Estimated Top of Cement @ 94'</p> <p>Thank you for choosing FMC Technologies Completion Services</p>

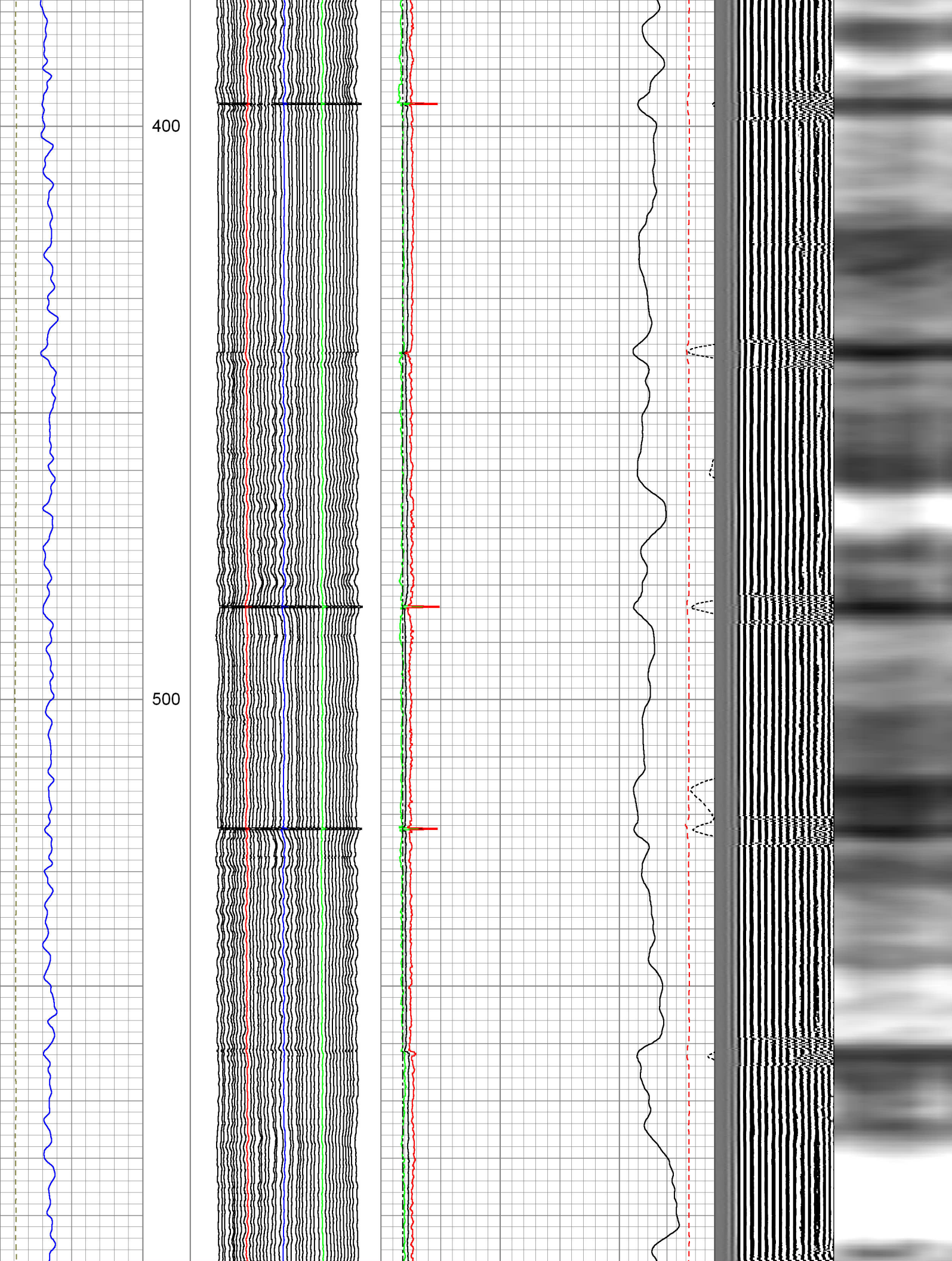


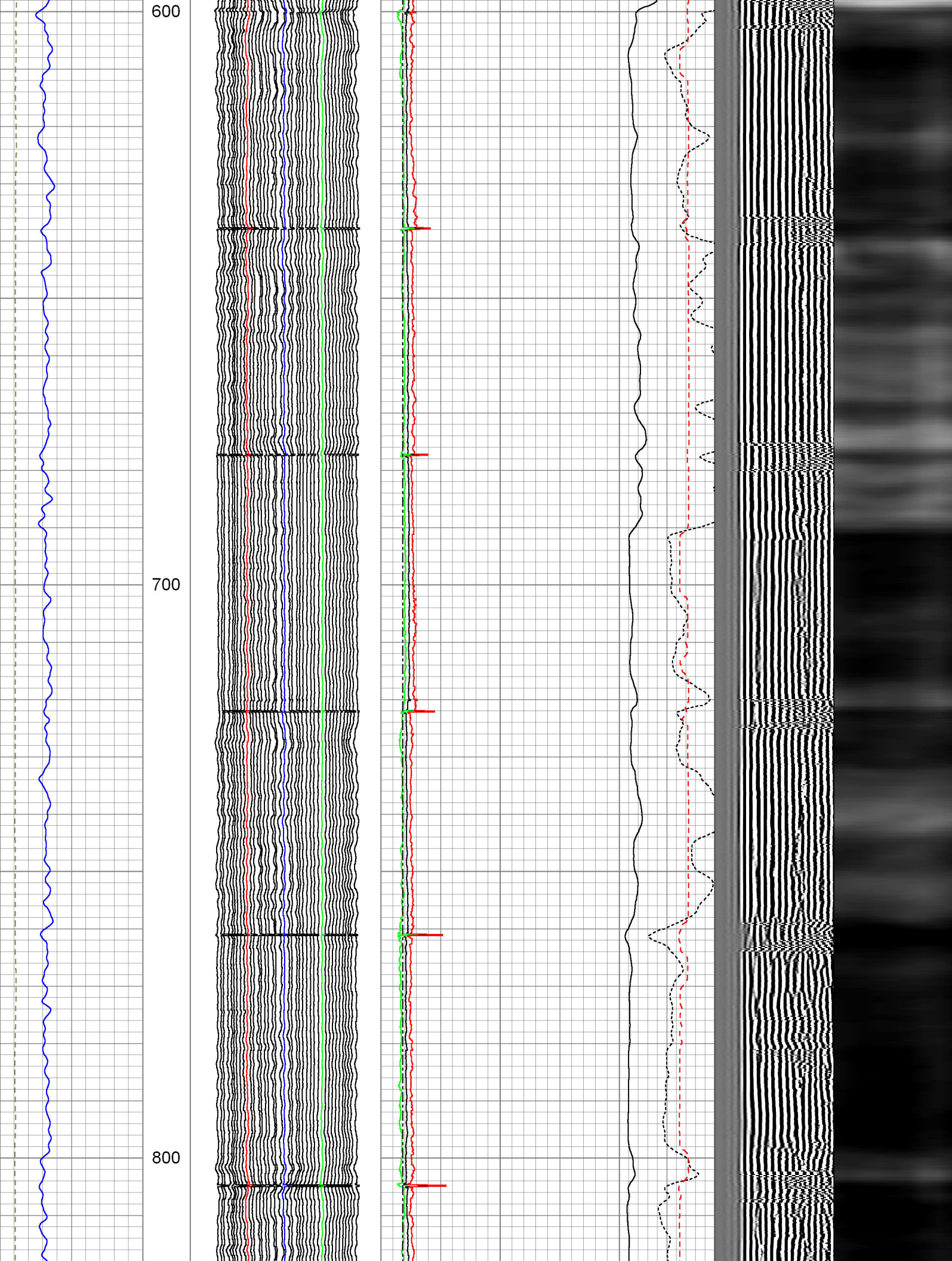
Database File: 05-07-13_whiting_razor 33-2813h_cil_rbl.db
Dataset Pathname: pass11.4
Presentation Format: 7cil40pr
Dataset Creation: Fri May 17 13:31:17 2013 by Calc SCH 120430
Charted by: Depth in Feet scaled 1:240

