



FILE NO:	COMPANY	LARAMIE ENERGY
API NO:	WELL	BRUTON 30-02E
05077103700000	FIELD	VEGA
	COUNTY	MESA
	STATE	COLORADO

Ver. 4.06	LOCATION:	OTHER SERVICES
	SHL: LAT:39.255232N, LONG:107.806537W	RPM
	BHL: LAT:39.254394N, LONG:107.806907W	
	SEC 30 TWP 9S RGE 93W	

PERMANENT DATUM	GL	ELEVATION	7425 FT
LOG MEASURED FROM	KB	24 FT	ABOVE P.D.
DRILL. MEAS. FROM	KB		
		ELEVATIONS:	
		KB	7449 FT
		DF	7448 FT
		GL	7425 FT

DATE	04-JUL-2017
RUN	1
TRIP	1
SERVICE ORDER	US109818
DEPTH DRILLER	7609 FT
DEPTH LOGGER	7522 FT
BOTTOM LOGGED INTERVAL	7522 FT
TOP LOGGED INTERVAL	24 FT
TIME STARTED	14:00
TIME FINISHED	17:00
OPERATOR RIG TIME	3 HRS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	9.3 LB/G
FLUID SALINITY	NA
FLUID LEVEL	62 FT
LOGGED CEMENT TOP	SEE LOGS
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	100 F/MN
MAX. RECORDED TEMP.	NA
REFERENCE LOG	NA
REFERENCE LOG DATE	NA
EQUIP. NO.	HL-6670
LOCATION	WOODWARD
RECORDED BY	M.MENTZER
WITNESSED BY	MR. CHUCK MALLARY

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE THE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

REMARKS
RUN 1 TRIP 1: *2 OPERATION IN WELL*
OPERATION 1: RAL/GR/CCL RUN CENTRALIZED
LOGGED WITH 0 PSI AT THE WELLHEAD
SJ: 6701'-6723'
SJ: 5723'-5745'
CREW: J.PENA, A.ADEBOWALE

EQUIPMENT DATA				
RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.
1	1	RAL	1426 XA	10216497
1	1	GR/CCL	1355 XA	1260180

MAIN PASS 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013

Updates: 1 Patches: 9

Plotted: Tue Jul 4 17:35:43 2017

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/LARAMIE_BRUTON_30_02E/n012g02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 18.750 ft BOTTOM DEPTH: 7522.592 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
AMPLITUDE	FILTER ()	medium (1)		"	"
TRAVEL TIME	FILTER ()	medium (1)		"	"

RAL CCL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CCL FLOOR	CCL FLOOR	0		TOP	BOTTOM

ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgp1*)	179	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	179	us	"	"
	AMP WINDOW START (fgp3*)	179	us	"	"
	AMP WINDOW START (fgp4*)	179	us	"	"
	AMP WINDOW START (fgp5*)	179	us	"	"
	AMP WINDOW START (fgp6*)	179	us	"	"
	AMP WINDOW START (fgp7*)	179	us	"	"
	AMP WINDOW START (fgp8*)	179	us	"	"
	AMP WINDOW START (fgpn*)	179	us	"	"
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	160	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (str1*)	-75	us	"	"
	TOOL DELAY (str2*)	-75	us	"	"
	TOOL DELAY (str3*)	-75	us	"	"
	TOOL DELAY (str4*)	-75	us	"	"
	TOOL DELAY (str5*)	-75	us	"	"
	TOOL DELAY (str6*)	-75	us	"	"
	TOOL DELAY (str7*)	-75	us	"	"
	TOOL DELAY (str8*)	-75	us	"	"
	TOOL DELAY (strn*)	-75	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

PERCENT BOND CEMENT MAP

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"
	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"
	FREE AMP REC 5	80	mV	"	"
	FREE AMP REC 6	80	mV	"	"
	FREE AMP REC 7	80	mV	"	"
	FREE AMP REC 8	80	mV	"	"
RAL FULL BOND AMPLITUDE	FULL BOND AMP REC 1	2	mV	"	"
	FULL BOND AMP REC 2	2	mV	"	"

FULL BOND AMP REC 3	2	mV	"	"
FULL BOND AMP REC 4	2	mV	"	"
FULL BOND AMP REC 5	2	mV	"	"
FULL BOND AMP REC 6	2	mV	"	"
FULL BOND AMP REC 7	2	mV	"	"
FULL BOND AMP REC 8	2	mV	"	"

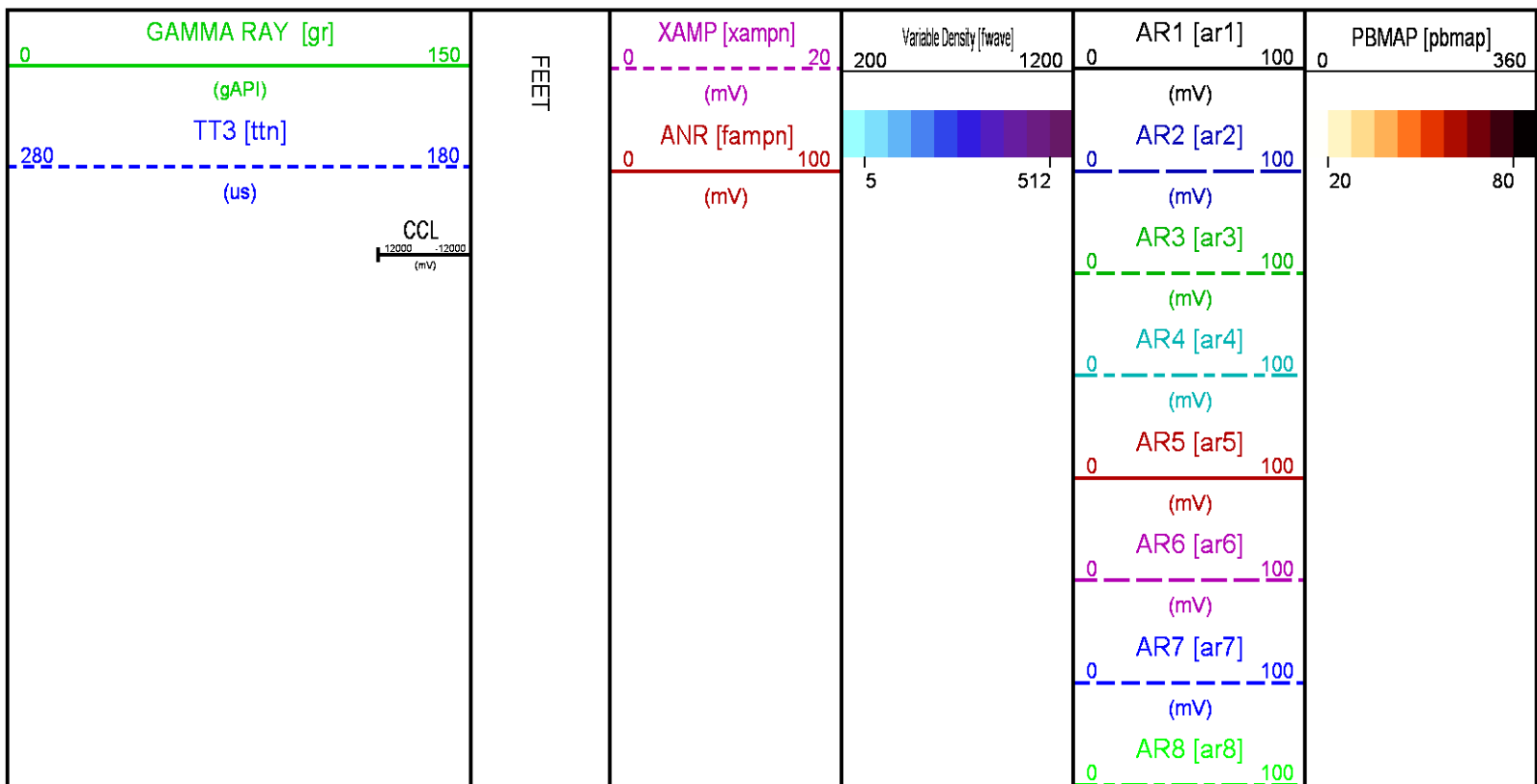
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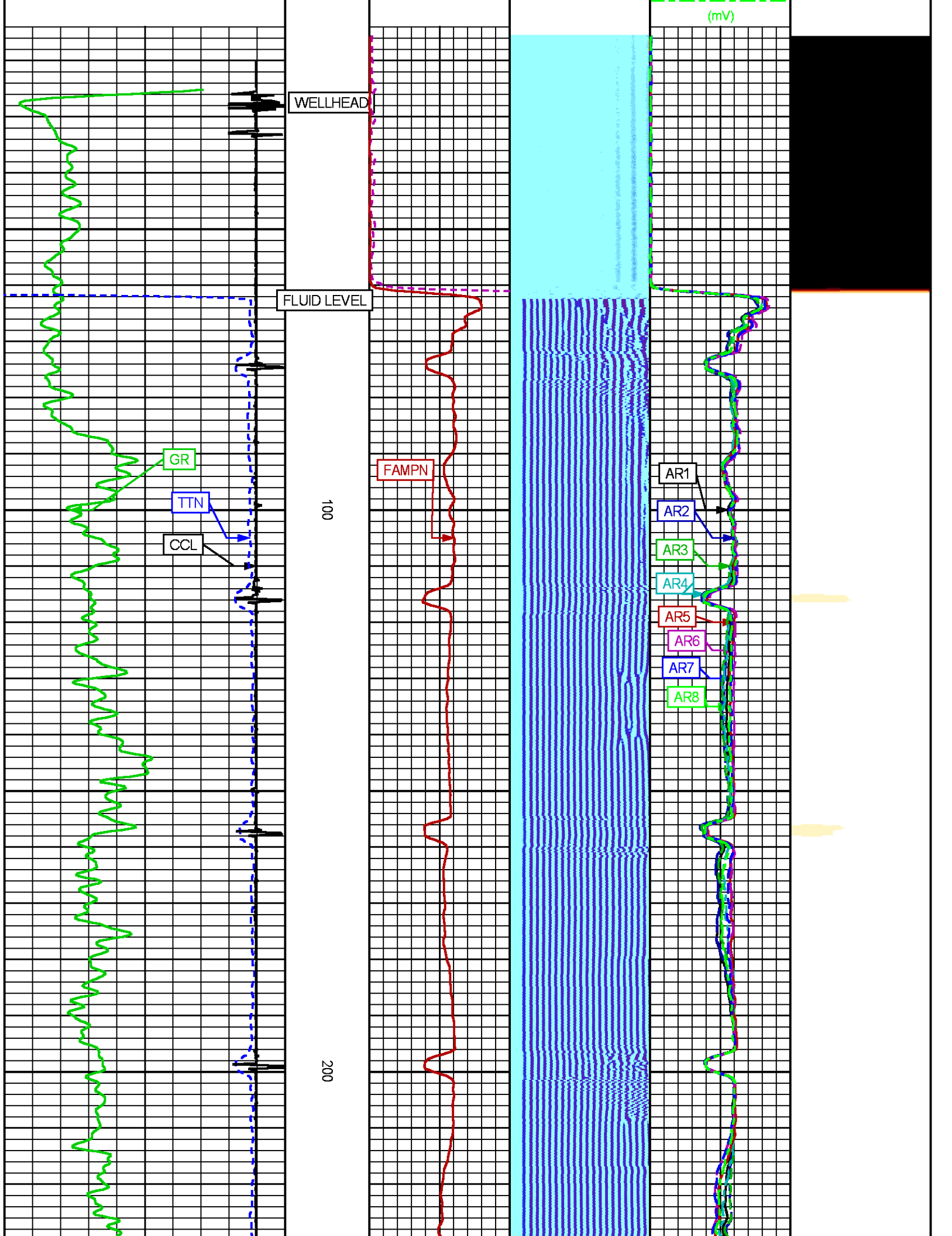
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Jul 4 15:51:40 2017	FIXED GATE AMPLITUDE T-R1
F1:AR2	Jul 4 15:51:40 2017	FIXED GATE AMPLITUDE T-R2
F1:AR3	Jul 4 15:51:40 2017	FIXED GATE AMPLITUDE T-R3
F1:AR4	Jul 4 15:51:40 2017	FIXED GATE AMPLITUDE T-R4
F1:AR5	Jul 4 15:51:40 2017	FIXED GATE AMPLITUDE T-R5
F1:AR6	Jul 4 15:51:40 2017	FIXED GATE AMPLITUDE T-R6
F1:AR7	Jul 4 15:51:40 2017	FIXED GATE AMPLITUDE T-R7
F1:AR8	Jul 4 15:51:40 2017	FIXED GATE AMPLITUDE T-R8
F1:CCL	Jul 4 15:51:40 2017	CASING COLLAR LOCATOR
F1:FAMPN	Jul 4 15:51:40 2017	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jul 4 15:51:40 2017	FAR WAVE FORM
F1:GR	Jul 4 15:51:40 2017	GAMMA RAY
F1:PBMAP	Jul 4 15:51:40 2017	PERCENT BOND CEMENT MAP
F1:TTN	Jul 4 15:51:40 2017	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jul 4 15:51:40 2017	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

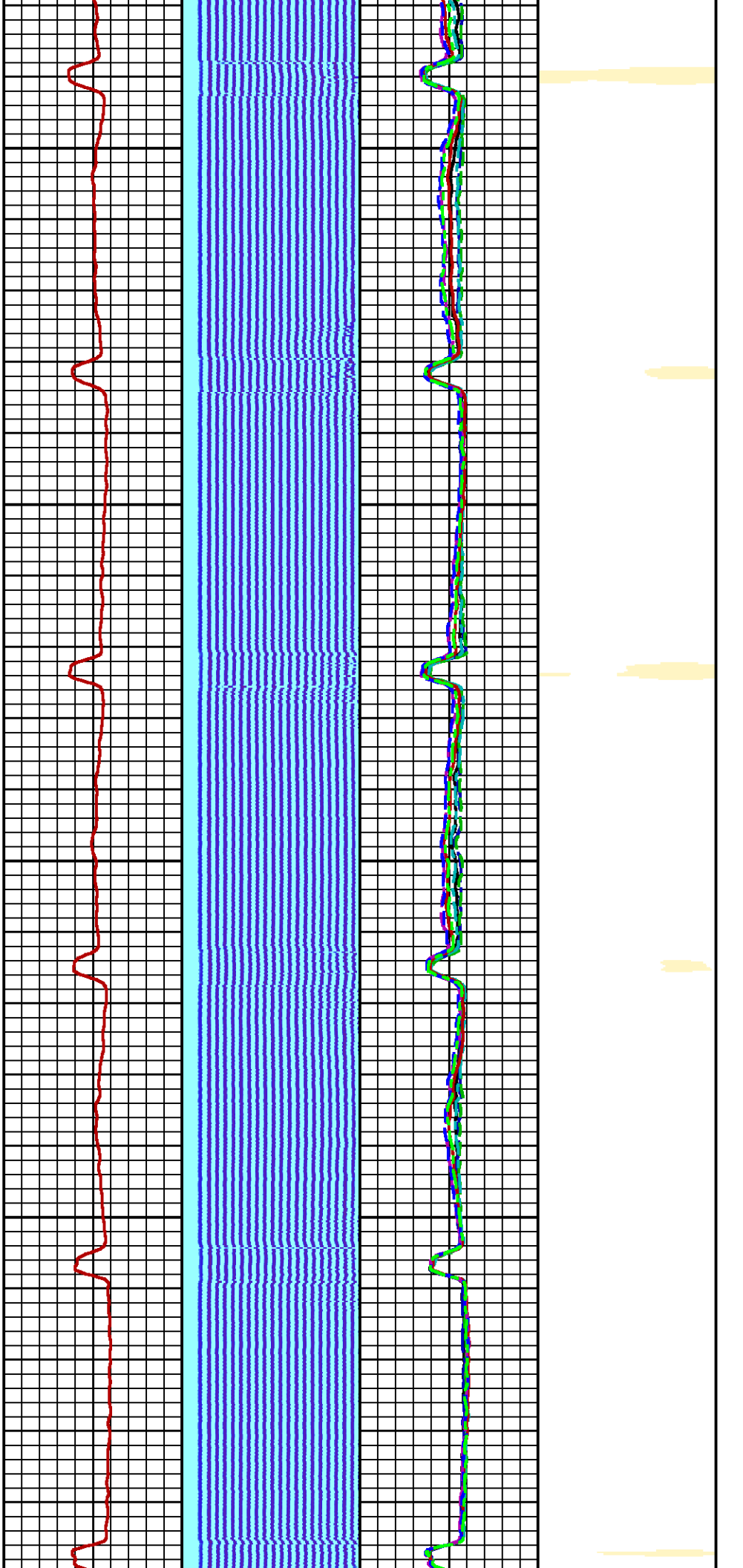
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	11.25	AR5	11.25	CCL	5.75	XAMPN	11.25
AR2	11.25	AR6	11.25	FAMPN	11.25		
AR3	11.25	AR7	11.25	GR	1.75		
AR4	11.25	AR8	11.25	TTN	11.25		

Presentation	: cpu100:ral_all+01-MAIN-30_02E_RAL_MN-5.fvpdf [5"/100' Scale]
Plot Interval	: 15.5 - 7525.5 Feet
Data File 1	: F1 : cpu100:/dat1a/LARAMIE_BRUTON_30_02E/30_02E_RAL_MN.xtf
Created On	: Jul 4 15:51:40 2017
Company	: LARAMIE ENERGY
Well	: BRUTON 30-02E
Field	: VEGA
File Interval	: 14.5 - 7526.75 Feet
OCT	: n012g

