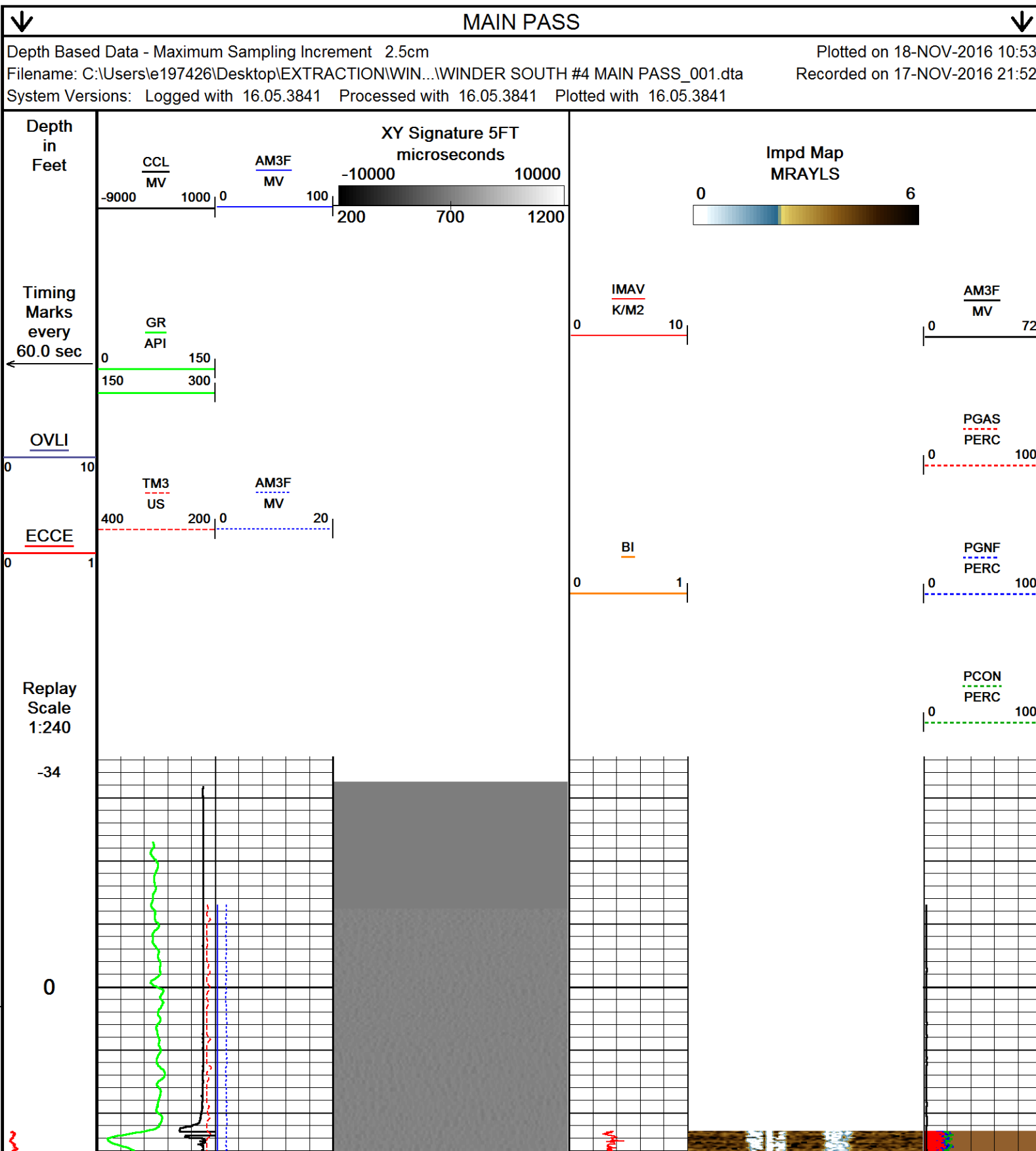
										<div>SECUREVIEW</div> <div>ULTRAVIEW / BONDVIEW</div> <div>CEMENT ANALYSIS</div>									
COMPANY										EXTRACTION OIL & GAS									
WELL										WINDER SOUTH #4									
FIELD										WATTENBERG									
PROVINCE/COUNTY										WELD									
COUNTRY/STATE										USA / COLORADO									
LOCATION										SE NE 9-6N-67W									
SEC 9		TWP 6N		RGE 67W		Other Services													
Latitude																			
Longitude																			
API Number		05-123-39577																	
Permanent Datum GROUND, Elevation feet																			
Log Measured From KB										Elevations: KB 0.00 DF 0.00 GL 0.00									
Drilling Measured From KB																			
Date					15-NOV-2016					PERFORATION RECORD									
Run Number					ONE					Shot		Number		Depth From		Depth To			
Service Order					7145-166433315					Density		of Shots		feet		feet			
Type Log					URS / CBT														
Depth Driller																			
Depth Logger					6673.00														
Top Log Interval					0.00														
Bottom Log Interval					6660.00														
Hole Fluid Type					WATER														
Hole Fluid Level					105.00														
Restriction ID					4.778					Gun Type									
Max Recorded Temp					198.00					Gun Size									
Well Head Pressure					0.00					psia									
Well Head Equipment					NONE					Size		Weight		Depth From		Depth To			
Time Well Ready					ON ARRIVAL					inches		pounds/ft		feet		feet			
Time Logger Bottom					19:30					9.625		36.00		0.00		1556.00			
Unit					14338					5.500		20.00		0.00		16860.00			
Equipment Name					WSS-E														
Base					CASPER														
Recorded By					K.HUSETH														
Witnessed By					NOT WITNESSED														

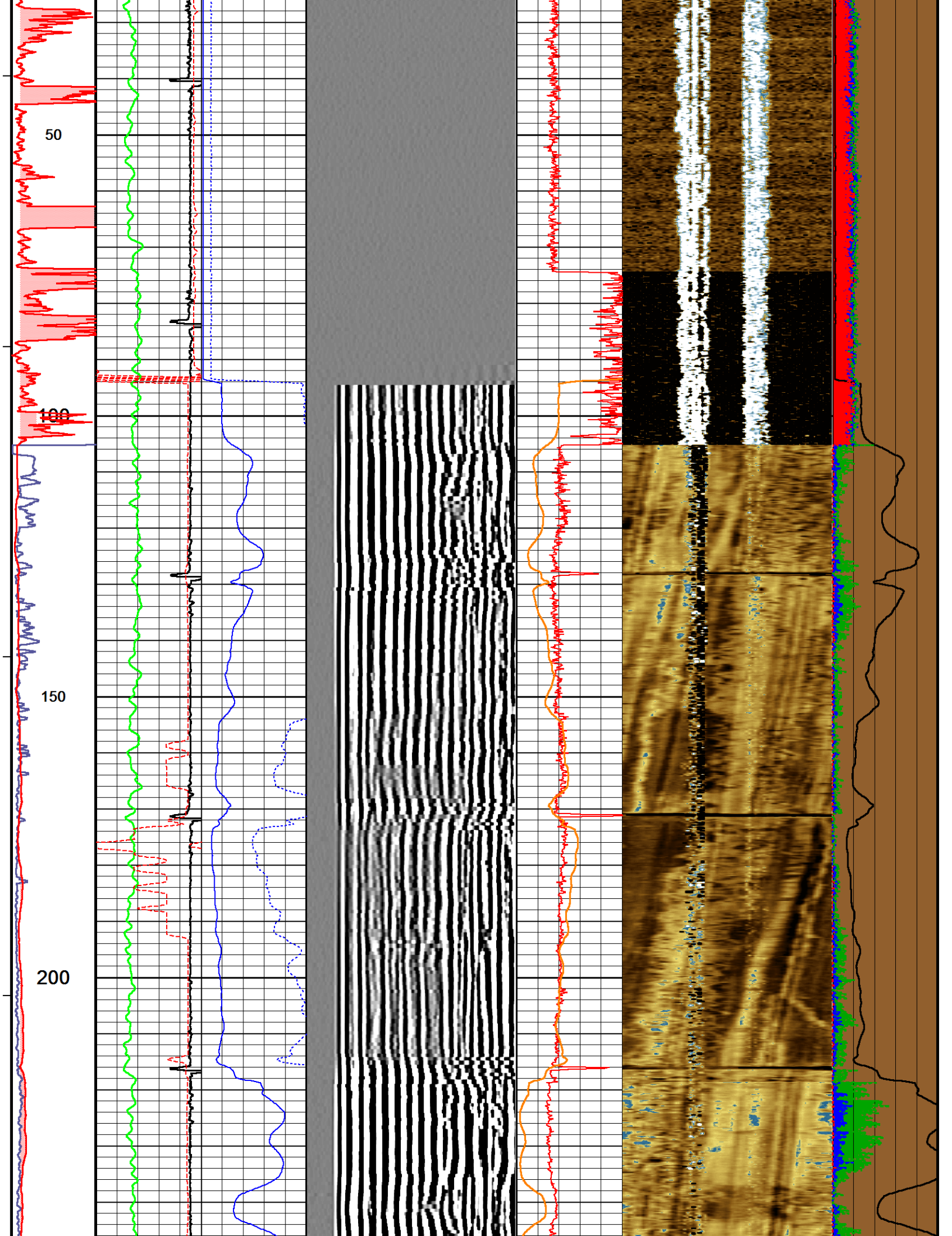
CASING / TUBING RECORD						
Type	Grade	TypeJoint	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE			9.625	0.00	1556.00	36.00
PRODUCTION	P-110		5.500	0.00	16860.00	20.00

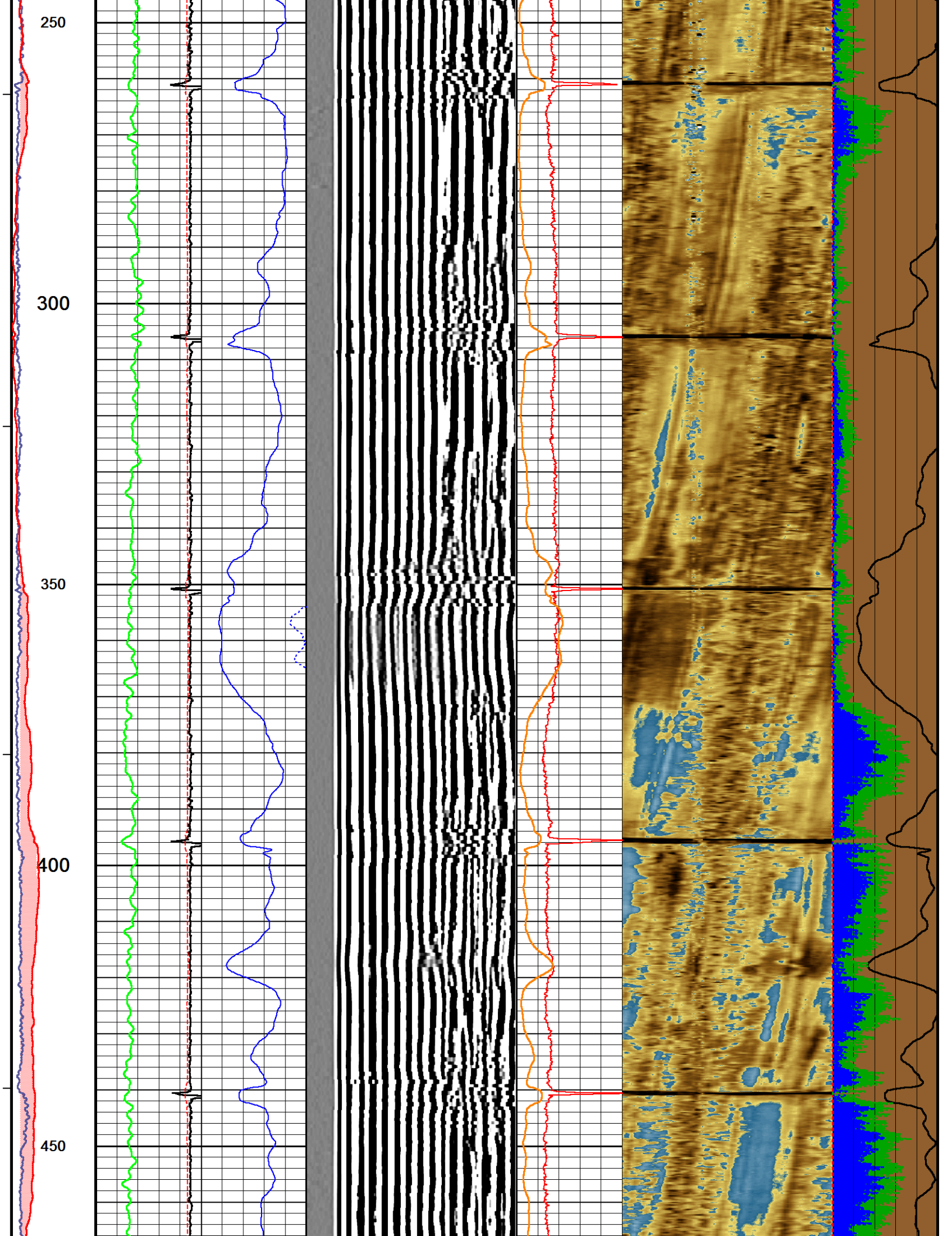
REMARKS
ULTRASONIC RADIAL SCANNER LOG CORRELATED TO RIG KB @ 25 FT ABOVE GROUND LEVEL CEMENTING DATA: LEAD: ELASTICEM 150 SACKS, 13.2LB/GAL, 1.57FT^3/SACK TAIL: ELASTICEM W/ SUPER CBL, 2100 SACKS, 13.2LB/GAL, 1.57FT^3/SACK BELOW SURFACE CASING THE TOOL HAD MANY AREAS WHERE IT EXPERIENCED DECENTRALIZATION 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

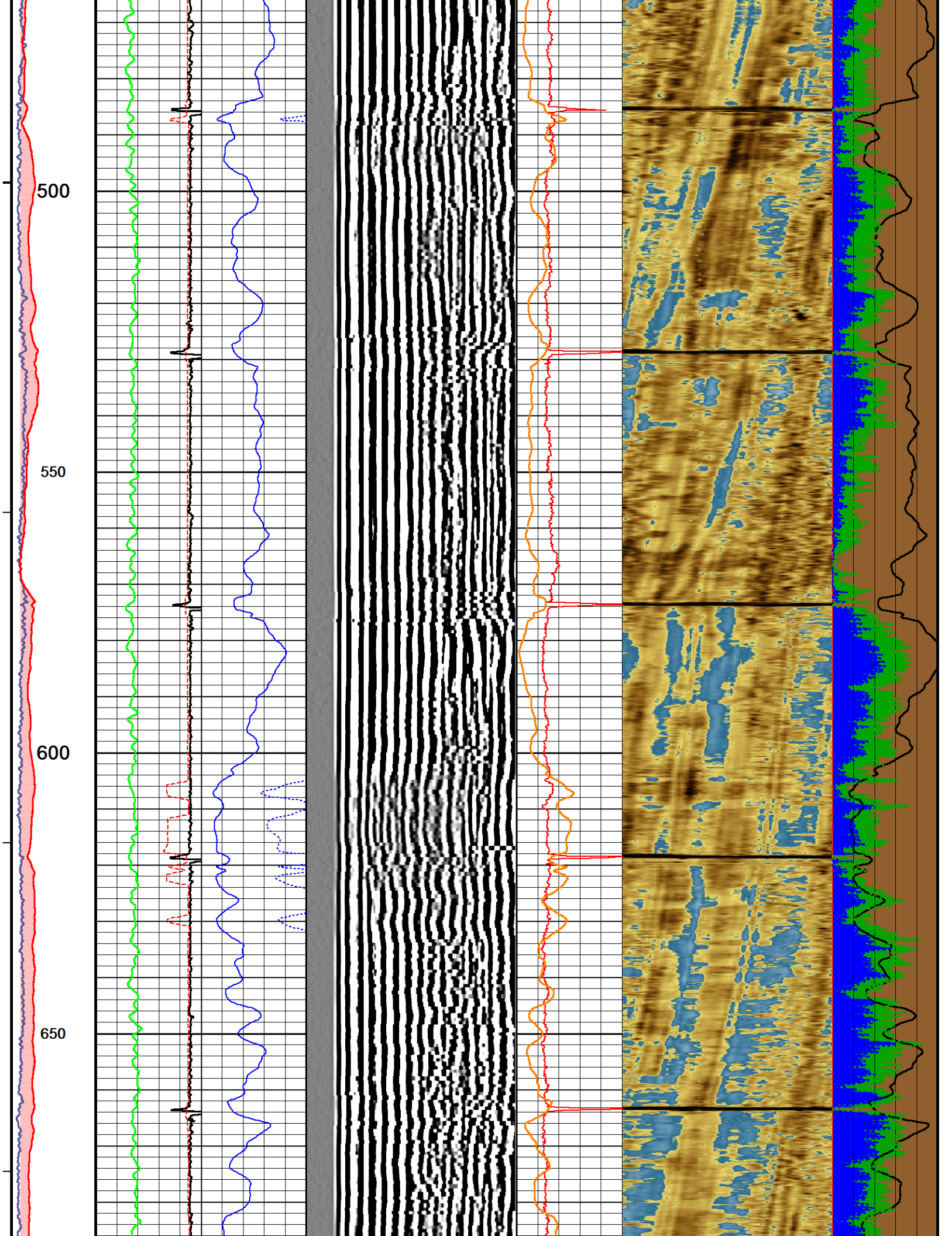
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will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

