



Radial Cement Bond
Gamma Ray CCL
Temperature Log

Company Antero Resources Corporation Well McKean Unit 1H Field South Canton County Doddridge State WV	Company Antero Resources Corporation			
	Well McKean Unit 1H			
	Field South Canton			
	County Doddridge		State WV	
	API # : 47-017-06914-00-00 AFE # : A11777 Location (LAT,LON): 39.314637, -80.762719 Township: West Union			Other Services None
Permanent Datum Ground Level Elevation 1216' Log Measured From KB = 30' Drilling Measured From KB			Elevation K.B. 1246' D.F. 1246' G.L. 1216'	
Date	16 JUL 2022			
Run Number	One			
Depth Driller (ft)	22243			
Depth Logger (ft)	7274			
Bottom Logged Interval (ft)	7262			
Top Log Interval	Surface			
Open Hole Size (in)	8.5			
Type Fluid	Water			
Density / Viscosity (lb/gal)	8.4			
Max. Recorded Temp. (°F)	151.5			
Estimated Cement Top (ft)	4687			
Time Well Ready	11:00 AM			
Time Logger on Bottom	05:50 PM			
Equipment Number	8018			
Location	Delmont, PA			
Recorded By	T. Trump			
Witnessed By	D. Fenstermaker			
Casing Record	Size (in)	Weight (lb/ft)	Top (ft)	Bottom (ft)
Conductor String	20	78.67	Surface	130
Surface String	13.375	54.5	Surface	330
Intermediate String	9.625	36	Surface	2562
Production String	5.5	23	Surface	22223
Inclination Information (Approximated Values from Directional Survey)				
KOP	30°	60°	90°	
1140'	6760'	7050'	7400'	
THANK YOU FOR USING GR ENERGY SERVICES				

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 Correlated to Bottom Log Marker Joint
Log Adjusted + 0.25'

Marker Joint Located @ 6389' - 6400'

Maximum Temperature Recorded was 151.5°F
Maximum Tension 1565 lbs

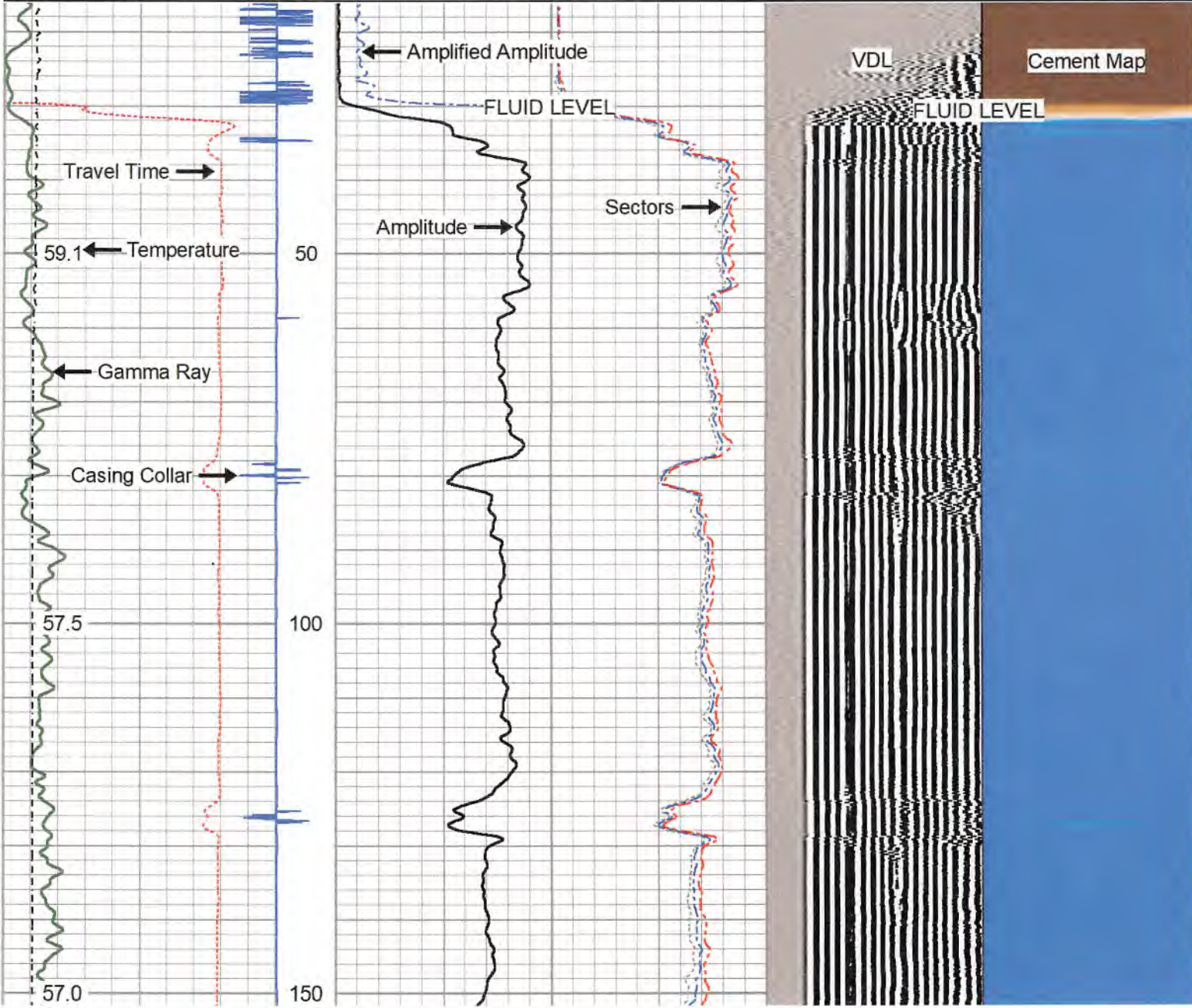
Estimated Top of Cement @ 4687'

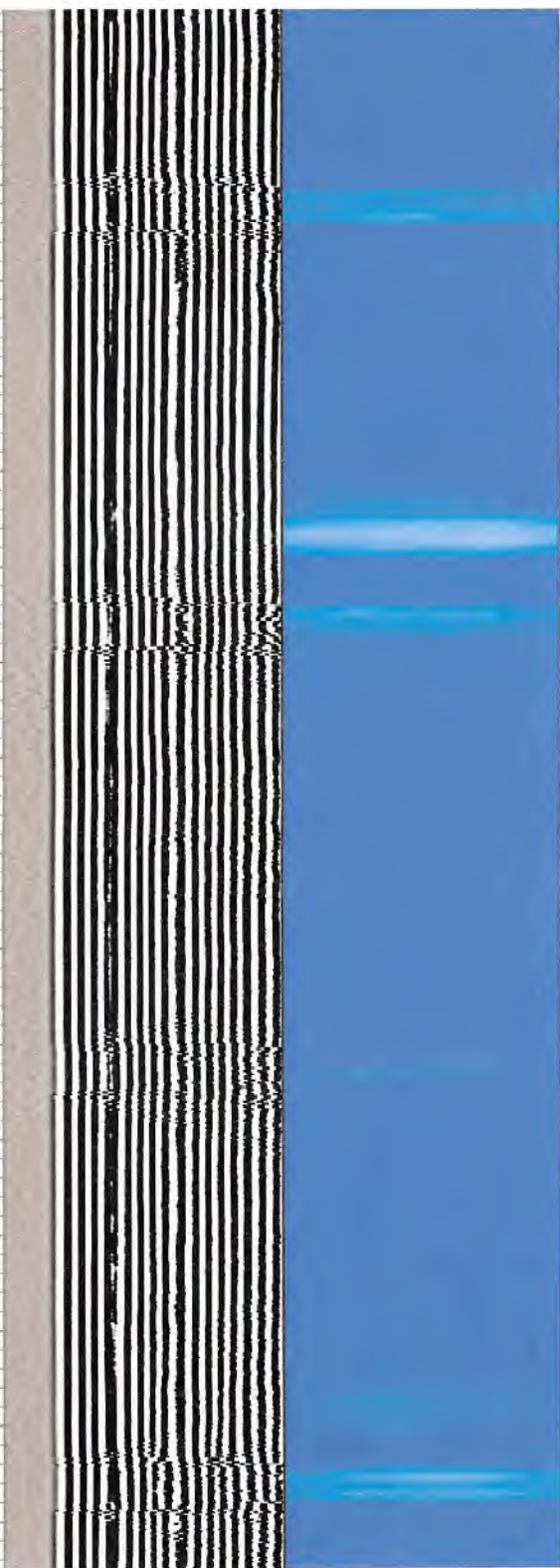
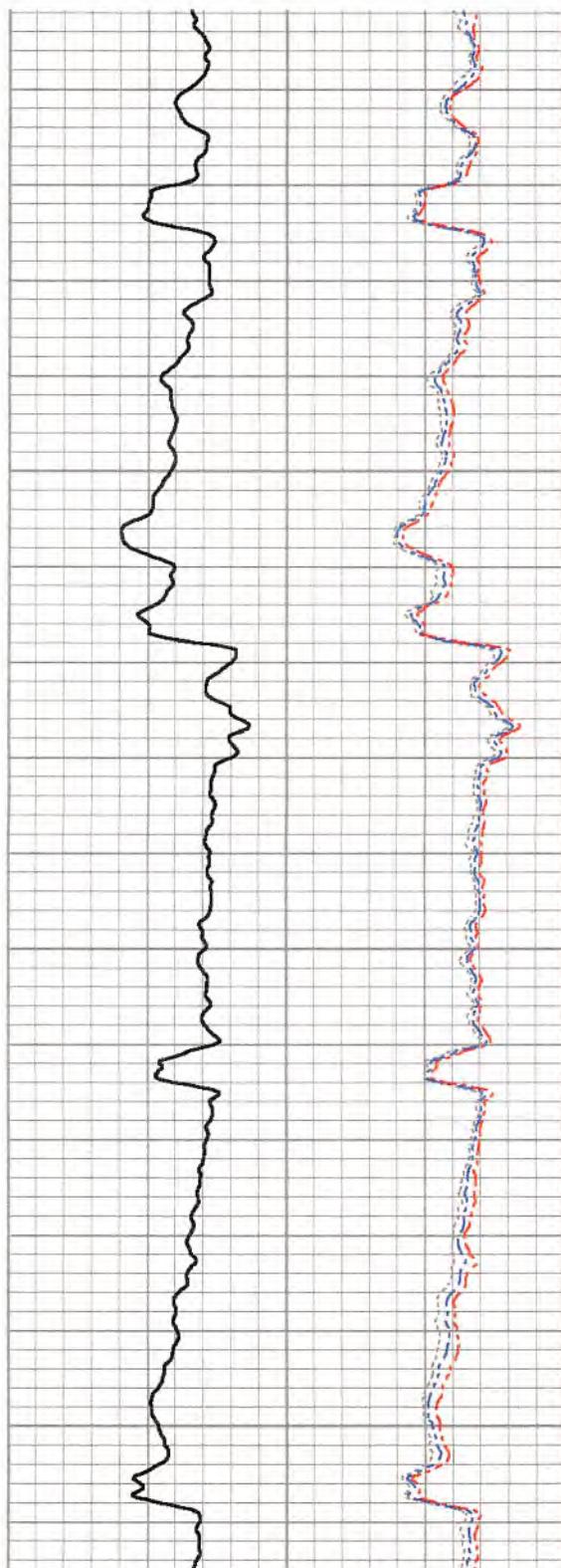
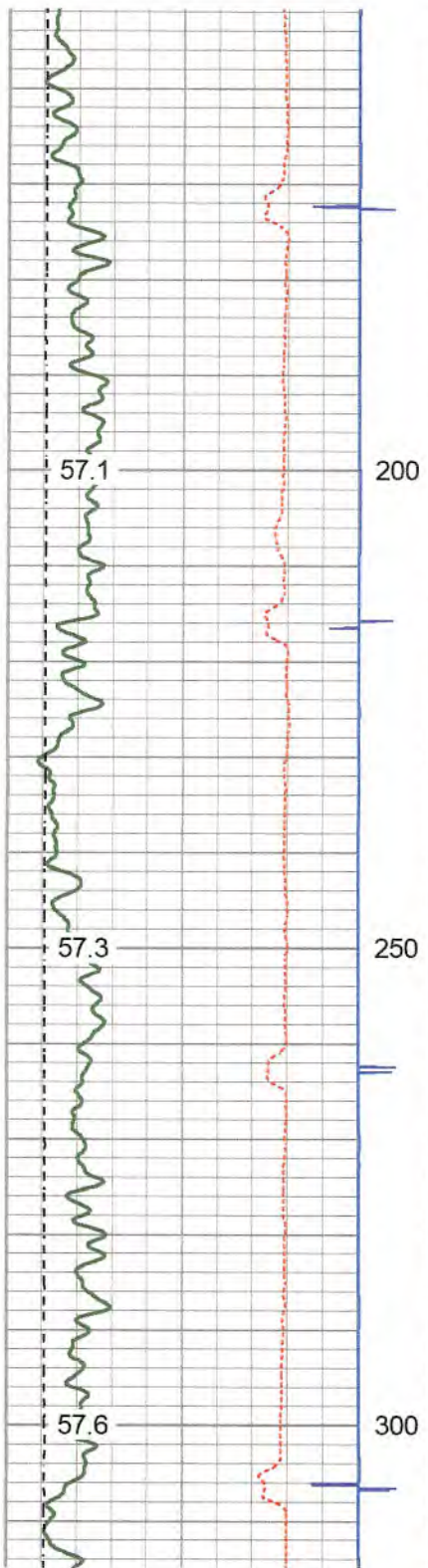


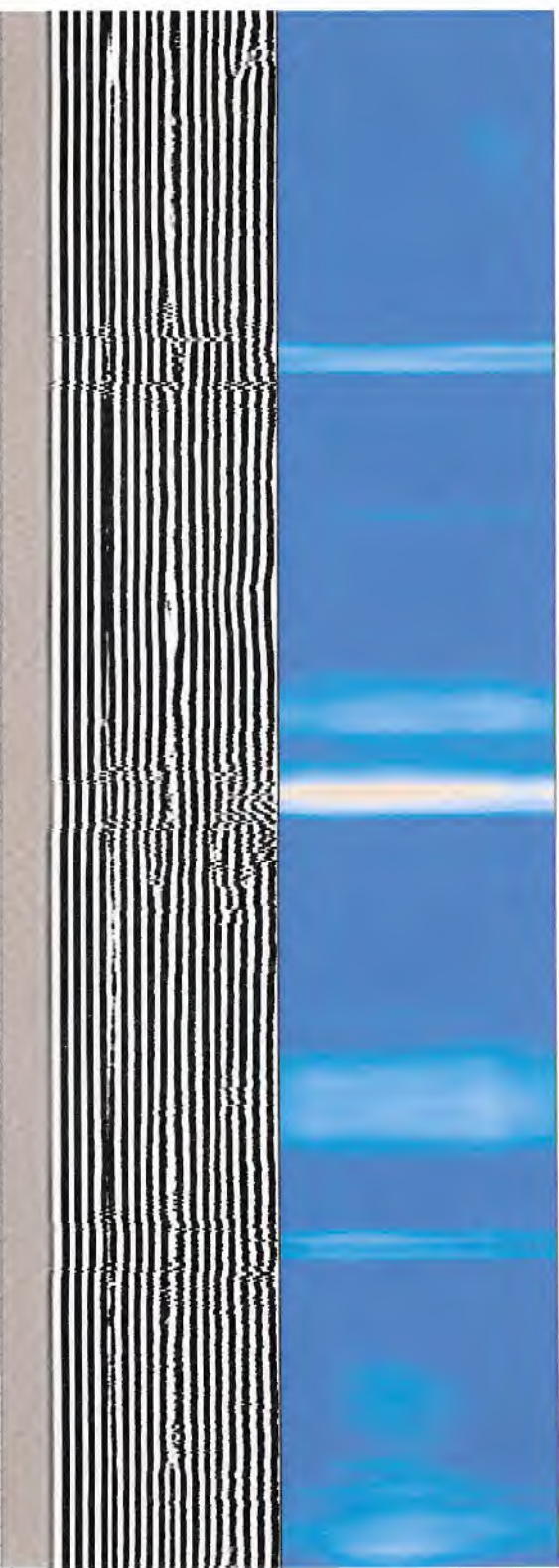
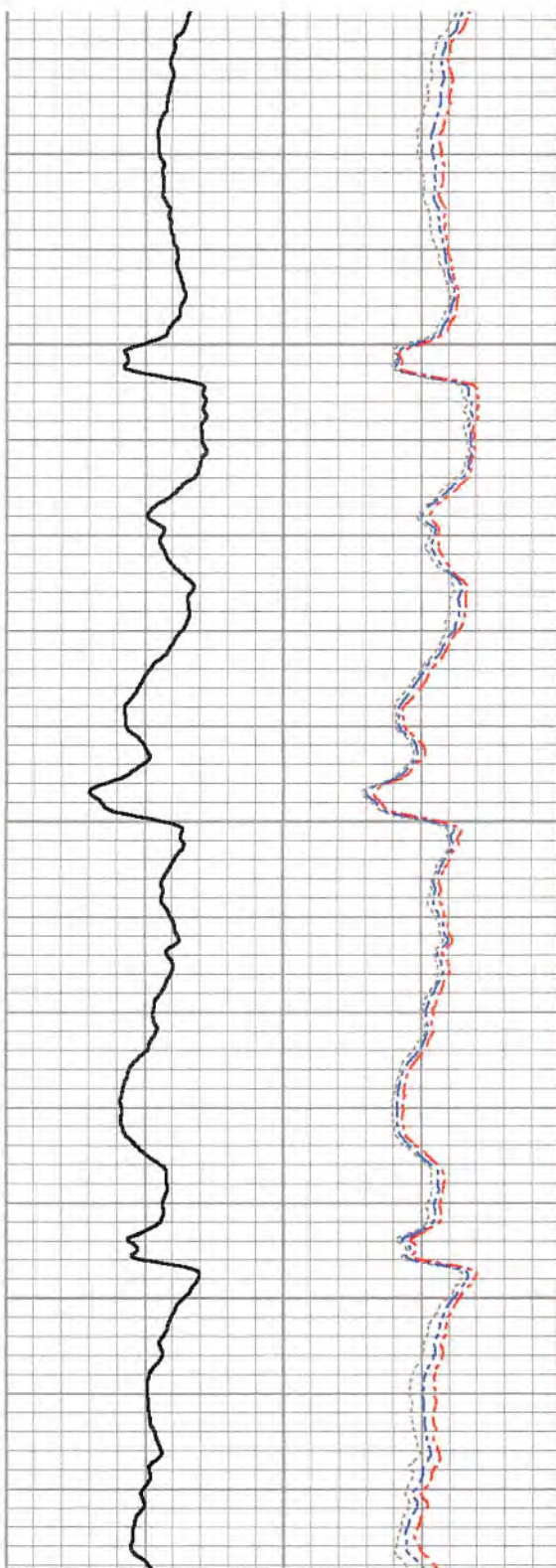
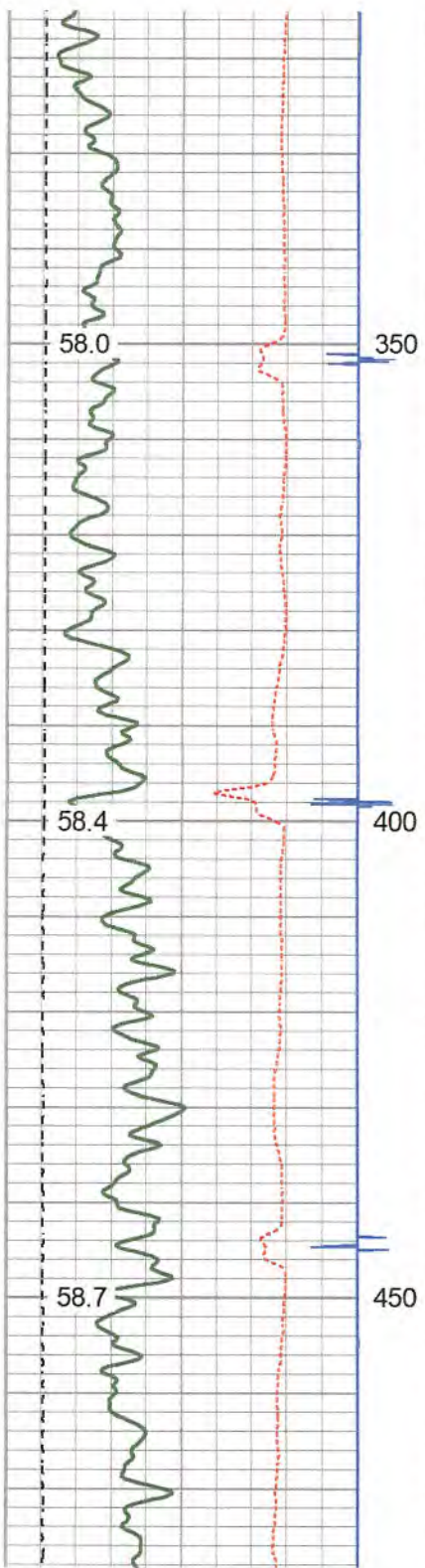
Main Pass (1500 PSI)

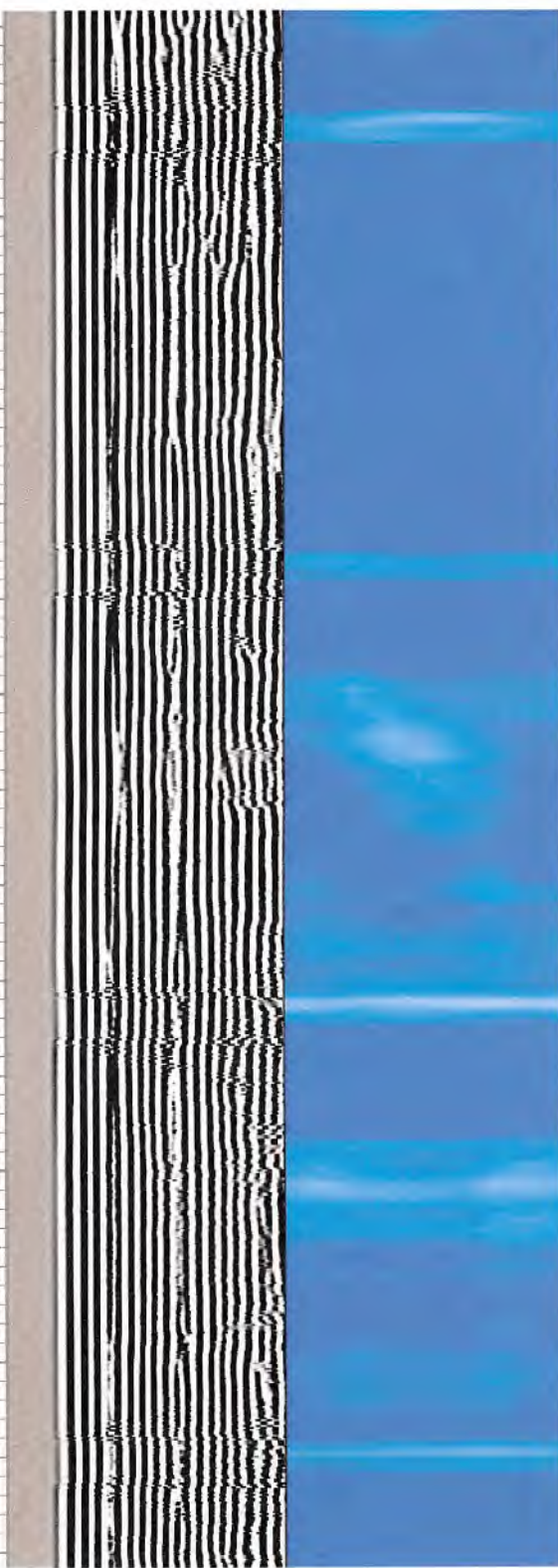
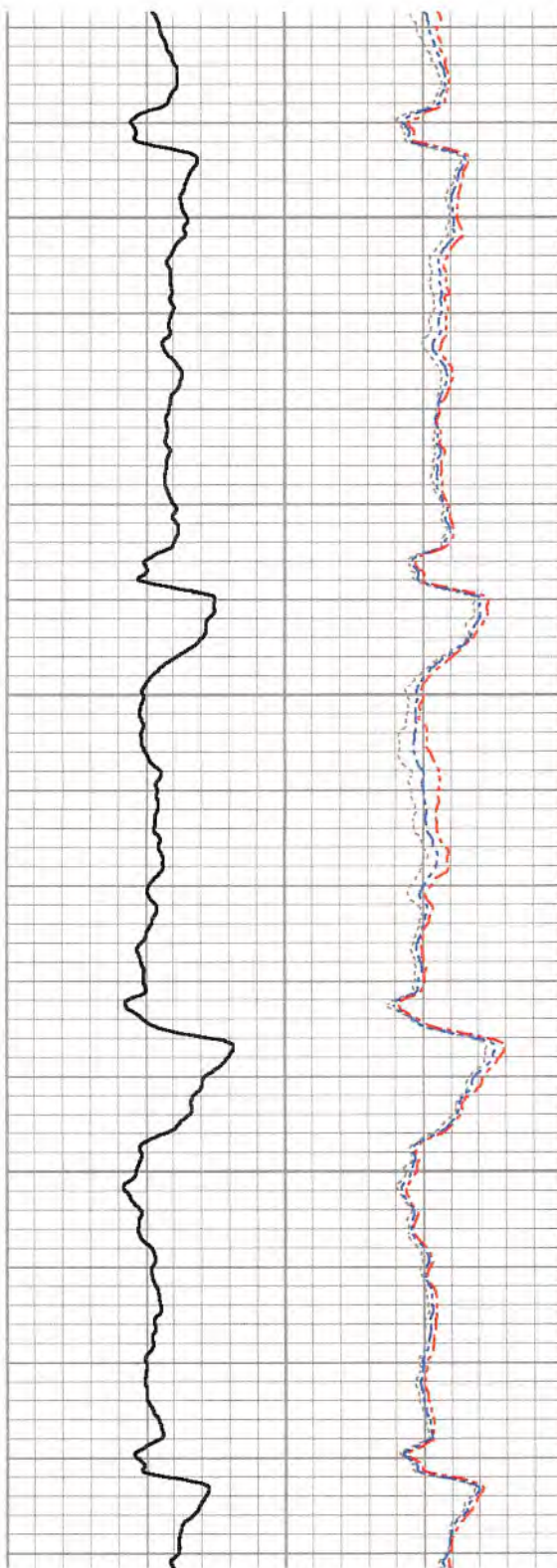
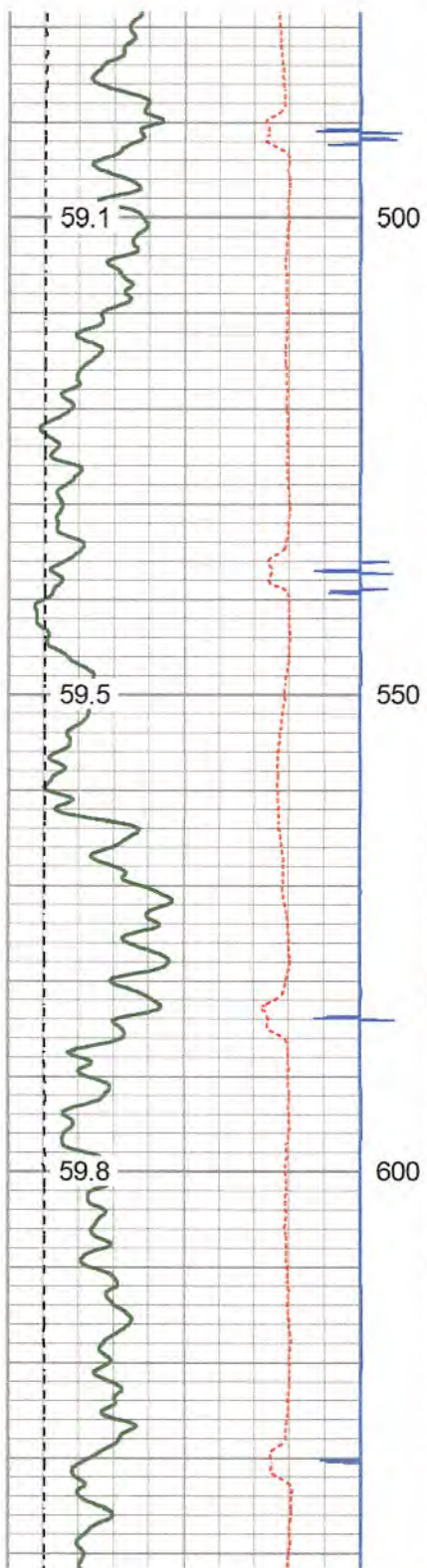
Database File	c:\users\logbox\desktop\antero gaspar\ant_gaspar_mckean_1h.db
Dataset Pathname	rcbl/pass4
Presentation Format	tt_rcbl_std_bw
Dataset Creation	Sat Jul 16 17:47:45 2022
Charted by	Depth in Feet scaled 1:240

