

<div><div>FMC Technologies</div><div>Radial Cement Bond Gamma Ray Casing Collar Log</div></div>									
<div><div>API #: 05-103-05685 Company: Chevron USA Inc. Well: Union Pacific #10-21 Field: Rangely Weber Sand Unit County: Rio Blanco State: Colorado</div><div><div>COMPANY: Chevron USA Inc. WELL: Union Pacific #10-21 FIELD: Rangely Weber Sand Unit COUNTY: Rio Blanco STATE: Colorado</div><div><div>Location: API#:05-103-05685 SHL: 716 FSL &amp; 2,089 FEL BHL: Latitude: 40.123185° Longitude: -108.846084° Section: 21 Township: 2N Range: 102W Permanent Datum: GL Elevation: 5,344 ft Drill Measured From: KB Log Measured From: KB = 13' above Permanent Datum</div><div>Elevations KB: 5,357' DF: --- GL: 5,344' Other Services PDN</div></div></div></div>									
Date	November 19, 2014								
Run Number	One								
Depth Driller	6,505 ft								
Depth Logger	6,452 ft								
Bottom Logged Interval	6,452 ft								
Top Logged Interval	5,850 ft								
Fluid Type	NonBarite								
Fluid Top	Surface								
Max. Rec. Temperature	---								
Estimated Cement Top	---								
Time on Bottom	09:15								
Unit Number	HD-0264								
Location	Grand Junction, CO								
Recorded By	A Ellsworth								
Witnessed By	A Halcomb								
Borehole Record				Tubing Record					
Run Number	Bit Size	Top	Bottom	Size	Weight	Top	Bottom		
Conductor	20.000 Inch	Surface	43 ft						
Surface	13.750 Inch	Surface	1,019 ft						
Casing	8.250 Inch	1,019 ft	6,010 ft						
Liner	6.125 Inch	6,010 ft	6,490 ft						
Casing Record									
String	Size		Weight		Top		Bottom		
Casing	5.500 Inch		17.00 lbs/ft		Surface		5,718 ft		
Liner	5.000 inch		18.00 lbs/ft		5,718 ft		6,490 ft		

API #: 05-103-05685	Chevron USA Inc.	Union Pacific #10-21
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EQUIPMENT DATA				
Run	Trip	Instrument	Series No.	Serial No.
		PDN	028	1471A
		Knuckle Joint	None	0814
		Inline Centralizer	None	0595t
		RSBT	010	1333A
		Inline Centralizer	None	0595b

REMARKS
Log ran as per customer's request
Log correlated to Top of Liner (CCL) at 5,718'

Thank you for choosing FMC Technologies

In making interpretations of logs, Contractor's employees will give the customer the benefit of their best judgement, but since all interpretations are opinions, based on inferences from electrical or other measurements, Contractor cannot, and does not, guarantee the accuracy or the correctness of any interpretation.

Telemetry			
Identifier	.0929A		
Asset Number	.040	CCL	42.56 ft
Length	.4.810 ft		41.73 ft
Diameter	.1.7 inch		
Weight	.17.6 lbs		
Measure Point	0.741 ft : Gamma		
Measure Point	3.976 ft : CCL	Gamma	38.49 ft

PDN			
Identifier	.1471A		
Asset Number	.028		
Length	.19.337 ft		
Diameter	.1.7 inch		
Weight	.85.8 lbs		
Measure Point	7.575 ft : ShortSpace		
Measure Point	8.051 ft : LongSpace	LongSpace	26.46 ft
		ShortSpace	25.99 ft

Knuckle Joint	
Identifier	.0814
Asset Number	.None
Length	.2.854 ft
Diameter	.1.7 inch
Weight	.16.5 lbs

Inline Centralizer	
Identifier	.0595t
Asset Number	.None
Length	.2.887 ft
Diameter	.2.7 inch
Weight	.11.0 lbs

RSBT

Identifier :1333A  
Asset Number :010  
Length :9.783 ft  
Diameter :2.7 inch  
Weight :149.9 lbs  
Measure Point :2.730 ft : CBL  
Measure Point :4.229 ft : Far  
Measure Point :5.230 ft : Near  
Measure Point :5.728 ft : Radial

Radial : 8.62 ft  
Near : 8.12 ft  
  
Far : 7.12 ft  
  
CBL : 5.62 ft

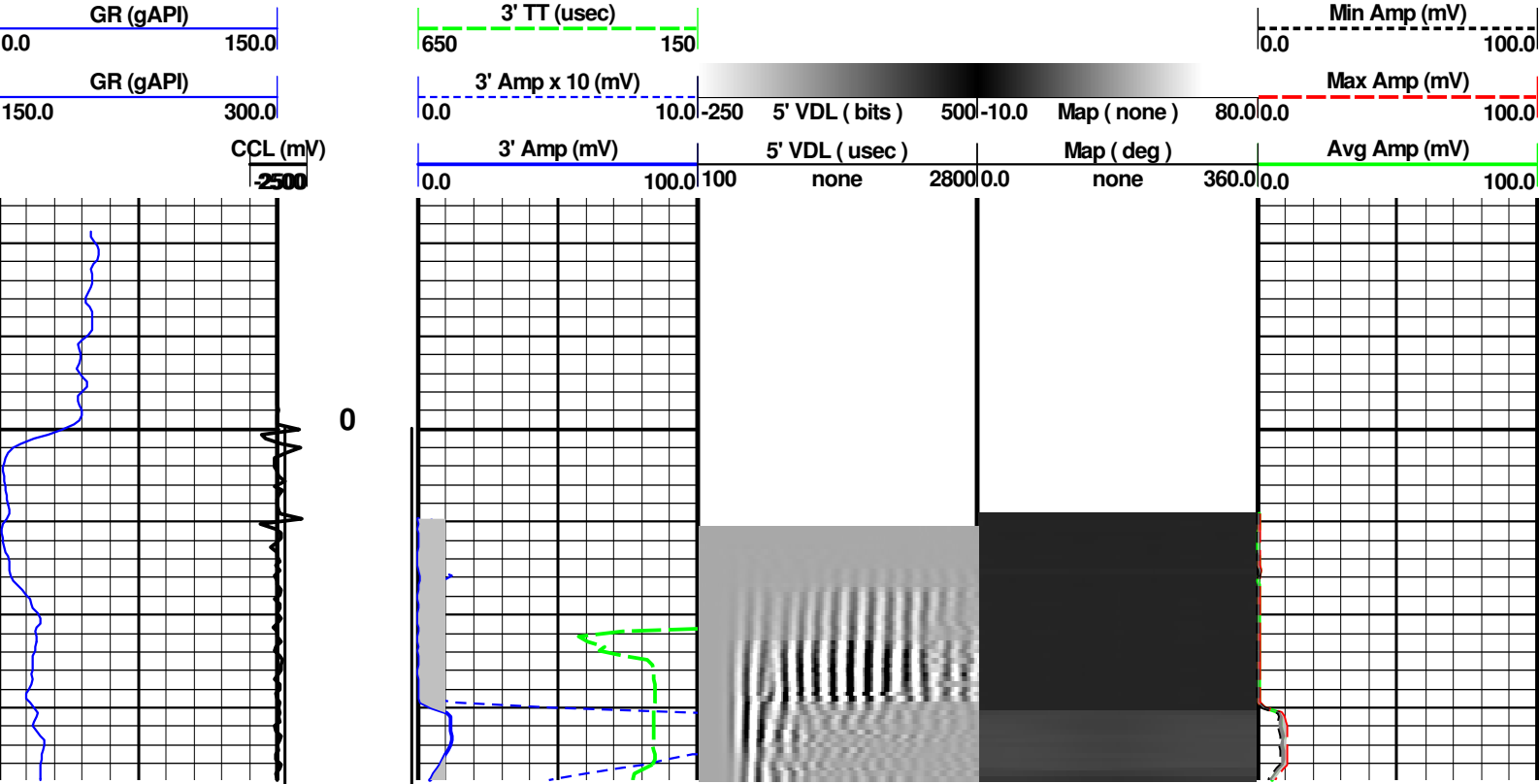
Inline Centralizer

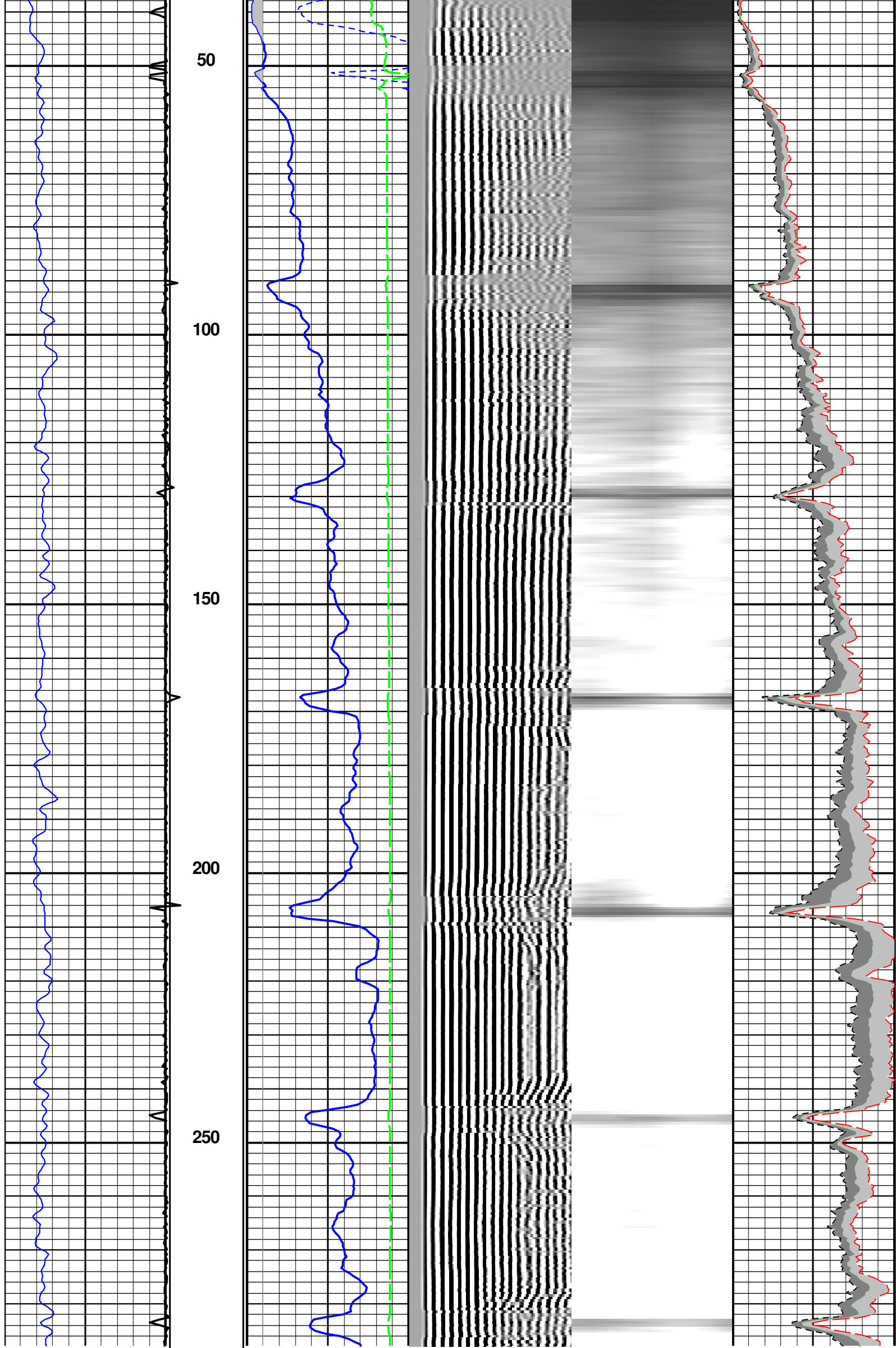
Identifier :0595b  
Asset Number :None  
Length :2.887 ft  
Diameter :2.7 inch  
Weight :11.0 lbs

Total Length : 42.56 ft  
Total Weight : 291.89 lbs  
Max Diameter : 2.7 inch

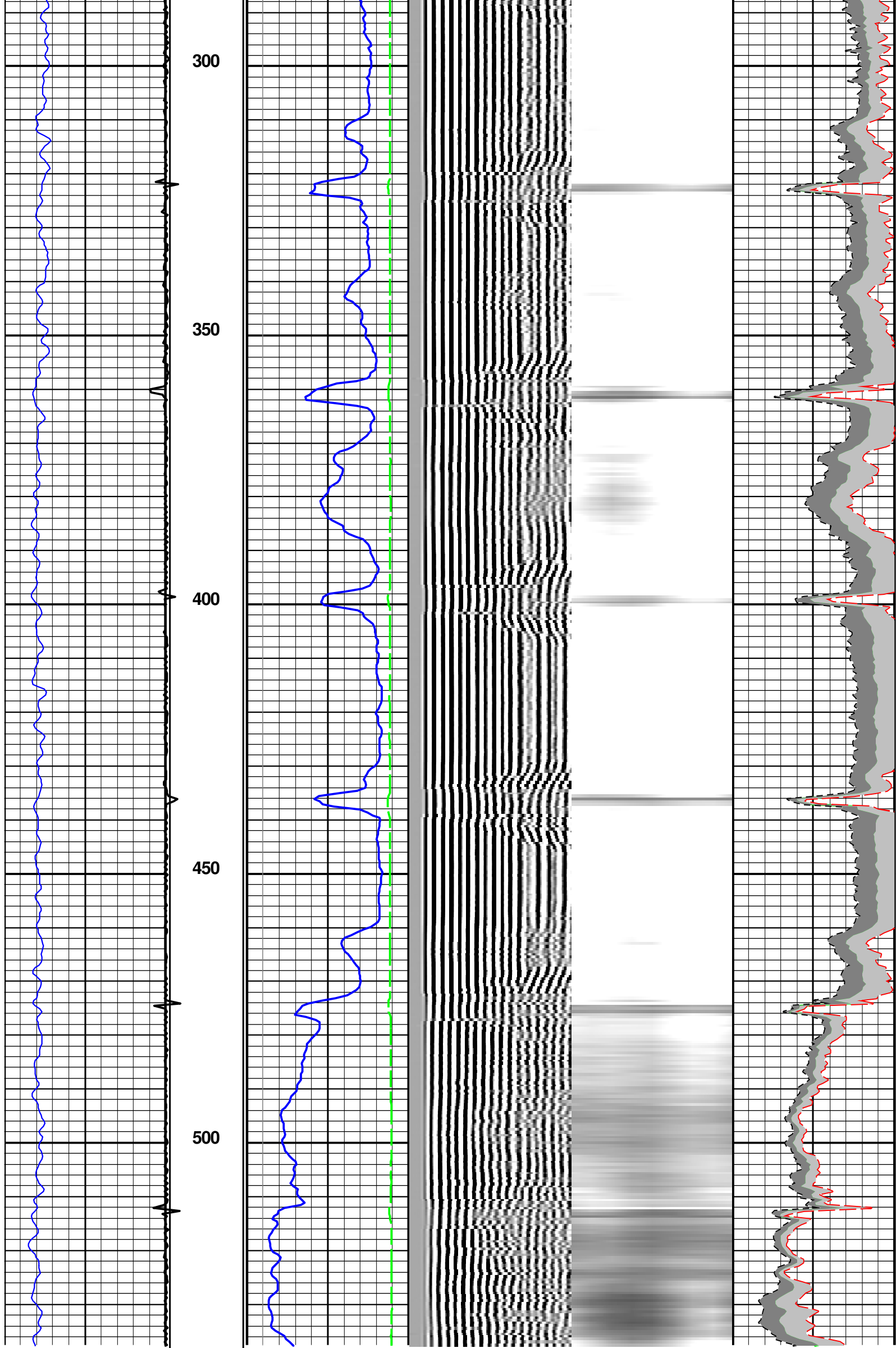
Main Pass  
Logged under -0- PSI surface induced pressure