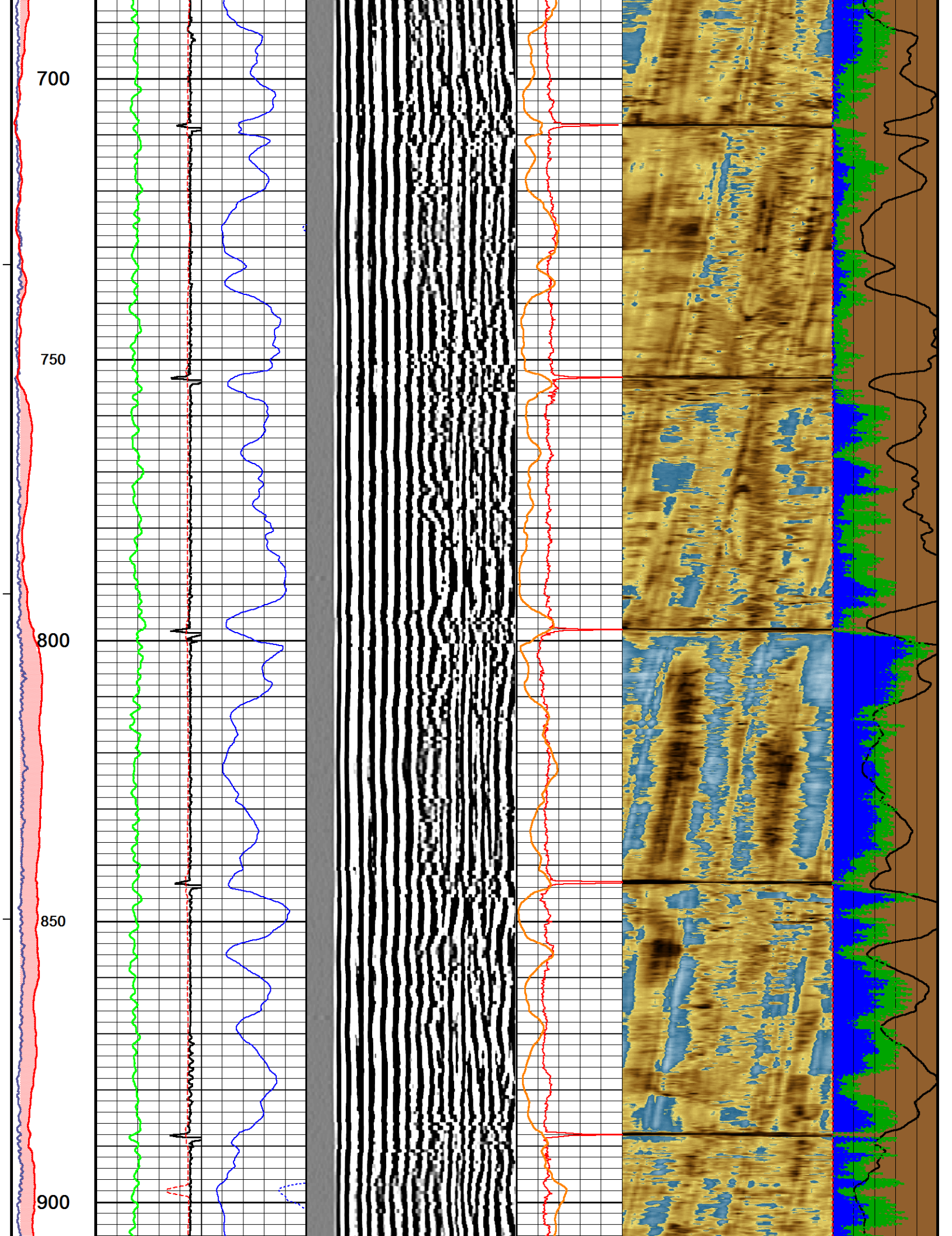
Contractor will give the Company the benefit of the Contractor's best judgment based on its experience and will perform all such work in a good and workmanlike manner. Any interpretation of test or other data, and any recommendation or reservoir description based upon such interpretations, are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and assumptions are not infallible, and with respect to which professional engineers and analysts may differ. ACCORDINGLY ANY INTERPRETATION OR RECOMMENDATION RESULTING FROM THE SERVICES WILL BE AT THE SOLE RISK OF THE COMPANY, AND THE CONTRACTOR CANNOT AND DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR COMPLETENESS OF ANY SUCH INTERPRETATION OR RECOMMENDATION, WHICH INTERPRETATIONS AND RECOMMENDATIONS SHOULD NOT, THEREFORE, UNDER ANY CIRCUMSTANCES BE RELIED UPON AS THE SOLE OR MAIN BASIS FOR ANY DRILLING, COMPLETION, WELL TREATMENT, PRODUCTION OR FINANCIAL DECISION, OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING ACTIVITY, DRILLING RIG OR ITS CREW OR ANY OTHER INDIVIDUAL. THE COMPANY HAS FULL RESPONSIBILITY FOR ALL DECISIONS CONCERNING THE SERVICES.

