

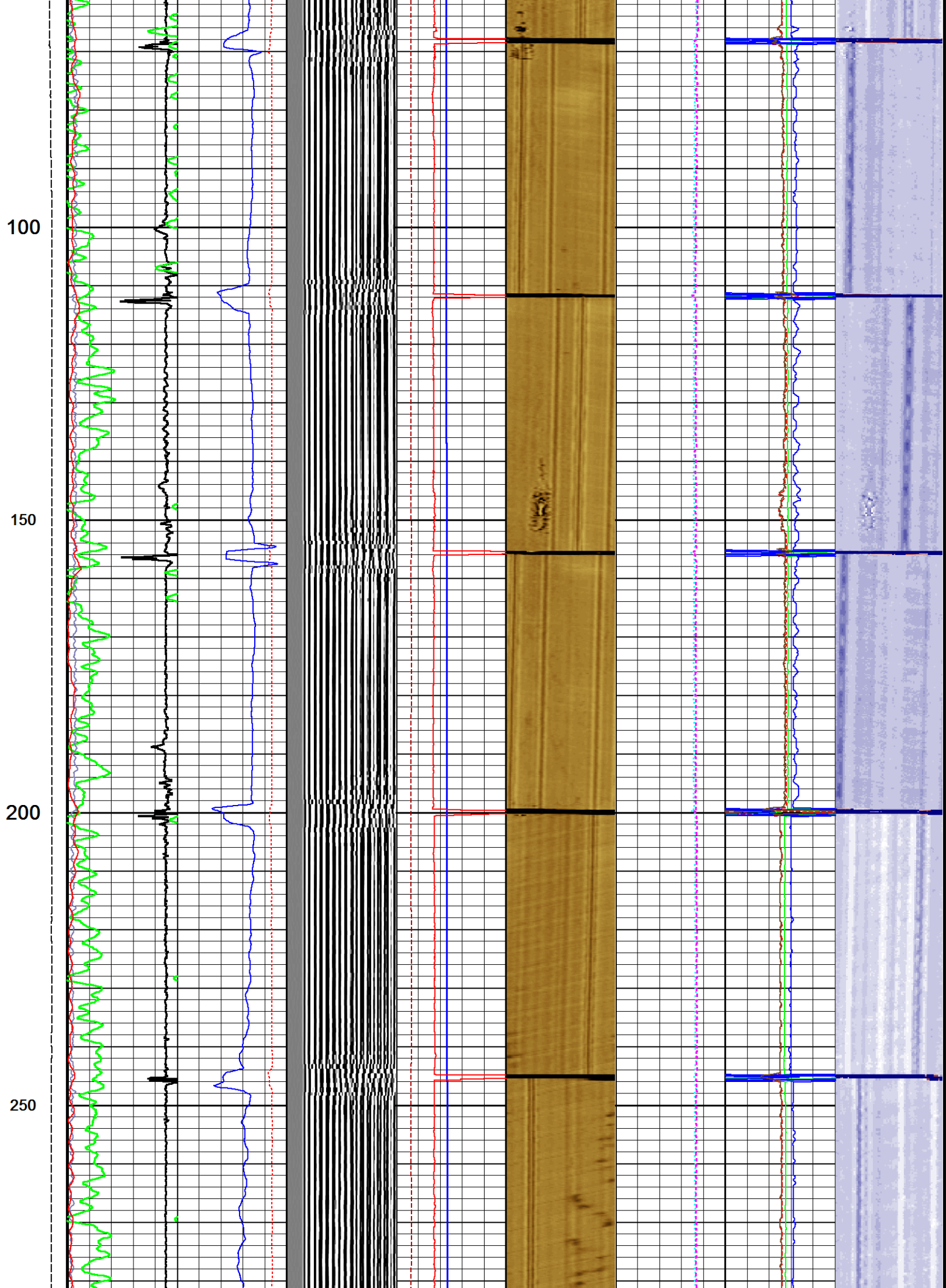
			SECUREVIEW			
			ULTRAVIEW / BONDVIEW			
			LOG			
COMPANY			BONANZA CREEK ENERGY			
WELL			NORTH PLATTE A11-E14-28 HNB			
FIELD			WATTENBERG			
PROVINCE/COUNTY			WELD			
COUNTRY/STATE			US / COLORADO			
LOCATION			1437' FSL 1385' FWL			
SEC	TWP	RGE	Other Services			
Latitude			CALVIEW			
Longitude			CASING ANALYSIS LOG			
API Number	05-123-47013					
Permanent Datum GL, Elevation 4553 feet						
Log Measured From KB, 17.00 feet above Permanent Datum						
Drilling Measured From KB						
Date	18-OCT-2018		PERFORATION RECORD			
Run Number	ONE		Shot	Number	Depth From	Depth To
Service Order	18188-227/003607		Density	of Shots	feet	feet
Type Log	URS					
Depth Driller	11737.00					
Depth Logger	6145.00					
Top Log Interval	0.00					
Bottom Log Interval	6145.00					
Hole Fluid Type	WATER					
Hole Fluid Level	0.00					
Restriction ID	4.892					
Max Recorded Temp	190.00					
Well Head Pressure	0.00					
Well Head Equipment	NA					
Time Well Ready	R.O.A.					
Time Logger Bottom	SEE LOG					
Unit	14166					
Equipment Name	WSSE					
Base	CASPER					
Recorded By	BASHEER A.					
Witnessed By	Kurt Dodge					

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.



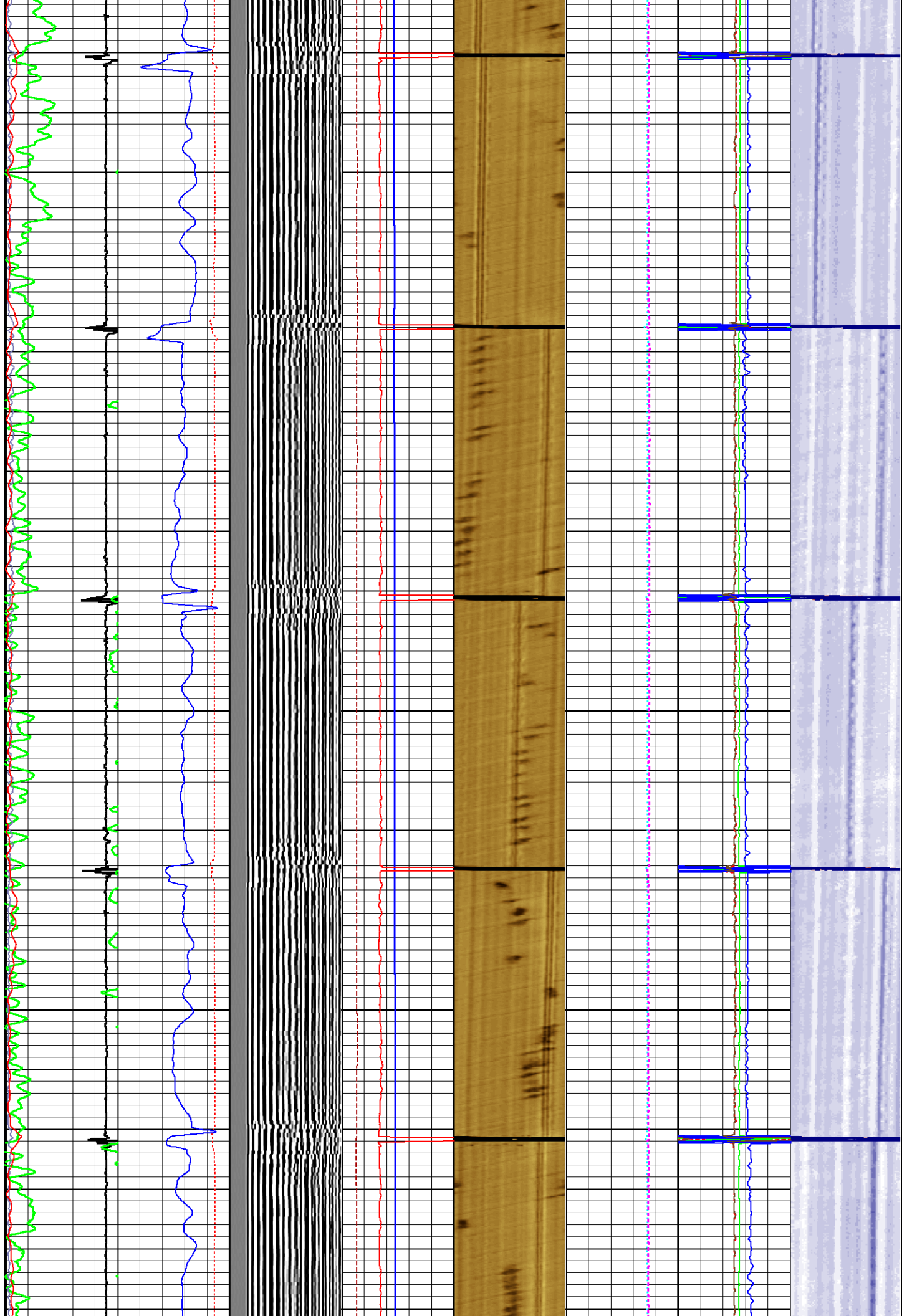
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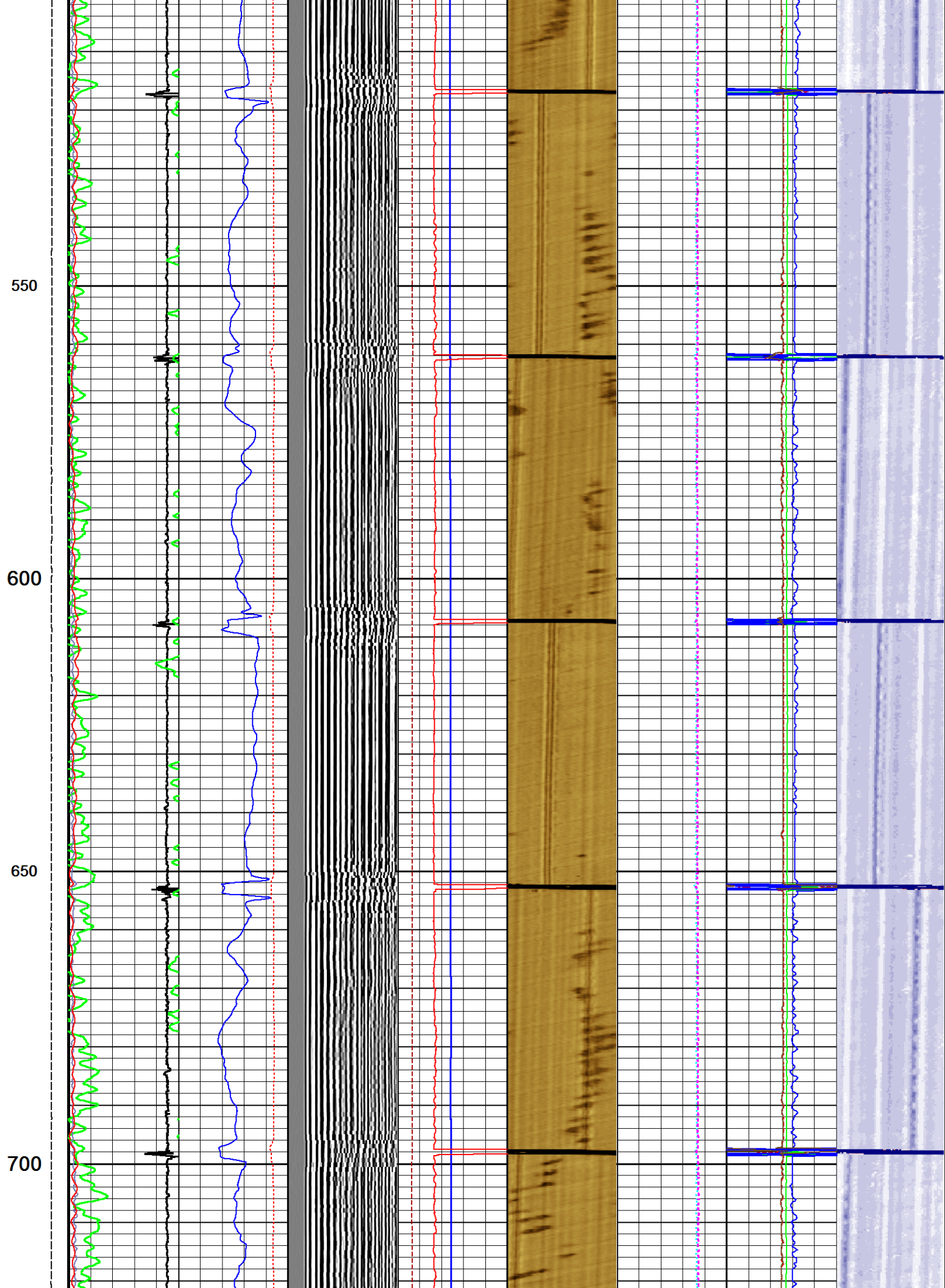
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400

