



RADIAL BOND LOG WITH GAMMA RAY

Pioneer Energy Services

Company **KERR-MCGEE OIL AND GAS**
 Well **UPRR 42 PAN AM AD 1**
 Field **WATTENBERG**
 County **WELD** State **CO**

Comp. **KERR-MCGEE OIL AND GAS**
 Well **UPRR 42 PAN AM AD 1**
 Field **WATTENBERG**
 Co. **WELD**
 State **CO**

Location: **1320' FSL & 990' FWL SMSW**
LAT 40.06190
LONG -104.86450
SEC 11 TWP 1N RGE 67W
 API #: 05123086020000

Other Services
SQZ
PERFS
 Elevation
 K.B. 5009'
 D.F. 5008'
 G.L. 4999'

Date of Service	JULY 7, 2016		
Run Number	ONE		
Depth Driller or PBTID	8164'		
Depth Logger	5000'		
Bottom Log Interval	4998'		
Top Log Interval	SURFACE		
Open Hole Size	7.875"		
Type Fluid	WATER		
Fluid Level	SURFACE		
Fluid Density	8.33 PPG		
Max. Recorded Temperature	158 F		
Max. Wellhead Pressure	0 PSI		
Wellhead Connection	PACKOFF		
Estimated Cement Top	93'		
Unit Number	P1		
Wireline Size	9/32"		
Location	FT MORGAN, CO		
Recorded By	SCHUMAN		
Witnessed By	MR ROWE		
Size	Wt/Ft	Top	Bottom
Tubing Record			
Surface Casing	8.625"	24#	SURFACE 232'
Production Casing	4.5"	11.6#	SURFACE 8215'
Liner Record			

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

CORRELATED -15' TO SCHLUMBERGER CBL DATED 7-7-1996.

Cement bond tool free-pipe calibrated to 81mV for 4.5" casing @ depth of 4791'


THANK YOU FOR USING PIONEER ENERGY SERVICES!

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: SCHUMAN	SCBL	141167
Operator: YOUNG	GR	1408-106
Operator:		
Operator:		

Top - Bottom

BHTEMP_Src	PPT usec	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	SRFTEMP degF
TEMP	0	11.6	0	0.7	0.08	0
CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in	
0	4.5	0	0	100	7.875	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
			Cable Head-Titan 143 1 7/16" Titan Cable Head	1.03	1.43	2.00	
			Centralizer-169 Titan Non-ADJ Titan 1 11/16" Non Adjustable Centralizer	2.17	2.88	22.00	
TEMP	13.46						
WVFS8	11.23			SCBL-275 Probe w Temp New Mod (141119.17) Probe Radii Bond Tool with Temperature	11.23	2.75	95.00
WVFS7	11.23						
WVFS6	11.23						
WVFS5	11.23						
WVFS4	11.23						
WVFS3	11.23						
WVFS2	11.23						
WVFS1	11.23						
WVFCAL	11.23						
WVF3FT	11.23						
WVF5FT	10.23						
HEADVOLT	6.98						
			Centralizer-169 Titan Non-ADJ Titan 1 11/16" Non Adjustable Centralizer	2.17	2.88	22.00	
CCL	3.91						

GR	1.17		GR_CCL-275 Probe GR-CCL Dig (1112114.54 Probe 2 3/4" Gamma Ray / CCL Digital)	2.75	60.00
			Bullnose-Titan GO Pin Pressure Cap	0.27	1.38
		Dataset: uprr 42 pan am ad 1_rbl.db: field/well/rbl/pass1 Total length: 19.34 ft Total weight: 202.00 lb O.D.: 2.88 in			




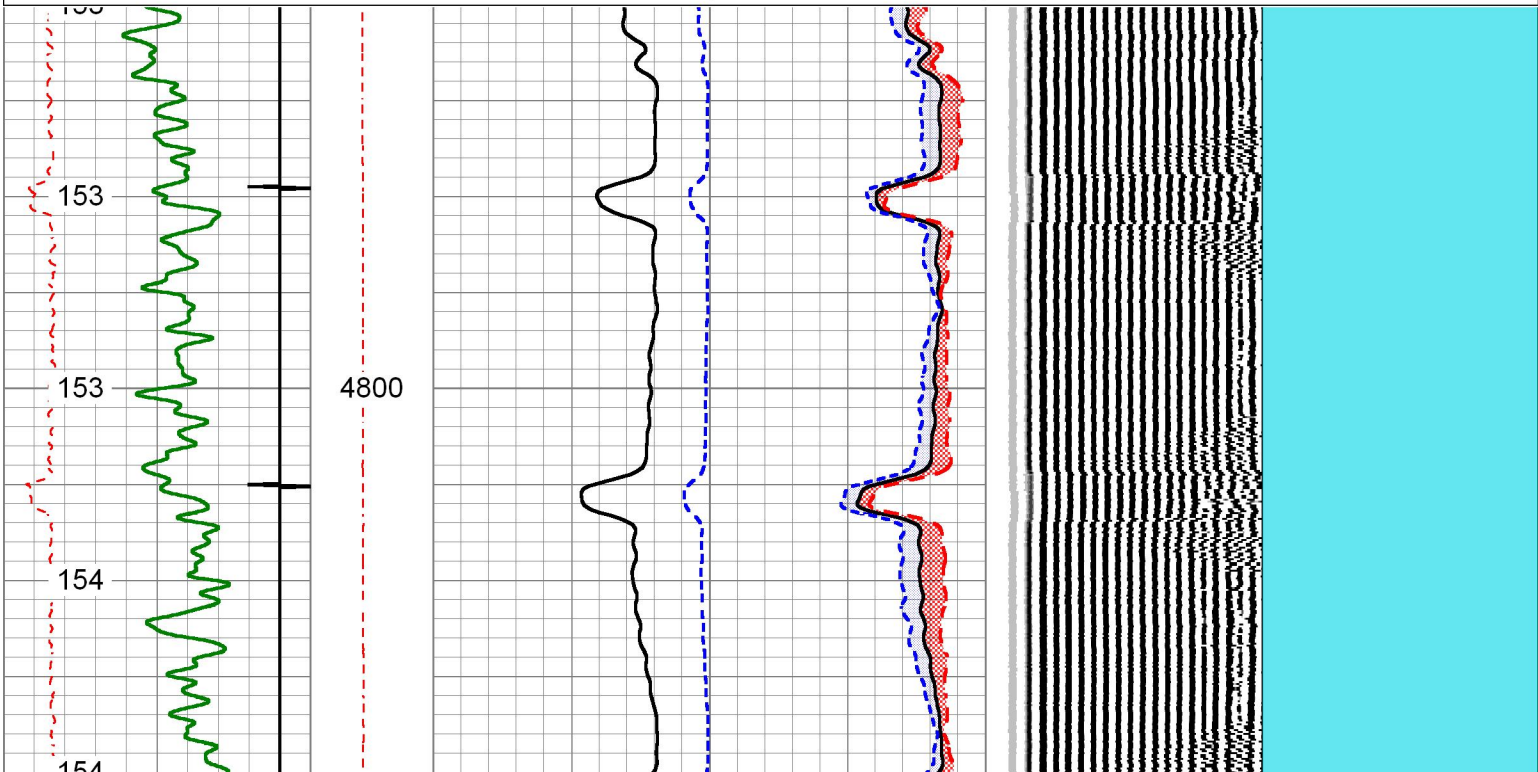
PIONEER
Pioneer Energy Services

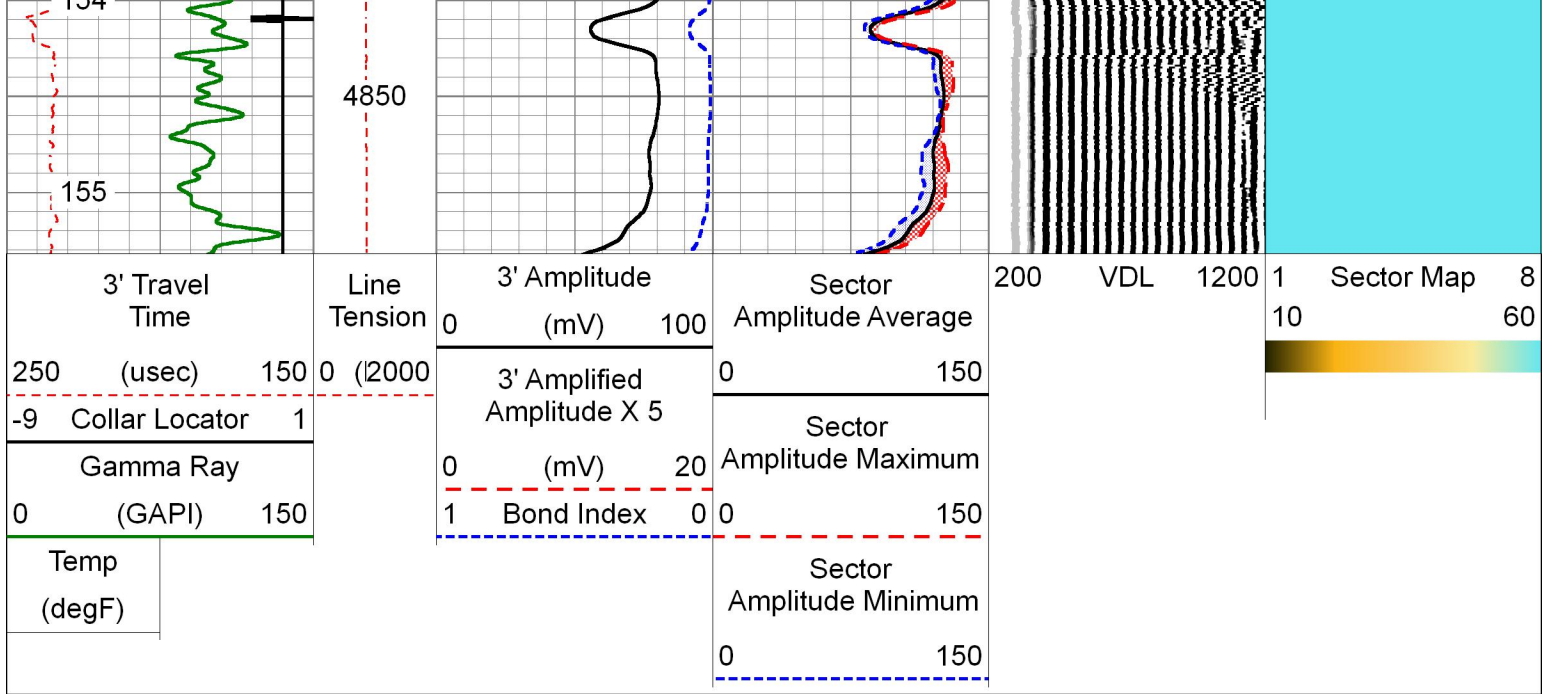
FREE PIPE SECTION


ZERO PSI APPLIED AT SURFACE

Database File	uprr 42 pan am ad 1_rbl.db
Dataset Pathname	rbl/free
Presentation Format	pinr_scbl
Dataset Creation	Thu Jul 07 12:33:09 2016
Charted by	Depth in Feet scaled 1:240

3' Travel Time	Line Tension	3' Amplitude (mV)	Sector Amplitude Average	200	VDL	1200	1	Sector Map	8
250 (usec) 150	0 (2000)	0 100	0 150				10		60
-9 Collar Locator 1		3' Amplified Amplitude X 5							
Gamma Ray		0 (mV) 20	Sector Amplitude Maximum						
0 (GAPI) 150		1 Bond Index 0	0 150						
Temp (degF)			Sector Amplitude Minimum						
			0 150						



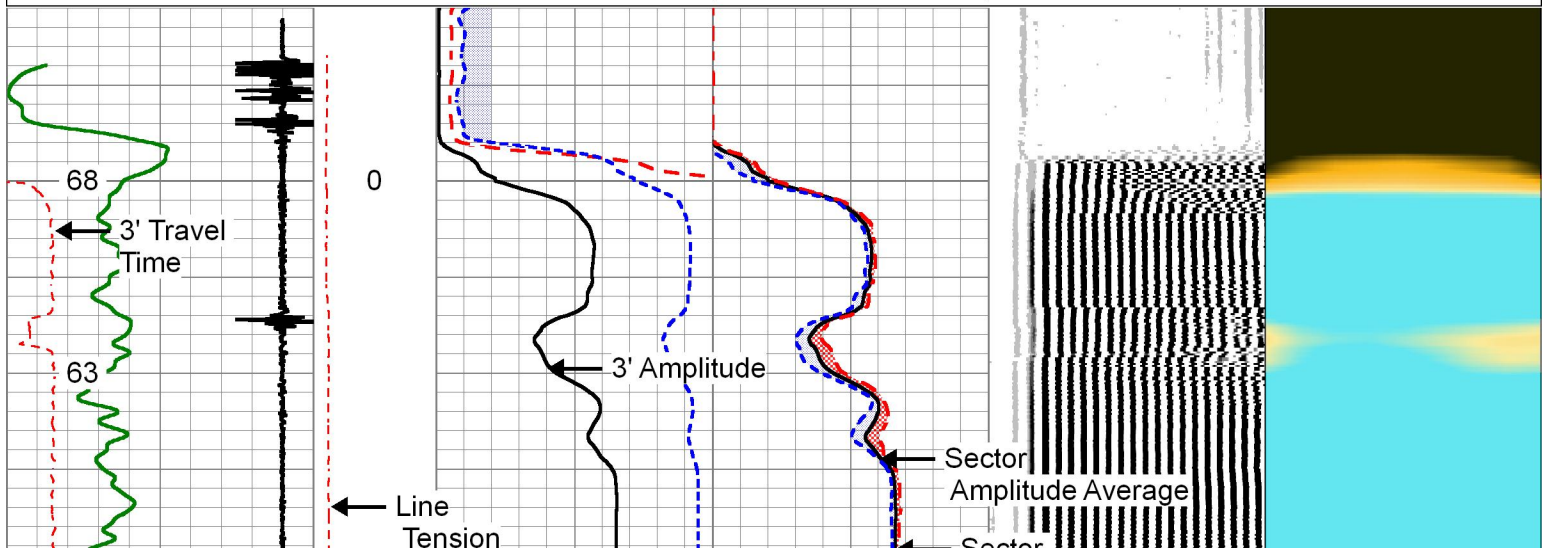
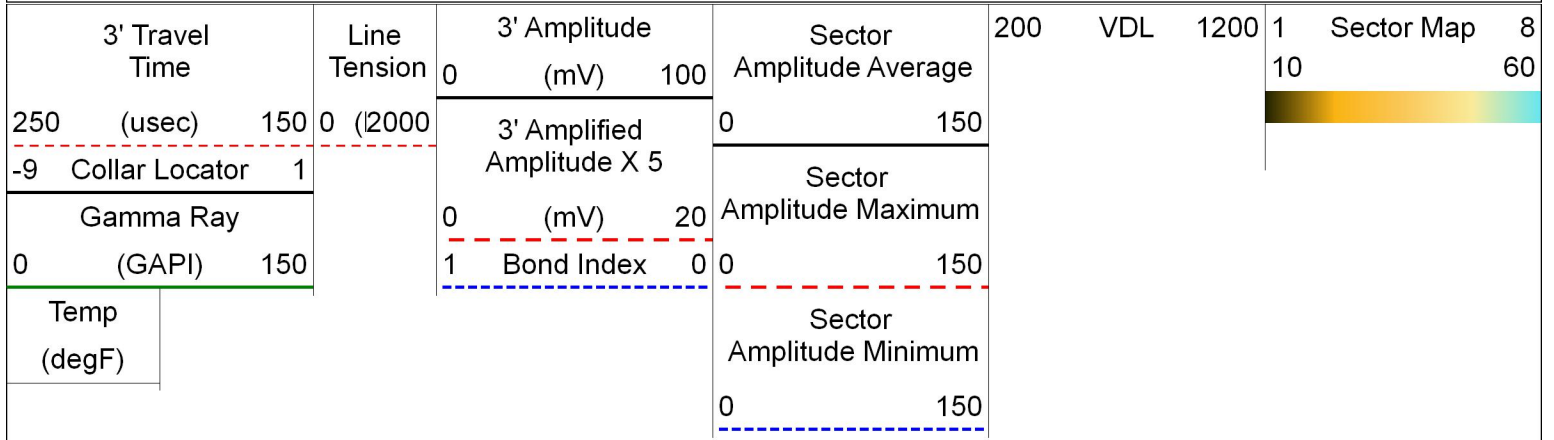