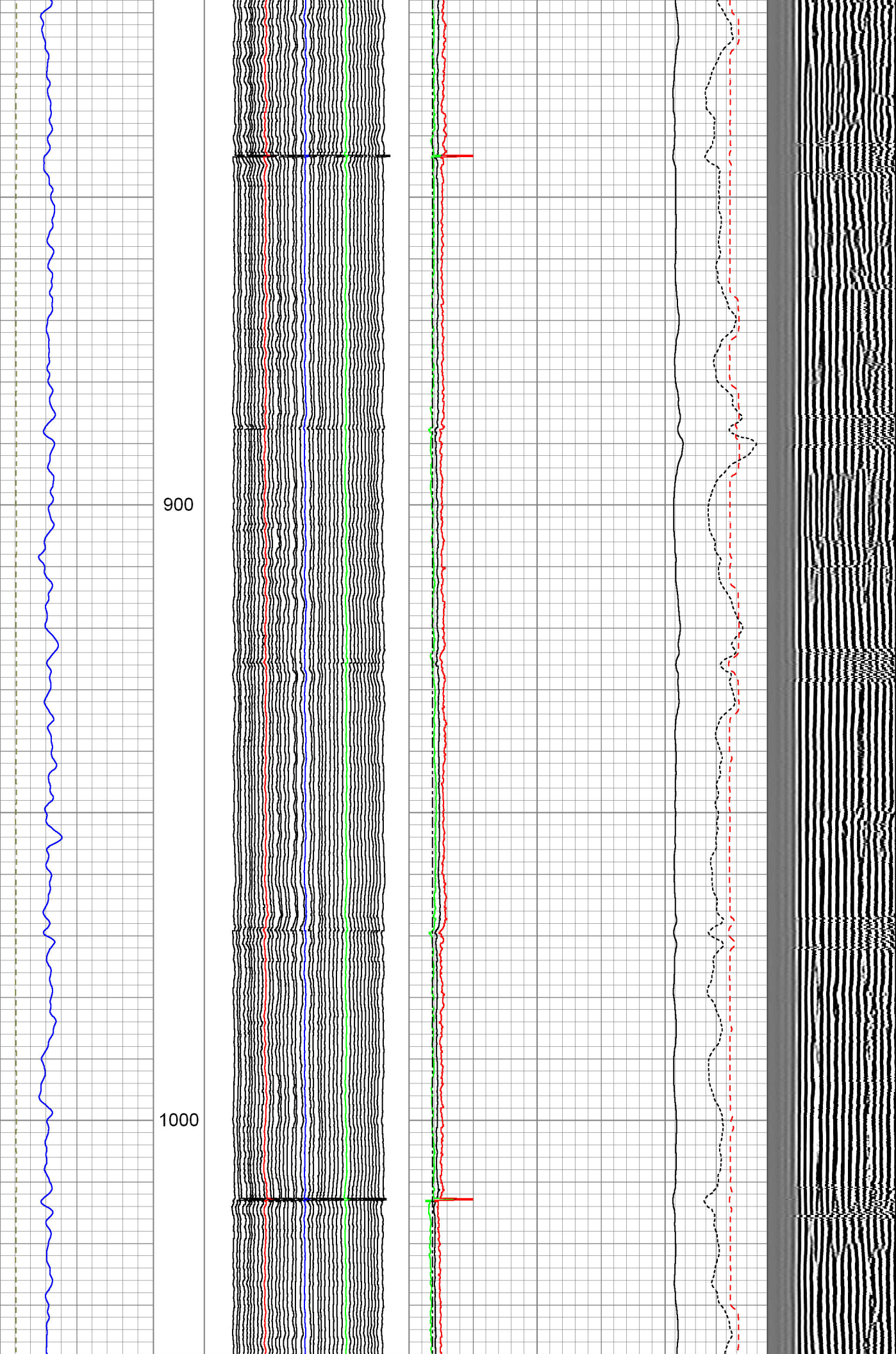
Gamma Ray			Caliper #10			Average ID			Thickness (in)	3' Amp		5' Variable Density Log	Sector Image Map
0	(GAPI)	120	0.65	(in)	8.65	5.8	(in)	7.8		0	100		
Wellbore Deviation			Caliper #20			Minimum ID				3' Amp X 5			
-10	(°)	90	-0.85	(in)	7.15	5.8	(in)	7.8		200	1200		
			Caliper #30			Maximum ID			3' TT				
			-2.35			(in)	5.65	5.8	(in)	7.8	650	150	
						Casing Nominal ID							
						6			(in)	7			