450

500



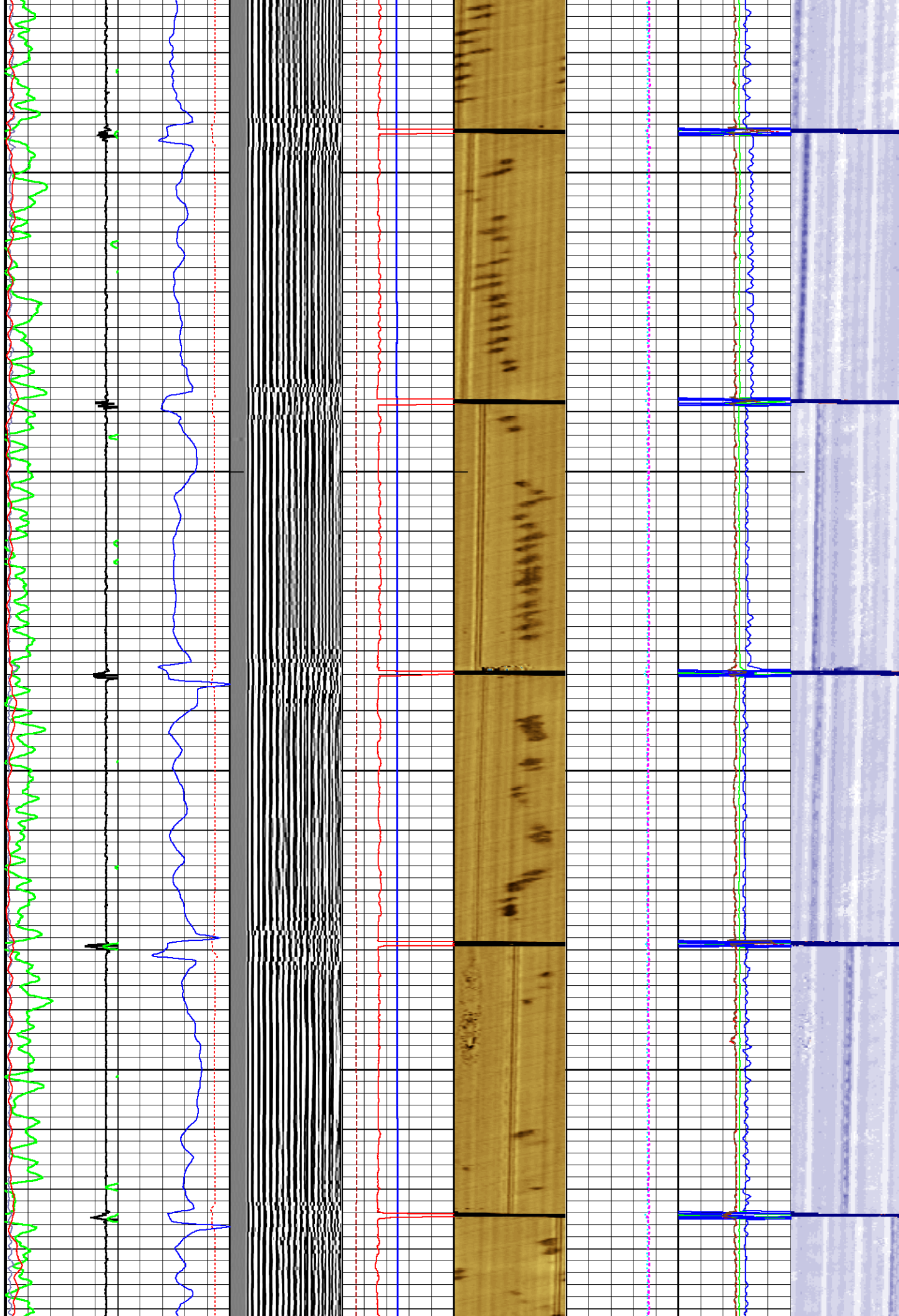


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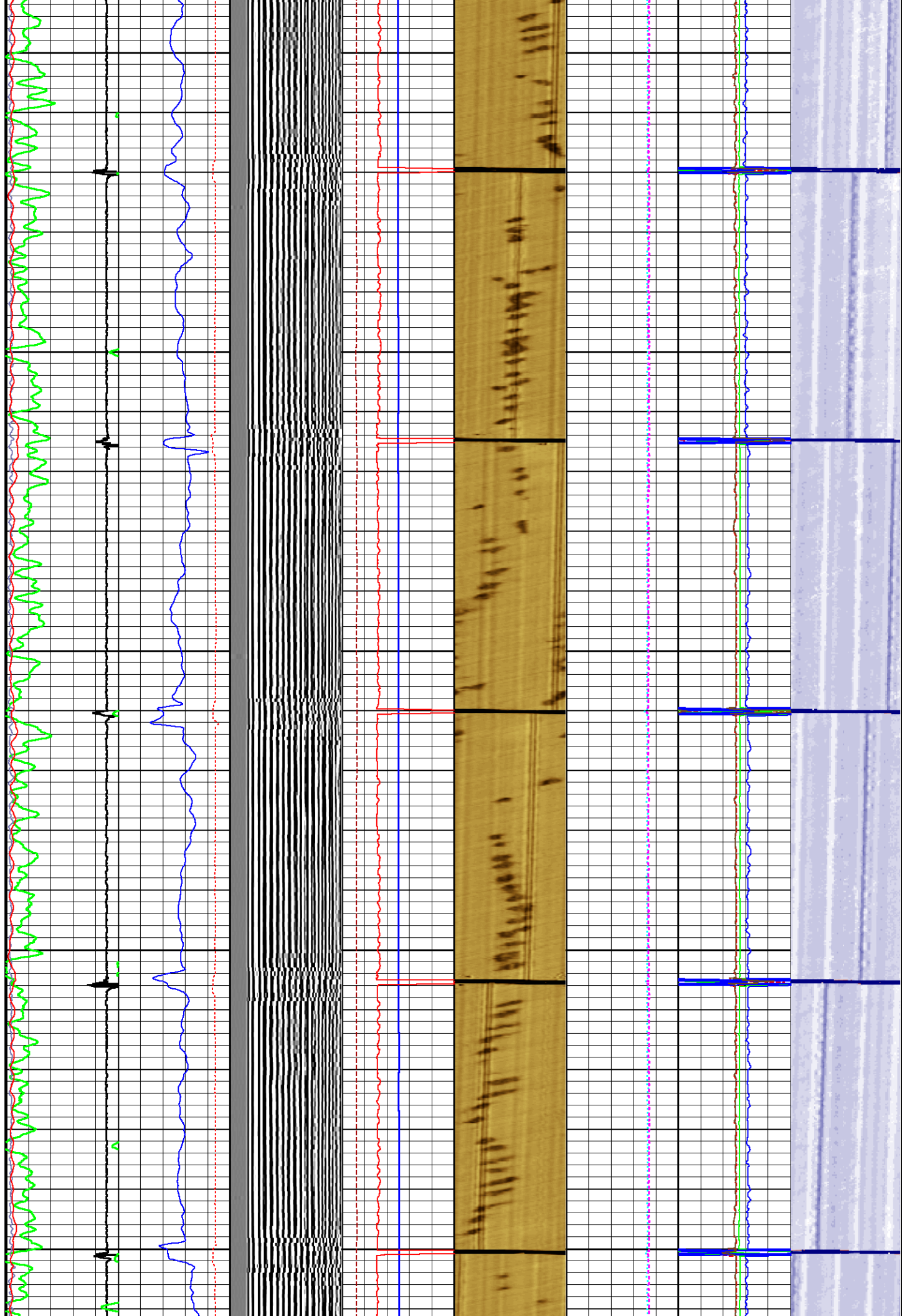
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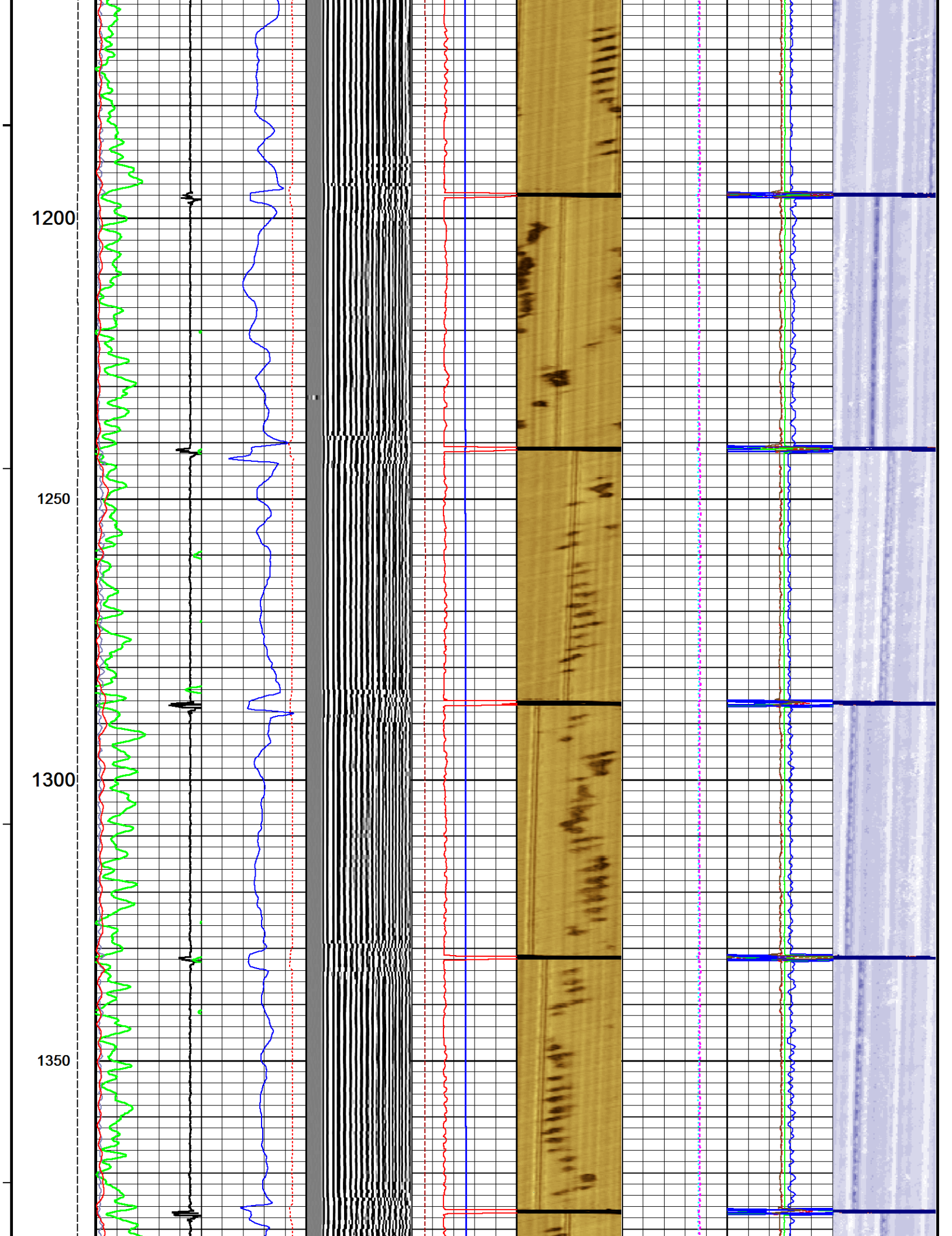
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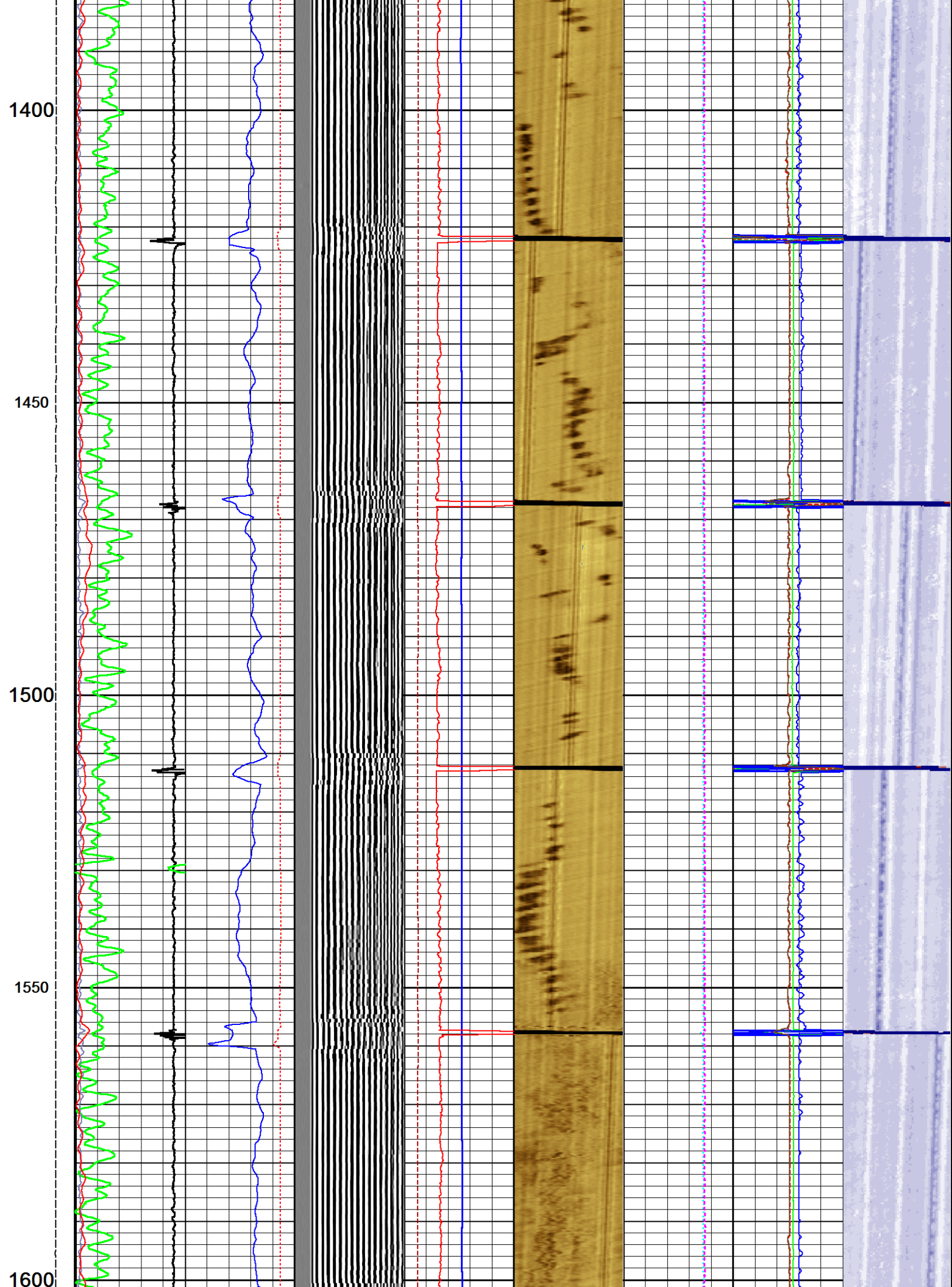
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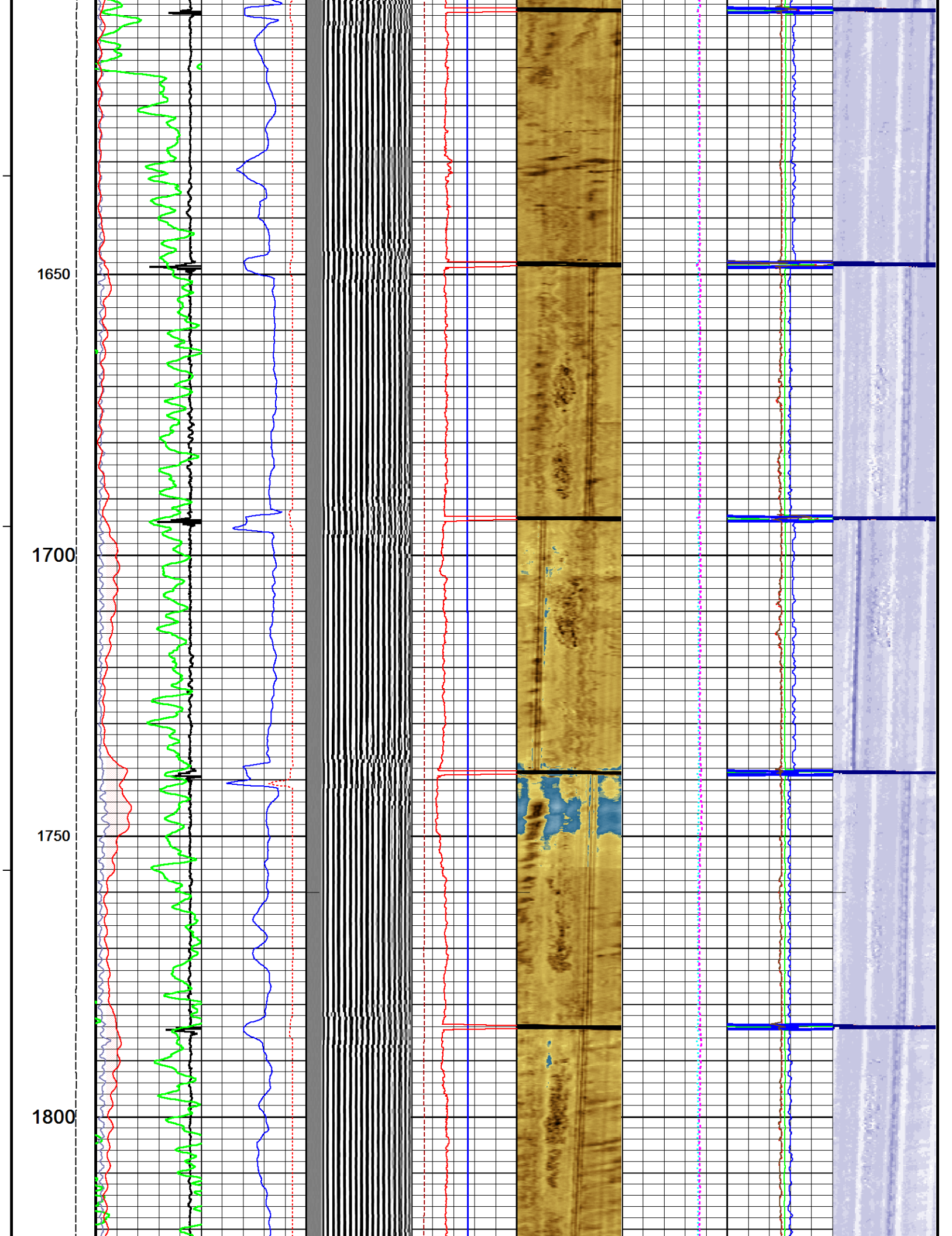


