



Radi Bond Log
Gamma Ray CCL
Temp

Company Antero Resources		Country	
Well Greenwood 1H	Field	Well Greenwood 1H	Field
County Tyler	County Tyler	State WV	State WV
State WV	Country	Country	Country
Location:		API # : AFE A11795	Other Services
		4709502777	
Permanent Datum	SEC	TWP	RGE
Log Measured From	Ground Level	Ground Level	Elevation
Drilling Measured From	K.B 30 FT.	Ground Level	K.B. D.F. G.L.
Date	June 21 2022		
Run Number	One		
Depth Driller	N/A		
Depth Logger	6404 FT.		
Bottom Logged Interval	6404 FT.		
Top Log Interval	Surface		
Open Hole Size	7 5/8		
Type Fluid	Water		RECEIVED Office of Oil and Gas
Density / Viscosity			
Max. Recorded Temp.	137		
Estimated Cement Top	5500 FT.		JAN 23 2023
Time Well Ready	12:10		
Time Logger on Bottom	10:43		
Equipment Number	Unit 116		WV Department of Environmental Protection
Location	Marietta Ohio		
Recorded By	D.Heater		
Witnessed By	James Carder		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
	Size	From	To
Casing Record	Size	Wgt/Ft	Top
Surface String			Bottom
Prot. String			
Production String			
Liner	5 1/2	23lbs	

<<< Fold Here >>>

SM

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 zeroed at KB
Marker Joint @ 5187-5197

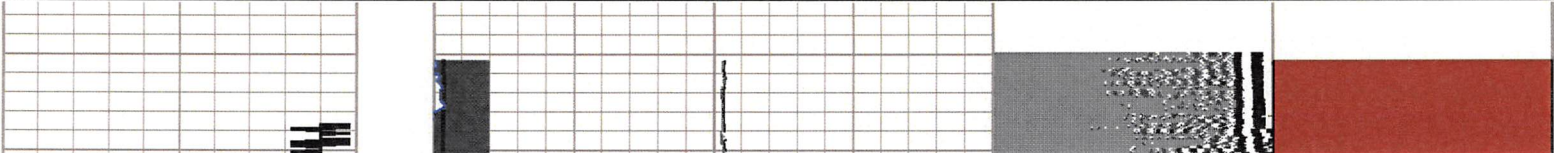
Thank you for using Nine Energy Service

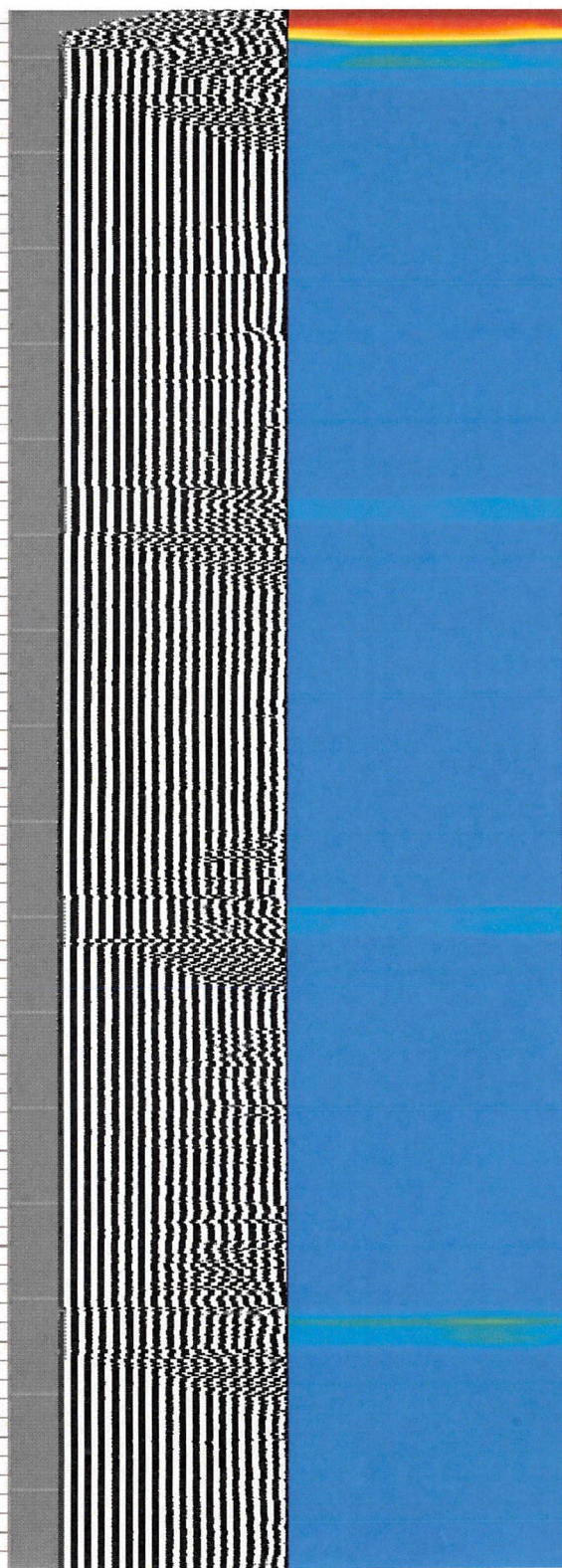
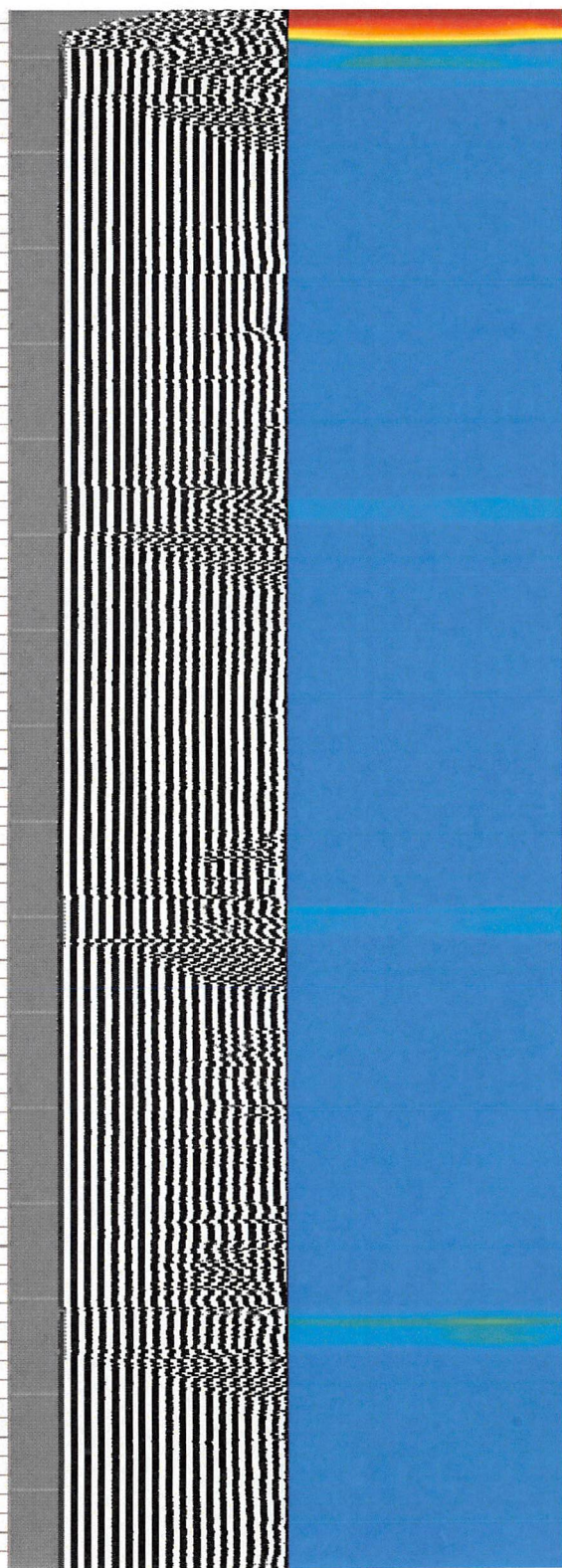
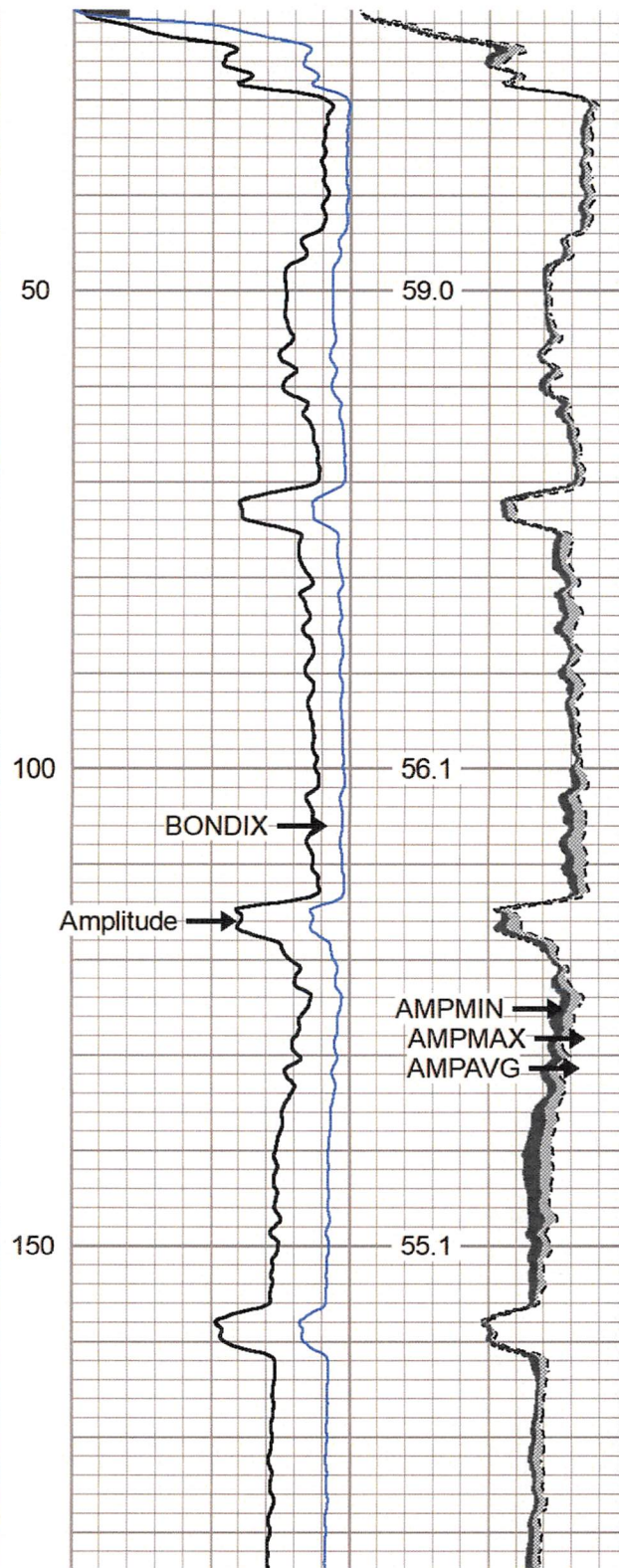
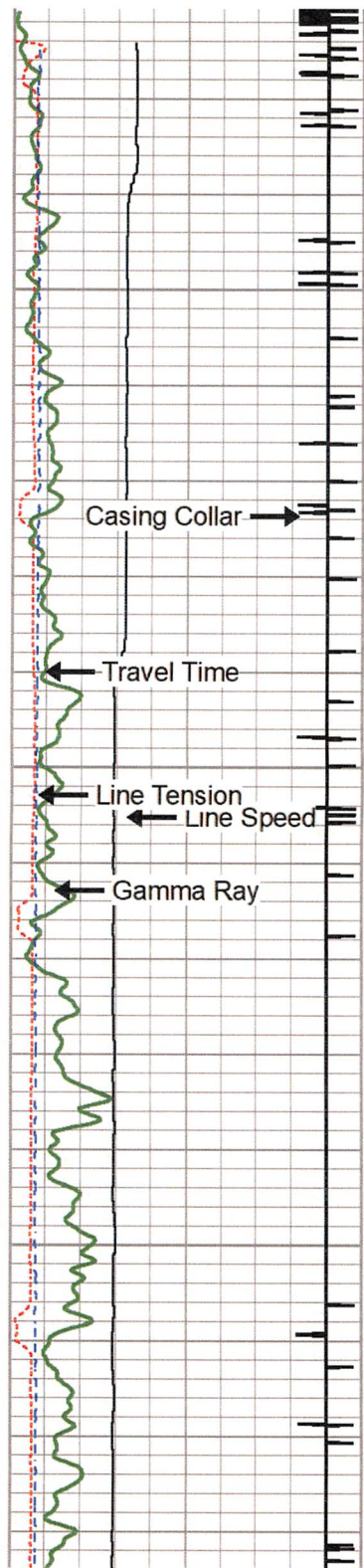


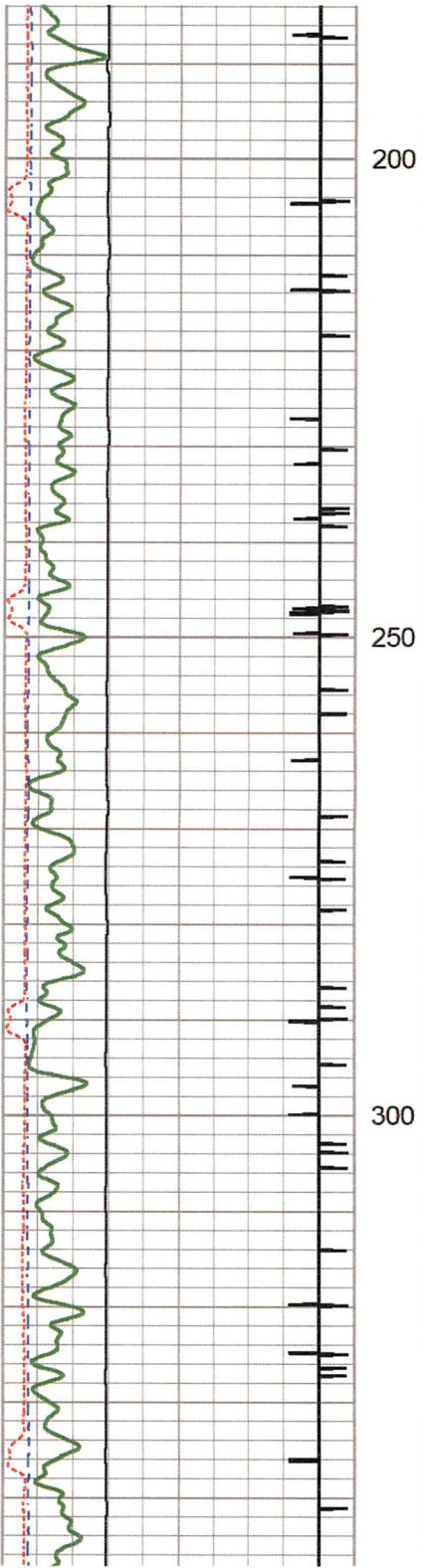
Main Pass 1500 PSI

Database File e:\june 21 2022 antero greenwood 1h\june 21 2022 antero greenwood 1h.db
 Dataset Pathname pass4
 Presentation Format rcbl-bond index for antero 1020
 Dataset Creation Tue Jun 21 11:47:43 2022
 Charted by Depth in Feet scaled 1:240

270	Travel Time (usec)	160	0	Amplitude (mV)	100	-5	AMPMIN	150	Variable Density	1	Cement Map	8
9	Casing Collar	-1	1	BONDIX	0	-5	AMPMAX	150	200 (usec)	1200		
0	Gamma Ray (GAPI)	150				-5	AMPAVG	150				
	Line Speed						TEMP					
-200	(ft/min)	200					(degF)					
0	Line Tension (lb)	5000										



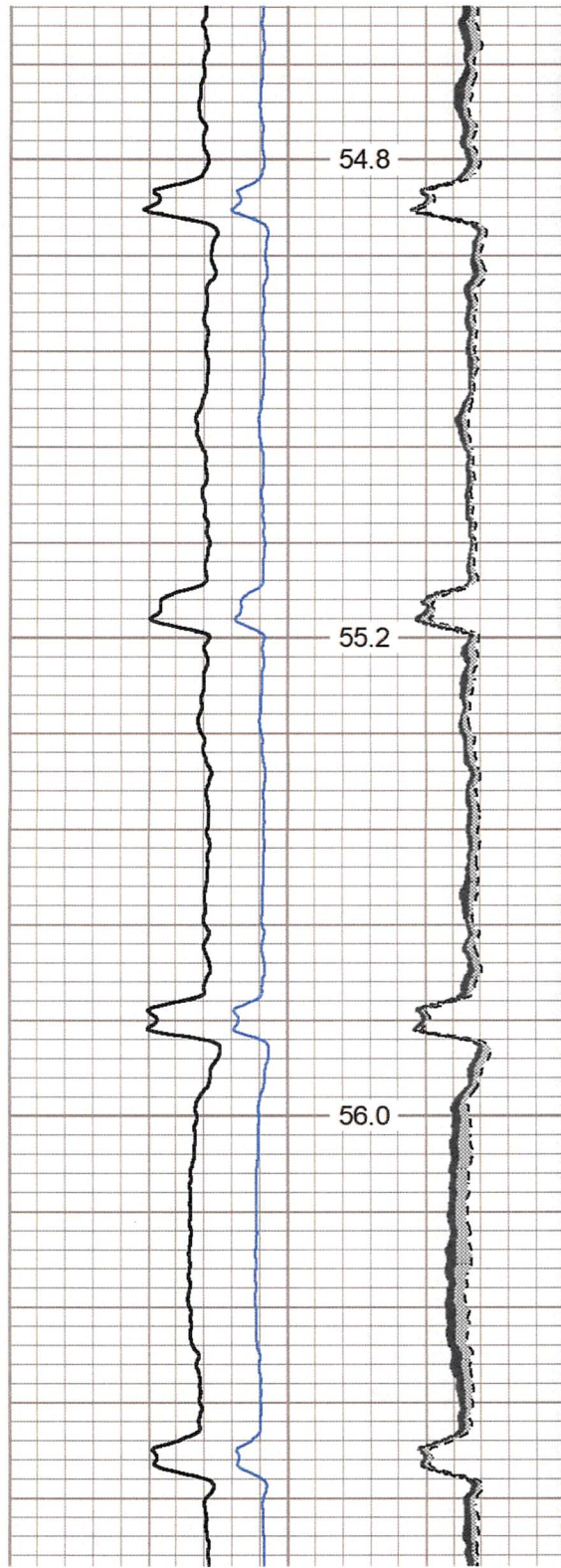




200

250

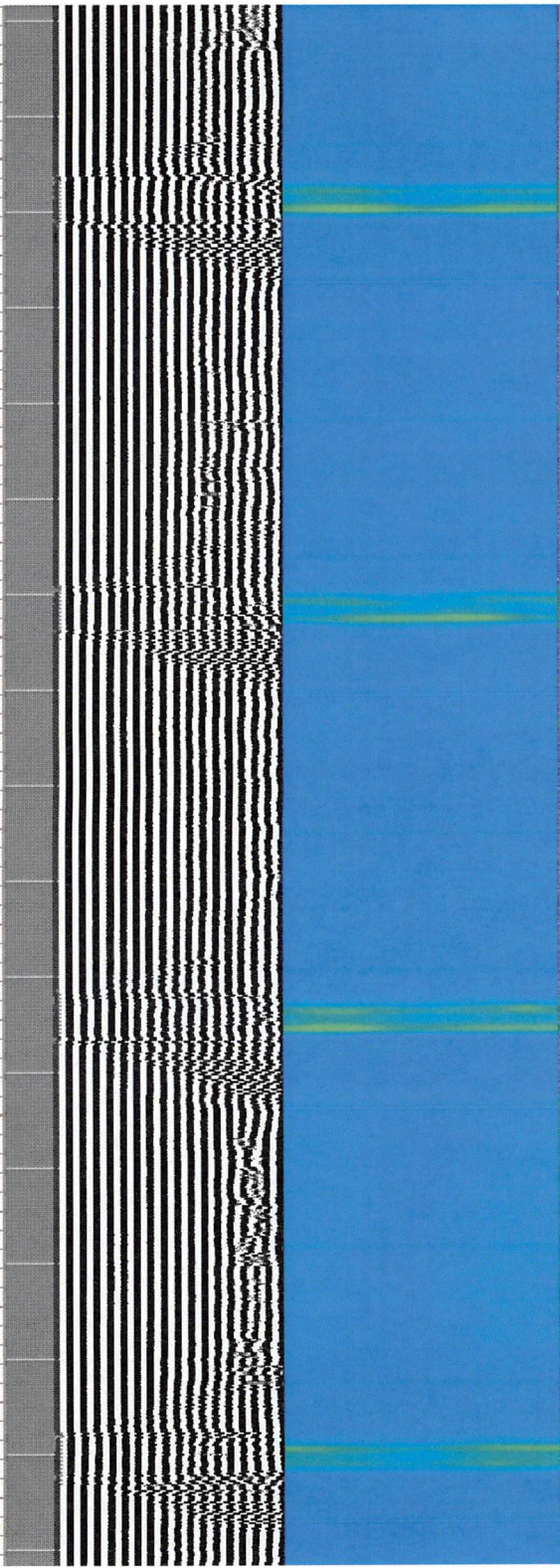
300

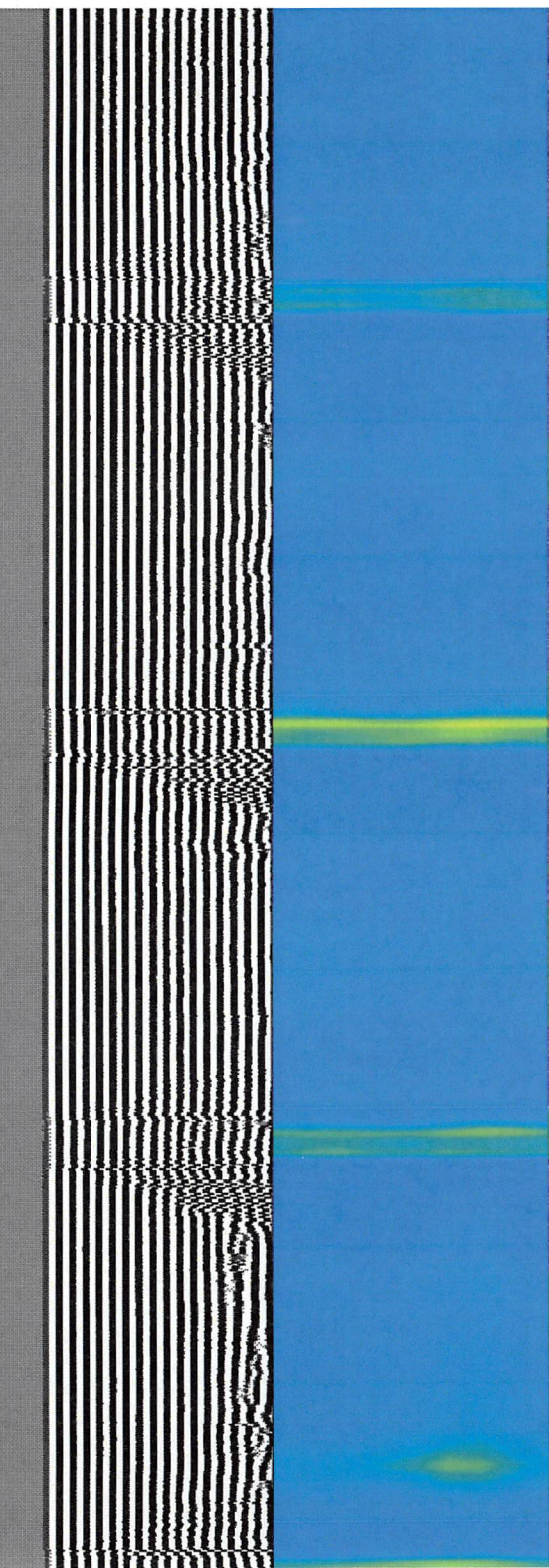
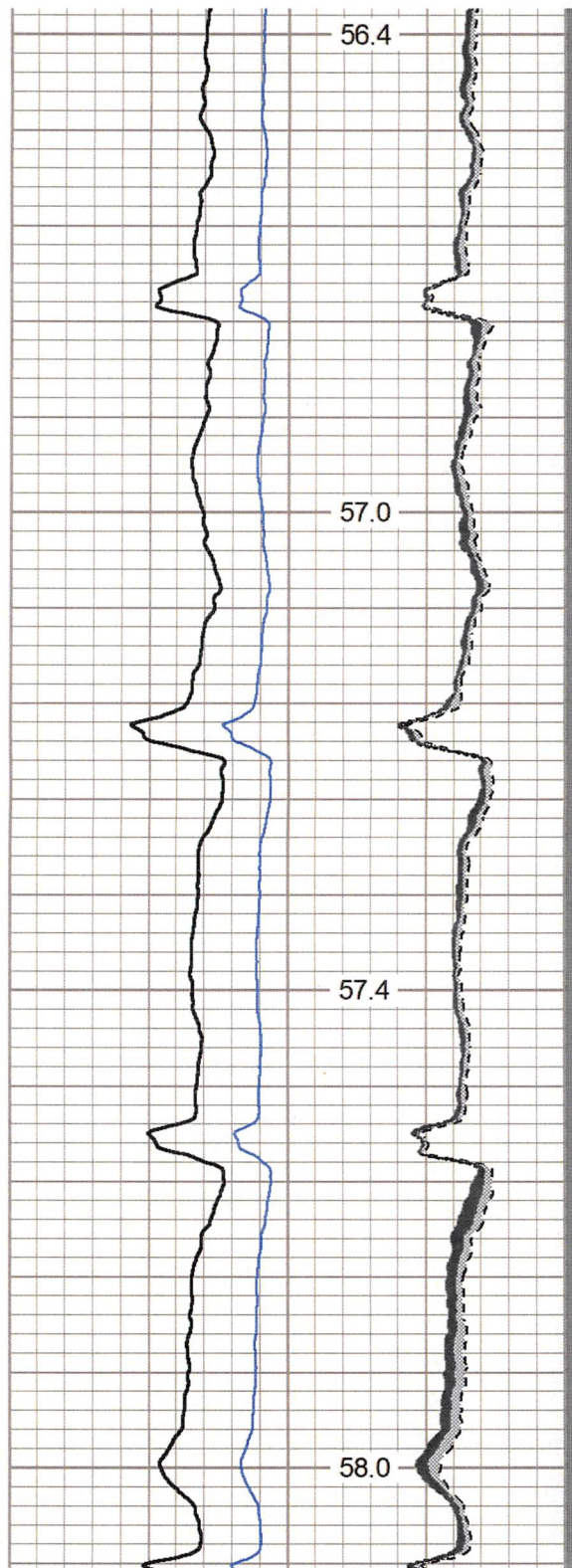
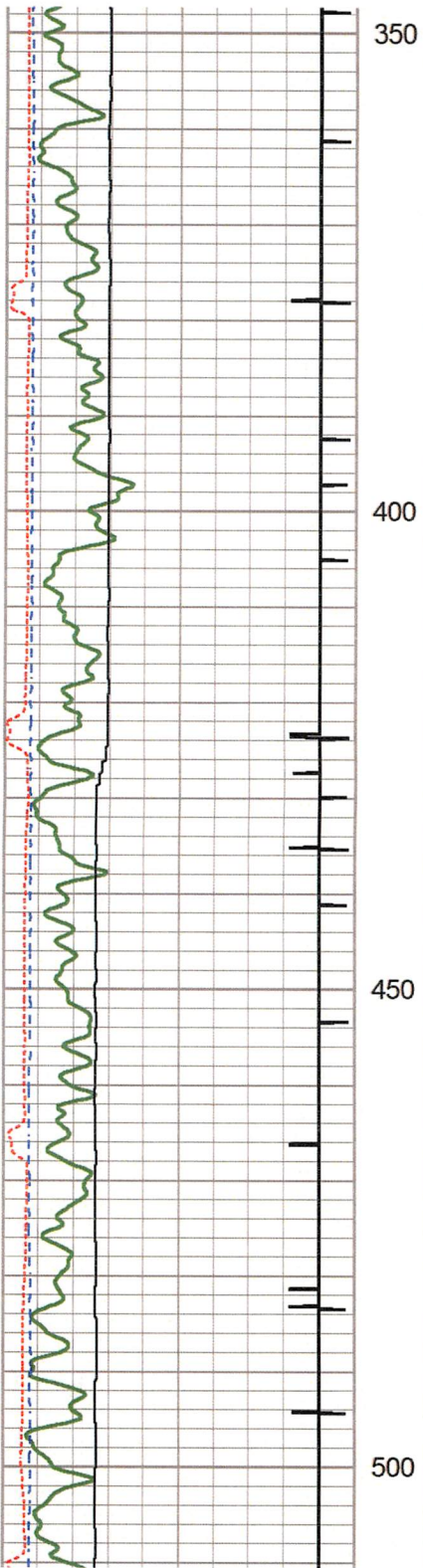


