



FILE NO: COMPANY LARAMIE ENERGY

WELL BRUTON 19-01W

API NO: FIELD VEGA

05077104290000 COUNTY MESA STATE COLORADO

Ver. 4.06 LOCATION: OTHER SERVICES

SHL: LAT:39.262997N; LONG:107.815047W

BHL: LAT:39.269311N; LONG:107.816113W

SEC 19 TWP 9S RGE 93W

PERMANENT DATUM GL ELEVATION 7262 FT

LOG MEASURED FROM KB 24 FT ABOVE P.D.

DRILL. MEAS. FROM KB ELEVATIONS: KB 7286 FT DF 7286 FT GL 7262 FT

DATE 28-AUG-2017

RUN 1 TRIP 1

SERVICE ORDER US127294

DEPTH DRILLER 8069 FT

DEPTH LOGGER 8041 FT

BOTTOM LOGGED INTERVAL 8041 FT

TOP LOGGED INTERVAL 24 FT

TIME STARTED 07:30

TIME FINISHED 10:30

OPERATOR RIG TIME 3 HOURS

TYPE OF FLUID IN HOLE WATER

FLUID DENSITY NA

FLUID SALINITY NA

FLUID LEVEL 50 FT

LOGGED CEMENT TOP 1816 FT

WELLHEAD PRESSURE 0 PSI

MAXIMUM HOLE DEVIATION NA

NOMINAL LOGGING SPEED 100 F/MN

MAX. RECORDED TEMP. 237 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: 6188' - 6210'

SJ: 7195' - 7217'

CREW: G.SUAREZ , 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: Mon Aug 28 11:32:12 2017

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/LARAMIE_BRUTON_19_01W/n012g02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: -0.750 ft BOTTOM DEPTH: 8043.000 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)		"	"

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*)	-65	us	TOP	414.250
		-64	us	414.250	1085.750
		-62	us	1085.750	5715.500
		-61	us	5715.500	5890.500
		-62	us	5890.500	5901.250
		-63	us	5901.250	5924.500
		-64	us	5924.500	6057.500
		-65	us	6057.500	7621.500
		-64	us	7621.500	7627.500
		-63	us	7627.500	7774.000
		-64	us	7774.000	BOTTOM
	TOOL DELAY (str2*)	-65	us	TOP	414.250
		-64	us	414.250	1085.750
		-62	us	1085.750	5715.500
		-61	us	5715.500	5890.500
		-62	us	5890.500	5901.250
		-63	us	5901.250	5924.500
		-64	us	5924.500	6057.500
		-65	us	6057.500	7621.500
		-64	us	7621.500	7627.500
		-63	us	7627.500	7774.000
		-64	us	7774.000	BOTTOM
	TOOL DELAY (str3*)	-65	us	TOP	414.250
		-64	us	414.250	1085.750
		-62	us	1085.750	5715.500
		-61	us	5715.500	5890.500
		-62	us	5890.500	5901.250
		-63	us	5901.250	5924.500
		-64	us	5924.500	6057.500
		-65	us	6057.500	7621.500
		-64	us	7621.500	7627.500
		-63	us	7627.500	7774.000

TOOL DELAY (str4*)	-64	us	7774.000	BOTTOM	
	-65	us	TOP	414.250	
	-64	us	414.250	1085.750	
	-62	us	1085.750	5715.500	
	-61	us	5715.500	5890.500	
	-62	us	5890.500	5901.250	
	-63	us	5901.250	5924.500	
	-64	us	5924.500	6057.500	
	-65	us	6057.500	7621.500	
	-64	us	7621.500	7627.500	
TOOL DELAY (str5*)	-63	us	7627.500	7774.000	
	-64	us	7774.000	BOTTOM	
	-65	us	TOP	414.250	
	-64	us	414.250	1085.750	
	-62	us	1085.750	5715.500	
	-61	us	5715.500	5890.500	
	-62	us	5890.500	5901.250	
	-63	us	5901.250	5924.500	
	-64	us	5924.500	6057.500	
	-65	us	6057.500	7621.500	
TOOL DELAY (str6*)	-64	us	7621.500	7627.500	
	-63	us	7627.500	7774.000	
	-64	us	7774.000	BOTTOM	
	-65	us	TOP	414.250	
	-64	us	414.250	1085.750	
	-62	us	1085.750	5715.500	
	-61	us	5715.500	5890.500	
	-62	us	5890.500	5901.250	
	-63	us	5901.250	5924.500	
	-64	us	5924.500	6057.500	
TOOL DELAY (str7*)	-65	us	6057.500	7621.500	
	-64	us	7621.500	7627.500	
	-63	us	7627.500	7774.000	
	-64	us	7774.000	BOTTOM	
	-65	us	TOP	414.250	
	-64	us	414.250	1085.750	
	-62	us	1085.750	5715.500	
	-61	us	5715.500	5890.500	
	-62	us	5890.500	5901.250	
	-63	us	5901.250	5924.500	
TOOL DELAY (str8*)	-64	us	5924.500	6057.500	
	-65	us	6057.500	7621.500	
	-64	us	7621.500	7627.500	
	-63	us	7627.500	7774.000	
	-64	us	7774.000	BOTTOM	
	-65	us	TOP	414.250	
	-64	us	414.250	1085.750	
	-62	us	1085.750	5715.500	
	-61	us	5715.500	5890.500	
	-62	us	5890.500	5901.250	
TOOL DELAY (strn*)	-63	us	5901.250	5924.500	
	-64	us	5924.500	6057.500	
	-65	us	6057.500	7621.500	
	-64	us	7621.500	7627.500	
	-63	us	7627.500	7774.000	
	-64	us	7774.000	BOTTOM	
	-65	us	TOP	414.250	
	-64	us	414.250	1085.750	
	-62	us	1085.750	5715.500	
	-61	us	5715.500	5890.500	
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

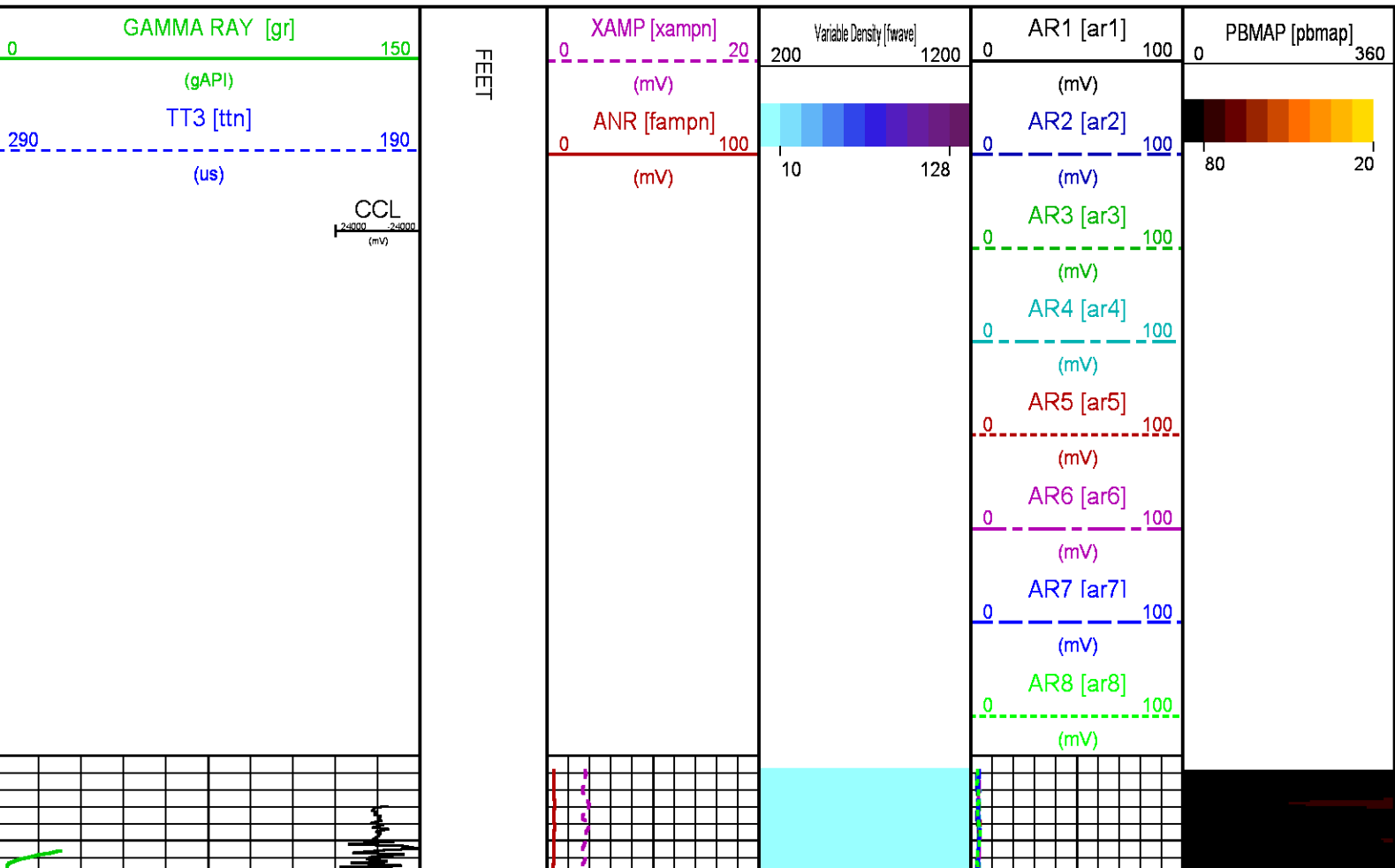
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
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F1:AR2	Aug 28 09:44:42 2017	FIXED GATE AMPLITUDE T-R2
F1:AR3	Aug 28 09:44:42 2017	FIXED GATE AMPLITUDE T-R3
F1:AR4	Aug 28 09:44:42 2017	FIXED GATE AMPLITUDE T-R4
F1:AR5	Aug 28 09:44:42 2017	FIXED GATE AMPLITUDE T-R5
F1:AR6	Aug 28 09:44:42 2017	FIXED GATE AMPLITUDE T-R6
F1:AR7	Aug 28 09:44:42 2017	FIXED GATE AMPLITUDE T-R7
F1:AR8	Aug 28 09:44:42 2017	FIXED GATE AMPLITUDE T-R8
F1:CCL	Aug 28 09:44:42 2017	CASING COLLAR LOCATOR
F1:FAMPN	Aug 28 09:44:42 2017	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Aug 28 09:44:42 2017	FAR WAVE FORM
F1:GR	Aug 28 09:44:42 2017	GAMMA RAY
F1:PBMAP	Aug 28 09:44:42 2017	PERCENT BOND CEMENT MAP
F1:TTN	Aug 28 09:44:42 2017	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Aug 28 09:44:42 2017	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

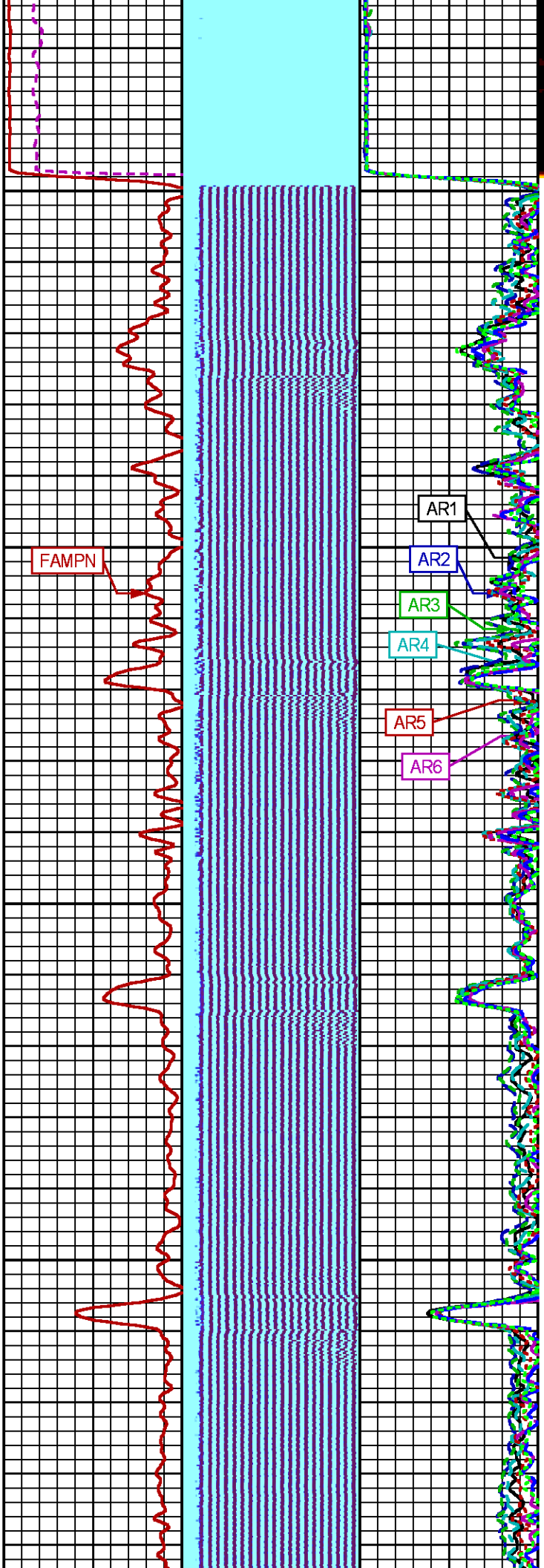
CURVE MEASURE POINT OFFSET

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_01W/BRUTON_19_01W_RAL_MAIN.fvpdf [5"/100' Scale]
Plot Interval : 11.5 - 8064.25 Feet

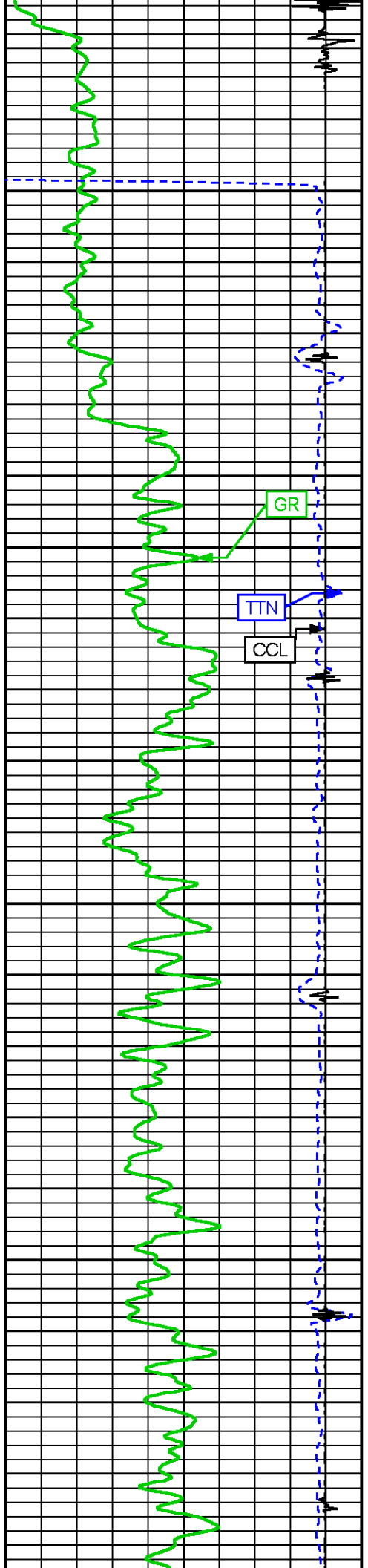
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Company : LARAMIE ENERGY
Well : BRUTON 19-01W
Field : VEGA
File Interval : 10.5 - 8065.5 Feet
OCT : n012g

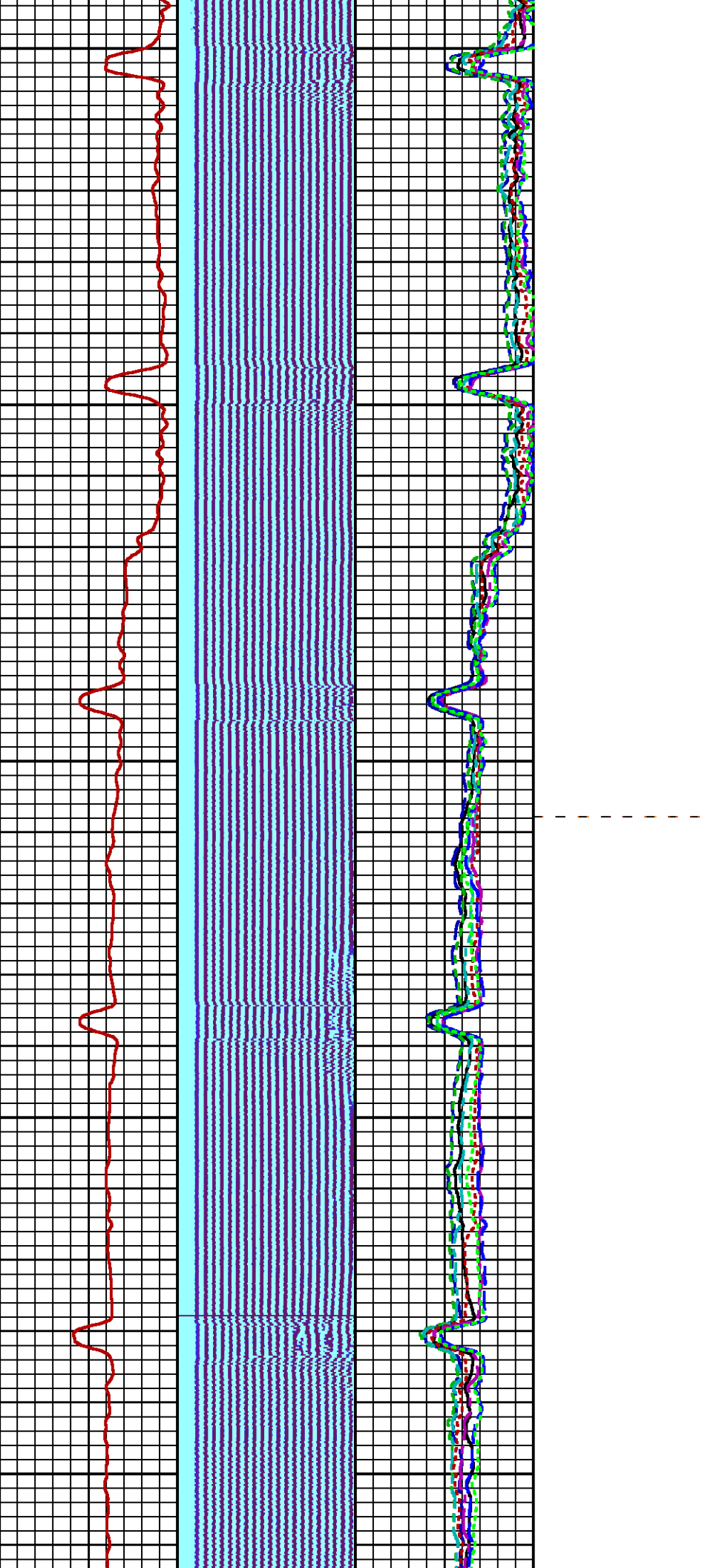




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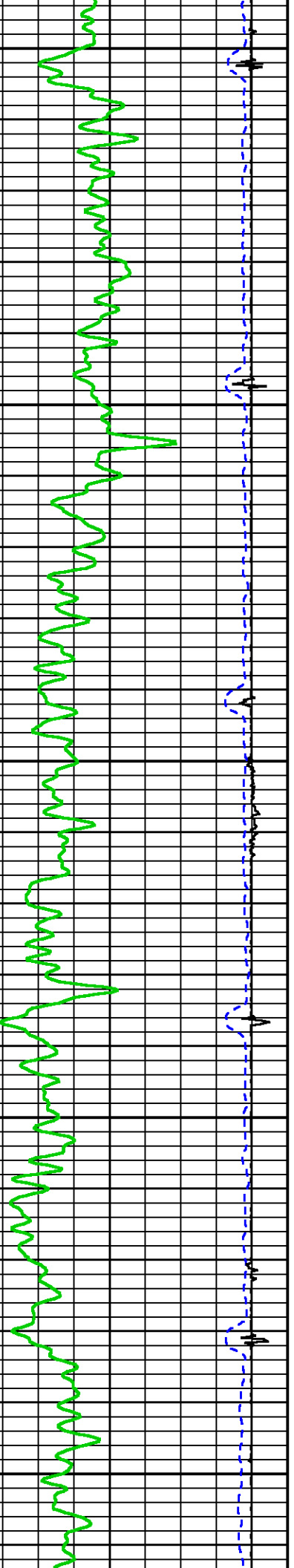
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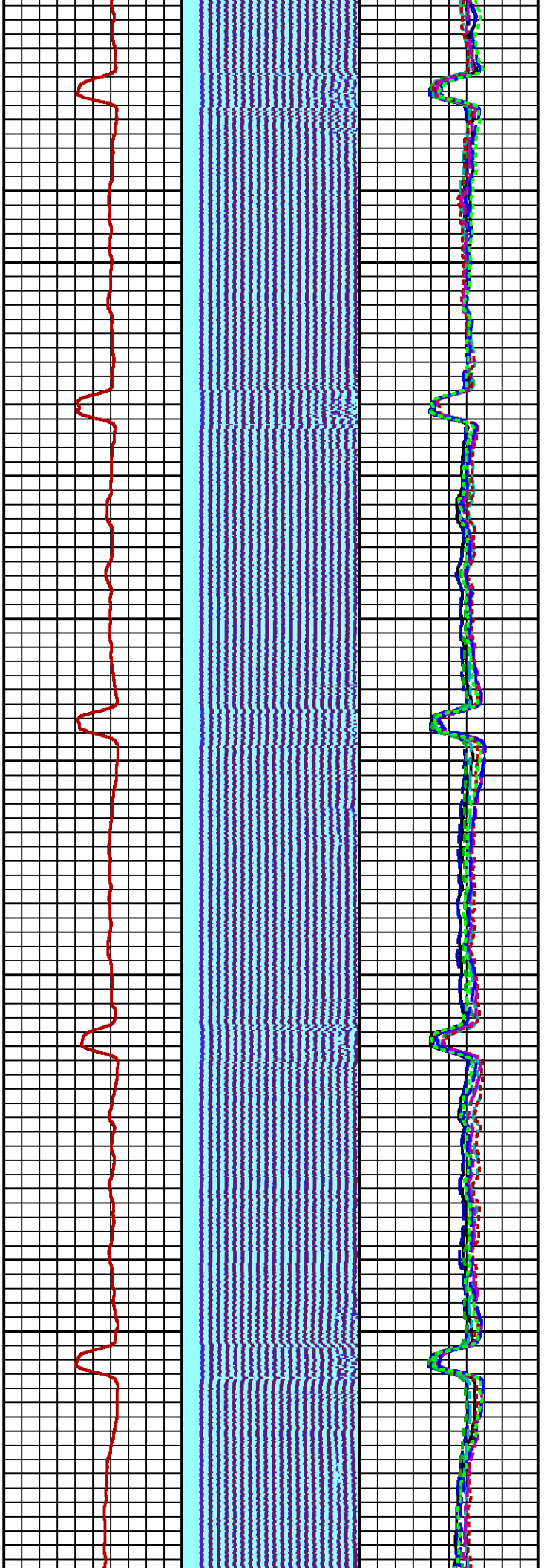




