



**SECTOR CEMENT BOND
GAMMA RAY
CCL LOG**

Comp. OCCIDENTAL PETROLEUM CORP.
Well DECHANT USX X29-06
Field WATTENBURG
Co. WELD
State CO

Company **OCCIDENTAL PETROLEUM CORP.**
Well **DECHANT USX X29-06**
Field **WATTENBURG**
County **WELD** State **CO**

Location: API #: 05-123-32928
2055 FNL & 2059 FWL
SEC 29 TWP 2N RGE 65W

Permanent Datum GL Elevation 4925'
Log Measured From KB 13' Above Perm. Datum
Drilling Measured From KB

Other Services
K.B. 4938'
D.F. 4937'
G.L. 4925'

Date of Service	NOV-15-2022
Run Number	ONE
Depth Driller or PBTD	7914'
Depth Logger	6870'
Bottom Log Interval	6870'
Top Log Interval	SURFACE
Open Hole Size	7-7/8"
Type Fluid	H2O
Fluid Level	SURFACE
Fluid Density	NA
Max. Recorded Temperature	229 DEG
Max. Wellhead Pressure	ZERO
Wellhead Connection	5K
Estimated Cement Top	5220'
Unit Number	L-15
Wireline Size	9/32'
Location	BRIGHTON CO
Recorded By	J. SMITH
Witnessed By	P. CHAVIRA

Surface Casing	8-5/8"	W/Ft	Top	Bottom
Production Casing	4-1/2"	24 #	SURFACE	960'
Liner Casing	4-1/2"	11.6 #	SURFACE	7904'
Tubing Record				

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All interpretations are opinions based on inferences from electrical or other measurements and Ranger Energy Services cannot and does not guarantee the accuracy or correctness of any interpretation, and Ranger Energy Services will not 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.

Comments

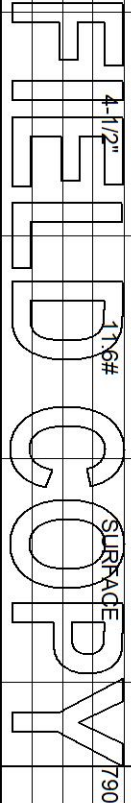
N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
LOG CORRELATED TO KB


THANK YOU FOR USING RANGER ENERGY SERVICES!

THANK YOU FOR USING RANGER ENERGY SERVICES! FIELD TICKET #

Your Ranger Energy Services Crew	Tool Data - Services	Serial Number
Engineer: J. SMITH Operator: C. BOND Operator: T. UNDERWOOD Operator:		

Quantity	Offset (ft)	Substrate	Description	Length (ft)	O.D. (in)	Weight (lb)
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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	
WVFSYNC	16.00						
WVFCAL	16.00						
TEMP	14.87						
WVFS8	13.58			SCBLTEKSECT-275 Temp JS (275001) TekCo 2 3/4" 400 Deg. F Sector Tool with Temperature (JS)	9.13	2.75	130.00
WVFS7	13.58						
WVFS6	13.58						
WVFS5	13.58						
WVFS4	13.58						
WVFS3	13.58						
WVFS2	13.58						
WVFS1	13.58						
WV3FT	12.83						
WV5FT	11.83						
WVTEMP	8.50						
CCL	7.35		CCL-275tekco (111) Tekco 2 3/4" 450 Deg. F Rare Earth Magnets	1.83	2.75	33.00	
GR	4.04		GR-Tek-Co 2 3/4 (0111) Tekco 2 3/4" 400 Deg. F Logging Gamma Ray	3.67	2.75	40.00	
			Centralizers-8071-275-200 Tekco 2 3/4" Adjustable Centralizer	2.73	2.75	25.00	
			Bull_Plug-1_7/16_GO Titan 1 7/16" Female Bull Plug	0.27	1.44	1.00	

Dataset: dechant_usx_x29-06_cbl.db: field/Dechant_USX_X29-06/run1/pass27.1
 Total length: 18.64 ft
 Total weight: 232.31 lb
 O.D.: 2.75 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\dechant_usx_x29-06_cbl.db
 Dataset field/Dechant_USX_X29-06/run1/pass27.1/_vars_

Top - Bottom

BHTEMP_Src TEMP	BOREID in 8.75	BOTTEMP degF 100	CASEOD in 4.5	CASETHCK in 0.408	CASEWGHT lb/ft 11.6	MAXAMPL mV 81.2	MINAMPL mV 0.7
MINATTN db/ft 0.8	PERFS No	PPT usec 220	SRFTEMP degF 30	TDEPTH ft 6850			

Variable Description

BHTEMP_Src : BHTEMP Input Source Selector
 BOREID : Borehole I.D.
 BOTTEMP : Bottom Hole Temperature
 CASEOD : Casing O.D.
 CASETHCK : Casing Thickness
 CASEWGHT : Casing Weight
 MAXAMPL : Maximum Amplitude

MINAMPL : Minimum Amplitude
 MINATTN : Minimum Attenuation
 PERFS : Perforation Flag
 PPT : Predicted Pipe Time
 SRFTEMP : Surface Temperature
 TDEPTH : Total Depth

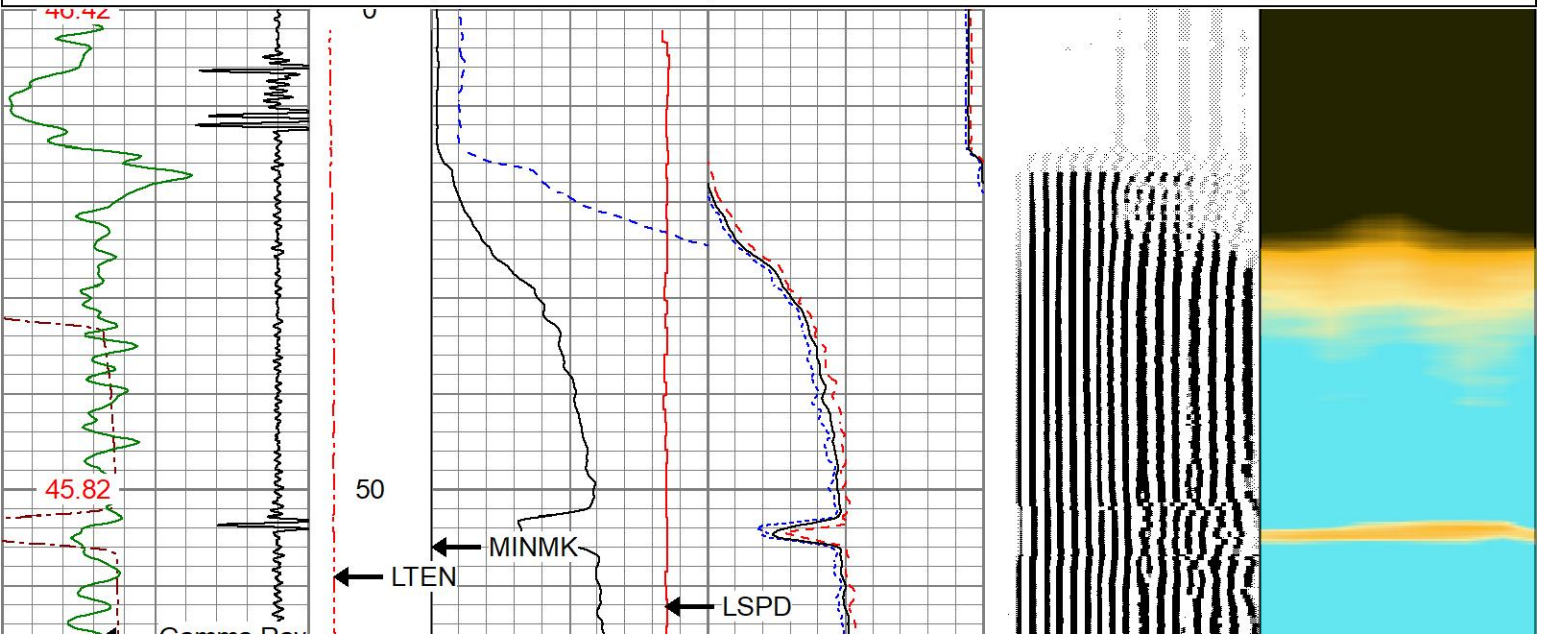


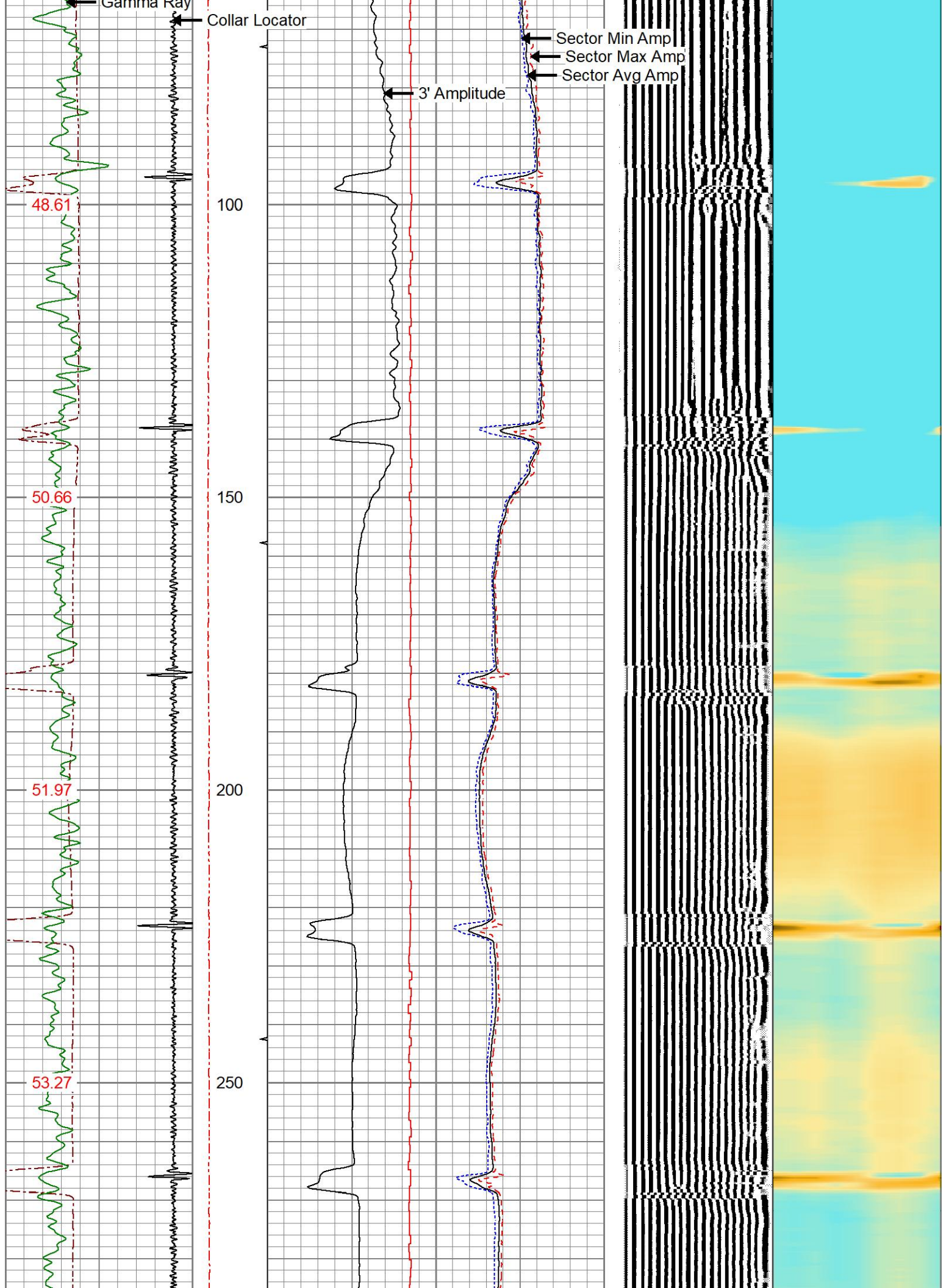
MAIN PASS

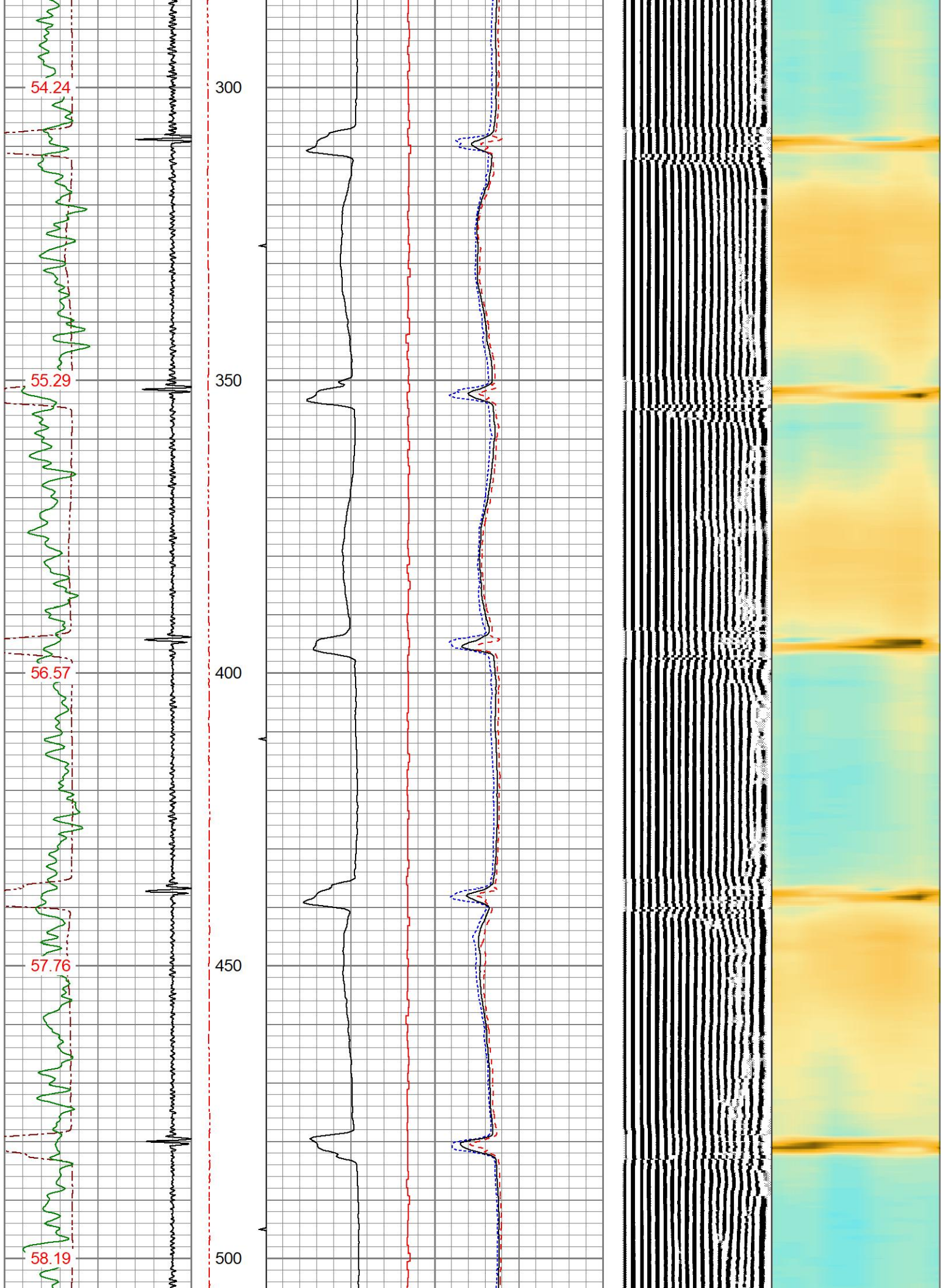
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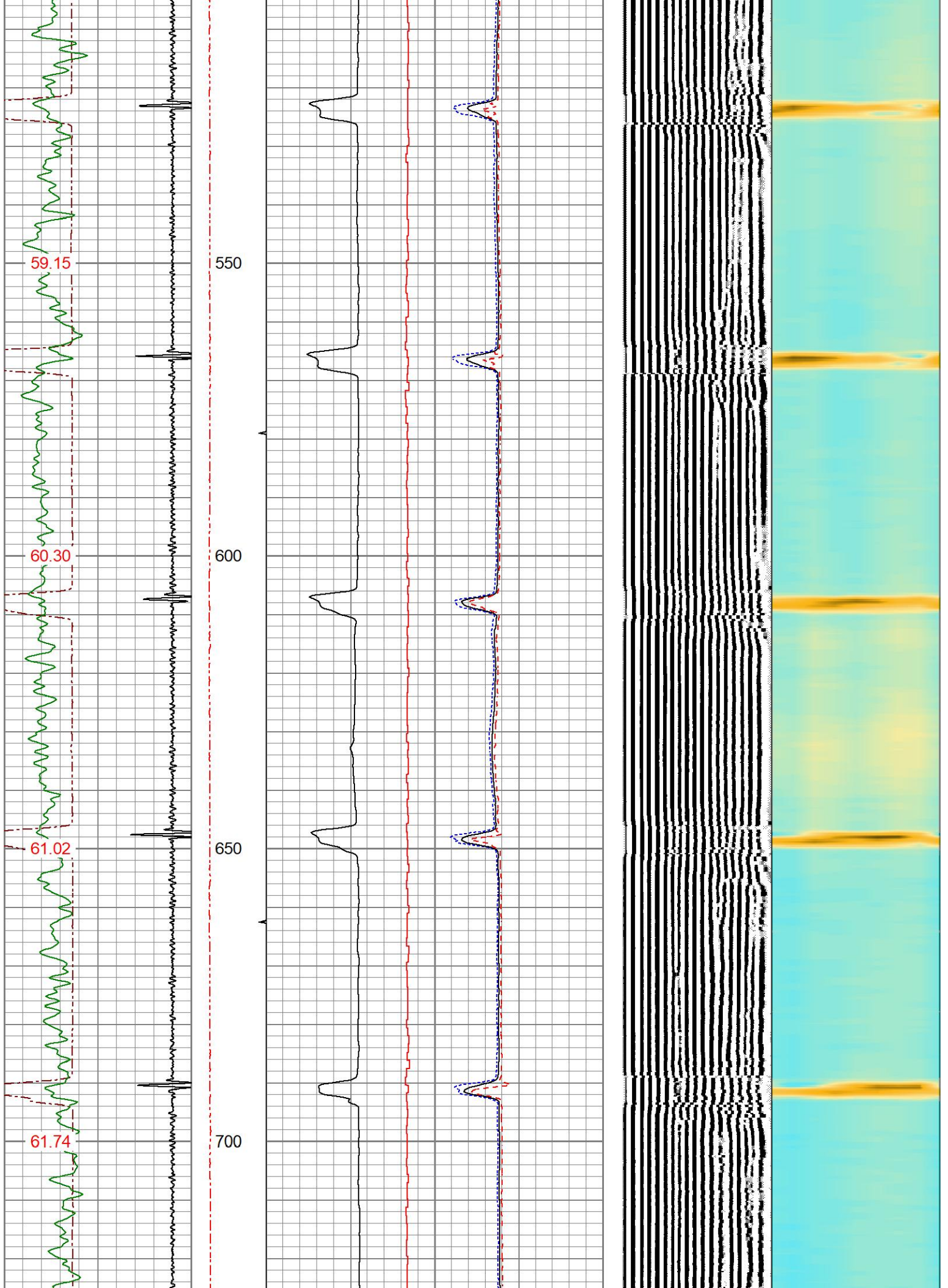
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 Dataset Pathname Dechant_USX_X29-06/run1/pass27.1
 Presentation Format res_scb_l_co
 Dataset Creation Tue Nov 15 13:11:12 2022
 Charted by Depth in Feet scaled 1:240