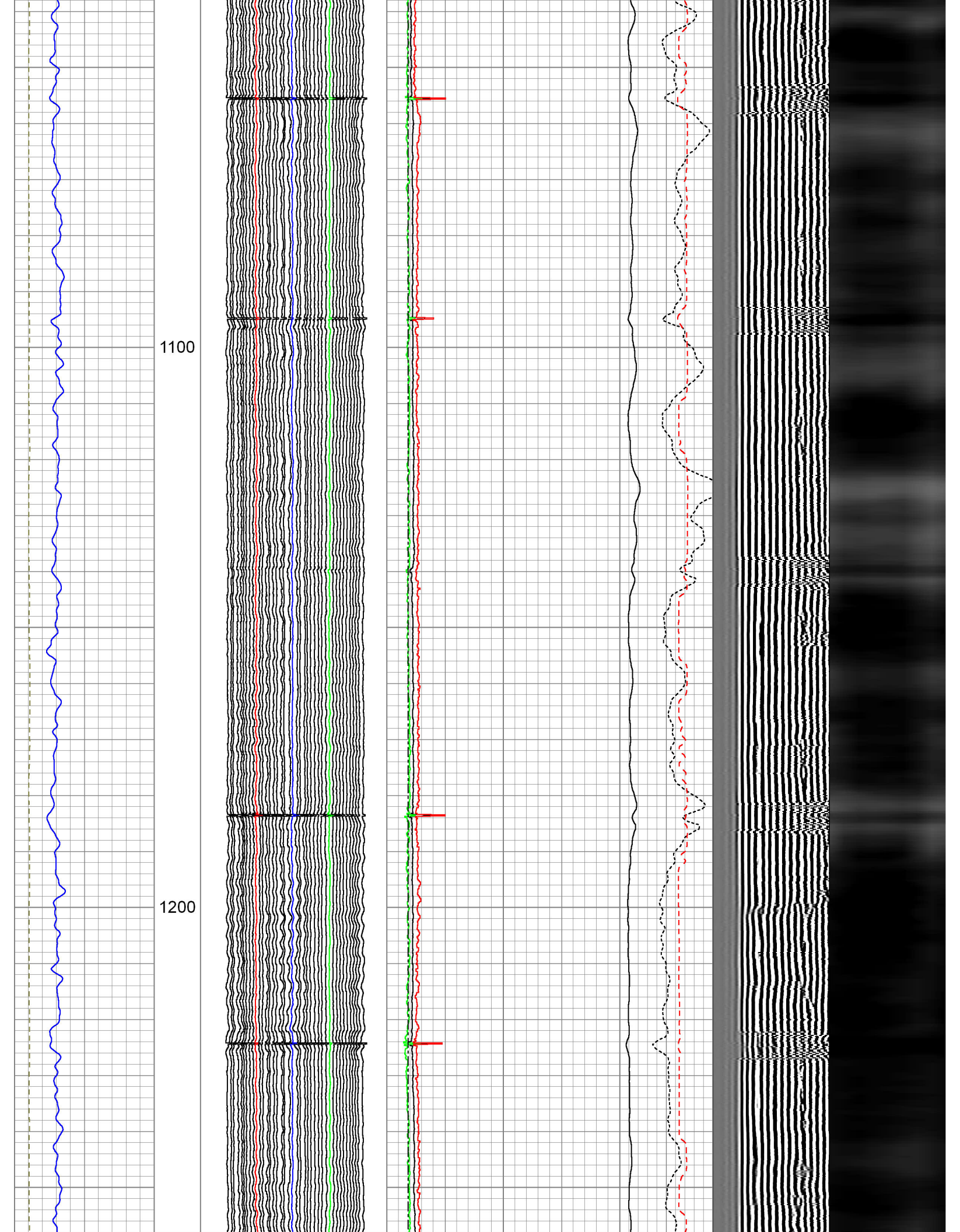






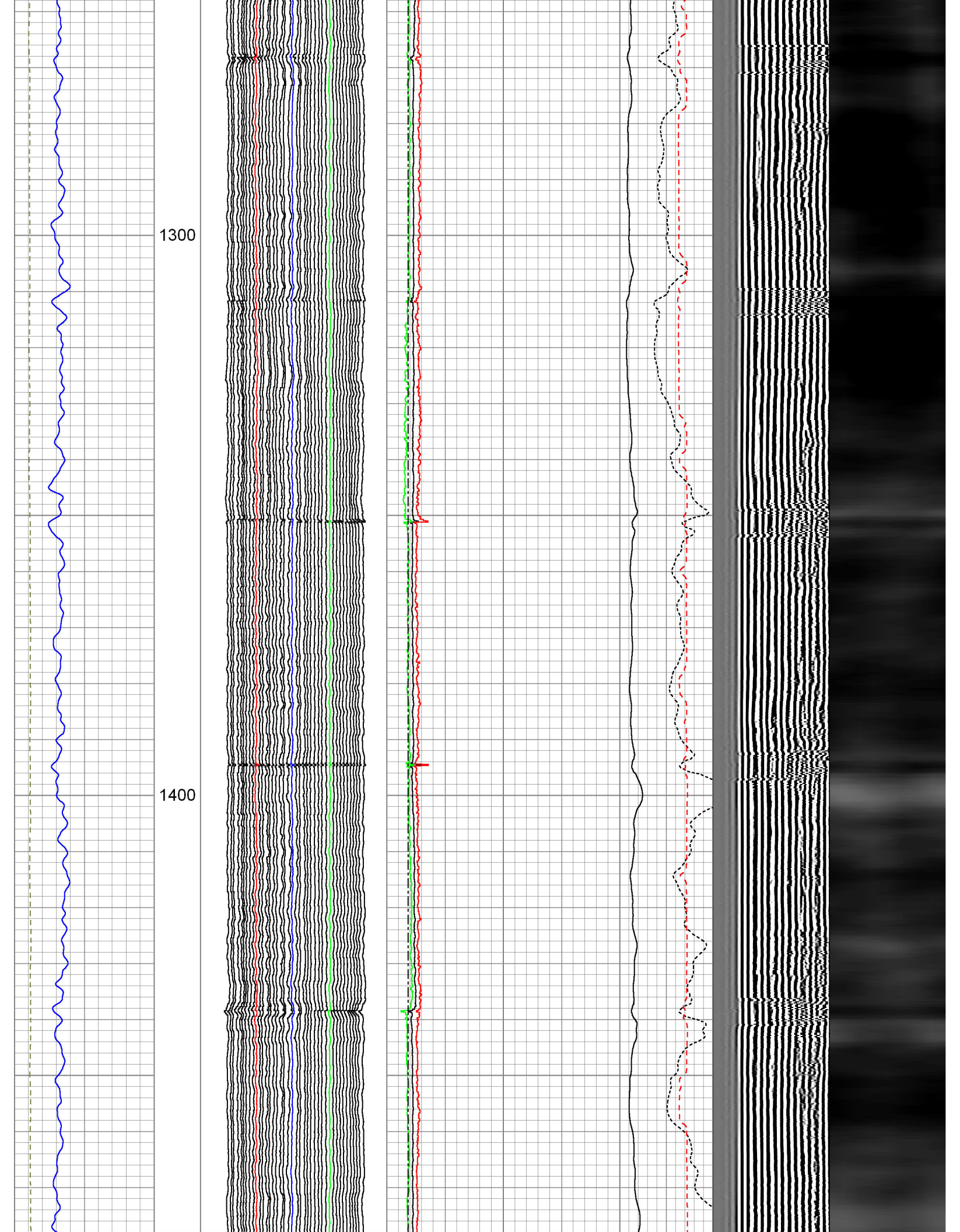
1100

1200



1300

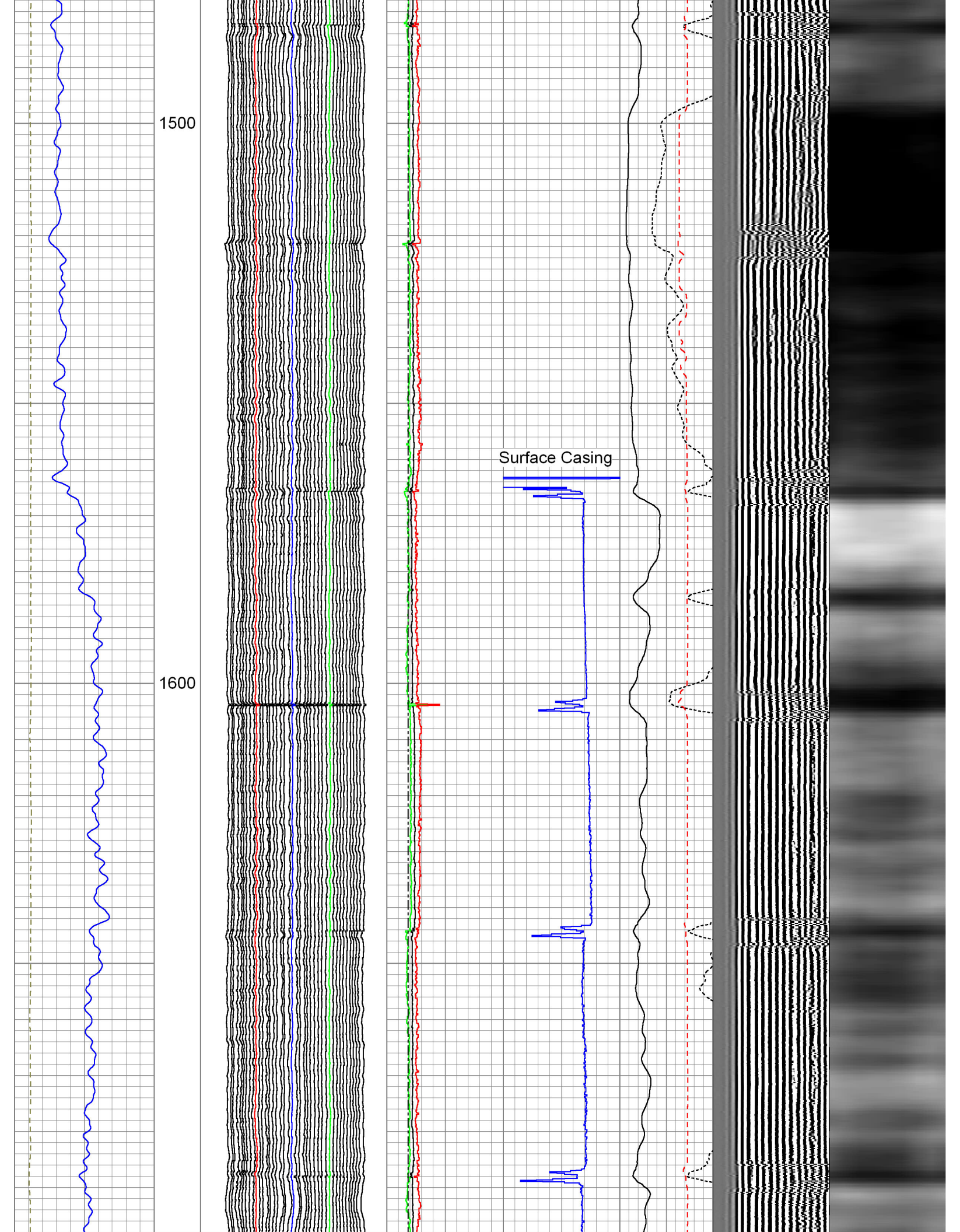
1400

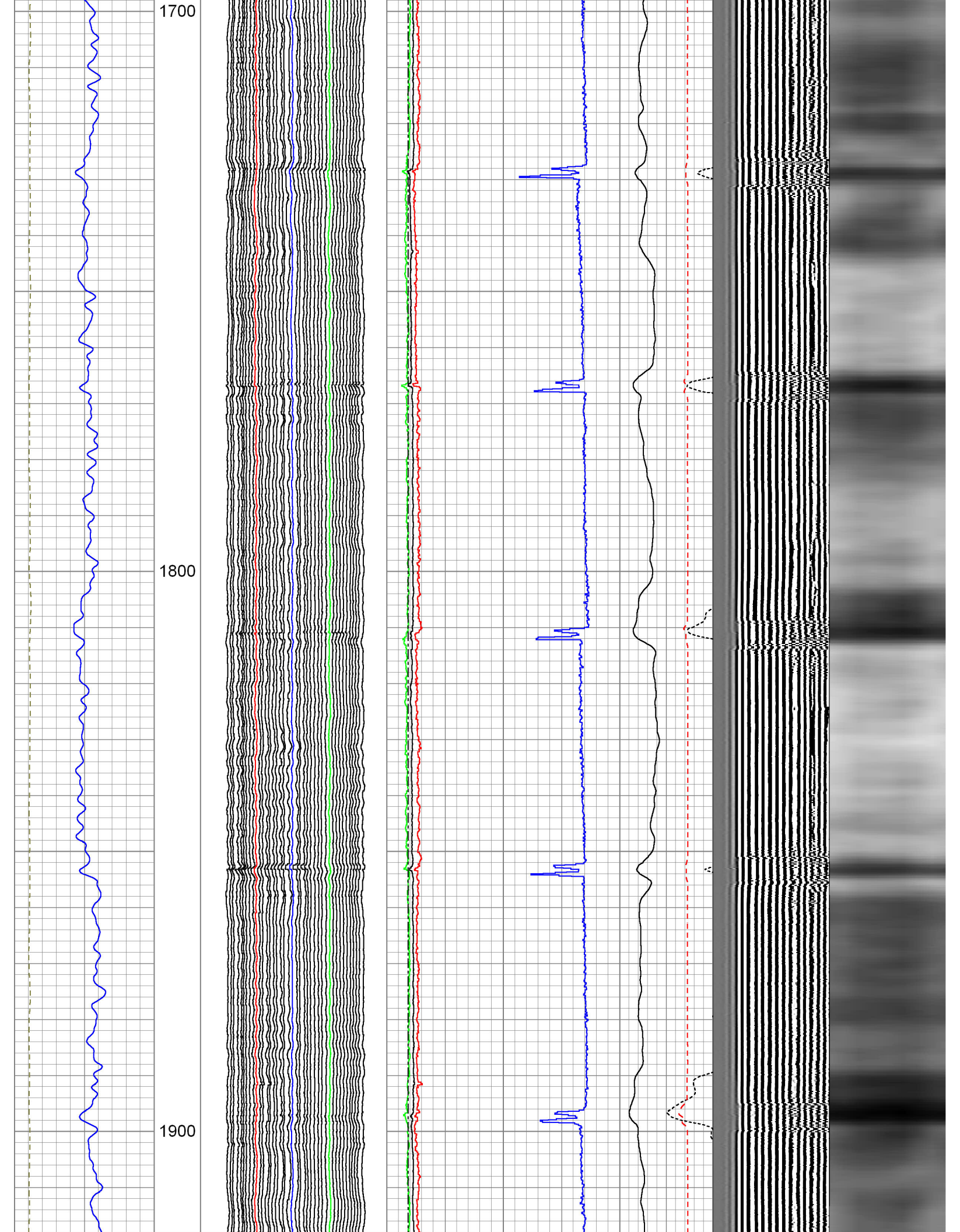


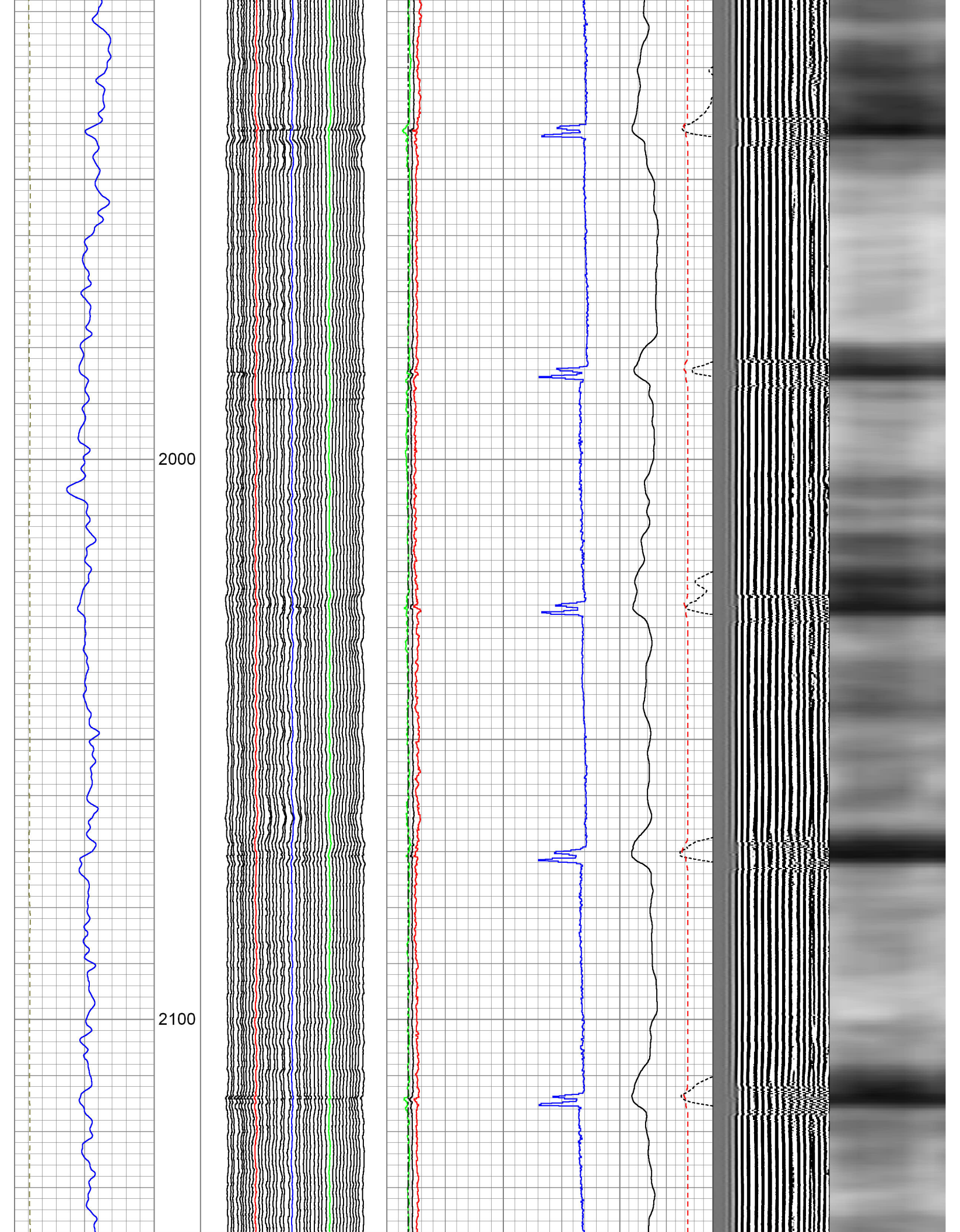
1500

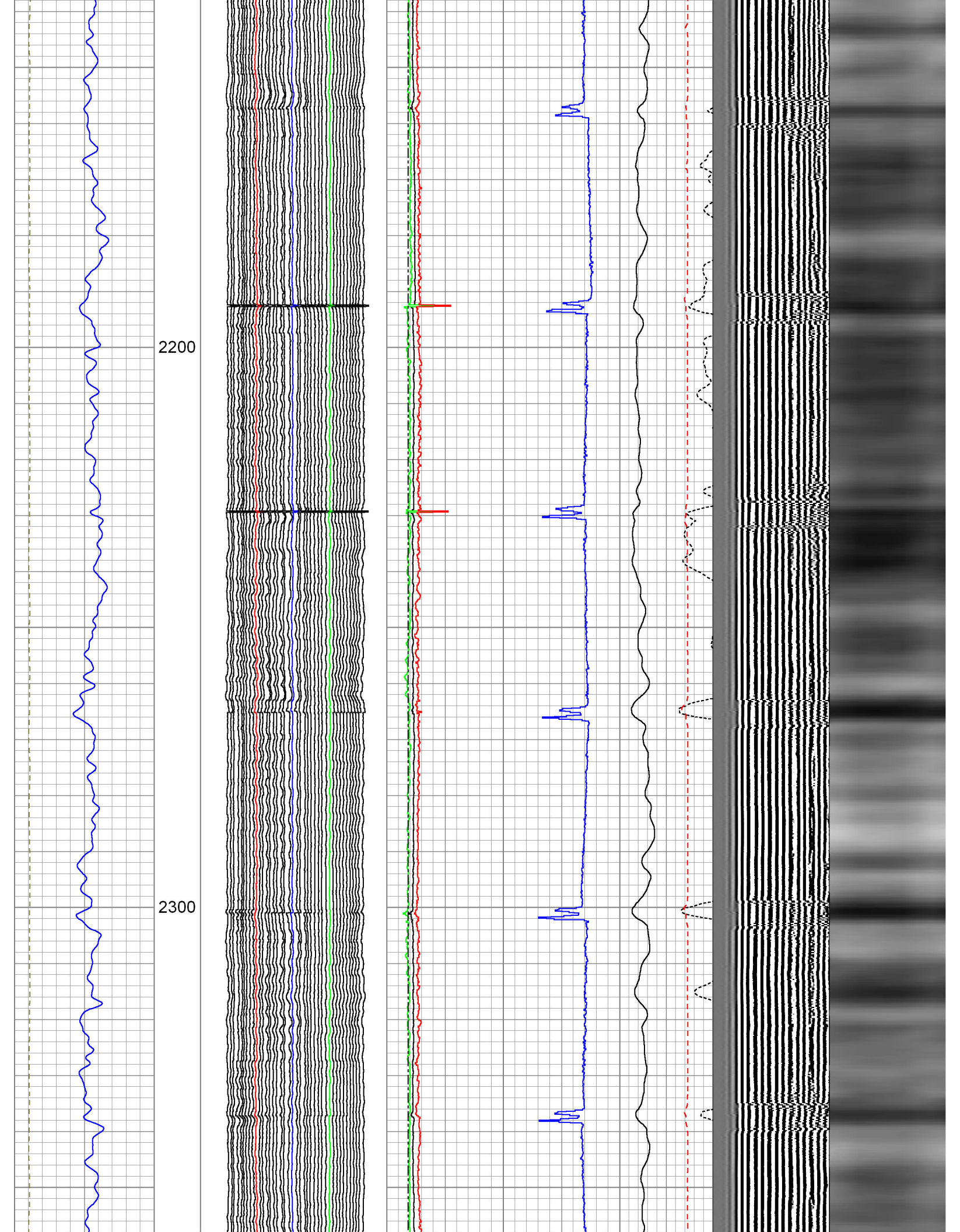
1600

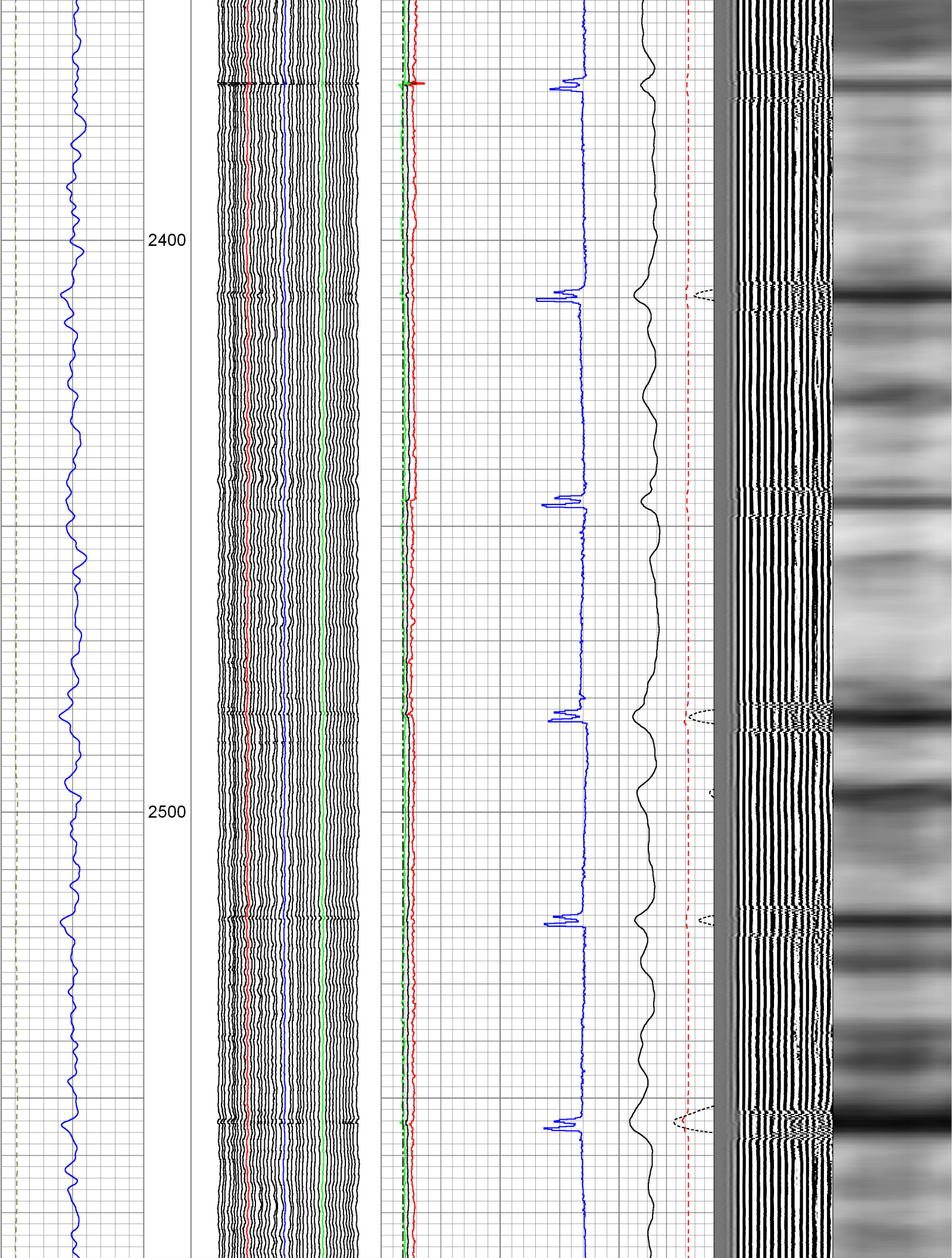
Surface Casing

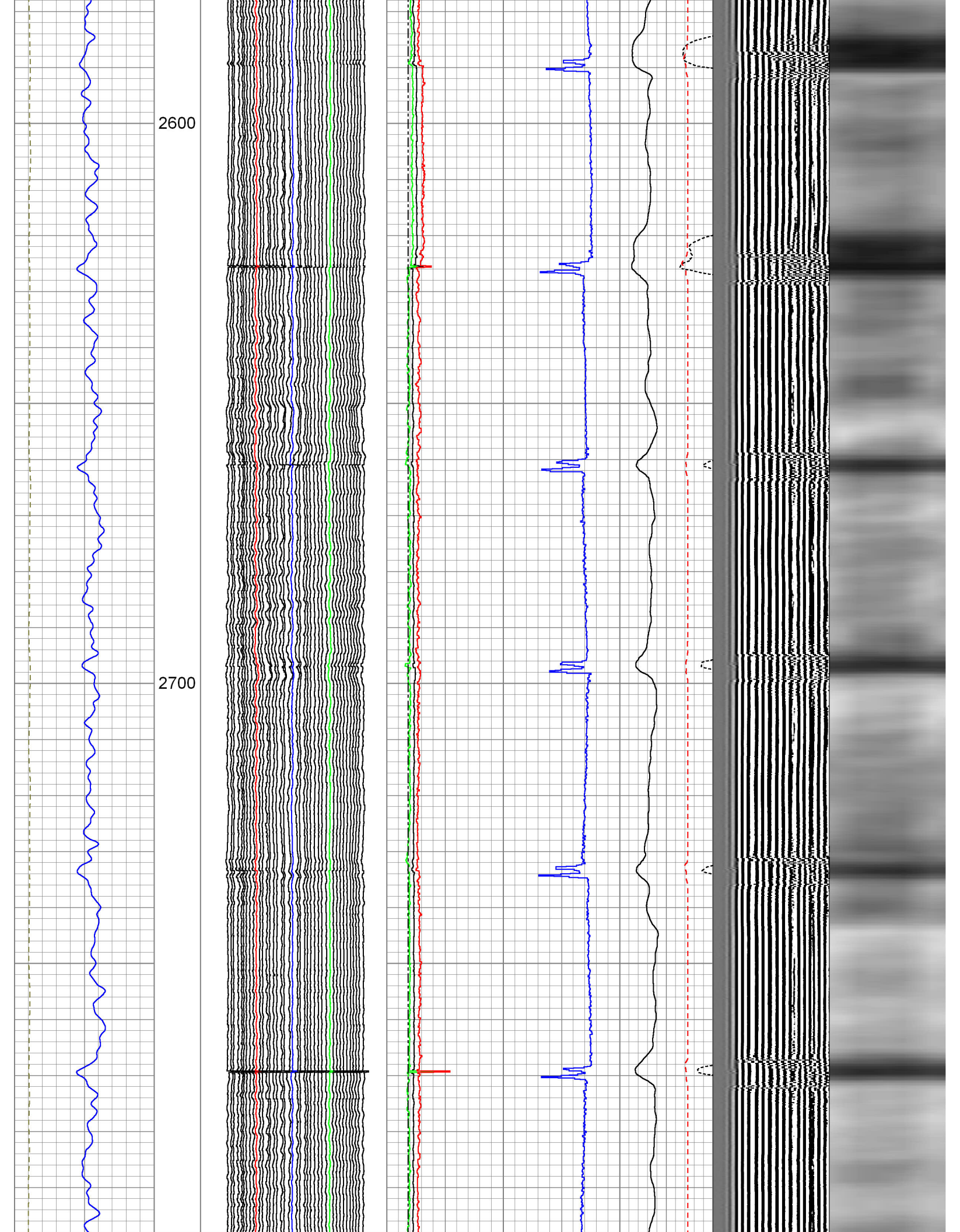


