



FILE NO: CH100606	COMPANY WELL FIELD COUNTY	LARAMIE ENERGY PICEANCE FEDERAL 28-21E VEGA MESA STATE CO
API NO: 05077102500000		

Ver. 4.05 SEC 28 T9S R93W PAD 28-10 PATTERSON 306	LOCATION: SHL: 1981' FSL 2484' FWL BHL: 113' FSL 881' FEL SEC 28 TWP 9S RGE 93W	OTHER SERVICES RPM
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PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	GL ELEVATION 7679 FT KB 22 FT ABOVE P.D. KB	ELEVATIONS: KB 7701 FT DF GL 7679 FT
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DATE	29-Oct-2015
RUN	1
SERVICE ORDER	US100606J
DEPTH DRILLER	8481 FT
DEPTH LOGGER	8442 FT
BOTTOM LOGGED INTERVAL	8432 FT
TOP LOGGED INTERVAL	0 FT
TIME STARTED	8:45
TIME FINISHED	16:00
OPERATOR RIG TIME	7:15
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	40 FT
LOGGED CEMENT TOP	NA
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	100 FMN
MAX. RECORDED TEMP.	246 DEGF
REFERENCE LOG	BAKER HUGHES OPEN HOLE
REFERENCE LOG DATE	14-OCT-2015
EQUIP. NO.	6685
LOCATION	W. QUIGLEY GRAND JCT
RECORDED BY	MR. ROGER FOSTER
WITNESSED BY	

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
11 IN	0 FT	1623 FT
7.875 IN	1623 FT	8610 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
8.625 IN	24 LB/F	J-55	0 FT	1623 FT
4.5 IN	11.6 LB/F	I-80	0 FT	8610 FT

REMARKS

RUN 1 TRIP 1: ALL DATA ON THIS LOG IS DEPTH SHIFTED AND CORRELATED TO THE GAMMA-RAY CURVE ON BAKER HUGHES OPEN HOLE LOG DATED 14-OCT-2015

THE DEPTH MATCHING PROCESS CREATES POTENTIAL FOR COLLAR LENGTHS TO VARY FROM THOSE RECORDED ON OTHER CASED HOLE WIRELINE UNITS WITHOUT A GAMMA RAY REFERENCE

BHT = 246 degF

SJ = 6790' - 6812'
SJ = 7648' - 7670'

THANKS FOR USING BAKER HUGHES WIRELINE
RIG: PATTERSON 306
LOGGED WITH ZERO PSI AT WELLHEAD

PULLED EXCESSIVE WEIGHT OFF BOTTOM, COULD HAVE JUST BEEN DUE TO DEVIATION
REPEAT LOGGED FAR UPHOLE DUE TO STICKY DOWNHOLE CONDITIONS

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	RAL	1426XA	10154957	CENTRALIZED
1	1	GR/CCL	1355XA	12670181	CENTRALIZED

MAIN PRESENTATION 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
Updates: 1 Patches: 8

Plotted: Fri Oct 30 11:12:53 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH100606/n012gR01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 12.000 ft BOTTOM DEPTH: 8454.750 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*)	182	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*)	-72	us	"	"
	TOOL DELAY (str2*)	-72	us	"	"
	TOOL DELAY (str3*)	-72	us	"	"
	TOOL DELAY (str4*)	-72	us	"	"
	TOOL DELAY (str5*)	-72	us	"	"
	TOOL DELAY (str6*)	-72	us	"	"
	TOOL DELAY (str7*)	-72	us	"	"
	TOOL DELAY (str8*)	-72	us	"	"
	TOOL DELAY (strn*)	-72	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

PERCENT BOND CEMENT MAP

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	"	"

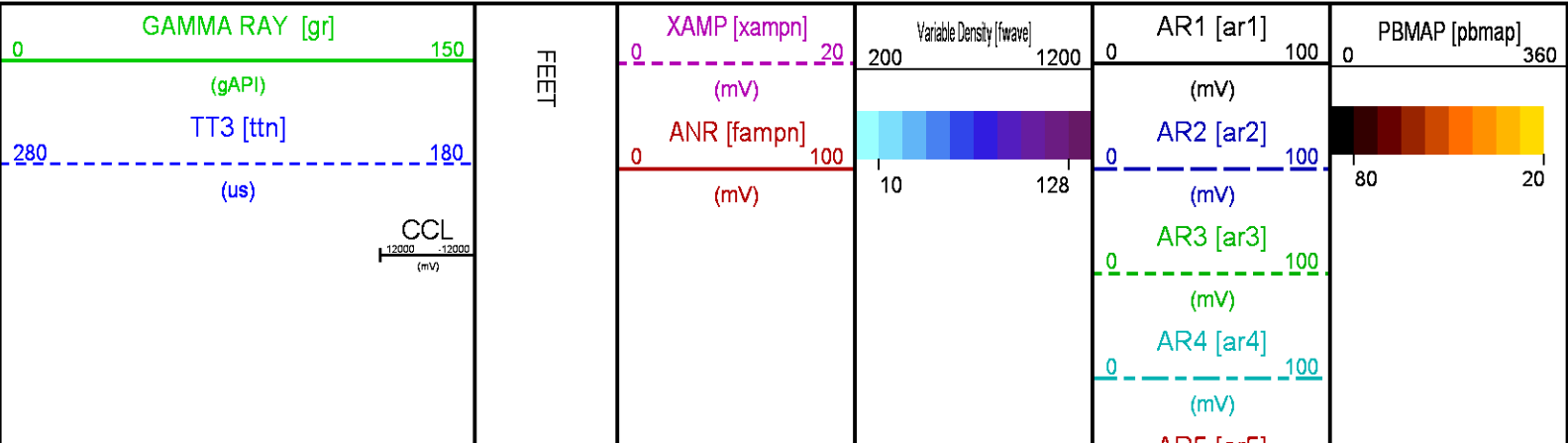
CURVE DESCRIPTION REPORT

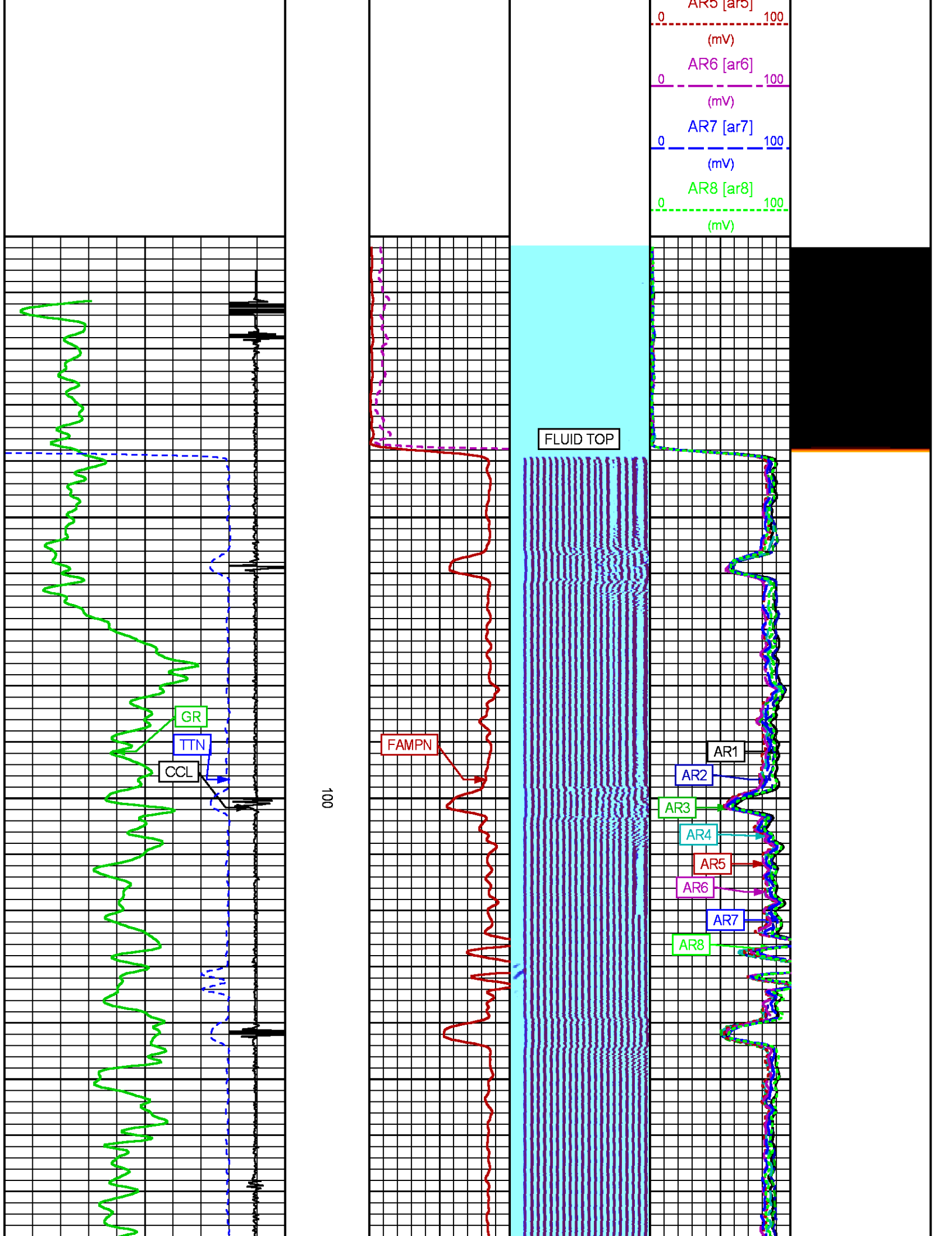
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Oct 30 10:54:02 2015	FIXED GATE AMPLITUDE T-R1
F1:AR2	Oct 30 10:54:02 2015	FIXED GATE AMPLITUDE T-R2
F1:AR3	Oct 30 10:54:02 2015	FIXED GATE AMPLITUDE T-R3
F1:AR4	Oct 30 10:54:02 2015	FIXED GATE AMPLITUDE T-R4
F1:AR5	Oct 30 10:54:02 2015	FIXED GATE AMPLITUDE T-R5
F1:AR6	Oct 30 10:54:02 2015	FIXED GATE AMPLITUDE T-R6
F1:AR7	Oct 30 10:54:02 2015	FIXED GATE AMPLITUDE T-R7
F1:AR8	Oct 30 10:54:02 2015	FIXED GATE AMPLITUDE T-R8
F1:CCL	Oct 30 10:54:03 2015	CASING COLLAR LOCATOR
F1:FAMPN	Oct 30 10:54:28 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Oct 30 10:54:45 2015	FAR WAVE FORM
F1:GR	Oct 30 10:54:45 2015	GAMMA RAY
F1:PBMAP	Oct 30 10:55:08 2015	PERCENT BOND CEMENT MAP
F1:TTN	Oct 30 10:55:11 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Oct 30 10:55:11 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

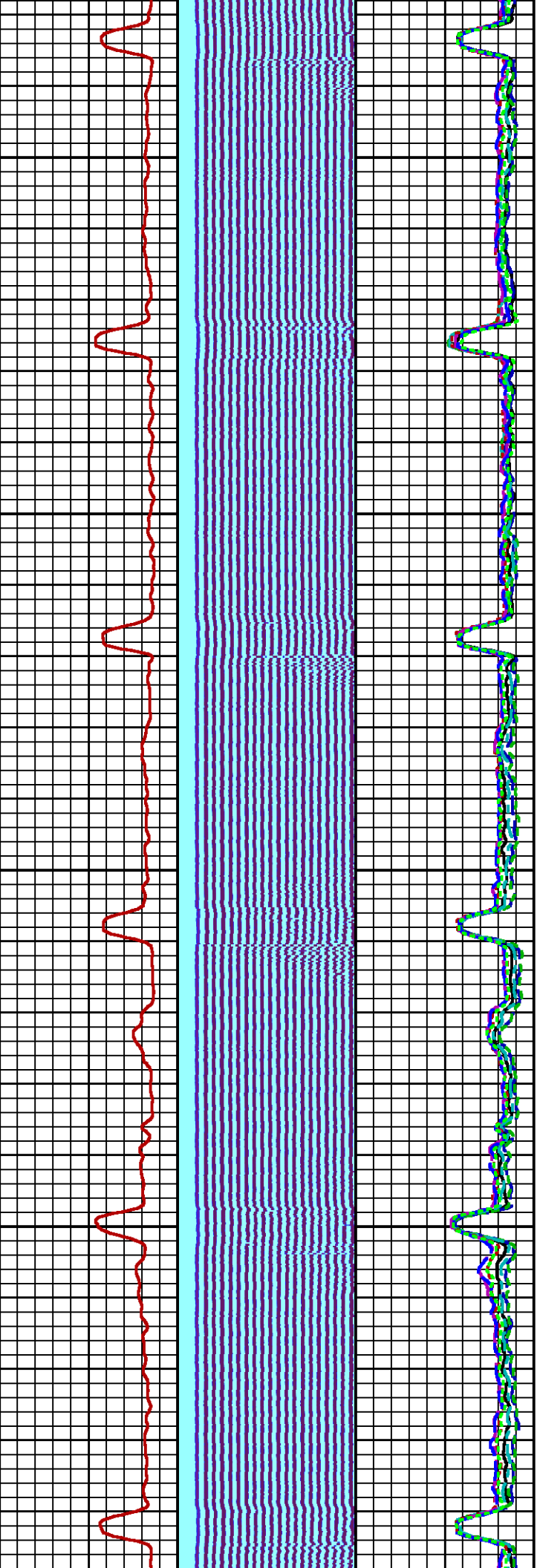
CURVE MEASURE POINT OFFSET

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	: cas6685:/dat1a/CH100606/LARAMIE_CBL.fvpdf [5"/100' Scale]
Plot Interval	: 1.75 - 8461.5 Feet
Data File 1	: F1 : cas6685:/dat1a/CH100606/n012gR01_CBLMAIN21E.xtf
Created On	: Oct 30 10:54:02 2015
Company	: LARAMIE ENERGY
Well	: PICEANCE FEDERAL 28-21E
Field	: VEGA
File Interval	: 0.75 - 8462.75 Feet
OCT	: n012g

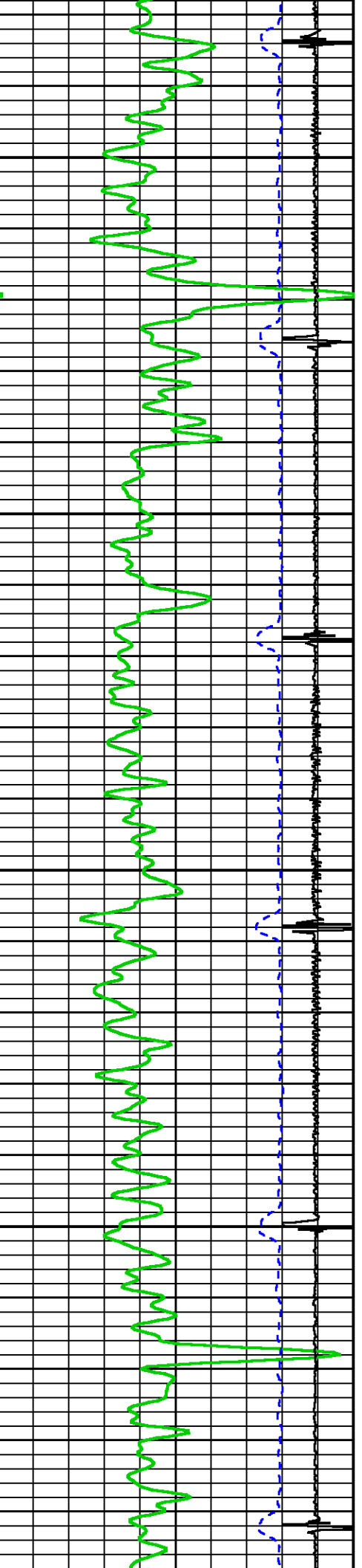


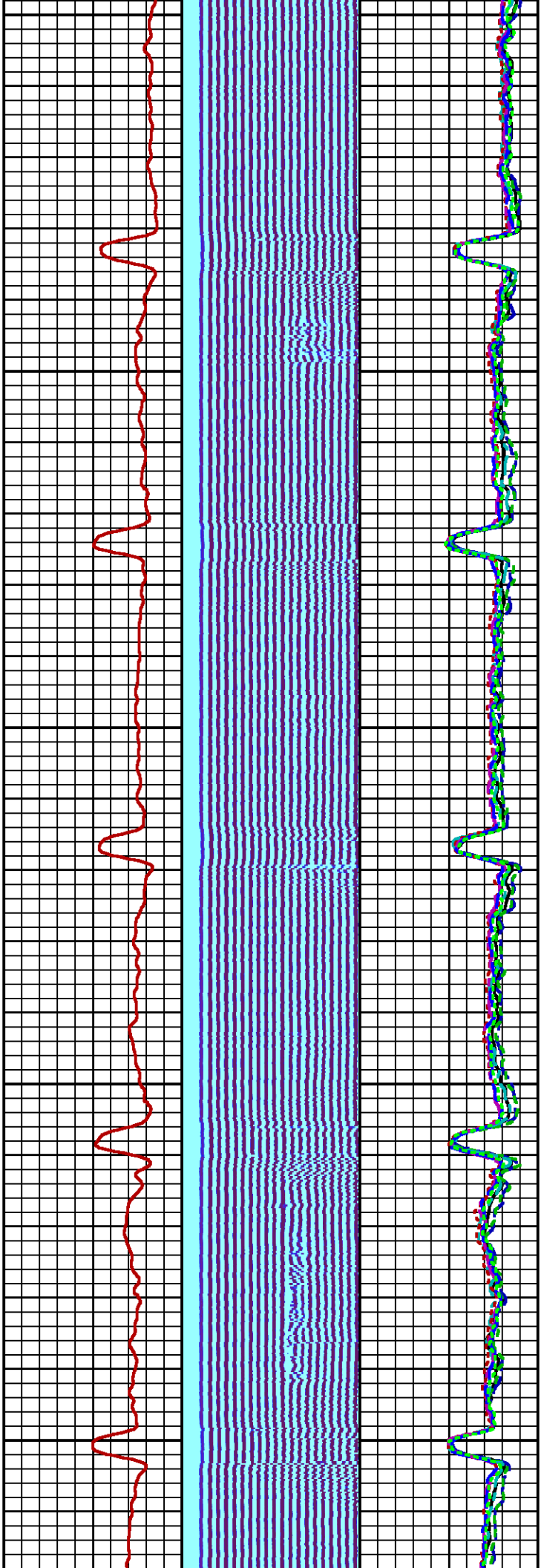




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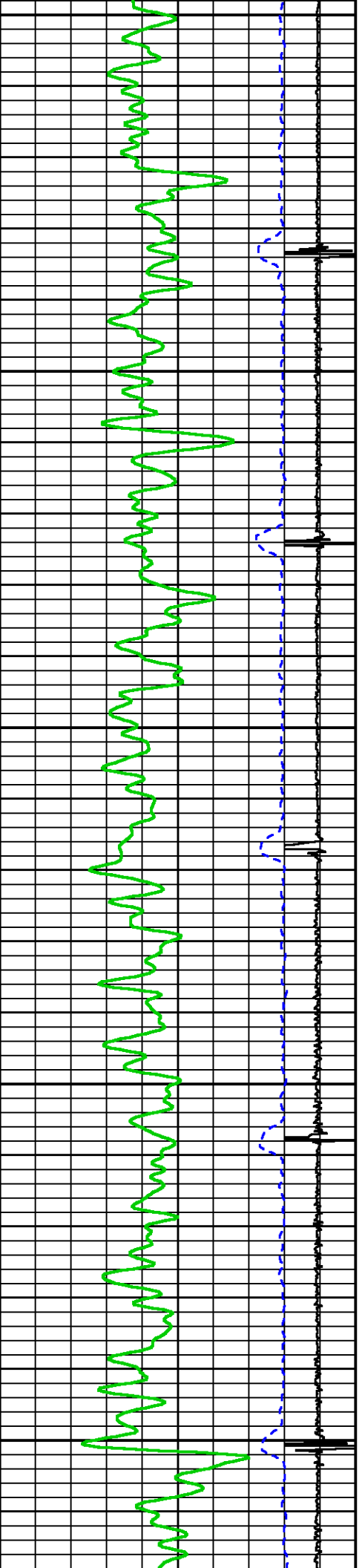


