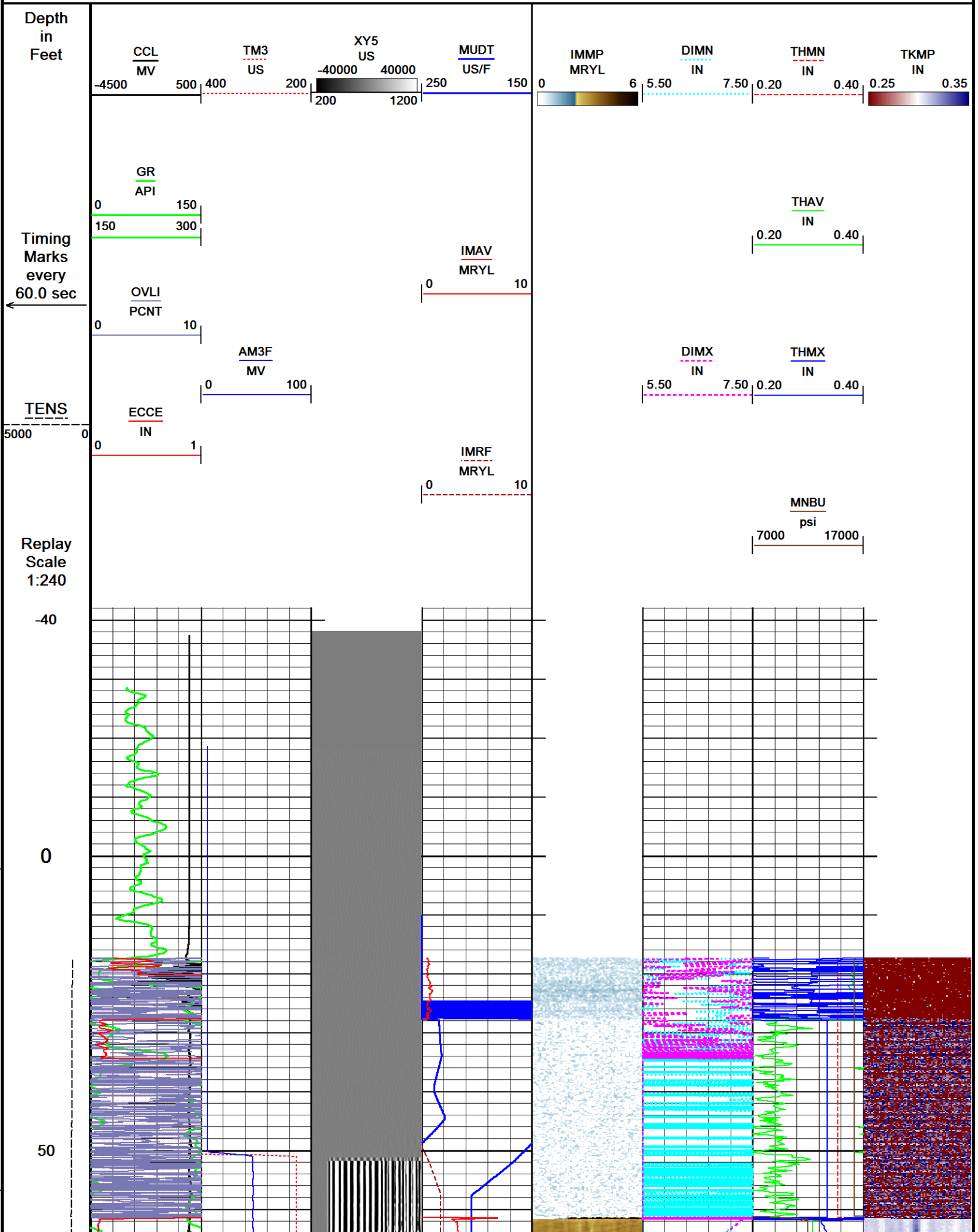
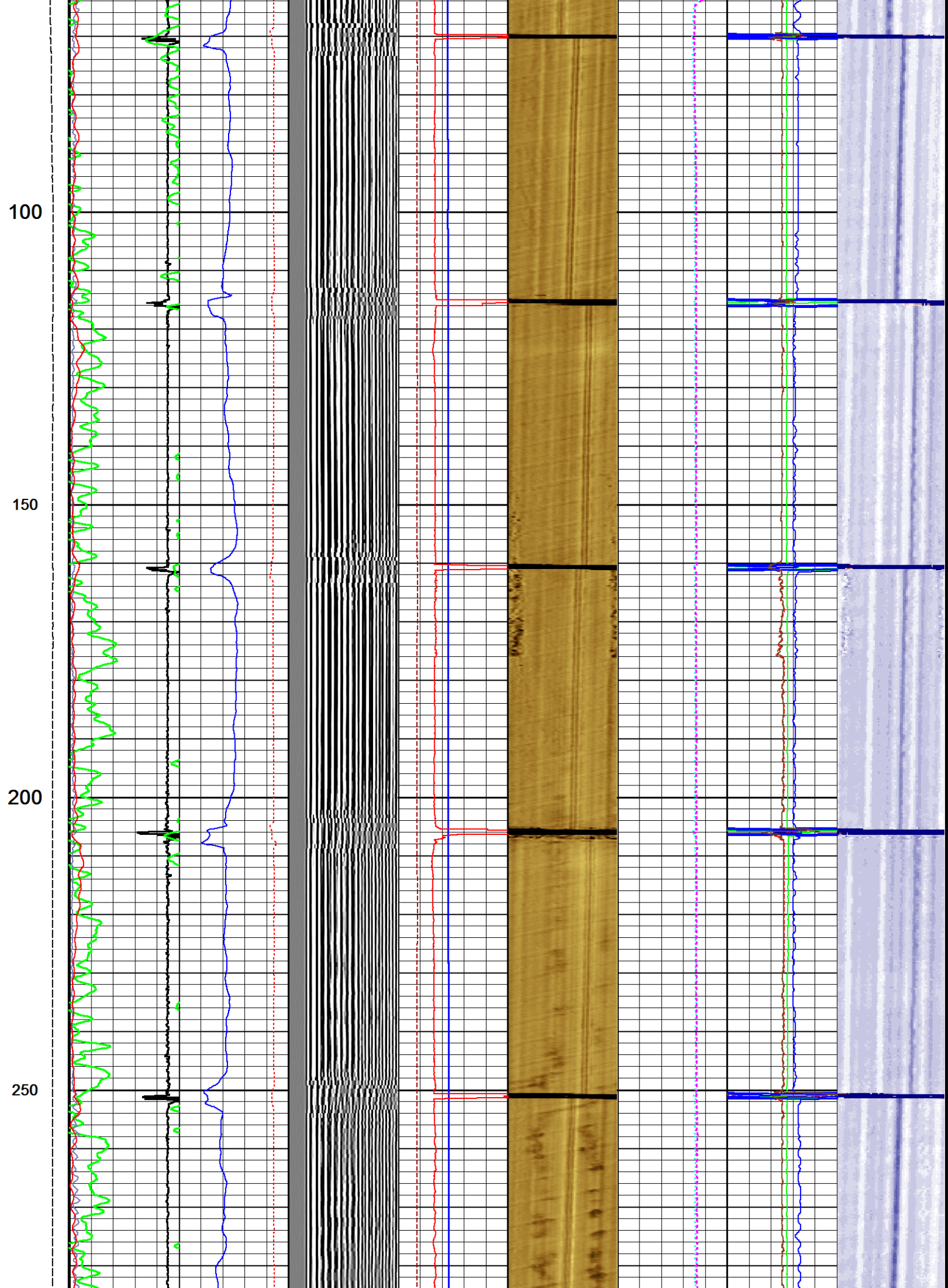
		SECUREVIEW			
Weatherford®		ULTRAVIEW / BONDVIEW			
		COMPOSITE			
COMPANY		BONANZA CREEK ENERGY			
WELL		NORTH PLATTE F21-J24-28 HNB			
FIELD		WATTENBERG			
PROVINCE/COUNTY		WELD			
COUNTRY/STATE		US / COLORADO			
LOCATION		1427' FSL 1444' FWL			
SEC	TWP	RGE	Other Services		
Latitude		CALVIEW			
Longitude		CASING ANALYSIS LOG			
API Number		05-123-47011			
Permanent Datum GL, Elevation 4553 feet				Elevations:	
Log Measured From KB, 17.00 feet above Permanent Datum				KB 4570.00	
Drilling Measured From KB				DF 4570.00	
				GL 4553.00	
Date	18-OCT-2018	PERFORATION RECORD			
Run Number	ONE	Shot	Number	Depth From	Depth To
Service Order	18188-227/083565	Density	of Shots	feet	feet
Type Log	URS/CBT				
Depth Driller	11537.00	feet			
Depth Logger	6034.00	feet			
Top Log Interval	0.00	feet			
Bottom Log Interval	6034.00	feet			
Hole Fluid Type	WATER				
Hole Fluid Level	0.00	feet			
Restriction ID	4.892	inches	Gun Type		
Max Recorded Temp	183.00	deg F	Gun Size		
Well Head Pressure	0.00	CASING / TUBING RECORD			
Well Head Equipment	N/A	Size	Weight	Depth From	Depth To
Time Well Ready	R.O.A.	inches	pounds/ft	feet	feet
Time Logger Bottom	SEE LOG	9.625	36.00	0.00	1629.00
Unit	14166	5.500	17.00	0.00	11680.00
Equipment Name	WSS-E				
Base	CASPER				
Recorded By	BASHEER A.				
Witnessed By	KURT D.				

CASING / TUBING RECORD						
Type	Grade	TypeJoint	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
CASING	J-55	LT&C	9.625	0.00	1629.00	36.00
CASING	P-110	LT&C	5.500	0.00	11680.00	17.00

REMARKS
- SECUREVIEW ULTRAVIEW BONDVIEW LOG CORRELATED TO RIG KB @17.0 FT ABOVE GROUND LEVEL.
- 100% STANDARD FREE PIPE AMPLITUDE IN 5.5 INCH CASING IS 72 mV

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 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.





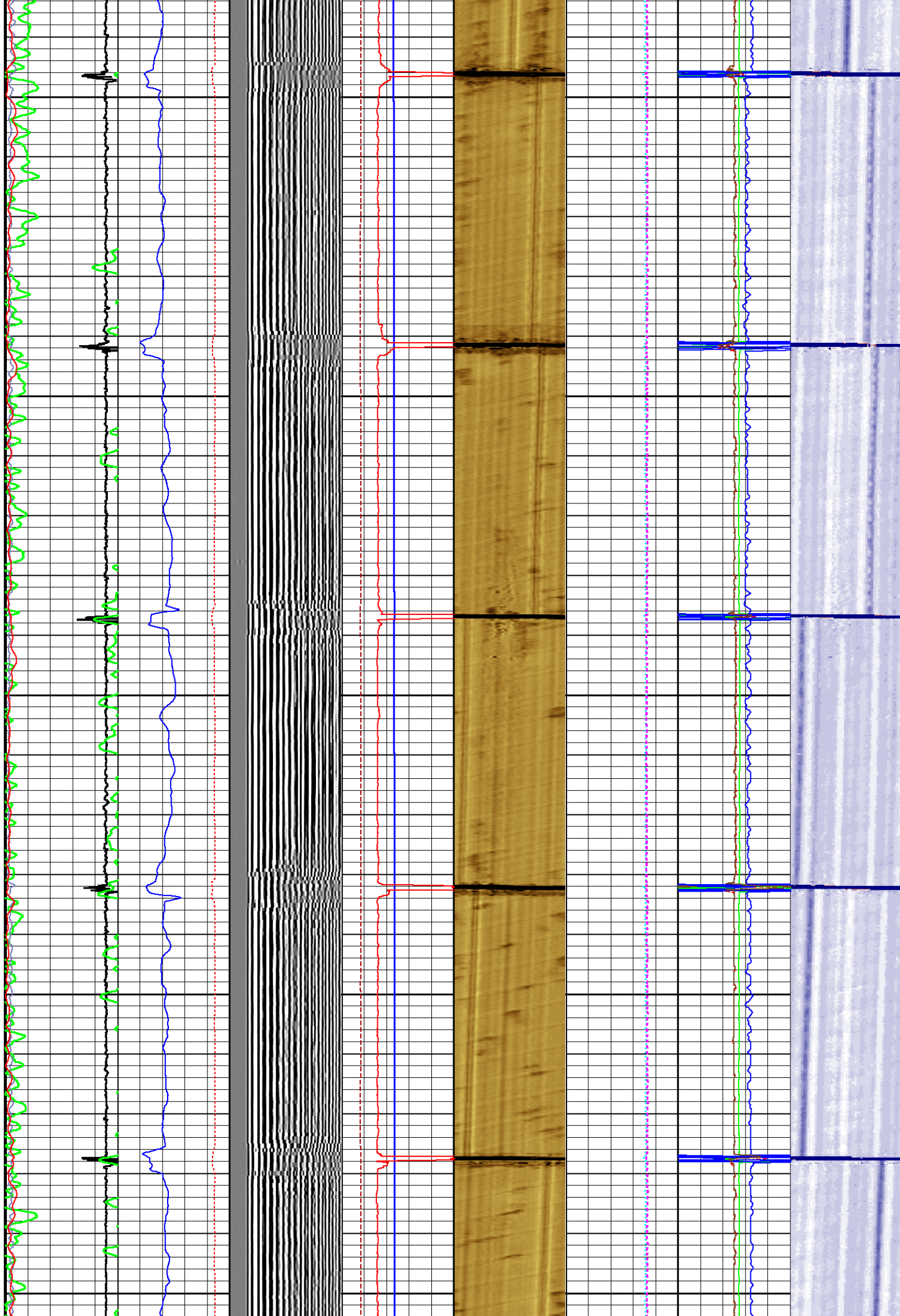
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350