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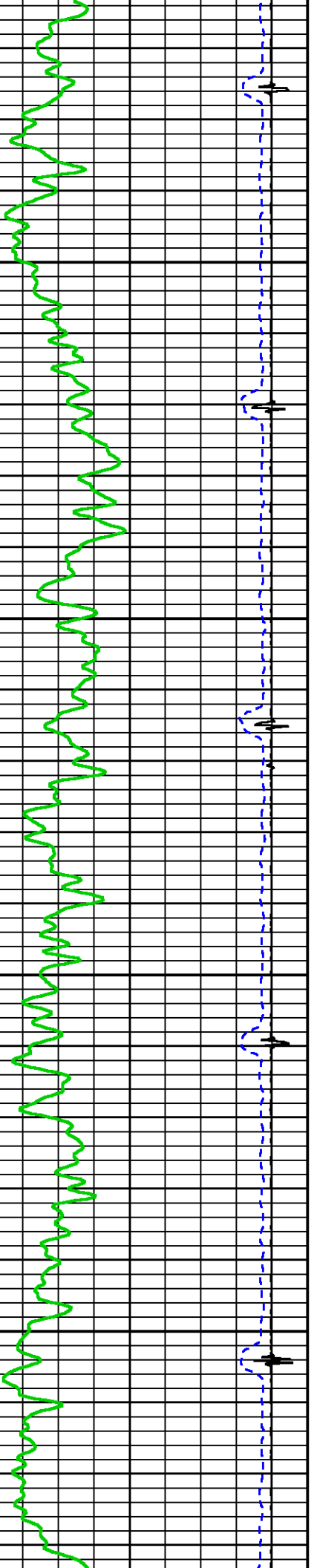
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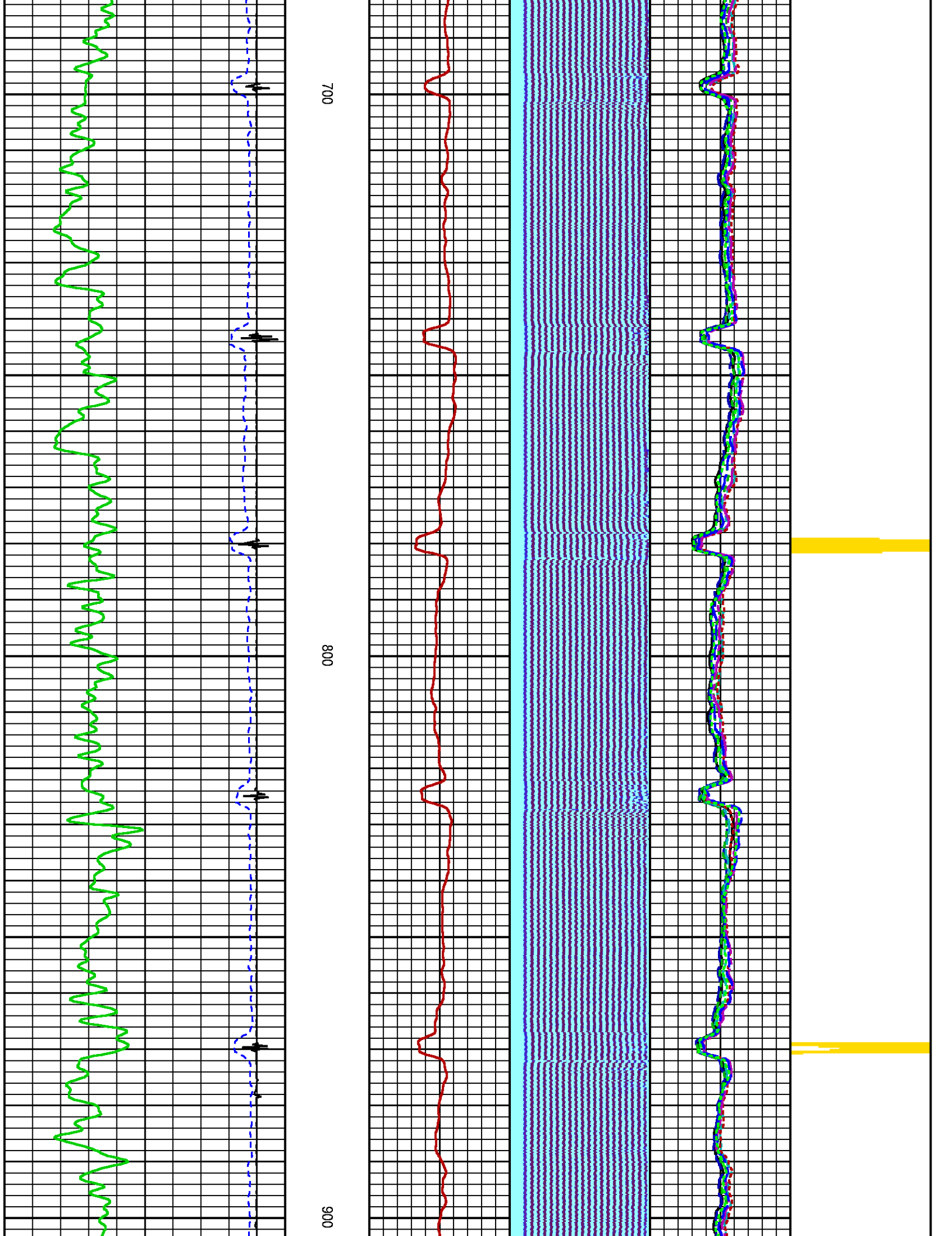


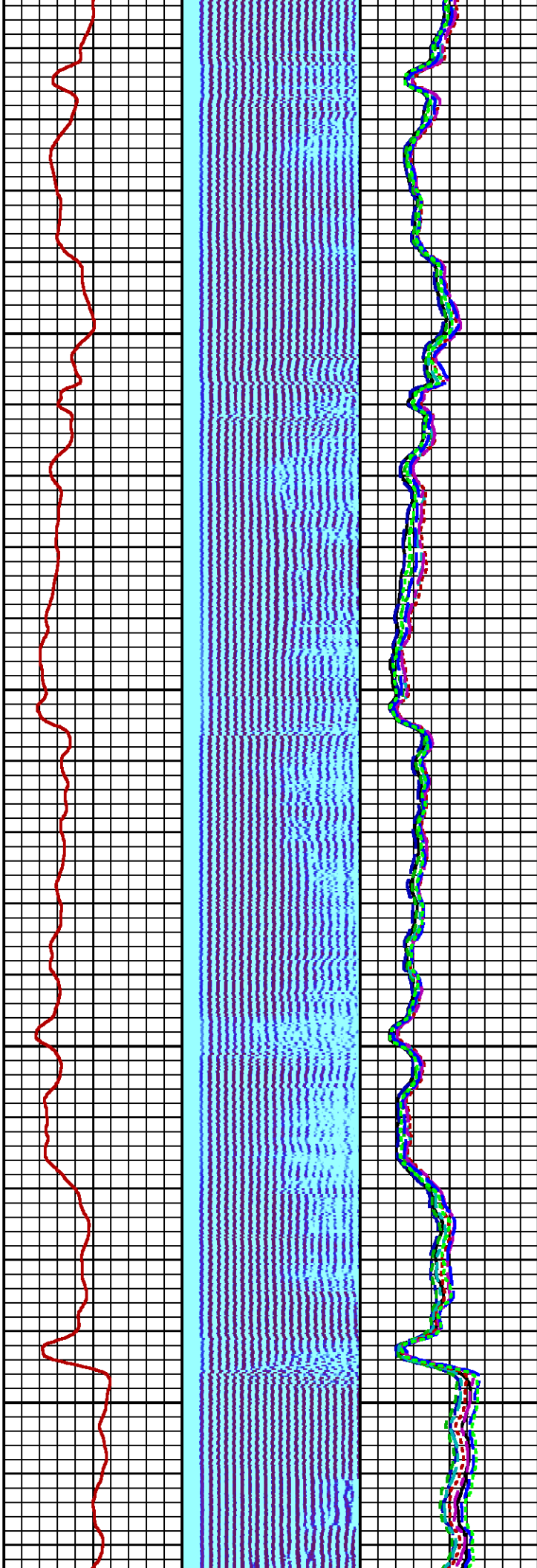
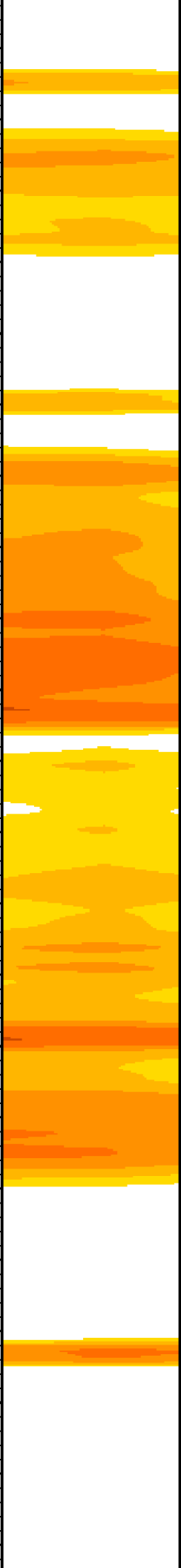


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600

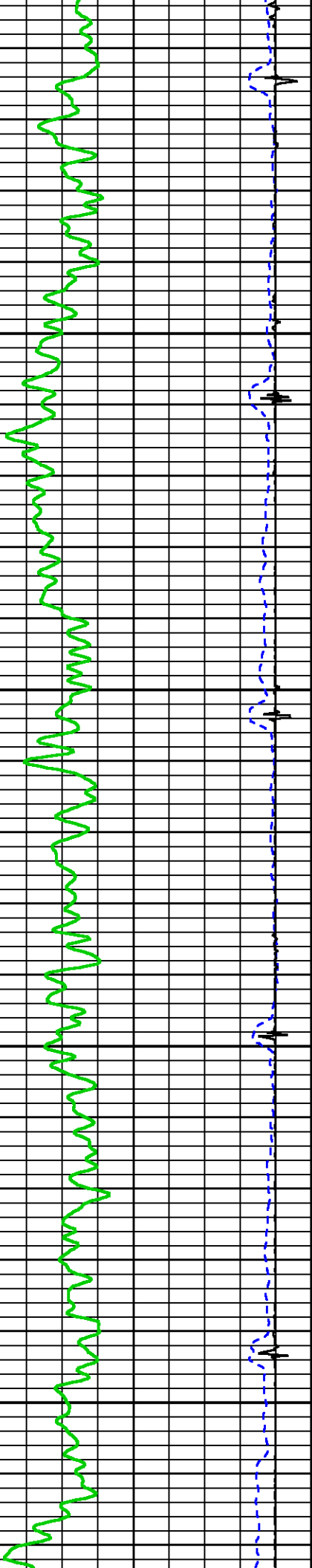


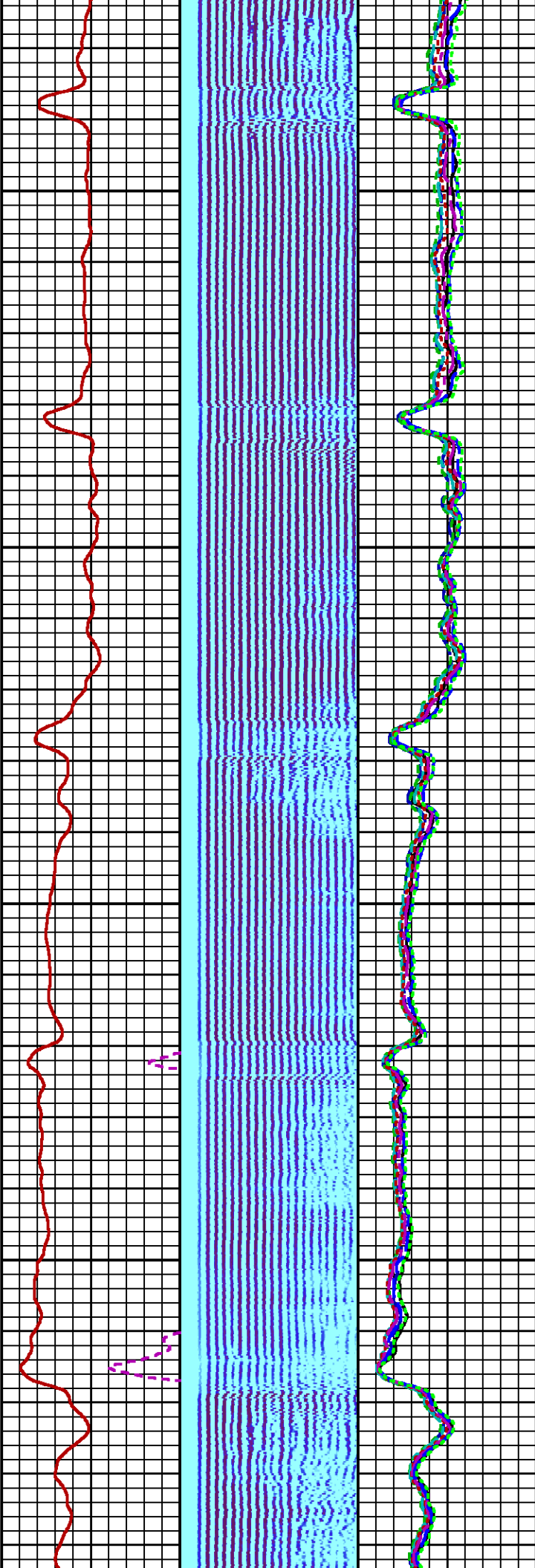




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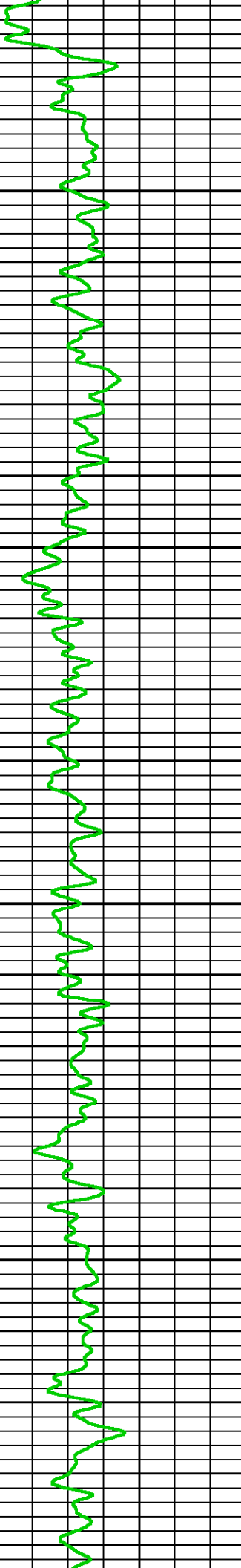
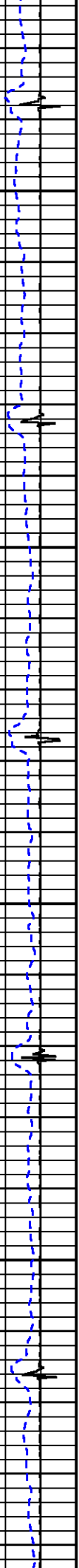
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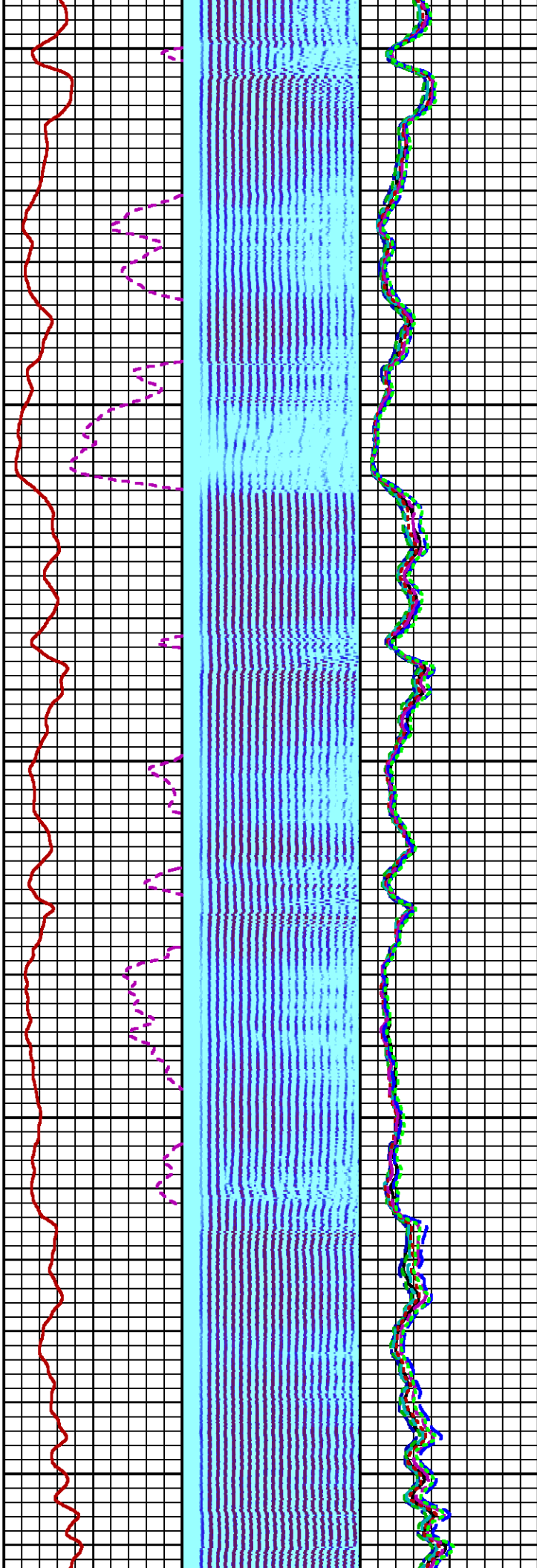
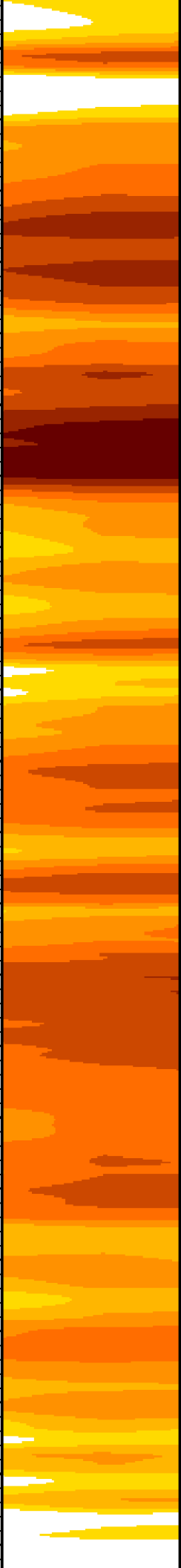




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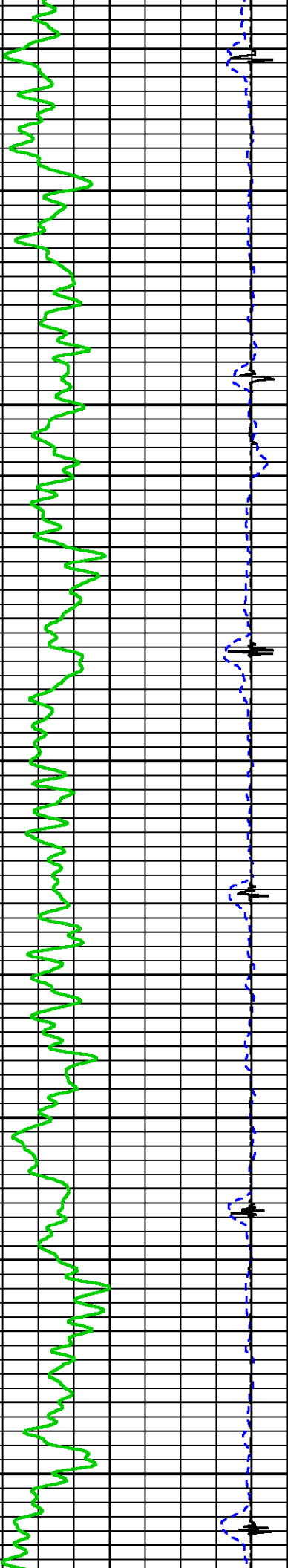
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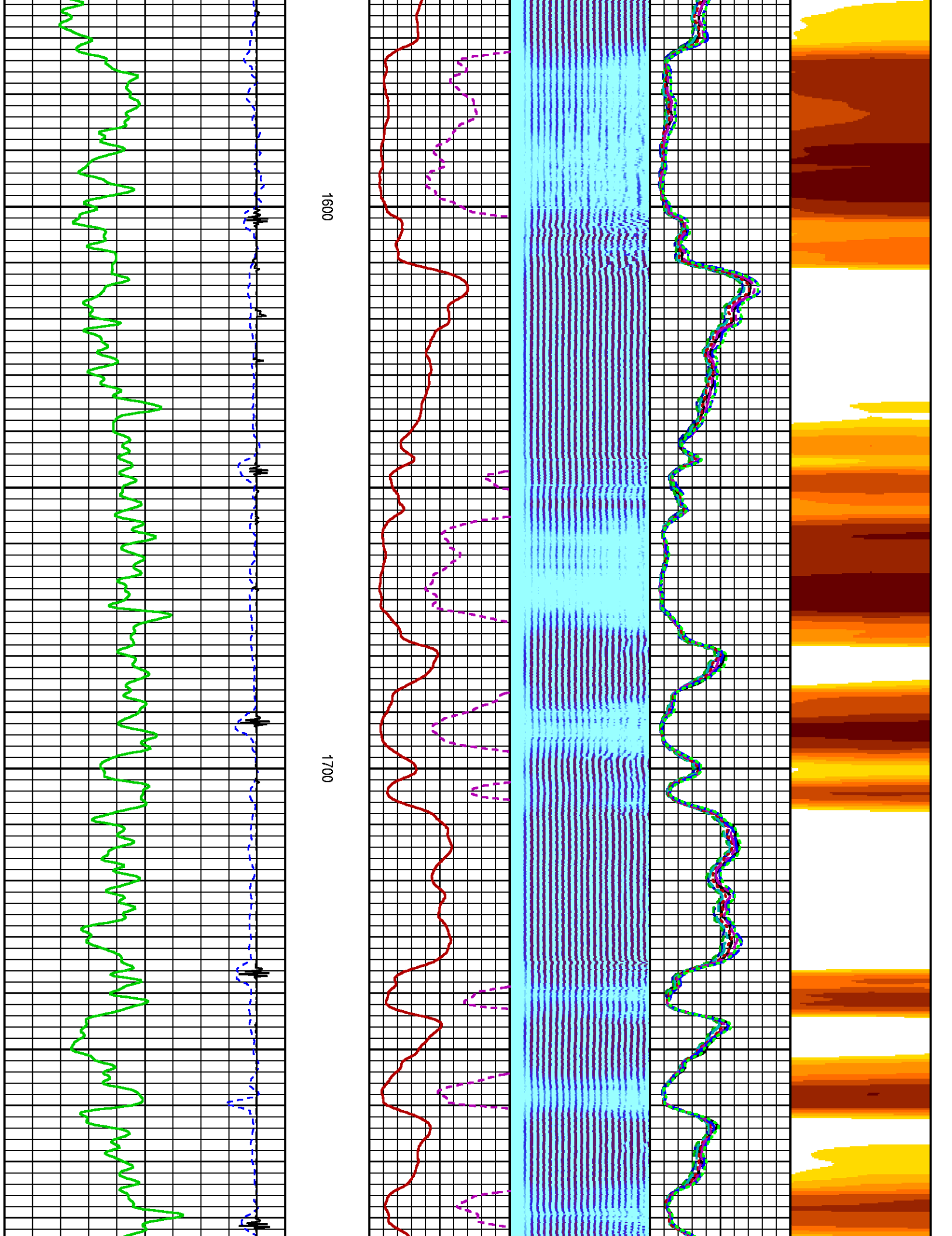


