										<div>SECUREVIEW</div> <div>ULTRAVIEW / BONDVIEW</div> <div>CEMENT ANALYSIS</div>									
COMPANY										EXTRACTION OIL & GAS									
WELL										WINDER SOUTH #6									
FIELD										WATTENBERG									
PROVINCE/COUNTY										WELD									
COUNTRY/STATE										USA / COLORADO									
LOCATION										SE NE 9-6N-67W									
SEC 9		TWP 6N		RGE 67W		Other Services													
Latitude																			
Longitude																			
API Number		05-123-43403																	
Permanent Datum GROUND, Elevation feet																			
Log Measured From KB										Elevations: KB 0.00 DF 0.00 GL 0.00									
Drilling Measured From KB																			
Date					16-NOV-2016					PERFORATION RECORD									
Run Number					ONE					Shot		Number		Depth From		Depth To			
Service Order					7145-166442662					Density		of Shots		feet		feet			
Type Log					URS / CBT														
Depth Driller																			
Depth Logger					6759.00														
Top Log Interval					0.00														
Bottom Log Interval					6759.00														
Hole Fluid Type					WATER														
Hole Fluid Level					88.00														
Restriction ID					4.778														
Max Recorded Temp					198.00														
Well Head Pressure					0.00														
Well Head Equipment					NONE														
Time Well Ready					ON ARRIVAL					Size inches		Weight pounds/ft		Depth From feet		Depth To feet			
Time Logger Bottom					1:00					9.625		36.00		0.00		1556.00			
Unit					14338					5.500		20.00		0.00		16963.00			
Equipment Name					WSS-E														
Base					CASPER														
Recorded By					K.HUSETH														
Witnessed By					NOT WITNESSED														

CASING / TUBING RECORD						
Type	Grade	TypeJoint	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE			9.625	0.00	1556.00	36.00
PRODUCTION	P-110		5.500	0.00	16963.00	20.00

REMARKS
ULTRASONIC RADIAL SCANNER LOG CORRELATED TO RIG KB @ 25 FT ABOVE GROUND LEVEL CEMENTING DATA: LEAD: ELASTICEM 150 SACKS, 13.2LB/GAL, 1.57FT^3/SACK TAIL: ELASTICEM W/ SUPER CBL, 2100 SACKS, 13.2LB/GAL, 1.57FT^3/SACK BELOW SURFACE CASING THE TOOL HAD MANY AREAS WHERE IT EXPERIENCED DECENTRALIZATION DUE TO DEVIATION AND DOG LEGS IN THE CASING. IT SHOULD BE NOTED THAT THIS DECENTRALIZATION OF THE TOOL GREATLY AFFECTS THE READINGS RECORDED OVER THESE INTERVALS ECCENTRICITY IS IN TRACK 1 AND REFLECTED BY FOUR STRIPES ALTERNATING LIGHT AND DARK IN THE AMPLITUDE AND IMPDEANCE MAPS. AT THESE POINTS THE READS ARE INVALID. ALSO THE CASING SHOWED SIGNS OF BEING IN DIRCT CONTACT WITH THE FORMATION WHICH LEADS TO SPIKING IN THE THICKNESS CURVES THE DEPTH OF LOGGING WAS STARTED AT THE POINT AT WHICH THE TOOL WAS DEVIATED ENOUGH THAT IT CAUSED THE HEAD ON THE ULTRASONIC TOOL TO STOP ROTATING

In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will give the Company the benefit of the Contractor's best judgment based on its experience and will perform all such Work in a good

MAIN PASS

Depth Based Data - Maximum Sampling Increment 2.5cm
Plotted on 18-NOV-2016 10:58
Filename: C:\Users\le197426\Desktop\EXTRACTION\WIN...WINDER SOUTH #6 MAIN PASS_001.dta
Recorded on 17-NOV-2016 22:11
System Versions: Logged with 16.05.3841 Processed with 16.05.3841 Plotted with 16.05.3841

