

**HALLIBURTON**

# CAST-M ADVANCED CEMENT EVALUATION

COMPANY KINDER MORGAN CO2 Co. L.P.  
WELL GOODMAN POINT #26  
FIELD MCELMO DOME  
COUNTY MONTEZUMA  
STATE CO

Location: SHL:2327'FNL & 241'FEL LONG: -108.755470

LAT: 37.392040

Elevations: K.B.: 6956' R.T.: 6956' G.L.: 6984'

Date Processed	11/24/2013	Logs Processed	ACE
Job Number	900915843	Date Logged	11/22/2013
Interval Processed	0'-7710'	Type Fluid In Hole	WATER
Processed By	D. CRAWFORD	Location	CO
Processed At	DENVER FRS		

--- COMPUTER PROCESSED PRODUCT ---

— Fold Here —

Service Ticket No.:		API Serial No.: 0508306703		PGM Version: XL v5.1	
DIRECTIONAL INFORMATION					
Maximum Deviation		deg. @		KOP	
Remarks:					
CCL-GR-CBLM-CASTM RAN IN COMBINATION.					
EXPECTED CASING 7" OD 32# 6.094" ID					
AND CASING 7" OD 29# 6.184" ID					
CORRELATED TO WEATHERFORD ARRAY INDUCTION RTAP DATED 28-OCT-13					
PACKER SET AT 7753'					
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES.					
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.					
HALLIBURTON					

THE MAXIMUM IMPEDANCE FOR FREE GAS : 0.38 RED  
THE MAXIMUM IMPEDANCE FOR LIQUID : 2.30 MEDIUM BLUE  
THE MAXIMUM IMPEDANCE FOR SOLID-LIQUID TRANSITION : 2.70 YELLOW  
THE MAXIMUM IMPEDANCE FOR LOW Z CEMENT : 3.85 LIGHT BROWN  
THE MAXIMUM IMPEDANCE FOR MED Z CEMENT : 5.00 DARK BROWN  
THE MINIMUM FOR HIGH Z CEMENT IS : 5.00 BLACK

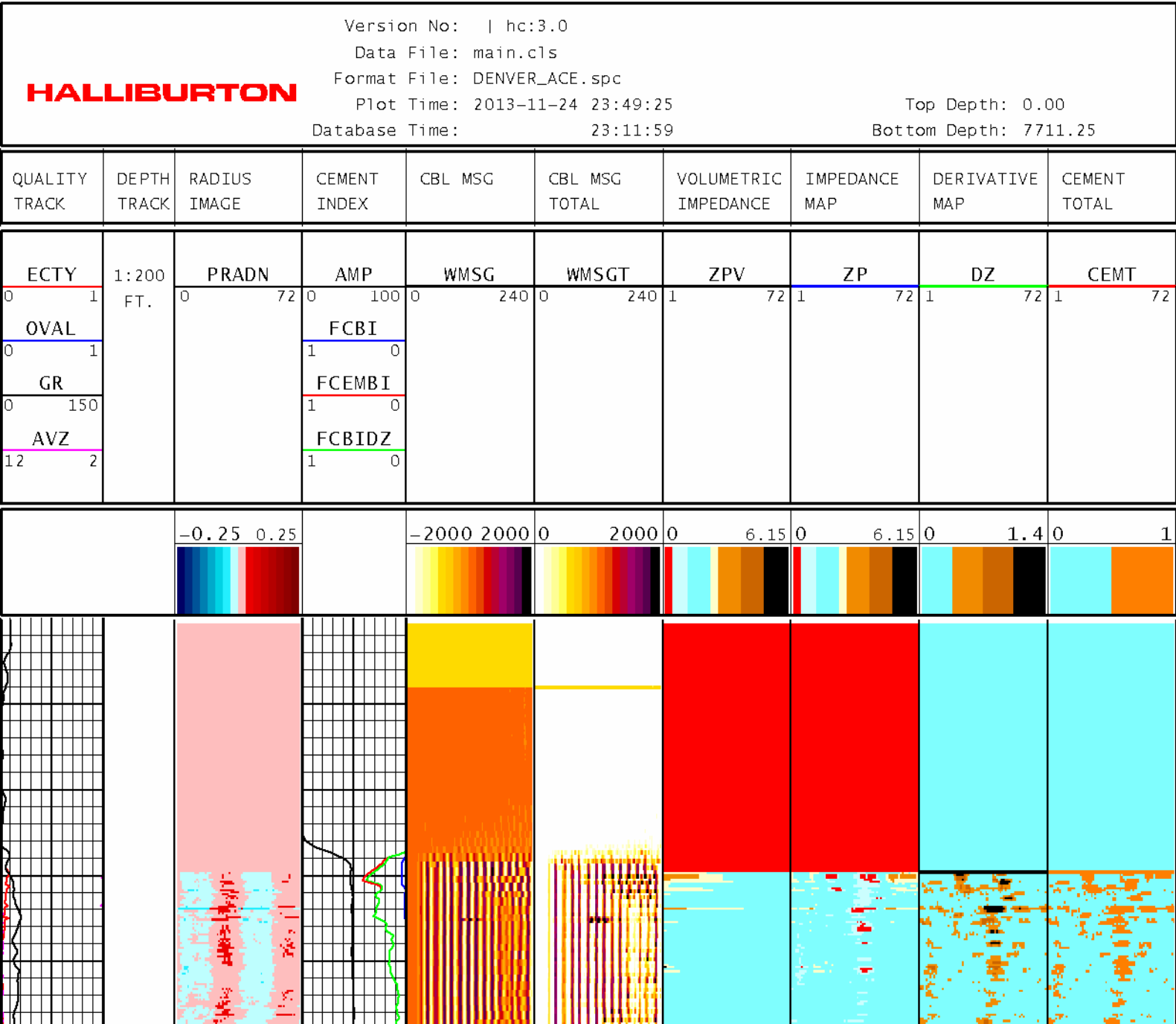
DERIVATIVE MAP

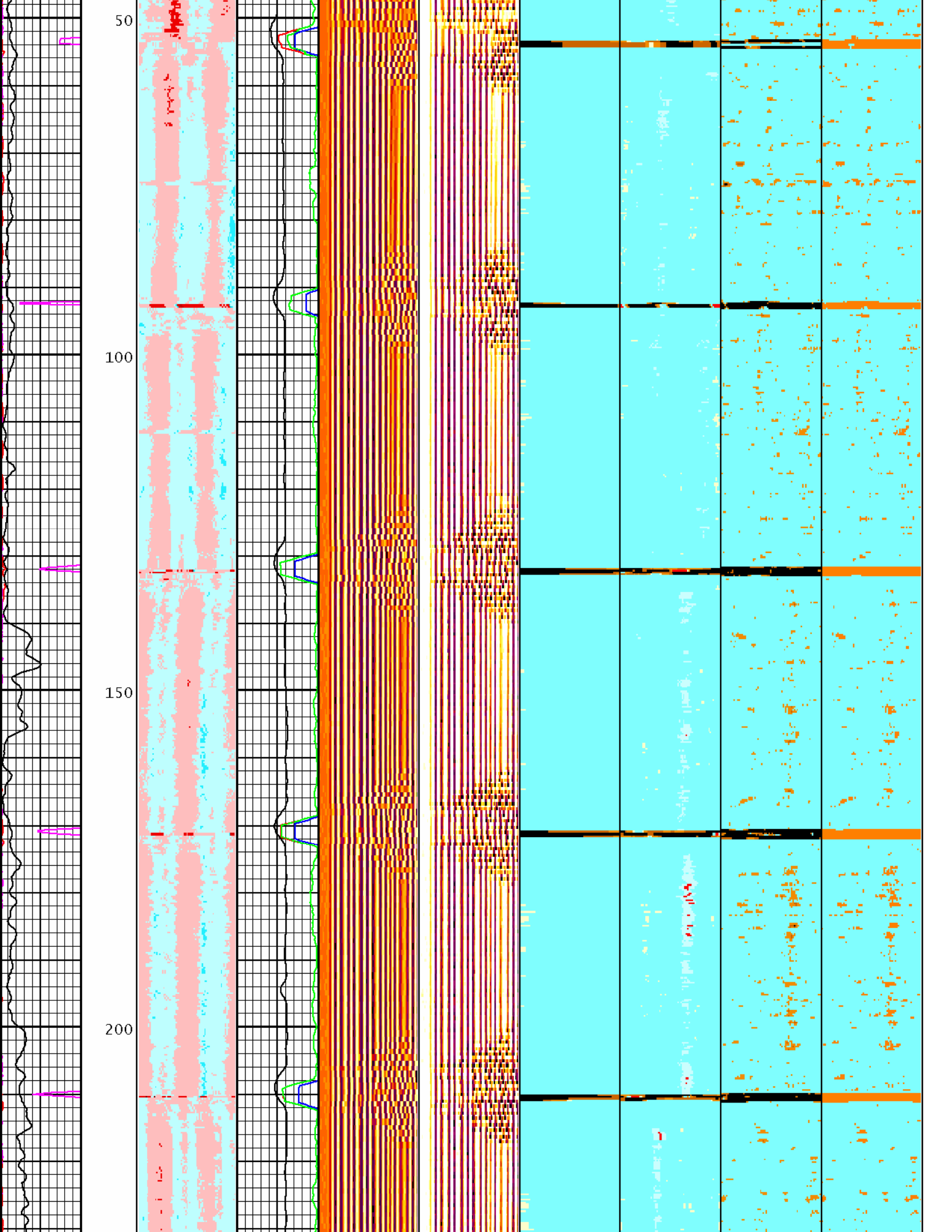
THE MAXIMUM DERIVATIVE FOR LIQUID : 0.30 MEDIUM BLUE  
THE MAXIMUM DERIVATIVE FOR LOW DERIVATIVE CEMENT : 0.60 LIGHT BROWN  
THE MAXIMUM DERIVATIVE FOR MED DERIVATIVE CEMENT : 0.90 DARK BROWN  
THE MINIMUM DERIVATIVE FOR HIGH DERIVATIVE CEMENT : 0.90 BLACK