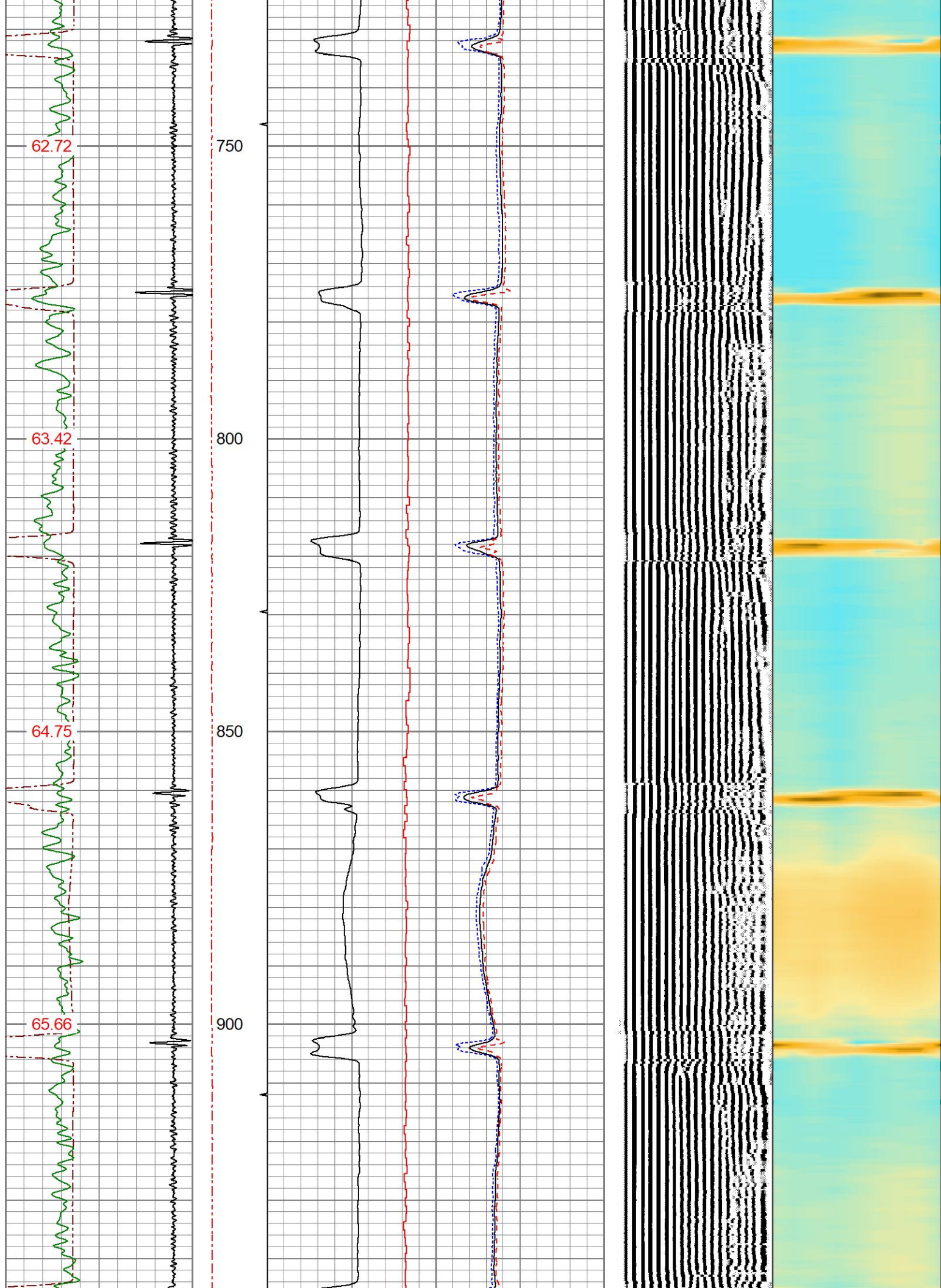
250 3FT TT (usec) 150	LTEN	3' Amplitude	0 Sector Min Amp 150	200 VDL (usec) 1200	1 Sector Map	8
-9 Collar Locator 1	(lb)	(mV) 100	Sector Avg Amp			
0 Gamma Ray 150	0 2000	3' Amplified Amplitude X 5	0 150			
TEMP	MINMK	(mV) 20	Sector Max Amp			
(degF)	10 0	0 LSPD (ft/min)-100	0 150			

