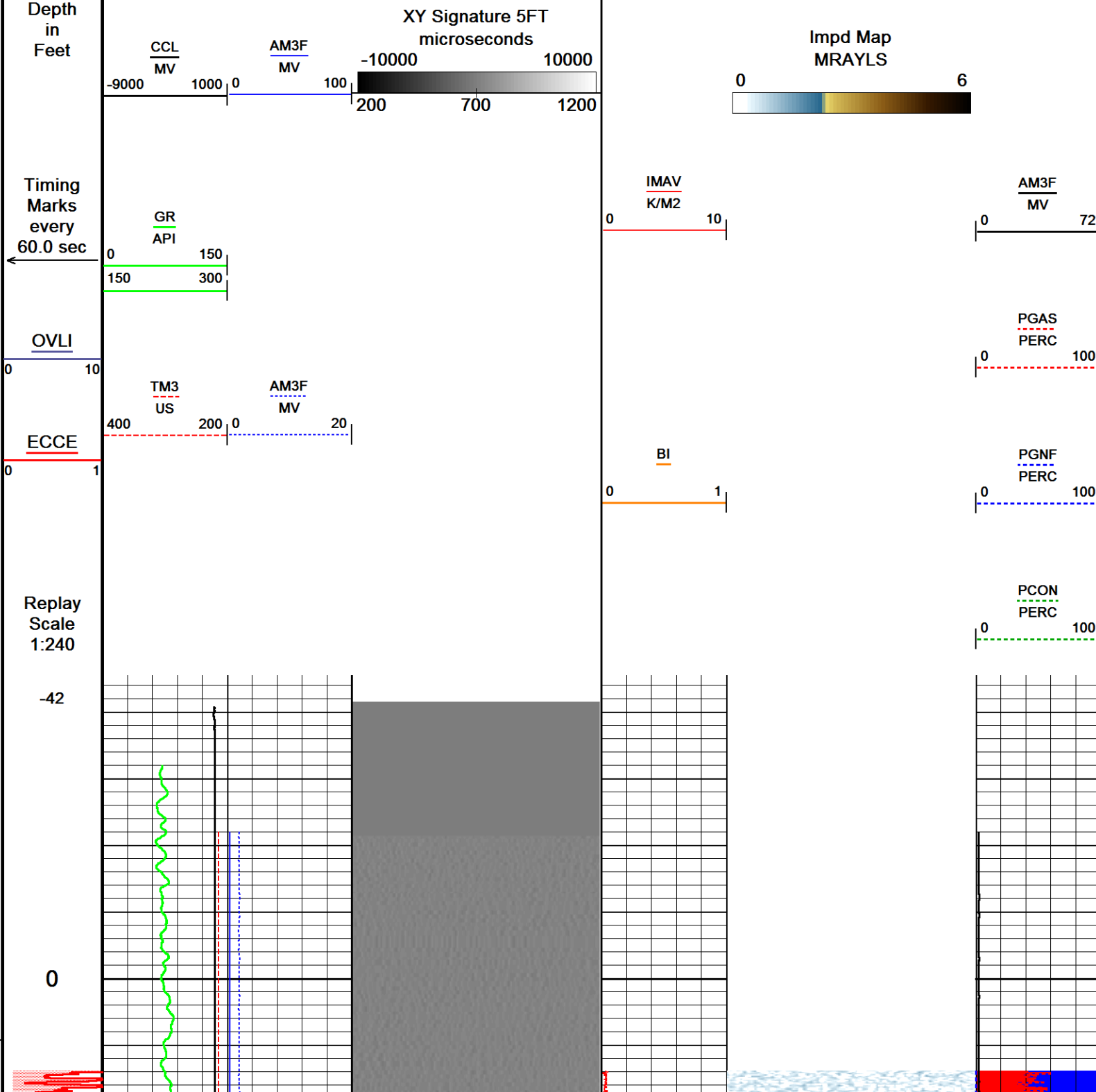
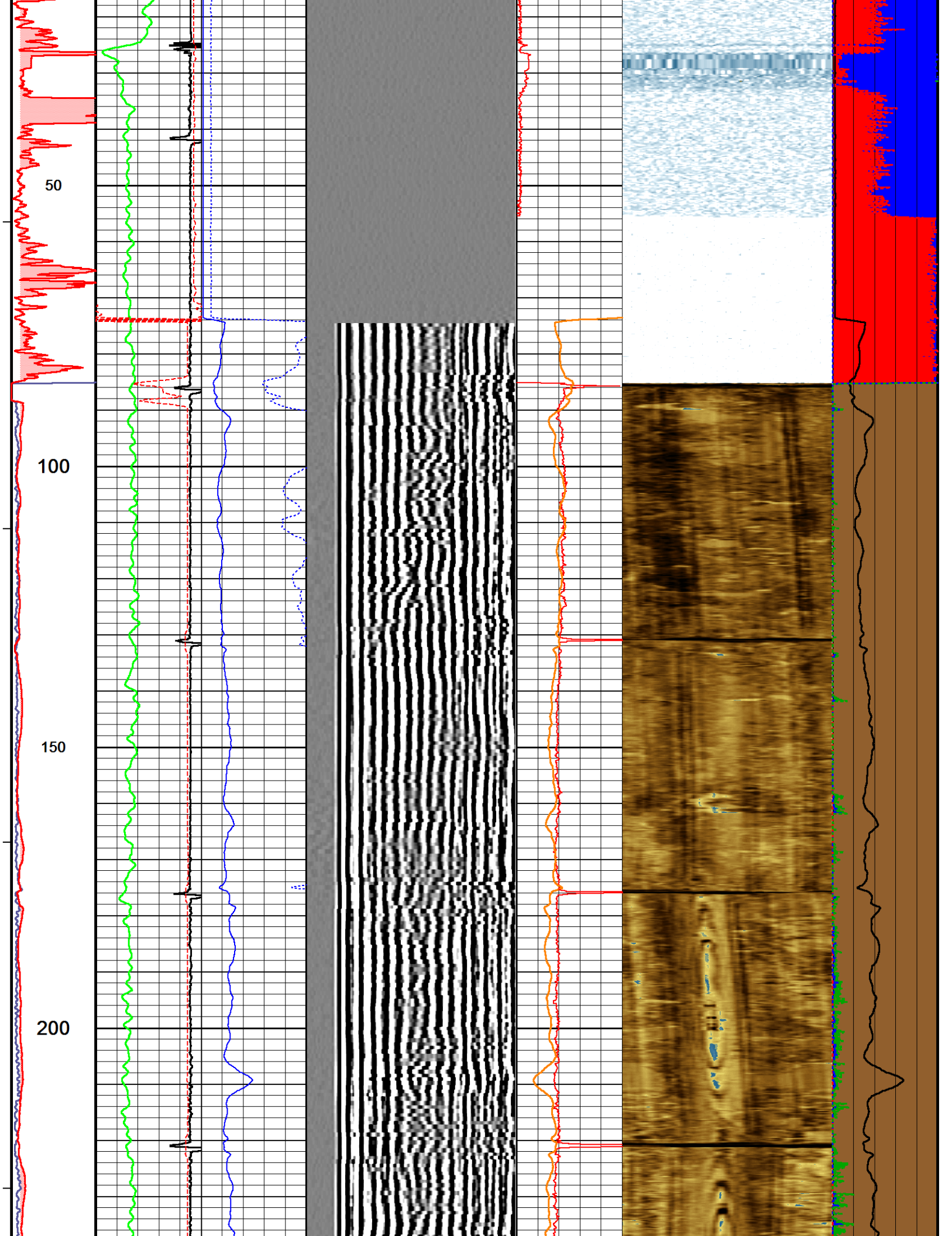
										<div>SECUREVIEW</div> <div>ULTRAVIEW / BONDVIEW</div> <div>CEMENT ANALYSIS</div>									
COMPANY										EXTRACTION OIL & GAS									
WELL										WINDER SOUTH #9									
FIELD										WATTENBERG									
PROVINCE/COUNTY										WELD									
COUNTRY/STATE										USA / COLORADO									
LOCATION										SE NE 9-6N-67W									
SEC 9		TWP 6N		RGE 67W		Other Services													
Latitude																			
Longitude																			
API Number		05-123-43406																	
Permanent Datum GROUND, Elevation										feet									
Log Measured From KB																			
Drilling Measured From KB																			
Date										17-NOV-2016									
Run Number										ONE									
Service Order										7145-166445594									
Type Log										URS / CBT									
Depth Driller																			
Depth Logger										7128.00									
Top Log Interval										0.00									
Bottom Log Interval										7128.00									
Hole Fluid Type										WATER									
Hole Fluid Level										85.00									
Restriction ID										4.778									
Max Recorded Temp										198.00									
Well Head Pressure										0.00									
Well Head Equipment										NONE									
Time Well Ready										ON ARRIVAL									
Time Logger Bottom																			
Unit										14338									
Equipment Name										WSS-E									
Base										CASPER									
Recorded By										K.HUSETH									
Witnessed By										NOT WITNESSED									

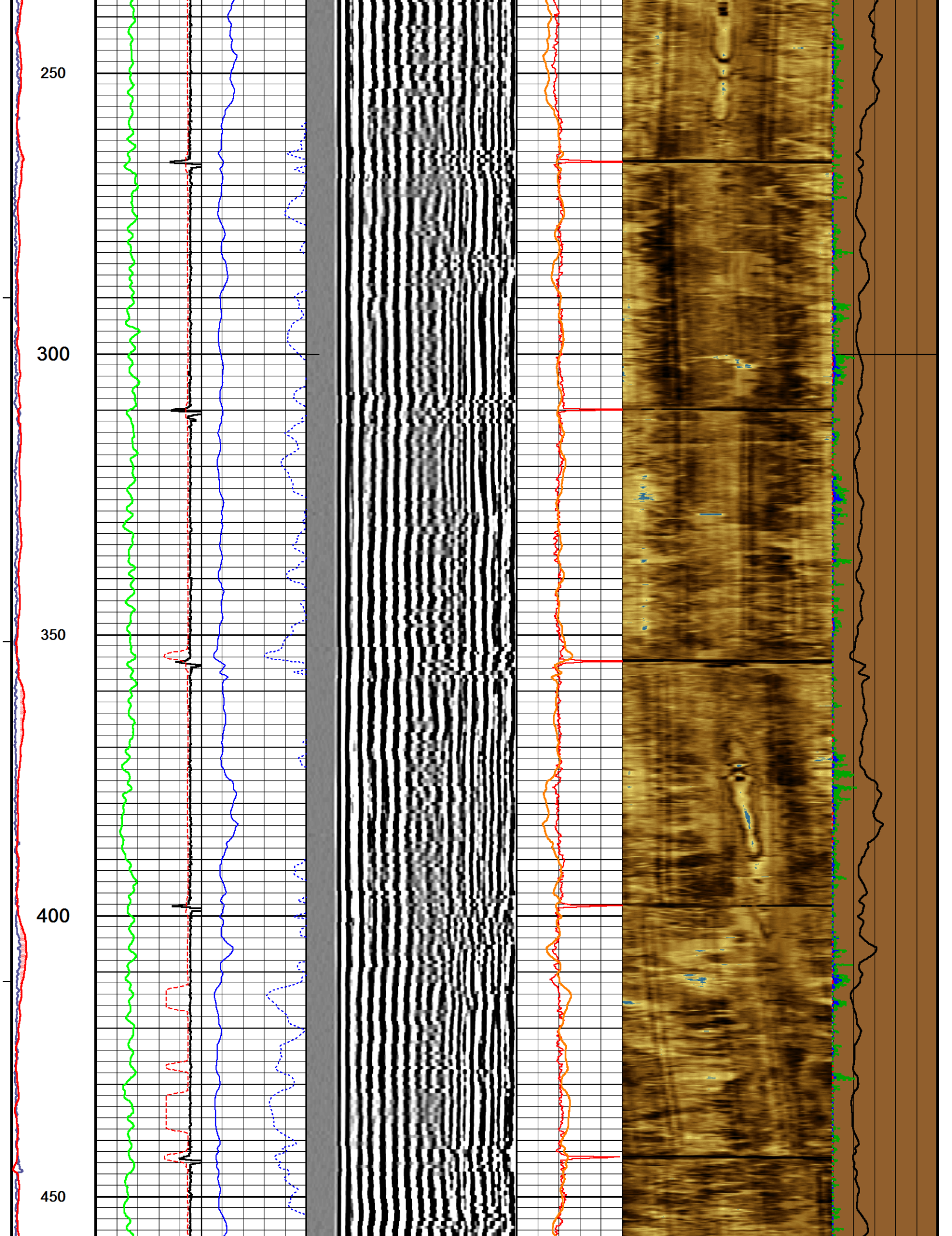
CASING / TUBING RECORD						
Type	Grade	TypeJoint	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE			9.625	0.00	1556.00	36.00
PRODUCTION	P-110		5.500	0.00	16963.00	20.00

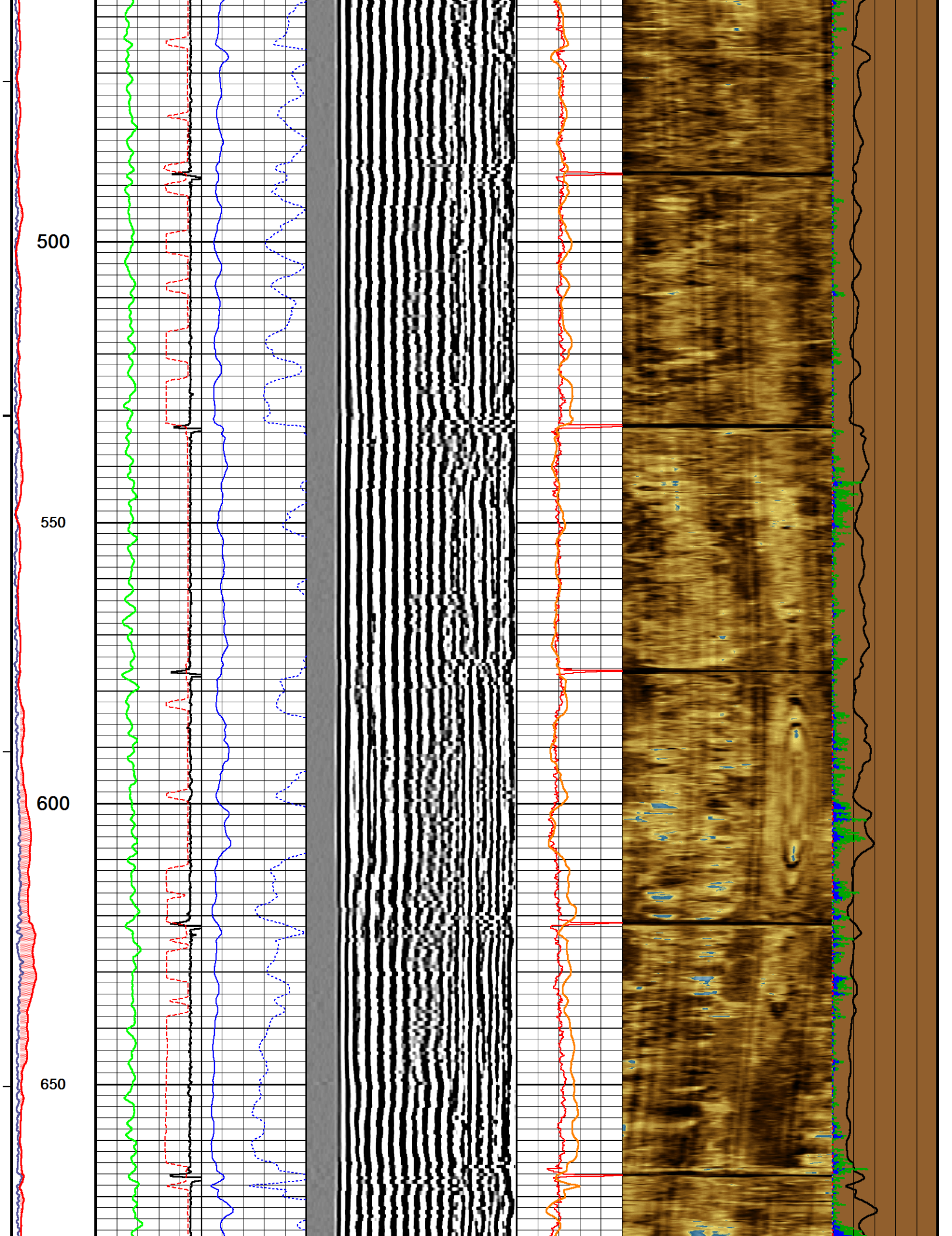
REMARKS
ULTRASONIC RADIAL SCANNER LOG CORRELATED TO RIG KB @ 25 FT ABOVE GROUND LEVEL CEMENTING DATA: LEAD: ELASTICEM 150 SACKS, 13.2LB/GAL, 1.57FT^3/SACK TAIL: ELASTICEM W/ SUPER CBL, 2100 SACKS, 13.2LB/GAL, 1.57FT^3/SACK BELOW SURFACE CASING THE TOOL HAD MANY AREAS WHERE IT EXPERIENCED DECENTRALIZATION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