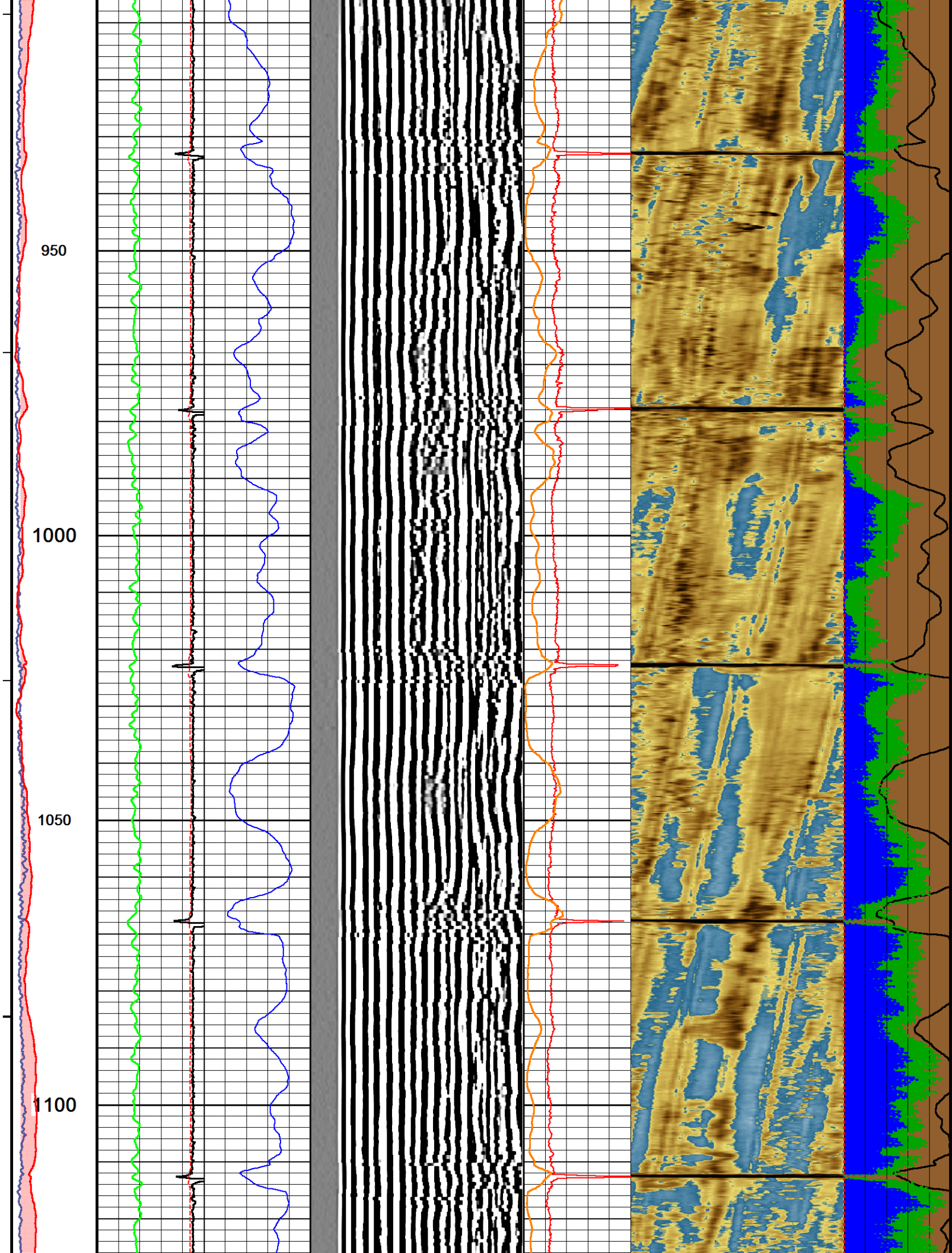


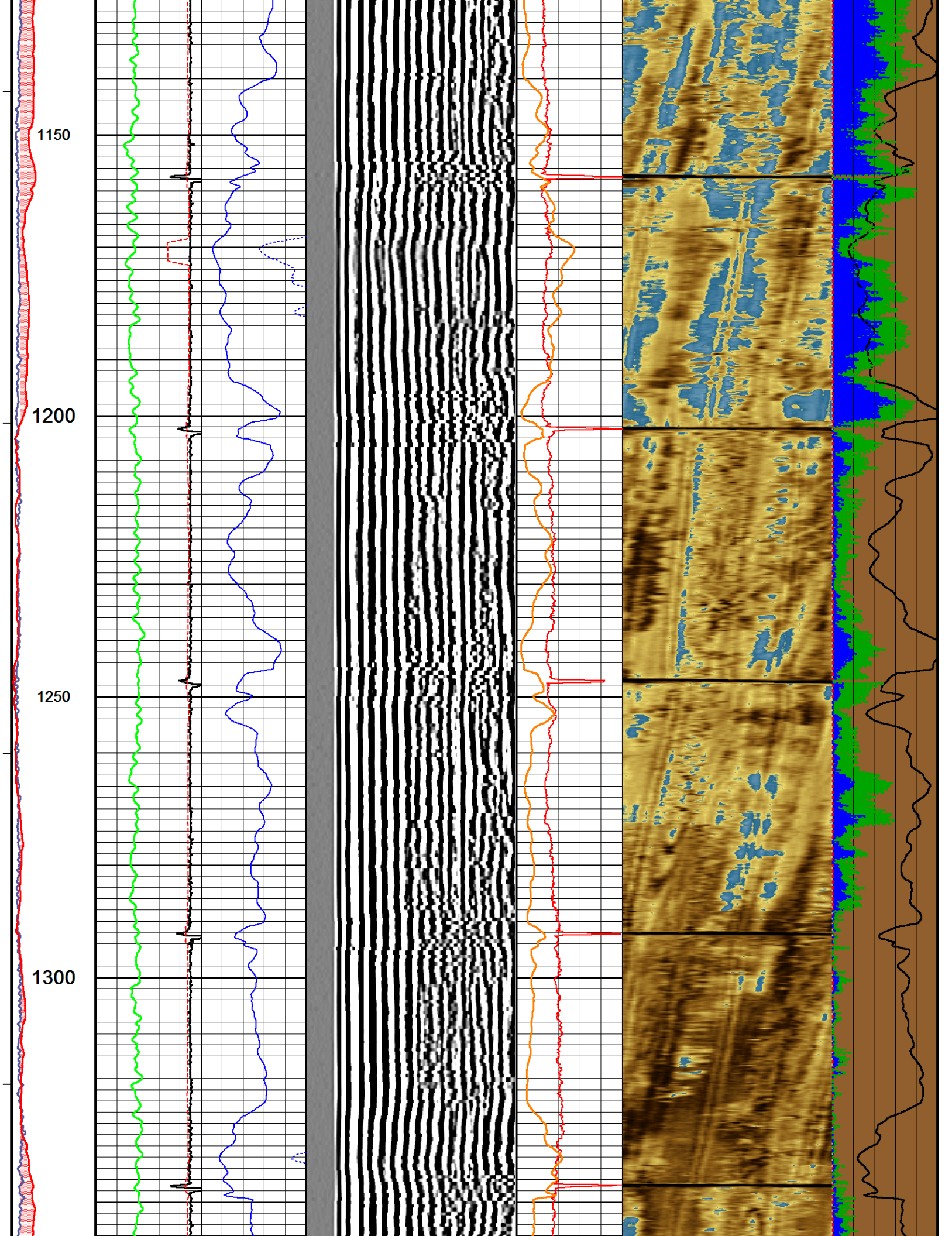


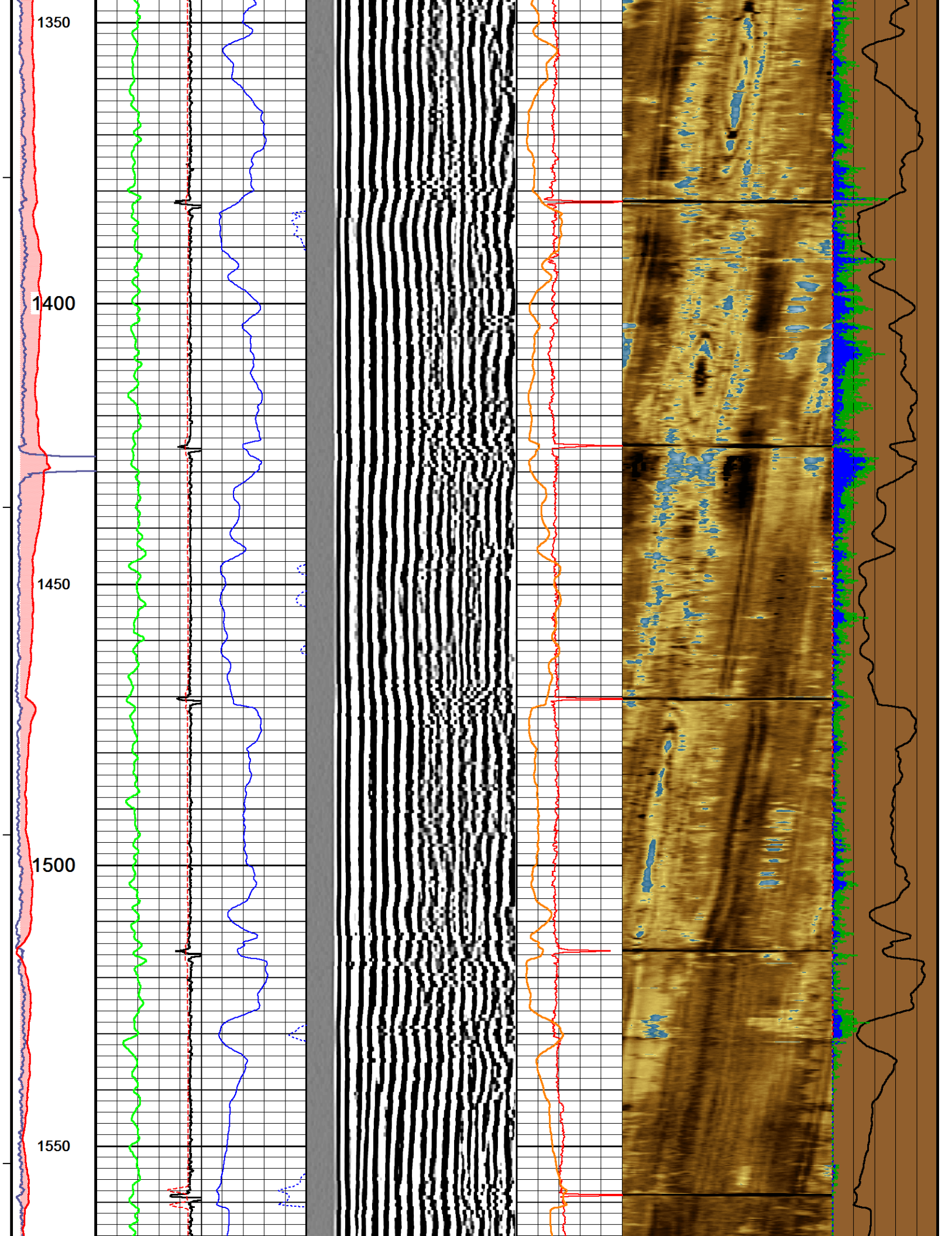


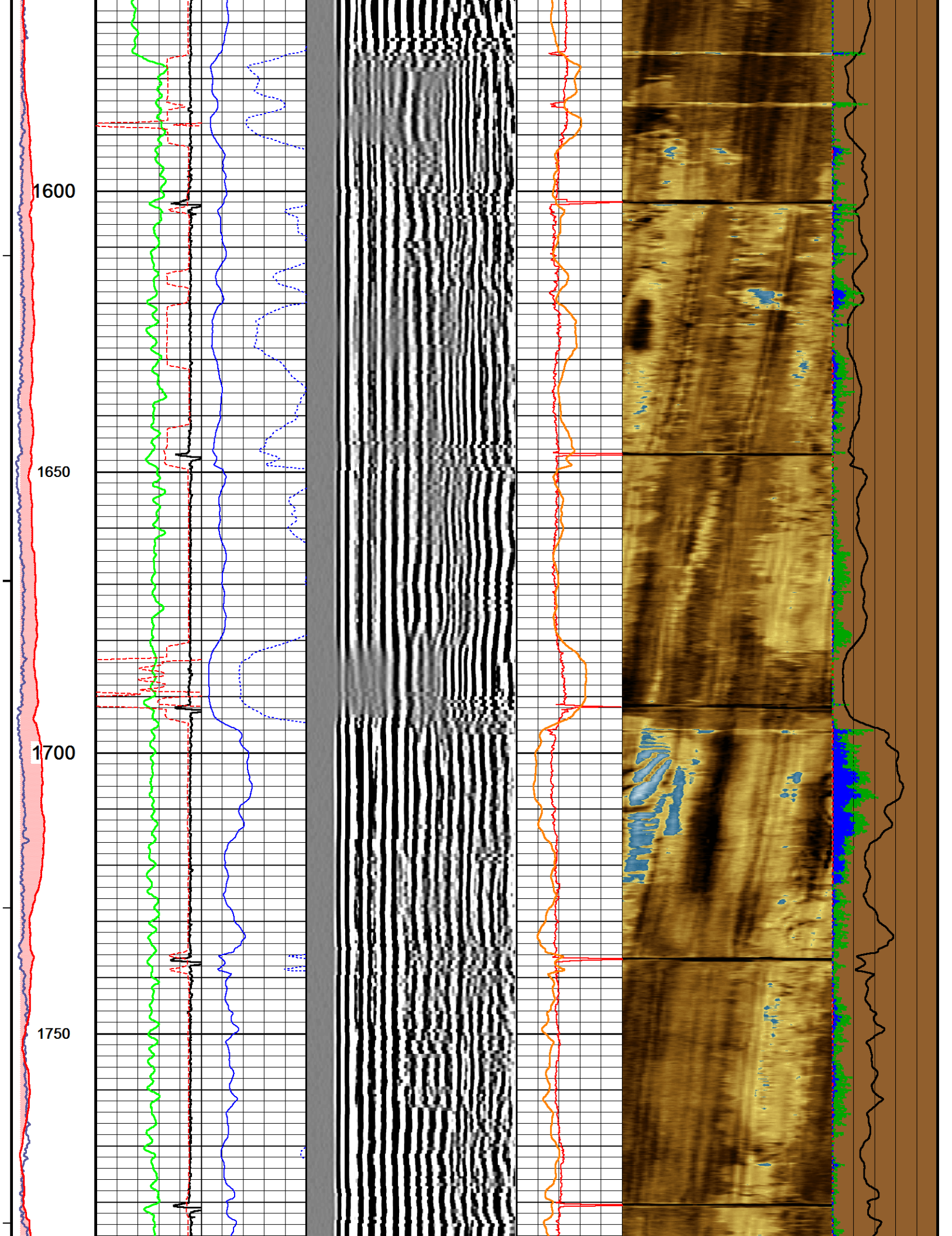


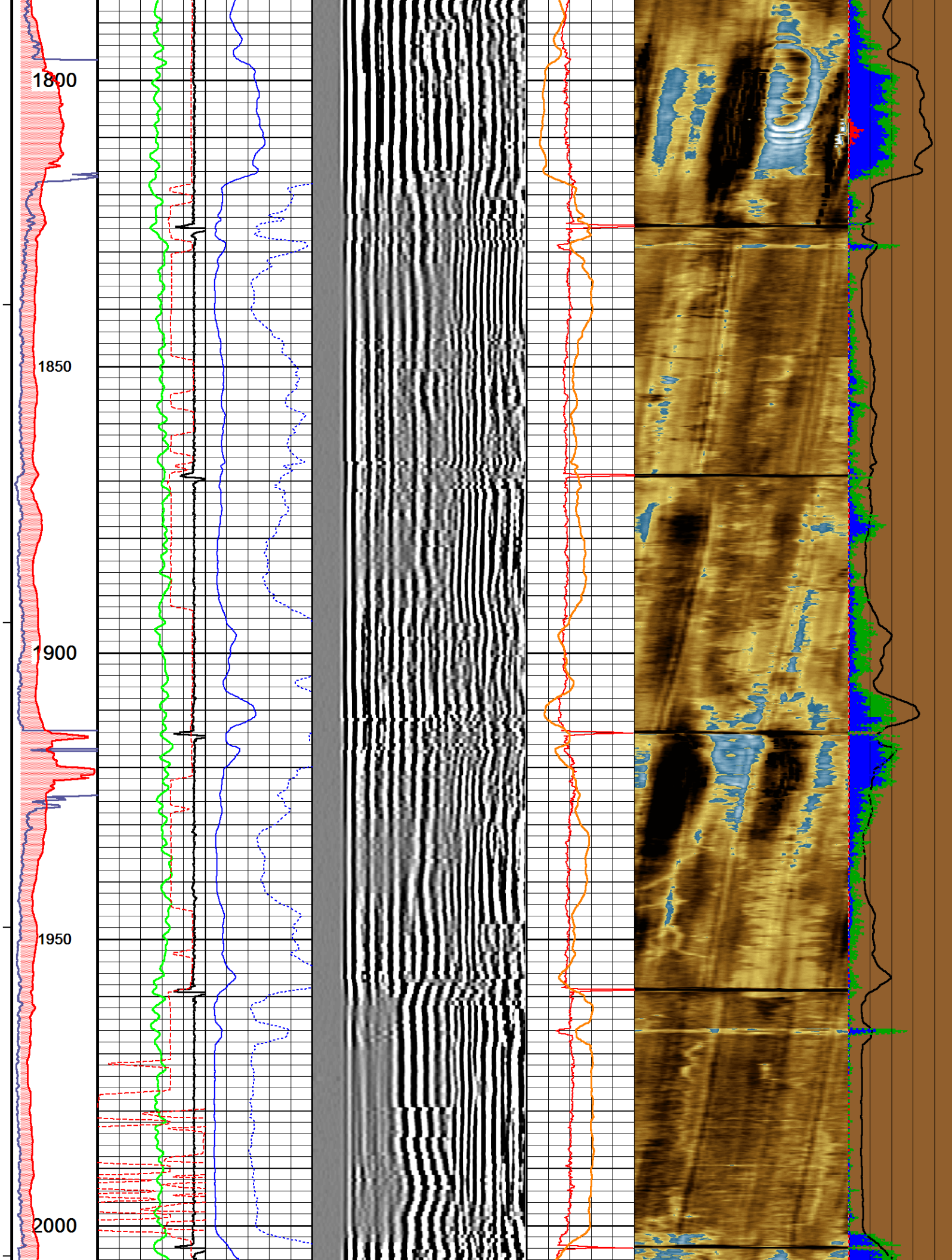


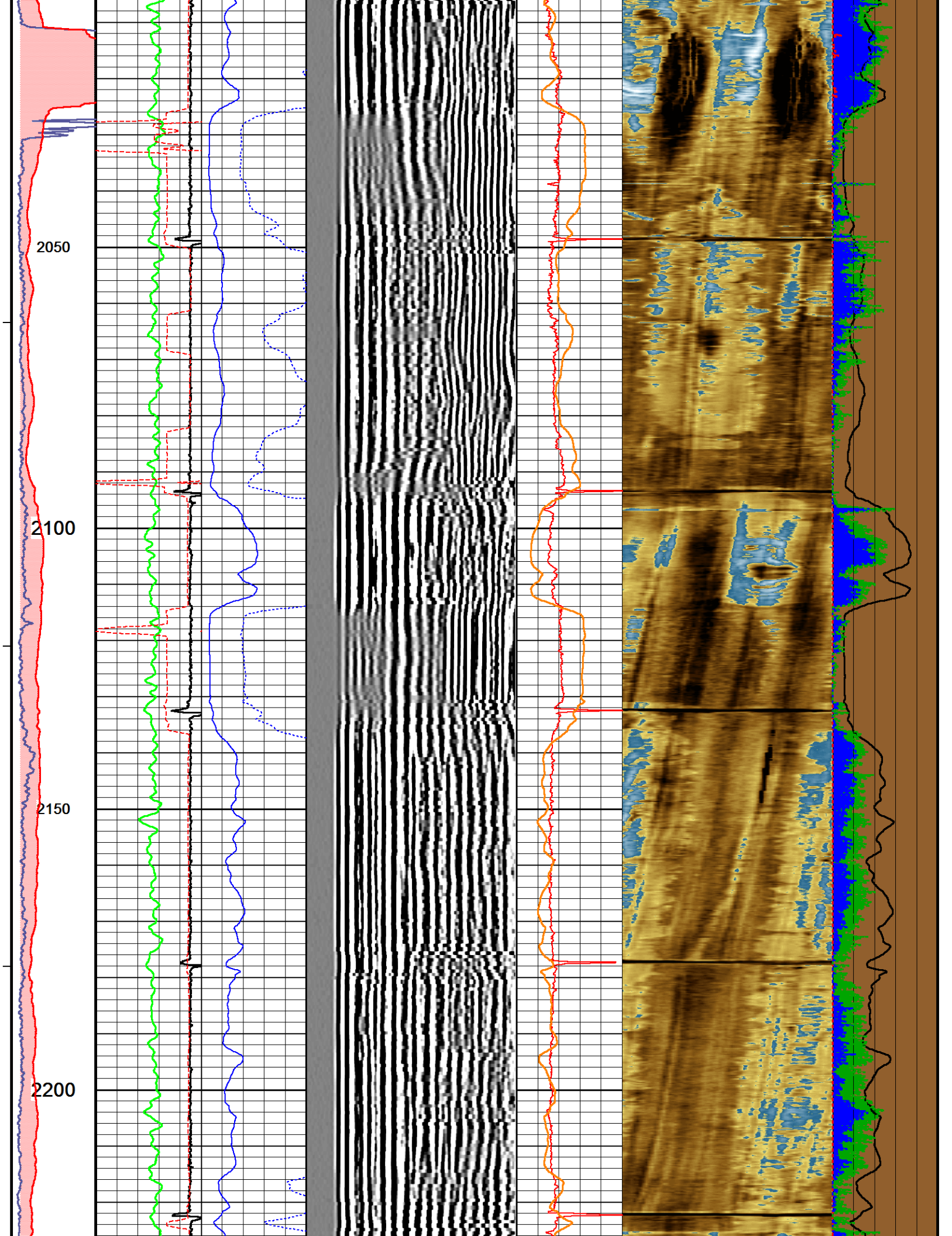


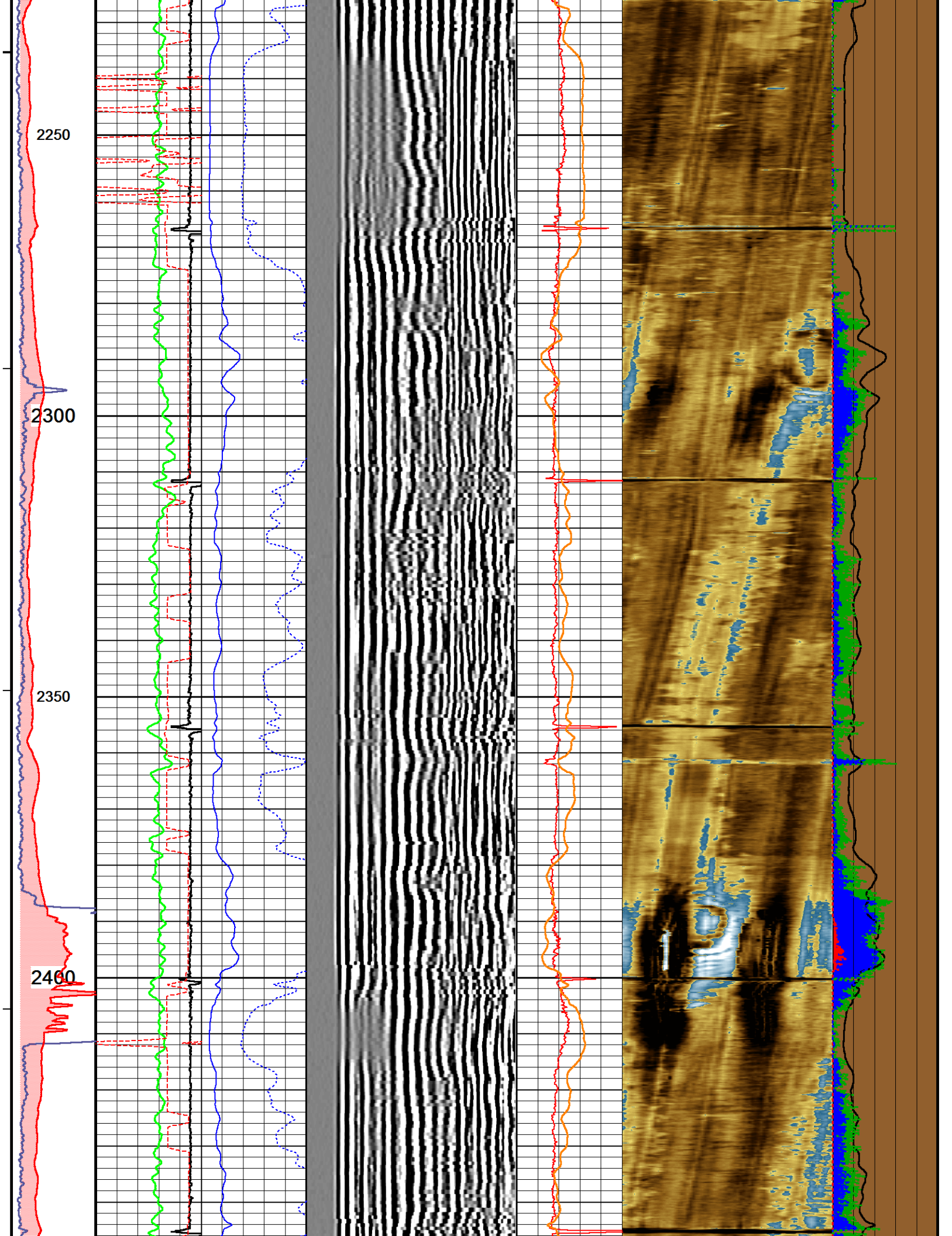


