



**SECTOR CEMENT BOND
GAMMA RAY
CCL LOG**

Comp. OCCIDENTAL PETROLEUM CORP.
Well KODAK 34-11
Field WATTENBURG
Co. WELD
State CO

Company **OCCIDENTAL PETROLEUM CORP.**
Well **KODAK 34-11**
Field **WATTENBURG**
County **WELD** State **CO**

Location: API #: 05-123-22097 Other Services
SEC 34 TWP 6N RGE 67W
Permanent Datum GL Elevation 4754
Log Measured From KB 12' Above Perm. Datum
Drilling Measured From KB
K.B. 4754
D.F. NA
G.L. 4742

Date of Service	OCT-19-2023
Run Number	ONE
Depth Driller or PBTD	7238'
Depth Logger	6250'
Bottom Log Interval	6250'
Top Log Interval	SURFACE
Open Hole Size	12-1/4"
Type Fluid	H2O
Fluid Level	SURFACE
Fluid Density	NA
Max. Recorded Temperature	202
Max. Wellhead Pressure	ZERO
Wellhead Connection	5K
Estimated Cement Top	
Unit Number	L-15
Wireline Size	9/32"
Location	BRIGHTON
Recorded By	J. SMITH
Witnessed By	K. WIESER
Surface Casing	Size 8 5/8" Wt# 24# Top SURFACE Bottom 401'
Production Casing	Size 4 1/2" Wt# 11.6# Top SURFACE Bottom 7230'
Liner Casing	
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.

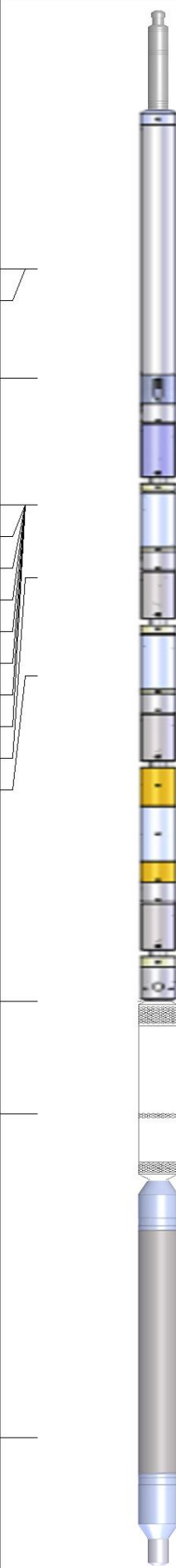
Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
THANK YOU FOR USING RANGER ENERGE SERVICES !

THANK YOU FOR USING RANGER ENERGY SERVICES! FIELD TICKET #

Your Ranger Energy Services Crew	Tool Data - Services	Serial Number
Engineer: SMITH Operator: BOND Operator: Operator:		

Quantity	Offset (ft)	Schematic	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	13.27						
WVFCAL	13.27						
TEMP	12.15						
WVFS8	10.85						
WVFS7	10.85						
WVFS6	10.85			SCBLTEKSECT-275 Temp JS (275001) TekCo 2 3/4" 400 Deg. F Sector Tool with Temperature (JS)	9.13	2.75	130.00
WVFS5	10.85						
WVFS4	10.85						
WVFS3	10.85						
WVFS2	10.85						
WVFS1	10.85						
WVF3FT	10.10						
WVF5FT	9.10						
WVFTEMP	5.77						
CCL	4.62		CCL-275tekco (111) Tekco 2 3/4" 450 Deg. F Rare Earth Magnets	1.83	2.75	33.00	
GR	1.31		GR-Tek-Co 2 3/4 (0111) Tekco 2 3/4" 400 Deg. F Logging Gamma Ray	3.67	2.75	40.00	
			Bull_Plug-1_7/16_GO Titan 1 7/16" Female Bull Plug	0.27	1.44	1.00	

603389_occidental_kodak 34-11_0512322097_20231910_scbl.db: field/603389_OCCIDENTAL_KODAK_34-11_0512322097/

h: 15.91 ft
 nt: 207.31 lb
 2.75 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\603389_occidental_kodak 34-11_0512322097_20231910_s
 Dataset field/603389_OCCIDENTAL_KODAK_34-11_051232209/run1/pass8/_vars_

Top - Bottom

BHTEMP_Src TEMP	BOREID in 8.75	BOTTEMP degF 100	CASEOD in 4.5	CASETHCK in 0.5	CASEWGHT lb/ft 11.6	MAXAMPL mV 81.2	MINAMPL mV 0.7
MINATTN db/ft 0.8	PERFS No	PPT usec 210.8	SRFTEMP degF 70	TDEPTH ft 0			