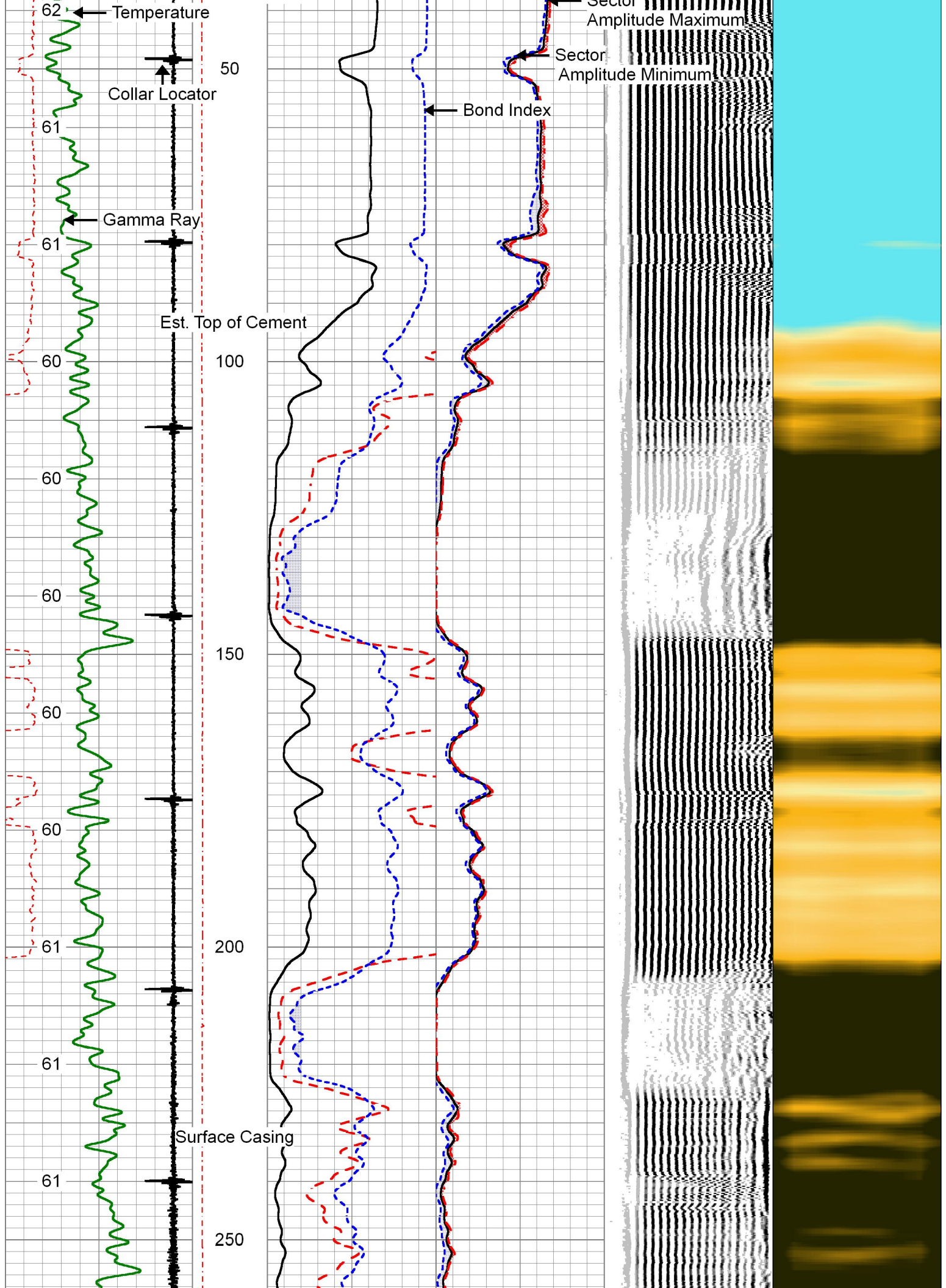


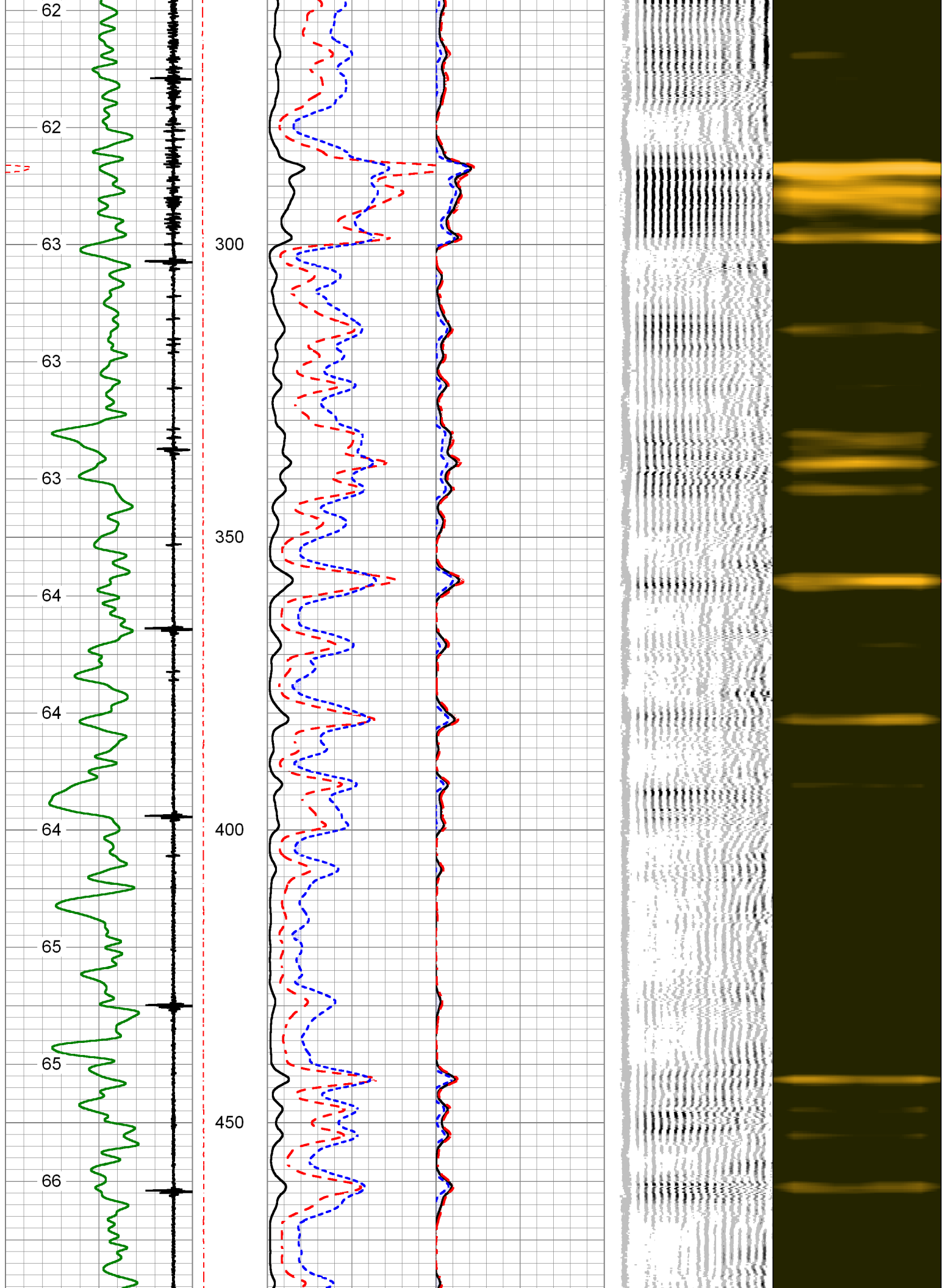
MAIN LOG

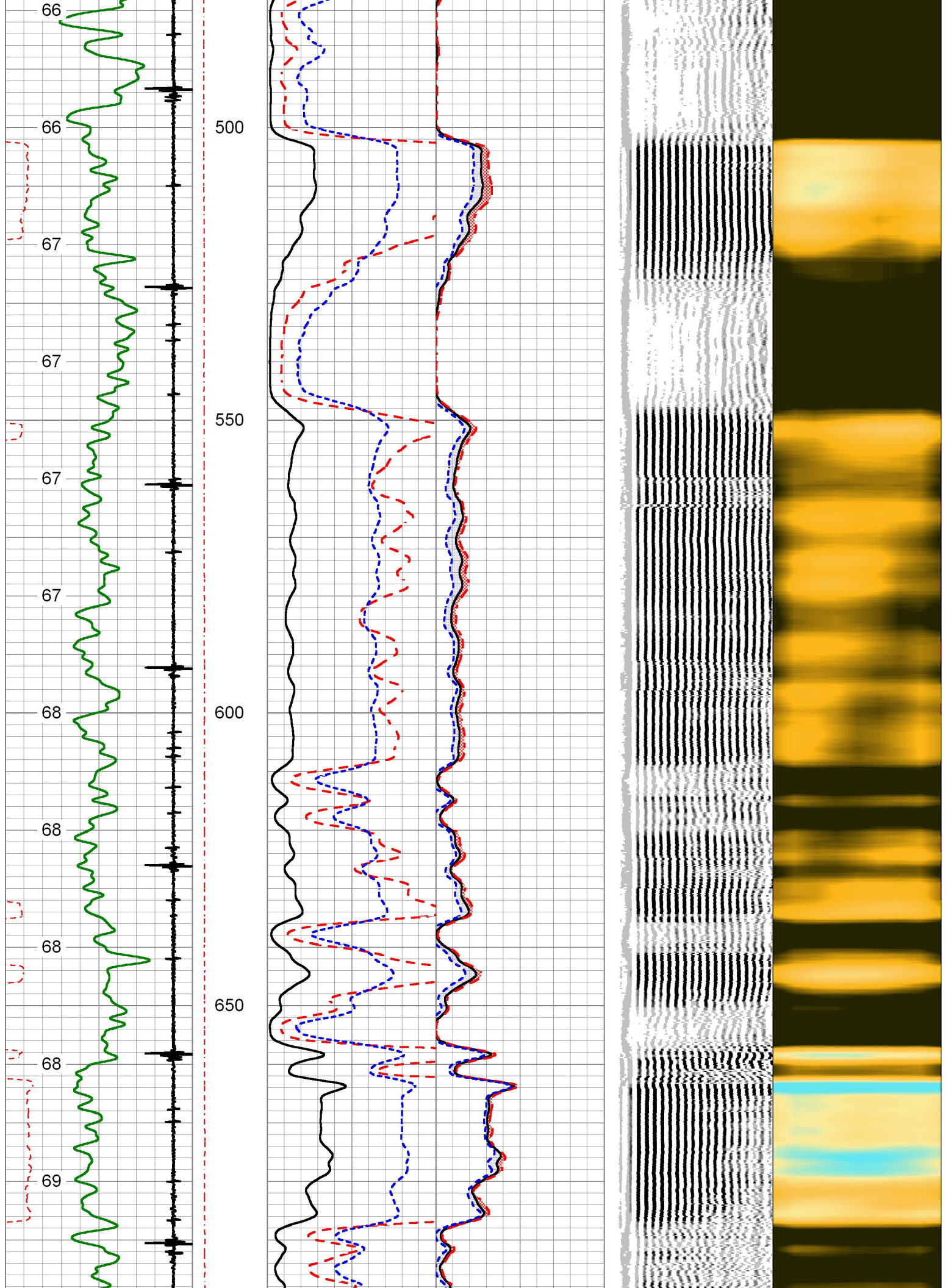
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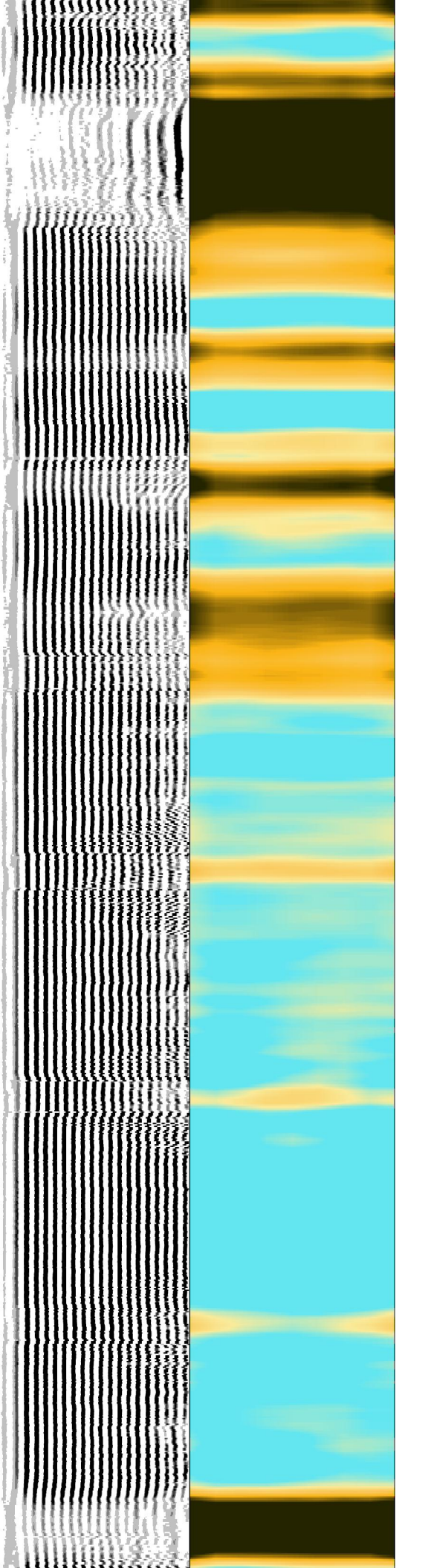
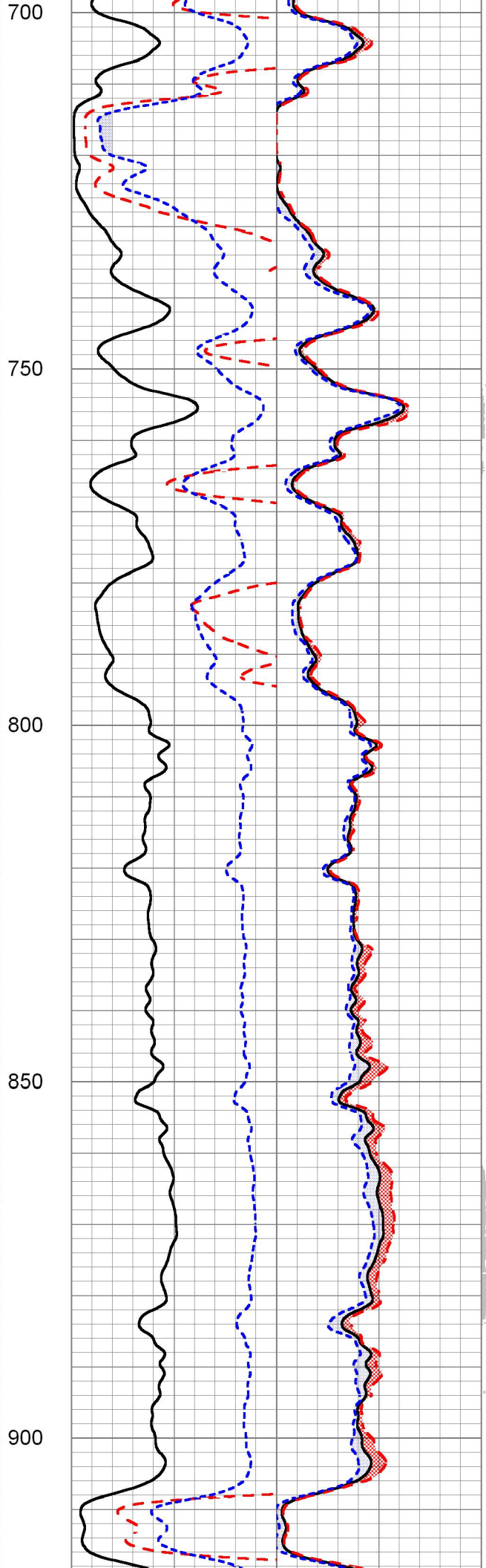
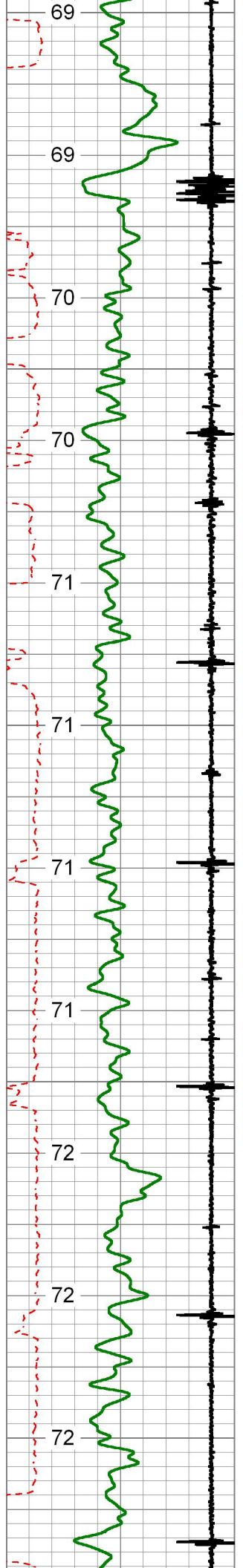
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 Presentation Format pinr_scb1
 Dataset Creation Thu Jul 07 11:18:07 2016
 Charted by Depth in Feet scaled 1:240