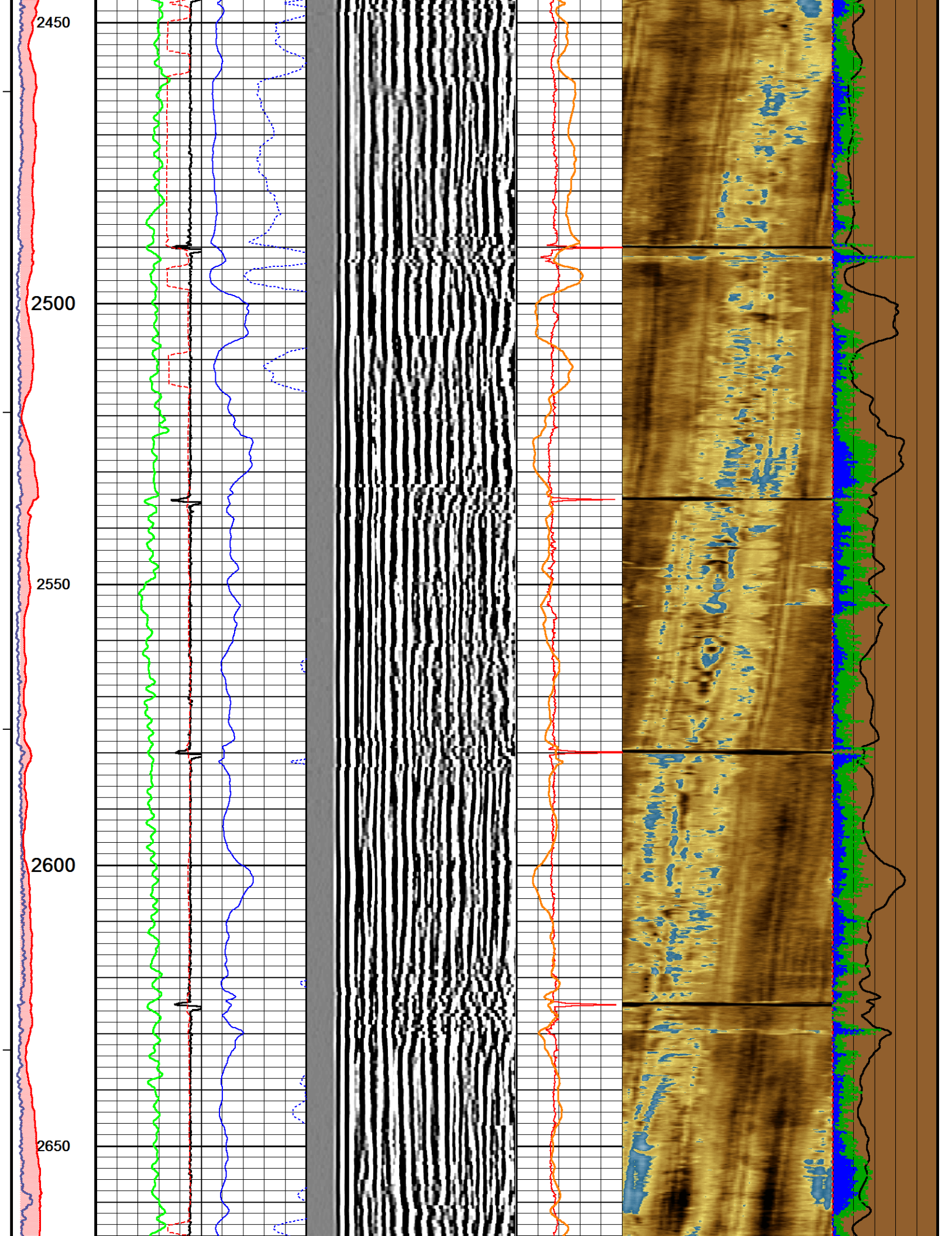


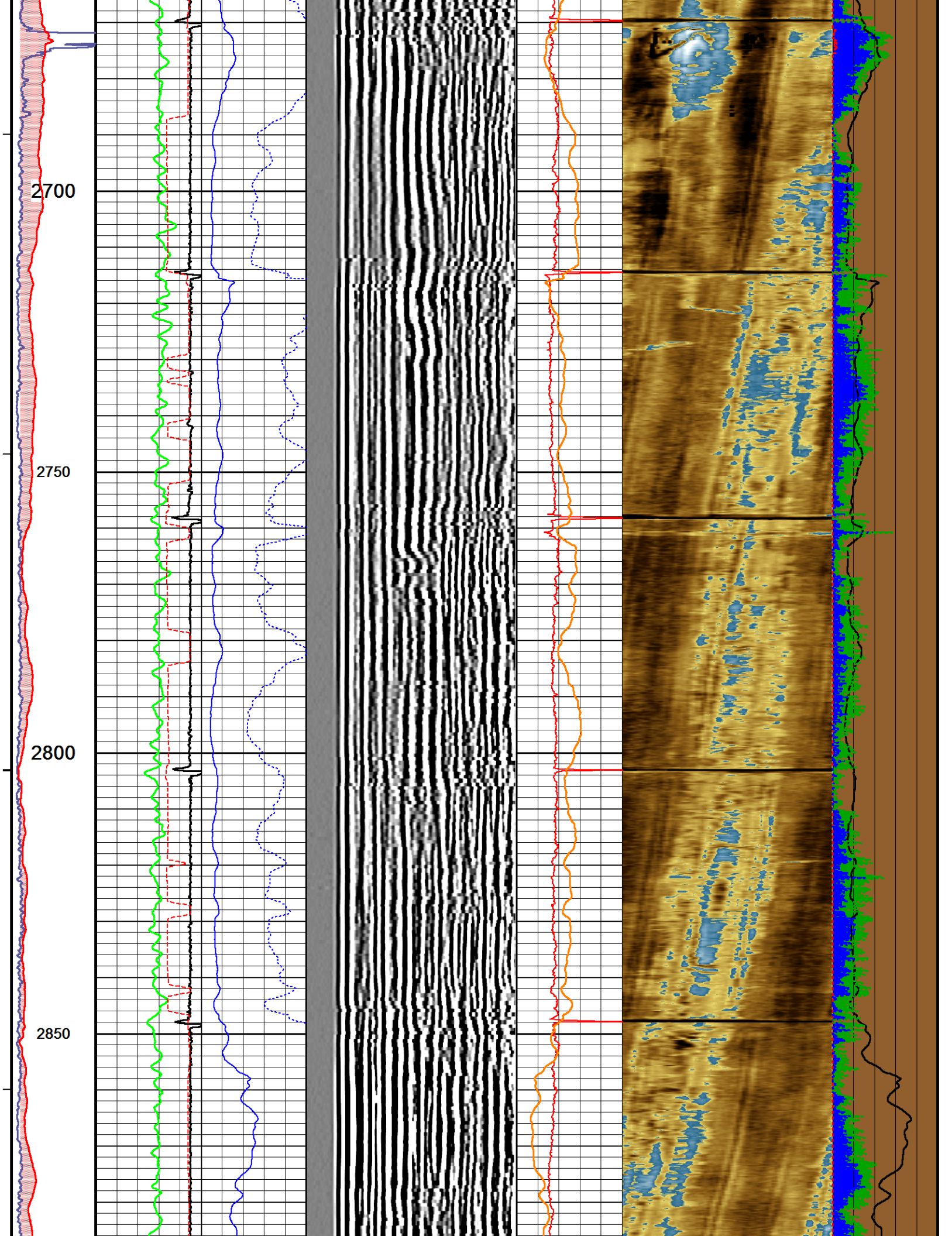


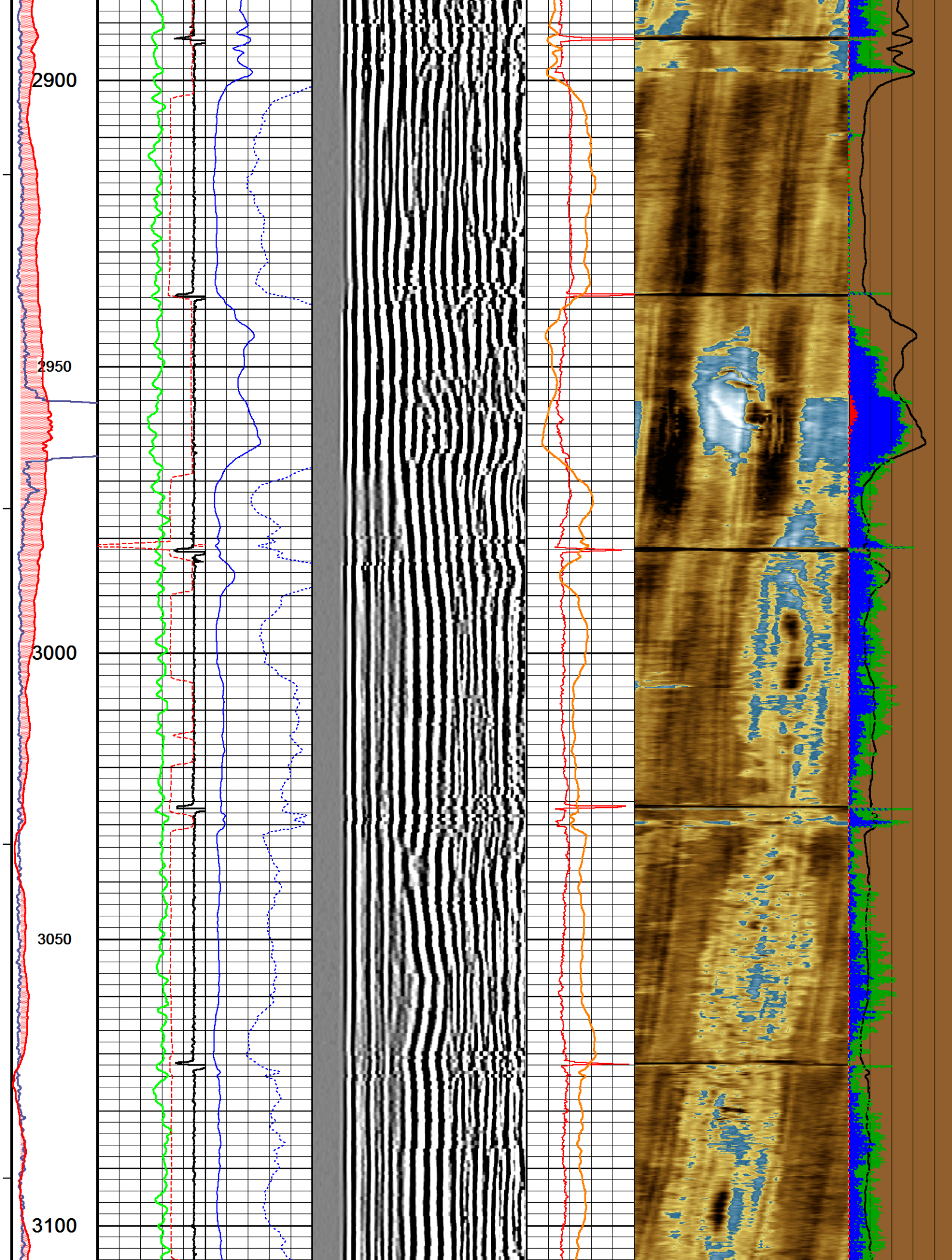


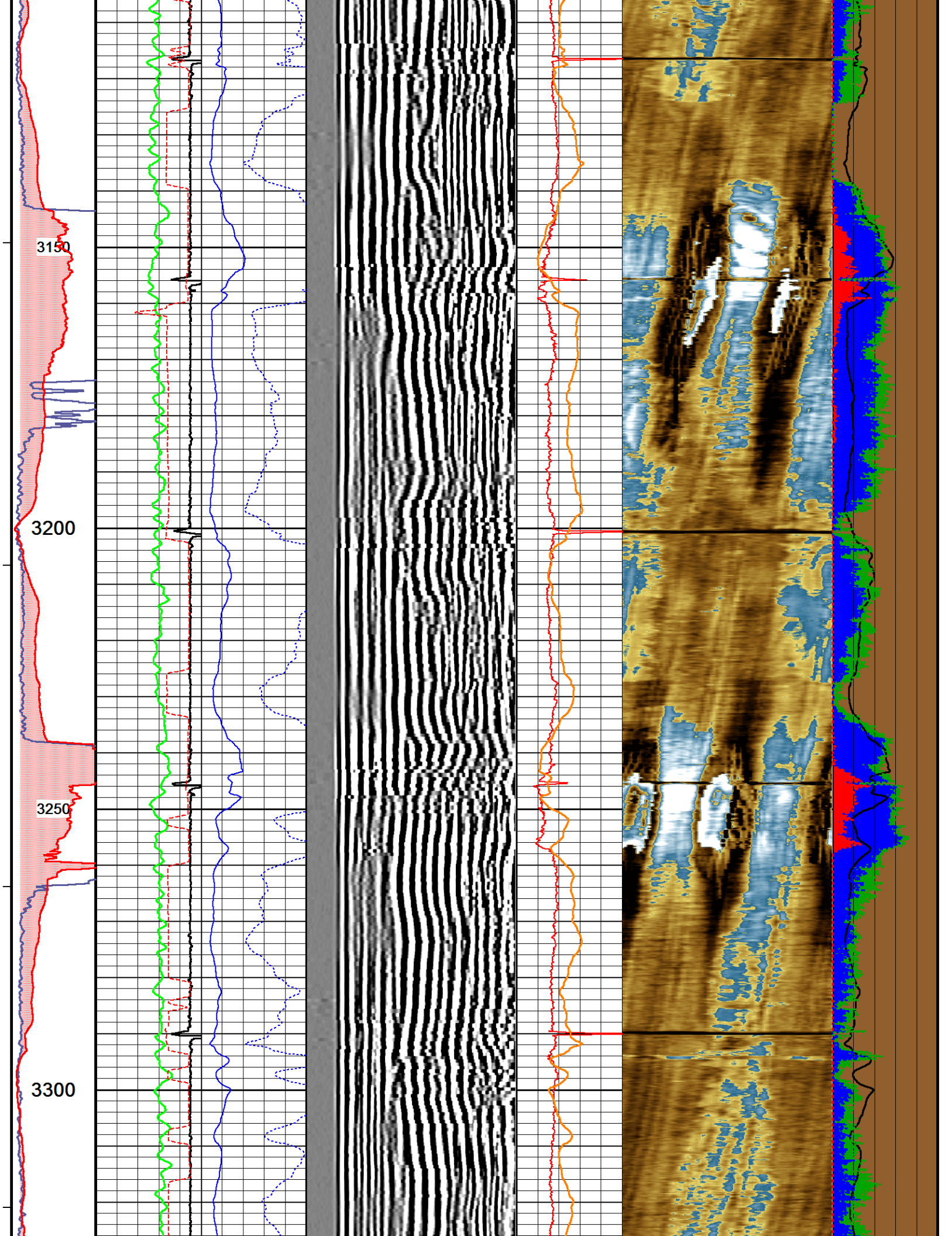


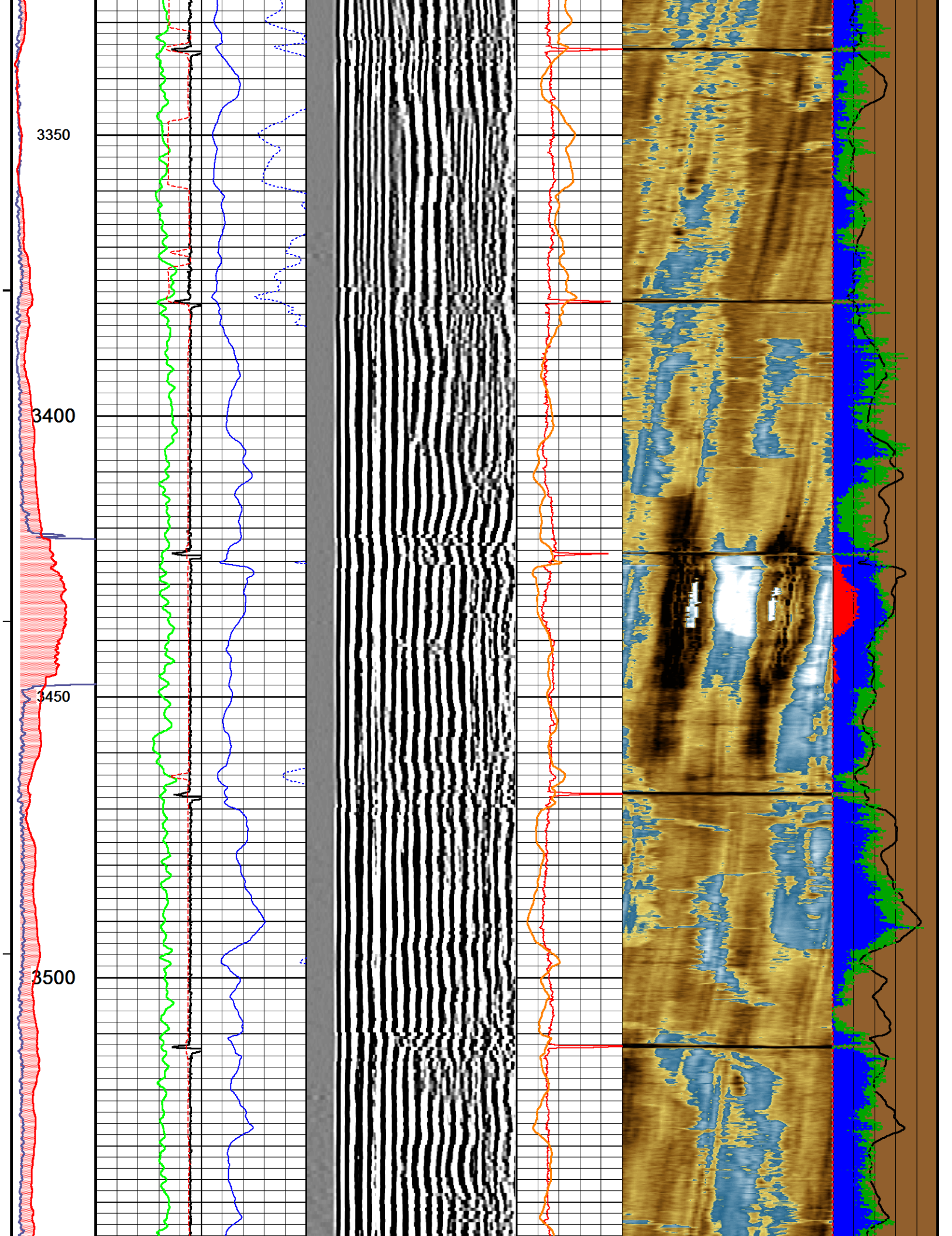


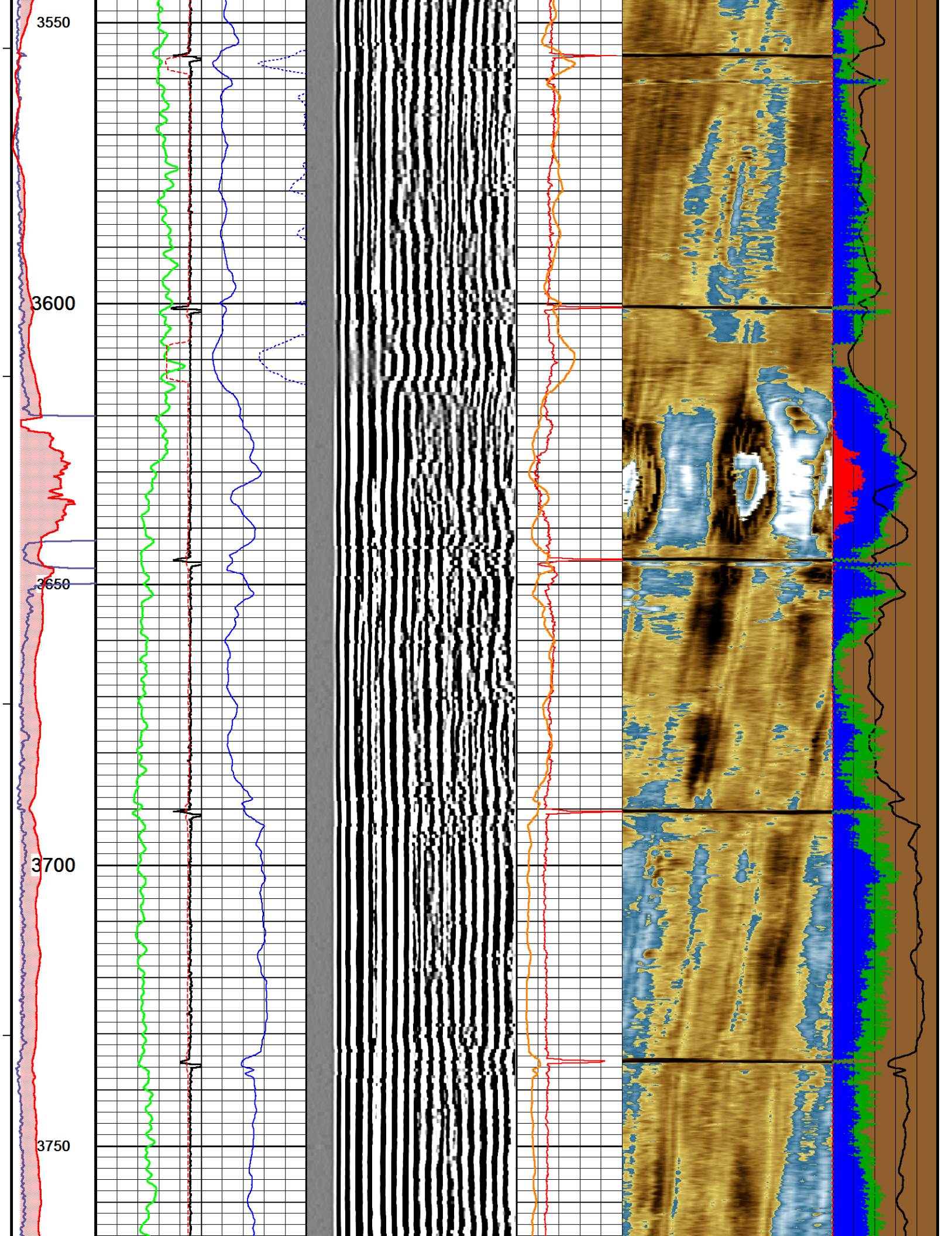


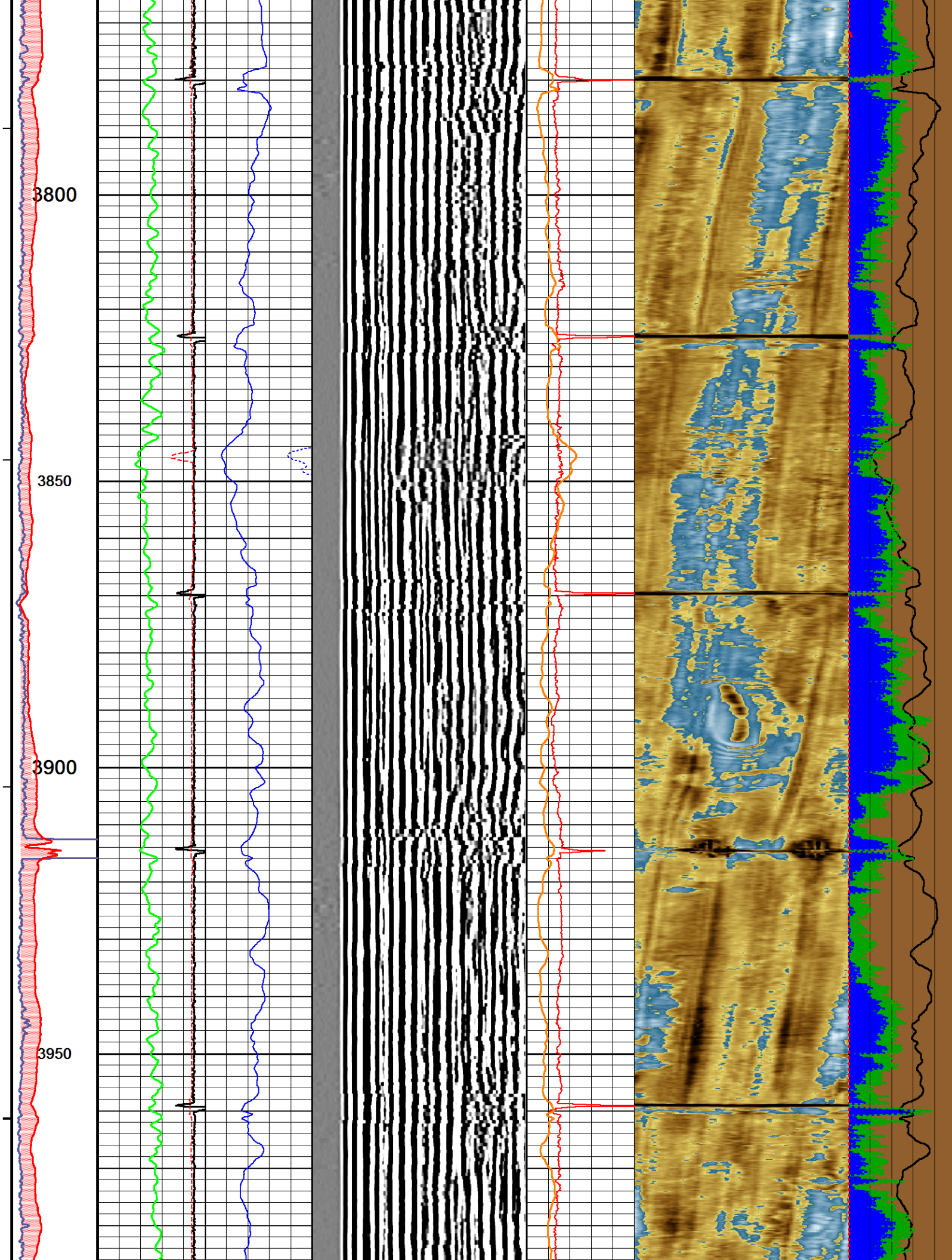


