

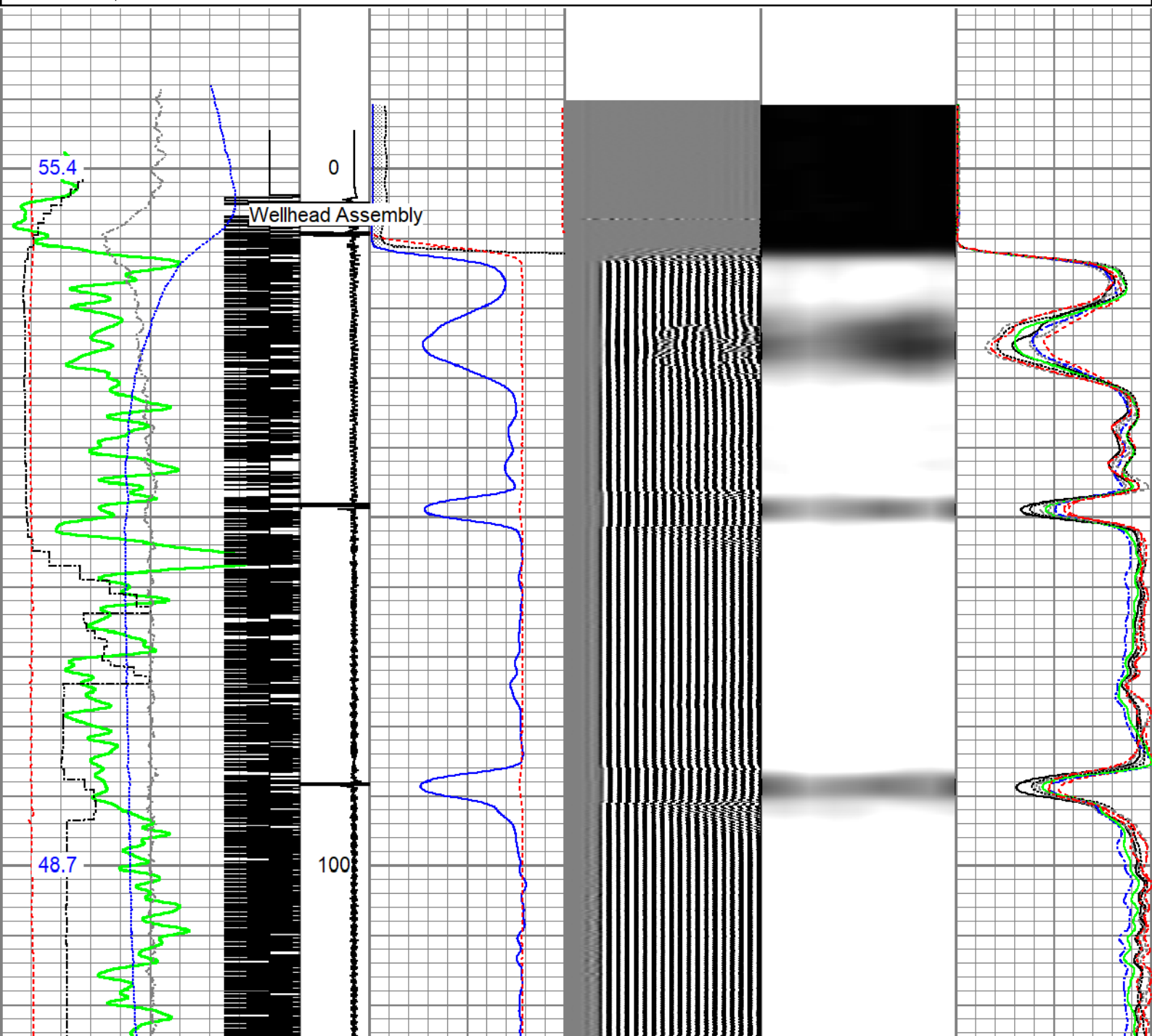
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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
Log ran as per customer request Well information from JW log ran 09-SEP-2010 Depth referenced to Kelly Bushing at 10 FT Log ran with 0 PSI Surface Induced Pressure Logging tools were clean and free of any debris upon completion of operations