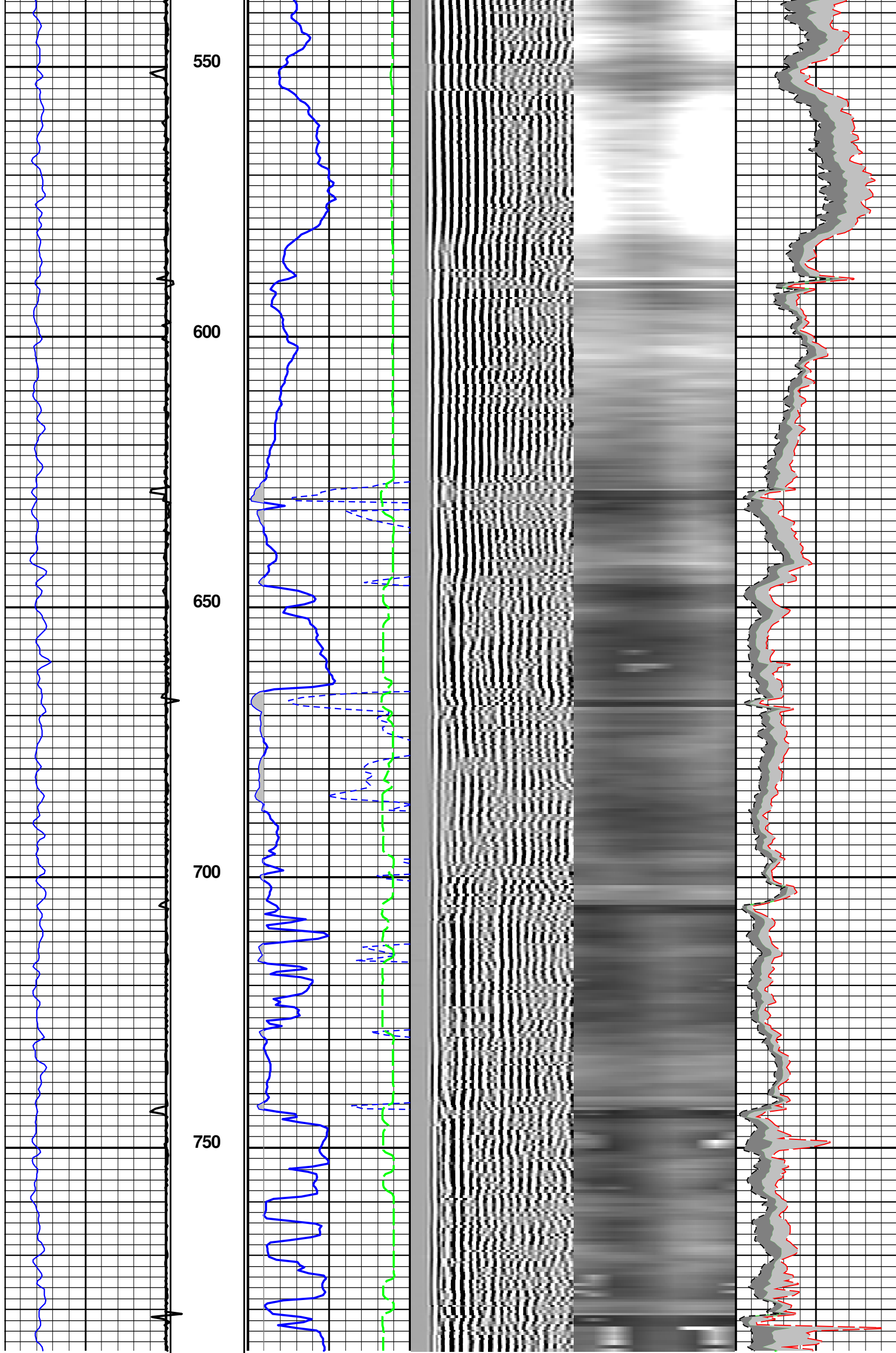
Company	: Chevron USA Inc.	Date	: 19.11.2014
Well	: Union Pacific #10-21	Time	: 13:02:26
Scale	: 1 : 240	Remarks	:
Depth in	: Feet		
Software	: WinAPIot Ver. 5, 80, 0, 0	File Name	: Main CBL DC