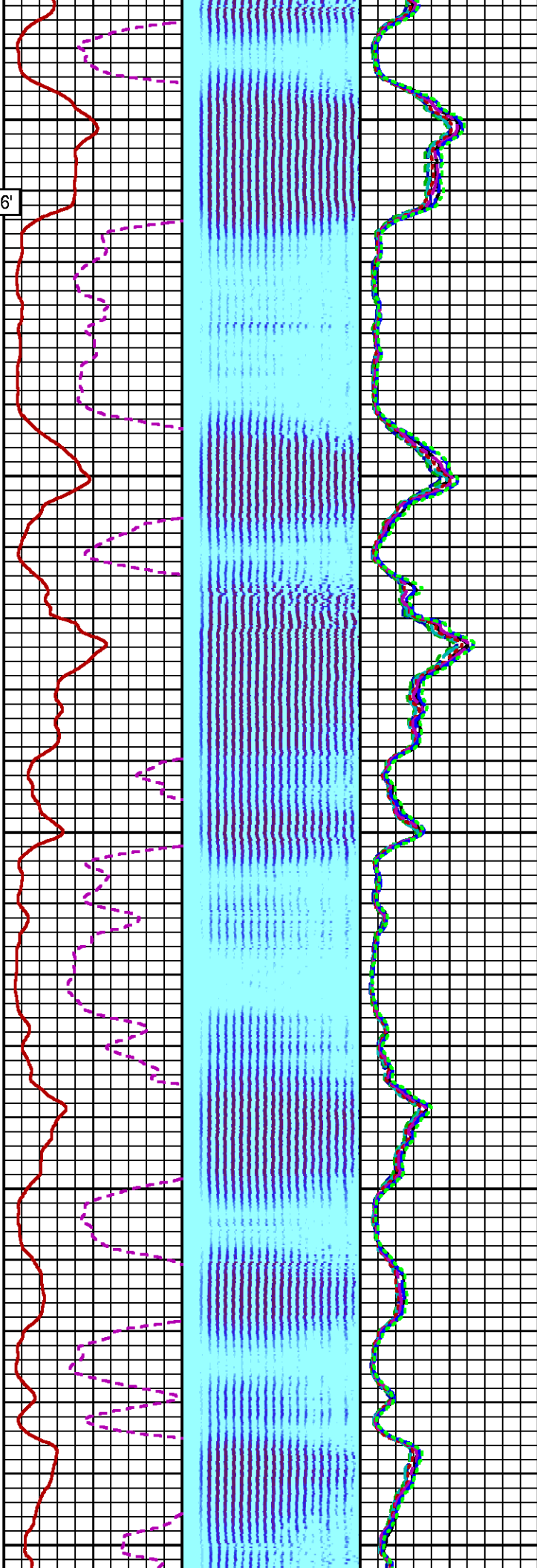
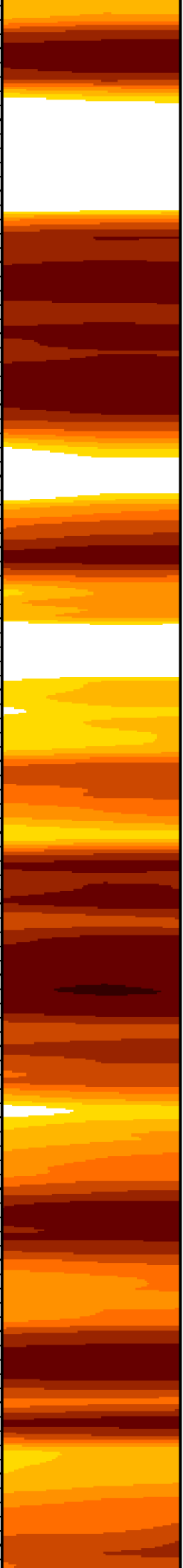


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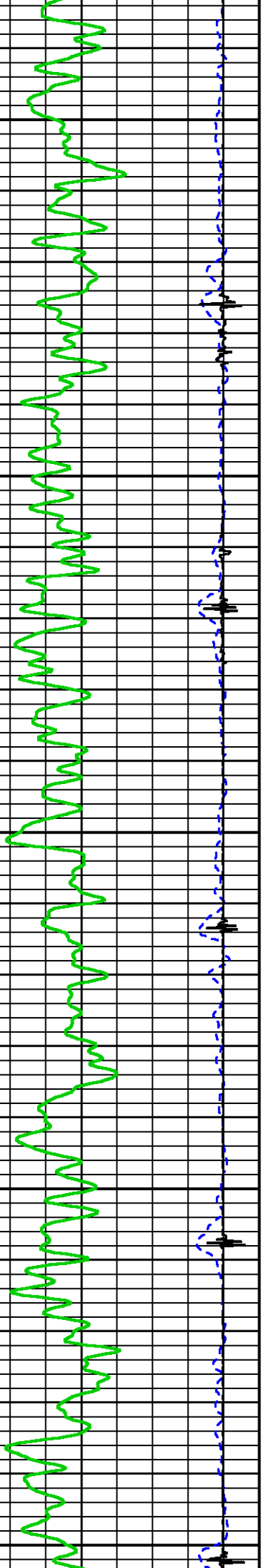


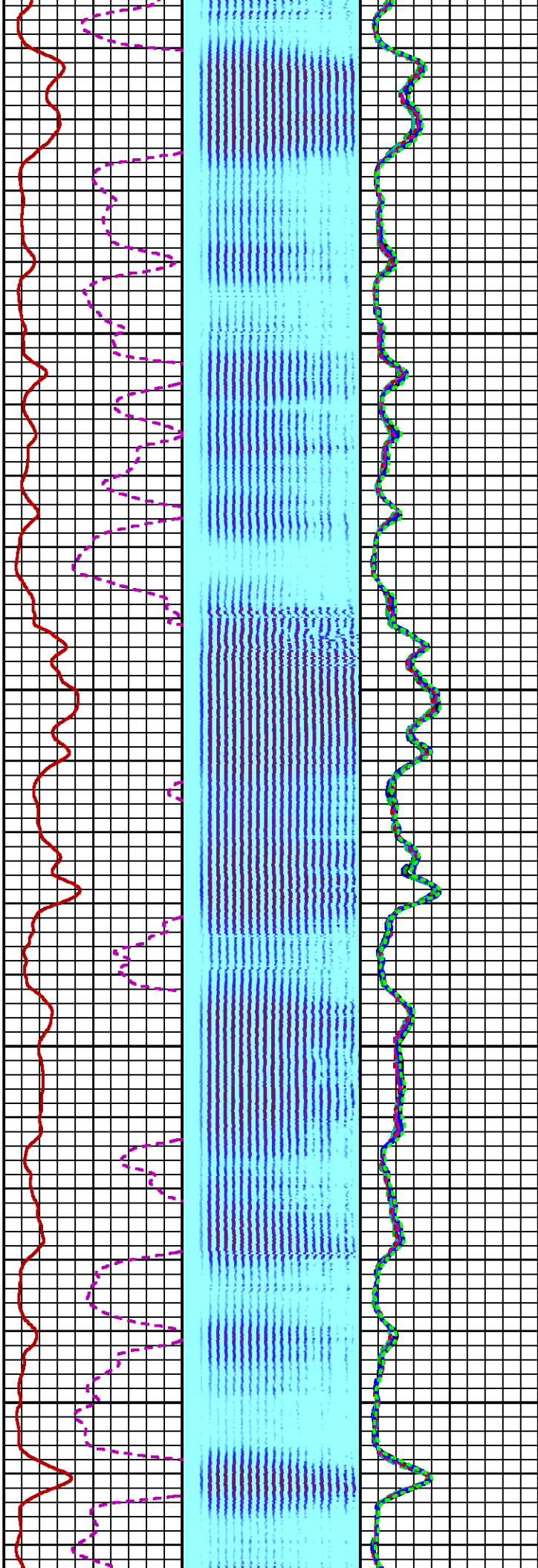
1800

TOC @ 1816'

1900

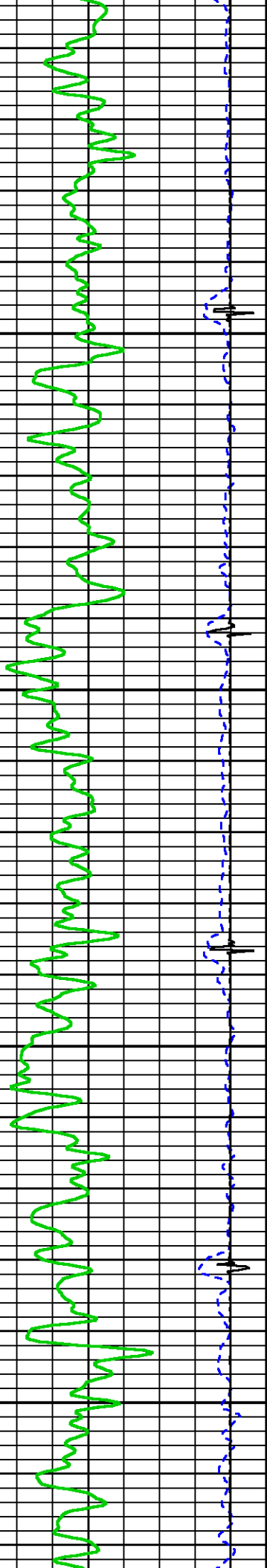
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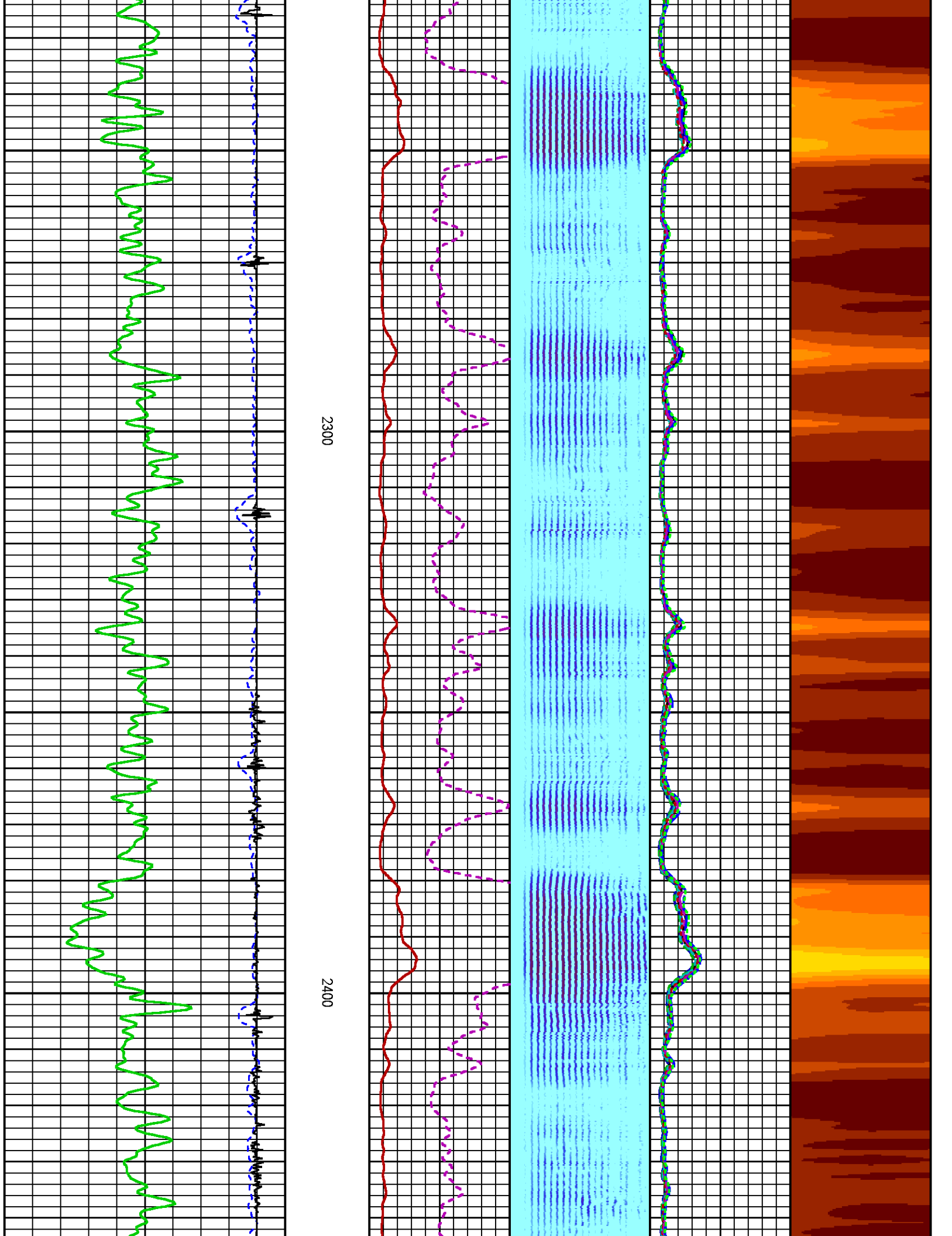


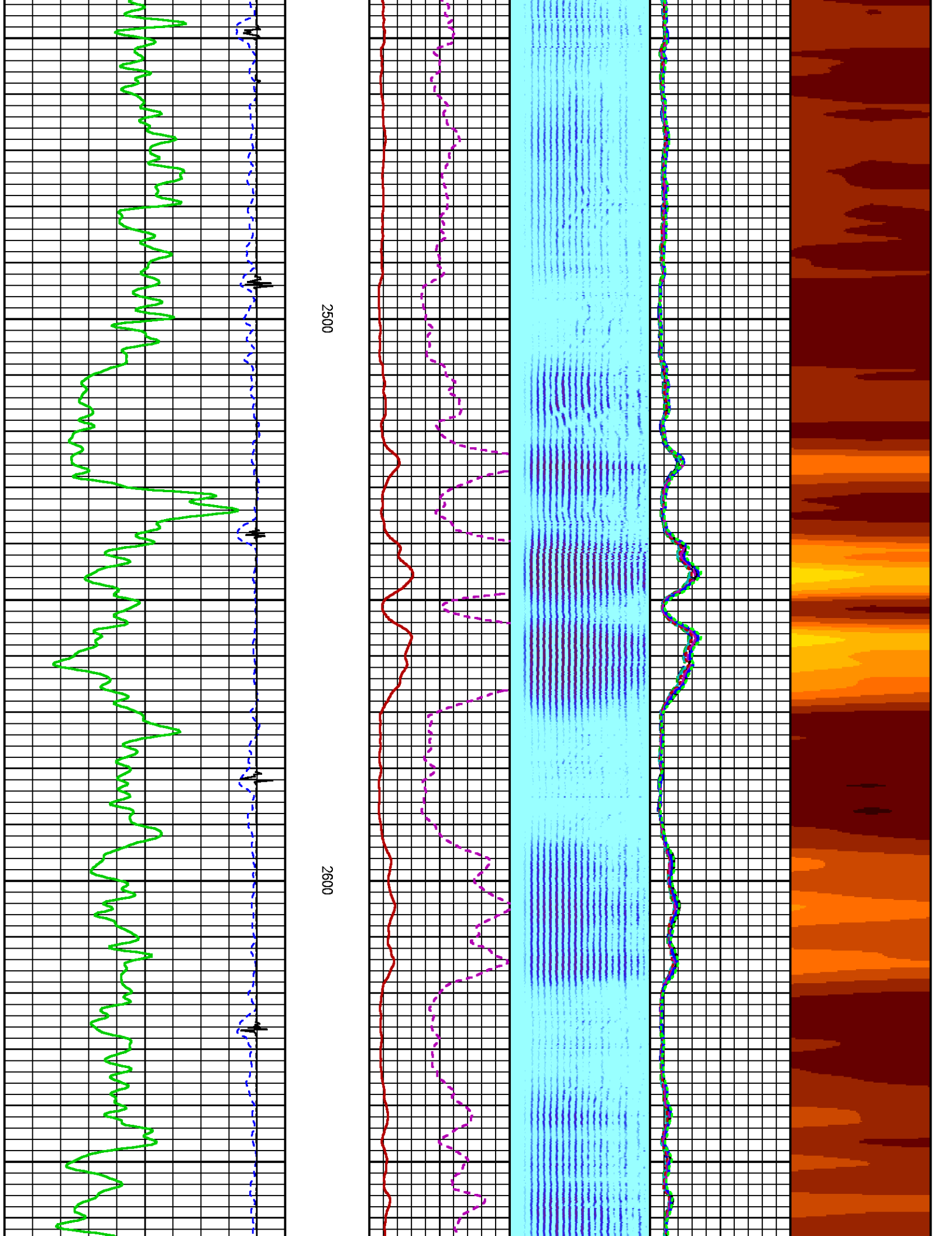


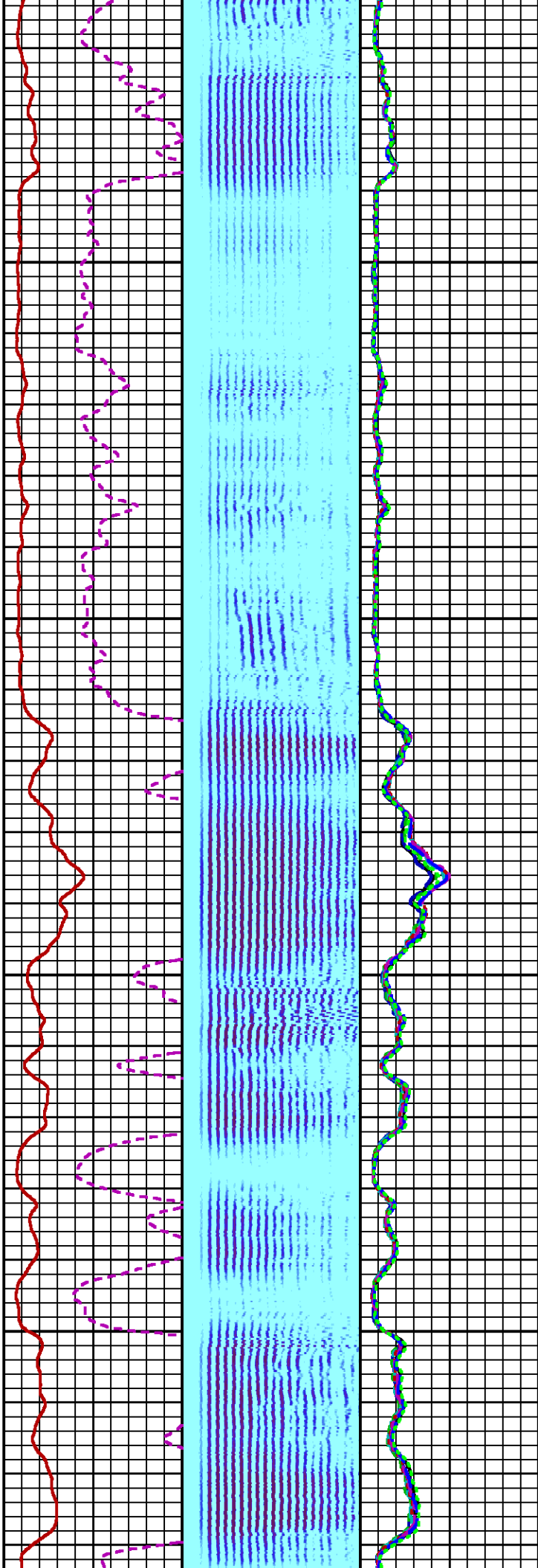
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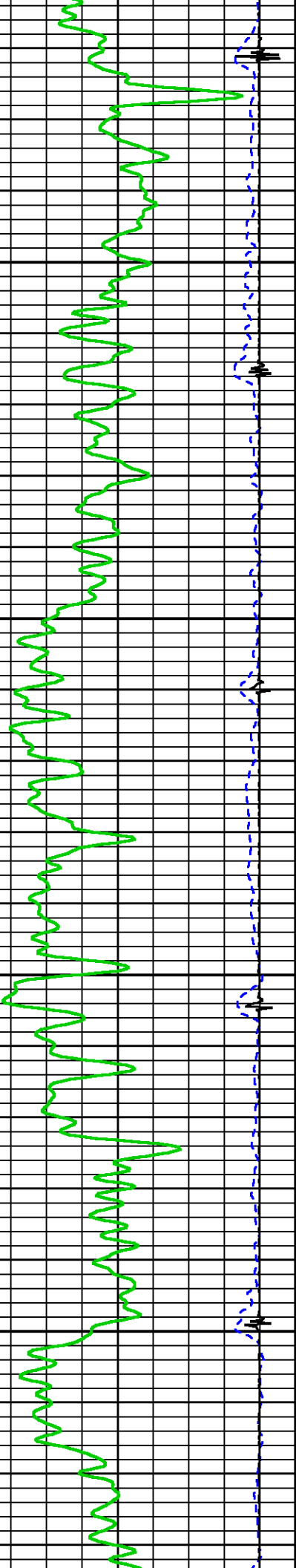


