				<div>SECUREVIEW</div> <div>ULTRAVIEW / BONDVIEW</div> <div>LOG</div>			
COMPANY				BONANZA CREEK ENERGY			
WELL				STATE NORTH PLATTE J24-F21-26HNC			
FIELD				WATTENBERG			
PROVINCE/COUNTY				WELD			
COUNTRY/STATE				COLORADO			
LOCATION				1428' FSL & 1614' FWL			
SEC 26	TWP 5N	RGE 63W	Other Services				
Latitude		Longitude		CALVIEW			
API Number		05-123-46469					
Permanent Datum GL, Elevation 4557 feet				Elevations:			
Log Measured From KB, 17.00 feet above Permanent Datum				KB			
Drilling Measured From KB				DF			
				GL			
				4574.00			
				4574.00			
				4557.00			
Date				28-JUN-2018		PERFORATION RECORD	
Run Number		ONE		Shot	Number	Depth From	Depth To
Service Order		7145-217383773		Density	of Shots	feet	feet
Type Log		Type Log					
Depth Driller		11337.00					
Depth Logger		5875.00					
Top Log Interval		0.00					
Bottom Log Interval		5875.00					
Hole Fluid Type		WATER					
Hole Fluid Level		56.00					
Restriction ID		4.892					
Max Recorded Temp		187.00					
Well Head Pressure		0.00					
Well Head Equipment							
Time Well Ready		ROA		Size	Weight	Depth From	Depth To
Time Logger Bottom		1015		inches	pounds/ft	feet	feet
Unit		14122					
Equipment Name		WSS-E					
Base		CASPER					
Recorded By		AARON LITTLE					
Witnessed By		K DODGE					

CASING / TUBING RECORD						
Type	Grade	TypeJoint	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	J-55		9.625	0.00	1626.00	36.00
PRODUCTION	P-110		5.500	0.00	11362.00	17.00

REMARKS
SECUREVIEW ULTRAVIEW BONDVIEW LOG CORRELATED TO RIG KB AT 17' ABOVE GROUND LEVEL
100% FREEPIPE AMPLITUDE IN 5.5' 17# CASING IS 72 mV
SEVERAL SECTIONS OF THE LOG EXPERIENCED DECENTRALIZATION AND CALVIEW LOG WILL BE PERFORMED OVER THOSE SECTIONS TO ENSURE THAT THE CASING SHOWS NO DAMAGE

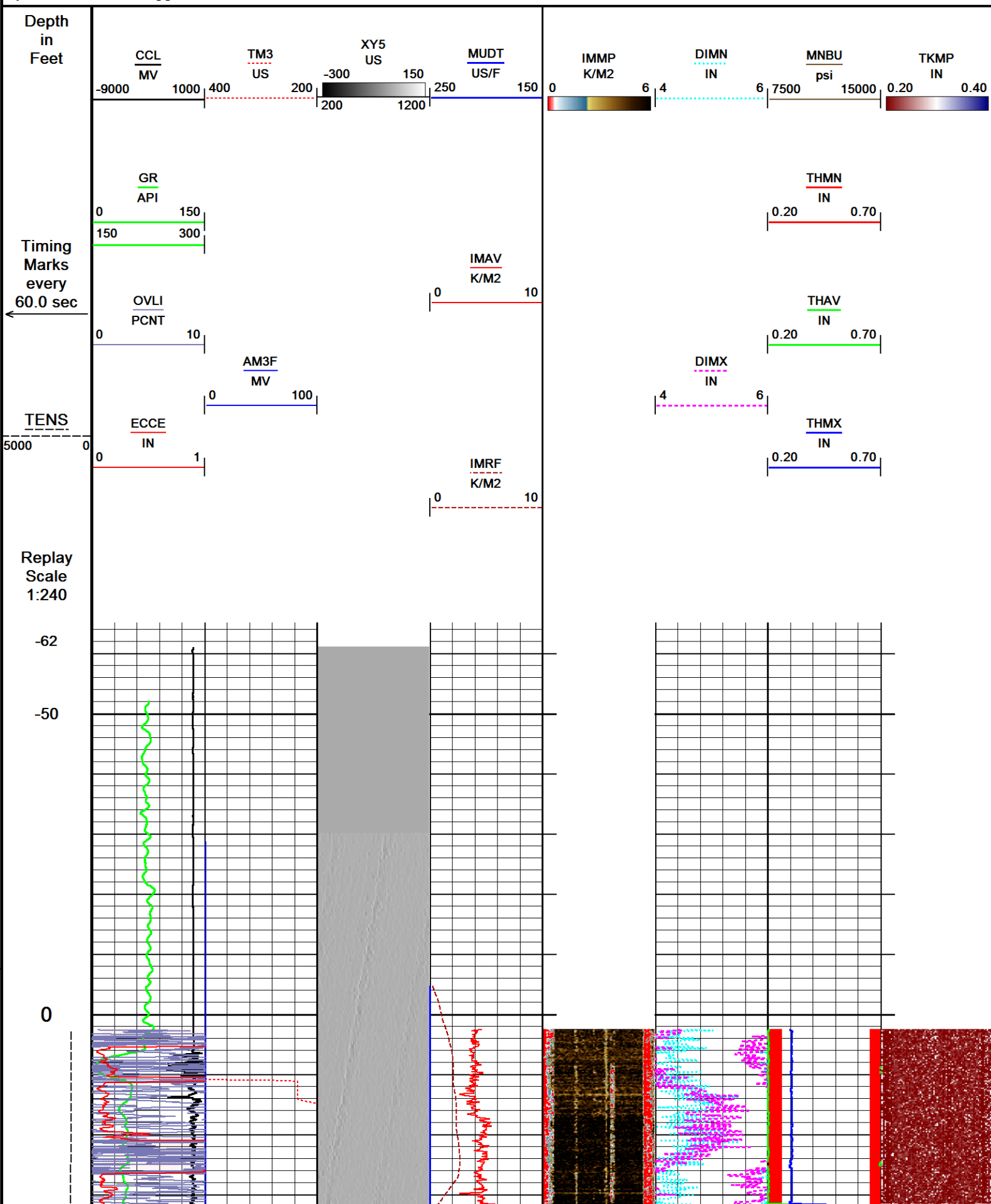
<p>In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will 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.</p>
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Plotted on 28-JUN-2018 14:15

Recorded on 28-JUN-2018 12:54

System Versions: Logged with 18.01.5248    Processed with 18.01.5248    Plotted with 18.01.5248