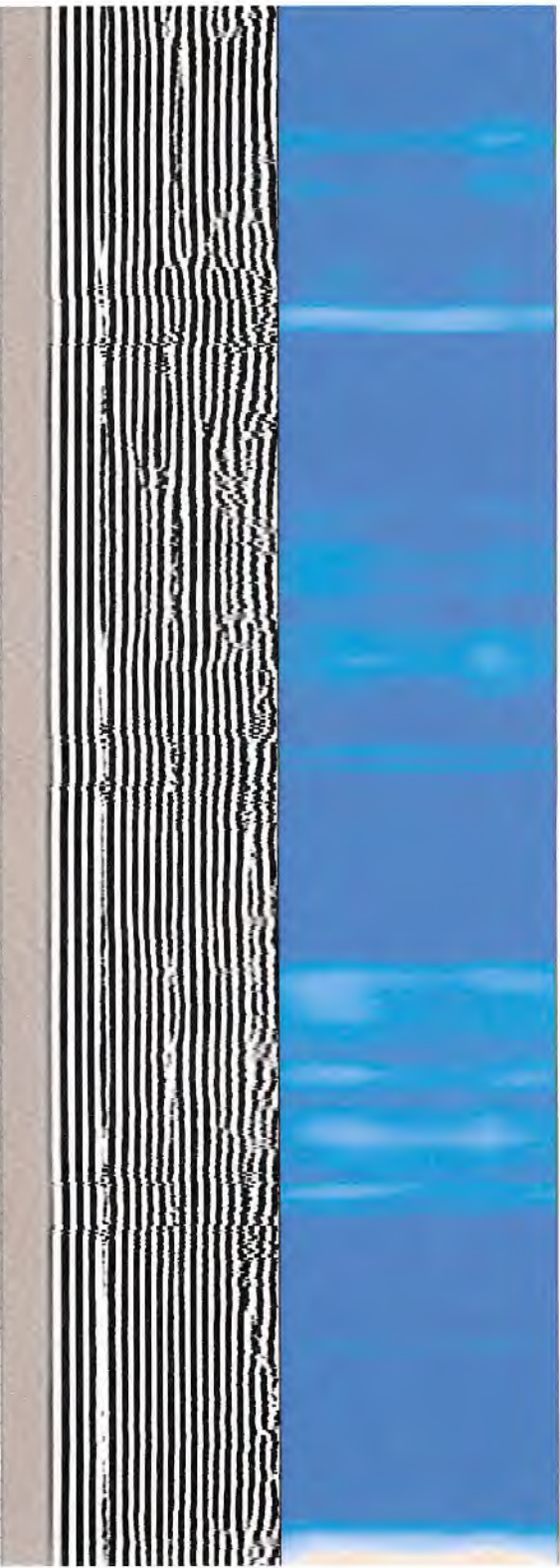
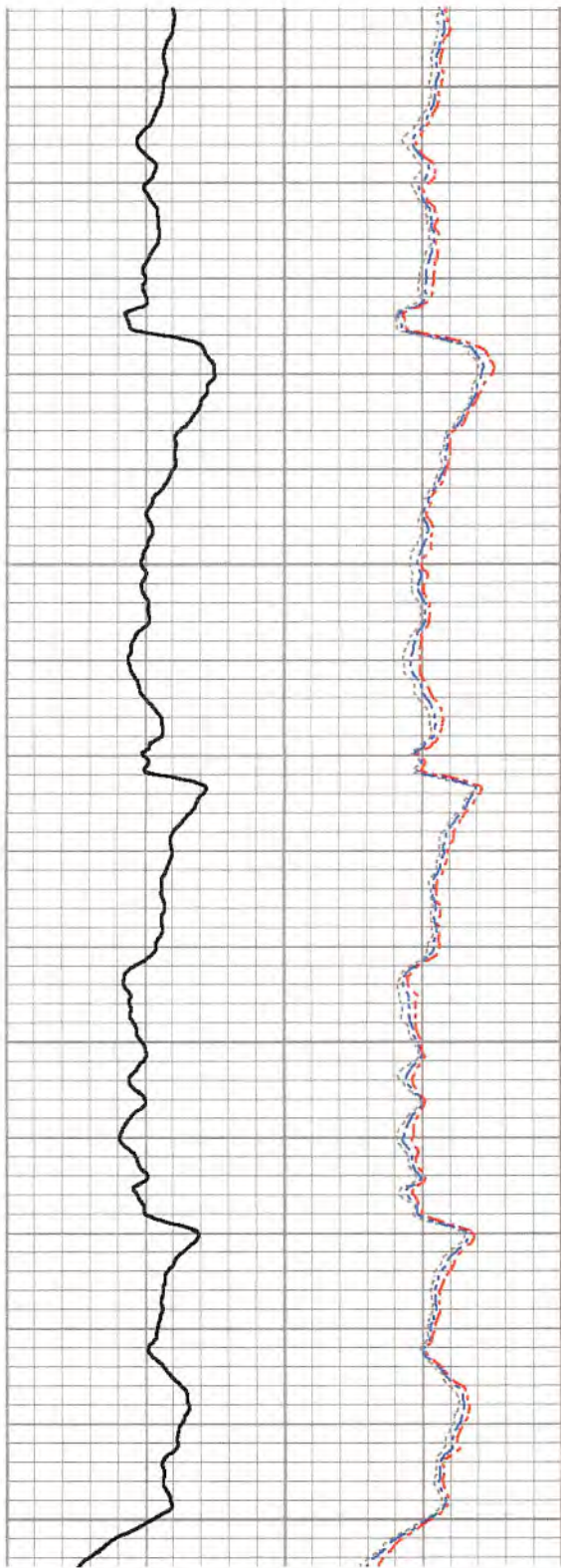
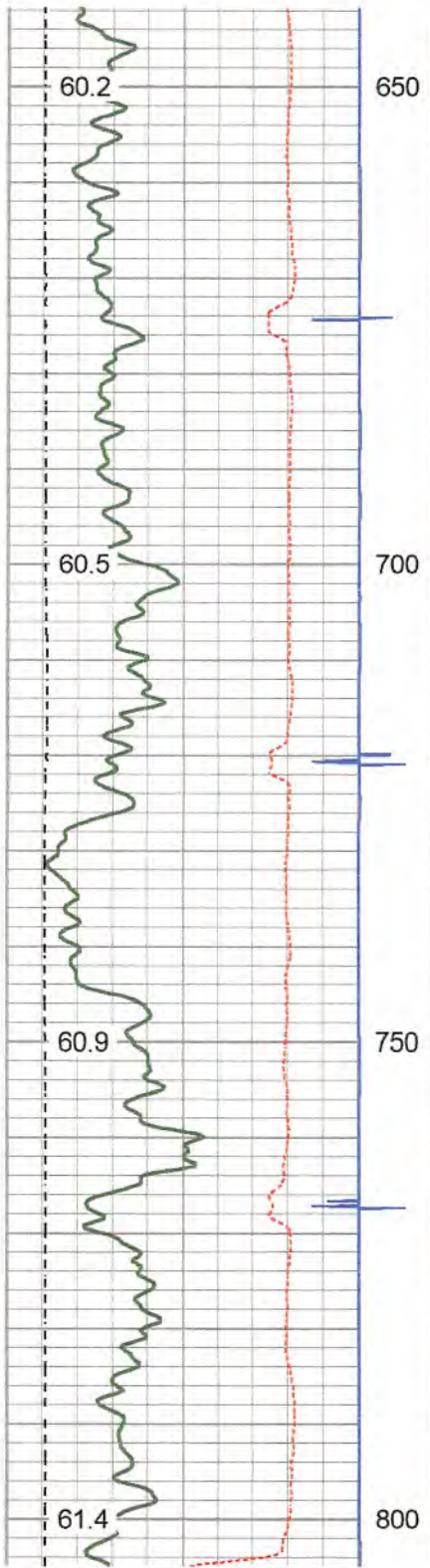
340	Travel Time (usec)	240	0	Amplitude (mV)	100	-5	AMPMin	150	200	VDL (usec)	1200	Cement Map
0	Gamma Ray (GAPI)	150		Amplified Amplitude		-5	AMPAvg	150				
0	Line Tension (lb)	3000	0	(mV)	10	-5	AMPMax	150				
TEMP (degF)		CCL										

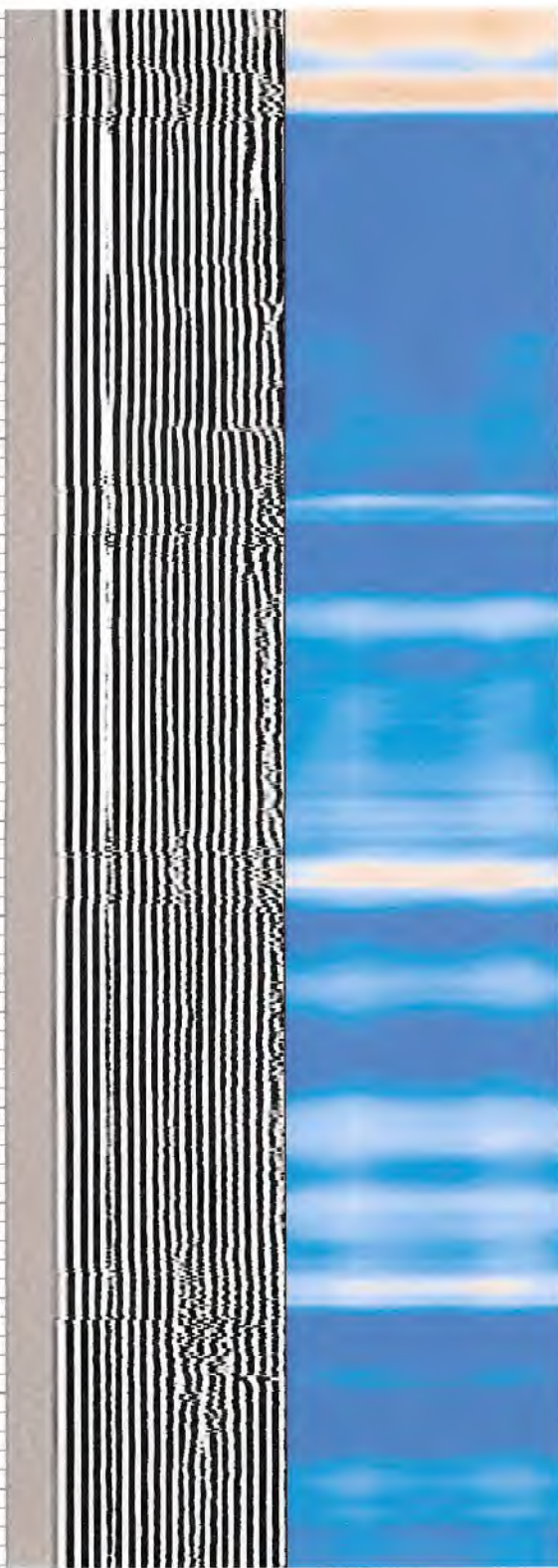
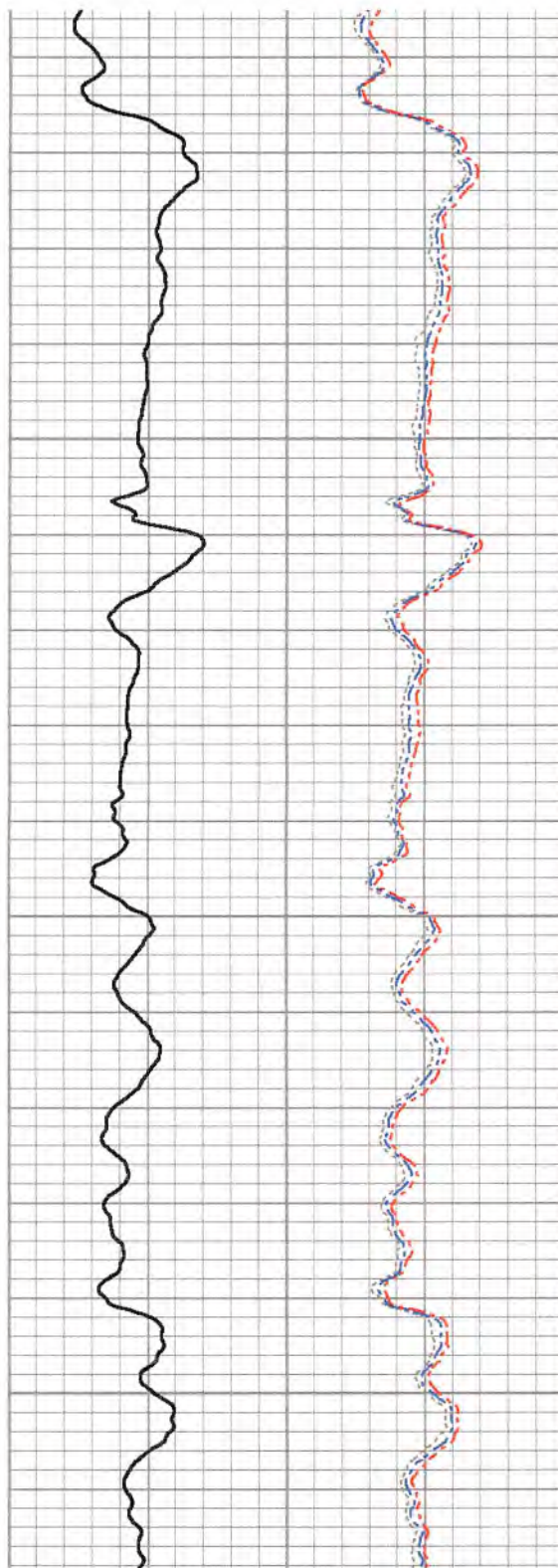
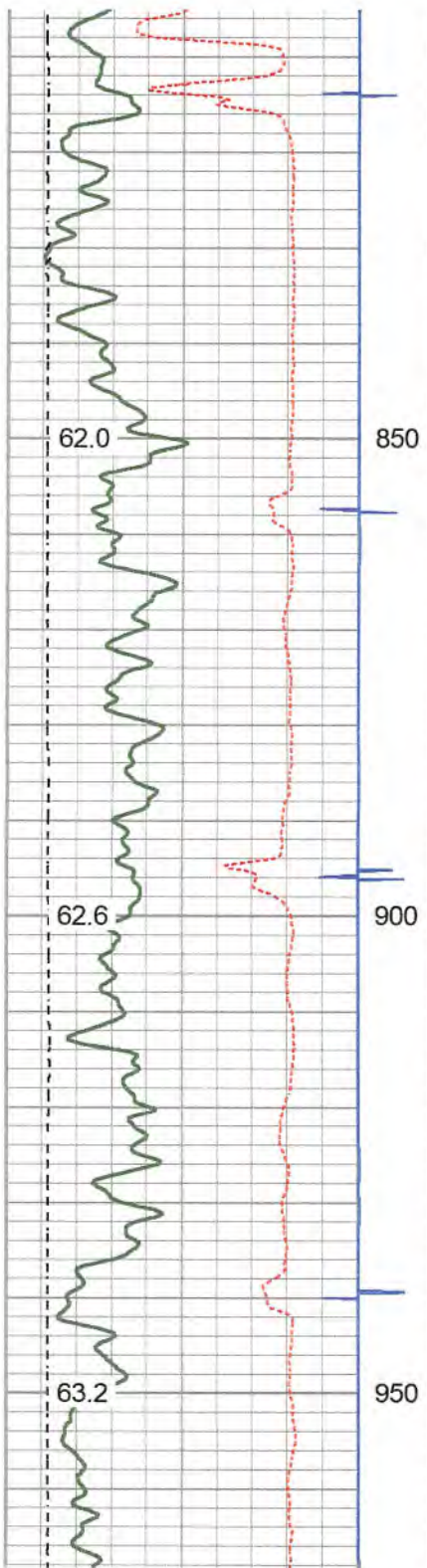