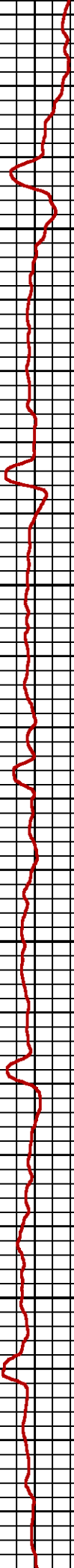
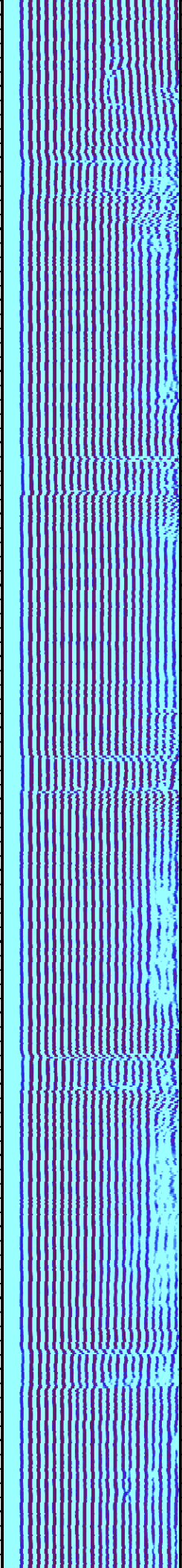
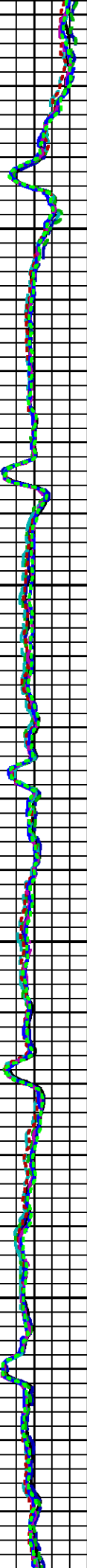
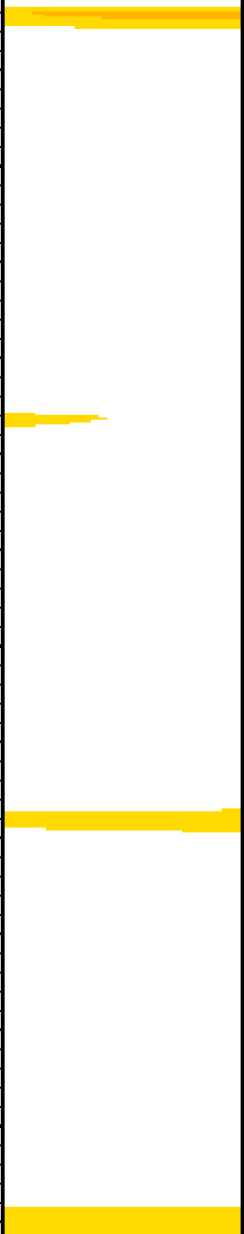


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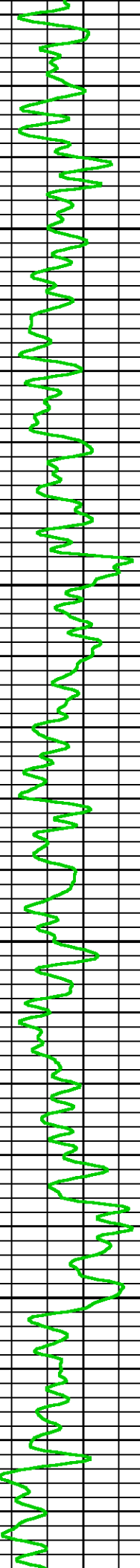
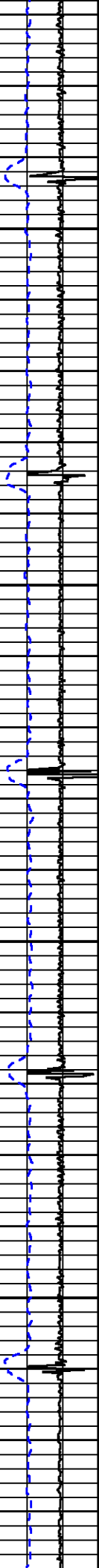
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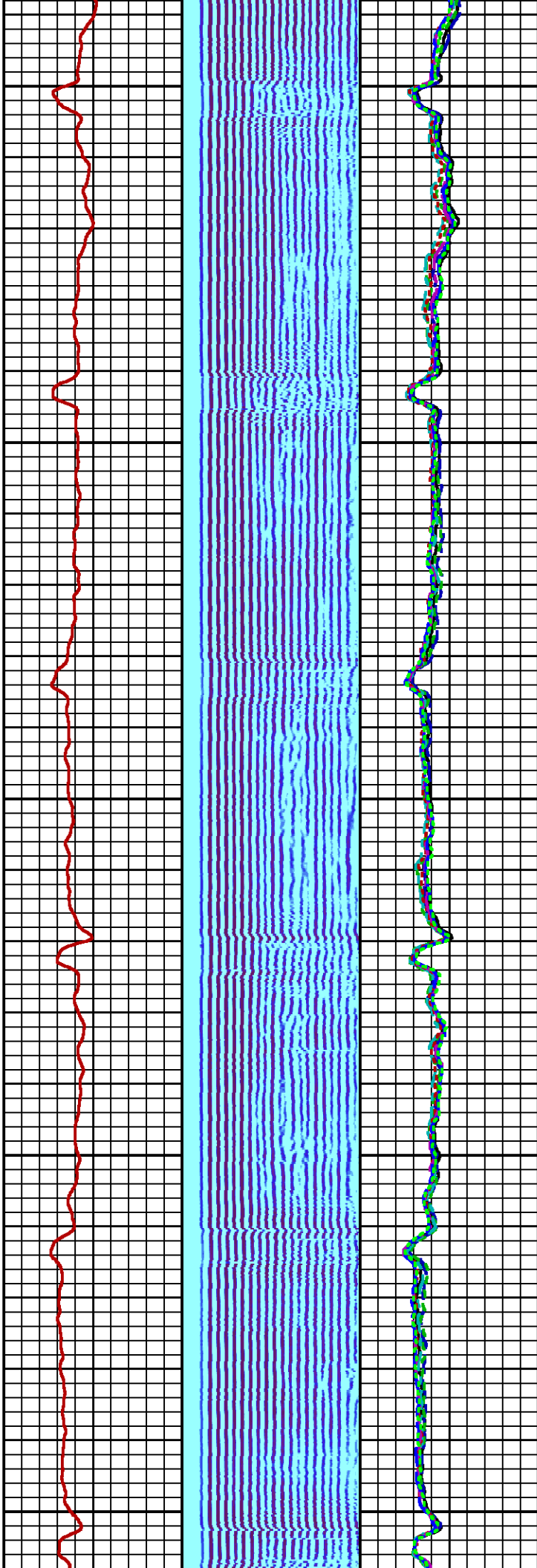
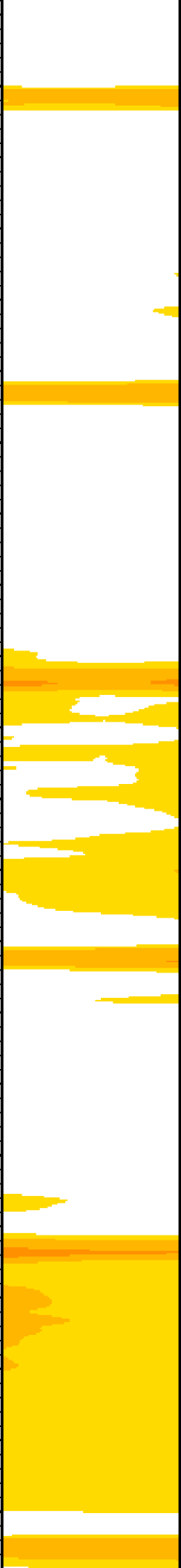




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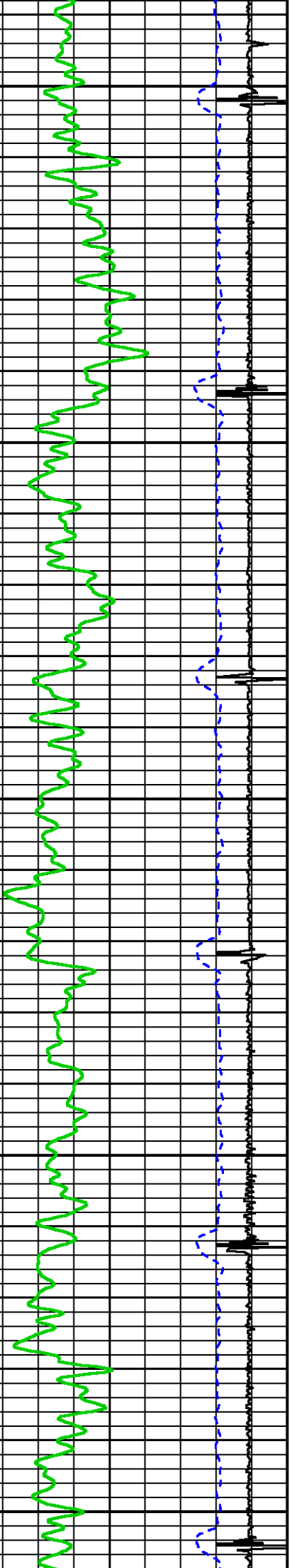
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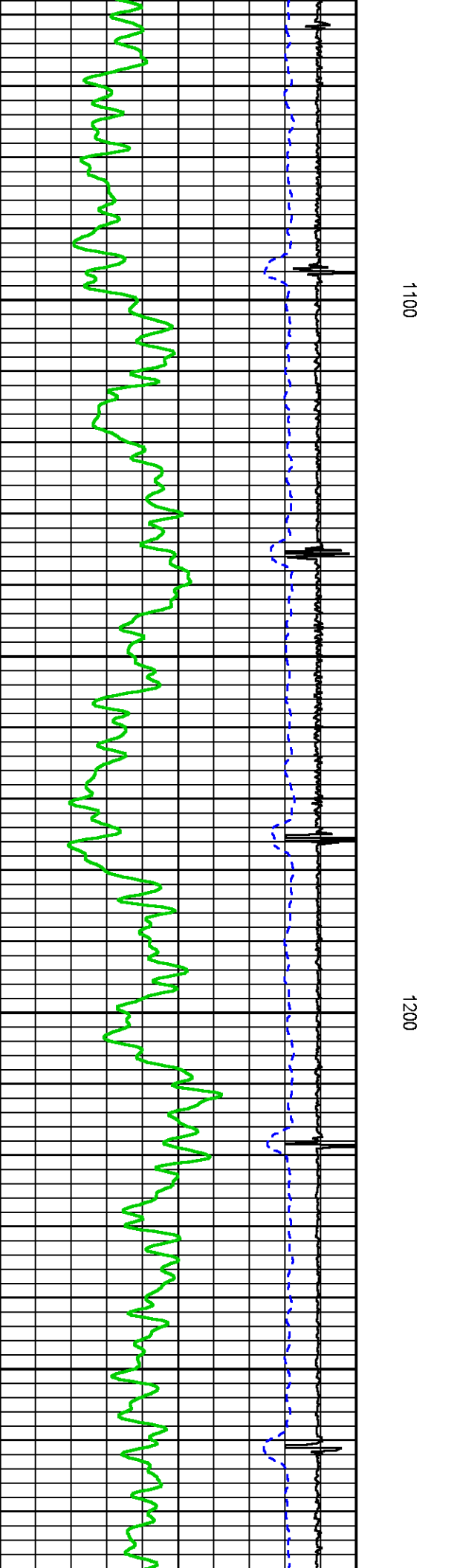
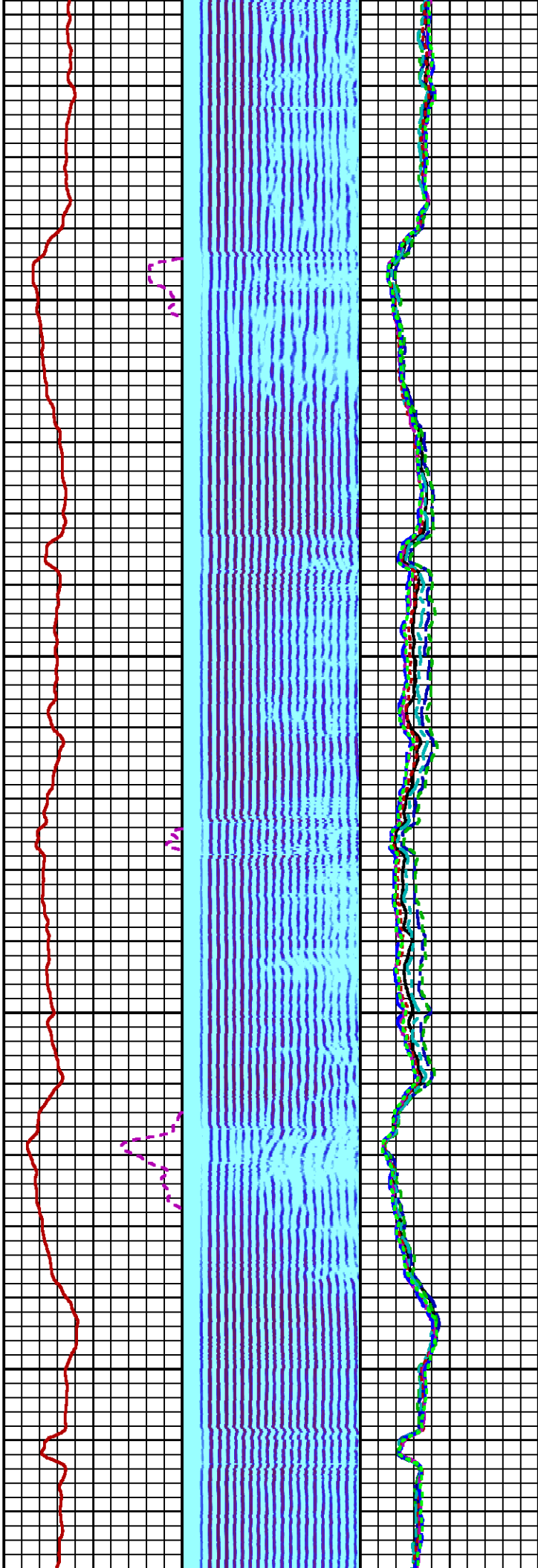
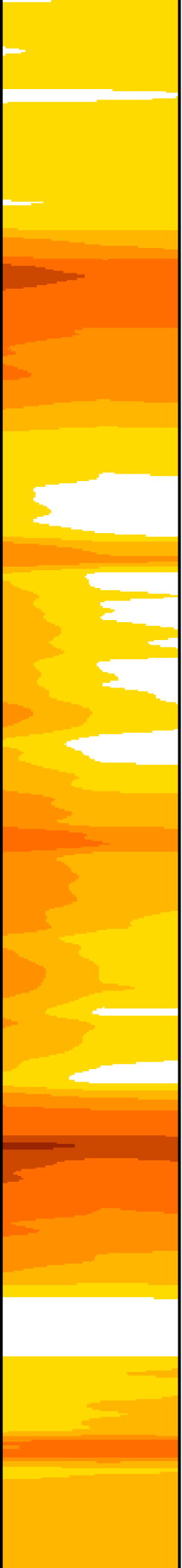