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

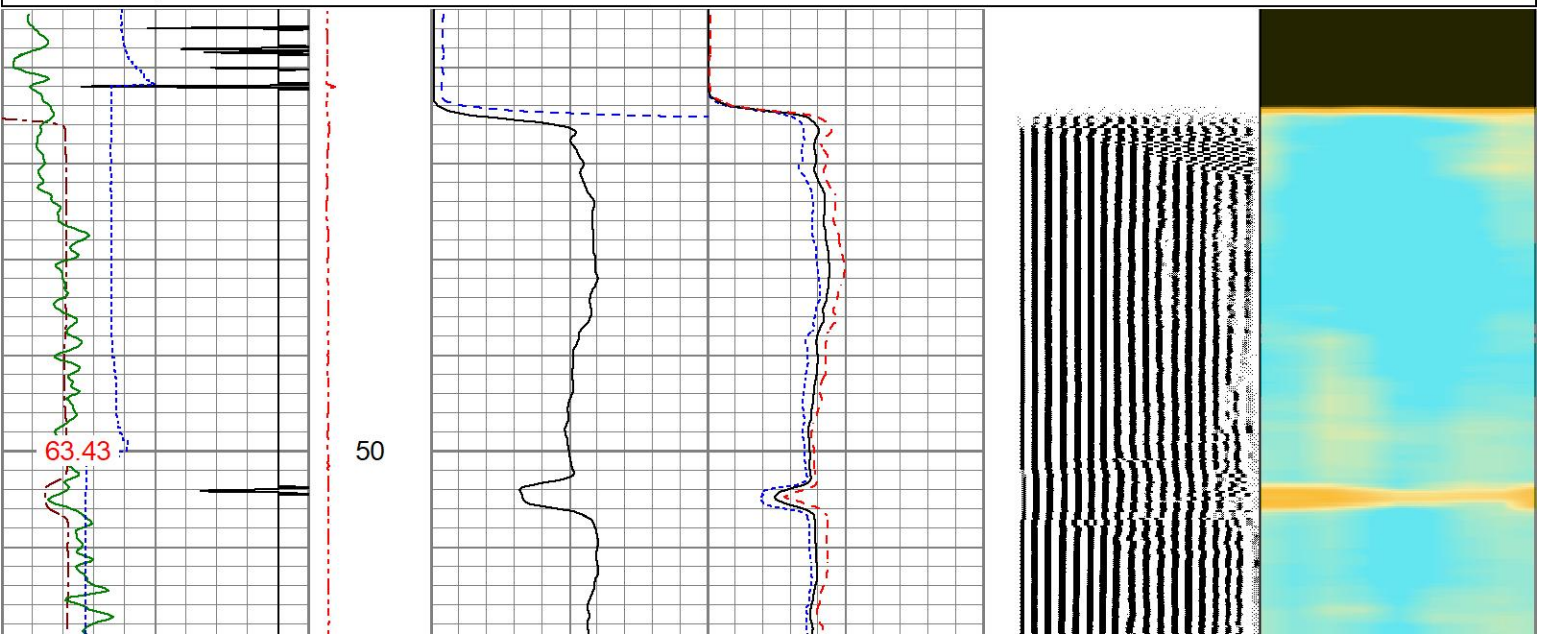


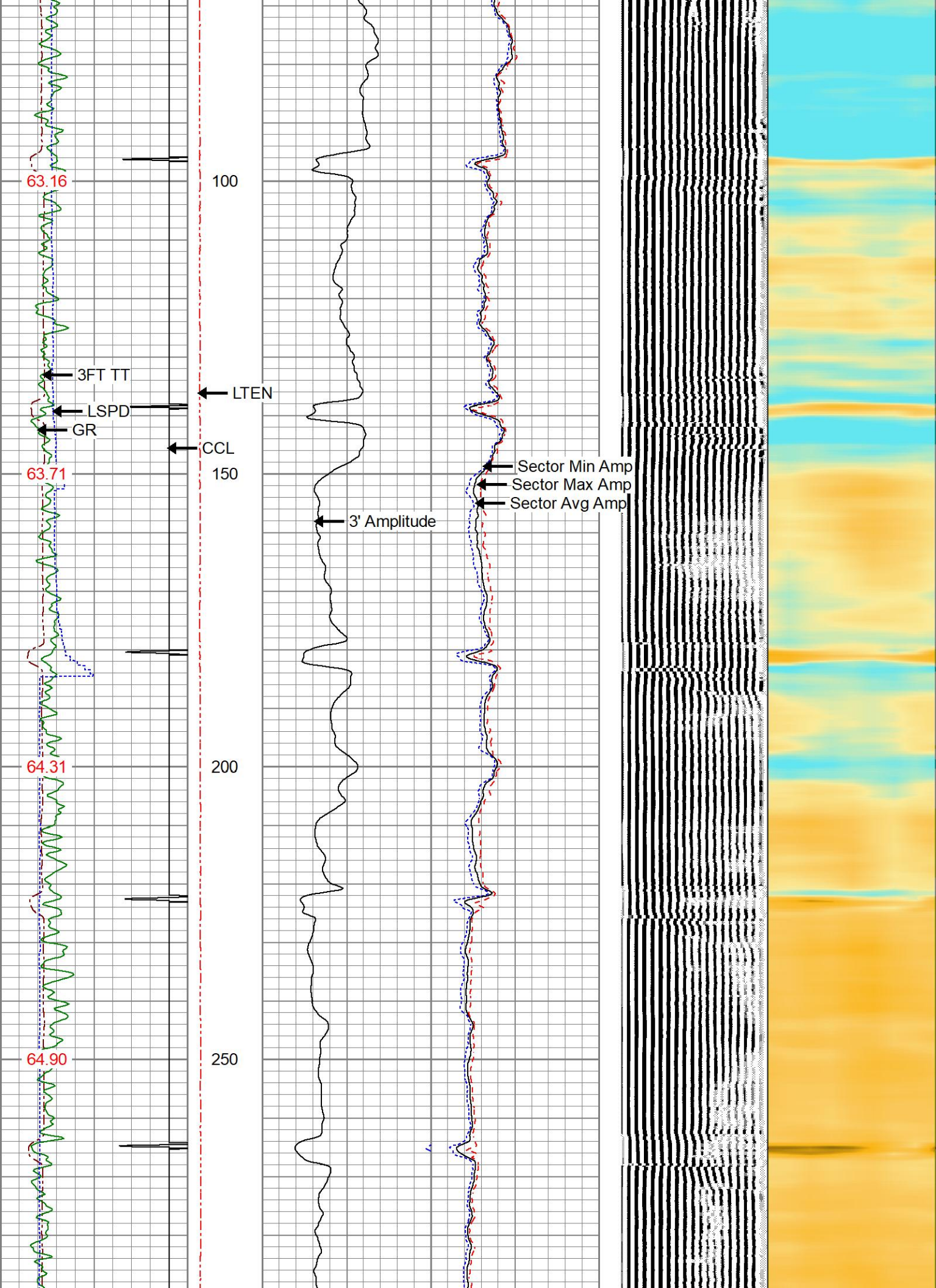
MAIN PASS

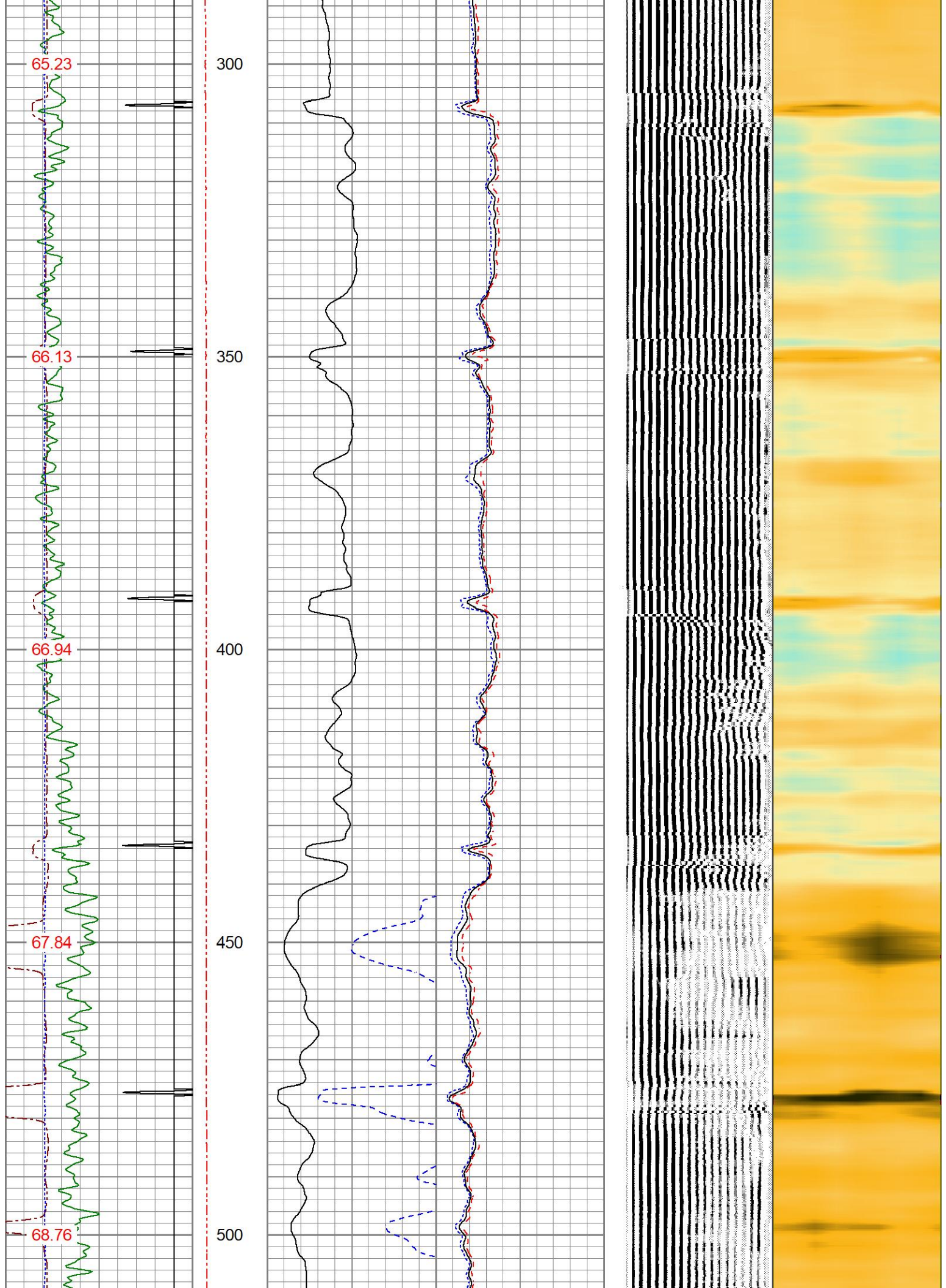
0 PSI APPLIED AT SURFACE

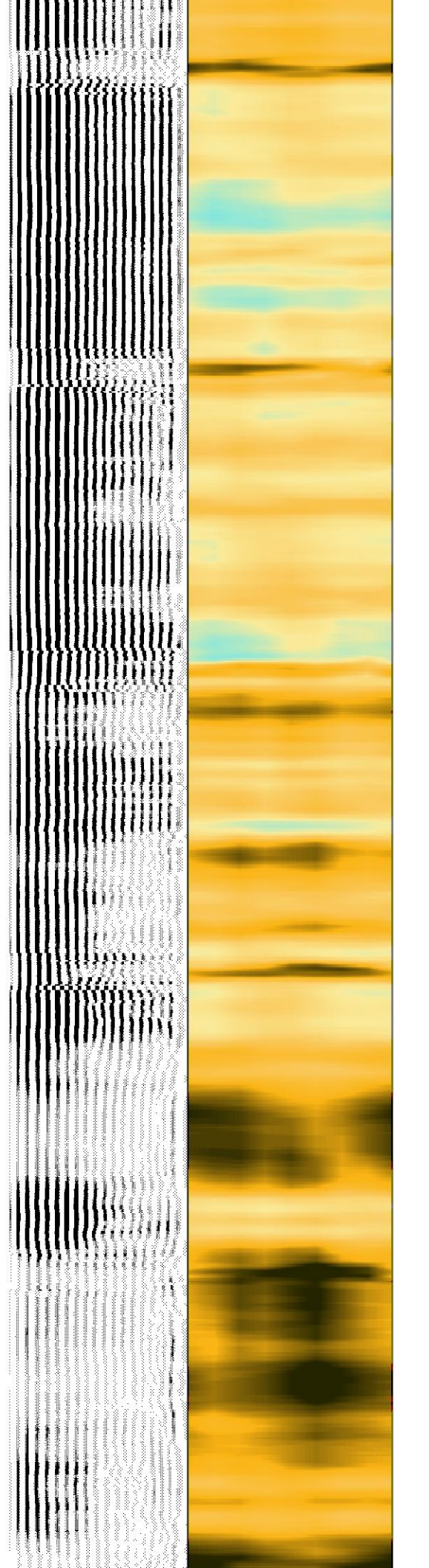
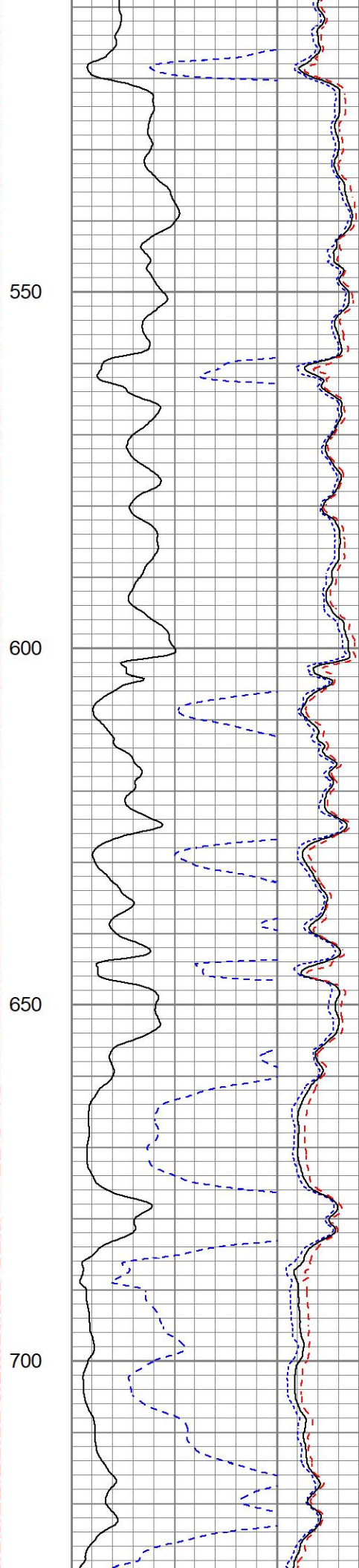
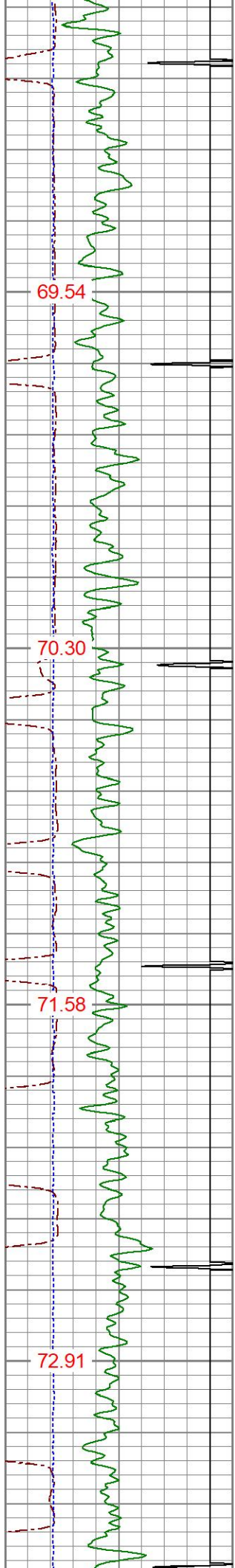
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 Presentation Format res_scbl 8sec
 Dataset Creation Thu Oct 19 14:20:13 2023
 Charted by Depth in Feet scaled 1:240

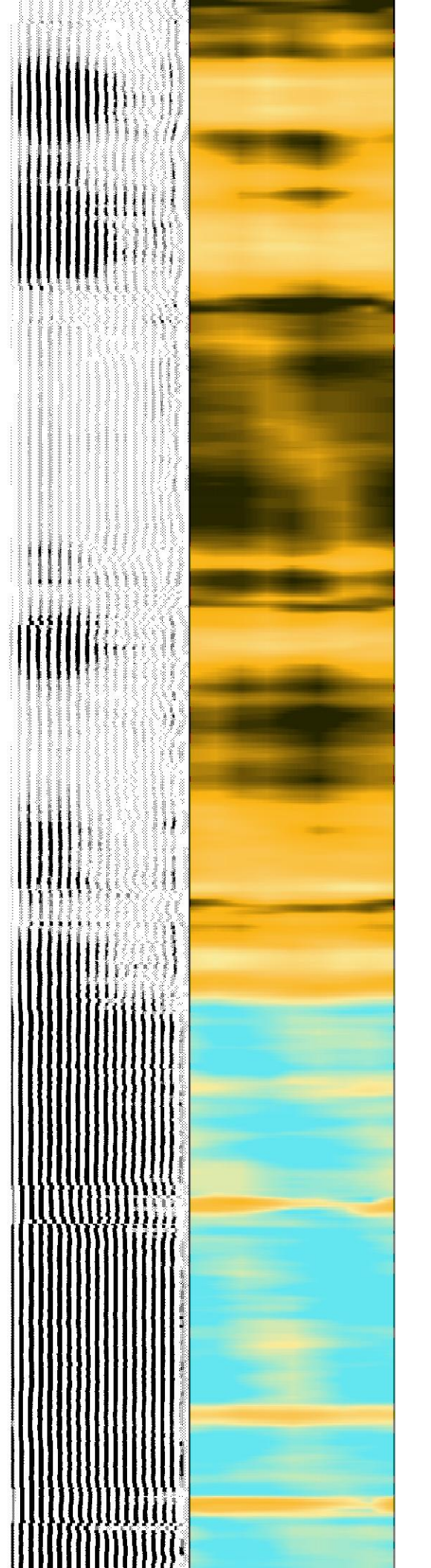
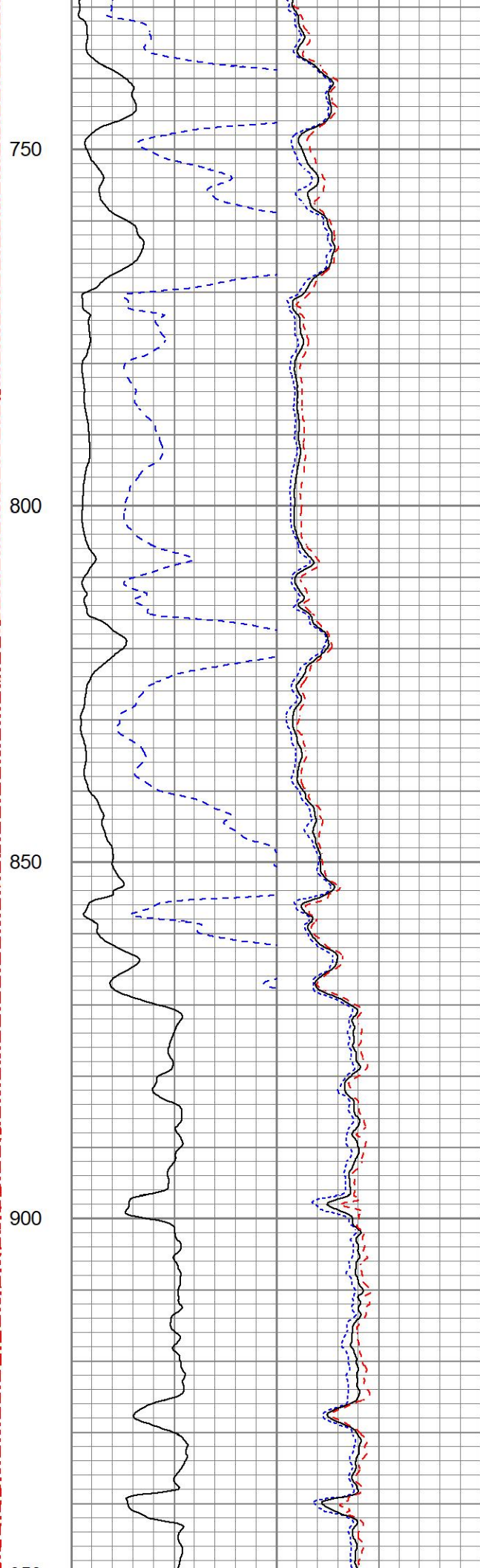
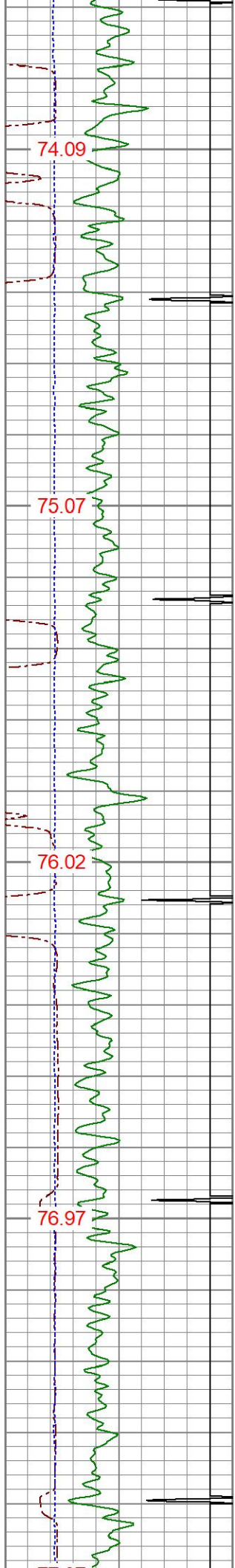
240 3FT TT (usec) 140	LTEN	3' Amplitude	0 Sector Min Amp 150	200 VDL (usec) 1200	1 Sector Map	8
-9 CCL 1	(lb)	(mV) 100	Sector Avg Amp			
0 GR 150	0 2000	3' Amplified Amplitude X 5	0 150			
-150 LSPD (ft/min) 150		(mV) 20	Sector Max Amp			
TEMP (degF)			0 150			

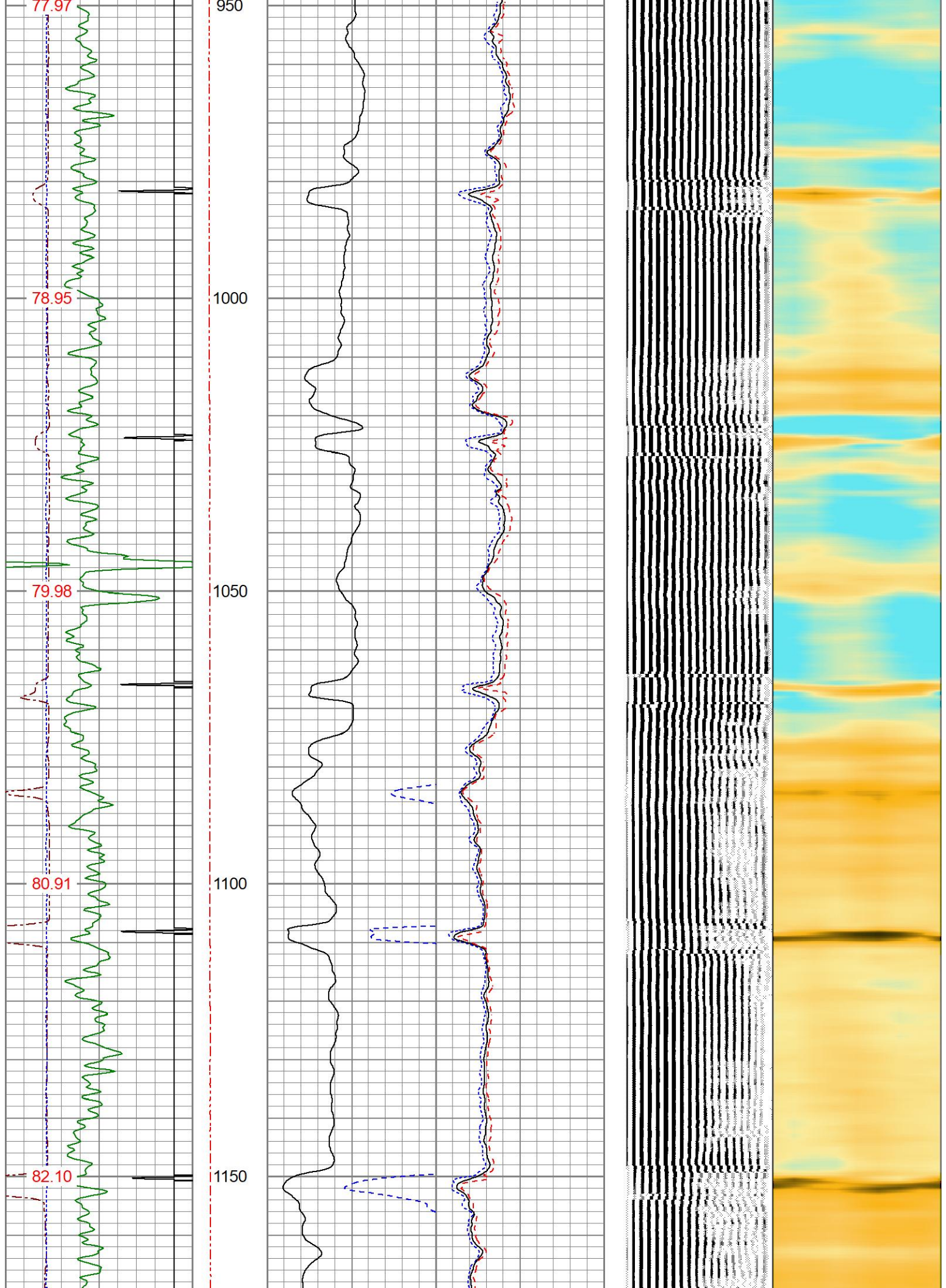


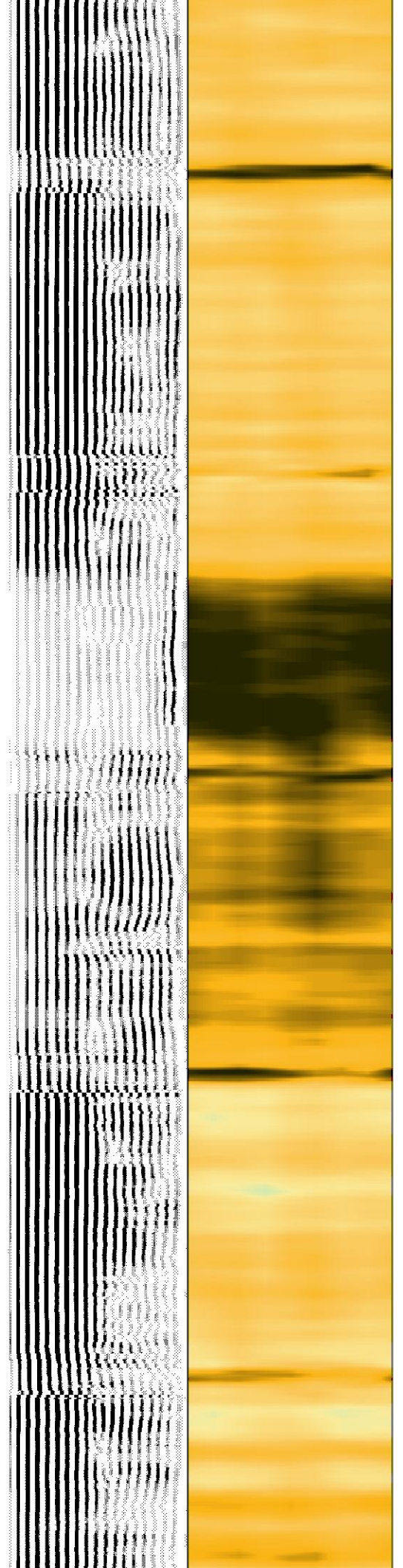
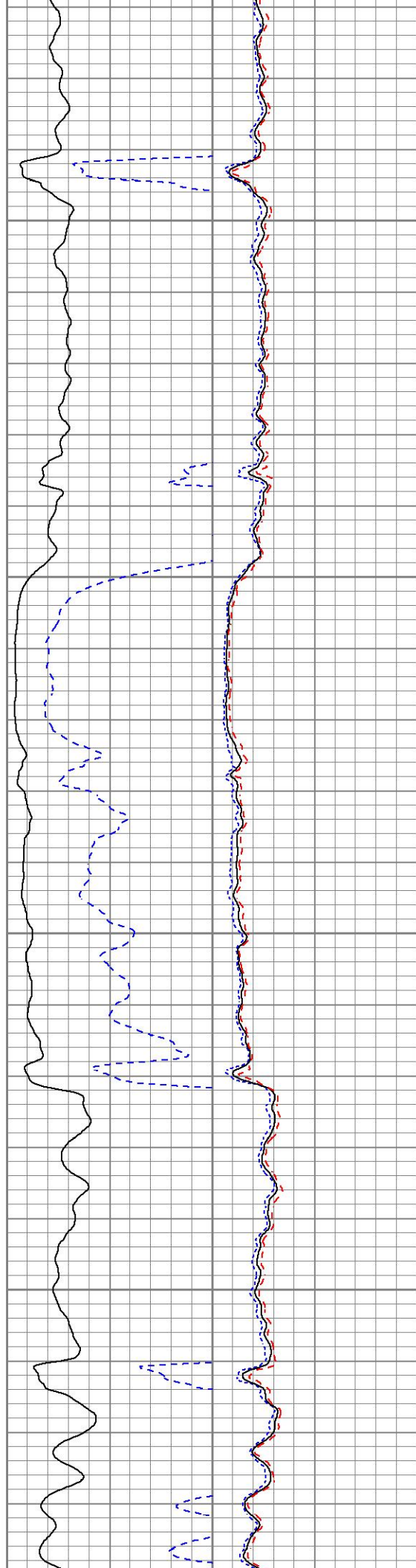
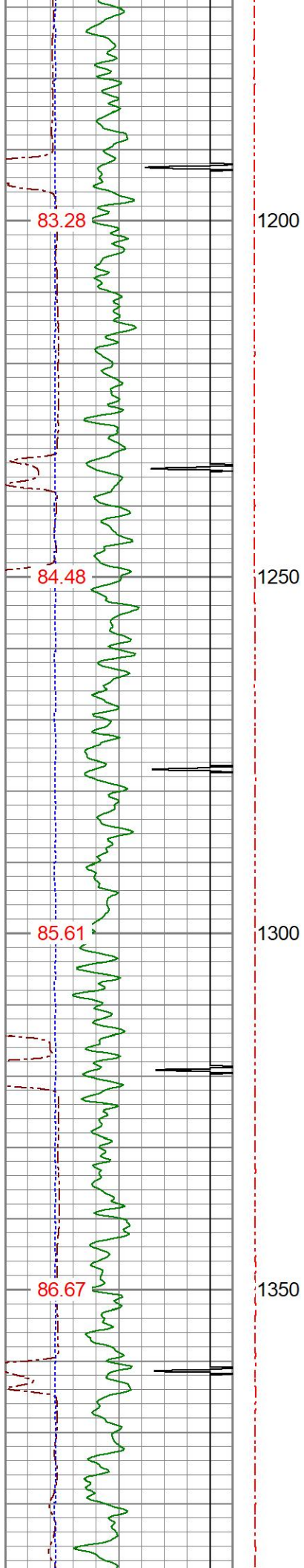


