



FILE NO: COMPANY LARAMIE ENERGY

WELL GUNDERSON BCU 20-07E

API NO: FIELD VEGA

05077103570000 COUNTY MESA STATE COLORADO

Ver. 4.06 LOCATION: OTHER SERVICES

SHL: LAT:39.266783N; LONG:107.795281W

BHL: LAT:39.265114N; LONG:107.788397W

SEC 20 TWP 9S RGE 93W

PERMANENT DATUM GL ELEVATION 7144 FT

LOG MEASURED FROM KB 30 FT ABOVE P.D.

DRILL. MEAS. FROM KB ELEVATIONS: KB 7176 FT DF 7176 FT GL 7146 FT

DATE 26-AUG-2017

RUN 1 TRIP 1

SERVICE ORDER US126642

DEPTH DRILLER 7909 FT

DEPTH LOGGER 7847 FT

BOTTOM LOGGED INTERVAL 7847 FT

TOP LOGGED INTERVAL 30 FT

TIME STARTED 10:30

TIME FINISHED 13:00

OPERATOR RIG TIME 2.5 HOURS

TYPE OF FLUID IN HOLE WATER

FLUID DENSITY NA

FLUID SALINITY NA

FLUID LEVEL 53 FT

LOGGED CEMENT TOP 1569 FT

WELLHEAD PRESSURE 0 PSI

MAXIMUM HOLE DEVIATION NA

NOMINAL LOGGING SPEED 100 F/MN

MAX. RECORDED TEMP. 245 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: 5991' - 6010'

SJ: 6993' - 7011'

CREW: D.HUTCHINSON, J.PENA

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	RAL	1426XA	10218496	CENTRALIZED
1	1	GAMMA RAY	1355XA	12670180	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 26 22:58:53 2017

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/LARAMIE_GUNDERSON_20_07E/n012g02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 5.500 ft BOTTOM DEPTH: 7847.750 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*)	-62	us	TOP	728.750
		-61	us	728.750	729.500
		-60	us	729.500	1215.000
		-59	us	1215.000	1873.250
		-60	us	1873.250	1879.250
		-59	us	1879.250	BOTTOM
	TOOL DELAY (str2*)	-62	us	TOP	728.750
		-61	us	728.750	729.500
		-60	us	729.500	1215.000
		-59	us	1215.000	1873.250
		-60	us	1873.250	1879.250
		-59	us	1879.250	BOTTOM
	TOOL DELAY (str3*)	-62	us	TOP	728.750
		-61	us	728.750	729.500
		-60	us	729.500	1215.000
		-59	us	1215.000	1873.250
		-60	us	1873.250	1879.250
		-59	us	1879.250	BOTTOM
	TOOL DELAY (str4*)	-62	us	TOP	728.750
		-61	us	728.750	729.500
		-60	us	729.500	1215.000
		-59	us	1215.000	1873.250
		-60	us	1873.250	1879.250
		-59	us	1879.250	BOTTOM
	TOOL DELAY (str5*)	-62	us	TOP	728.750
		-61	us	728.750	729.500
		-60	us	729.500	1215.000
		-59	us	1215.000	1873.250
		-60	us	1873.250	1879.250
		-59	us	1879.250	BOTTOM
	TOOL DELAY (str6*)	-62	us	TOP	728.750

		-61	us	728.750	729.500
		-60	us	729.500	1215.000
		-59	us	1215.000	1873.250
		-60	us	1873.250	1879.250
		-59	us	1879.250	BOTTOM
	TOOL DELAY (str7*)	-62	us	TOP	728.750
		-61	us	728.750	729.500
		-60	us	729.500	1215.000
		-59	us	1215.000	1873.250
		-60	us	1873.250	1879.250
		-59	us	1879.250	BOTTOM
	TOOL DELAY (str8*)	-62	us	TOP	728.750
		-61	us	728.750	729.500
		-60	us	729.500	1215.000
		-59	us	1215.000	1873.250
		-60	us	1873.250	1879.250
		-59	us	1879.250	BOTTOM
	TOOL DELAY (strn*)	-62	us	TOP	728.750
		-61	us	728.750	729.500
		-60	us	729.500	1215.000
		-59	us	1215.000	1873.250
		-60	us	1873.250	1879.250
		-59	us	1879.250	BOTTOM
BASLINE NOISE (NEAR)	NOISE WINDOW START	125	us	TOP	BOTTOM
	NOISE WINDOW LENGTH	25	us	"	"

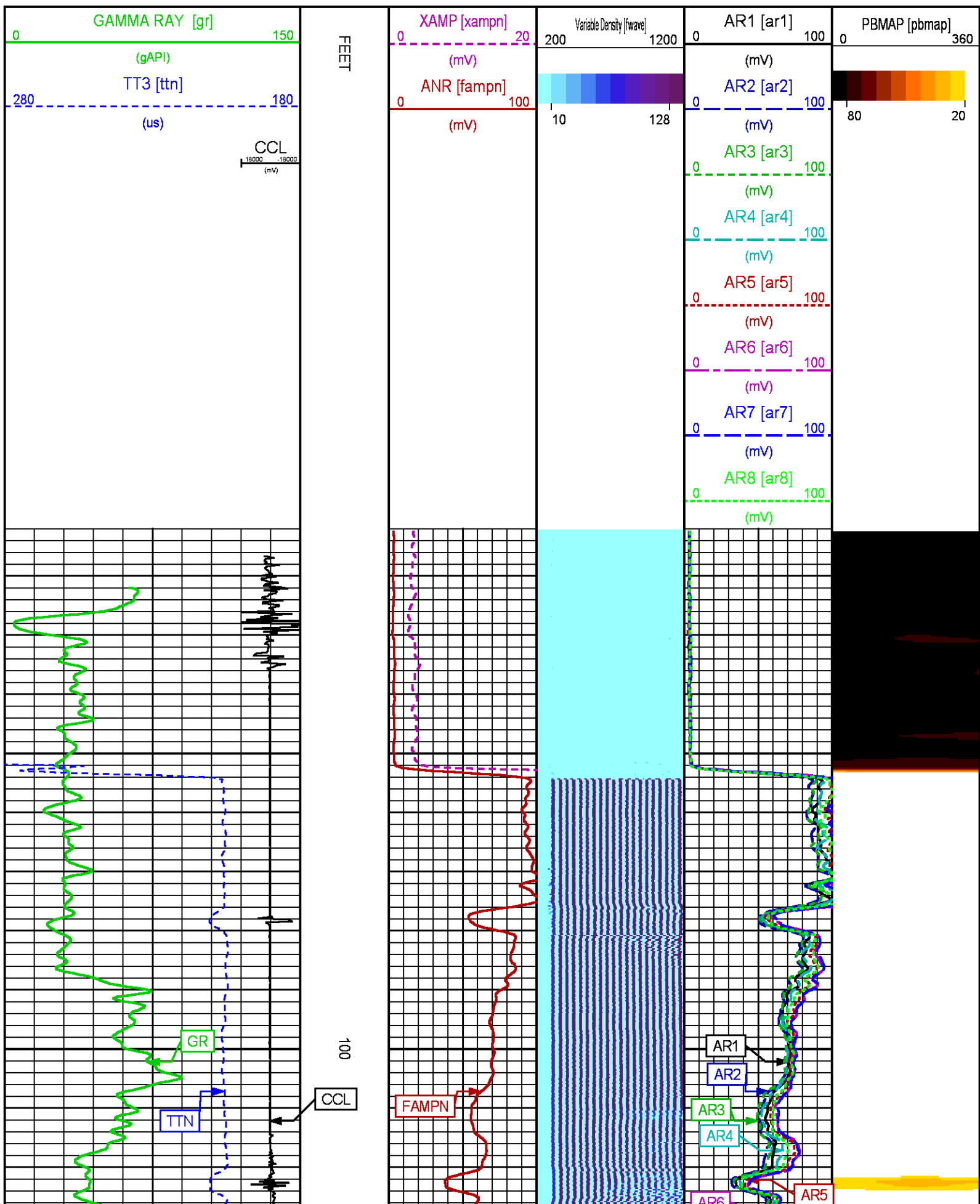
PERCENT BOND CEMENT MAP					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"
	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"
	FREE AMP REC 5	80	mV	"	"
	FREE AMP REC 6	80	mV	"	"
	FREE AMP REC 7	80	mV	"	"
	FREE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

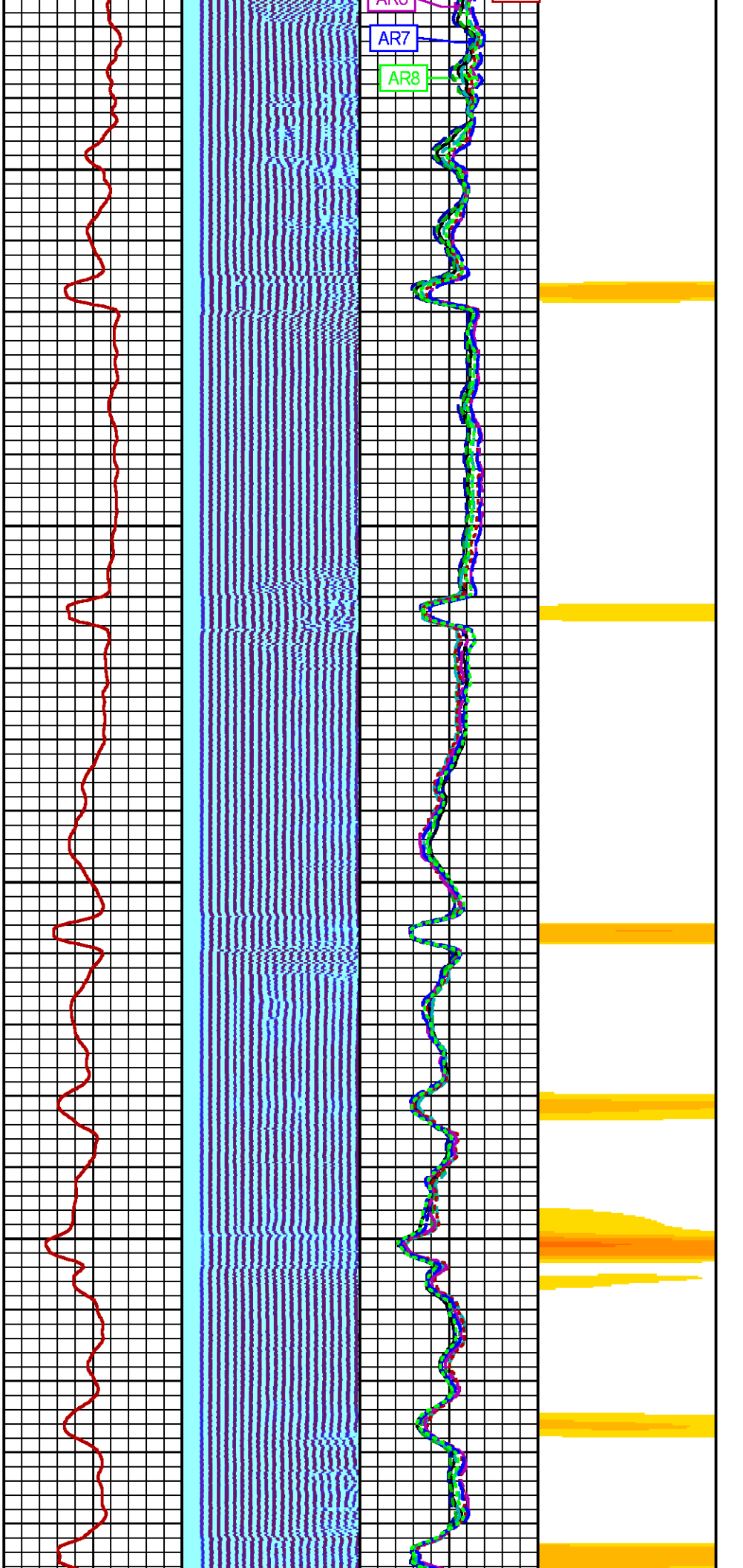
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Aug 26 12:18:29 2017	FIXED GATE AMPLITUDE T-R1
F1:AR2	Aug 26 12:18:29 2017	FIXED GATE AMPLITUDE T-R2
F1:AR3	Aug 26 12:18:29 2017	FIXED GATE AMPLITUDE T-R3
F1:AR4	Aug 26 12:18:29 2017	FIXED GATE AMPLITUDE T-R4
F1:AR5	Aug 26 12:18:29 2017	FIXED GATE AMPLITUDE T-R5
F1:AR6	Aug 26 12:18:29 2017	FIXED GATE AMPLITUDE T-R6
F1:AR7	Aug 26 12:18:29 2017	FIXED GATE AMPLITUDE T-R7
F1:AR8	Aug 26 12:18:29 2017	FIXED GATE AMPLITUDE T-R8
F1:CCL	Aug 26 12:18:29 2017	CASING COLLAR LOCATOR
F1:FAMPN	Aug 26 12:18:29 2017	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Aug 26 12:18:29 2017	FAR WAVE FORM
F1:GR	Aug 26 12:18:29 2017	GAMMA RAY
F1:PBMAP	Aug 26 12:18:29 2017	PERCENT BOND CEMENT MAP
F1:TTN	Aug 26 12:18:29 2017	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Aug 26 12:18:29 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_GUNDERSON_20_07E/GUNDERSON_20_07E_RAL_MAIN.fvpdf [5"/100' Scale]
Plot Interval	: 12.25 - 7863.5 Feet
Data File 1	: F1 : cpu100:/dat1a/LARAMIE_GUNDERSON_20_07E/GUNDERSON_20_07E_RAL_MAIN.xtf
Created On	: Aug 26 12:18:29 2017

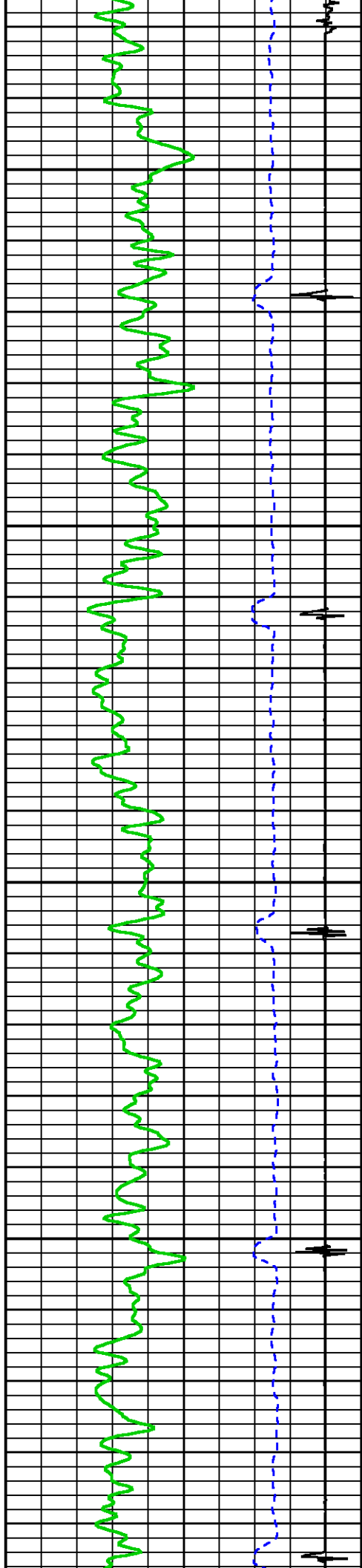
Company : LARAMIE ENERGY
Well : GUNDERSON 20-08E
Field : VEGA
File Interval : 11.25 - 7864.75 Feet
OCT : n012g

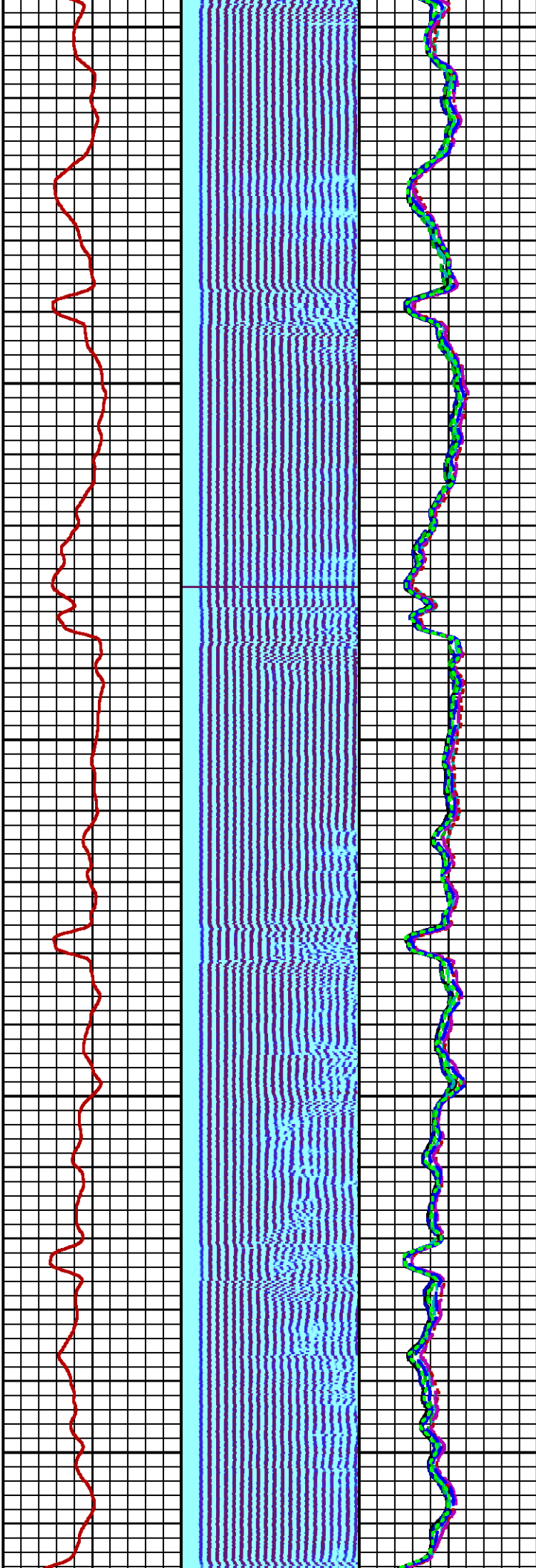
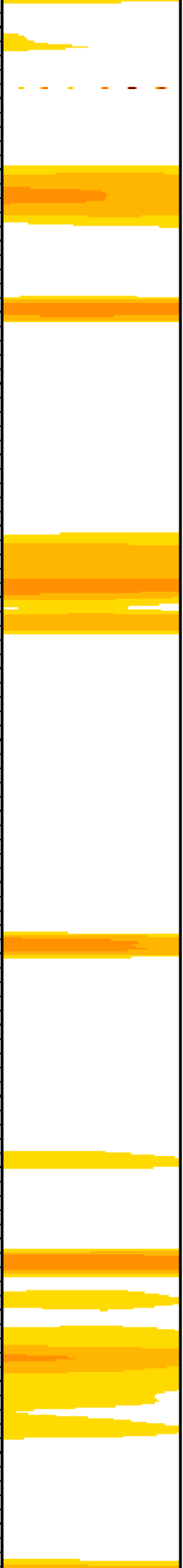




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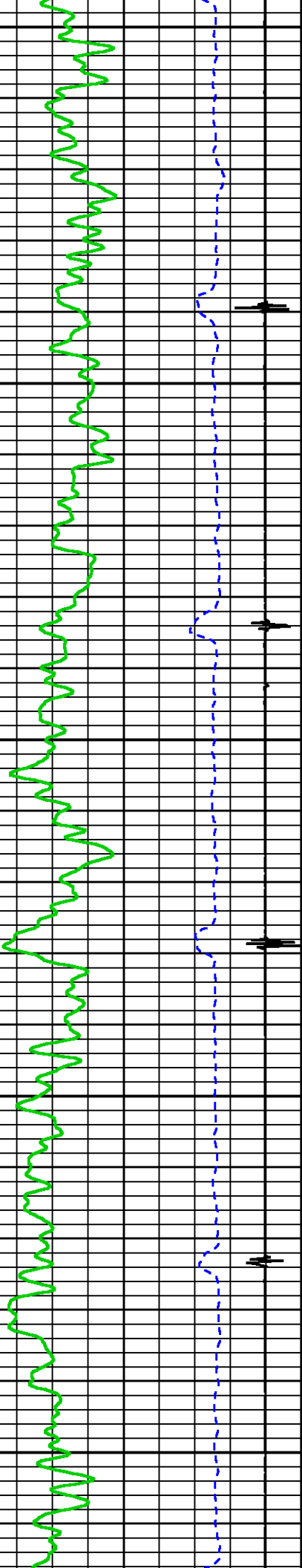
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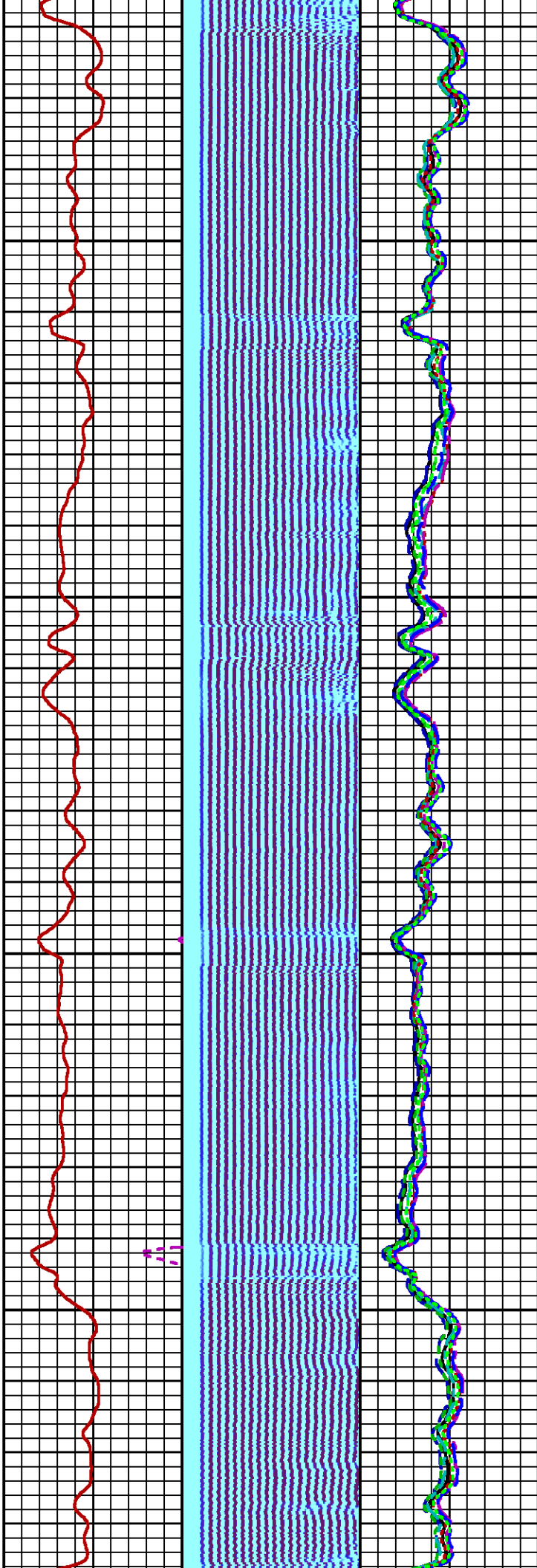