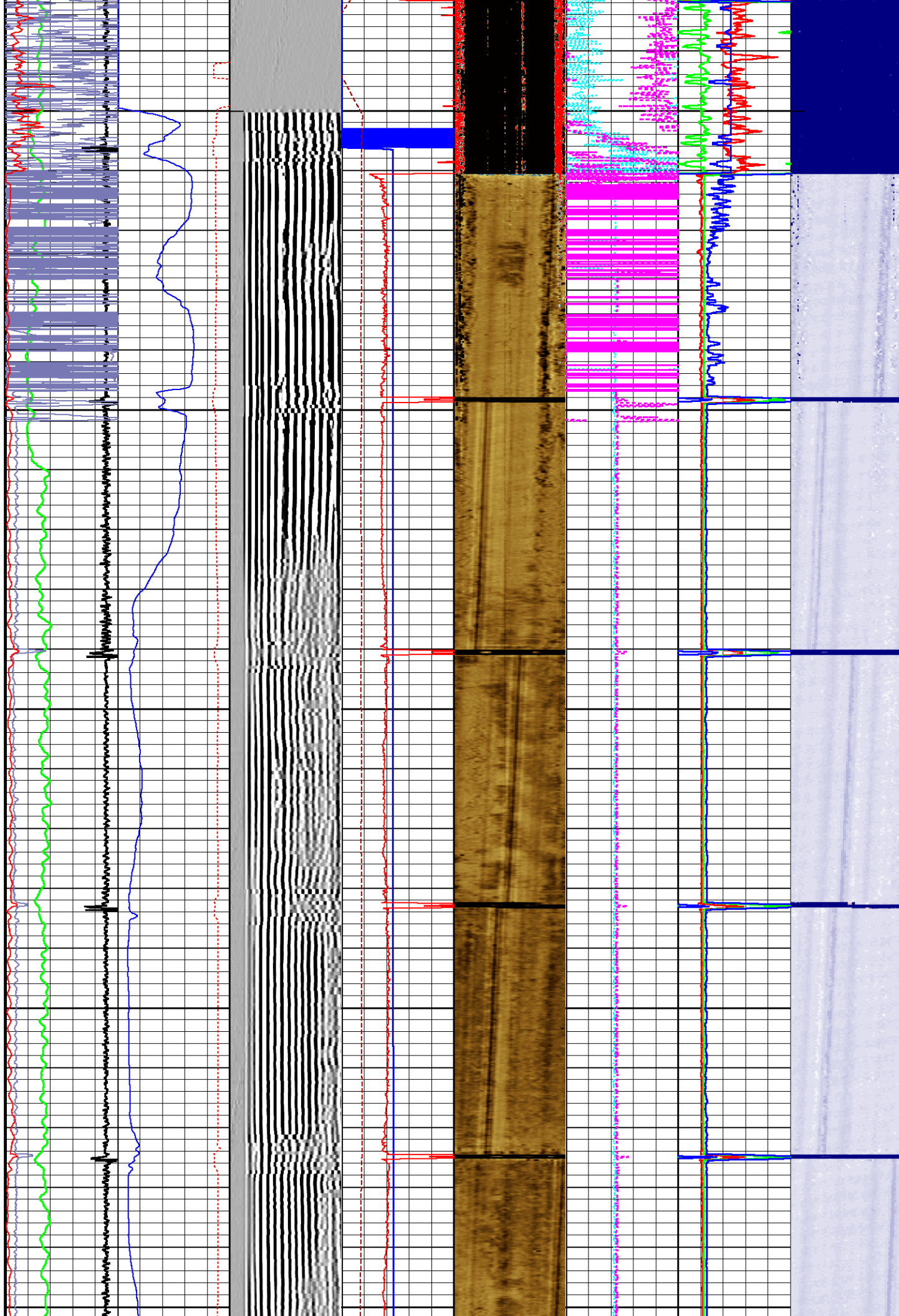
50

100

150

200

250



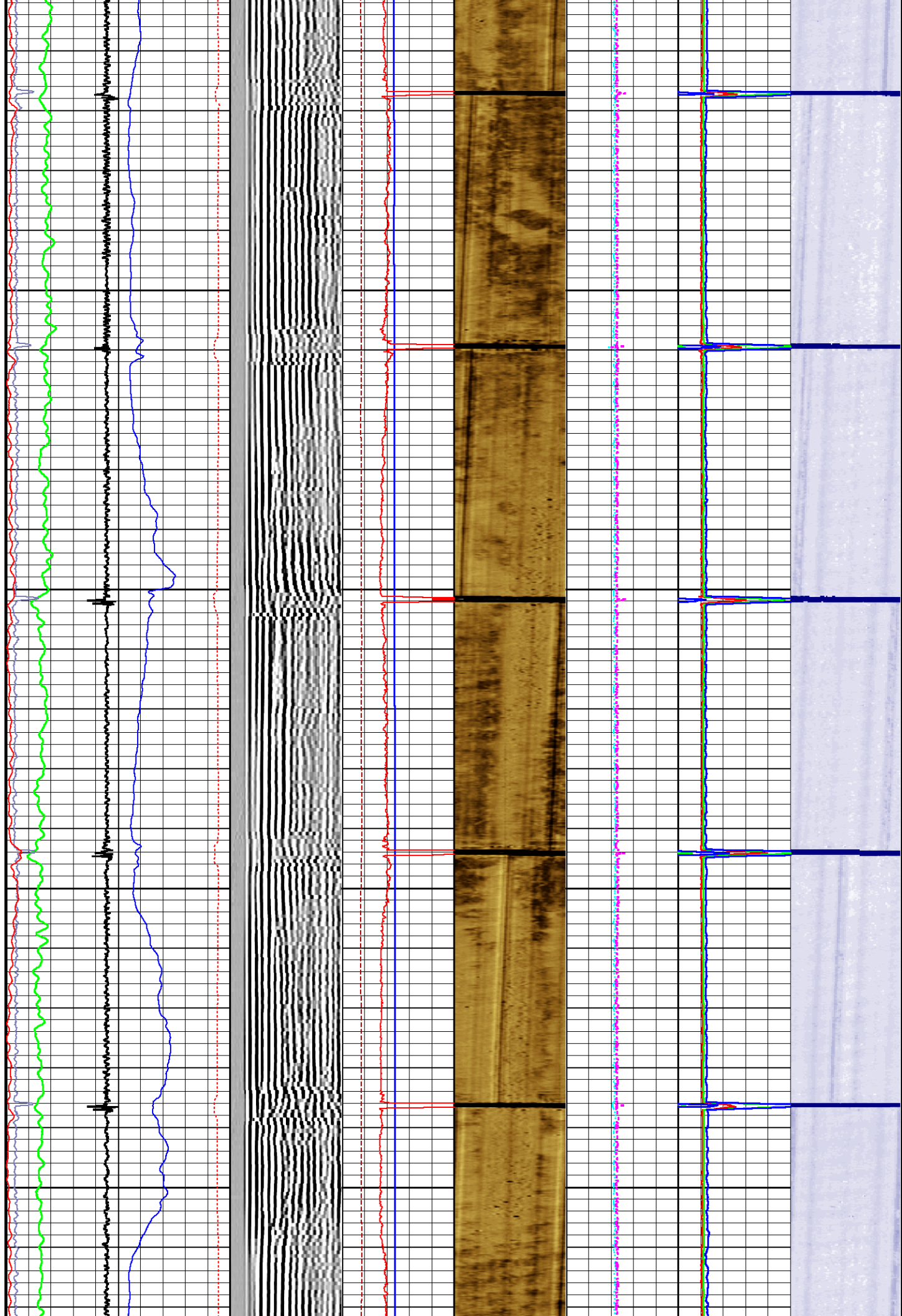


300

350

400

450



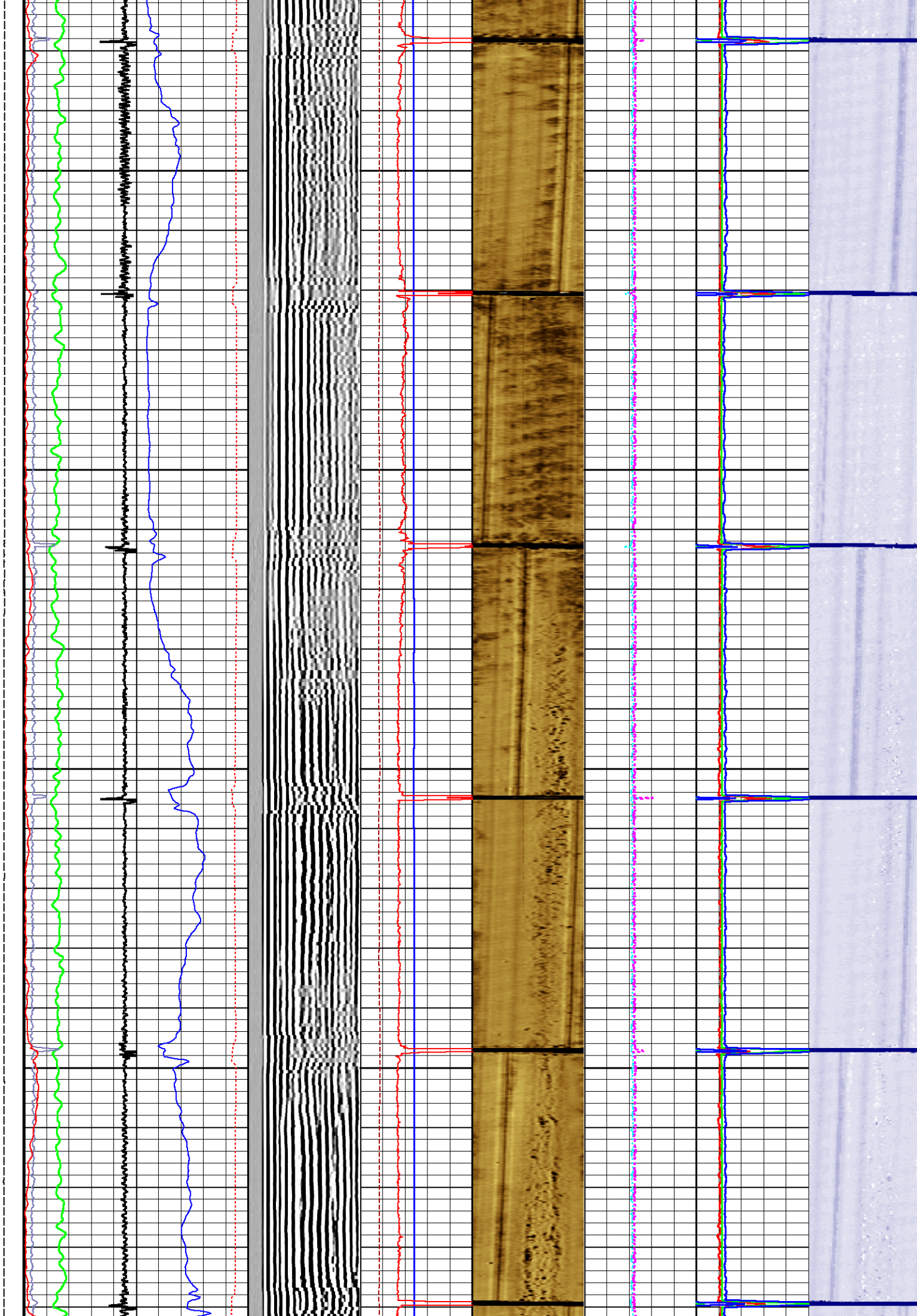


500

550

600

650



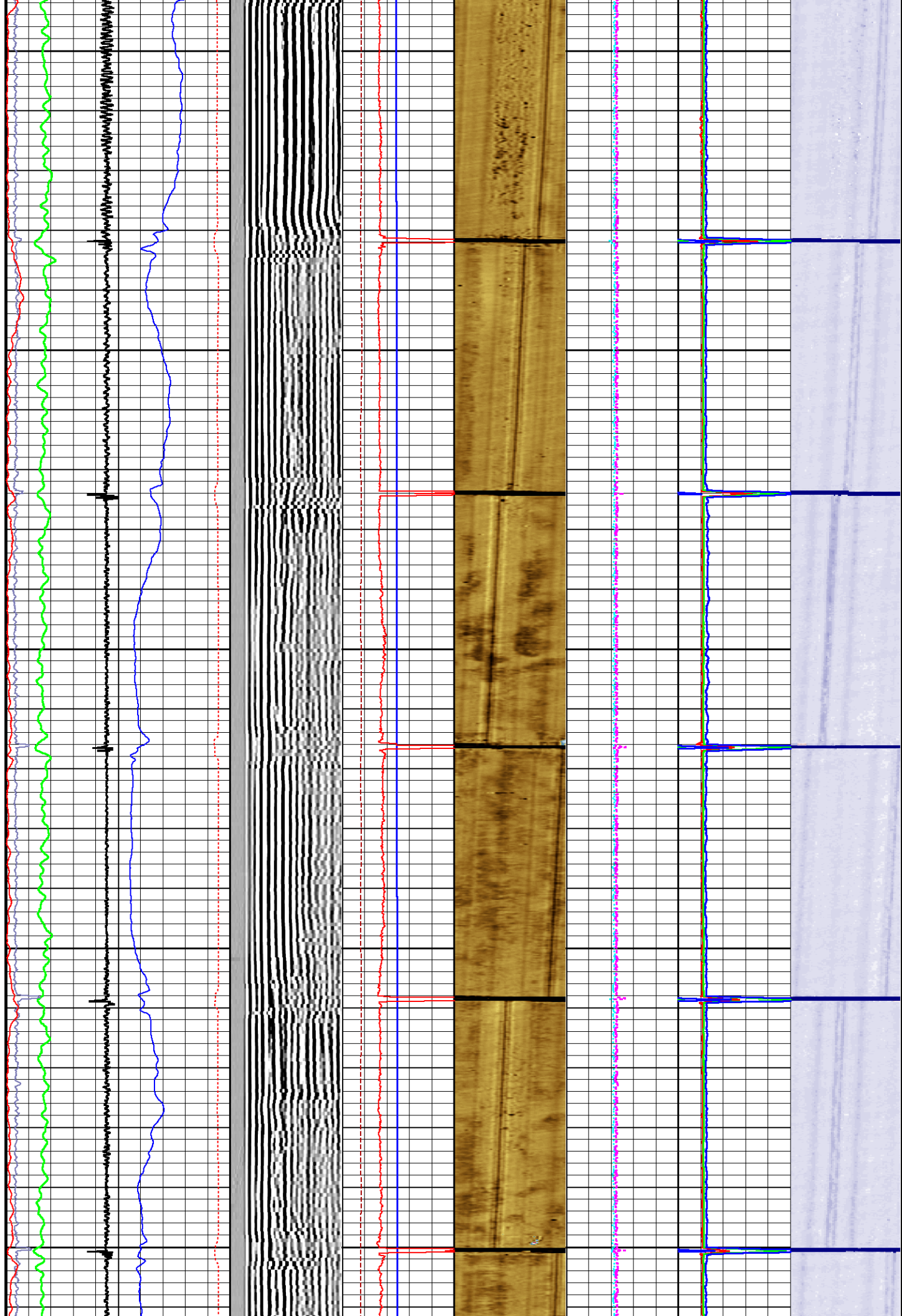
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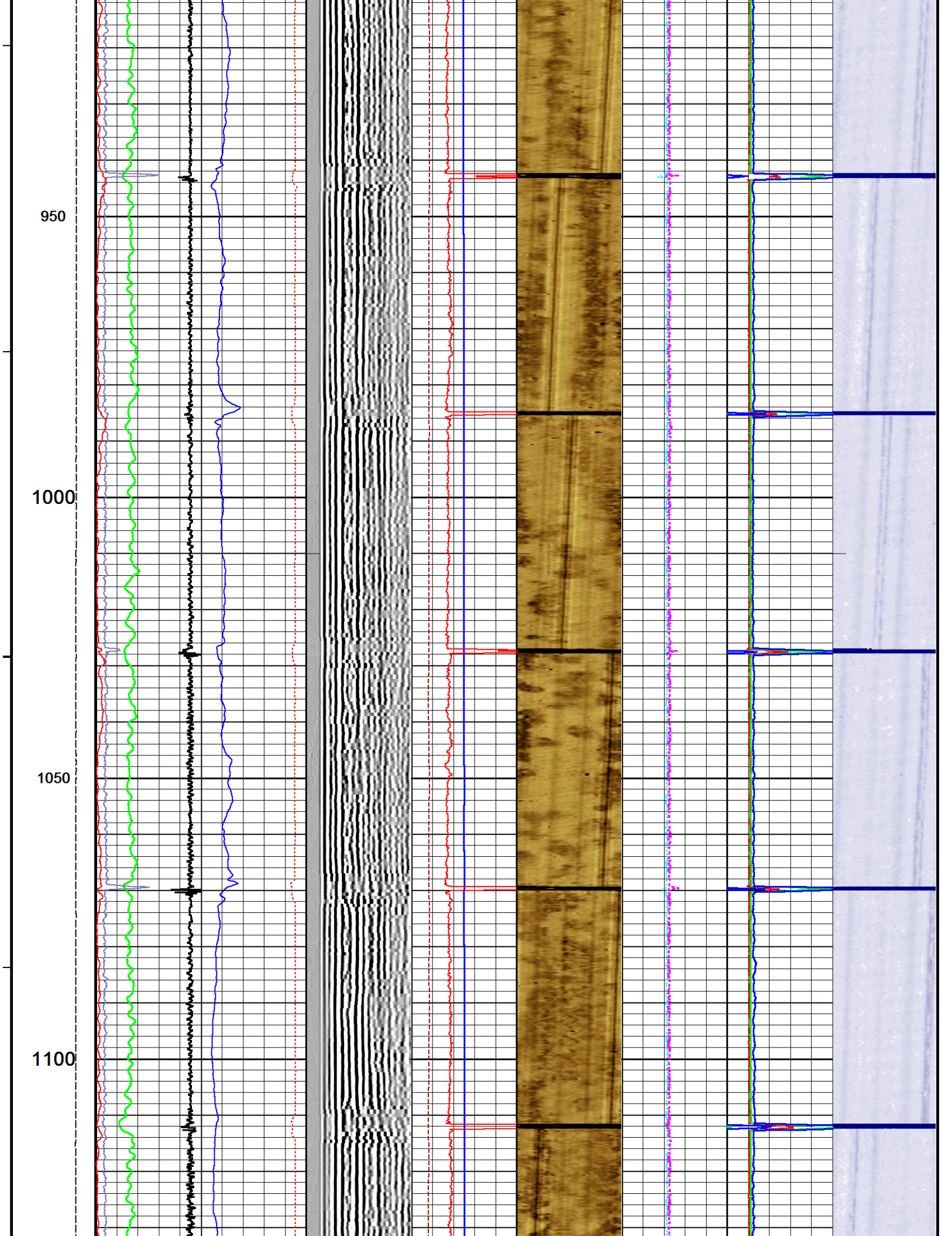