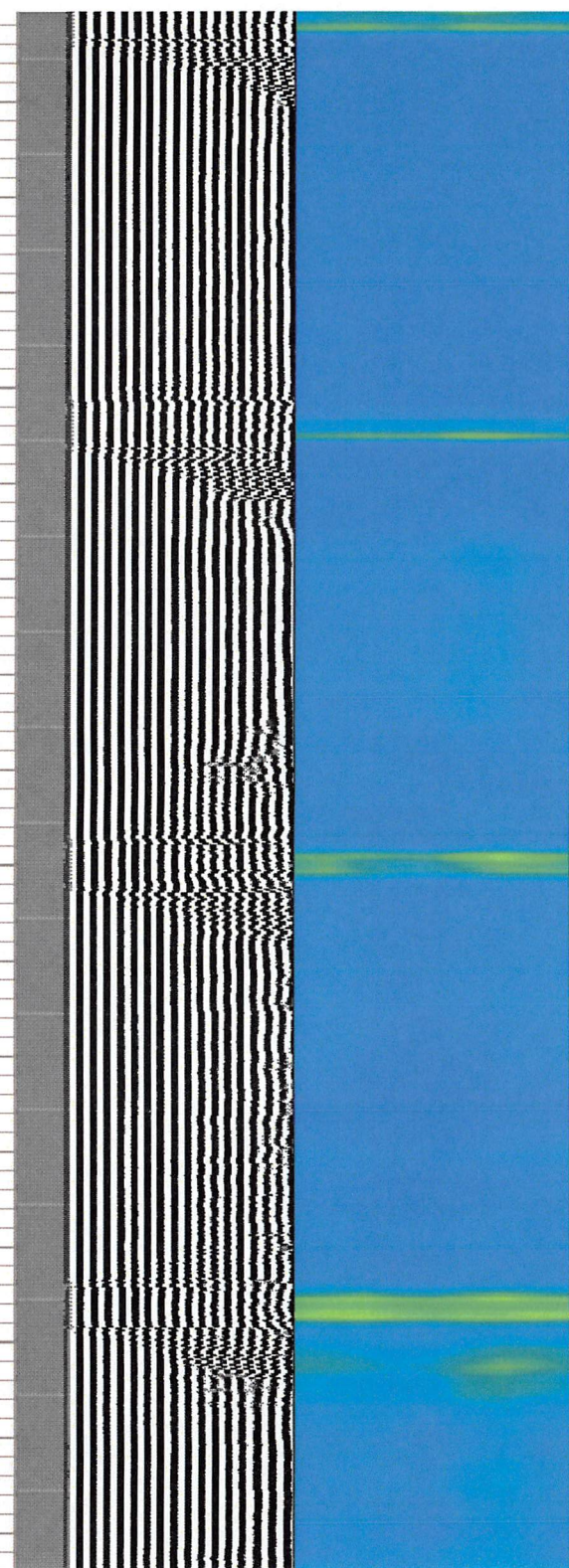
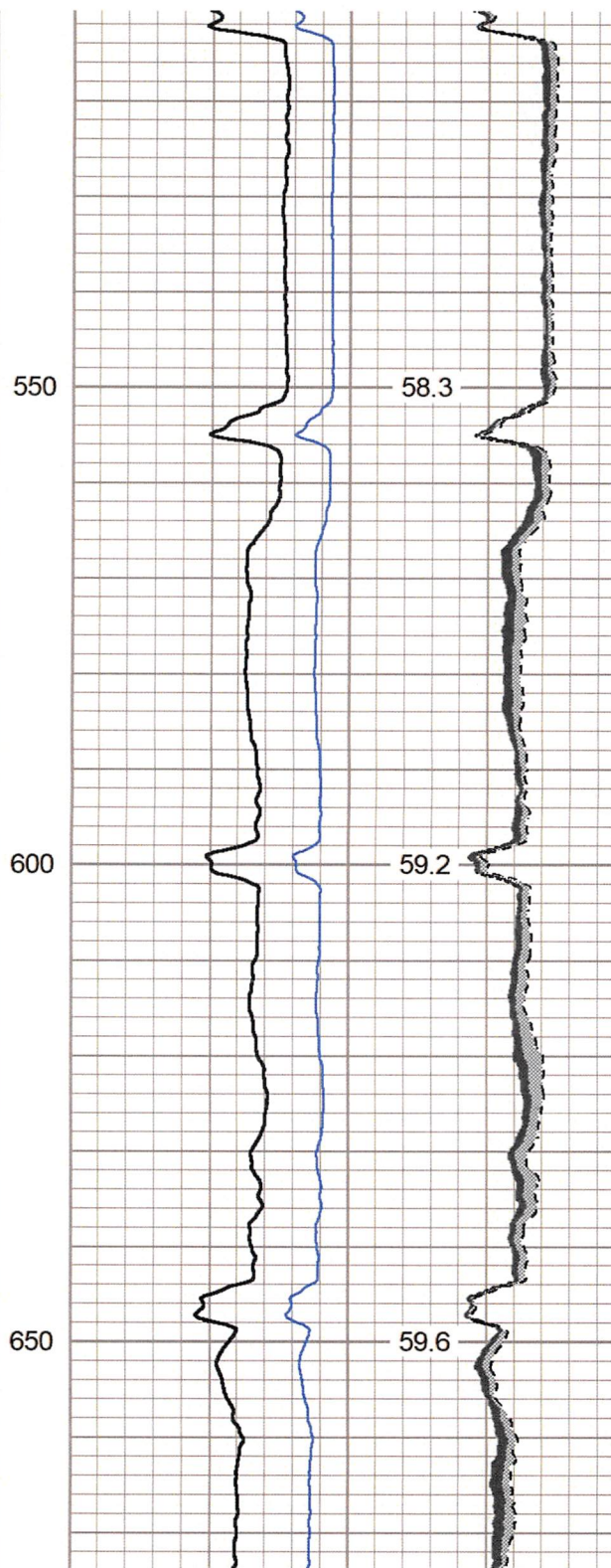
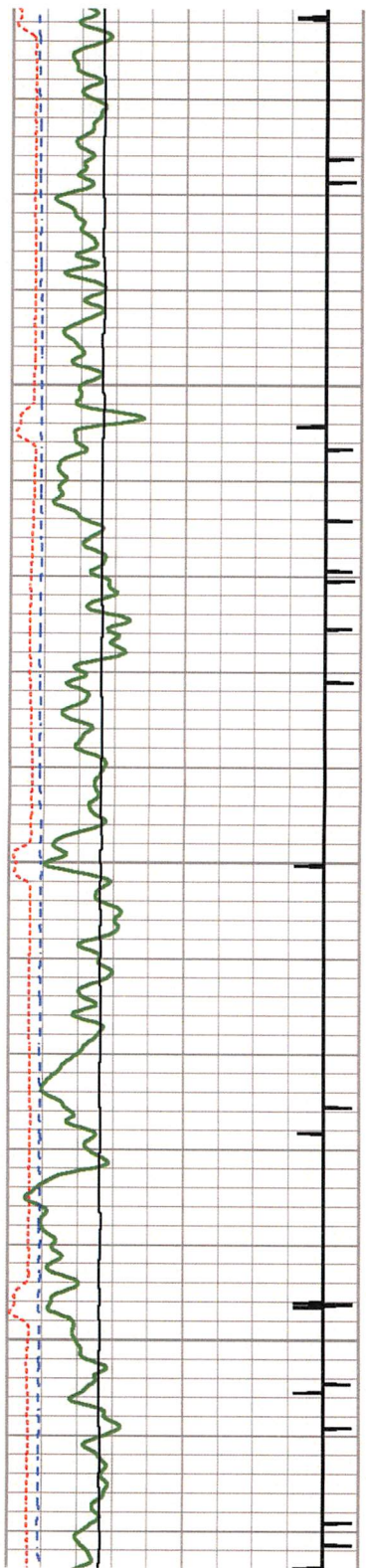
54.8

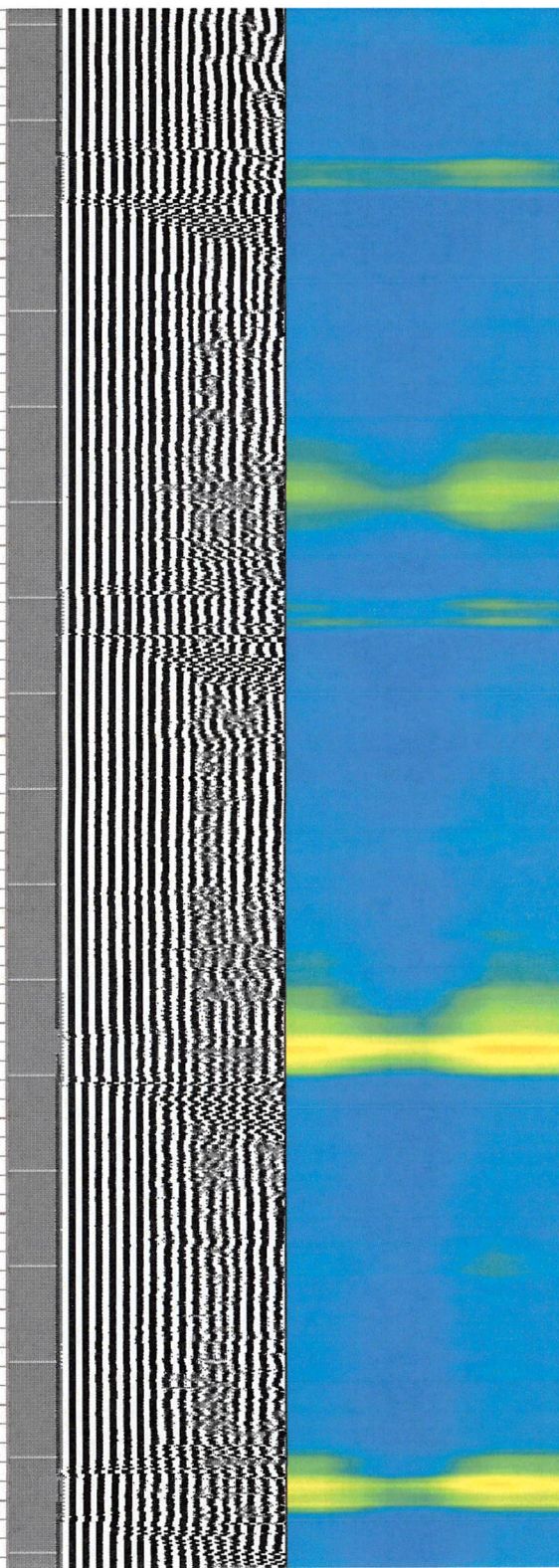
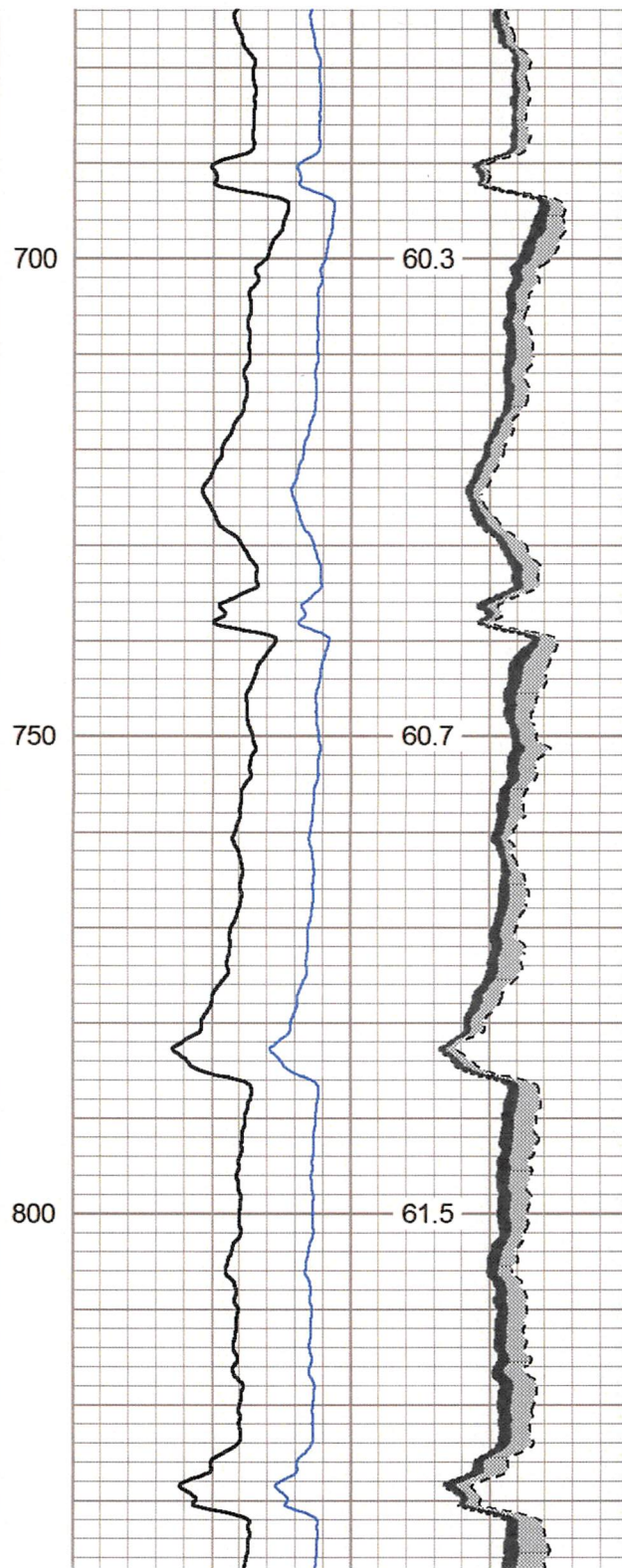
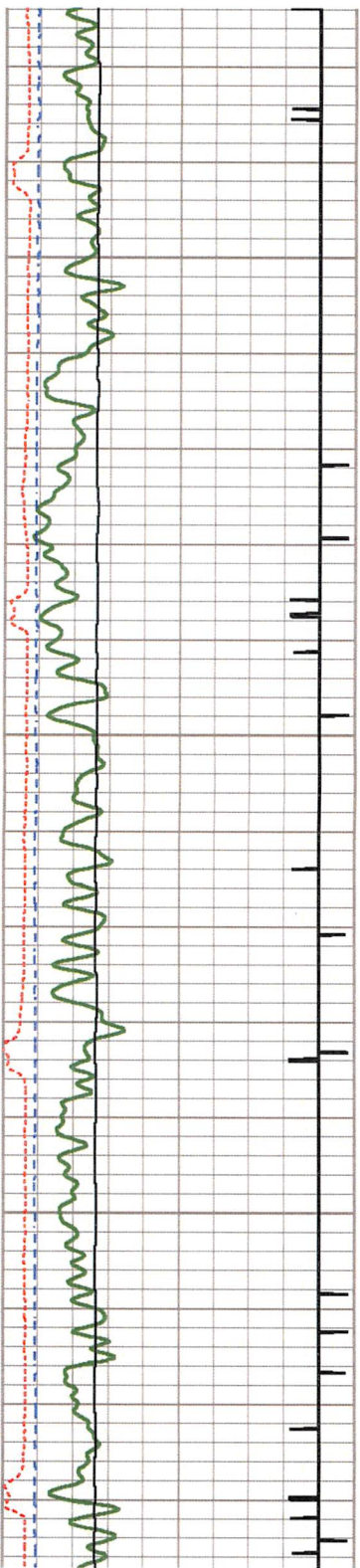
55.2