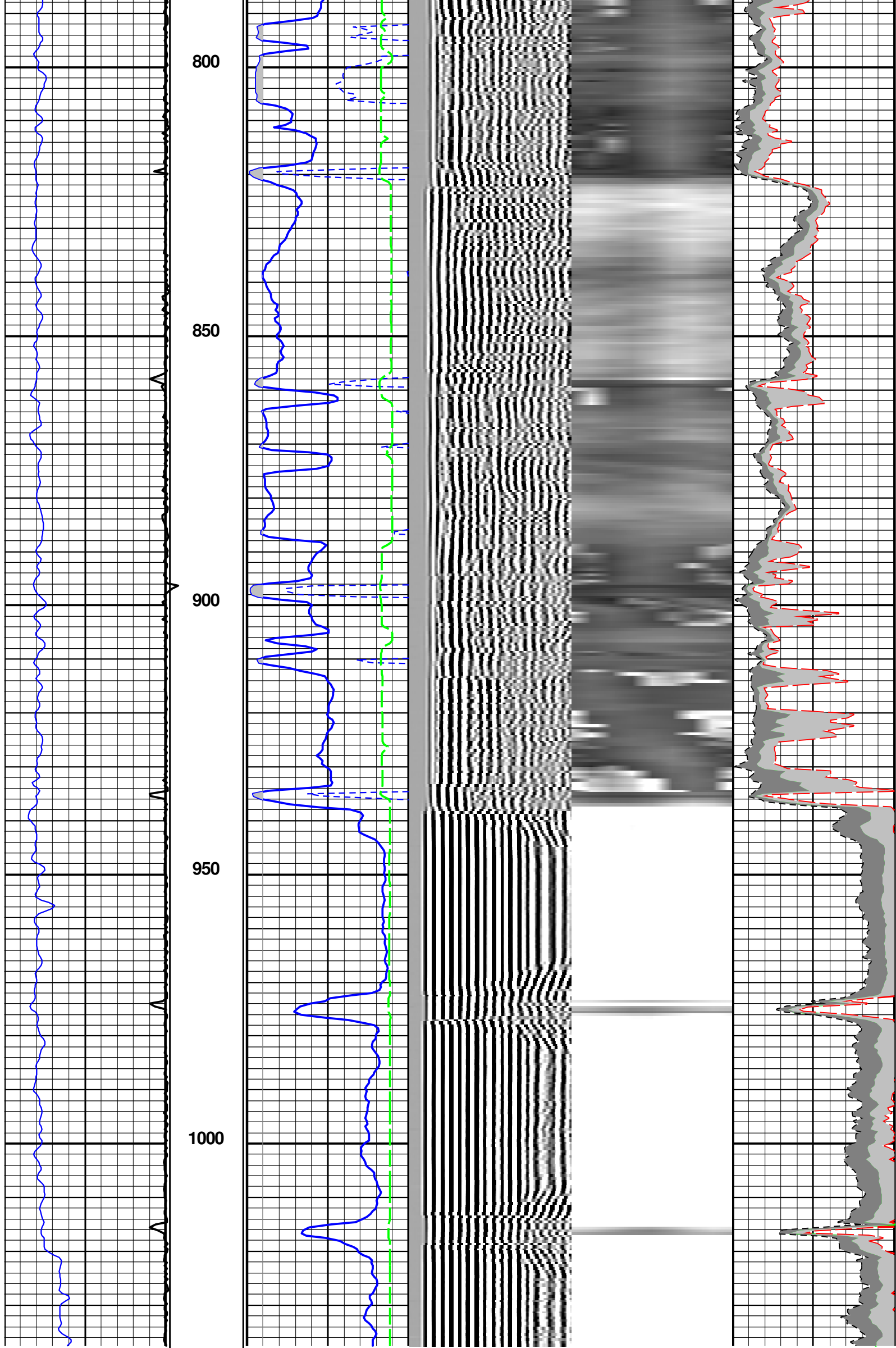


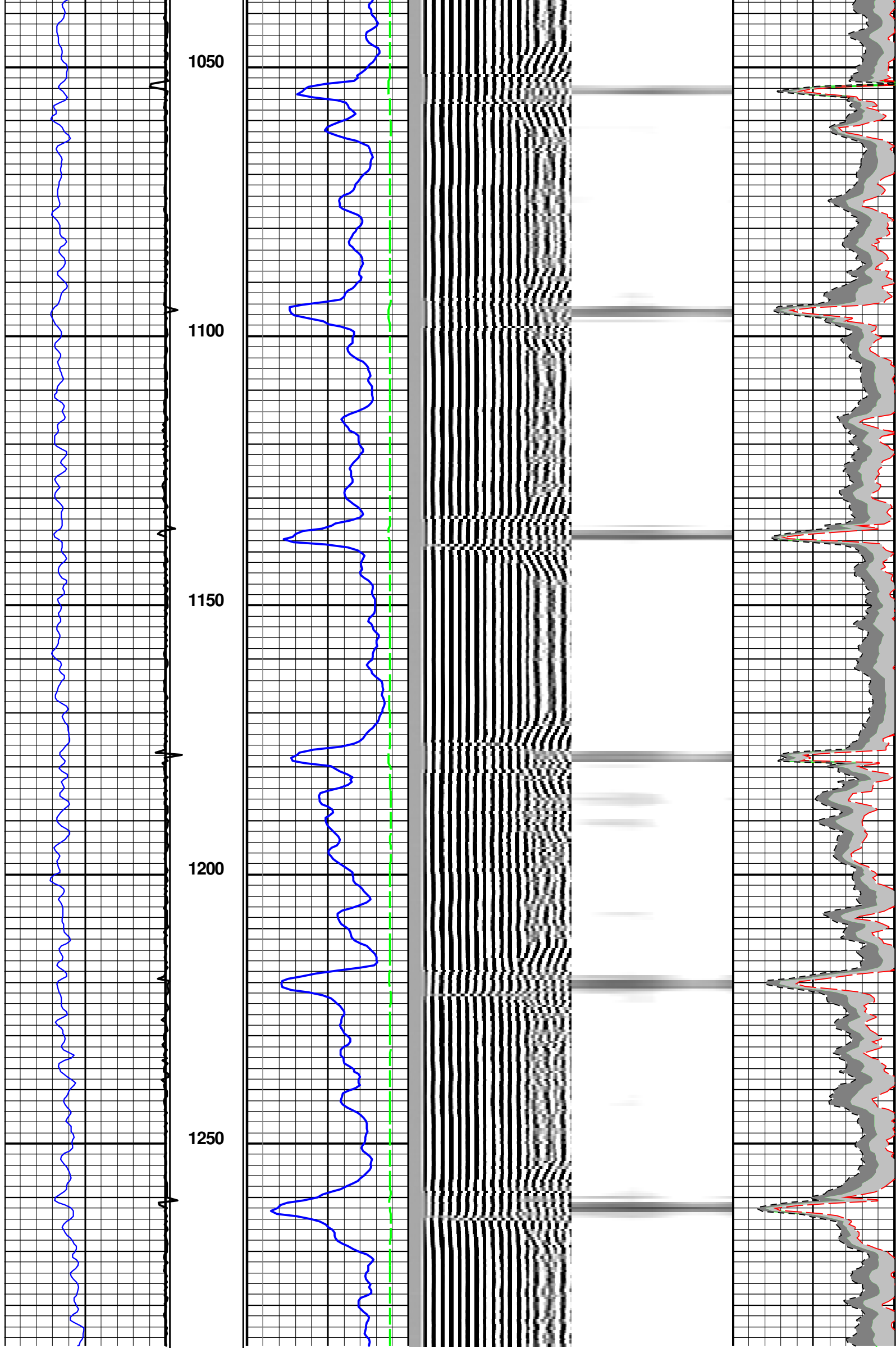


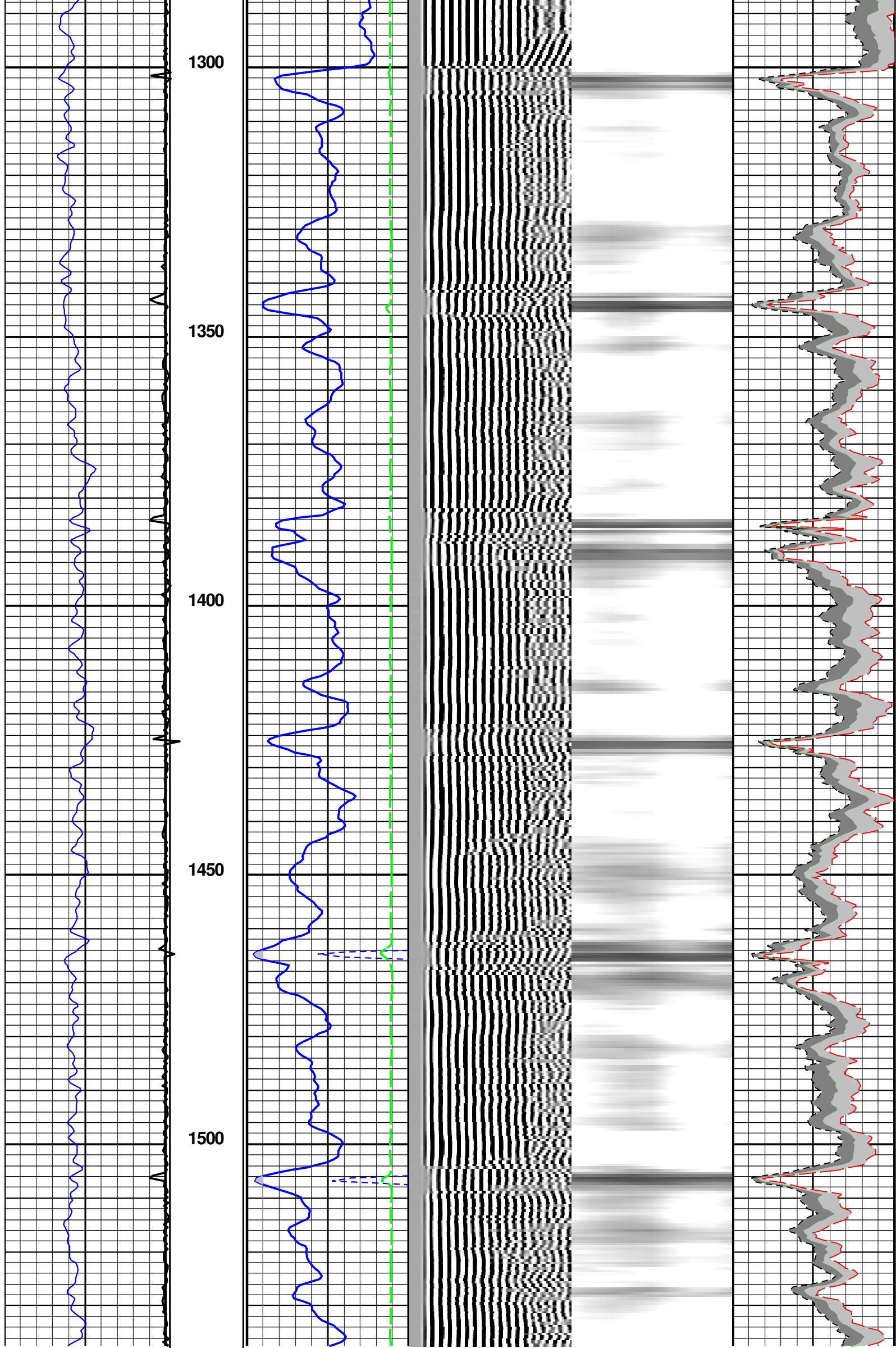


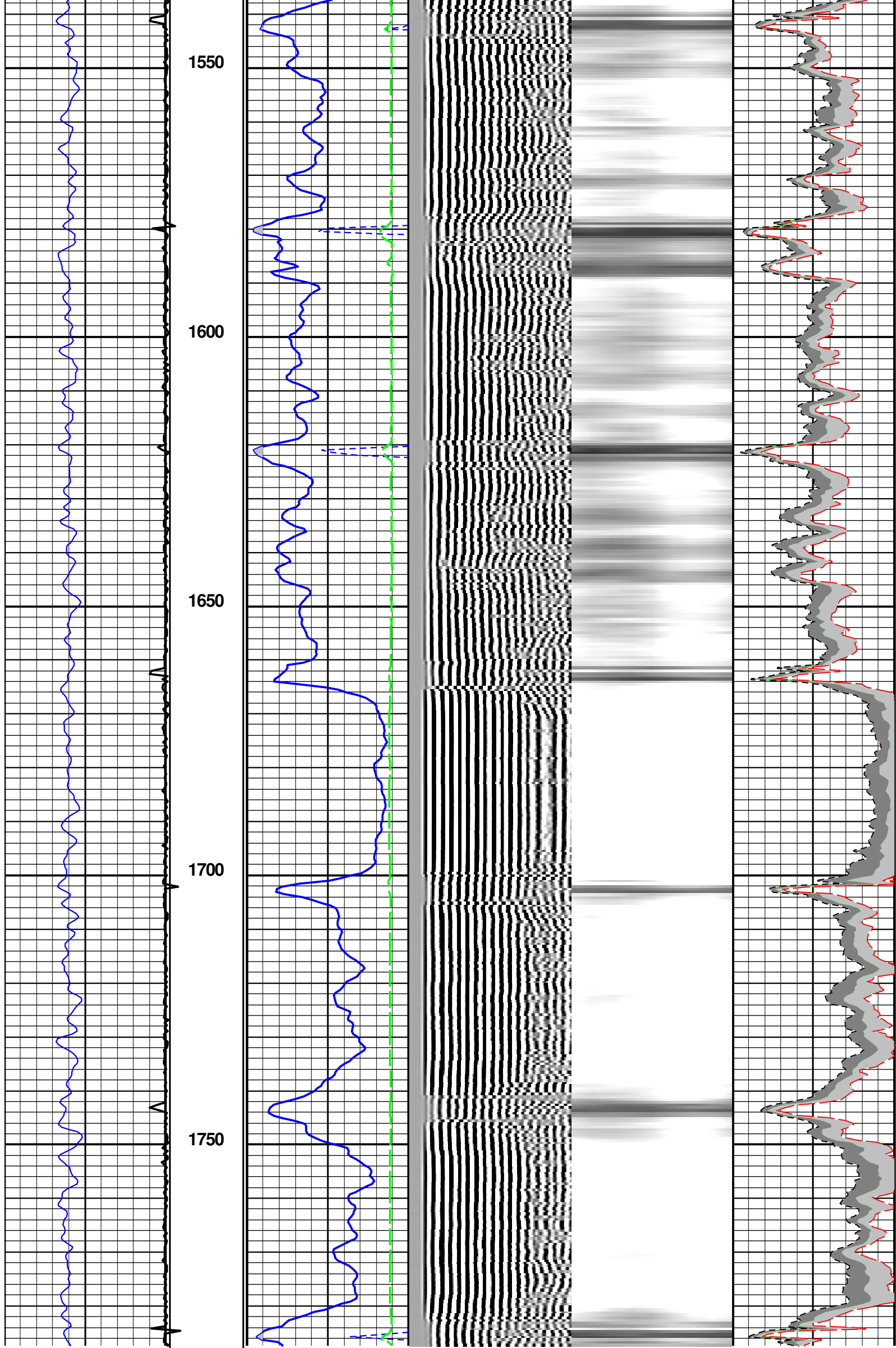


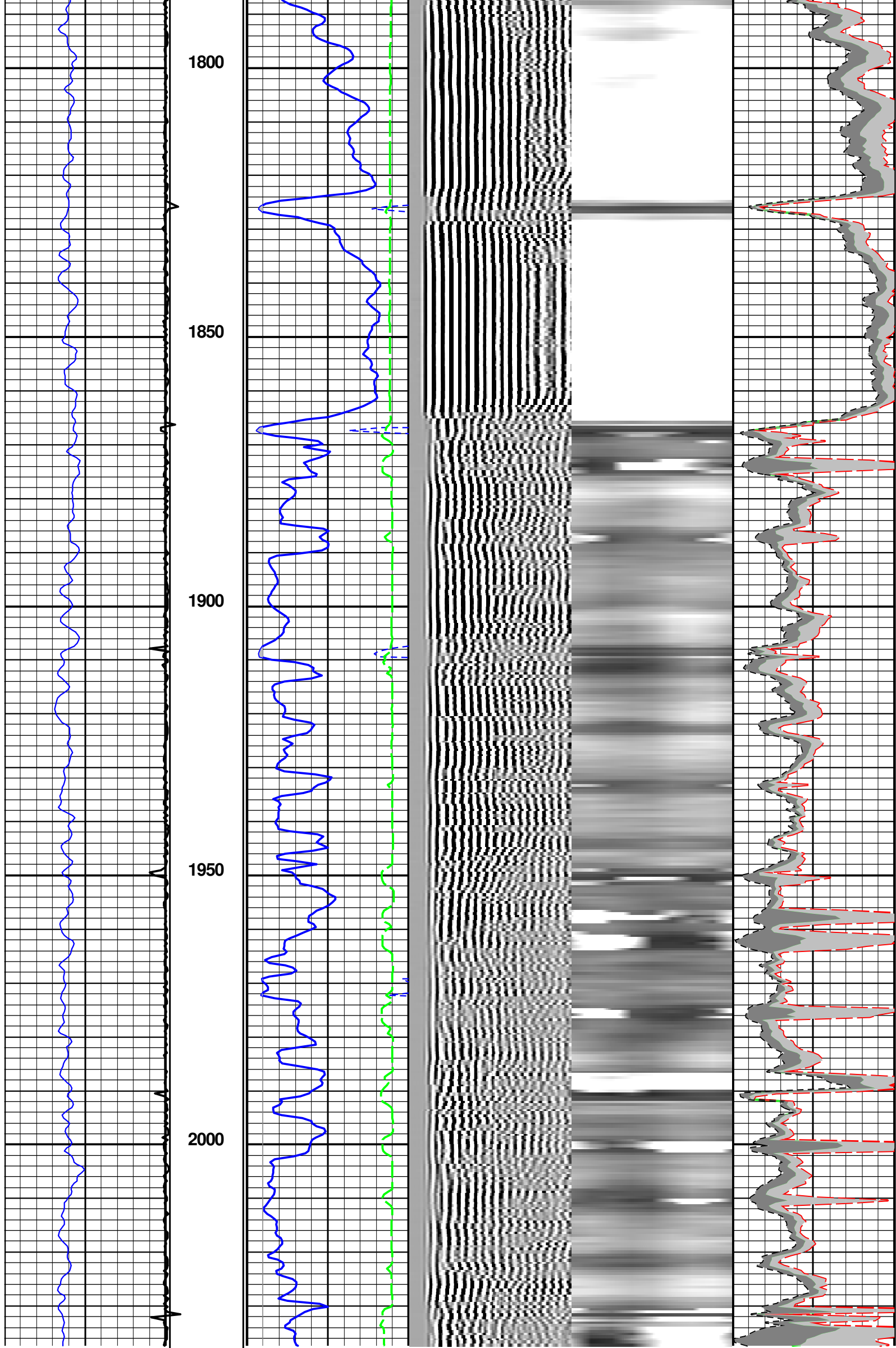




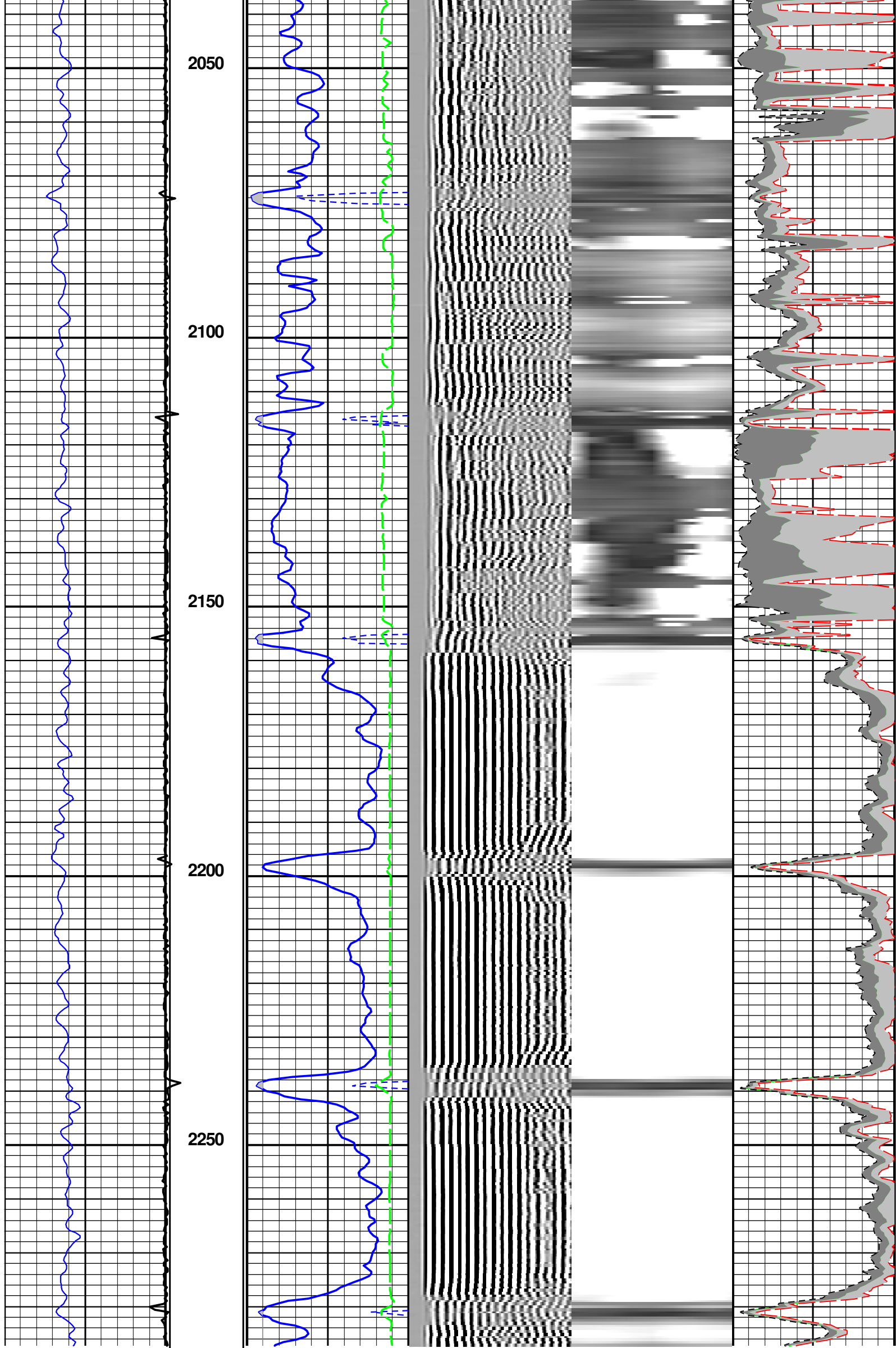