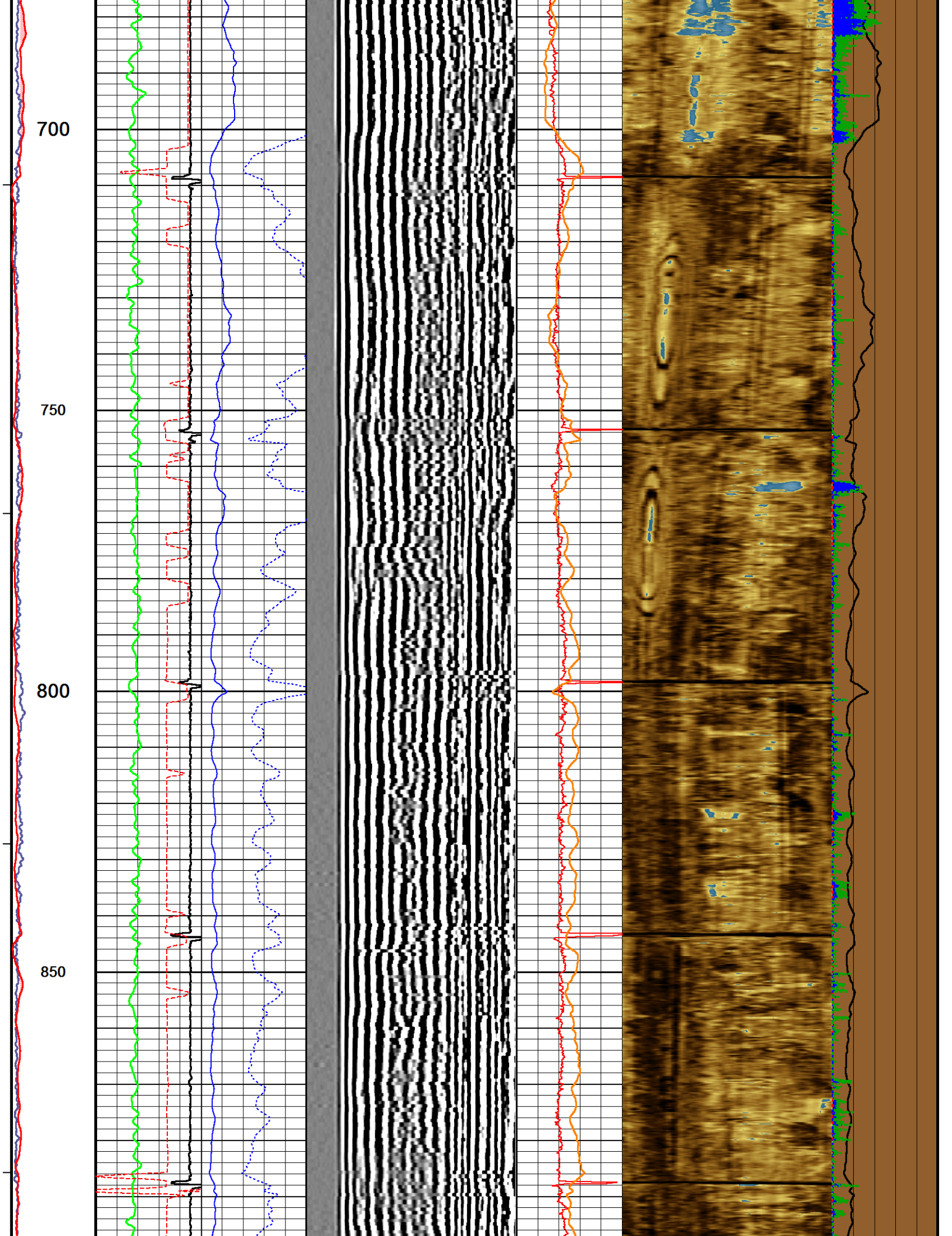
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will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