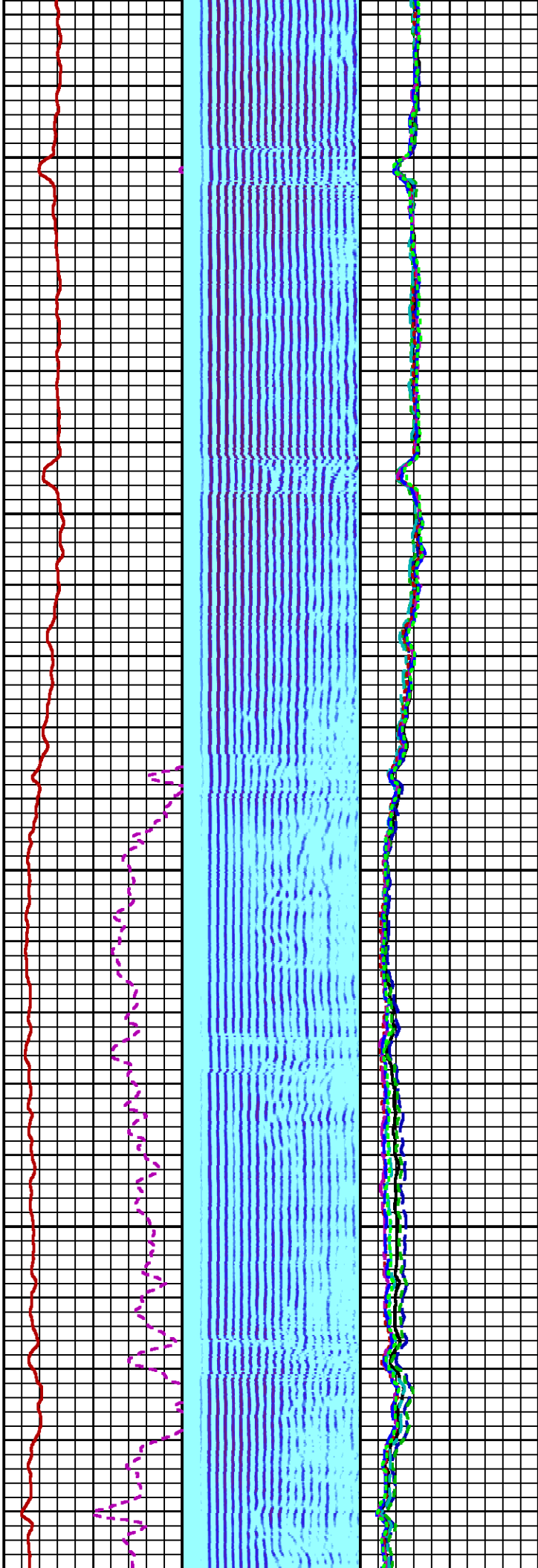


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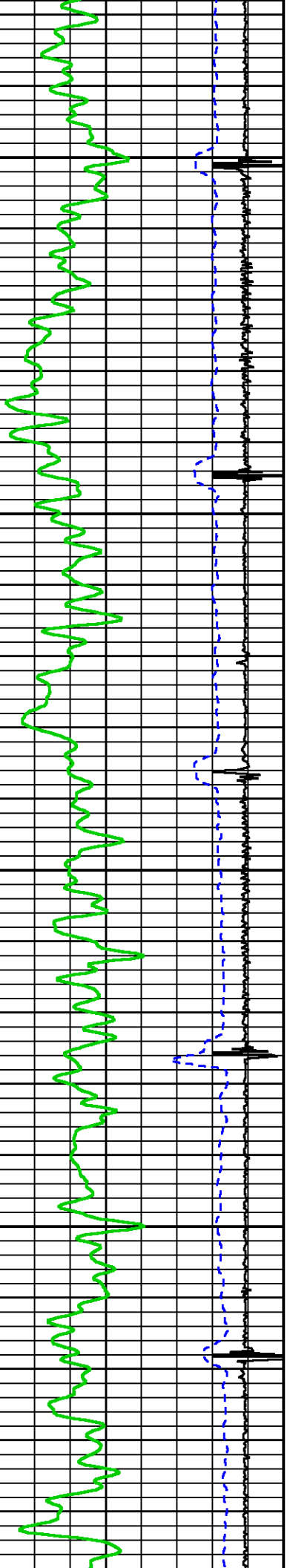


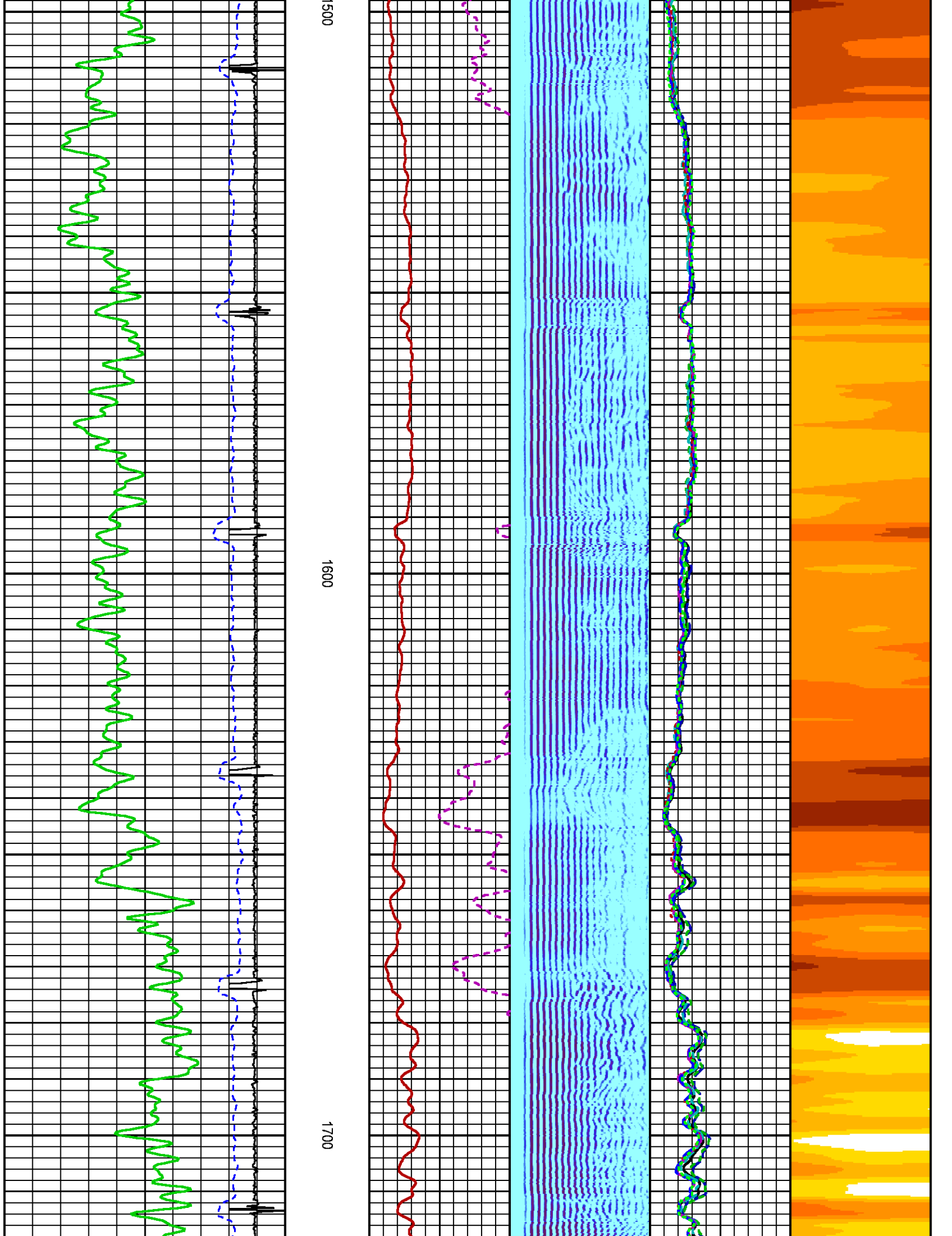


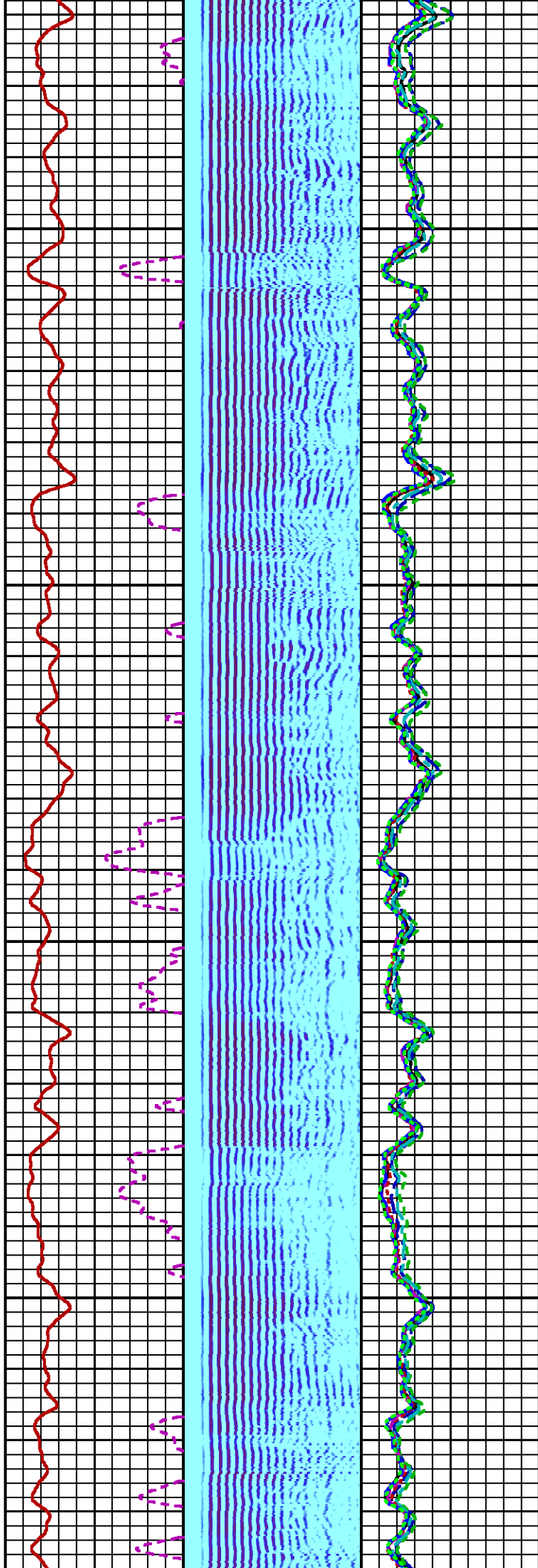
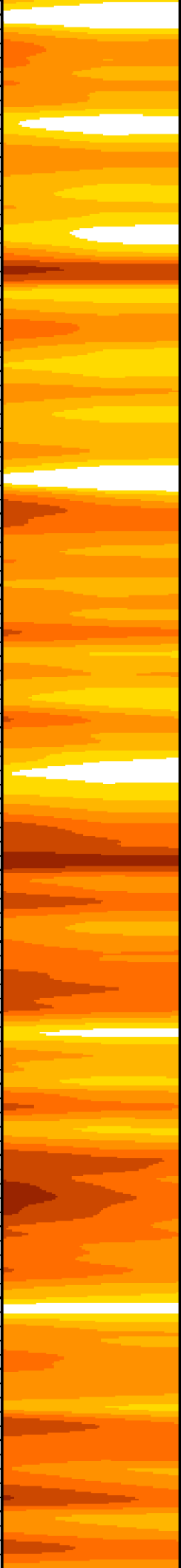


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1400

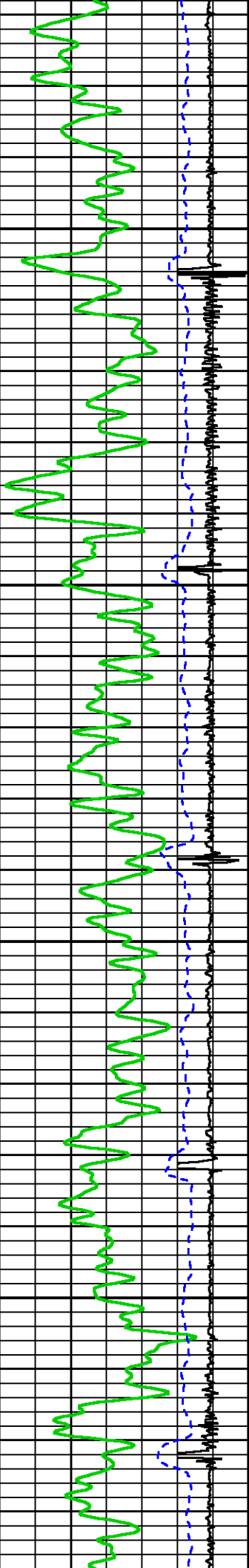


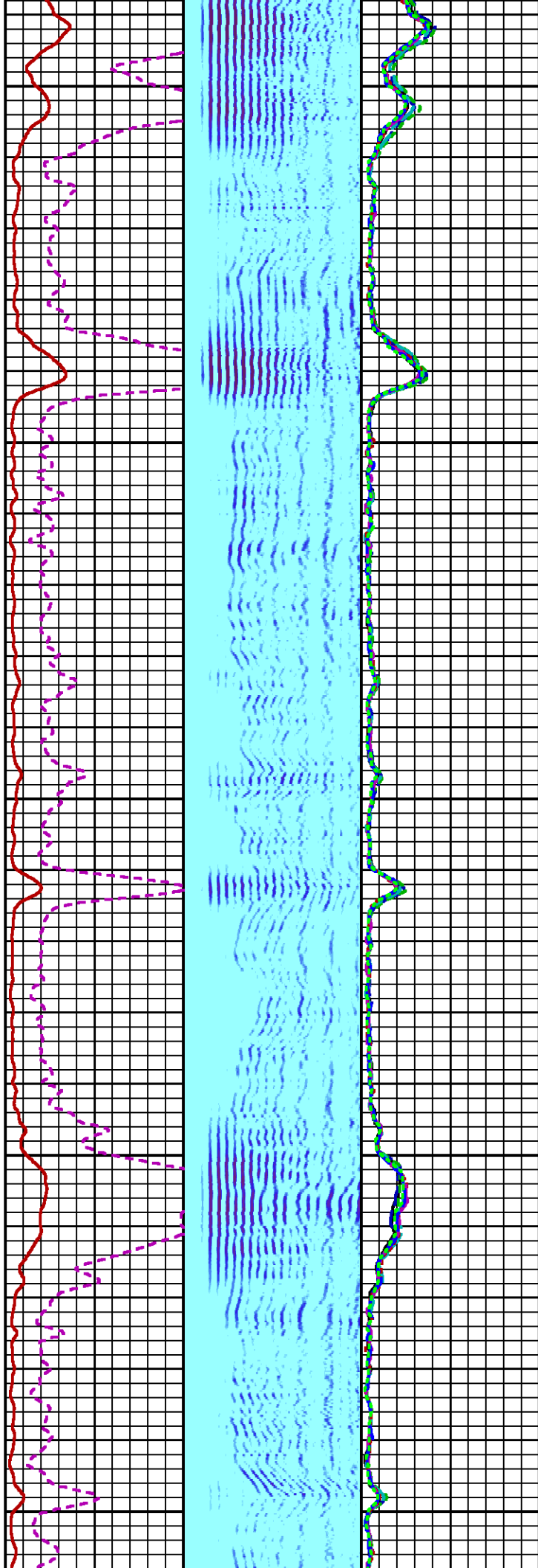
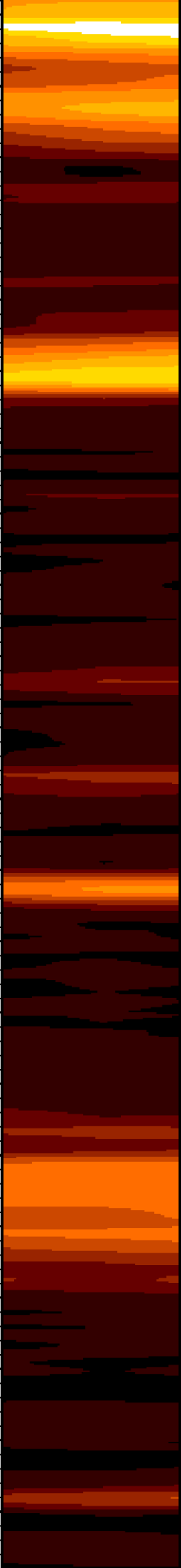