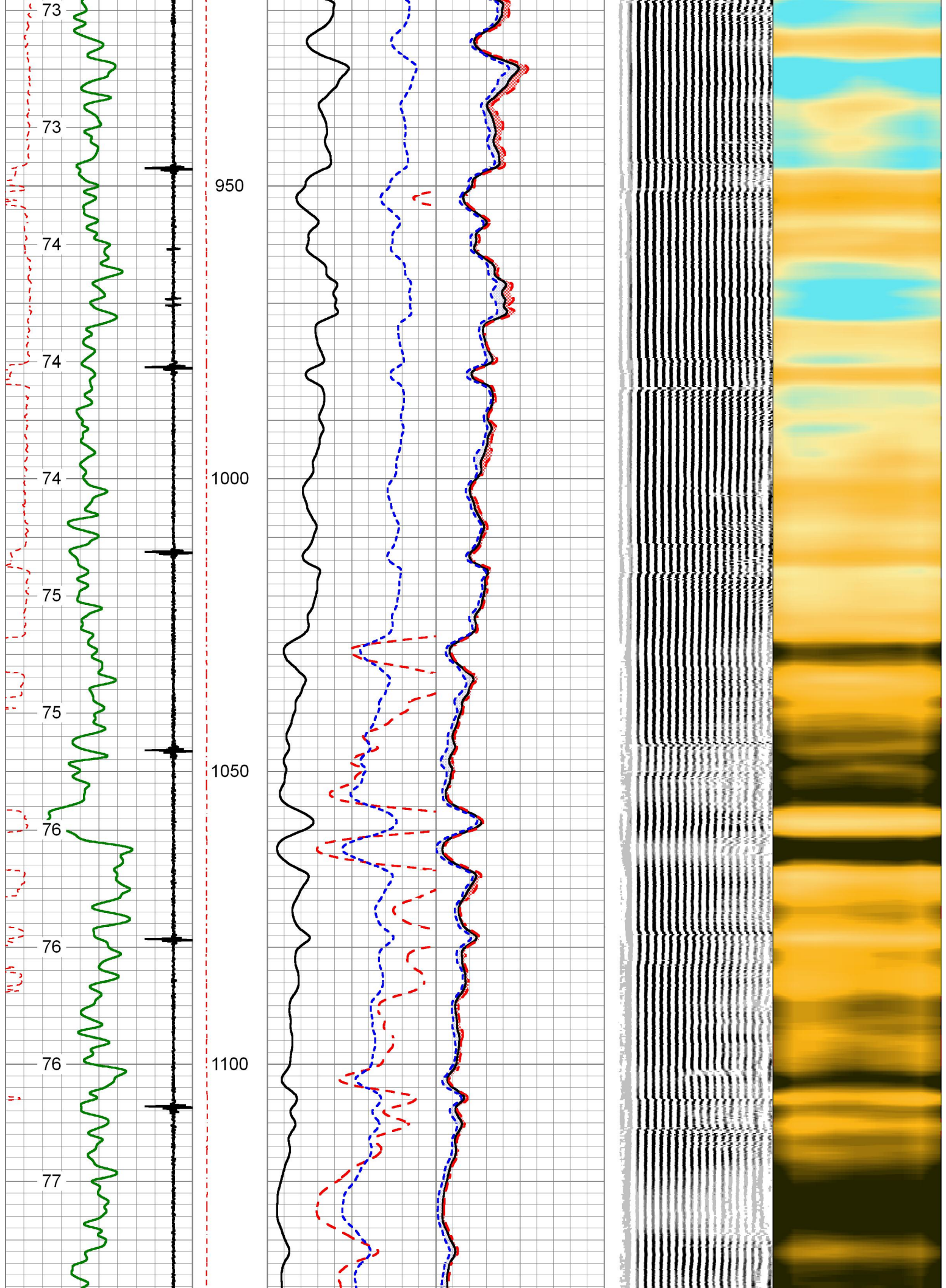


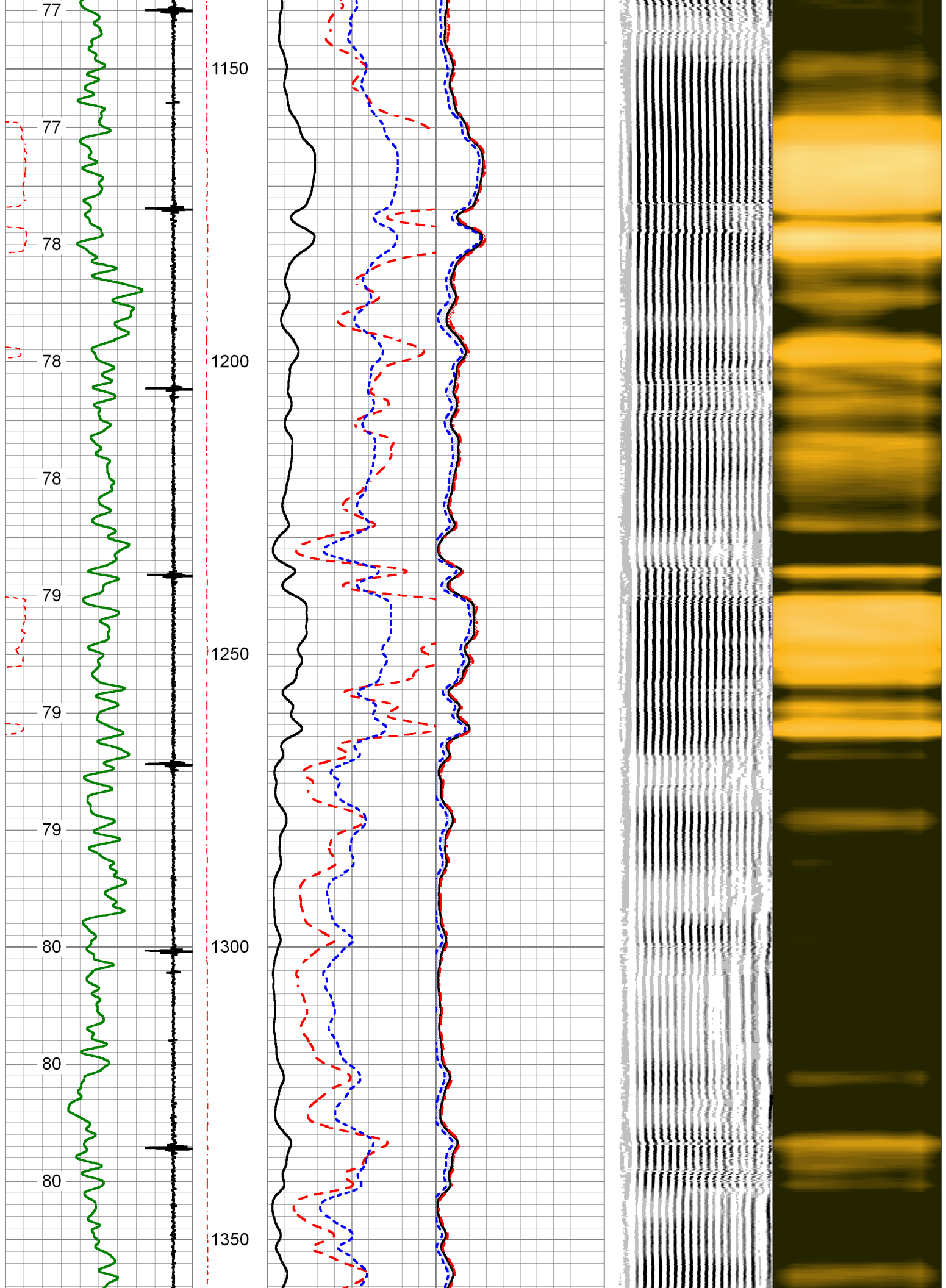


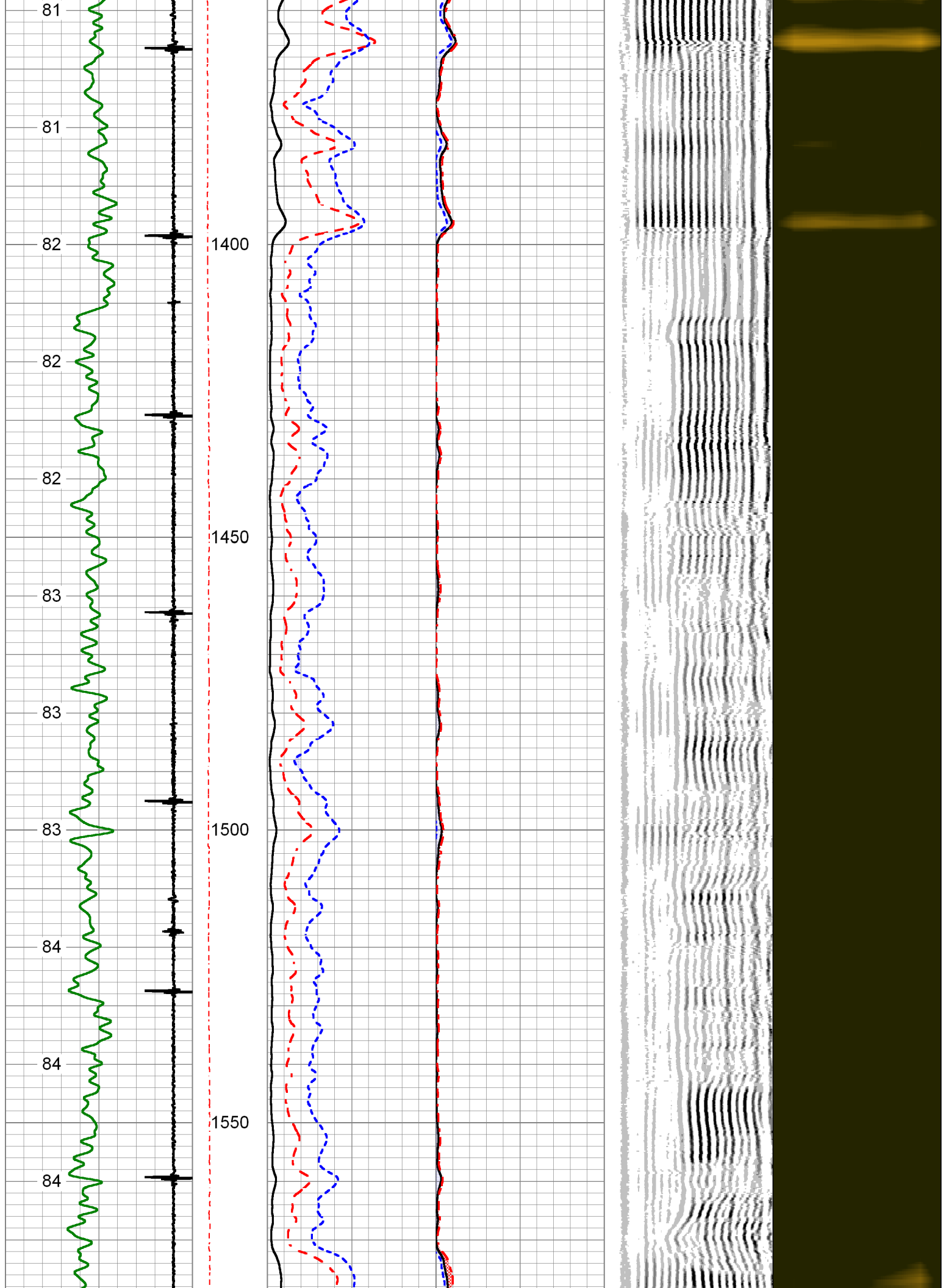


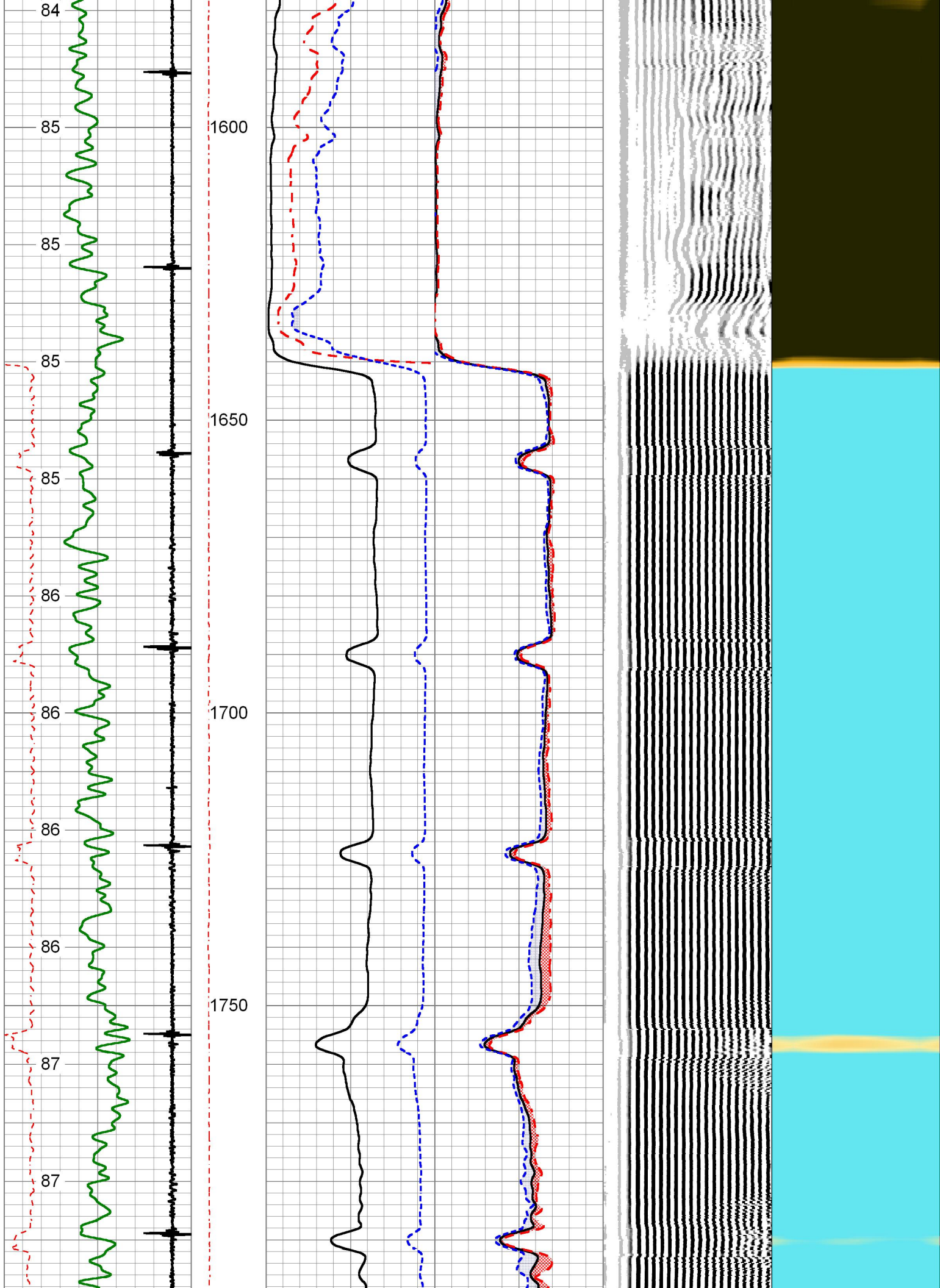