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800

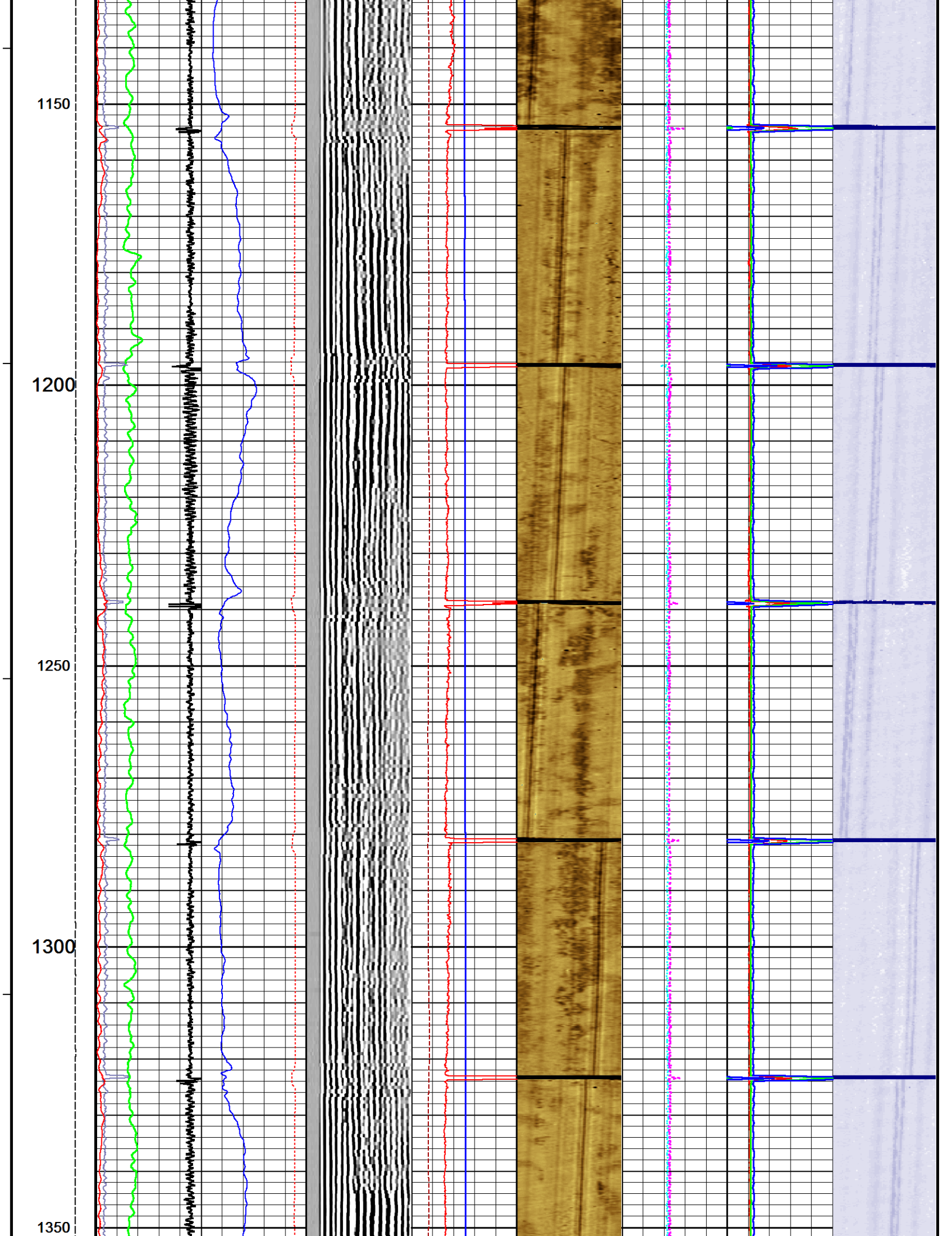
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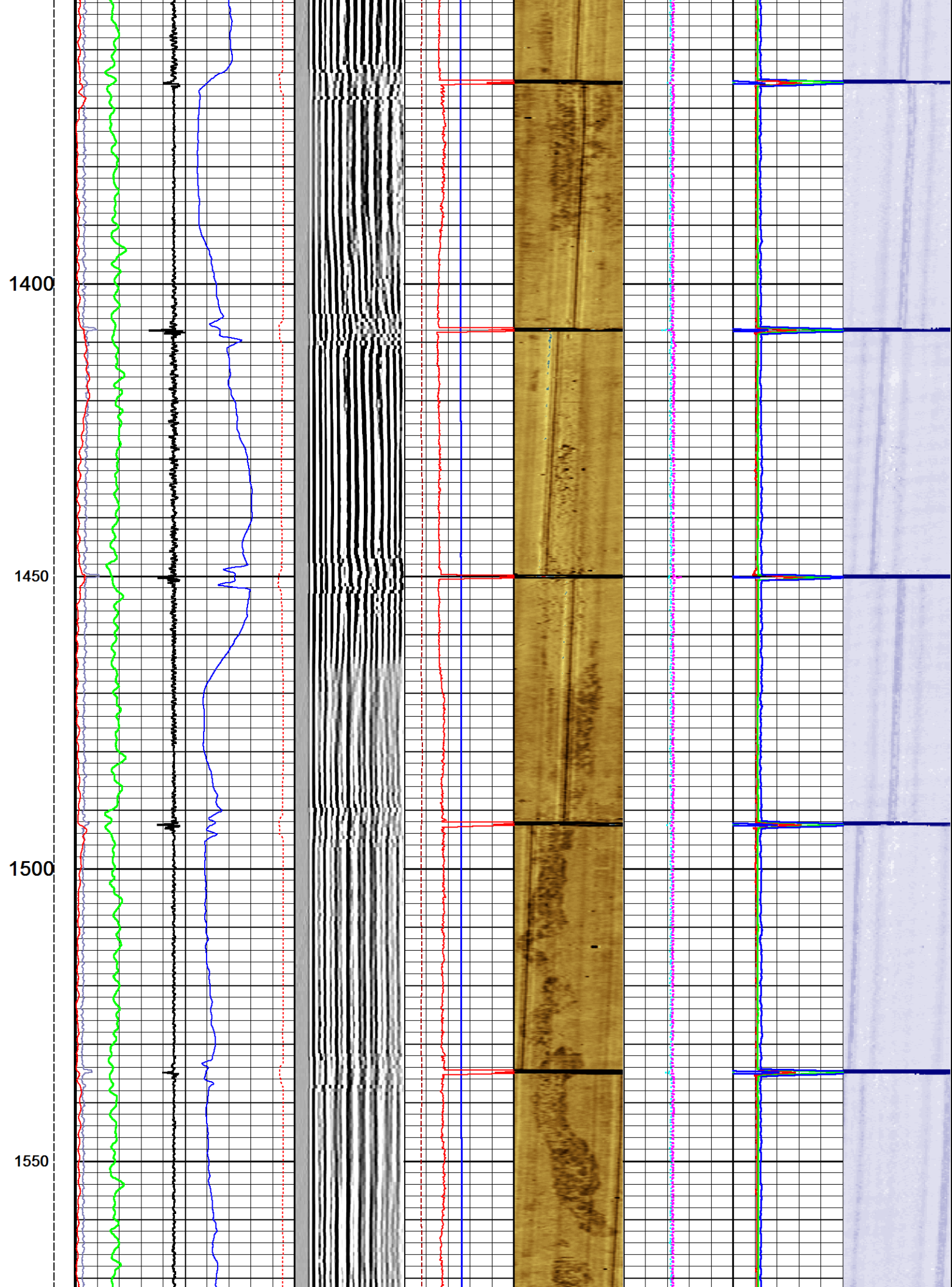
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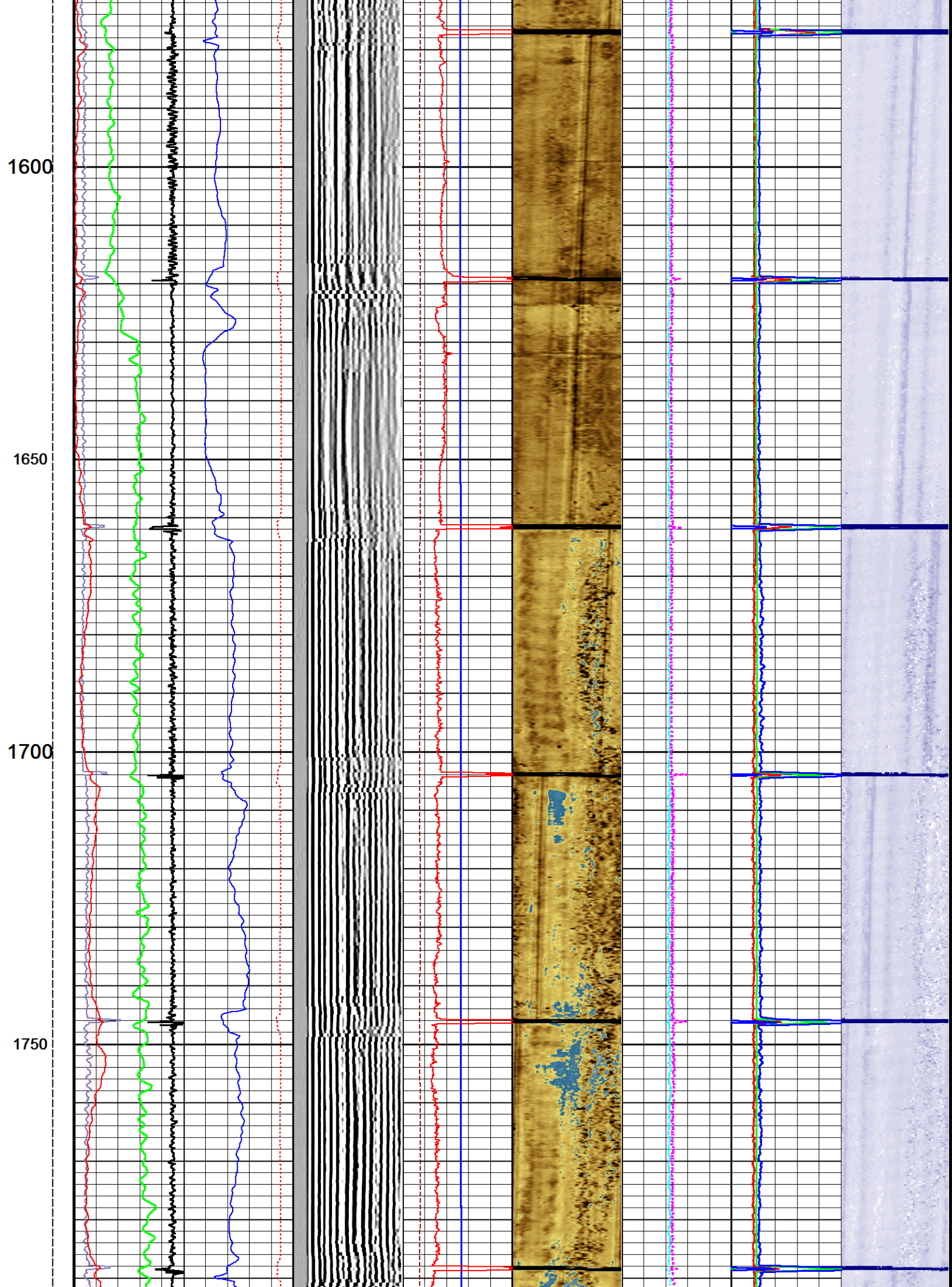






