

Company: Crestone Peak Resources Operating LLC

Well: Sam #3F-25H-M166

Field: Wattenberg

County: Weld State: Colorado

Isolation Scanner  
Cement Evaluation  
VDL Wide

Weld	1363' FSL & 310' FWL		Elev.:	K.B.	5116.00 ft
Wattenberg	NWSW 25 1N 66W			G.L.	5093.00 ft
1363' FSL & 310' FWL	Lat/Long: 40.018757 / -104.733854			D.F.	5116.00 ft
Sam #3F-25H-M166	Permanent Datum:	Ground Level	Elev.:	5093.00 f	
Crestone Peak Resources Operating LLC	Log Measured From:	Kelly Bushing	23.00 ft	above Perm.Datum	
	Drilling Measured From:	Kelly Bushing			
	API Serial No.	Section:	Township:	Range:	
	05-123-46134	25	1N	66W	

Logging Date	15-Oct-2018		
Run Number	One		
Depth Driller	11879.00 ft		
Schlumberger Depth	6814.00 ft		
Bottom Log Interval	6814.00 ft		
Top Log Interval	60.00 ft		
Casing Fluid Type	Water		
Salinity			
Density	8.4 lbm/gal		
Fluid Level	8.00 ft		
BIT/CASING/TUBING STRING			
Bit Size	8.50 in		
From	2354.00 ft		
To	11879.00 ft		
Casing/Tubing Size	5.5 in		
Weight	20 lbm/ft		
Grade	N/A		
From	0.00 ft		
To	11879.00 ft		
Max Recorded Temperatures	179 degF		
Logger on Bottom	15-Oct-2018	16:15:00	
Unit Number	9108	Fort Morgan	
Recorded By	Alan Moreno		
Witnessed By	Keith Kershnik		

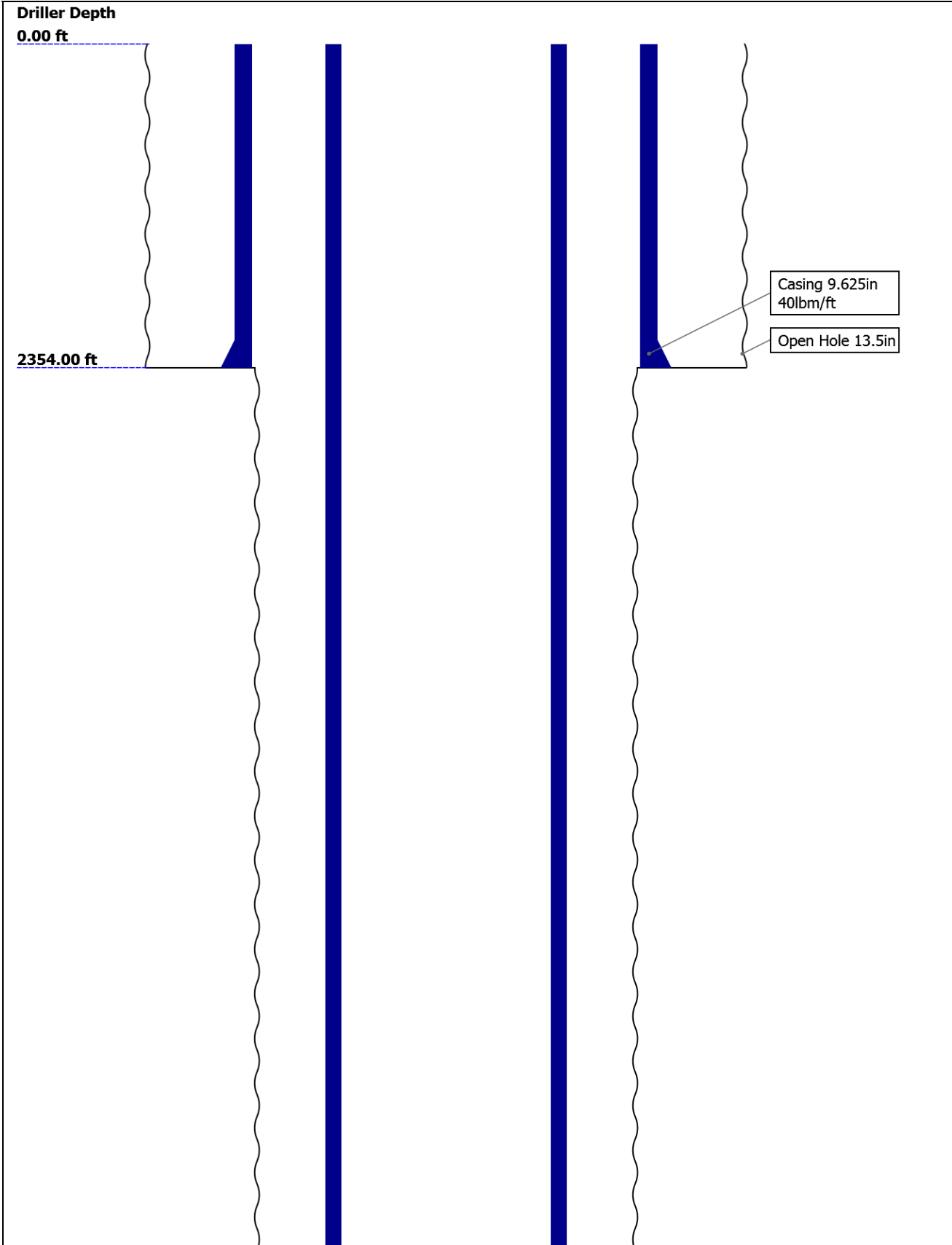
Disclaimer

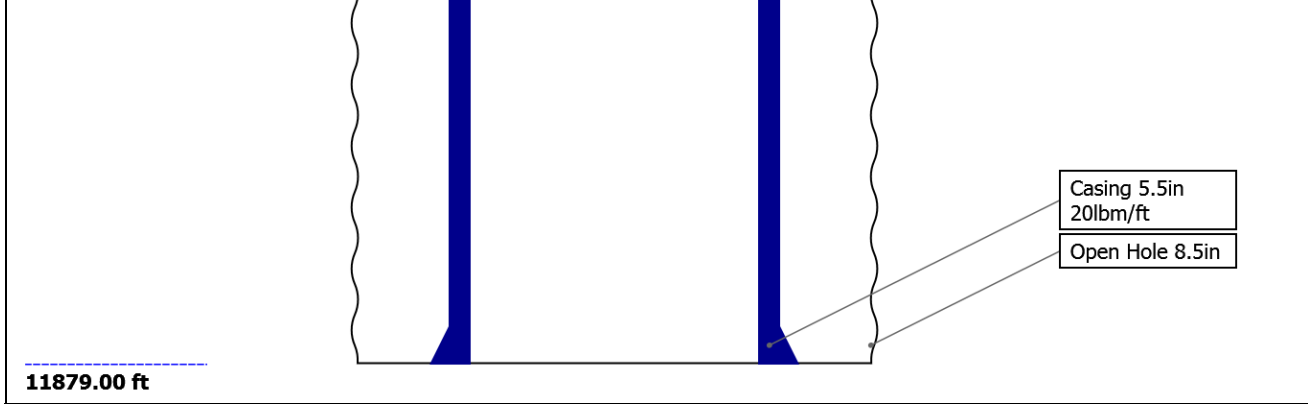
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Well Sketch





Borehole Size/Casing/Tubing Record

Bit						
Bit Size ( in )	13.5	8.5				
Top Driller ( ft )	0	2354				
Top Logger ( ft )	0	2354				
Bottom Driller ( ft )	2354	11879				
Bottom Logger ( ft )	2354	11879				
Casing						
Size ( in )	9.625	5.5				
Weight ( lbm/ft )	40	20				
Inner Diameter ( in )	8.835	4.778				
Grade	N/A	N/A				
Top Driller ( ft )	0	0				
Top Logger ( ft )	0	0				
Bottom Driller ( ft )	2354	11879				
Bottom Logger ( ft )	2354	11879				

