



FILE NO:

COMPANY

LARAMIE ENERGY

WELL

BRUTON 19-17E

FIELD

VEGA

API NO:
05077103670000

COUNTY

MESA

STATE COLORADO

Ver. 4.06

LOCATION:

SHL: LAT:39.255232N; LONG:107.806537W

OTHER SERVICES
RPMBHL: LAT:39.258531N; LONG:107.807036W
SEC 19 TWP 9S RGE 93WPERMANENT DATUM GL ELEVATION 7425 FT
LOG MEASURED FROM KB 24 FT ABOVE P.D.
DRILL. MEAS. FROM KBELEVATIONS:
KB 7449 FT
DF 7448 FT
GL 7425 FT

DATE 18-AUG-2017

RUN TRIP

1 1

SERVICE ORDER US126723

DEPTH DRILLER 7799 FT

DEPTH LOGGER 7717 FT

BOTTOM LOGGED INTERVAL 7717 FT

TOP LOGGED INTERVAL 24 FT

TIME STARTED 18:00

TIME FINISHED 21:00

OPERATOR RIG TIME 3 HOURS

TYPE OF FLUID IN HOLE WATER

FLUID DENSITY NA

FLUID SALINITY NA

FLUID LEVEL 60 FT

LOGGED CEMENT TOP 2060 FT

WELLHEAD PRESSURE 0 PSI

MAXIMUM HOLE DEVIATION NA

NOMINAL LOGGING SPEED 100 F/MN

MAX. RECORDED TEMP. 239 DEGF

REFERENCE LOG NA

REFERENCE LOG DATE NA

EQUIP. NO. LOCATION HL-6670 WOODWARD

RECORDED BY S.YASSA

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 OPERATIONS IN WELL*

OPERATION 1: RAL/GR/CCL RUN CENTRALIZED

LOGGED WITH 0 PSI ON WELLHEAD

SJ: 5961' - 5981'

SJ: 6909' - 6928'

CREW: D.HUTCHINSON, J.PENA

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	RAL	1426XA	12670180	CENTRALIZED
1	1	GAMMA RAY	1355XA	10218496	CENTRALIZED

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: Sat Aug 19 08:47:25 2017

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/LARAMIE_BRUTON_19_17E/n012g02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 2.000 ft BOTTOM DEPTH: 7719.750 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*)	187	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	187	us	"	"
	AMP WINDOW START (fgp3*)	187	us	"	"
	AMP WINDOW START (fgp4*)	187	us	"	"
	AMP WINDOW START (fgp5*)	187	us	"	"
	AMP WINDOW START (fgp6*)	187	us	"	"
	AMP WINDOW START (fgp7*)	187	us	"	"
	AMP WINDOW START (fgp8*)	187	us	"	"
	AMP WINDOW START (fgpn*)	187	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*)	-63	us	TOP	1684.500
		-62	us	1684.500	1750.750
		-61	us	1750.750	1752.000
		-60	us	1752.000	1773.750
		-59	us	1773.750	BOTTOM
	TOOL DELAY (str2*)	-63	us	TOP	1684.500
		-62	us	1684.500	1750.750
		-61	us	1750.750	1752.000
		-60	us	1752.000	1773.750
		-59	us	1773.750	BOTTOM
	TOOL DELAY (str3*)	-63	us	TOP	1684.500
		-62	us	1684.500	1750.750
		-61	us	1750.750	1752.000
		-60	us	1752.000	1773.750
		-59	us	1773.750	BOTTOM
	TOOL DELAY (str4*)	-63	us	TOP	1684.500
		-62	us	1684.500	1750.750
		-61	us	1750.750	1752.000
		-60	us	1752.000	1773.750
		-59	us	1773.750	BOTTOM
	TOOL DELAY (str5*)	-63	us	TOP	1684.500
		-62	us	1684.500	1750.750
		-61	us	1750.750	1752.000
		-60	us	1752.000	1773.750
		-59	us	1773.750	BOTTOM
	TOOL DELAY (str6*)	-63	us	TOP	1684.500
		-62	us	1684.500	1750.750
		-61	us	1750.750	1752.000
		-60	us	1752.000	1773.750
		-59	us	1773.750	BOTTOM
	TOOL DELAY (str7*)	-63	us	TOP	1684.500

	TOOL DELAY (str8*)	-62	us	1684.500	1750.750
		-61	us	1750.750	1752.000
		-60	us	1752.000	1773.750
		-59	us	1773.750	BOTTOM
		-63	us	TOP	1684.500
		-62	us	1684.500	1750.750
		-61	us	1750.750	1752.000
		-60	us	1752.000	1773.750
		-59	us	1773.750	BOTTOM
		-63	us	TOP	1684.500
	TOOL DELAY (strn*)	-62	us	1684.500	1750.750
		-61	us	1750.750	1752.000
		-60	us	1752.000	1773.750
		-59	us	1773.750	BOTTOM
		-63	us	TOP	1684.500
		-62	us	1684.500	1750.750
		-61	us	1750.750	1752.000
		-60	us	1752.000	1773.750
		-59	us	1773.750	BOTTOM
		-63	us	TOP	1684.500
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	TOP	BOTTOM
	NOISE WINDOW LENGTH	25	us	"	"

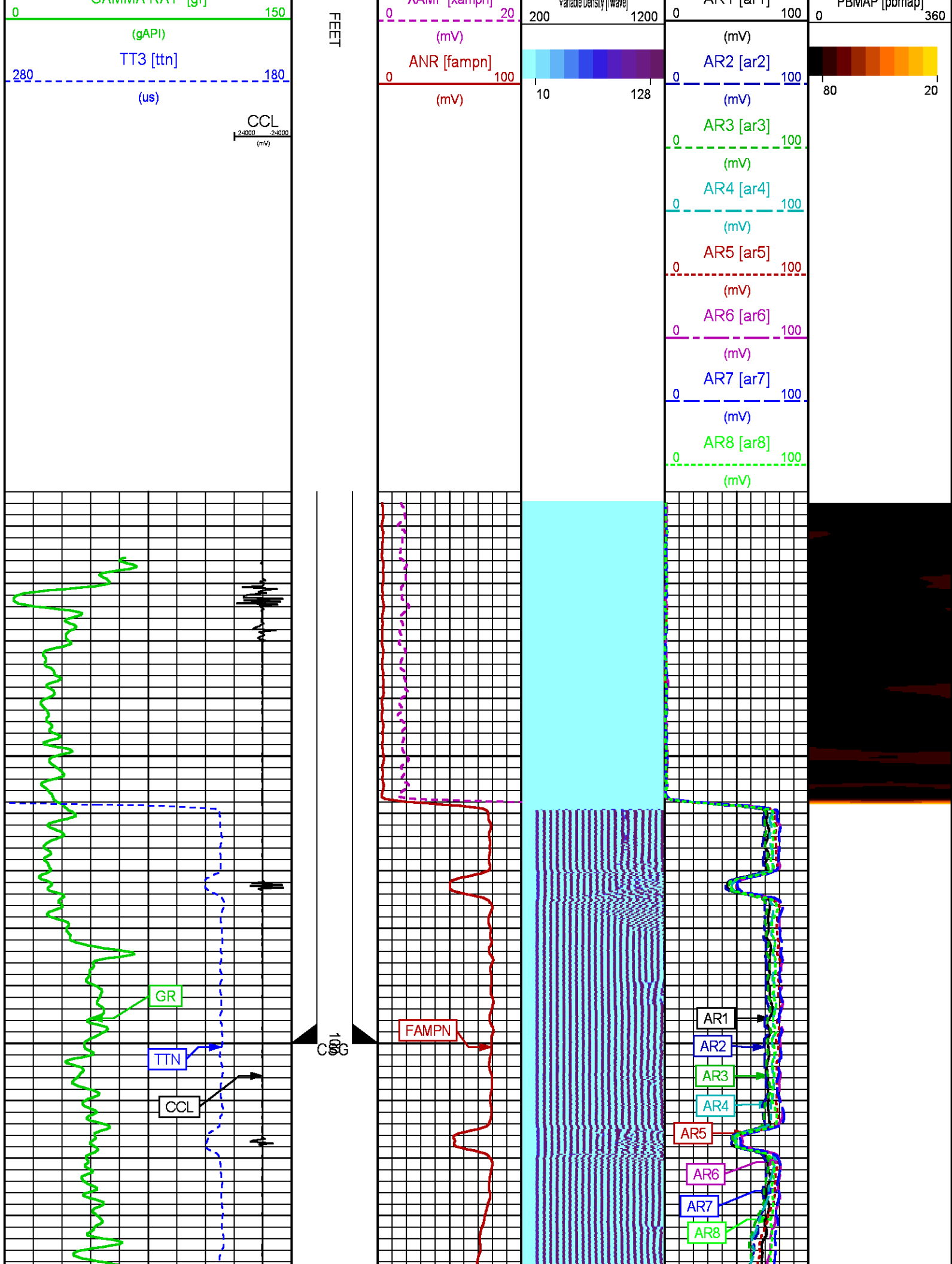
PERCENT BOND CEMENT MAP					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"
	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"
	FREE AMP REC 5	80	mV	"	"
	FREE AMP REC 6	80	mV	"	"
	FREE AMP REC 7	80	mV	"	"
	FREE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

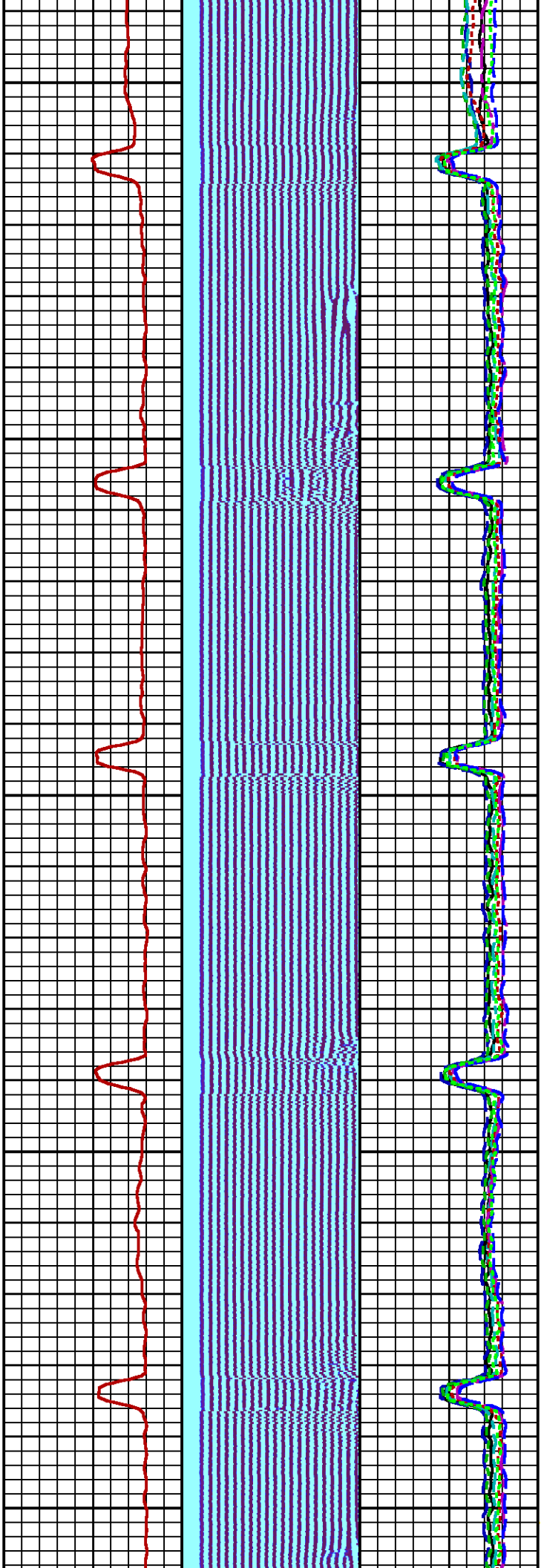
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Aug 18 18:34:25 2017	FIXED GATE AMPLITUDE T-R1
F1:AR2	Aug 18 18:34:25 2017	FIXED GATE AMPLITUDE T-R2
F1:AR3	Aug 18 18:34:25 2017	FIXED GATE AMPLITUDE T-R3
F1:AR4	Aug 18 18:34:25 2017	FIXED GATE AMPLITUDE T-R4
F1:AR5	Aug 18 18:34:25 2017	FIXED GATE AMPLITUDE T-R5
F1:AR6	Aug 18 18:34:25 2017	FIXED GATE AMPLITUDE T-R6
F1:AR7	Aug 18 18:34:25 2017	FIXED GATE AMPLITUDE T-R7
F1:AR8	Aug 18 18:34:25 2017	FIXED GATE AMPLITUDE T-R8
F1:CCL	Aug 18 18:34:25 2017	CASING COLLAR LOCATOR
F1:FAMPN	Aug 18 18:34:25 2017	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Aug 18 18:34:25 2017	FAR WAVE FORM
F1:GR	Aug 18 18:34:25 2017	GAMMA RAY
F1:PBMAP	Aug 18 18:34:25 2017	PERCENT BOND CEMENT MAP
F1:TTN	Aug 18 18:34:25 2017	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Aug 18 18:34:25 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:/dat1a/LARAMIE_BRUTON_19_17E/BRUTON_19_17E_RAL_MAIN.fvpdf [5"/100' Scale]
Plot Interval	: 5.75 - 7732.5 Feet
Data File 1	: F1 : cpu100:/dat1a/LARAMIE_BRUTON_19_17E/BURTON_19_17E_RAL_MAIN.xtf
Created On	: Aug 18 18:34:25 2017
Company	: LARAMIE ENERGY
Well	: BRUTON 19-17E
Field	: MESA
File Interval	: 4.75 - 7733.75 Feet
OCT	: n012g

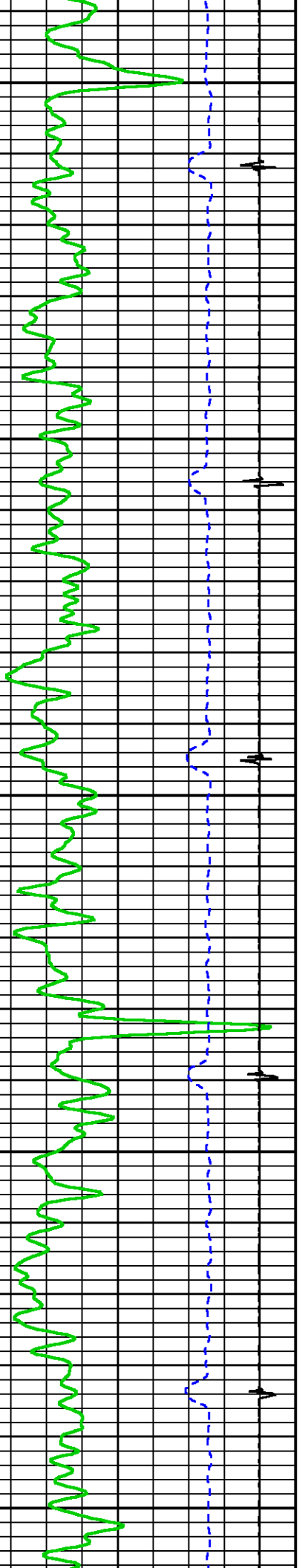
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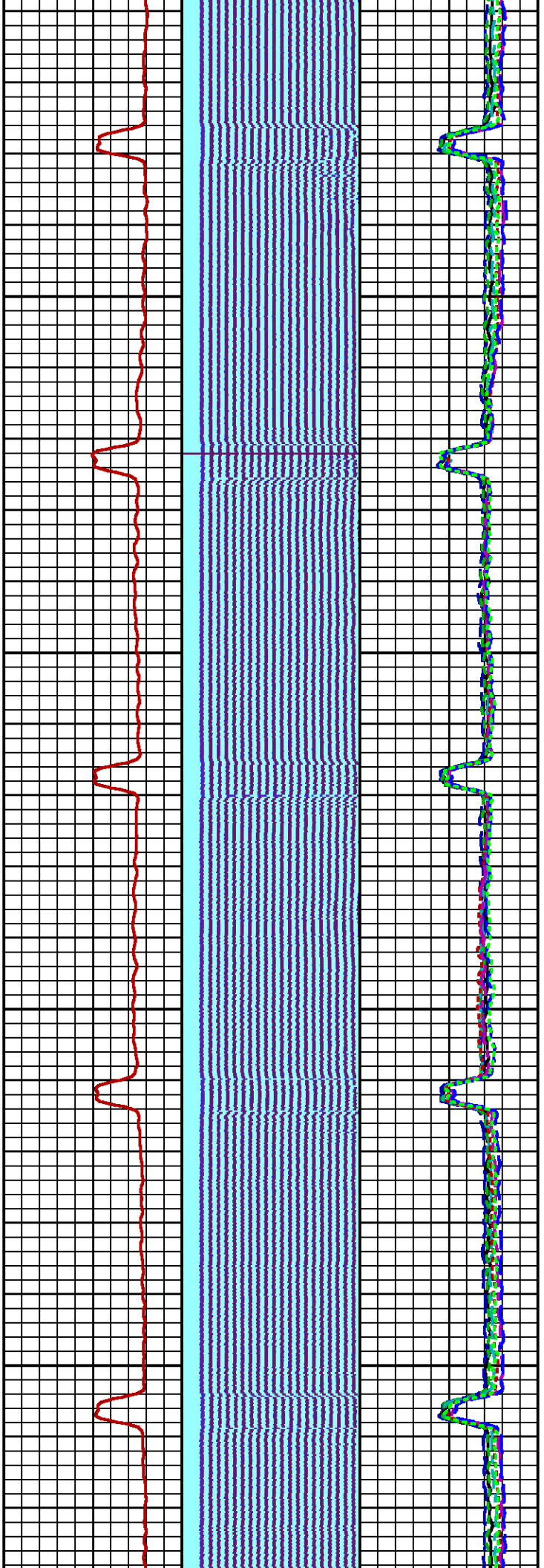




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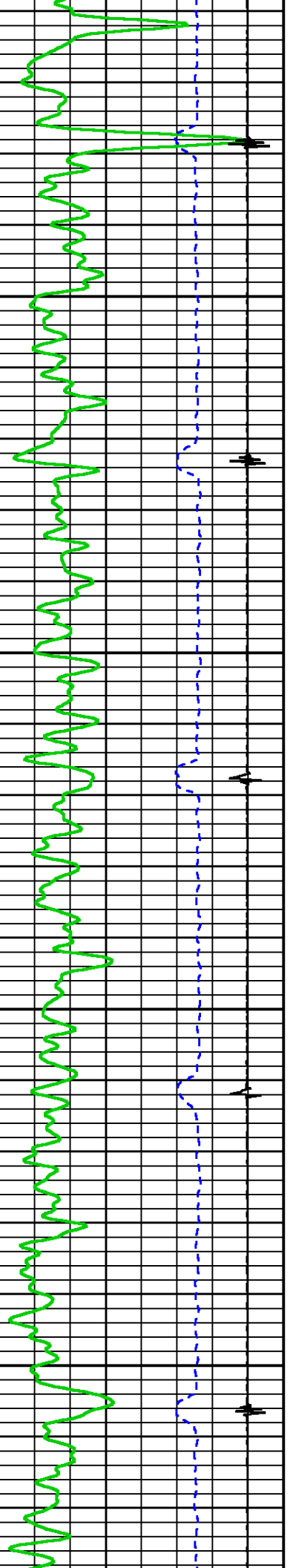
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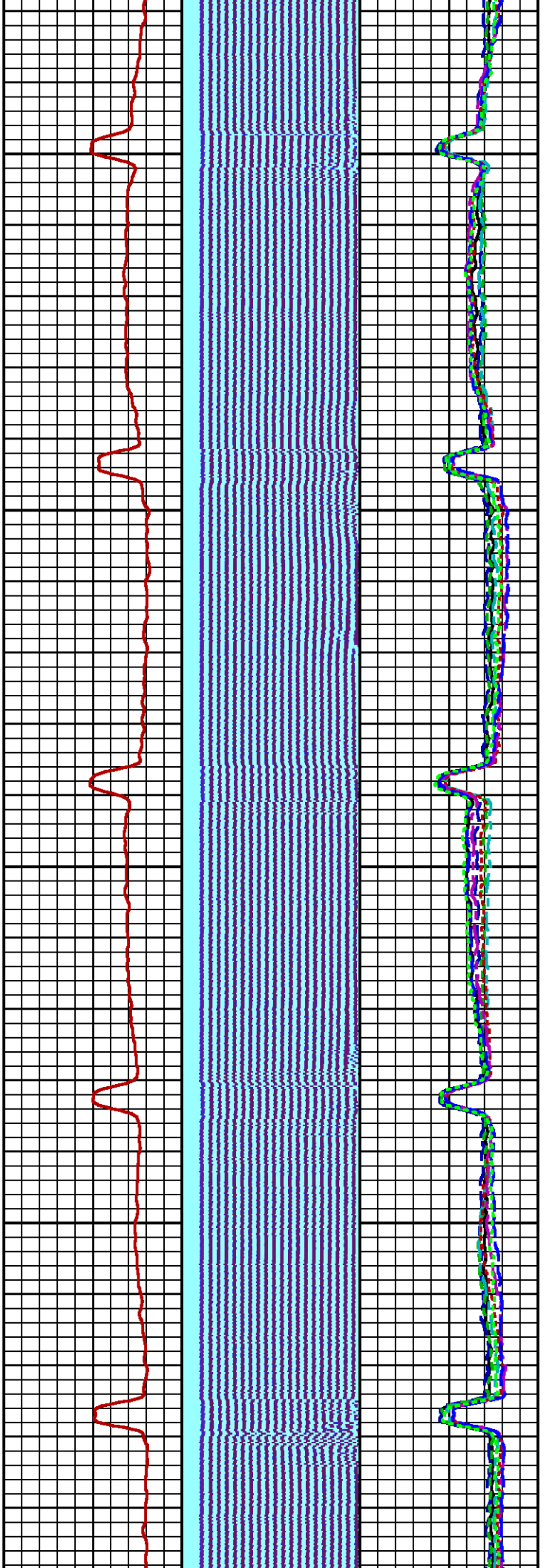