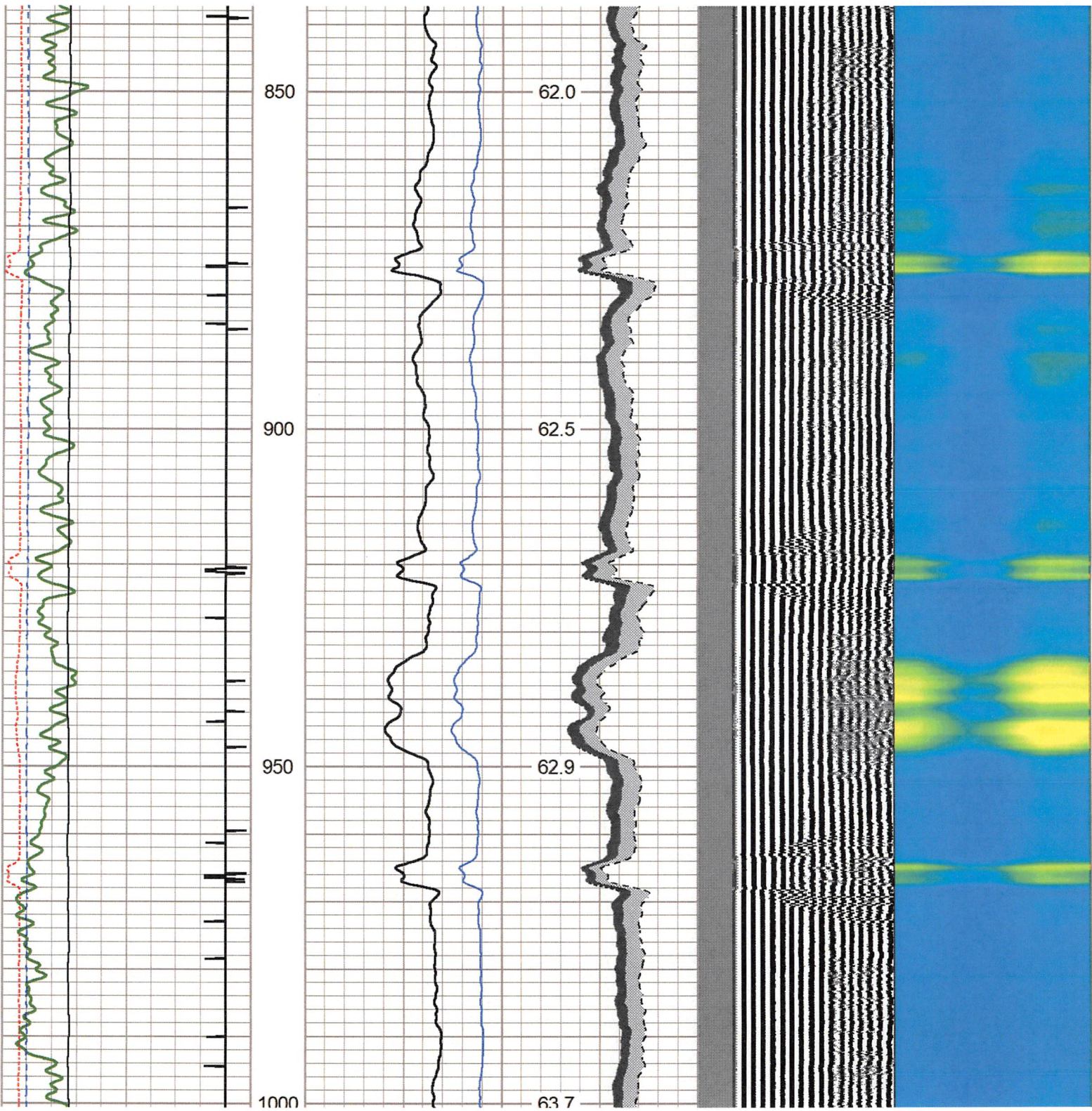
56.0

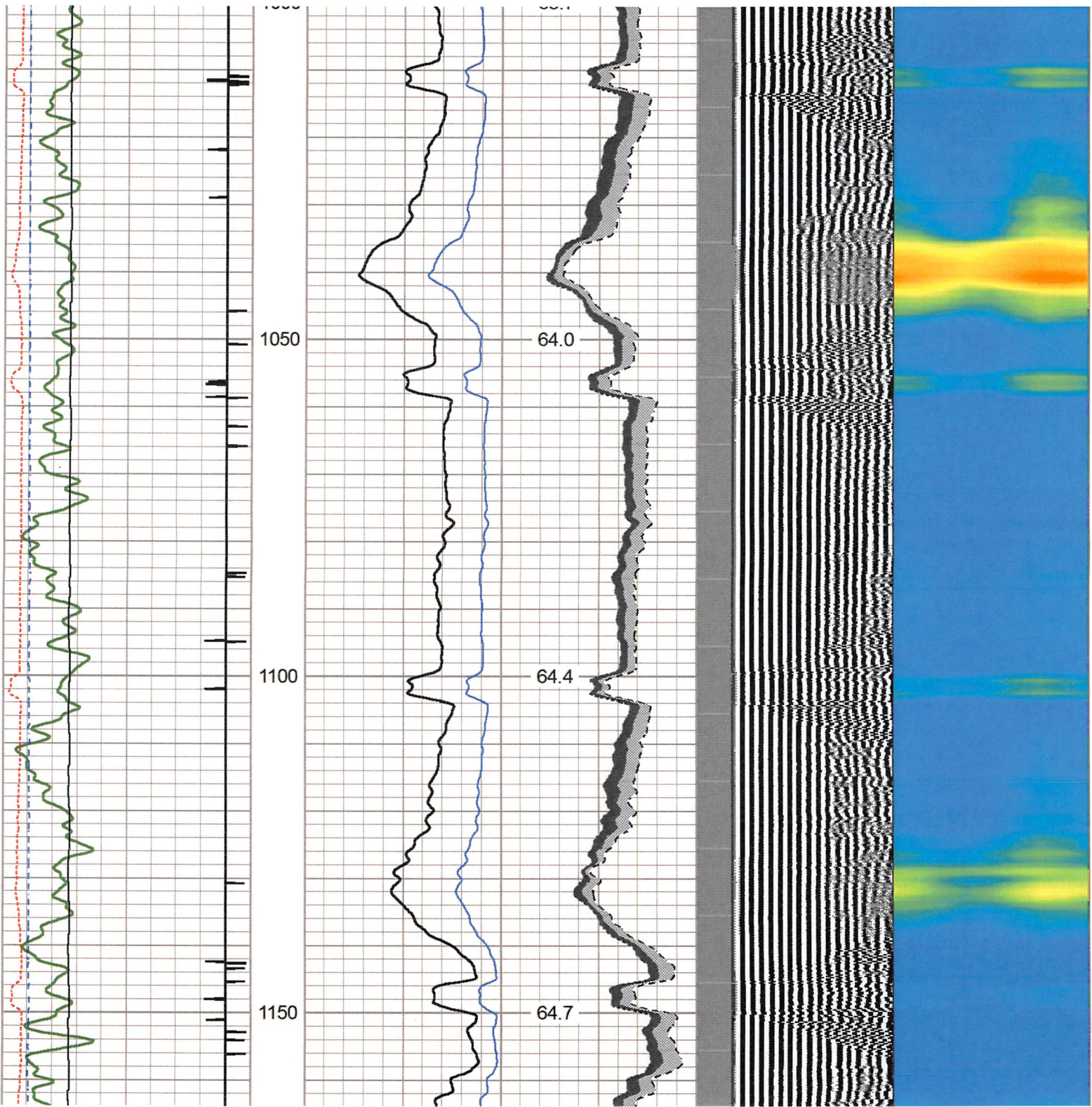


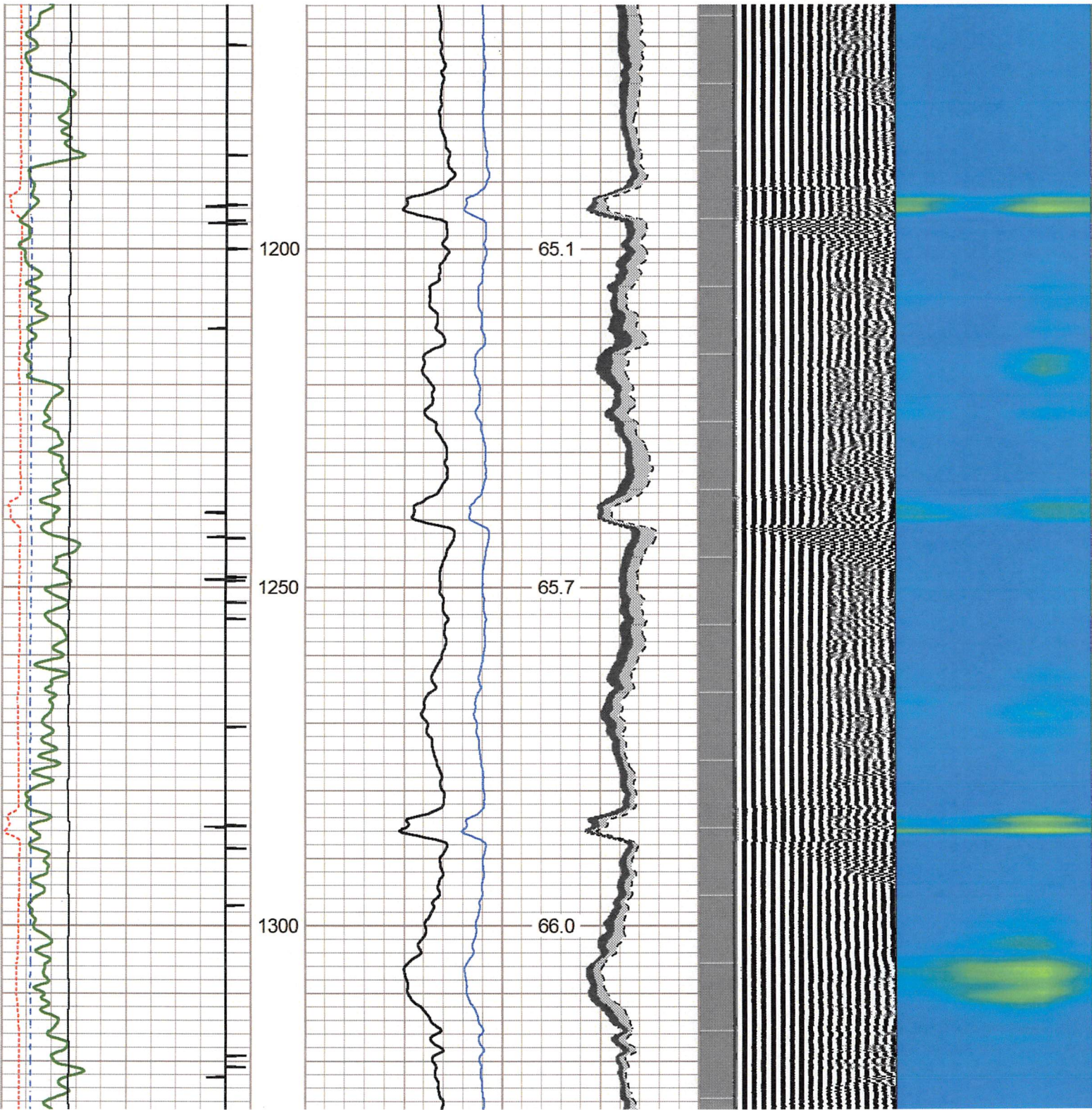


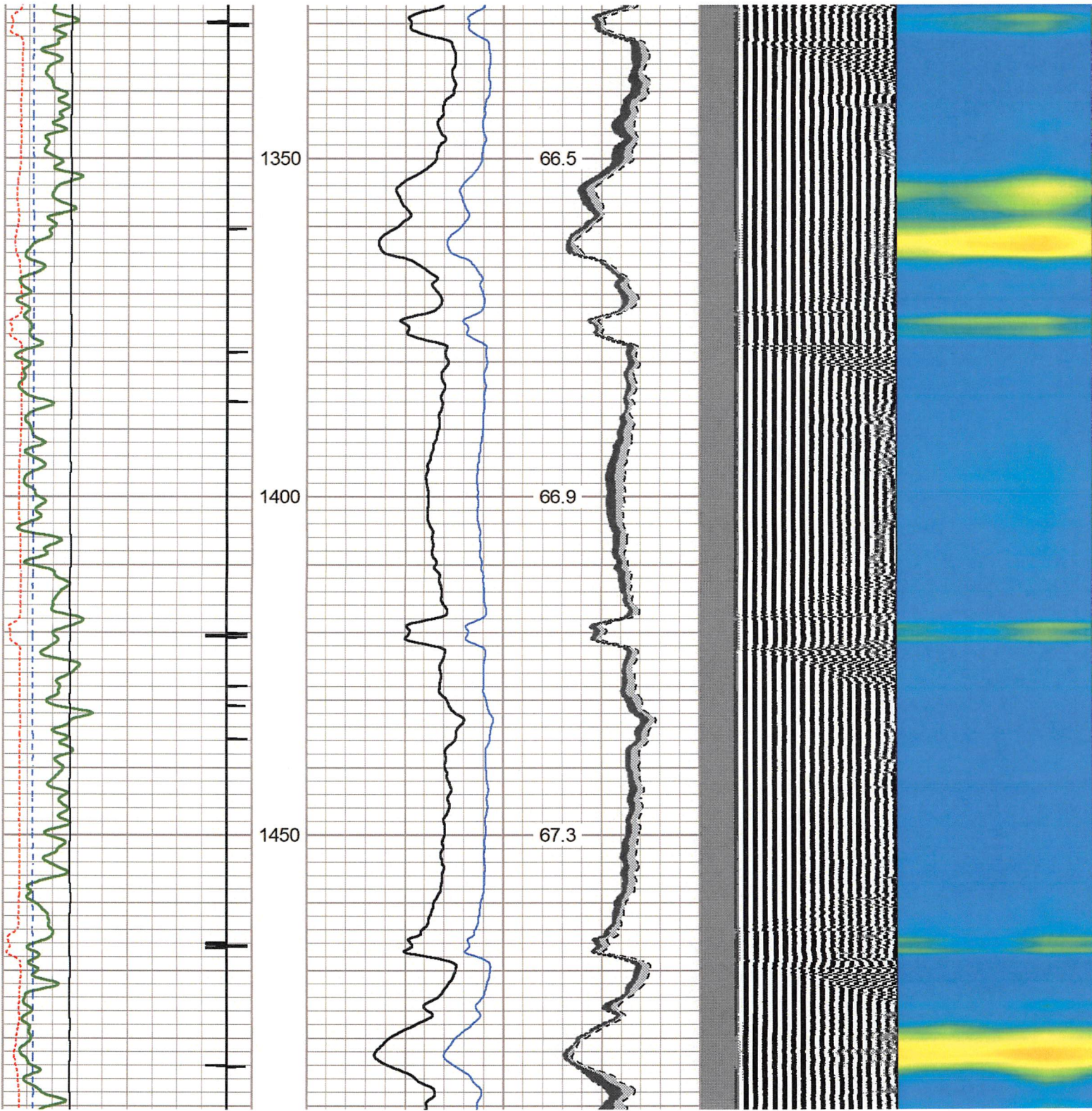


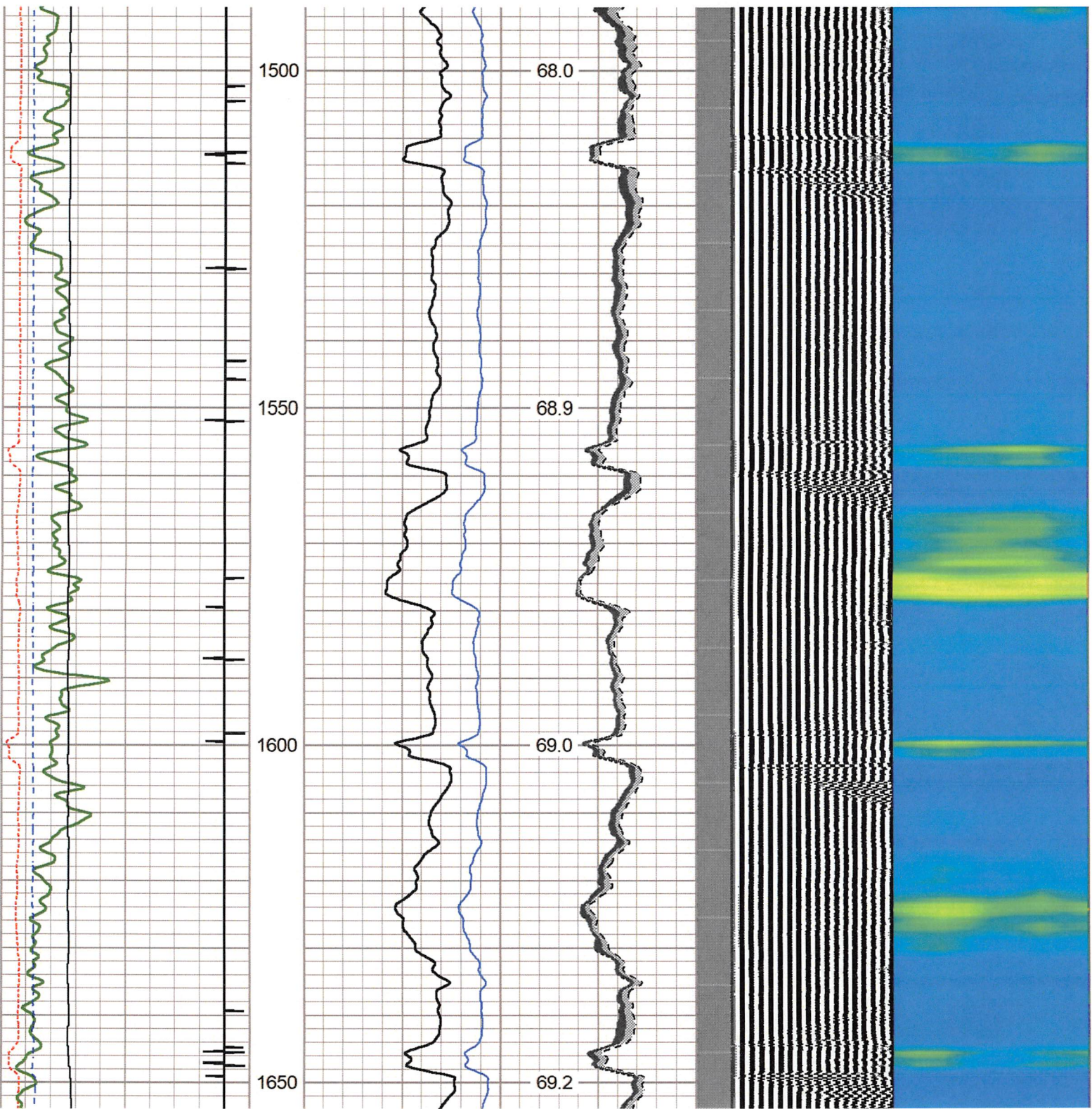


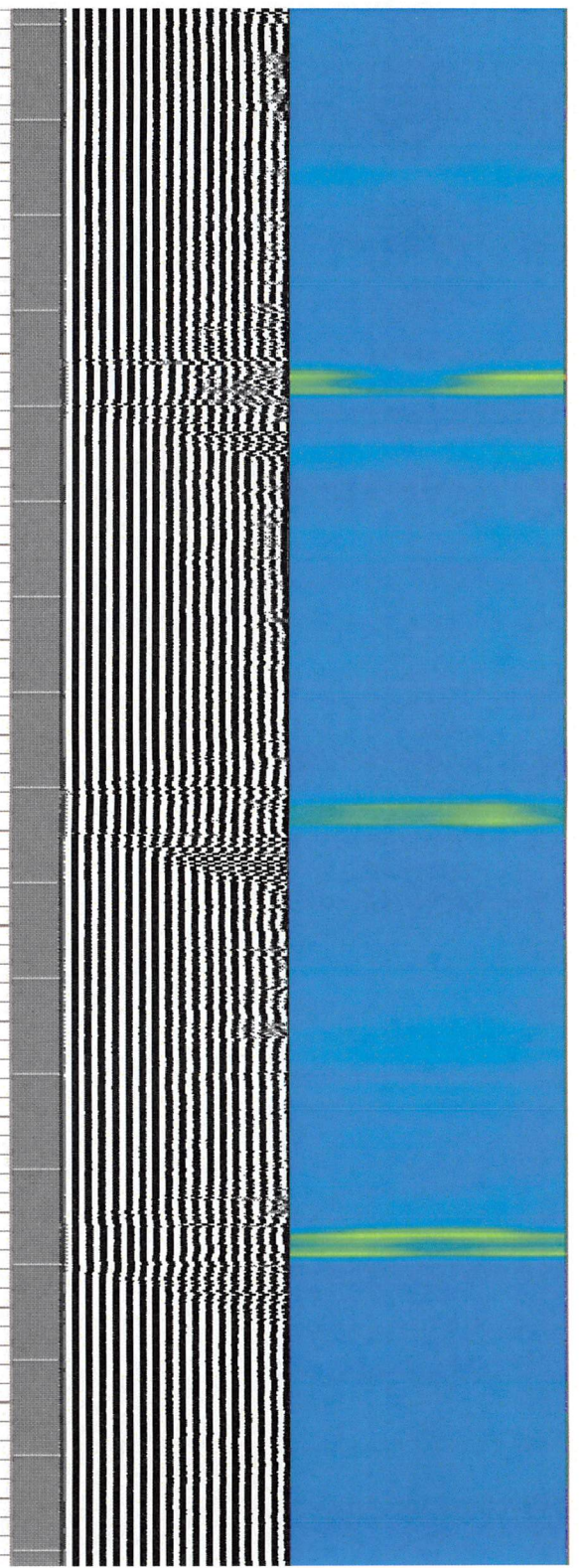
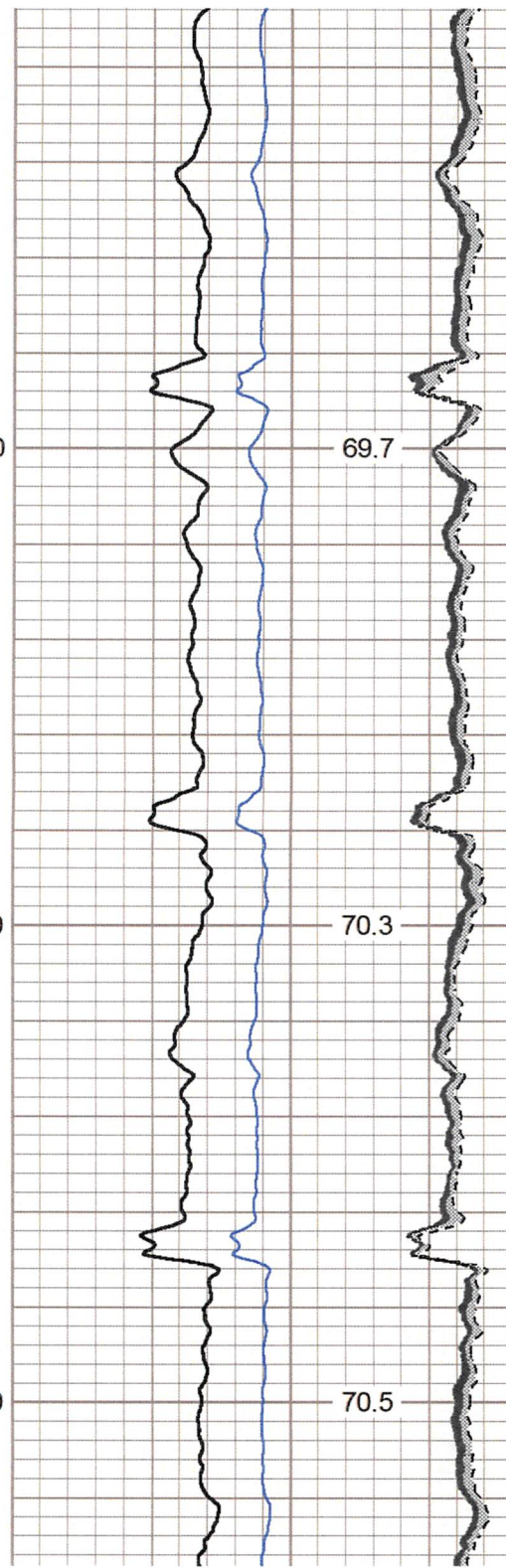
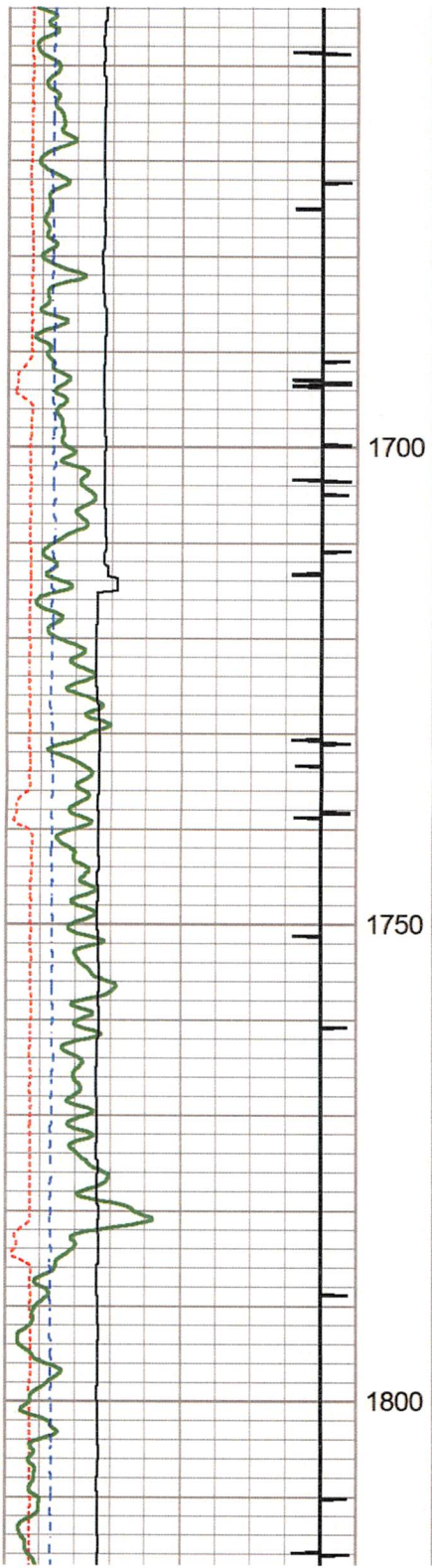


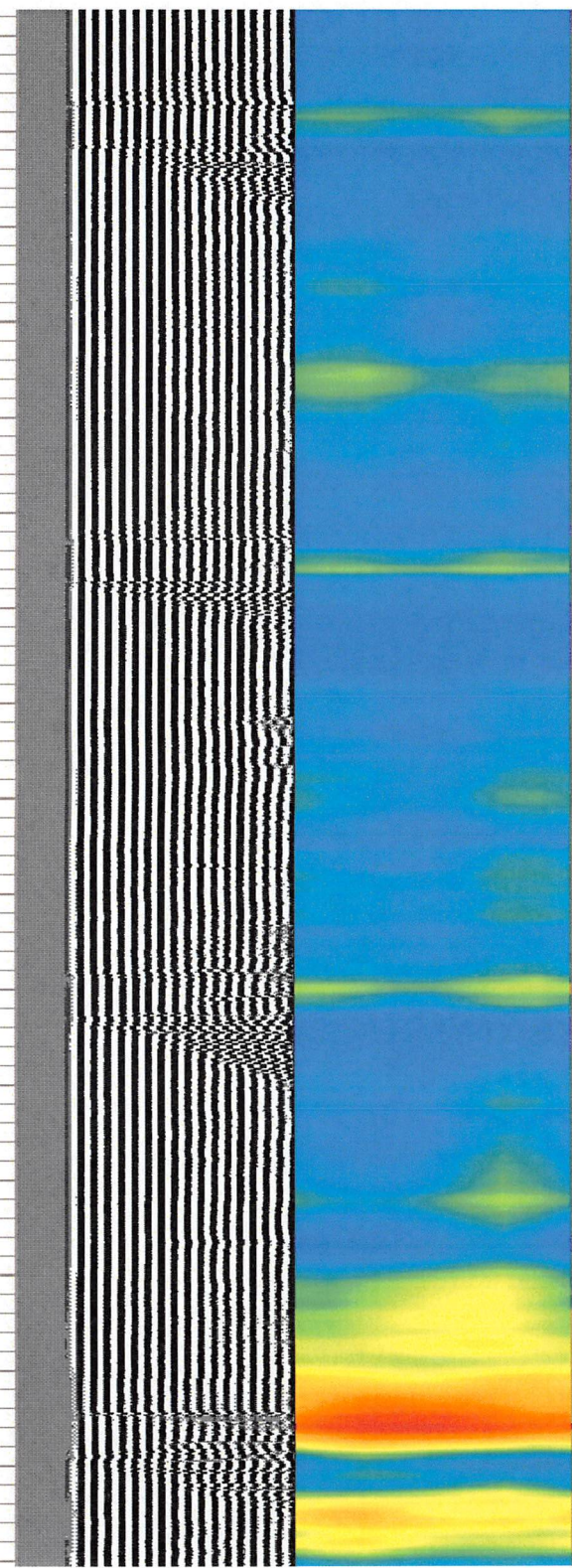
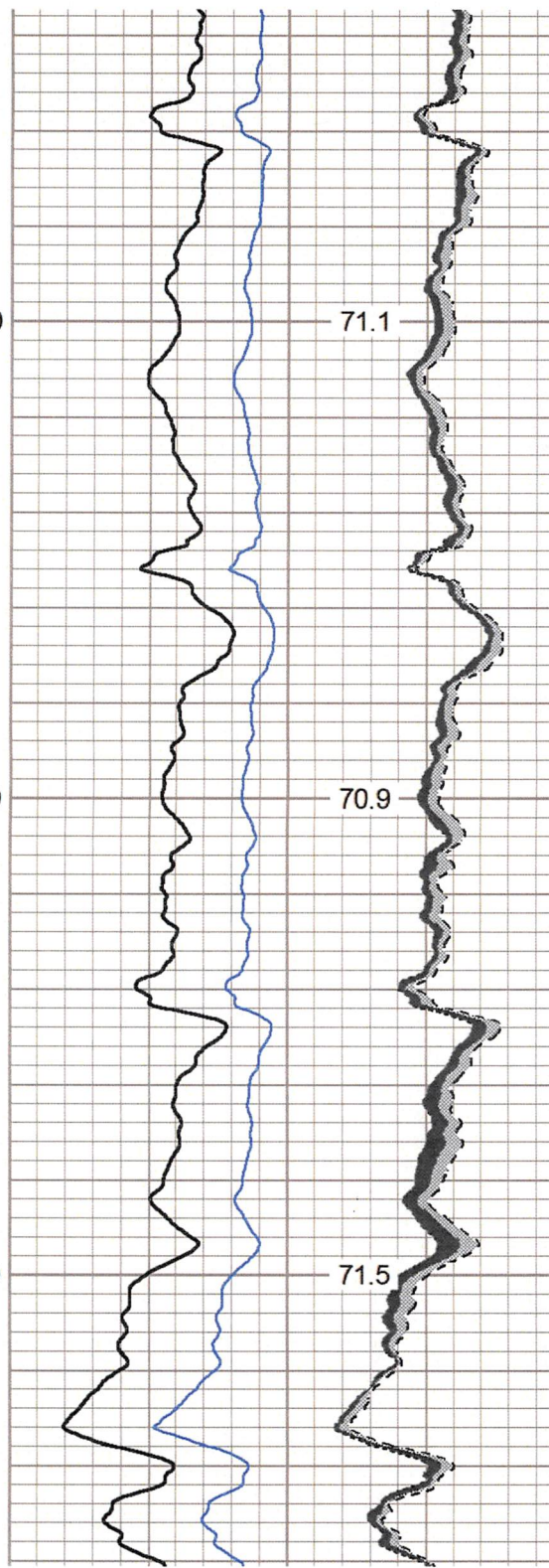
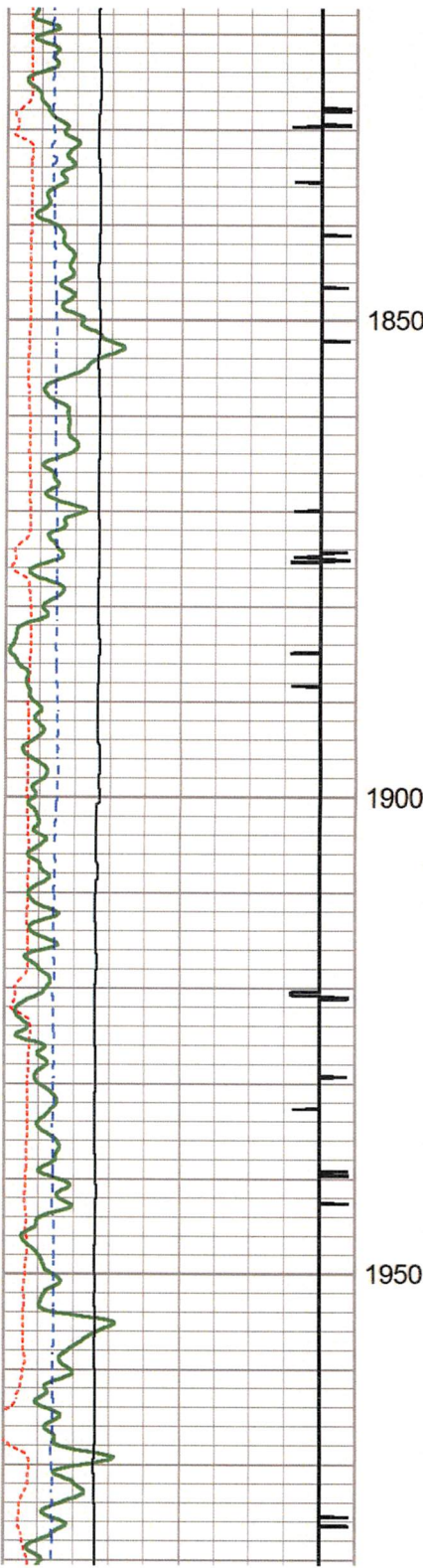


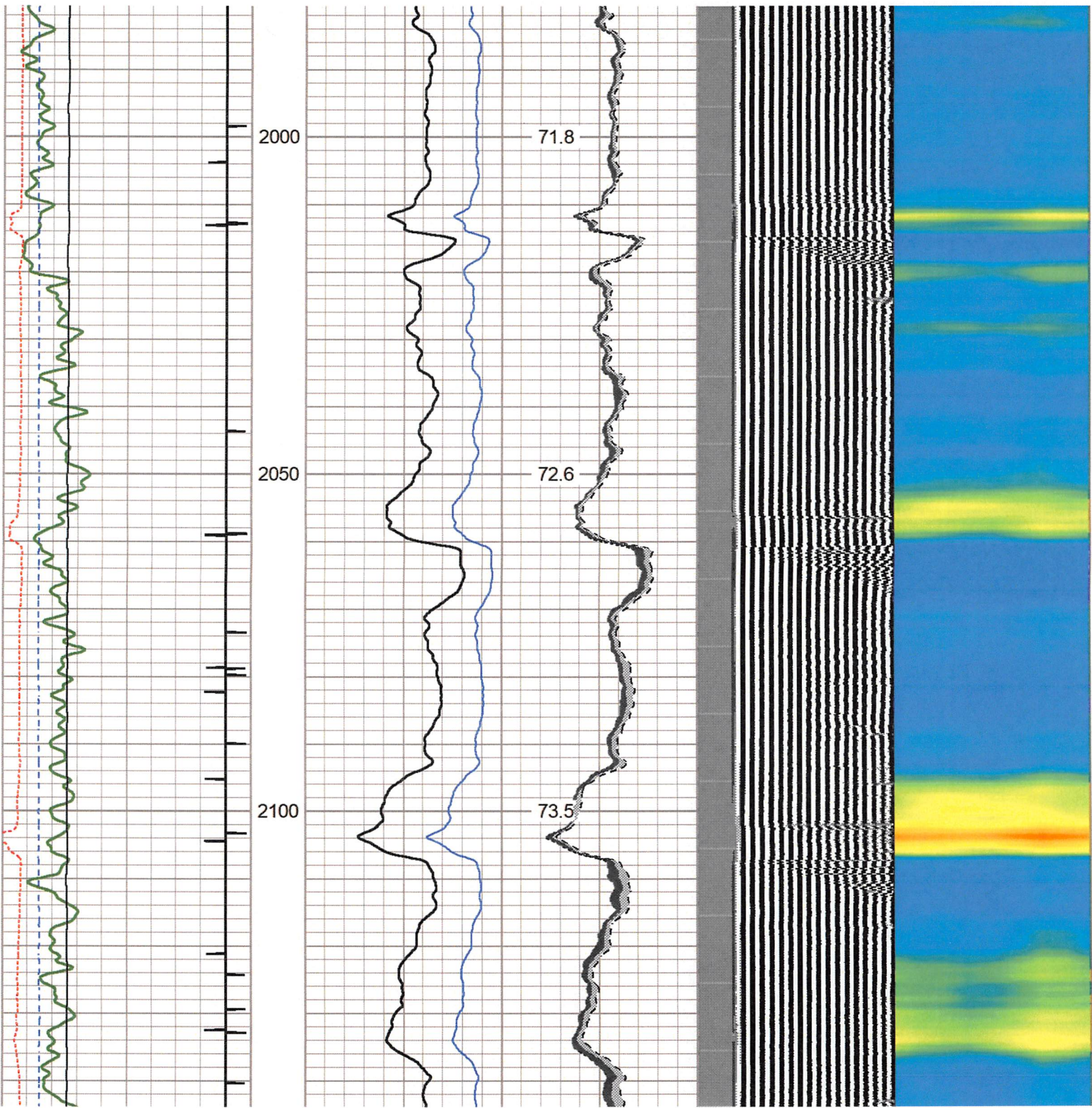


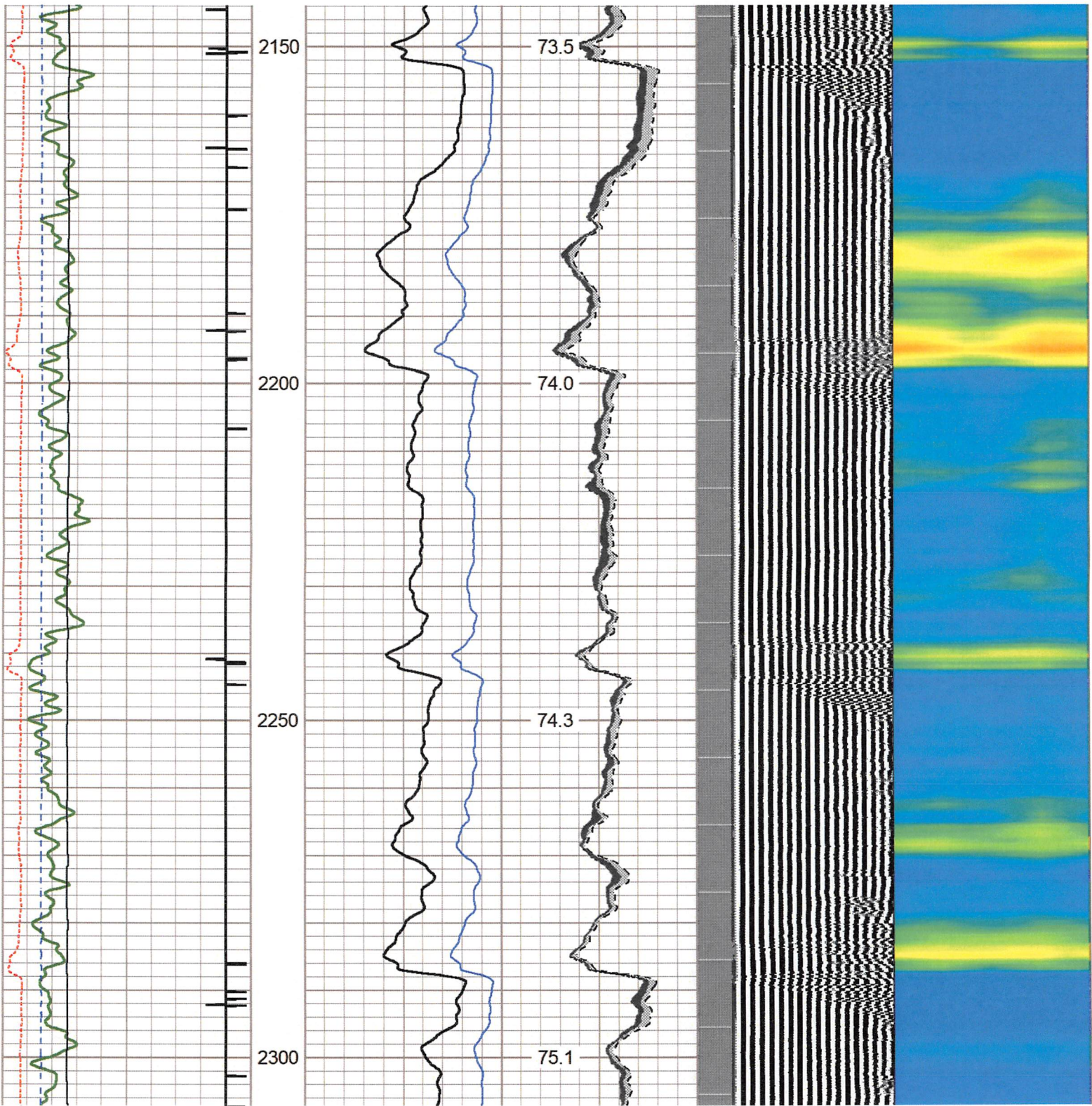


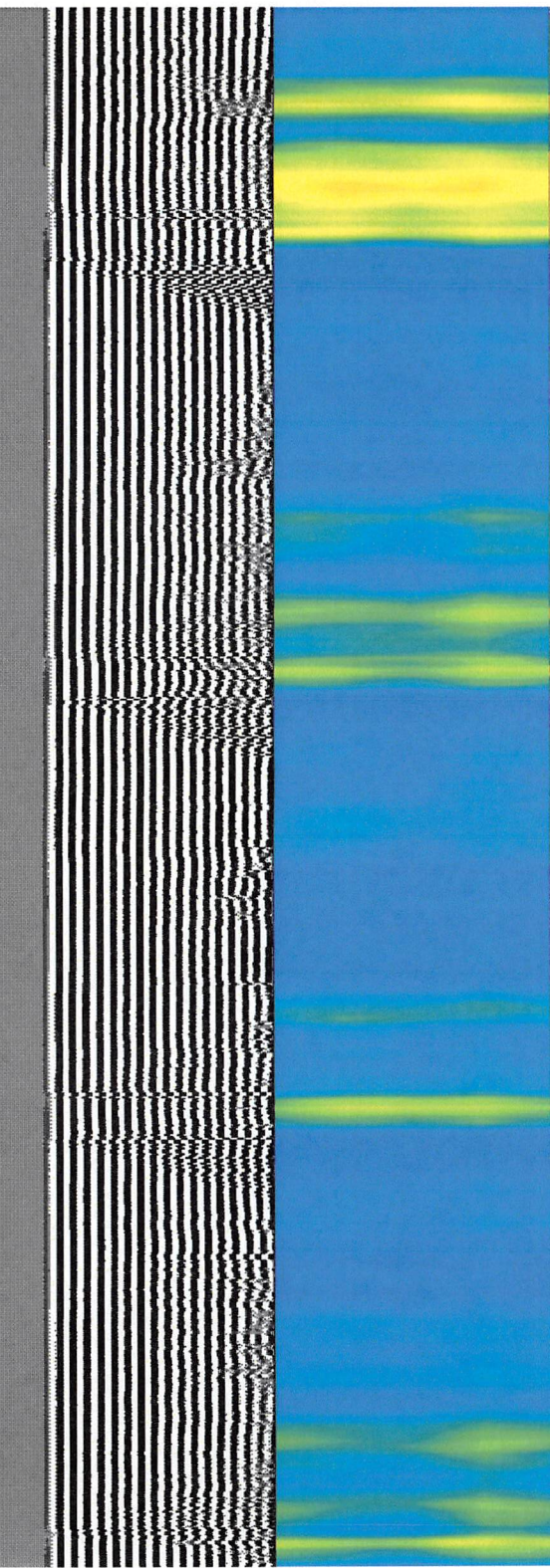
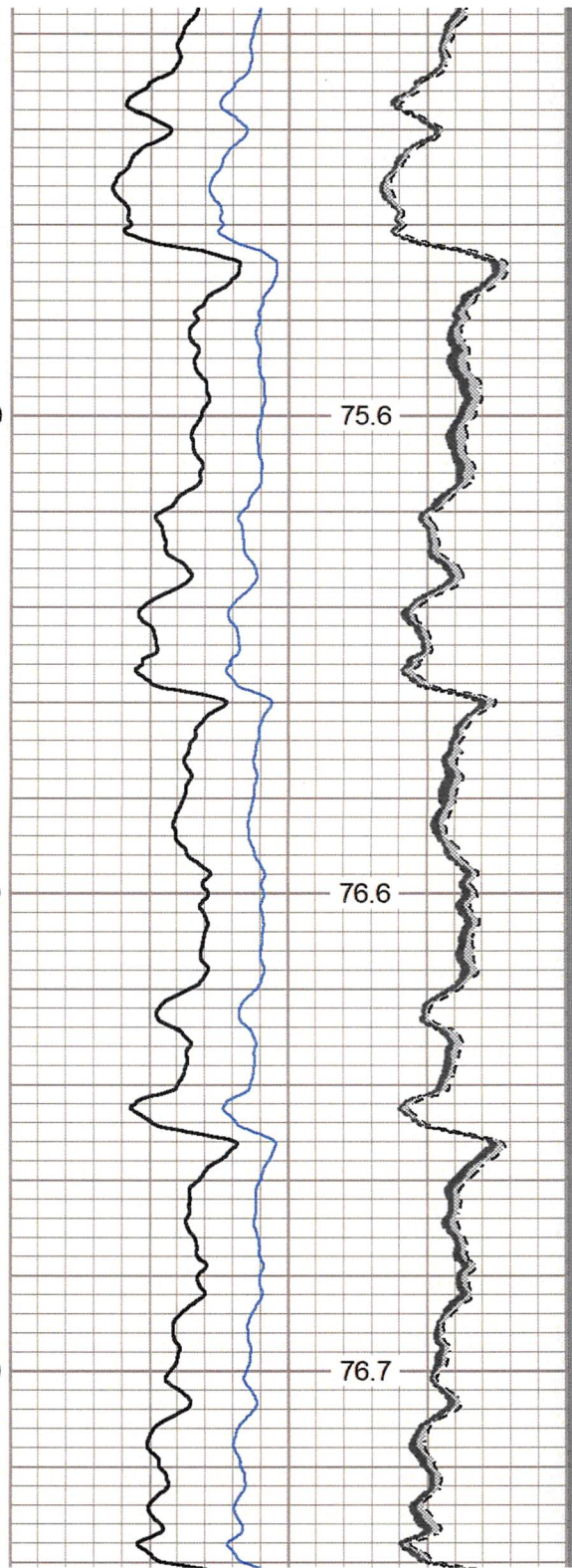
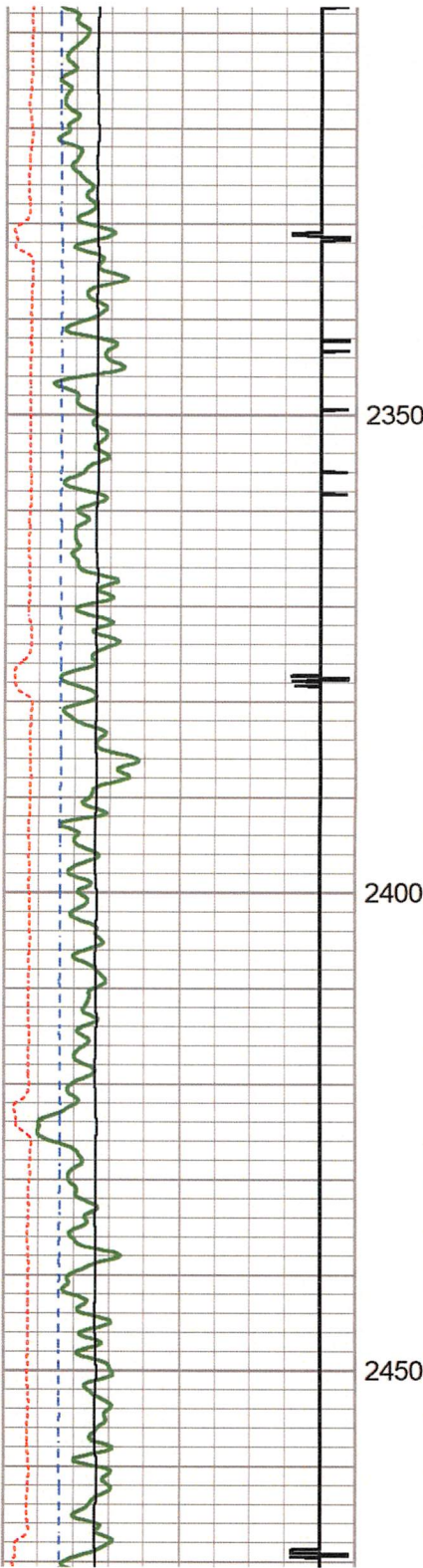


