



FILE NO: CH101499	COMPANY WELL FIELD COUNTY	EXTRACTION OIL & GAS JANSSEN 2 WATTENBERG WELD STATE
API NO: 05123423390000		COLORADO

Ver. 4.01 SEC 8 T6N R65W PATTERSON 346	LOCATION: 2147' FNL & 2397 FWL SEWNW SEC 8 TWP 6N RGE 65W	OTHER SERVICES NONE
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PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	G.L. K.B. K.B.	ELEVATION 24.5 FT ABOVE P.D.	ELEVATIONS: KB 4803.5 FT DF GL 4779 FT
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DATE		05-JAN-2016	
RUN	TRIP	1	1
SERVICE ORDER	US101499J		
DEPTH DRILLER	11945 FT		
DEPTH LOGGER	NOT REACHED		
BOTTOM LOGGED INTERVAL	7679 FT		
TOP LOGGED INTERVAL	0 FT		
TIME STARTED	19:00		
TIME FINISHED	21:00		
OPERATOR RIG TIME	2 HOURS		
TYPE OF FLUID IN HOLE	WATER		
FLUID DENSITY	NA		
FLUID SALINITY	NA		
FLUID LEVEL	46 FT		
LOGGED CEMENT TOP	SEE LOG		
WELLHEAD PRESSURE	0 PSI		
MAXIMUM HOLE DEVIATION	NA		
NOMINAL LOGGING SPEED	100 F/MIN		
MAX. RECORDED TEMP.	NA		
REFERENCE LOG	NA		
REFERENCE LOG DATE	NA		
EQUIP. NO.	LOCATION	HL-6670	GRAND JCT.
RECORDED BY	SPENCER		
WITNESSED BY	LARRY SIEGEL		

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.

BOREHOLE RECORD		
BIT SIZE	FROM	TO
7.875 IN	0 FT	11945 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
5.5 IN	20 LB/F		0 FT	11945 FT

REMARKS

RUN 1 TRIP 1: LOGGED WITH ZERO PSI AT WELLHEAD.

THIS LOG HAS NOT BEEN CORRELATED TO ANY OPEN HOLE LOG. THE TOOL WAS ZEROED AT KB HEIGHT.

BOTTOM HOLE TEMPERATURE NOT RECORDED, SENSOR FAILED.

THANK YOU FOR CHOOSING BAKER HUGHES WIRELINE SERVICES
CREW: COATE / SPENCE

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	DA	11945	11945	GRAND JCT.

1	1	RAL	1426XA	10124106	CENTRALIZED
1	1	GR / CCL	1355XA	11871510	CENTRALIZED

MAIN LOG 5"/100FT SCALE

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

Updates: 1 Patches: 6

Plotted: Wed Jan 6 10:35:07 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH101495/n012gR04.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 14.500 ft BOTTOM DEPTH: 7683.750 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*)	200	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	200	us	"	"
	AMP WINDOW START (fgp3*)	200	us	"	"
	AMP WINDOW START (fgp4*)	200	us	"	"
	AMP WINDOW START (fgp5*)	200	us	"	"
	AMP WINDOW START (fgp6*)	200	us	"	"
	AMP WINDOW START (fgp7*)	200	us	"	"
	AMP WINDOW START (fgp8*)	200	us	"	"
	AMP WINDOW START (fgpn*)	200	us	"	"
TRAVEL TIME WINDOW (NEAR)	AMP WINDOW LENGTH	25	us	"	"
	TT WINDOW START (ttn*)	189	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	212.952	us	"	"
RAL TOOL DELAY	TOOL DELAY (str1*)	-70	us	"	"
	TOOL DELAY (str2*)	-70	us	"	"
	TOOL DELAY (str3*)	-70	us	"	"
	TOOL DELAY (str4*)	-70	us	"	"
	TOOL DELAY (str5*)	-70	us	"	"
	TOOL DELAY (str6*)	-70	us	"	"
	TOOL DELAY (str7*)	-70	us	"	"
	TOOL DELAY (str8*)	-70	us	"	"
	TOOL DELAY (strn*)	-70	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	159	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	72	mV	TOP	BOTTOM
	FREE AMP REC 2	72	mV	"	"
	FREE AMP REC 3	72	mV	"	"
	FREE AMP REC 4	72	mV	"	"
	FREE AMP REC 5	72	mV	"	"

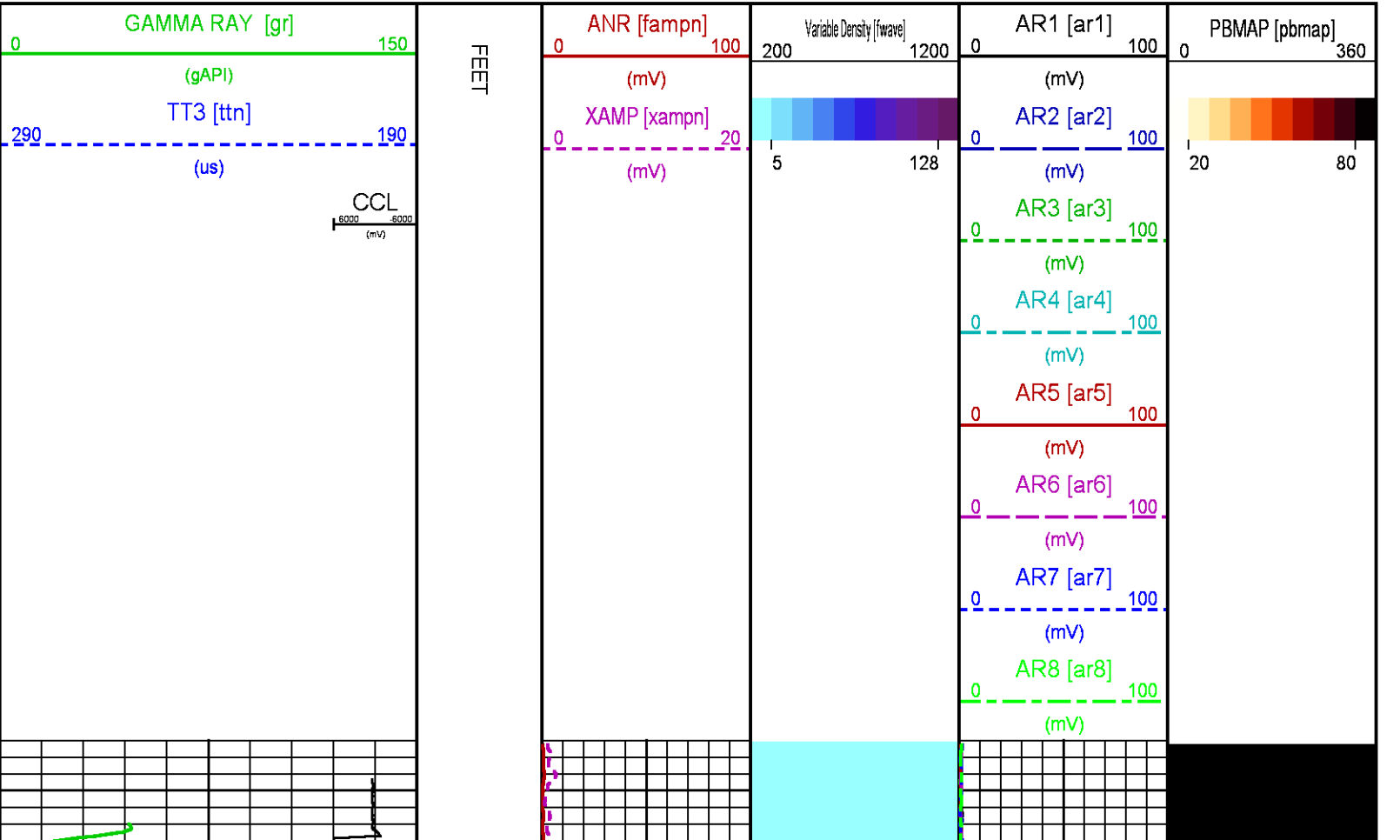
	FREE AMP REC 6	72	mV	"	"
	FREE AMP REC 7	72	mV	"	"
	FREE AMP REC 8	72	mV	"	"
RAL FULL BOND AMPLITUDE	FULL BOND AMP REC 1	2	mV	"	"
	FULL BOND AMP REC 2	2	mV	"	"
	FULL BOND AMP REC 3	2	mV	"	"
	FULL BOND AMP REC 4	2	mV	"	"
	FULL BOND AMP REC 5	2	mV	"	"
	FULL BOND AMP REC 6	2	mV	"	"
	FULL BOND AMP REC 7	2	mV	"	"
	FULL BOND AMP REC 8	2	mV	"	"

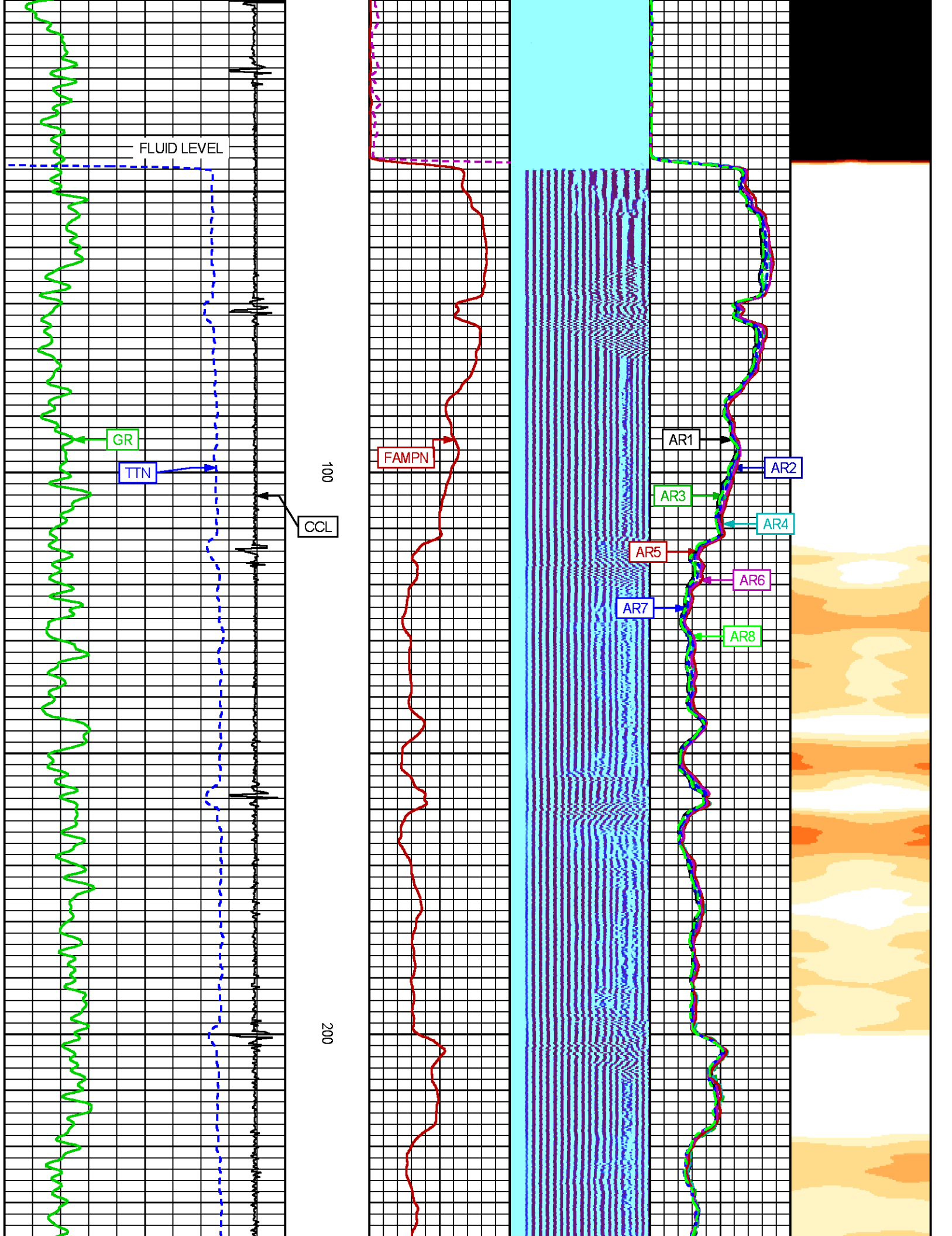
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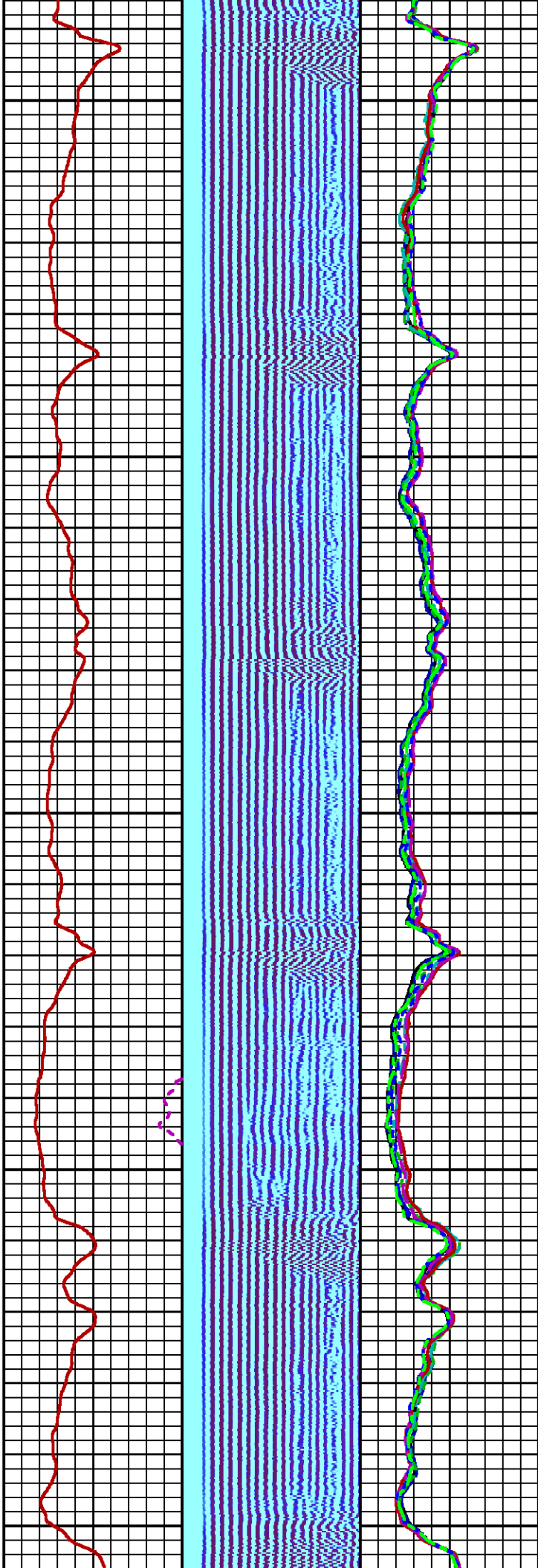
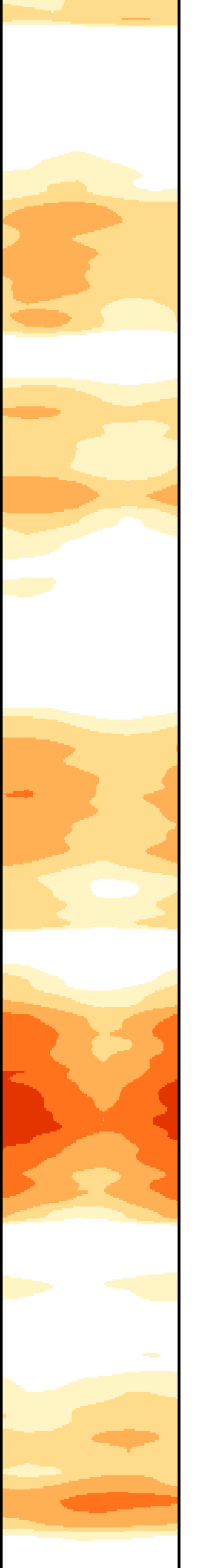
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Jan 6 10:16:29 2016	FIXED GATE AMPLITUDE T-R1
F1:AR2	Jan 6 10:16:29 2016	FIXED GATE AMPLITUDE T-R2
F1:AR3	Jan 6 10:16:29 2016	FIXED GATE AMPLITUDE T-R3
F1:AR4	Jan 6 10:16:29 2016	FIXED GATE AMPLITUDE T-R4
F1:AR5	Jan 6 10:16:29 2016	FIXED GATE AMPLITUDE T-R5
F1:AR6	Jan 6 10:16:29 2016	FIXED GATE AMPLITUDE T-R6
F1:AR7	Jan 6 10:16:29 2016	FIXED GATE AMPLITUDE T-R7
F1:AR8	Jan 6 10:16:29 2016	FIXED GATE AMPLITUDE T-R8
F1:CCL	Jan 6 10:16:29 2016	CASING COLLAR LOCATOR
F1:FAMPN	Jan 6 10:16:29 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jan 6 10:16:29 2016	FAR WAVE FORM
F1:GR	Jan 6 10:16:29 2016	GAMMA RAY
F1:PBMAP	Jan 6 10:16:29 2016	PERCENT BOND CEMENT MAP
F1:TTN	Jan 6 10:16:29 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jan 6 10:16:29 2016	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		

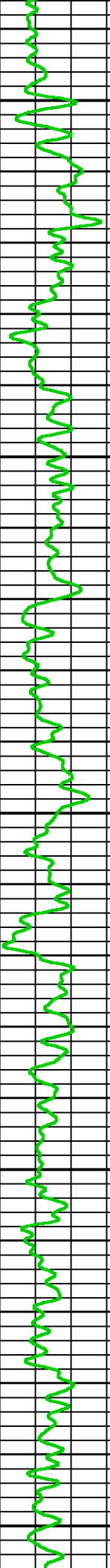
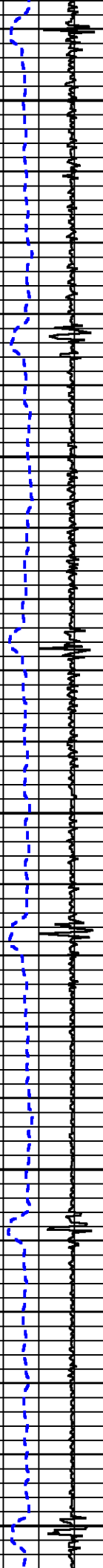


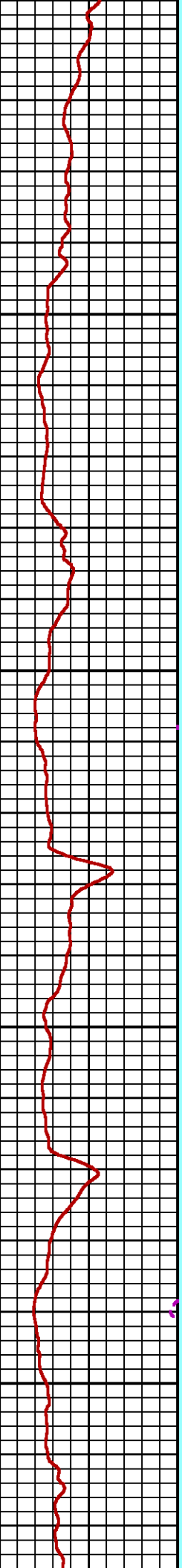
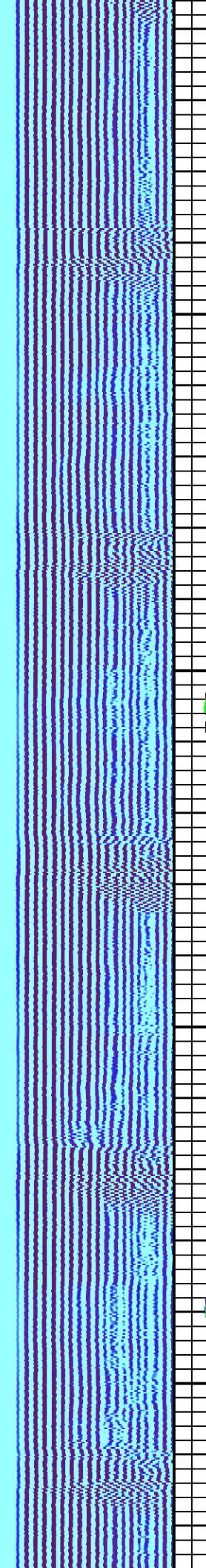
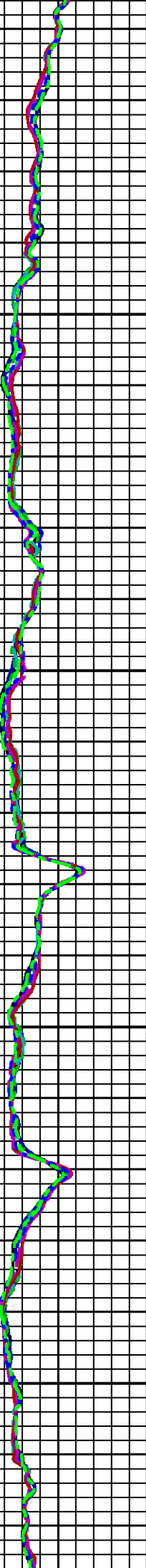
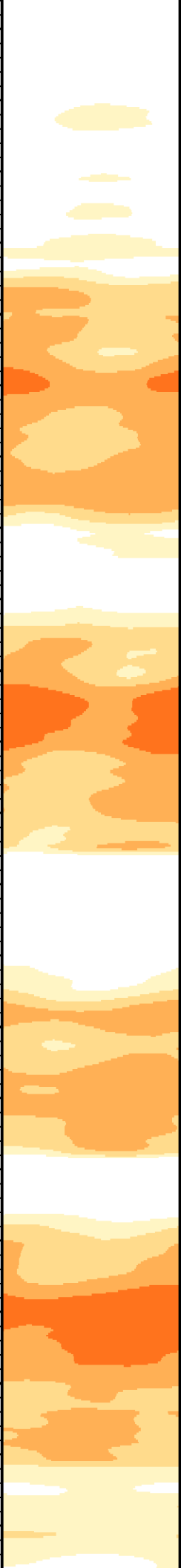




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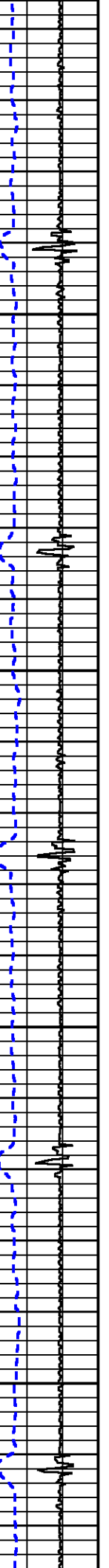
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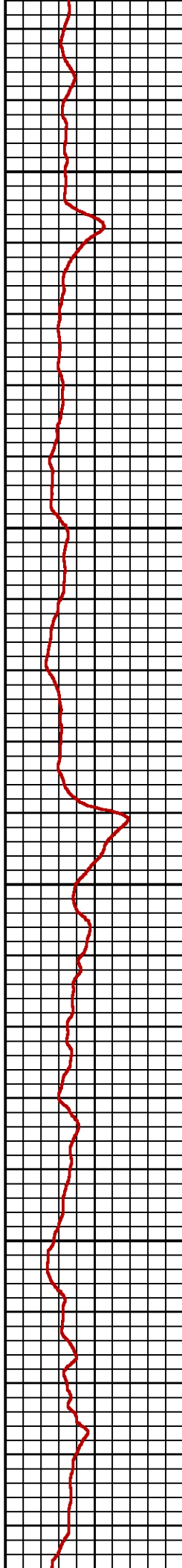
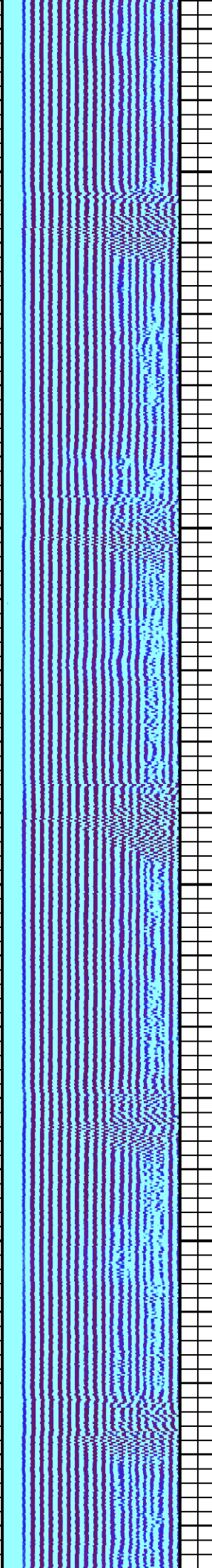
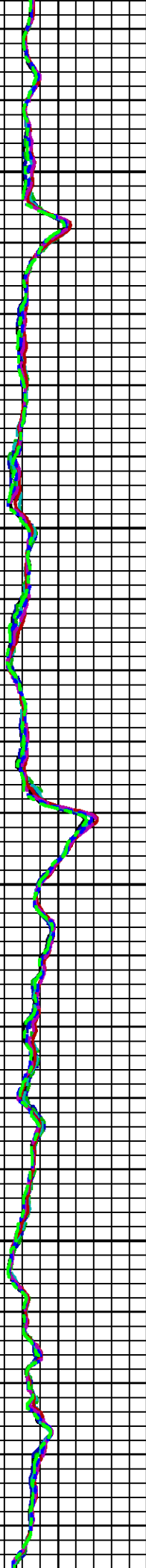
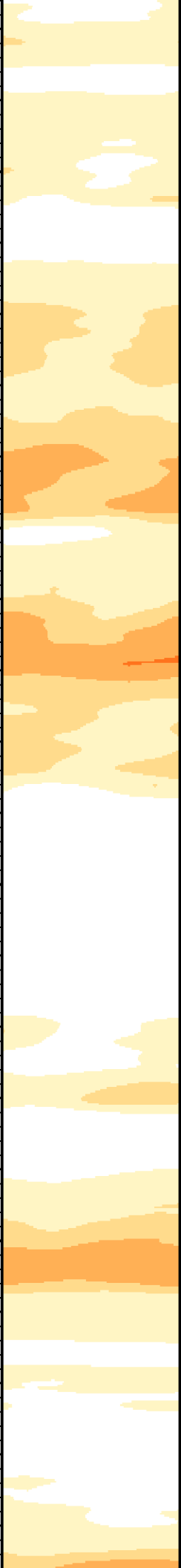