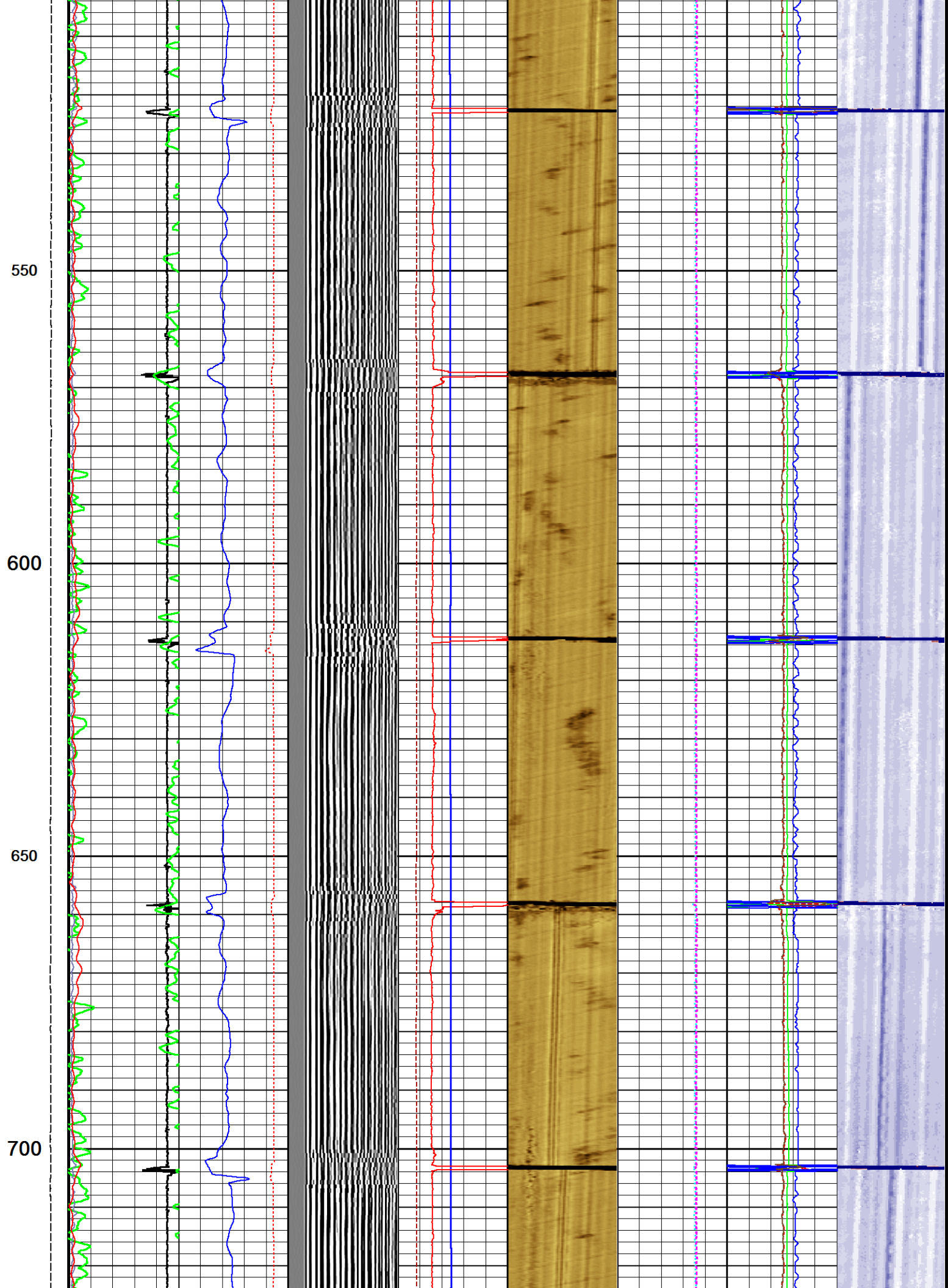
400

450

500





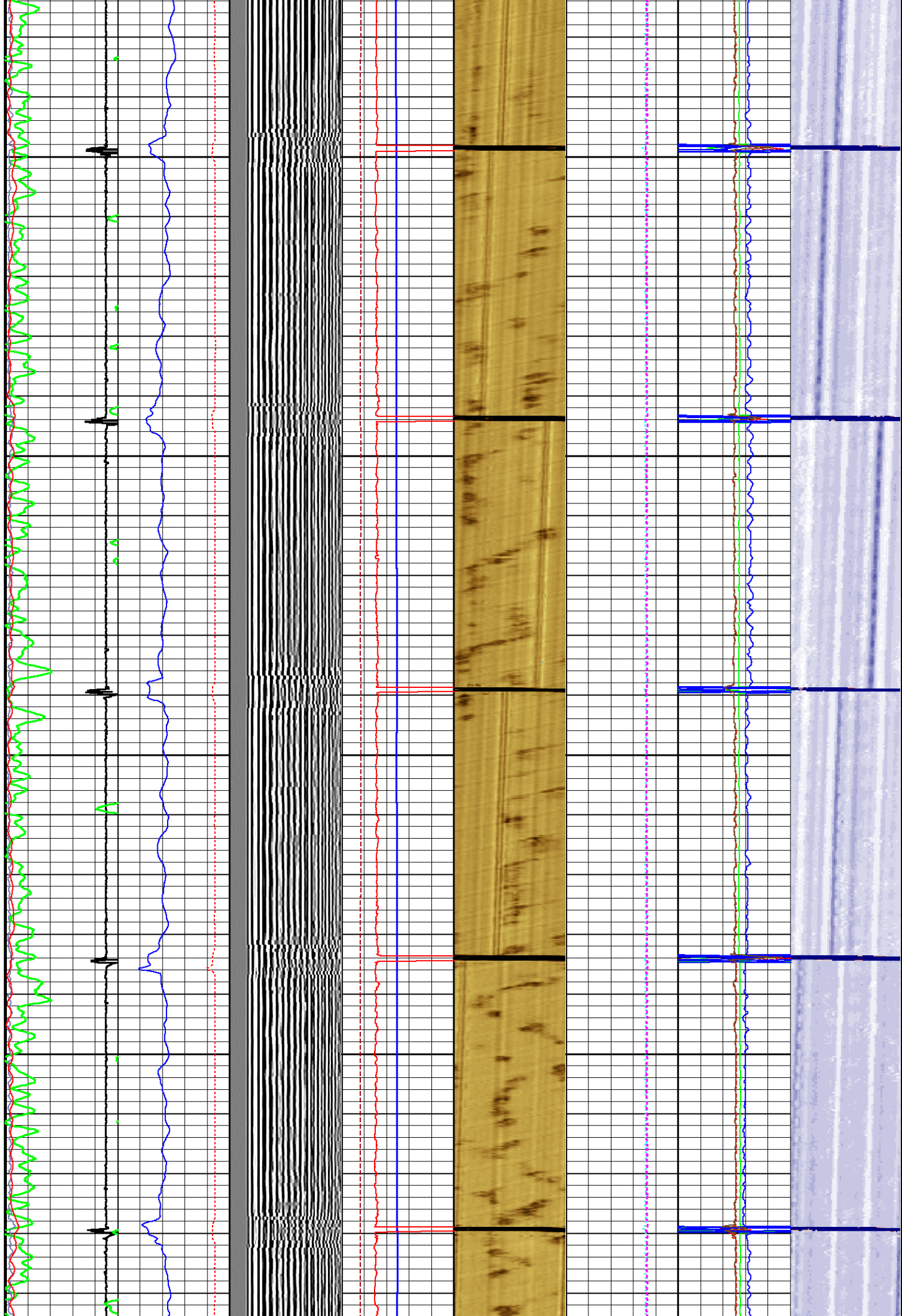


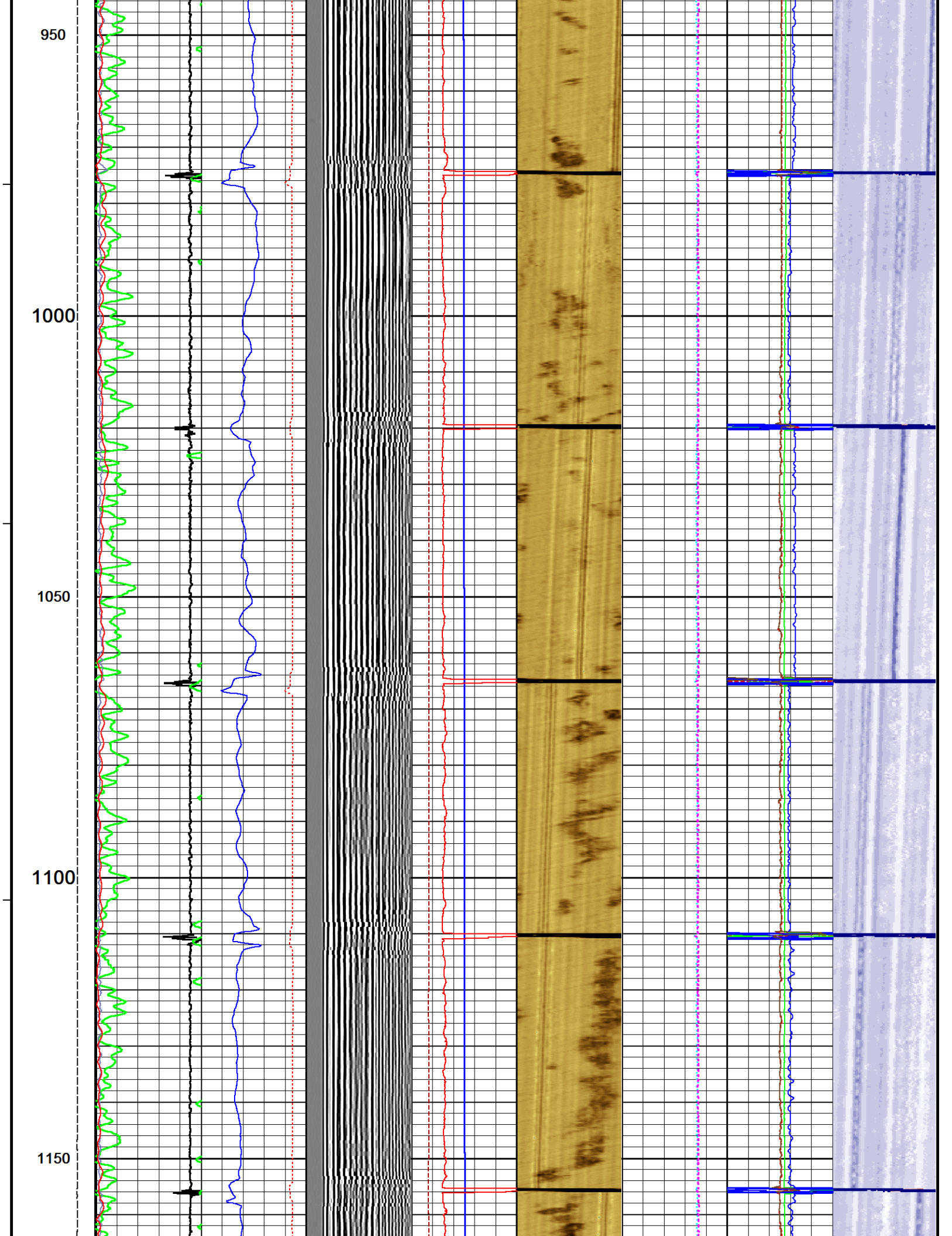
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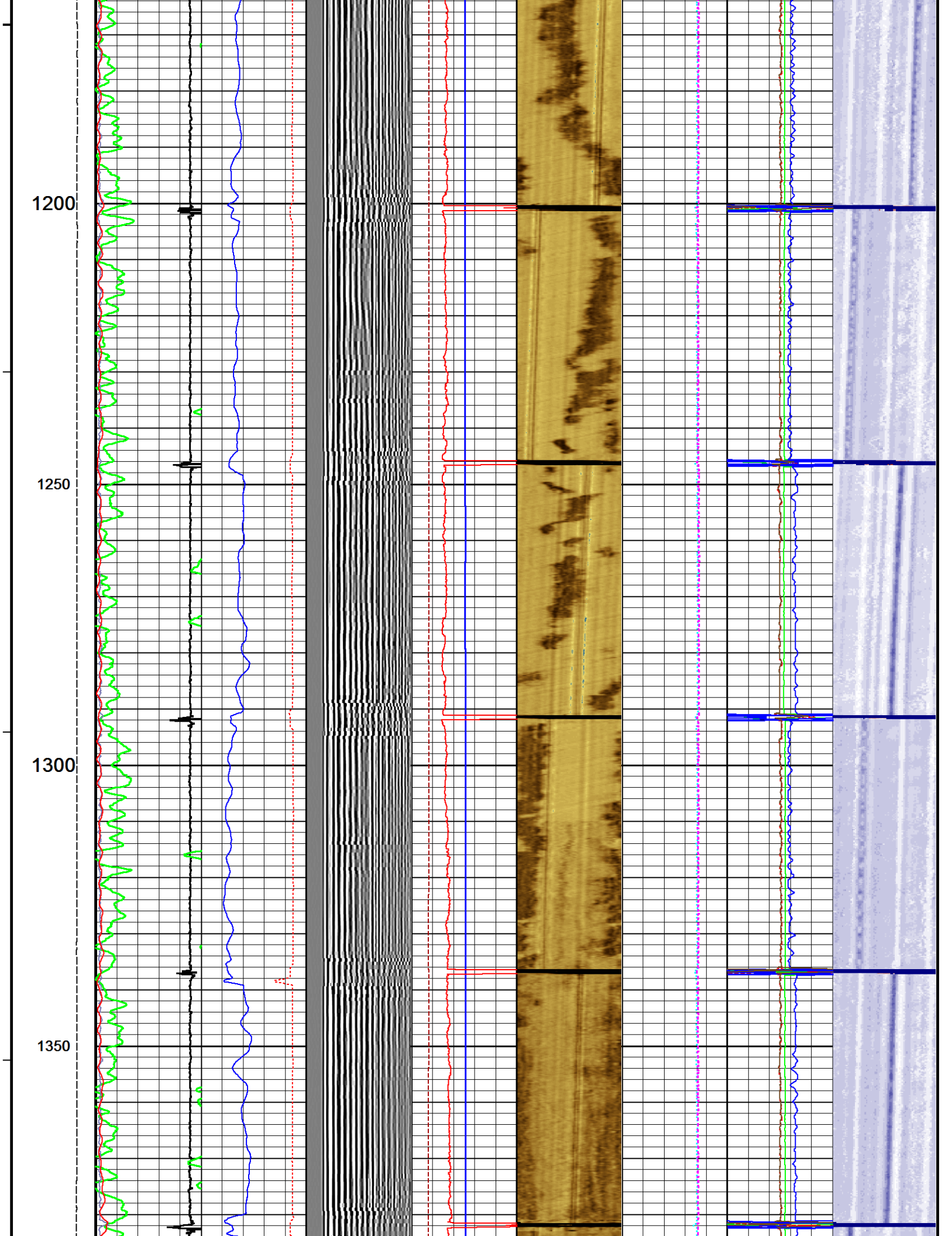
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900