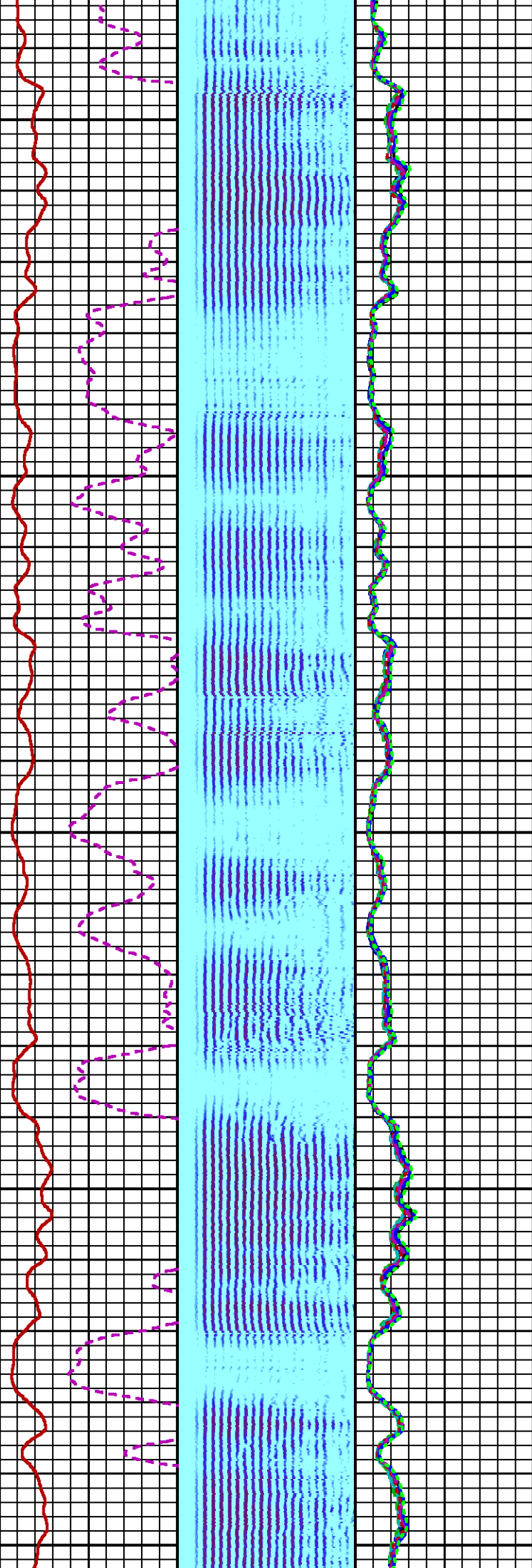
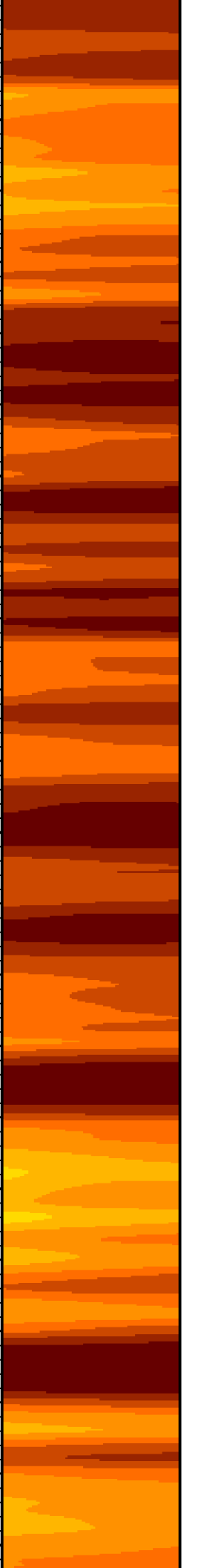




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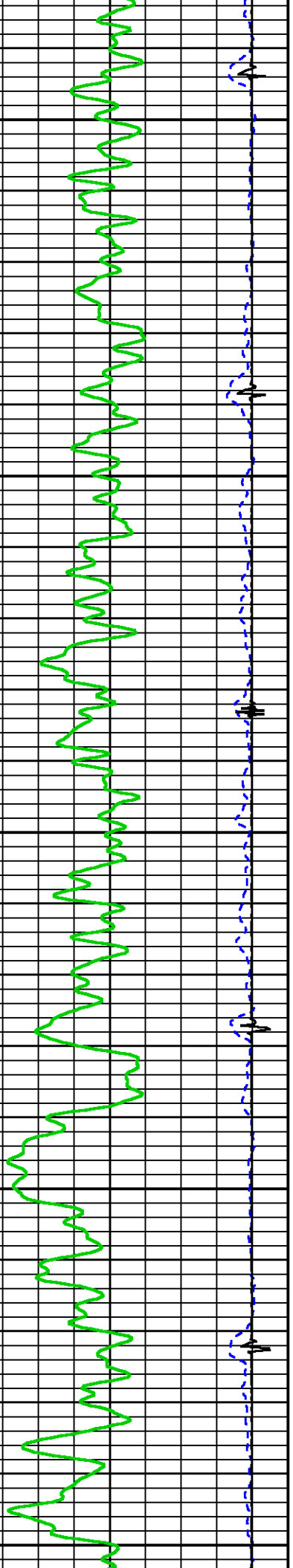


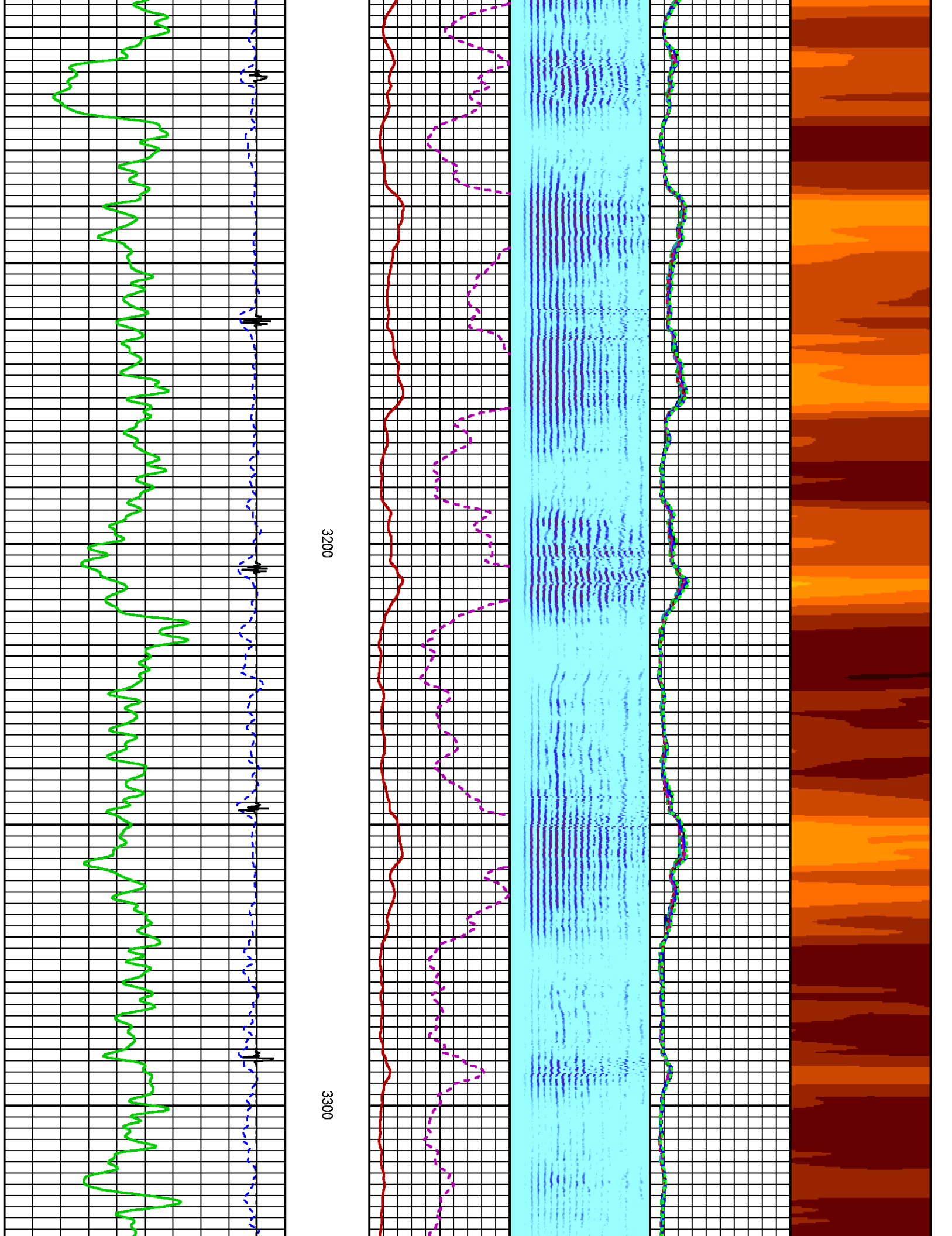


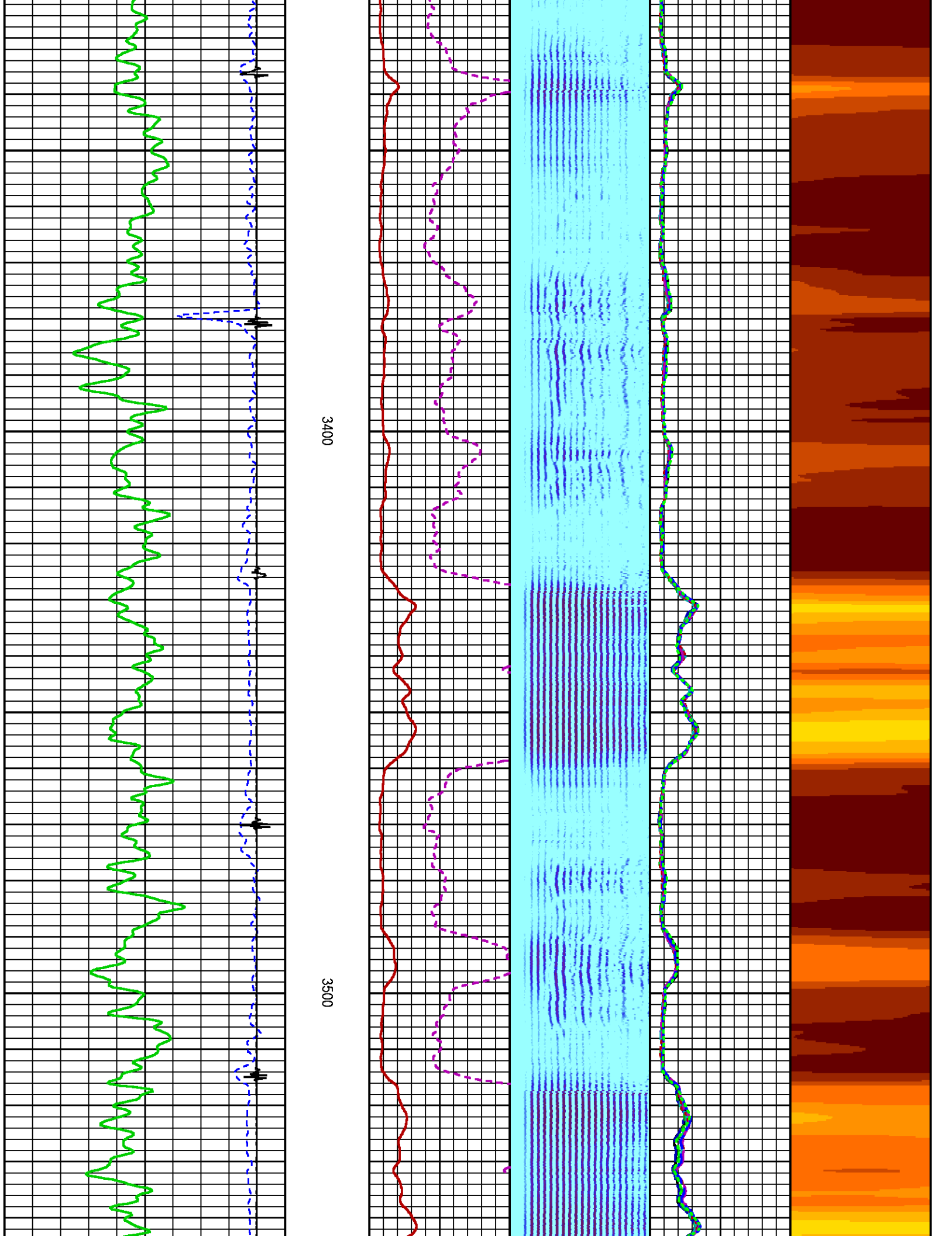
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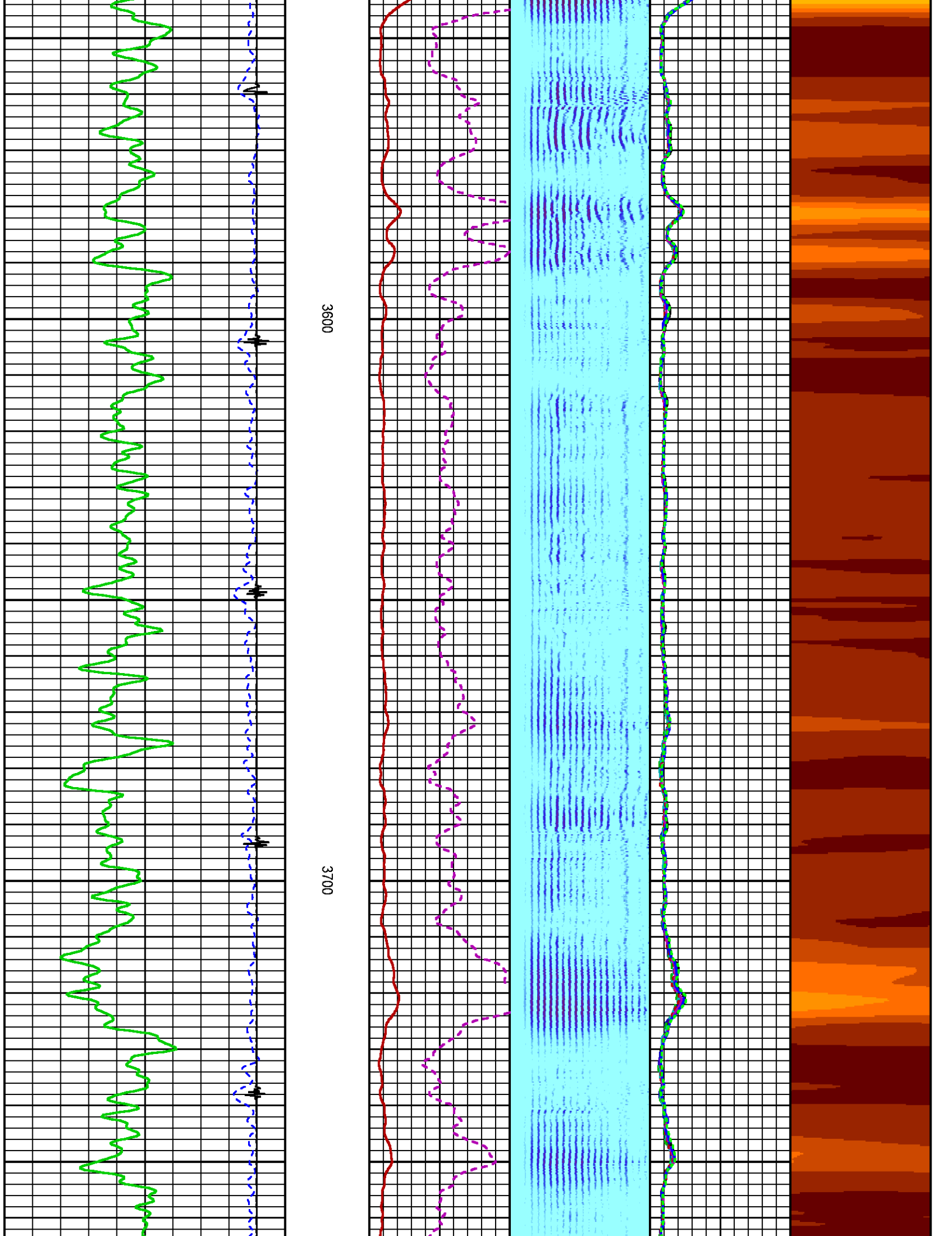
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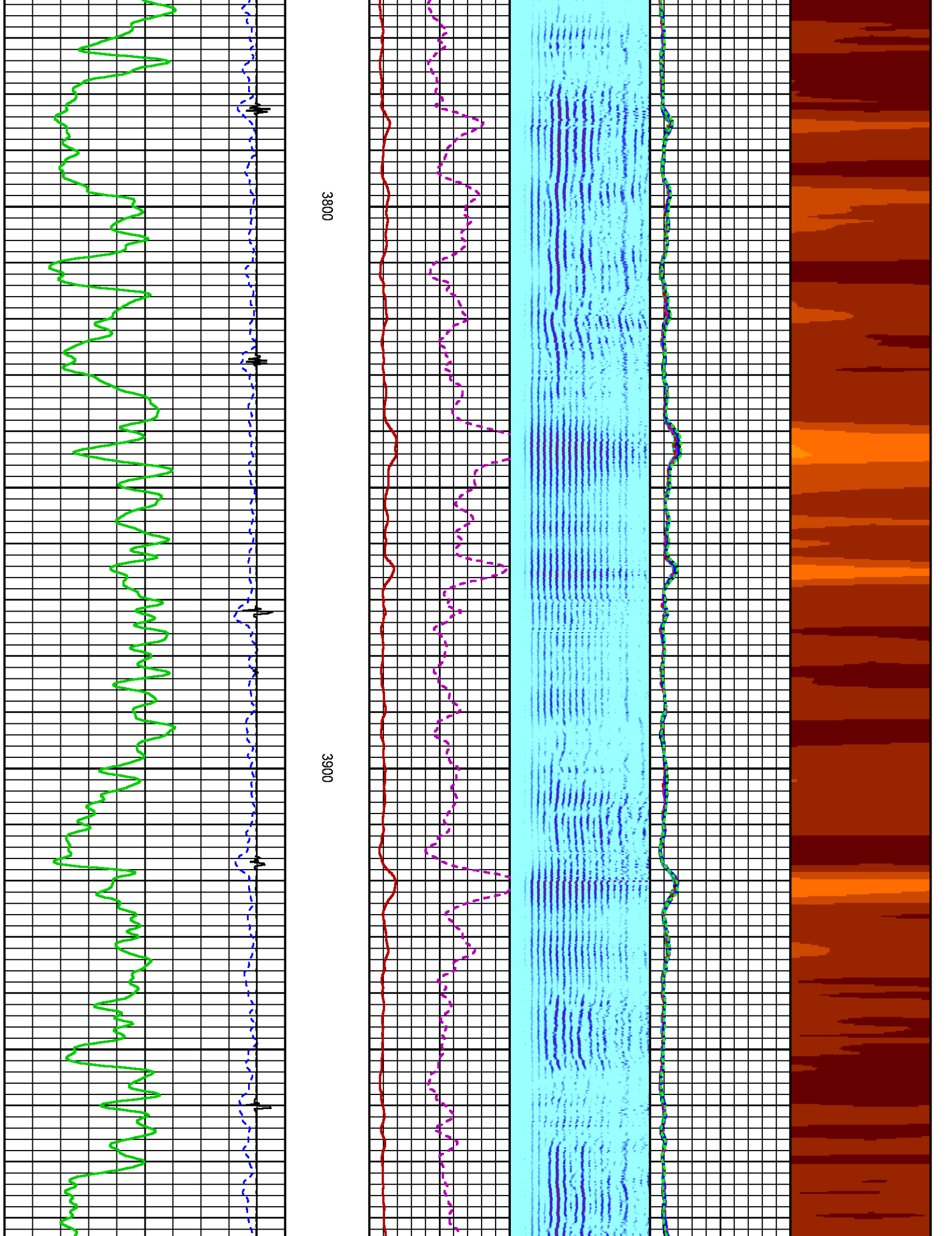
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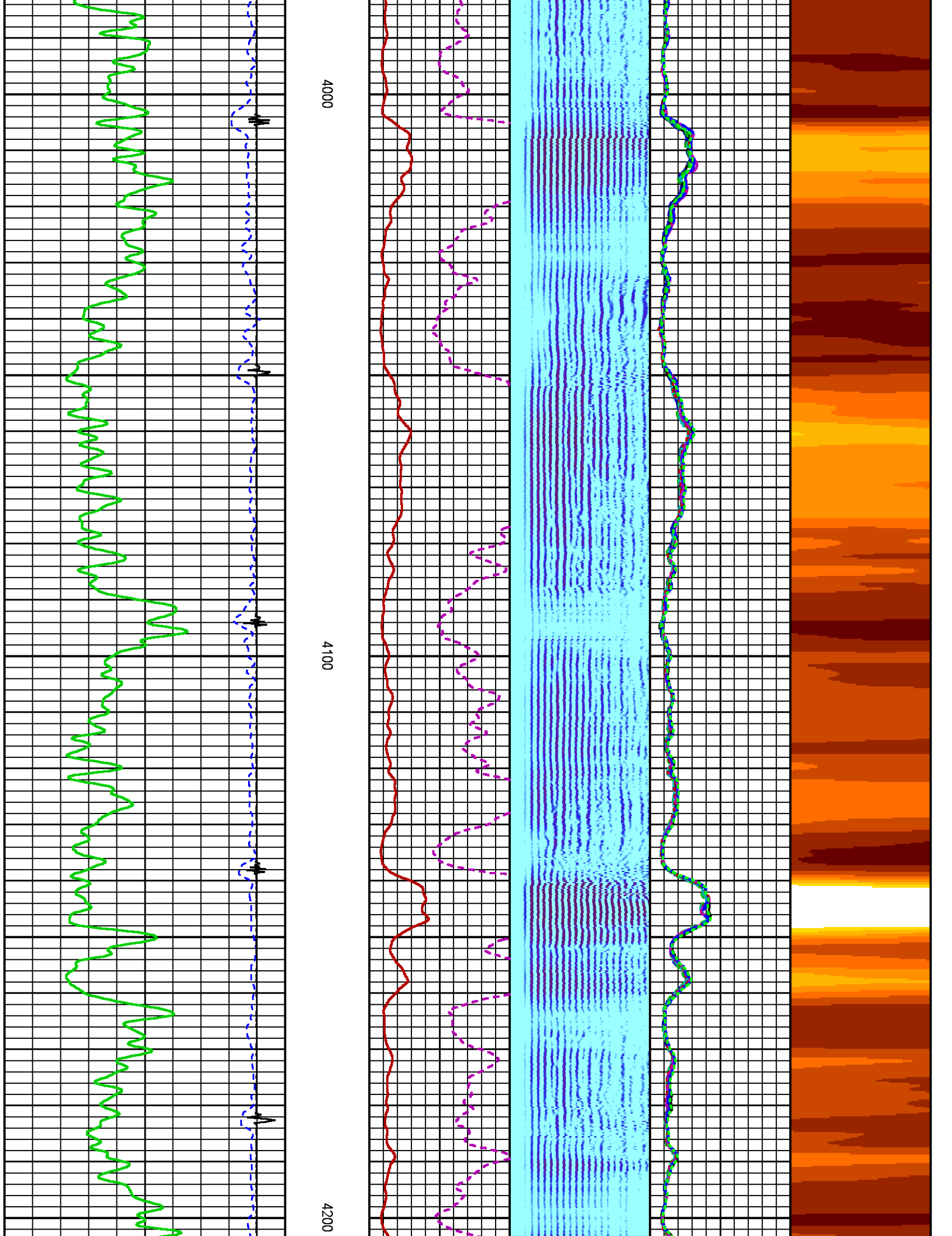