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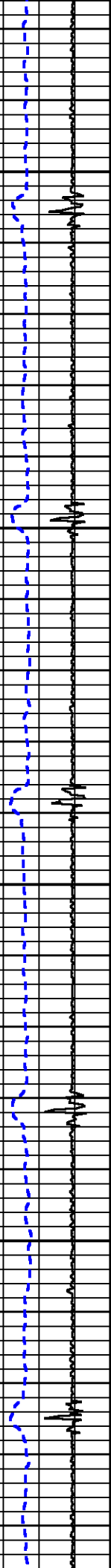
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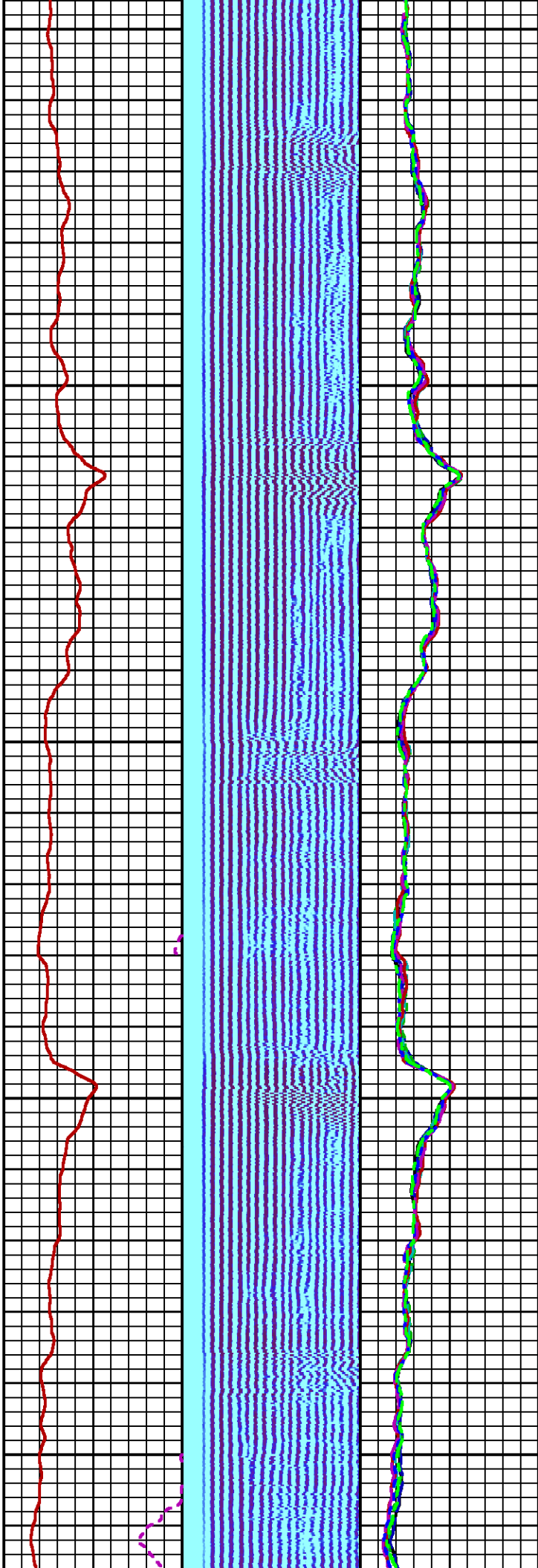




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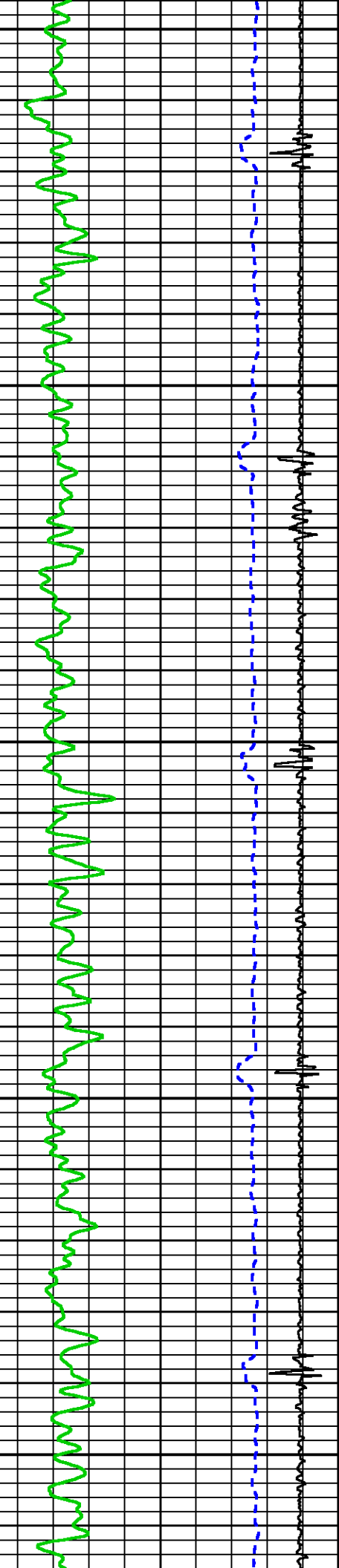


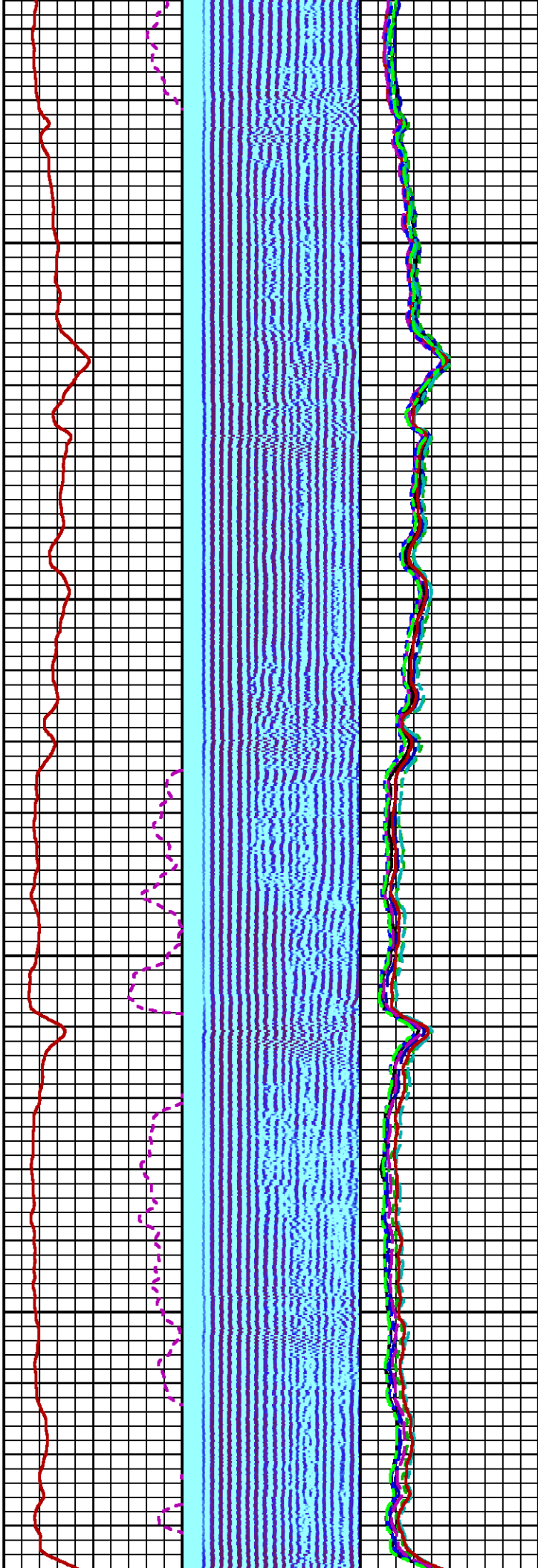
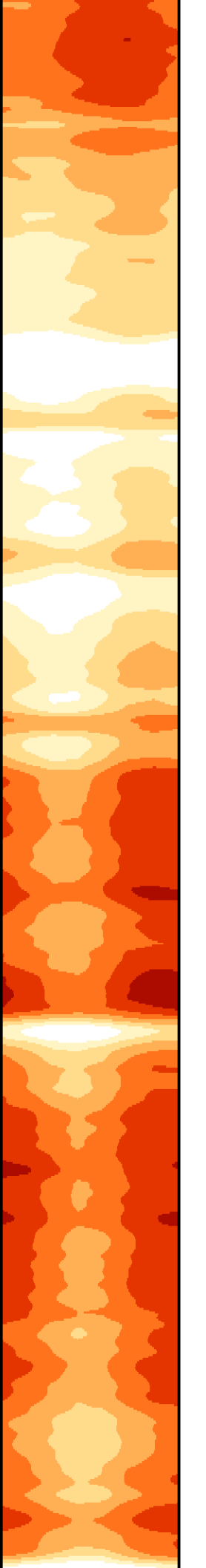


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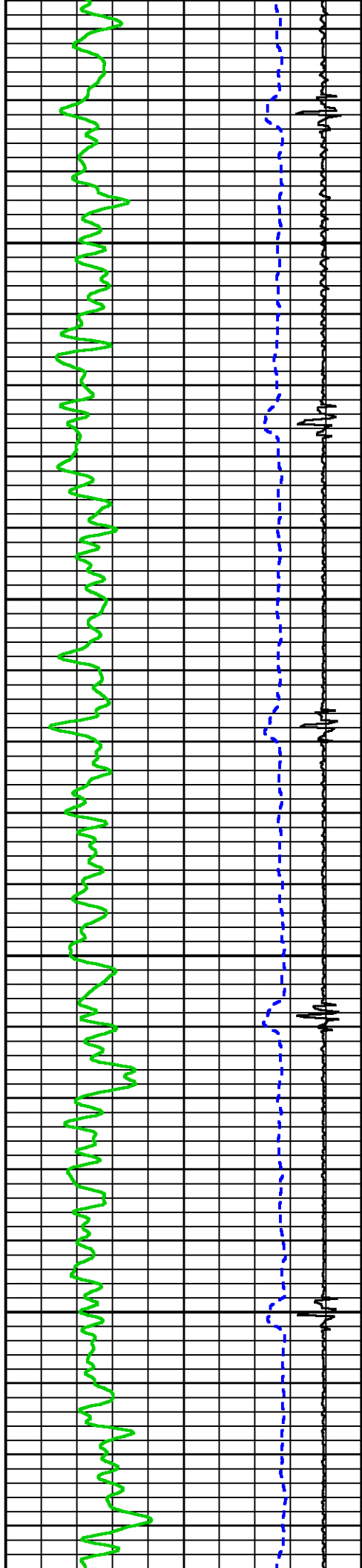
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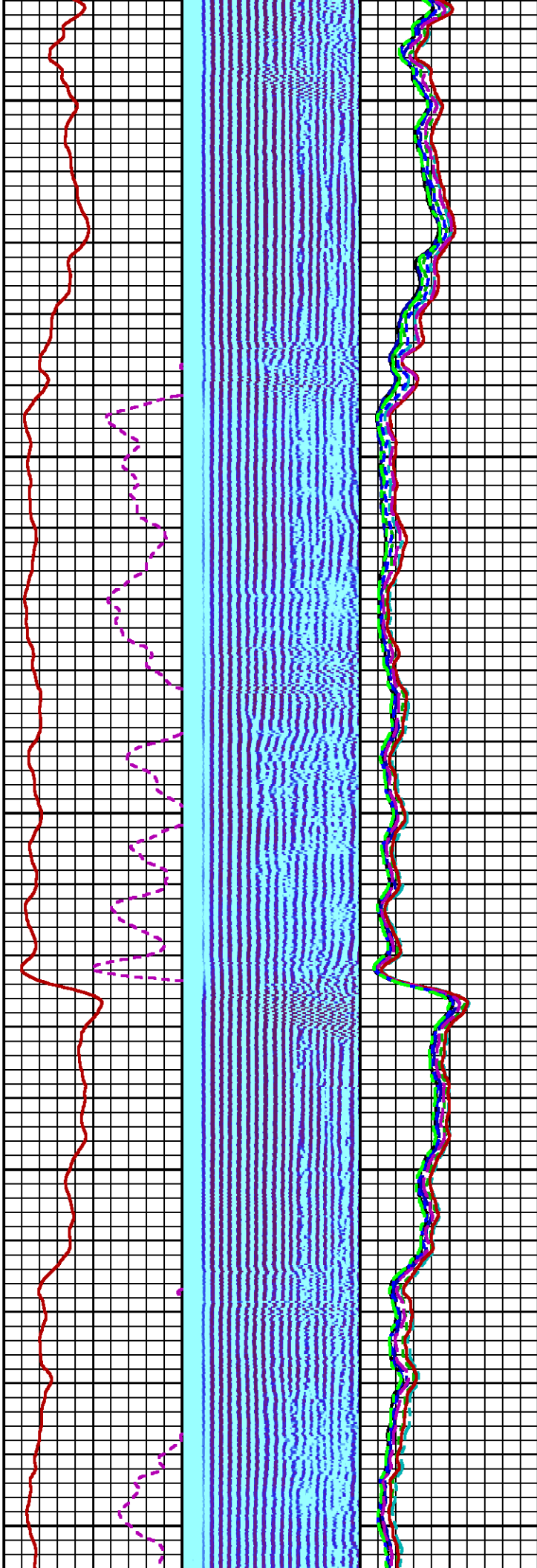
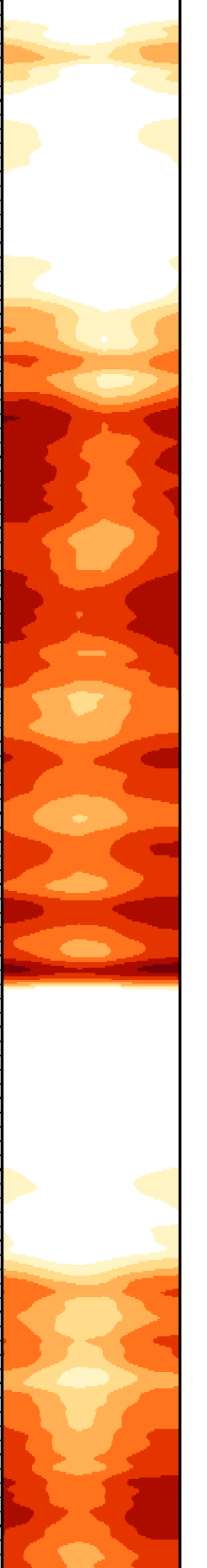




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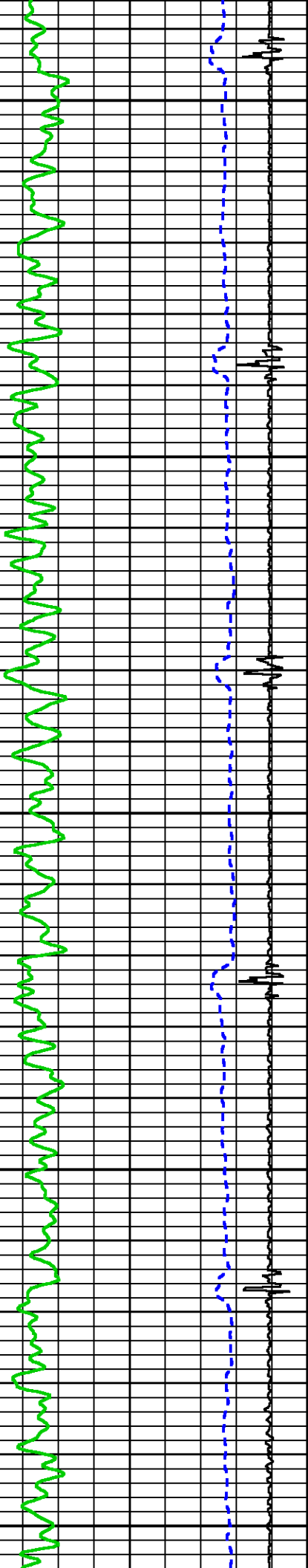
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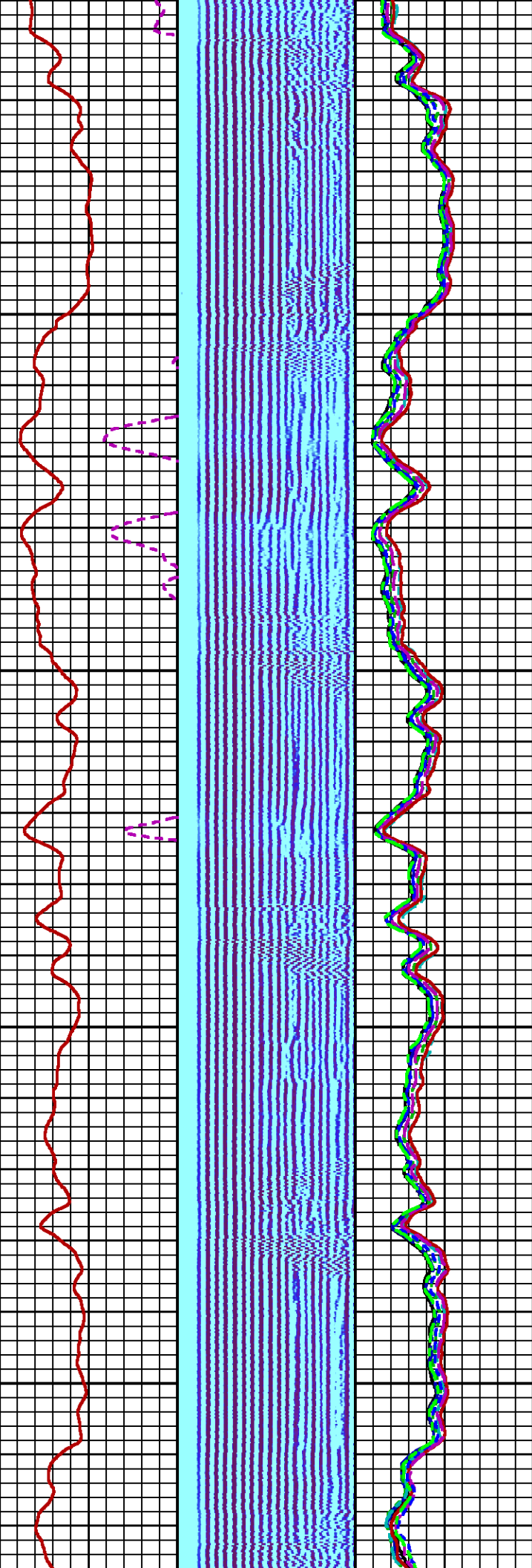
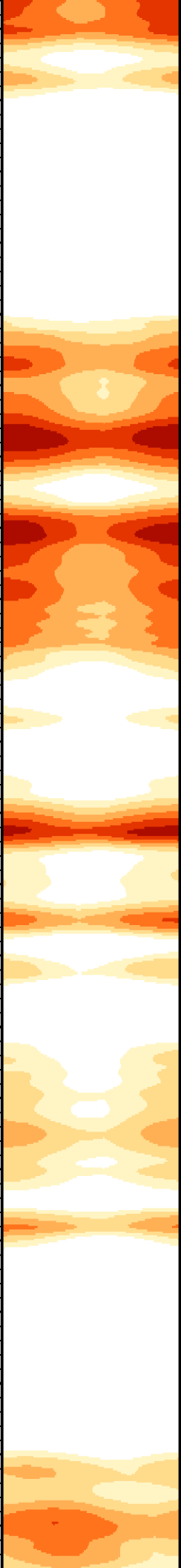




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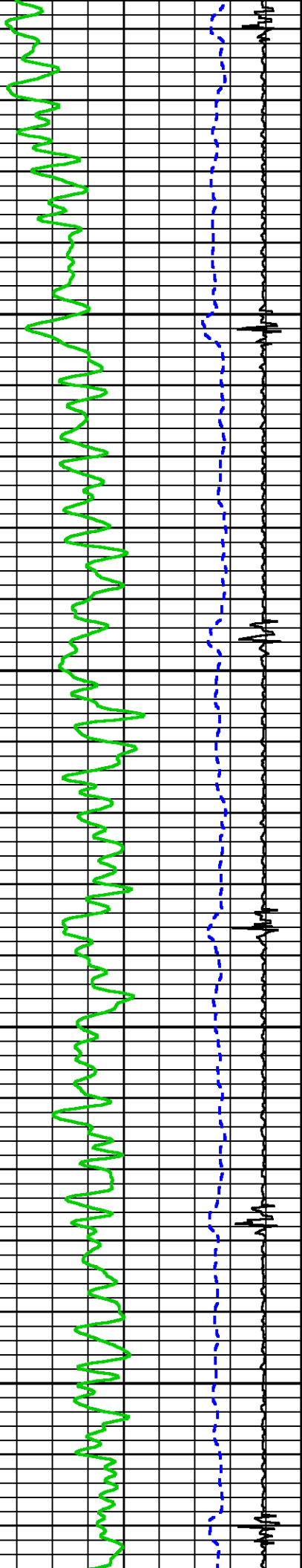
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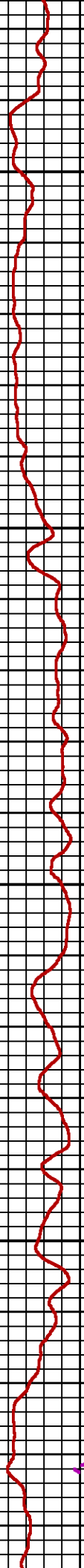
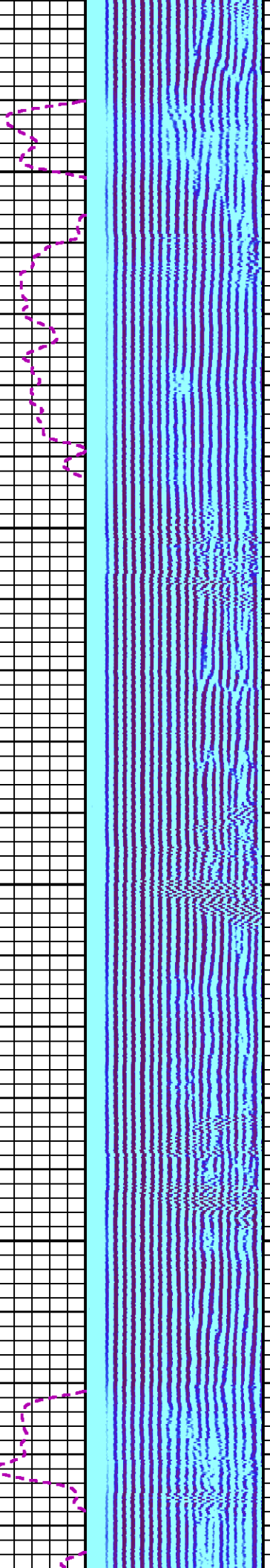
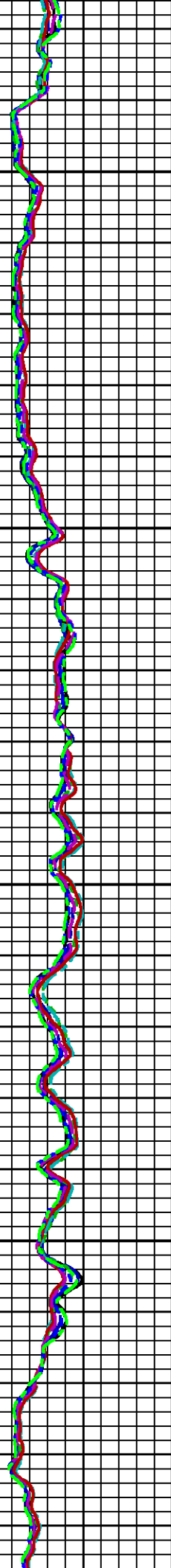
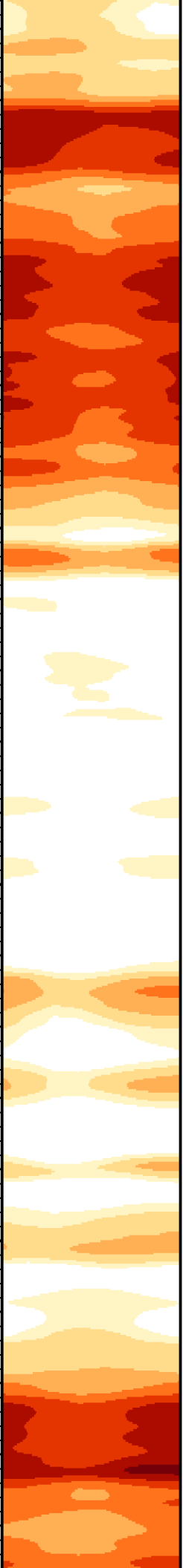