Depth in Feet

Timing Marks every 60.0 sec

OVLI

ECCE

Replay Scale 1:240

-26

0

XY Signature 5FT microseconds

CCL MV

AM3F MV

GR API

TM3 US

ECCE

Impd Map MRAYLS

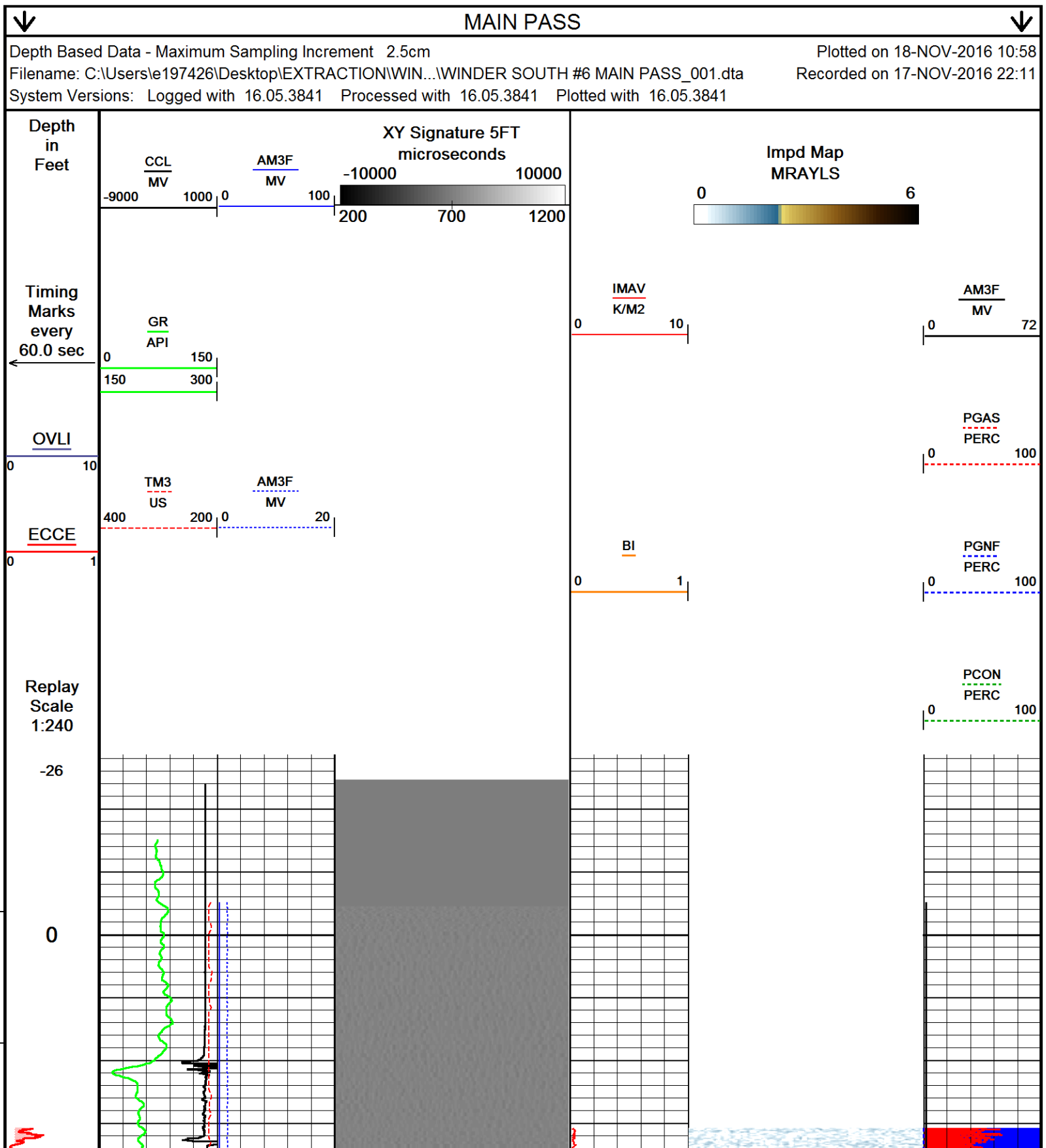
IMAV K/M2

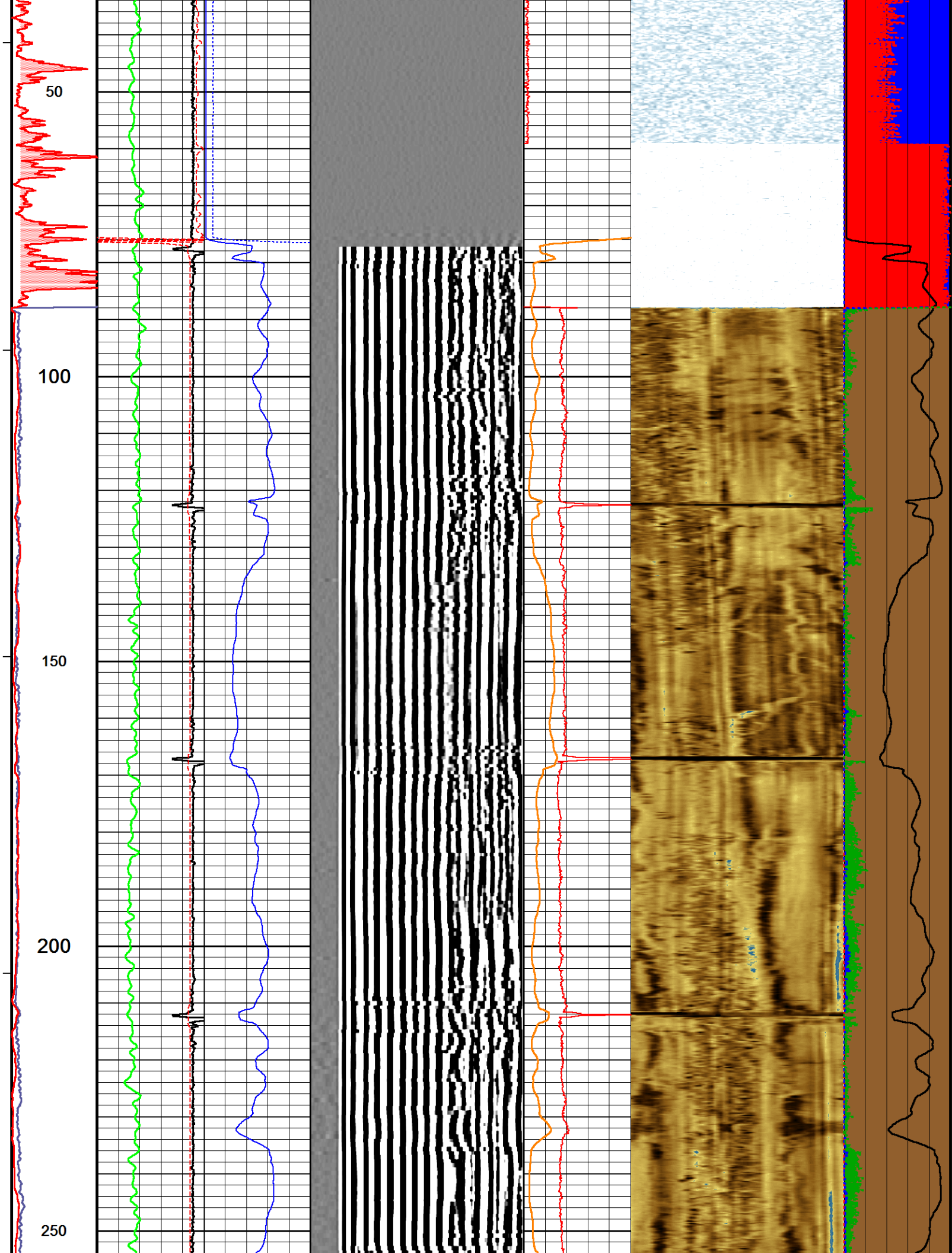
BI

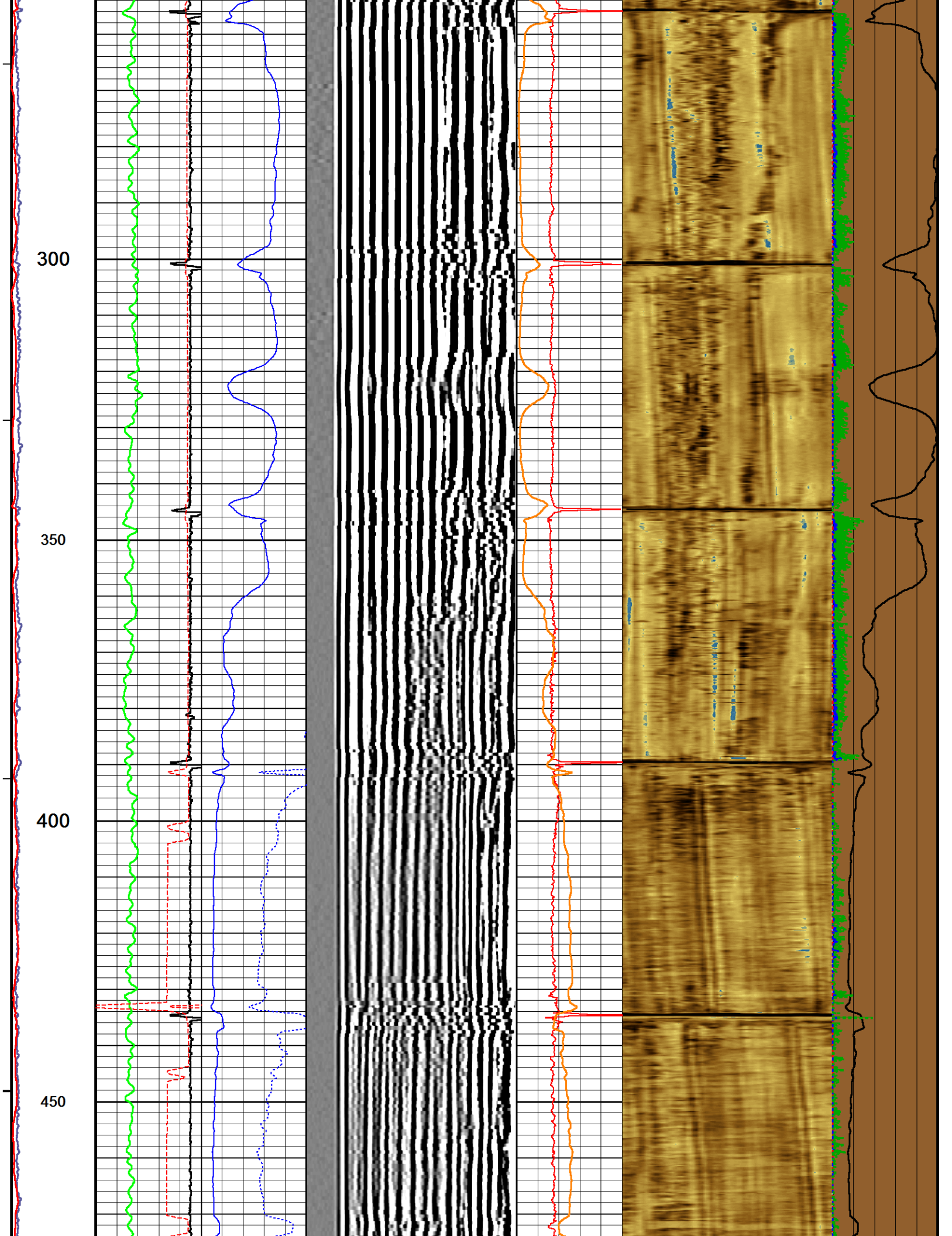
PGAS PERC

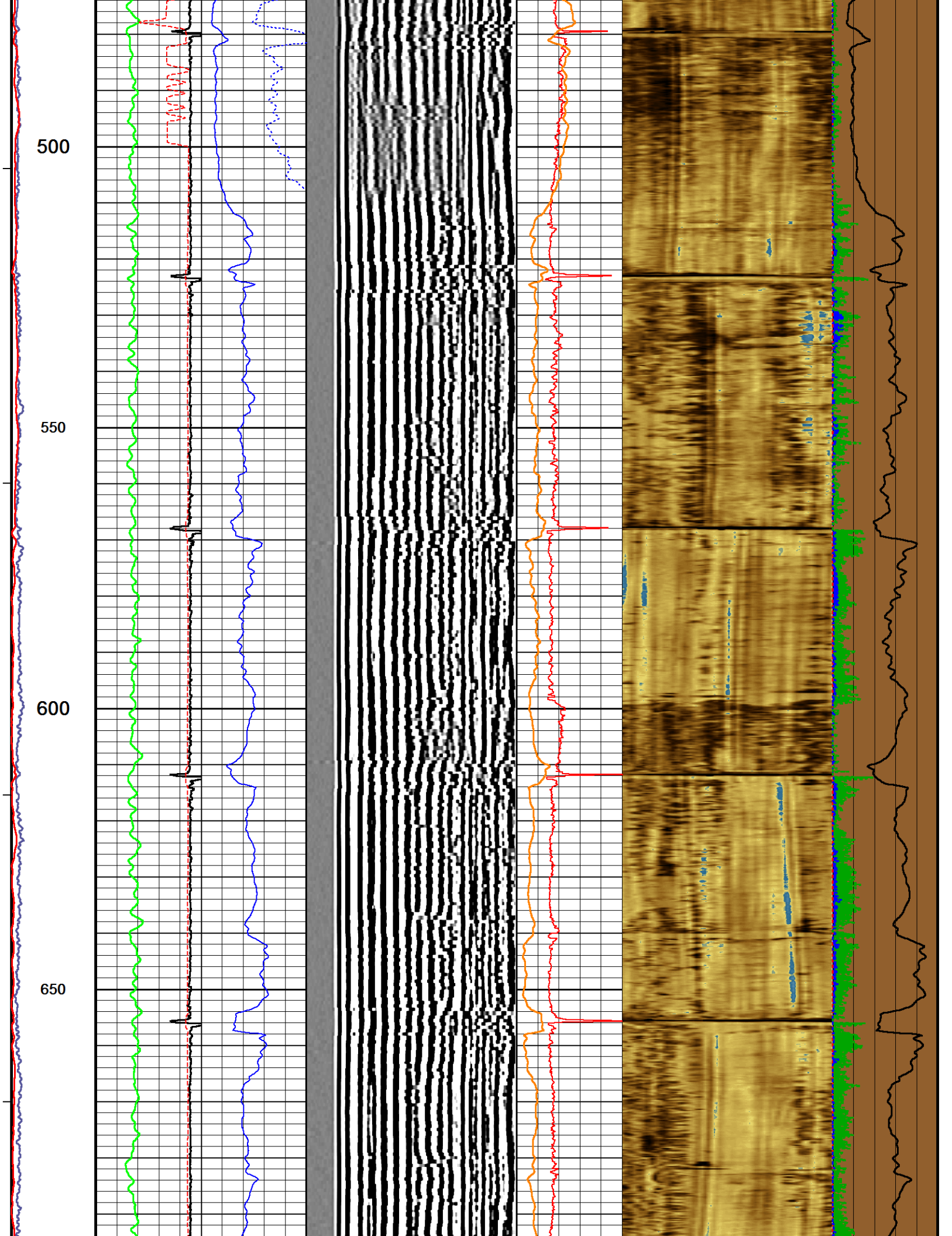
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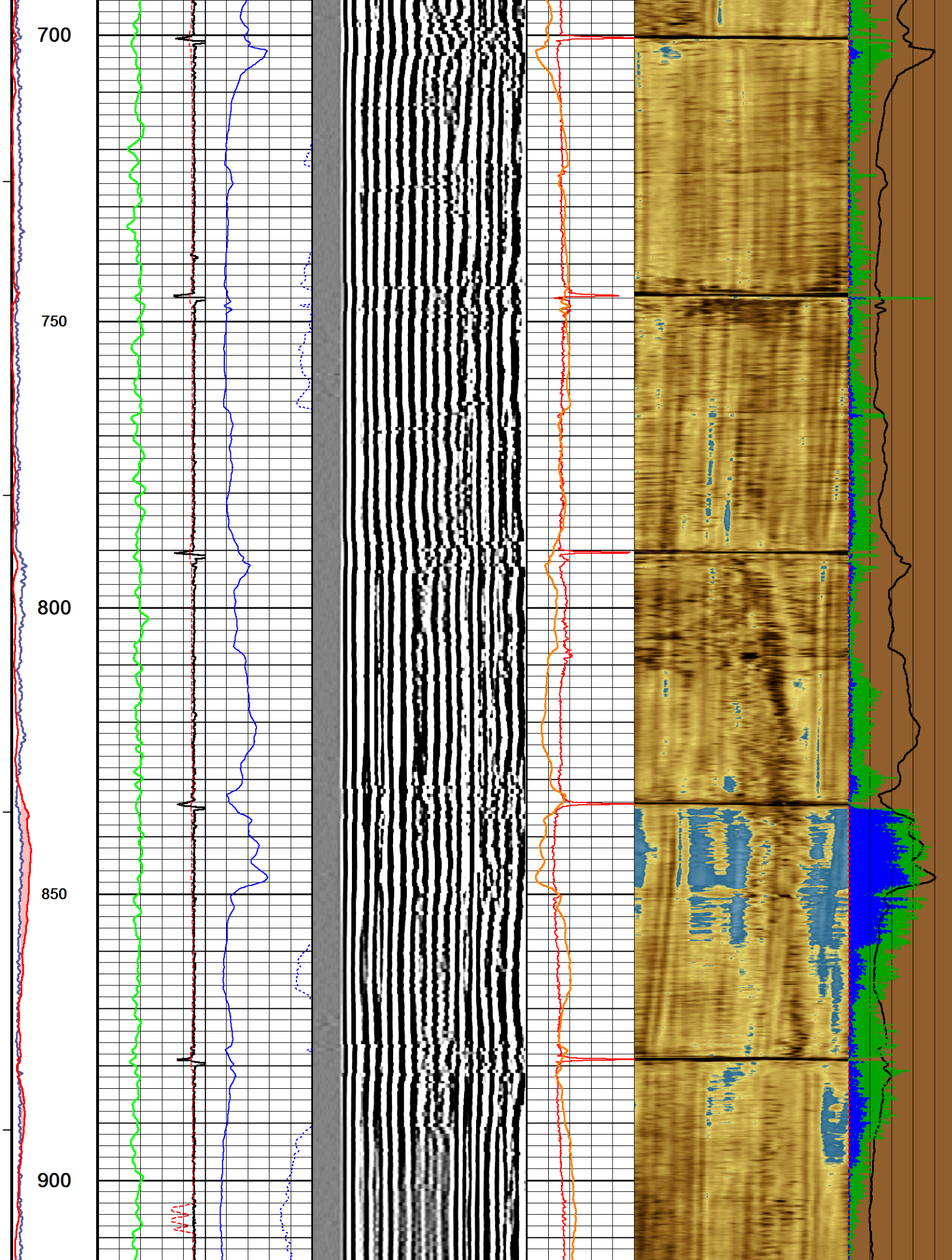
PCON PERC