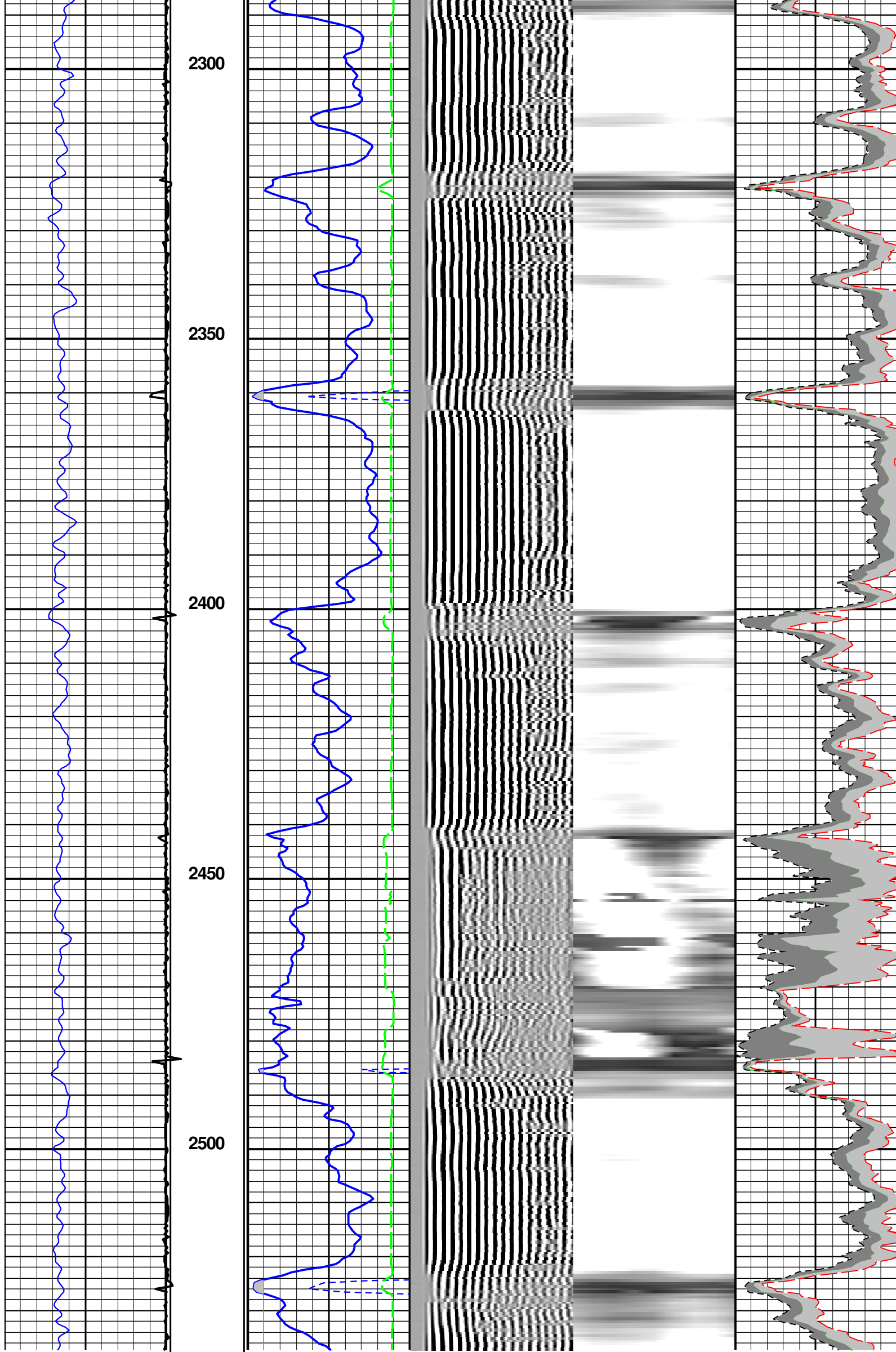


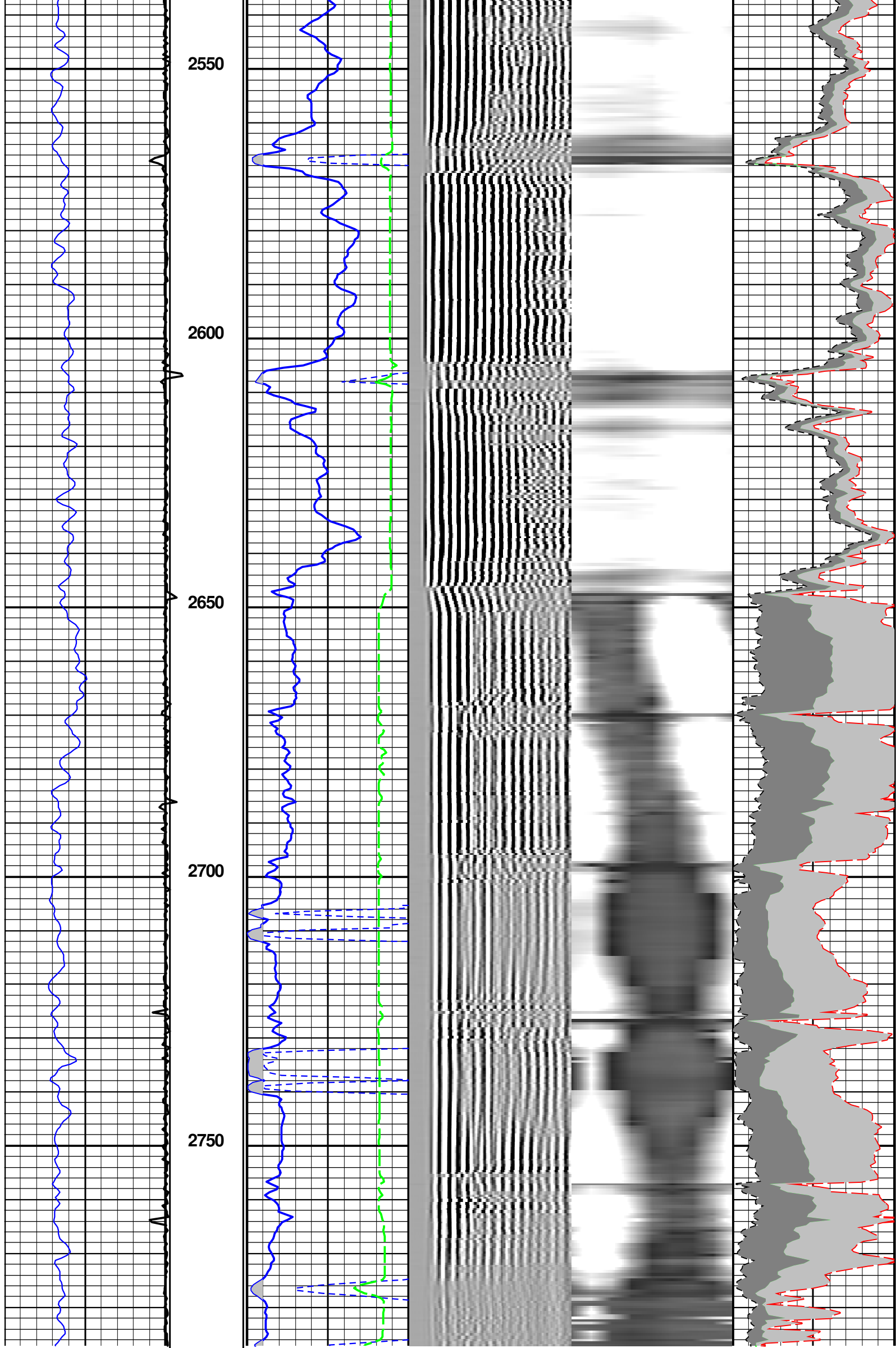


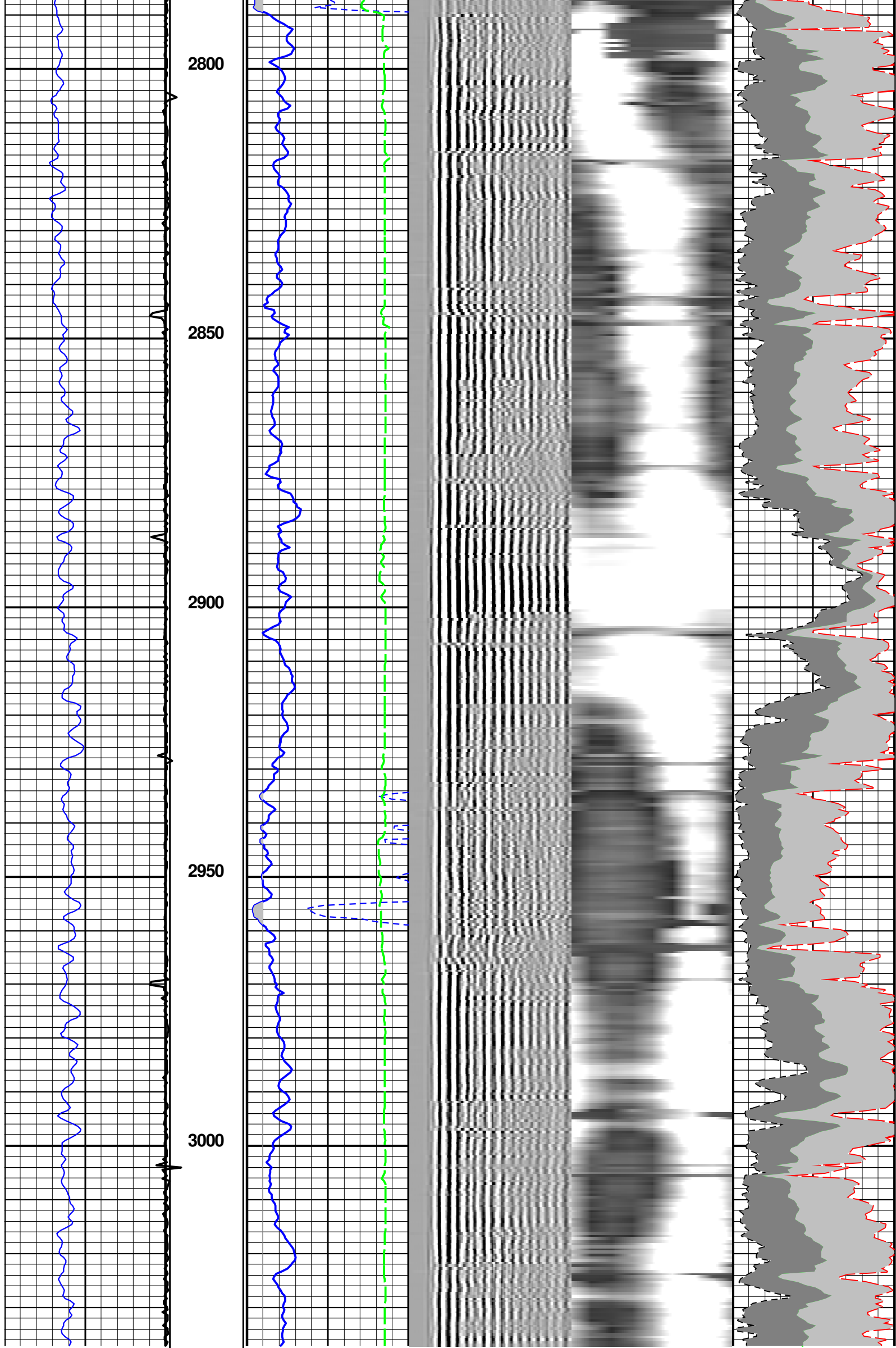


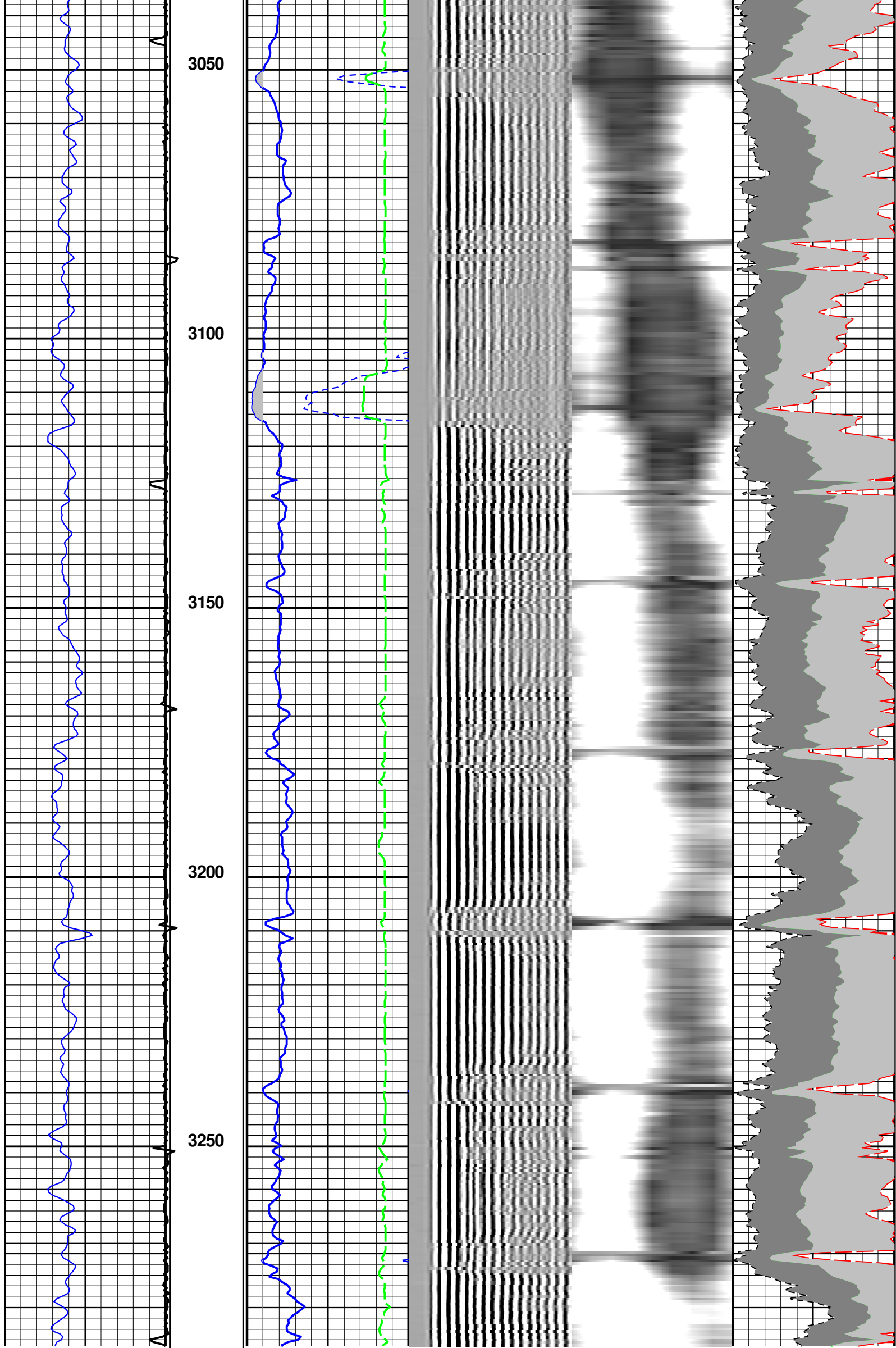


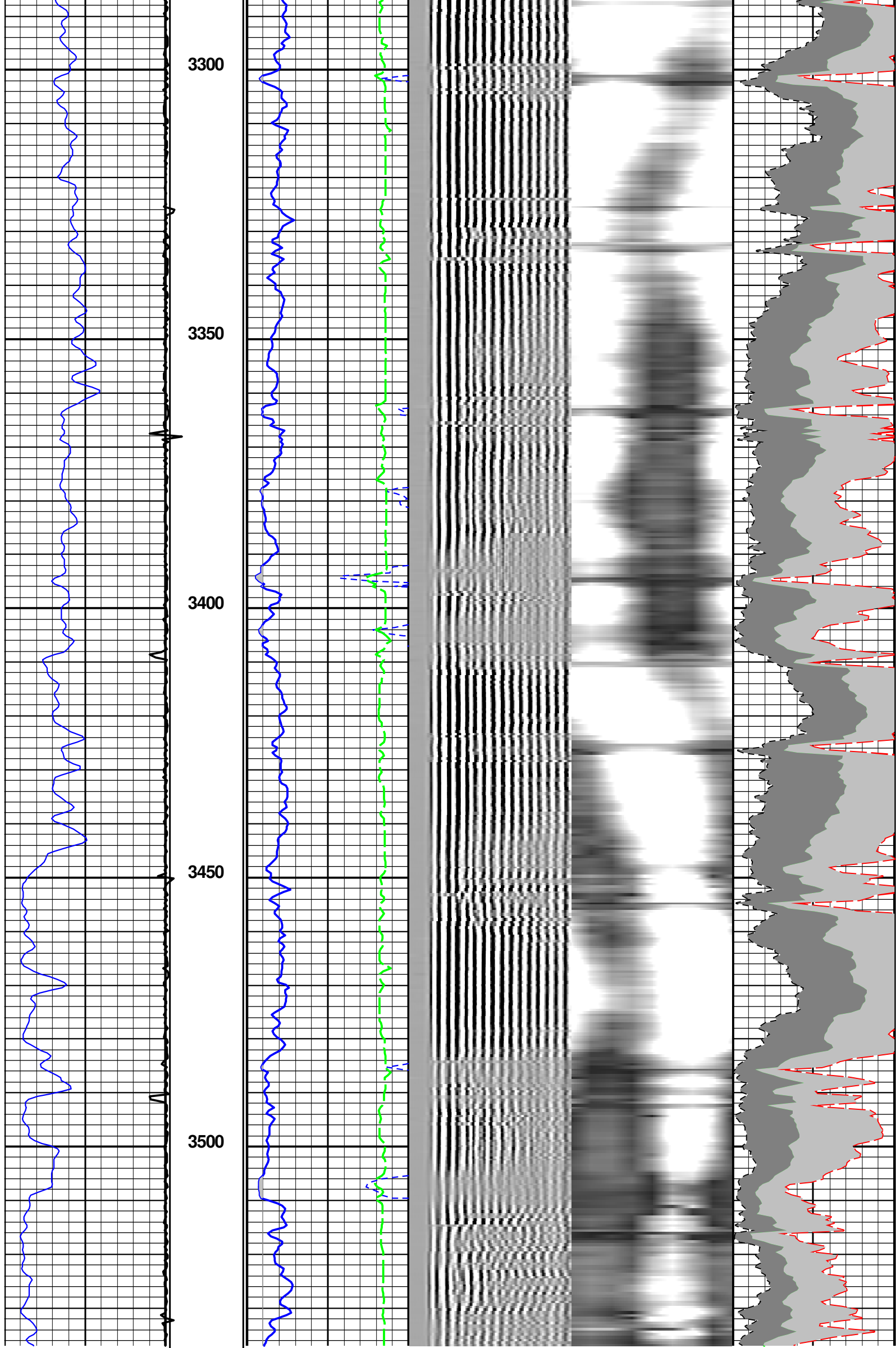


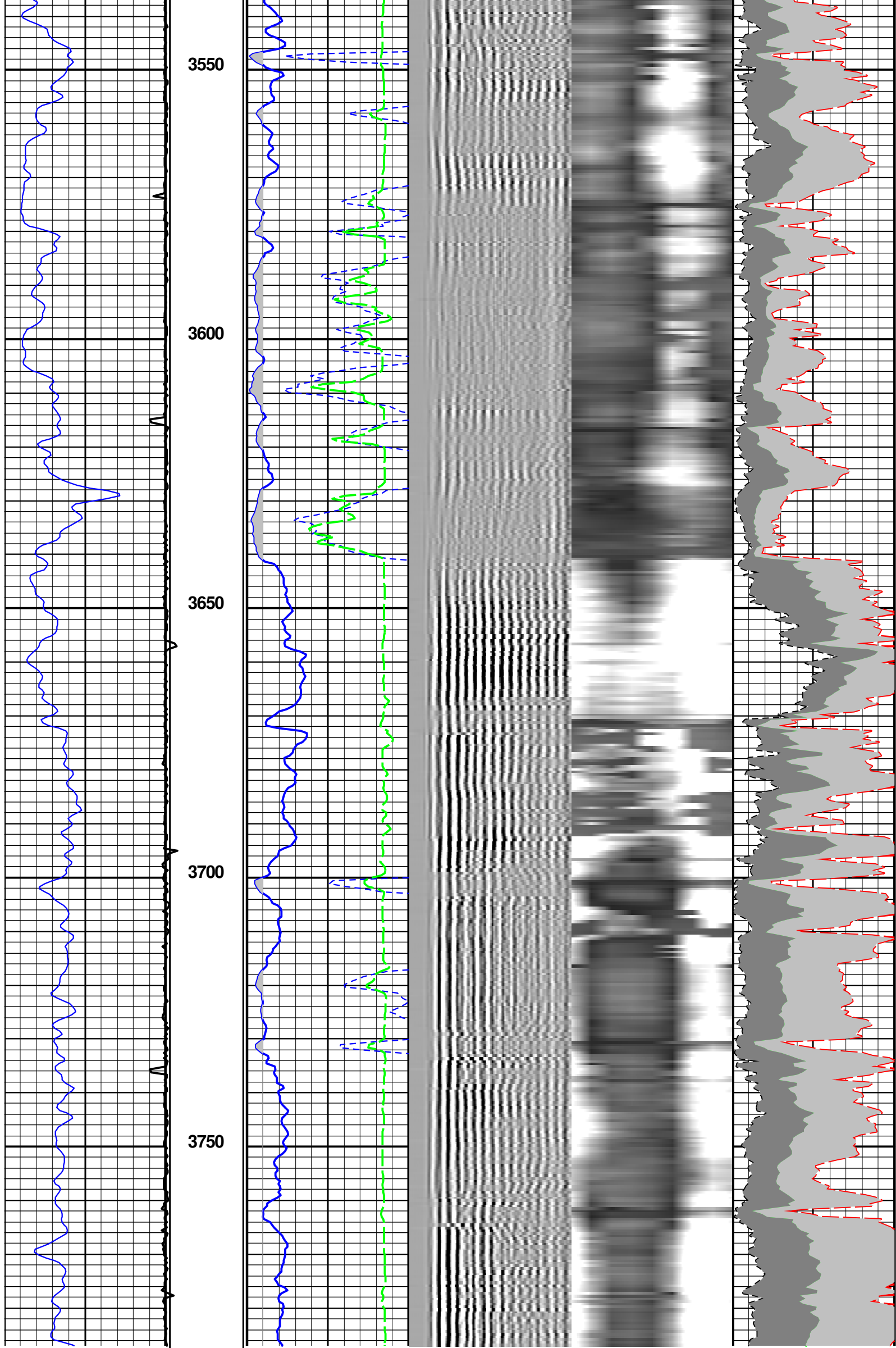




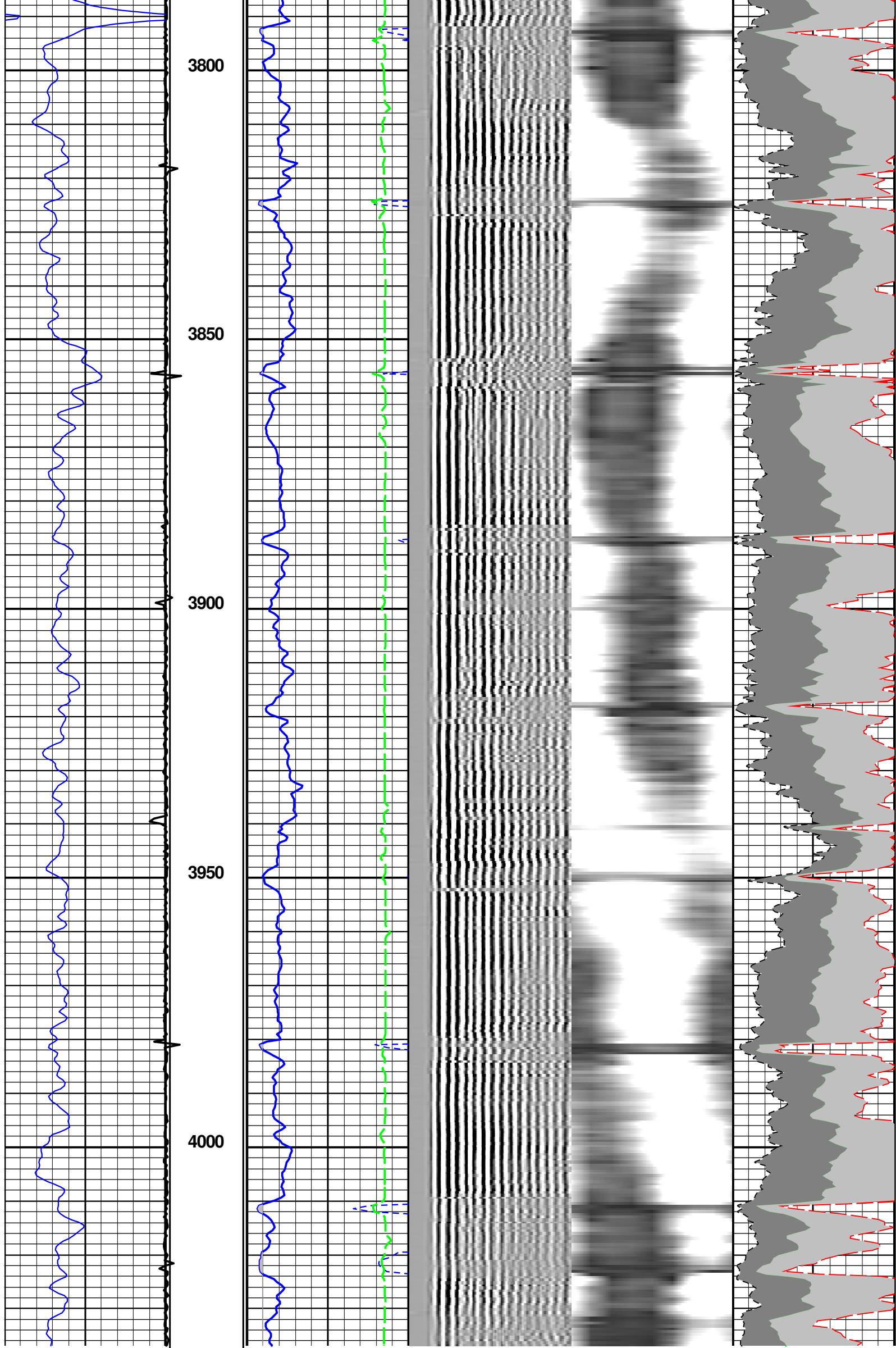