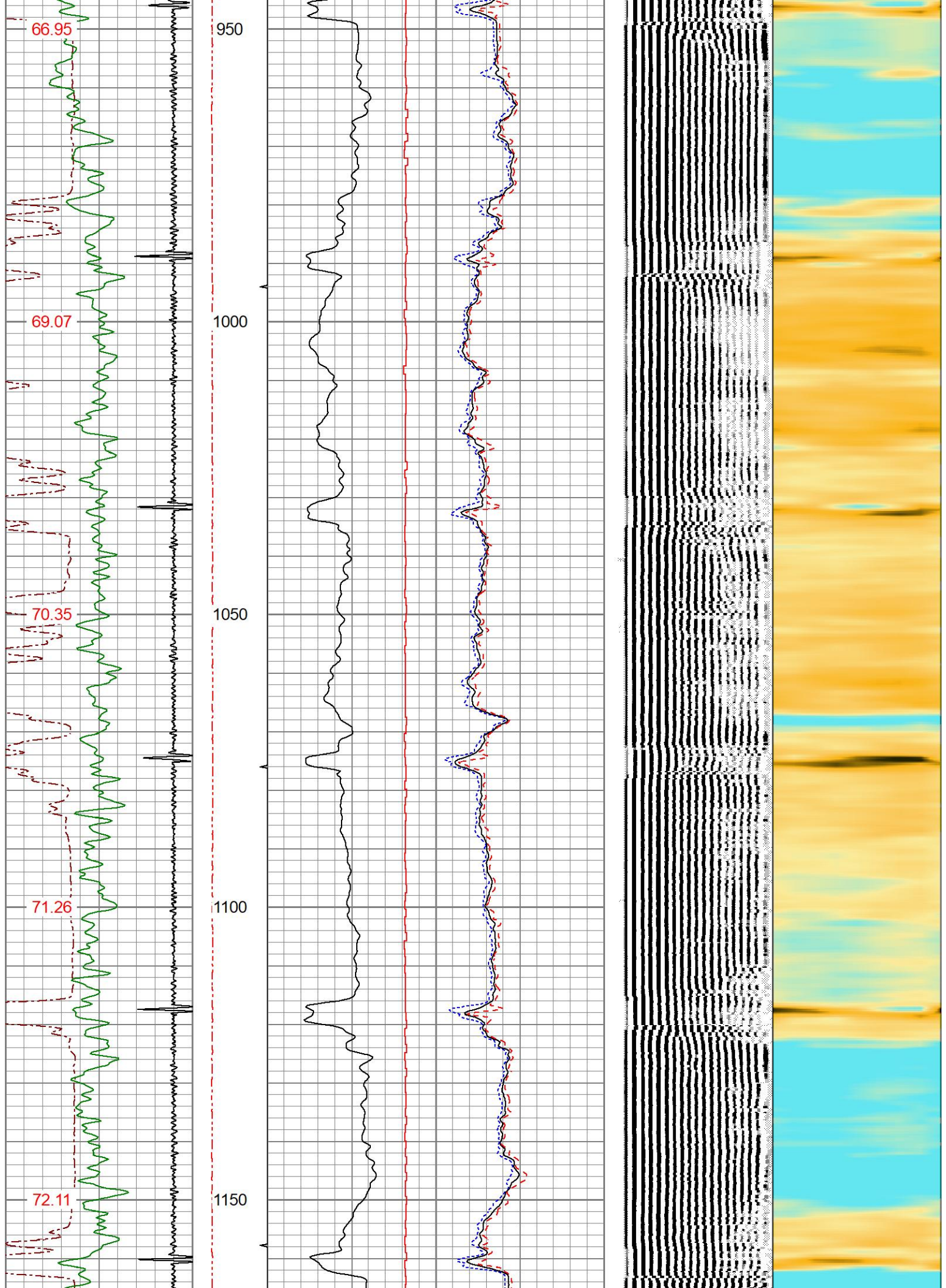


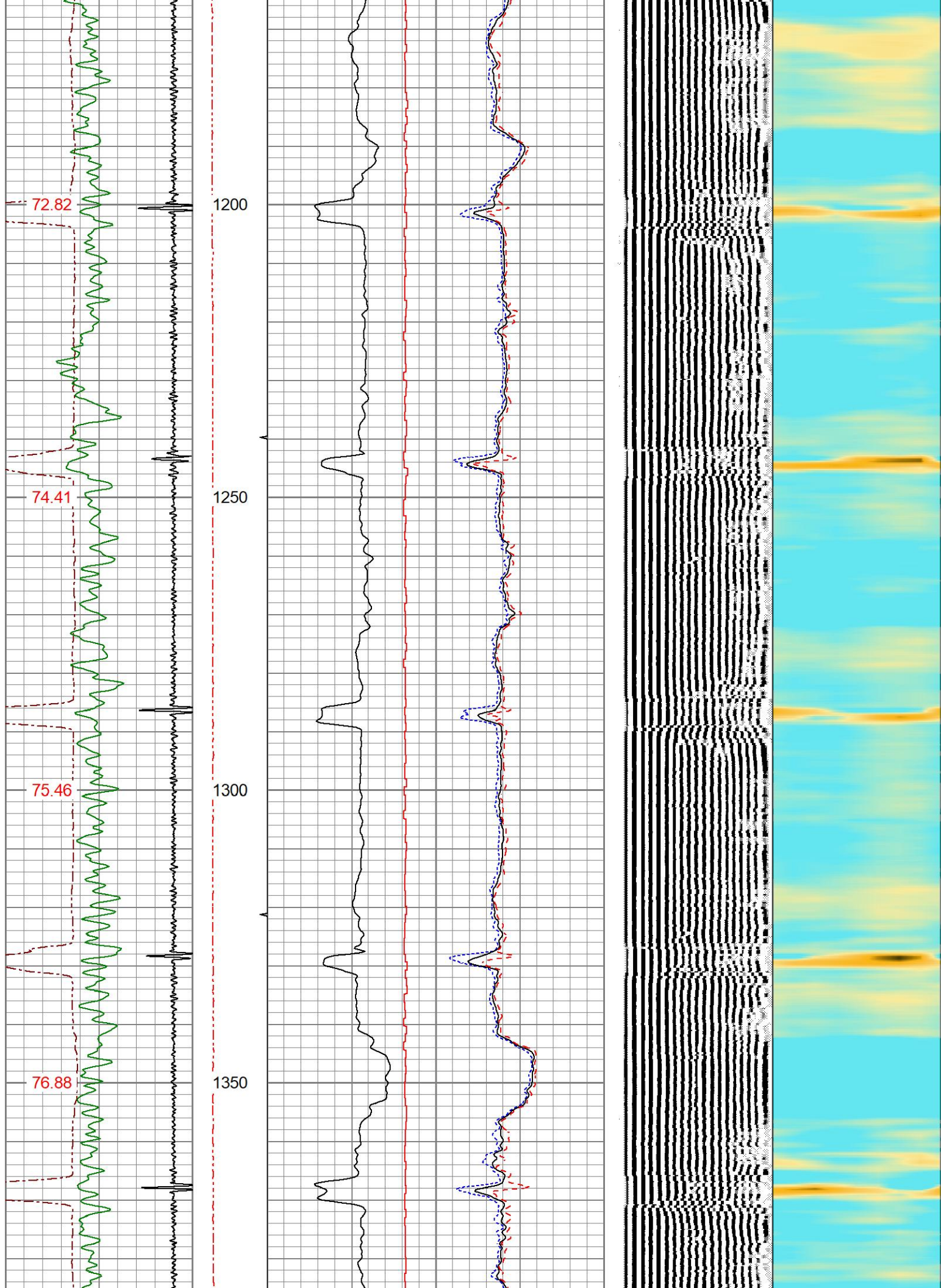


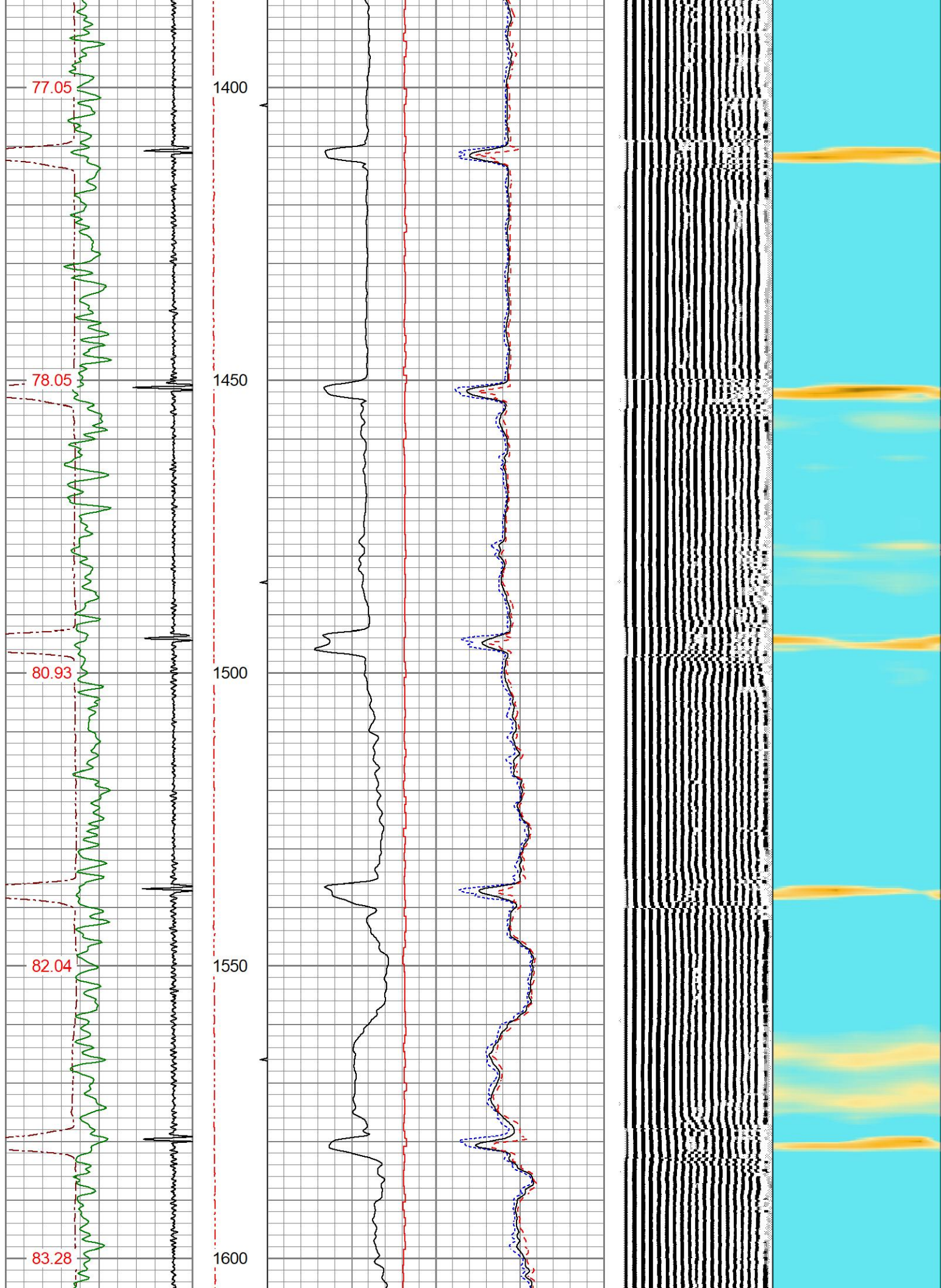


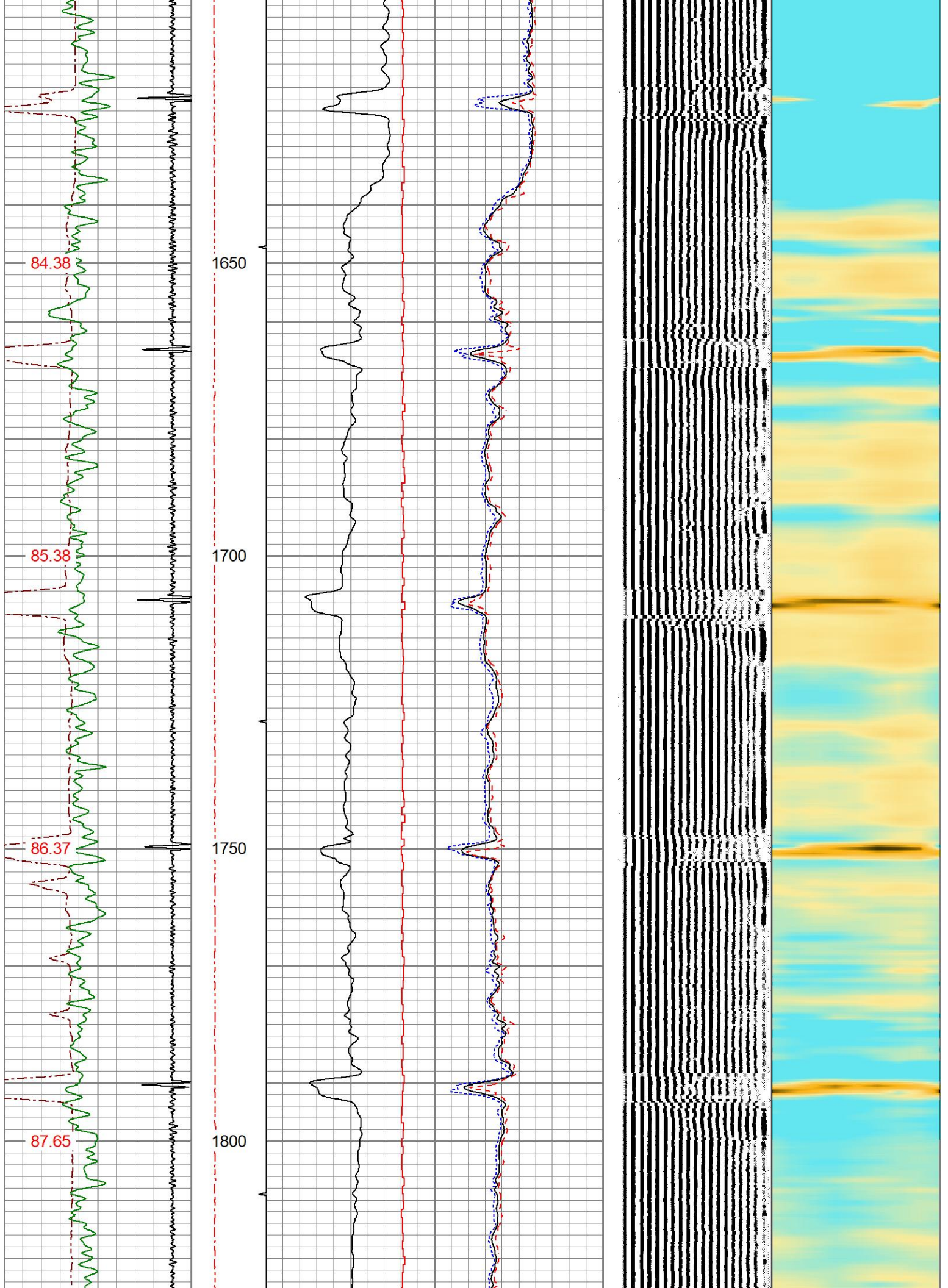


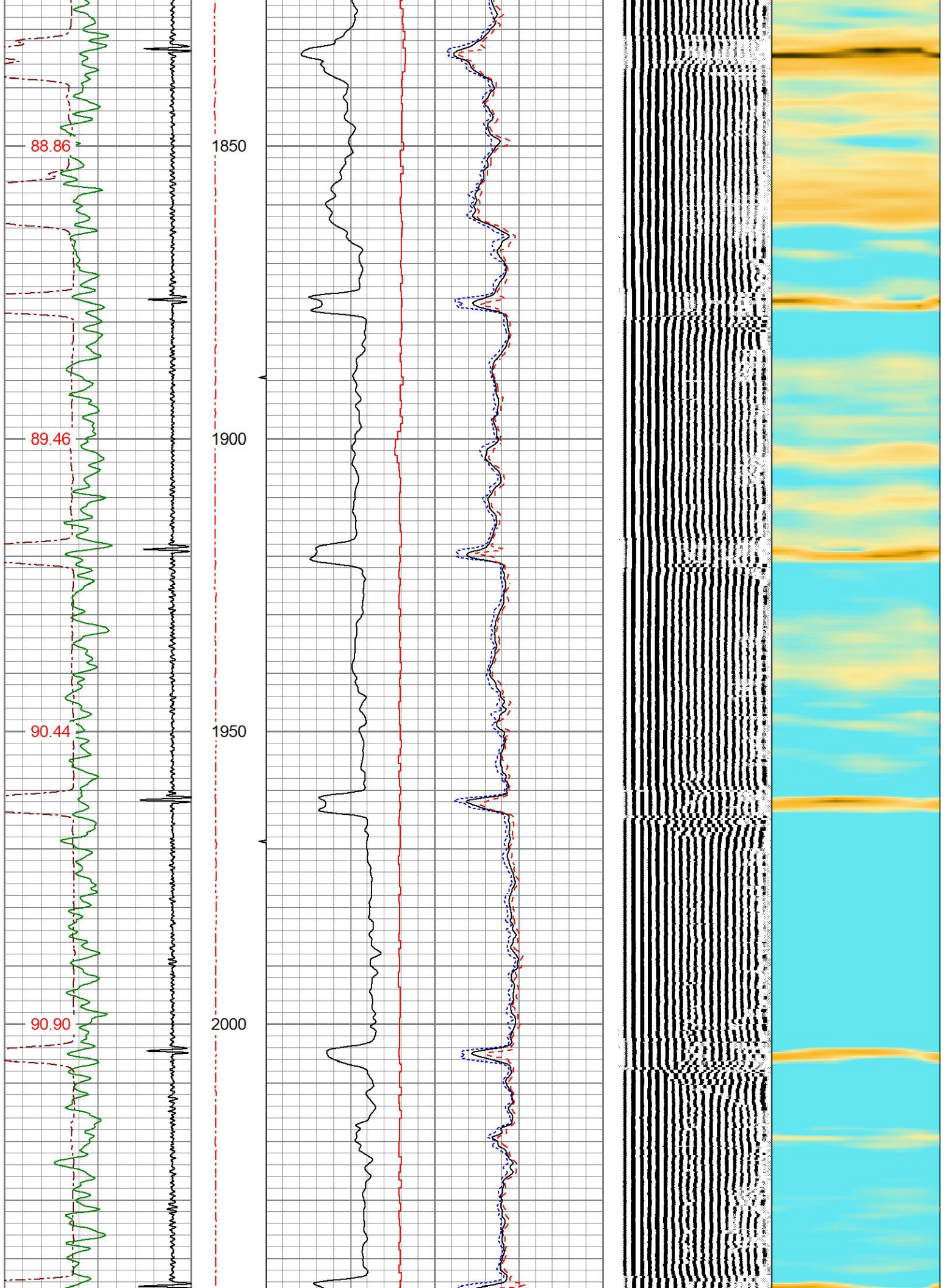