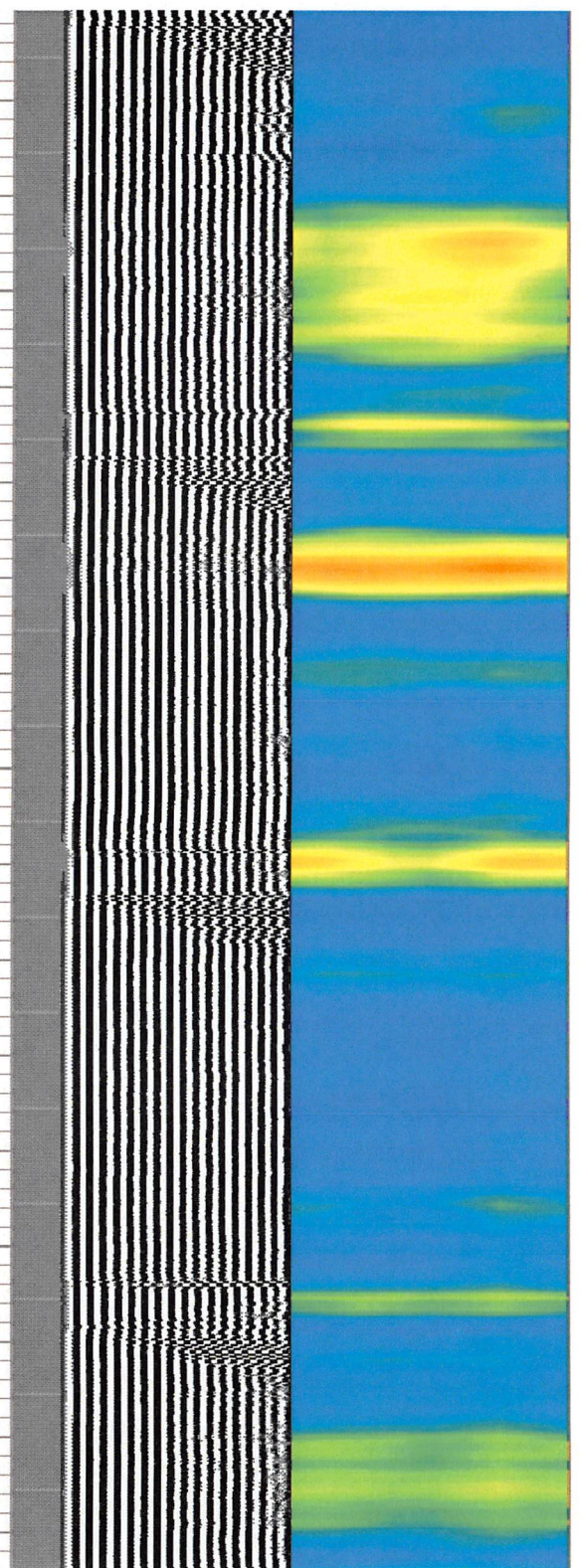
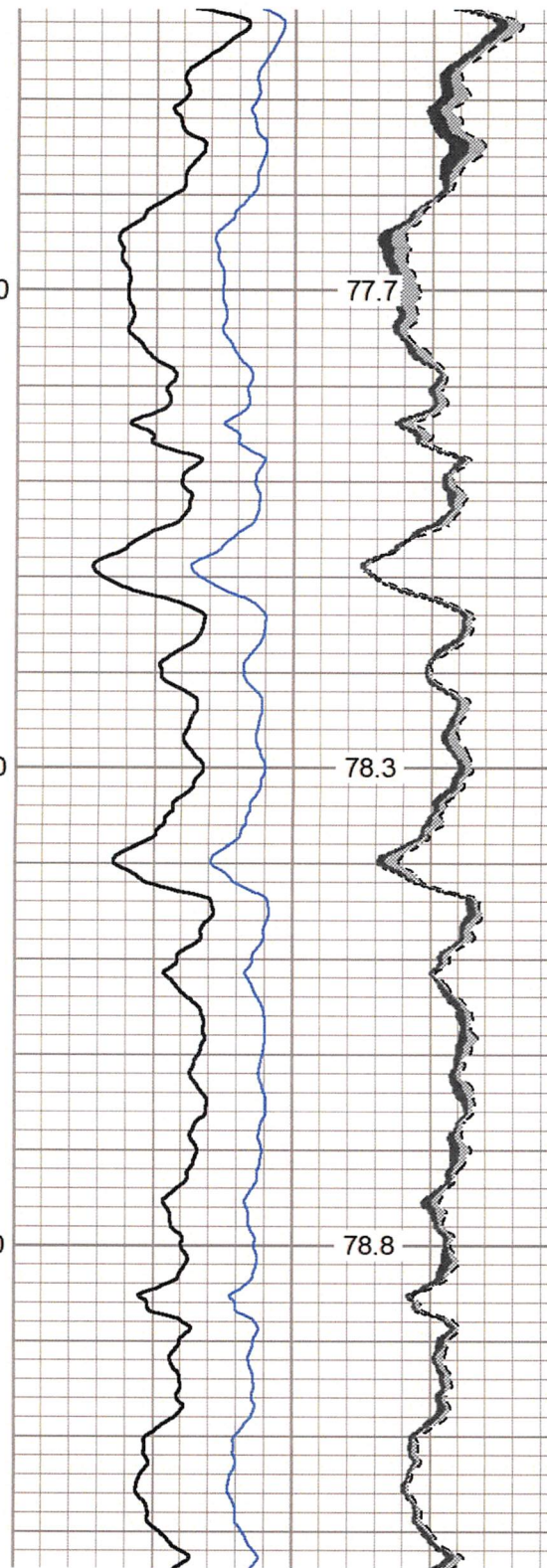
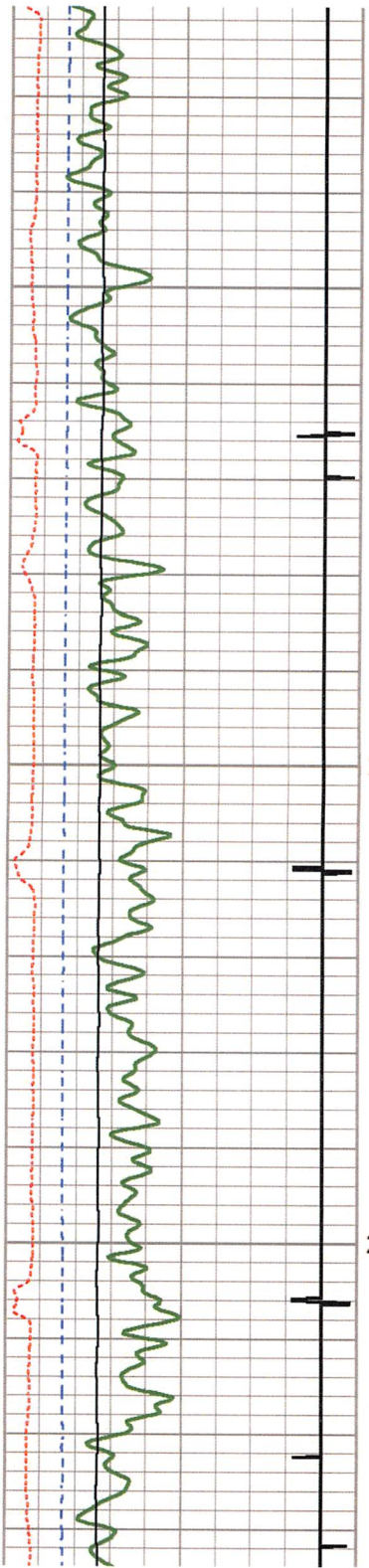


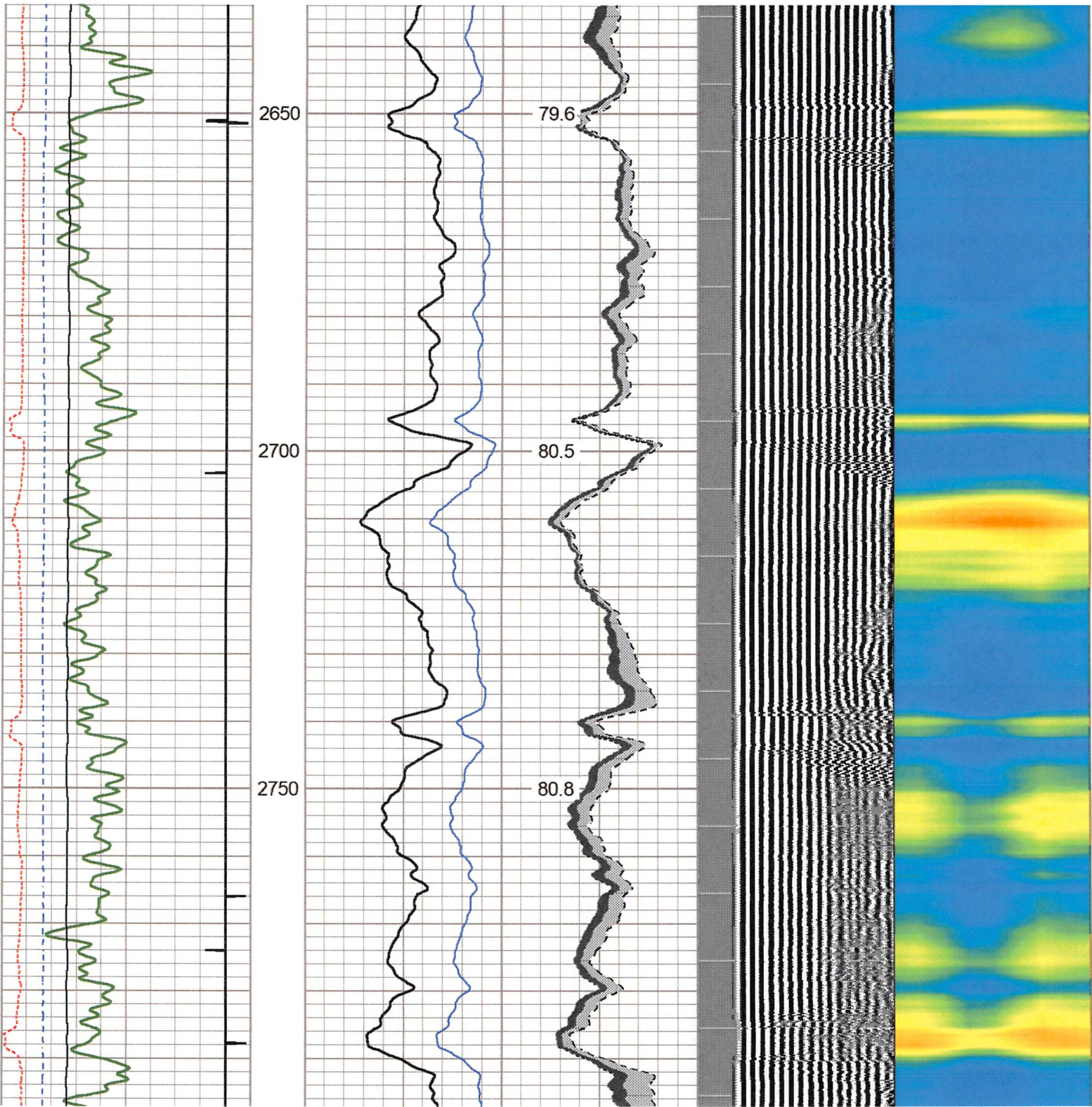


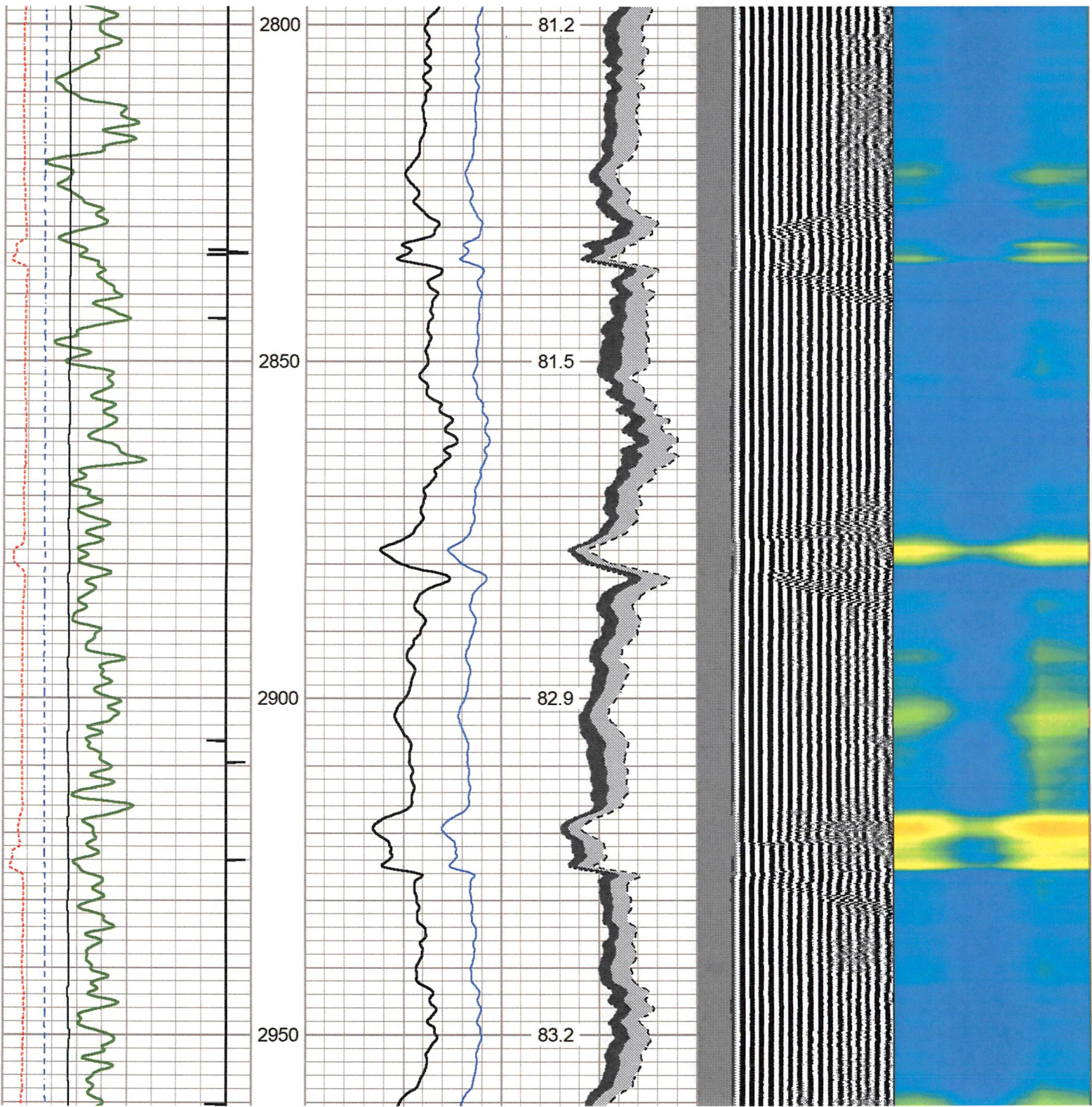


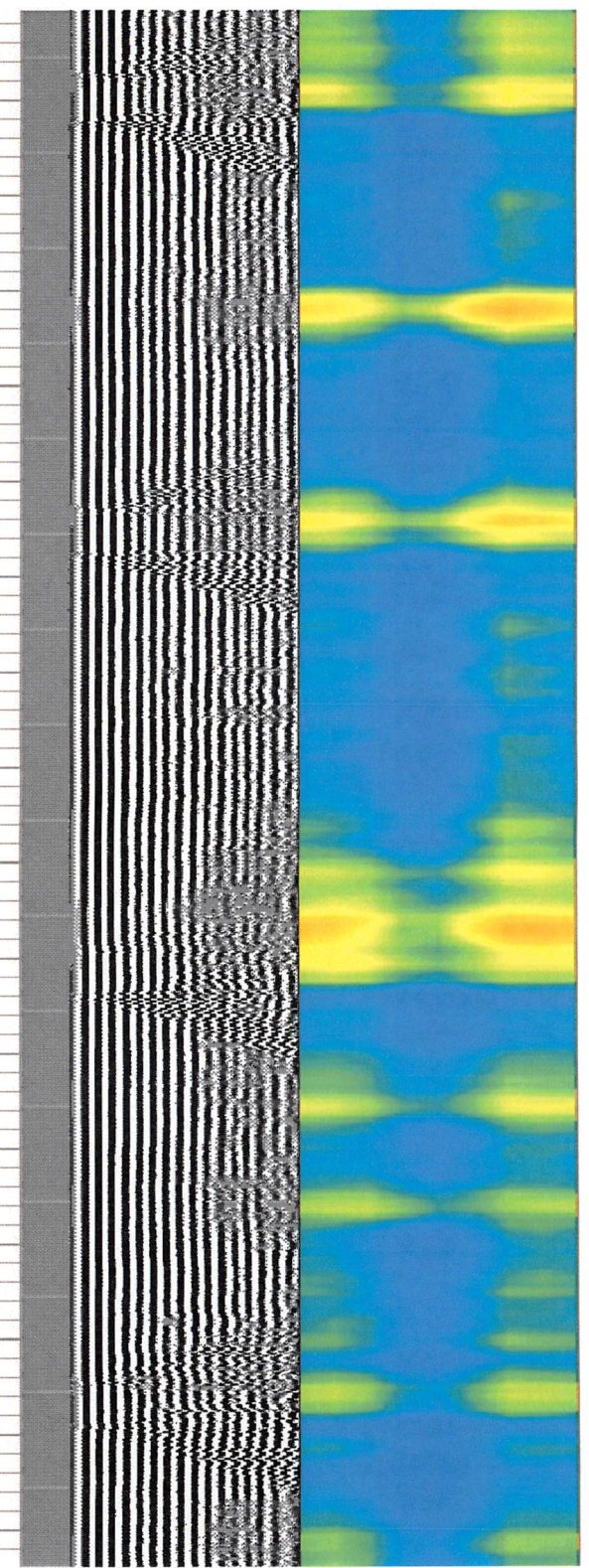
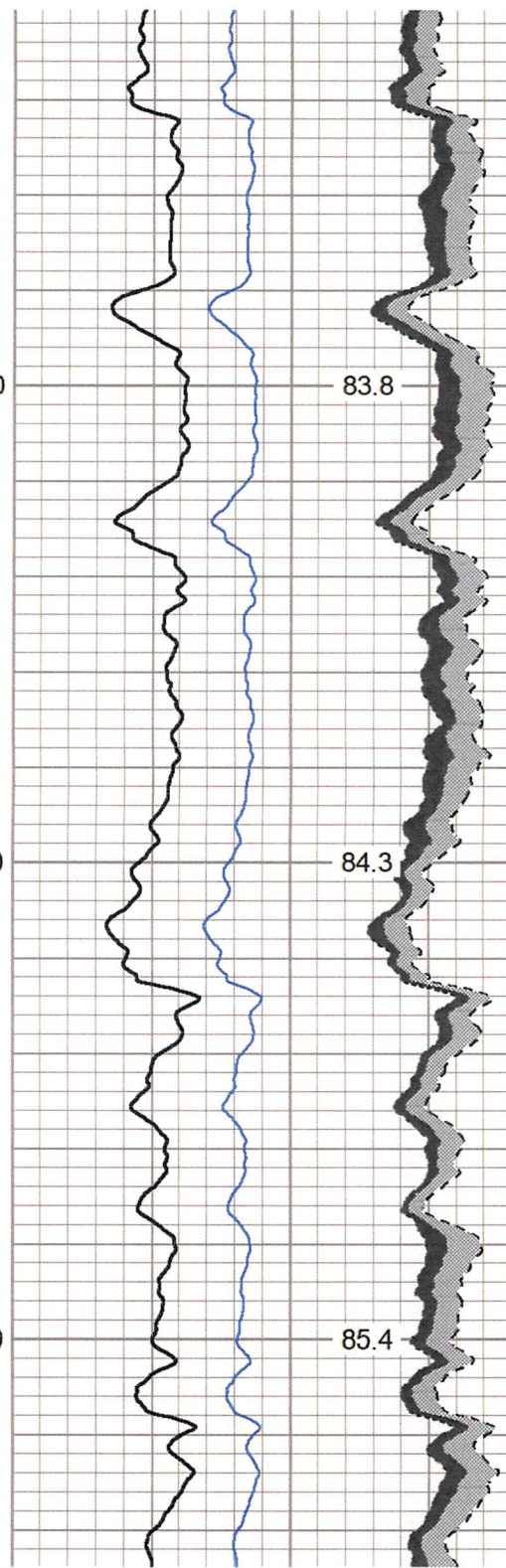
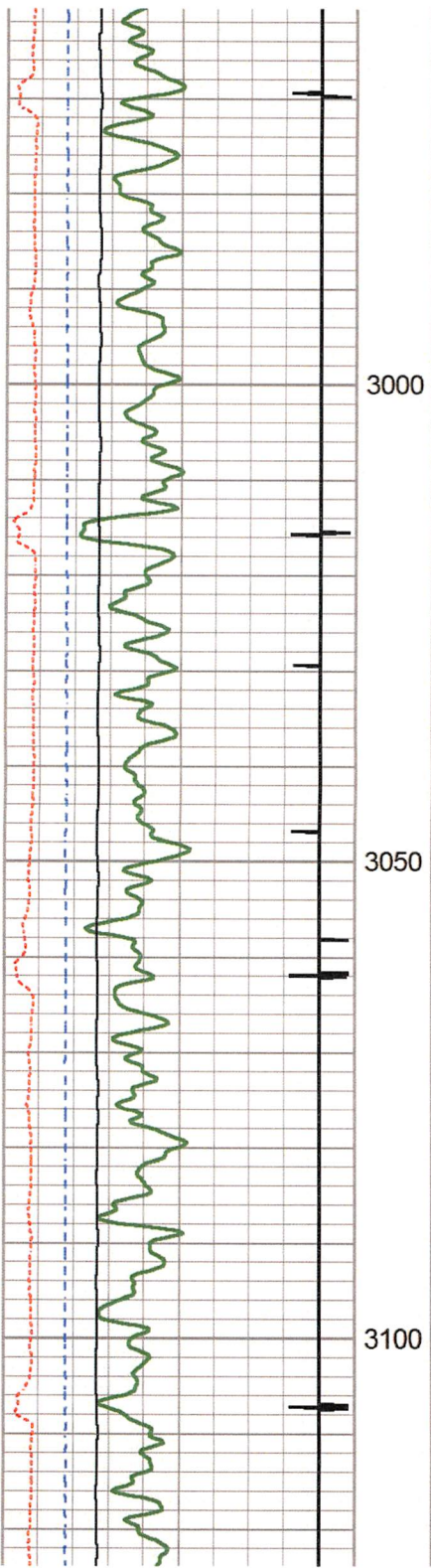


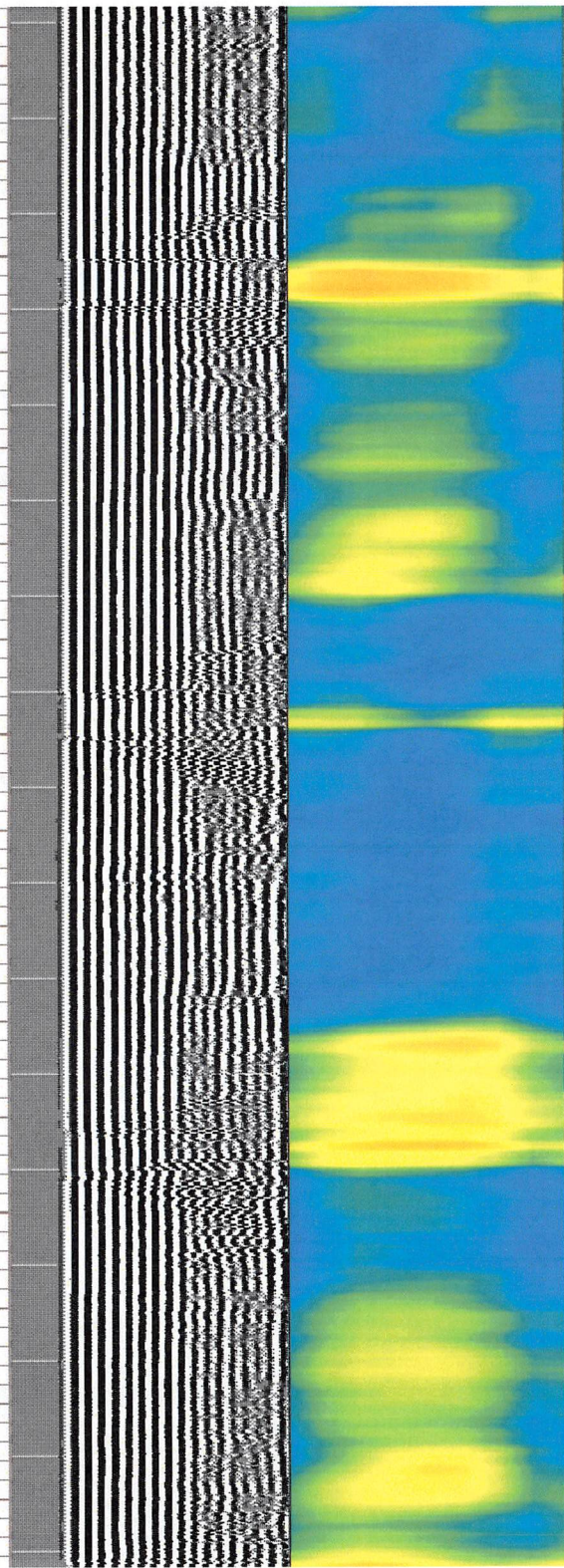
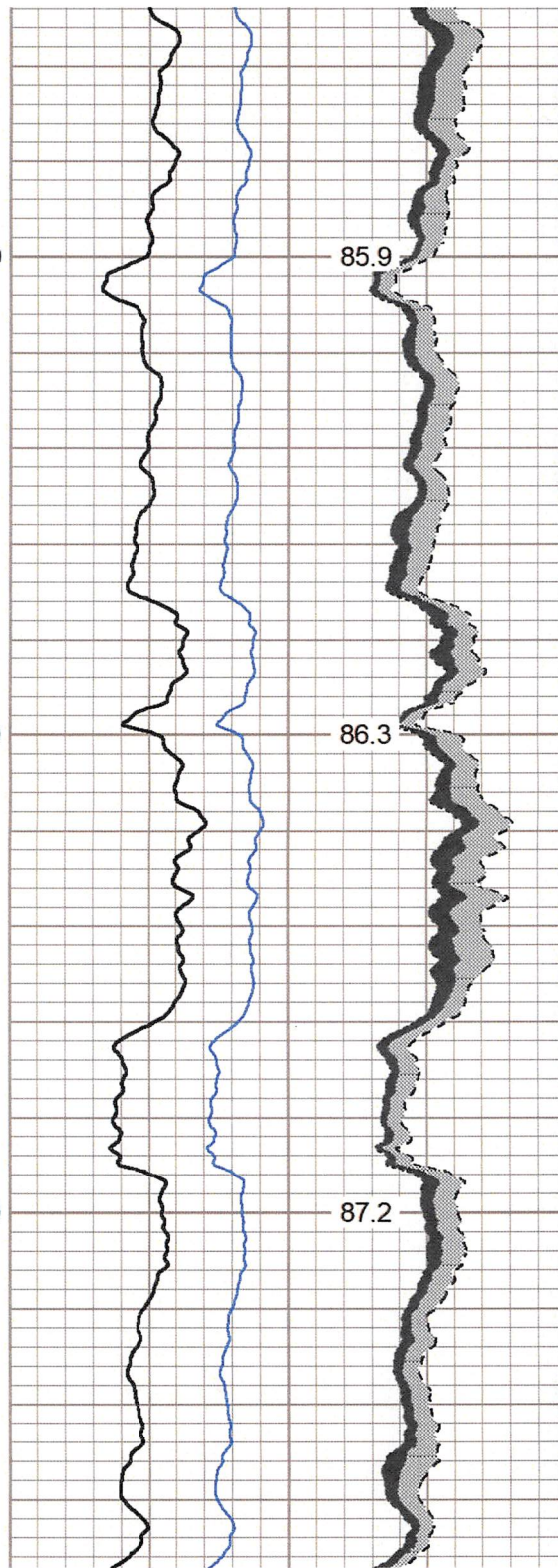
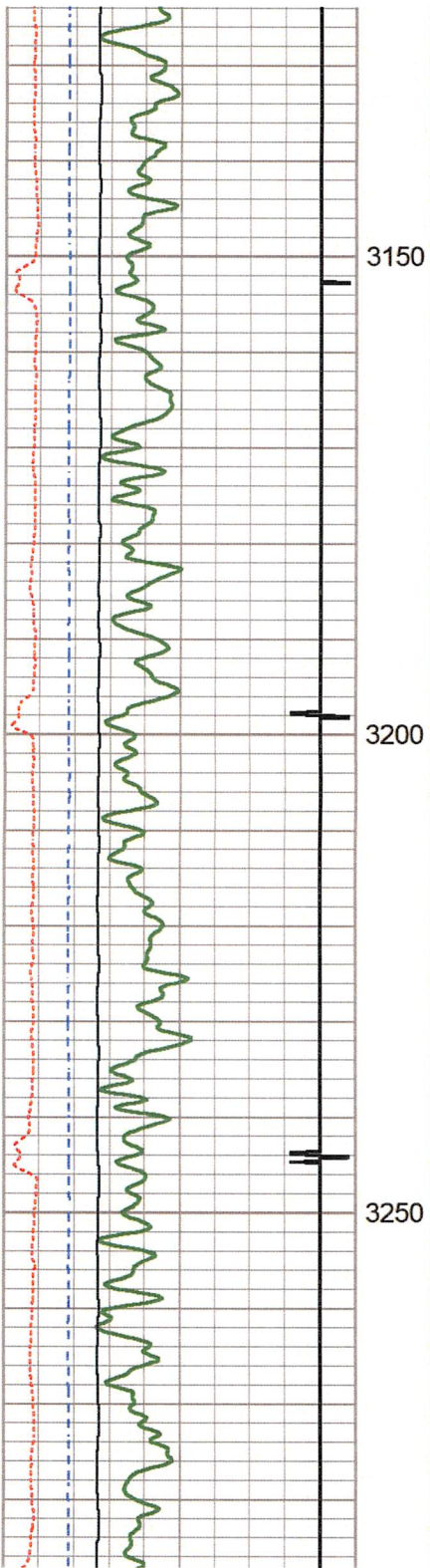