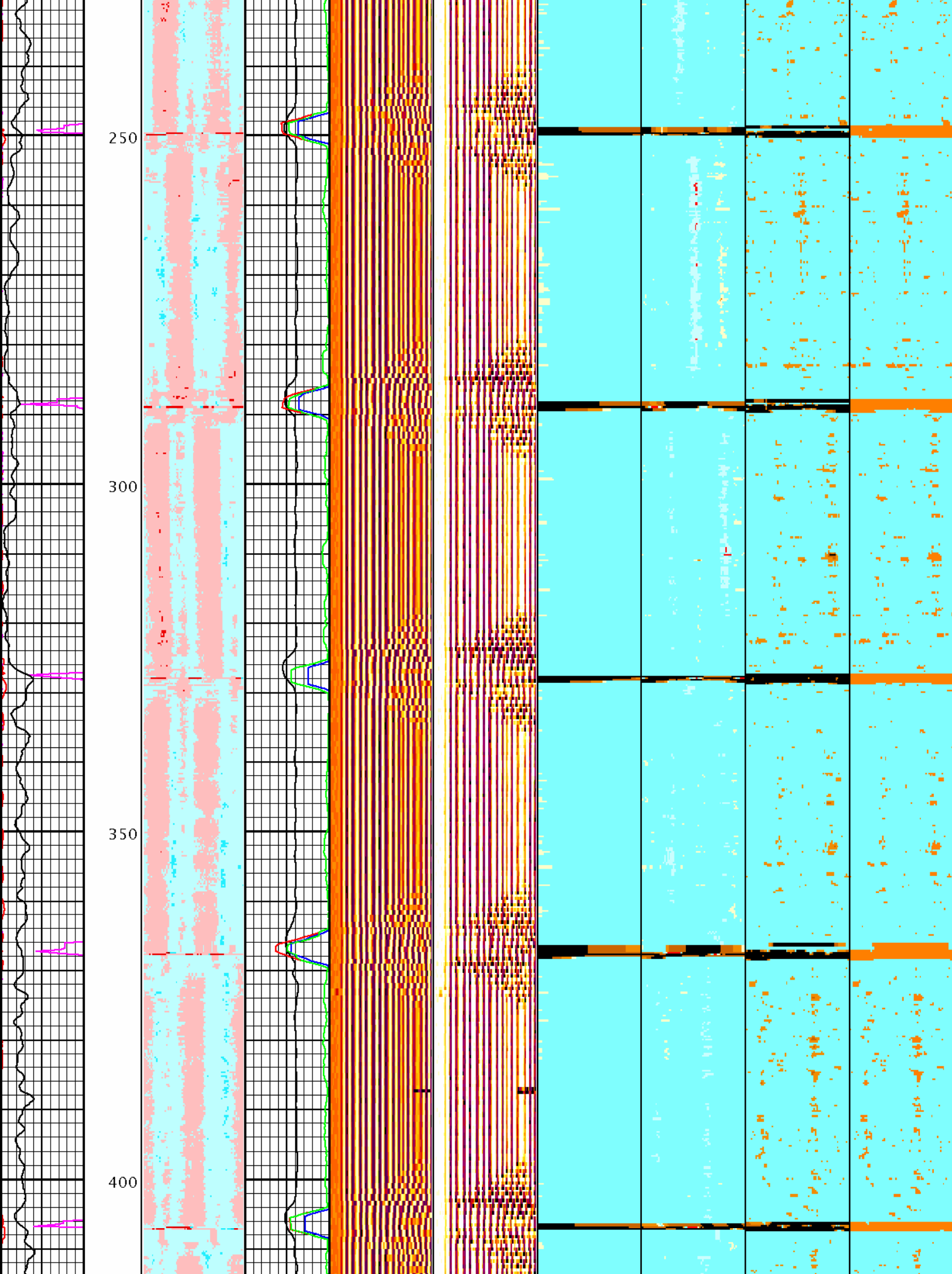
CEMENT MAP

FOR FLUIDS DZ IS LESS THAN DZWAT OF : 0.35  
AND ZP IS LESS THAN CEMPLIM OF : 2.70

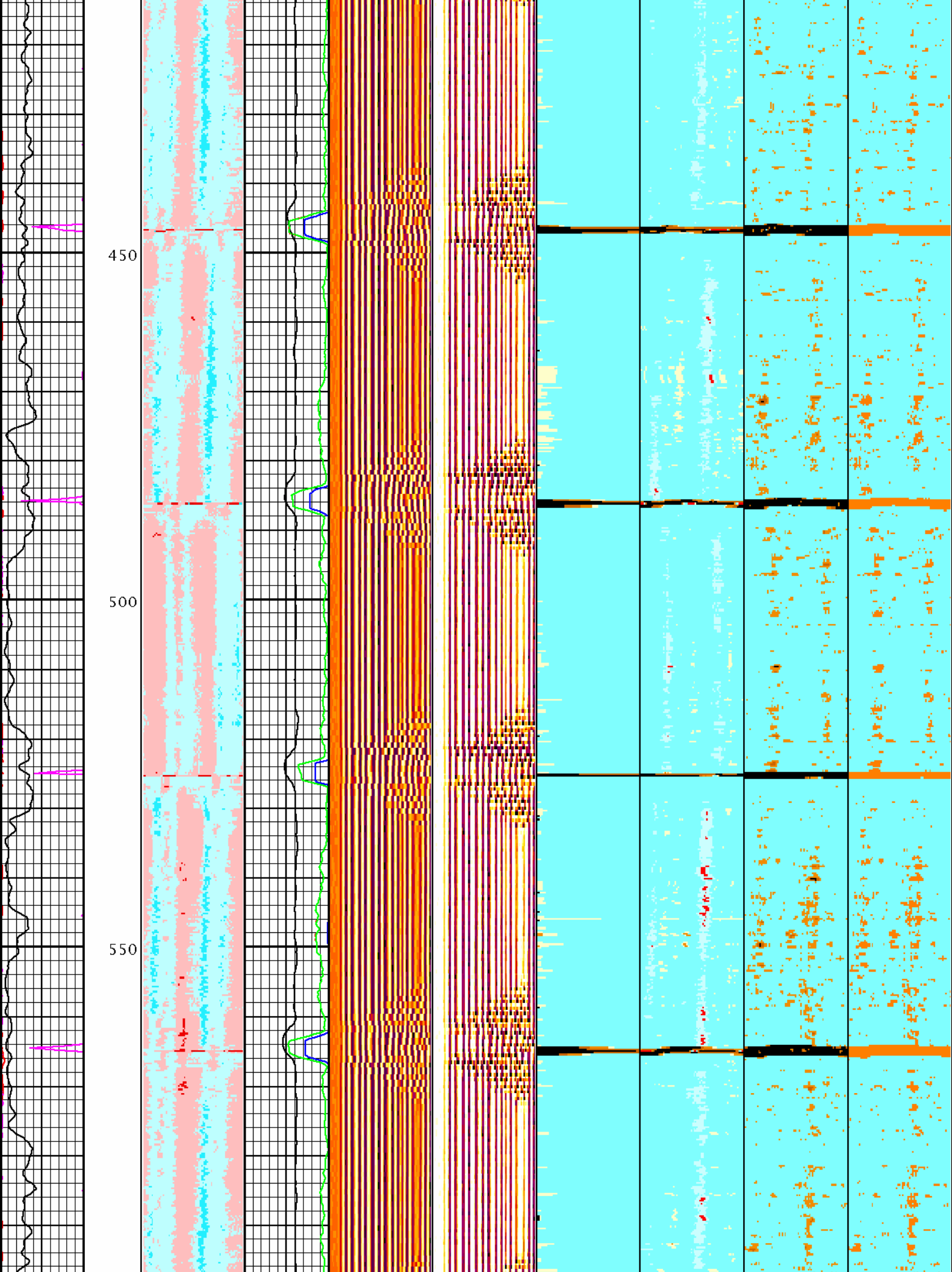
FLUIDS ARE MEDIUM BLUE WHILE SOLIDS OR CEMENTS ARE DARK BROWN

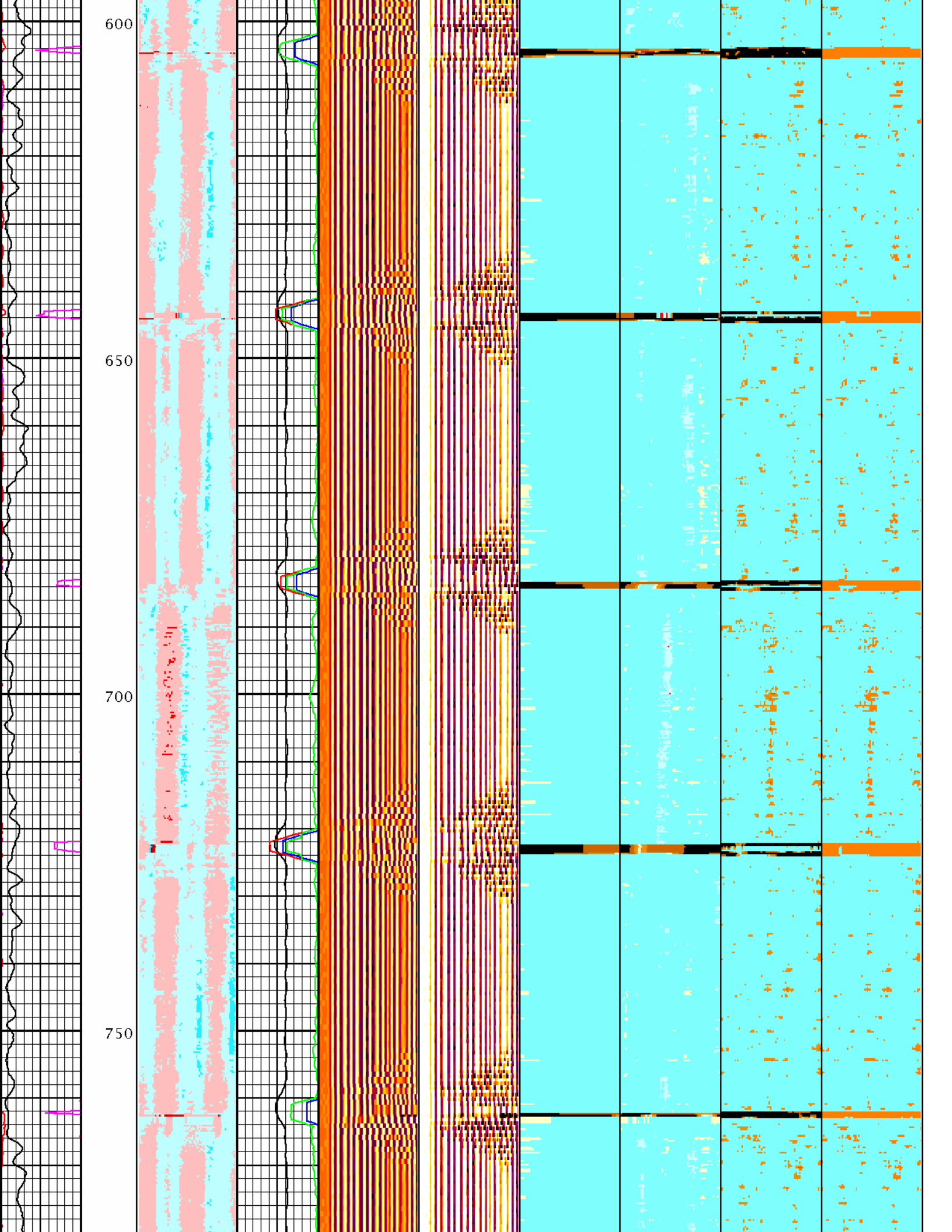


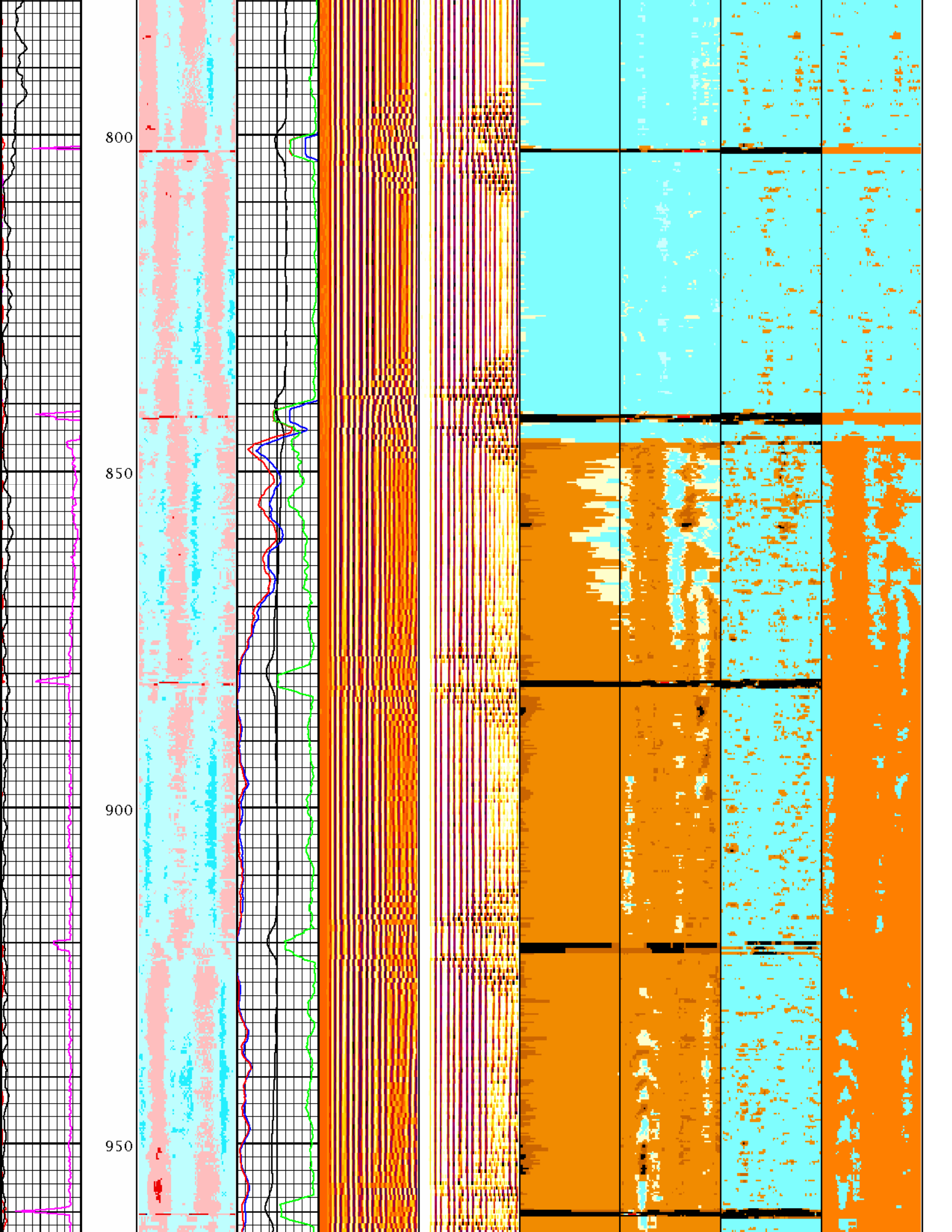






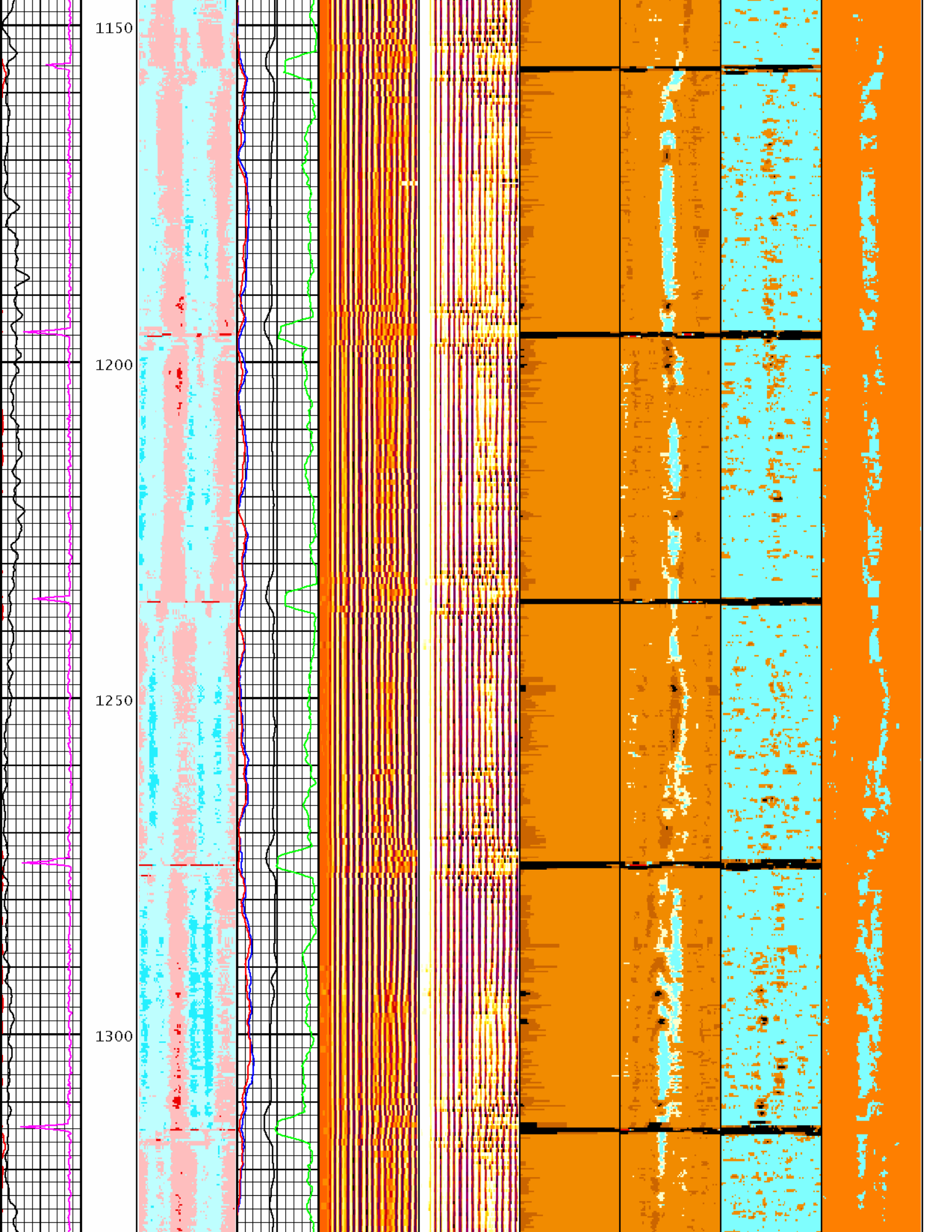


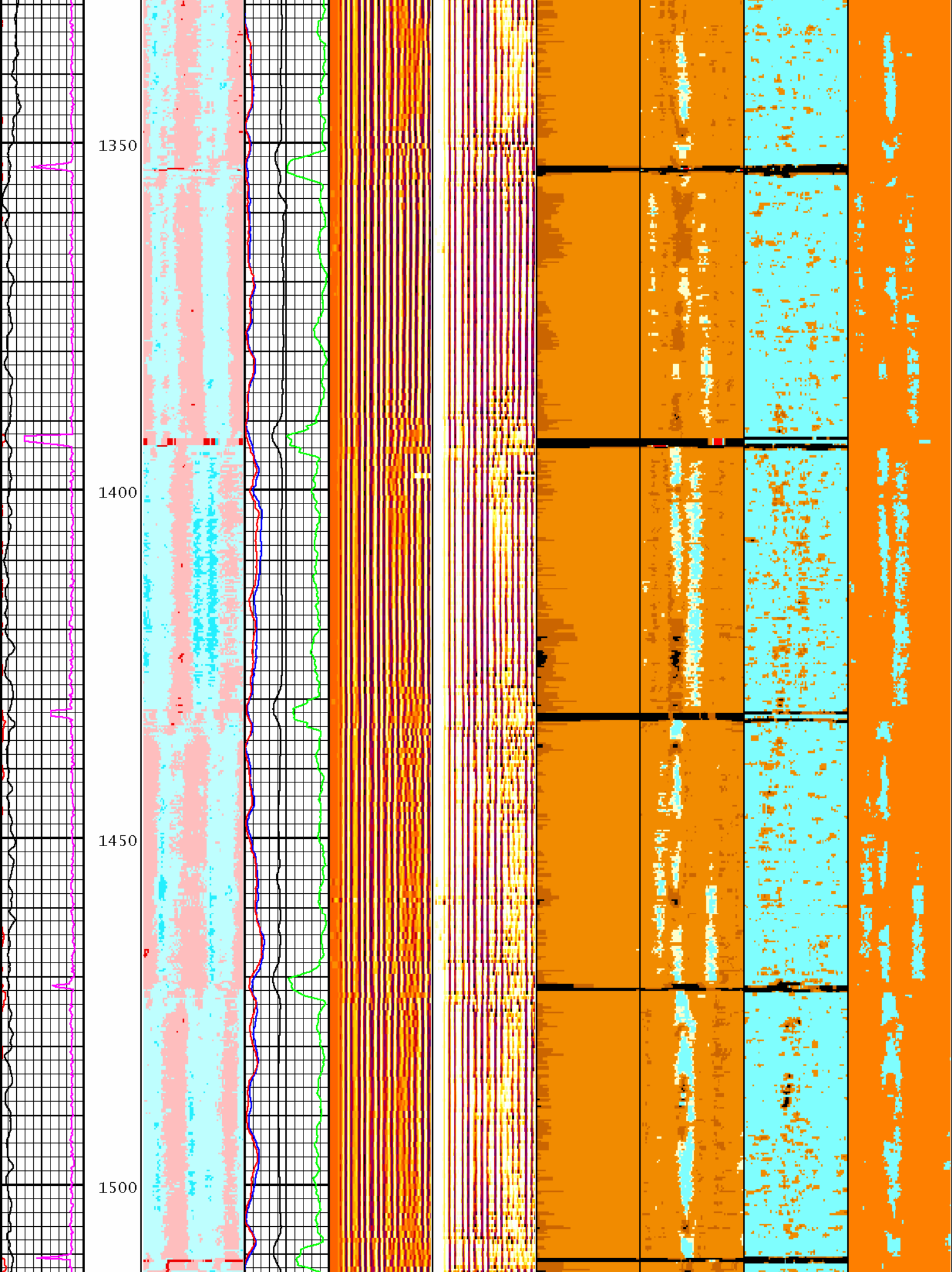


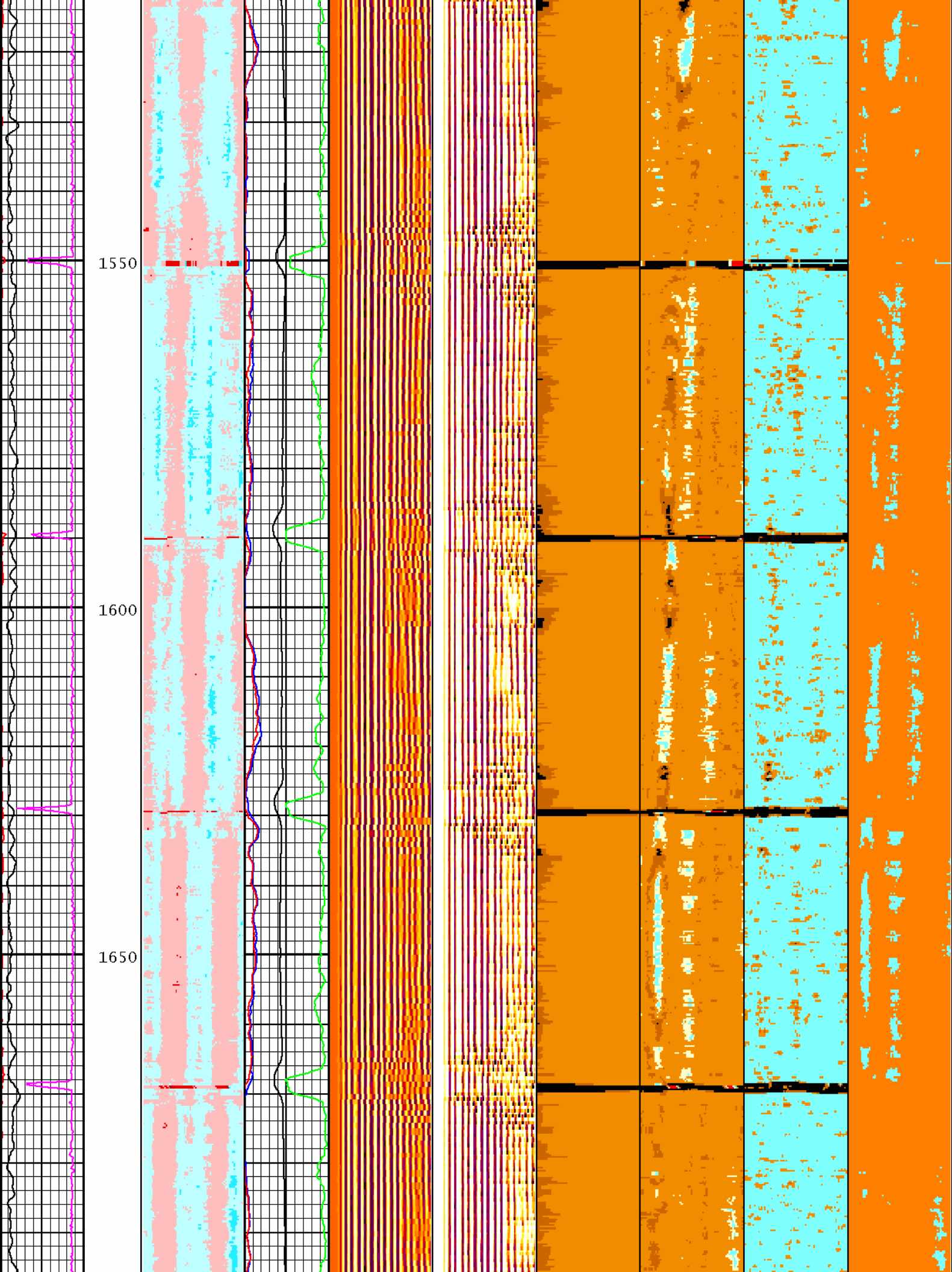




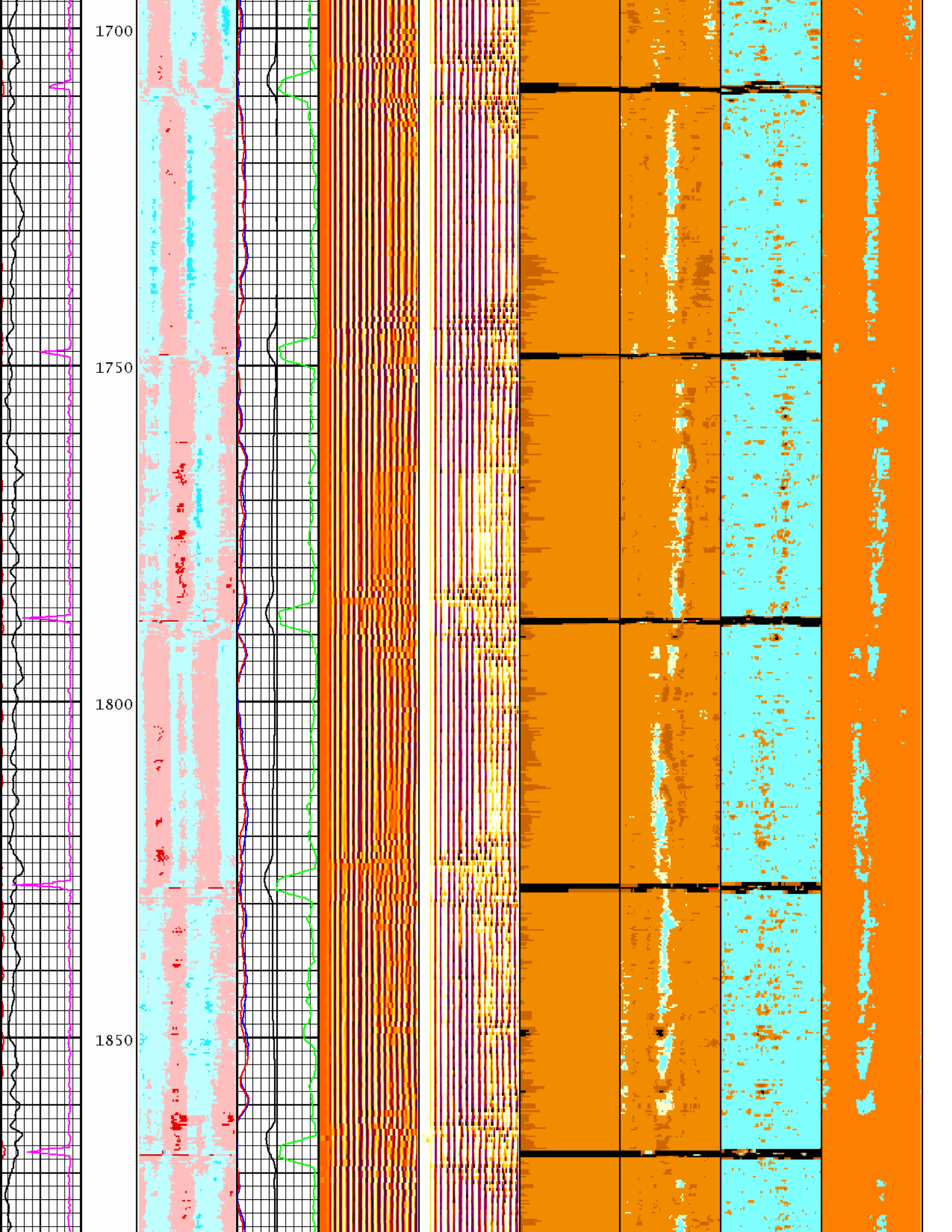


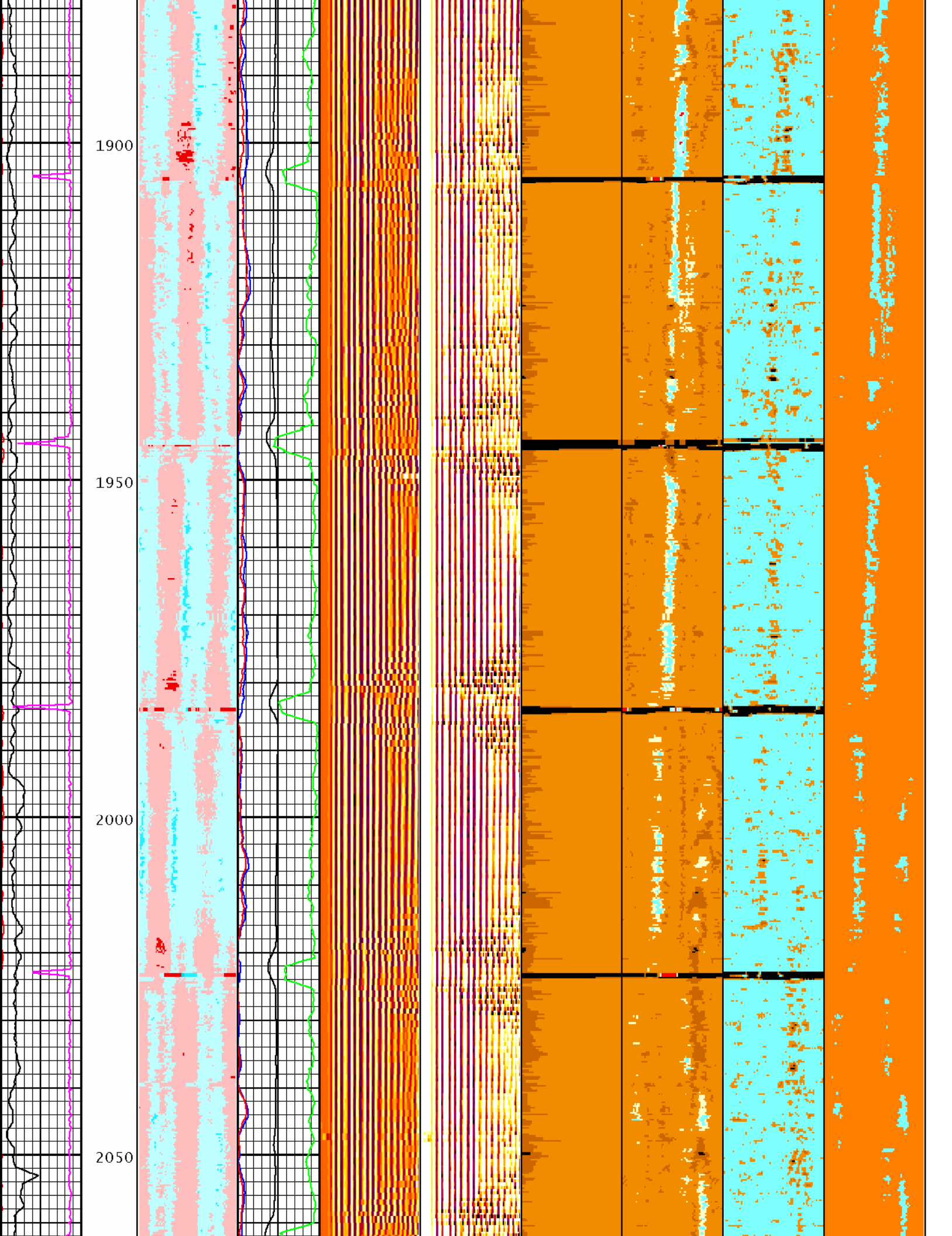


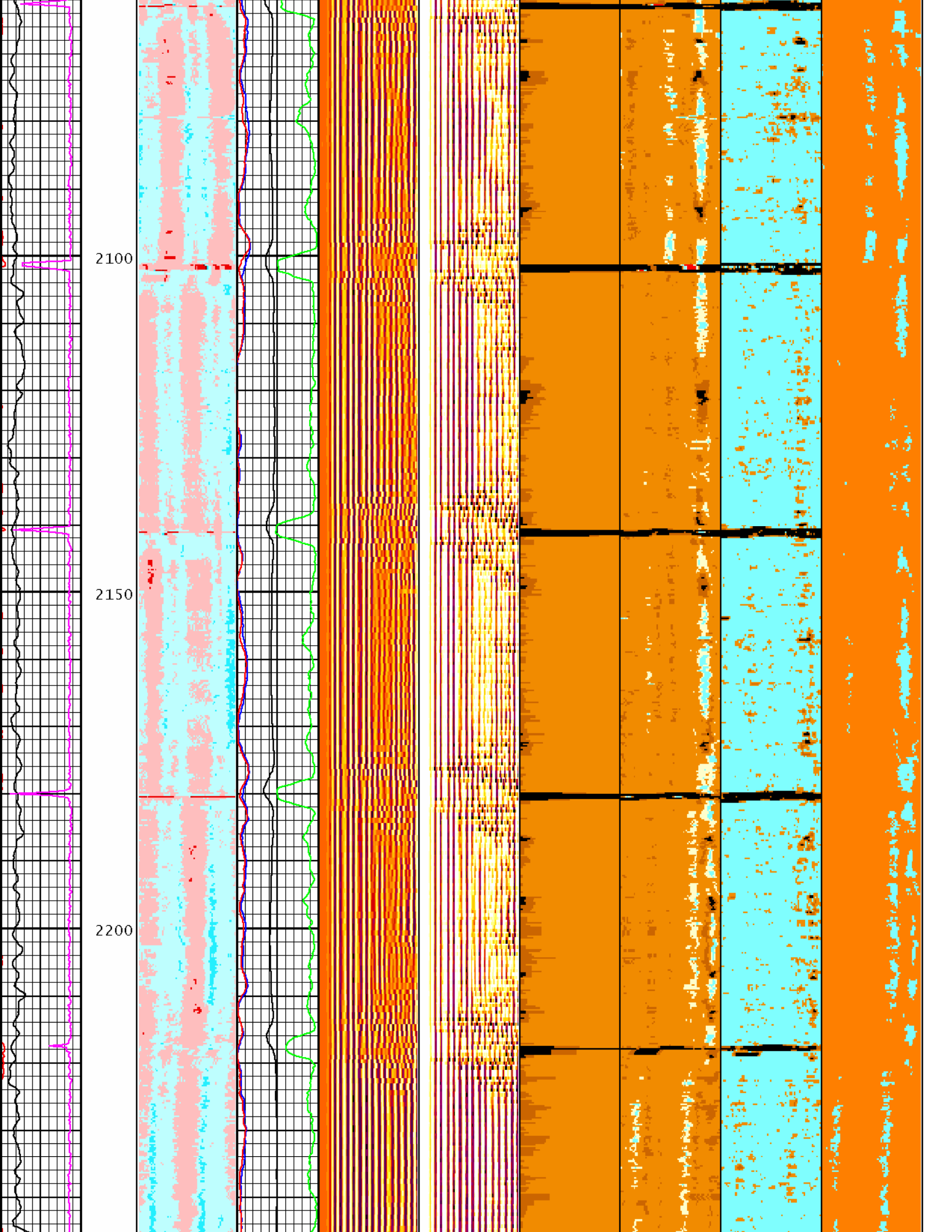


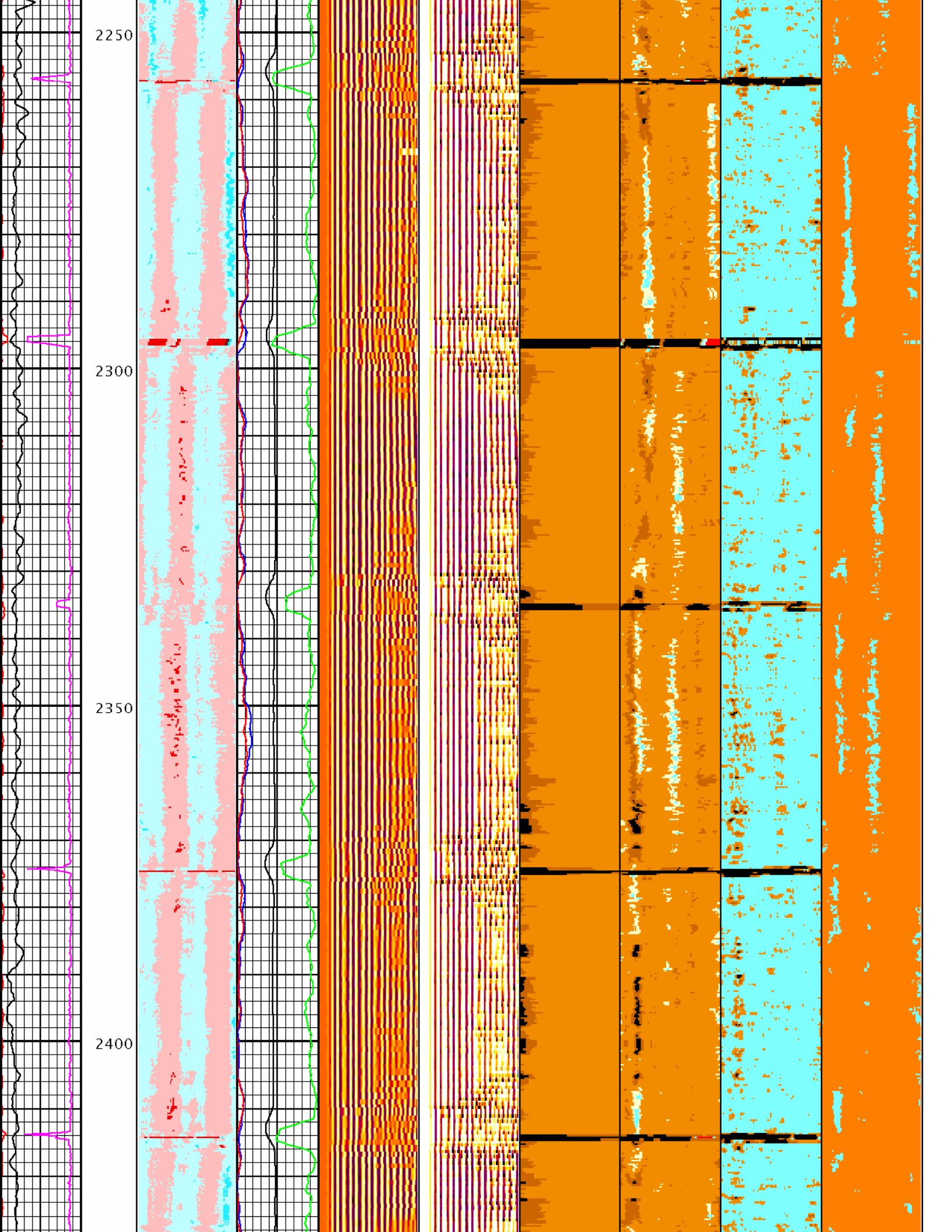




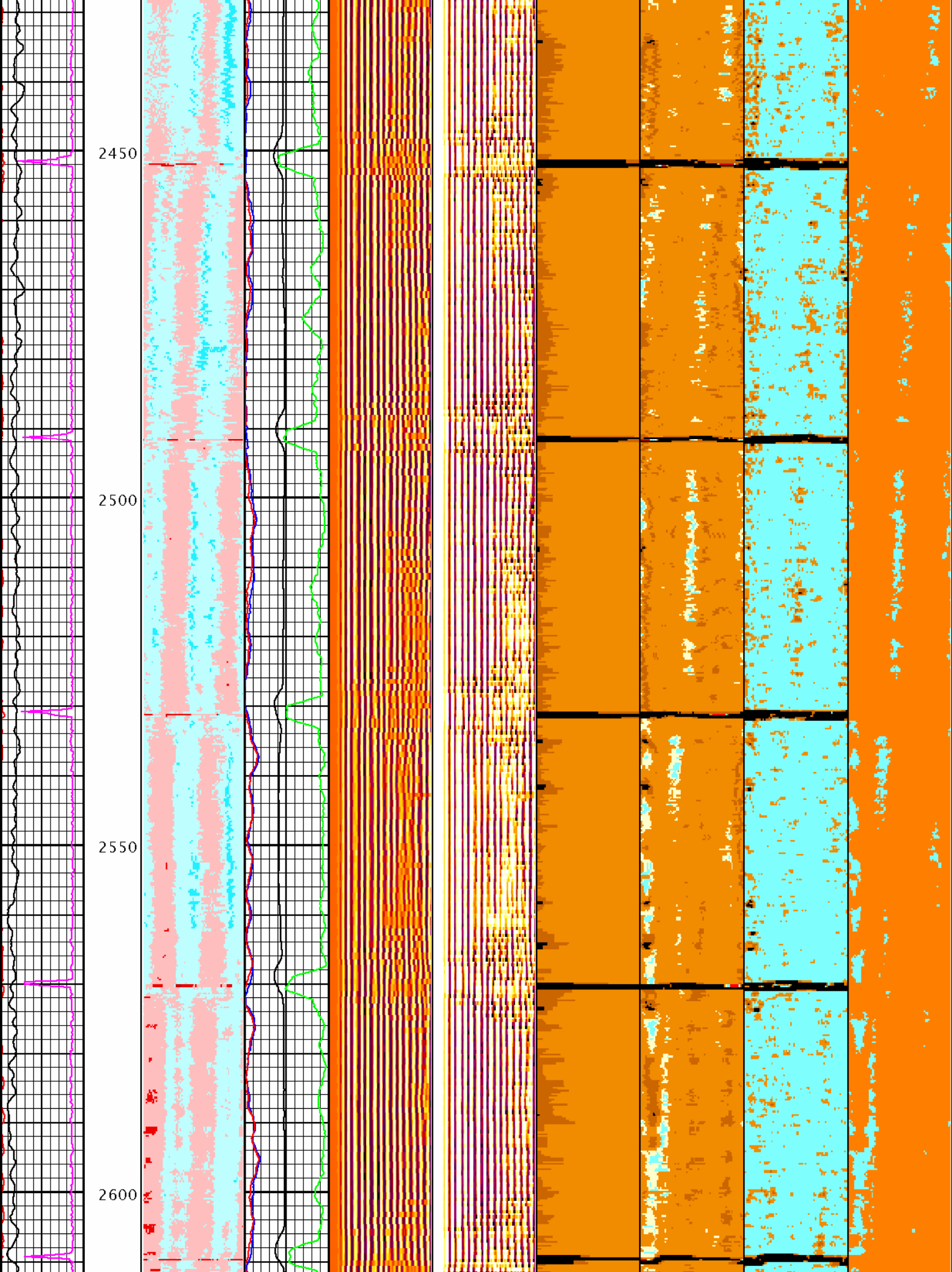


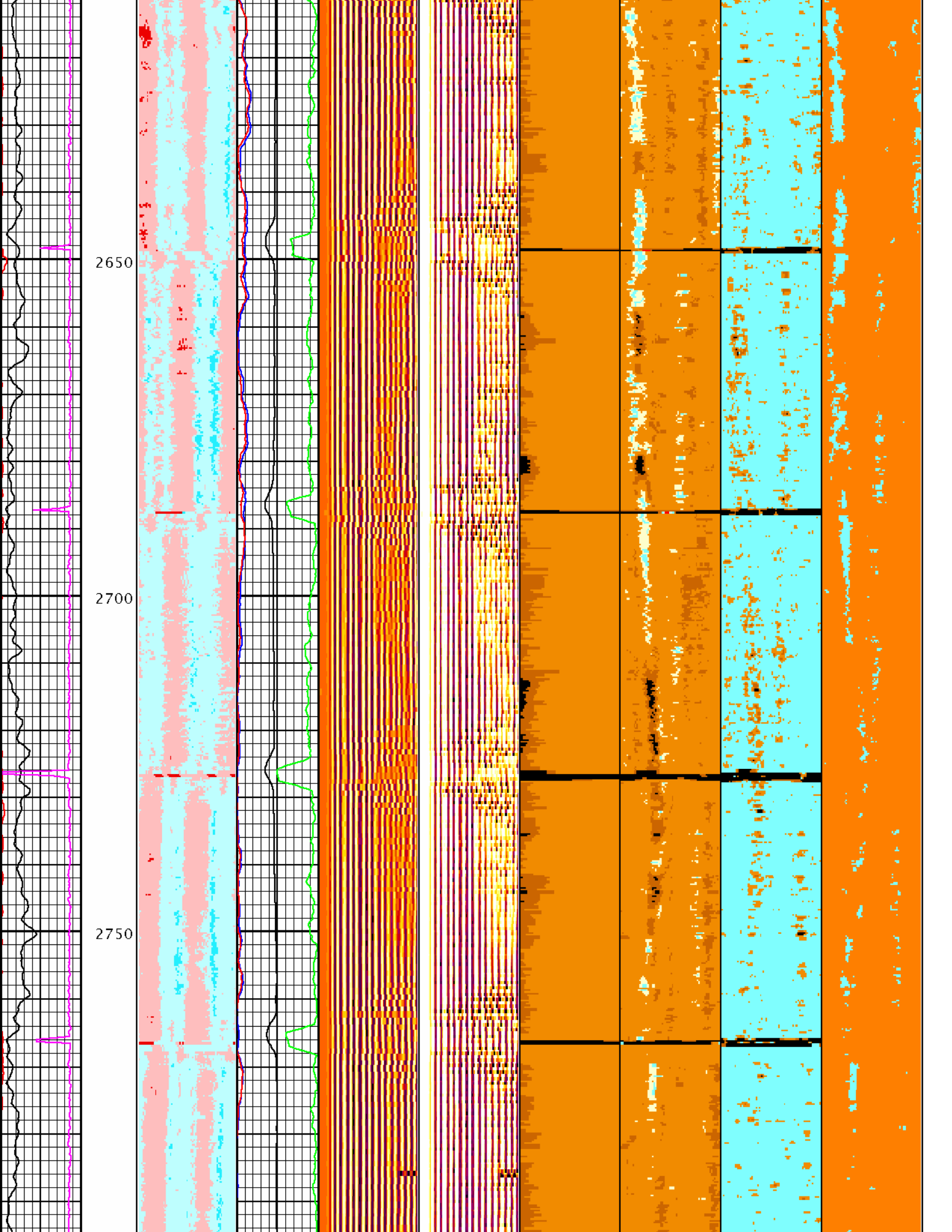


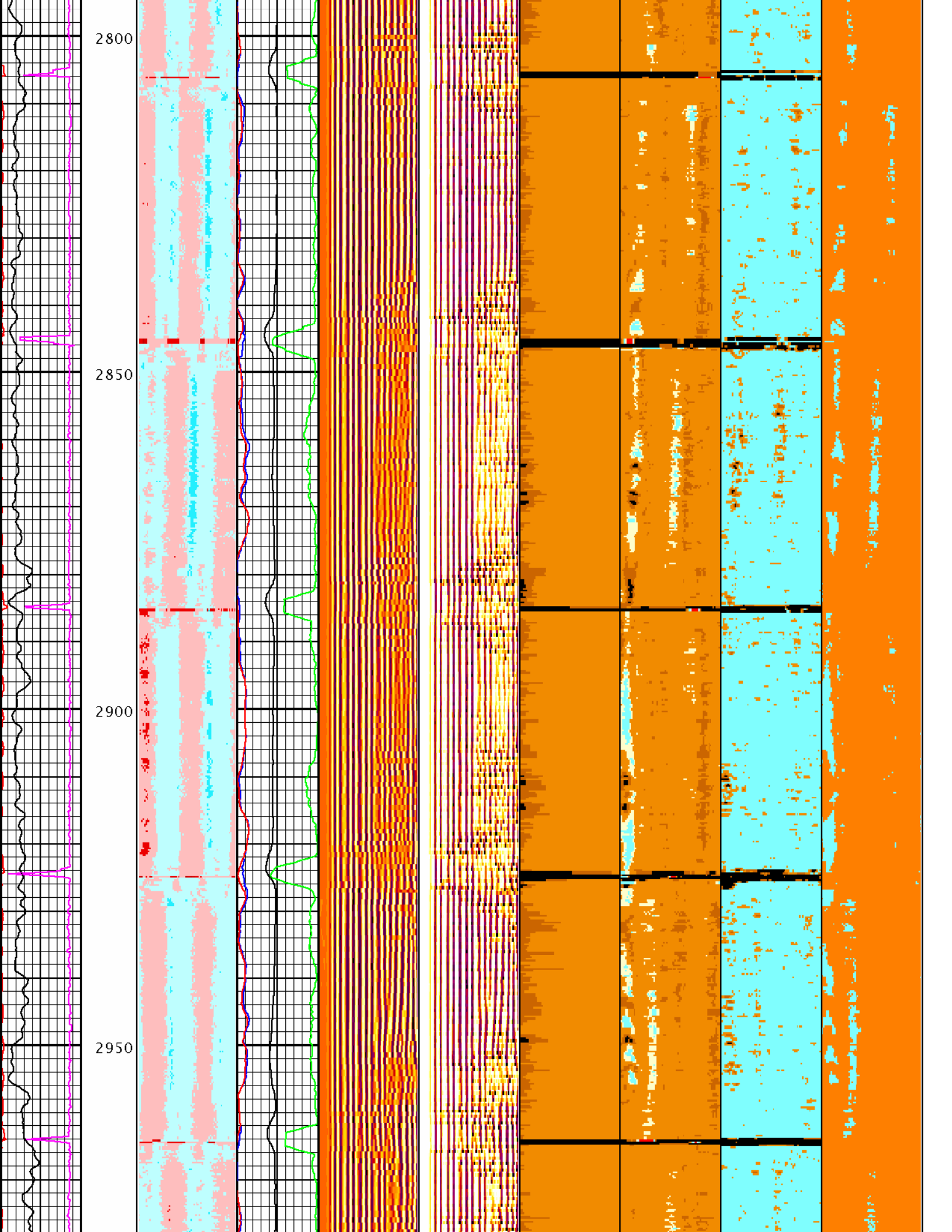




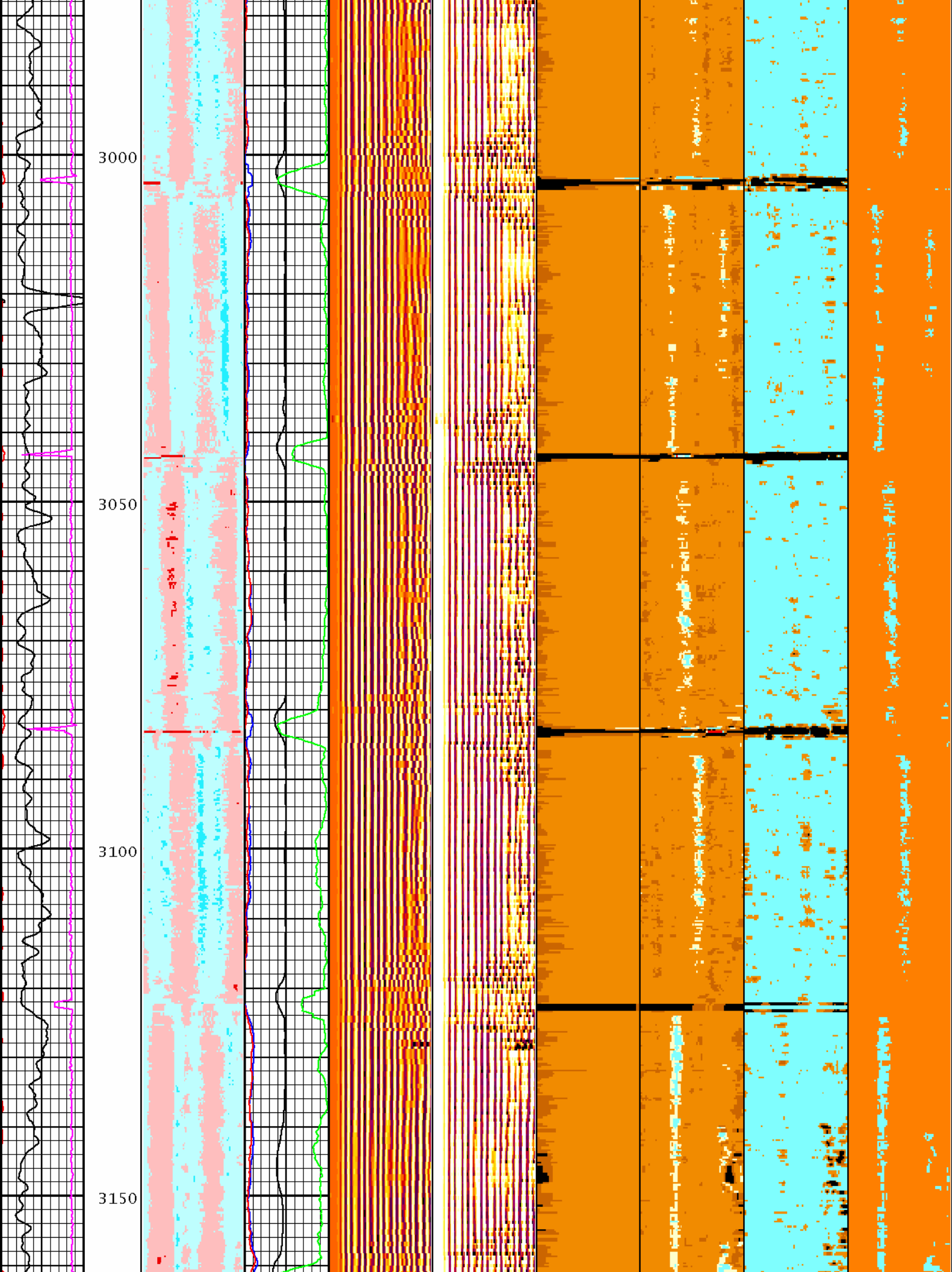


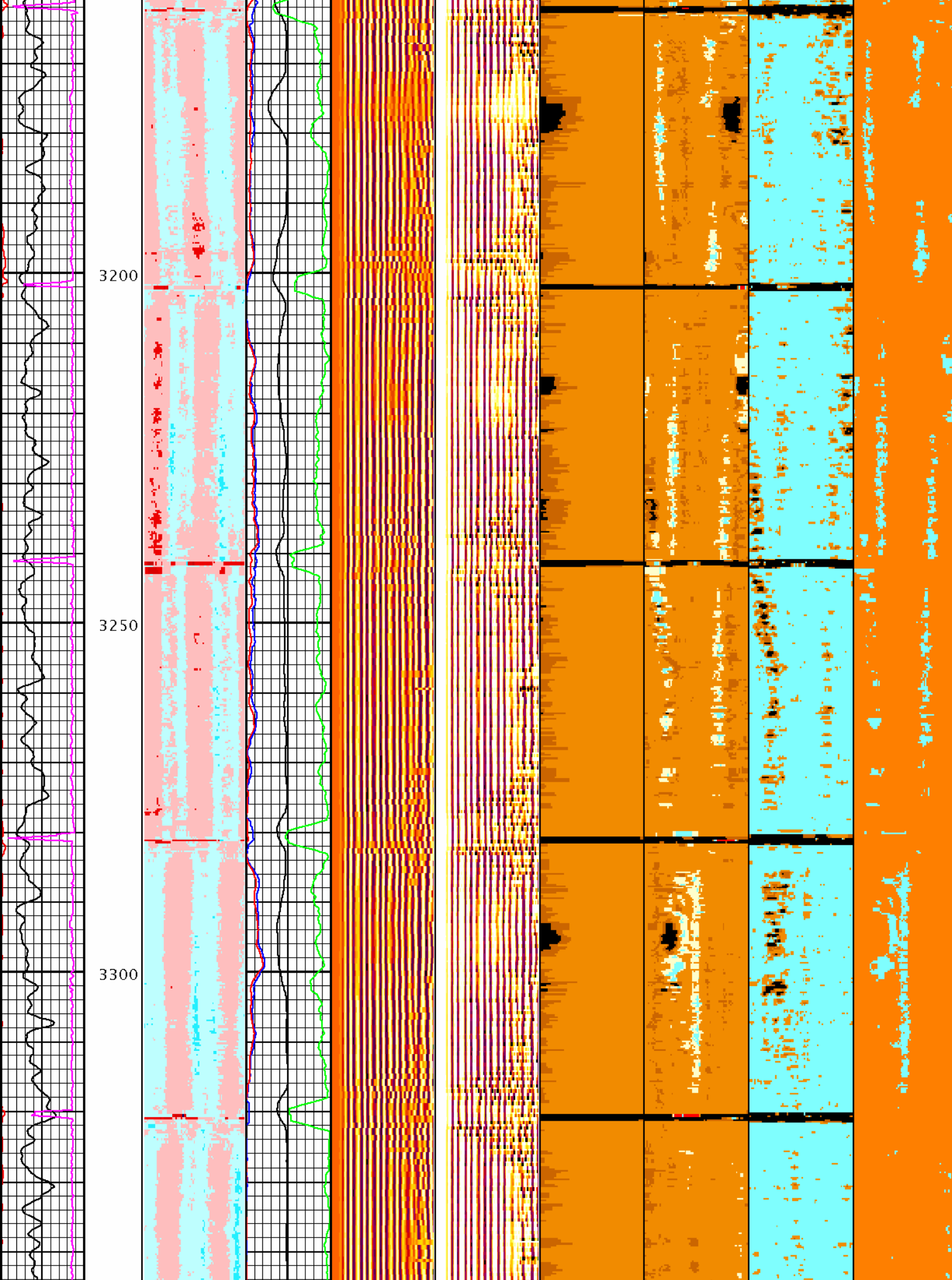