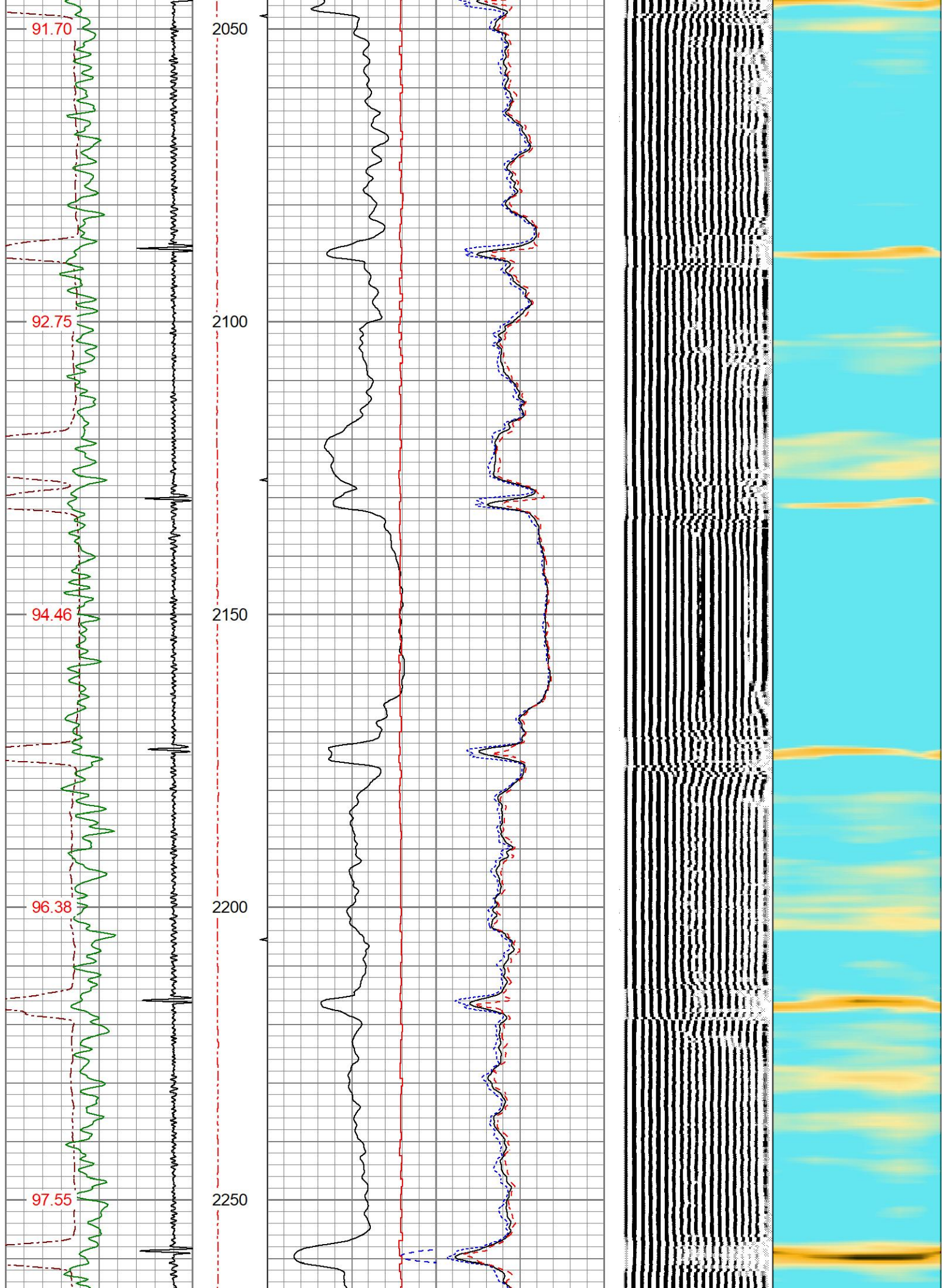


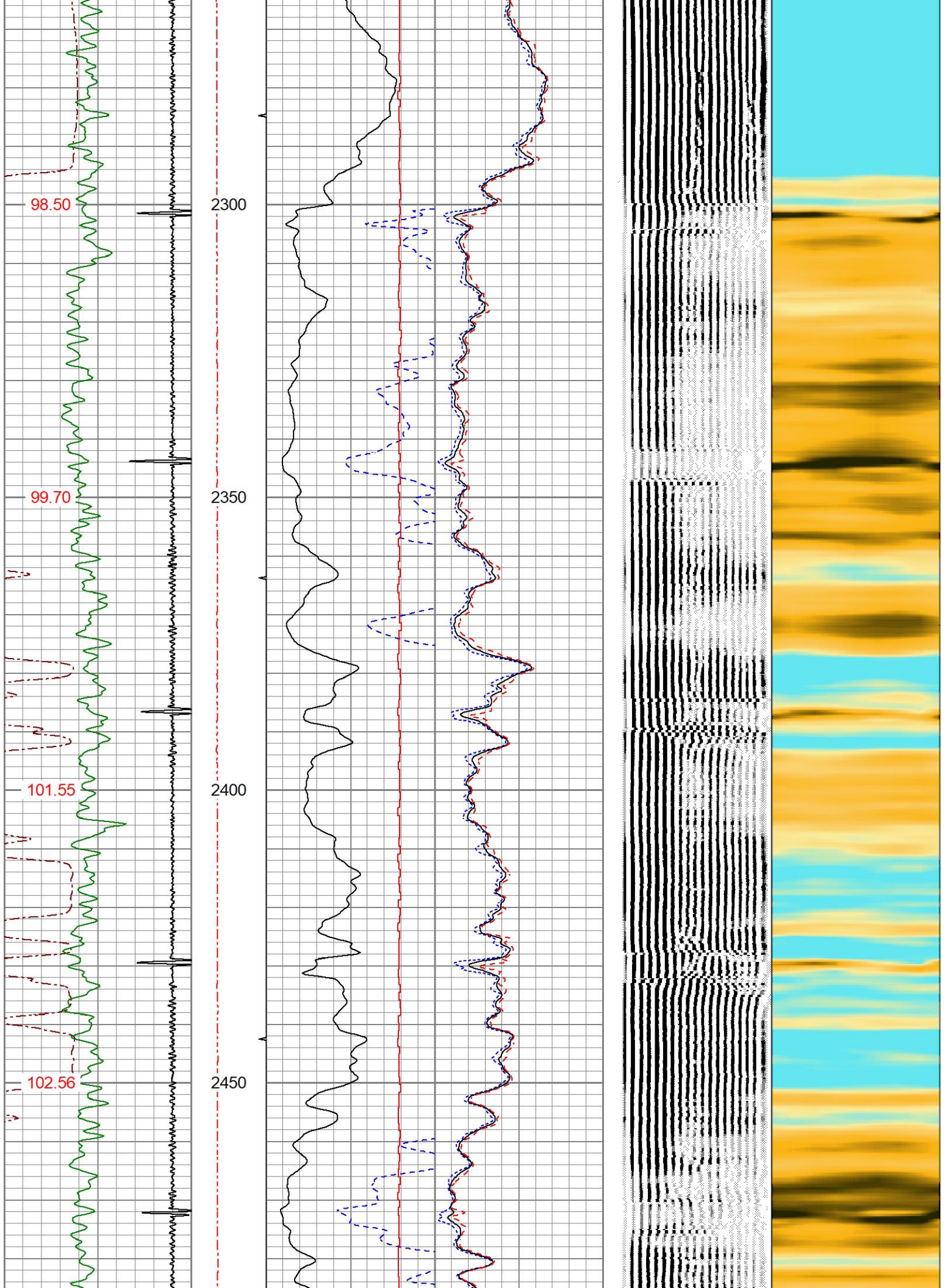


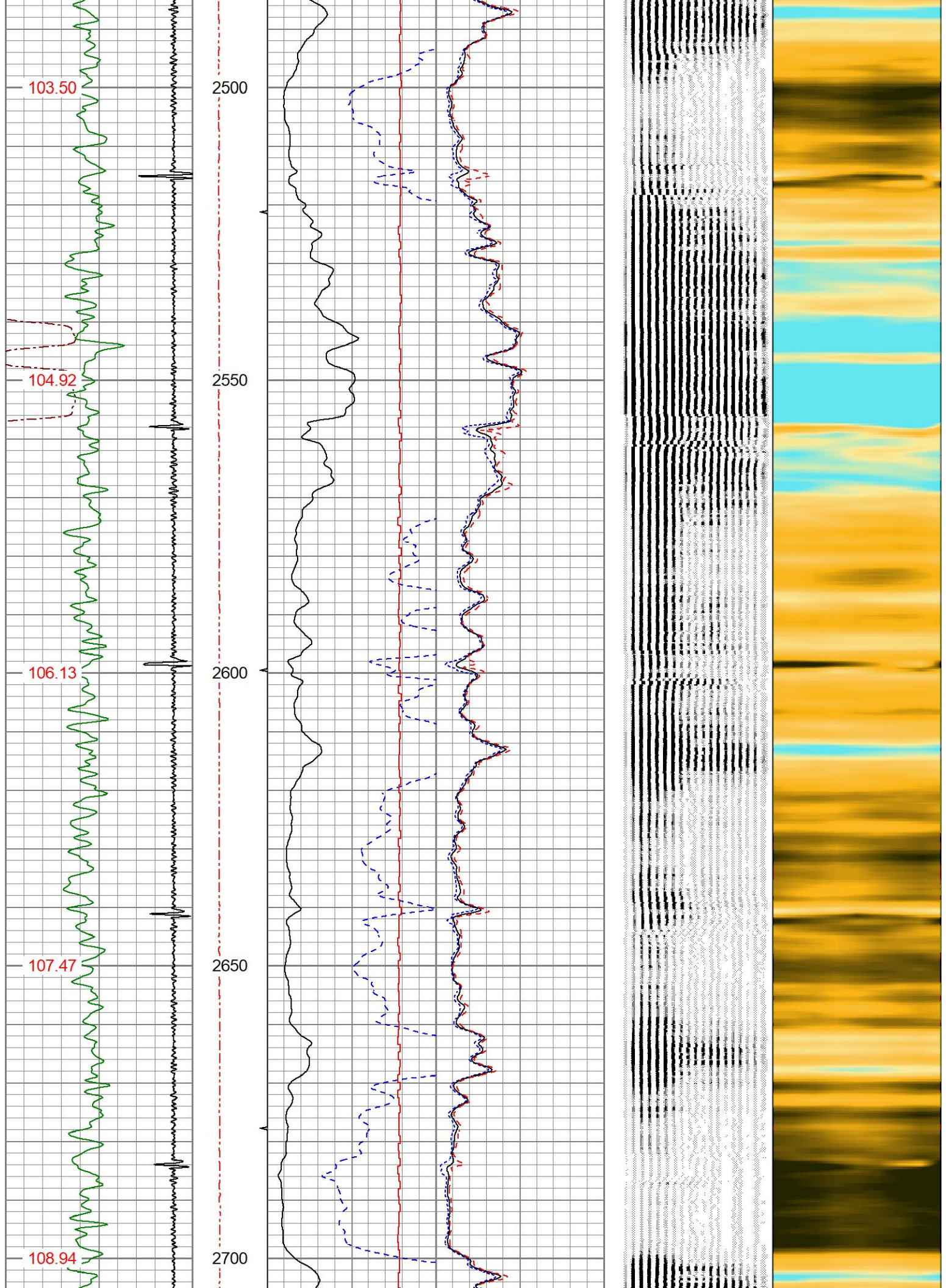


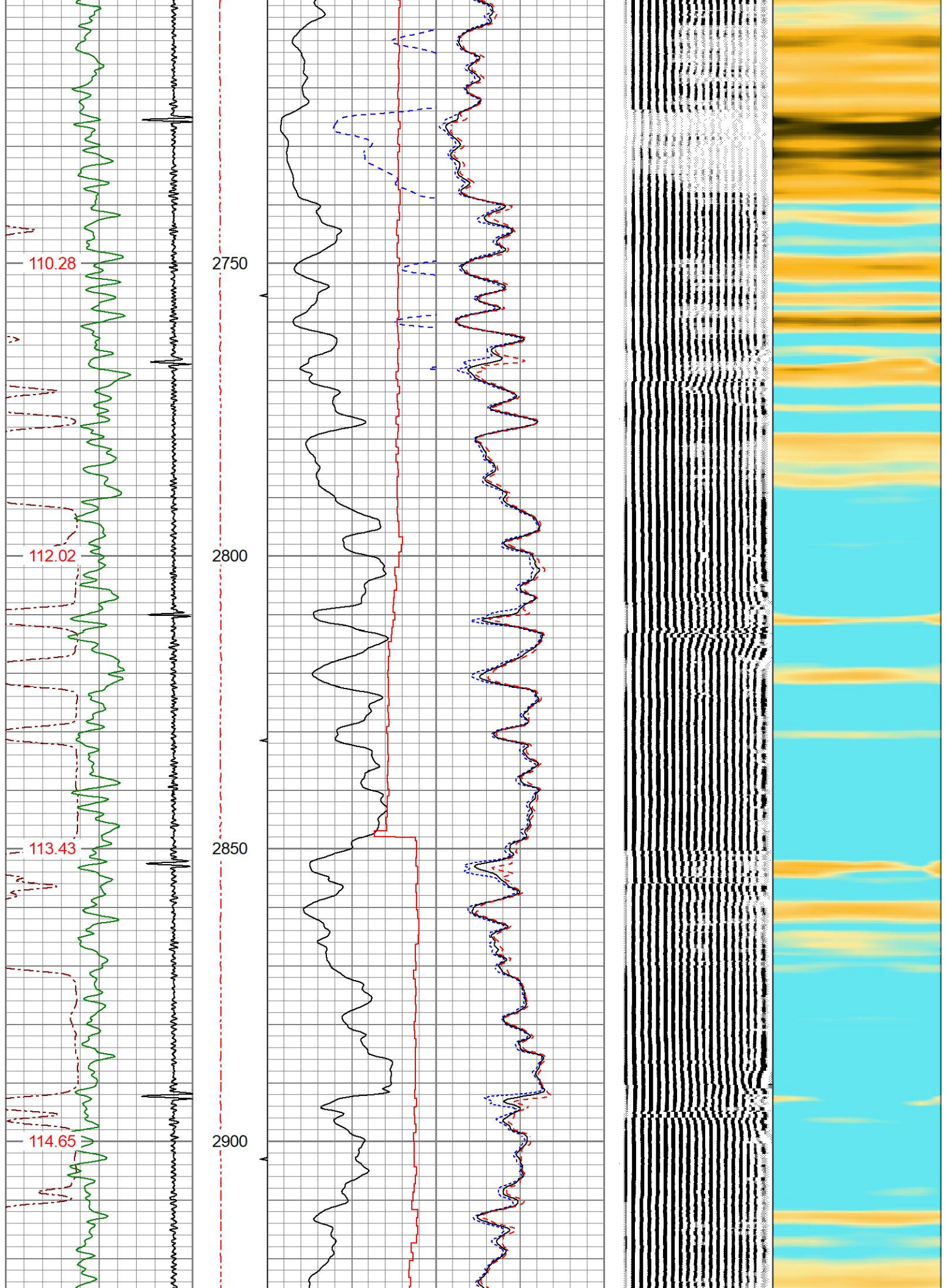


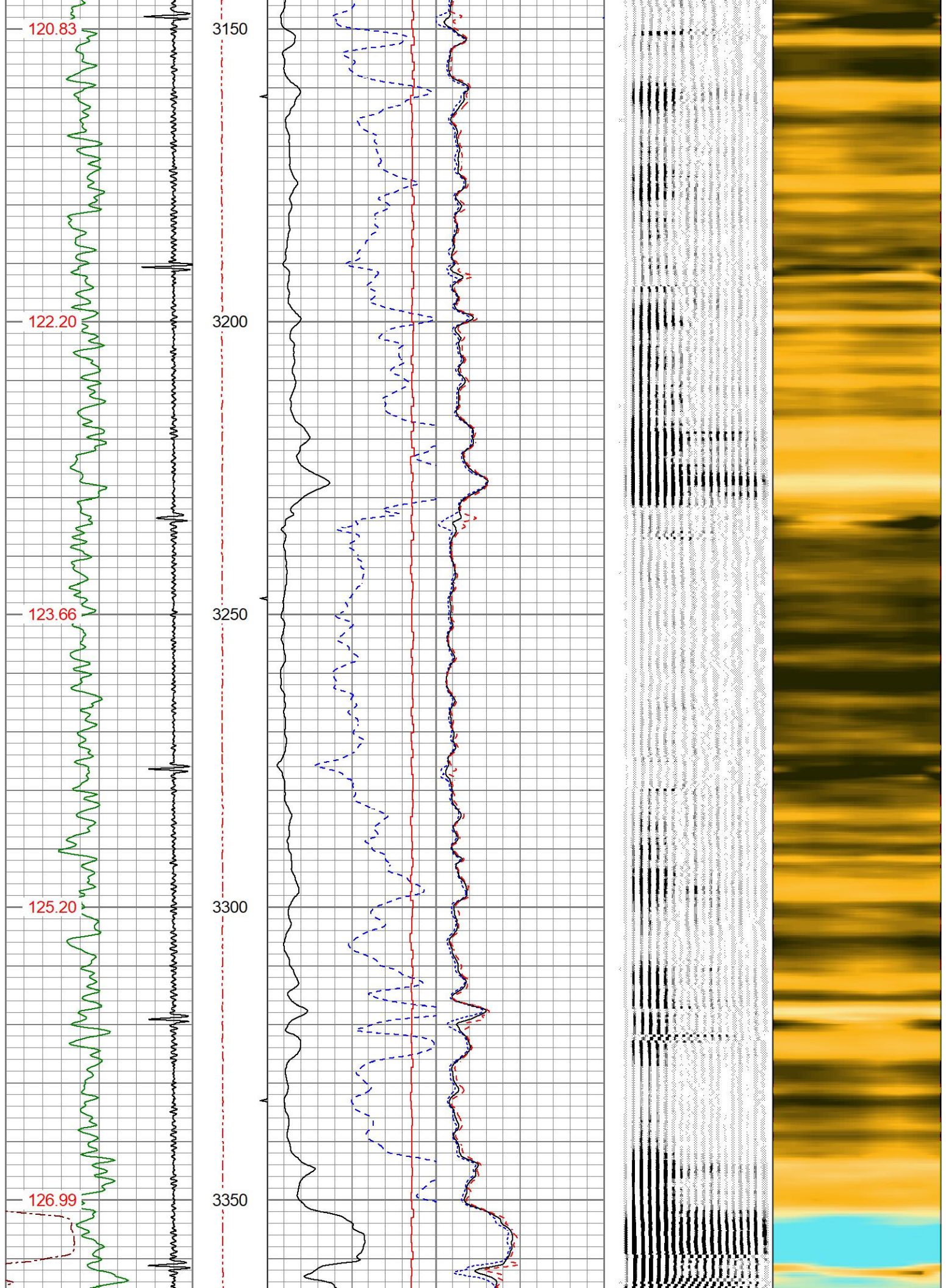