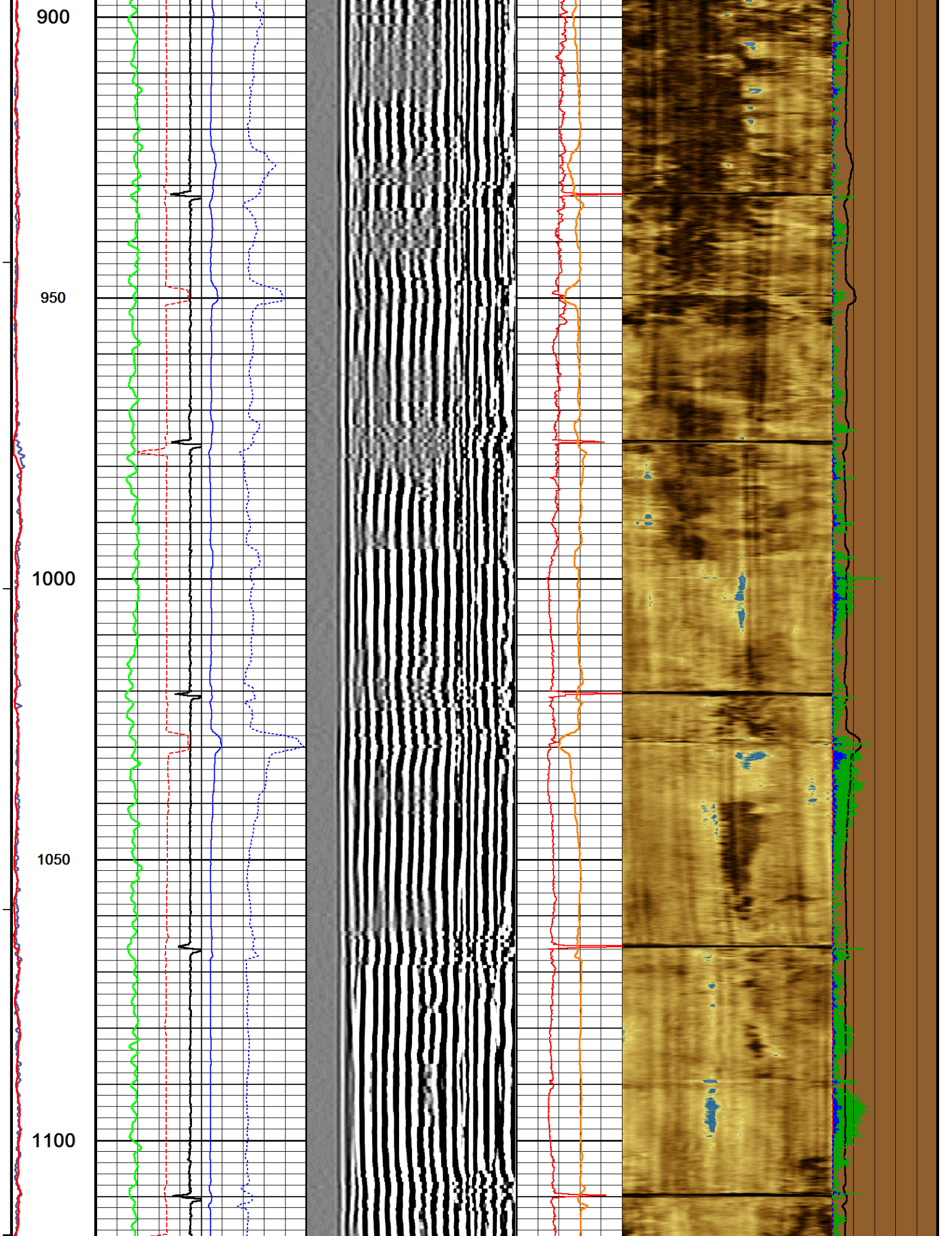


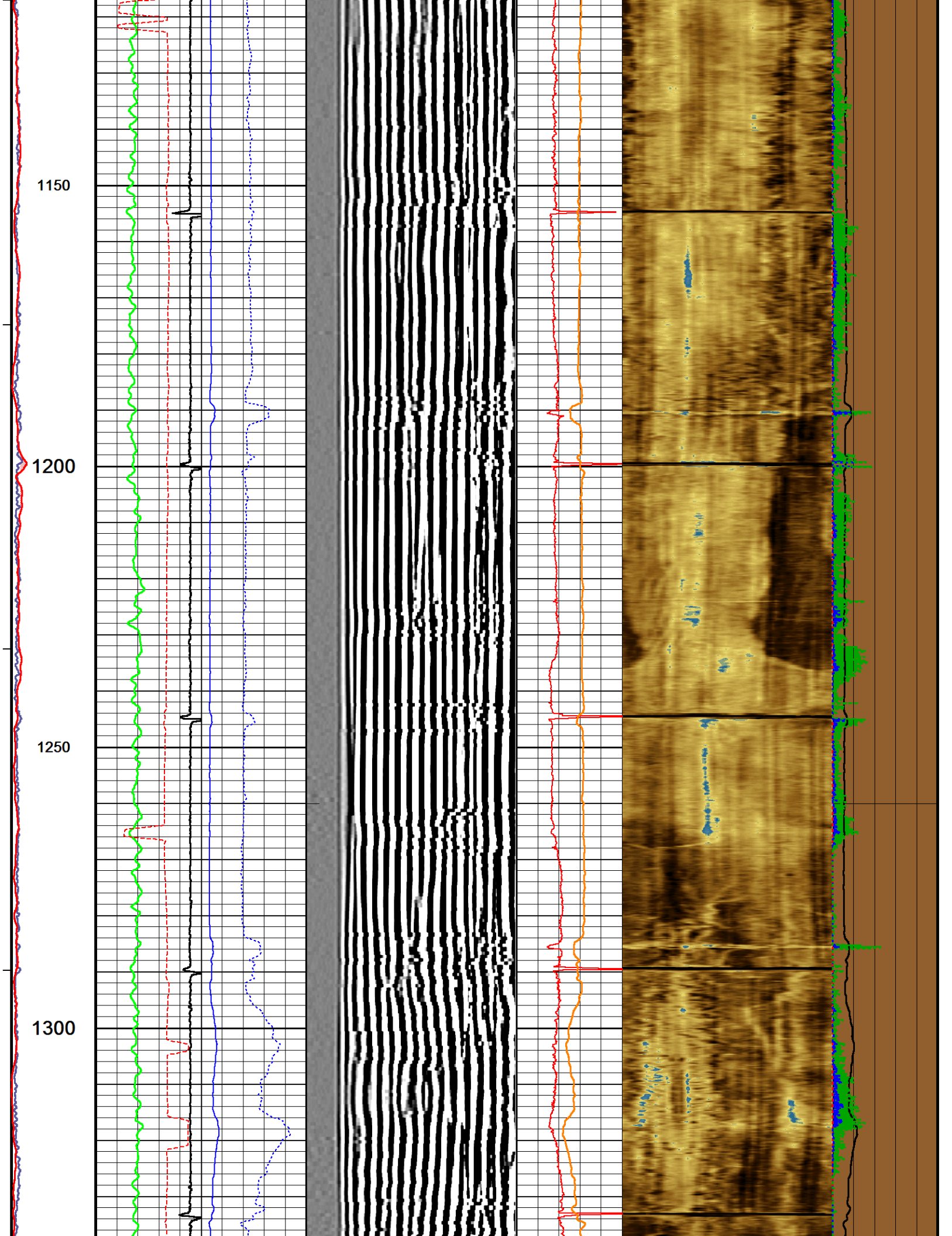


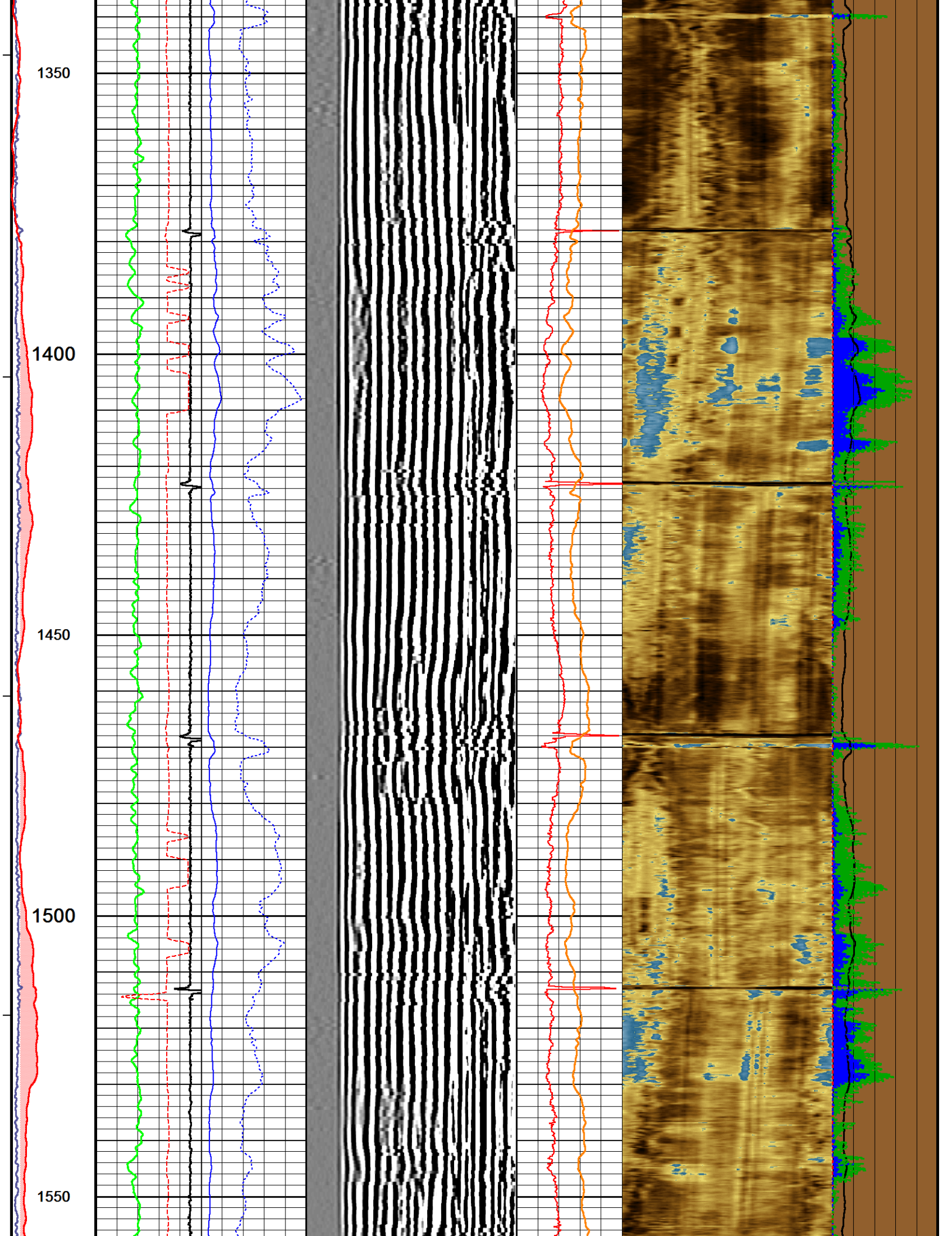


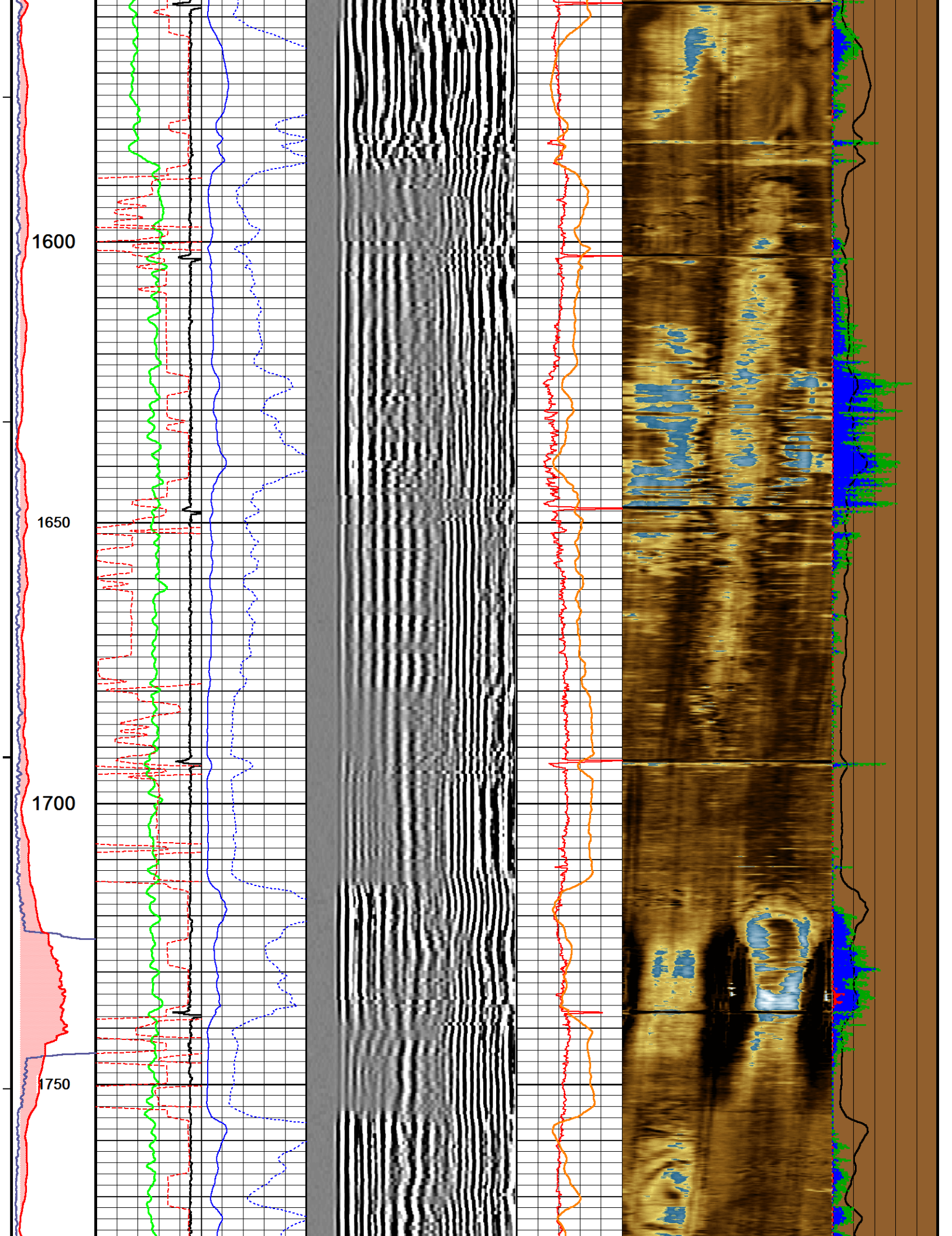


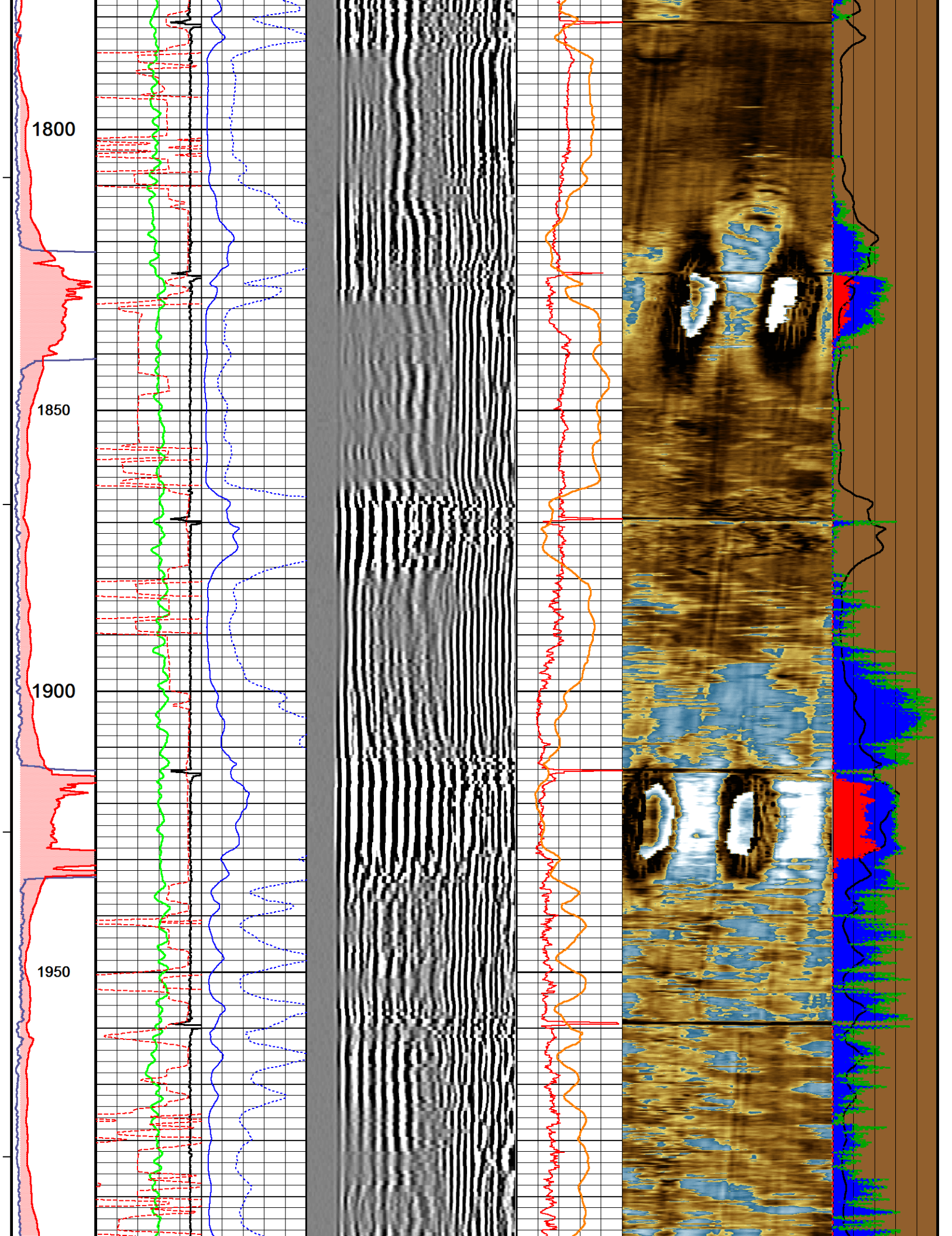


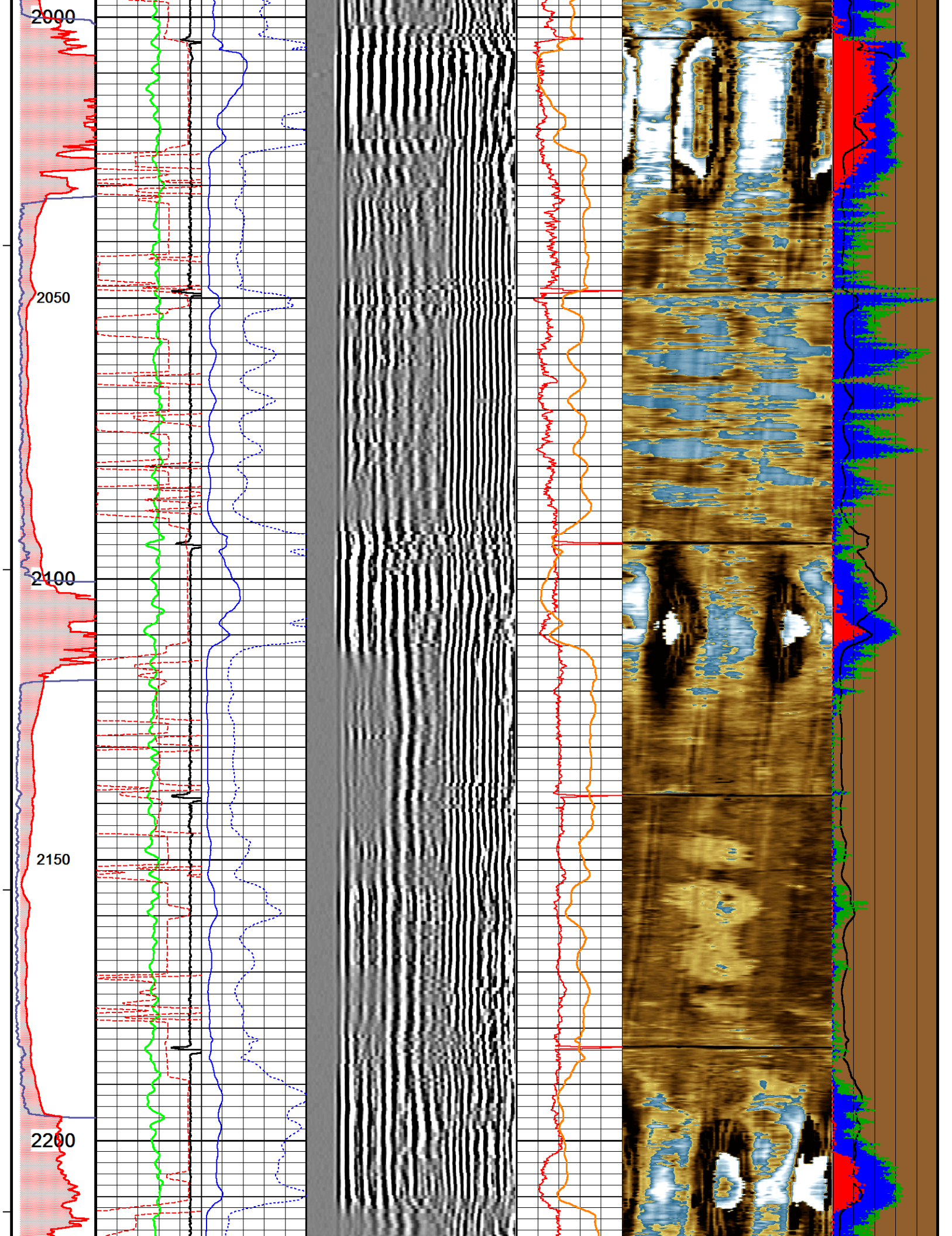


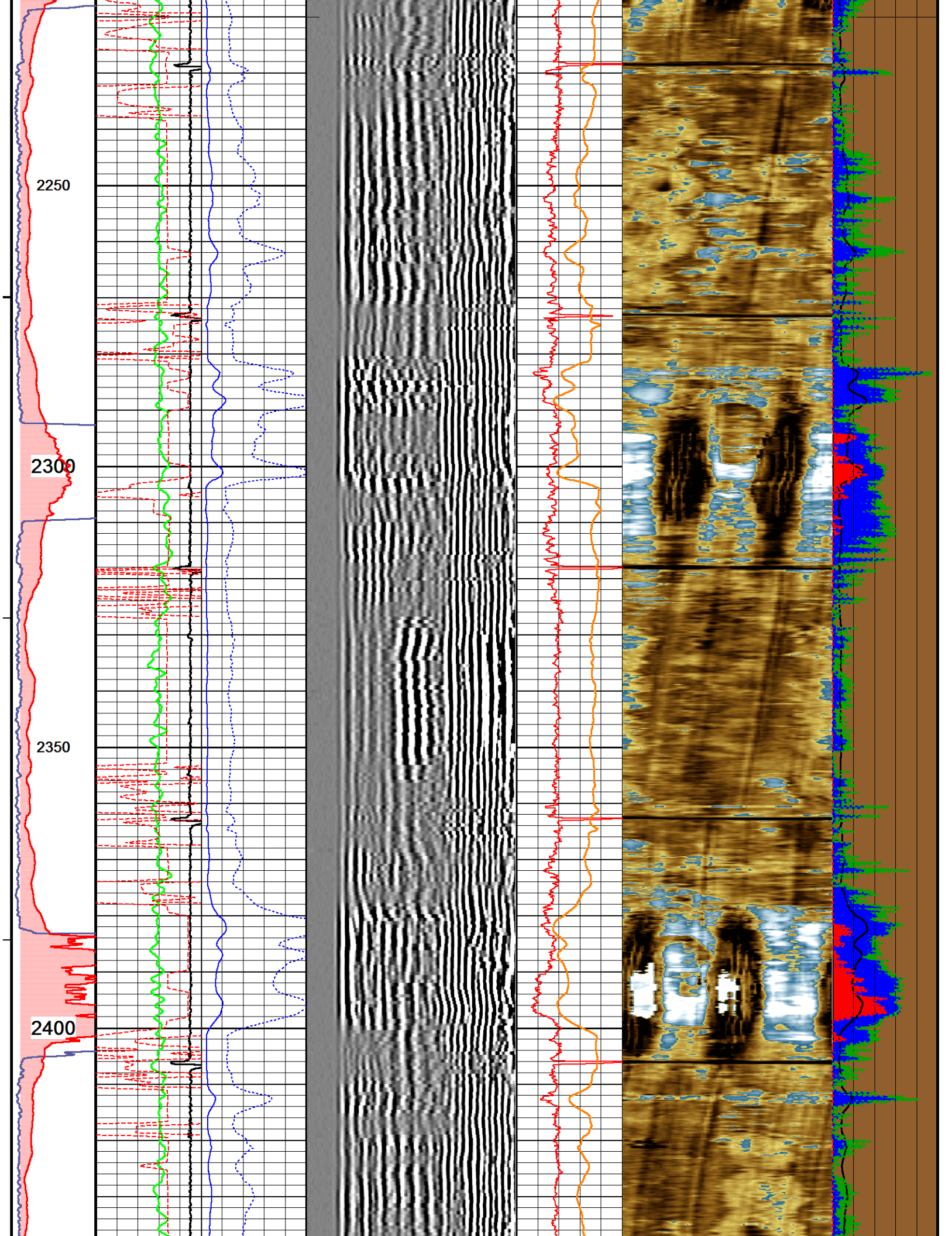


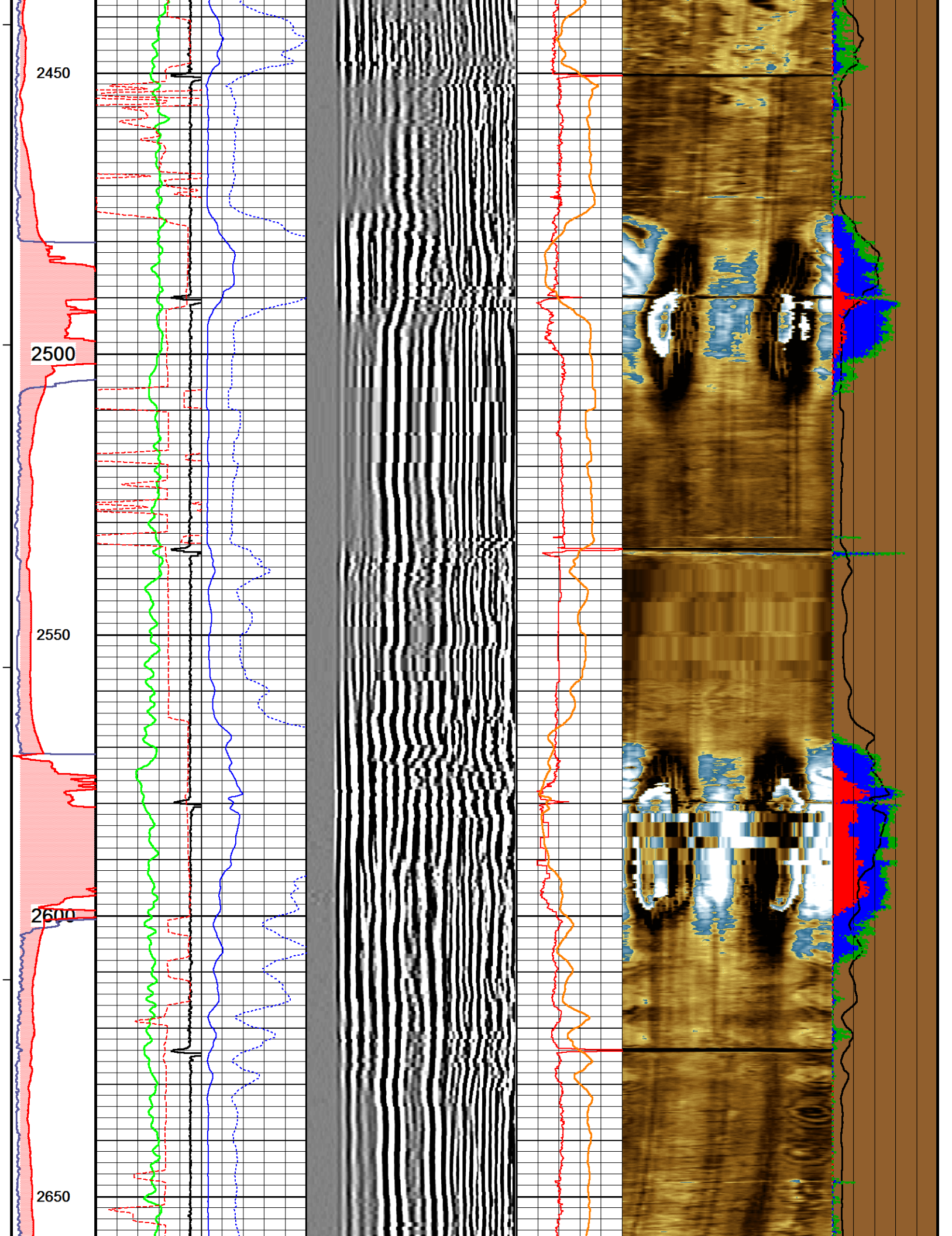


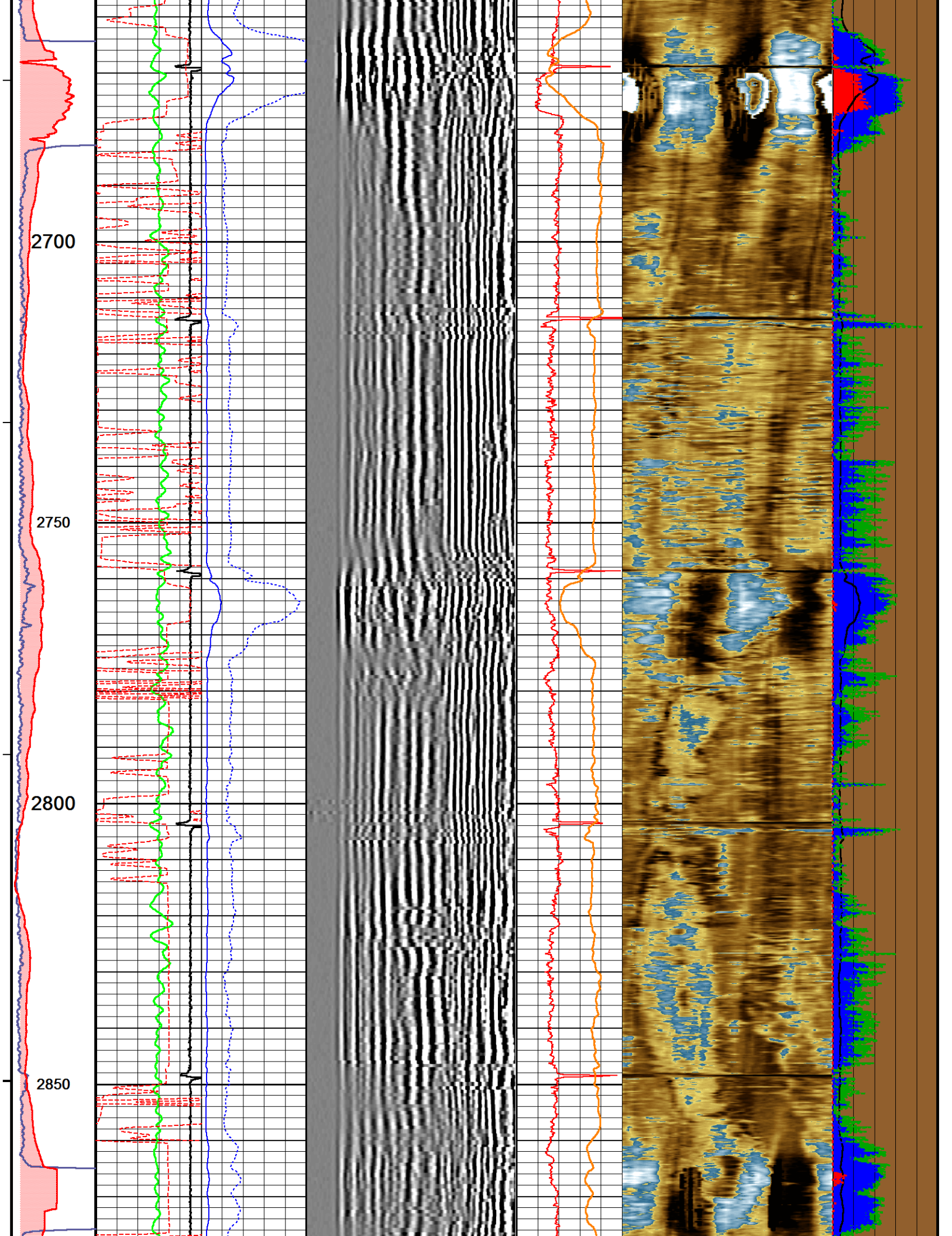


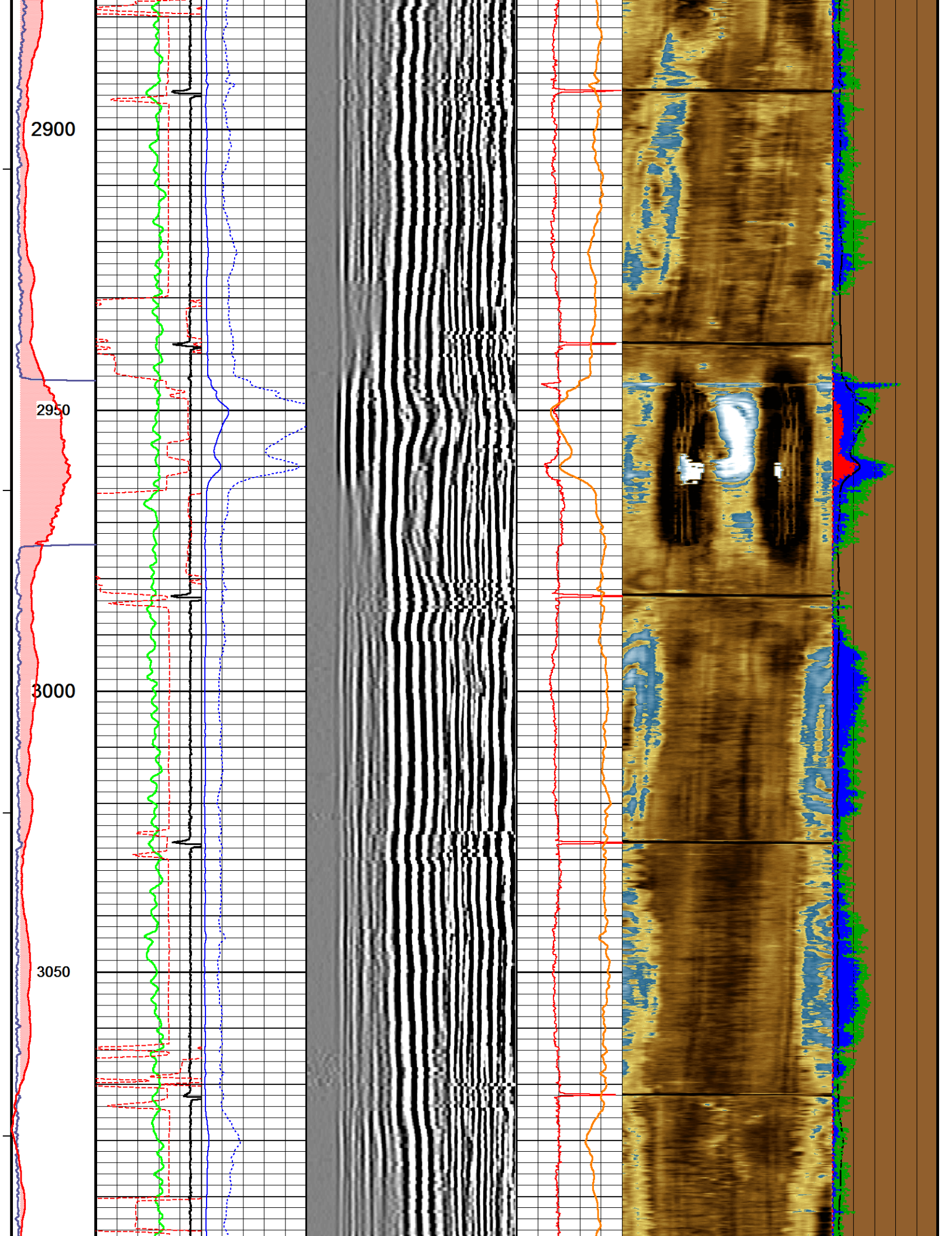


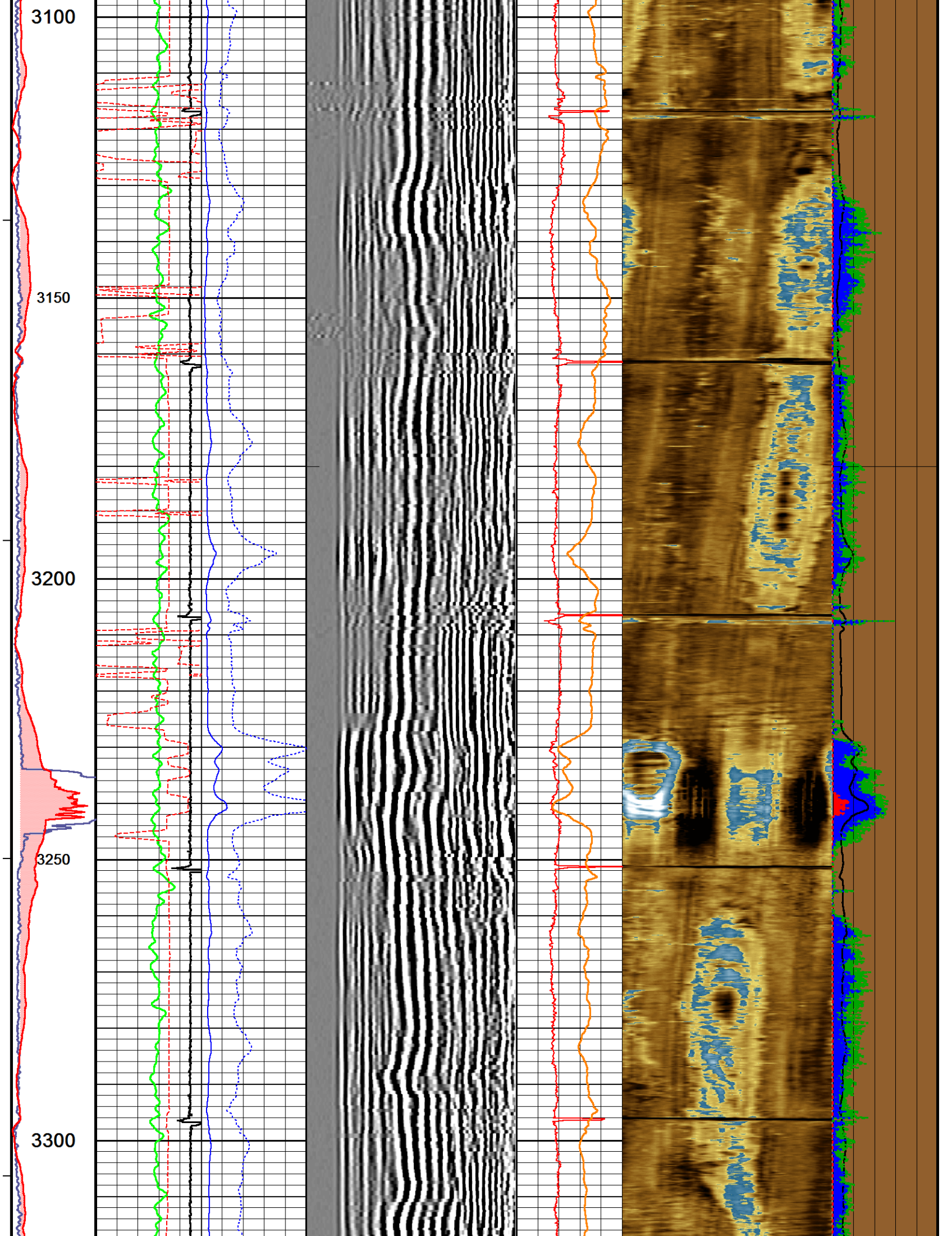


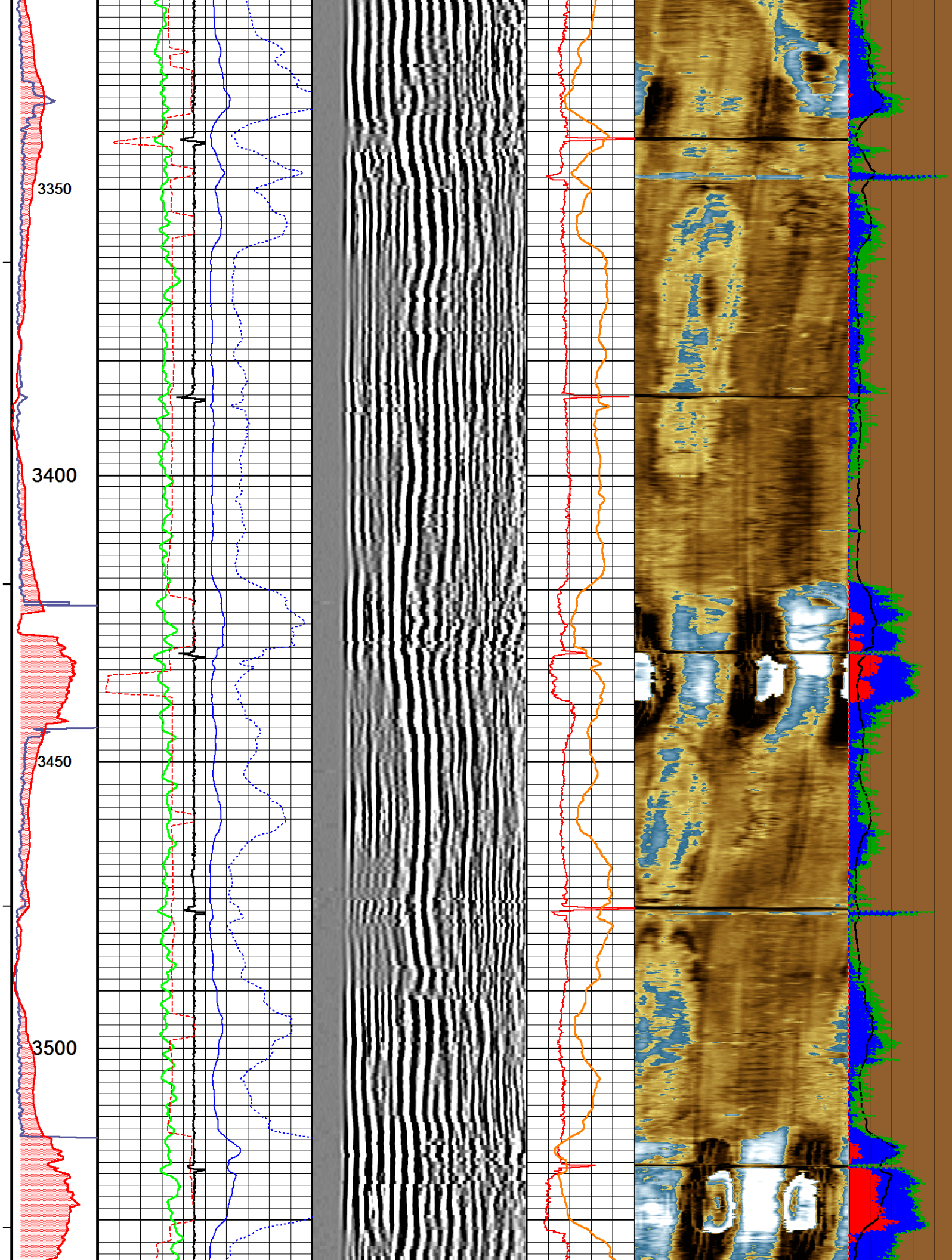


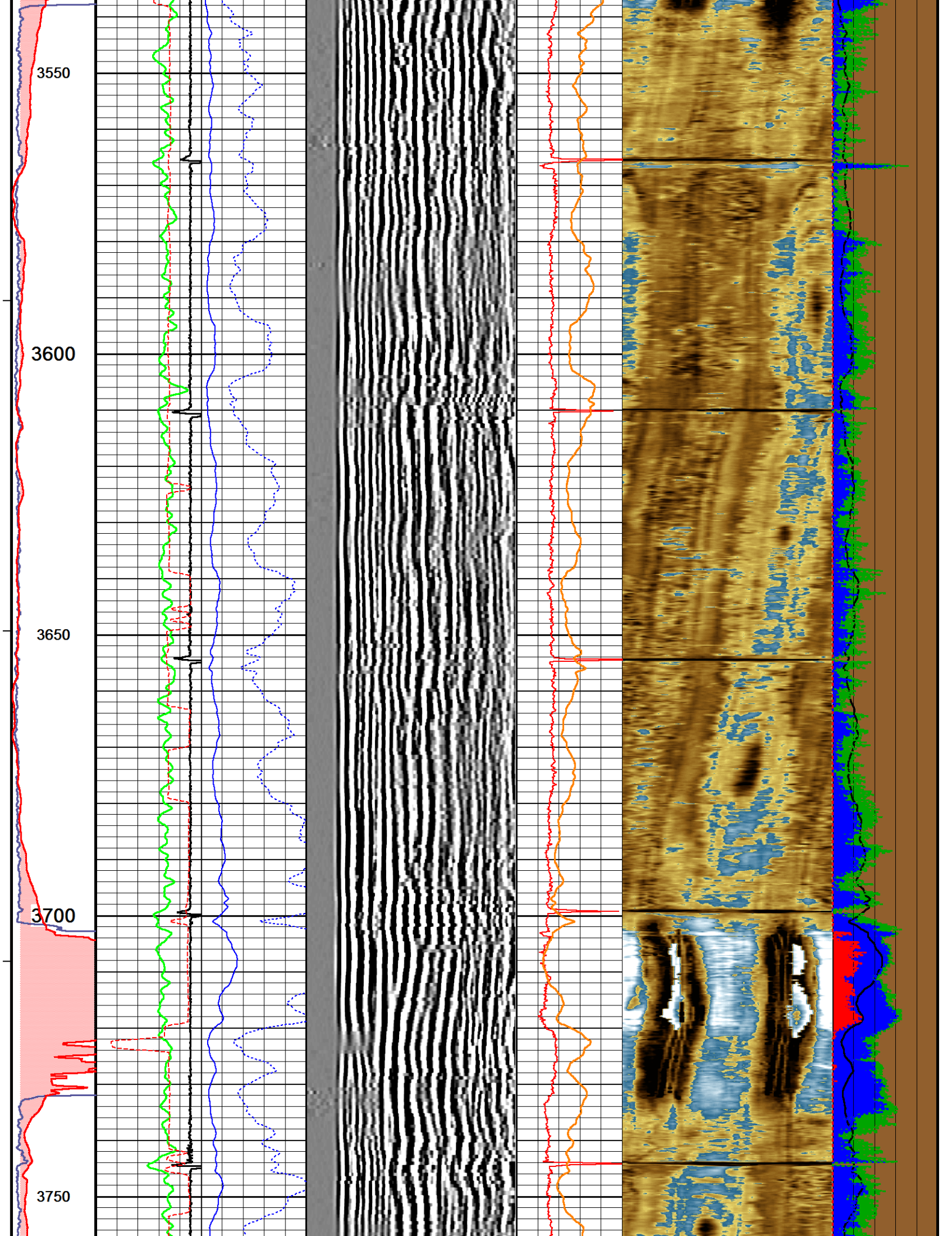


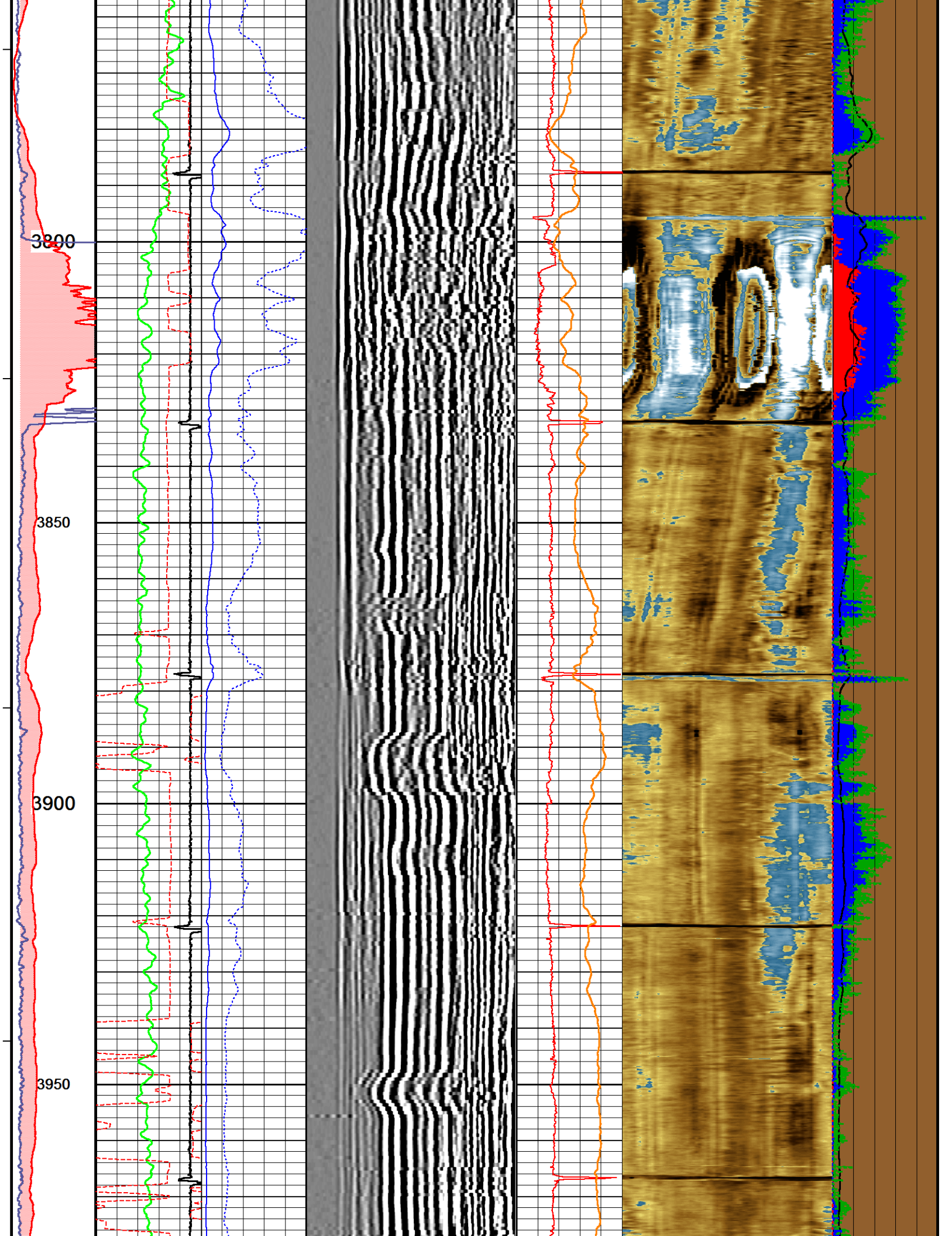