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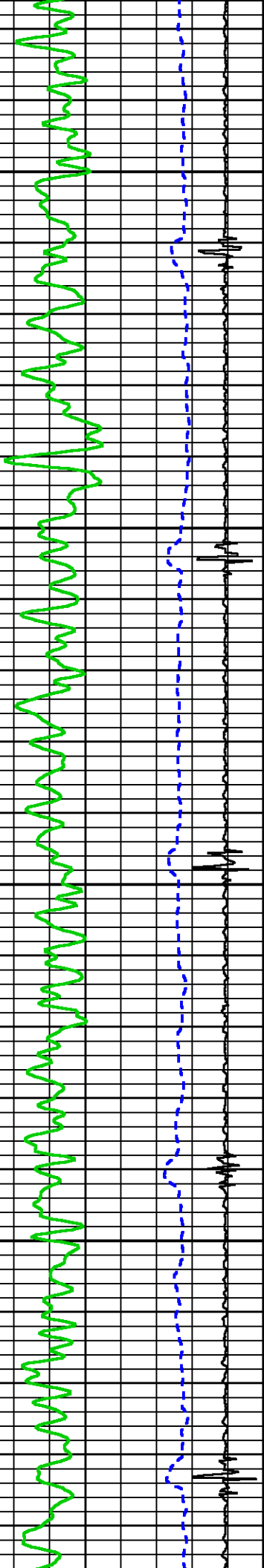
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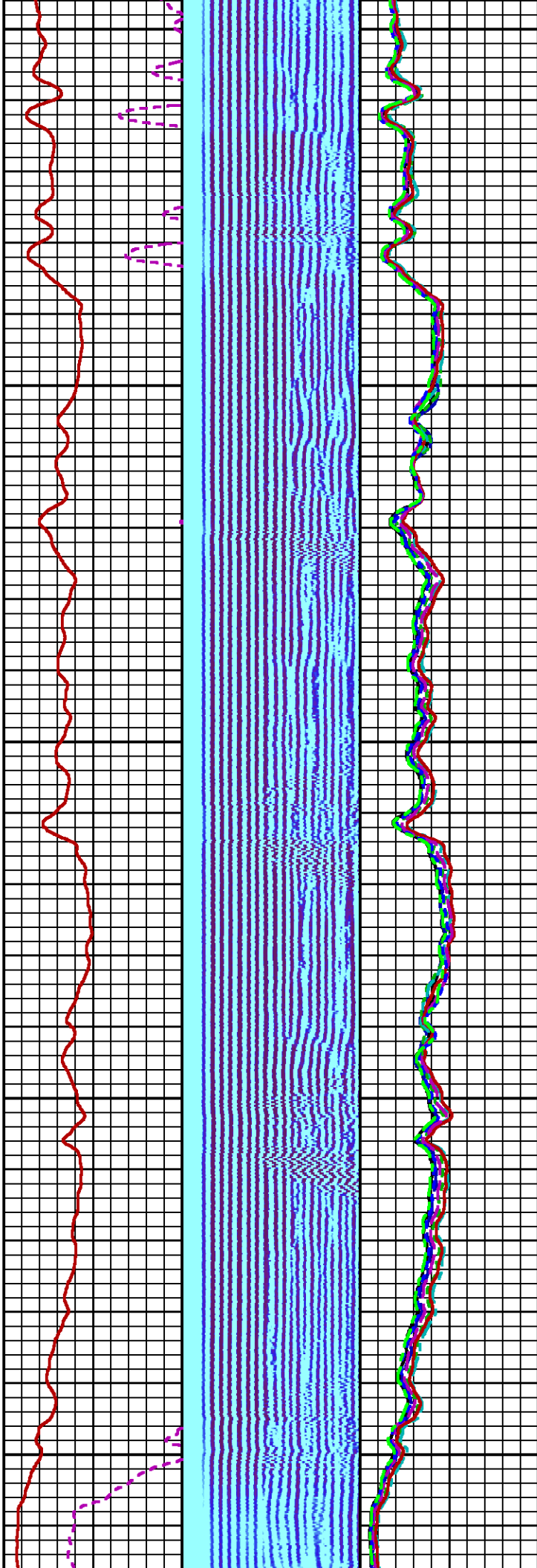
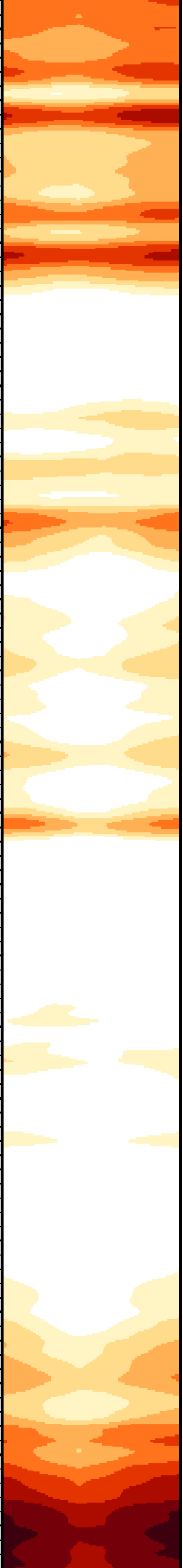




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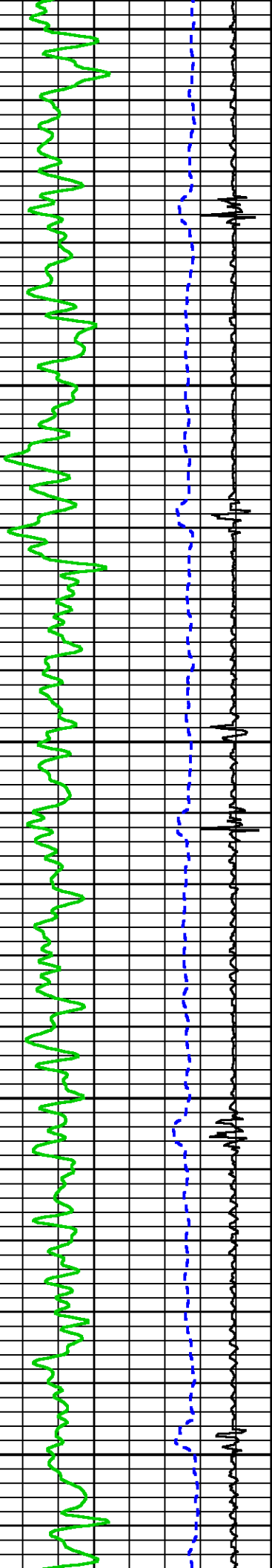


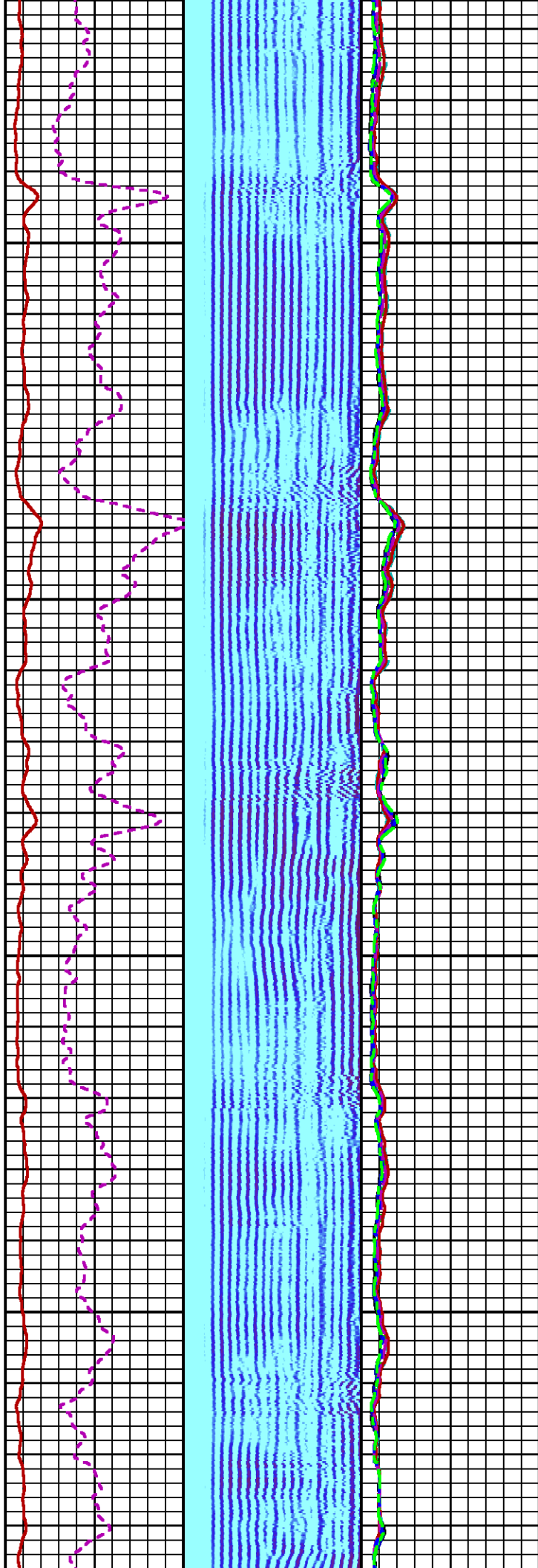
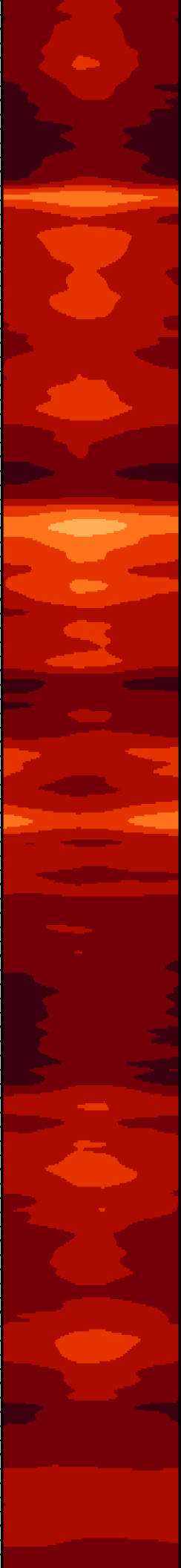


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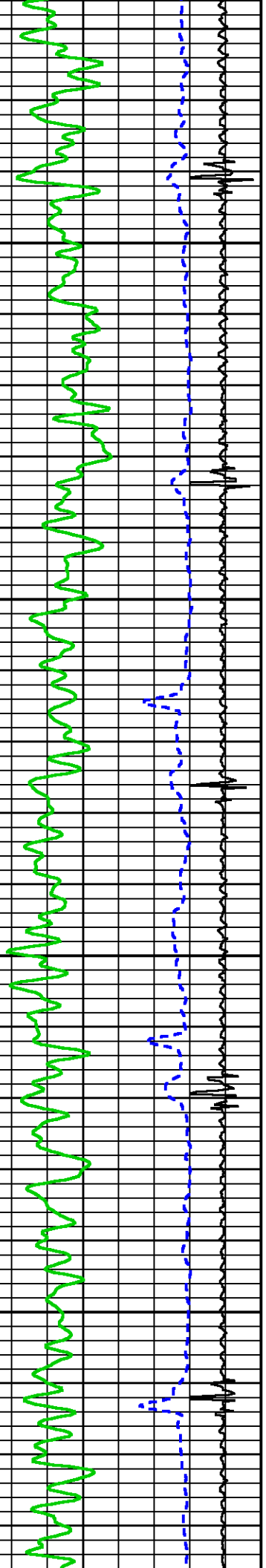
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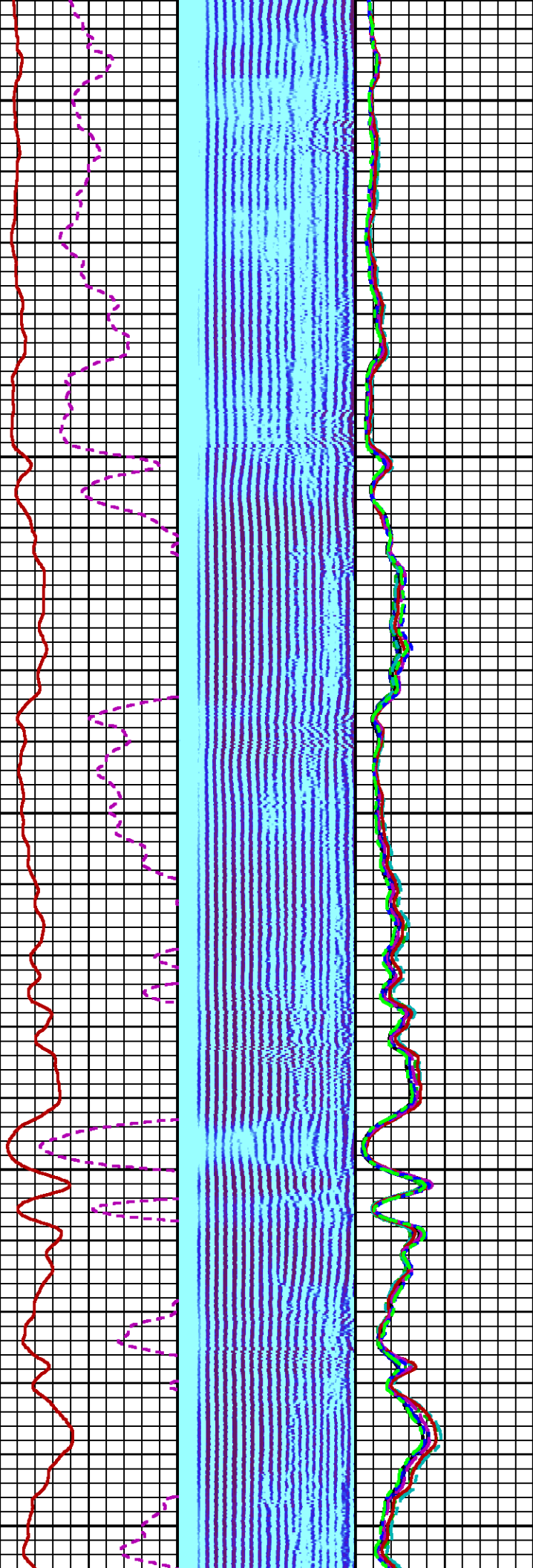
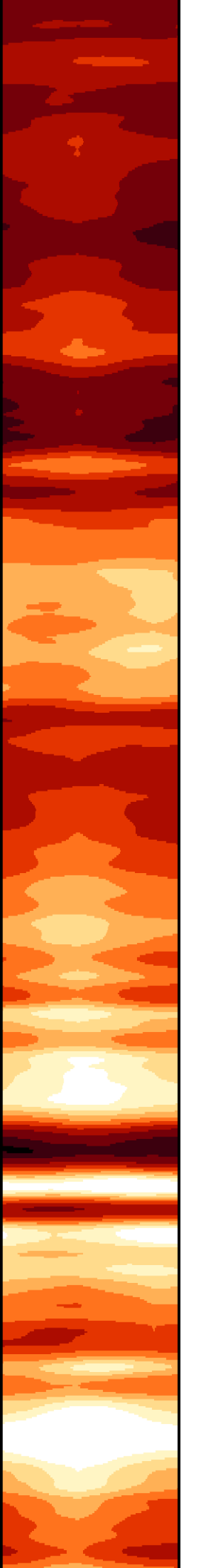




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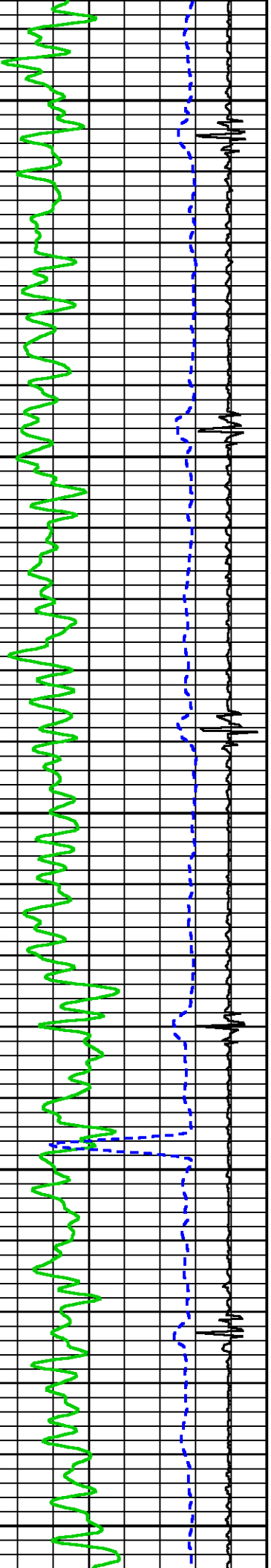
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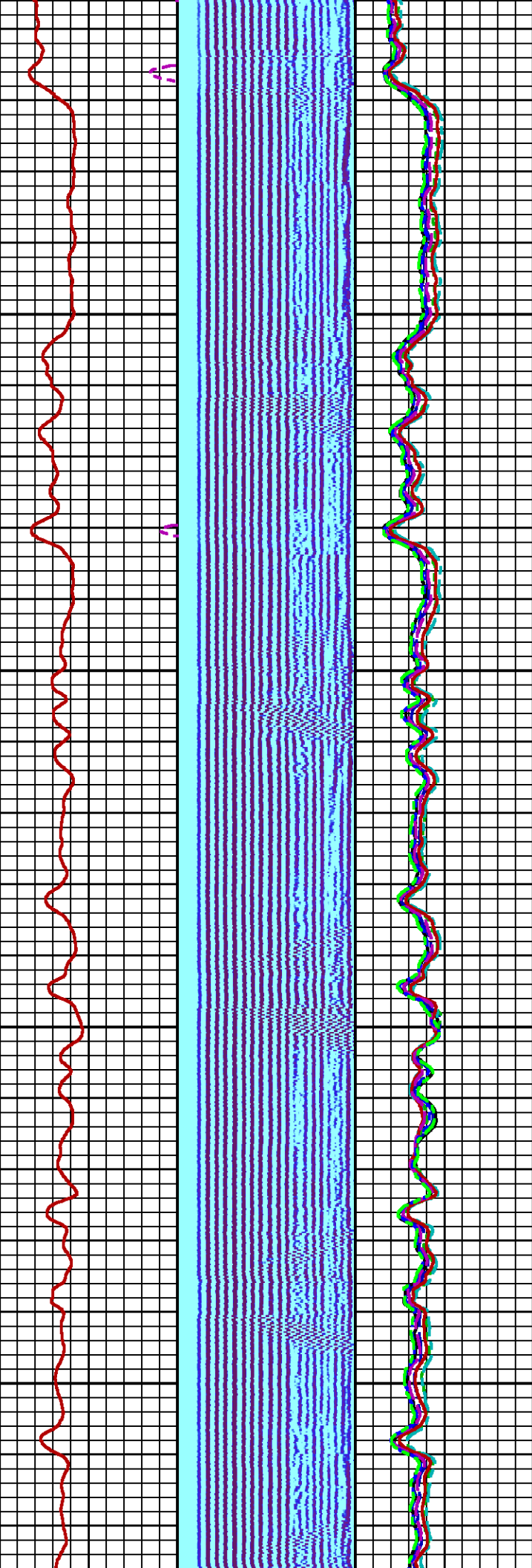
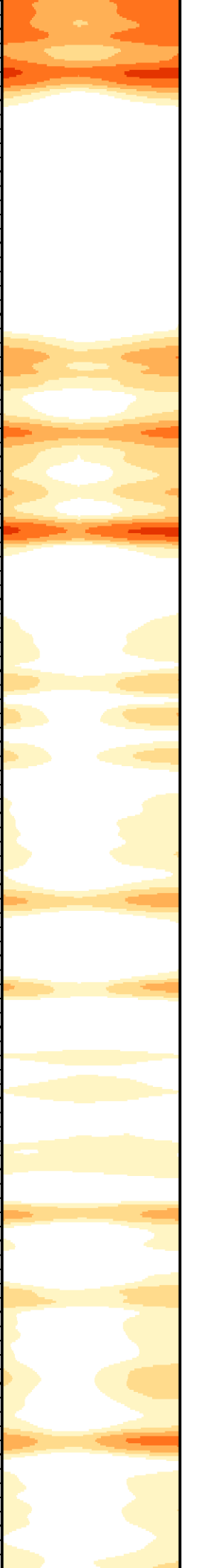




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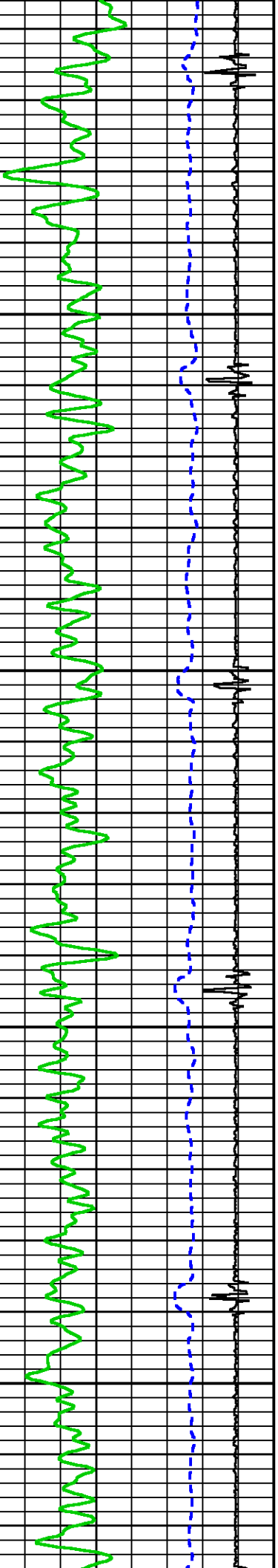
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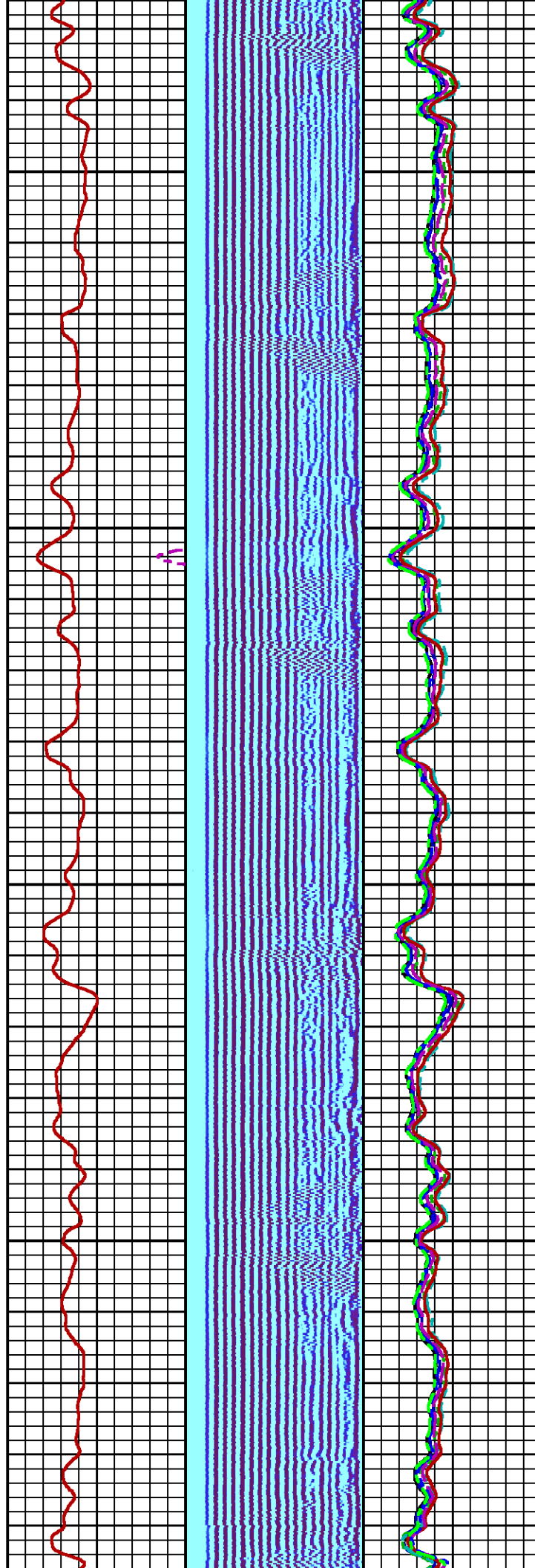
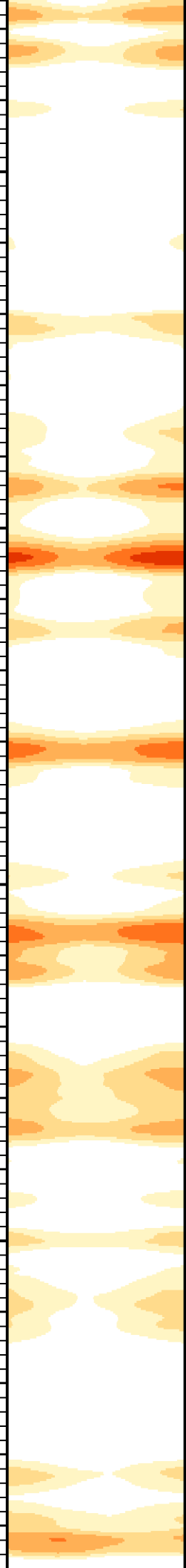