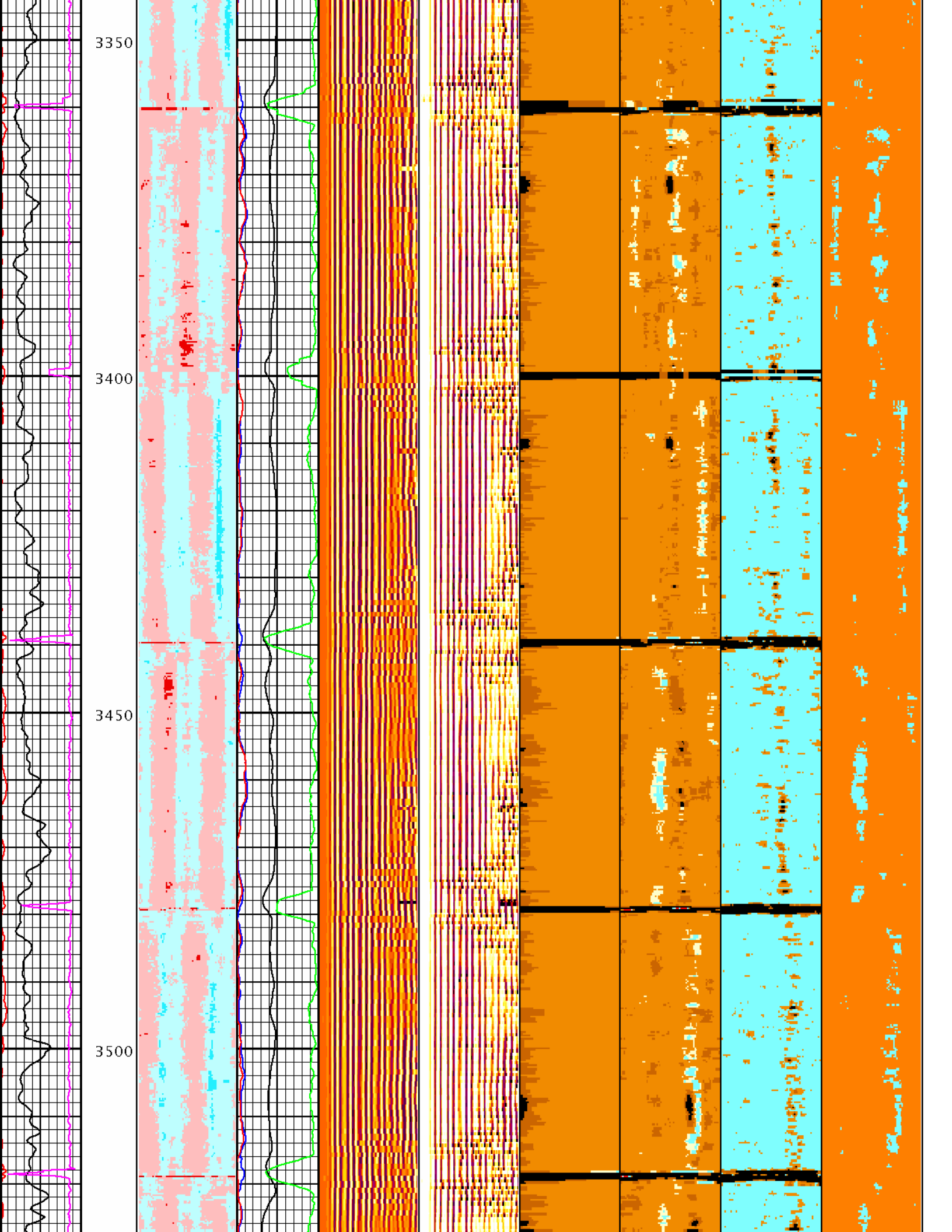


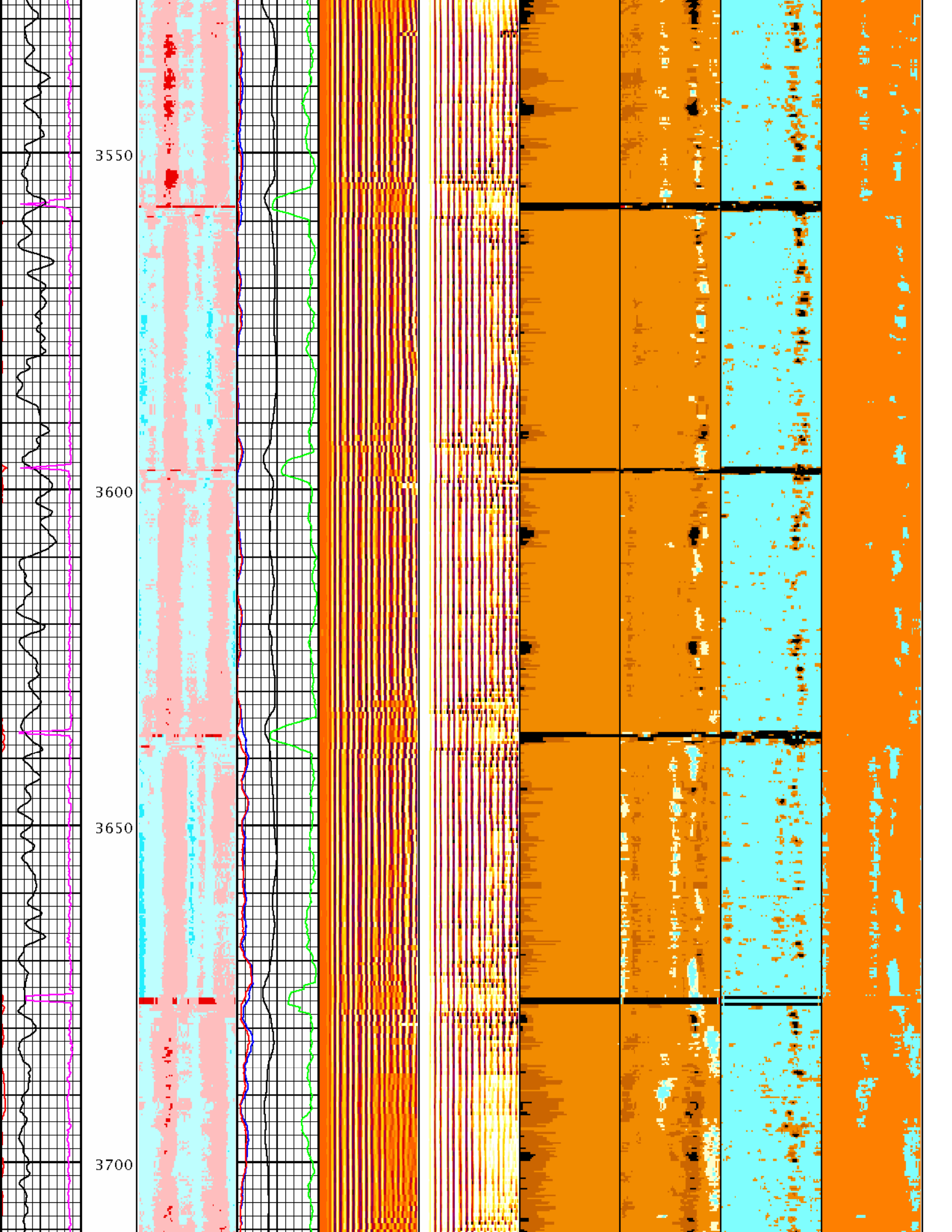




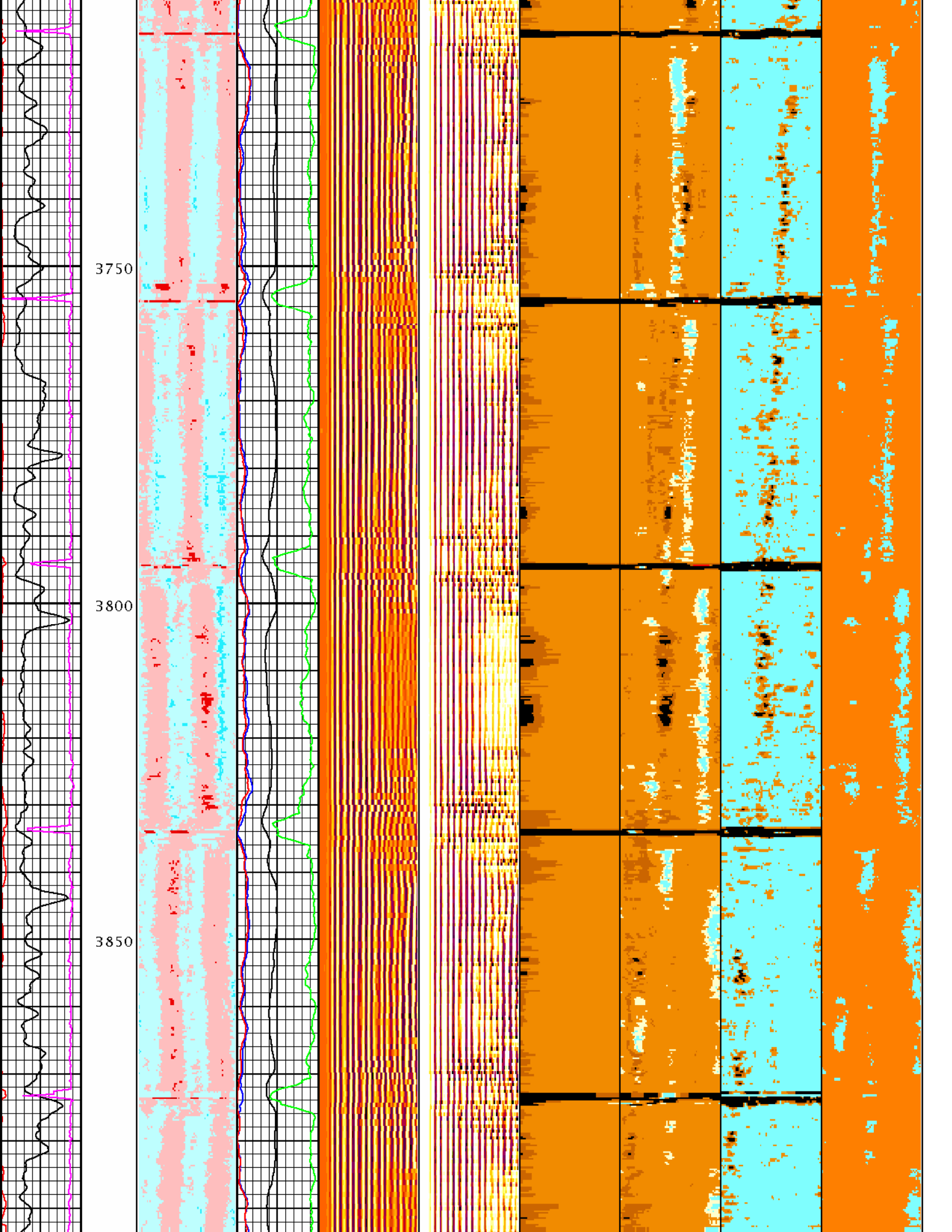


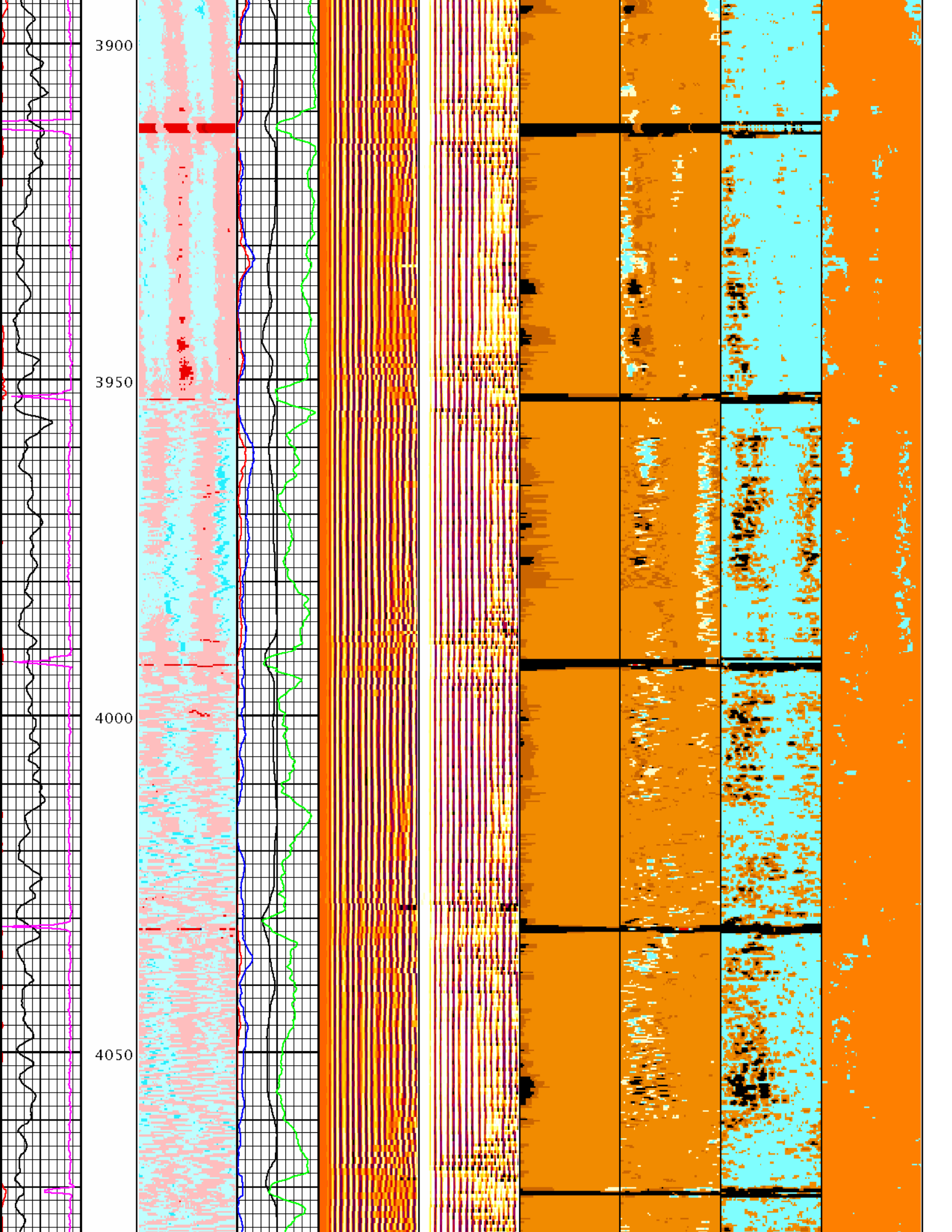


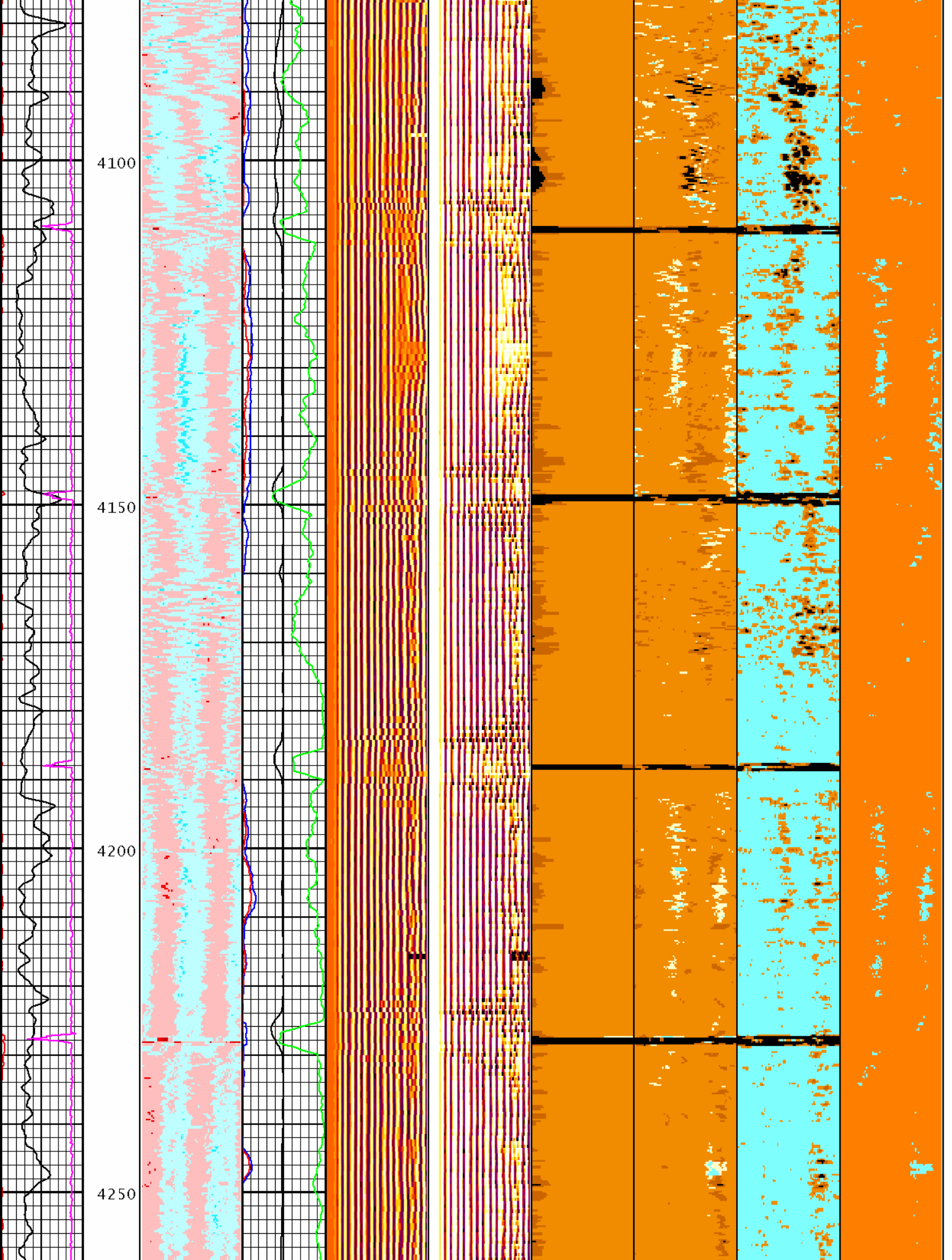




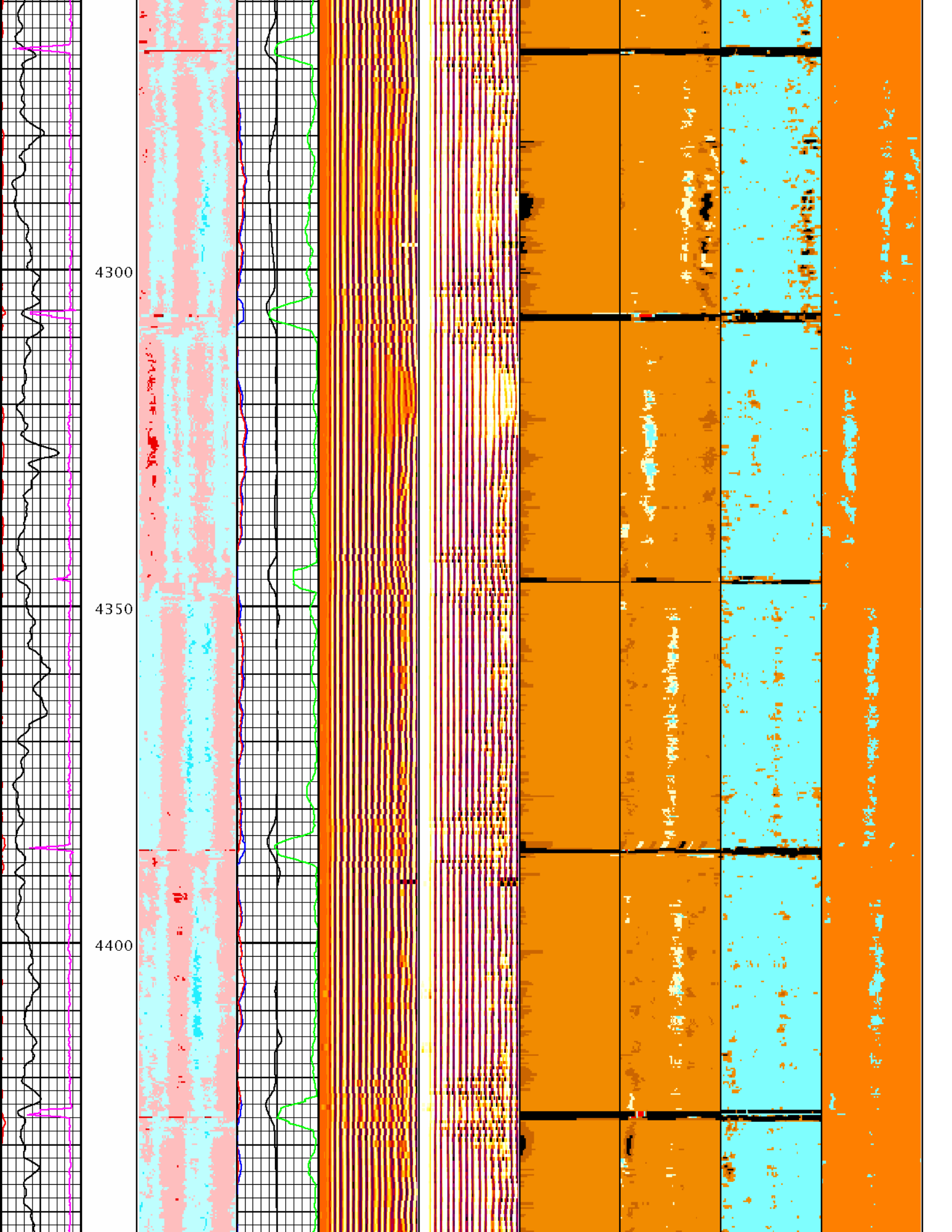


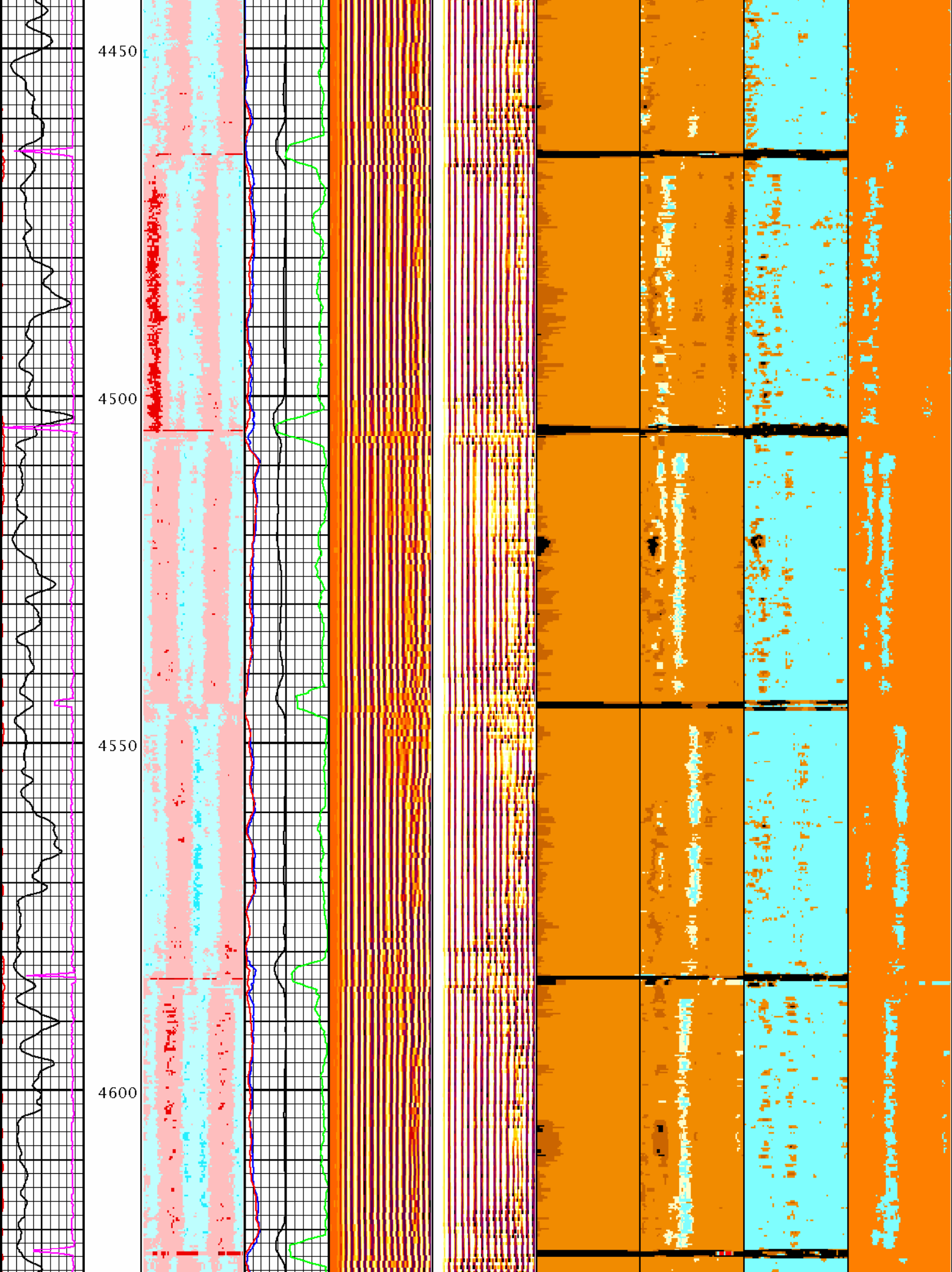


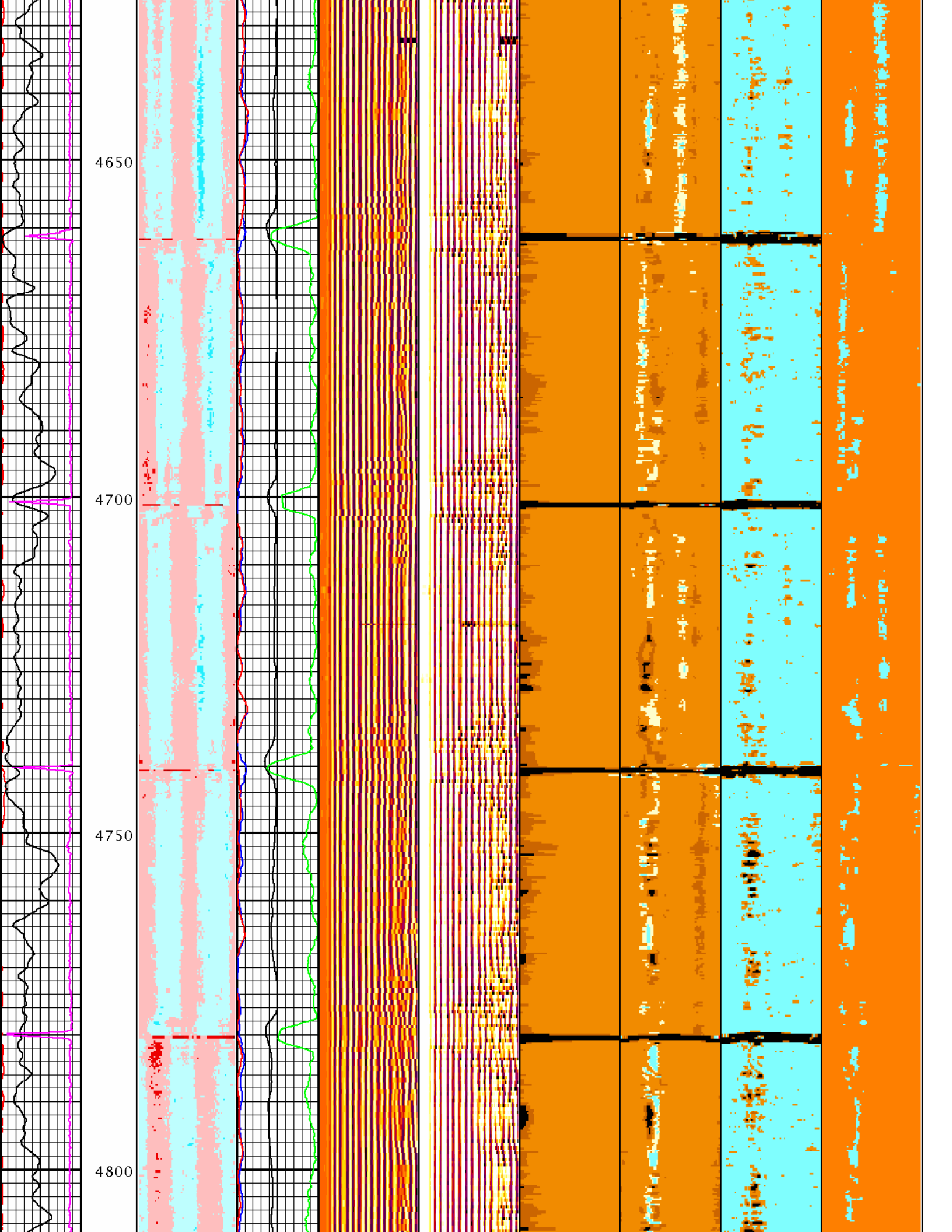


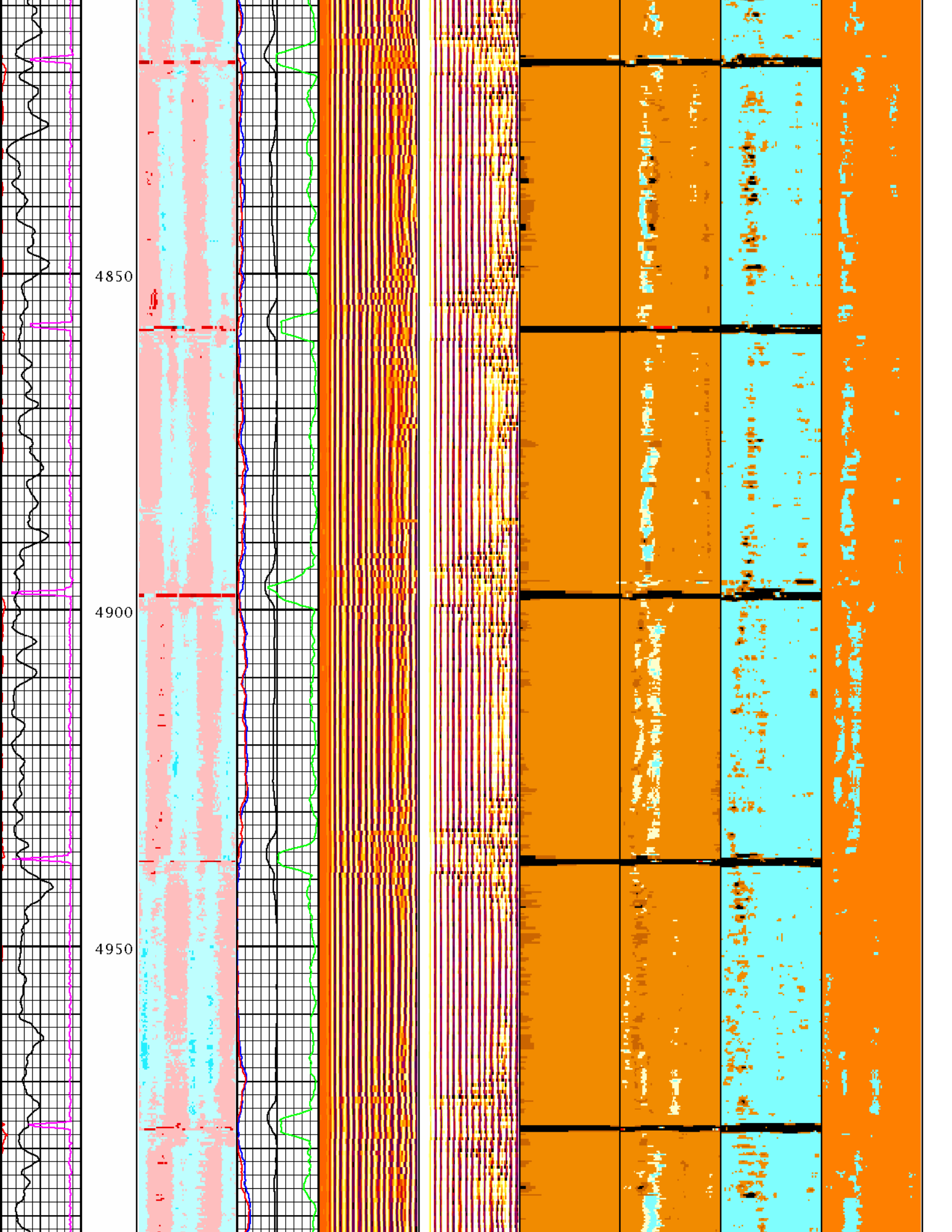


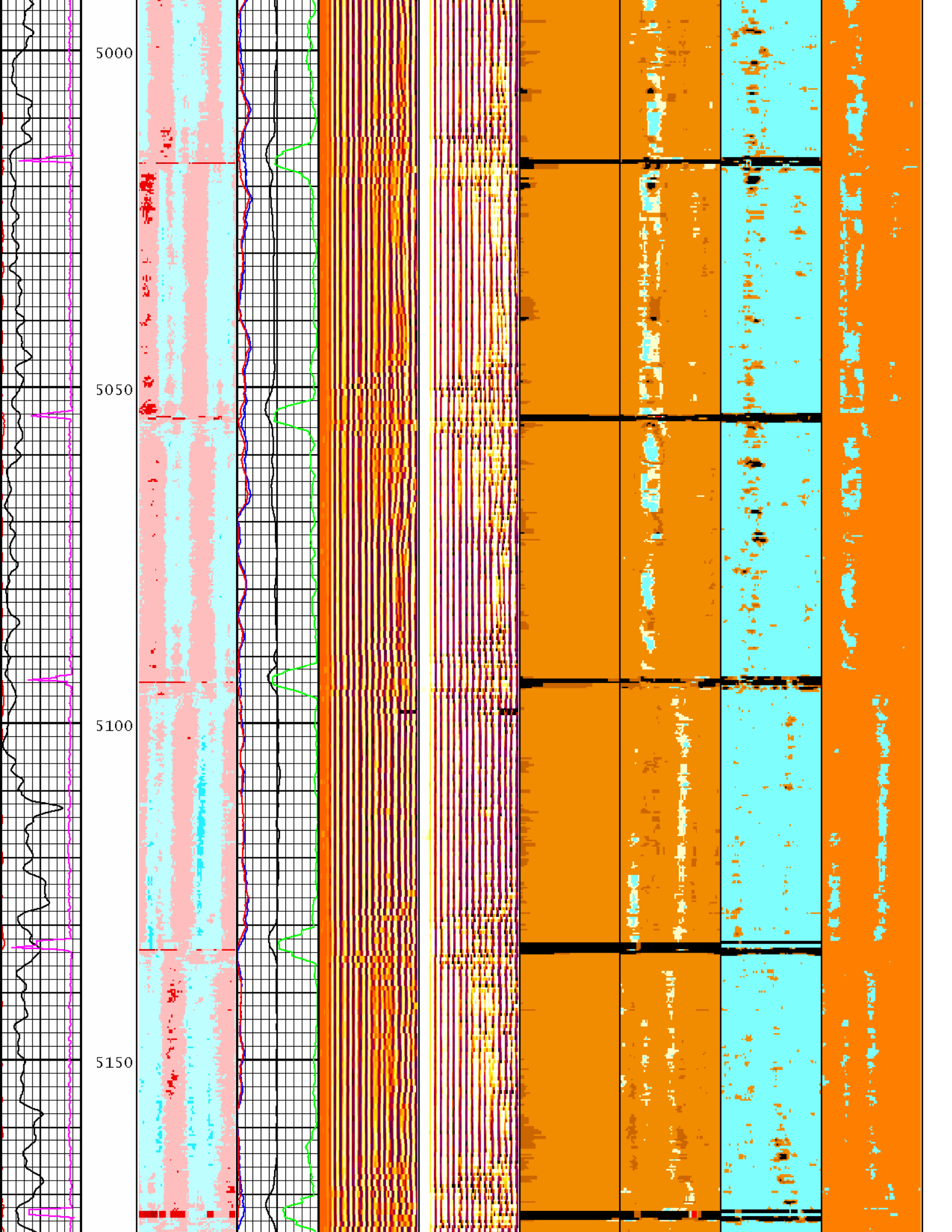




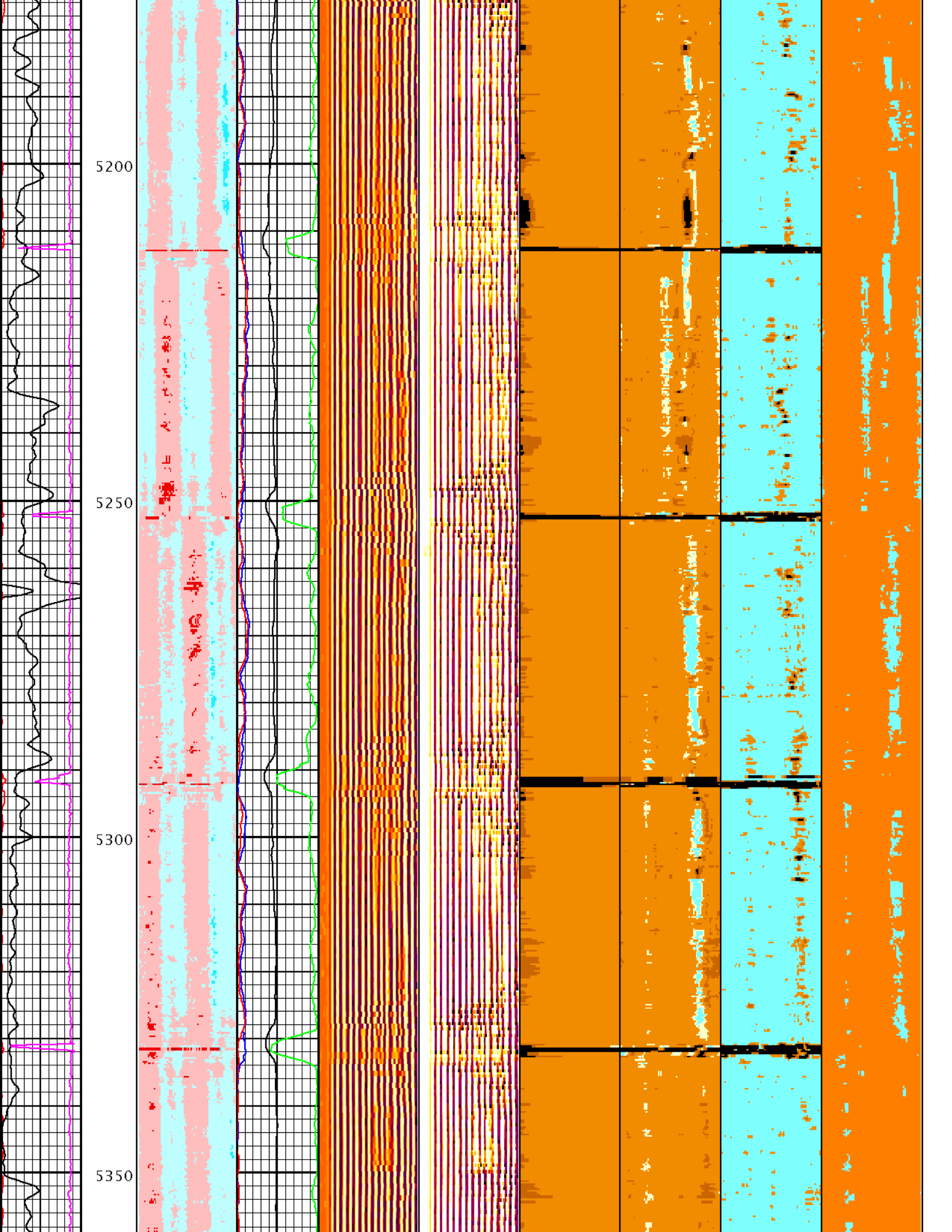


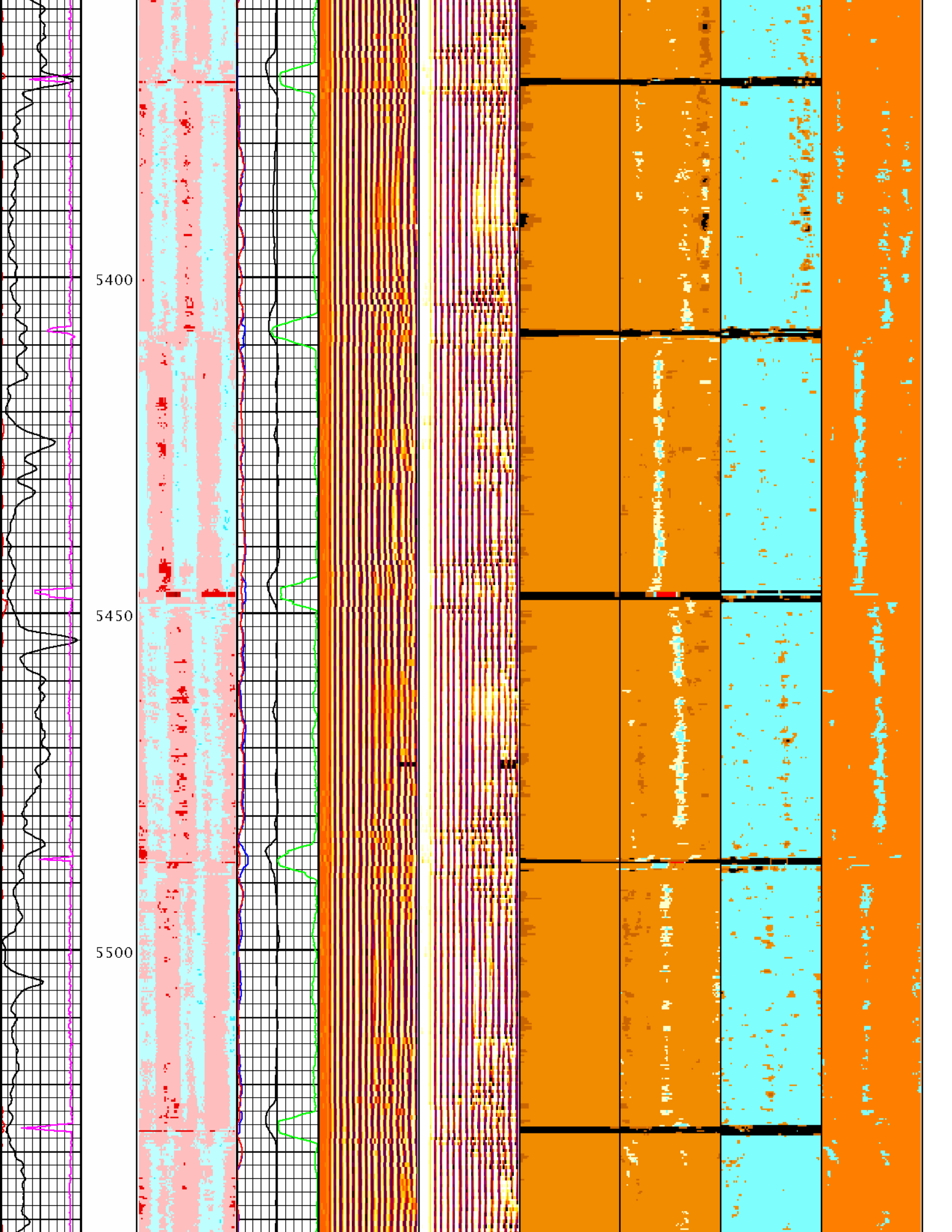




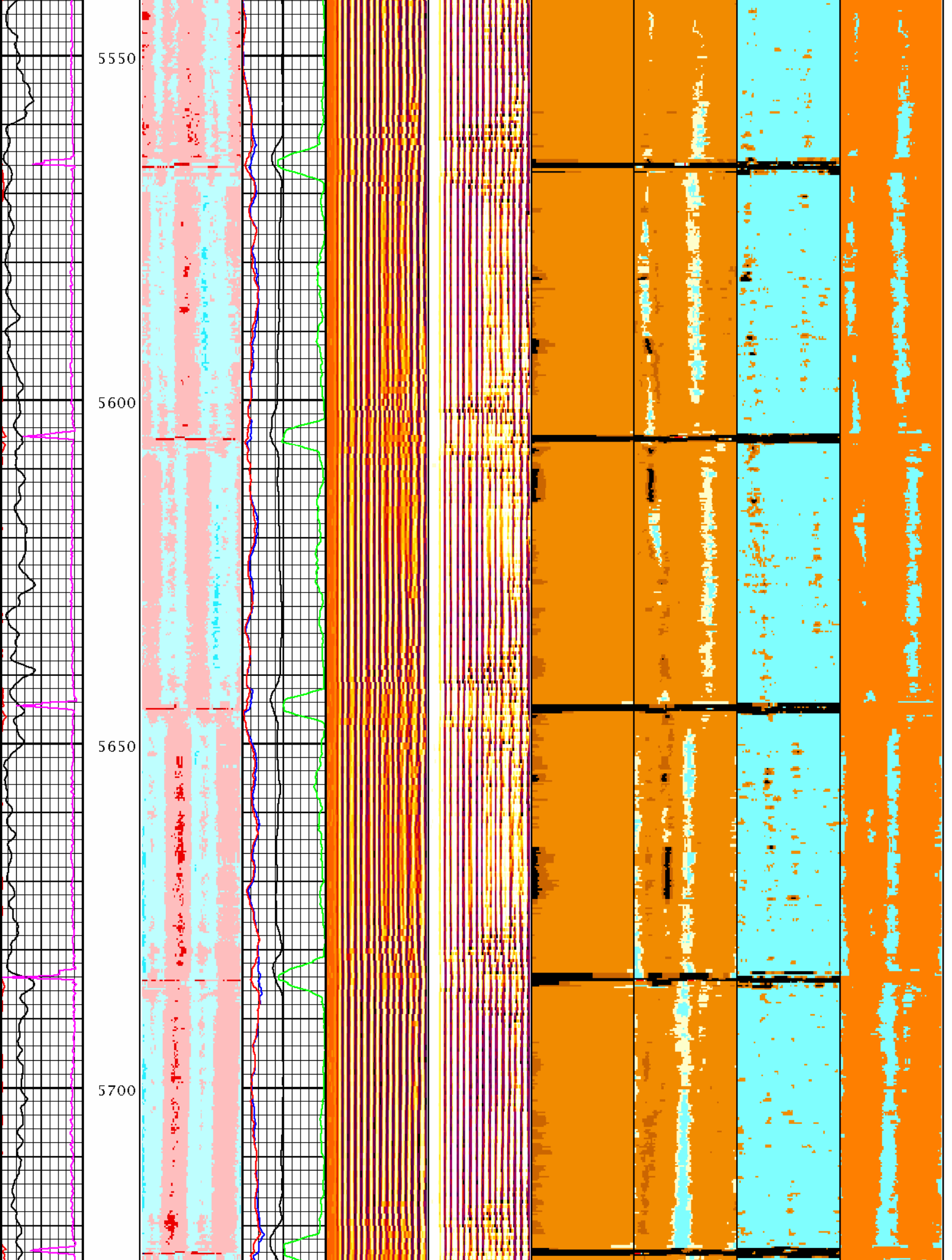


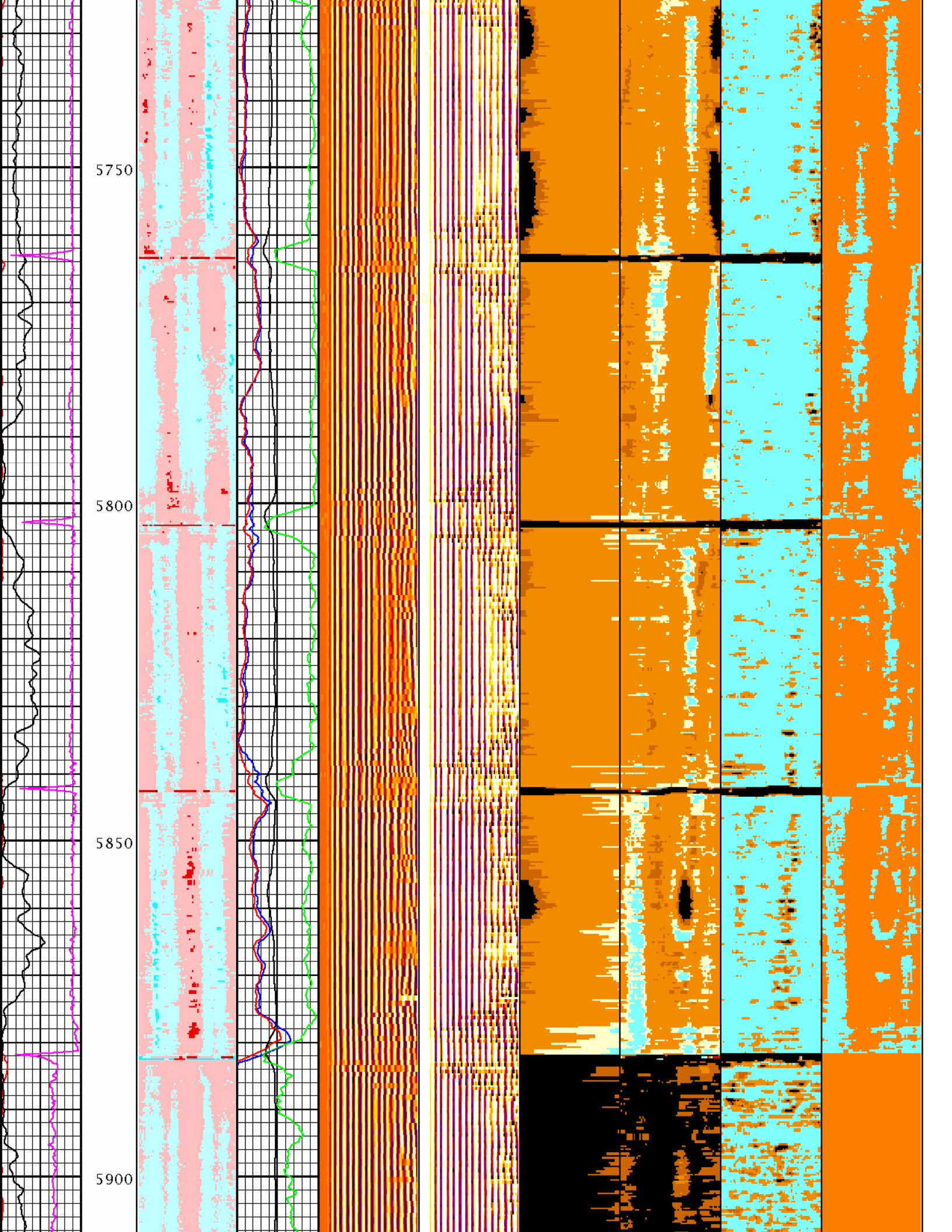


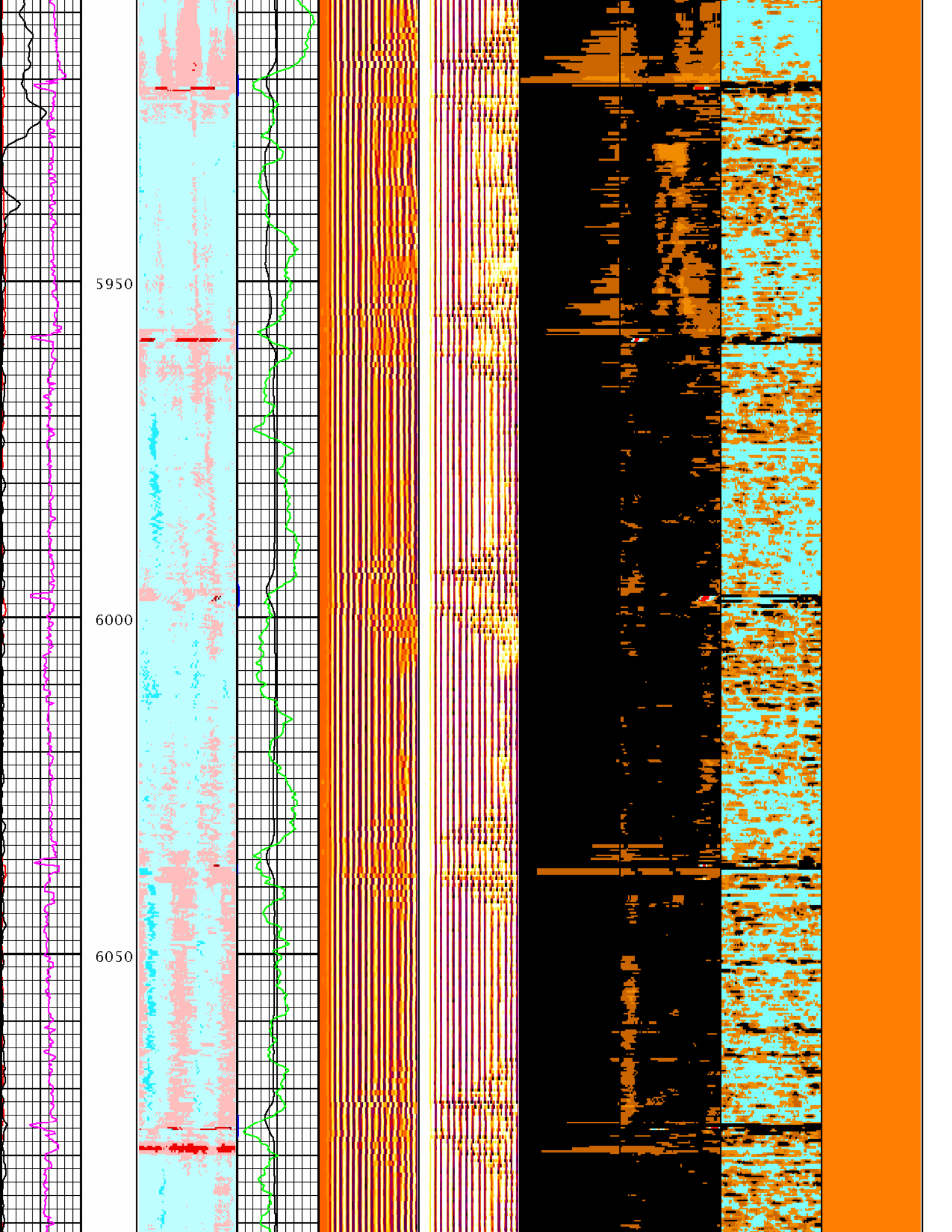


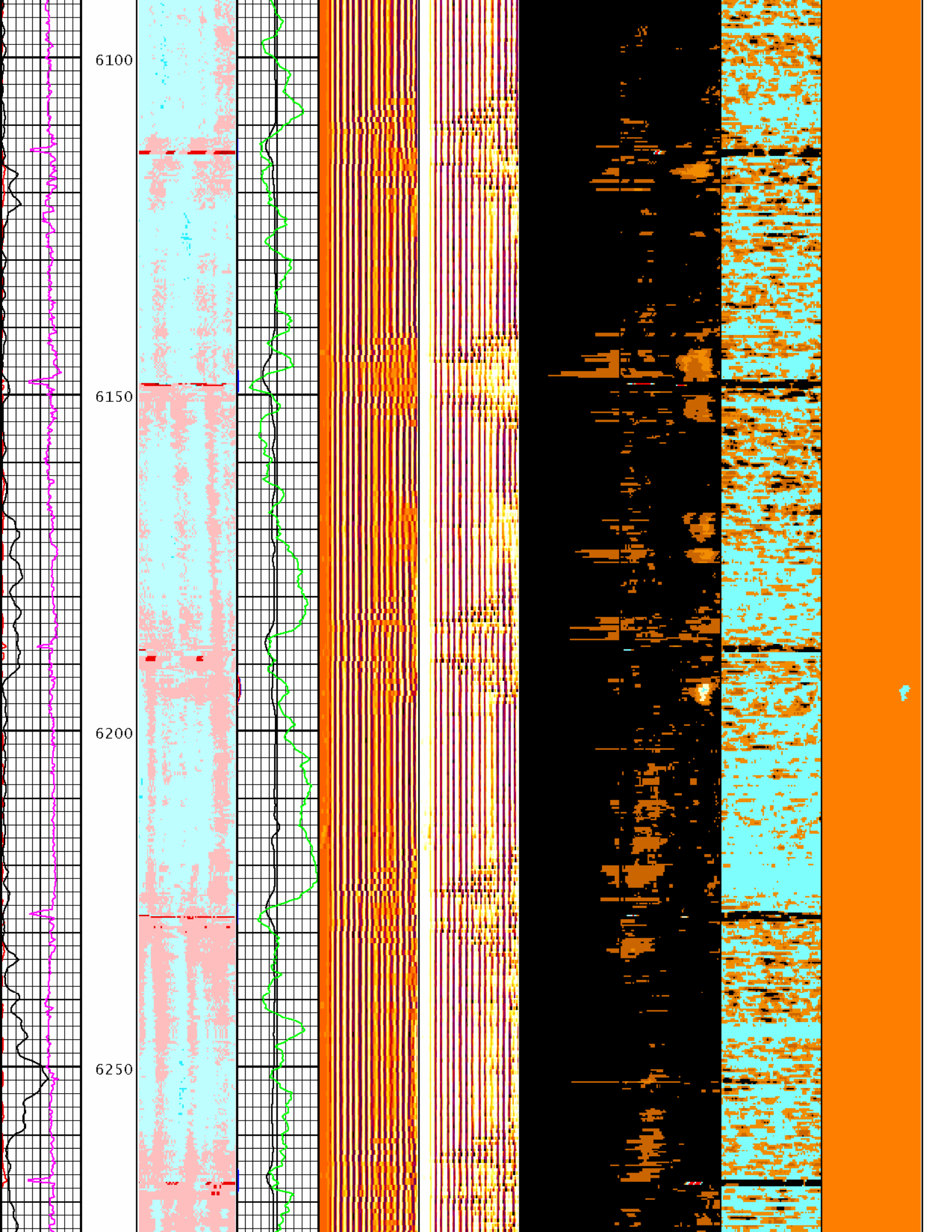




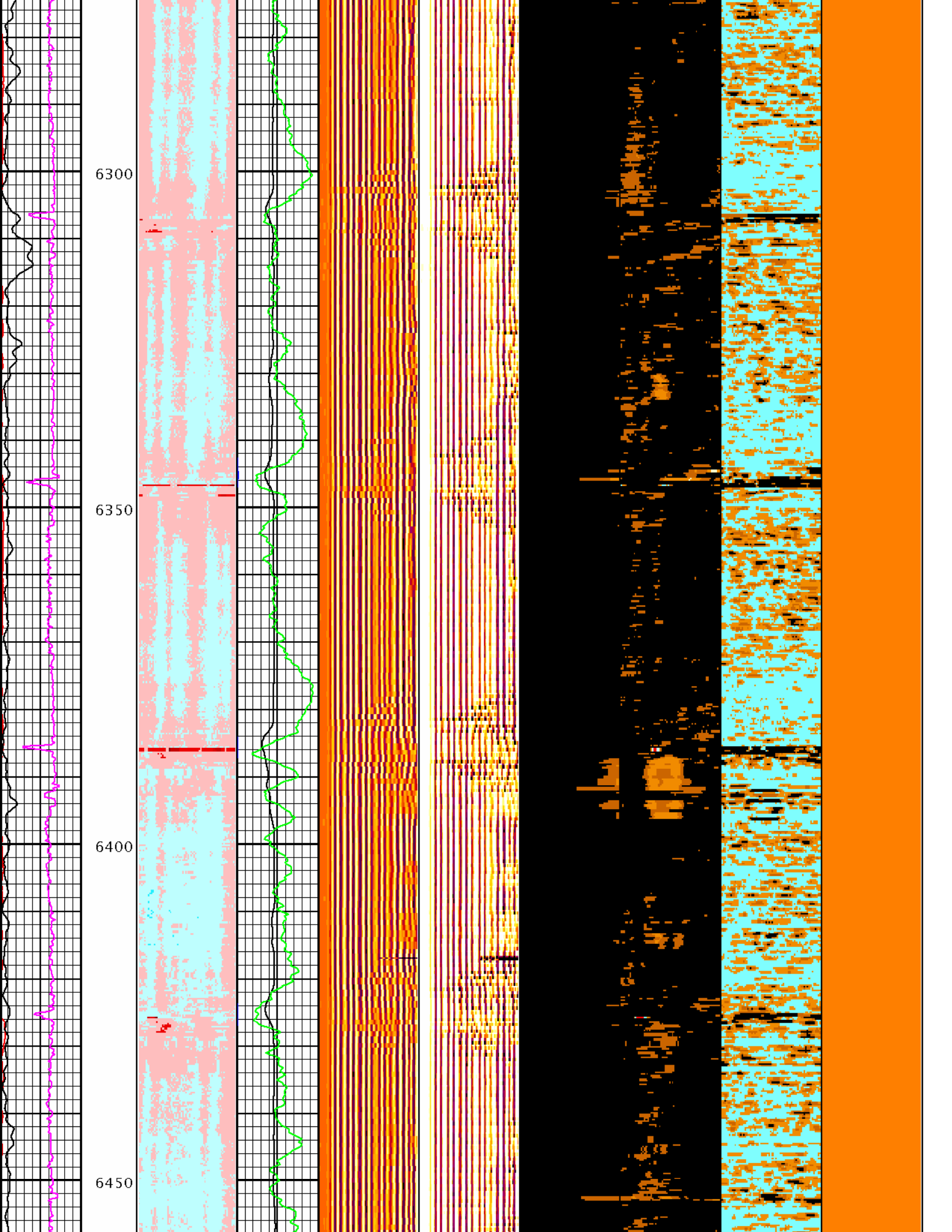




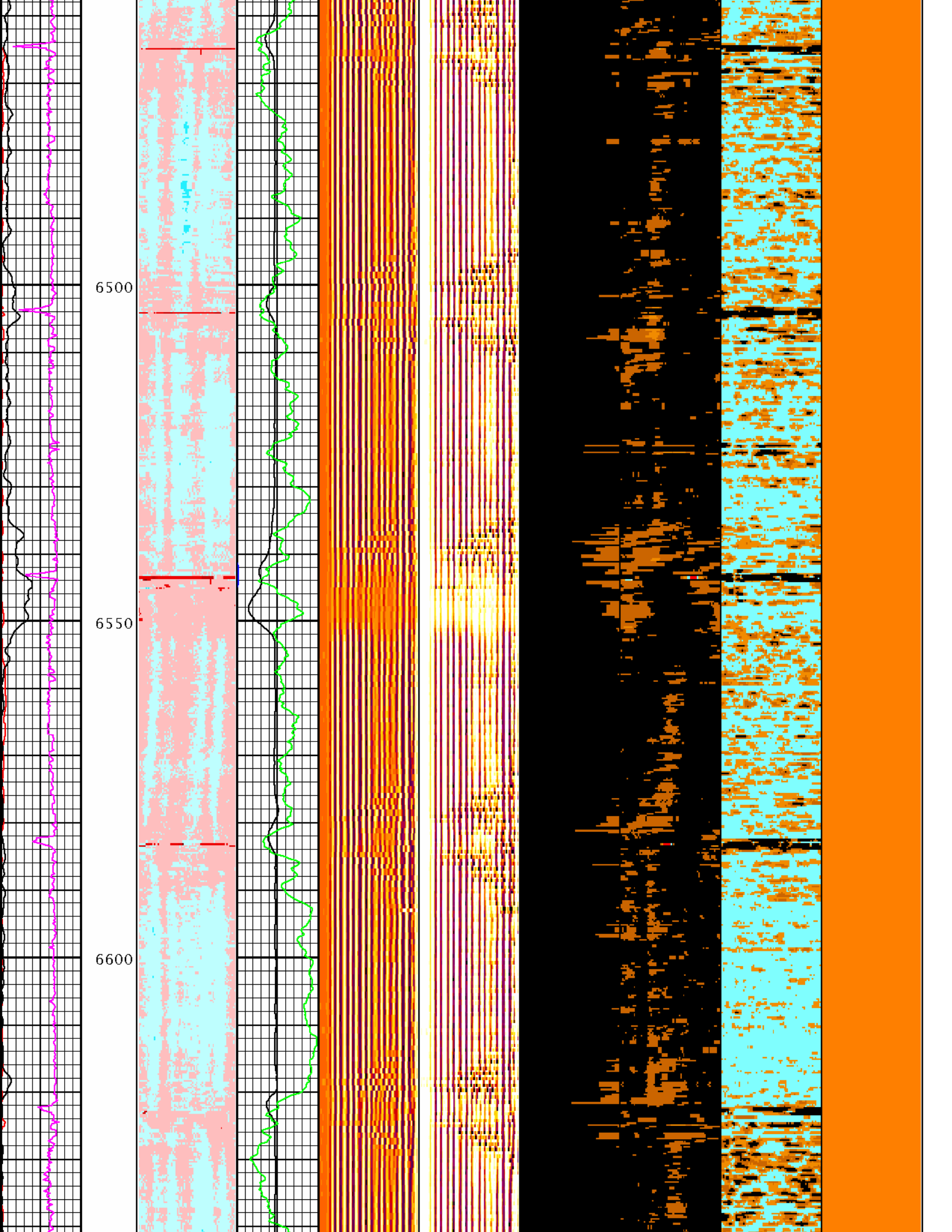


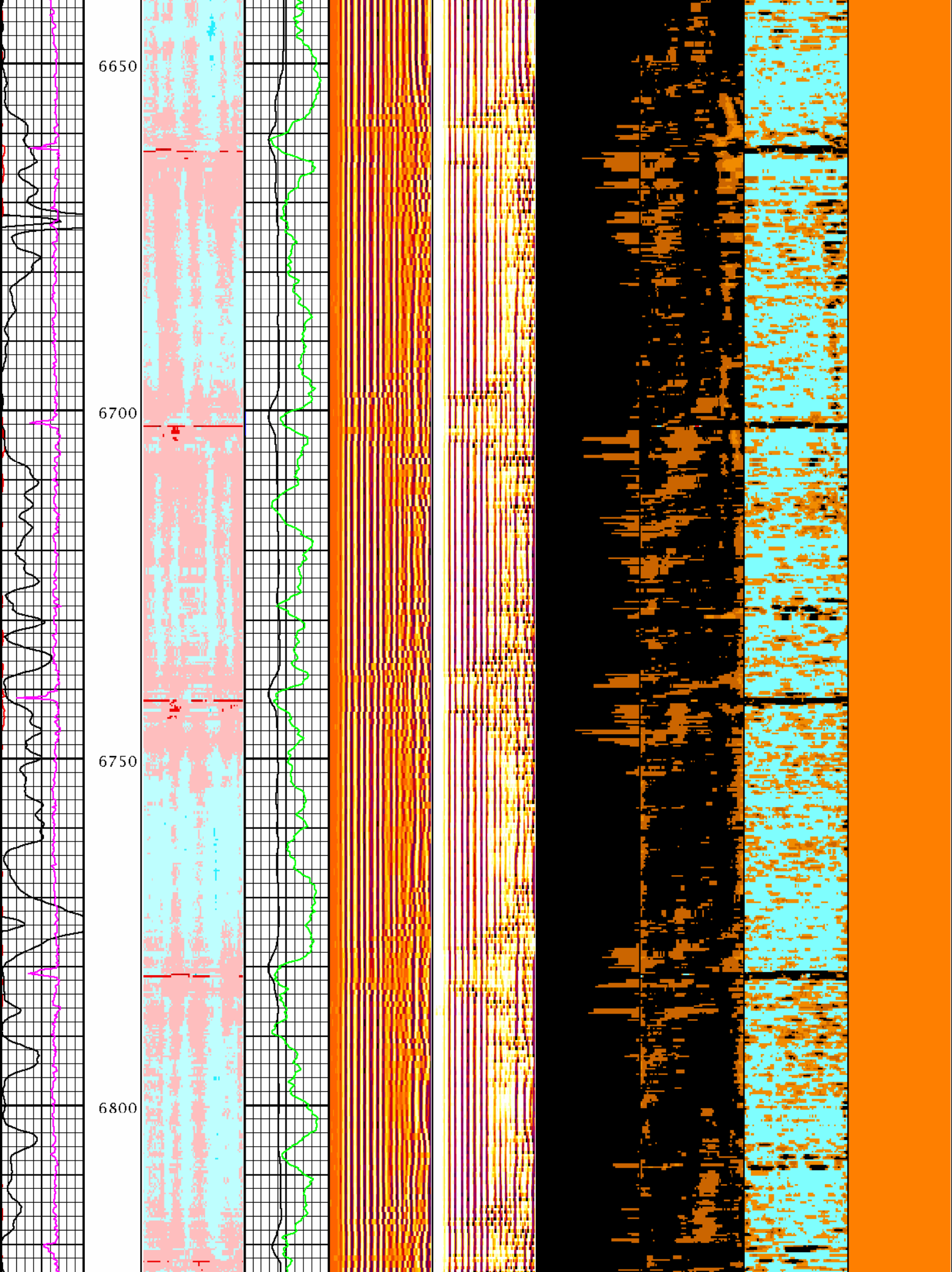