Remarks and Equipment Summary

One: Toolstring				One: Remarks	
<b>Equip name</b>	<b>Length</b>	<b>MP name</b>	<b>Offset</b>	Toolstring ran as per tool sketch	
LEH-QT	30.73			5" gemcos and Houma kit used for centralization	
LEH-QT				All passes ran under 0 PSI	
<b>EDTC-B</b>	<b>27.24</b>			10deg 6" resolution used for Main and Repeat passes	
EDTH-B				lead: 12.5ppg	
EDTG-A				Tail: 13.5ppg	
EDTC-B				Data affected by high deviation at bottom	
<b>AH-184[2]</b>	<b>20.74</b>				
<b>AH-184[1]</b>	<b>18.74</b>				
<b>USIT-E</b>	<b>16.74</b>				
ECH-MFA					
USAC-A					
USIS-A					
USSC-B					
IBCS-A					
EAP-GENC					

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Depth Summary			
	One		
Depth Measuring Device			
Type	IDW-B		
Serial Number	6455		
Calibration Date	27-Jul-2018		
Calibrator Serial Number	57		
Calibration Cable Type	7-32ASXS		
Wheel Correction 1	-1		
Wheel Correction 2	1		
Tension Device			
Type	CMTD-B/A		
Serial Number	1703		
Calibration Date	29-Jul-2018		
Calibrator Serial Number	88310A		
Number of Calibration Points	10		
Calibration Root Mean Square Error	6		
Calibration Peak Error	9		
Logging Cable			
Type	7-32AS-XS		
Serial Number			
Length	21111.00 ft		
Conveyance Type	Wireline		
Rig Type	Crane		
One:Depth Control Parameters		Depth Control Remarks	
Log Sequence	First Log In the Well	All Schlumberger depth control procedures followed IDW used as primary depth control, Z-chart used as secondary	
Rig Up Length At Surface			
Rig Up Length At Bottom			
Rig Up Length Correction			

Stretch Correction  
Tool Zero Check At Surface

One

IBC VDL Wide 0 PSI

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[4]:Up	Up	47.47 ft	6819.08 ft	15-Oct-2018 4:15:37 PM	15-Oct-2018 5:56:03 PM	ON	8.25 ft	No

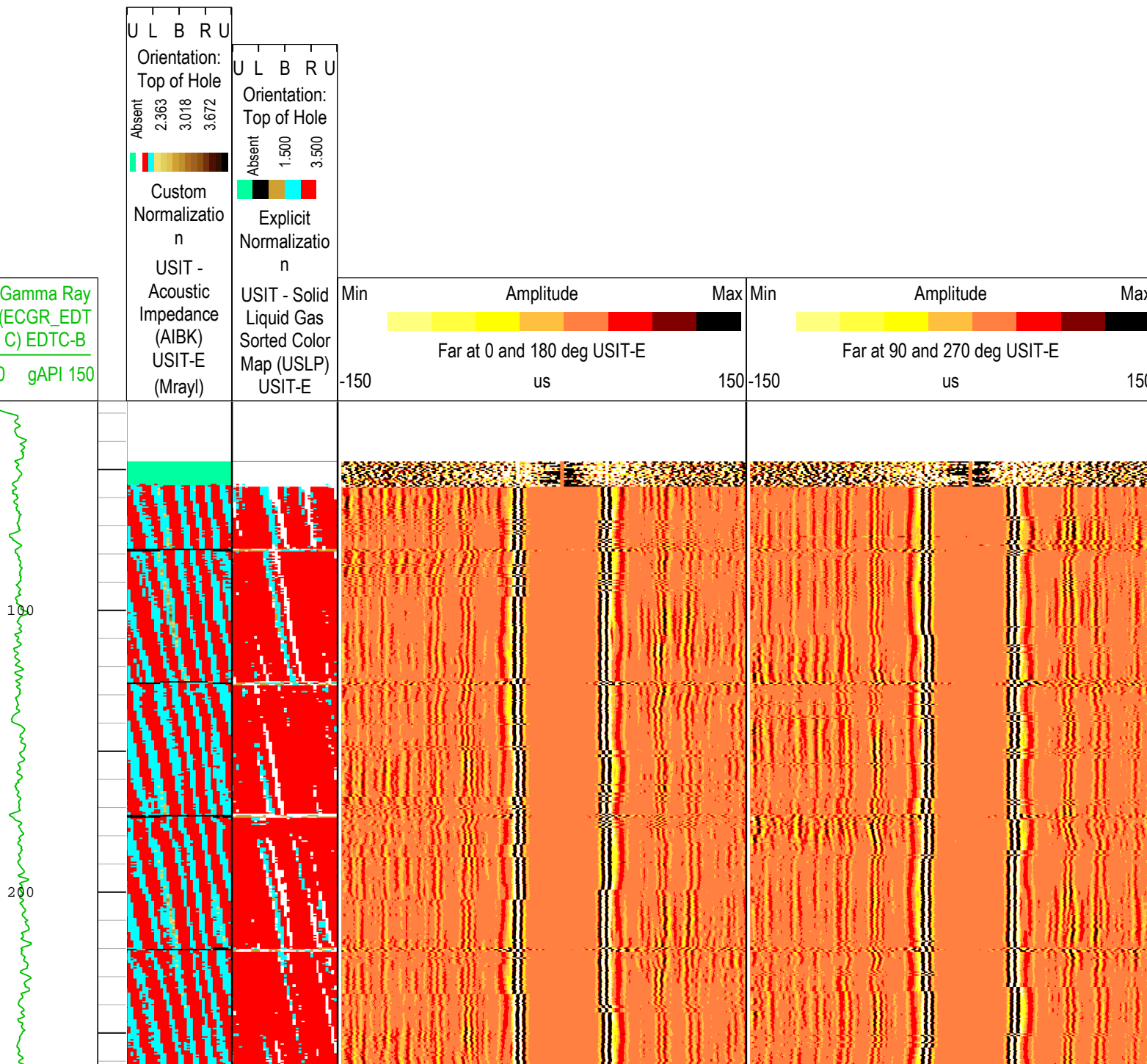
All depths are referenced to toolstring zero