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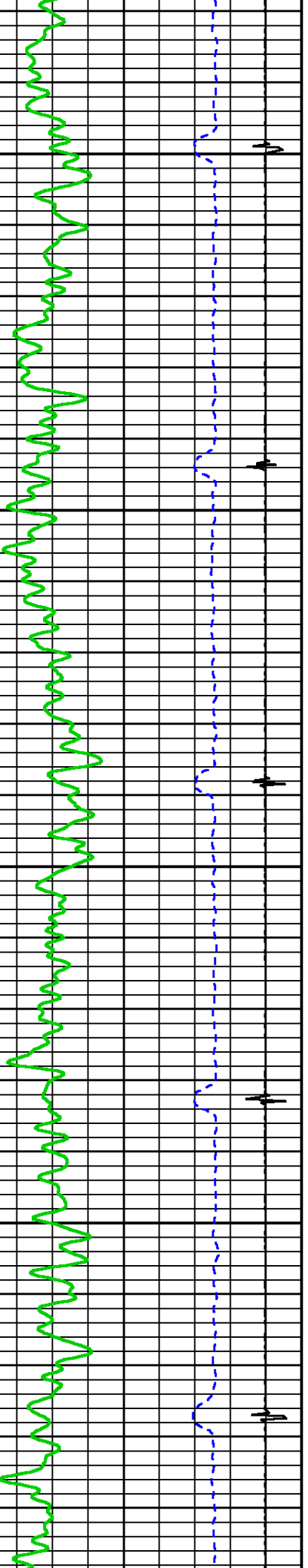
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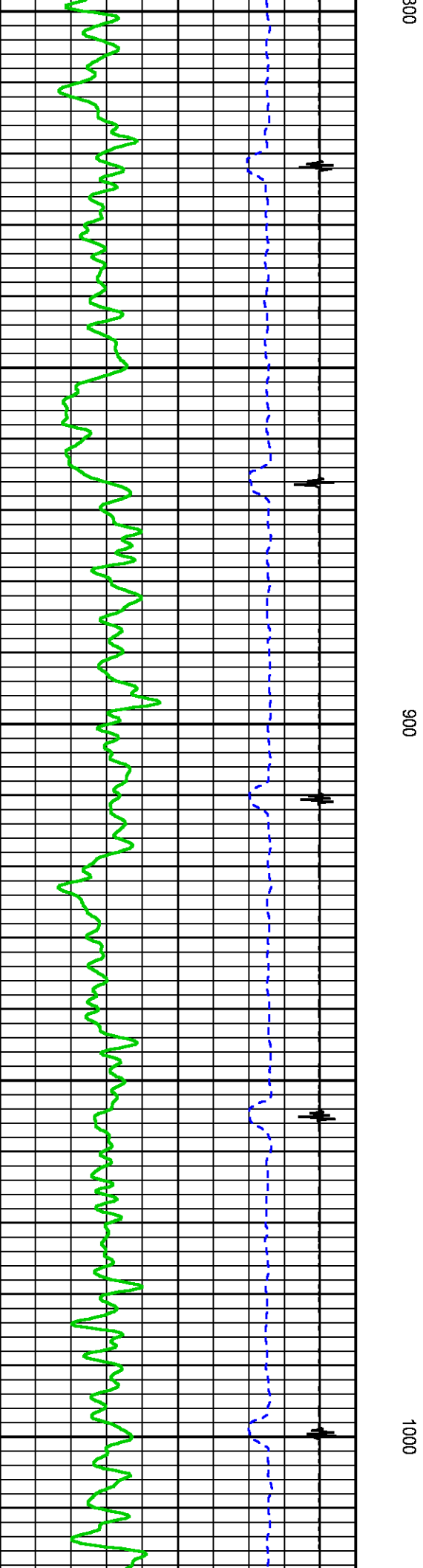
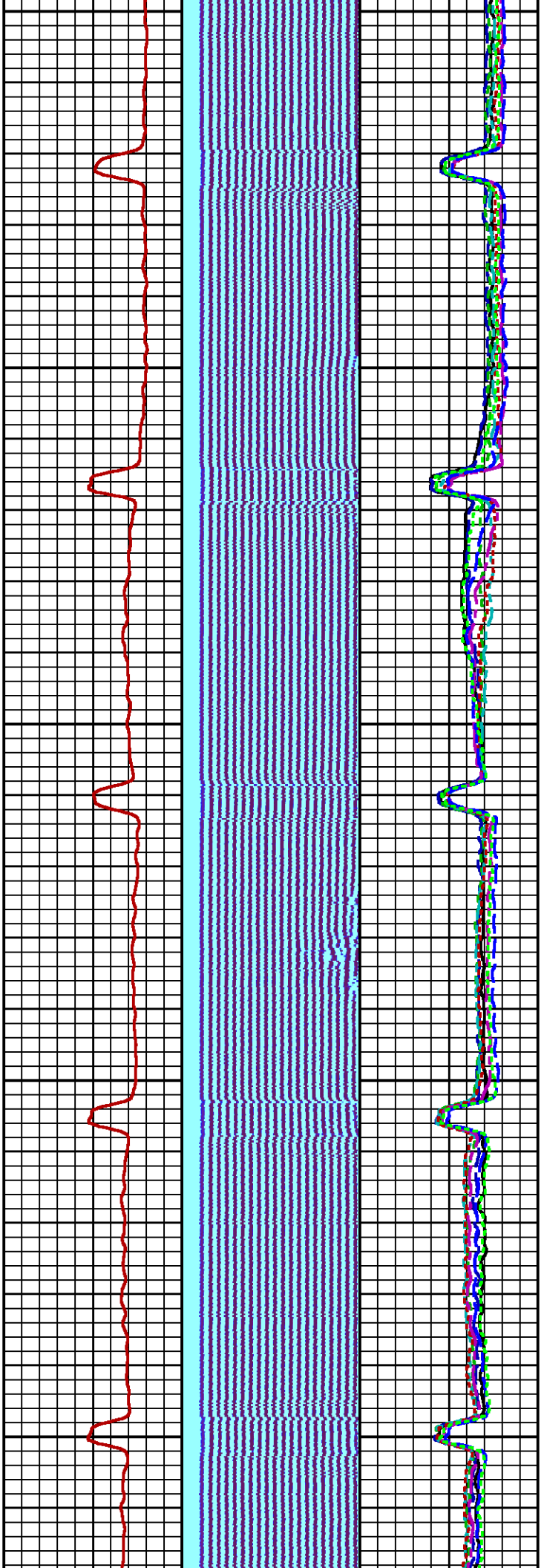


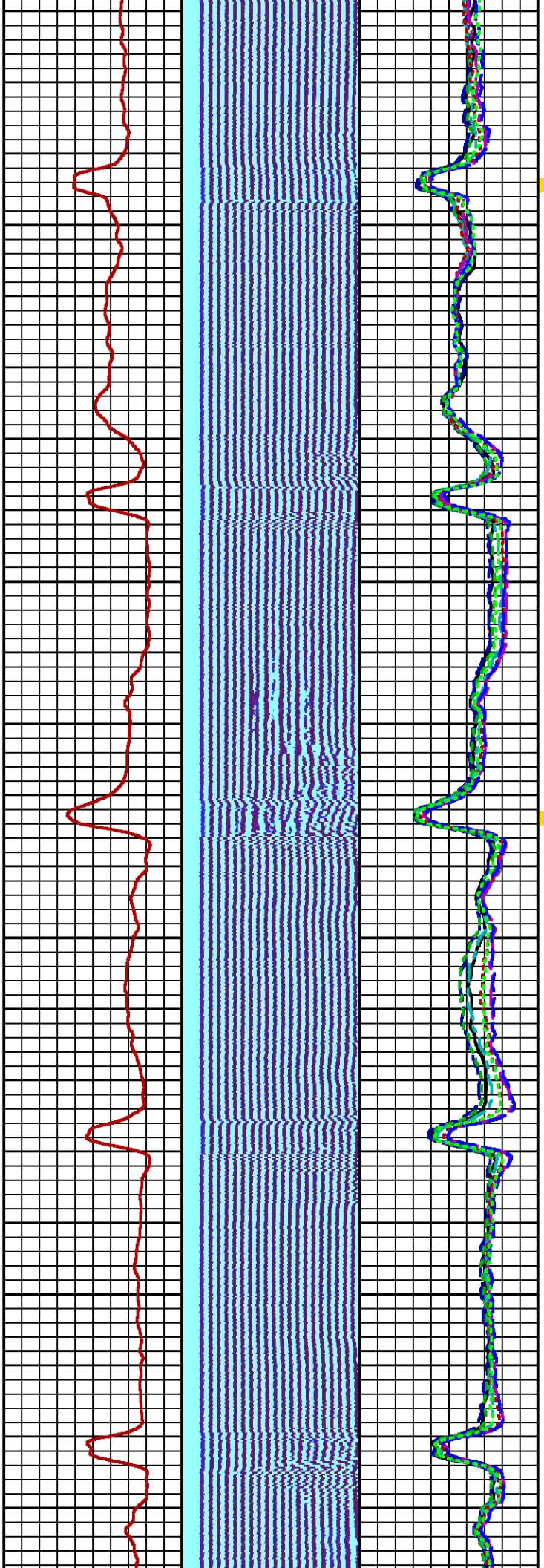


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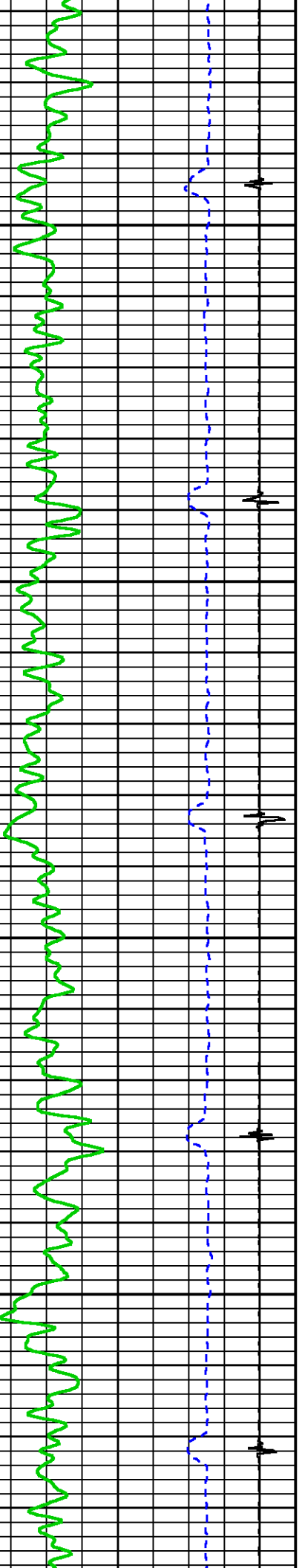


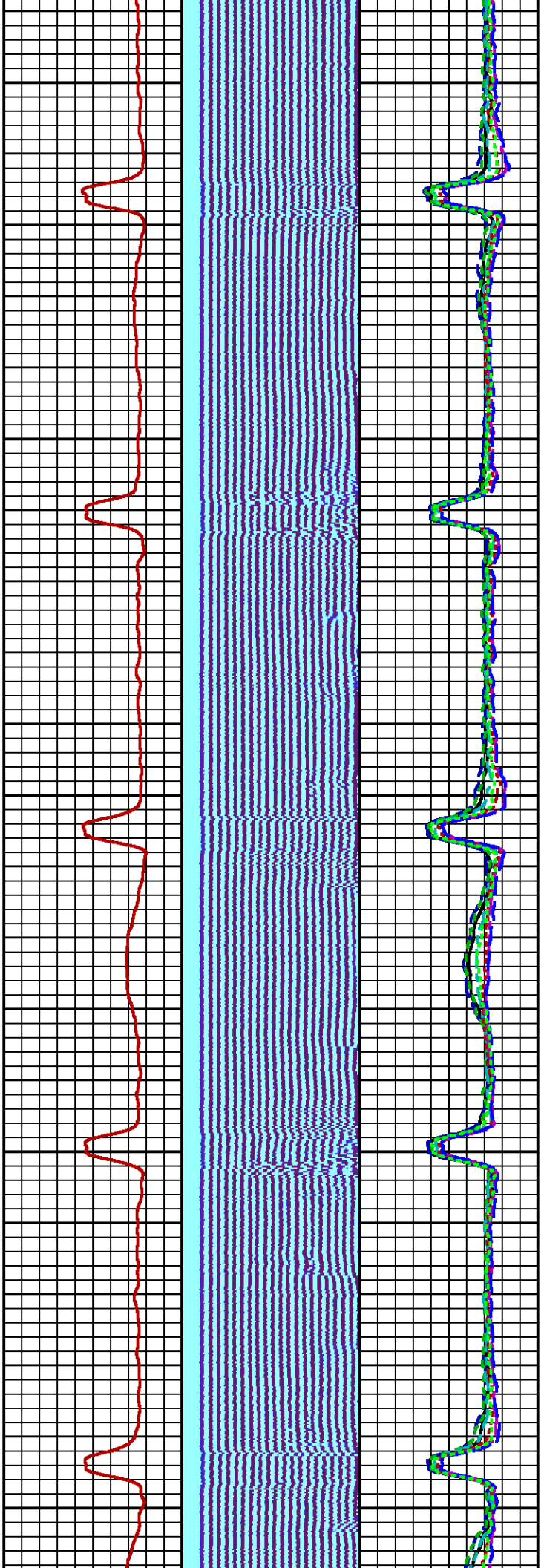




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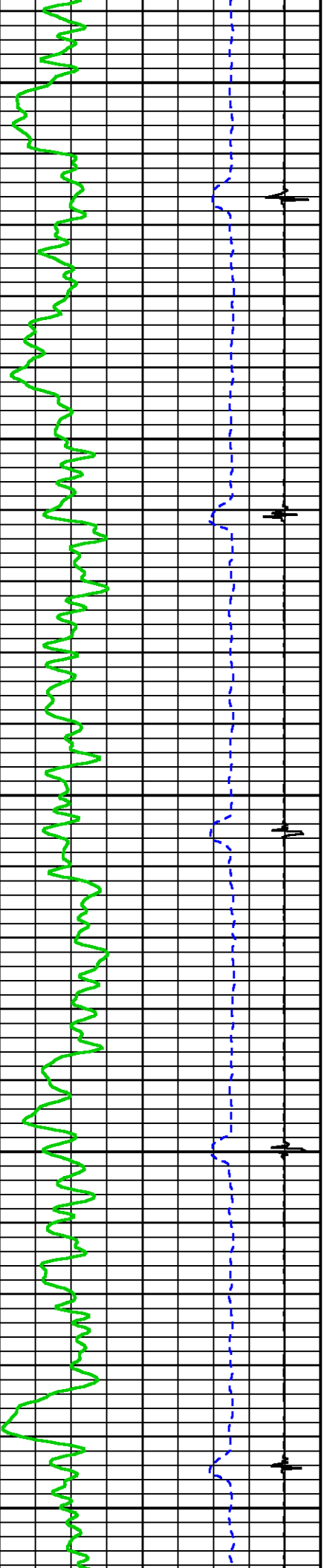
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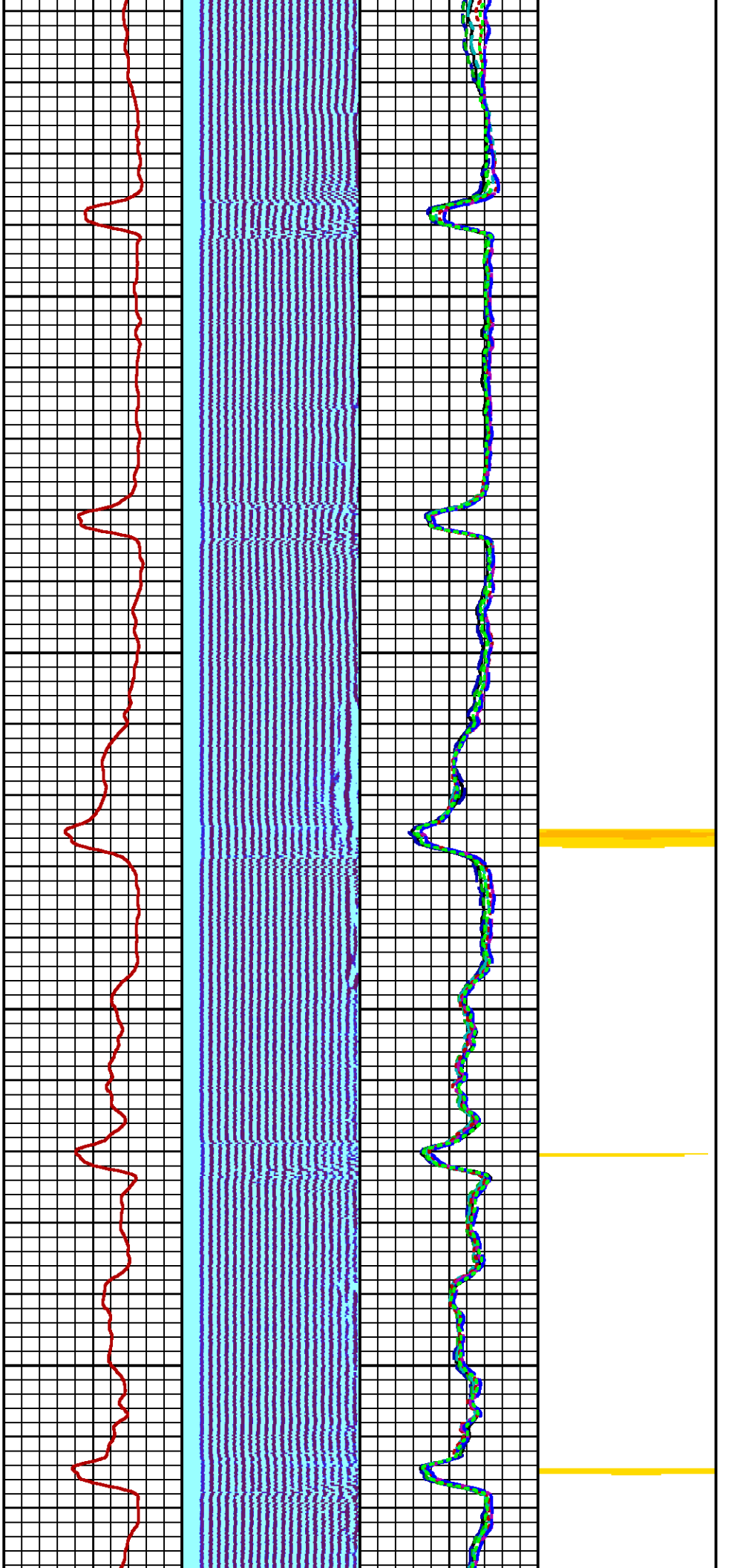




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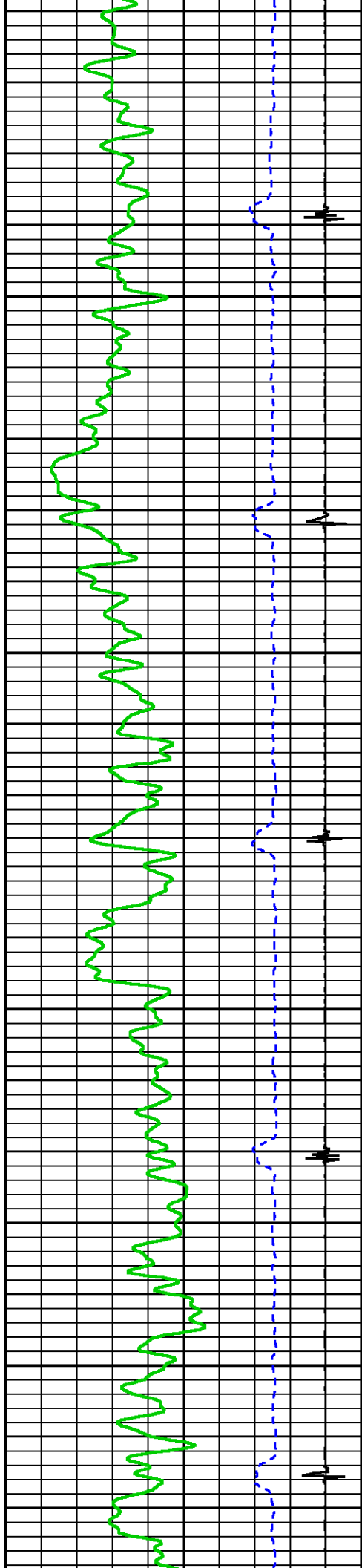
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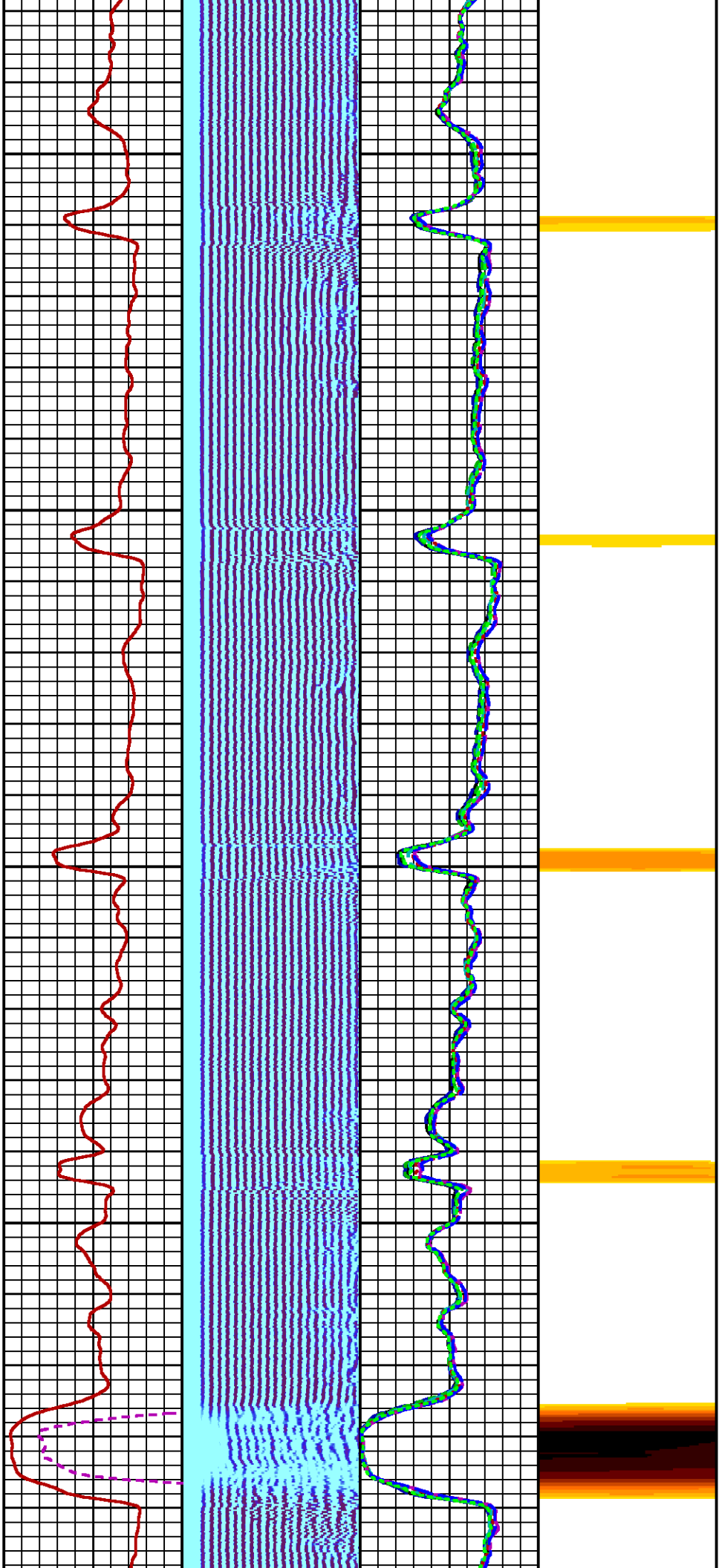