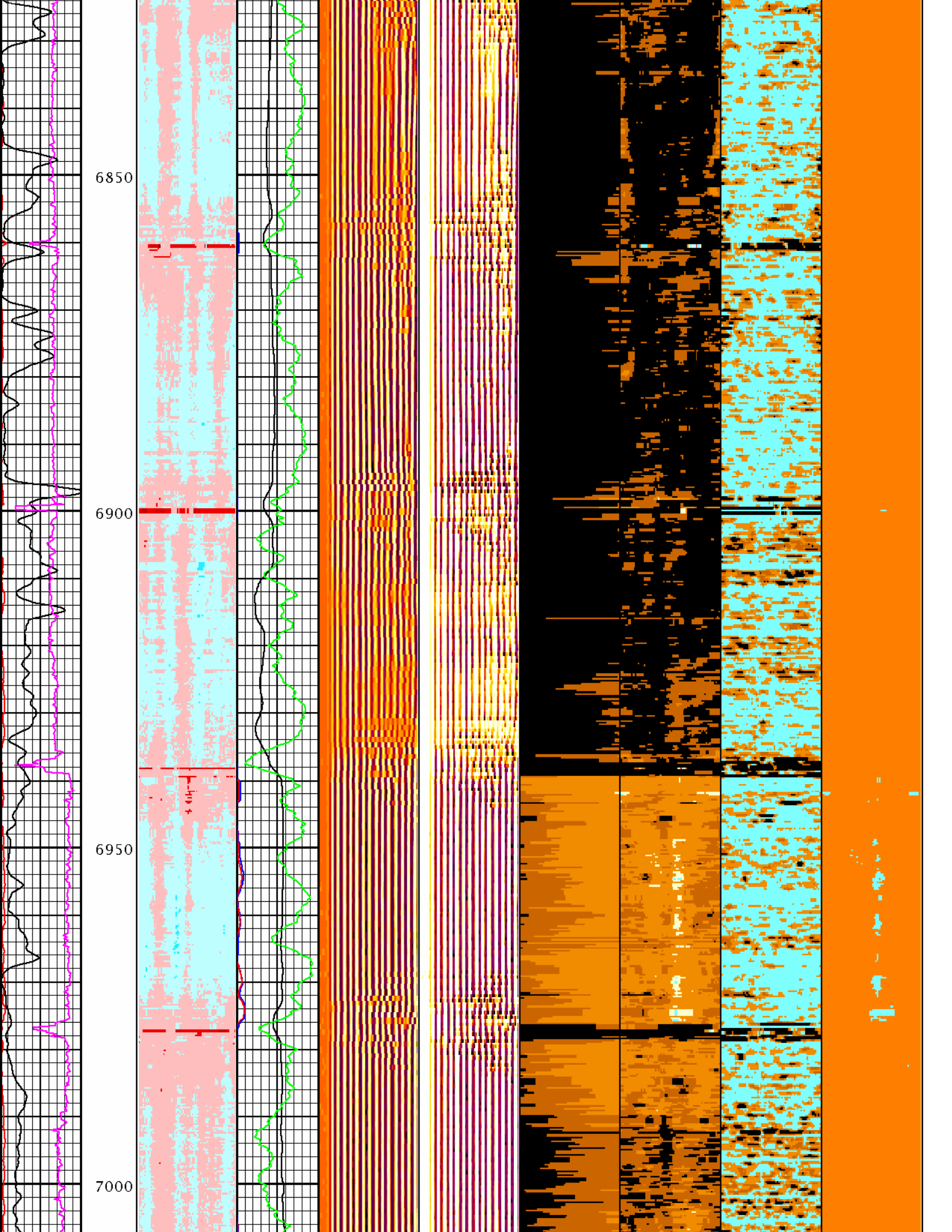


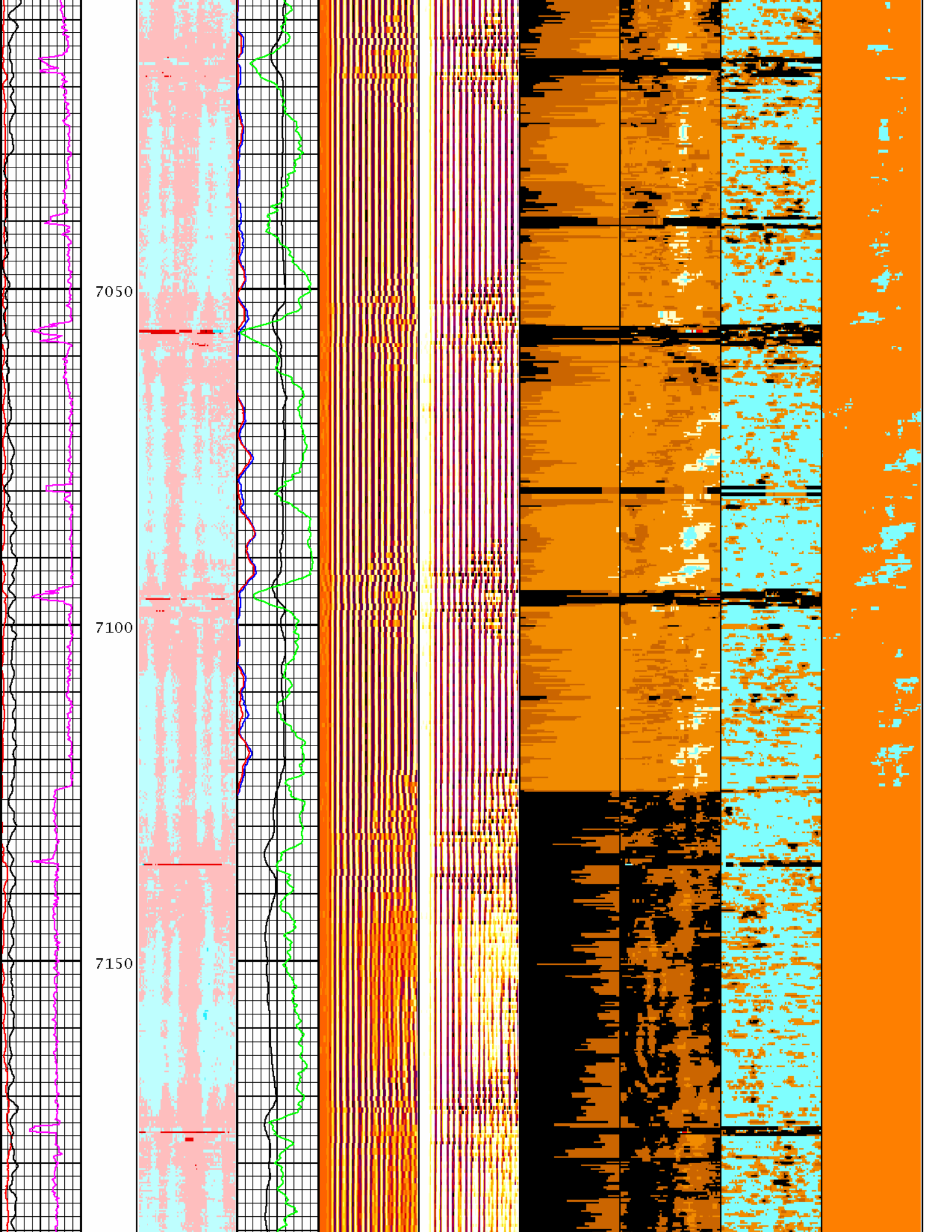




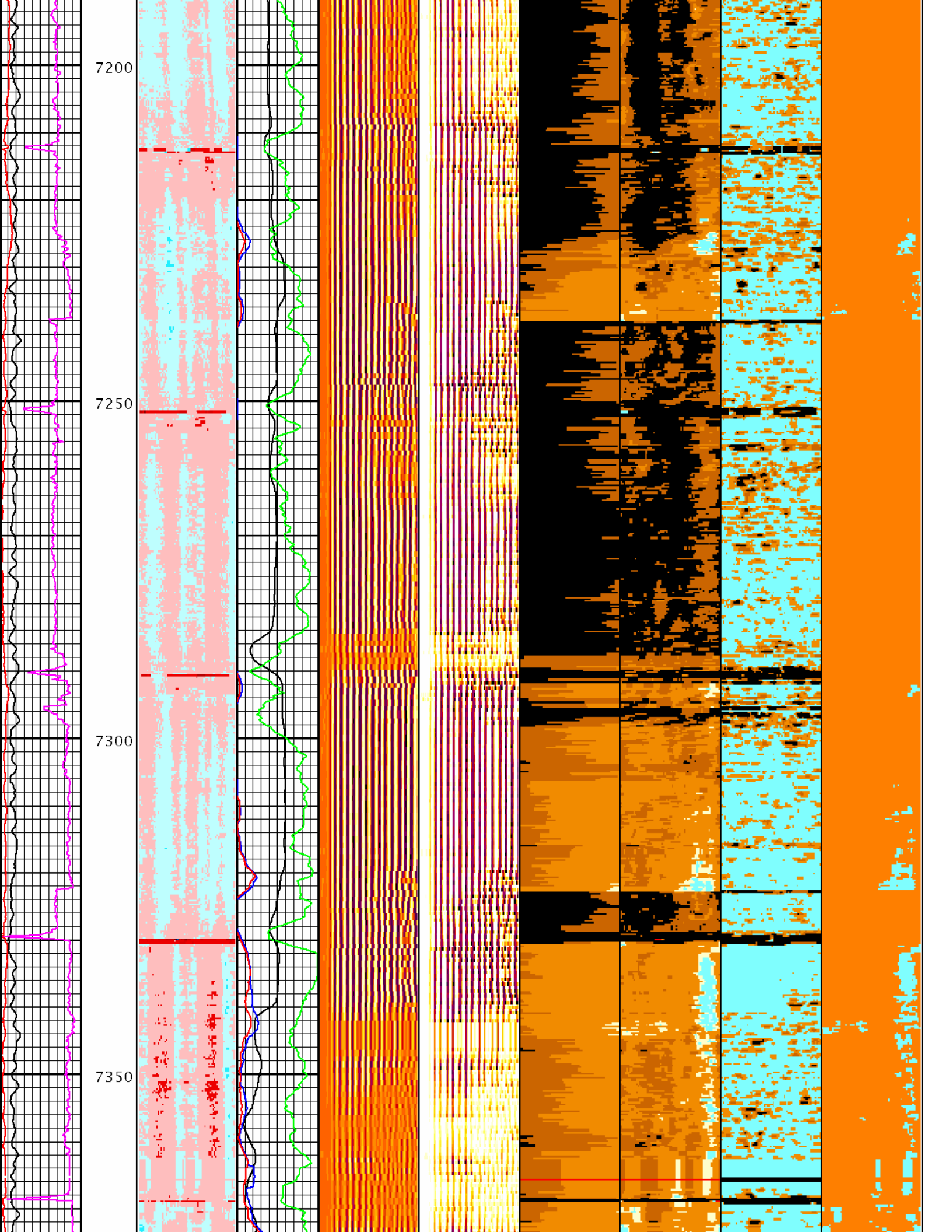




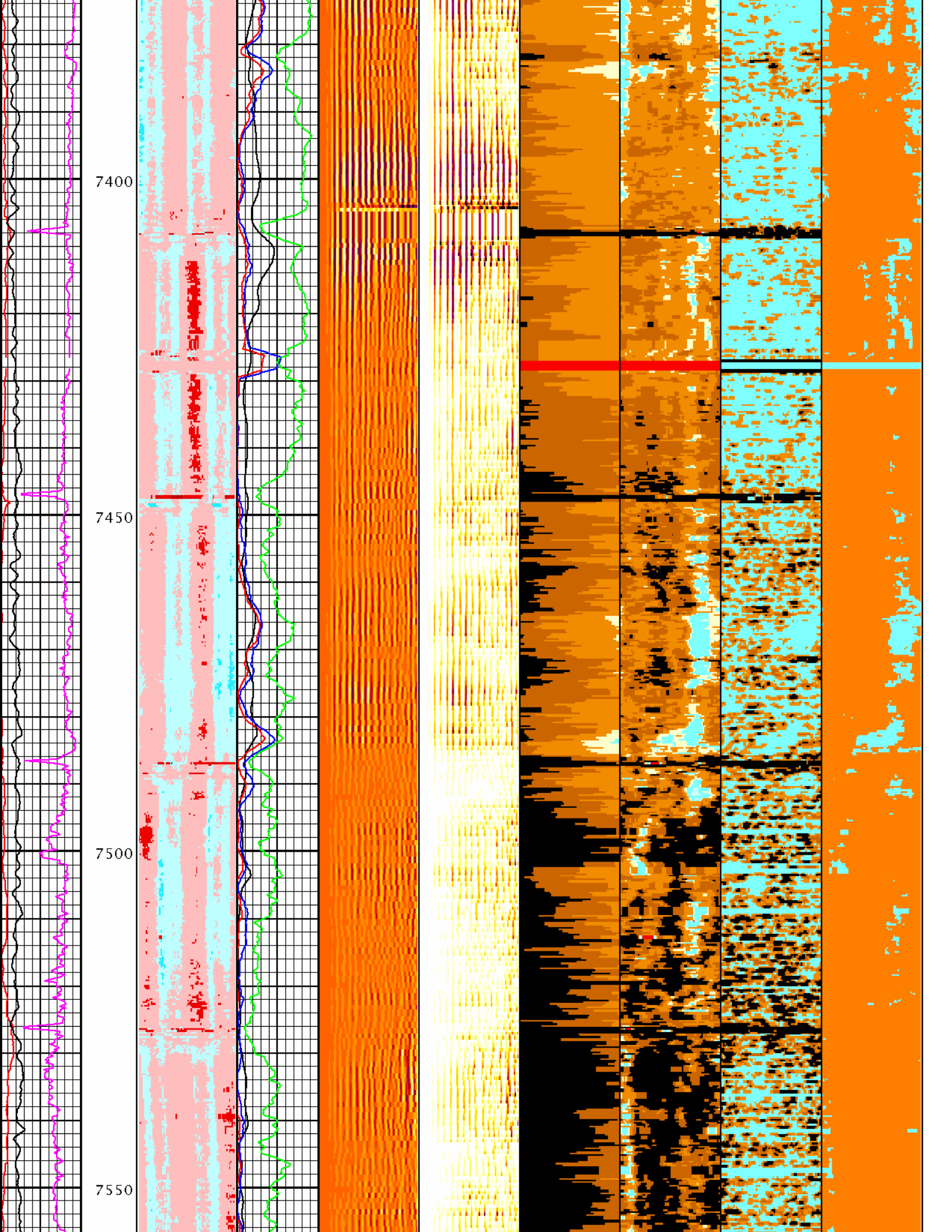


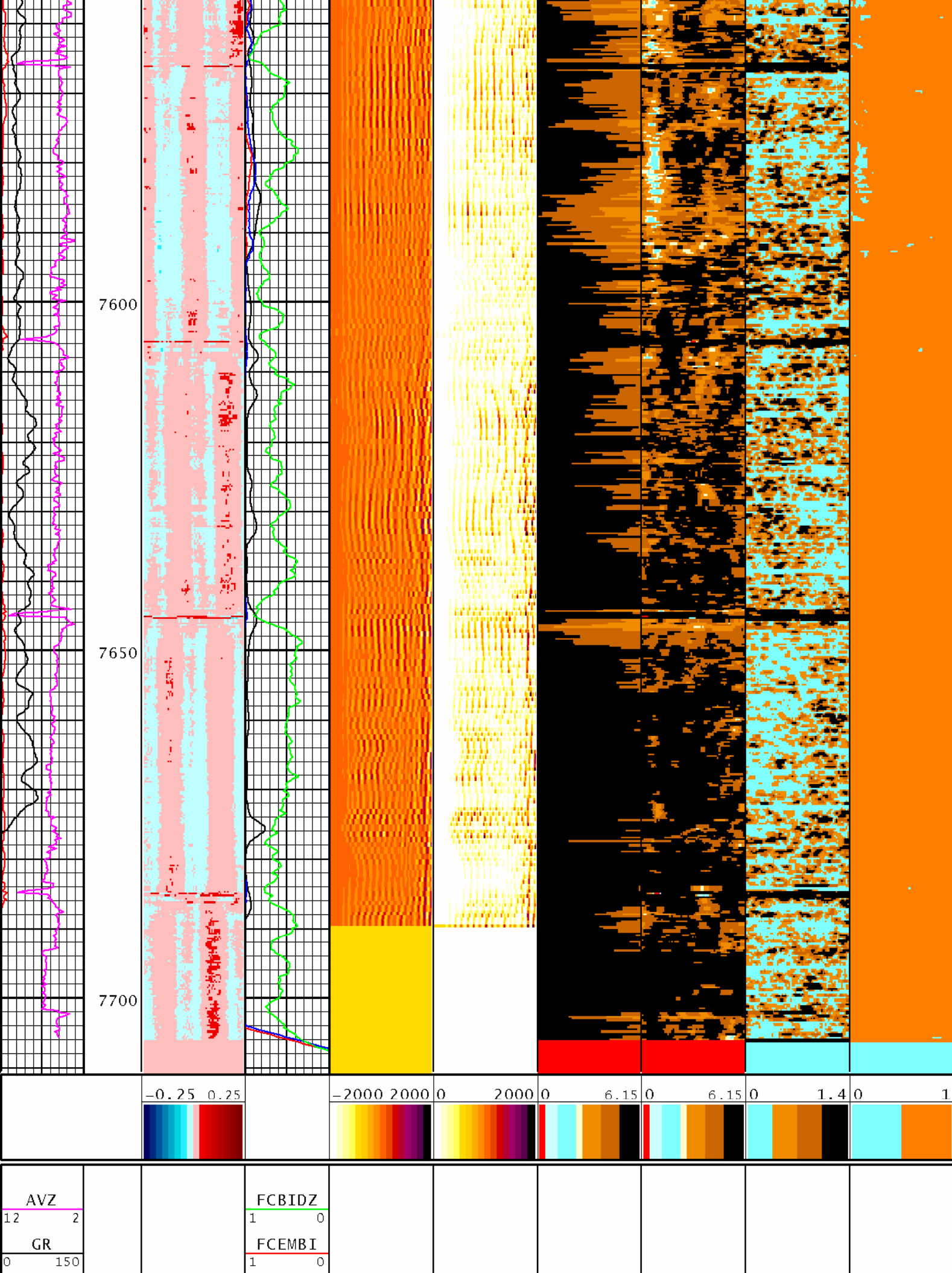












OVAL		1:200 FT.	FCBI												
0	1		1	0											
ECTY			PRADN	AMP	WMSG	WMSGT	ZPV	ZP	DZ	CEMT					
0	1	0	72	0	100	0	240	0	240	1	72	1	72	1	72

QUALITY TRACK	DEPTH TRACK	RADIUS IMAGE	CEMENT INDEX	CBL MSG	CBL MSG TOTAL	VOLUMETRIC IMPEDANCE	IMPEDANCE MAP	DERIVATIVE MAP	CEMENT TOTAL
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<div> <div>HALLIBURTON</div> <div> Version No:   hc:3.0  Data File: main.cls  Format File: DENVER_ACE.spc  Plot Time: 2013-11-24 23:49:56  Database Time: 23:11:59 </div> <div> Top Depth: 0.00  Bottom Depth: 7711.25 </div> </div>												