Log

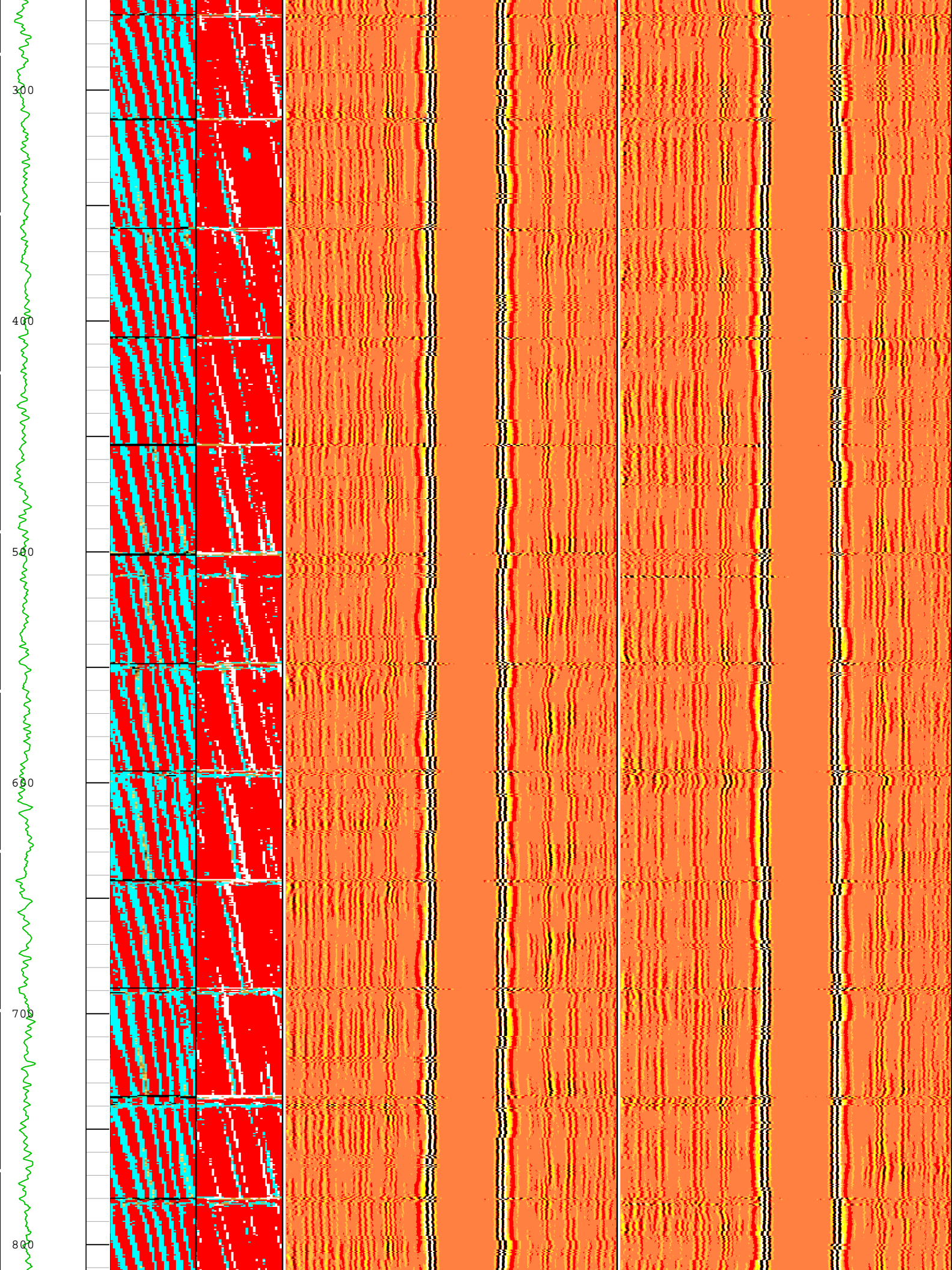
Company:Crestone Peak Resources Operating LLC      Well:Sam #3F-25H-M166  
One: Log[4]:Up:S006

Description: USI IBC VDL WIDE    Format: Log ( IBC VDL WIDE )    Index Scale: 2 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 15-Oct-2018 22:06:59

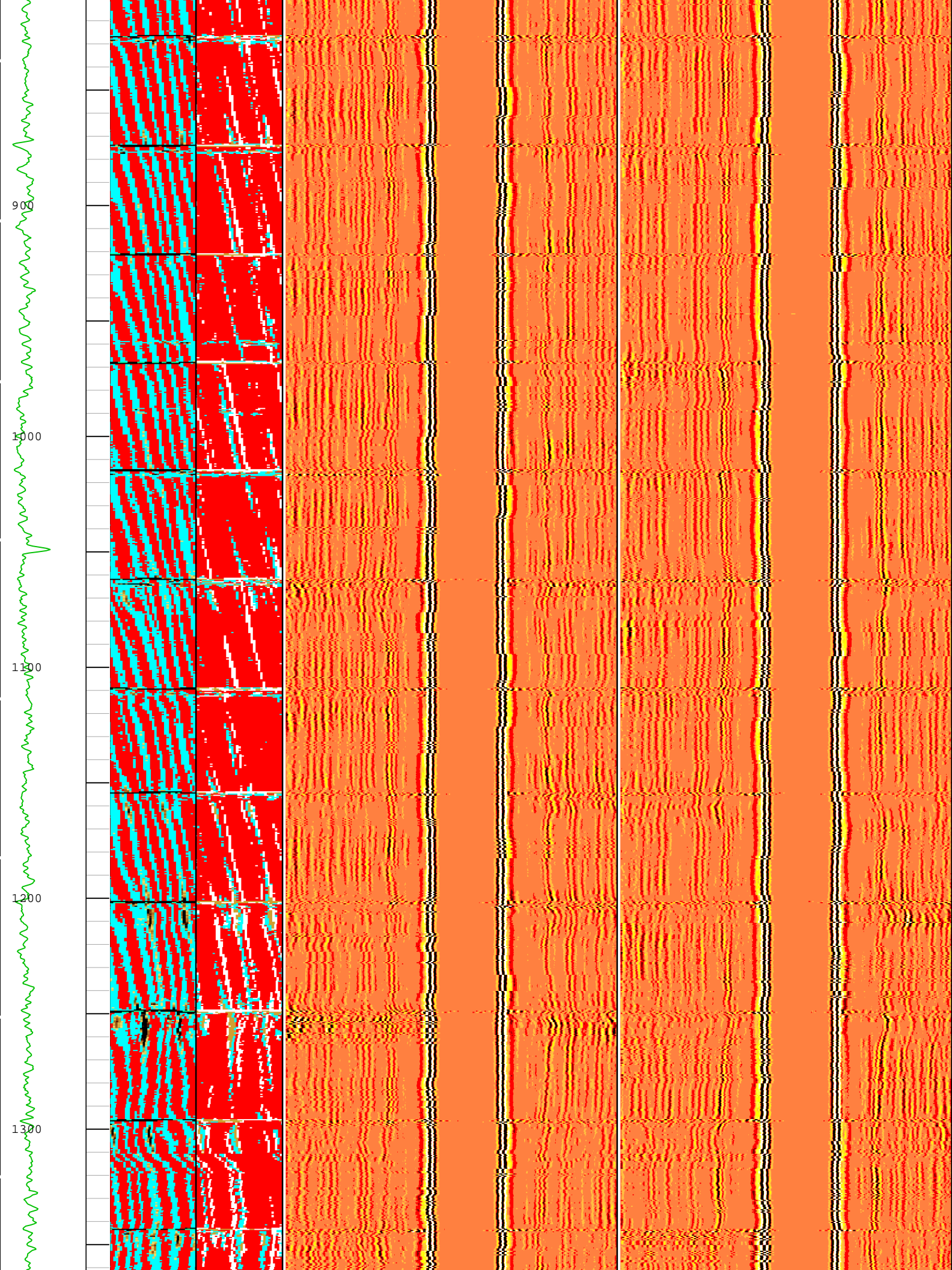
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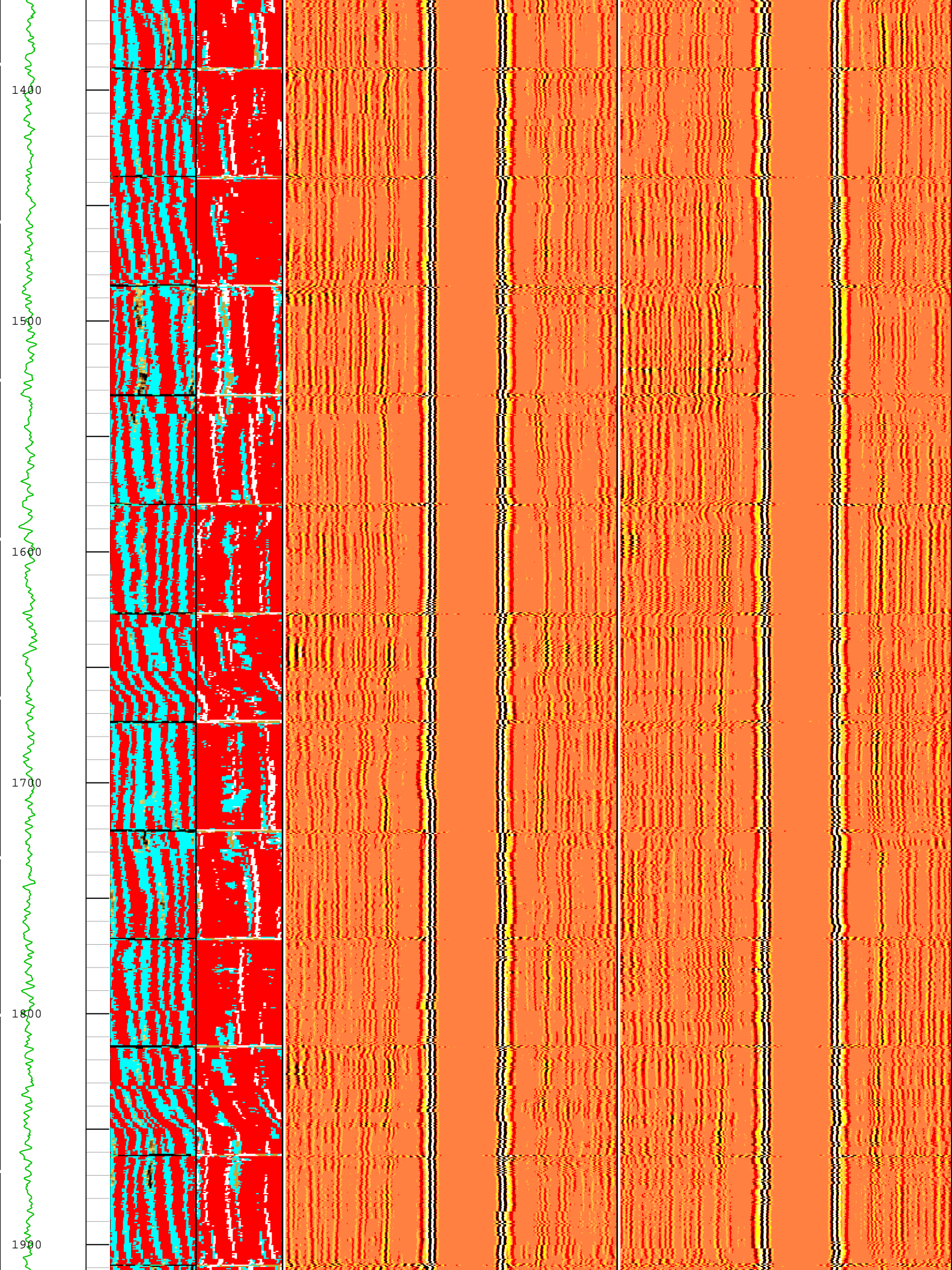