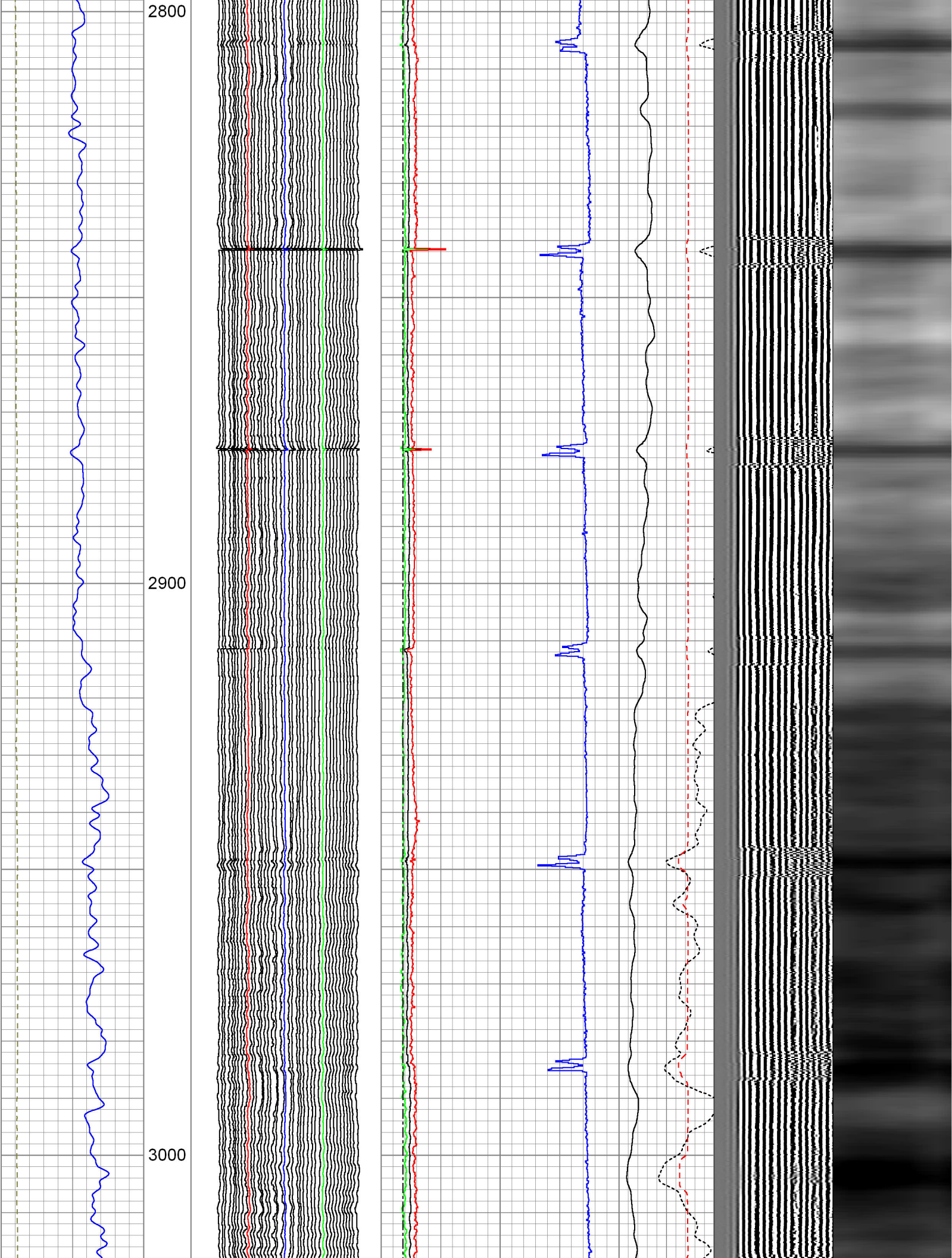


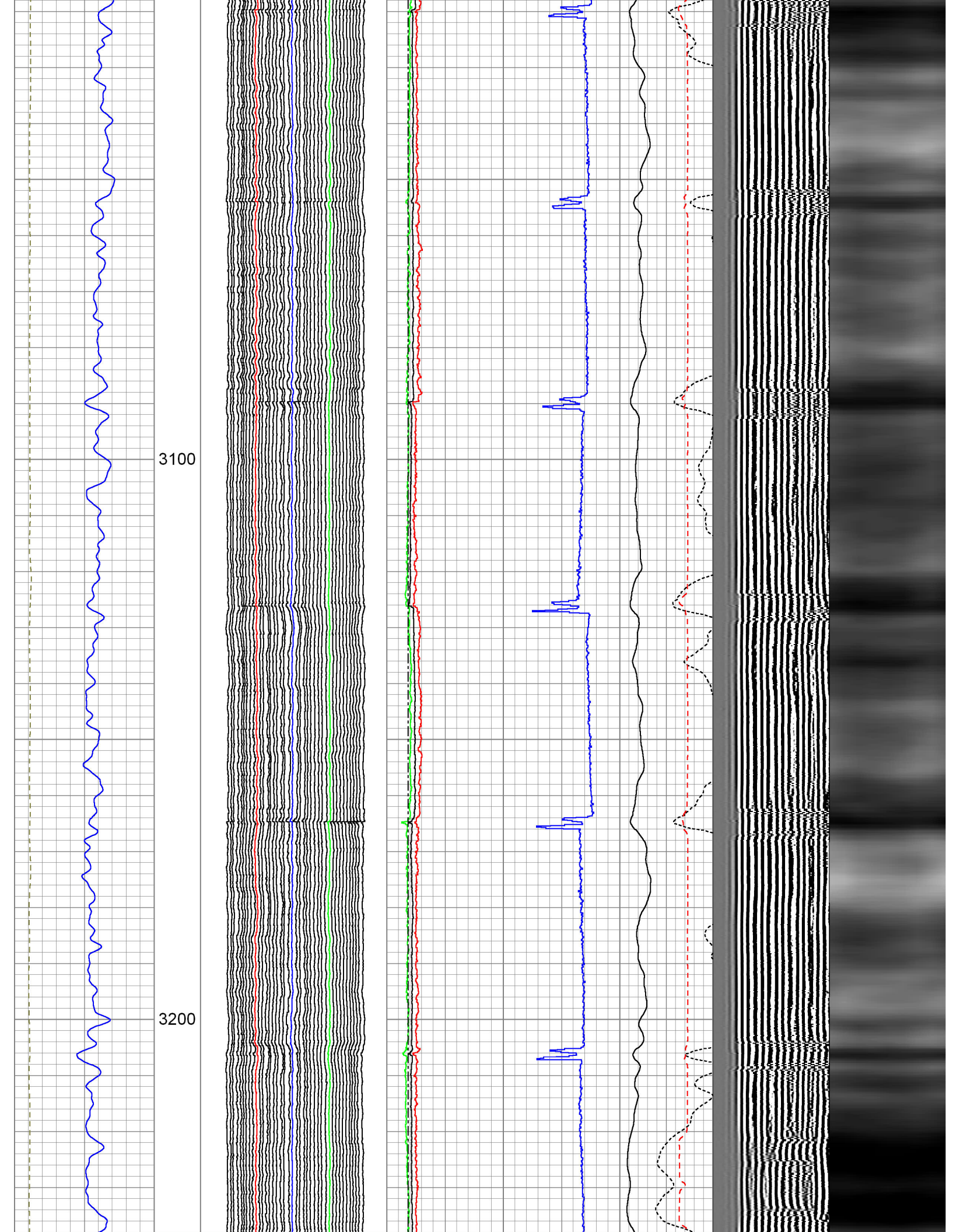


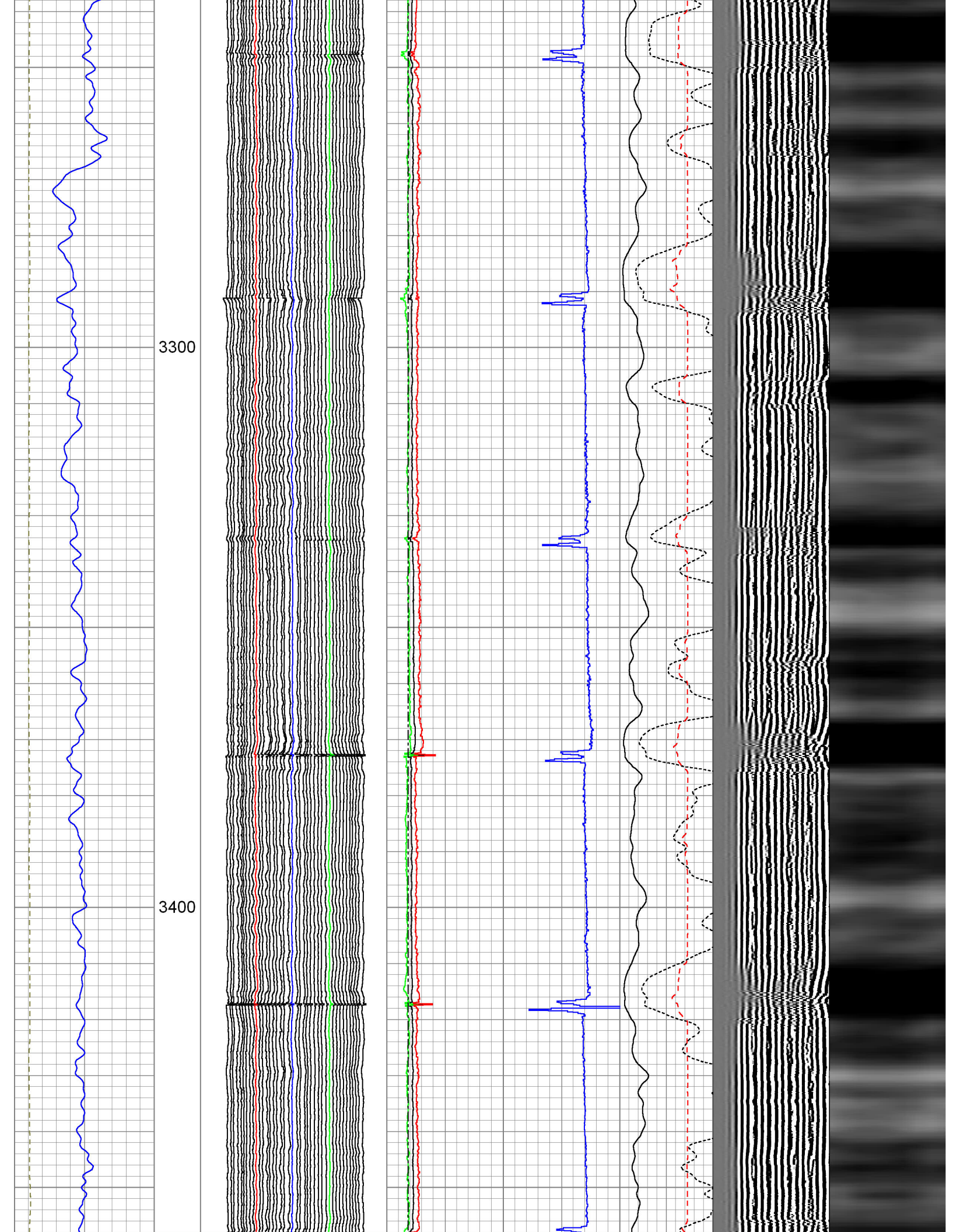


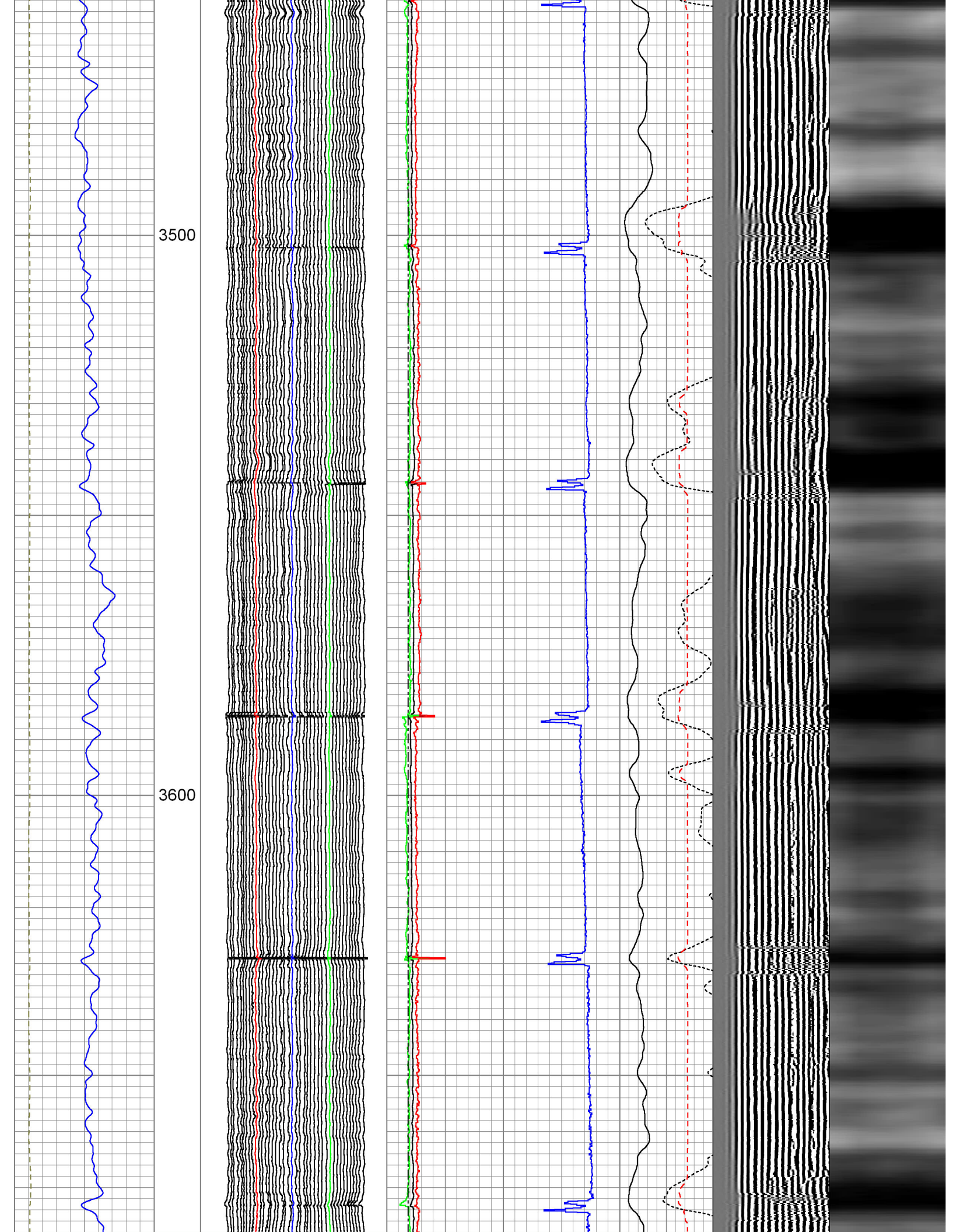


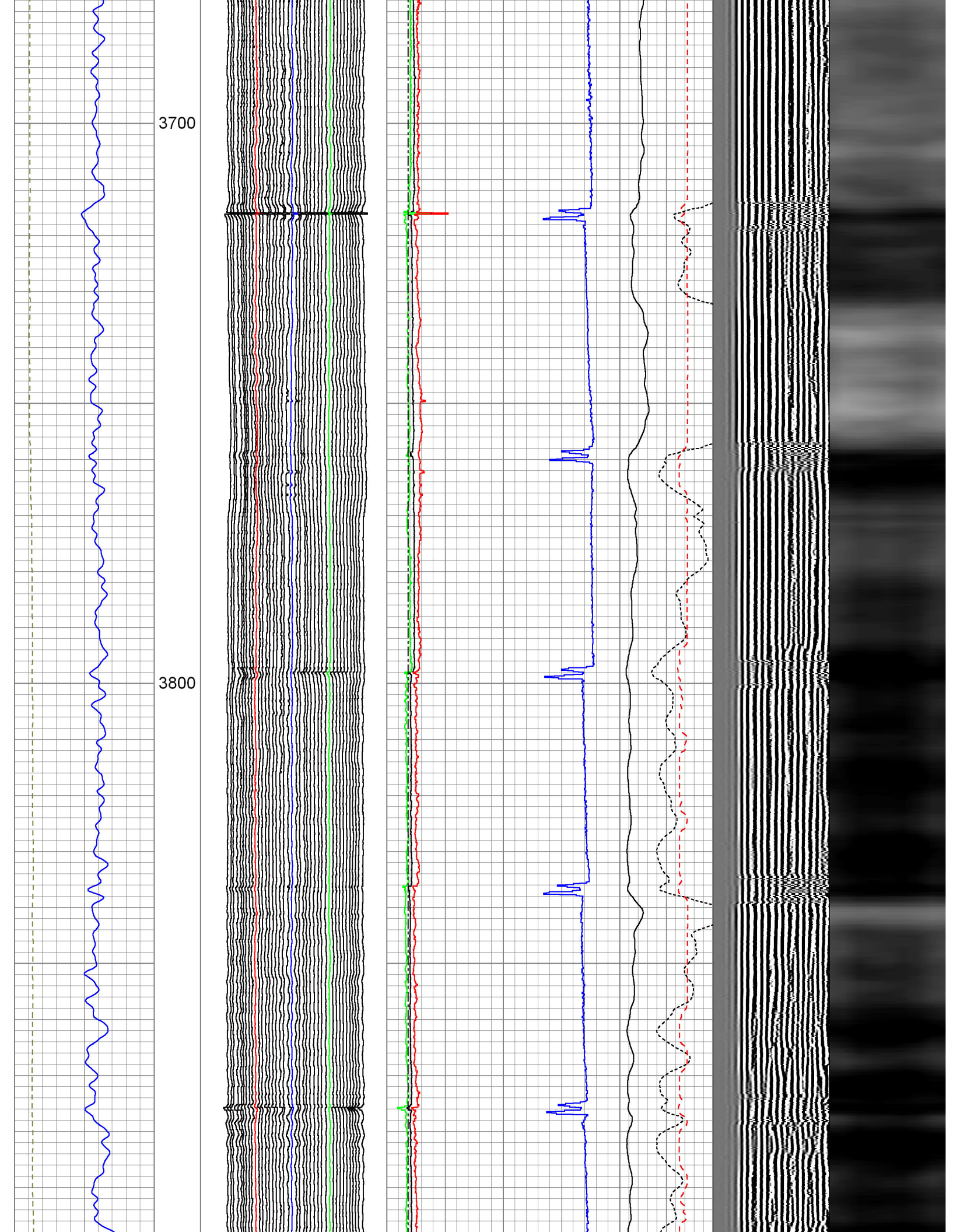








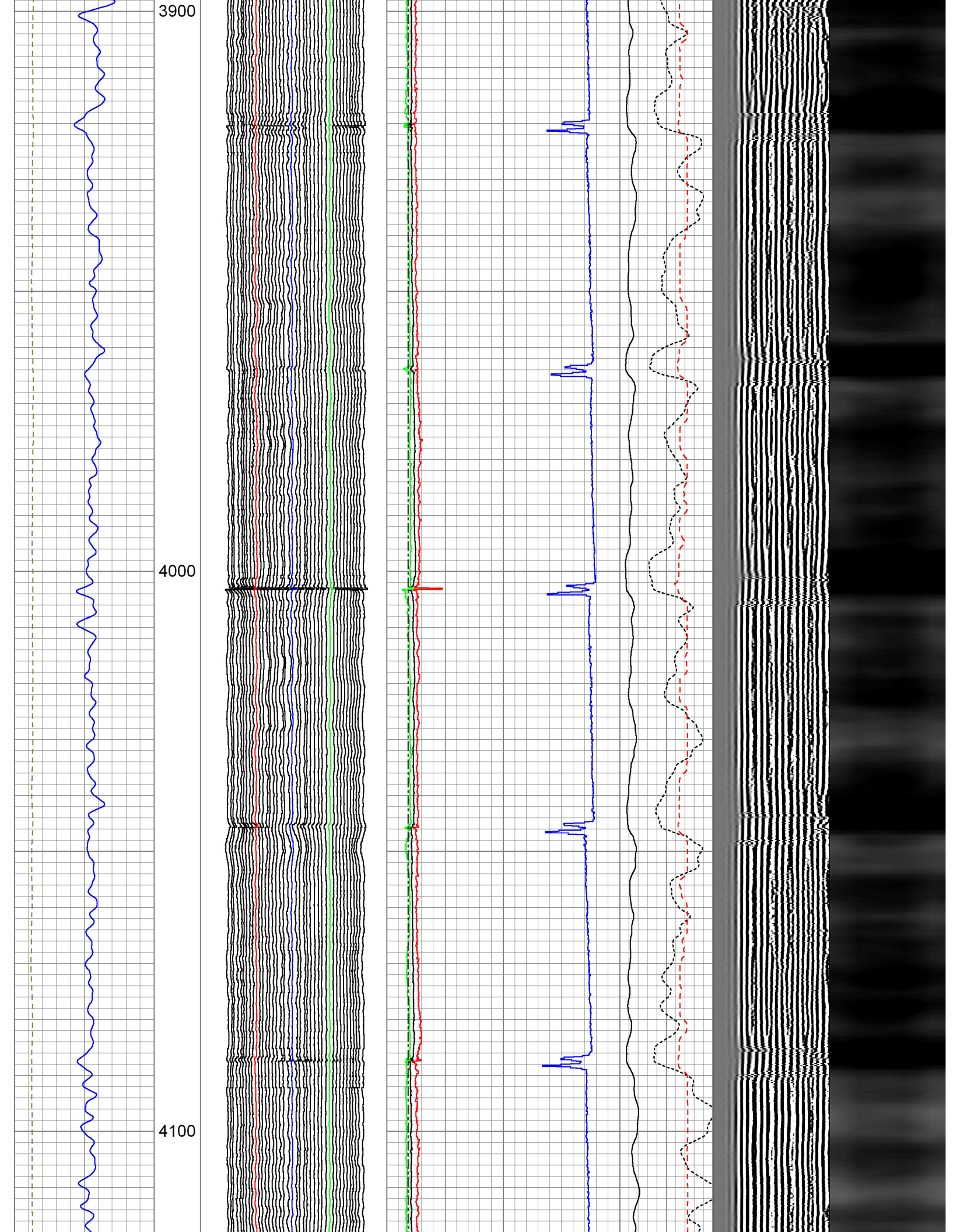


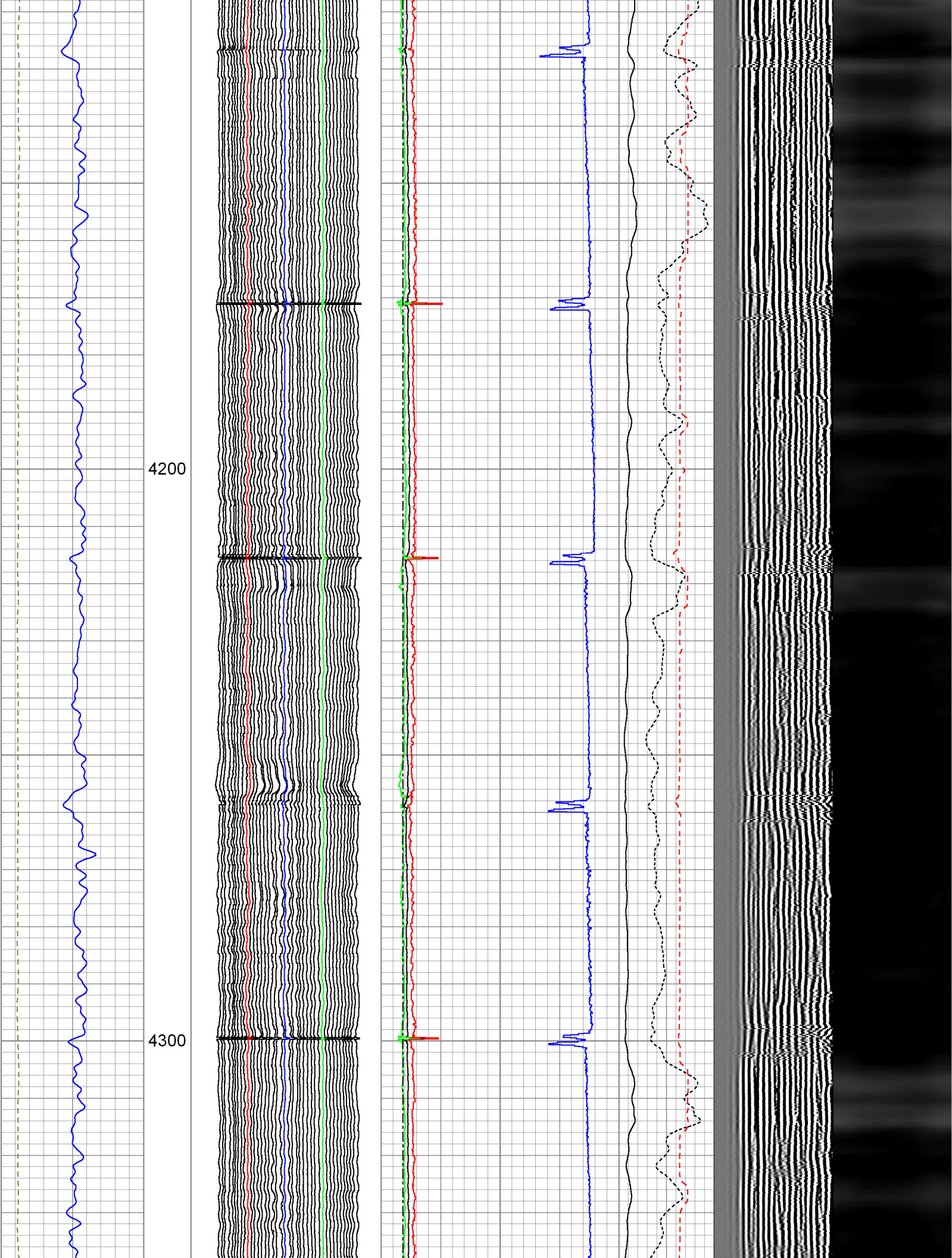


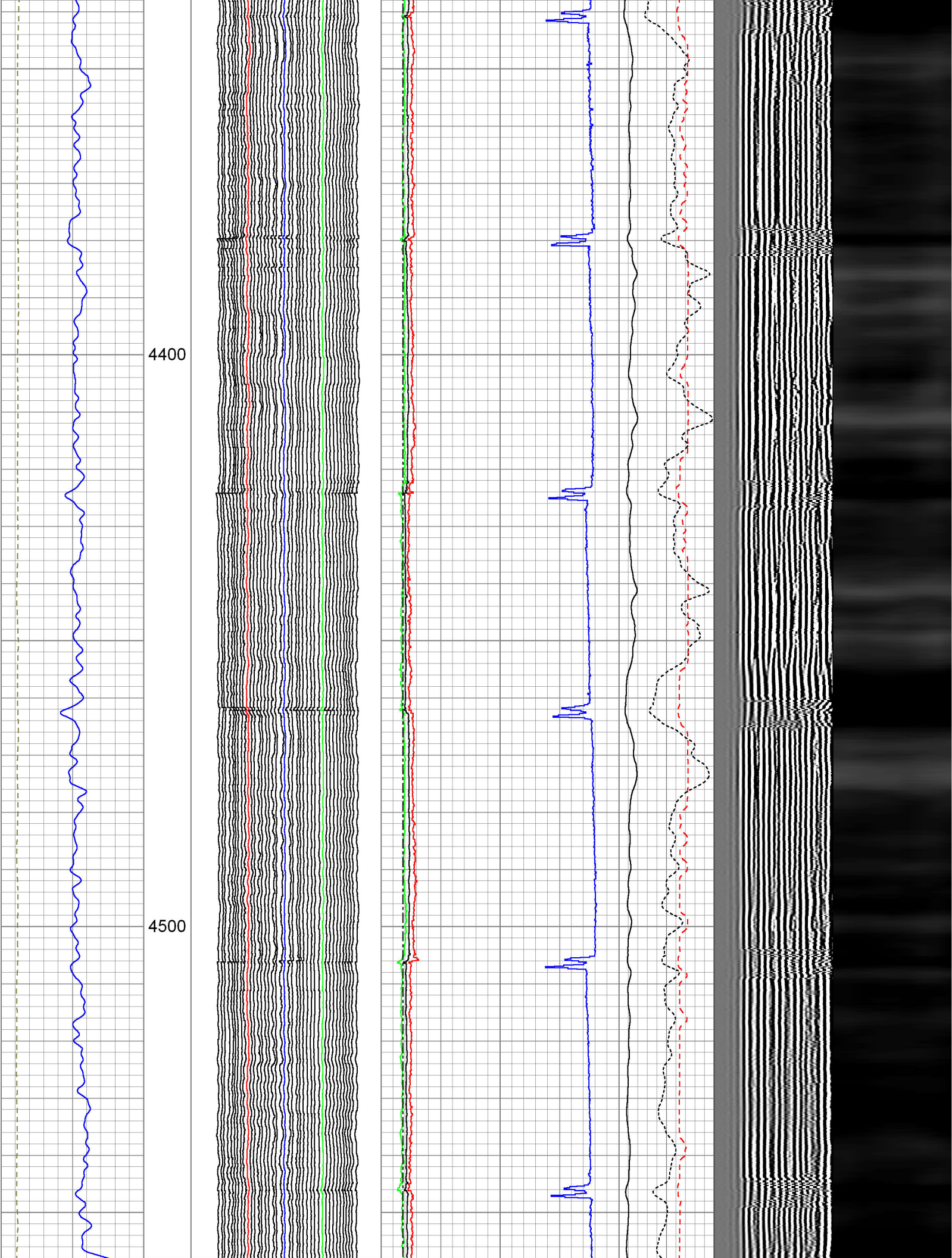