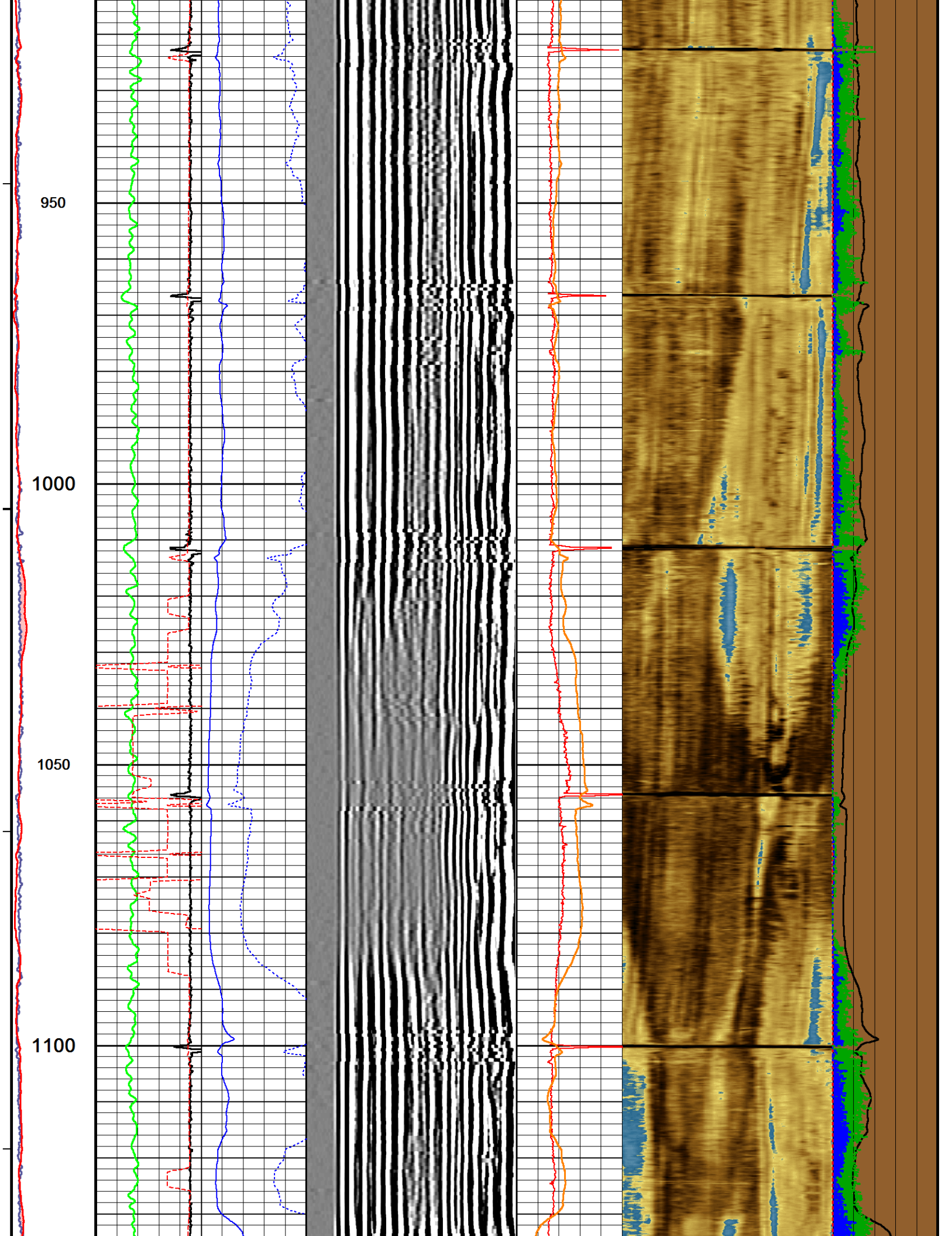


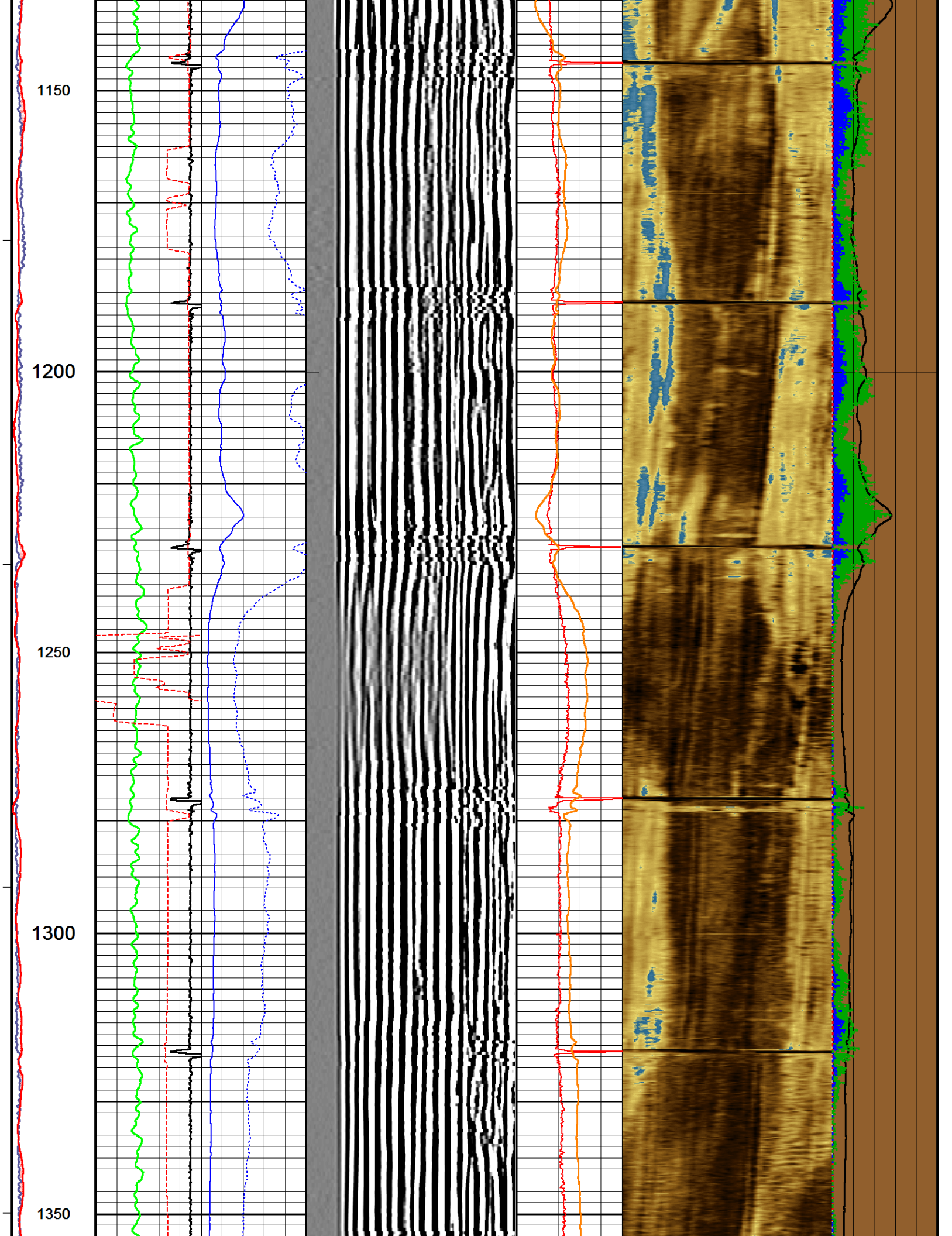


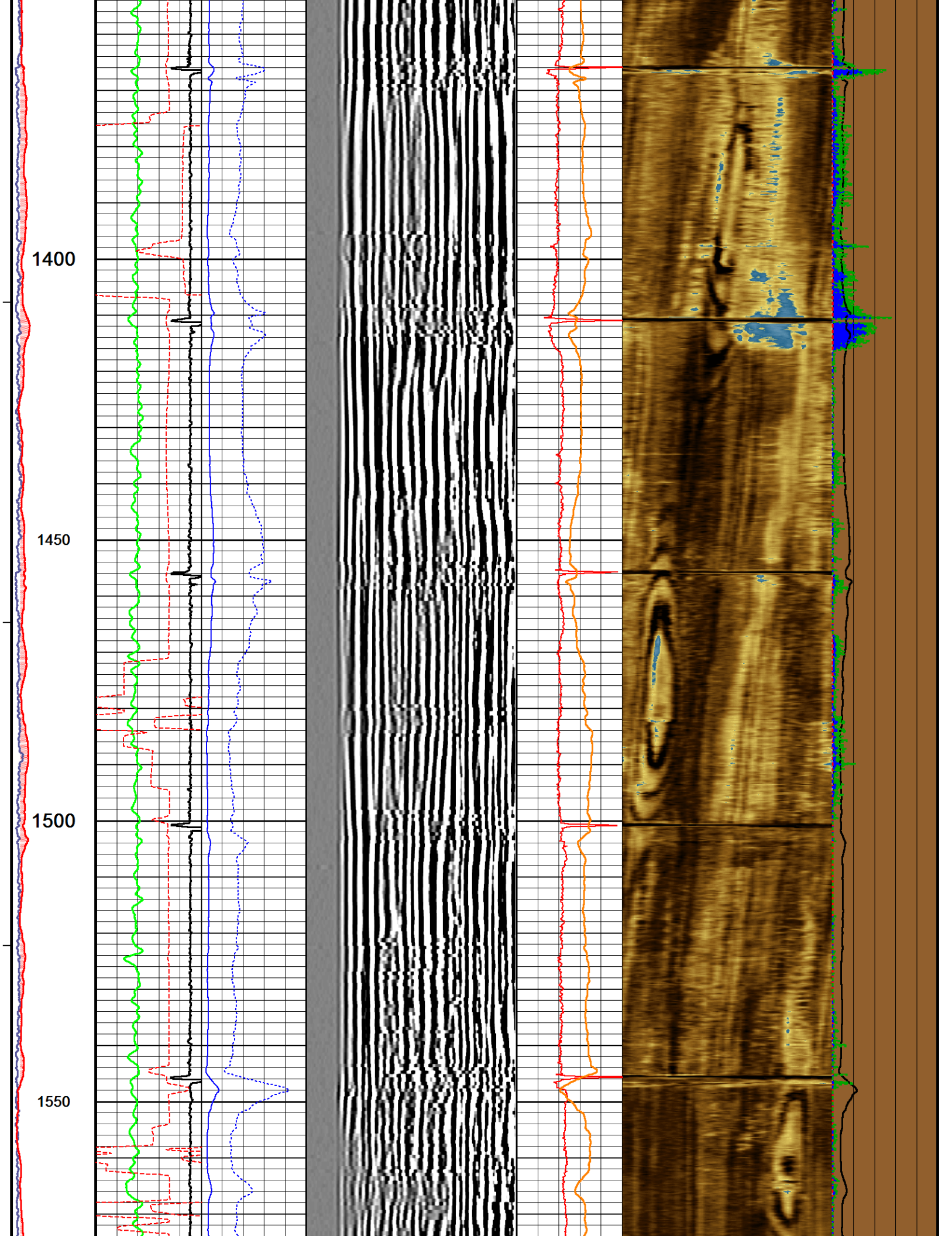


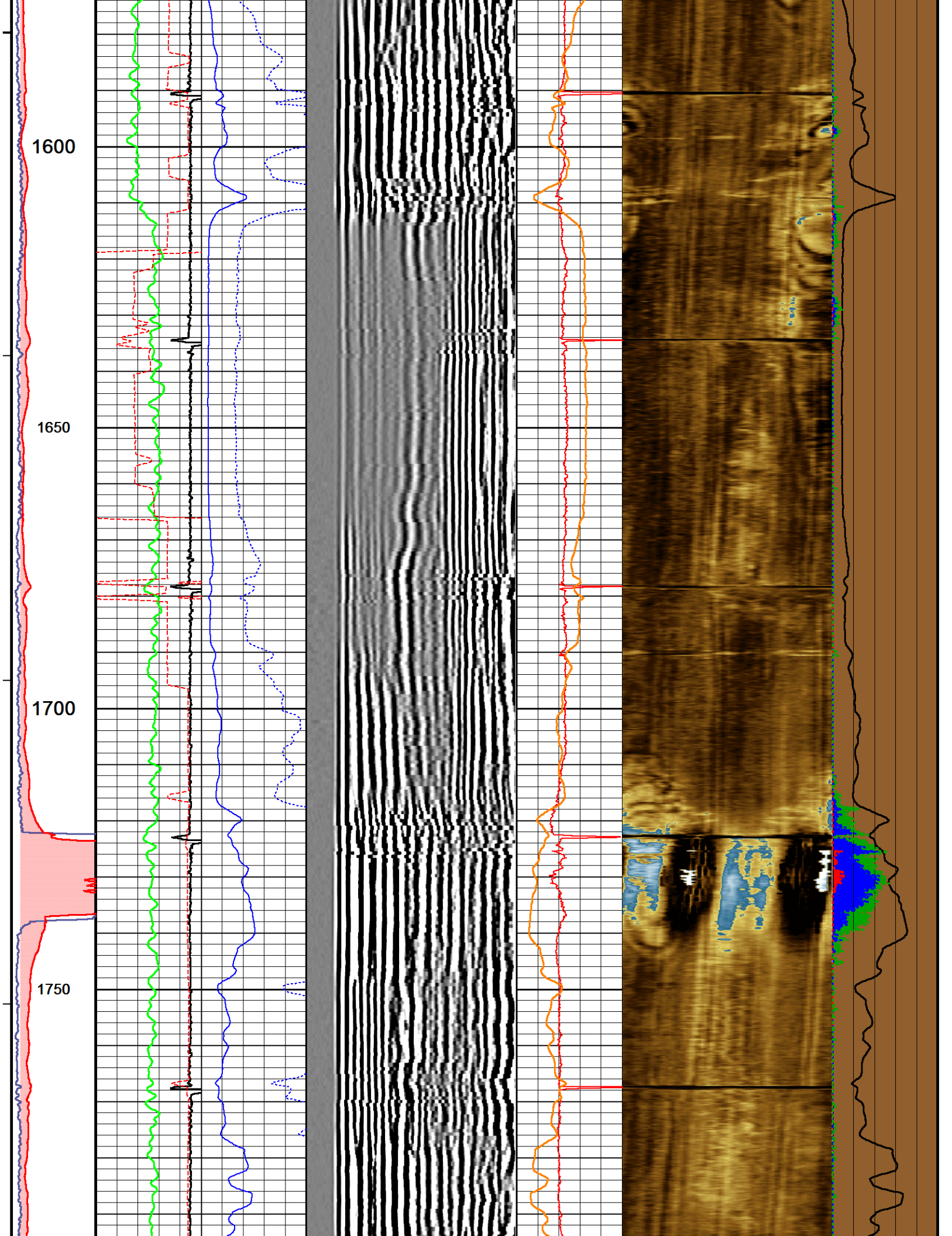


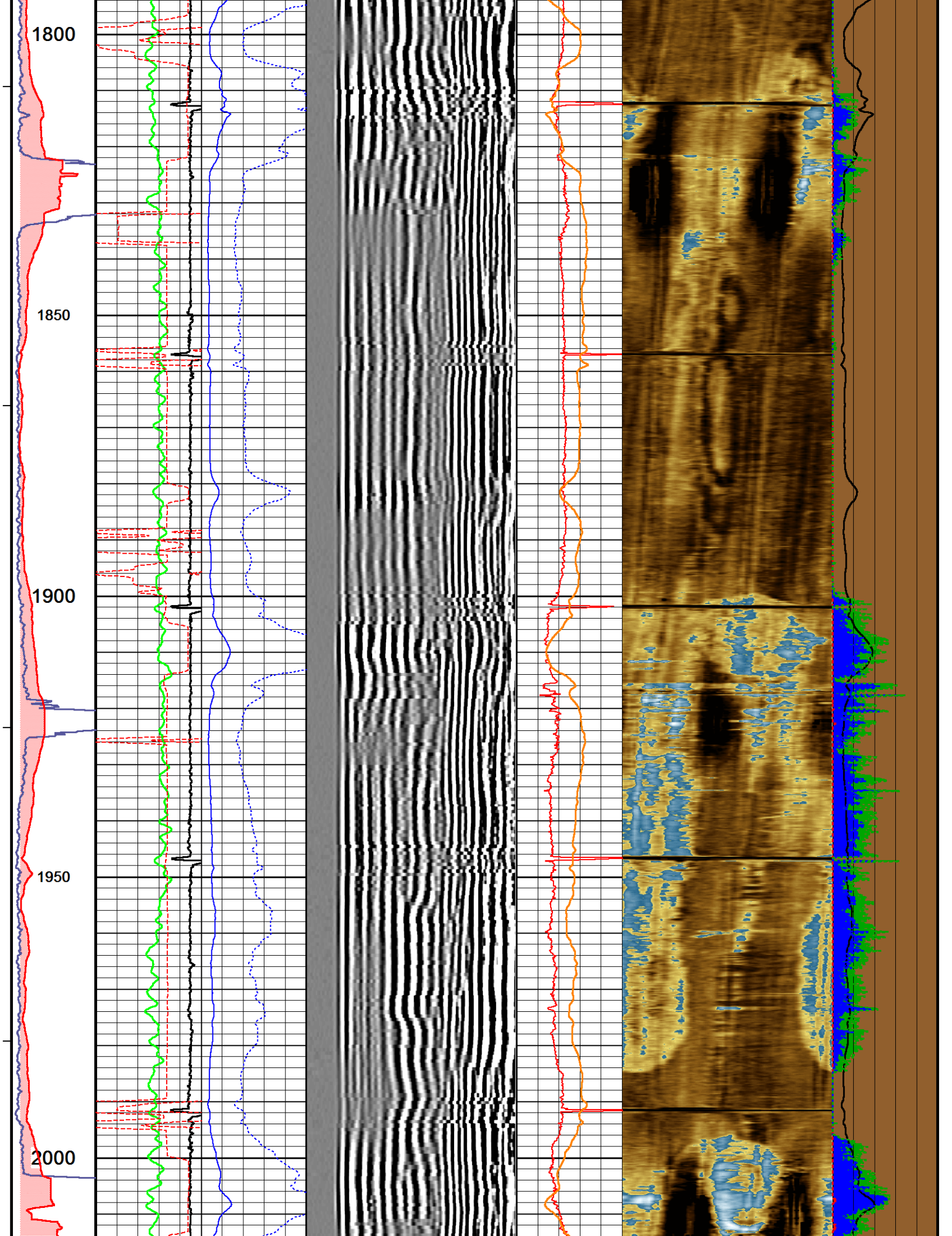


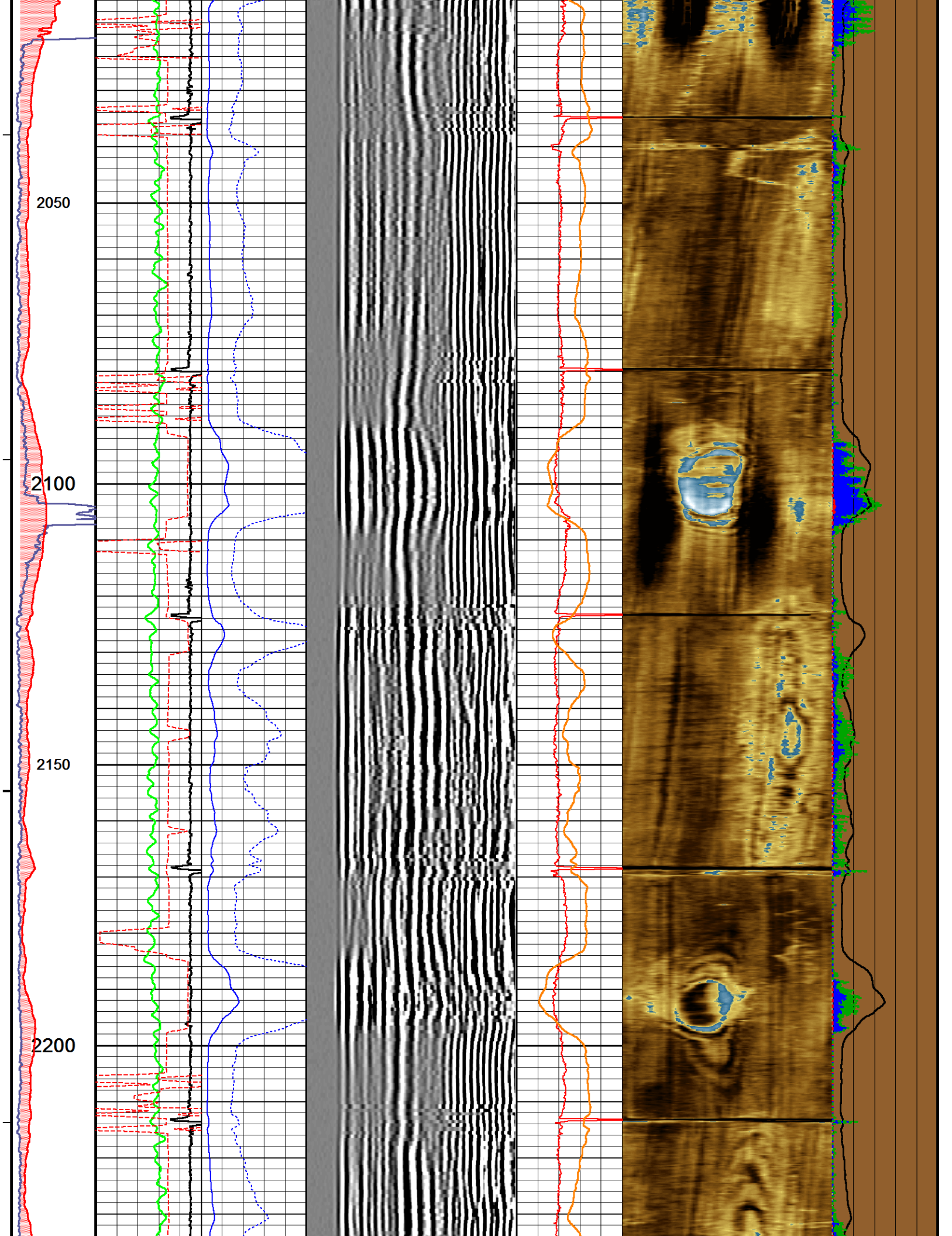


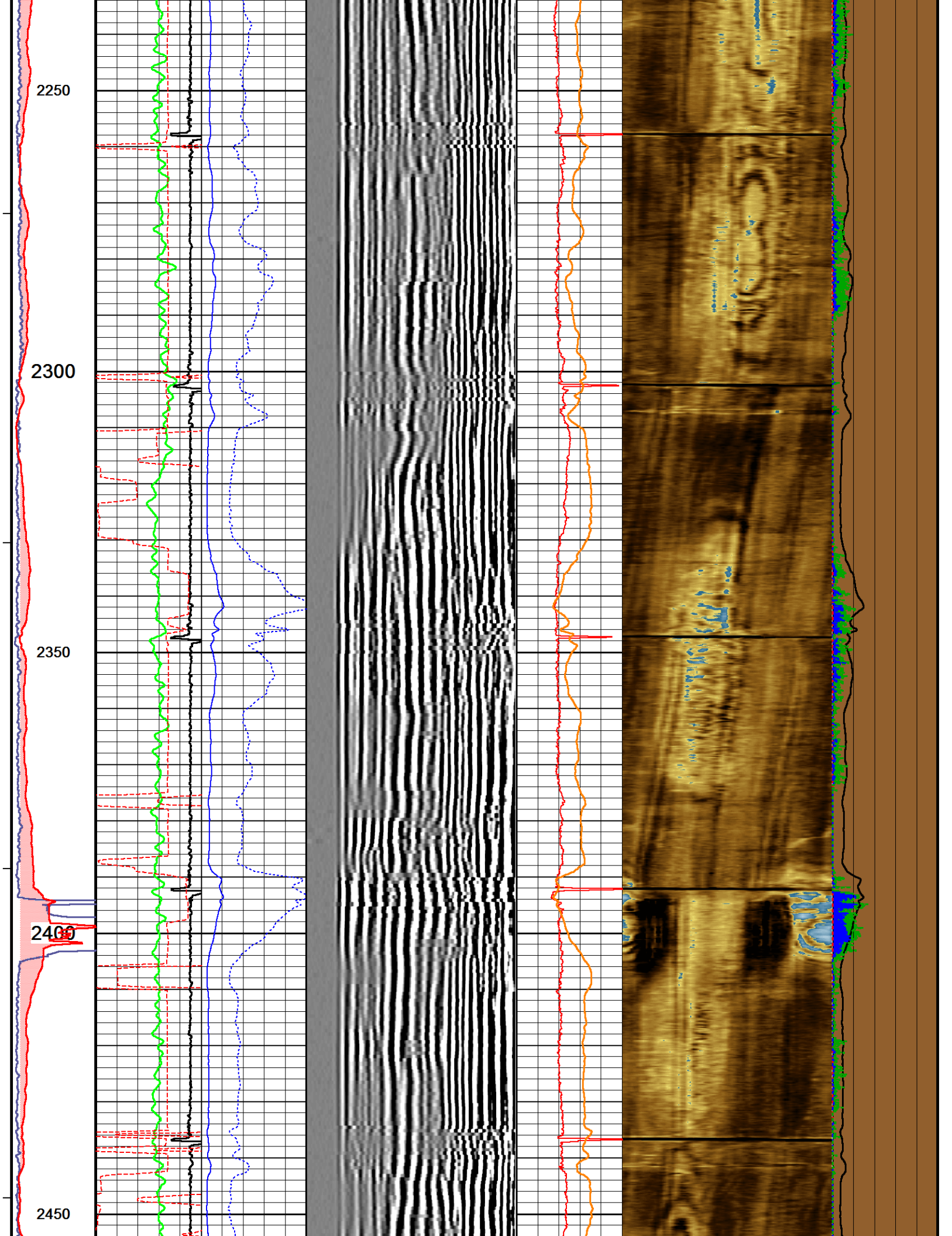


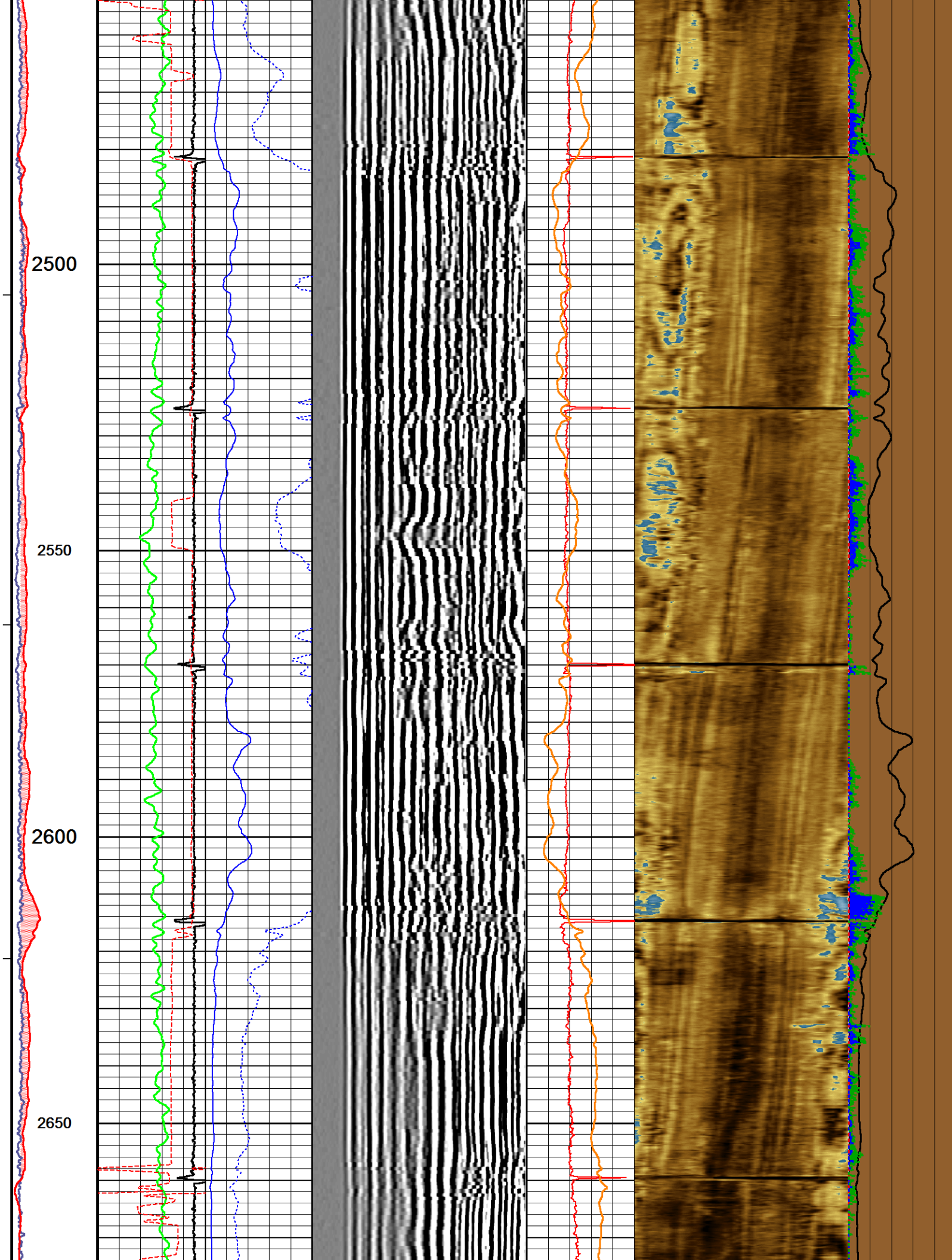