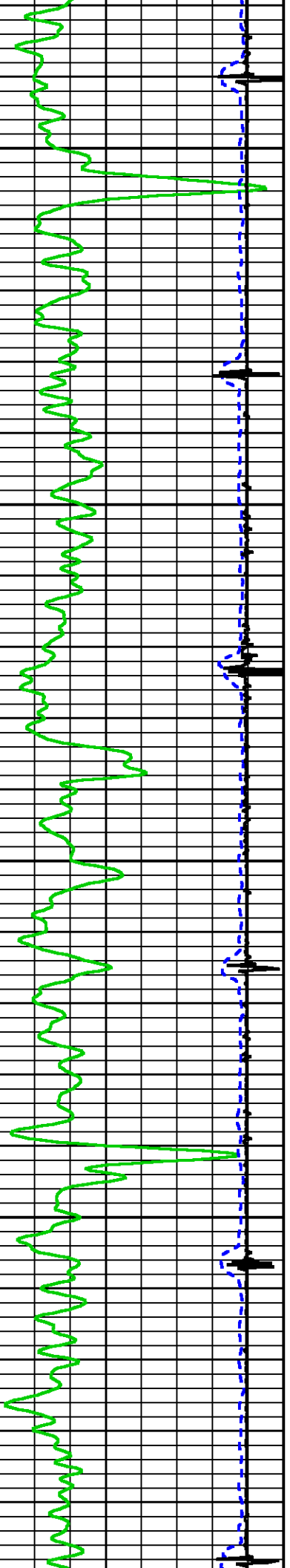


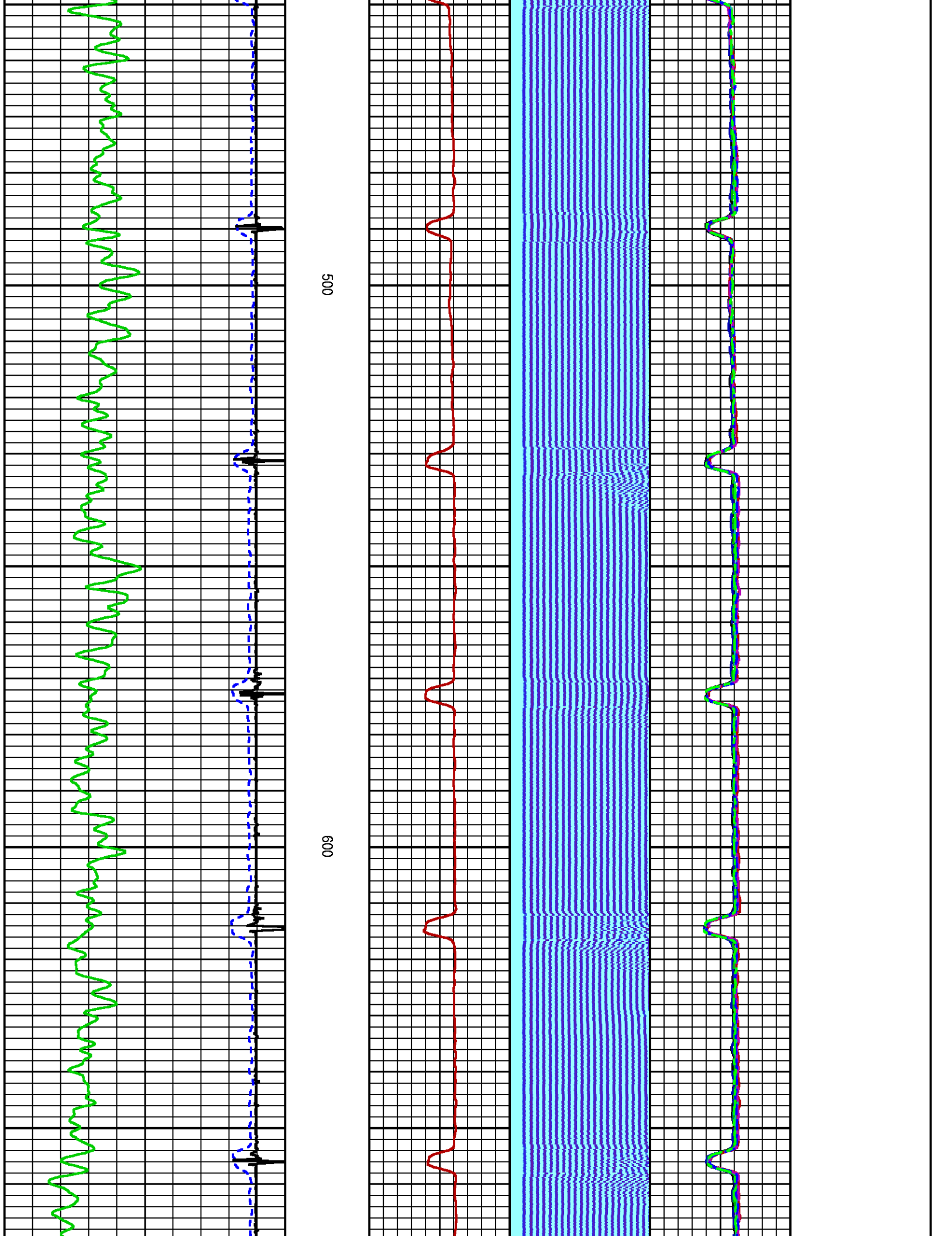


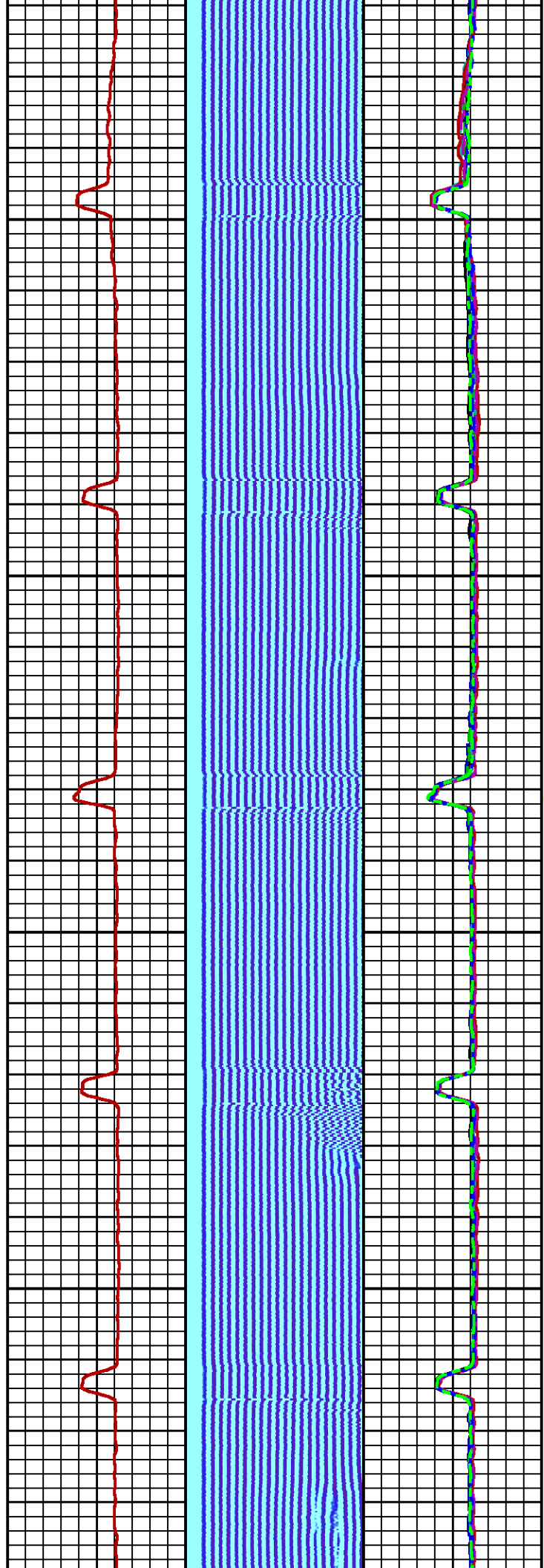


300

400

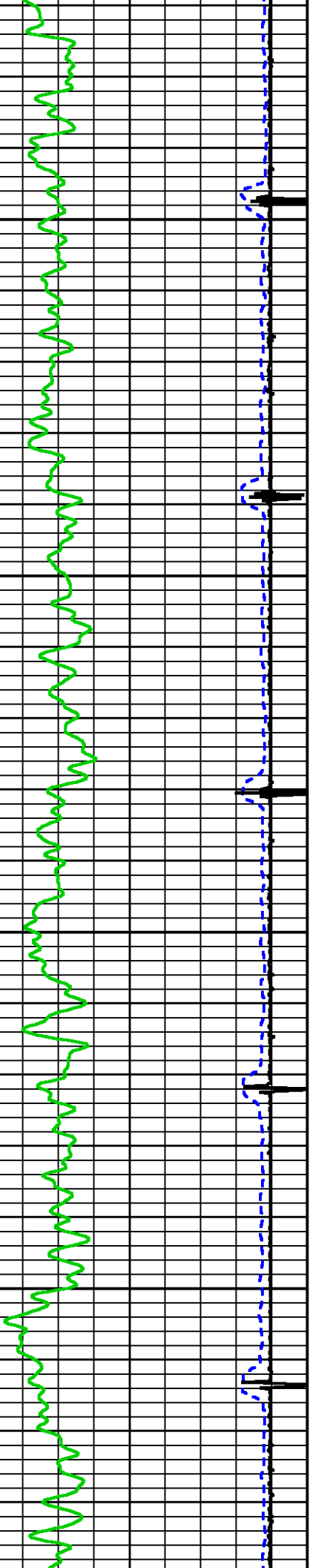


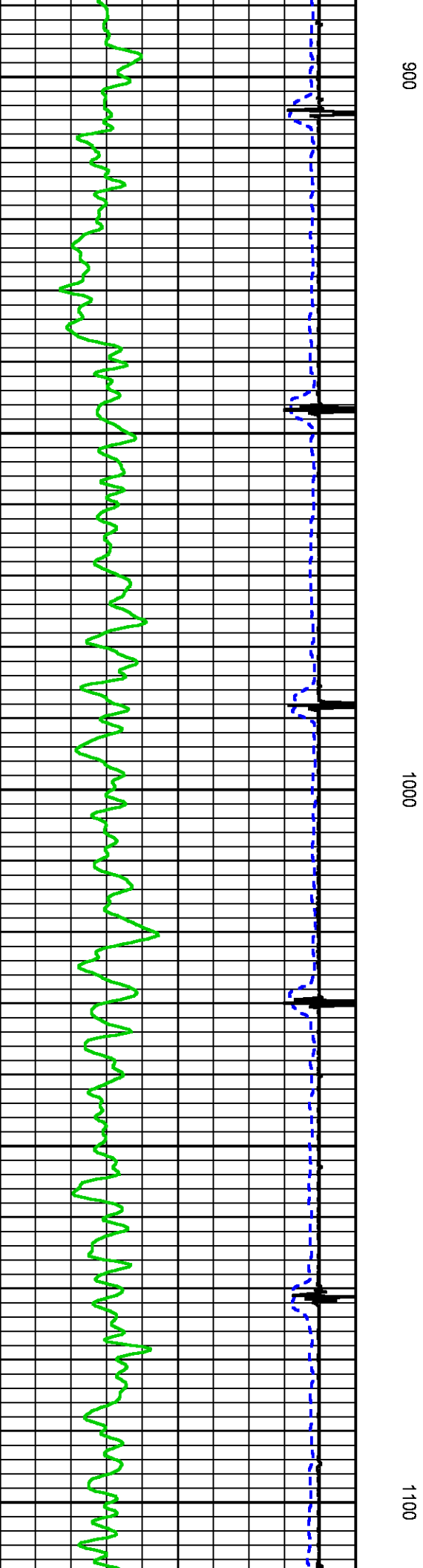
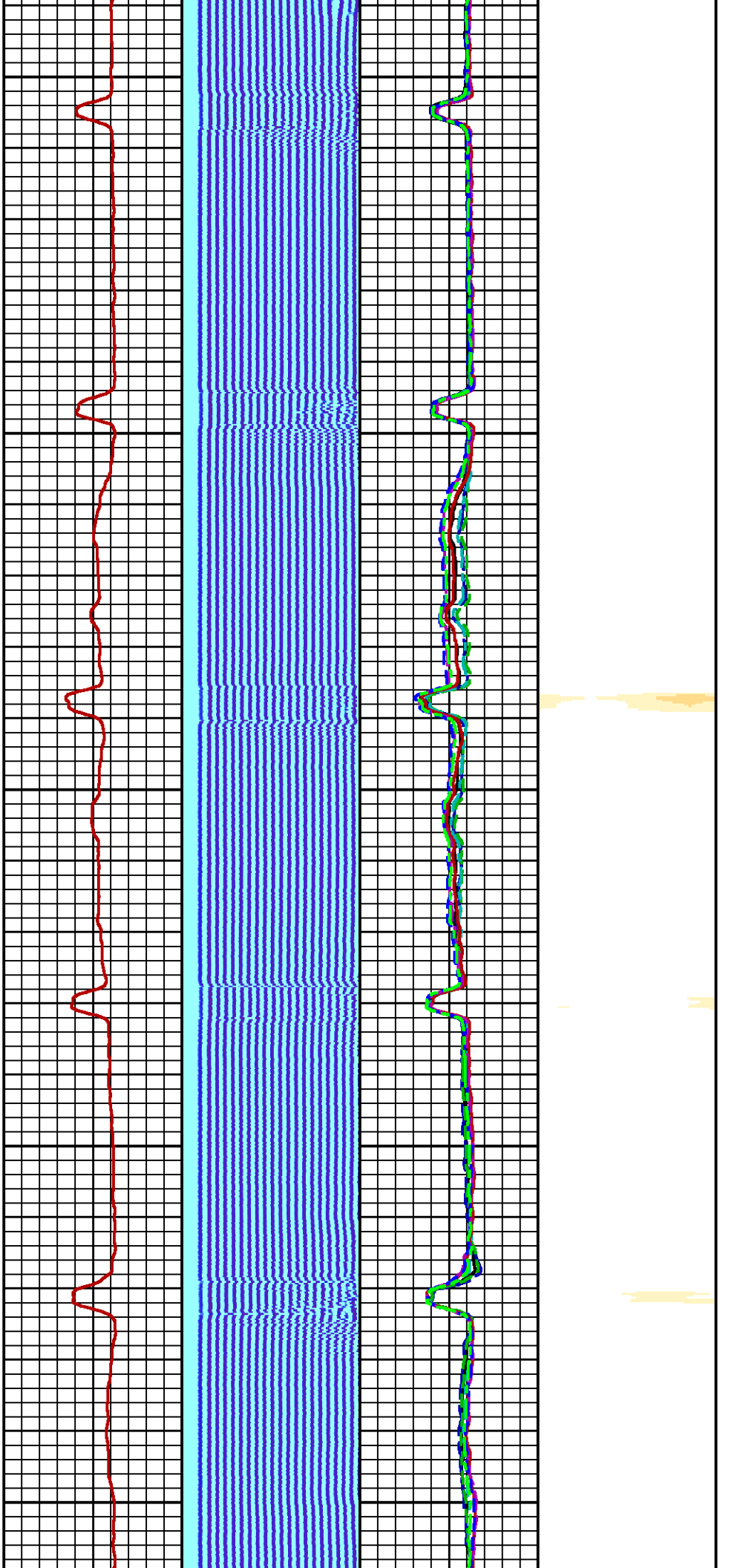


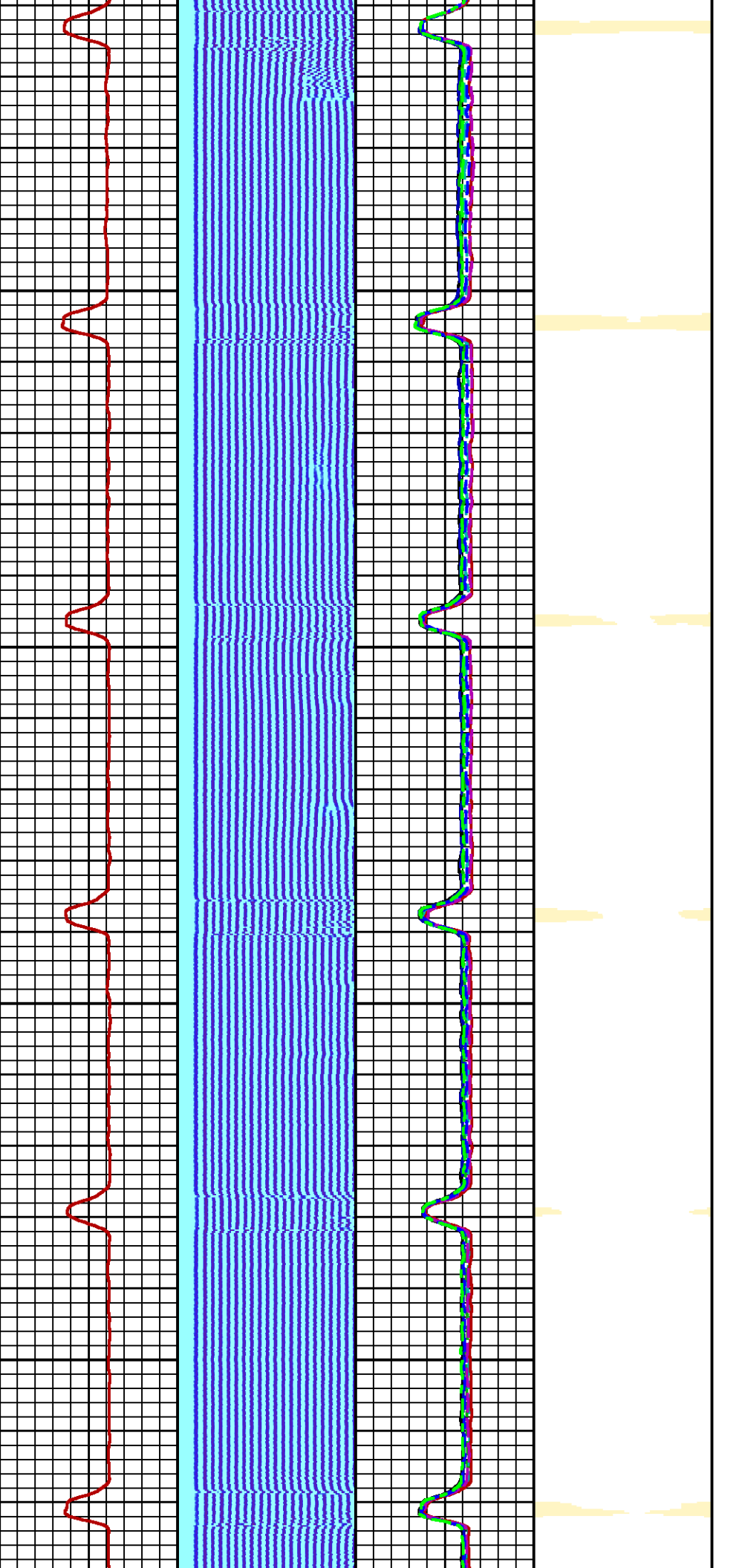


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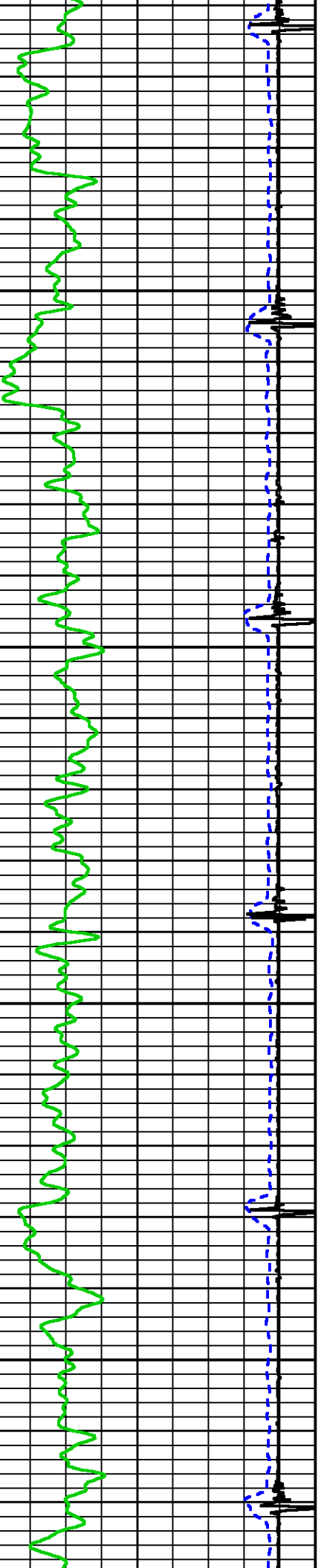


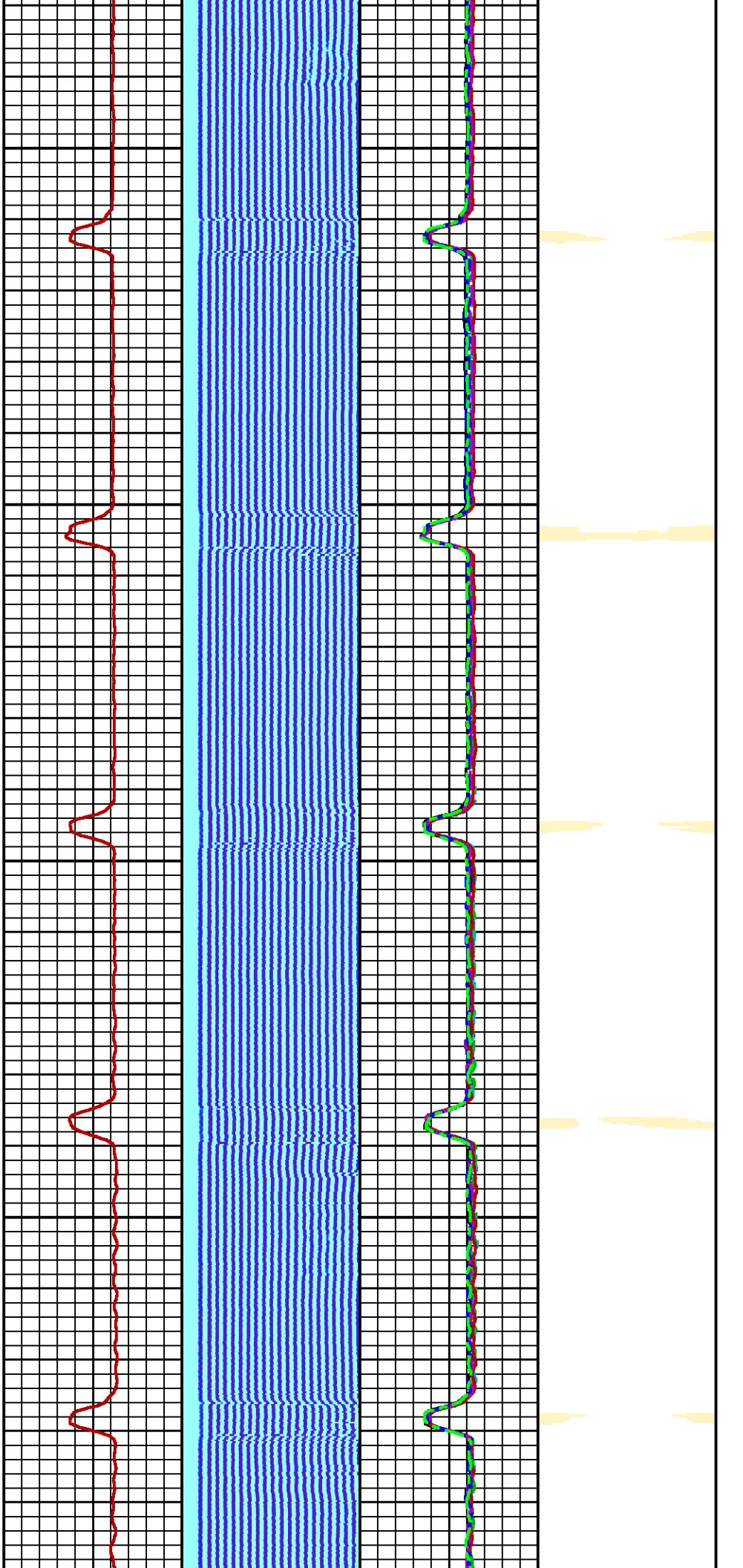




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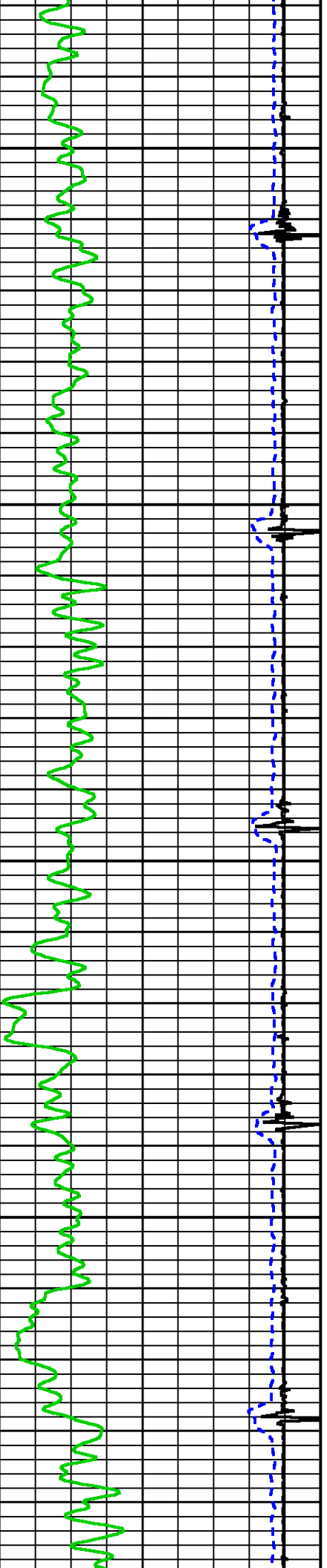
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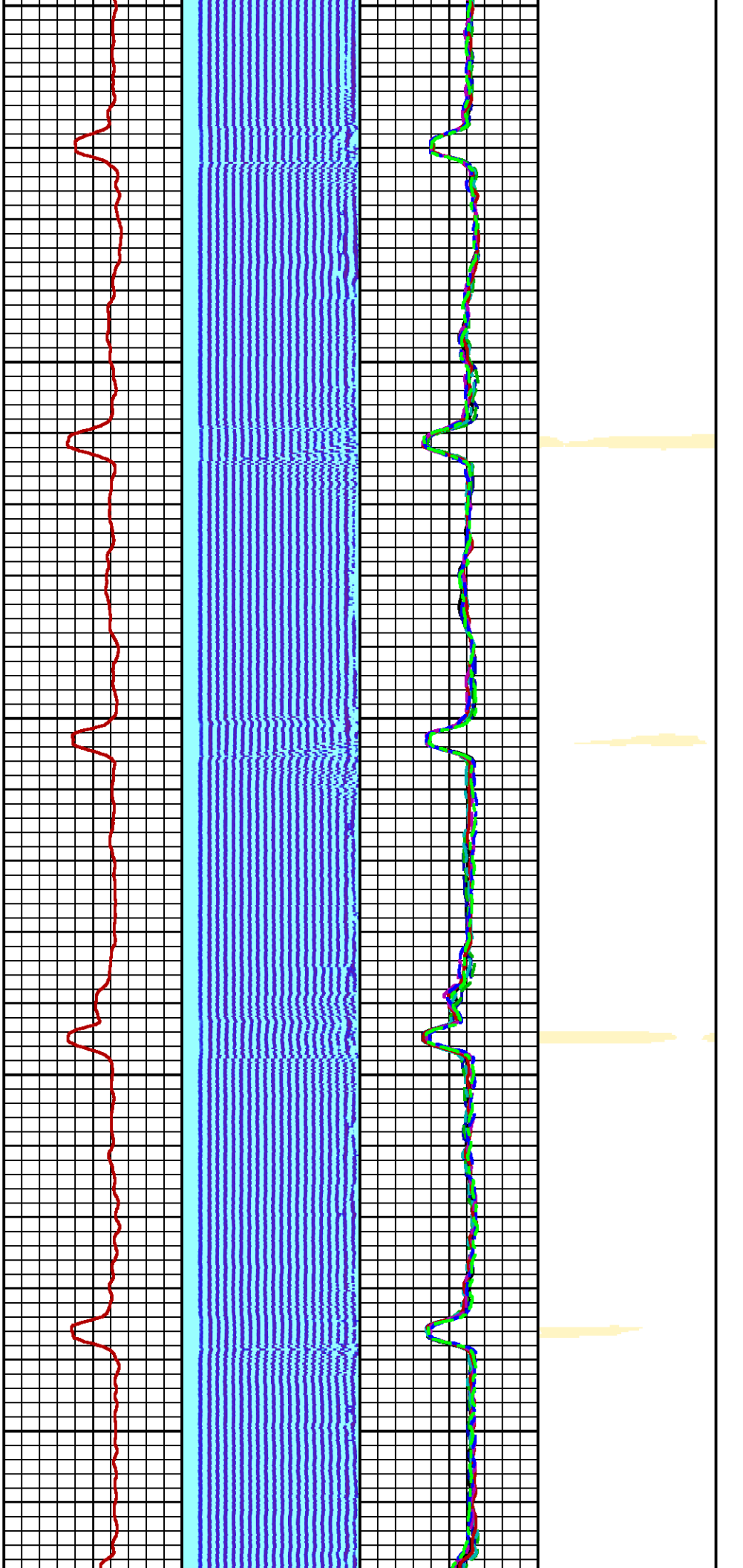