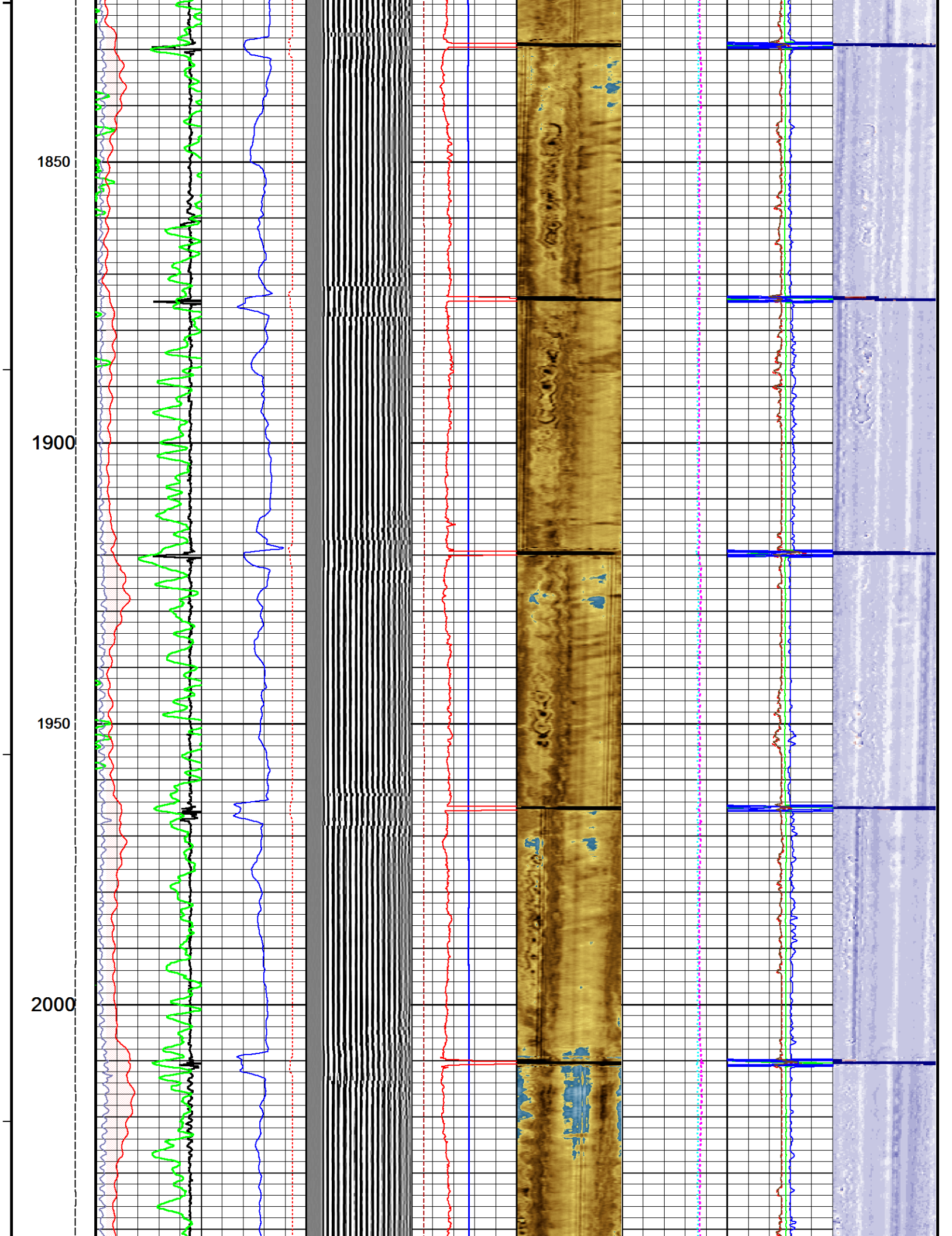
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1000
1050
1100
1150