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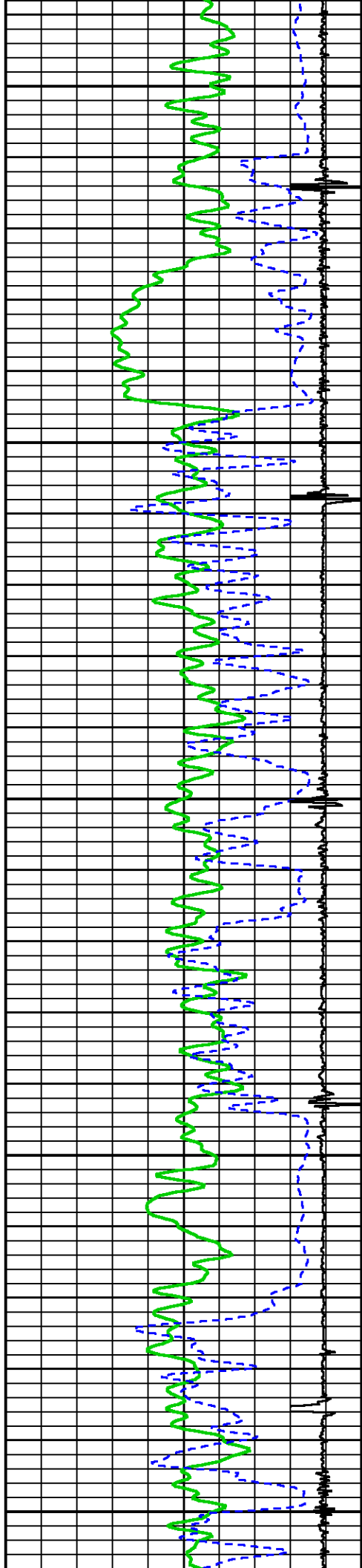
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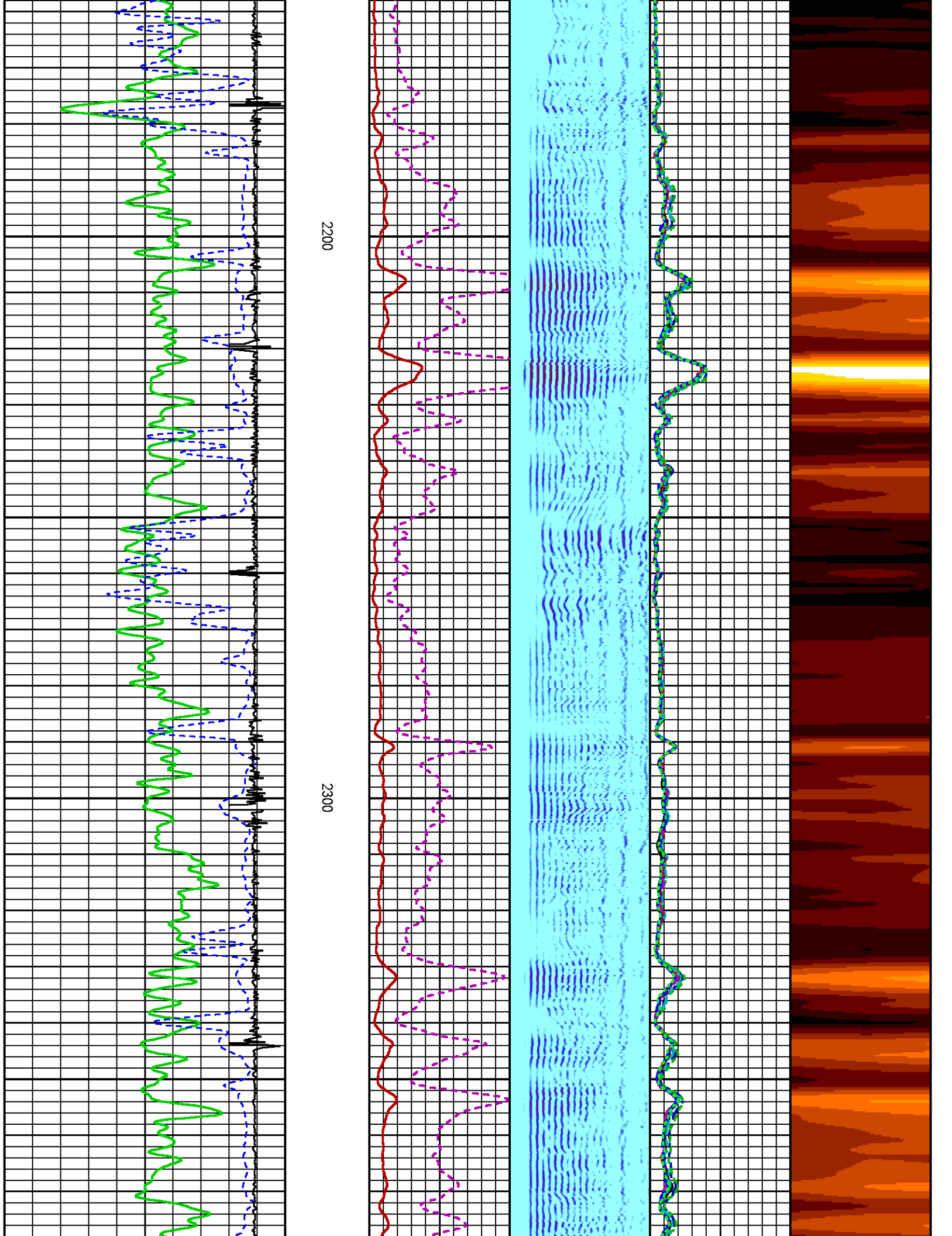


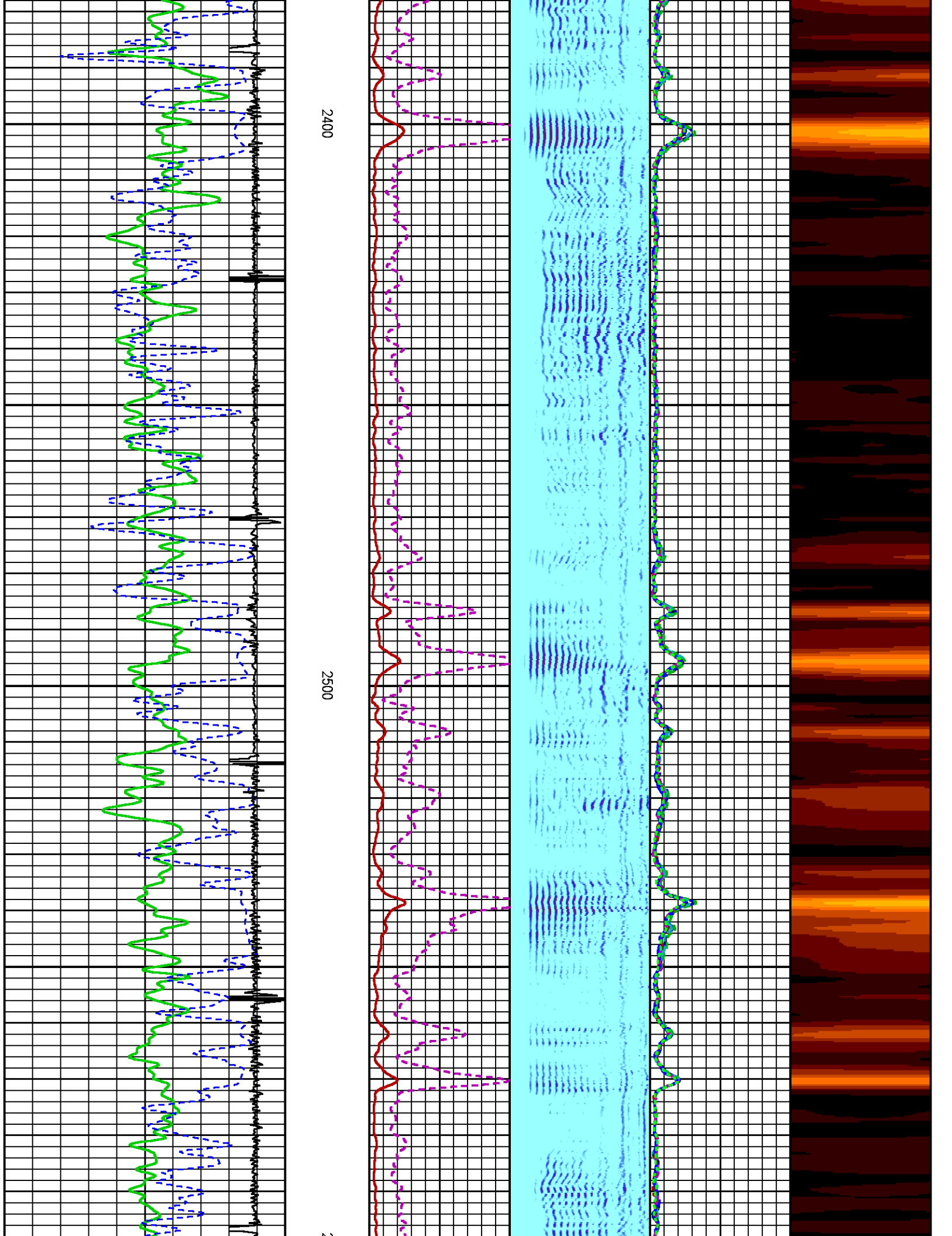


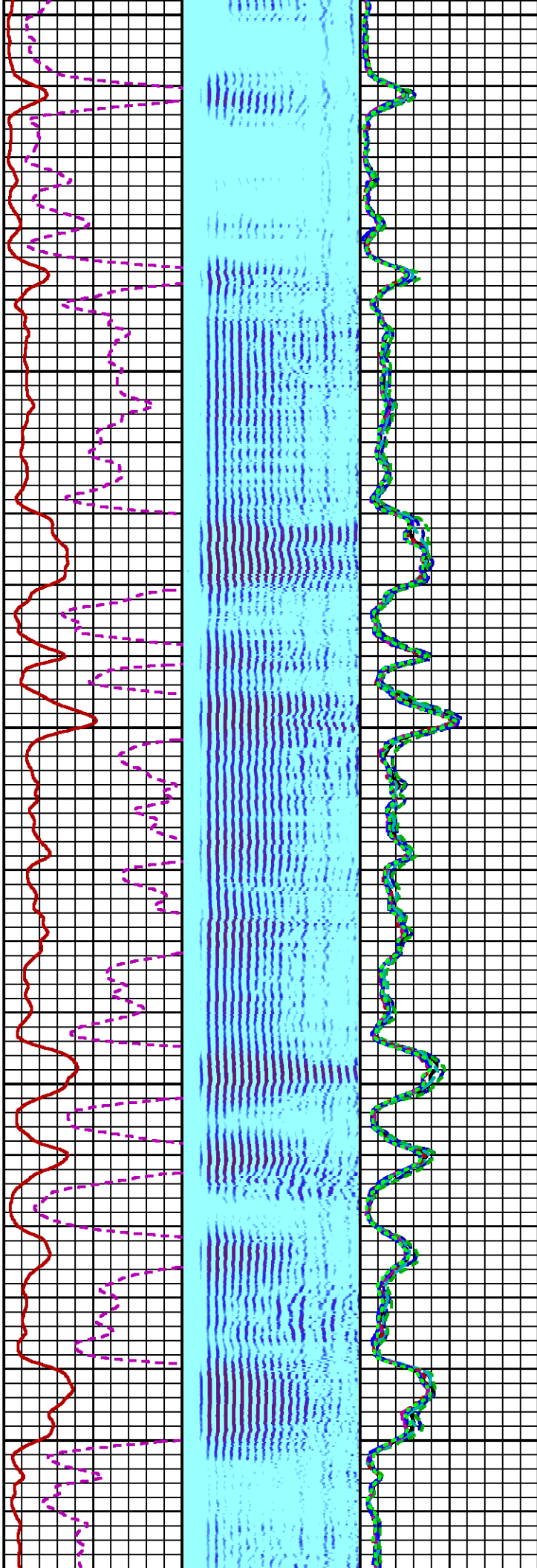
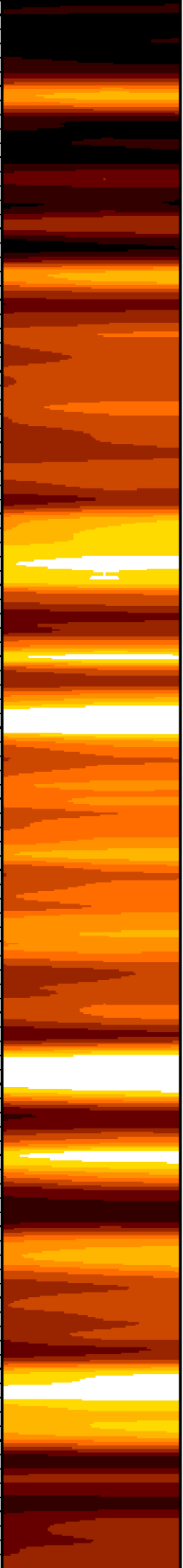
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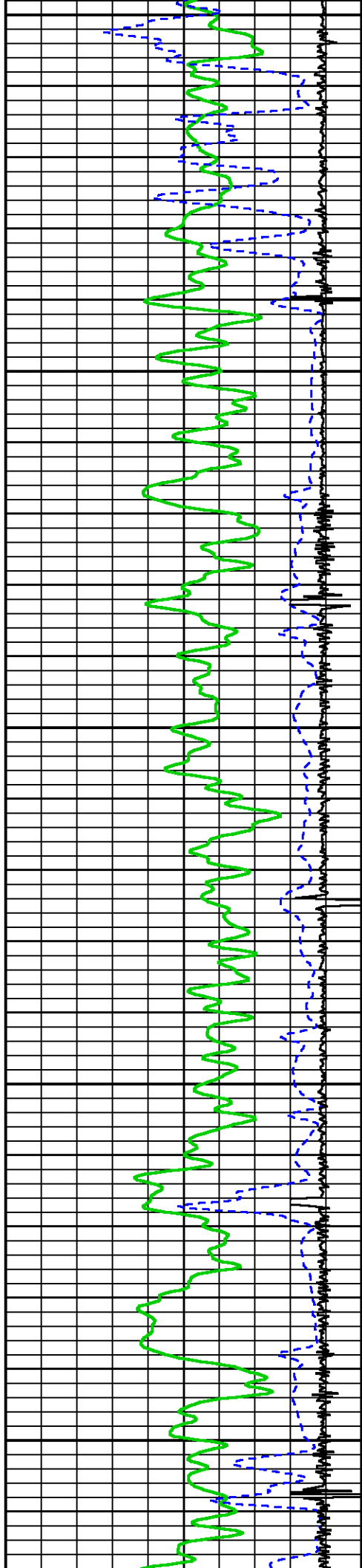