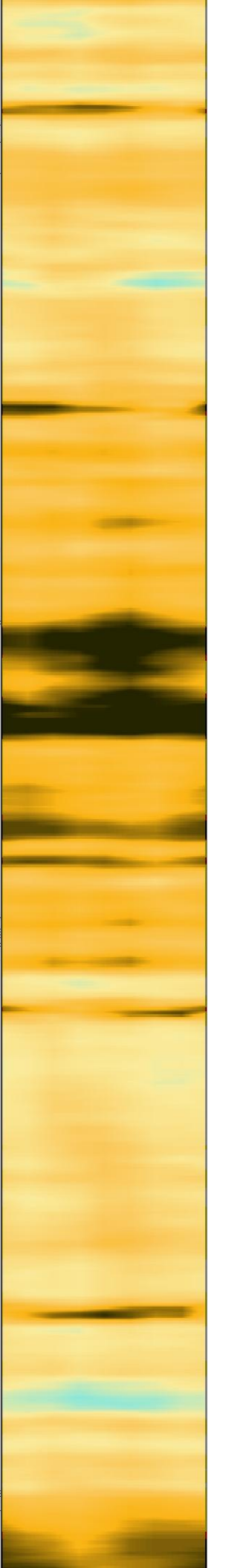
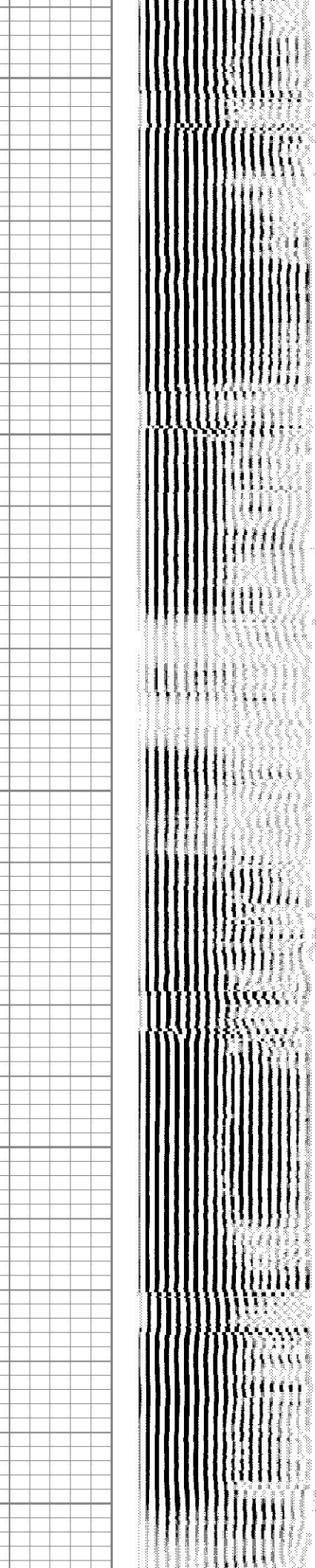
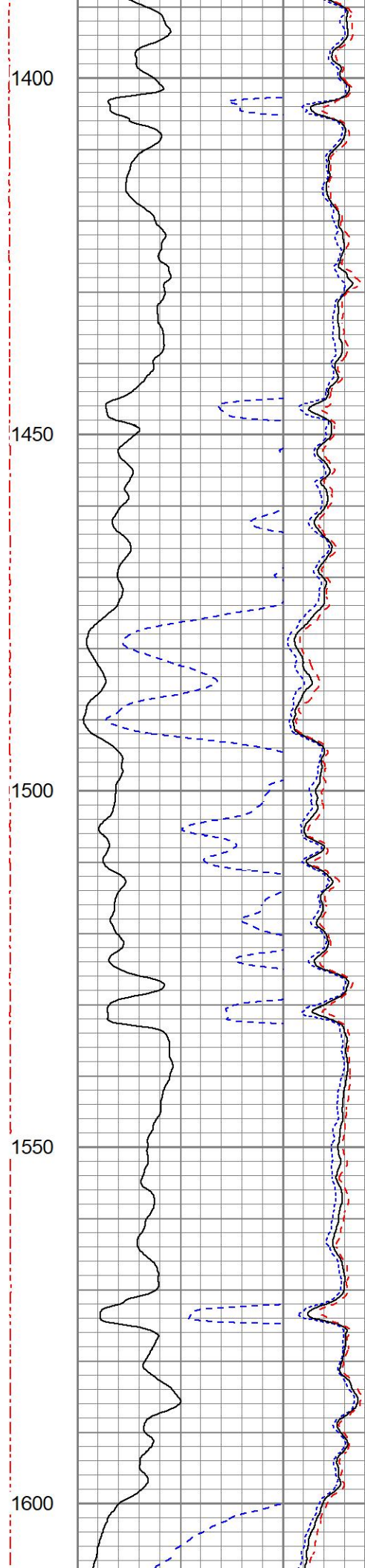
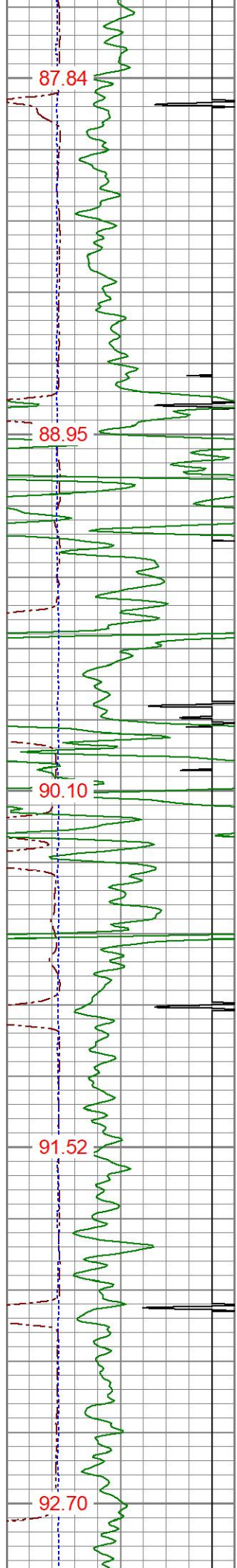


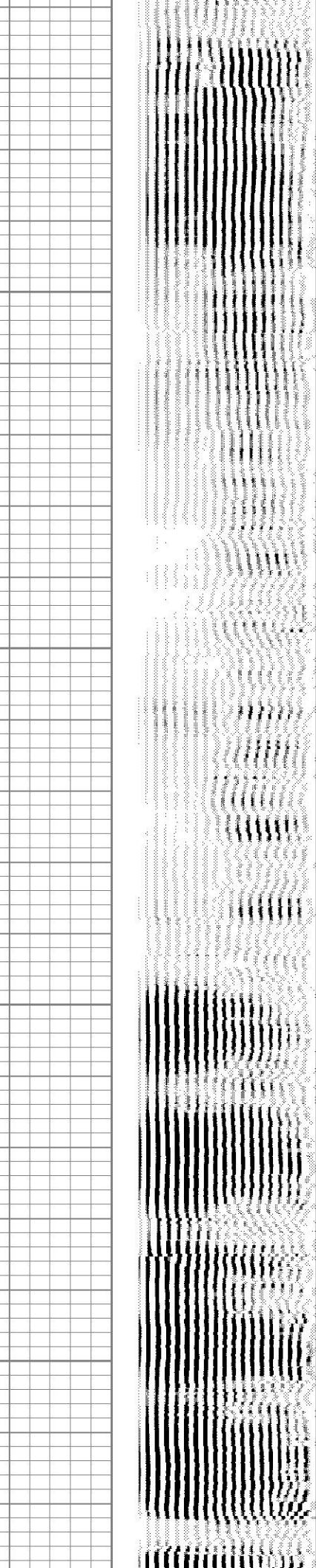
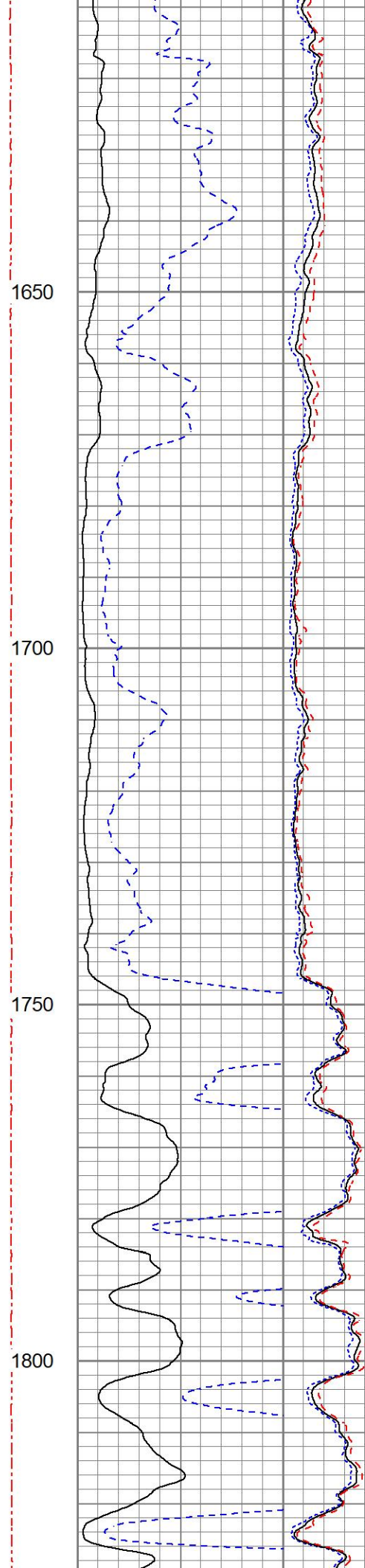
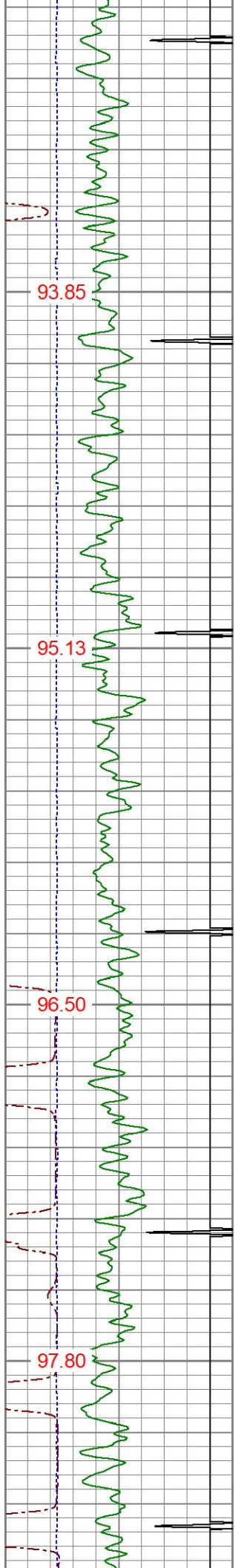


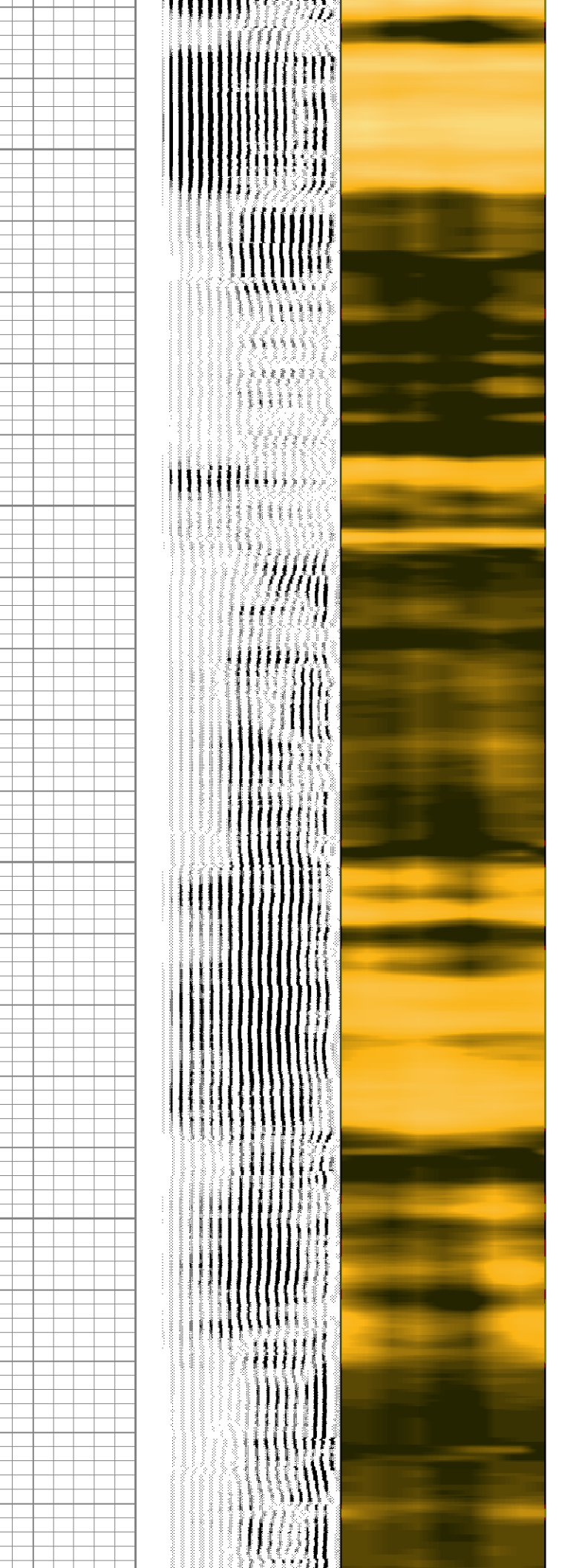
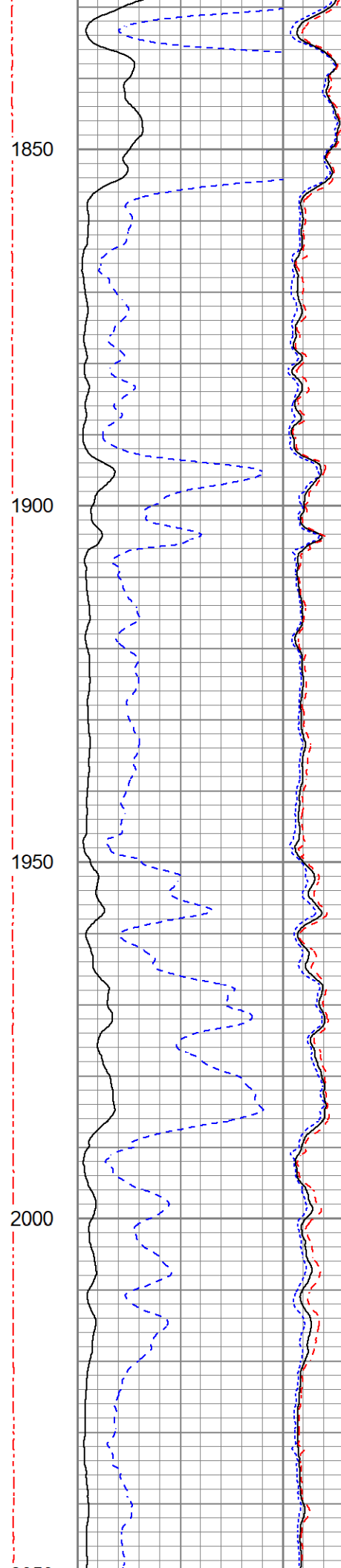
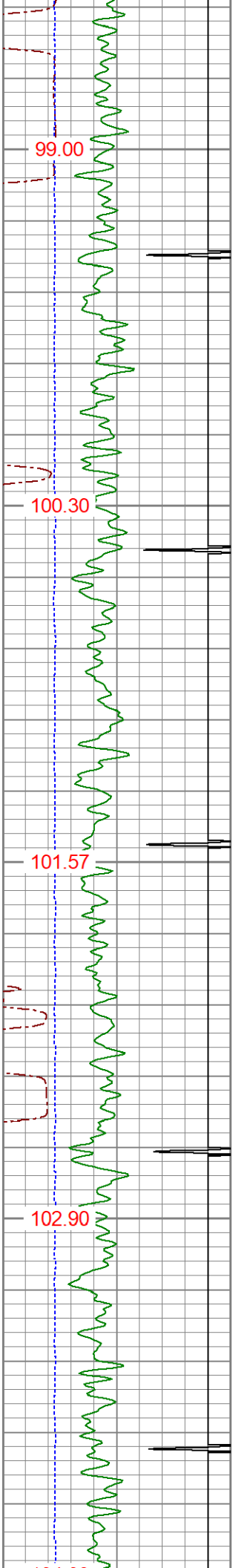