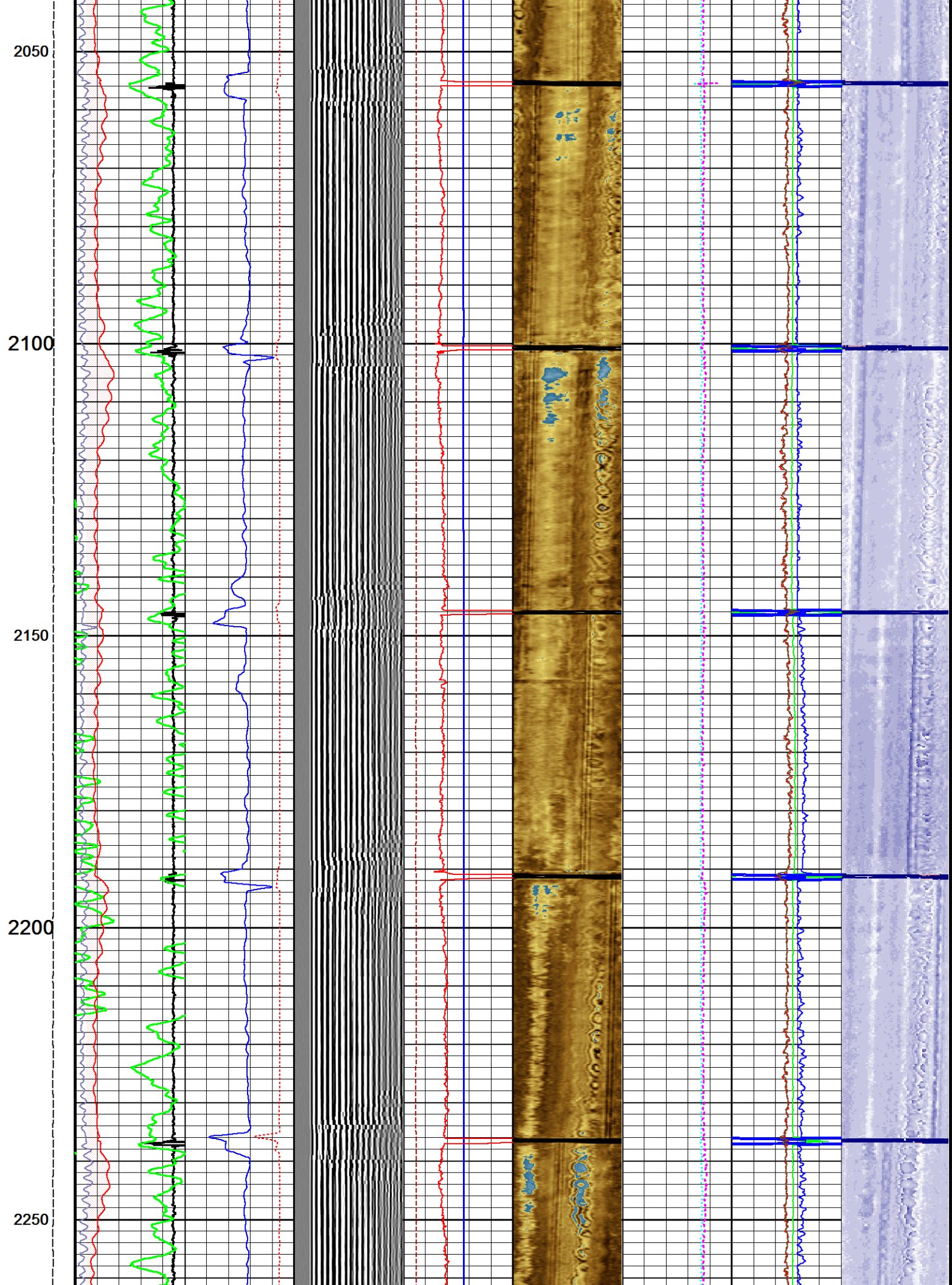


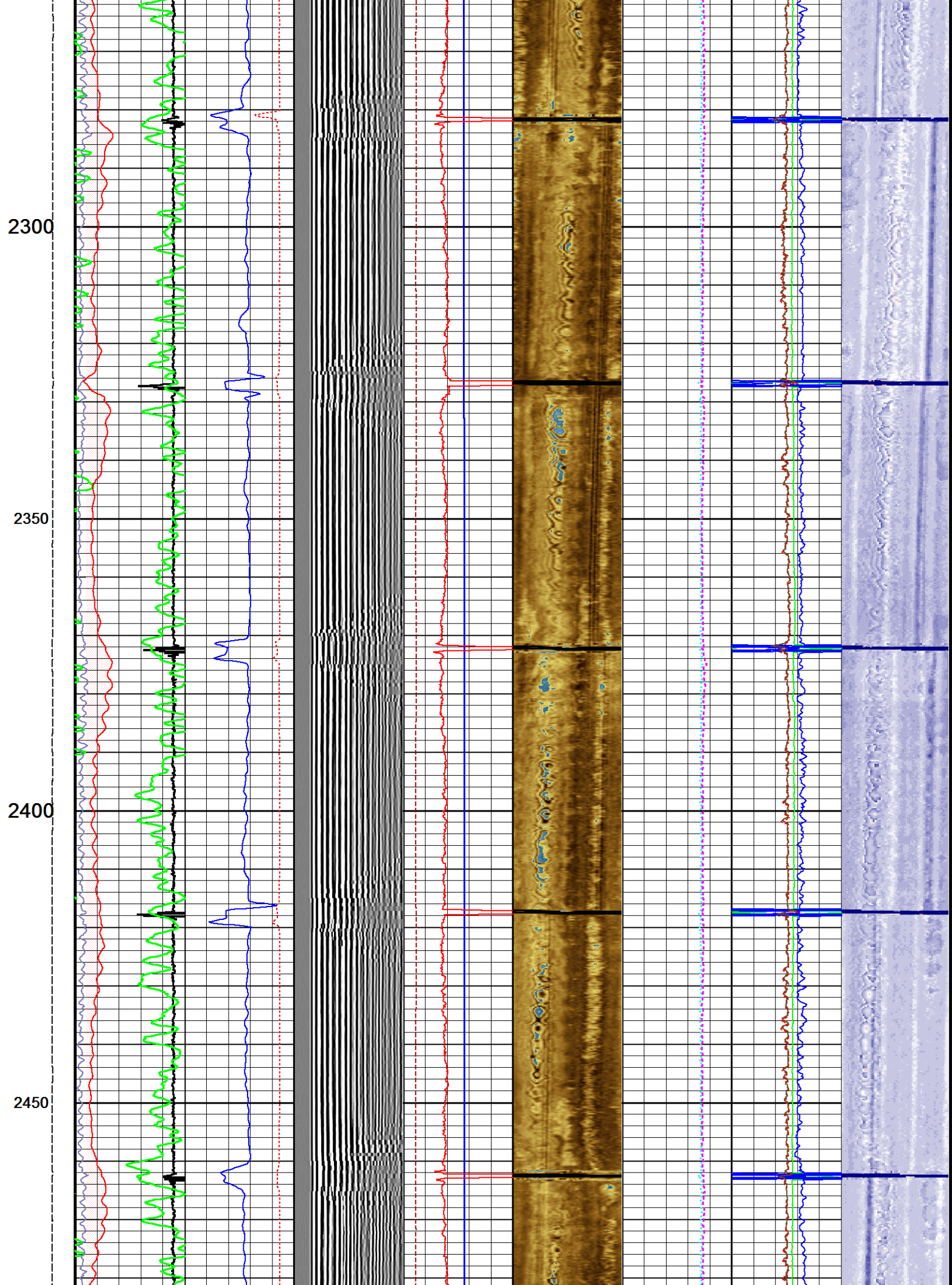


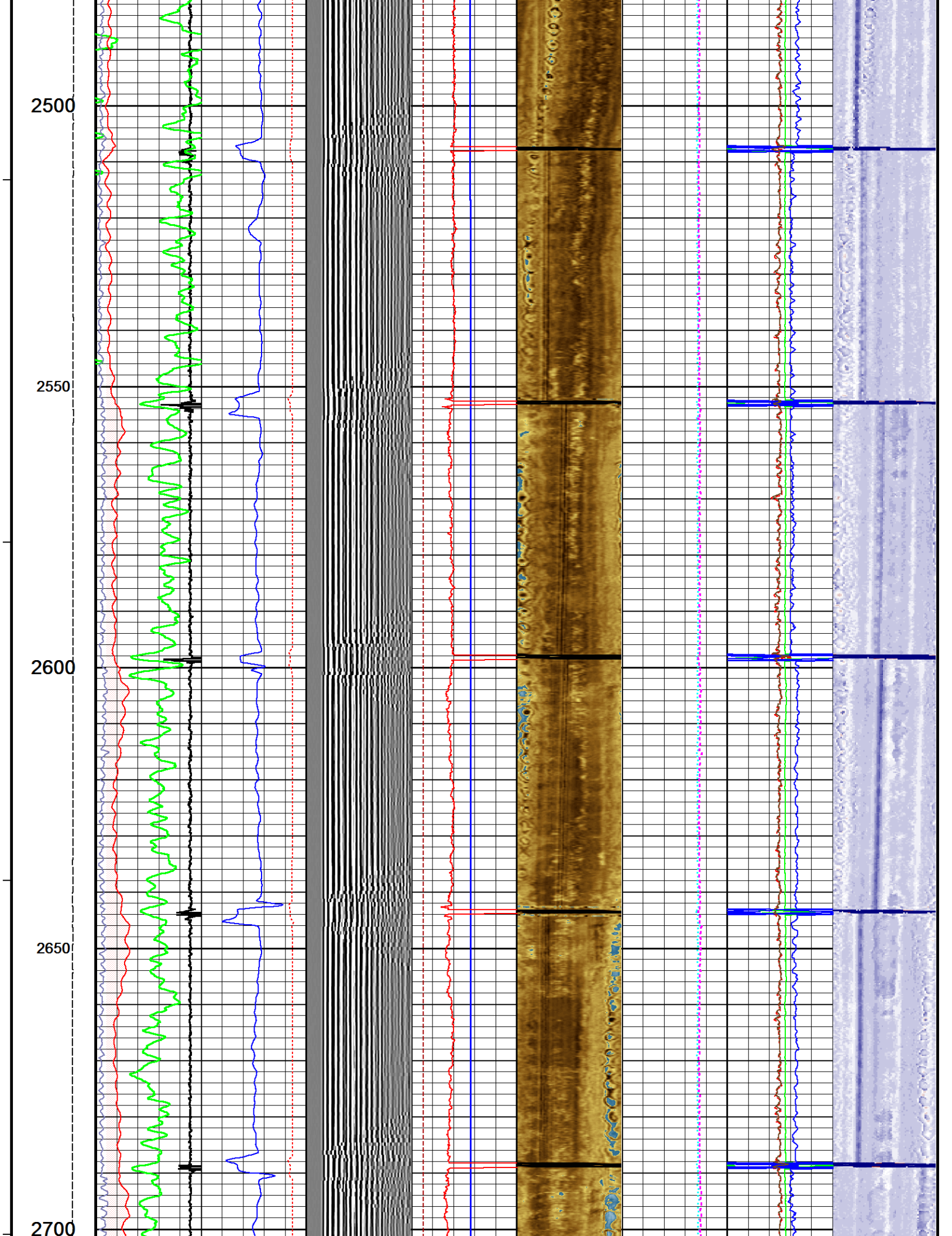


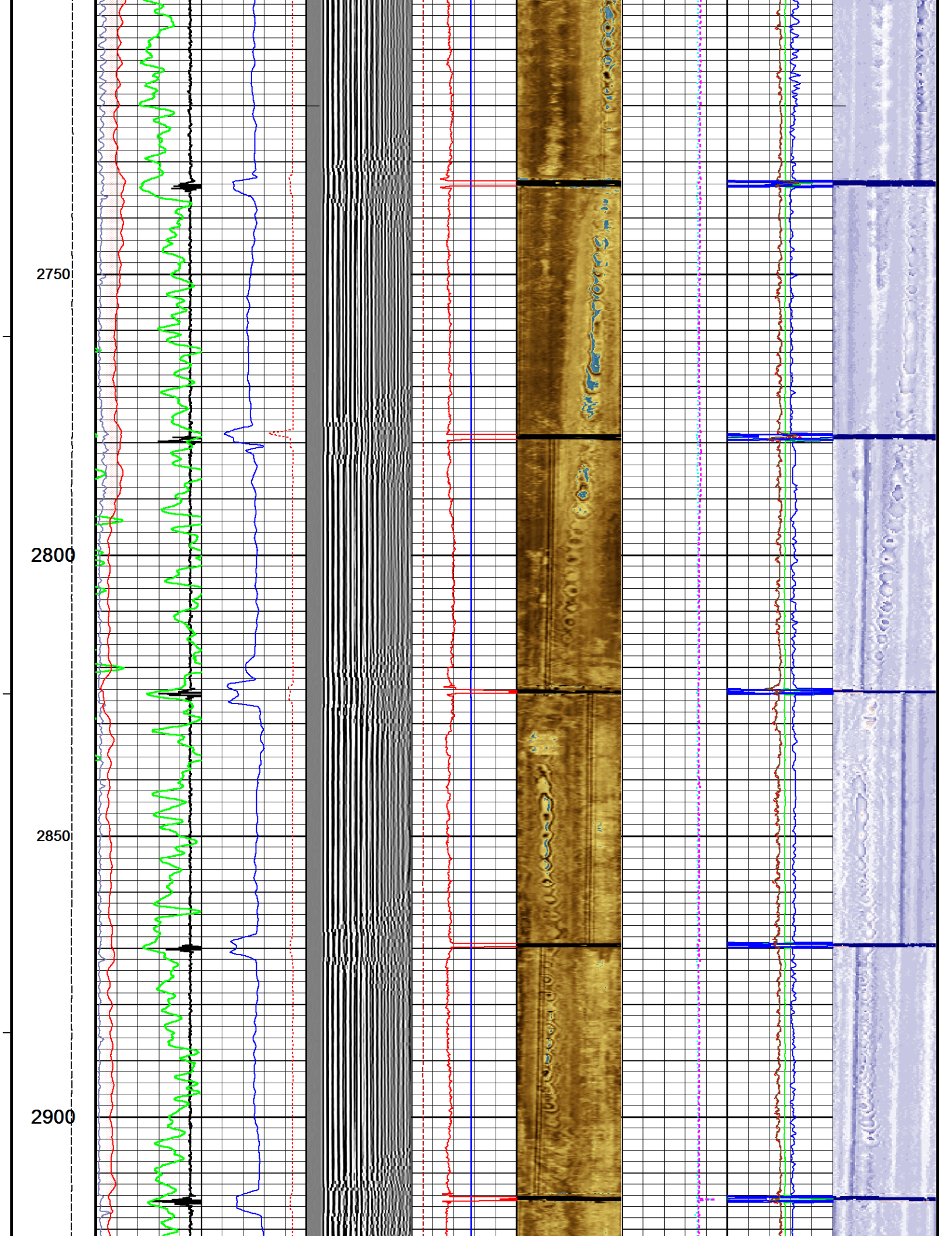


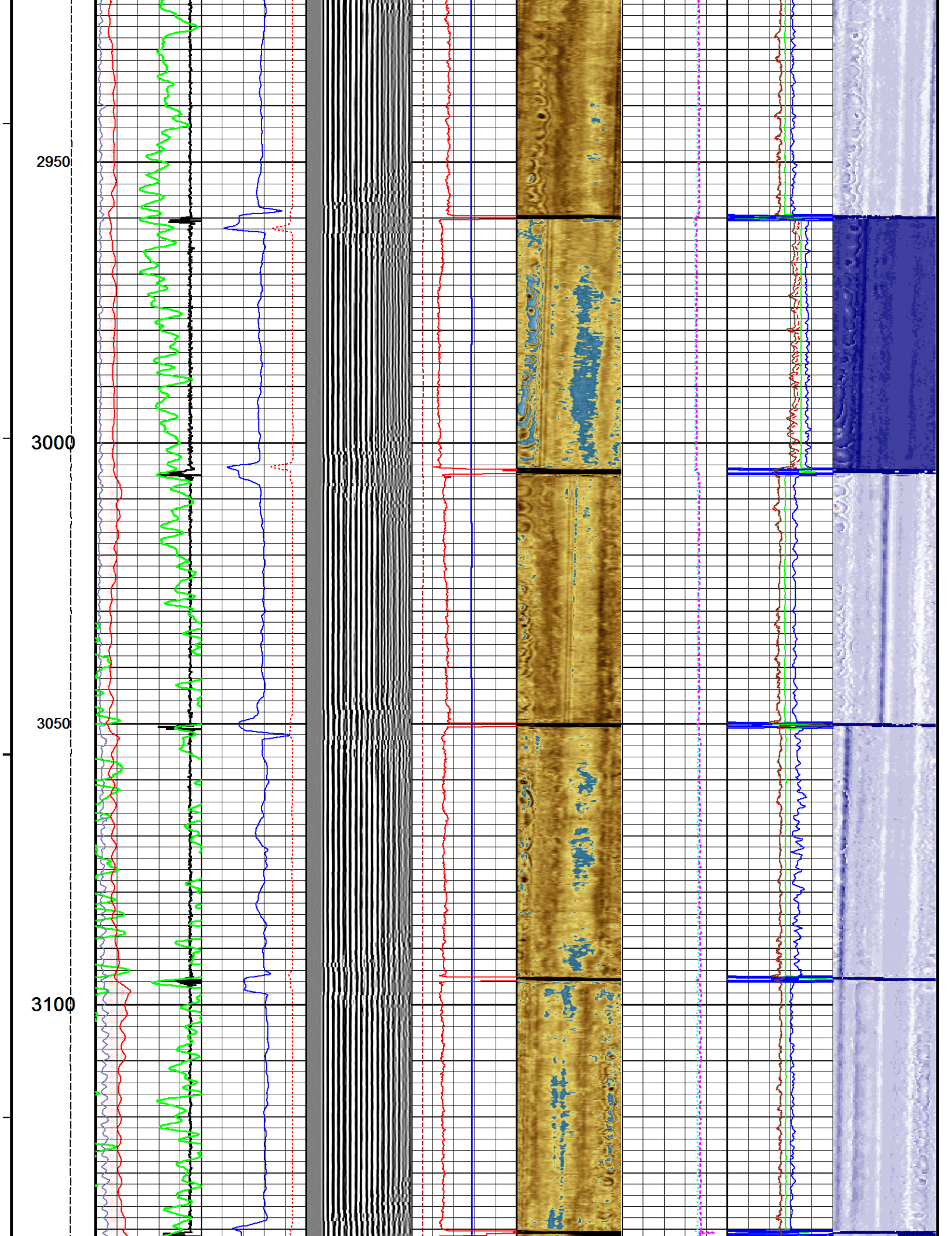


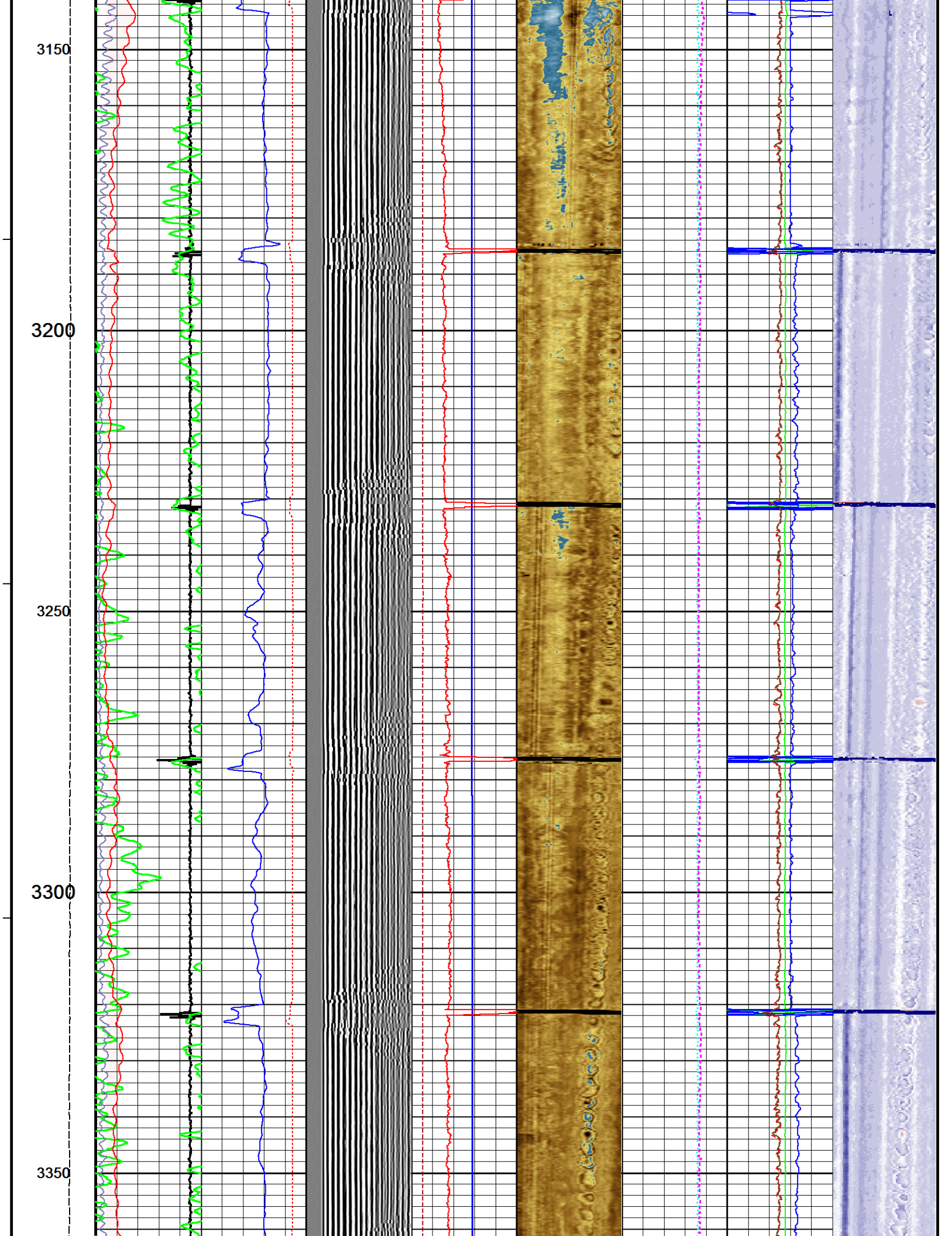