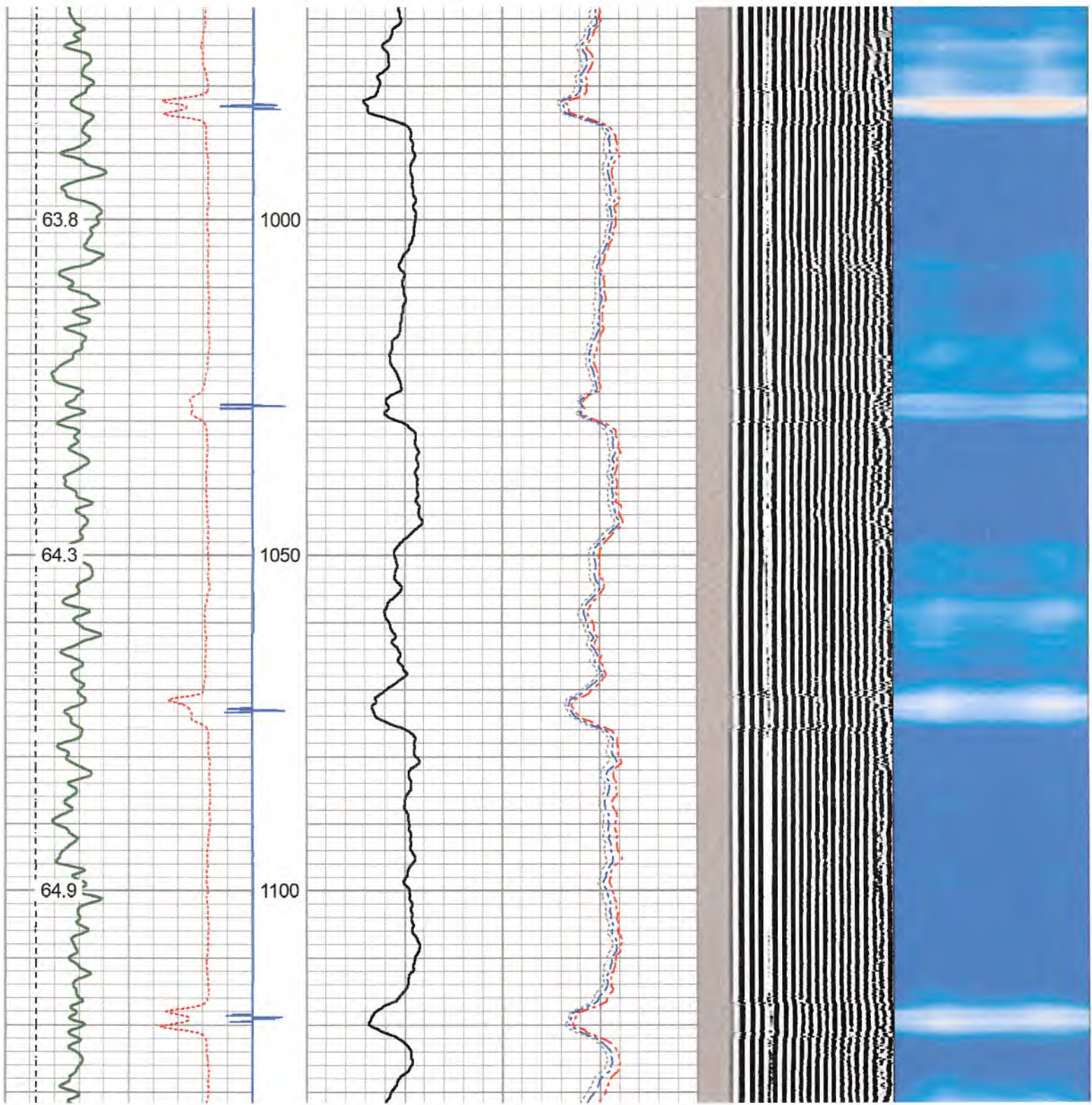


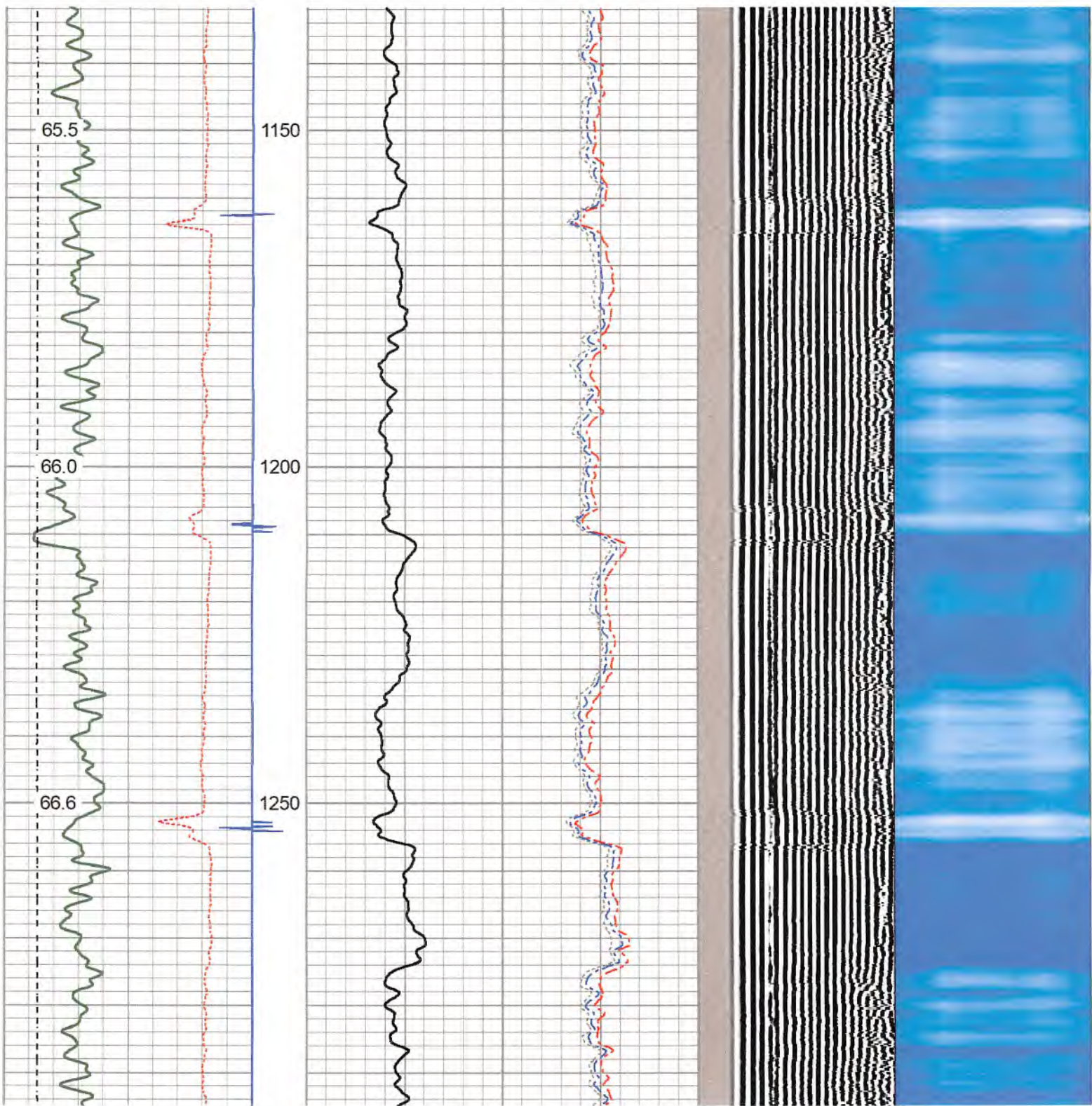


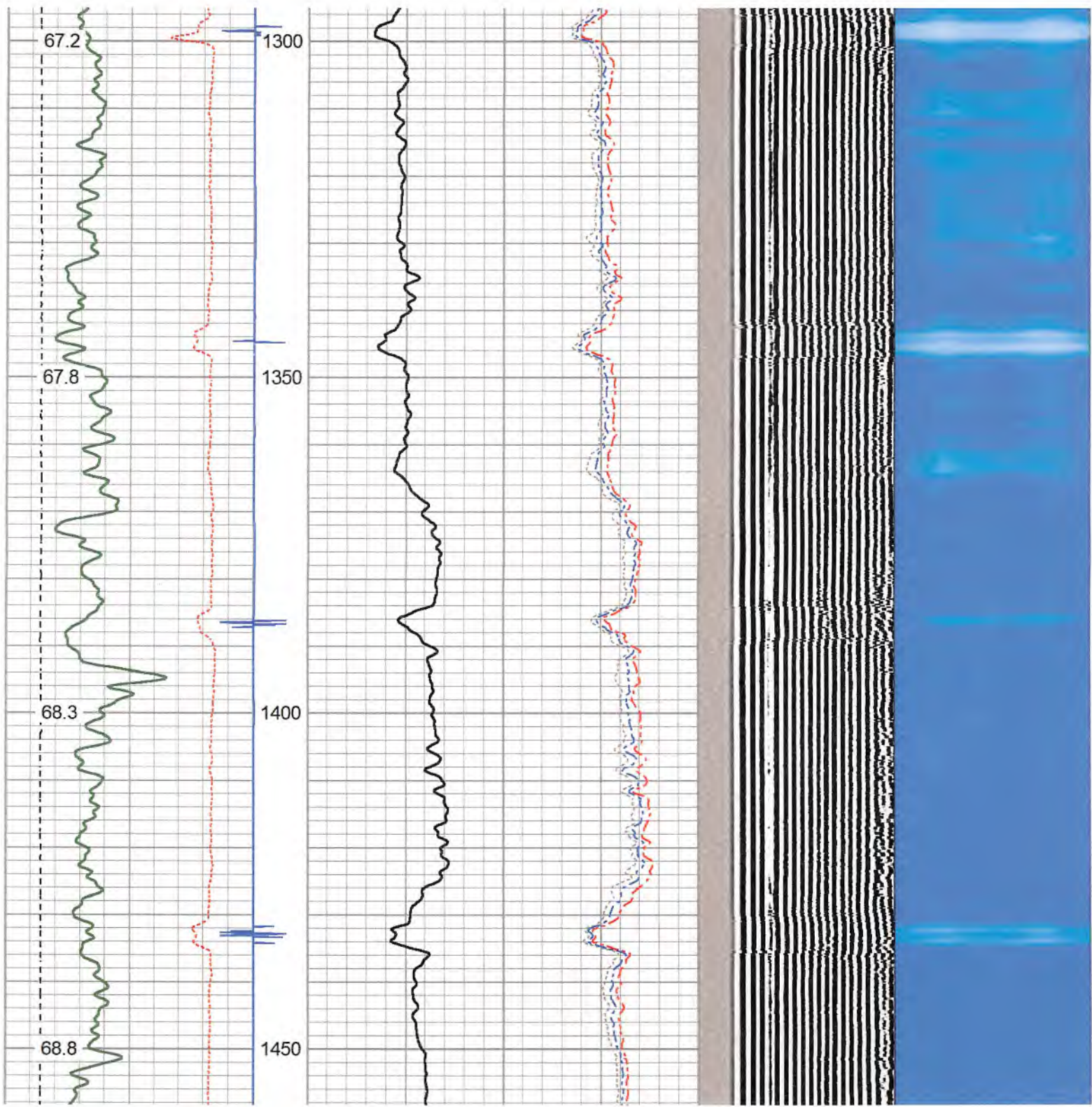


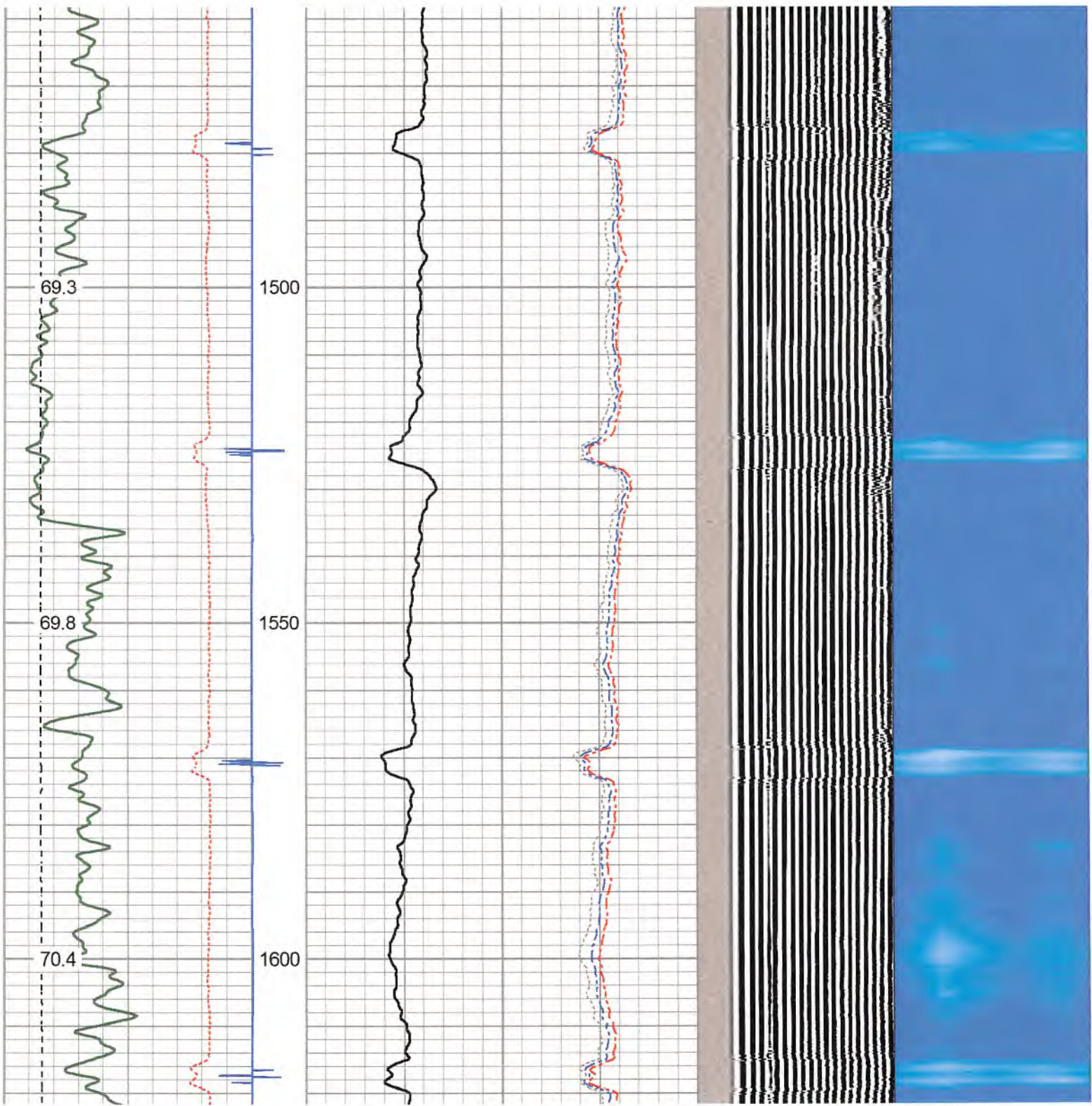


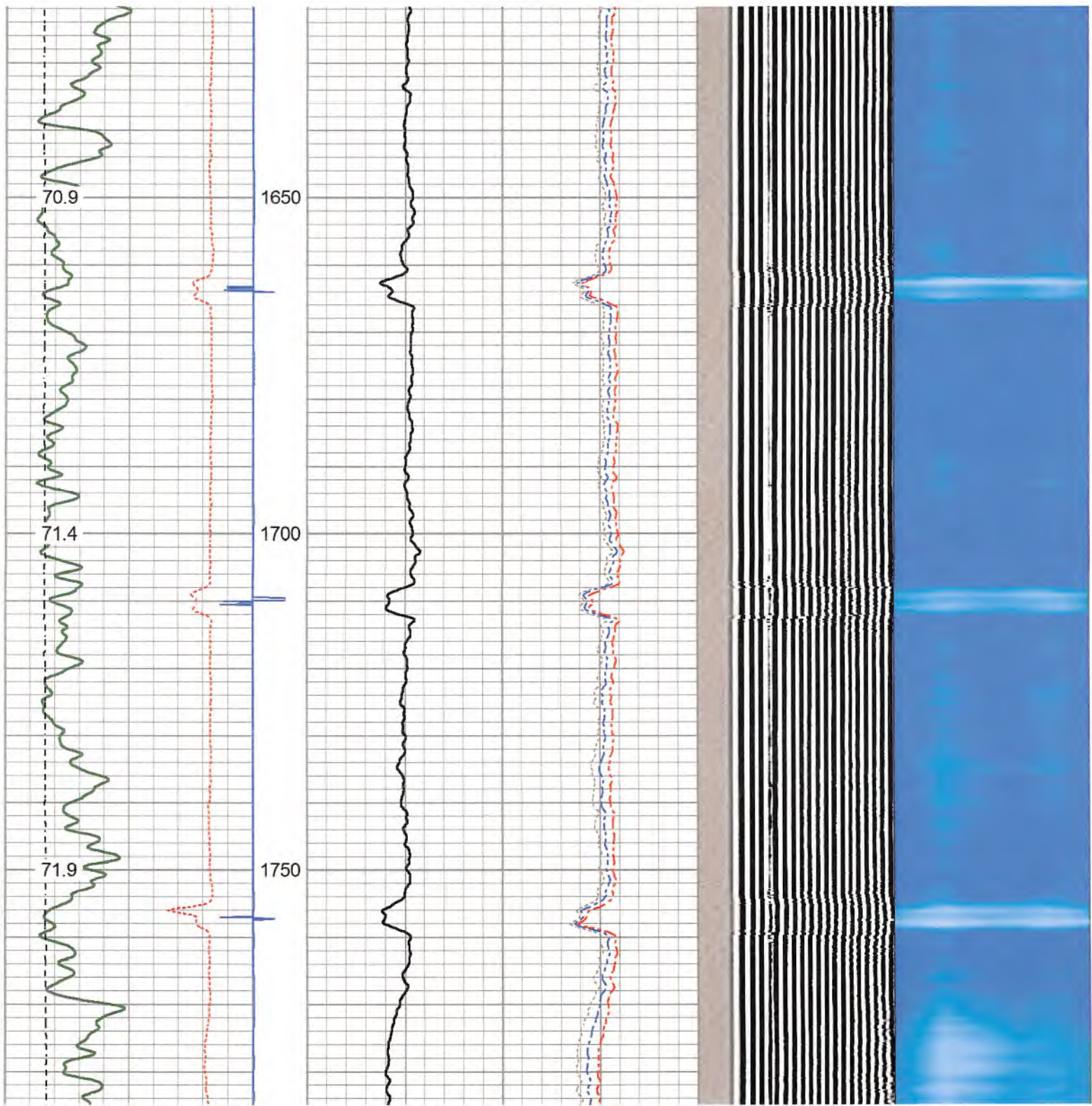


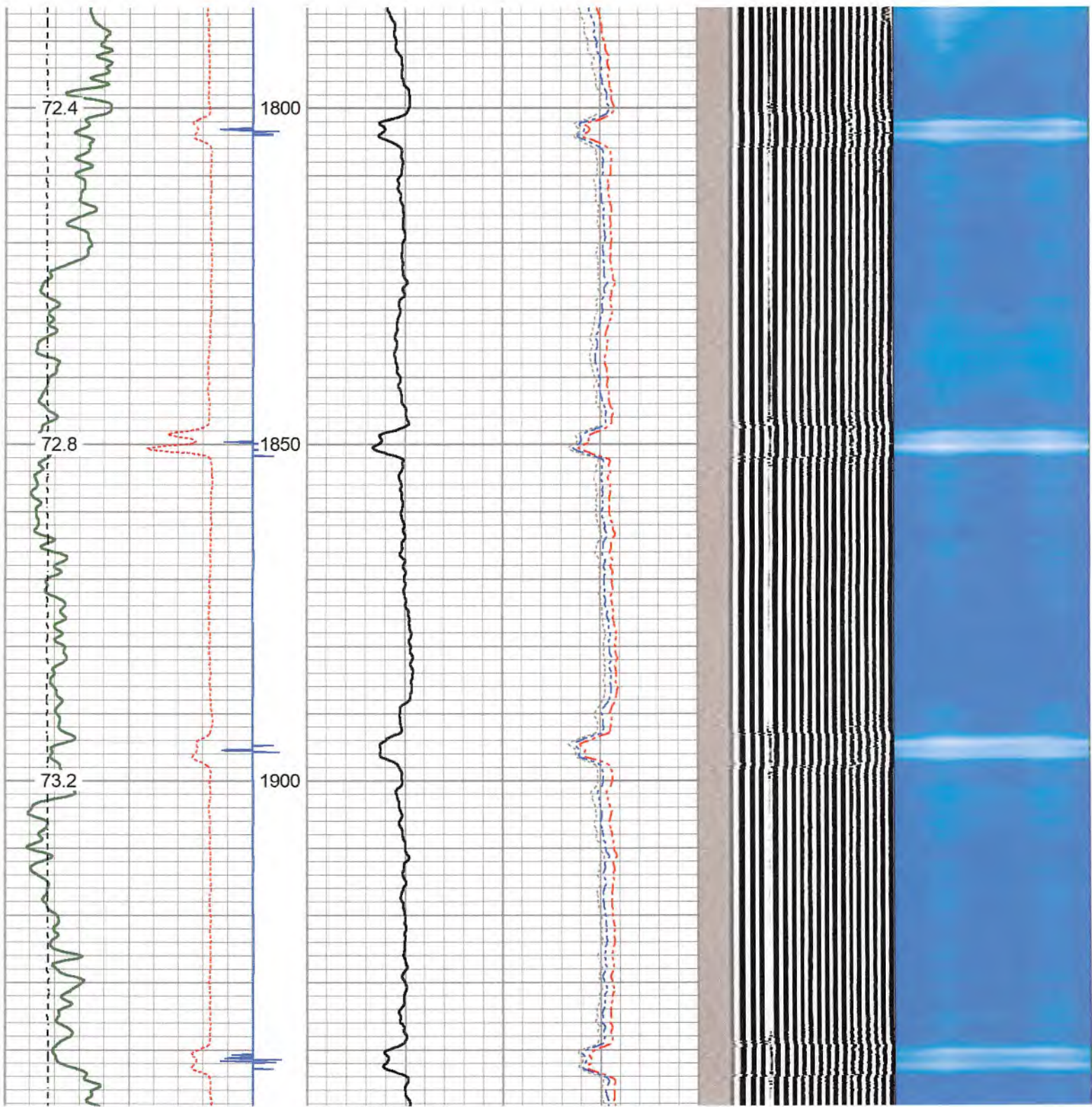


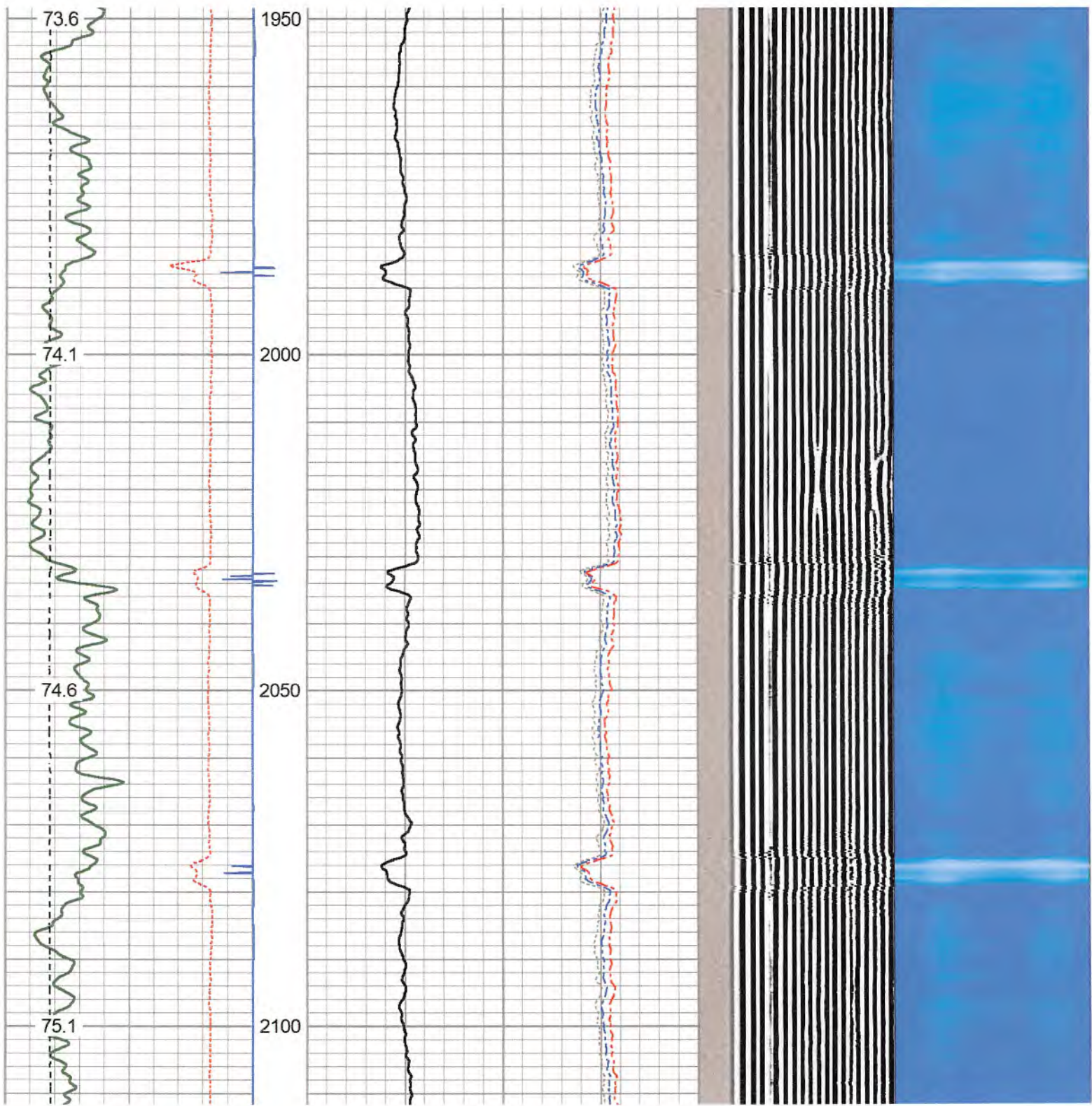


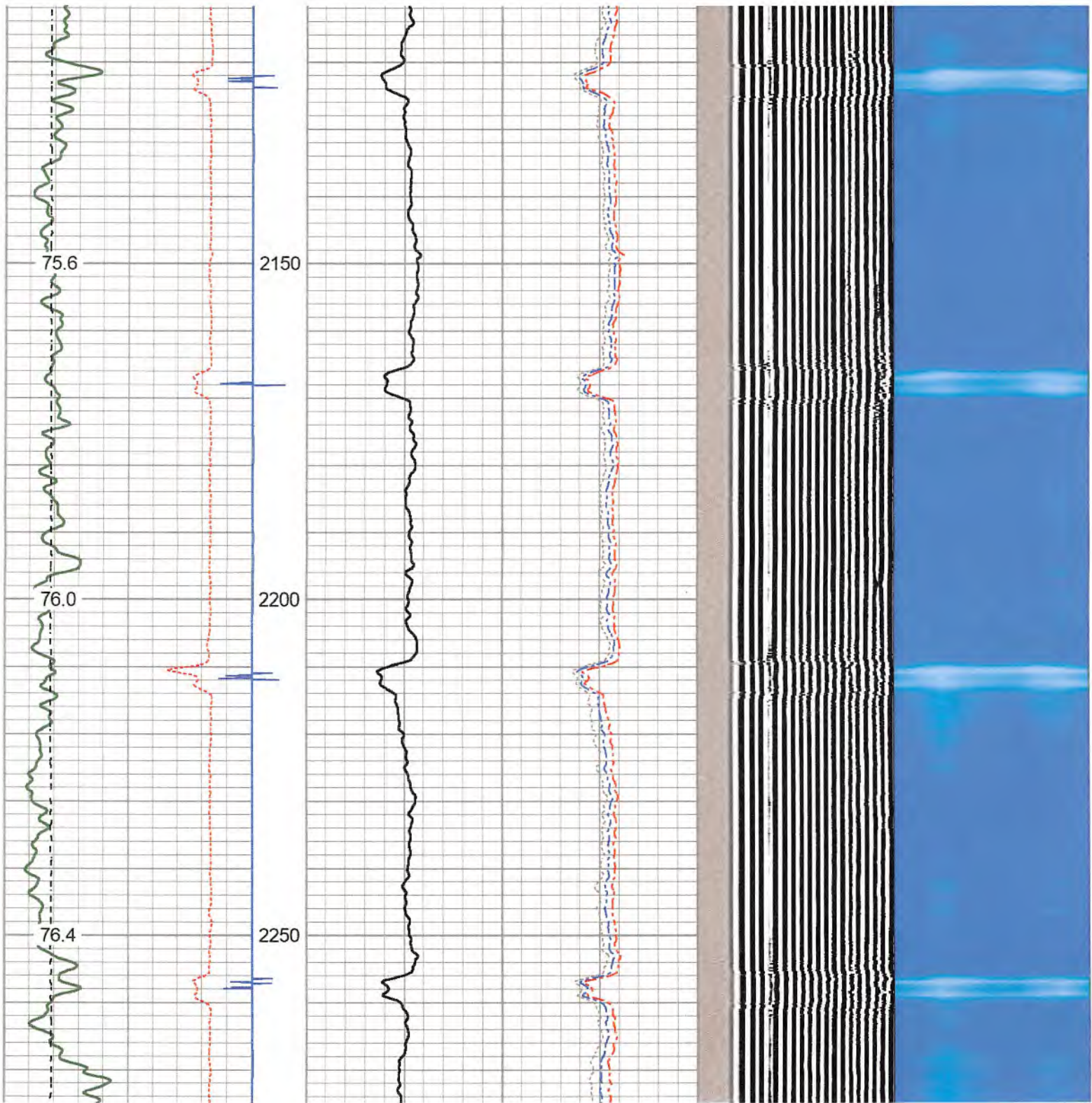


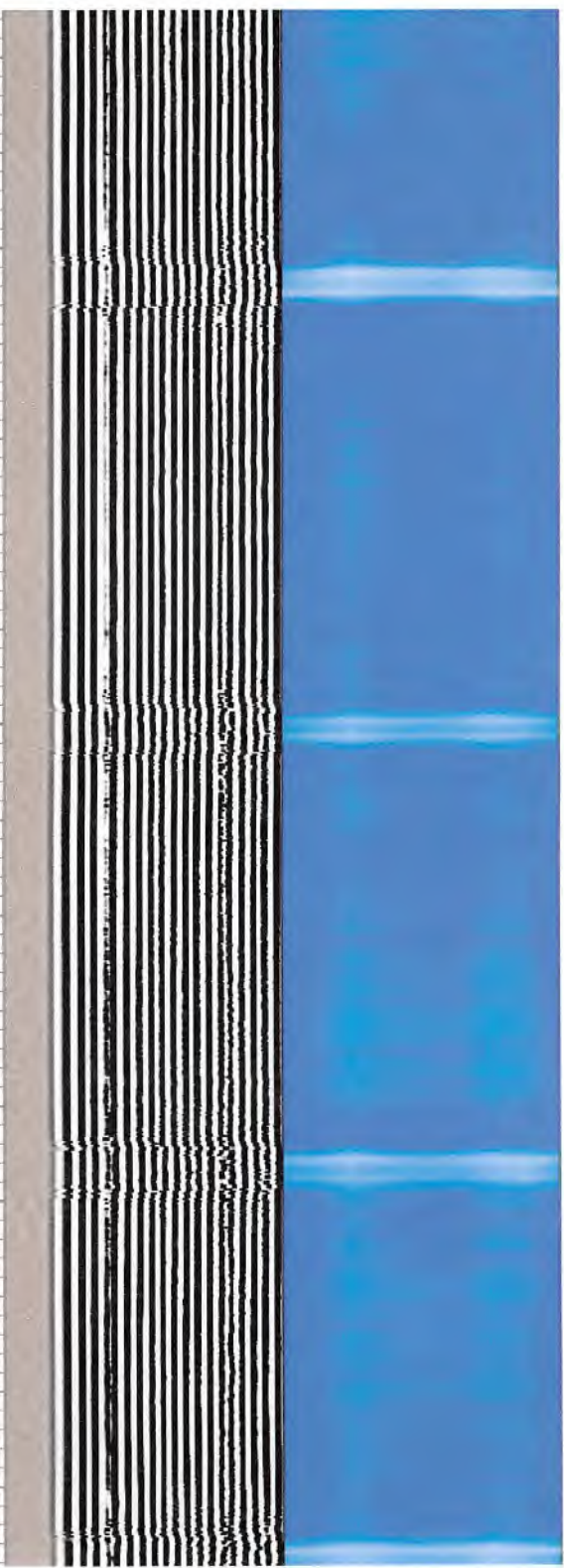
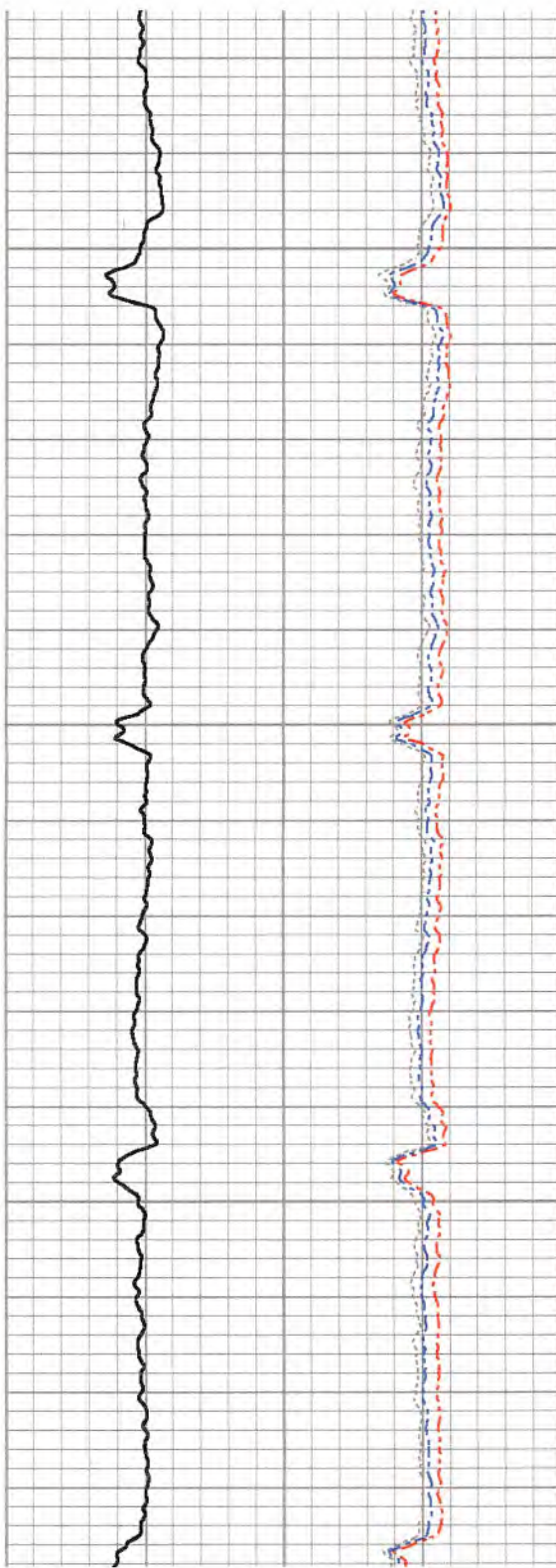
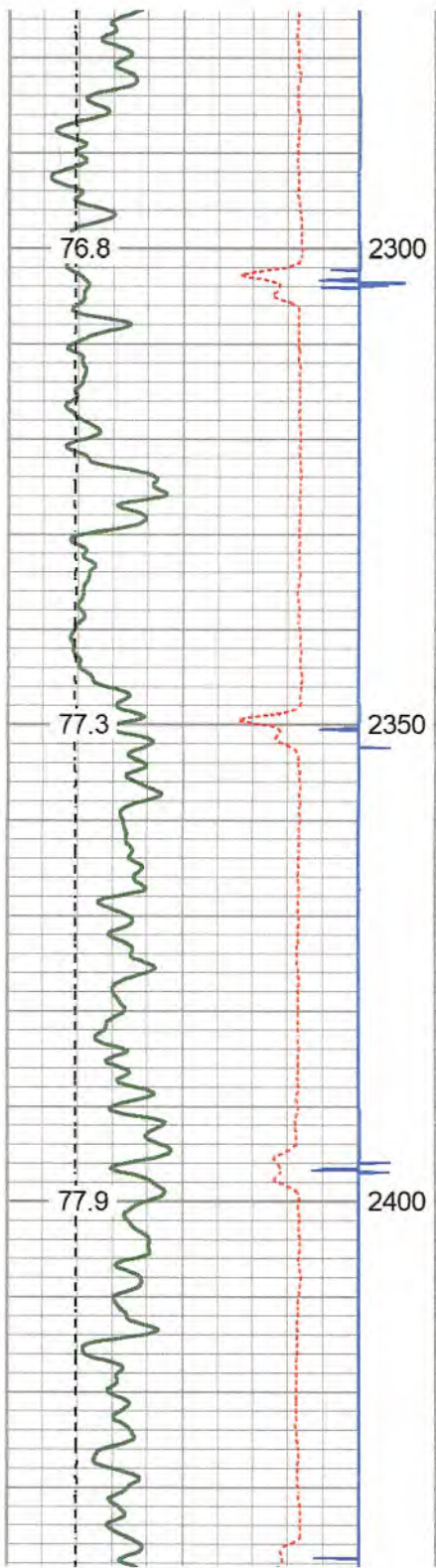