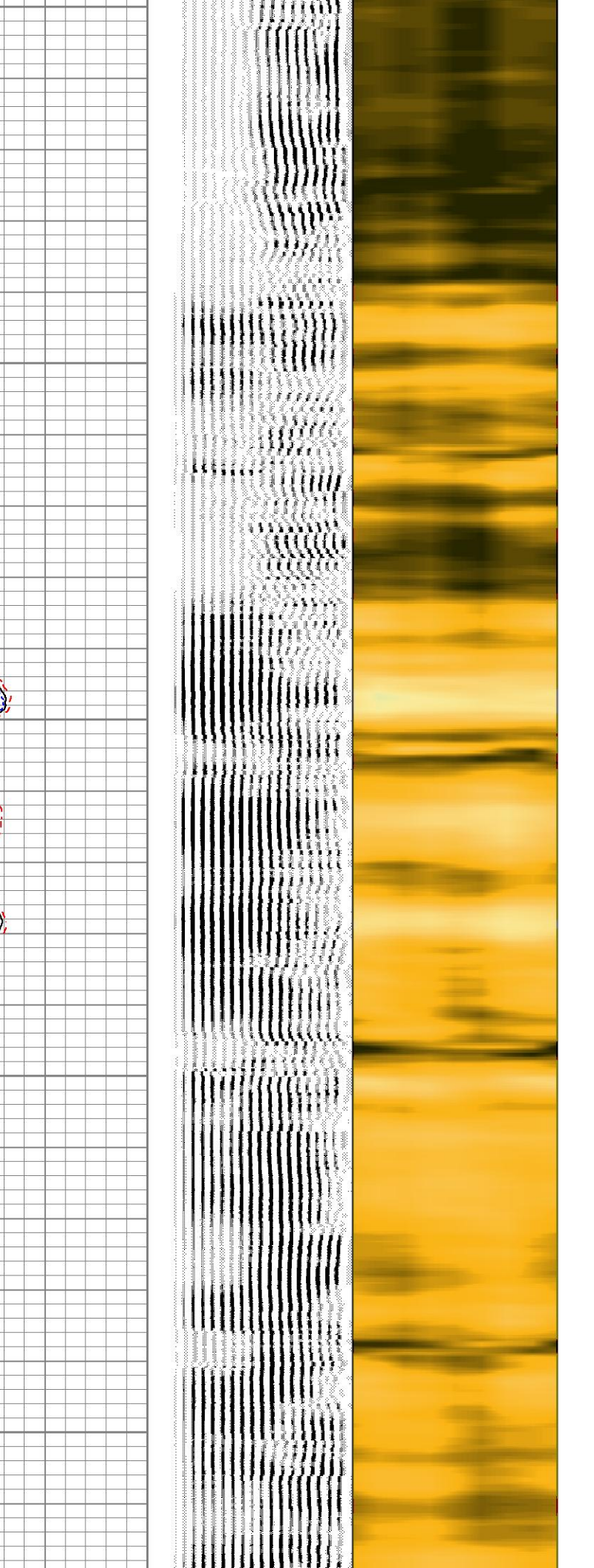
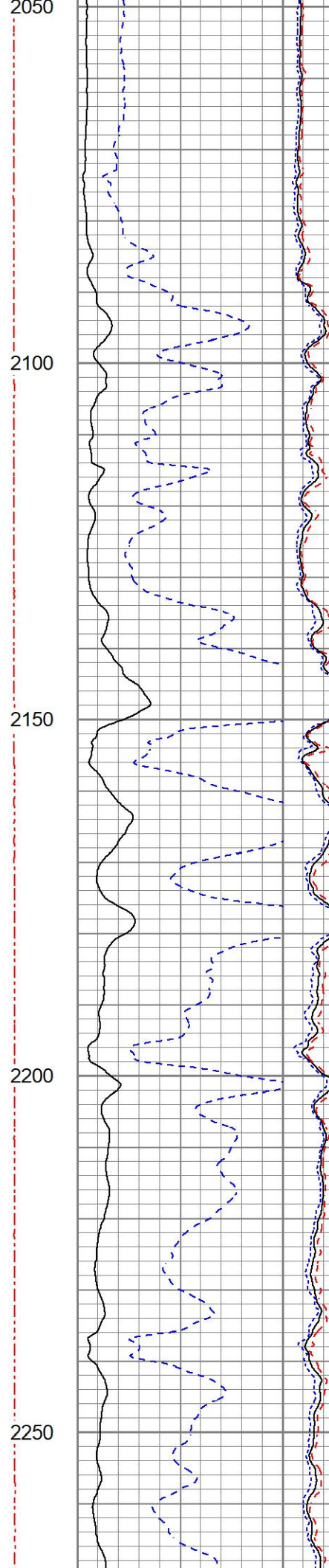
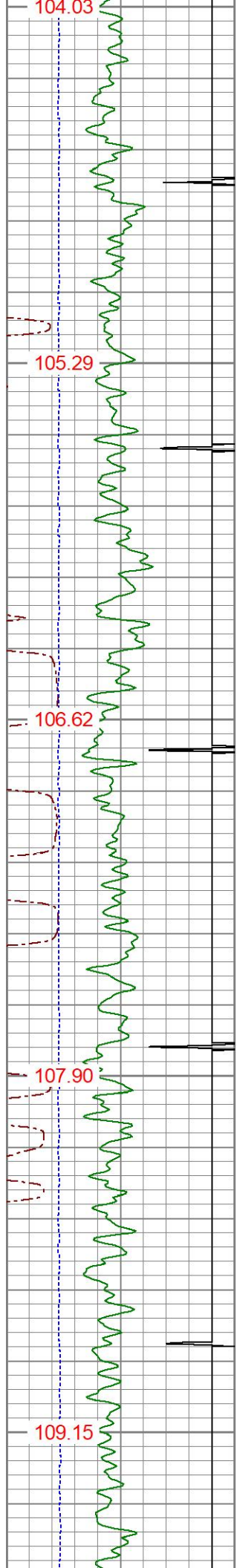