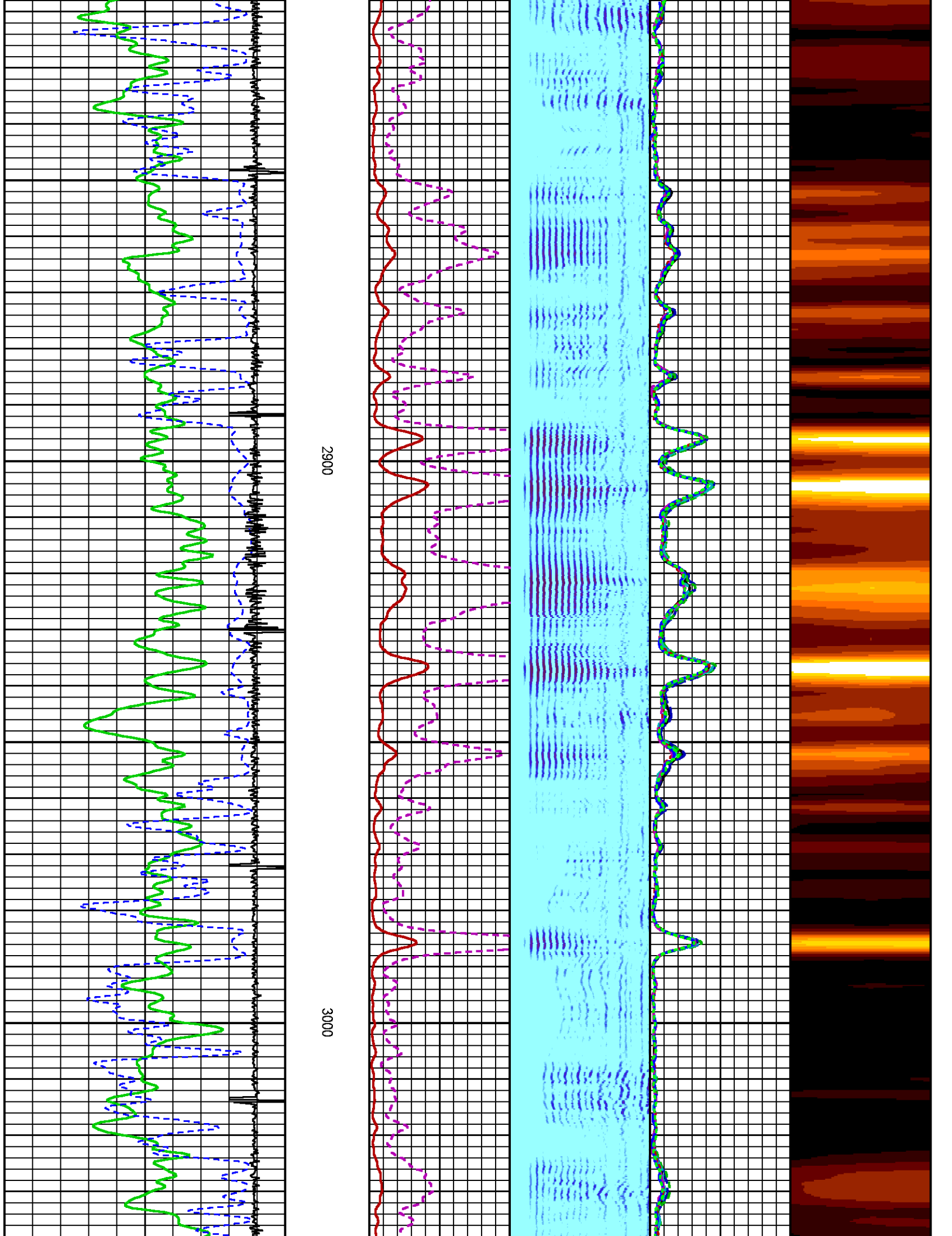


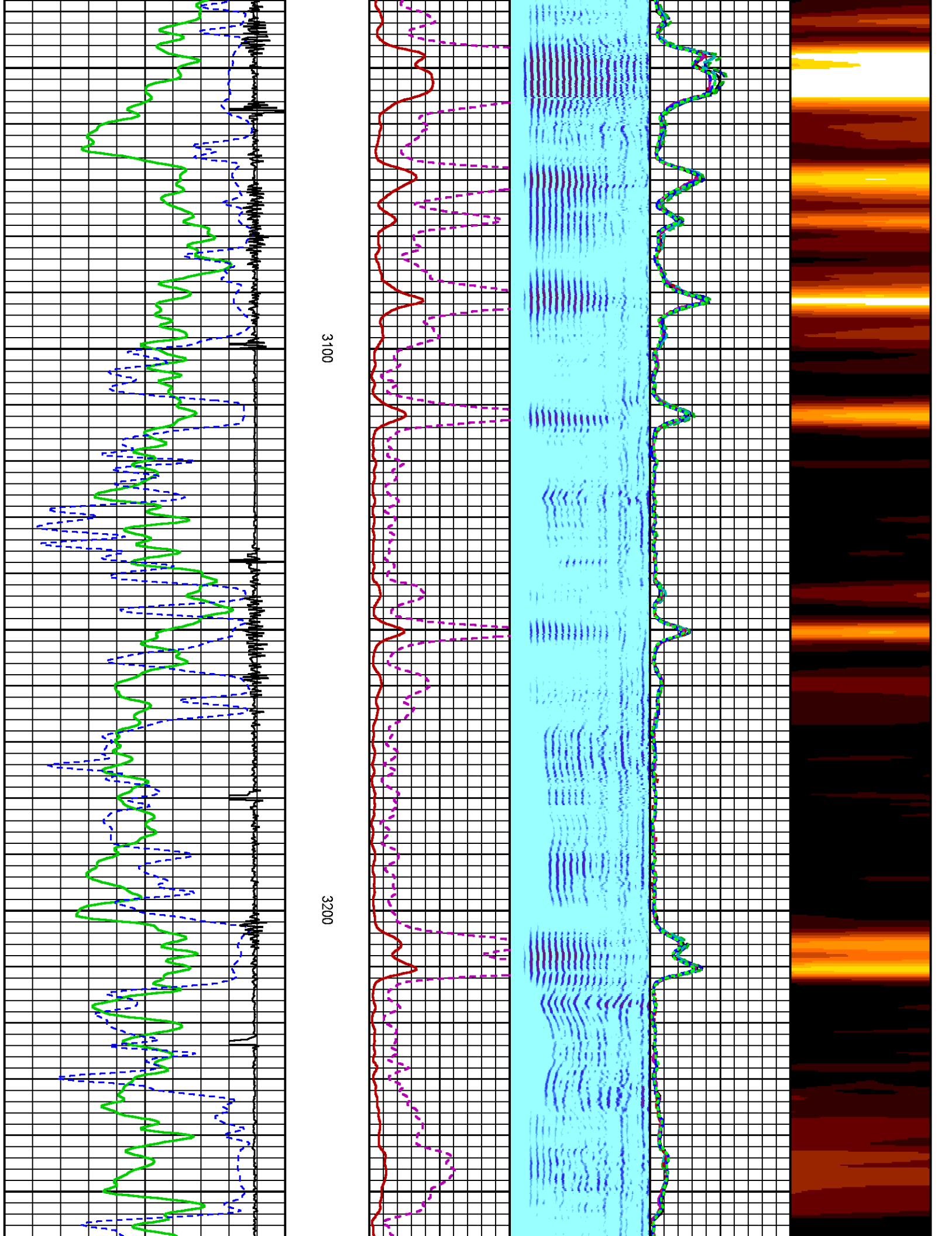
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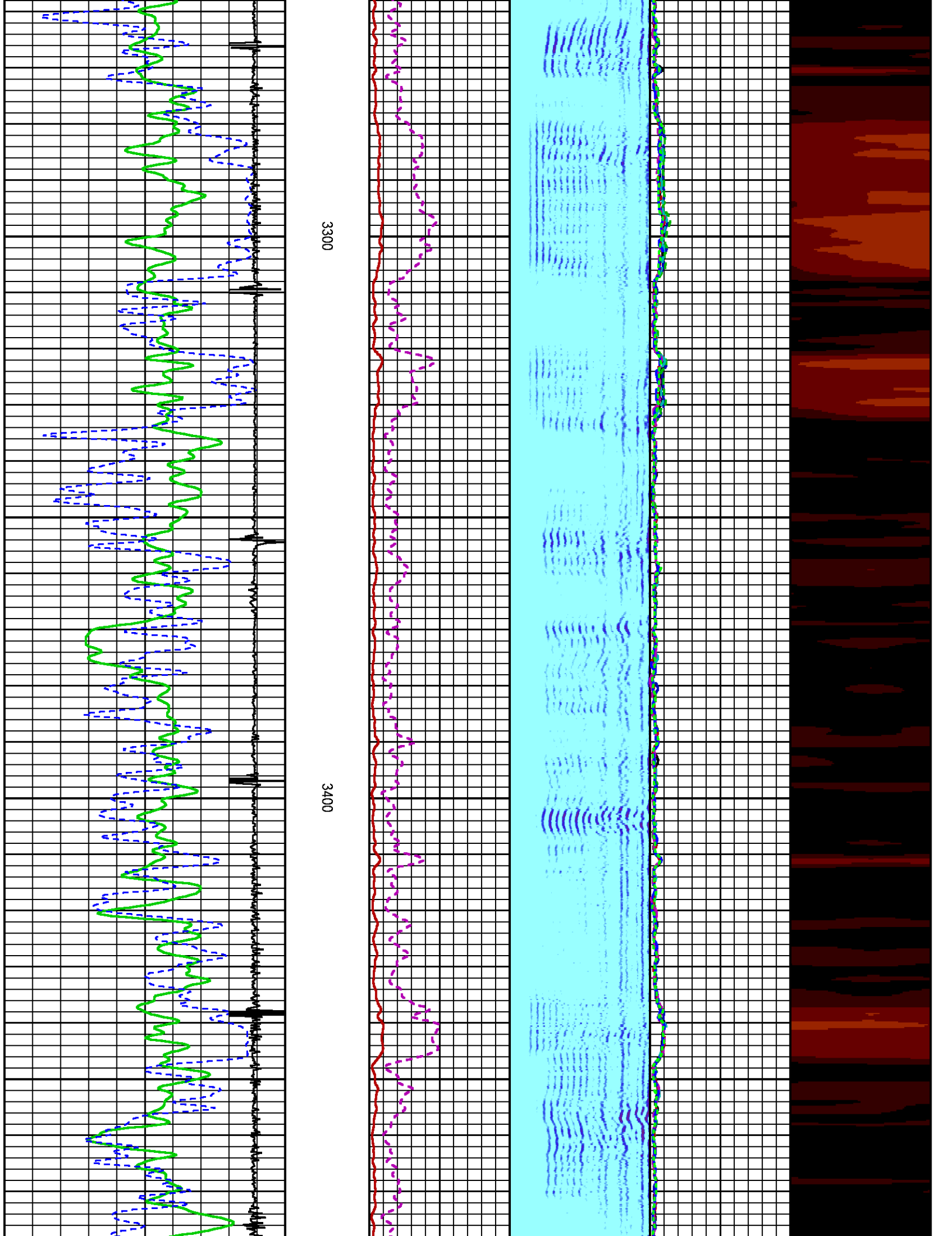
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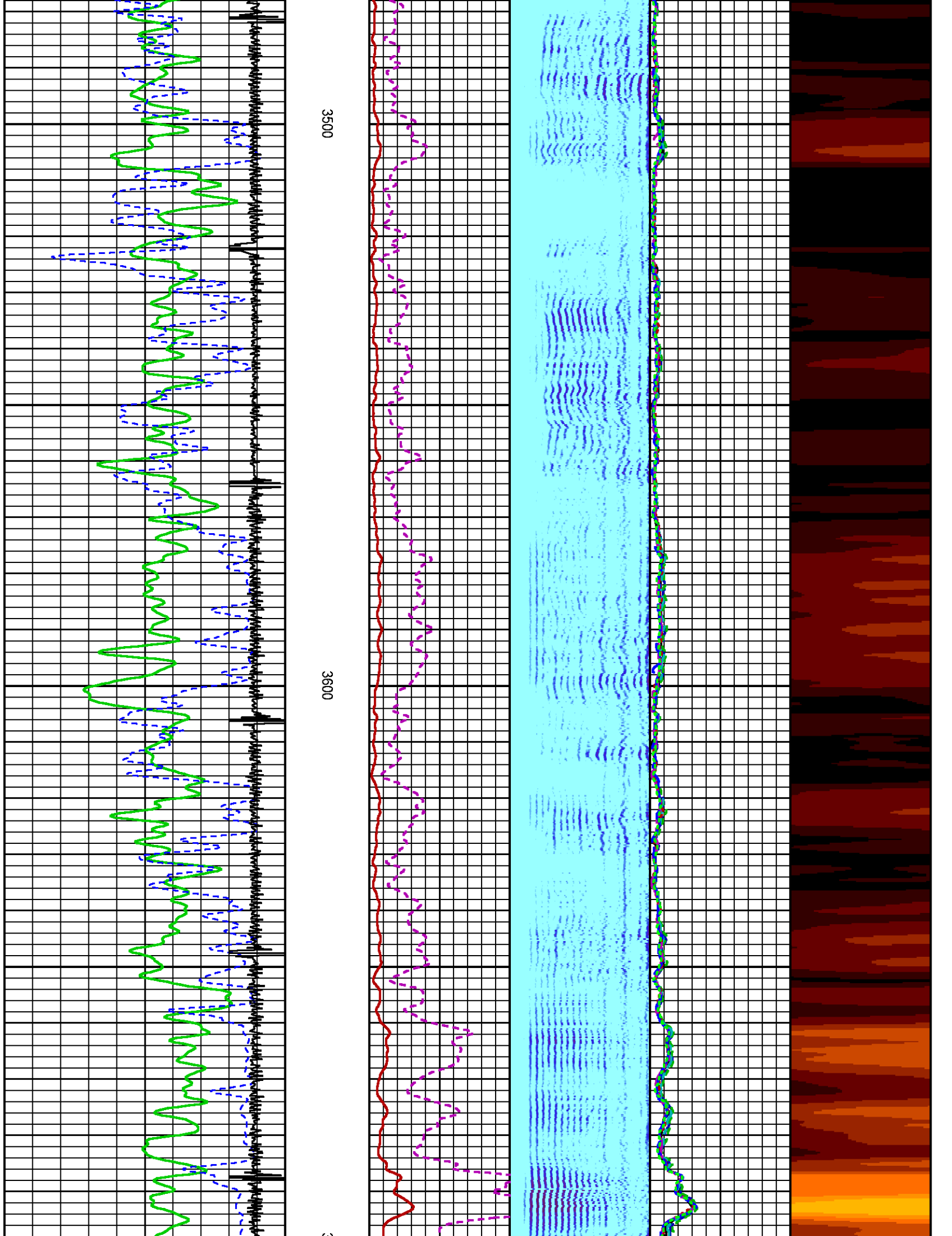
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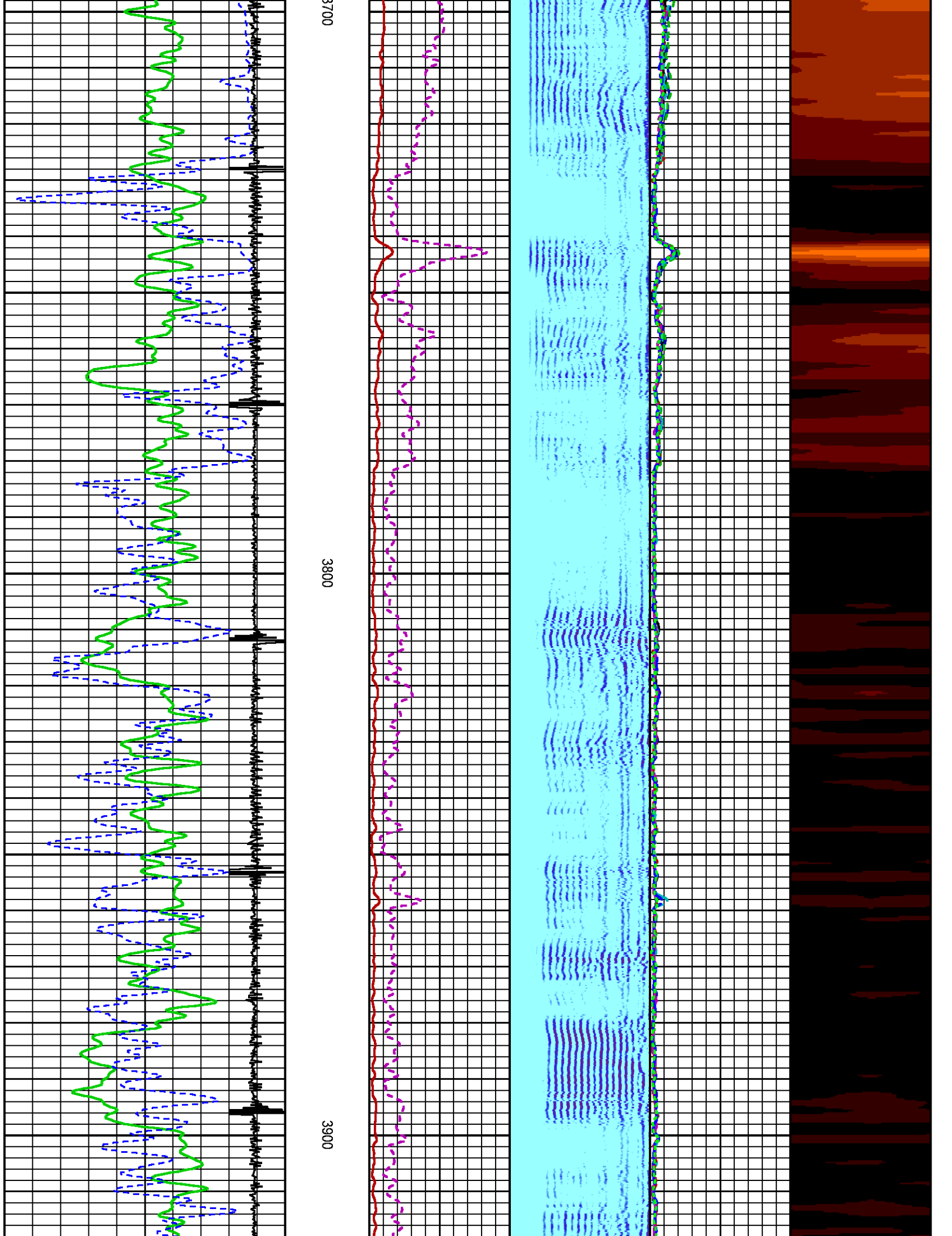