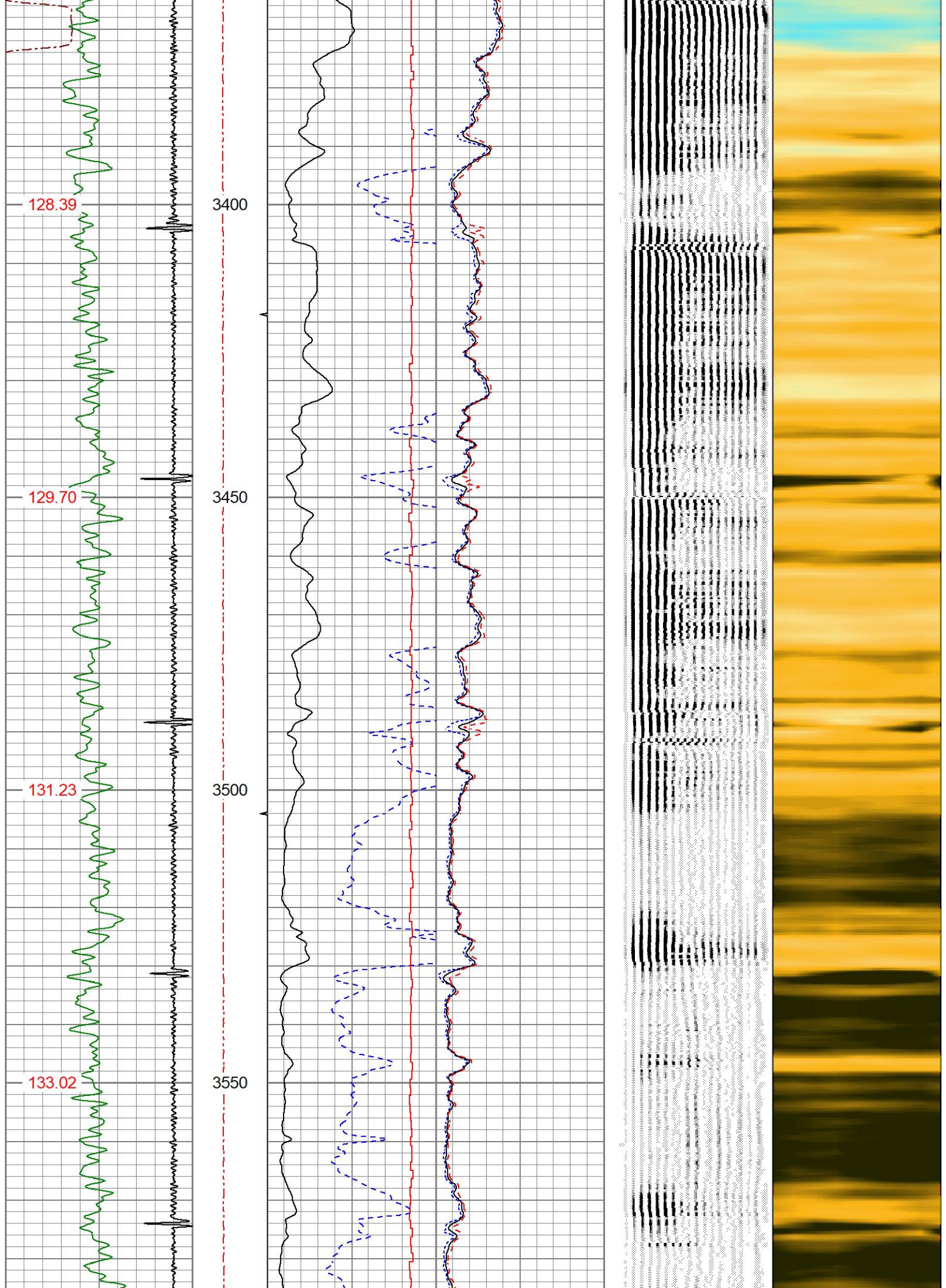


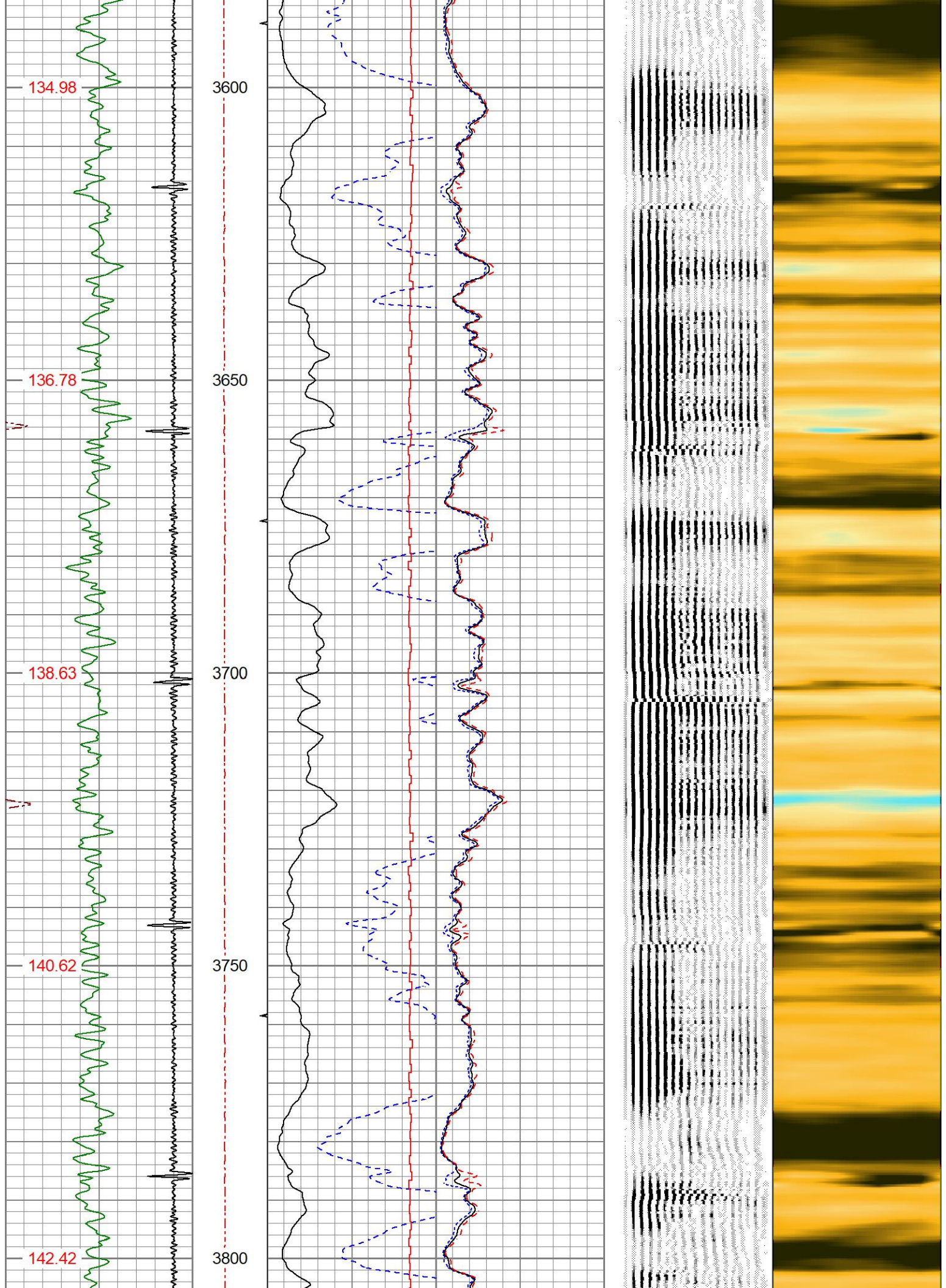


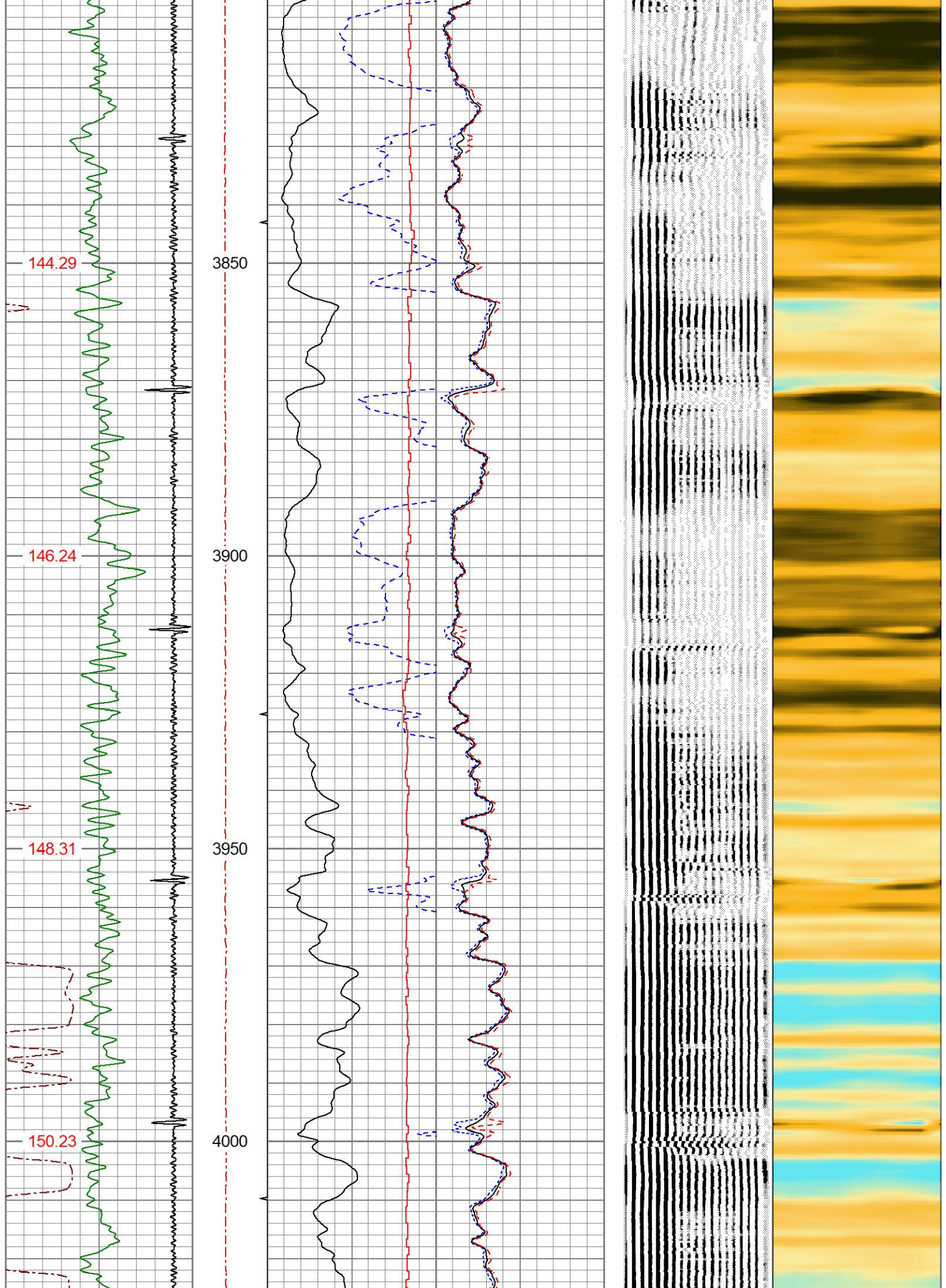


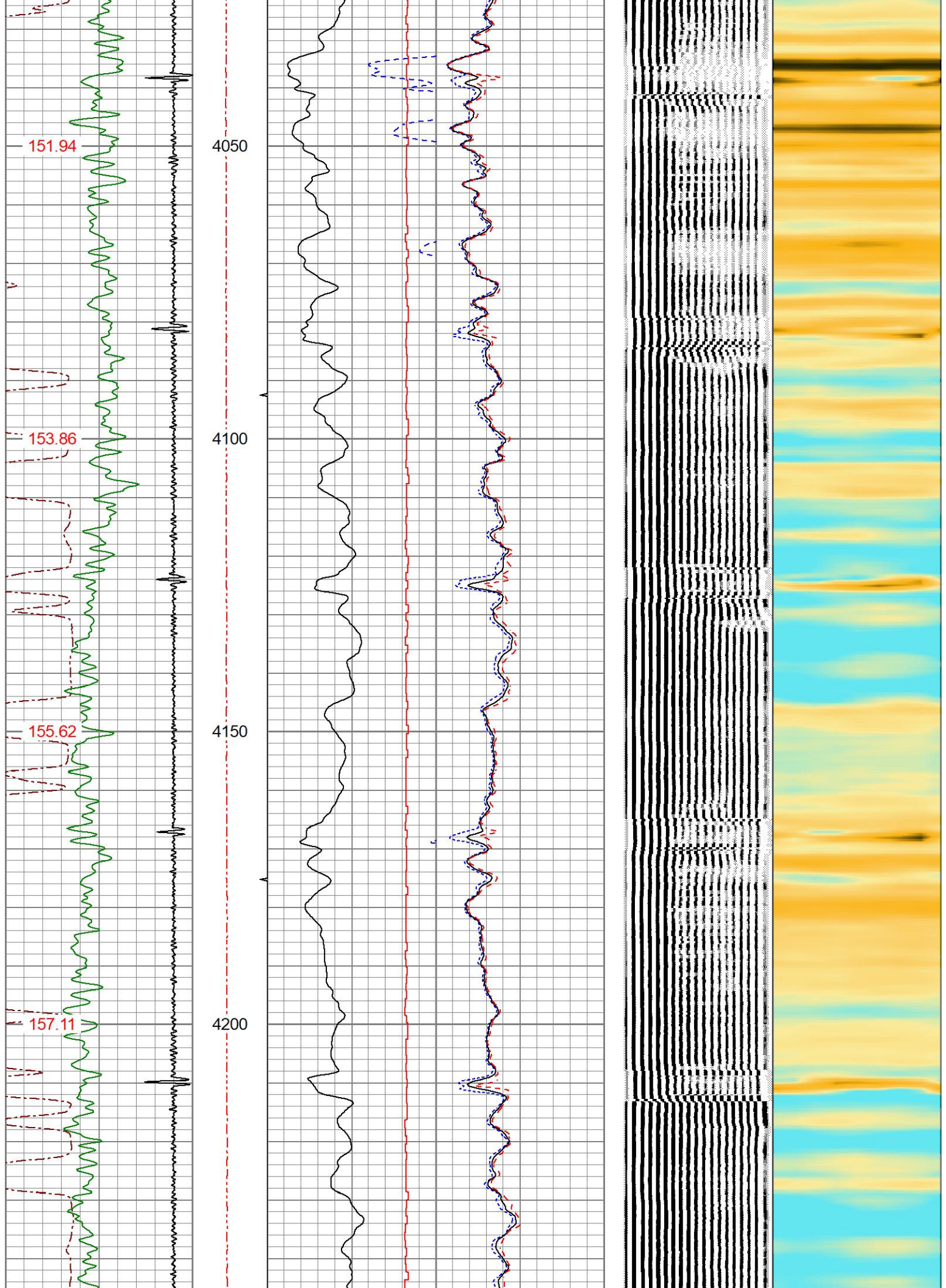


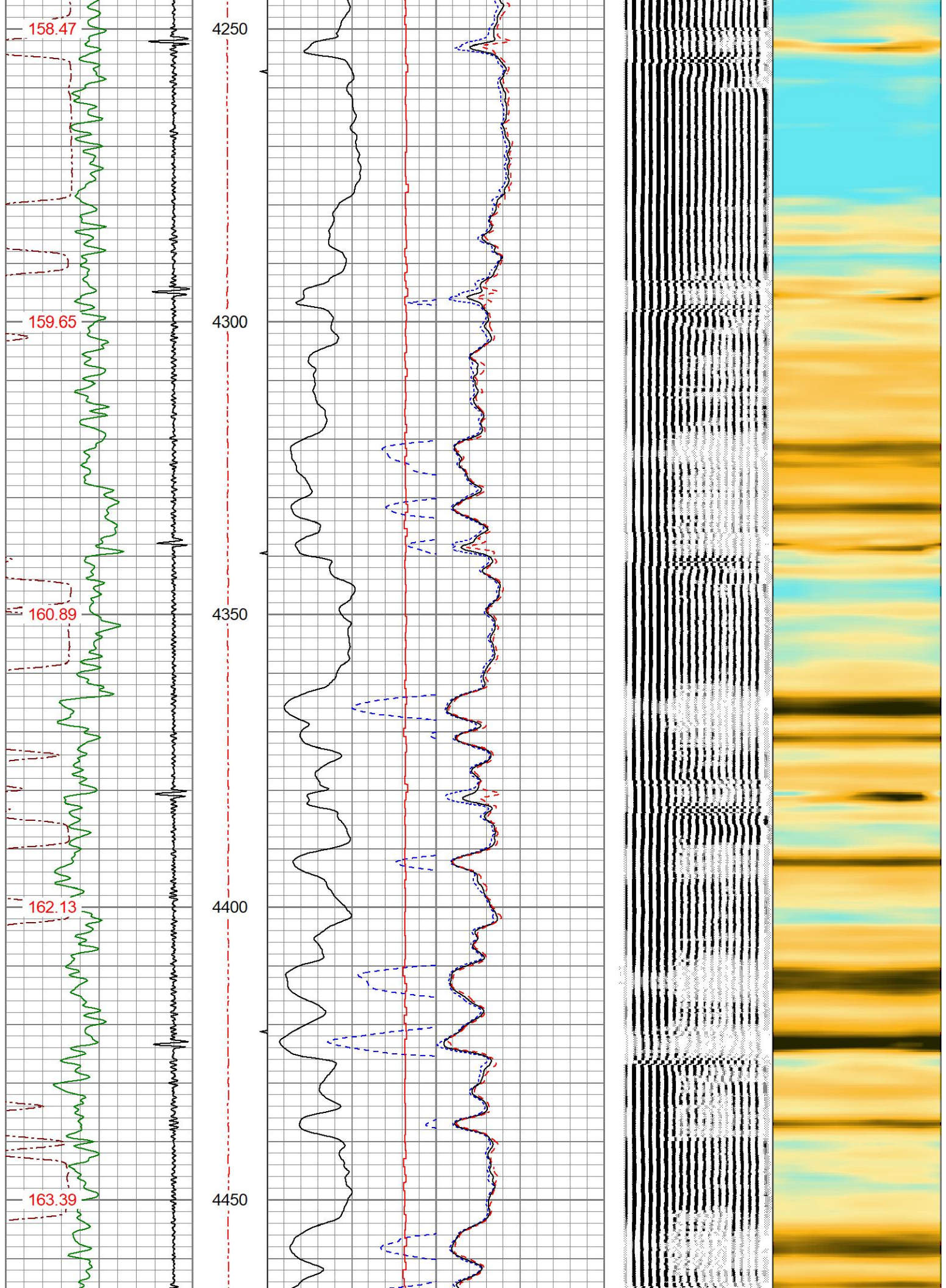