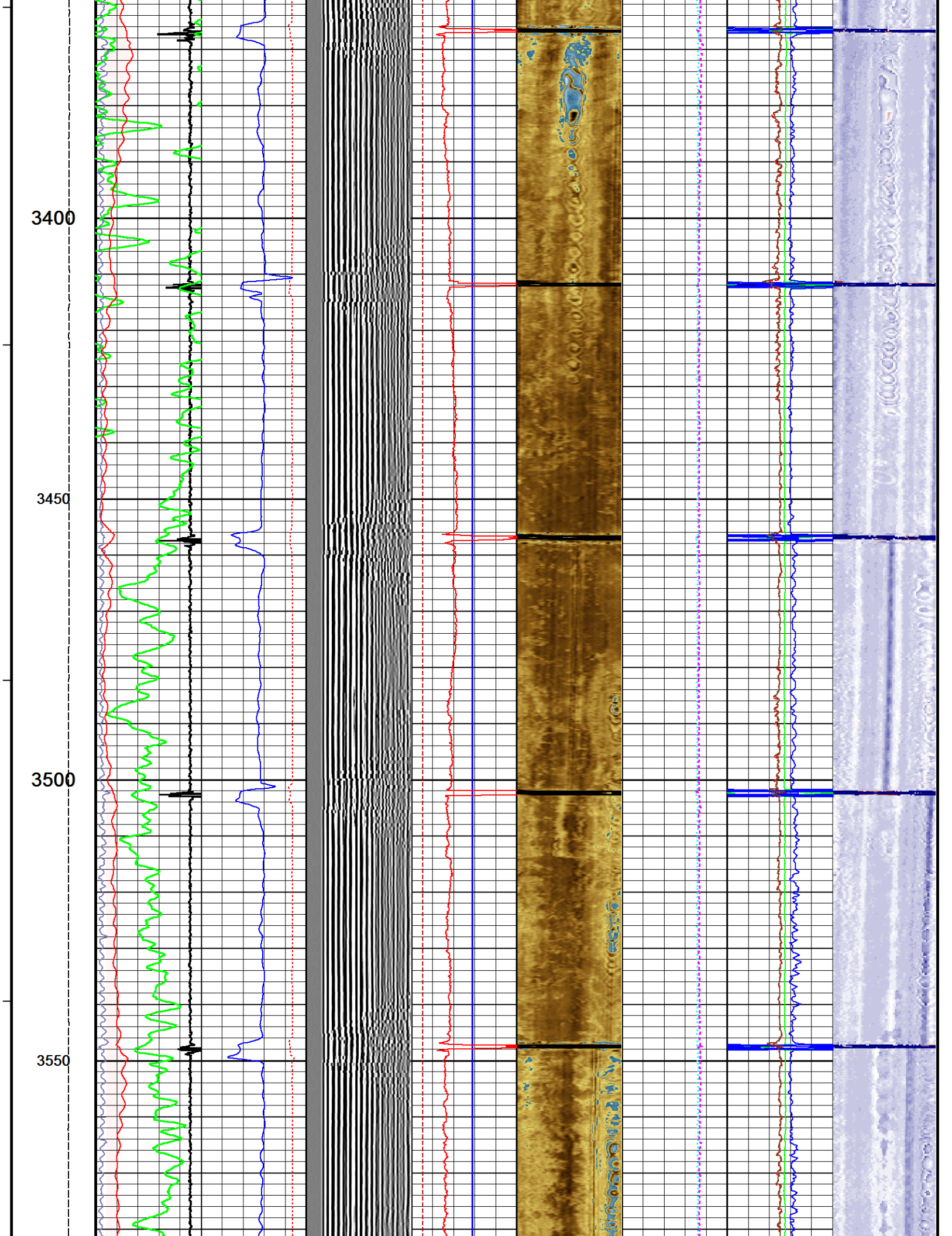


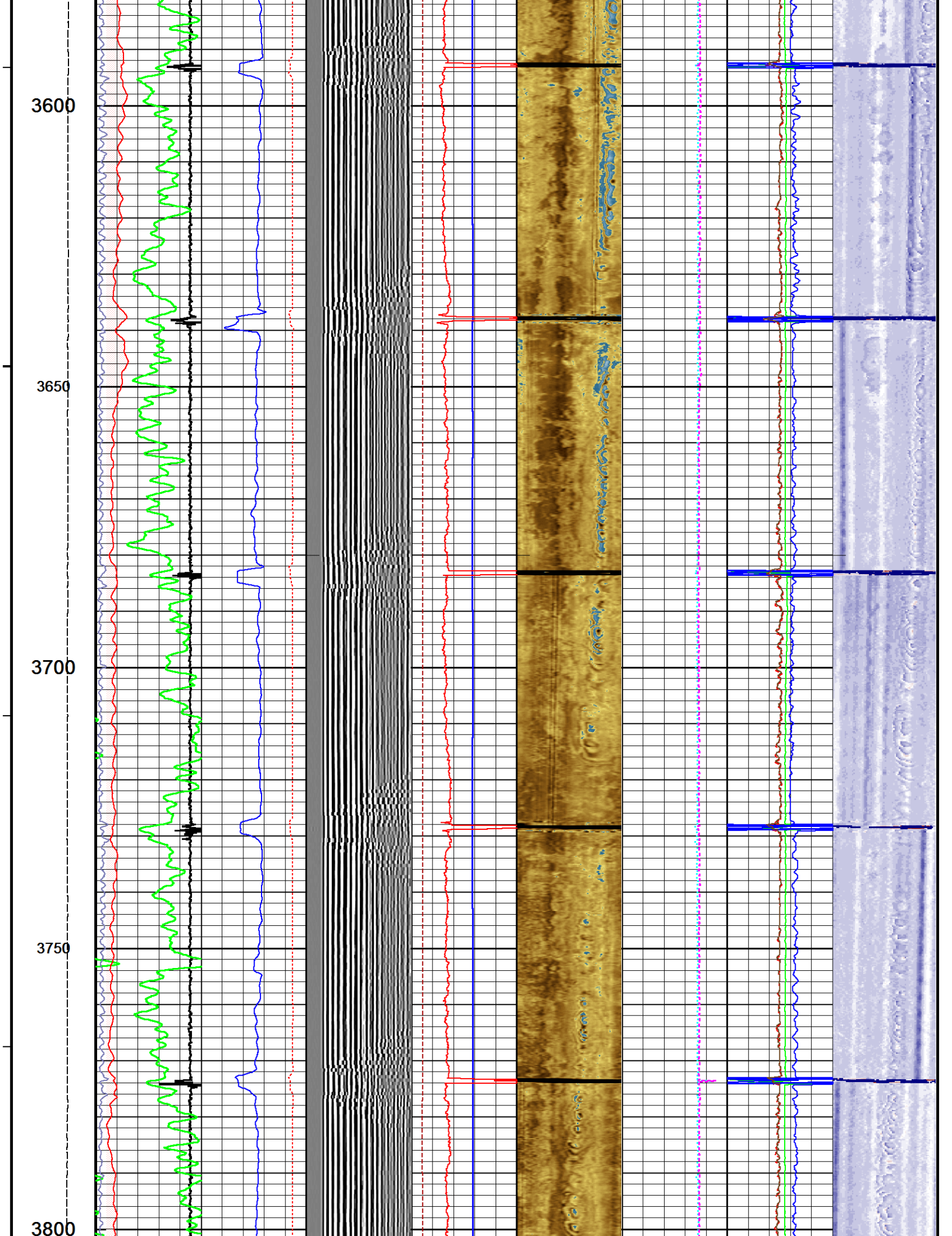


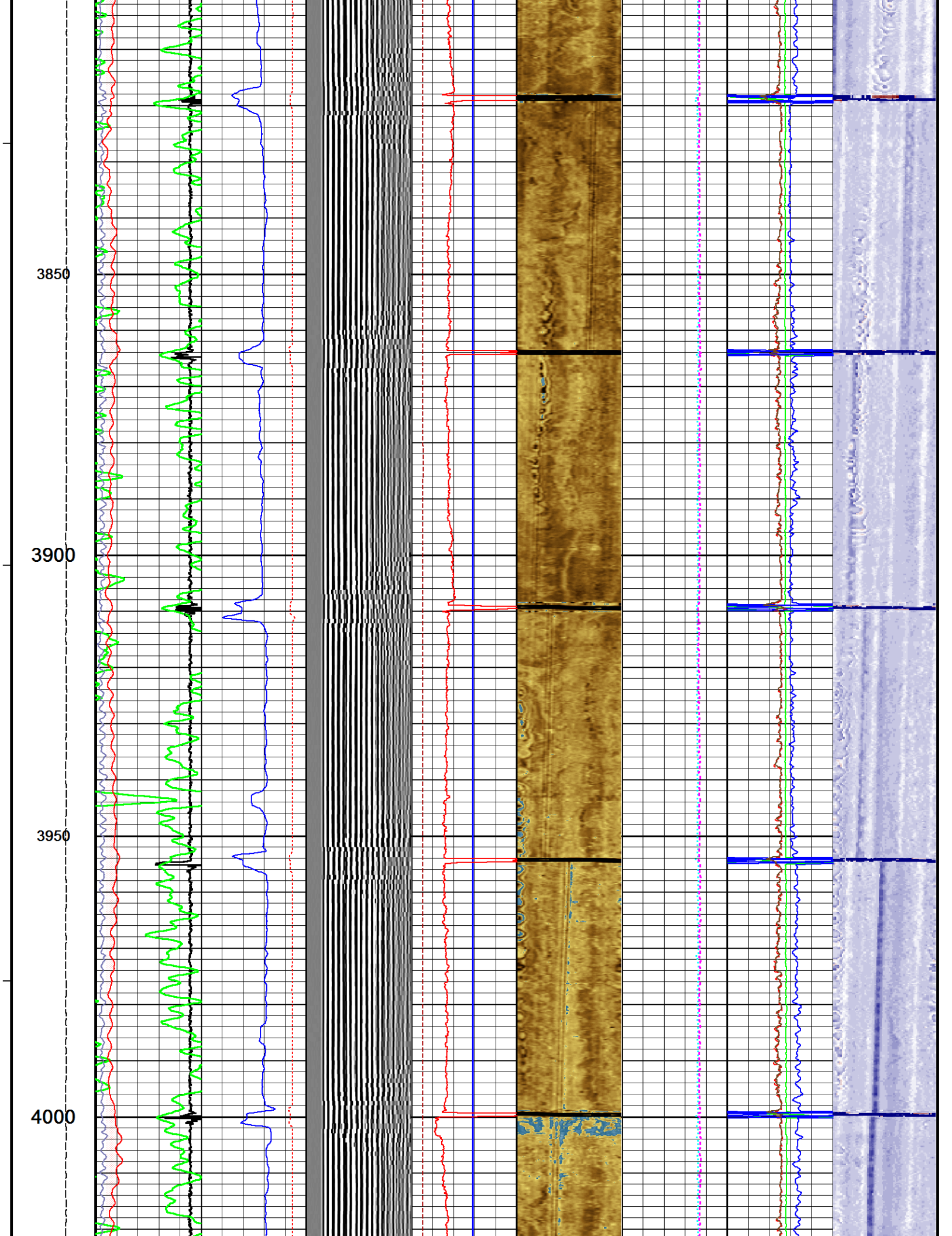


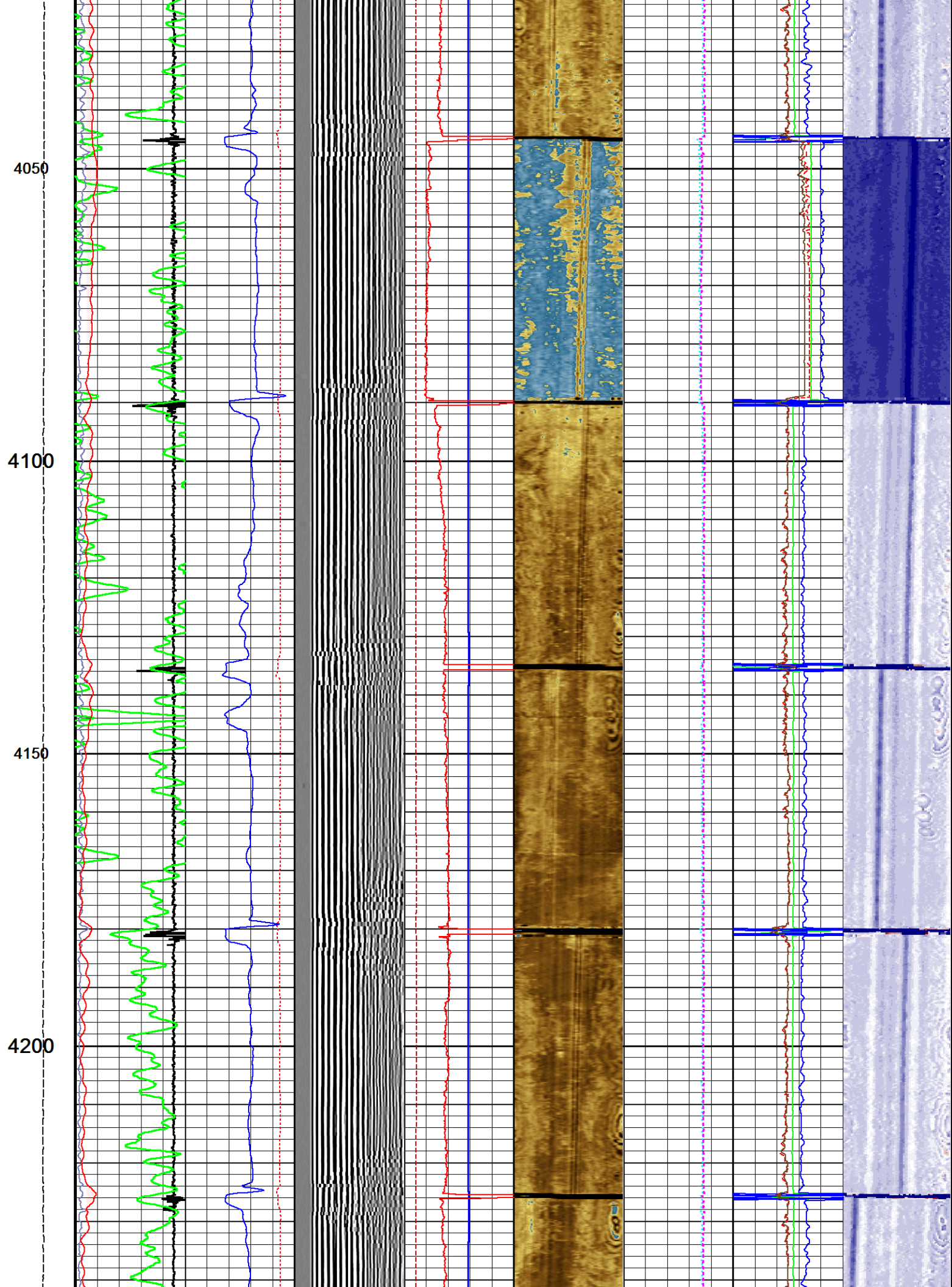


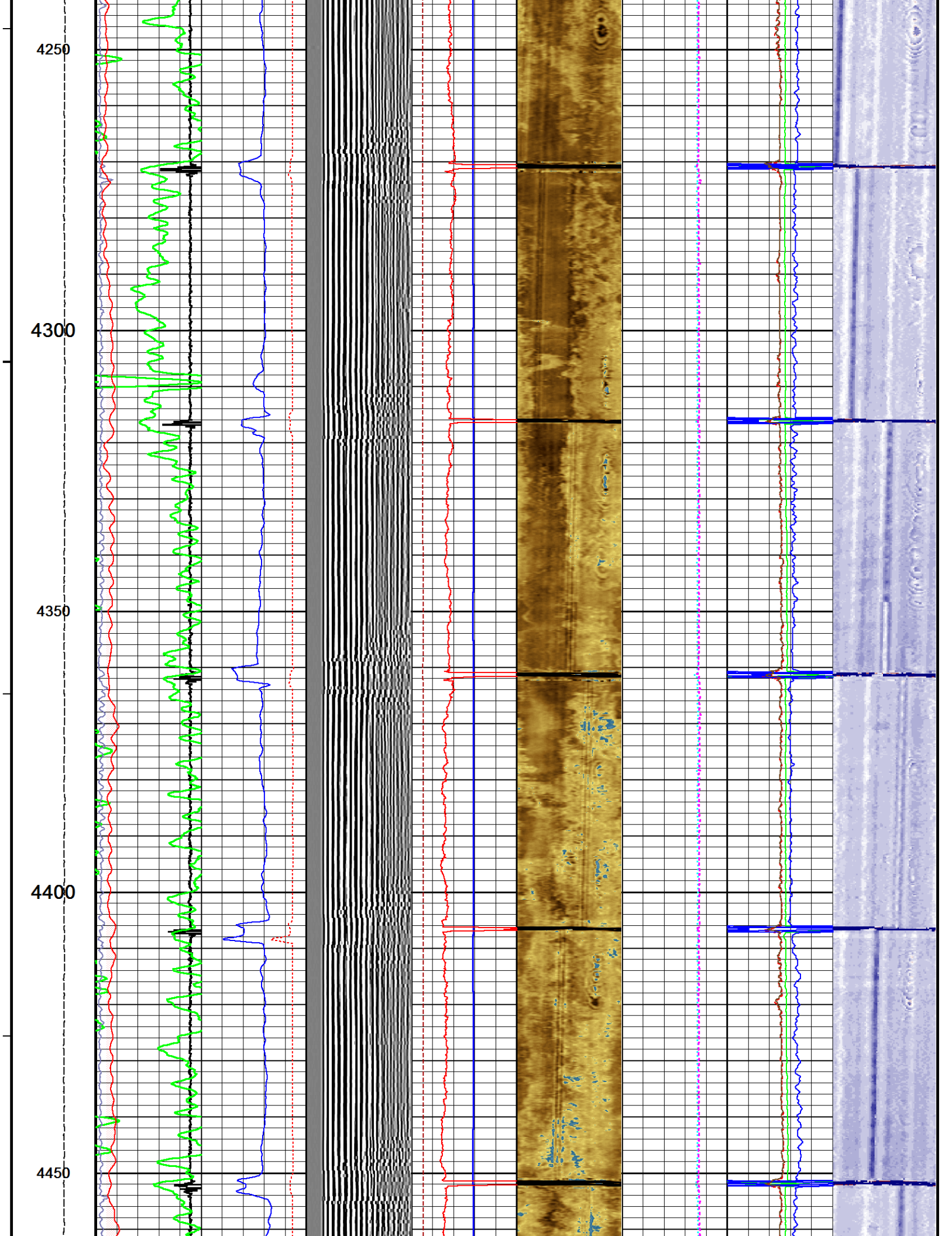


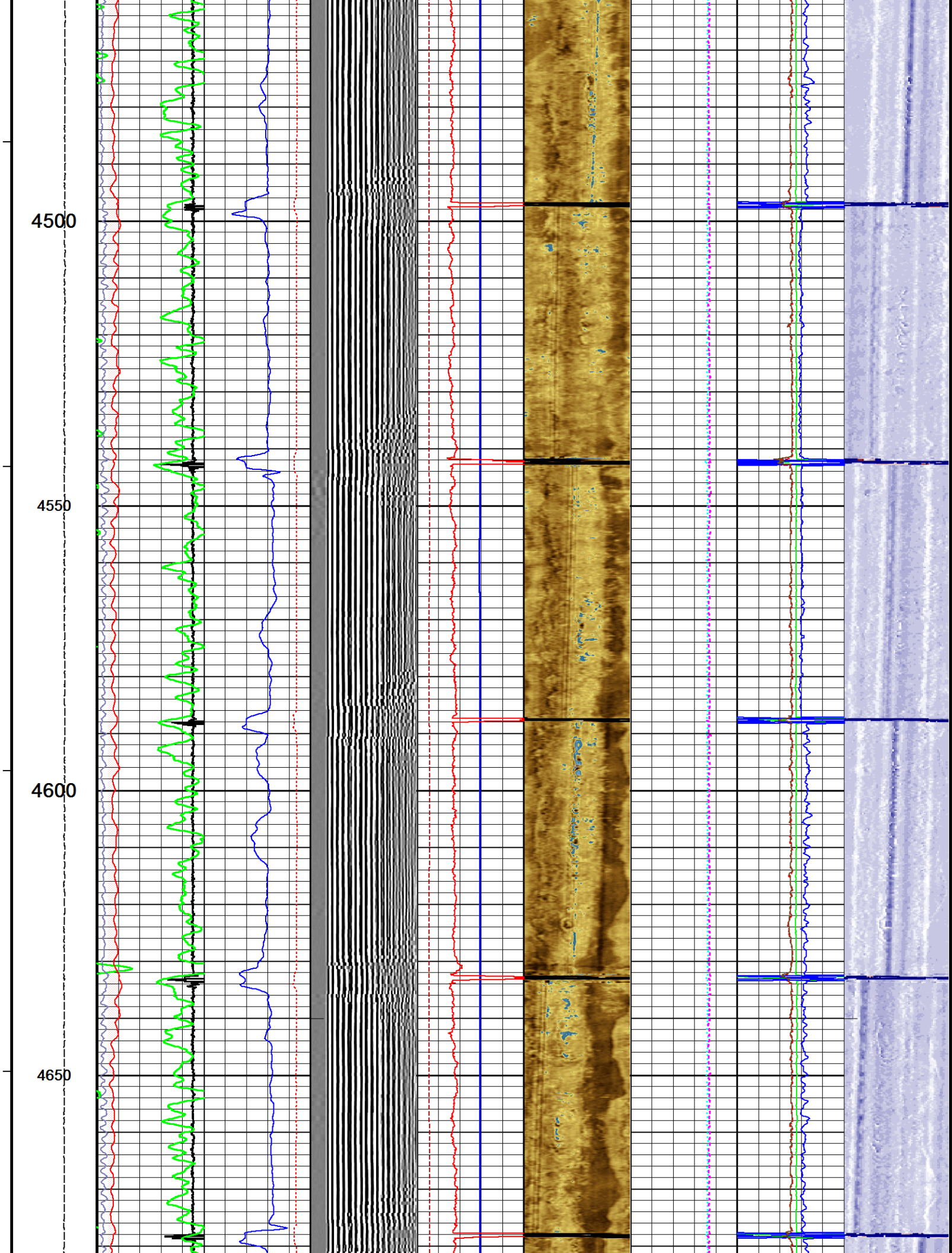


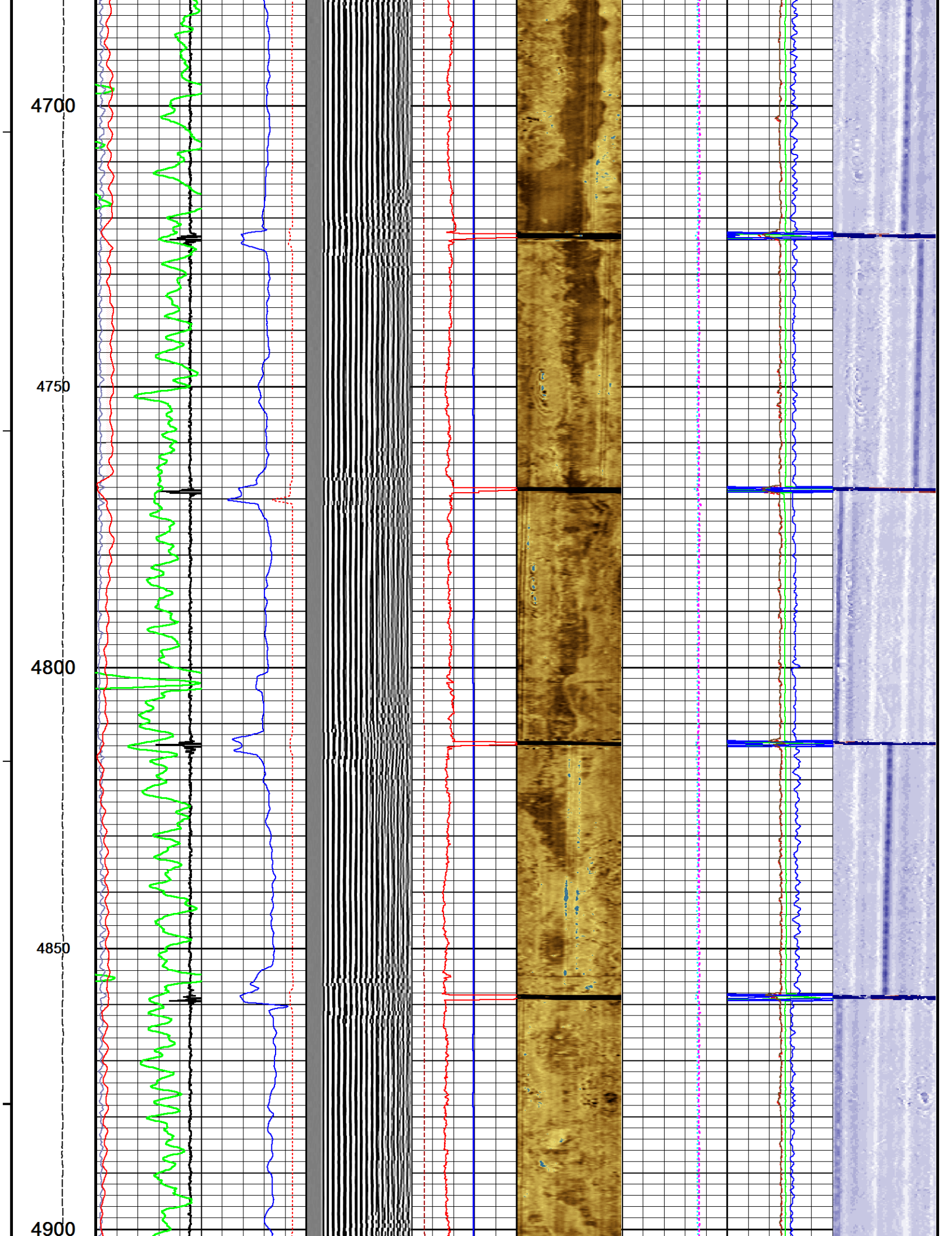