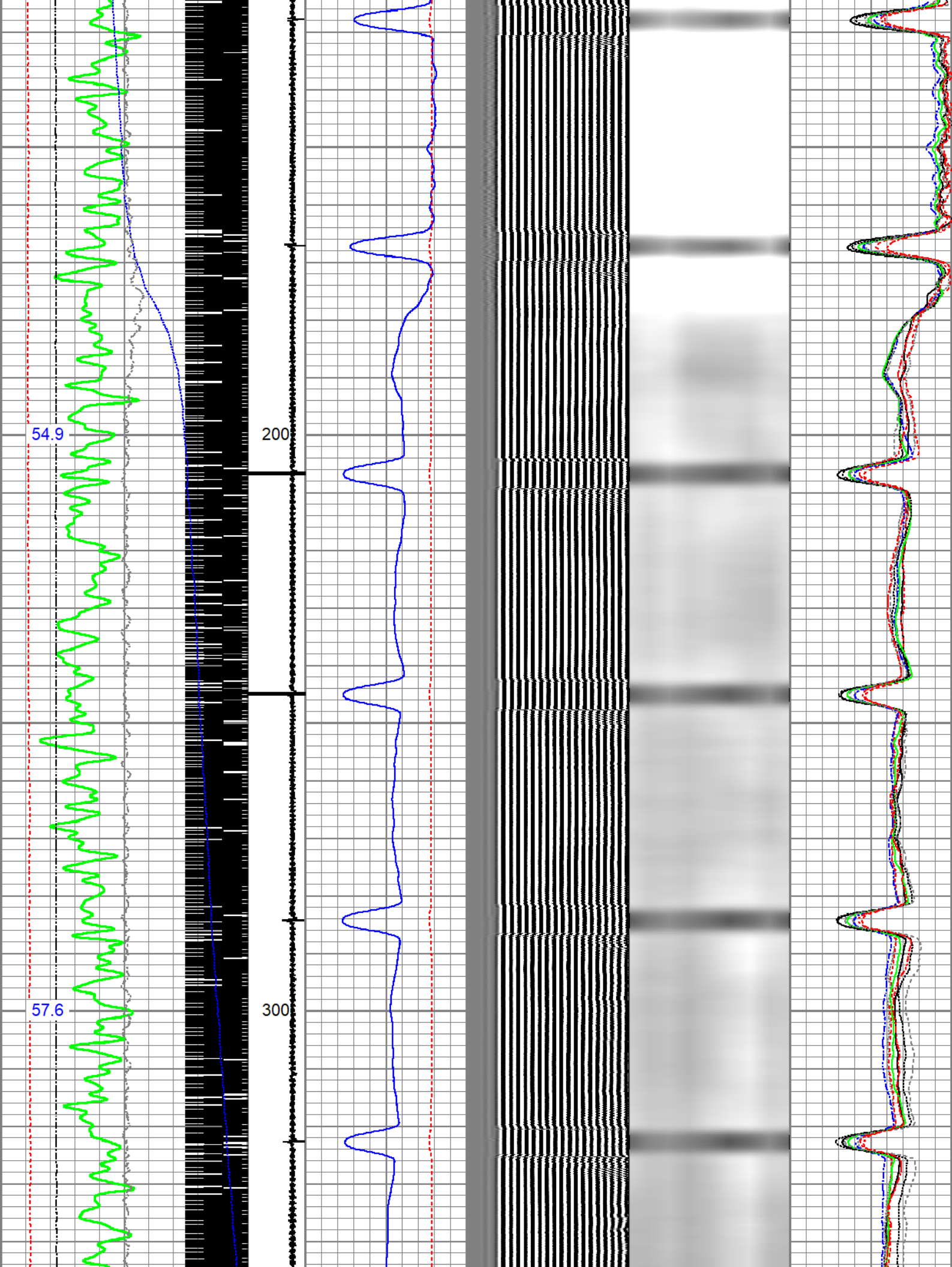
Greenfield

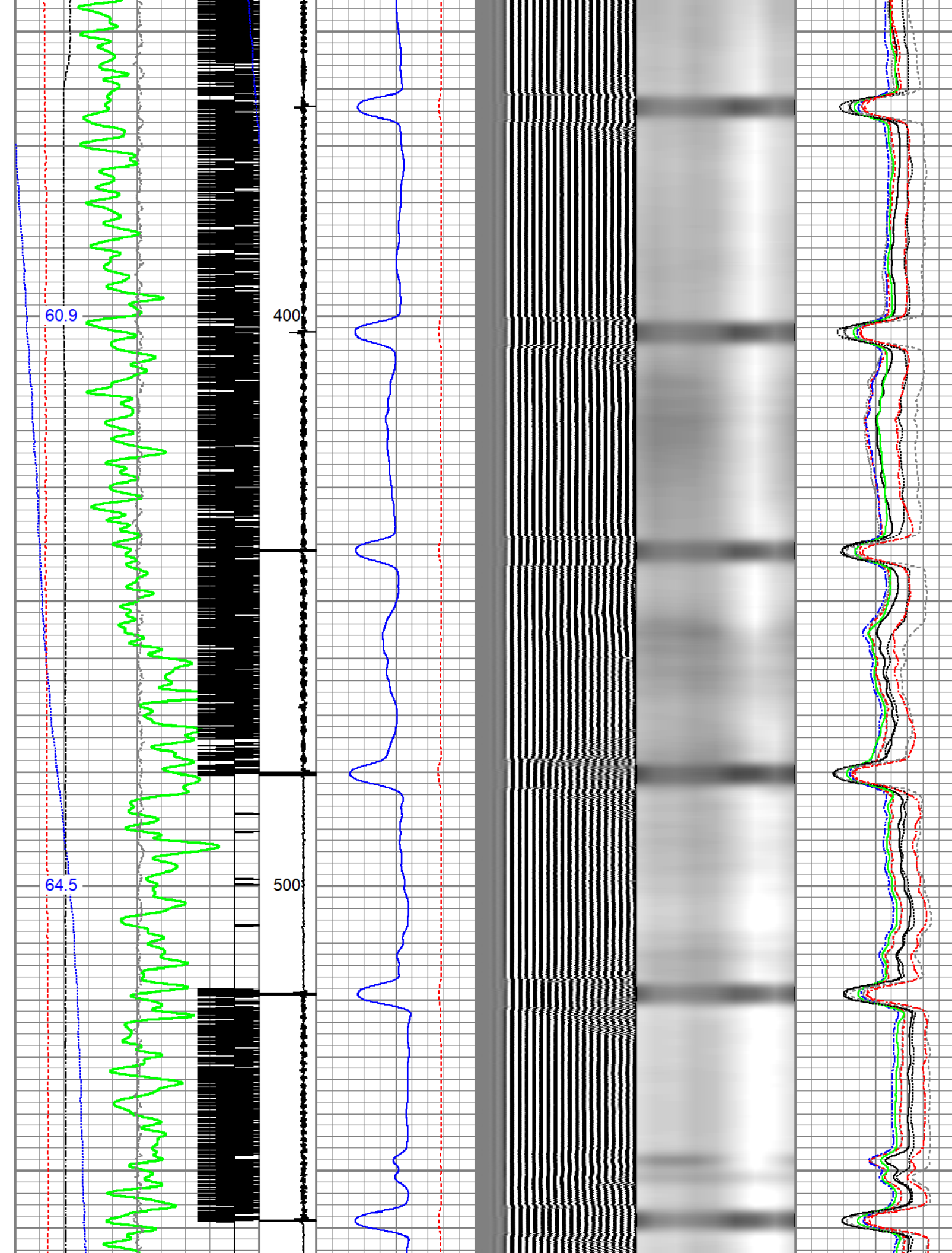
Recorded with no surface induced pressure

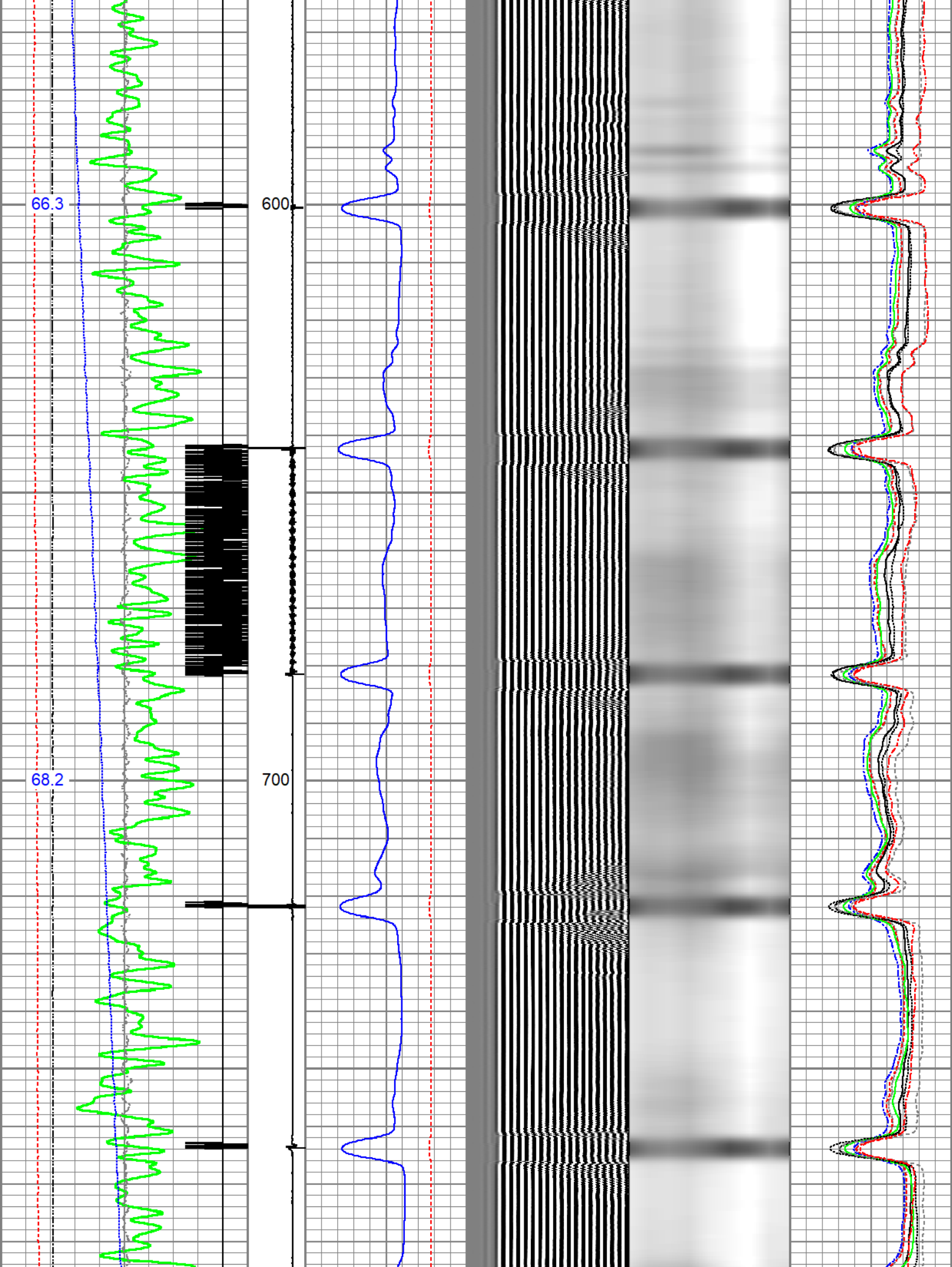
Database File rcb_civitas_antelope-43-19_8-nov-2022.db
 Dataset Pathname cbl/main-pass
 Presentation Format edge_rbl_noble
 Dataset Creation Tue Nov 08 15:50:09 2022
 Charted by Depth in Feet scaled 1:240

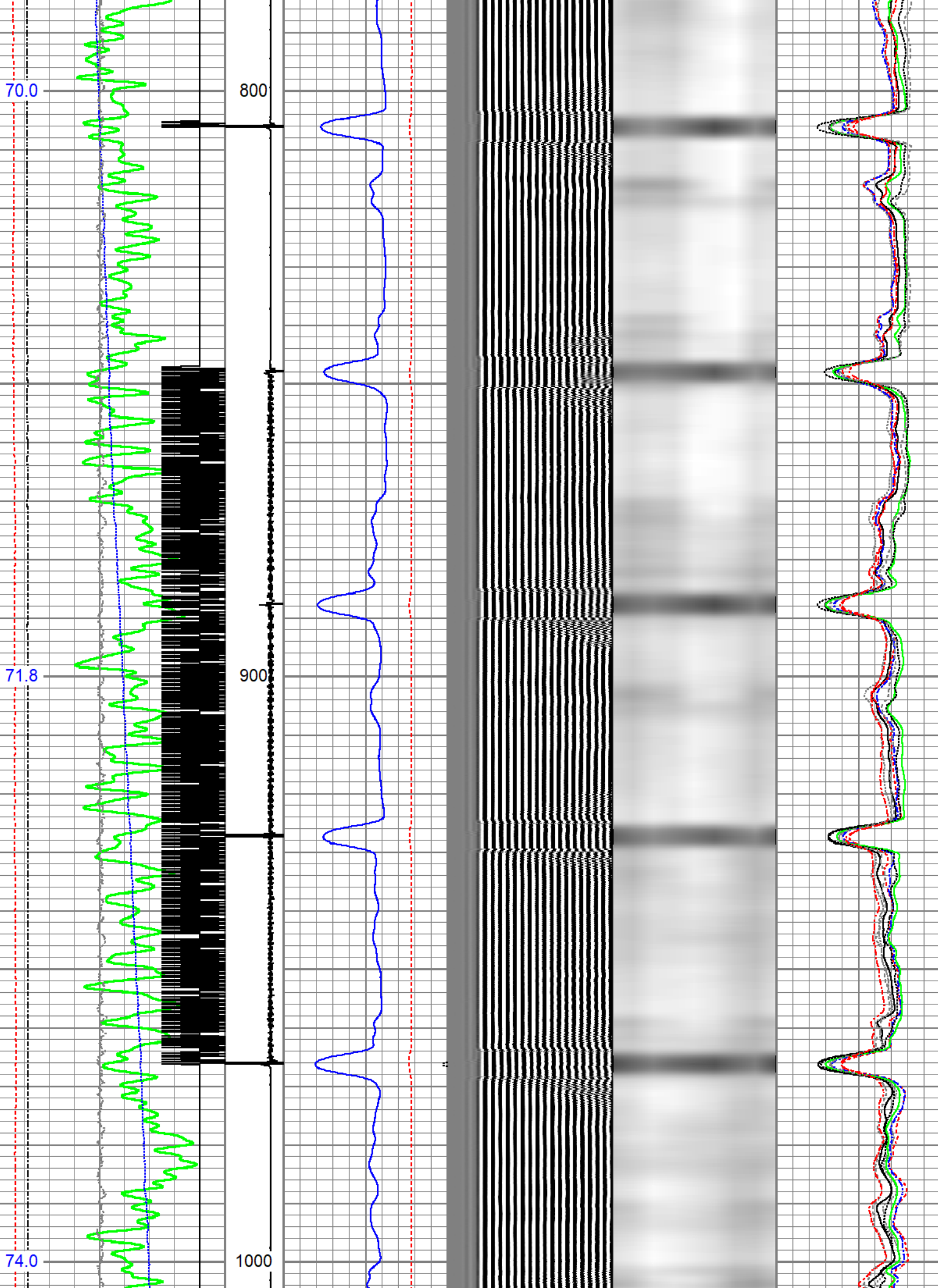
0	Gamma Ray (GAPI)	120	CCL\$2	3' Amplitude	5' Variable Density	Sector Map	0	AMP S1	100
9	Casing Collar Locator	-1	9 -1	(mV)	200 (usec)	1200	0	AMP S2	100
0	Temperature (degF)	20		3' Amplitude x 5			0	AMP S3	100
-150	Line Speed (ft/min)	150		(mV)	20		0	AMP S4	100
0	Line Tension (lb)	2000		3' Travel Time			0	AMP S5	100
	Differential Temperature			650 (usec)	150		0	AMP S6	100
-2	(degF)	2					0	AMP S7	100
Temperature							0	AMP S8	100
(degF)									