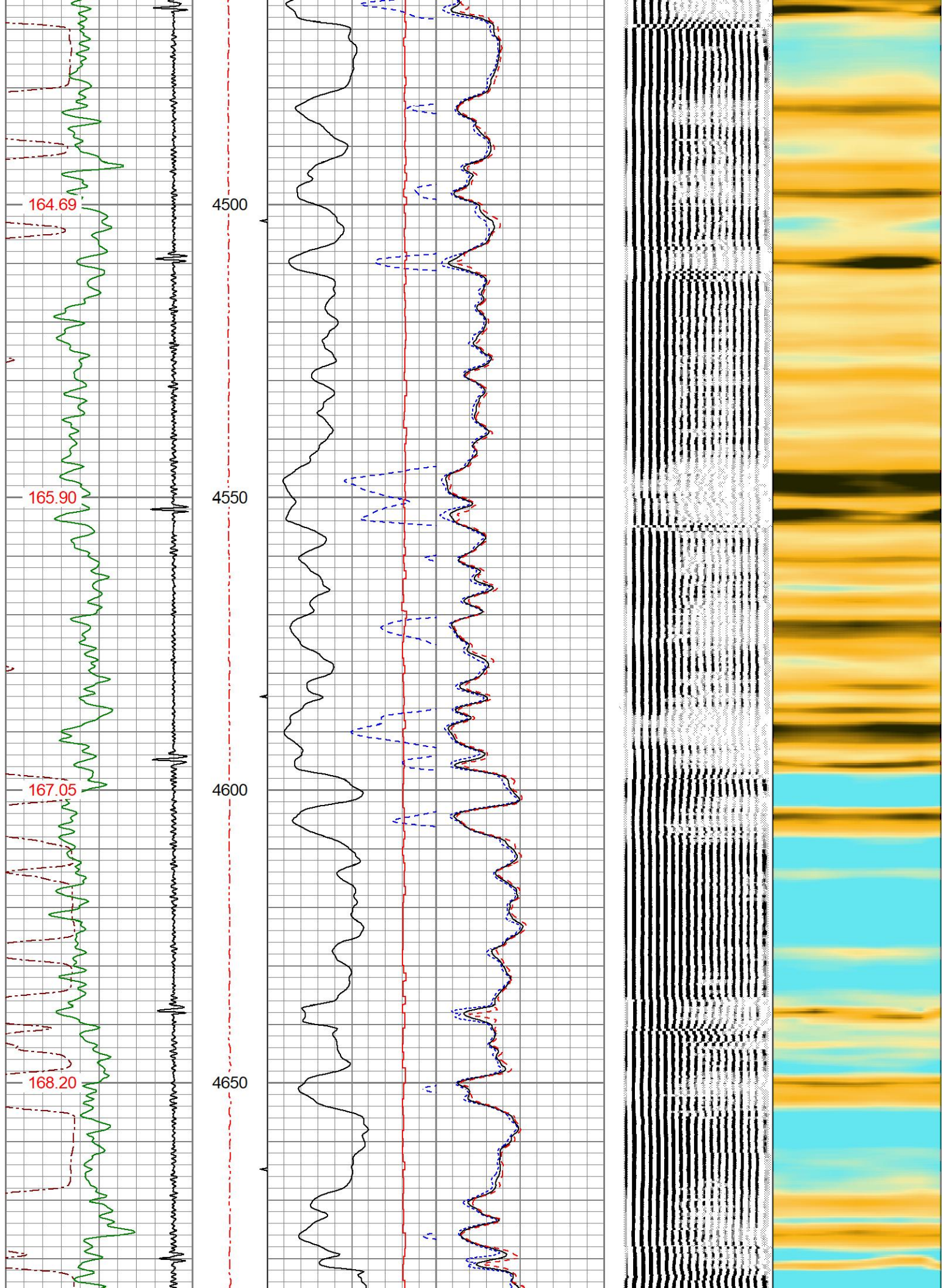


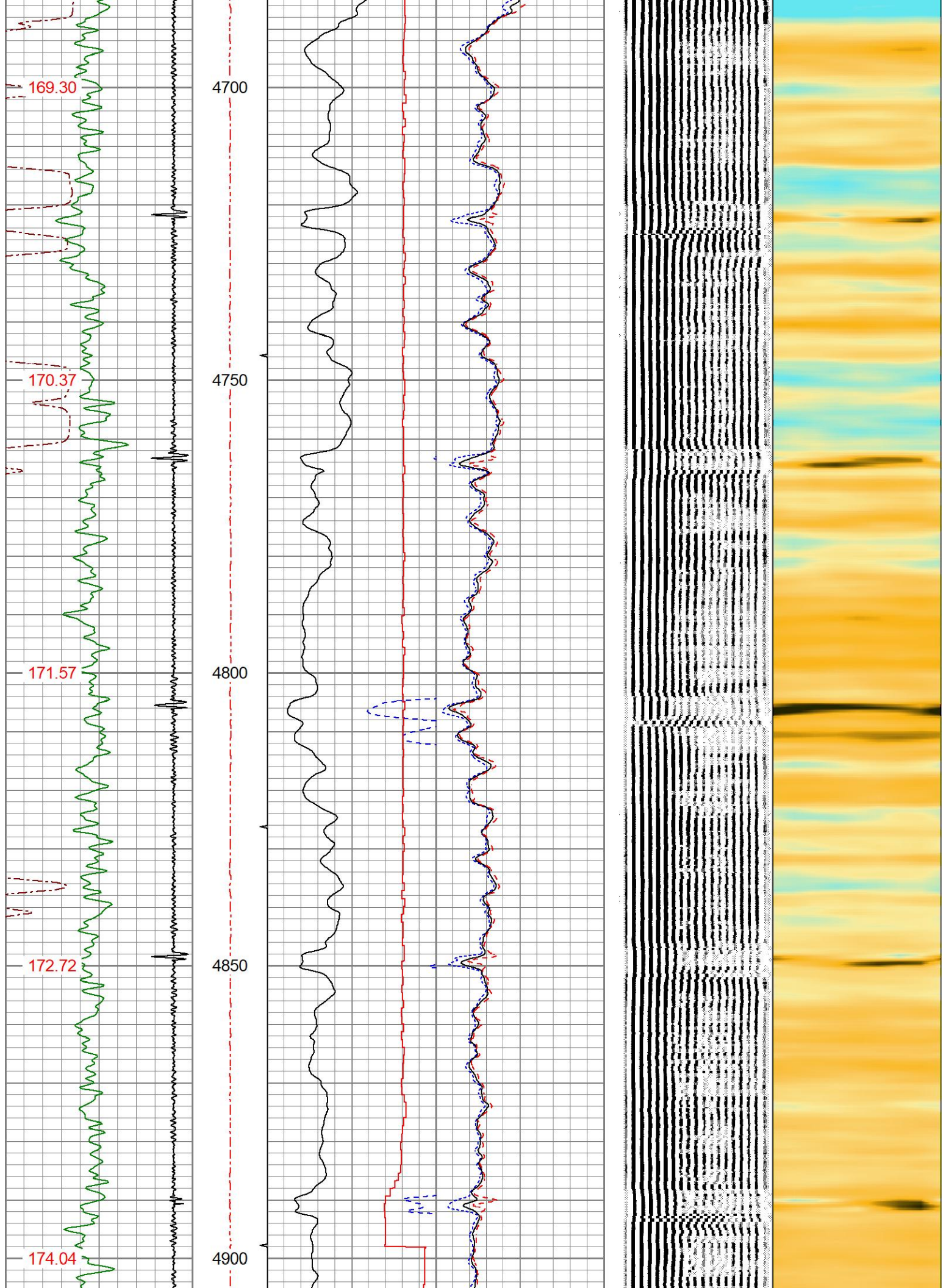


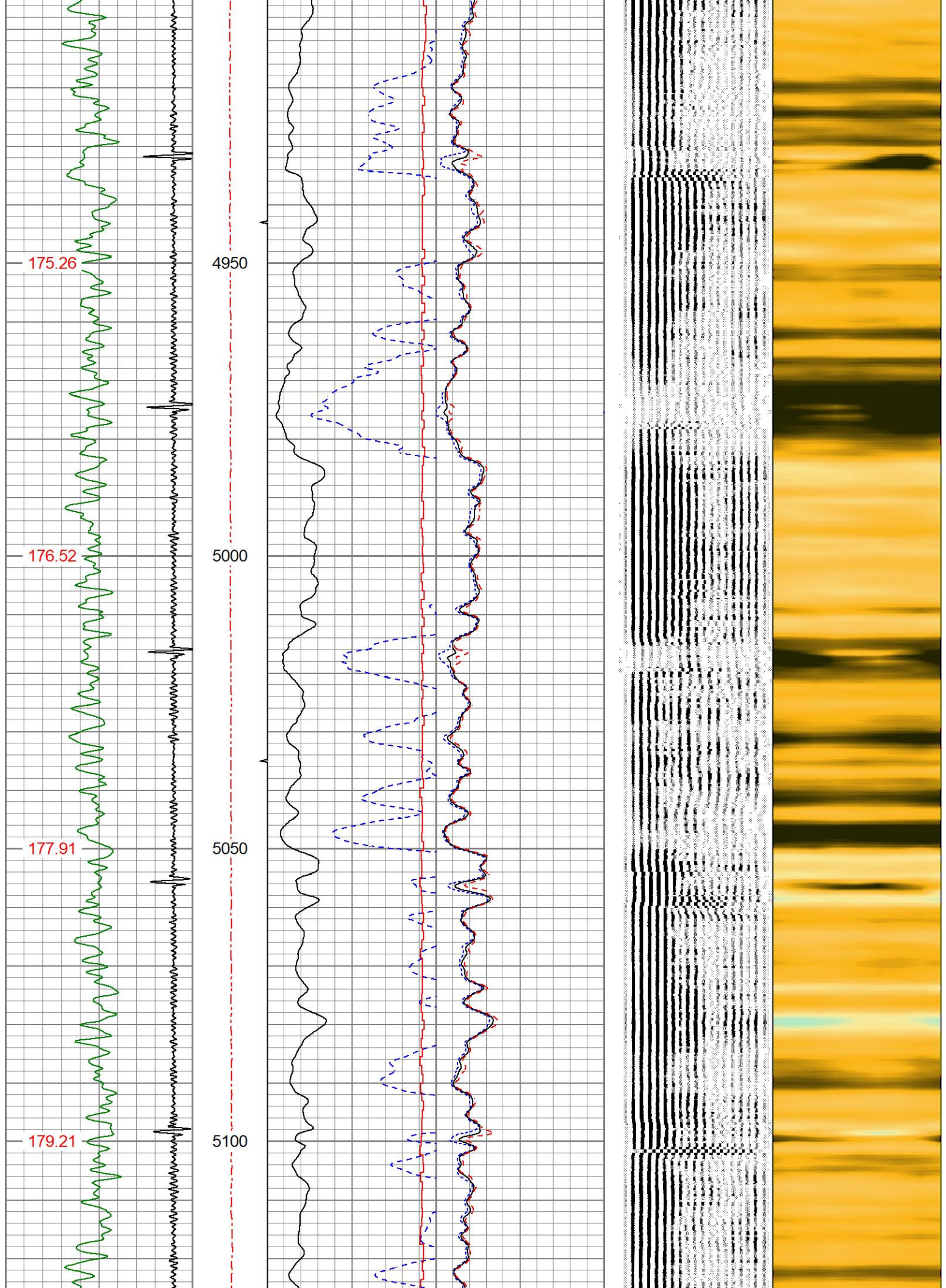


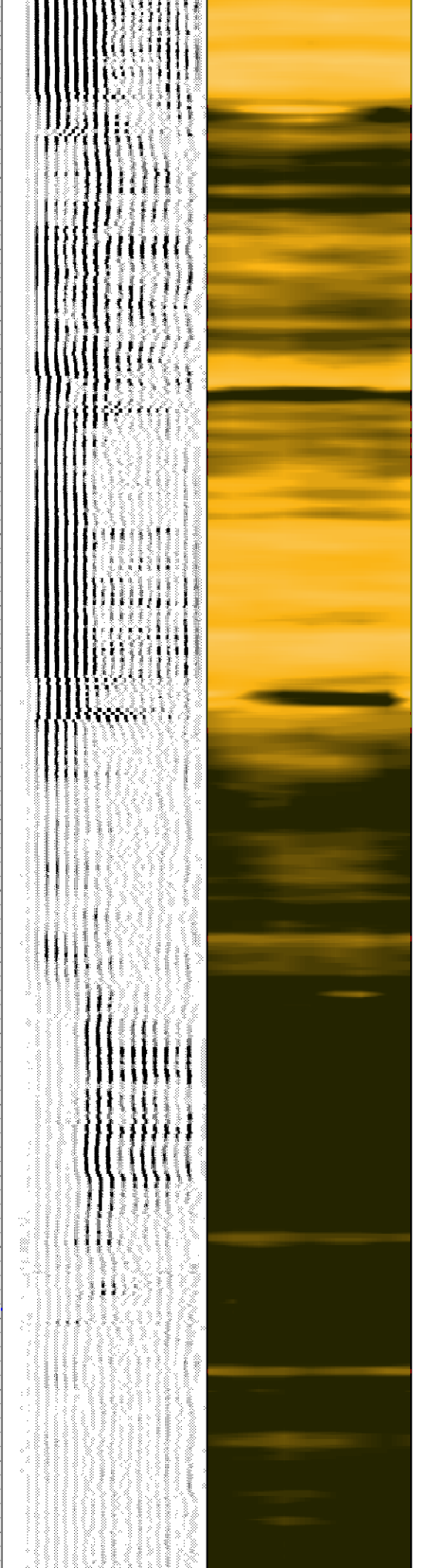
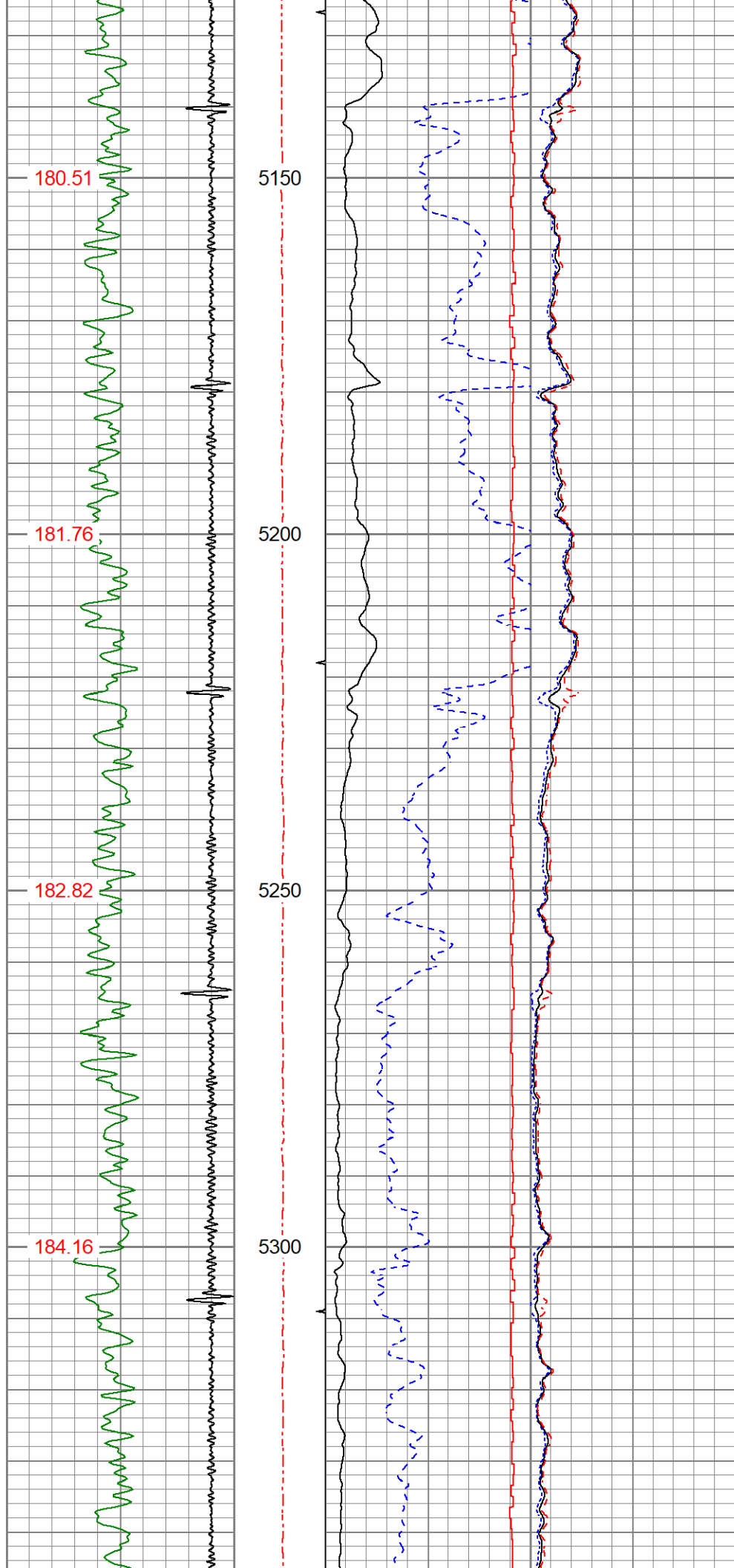