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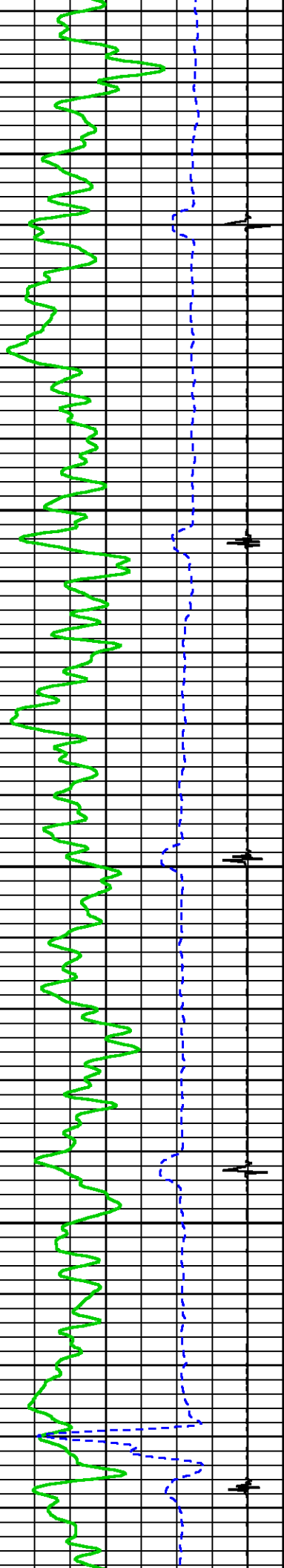


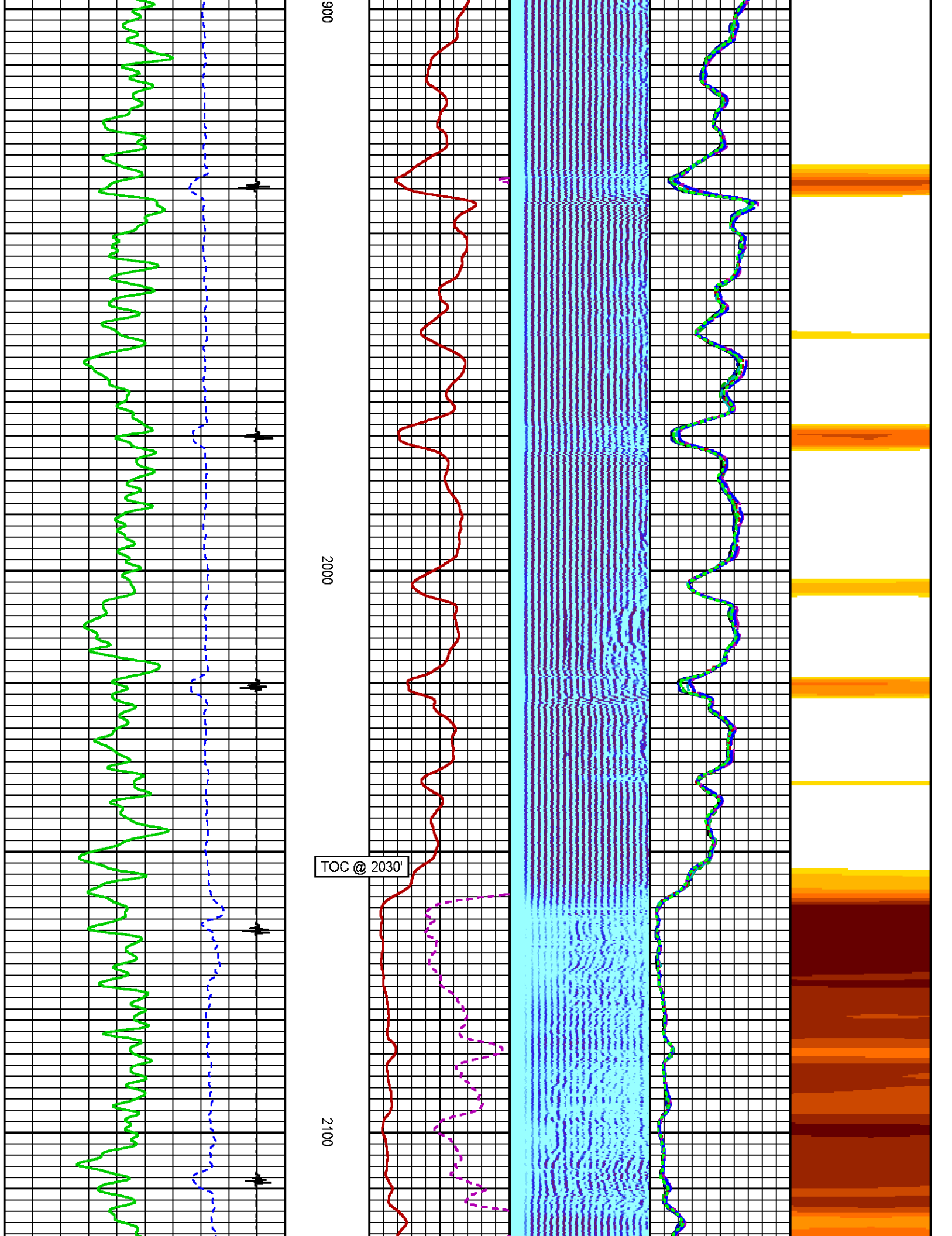


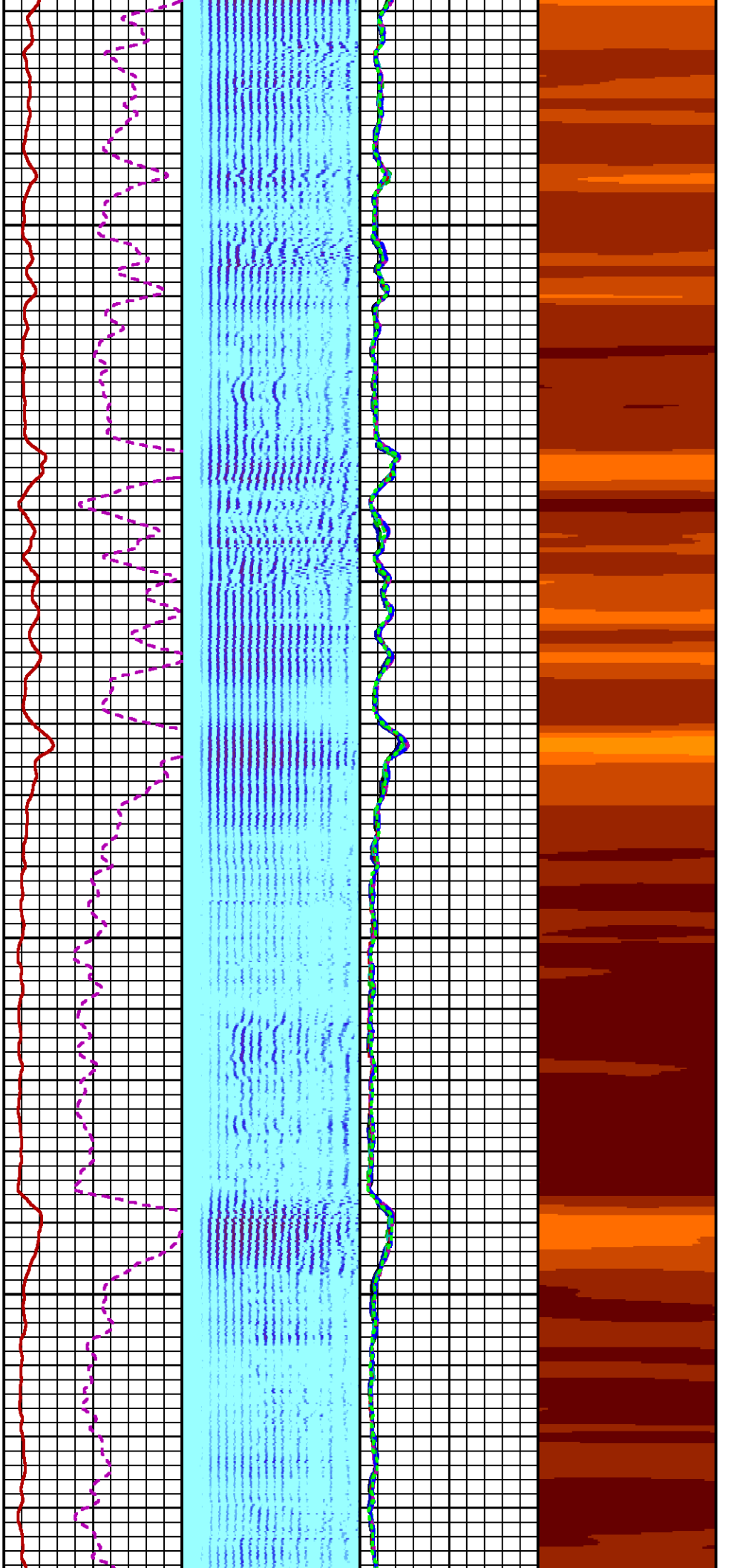
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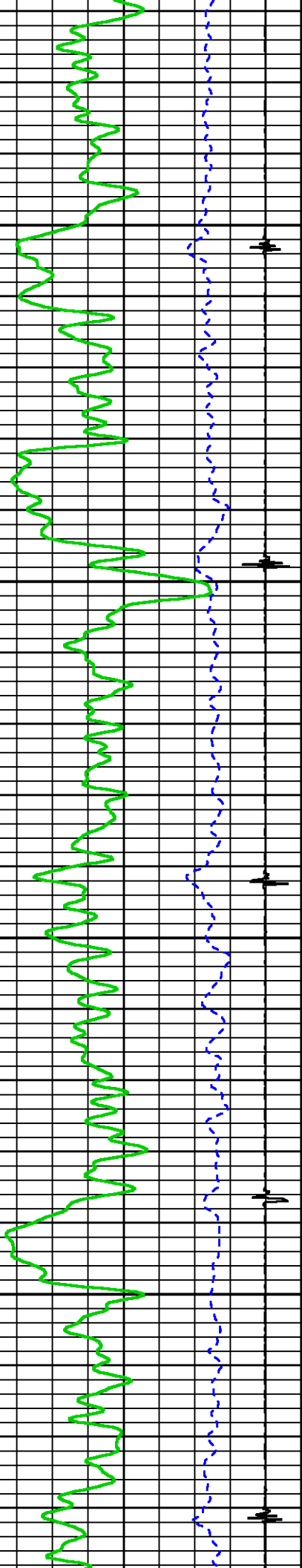


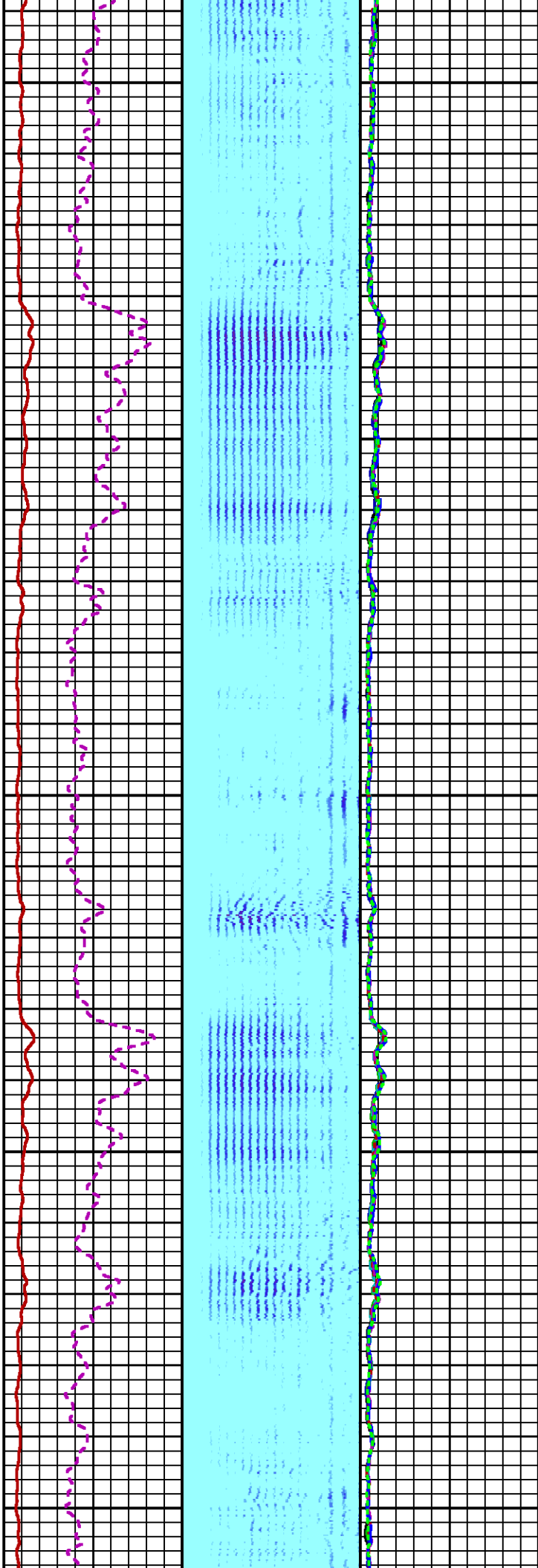




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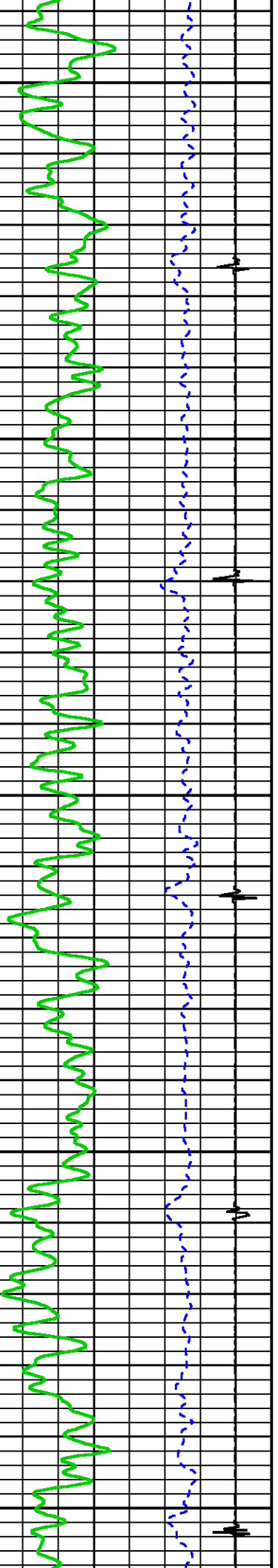
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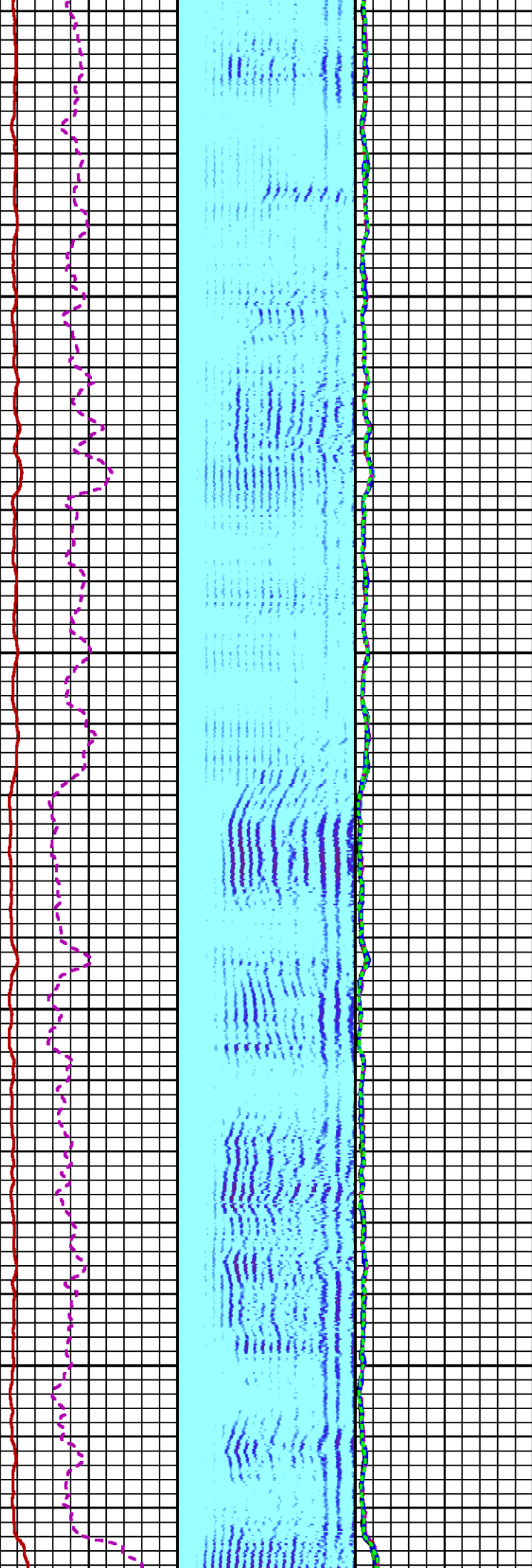




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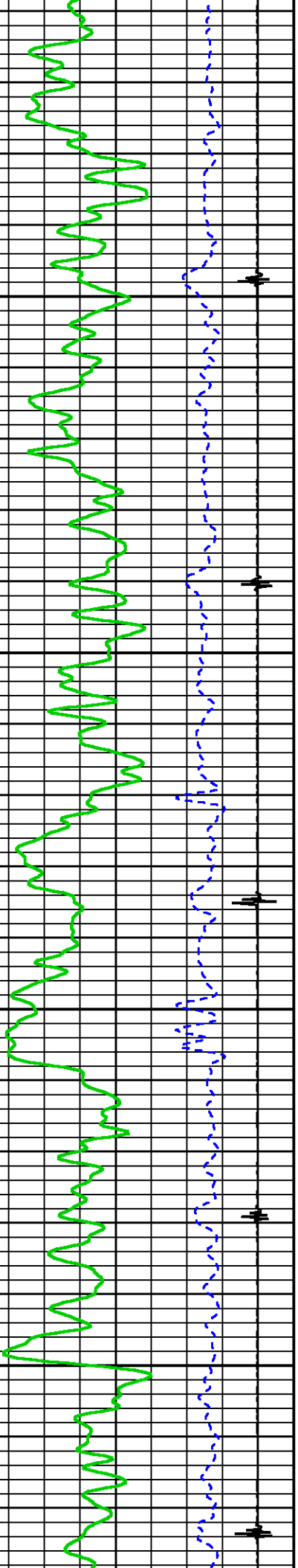
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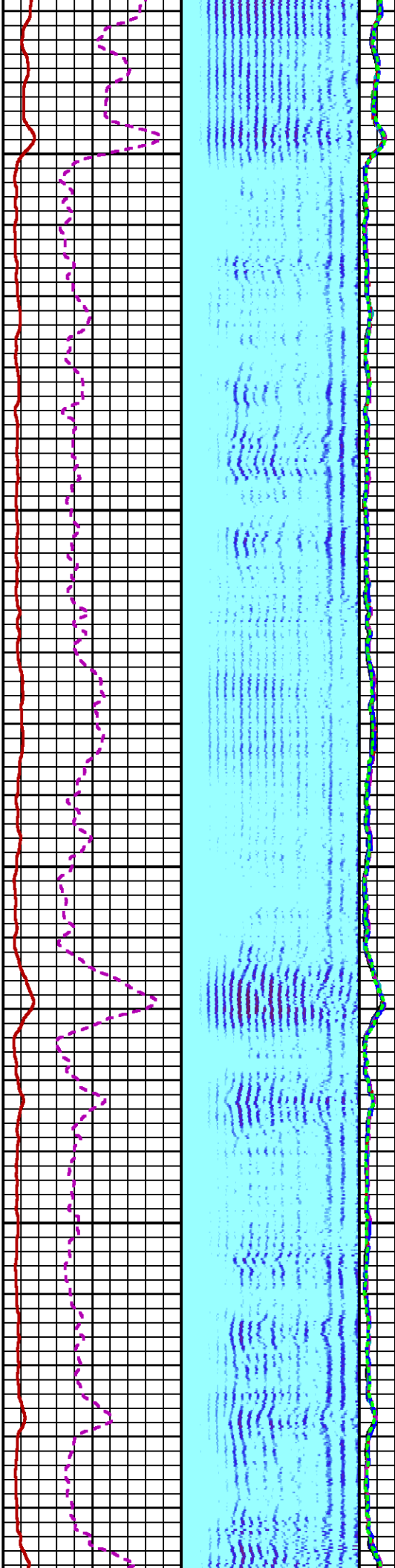




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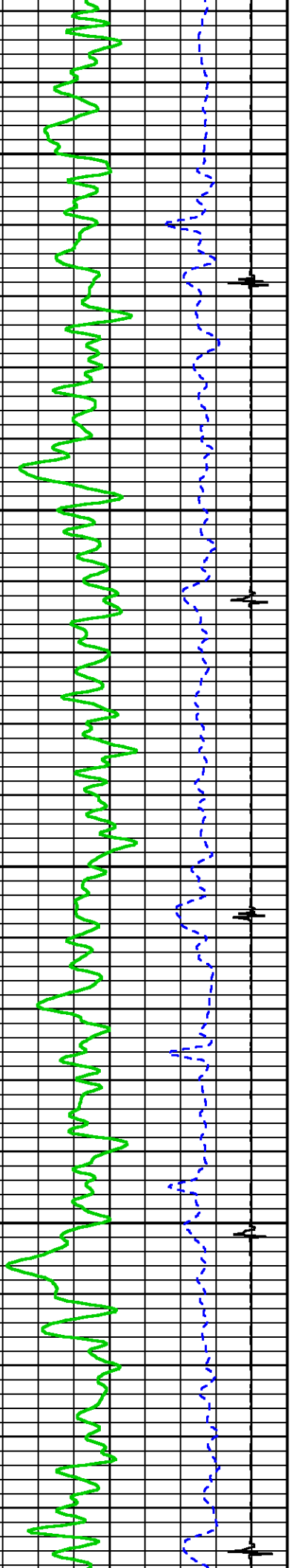