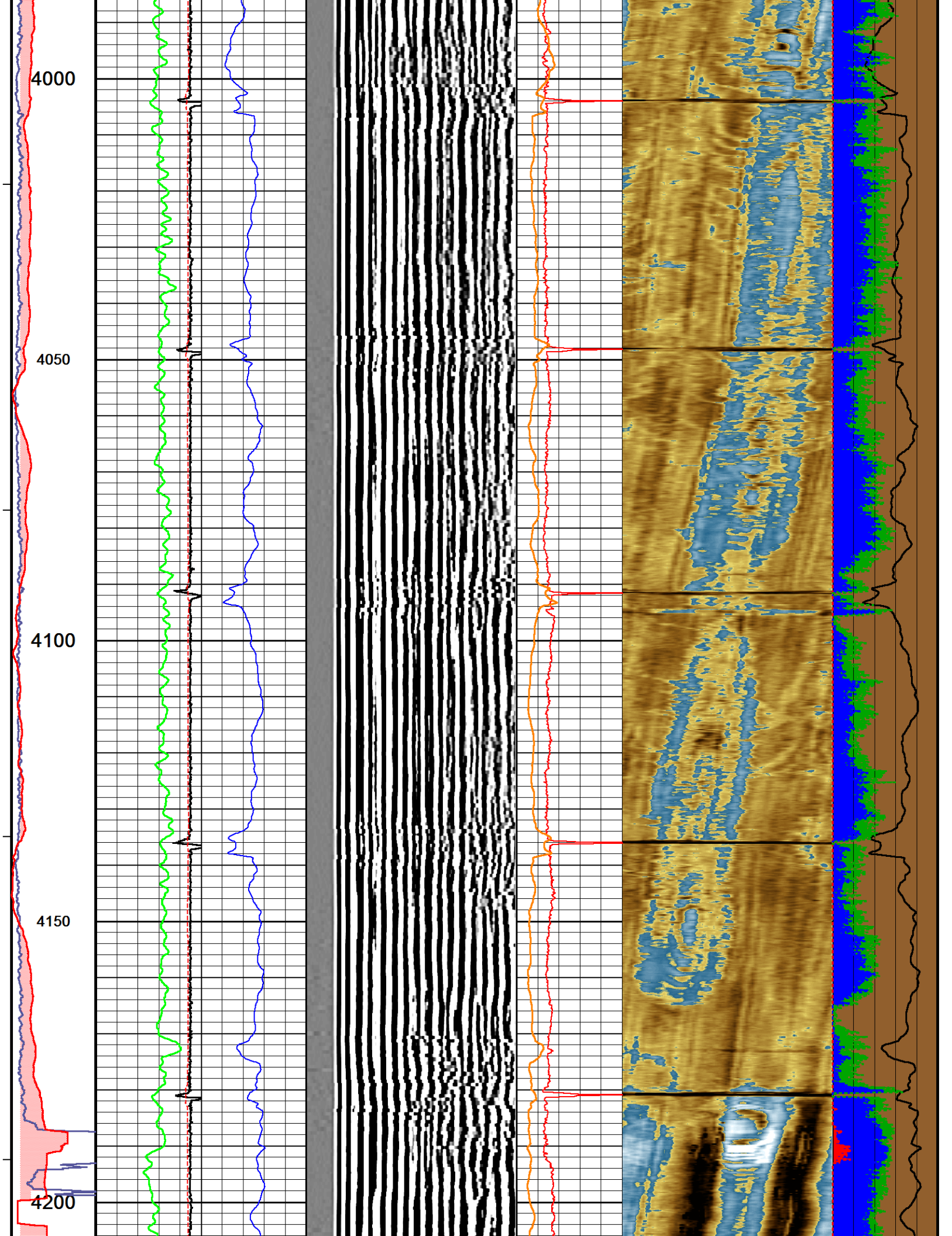


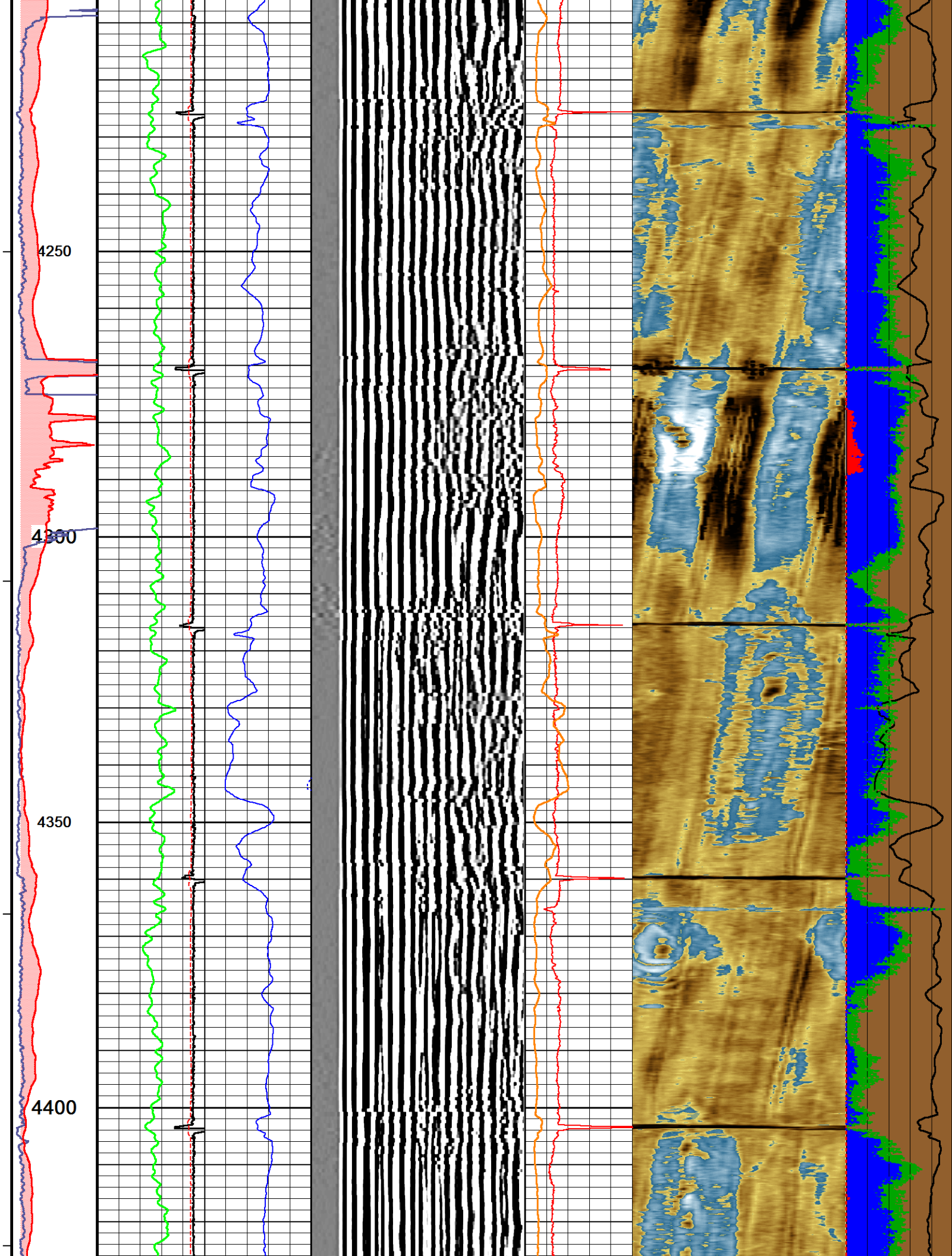


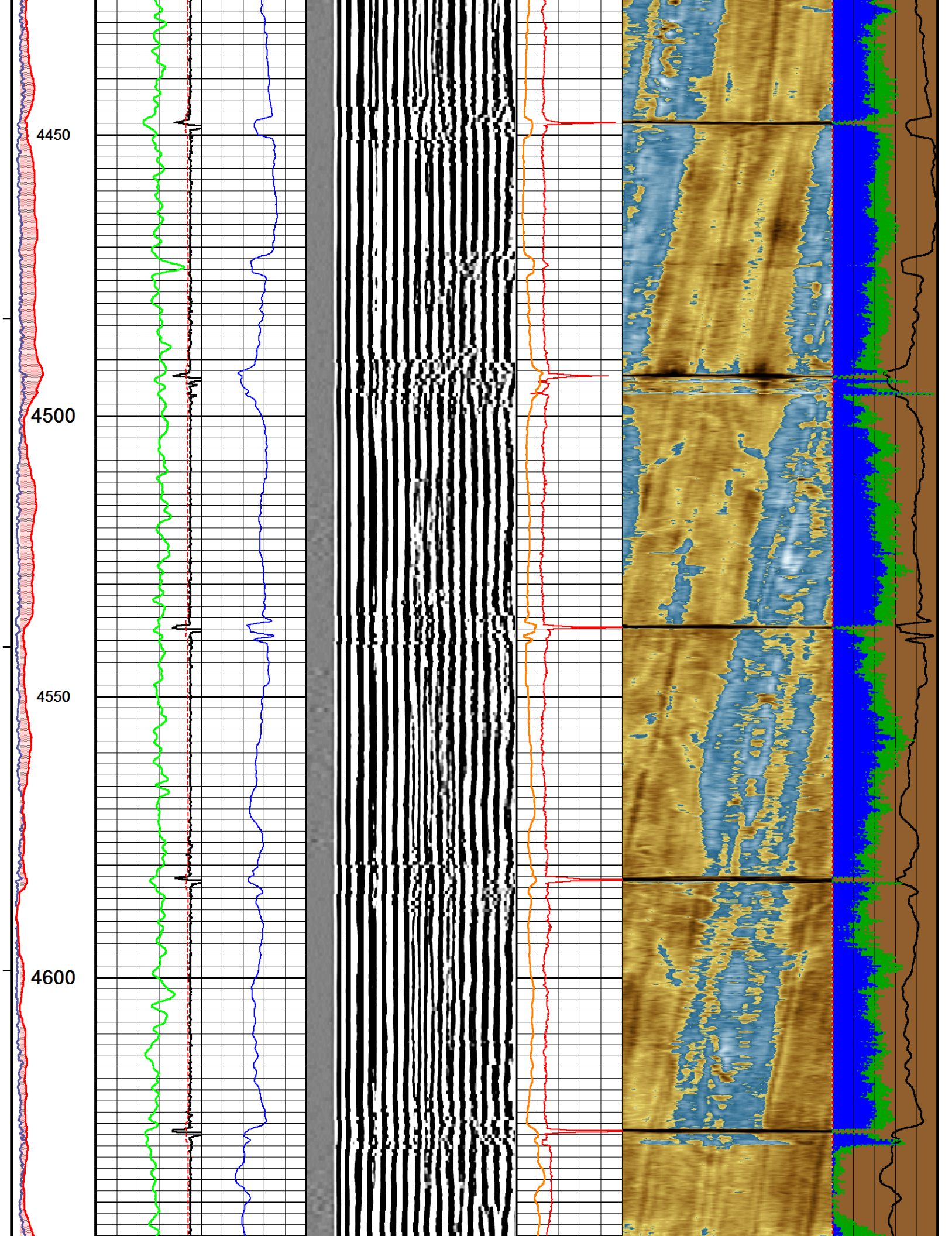


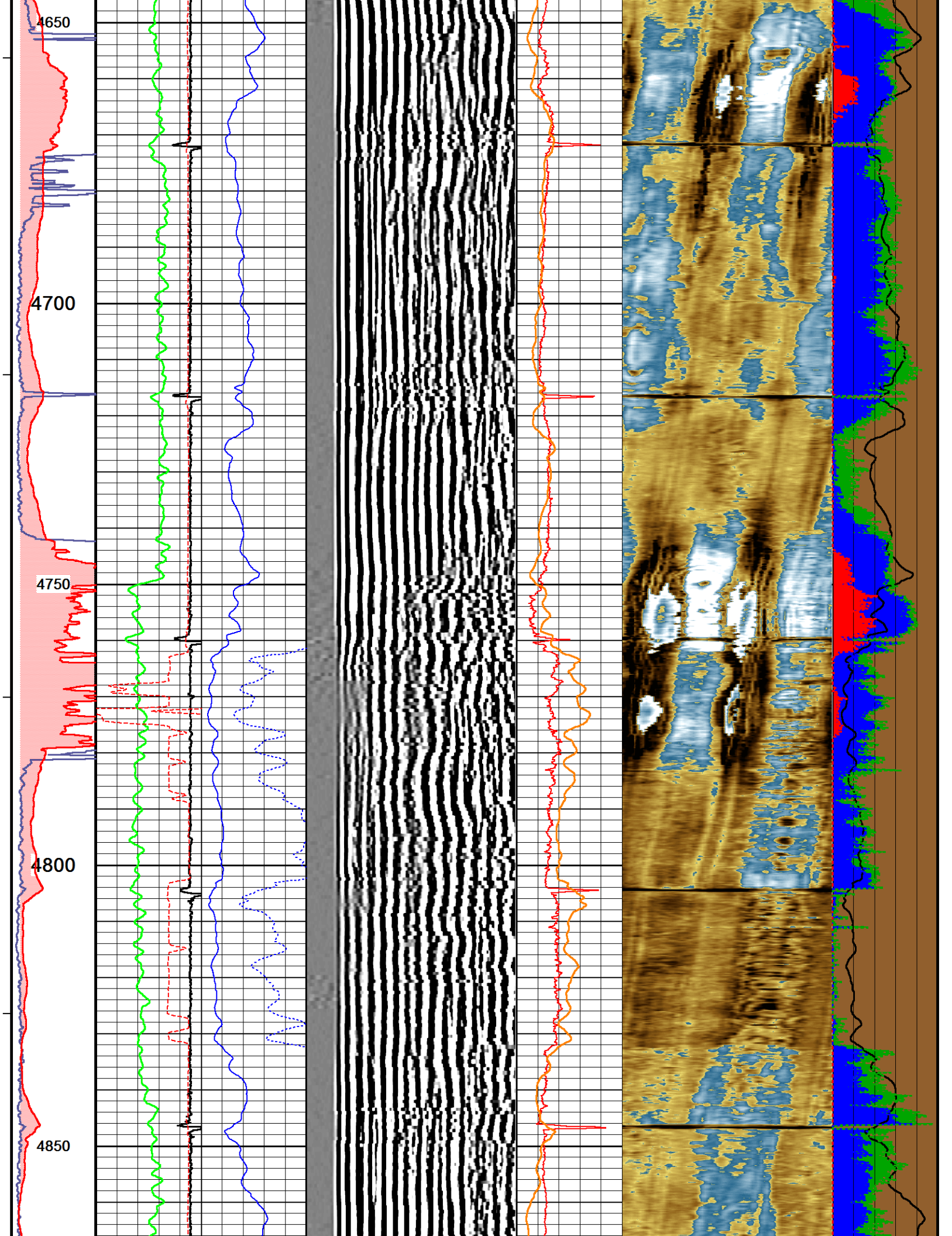


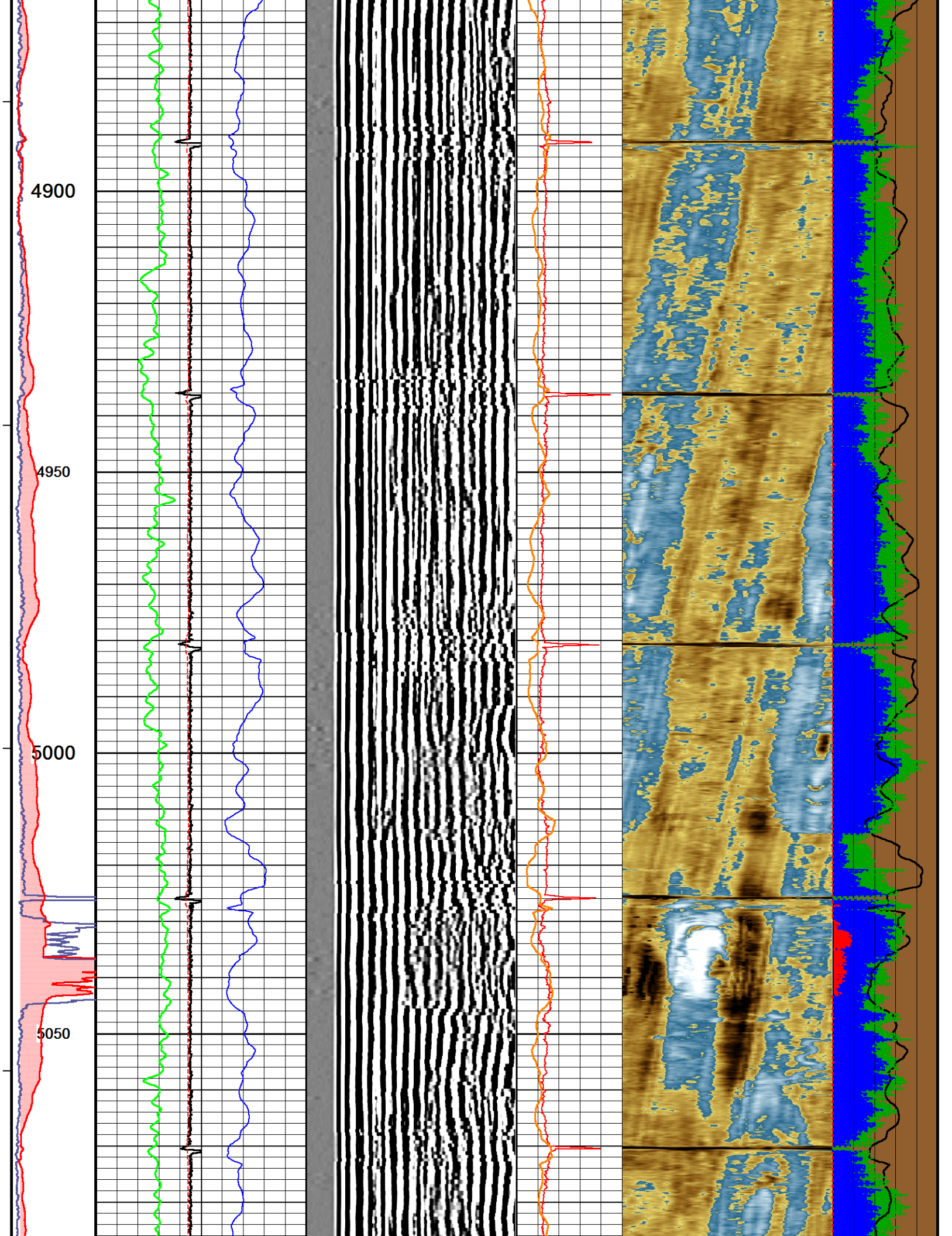


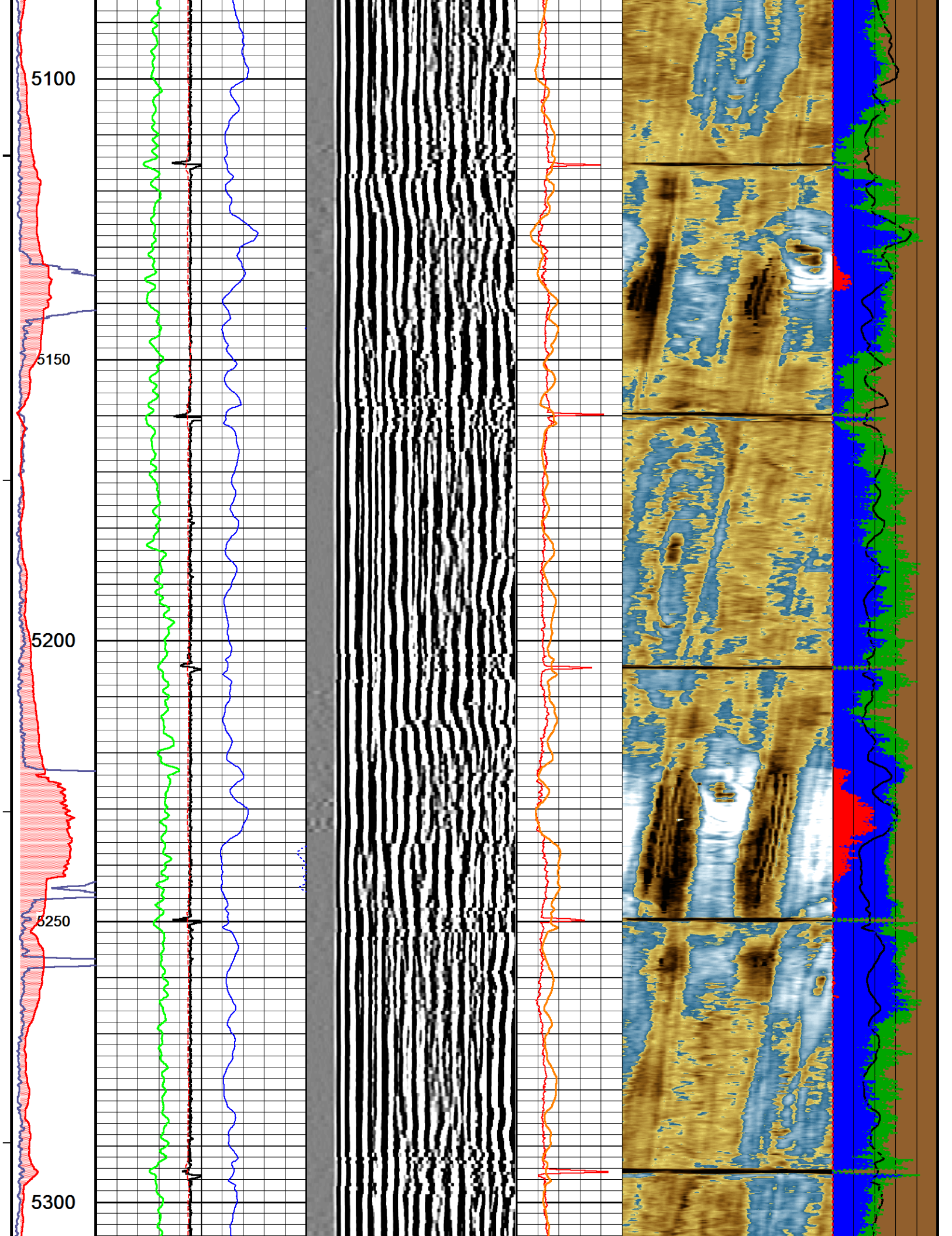


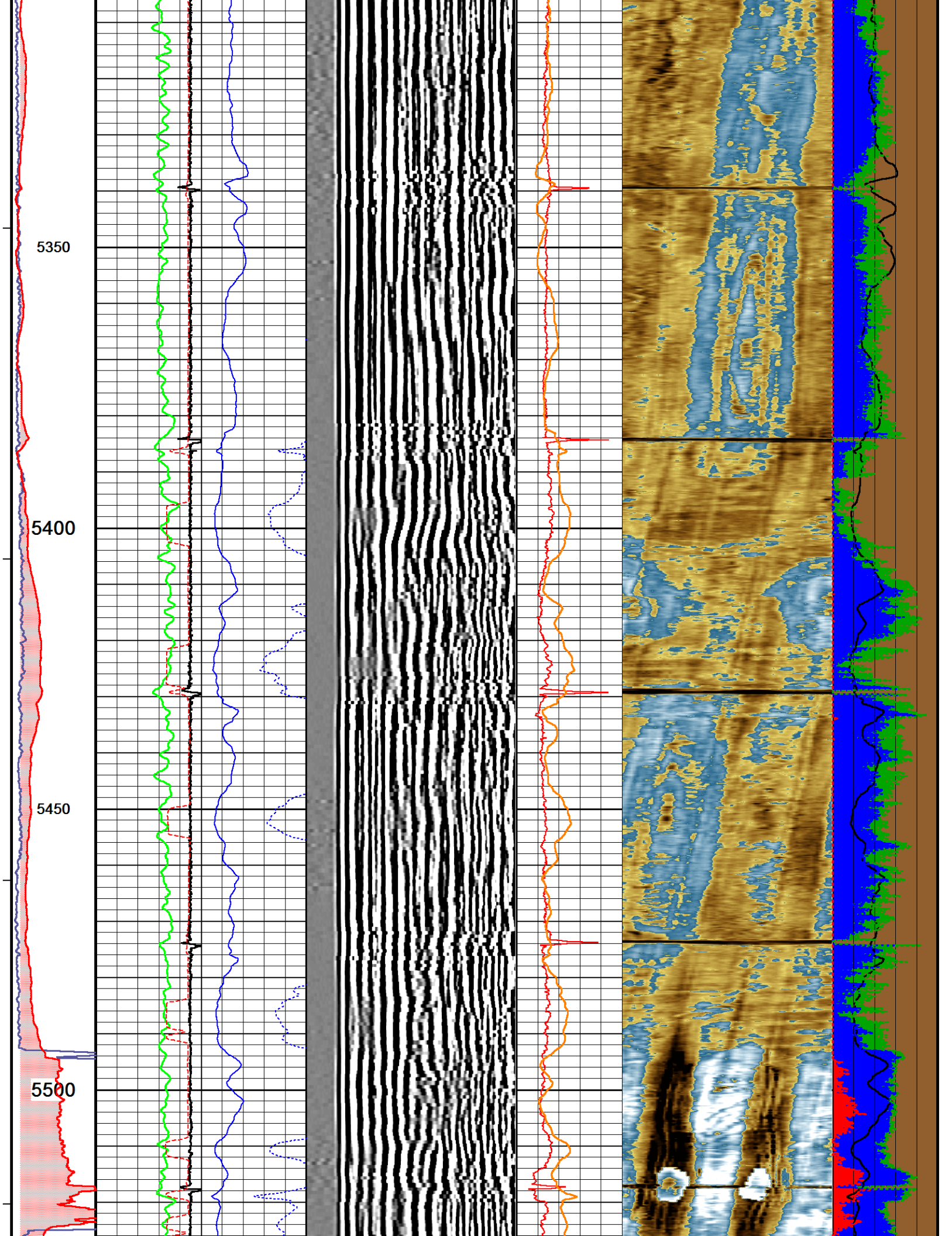


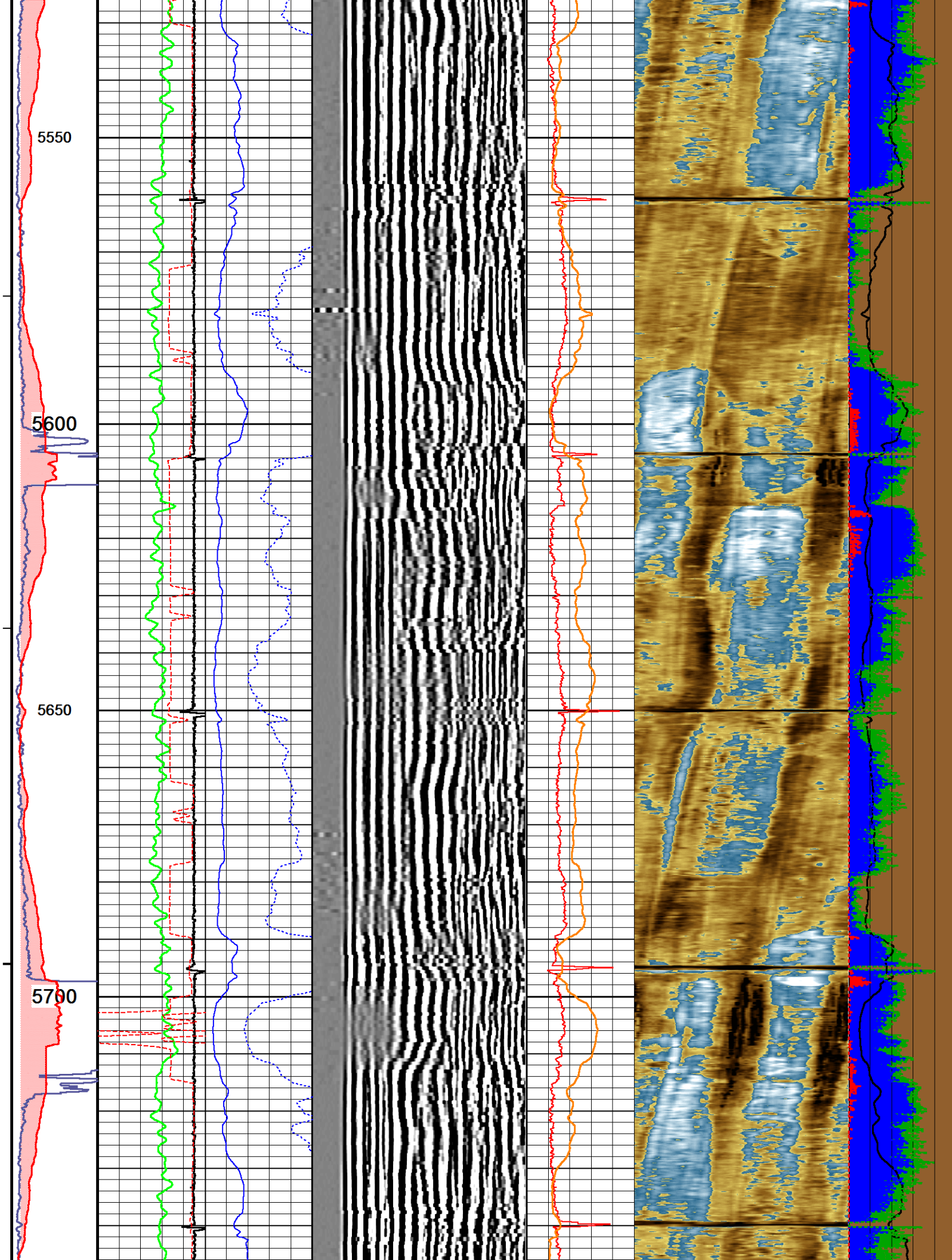