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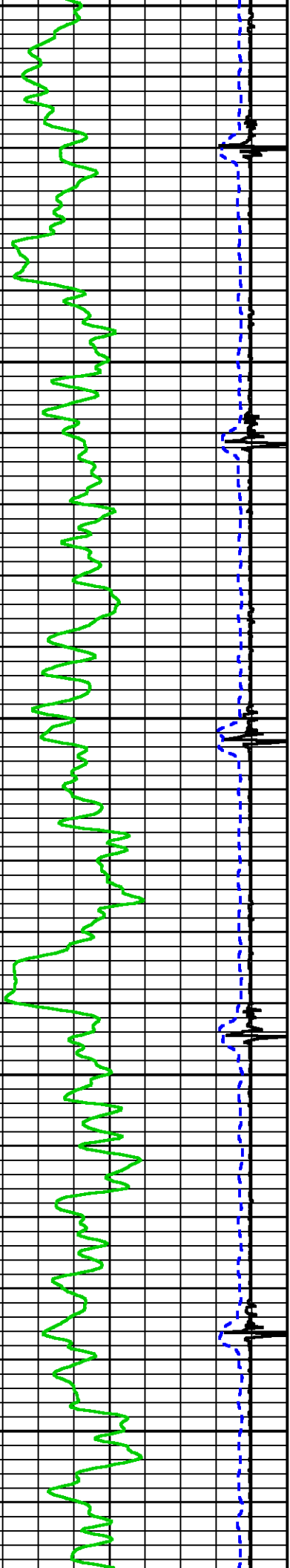
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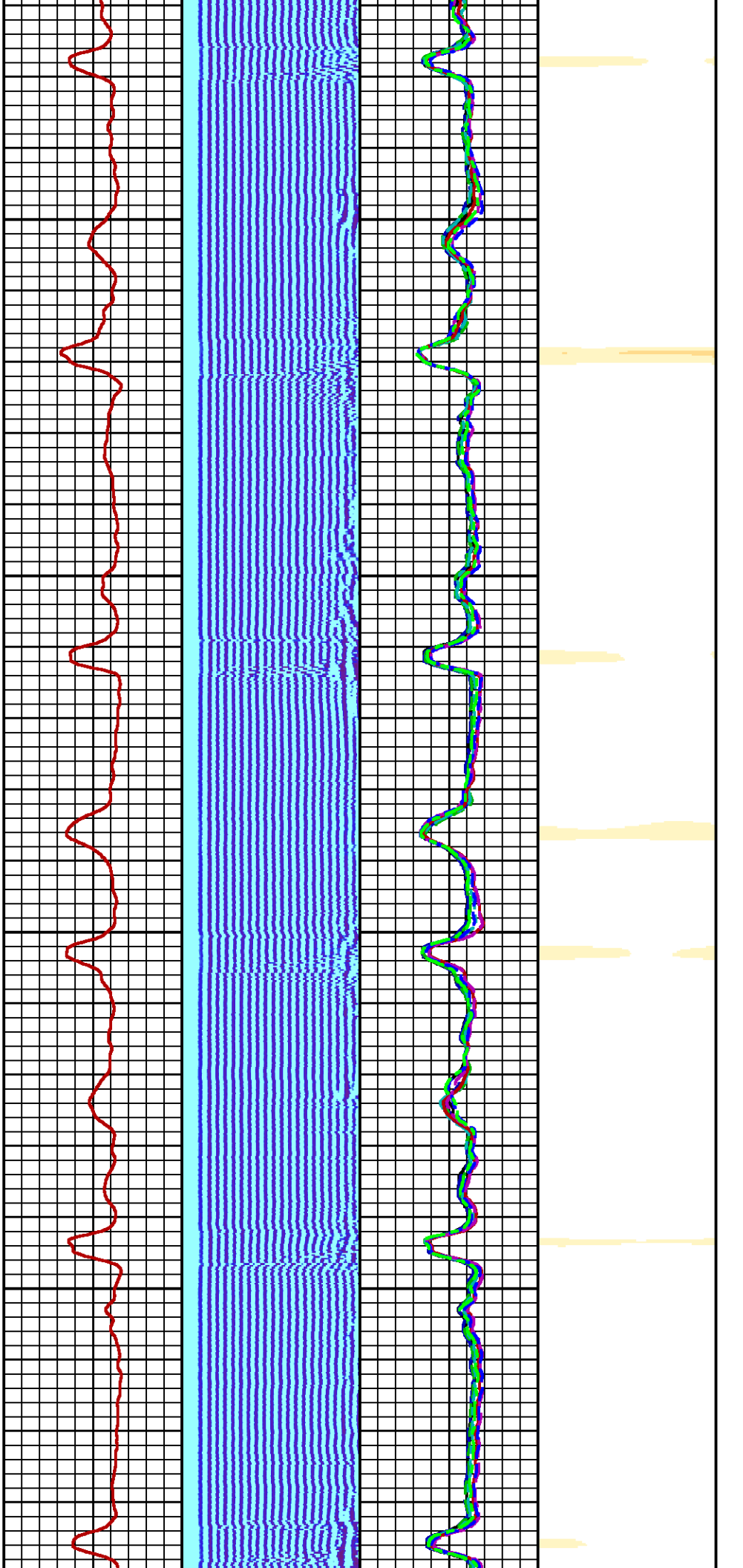




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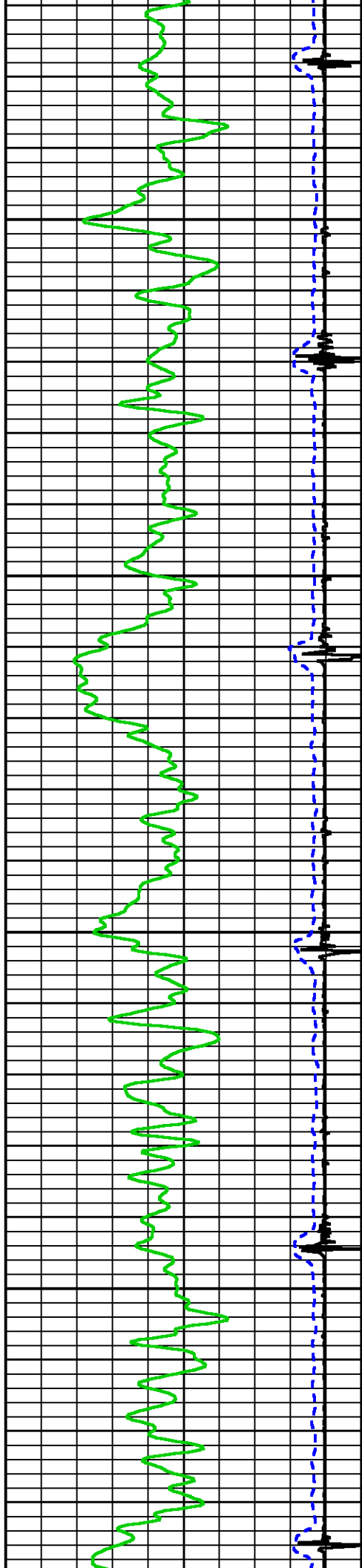
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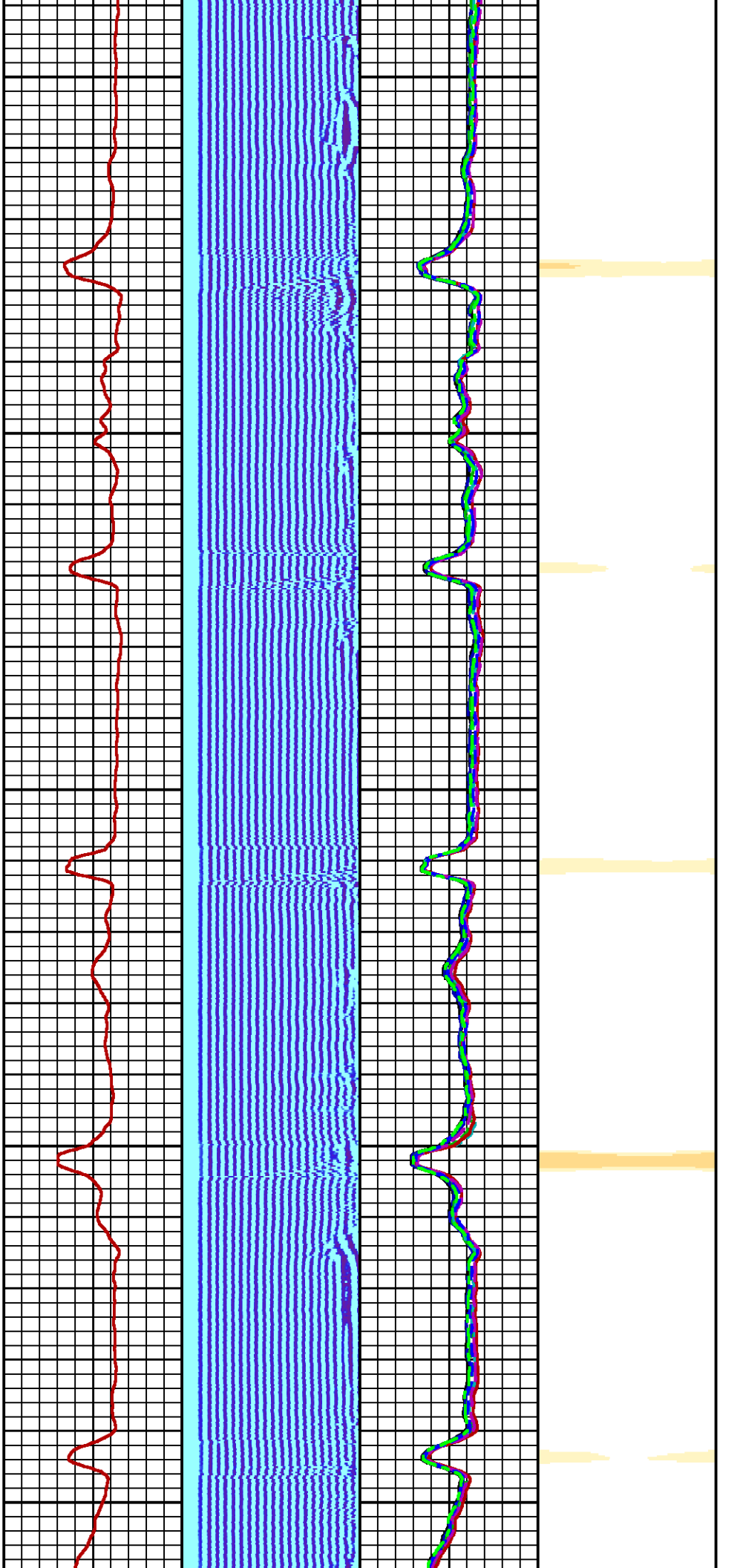




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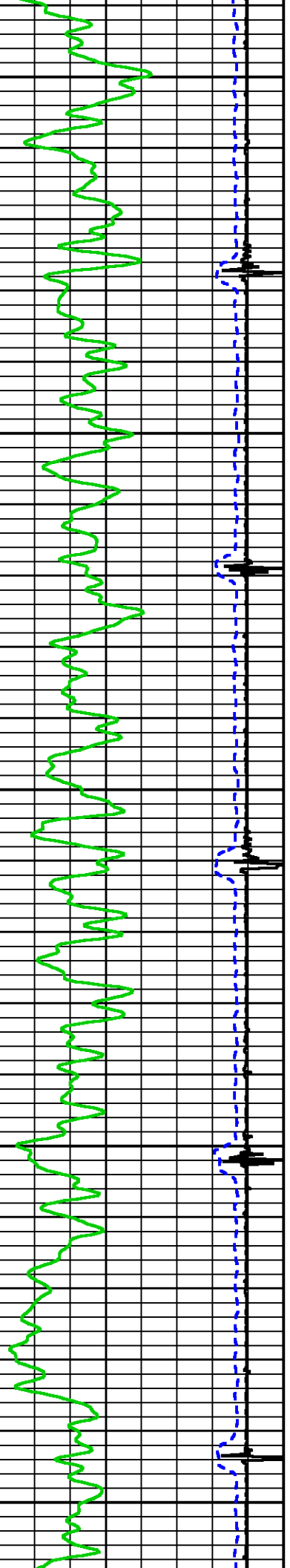


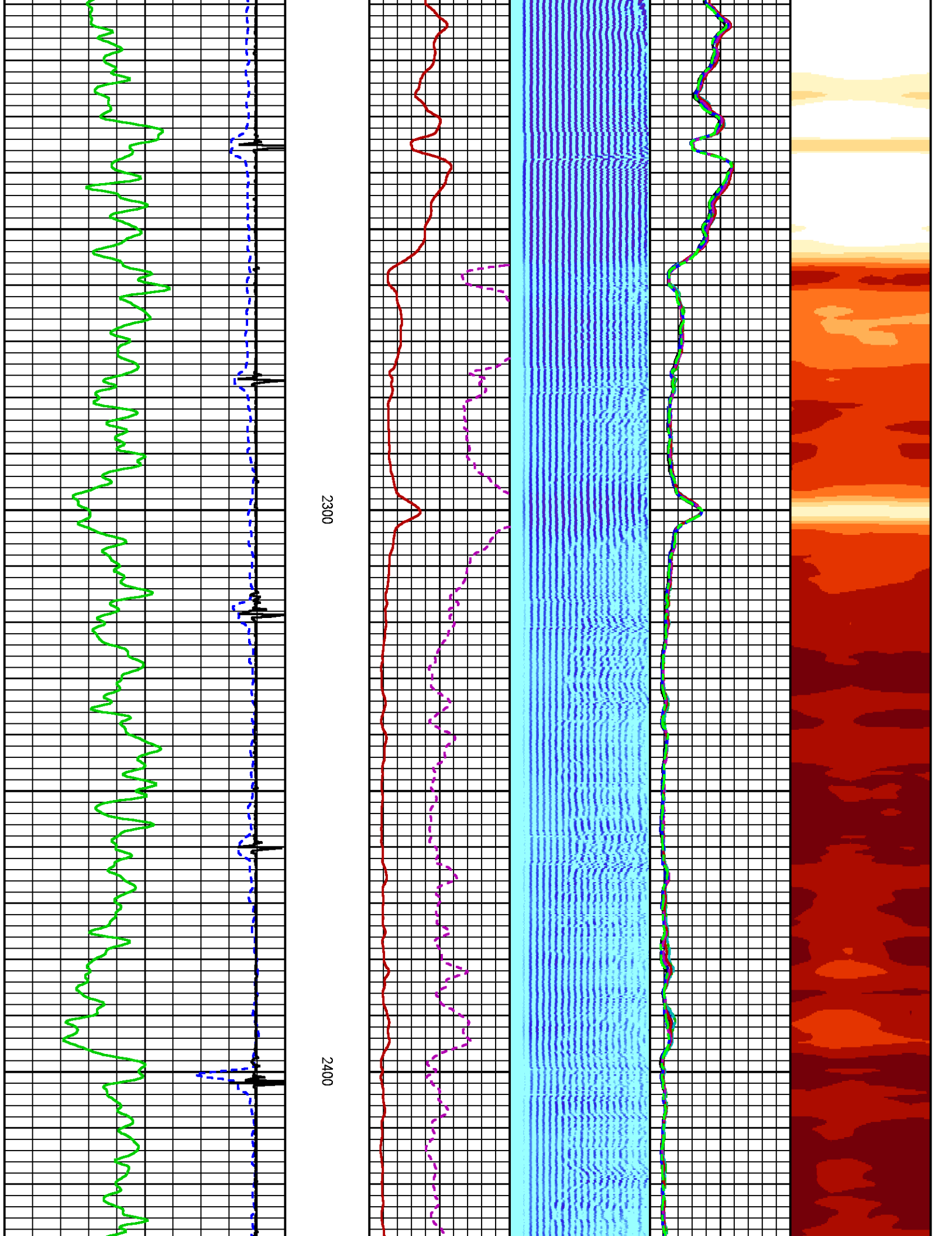


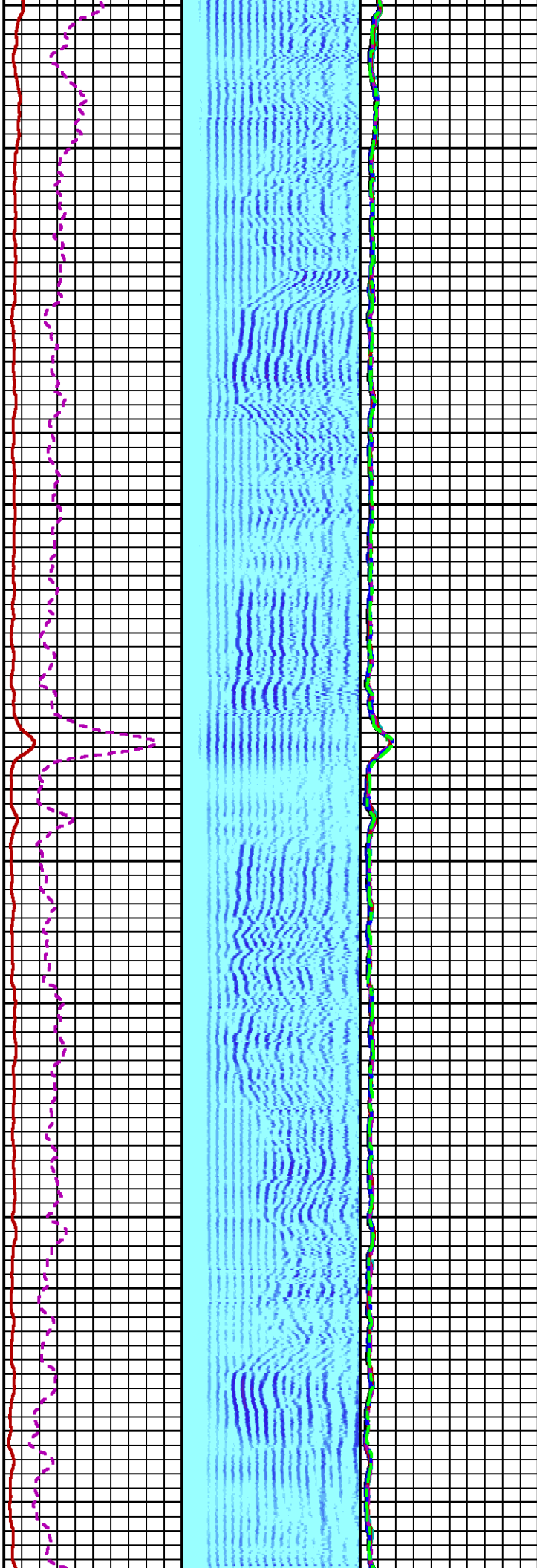
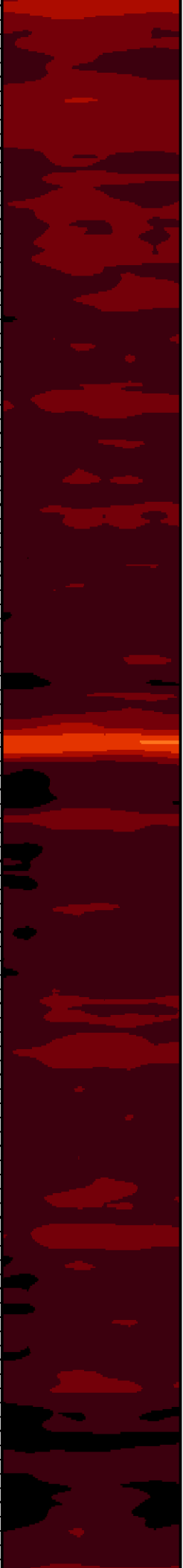
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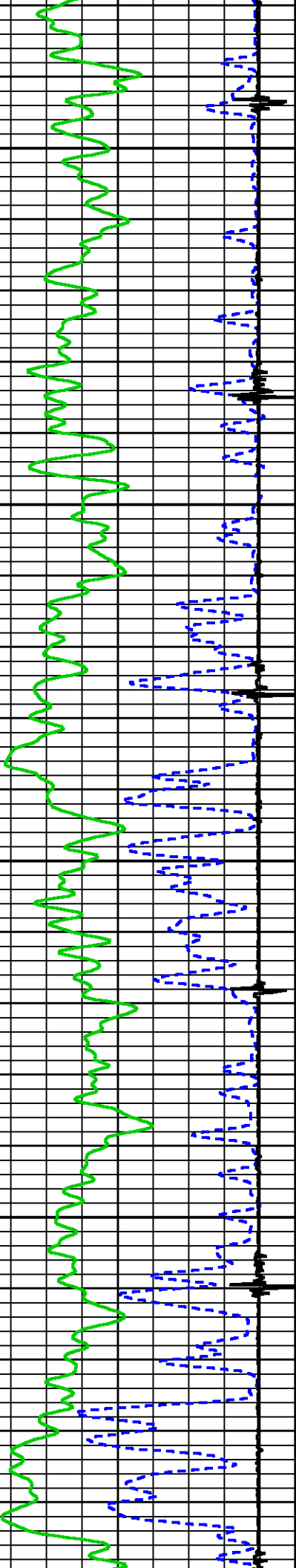