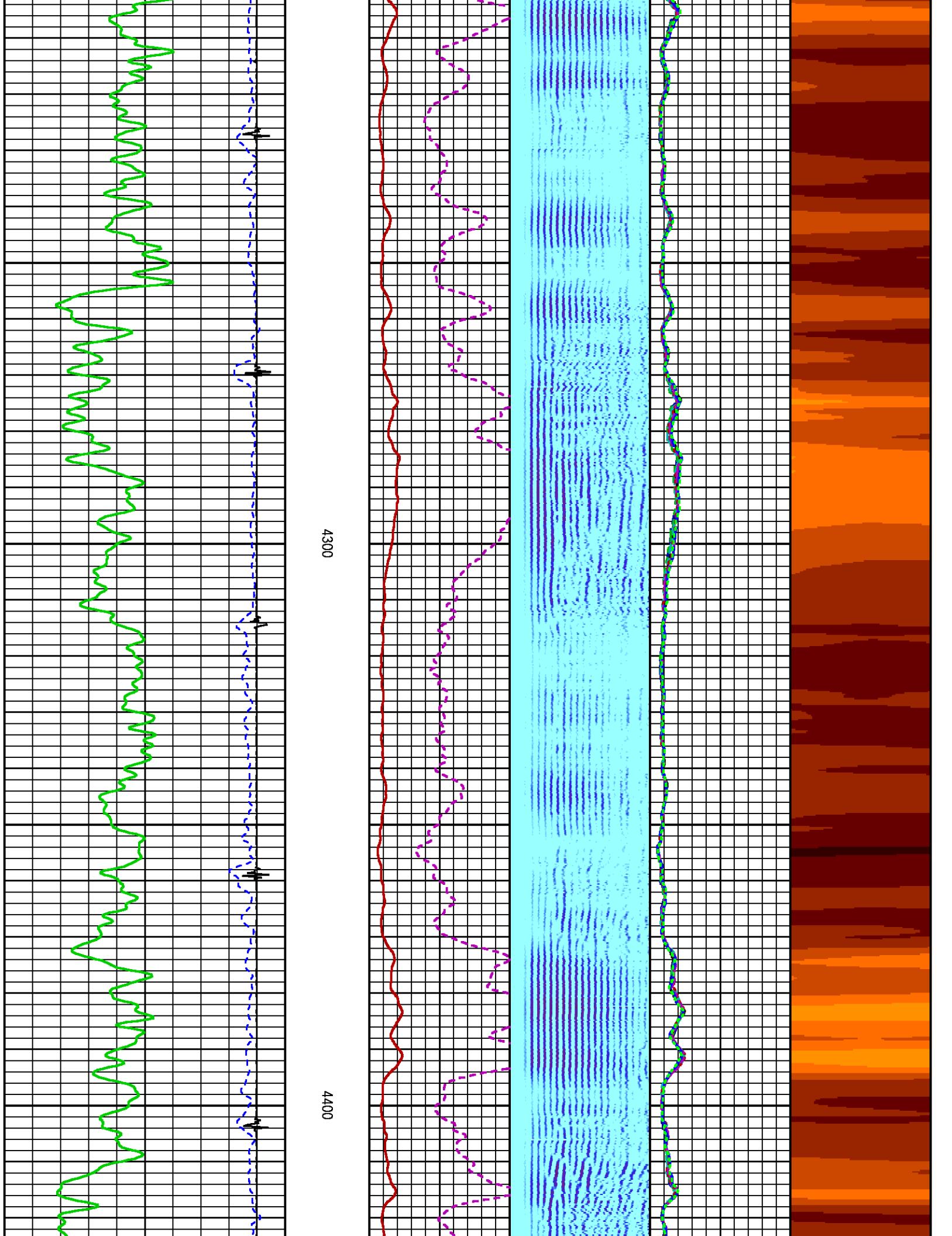


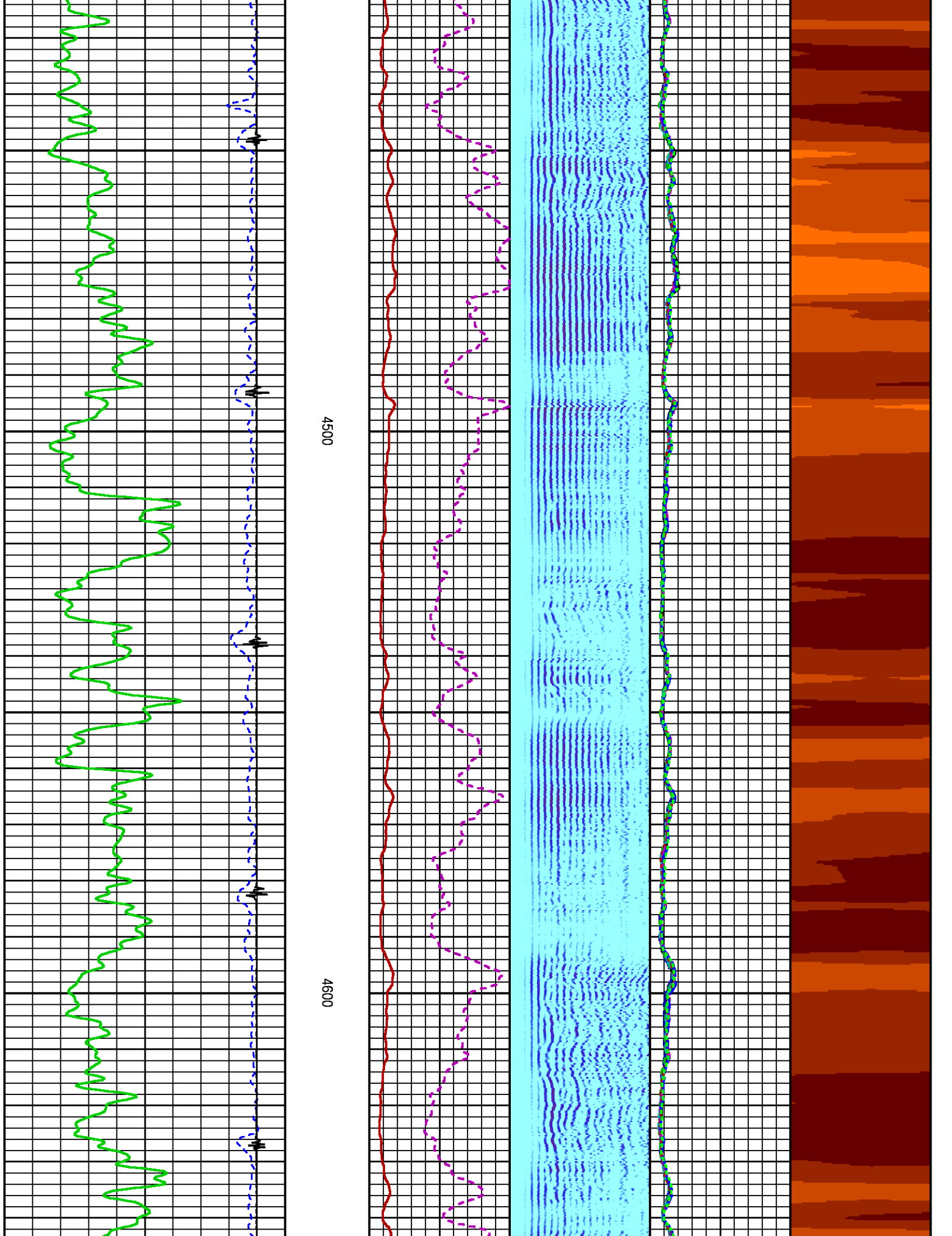


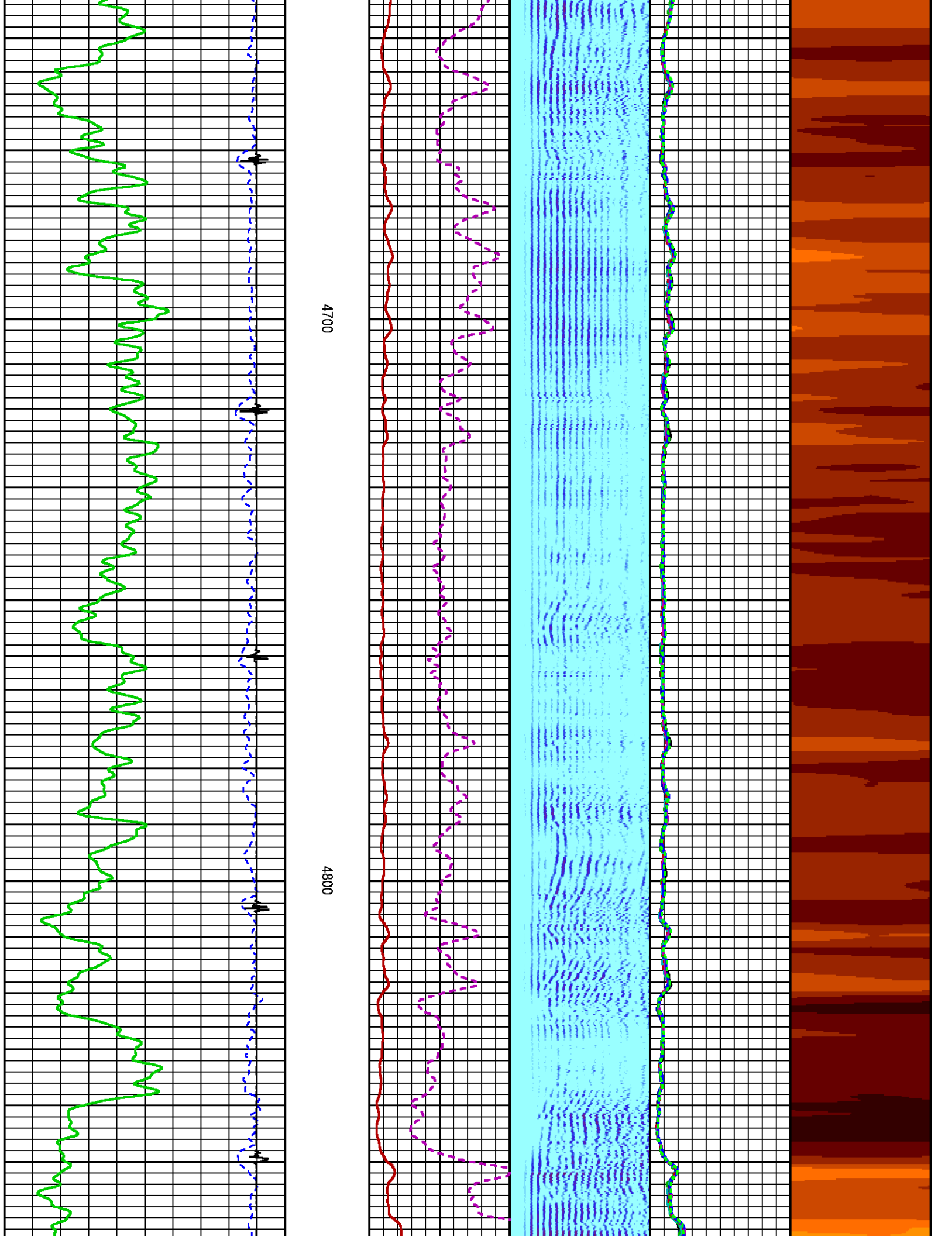


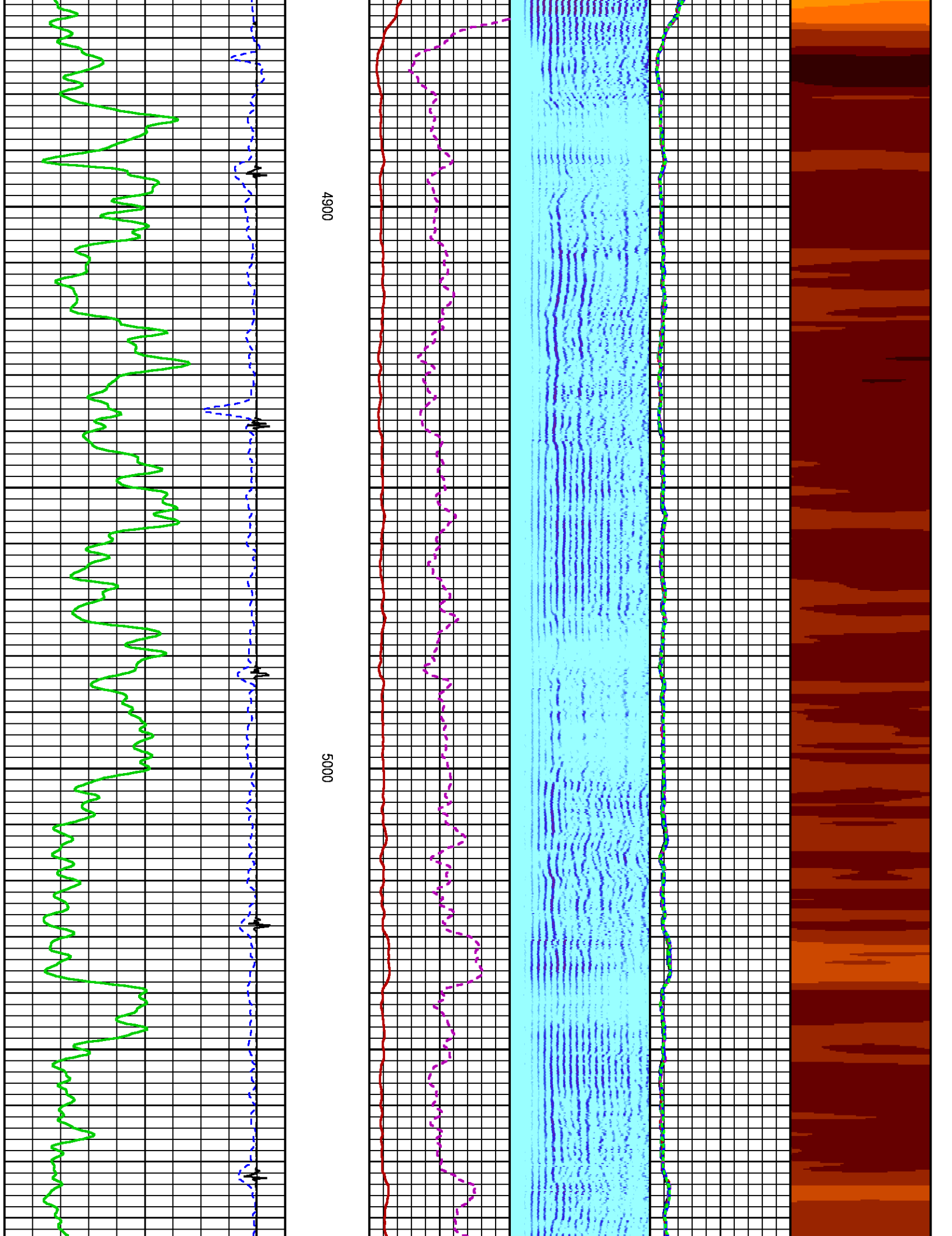


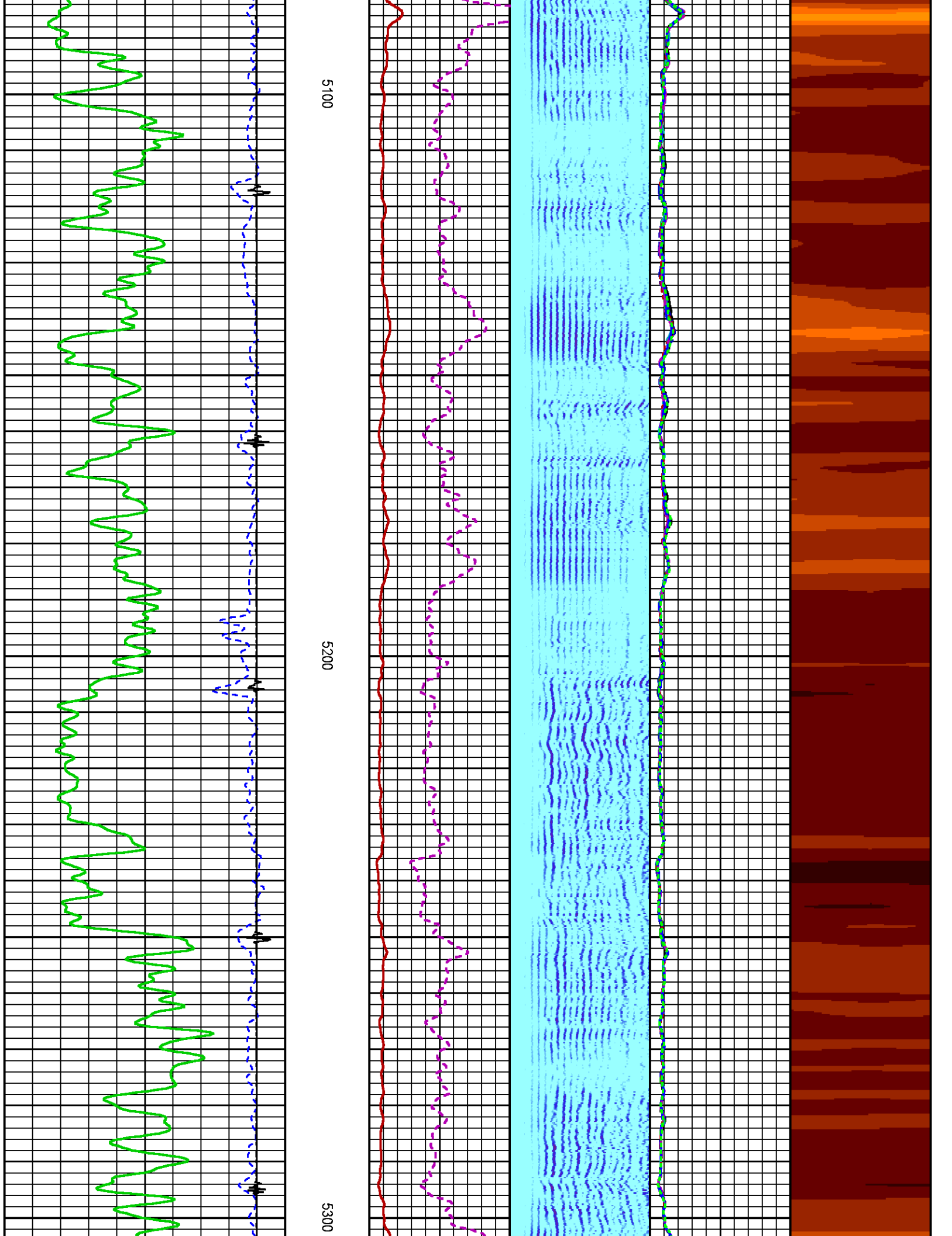


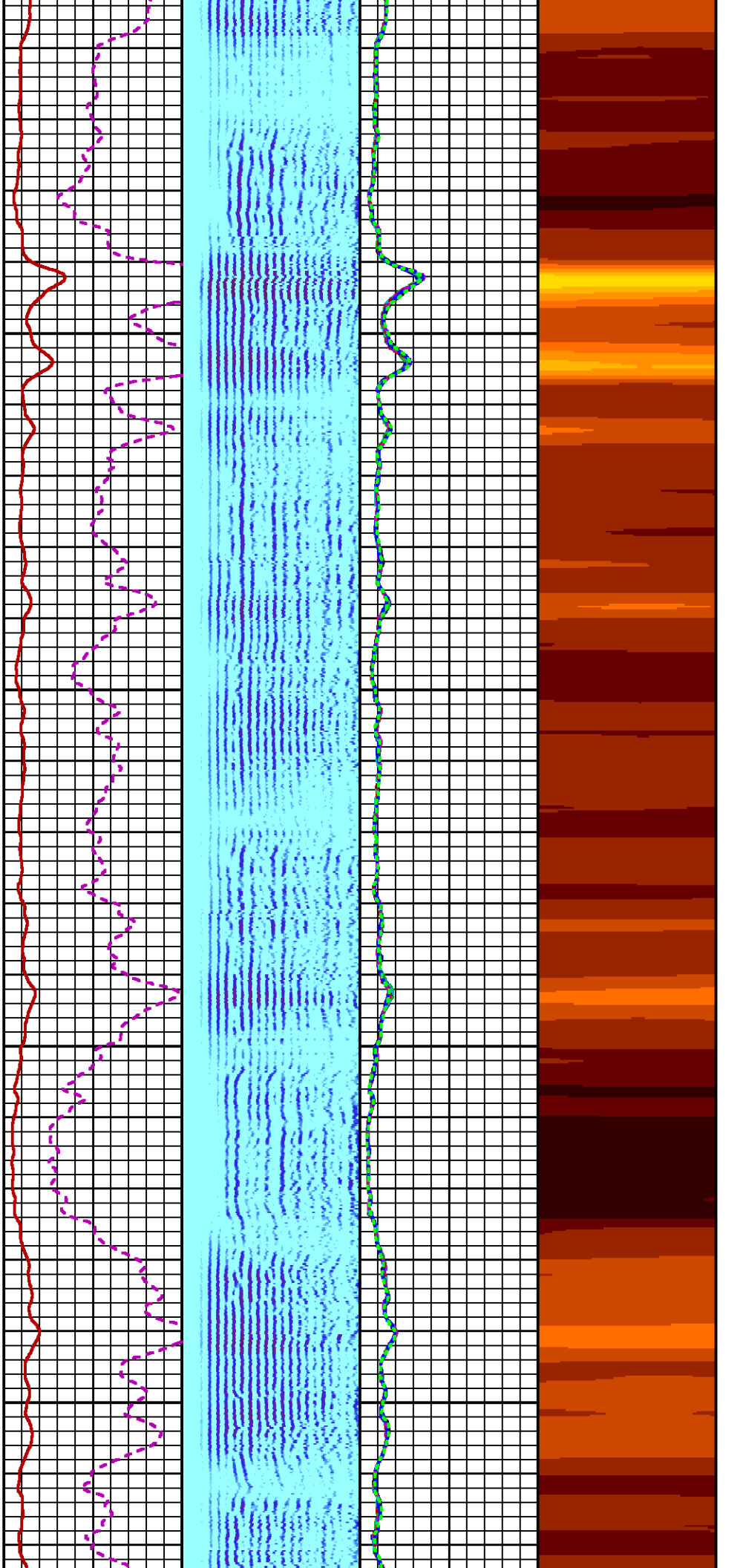






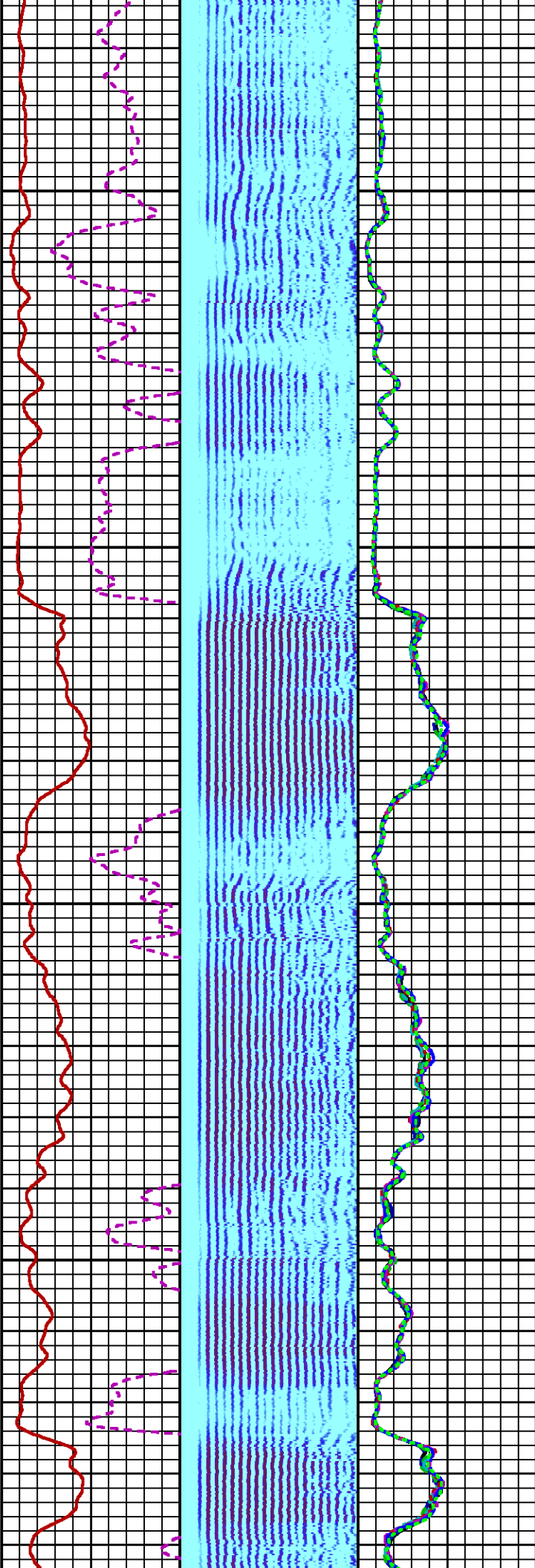
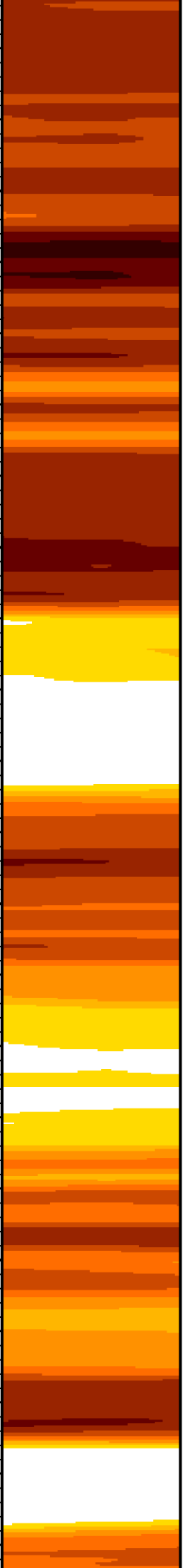