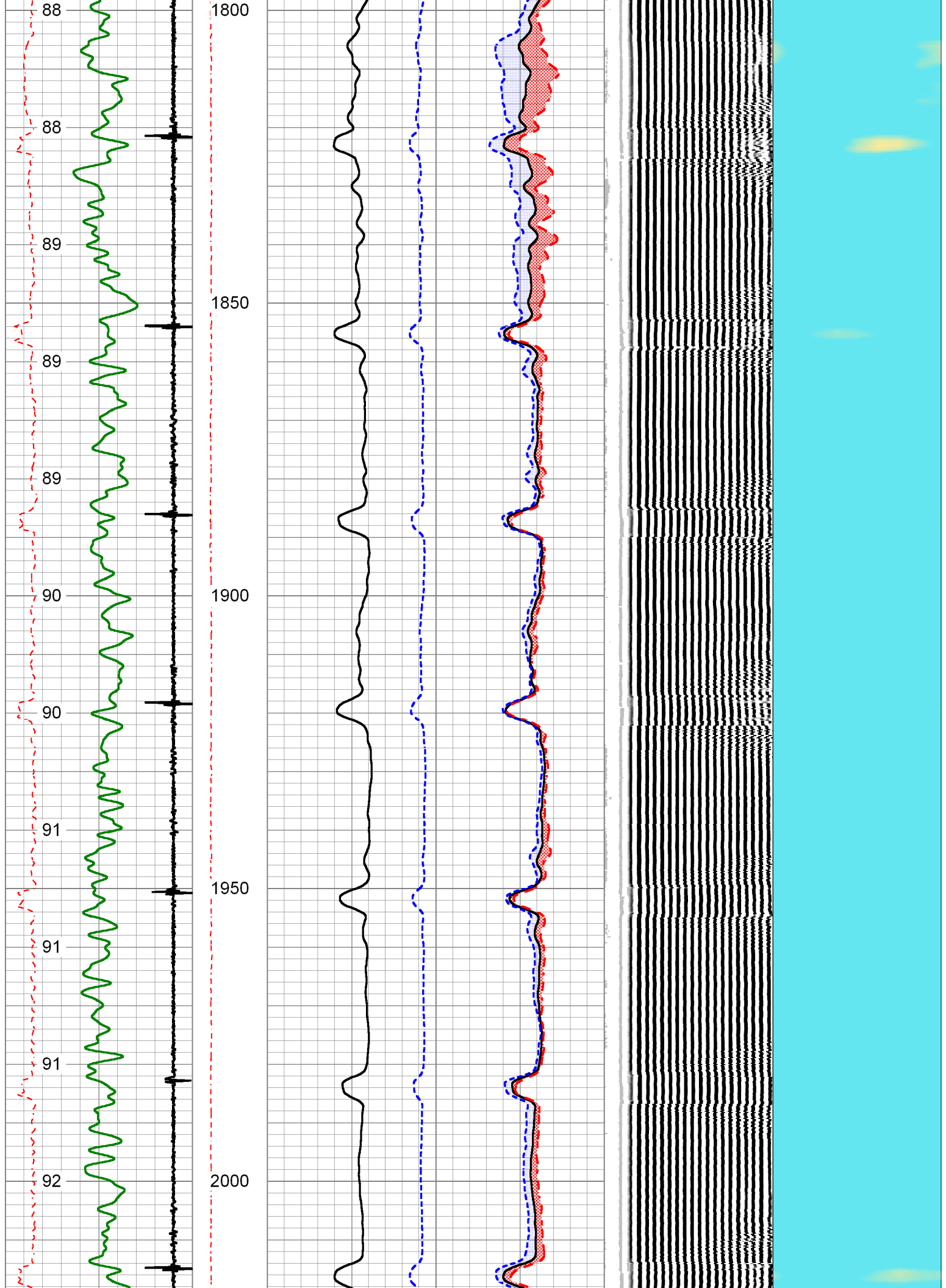


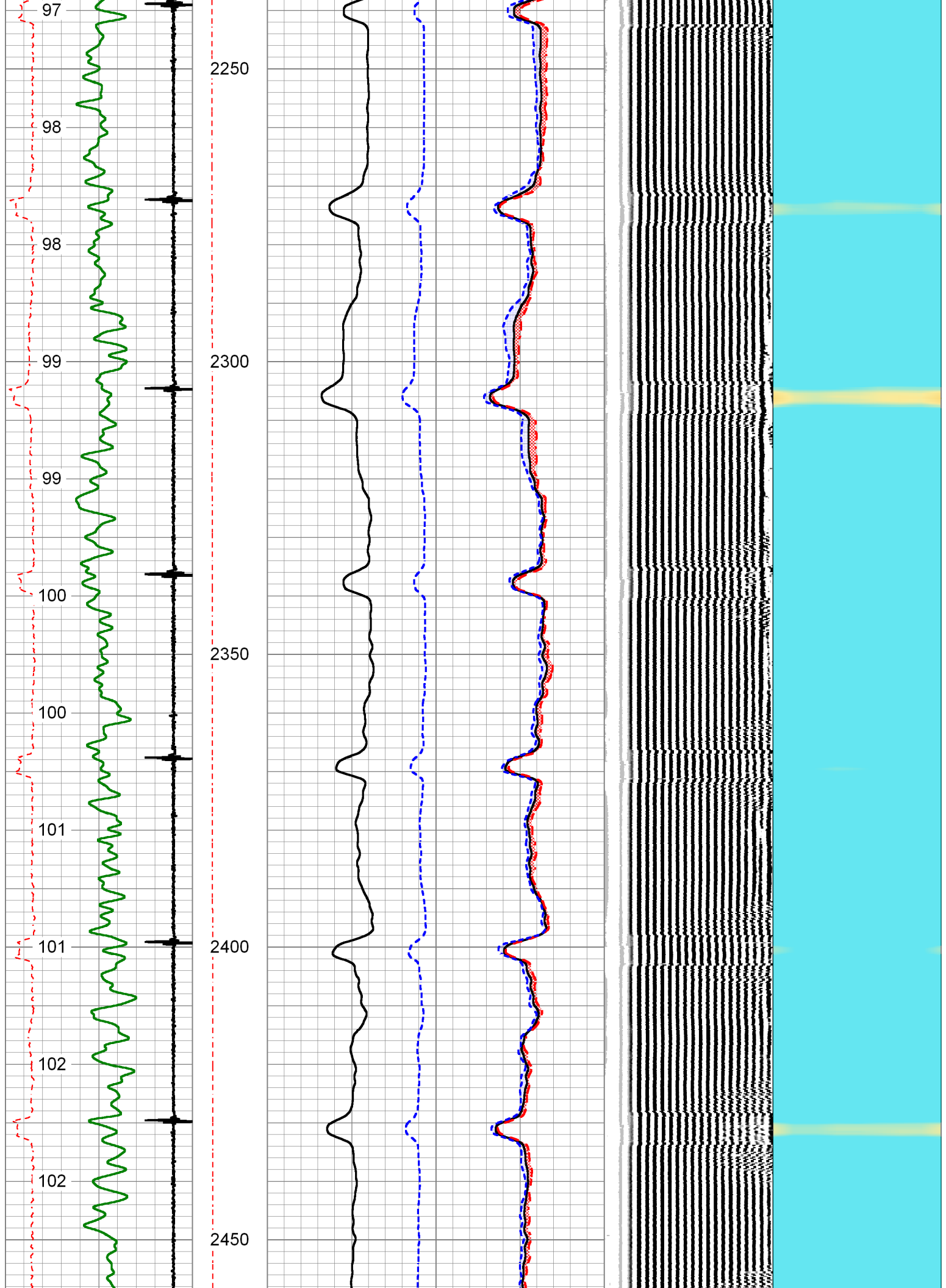


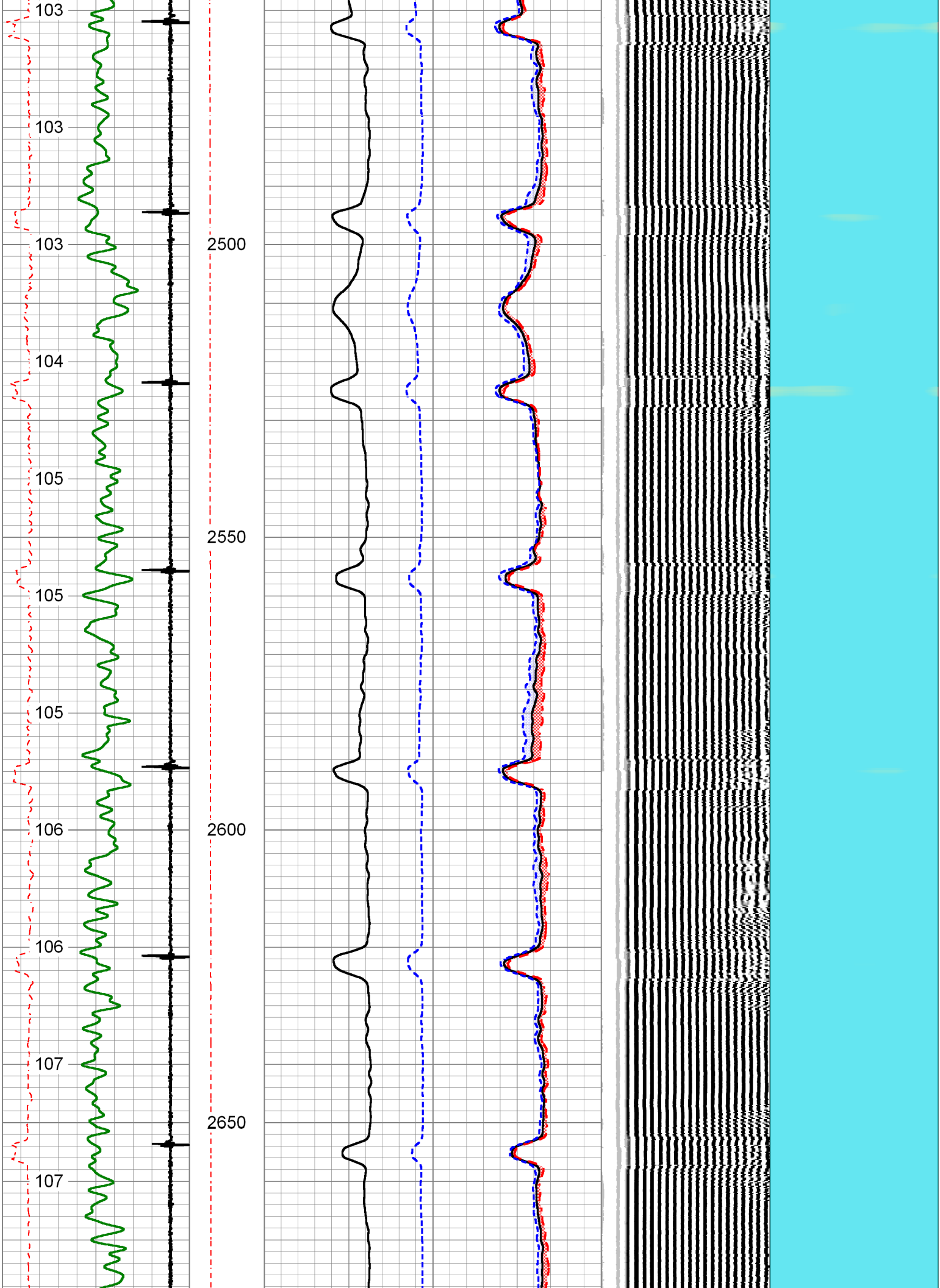


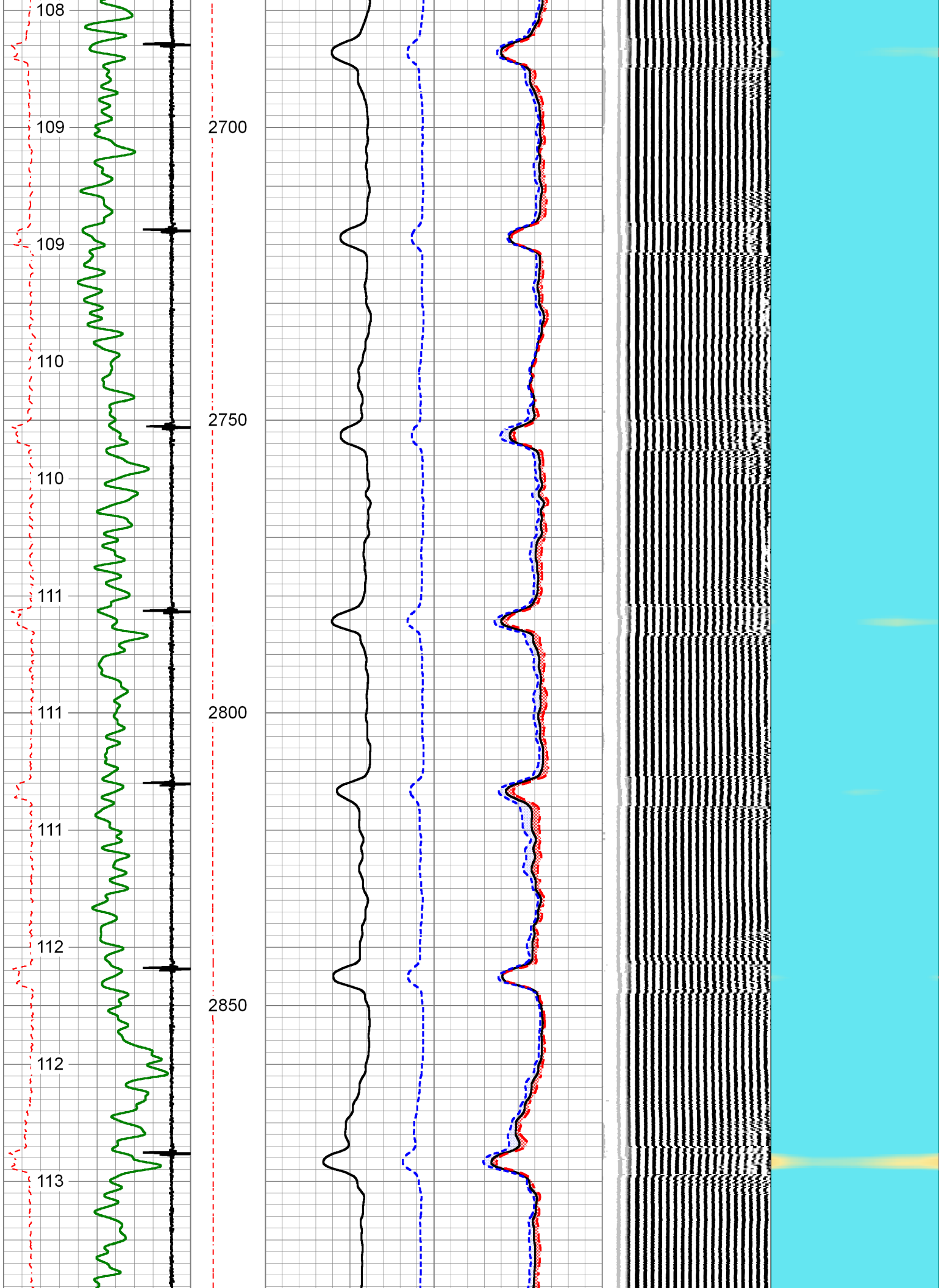