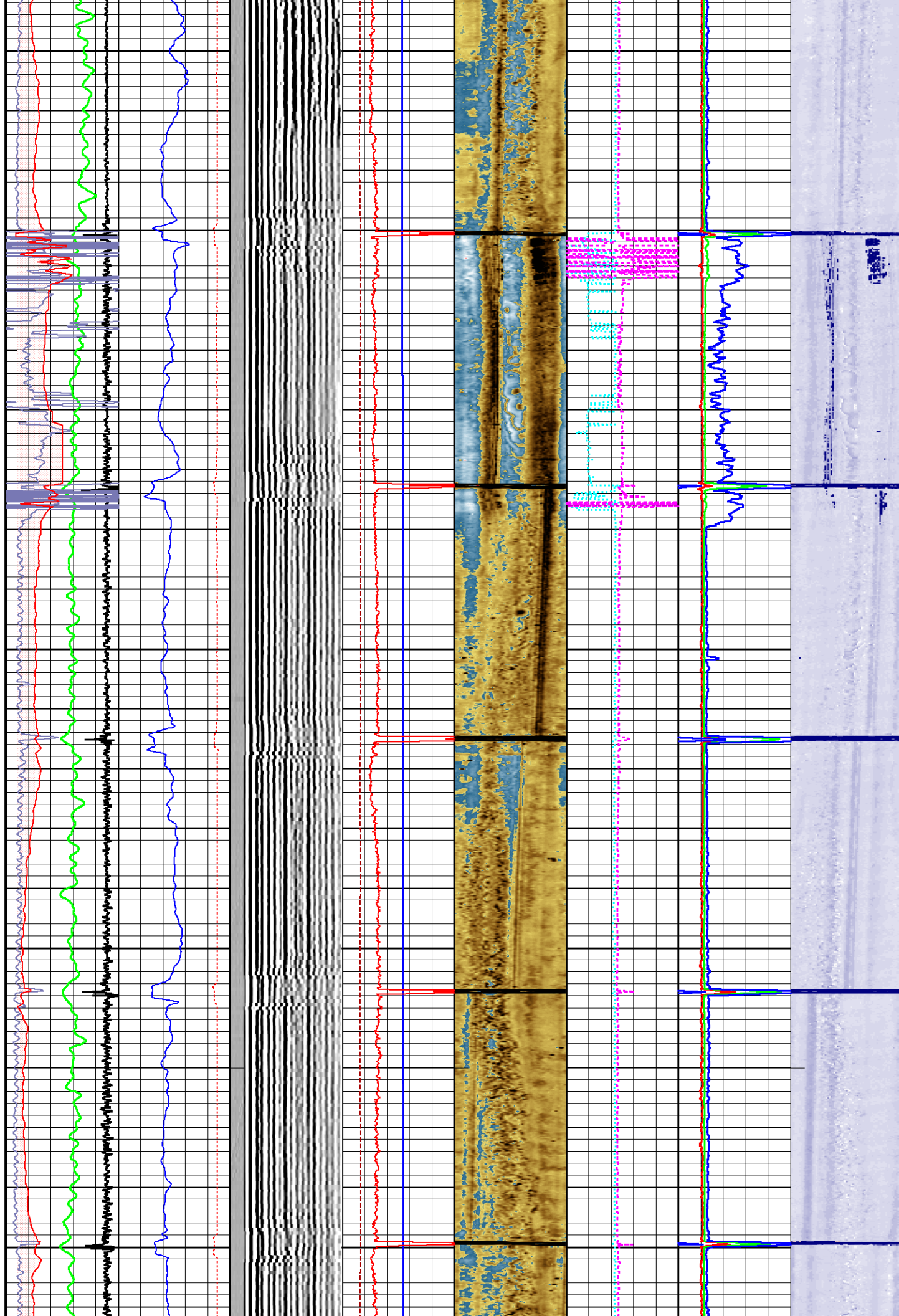


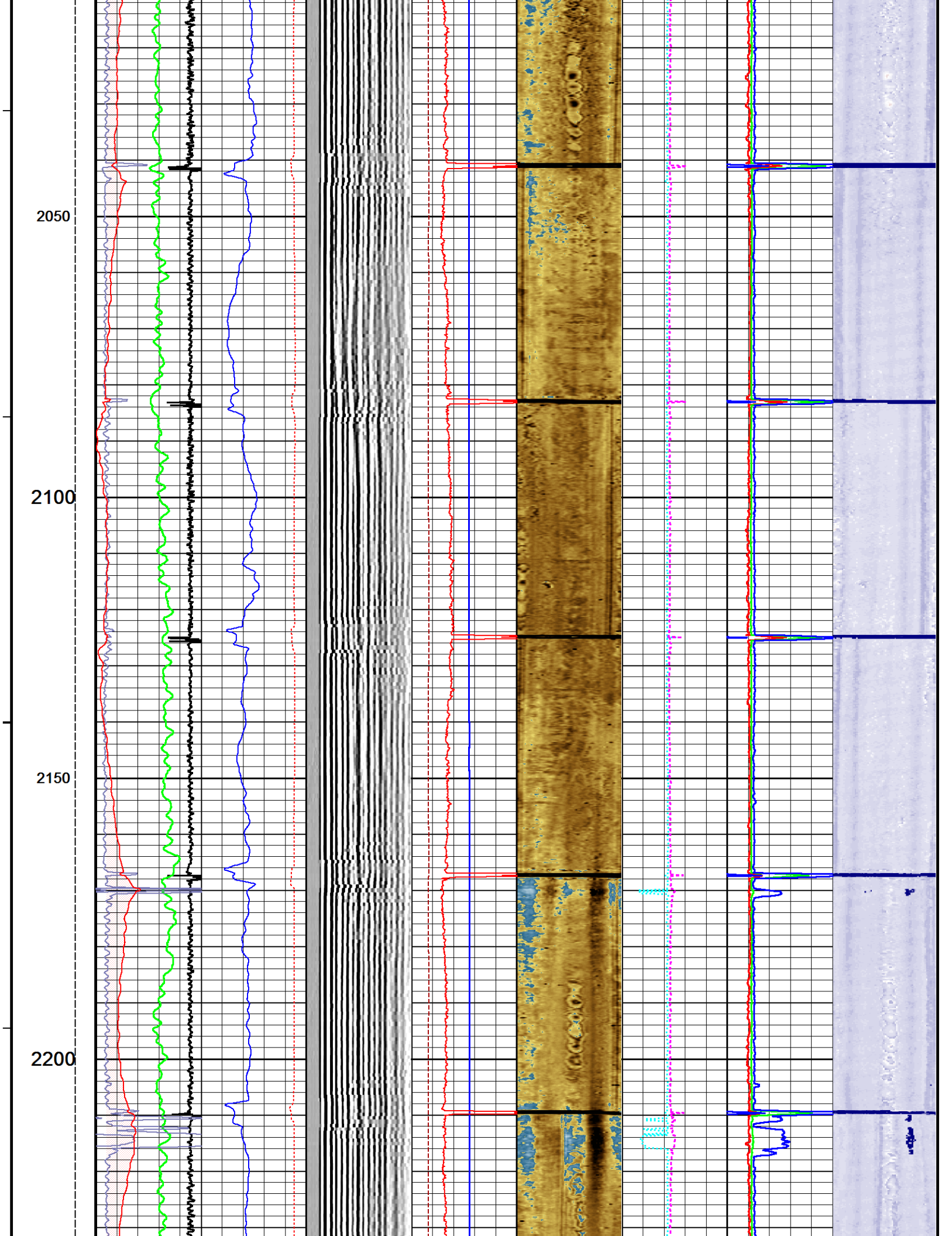




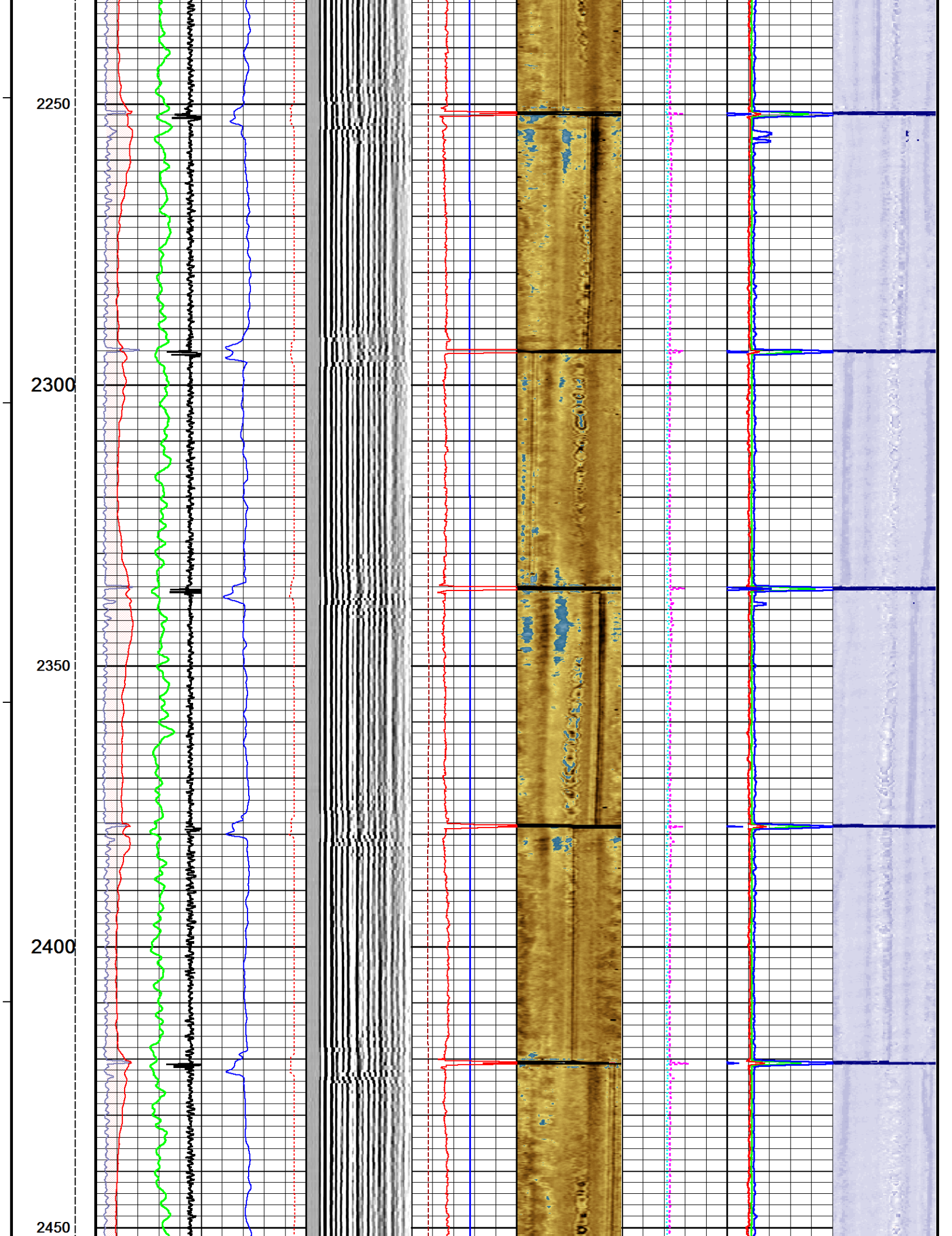


1800  
1850  
1900  
1950  
2000

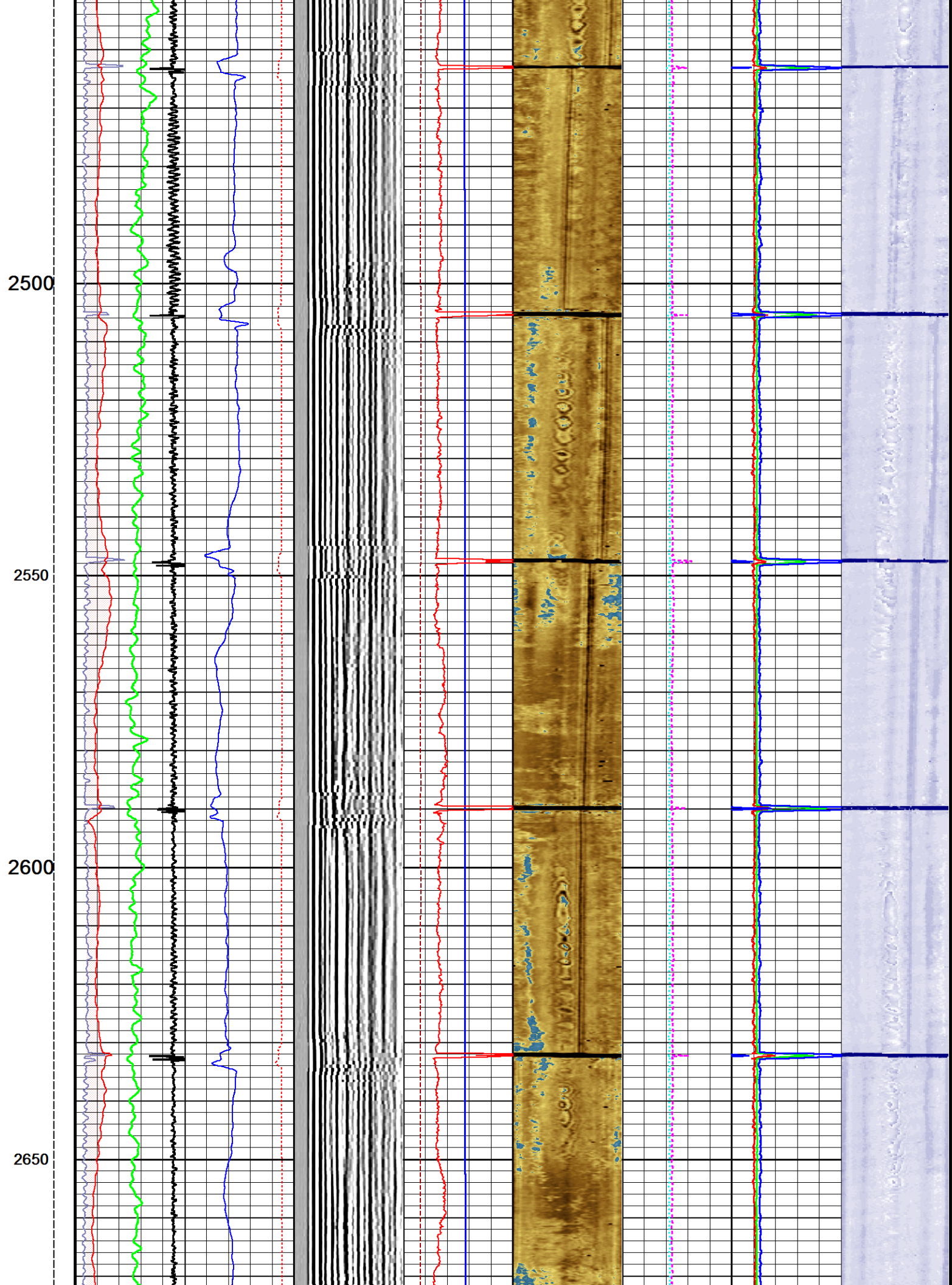










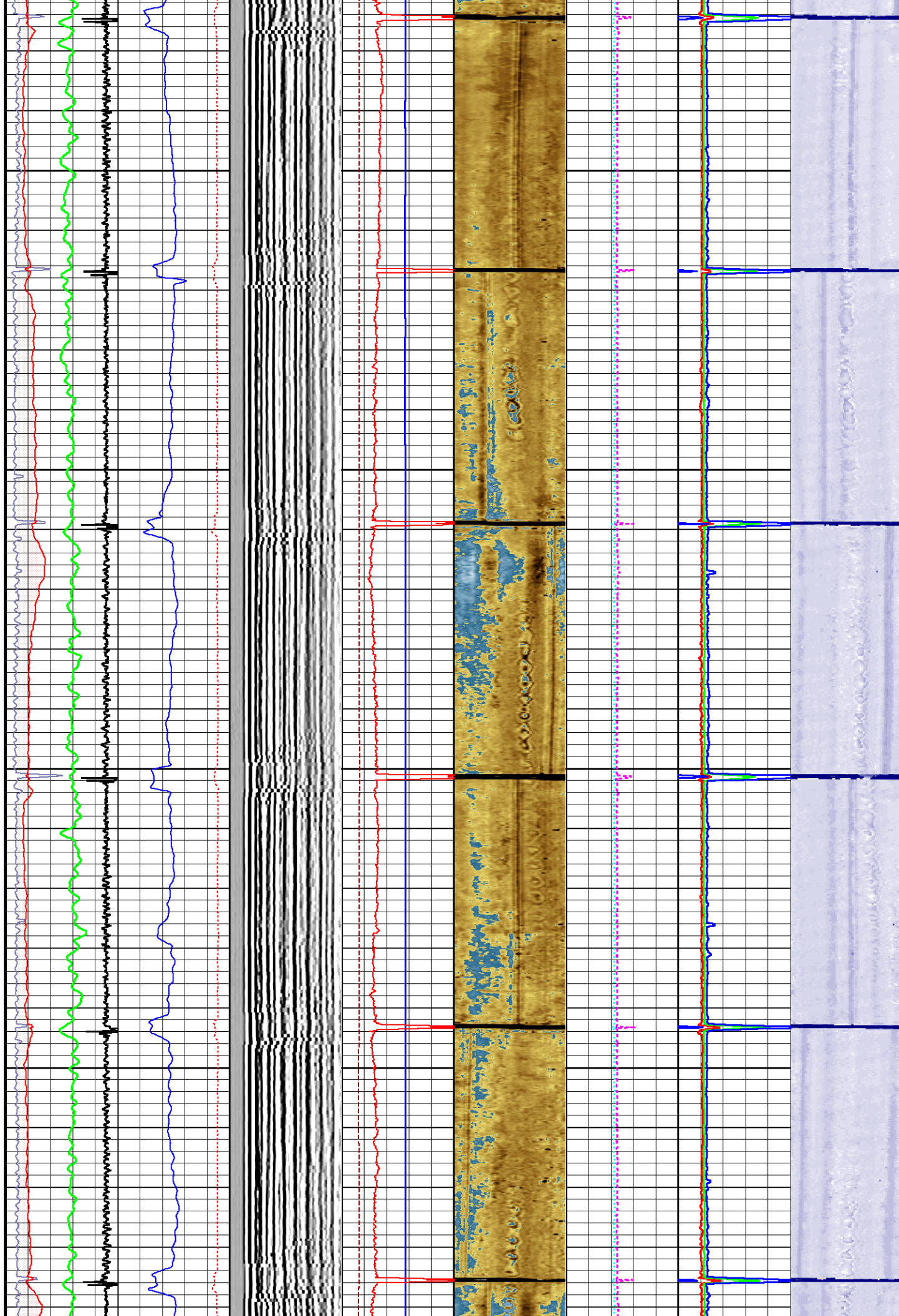


2700

2750

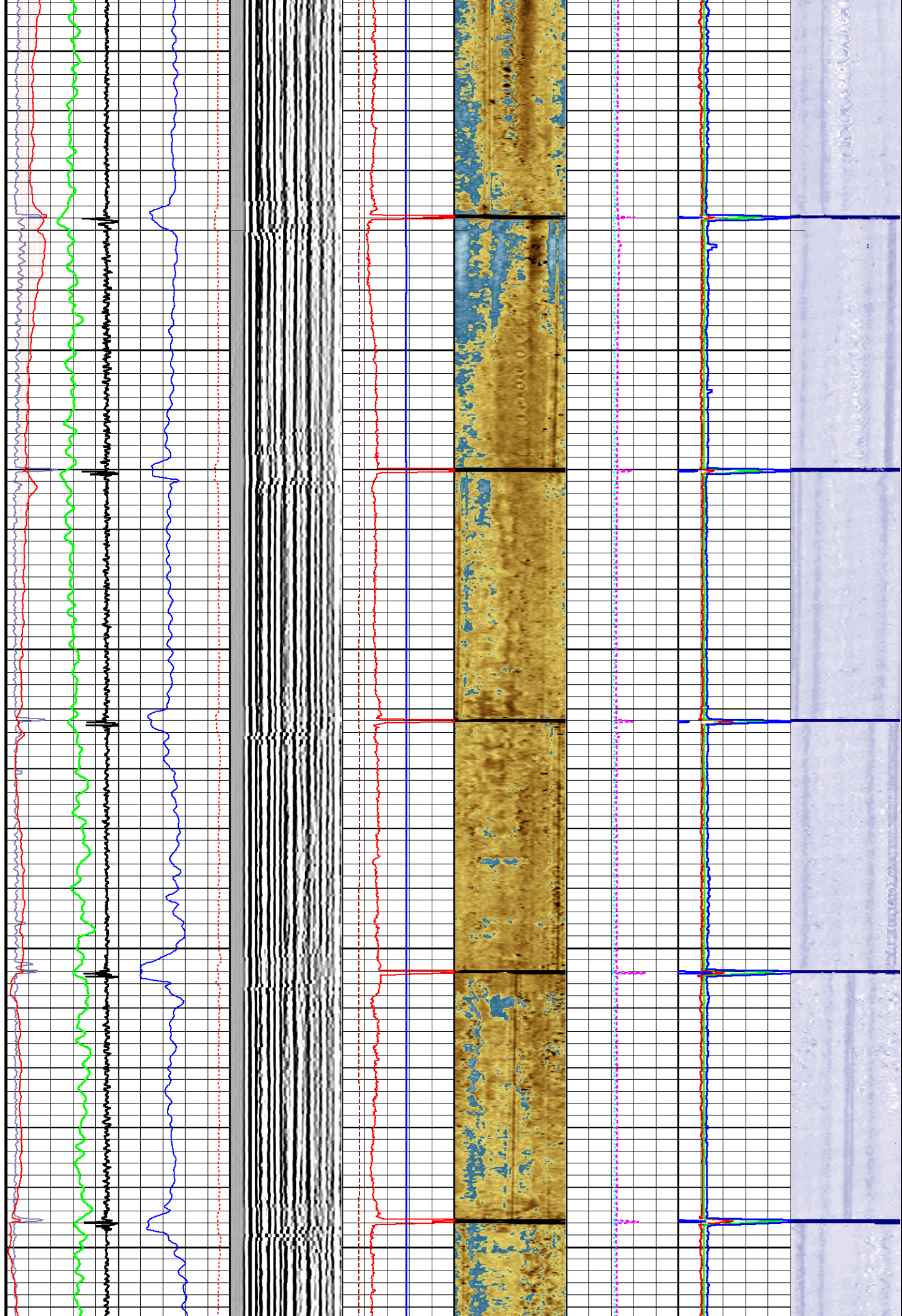
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2850