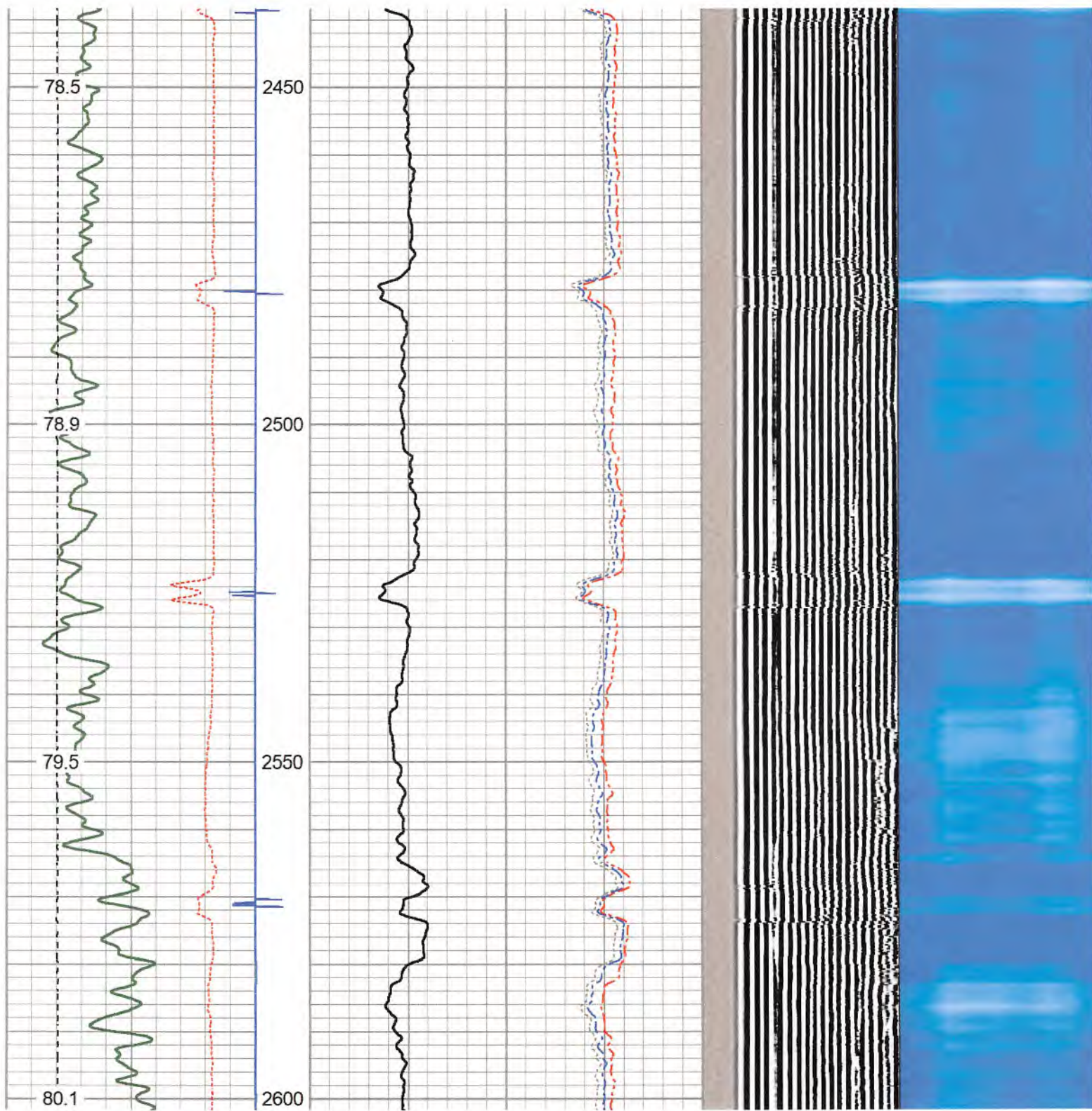


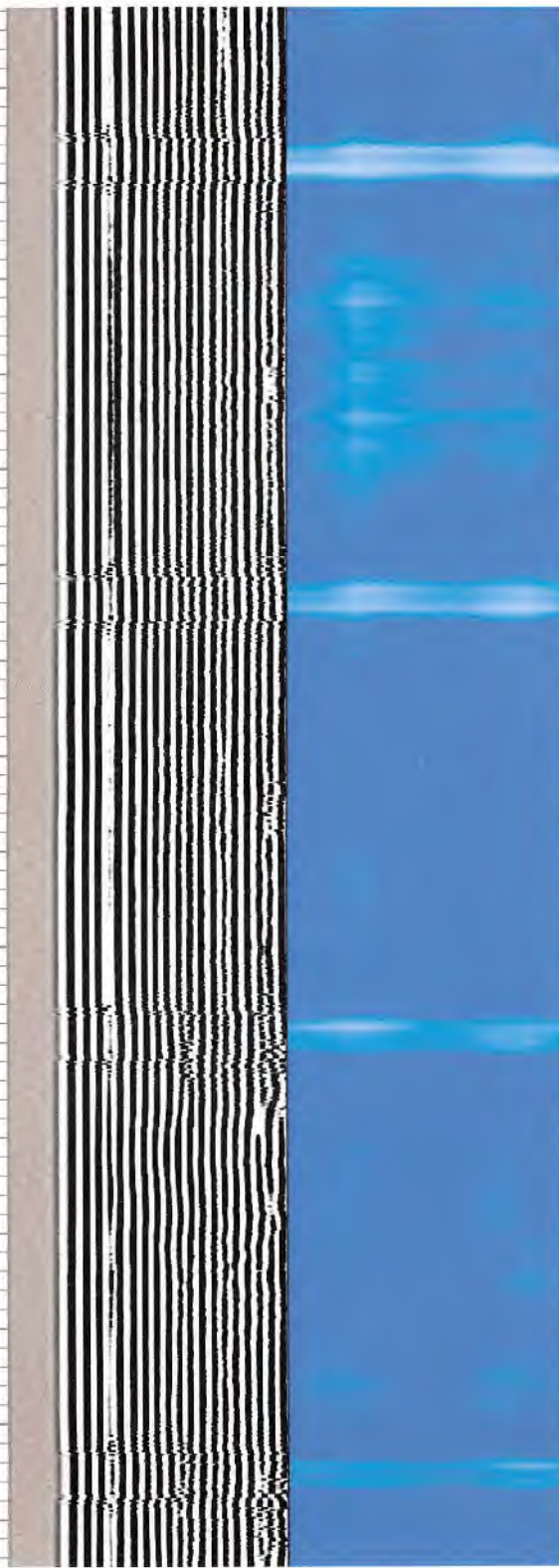
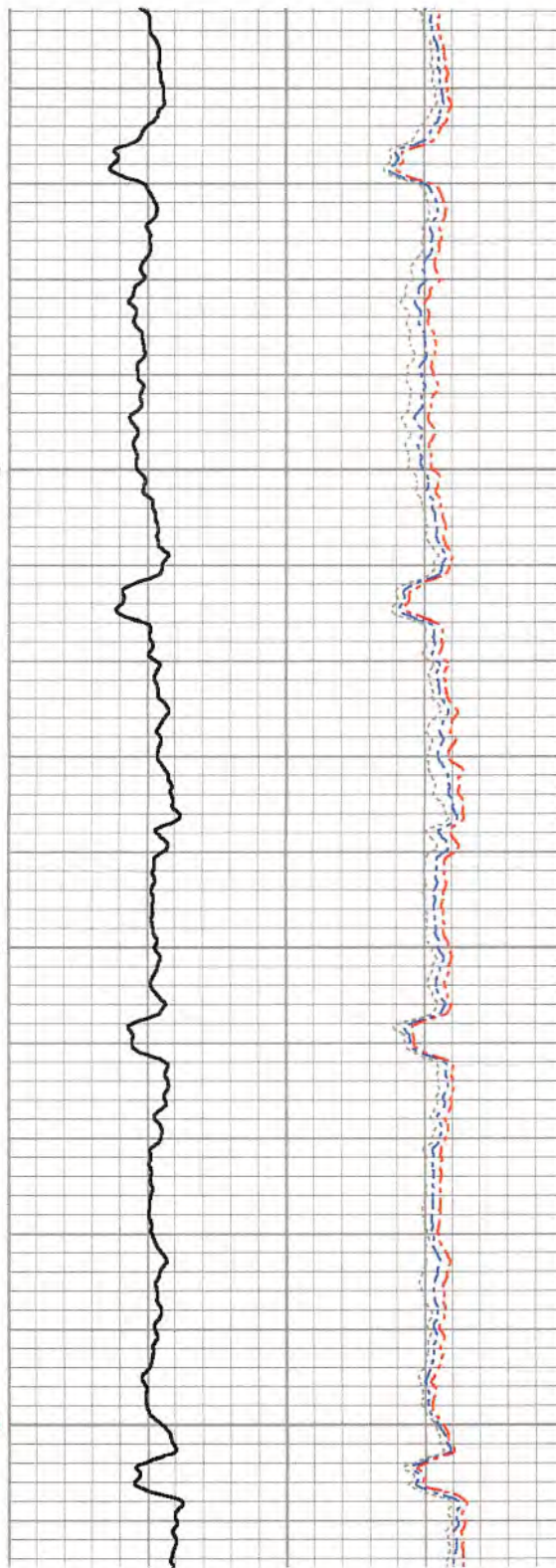
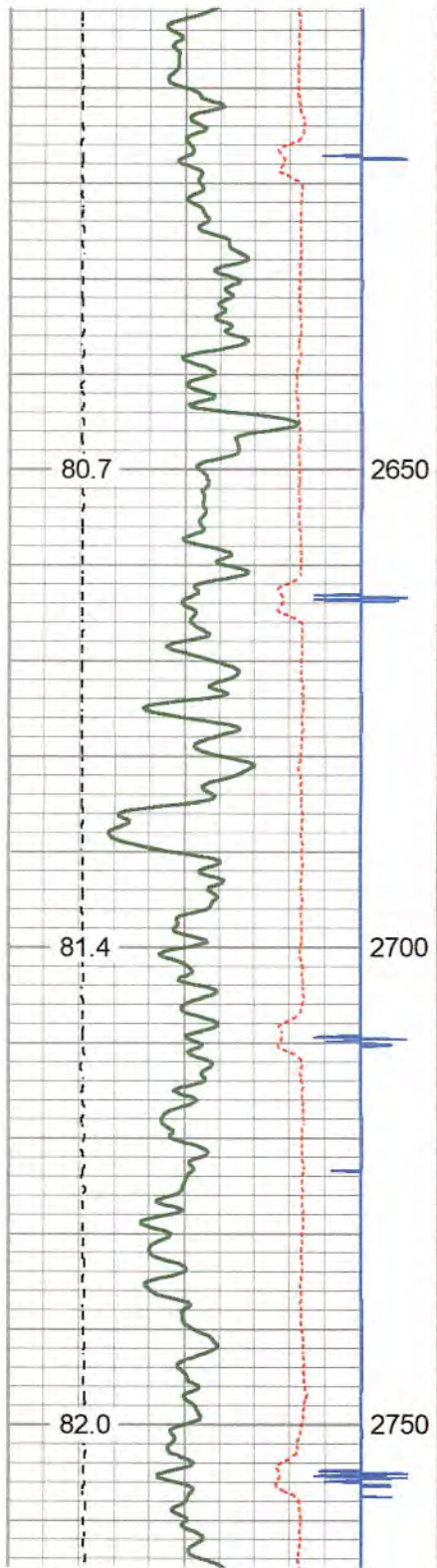