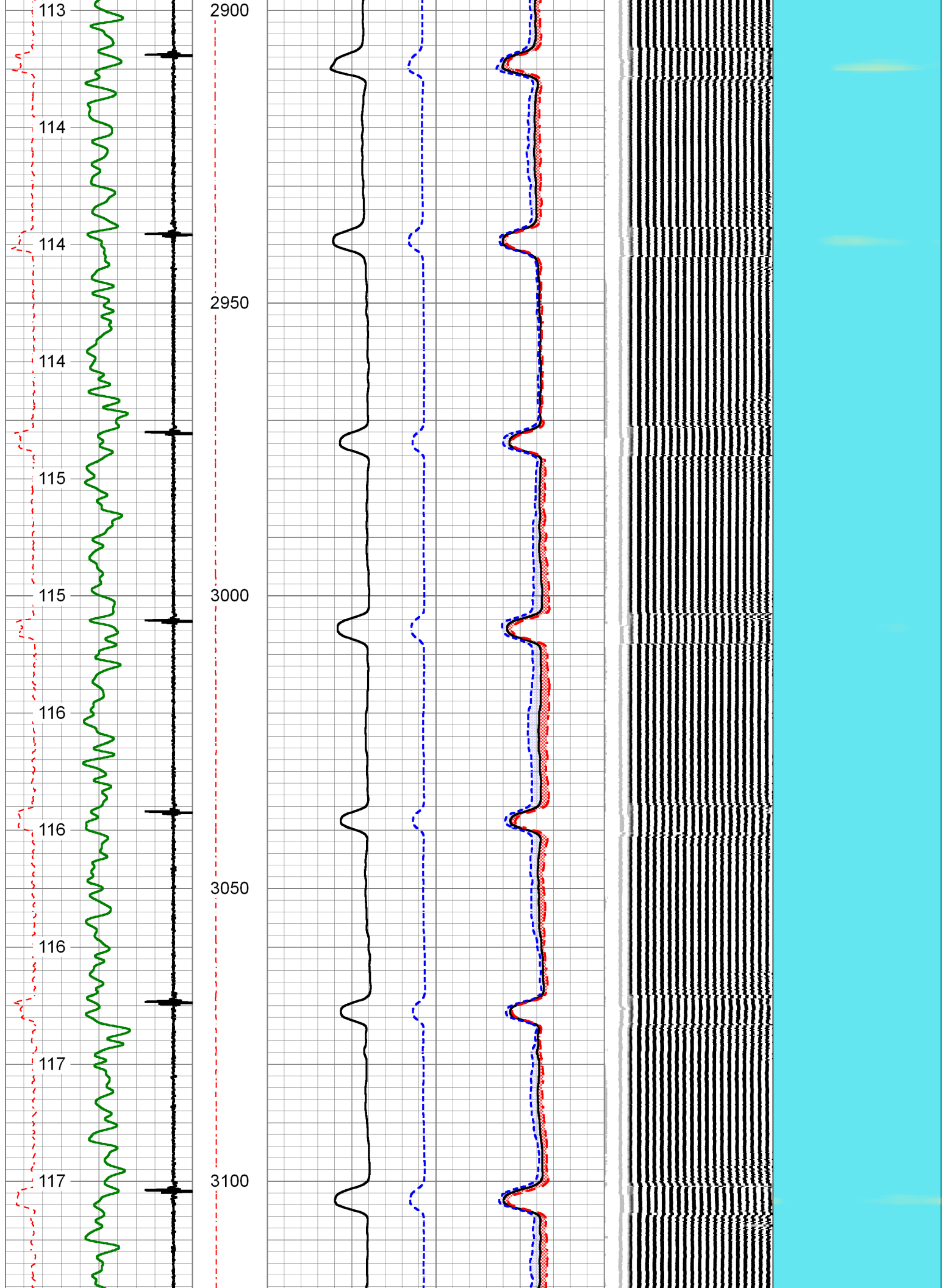


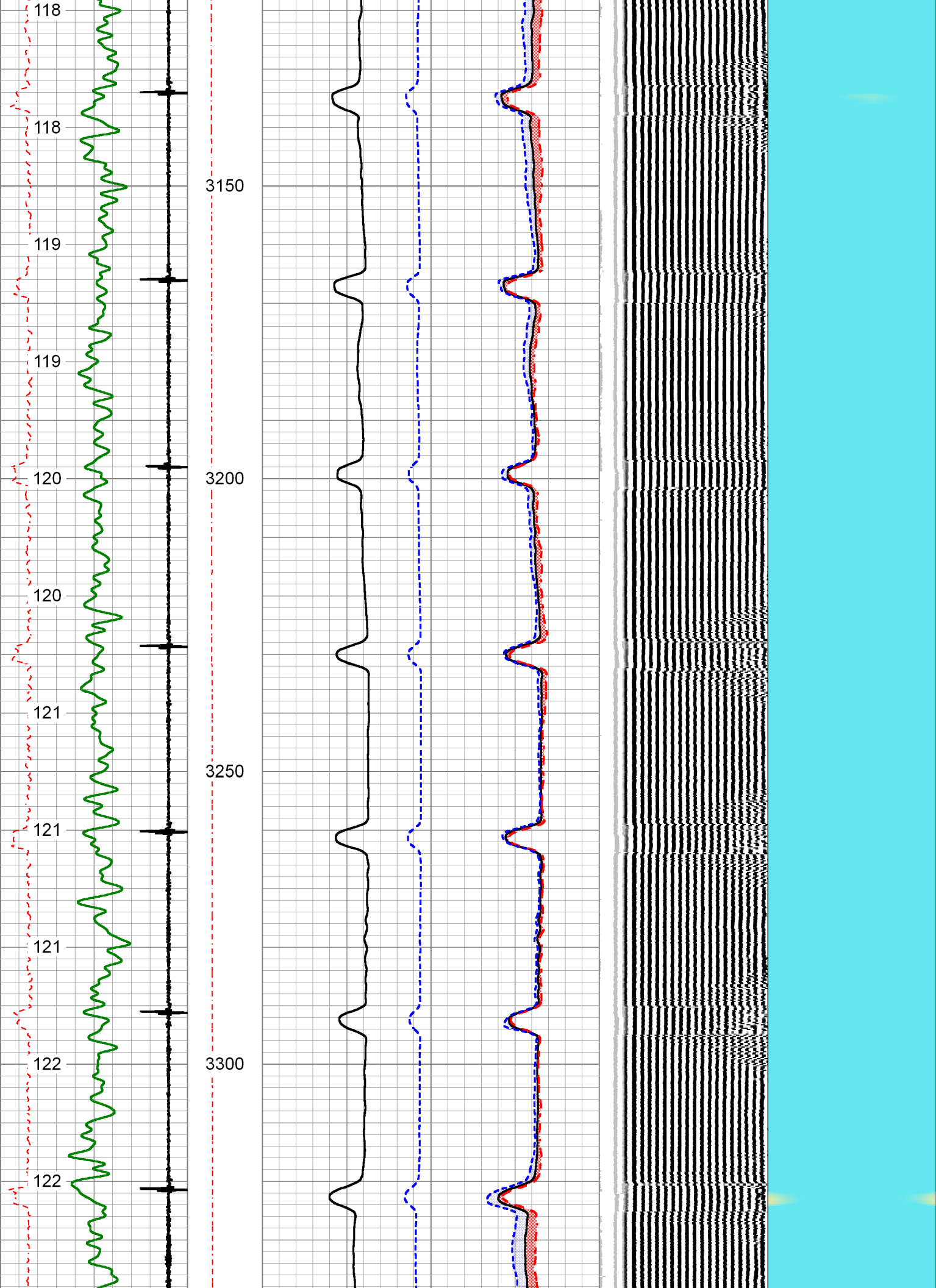


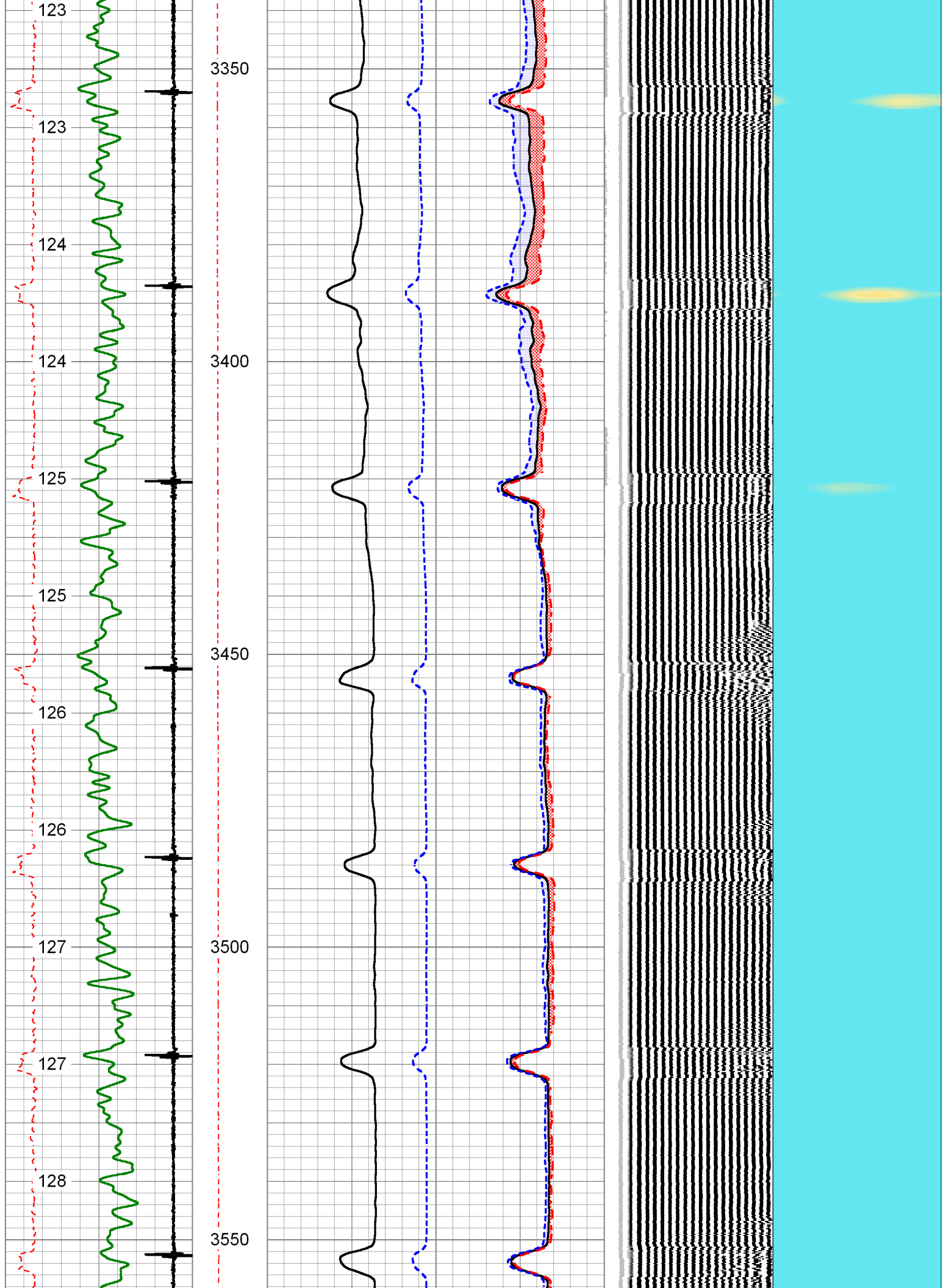