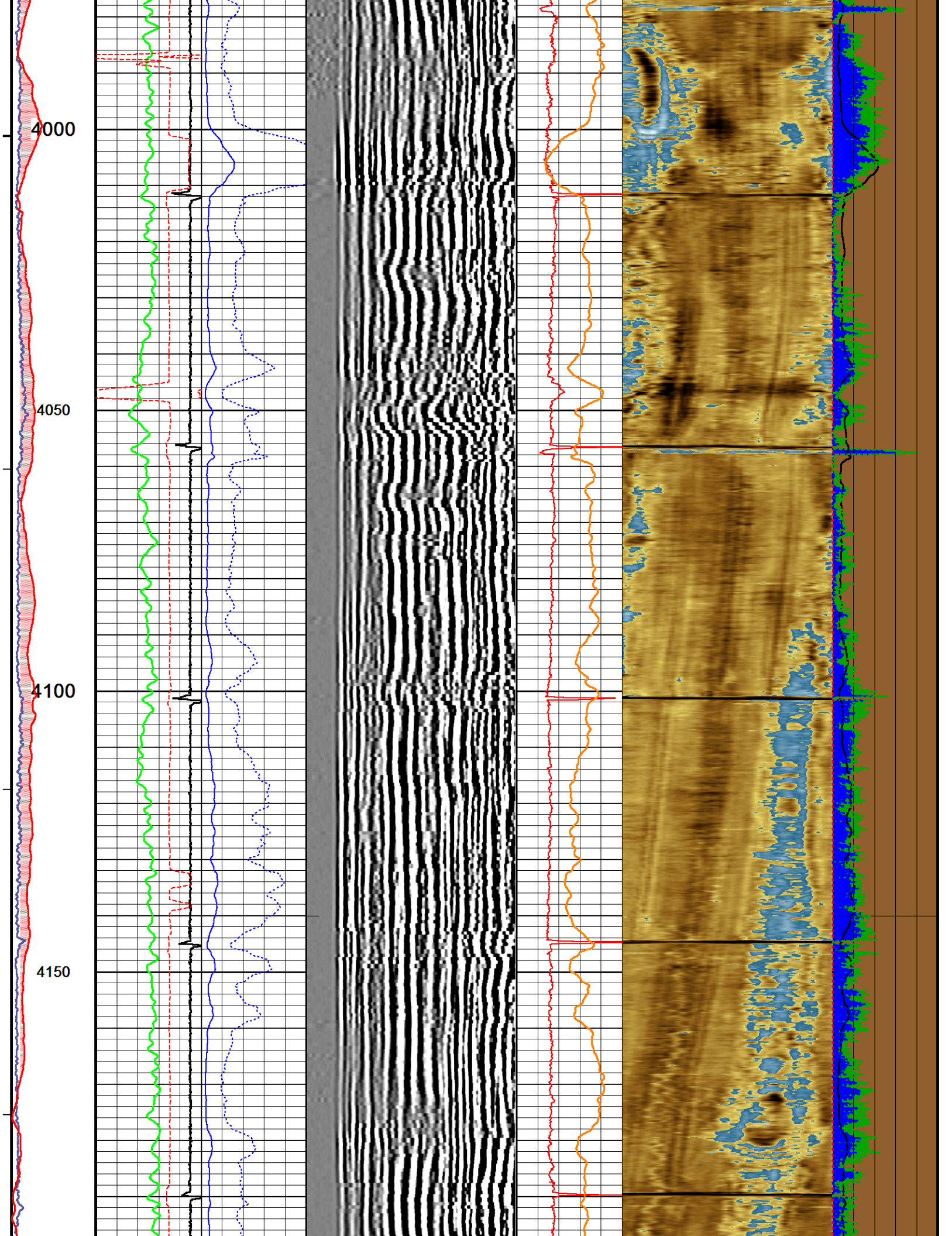


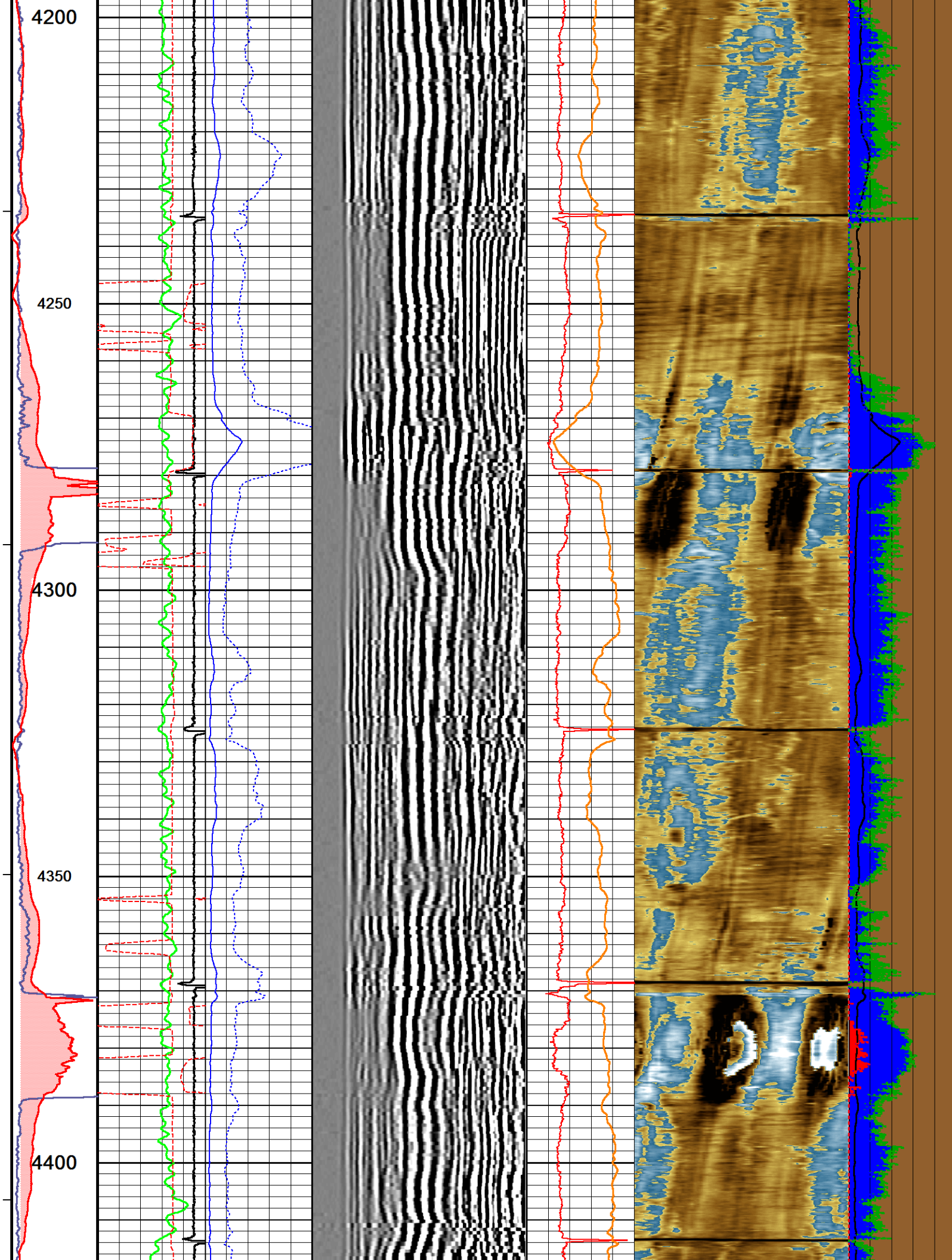


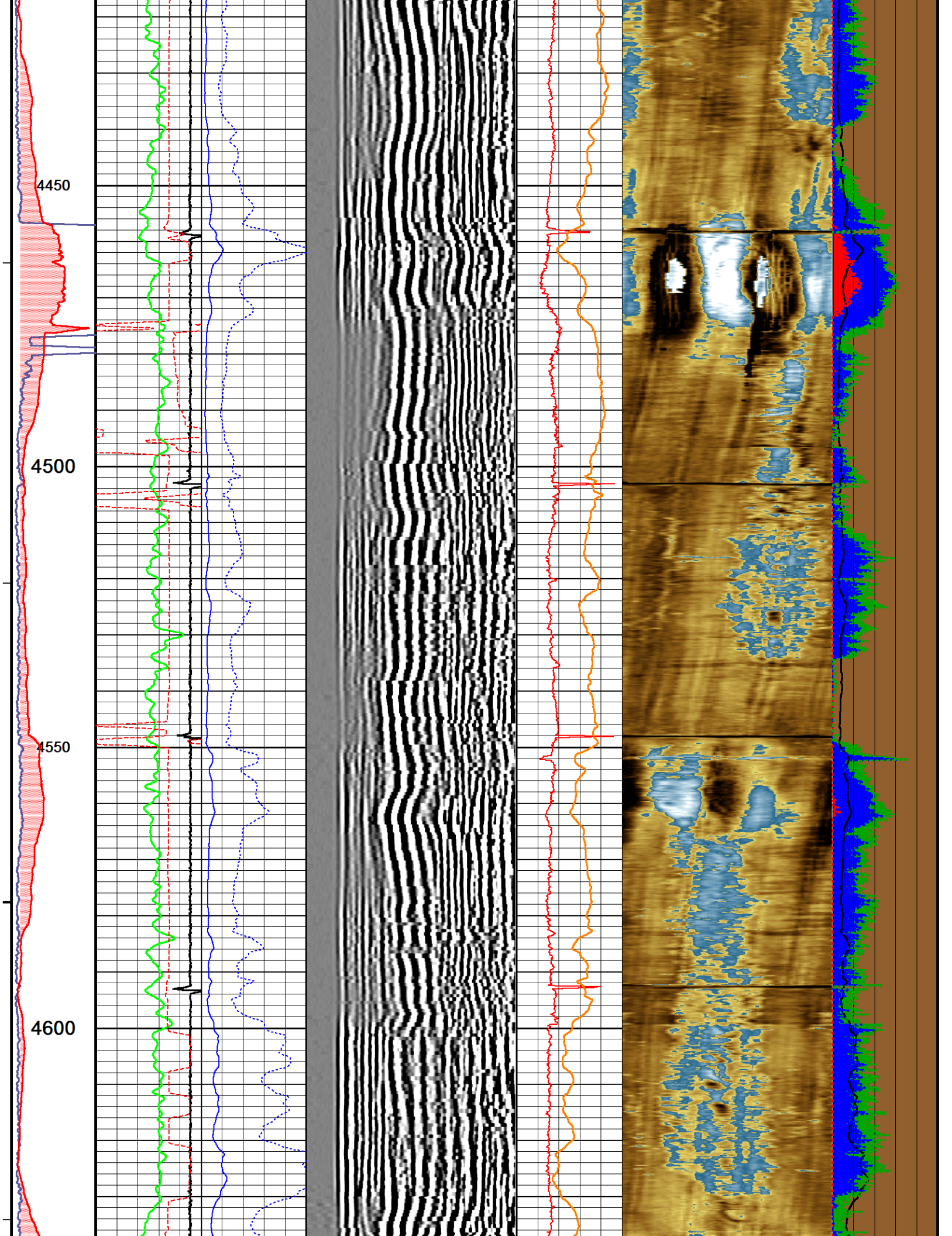


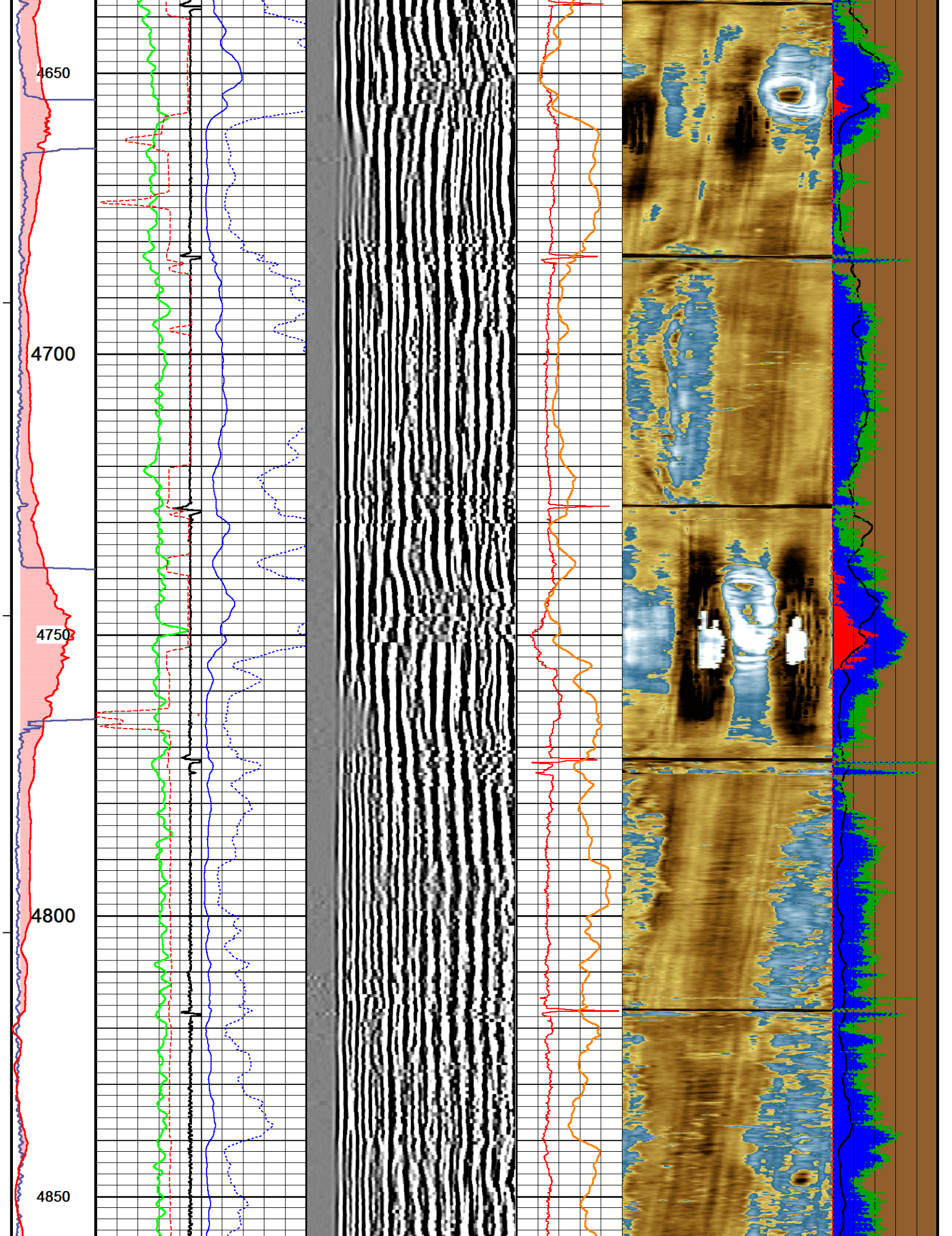


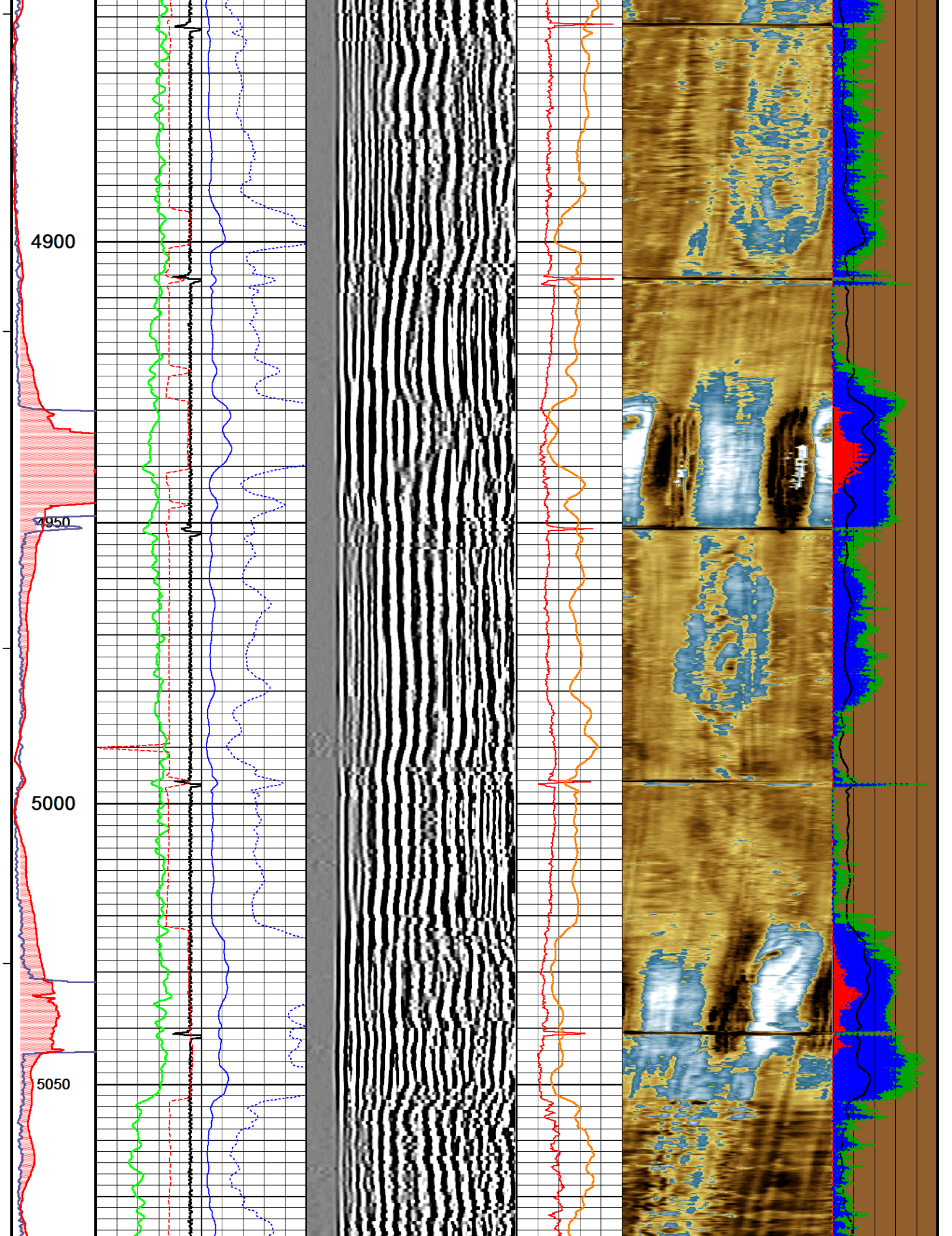


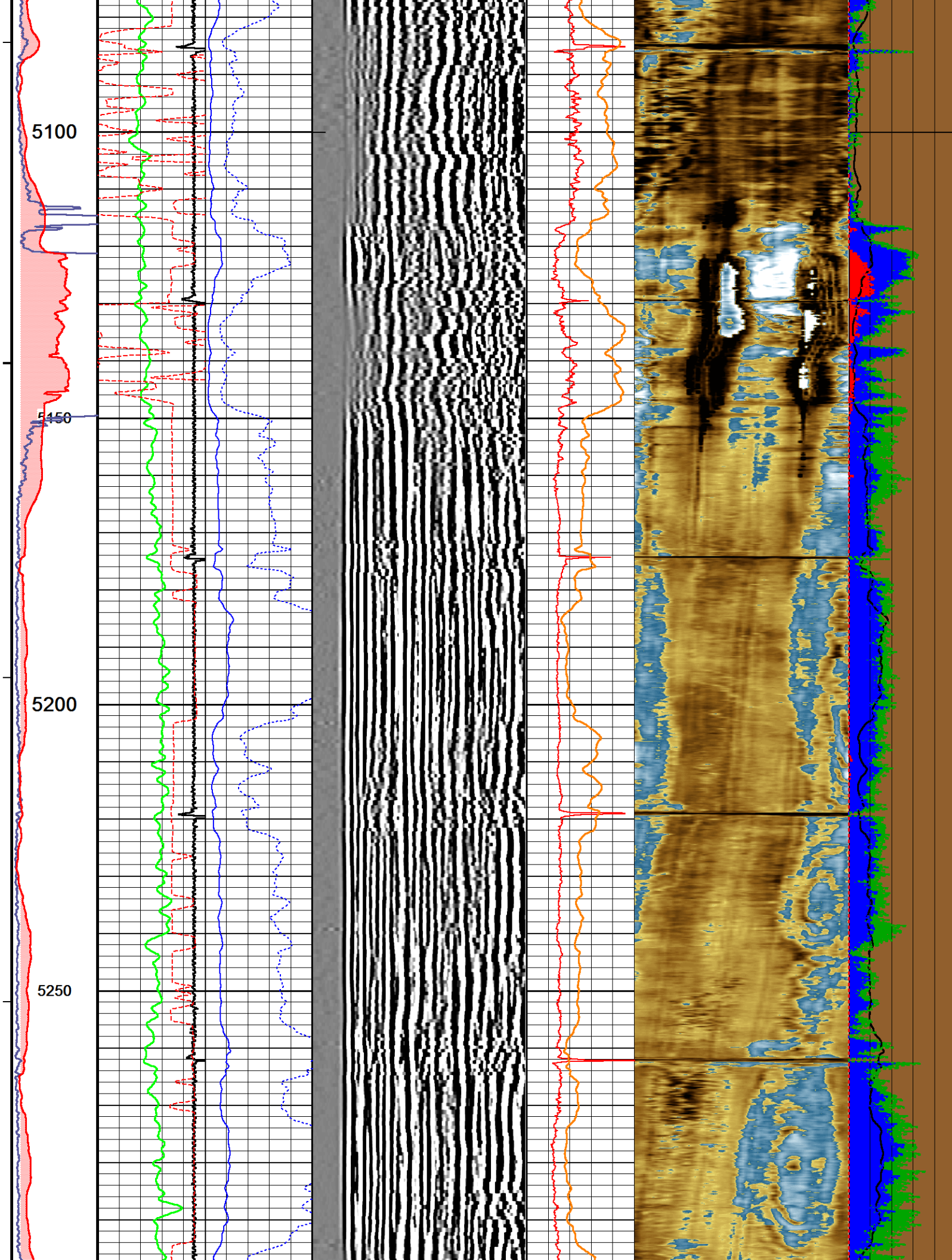


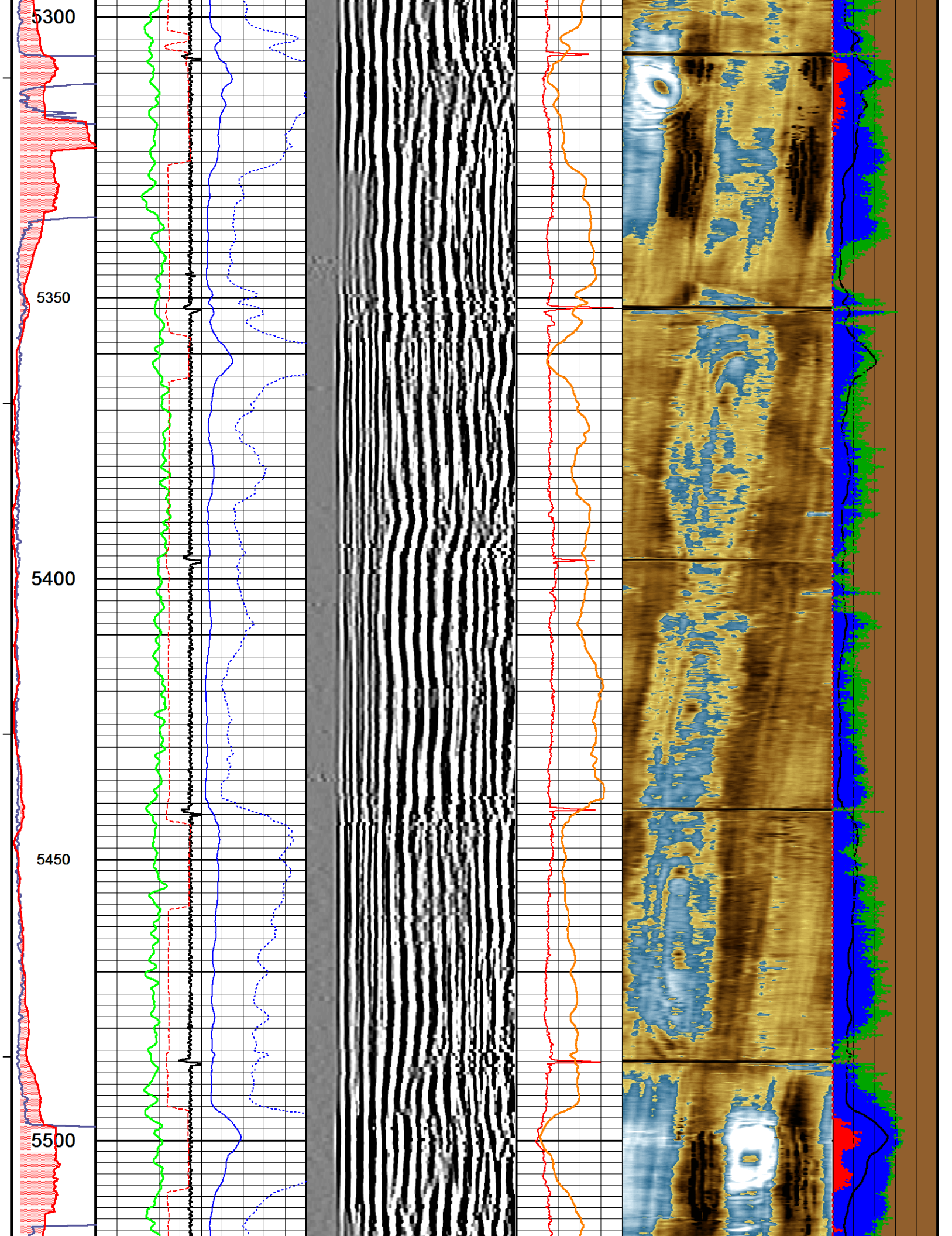


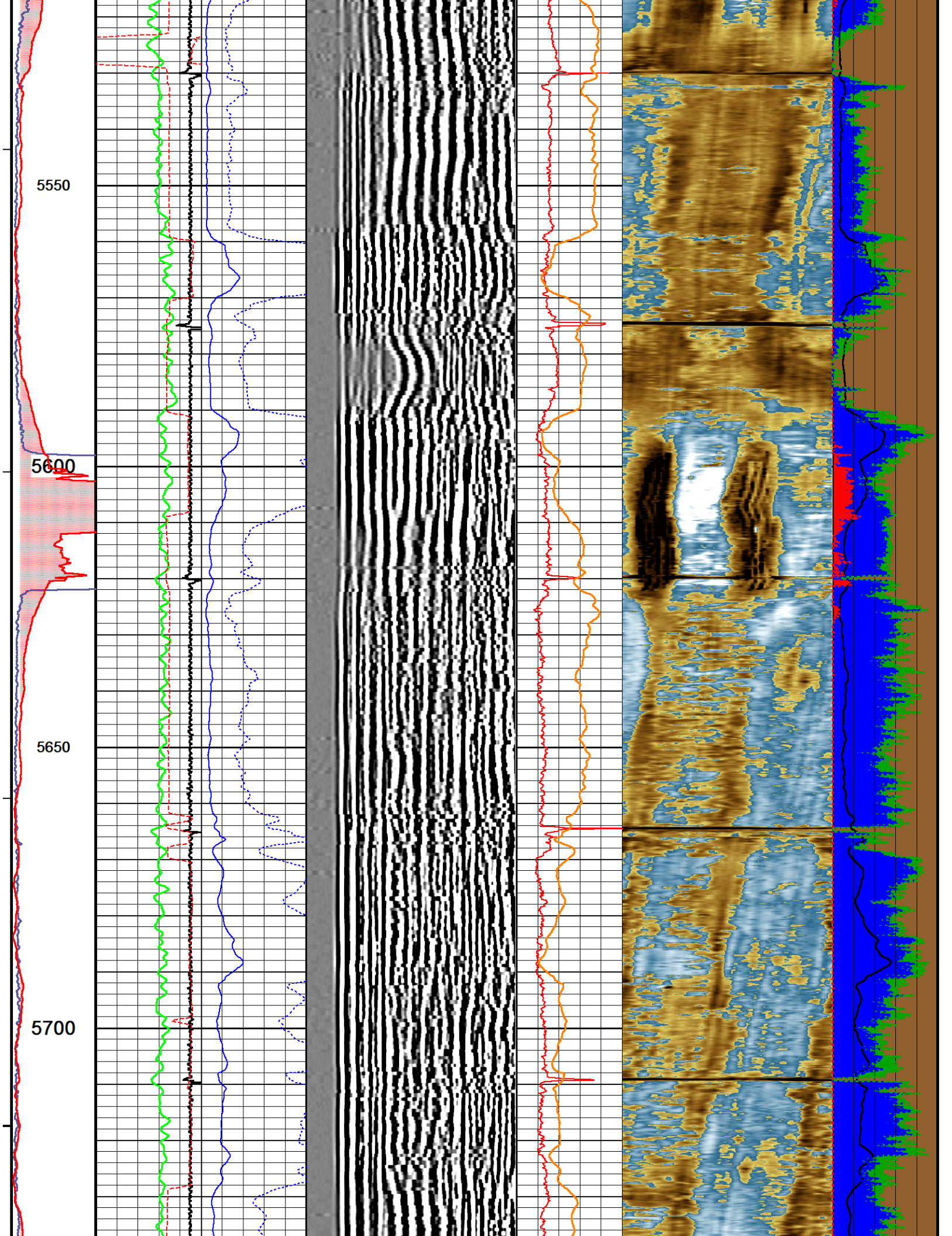


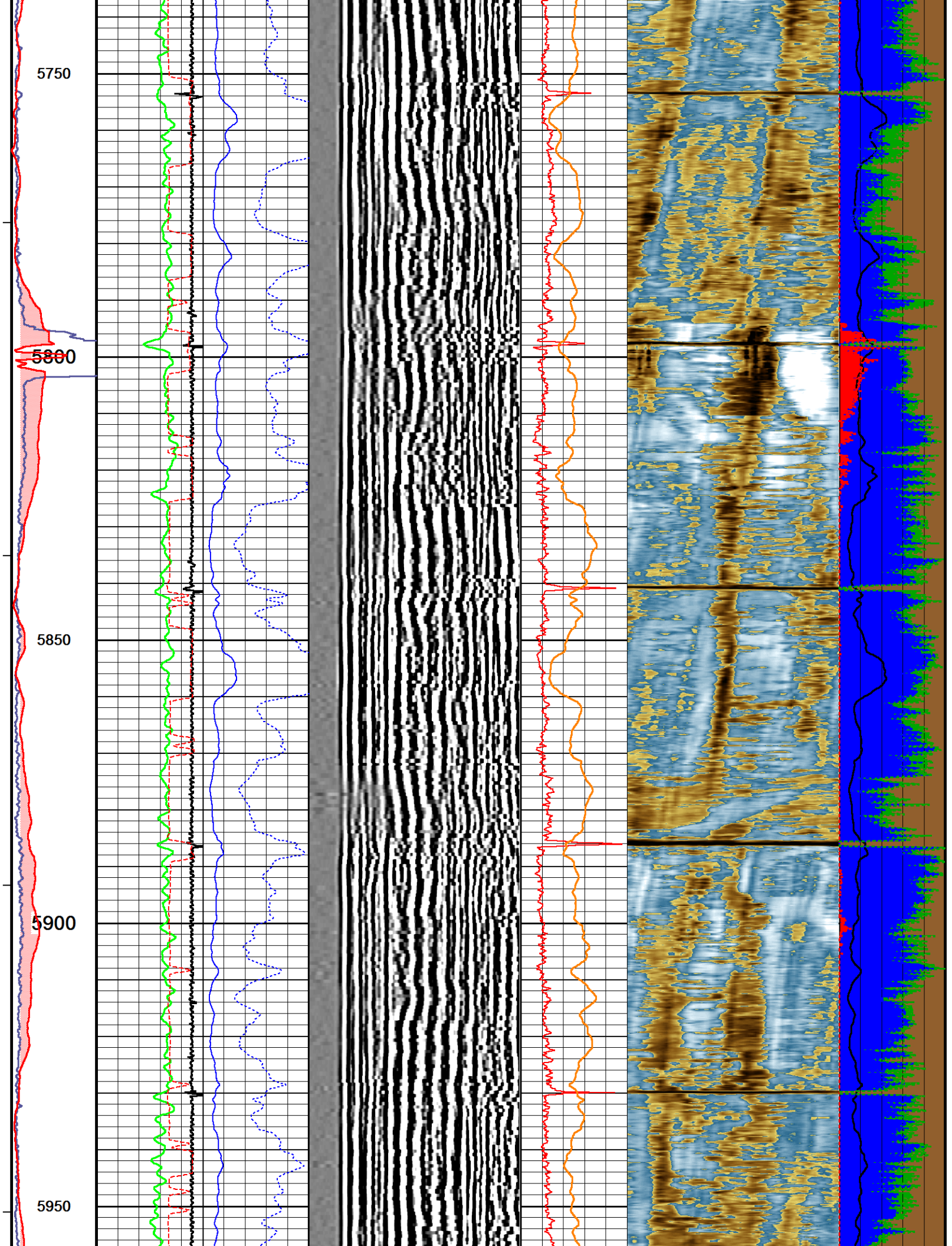


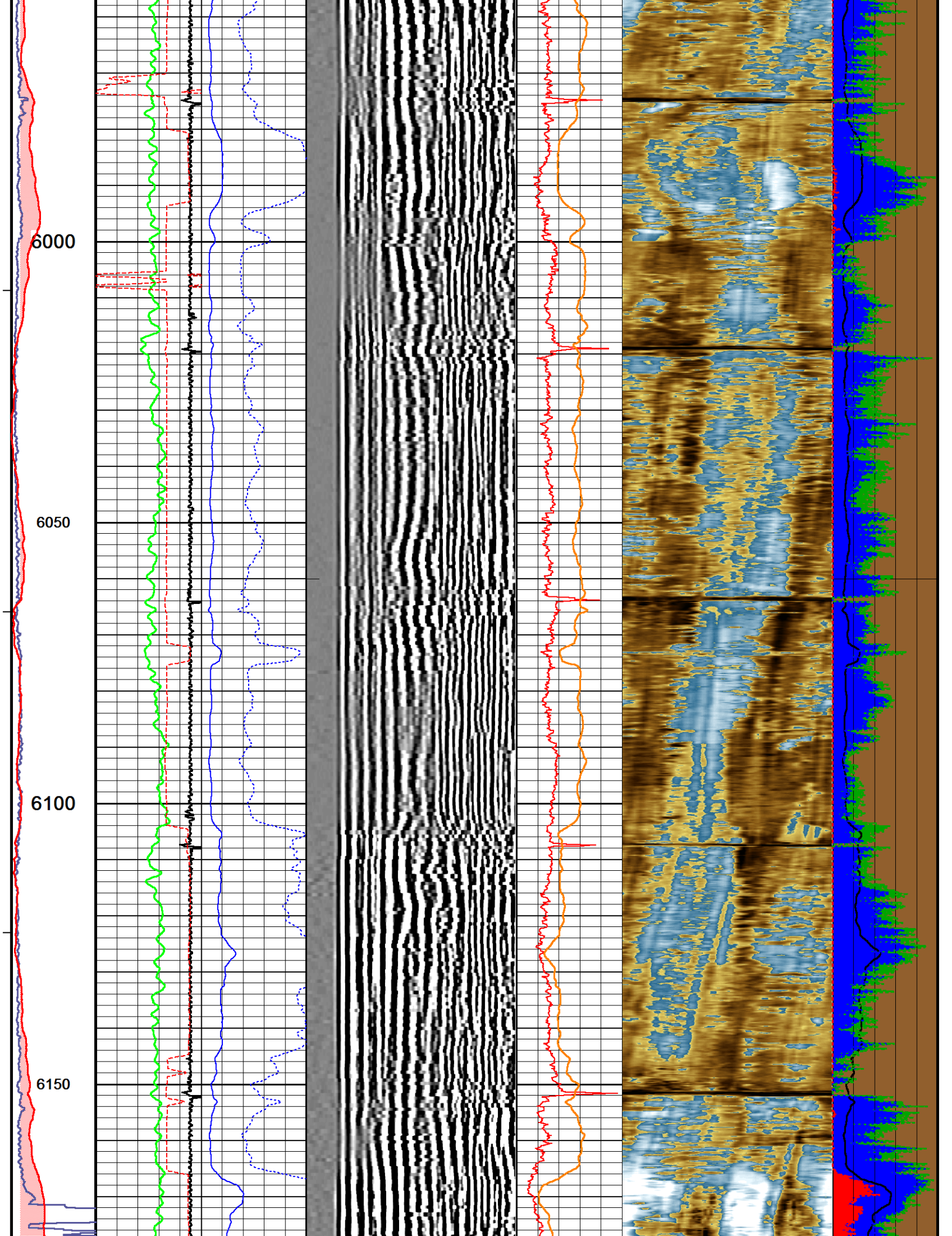


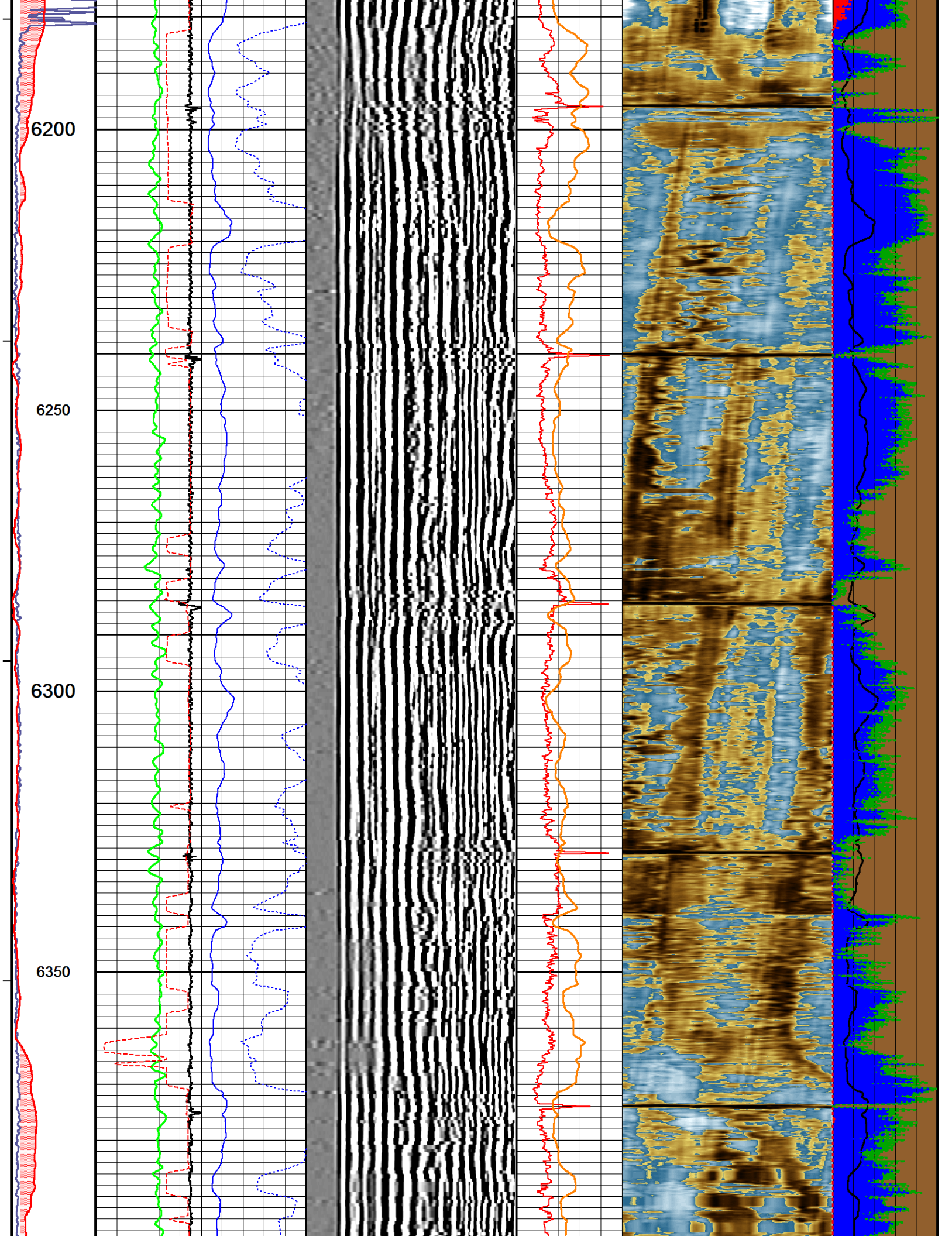


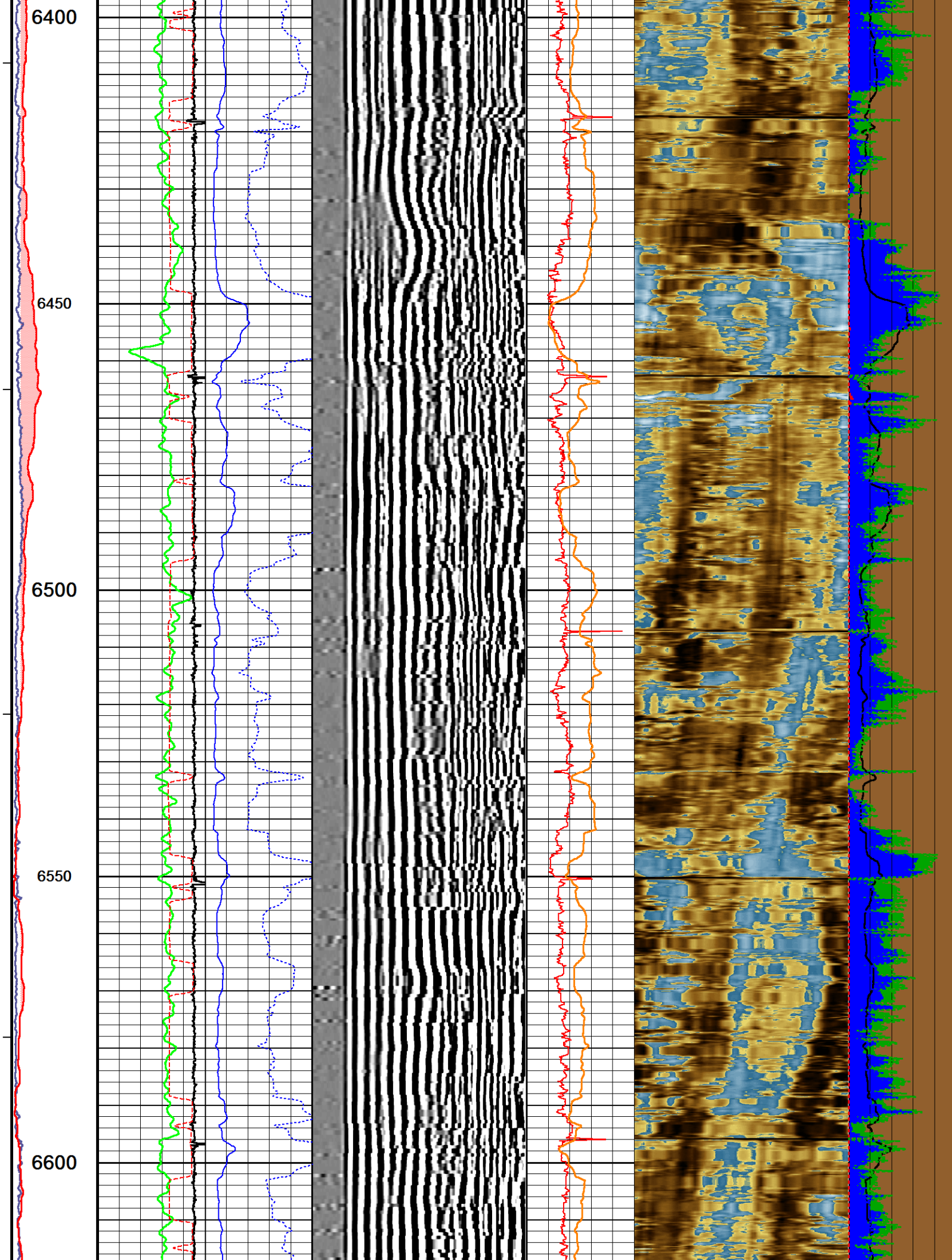


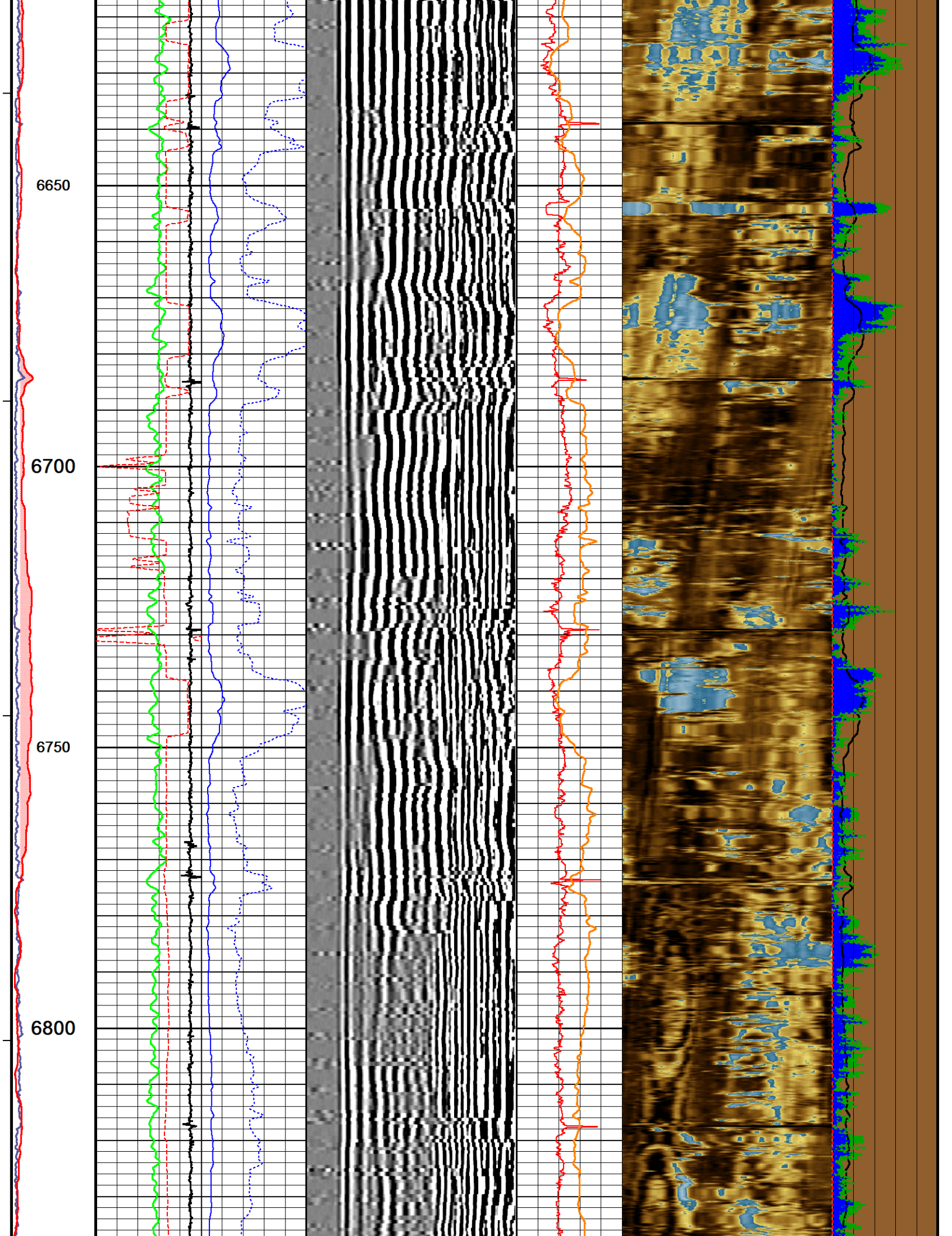