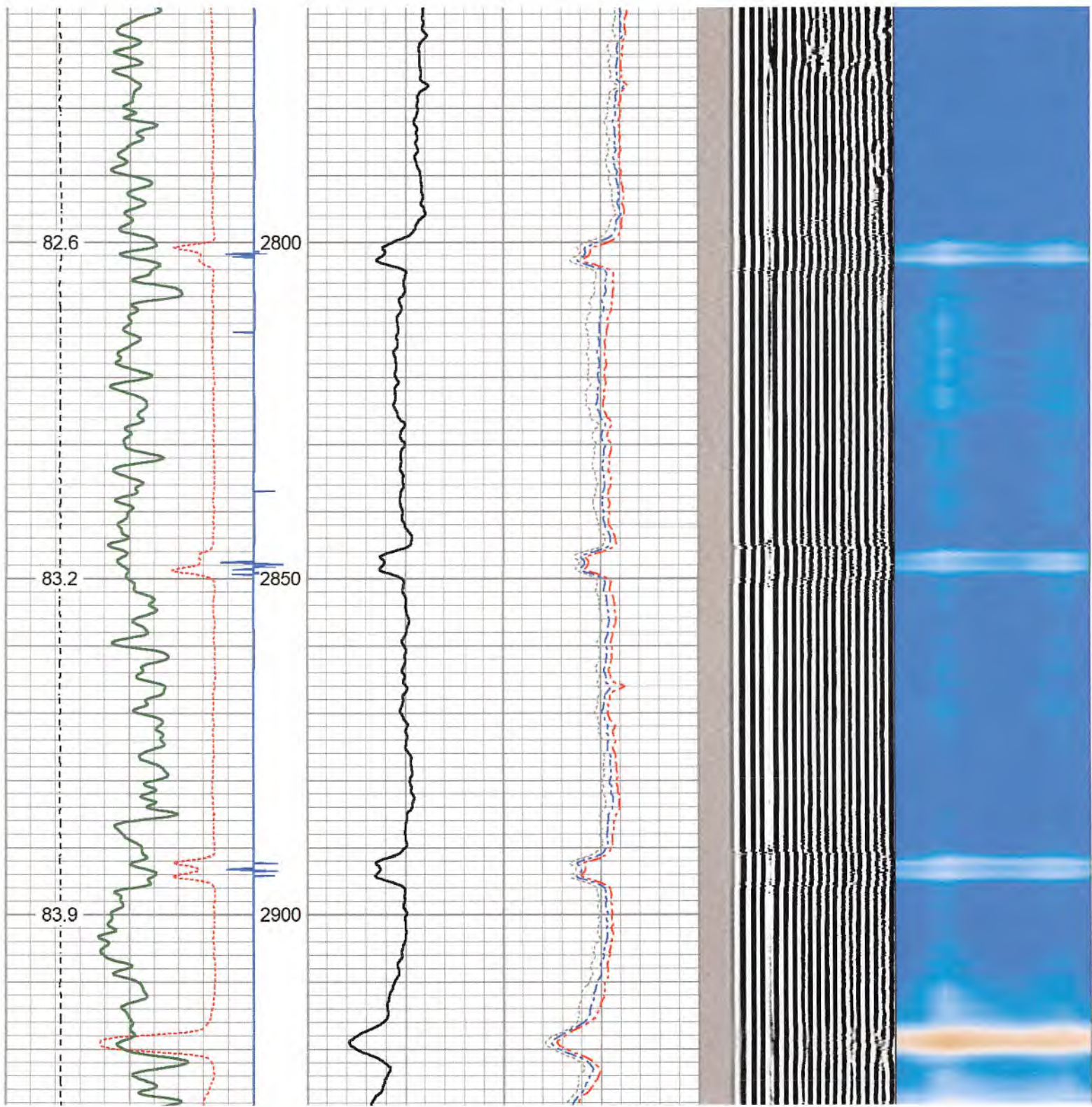


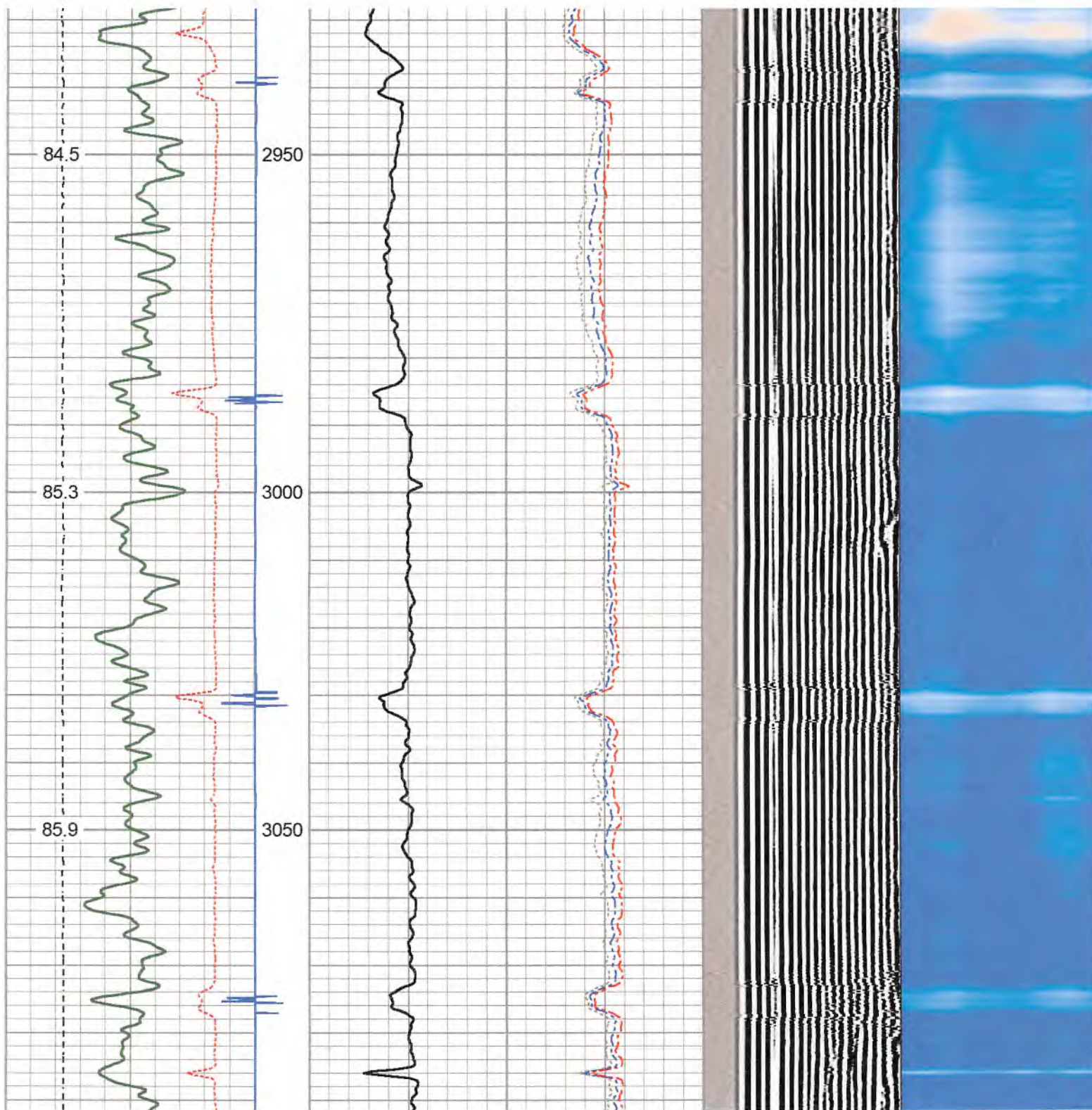


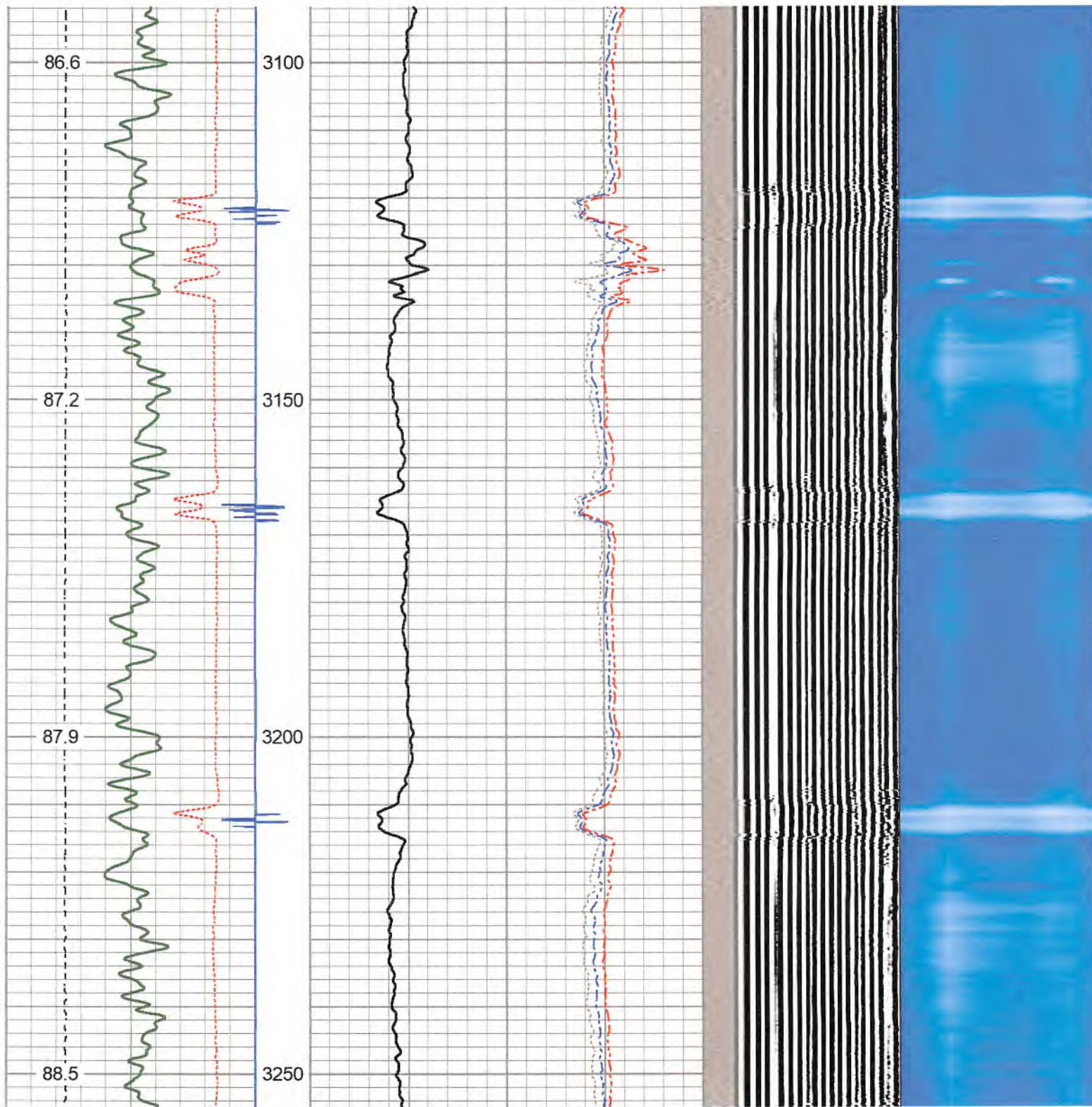


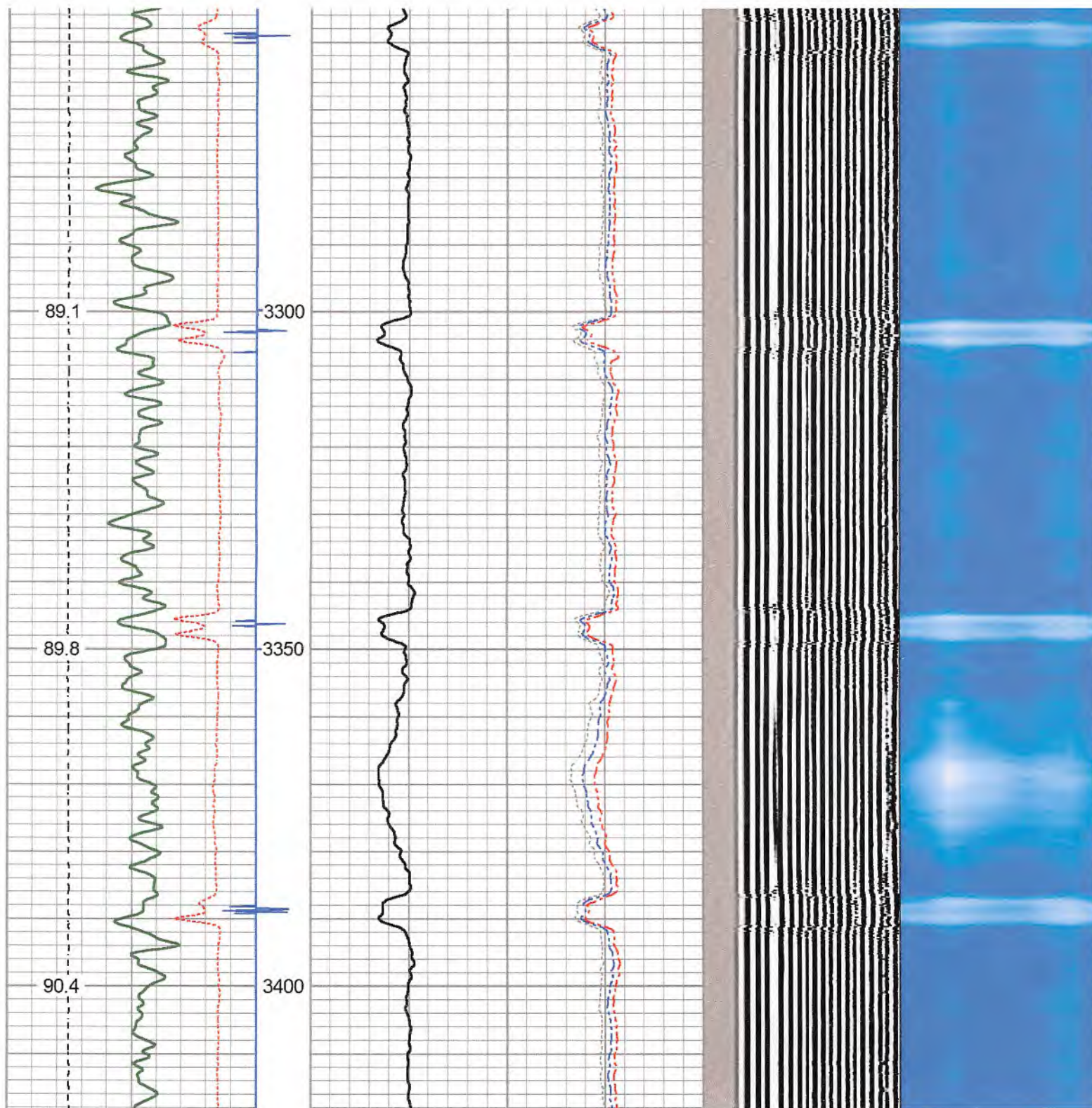


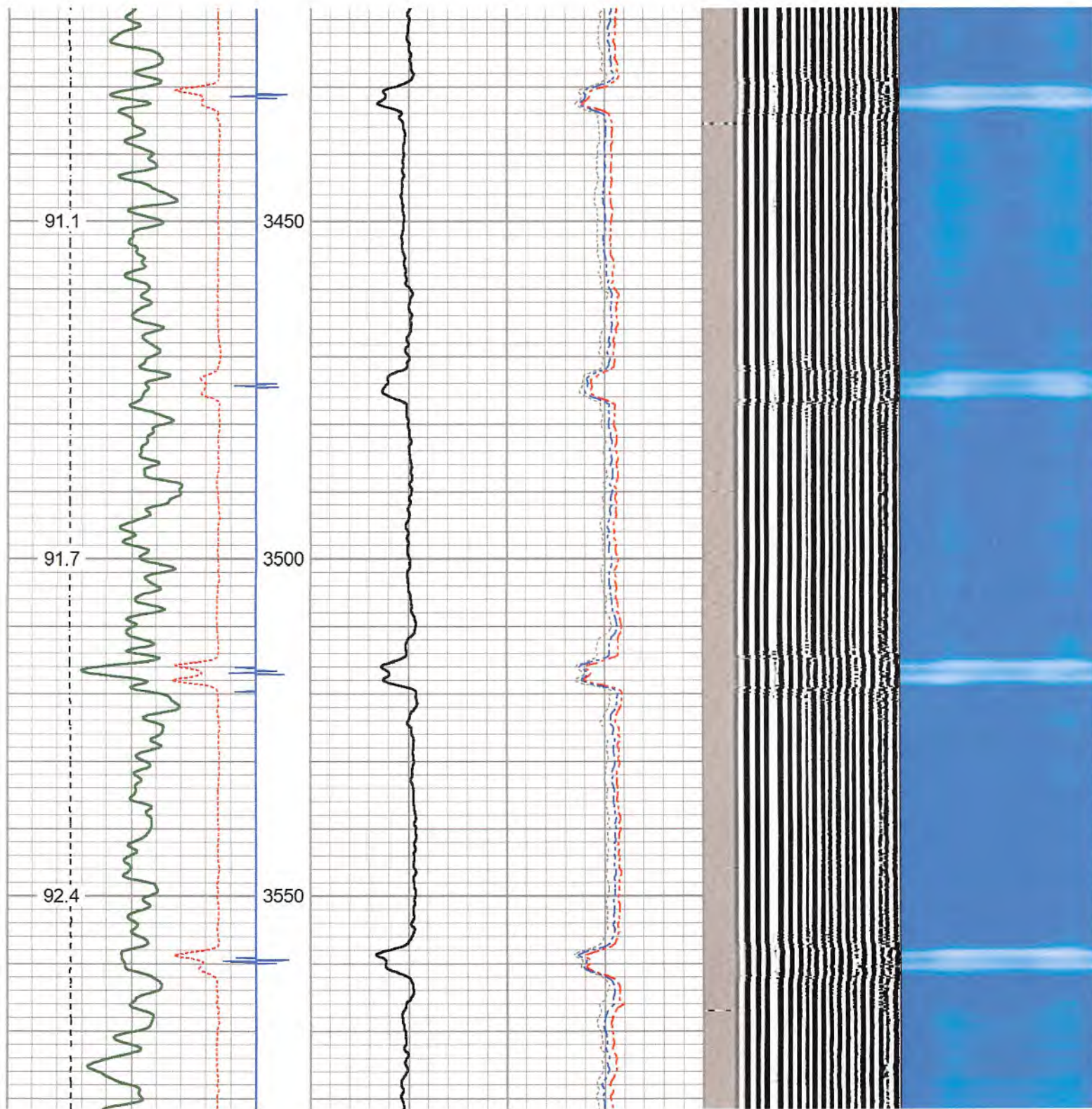


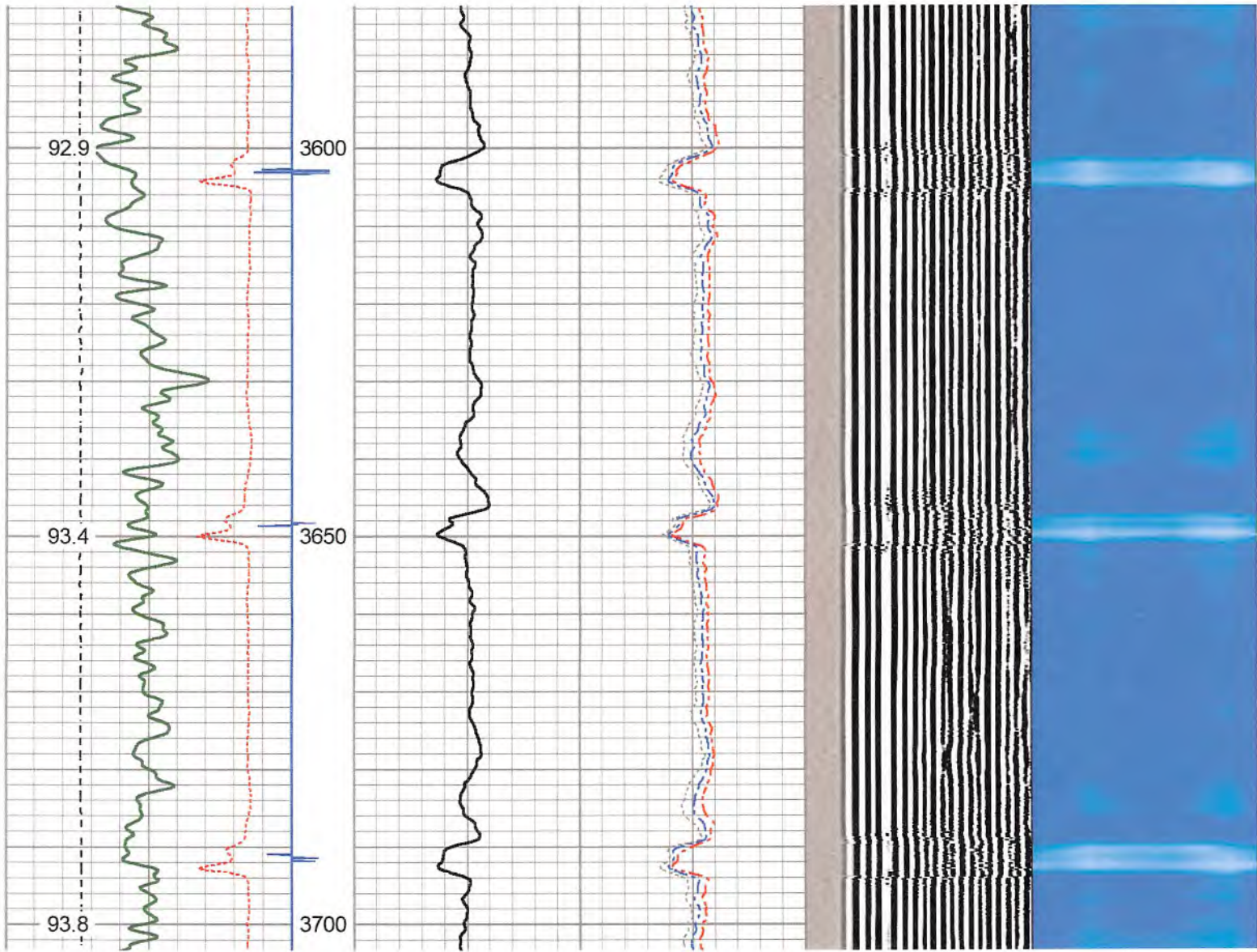


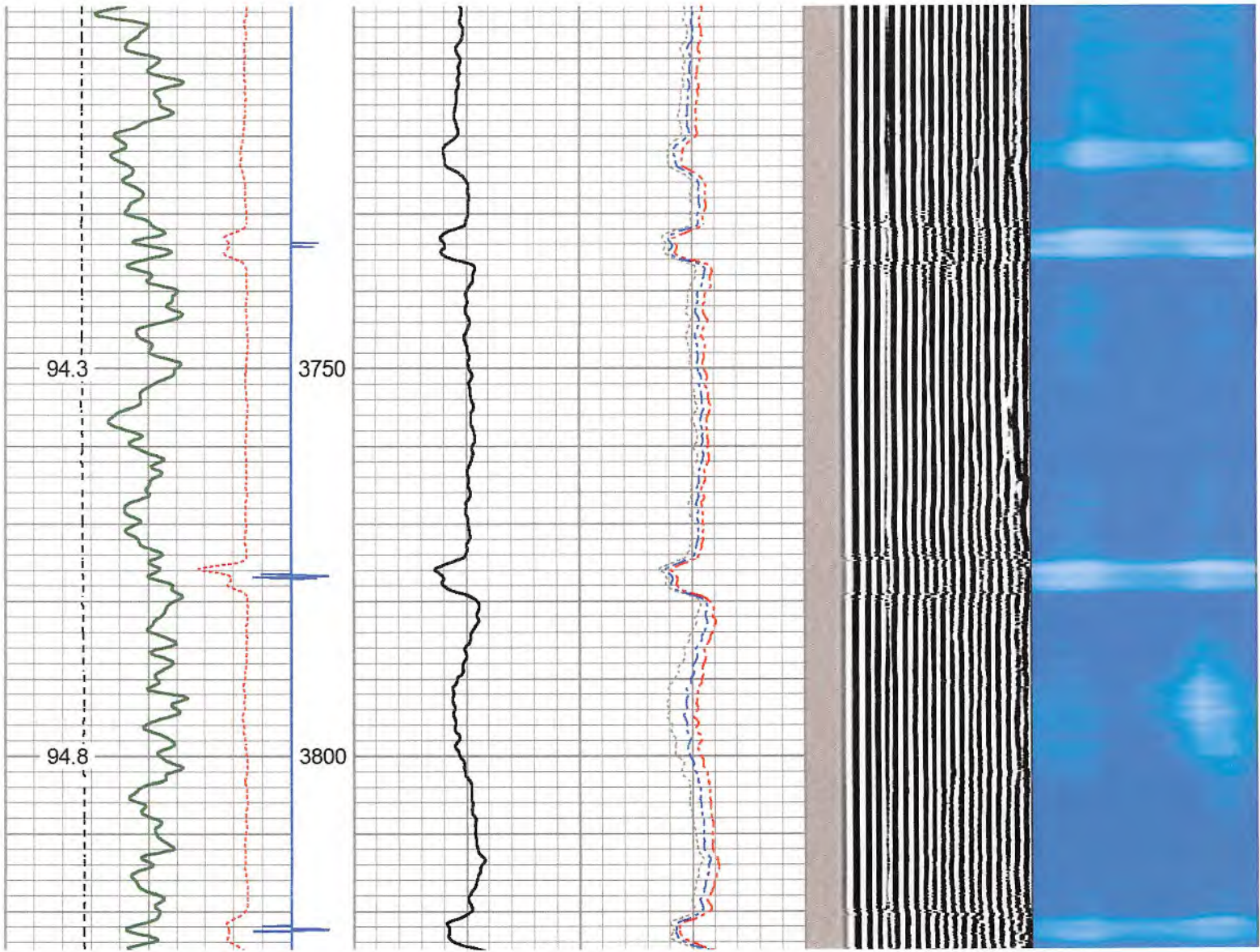


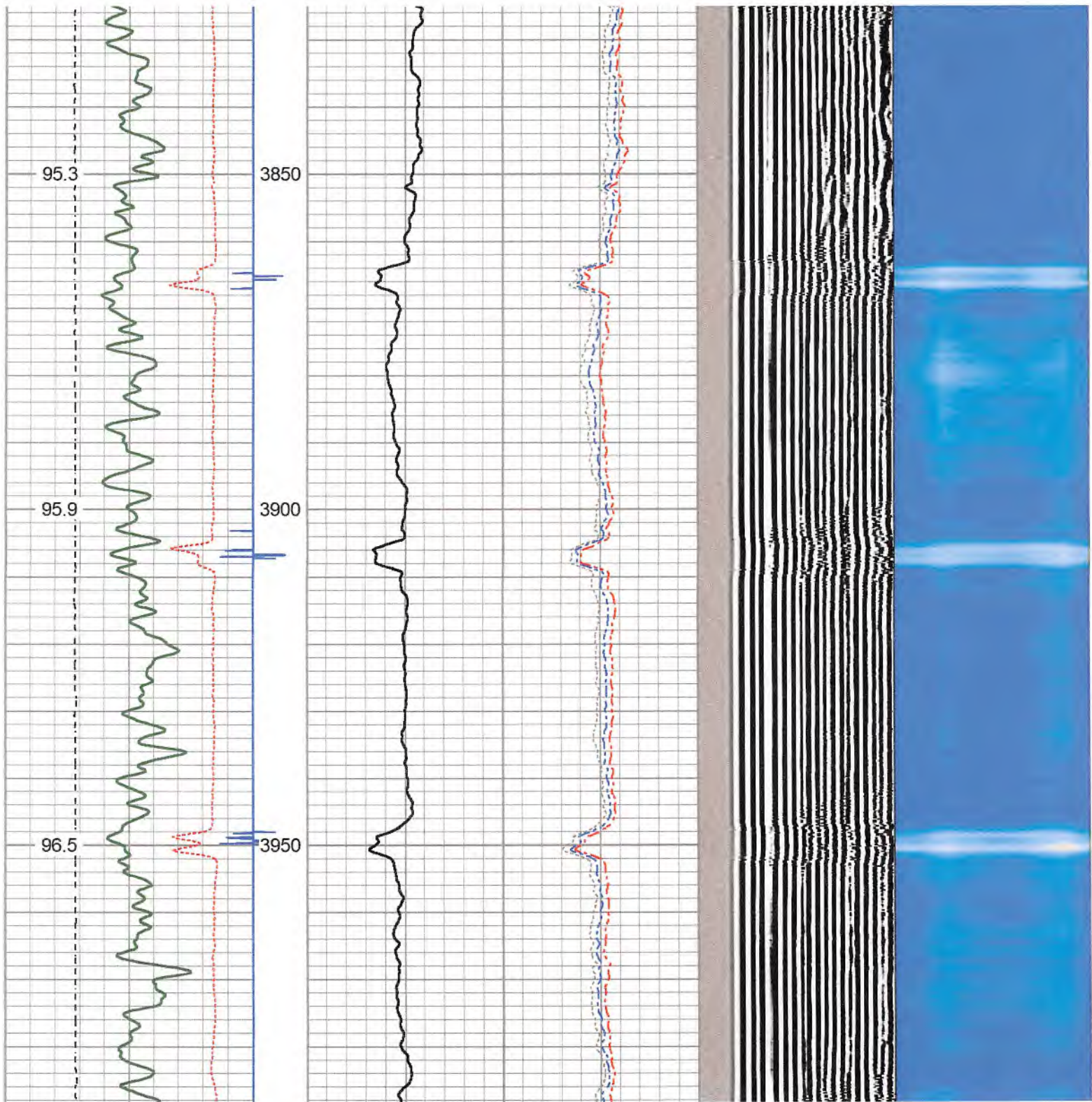


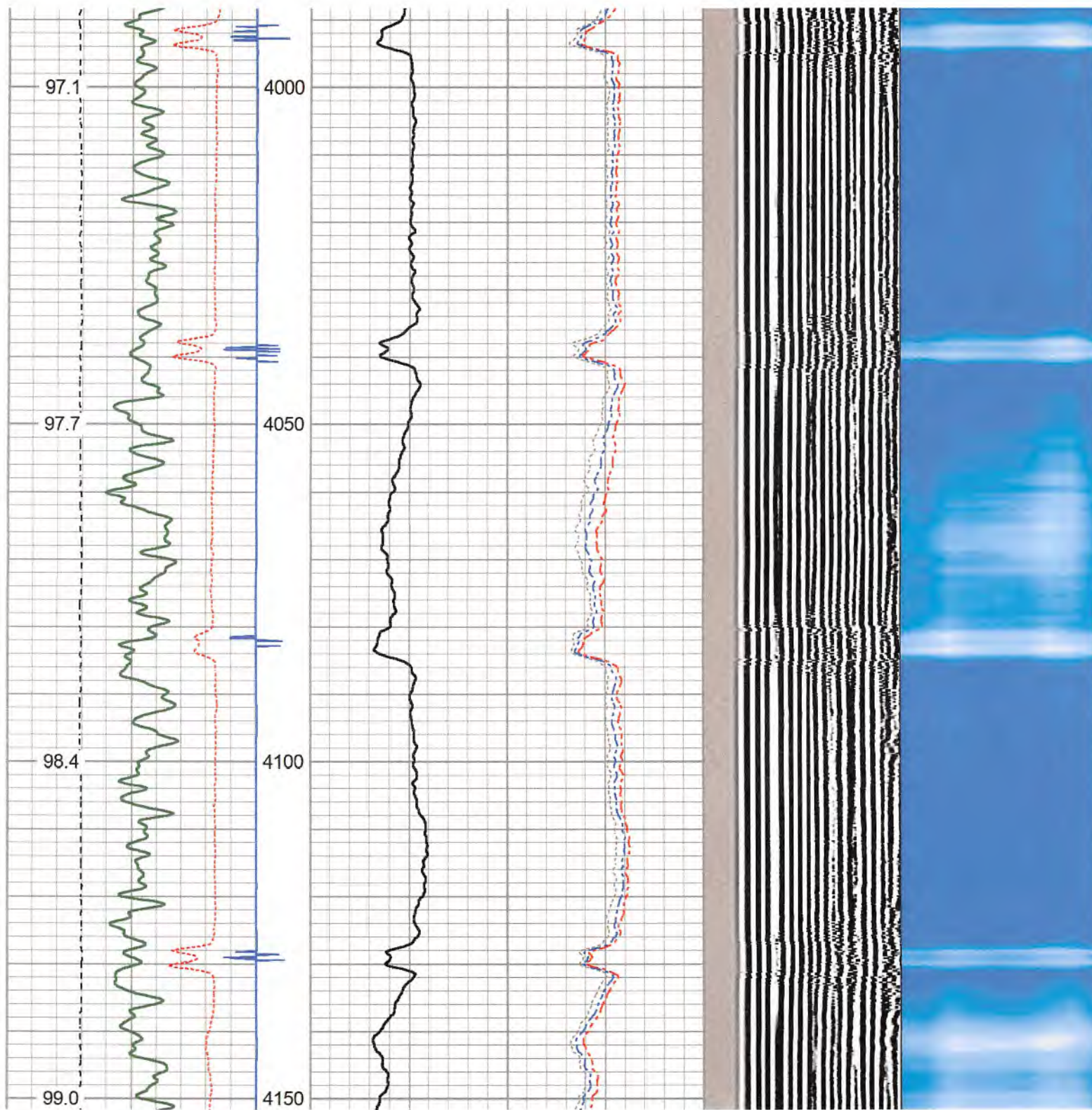