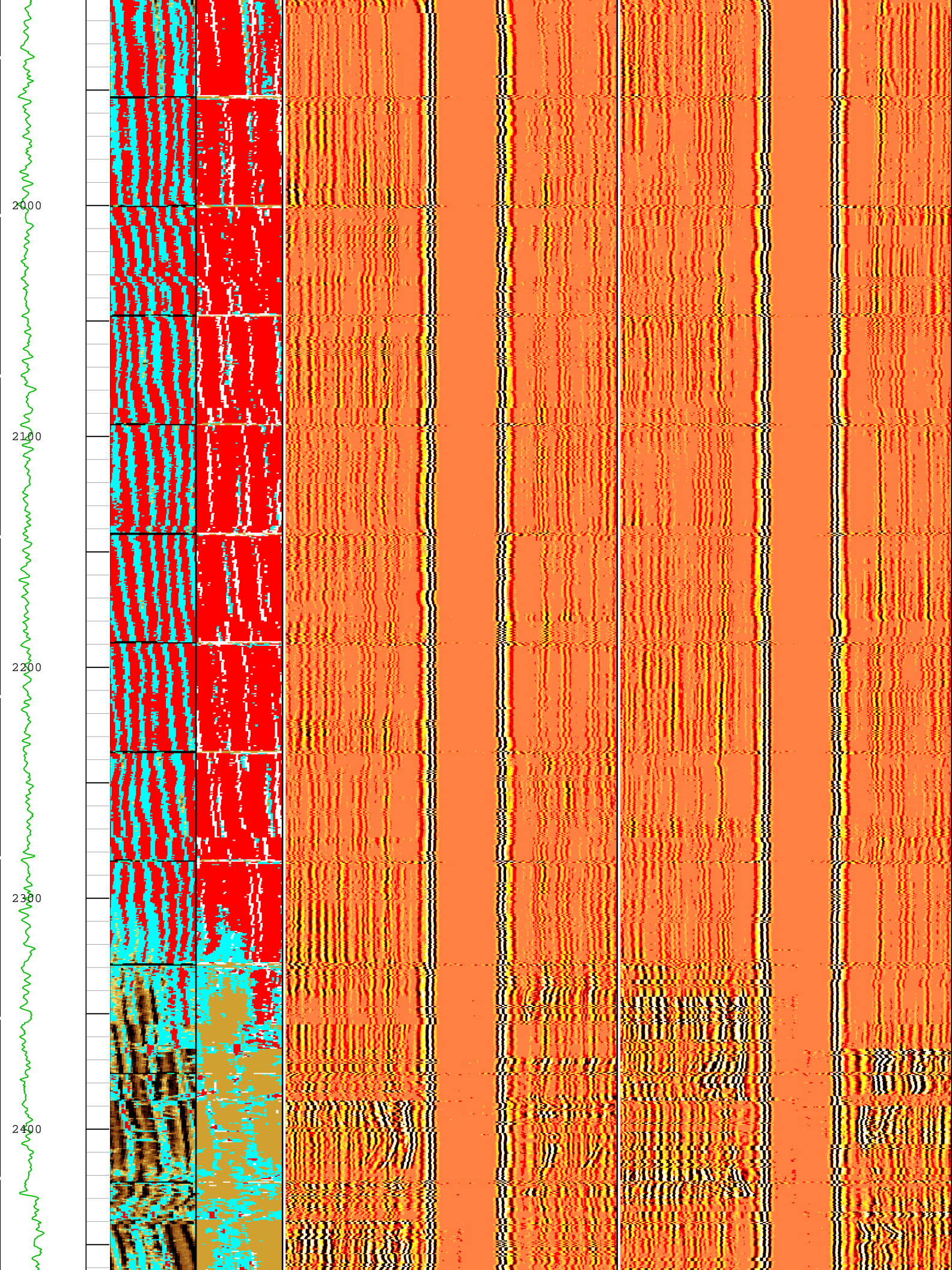




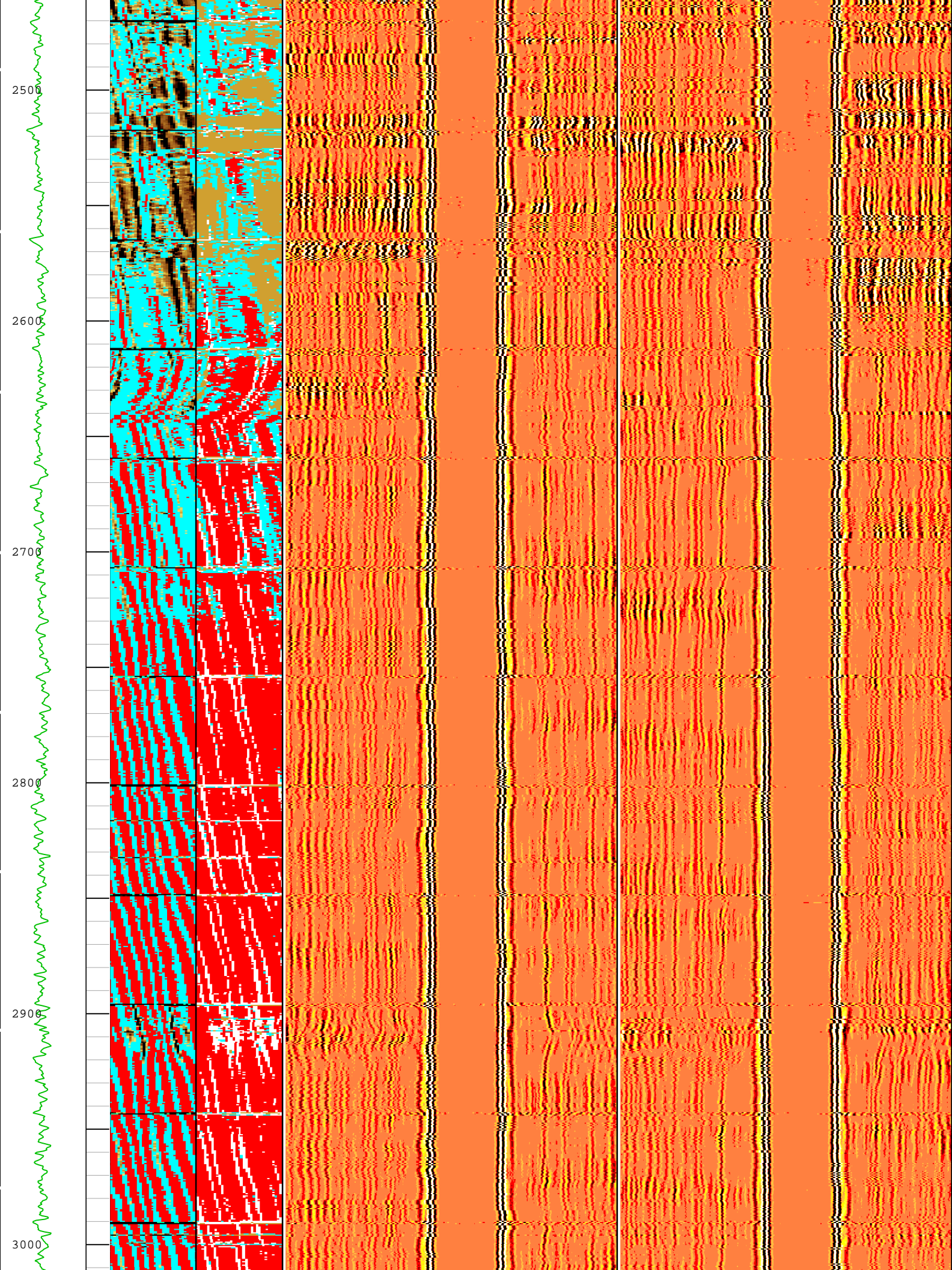




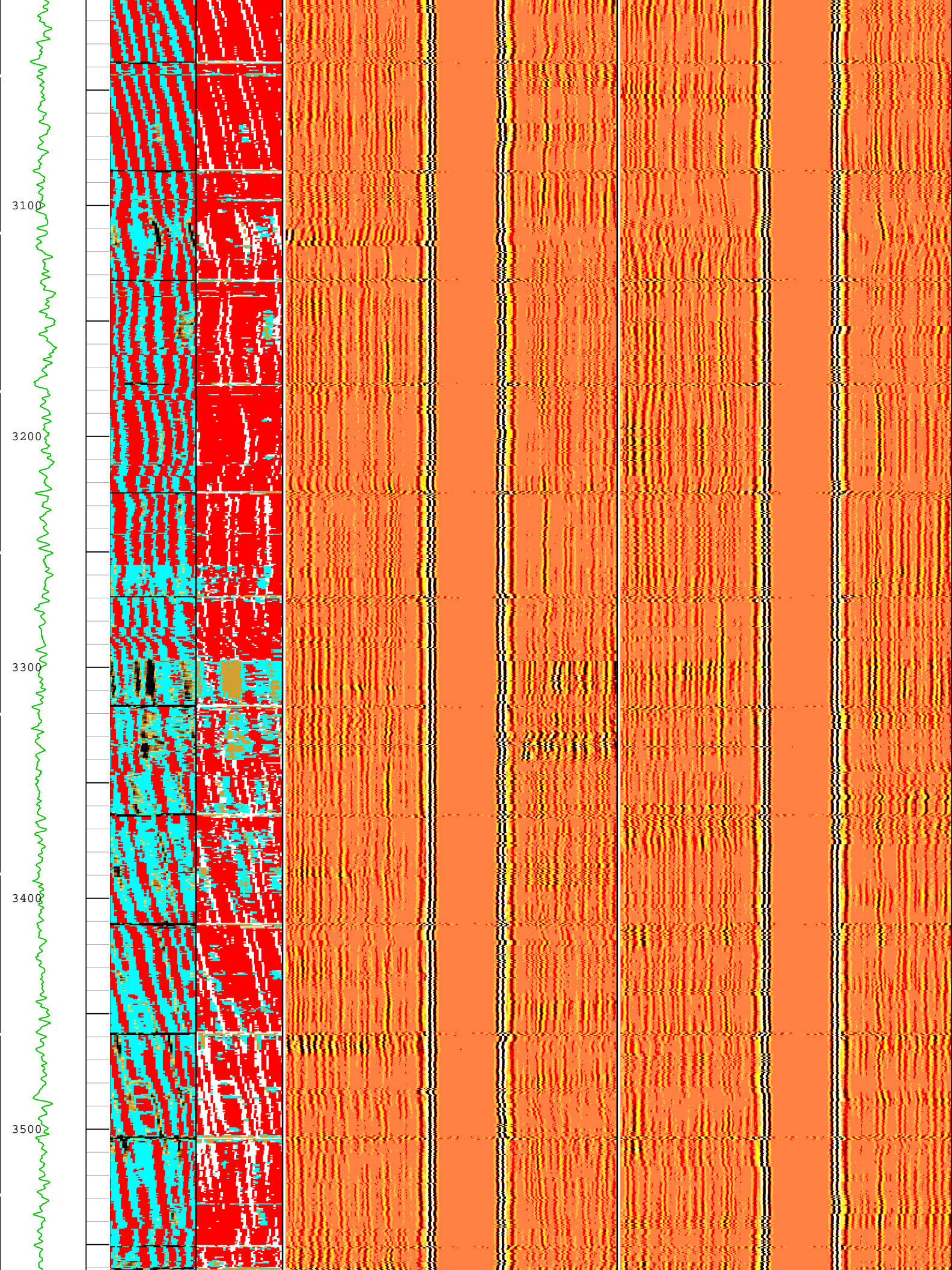




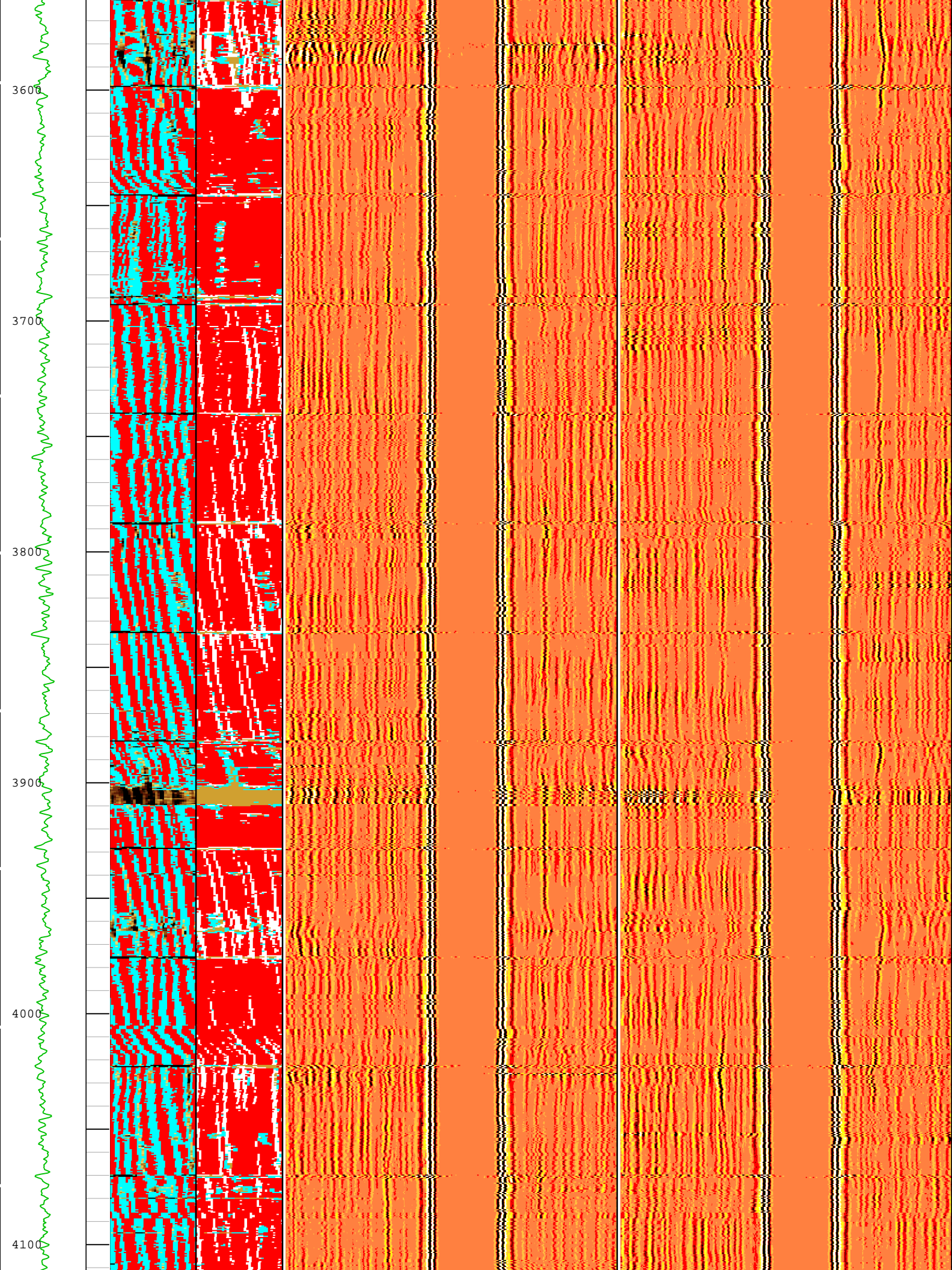