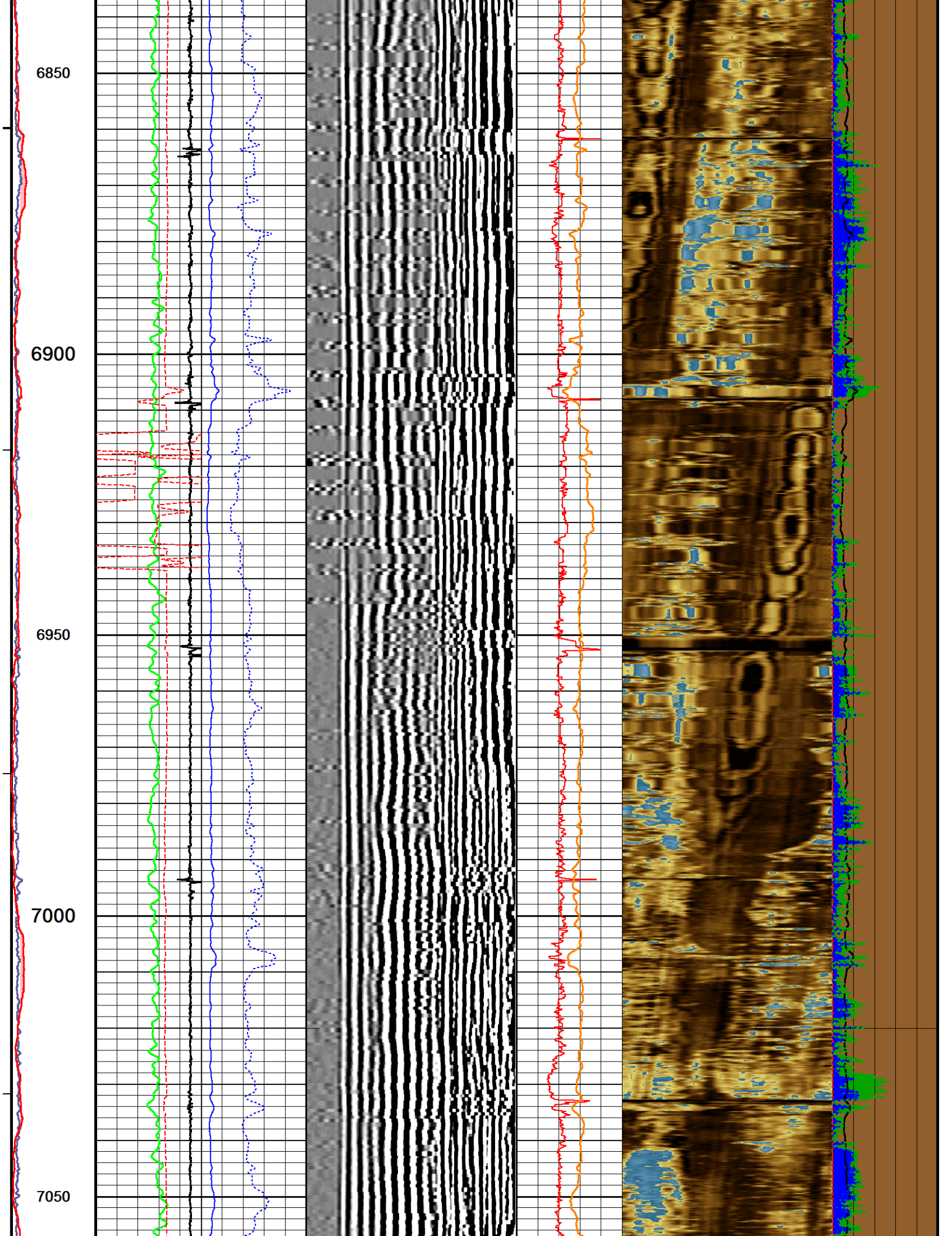


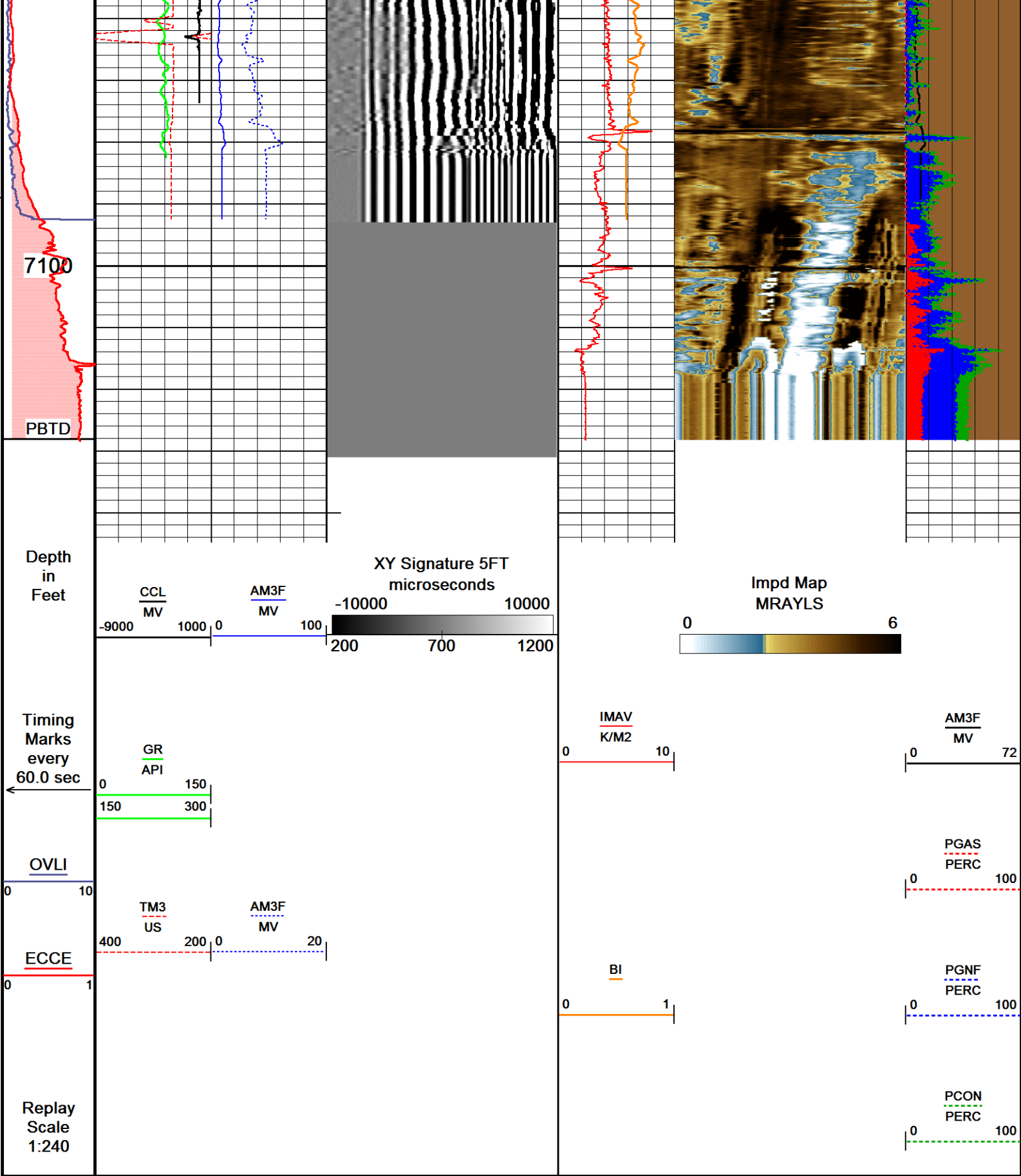










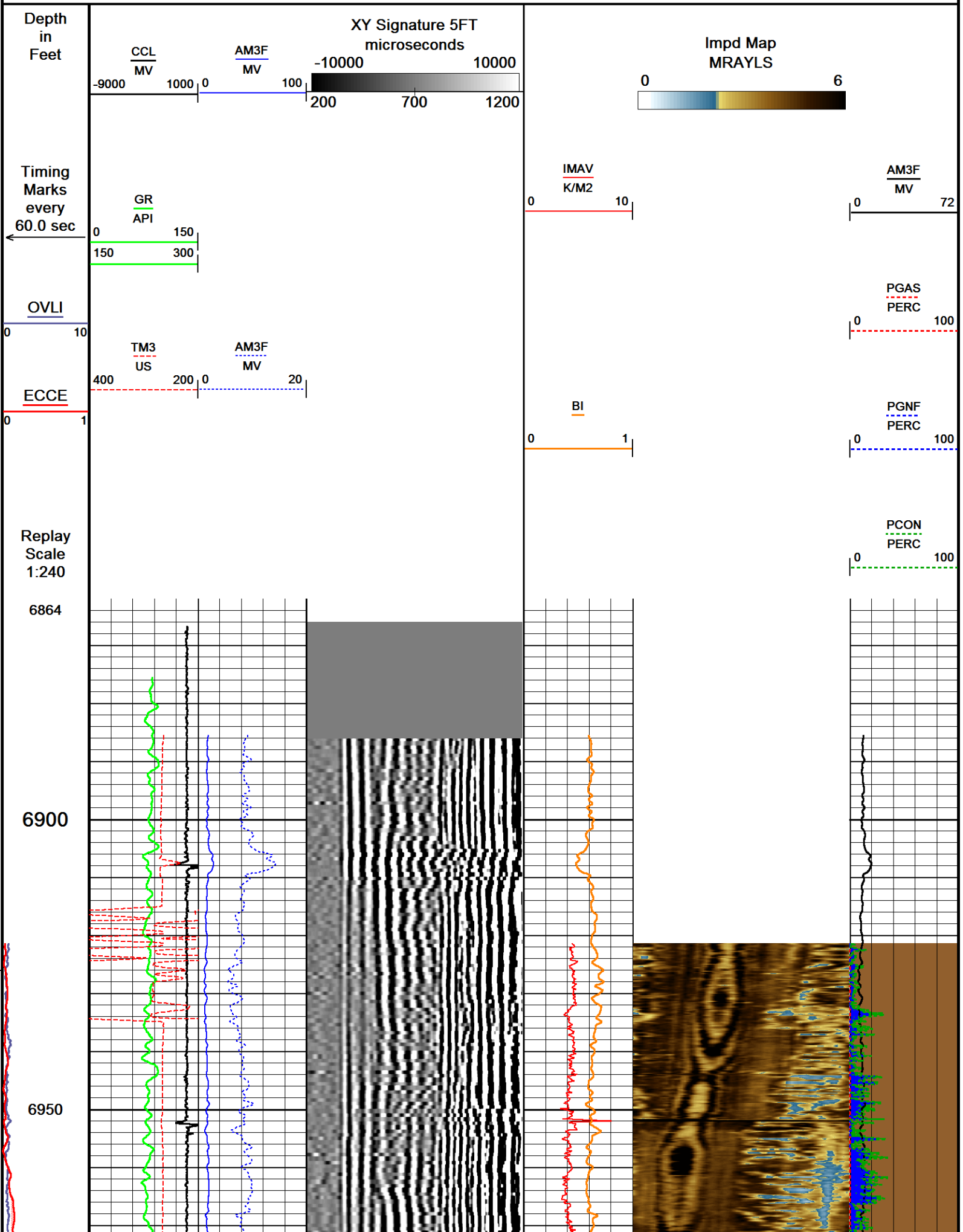


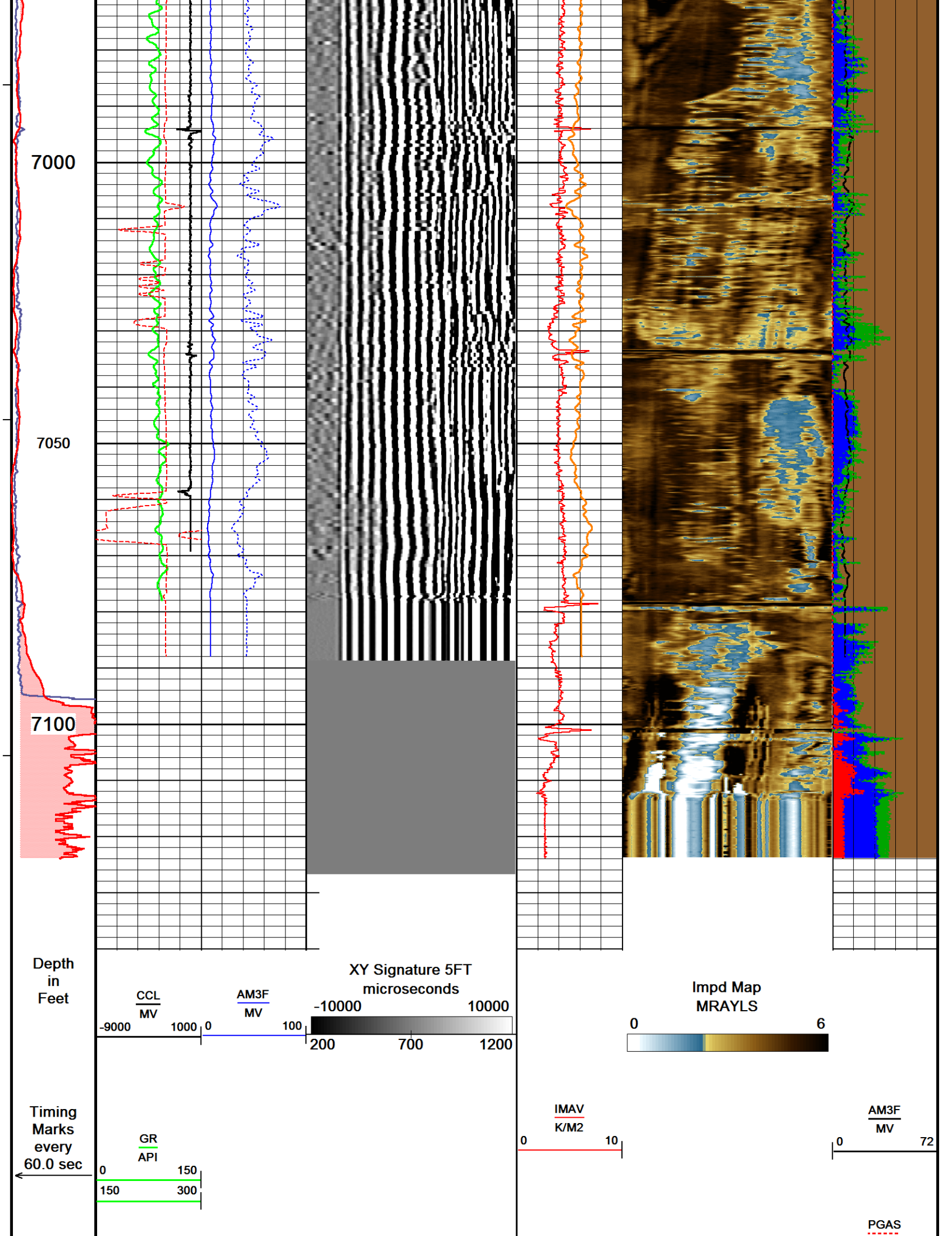
Depth Based Data - Maximum Sampling Increment 2.5cm
Filename: C:\Users\197426\Desktop\EXTRACTION\WIN...\WINDER SOUTH #9 MAIN PASS_001.dta
System Versions: Logged with 16.05.3841 Processed with 16.05.3841 Plotted with 16.05.3841

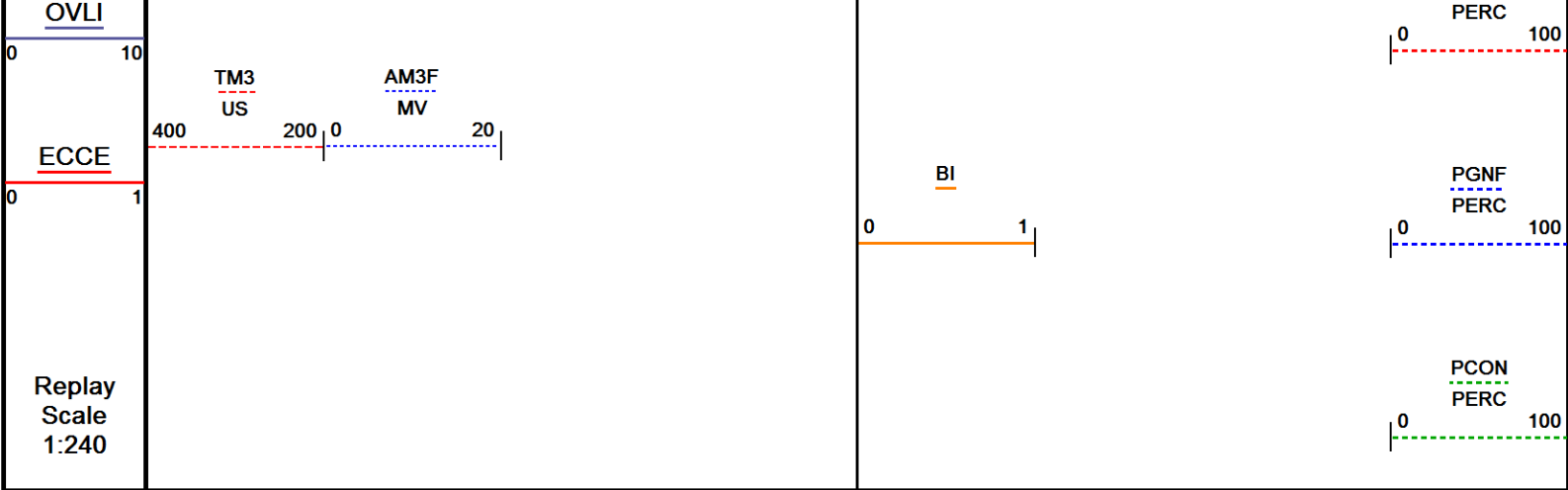
MAIN PASS

REPEAT PASS

Depth Based Data - Maximum Sampling Increment 2.5cm
Plotted on 18-NOV-2016 12:19







Depth Based Data - Maximum Sampling Increment 2.5cm