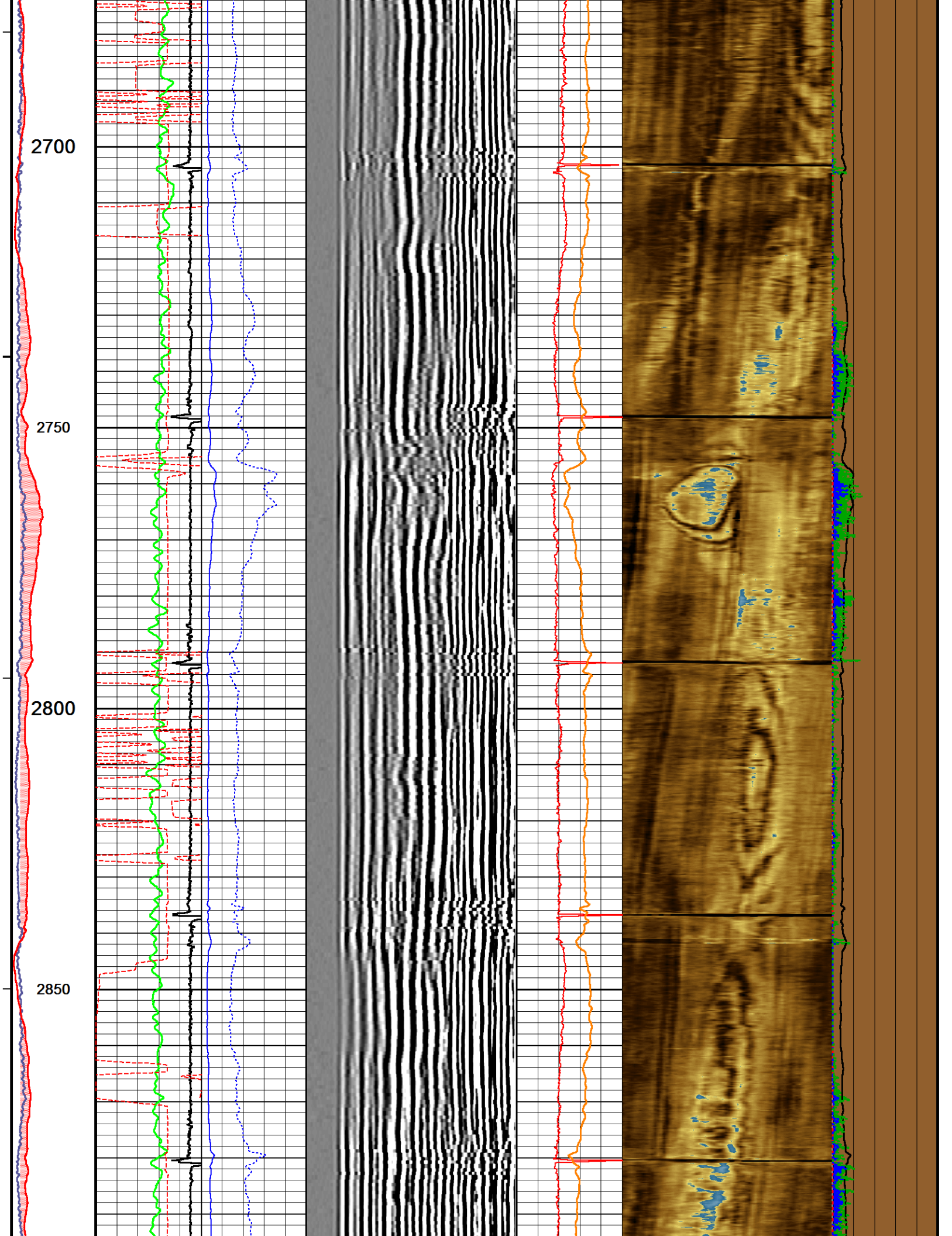


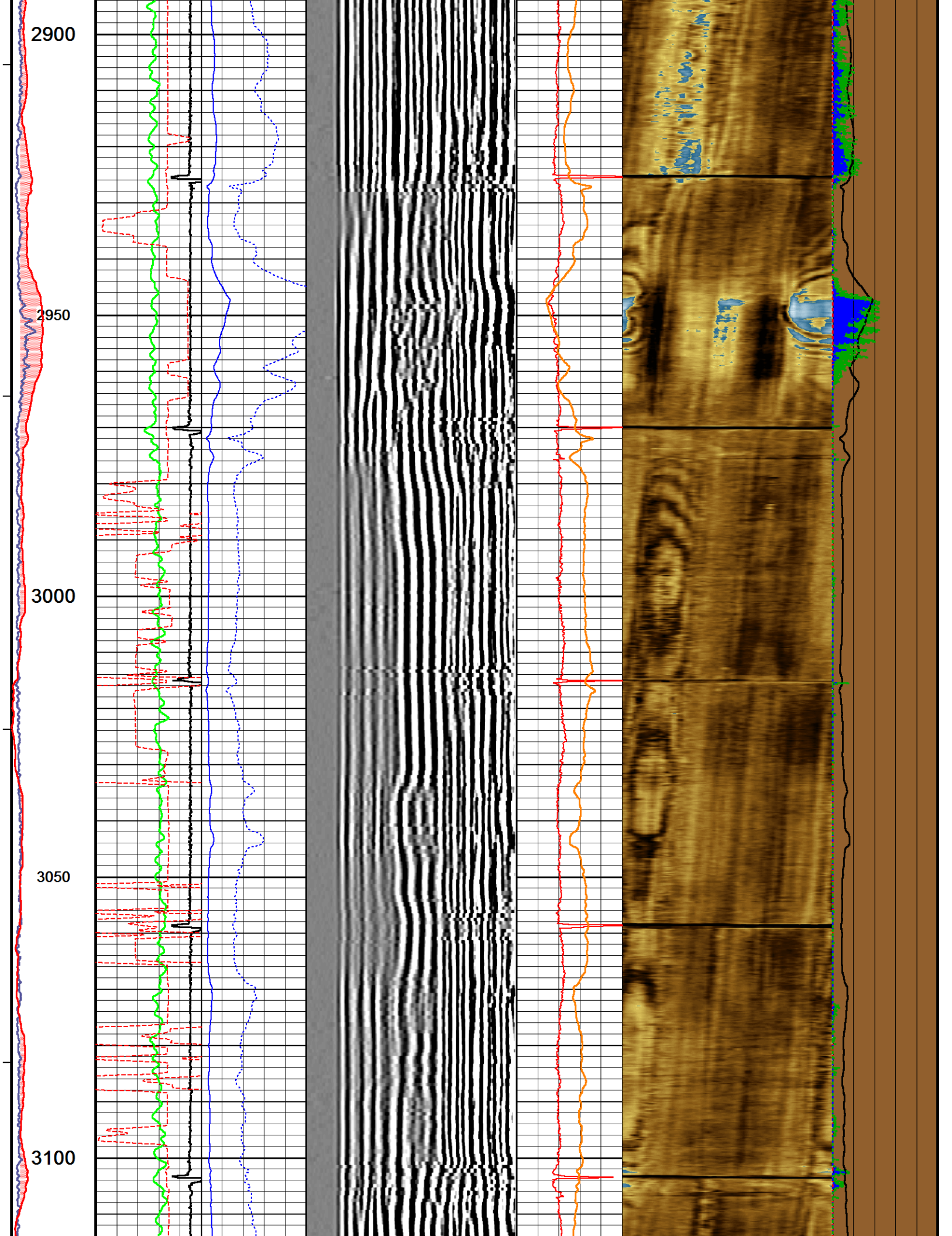


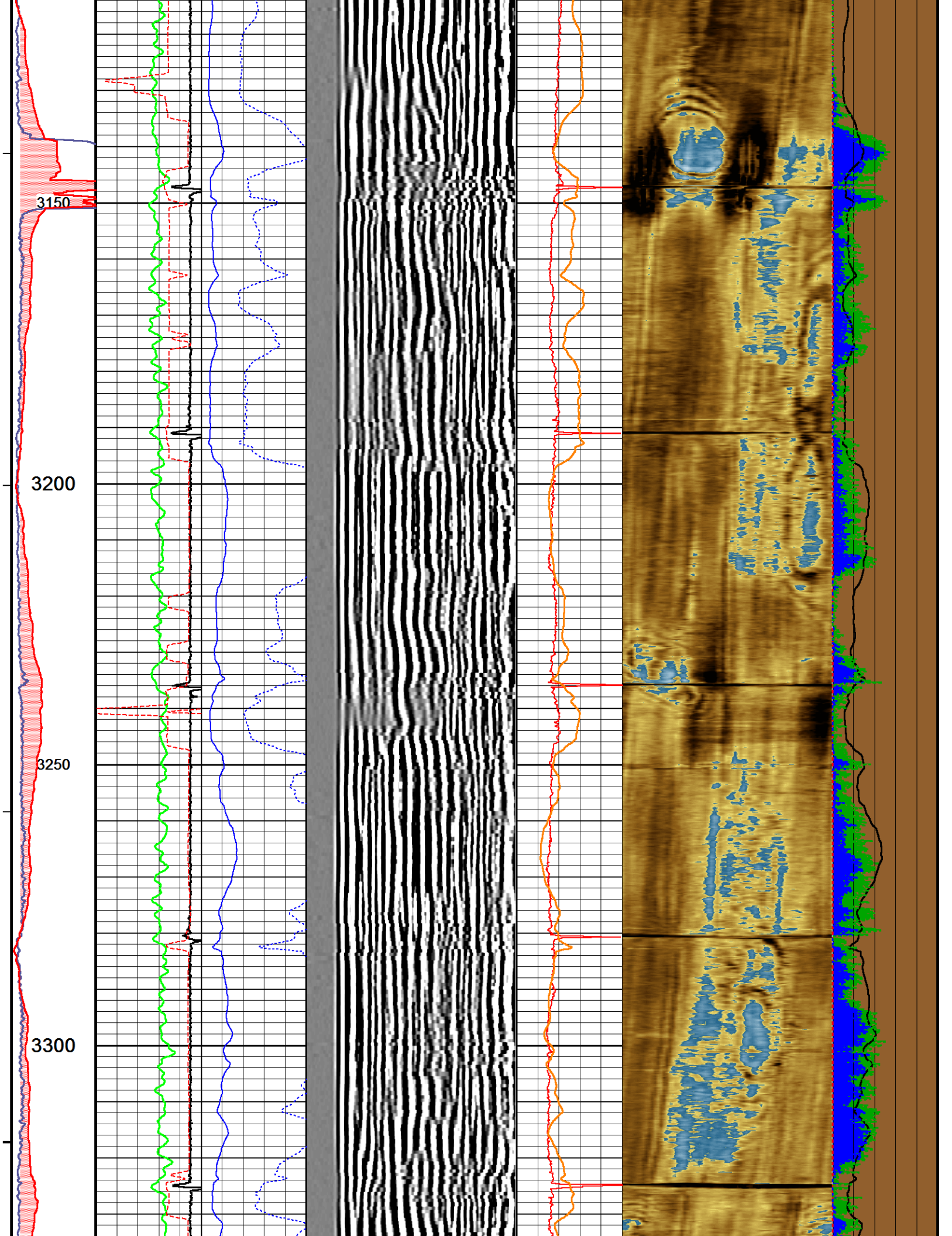


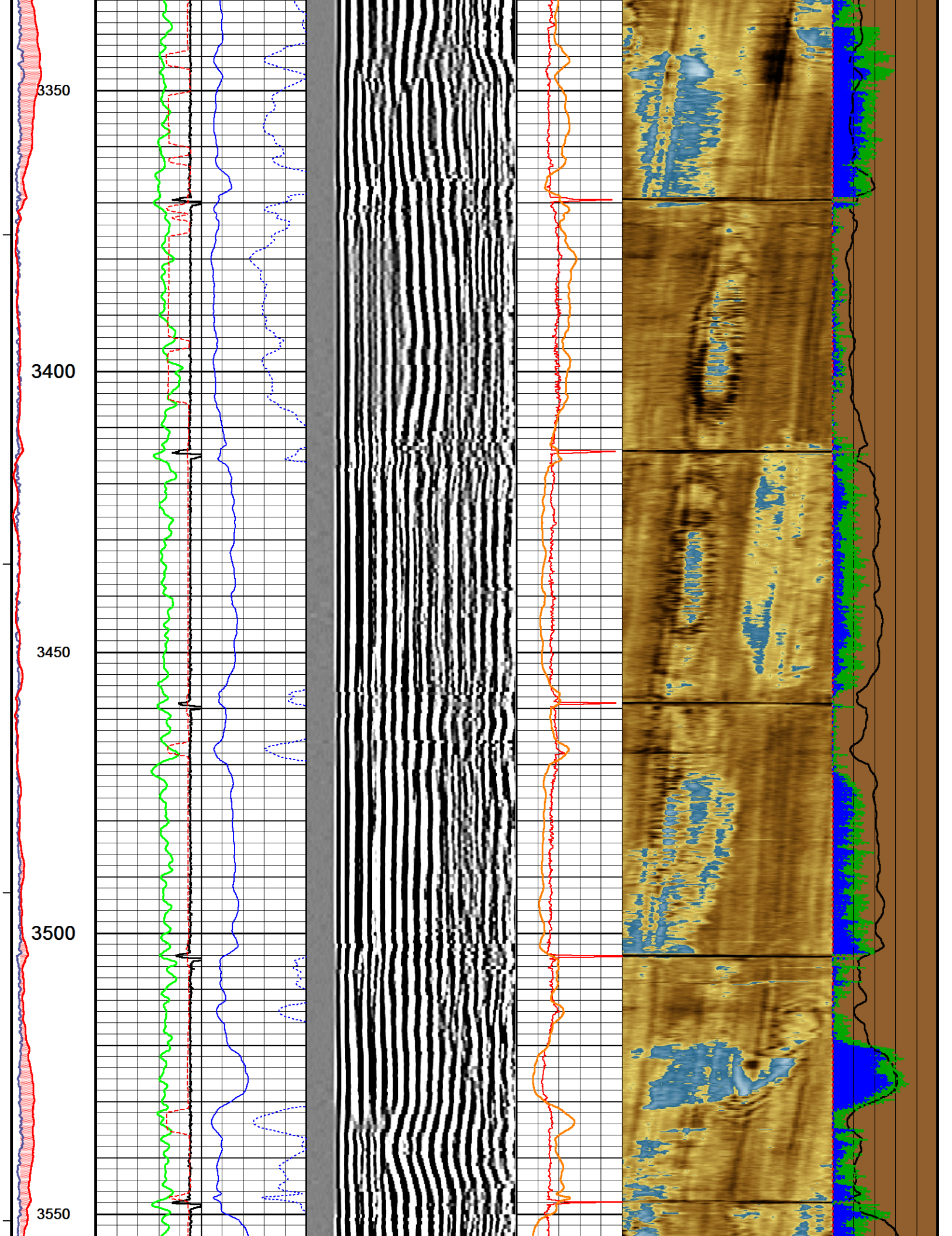


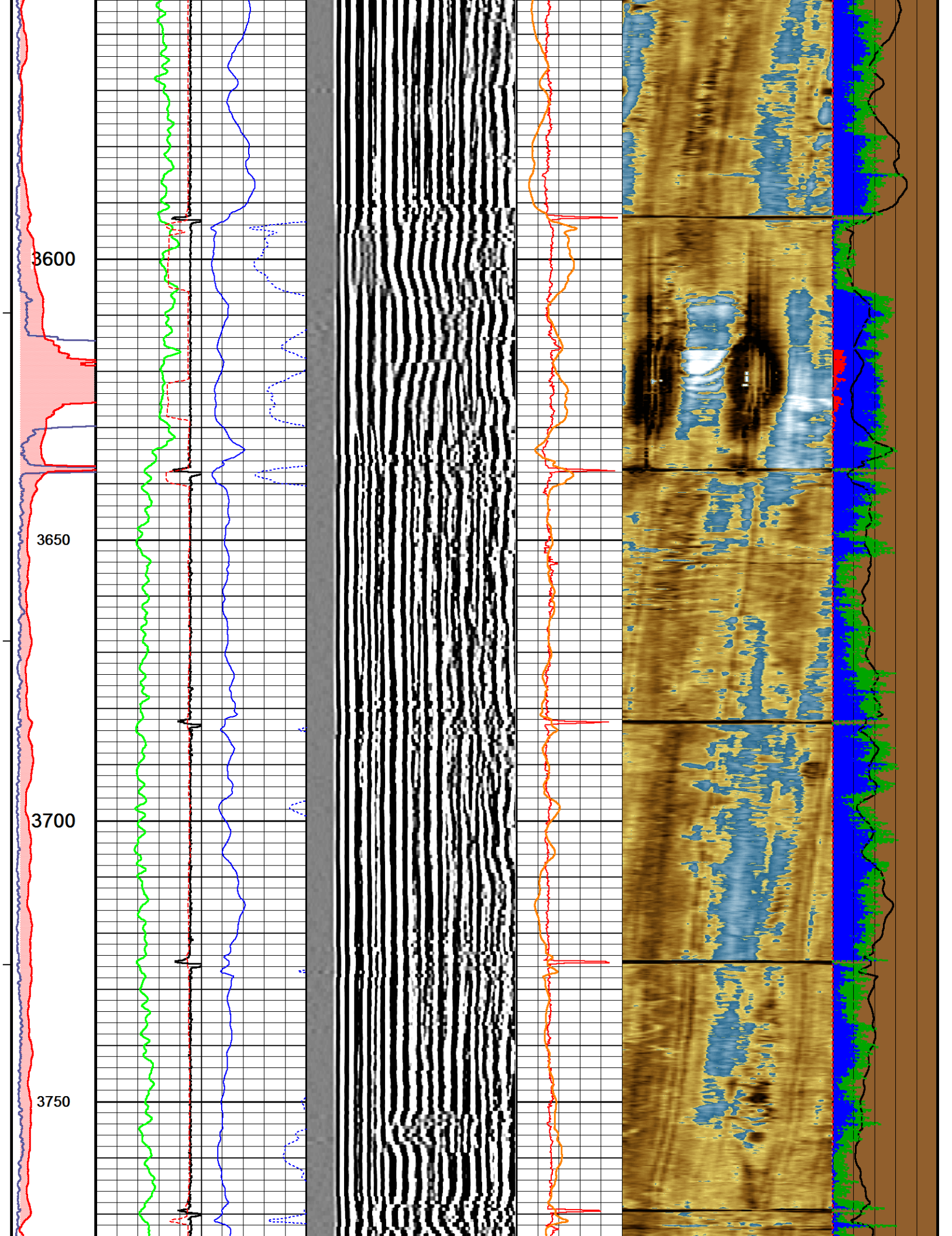


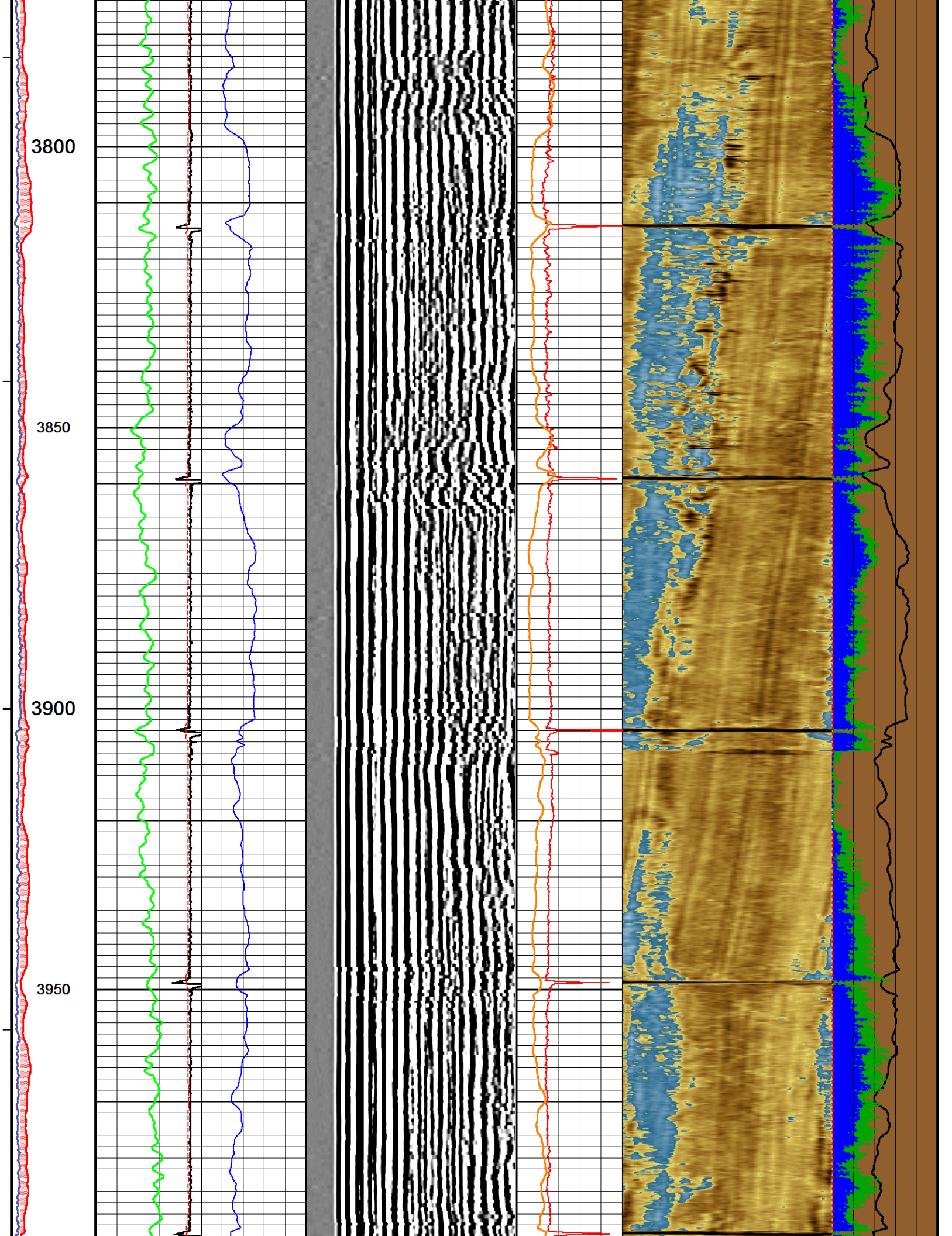


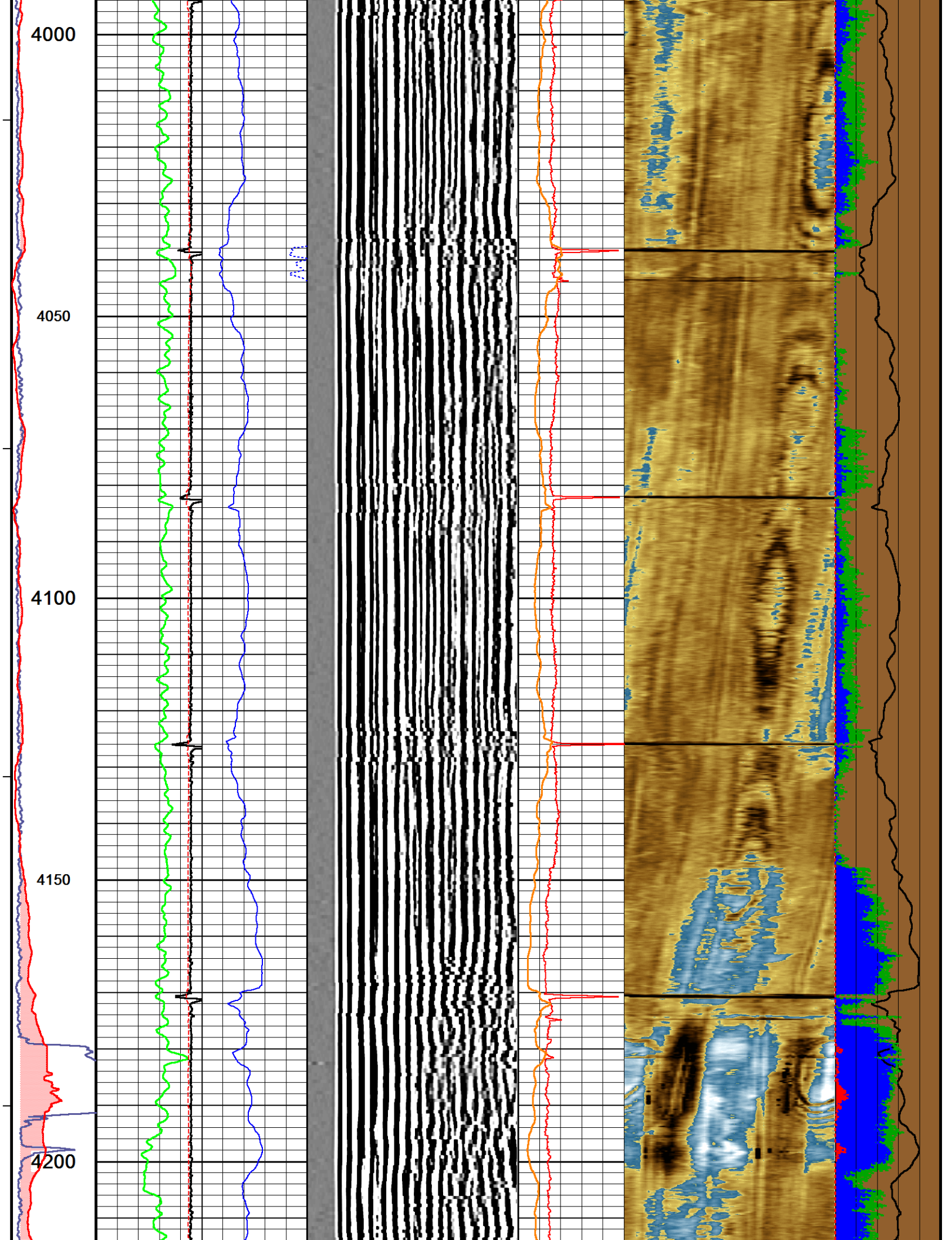


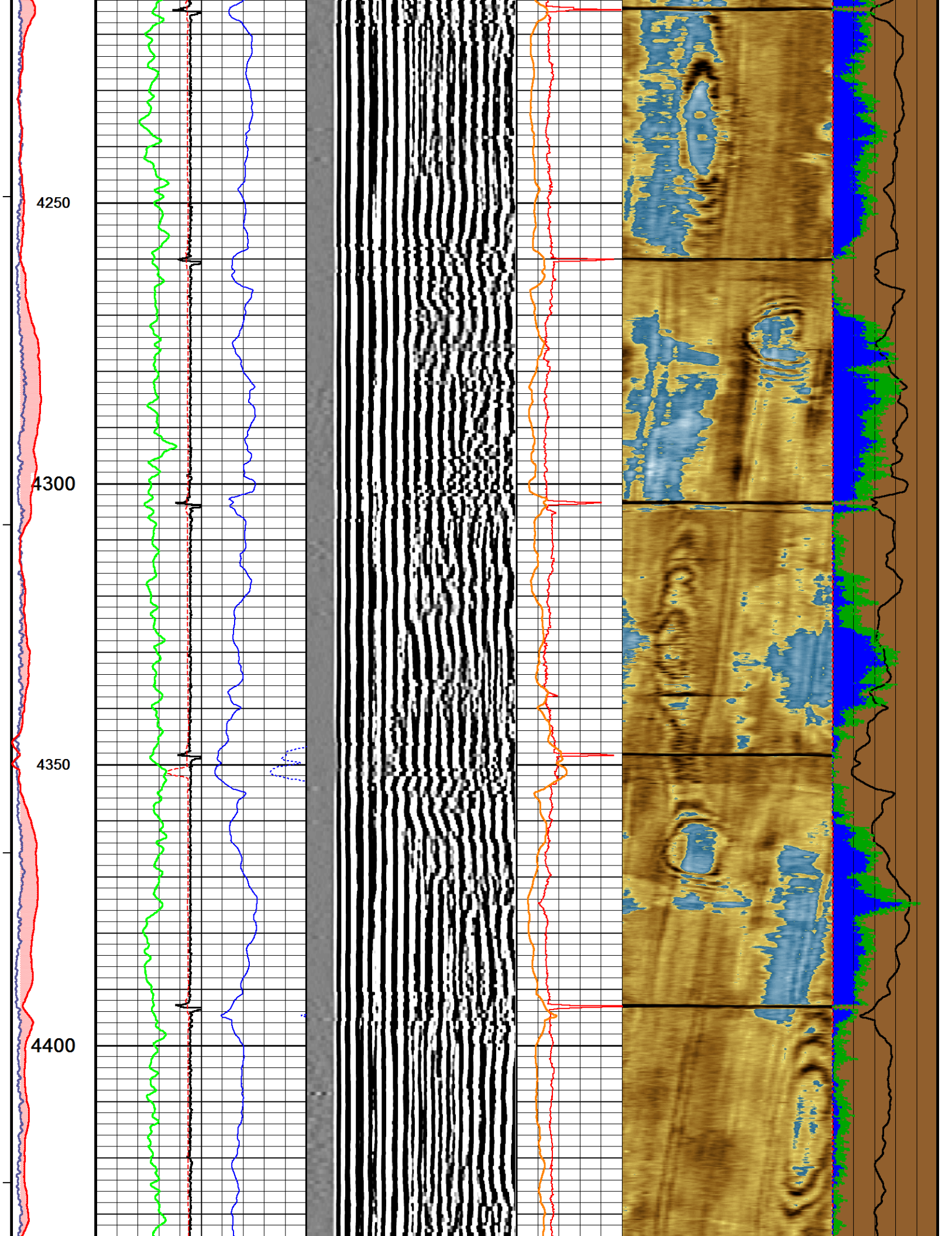


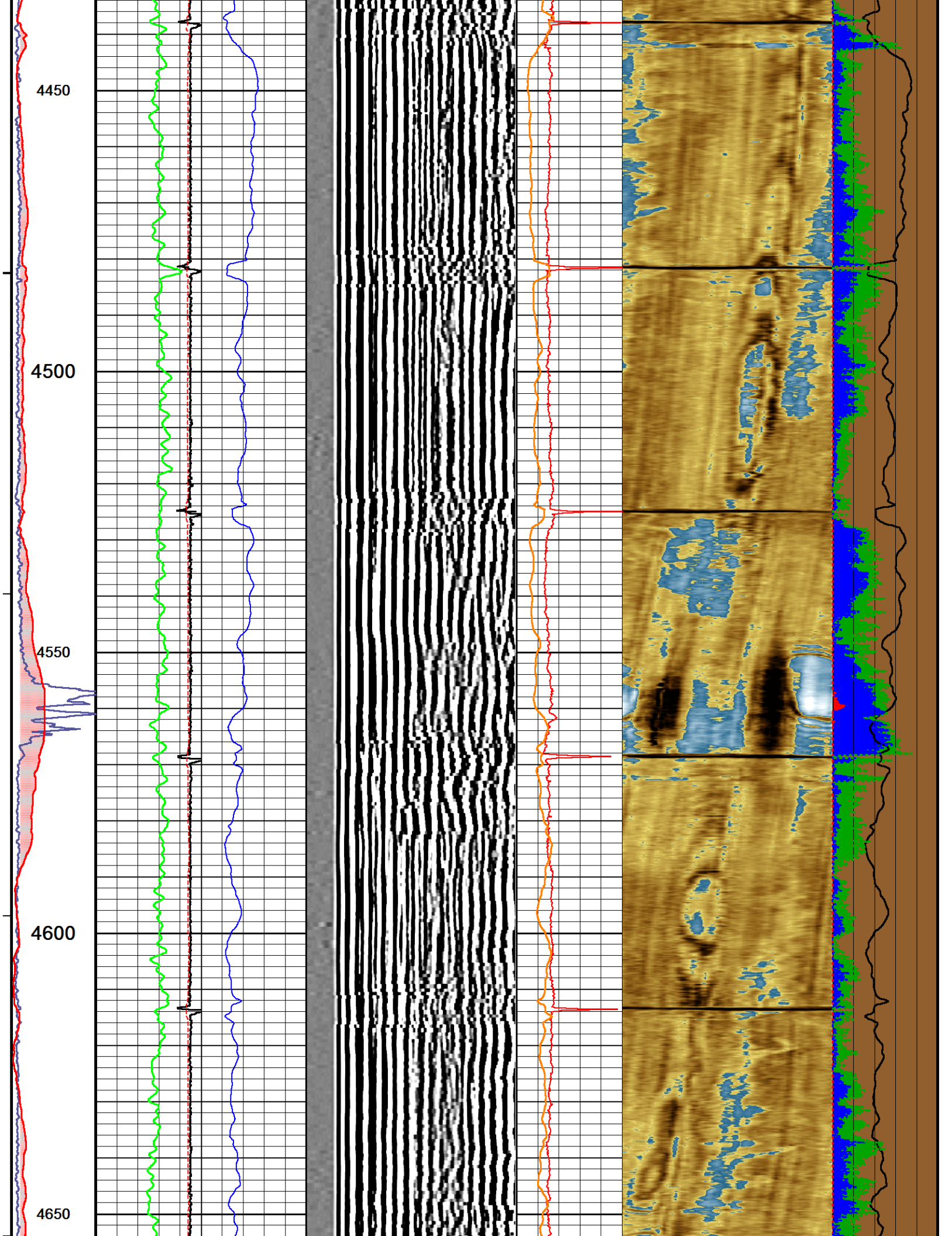