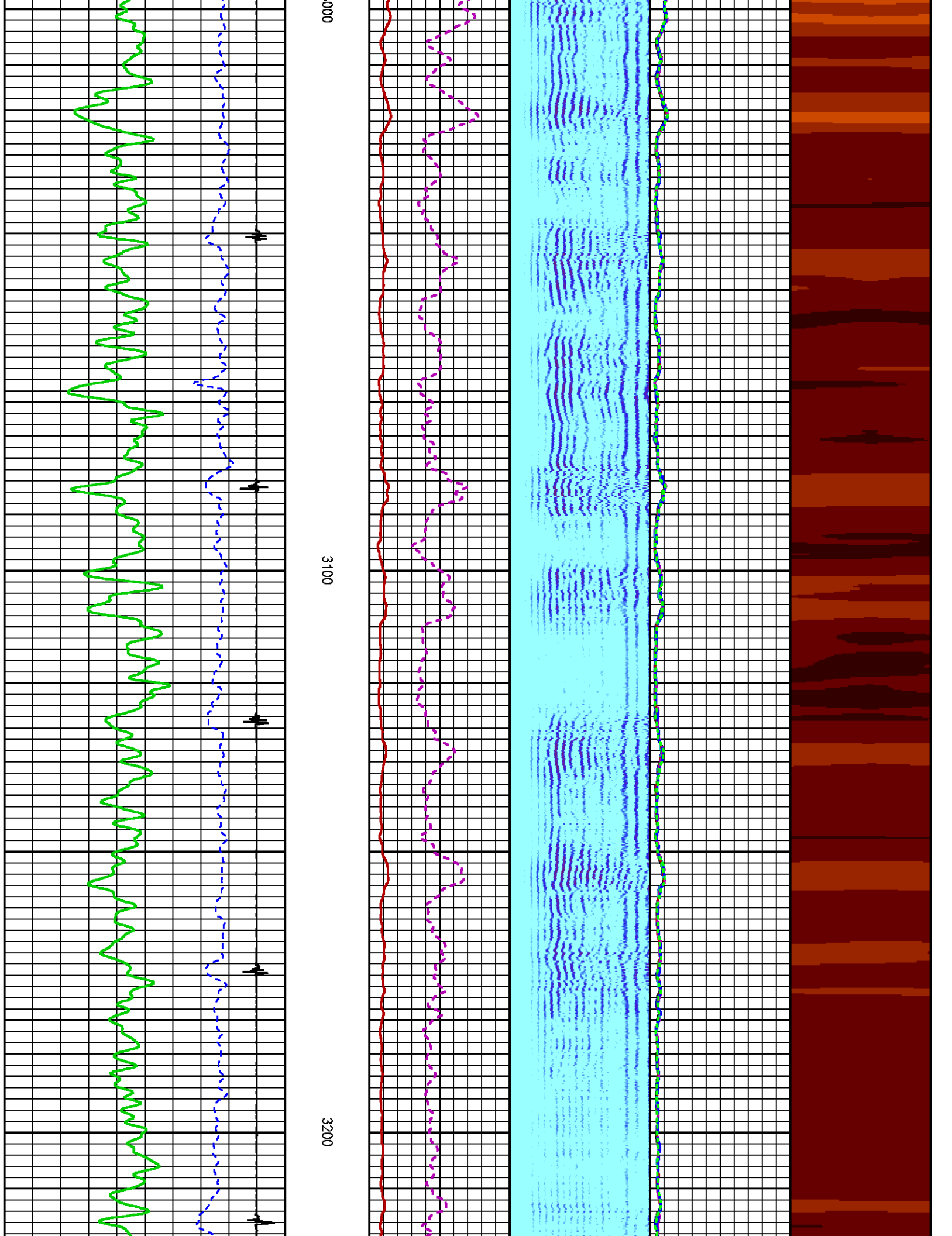


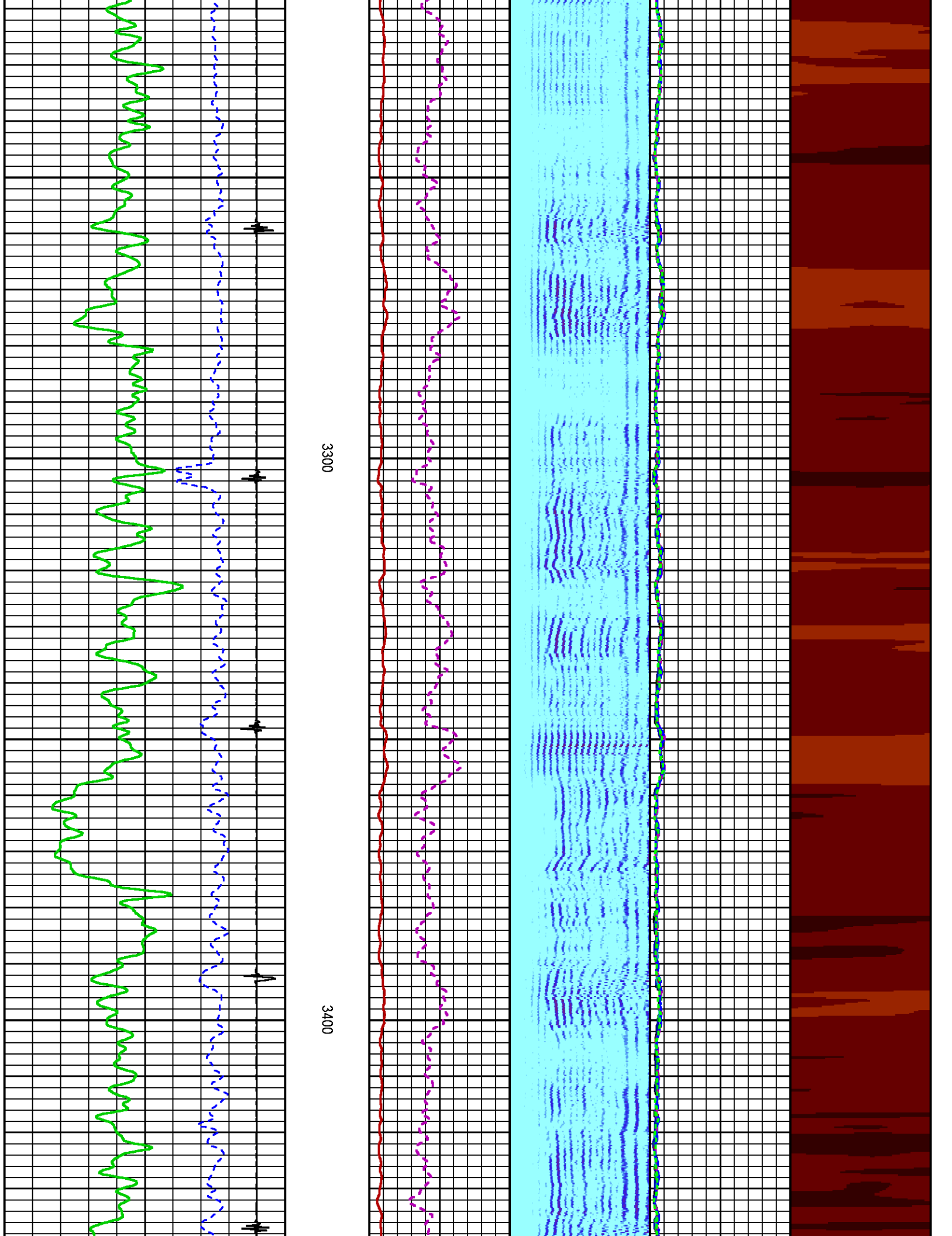
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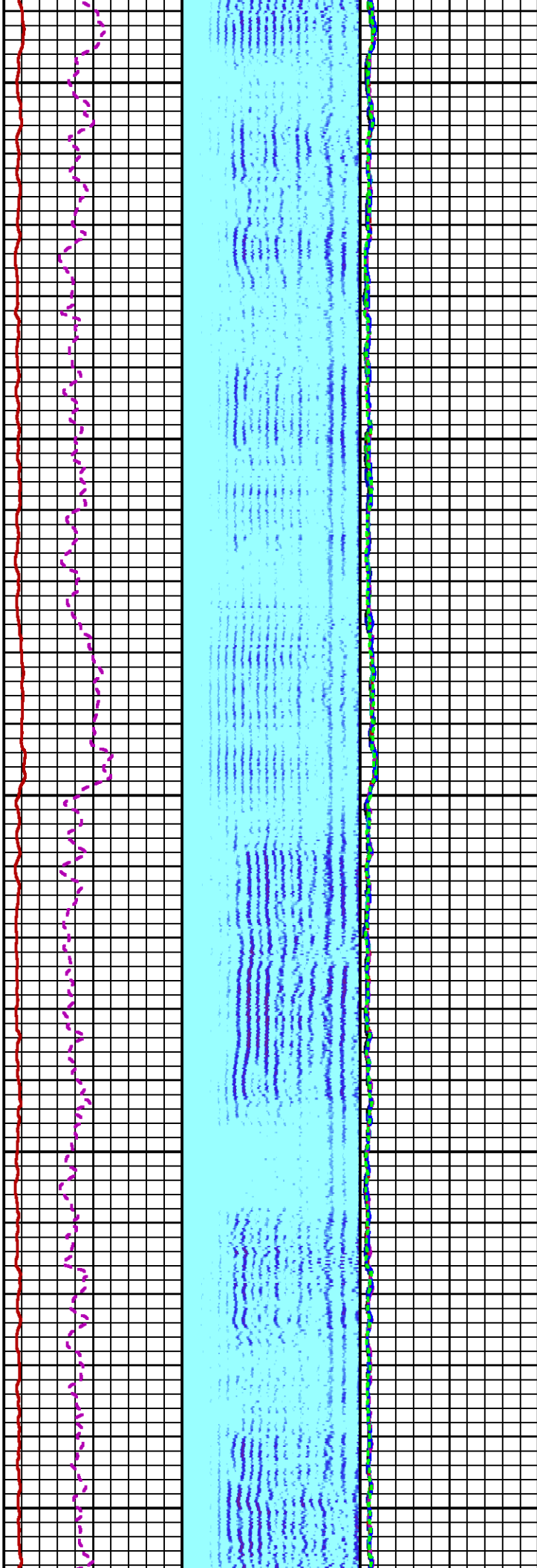
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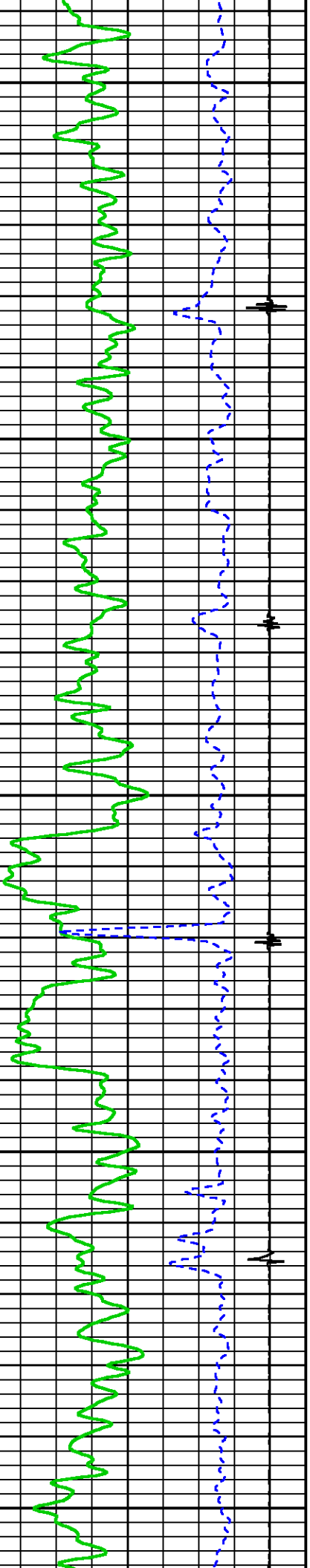


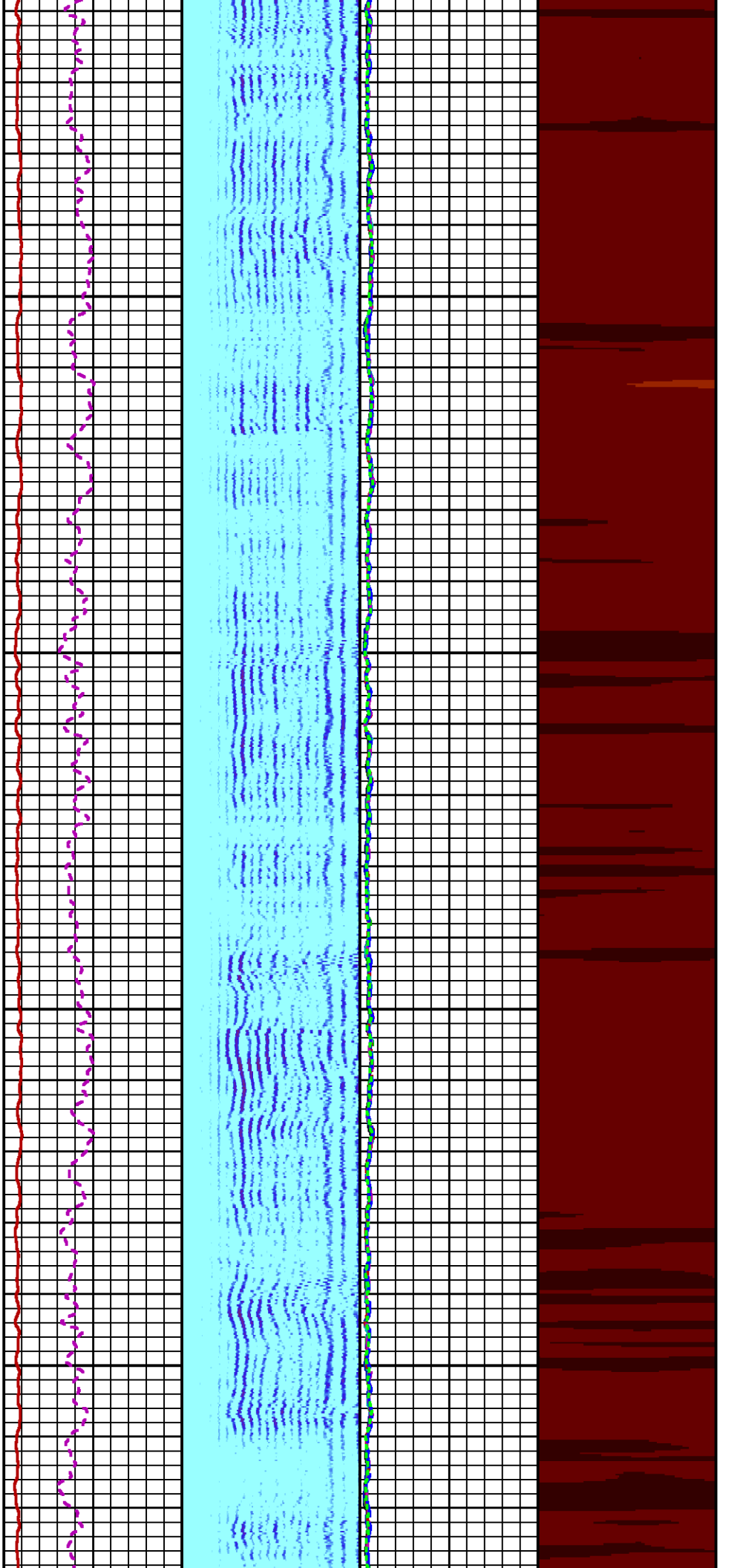




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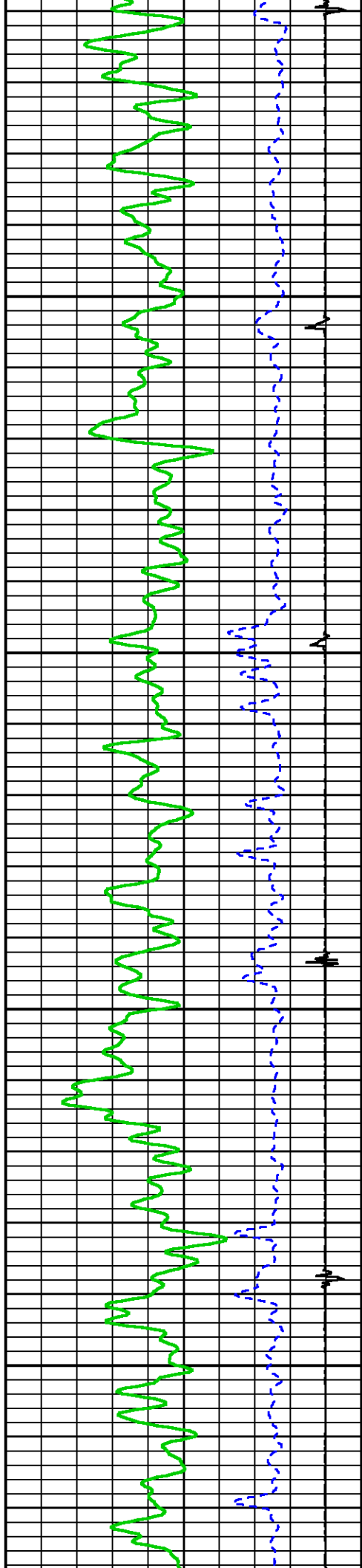
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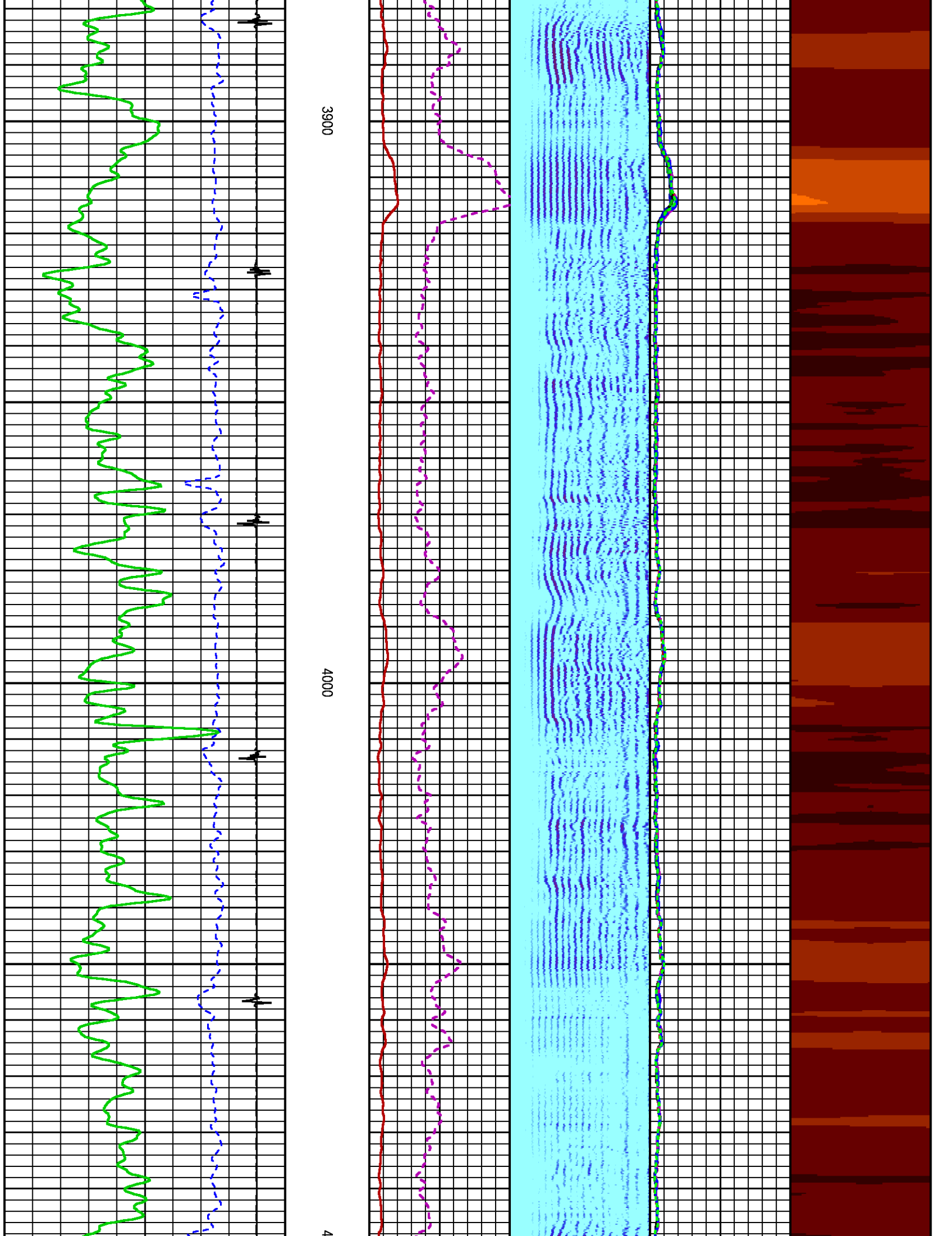


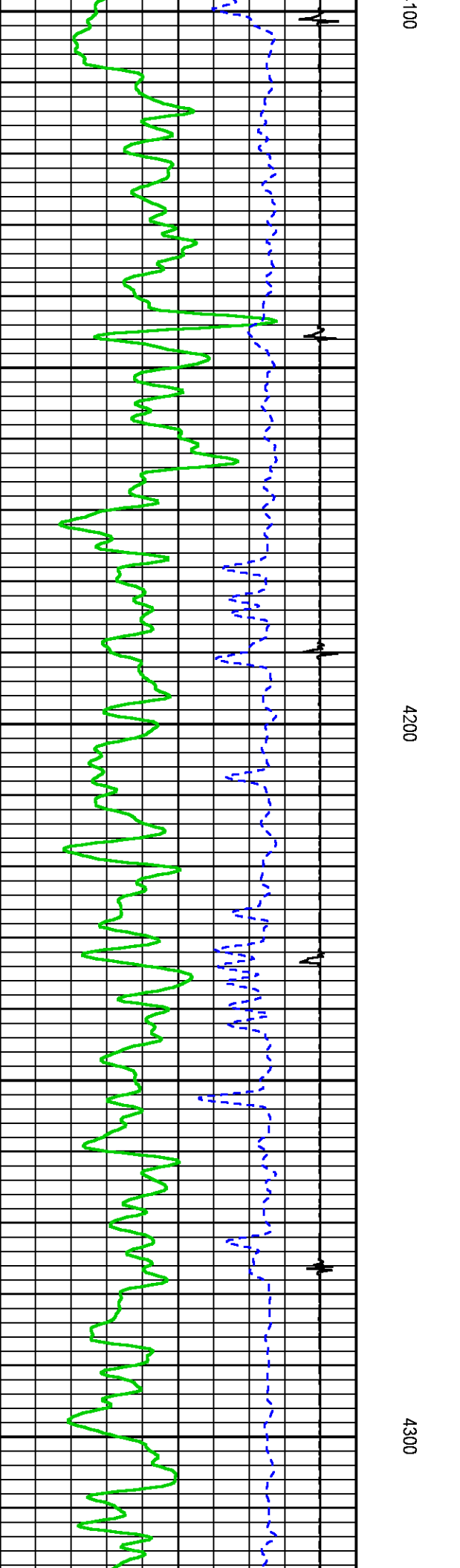
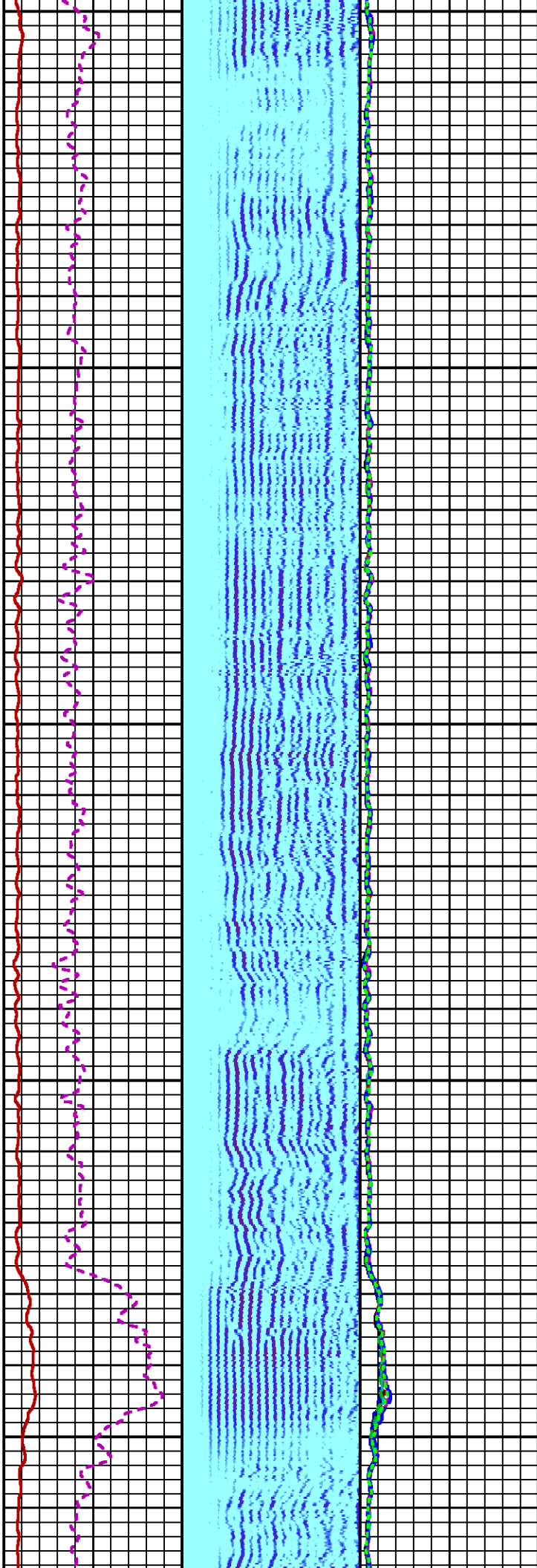
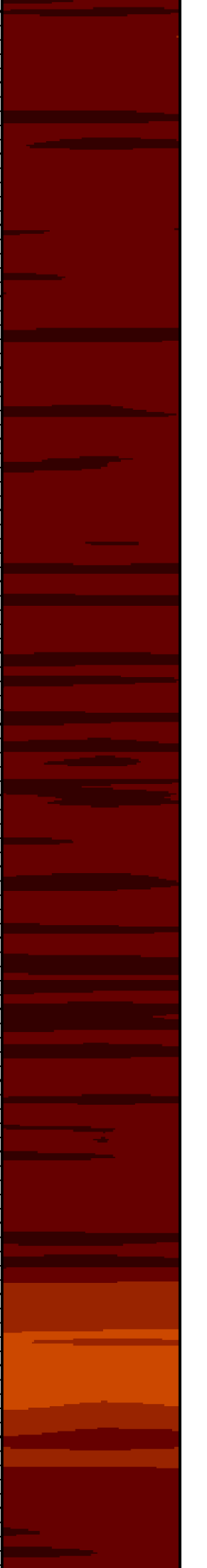