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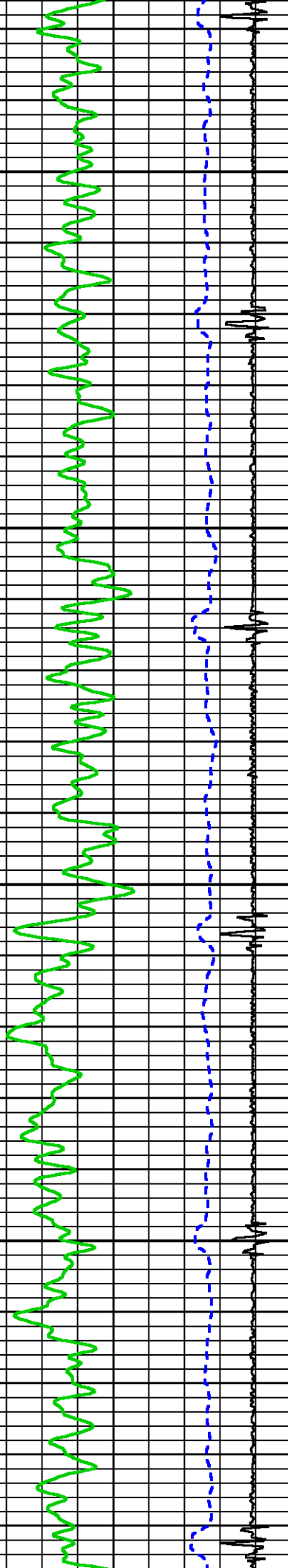
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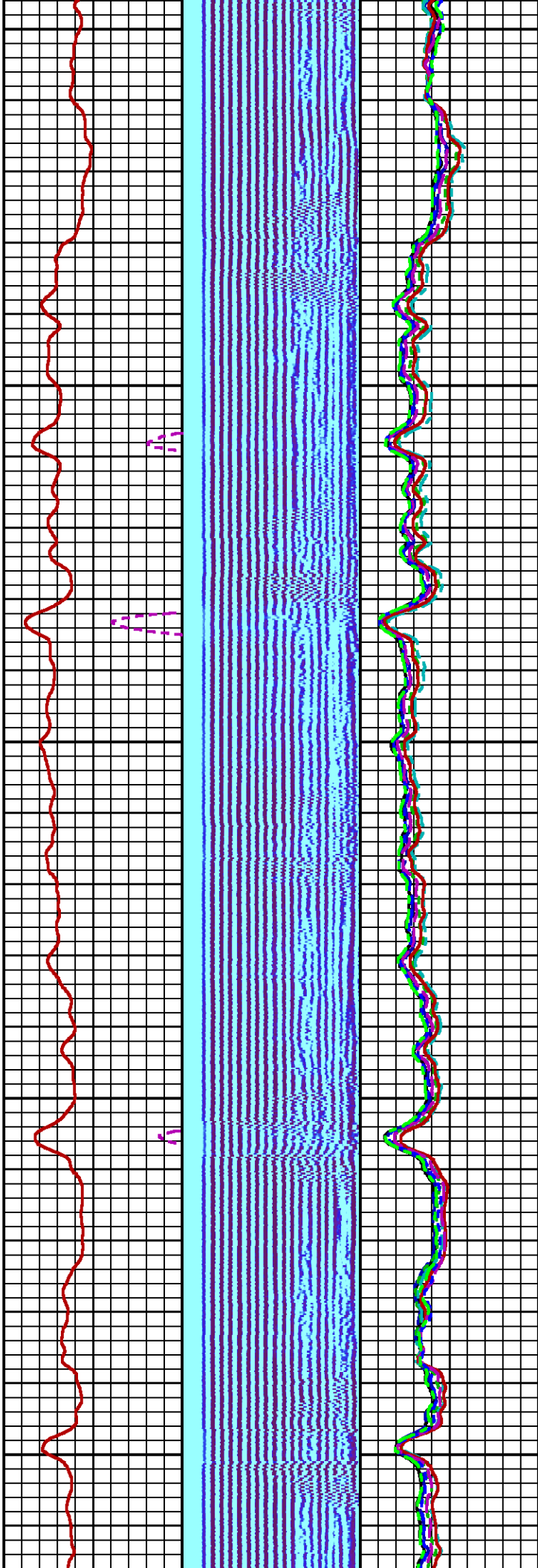
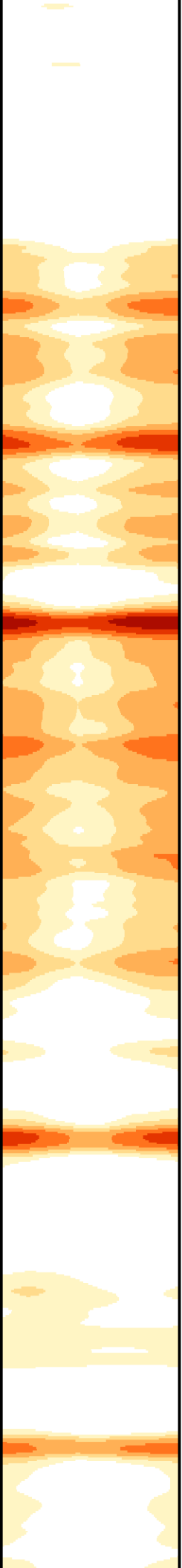




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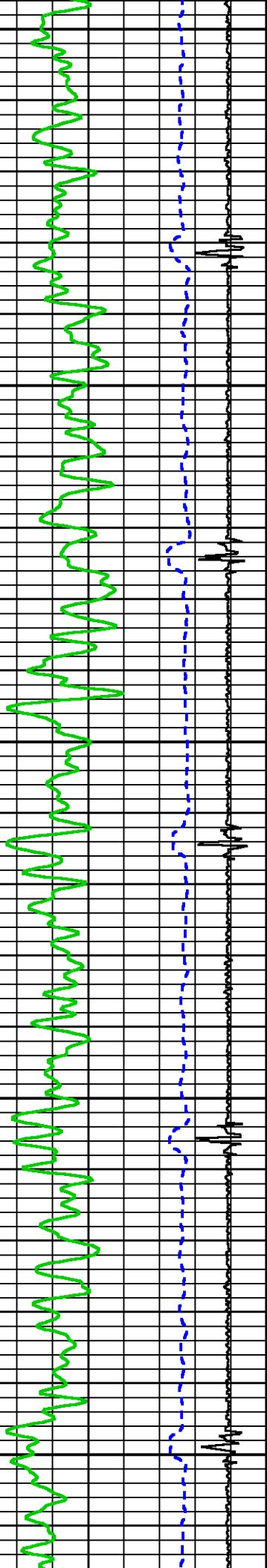


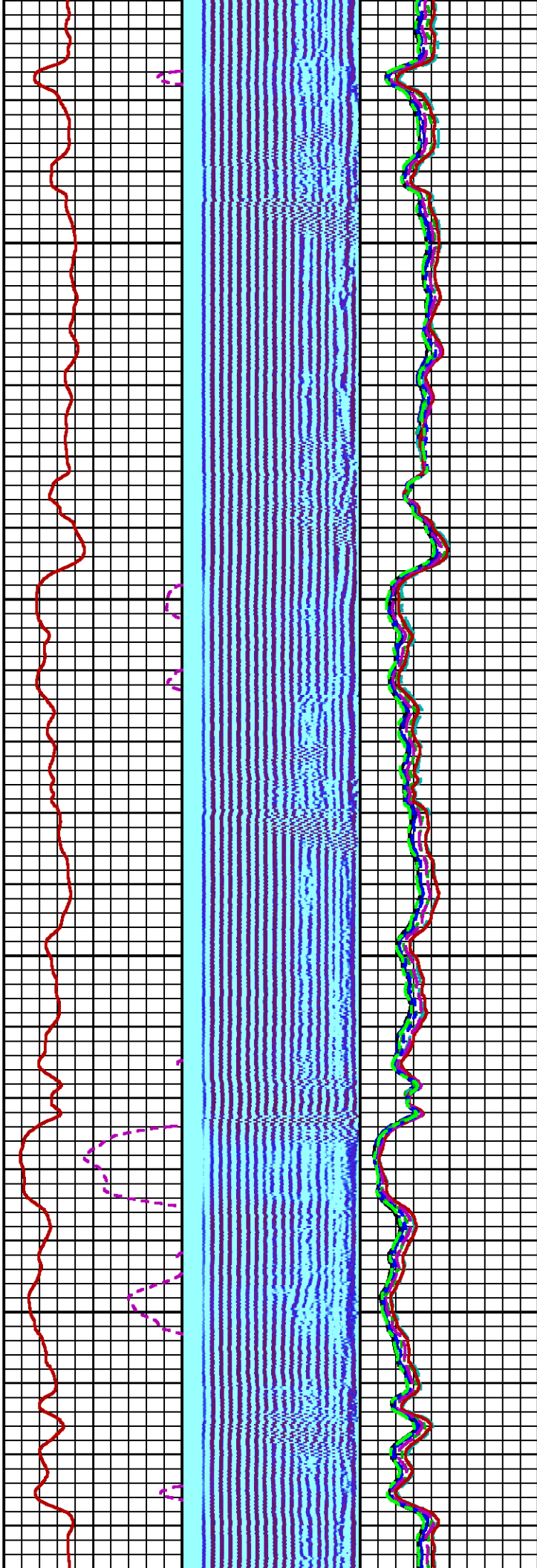
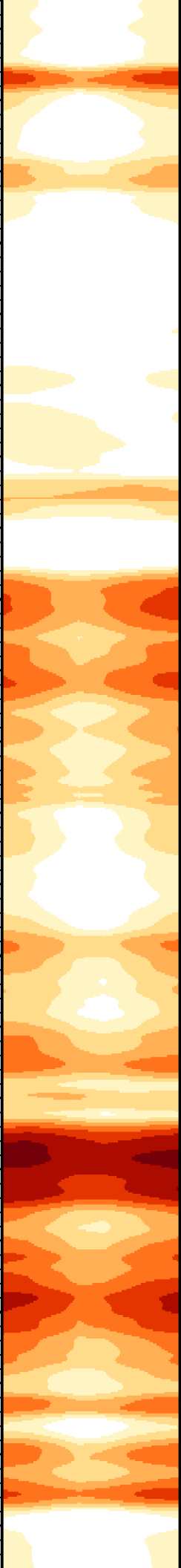


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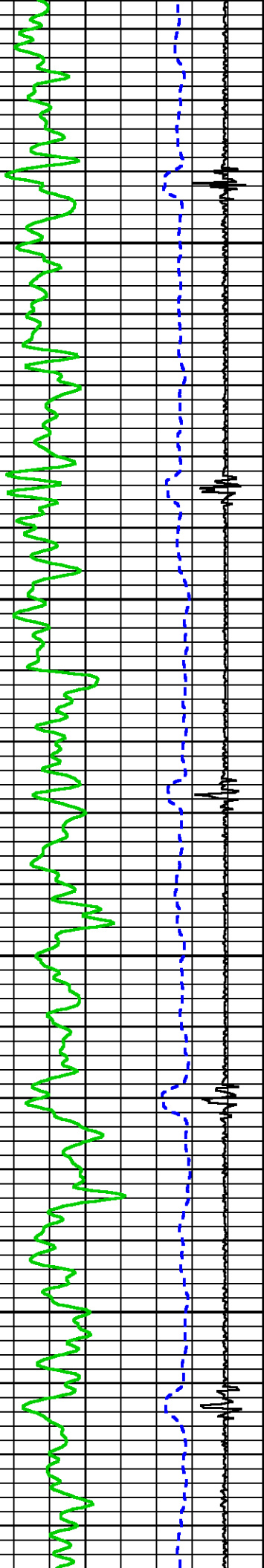
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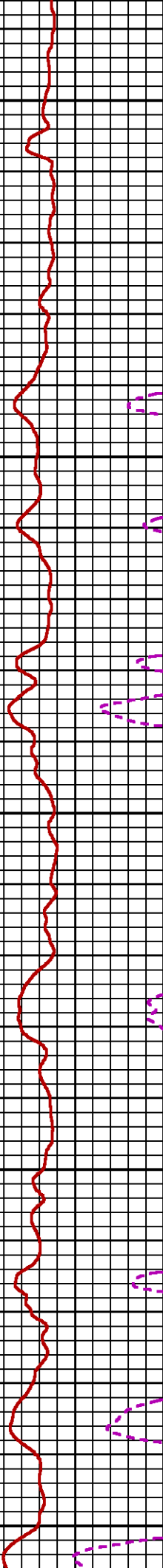
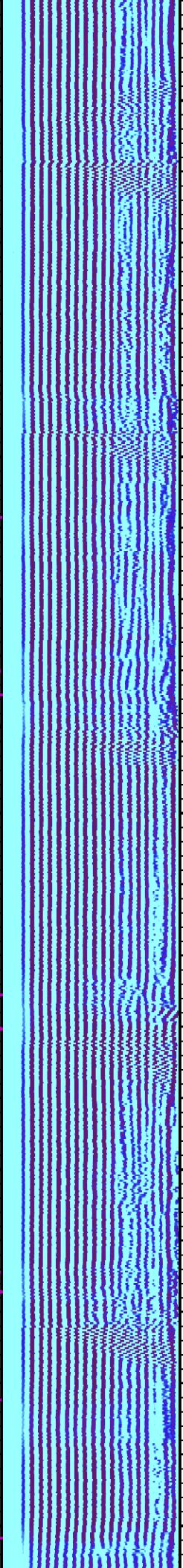
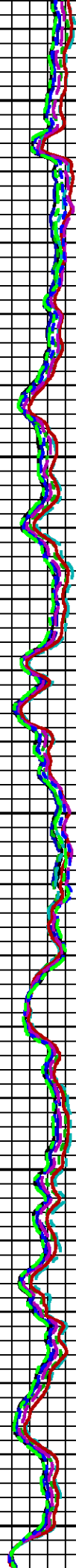
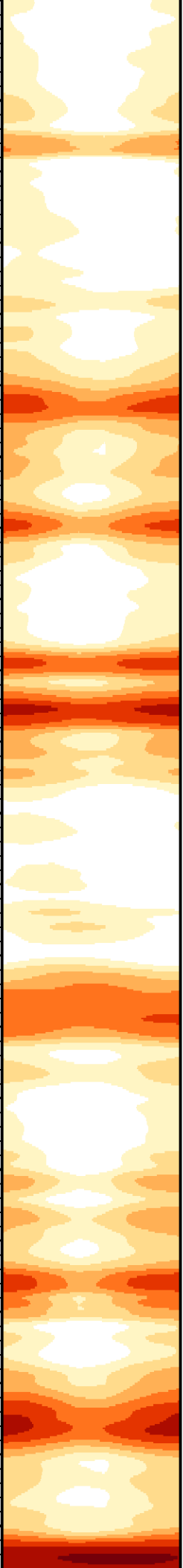




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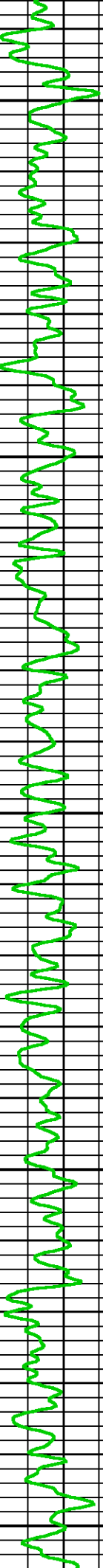
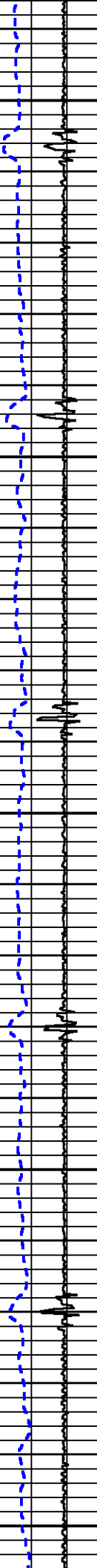
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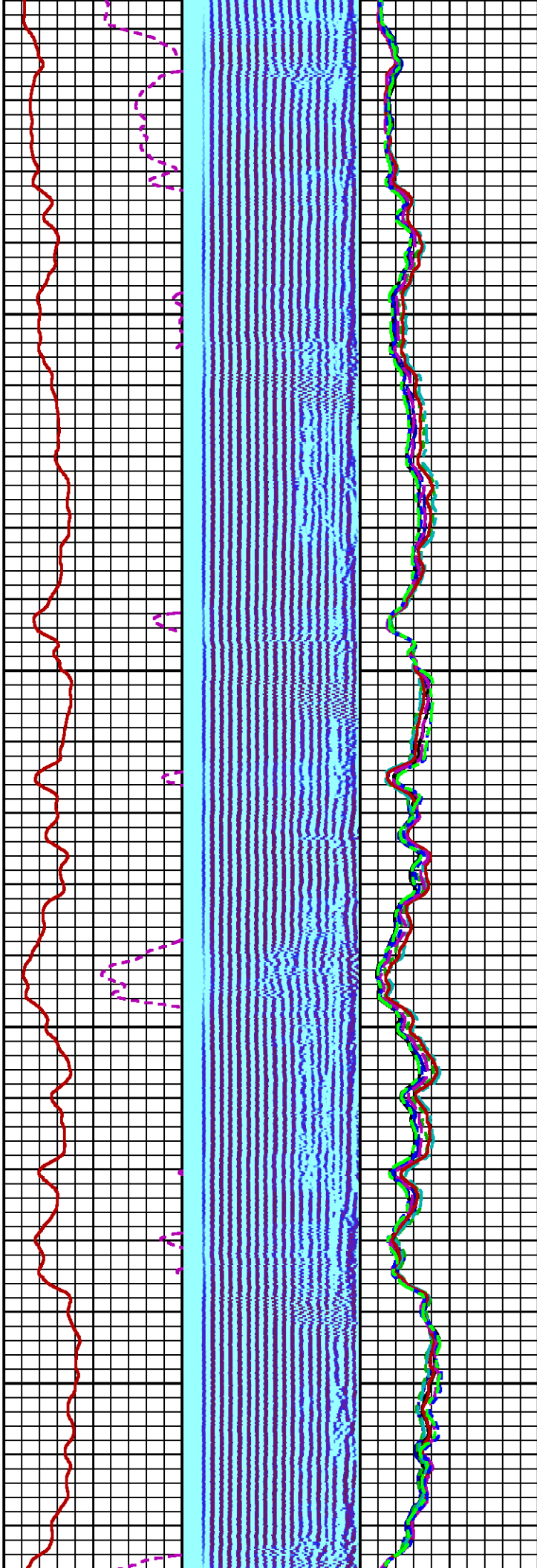
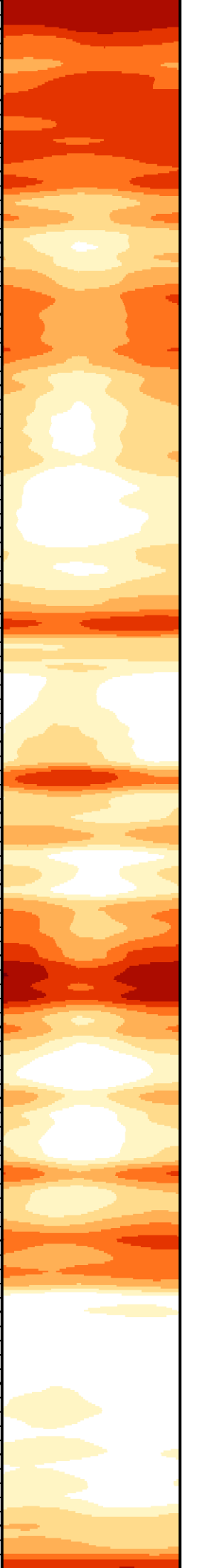




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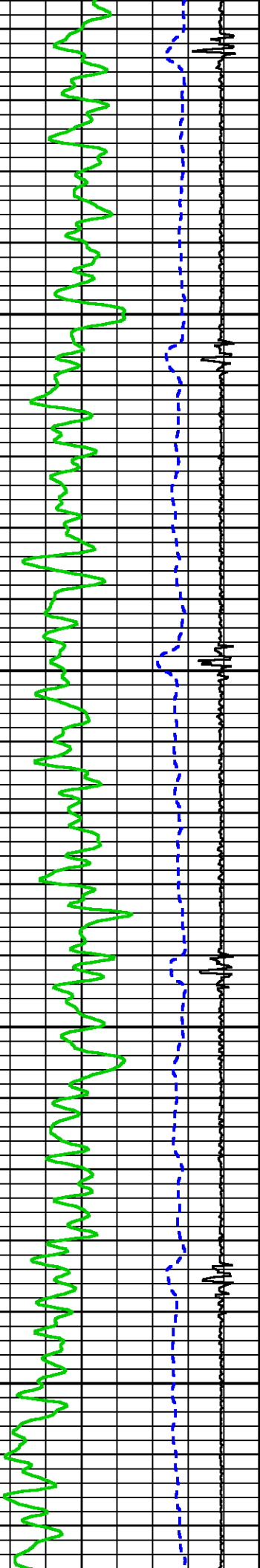
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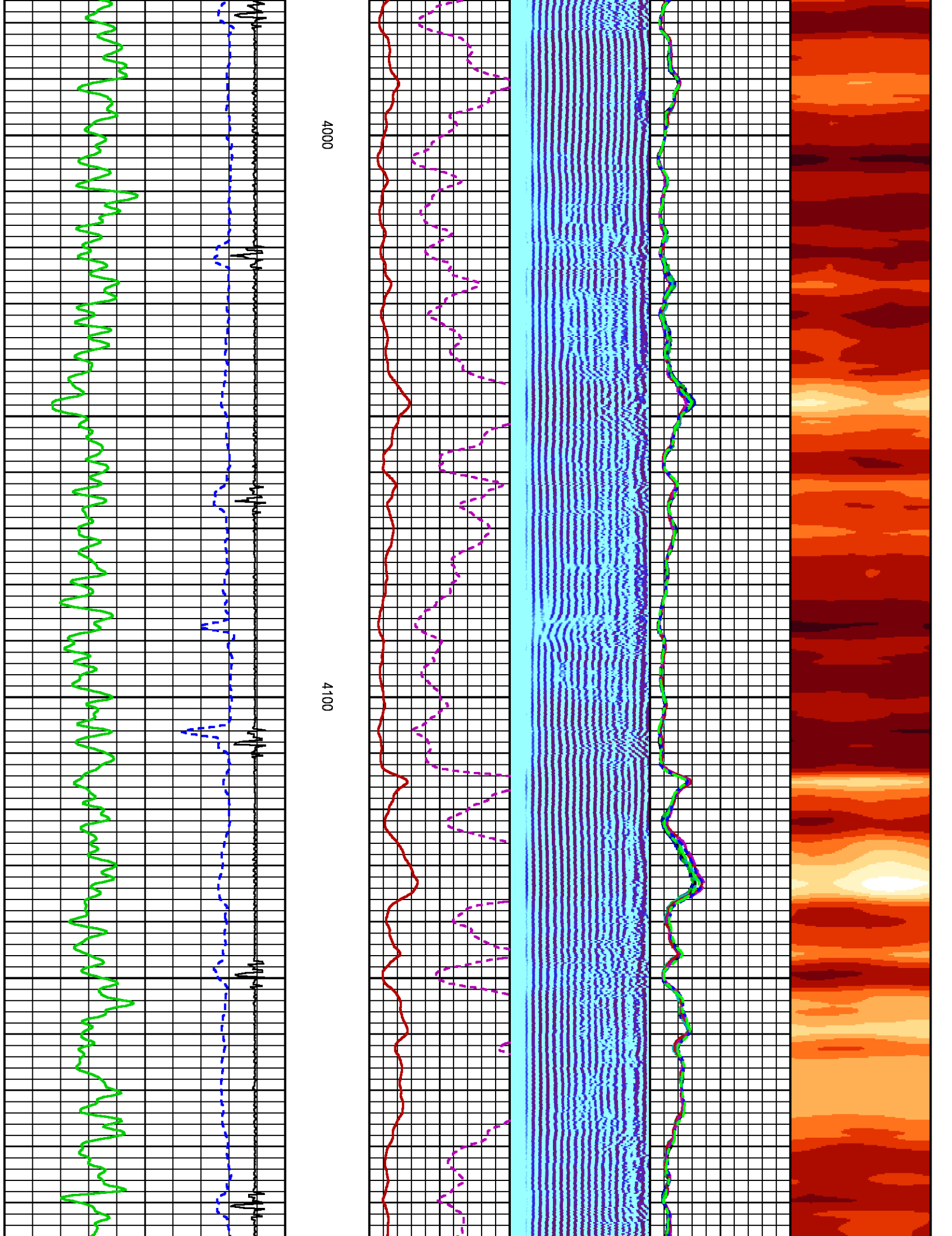