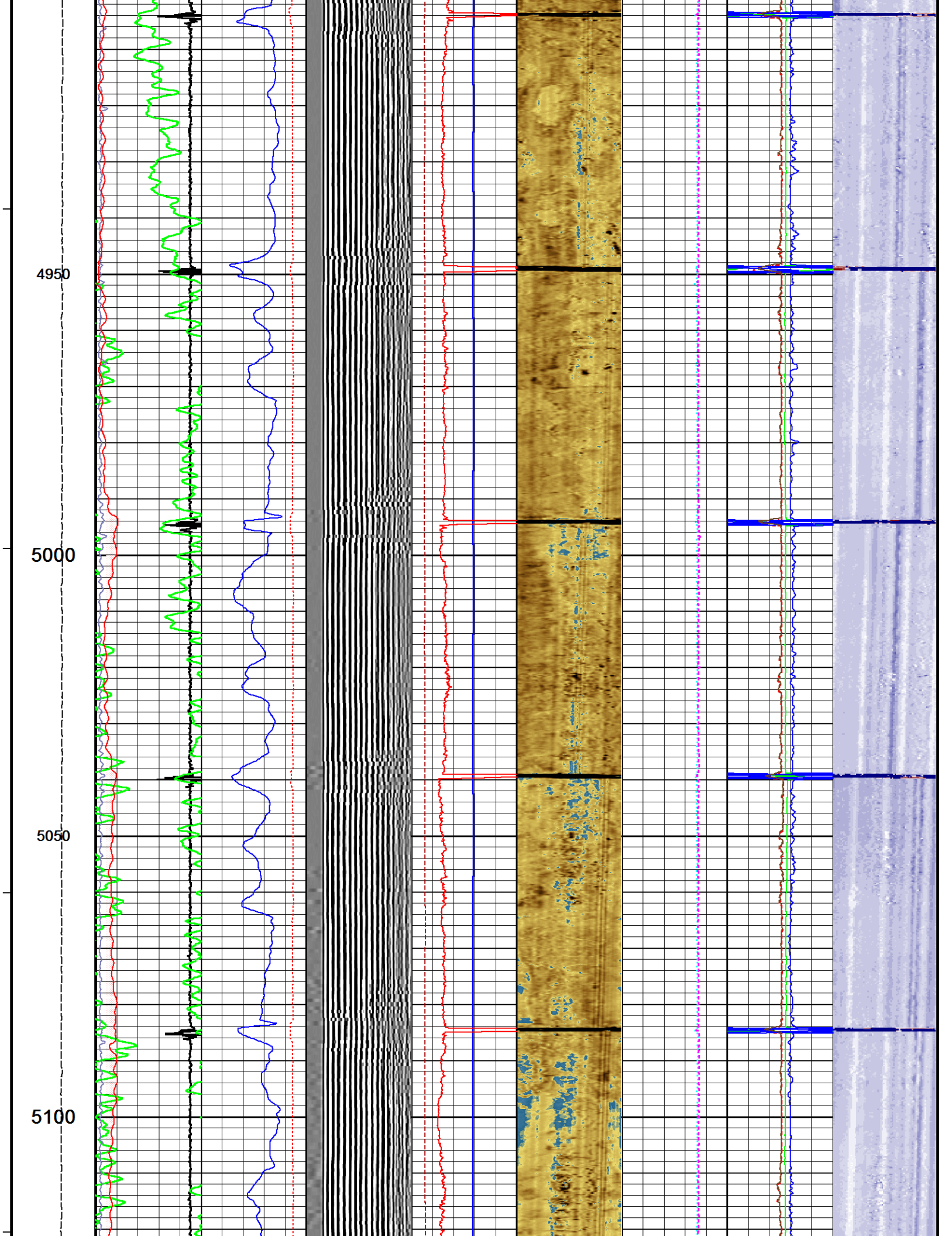


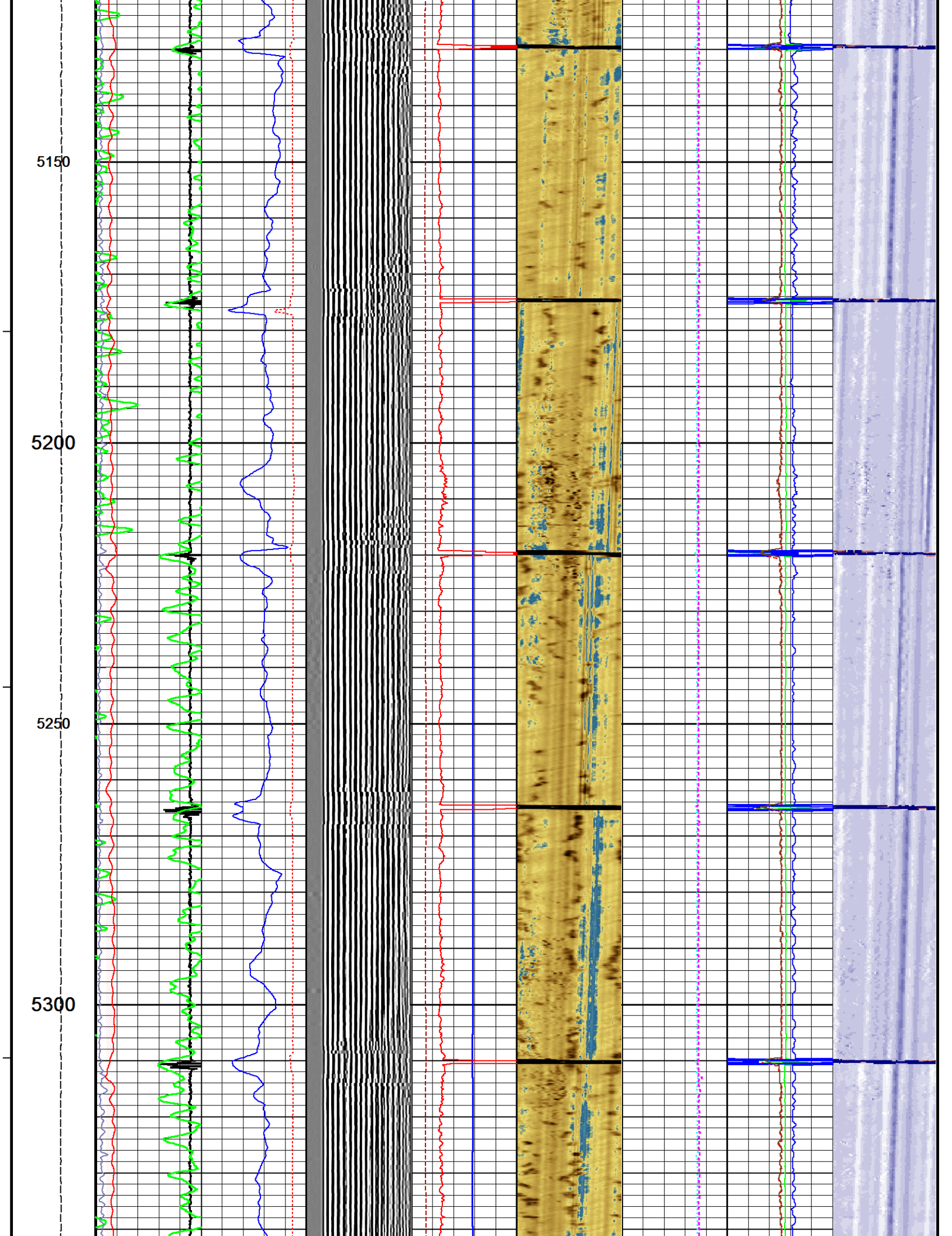


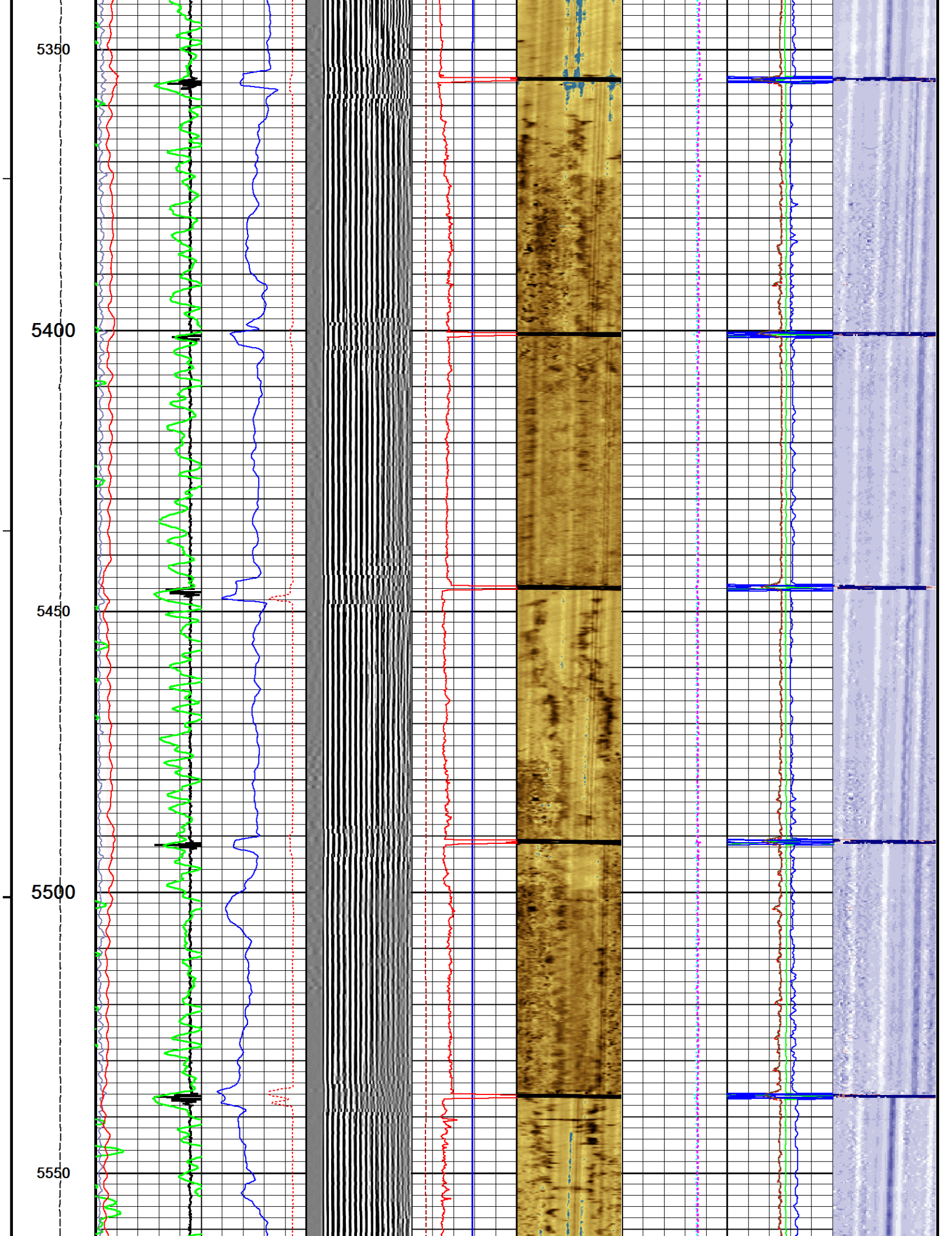










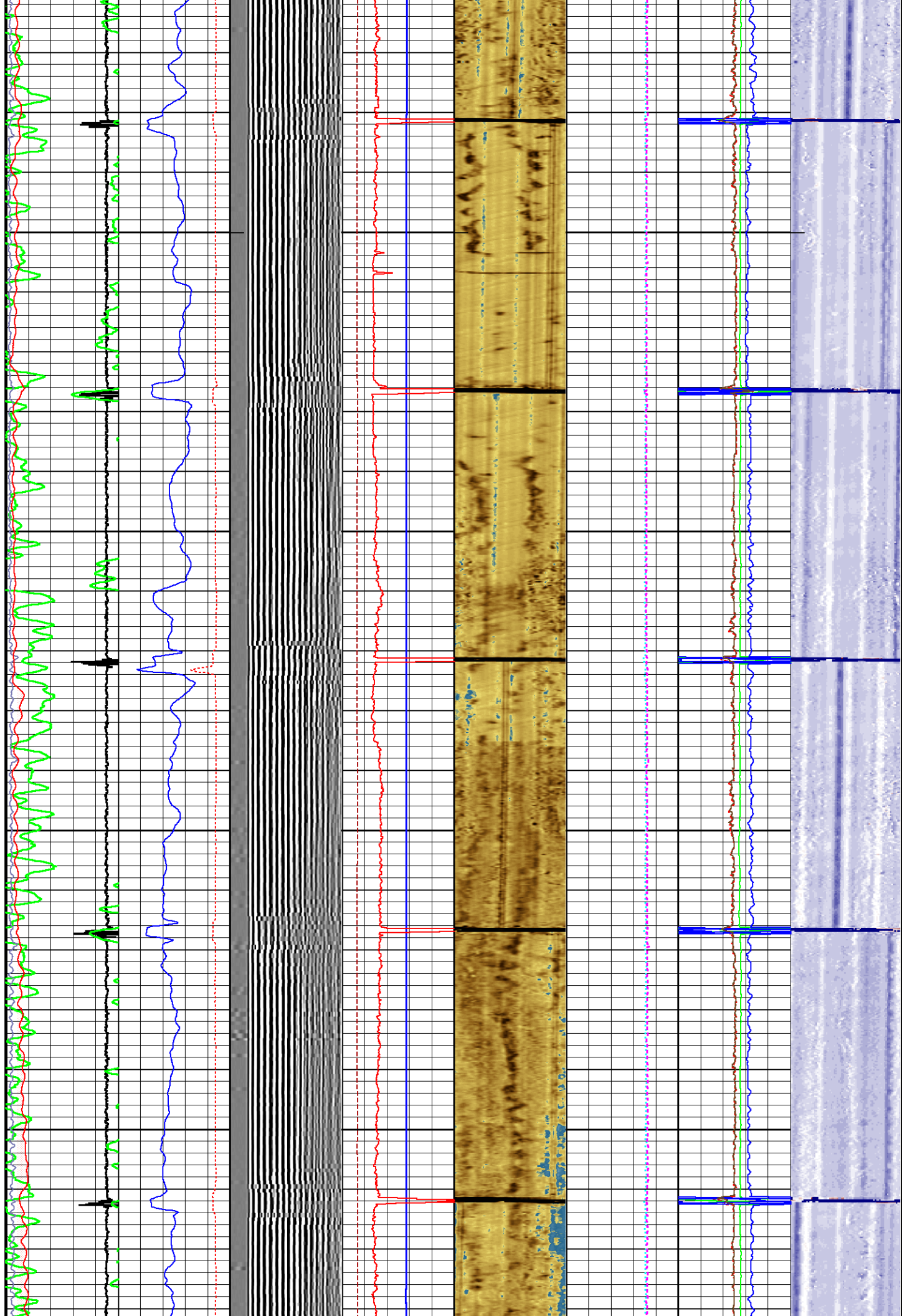


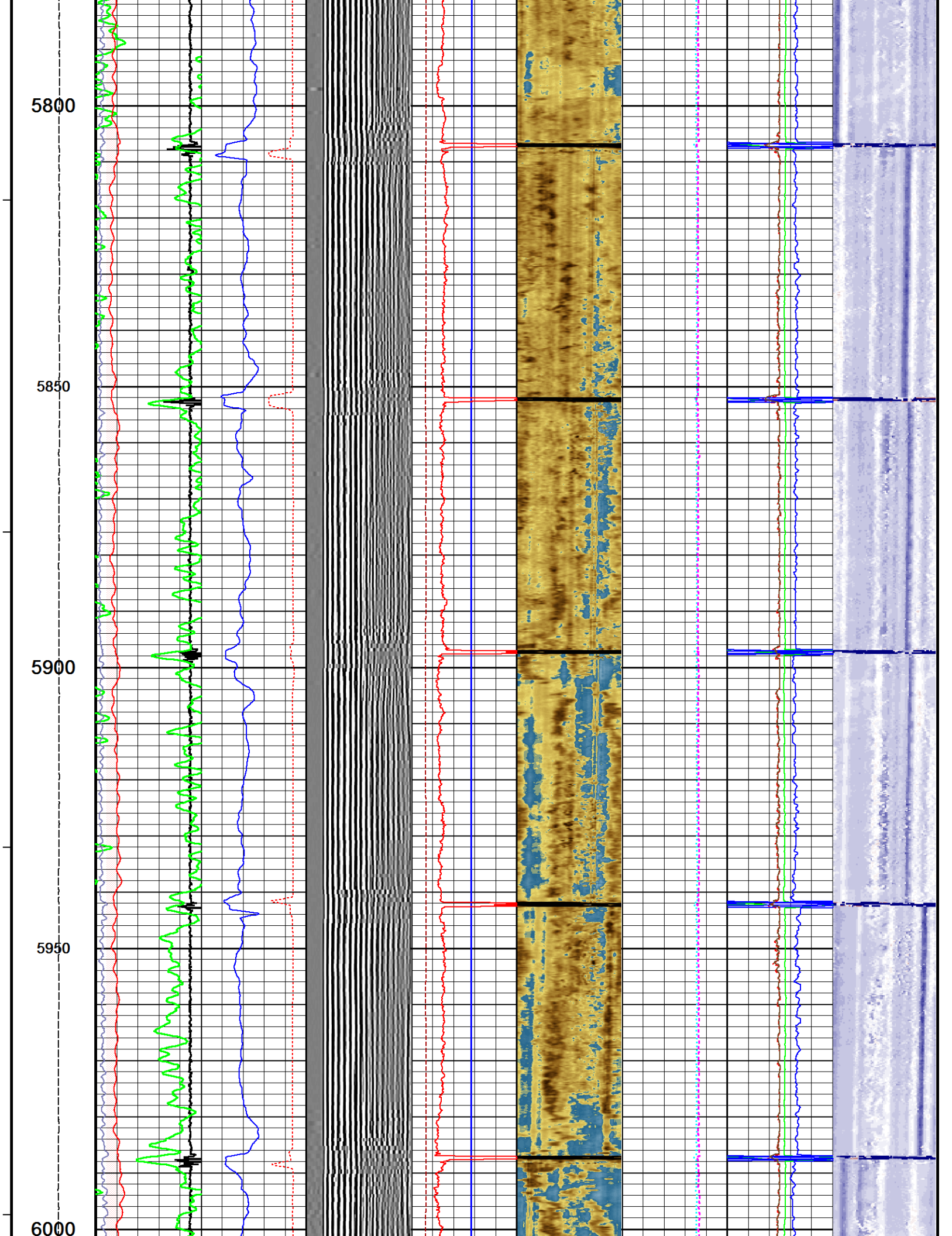
5600

5650

5700

5750