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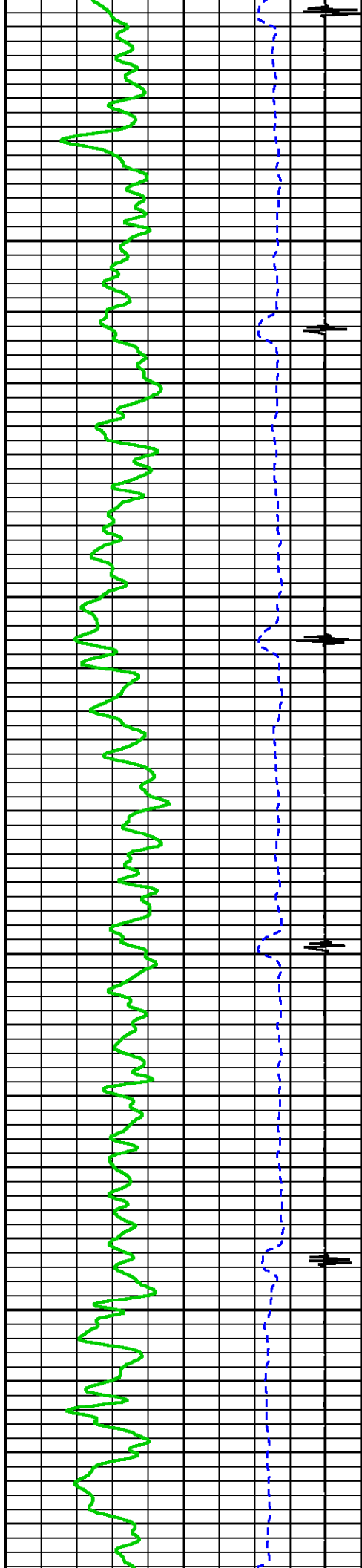
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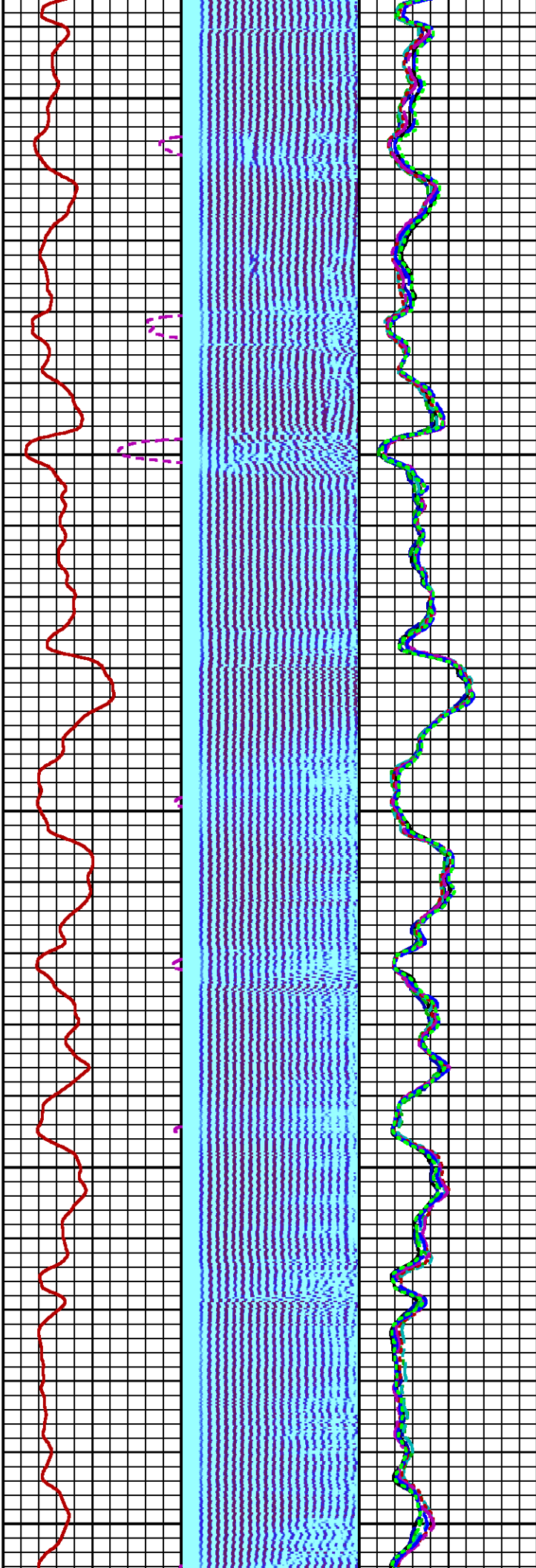




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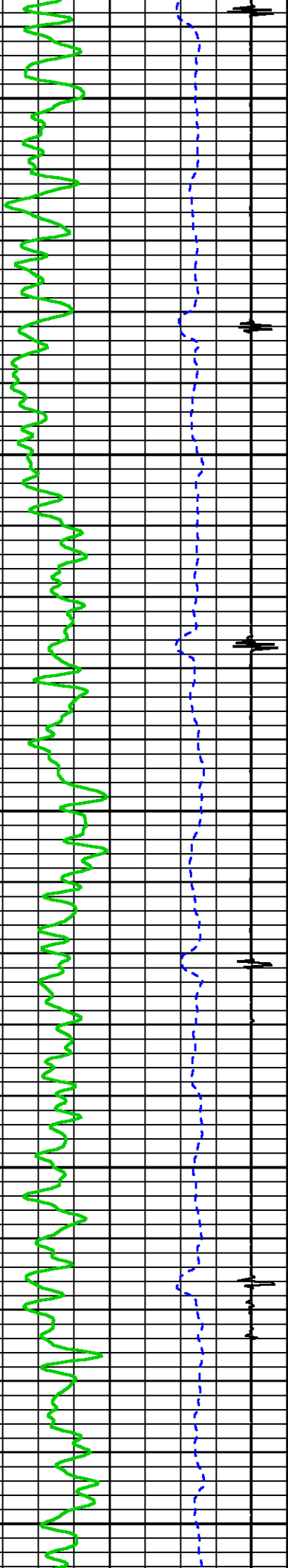


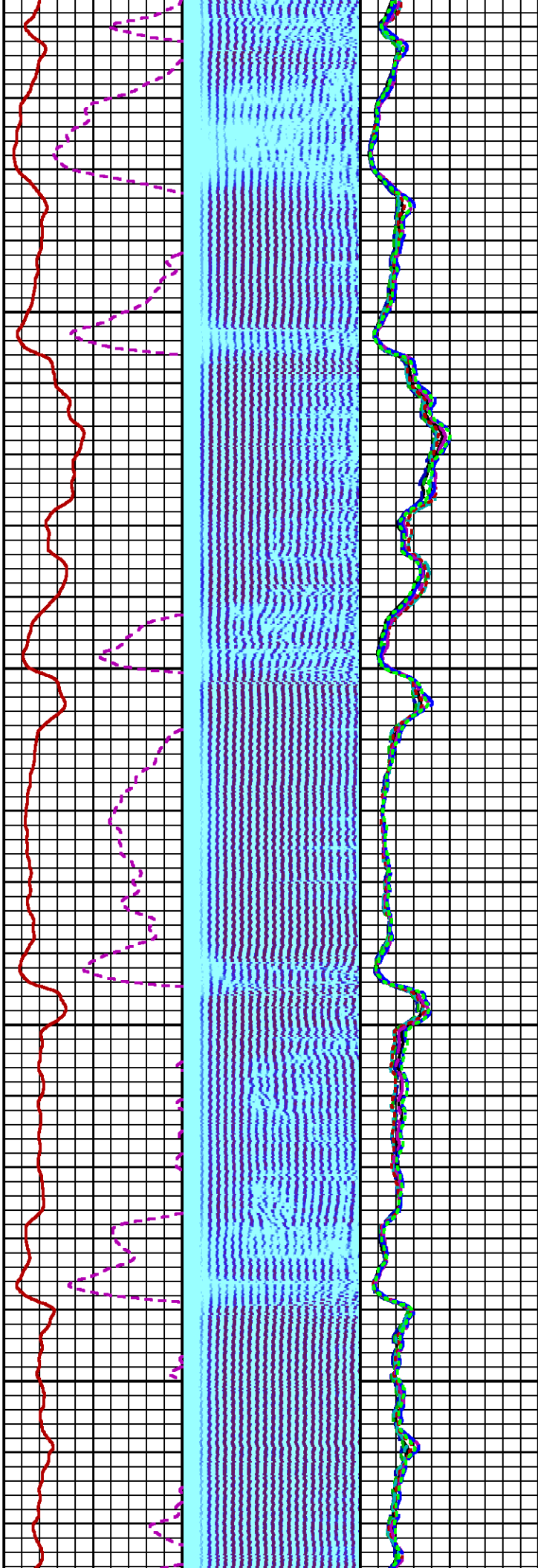


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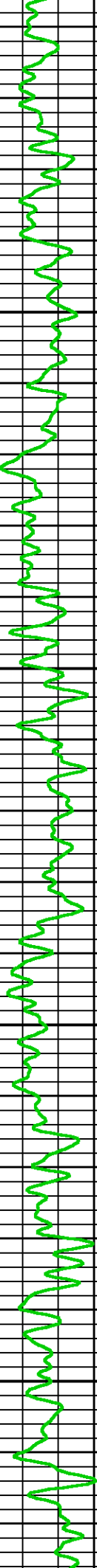
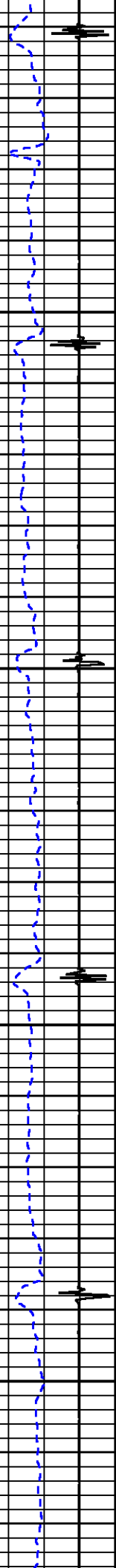
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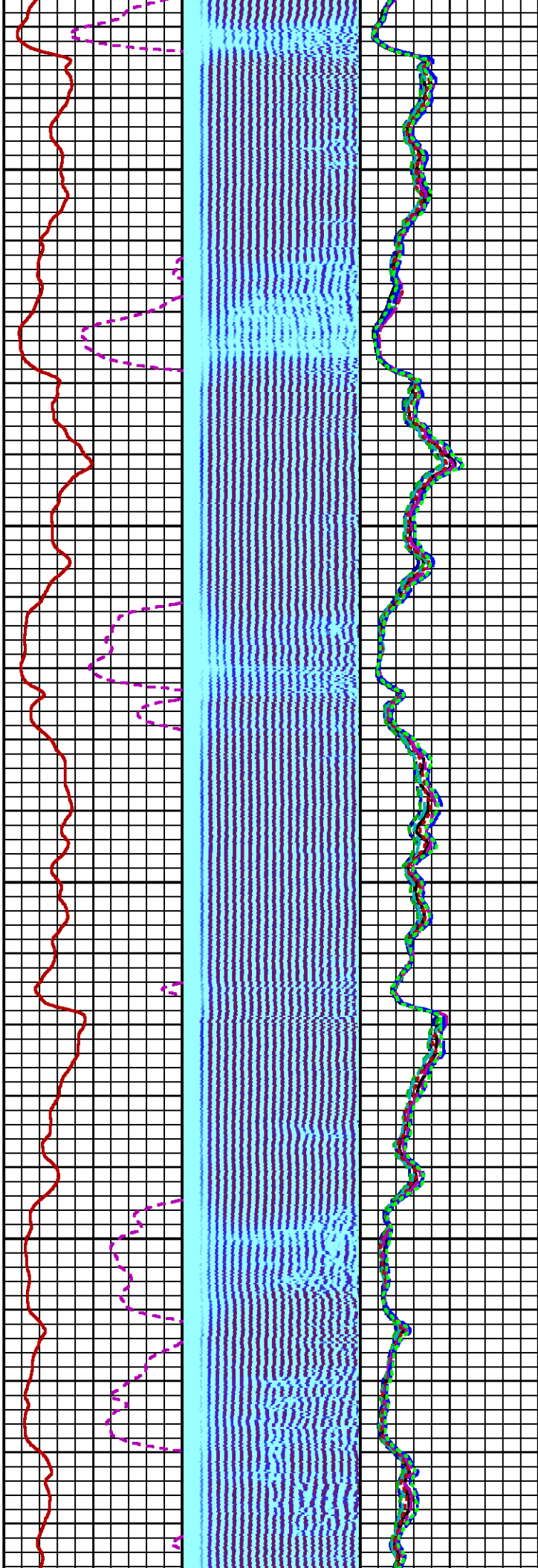
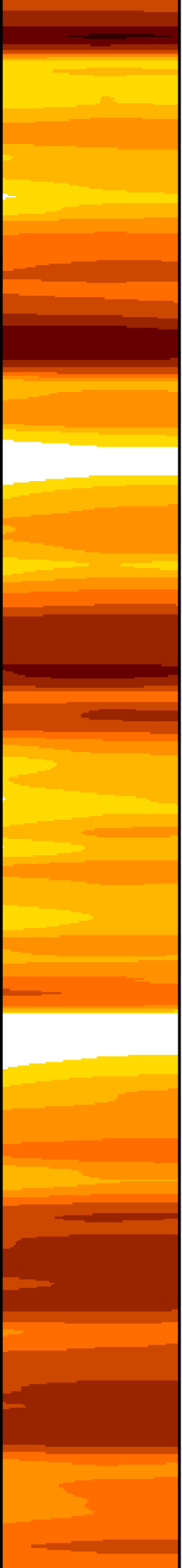




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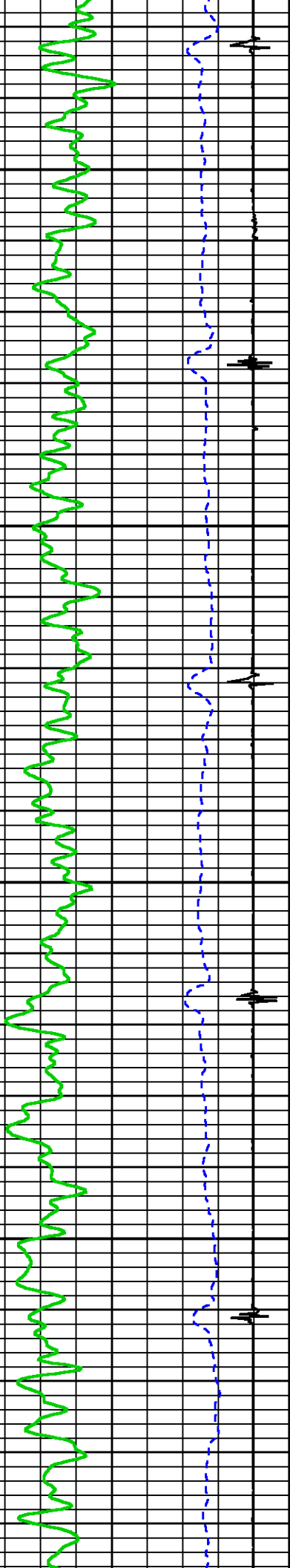
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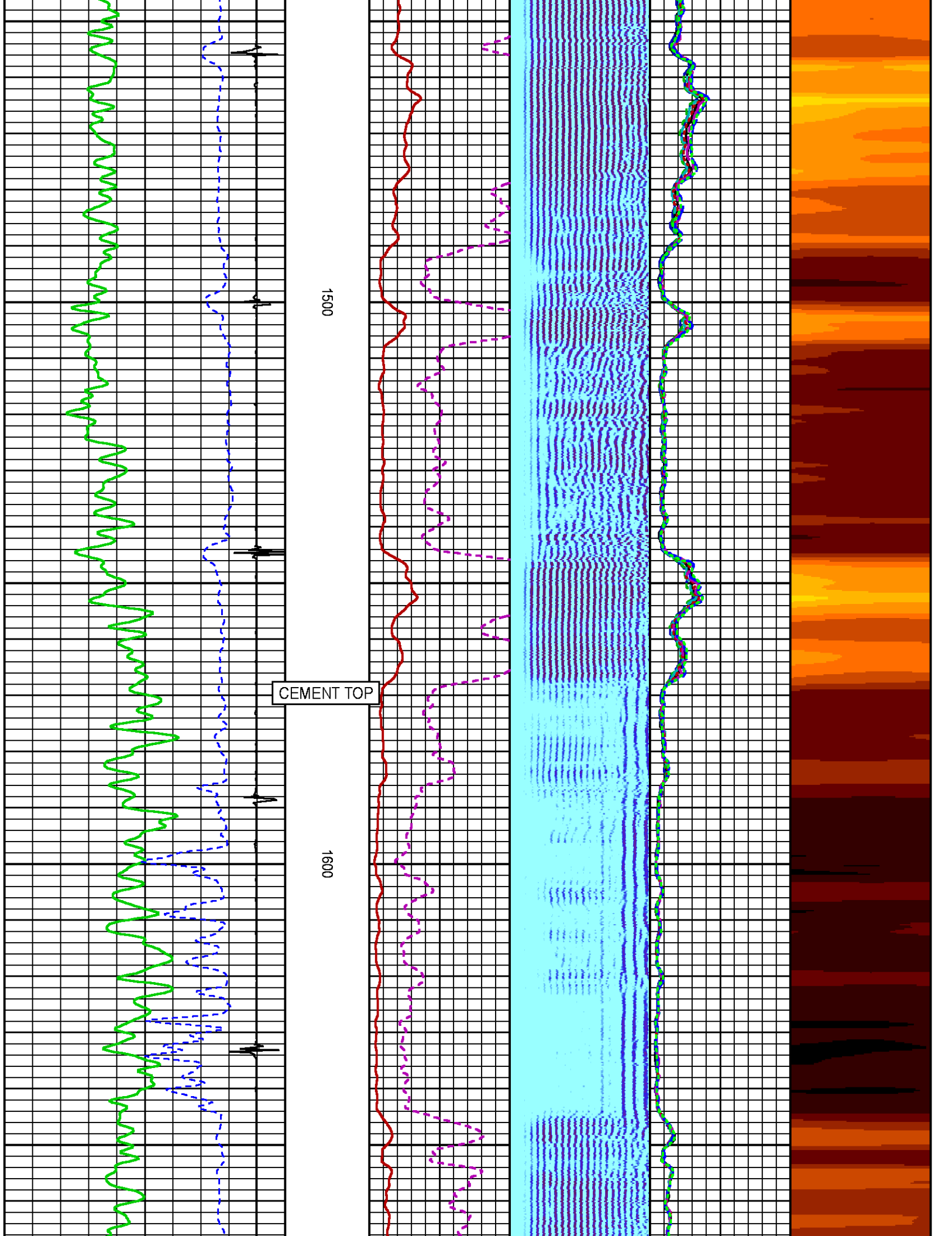


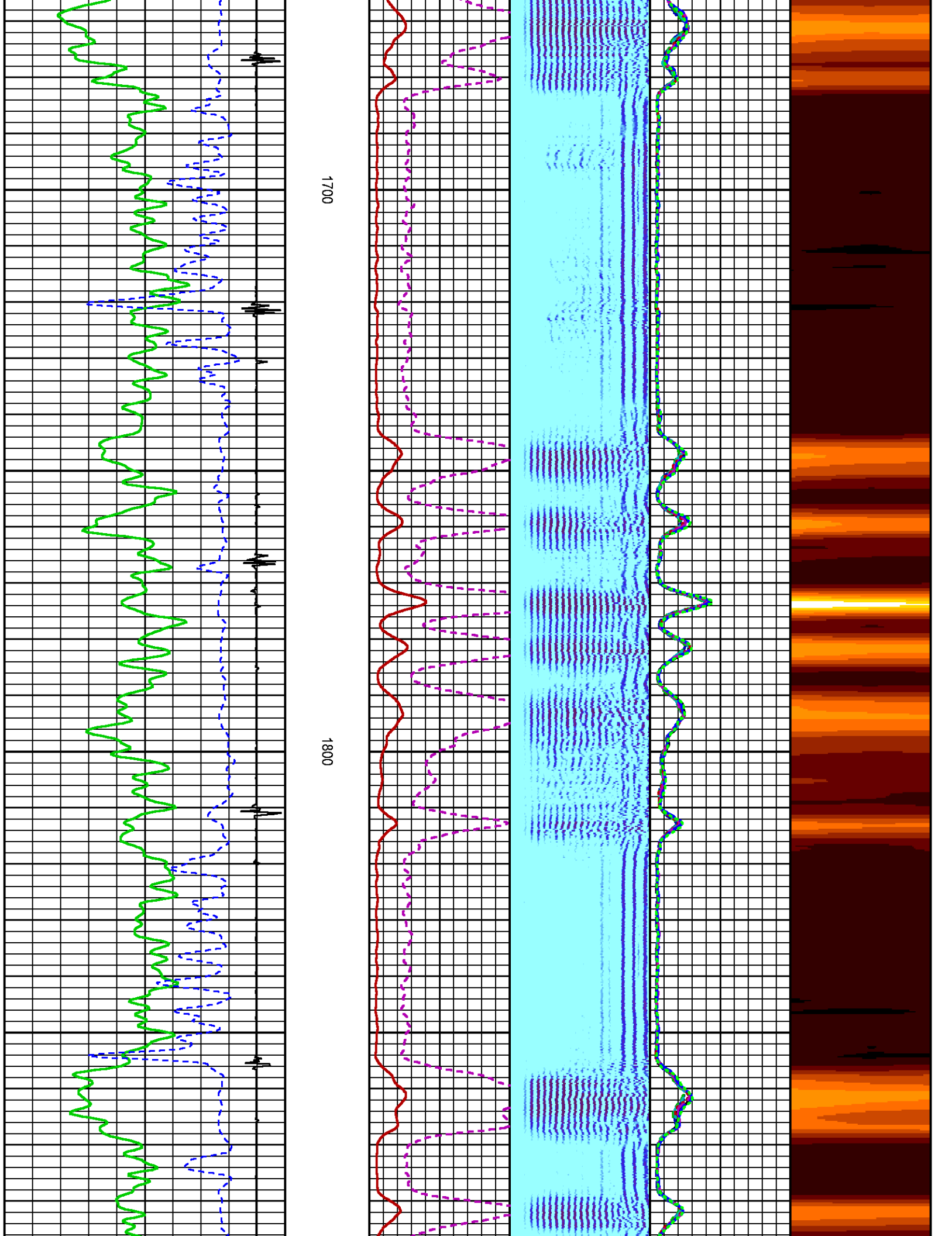


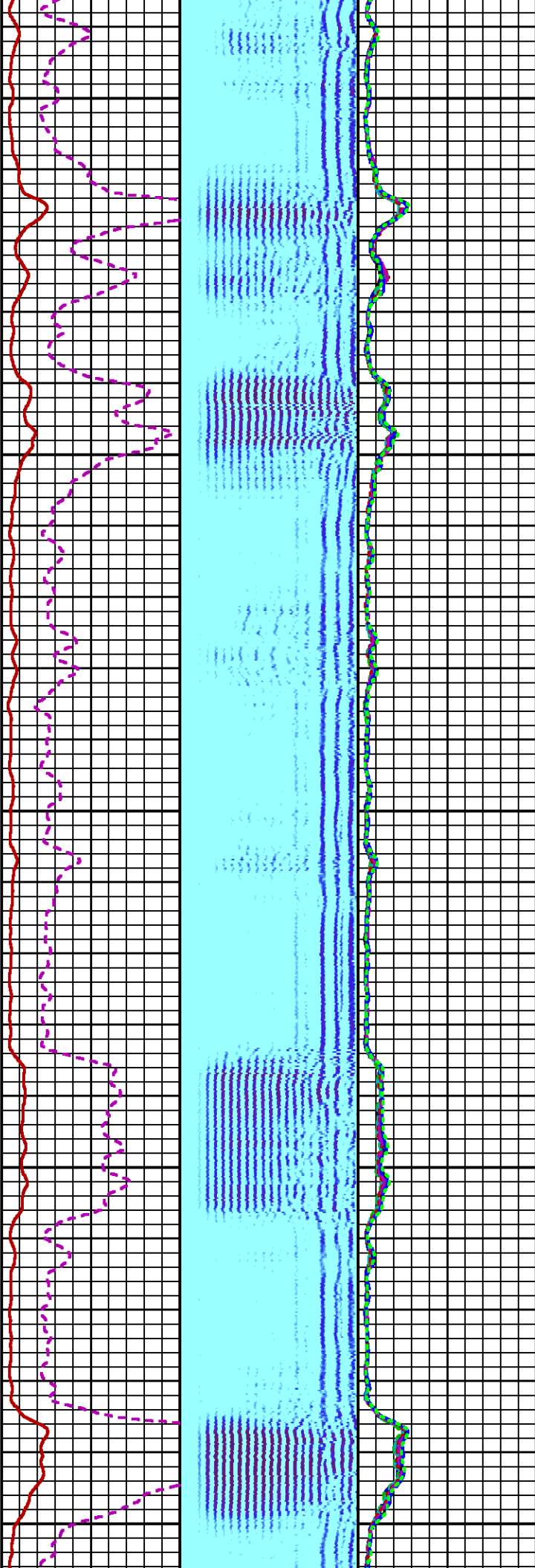
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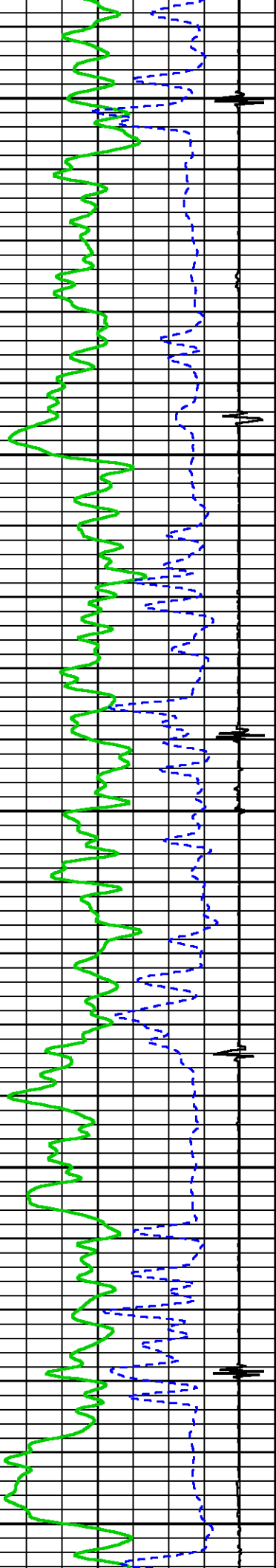