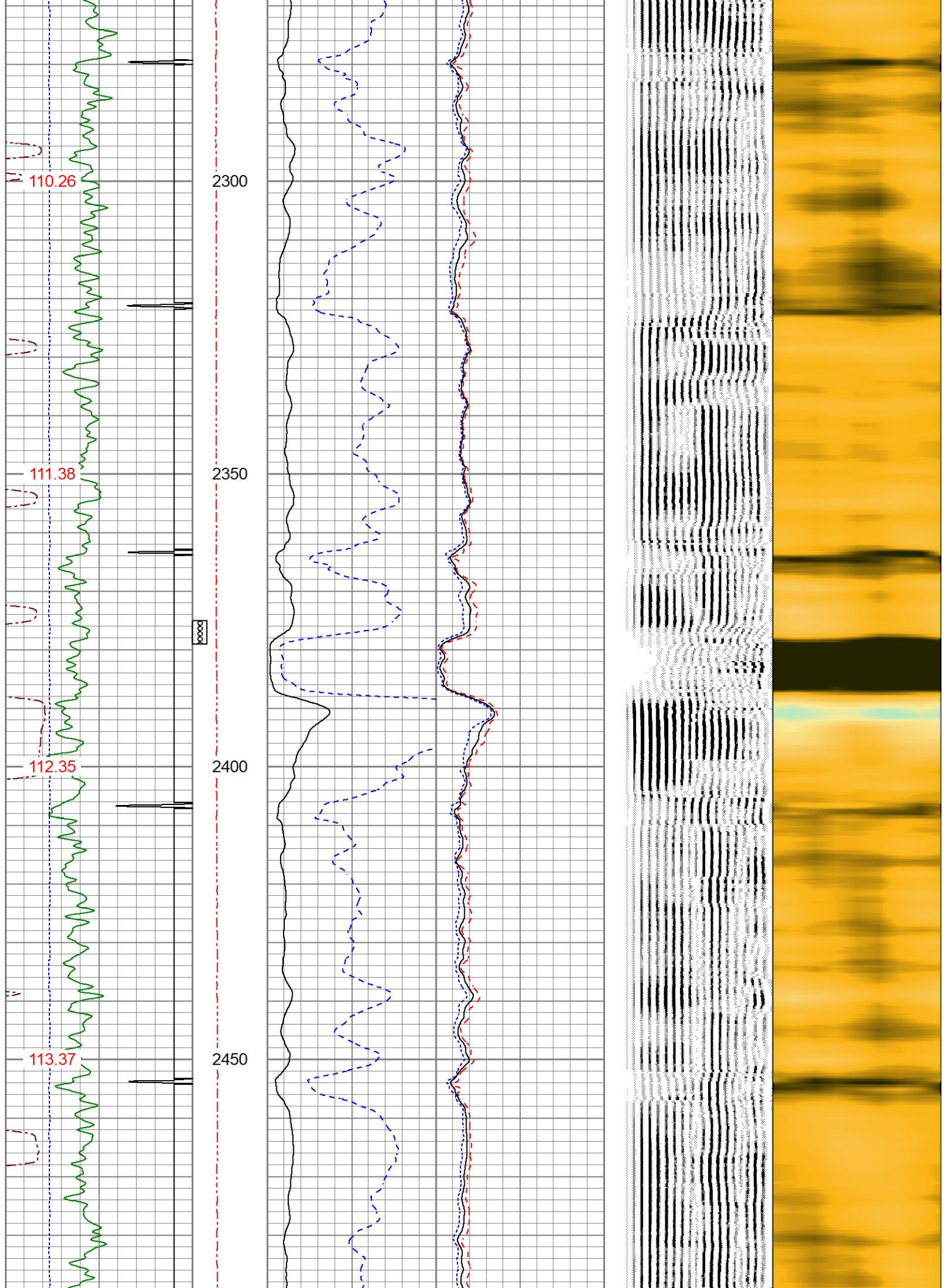


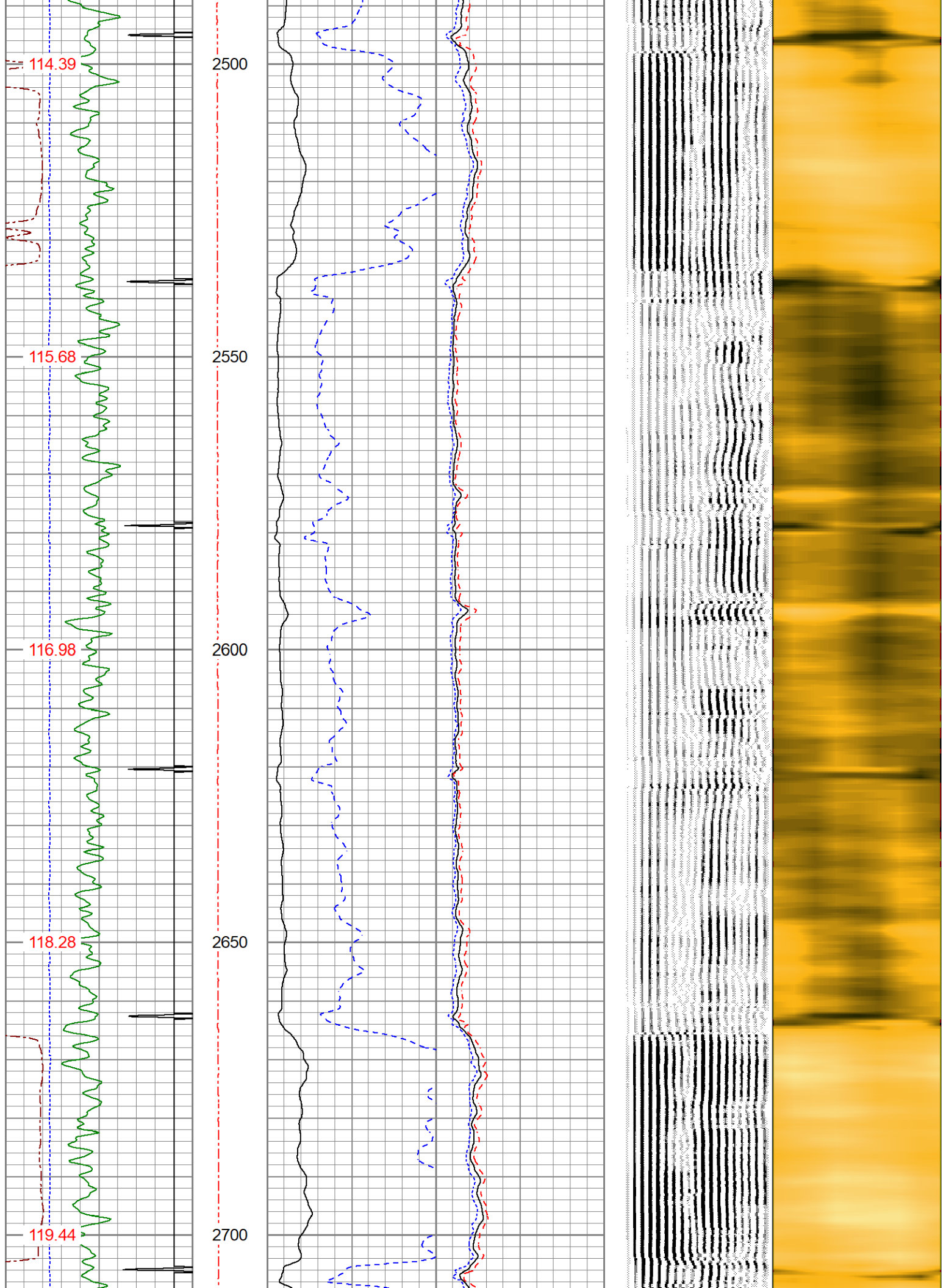


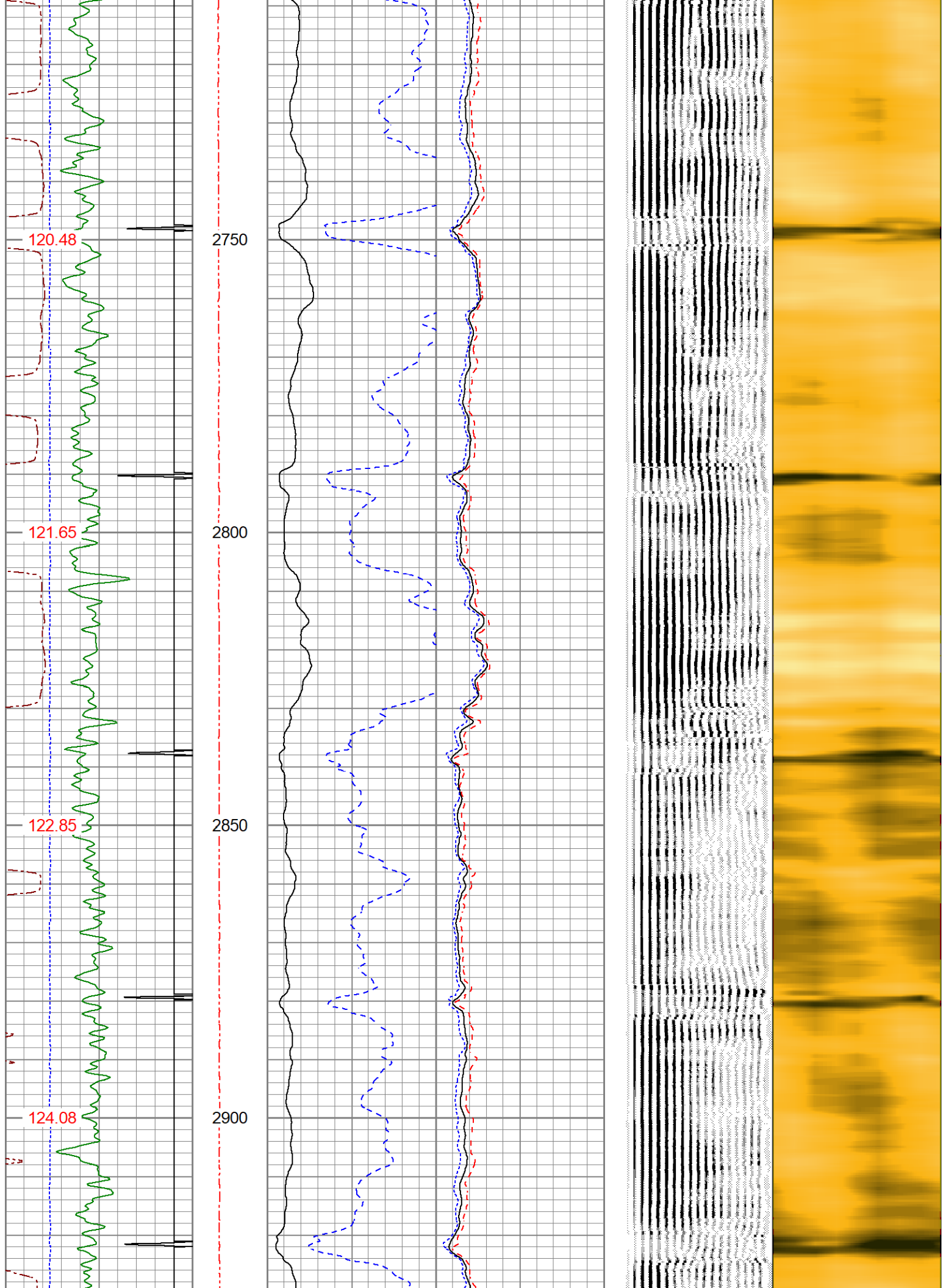


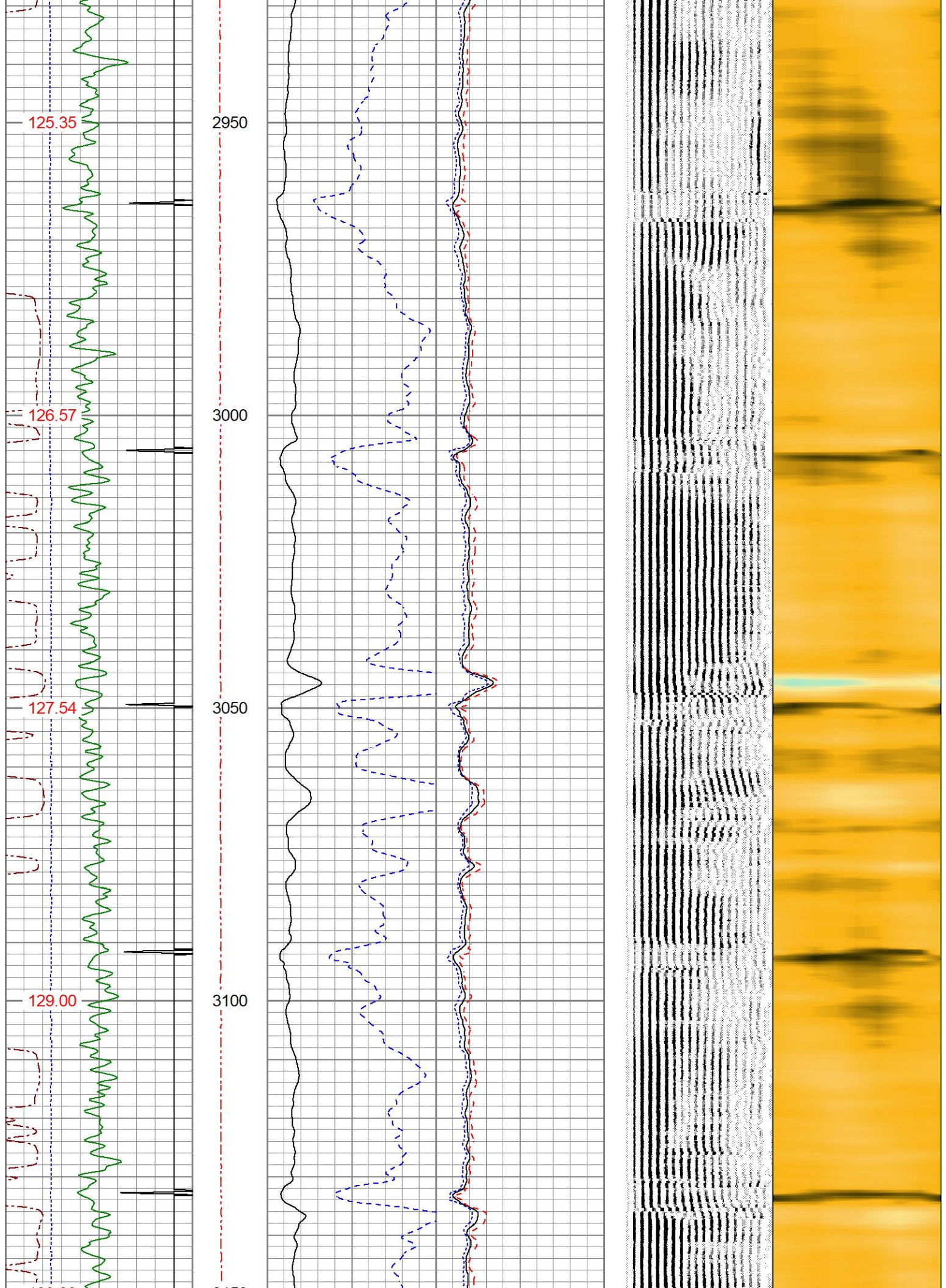


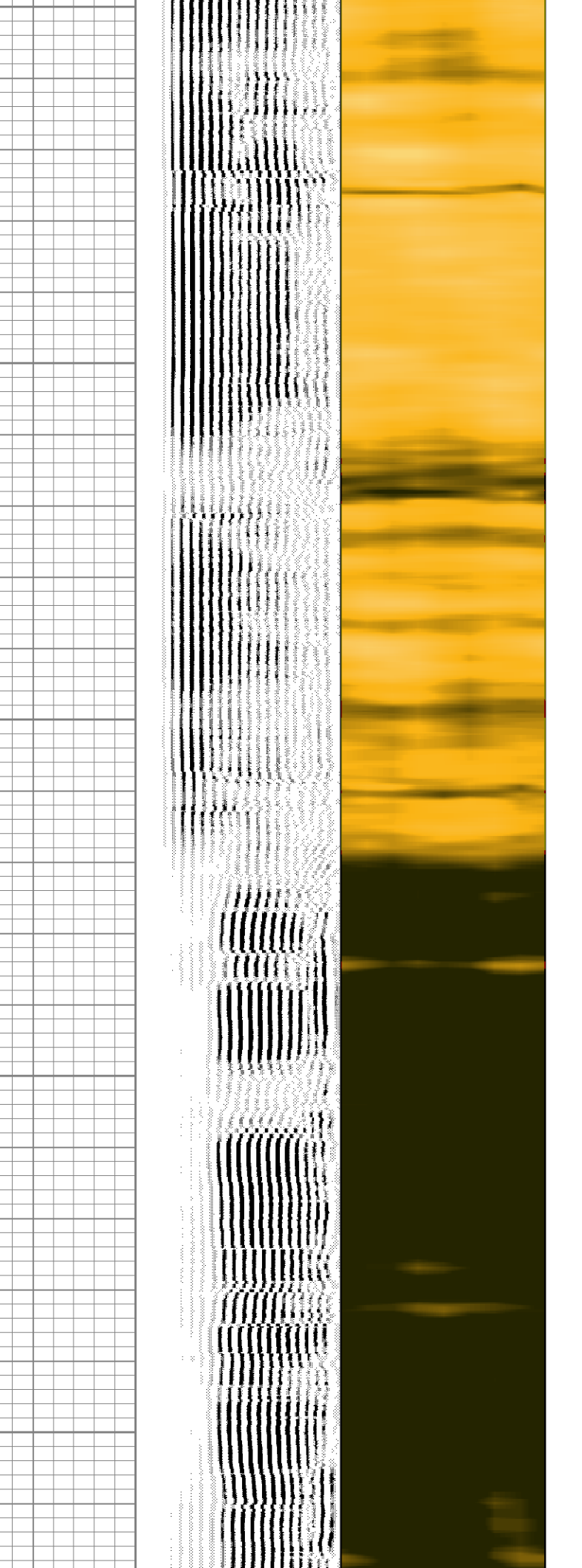
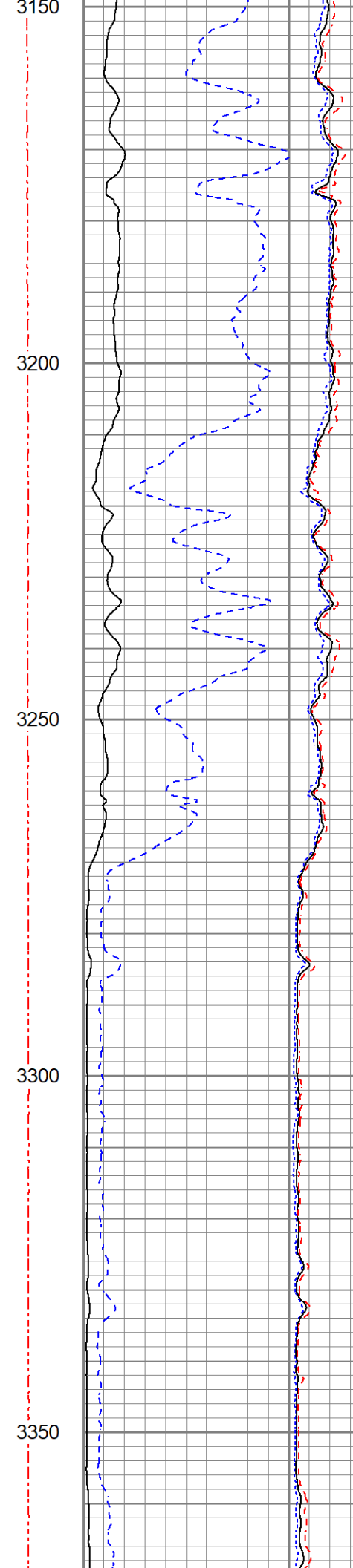
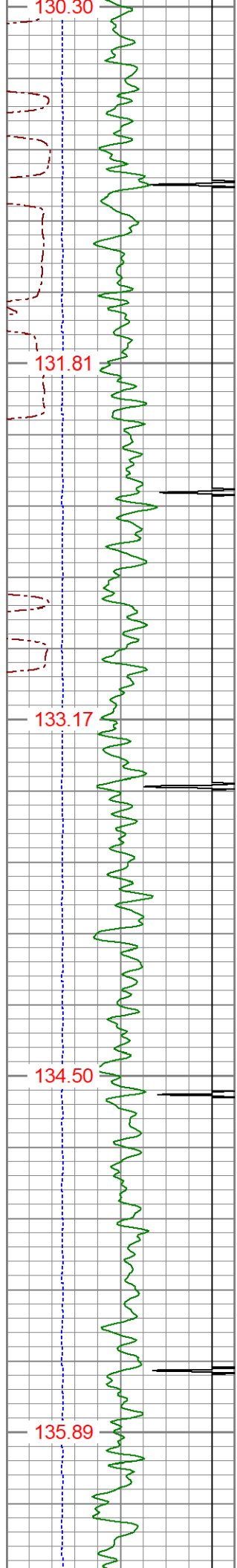


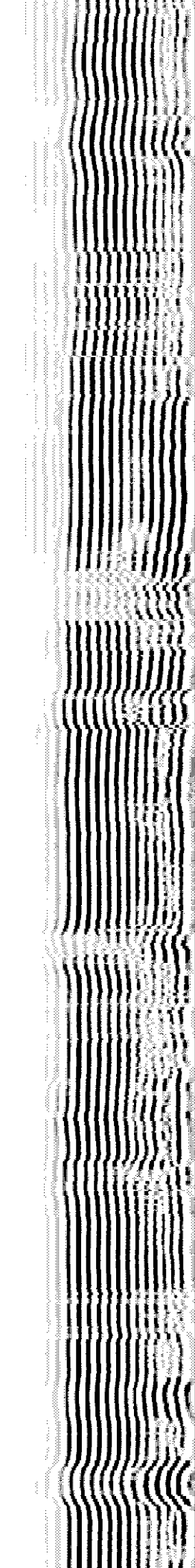
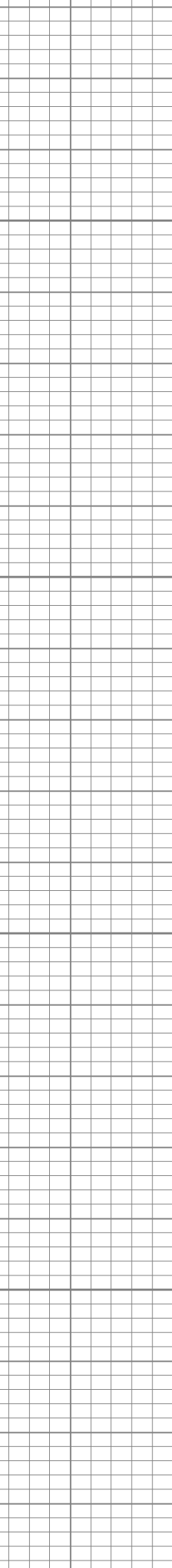
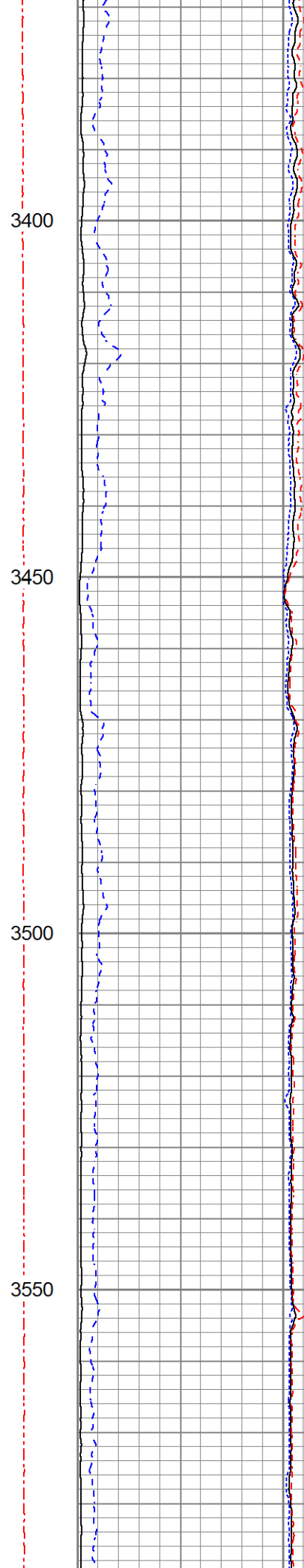
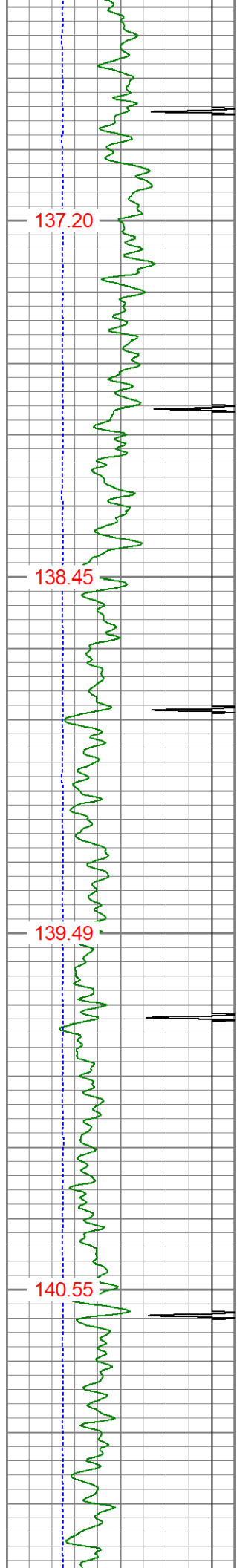