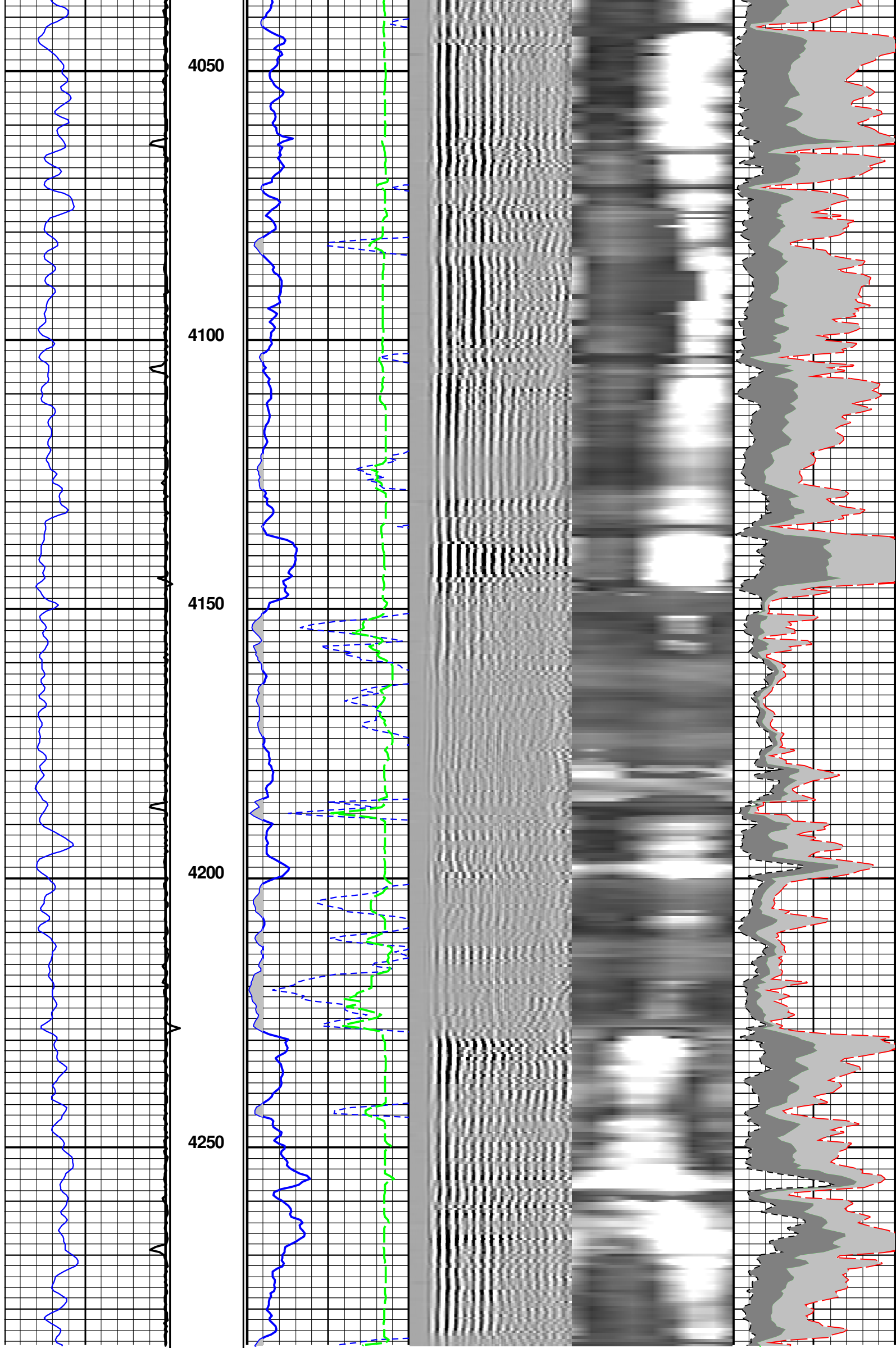




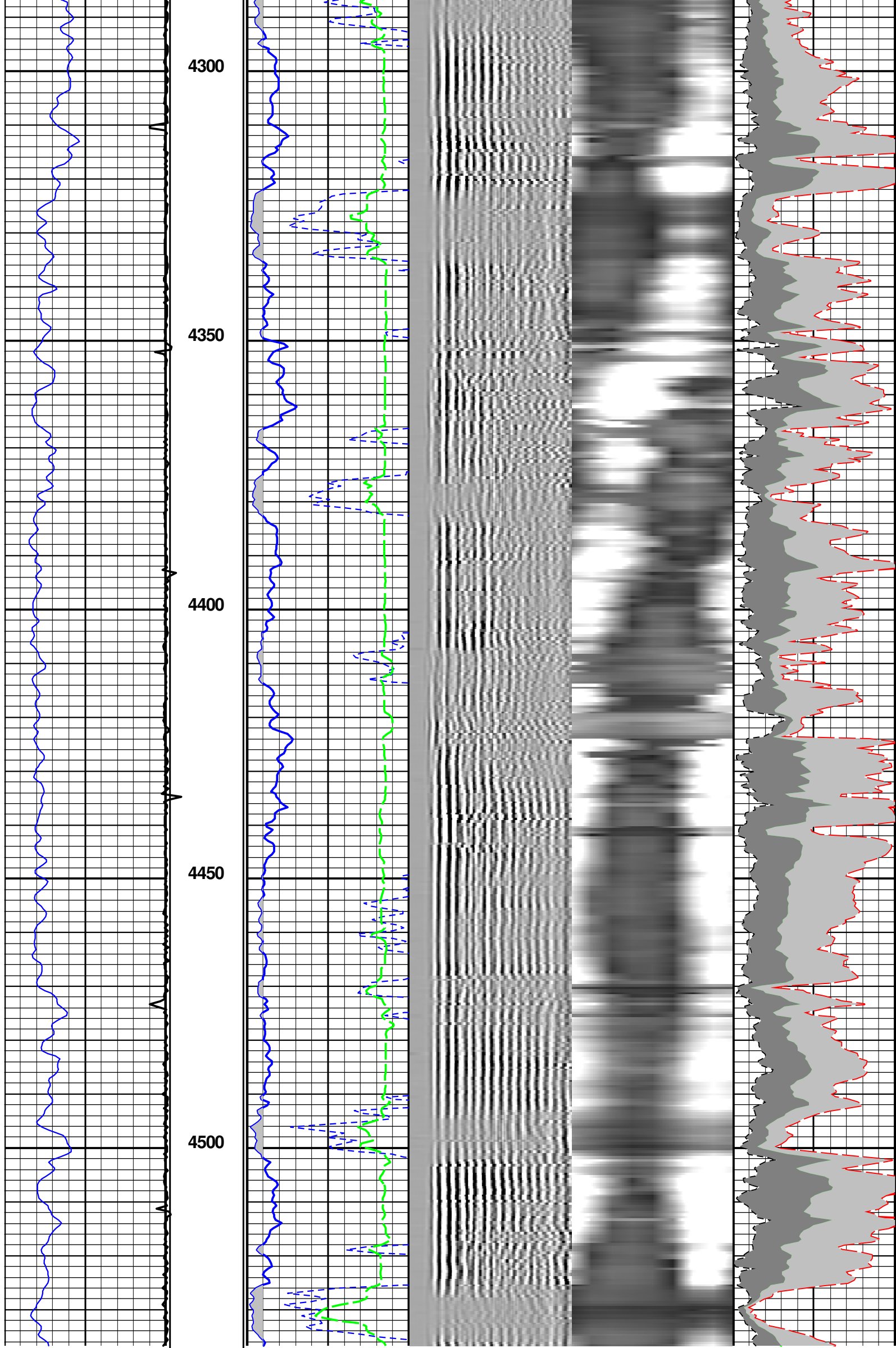


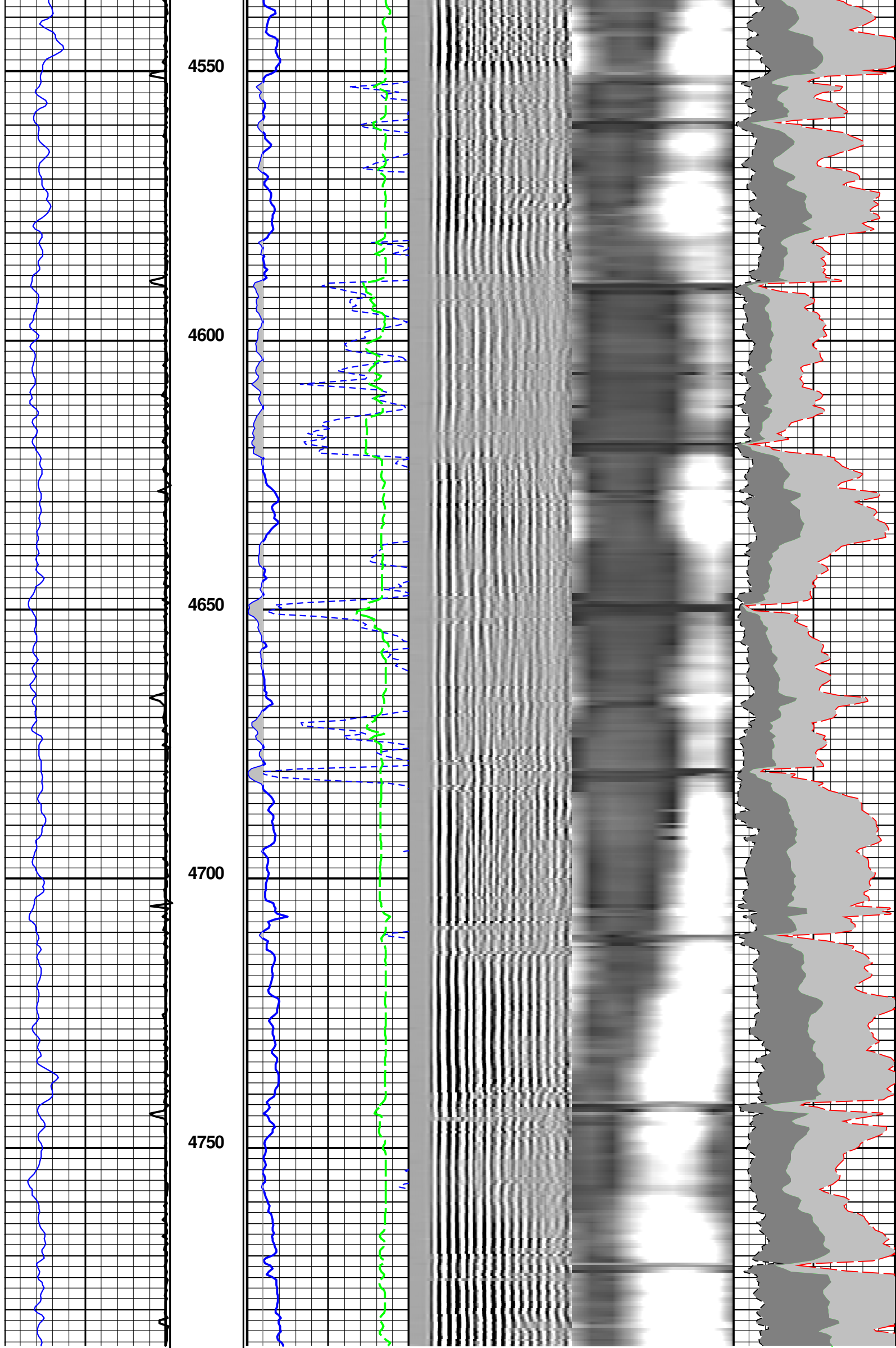


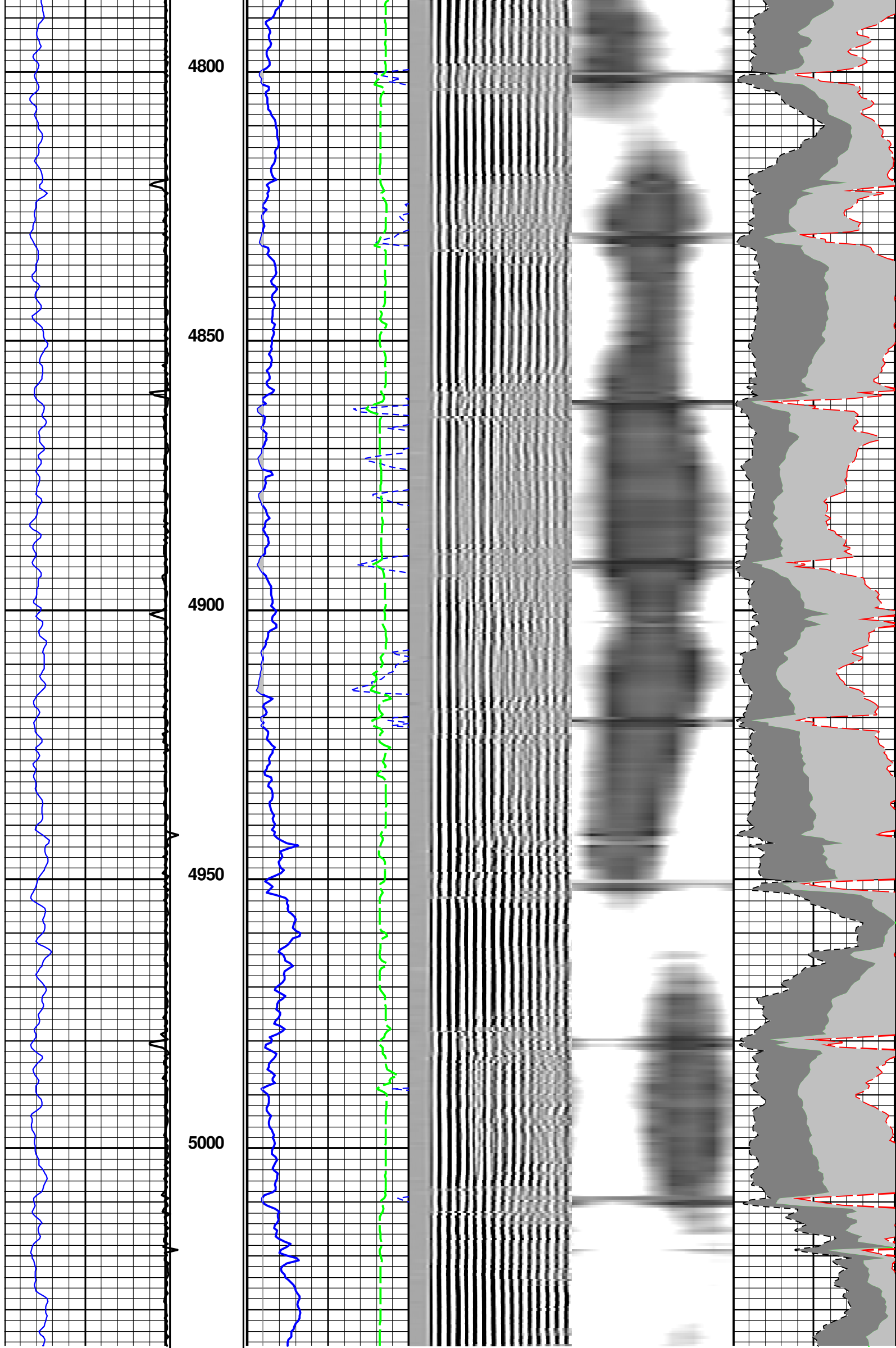


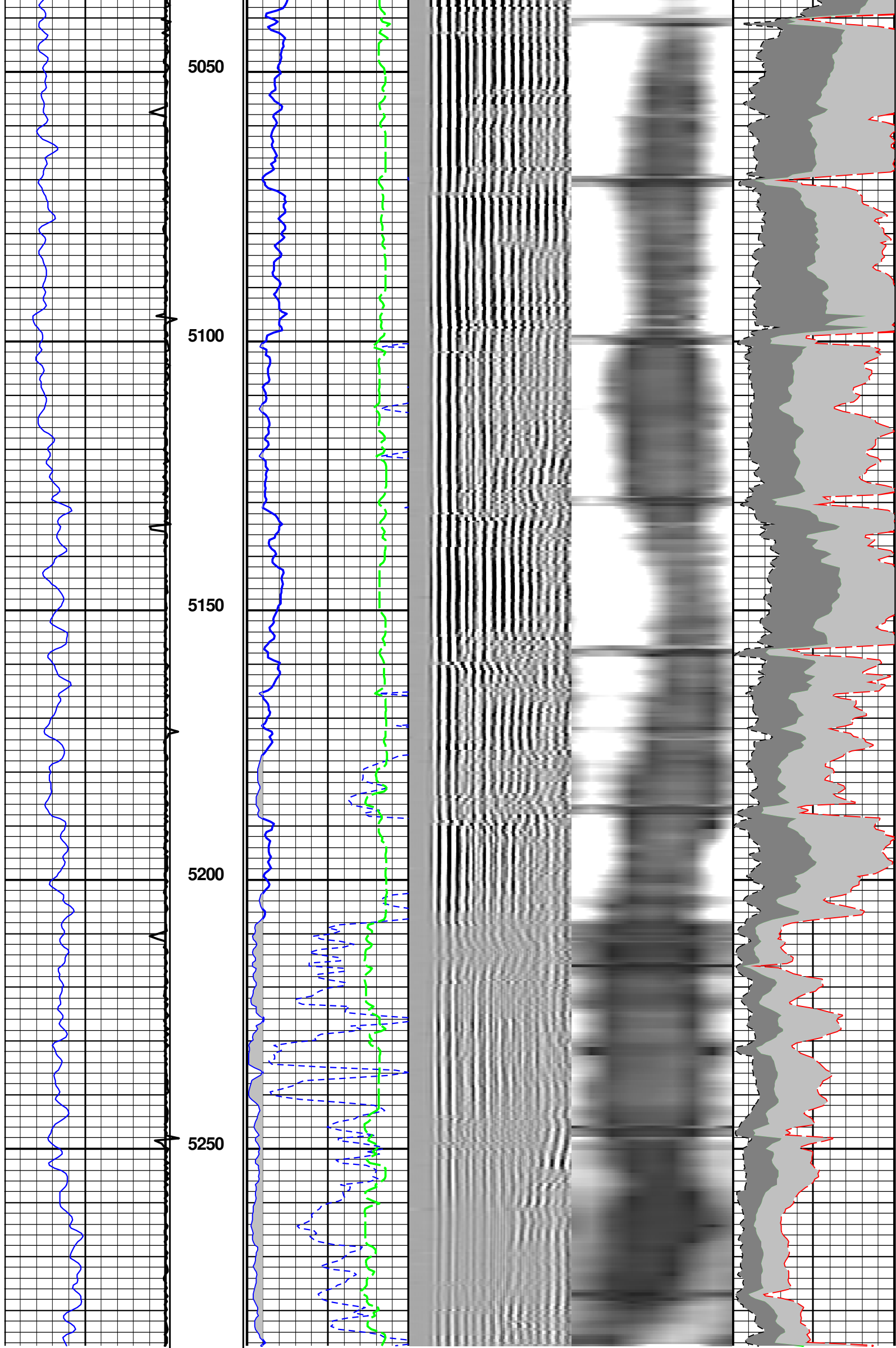


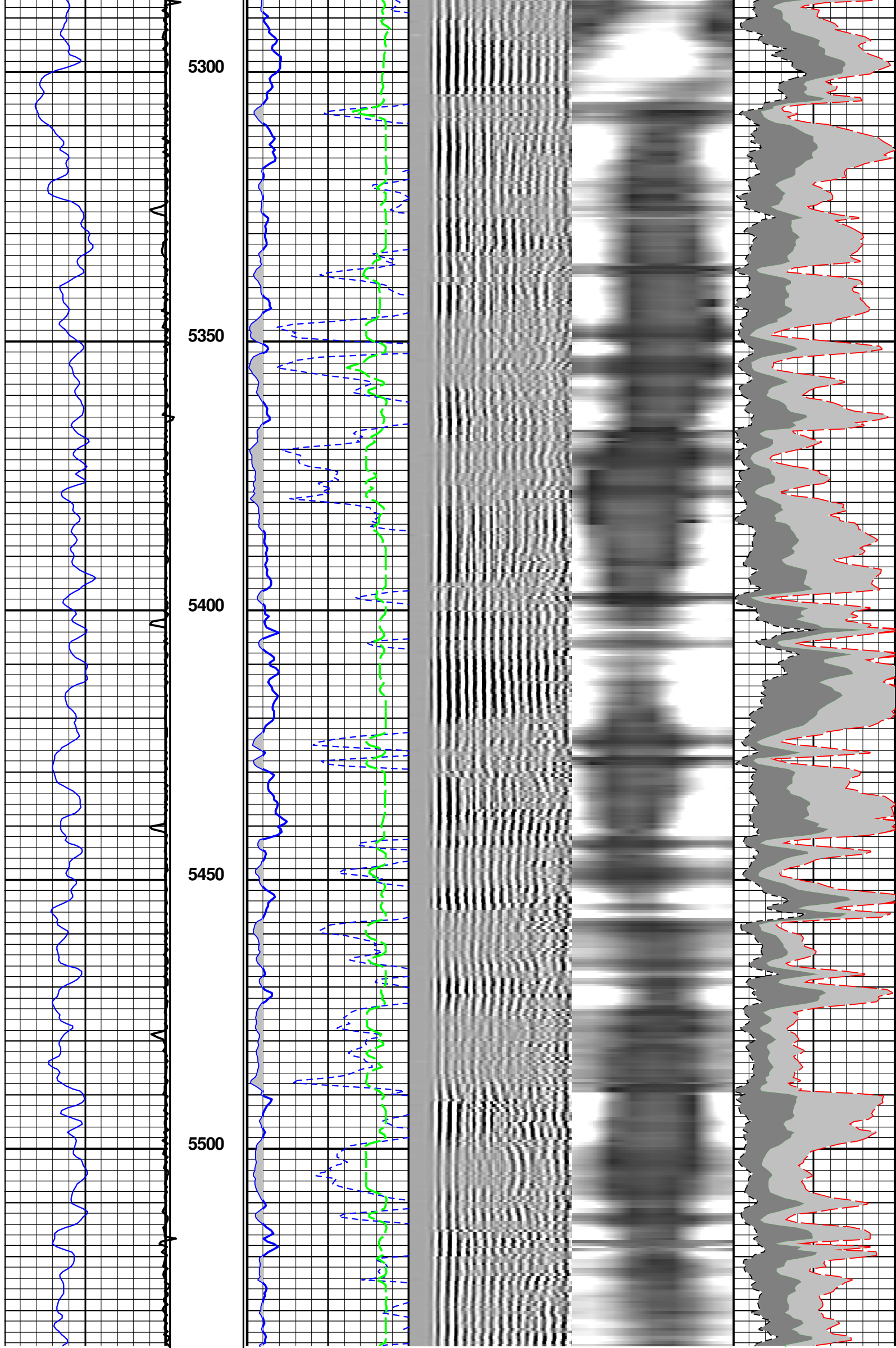