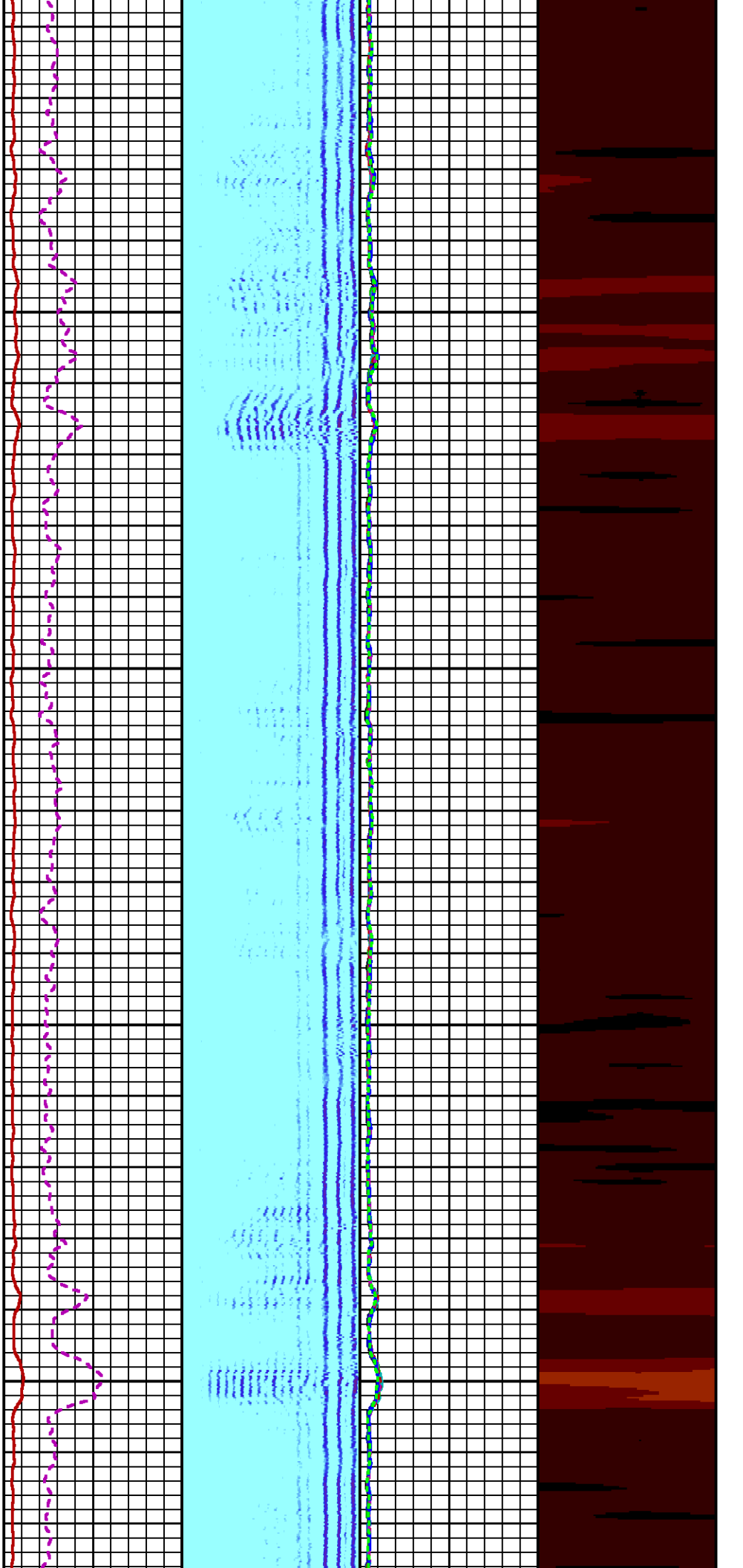


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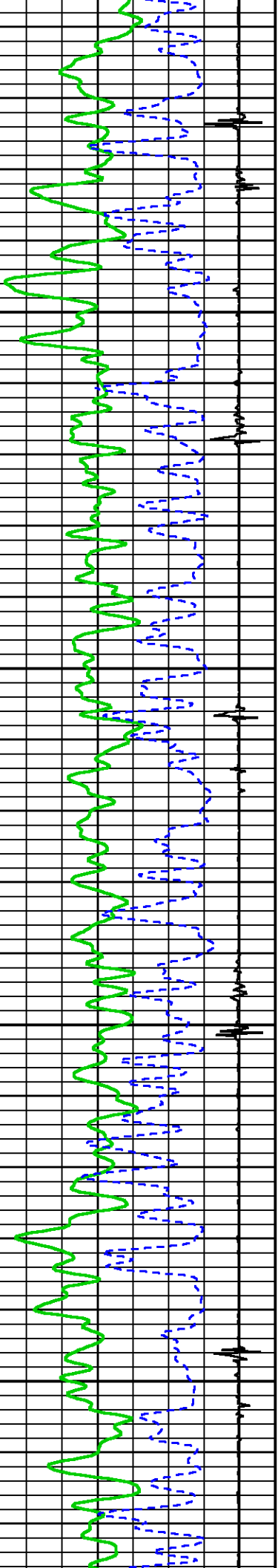
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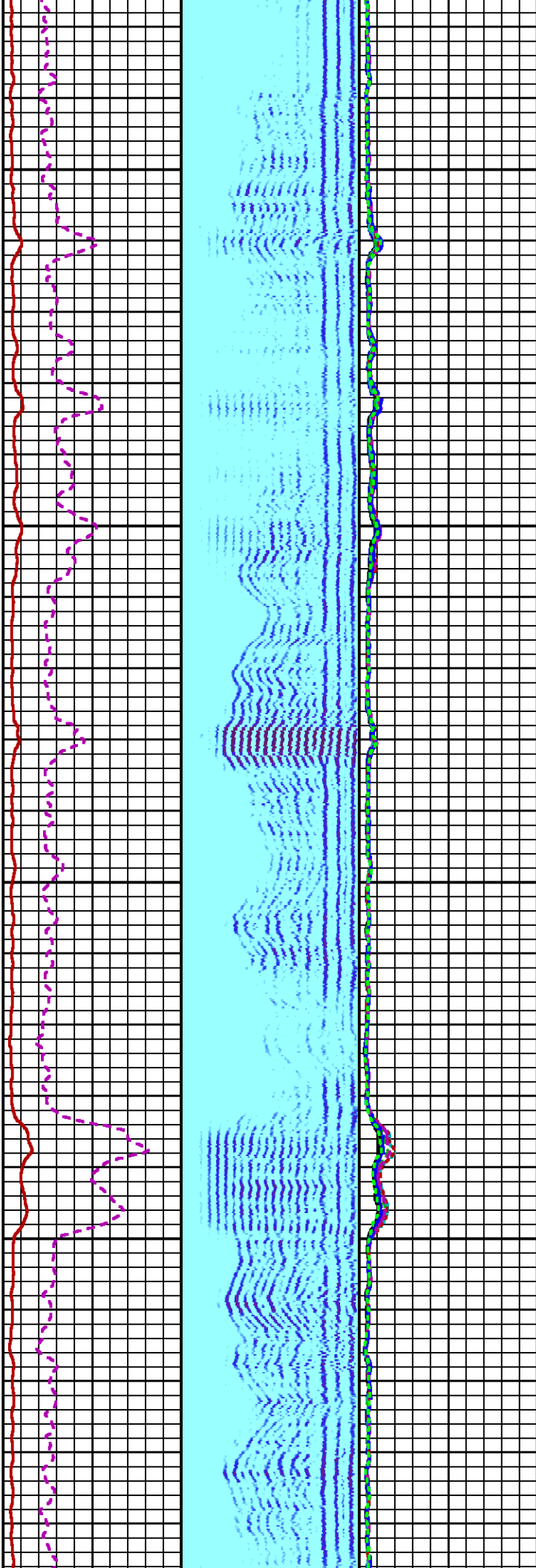




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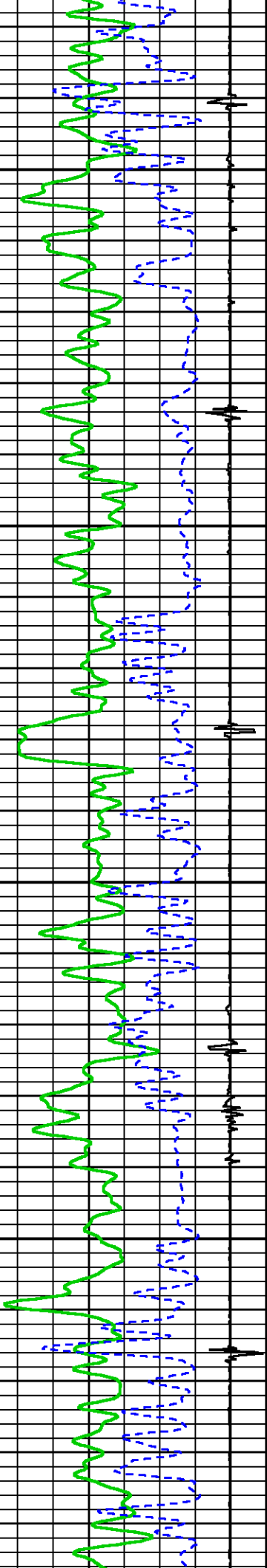
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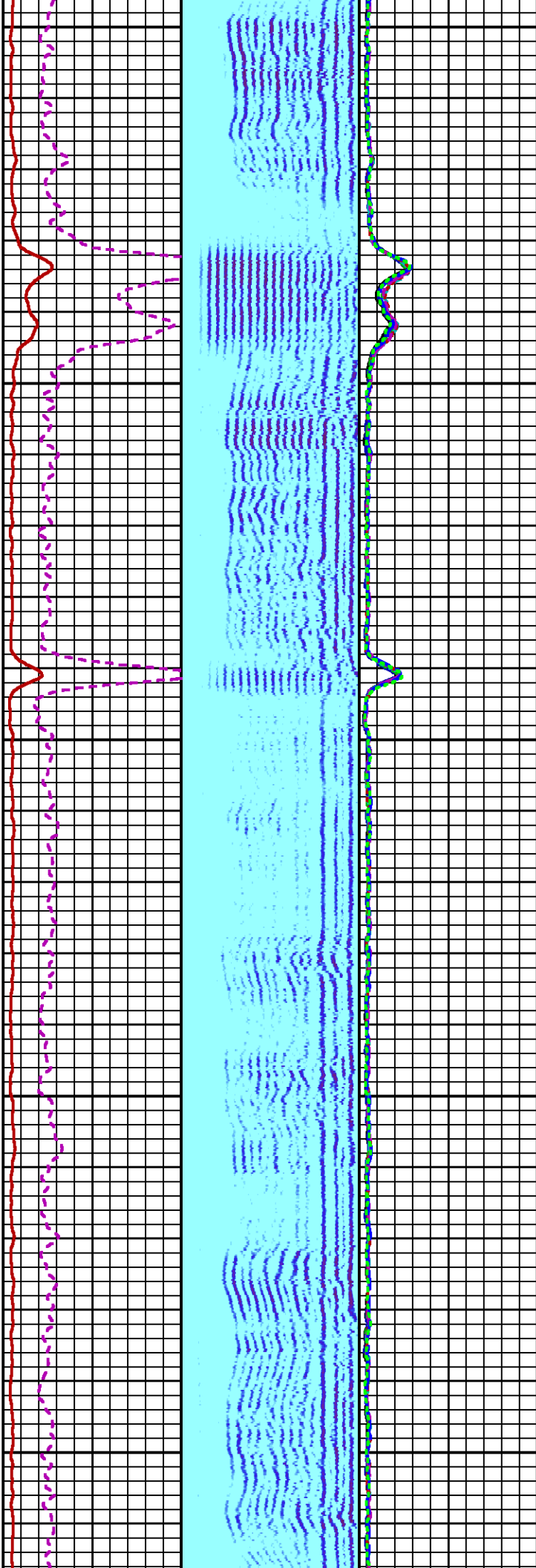
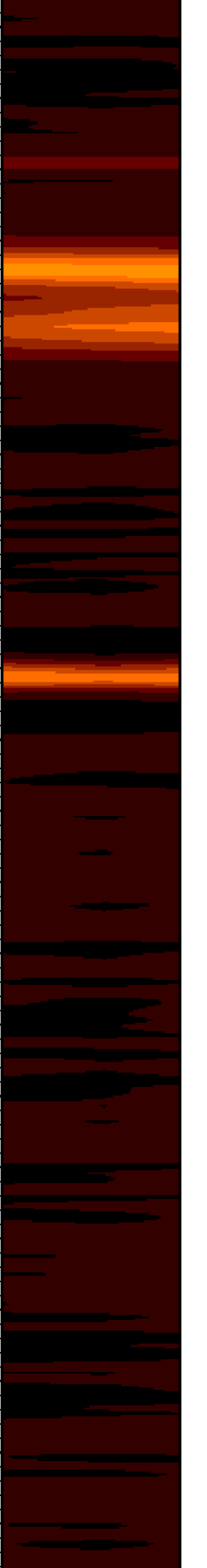




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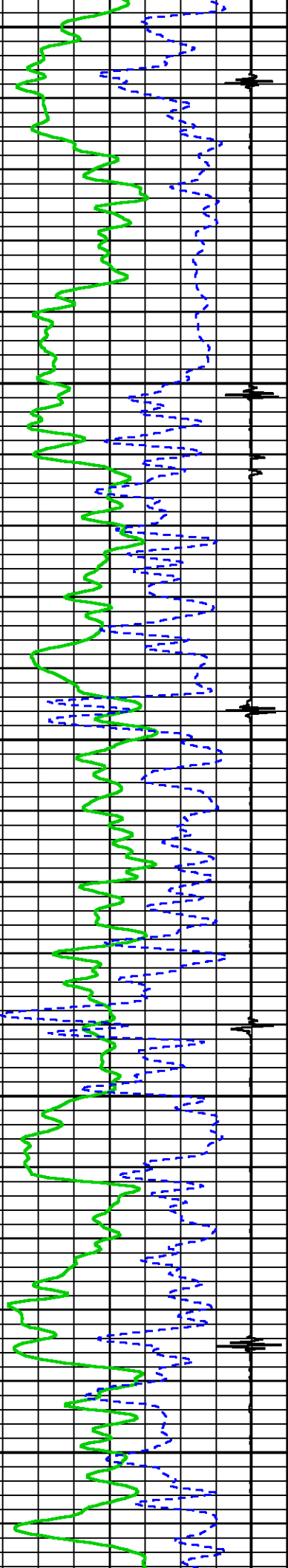
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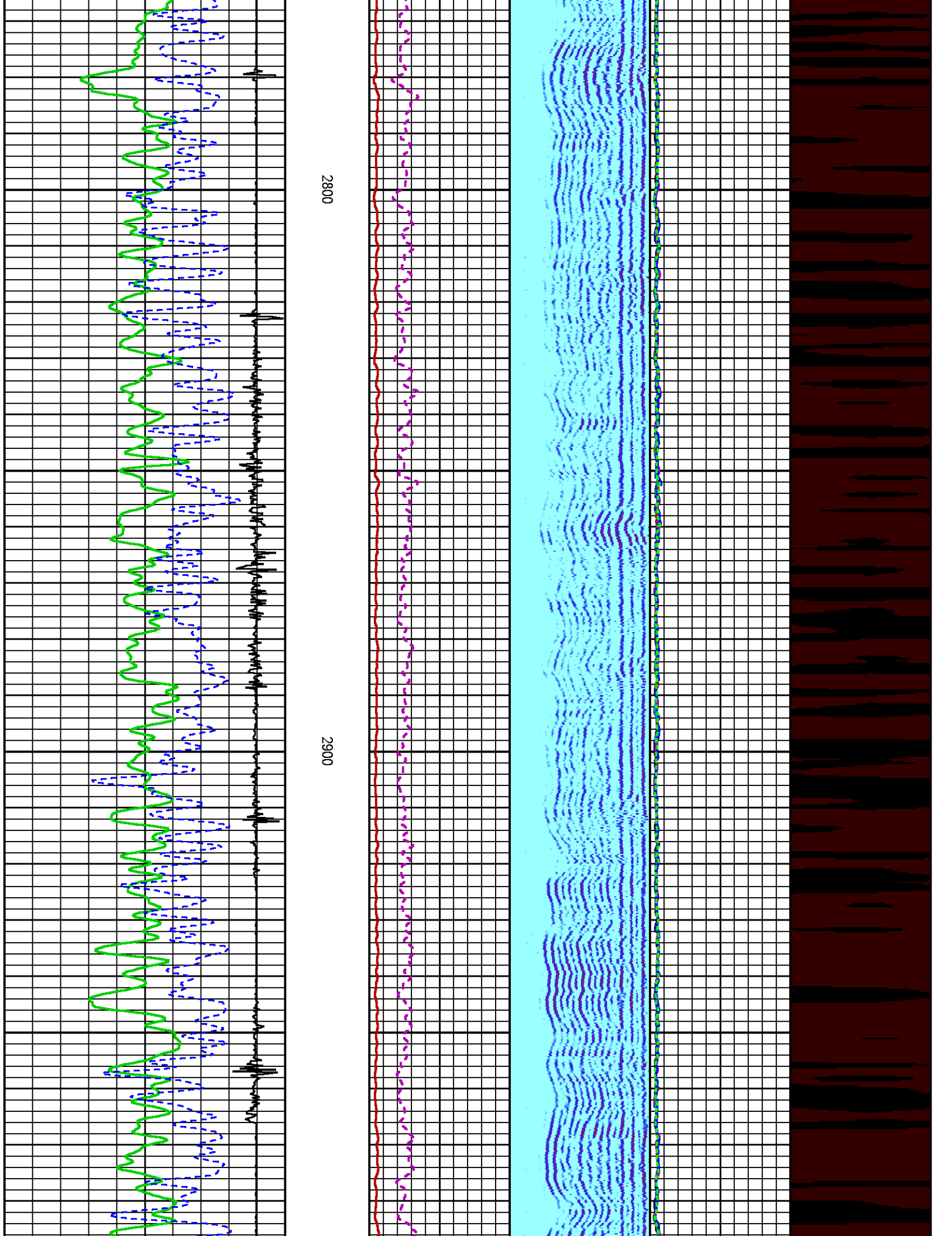