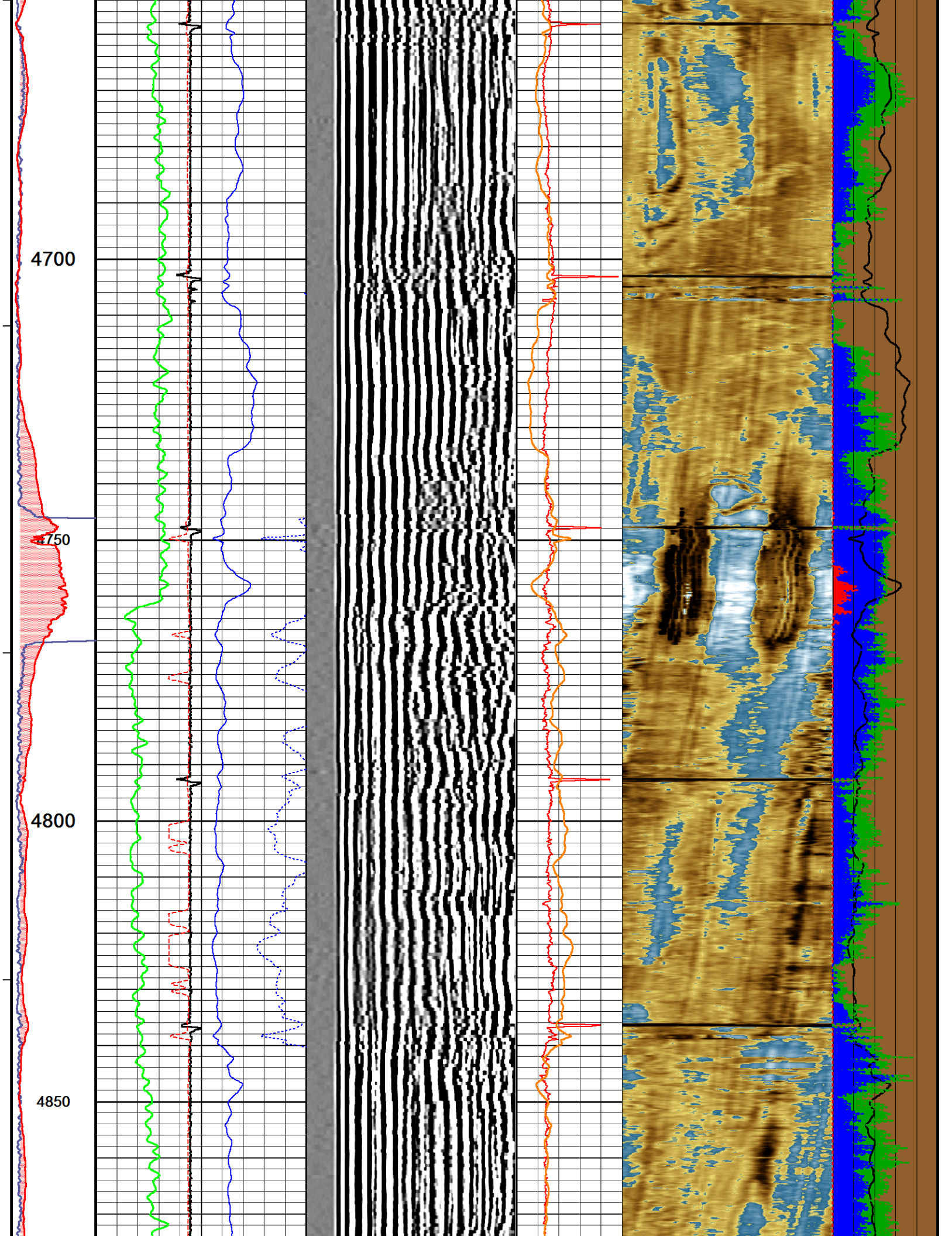


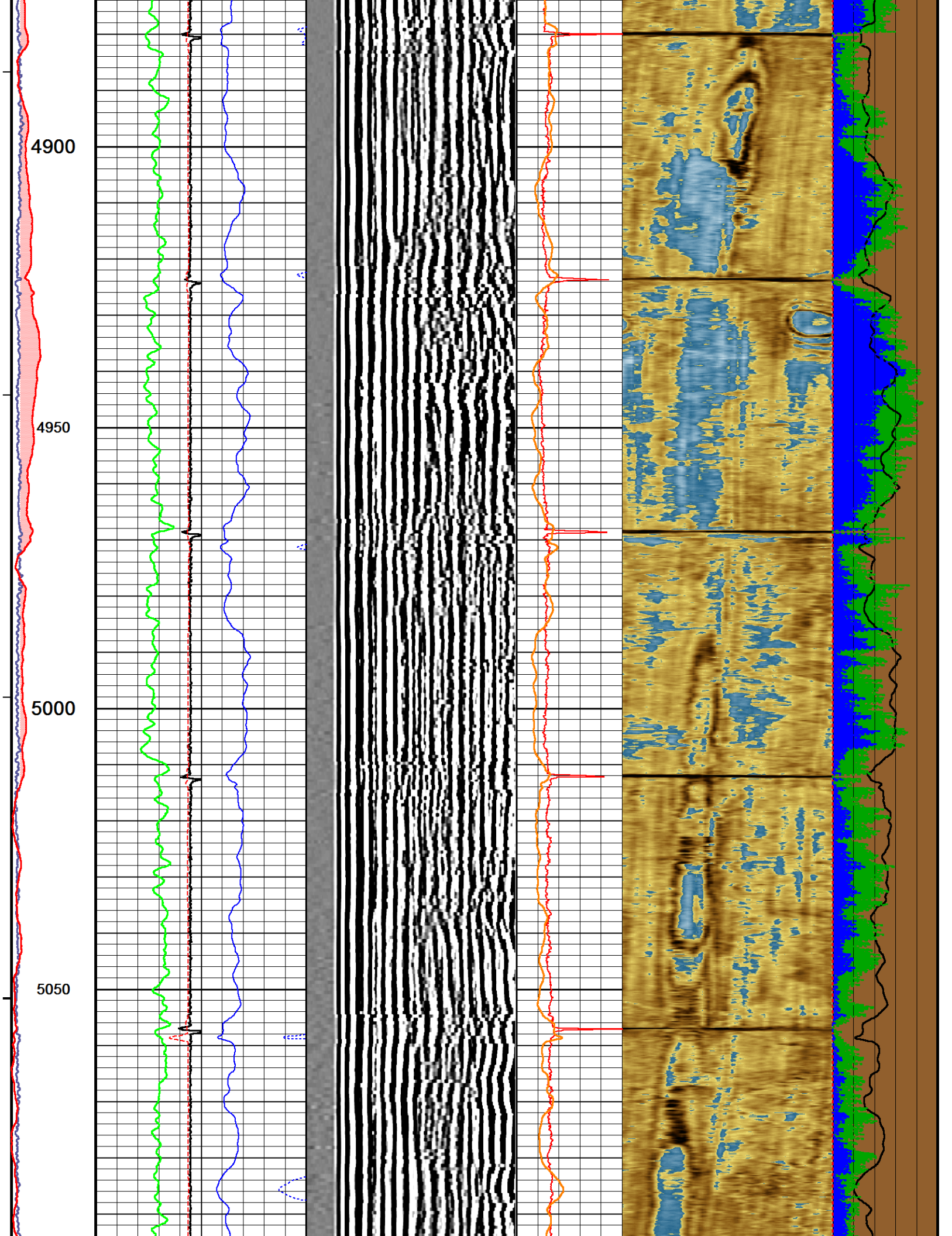


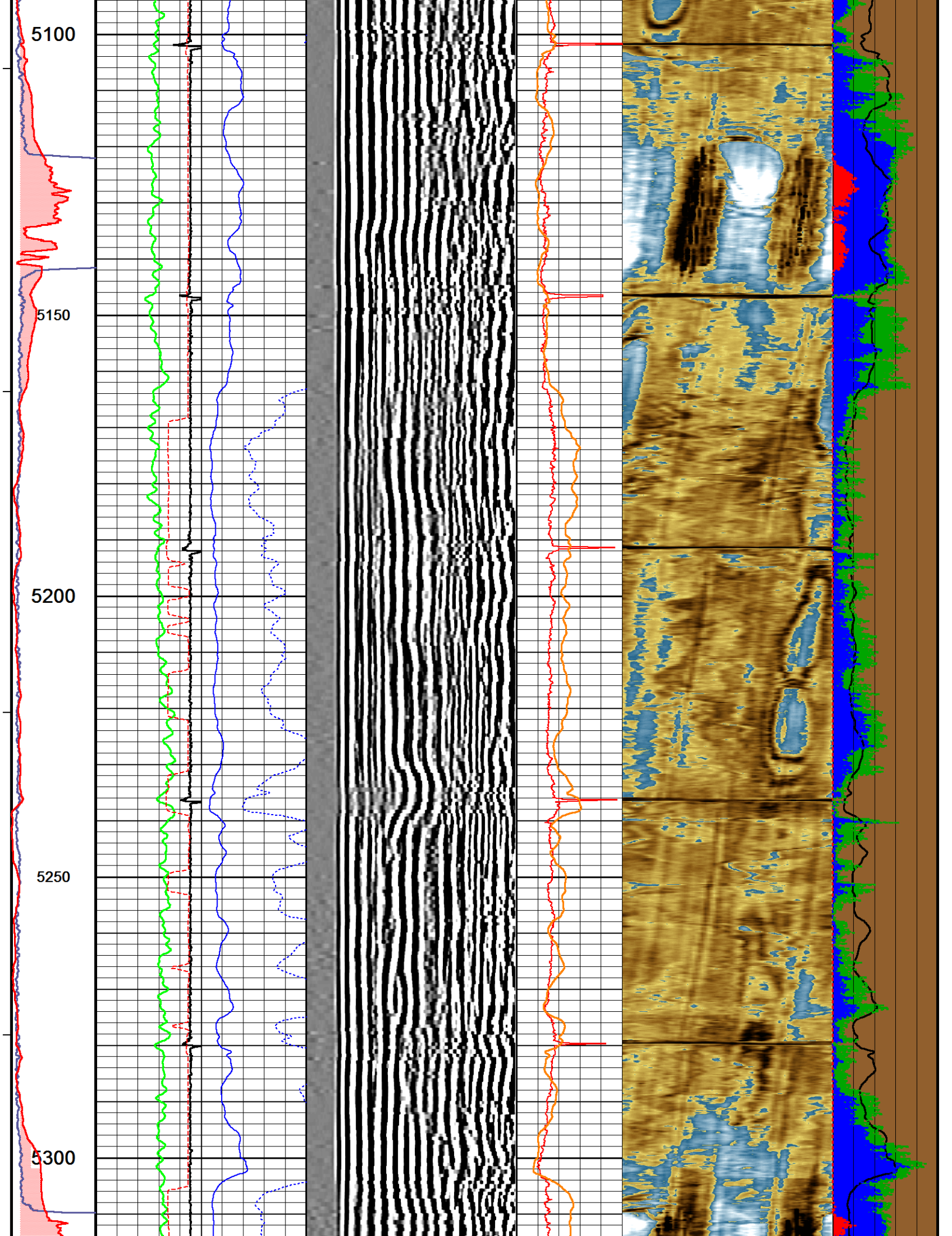


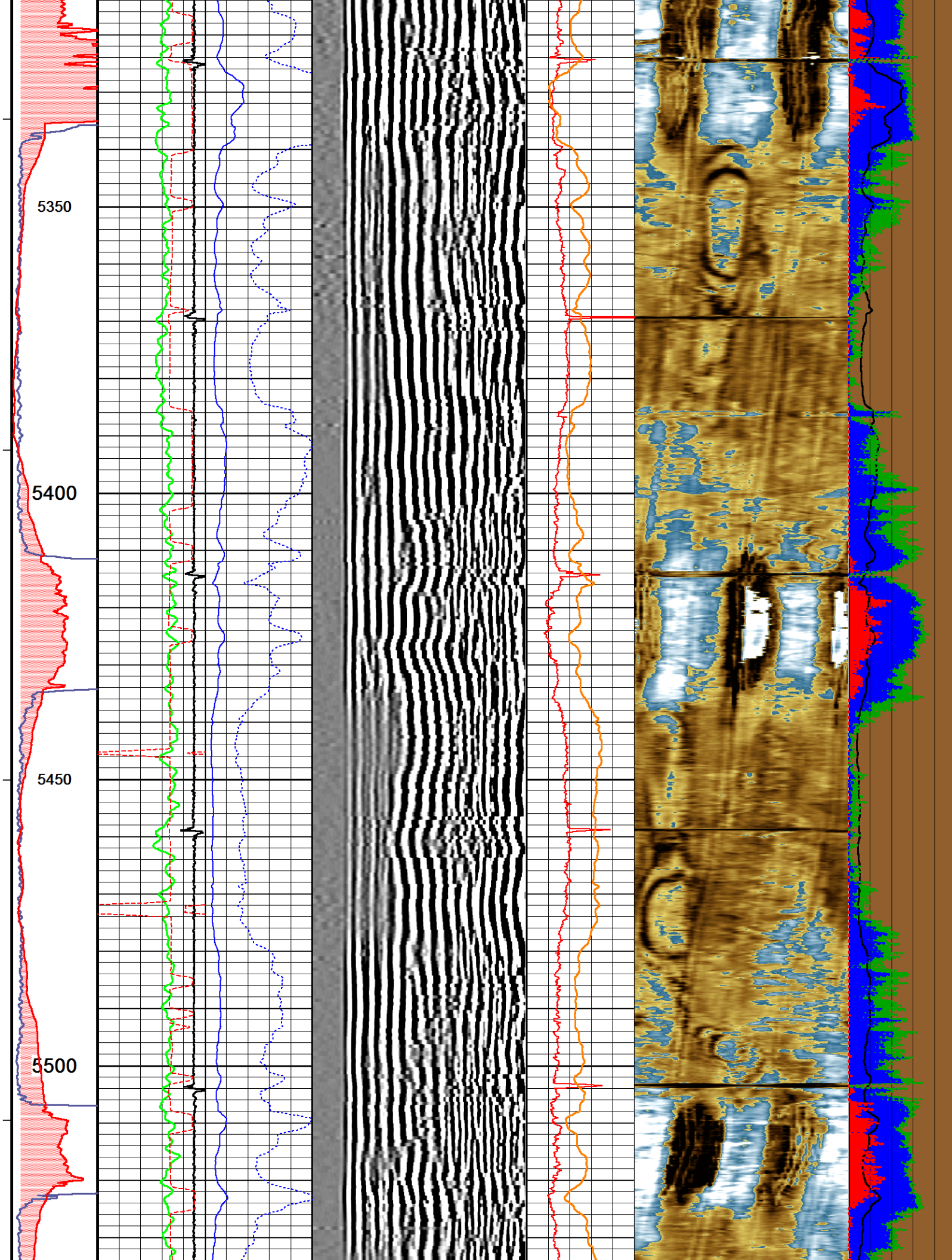


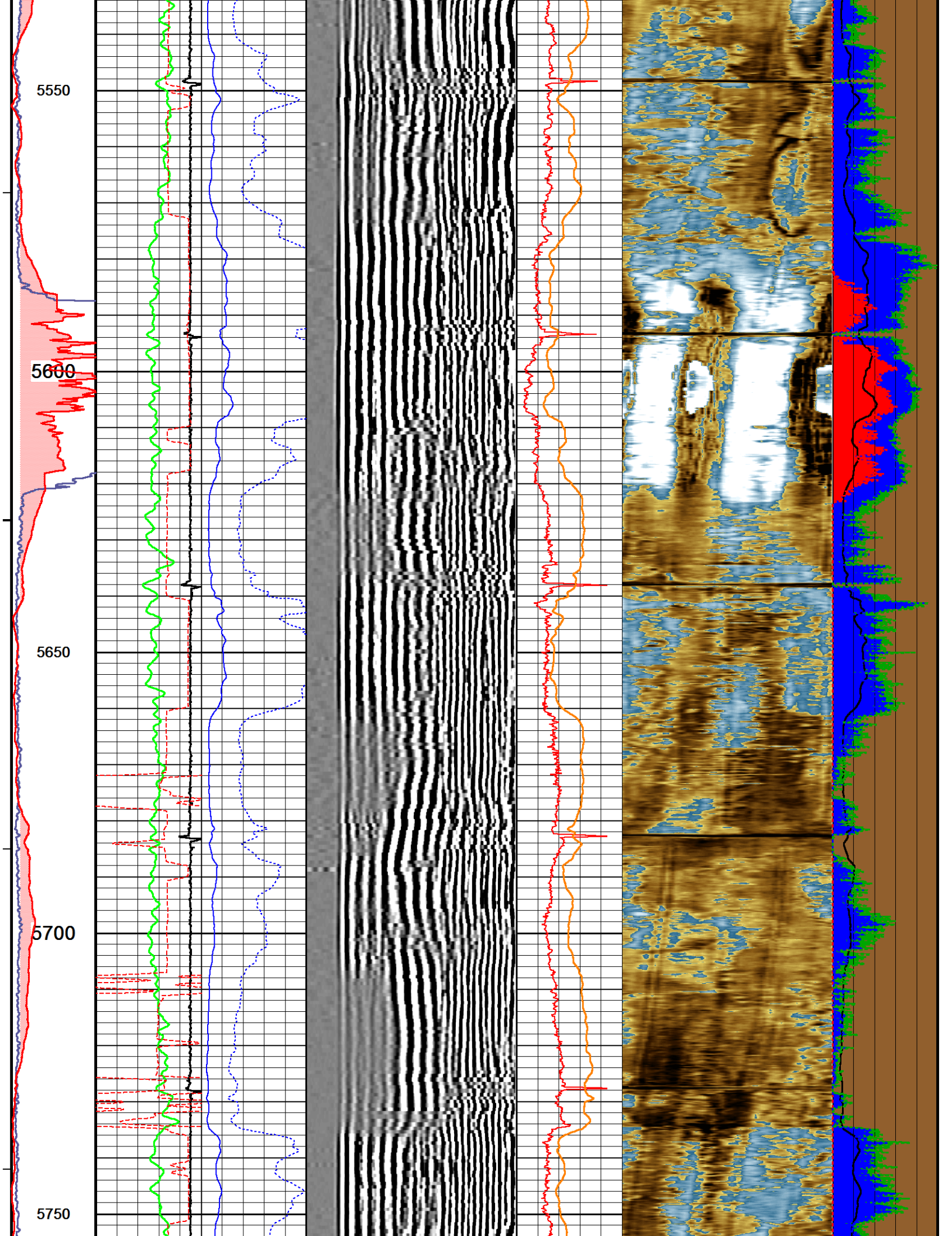


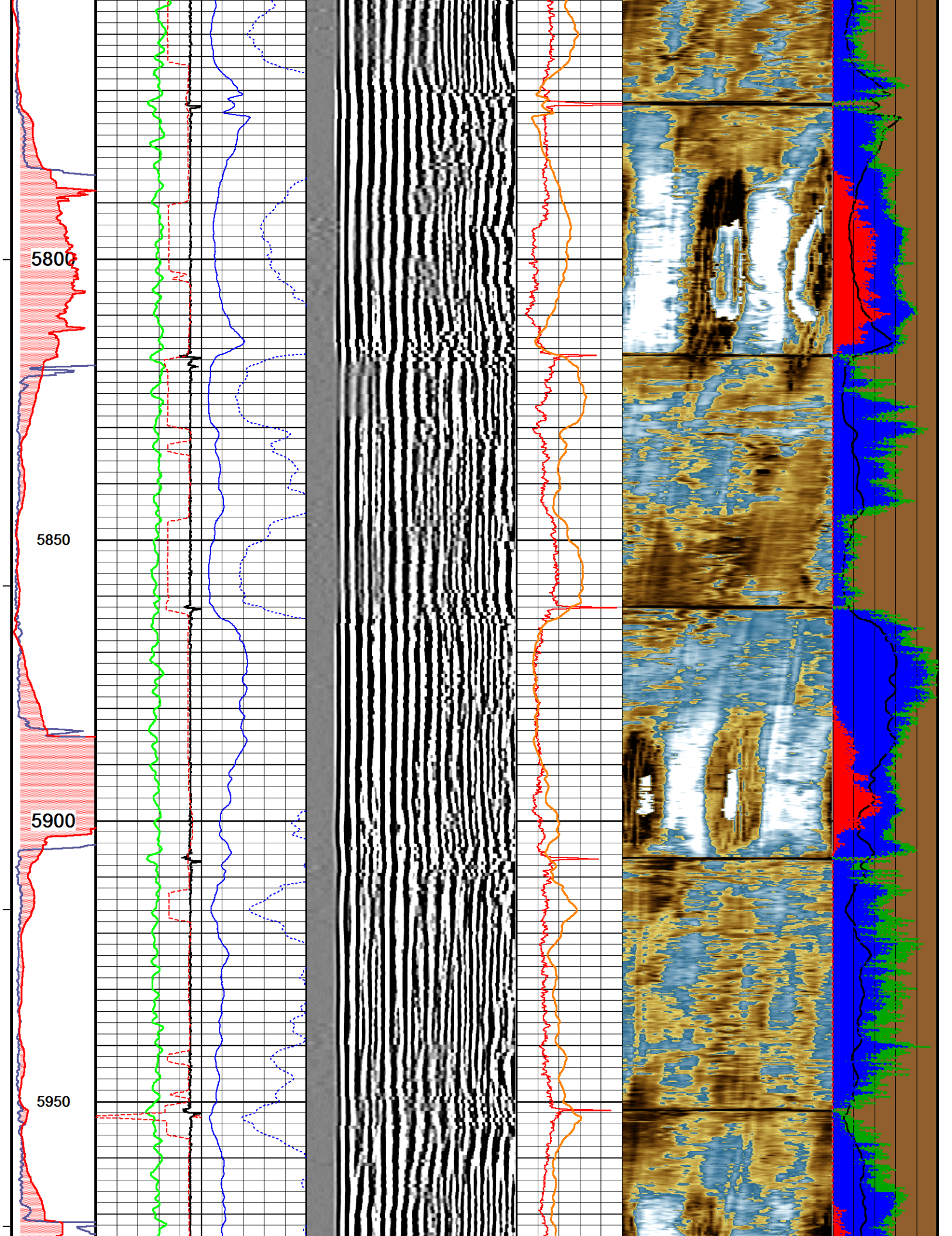


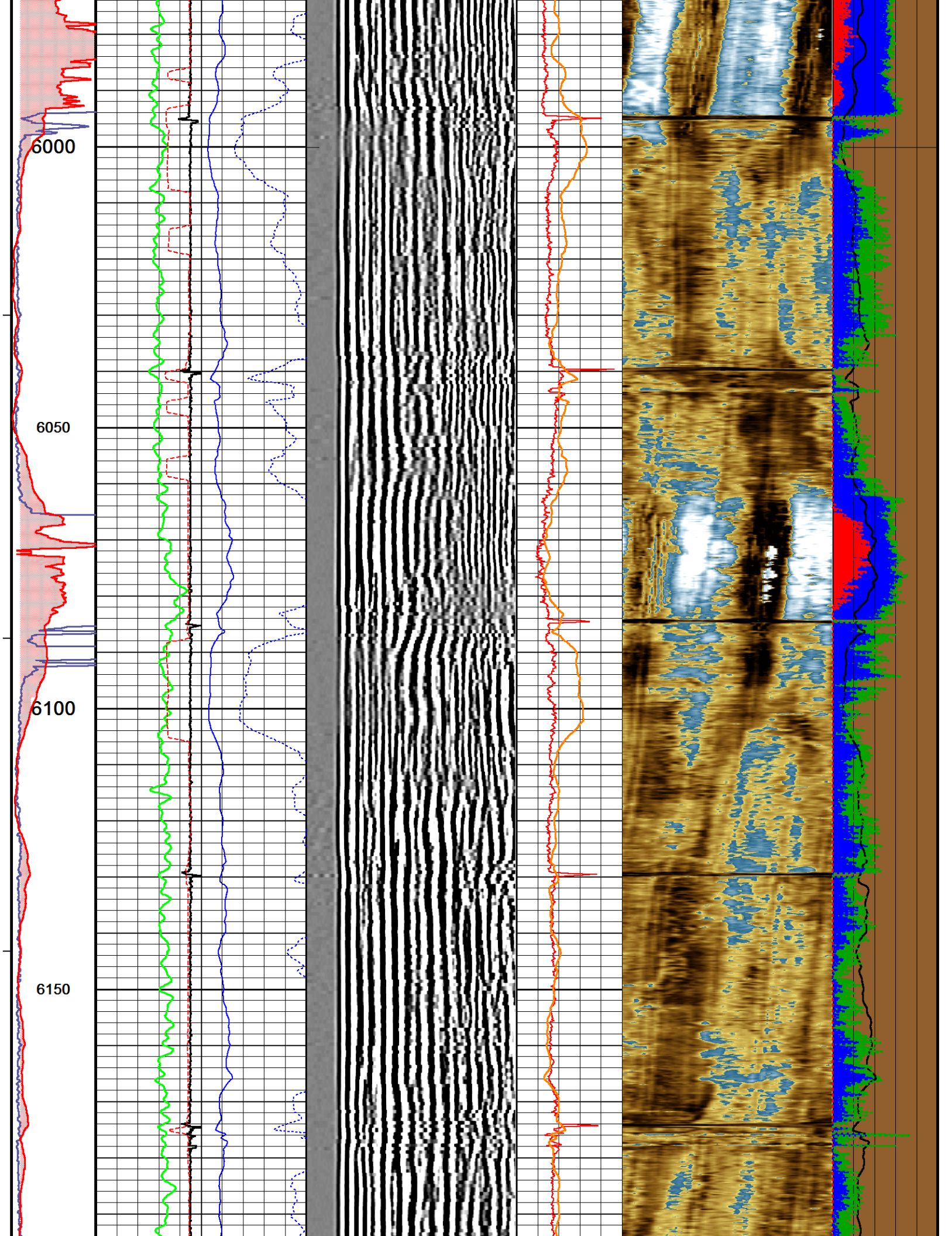


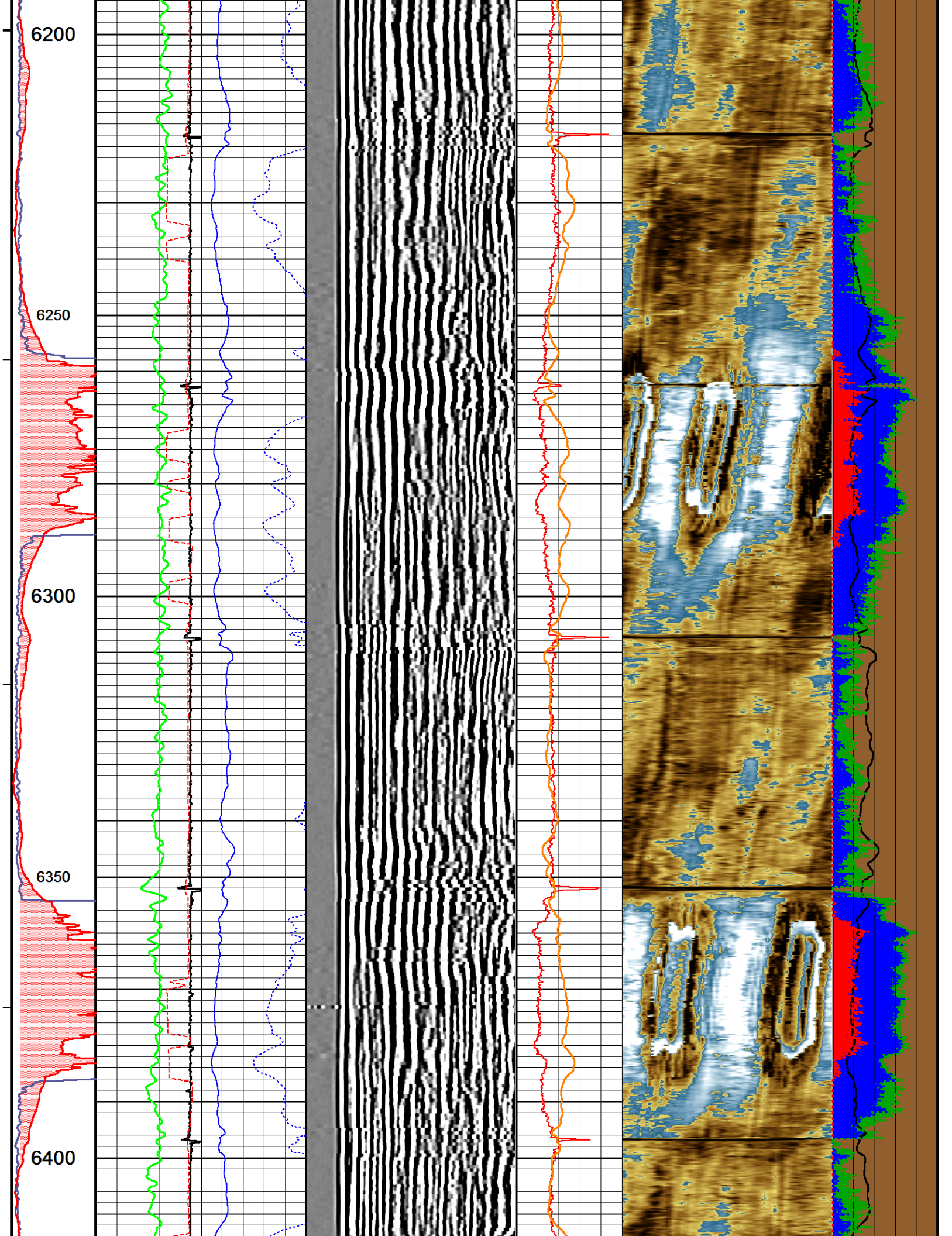