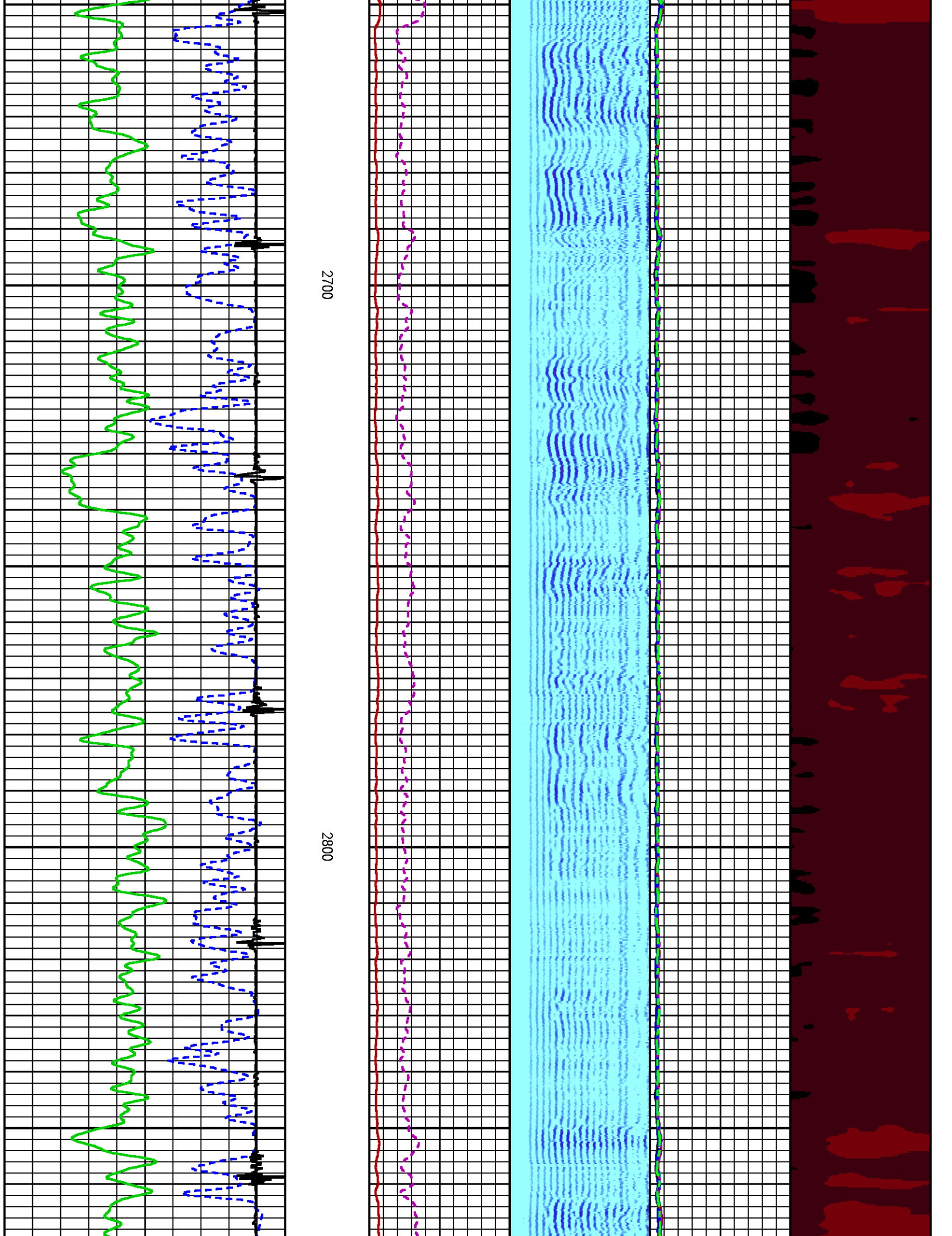


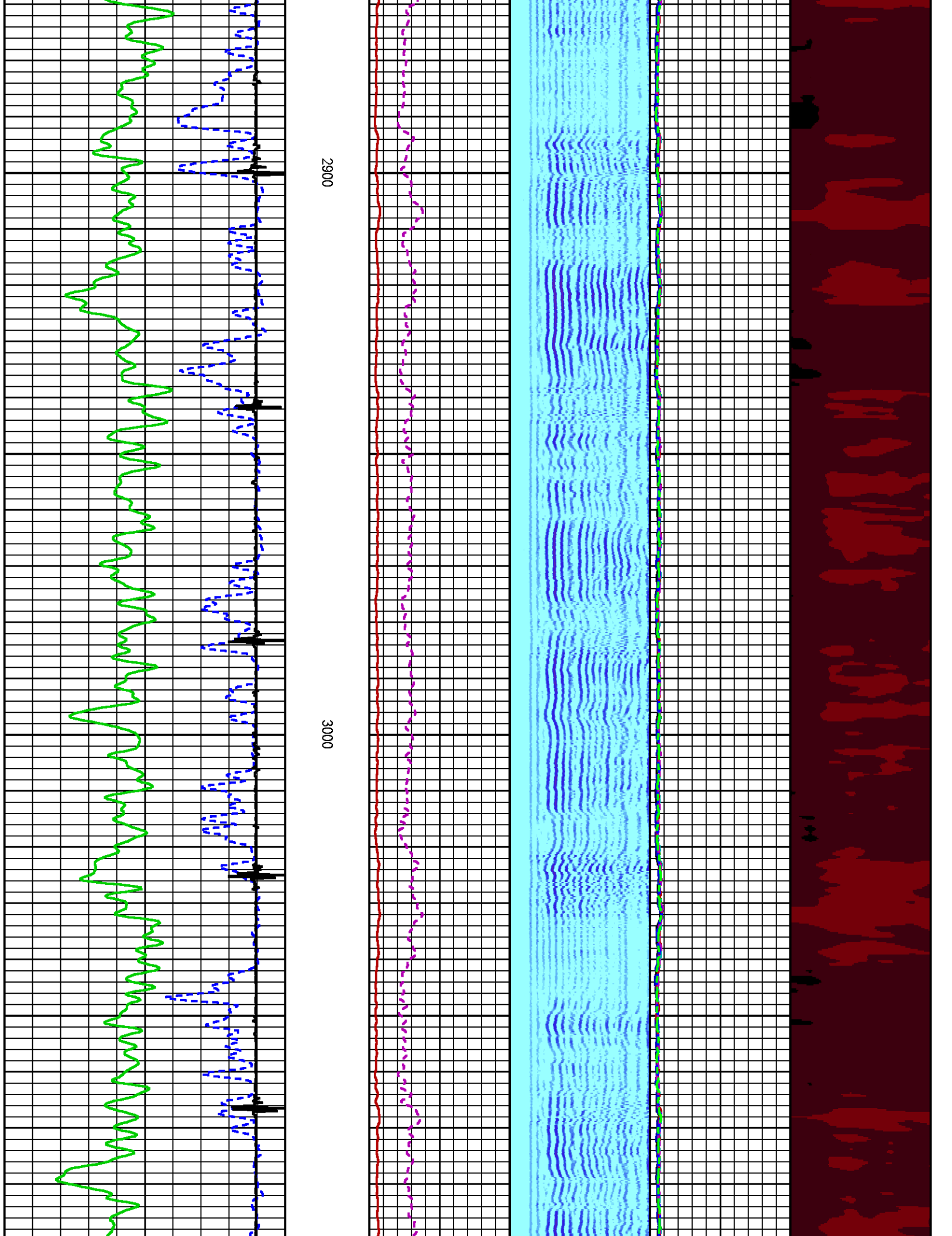


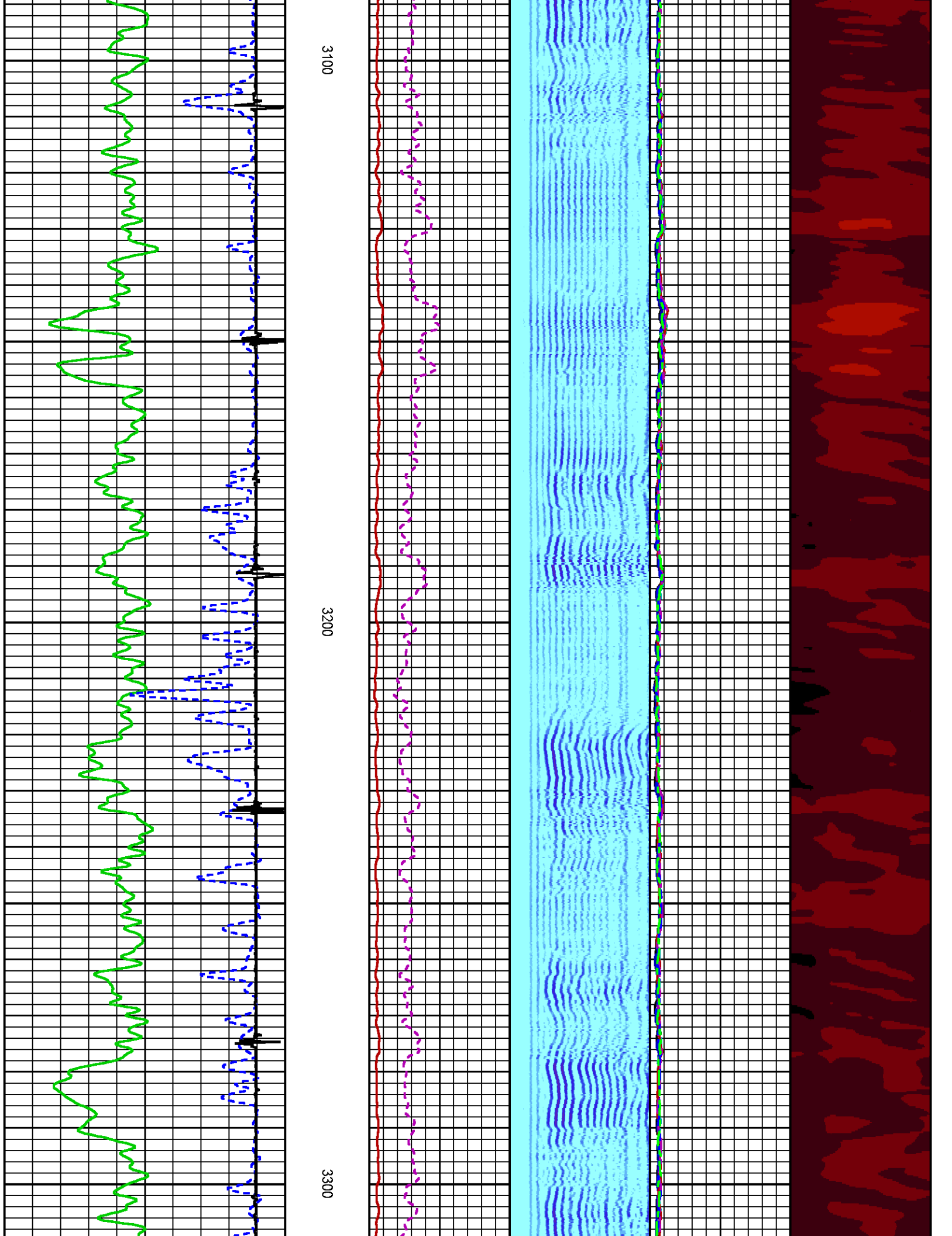
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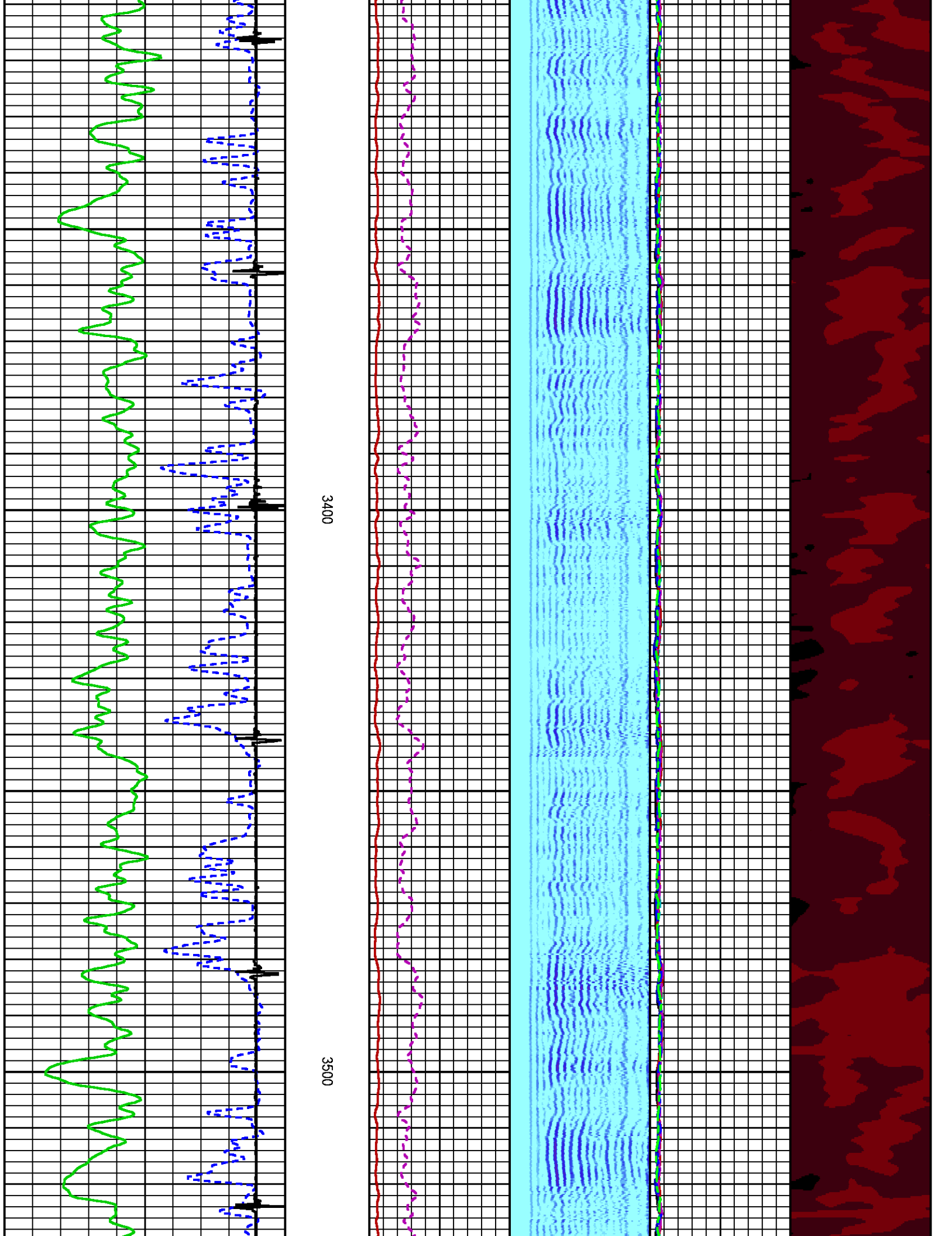
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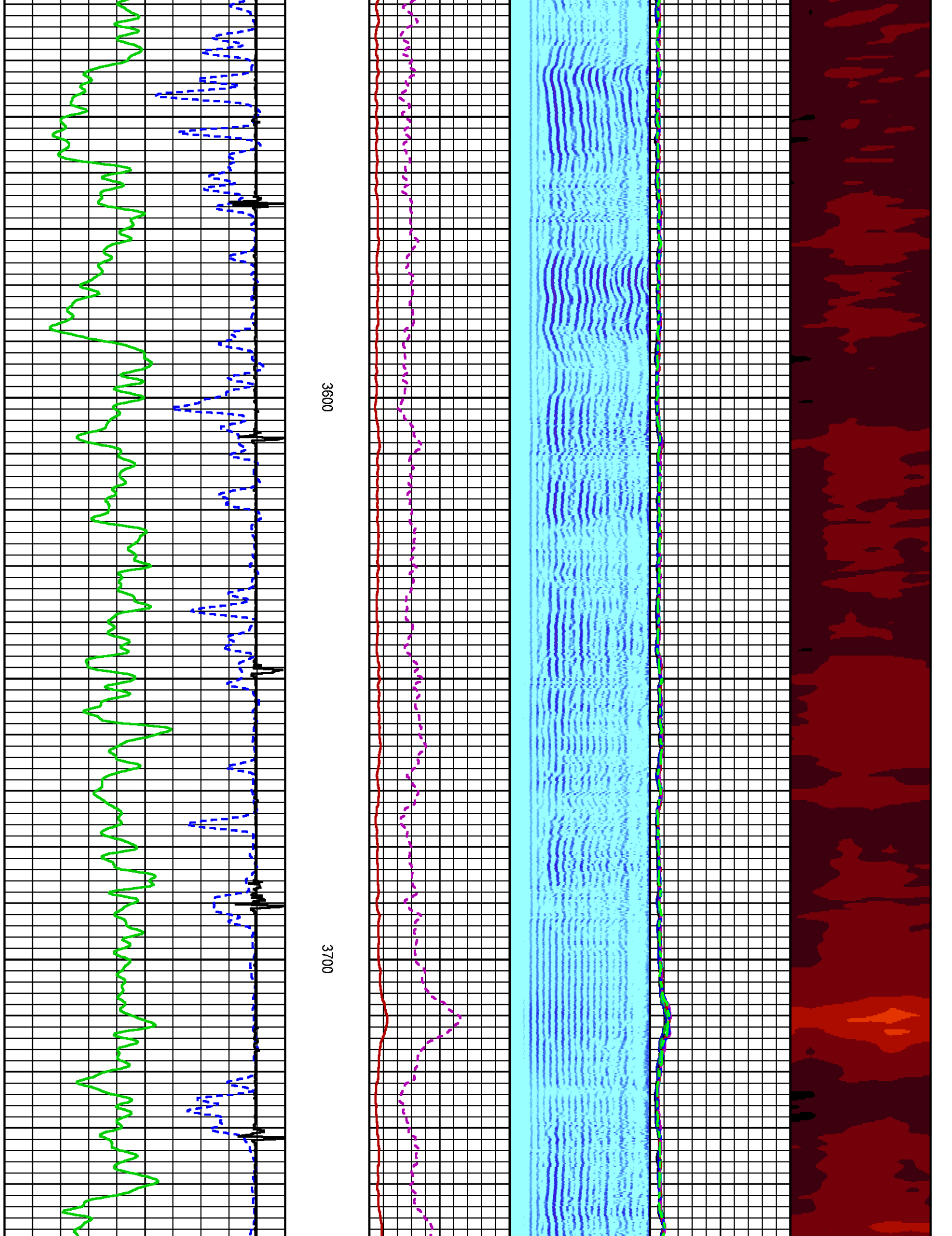