Filename: C:\Users\le197426\Desktop\EXTRACTION\...\WINDER SOUTH #9 REPEAT PASS_001.dta
System Versions: Logged with 16.05.3841 Processed with 16.05.3841 Plotted with 16.05.3841
Plotted on 18-NOV-2016 12:19
Recorded on 18-NOV-2016 12:08

↑ REPEAT PASS ↑

SHOP AND FIELD CALIBRATIONS

C:\Users\le197426\Desktop\EXTRACTION\WINDER SOUTH #9\WINDER SOUTH #9 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

Free Pipe Depth

Sensor	Description	Standard(mV)	Measured(mV)
AMP 3 FT	100 % Bond	1.80	0.00
	Free Pipe	55.00	493.90
AMP 5 FT	100 % Bond	1.20	0.00
	Free Pipe	36.00	408.30

CBT Constants CBT-AA 101

Last Edited on 18-NOV-2016 12:01

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 18-NOV-2016 12:01

*** 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	3.80
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	1556.00	5.50	36.00	1.50	1.50	0.36	1.00
0.00	16963.00	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 #9\WINDER SOUTH #9 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

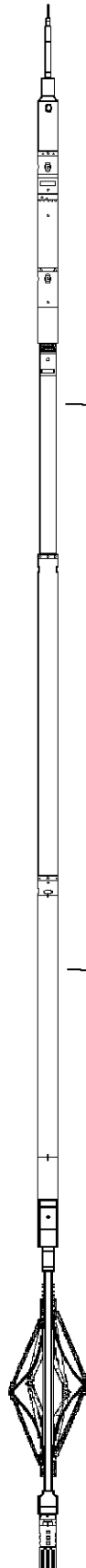
UGR-JD 223 LG: 4.60 ft WT: 81.6 lb OD: 3.386 in

55 pin Roller Centralizer

CEN-XA 162 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