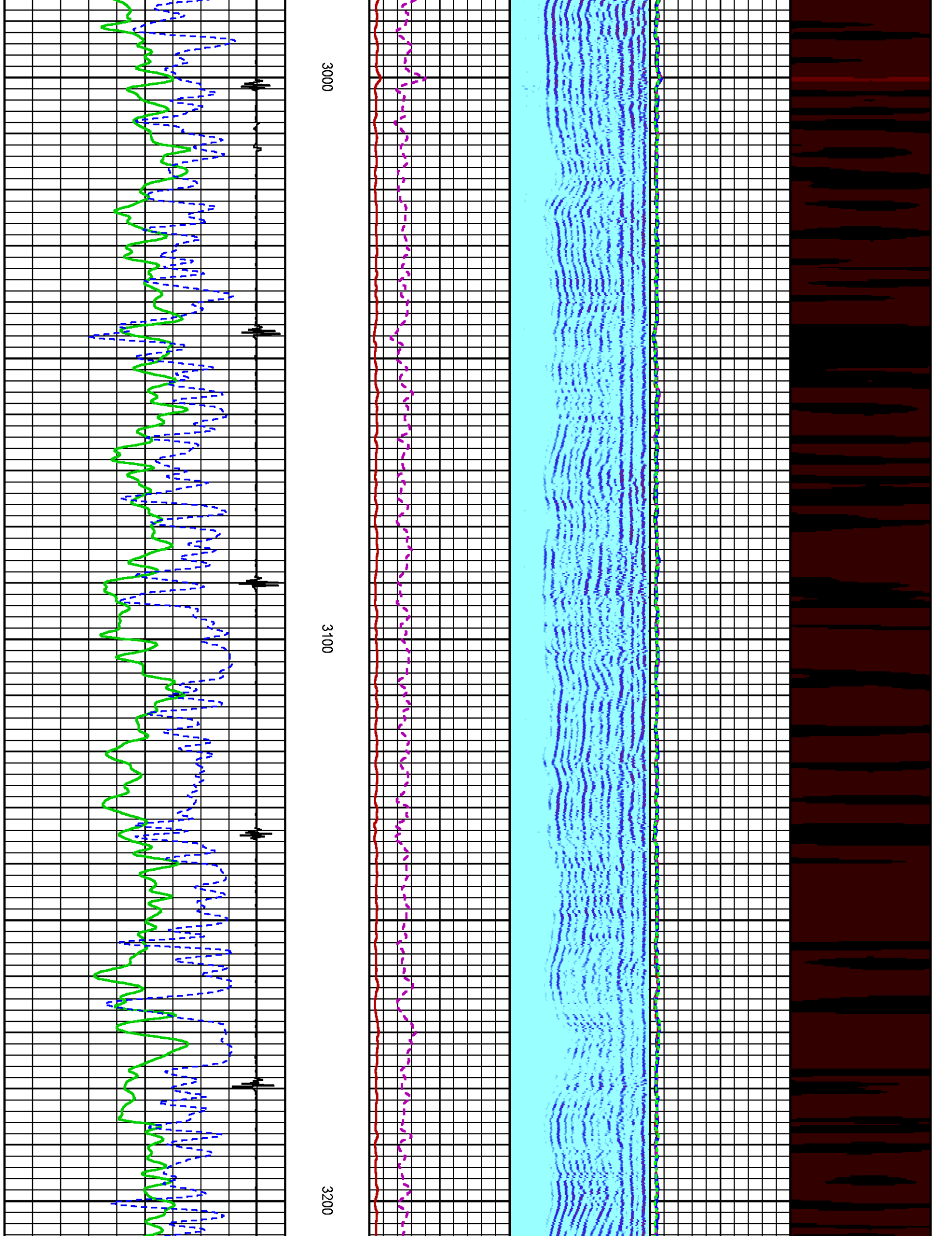


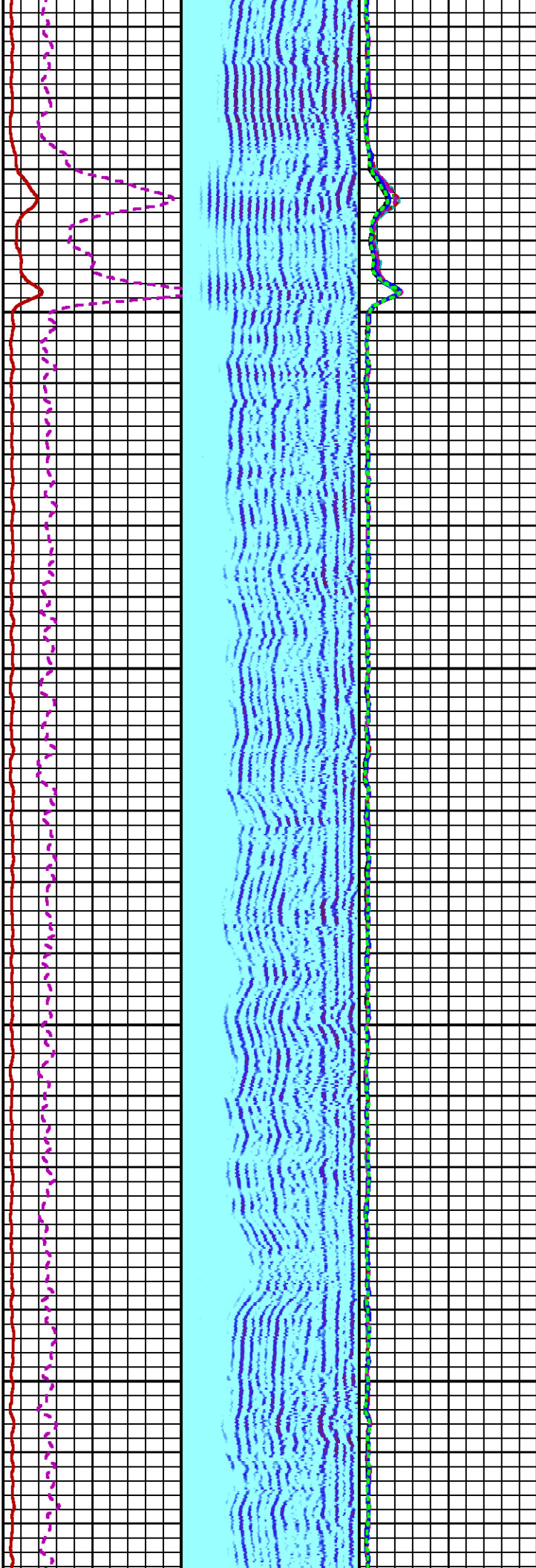
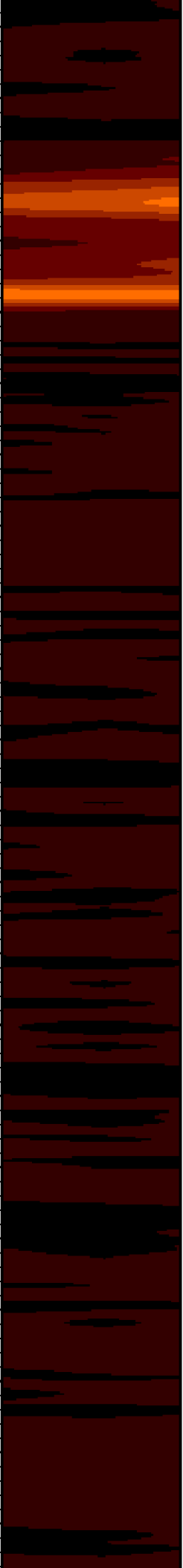
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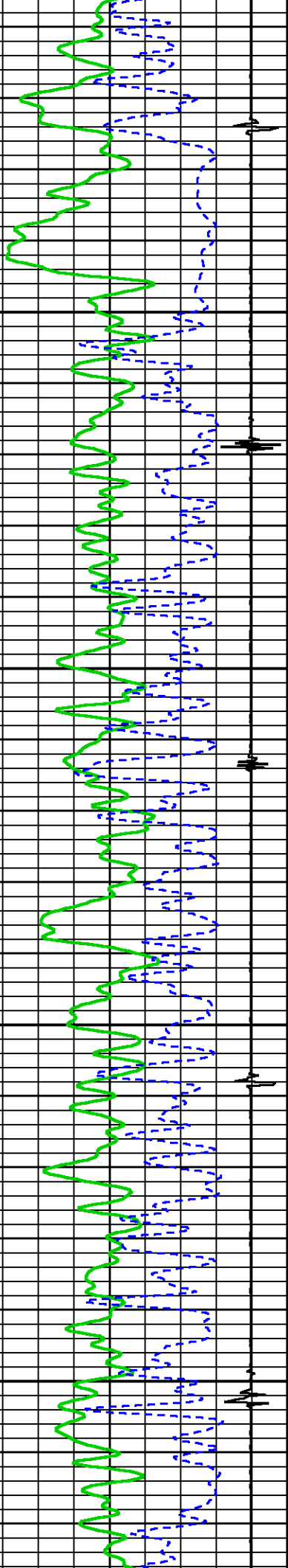


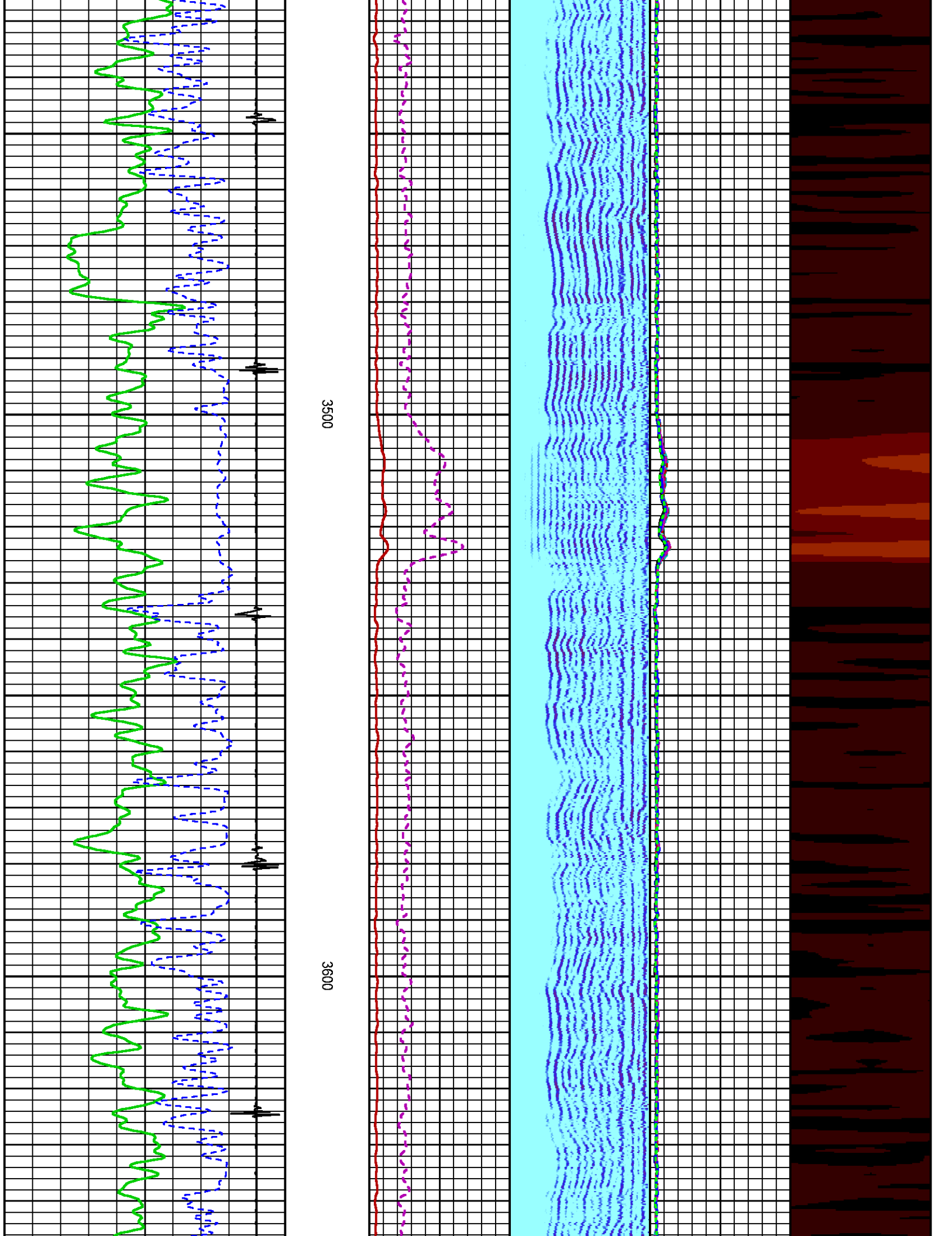


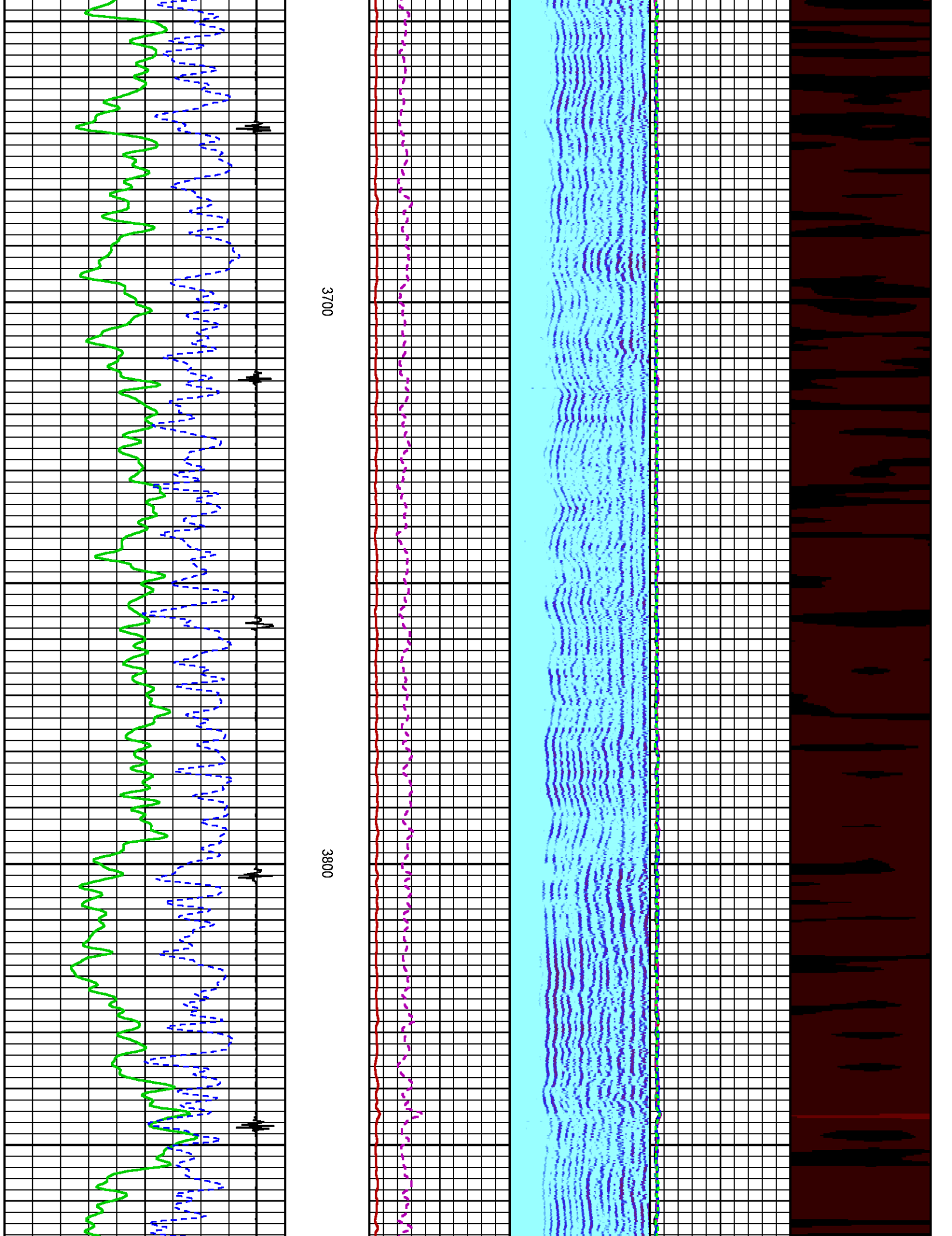


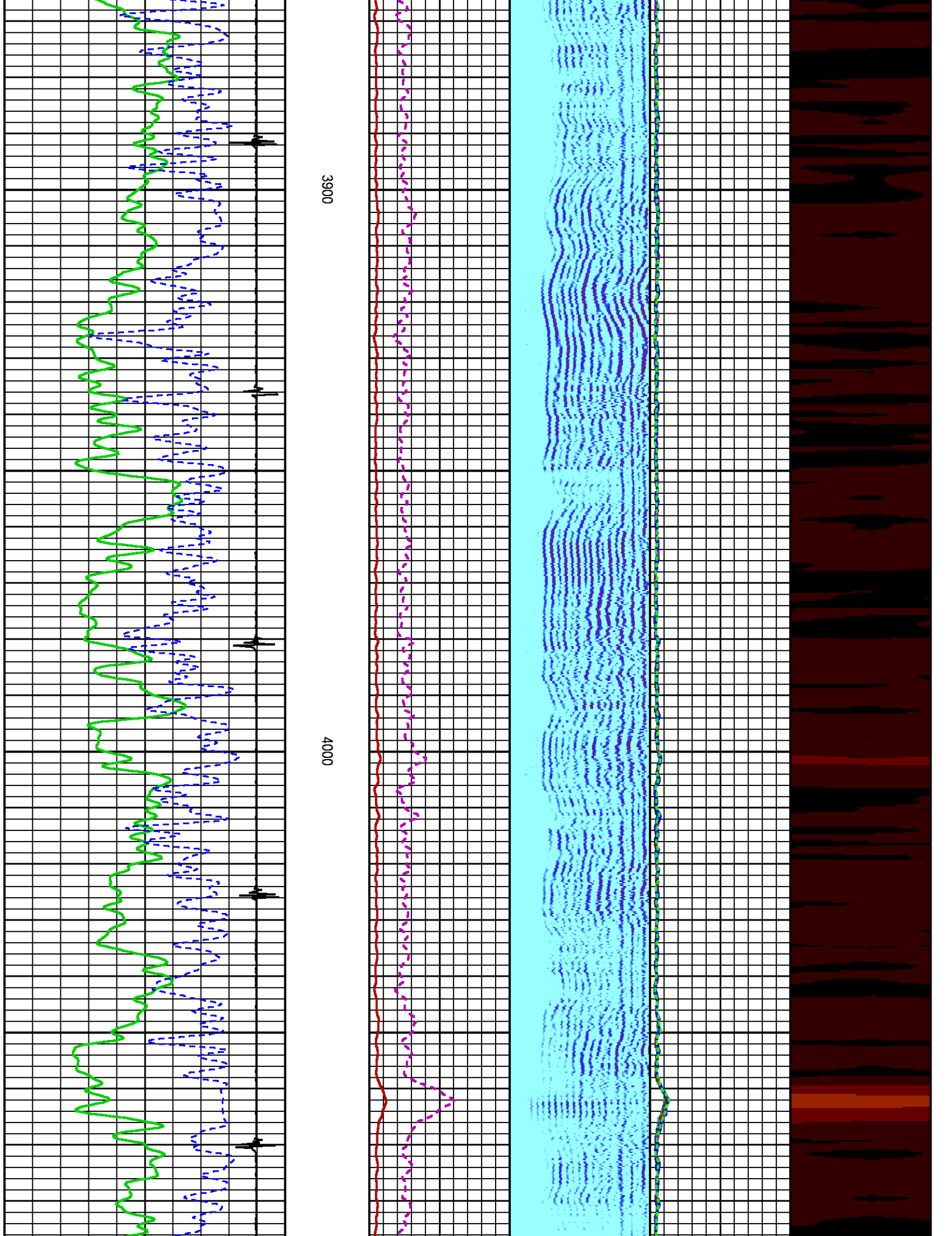
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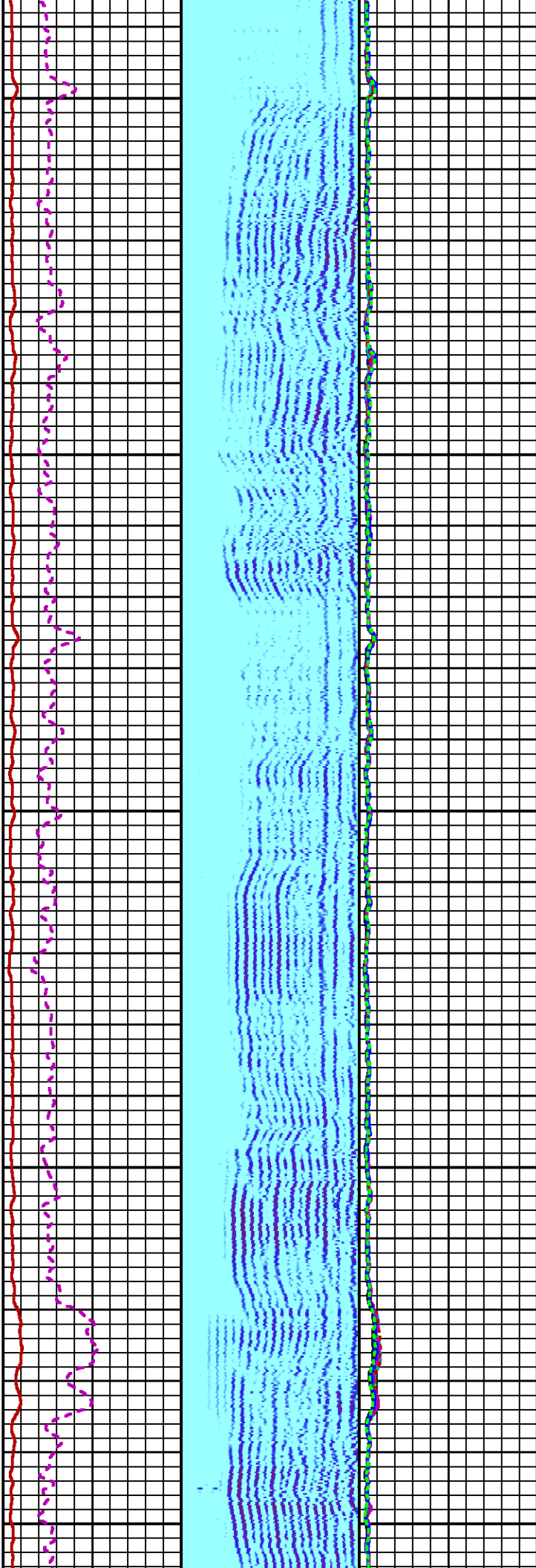
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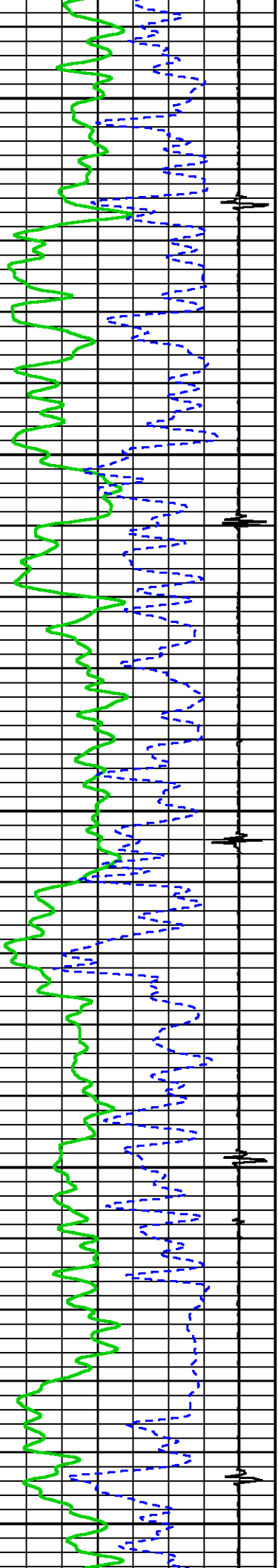