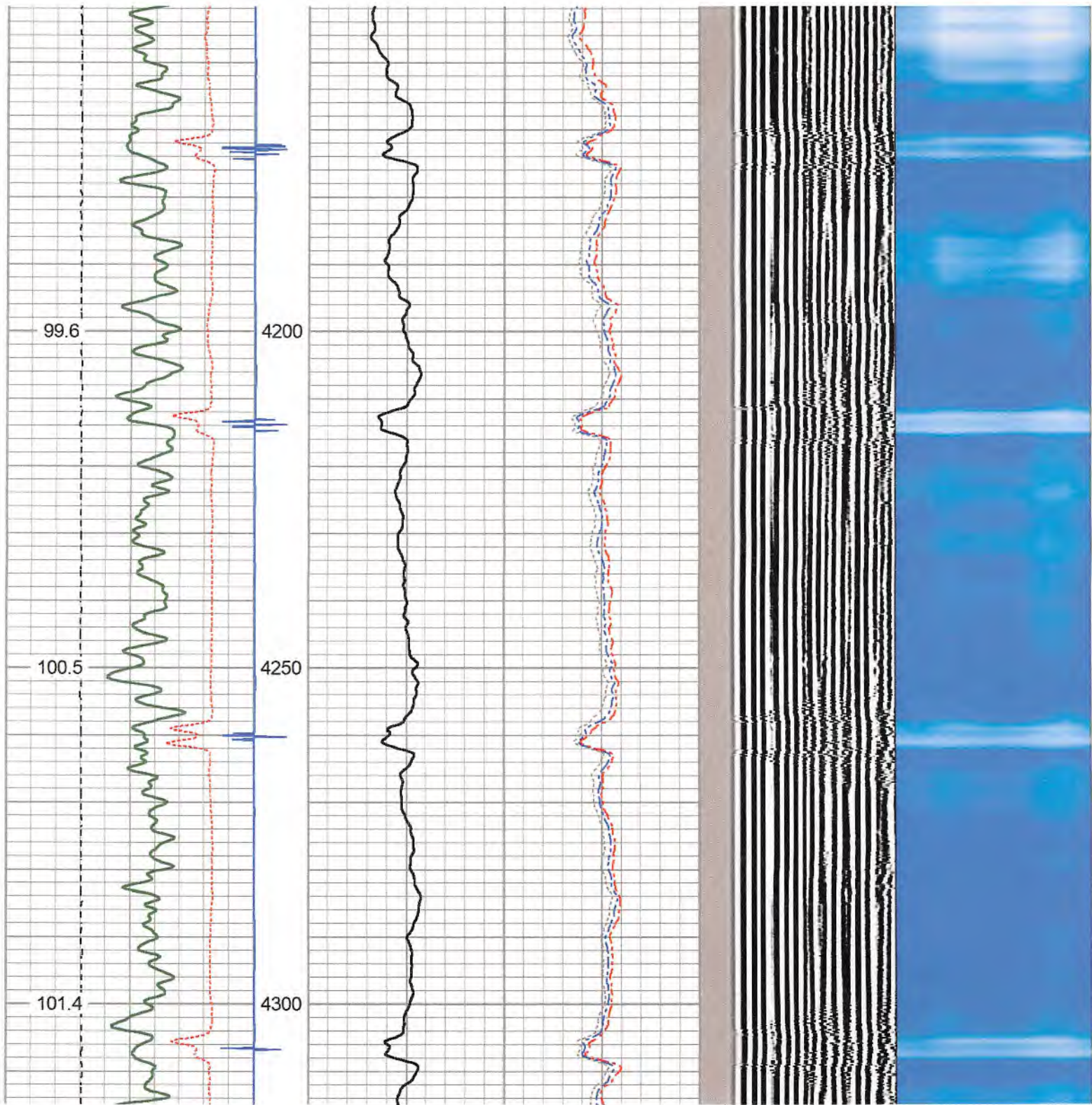


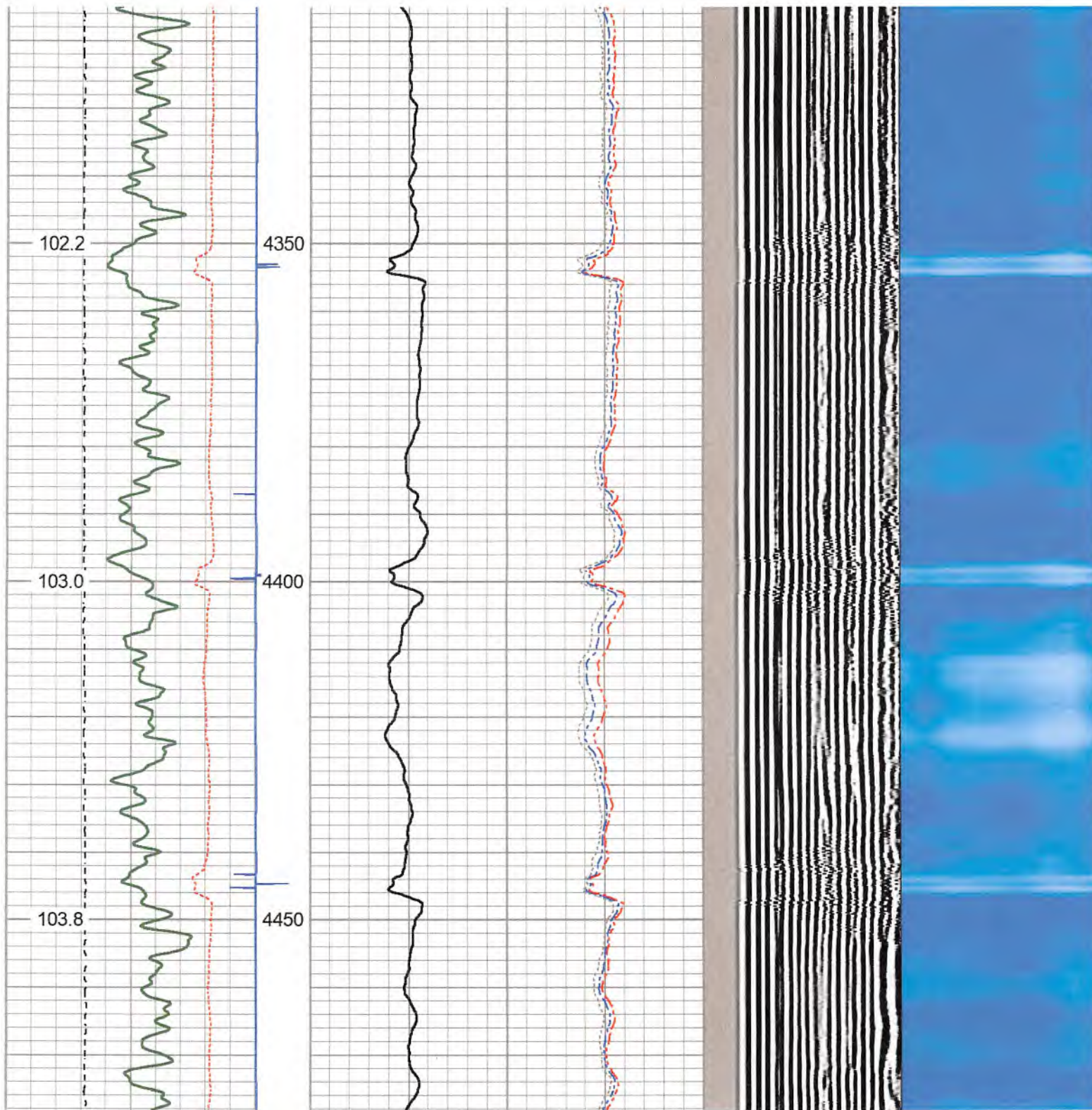


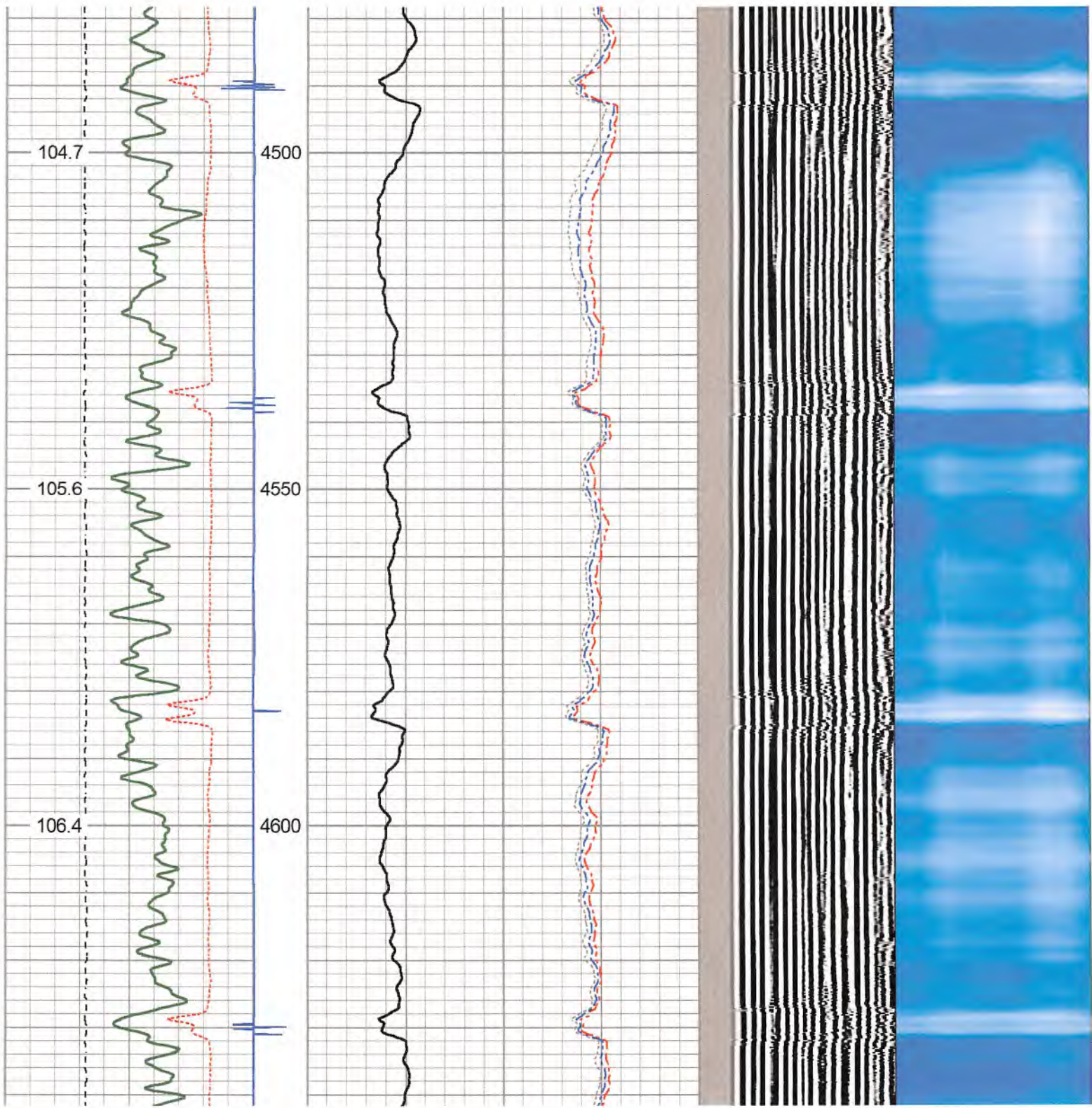


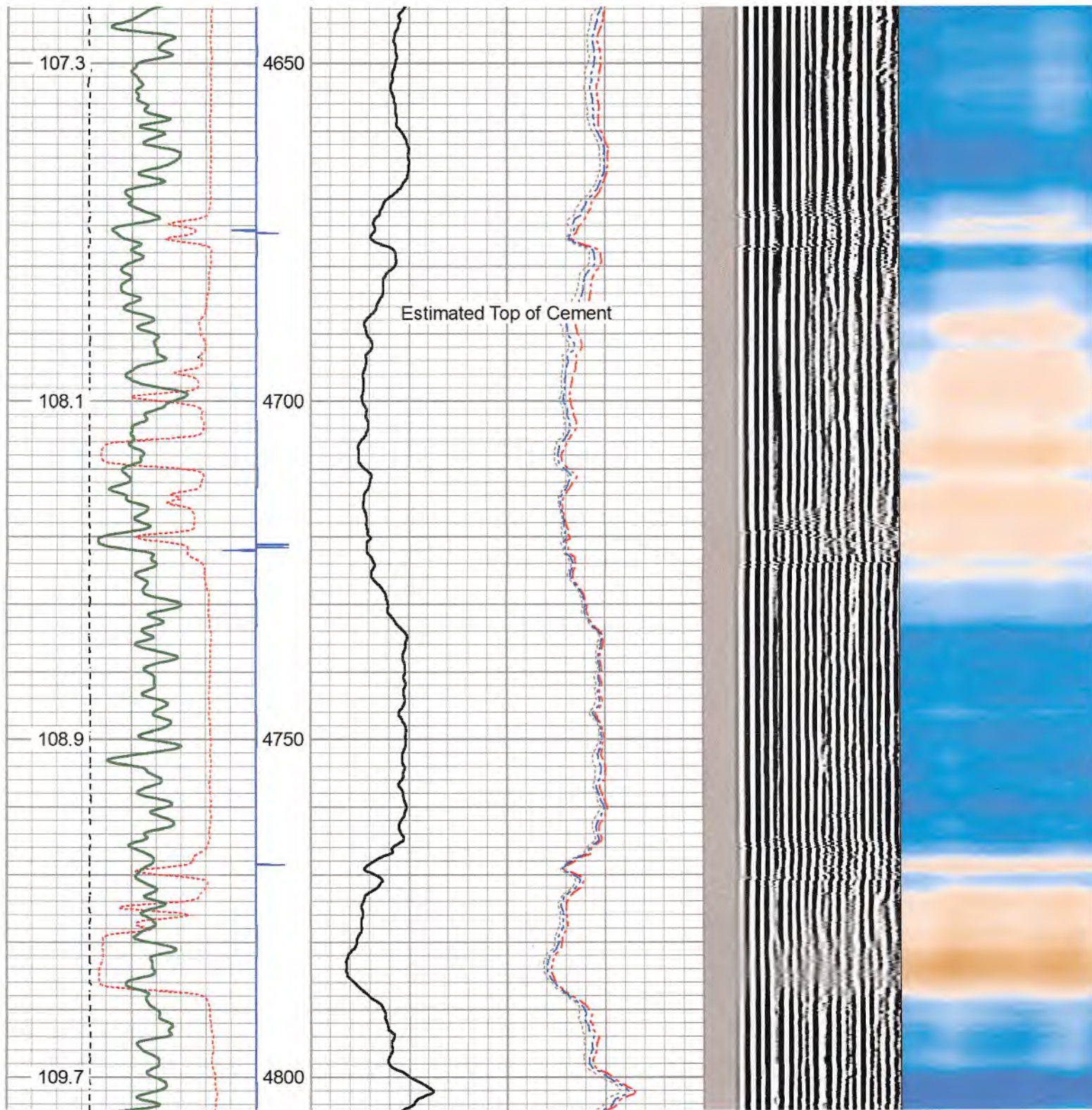


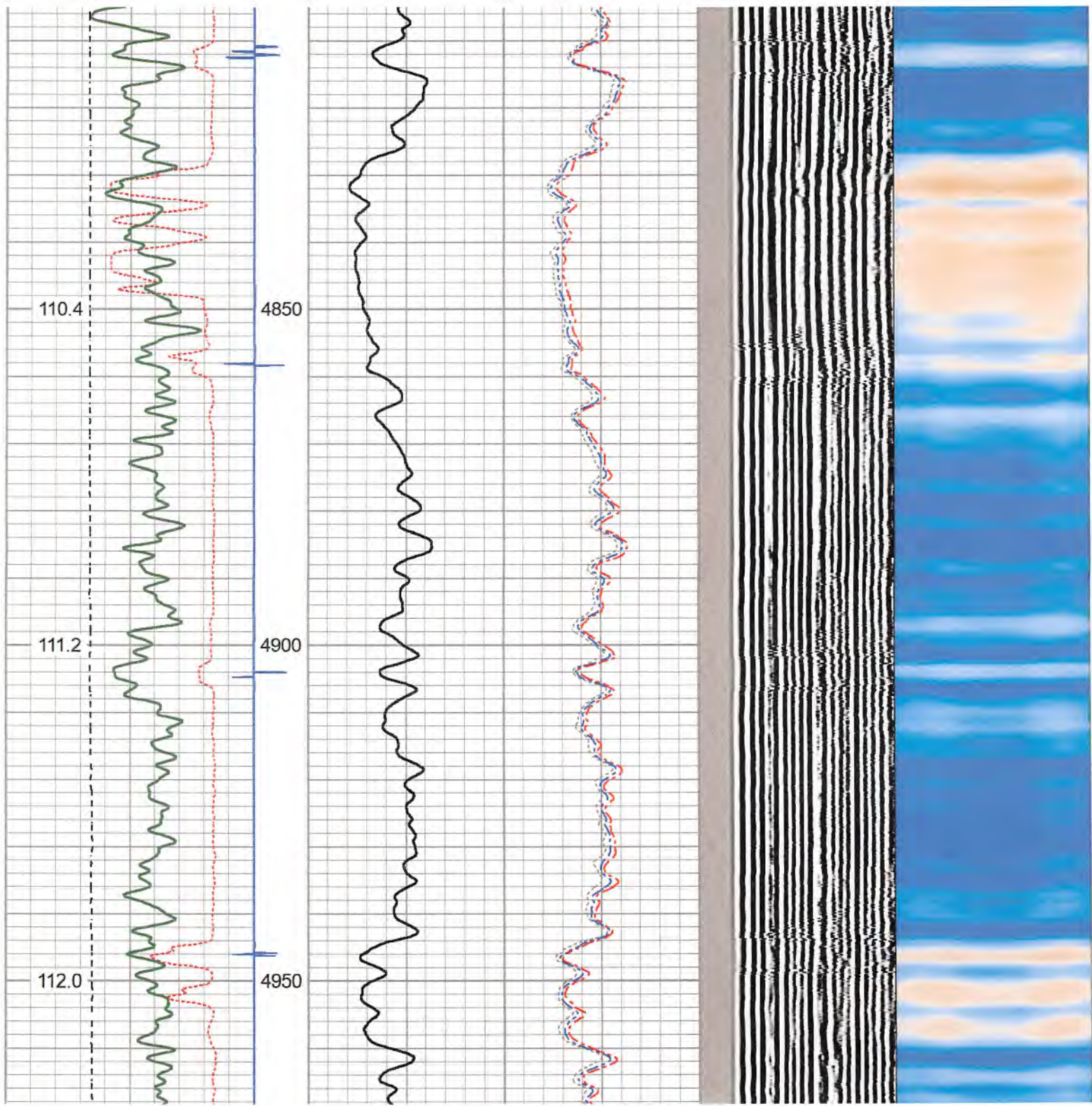


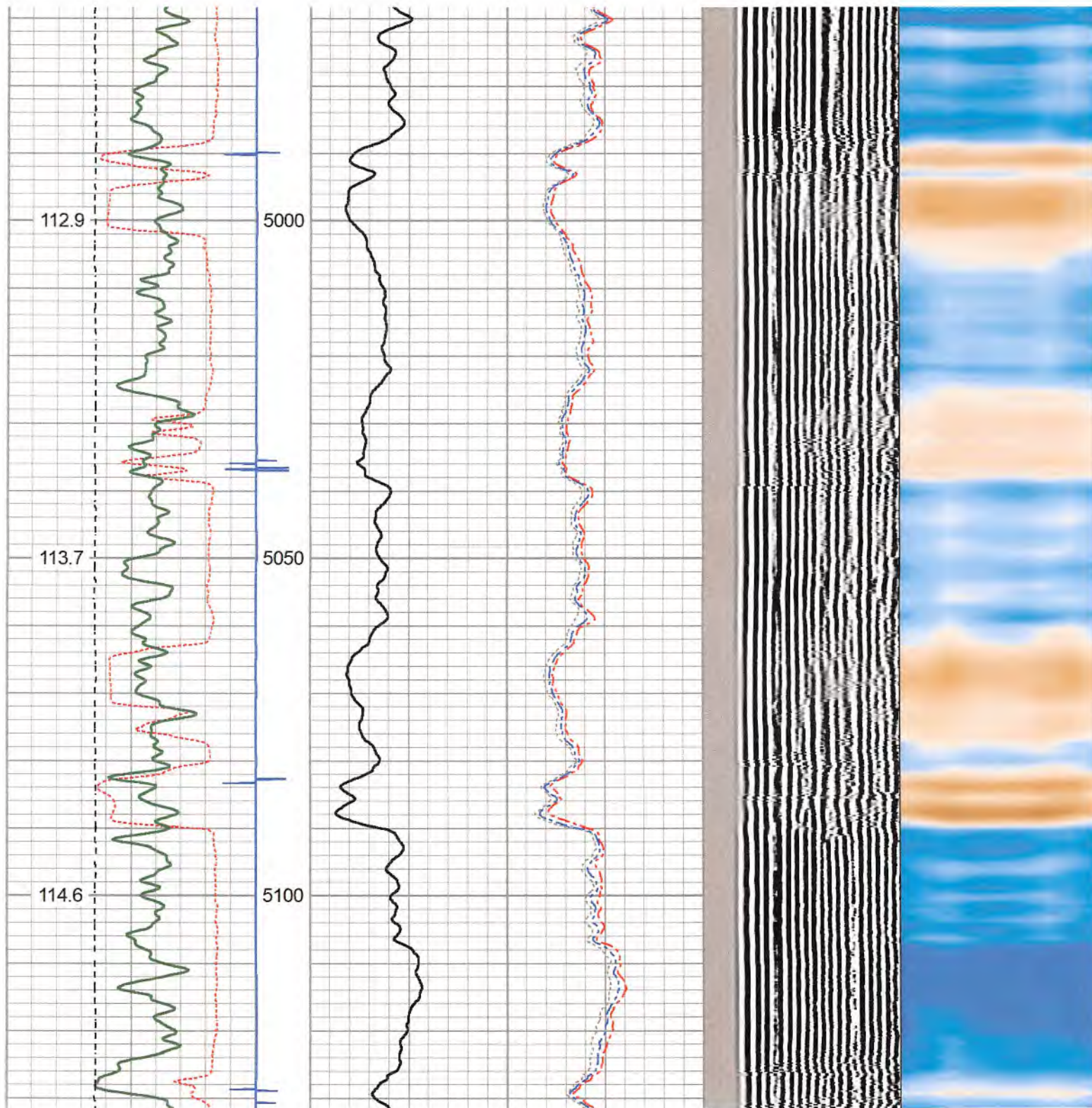


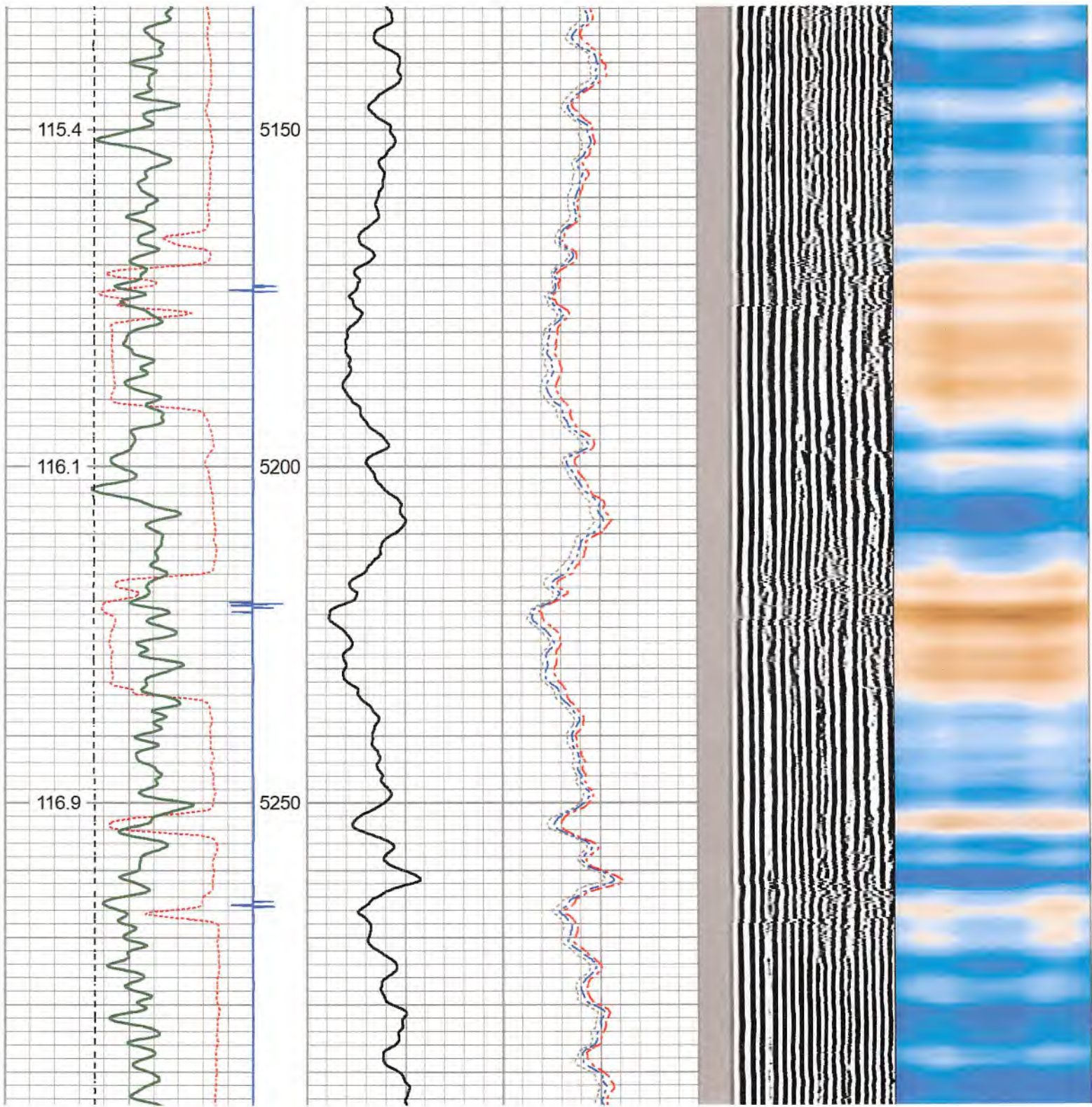


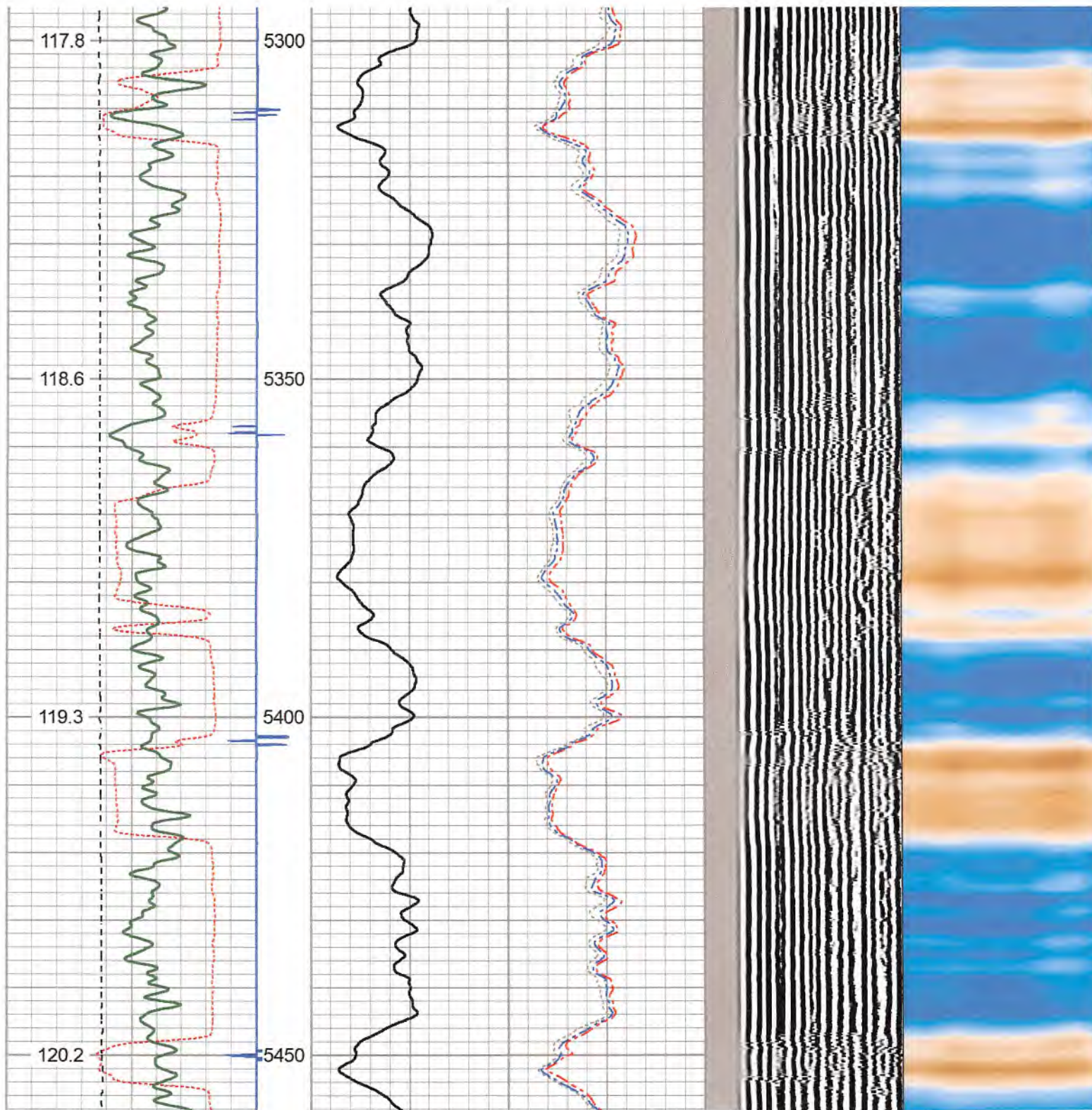


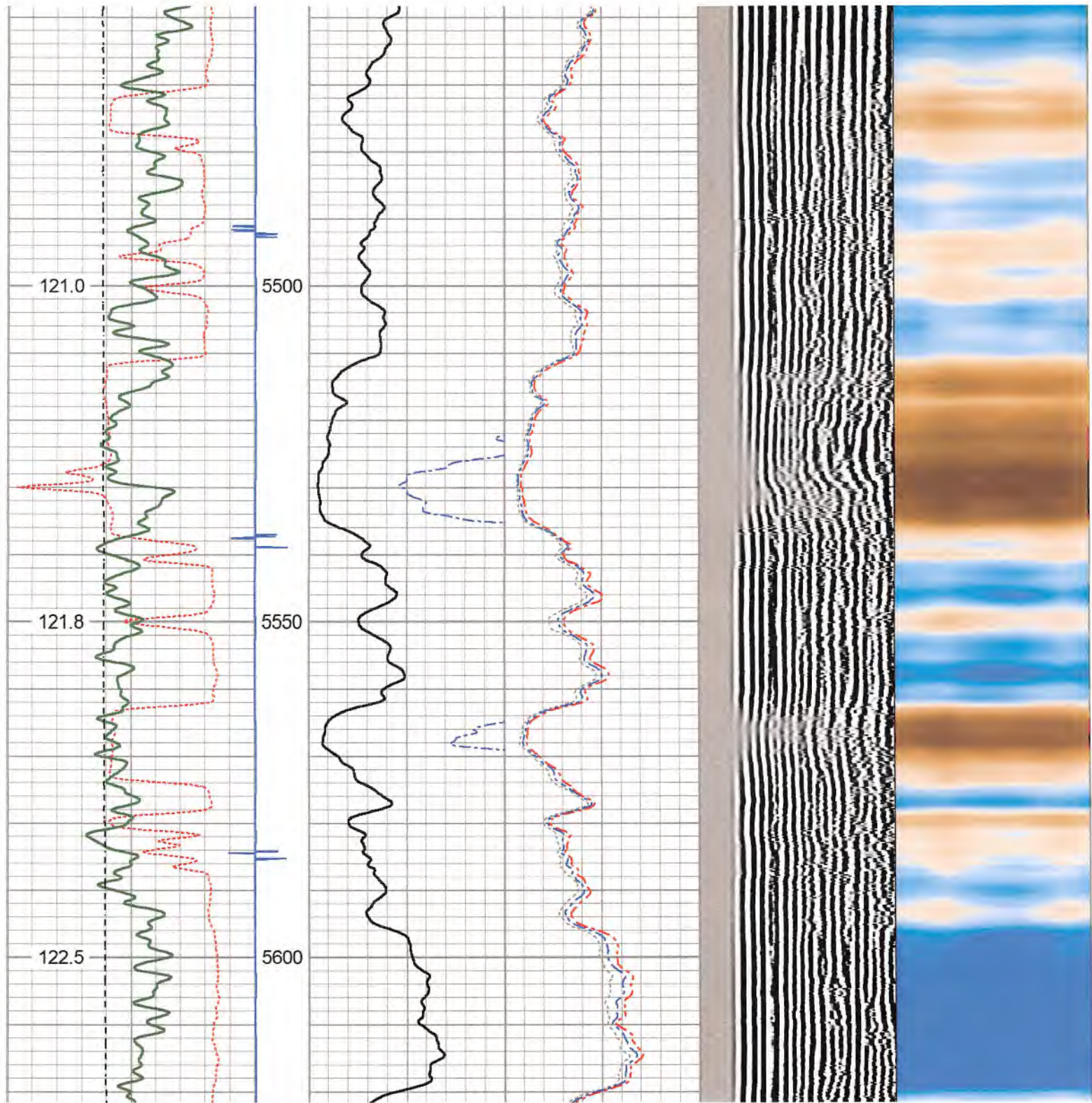


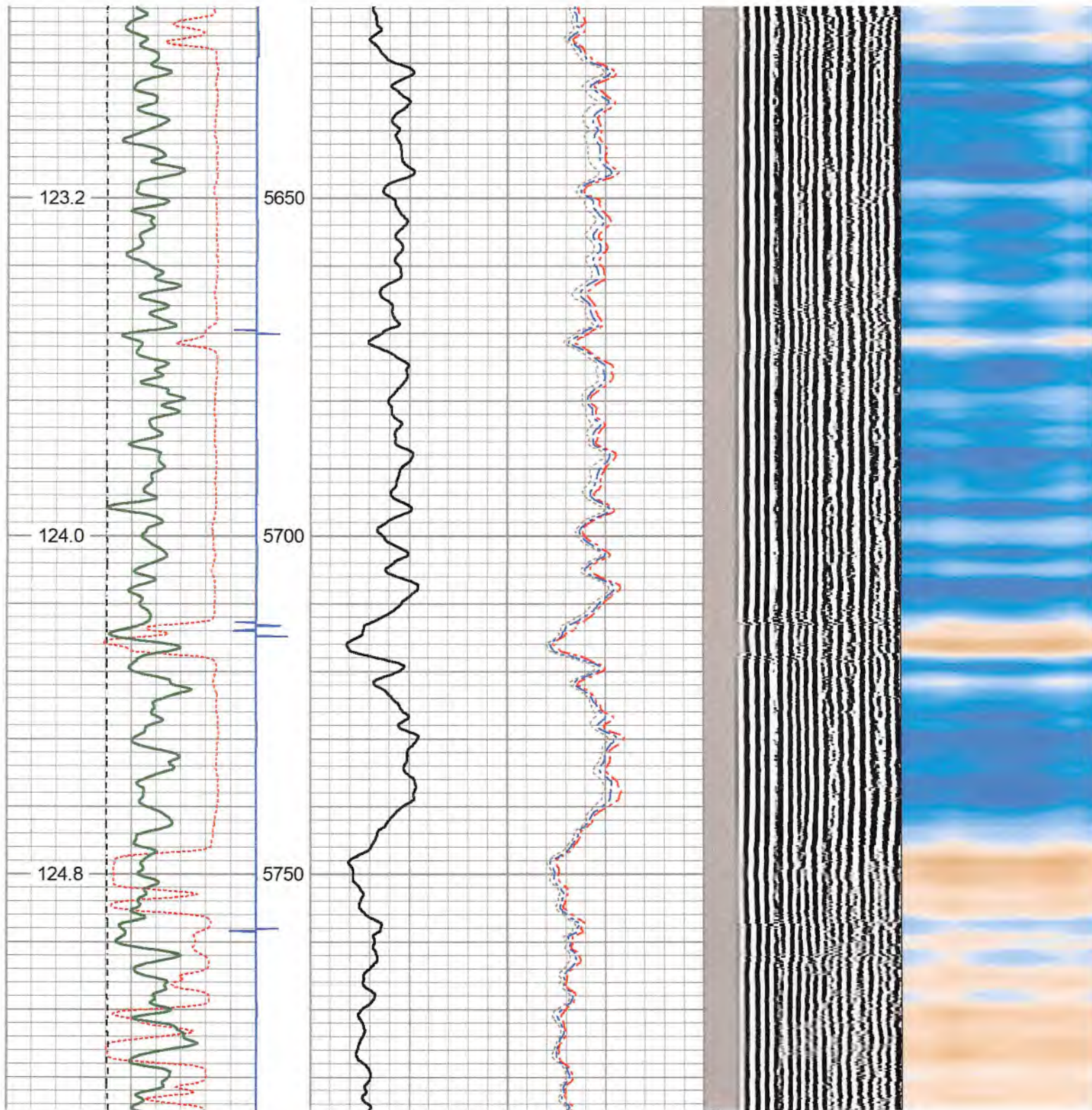