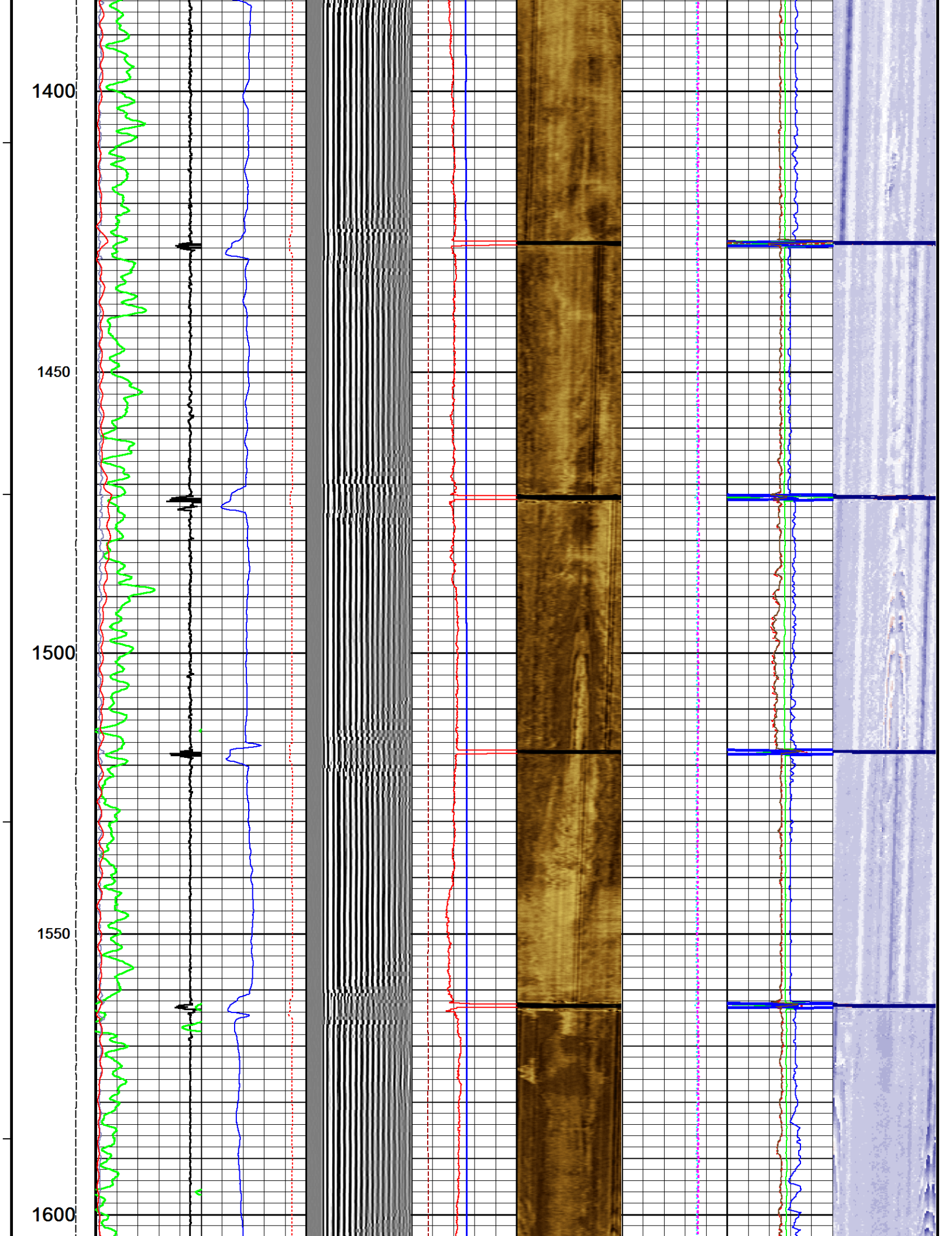


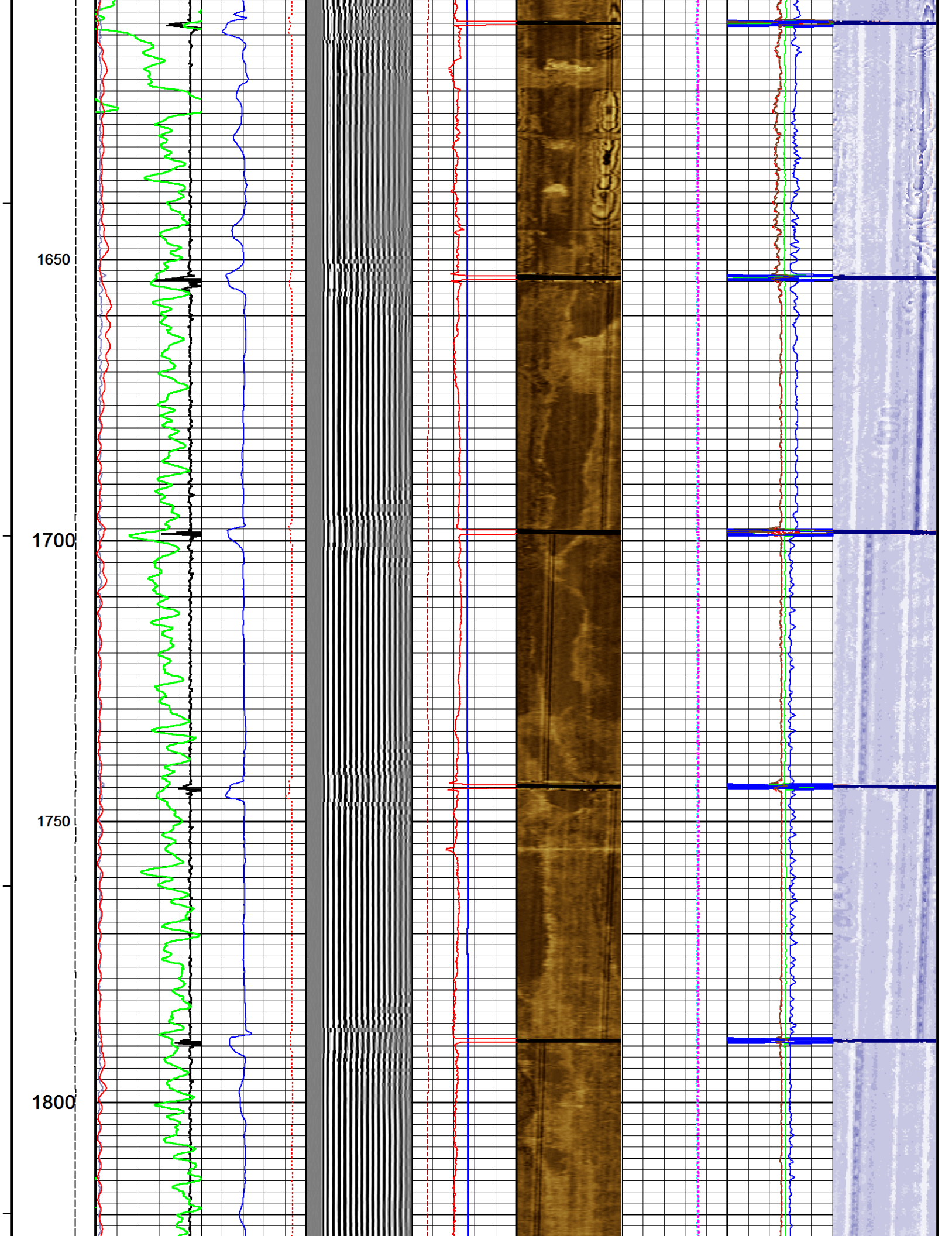


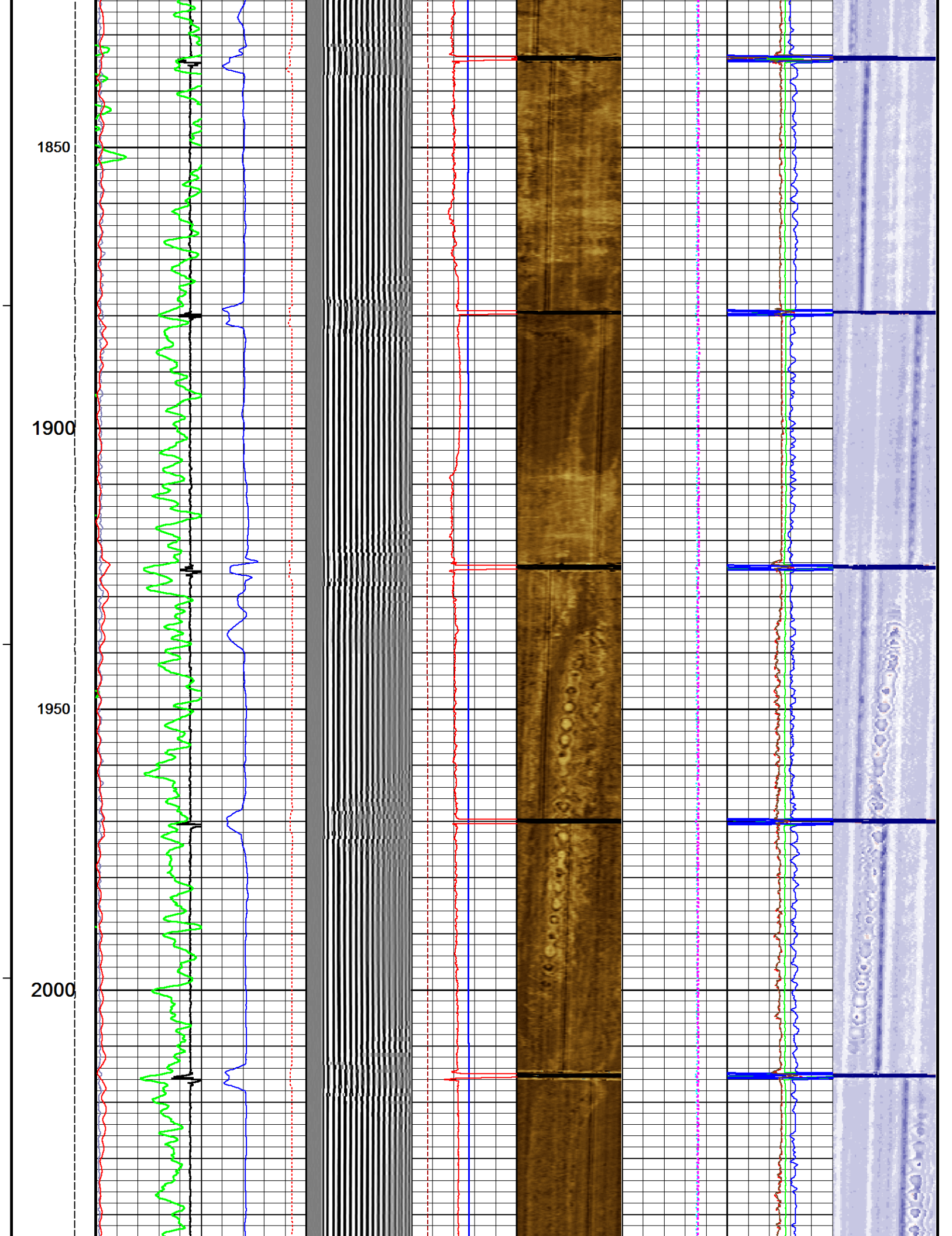




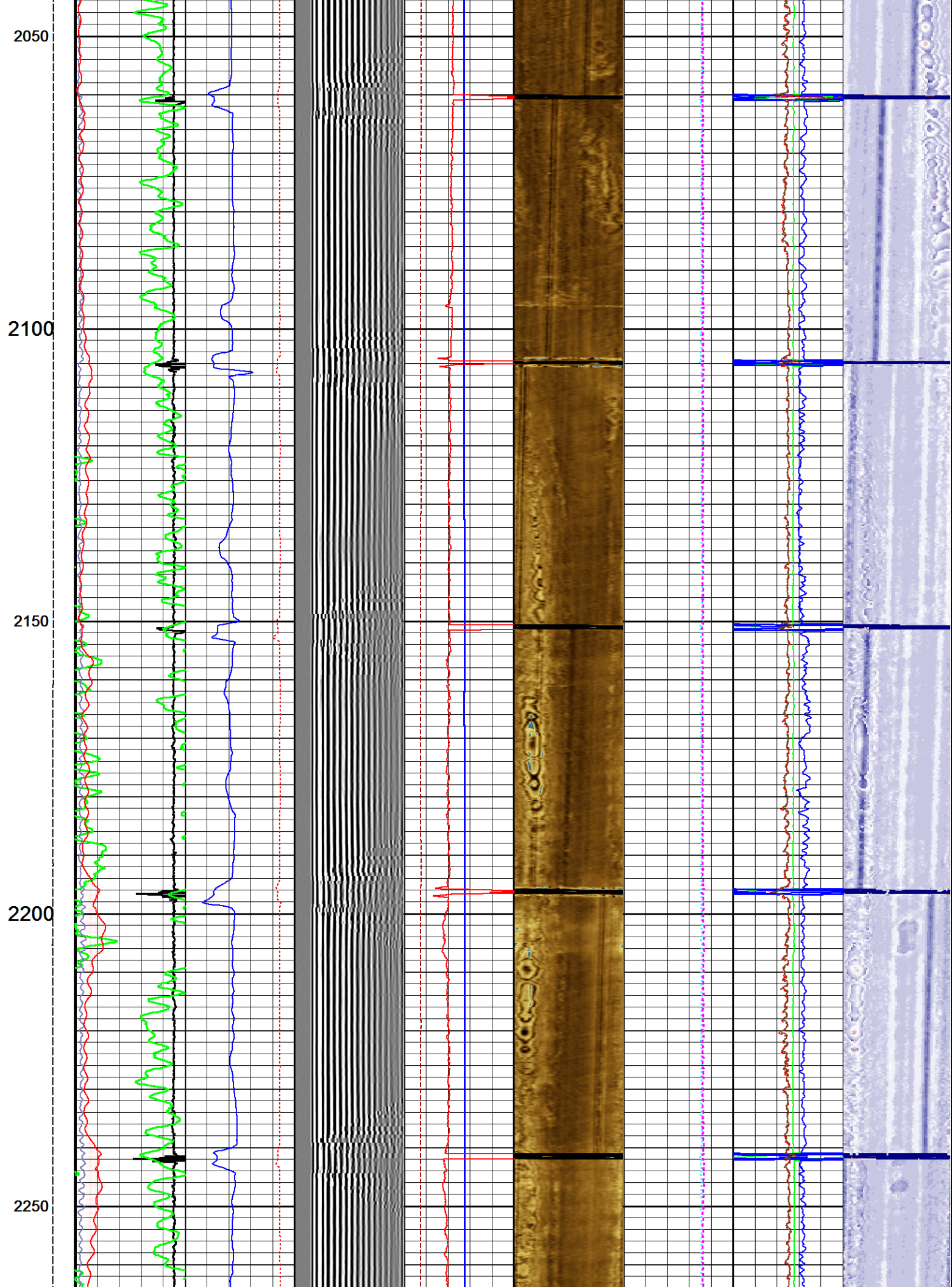




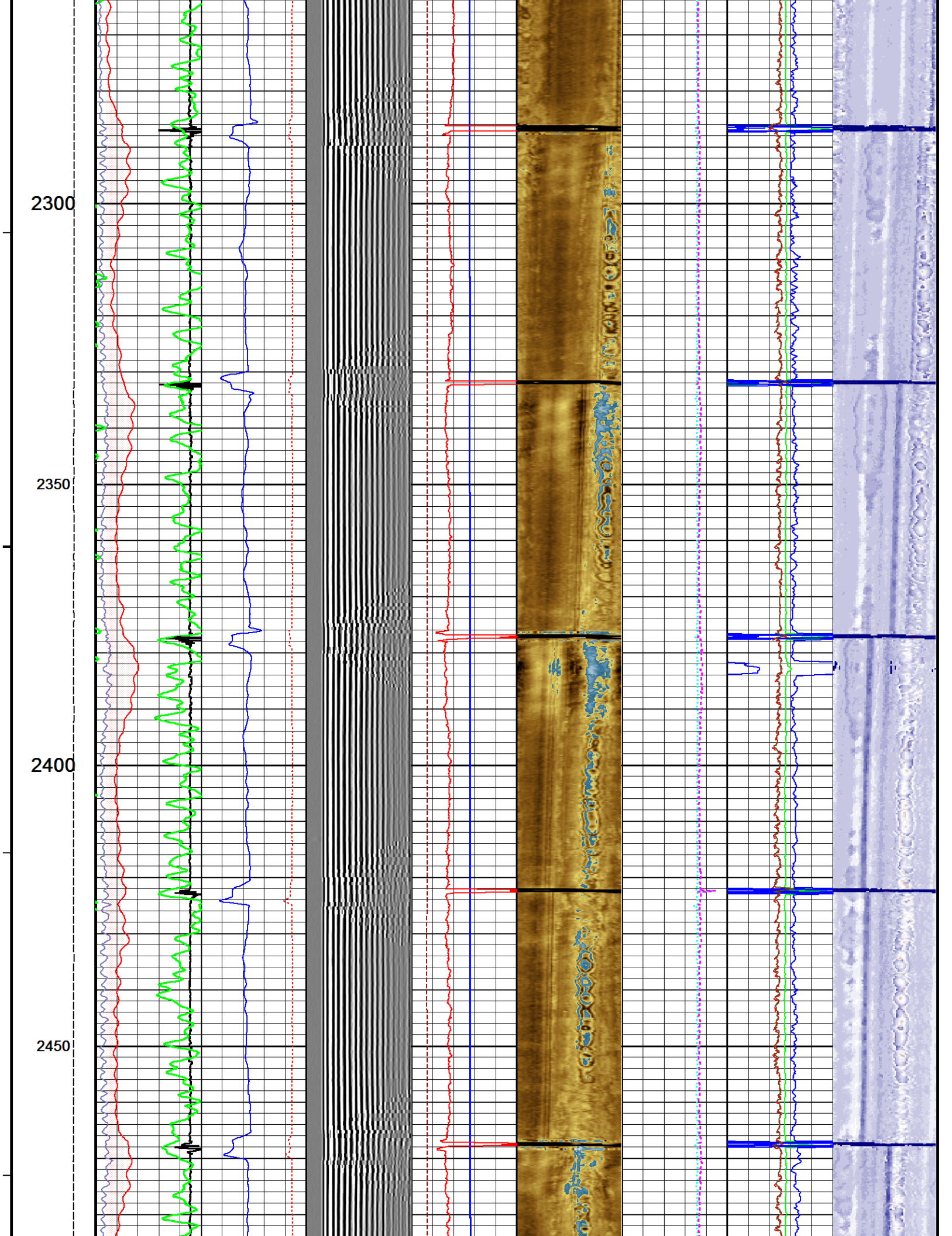