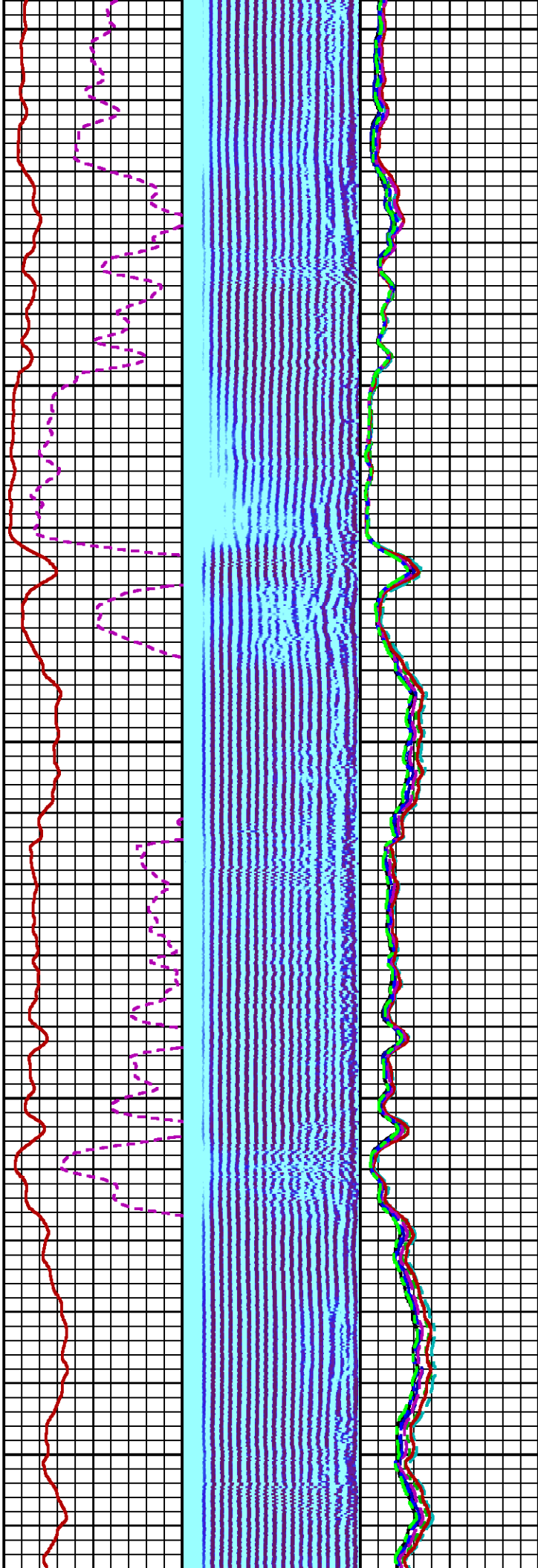
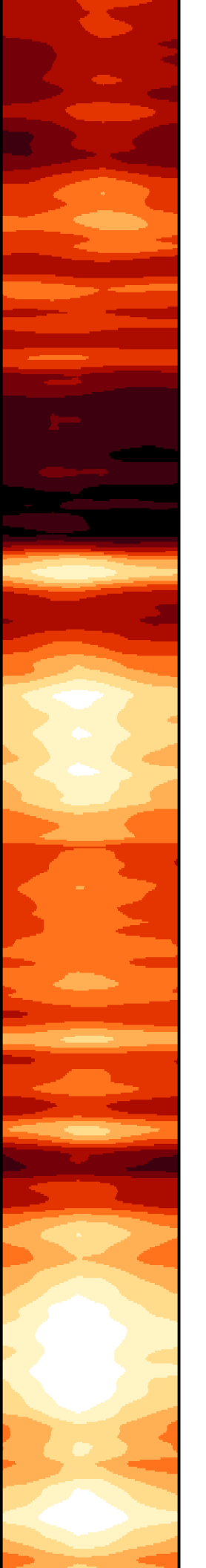


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3900



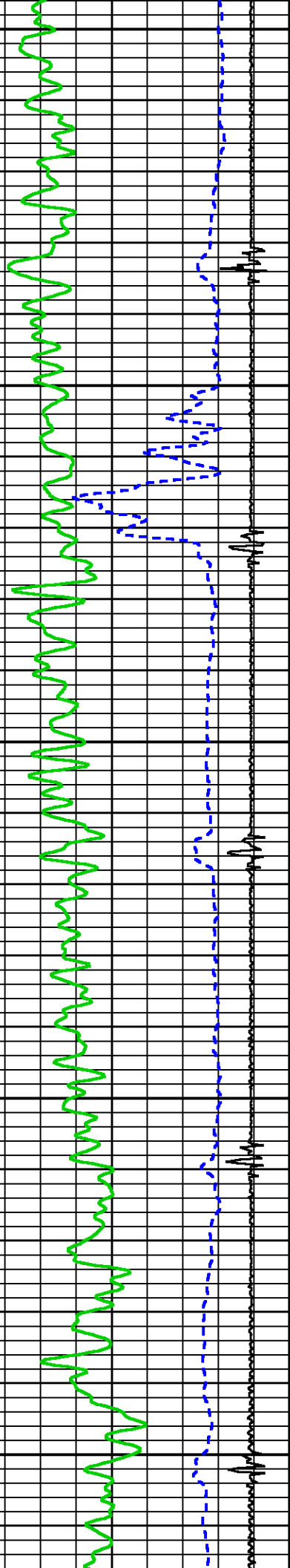


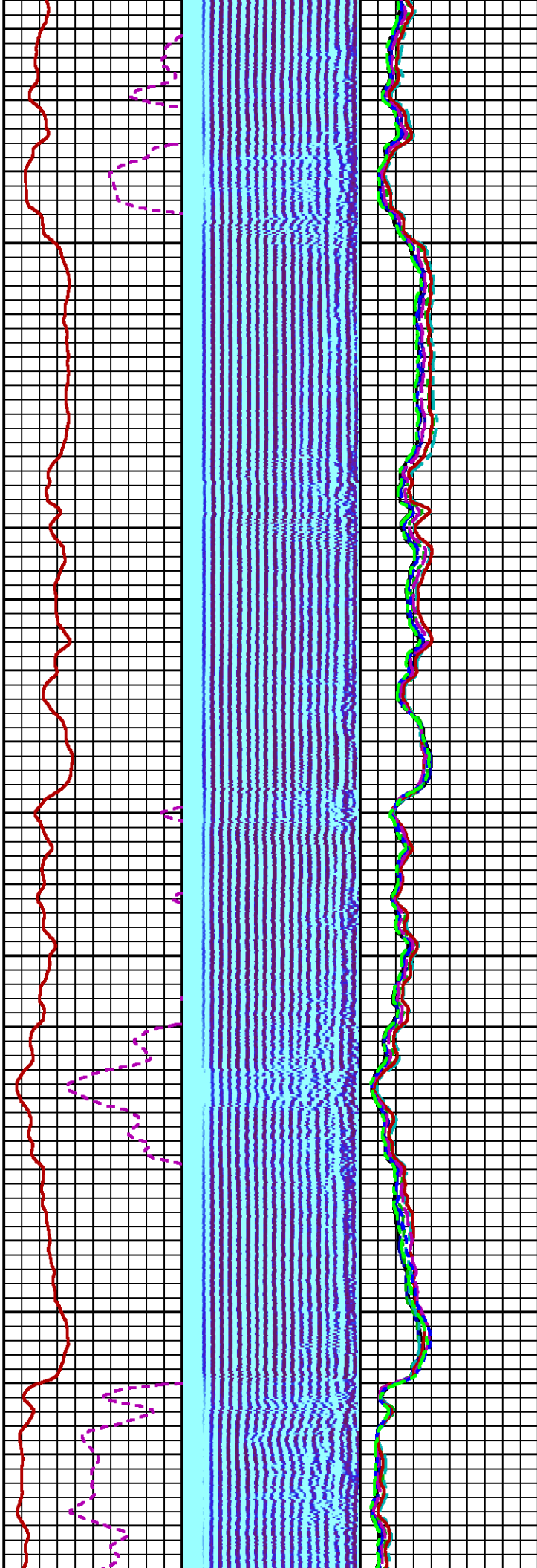
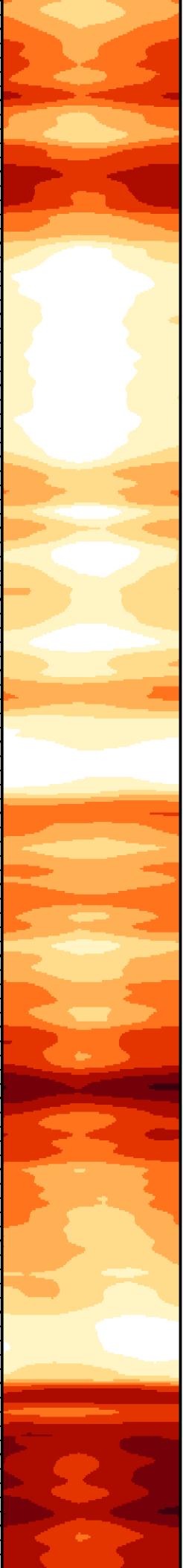


4200

4300

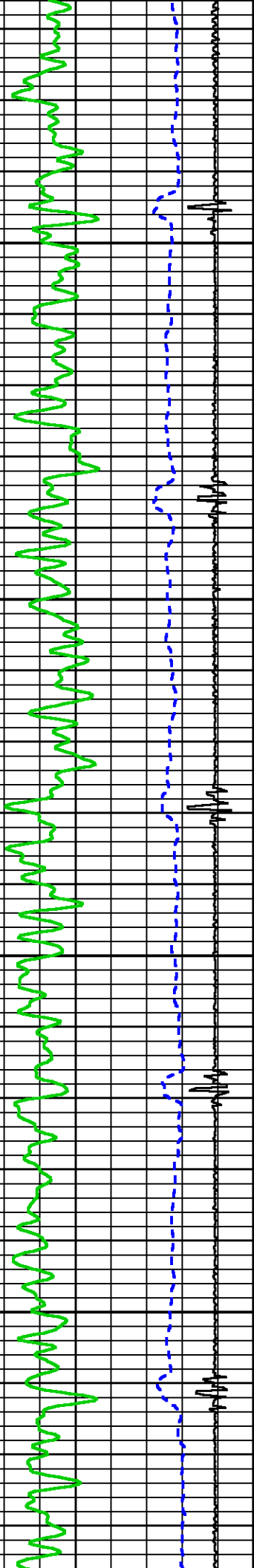
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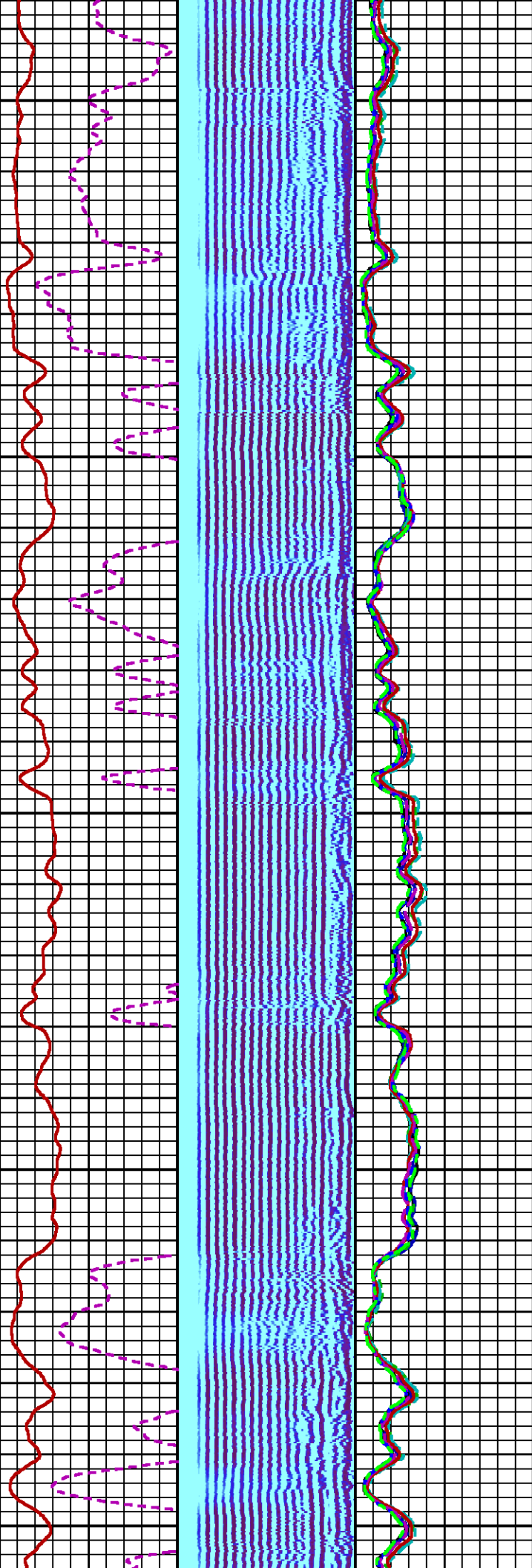
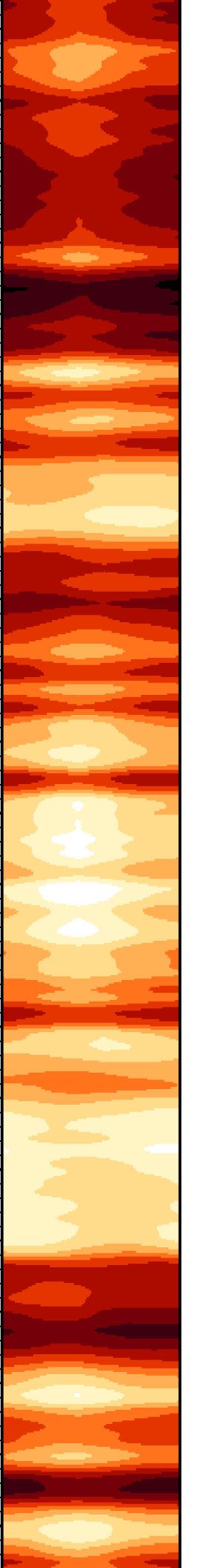




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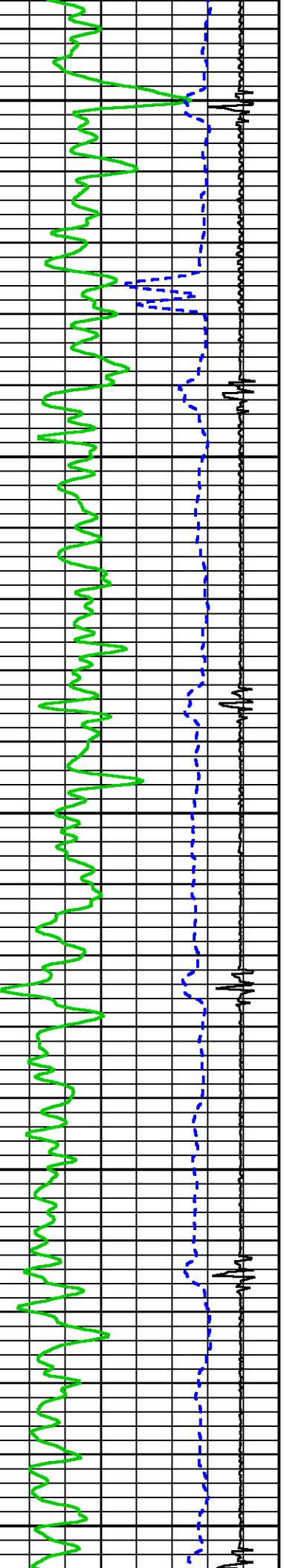
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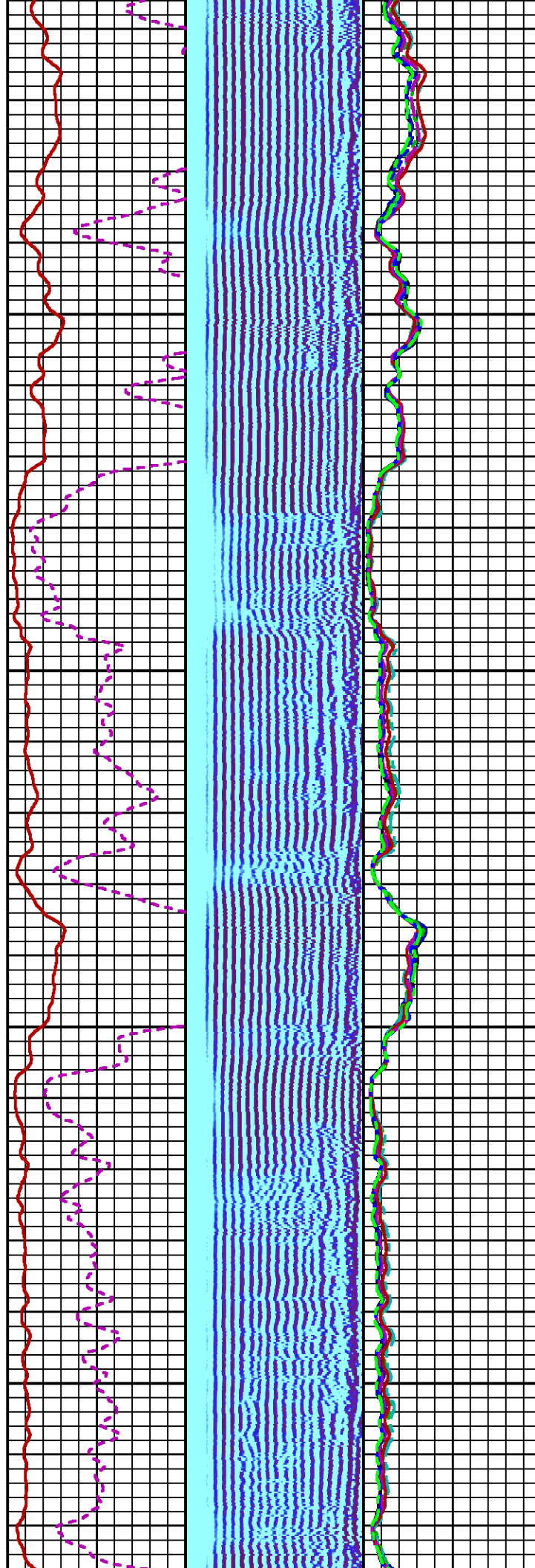
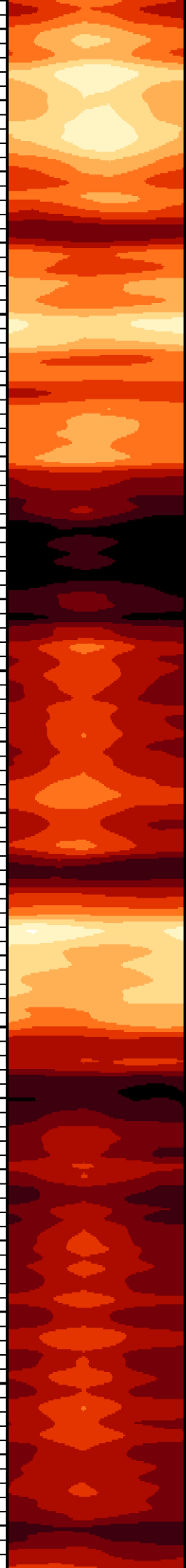




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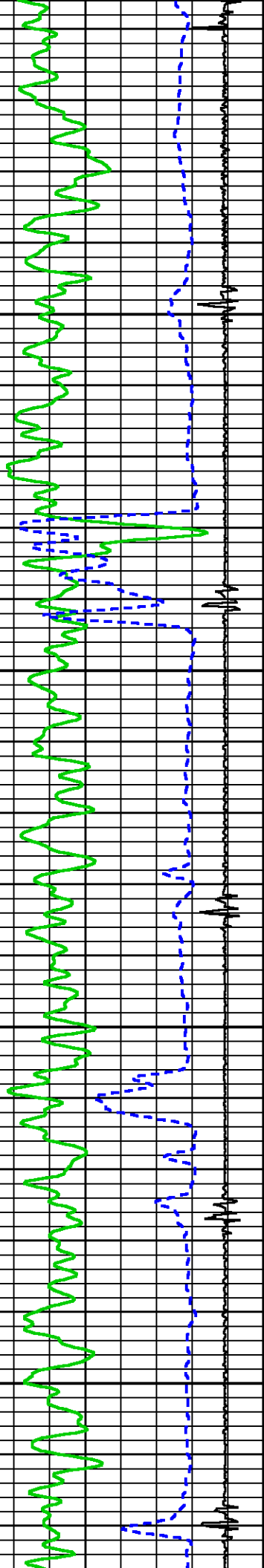
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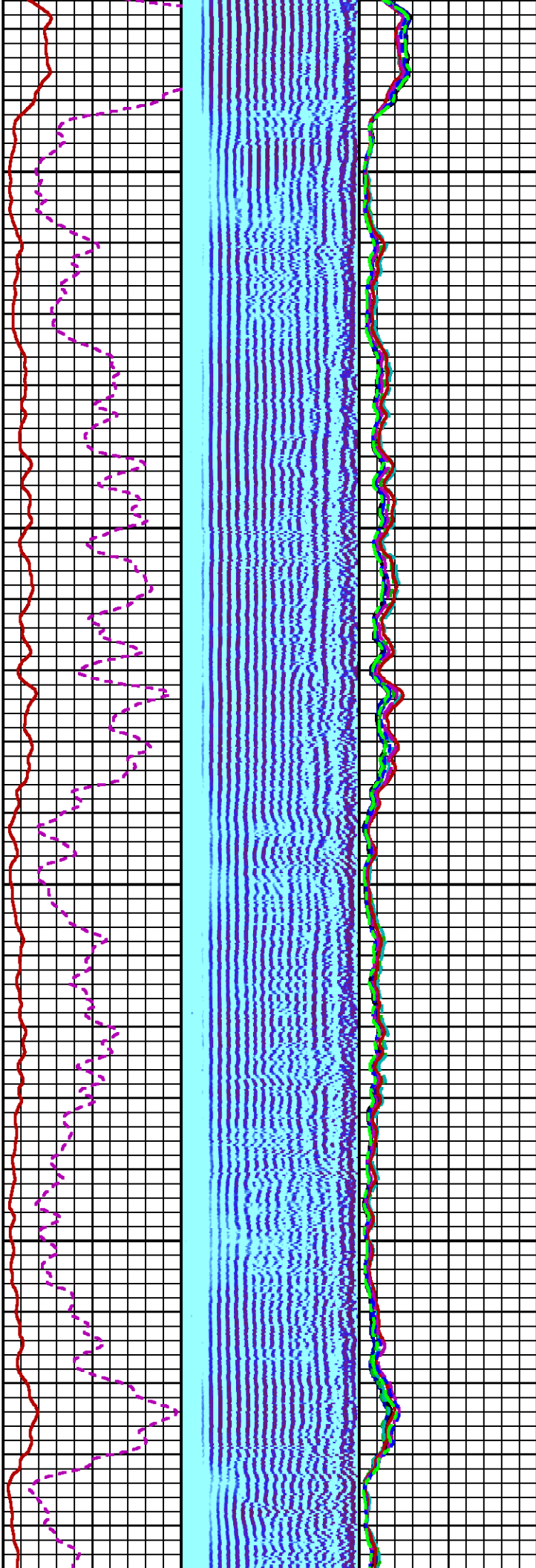