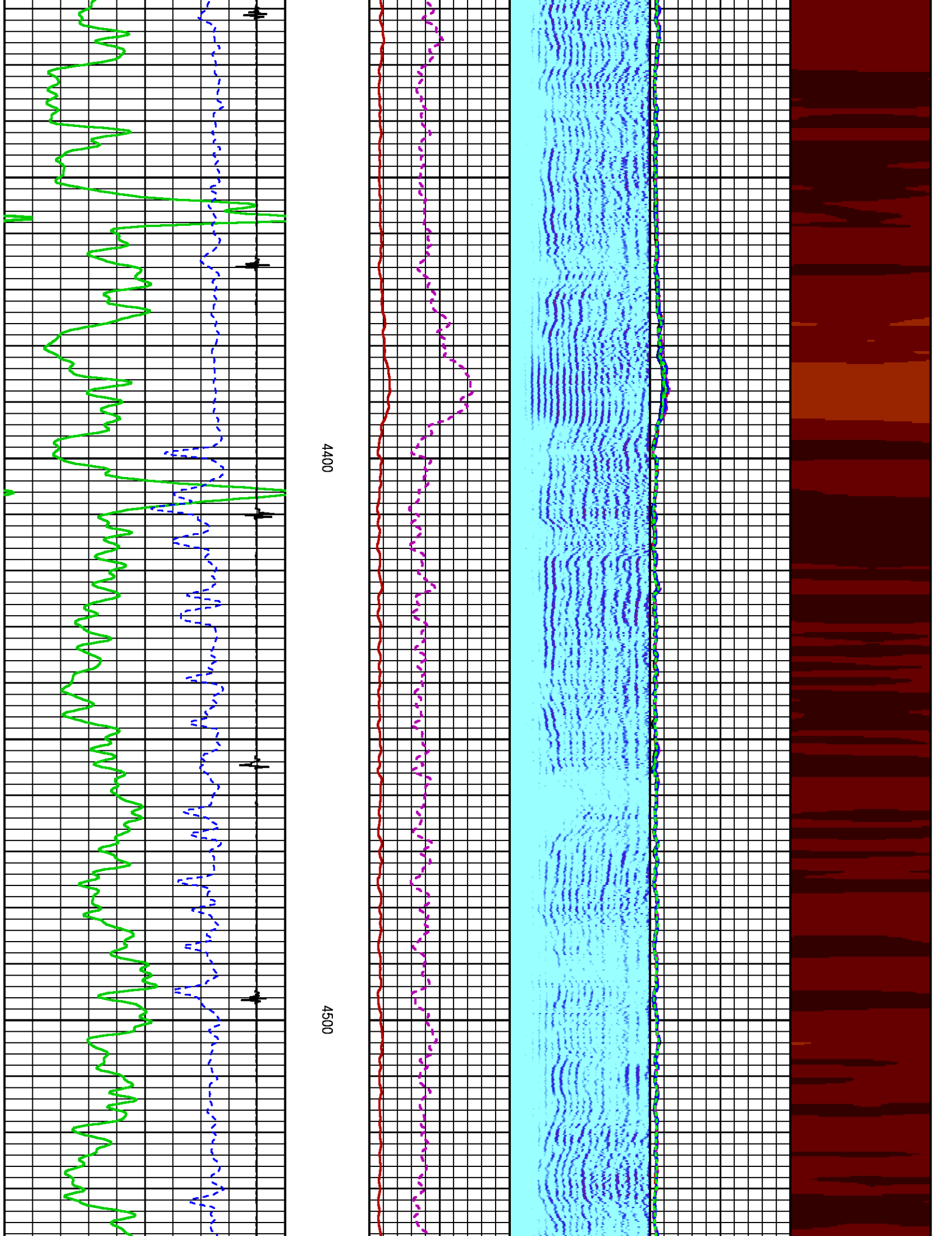
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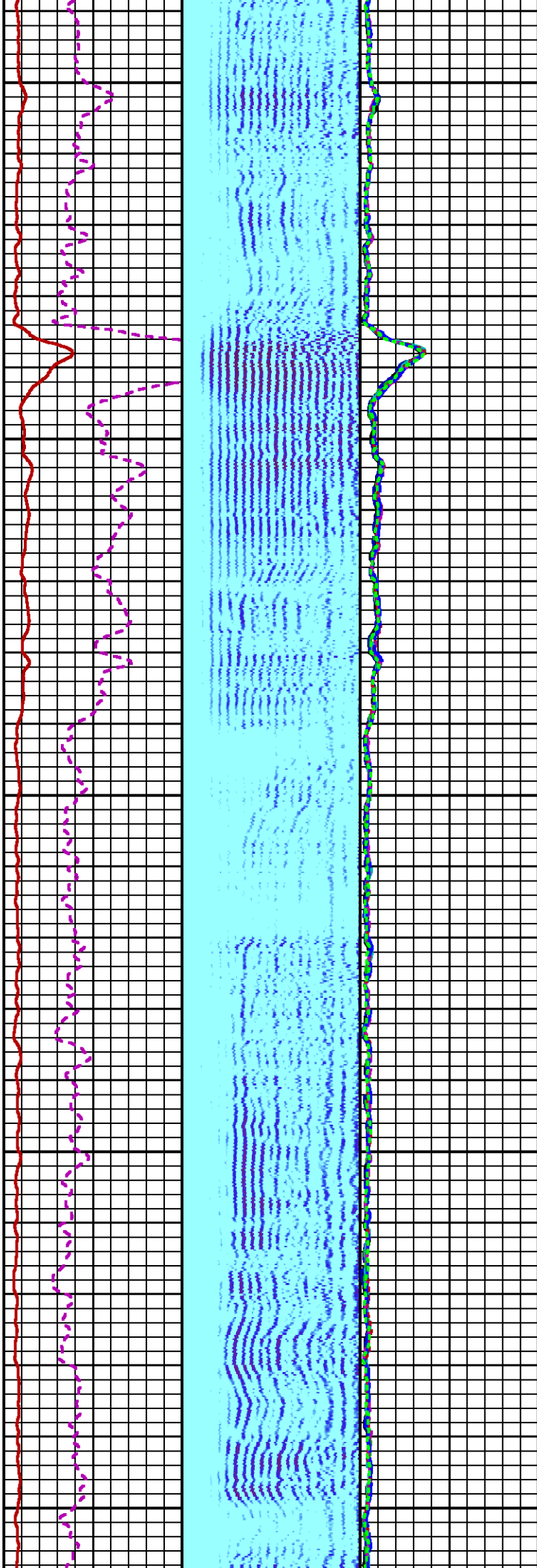
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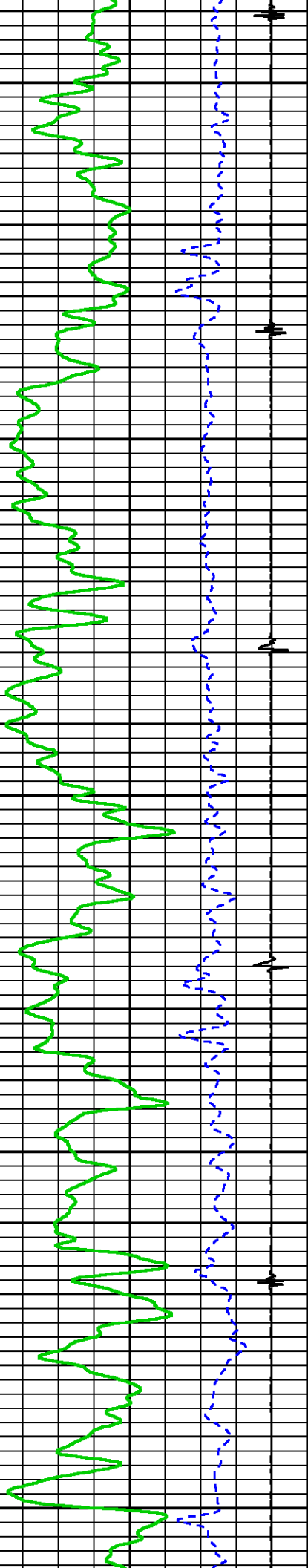


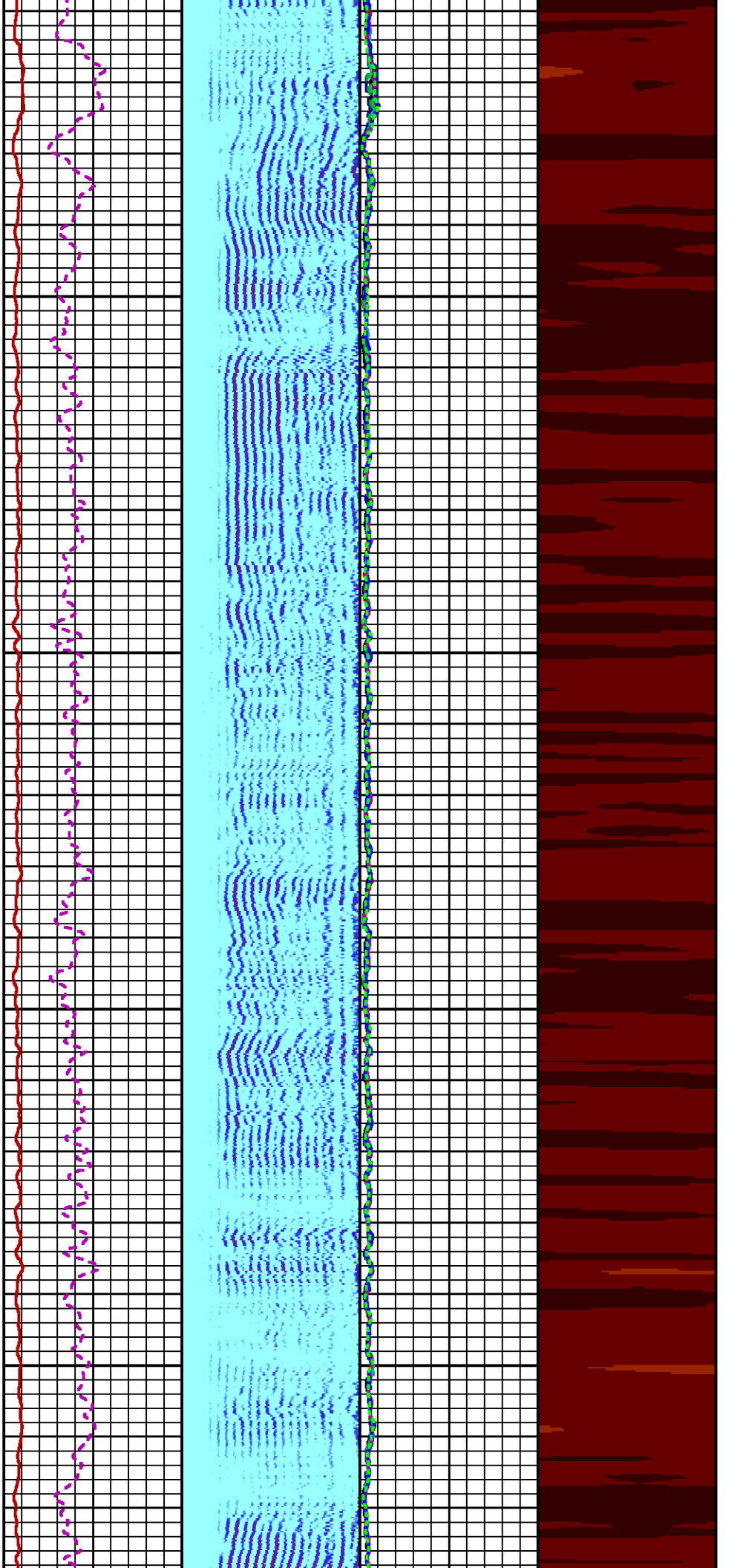




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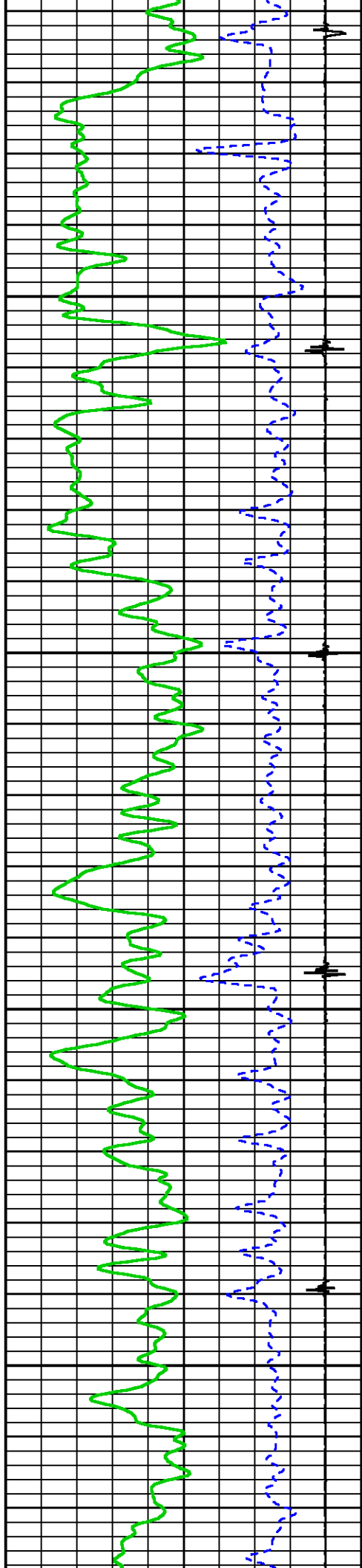
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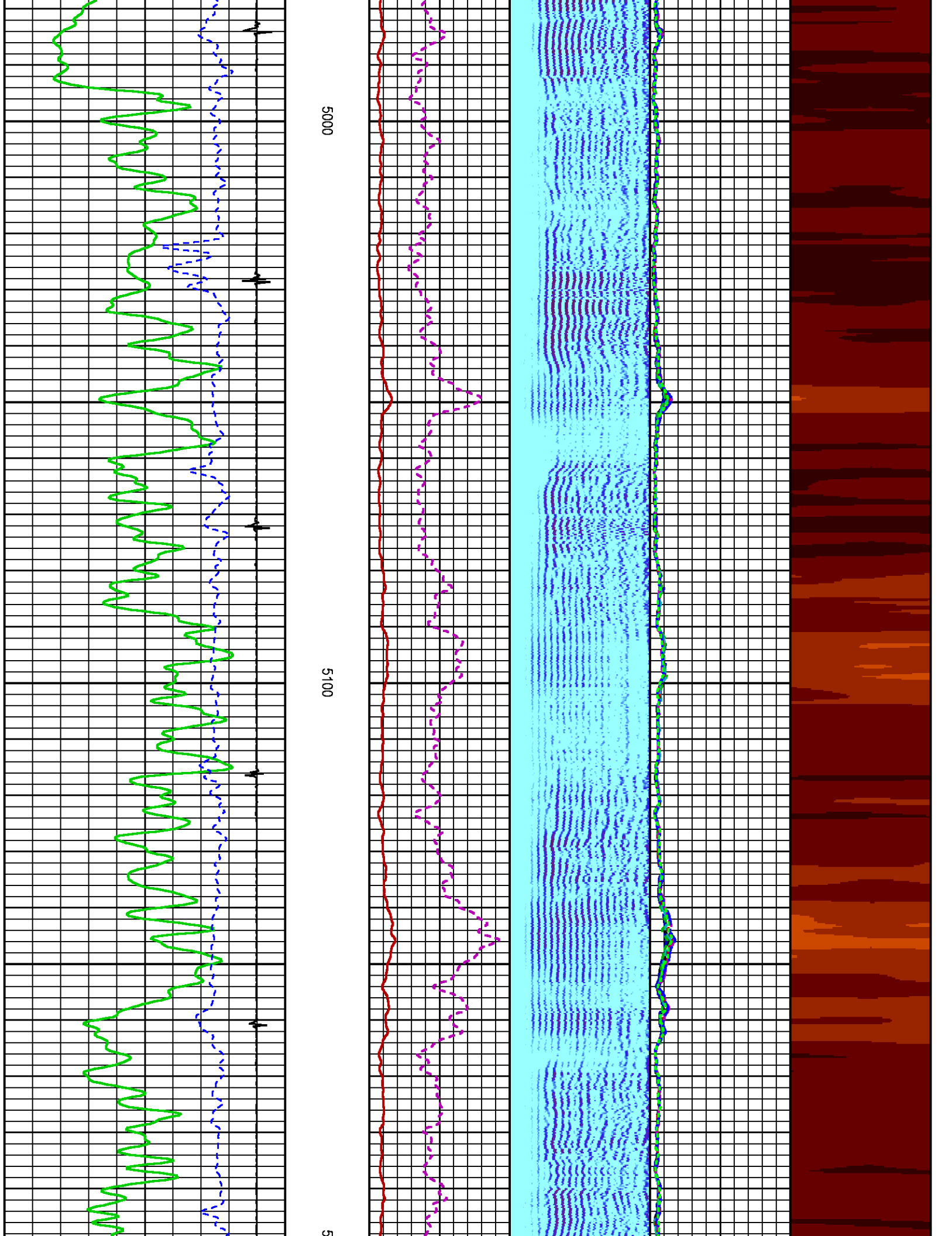


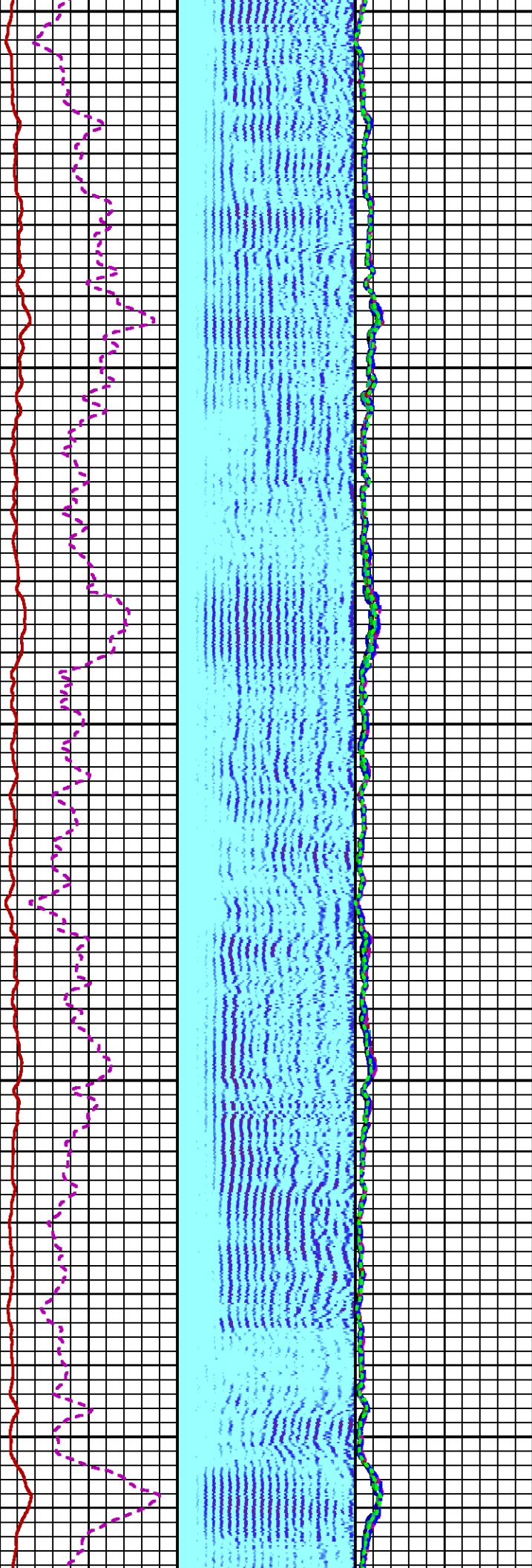
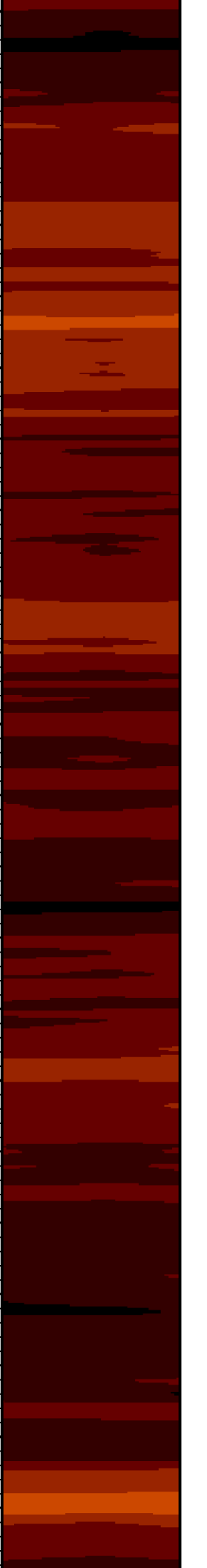