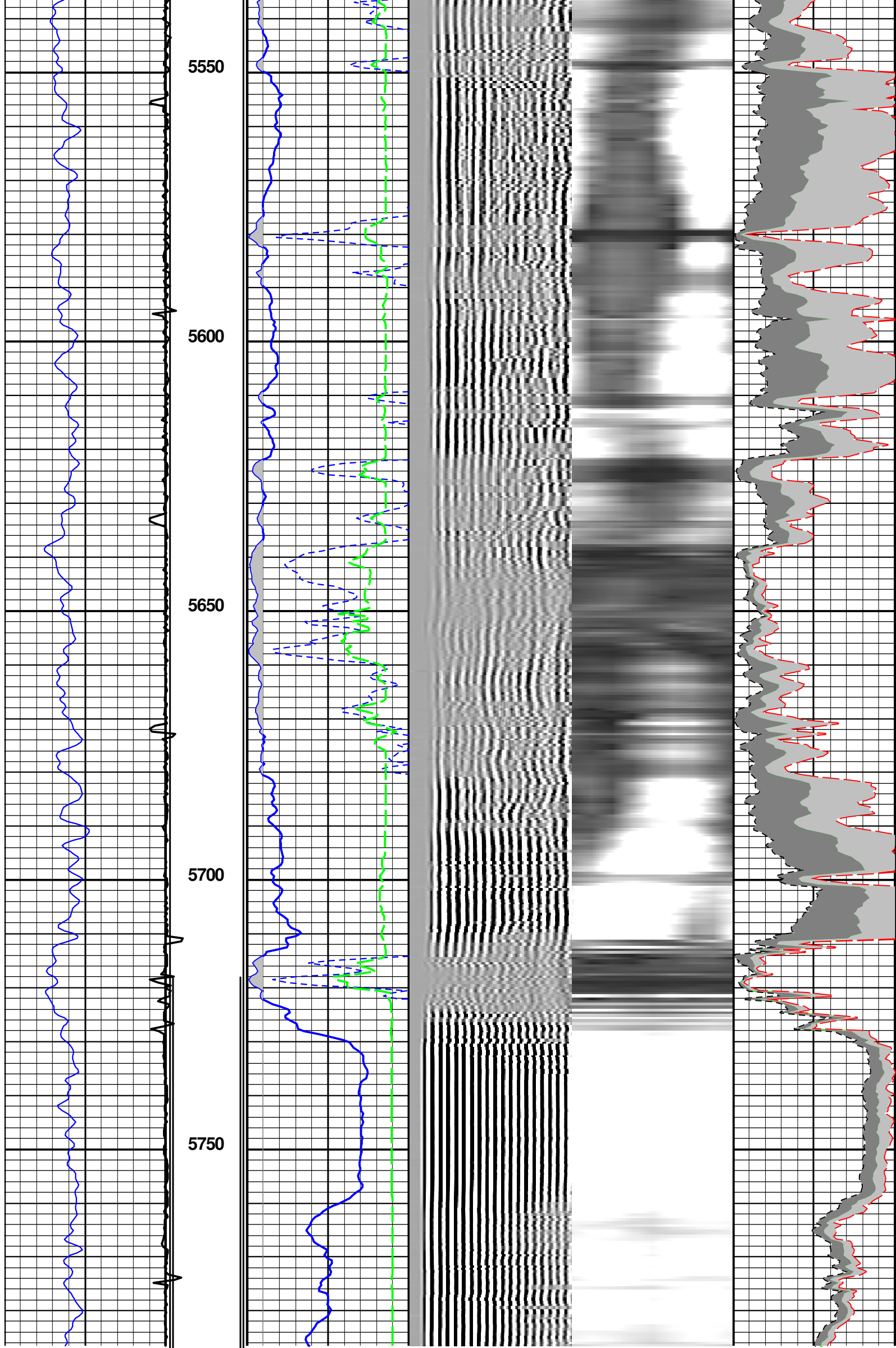




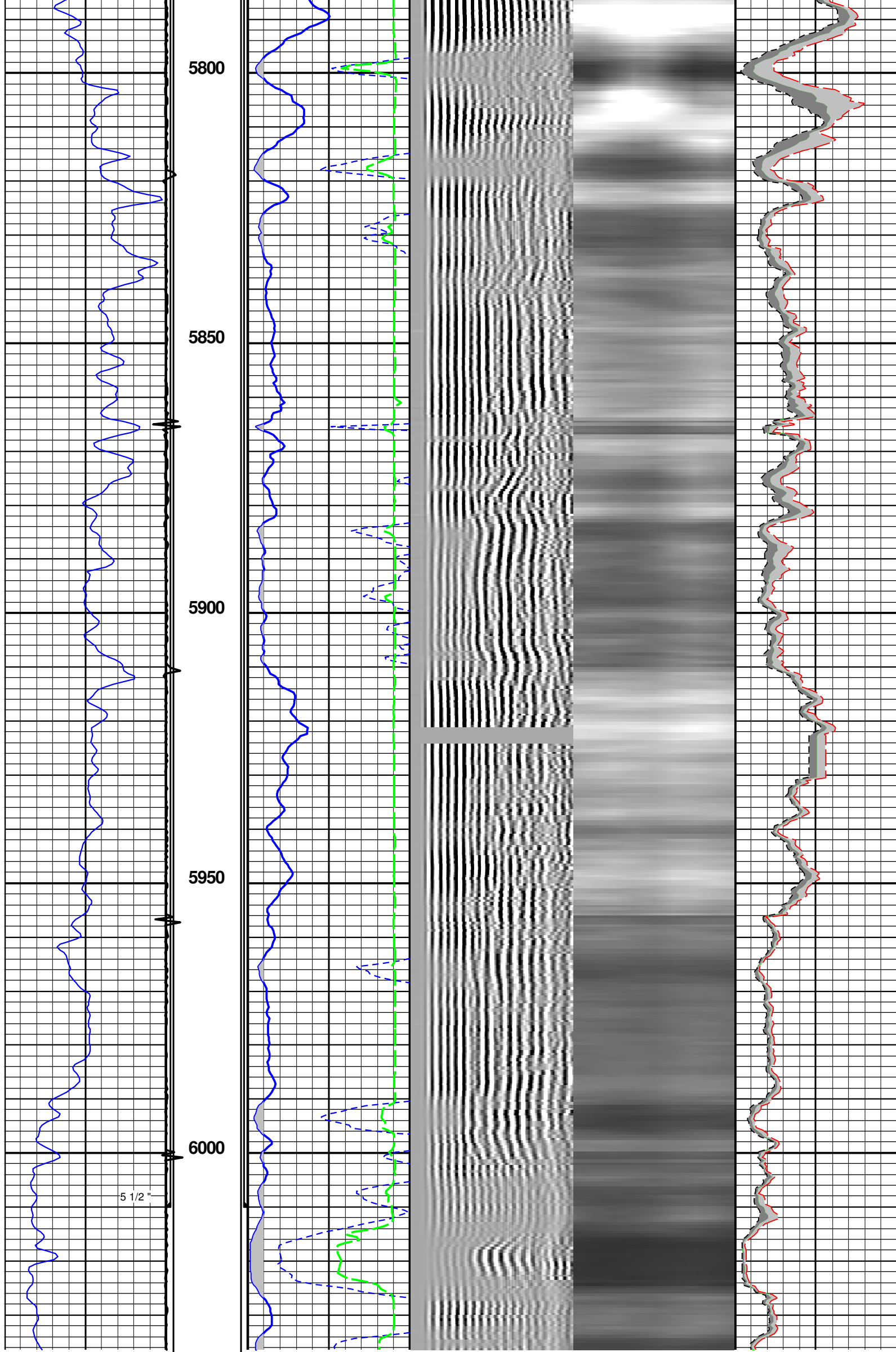


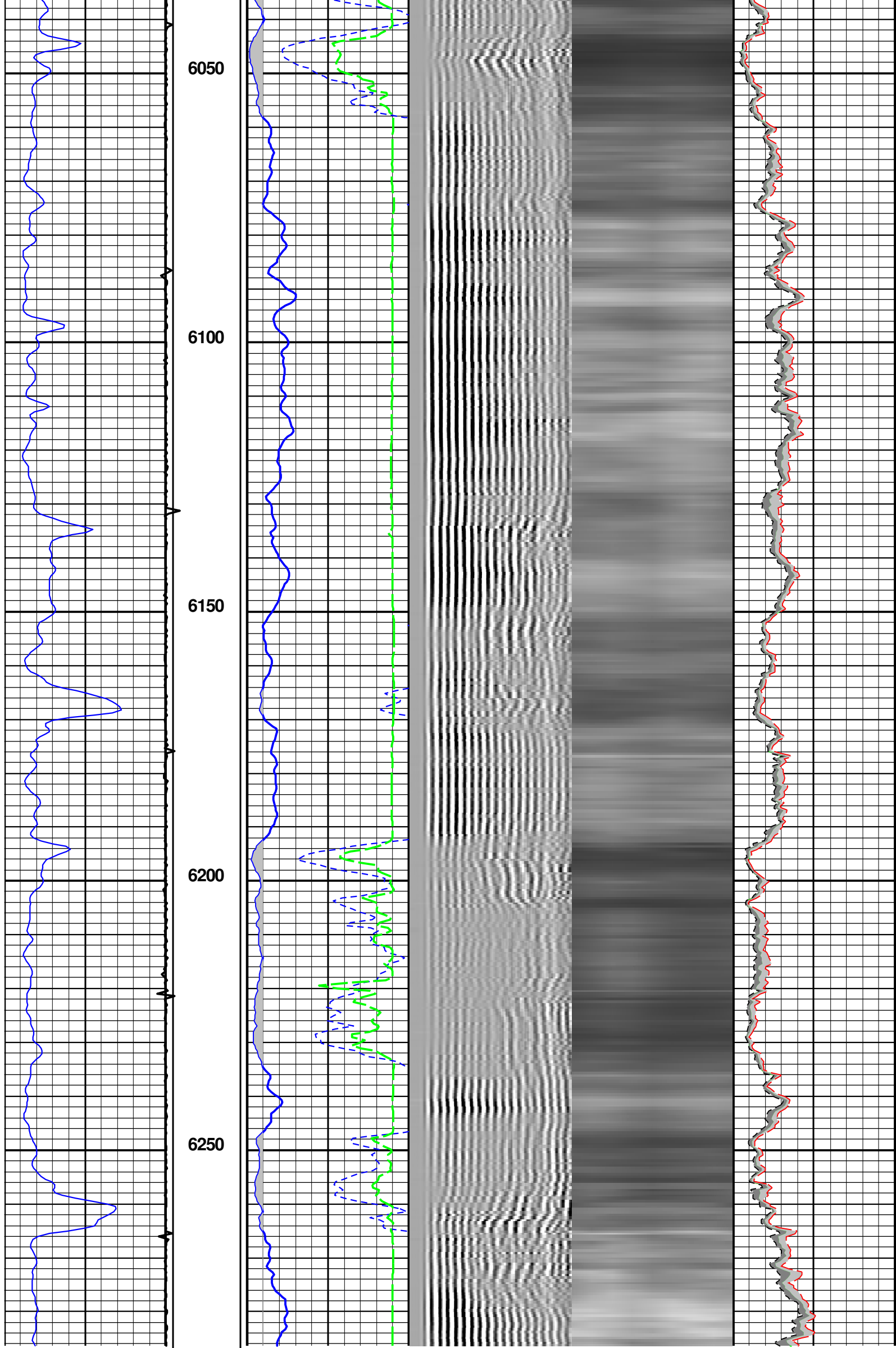




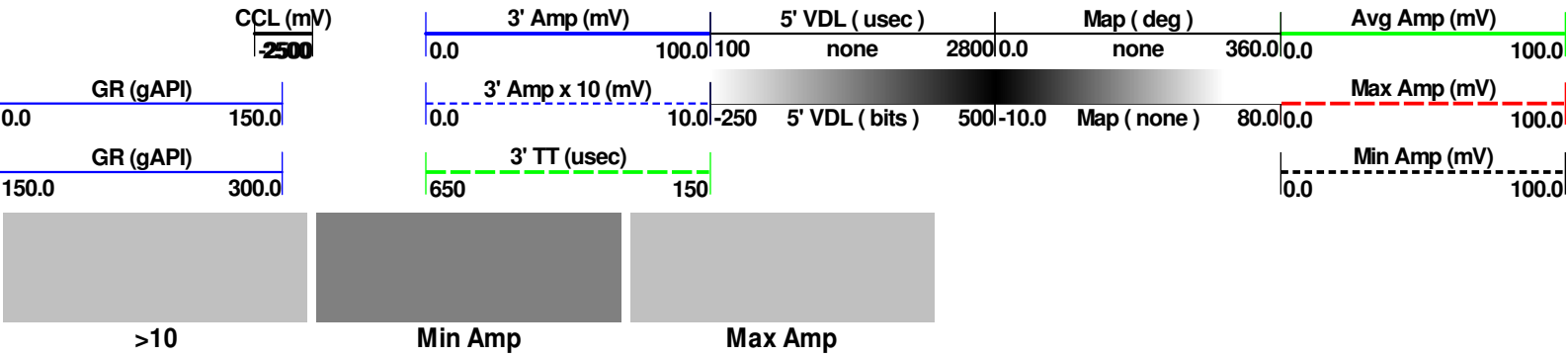
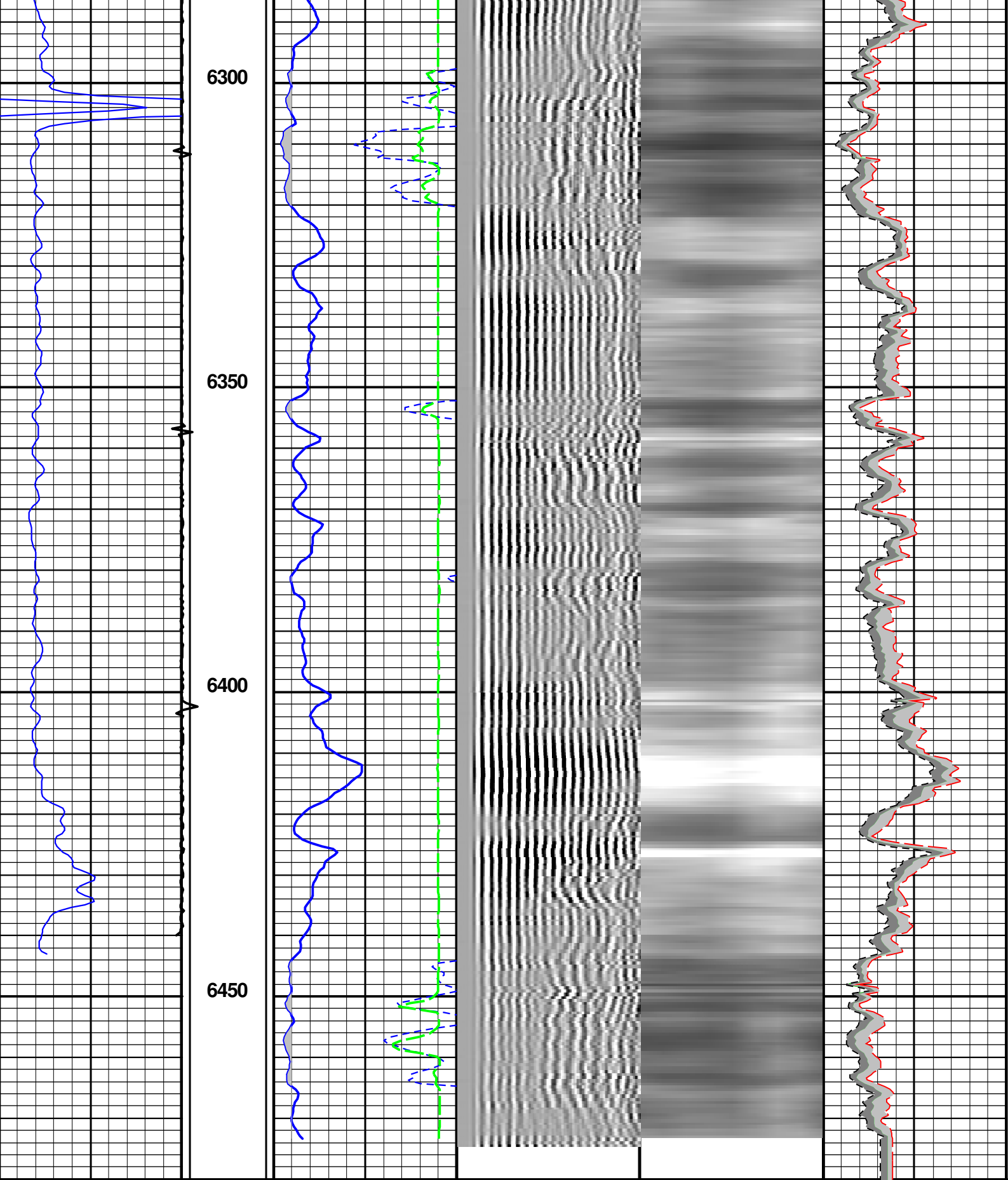












Repeat Pass

# Logged under -0- PSI surface induced pressure

Company : Chevron USA Inc.