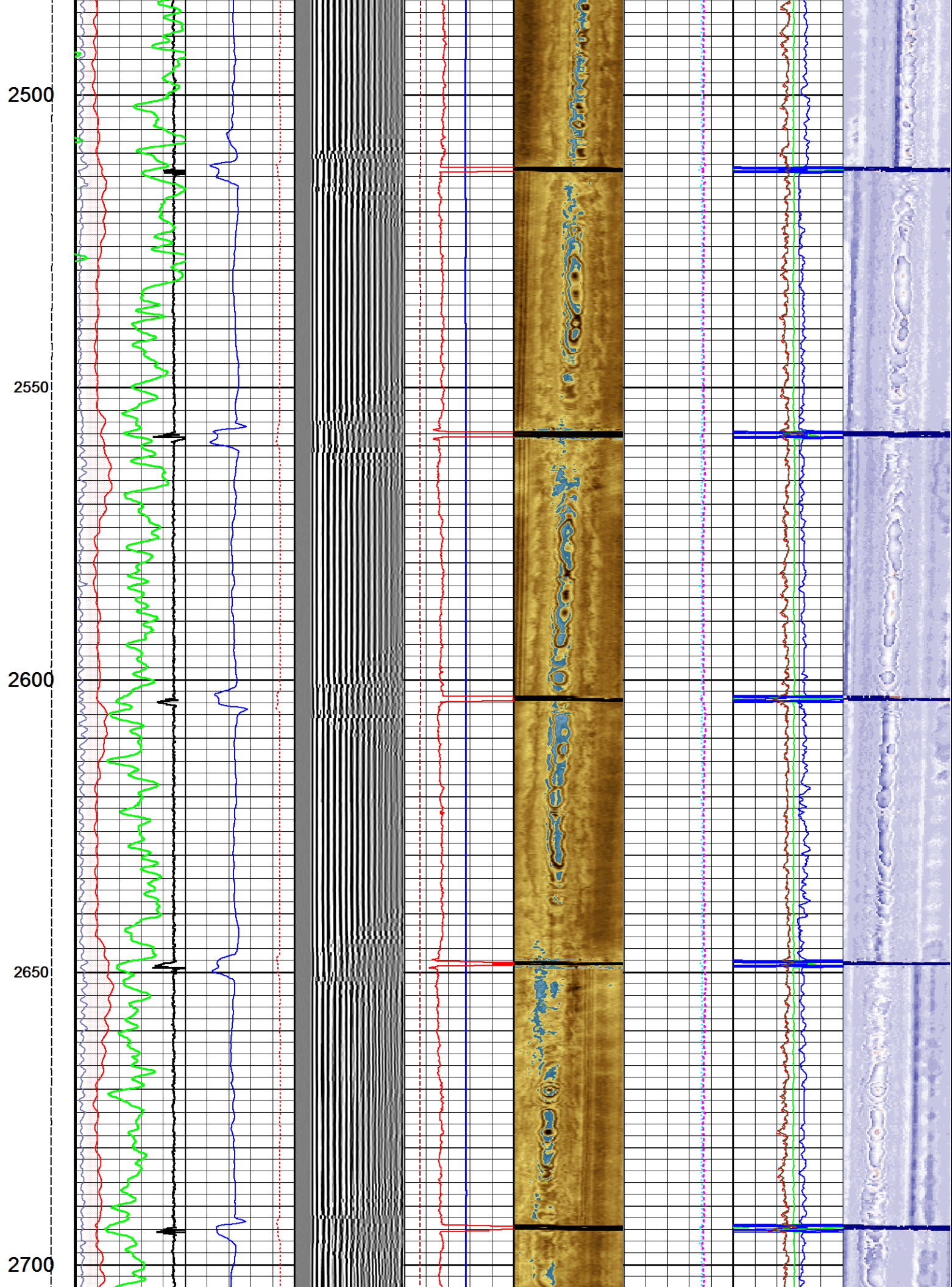




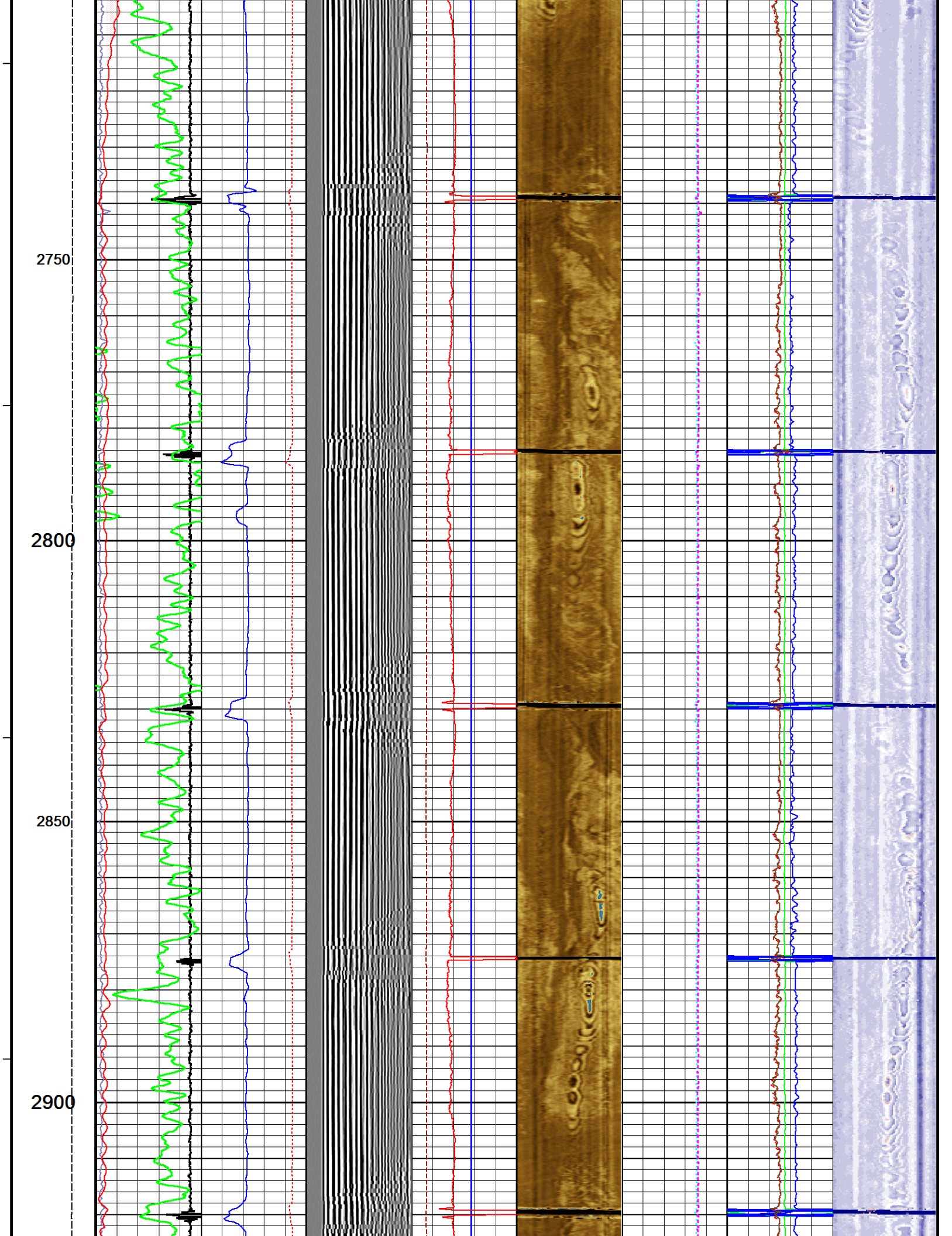


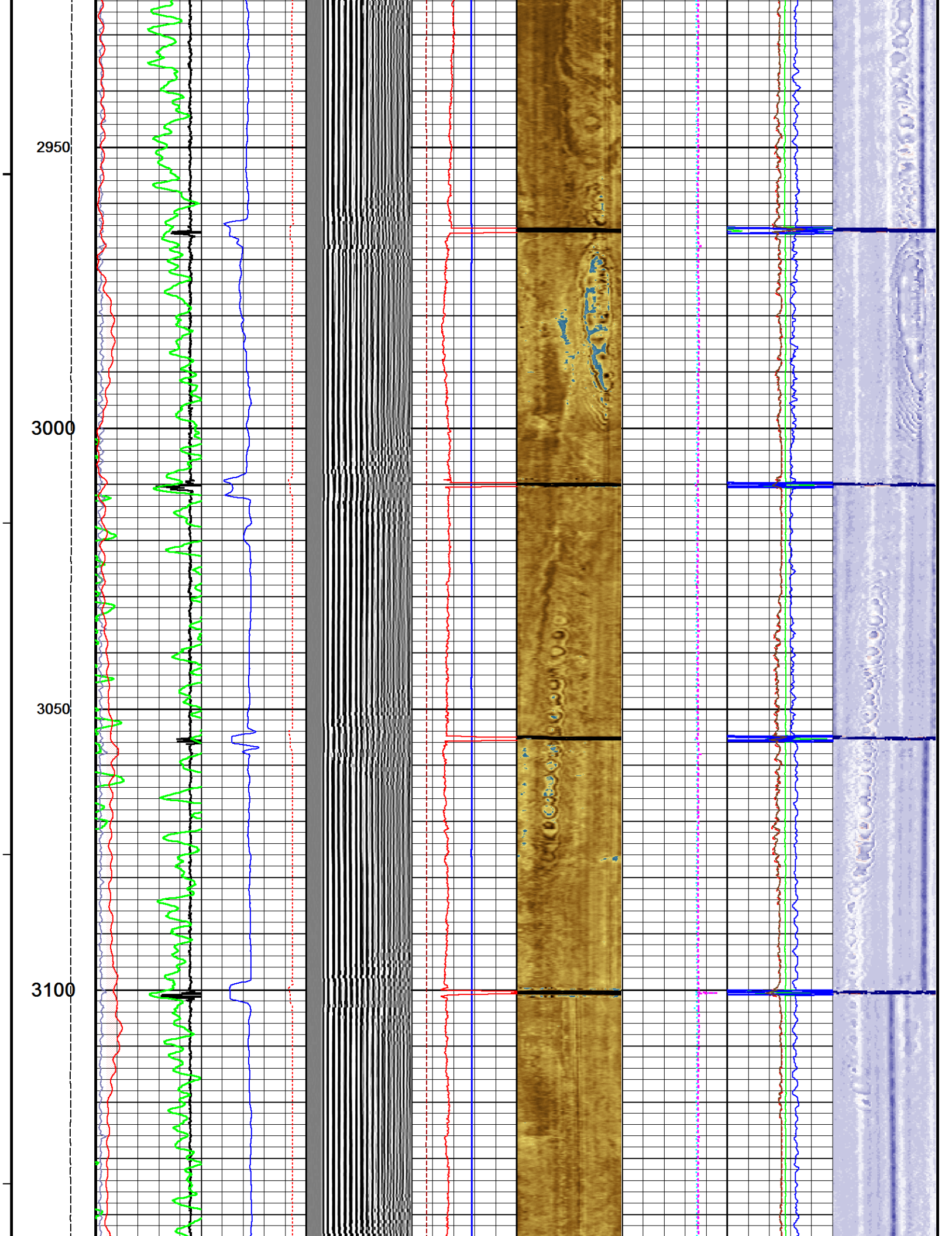




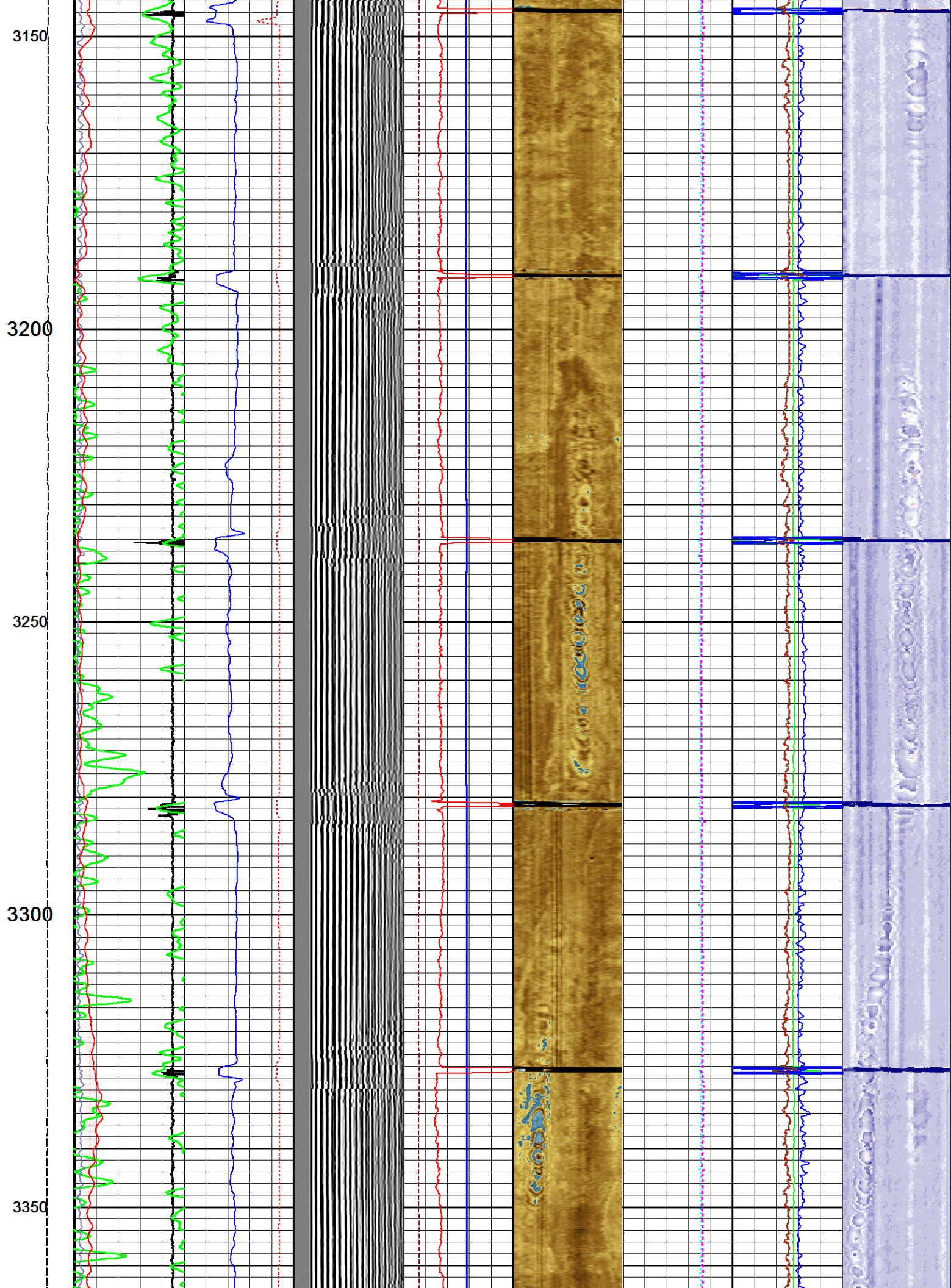


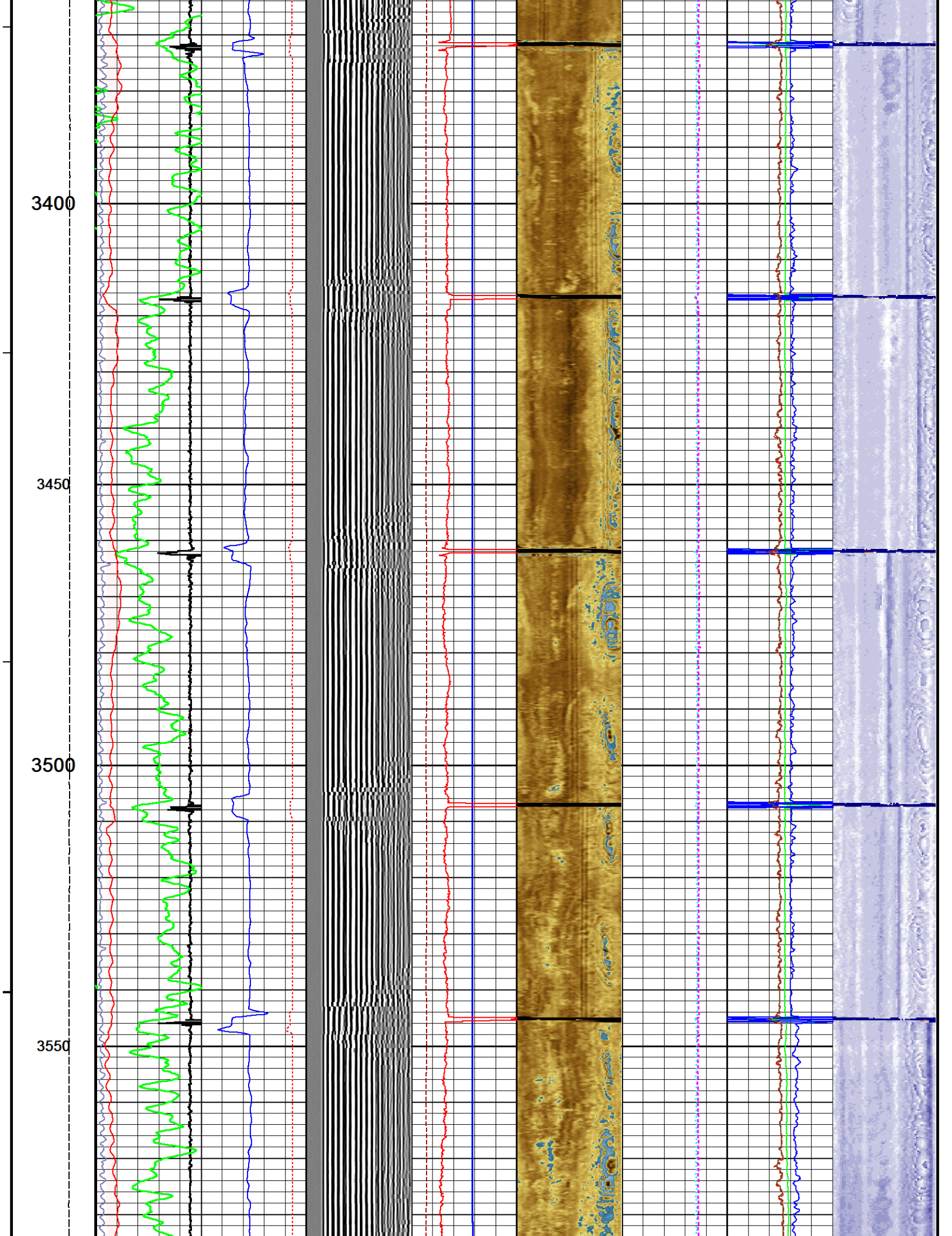