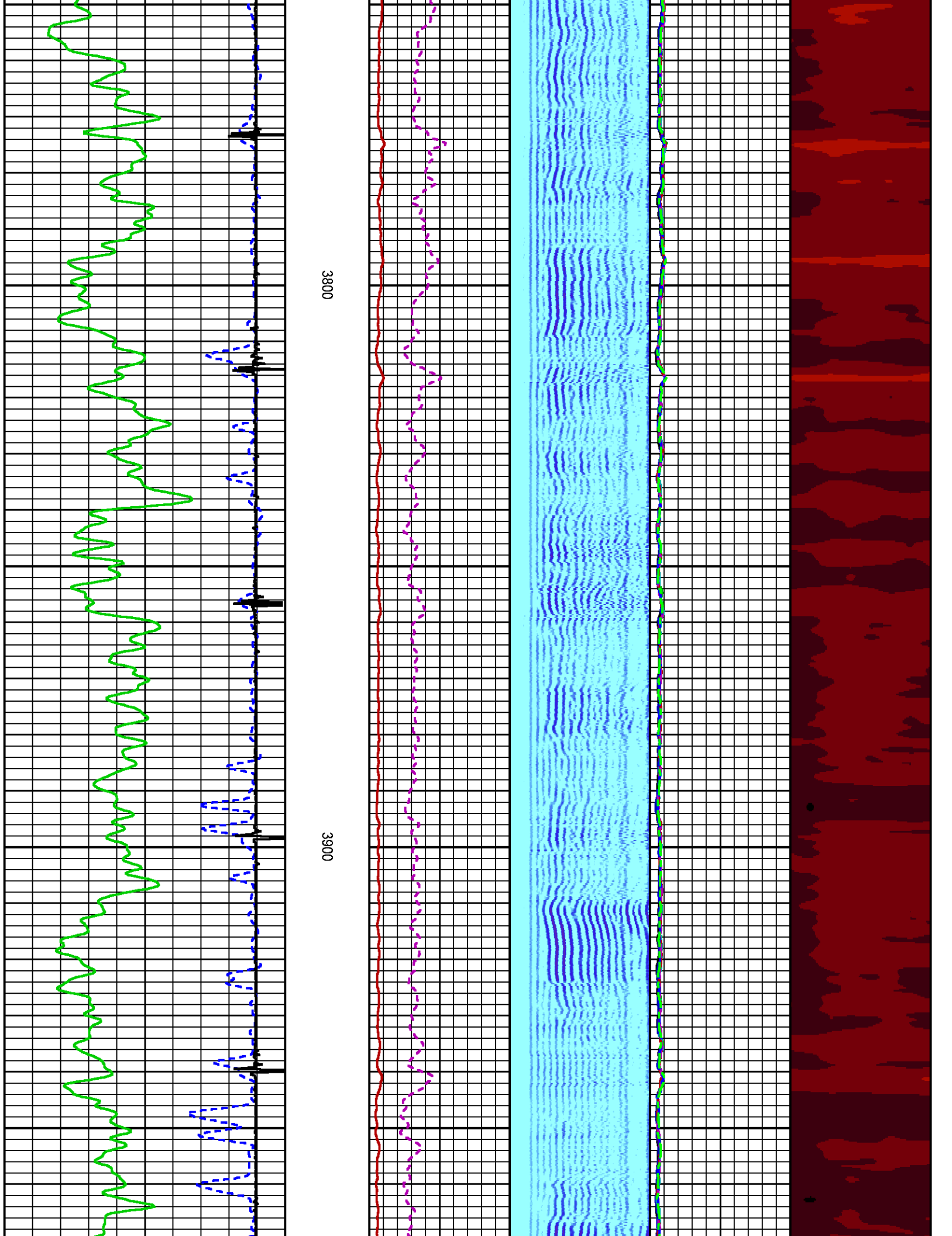


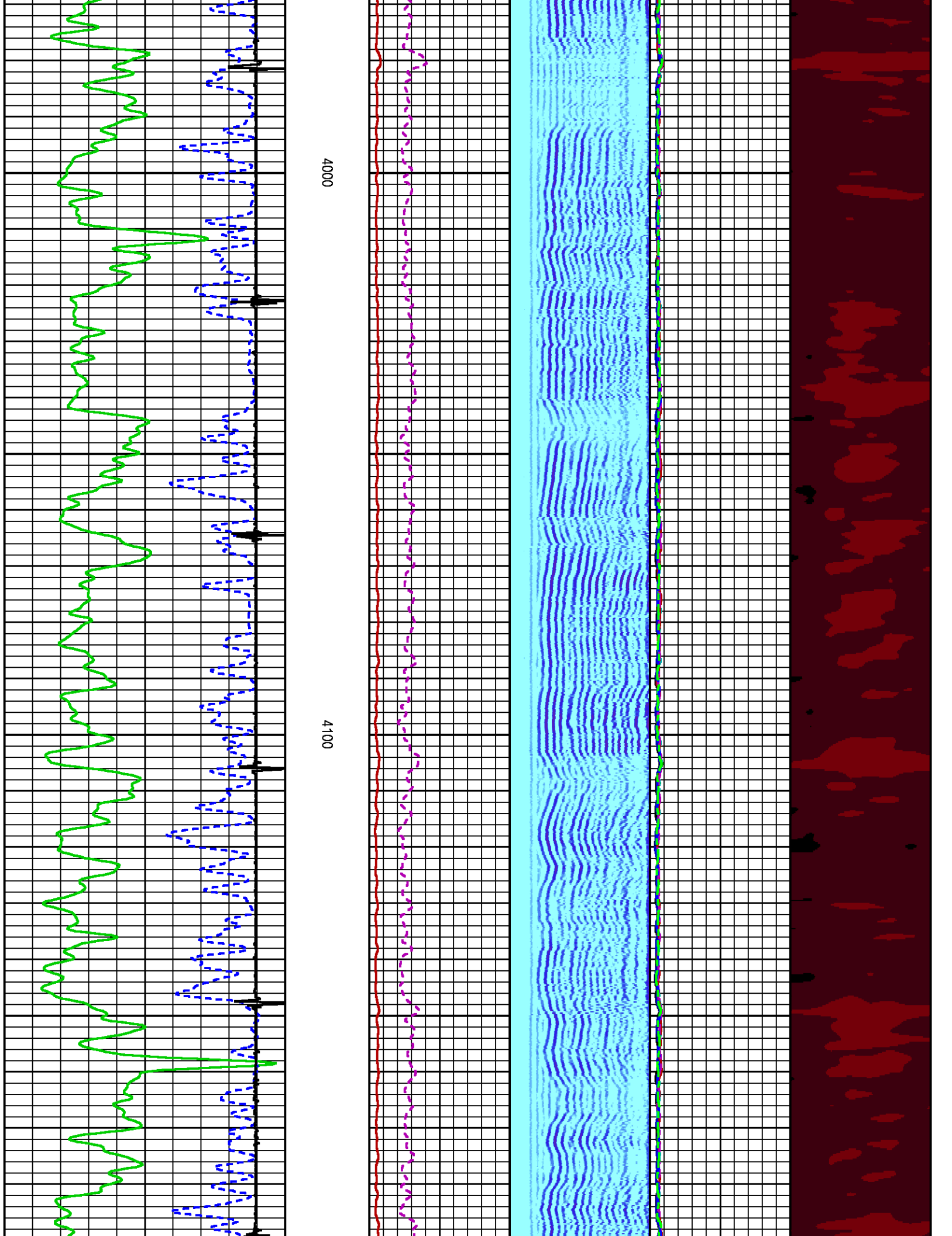


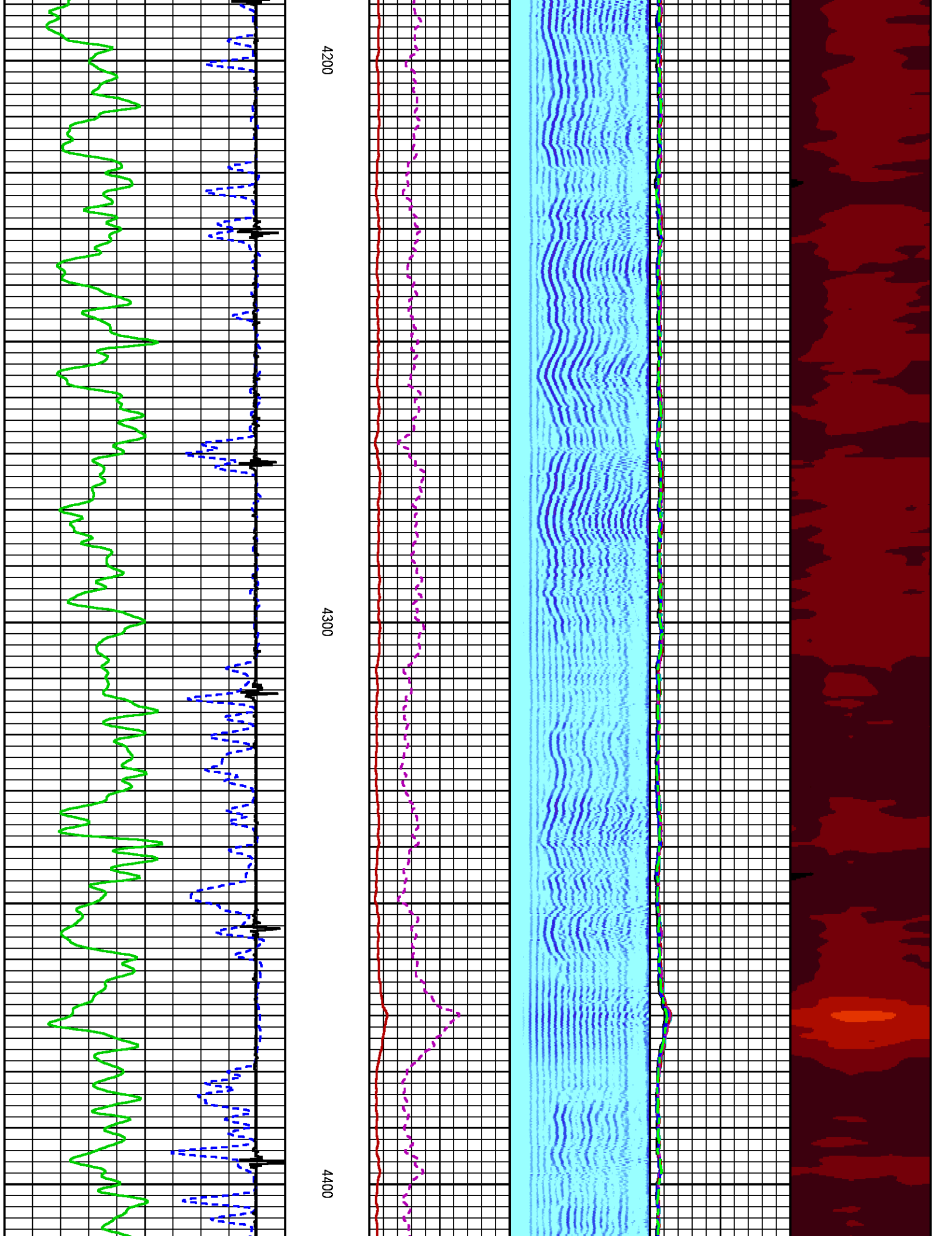


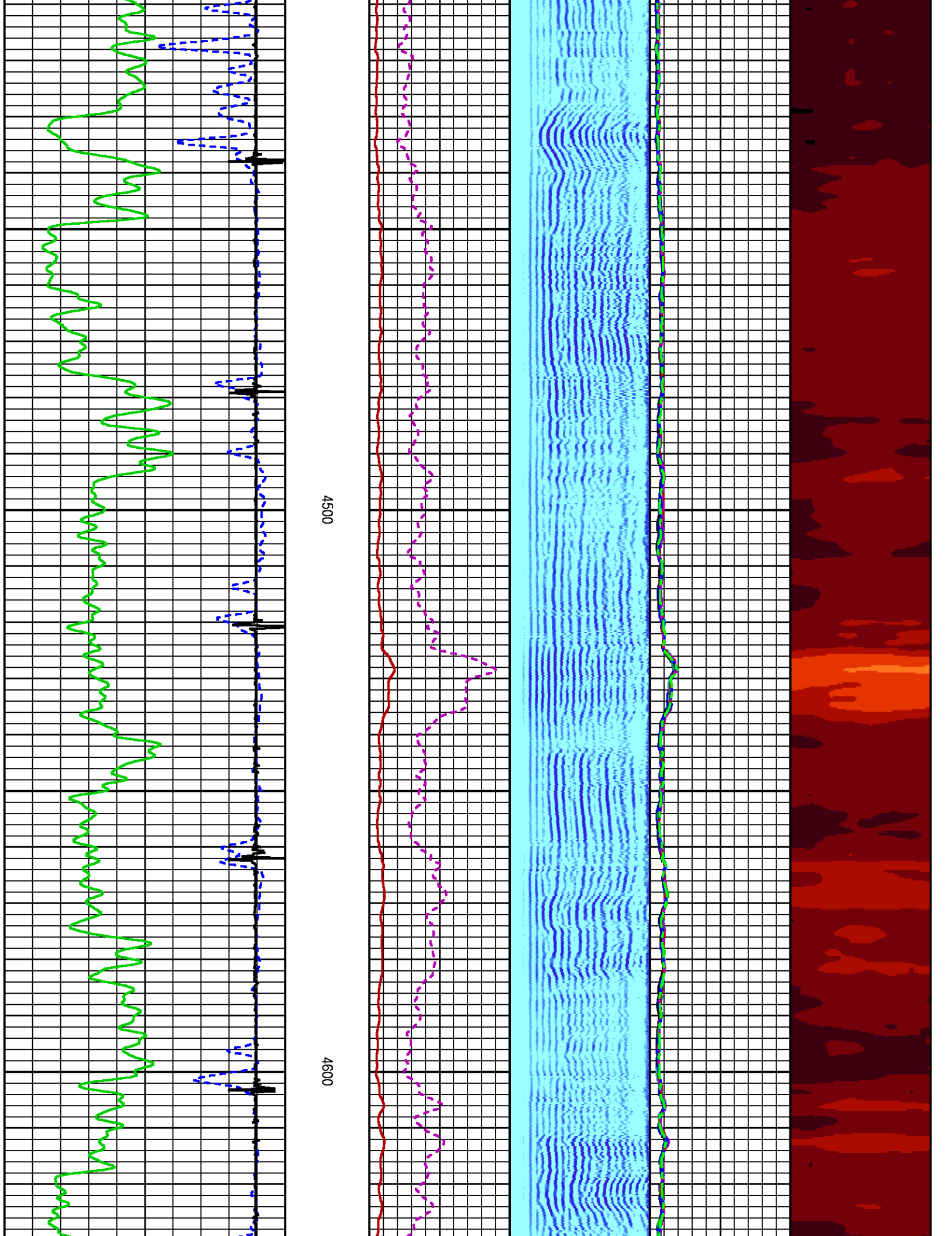


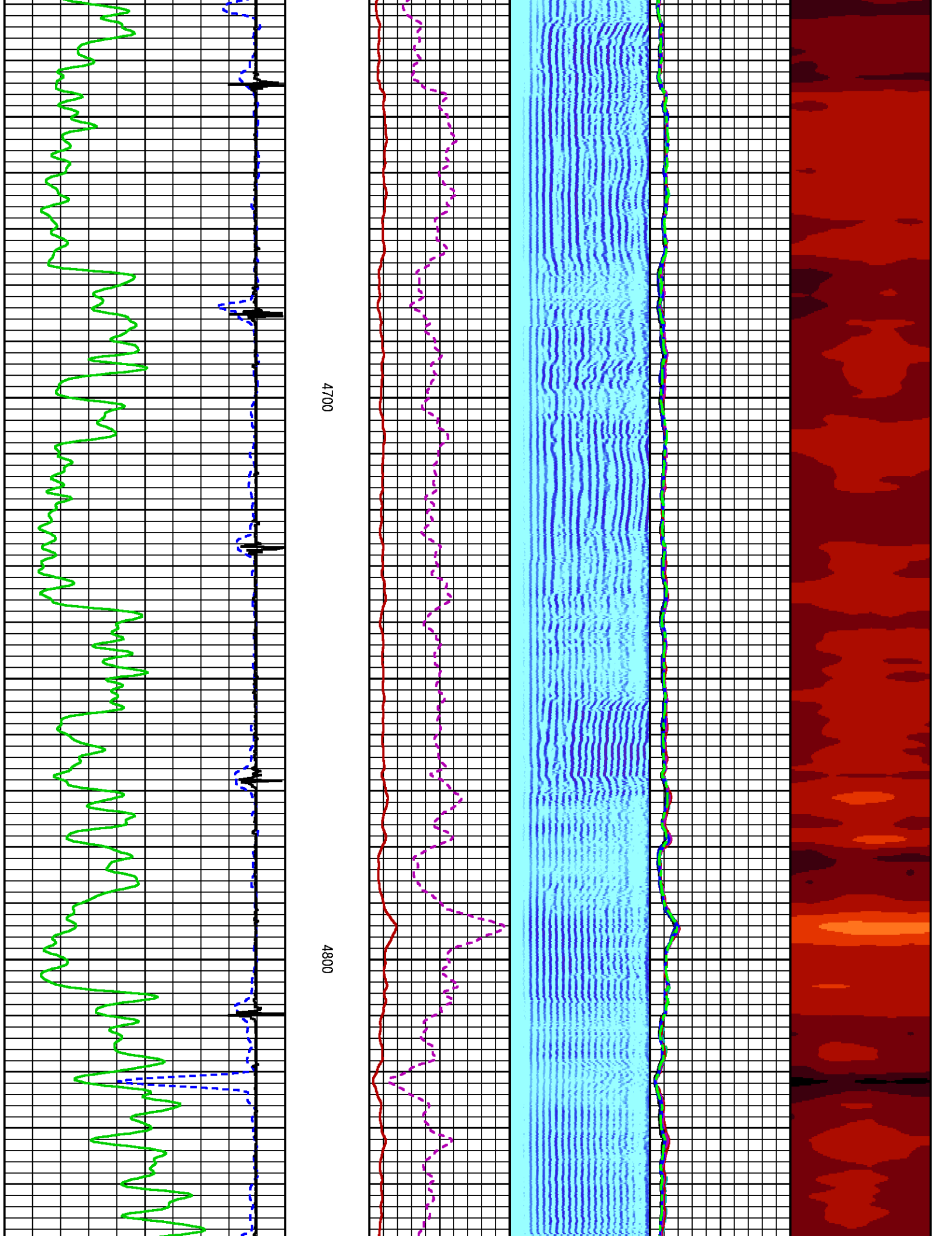


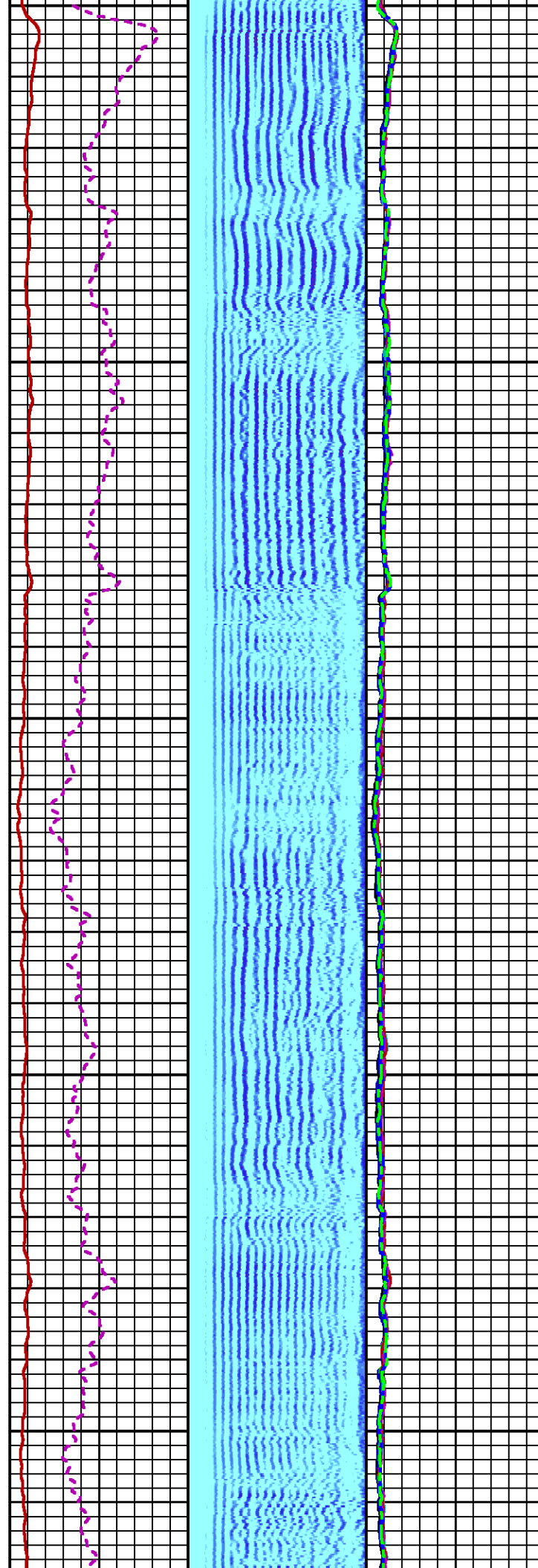
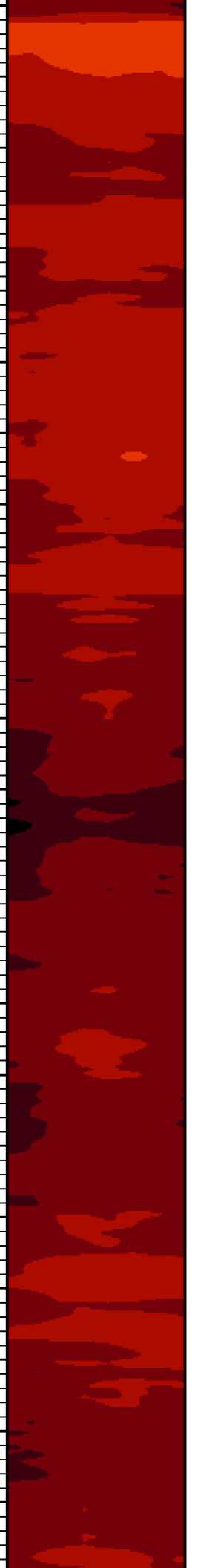






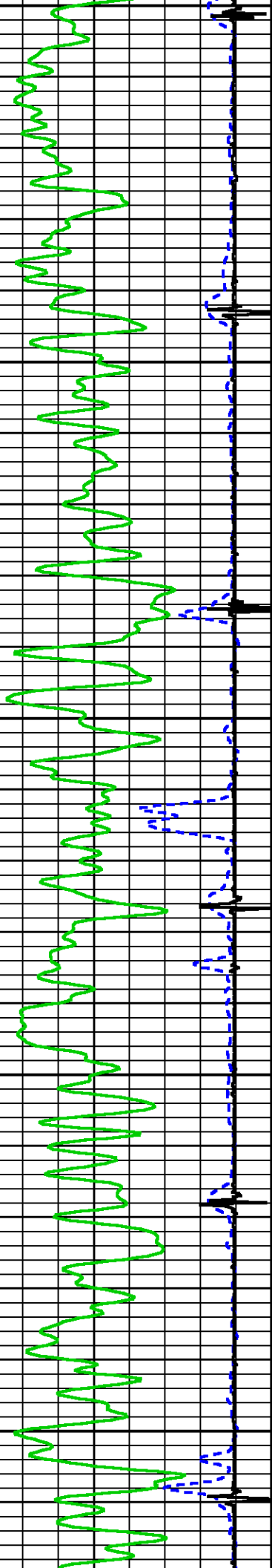


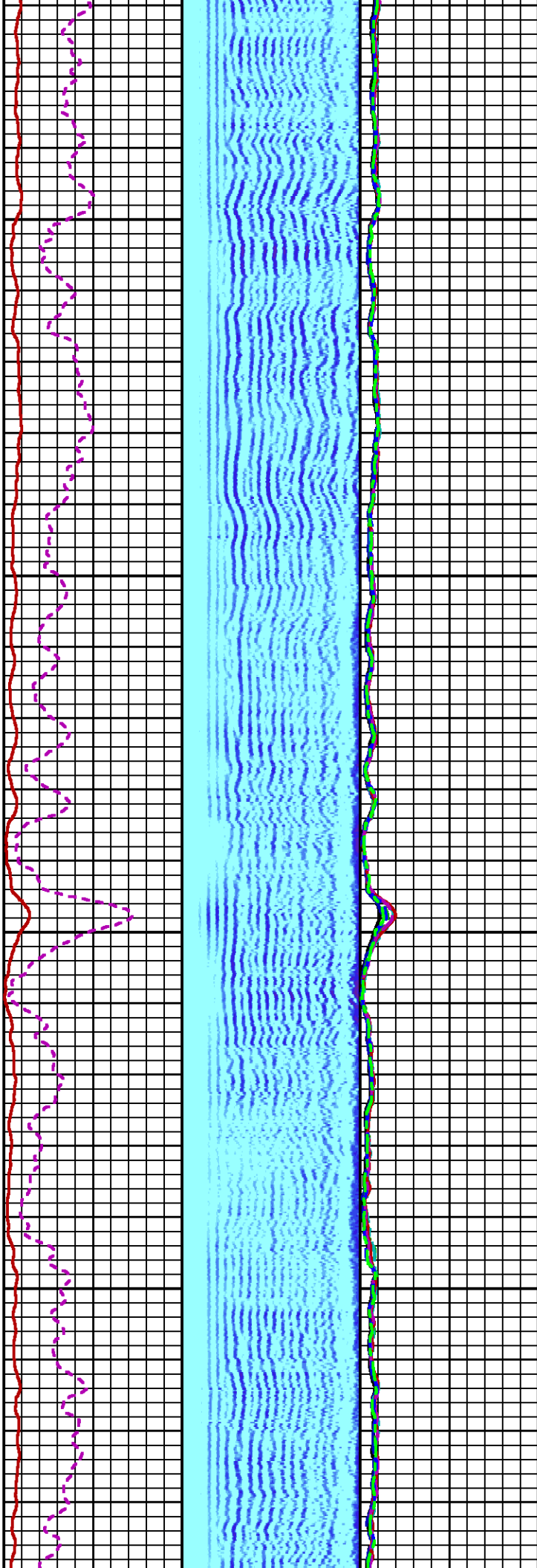
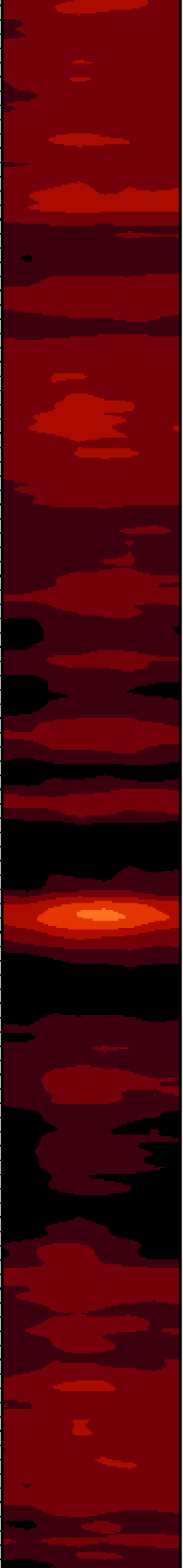