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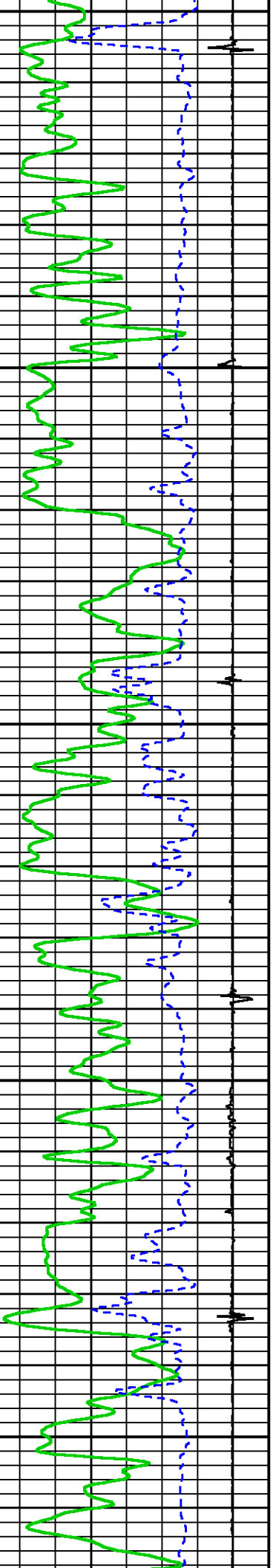


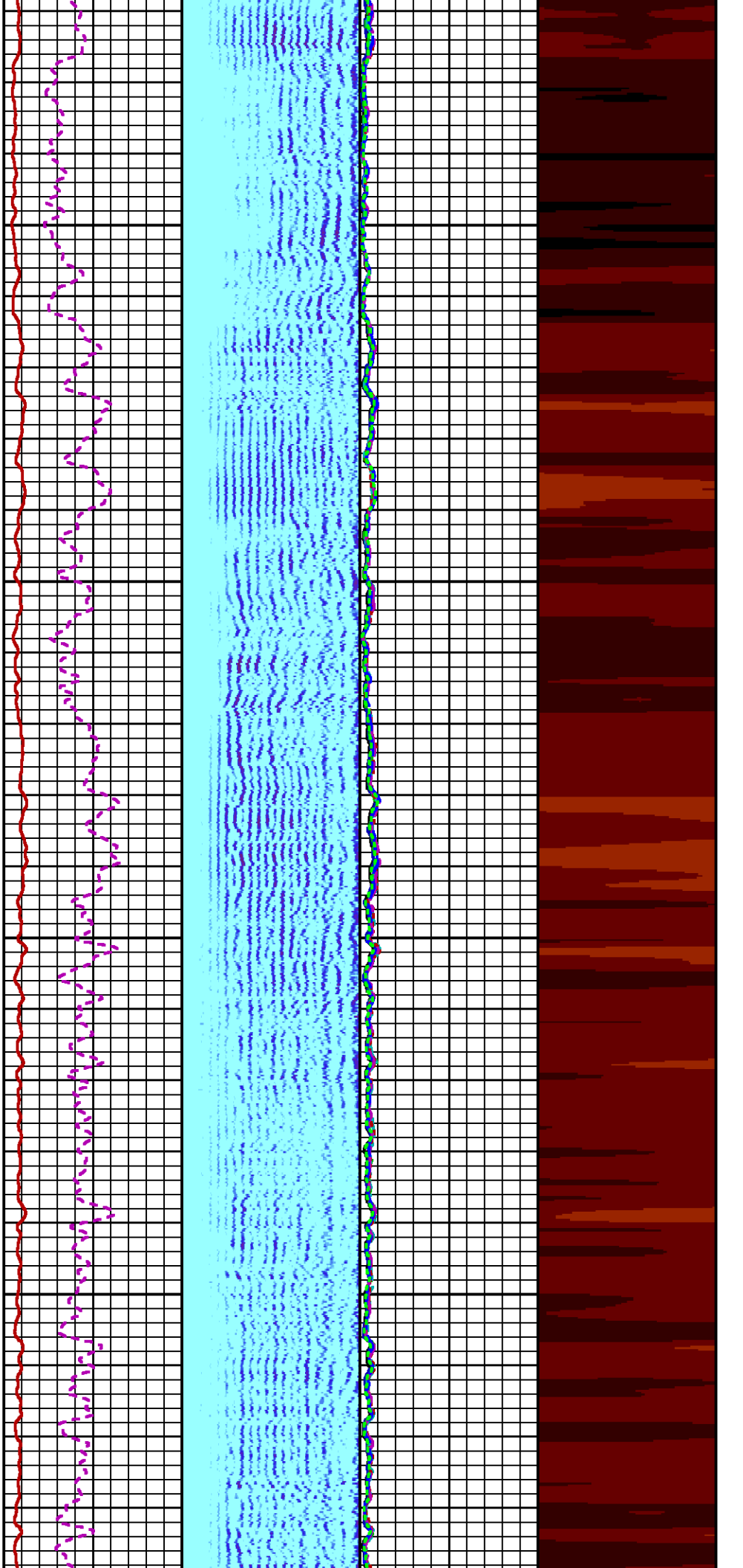


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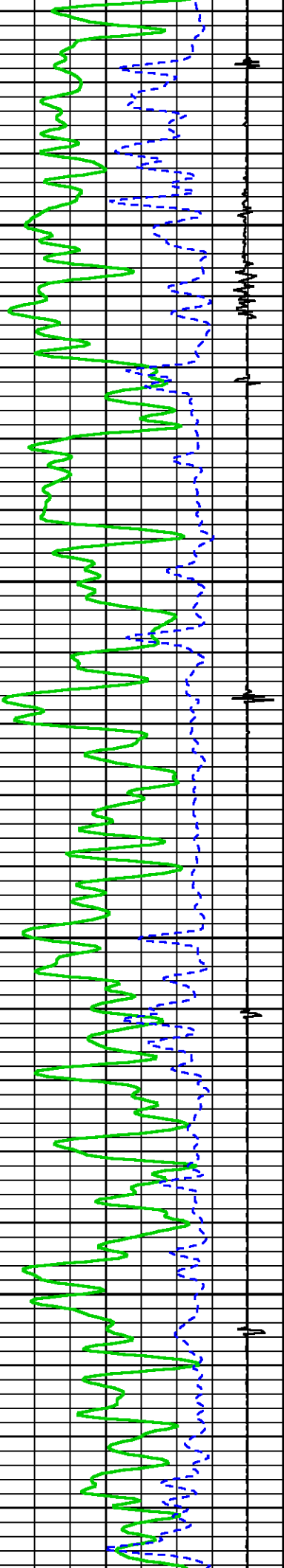
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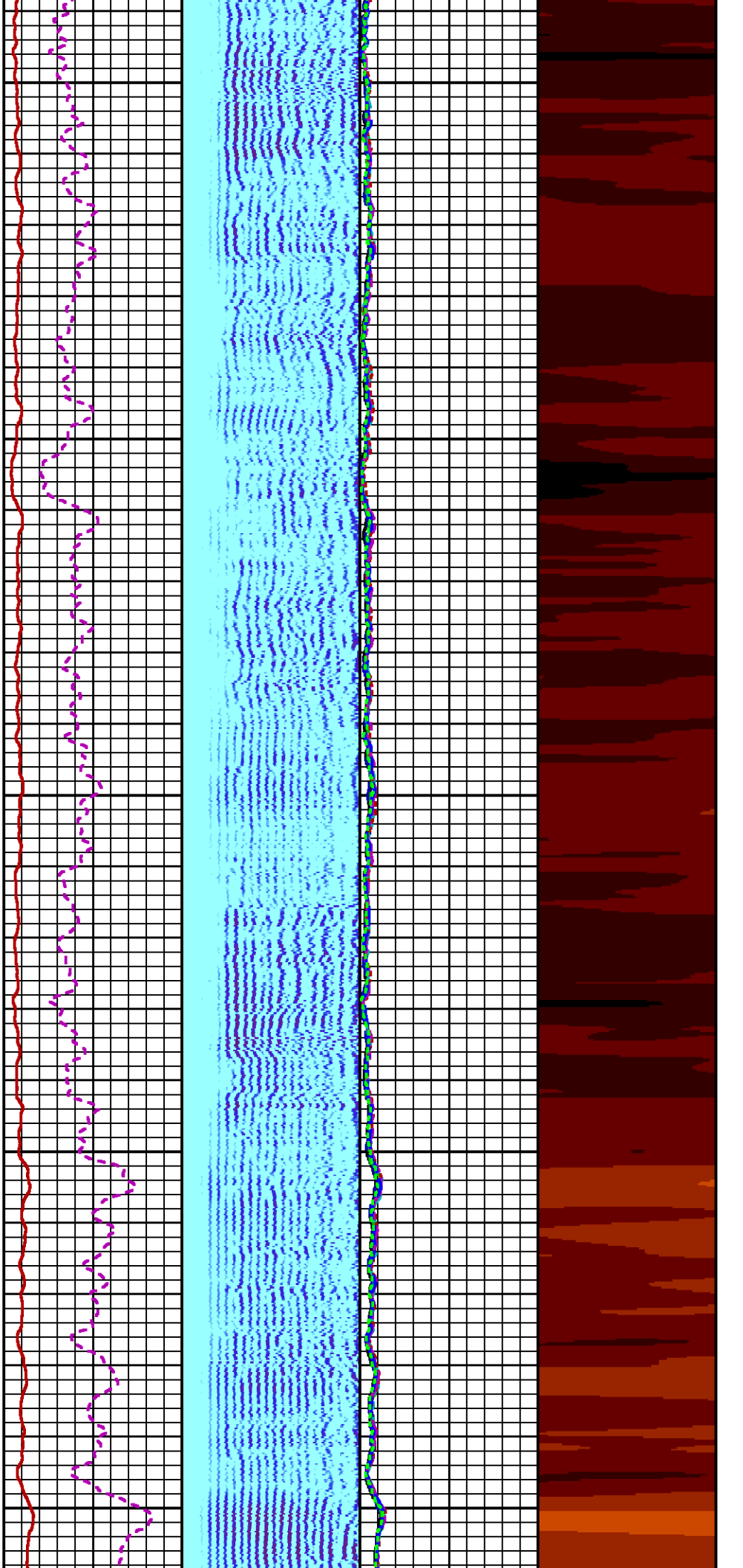




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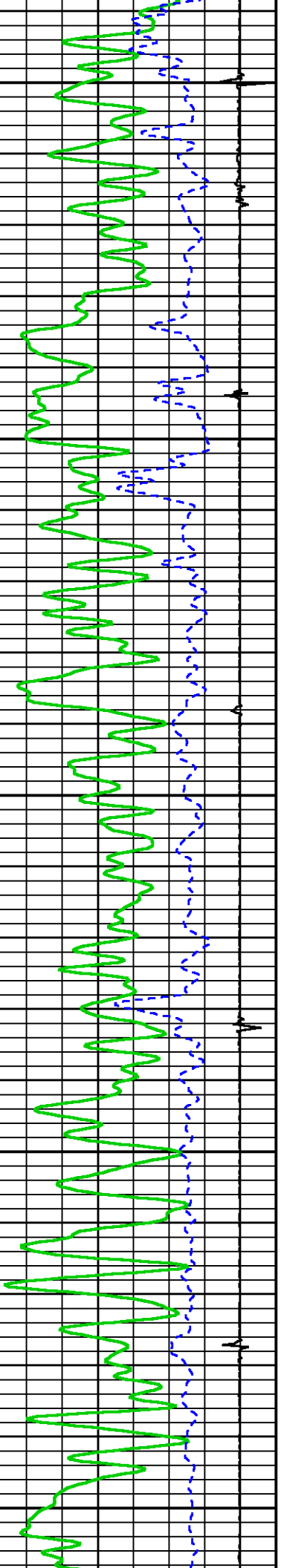
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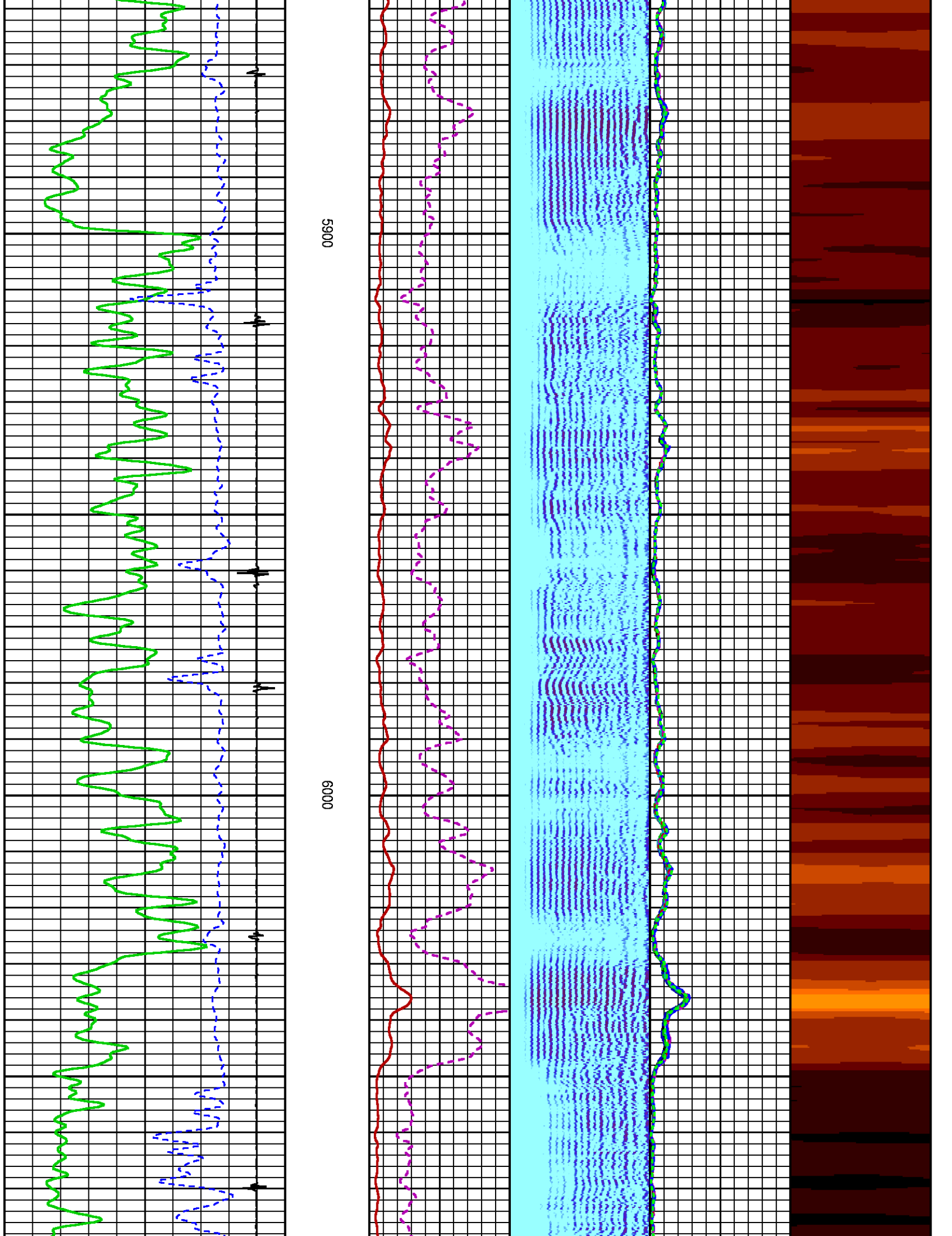


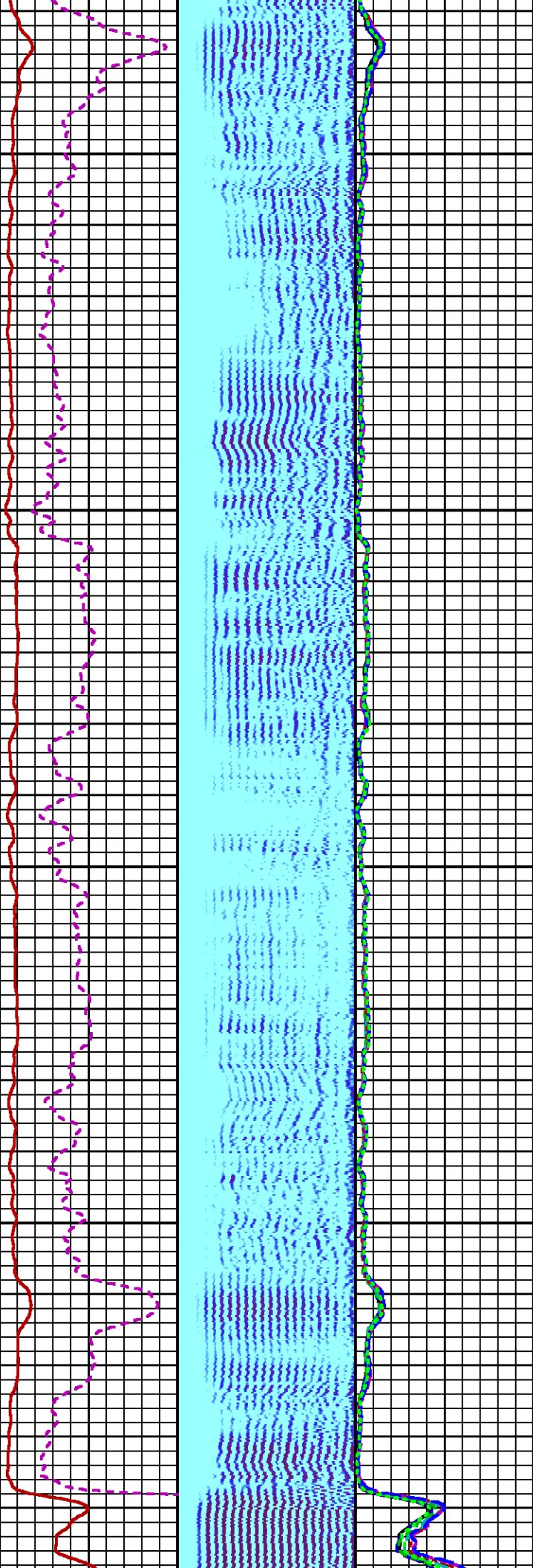


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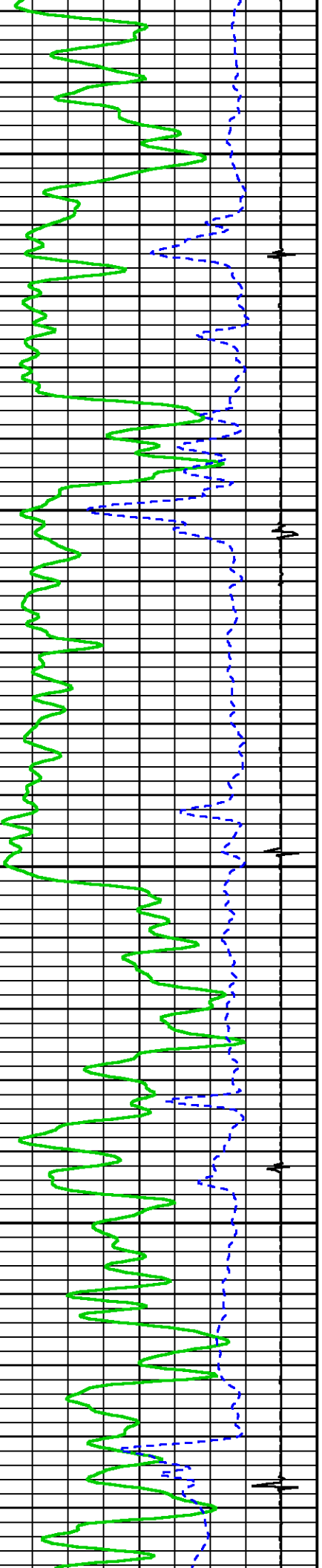


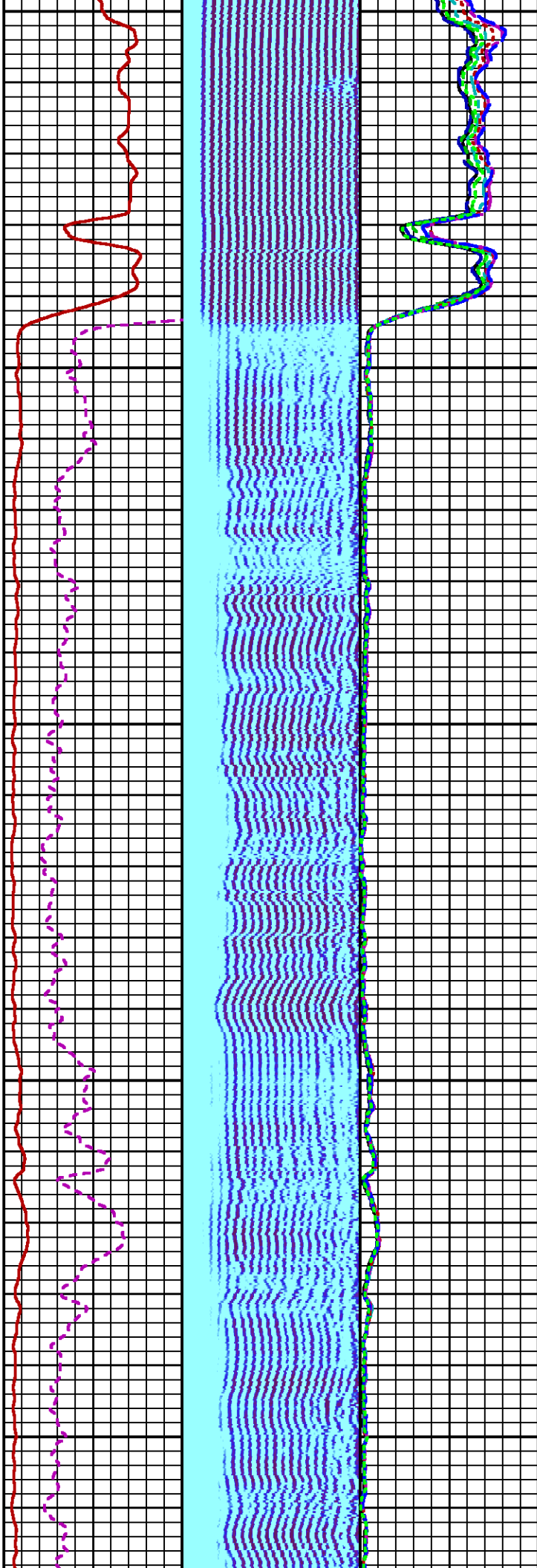
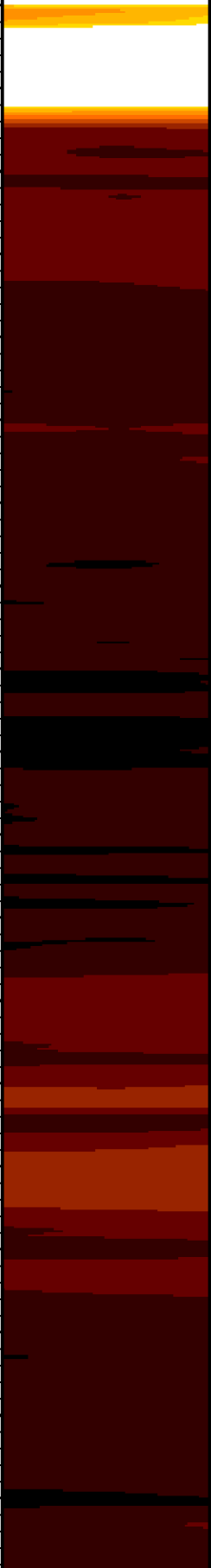