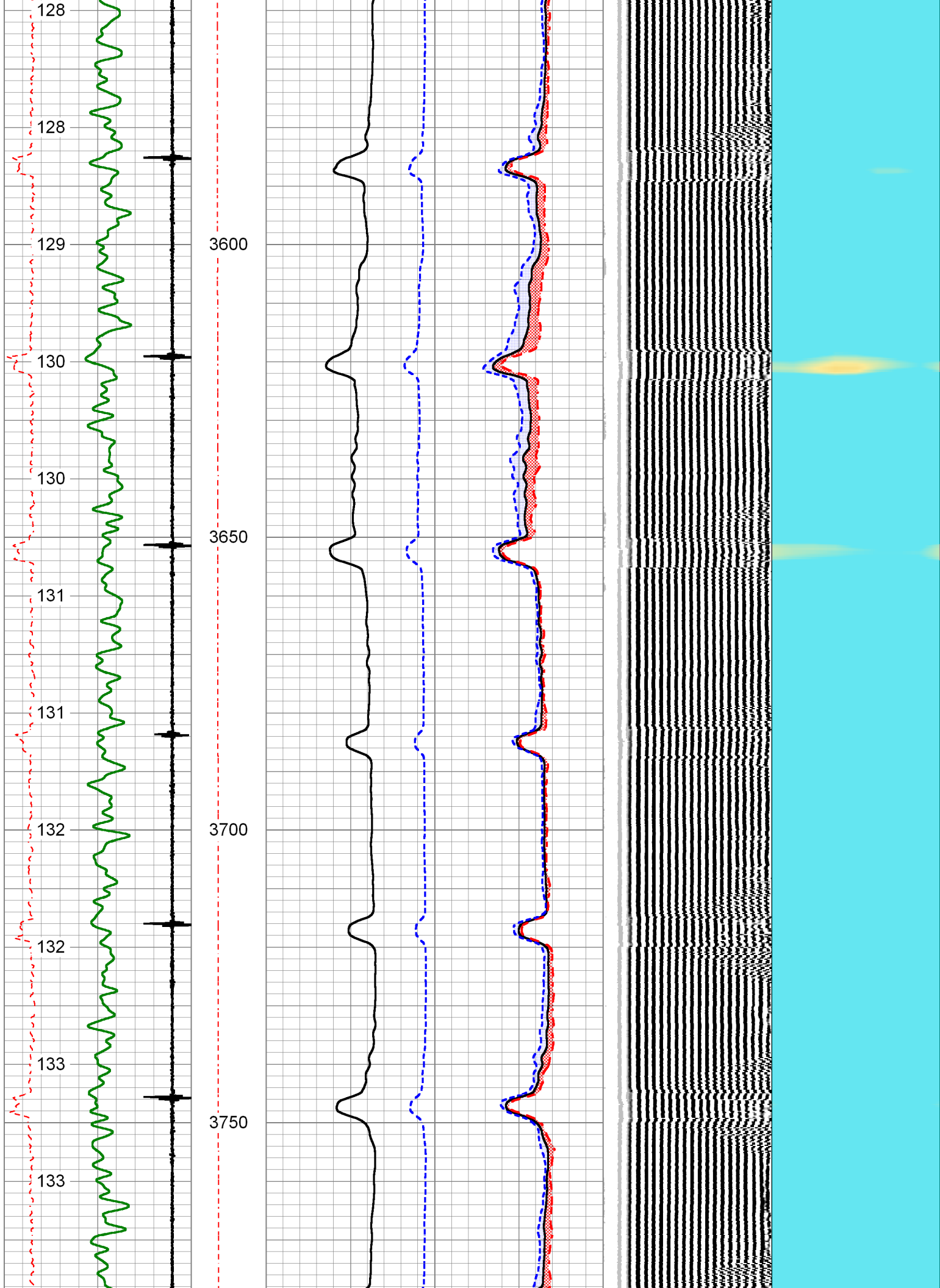


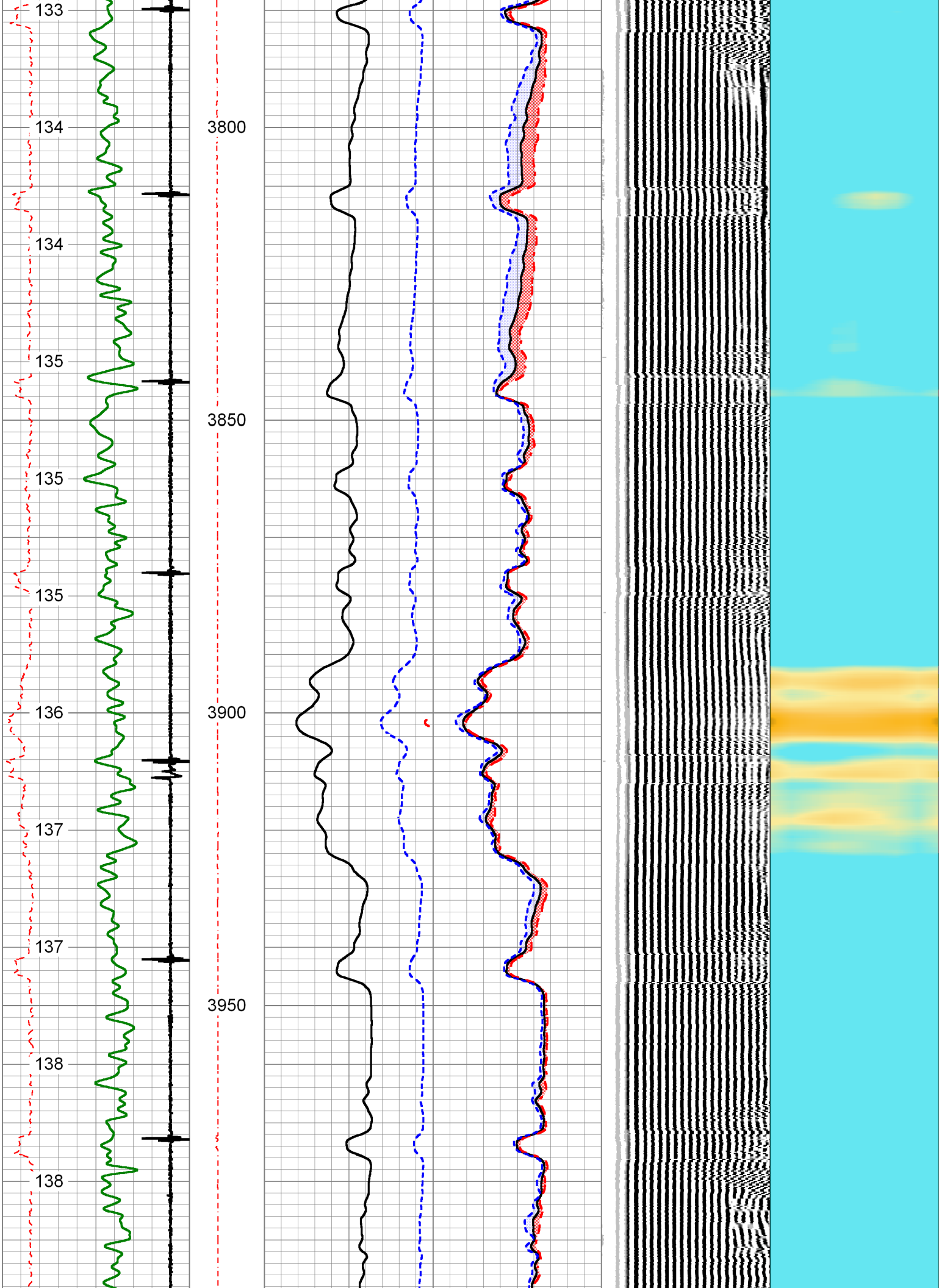


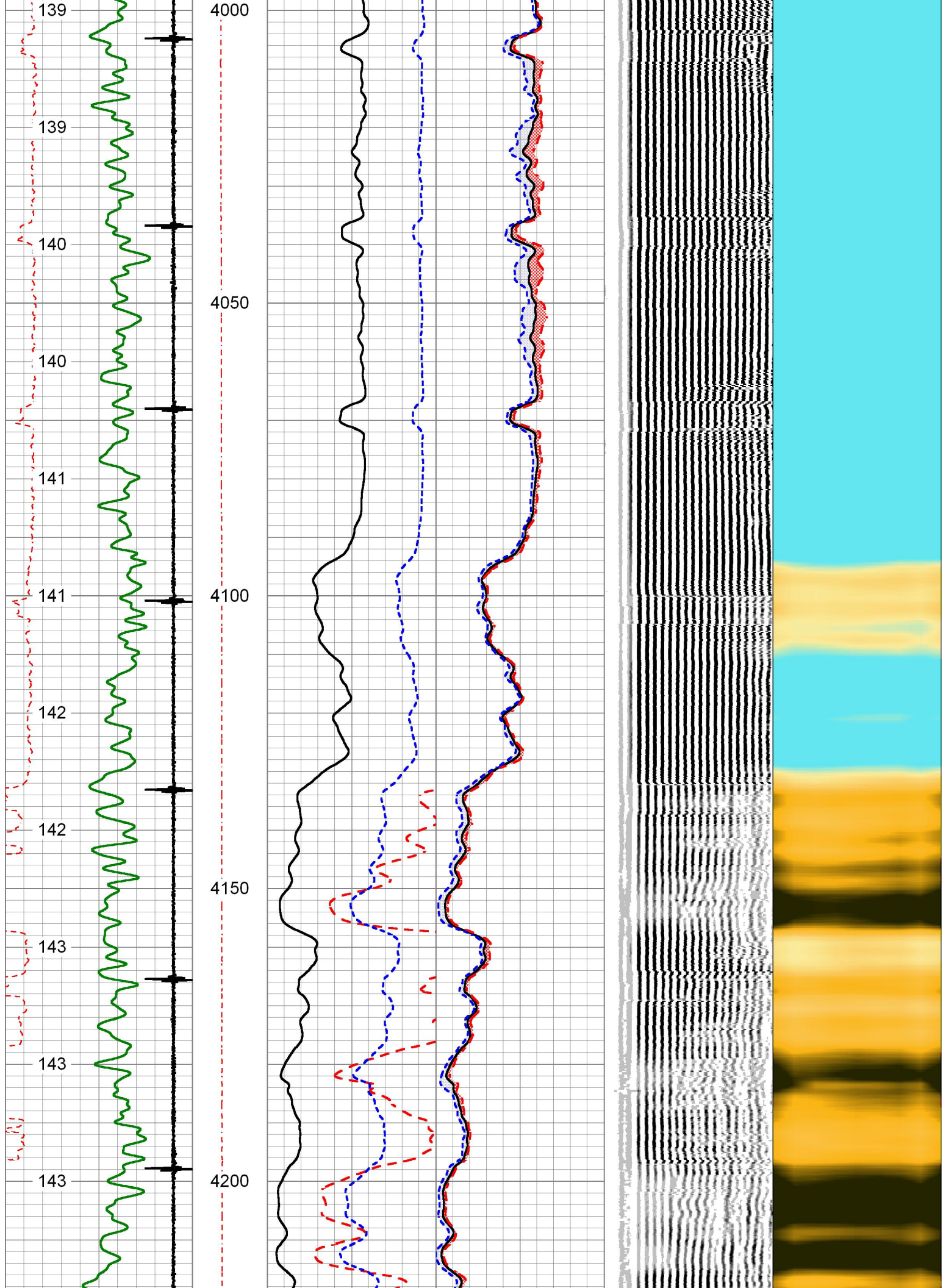


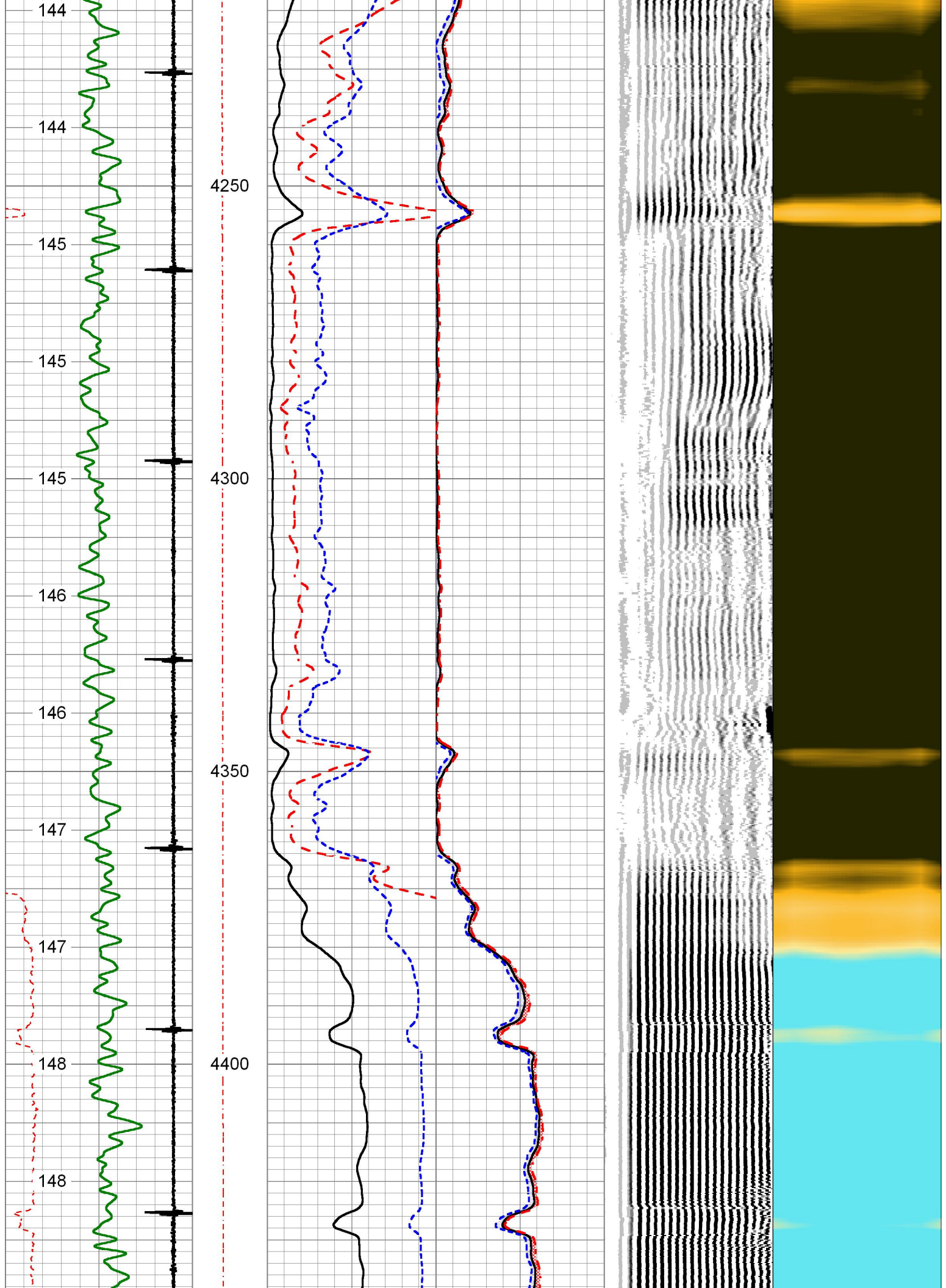