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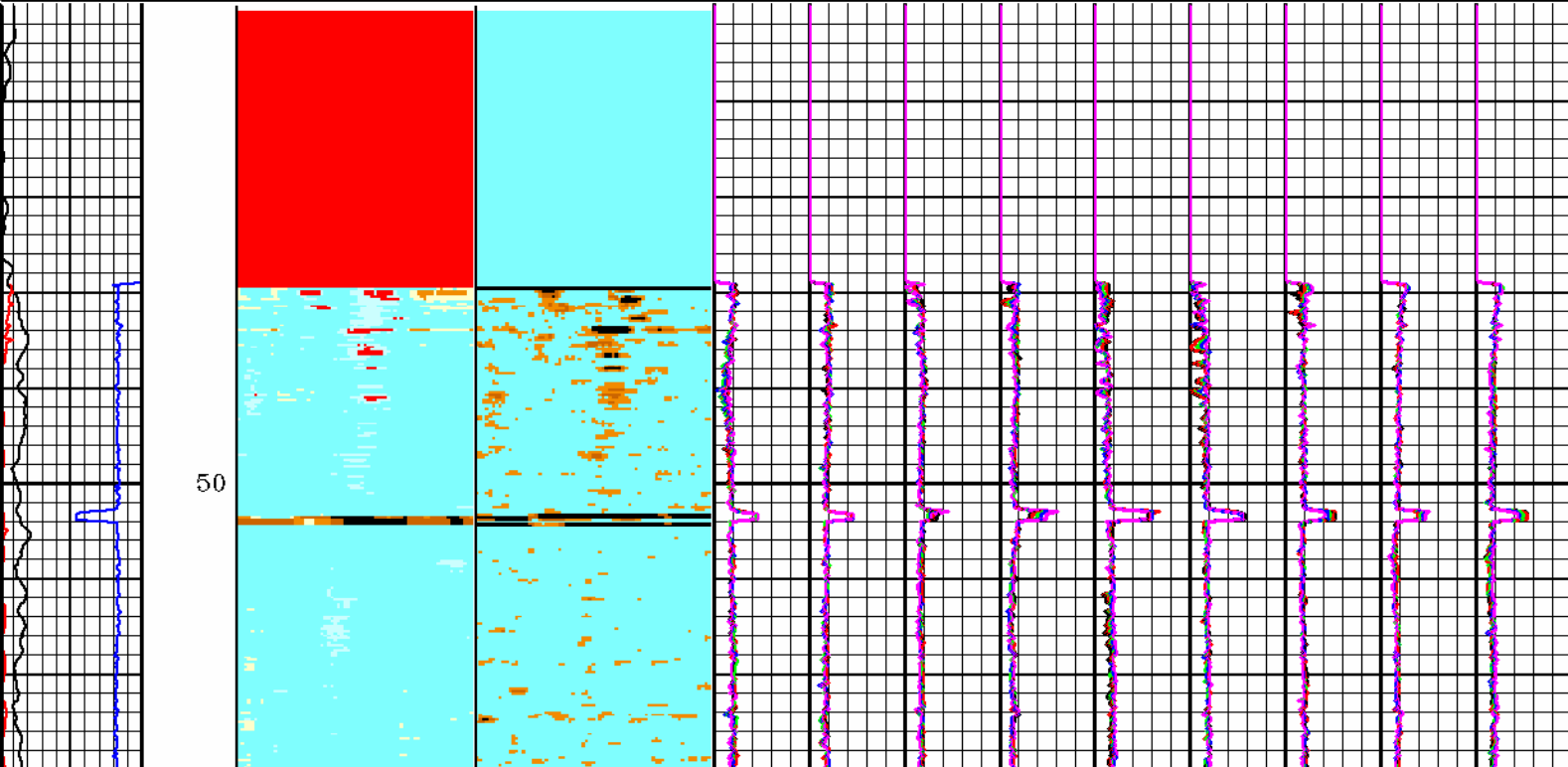
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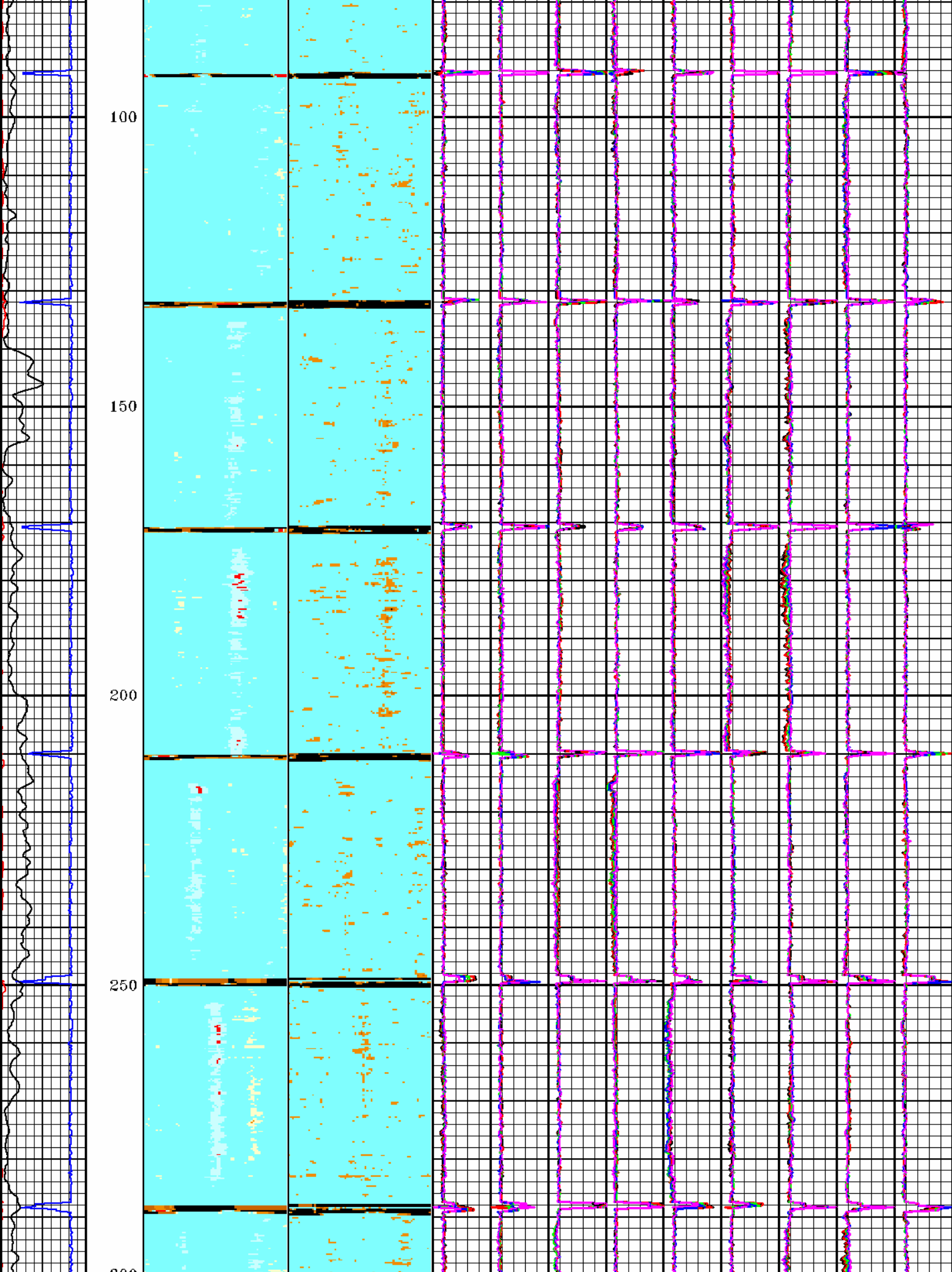
WELLBORE DATA		IMPEDANCE MAP	DZ	SEG. A	SEG. B	SEG. C	SEG. D	SEG. E	SEG. F	SEG. G	SEG. H	SEG. I
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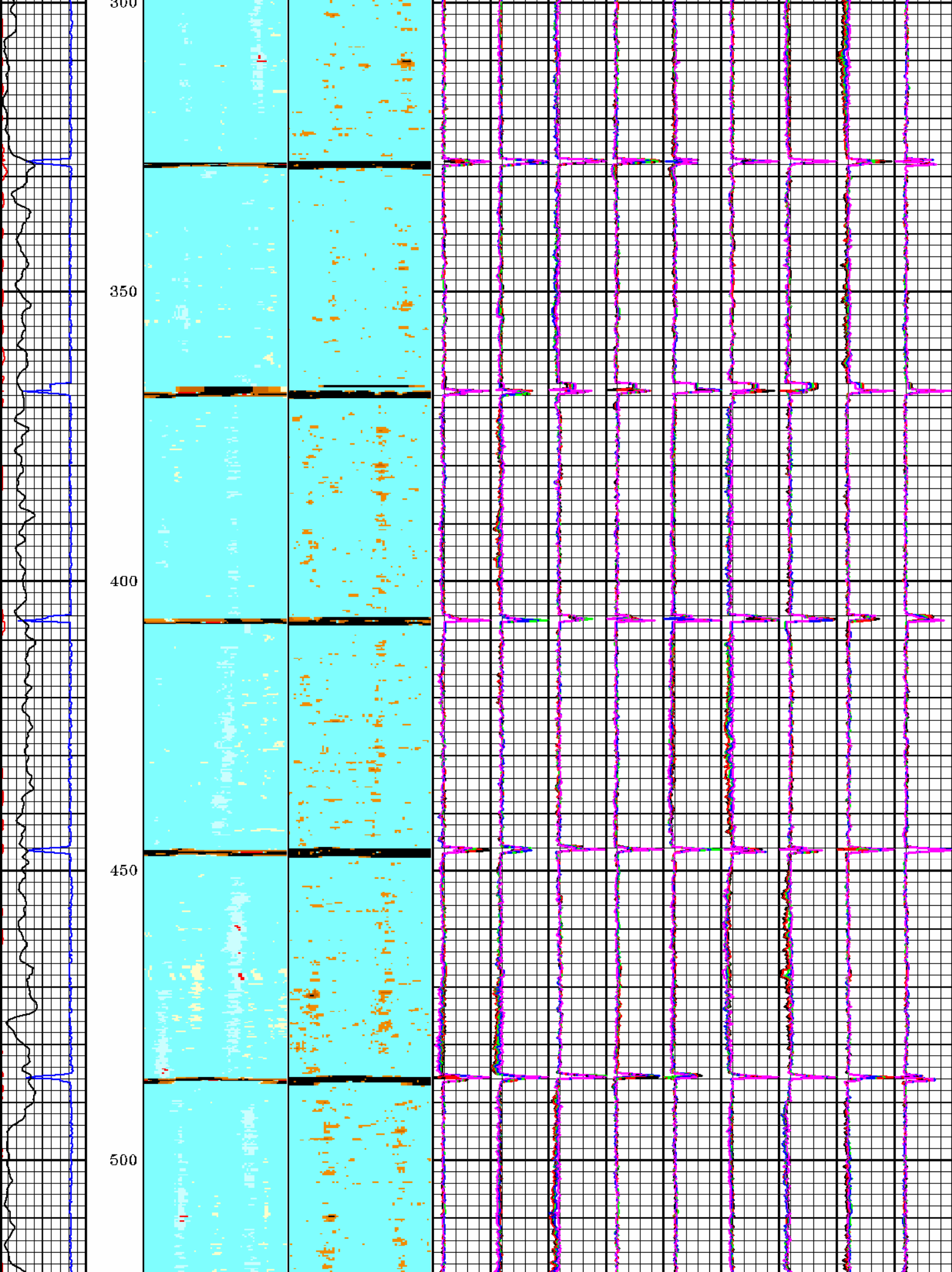
ECTY												
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ZAVG	1:240 FT.	ZP	DZ	CA1	CB1	CC1	CD1	CE1	CF1	CG1	CH1	CI1	
0	0	1	72	0	100	0	100	0	100	0	100	0	100
GR	150			CA2	CB2	CC2	CD2	CE2	CF2	CG2	CH2	CI2	
0	0			0	100	0	100	0	100	0	100	0	100
OVALITY	1			CA3	CB3	CC3	CD3	CE3	CF3	CG3	CH3	CI3	
0	0			0	100	0	100	0	100	0	100	0	100
ECTY	1			CA4	CB4	CC4	CD4	CE4	CF4	CG4	CH4	CI4	
0	0			0	100	0	100	0	100	0	100	0	100
				CA5	CB5	CC5	CD5	CE5	CF5	CG5	CH5	CI5	
				0	100	0	100	0	100	0	100	0	100