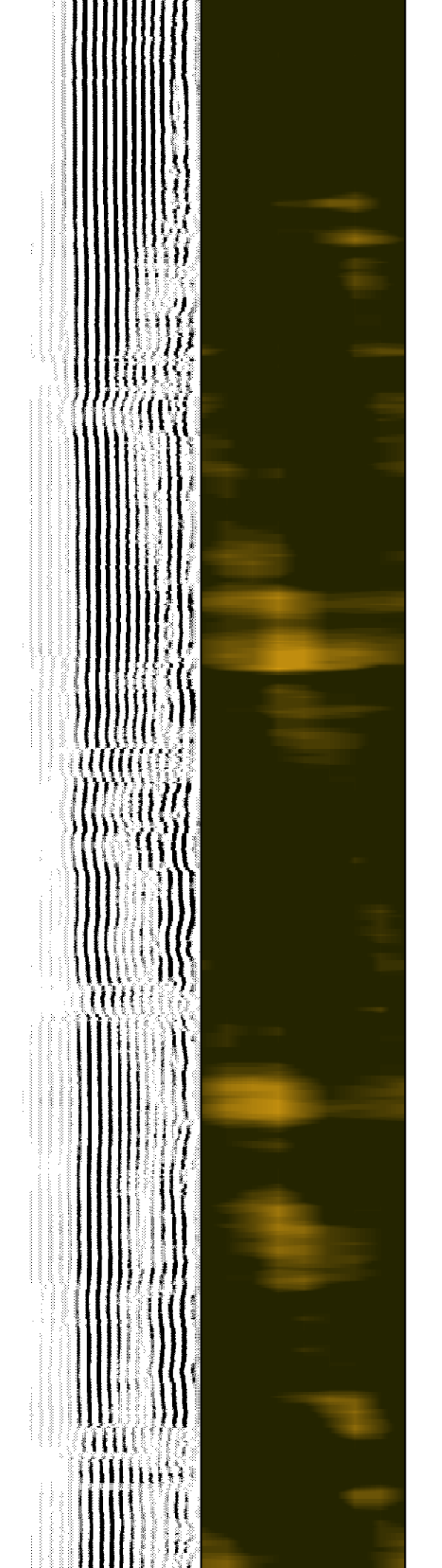
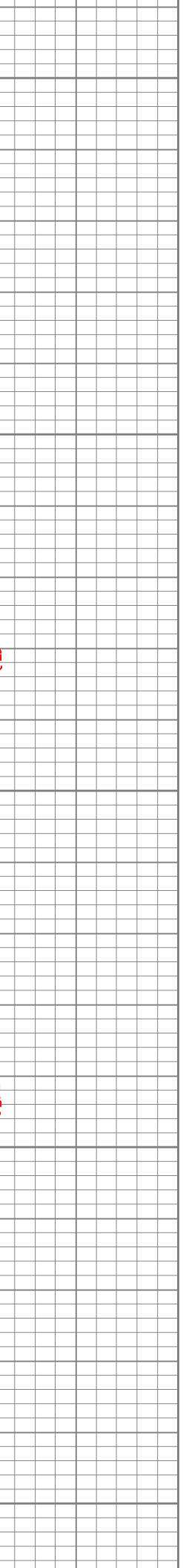
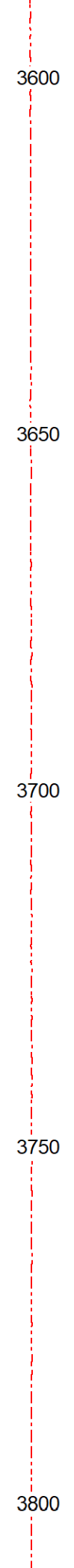
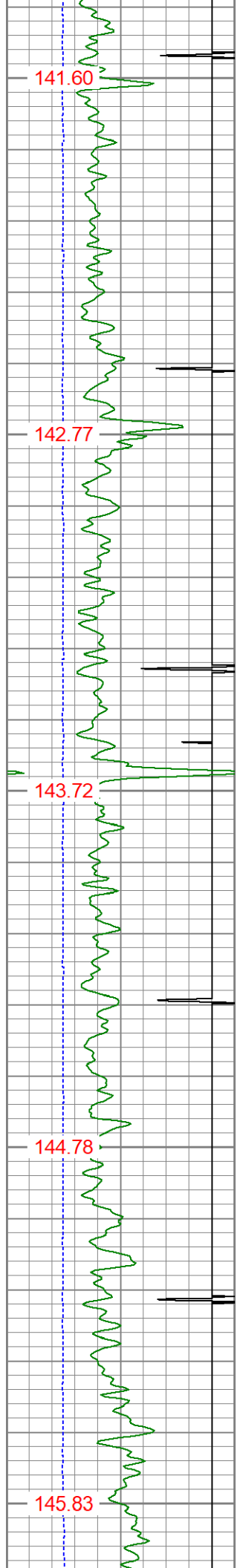


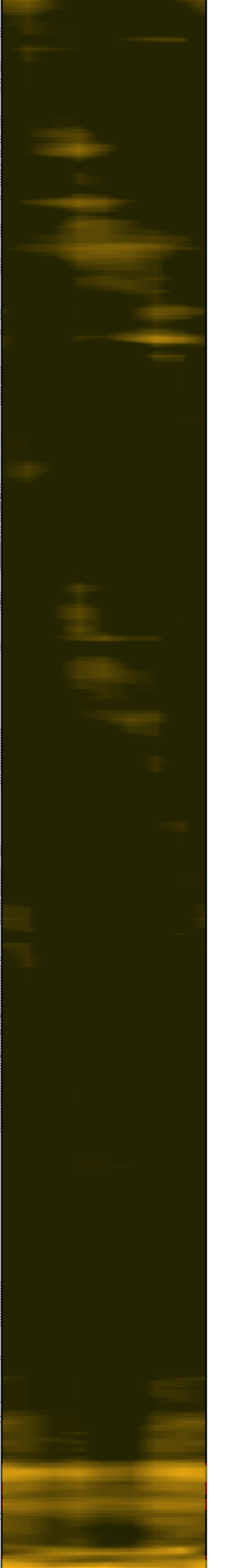
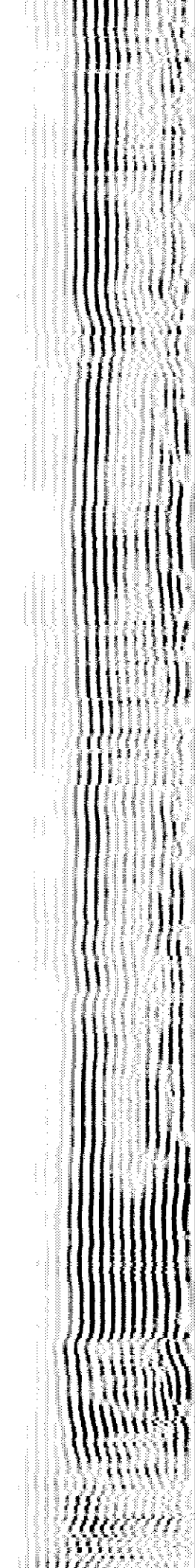
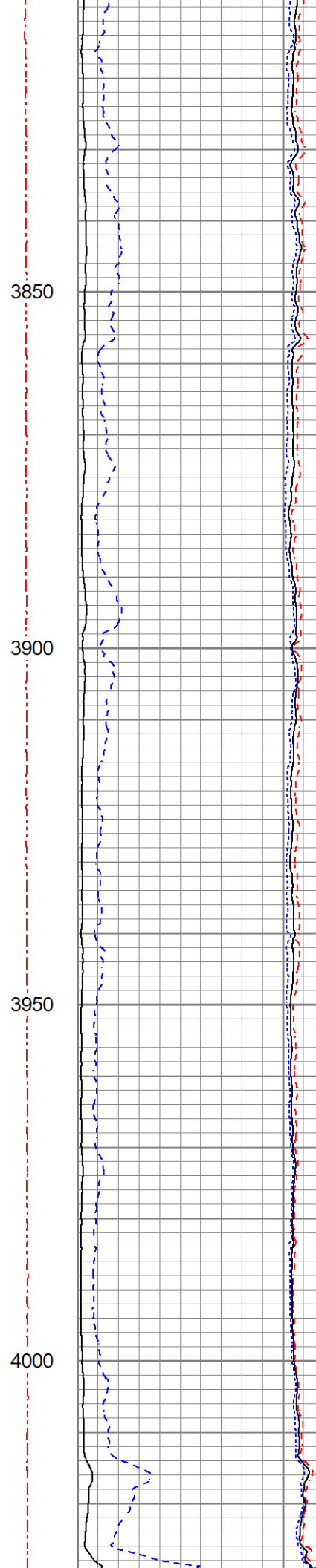
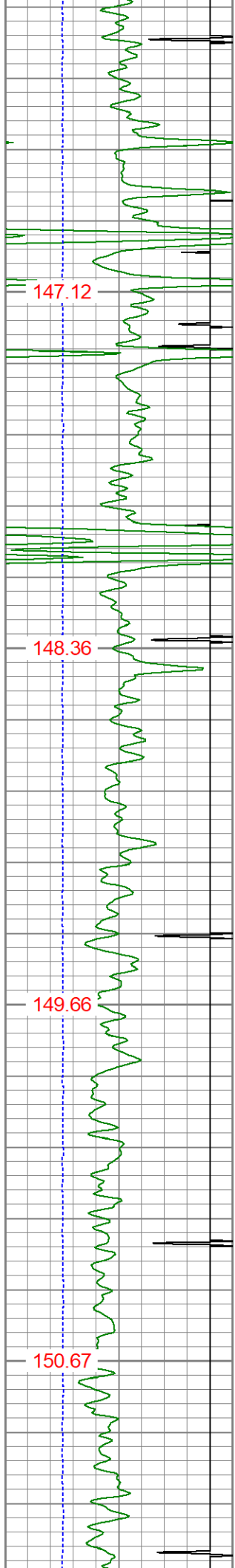