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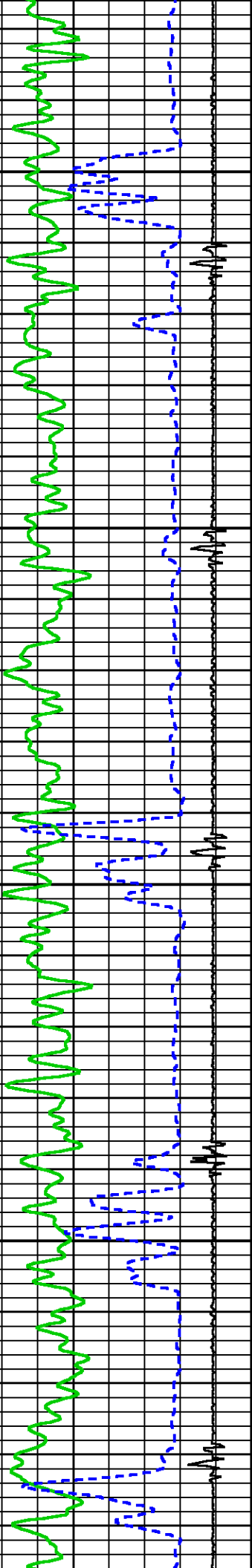
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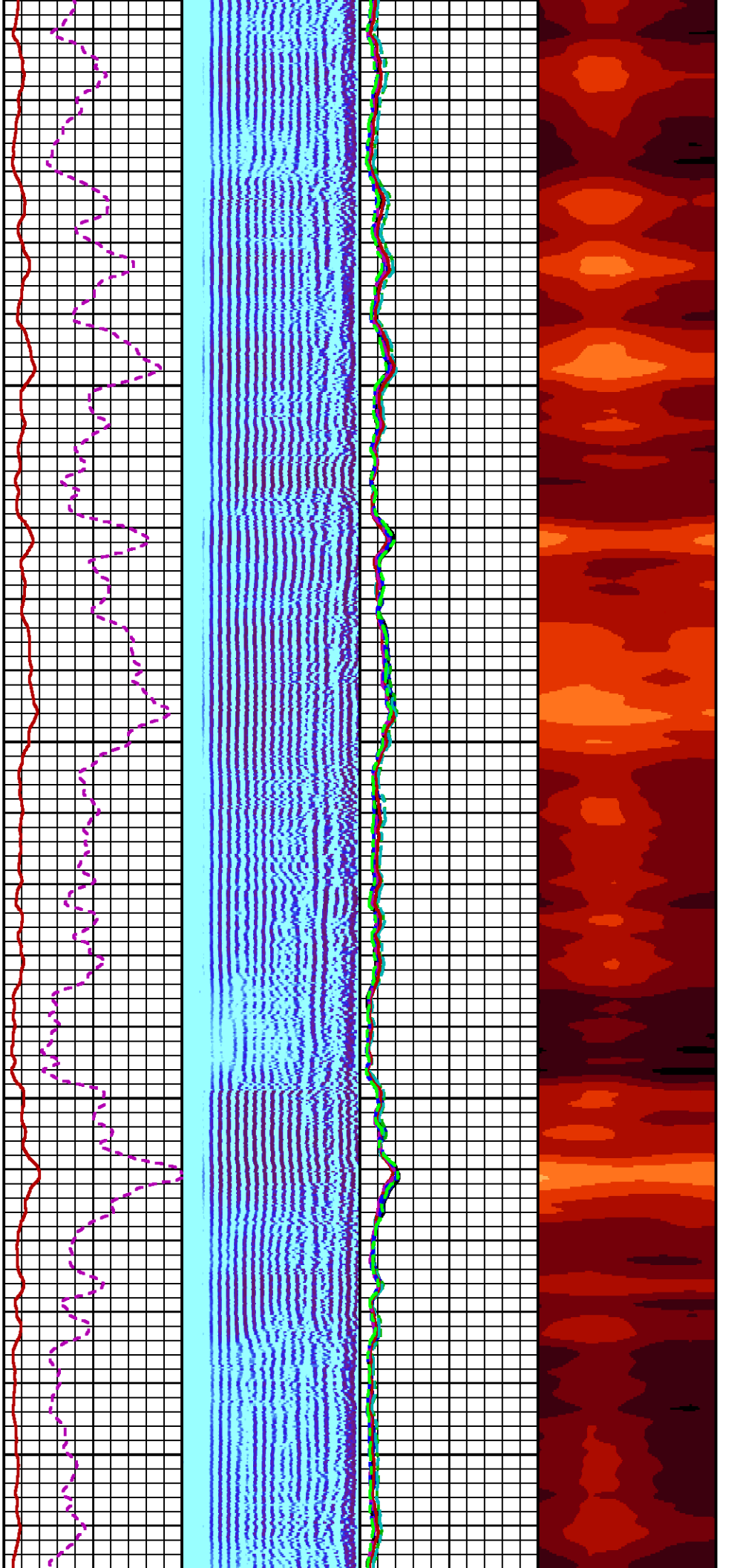




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5200

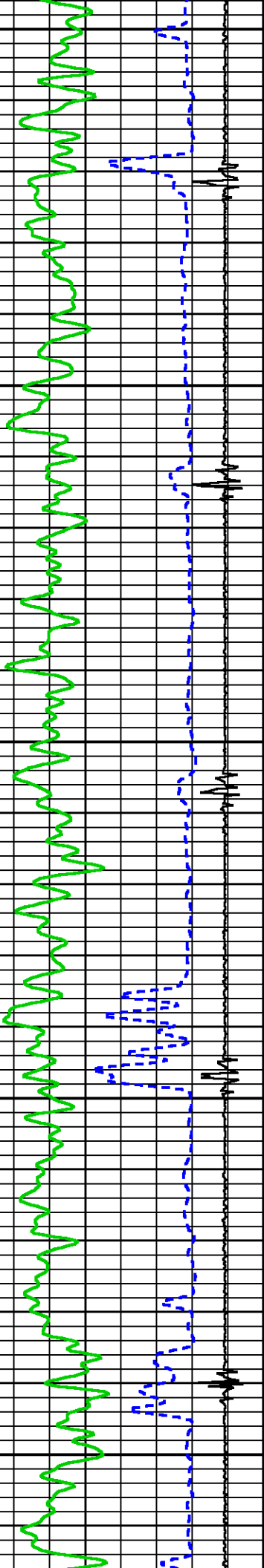


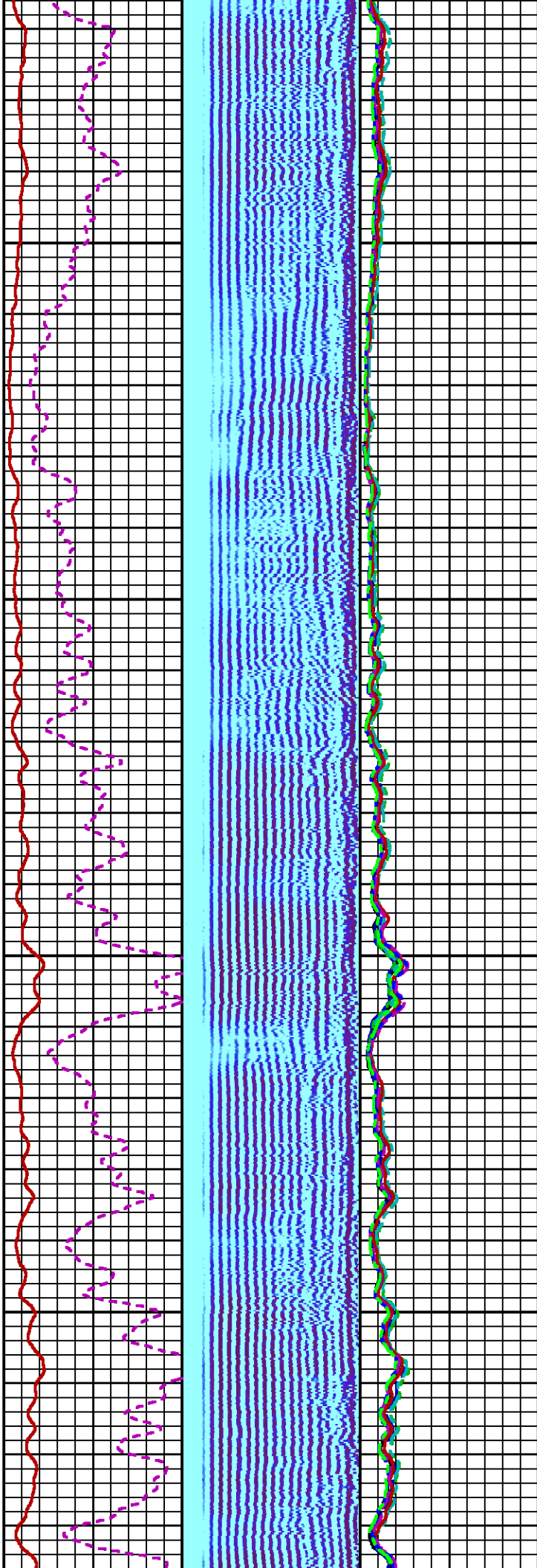
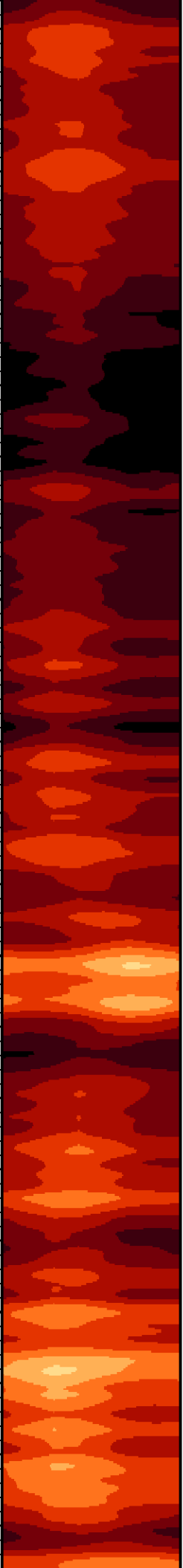


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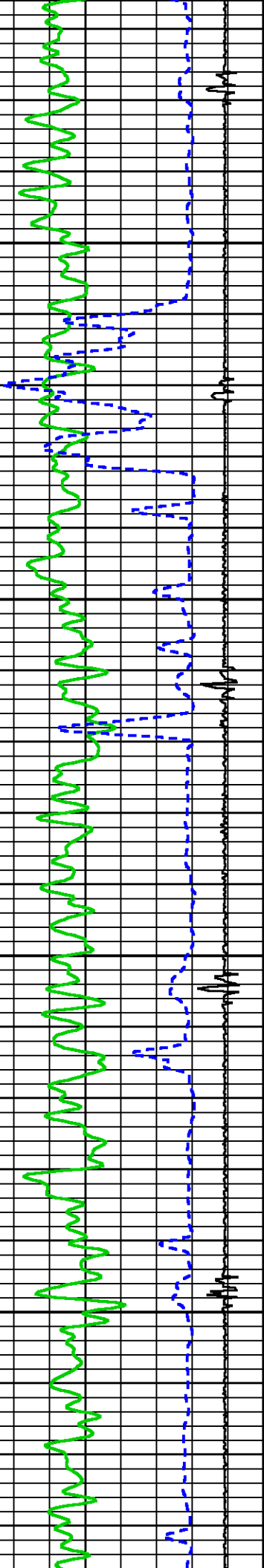
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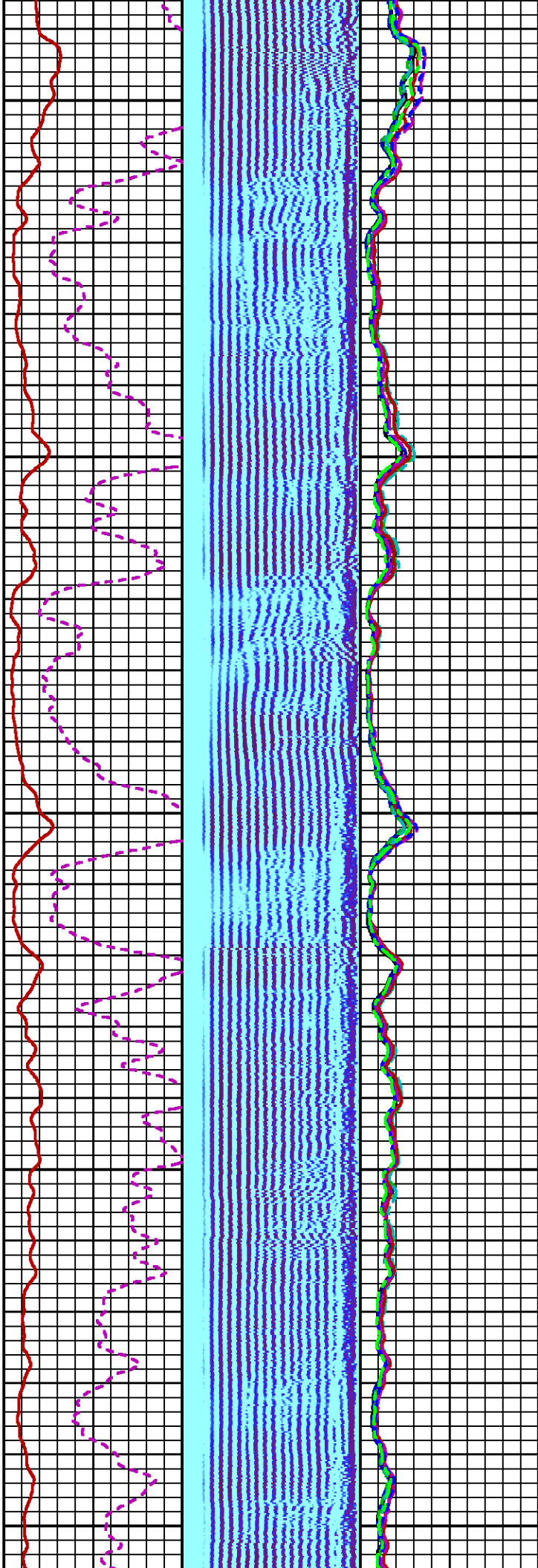
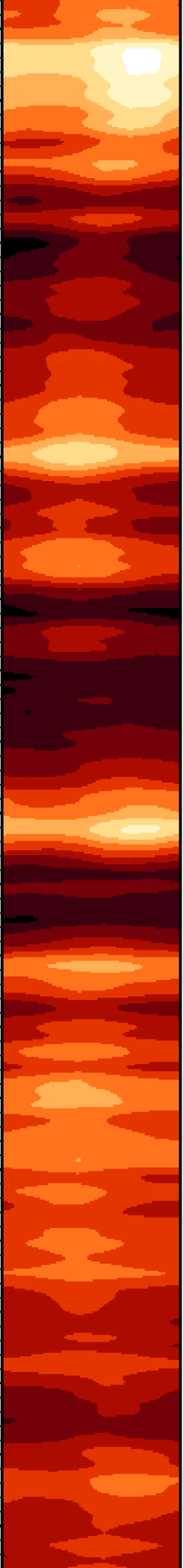




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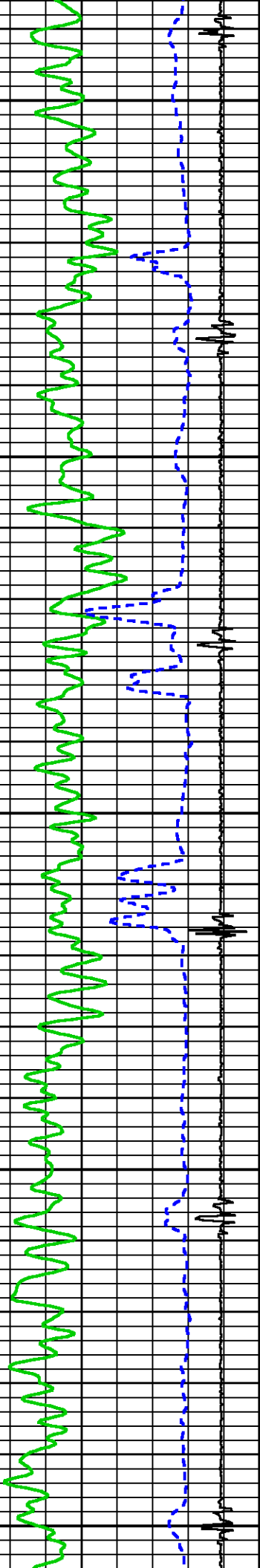
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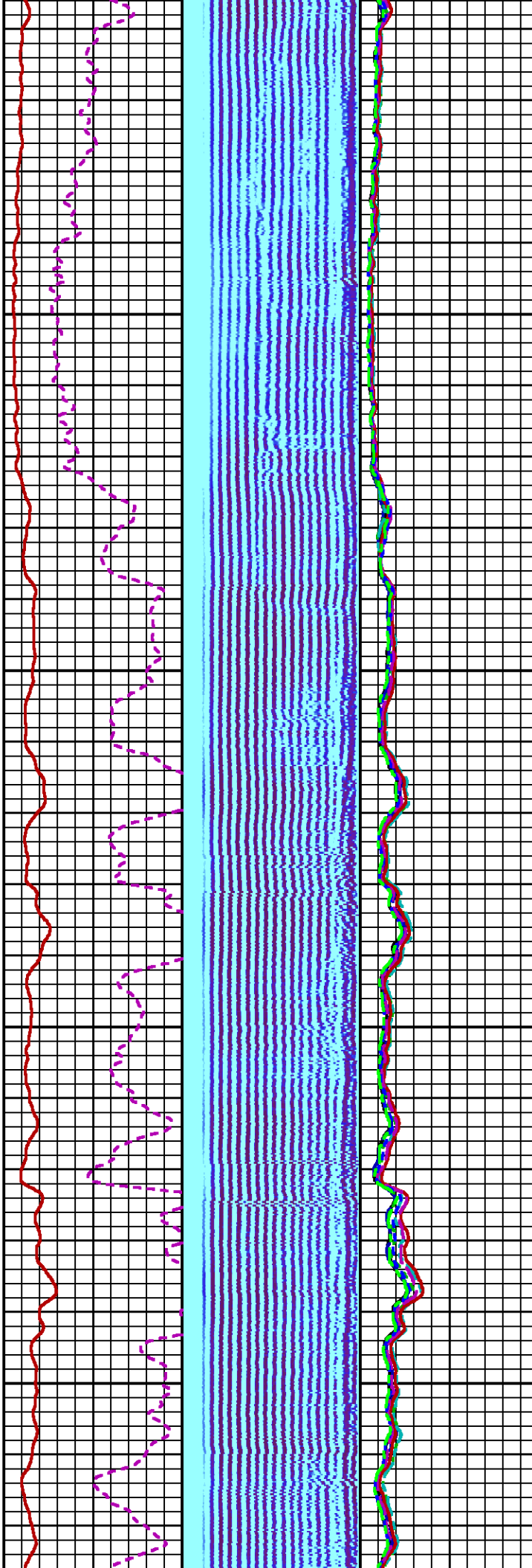
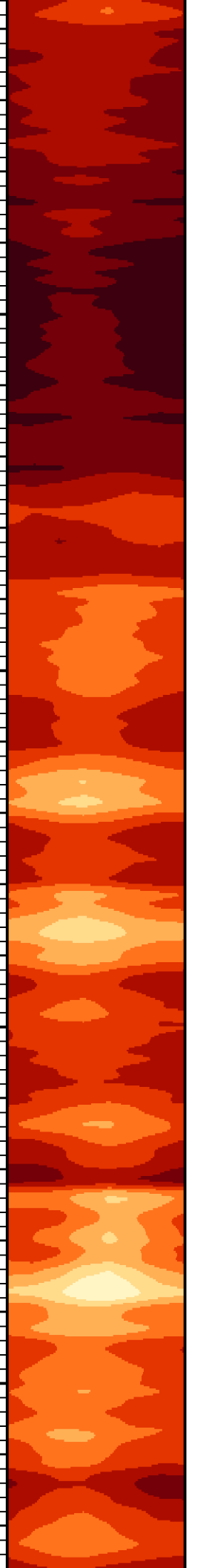




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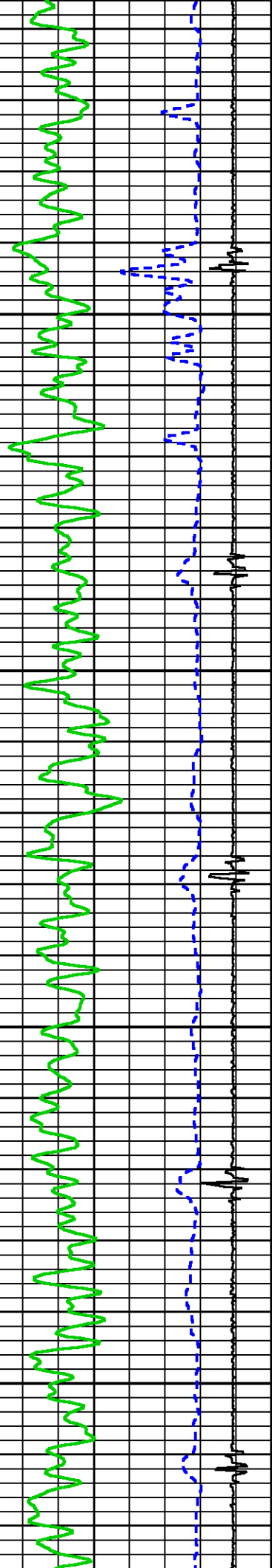
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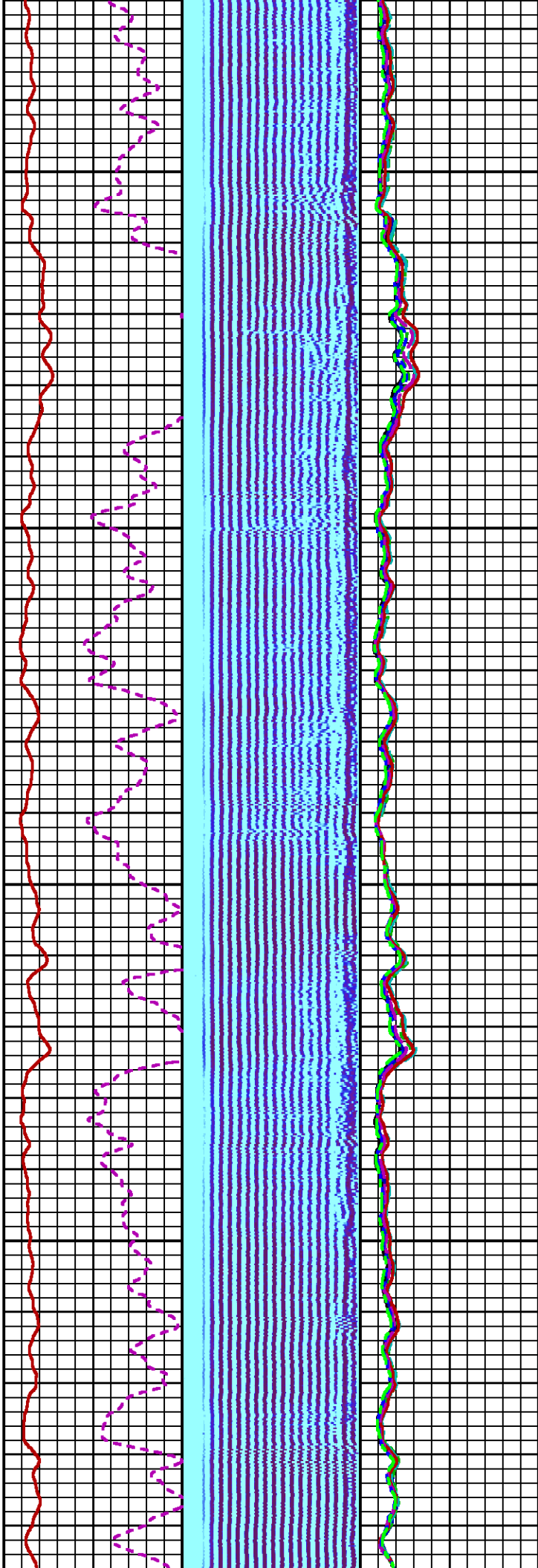