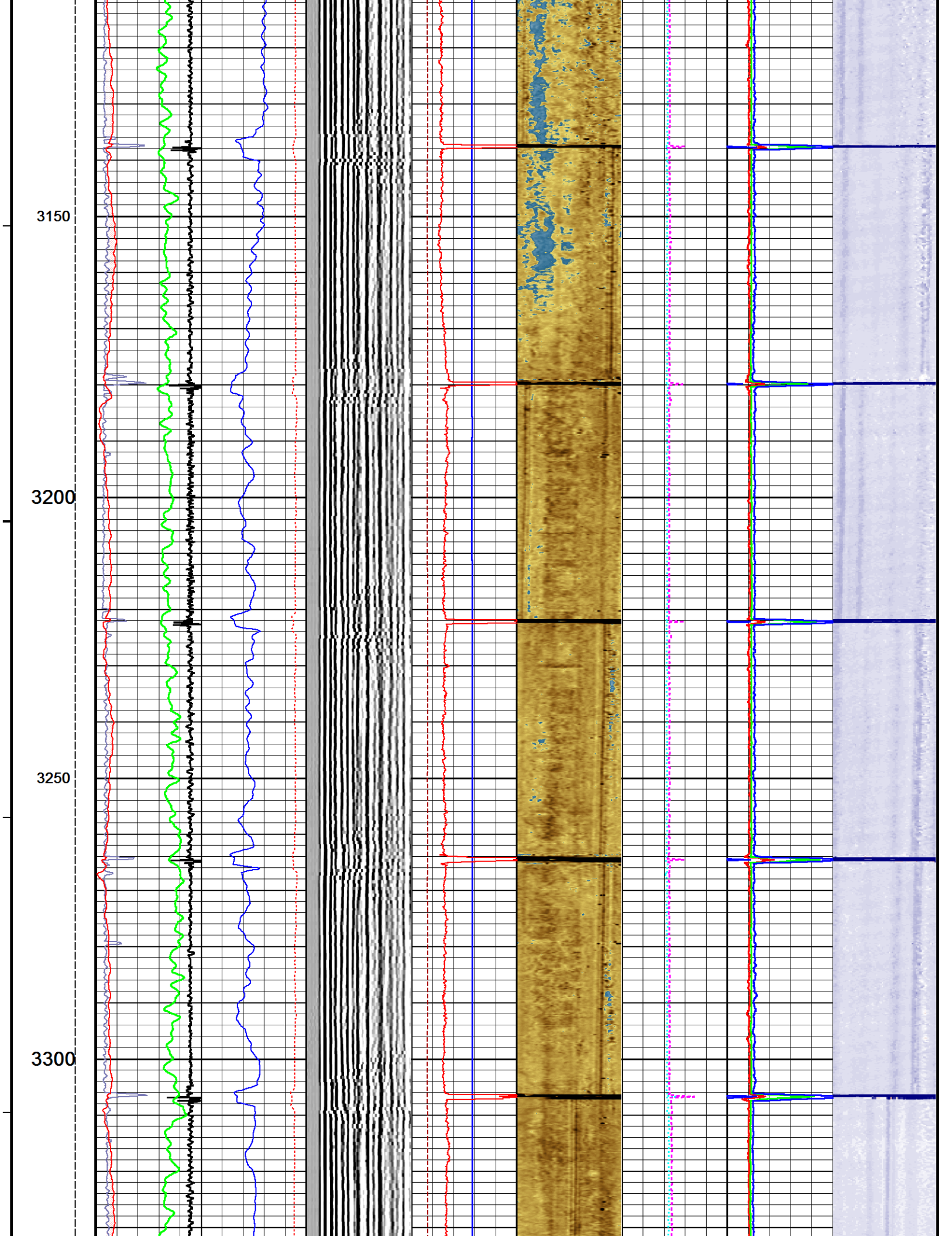


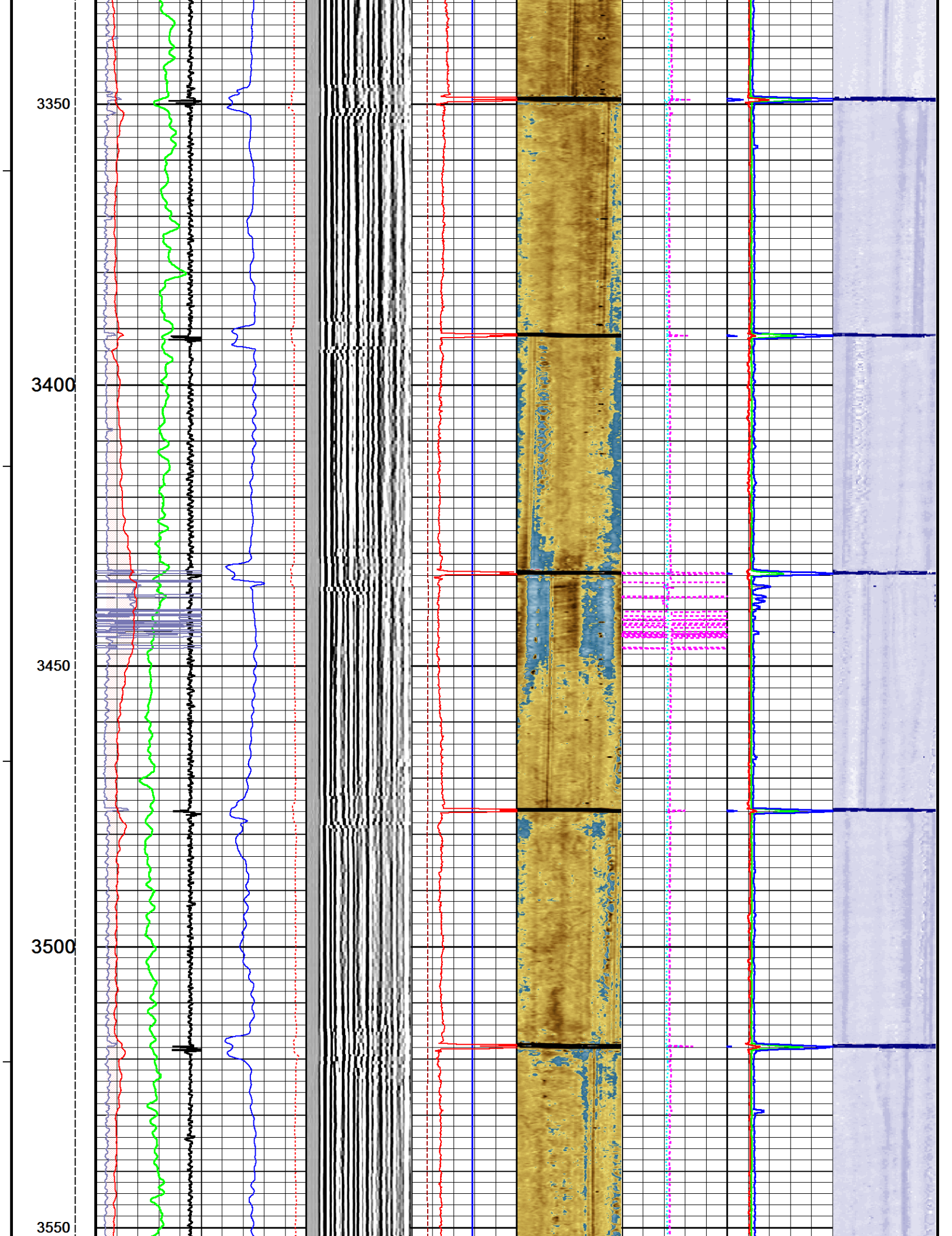


2900  
2950  
3000  
3050  
3100

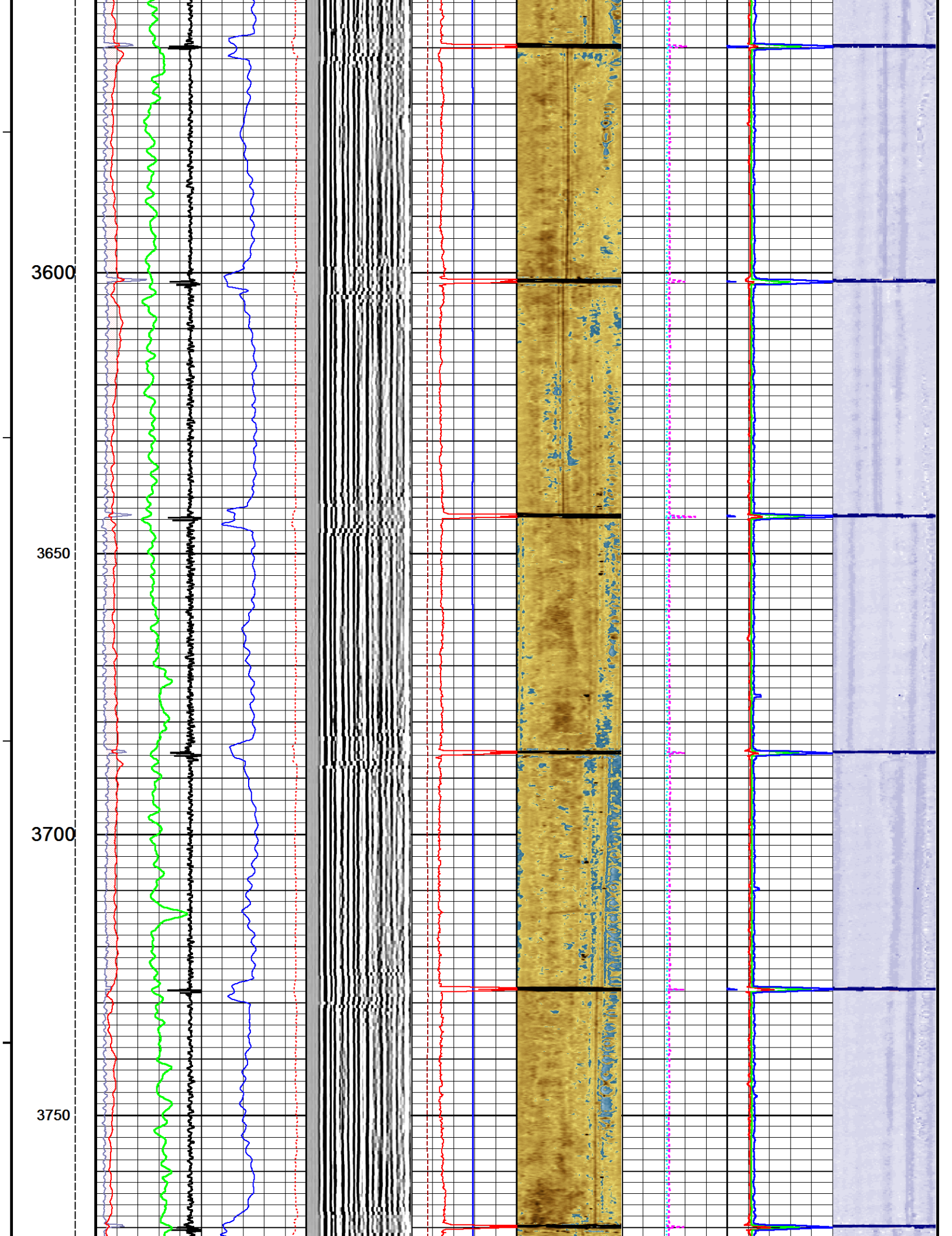




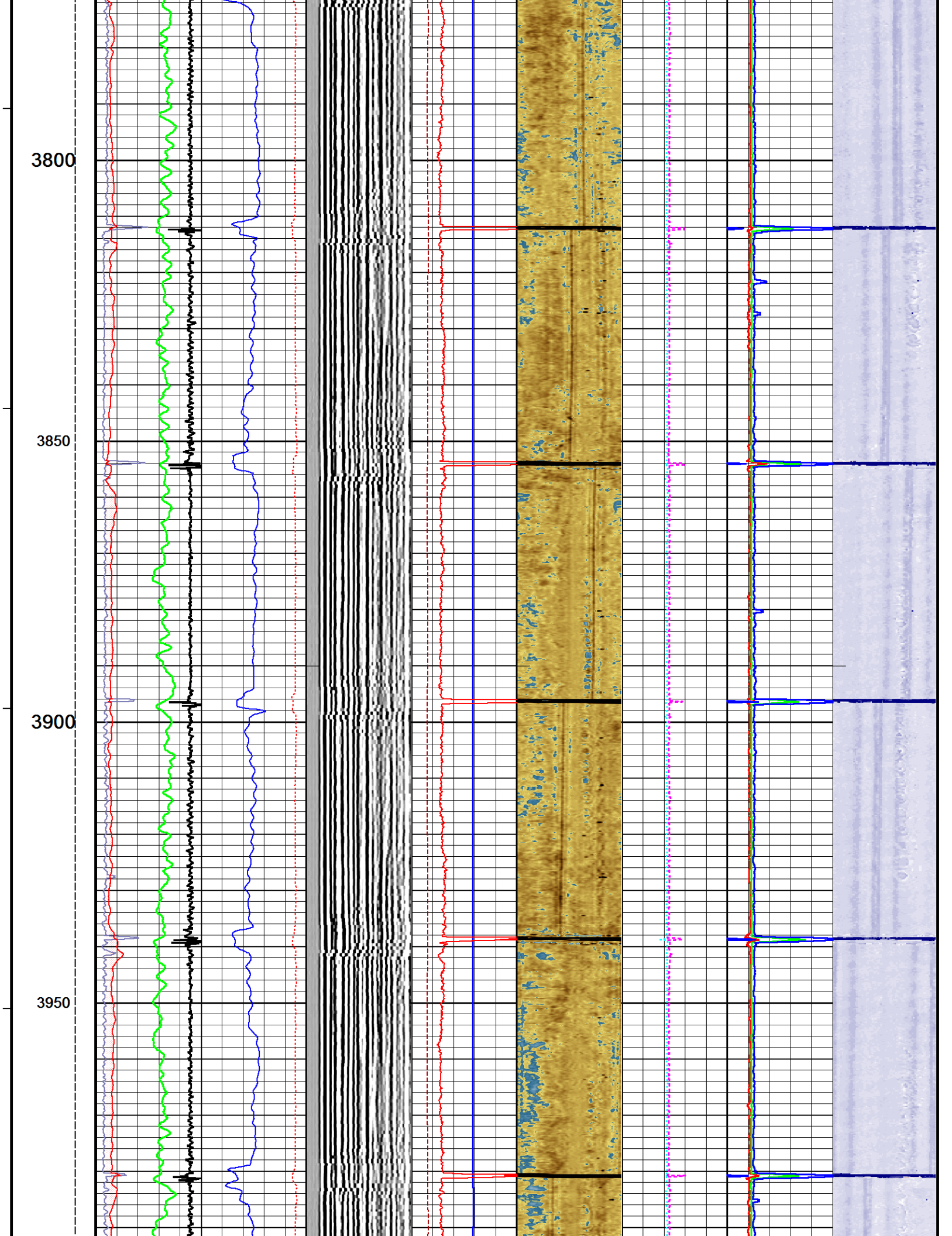


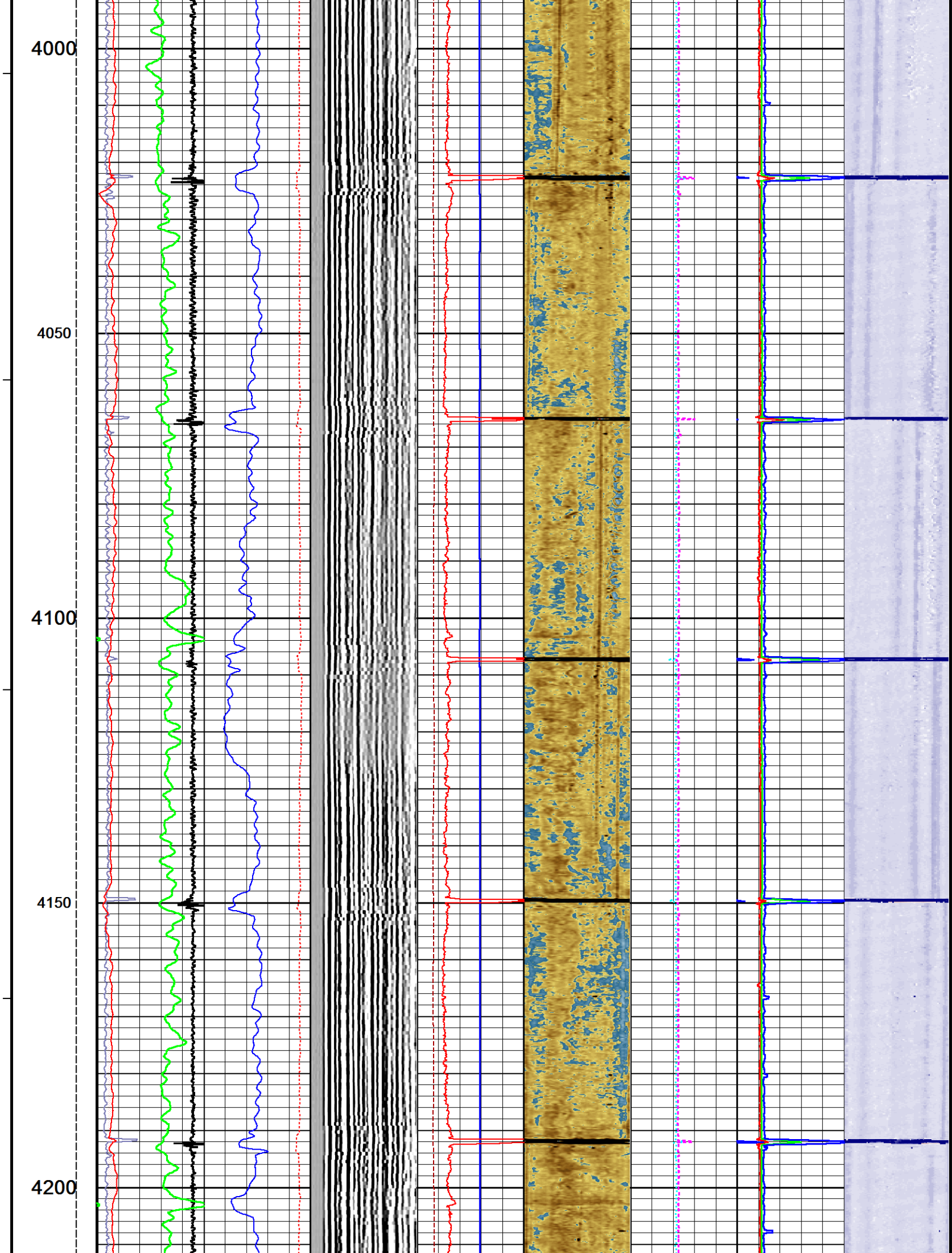




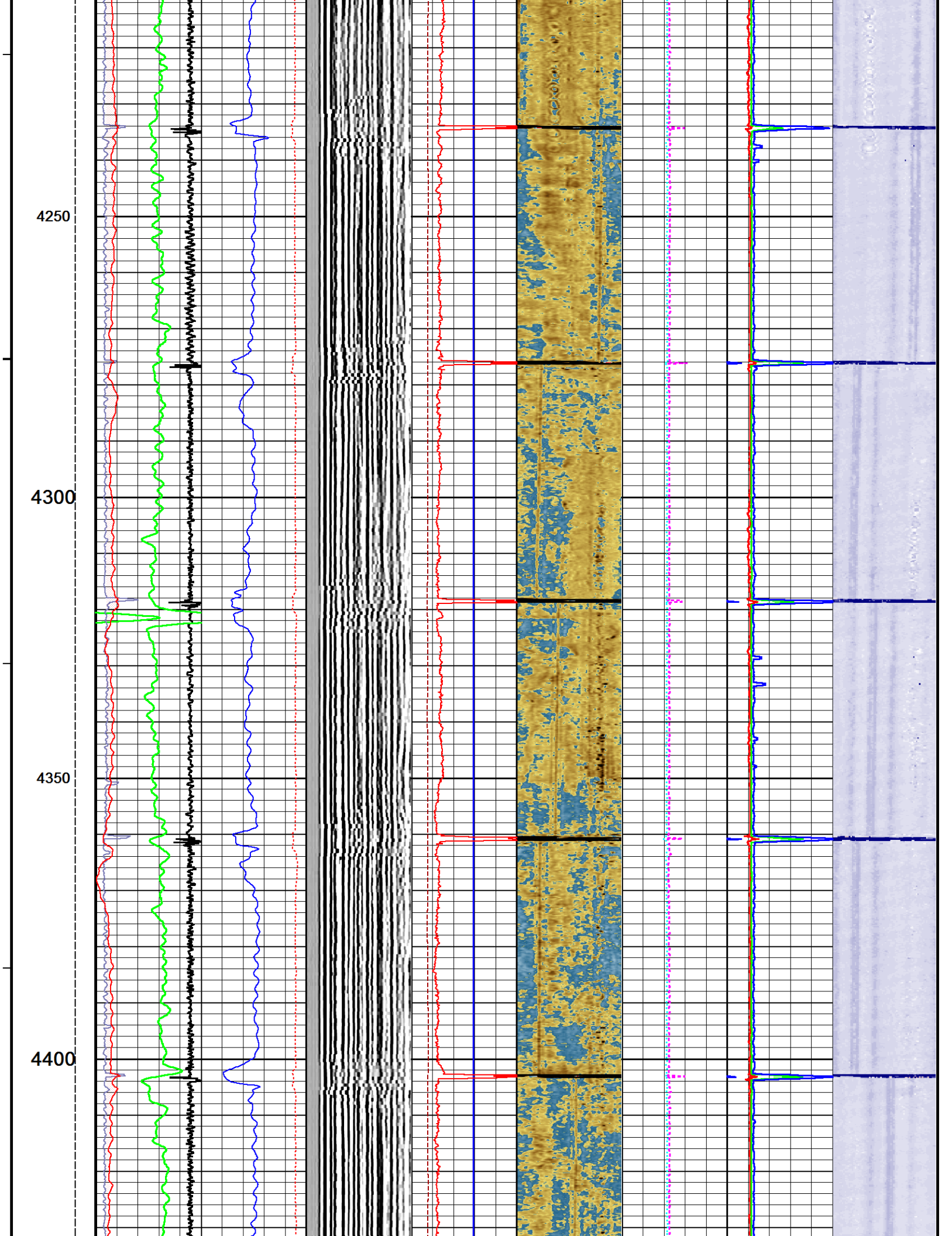




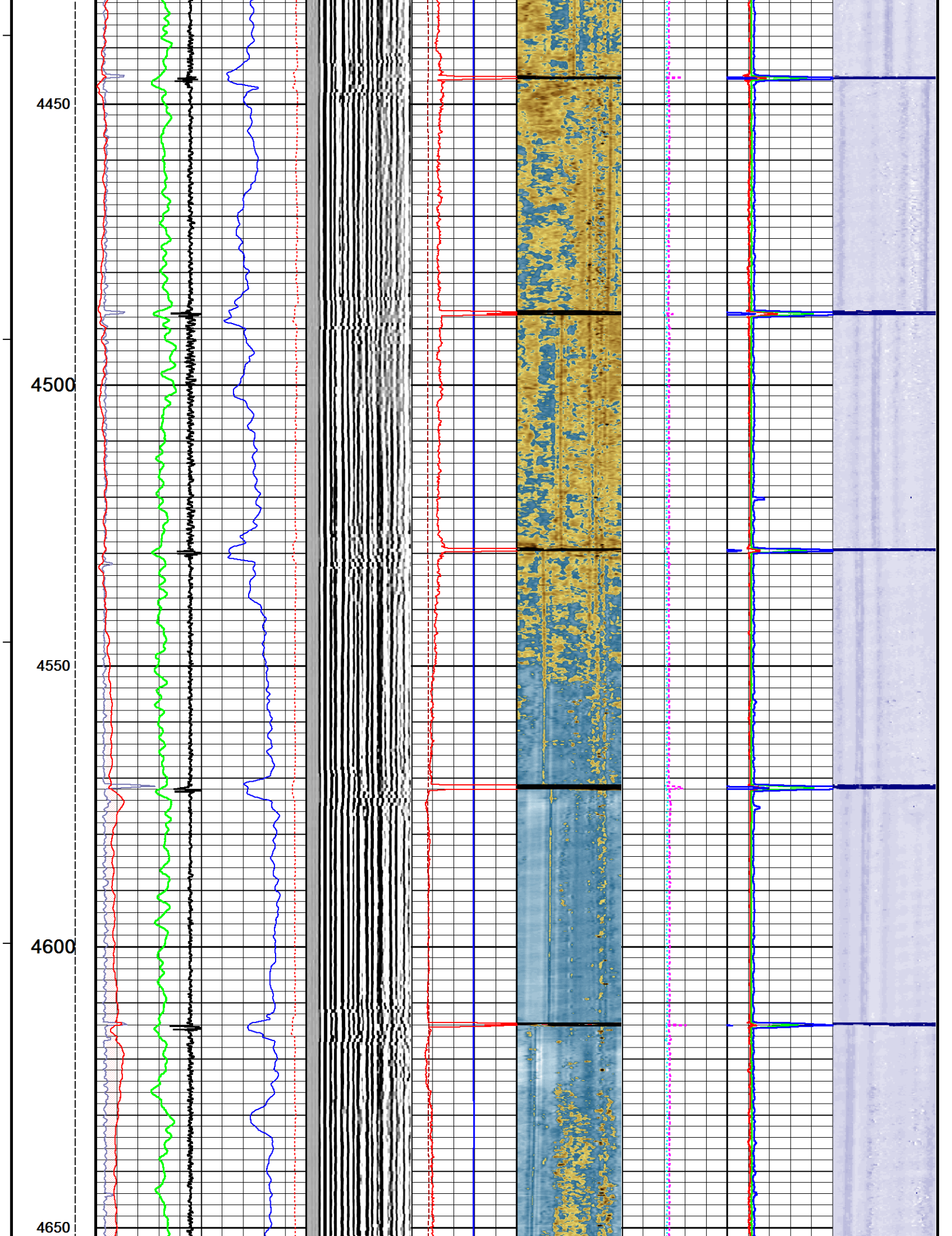


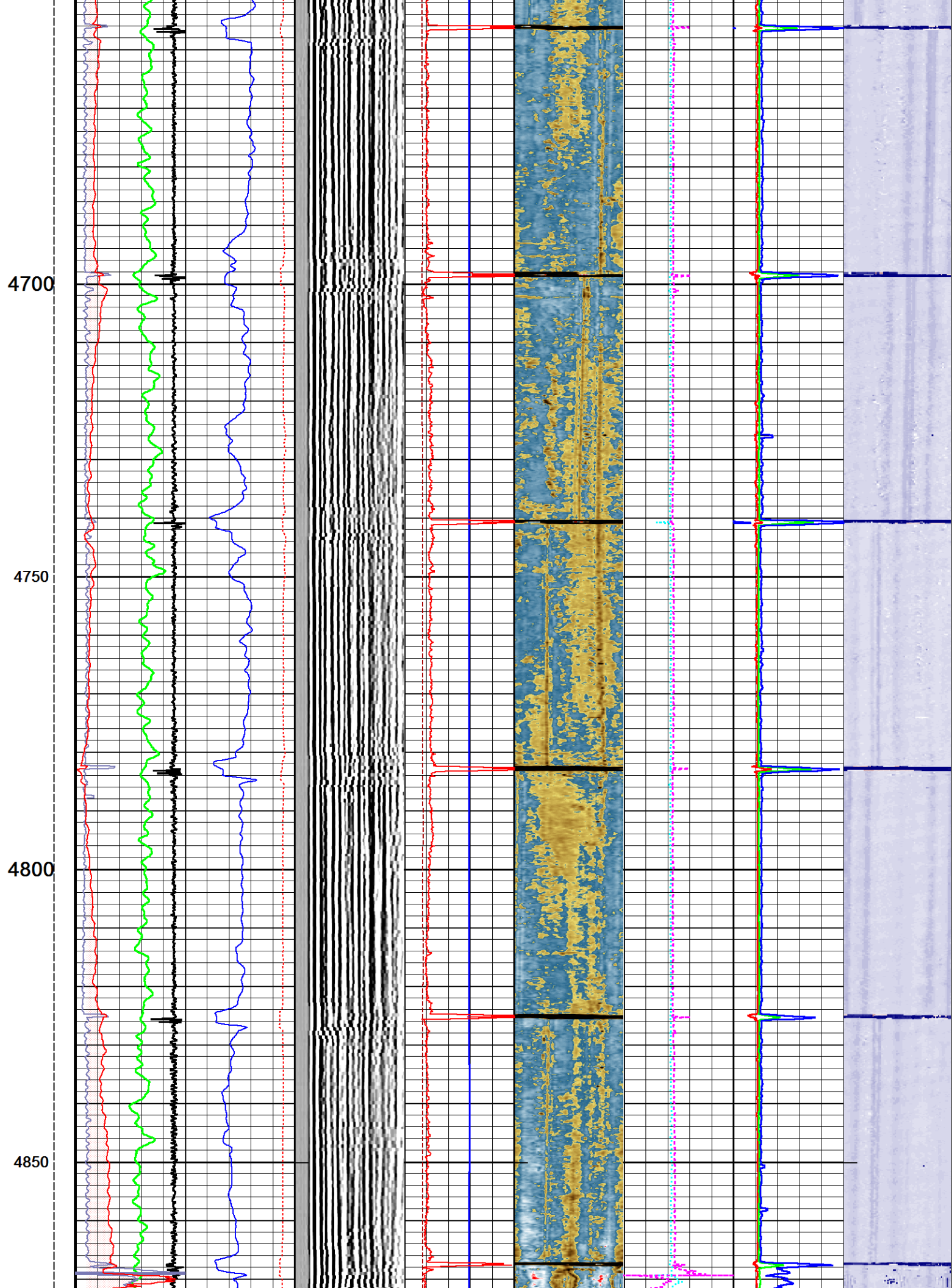