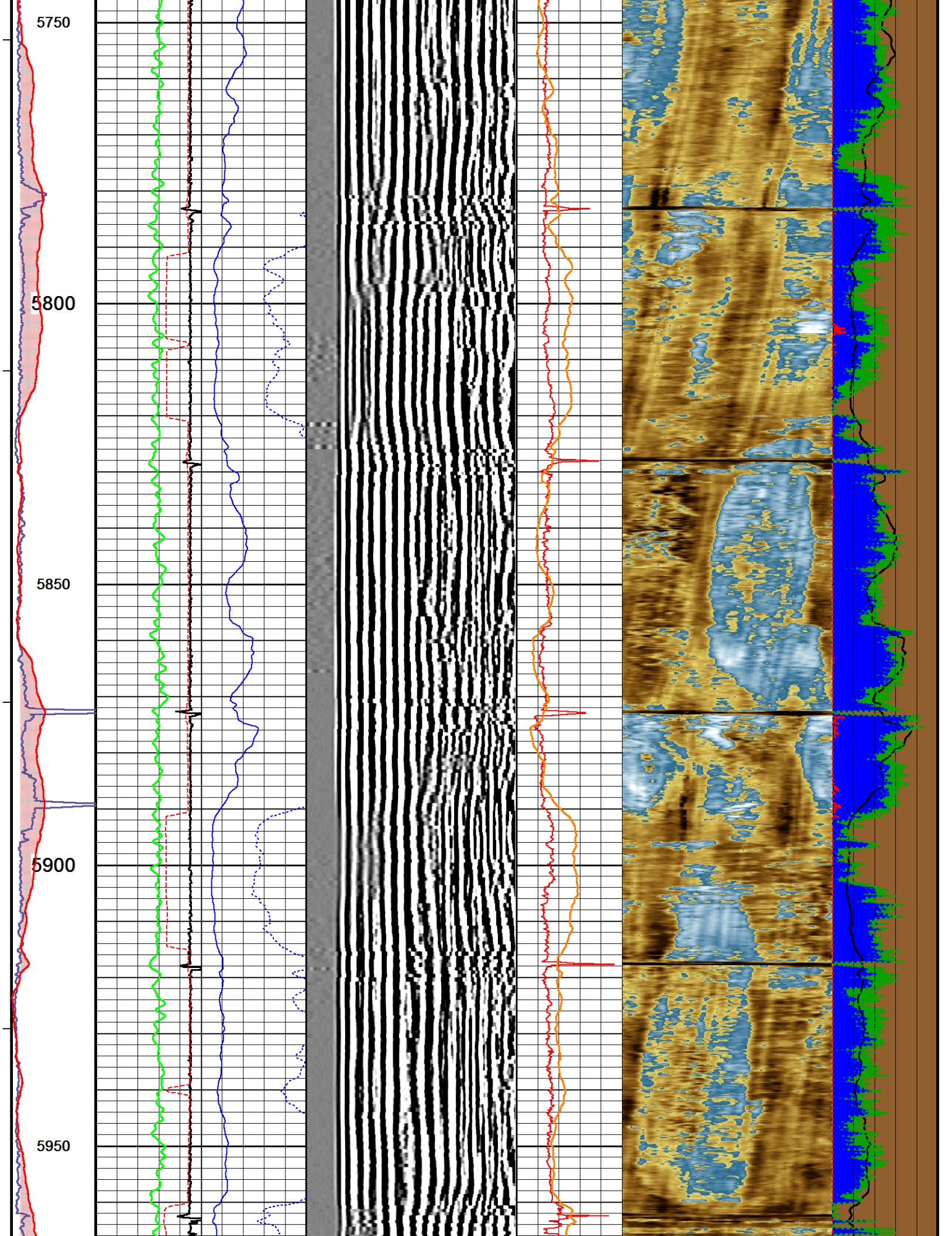


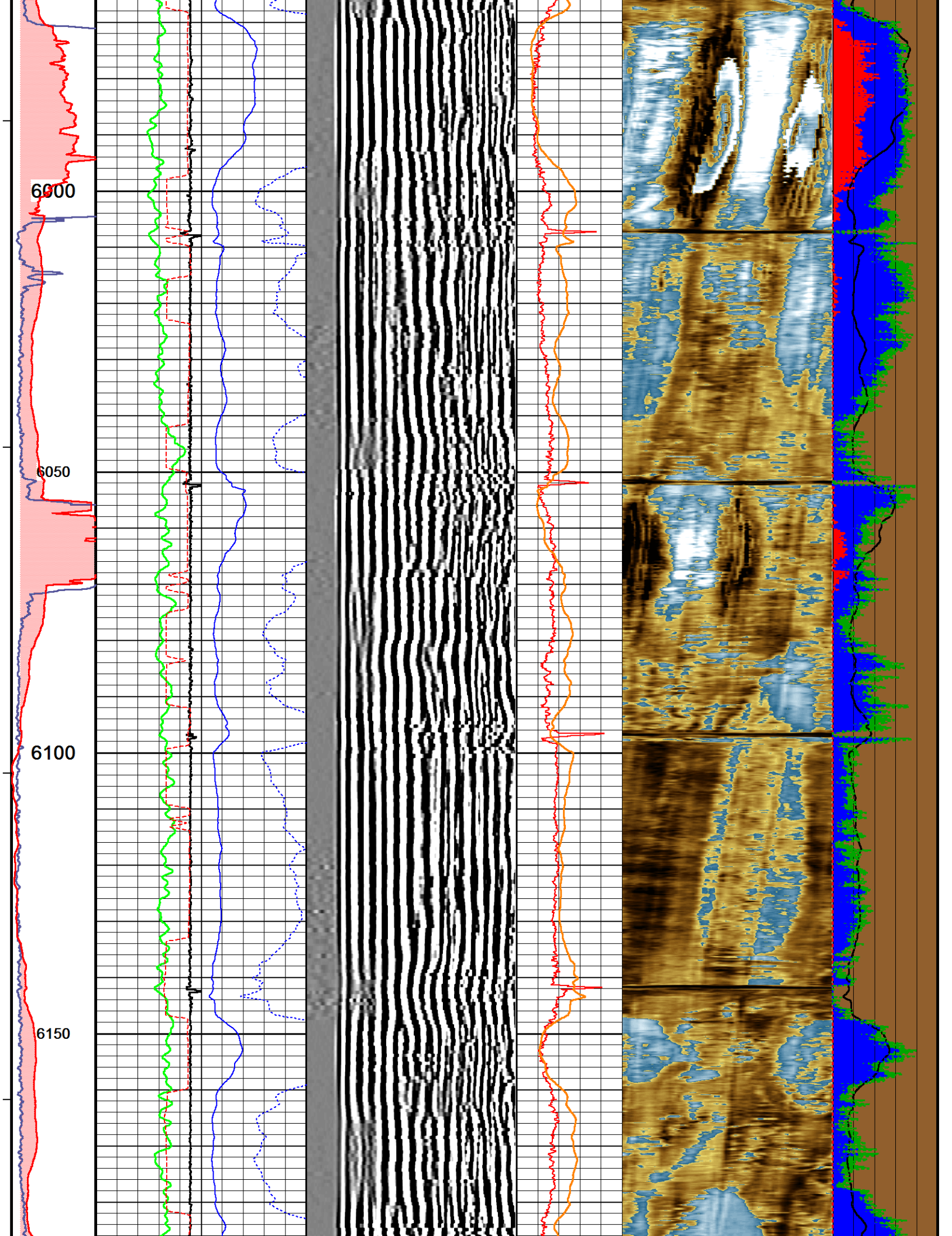


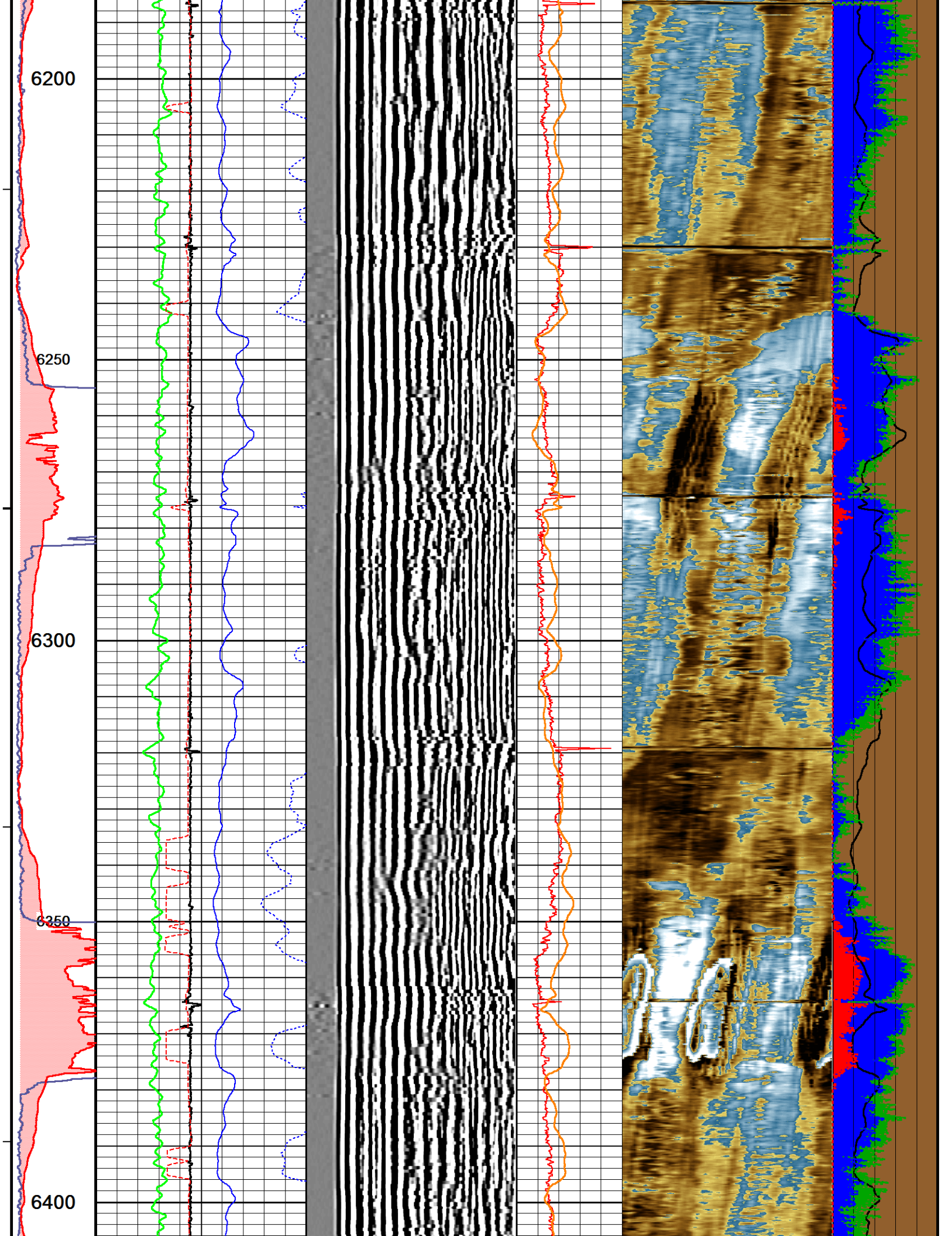


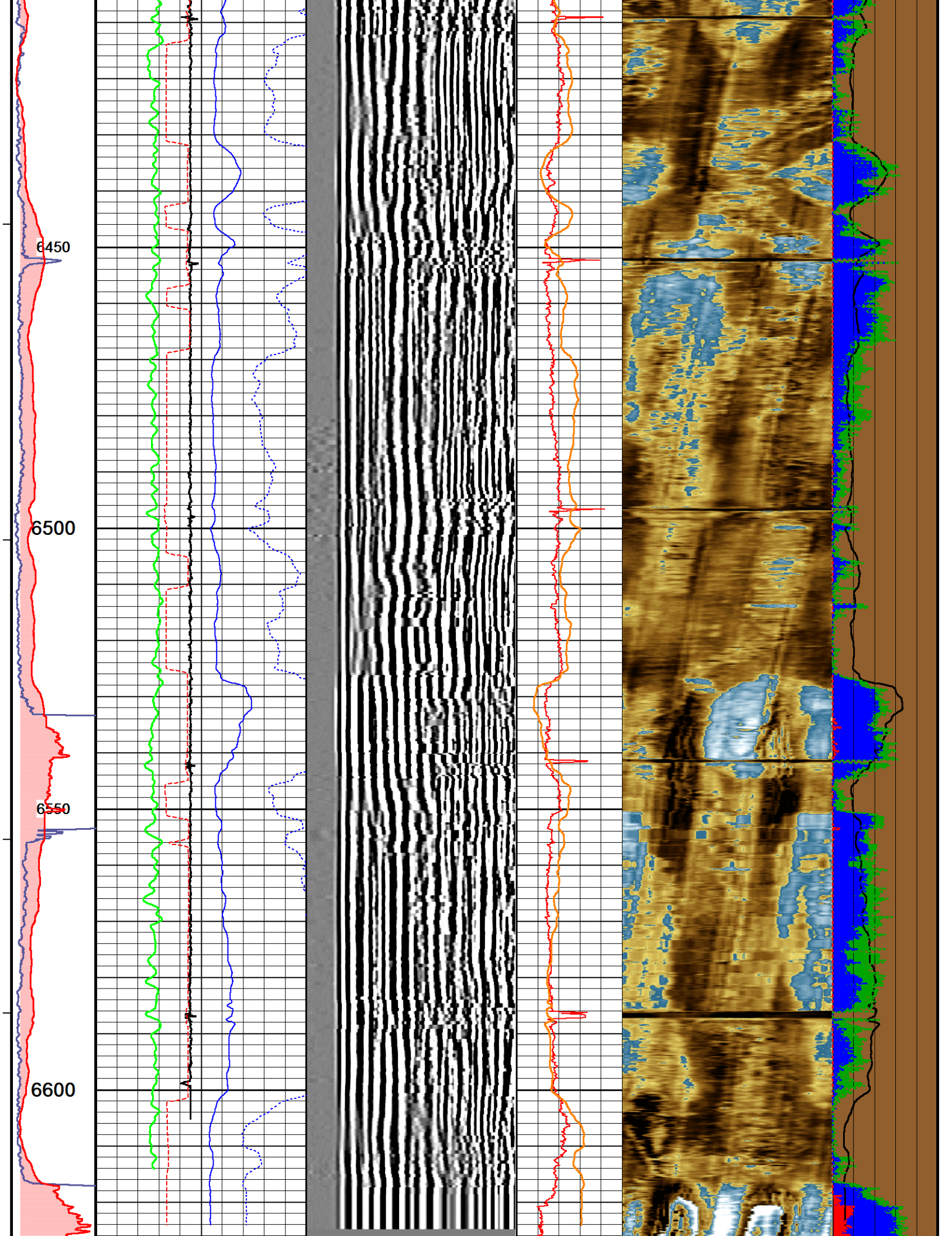


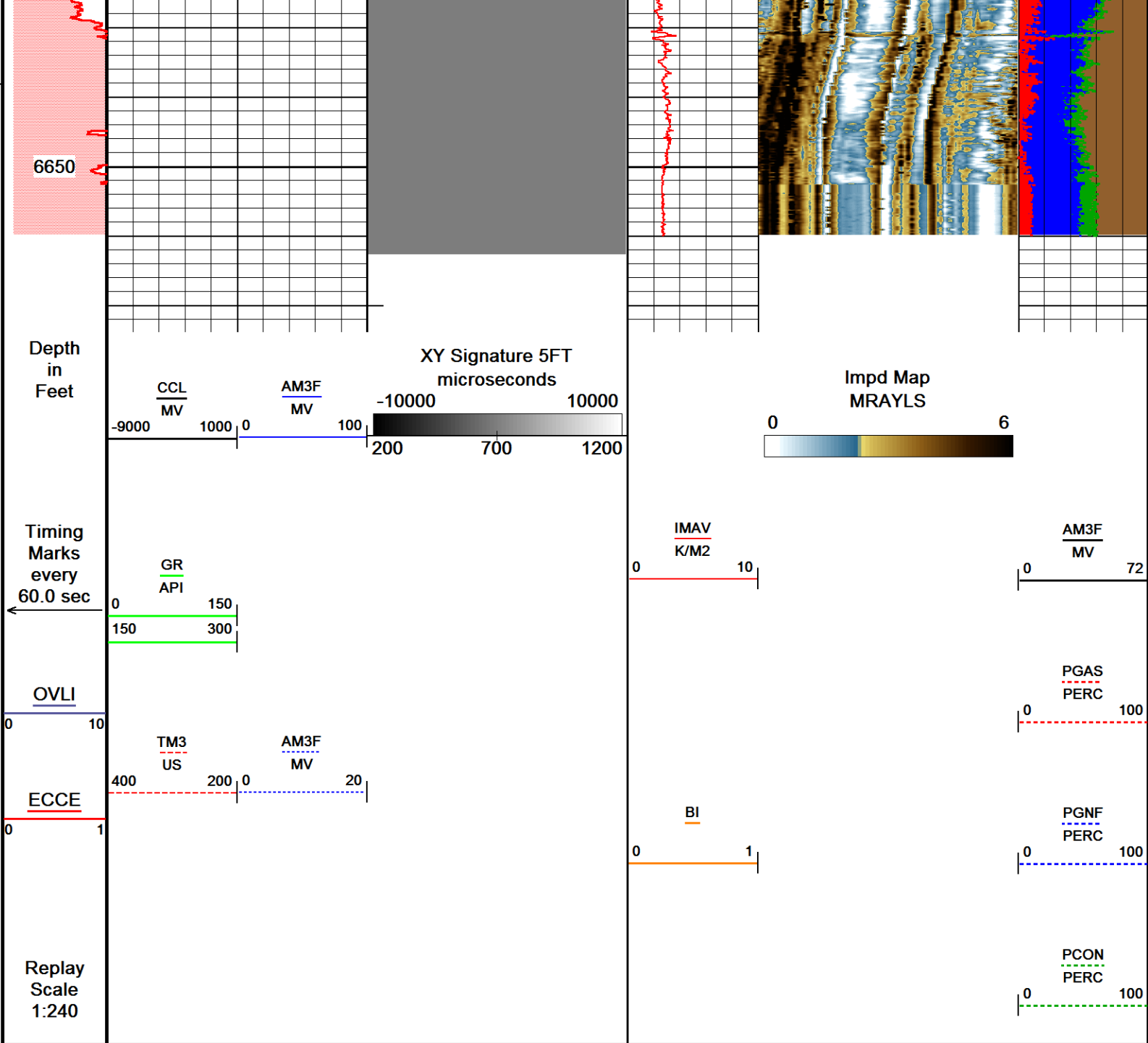












Depth Based Data - Maximum Sampling Increment 2.5cm