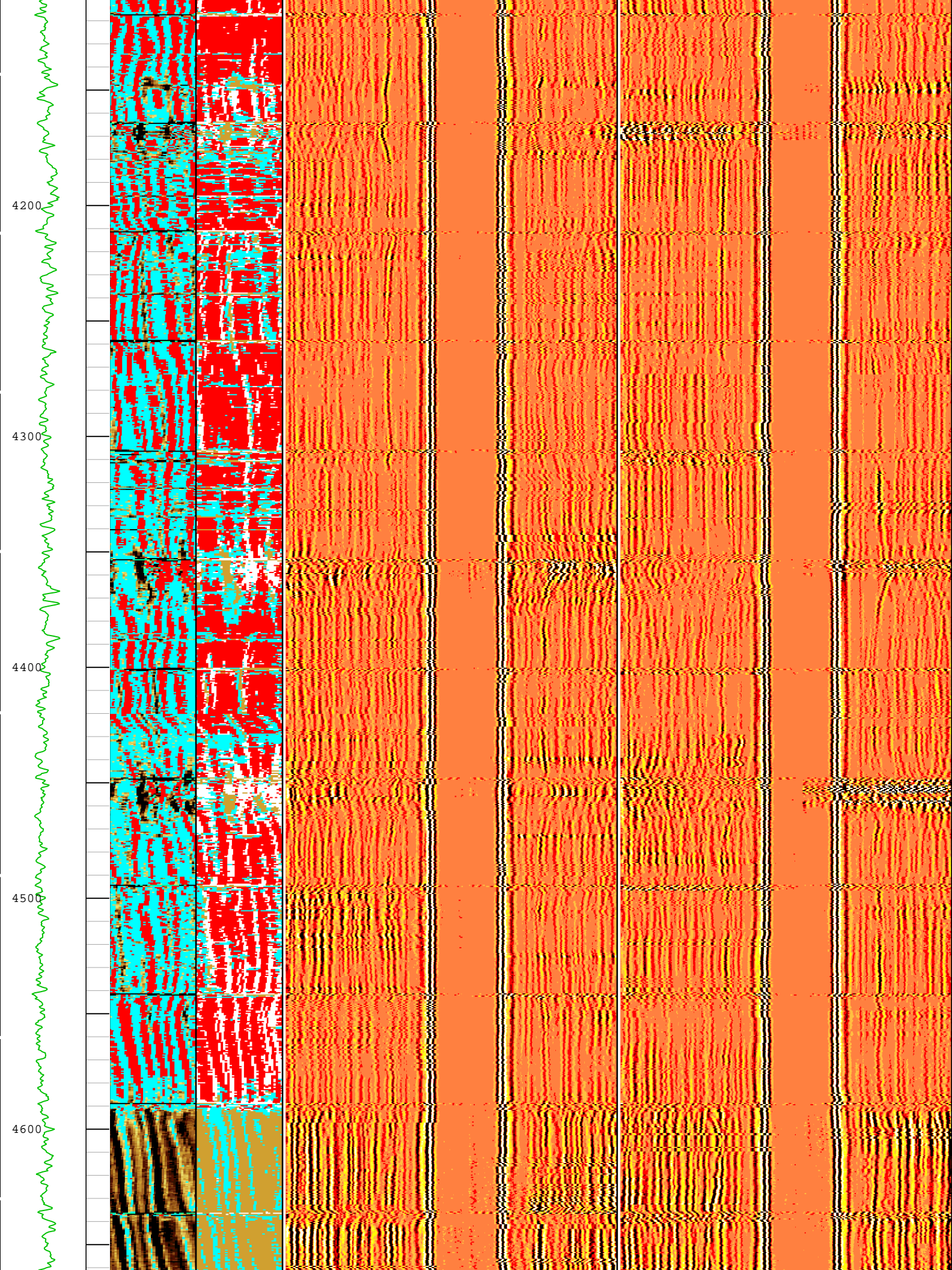




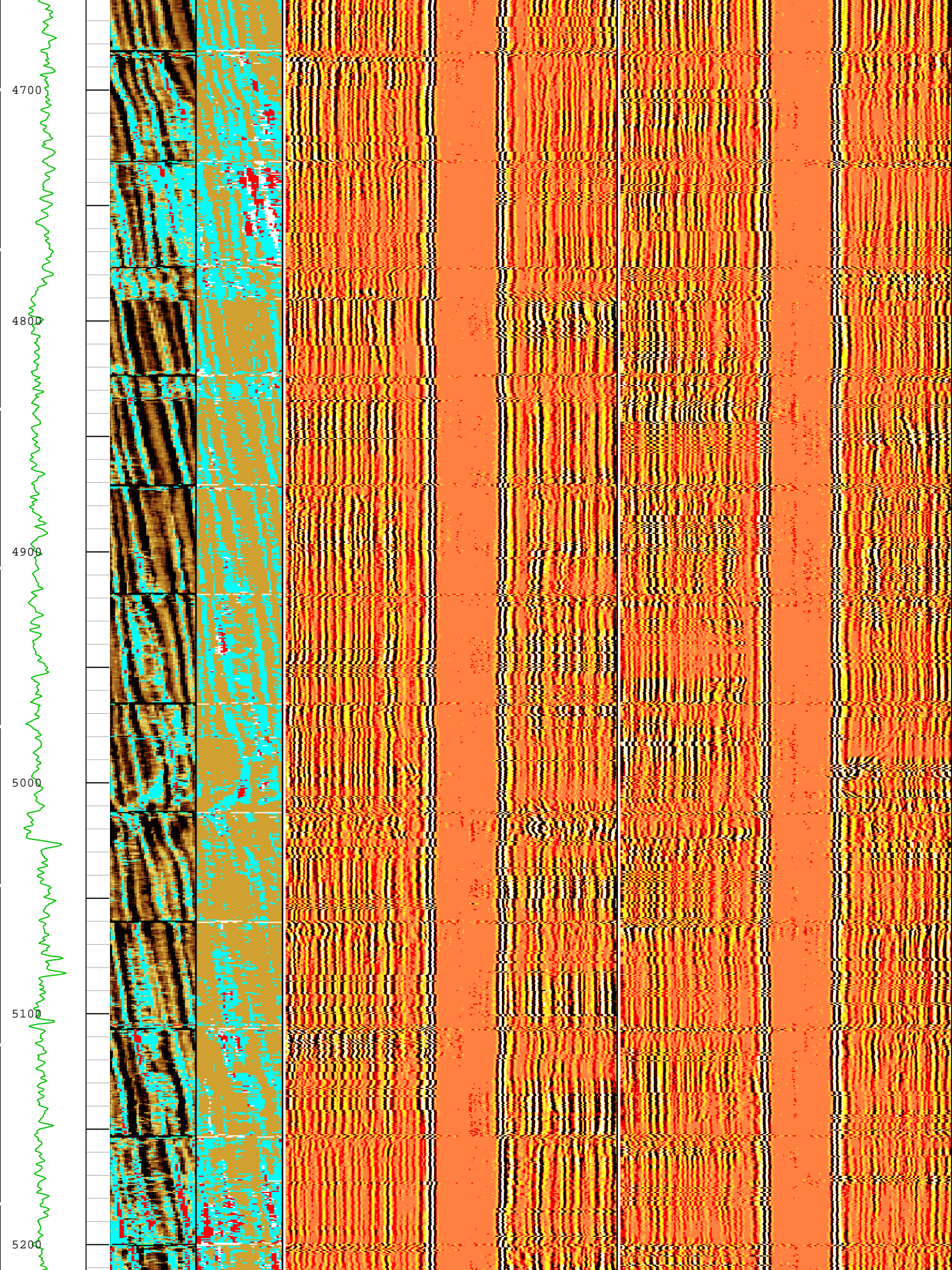




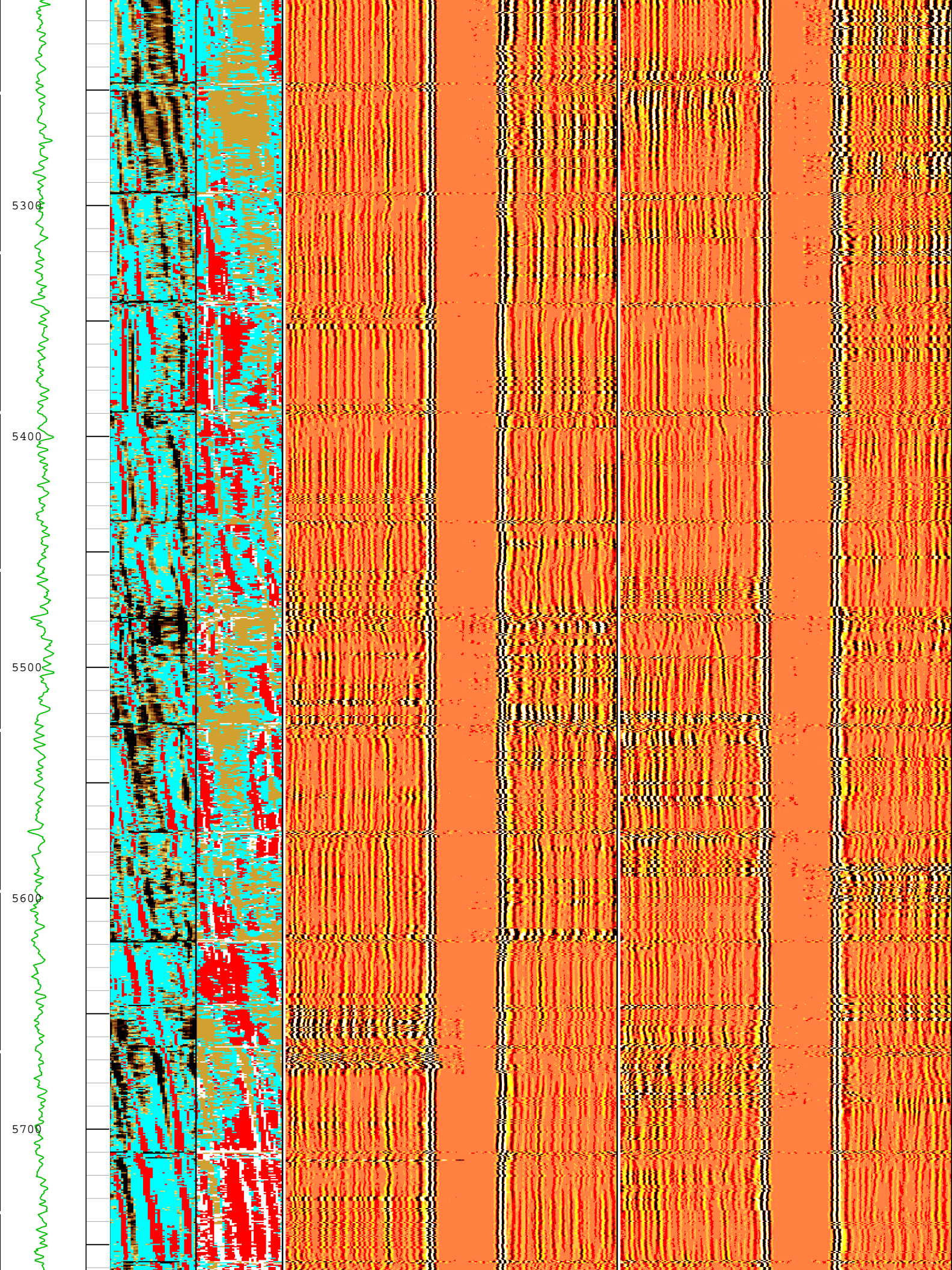




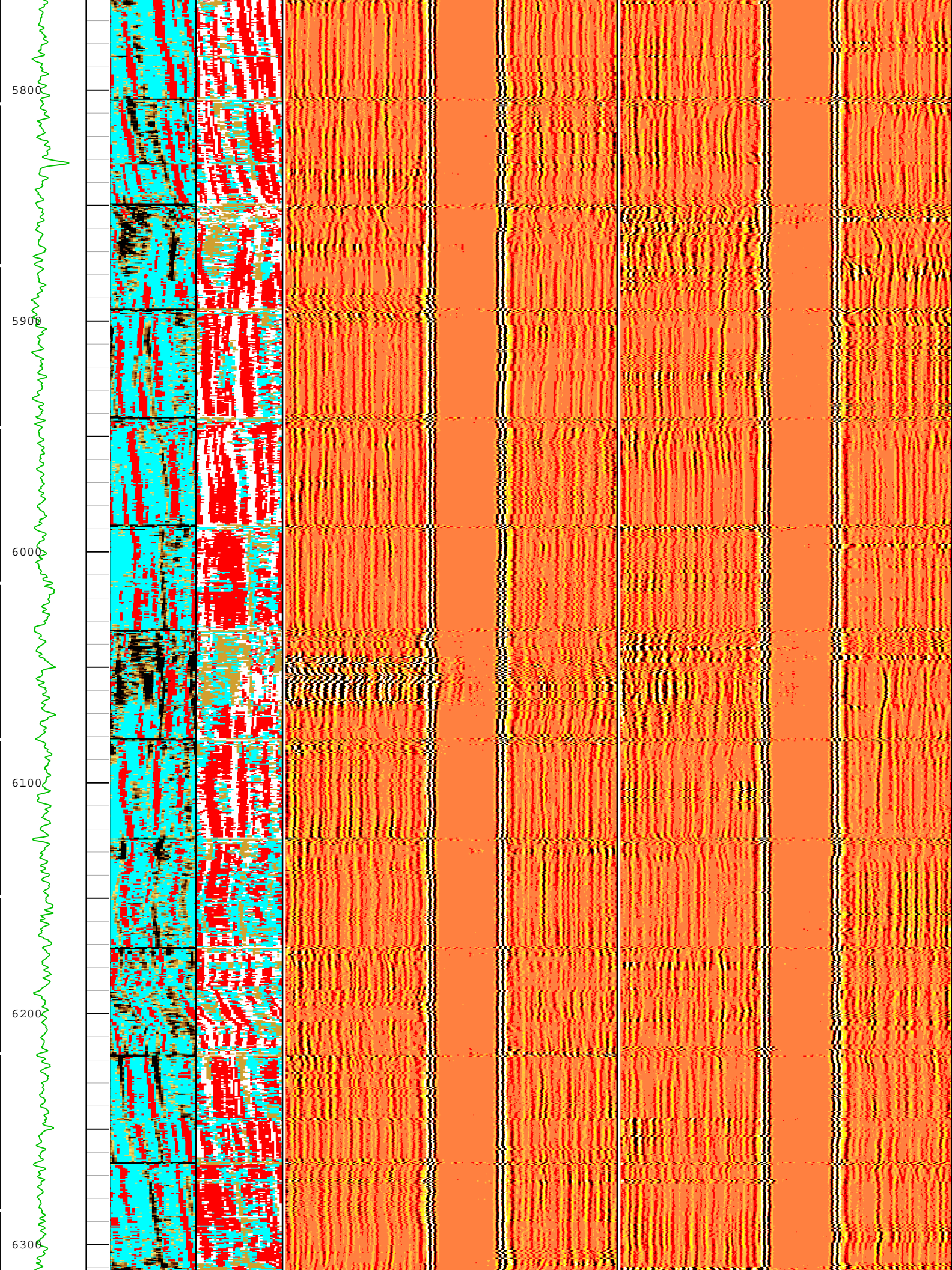