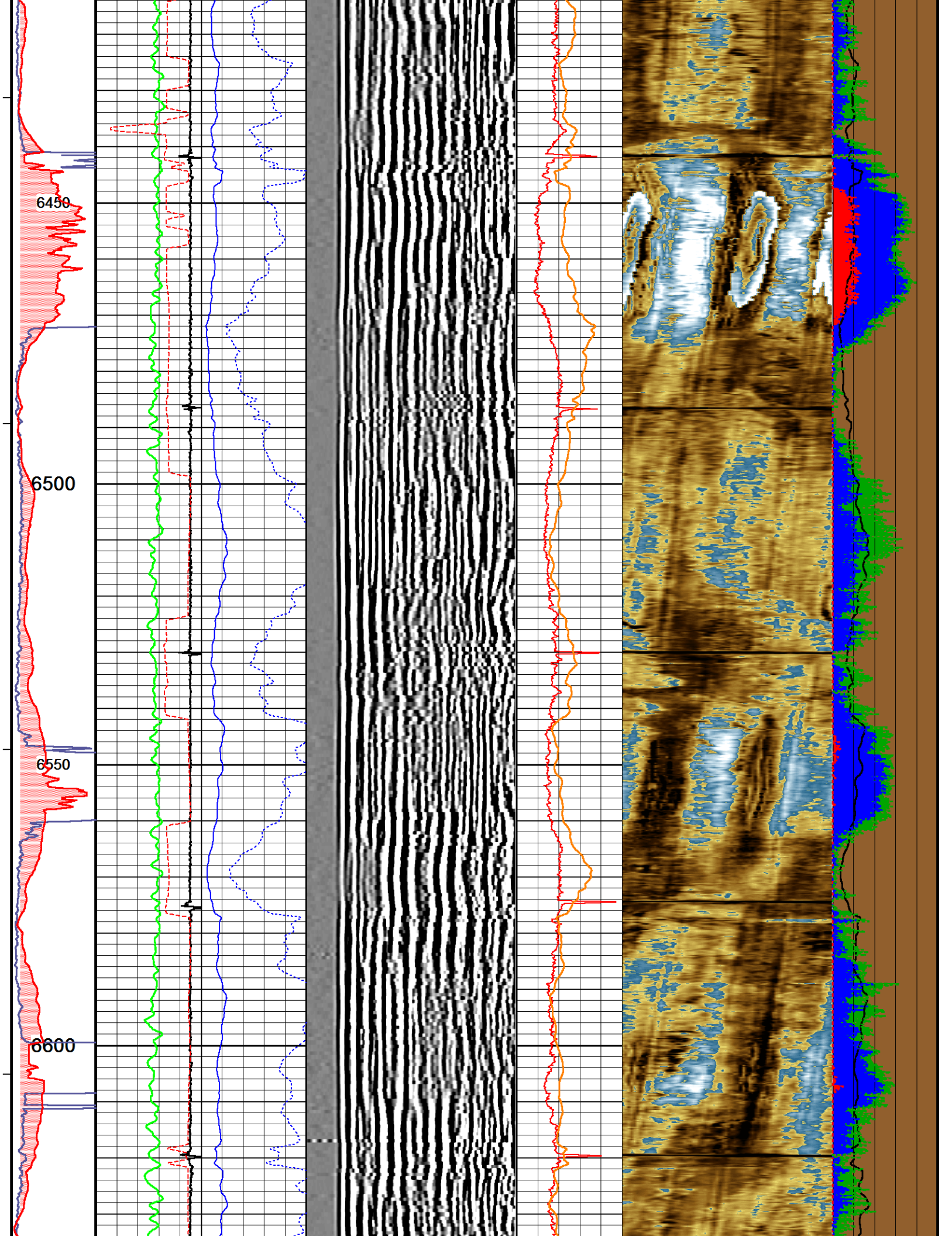


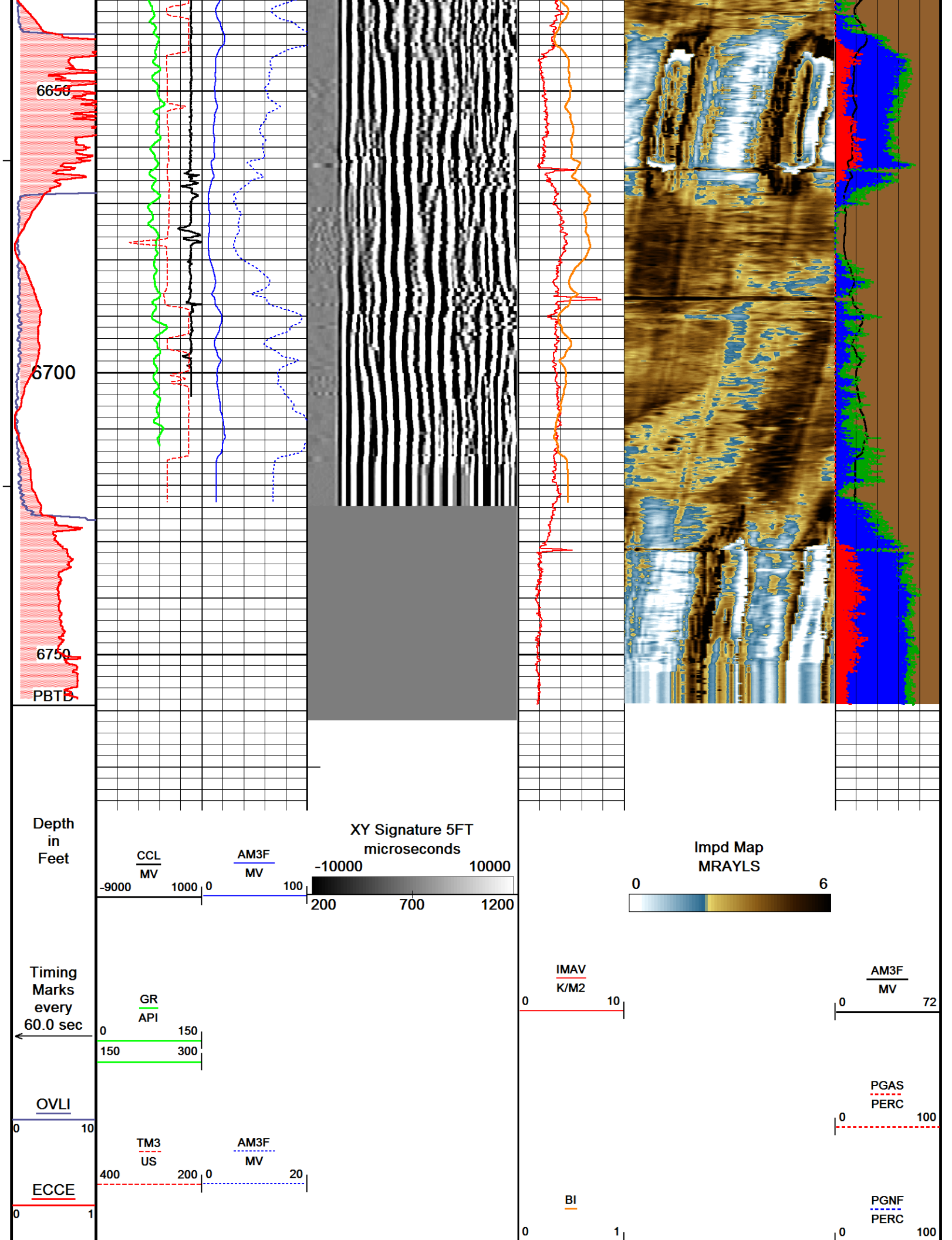












Replay
Scale
1:240

PCON
PERC

0 100

Depth Based Data - Maximum Sampling Increment 2.5cm

Plotted on 18-NOV-2016 10:58

Filename: C:\Users\le197426\Desktop\EXTRACTION\WIN...\WINDER SOUTH #6 MAIN PASS_001.dta

Recorded on 17-NOV-2016 22:11

System Versions: Logged with 16.05.3841 Processed with 16.05.3841 Plotted with 16.05.3841



MAIN PASS



REPEAT PASS



Depth Based Data - Maximum Sampling Increment 2.5cm

Plotted on 18-NOV-2016 10:58

Filename: C:\Users\le197426\Desktop\EXTRACTION\...\WINDER SOUTH #6 REPEAT PASS_001.dta

Recorded on 18-NOV-2016 10:15

System Versions: Logged with 16.05.3841 Processed with 16.05.3841 Plotted with 16.05.3841