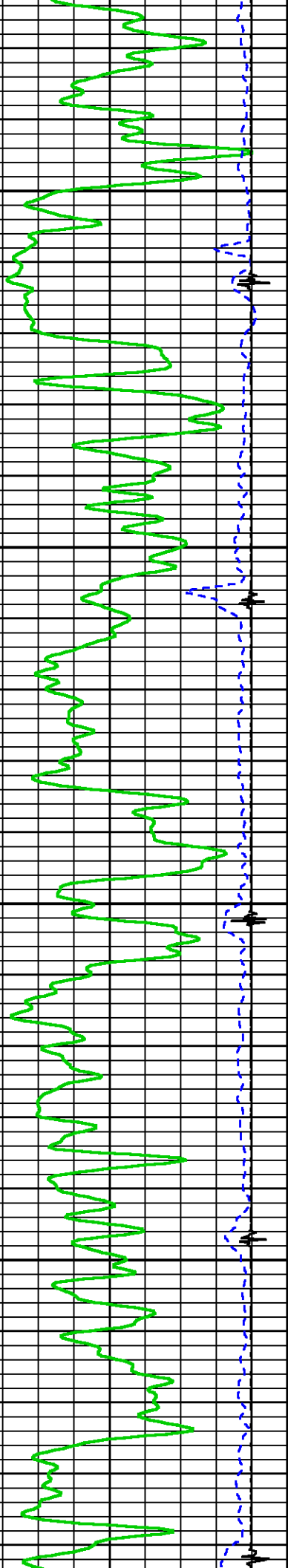
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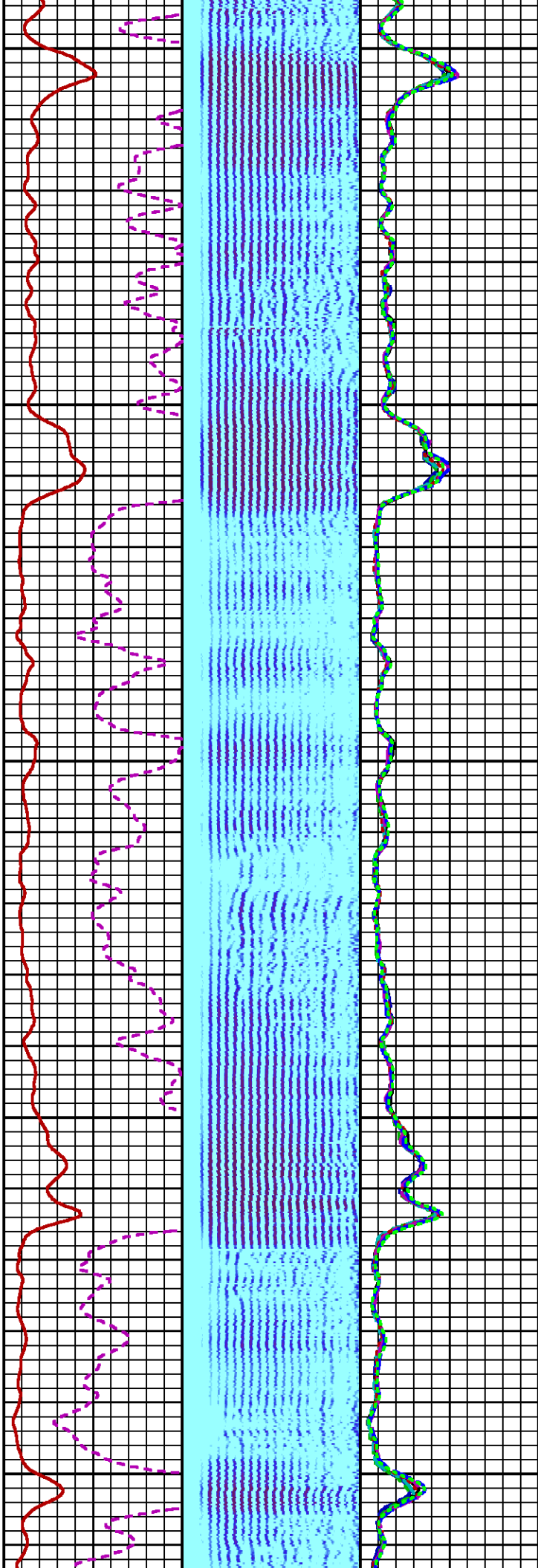
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5600

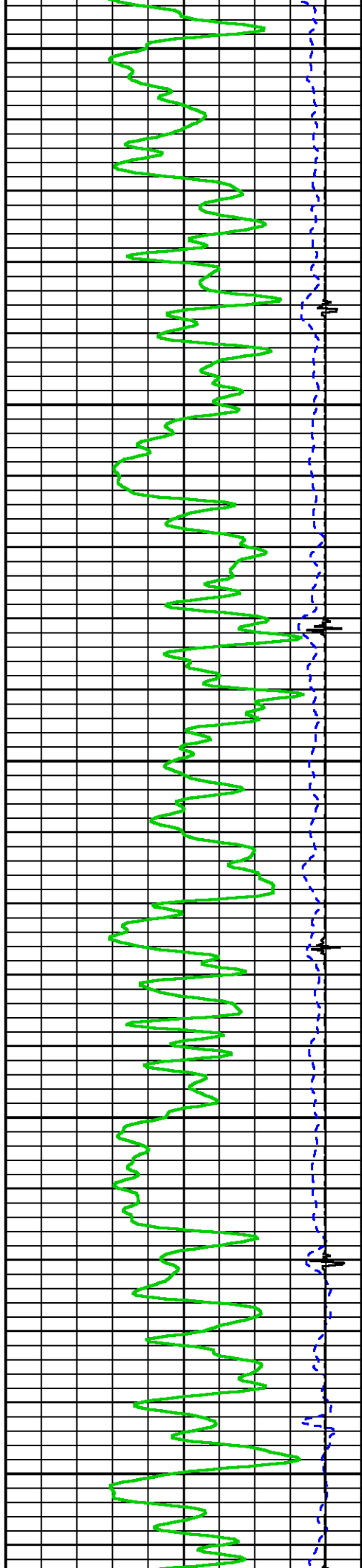
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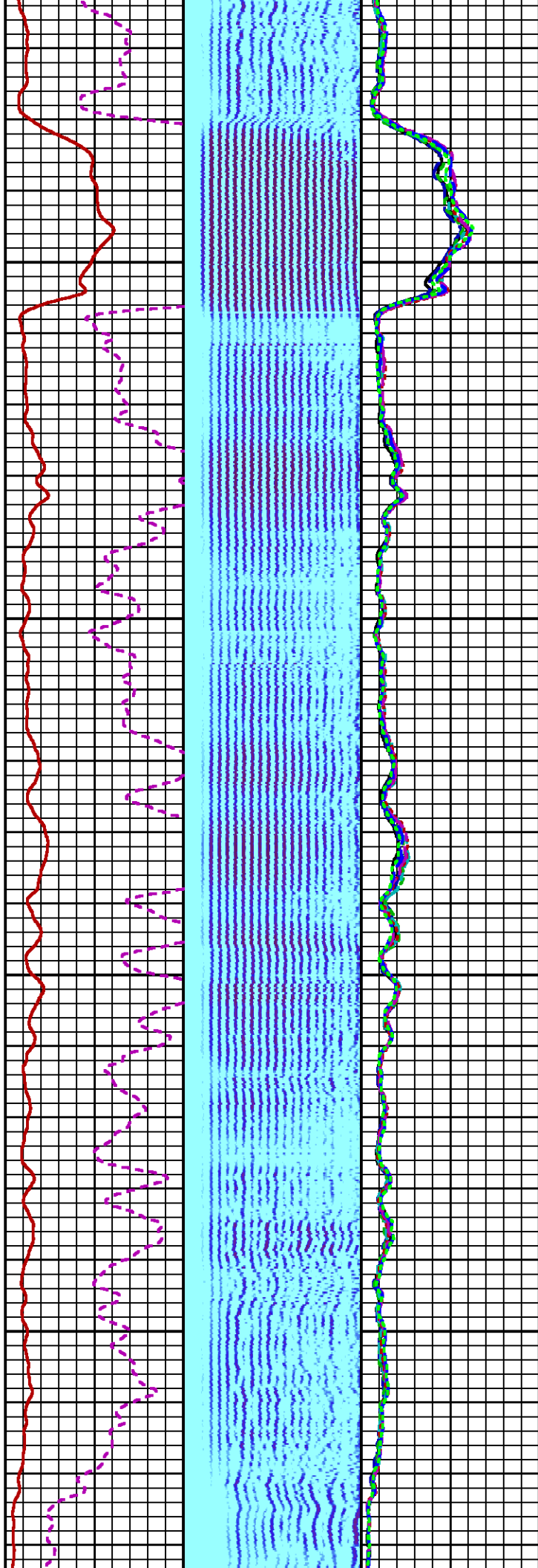
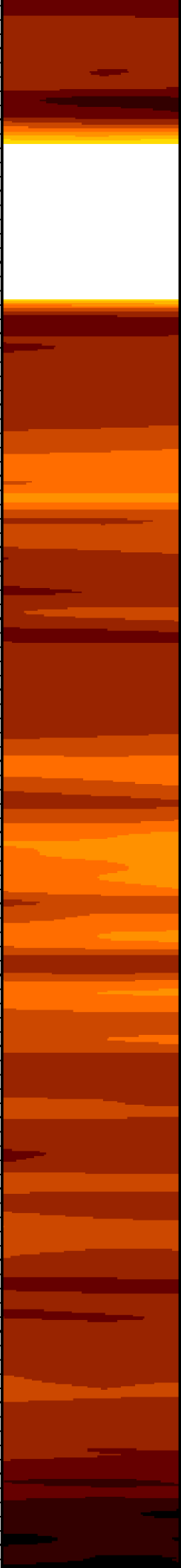




5800

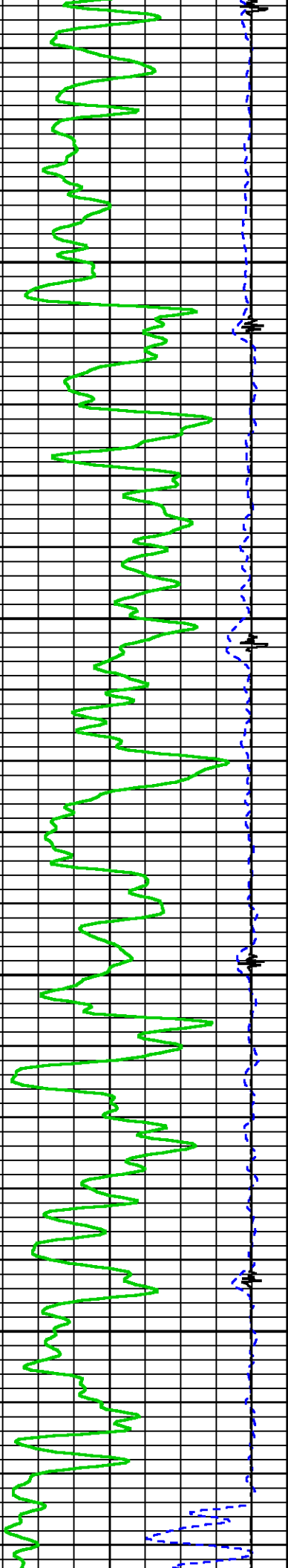
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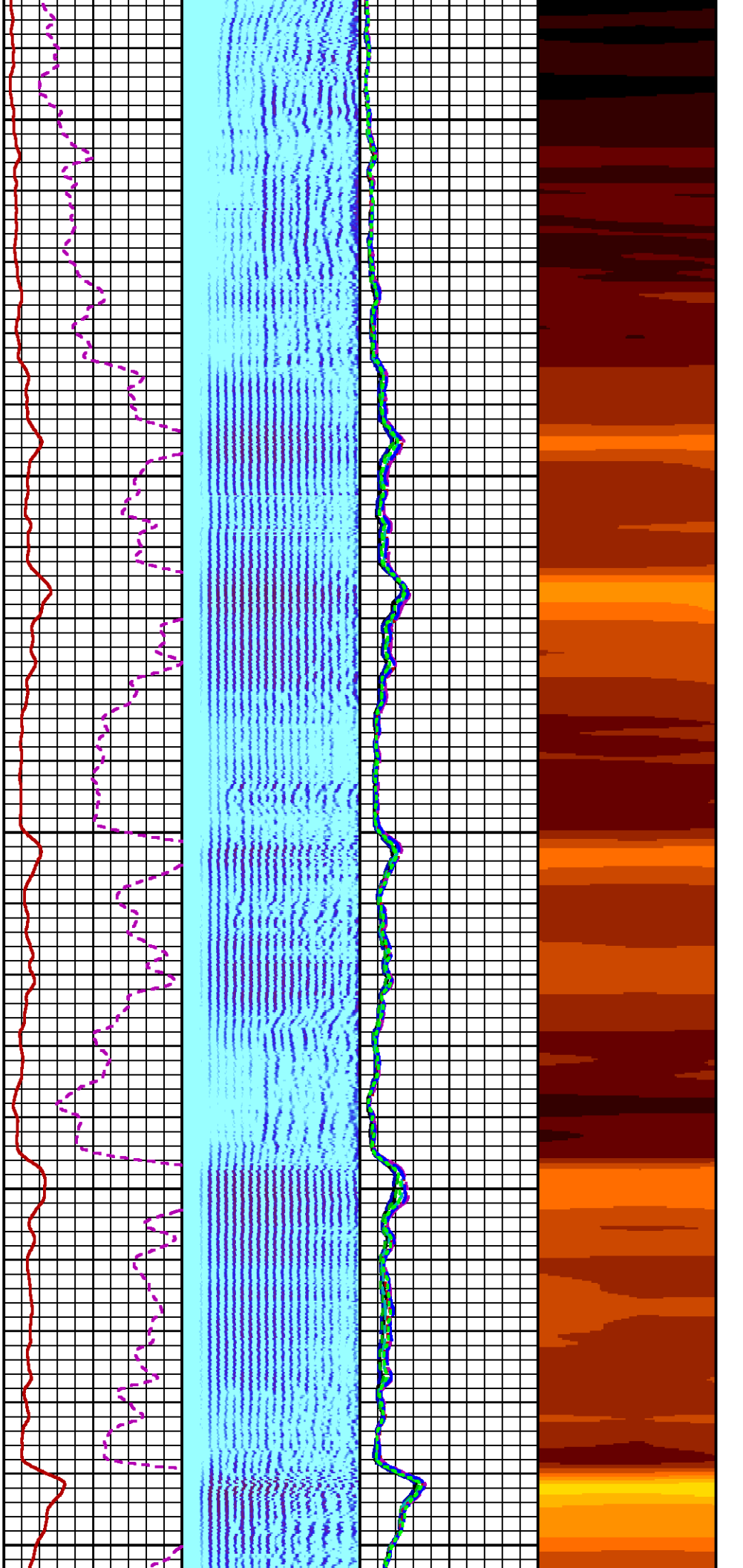




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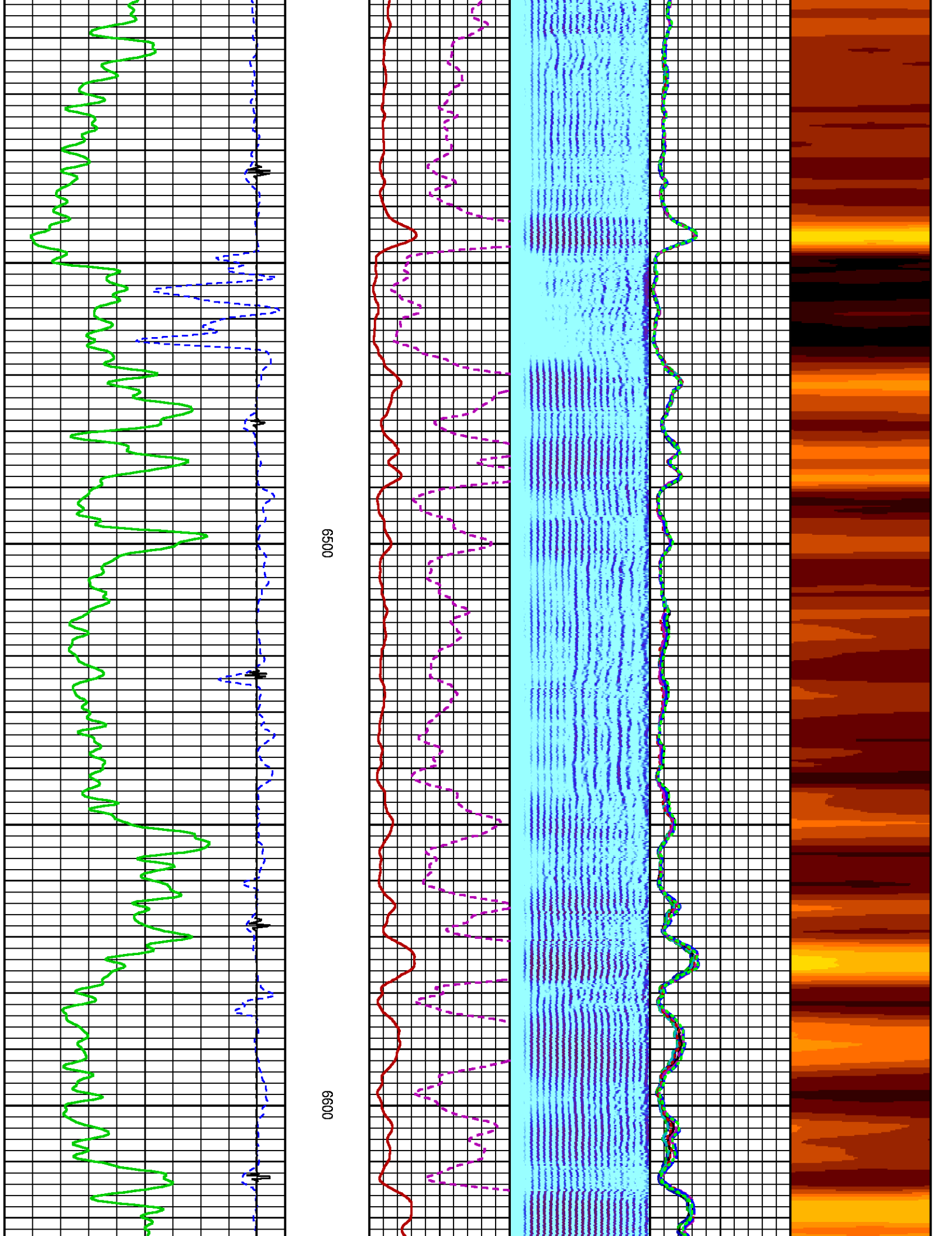