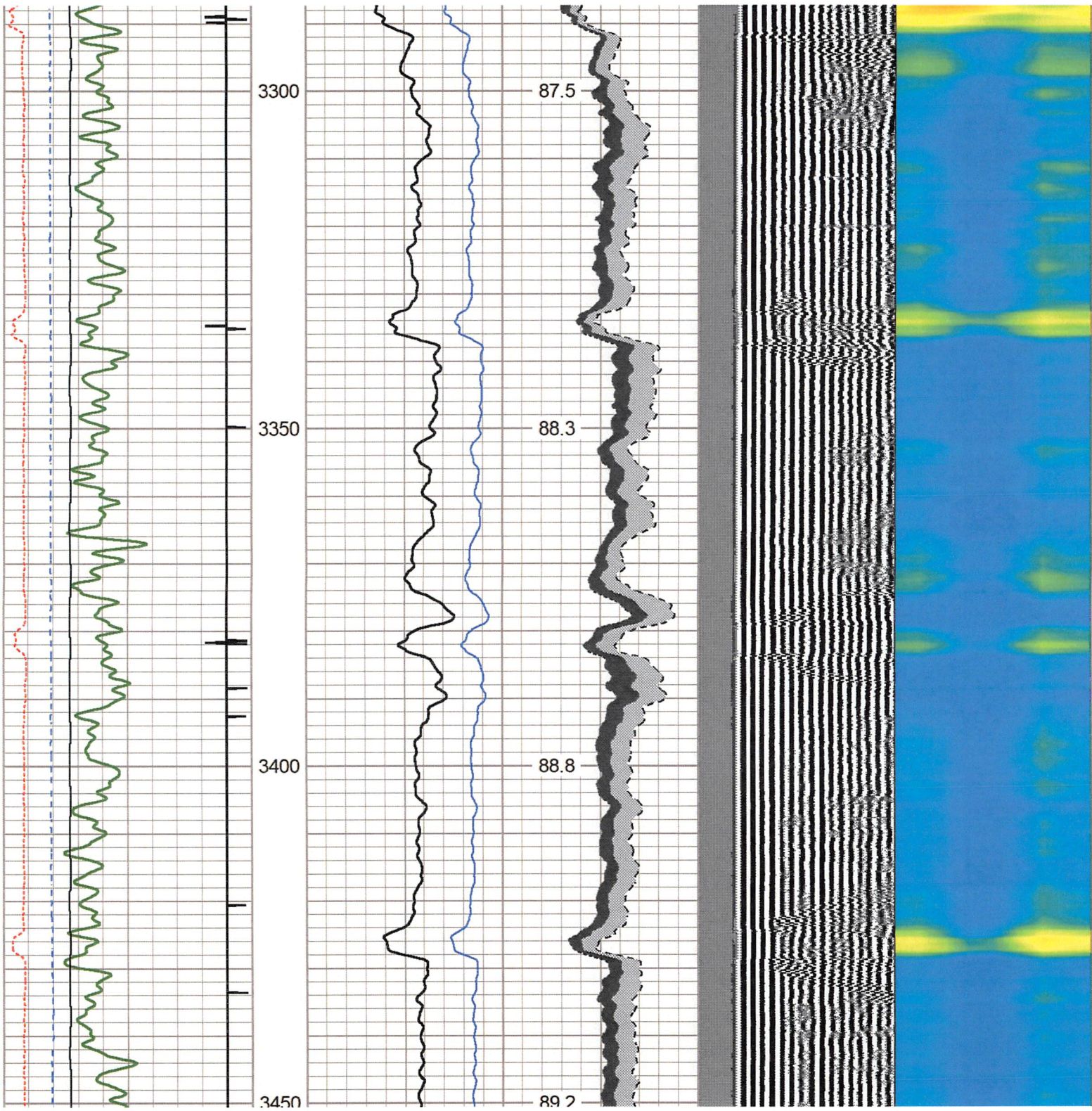


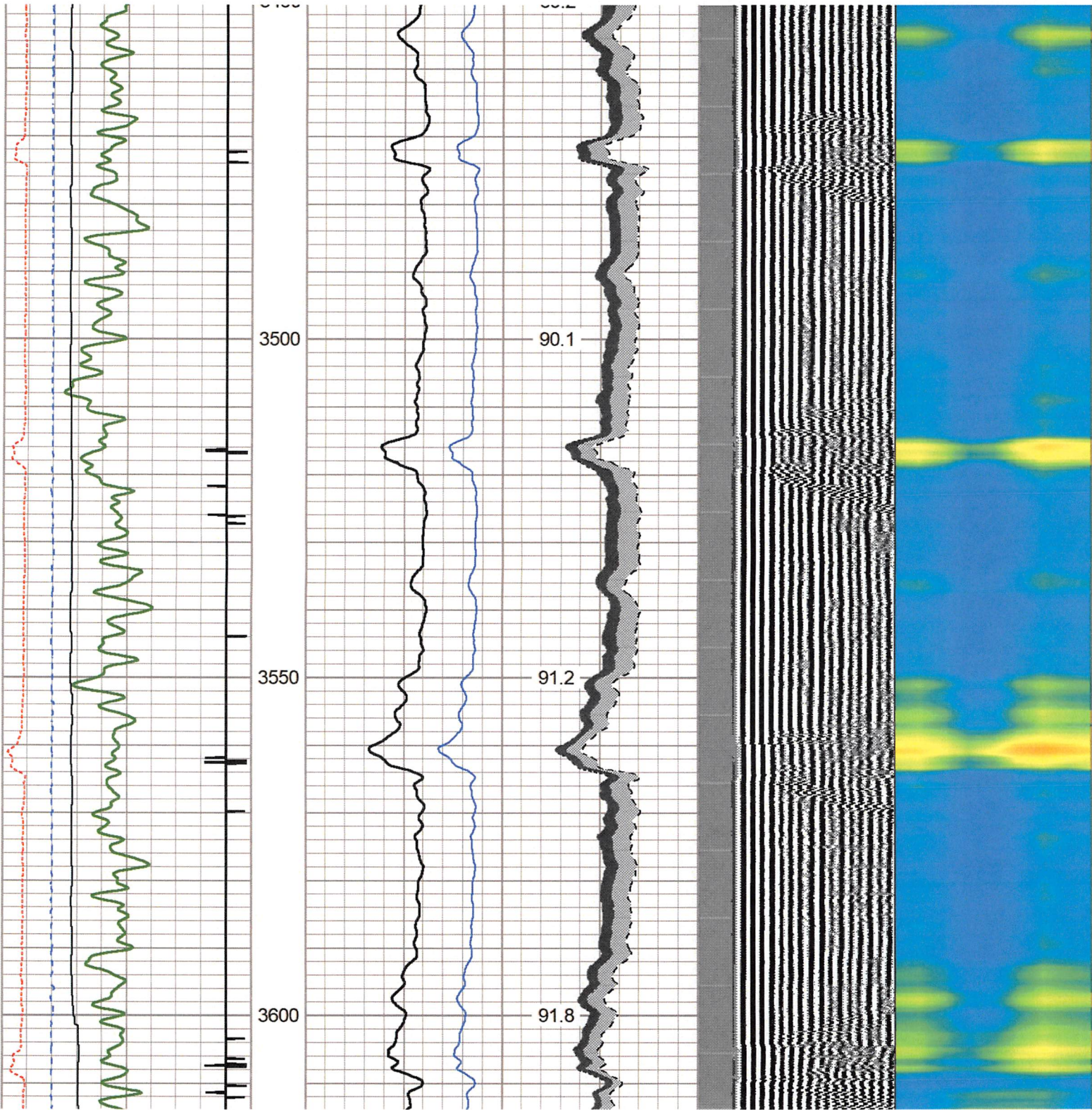


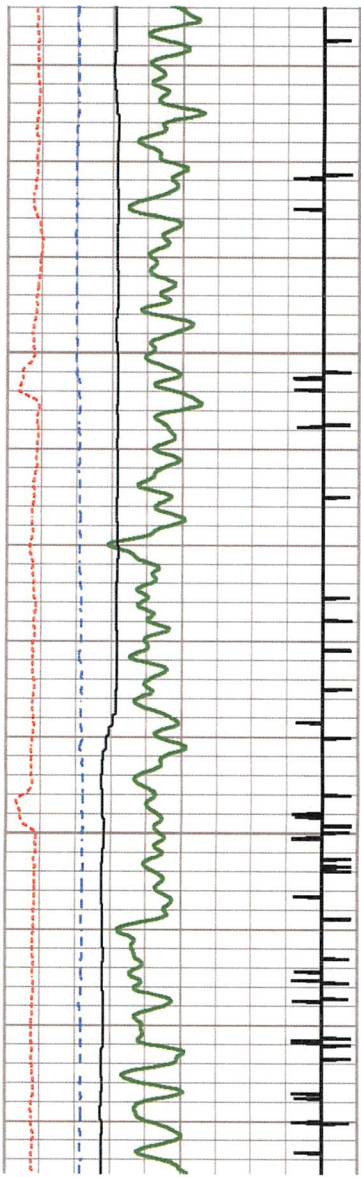






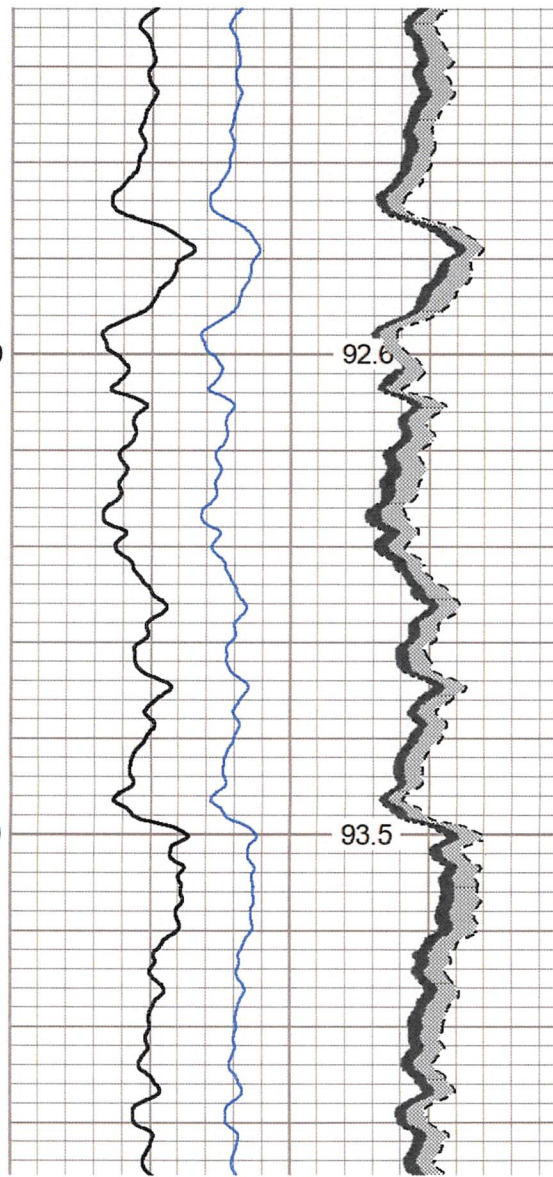






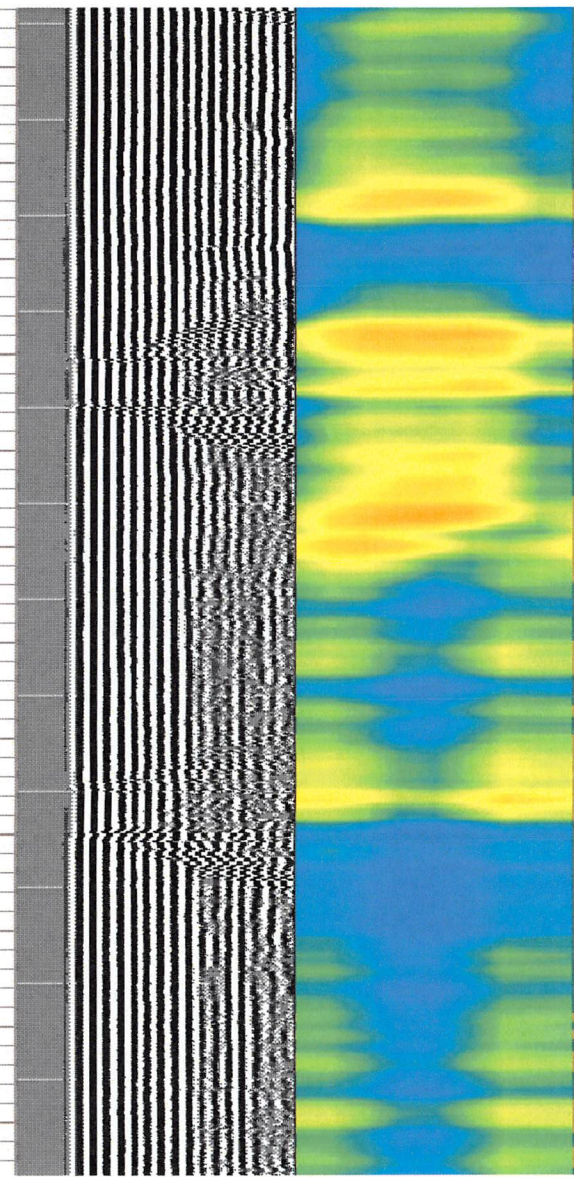
3650

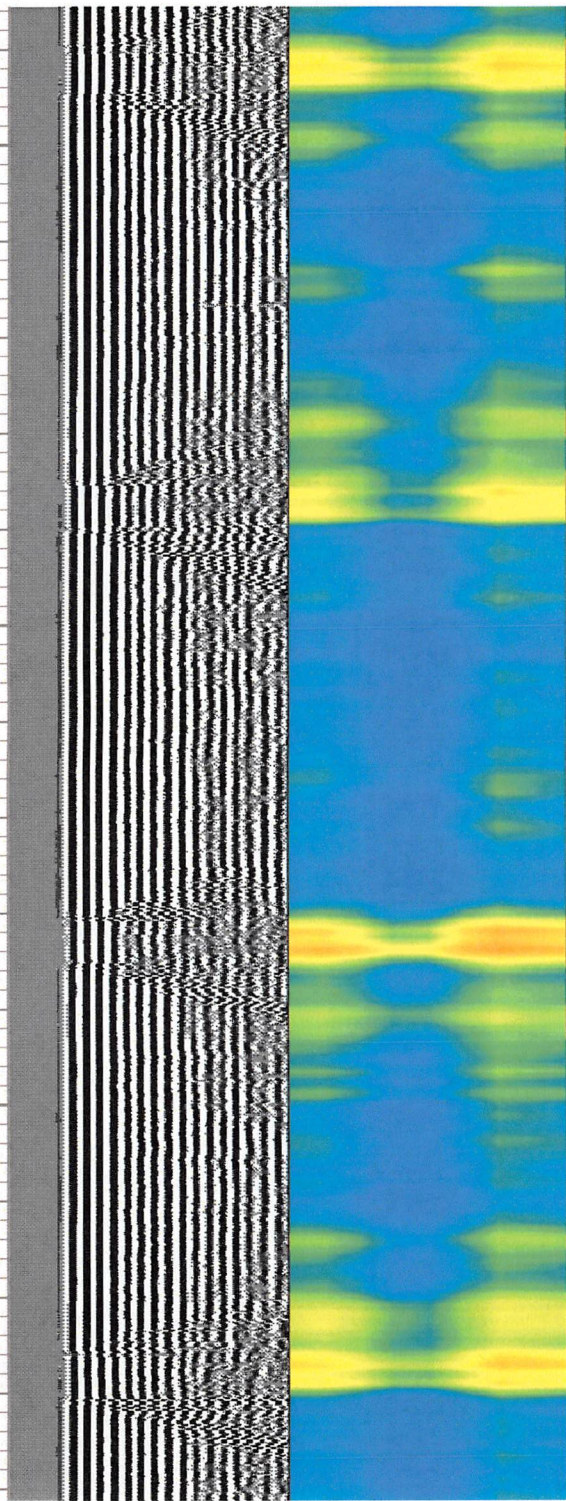
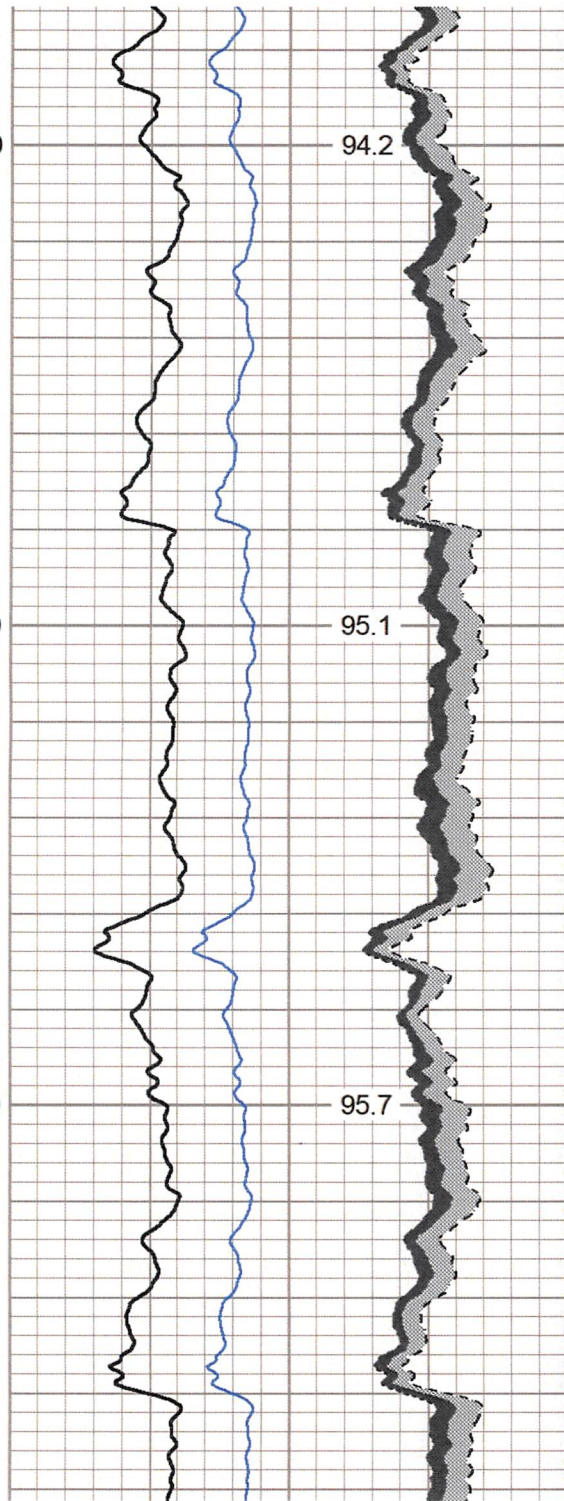
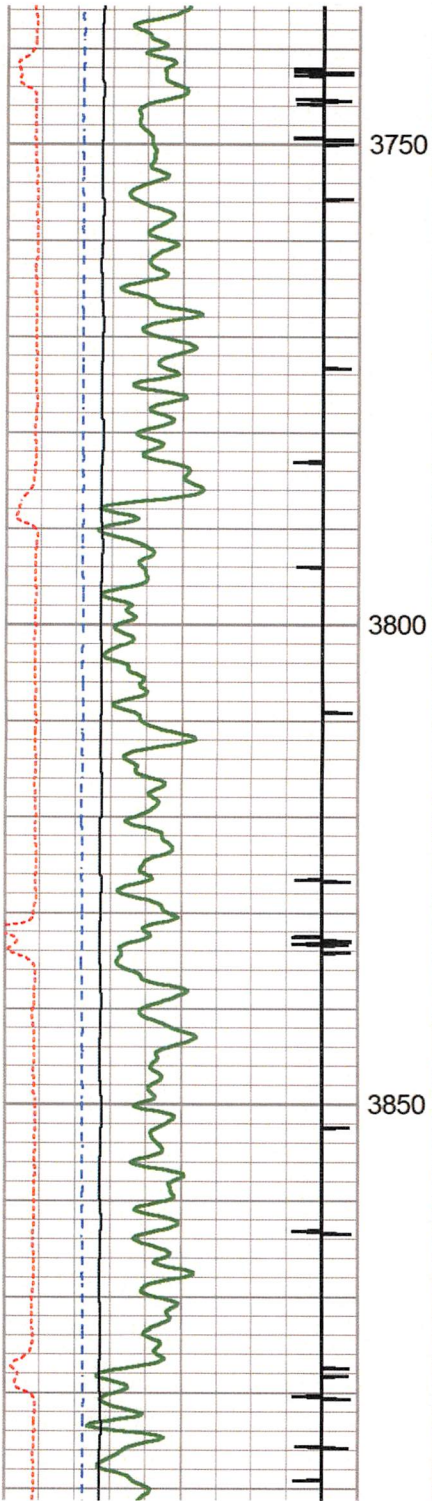
3700

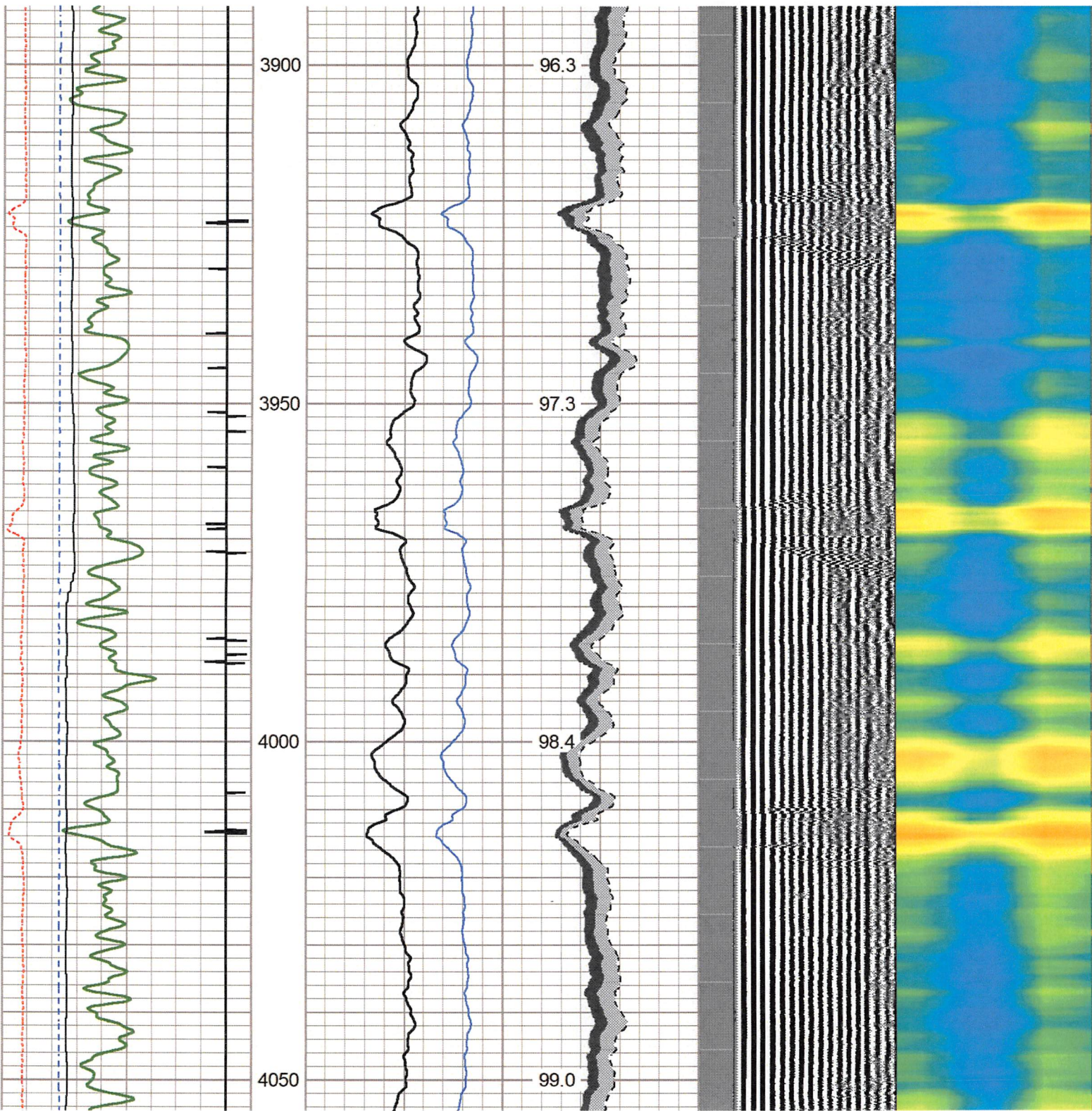


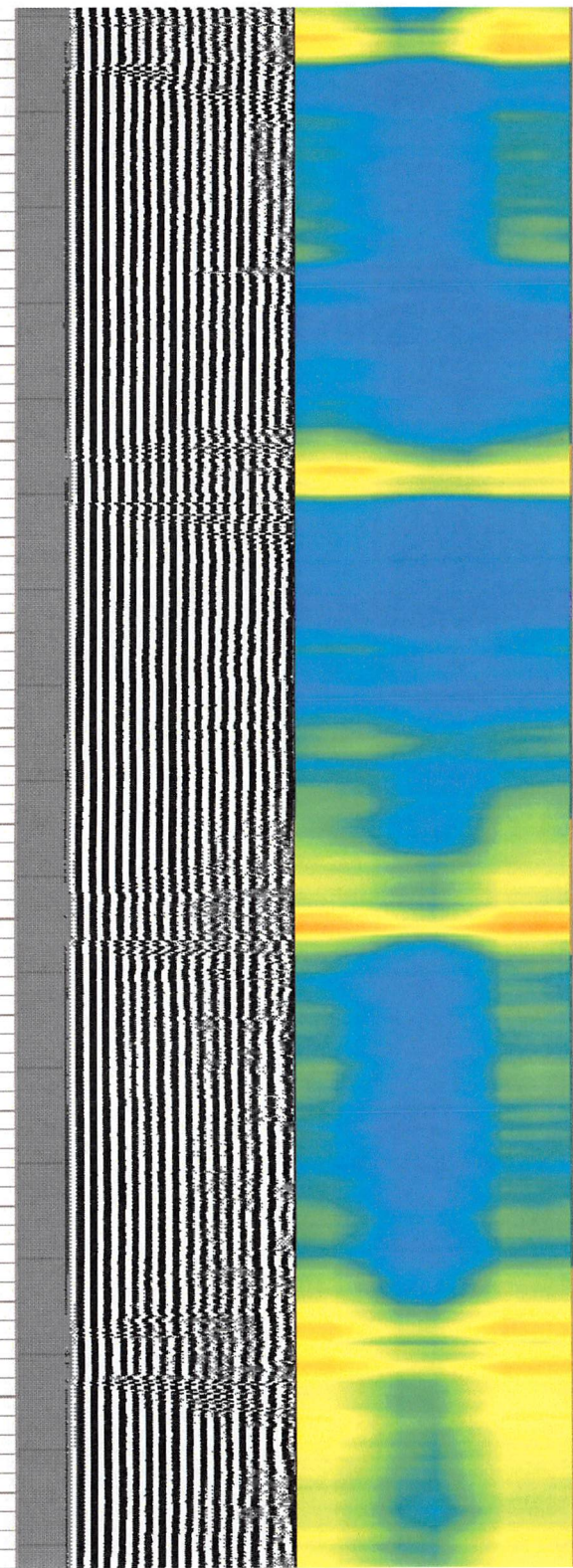
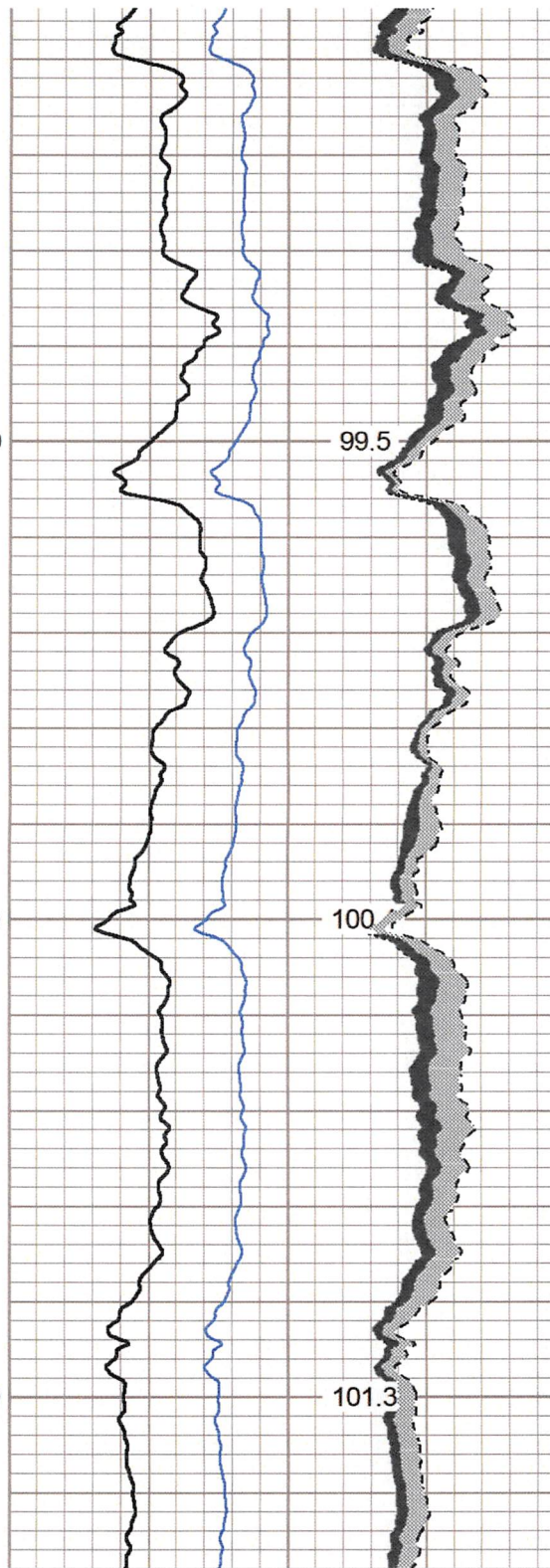
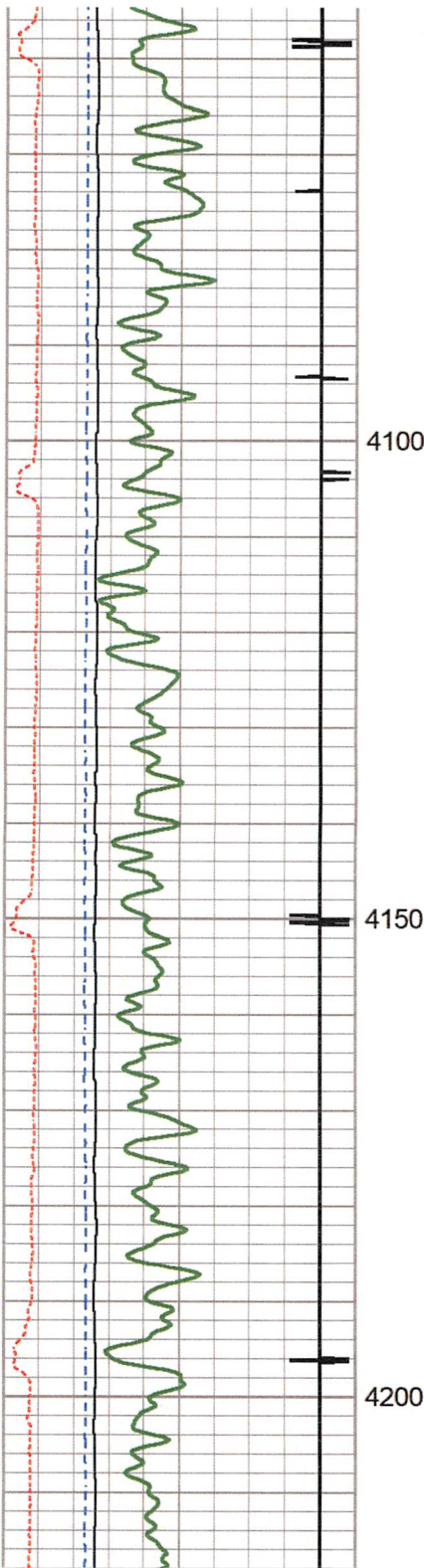
92.6