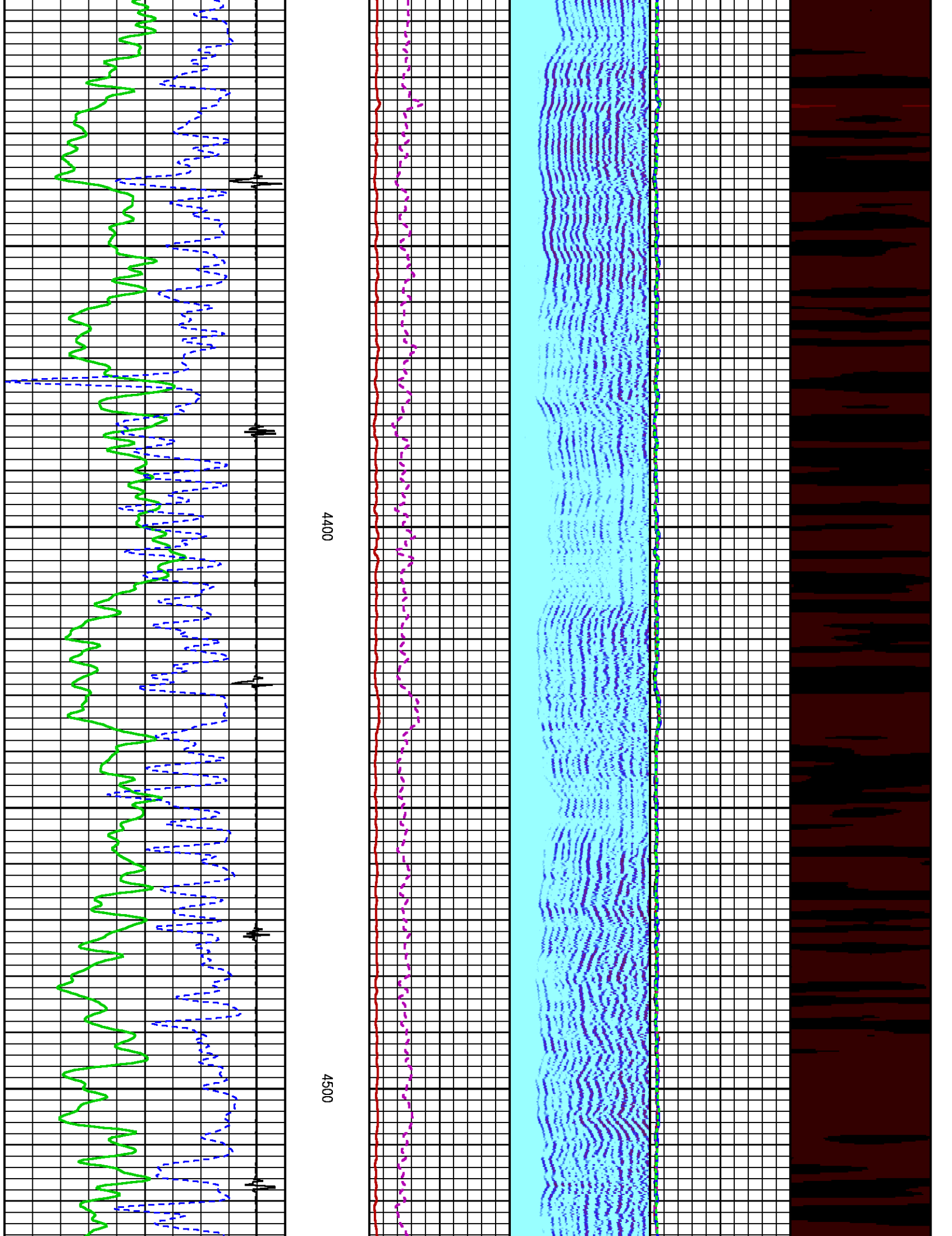


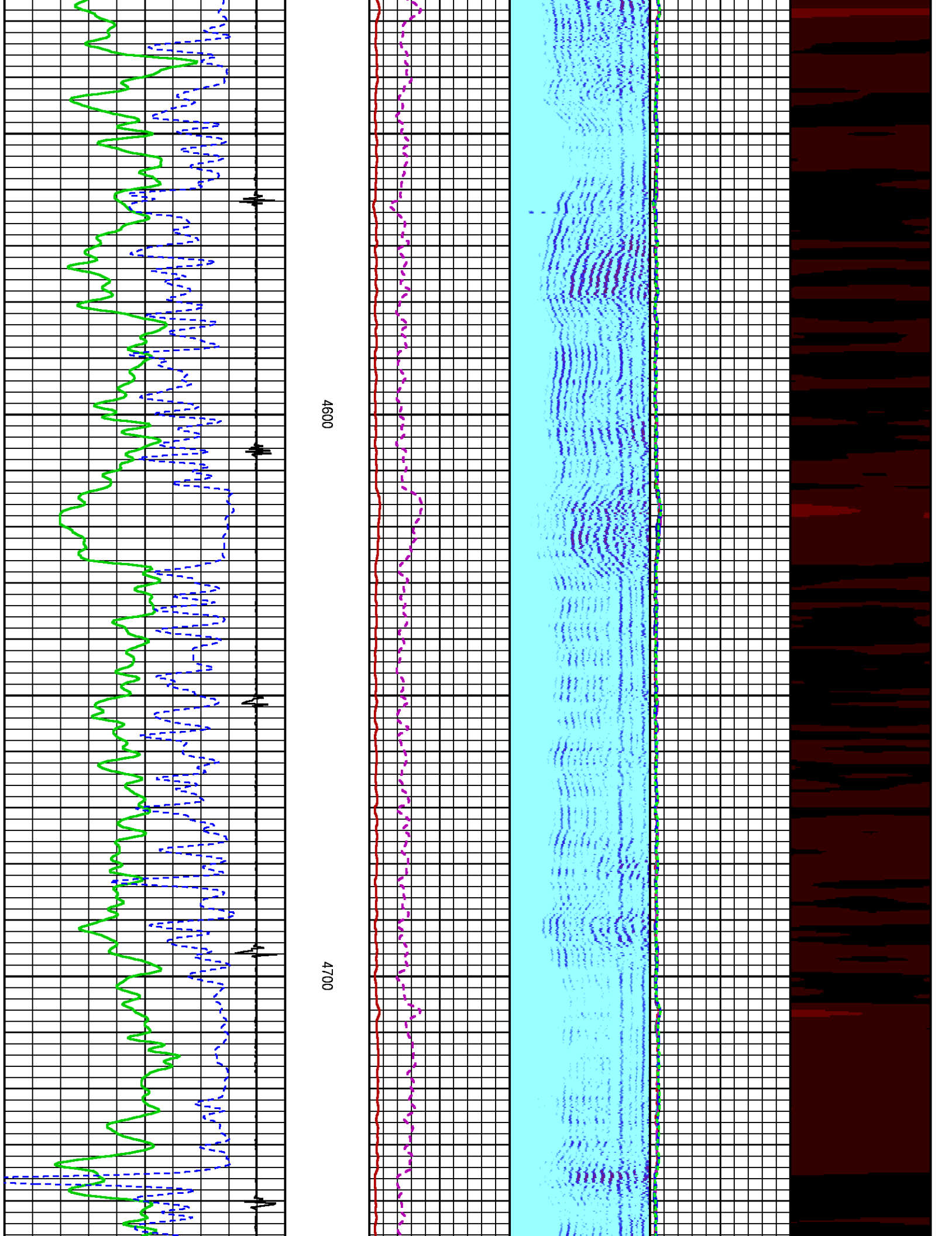
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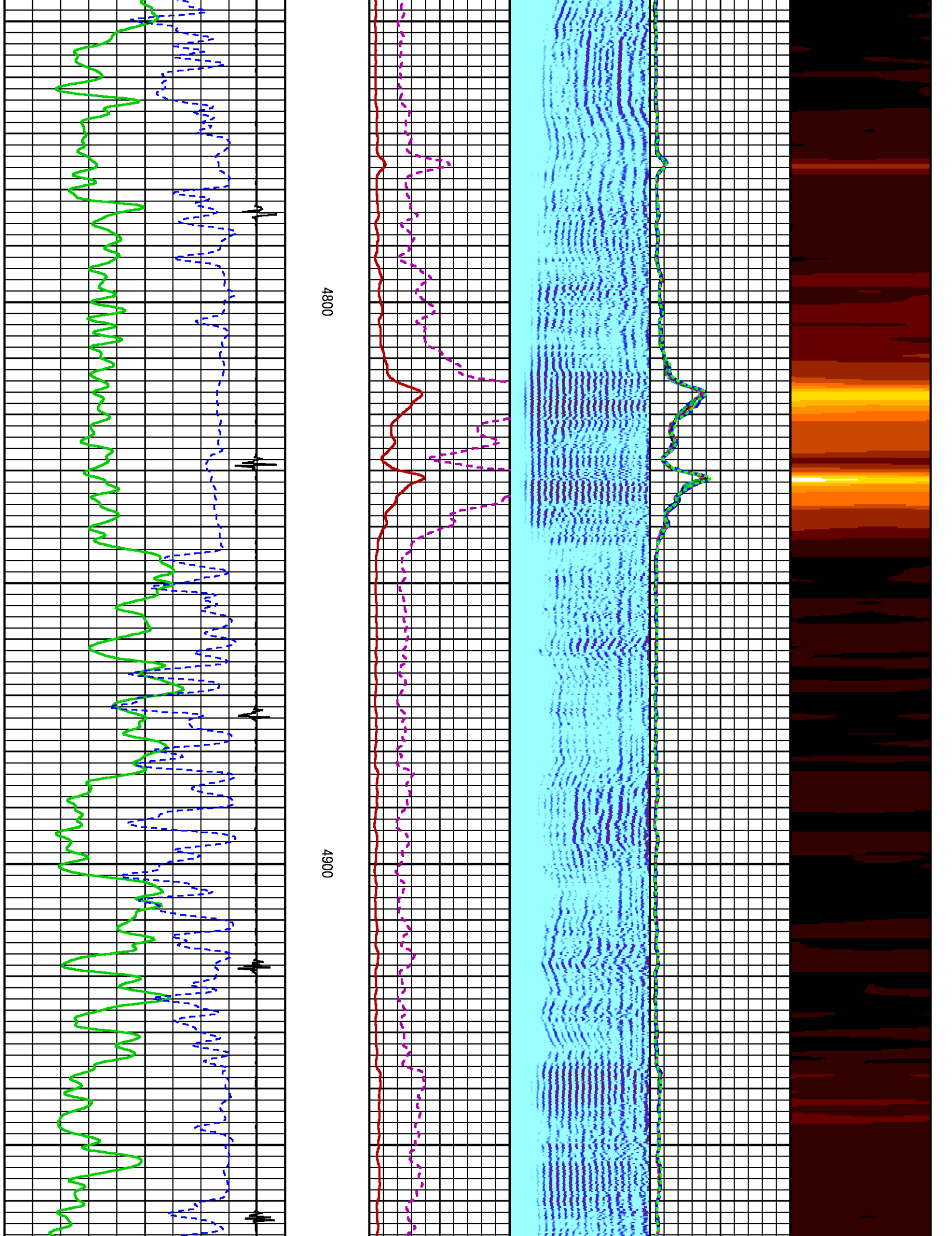
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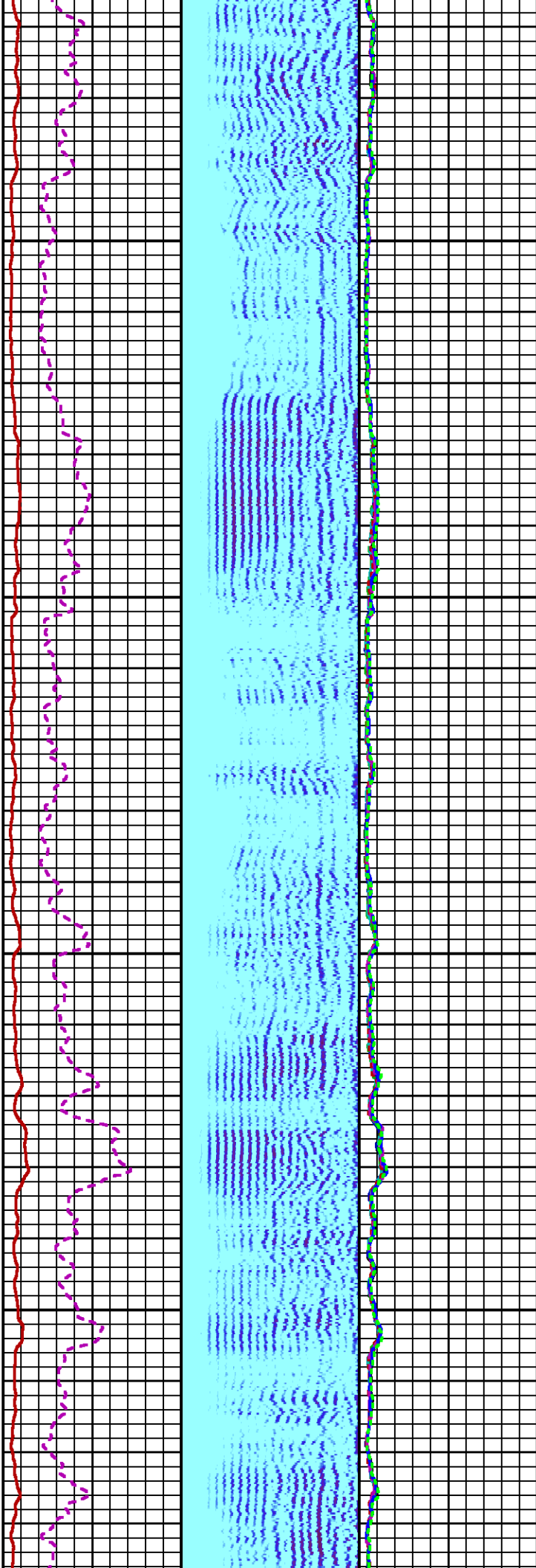
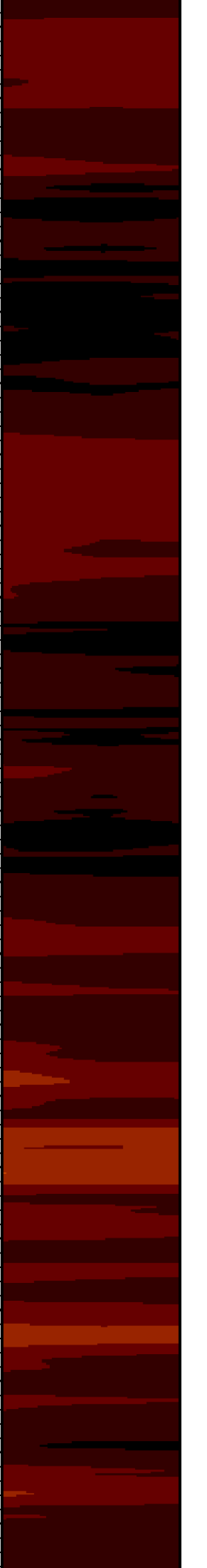
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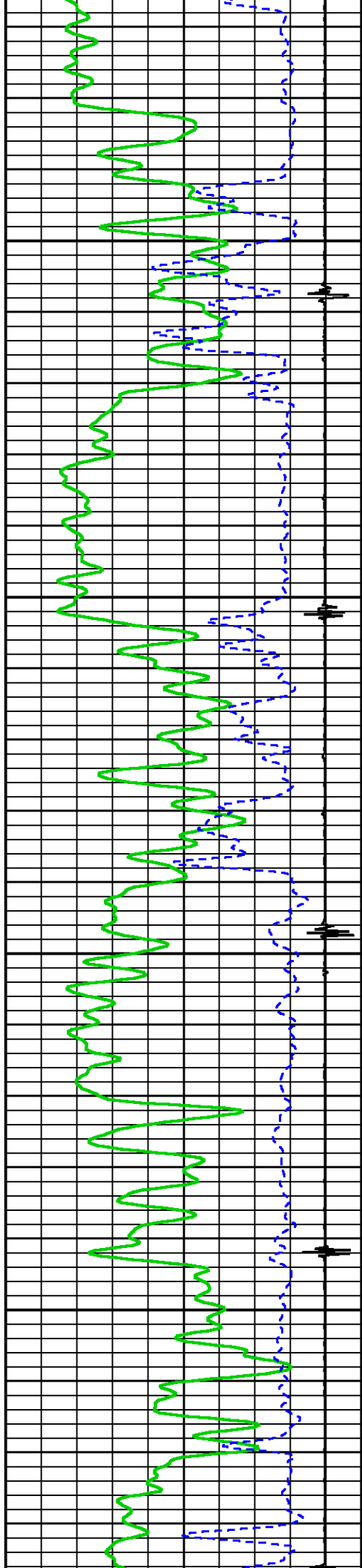


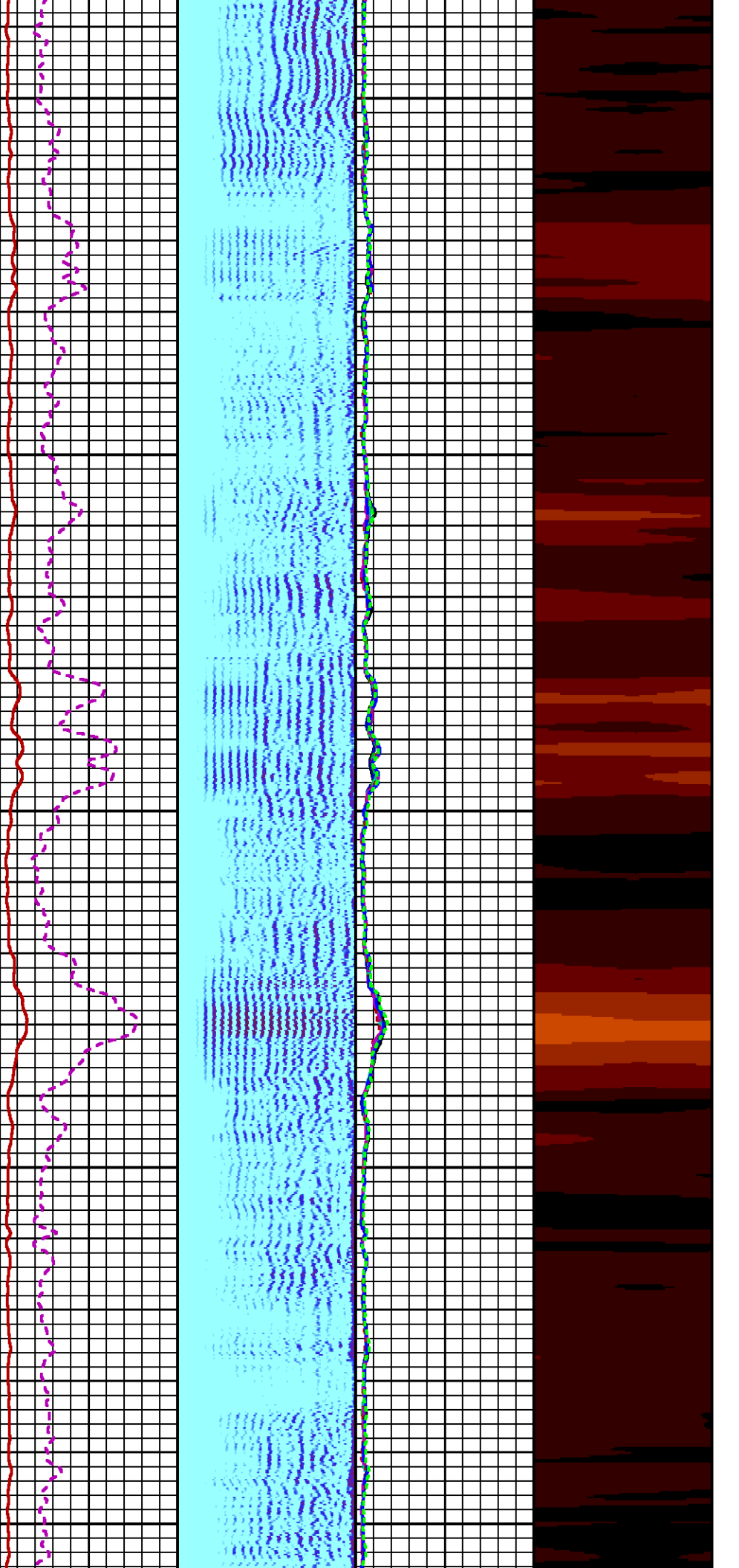




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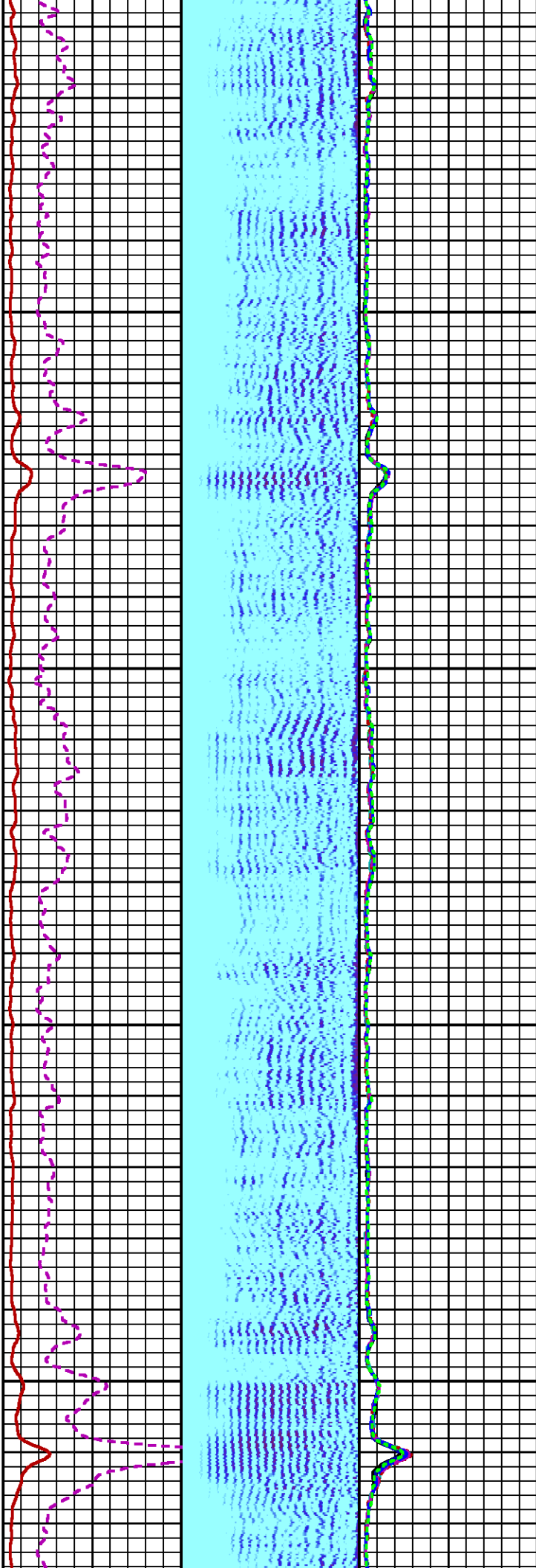
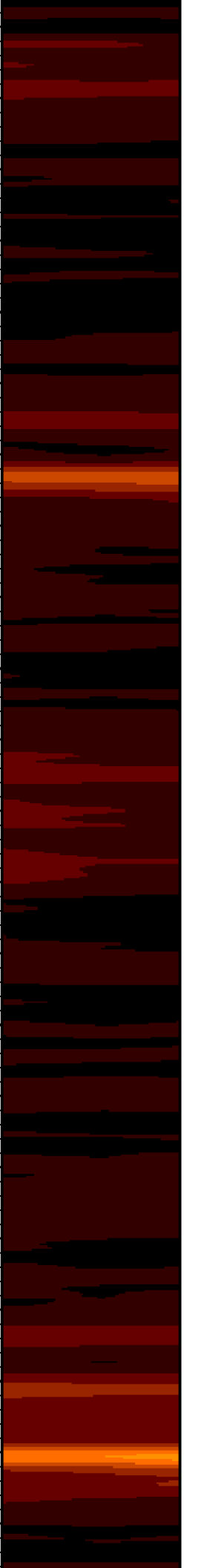




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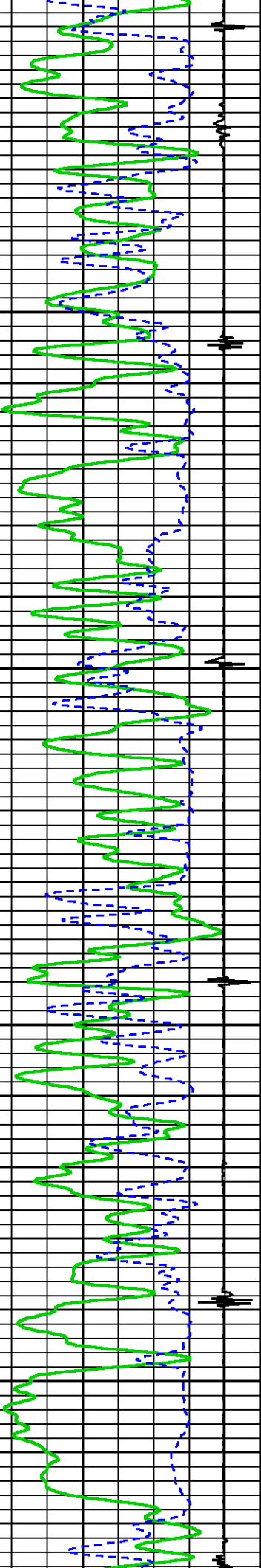
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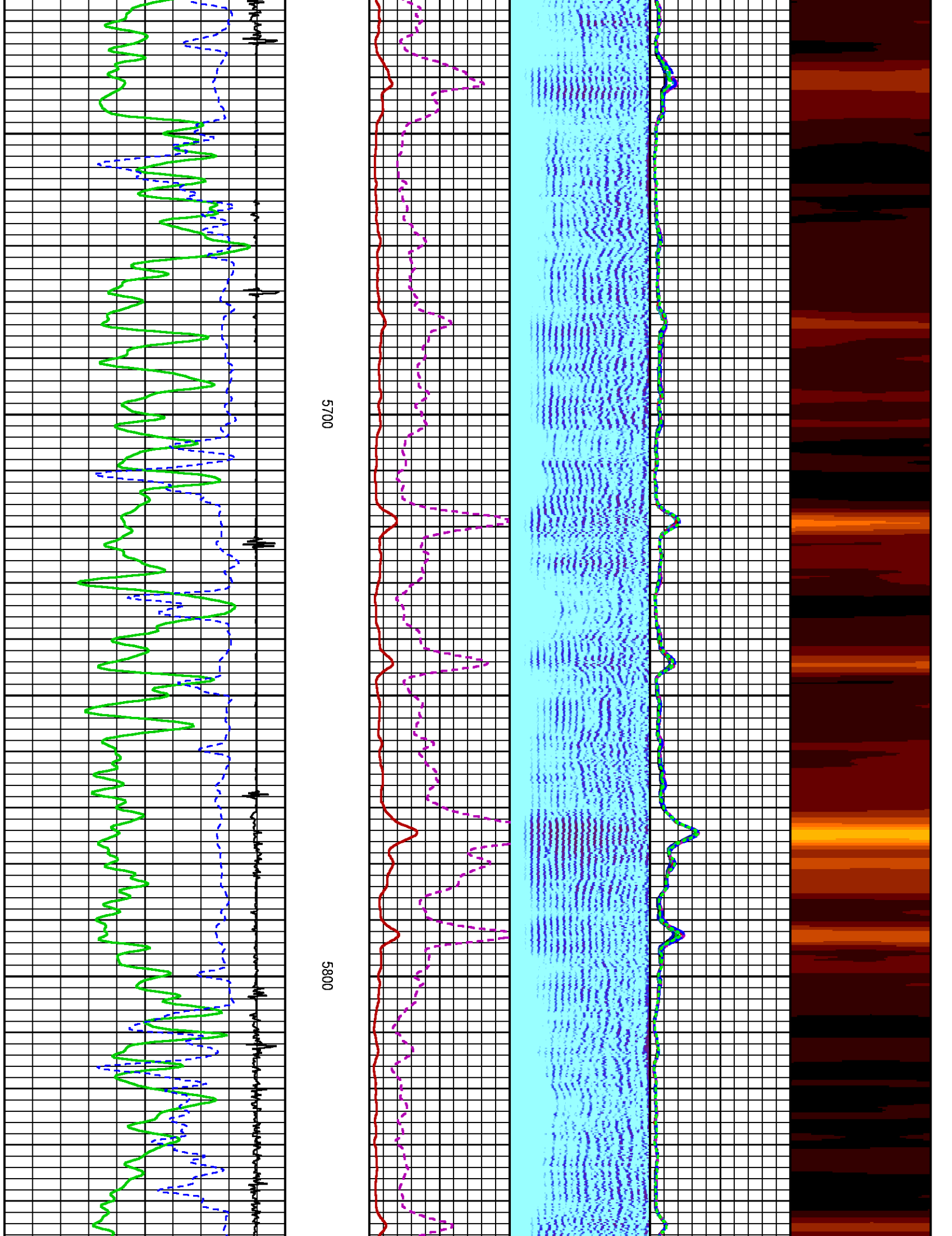
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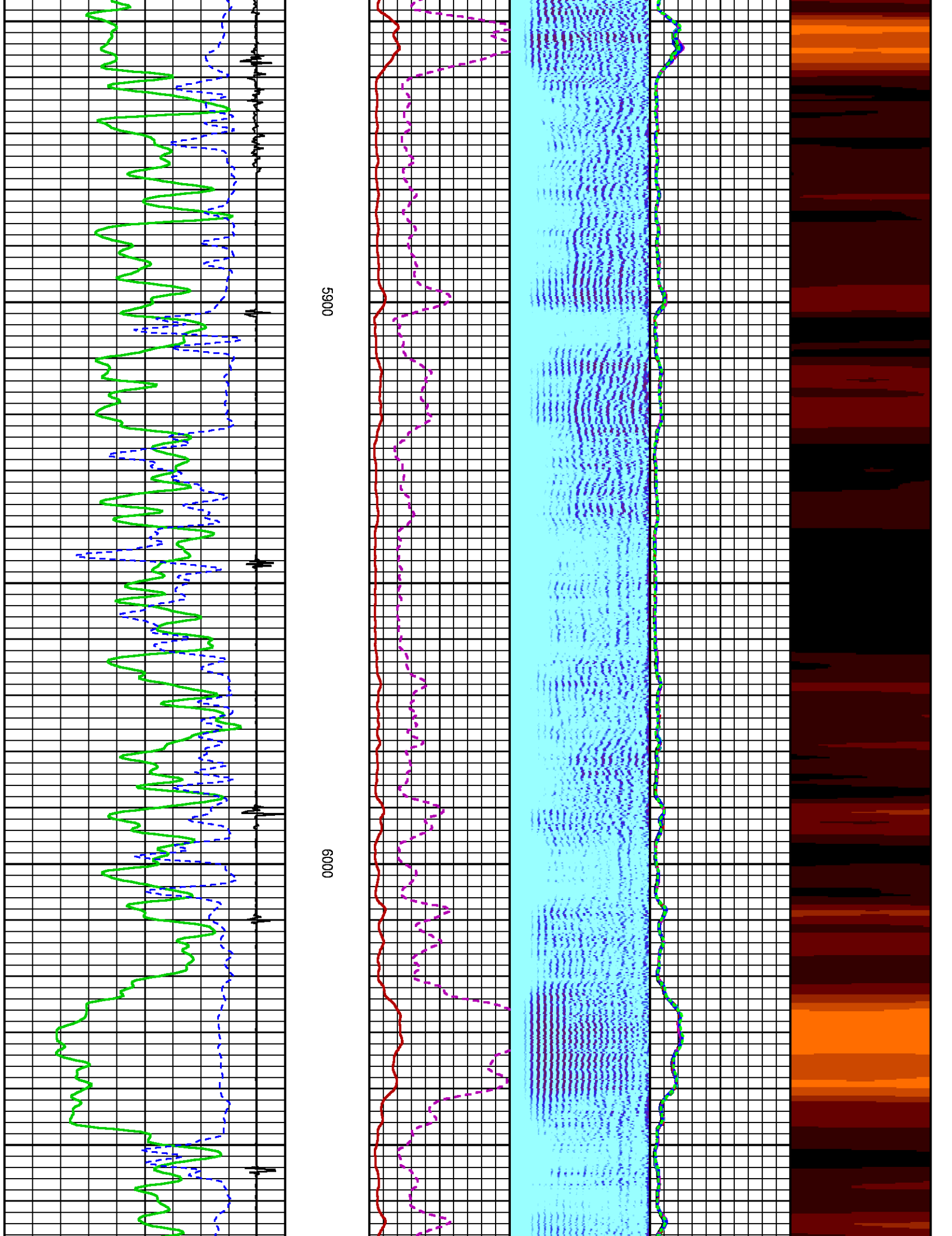