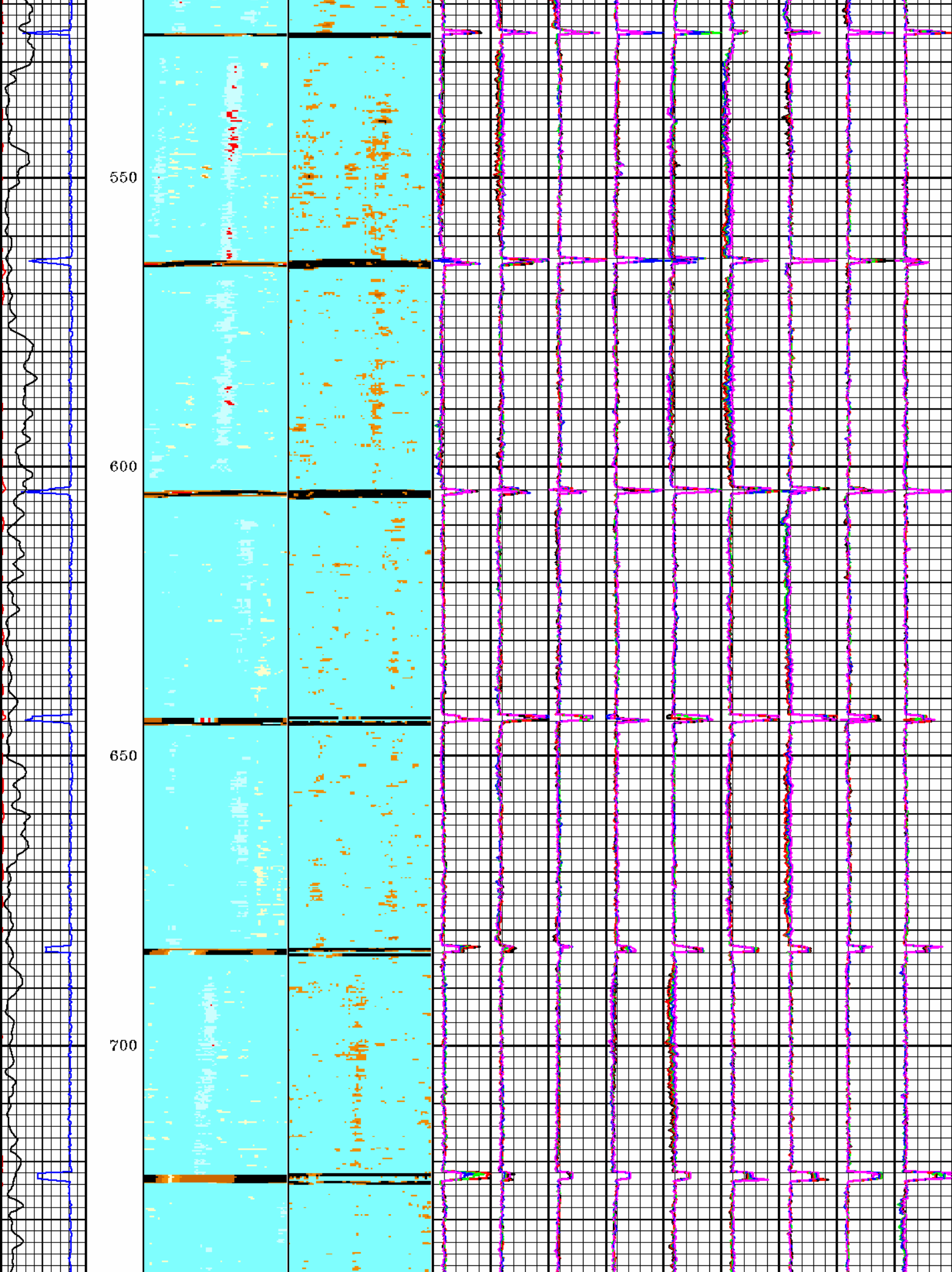
0	6.15	0	1.4

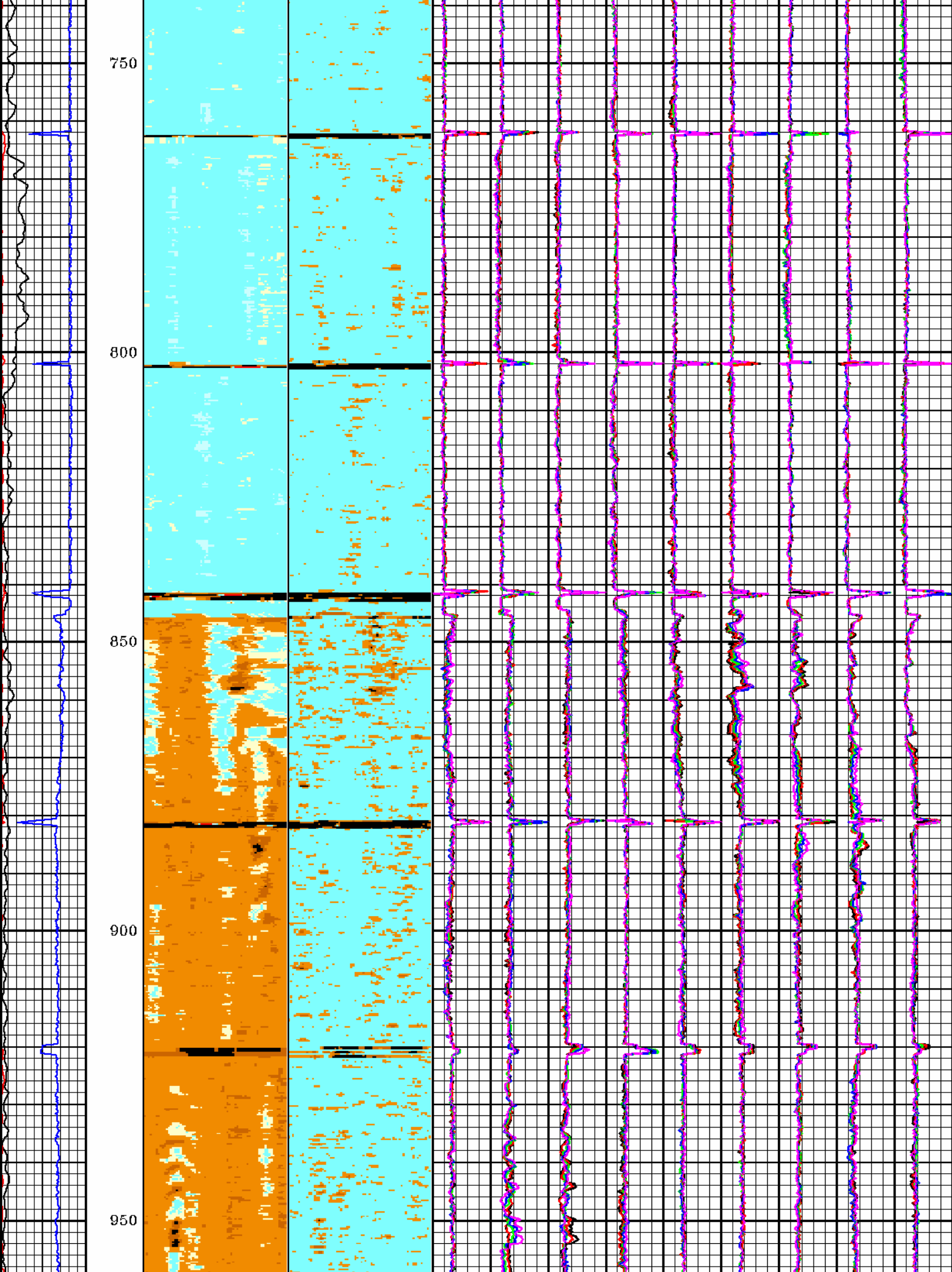


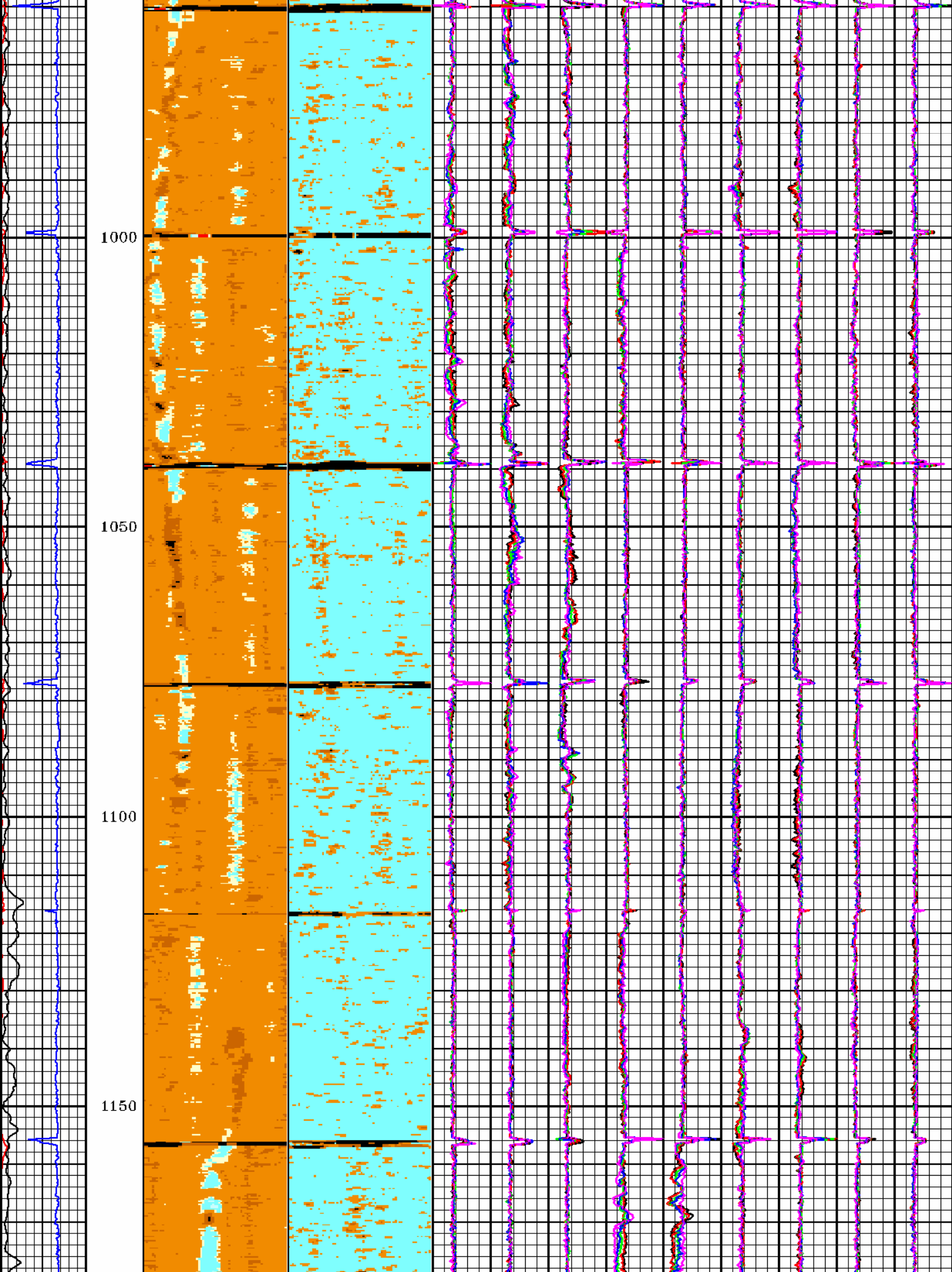


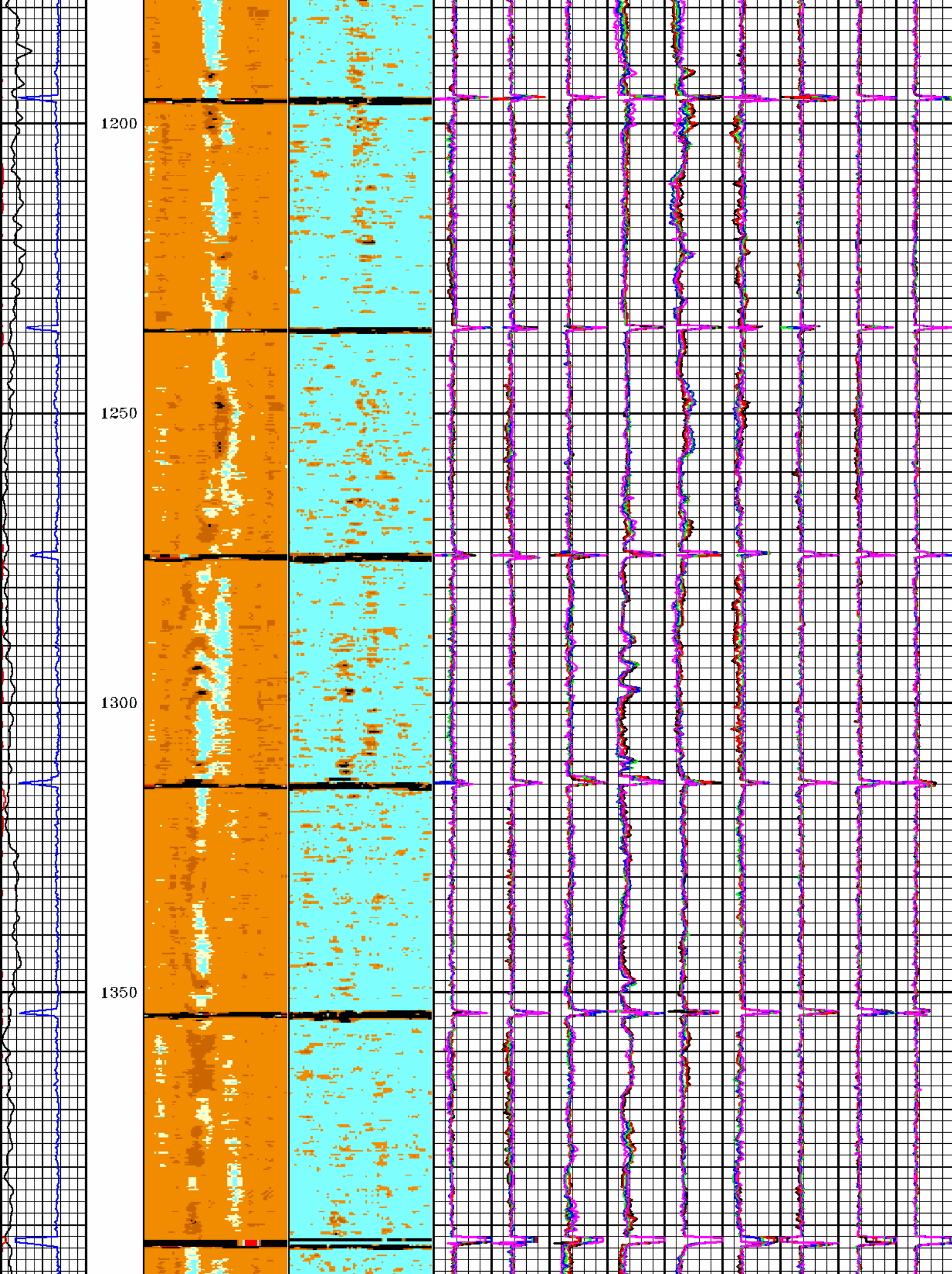




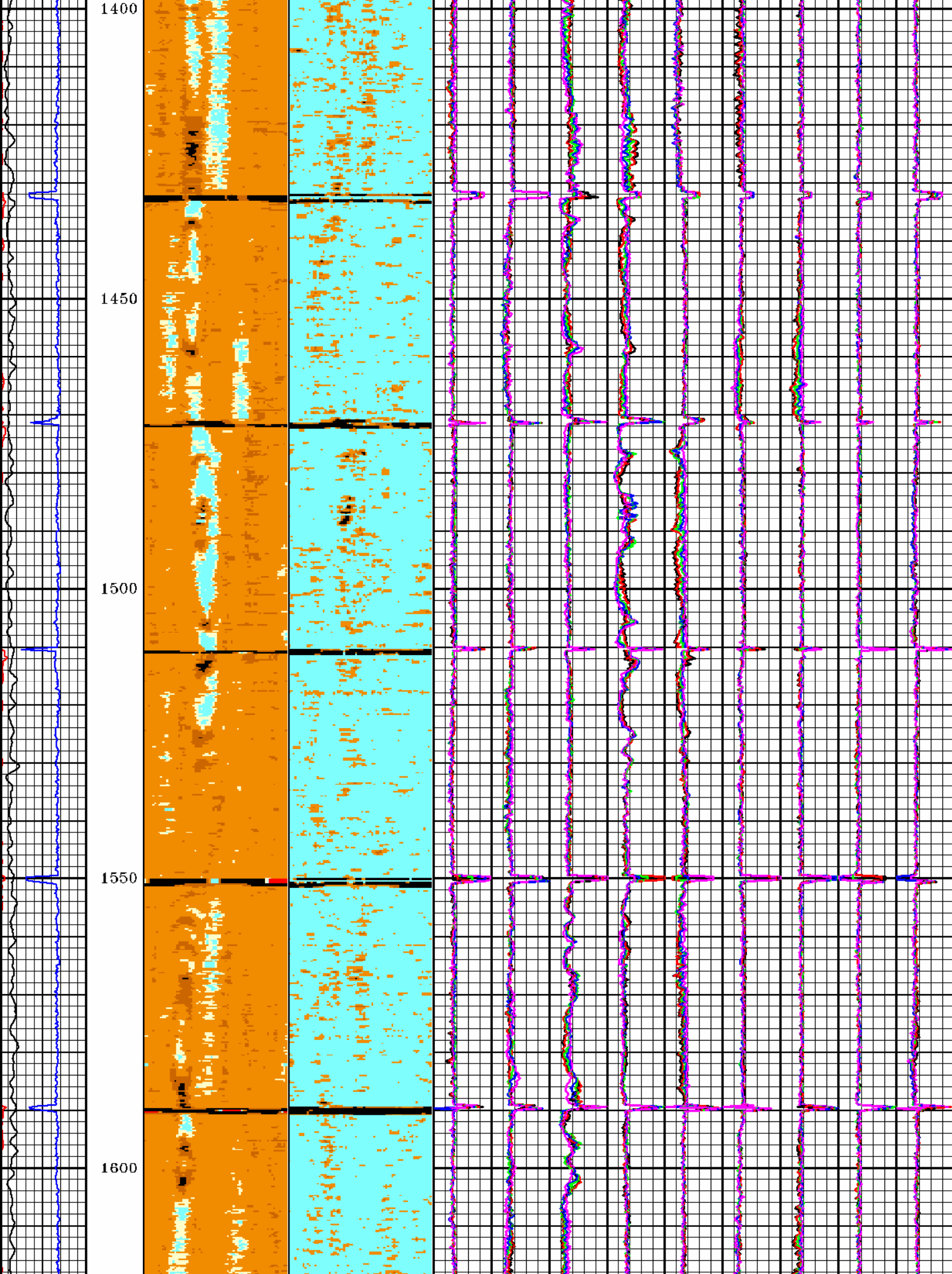




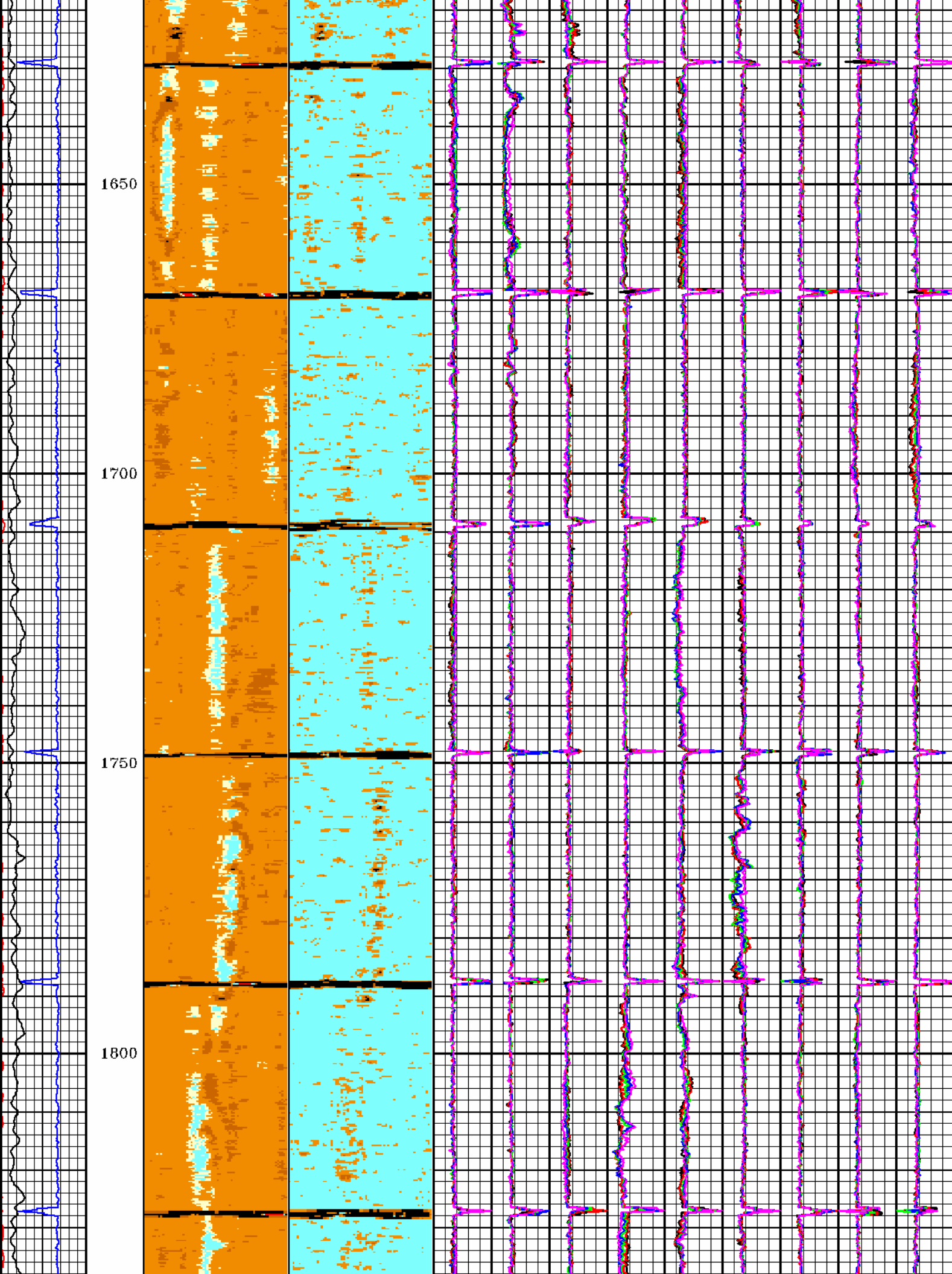


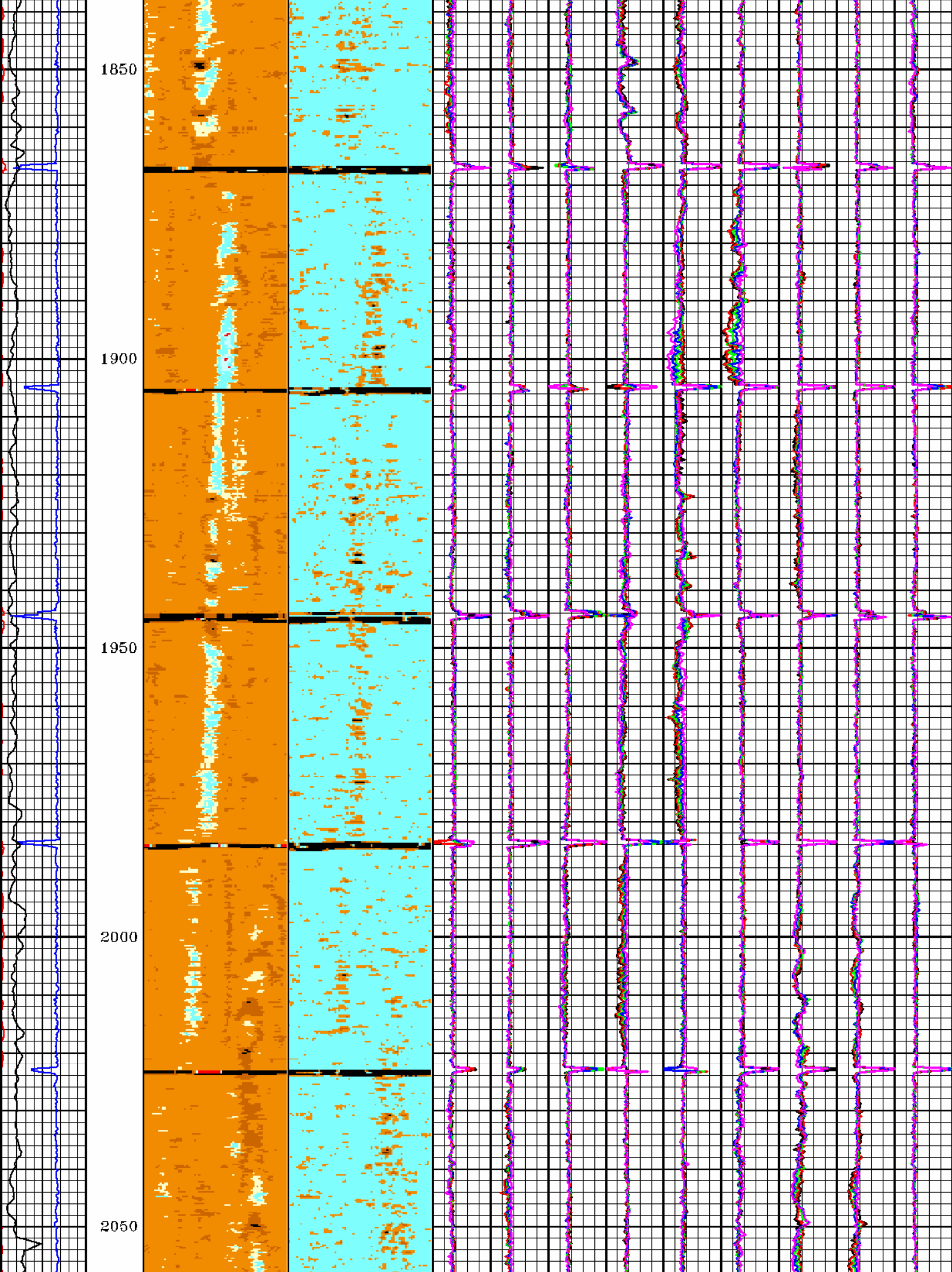


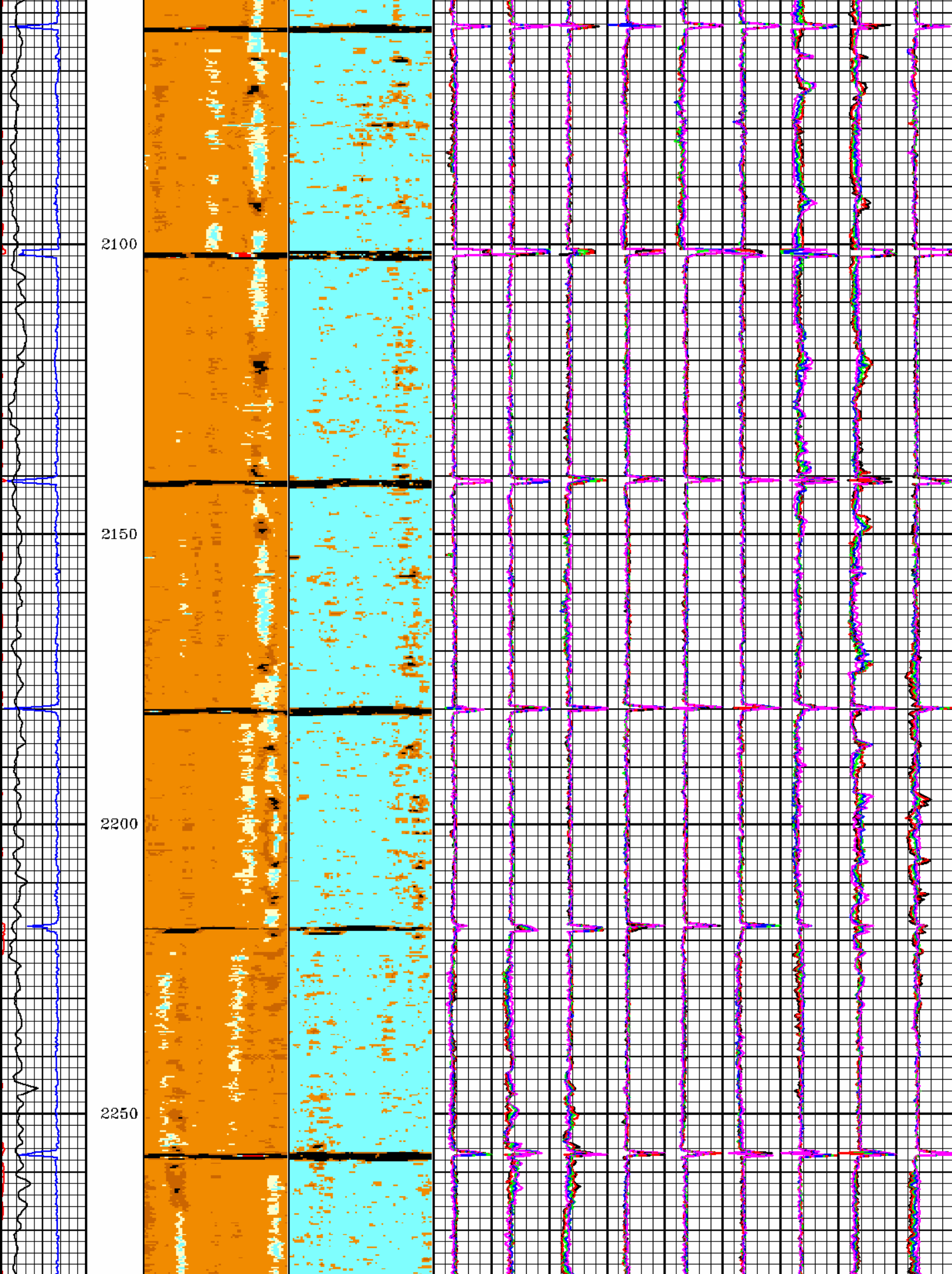




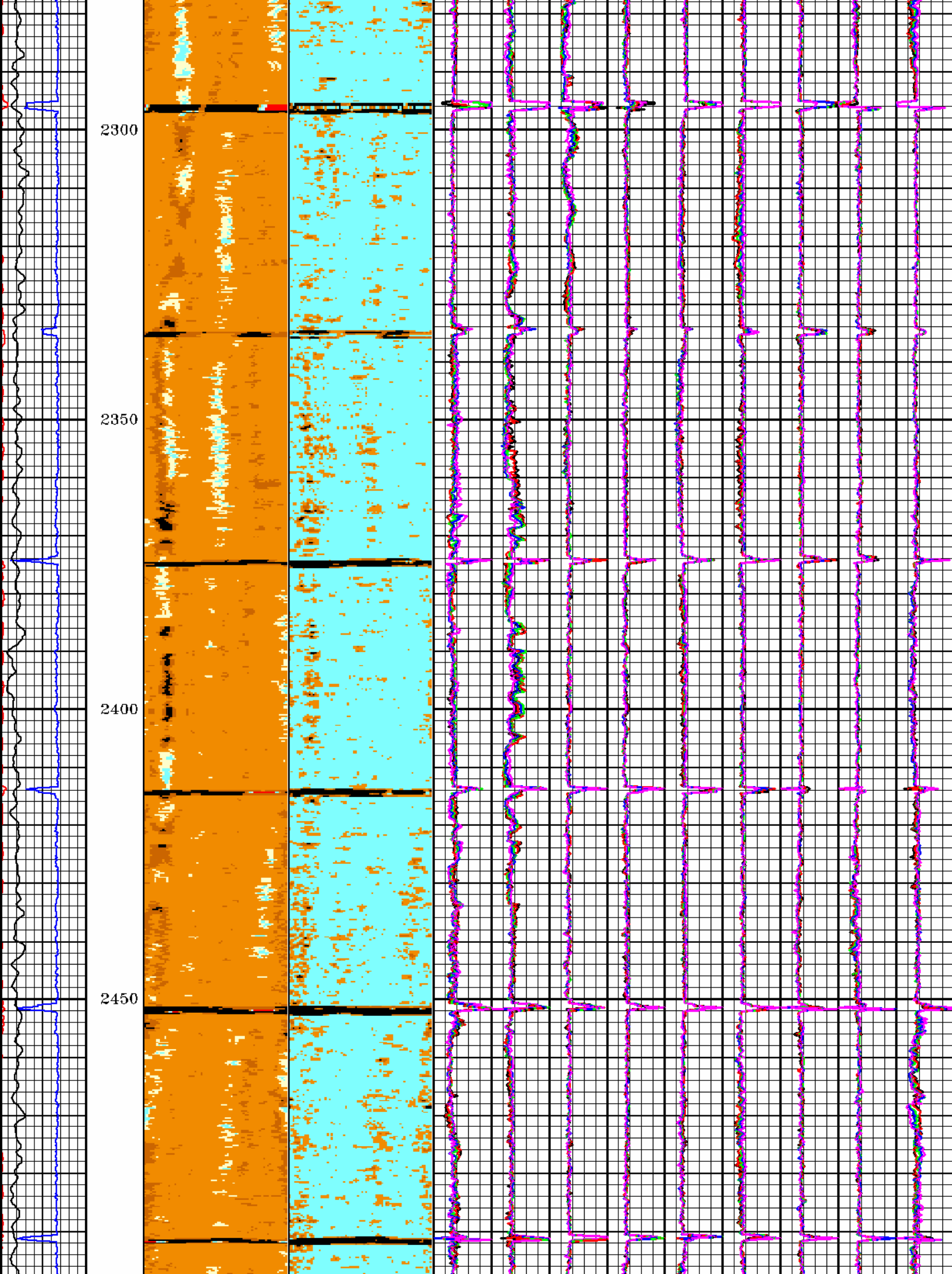




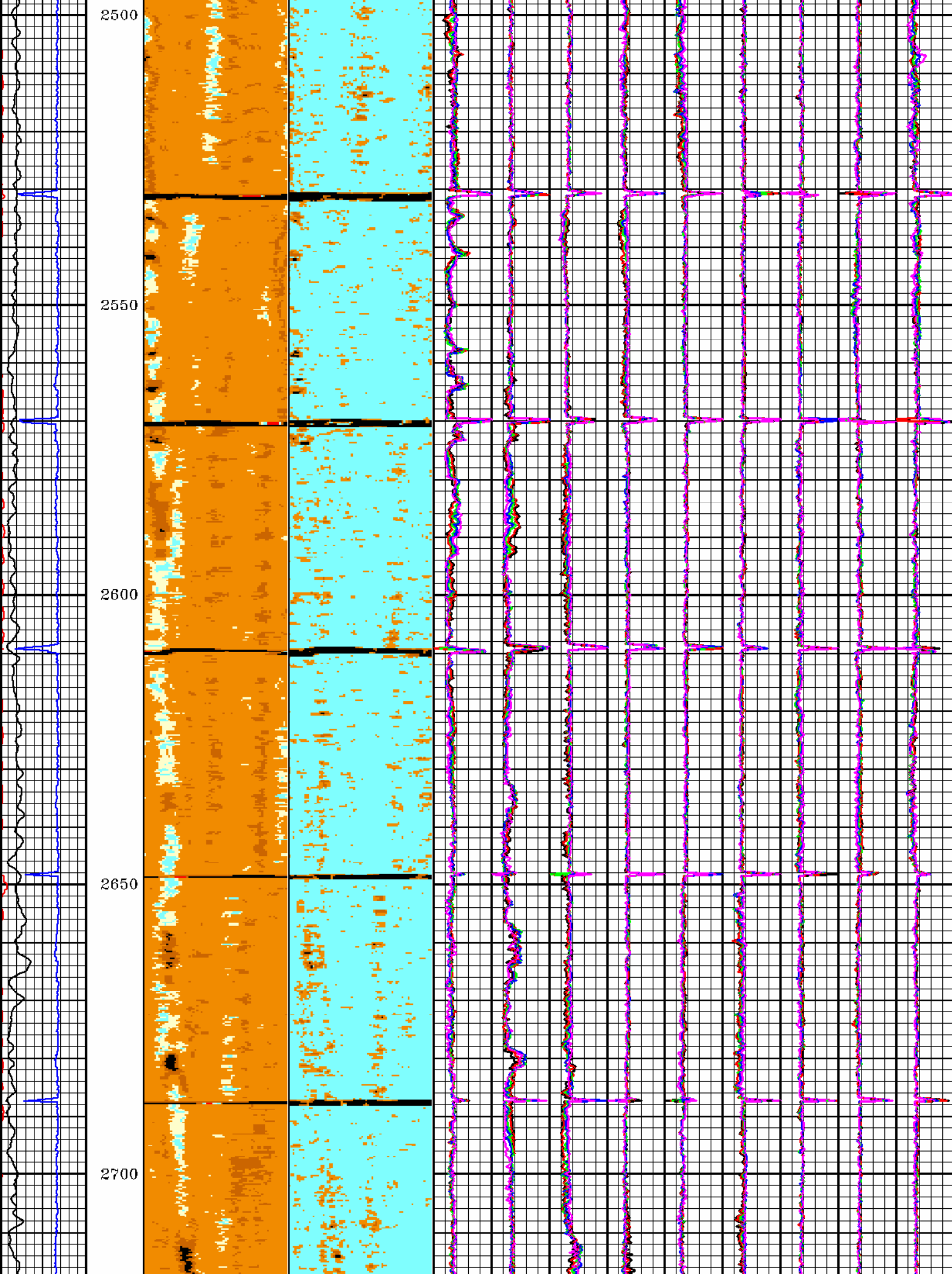


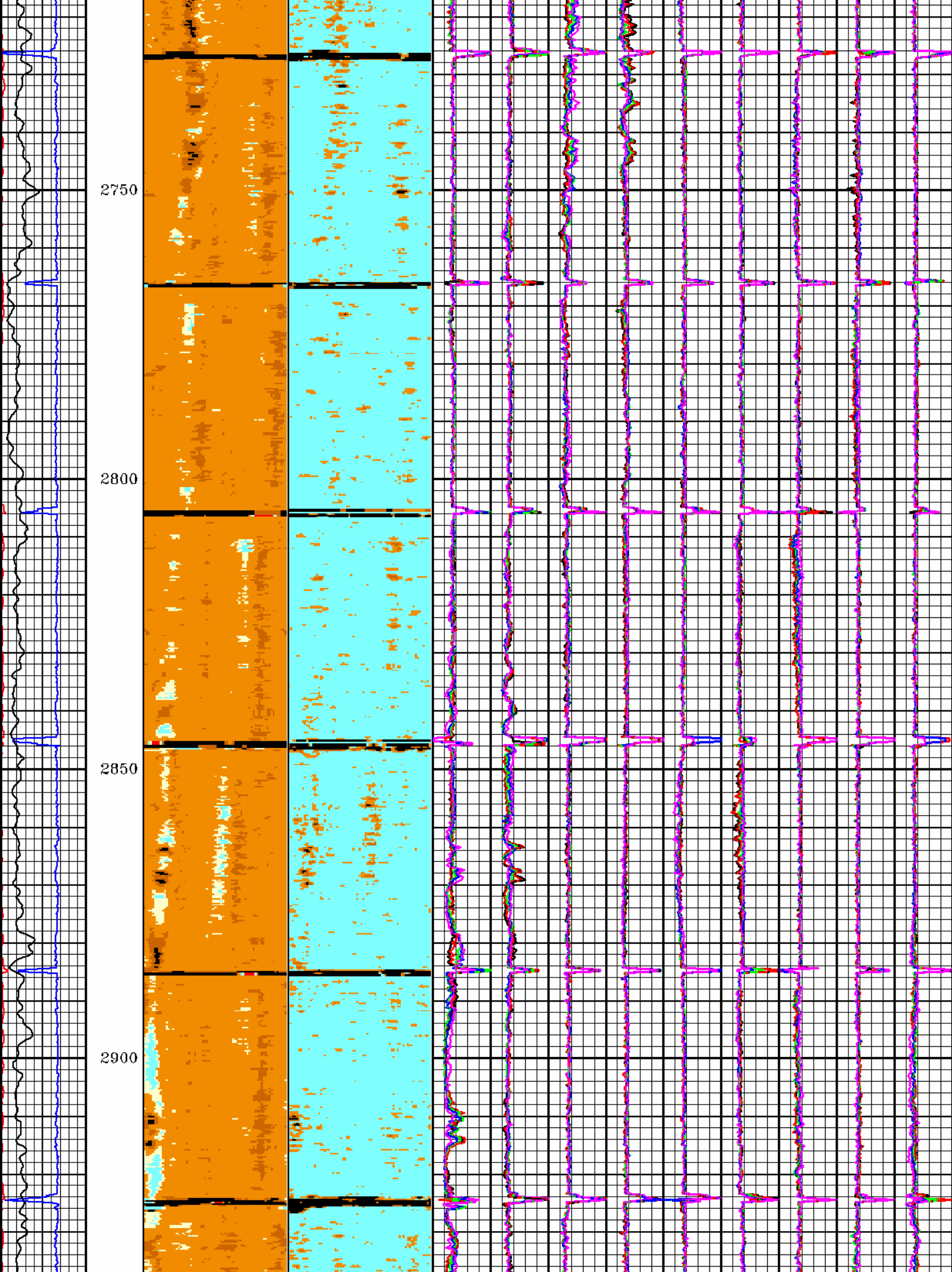


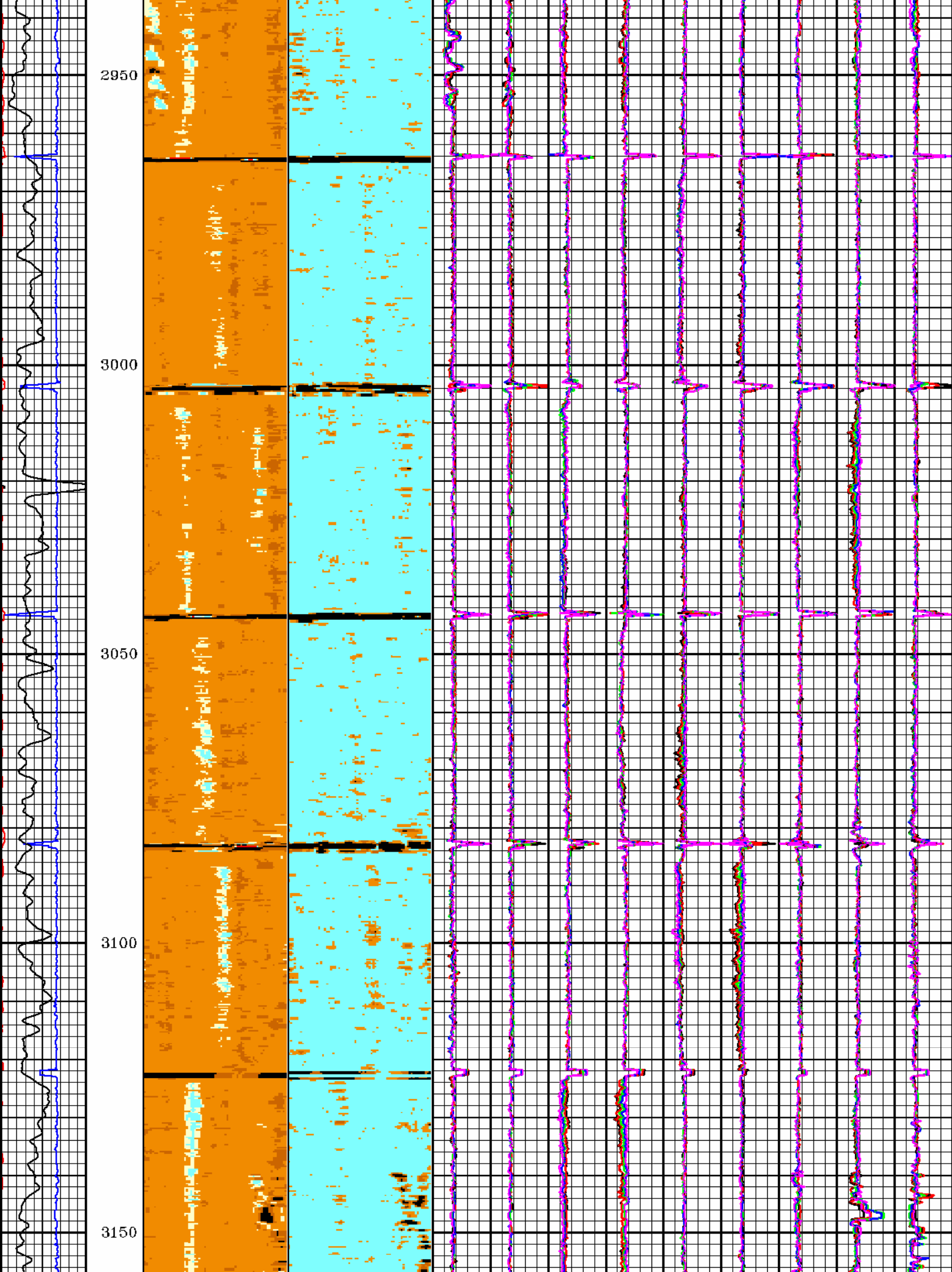


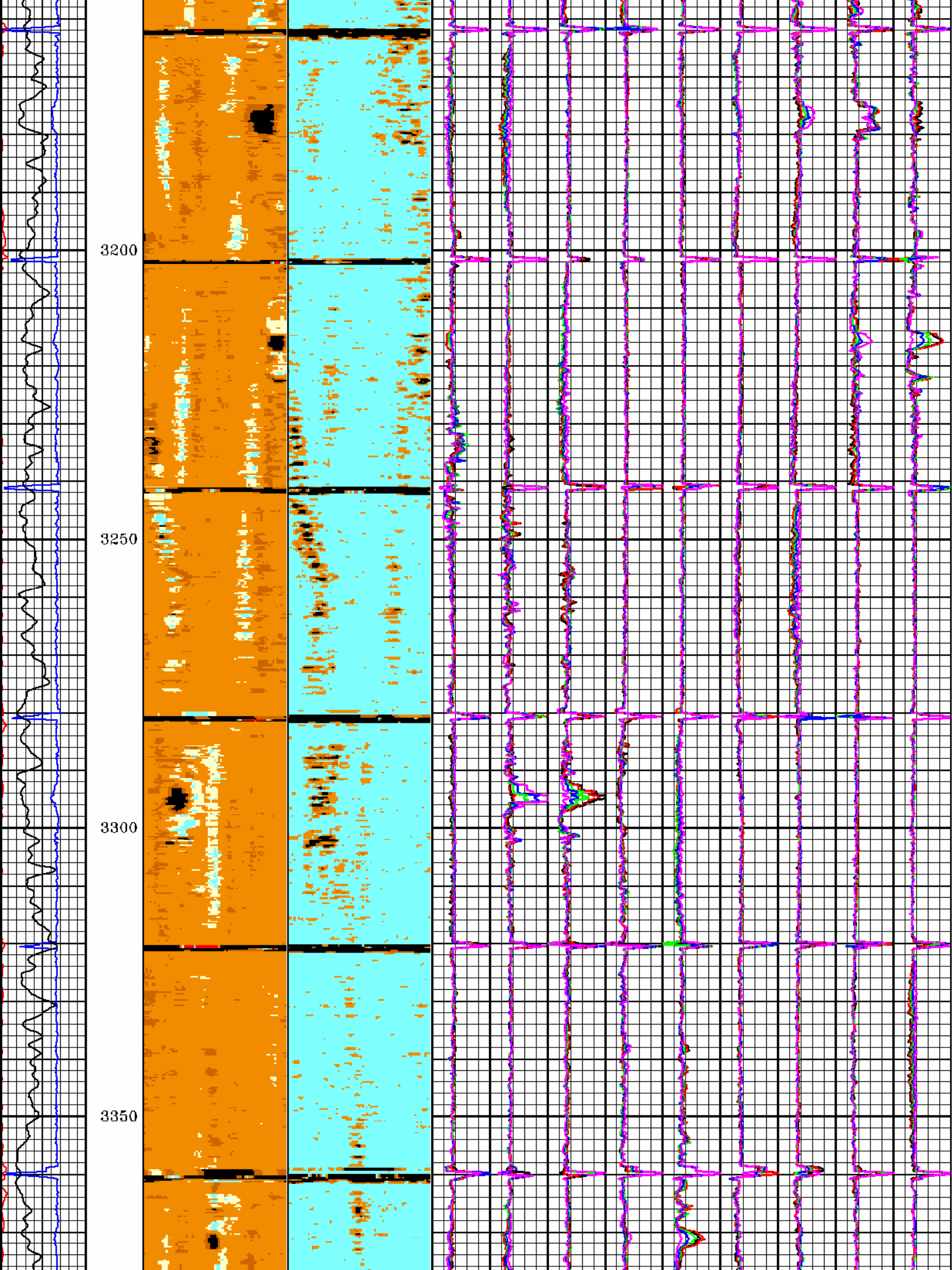




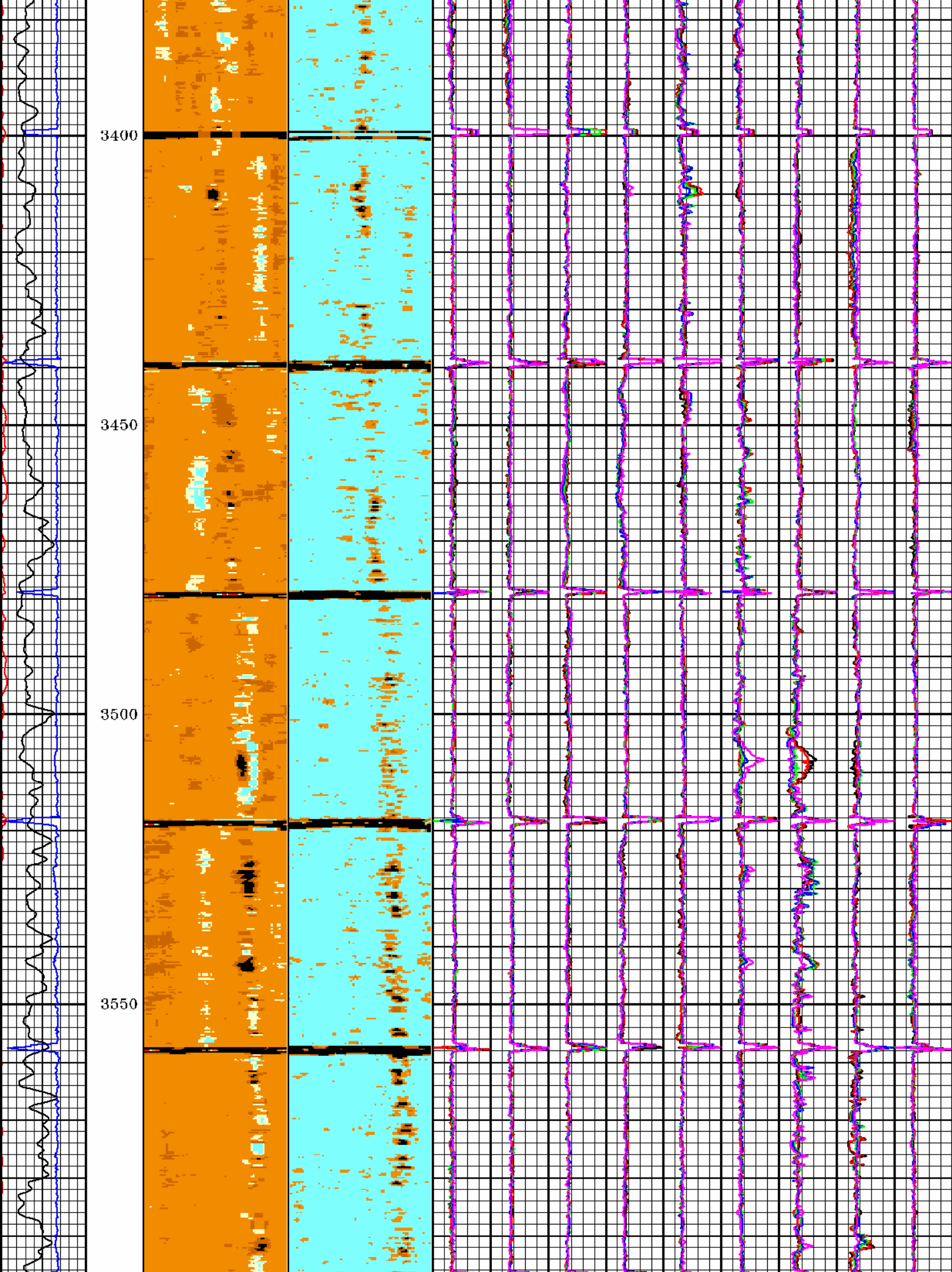