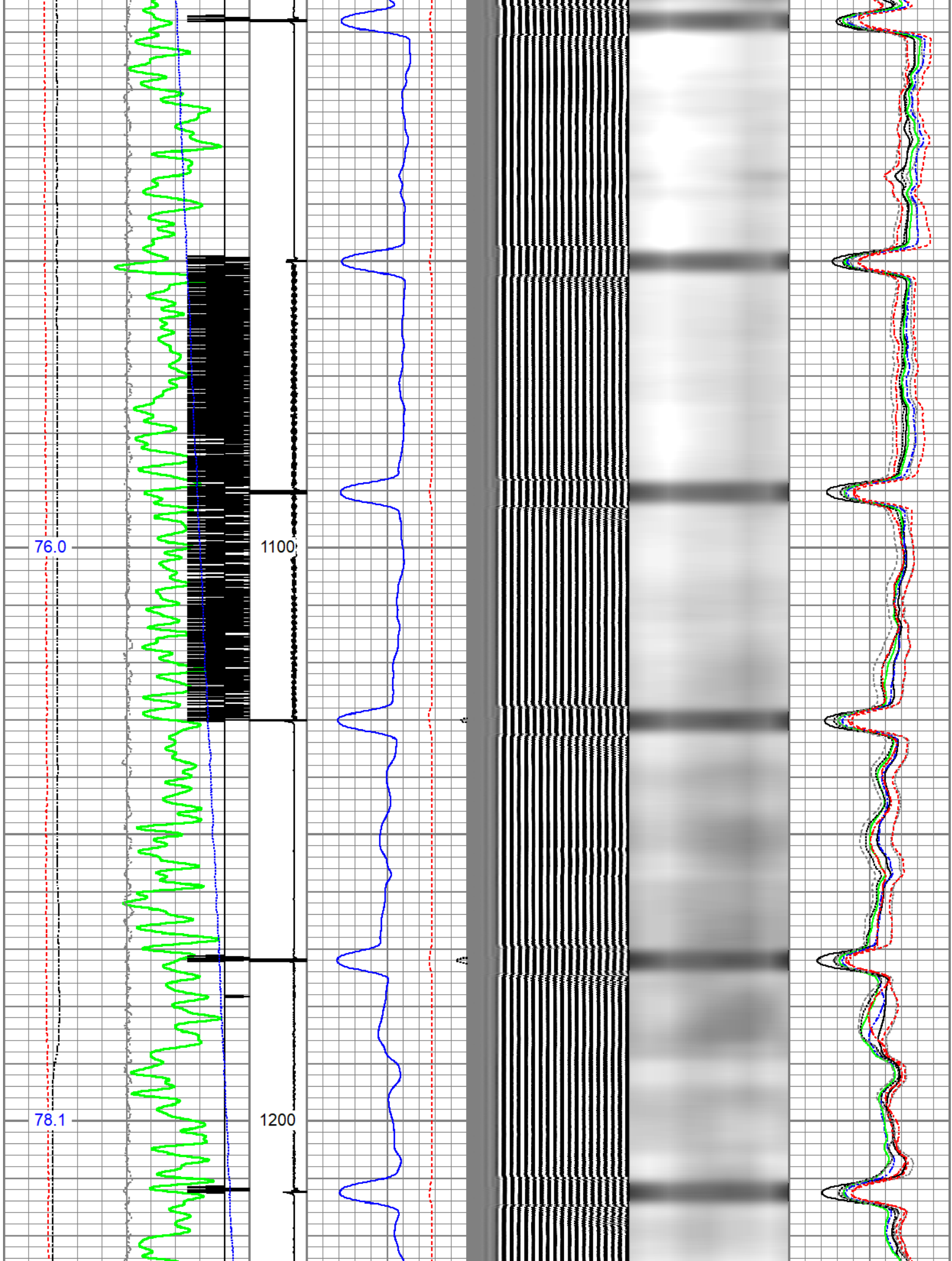


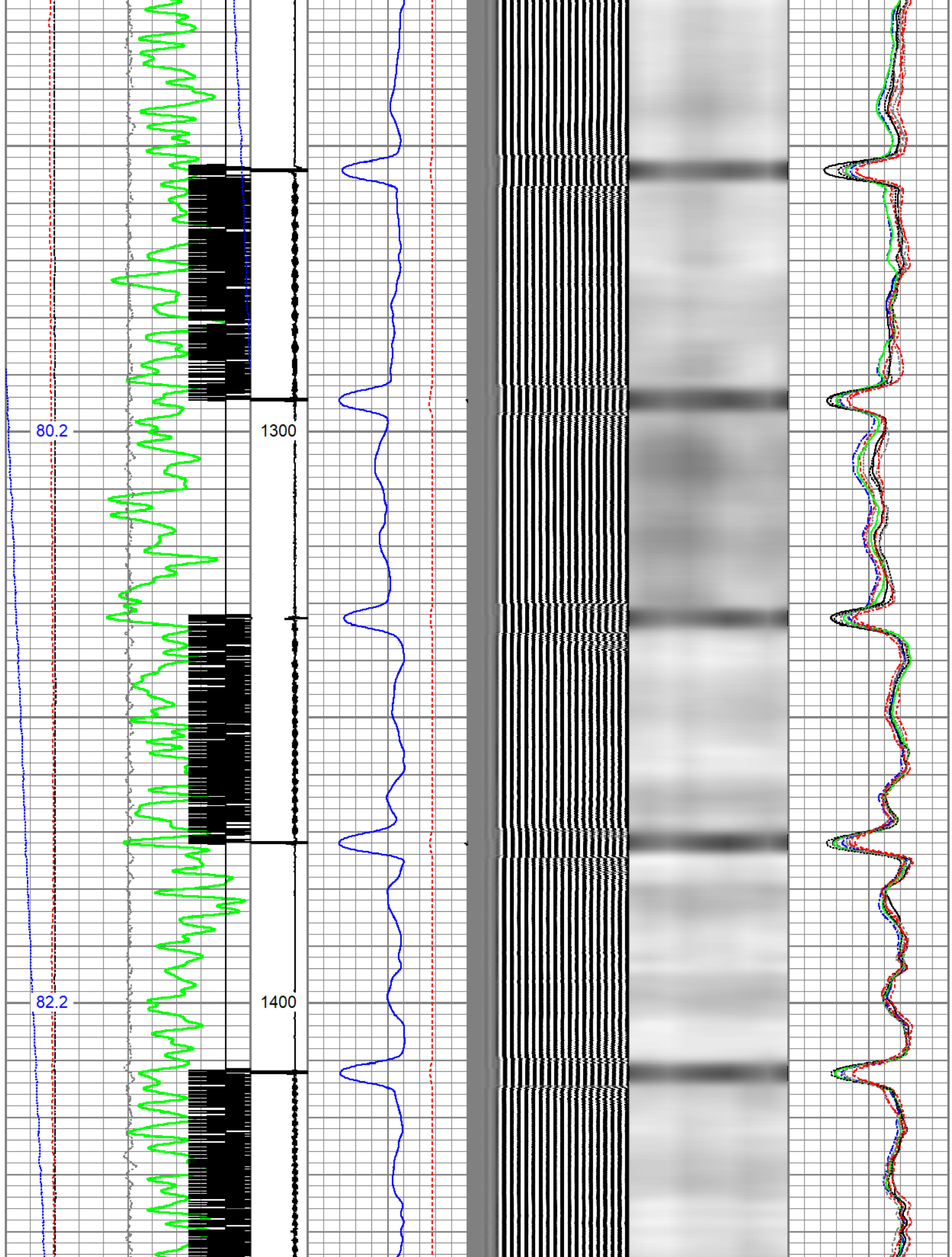


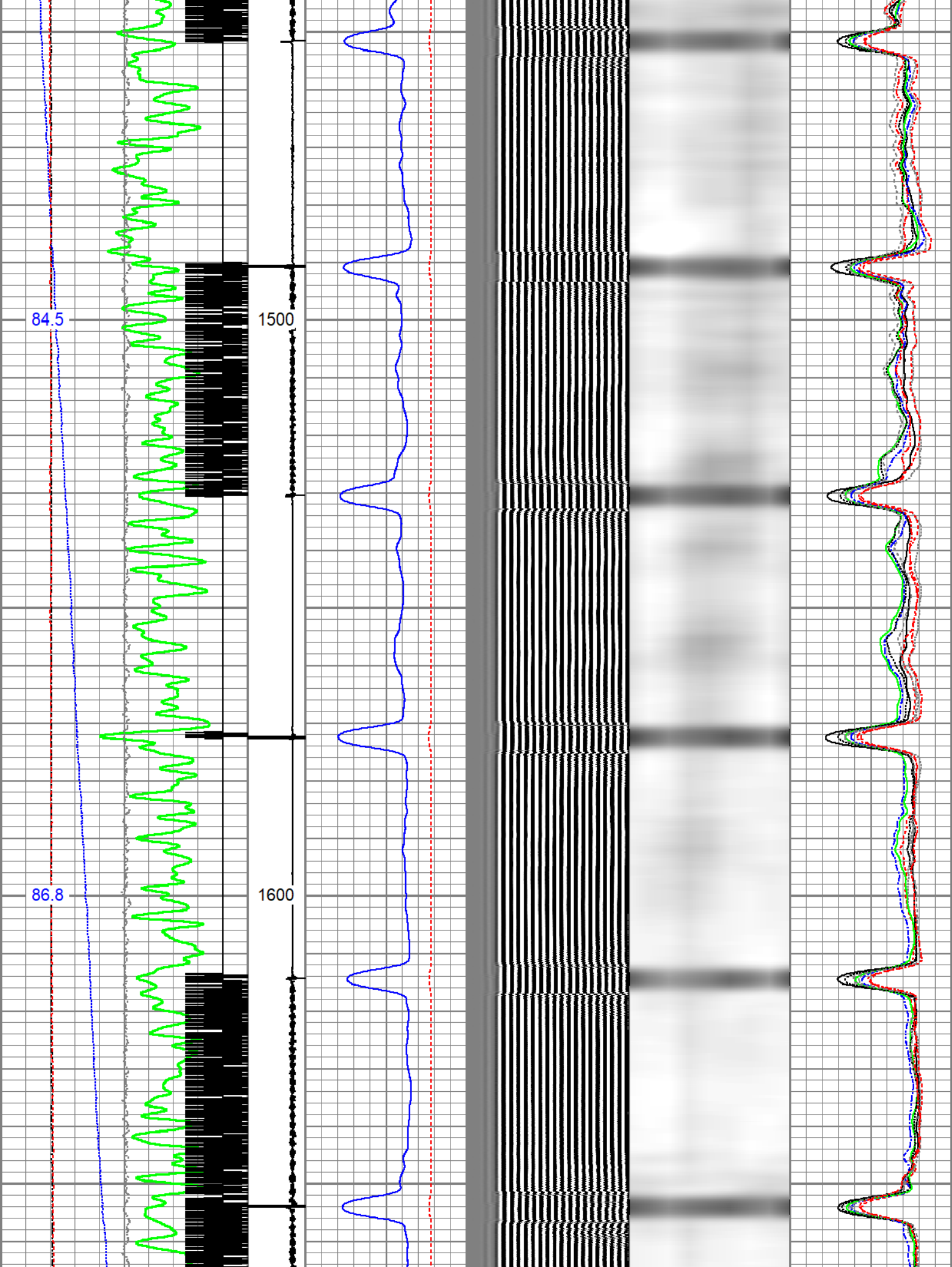


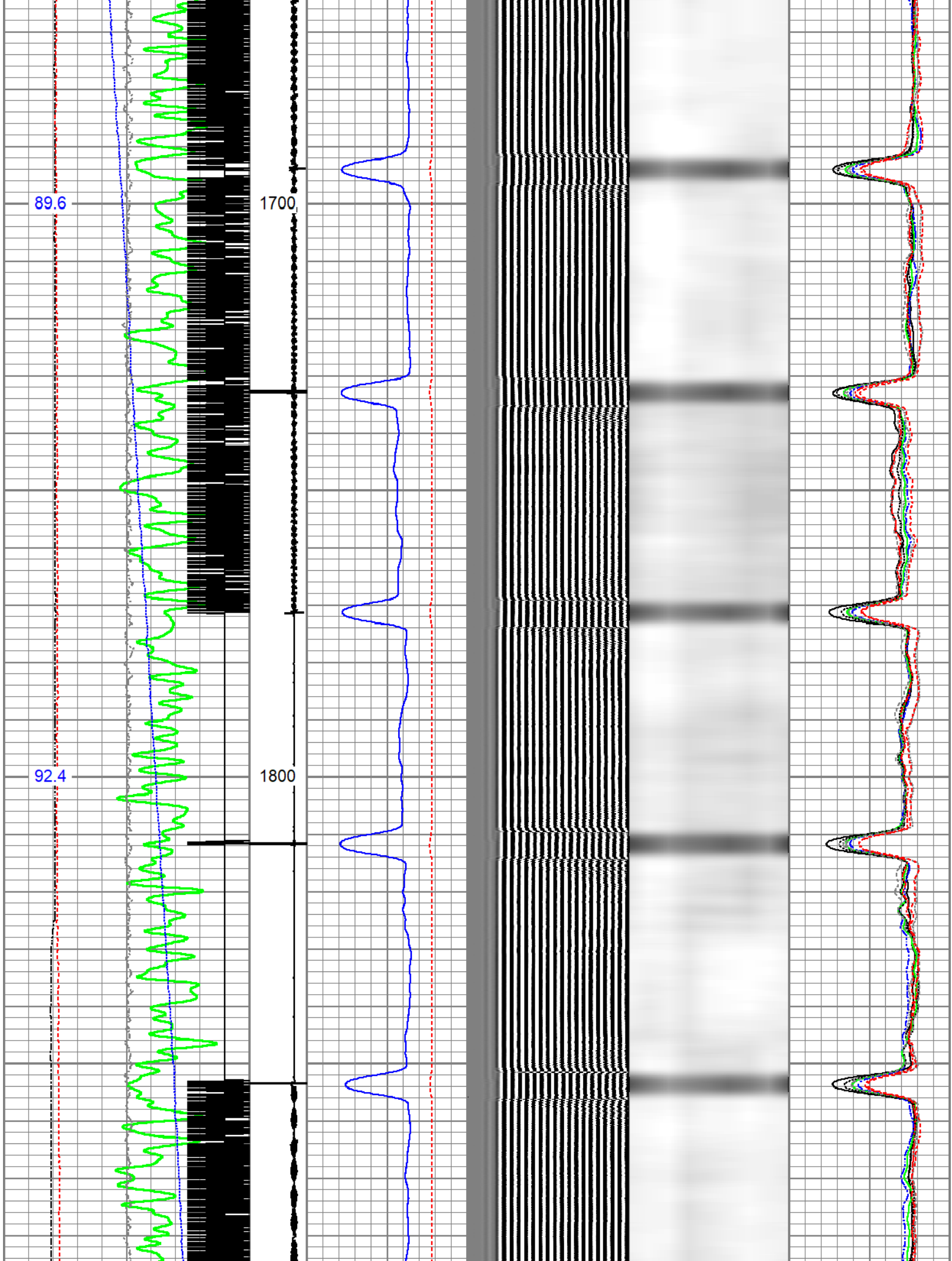


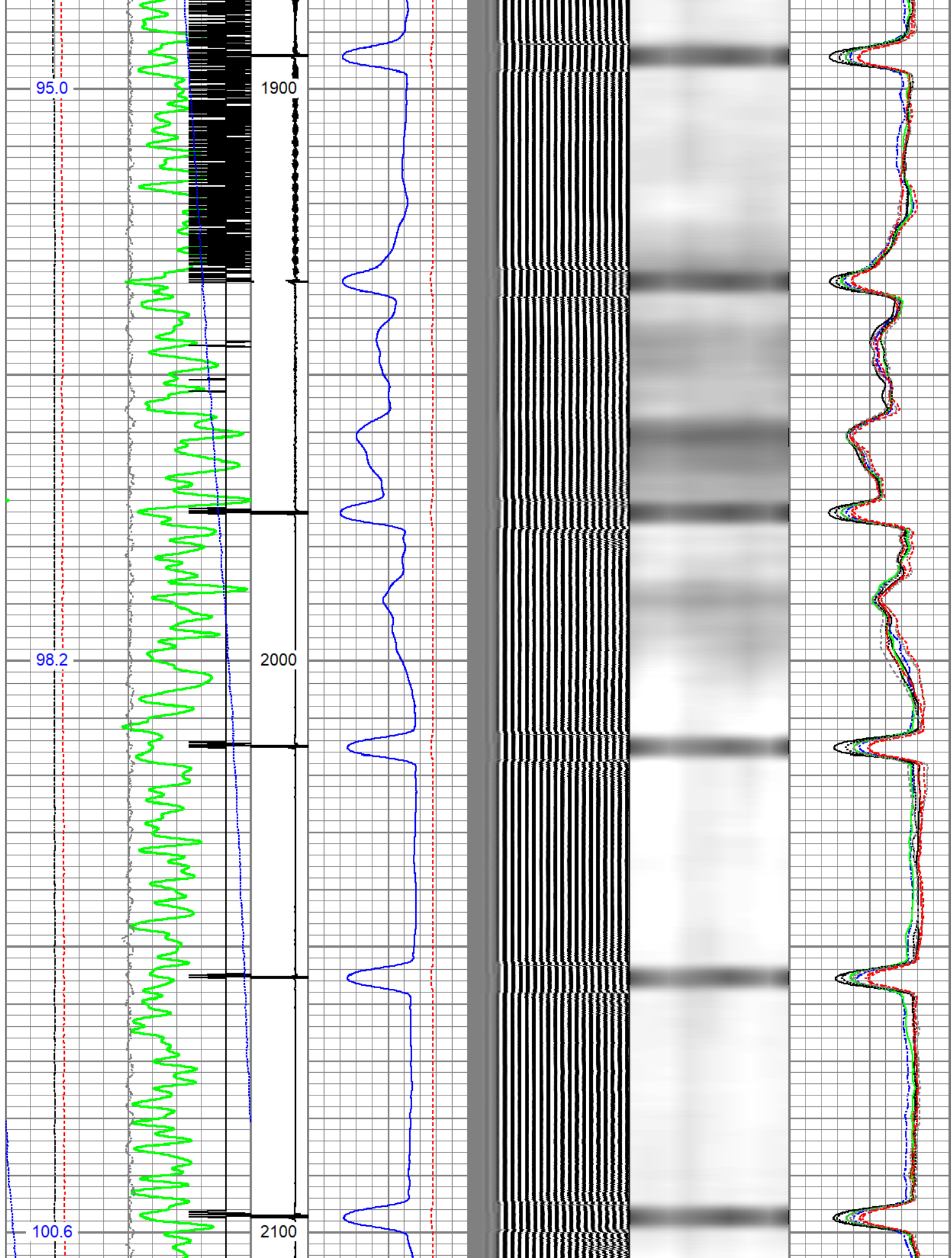


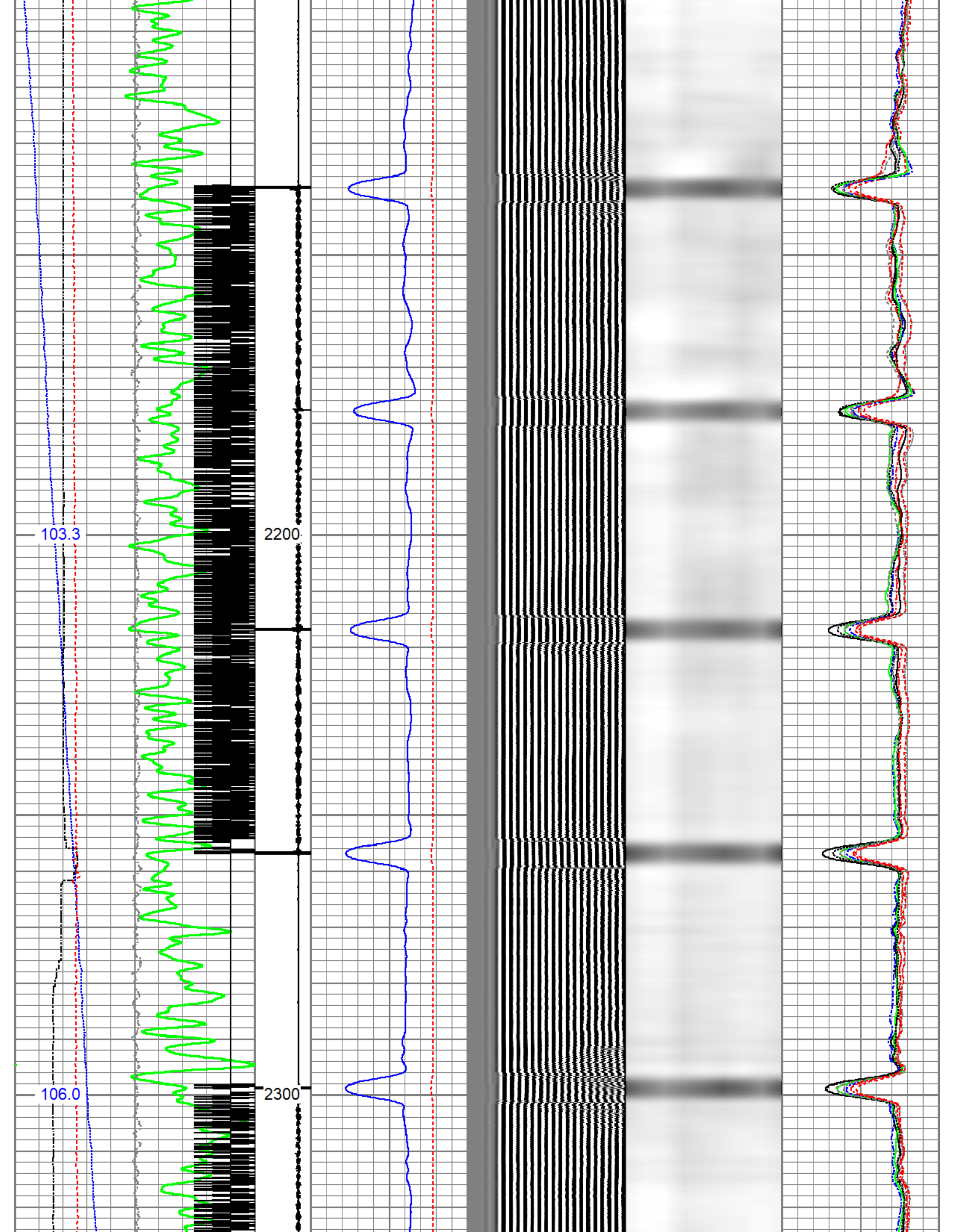