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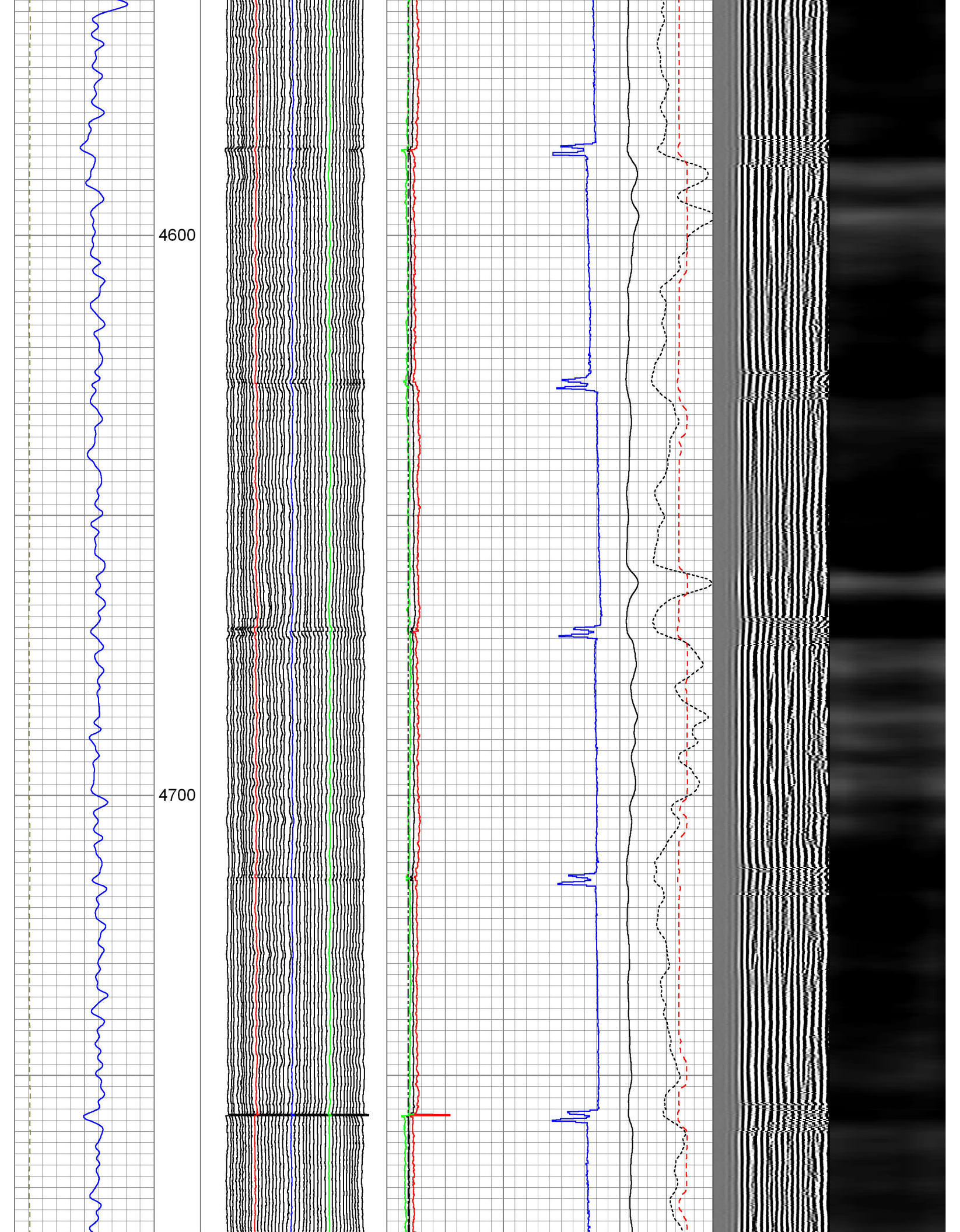
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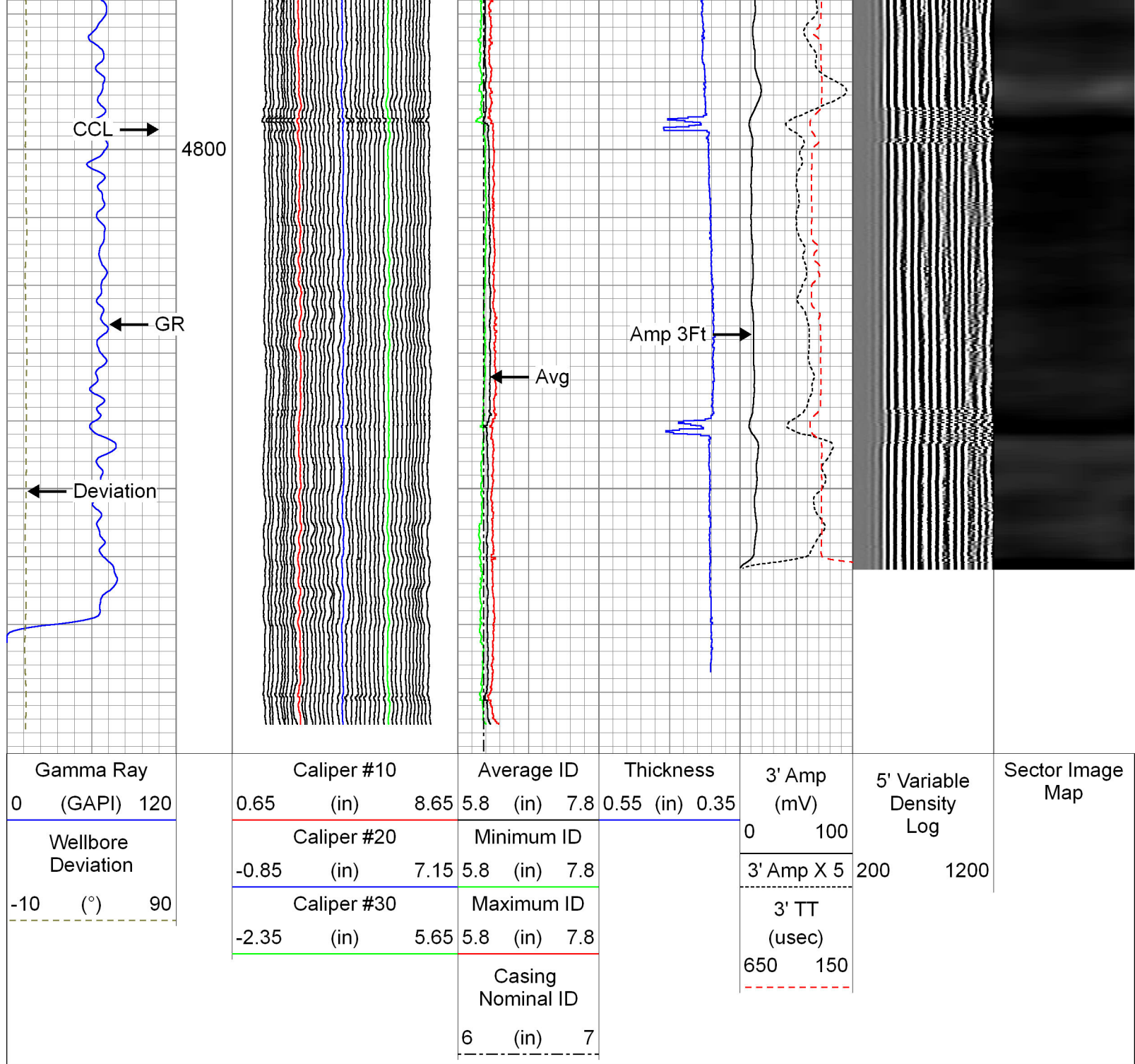
4100













Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			Titan_1_11_16	1.04	1.69	5.00
			Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