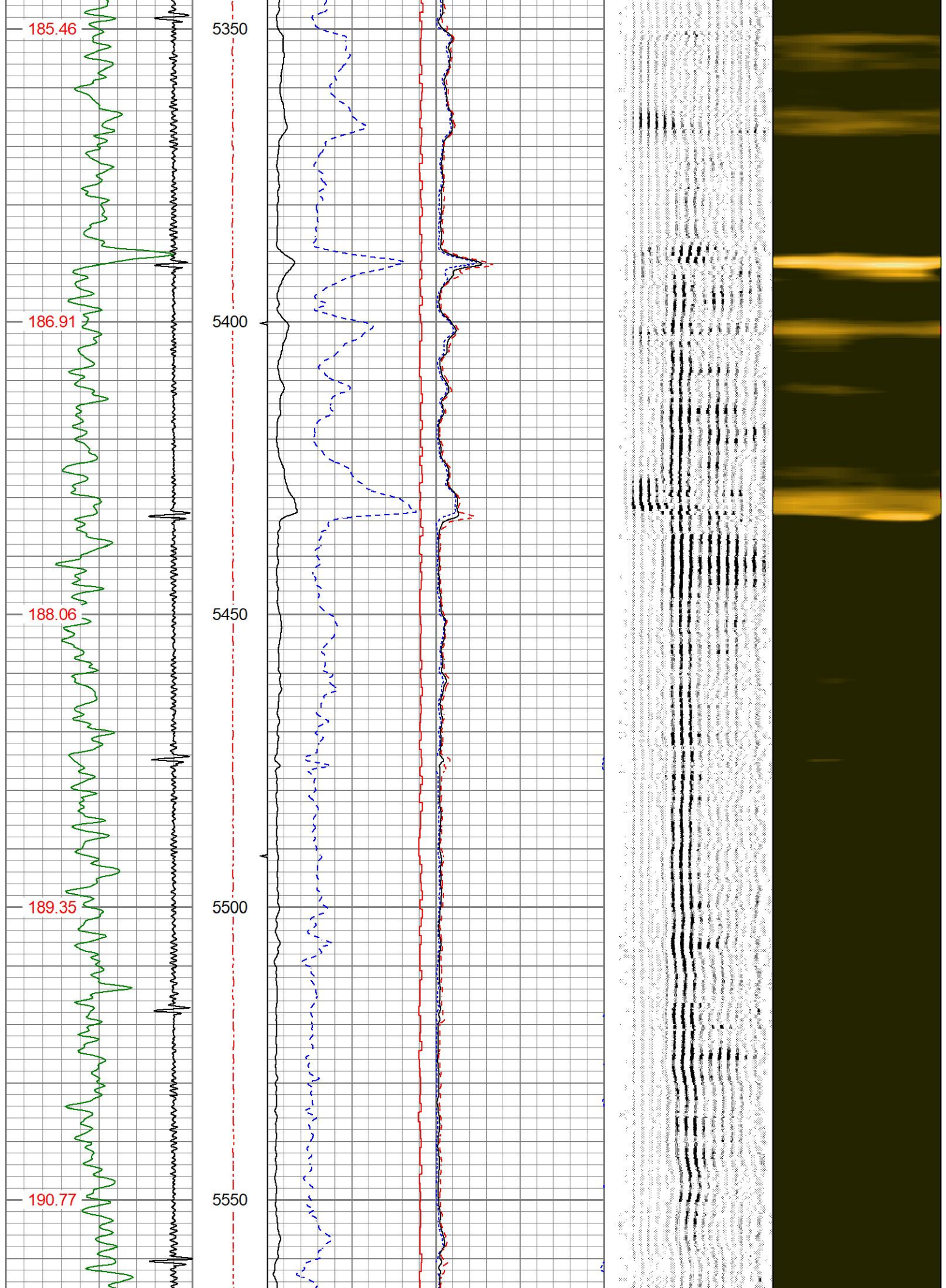


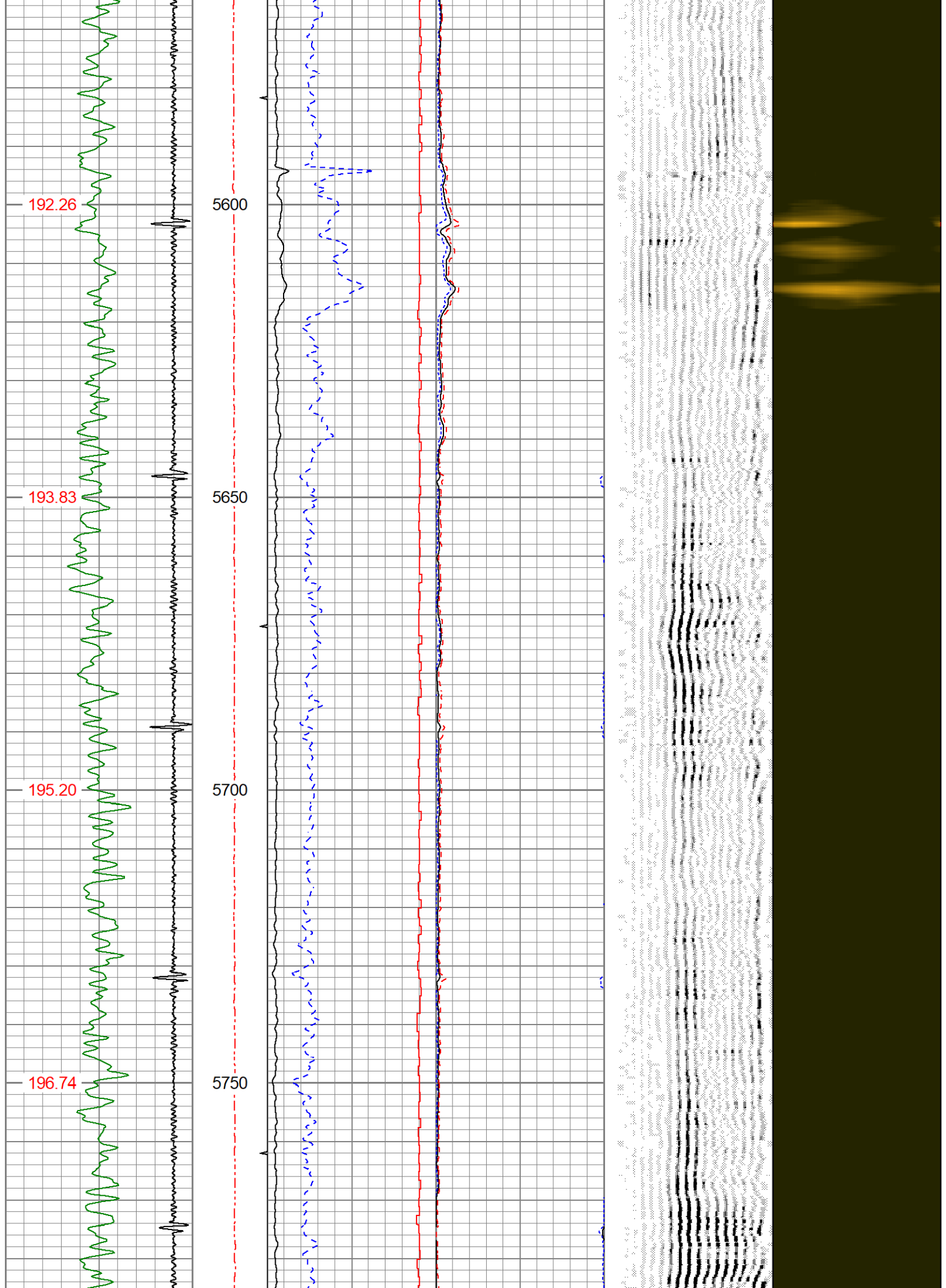


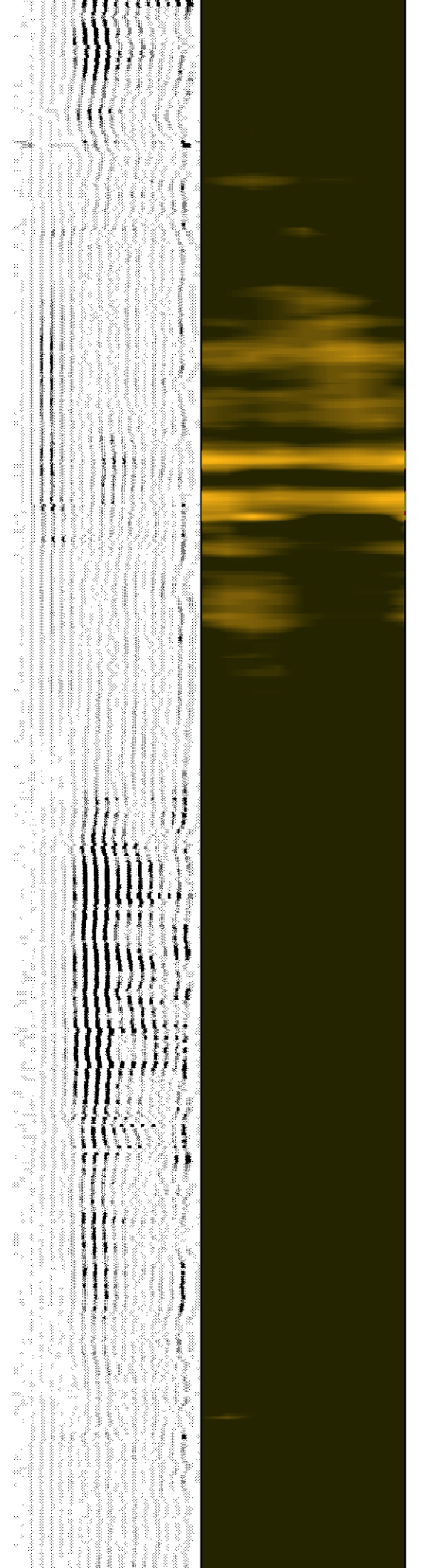
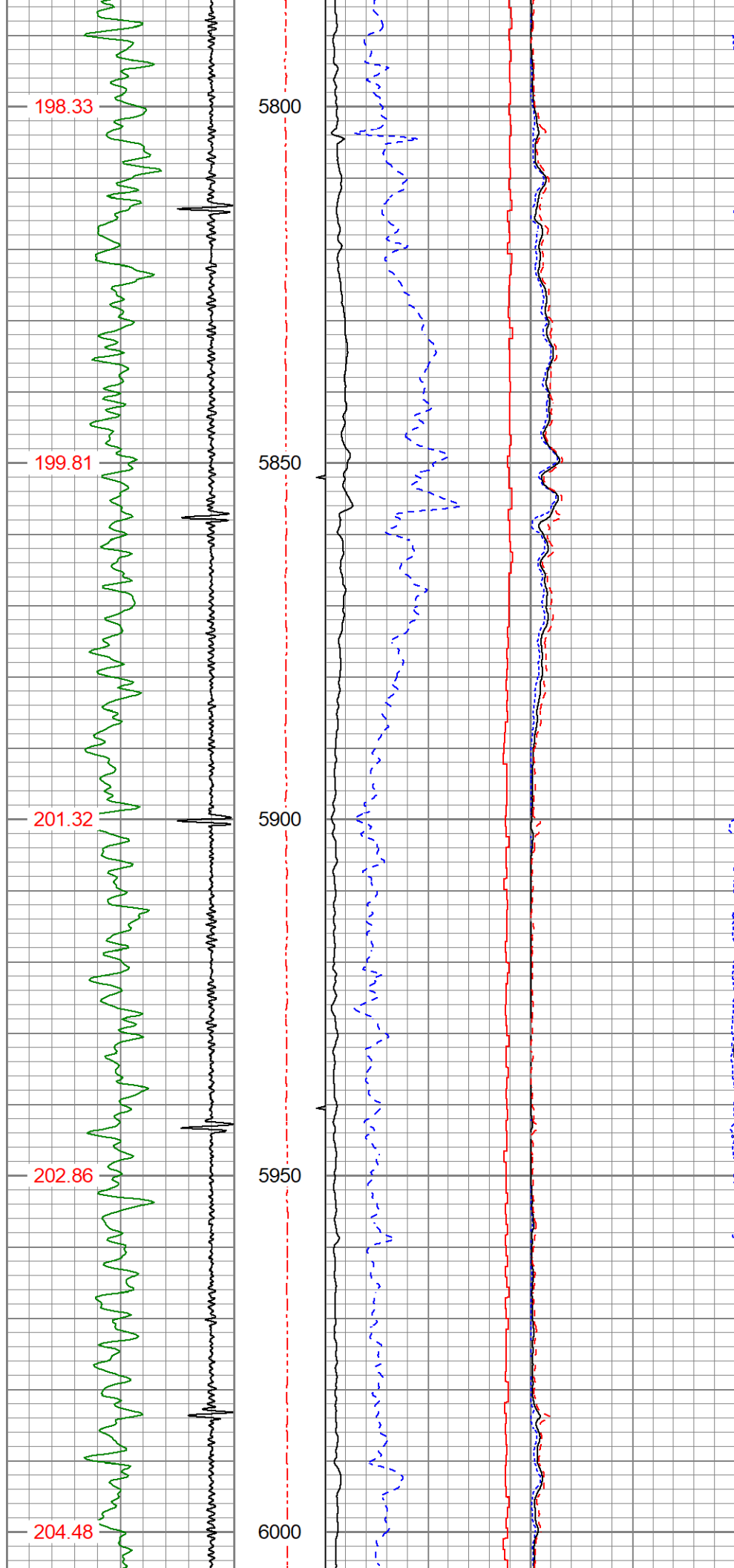