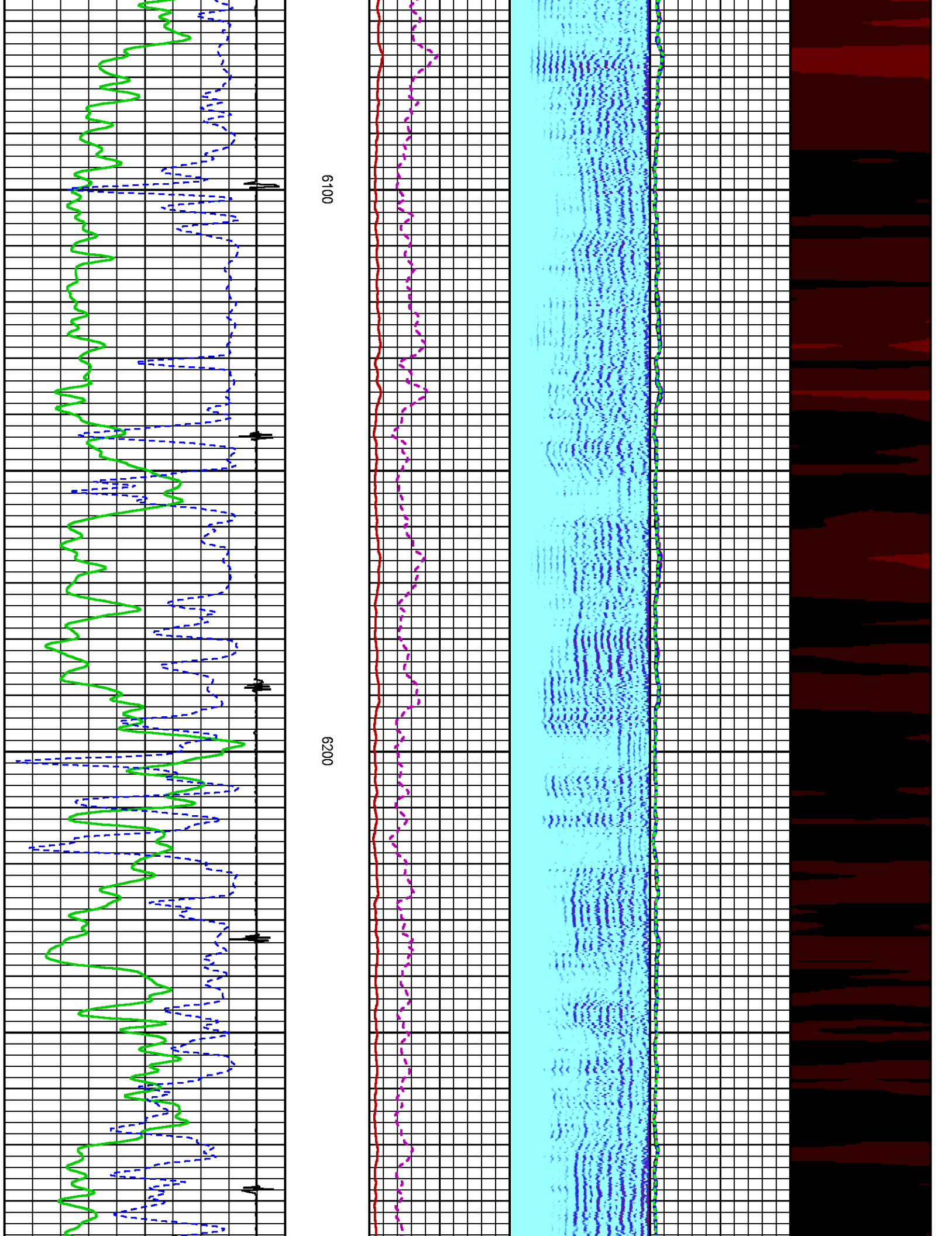
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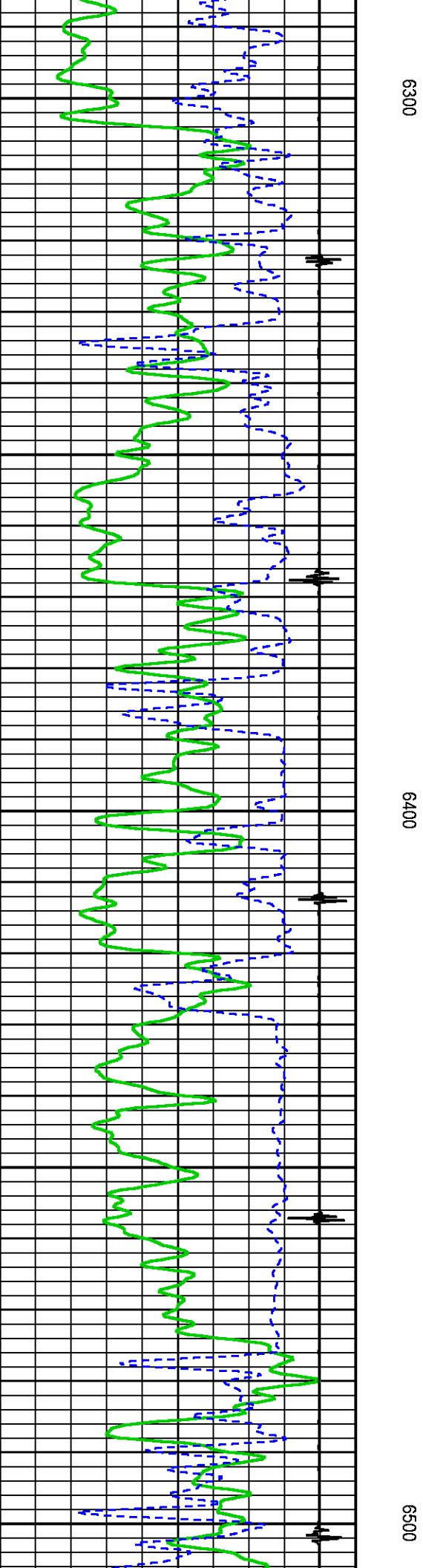
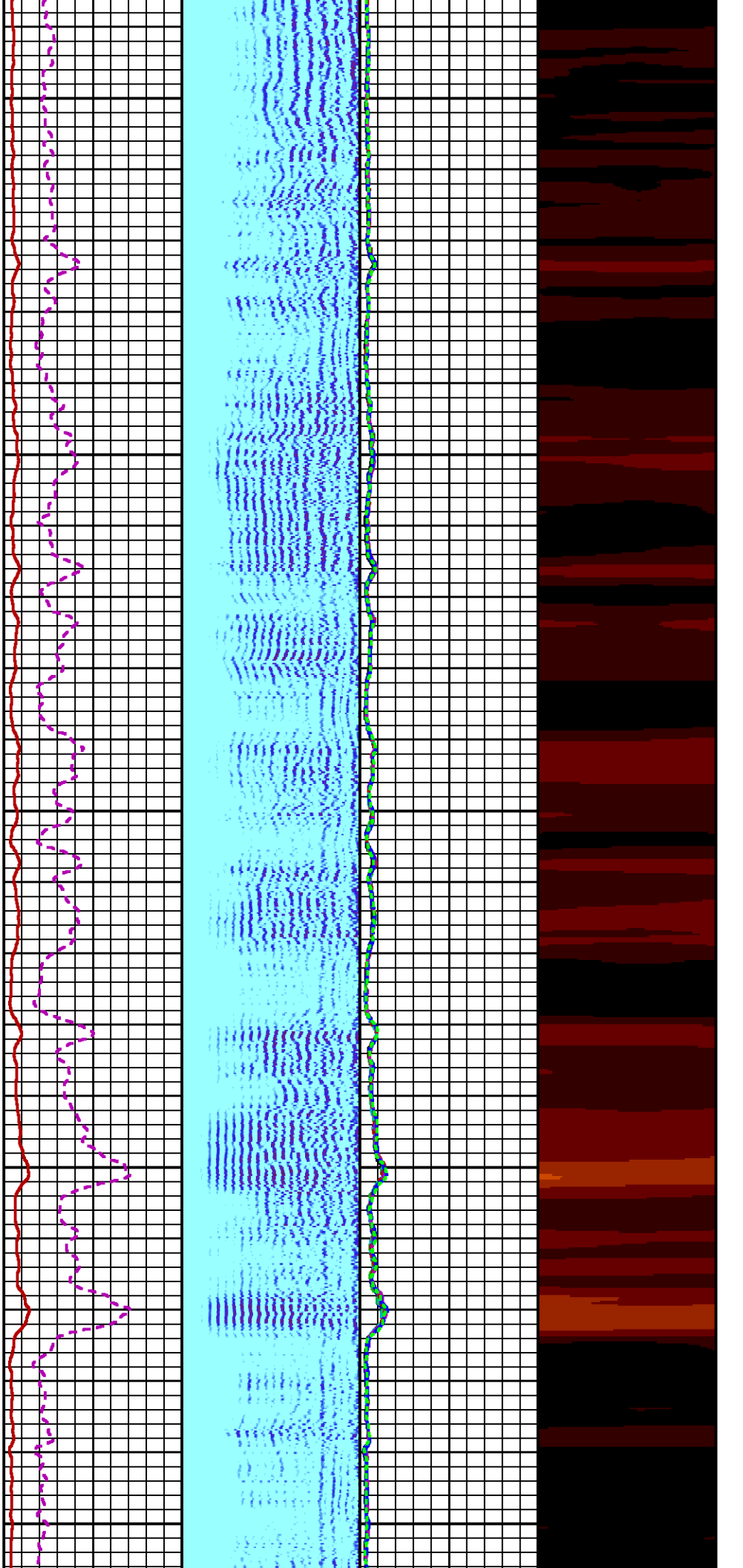
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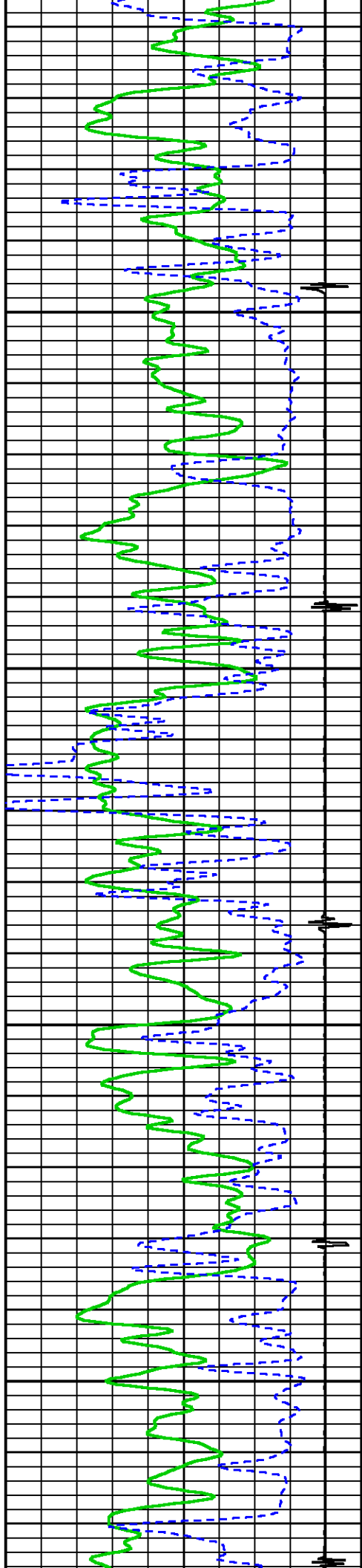