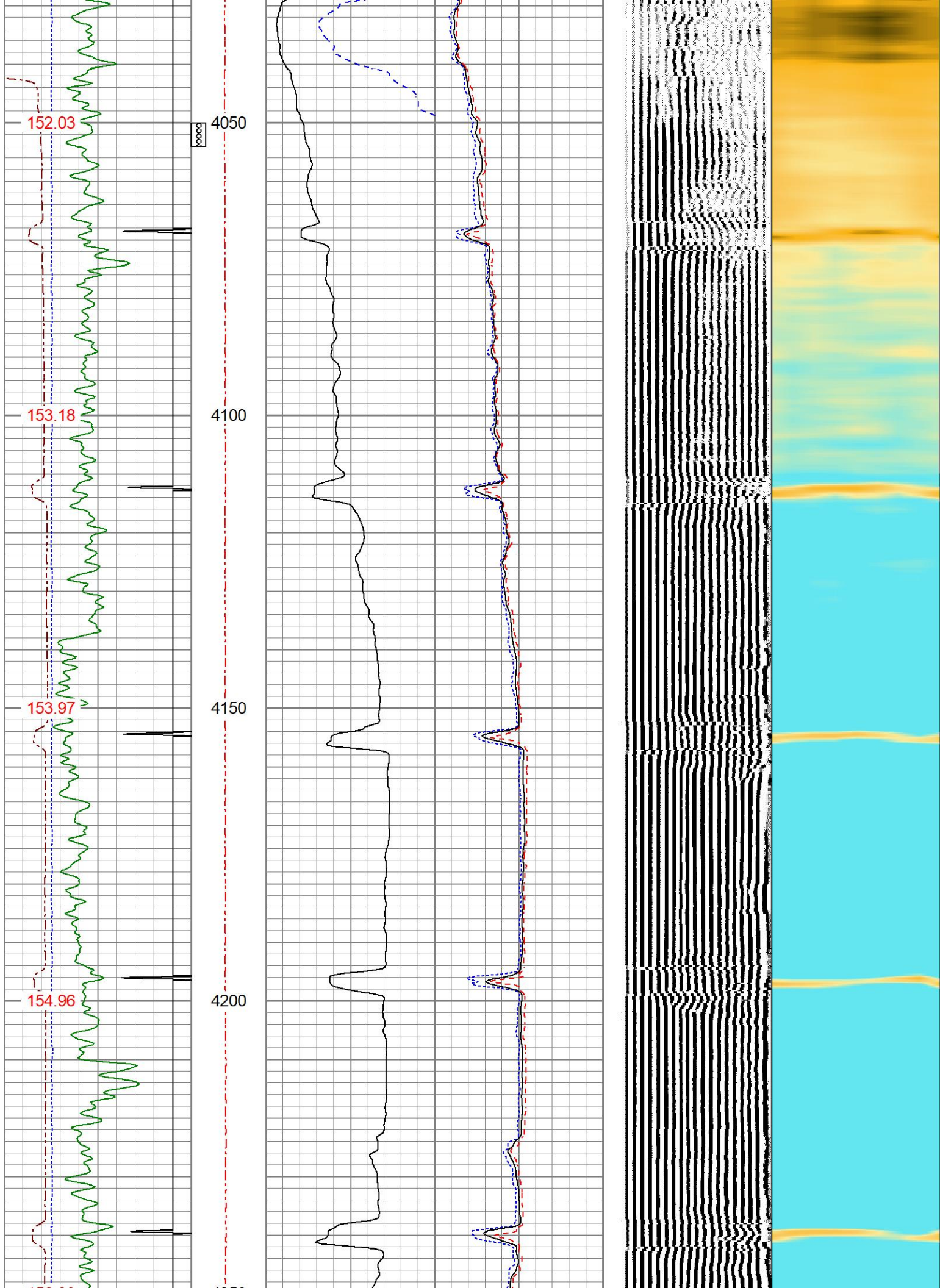


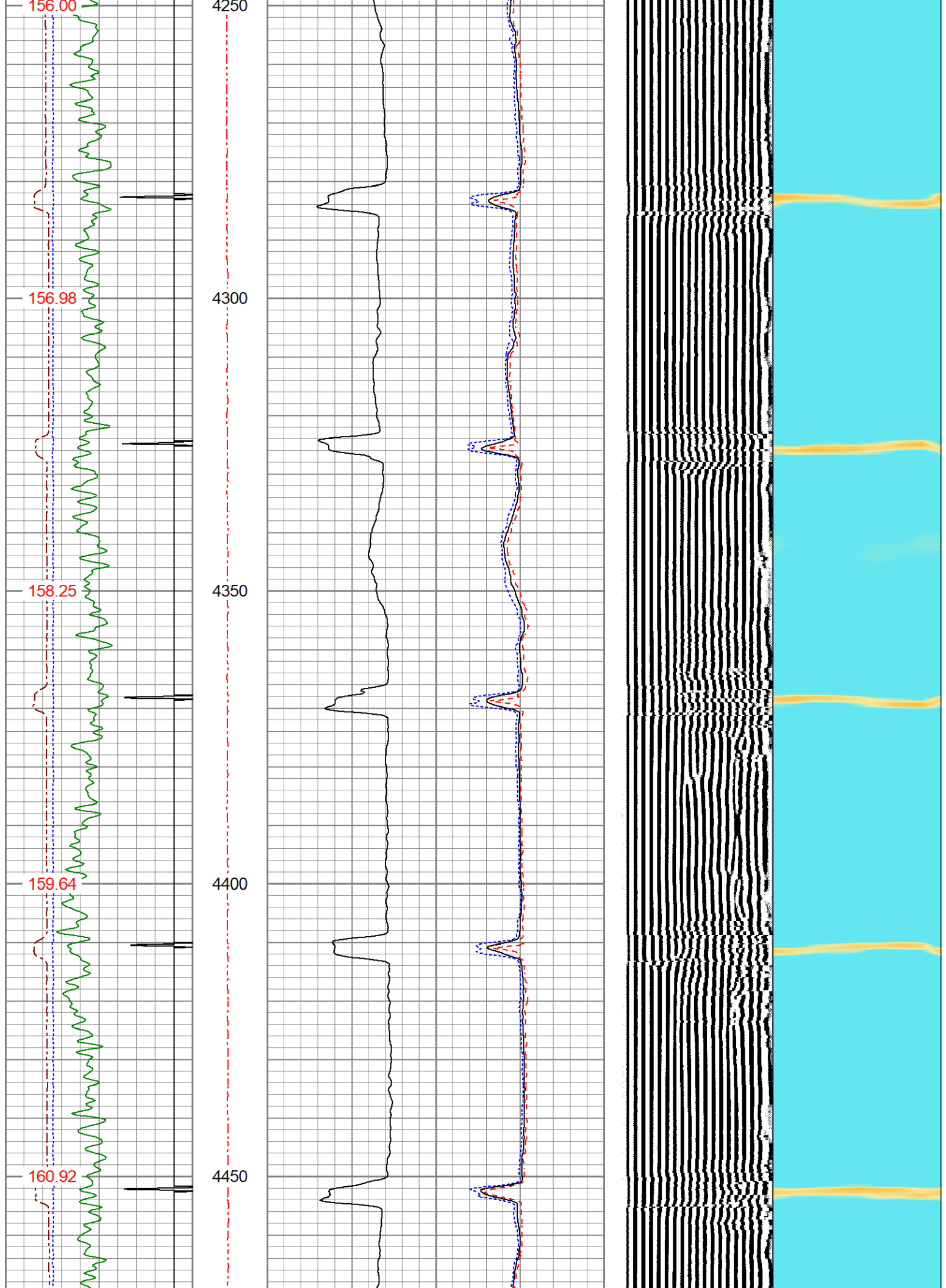


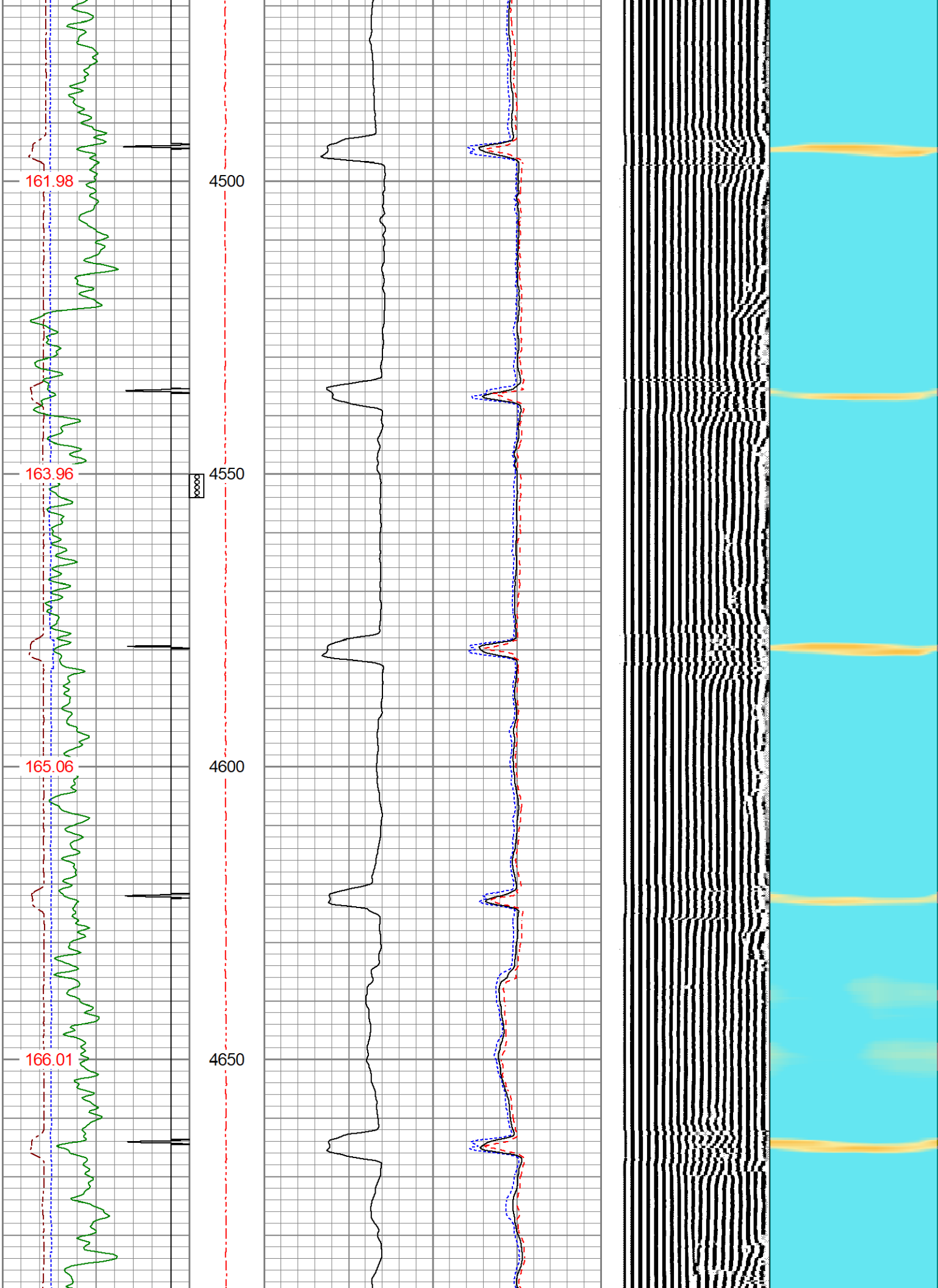


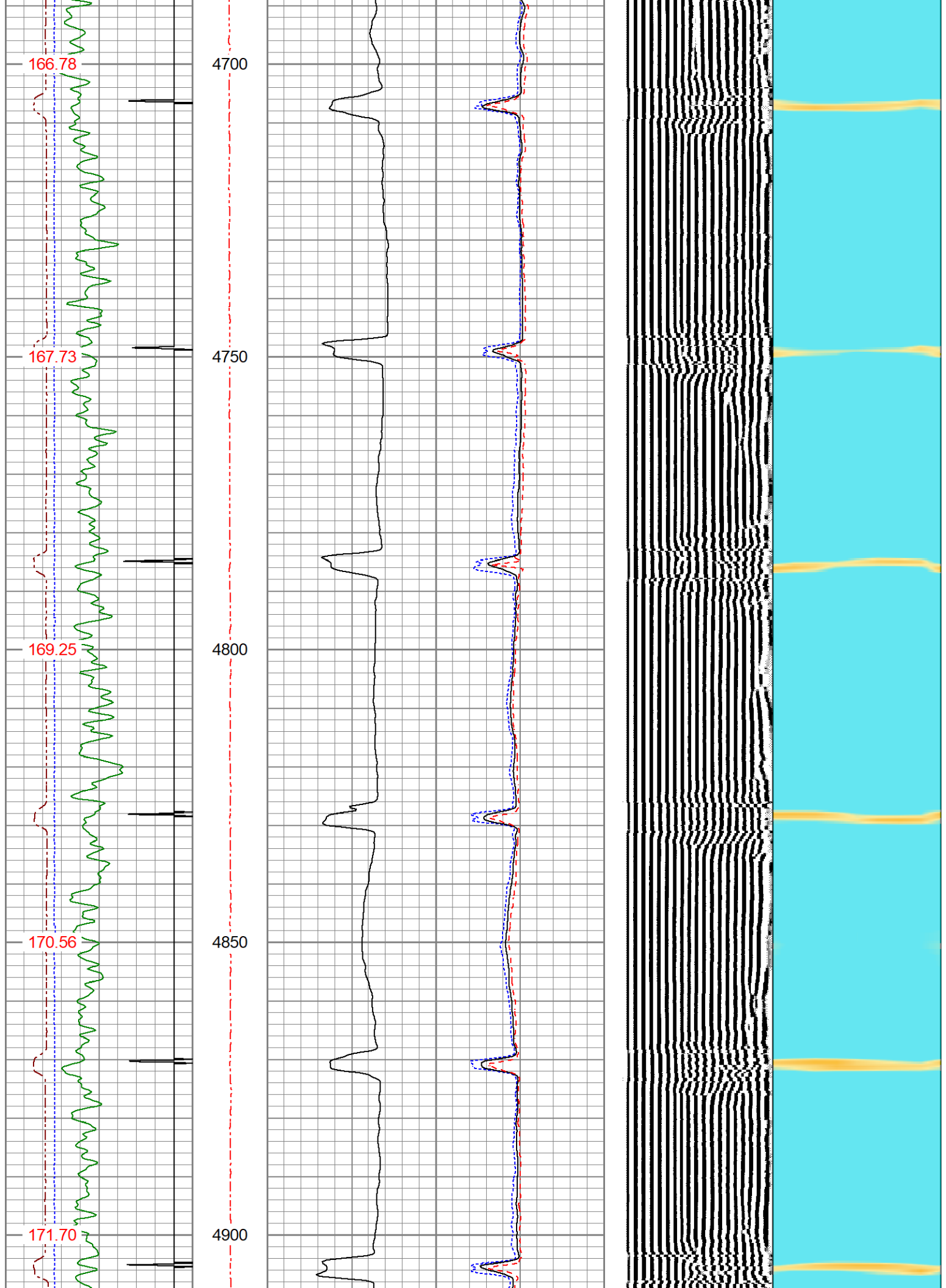


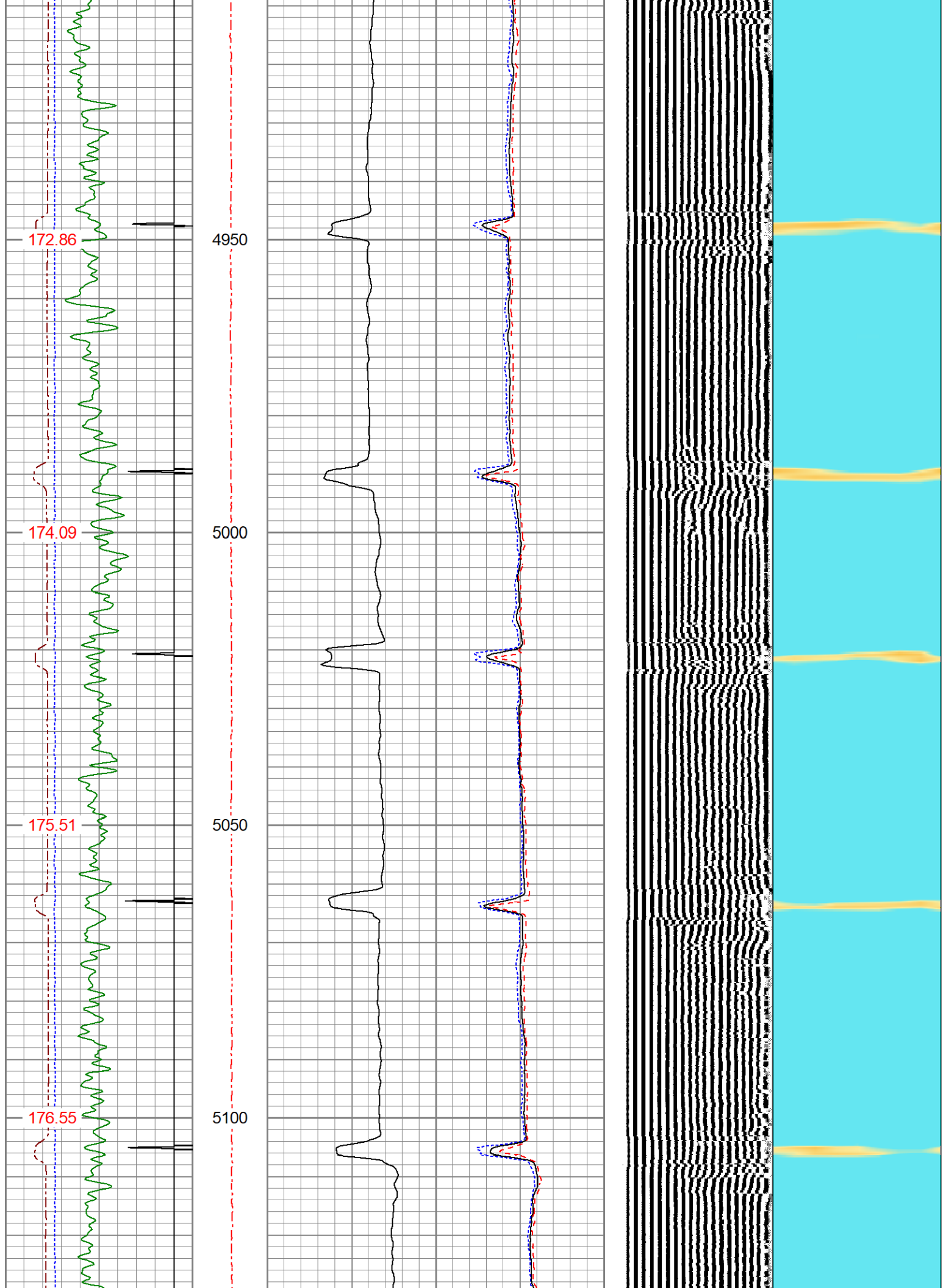


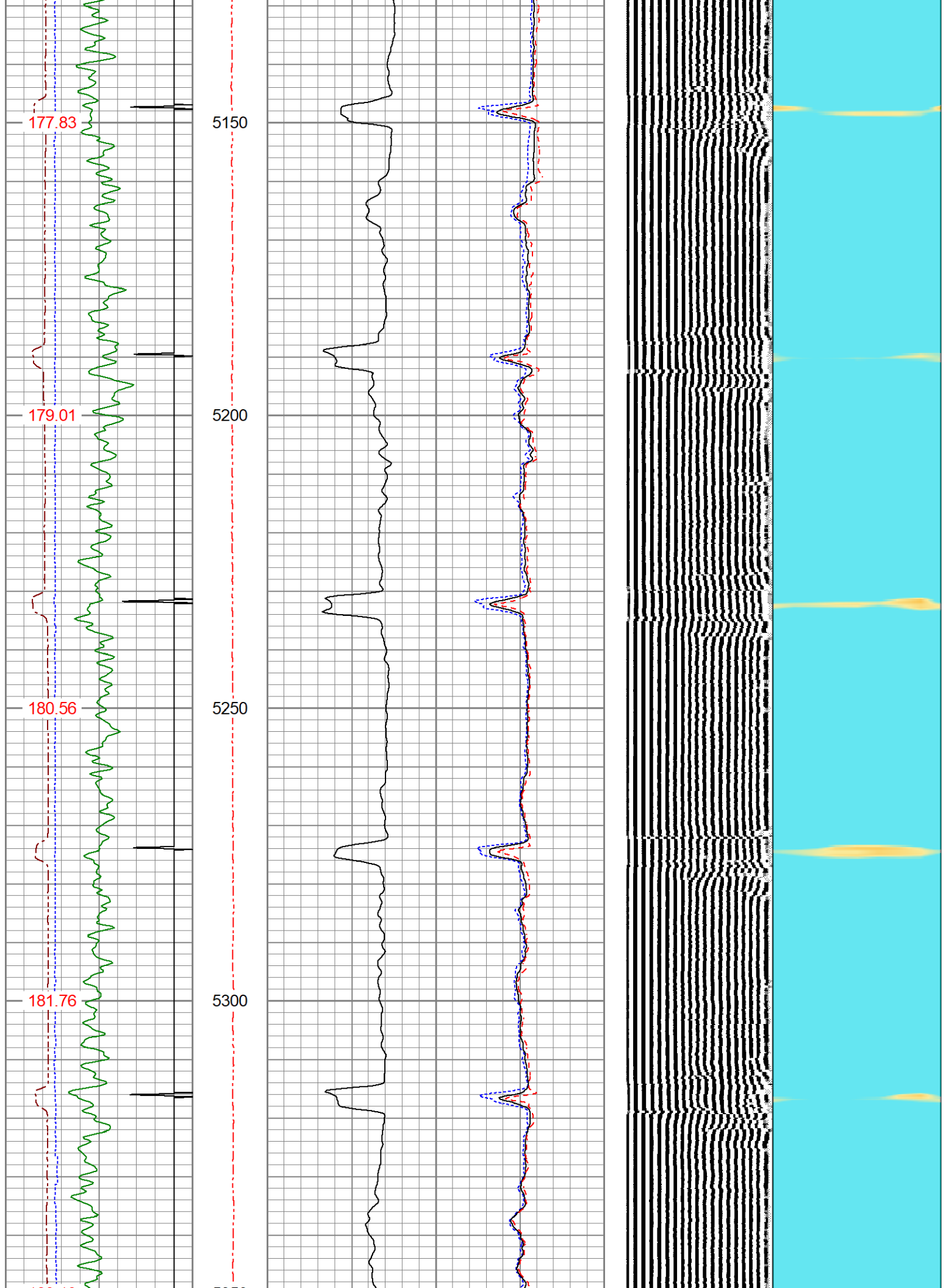


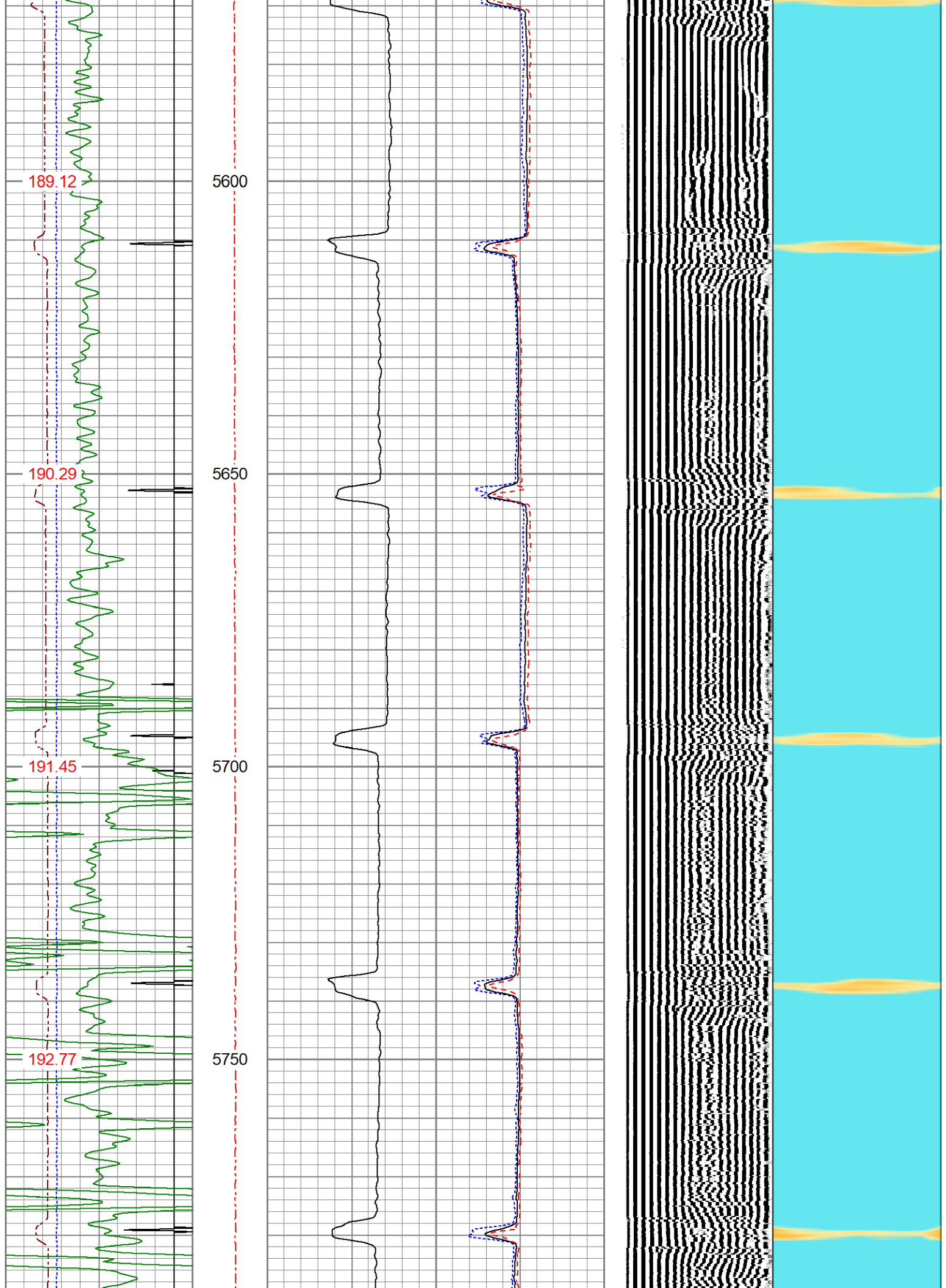


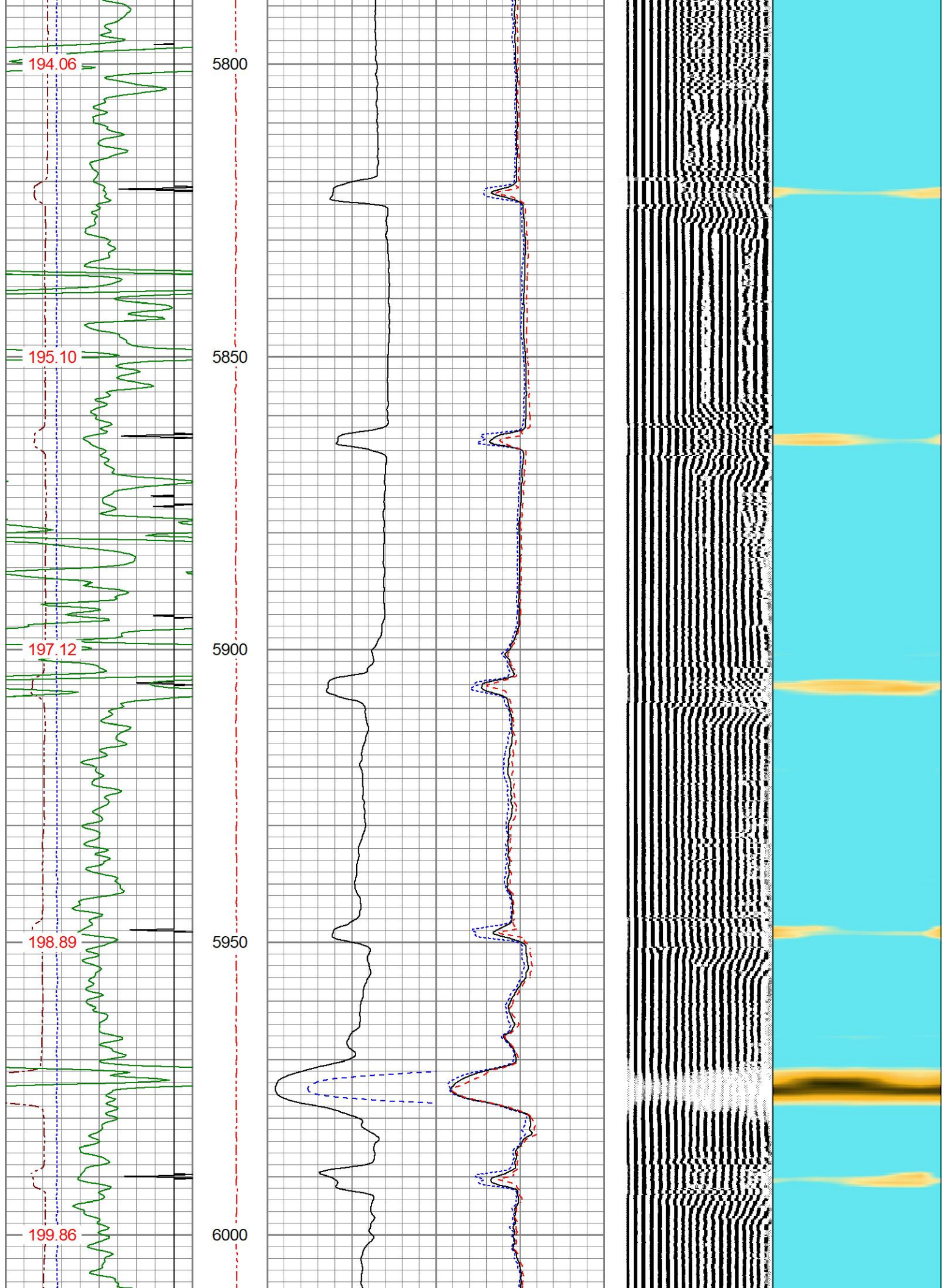


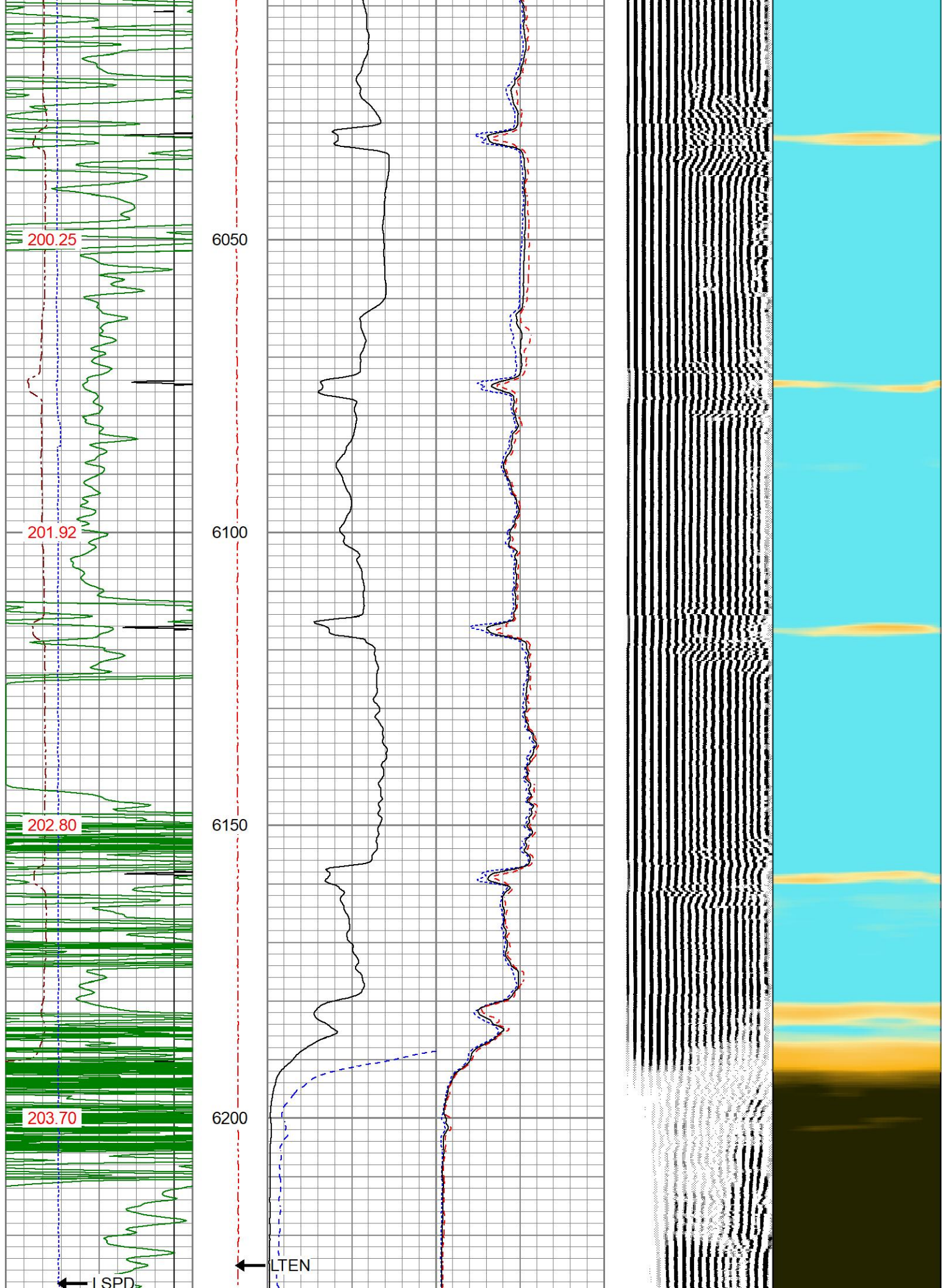


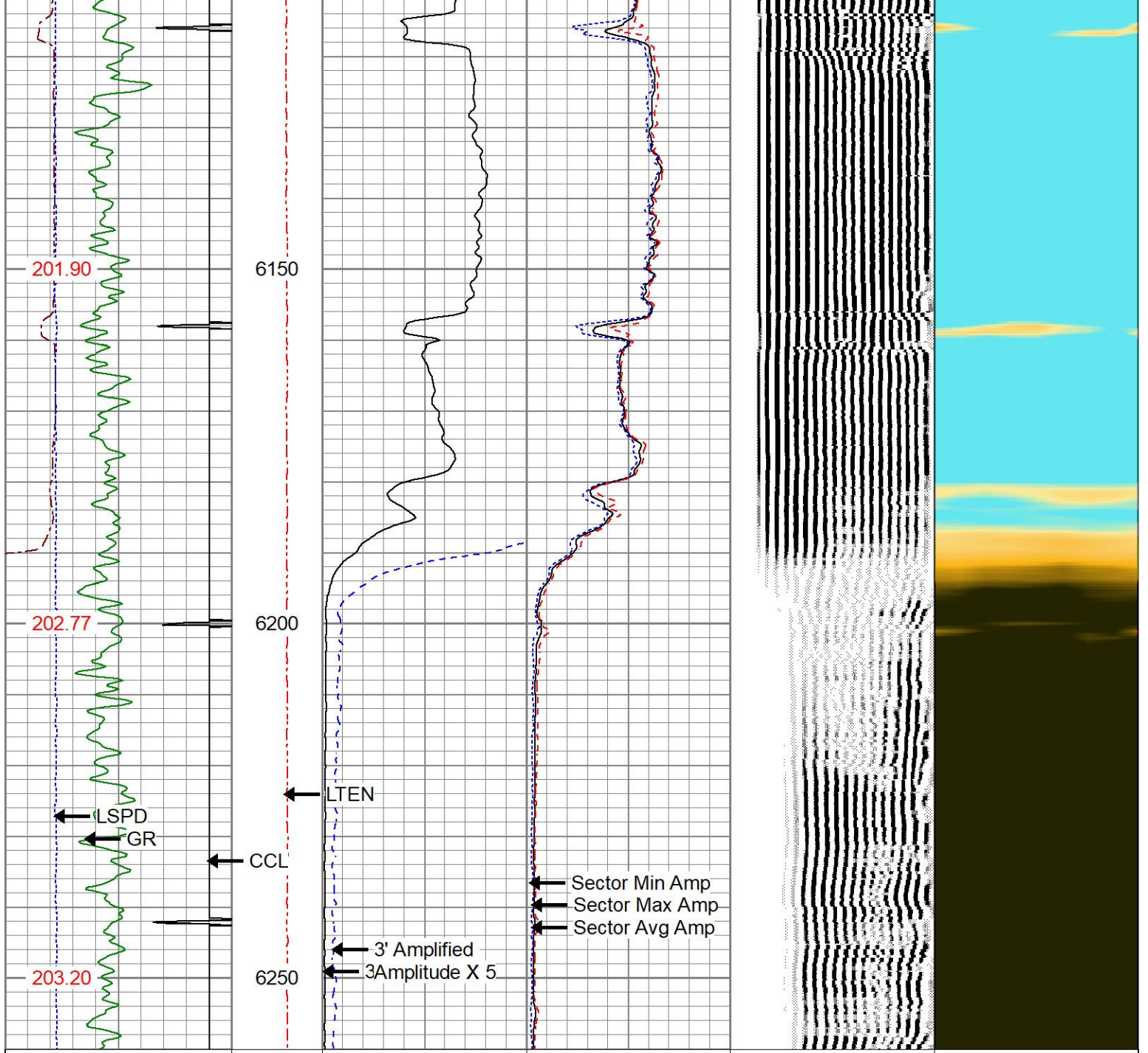












240	3FT TT (usec)	140	LTEN	3' Amplitude	0	Sector Min Amp	150	200	VDL (usec)	1200	1	Sector Map	8
-9	CCL	1	(lb)	(mV)	100	Sector Avg Amp							
0	GR	150	0	3' Amplified	0		150						
-150	LSPD (ft/min)	150	2000	Amplitude X 5		Sector Max Amp							
	TEMP			(mV)	20		150						
	(degF)												



REPEAT PASS

0 PSI APPLIED AT SURFACE

Calibration Report

Database File 603389_occidental_kodak 34-11_0512322097_20231910_scbl.db
 Dataset Pathname 603389_OCCIDENTAL_KODAK_34-11_051232209/run1/pass8
 Dataset Creation Thu Oct 19 14:20:13 2023

Gamma Ray Calibration Report

Serial Number: 0111
 Tool Model: Tek-Co 2 3/4
 Performed: Thu Oct 19 12:26:33 2023

 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: 858.258 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	1.425	0.700	81.196	56.496	0.700
CAL	0.000	1.119				
5'	-0.004	2.191	0.700	81.196	36.657	0.863
SUM						
S1	0.000	1.682	0.000	100.000	59.469	-0.000
S2	0.000	1.638	0.000	100.000	61.057	-0.000
S3	0.000	1.561	0.000	100.000	64.056	-0.000
S4	0.000	1.458	0.000	100.000	68.579	-0.000
S5	-0.002	1.453	0.000	100.000	68.755	0.133
S6	-0.009	1.466	0.000	100.000	67.794	0.601
S7	0.000	1.573	0.000	100.000	63.580	-0.000
S8	0.000	1.602	0.000	100.000	62.406	-0.000

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	1.119	1.000	0.000

Air Zero Calibration, performed Thu Jun 29 07:02:41 2023:

	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: Thu Oct 13 08:15:31 2022

	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	KODAK 34-11
Field	WATTENBURG
County	WELD
State	CO