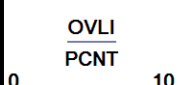
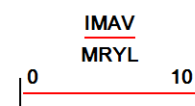
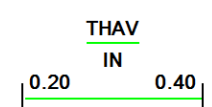
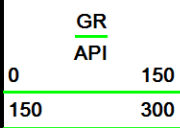
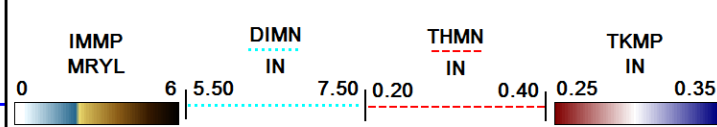
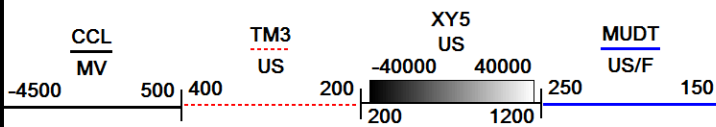
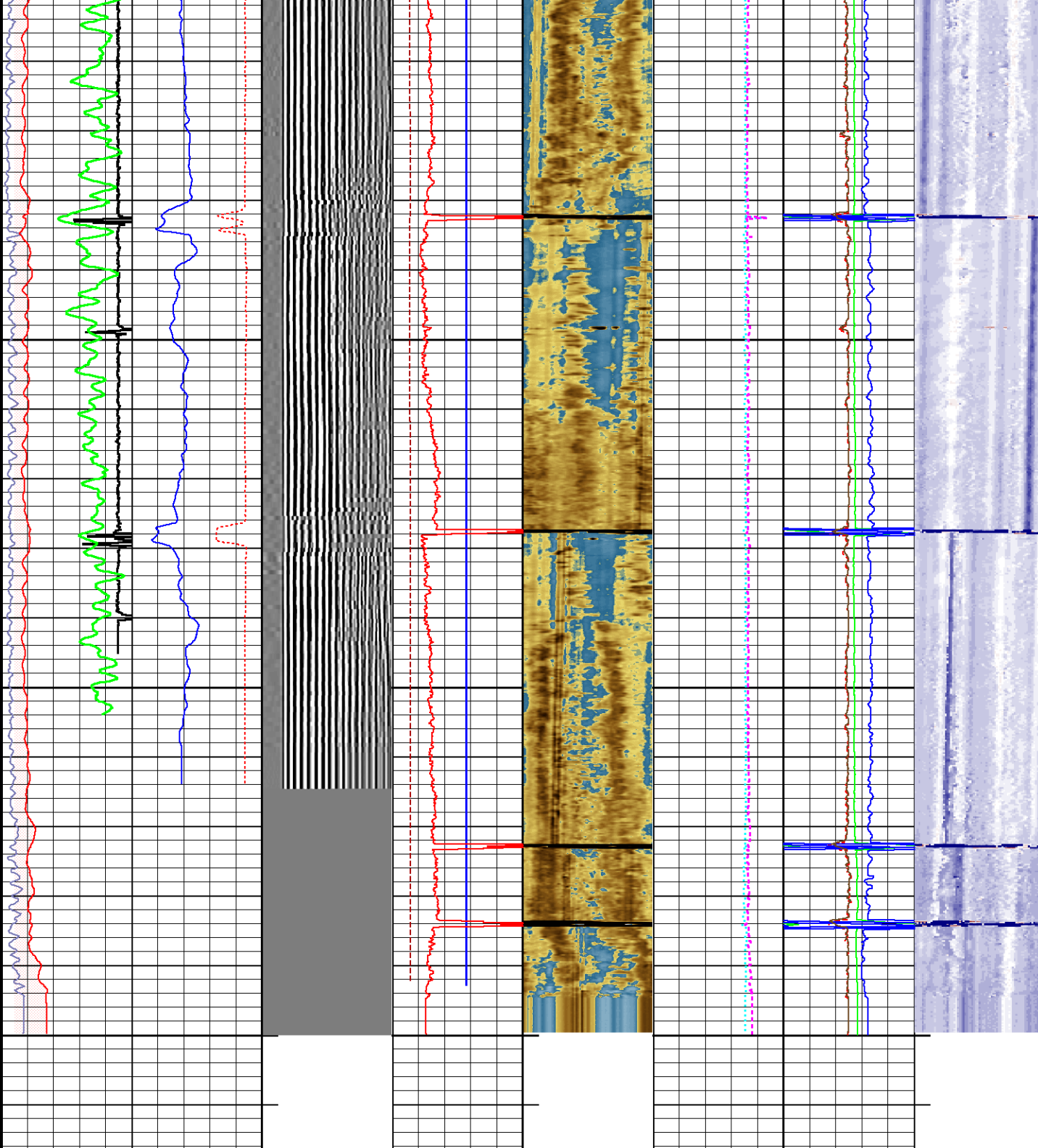
6050