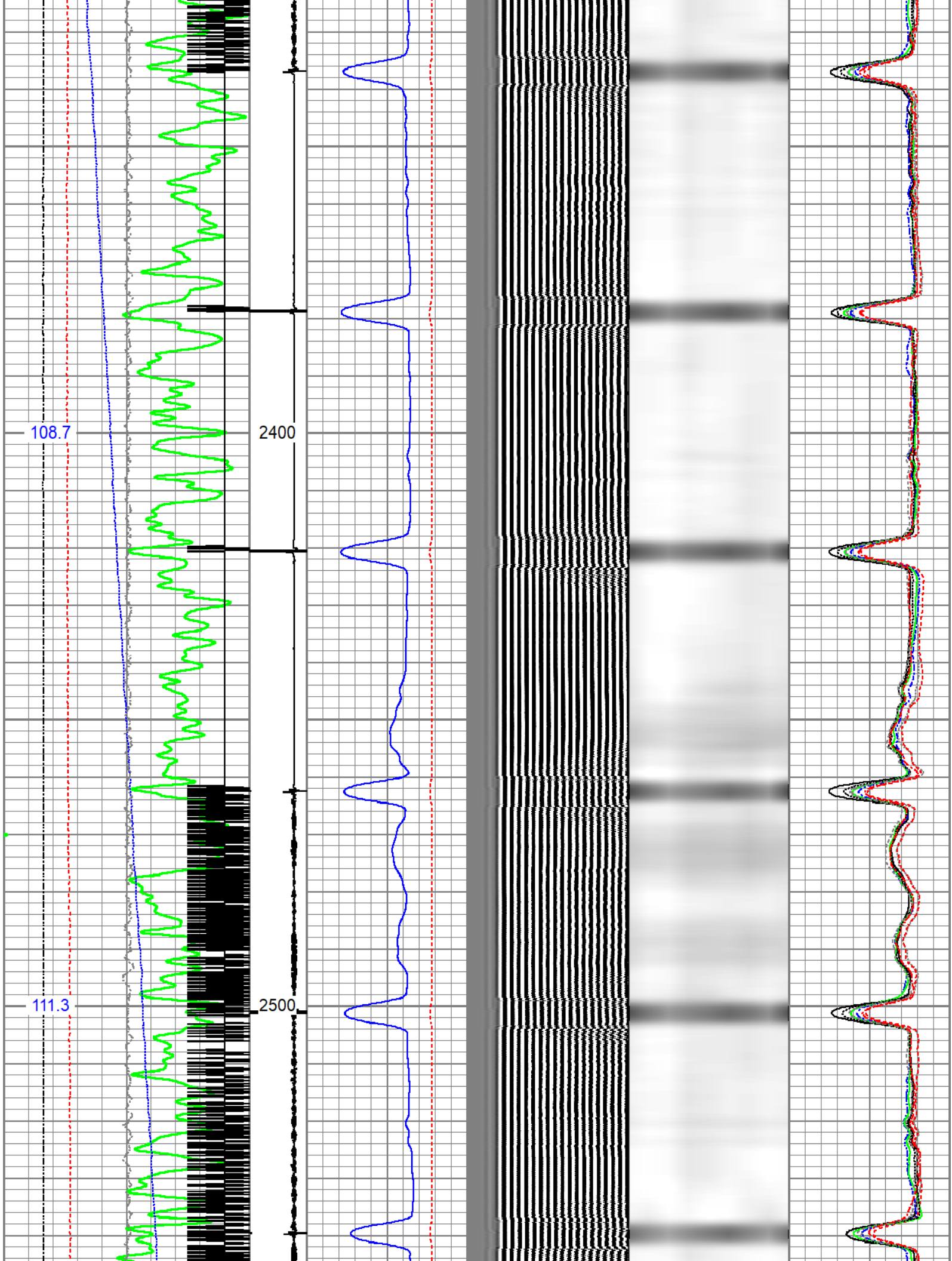


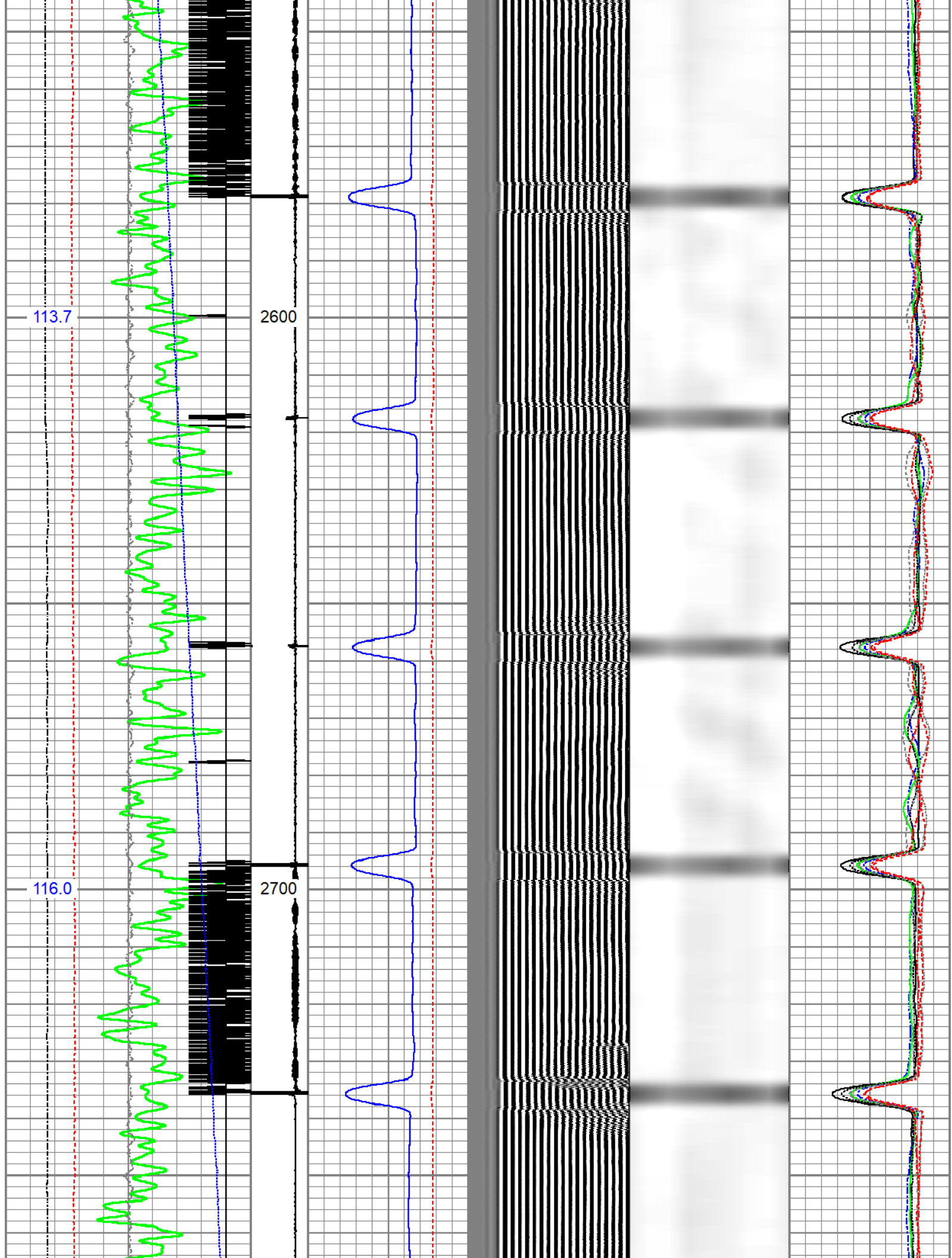


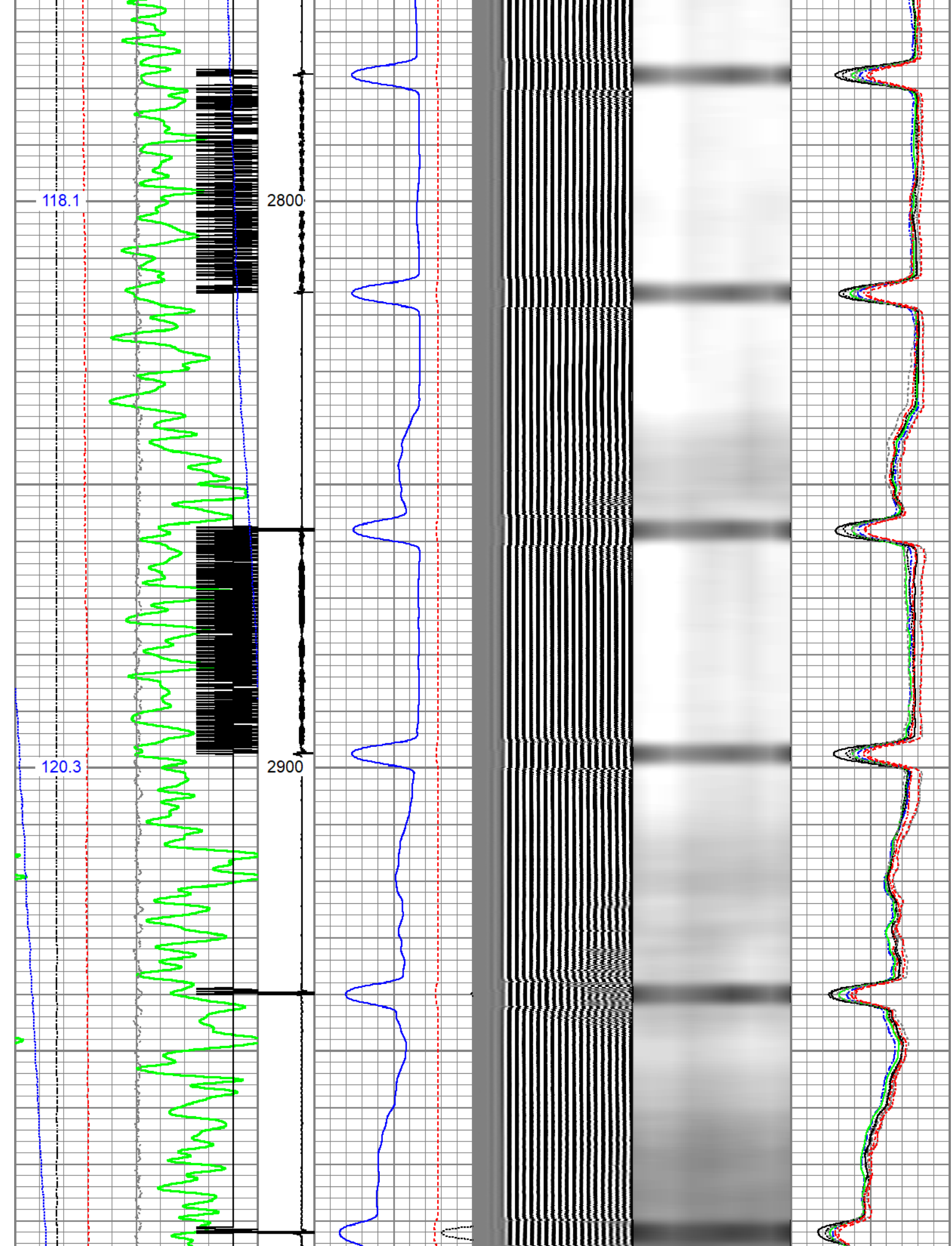


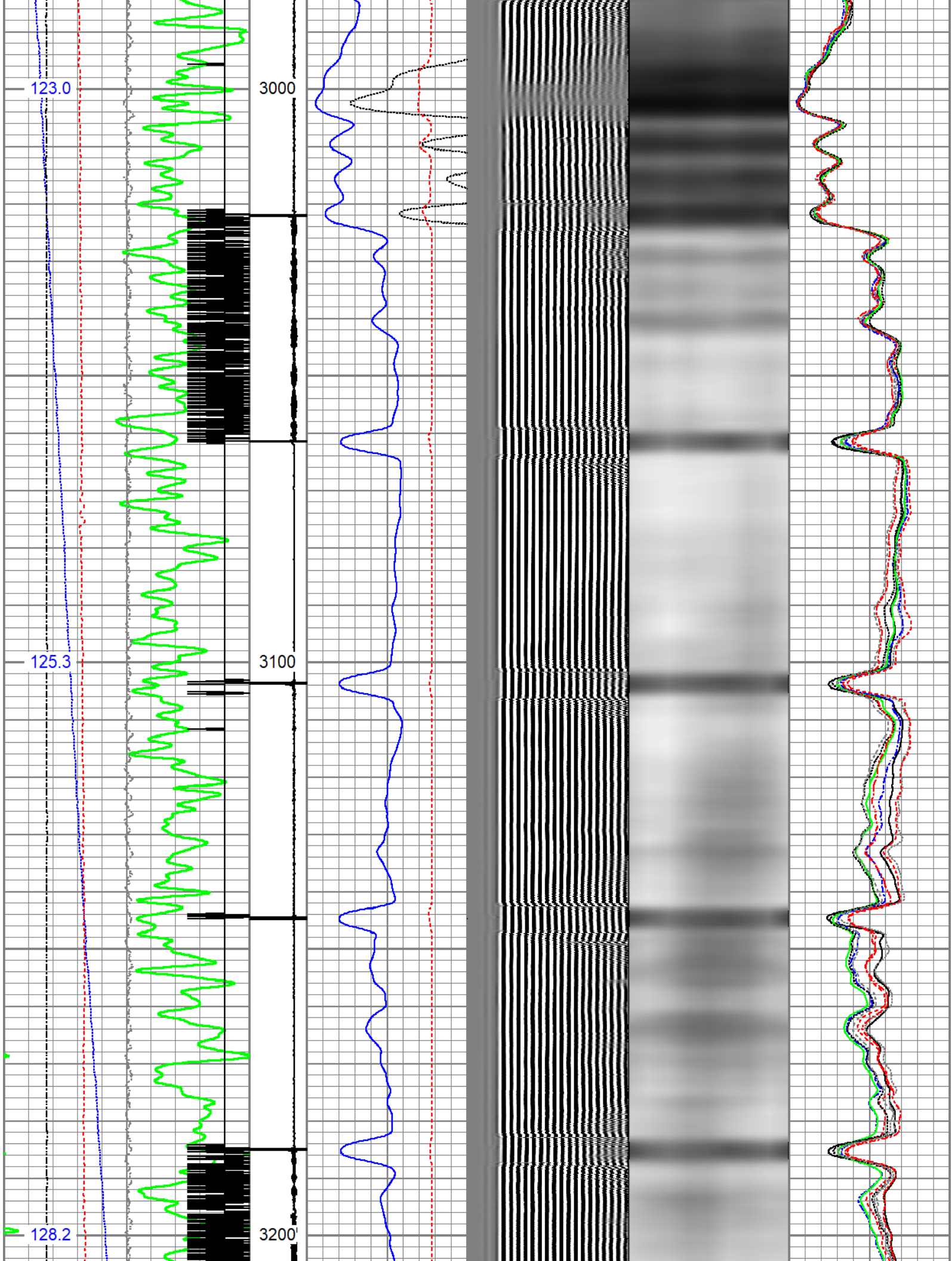


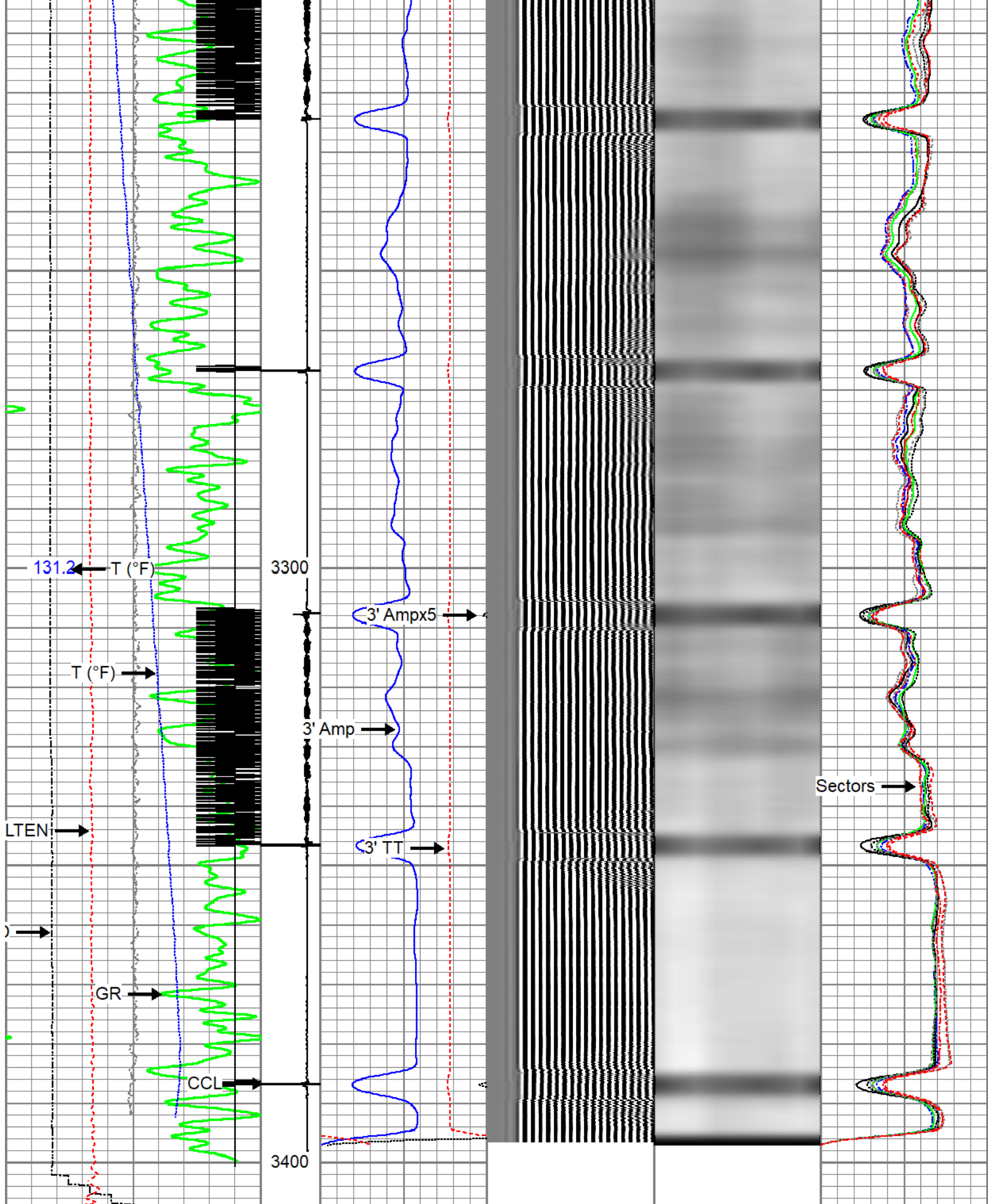












0	Gamma Ray (GAPI)	120	CCL\$2	3' Amplitude	5' Variable Density	Sector Map	0	AMP S1	100
9	Casing Collar Locator	-1	9 -1	(mV)	200 (usec)		0	AMP S2	100
0	Temperature (degF)	20		3' Amplitude x 5			0	AMP S3	100
150	Line Speed (ft/min)	150		(mV)			0	AMP S4	100

150	Line Speed (ft/min)	150	0	(mV)	20	0	AMP S4	100
0	Line Tension (lb)	2000		3' Travel Time		0	AMP S5	100
	Differential Temperature		650	(usec)	150	0	AMP S6	100
-2	(degF)	2				0	AMP S7	100
Temperature						0	AMP S8	100
(degF)								