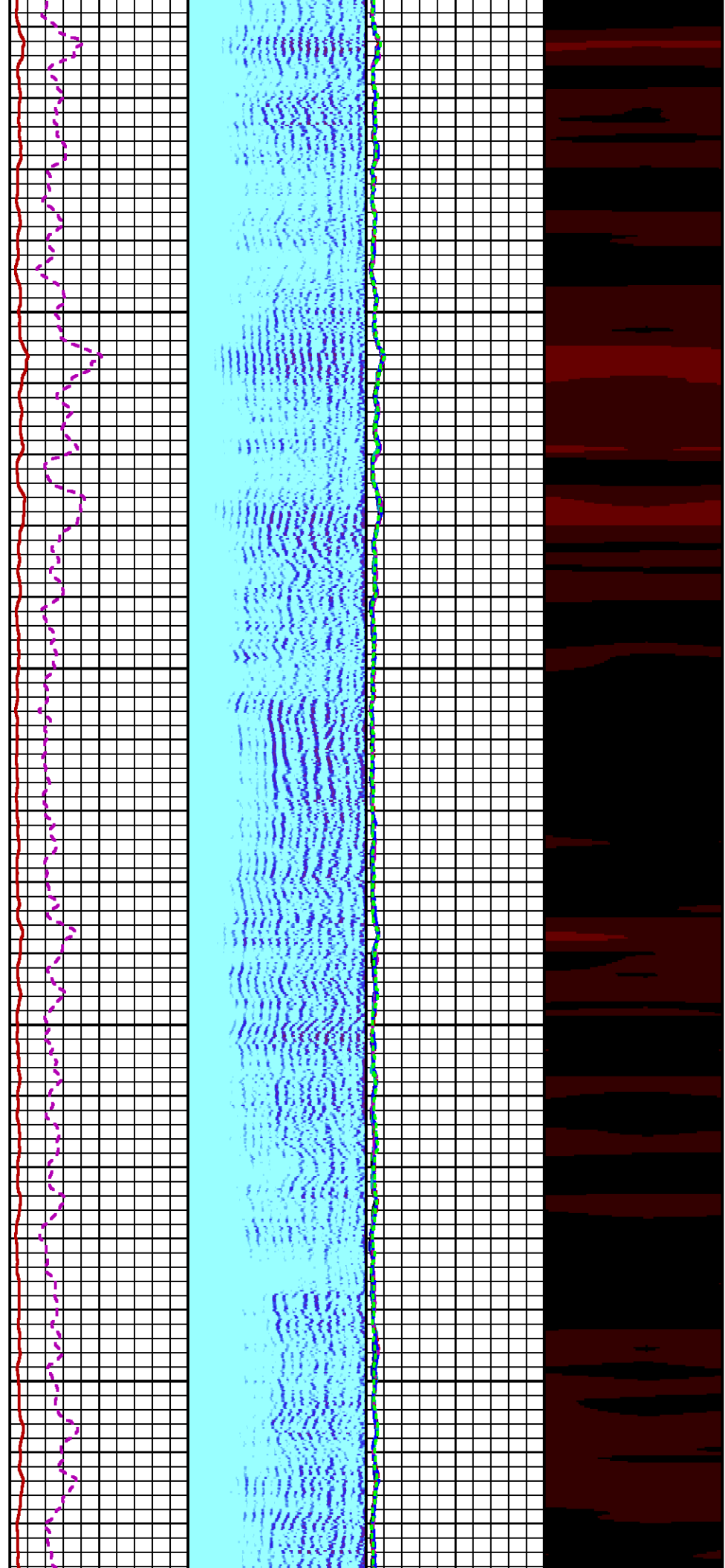


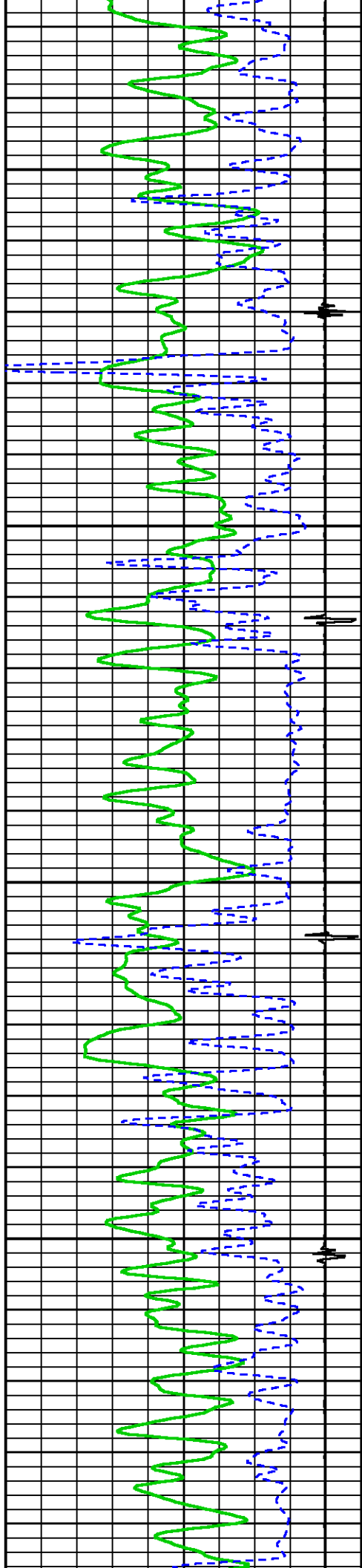




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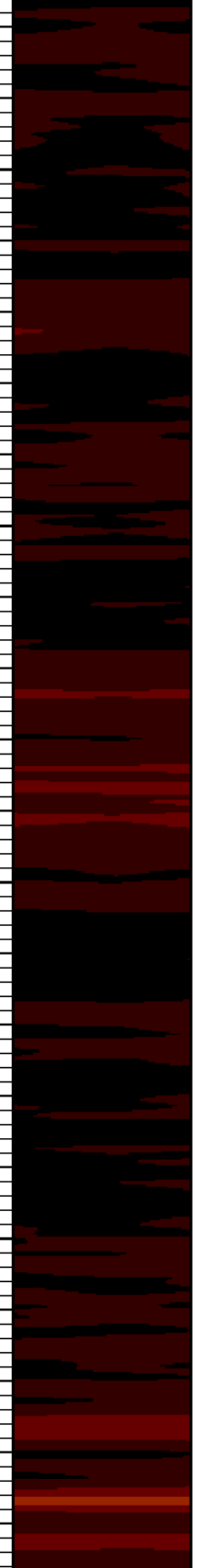
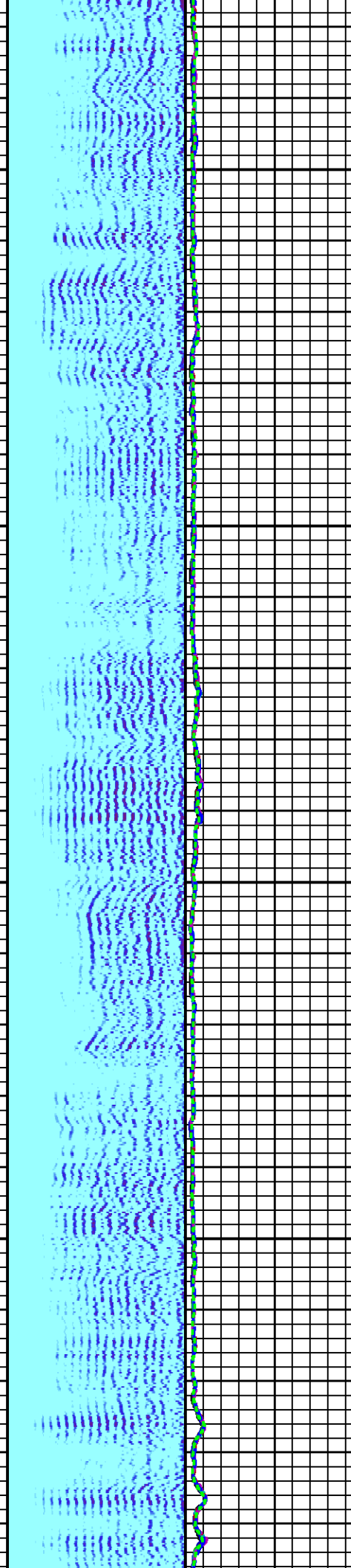
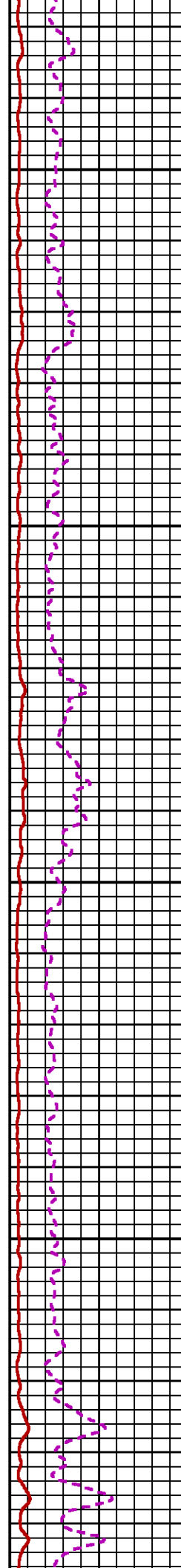
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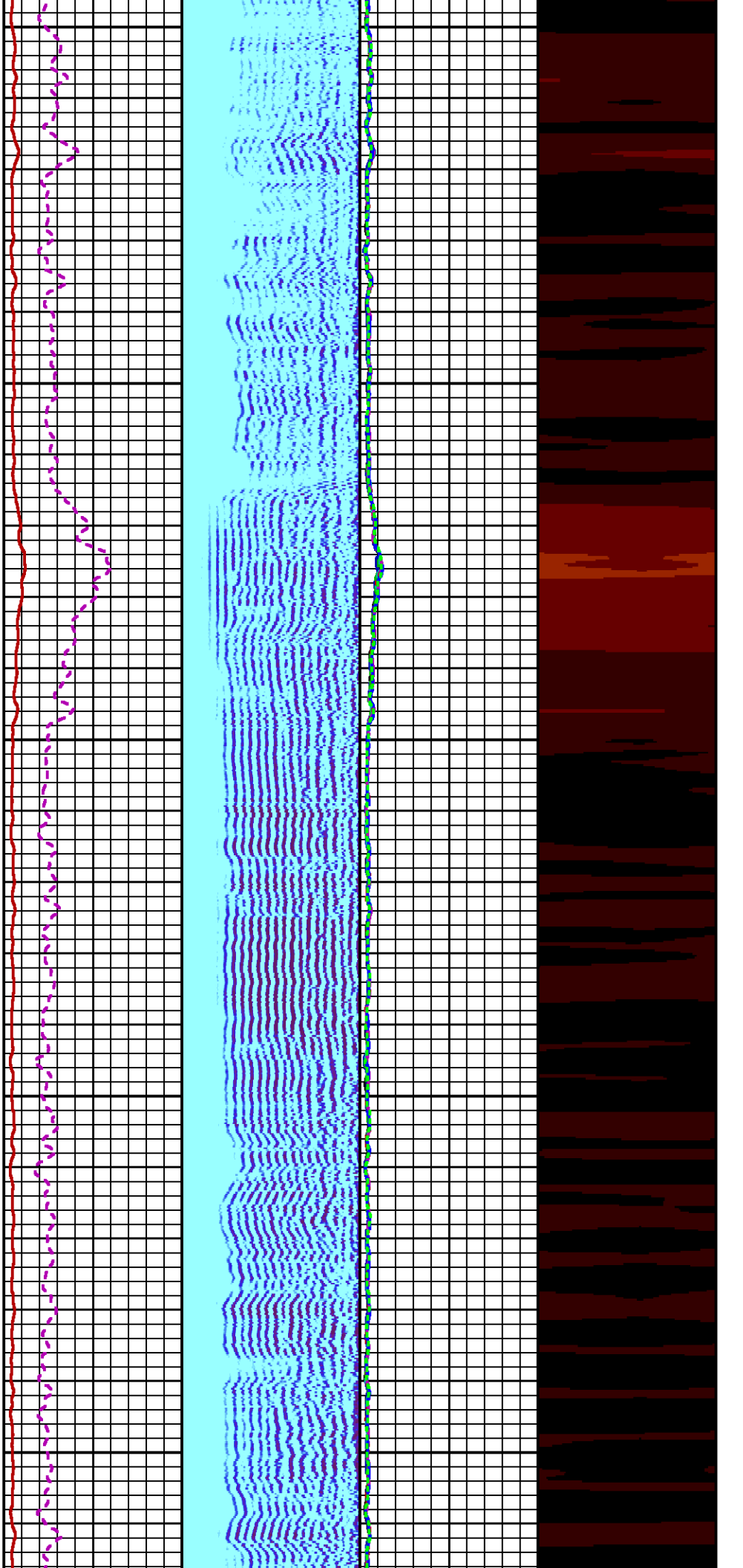




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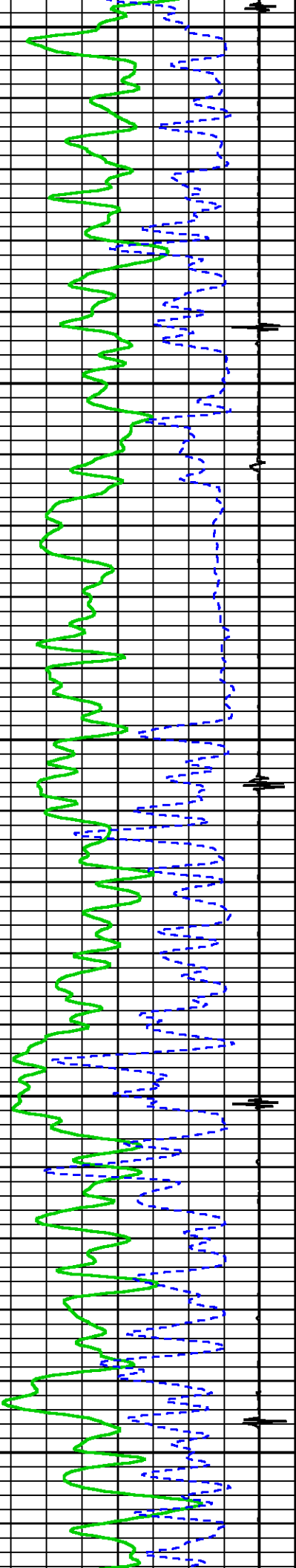
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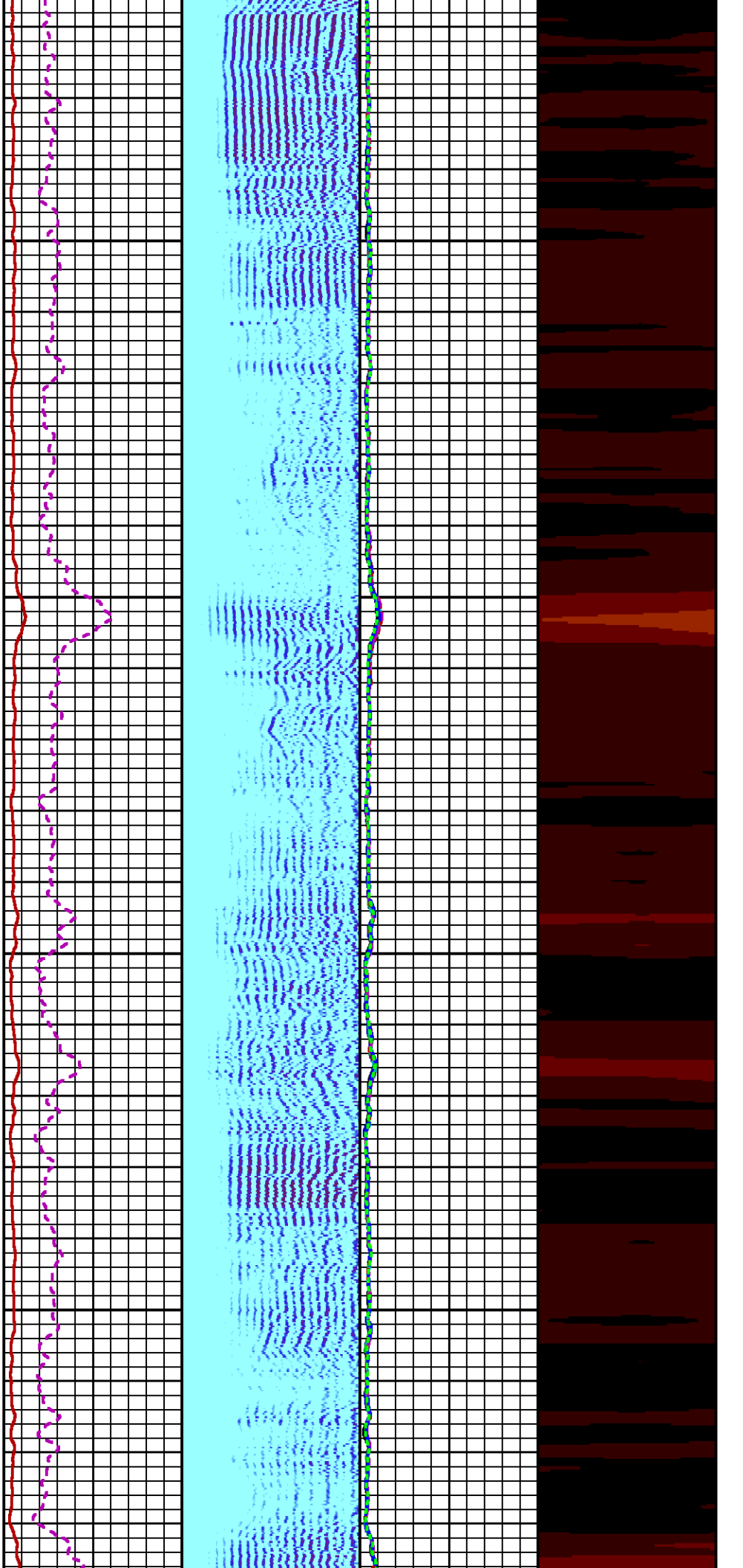




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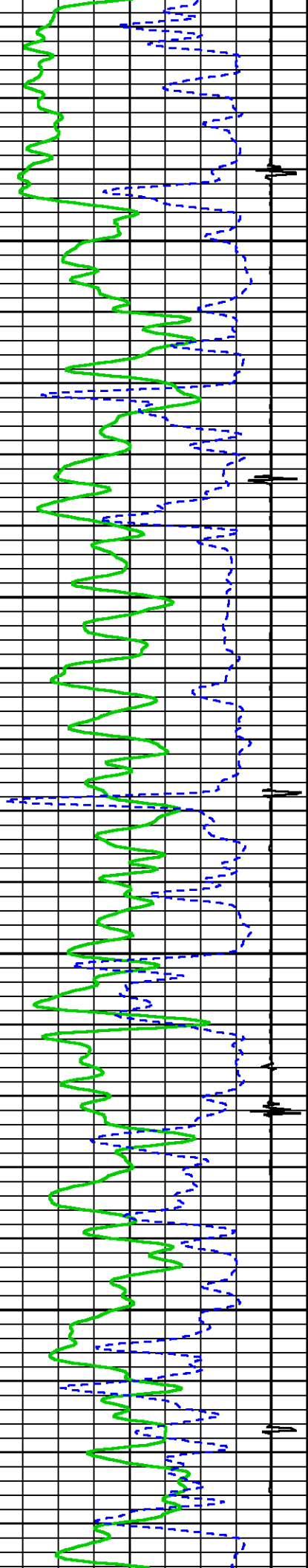
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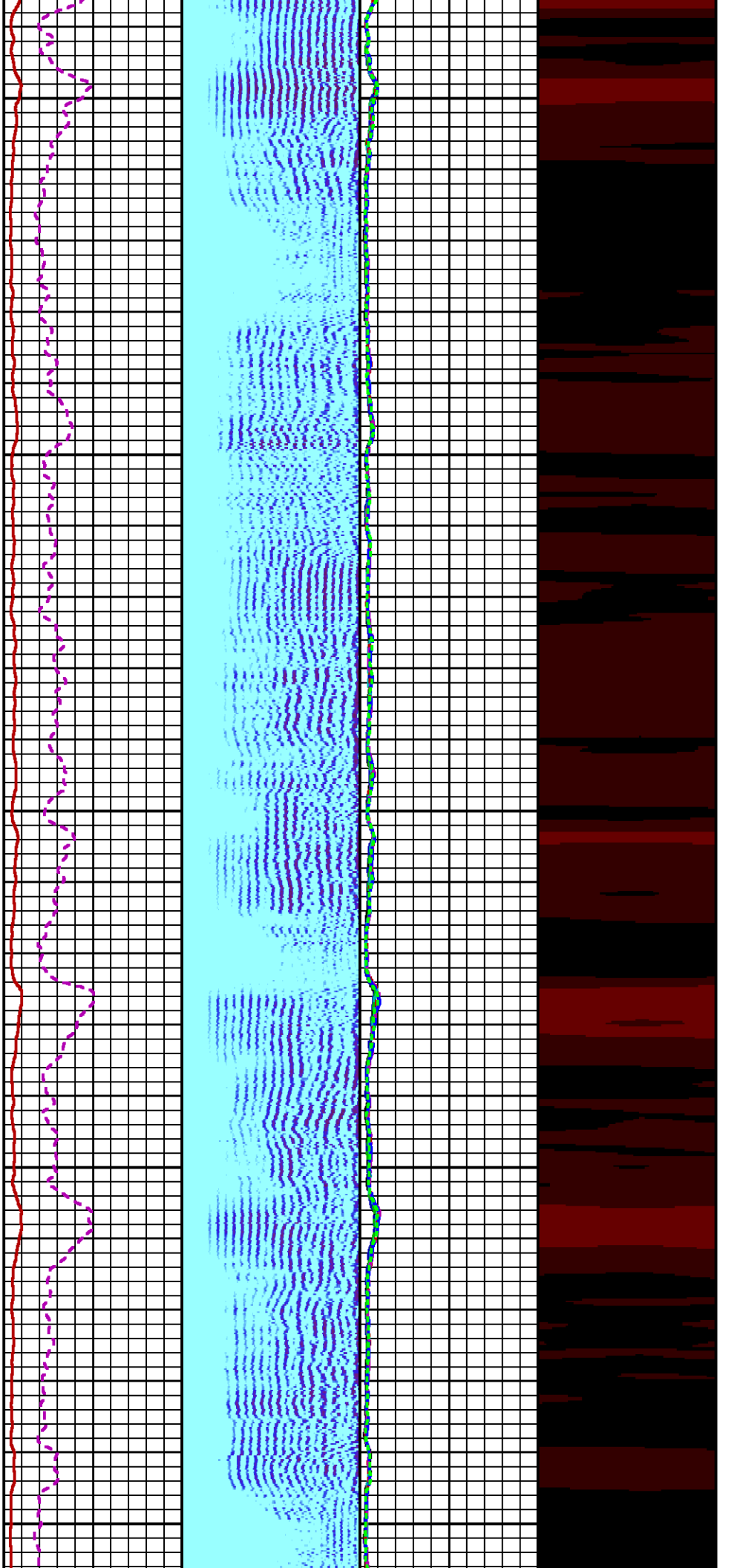




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7300

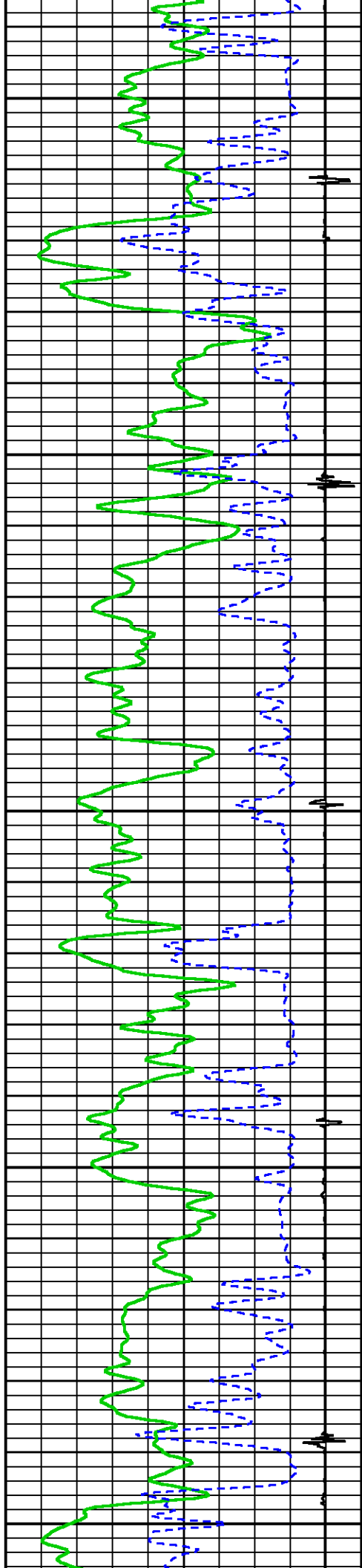


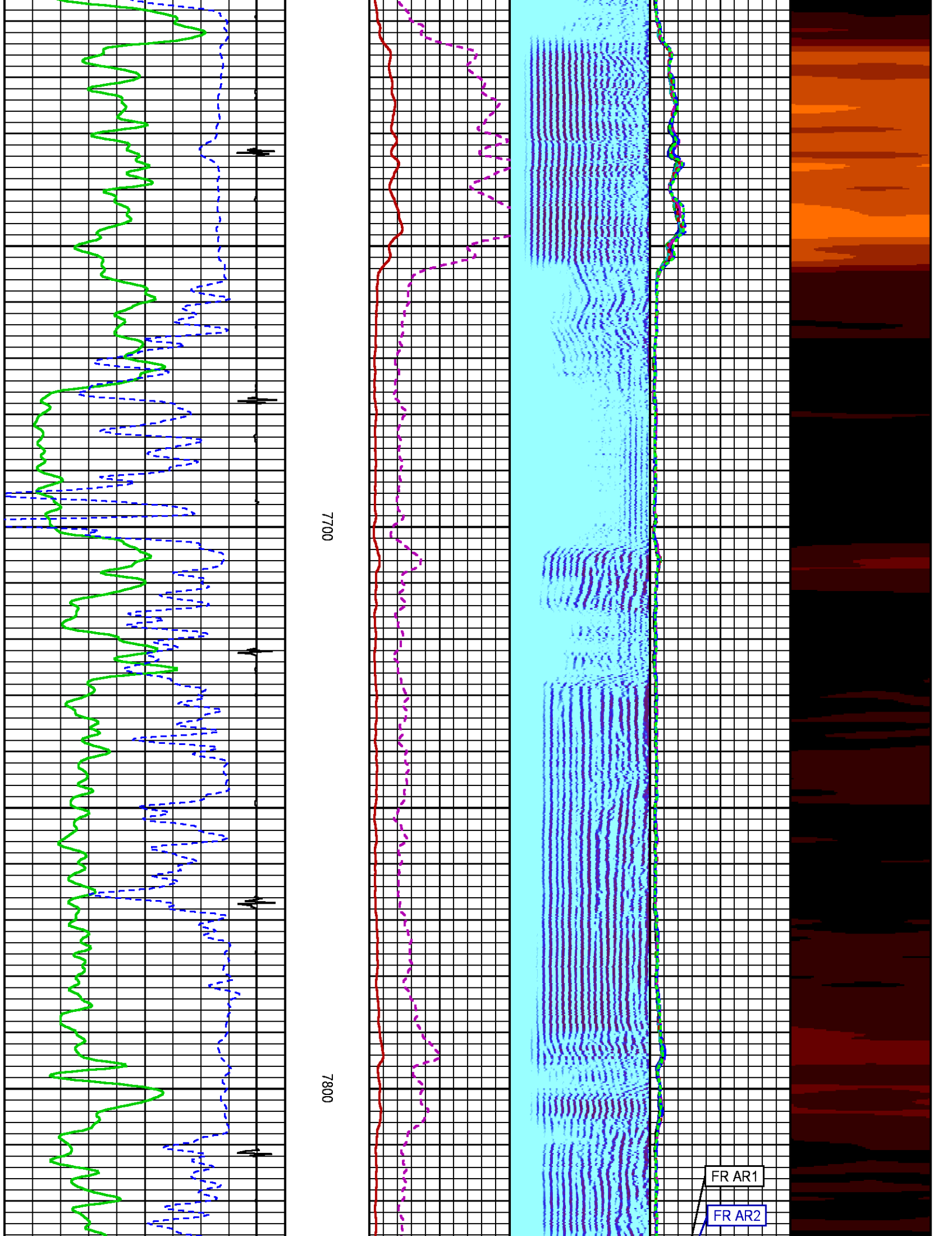


7400

7500

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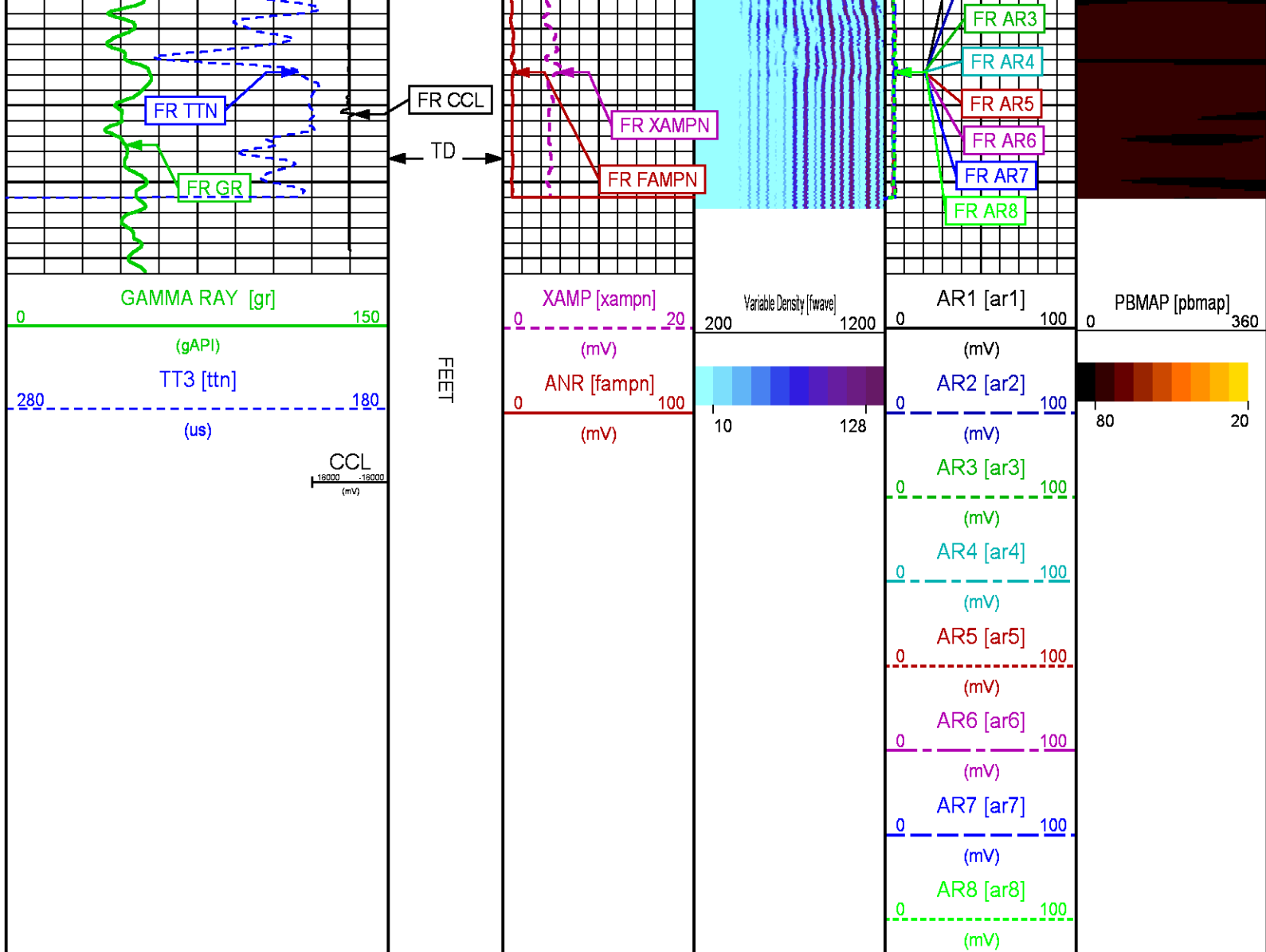


FR AR1

FR AR2

7700

7800



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: Sat Aug 26 13:48:26 2017

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/LARAMIE_GUNDERSON_20_07E/h012g01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 7307.500 ft BOTTOM DEPTH: 7851.000 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)		" "