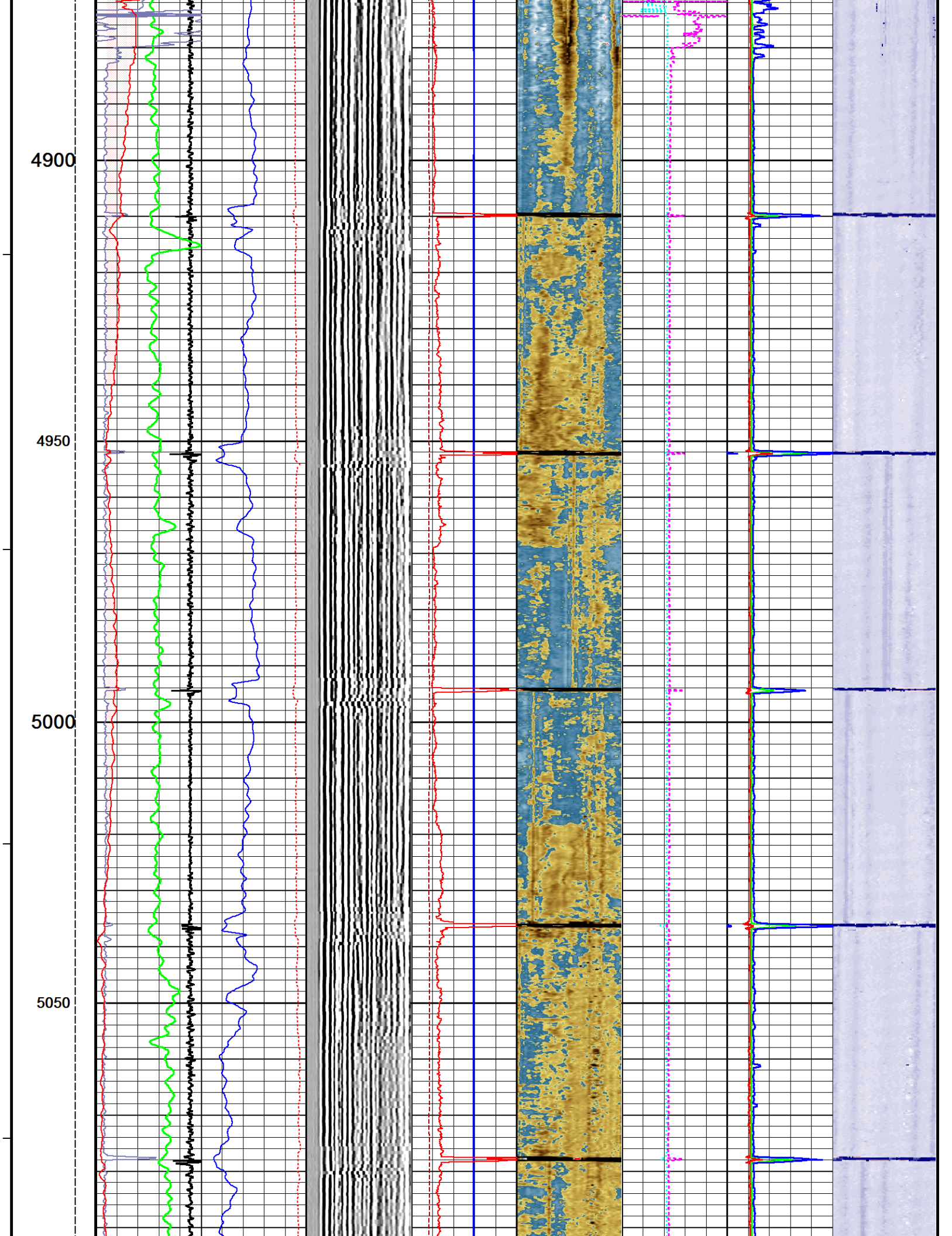




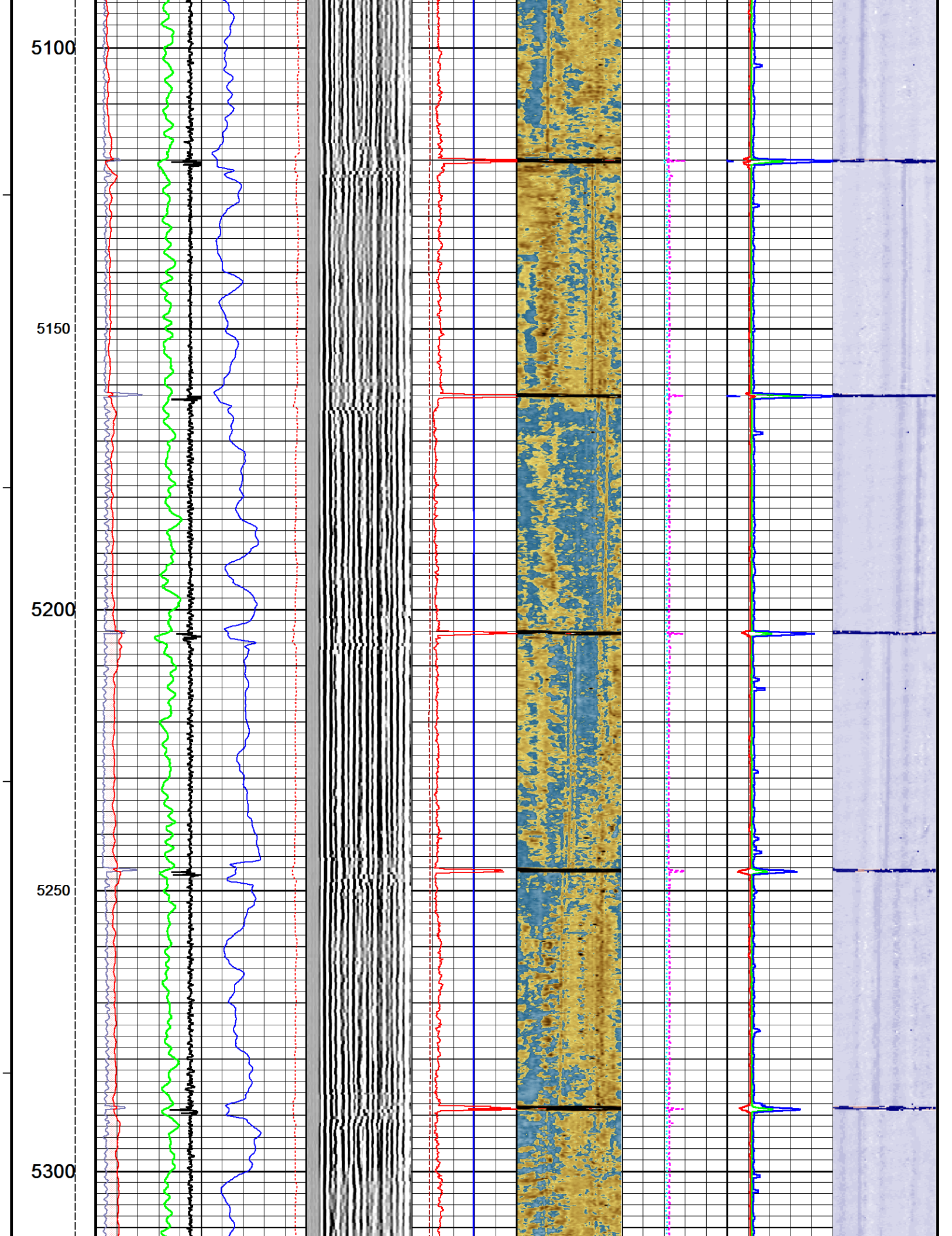


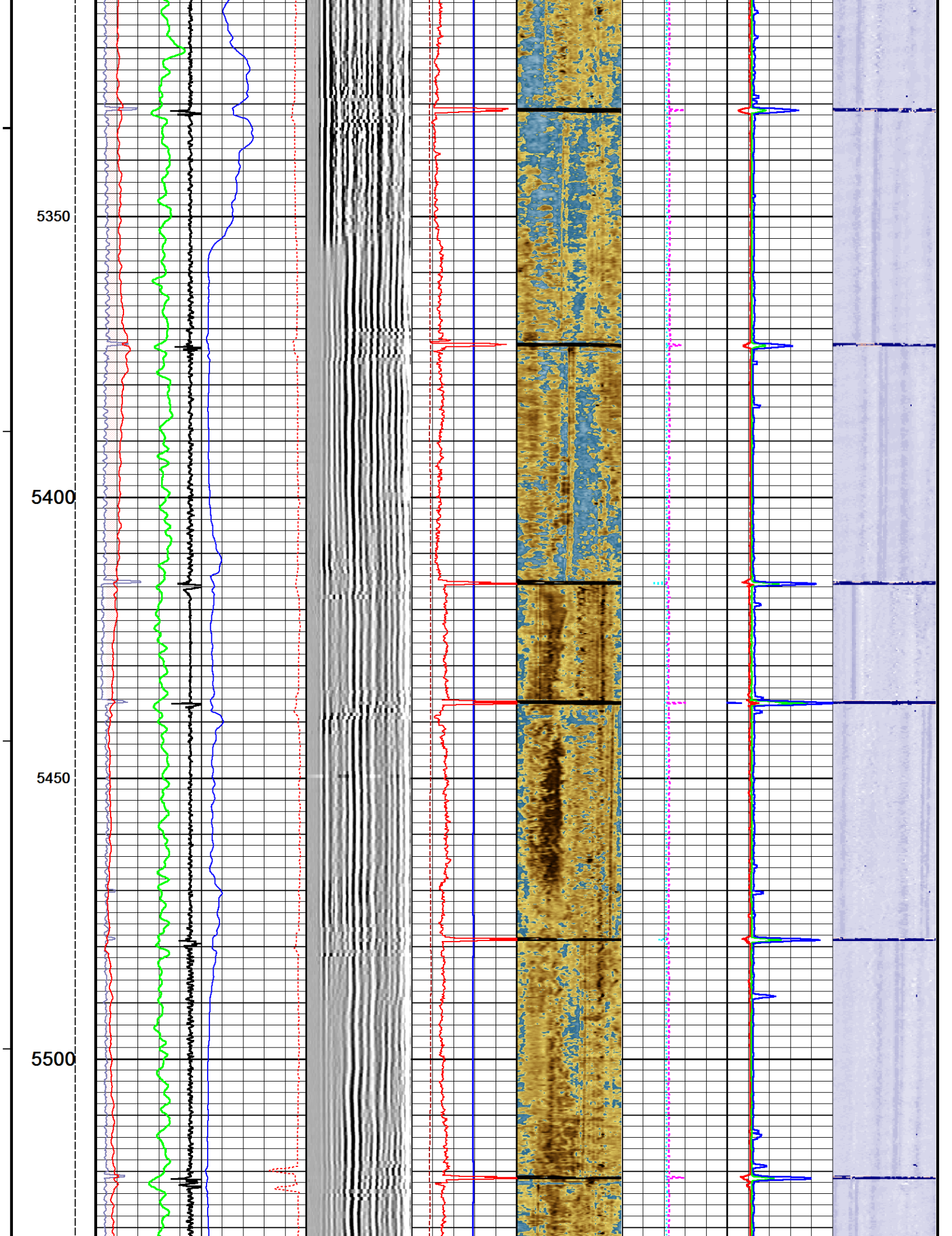




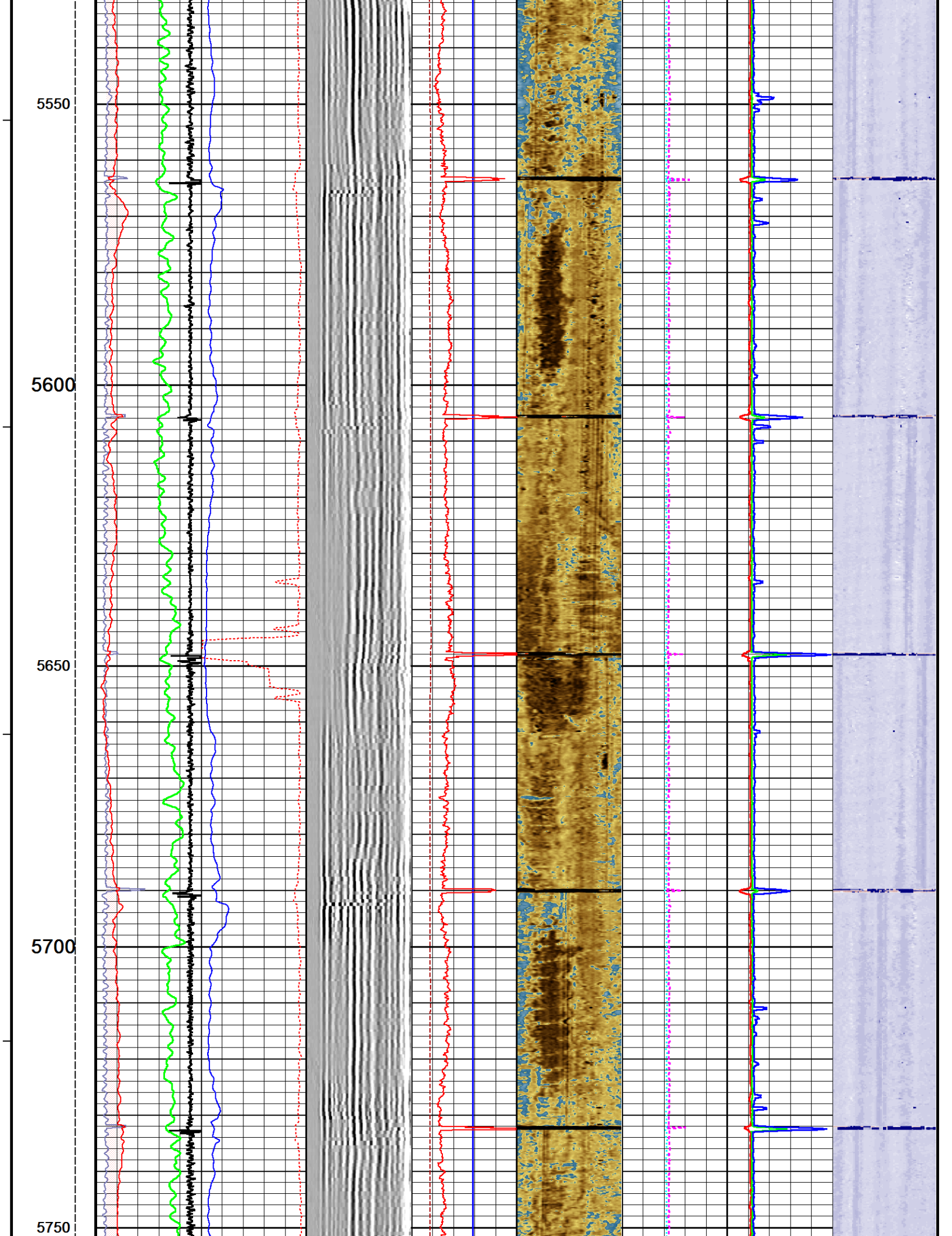












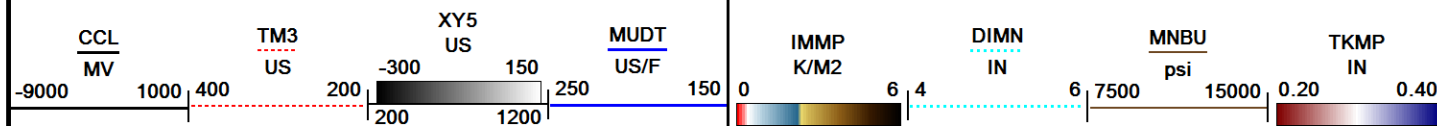


5800

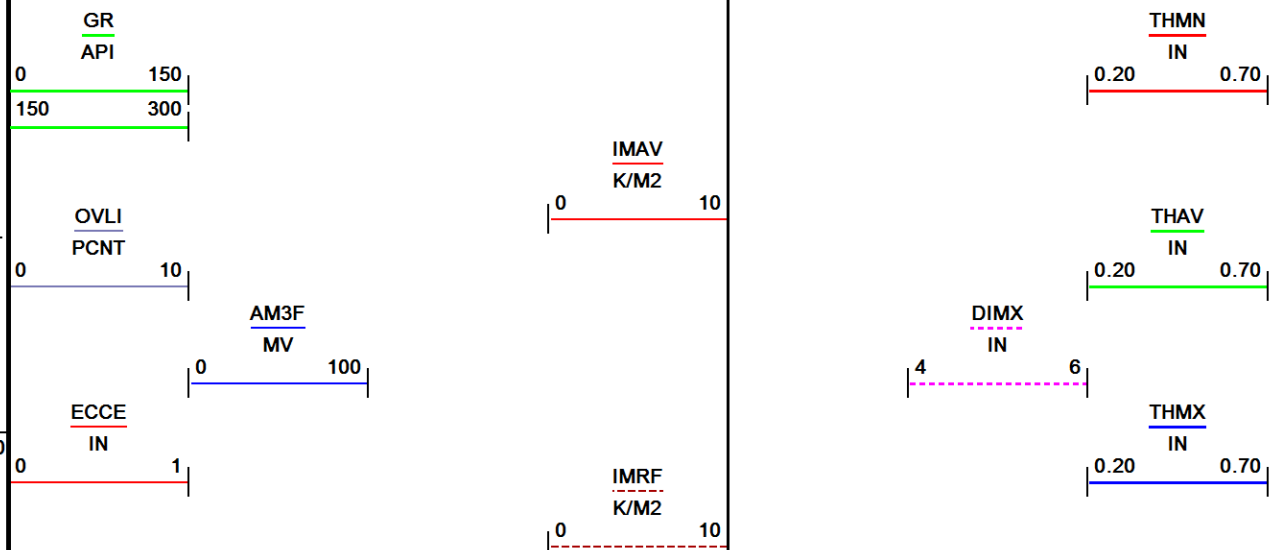
5850

5884

Depth  
in  
Feet



Timing  
Marks  
every  
60.0 sec



TENS

5000

Replay  
Scale  
1:240