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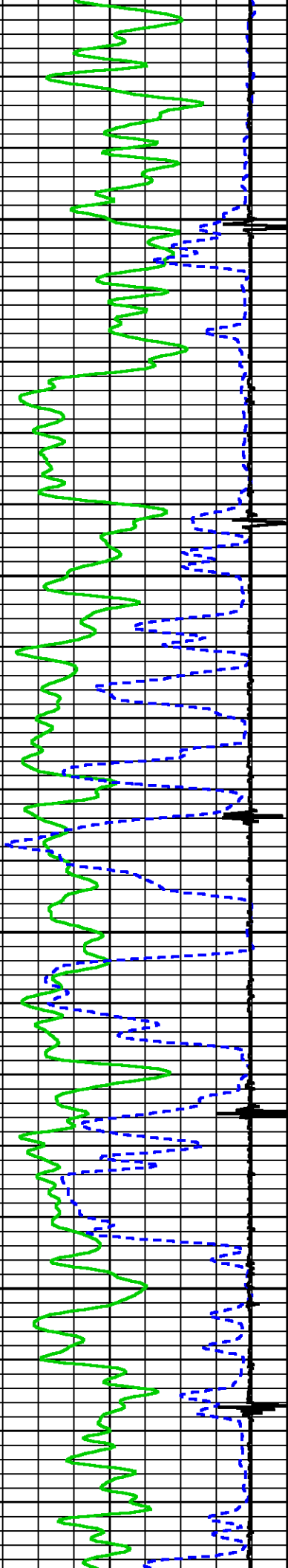
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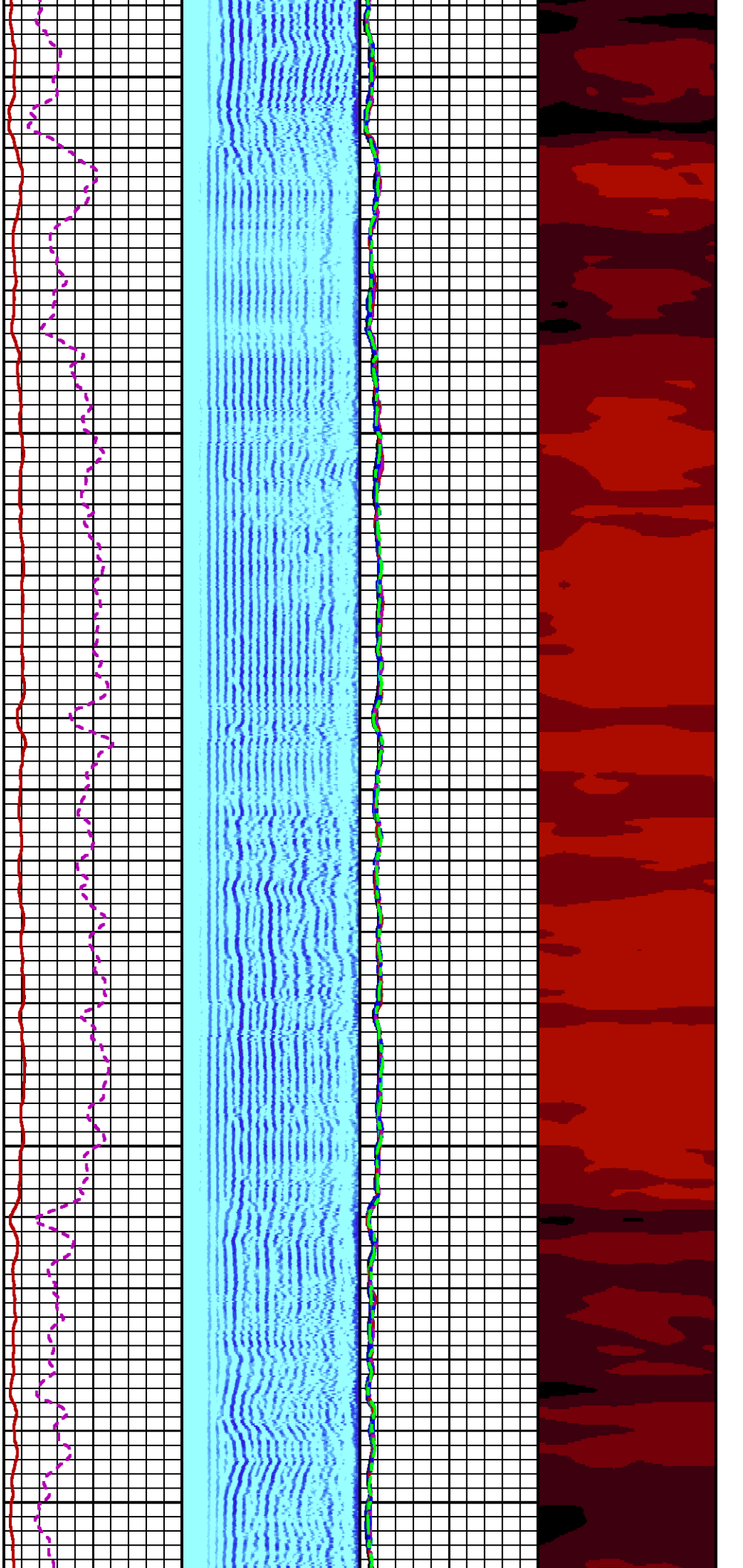




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5200

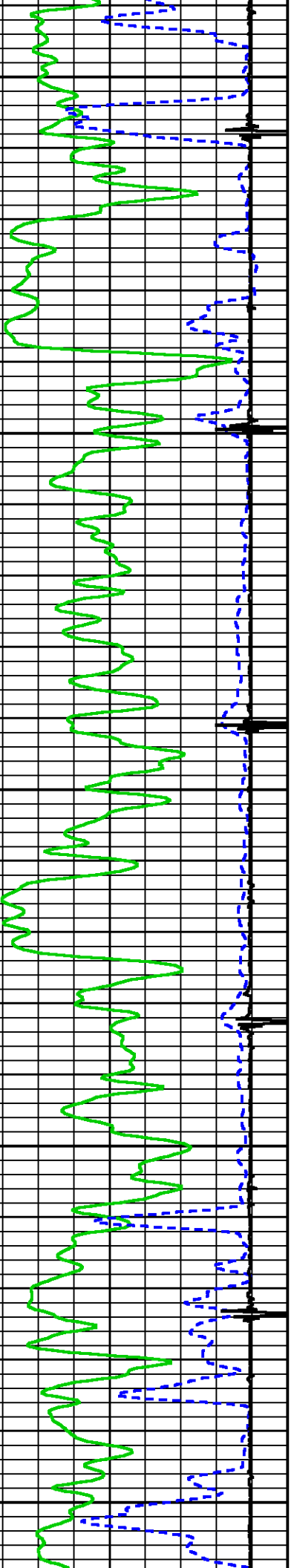


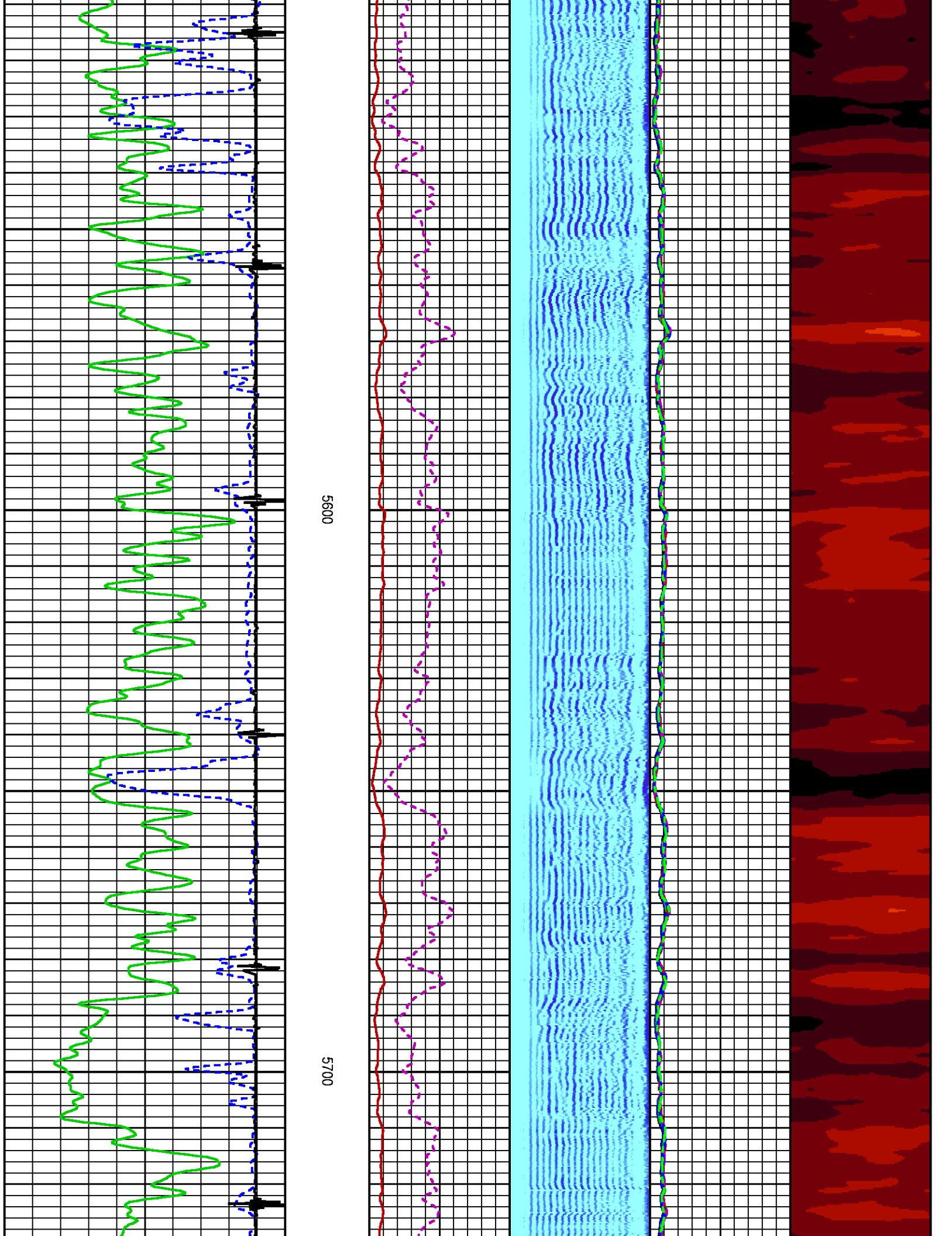


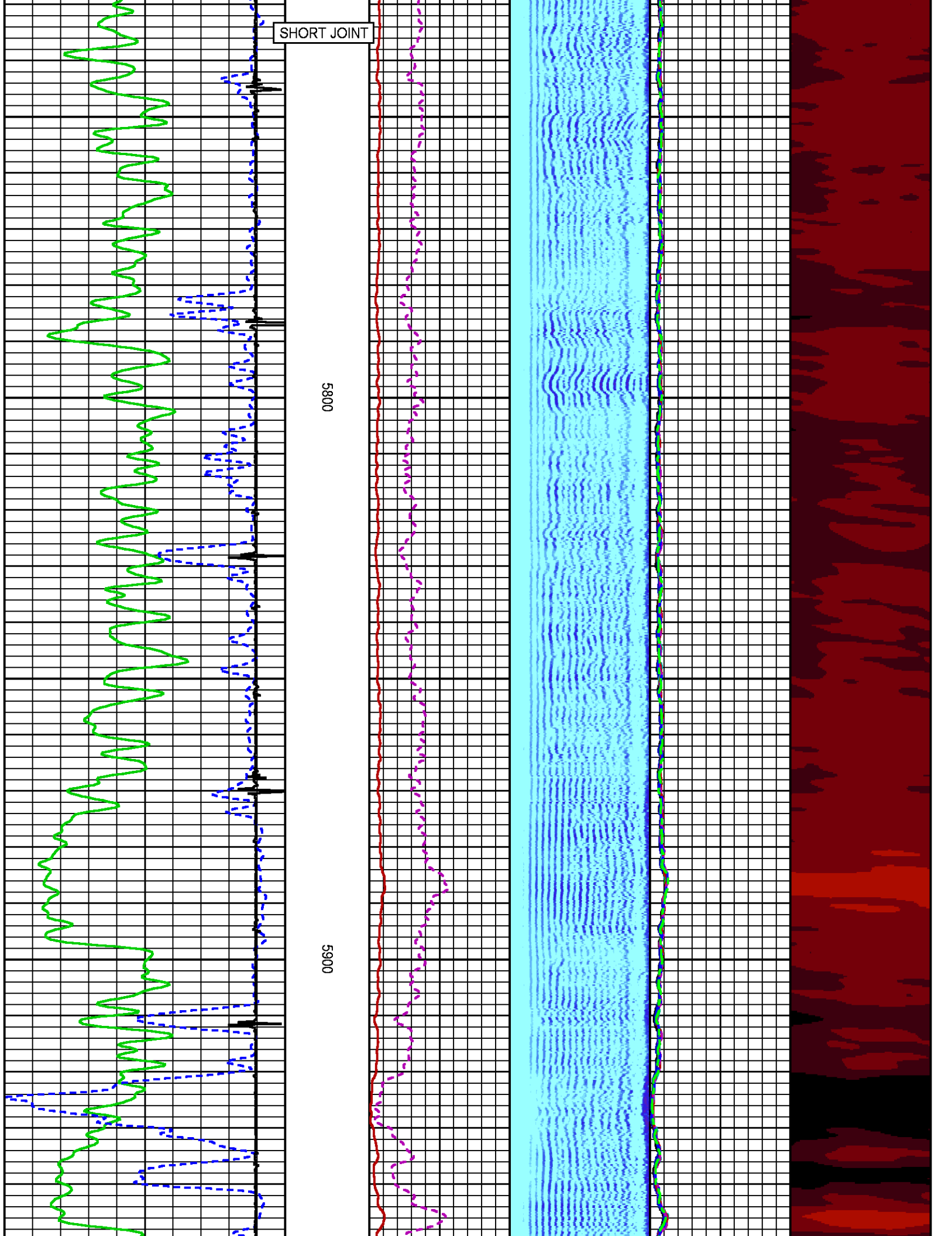
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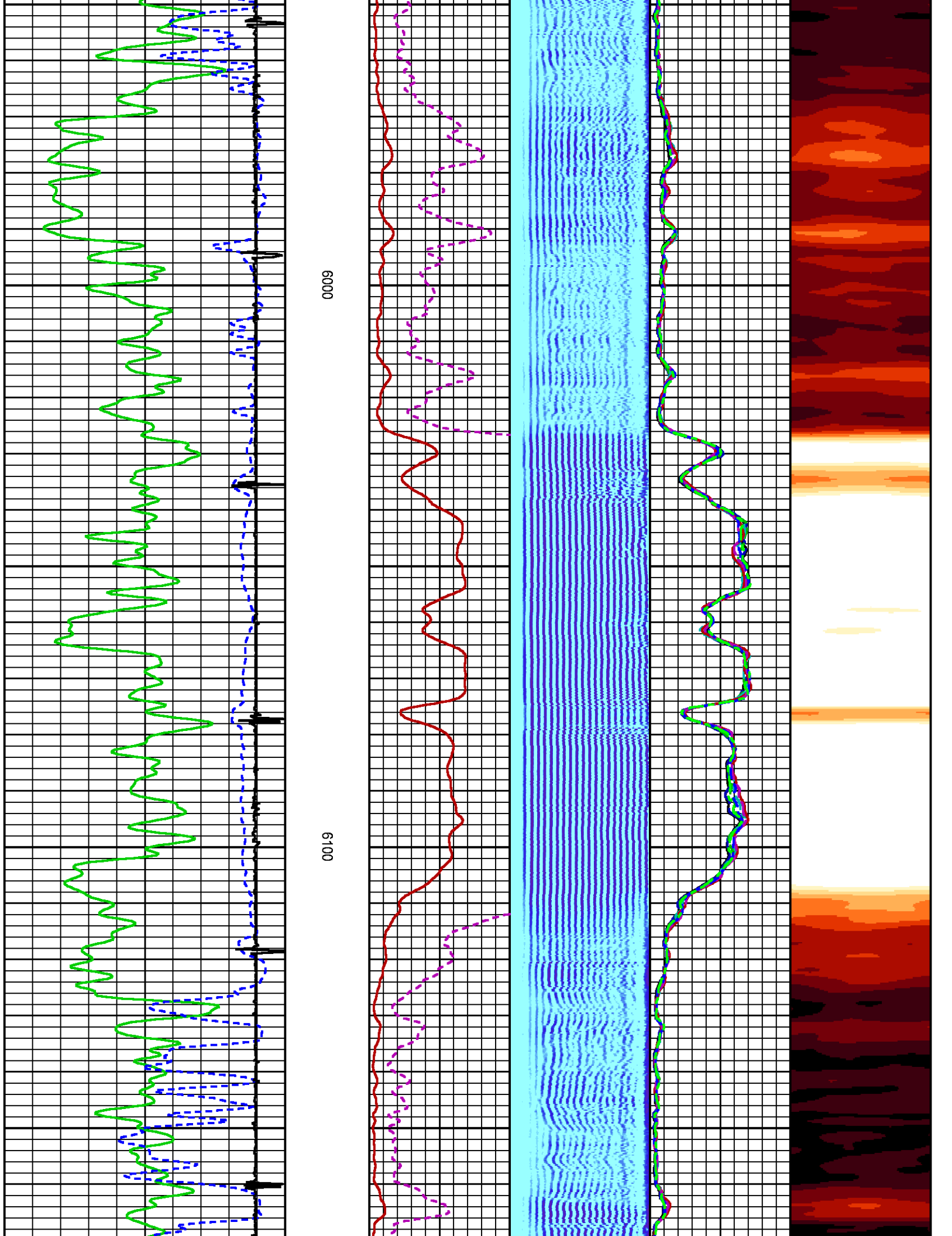
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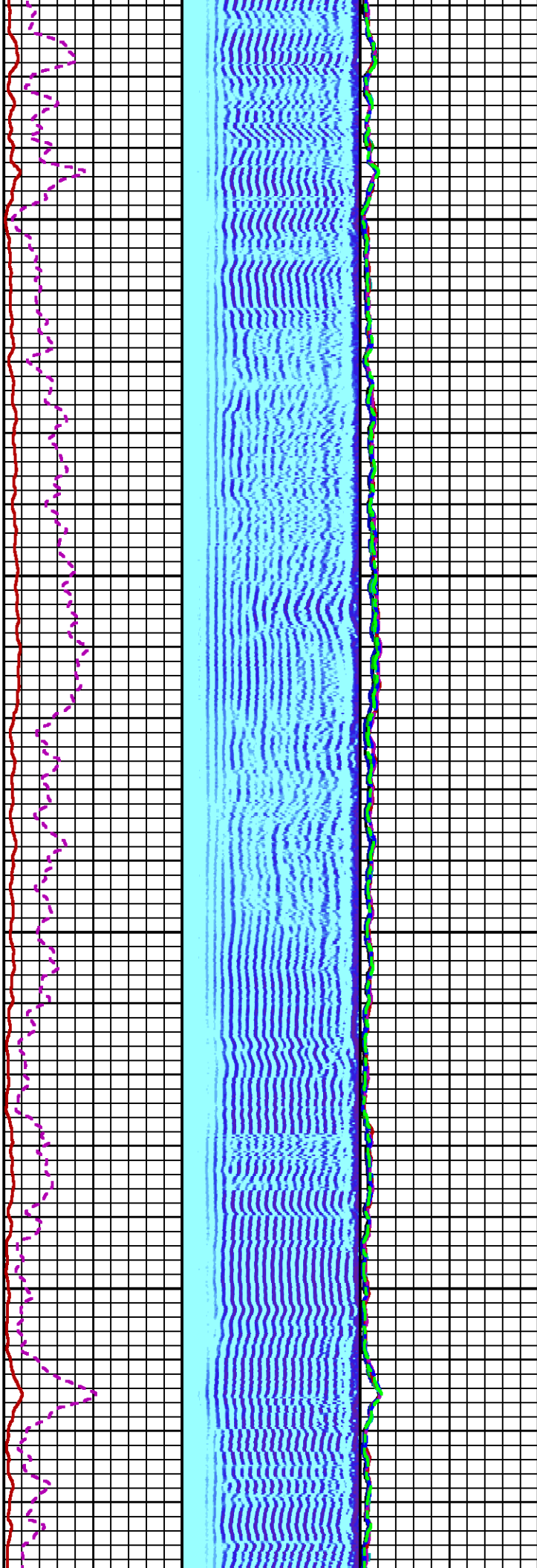
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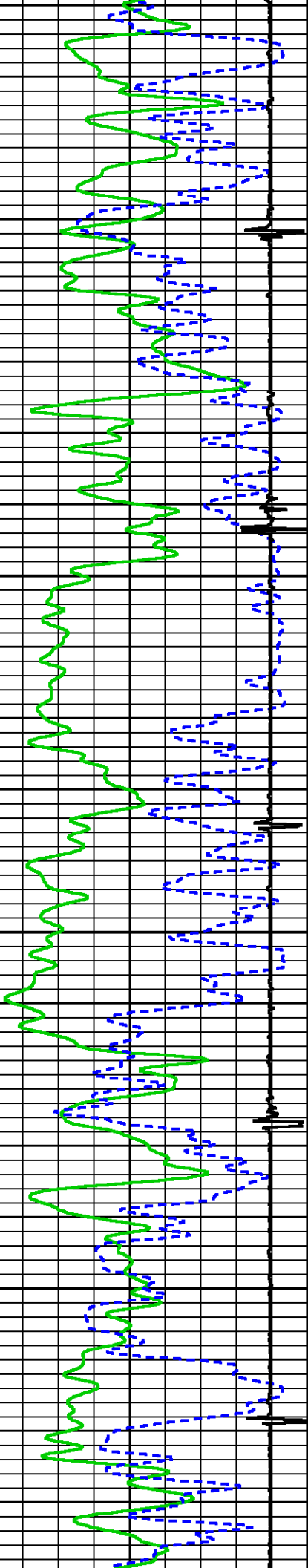