RAI CGI 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*)	-59	us	TOP	7784.250
		-60	us	7784.250	7785.000
		-61	us	7785.000	BOTTOM
	TOOL DELAY (str2*)	-59	us	TOP	7784.250
		-60	us	7784.250	7785.000
		-61	us	7785.000	BOTTOM
	TOOL DELAY (str3*)	-59	us	TOP	7784.250
		-60	us	7784.250	7785.000
		-61	us	7785.000	BOTTOM
	TOOL DELAY (str4*)	-59	us	TOP	7784.250
		-60	us	7784.250	7785.000
		-61	us	7785.000	BOTTOM
	TOOL DELAY (str5*)	-59	us	TOP	7784.250
		-60	us	7784.250	7785.000
		-61	us	7785.000	BOTTOM
	TOOL DELAY (str6*)	-59	us	TOP	7784.250
		-60	us	7784.250	7785.000
		-61	us	7785.000	BOTTOM
	TOOL DELAY (str7*)	-59	us	TOP	7784.250
		-60	us	7784.250	7785.000
		-61	us	7785.000	BOTTOM
	TOOL DELAY (str8*)	-59	us	TOP	7784.250
		-60	us	7784.250	7785.000
		-61	us	7785.000	BOTTOM
	TOOL DELAY (strn*)	-59	us	TOP	7784.250
		-60	us	7784.250	7785.000
		-61	us	7785.000	BOTTOM
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	?	mV	"	"
	FULL BOND AMP REC 8	2	mV	"	"

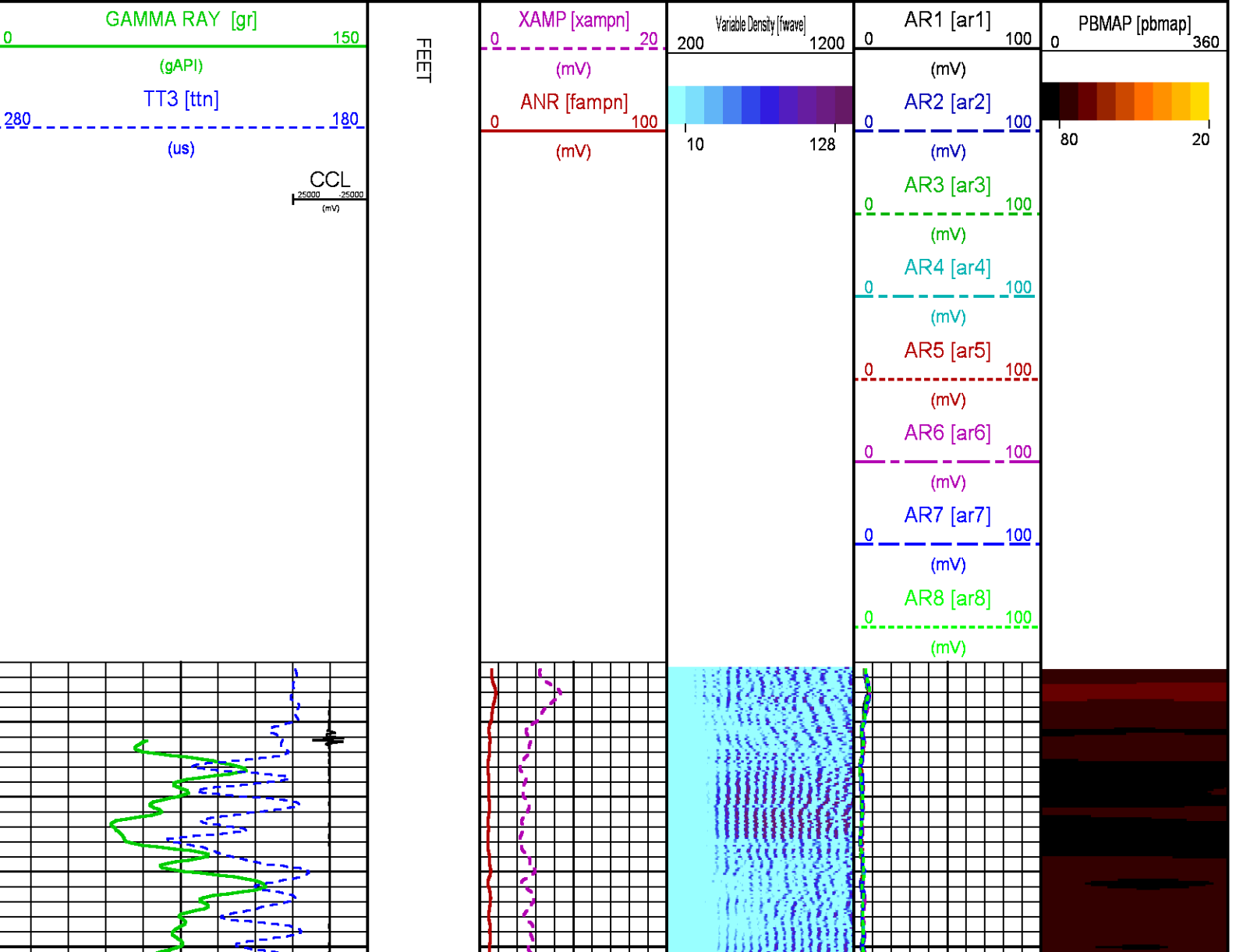
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Aug 26 12:08:37 2017	FIXED GATE AMPLITUDE T-R1
F1:AR2	Aug 26 12:08:37 2017	FIXED GATE AMPLITUDE T-R2
F1:AR3	Aug 26 12:08:37 2017	FIXED GATE AMPLITUDE T-R3
F1:AR4	Aug 26 12:08:37 2017	FIXED GATE AMPLITUDE T-R4

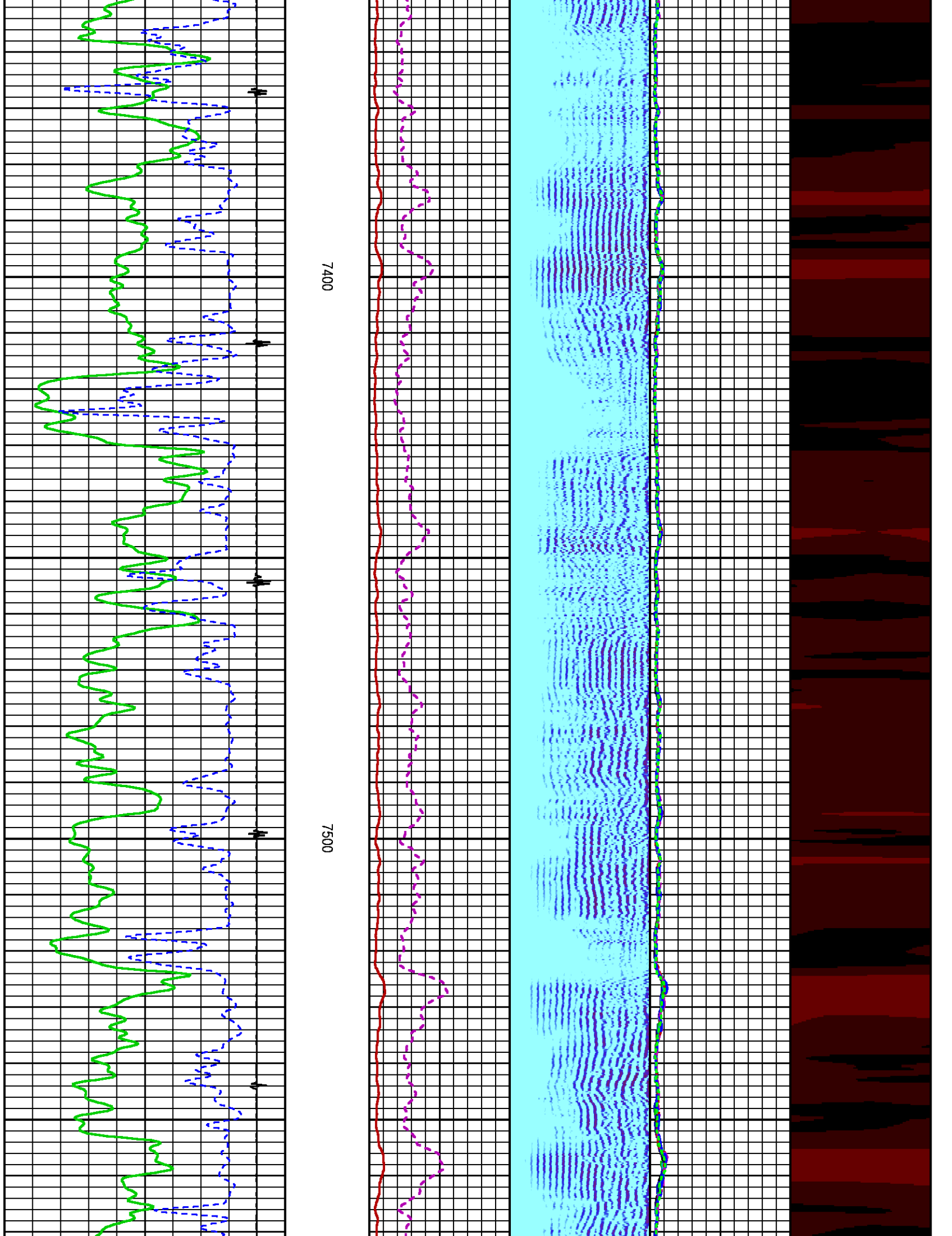
F1:AR5	Aug 26 12:08:37 2017	FIXED GATE AMPLITUDE T-R5
F1:AR6	Aug 26 12:08:37 2017	FIXED GATE AMPLITUDE T-R6
F1:AR7	Aug 26 12:08:37 2017	FIXED GATE AMPLITUDE T-R7
F1:AR8	Aug 26 12:08:37 2017	FIXED GATE AMPLITUDE T-R8
F1:CCL	Aug 26 12:08:37 2017	CASING COLLAR LOCATOR
F1:FAMPN	Aug 26 12:08:37 2017	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Aug 26 12:08:37 2017	FAR WAVE FORM
F1:GR	Aug 26 12:08:37 2017	GAMMA RAY
F1:PBMAP	Aug 26 12:08:37 2017	PERCENT BOND CEMENT MAP
F1:TTN	Aug 26 12:08:37 2017	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Aug 26 12:08:37 2017	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

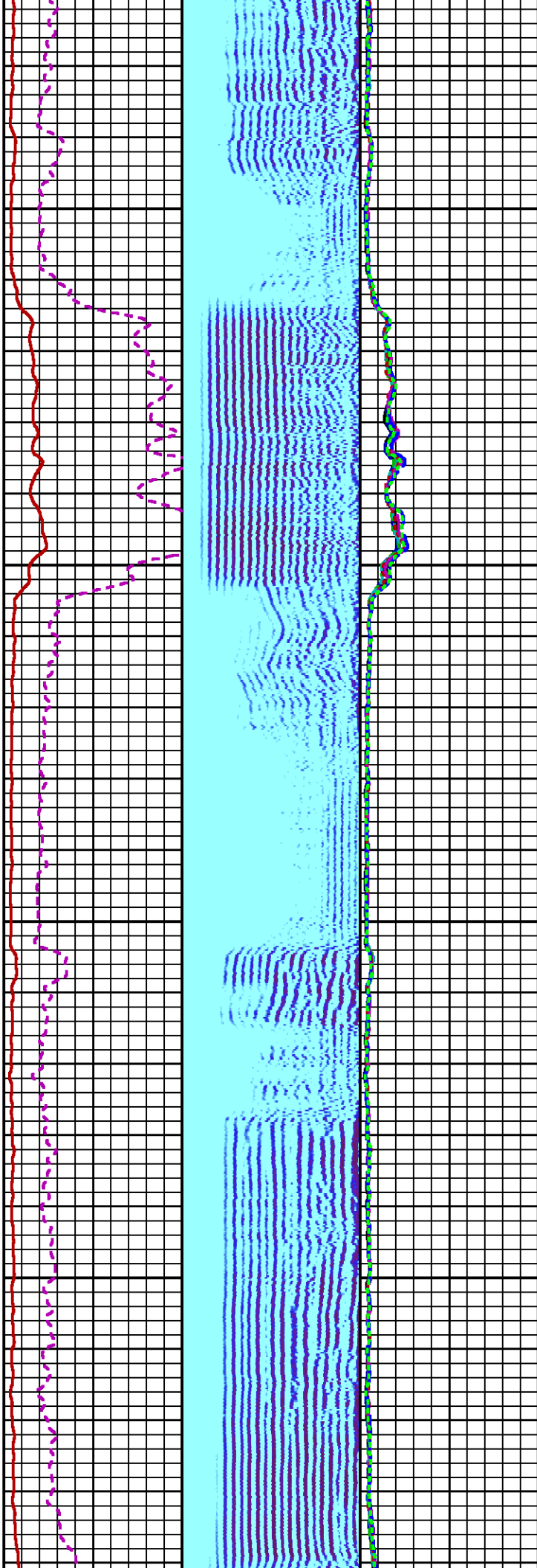
CURVE MEASURE POINT OFFSET

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:GUNDERSON_20_07E_RAL_REPEAT.fvpdf [5"/100' Scale]
Plot Interval	: 7312.75 - 7865.25 Feet
Data File 1	: F1 : cpu100:/dat1a/LARAMIE_GUNDERSON_20_07E/GUNDERSON_20_07E_RAL_RPT.xtf
Created On	: Aug 26 12:08:37 2017
Company	: LARAMIE ENERGY
Well	: GUNDERSON 20-08E
Field	: VEGA
File Interval	: 7311.75 - 7866.5 Feet
OCT	: n012g

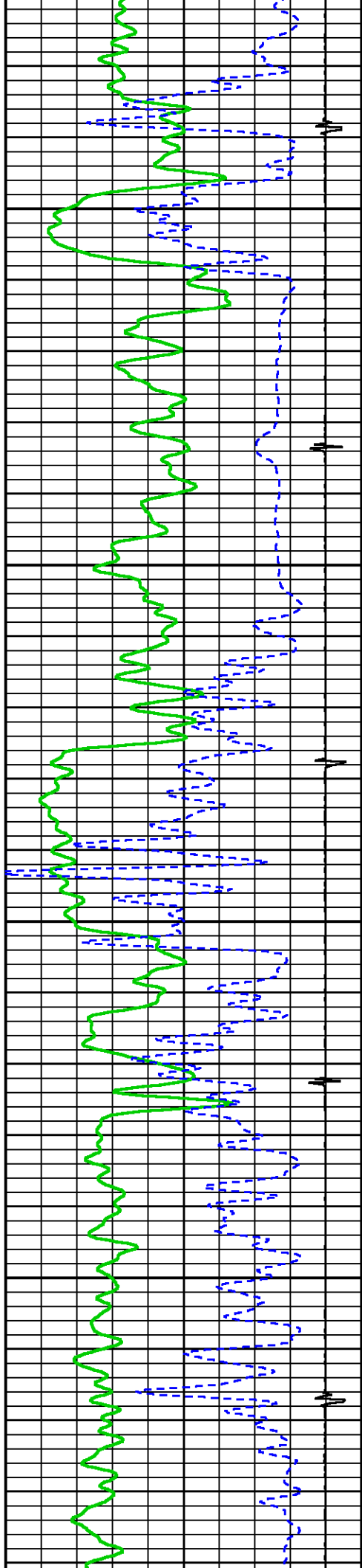


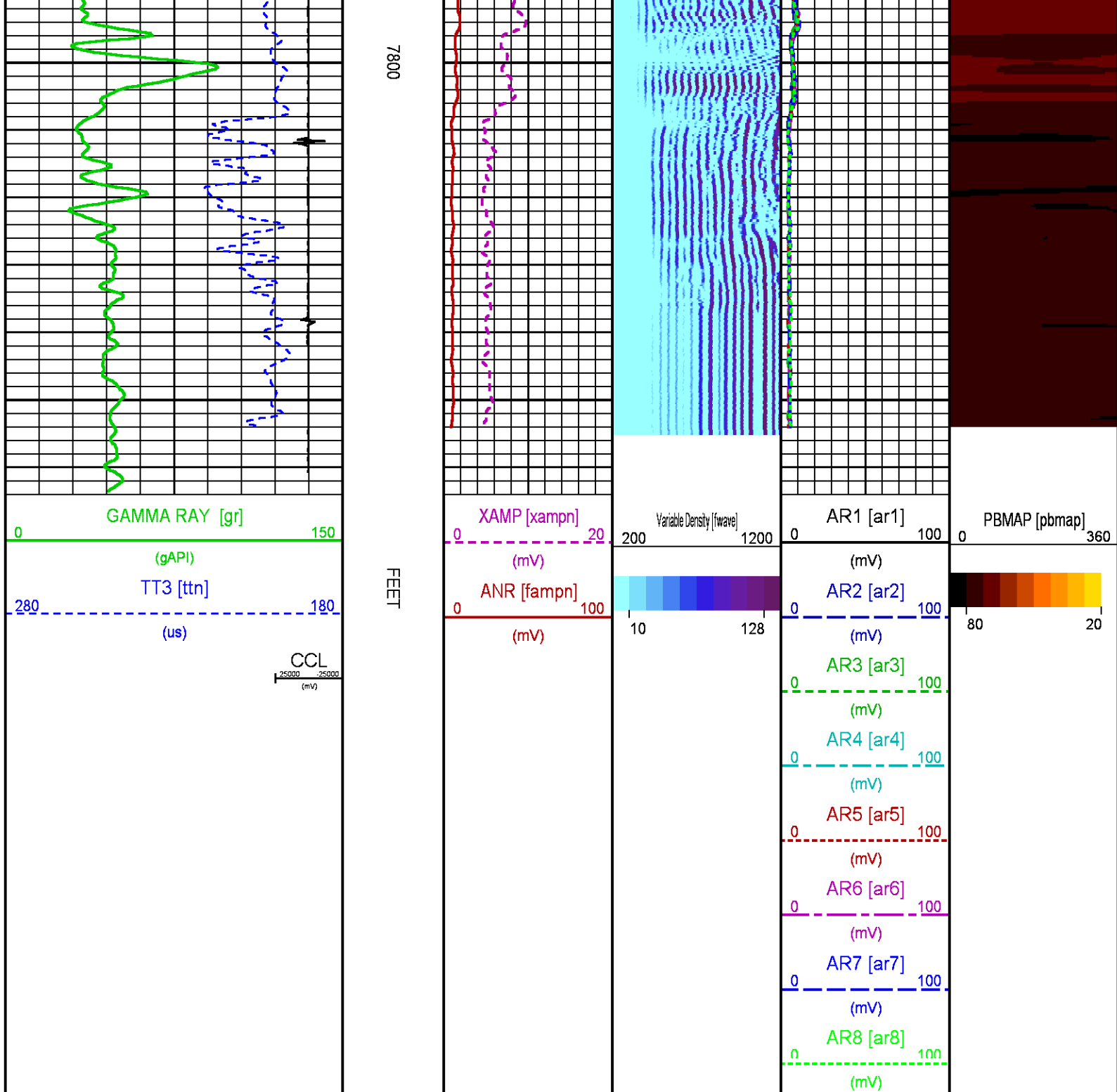




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CALIBRATION / VERIFICATION SUMMARY

Source File: /dal1a/LARAMIE_GUNDERSON_20_07E/m012g.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10218496

DATE/TIME PERFORMED: Wed Aug 23 08:23:52 2017

UNIT #: 3880TA HL6670

	NEAR (mV)	RADIAL (mV)	FAR (mV)
TARGETS	100.00	100.00	150.00

	NEAR	R1	R2	R3	R4	R5	R6	R7	R8	FAR	CAL
ZERO (mV)	-0.00	-0.07	0.05	-0.05	0.22	0.14	0.13	-0.01	0.01	1.03	0.01
AMP FLUID (mV)	86	85	84	84	86	86	87	87	86	114	84
TT (us)	201	202	202	202	200	199	199	199	202	310	202
M FACTOR	1.16	1.18	1.19	1.19	1.17	1.16	1.15	1.15	1.17	1.32	1.19

RAL BEFORE LOG VERIFICATION SUMMARY												
TOOL #:	1426XA 10218496			DATE/TIME PERFORMED:	Wed Aug 23 08:24:49 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	0.12	0.07	0.08	0.05	0.07	0.09	0.10	0.05	0.06	0.71	-0.03
AMP AIR	2.67	2.09	2.21	2.27	2.21	2.88	2.66	2.51	2.19	2.52	100.29

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
1.19	0.00	1.00

GR PRIMARY CALIBRATION SUMMARY							
TOOL #:	1355XA 12670180			DATE/TIME PERFORMED:	Fri Dec 23 11:53:22 2016		
UNIT #:	3880TA HL6670			CALB JIG #:	4702NK DA_228		

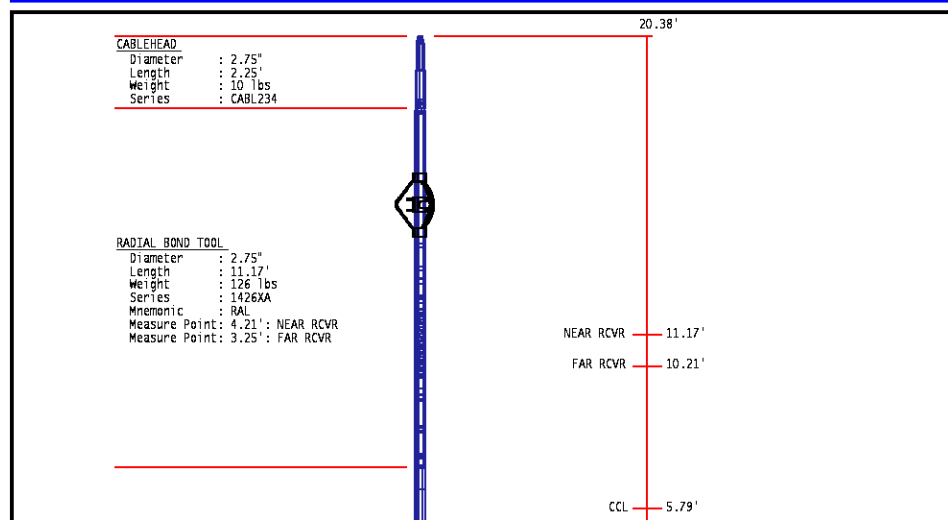
	BACKGROUND CALBRTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND CALBRTR ON (gAPI)	BACKGROUND CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	75.82	247.07	171.2	0.584	44.28	144.28
						100

GR PRIMARY VERIFICATION SUMMARY						
TOOL #:	1355XA 12670180			DATE/TIME PERFORMED:	Fri Dec 23 11:54:47 2016	
UNIT #:	3880TA HL6670			VERI JIG #:	4702NK DA_228	

	BACKGROUND CALBRTR ON (cts)	BACKGROUND CALBRTR ON (cts)	MULT	BACKGROUND CALBRTR ON (gAPI)	BACKGROUND CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	77.11	254.76	0.584	45.03	148.77	103.74
						66.00 110.00

INSTRUMENT CONFIGURATION

Source File: /data/LARAMIE_GUNDERSON_20_07E/RAL-tdg




RAL GR/TEMP/CCL/CHV DETECTOR
 Diameter : 2.75"
 Length : 6.96'
 Weight : 85 lbs
 Series : 1355XA
 Mnemonic : RAL
 Measure Point: 5.79' : CCL
 Measure Point: 1.67' : GR
 Measure Point: 0.17' : TEMP



GR 1.67'

TEMP 0.17'

TOTAL LENGTH: 20.38'
 TOTAL WEIGHT: 235 lbs
 MAX DIAMETER: 0' 4.00"

	COMPANY <u>LARAMIE ENERGY</u>		FILE NO: _____
	WELL <u>GUNDERSON BCU 20-07E</u>		API NO: _____
	FIELD <u>VEGA</u>	COUNTY <u>MESA</u> STATE <u>COLORADO</u>	<u>05077103570000</u>
	LOCATION: SHL: LAT:39.266783N;LONG:107.795281W BHL: LAT:39.265114N;LONG:107.788397W SEC <u>20</u> TWP <u>9S</u> RGE <u>93W</u>		ELEVATIONS: KB 7176 FT DF 7176 FT GL 7146 FT
		DATE <u>26-AUG-2017</u>	