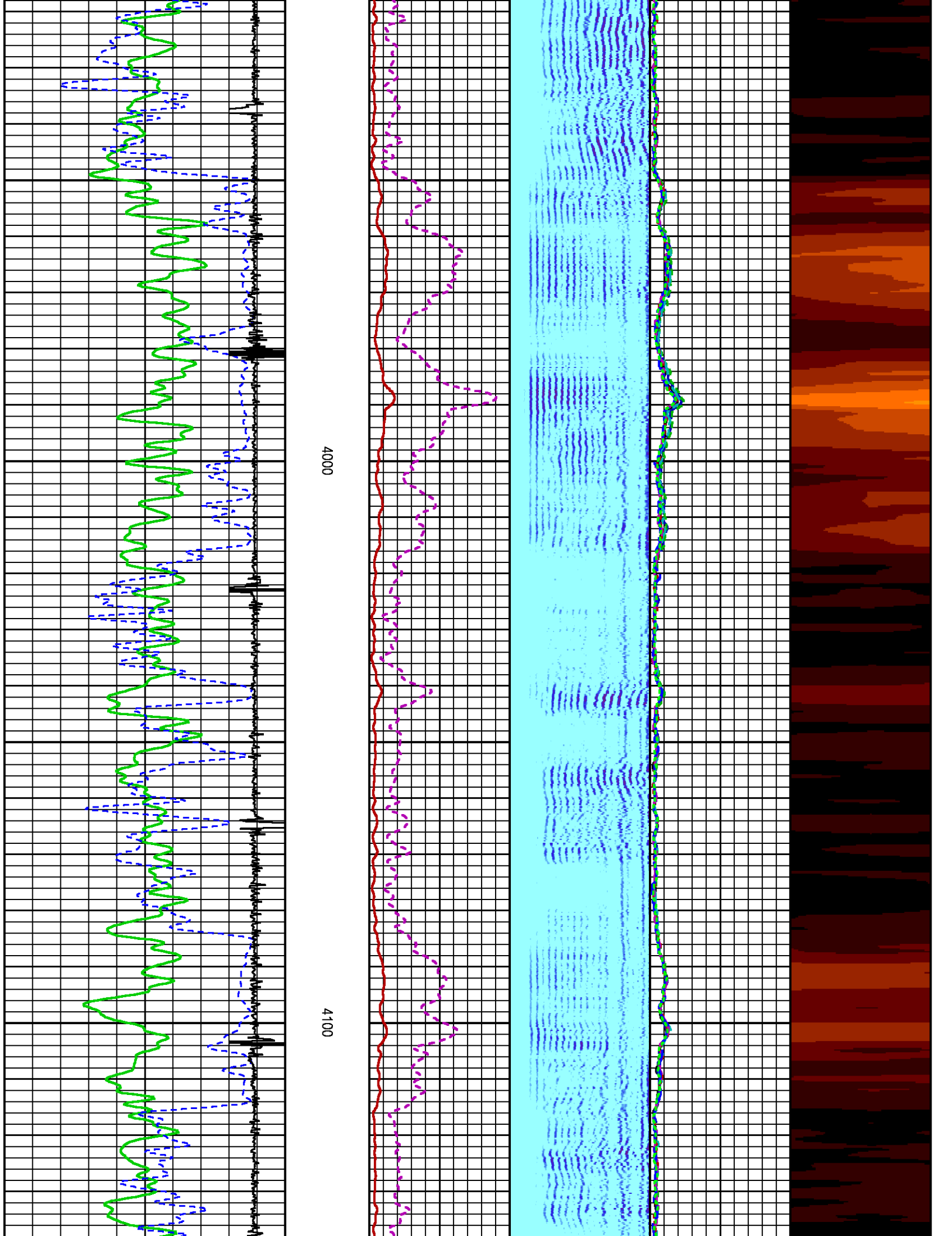


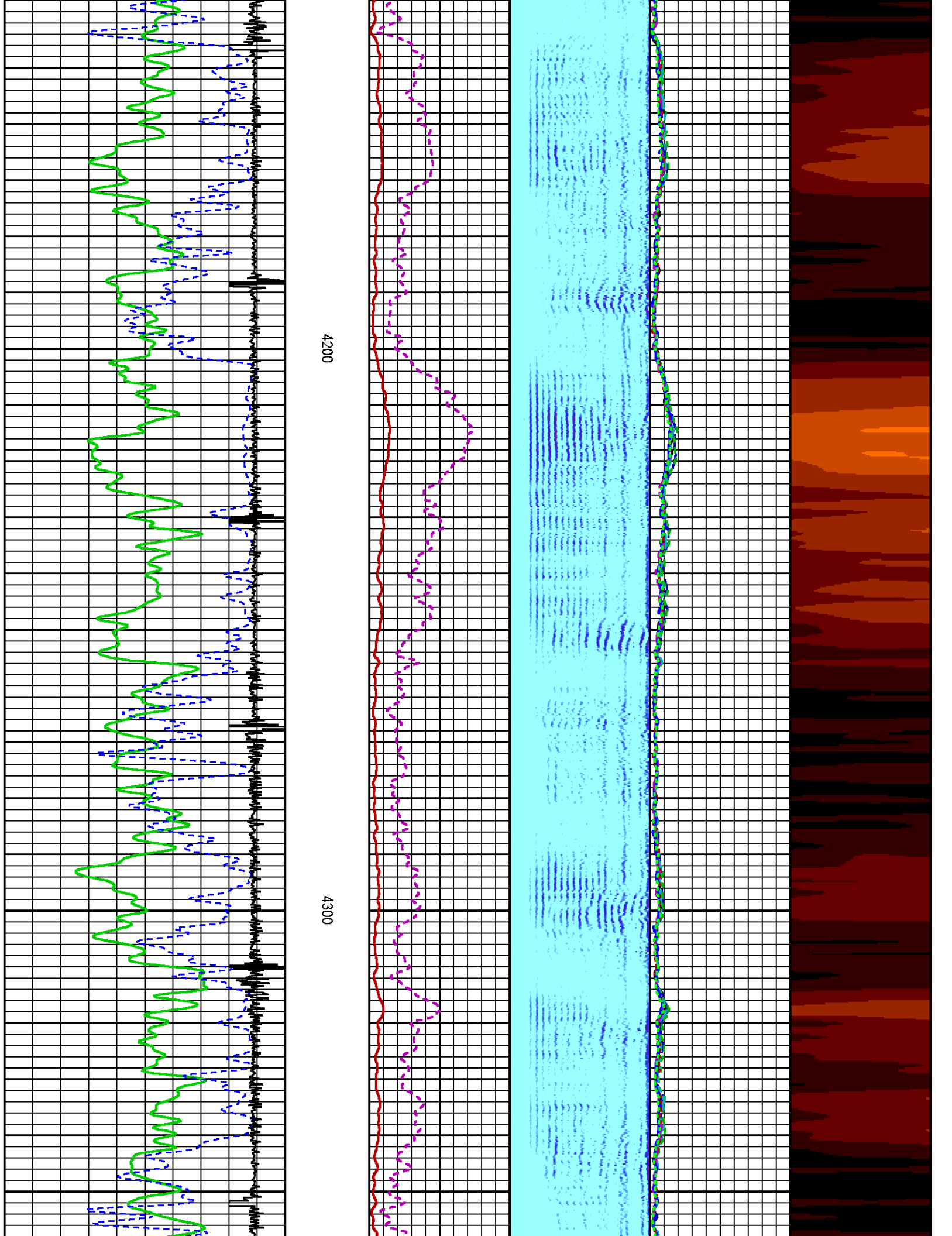


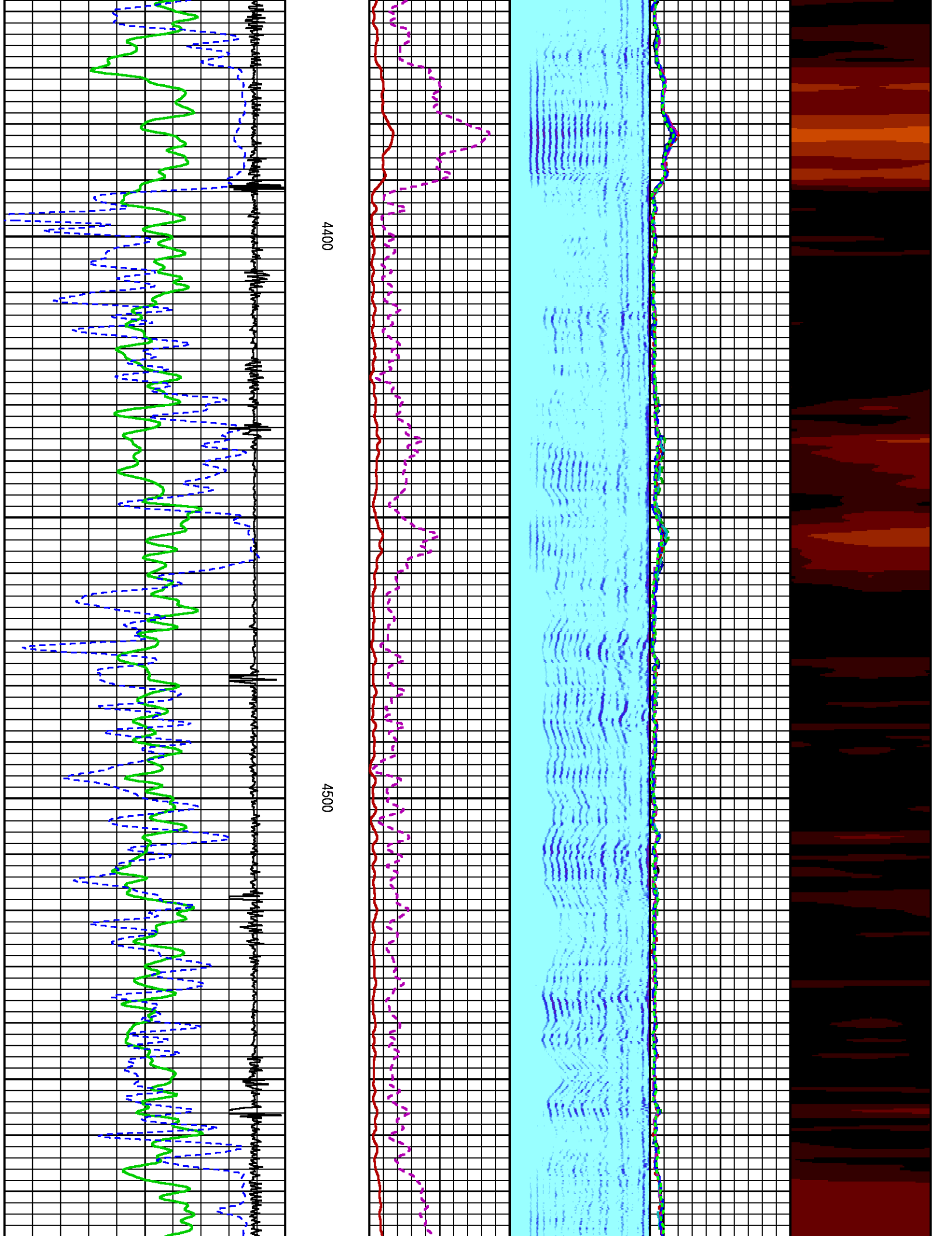


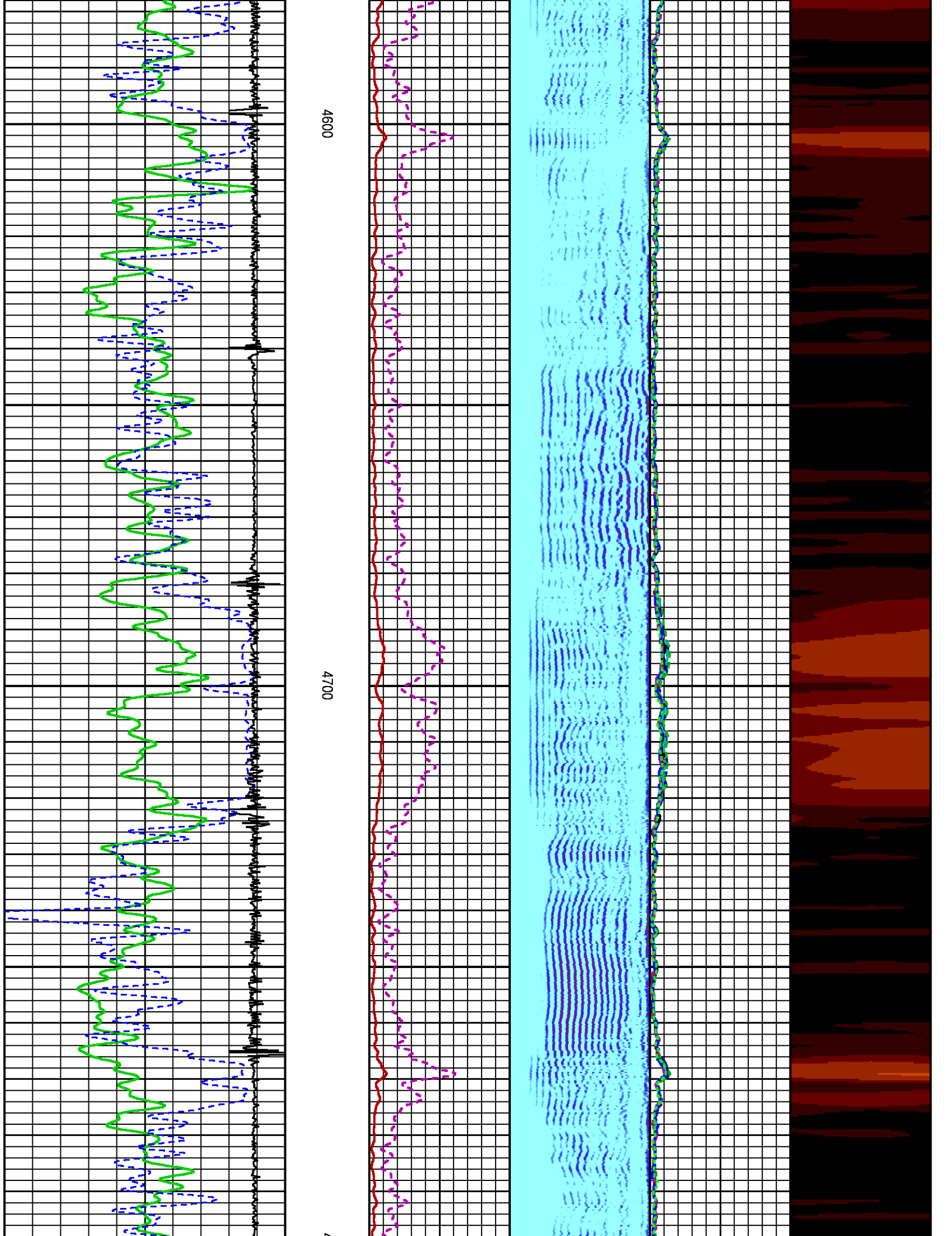


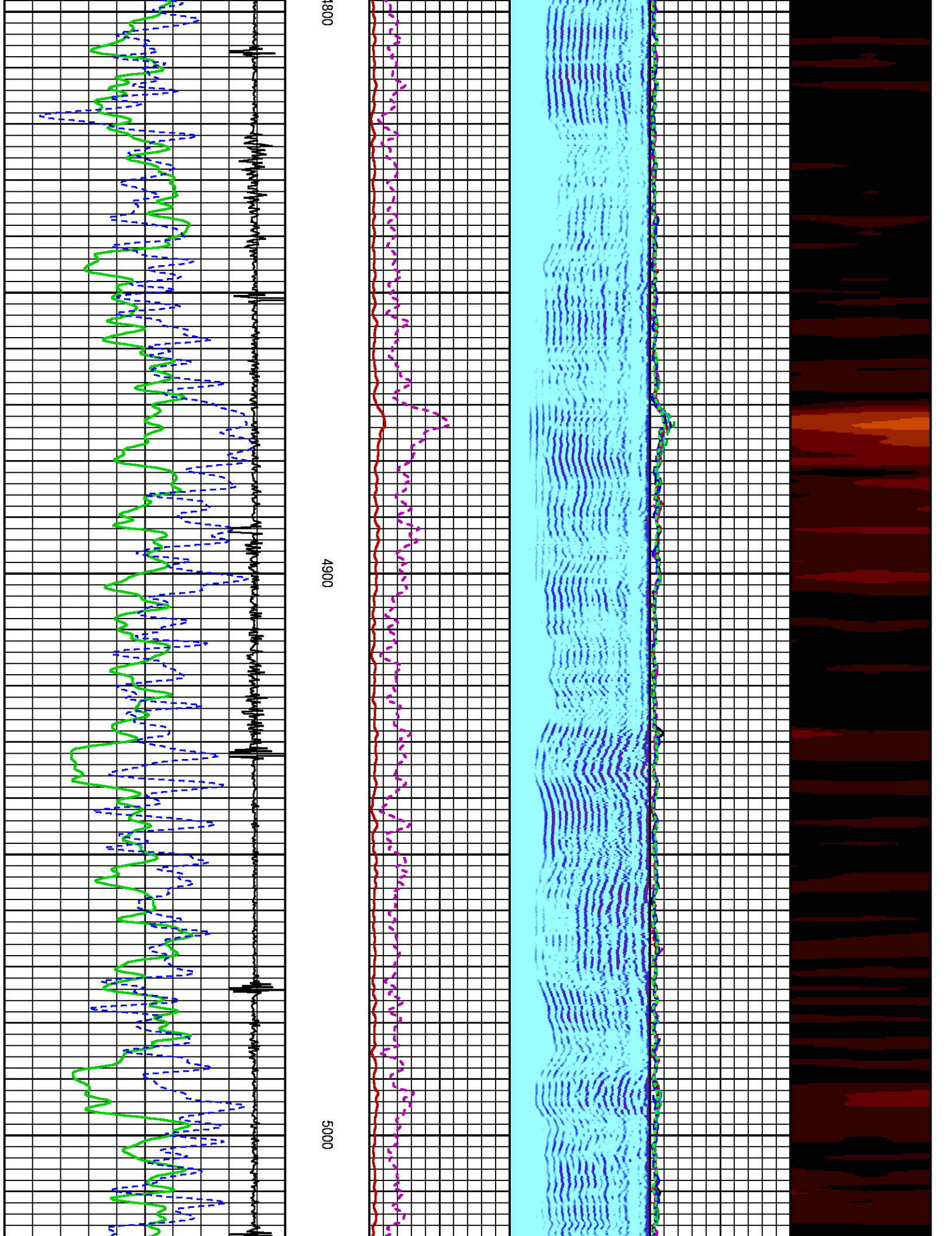


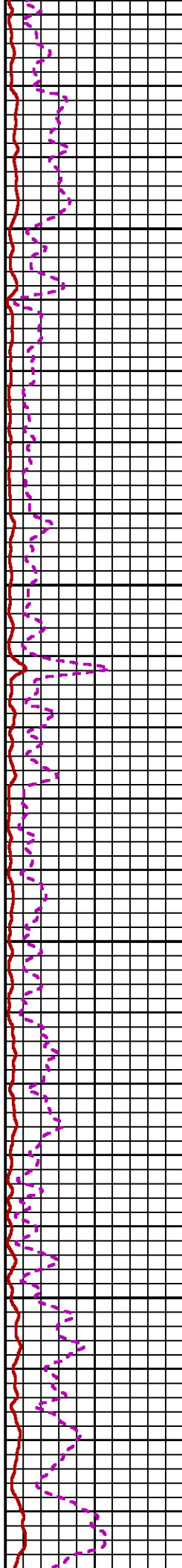
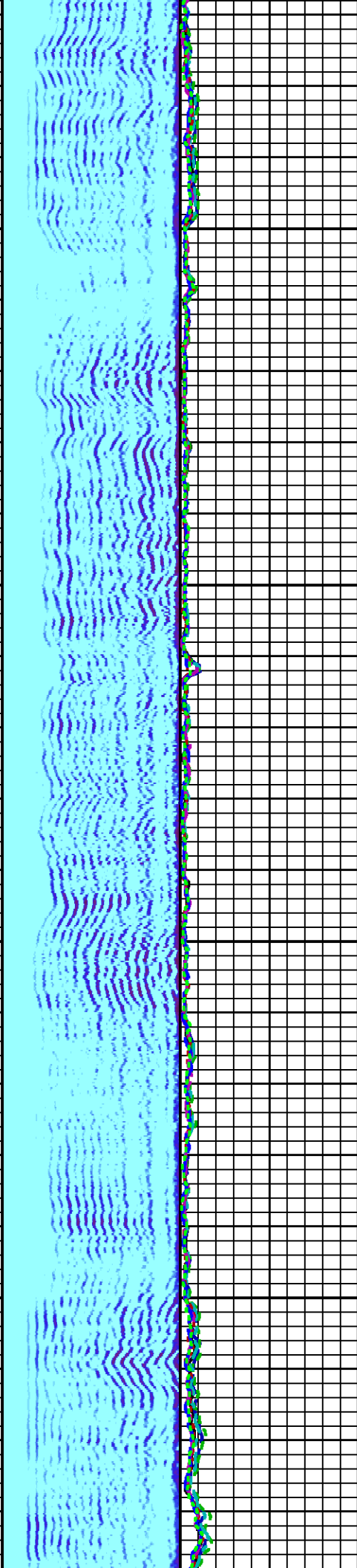