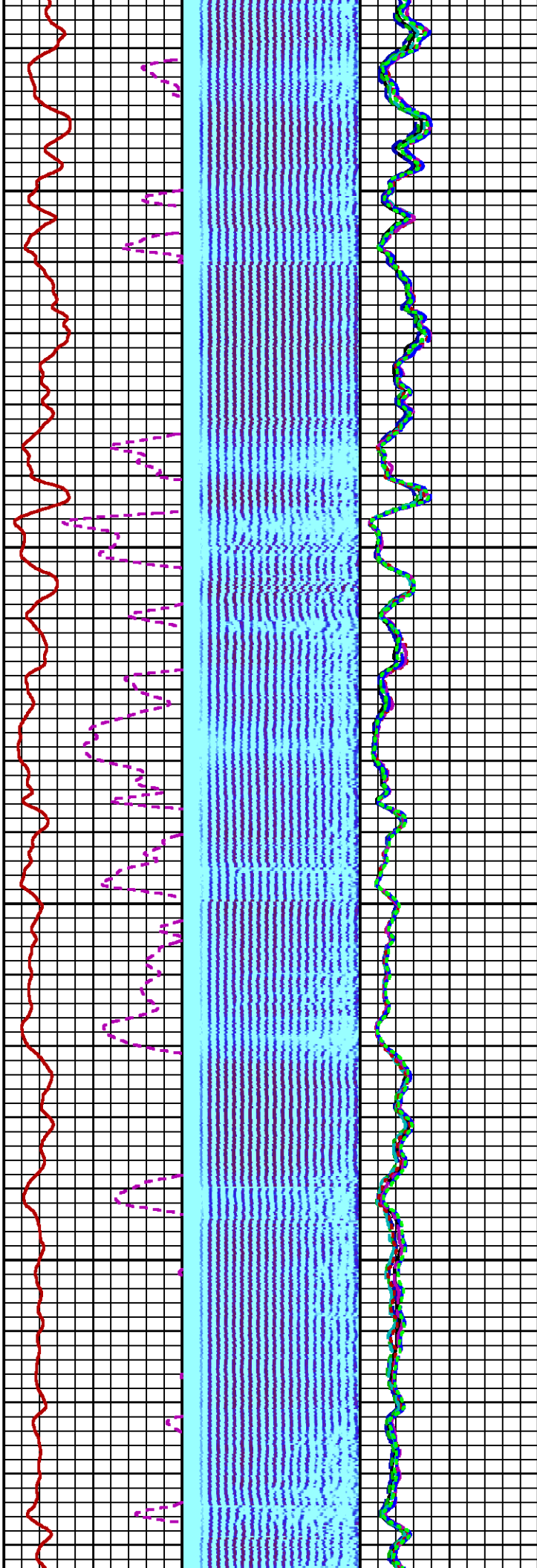


6200

6300

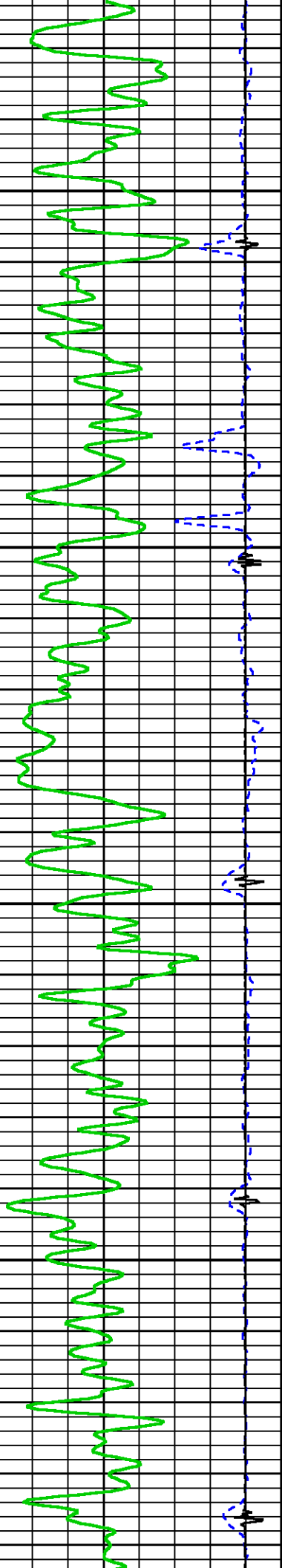
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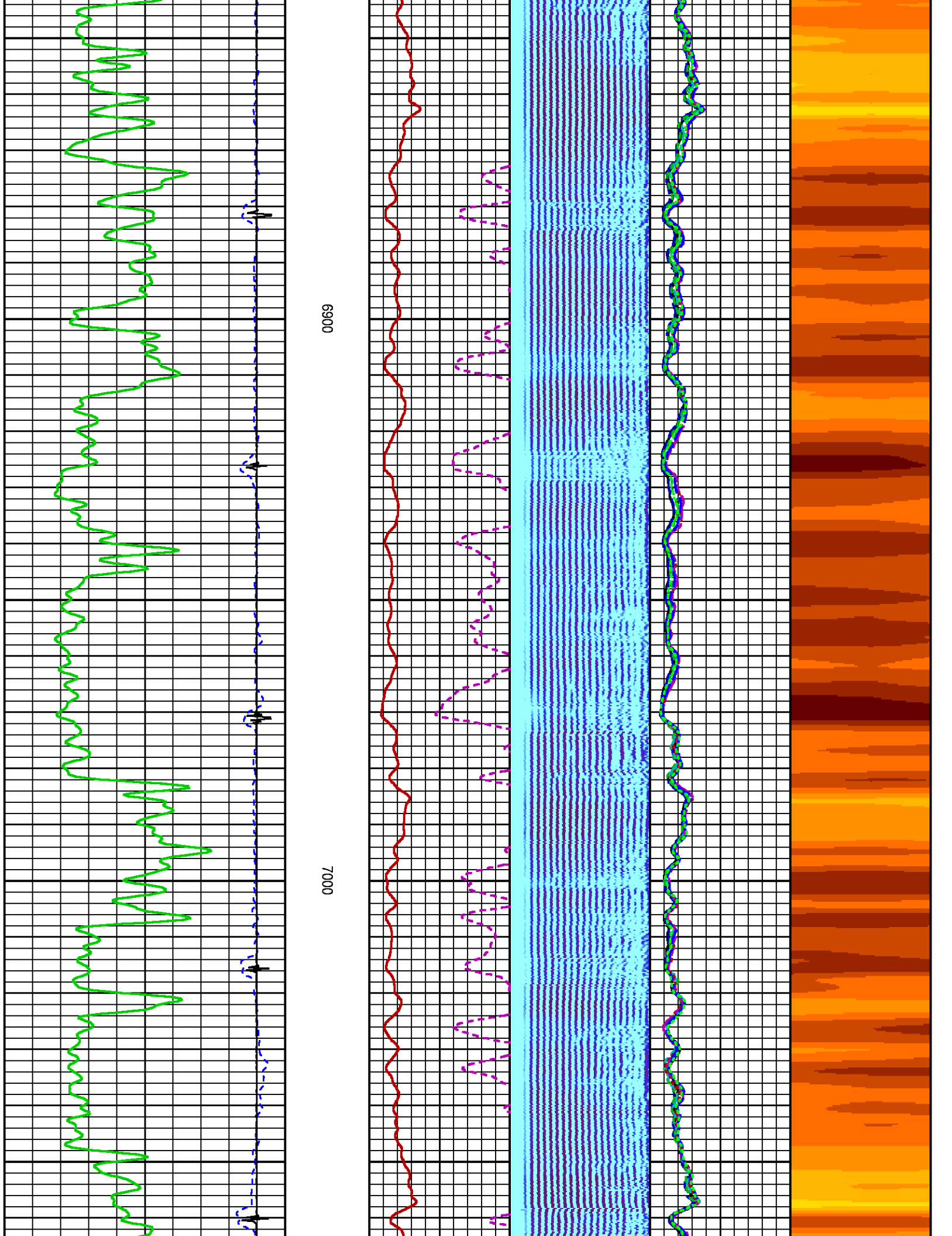