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6200

6

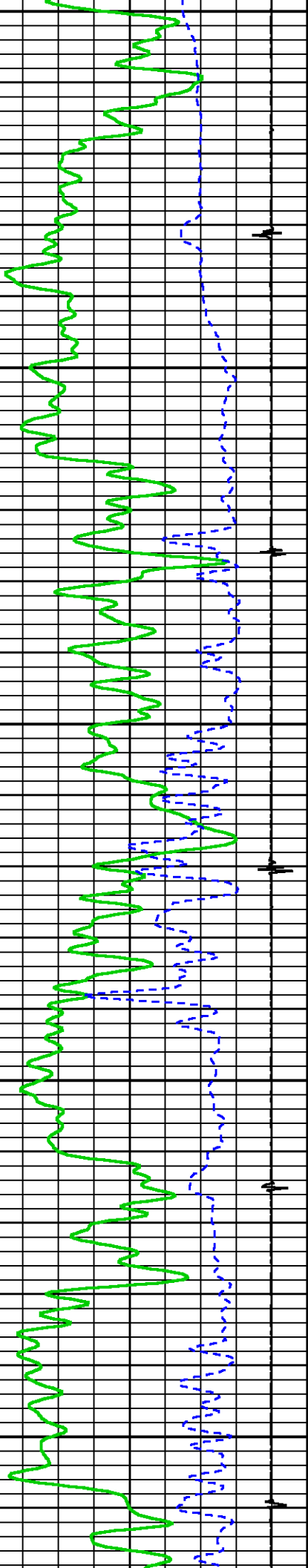


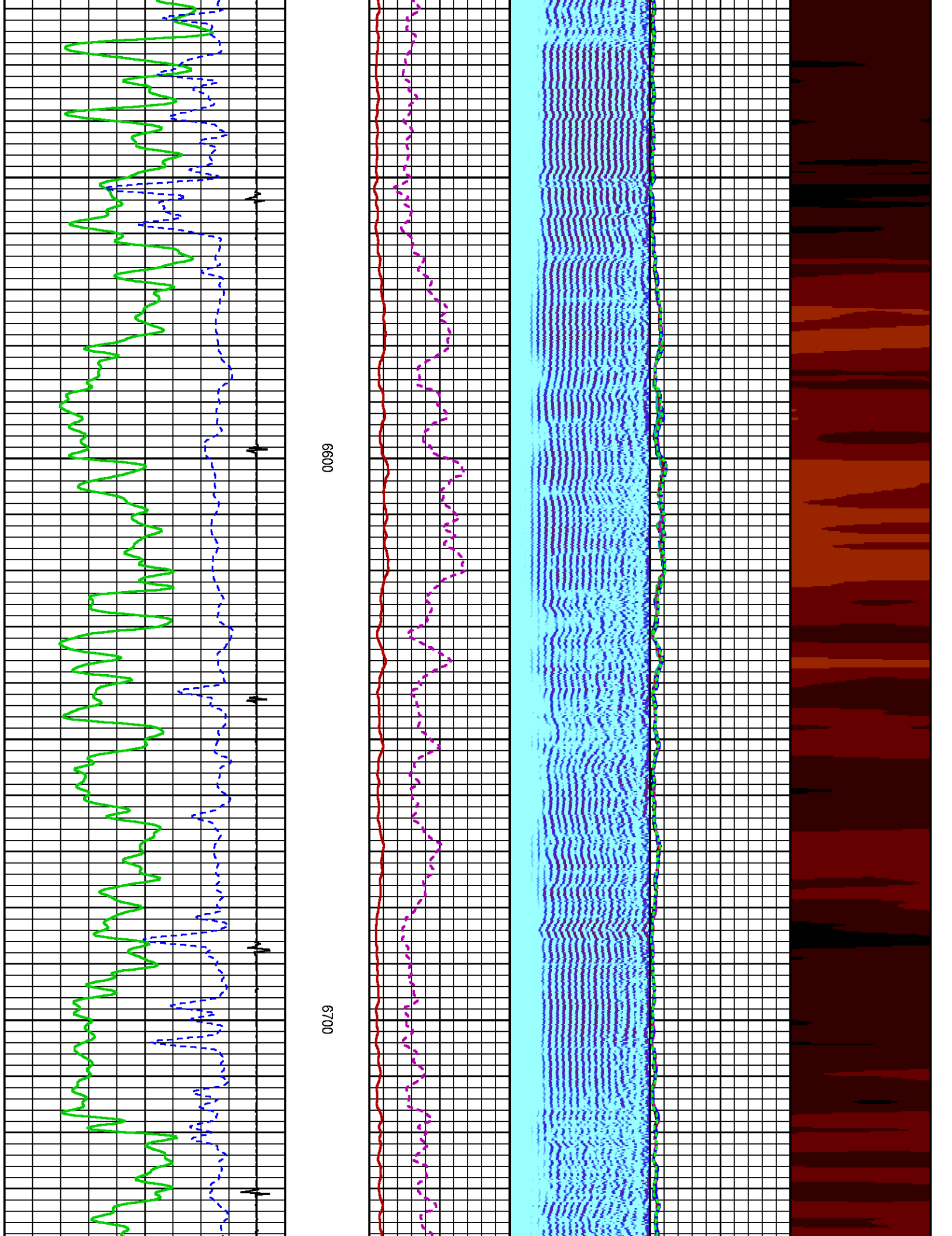


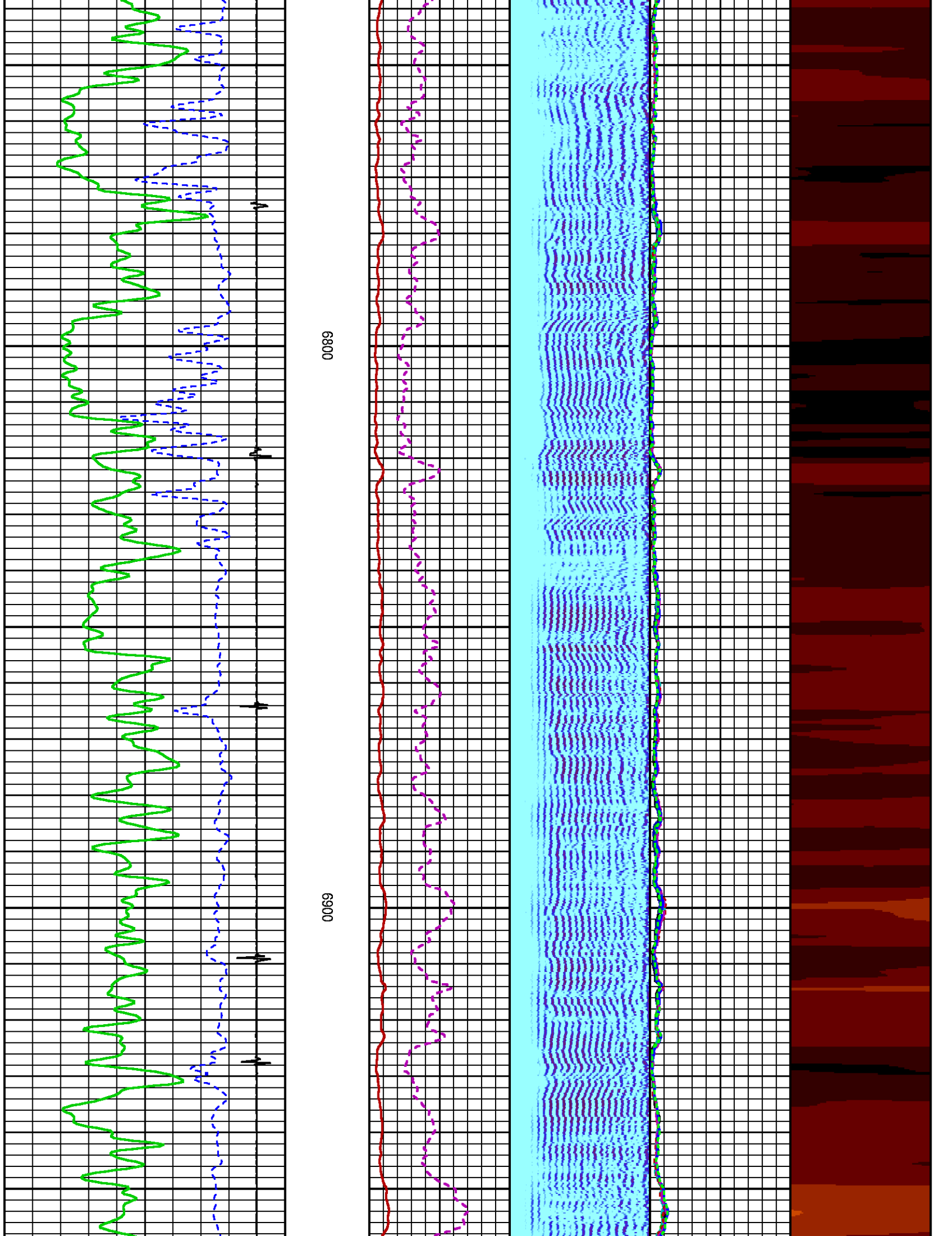
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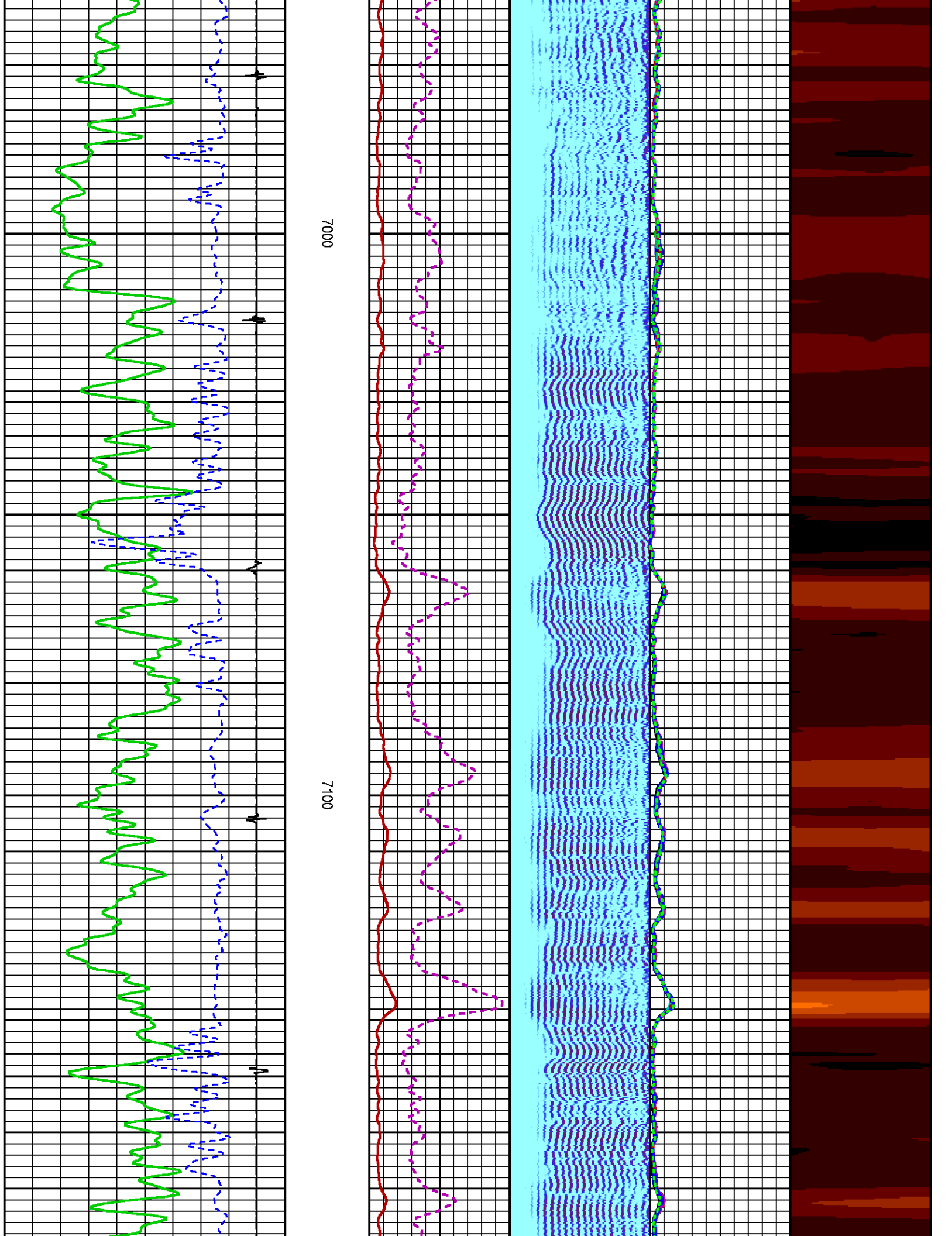
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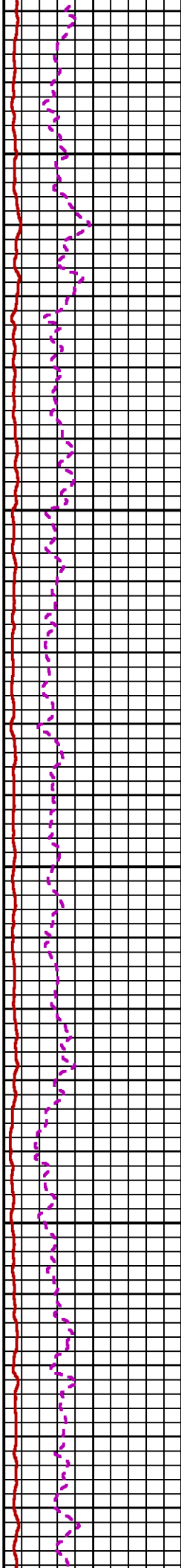
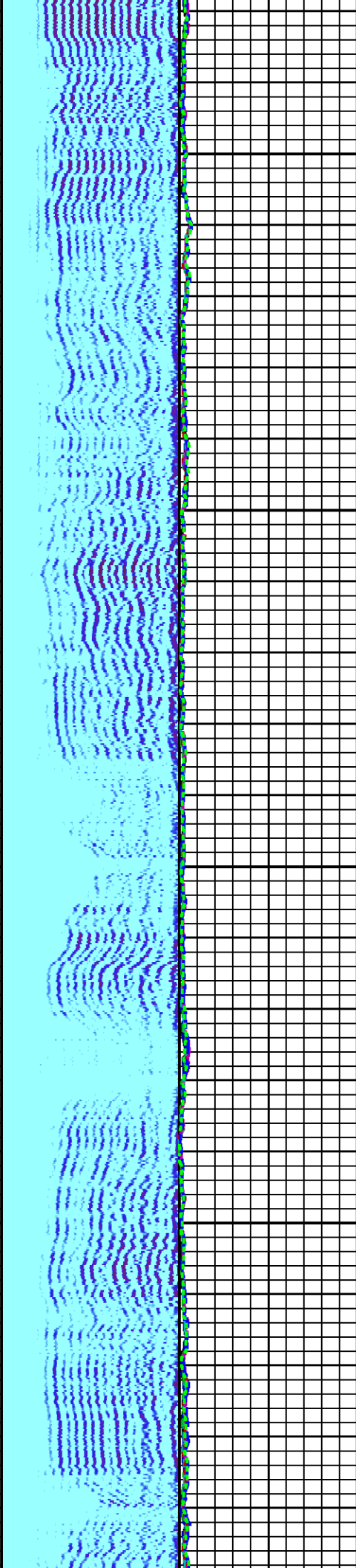
6500







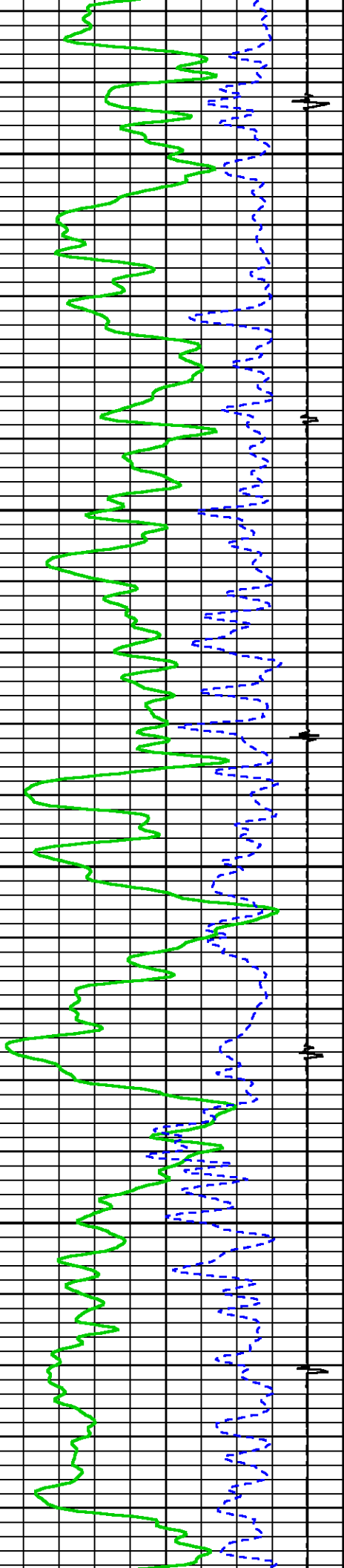


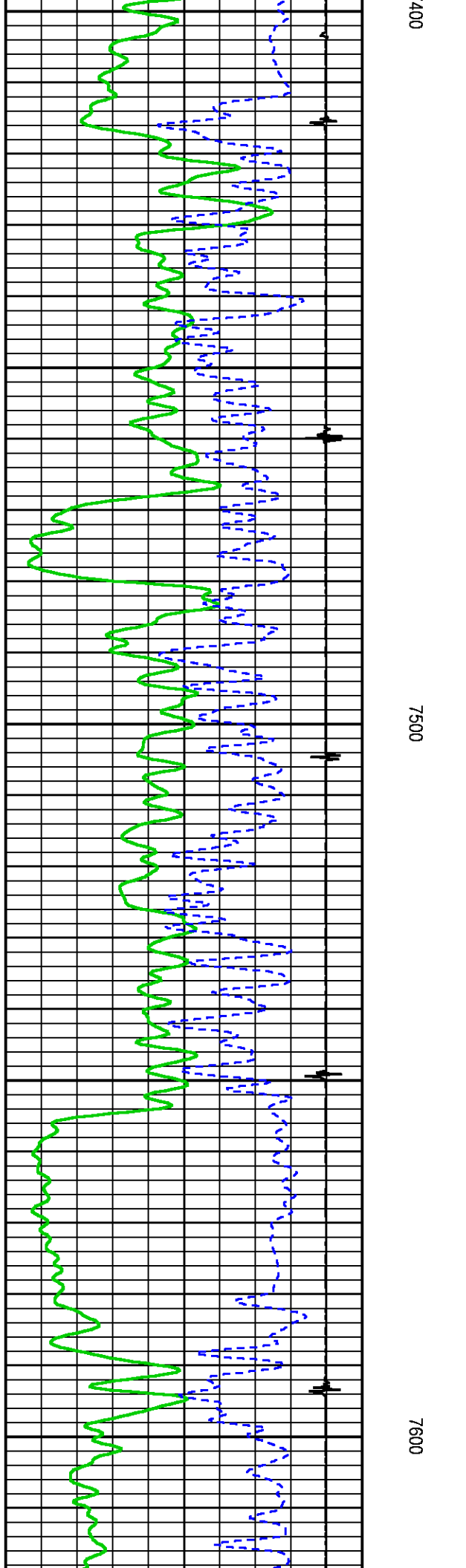
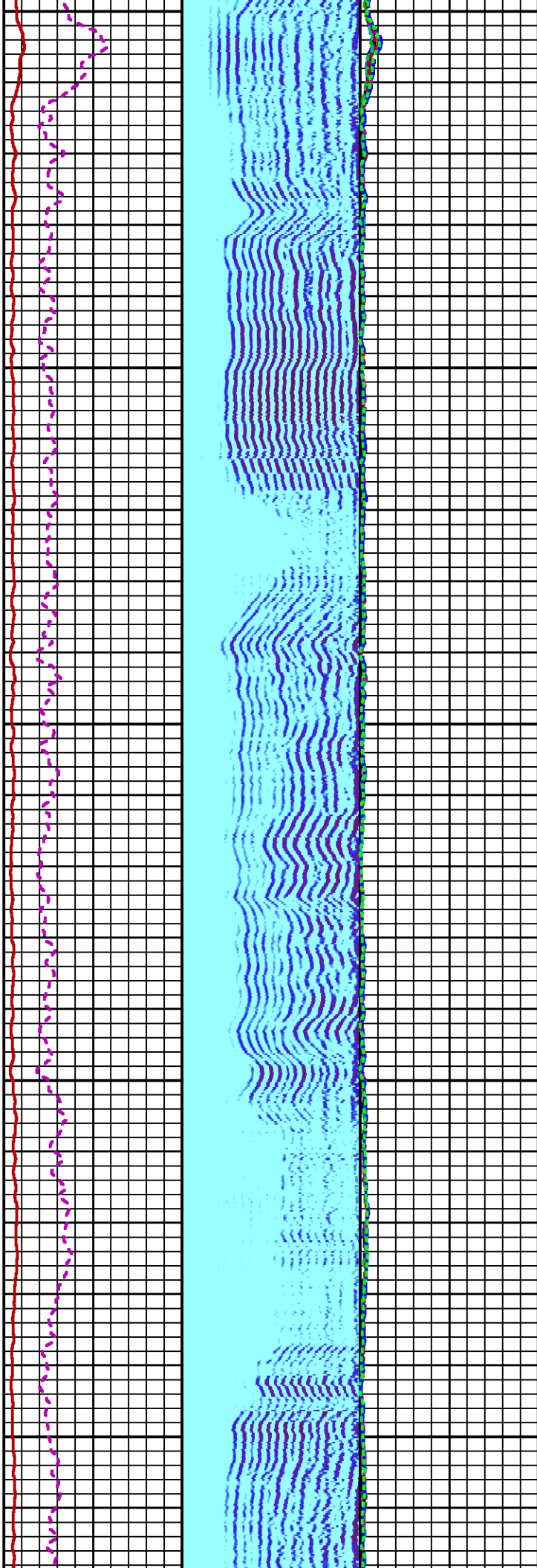
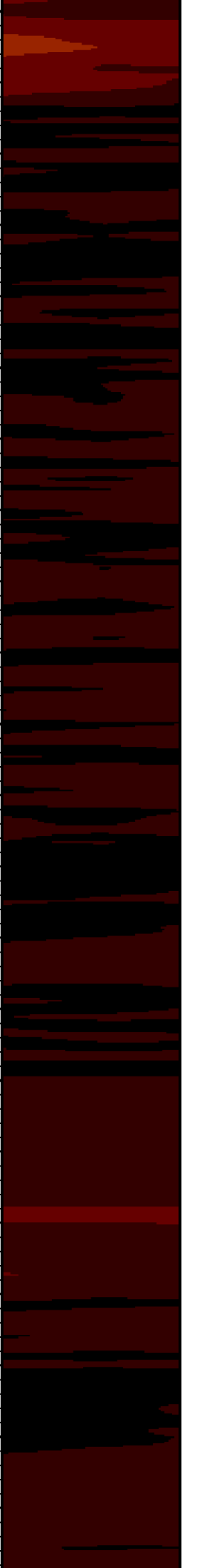