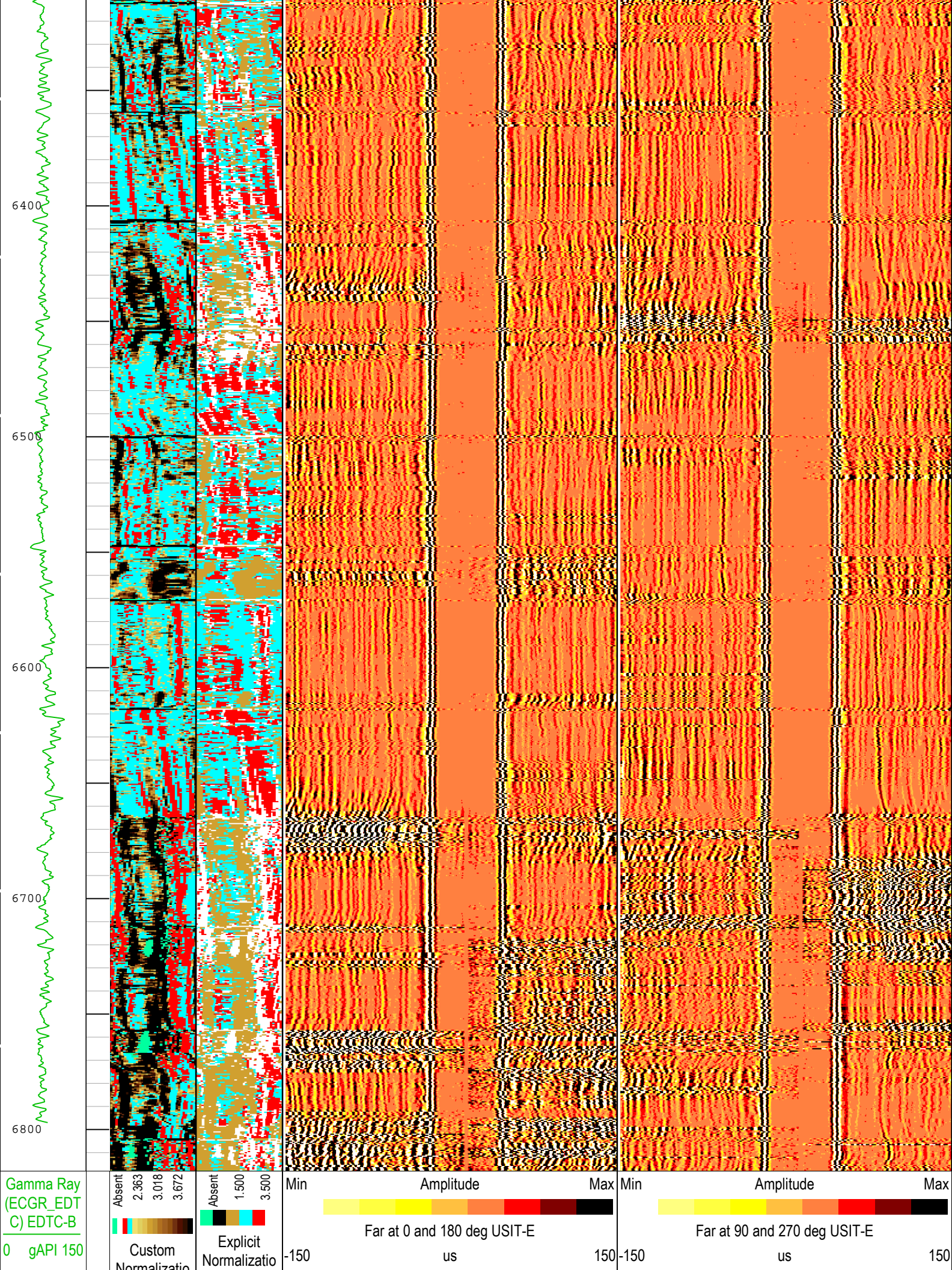














	<div> <div>Normalizatio</div> <div>n</div> <div>USIT -</div> <div>Acoustic</div> <div>Impedance</div> <div>(AIBK)</div> <div>USIT-E</div> <div>(Mrayl)</div> <div>Orientation:</div> <div>Top of Hole</div> <div>U L B R U</div> </div> <div> <div>n</div> <div>USIT - Solid</div> <div>Liquid Gas</div> <div>Sorted Color</div> <div>Map (USLP)</div> <div>USIT-E</div> <div>Orientation:</div> <div>Top of Hole</div> <div>U L B R U</div> </div>	
TIME_1900 - Time Marked every 60.00 (s)		
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