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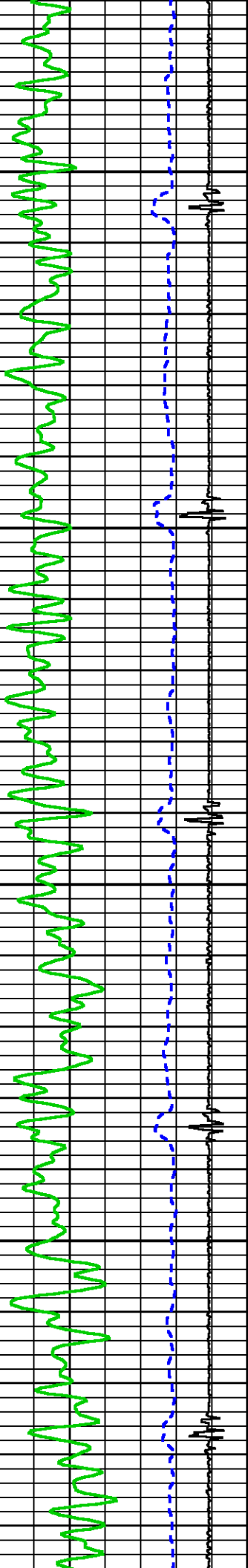
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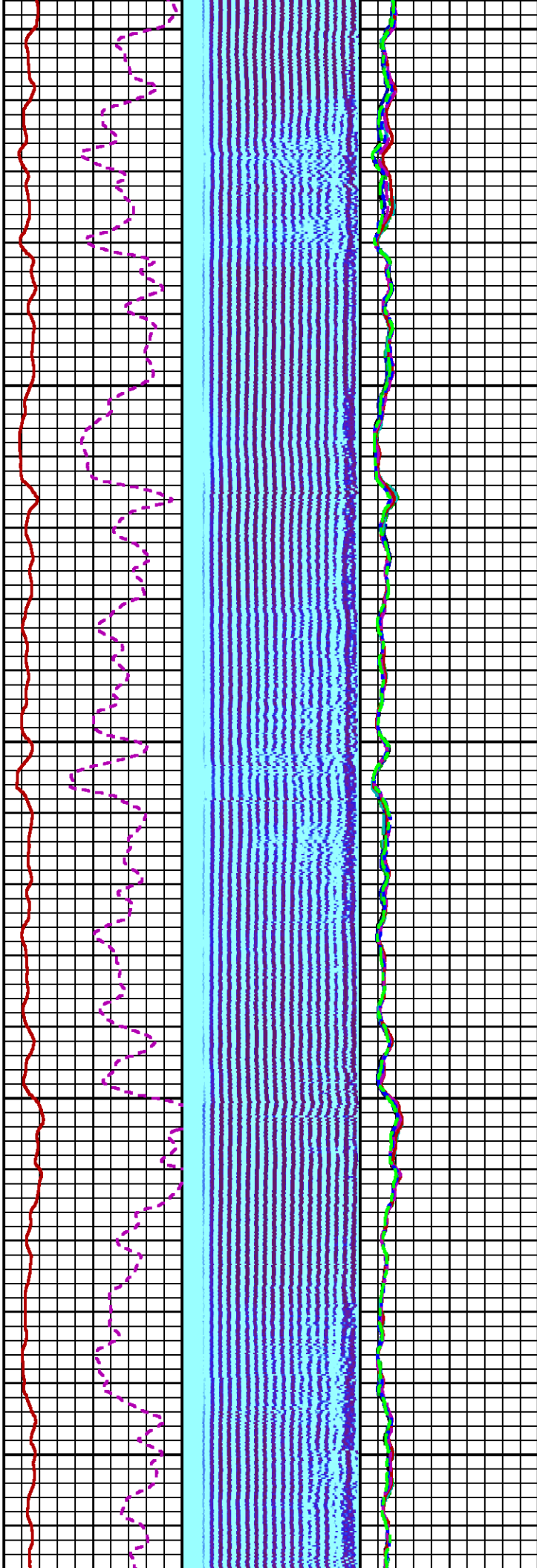
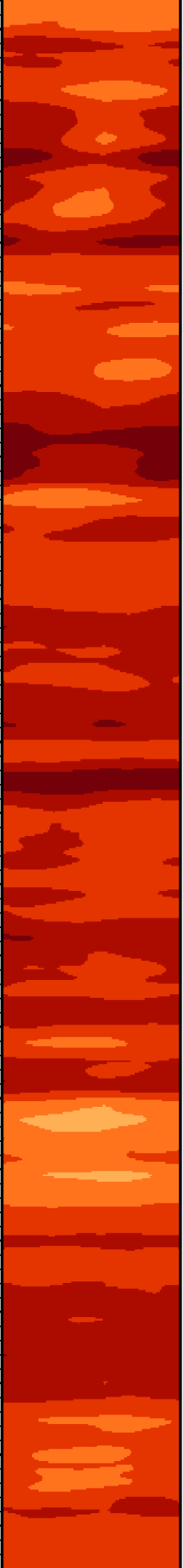




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6300

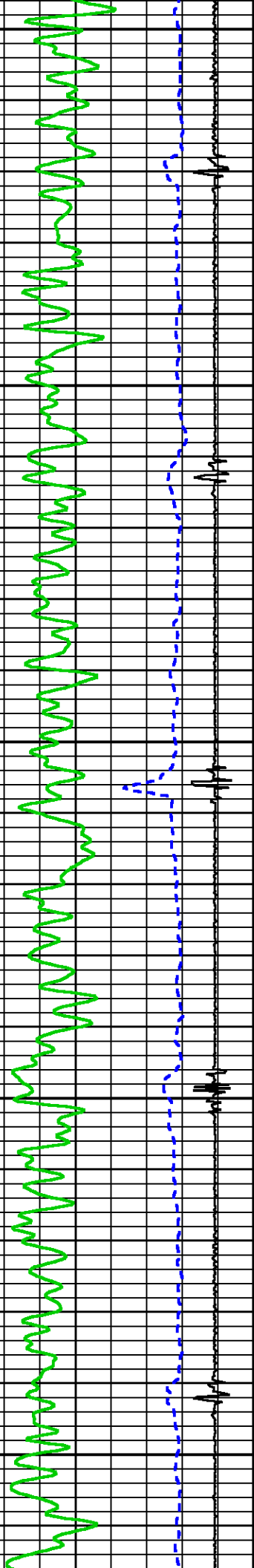


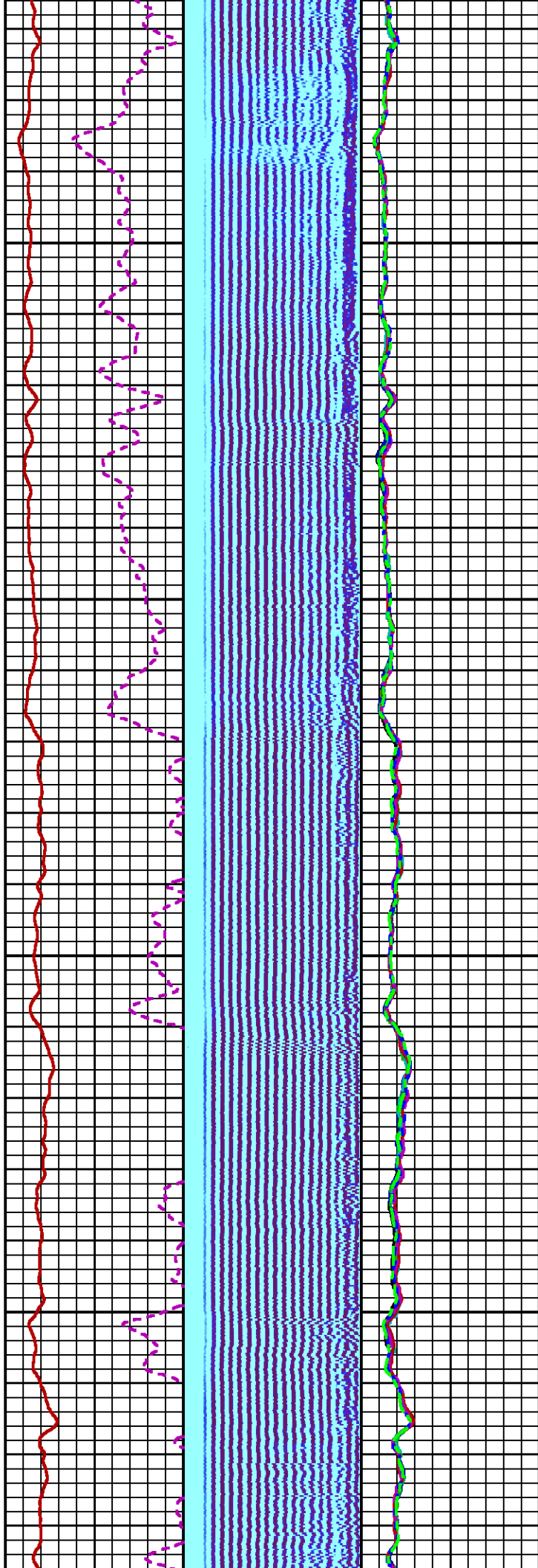


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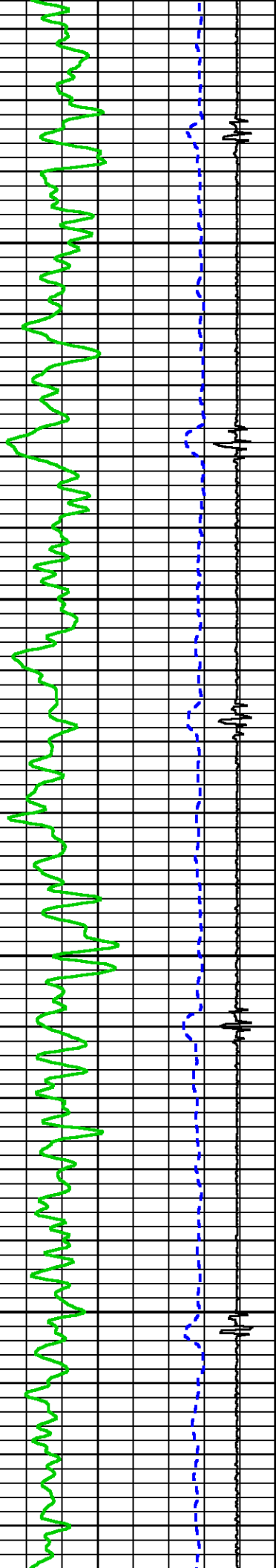
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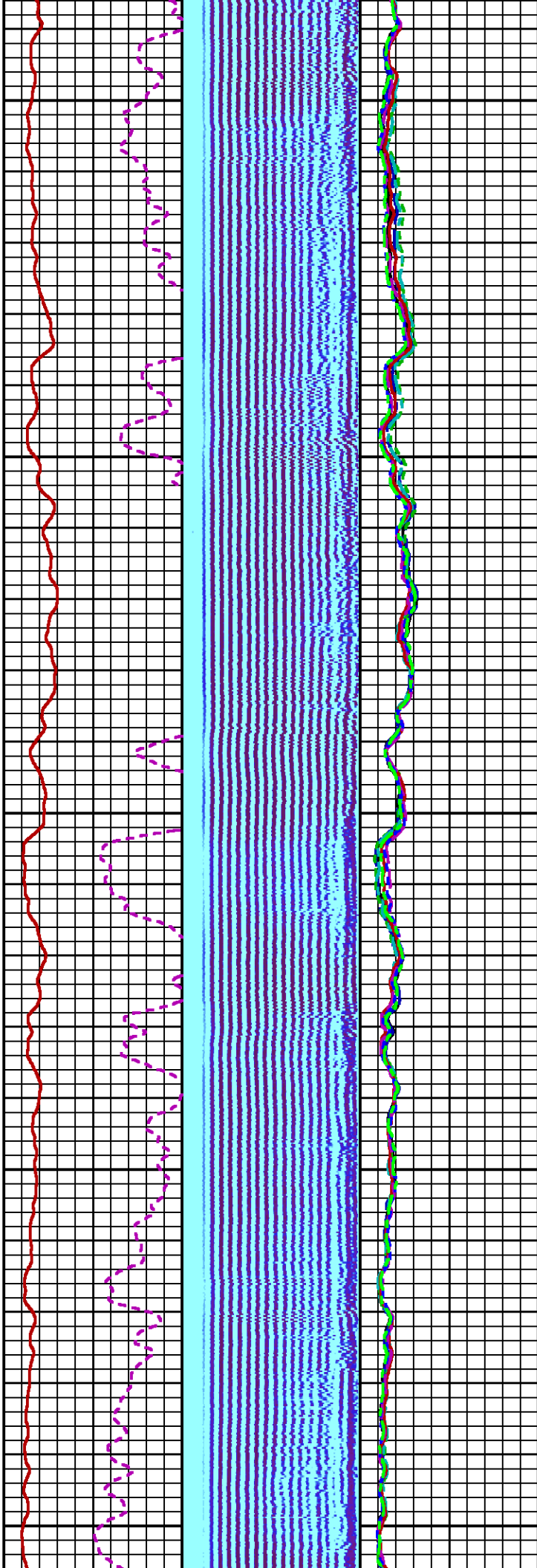
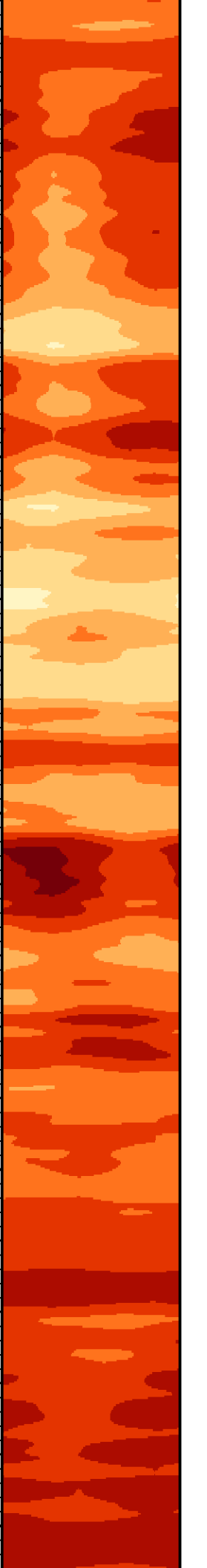




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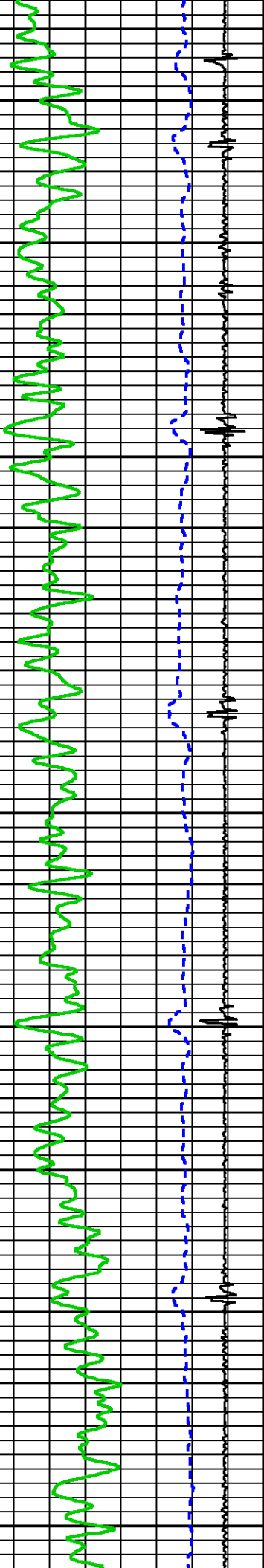
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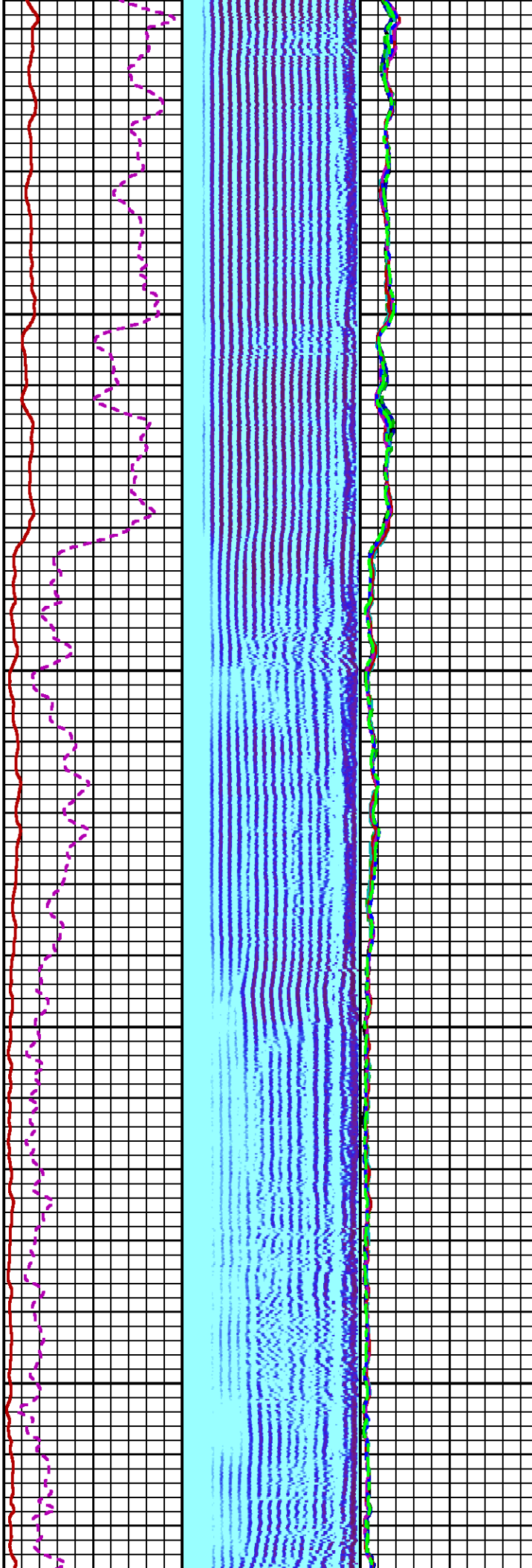
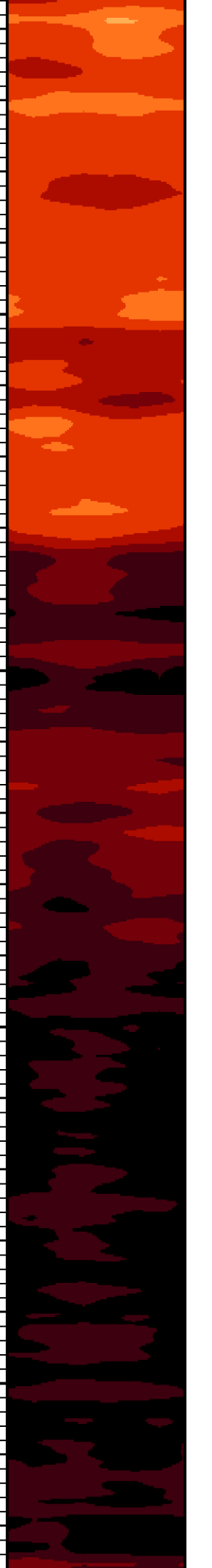




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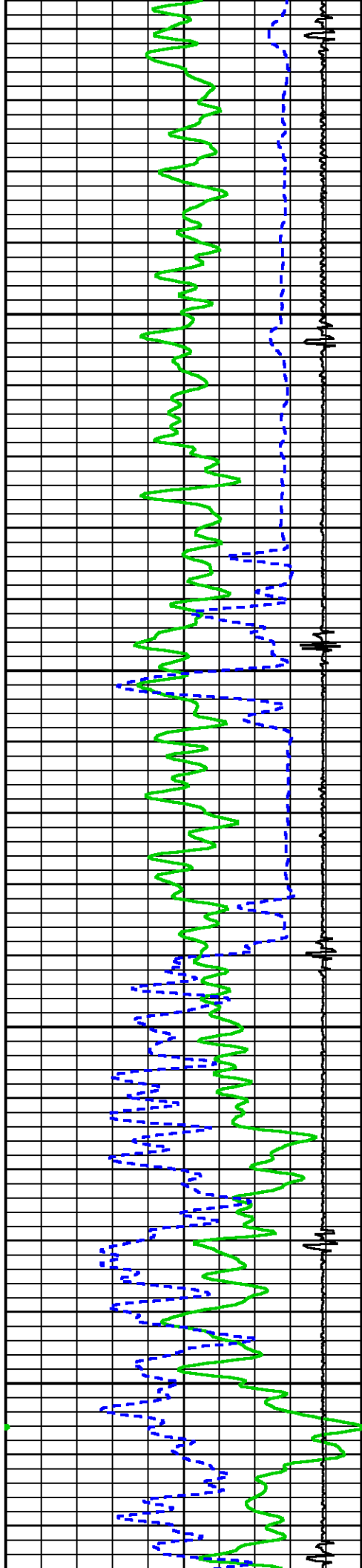
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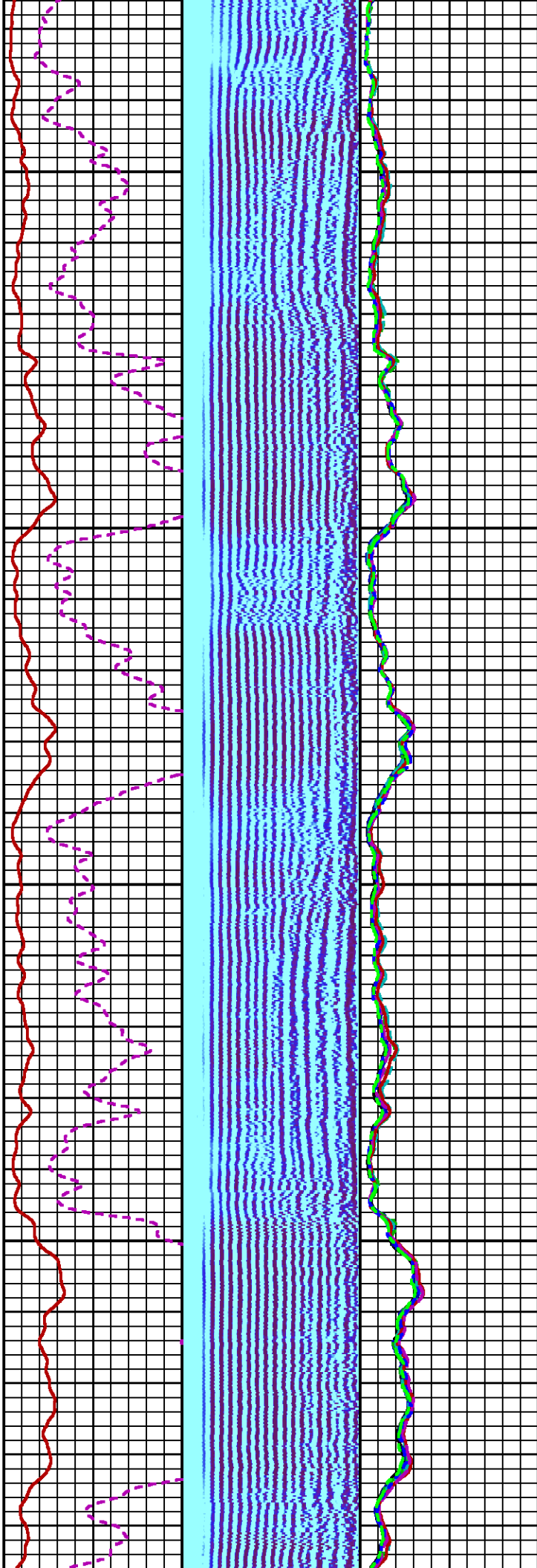