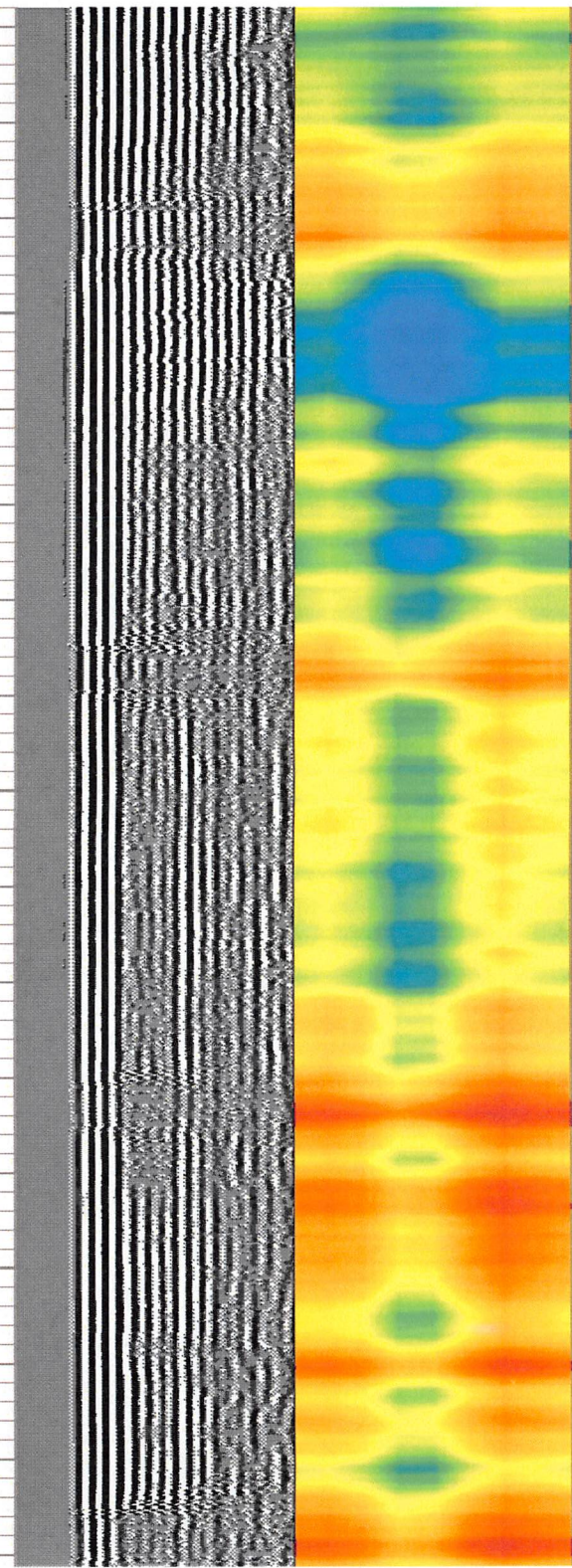
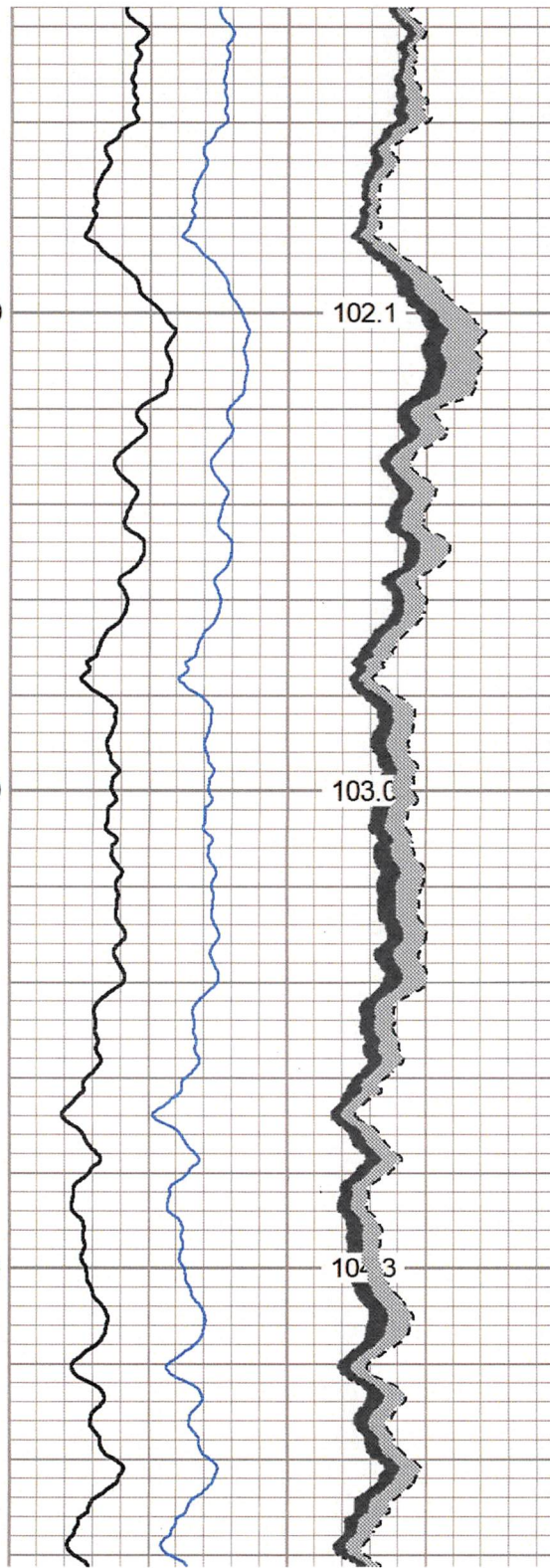
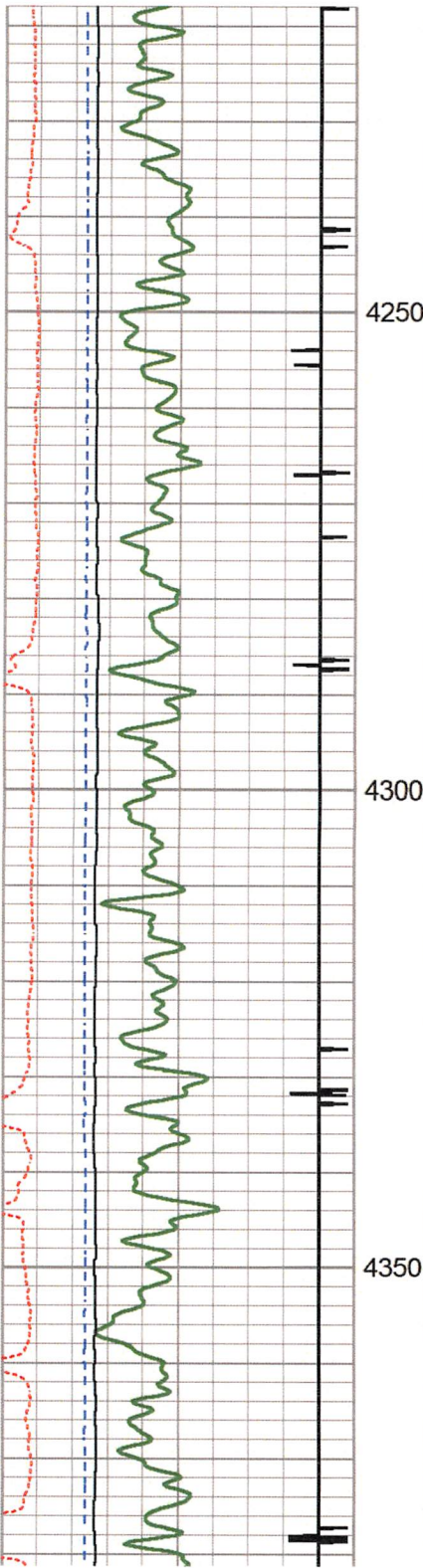
93.5

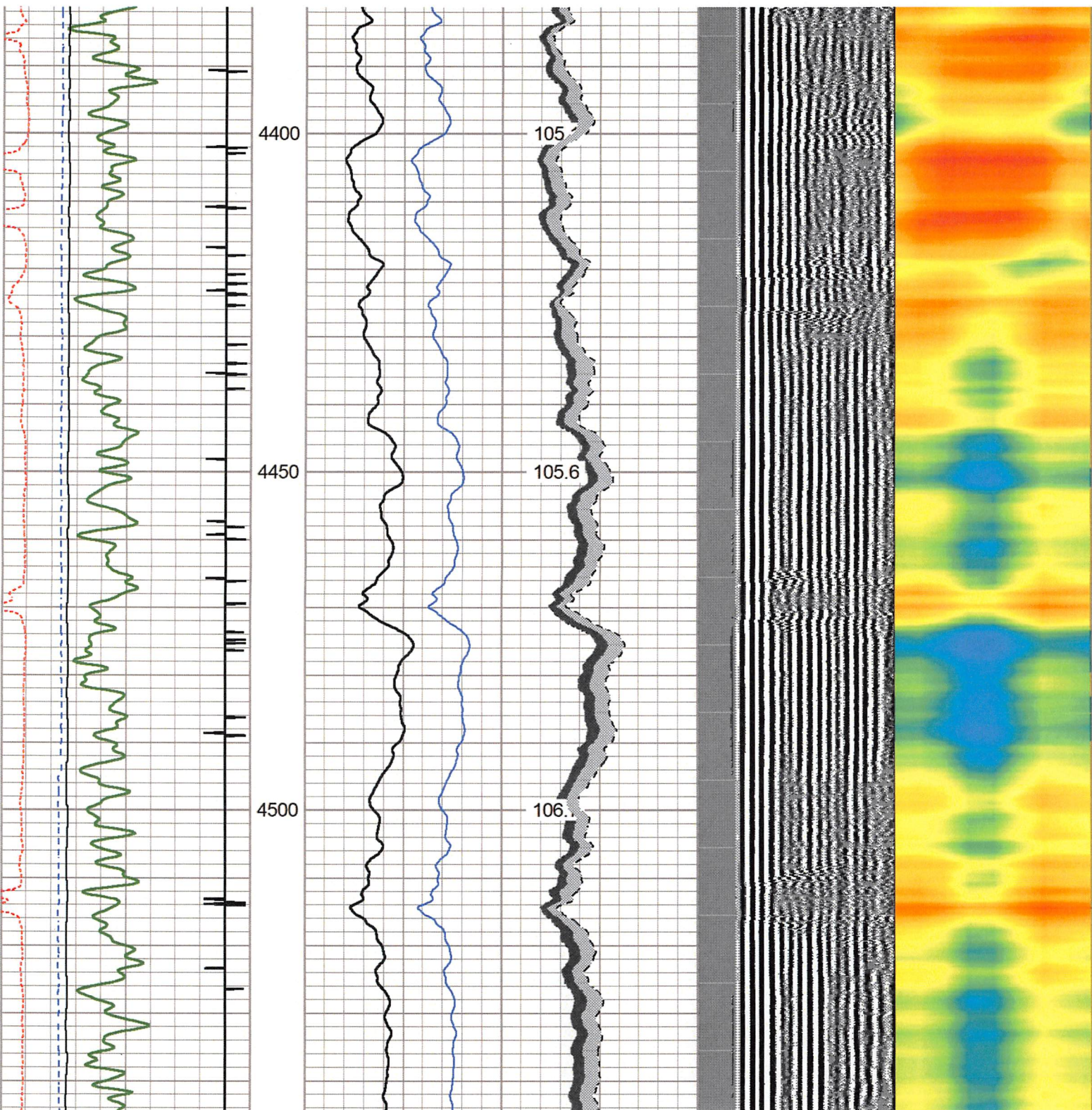


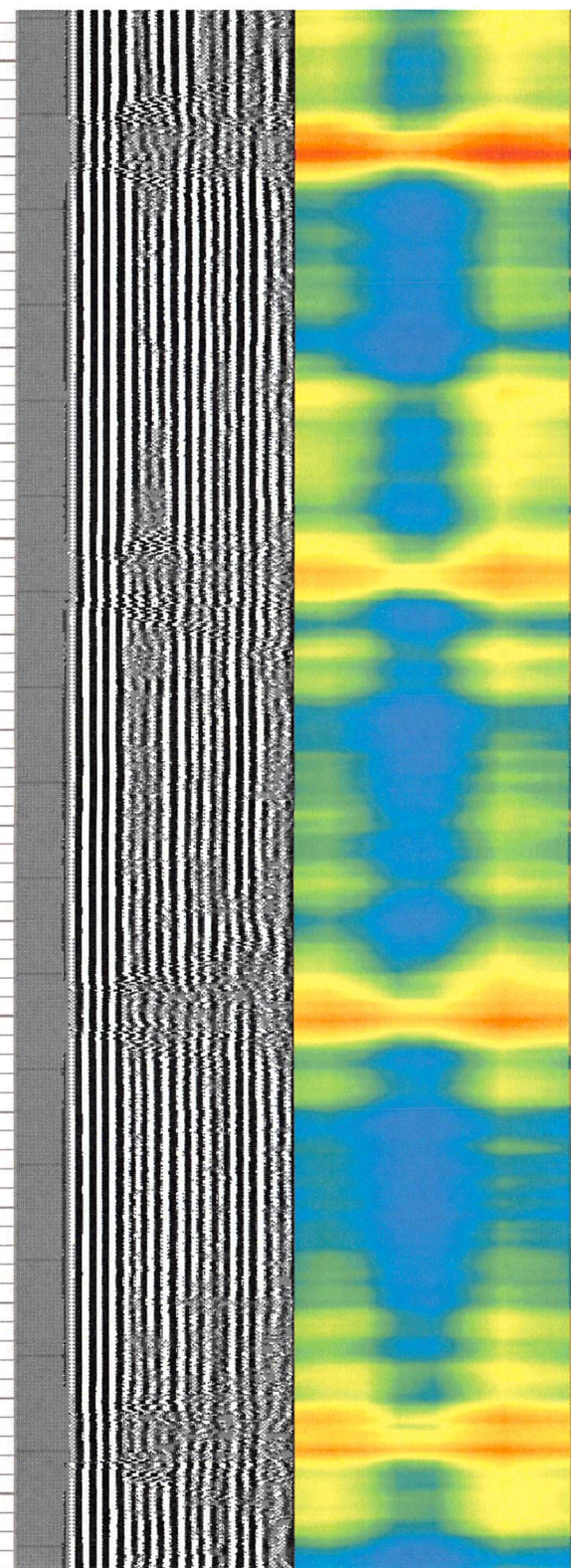
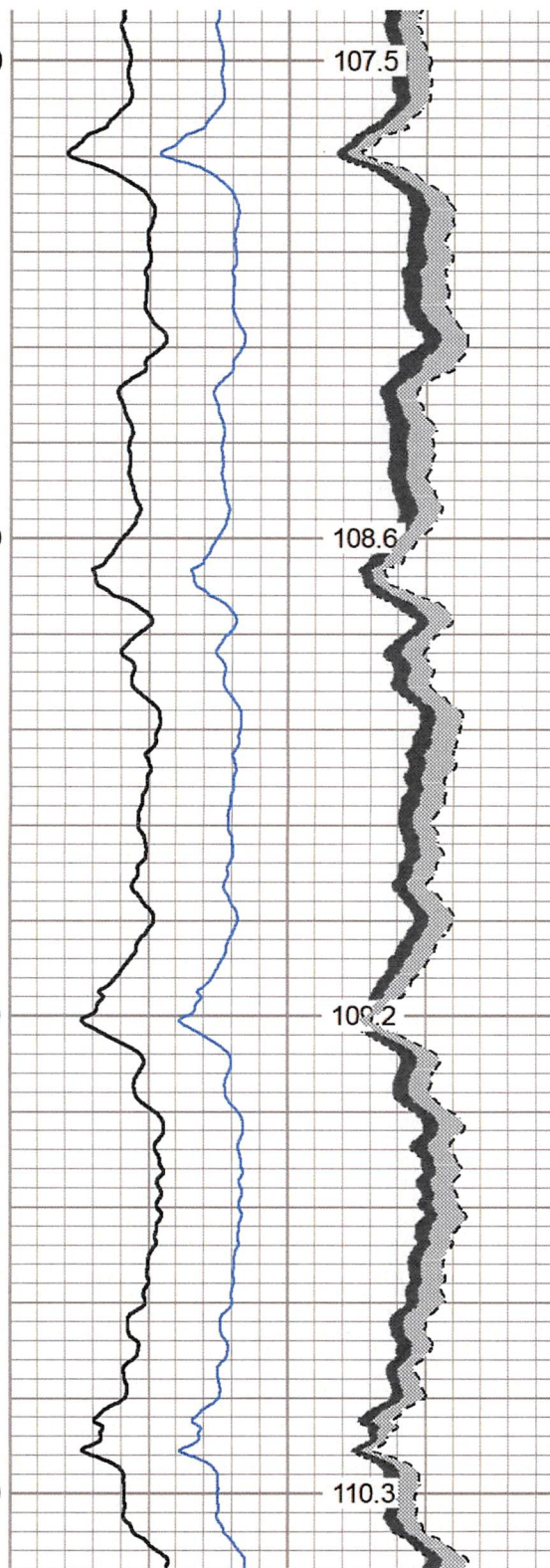
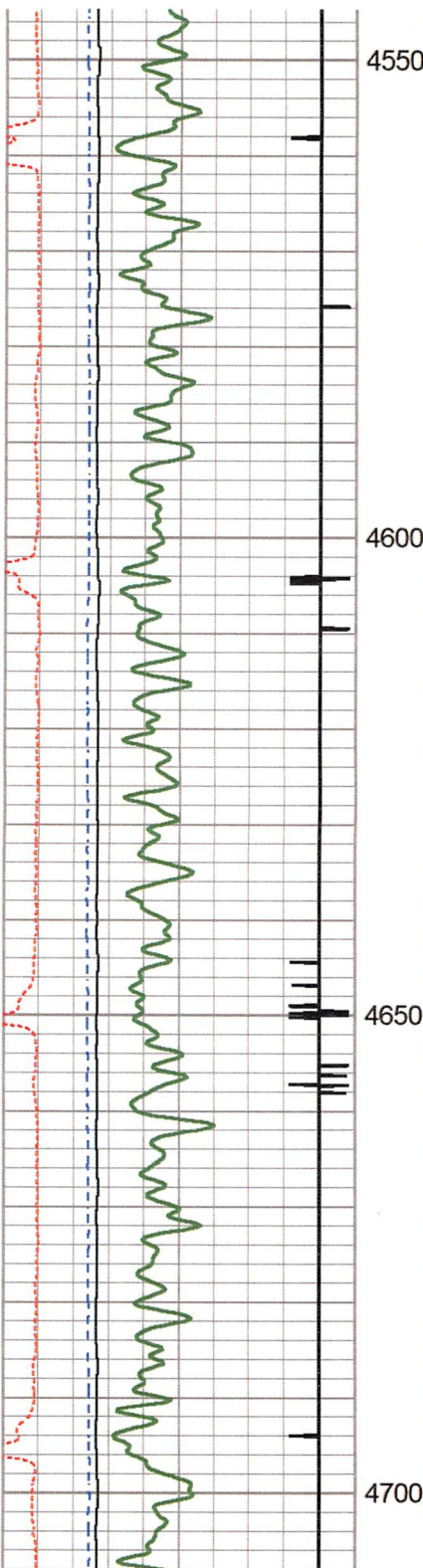


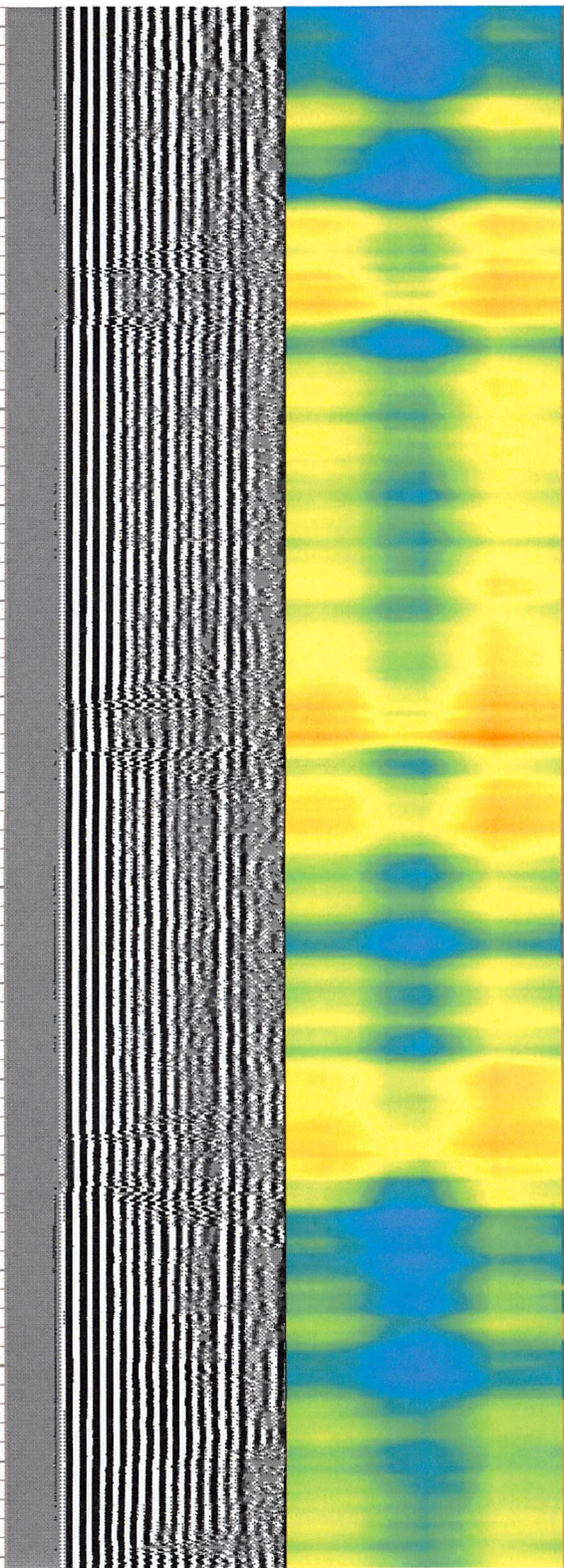
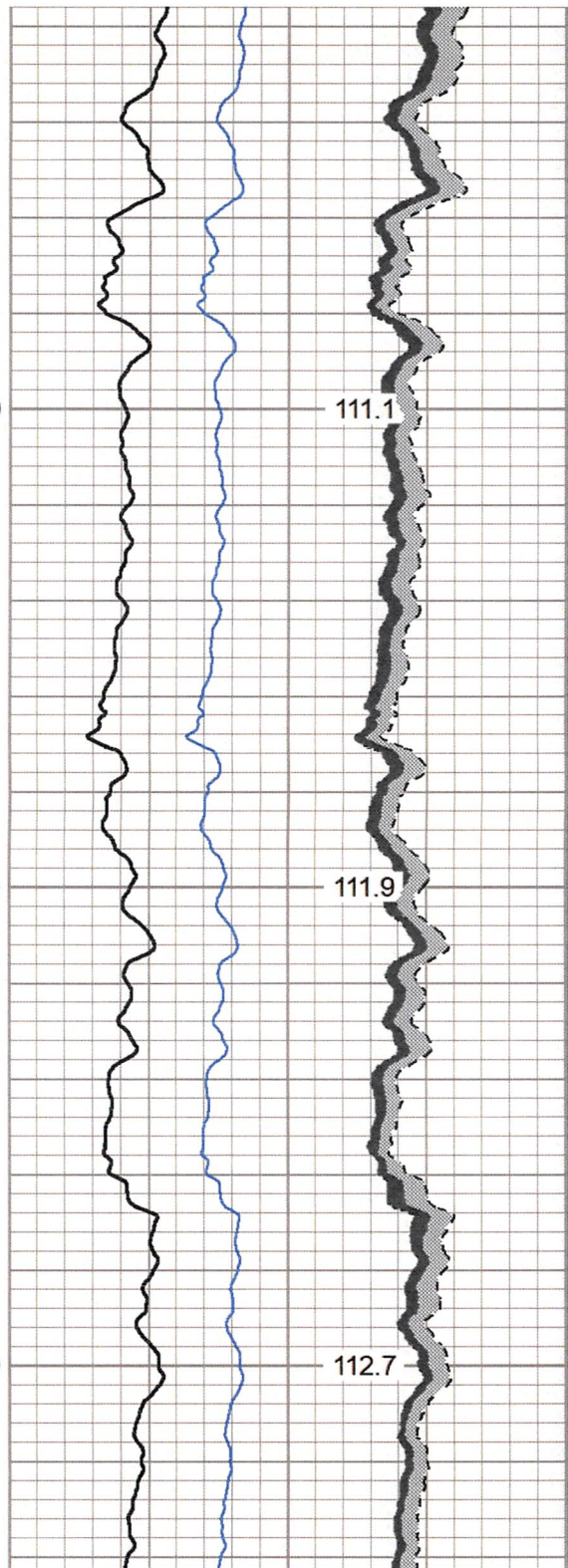
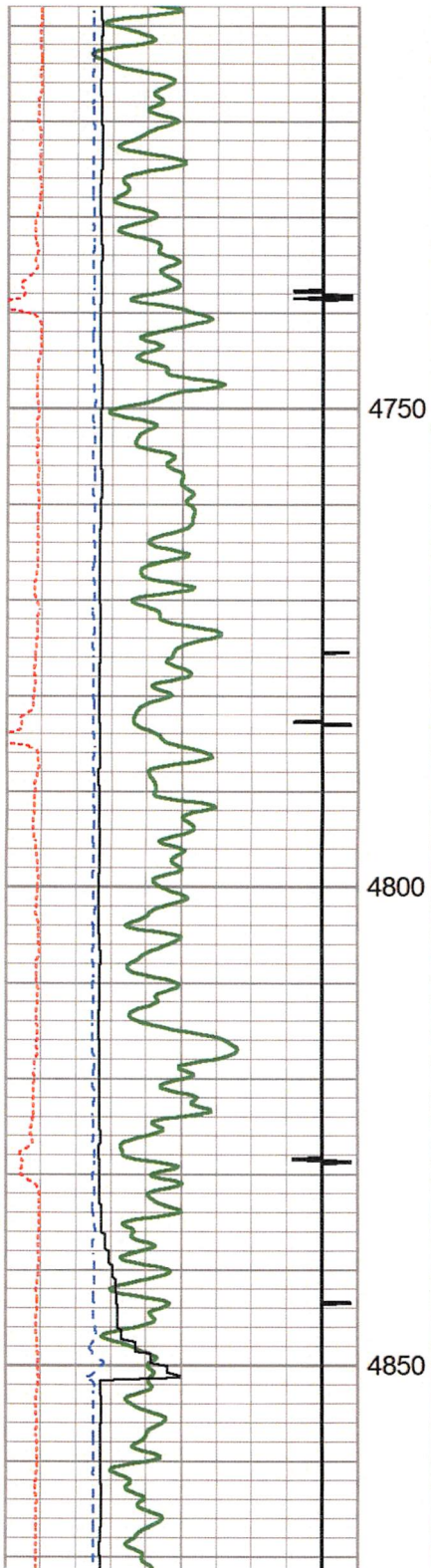