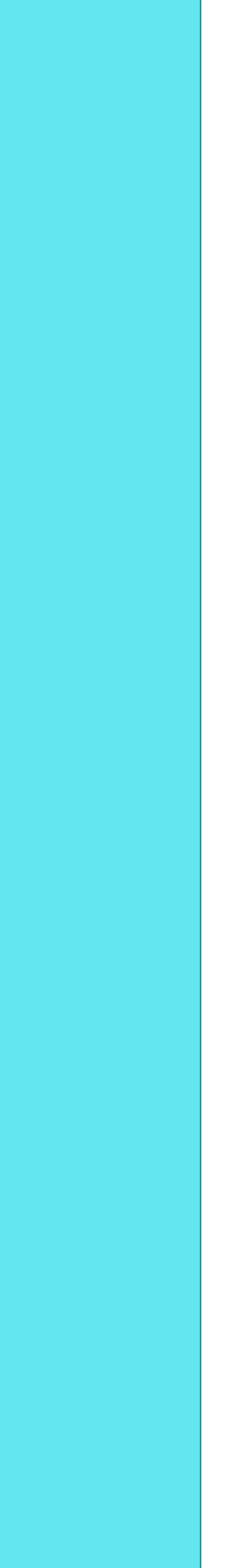
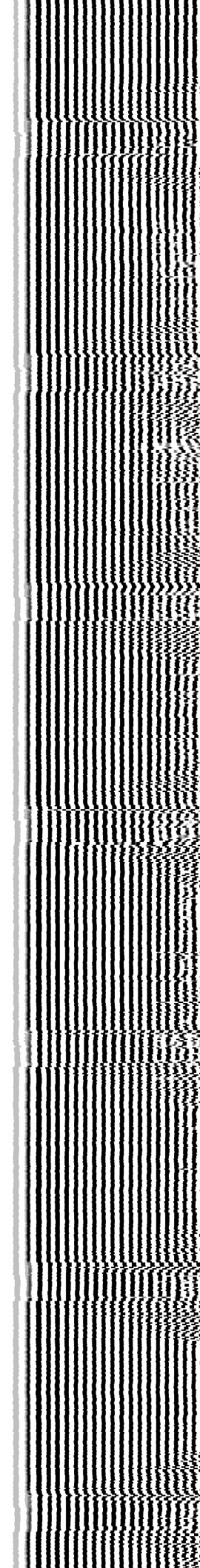
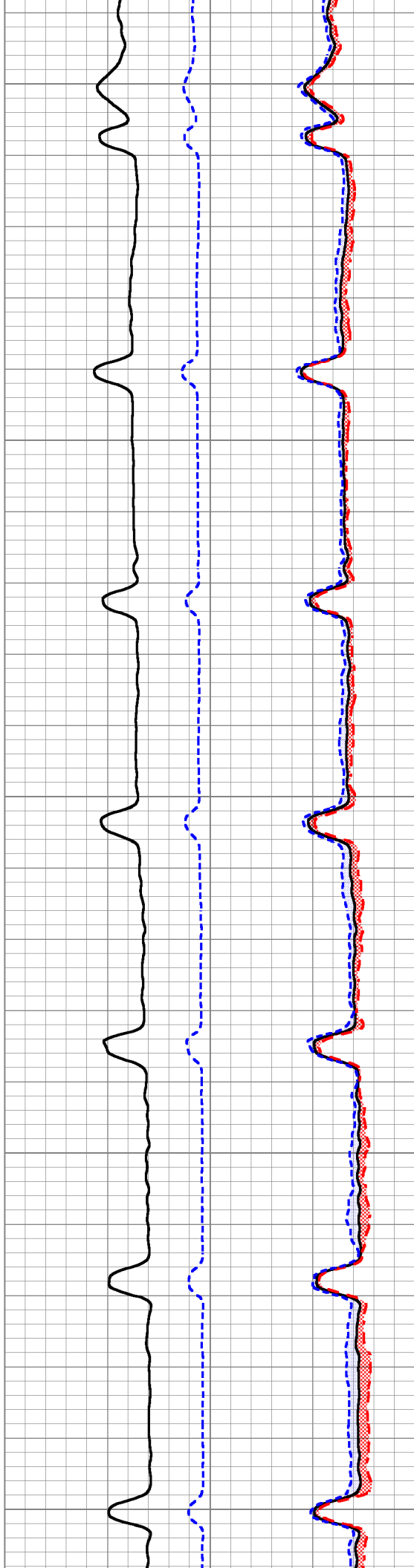
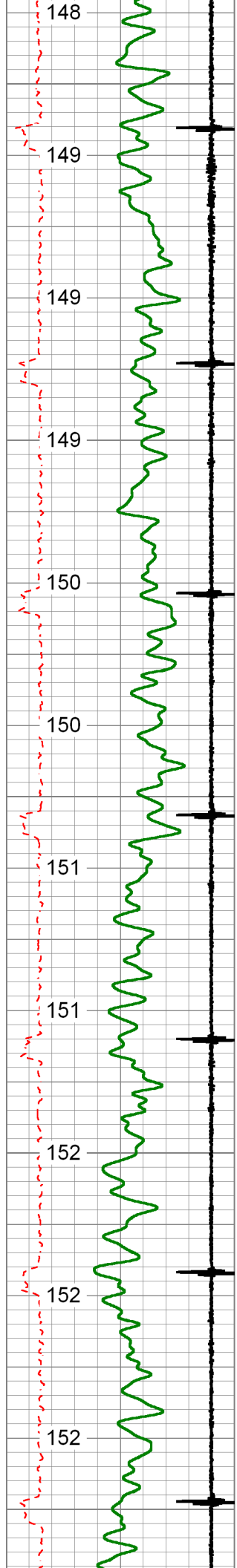