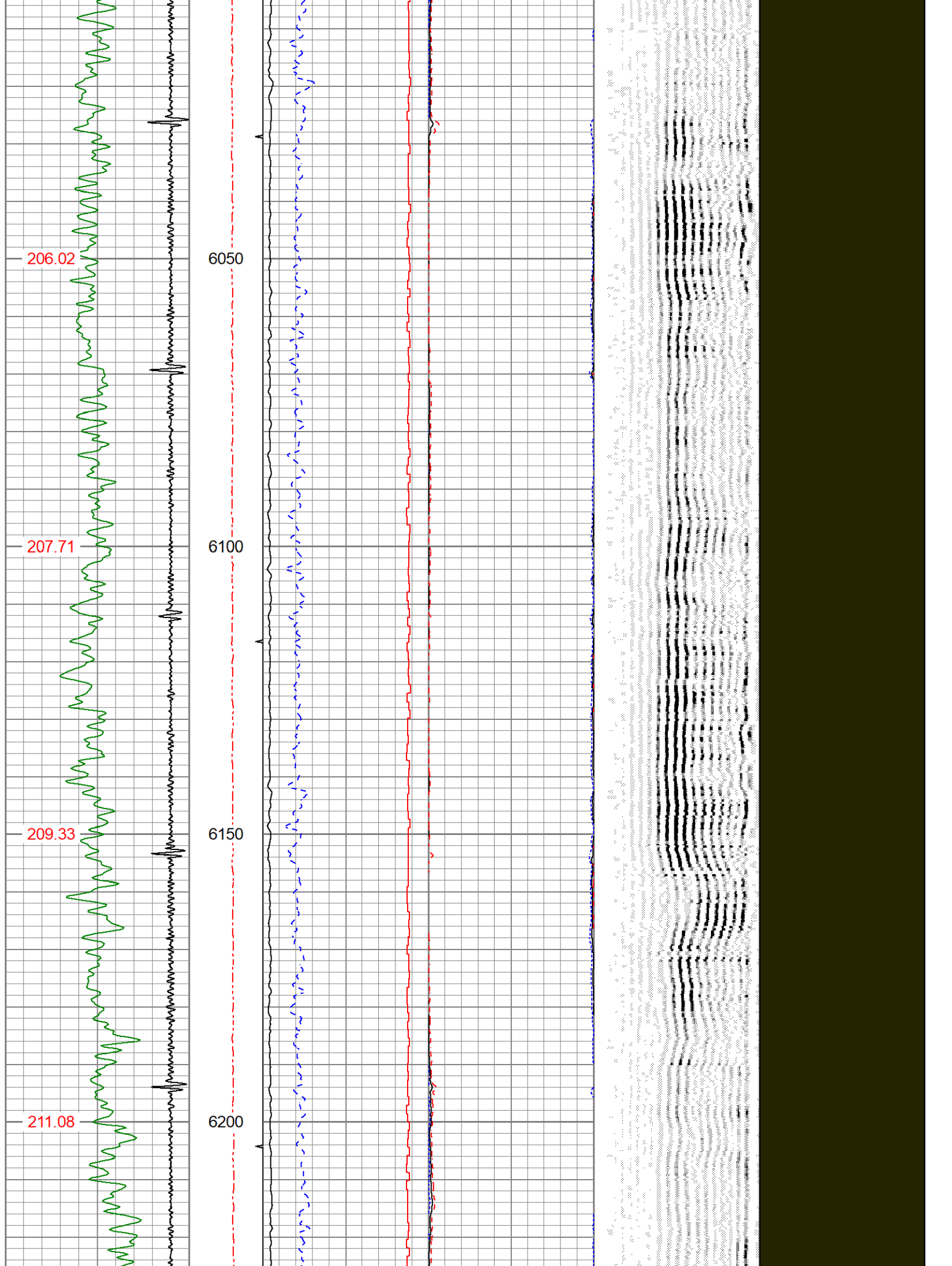


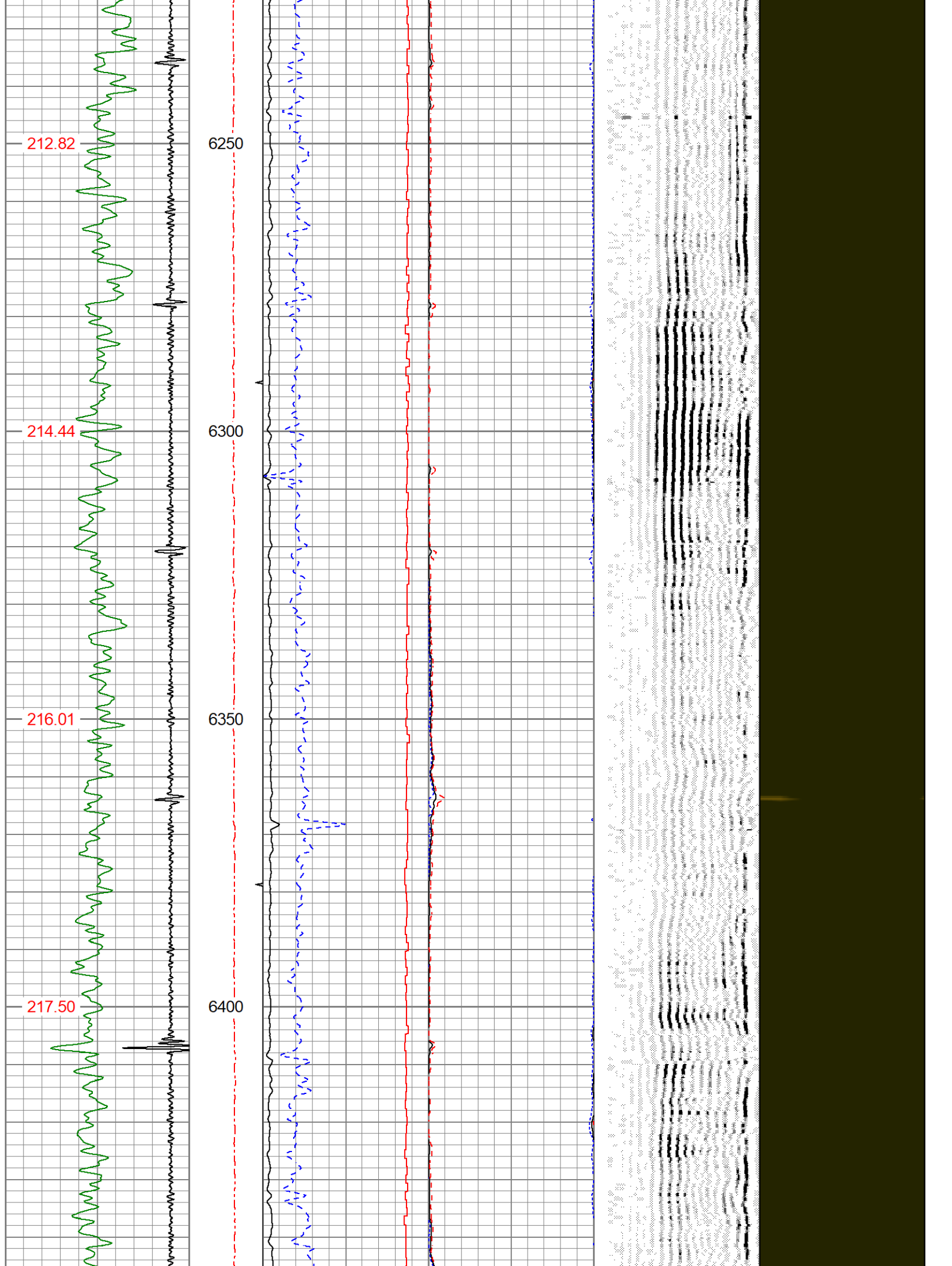


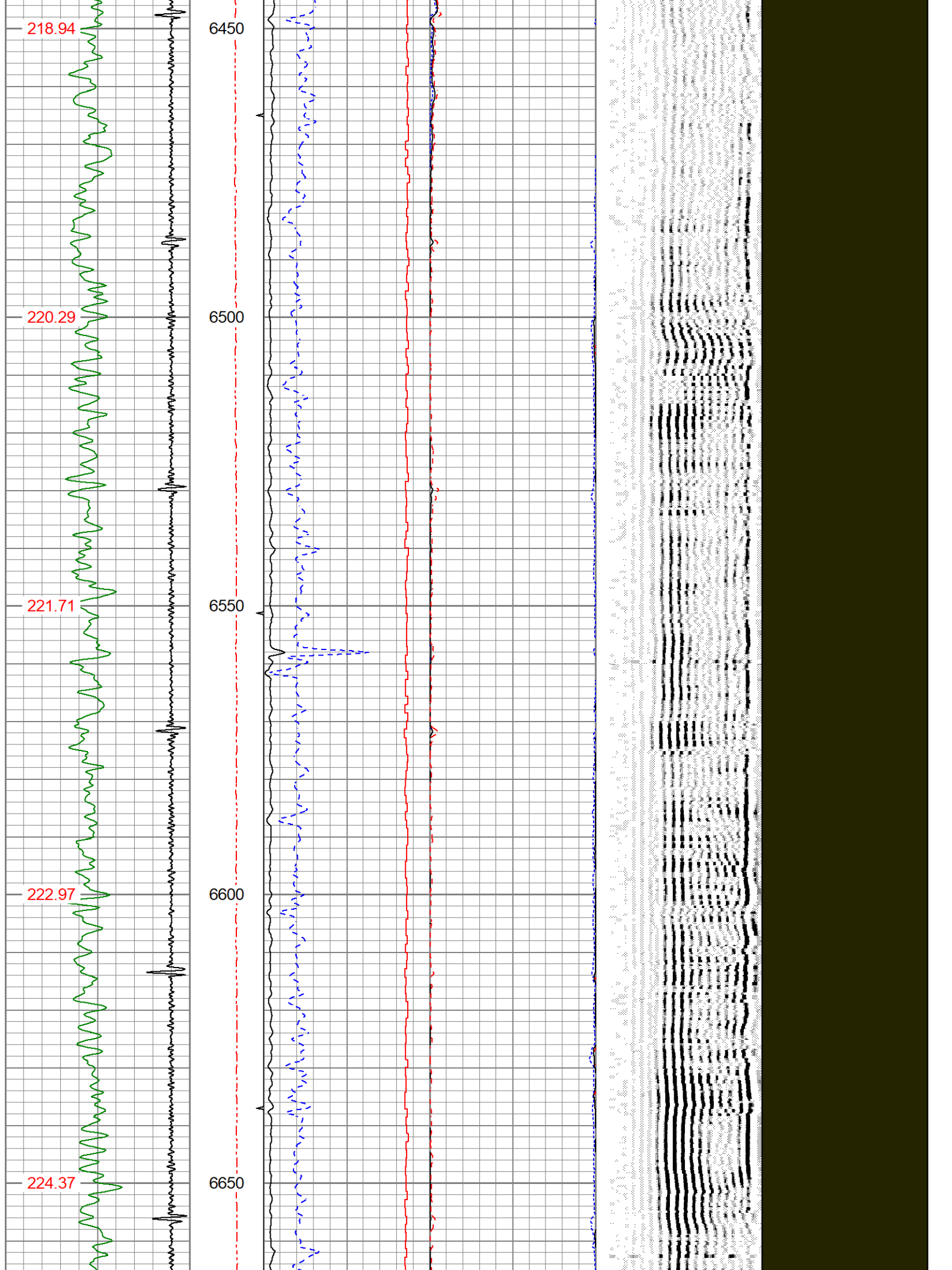


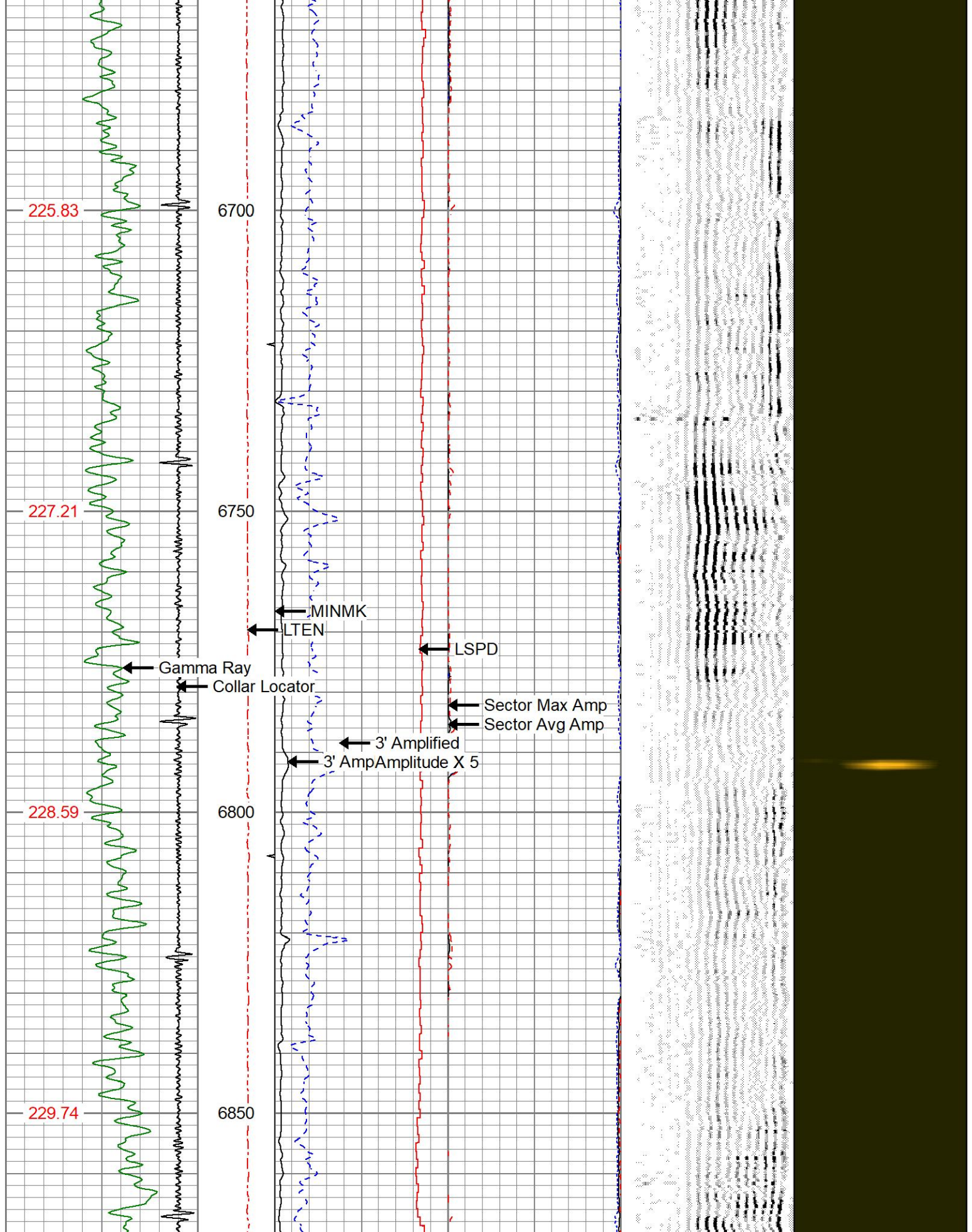












250	3FT TT (usec)	150	LTEN	3' Amplitude	0	Sector Min Amp	150	200	VDL (usec)	1200	1	Sector Map	8
-9	Collar Locator	1	(lb)	(mV)	100	Sector Avg Amp							
0	Gamma Ray	150	0	2000	3' Amplified	0	150						

TEMP (degF)	MINMK		Amplitude X 5		Sector Max Amp	
	10	0	0	(mV)	20	0
			0 LSPD (ft/min)-100			

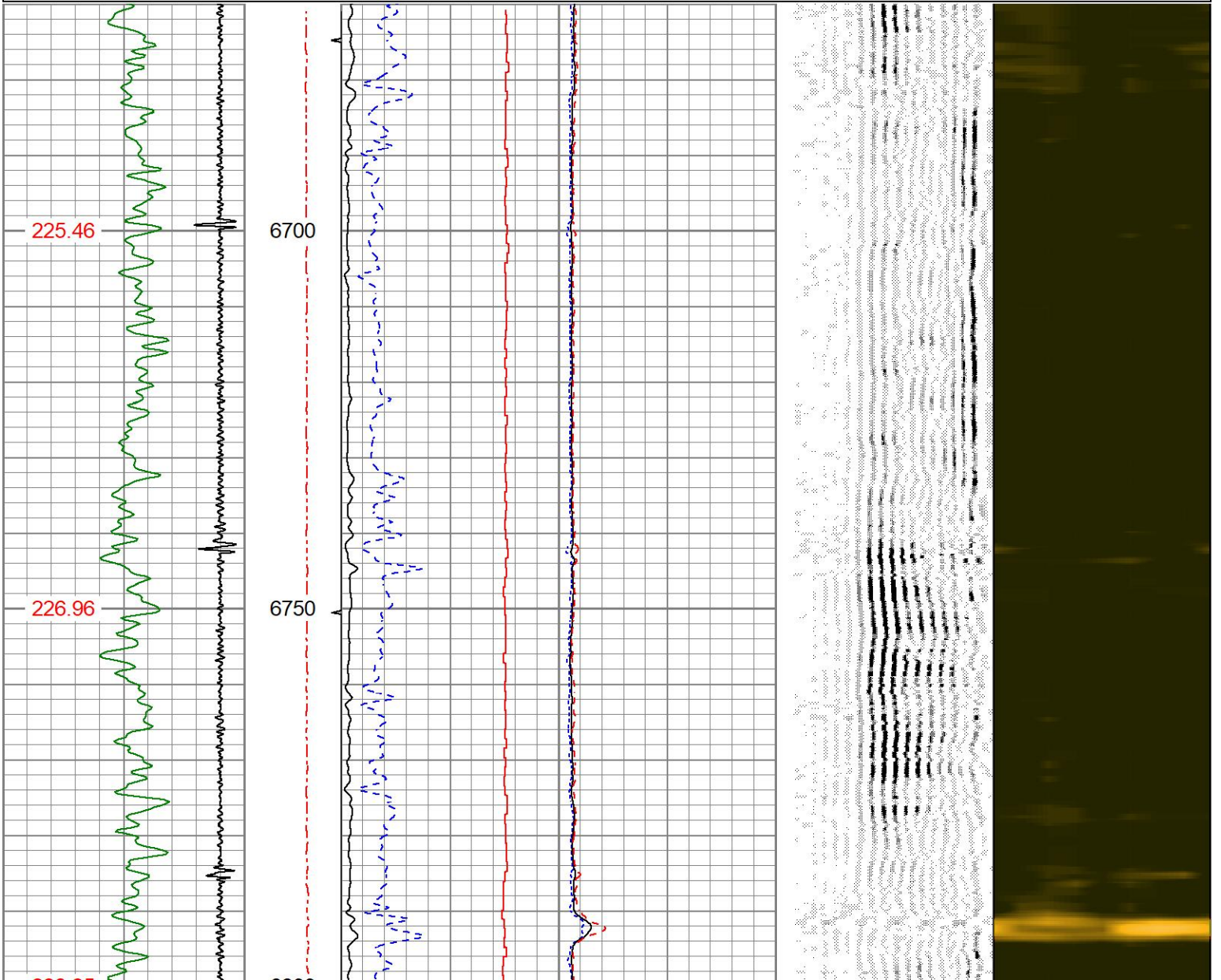


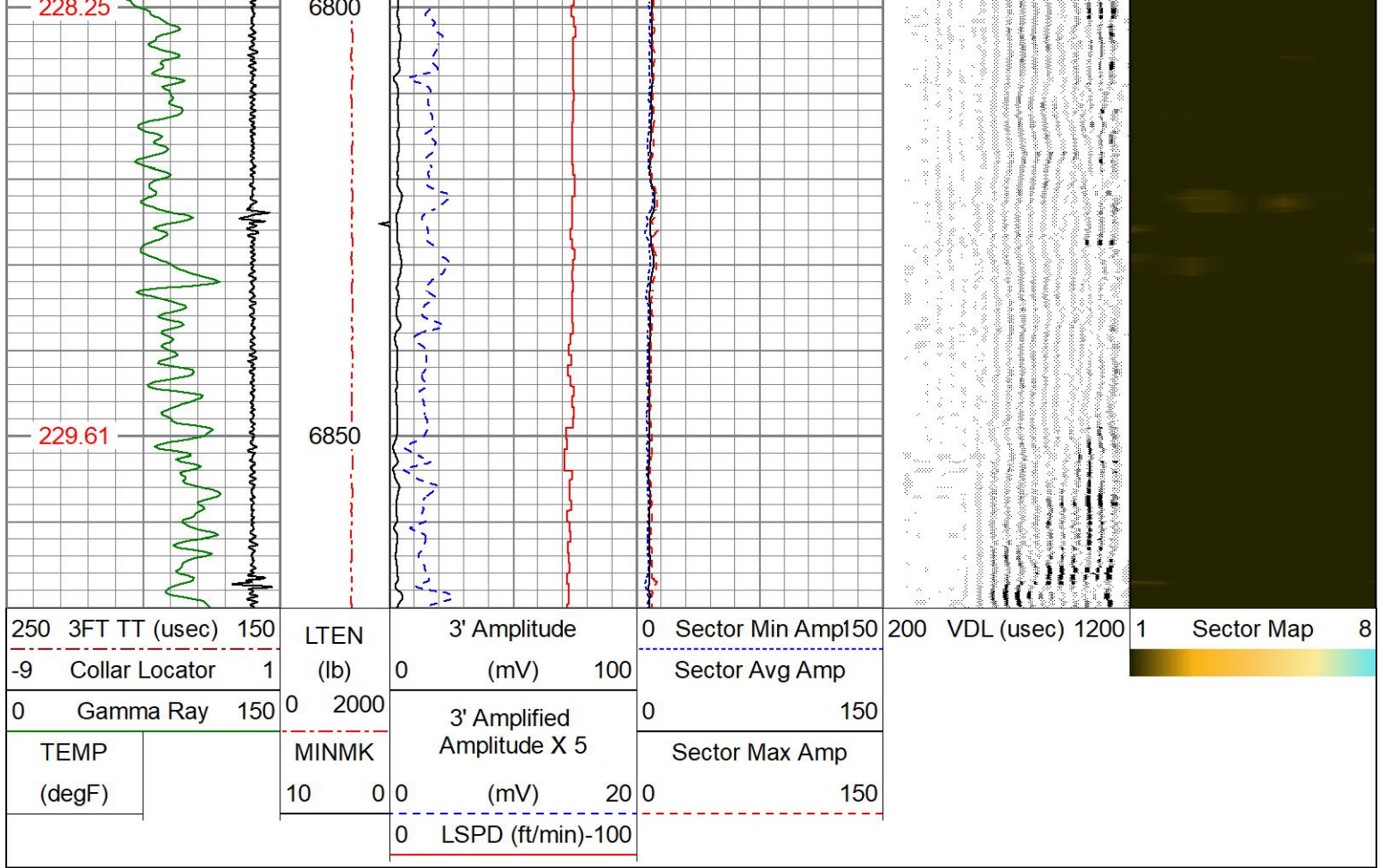
REPEAT PASS

RECORDED @ ZERO PSI

Database File dechant_usx_x29-06_cbl.db
 Dataset Pathname Dechant_USX_X29-06/run1/pass26
 Presentation Format res_scb_l_co
 Dataset Creation Tue Nov 15 11:33:58 2022
 Charted by Depth in Feet scaled 1:240

250 3FT TT (usec) 150	LTEN	3' Amplitude	0 Sector Min Amp	150	200 VDL (usec) 1200	1 Sector Map	8
-9 Collar Locator 1	(lb)	(mV)	Sector Avg Amp				
0 Gamma Ray 150	0 2000	3' Amplified Amplitude X 5	0	150			
TEMP	MINMK	(mV)	Sector Max Amp	150			
(degF)	10 0	0					
		0 LSPD (ft/min)-100					





Calibration Report

Database File dechant_usx_x29-06_cbl.db
 Dataset Pathname Dechant_USX_X29-06/run1/pass27.1
 Dataset Creation Tue Nov 15 13:11:12 2022

Gamma Ray Calibration Report

Serial Number: 0111
 Tool Model: Tek-Co 2 3/4
 Performed: Fri Feb 11 13:12:34 2022
 Calibrator Value: 1.0
 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps
 Sensitivity: 0.6700 /cps

Segmented Cement Bond Log Calibration Report

Serial Number: 275001
 Tool Model: 275 Temp JS
 Calibration Casing Diameter: 4.500 in
 Calibration Depth: 2290.158 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.015	1.464	0.700	81.196	54.414	1.527
CAI	0.000	1.007				

5'	0.011	2.135	0.700	81.196	37.908	0.267
SUM						
S1	0.185	1.692	0.000	100.000	66.366	-12.273
S2	0.164	1.704	0.000	100.000	64.937	-10.672
S3	0.168	1.677	0.000	100.000	66.276	-11.160
S4	0.153	1.681	0.000	100.000	65.454	-10.036
S5	0.137	1.641	0.000	100.000	66.491	-9.095
S6	0.179	1.702	0.000	100.000	65.675	-11.753
S7	0.173	1.695	0.000	100.000	65.733	-11.392
S8	0.182	1.690	0.000	100.000	66.335	-12.101

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	1.007	1.000	0.000

Air Zero Calibration, performed Tue Nov 15 09:48:31 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: 275001
 Tool Model: 275 Temp JS
 Performed: Wed Dec 21 10:28:52 2016

	Reference	Reading
Low Reference:	0.00 degF	0.00 usec
High Reference:	1.00 degF	1.00 usec

Gain: 0.33
 Offset: 0.00
 Delta Spacing: 1



Company: **OCCIDENTAL PETROLEUM CORP.**
 Well: **DECHANT USX X29-06**
 Field: **WATTENBURG**
 County: **WELD**
 State: **CO**