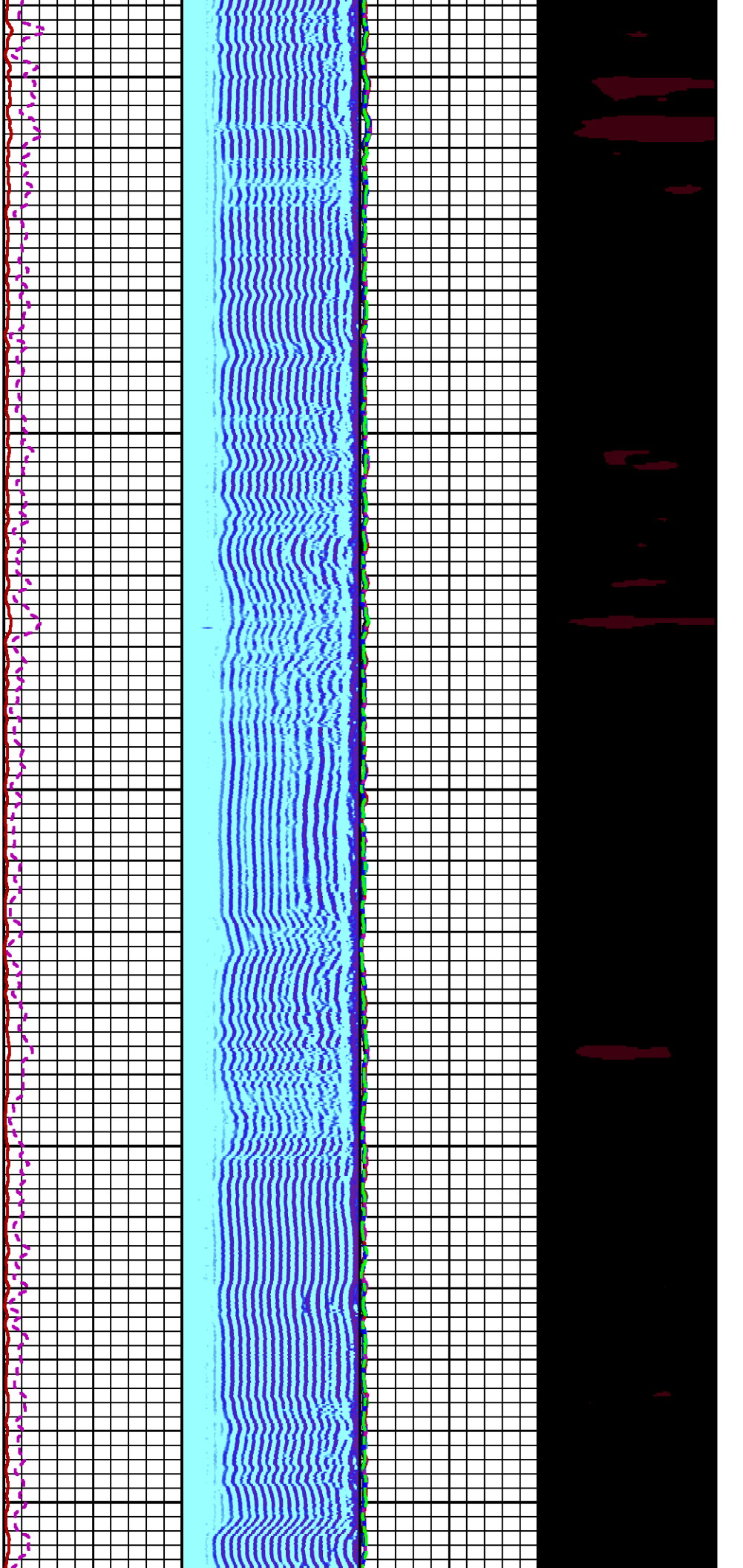




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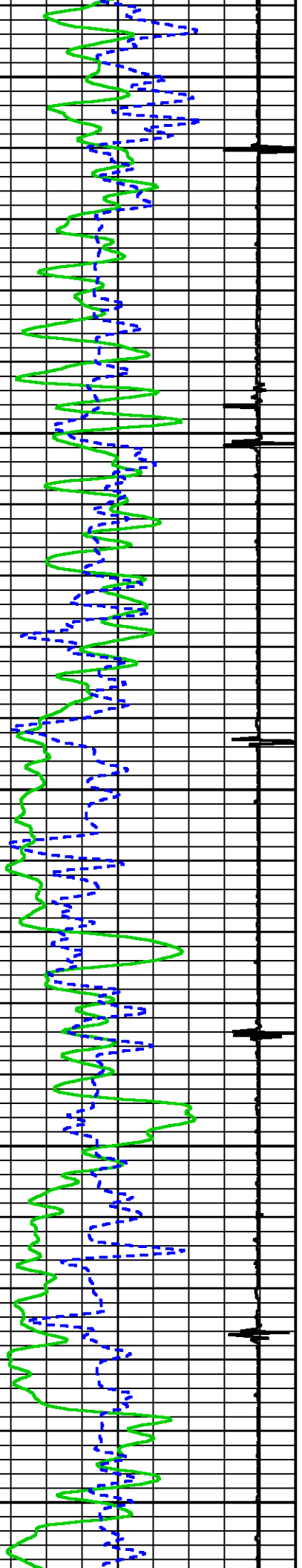


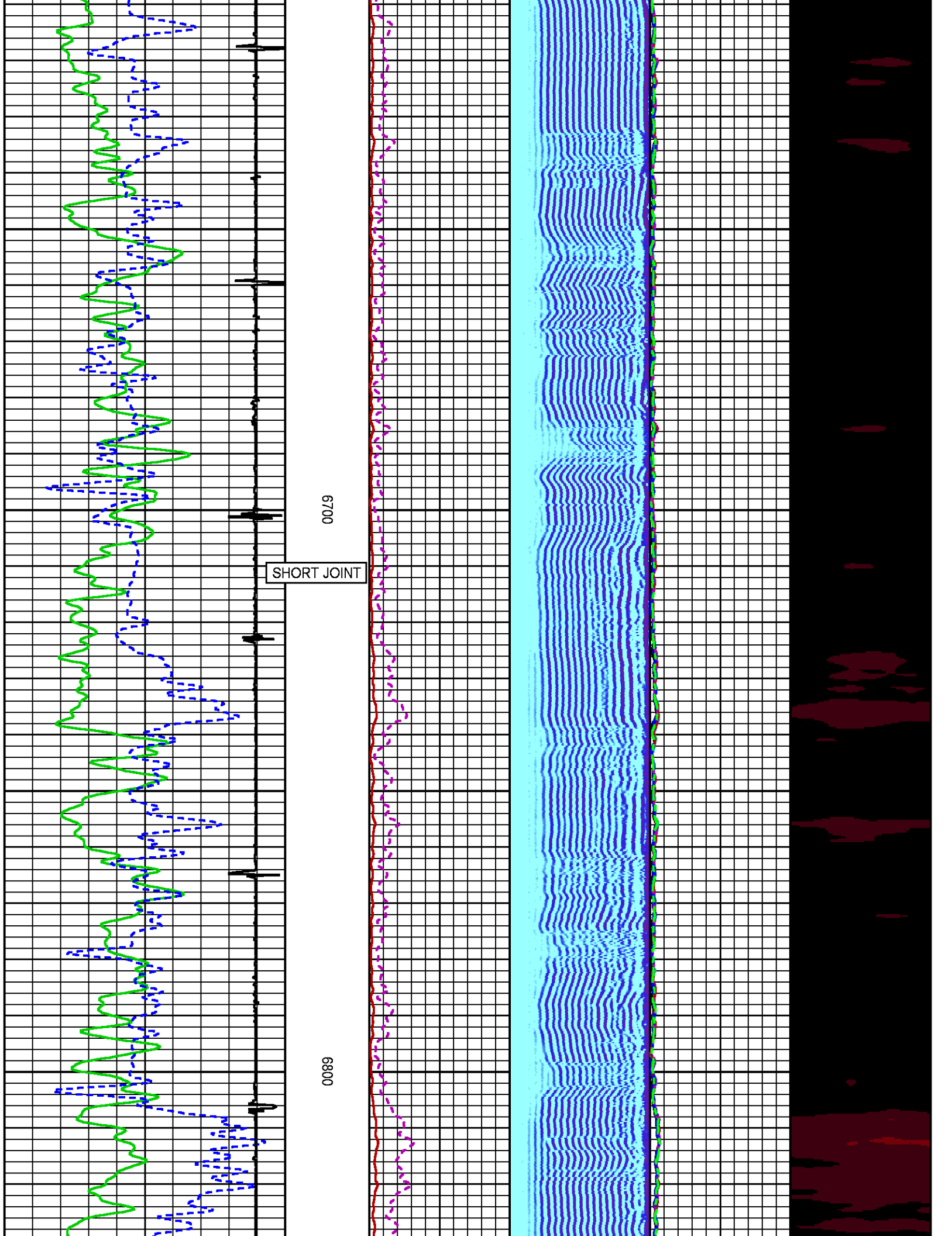


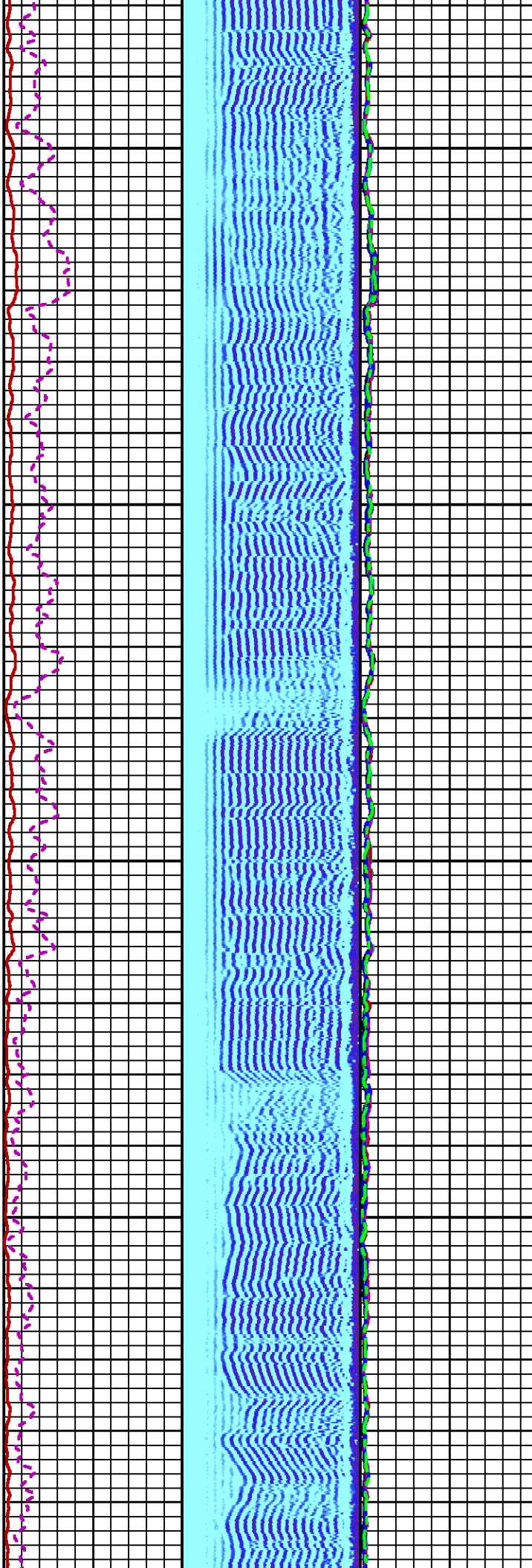
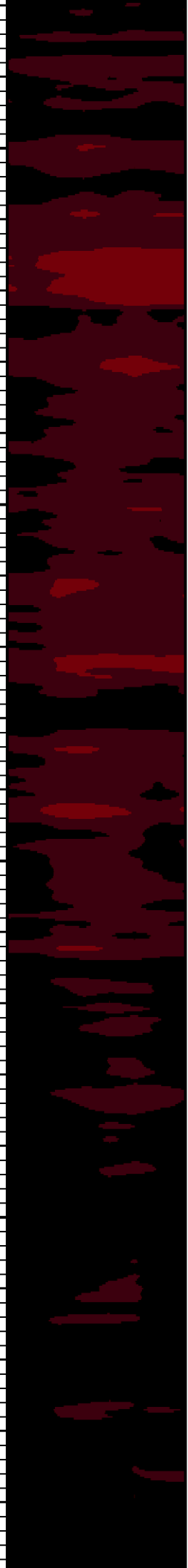
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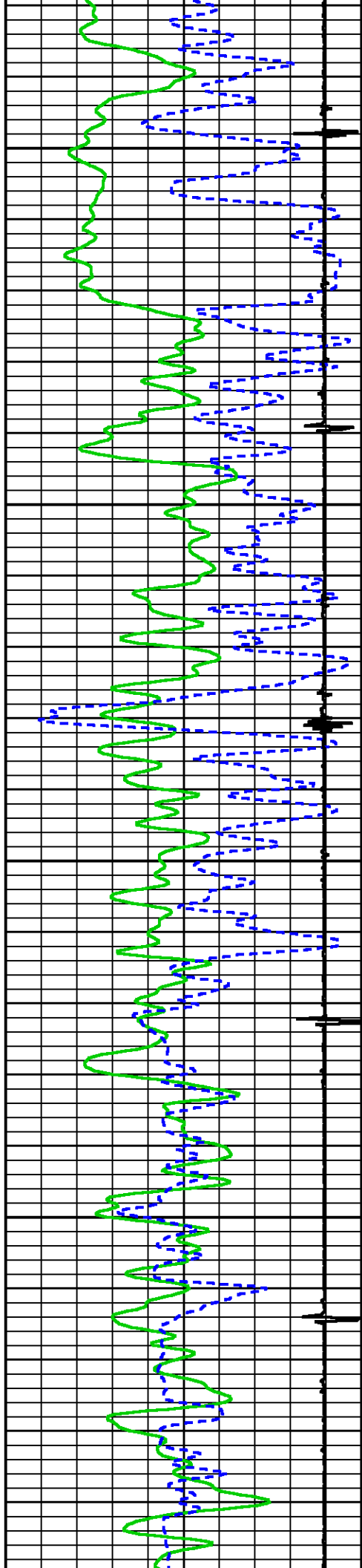


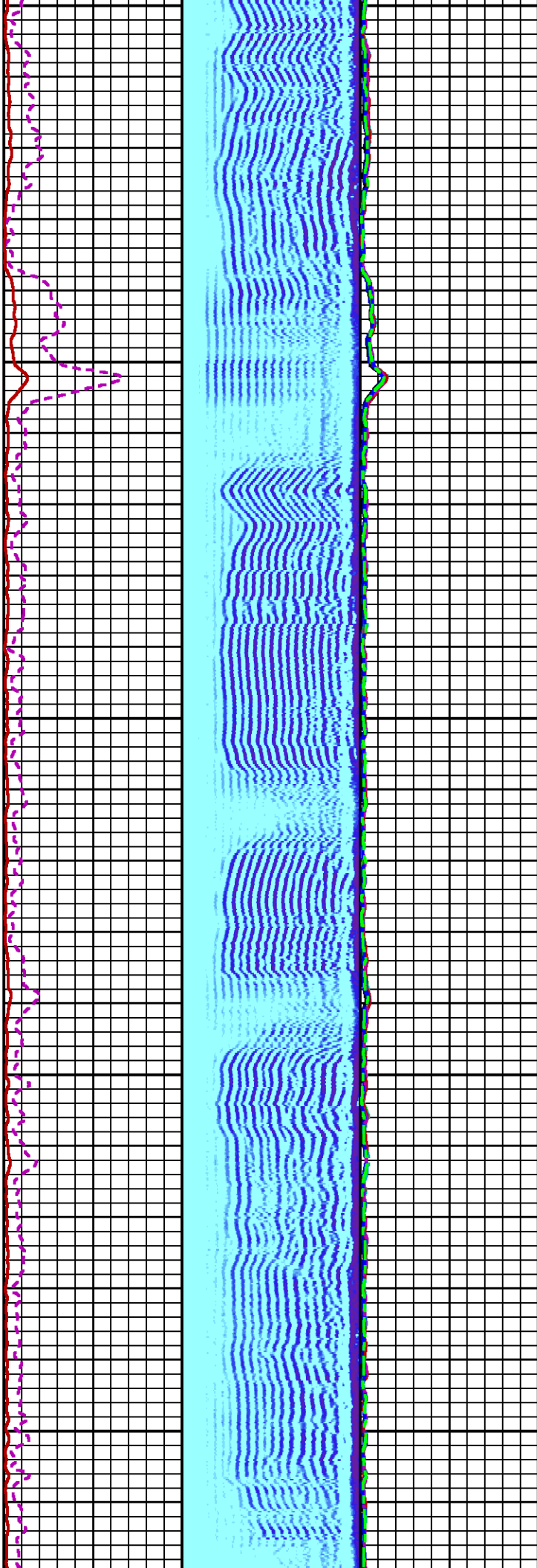
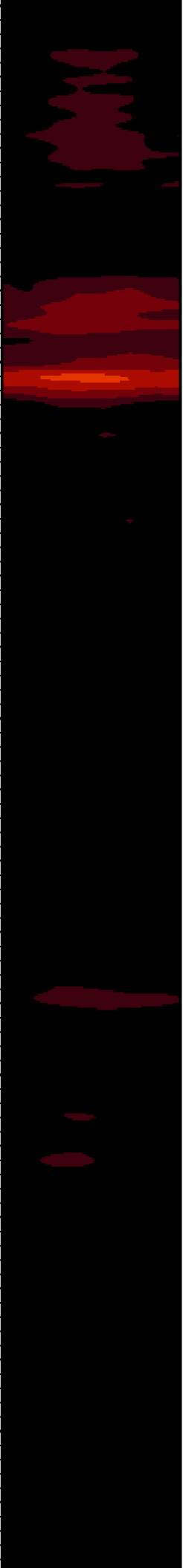




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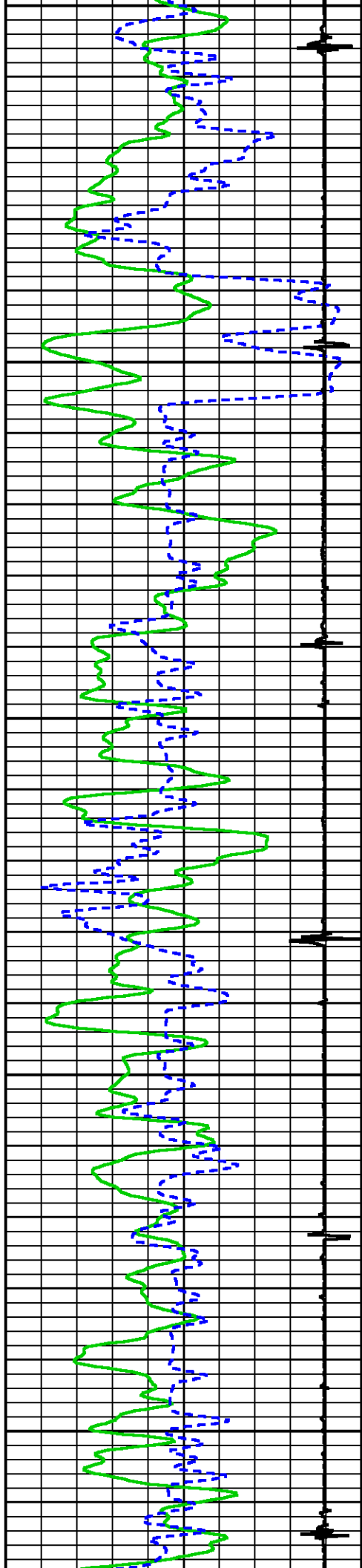
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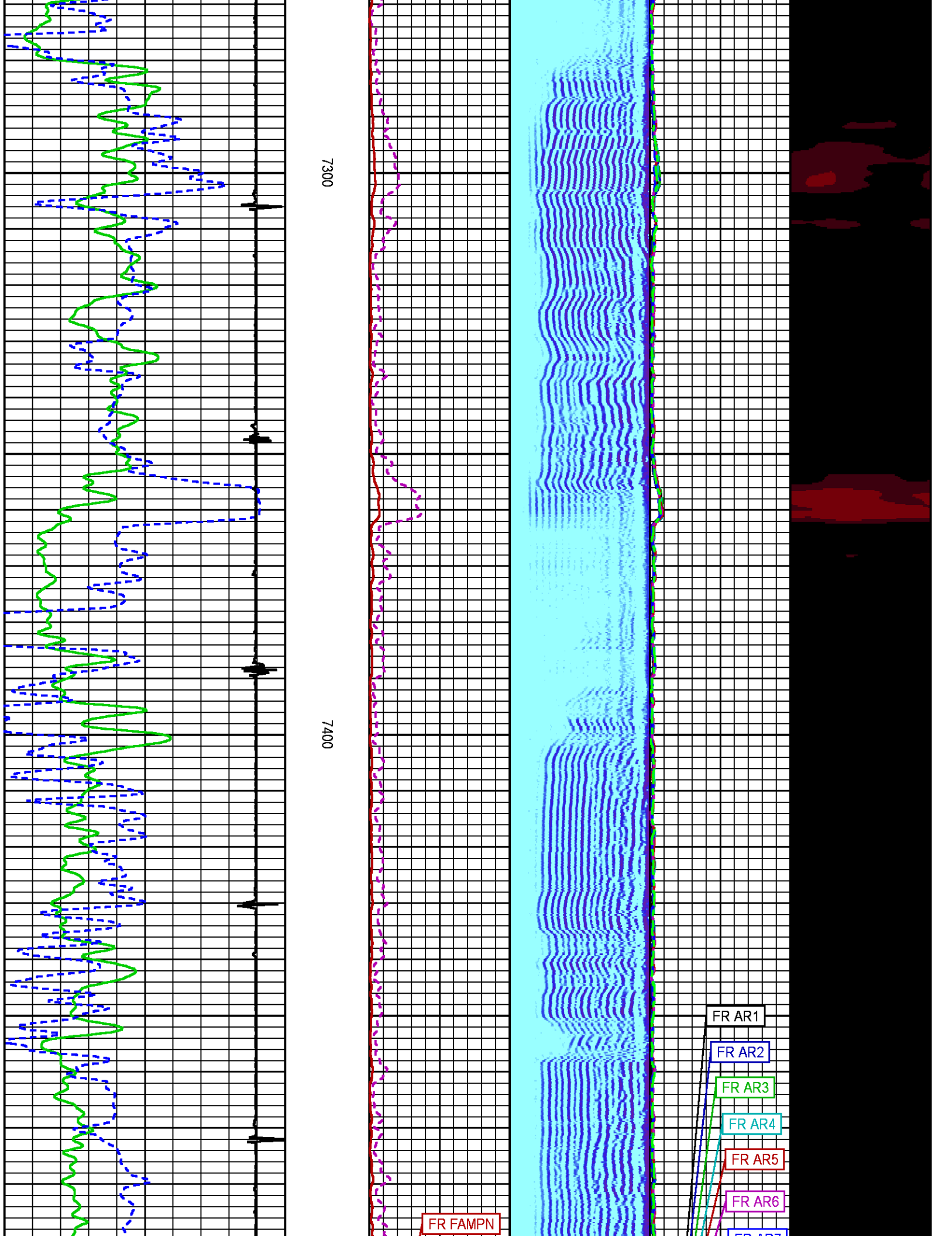