Depth
in
Feet

XY Signature 5FT

microseconds

CCL
MV

AM3F
MV

-10000

10000

-9000 1000 0 100 200 700 1200

Impd Map
MRAYLS

0

6

Timing
Marks
every
60.0 sec

GR
API

IMAV
K/M2

AM3F
MV

0 150 150 300

0 10

0 72

OVLI

0 10

TM3
US

AM3F
MV

PGAS
PERC

400 200 0 20

0 100

ECCE

0 1

BI

0 1

PGNF
PERC

0 100

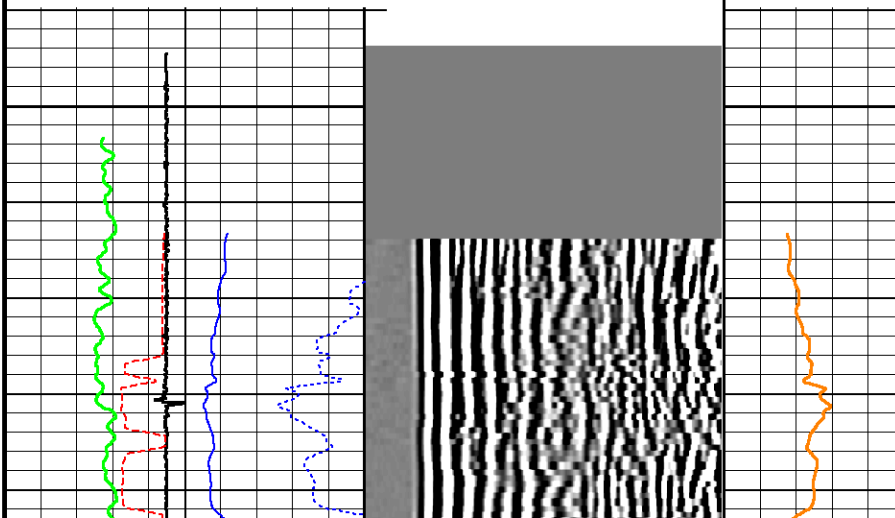
Replay
Scale
1:240

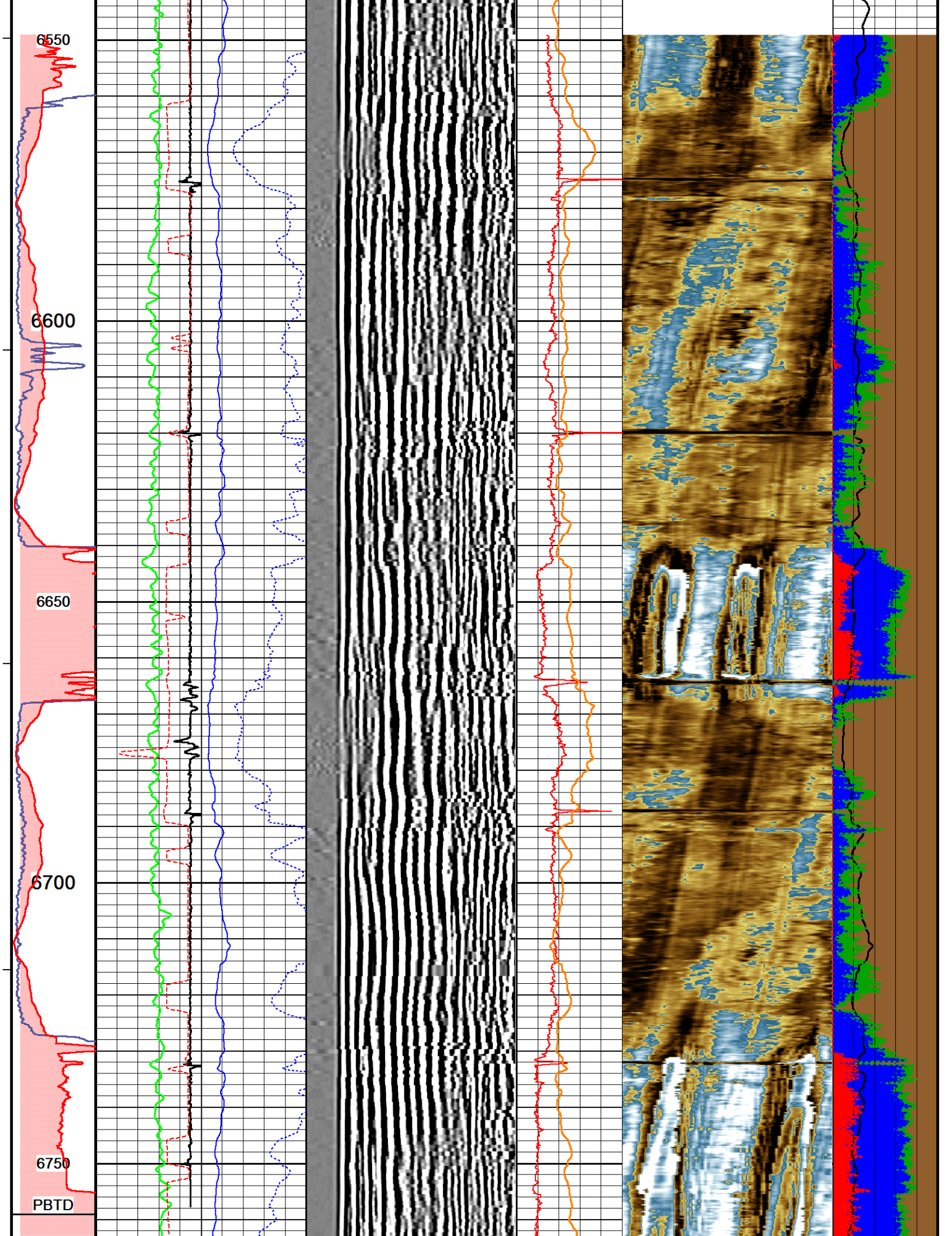
PCON
PERC

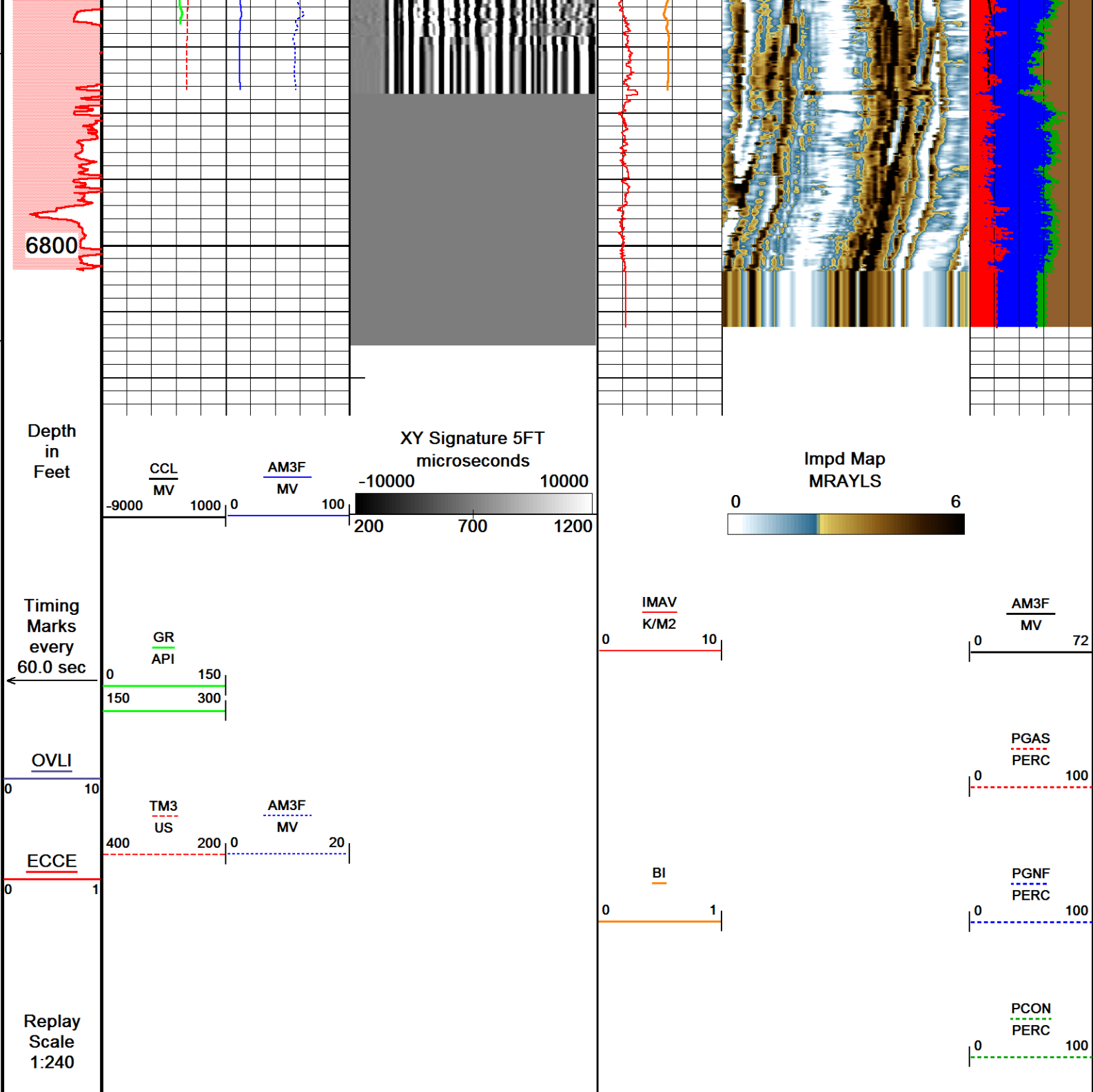
0 100

6492

6500







Depth Based Data - Maximum Sampling Increment 2.5cm
Filename: C:\Users\le197426\Desktop\EXTRACTION\...WINDER SOUTH #6 REPEAT PASS_001.dta
System Versions: Logged with 16.05.3841 Processed with 16.05.3841 Plotted with 16.05.3841

↑ REPEAT PASS ↑

SHOP AND FIELD CALIBRATIONS
C:\Users\le197426\Desktop\EXTRACTIONWINDER SOUTH #6\WINDER SOUTH #6 MAIN PASS_001.dta
UGR Field Survey cal UGR-JD 223
Field calibration on 03-NOV-2016 11:17
Gamma Ray Field Survey Calibration

Tool Type: UGR-JD
Calibrator No: TH 047

Serial No: 223

Background	Calibrator	Standard	Units
------------	------------	----------	-------

89.3	548.2	155.0	CPS
------	-------	-------	-----

Delta Counts Per Sec: 458.9 CPS/API = 2.961

CBT Field Calibration CBT-AA 101

Field Calibration on 08-NOV-2016 08:11

Cement Bond Tool Amplitude Field Calibration

Tool Type	CBT-AA	Serial No	101
-----------	--------	-----------	-----

Free Pipe Depth

Sensor	Description	Standard(mv)	Measured(mv)
AMP 3 FT	100 % Bond	1.80	0.00
	Free Pipe	55.00	444.54
AMP 5 FT	100 % Bond	1.20	0.00
	Free Pipe	36.00	408.30

CBT Constants CBT-AA 101

Last Edited on 17-NOV-2016 22:10

Min Ampl 100% Bond	2.00 MV
Max Ampl 0% Bond	90.00 MV
Cement Cmpr Strength	580 PSI
Casing Size	5.50 IN
Casing Weight	20.0 LB/F
Casing Velocity	57.00 US/F
DT Fluid	187.0 US/F
Maximum Attenuation	12.00 DB/F
3' TT Correction	0.0 US
Cement Weight	0.00 LB/G

Ultrasonic Radial Scanner Before Cal USH-AB 136

Field Calibration on 15-NOV-2016 08:41

Ultrasonic Radial Scanner Before Calibration

Tool Type	USH-AB	Serial No	136
-----------	--------	-----------	-----

	Measured	Minimum	Maximum	
Free Pipe	-999.250	0.000	0.000	K/M2
Mud Impedance	1.500	0.000	0.000	K/M2

URS Constants USH-AB 136

Last Edited on 17-NOV-2016 22:10

*** Well Information ***

** NOTE **

If `Use General Settings` is set to `OFF`, the `ZHead cal` and `ZMud cal` values will be obtained from `Depth Specific Settings` entry

** General Settings **

Use General Settings ON
ZHead Cal Area Ratio 3.85
ZMud Cal Area Ratio 3.90

** Depth Specific Settings **

Dpth Intvl Min(F)	Dpth Intvl Max(F)	Cs Sz (IN)	Cs WT (LB/G)	ZHd cal ARatio	ZMd cal ARatio	Thk (IN)	Harmnc K Factor
0.00	1560.00	5.50	36.00	1.50	1.50	0.36	1.00
0.00	17075.00	5.50	20.00	1.50	1.50	0.36	1.00

** Constants **

Thickness calculated from Tool
Radius Offset 0.00
Mud slowness Offset 0.00 US/F
Mud Chamber Equation Mud Plate
Z_mud at Calibration 1.60 K/M2
Z_mud outside 1.70 K/M2
Gas Impedance Cutoff 0.38 K/M2
Fluid Impedance Cutoff 2.30 K/M2
Contam Impedance Cutoff 2.70 K/M2
Relative Bearing Rotate OFF
RB Offset Angle 0.00 DEG
Cement Density 14.00 LB/G

DOWNHOLE EQUIPMENT

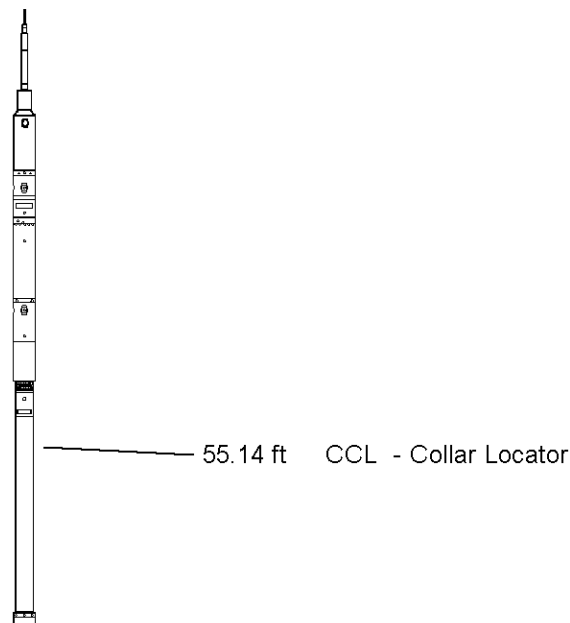
C:\Users\le197426\Desktop\EXTRACTION\WINDER SOUTH #6\WINDER SOUTH #6 MAIN PASS_001.dta

Mono-Cablehead
MCH-AA 0 LG: 1.03 ft WT: 2.2 lb OD: 1.457 in

Crossover 1-pin to 55-pin for WCC-D
XOV-WC 128 LG: 1.05 ft WT: 15.4 lb OD: 3.386 in

Swivel Head 55 pin
SWH-CC 173 LG: 2.72 ft WT: 77.2 lb OD: 3.346 in

Casing Collar Locator, 55 pin
CCL-WA 142 LG: 3.01 ft WT: 19.8 lb OD: 2.756 in



Communication Cartridge 55pin 3-3/8in

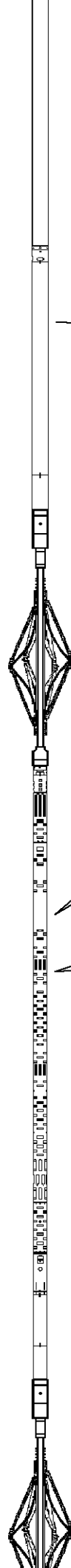
WCC-DA 125 LG: 4.60 ft WT: 63.9 lb OD: 3.386 in

Gamma Ray
UGR-JD 223 LG: 4.60 ft WT: 81.6 lb OD: 3.386 in

55 pin Roller Centralizer
CEN-XA 162 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

Cement Bond Tool
CBT-AA 101 LG: 10.75 ft WT: 163.1 lb OD: 3.386 in

55 pin Roller Centralizer
CEN-XA 222 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in



47.05 ft GR - Gamma Ray

36.70 ft AM3F - Amplitude 3FT

36.70 ft TM3 - Travel Time 3FT

35.70 ft TM5 - Travel Time 5FT

35.70 ft XY5 - XY Signature 5FT

Flexible Joint, URS, 55 Pin
FTP-FA 131 LG: 4.35 ft WT: 90.4 lb OD: 3.386 in

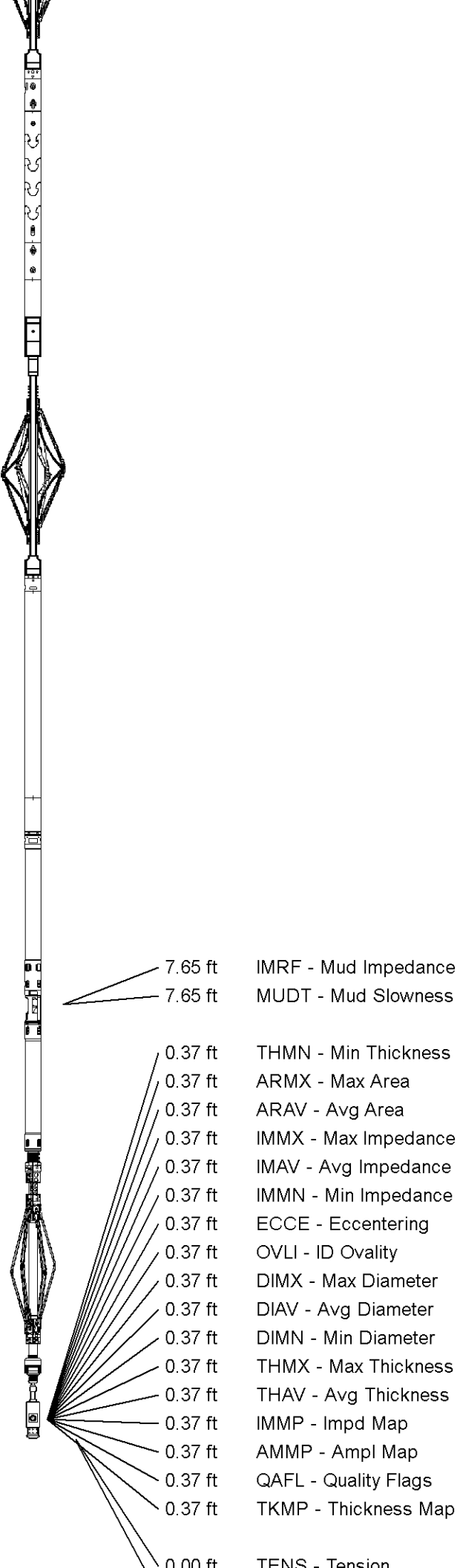
55 pin Roller Centralizer
CEN-XA 221 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

URS Electronics Cartridge
UCC-AA 194 LG: 4.51 ft WT: 79.4 lb OD: 3.386 in

URS Sonde Section
USS-AB 178 LG: 9.65 ft WT: 167.6 lb OD: 3.386 in

Ultrasonic Radial Scanner Head A
USH-AB 136 LG: 1.03 ft WT: 13.2 lb OD: 3.386 in

Total Length: 60.78 ft Weight: 1031.8 lb



0.00 ft TENS Tension
Tool Zero (0.00ft from bottom)

All measurements relative to tool zero.

COMPANY	EXTRACTION OIL & GAS
WELL	WINDER SOUTH #6
FIELD	WATTENBERG
PROVINCE/COUNTY	WELD
COUNTRY/STATE	USA / COLORADO

Elevation Kelly Bushing	0	feet	Bottom Log Interval	6759.00	feet
Elevation Drill Floor	0	feet	Depth Driller		feet
Elevation Ground Level	0	feet	Depth Logger	6759.00	feet



SECUREVIEW
ULTRAVIEW / BONDVIEW
CEMENT ANALYSIS

Weatherford®