Depth Based Data - Maximum Sampling Increment 2.5cm

Plotted on 28-JUN-2018 14:16

Filename: C:\LOGS\BONANZA CRE...\STATE NORTH PLATTE J24-F21-26HNC MAIN PASS\_003.dta

Recorded on 28-JUN-2018 12:54

System Versions: Logged with 18.01.5248 Processed with 18.01.5248 Plotted with 18.01.5248



## MAIN PASS



## REPEAT PASS



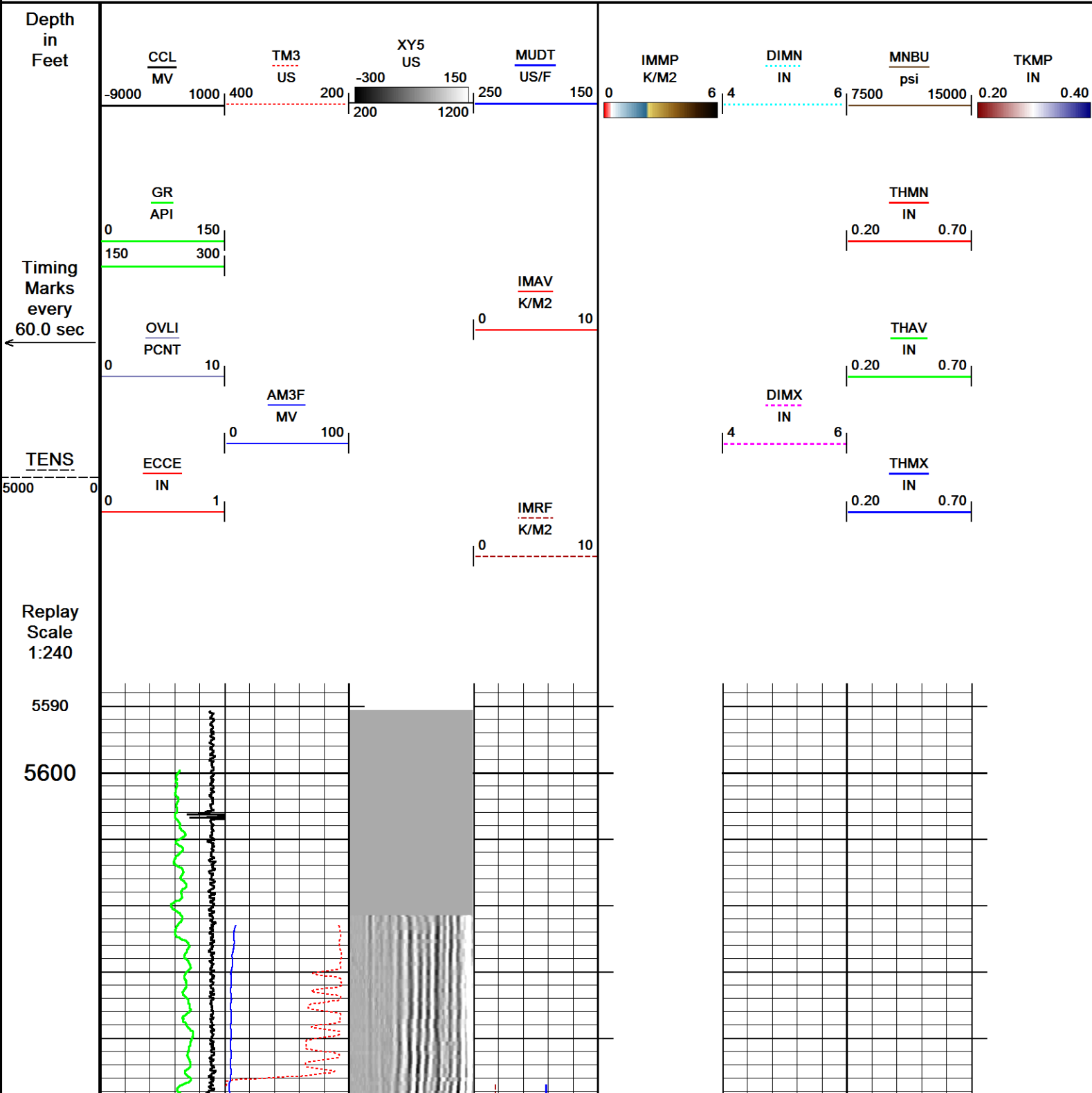
Depth Based Data - Maximum Sampling Increment 2.5cm