6100

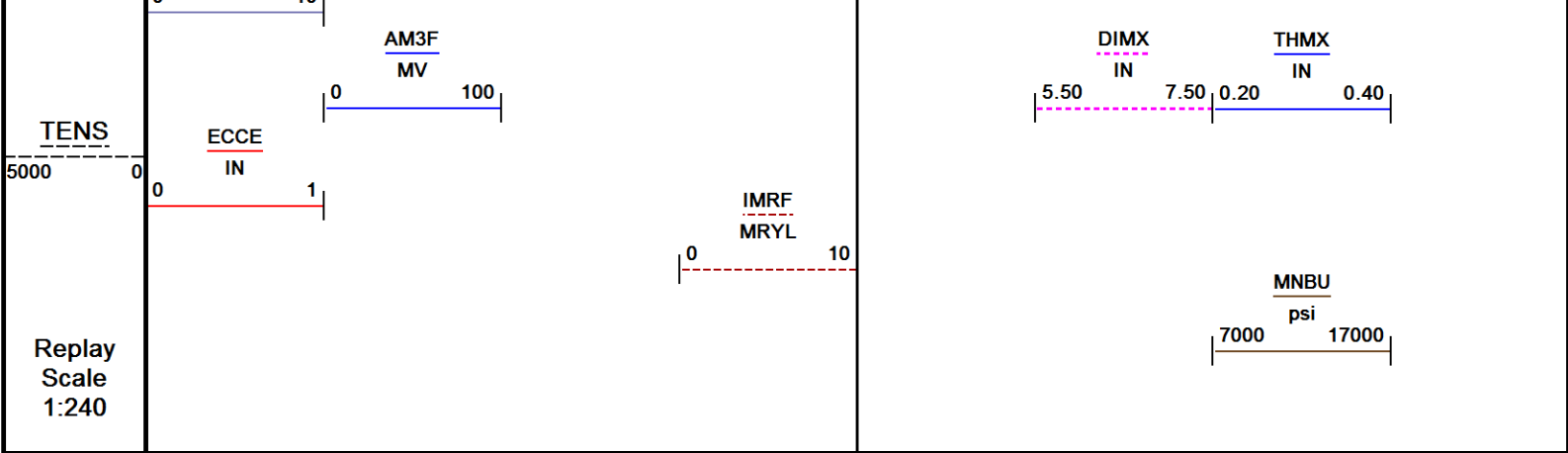
6150

6164

Depth
in
Feet



Timing
Marks
every
60.0 sec



MAIN LOG

REPEAT PASS

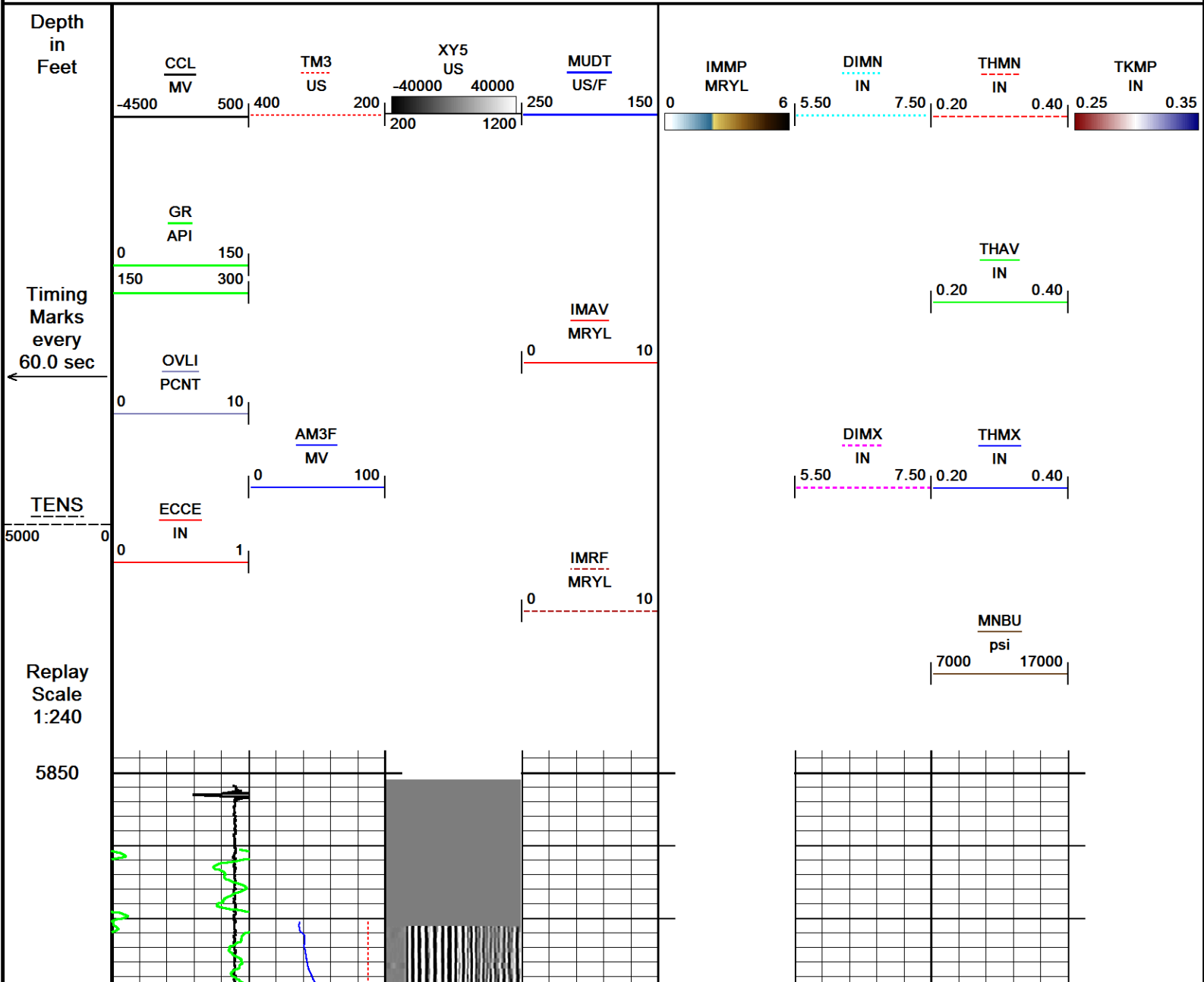
Depth Based Data - Maximum Sampling Increment 2.5cm

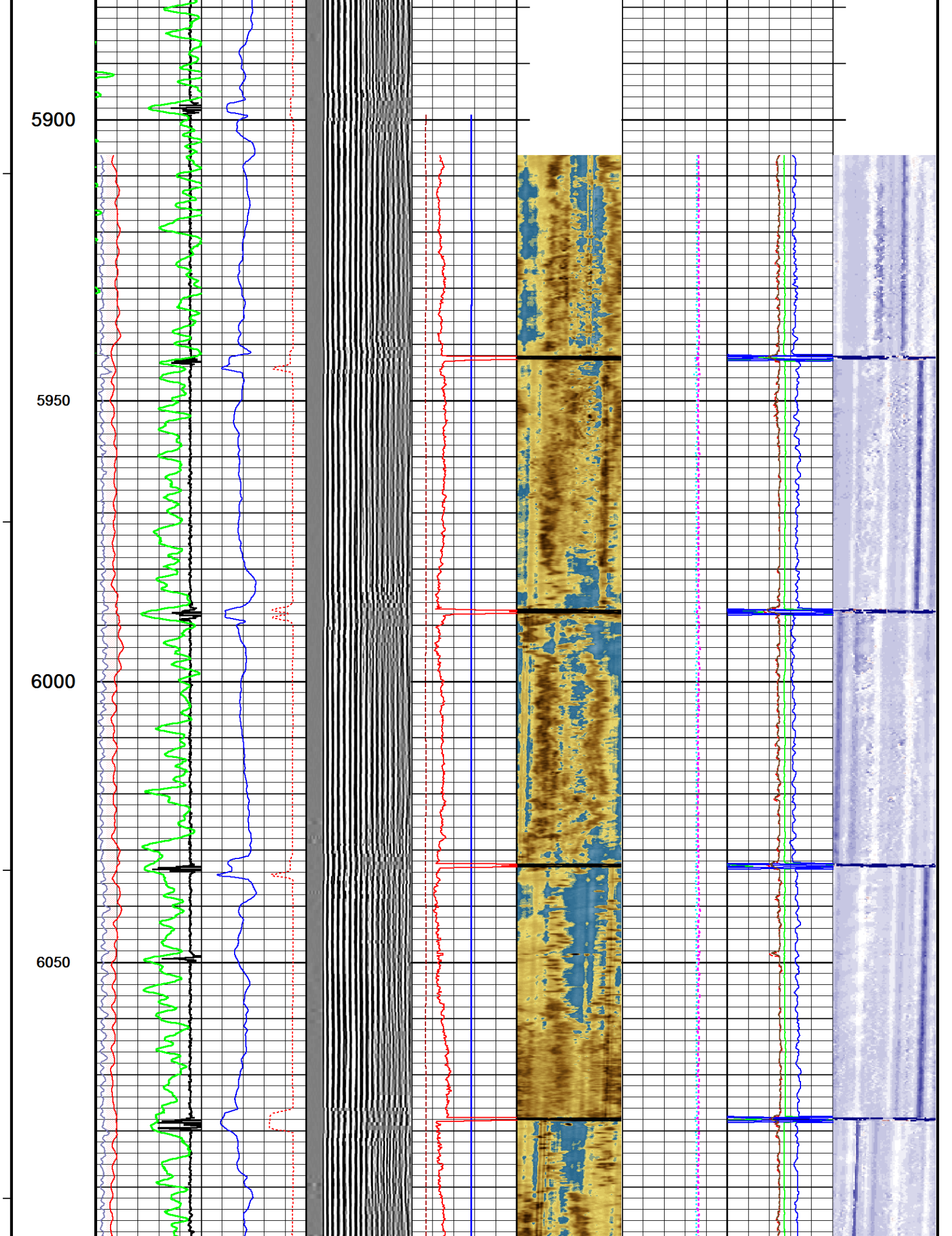
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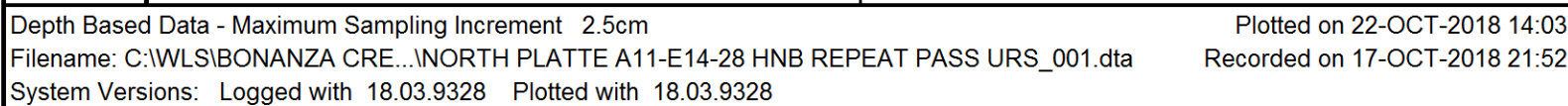
System Versions: Logged with 18.03.9328 Plotted with 18.03.9328


Plotted on 22-OCT-2018 14:03

Recorded on 17-OCT-2018 21:52







<p>Mono-Cablehead MCH-AA 0 LG: 1.03 ft WT: 2.2 lb OD: 1.457 in</p>	
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Crossover 1-pin to 55-pin for WCC-D
XOV-WC 125 LG: 1.05 ft WT: 15.4 lb OD: 3.386 in

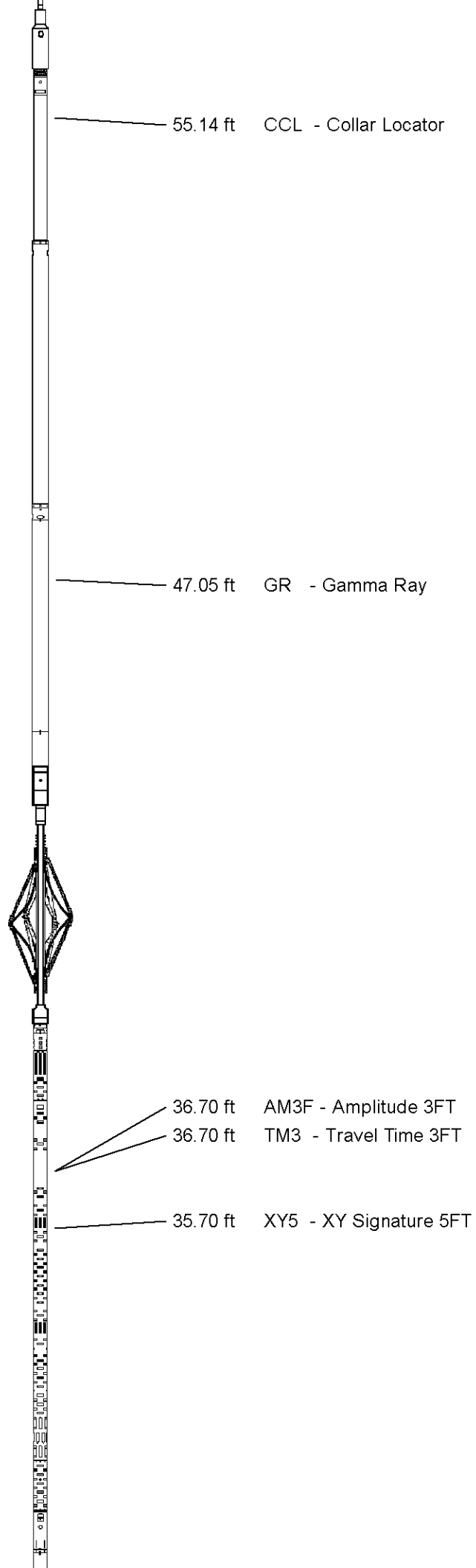
Casing Collar Locator, 55 pin
CCL-WA 198 LG: 3.01 ft WT: 19.8 lb OD: 2.756 in

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



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

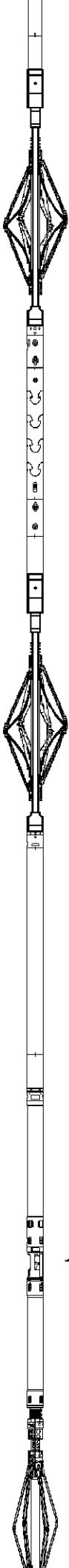
55 pin Roller Centralizer
CEN-XA 213 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

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



7.65 ft IMRF - Mud Impedance
7.65 ft MUDT - Mud Slowness

0.37 ft ECCE - Eccentering
0.37 ft OVLI - ID Ovality
0.37 ft DIMX - Max Diameter
0.37 ft DIMN - Min Diameter
0.37 ft THAV - Avg Thickness



All measurements relative to tool zero.

SHOP AND FIELD CALIBRATIONS

C:\WLS\BONANZA CREEK\NORTH PLATTE A11-E14-28 HNB\NORTH PLATTE A11-E14-28 HNB MAIN LOG URS_001.dta

UGR Field Survey Cal UGR-JD 135

Field calibration on 00-JAN-1988 00:00

Gamma Ray Field Survey Calibration

Tool Type: UGR-JD
 Calibrator No:

Serial No: 135

Background	Calibrator	Standard	Units
0.0	140.0	140.0	CPS

Delta Counts Per Sec: 140.0

CPS/API = 1.000

CBT Field Calibration CBT-AA 115

Field calibration on 17-OCT-2018 12:58

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	1.29
	Free Pipe	72.00	590.00
AMP 5 FT	100 % Bond	0.90	2.29
	Free Pipe	48.00	700.00

CBT Constants CBT-AA 115

Last Edited on 17-OCT-2018 15:26

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 17-OCT-2018 15:26

*** 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	3.20

** 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

WELL	NORTH PLATTE A11-E14-28 HNB				
FIELD	WATTENBERG				
PROVINCE/COUNTY	WELD				
COUNTRY/STATE	US / COLORADO				
Elevation Kelly Bushing	4570	feet	Bottom Log Interval	6145.00	feet
Elevation Drill Floor	4570	feet	Depth Driller	11737.00	feet
Elevation Ground Level	4553	feet	Depth Logger	6145.00	feet
<div><div>SECUREVIEW ULTRAVIEW / BONDVIEW LOG</div></div>					