Plotted on 18-NOV-2016 10:53

Filename: C:\Users\197426\Desktop\EXTRACTION\WIN...\WINDER SOUTH #4 MAIN PASS_001.dta

Recorded on 17-NOV-2016 21:52

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

MAIN PASS

REPEAT PASS

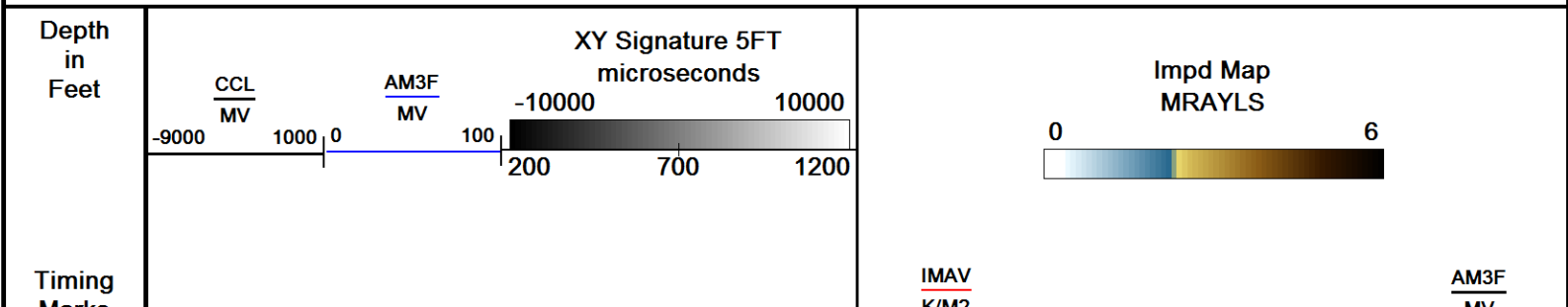
Depth Based Data - Maximum Sampling Increment 2.5cm