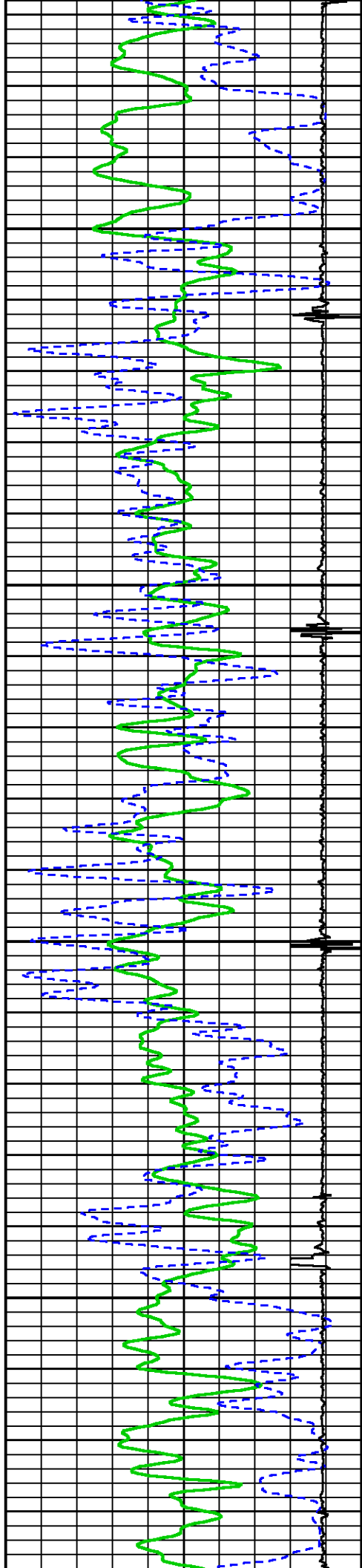


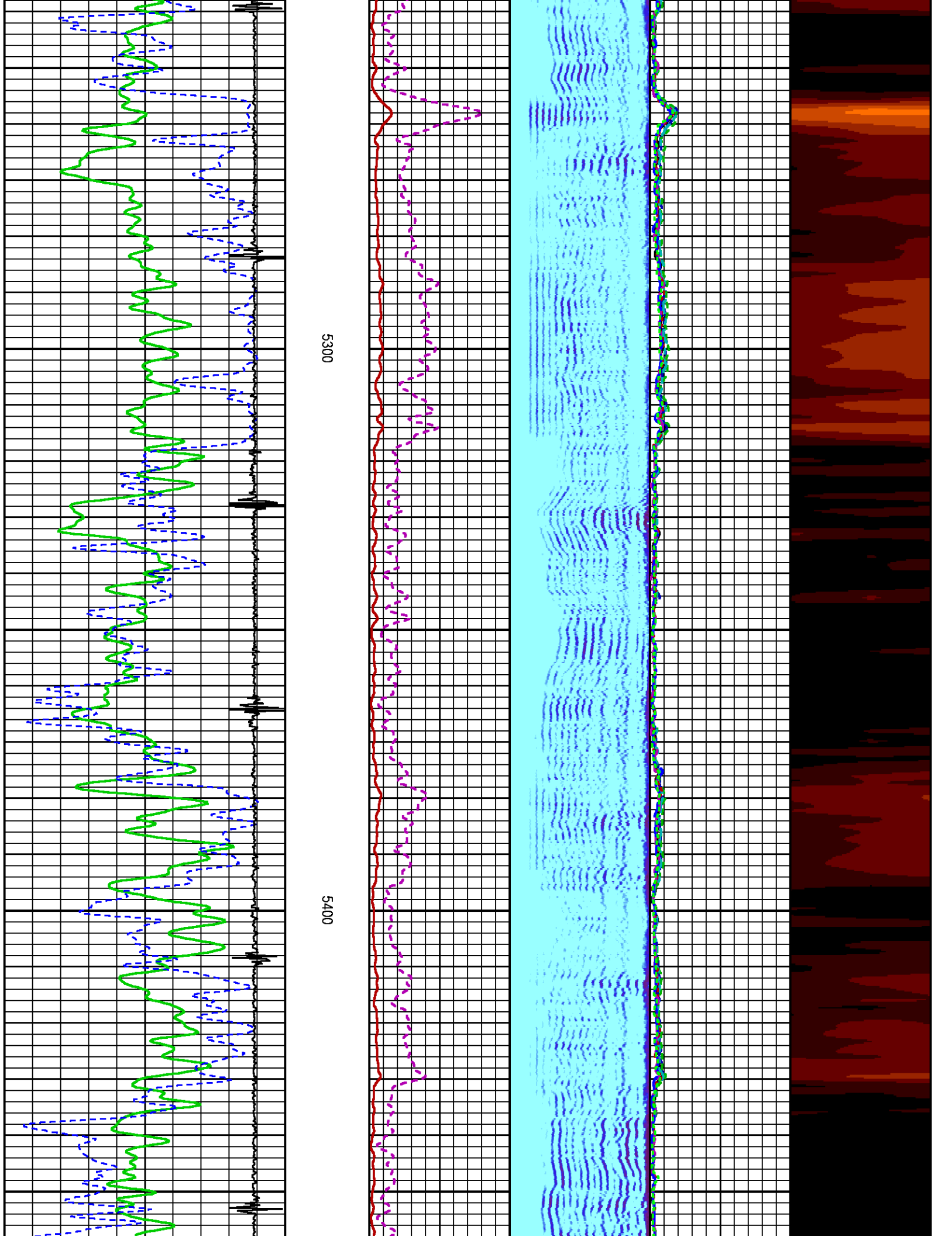


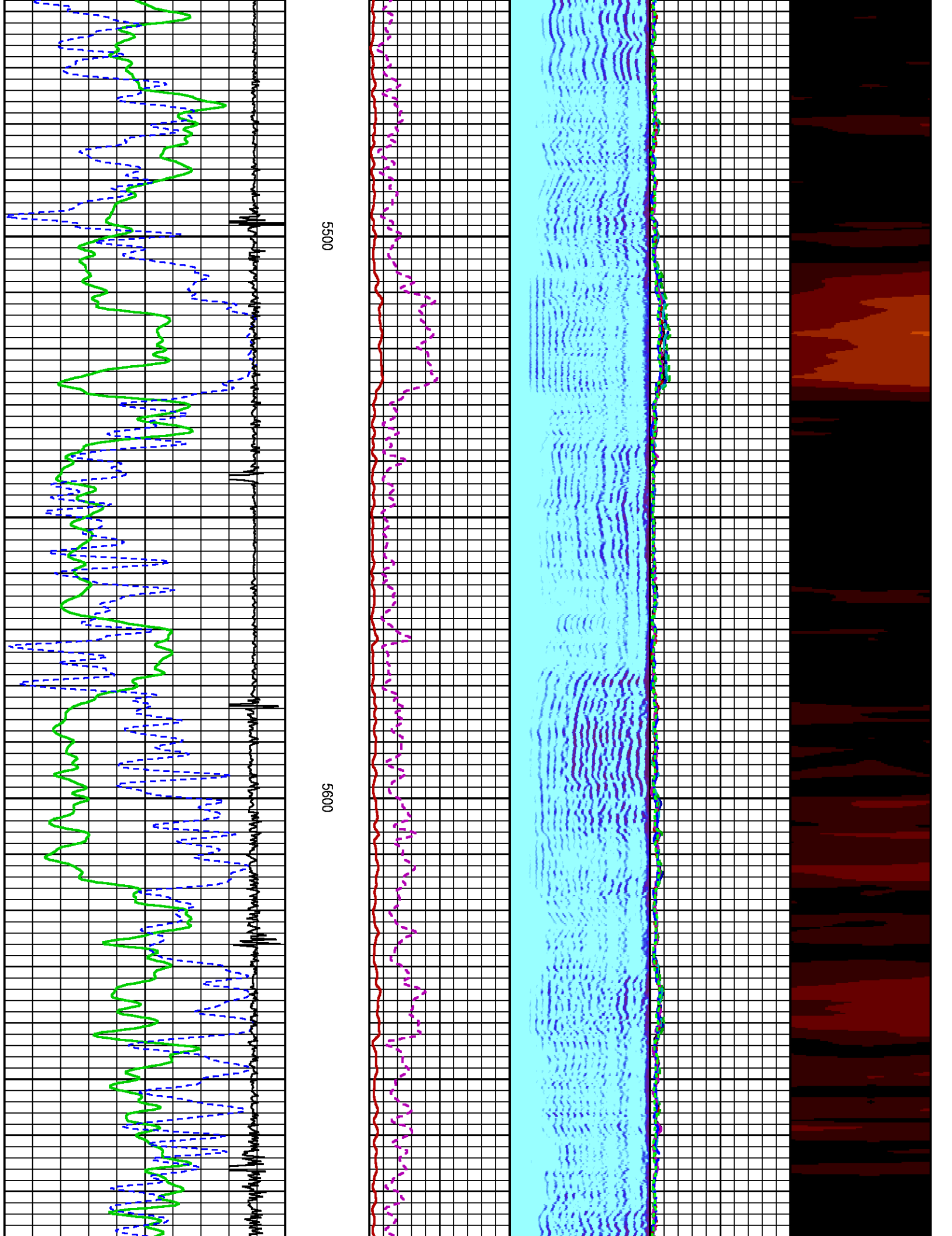


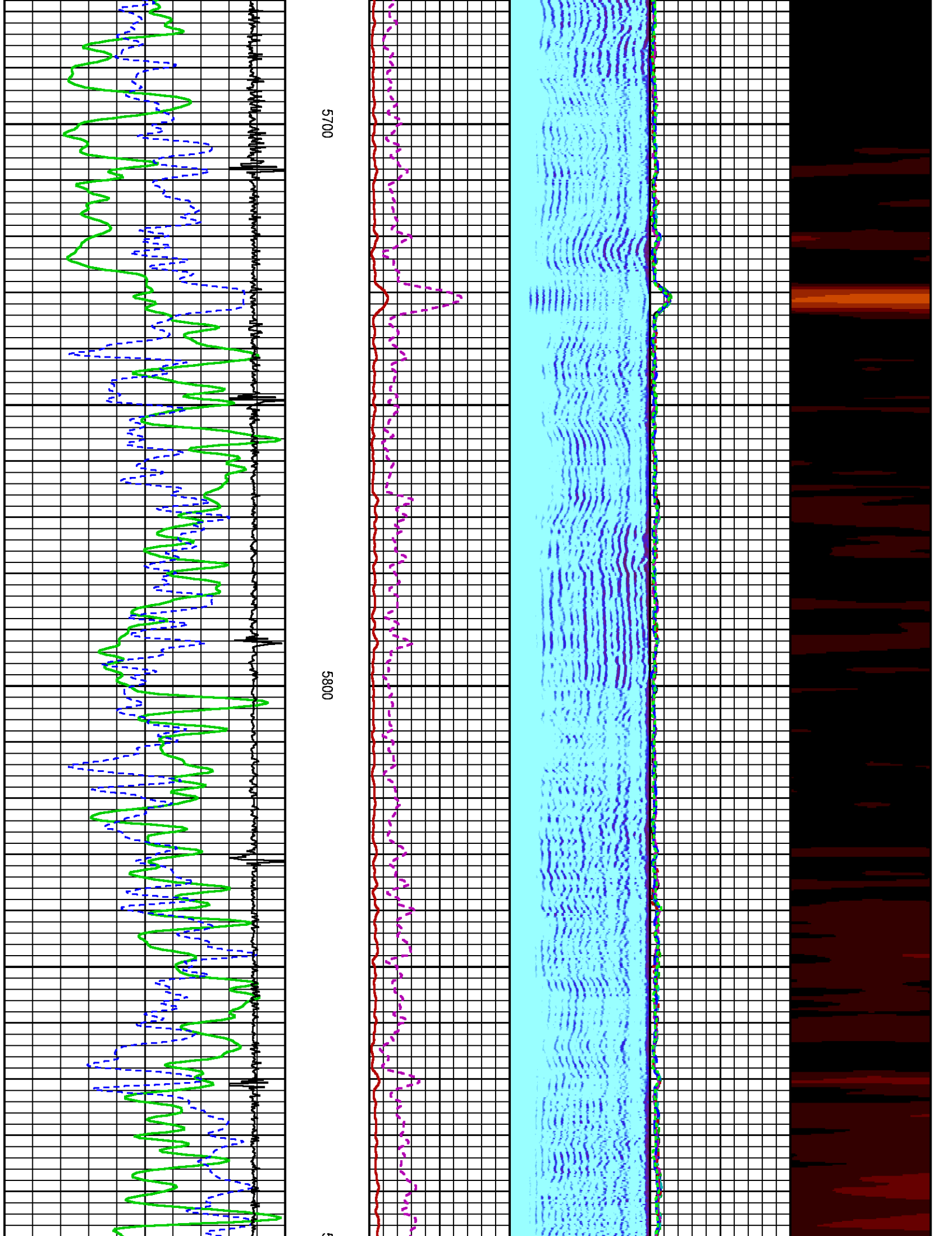
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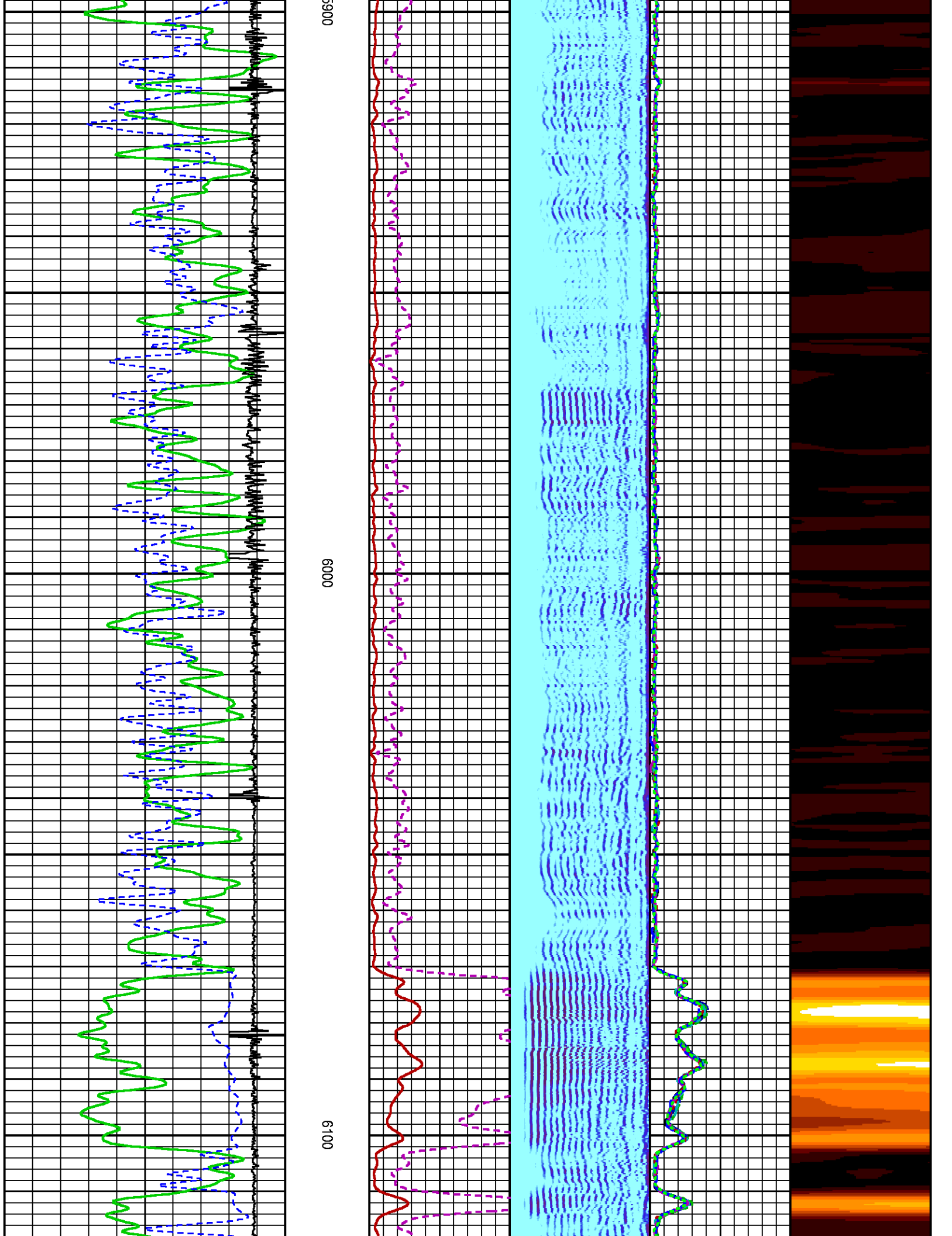
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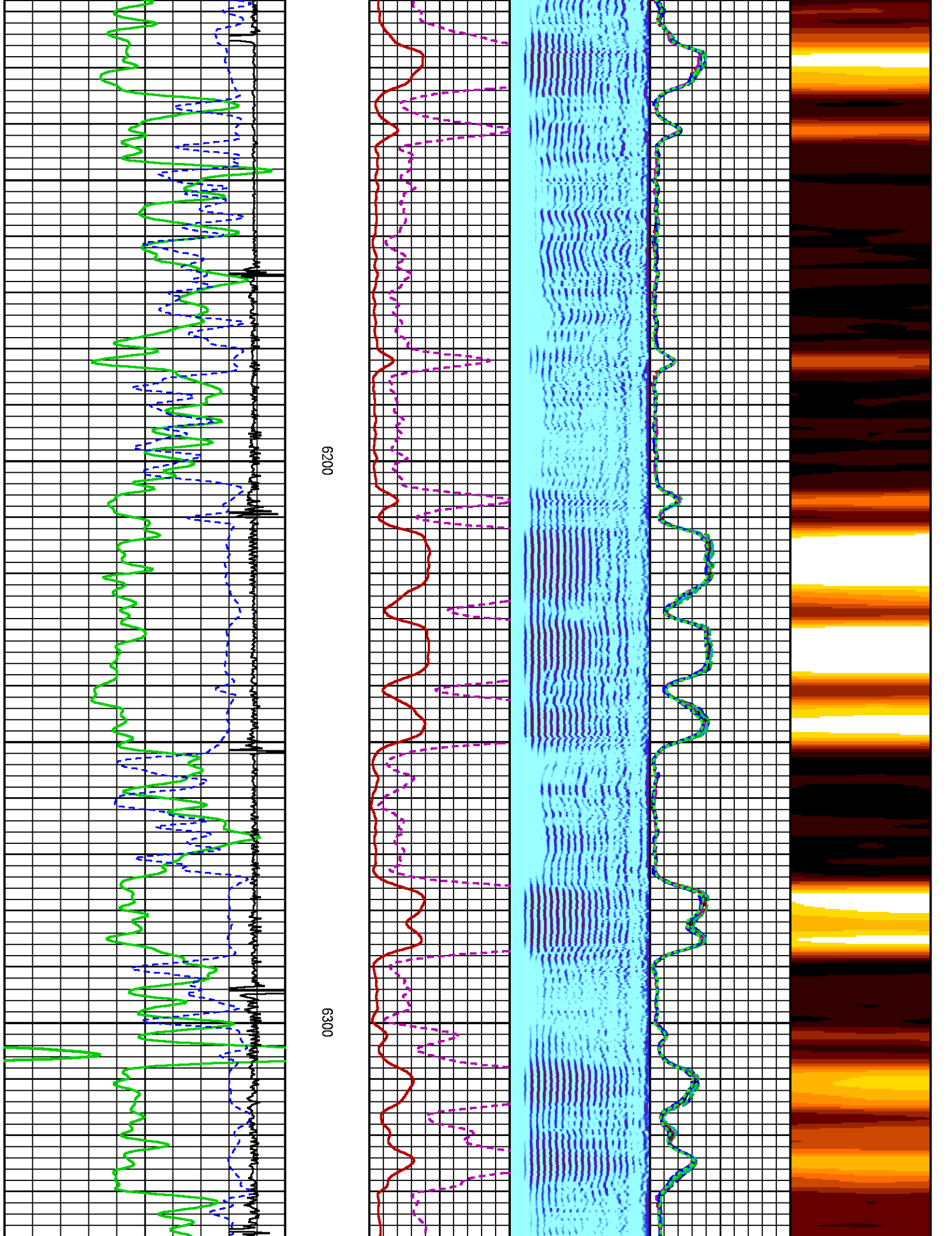