Plotted on 28-JUN-2018 14:16

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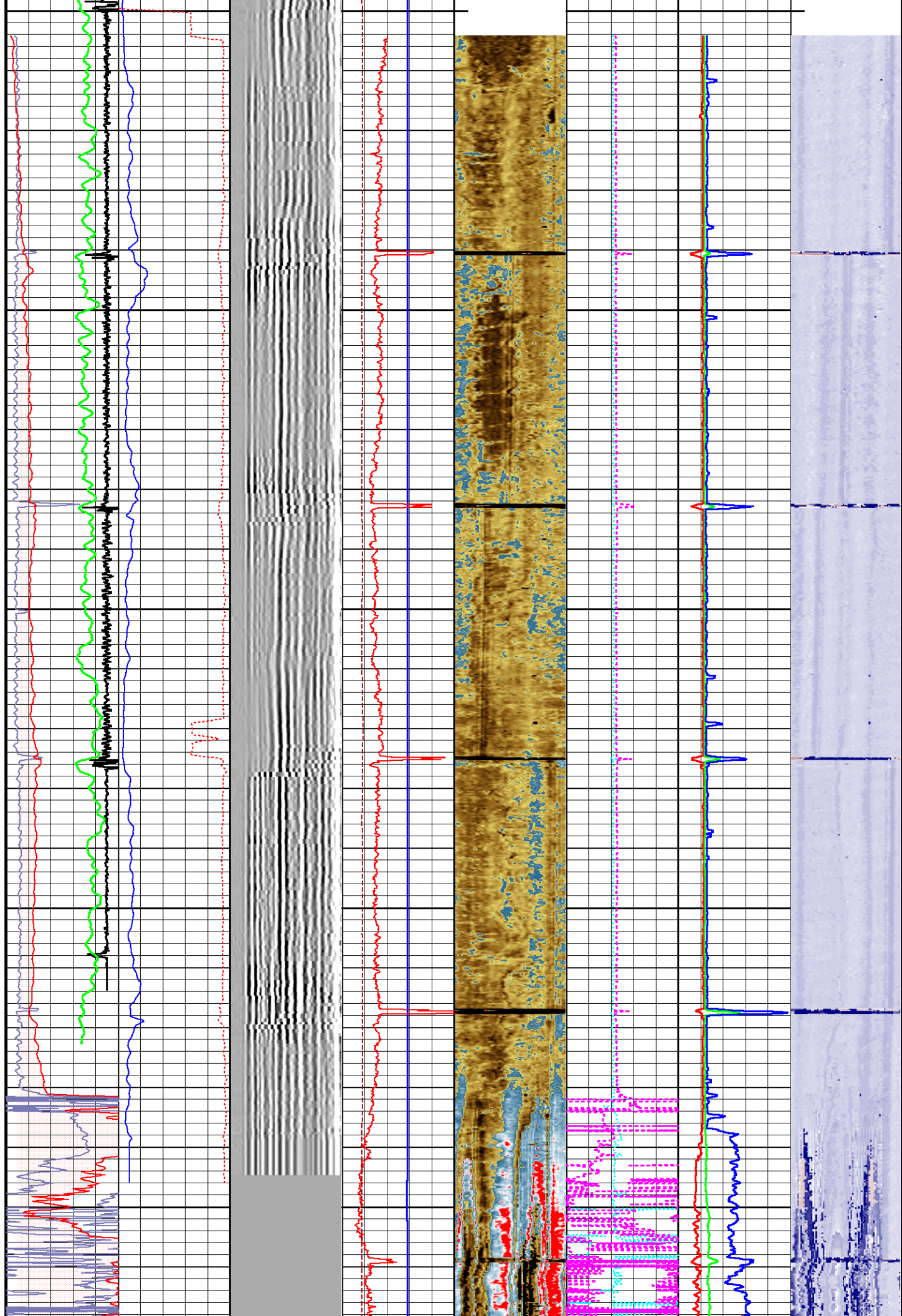
Recorded on 28-JUN-2018 13:10

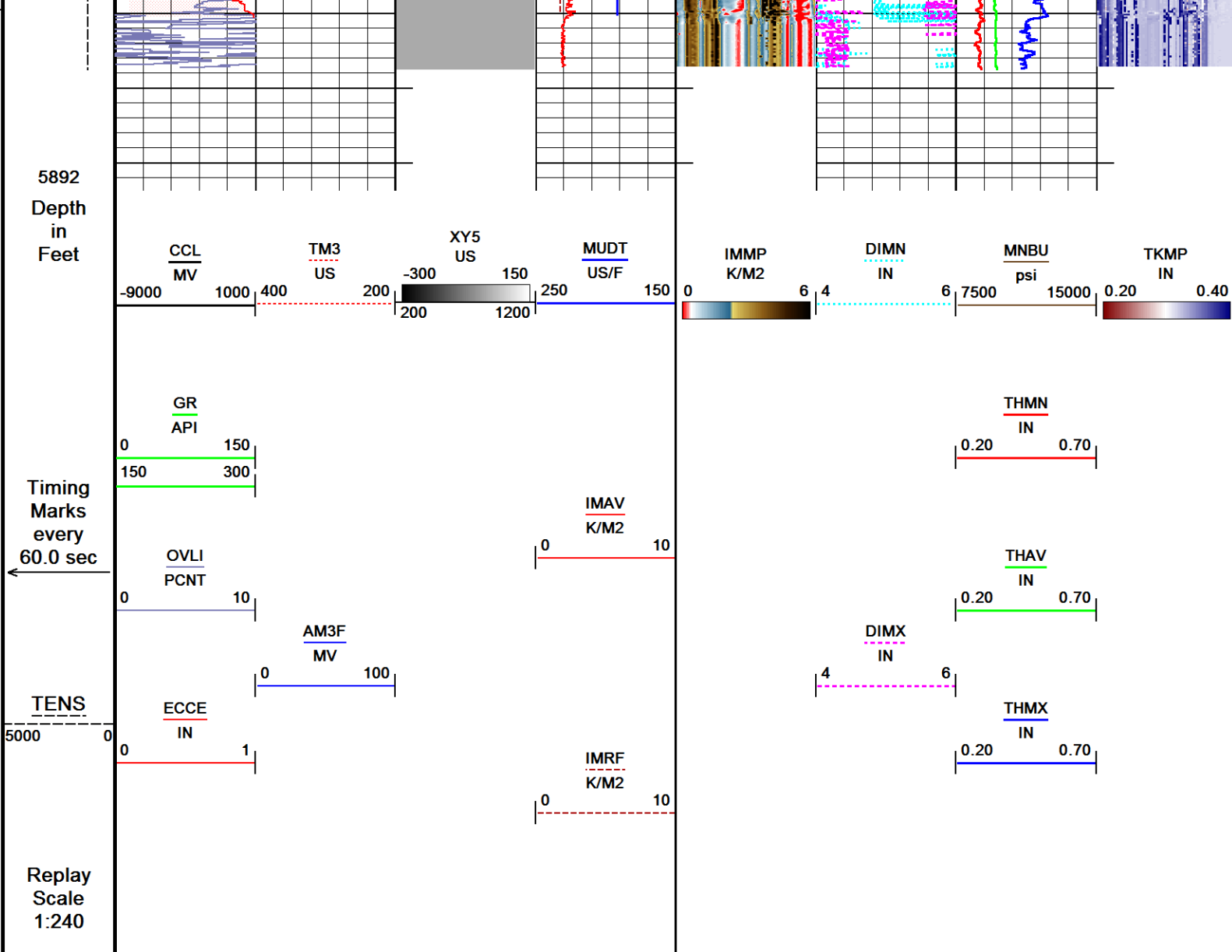
System Versions: Logged with 18.01.5248 Processed with 18.01.5248 Plotted with 18.01.5248





5650  
5700  
5750  
5800  
5850





Depth Based Data - Maximum Sampling Increment 2.5cm  
 Filename: C:\LOGS\BONANZA CREEK\STATE NORTH PLATTE J24-F21-26HNC REPEAT PASS\_004.dta  
 System Versions: Logged with 18.01.5248 Processed with 18.01.5248 Plotted with 18.01.5248  
 Plotted on 28-JUN-2018 14:16  
 Recorded on 28-JUN-2018 13:10

↑ REPEAT PASS ↑

SHOP AND FIELD CALIBRATIONS

C:\LOGS\BONANZA CREEK\STATE NORTH PLATTE J24-F21-26HNC MAIN PASS\_003.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 Serial No: 135  
 Calibrator No:

Background	Calibrator	Standard	Units
0.0	392.5	140.0	CPS

Delta Counts Per Sec: 392.5 CPS/API = 2.804

HBB Field calibration HBB-AB 162



## High Resolution Borehole Sonic Amplitude Field Calibration

Tool Type	HBB-AB	Serial No	162
		Free Pipe Depth	

Sensor	Description	Standard(mV)	Measured(mV)
AMP 3 FT	100 % Bond	0.00	0.00
	Free Pipe	72.00	441.82
AMP 5 FT	100 % Bond	0.00	0.00
	Free Pipe	72.00	87.30

HBB Constants HBB-AB 162

Last Edited on 28-JUN-2018 12:54

Min Ampl 100% Bond	3.06 MV
Max Ampl 0% Bond	71.77 MV
Cement Cmpr Strength	1000 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 124

Field Calibration on 05-JUN-2018 12:50

Ultrasonic Radial Scanner Before Calibration

Tool Type	USH-AB	Serial No	124
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	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 124

Last Edited on 28-JUN-2018 12:54

\*\*\* 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	3.70
ZMud Cal Area Ratio	4.00

**\*\* Constants \*\***

Thickness calculated from	Tool
Radius Offset	-0.51
Mud slowness Offset	0.00 US/F
Mud Chamber Equation	Mud Plate
Z_mud at Calibration	1.65 K/M2
Z_mud Outside	1.75 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:\LOGS\BONANZA CREEK\STATE NORTH PLATTE J24-F21-26...\STATE NORTH PLATTE J24-F21-26HNC MAIN PASS\_003.dta

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

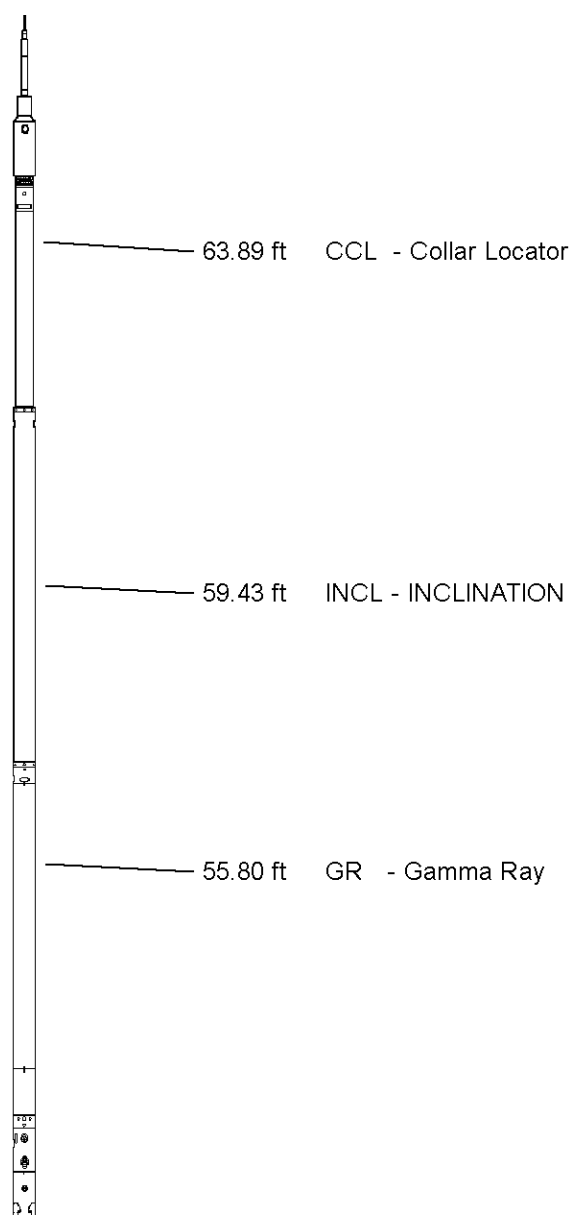
Crossover 1-pin to 55-pin for WCC-D  
XOV-WC 119 LG: 1.05 ft WT: 15.4 lb OD: 3.386 in

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 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: 3.390 in

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



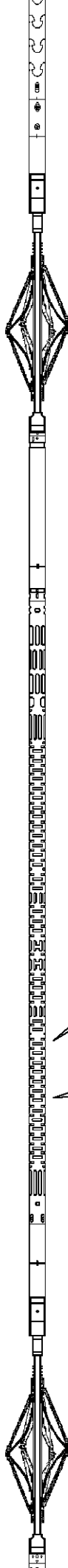


55 pin Roller Centralizer  
CEN-XA 196 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

Compensated Sonic  
HBB-AB 162 LG: 15.16 ft WT: 229.3 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



Flexible Joint, URS, 60 ft in  
FTP-FA 132 LG: 4.35 ft WT: 90.4 lb OD: 3.386 in

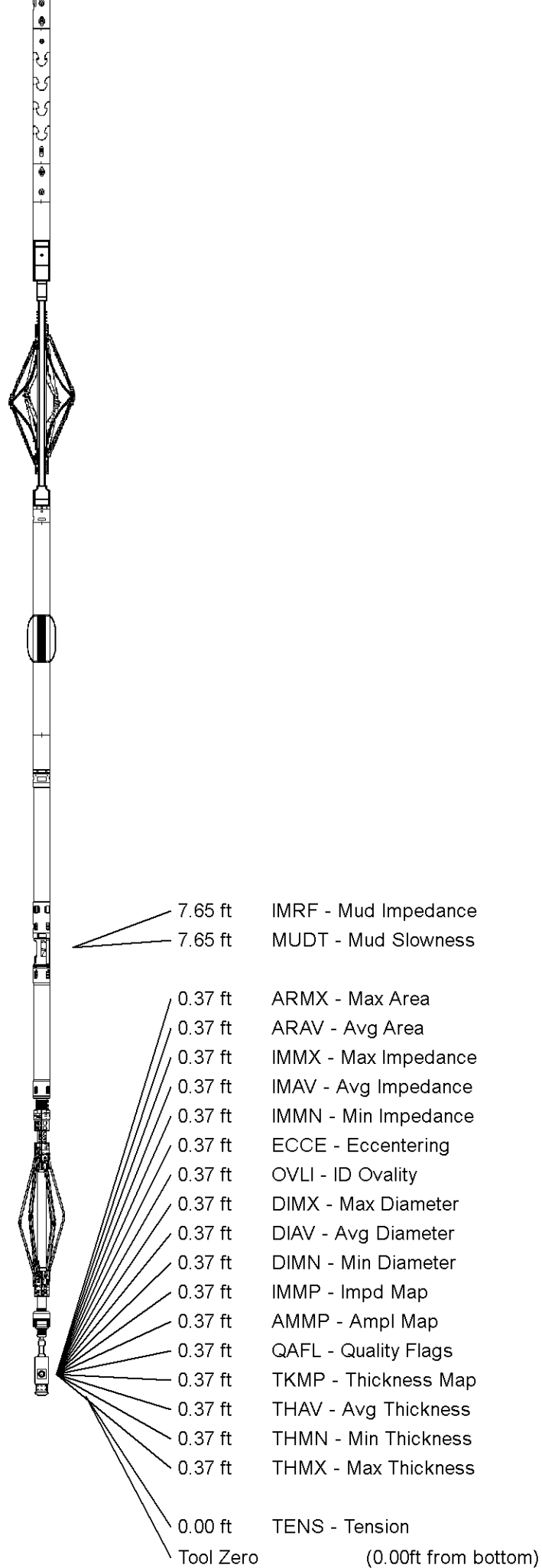
55 pin Roller Centralizer  
CEN-XA 213 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

URS Electronics Cartridge  
UCC-AA 193 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 124 LG: 1.03 ft WT: 13.2 lb OD: 3.386 in

Total Length: 66.81 ft Weight: 1111.1 lb





COMPANY	BONANZA CREEK ENERGY
WELL	STATE NORTH PLATTE J24-F21-26HNC
FIELD	WATTENBERG
PROVINCE/COUNTY	WELD
COUNTRY/STATE	COLORADO

Elevation Kelly Bushing	4574	feet	Bottom Log Interval	5875.00	feet
Elevation Drill Floor	4574	feet	Depth Driller	11337.00	feet
Elevation Ground Level	4557	feet	Depth Logger	5875.00	feet



SECUREVIEW  
ULTRAVIEW / BONDVIEW  
LOG

**Weatherford®**