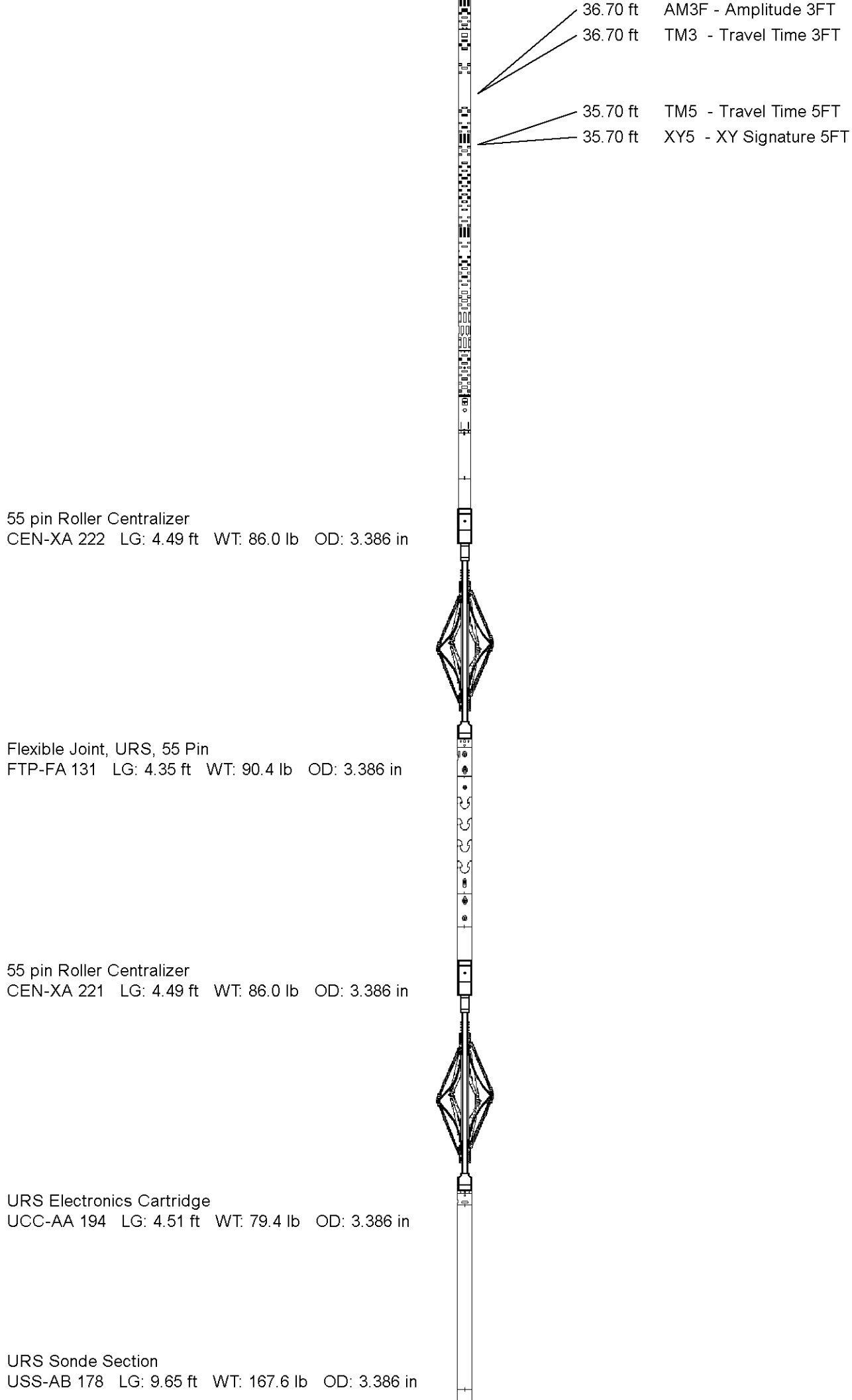
Cement Bond Tool

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



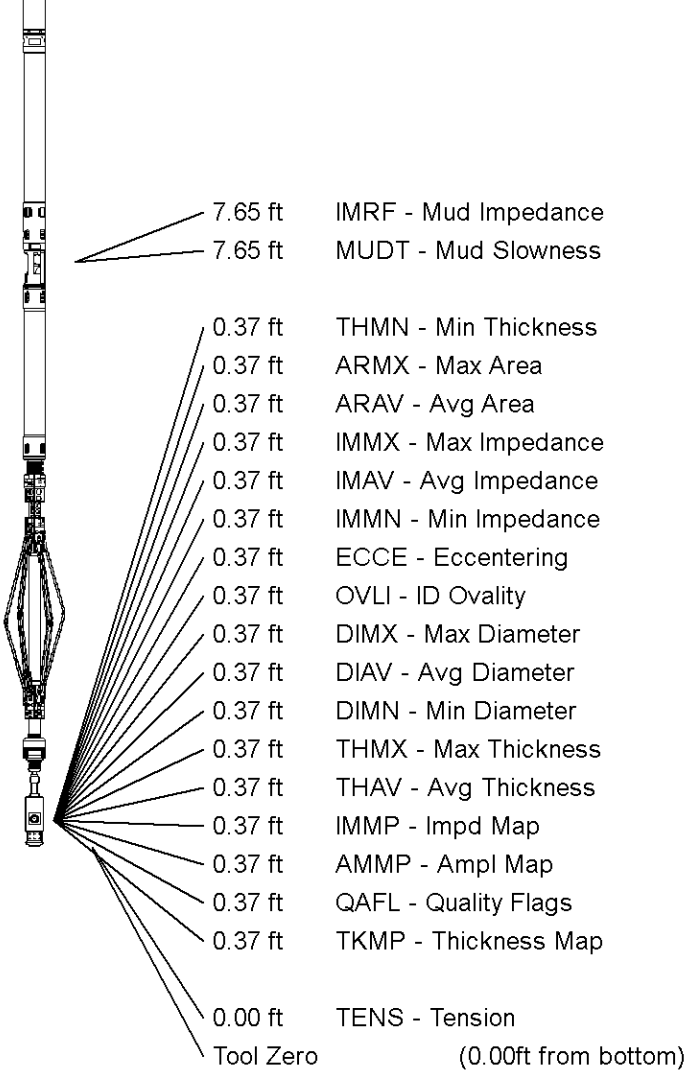
55.14 ft CCL - Collar Locator

47.05 ft GR - Gamma Ray



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 #9
FIELD	WATTENBERG
PROVINCE/COUNTY	WELD
COUNTRY/STATE	USA / COLORADO

Elevation Kelly Bushing	0	feet	Bottom Log Interval	7128.00	feet
Elevation Drill Floor	0	feet	Depth Driller		feet
Elevation Ground Level	0	feet	Depth Logger	7128.00	feet



Weatherford®

SECUREVIEW
ULTRAVIEW / BONDVIEW
CEMENT ANALYSIS