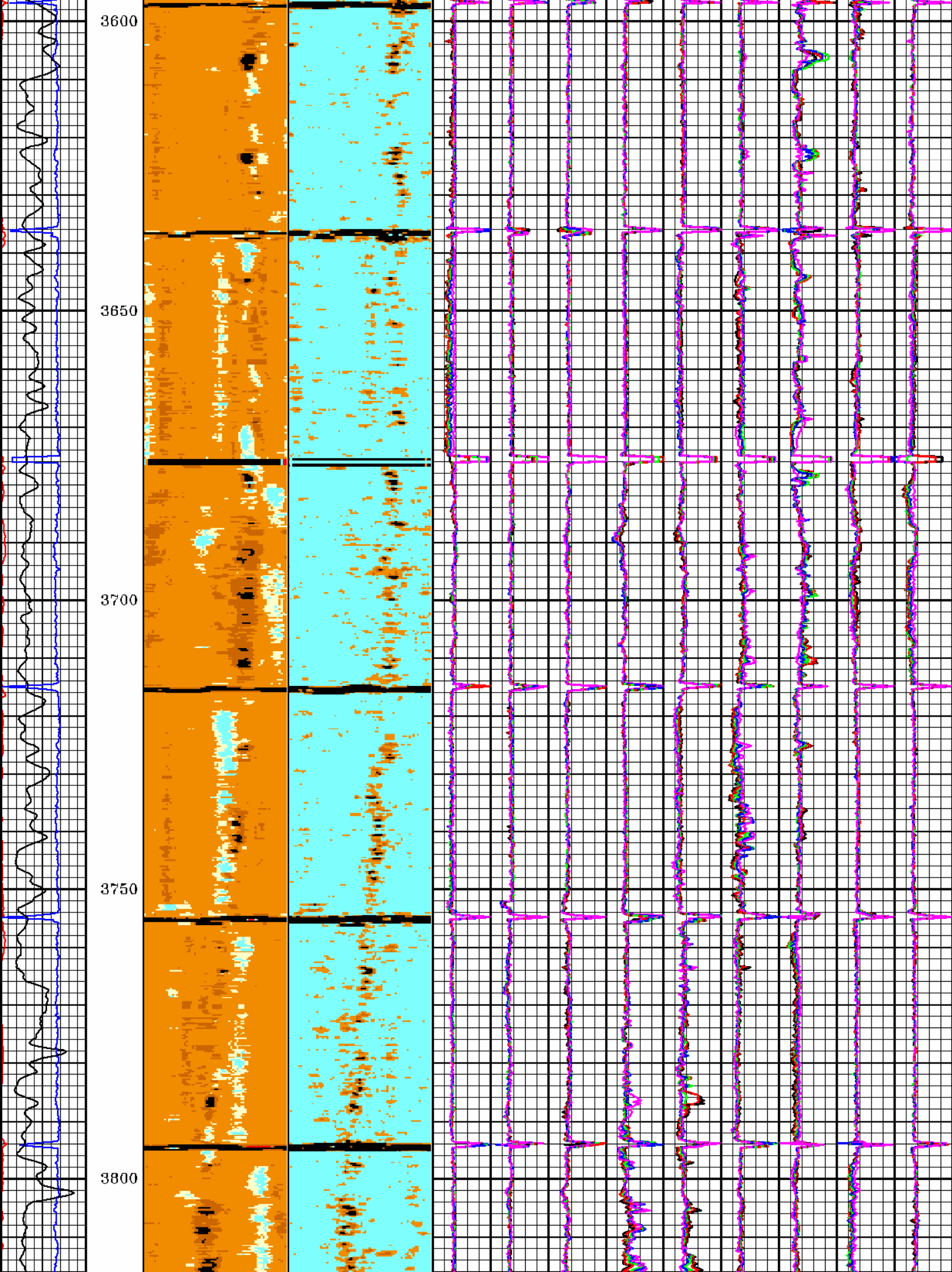


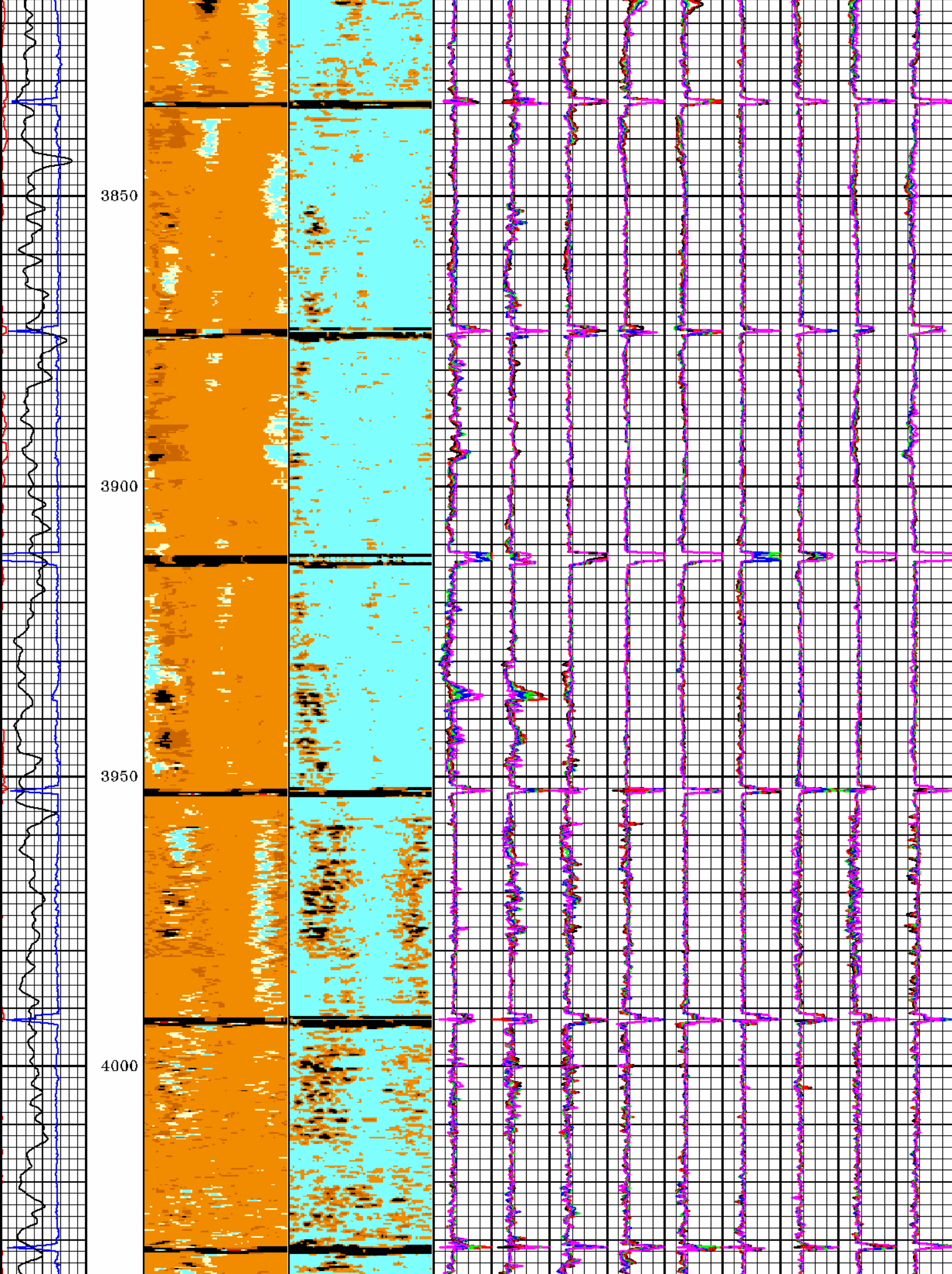




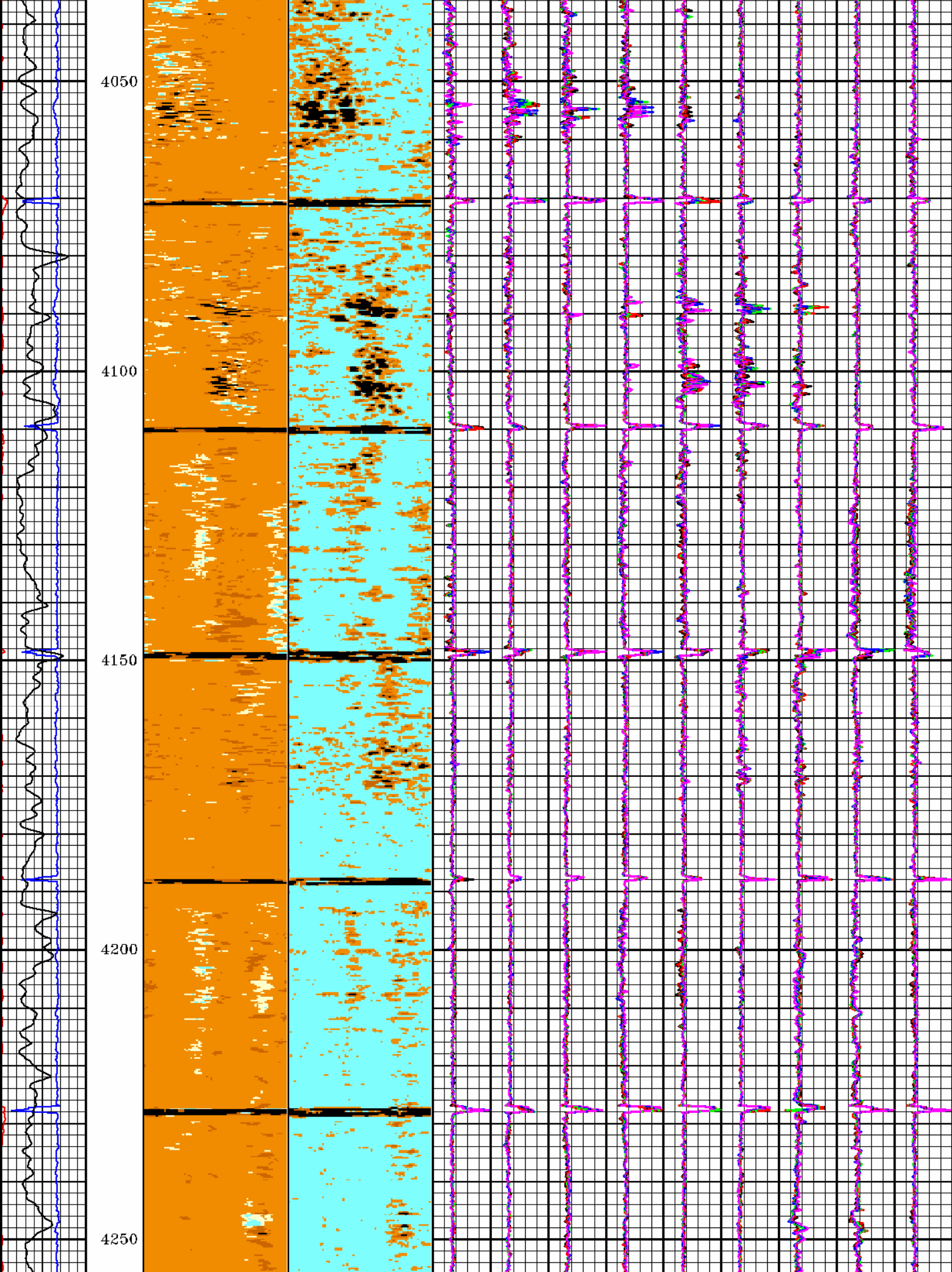




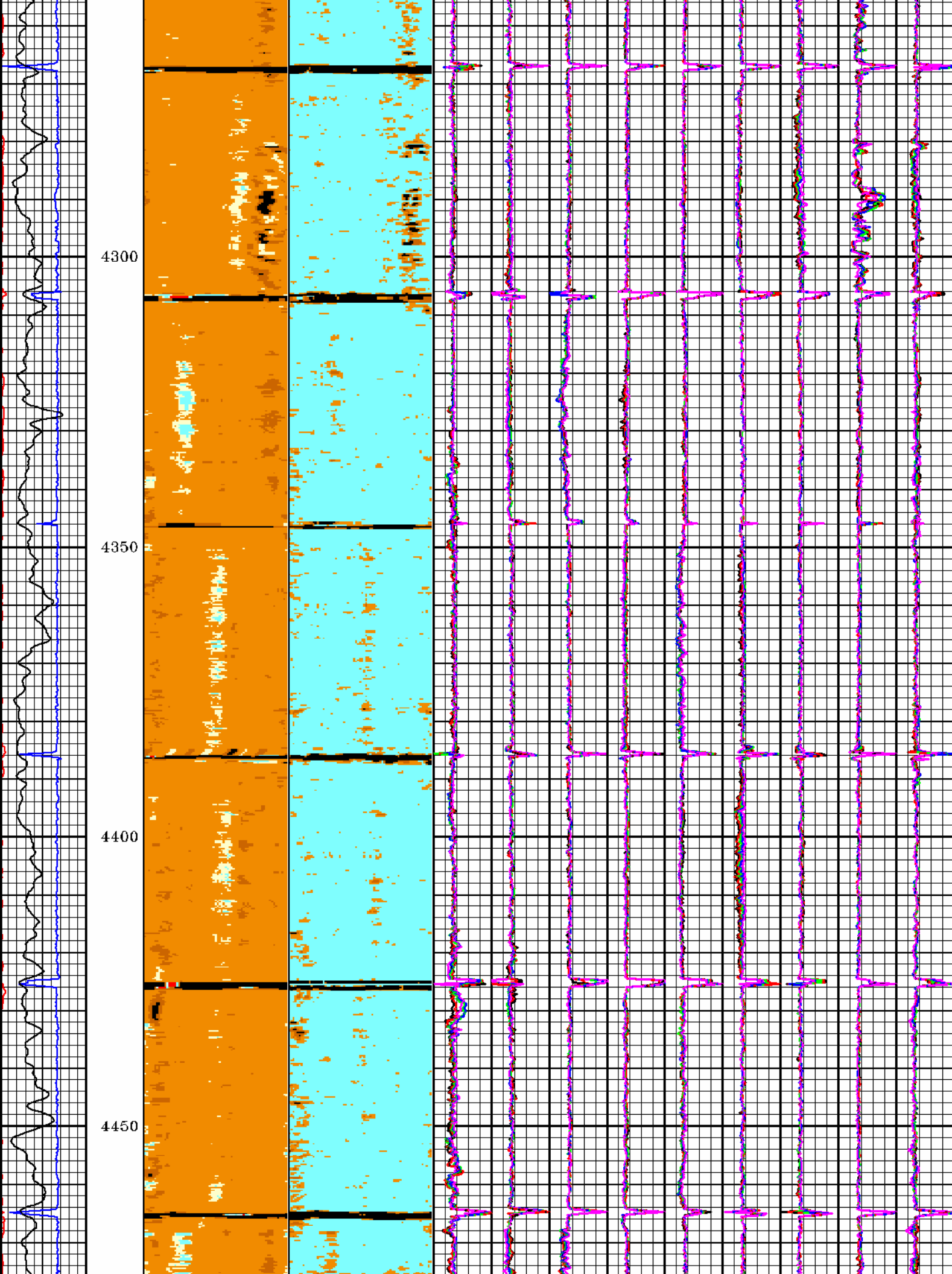


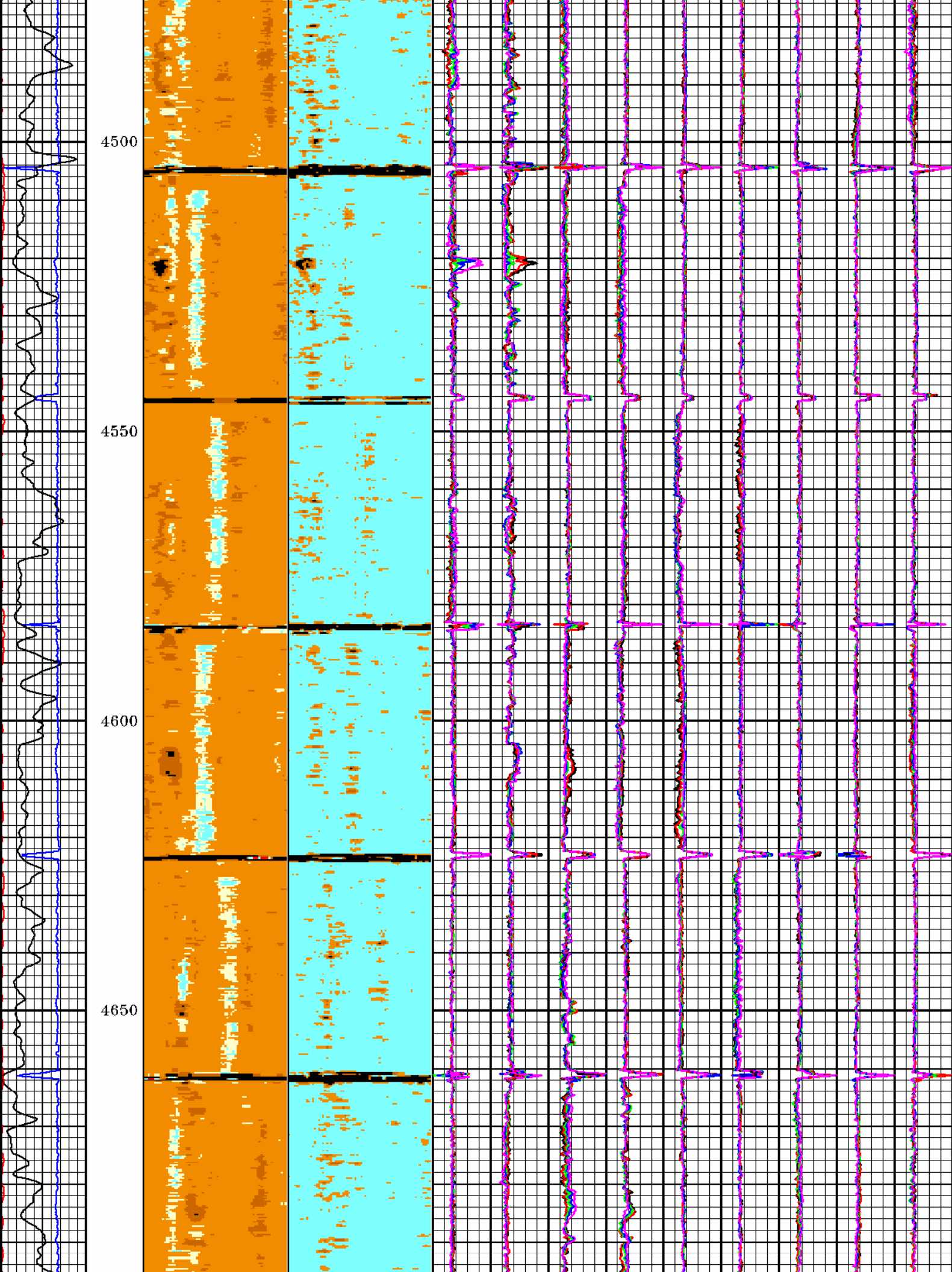


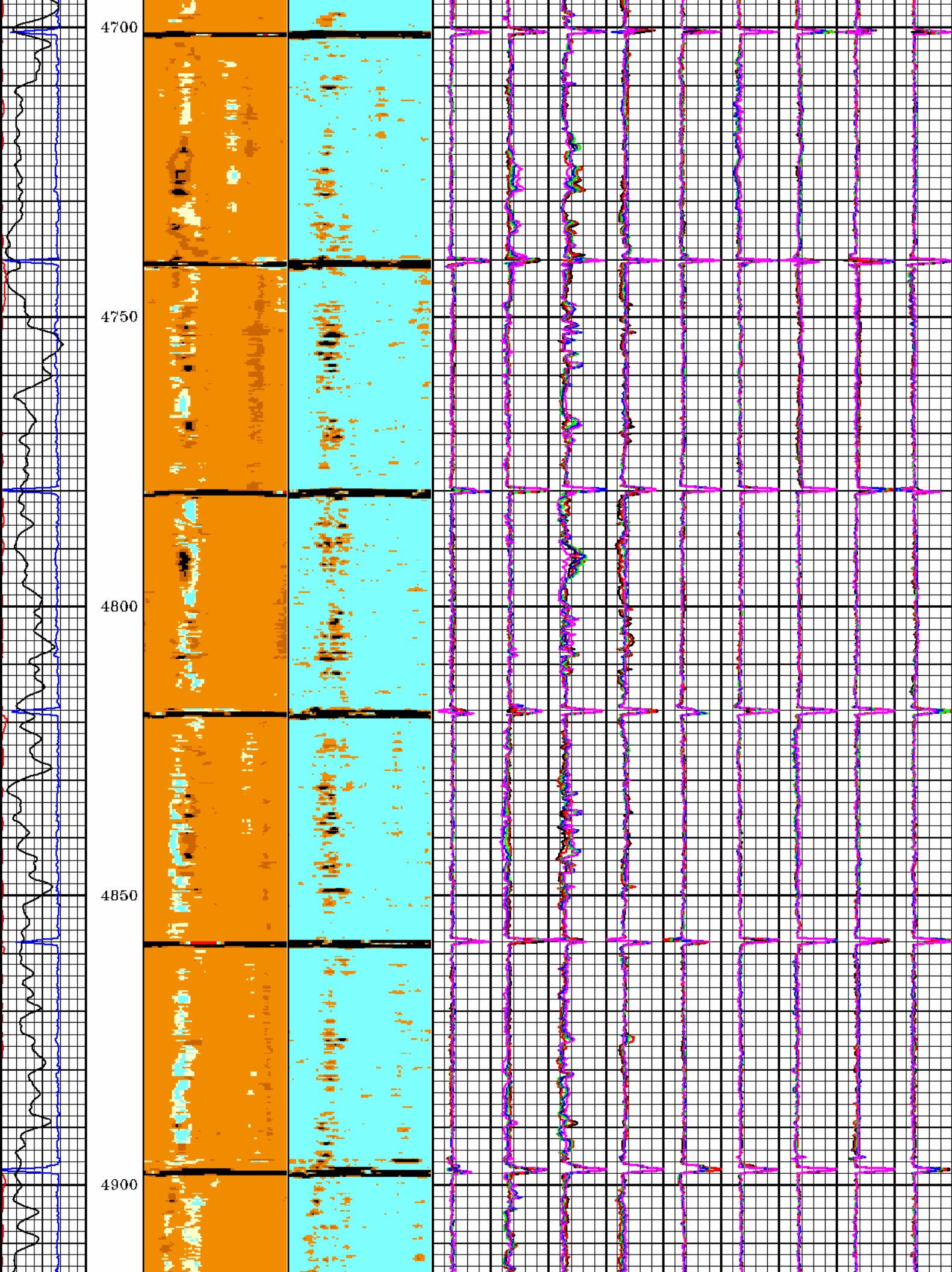


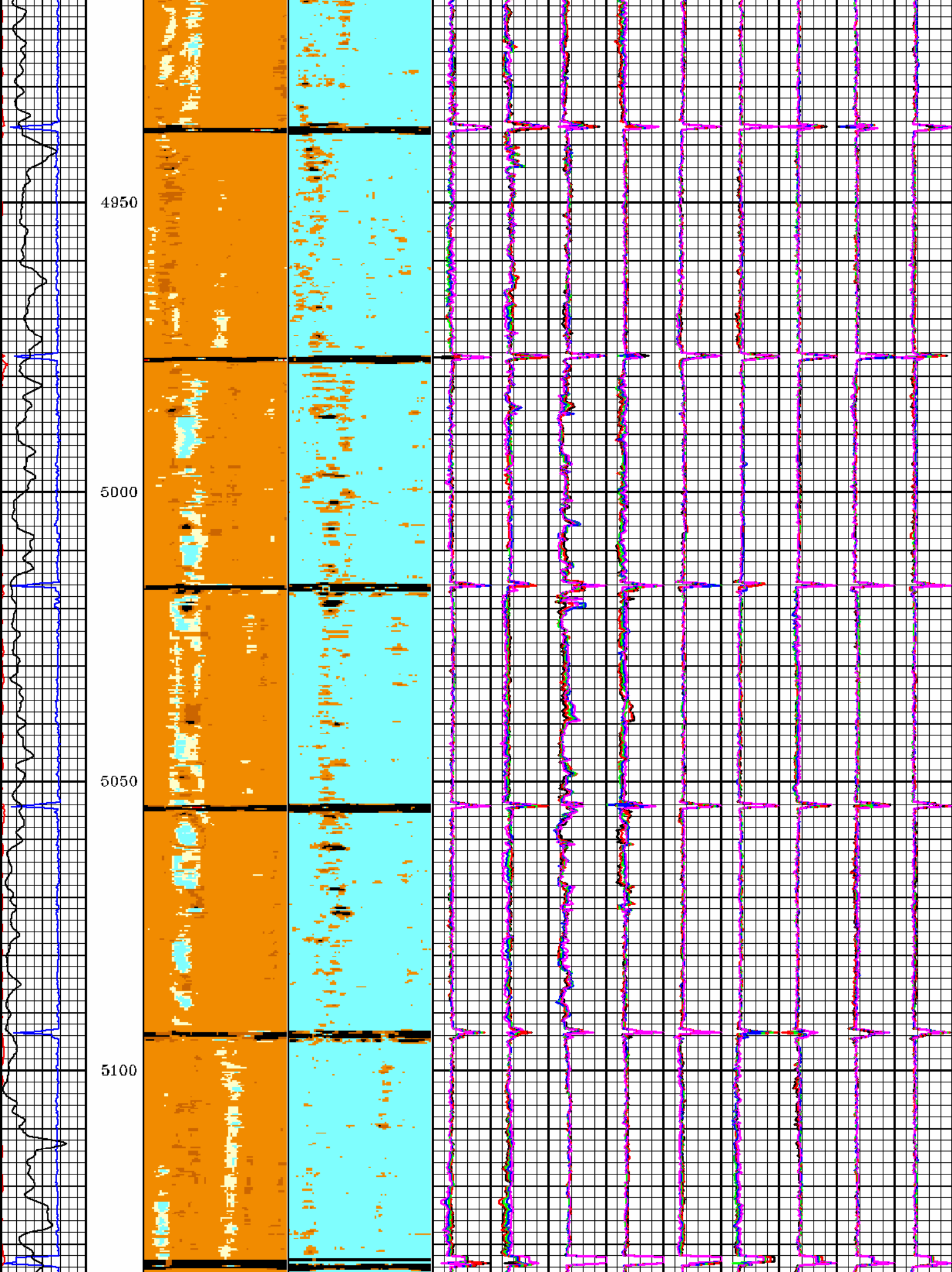




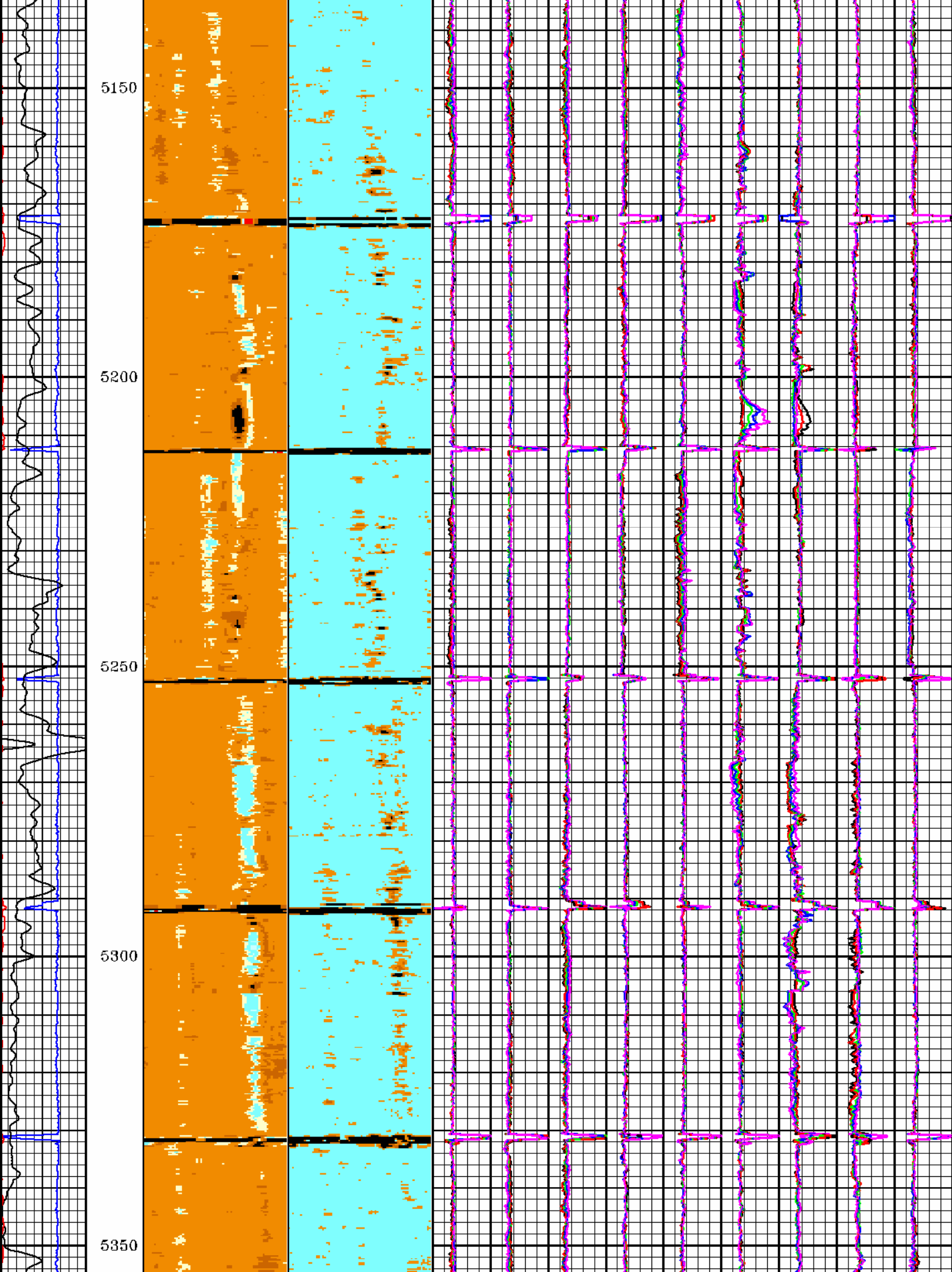


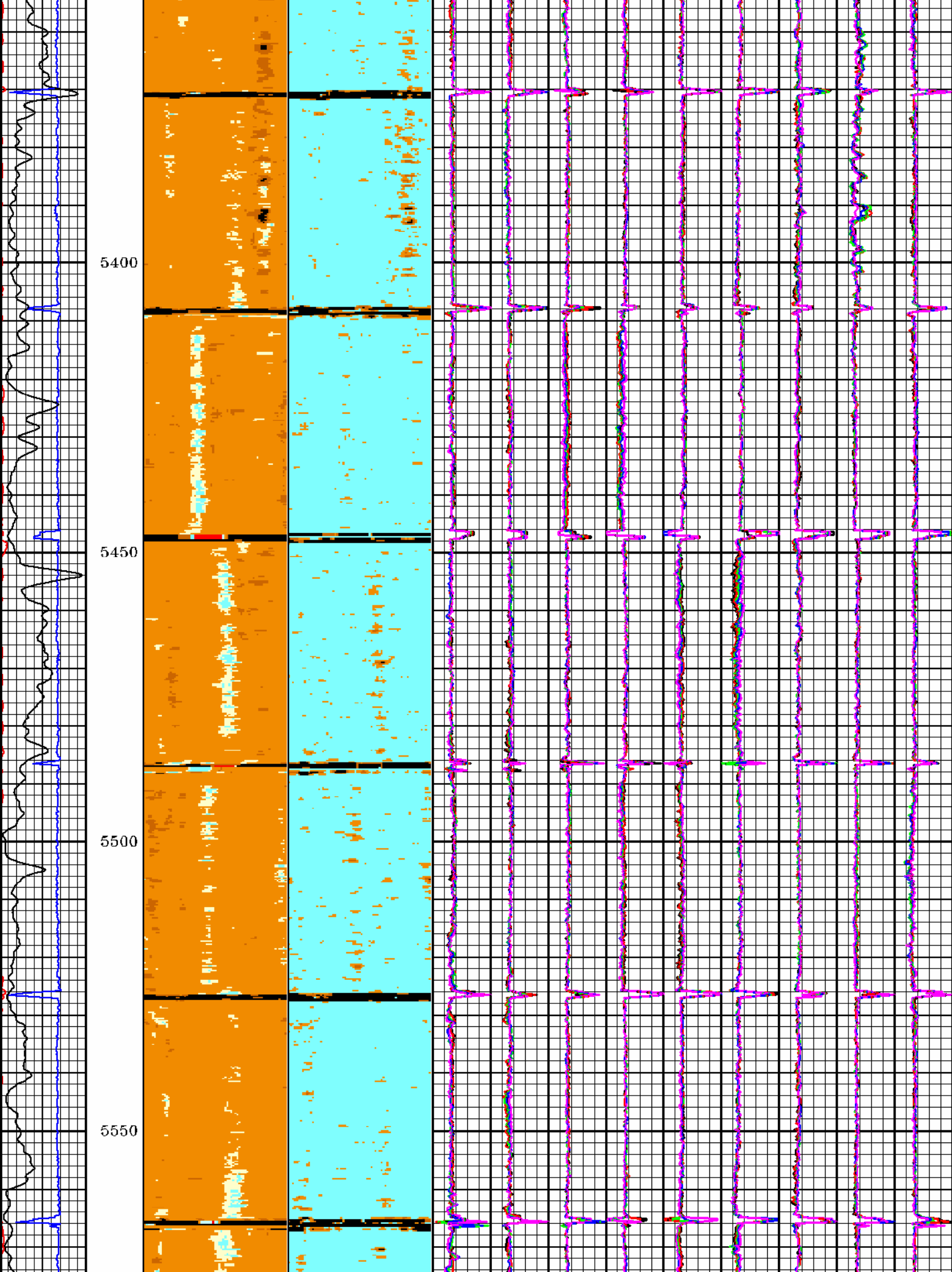


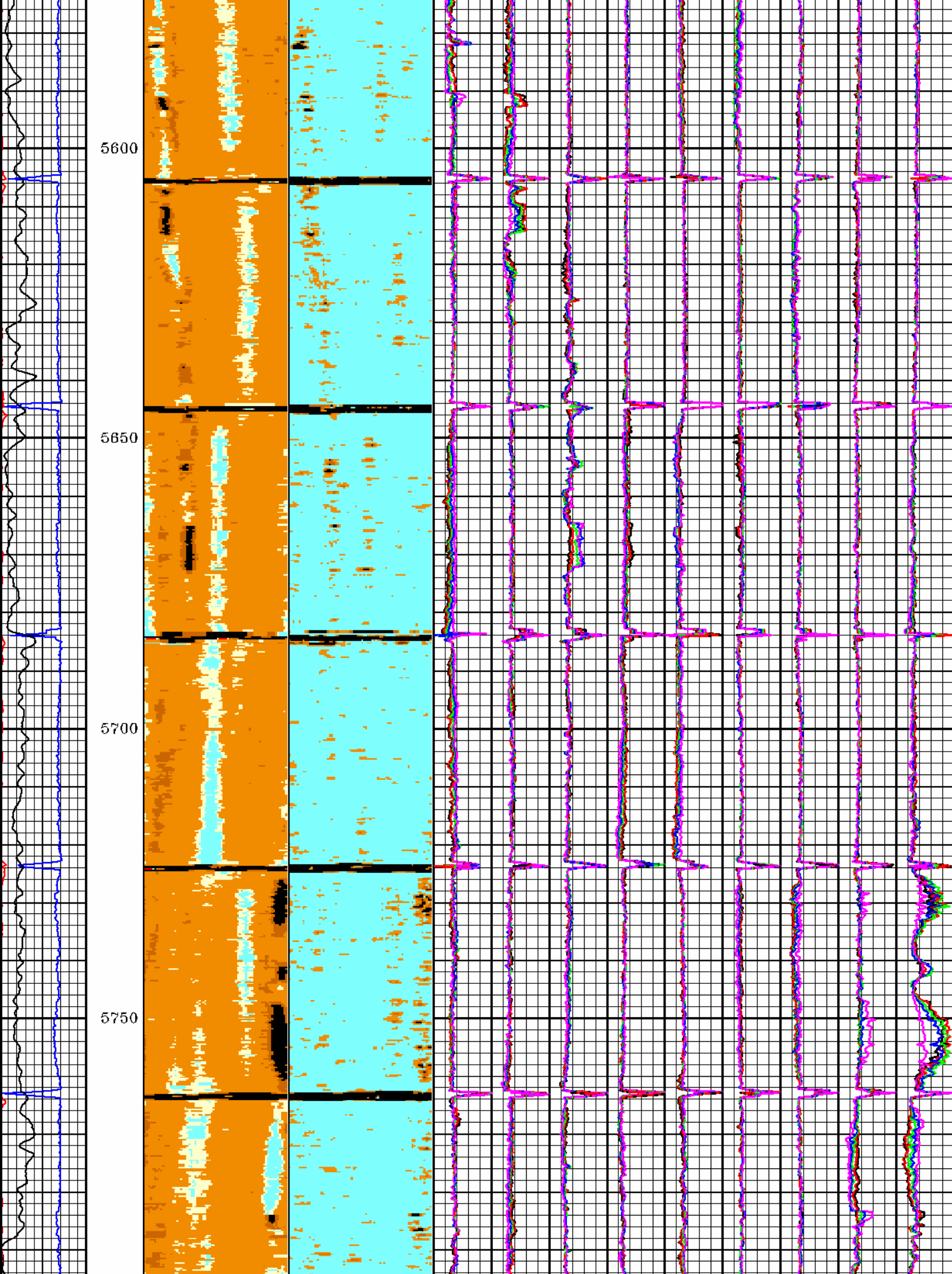


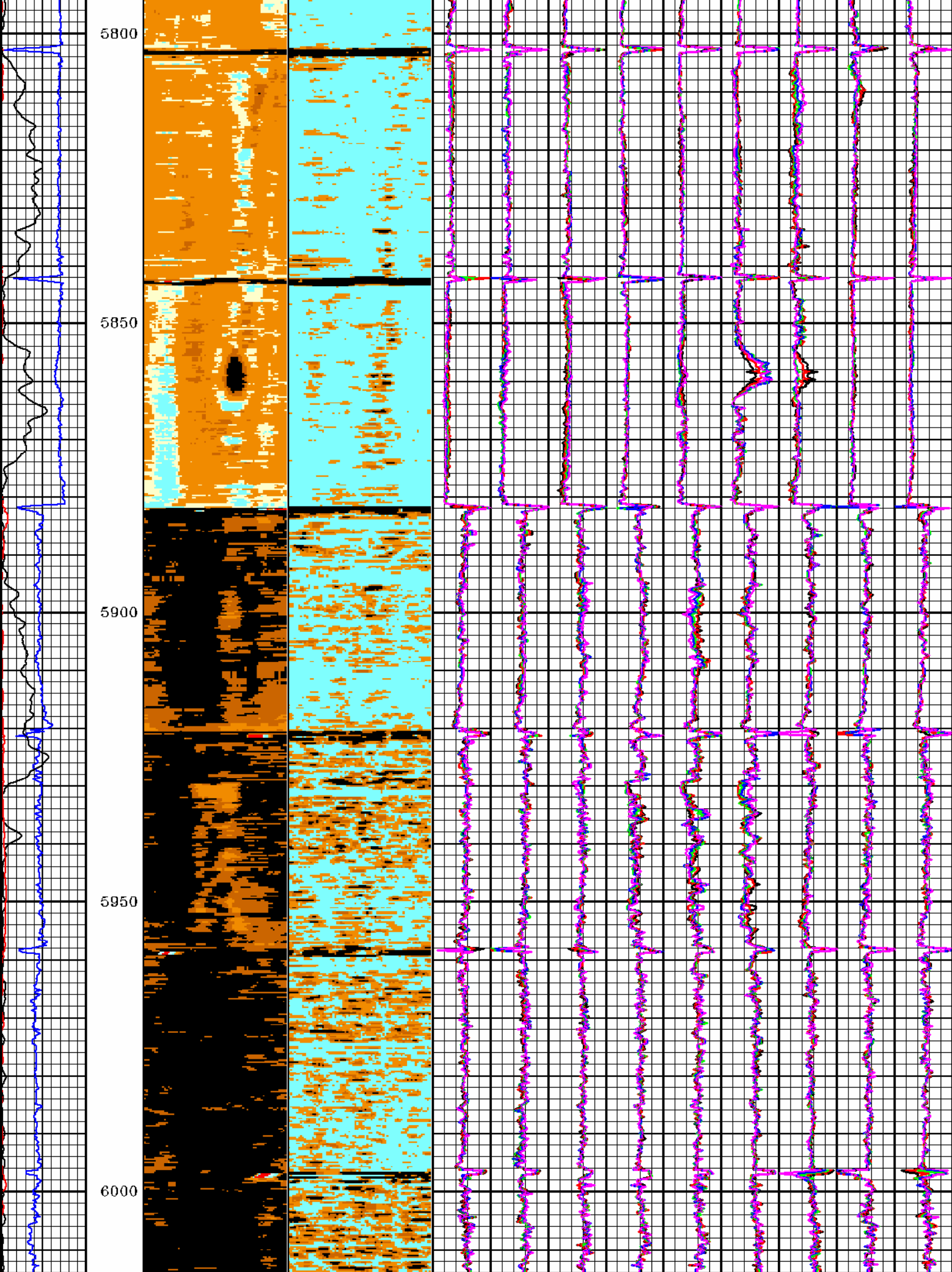




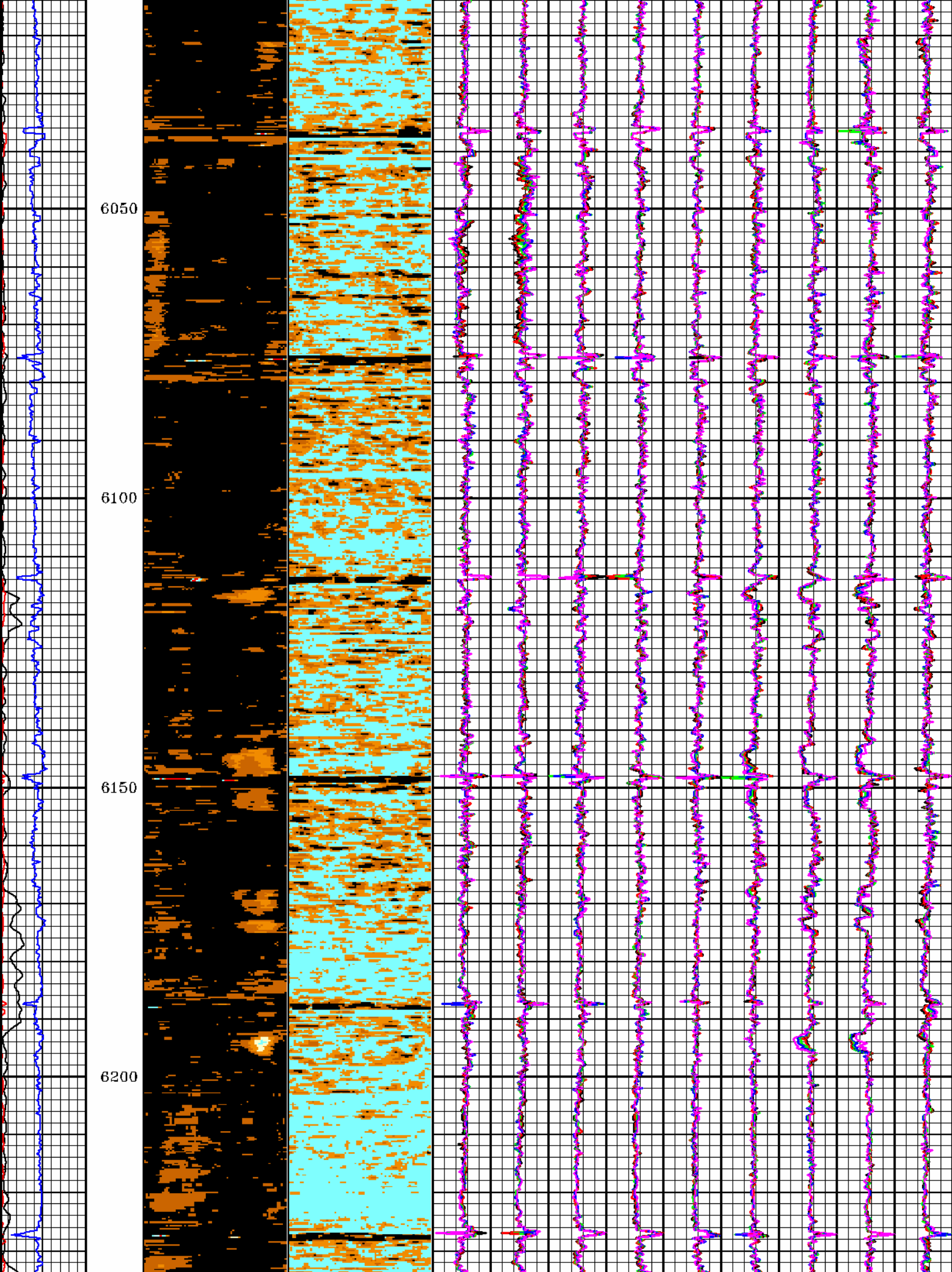


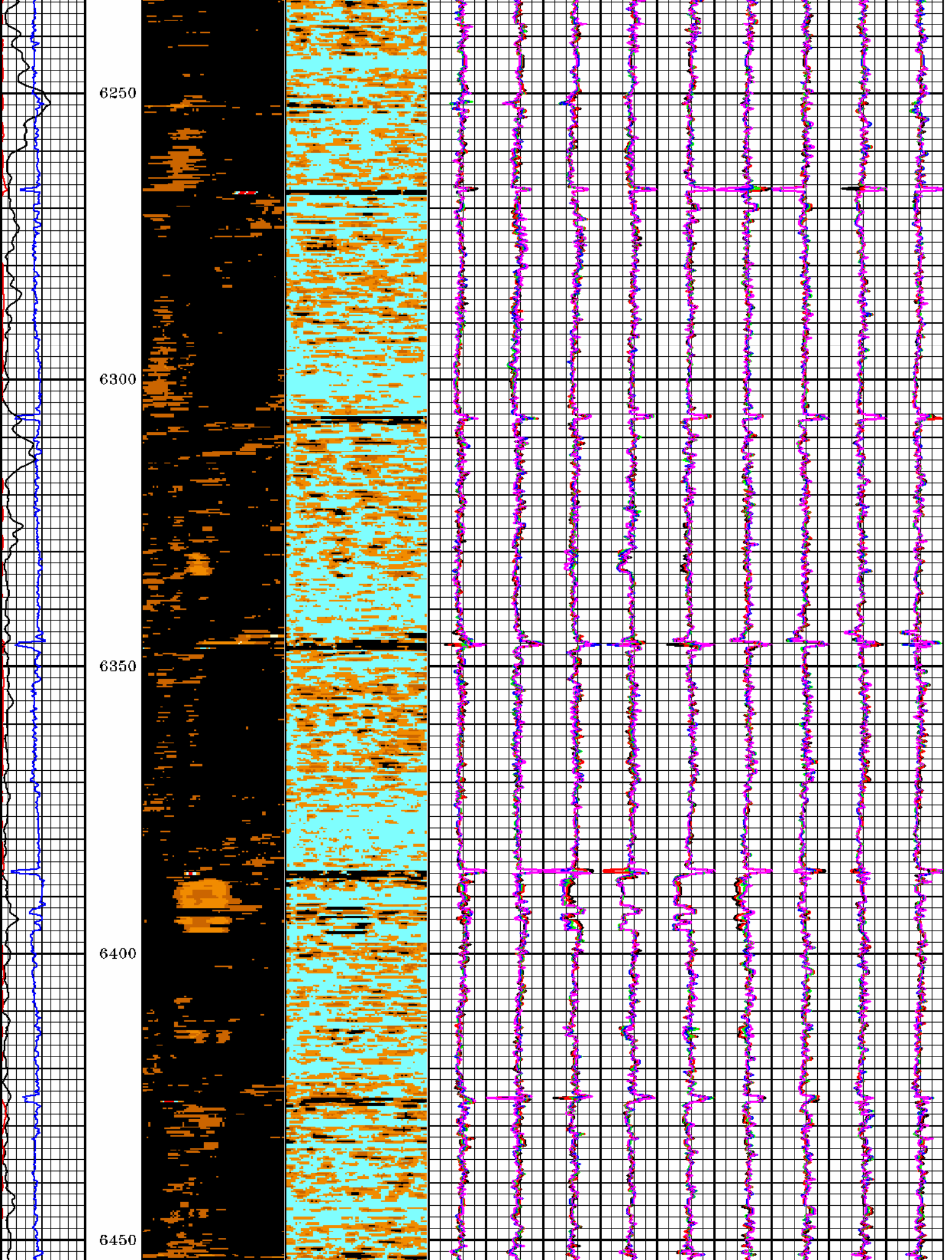


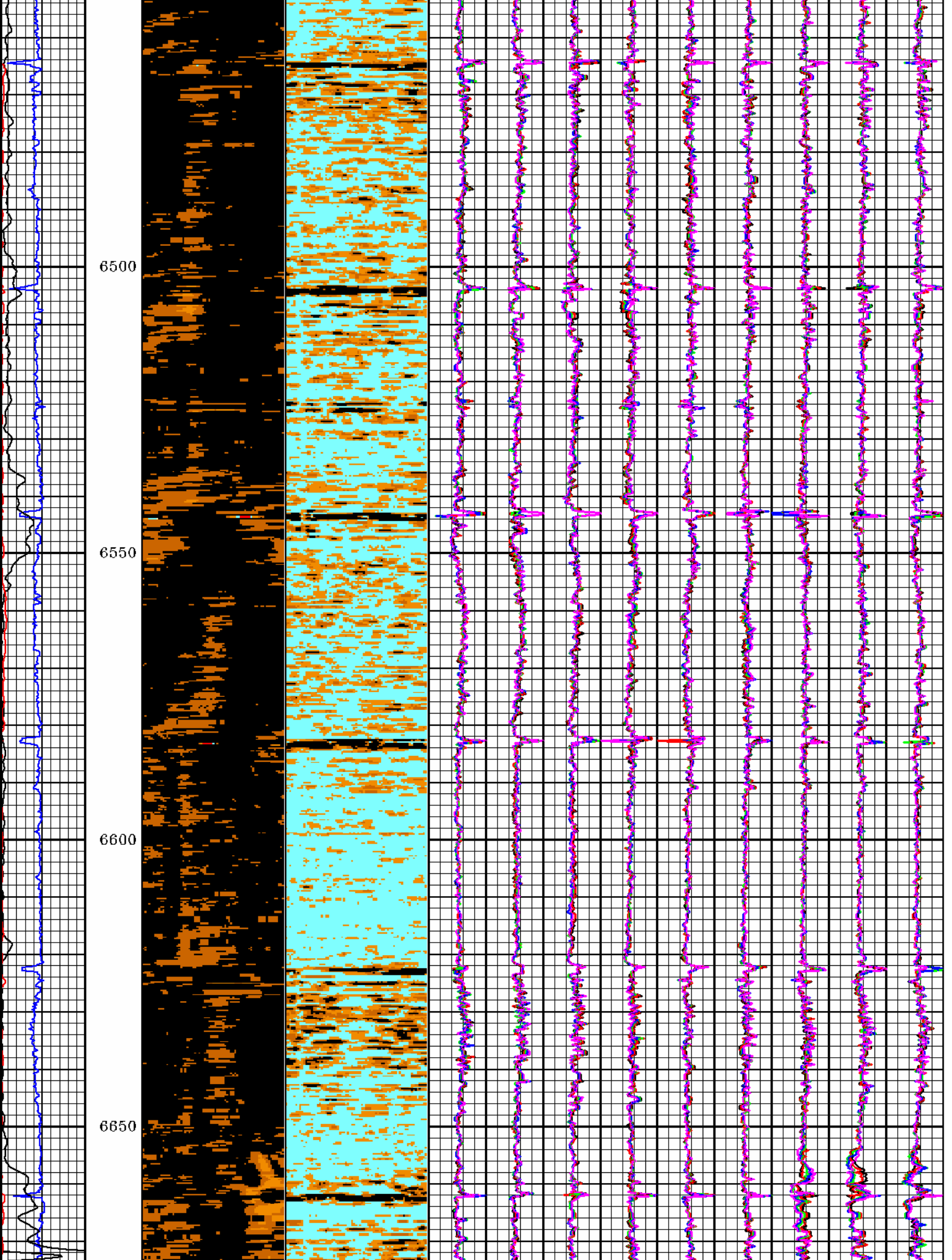




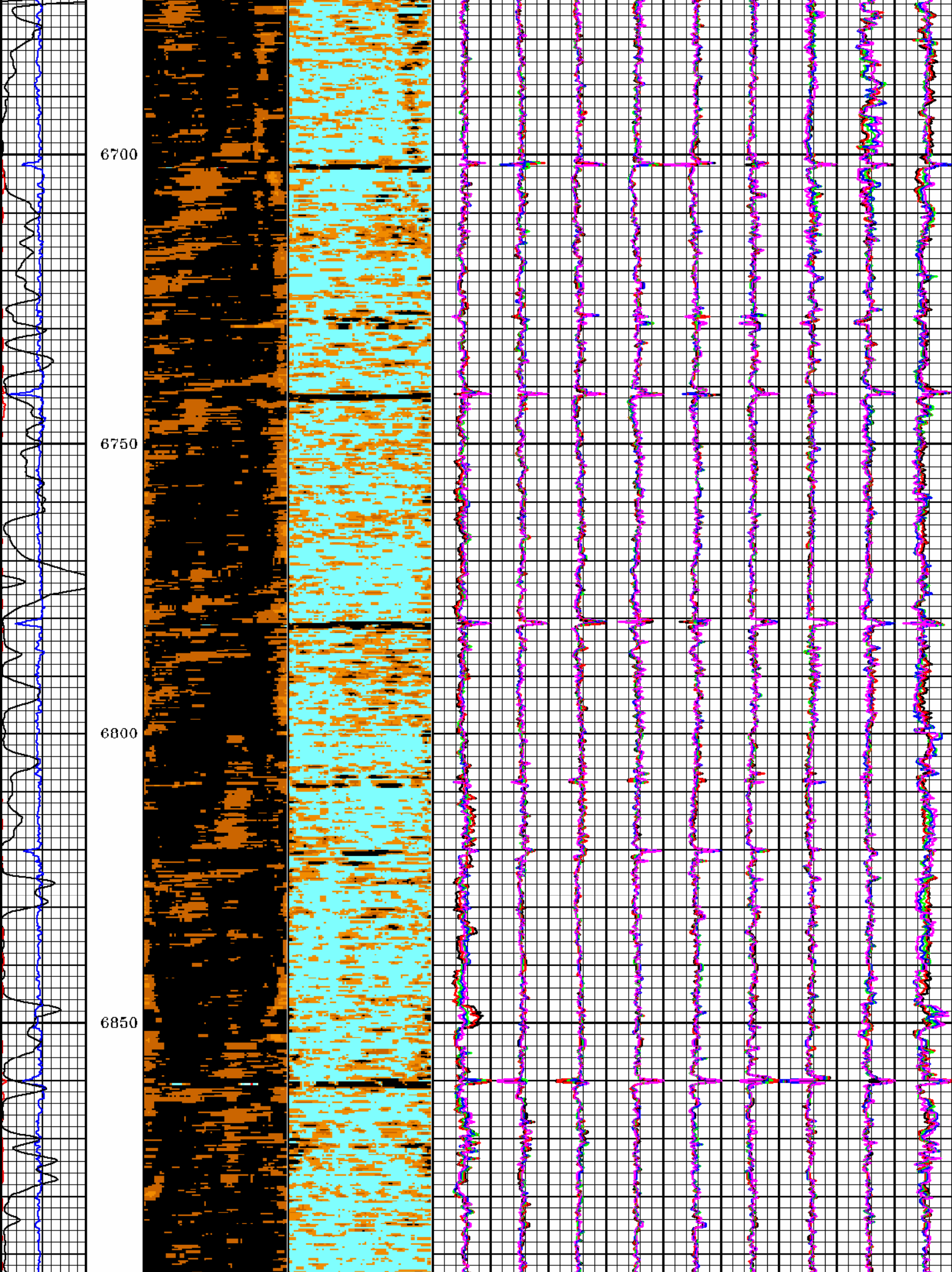