Repeat Pass

Recorded with no surface induced pressure

Database File

rcbl_civitas_antelope-43-19_8-nov-2022.db

Dataset Pathname

cbl/repeat

Presentation Format

edge_rbl_noble

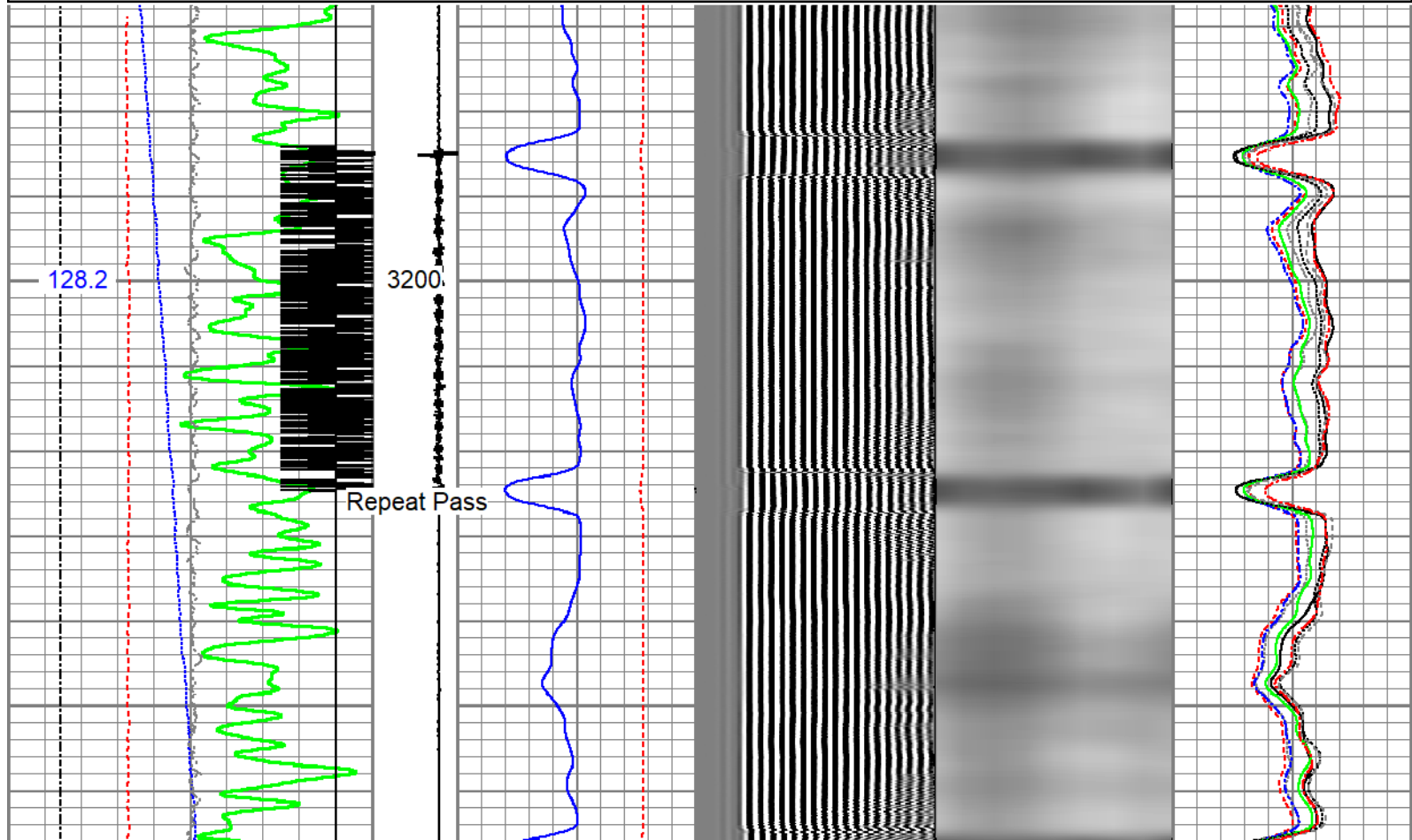
Dataset Creation

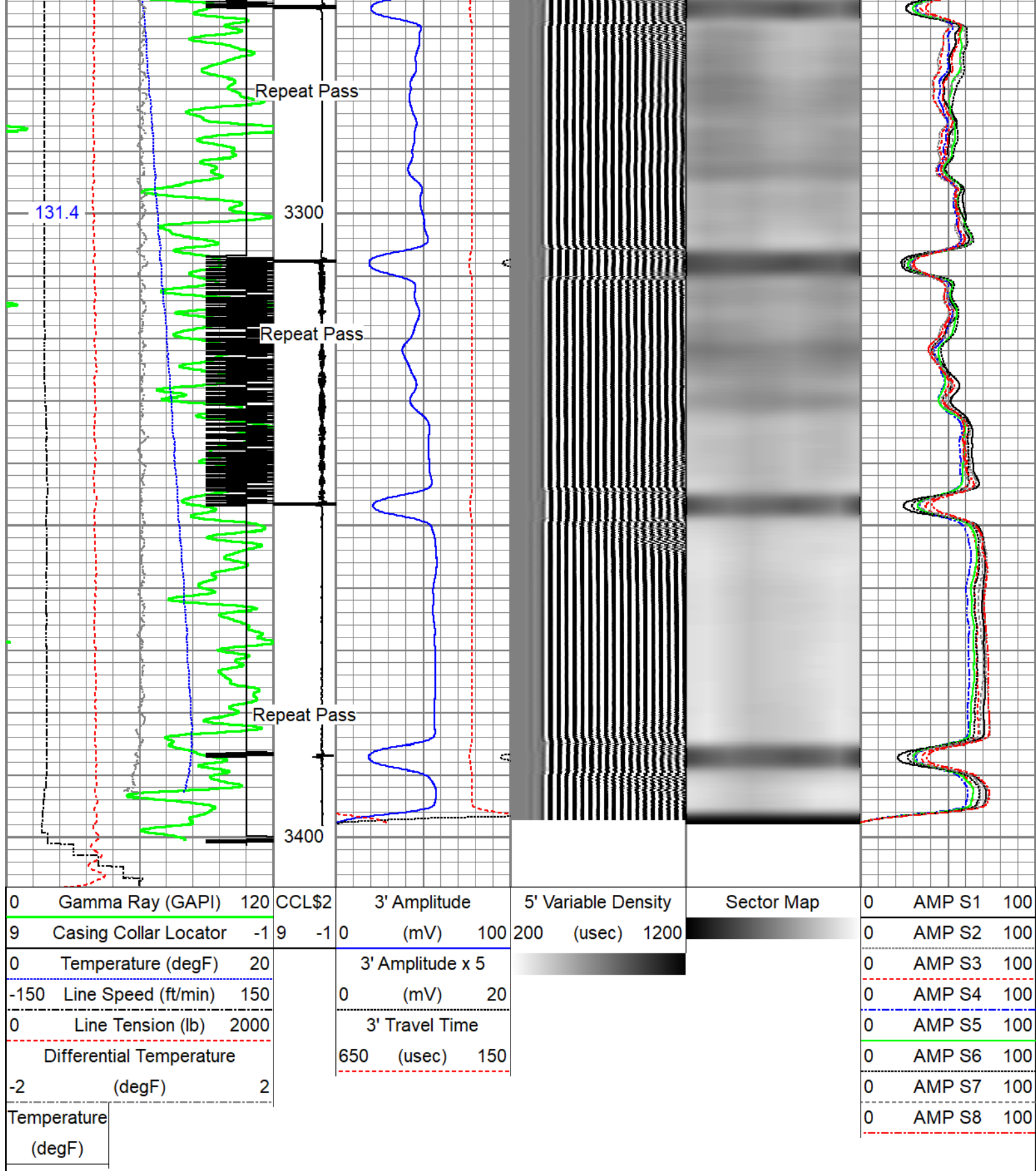
Tue Nov 08 15:02:04 2022

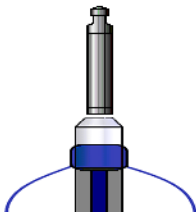
Charted by

Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	120	CCL\$2	3' Amplitude	5' Variable Density	Sector Map	0	AMP S1	100	
9	Casing Collar Locator	-1	9 -1	(mV)	100	200 (usec)	1200	0	AMP S2	100
0	Temperature (degF)	20		3' Amplitude x 5				0	AMP S3	100
-150	Line Speed (ft/min)	150		0	(mV)	20		0	AMP S4	100
0	Line Tension (lb)	2000		3' Travel Time				0	AMP S5	100
	Differential Temperature			650	(usec)	150		0	AMP S6	100
-2	(degF)	2						0	AMP S7	100
Temperature								0	AMP S8	100
(degF)										





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan CHD-14375 GO Titan 1-7/16" Assembled Electric Cable Head with 1" Fishing Neck	1.03	1.44	3.60
			SO BS CENT 2750 4500	1.22	2.25	10.00

			SOBS CENT-2750-4300 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
TEMP	13.87					
WVFS8	11.64					
WVFS7	11.64					
WVFS6	11.64					
WVFS5	11.64					
WVFS4	11.64					
WVFS3	11.64					
WVFS2	11.64					
WVFS1	11.64					
WVFCAL	11.64					
WVF3FT	11.64					
WVF5FT	10.64					
			Probe Radii-2750 RBT (FW1305-096) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
CCL\$2	6.51					
CCL\$1	6.51					
GR	5.26					
			Probe GR-CCL-2750 GOB (FW1212-026) Probe 2-3/4" rev.2 Digital Scintillation Gamma Ray/CCL Combined with GO Bottom	4.51	2.75	55.00
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
LOCTIM	0.00					
UTCTIM	0.00					
Dataset: rcbl_civitas_antelope-43-19_8-nov-2022.db: field/well/cbl/main-pass Total length: 17.81 ft Total weight: 193.60 lb O.D.: 3.25 in						

Calibration Report	
Database File	rcbl_civitas_antelope-43-19_8-nov-2022.db
Dataset Pathname	cbl/main-pass
Dataset Creation	Tue Nov 08 15:50:09 2022

Gamma Ray Calibration Report

Serial Number:	FW1212-026	
Tool Model:	2750 GOB	
Performed:	Mon Oct 19 14:19:51 2020	
Calibrator Value:	637.0	GAPI
Background Reading:	113.7	cps
Calibrator Reading:	1029.1	cps
Sensitivity:	0.6959	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1305-096
Tool Model:	2750 RBT

Calibration Casing Diameter:	4.500	in
Calibration Depth:	10.000	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.619	0.800	81.196	130.172	0.646
CAL	0.913	0.914				
5'	0.001	0.606	0.800	81.196	132.803	0.655
SUM						
S1	0.001	0.653	0.000	100.000	153.331	-0.187
S2	0.001	0.674	0.000	100.000	148.759	-0.192
S3	0.001	0.676	0.000	100.000	148.226	-0.193
S4	0.001	0.719	0.000	100.000	139.317	-0.180
S5	0.001	0.752	0.000	100.000	133.163	-0.184
S6	0.001	0.749	0.000	100.000	133.702	-0.187
S7	0.001	0.756	0.000	100.000	132.474	-0.189
S8	0.001	0.746	0.000	100.000	134.365	-0.190

Air Zero Calibration, performed Tue Nov 8 14:47:21 2022:

	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

Temperature Calibration Report

Serial Number:	FW1305-096
Tool Model:	2750 RBT
Performed:	Mon Oct 19 14:19:51 2020

Reference	Reading
-----------	---------

	Reference	Reading
Low Reference:	100.00 degF	109.43 degF
High Reference:	350.00 degF	405.87 degF
Gain:	0.84	
Offset:	7.72	
Delta Spacing	1	

	Company	Civitas
	Well	ANTELOPE 43-19
	Field	Wattenberg
	County	Weld
	State	Colorado