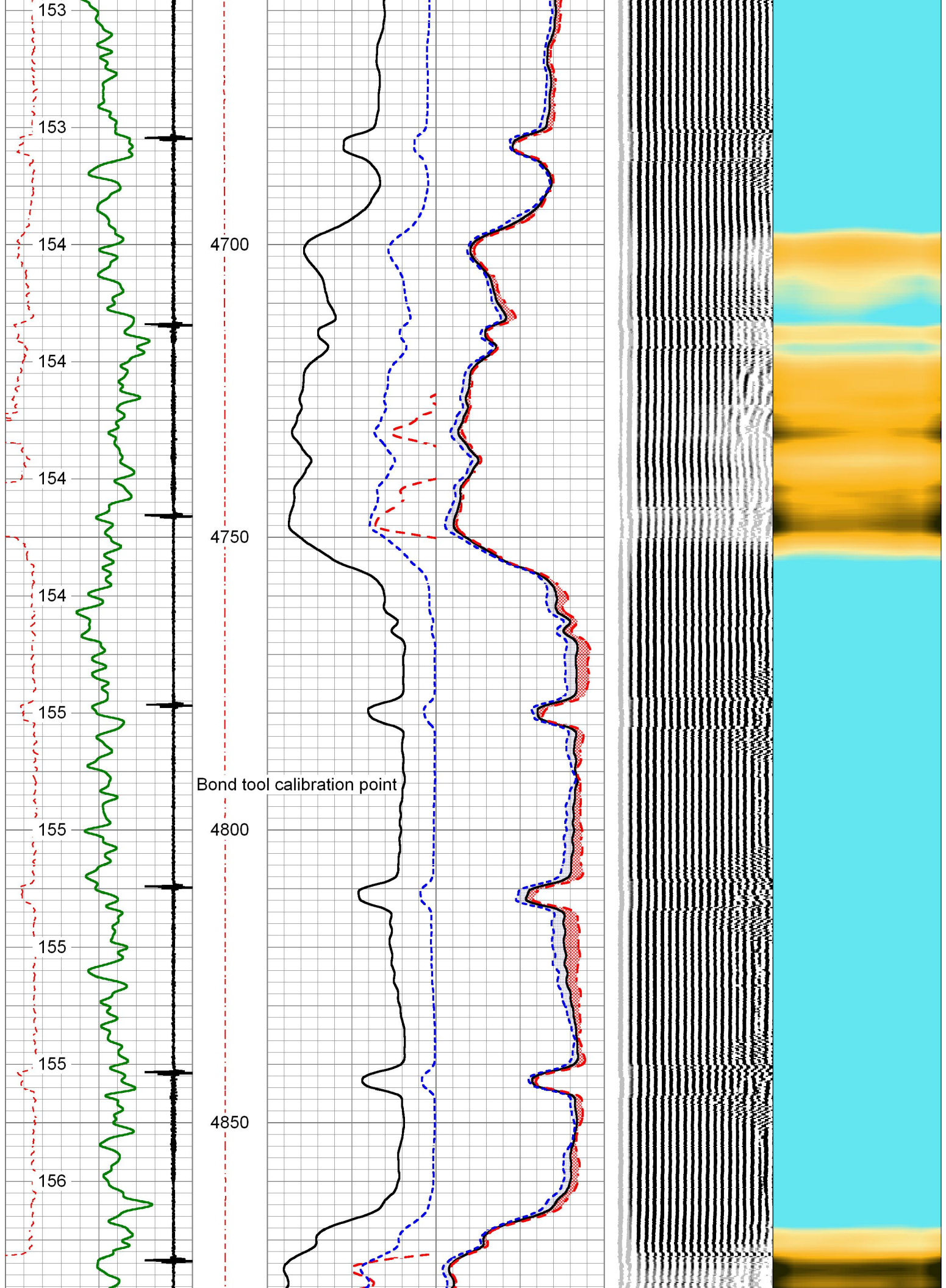


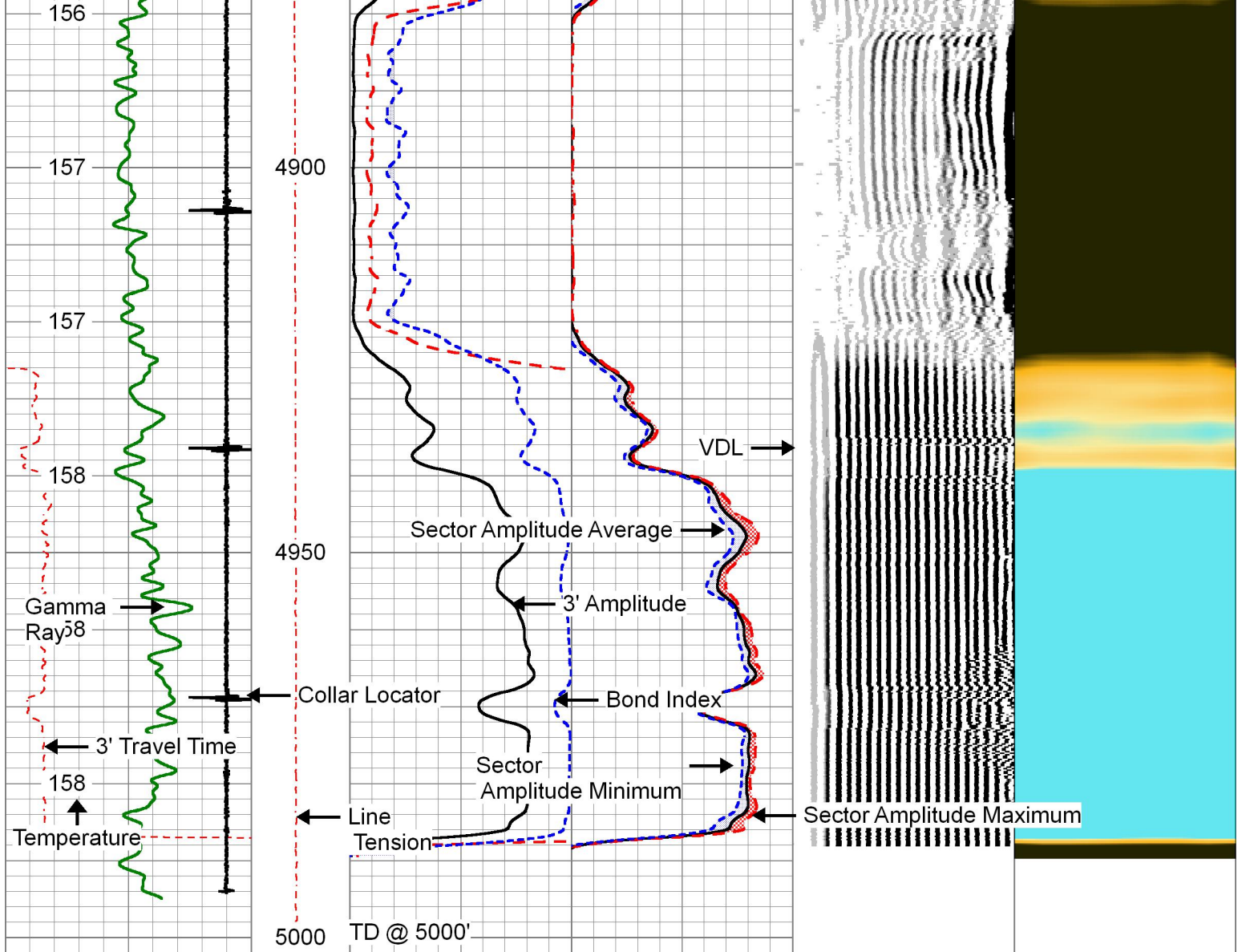












3' Travel Time	Line Tension	3' Amplitude (mV)	Sector Amplitude Average	200	VDL	1200	1	Sector Map	8
250 (usec)	0 (2000)	0 100	0 150				10		60
-9 Collar Locator		3' Amplified Amplitude X 5 (mV)	Sector Amplitude Maximum						
0 (GAPI)		0 20	0 150						
Gamma Ray		1 Bond Index	Sector Amplitude Minimum						
0 (GAPI)		0 0	0 150						
Temp (degF)									



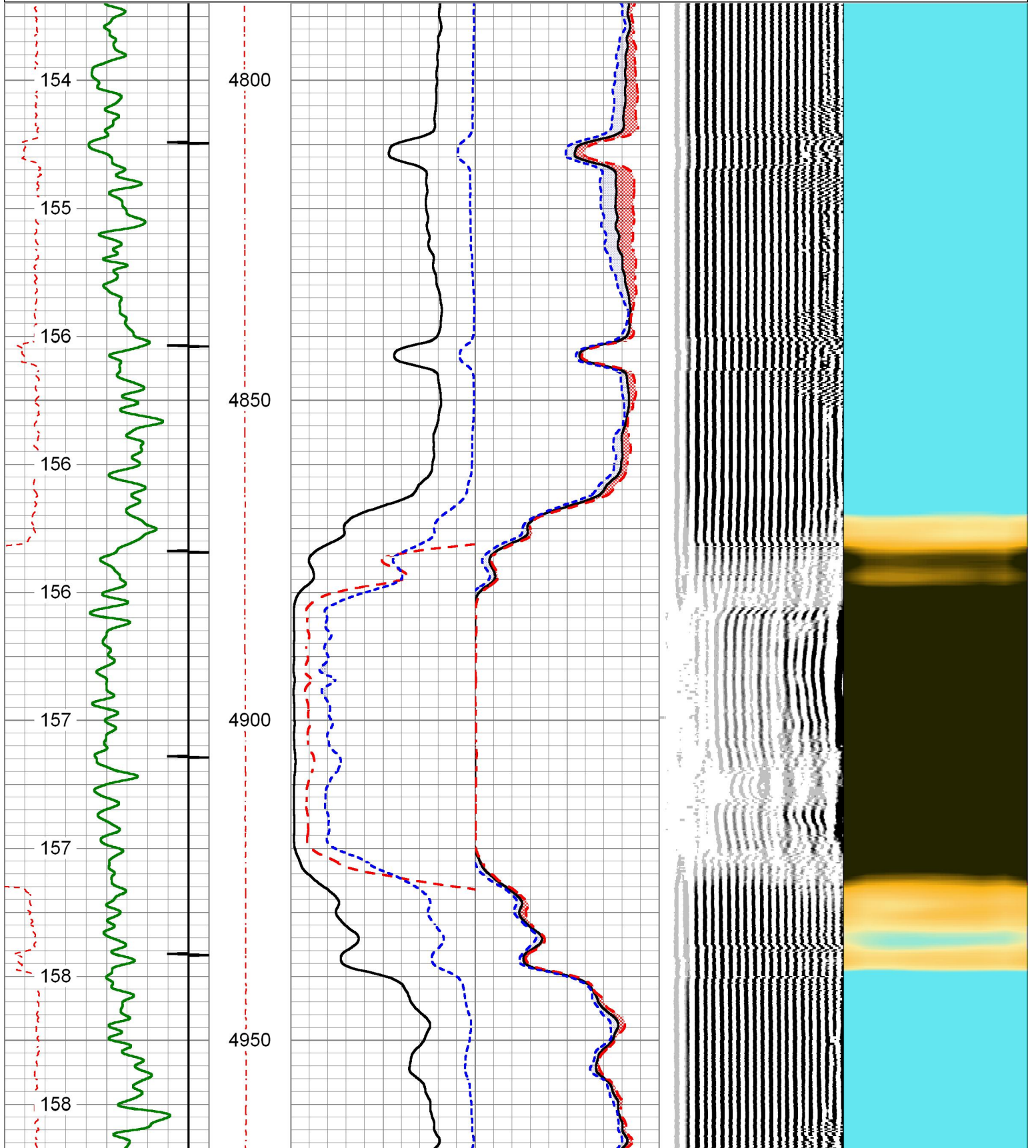
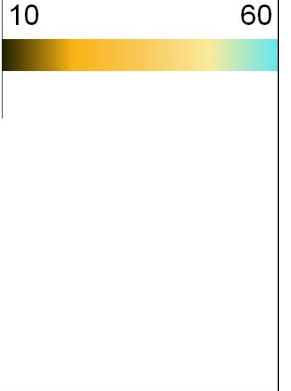
REPEAT SECTION

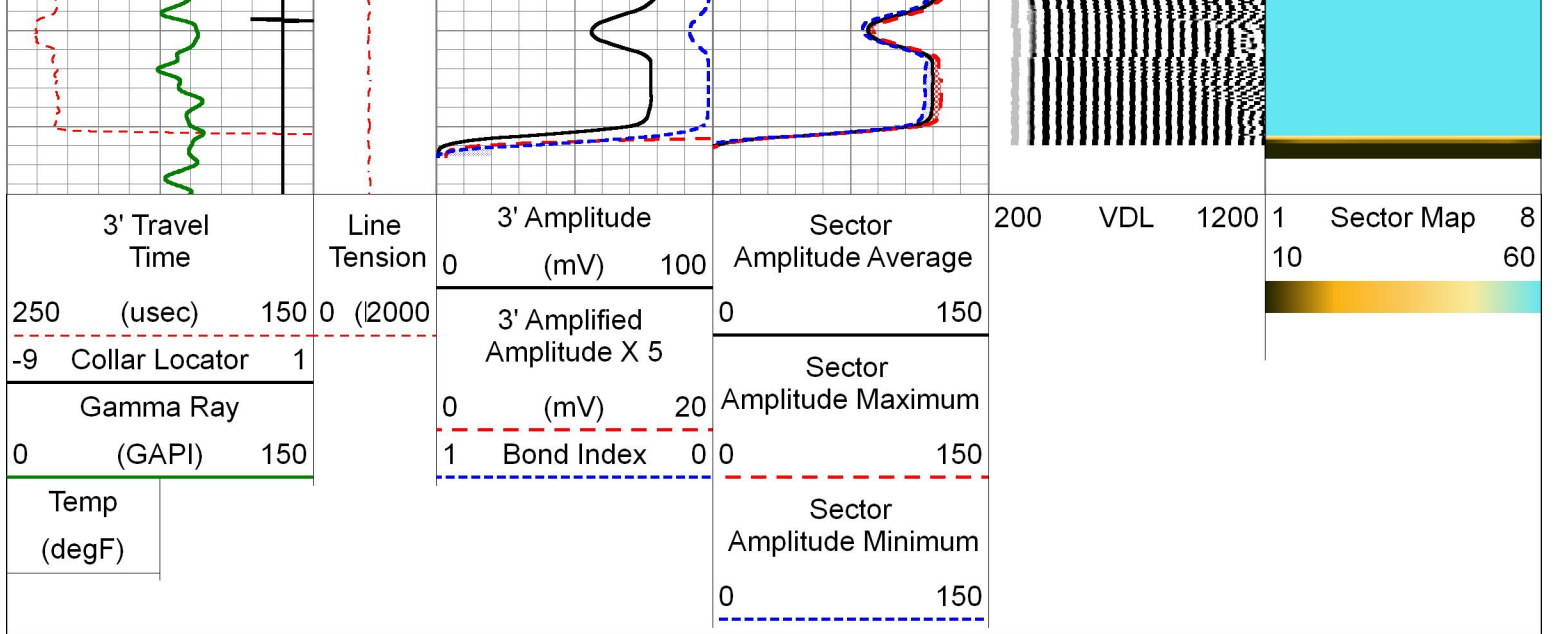
ZERO PSI APPLIED AT SURFACE

Database File uprr 42 pan am ad 1_rbl.db
 Dataset Pathname rbl/pass1.2
 Presentation Format pinr_scb1
 Dataset Creation Thu Jul 07 11:18:55 2016
 Charted by Depth in Feet scaled 1:240

3' Travel	Line	3' Amplitude	Sector	200	VDL	1200	1	Sector Map	8
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Time	250 (usec)	150	Tension	0 (2000)	0 (mV)	100	Amplitude Average	0	150
Collar Locator	-9	1	3' Amplified Amplitude X 5	0 (mV)	20	Sector Amplitude Maximum	0	150	
Gamma Ray (GAPI)	0	150		1 Bond Index	0	0	Sector Amplitude Minimum	0	150
Temp (degF)									





Calibration Report

Database File uprr 42 pan am ad 1_rbl.db
 Dataset Pathname rbl/pass1
 Dataset Creation Thu Jul 07 11:13:03 2016

Gamma Ray Calibration Report

Serial Number: 111211
 Tool Model: 275 Probe GR-CCL Dig
 Performed: Wed Jul 06 09:33:43 2016

Calibrator Value: 320.0 GAPI

Background Reading: 0.1 cps
 Calibrator Reading: 0.9 cps

Sensitivity: 0.6700 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 141167
 Tool Model: 275 Probe w Temp New Mod

Calibration Casing Diameter: 4.500 in
 Calibration Depth: 4791.258 ft

Master Calibration, performed Thu Jul 07 11:01:13 2016:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	1.074	0.700	81.196	62.000	0.700
CAL	0.011	1.747				
5'	0.014	1.016	0.700	81.196	80.326	-0.388
SUM						
S1	0.088	1.057	0.000	100.000	103.191	-9.068
S2	0.022	1.069	0.000	100.000	95.497	-2.116
S3	0.014	1.053	0.000	100.000	96.313	-1.380
S4	0.020	1.118	0.000	100.000	91.065	-1.816
S5	0.020	1.176	0.000	100.000	86.492	-1.697
S6	0.022	1.161	0.000	100.000	87.745	-1.887
S7	0.023	1.130	0.000	100.000	90.286	-2.037

S8

0.021

1.088

0.000

100.000

93.759

-1.990

Temperature Calibration Report

Serial Number: 141167
Tool Model: 275 Probe w Temp New Mod
Performed: Tue Jul 05 07:00:59 2016

	Reference	Reading
Low Reference:	35.00 degF	0.09 degF
High Reference:	212.00 degF	1.22 degF

Gain: 0.78
Offset: 10.00
Delta Spacing 1



PIONEER
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Well	UPRR 42 PAN AM AD 1
Field	WATTENBERG
County	WELD
State	CO