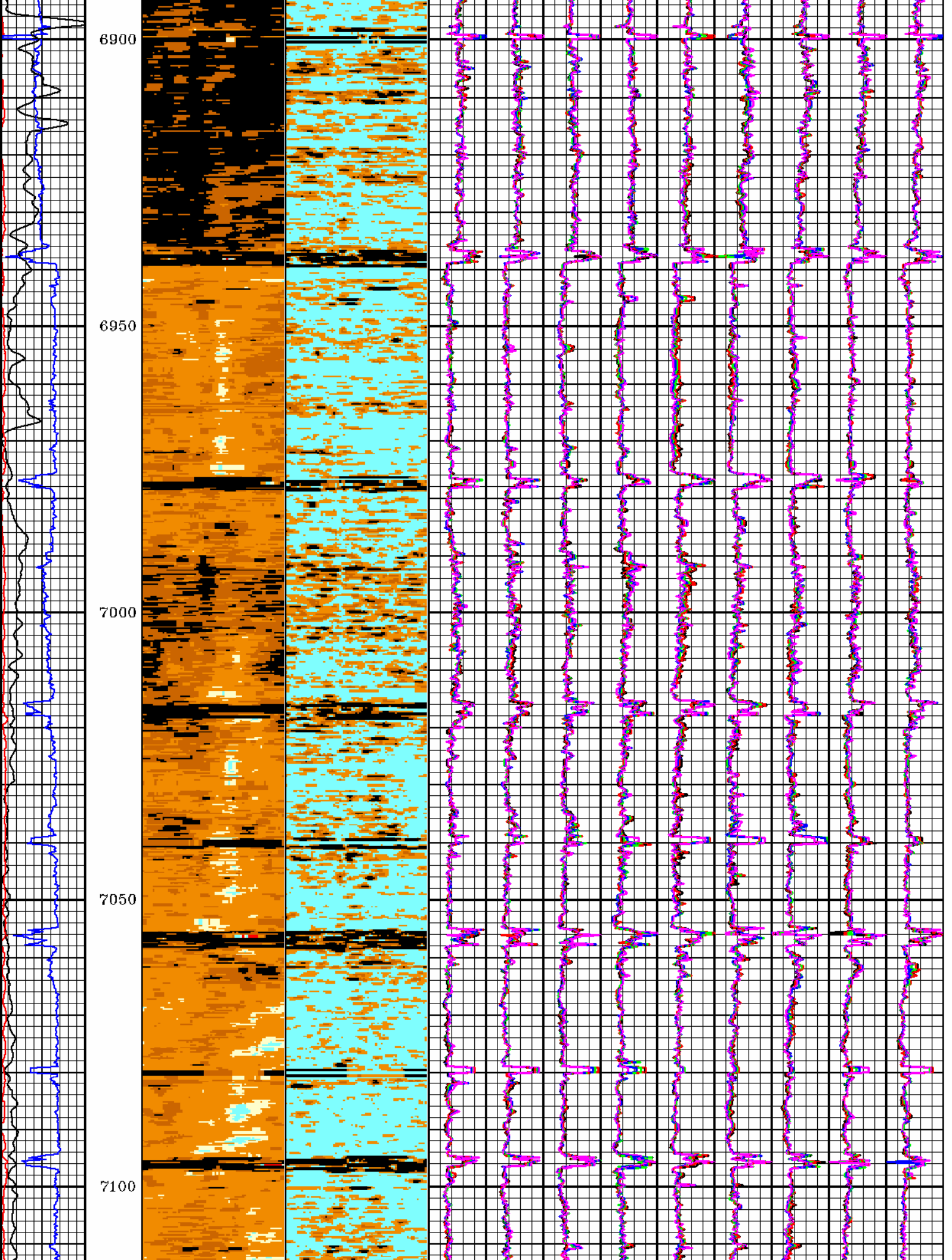


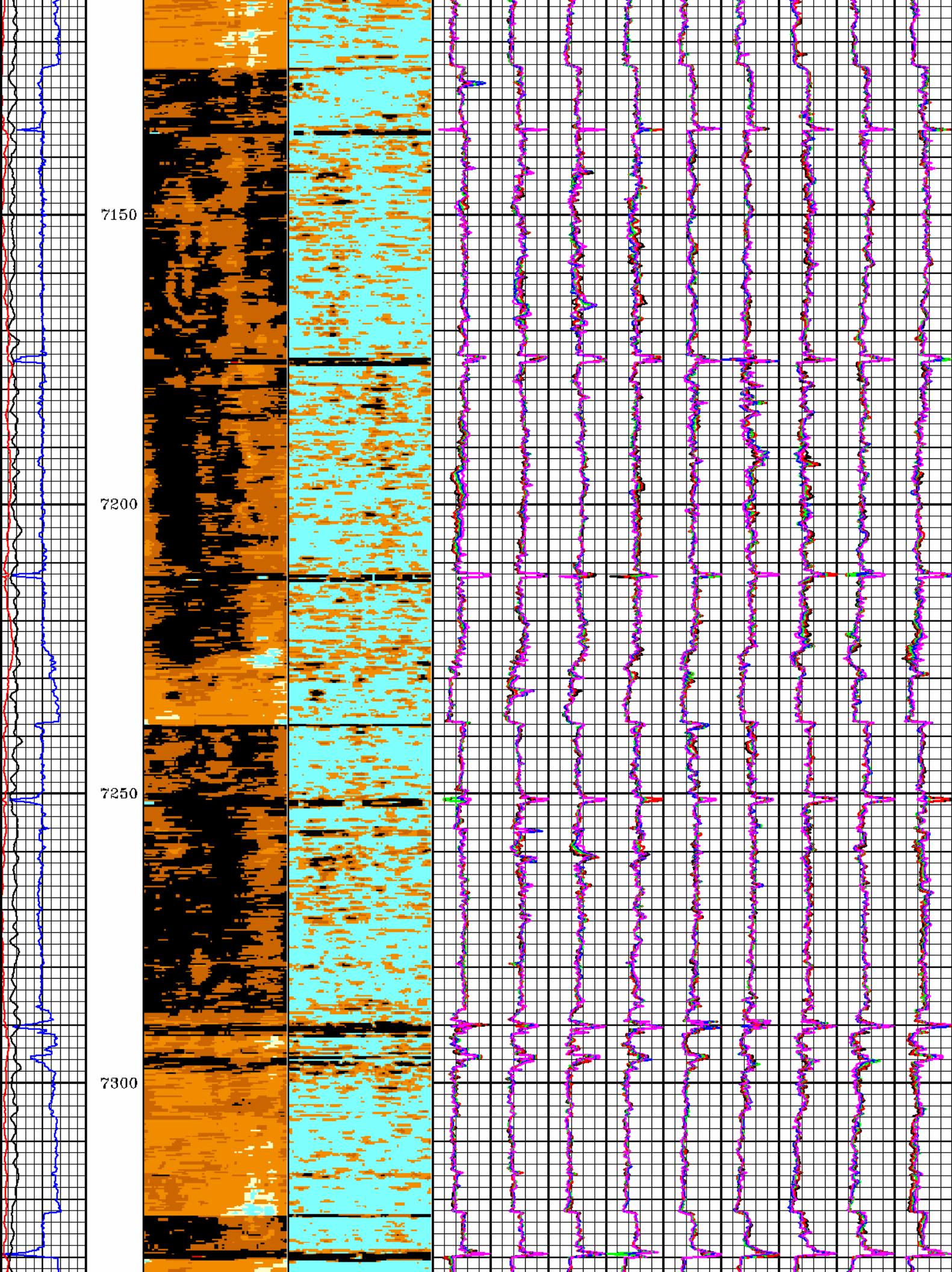


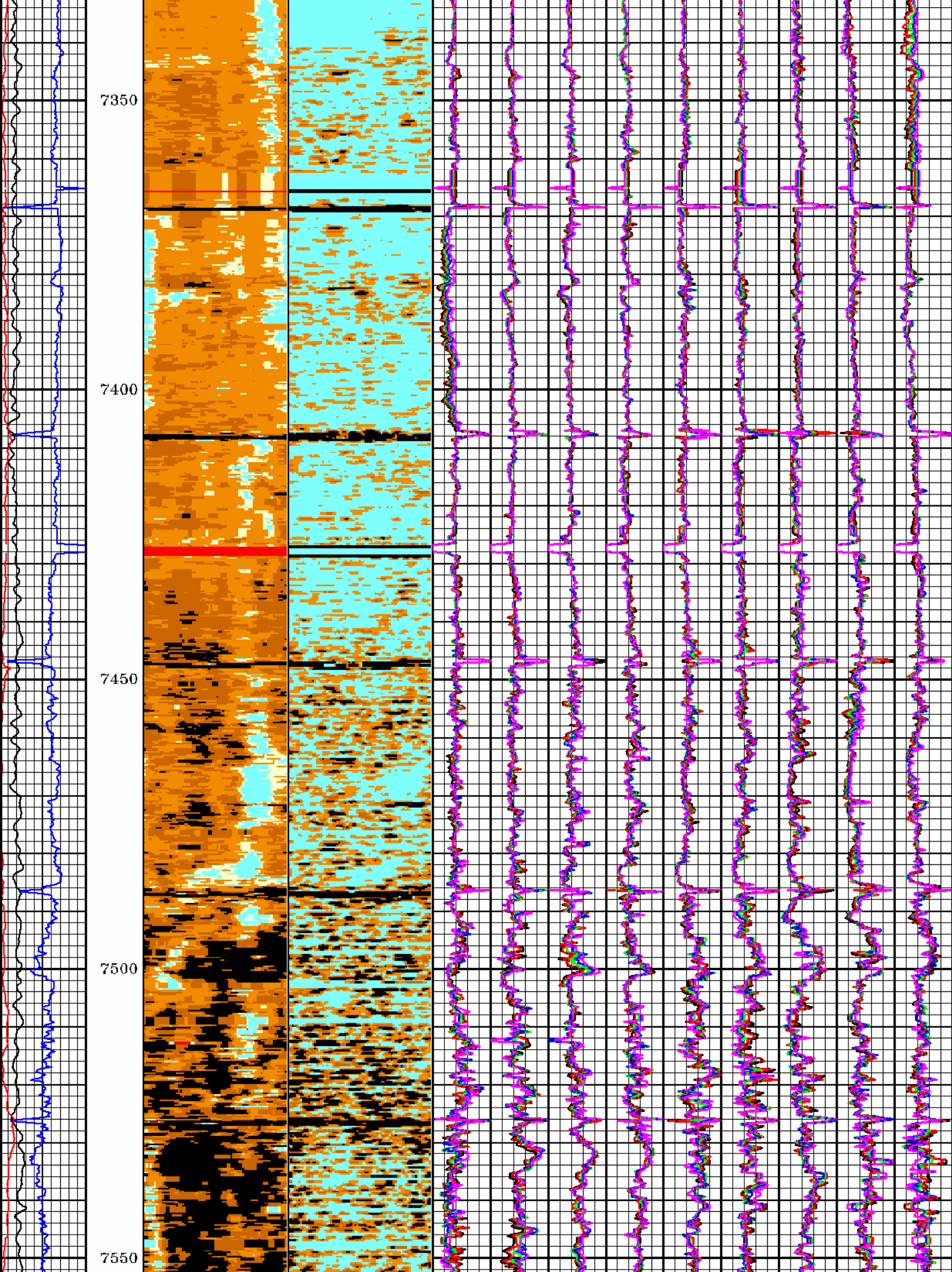


















DATA				A	B	C	D	E	F	G	H	I
<div><div>Version No:   hc:3.0</div><div>Data File: main.cls</div><div>Format File: ACE_SEG_CURVES.spc</div><div>Plot Time: 2013-11-24 23:51:40</div><div>Database Time: 23:11:59</div></div> <div><div>HALLIBURTON</div><div>Top Depth: 0.00</div><div>Bottom Depth: 7711.25</div></div>												

COMPANY	KINDER MORGAN CO2 Co. L.P.		
WELL	GOODMAN POINT #26		
FIELD	MCELMO DOME		
COUNTY	MONTEZUMA	STATE	CO
<div>HALLIBURTON</div>		CAST-M ADVANCED CEMENT EVALUATION	