			Probe_RADII-C-2-3/4" (FW1302-002in7")	9.21	2.75	100.00

WV3FT	28.18		Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe			
WVFCAL	28.18					
WVFS1	28.18					
WVFS2	28.18					
WVFS3	28.18					
WVFS4	28.18					
WVFS5	28.18					
WVFS6	28.18					
WVFS7	28.18					
WVFS8	28.18		Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
WV5FT	27.18					
DCCL	20.20					
CCL	20.20					
GR	18.86		Probe_CCL_GR-2.75"Digital (FW1211-026)4.58 Probe 2-3/4" Digital CCL / Gamma Ray Combined		2.75	55.00
DTHK	11.89		Probe_EMIT-2.75" (FW1302-121) Probe 2-3/4" Electro-Magnetic Thickness Tool w/ 2 3/4" Mandrel	6.69	2.75	51.00
Thickness	11.89					
MagCal	11.88					
ACCX	7.88					
ACCY	7.88					
ACCZ	7.88		Probe_MFCAL-MAC40 (FW1302-090) Probe 2-3/4" 40 Finger Caliper Tool	6.92	2.88	71.00
ETemp	4.16					
Meas	4.16					
MHeadVolt	2.88					
			Probe_IL_BS_Cent Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer	2.88	2.75	10.00
Dataset: 05-07-13_whiting_razor 33-2813h_cil_rbl.db: field/well/run1/pass11 Total Length: 37.08 ft Total Weight: 312.00 lb O.D. 2.88 in						

	State	Colorado	Country	US
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