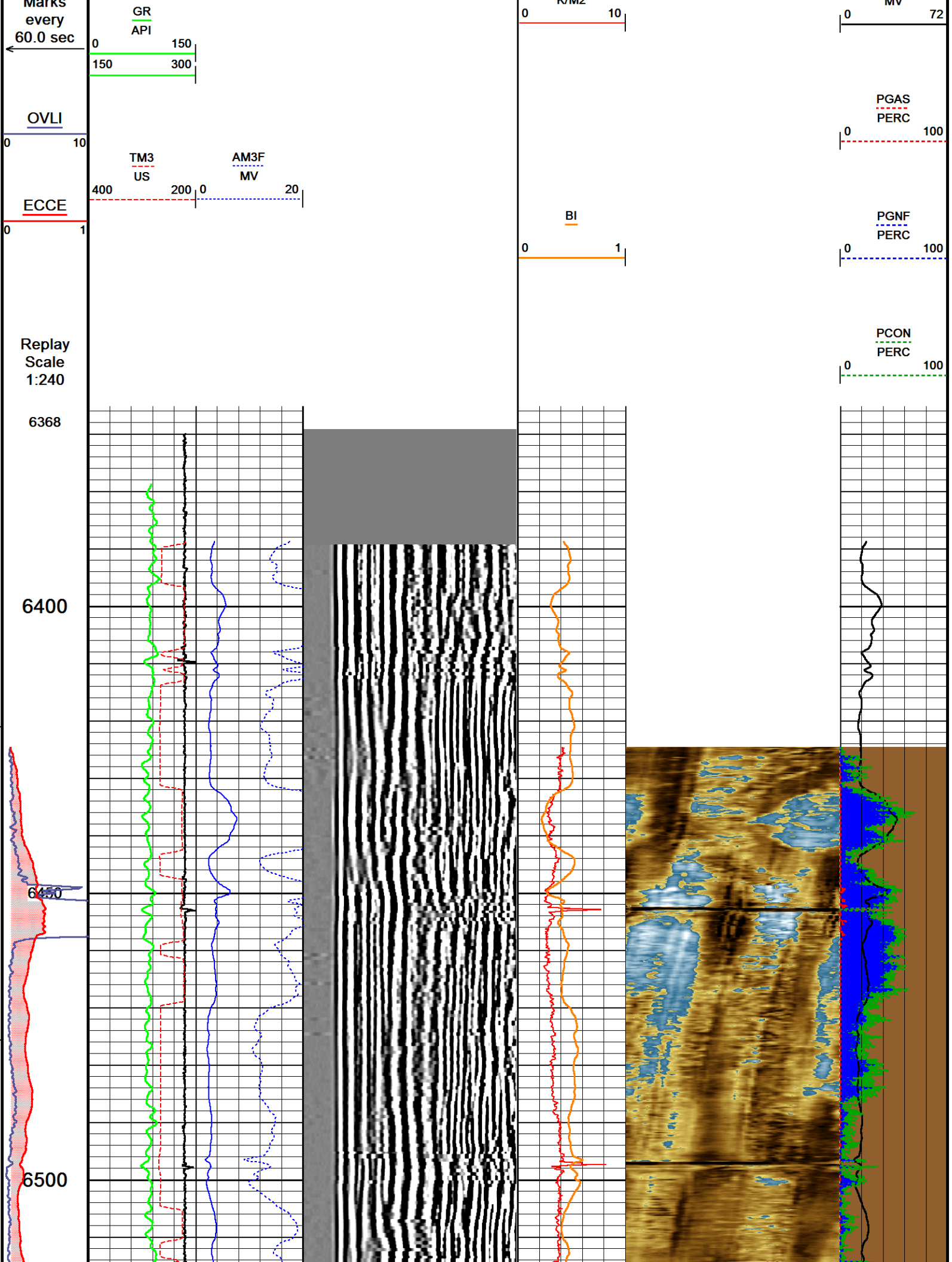
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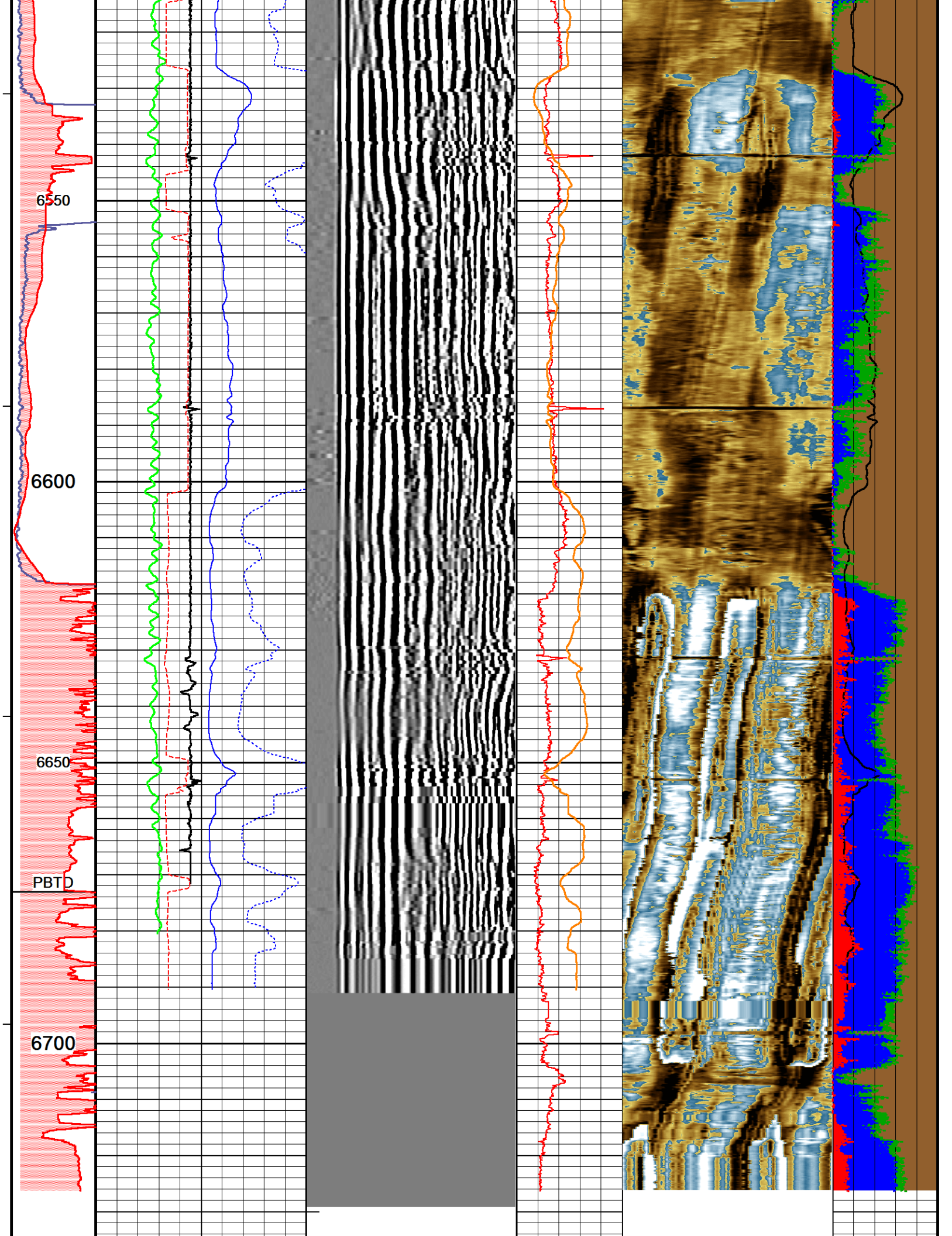
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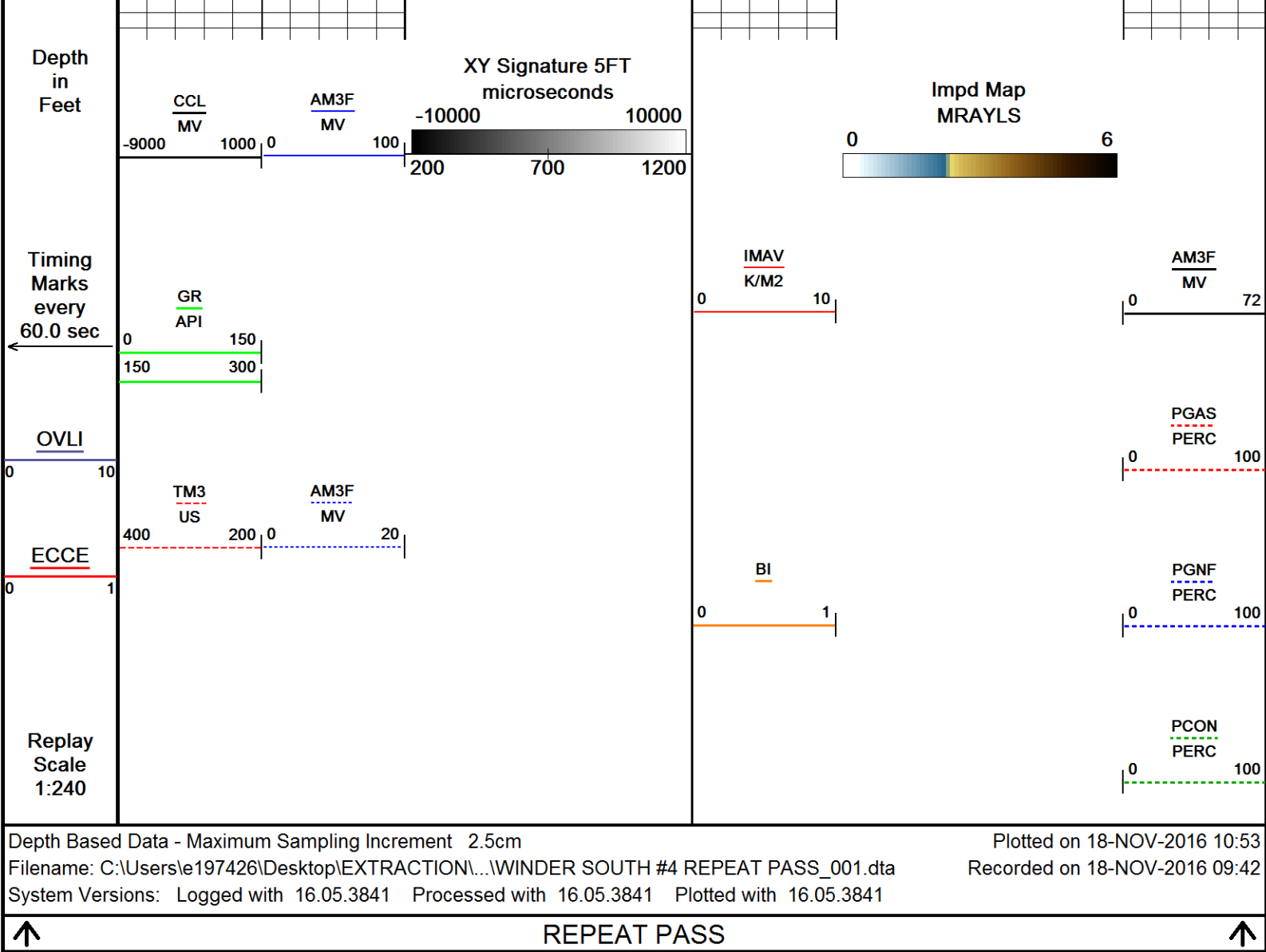
Recorded on 18-NOV-2016 09:42

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









SHOP AND FIELD CALIBRATIONS

C:\Users\le197426\Desktop\EXTRACTION\WINDER SOUTH #4\WINDER SOUTH #4 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 Serial No: 223

Calibrator No: TH 047

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
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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 21:52

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 21:52

*** 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

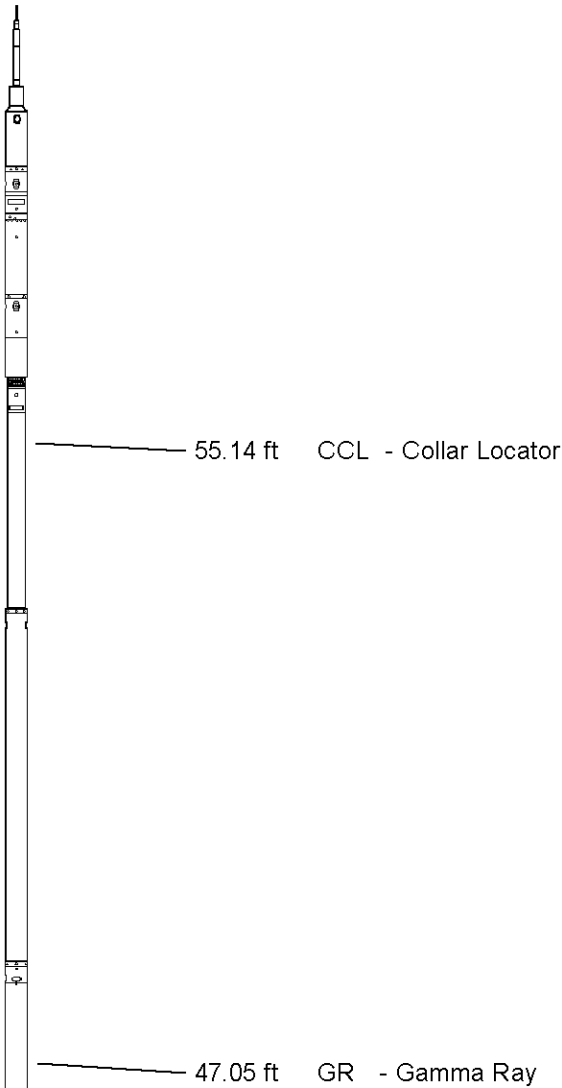
**** Constants ****

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\EXTRACTIONWINDER SOUTH #4\WINDER SOUTH #4 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



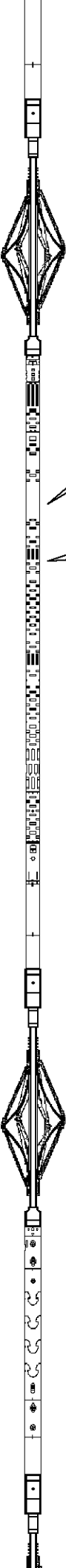
55 pin Roller Centralizer
CEN-XA 162 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

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

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



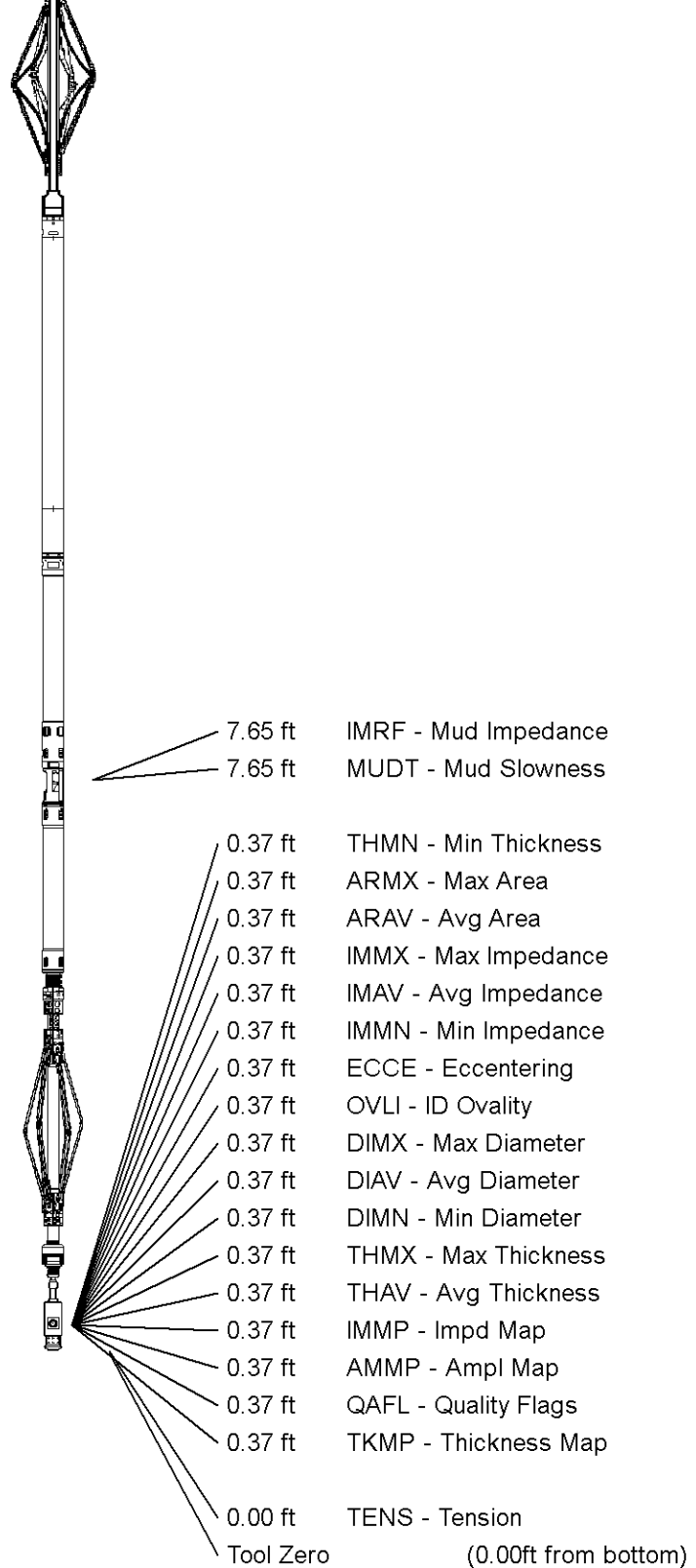
36.70 ft AM3F - Amplitude 3FT
36.70 ft TM3 - Travel Time 3FT
35.70 ft TM5 - Travel Time 5FT
35.70 ft XY5 - XY Signature 5FT

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



All measurements relative to tool zero.

COMPANY	EXTRACTION OIL & GAS
WELL	WINDER SOUTH #4
FIELD	WATTENBERG
PROVINCE/COUNTY	WELD
COUNTRY/STATE	USA / COLORADO

Elevation Kelly Bushing	0	feet	Bottom Log Interval	6660.00	feet
Elevation Drill Floor	0	feet	Depth Driller		feet
Elevation Ground Level	0	feet	Depth Logger	6673.00	feet



Weatherford®

SECUREVIEW

ULTRAVIEW / BONDVIEW

CEMENT ANALYSIS