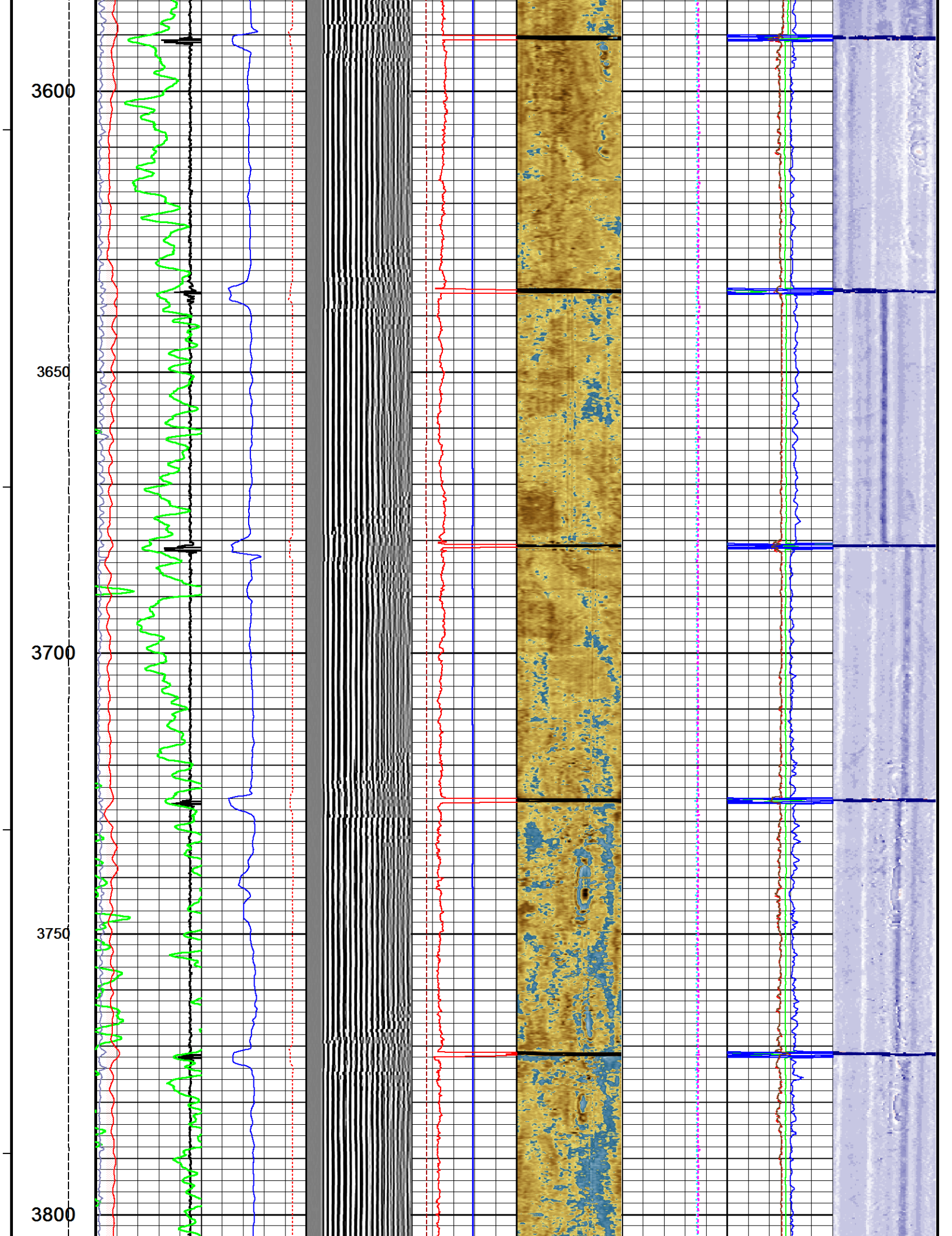


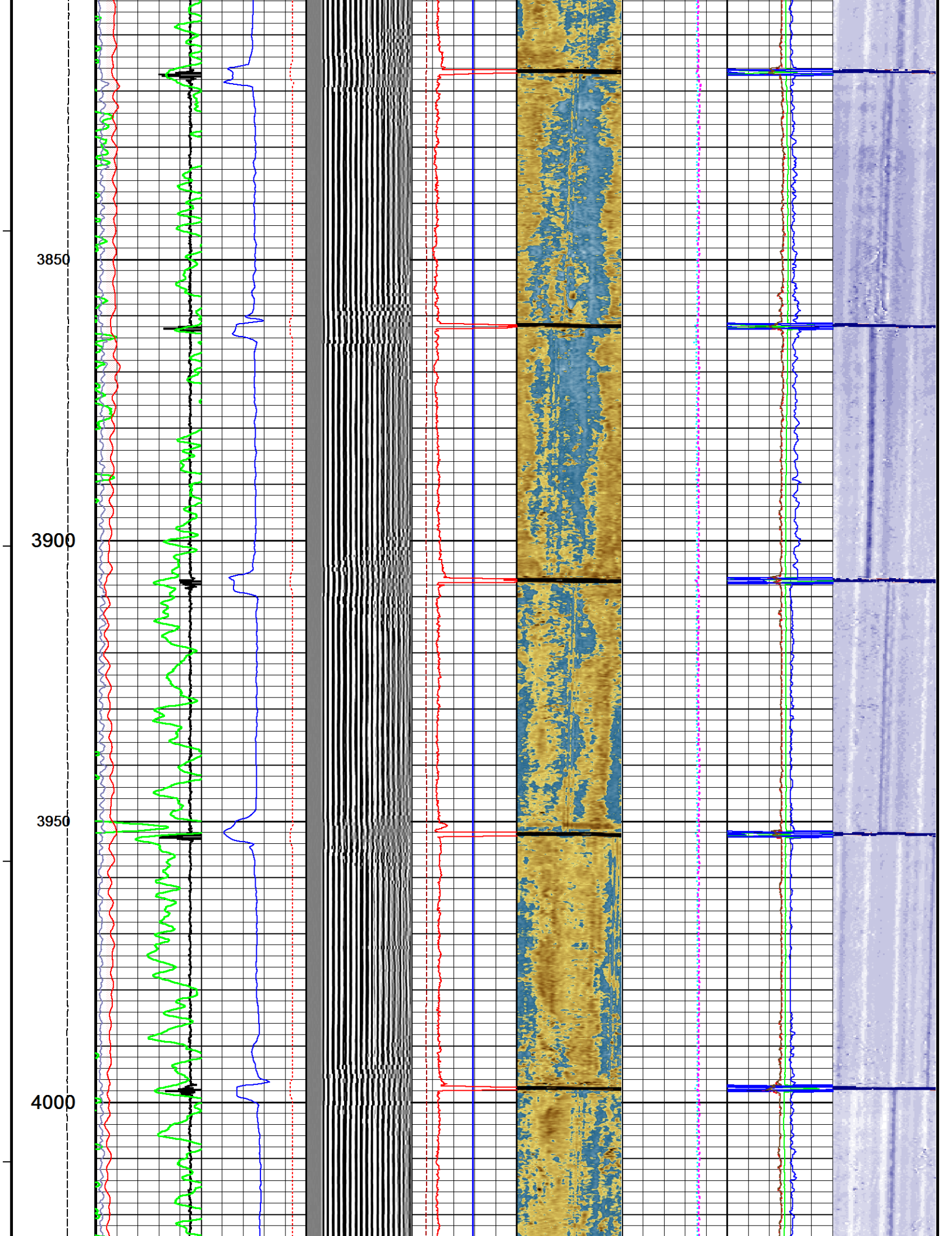




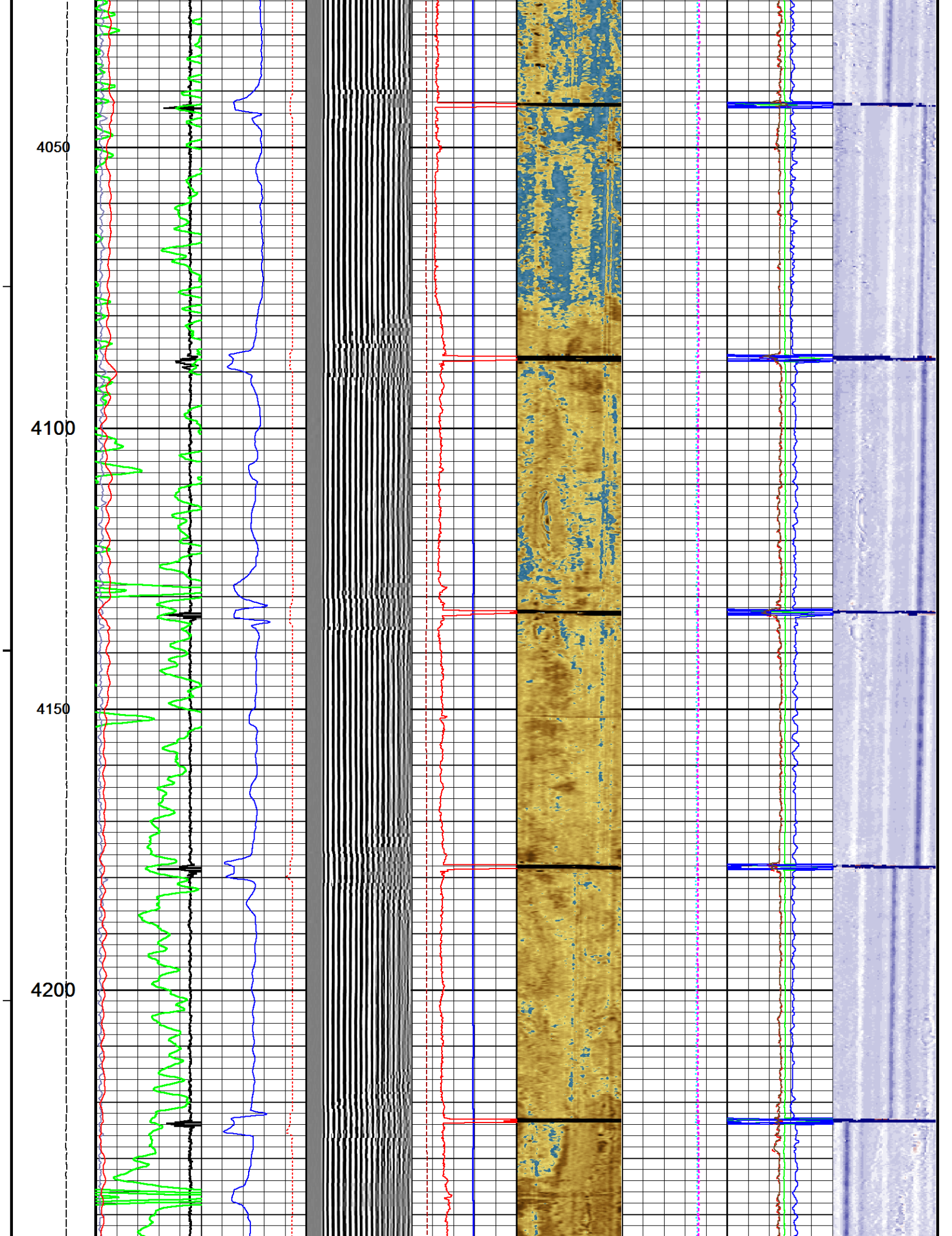


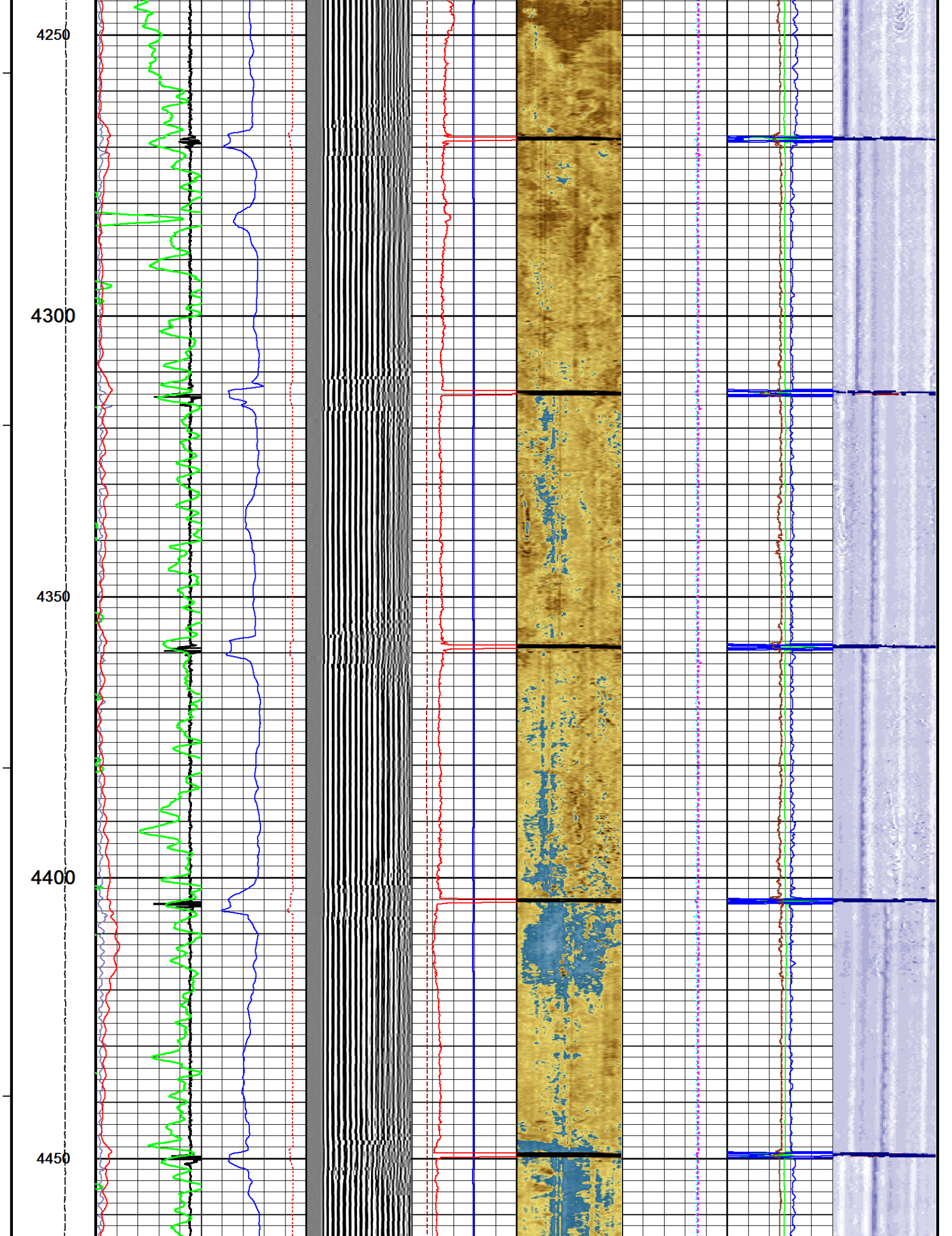