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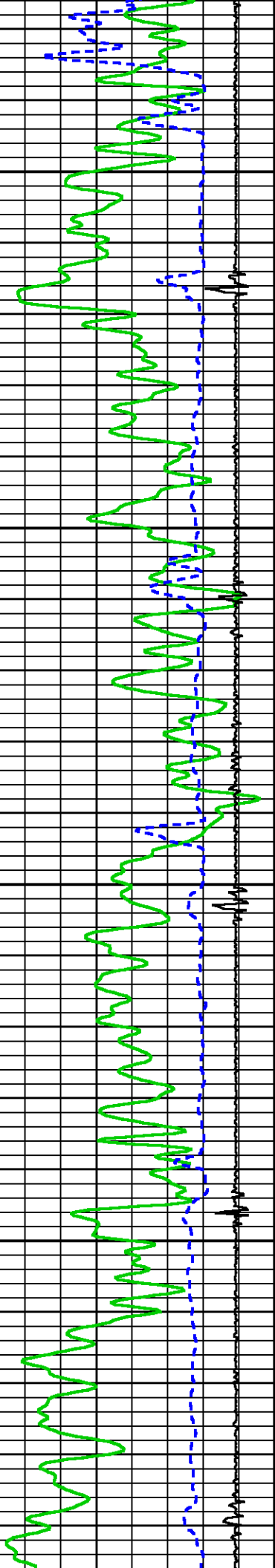
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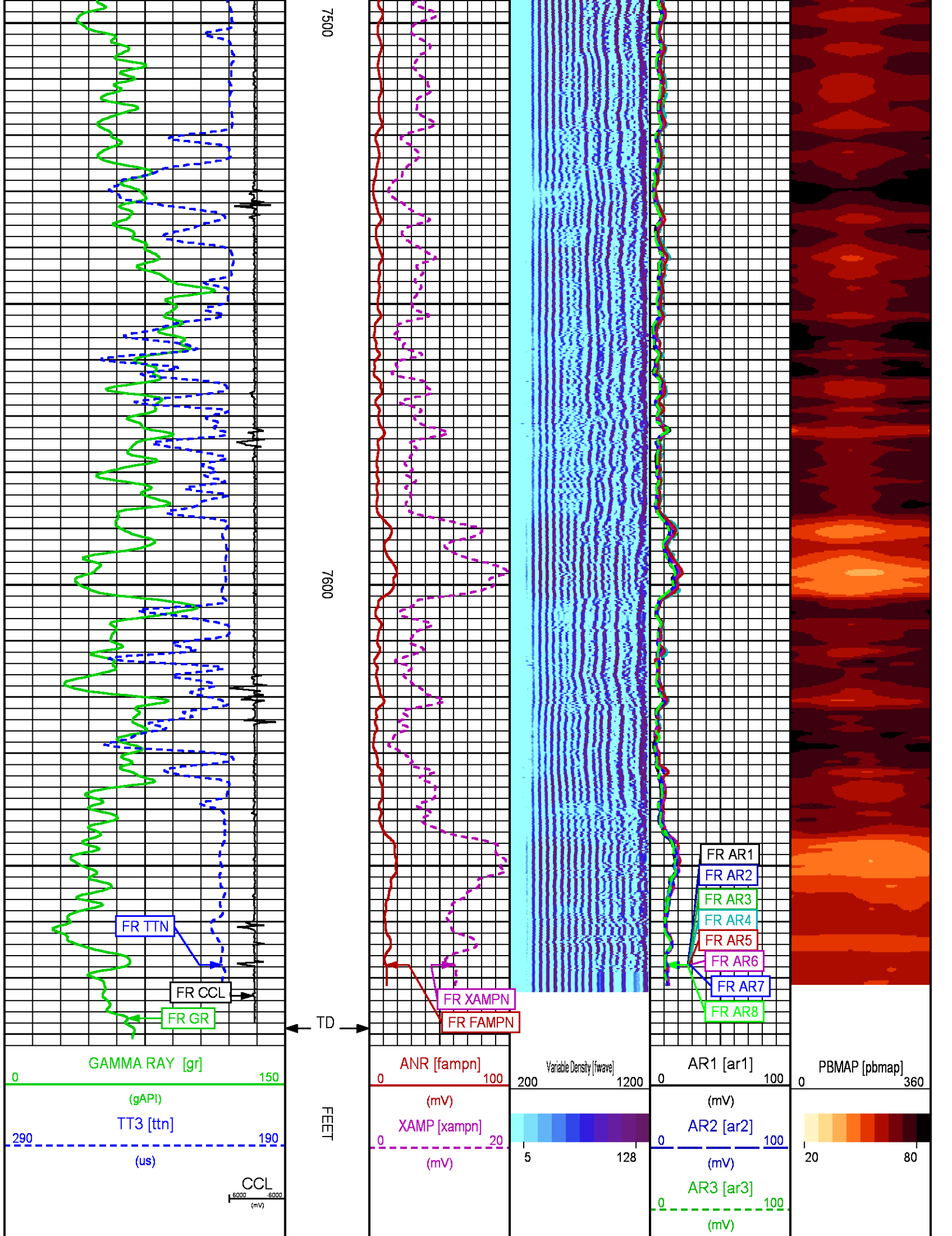


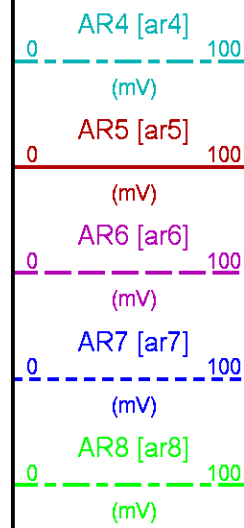


7300

7400







REPEAT LOG

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
Updates: 1 Patches: 6

Plotted: Wed Jan 6 10:30:00 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH101495/n012gR03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 7400.000 ft BOTTOM DEPTH: 7710.000 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

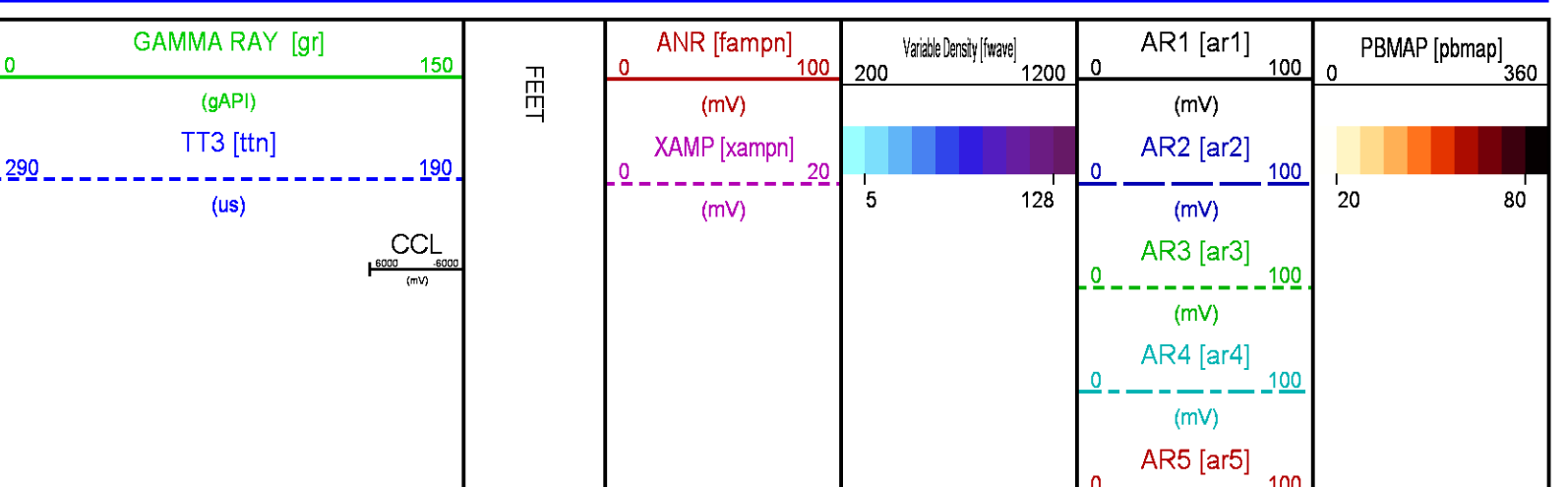
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgp1*)	200	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	200	us	"	"
	AMP WINDOW START (fgp3*)	200	us	"	"
	AMP WINDOW START (fgp4*)	200	us	"	"
	AMP WINDOW START (fgp5*)	200	us	"	"
	AMP WINDOW START (fgp6*)	200	us	"	"
	AMP WINDOW START (fgp7*)	200	us	"	"
	AMP WINDOW START (fgp8*)	200	us	"	"
	AMP WINDOW START (fgpn*)	200	us	"	"
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	189	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	212.952	us	"	"
RAL TOOL DELAY	TOOL DELAY (str1*)	-70	us	"	"
	TOOL DELAY (str2*)	-70	us	"	"

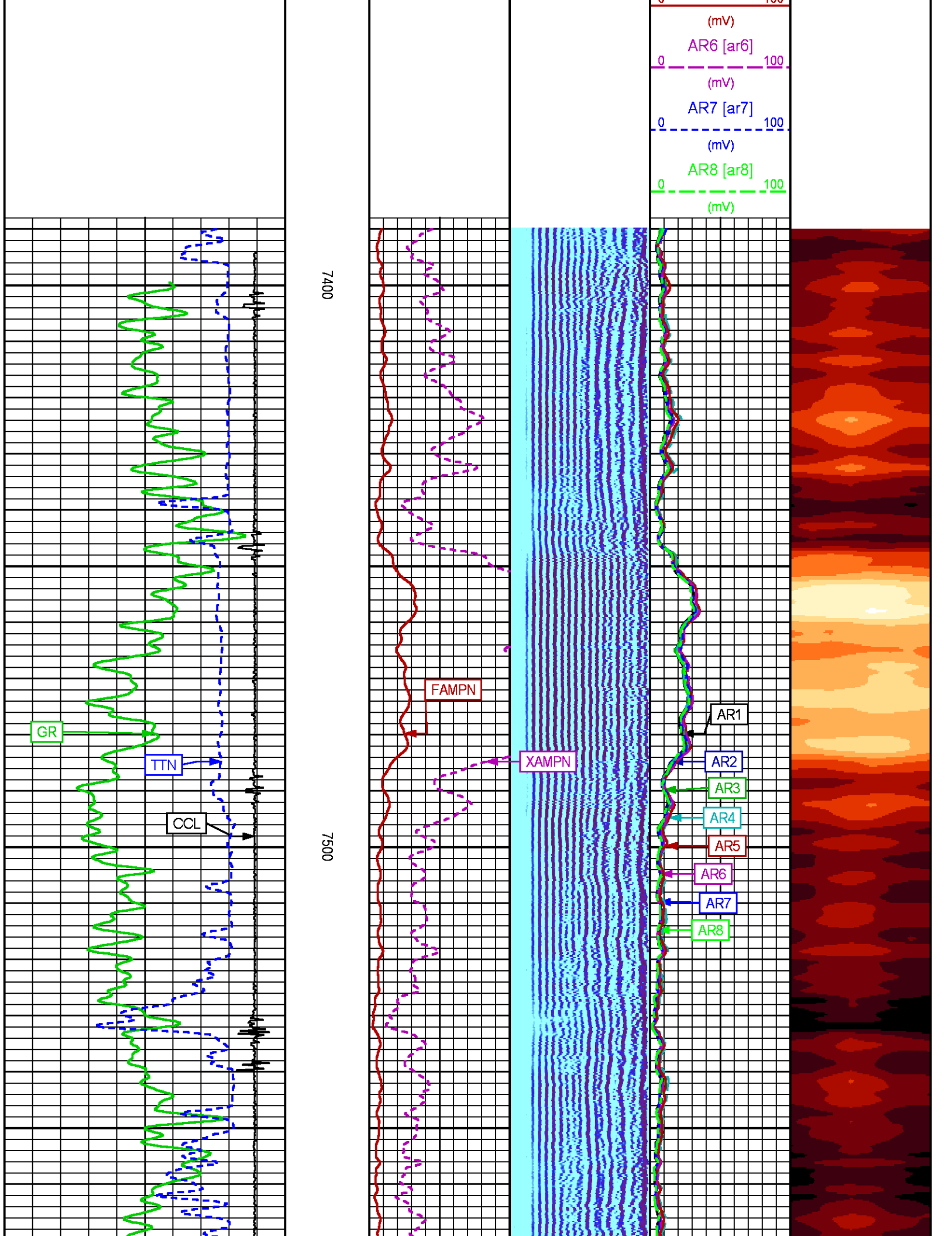
	TOOL DELAY (str3*)	-70	us	"	"
	TOOL DELAY (str4*)	-70	us	"	"
	TOOL DELAY (str5*)	-70	us	"	"
	TOOL DELAY (str6*)	-70	us	"	"
	TOOL DELAY (str7*)	-70	us	"	"
	TOOL DELAY (str8*)	-70	us	"	"
	TOOL DELAY (strn*)	-70	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	159	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

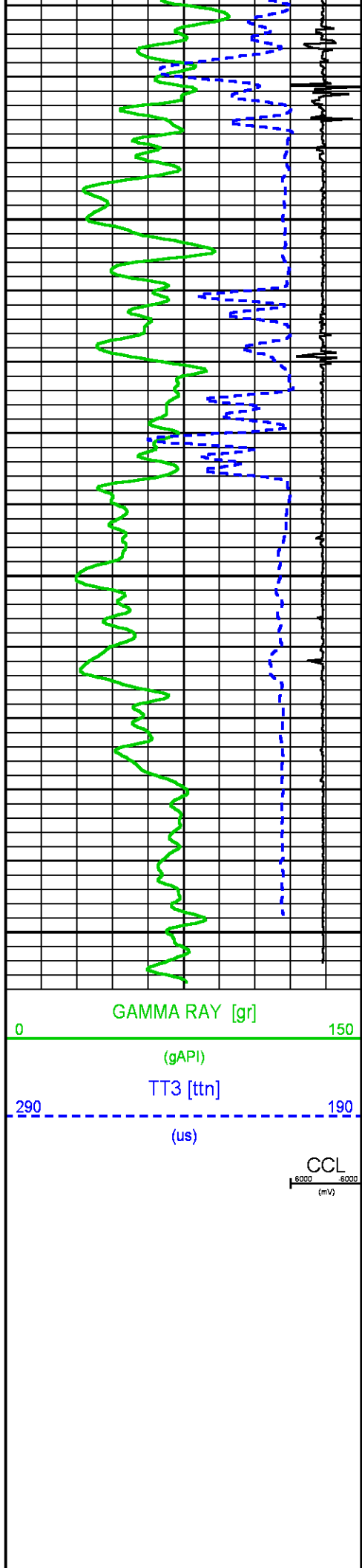
PERCENT BOND CEMENT MAP					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	72	mV	TOP	BOTTOM
	FREE AMP REC 2	72	mV	"	"
	FREE AMP REC 3	72	mV	"	"
	FREE AMP REC 4	72	mV	"	"
	FREE AMP REC 5	72	mV	"	"
	FREE AMP REC 6	72	mV	"	"
	FREE AMP REC 7	72	mV	"	"
	FREE AMP REC 8	72	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	Jan 6 10:15:16 2016	FIXED GATE AMPLITUDE T-R1
F1:AR2	Jan 6 10:15:16 2016	FIXED GATE AMPLITUDE T-R2
F1:AR3	Jan 6 10:15:16 2016	FIXED GATE AMPLITUDE T-R3
F1:AR4	Jan 6 10:15:16 2016	FIXED GATE AMPLITUDE T-R4
F1:AR5	Jan 6 10:15:16 2016	FIXED GATE AMPLITUDE T-R5
F1:AR6	Jan 6 10:15:16 2016	FIXED GATE AMPLITUDE T-R6
F1:AR7	Jan 6 10:15:16 2016	FIXED GATE AMPLITUDE T-R7
F1:AR8	Jan 6 10:15:16 2016	FIXED GATE AMPLITUDE T-R8
F1:CCL	Jan 6 10:15:16 2016	CASING COLLAR LOCATOR
F1:FAMPN	Jan 6 10:15:16 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jan 6 10:15:16 2016	FAR WAVE FORM
F1:GR	Jan 6 10:15:16 2016	GAMMA RAY
F1:PBMAP	Jan 6 10:15:16 2016	PERCENT BOND CEMENT MAP
F1:TTN	Jan 6 10:15:16 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jan 6 10:15:16 2016	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		



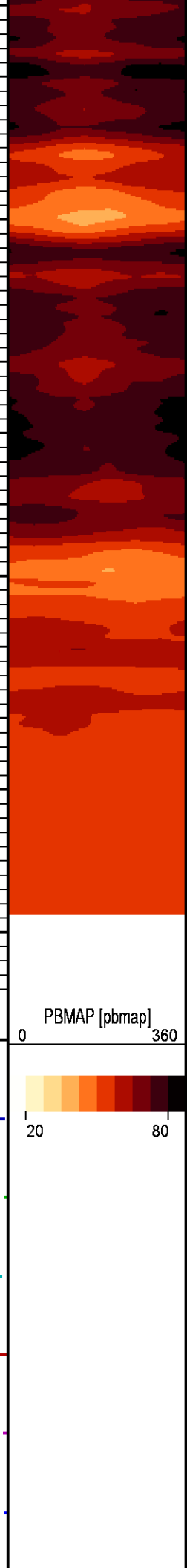
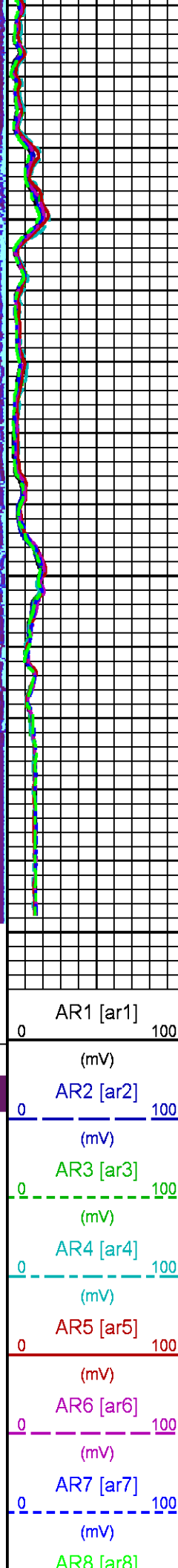
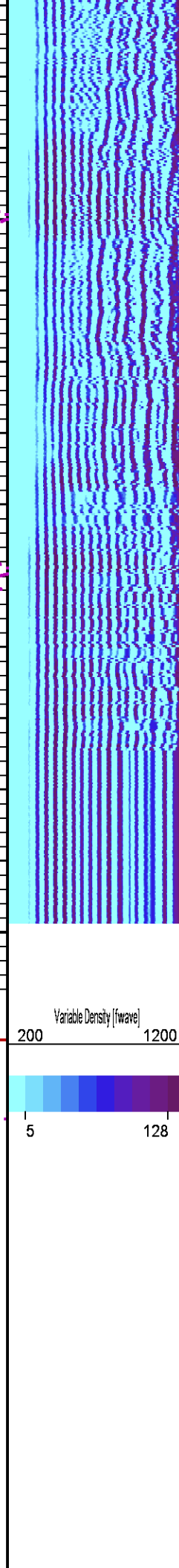
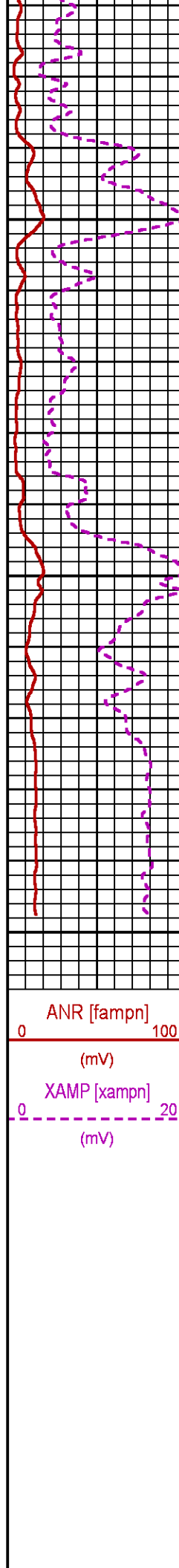




7600

7700

FEET



0 --- 100
(mV)

CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH101495/n012g.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10124106

DATE/TIME PERFORMED: Tue Jan 5 17:12:10 2016

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)	-0.12	-0.40	0.03	-0.03	-0.20	0.02	-0.00	-0.09	-0.12	-0.53	-0.19
AMP FLUID (mV)	97	97	96	97	97	96	97	97	98	132	95
TT (us)	237	238	237	237	237	236	236	236	238	345	238
M FACTOR	1.03	1.03	1.04	1.03	1.03	1.04	1.03	1.03	1.02	1.13	1.05

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10124106

DATE/TIME PERFORMED: Tue Jan 5 17:13:08 2016

DAYS SINCE CAL: 0

UNIT #: 3880TA HL6670

CABLE #: HL6670 SMALL1

	NEAR (mV)	R1 (mV)	R2 (mV)	R3 (mV)	R4 (mV)	R5 (mV)	R6 (mV)	R7 (mV)	R8 (mV)	FAR (mV)	CAL (mV)
ZERO	-0.20	-0.43	-0.34	-0.16	-0.31	-0.35	-0.28	-0.12	-0.17	-0.55	-0.07
AMP AIR	0.41	0.55	0.34	0.24	0.50	0.64	0.38	0.21	0.32	0.97	99.88

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
1.05	0.00	1.00

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 11871510

DATE/TIME PERFORMED: Wed Nov 11 09:16:13 2015

UNIT #: 3880TA HL6670

CALB JIG #: 4702NK WA-612

	BACKGROUND (cts)	CALBRTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	63.16	250.69	187.5	0.800	50.52	200.52	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1355XA 11871510

DATE/TIME PERFORMED: Wed Nov 11 09:17:28 2015

UNIT #: 3880TA HL6670

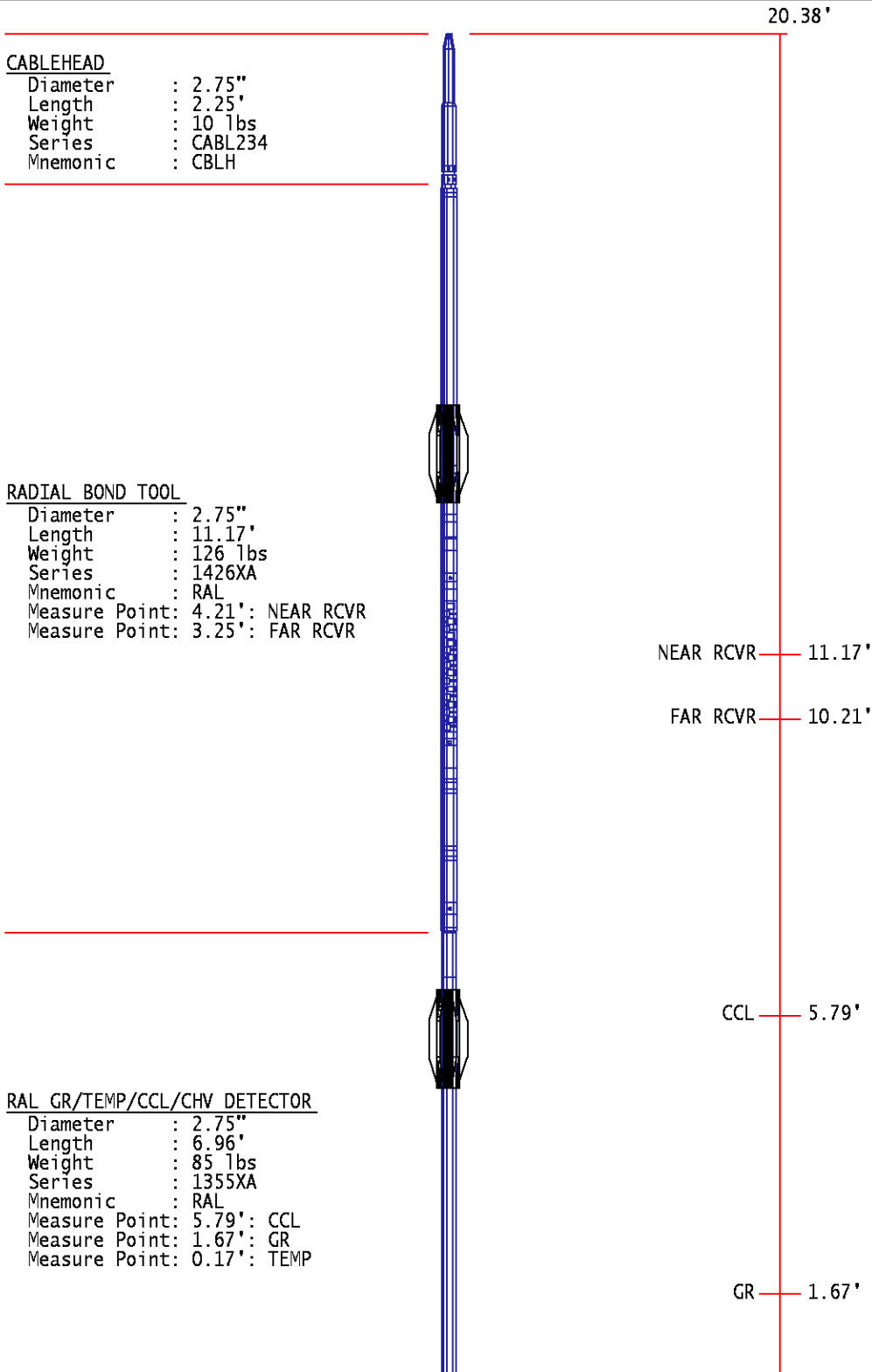
VERI JIG #: 4702NK WA-612

BACKGROUND	CALBRTR ON	MULT	BACKGROUND	CALBRTR ON	DIFF.
------------	------------	------	------------	------------	-------

	(cts)	(cts)		(gAPI)	(gAPI)	(gAPI)
GR	60.18	250.36	0.800	48.13	200.25	152.12
						140.00 160.00


INSTRUMENT CONFIGURATION

Source File: /dat1a/CH101495/ral-tdg



TEMP 8.17°

TOTAL LENGTH: 20.38'
TOTAL WEIGHT: 225 lbs
MAX DIAMETER: 0'4.25"

	COMPANY	EXTRACTION OIL & GAS		FILE NO:	CH101499
	WELL	JANSSEN 2		API NO:	05123423590000
	FIELD	WATTENBERG			
	COUNTY	WELD	STATE	COLORADO	
	LOCATION:			ELEVATIONS:	SEC 8 T6N R65W PATTERSON 346
	2147' FNL & 2397 FWL SE/NW			KB 4803.5 FT DF GL 4779 FT	
	SEC 8 TWP 6N RGE 65W			DATE	05-JAN-2016