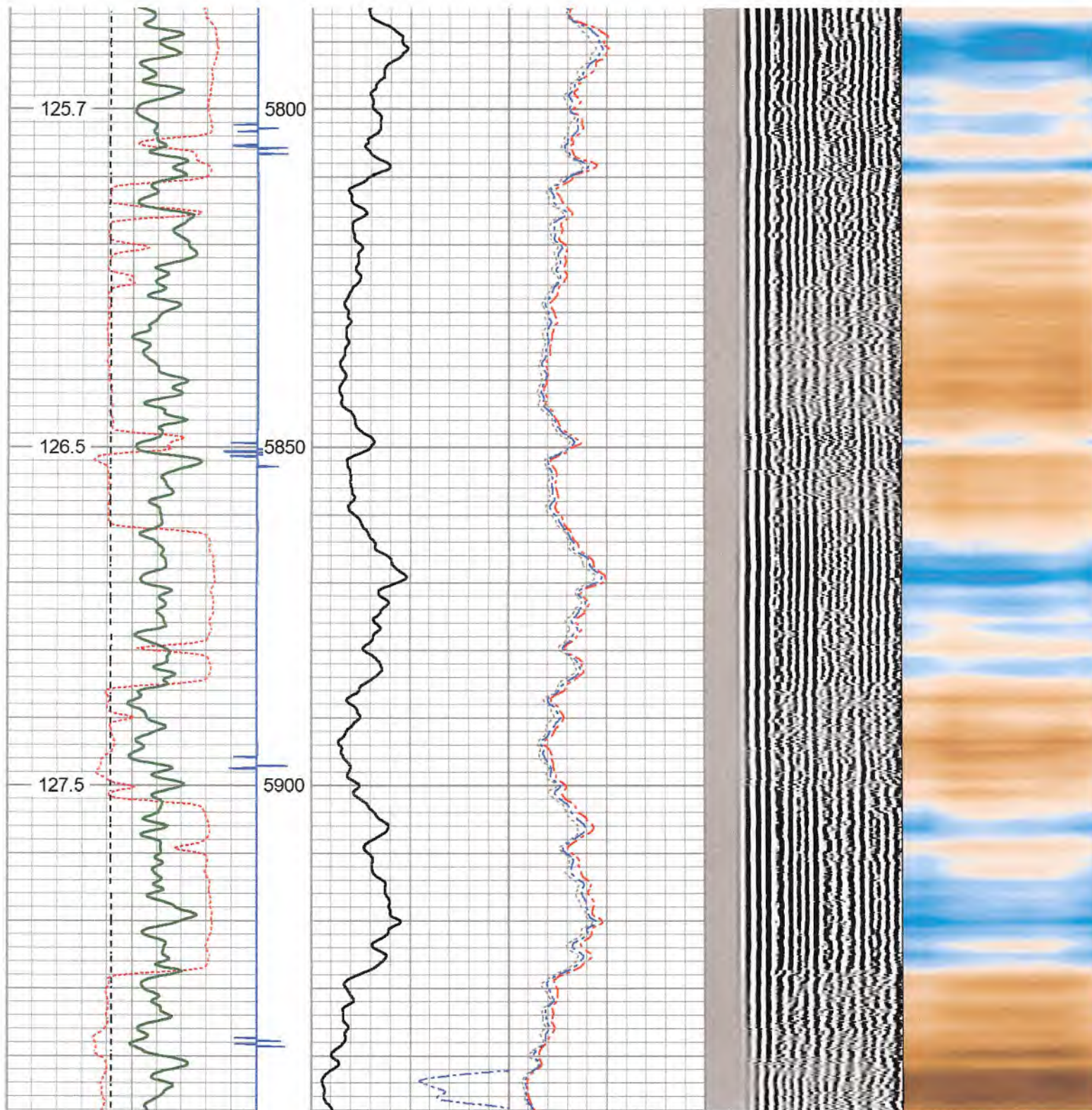


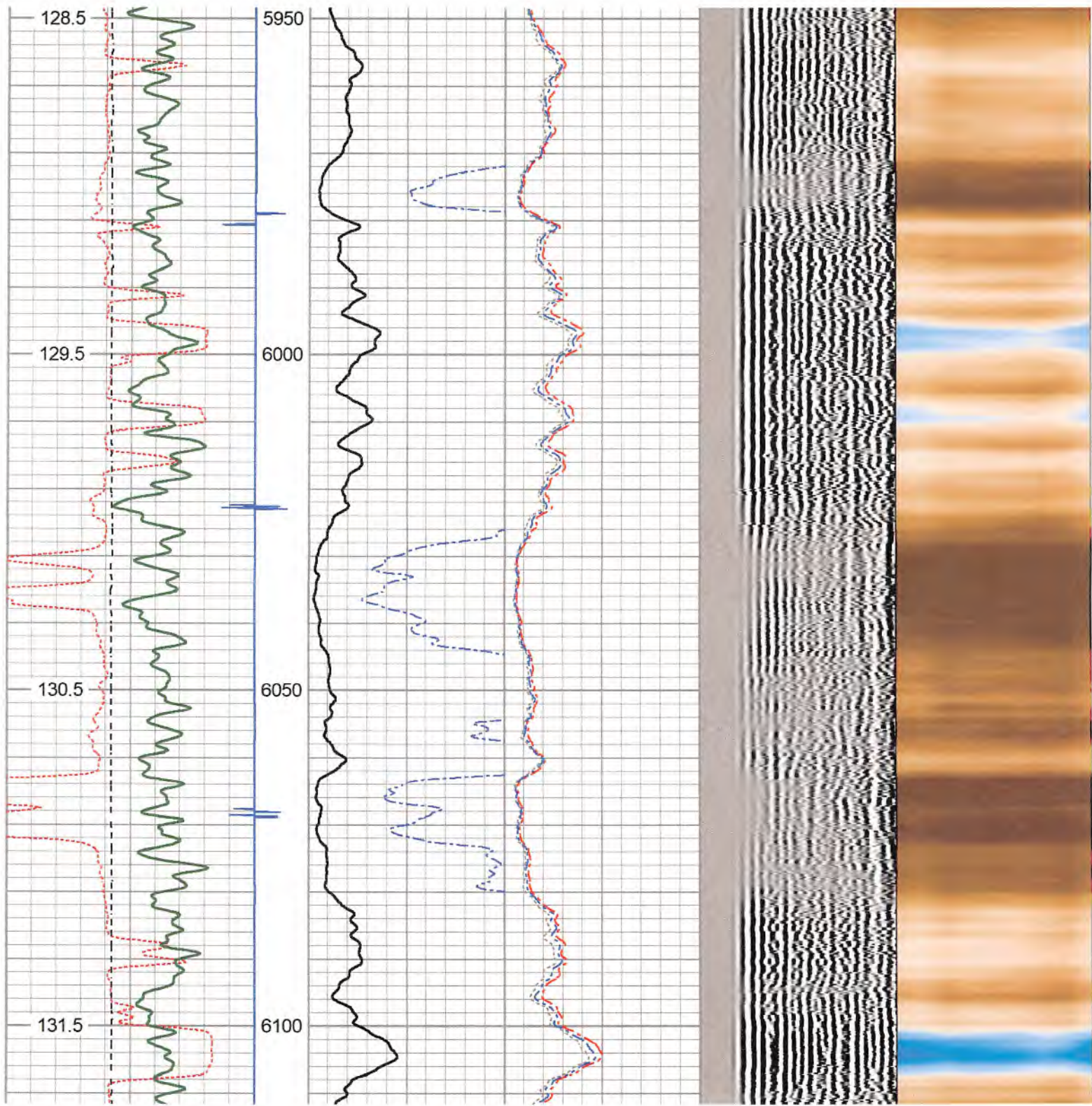


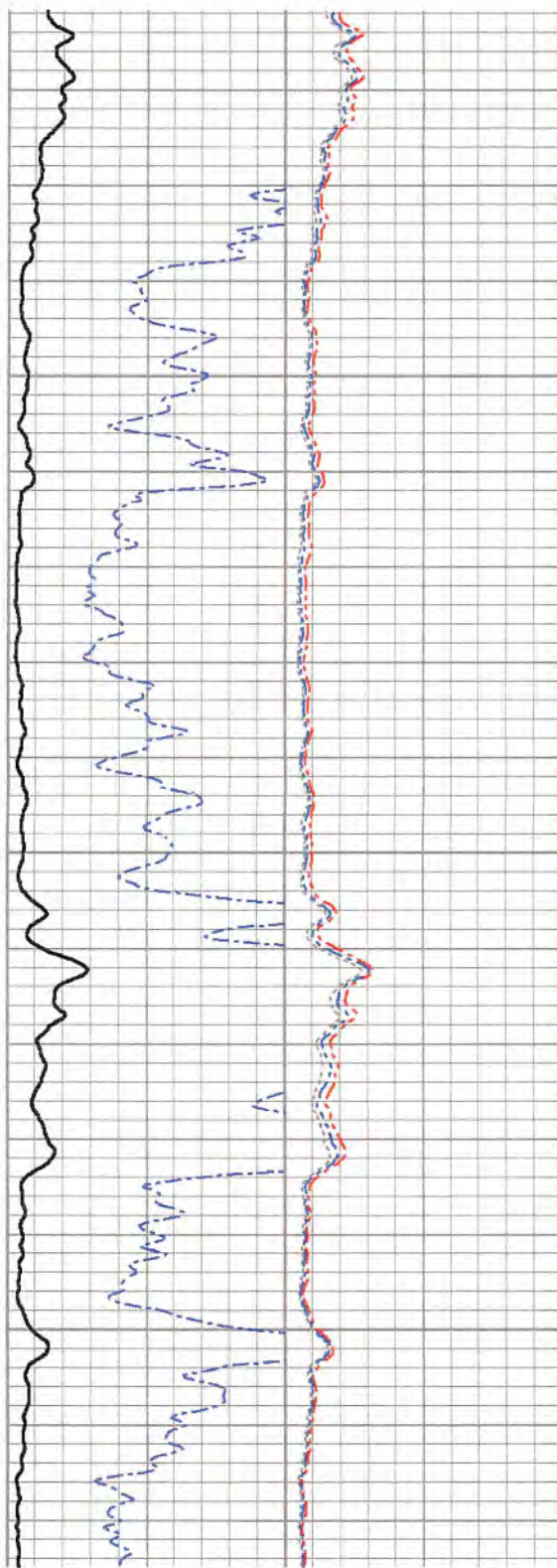
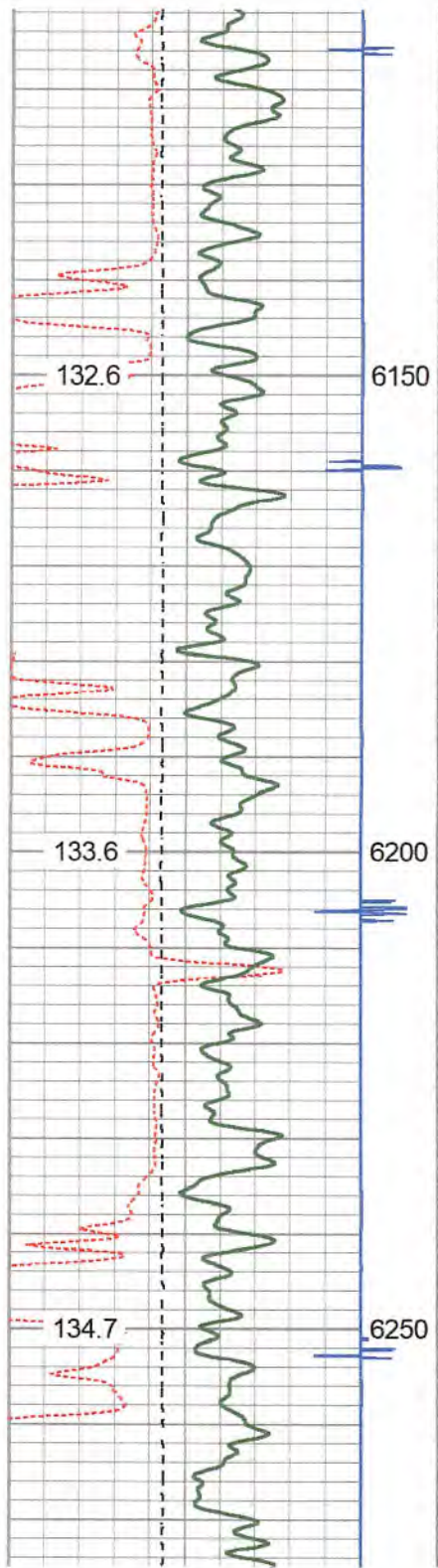


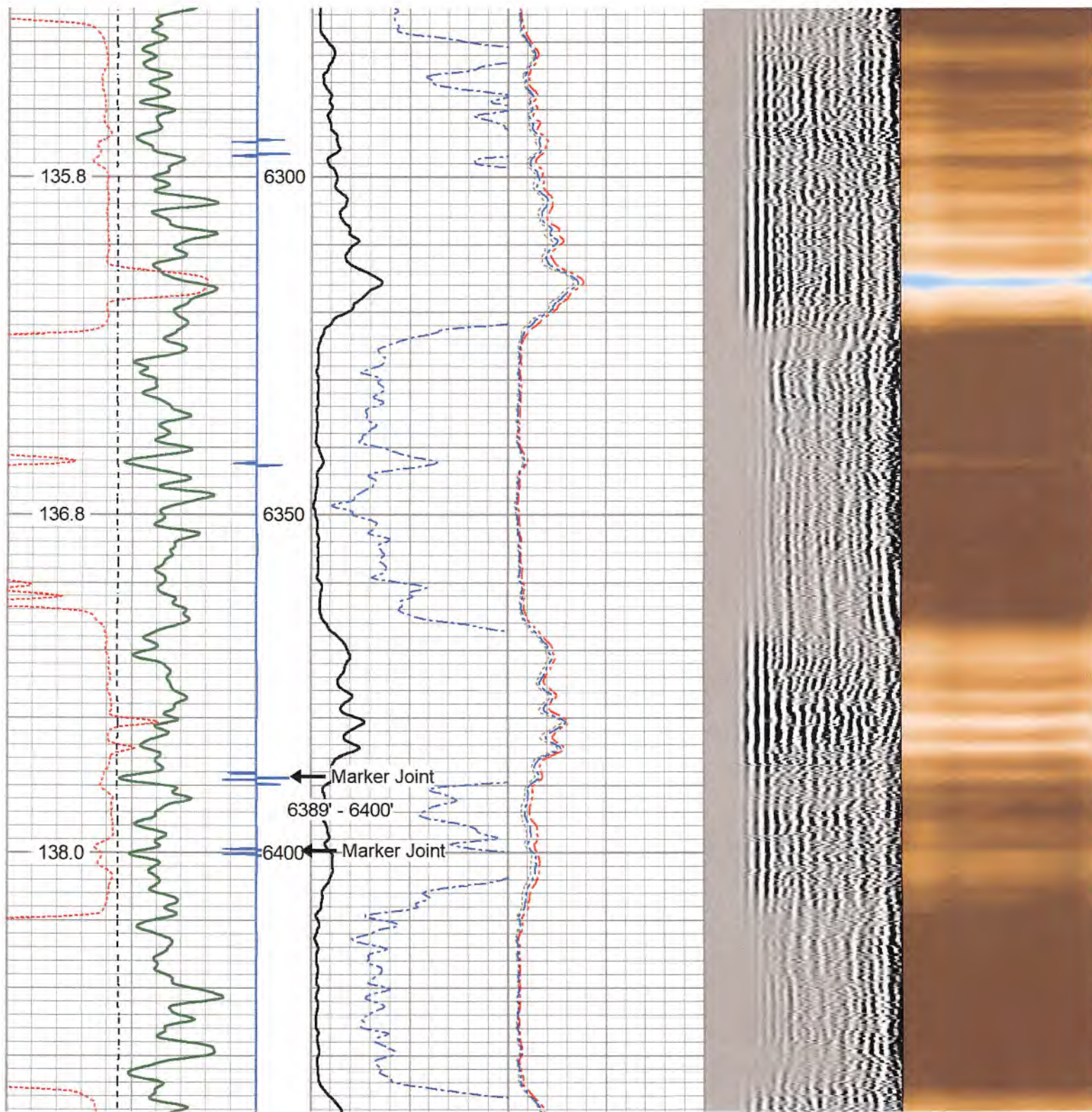


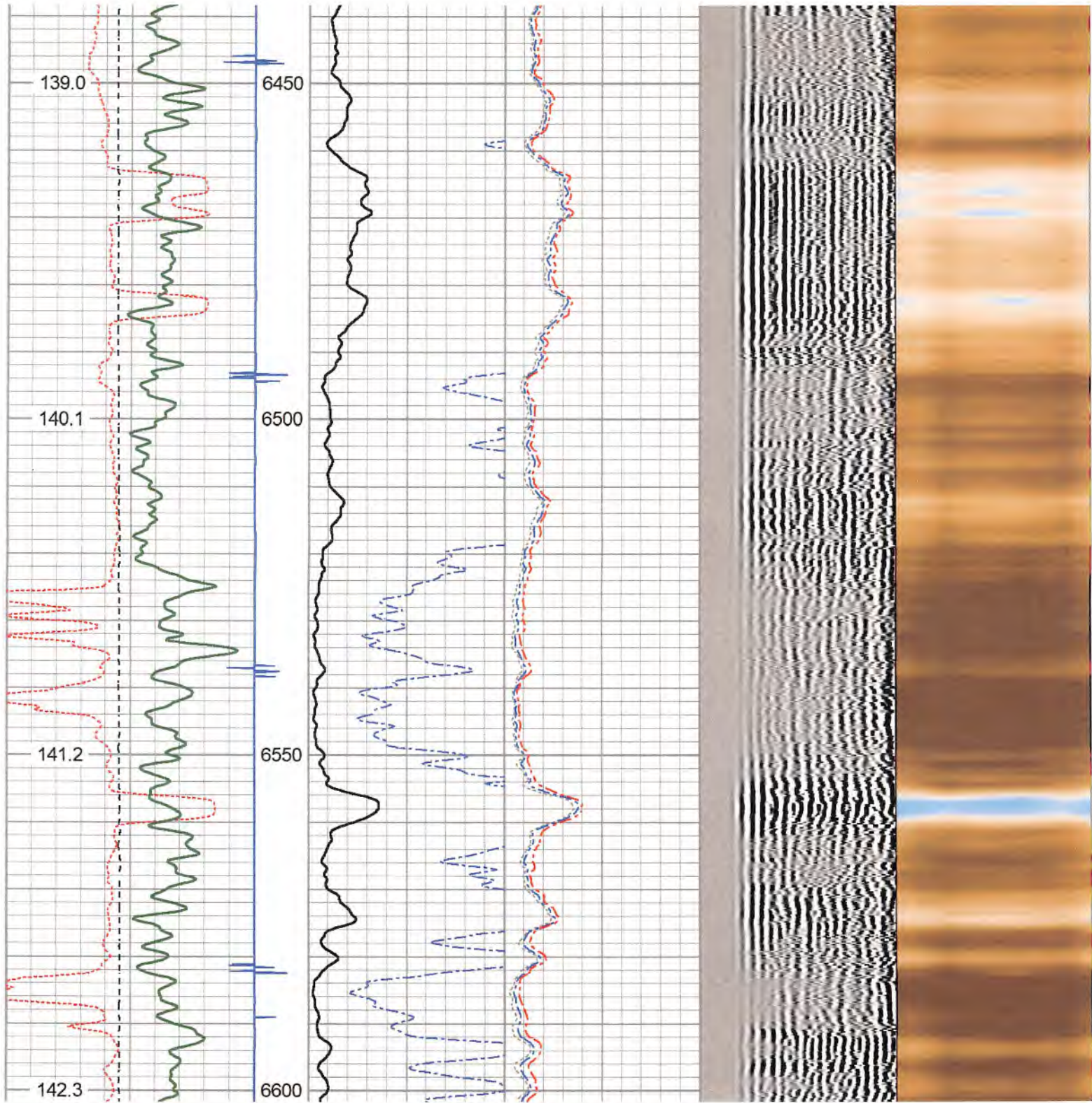


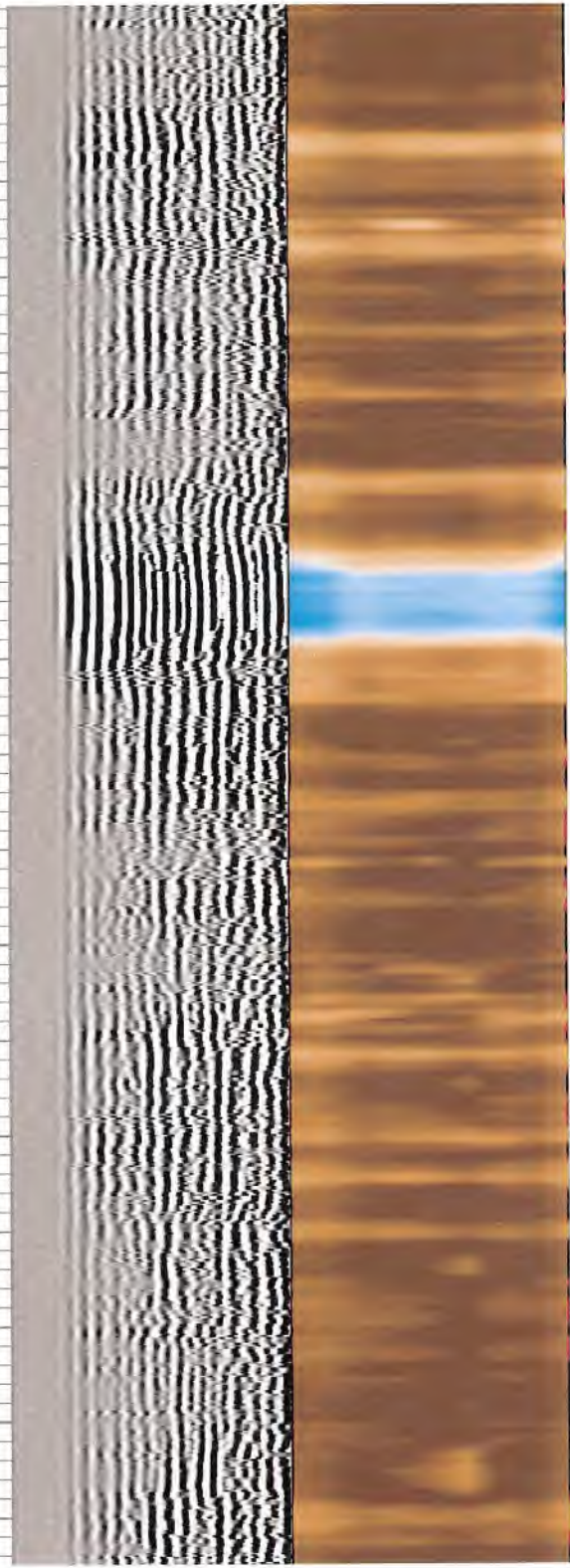
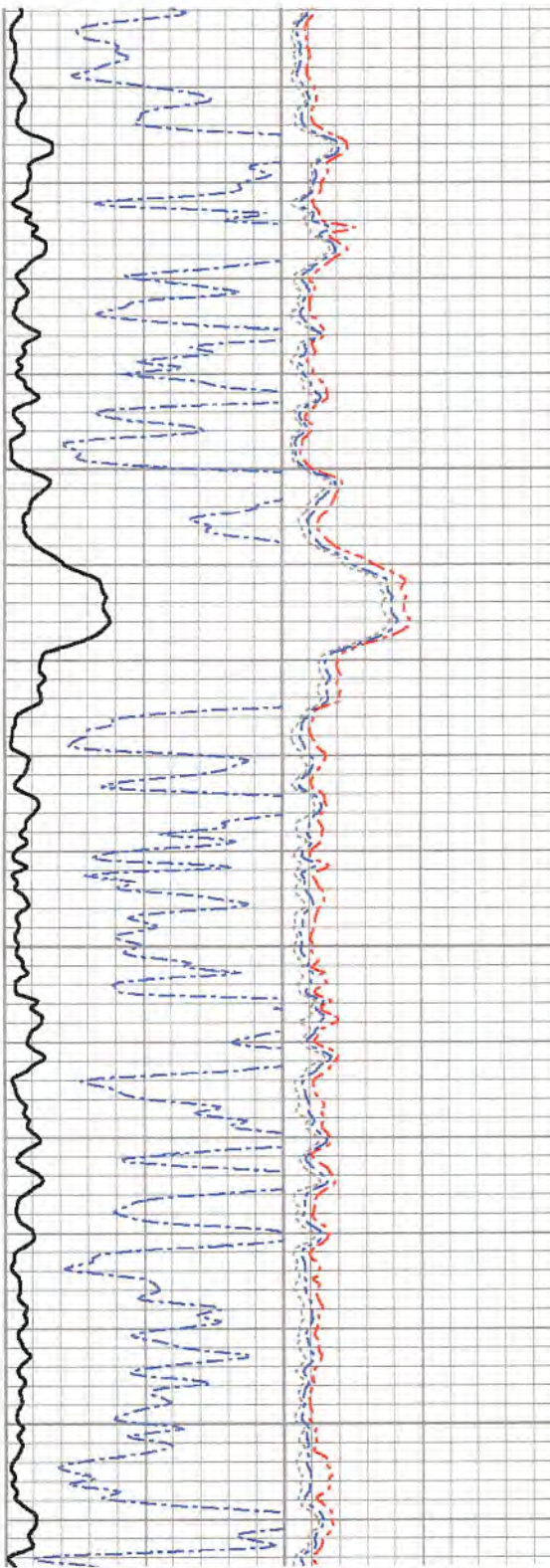
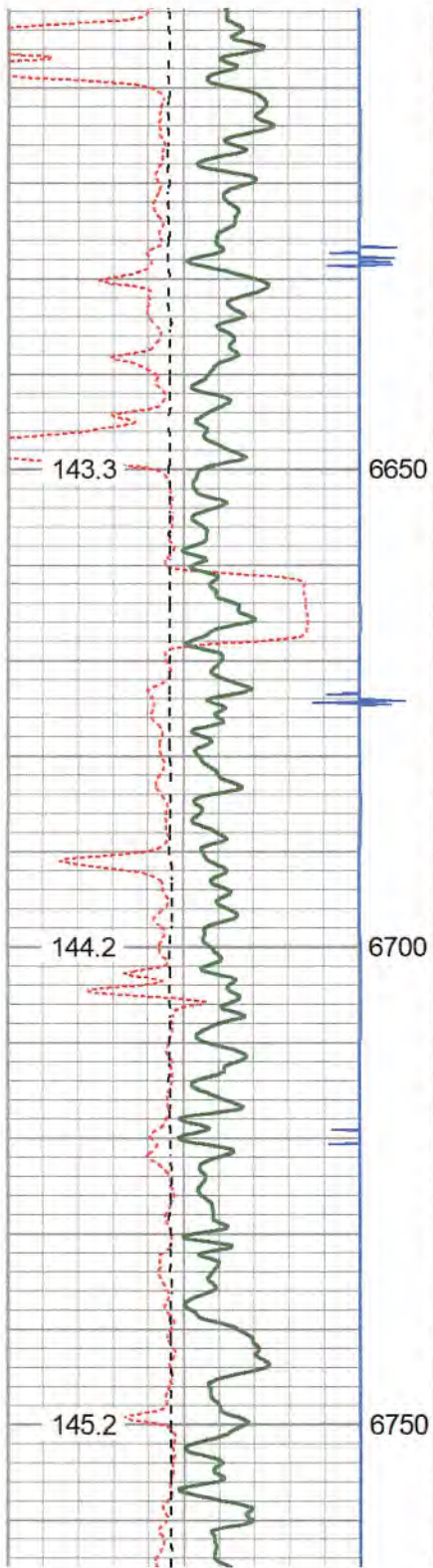