Well : Union Pacific #10-21

Scale : 1 : 240

Depth in : ft

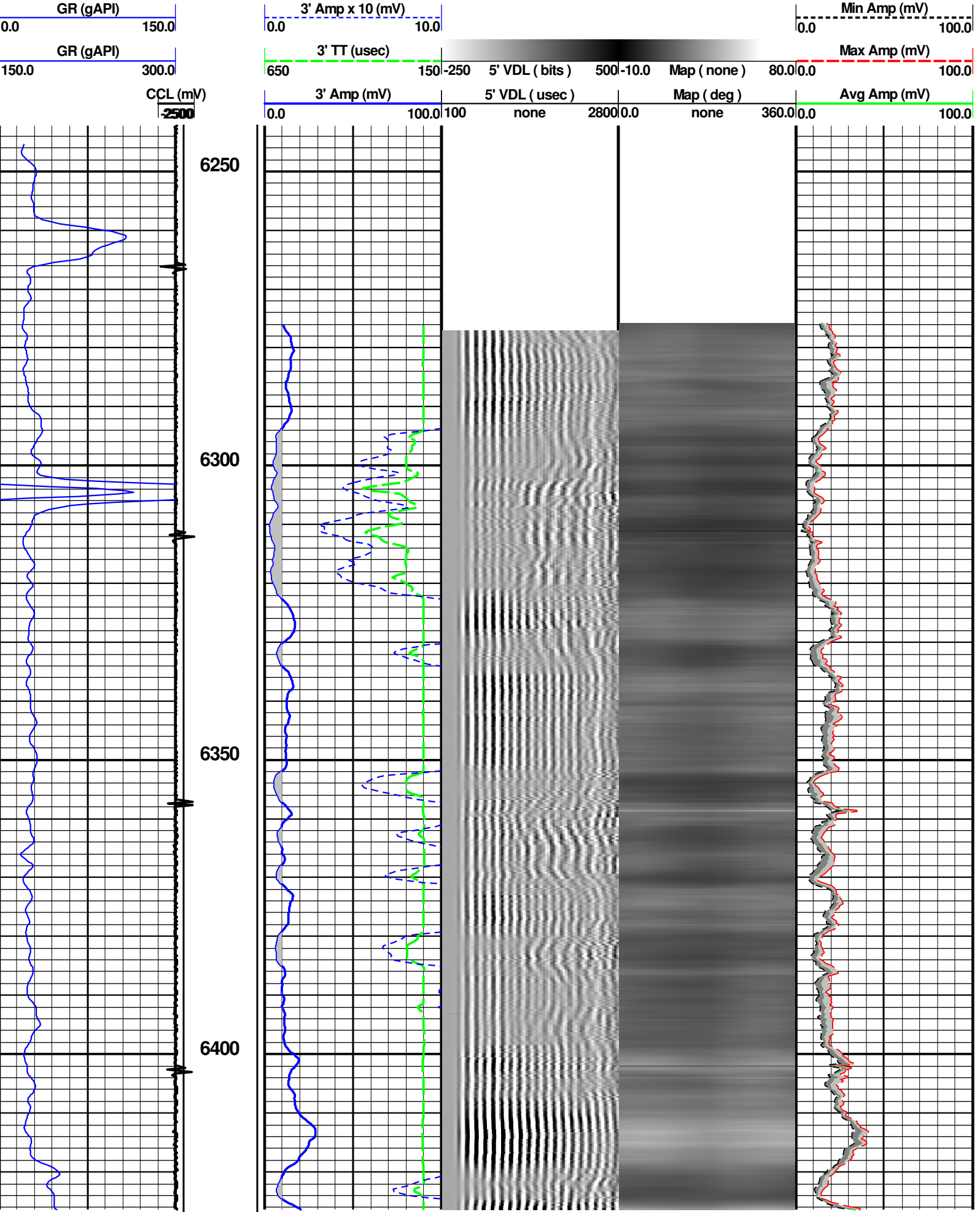
Software : WinAPIot Ver. 5, 80, 0, 0

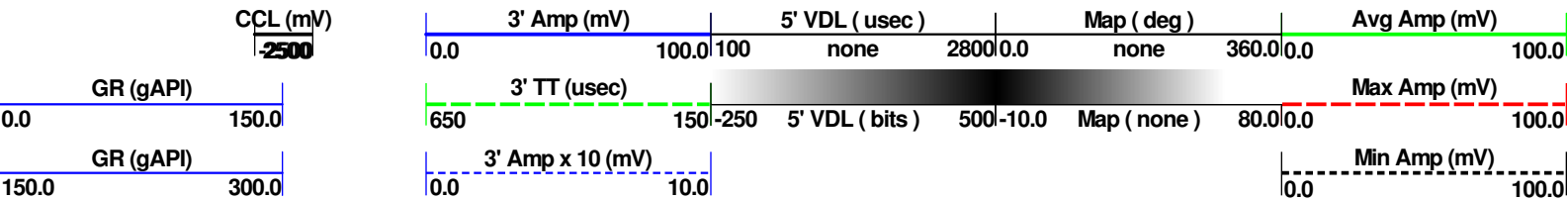
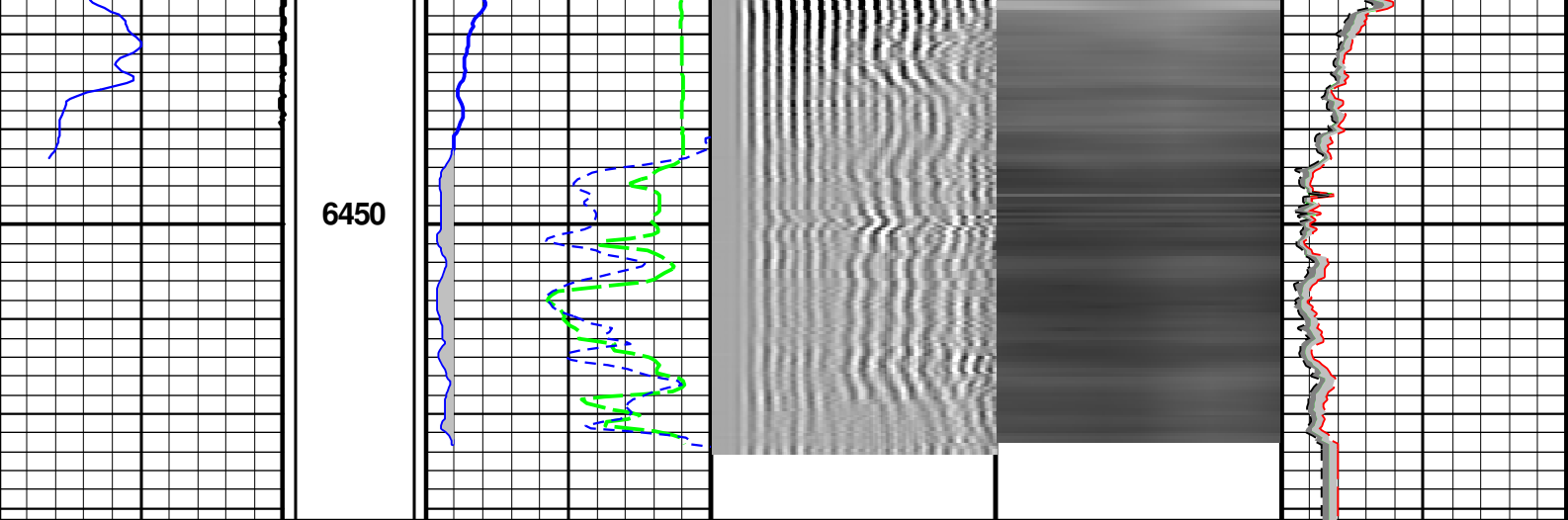
Date : November 19, 2014

Time : 09:30:20

Remarks :

File Name : Repeat DC





	API #:05-103-05685	DATE :November 19, 2014
	COMPANY:Chevron USA Inc.	
	WELL:Union Pacific #10-21	
	FIELD:Rangely Weber Sand Unit	
	COUNTY:Rio Blanco	STATE:Colorado
Radial Cement Bond Gamma Ray Casing Collar Log		