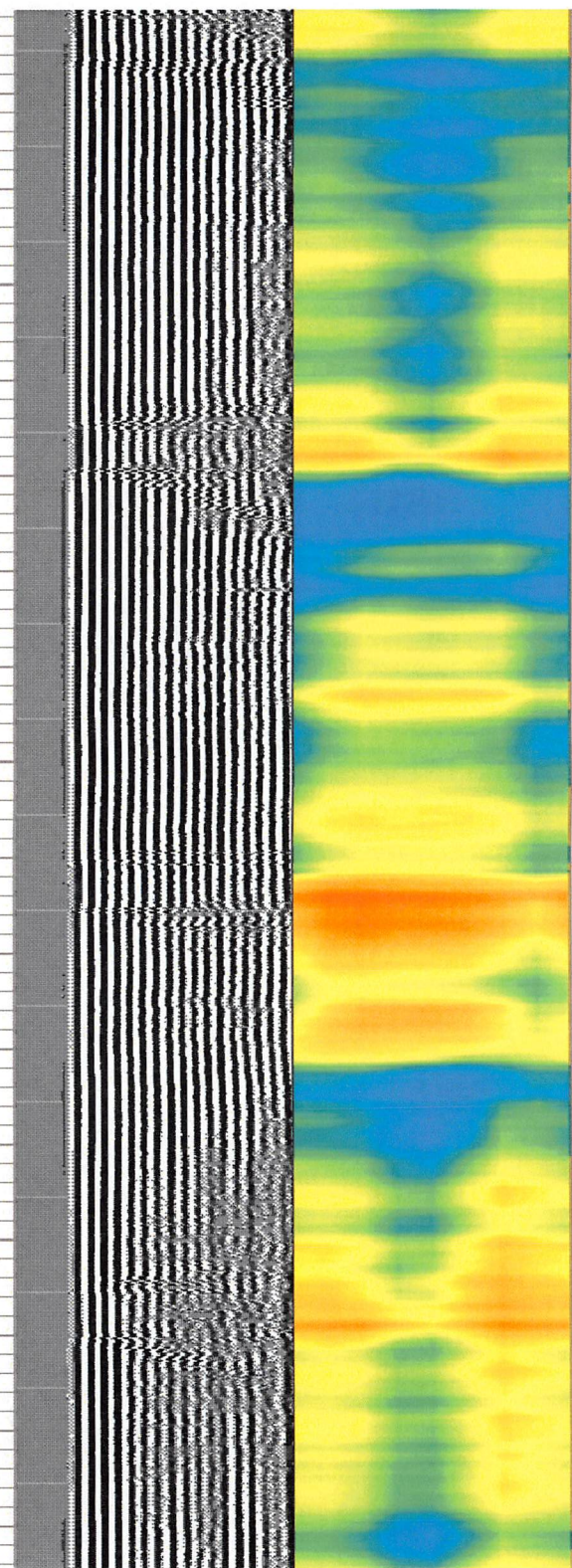
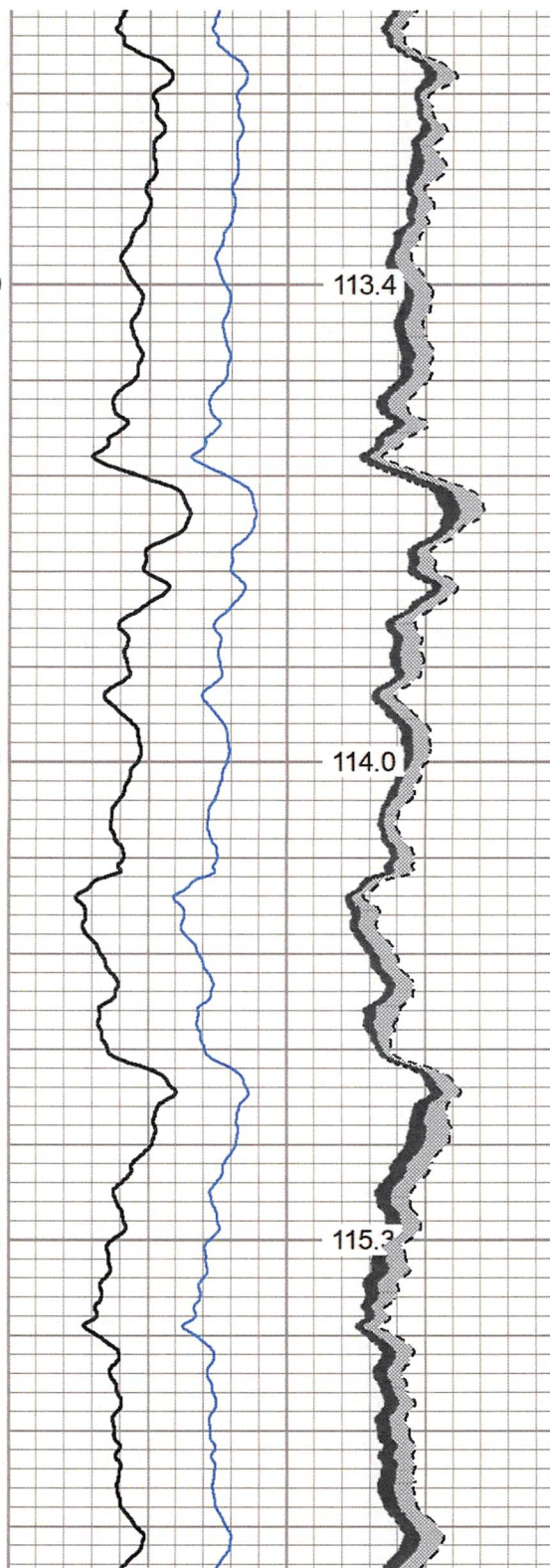
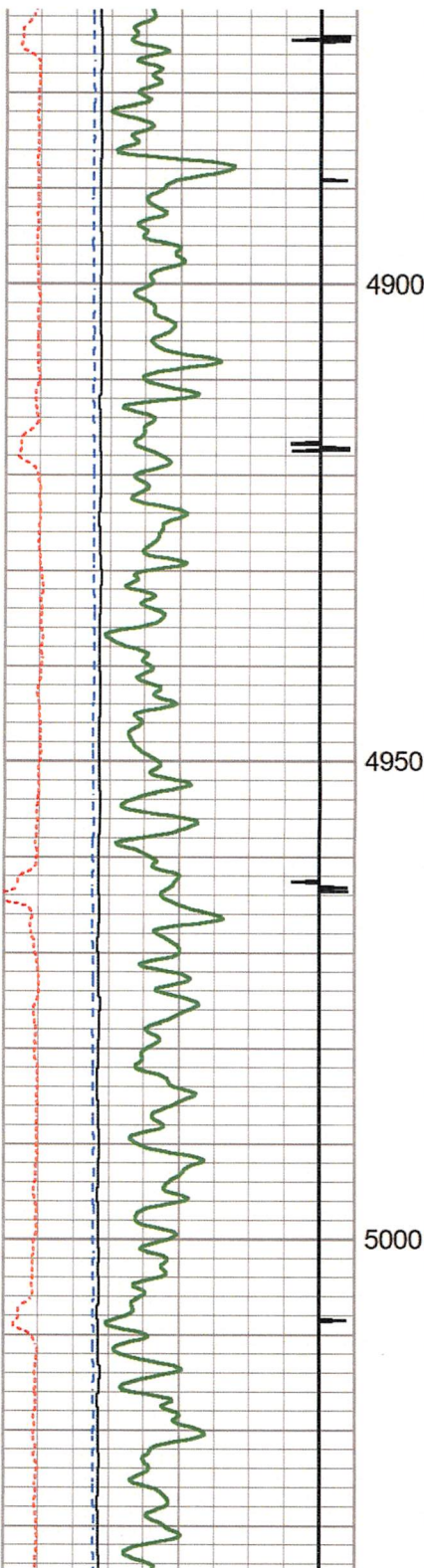


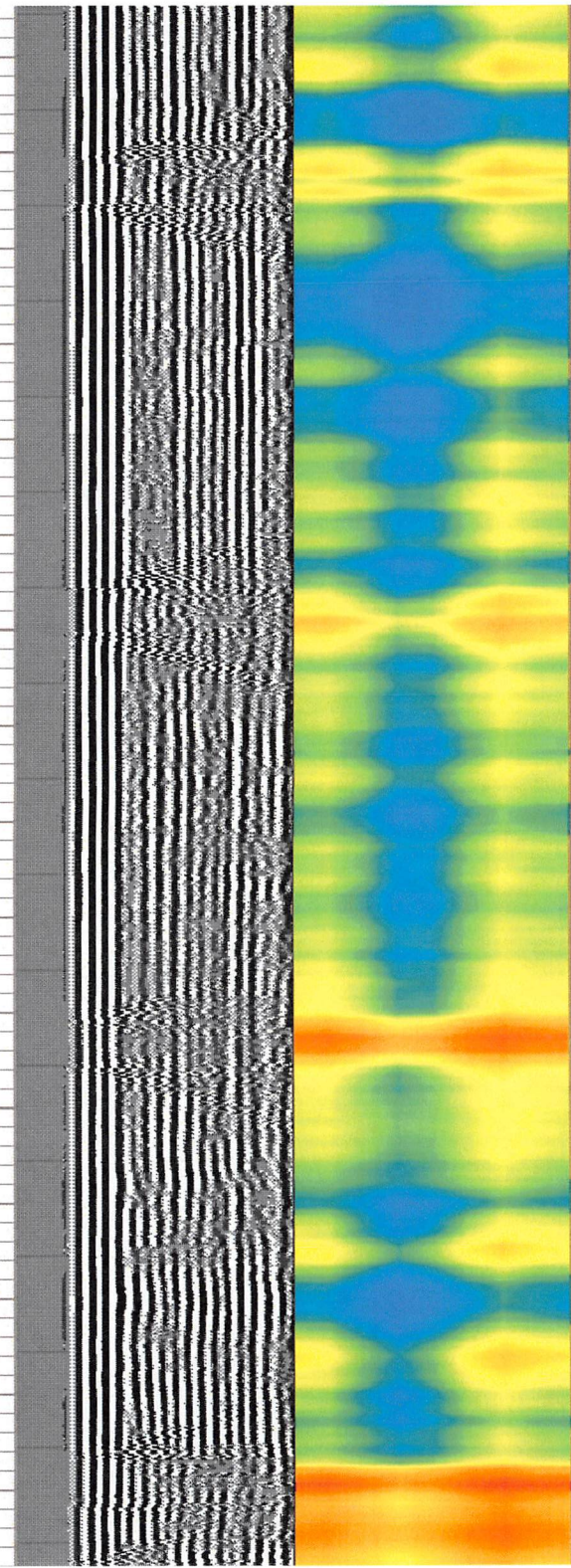
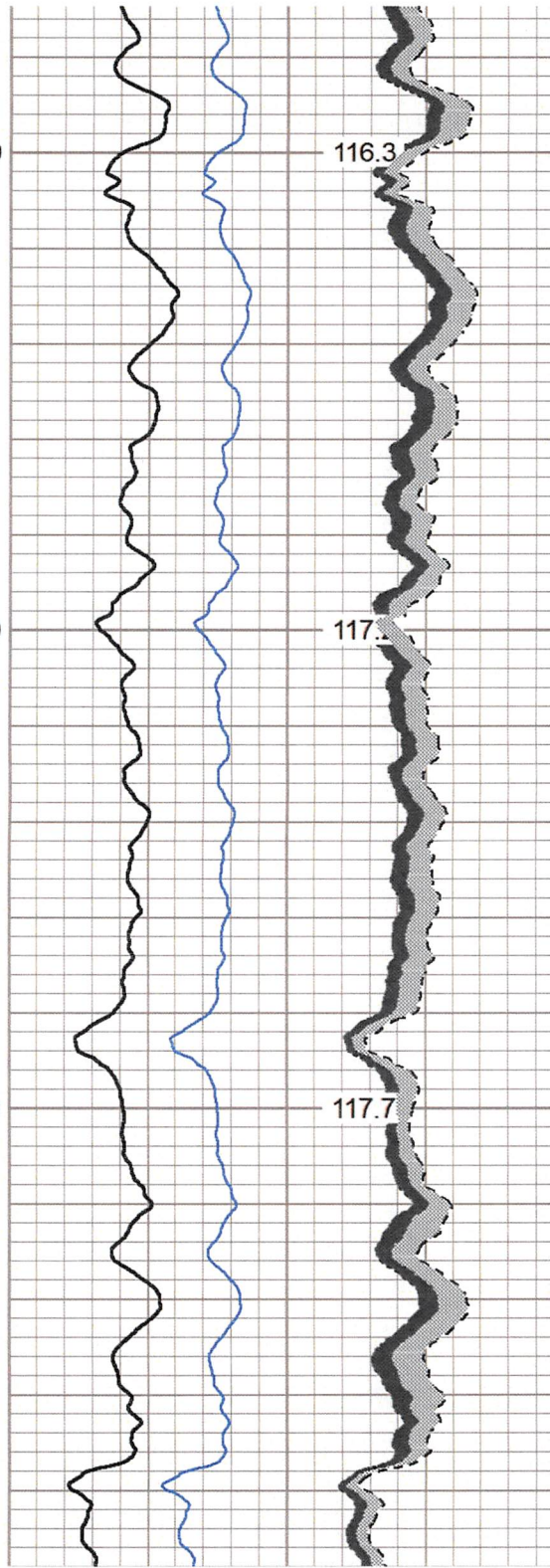
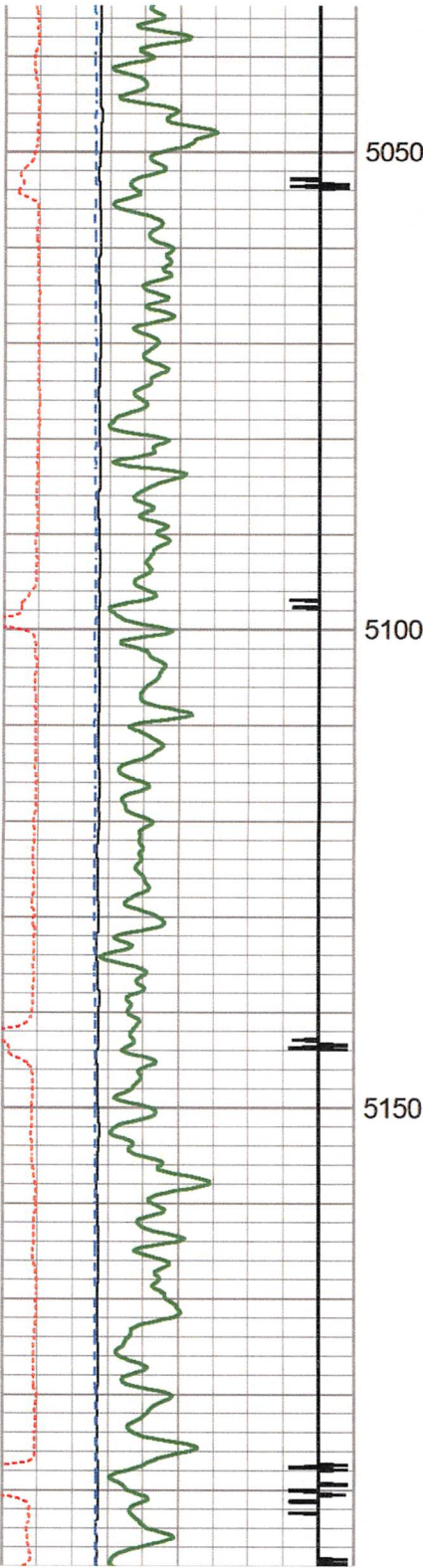


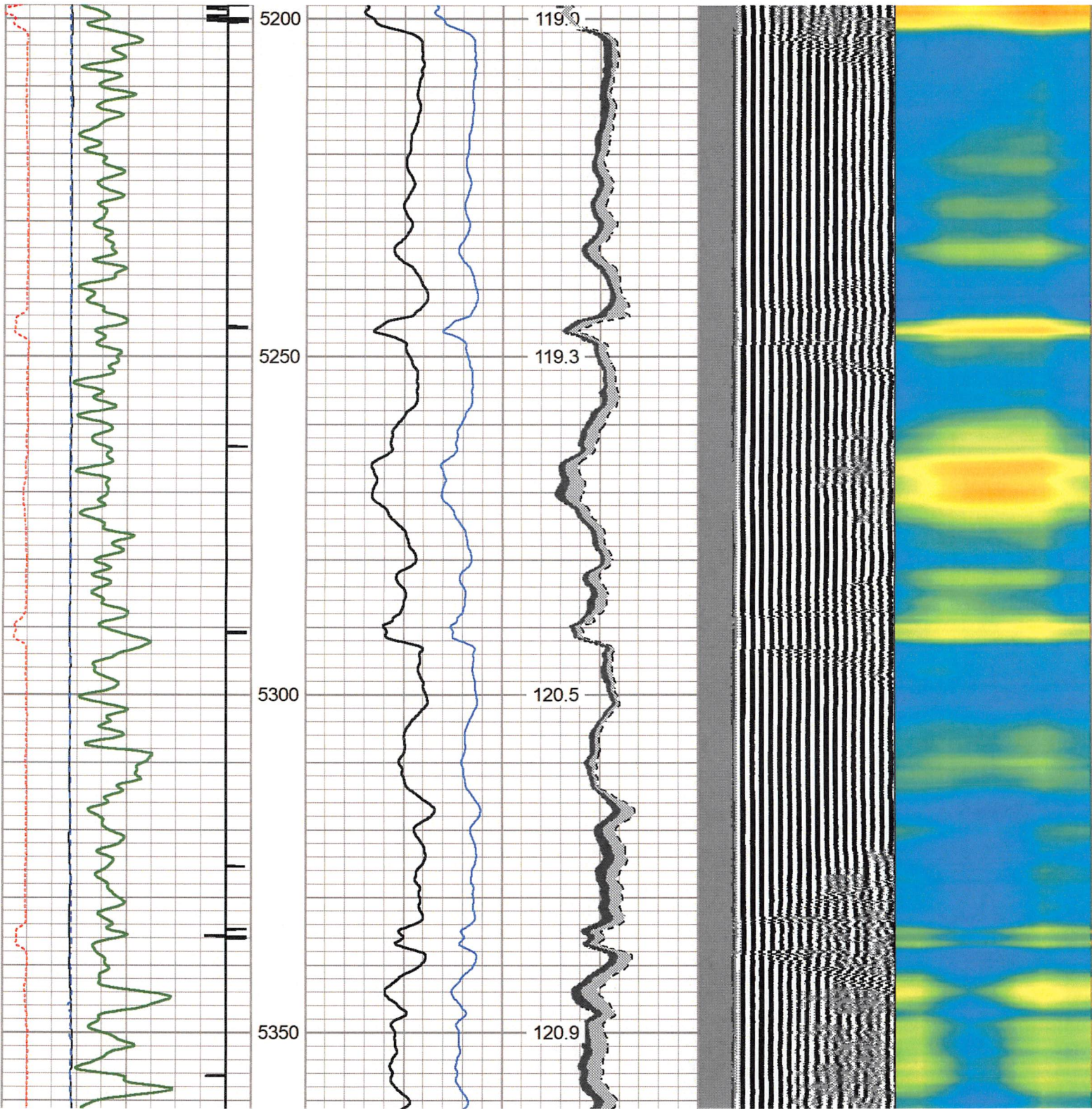


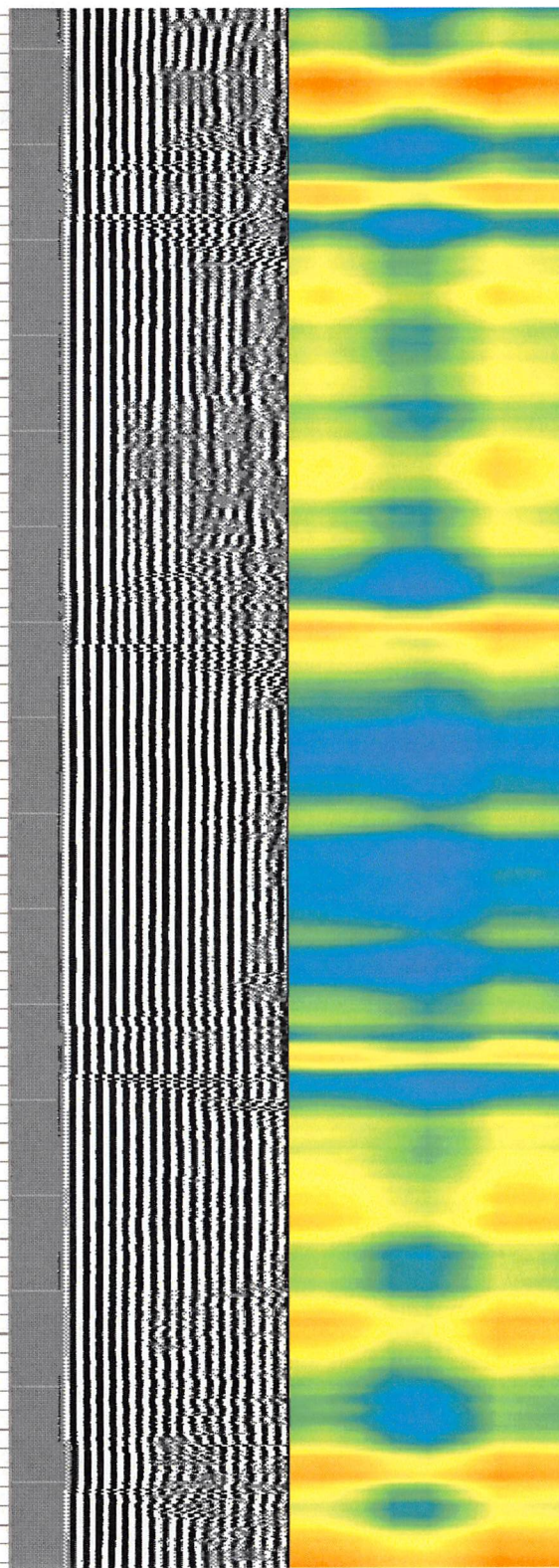
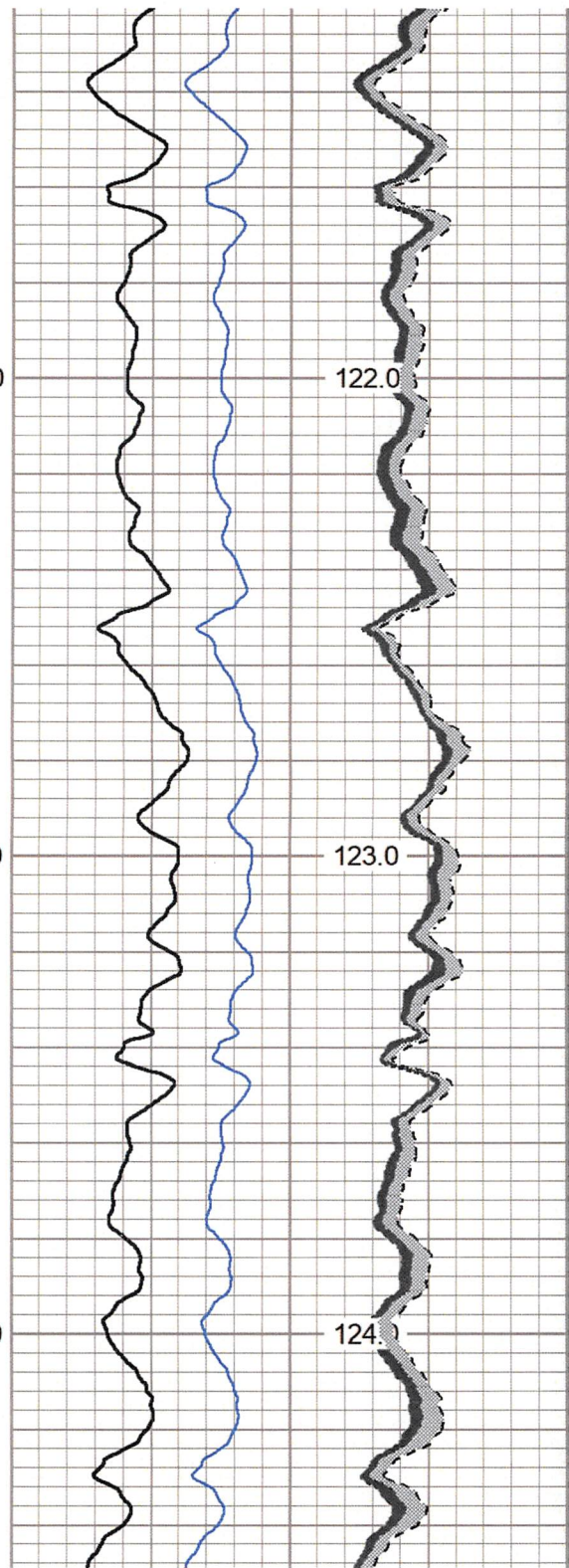
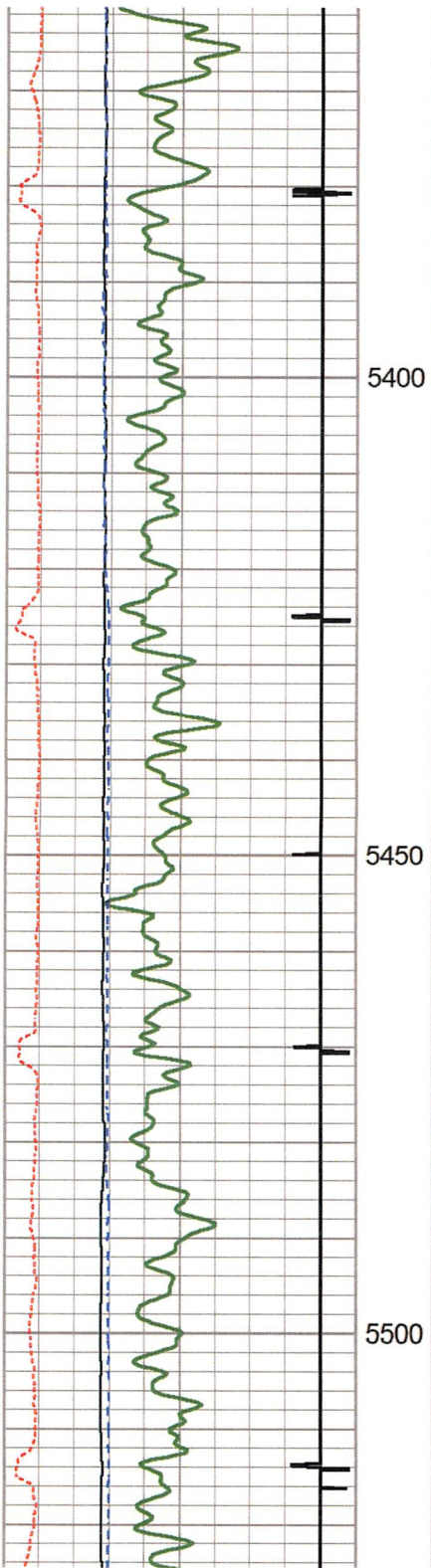


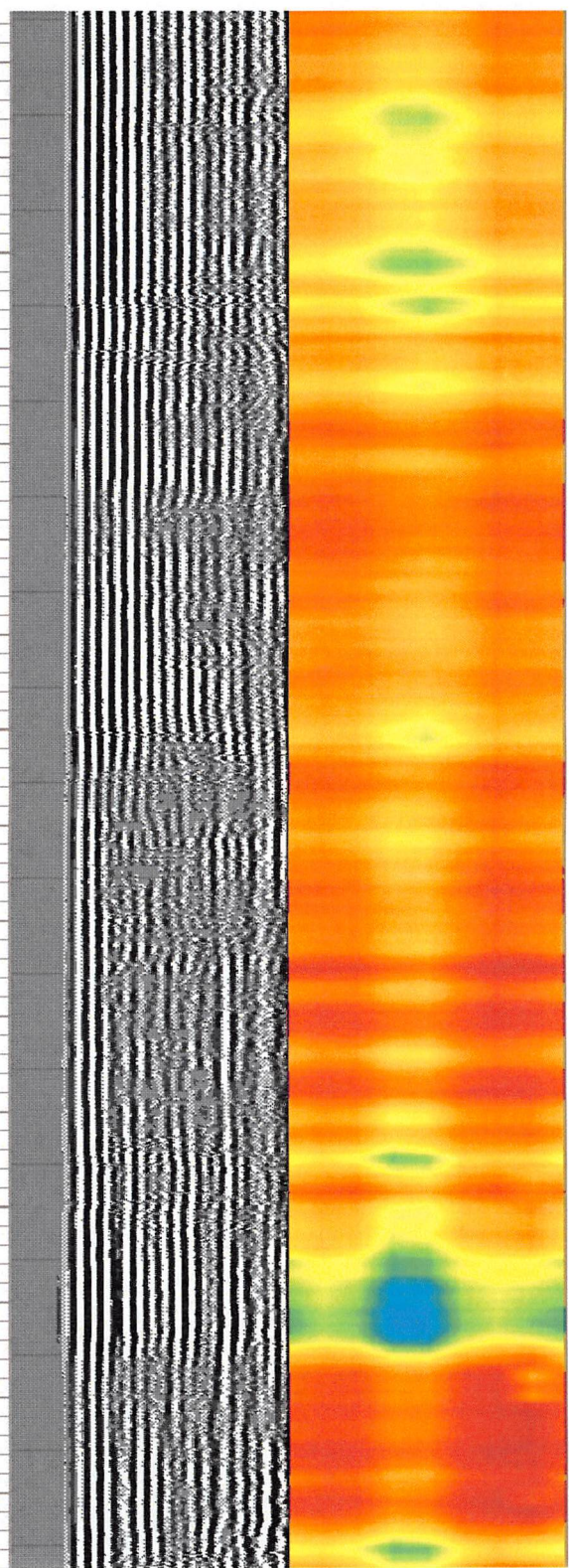
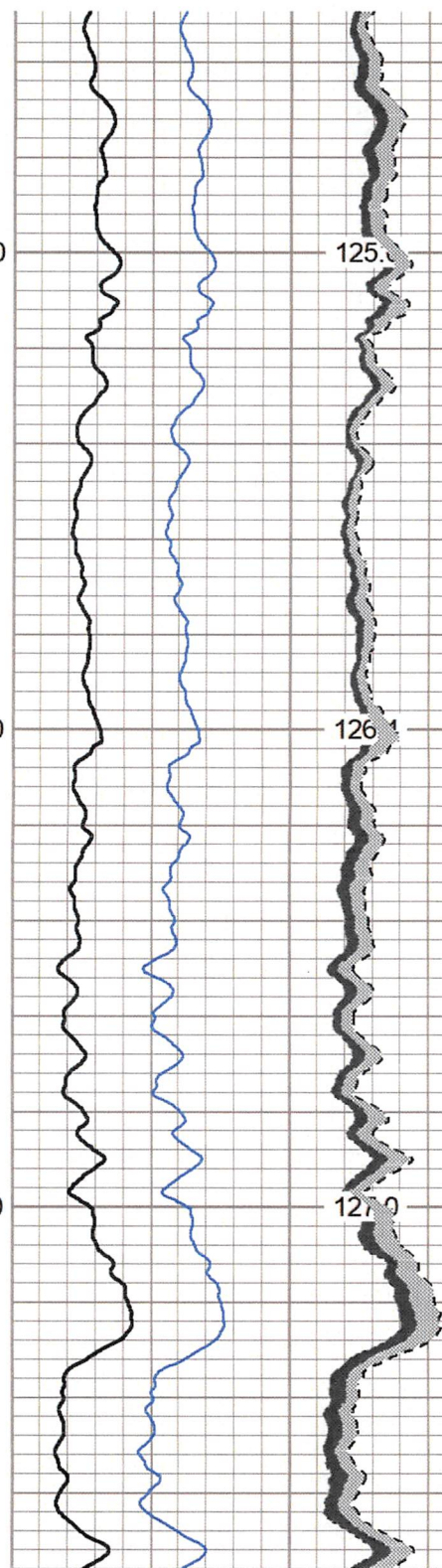
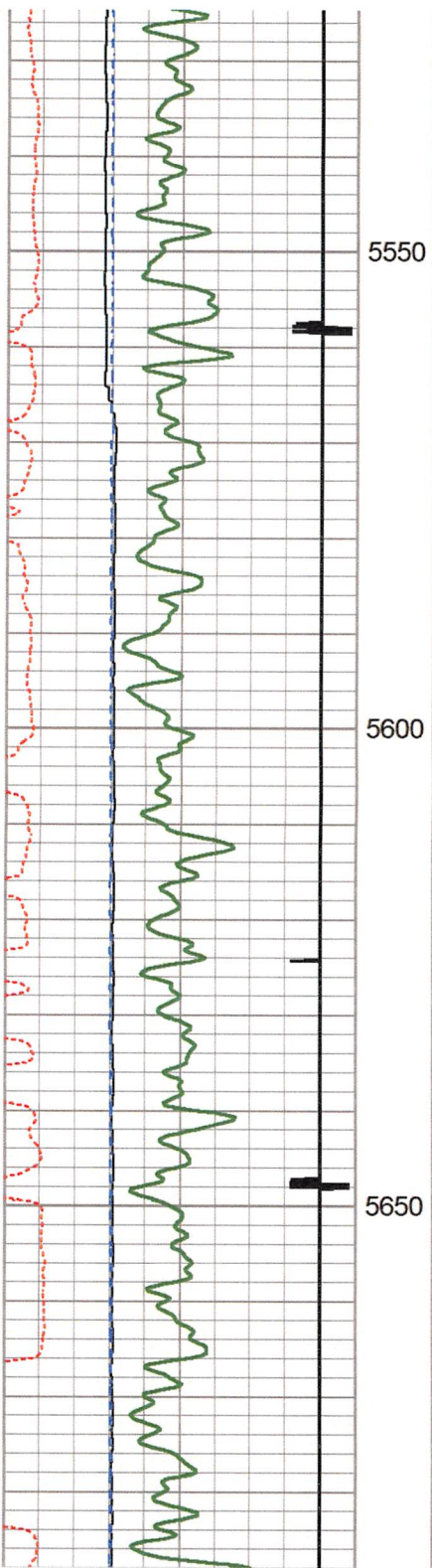