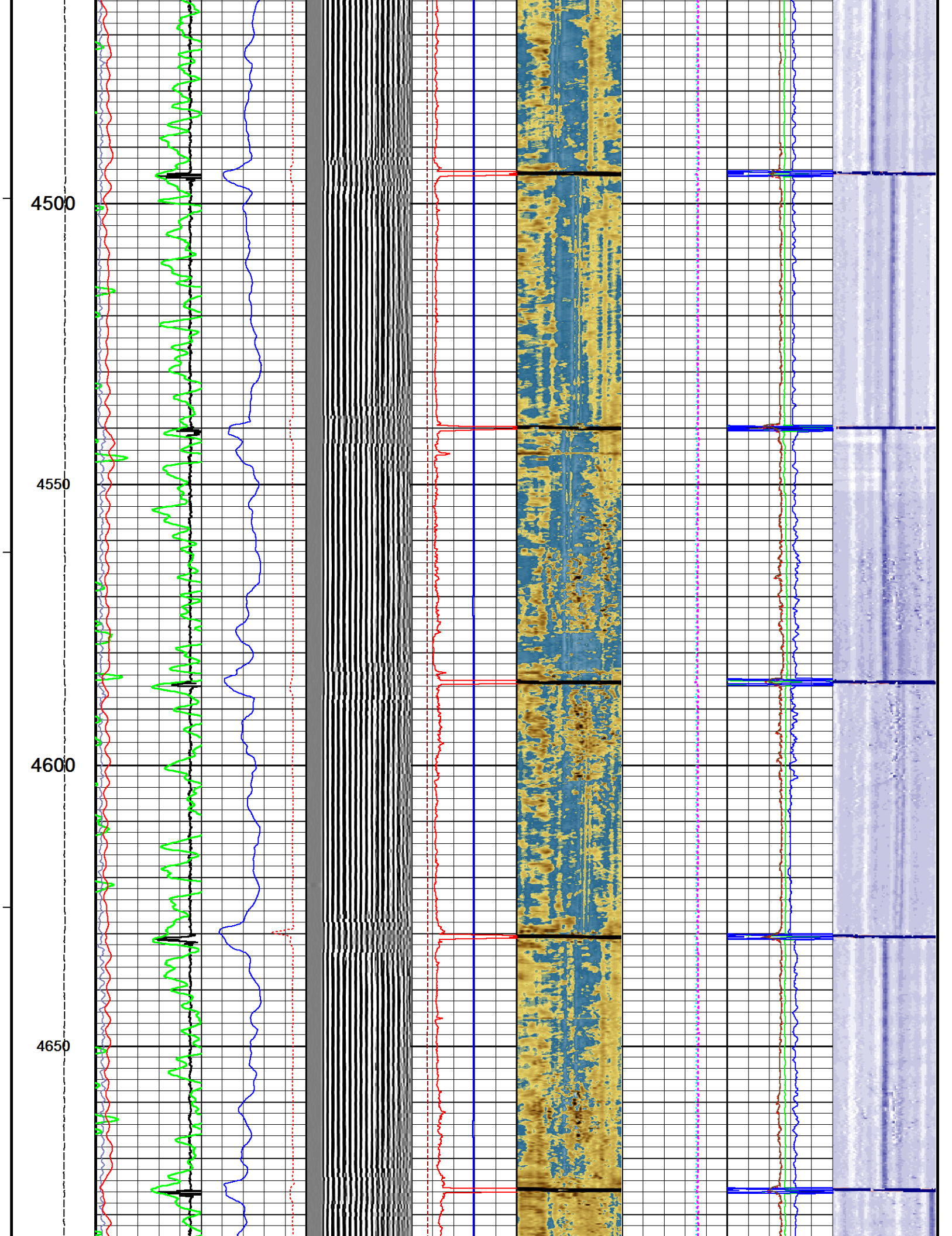




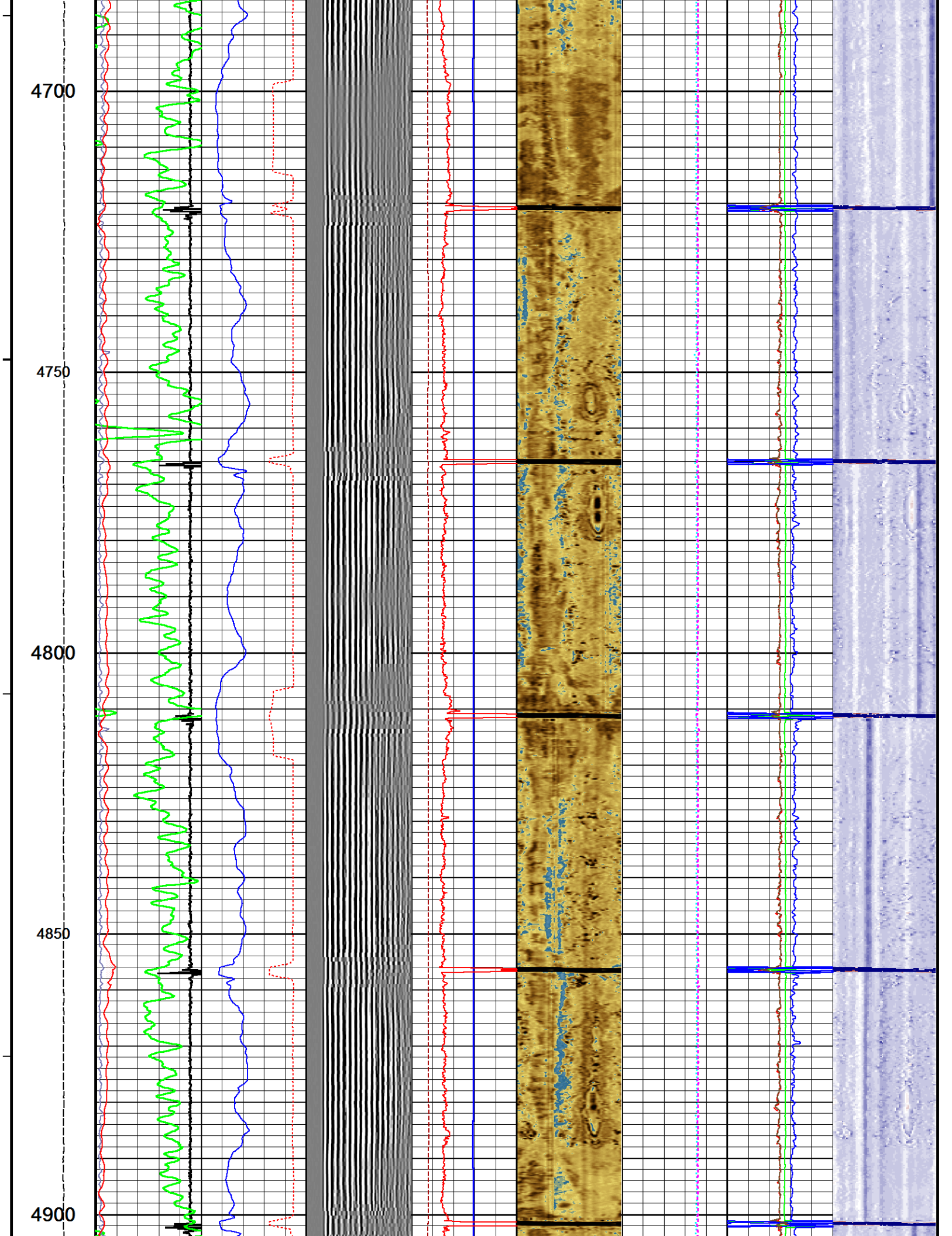


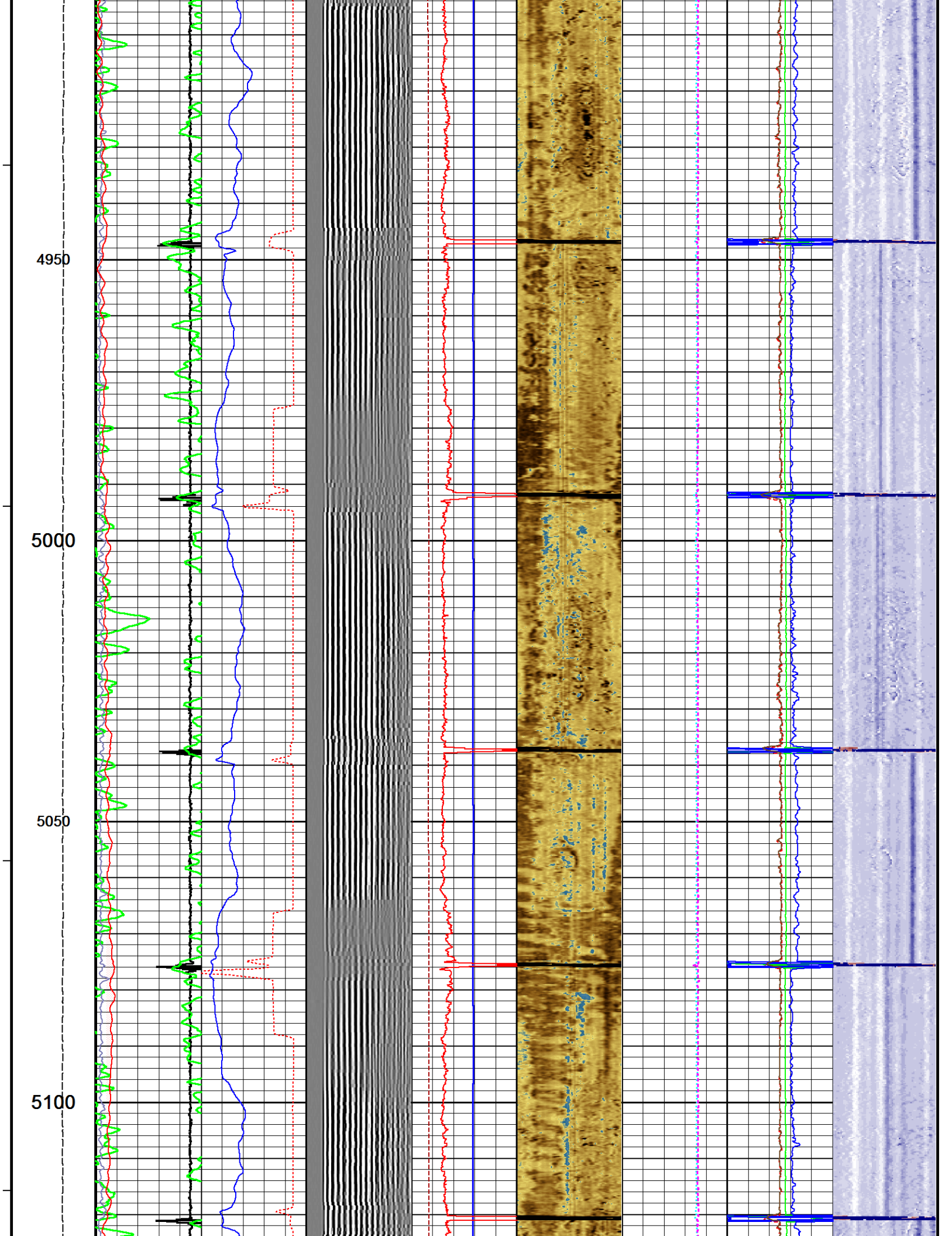




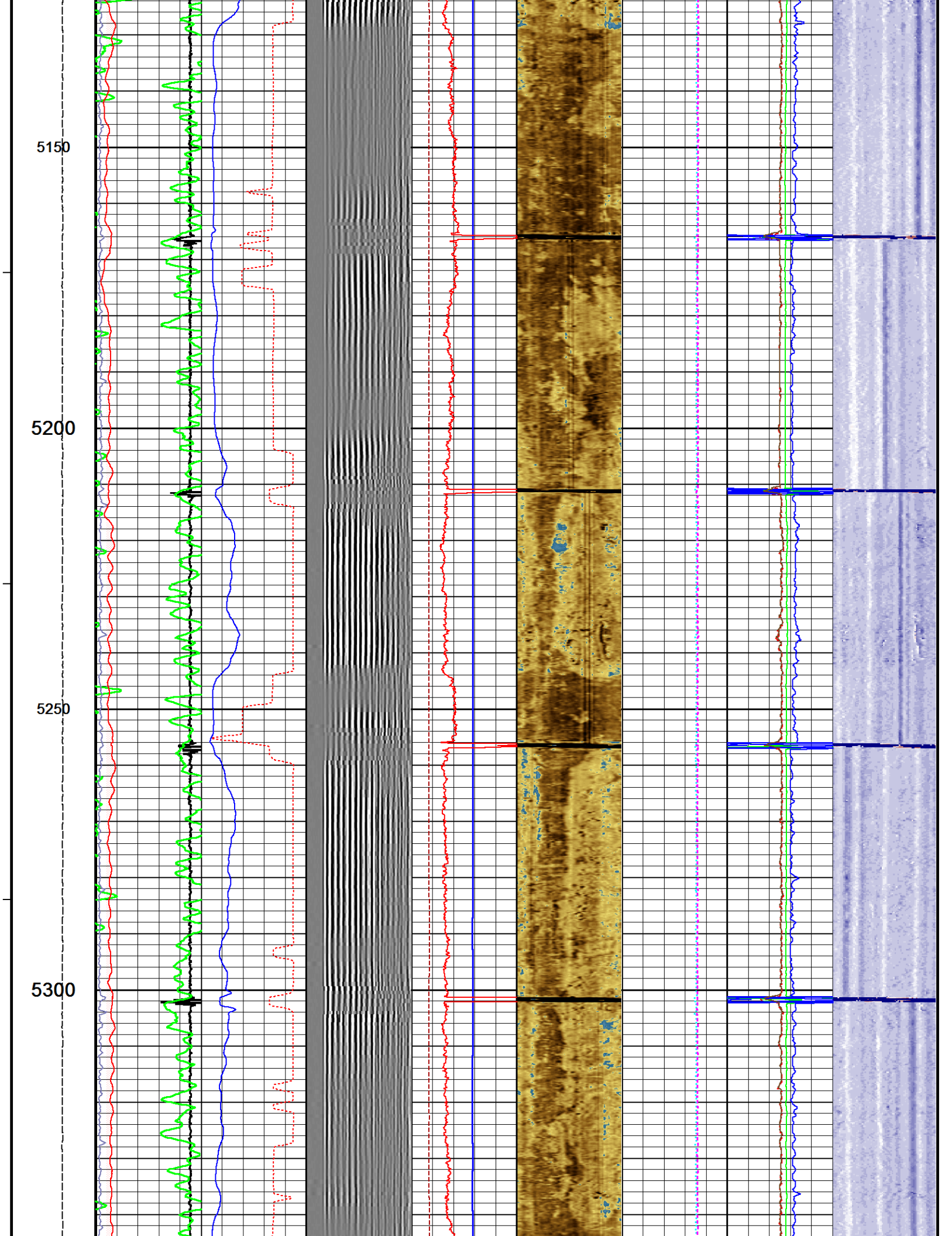






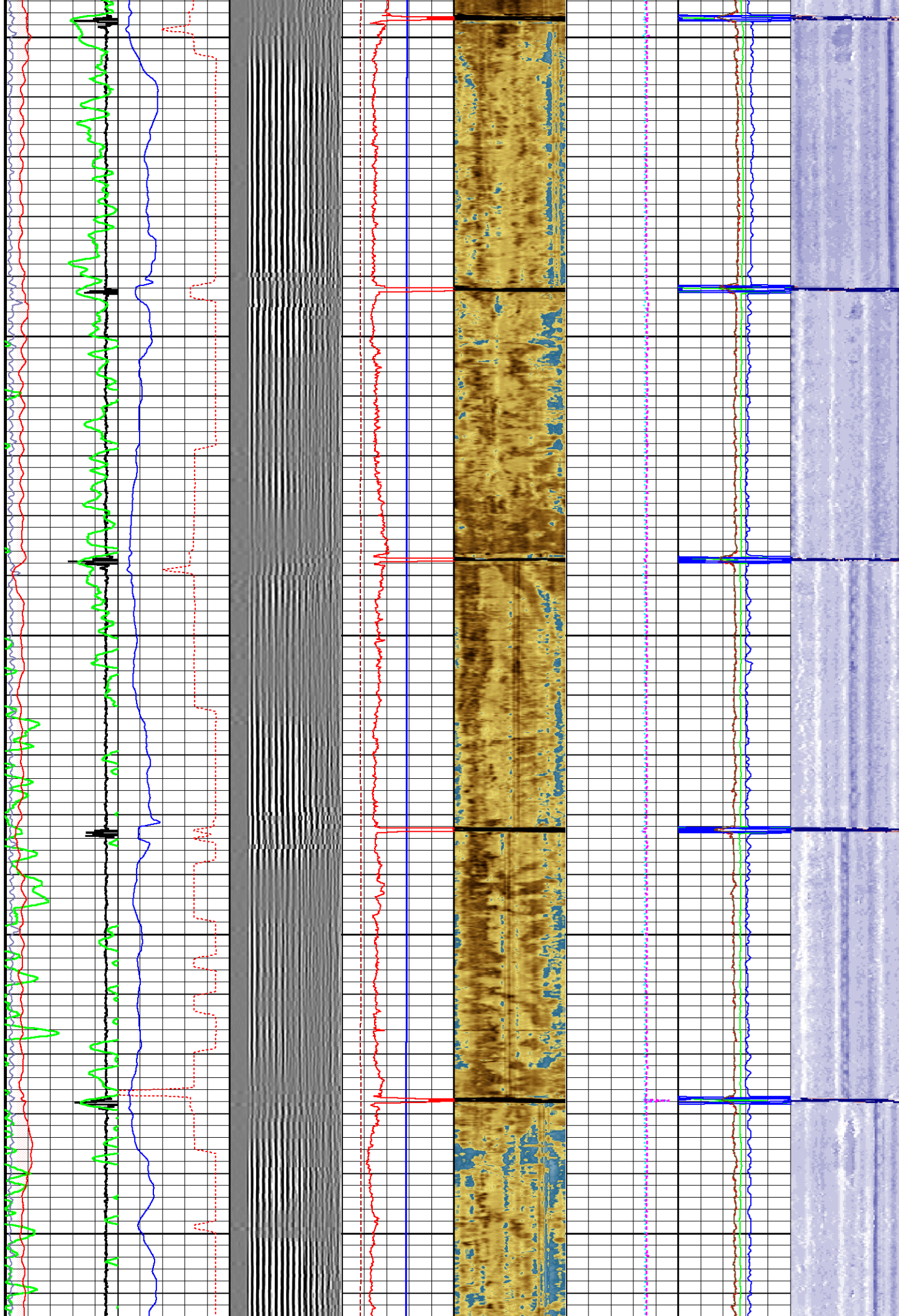