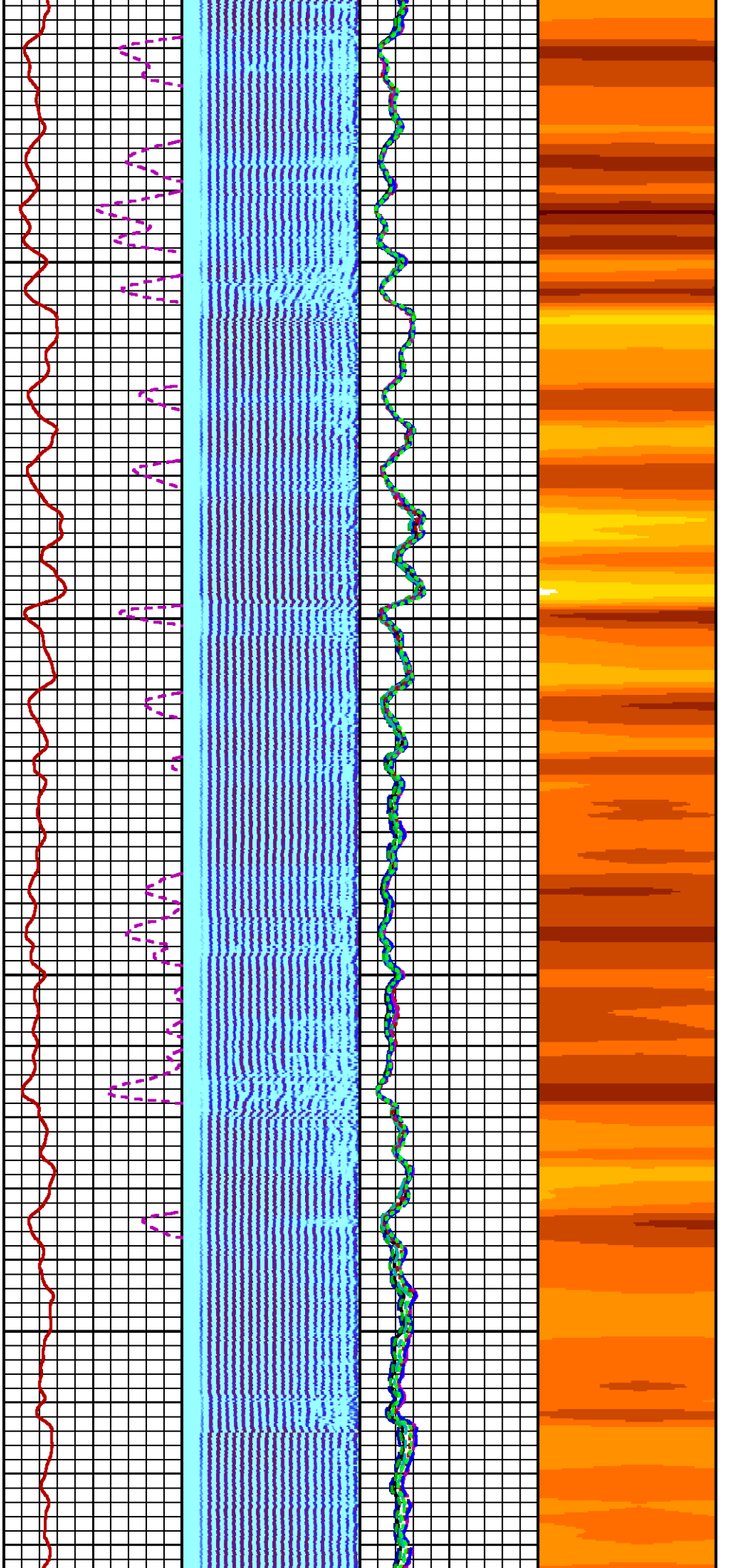


6700

6800

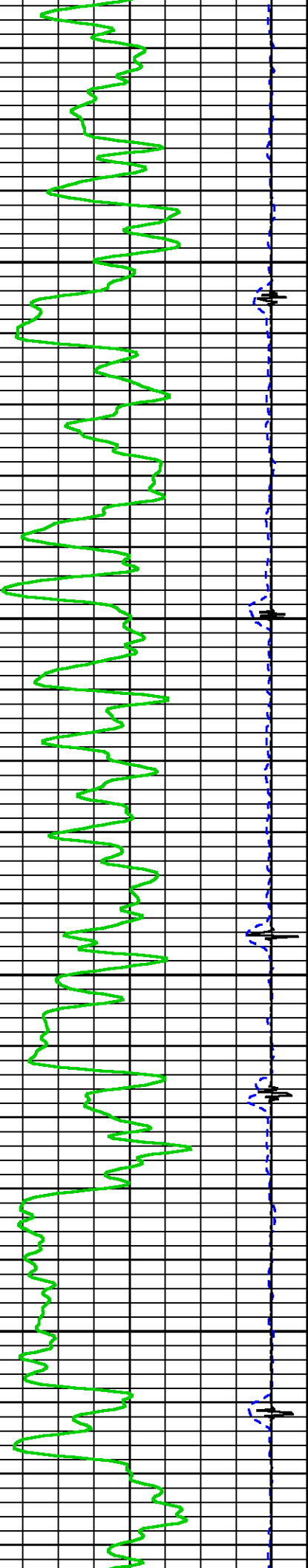


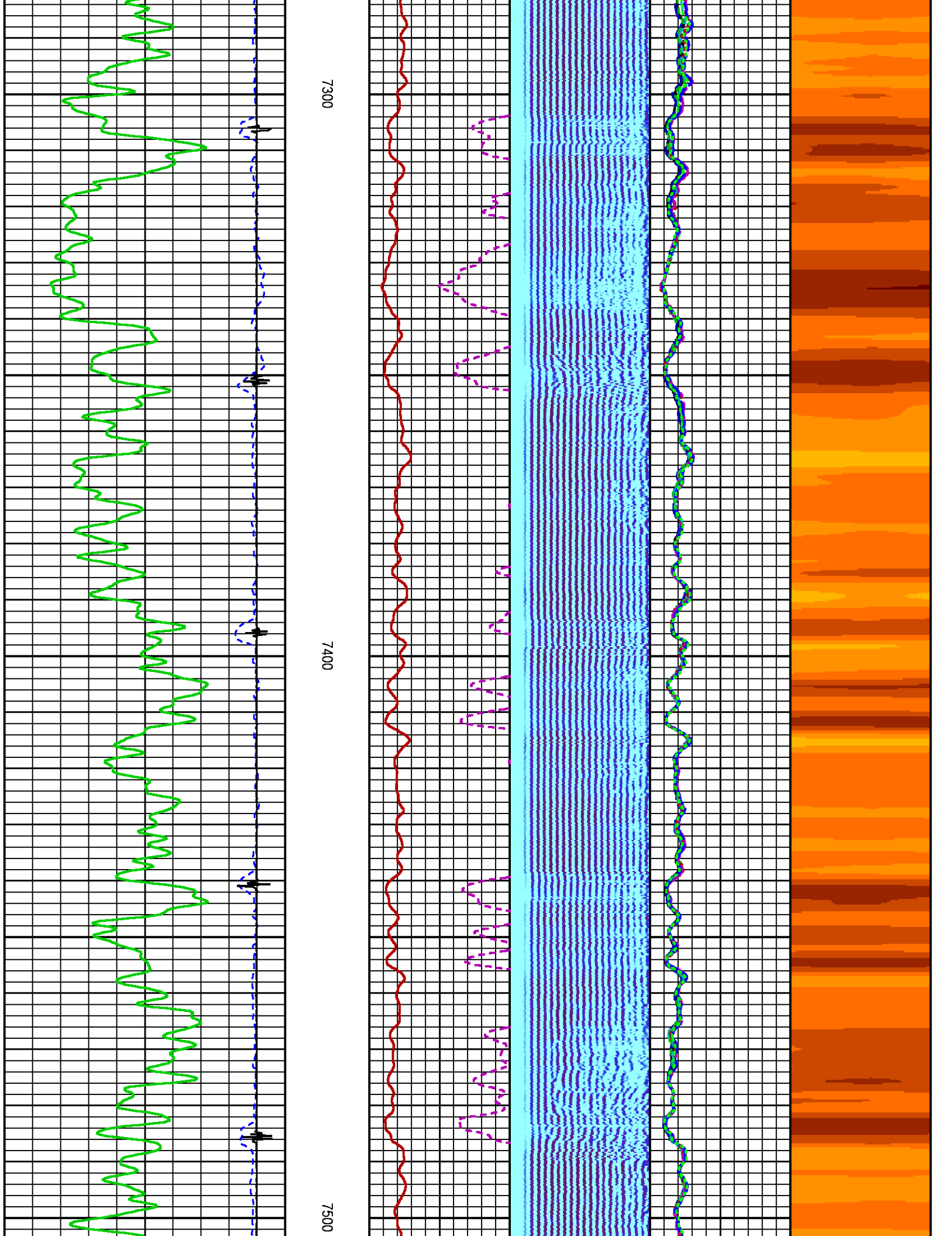


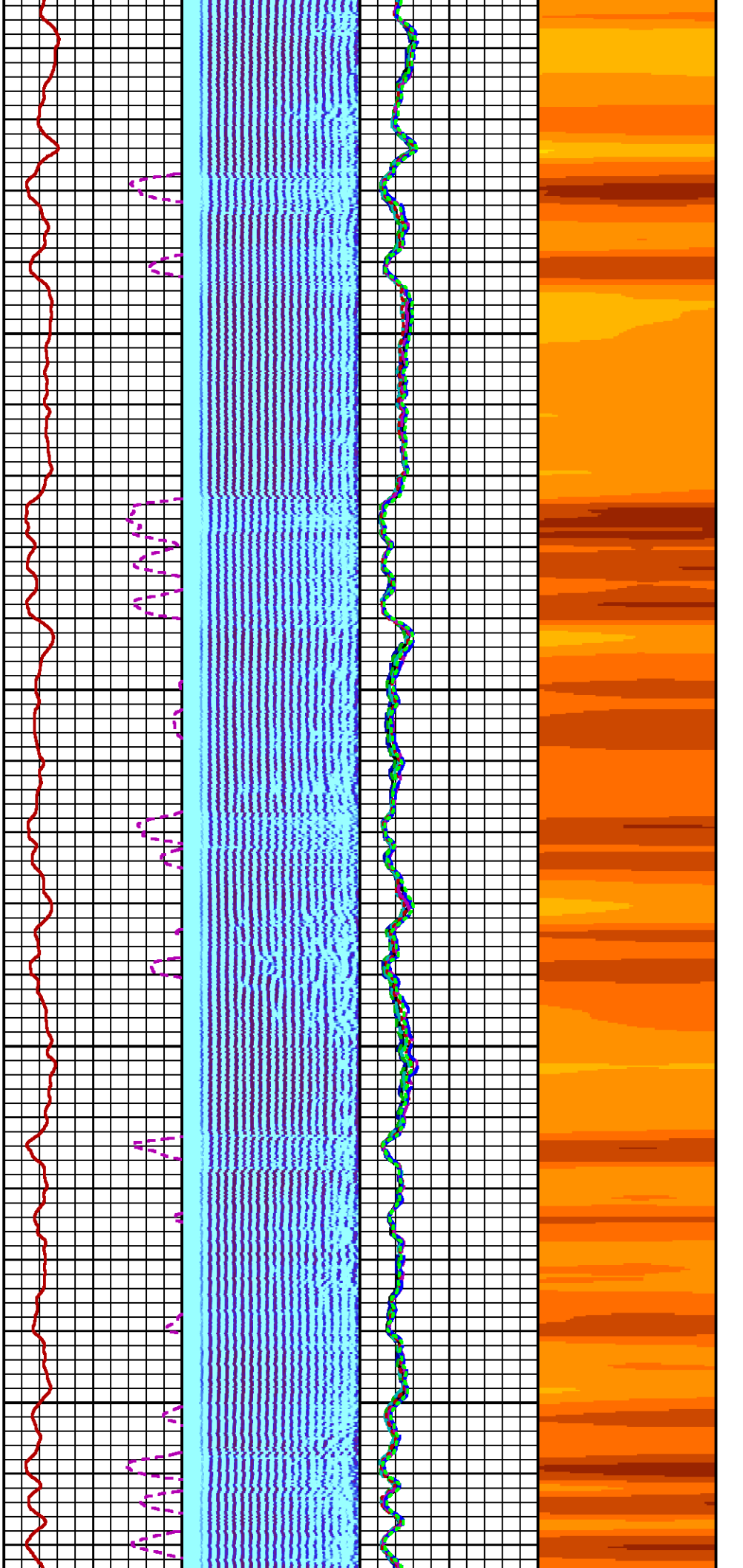


7100

7200

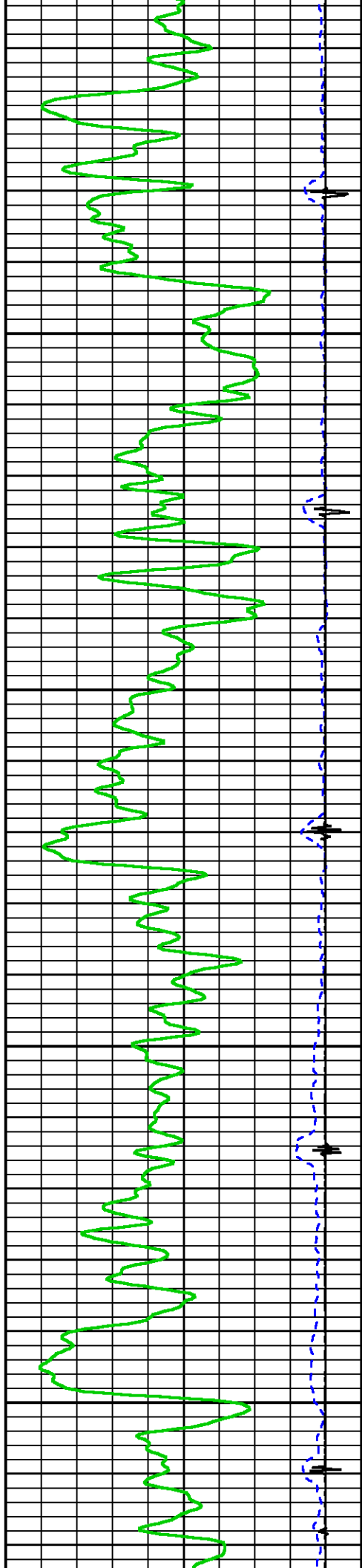


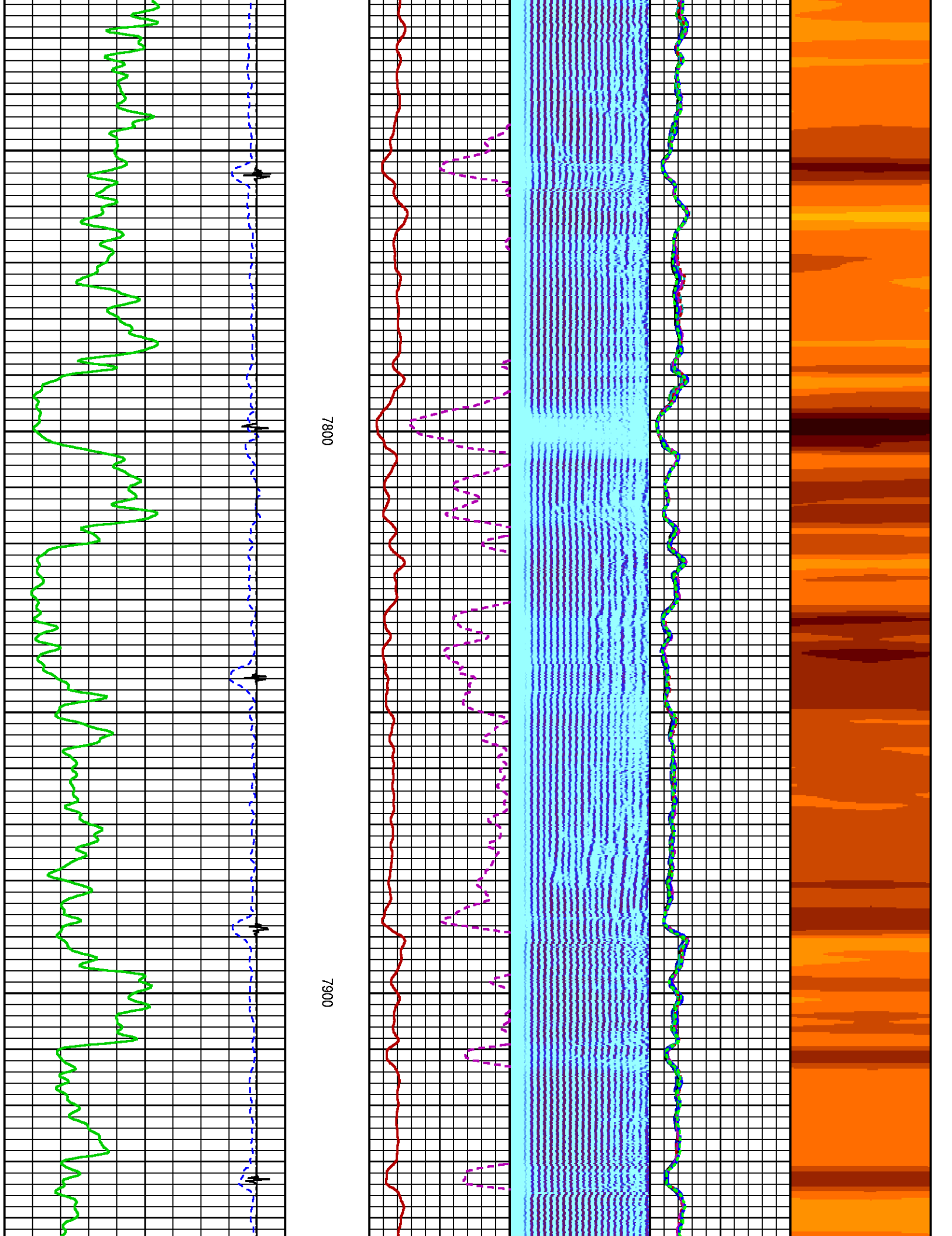


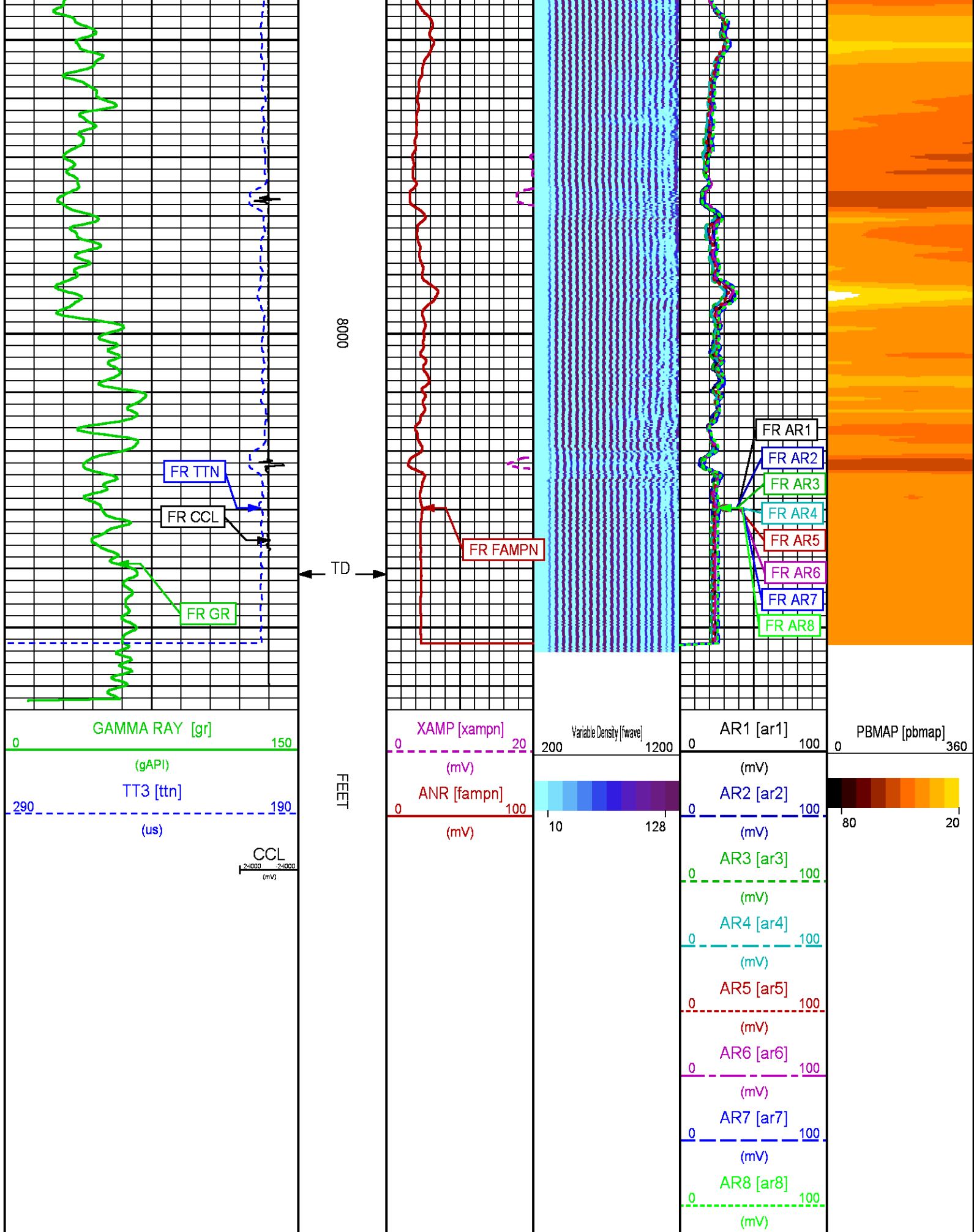


7600

7700







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: Mon Aug 28 11:45:28 2017

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/LARAMIE_BRUTON_19_01W/n012g01.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 7705.000 ft BOTTOM DEPTH: 8024.500 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*)	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*)	-64	us	TOP	7988.500
		-63	us	7988.500	7993.000
		-61	us	7993.000	BOTTOM
	TOOL DELAY (str2*)	-64	us	TOP	7988.500
		-63	us	7988.500	7993.000
		-61	us	7993.000	BOTTOM
	TOOL DELAY (str3*)	-64	us	TOP	7988.500
		-63	us	7988.500	7993.000
		-61	us	7993.000	BOTTOM
	TOOL DELAY (str4*)	-64	us	TOP	7988.500
		-63	us	7988.500	7993.000
		-61	us	7993.000	BOTTOM
	TOOL DELAY (str5*)	-64	us	TOP	7988.500
		-63	us	7988.500	7993.000
		-61	us	7993.000	BOTTOM
	TOOL DELAY (str6*)	-64	us	TOP	7988.500
		-63	us	7988.500	7993.000
		-61	us	7993.000	BOTTOM
	TOOL DELAY (str7*)	-64	us	TOP	7988.500
		-63	us	7988.500	7993.000
		-61	us	7993.000	BOTTOM
	TOOL DELAY (str8*)	-64	us	TOP	7988.500
		-63	us	7988.500	7993.000
		-61	us	7993.000	BOTTOM
	TOOL DELAY (strn*)	-64	us	TOP	7988.500
		-63	us	7988.500	7993.000
		-61	us	7993.000	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	2	mV	"	"
	FULL BOND AMP REC 8	2	mV	"	"

CURVE DESCRIPTION REPORT

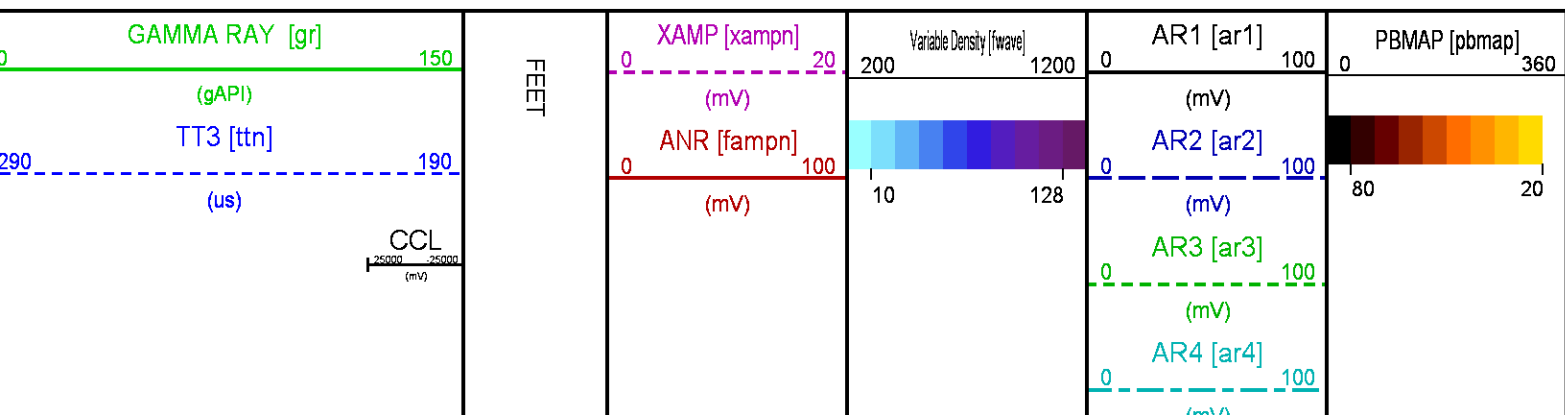
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Aug 28 09:38:32 2017	FIXED GATE AMPLITUDE T-R1
F1:AR2	Aug 28 09:38:32 2017	FIXED GATE AMPLITUDE T-R2
F1:AR3	Aug 28 09:38:32 2017	FIXED GATE AMPLITUDE T-R3
F1:AR4	Aug 28 09:38:32 2017	FIXED GATE AMPLITUDE T-R4
F1:AR5	Aug 28 09:38:32 2017	FIXED GATE AMPLITUDE T-R5
F1:AR6	Aug 28 09:38:32 2017	FIXED GATE AMPLITUDE T-R6
F1:AR7	Aug 28 09:38:32 2017	FIXED GATE AMPLITUDE T-R7
F1:AR8	Aug 28 09:38:32 2017	FIXED GATE AMPLITUDE T-R8
F1:CCL	Aug 28 09:38:32 2017	CASING COLLAR LOCATOR
F1:FAMPN	Aug 28 09:38:32 2017	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Aug 28 09:38:32 2017	FAR WAVE FORM
F1:GR	Aug 28 09:38:32 2017	GAMMA RAY
F1:PBMAP	Aug 28 09:38:32 2017	PERCENT BOND CEMENT MAP
F1:TTN	Aug 28 09:38:32 2017	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Aug 28 09:38:32 2017	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

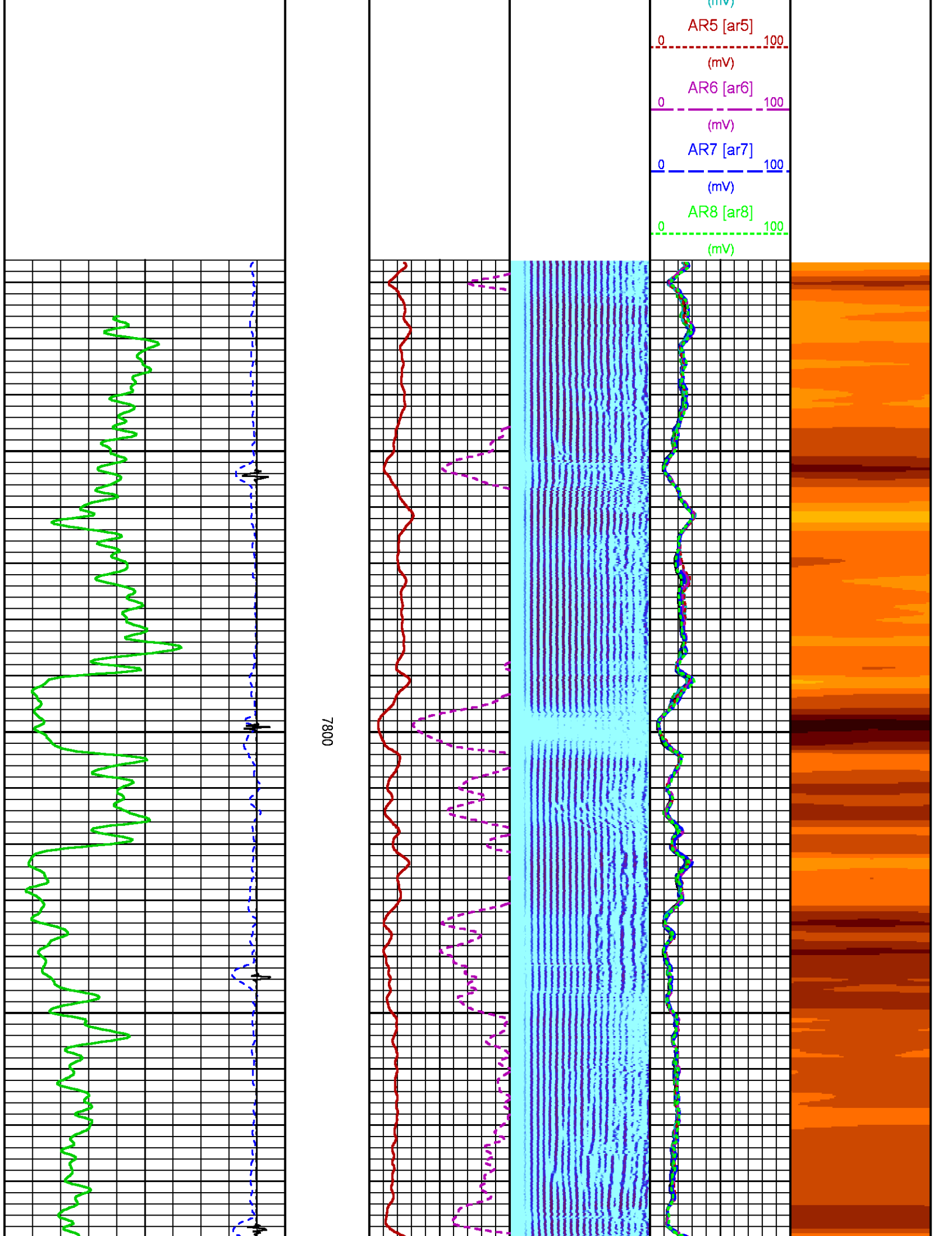
CURVE MEASURE POINT OFFSET

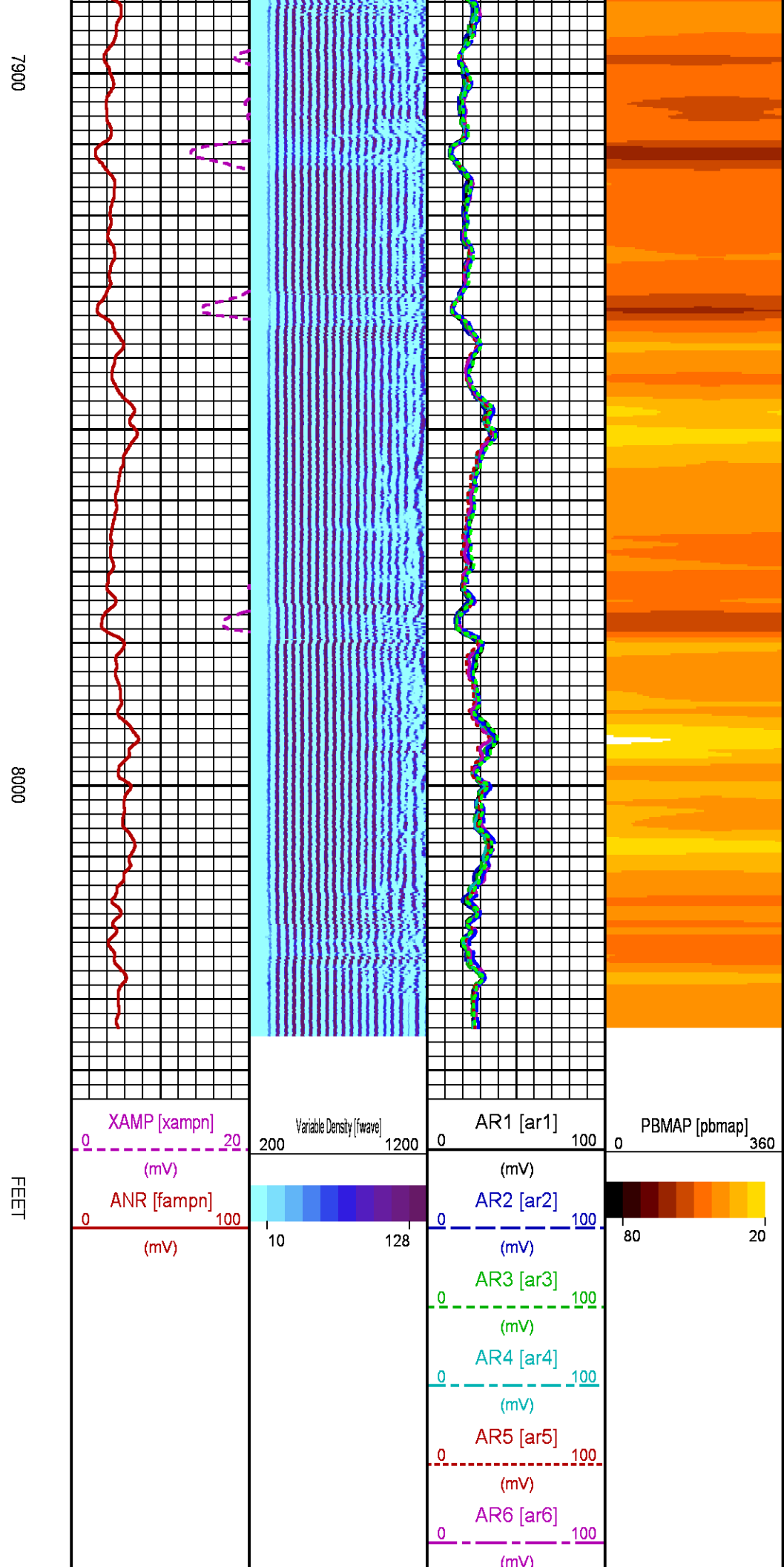
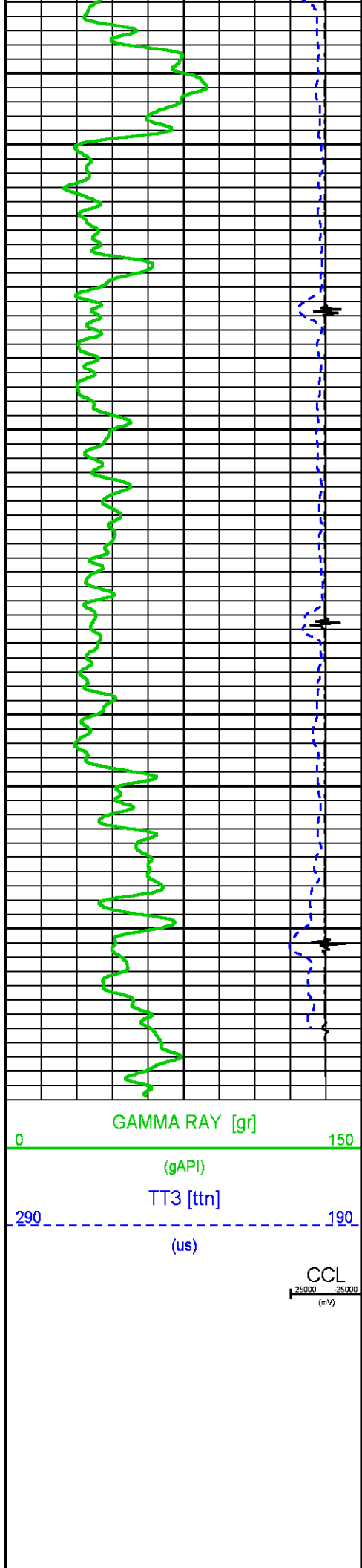
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	11.25	AR5	11.25	CCL	5.75	XAMPN	11.25
AR2	11.25	AR6	11.25	FAMPN	11.25		
AR3	11.25	AR7	11.25	GR	1.75		
AR4	11.25	AR8	11.25	TTN	11.25		

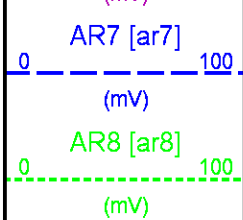
Presentation : cpu100:/dat1a/LARAMIE_BRUTON_19_01W/BRUTON_19_01W_RAL_REPEAT.fvpdf [5"/100' Scale]
Plot Interval : 7716.25 - 8045.25 Feet

Data File 1 : F1 : cpu100:/dat1a/LARAMIE_BRUTON_19_01W/BRUTON_19_01W_RAL_RPT.txtf
Created On : Aug 28 09:38:32 2017
Company : LARAMIE ENERGY
Well : BRUTON 19-01W
Field : VEGA
File Interval : 7715.25 - 8046.5 Feet
OCT : n012g









CALIBRATION / VERIFICATION SUMMARY

Source File: /data/LARAMIE_BRUTON_19_01/Wn012g.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 (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 #: 1355XA 12670180

DATE/TIME PERFORMED: Fri Dec 23 11:54:47 2016

UNIT #: 3880TA HL6670

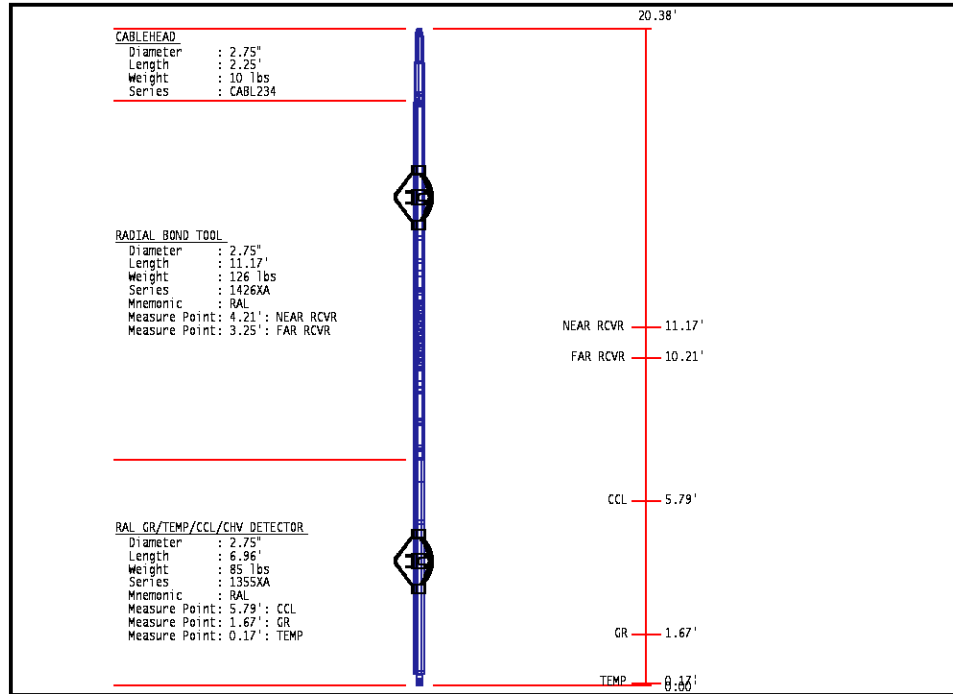
VERI JIG #: 4702NK DA_228

	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


90.00 110.00

INSTRUMENT CONFIGURATION

Source File: /data/LARAMIE_BRUTON_19_01W/RAL.tdg



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

	COMPANY <u>LARAMIE ENERGY</u> WELL <u>BRUTON 19-01W</u> FIELD <u>VEGA</u> COUNTY <u>MESA</u> STATE <u>COLORADO</u>	FILE NO: _____ API NO: <u>05077104290000</u>	
	LOCATION: SHL: LAT:39.262997N;LONG:107.815047W BHL: LAT:39.269311N;LONG:107.816113W SEC <u>19</u> TWP <u>9S</u> RGE <u>93W</u>	ELEVATIONS: KB <u>7286 FT</u> DF <u>7286 FT</u> GL <u>7262 FT</u>	
	DATE <u>28-AUG-2017</u>		