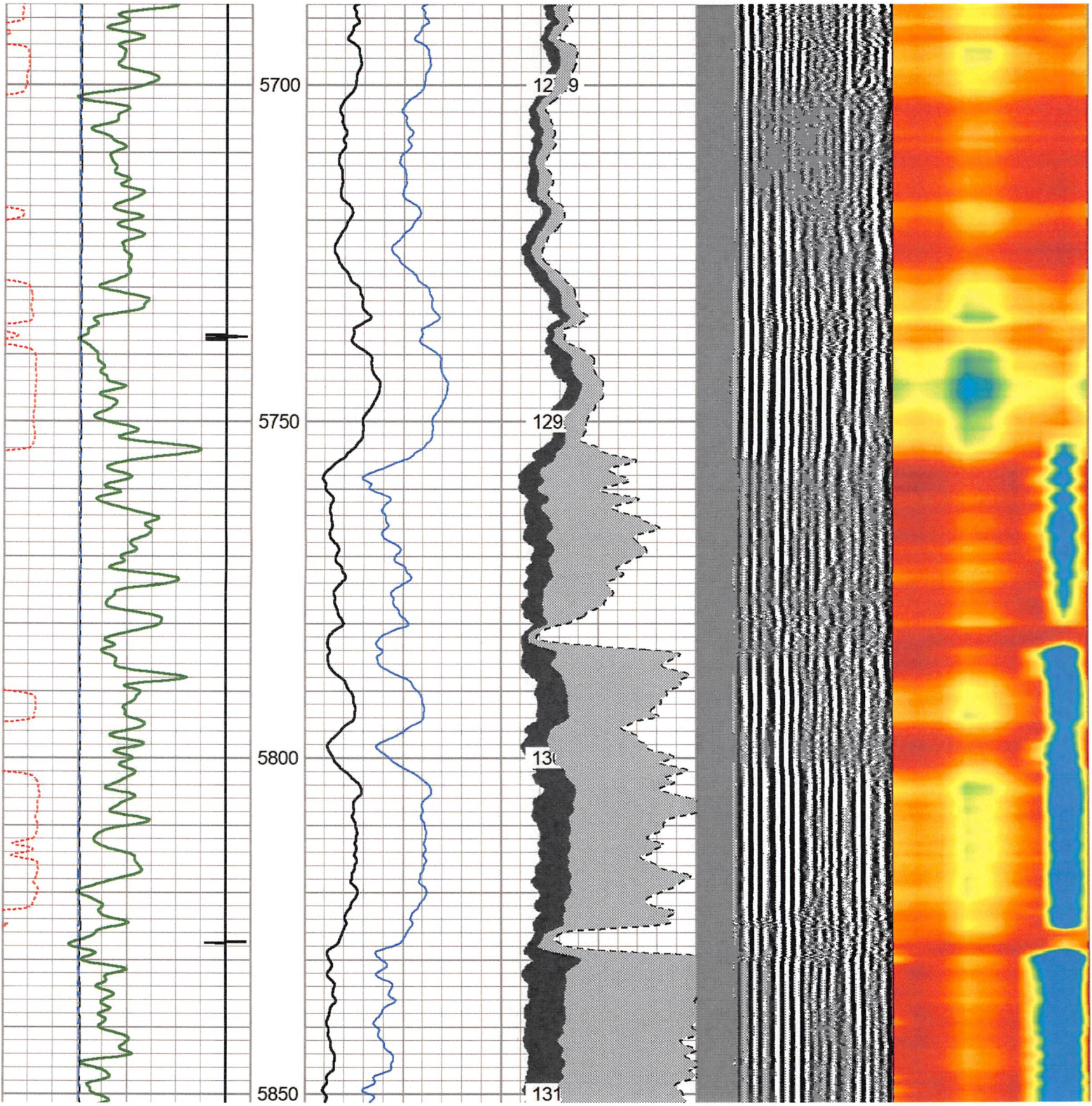


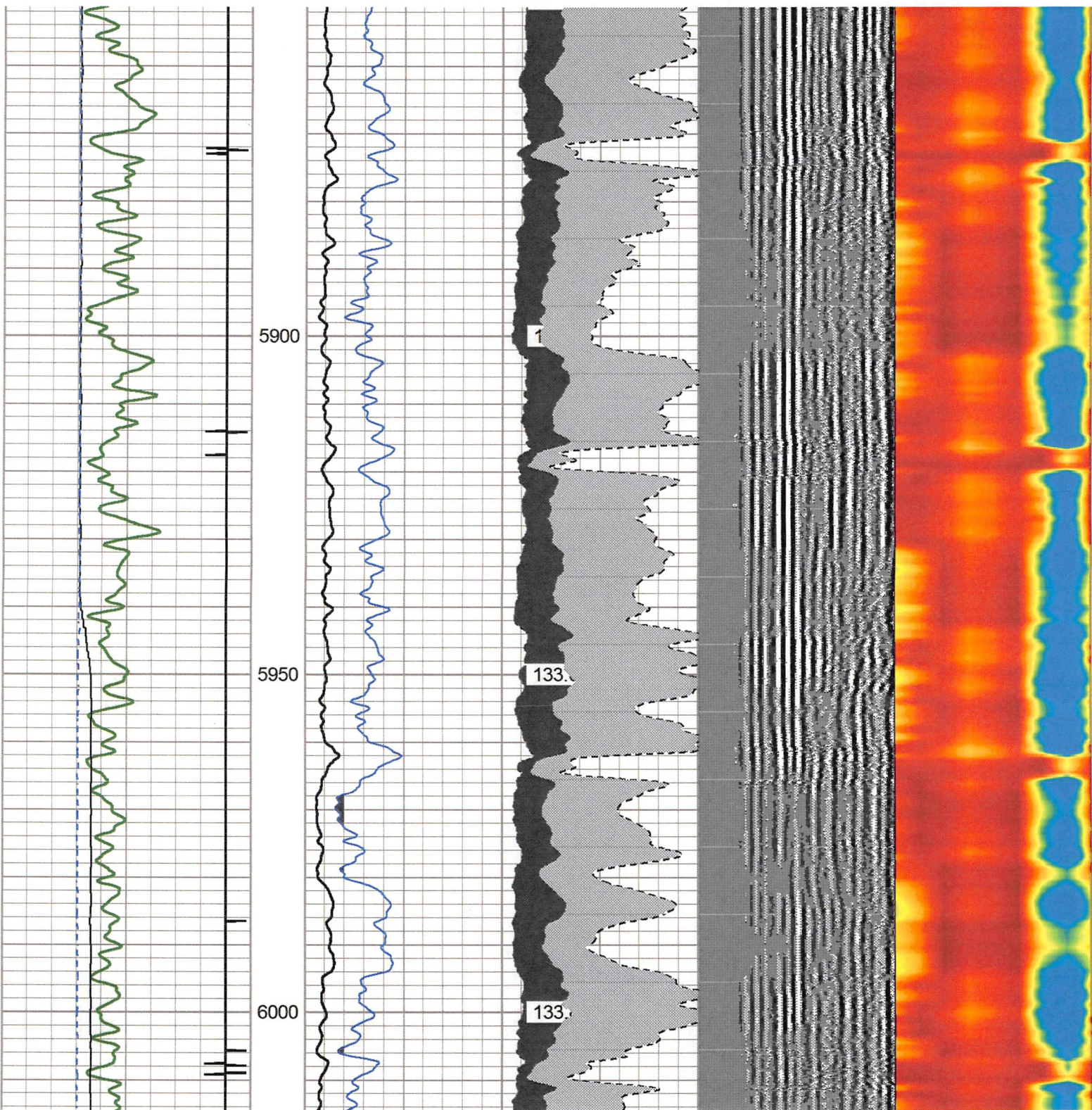


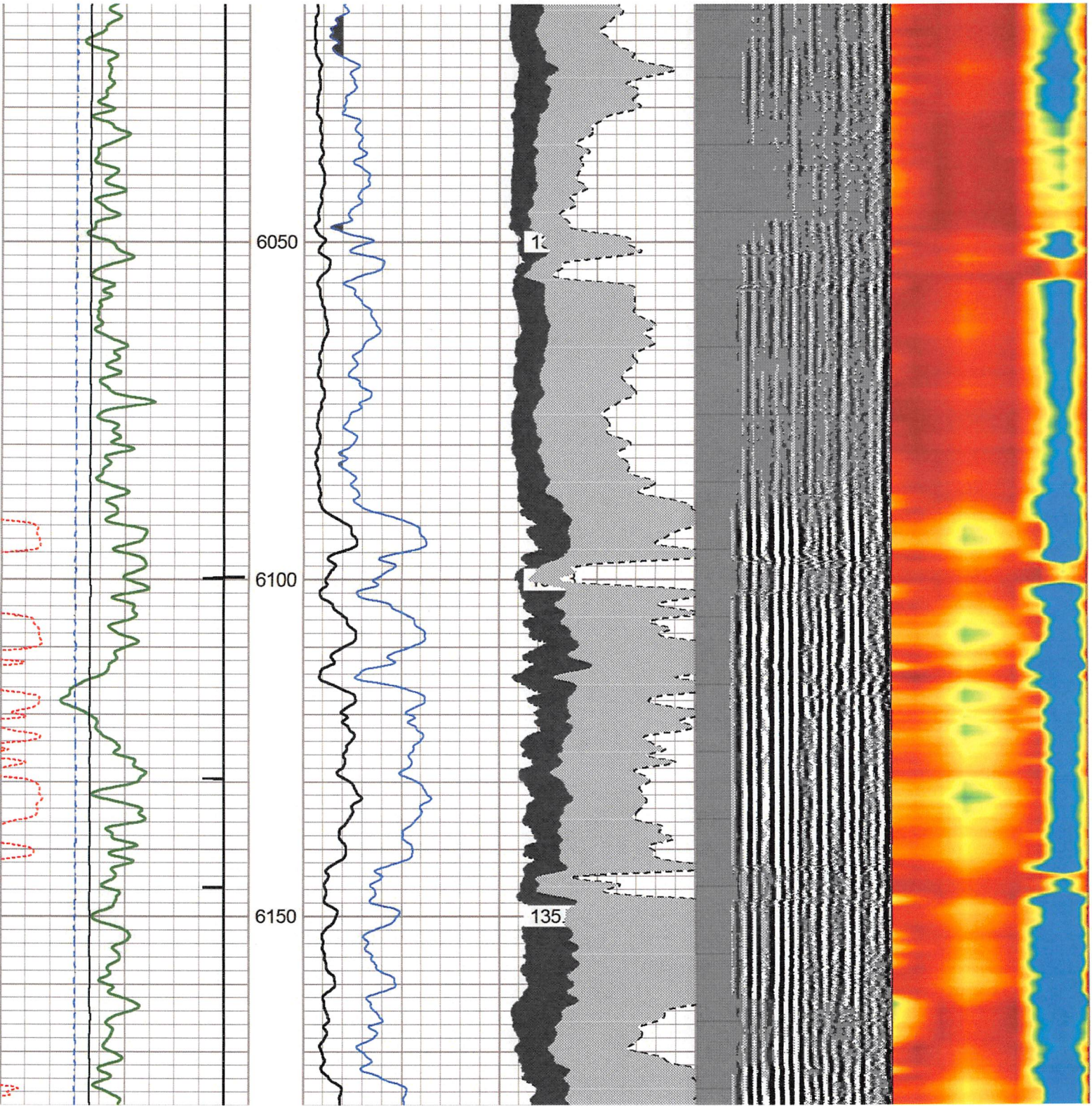


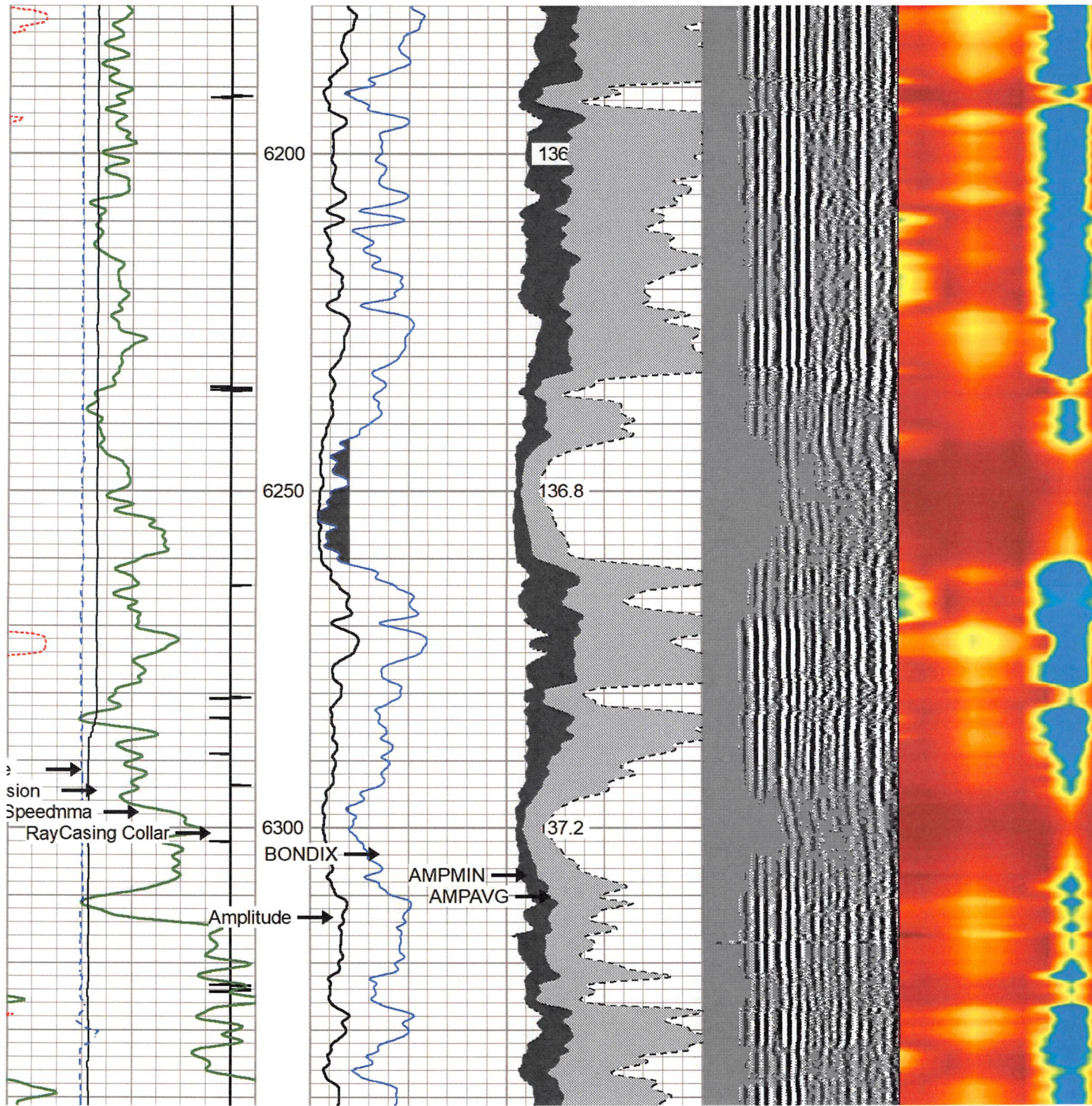


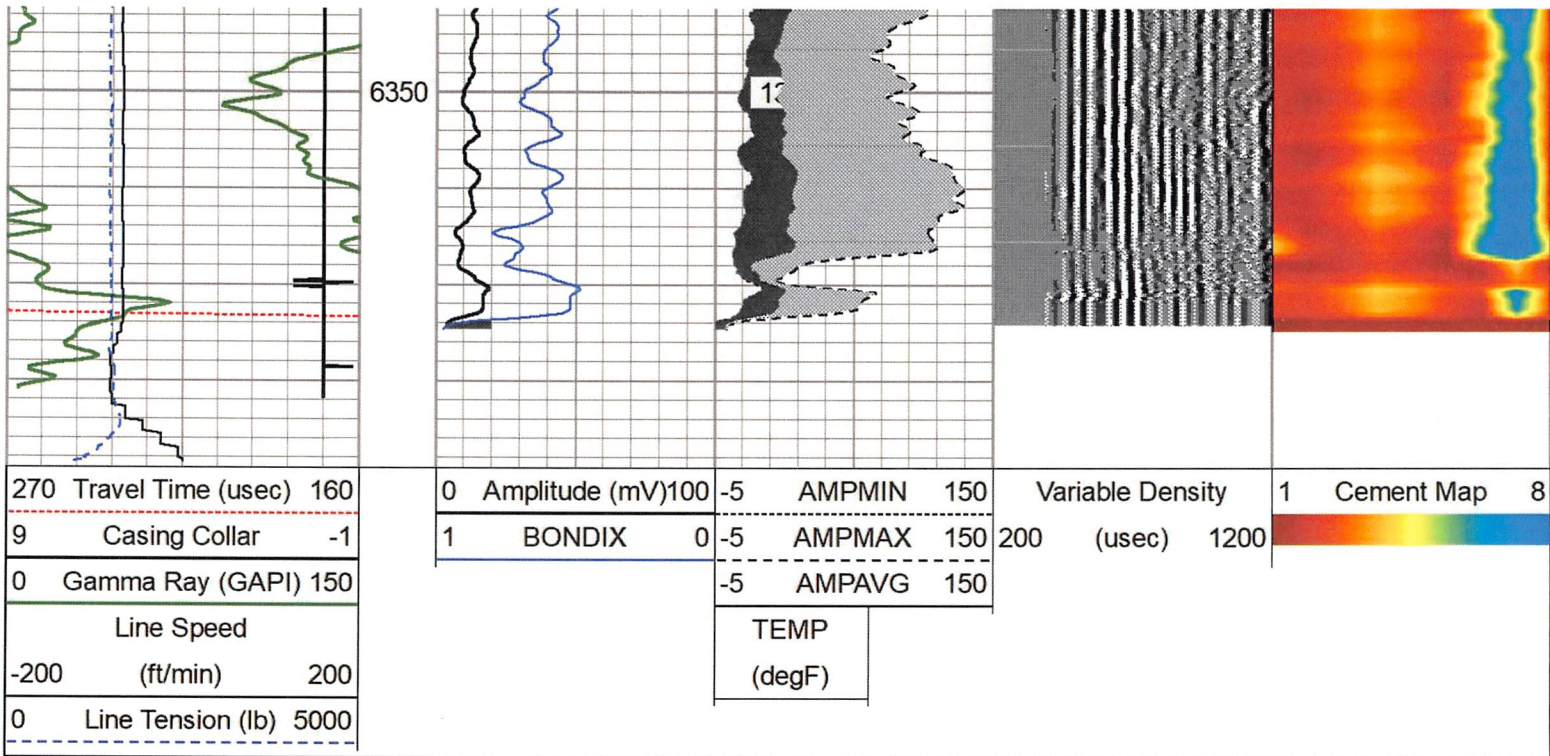








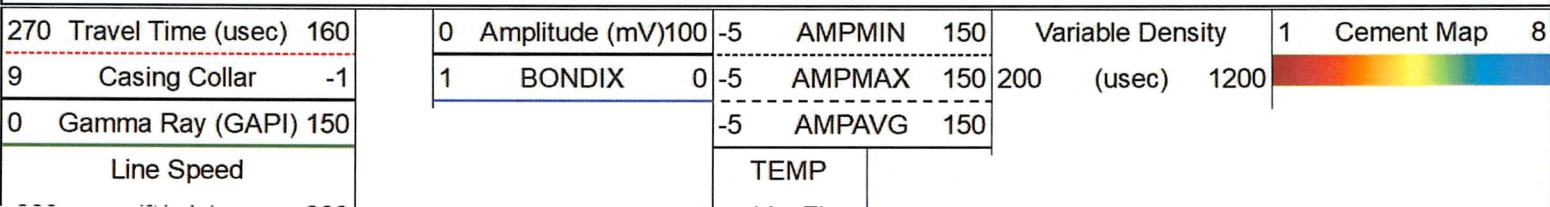




	<h1>Main Pass 1500 PSI</h1>
---	-----------------------------

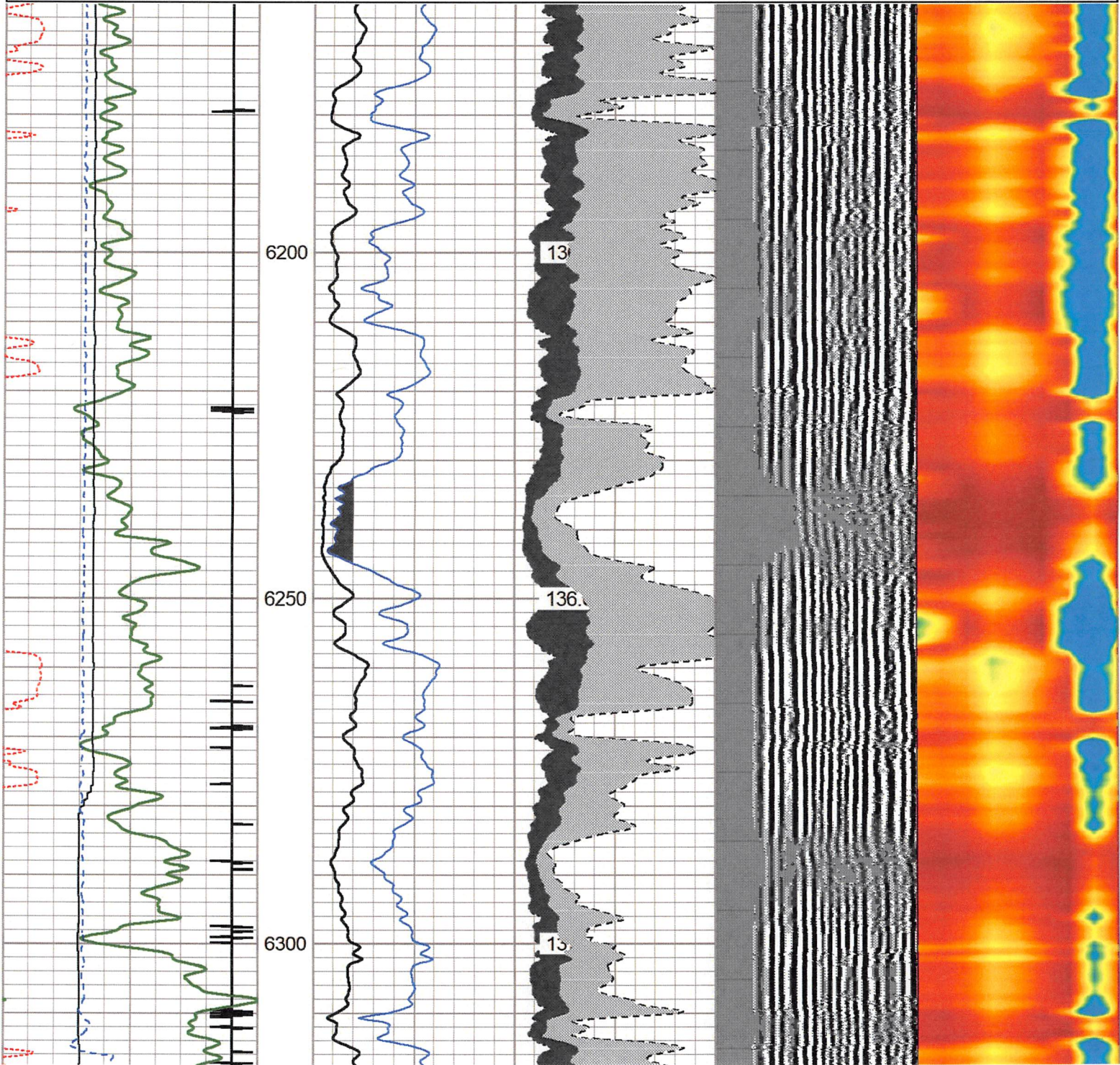
	<h1>Repeat 0 PSI</h1>
---	-----------------------

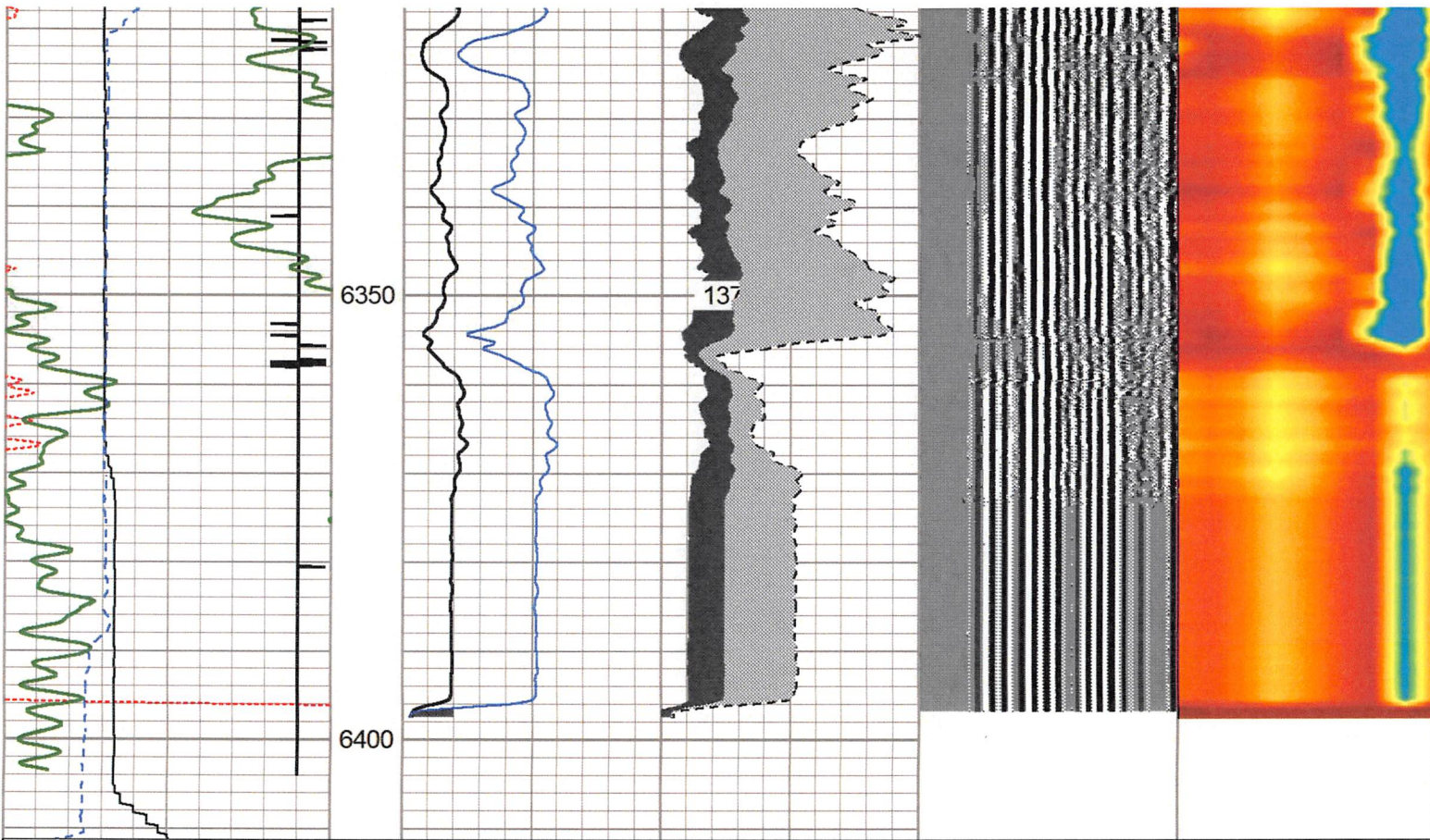
Database File	e:\june 21 2022 antero grenwood 1h\june 21 2022 antero grenwood 1h.db
Dataset Pathname	pass3
Presentation Format	rcbl-bond index for antero 1020
Dataset Creation	Tue Jun 21 11:36:54 2022
Charted by	Depth in Feet scaled 1:240



-200 (ft/min) 200
0 Line Tension (lb) 5000

(deg-)





270	Travel Time (usec)	160
9	Casing Collar	-1
0	Gamma Ray (GAPI)	150
Line Speed		
-200	(ft/min)	200
0	Line Tension (lb)	5000

0	Amplitude (mV)	100	-5	AMPMIN	150
1	BONDIX	0	-5	AMPMAX	150
			-5	AMPAVG	150
		TEMP			
		(degF)			

Variable Density	1	Cement Map	8
200	(usec)	1200	



Repeat 0 PSI

Gamma Ray Calibration Report

Serial Number: FW1211-86
 Tool Model: Probe
 Performed: Fri May 27 10:01:00 2022

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.5000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 2.75"
 Tool Model: Probe275T

Calibration Casing Diameter: 5.500 in
 Calibration Depth: 524.467 ft

Master Calibration, performed Tue Jun 21 10:06:30 2022:



	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.003	0.570	3.400	71.921	119.711	3.720
CAL	1.046	1.047				
5'	-0.014	0.529	3.400	71.921	126.387	5.111
SUM						
S1	0.042	0.619	0.000	100.000	173.134	-7.203
S2	-0.015	0.566	0.000	100.000	172.141	2.501
S3	-0.011	0.588	0.000	100.000	166.789	1.889
S4	-0.014	0.573	0.000	100.000	170.372	2.402
S5	-0.014	0.560	0.000	100.000	174.150	2.447
S6	-0.012	0.582	0.000	100.000	168.584	1.967
S7	-0.013	0.592	0.000	100.000	165.261	2.124
S8	-0.013	0.578	0.000	100.000	169.036	2.278

Internal Reference Calibration, performed Wed Nov 23 14:17:52 2011:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	1.046	1.047	1.000	0.000

Air Zero Calibration, performed Tue Jun 21 09:50:27 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

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-Titan Standard 1 7/16" Cable Head	1.02	1.44	1.00
			Centralizers-5419-312-S600 Titan 3 1/8" Adjustable Centralizer	3.42	3.13	34.00
HeadVolt	20.39					
Temp	17.54					
WVFS8	15.31		RBT-Probe275T (2.75") Probe 2.75" Radial with Integral Temperature Sub	9.39	2.75	90.00
WVFS7	15.31					
WVFS6	15.31					
WVFS5	15.31					
WVFS4	15.31					

WVFS3	15.31					
WVFS2	15.31					
WVFS1	15.31					
WVF3FT	15.31					
WVF5FT	14.31					
WVFCAL	11.06					
HEADVOLT	11.06					
			Centralizers-5419-312-S600 Titan 3 1/8" Adjustable Centralizer	3.42	3.13	34.00
CCL	6.73					
GR	5.40		GR-Probe (FW1211-86) Probe 2 3/4" Logging Gamma Ray	4.78	2.75	57.00
			CENT-Titn275Adj Titan 2 3/4" Adjustable Centralizer	2.86	2.75	35.00

Dataset: june 21 2022 antero grenwood 1h.db: field/well/run1/pass4
 Total length: 24.89 ft
 Total weight: 251.00 lb
 O.D.: 3.13 in

	Company	Antero Resources	
	Well	Grenwood 1H	
	Field		
	County	Tyler	
	State	WV	Country