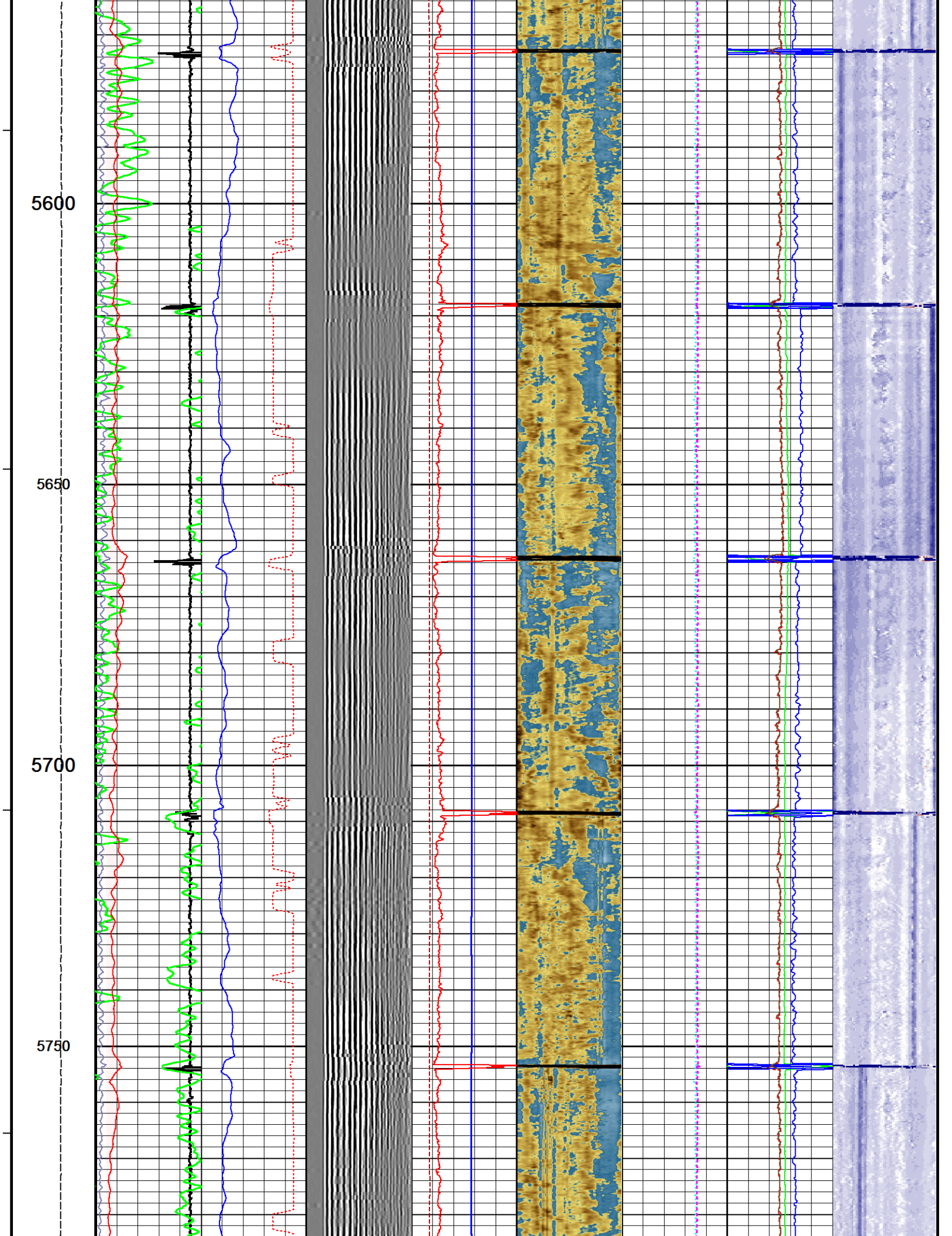




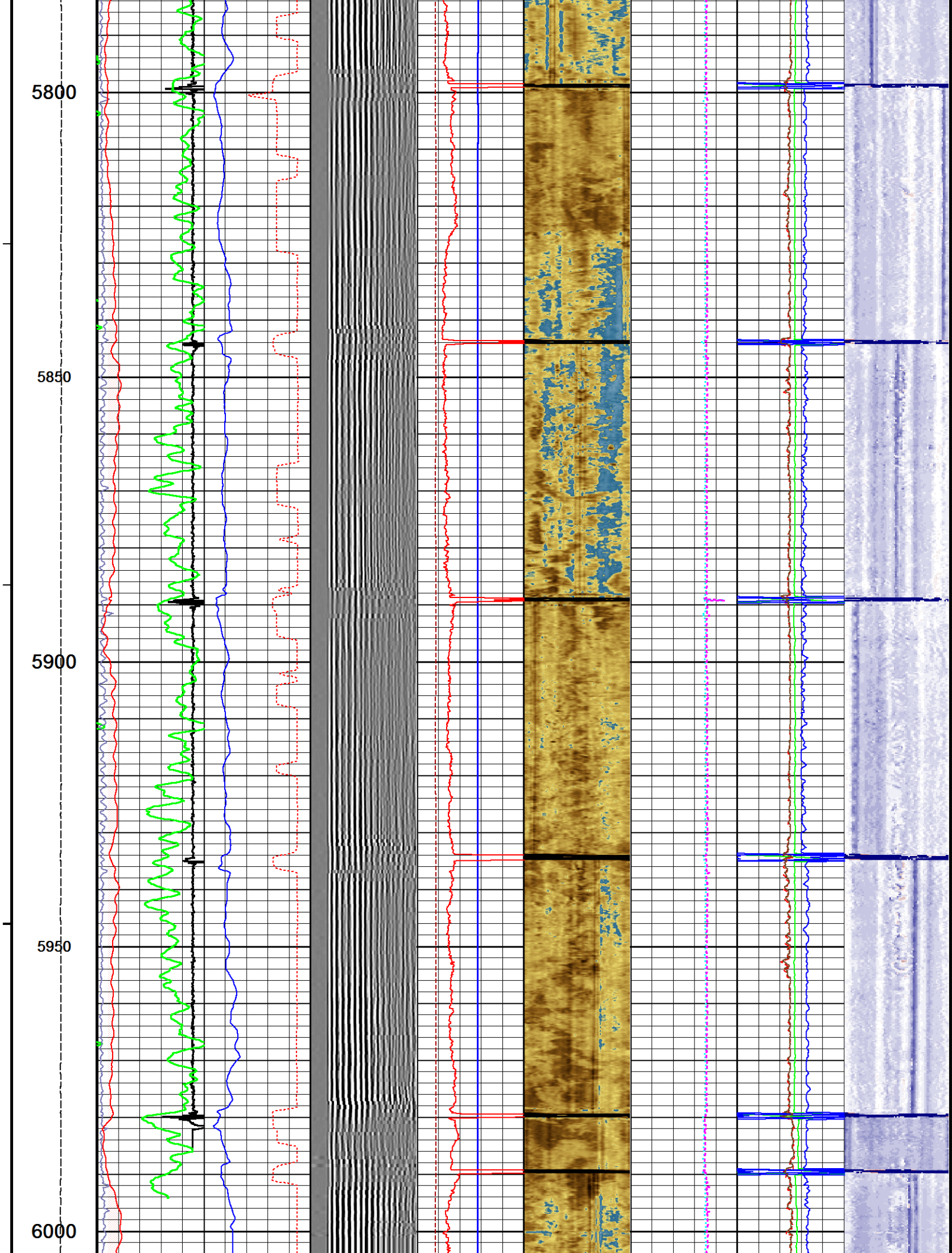


5350  
5400  
5450  
5500  
5550

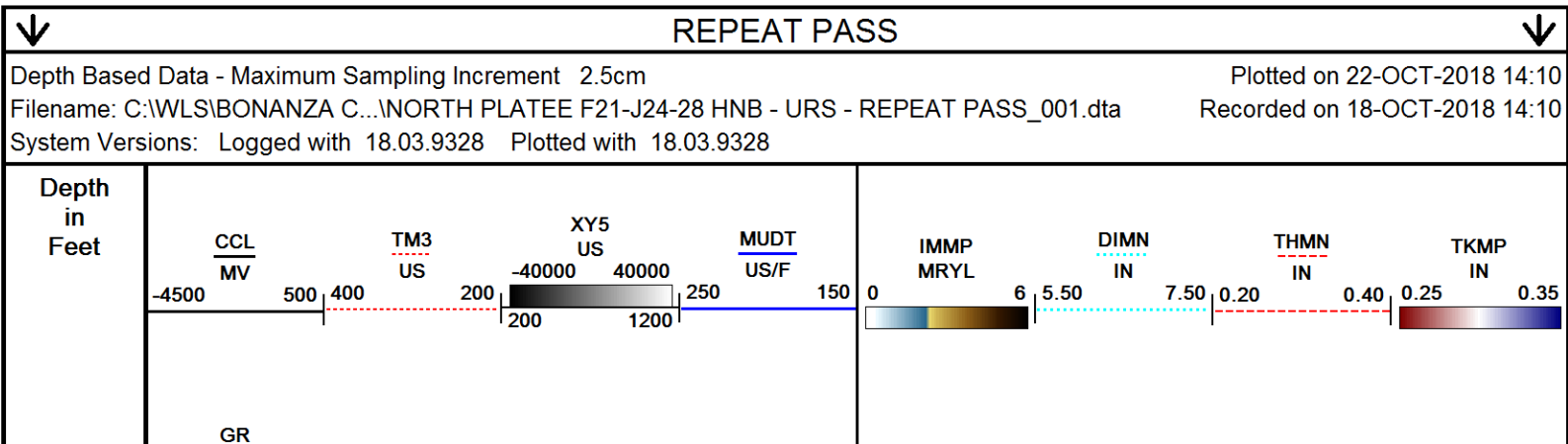
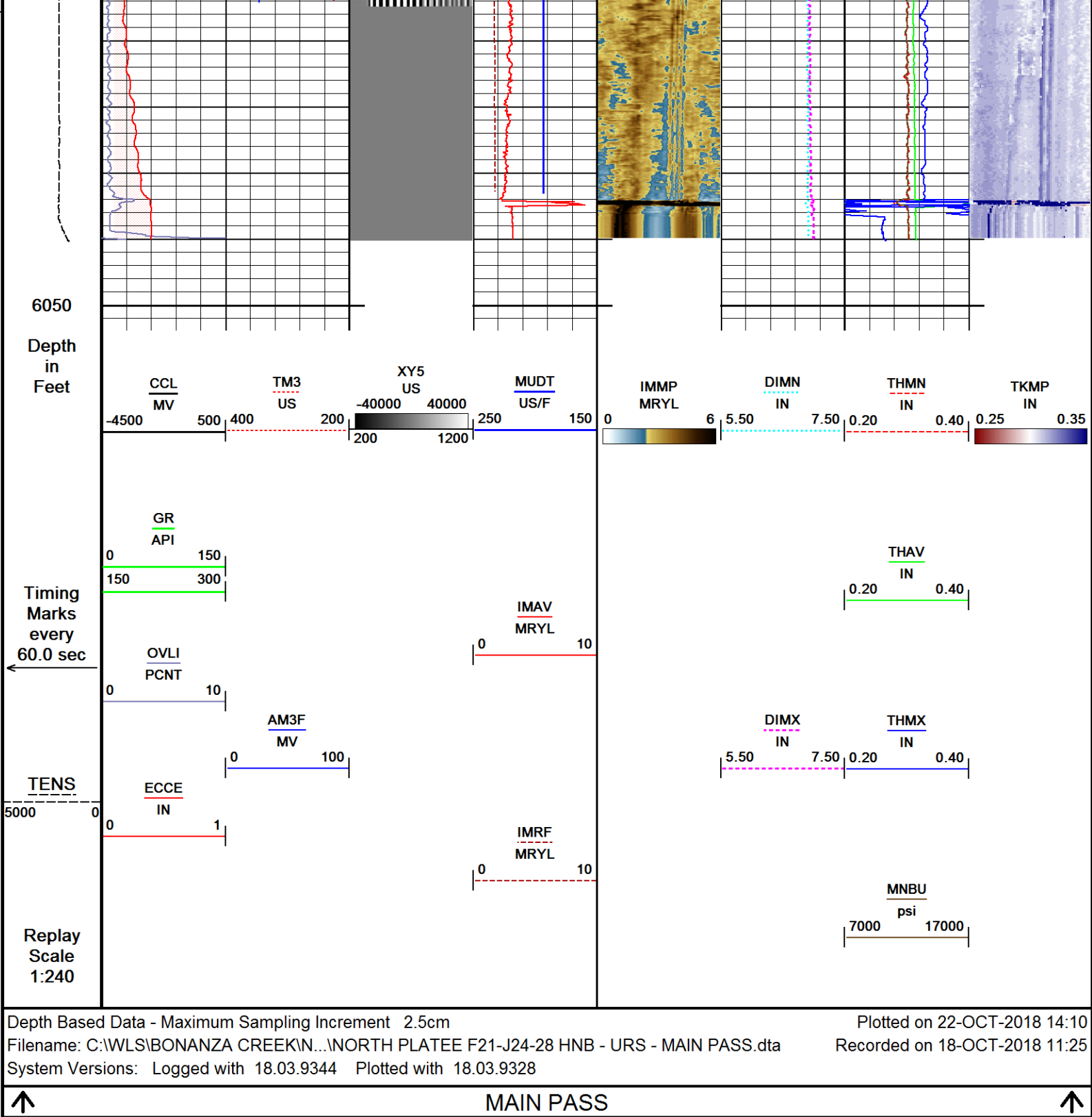