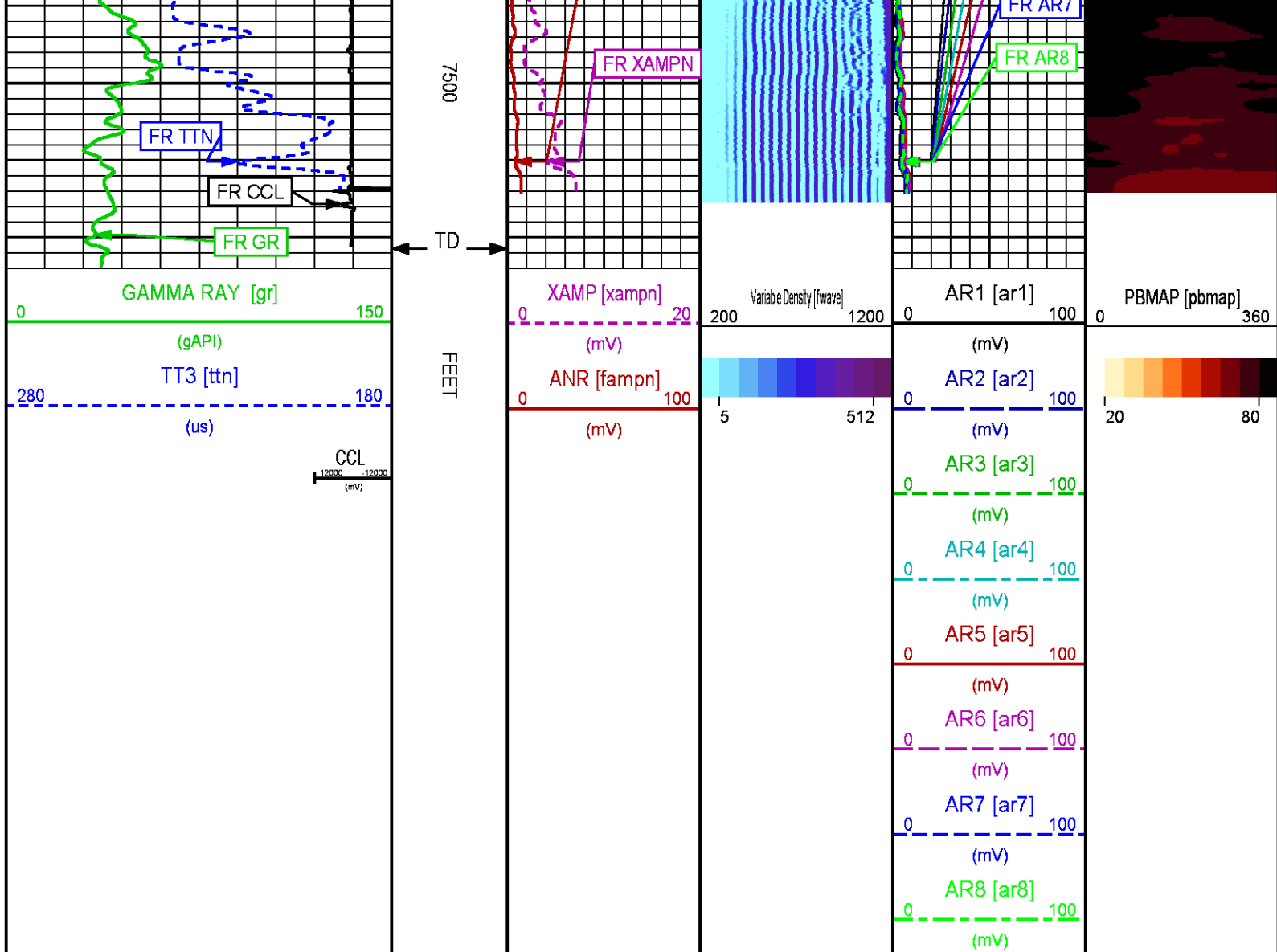


7100

7200







REPEAT PASS 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013

Updates: 1 Patches: 9

Plotted: Tue Jul 4 17:05:04 2017

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/LARAMIE_BRUTON_30_02E/n012g01.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 7139.250 ft BOTTOM DEPTH: 7555.500 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)
GR	FILTER ()	medium (1)		TOP BOTTOM
AMPLITUDE	FILTER ()	medium (1)		" "
TRAVEL TIME	FILTER ()	medium (1)		" "

RAL CCL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CCL FLOOR	CCL FLOOR	0		TOP	BOTTOM
ANALOG RAL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgp1*)	179	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	179	us	"	"
	AMP WINDOW START (fgp3*)	179	us	"	"
	AMP WINDOW START (fgp4*)	179	us	"	"
	AMP WINDOW START (fgp5*)	179	us	"	"
	AMP WINDOW START (fgp6*)	179	us	"	"
	AMP WINDOW START (fgp7*)	179	us	"	"
	AMP WINDOW START (fgp8*)	179	us	"	"
	AMP WINDOW START (fgpn*)	179	us	"	"
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	160	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (str1*)	-75	us	"	"
	TOOL DELAY (str2*)	-75	us	"	"
	TOOL DELAY (str3*)	-75	us	"	"
	TOOL DELAY (str4*)	-75	us	"	"
	TOOL DELAY (str5*)	-75	us	"	"
	TOOL DELAY (str6*)	-75	us	"	"
	TOOL DELAY (str7*)	-75	us	"	"
	TOOL DELAY (str8*)	-75	us	"	"
	TOOL DELAY (strn*)	-75	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

PERCENT BOND CEMENT MAP					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"
	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"
	FREE AMP REC 5	80	mV	"	"
	FREE AMP REC 6	80	mV	"	"
	FREE AMP REC 7	80	mV	"	"
	FREE AMP REC 8	80	mV	"	"
RAL FULL BOND AMPLITUDE	FULL BOND AMP REC 1	2	mV	"	"
	FULL BOND AMP REC 2	2	mV	"	"
	FULL BOND AMP REC 3	2	mV	"	"
	FULL BOND AMP REC 4	2	mV	"	"
	FULL BOND AMP REC 5	2	mV	"	"
	FULL BOND AMP REC 6	2	mV	"	"
	FULL BOND AMP REC 7	2	mV	"	"
	FULL BOND AMP REC 8	2	mV	"	"

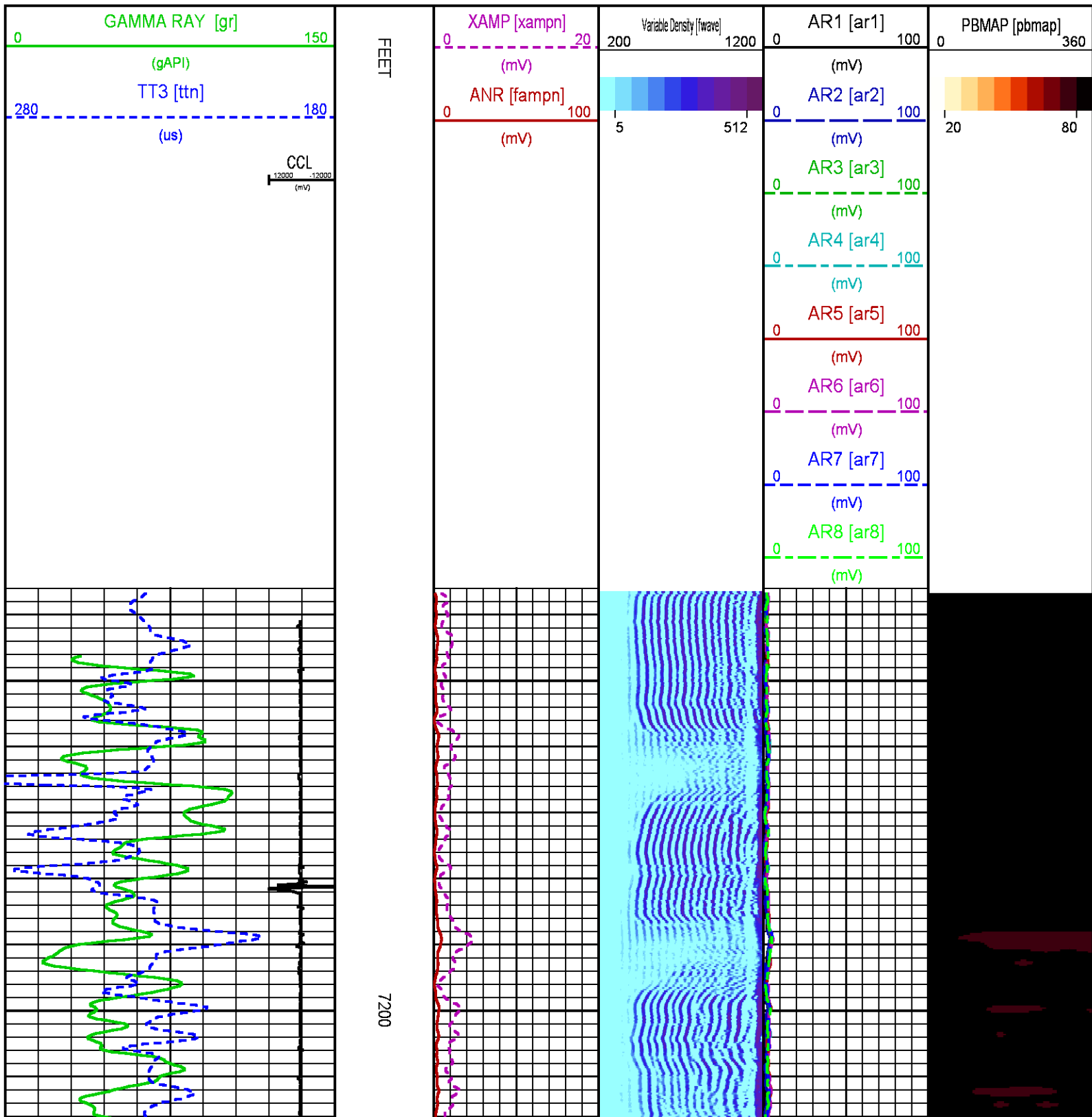
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Jul 4 15:41:47 2017	FIXED GATE AMPLITUDE T-R1
F1:AR2	Jul 4 15:41:47 2017	FIXED GATE AMPLITUDE T-R2
F1:AR3	Jul 4 15:41:47 2017	FIXED GATE AMPLITUDE T-R3
F1:AR4	Jul 4 15:41:47 2017	FIXED GATE AMPLITUDE T-R4
F1:AR5	Jul 4 15:41:47 2017	FIXED GATE AMPLITUDE T-R5
F1:AR6	Jul 4 15:41:47 2017	FIXED GATE AMPLITUDE T-R6
F1:AR7	Jul 4 15:41:47 2017	FIXED GATE AMPLITUDE T-R7
F1:AR8	Jul 4 15:41:47 2017	FIXED GATE AMPLITUDE T-R8
F1:CCL	Jul 4 15:41:47 2017	CASING COLLAR LOCATOR
F1:FAMPN	Jul 4 15:41:47 2017	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jul 4 15:41:47 2017	FAR WAVE FORM
F1:GR	Jul 4 15:41:47 2017	GAMMA RAY
F1:PBMAP	Jul 4 15:41:47 2017	PERCENT BOND CEMENT MAP
F1:TTN	Jul 4 15:41:47 2017	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jul 4 15:41:47 2017	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

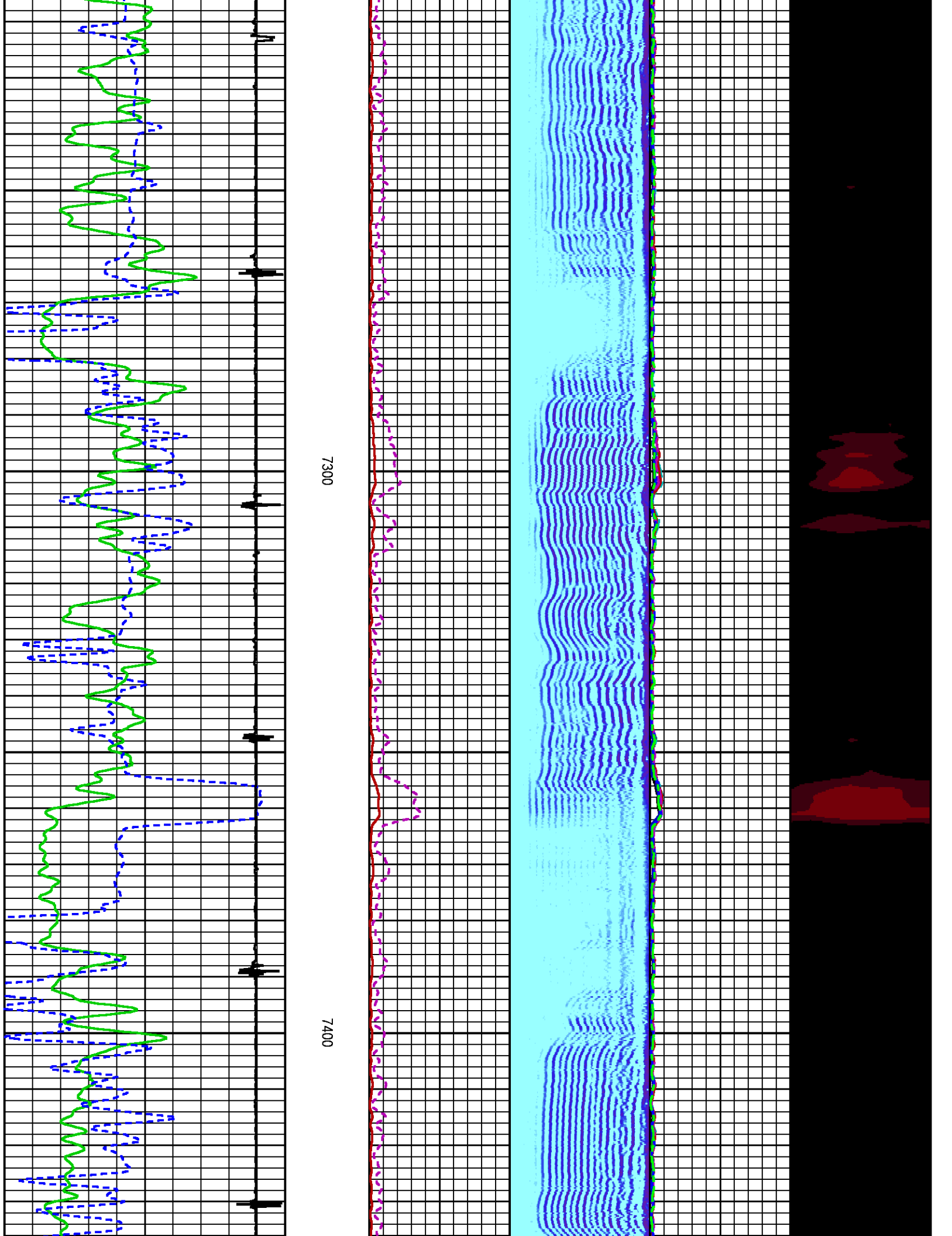
CURVE MEASURE POINT OFFSET		
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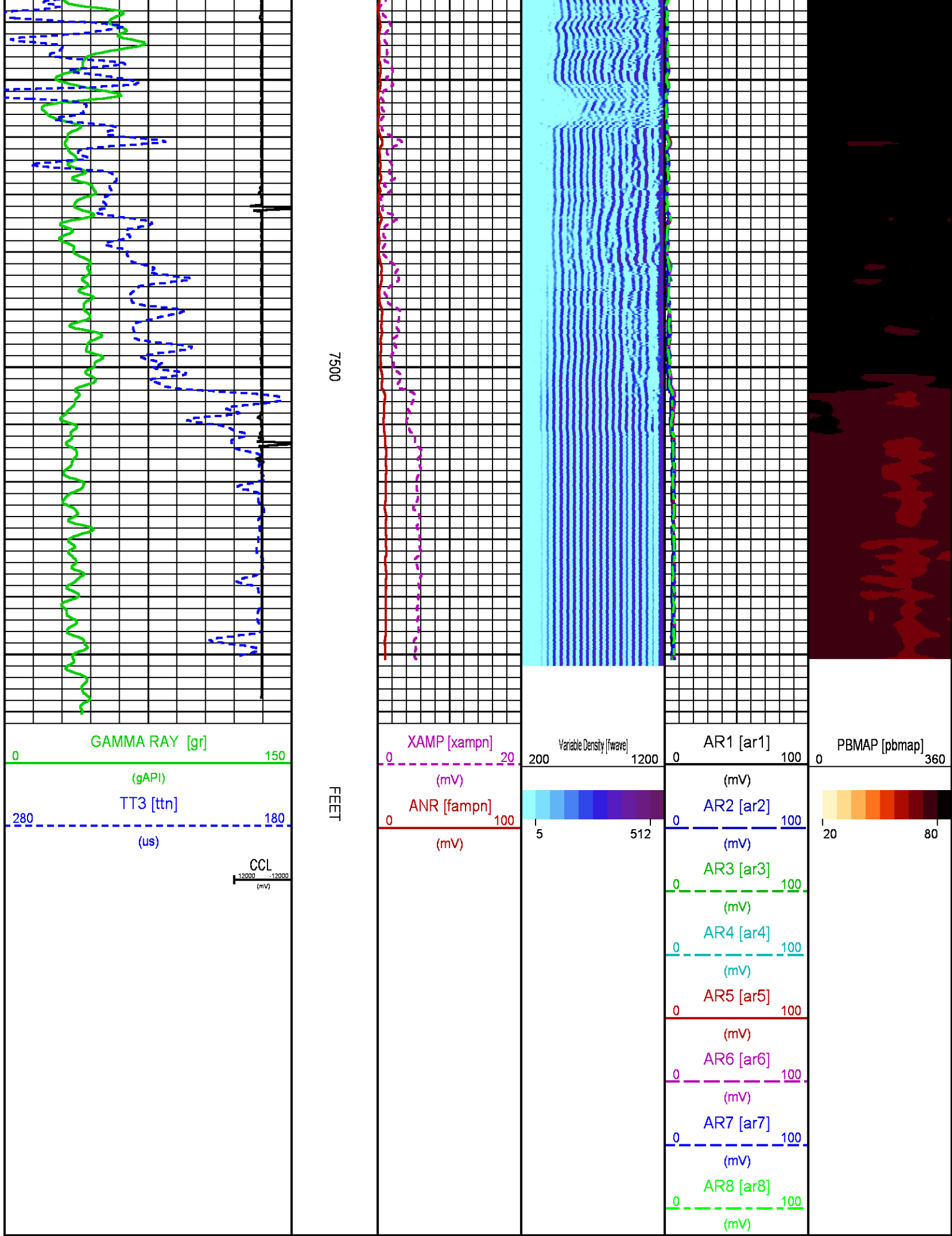
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	11.25	AR5	11.25	CCL	5.75	XAMPN	11.25
AR2	11.25	AR6	11.25	FAMPN	11.25		
AR3	11.25	AR7	11.25	GR	1.75		
AR4	11.25	AR8	11.25	TTN	11.25		

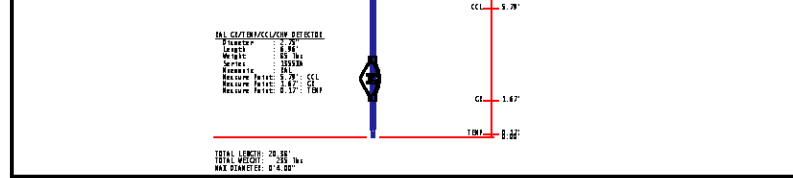
Presentation : cpu100:ral_all+01-REPEAT-30_02E_RAL_RPT-5.fvpdf [5"/100' Scale]
Plot Interval : 7129 - 7554.5 Feet


Data File 1 : F1 : cpu100:/dat1a/LARAMIE_BRUTON_30_02E/30_02E_RAL_RPT.xtf
Created On : Jul 4 15:41:47 2017
Company : LARAMIE ENERGY
Well : BRUTON 30-02E
Field : VEGA
File Interval : 7128 - 7555.75 Feet
OCT : n012g









	COMPANY	<u>LARAMIE ENERGY</u>		FILE NO:	
	WELL	<u>BRUTON 30-02E</u>			
	FIELD	<u>VEGA</u>		API NO:	
	COUNTY	<u>MESA</u>	STATE	<u>COLORADO</u>	<u>05077103700000</u>
LOCATION:			ELEVATIONS:		
SHL: LAT:39.255232N, LONG:107.806537W			KB 7449 FT		
BHL: LAT:39.254394N, LONG:107.806907W			DF 7448 FT		
SEC <u>30</u> TWP <u>9S</u> RGE <u>93W</u>			GL 7425 FT		
			DATE		<u>04-JUL-2017</u>