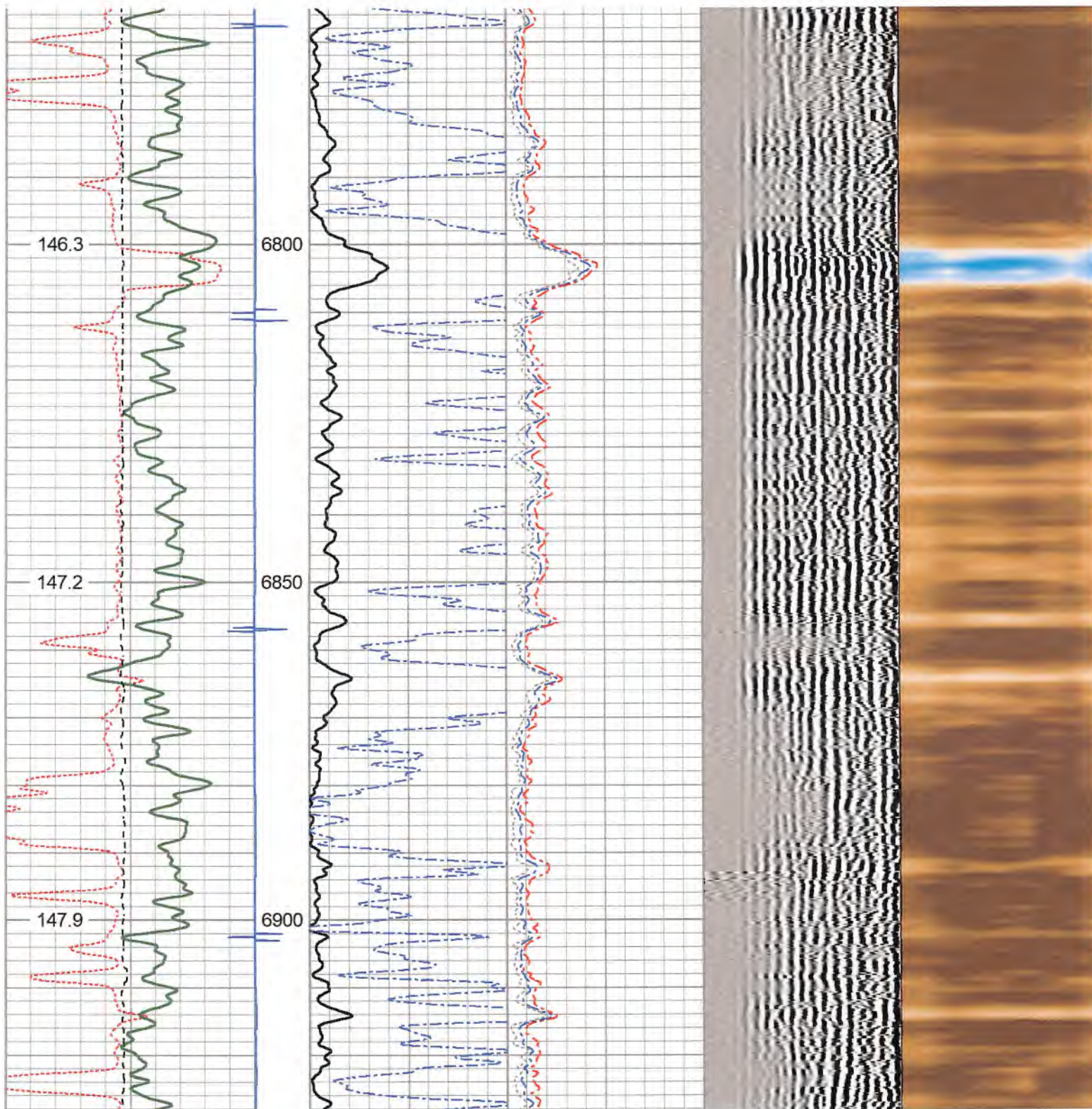


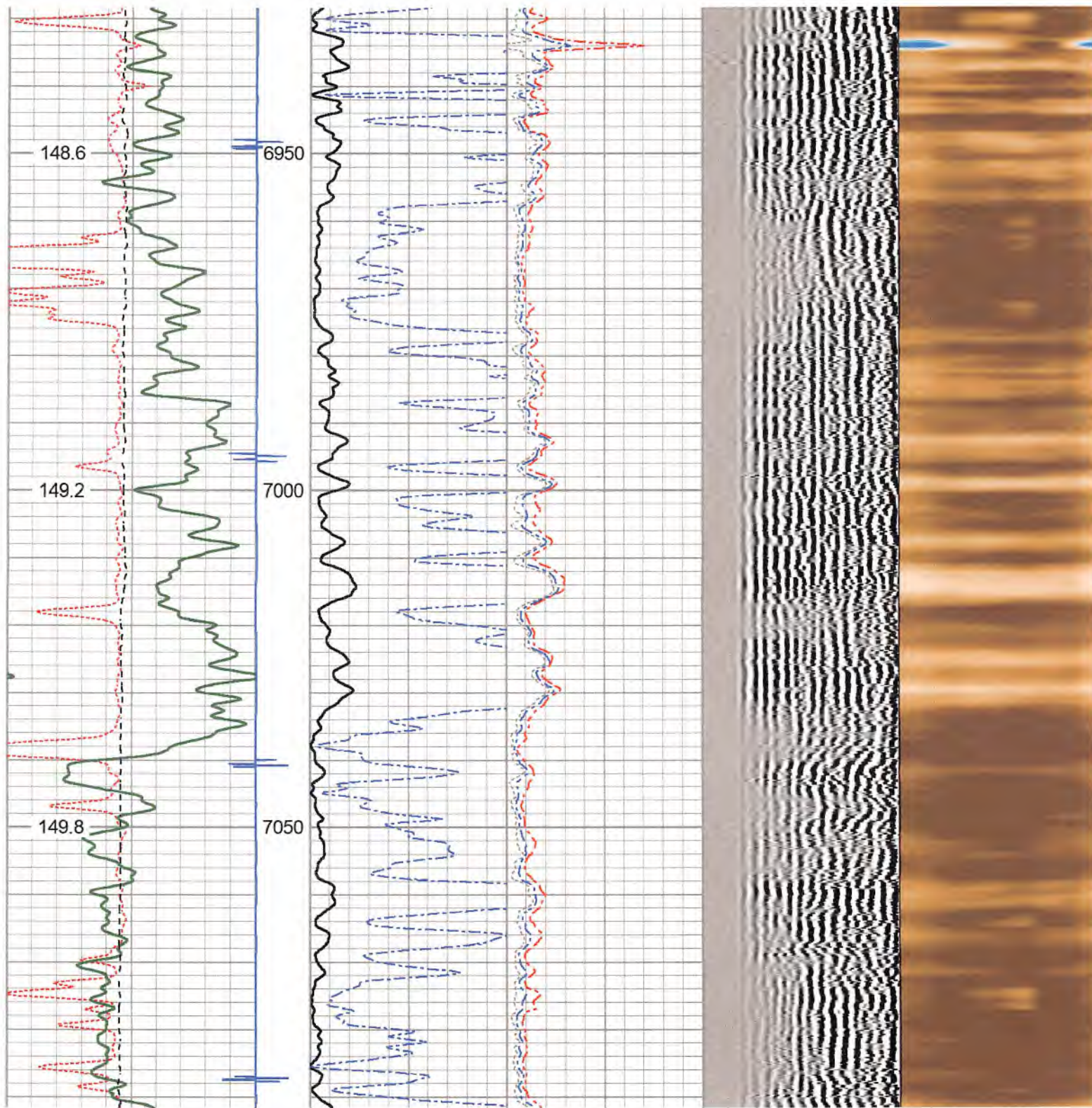


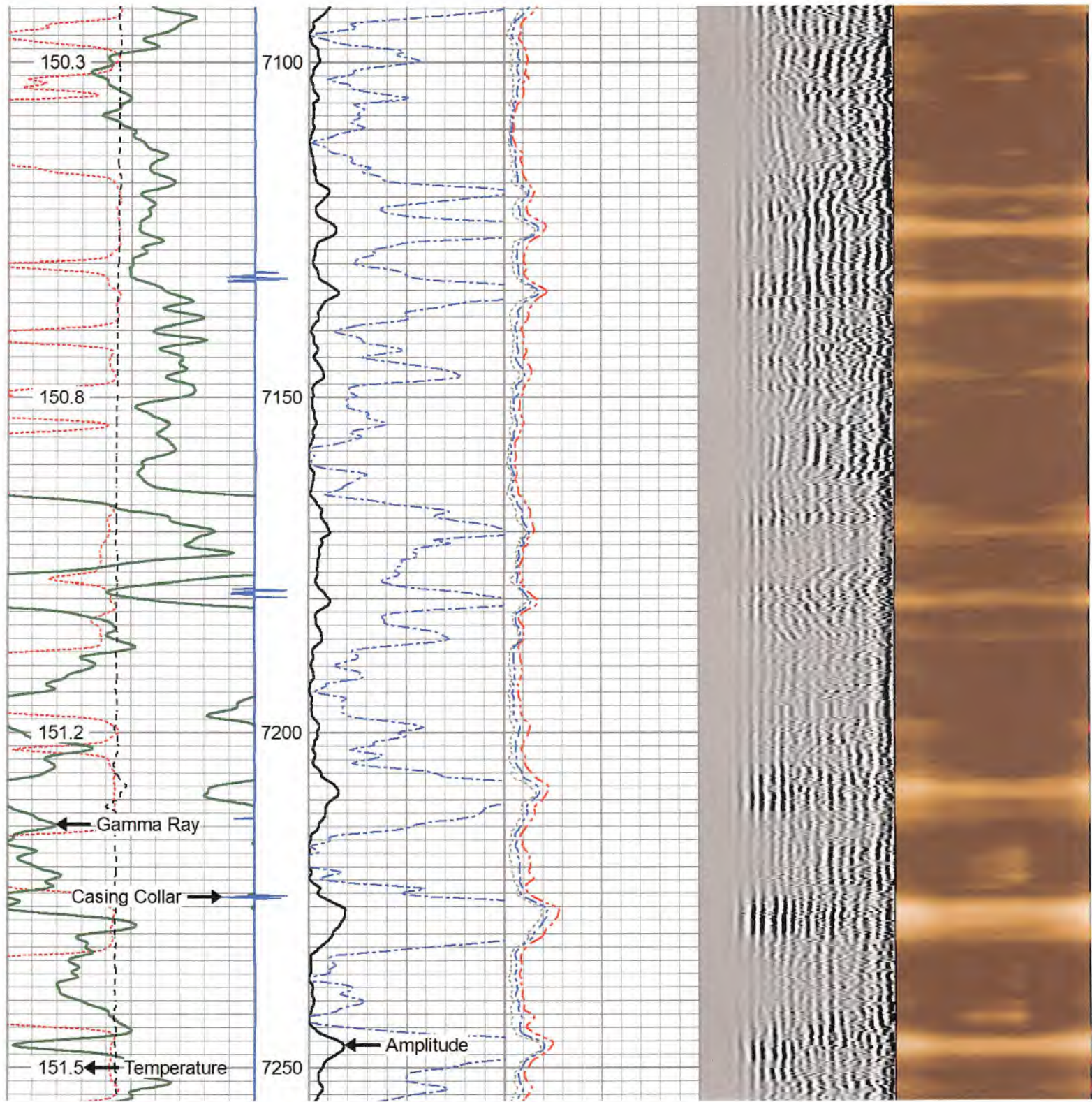


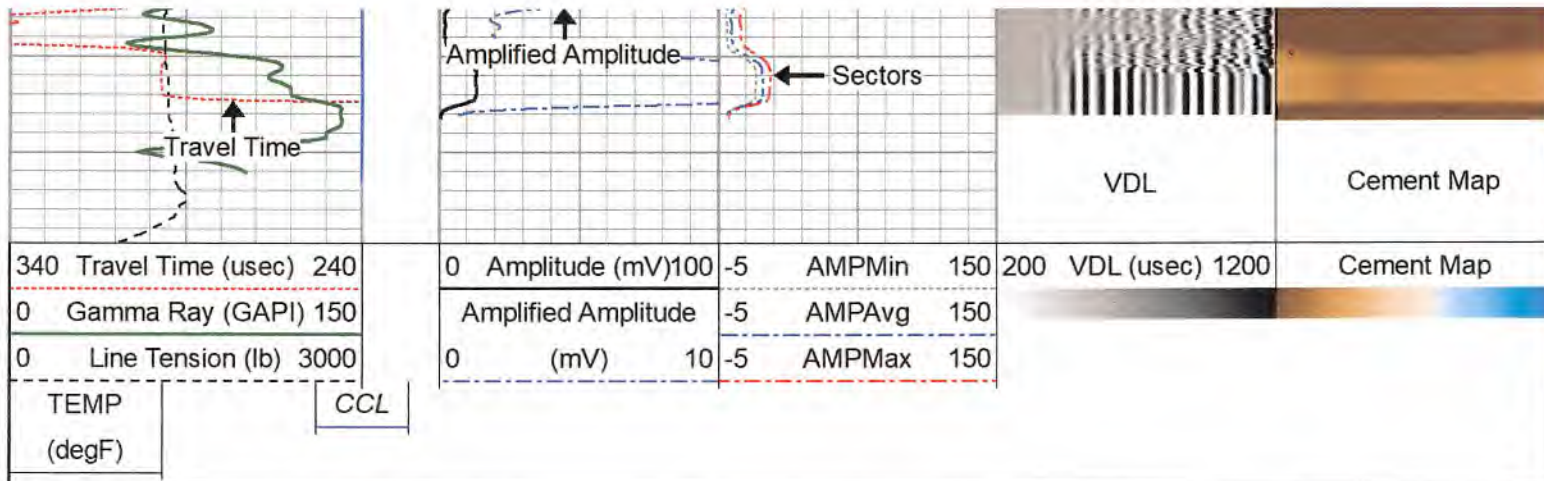






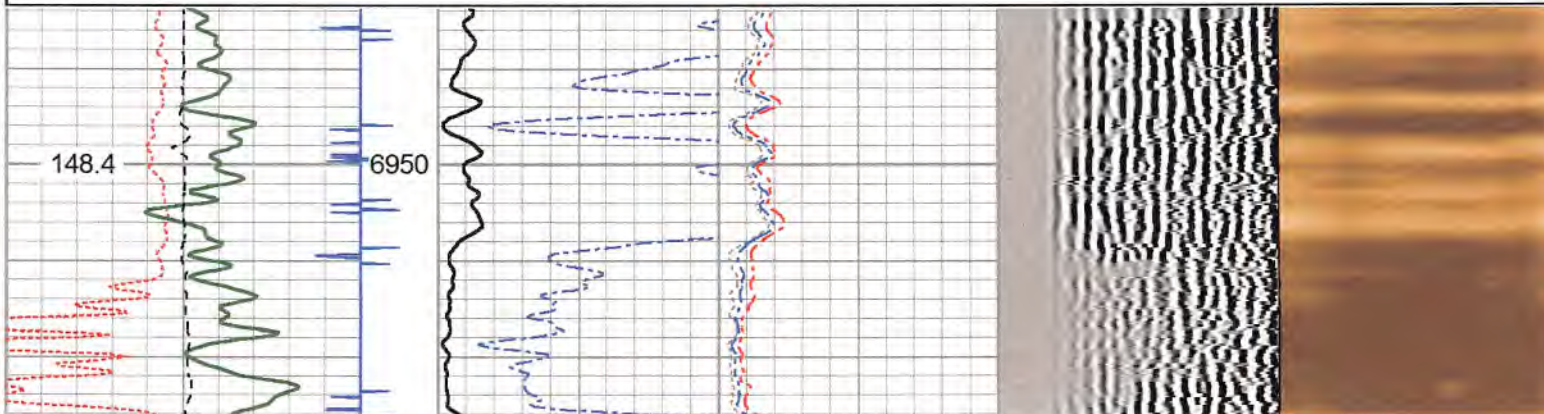
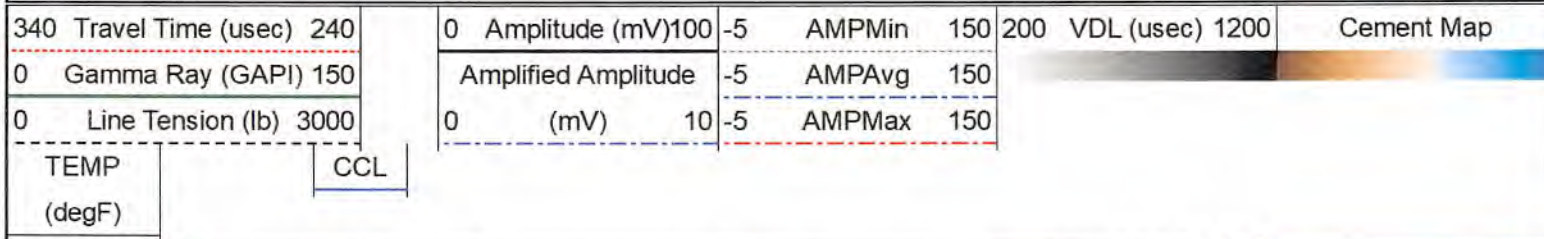


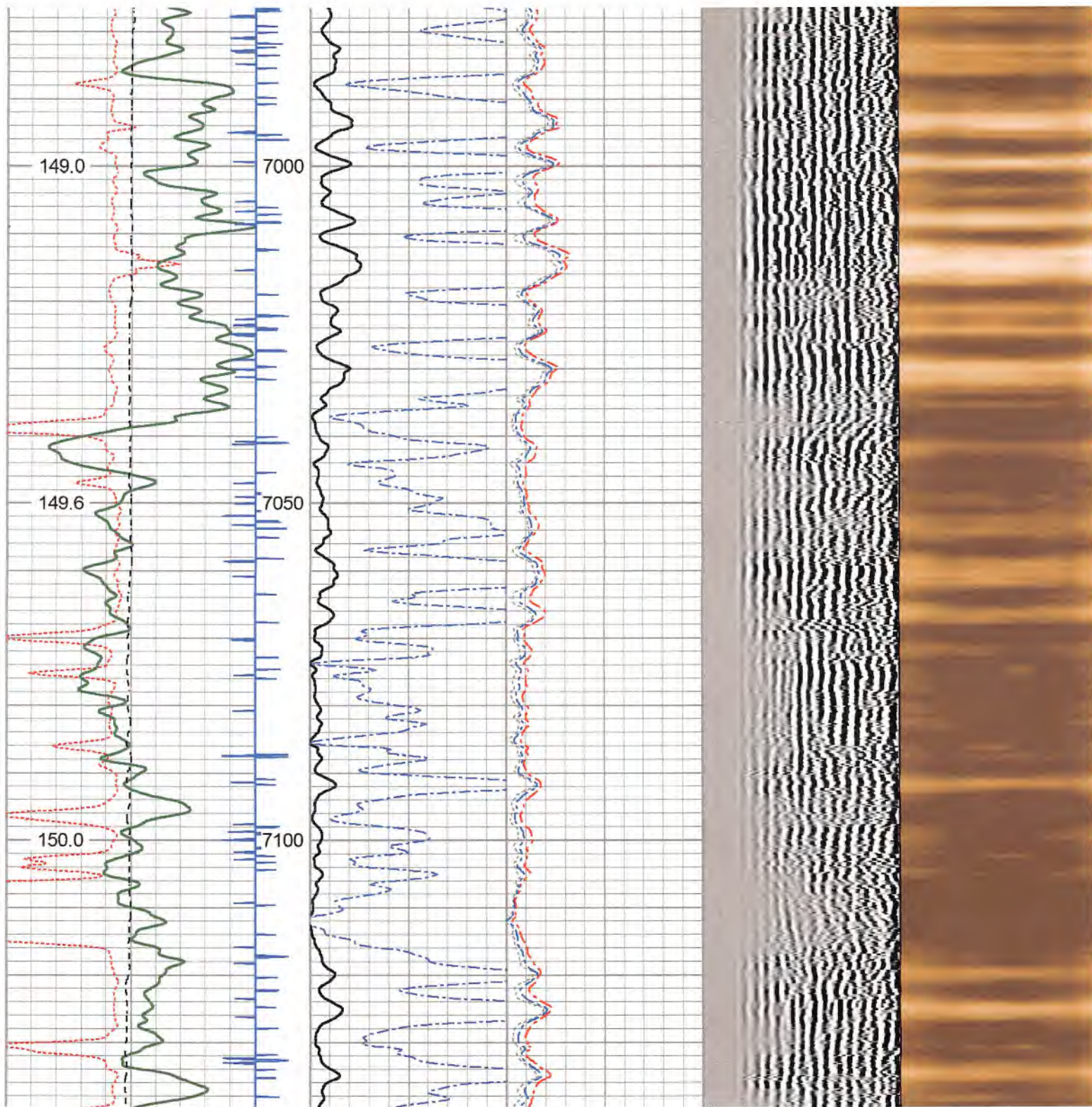


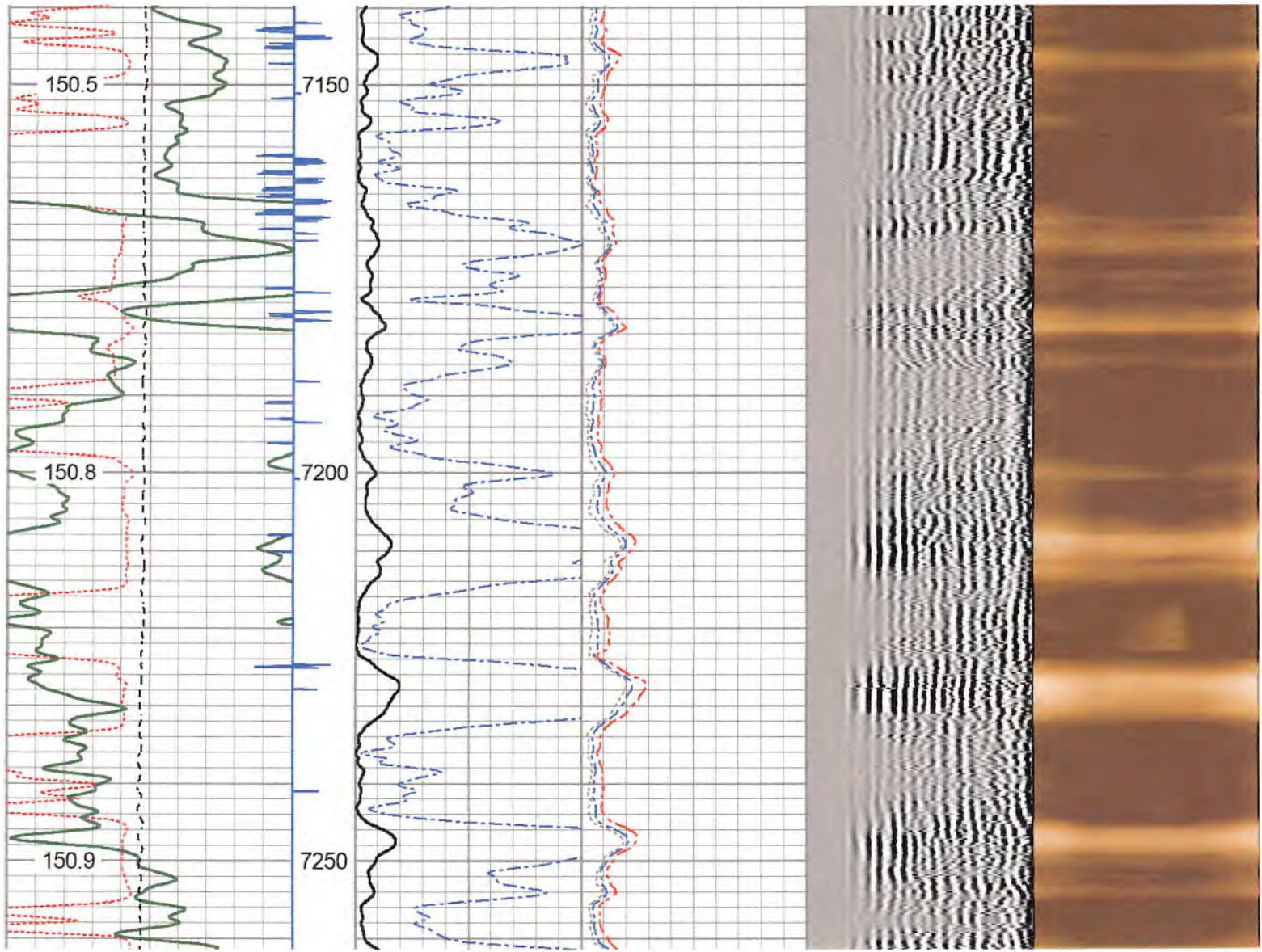


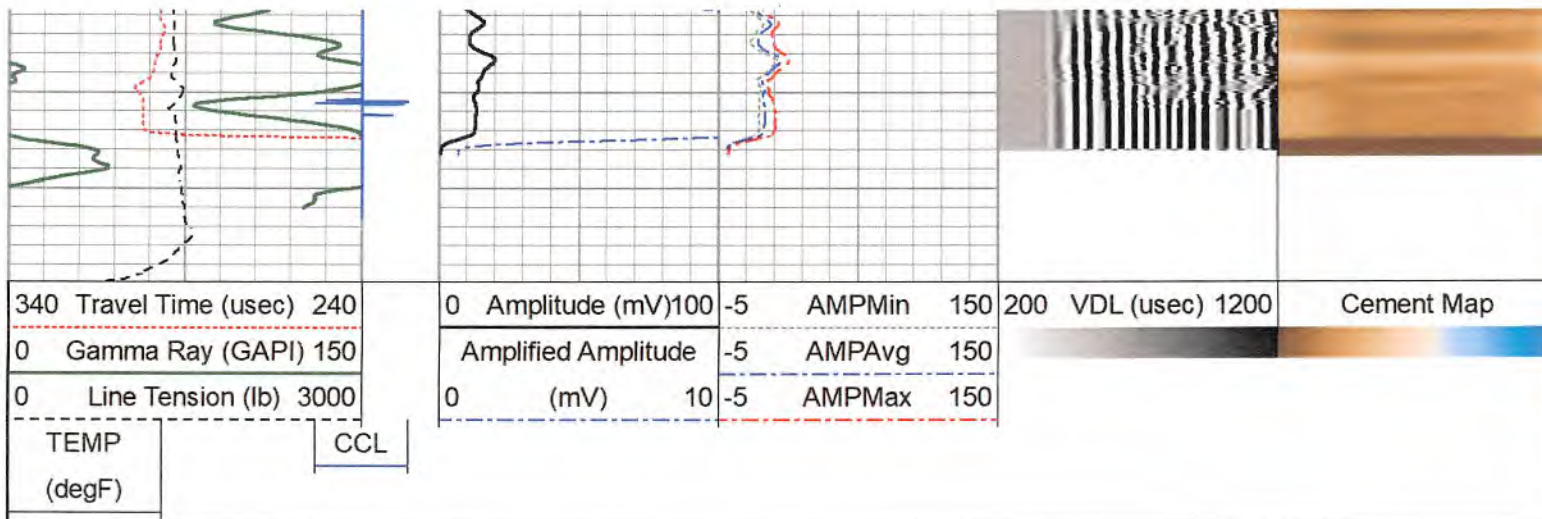
Energy Services **Repeat Pass (0 PSI)**

Database File: c:\users\logbox\desktop\antero gaspar\ant_gaspar_mckean_1h.db
 Dataset Pathname: rcbl/pass2
 Presentation Format: tt_rcbl_std_bw
 Dataset Creation: Sat Jul 16 17:25:04 2022
 Charted by: Depth in Feet scaled 1:240









Log Variables

Database: \users\logbox\desktop\antero gaspar\ant_gaspar_mckean_1h.db
 Dataset: field/well/rcbl/pass4/_vars_

Top - Bottom							
BOREID in 8.5	BOTTEMP degF 151.5	CASEOD in 5.5	CASETHCK in 0.42	CASEWGHT lb/ft 23	MAXAMPL mV 72	MINAMPL mV 1	MINATTN db/ft 0.8
PERFS No	PPT uSec 368	SRFTEMP degF 86	TDEPTH ft 7274				

Variable Description

BOREID : Borehole I.D. CASEWGHT : Casing Weight PERFS : Perforation Flag

BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness

MAXAMPL : Maximum Amplitude
MINAMPL : Minimum Amplitude
MINATTN : Minimum Attenuation

PPT : Predicted Pipe Time
SRFTEMP : Surface Temperature
TDEPTH : Total Depth

Calibration Report

Database File c:\users\logbox\desktop\lantero gaspar\ant_gaspar_mckean_1h.db
Dataset Pathname rcbl/pass4
Dataset Creation Sat Jul 16 17:47:45 2022

Gamma Ray Calibration Report

Serial Number: GCT275-0000_base
Tool Model: GCT275-0000
Performed: Wed May 29 12:12:35 2019

Calibrator Value: 1094.2 GAPI

Background Reading: 55.7 cps
Calibrator Reading: 1704.2 cps

Sensitivity: 0.6638 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: RBT275C_Base
Tool Model: RADII-275C

Calibration Casing Diameter: 5.500 in
Calibration Depth: 458.492 ft

Master Calibration, performed Sat Jul 16 13:58:01 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.356	1.000	71.921	200.333	0.680
CAL	-0.000	0.871				
5'	0.001	0.264	1.000	71.921	269.711	0.826
SUM						
S1	-0.005	0.556	0.000	100.000	178.137	0.870
S2	0.002	0.471	0.000	100.000	213.156	-0.429
S3	0.001	0.368	0.000	100.000	272.867	-0.403
S4	0.001	0.373	0.000	100.000	268.978	-0.263
S5	0.001	0.389	0.000	100.000	257.691	-0.186
S6	0.002	0.384	0.000	100.000	261.441	-0.514
S7	0.001	0.382	0.000	100.000	262.775	-0.391
S8	0.001	0.468	0.000	100.000	214.226	-0.160

Internal Reference Calibration, performed Sat Jul 16 09:45:49 2022:


	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.000	0.871	1.000	0.000

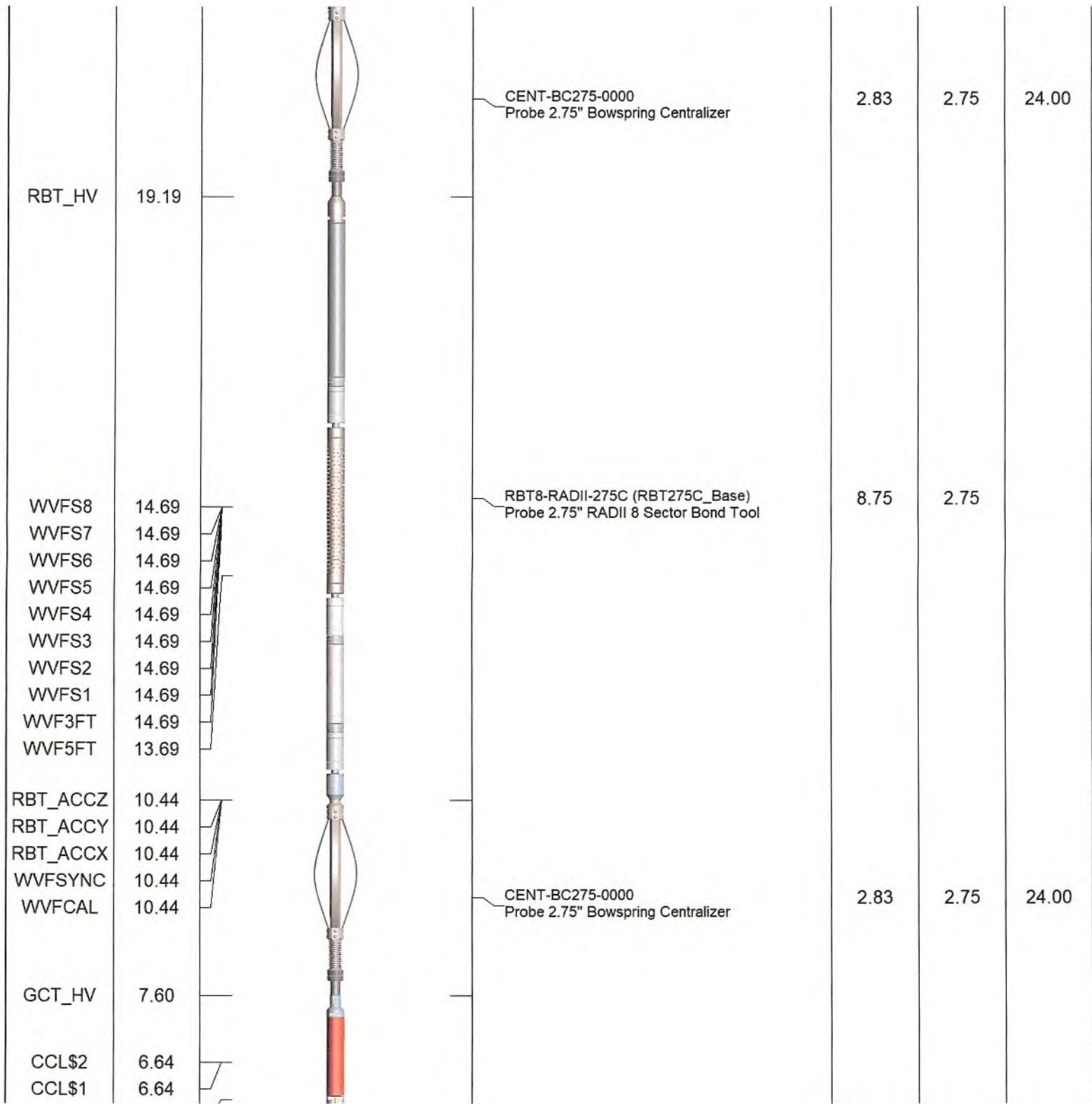
Air Zero Calibration, performed Sat Jul 16 09:42:35 2022:

	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	

Inclinometer Calibration Report

Performed:	(Not Performed)				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	0.00	1.00	0.00	1.00	gee
Y Accelerometer	0.00	1.00	0.00	1.00	gee
Z Accelerometer	0.00	1.00	0.00	1.00	gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Cable_Head-1_7/16 Titan 1 7/16" Cable Head	1.02	1.44	3.31



RBT_HV

19.19

CENT-BC275-0000
Probe 2.75" Bowspring Centralizer

2.83

2.75

24.00

WVFS8

14.69

RBT8-RADII-275C (RBT275C_Base)
Probe 2.75" RADII 8 Sector Bond Tool

8.75

2.75

WVFS7

14.69

WVFS6

14.69

WVFS5

14.69

WVFS4

14.69

WVFS3

14.69

WVFS2

14.69

WVFS1

14.69

WVF3FT

14.69

WVF5FT

13.69

RBT_ACCZ

10.44

CENT-BC275-0000
Probe 2.75" Bowspring Centralizer

2.83

2.75

24.00

RBT_ACCY

10.44

RBT_ACCX

10.44

WVFSYNC

10.44

WVFCAL

10.44

GCT_HV


7.60

CCL\$2

6.64

CCL\$1

6.64

GCT_Temp	6.09					
GR	5.22		GC-GCT275-0000 (GCT275-0000_base) Probe Gamma Ray - CCL w/ Temp	4.77	2.75	55.00
			CENT-BC275-0000 Probe 2.75" Bowspring Centralizer	2.83	2.75	24.00
Dataset: ant_gaspar_mckean_1h.db: field/well/rcbl/pass4 Total length: 23.04 ft Total weight: 130.31 lb O.D.: 2.75 in						

	Company	Antero Resources Corporation		
	Well	McKean Unit 1H		
	Field	South Canton		
	County	Doddridge		
	State	WV	Country	USA