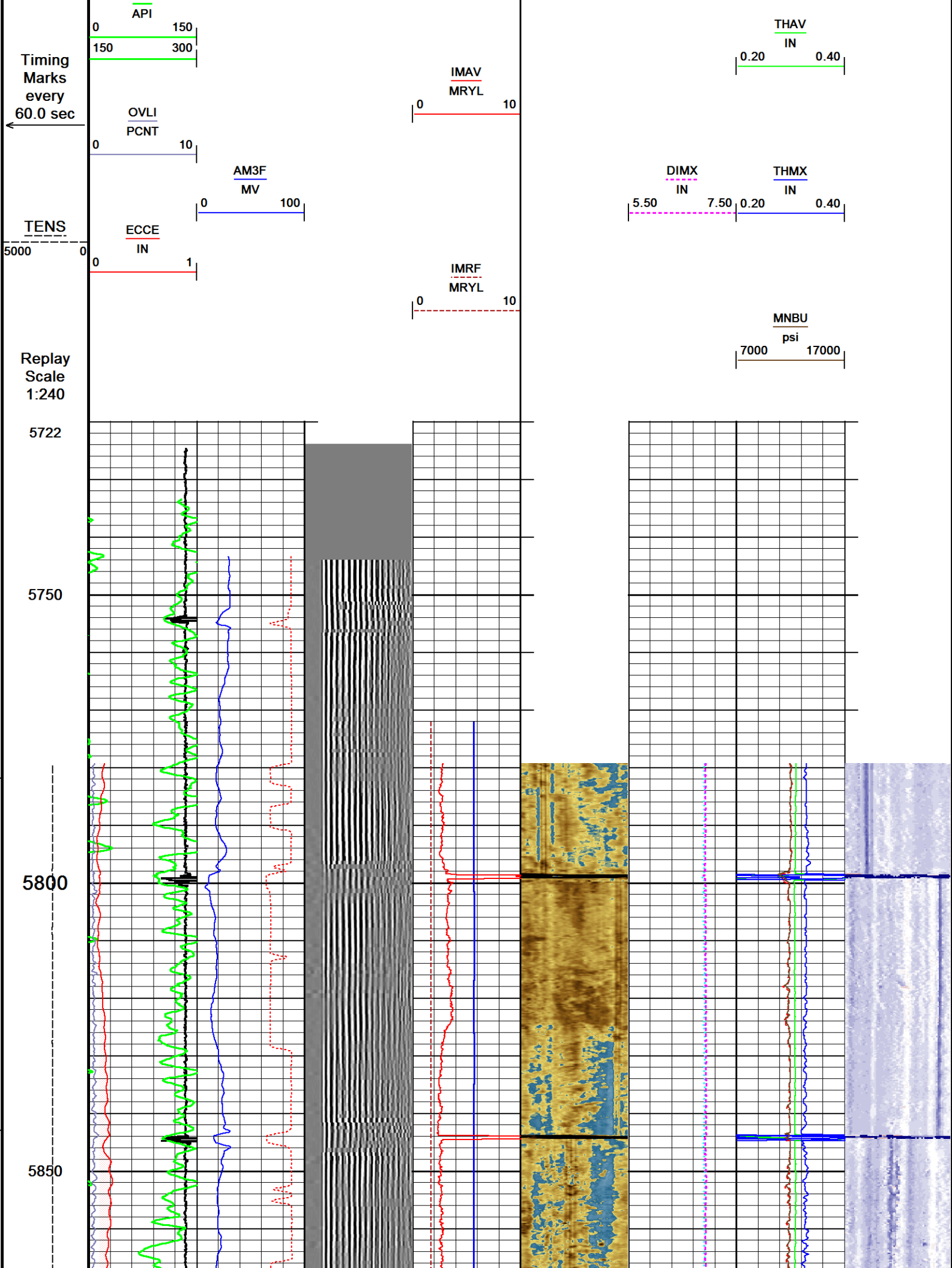












5900

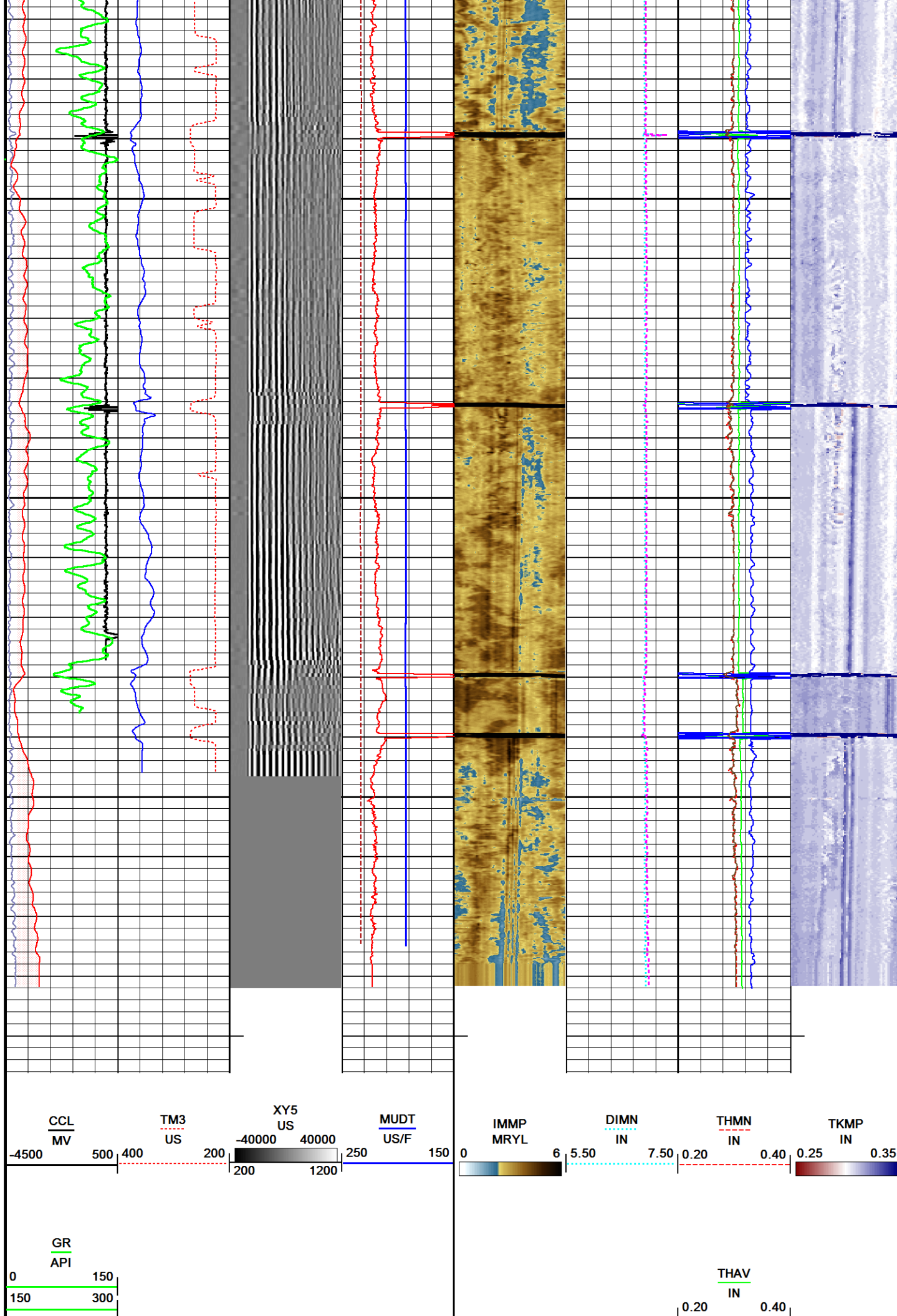
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6000

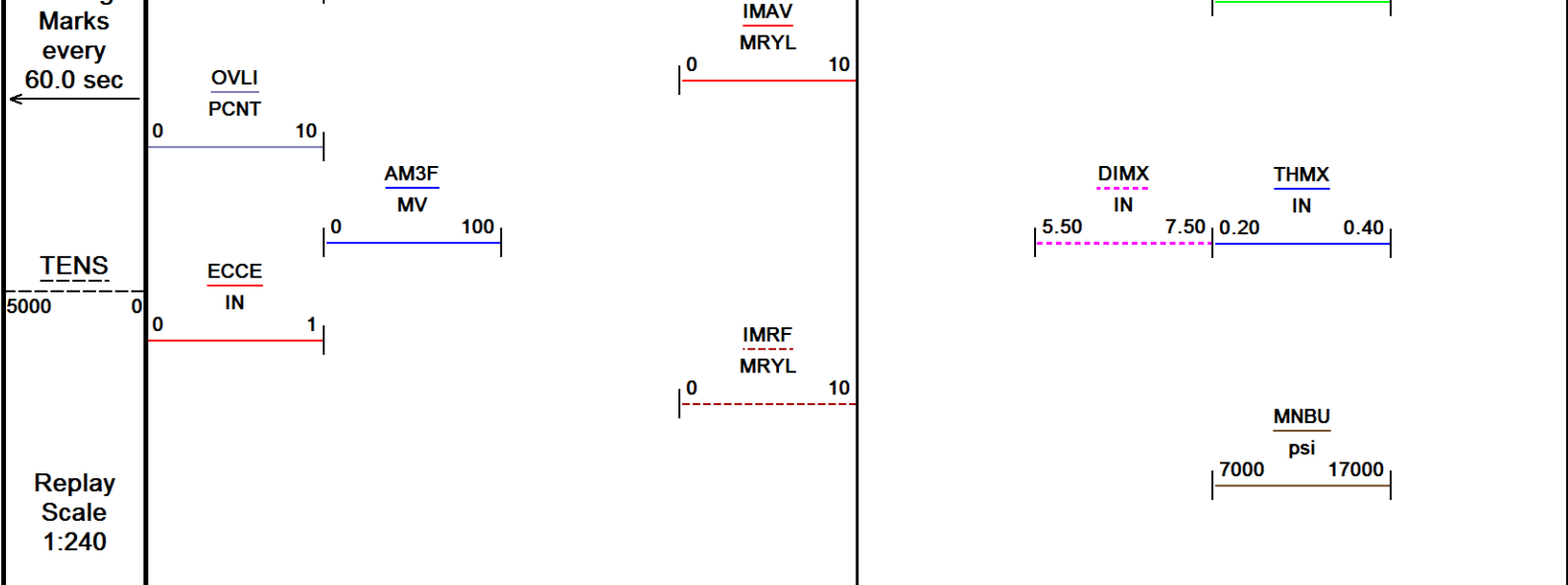
6044

Depth  
in  
Feet

Timing







Depth Based Data - Maximum Sampling Increment 2.5cm  
Plotted on 22-OCT-2018 14:10  
Filename: C:\WLS\BONANZA CREEK\NORTH PLATTE F21-J24-28 HNB - URS - REPEAT PASS\_001.dta  
Recorded on 18-OCT-2018 14:10  
System Versions: Logged with 18.03.9328 Plotted with 18.03.9328

↑ REPEAT PASS ↑

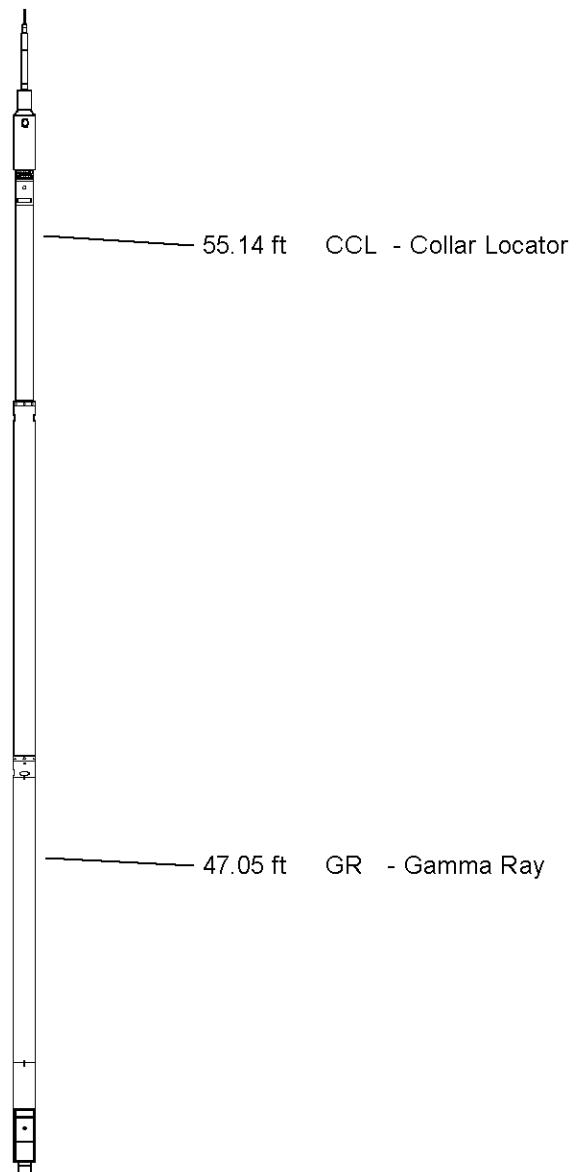
DOWNHOLE EQUIPMENT  
C:\WLS\BONANZA CREEK\NORTH PLATTE F21-J24-28 HNB\NORTH PLATTE F21-J24-28 HNB - URS - REPEAT PASS\_001.dta

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 125 LG: 1.05 ft WT: 15.4 lb OD: 3.386 in

Casing Collar Locator, 55 pin  
CCL-WA 198 LG: 3.01 ft WT: 19.8 lb OD: 2.756 in

Communication Cartridge 55pin 3-3/8in  
WCC-DA 119 LG: 4.60 ft WT: 63.9 lb OD: 3.386 in



Gamma Ray  
UGR-JD 135 LG: 4.60 ft WT: 81.6 lb OD: 3.386 in

55 pin Roller Centralizer  
CEN-XA 196 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

Cement Bond Tool  
CBT-AA 115 LG: 10.75 ft WT: 163.1 lb OD: 3.386 in

36.70 ft AM3F - Amplitude 3FT

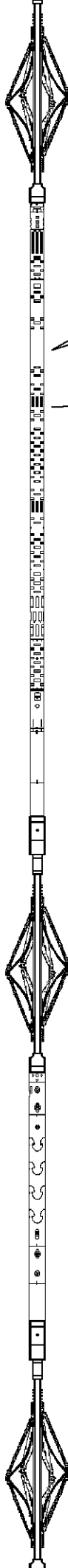
36.70 ft TM3 - Travel Time 3FT

35.70 ft XY5 - XY Signature 5FT

55 pin Roller Centralizer  
CEN-XA 225 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

Flexible Joint, URS, 55 Pin  
FTP-FA 132 LG: 4.35 ft WT: 90.4 lb OD: 3.386 in

55 pin Roller Centralizer  
CEN-XA 213 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

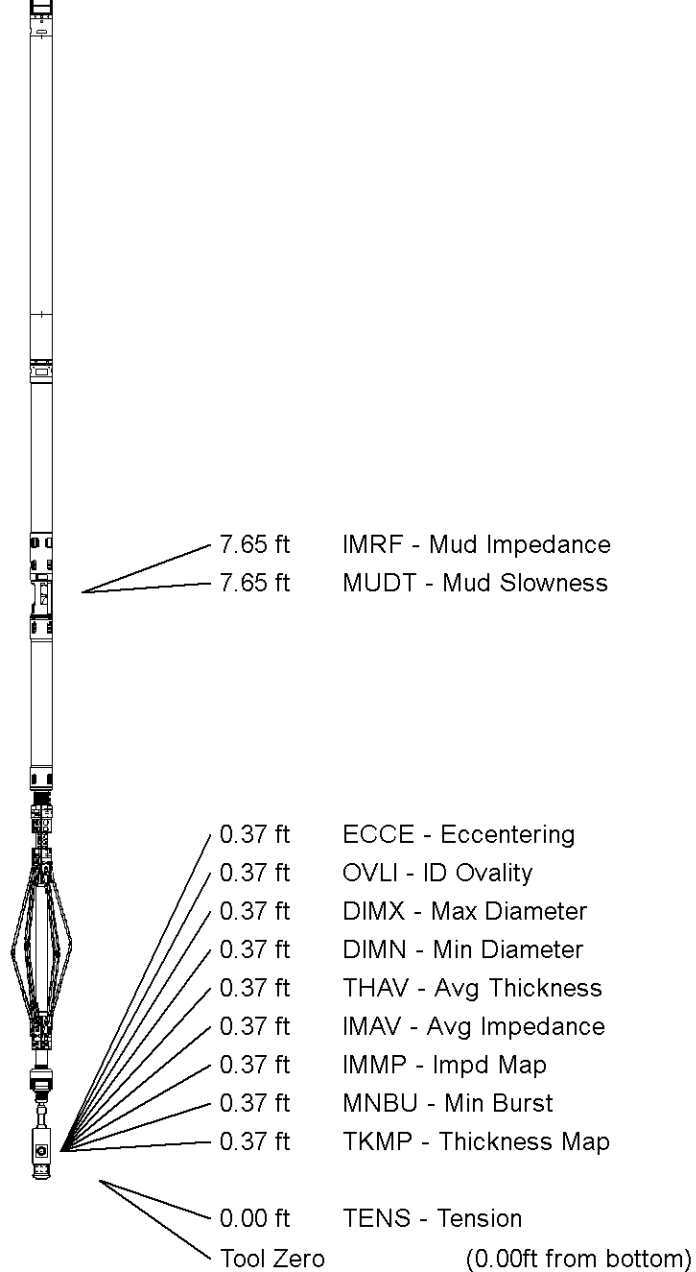


URS Electronics Cartridge  
 UCC-AA 132 LG: 4.51 ft WT: 79.4 lb OD: 3.386 in

URS Sonde Section  
 USS-AB 189 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: 58.06 ft Weight: 954.6 lb



All measurements relative to tool zero.

## SHOP AND FIELD CALIBRATIONS

C:\WLS\BONANZA CREEK\NORTH PLATTE F21-J24-28 HNB\NORTH PLATEE F21-J24-28 HNB - URS - MAIN PASS.dta

CBT Field calibration CBT-AA 115

Field calibration on 18-OCT-2018 10:40

Cement Bond Tool Amplitude Field calibration

Tool Type CBT-AA

Serial No 115

Free Pipe Depth

Sensor	Description	Standard(mV)	Measured(mV)
AMP 3 FT	100 % Bond	5.60	1.40
	Free Pipe	72.00	790.00
AMP 5 FT	100 % Bond	0.90	1.86
	Free Pipe	48.00	810.00

CBT Field calibration CBT-AA 115



Last Edited on 18-OCT-2018 11:17

Min Ampl 100% Bond	5.63 MV
Max Ampl 0% Bond	71.77 MV
Cement Cmpr Strength	580 PSI
Casing Size	5.50 IN
Casing Weight	17.0 LB/F
Casing Velocity	57.00 US/F
DT Fluid	200.0 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 17-OCT-2018 13:00

Ultrasonic Radial Scanner Before Calibration

Tool Type USH-AB Serial No 136

	Measured	Minimum	Maximum	
Free Pipe	-999.250	0.000	0.000	MRYL
Mud Impedance	4.060	0.000	0.000	MRYL

URS Constants USH-AB 136

Last Edited on 18-OCT-2018 11:17

\*\*\* 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	3.57
ZMud Cal Area Ratio	3.79


\*\* 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	1629.00	5.50	36.00	1.50	1.50	0.30	1.00
0.00	11680.00	5.50	17.00	5.41	4.06	0.30	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	1.70 MRYL
Z_mud Outside	1.70 MRYL

Gas Impedance Cutoff	0.38 MRYL
Fluid Impedance Cutoff	2.30 MRYL
Contam Impedance Cutoff	2.70 MRYL
Relative Bearing Rotate	OFF
RB Offset Angle	0.00 DEG
Cement Density	14.00 LB/G

COMPANY	BONANZA CREEK ENERGY				
WELL	NORTH PLATTE F21-J24-28 HNB				
FIELD	WATTENBERG				
PROVINCE/COUNTY	WELD				
COUNTRY/STATE	US / COLORADO				
Elevation Kelly Bushing	4570	feet	Bottom Log Interval	6034.00	feet
Elevation Drill Floor	4570	feet	Depth Driller	11537.00	feet
Elevation Ground Level	4553	feet	Depth Logger	6034.00	feet
<div><div>Weatherford®</div></div> <div>SECUREVIEW ULTRAVIEW / BONDVIEW COMPOSITE</div>					