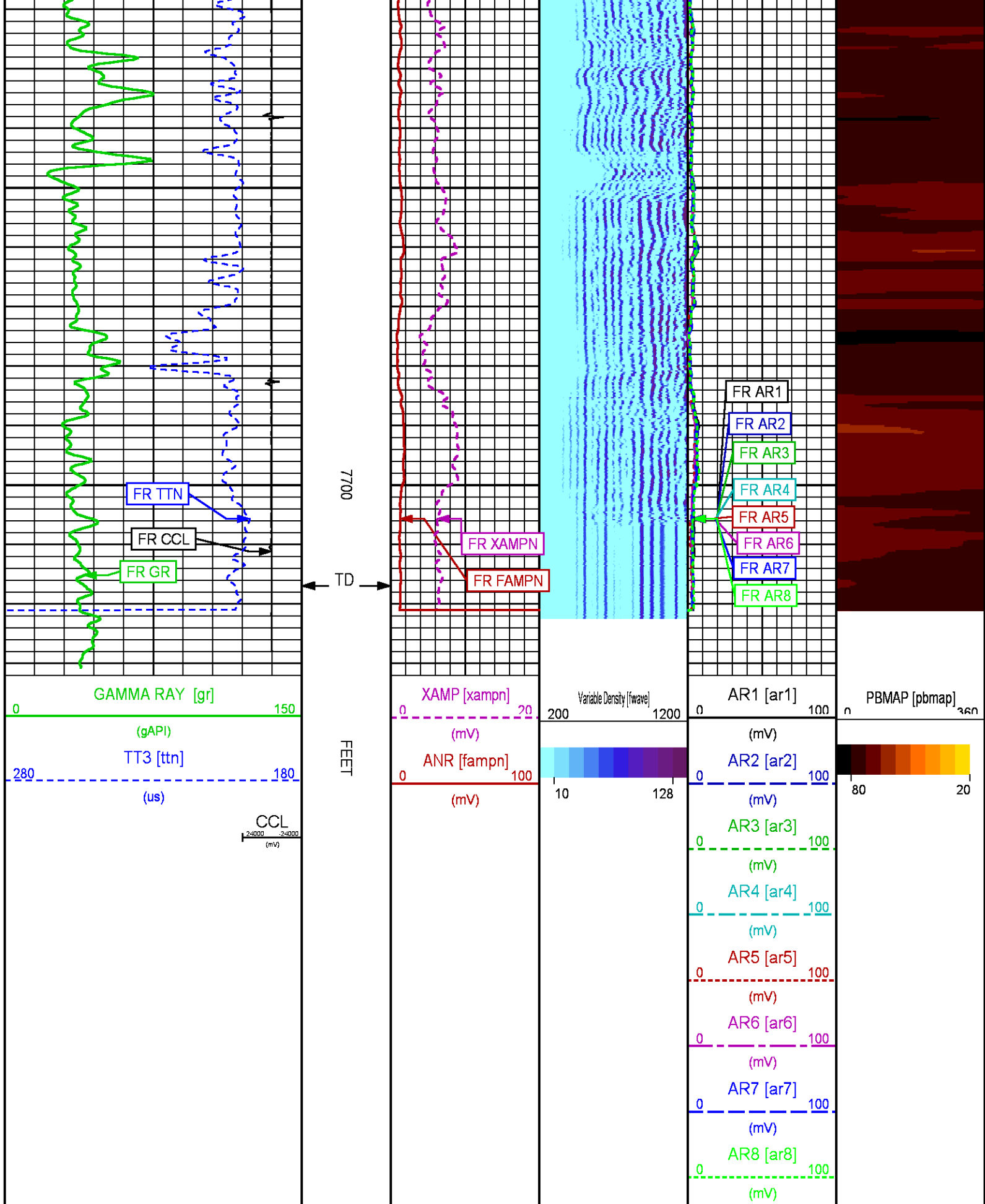
7200

7300

7







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: Fri Aug 18 18:38:06 2017

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/LARAMIE_BRUTON_19_17E/n012g01.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 7399.000 ft BOTTOM DEPTH: 7729.750 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*)	187	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	187	us	"	"
	AMP WINDOW START (fgp3*)	187	us	"	"
	AMP WINDOW START (fgp4*)	187	us	"	"
	AMP WINDOW START (fgp5*)	187	us	"	"
	AMP WINDOW START (fgp6*)	187	us	"	"
	AMP WINDOW START (fgp7*)	187	us	"	"
	AMP WINDOW START (fgp8*)	187	us	"	"
	AMP WINDOW START (fgpn*)	187	us	"	"
TRAVEL TIME WINDOW (NEAR)	AMP WINDOW LENGTH	25	us	"	"
	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*)	-59	us	"	"
	TOOL DELAY (str2*)	-59	us	"	"
	TOOL DELAY (str3*)	-59	us	"	"
	TOOL DELAY (str4*)	-59	us	"	"
	TOOL DELAY (str5*)	-59	us	"	"
	TOOL DELAY (str6*)	-59	us	"	"
	TOOL DELAY (str7*)	-59	us	"	"
	TOOL DELAY (str8*)	-59	us	"	"
BASELINE NOISE (NEAR)	TOOL DELAY (strn*)	-59	us	"	"
	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 5	2	mV	"	"
FULL BOND AMP REC 6	2	mV	"	"
FULL BOND AMP REC 7	2	mV	"	"
FULL BOND AMP REC 8	2	mV	"	"

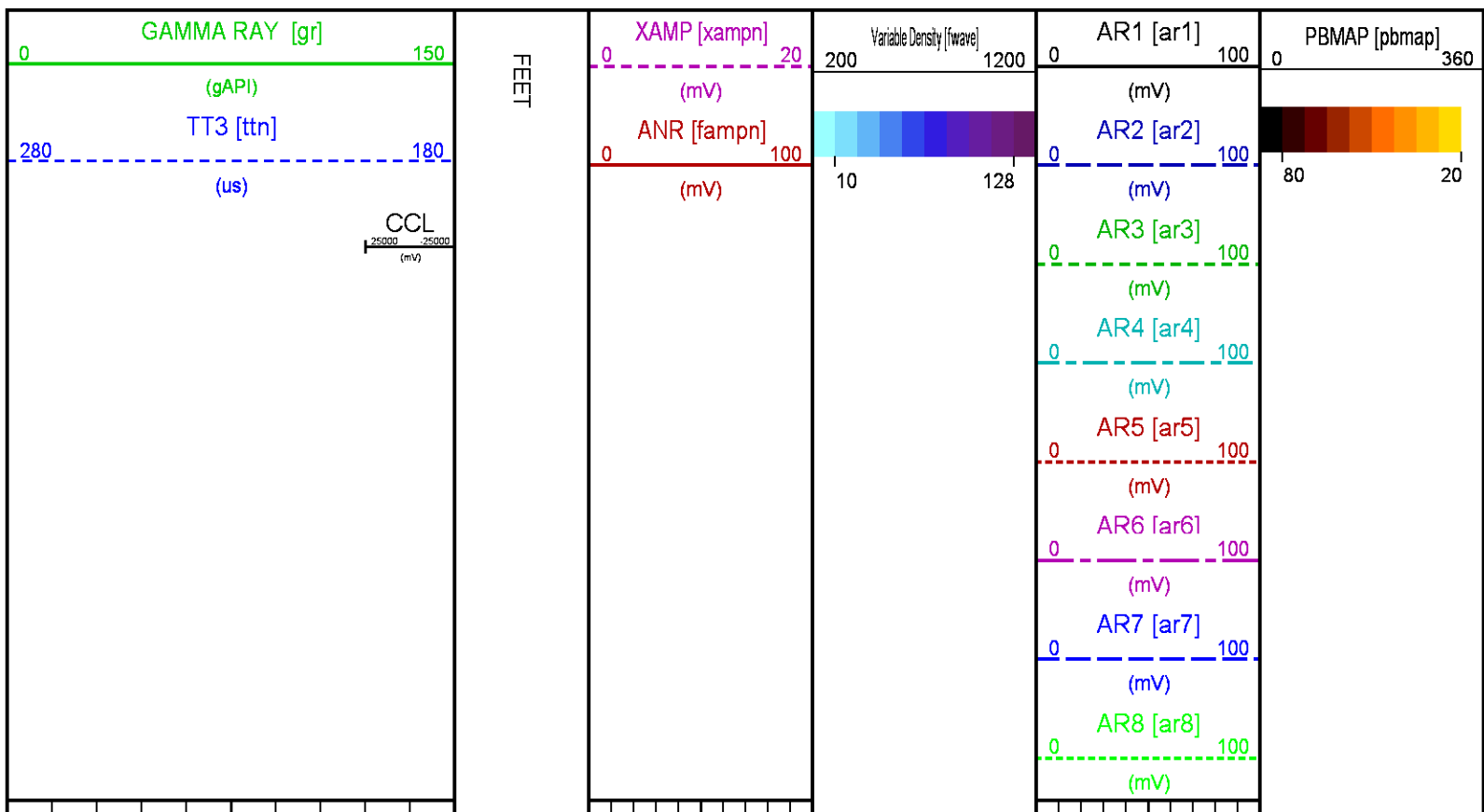
CURVE DESCRIPTION REPORT

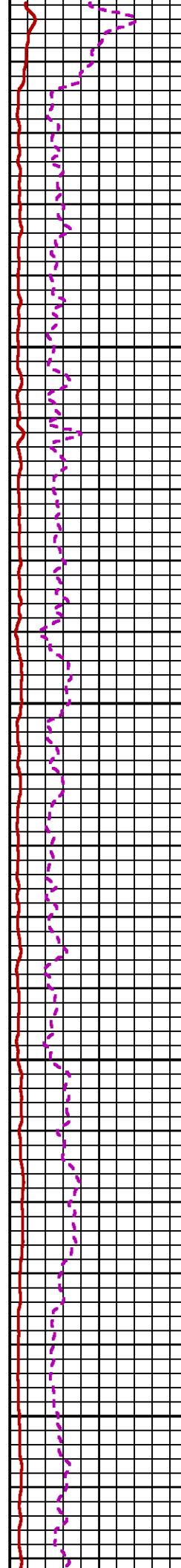
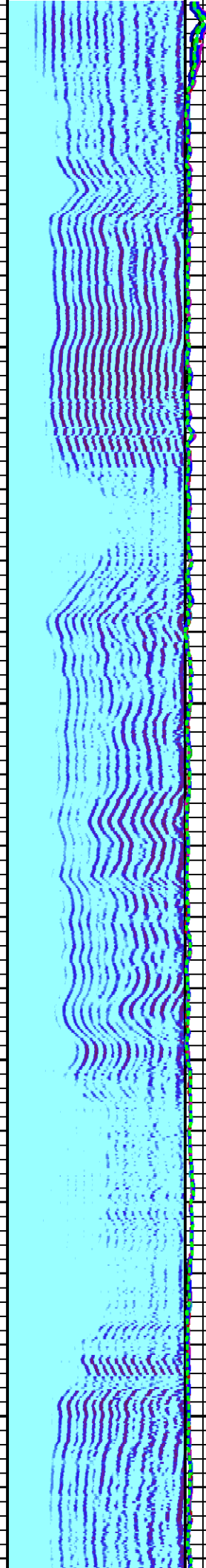
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Aug 18 18:27:59 2017	FIXED GATE AMPLITUDE T-R1
F1:AR2	Aug 18 18:27:59 2017	FIXED GATE AMPLITUDE T-R2
F1:AR3	Aug 18 18:27:59 2017	FIXED GATE AMPLITUDE T-R3
F1:AR4	Aug 18 18:27:59 2017	FIXED GATE AMPLITUDE T-R4
F1:AR5	Aug 18 18:27:59 2017	FIXED GATE AMPLITUDE T-R5
F1:AR6	Aug 18 18:27:59 2017	FIXED GATE AMPLITUDE T-R6
F1:AR7	Aug 18 18:27:59 2017	FIXED GATE AMPLITUDE T-R7
F1:AR8	Aug 18 18:27:59 2017	FIXED GATE AMPLITUDE T-R8
F1:CCL	Aug 18 18:27:59 2017	CASING COLLAR LOCATOR
F1:FAMPN	Aug 18 18:27:59 2017	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Aug 18 18:27:59 2017	FAR WAVE FORM
F1:GR	Aug 18 18:27:59 2017	GAMMA RAY
F1:PBMAP	Aug 18 18:27:59 2017	PERCENT BOND CEMENT MAP
F1:TTN	Aug 18 18:27:59 2017	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Aug 18 18:27:59 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		

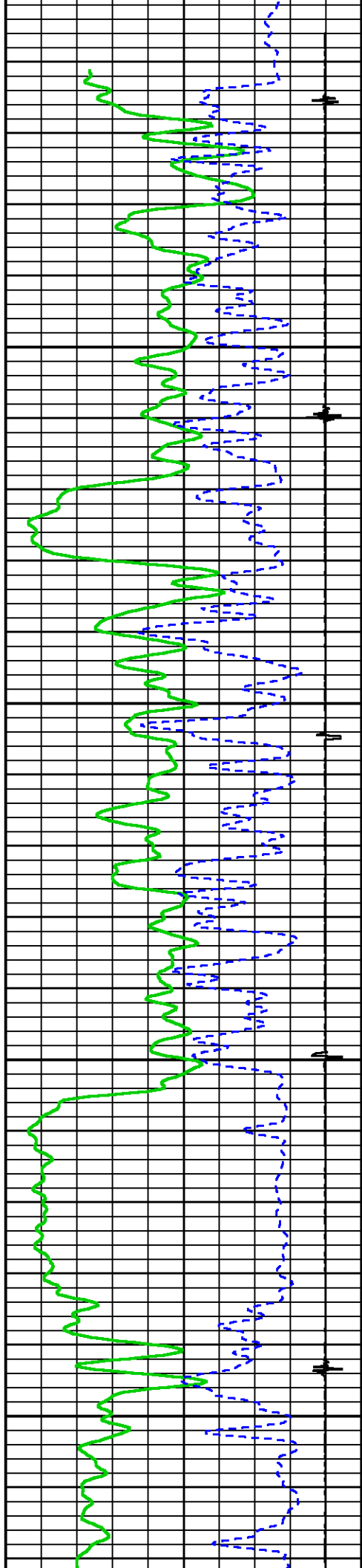
Presentation	: cpu100:BRUTON_19_17E_RAL_REPEAT.fvpdf [5"/100' Scale]
Plot Interval	: 7388.5 - 7728.5 Feet
Data File 1	: F1 : cpu100:/dat1a/LARAMIE_BRUTON_19_17E/BRUTON_19_17E_RAL_RPT.xtf
Created On	: Aug 18 18:27:59 2017
Company	: LARAMIE ENERGY
Well	: BRUTON 19-17E
Field	: MESA
File Interval	: 7387.5 - 7729.75 Feet
OCT	: n012g

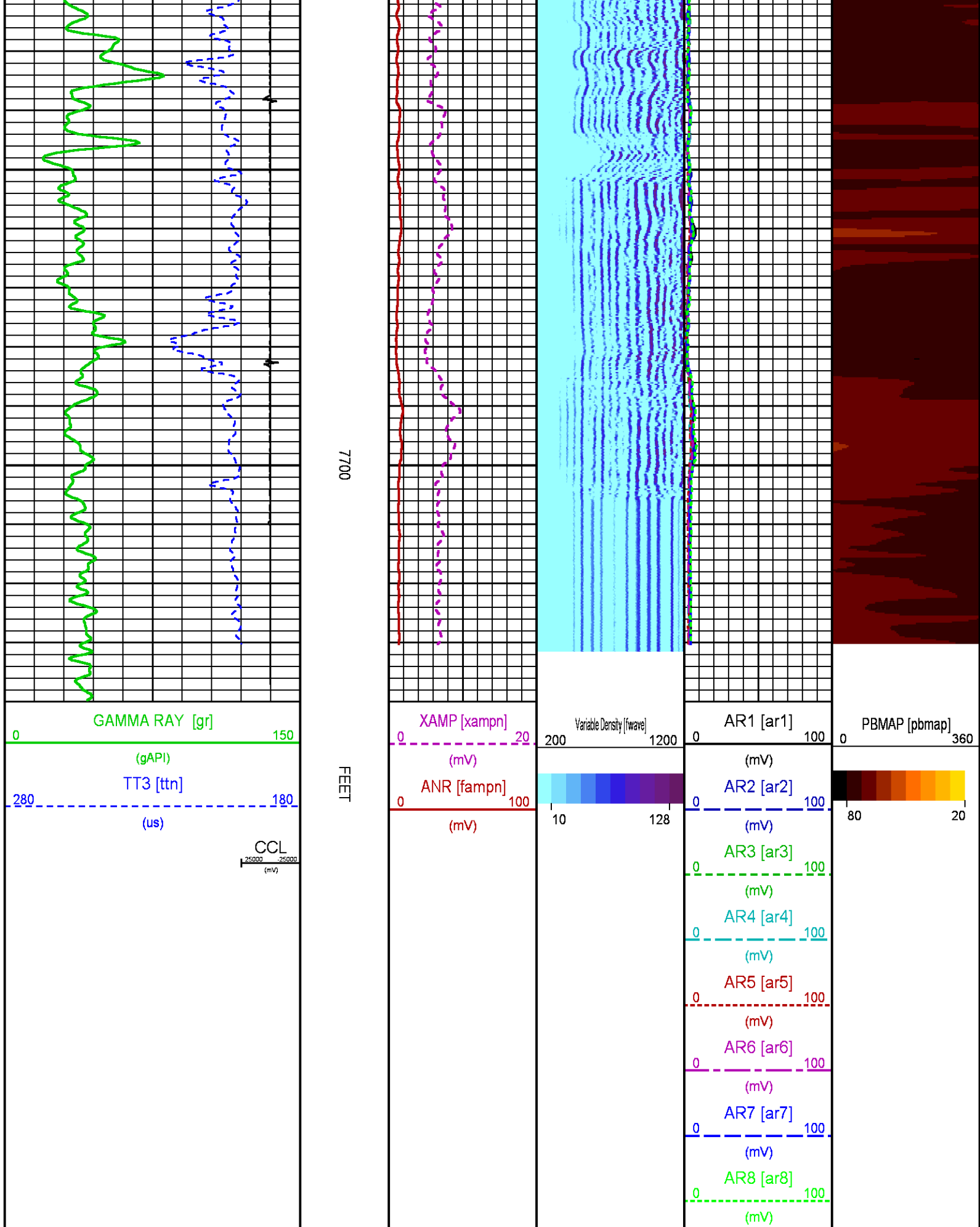




7500

7600





CALIBRATION / VERIFICATION SUMMARY

Source File: Adat1aLARAMIE_BRUTON_19_17Eh012g.tpt

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA10218496 DATE/TIME PERFORMED: Fri Aug 18 15:15:52 2017

UNIT #: 3880TA HL6670

	NEAR (mV)	RADIAL (mV)	FAR (mV)
TARGETS	100.00	100.00	150.00
NEAR	R1	R2	R3
NEAR	R4	R5	R6
NEAR	R7	R8	FAR
NEAR	CAL		
ZERO (mV)	0.04	0.10	-0.04
AMP FLUID (mV)	85	84	83
TT (us)	203	204	204
M FACTOR	1.18	1.19	1.21

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA10218496 DATE/TIME PERFORMED: Fri Aug 18 15:22:13 2017 DAYS SINCE CAL: 0

UNIT #: 3880TA HL6670 CABLE #: HL6670 6670SL

	NEAR (mV)	R1 (mV)	R2 (mV)	R3 (mV)	R4 (mV)	R5 (mV)	R6 (mV)	R7 (mV)	R8 (mV)	FAR (mV)	CAL (mV)
ZERO	0.14	0.10	0.01	0.05	0.07	0.11	0.05	0.18	0.08	0.99	-0.06
AMP AIR	2.76	2.65	2.60	2.98	3.36	3.09	3.36	3.03	2.97	4.60	96.33
SHOP M FACTOR	1.20										
SHOP A FACTOR	0.00										
WIRELINE FACTOR	1.04										

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA12670180 DATE/TIME PERFORMED: Fri Dec 23 11:53:22 2016

UNIT #: 3880TA HL6670 CALB JIG #: 4702NK DA_228

	BACKGROUND (cts)	CALBRTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	75.82	247.07	171.2	0.584	44.28	144.28	100

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1355XA12670180 DATE/TIME PERFORMED: Fri Dec 23 11:54:47 2016

UNIT #: 3880TA HL6670 VERI JIG #: 4702NK DA_228

	BACKGROUND (cts)	CALBRTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	77.11	254.76	0.584	45.03	148.77	103.74

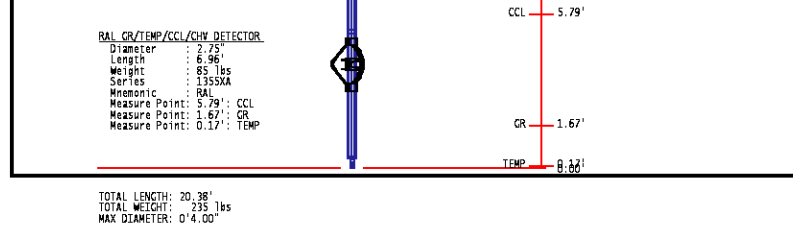
INSTRUMENT CONFIGURATION


Source File: Adat1aLARAMIE_BRUTON_19_17E/RAL.tdg

CABLEHEAD
Diameter : 2.75"
Length : 2.25"
Weight : 10 lbs
Series : CABL234

RADIAL BOND TOOL
Diameter : 2.75"
Length : 11.17"
Weight : 126 lbs
Series : 1426XA
Mnemonic : RAL
Measure Point: 4.21' : NEAR RCVR
Measure Point: 3.25' : FAR RCVR

20.38'
NEAR RCVR : 11.17'
FAR RCVR : 10.21'



	COMPANY	LARAMIE ENERGY		FILE NO:	
	WELL	BRUTON 19-17E			
	FIELD	VEGA		API NO:	
	COUNTY	MESA	STATE	COLORADO	05077103670000
LOCATION:		SHL: LAT:39.255232N;LONG:107.806537W		ELEVATIONS:	
BHL: LAT:39.258531N;LONG:107.807036W		KB 7449 FT		DF 7448 FT	
GL 7425 FT		DATE		18-AUG-2017	
SEC 19 TWP 9S RGE 93W					