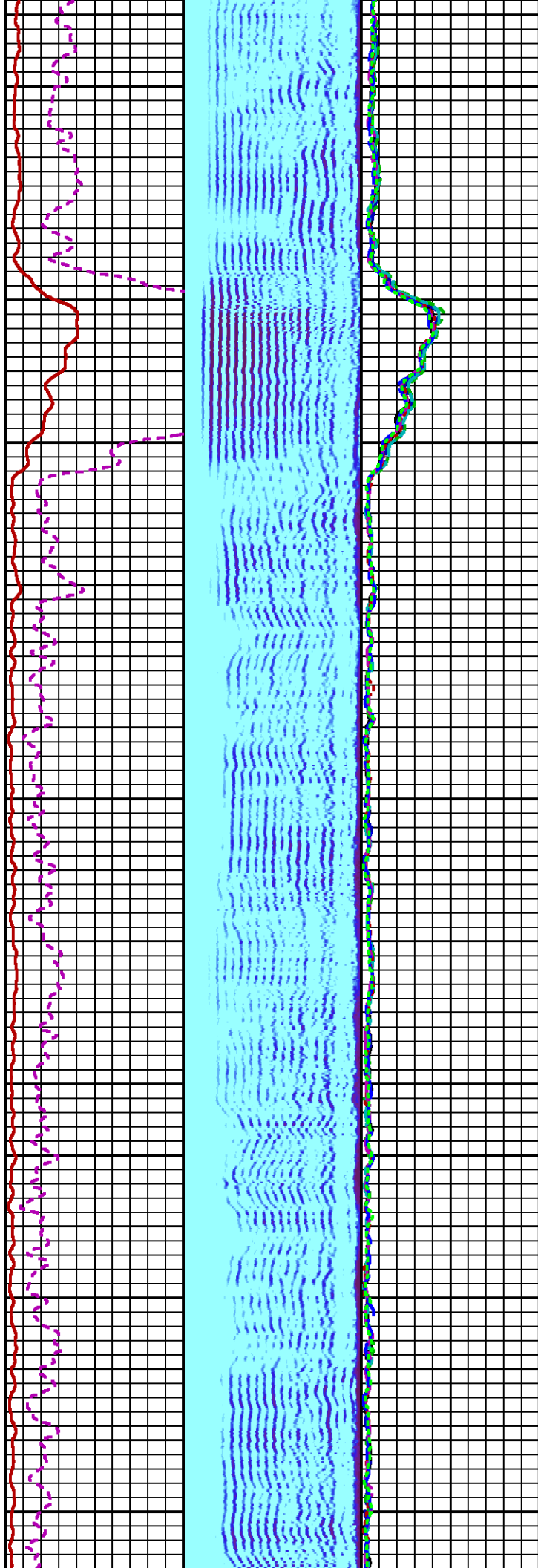
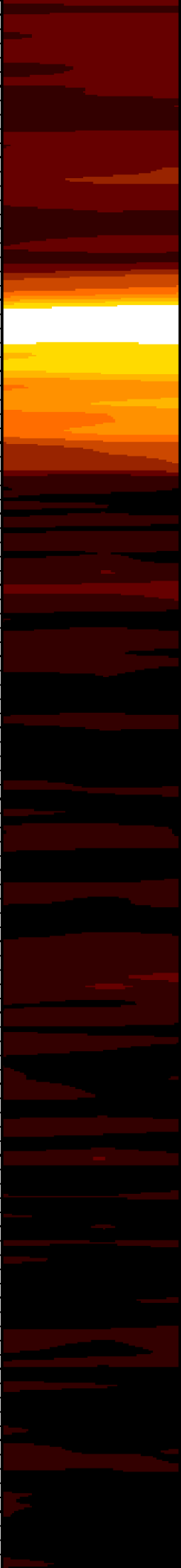






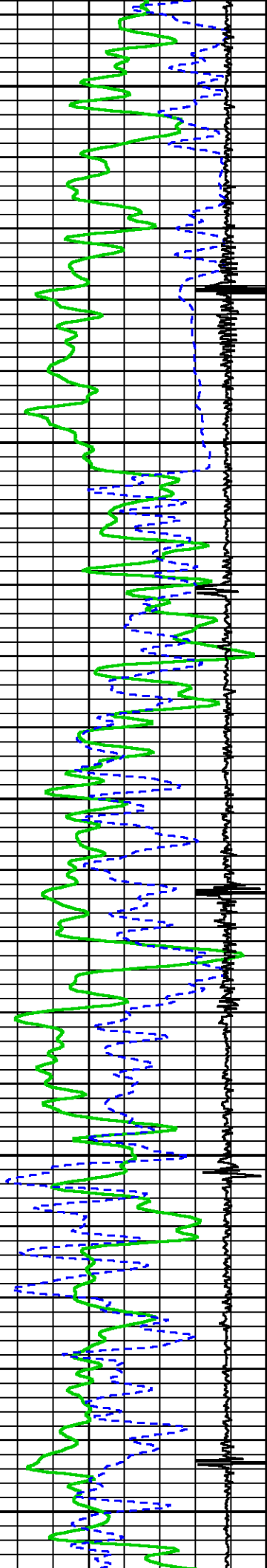


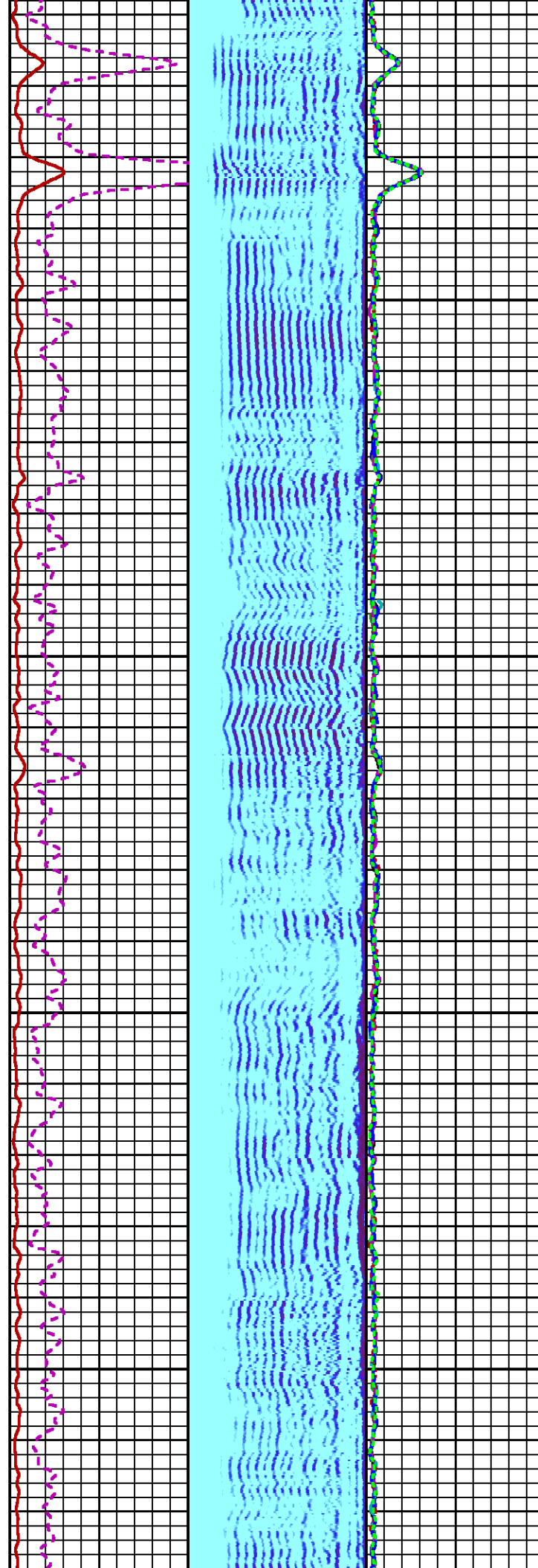
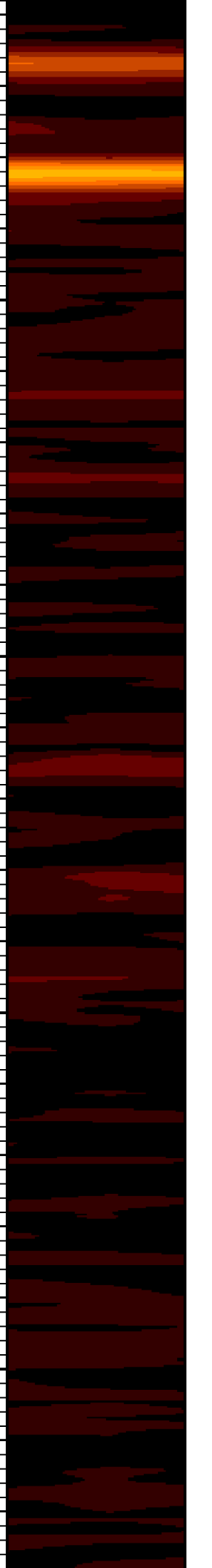




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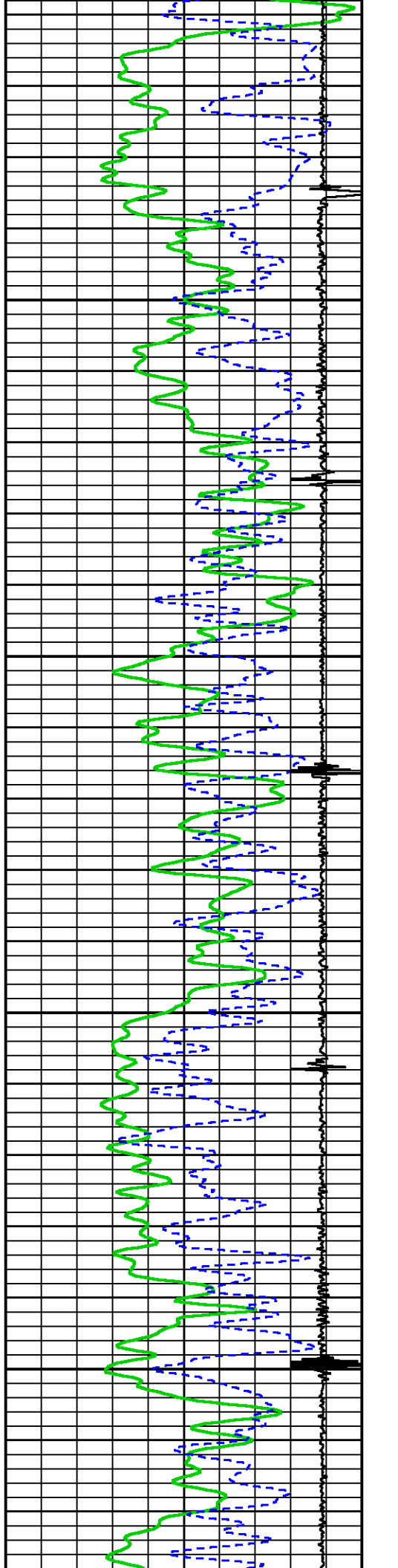
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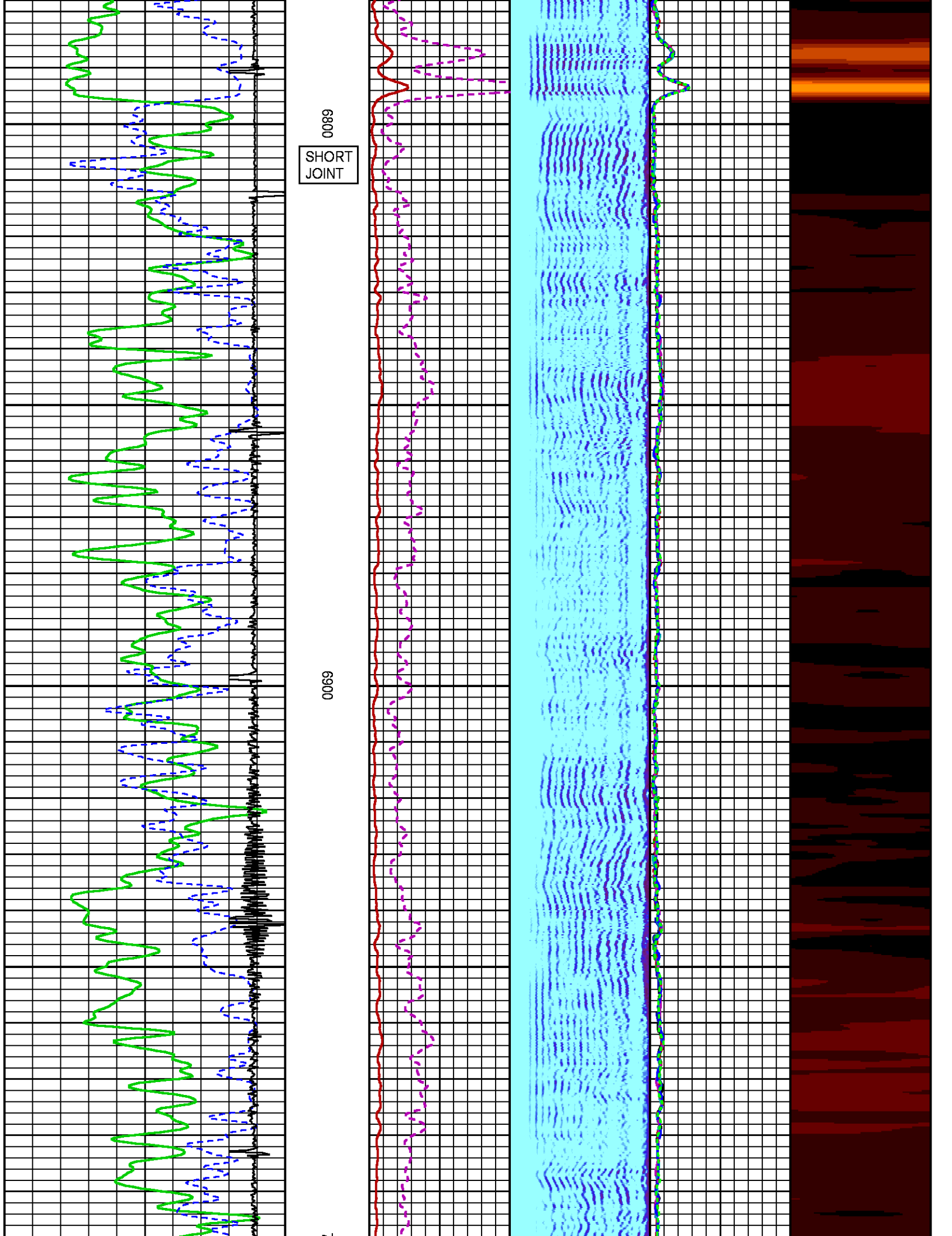


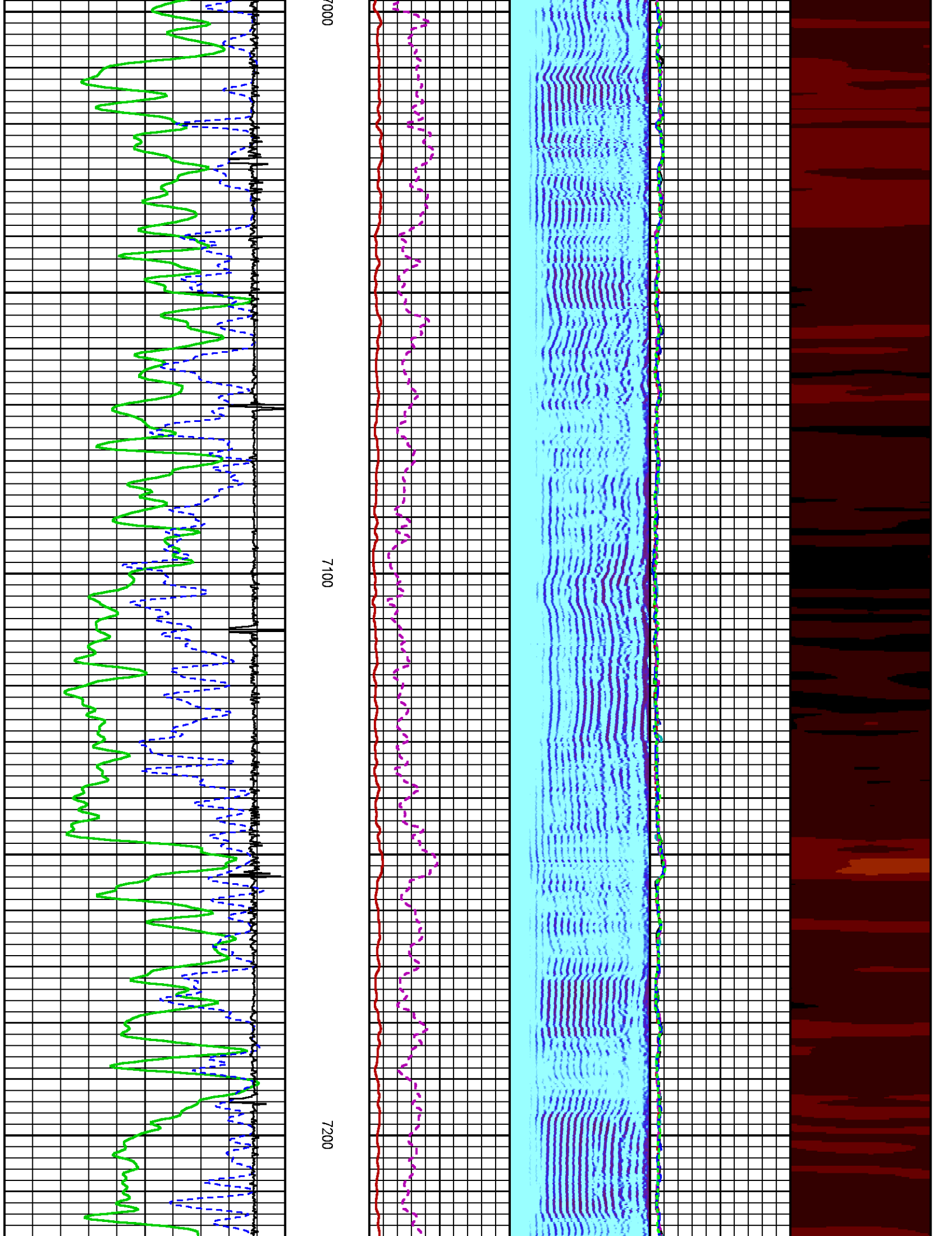


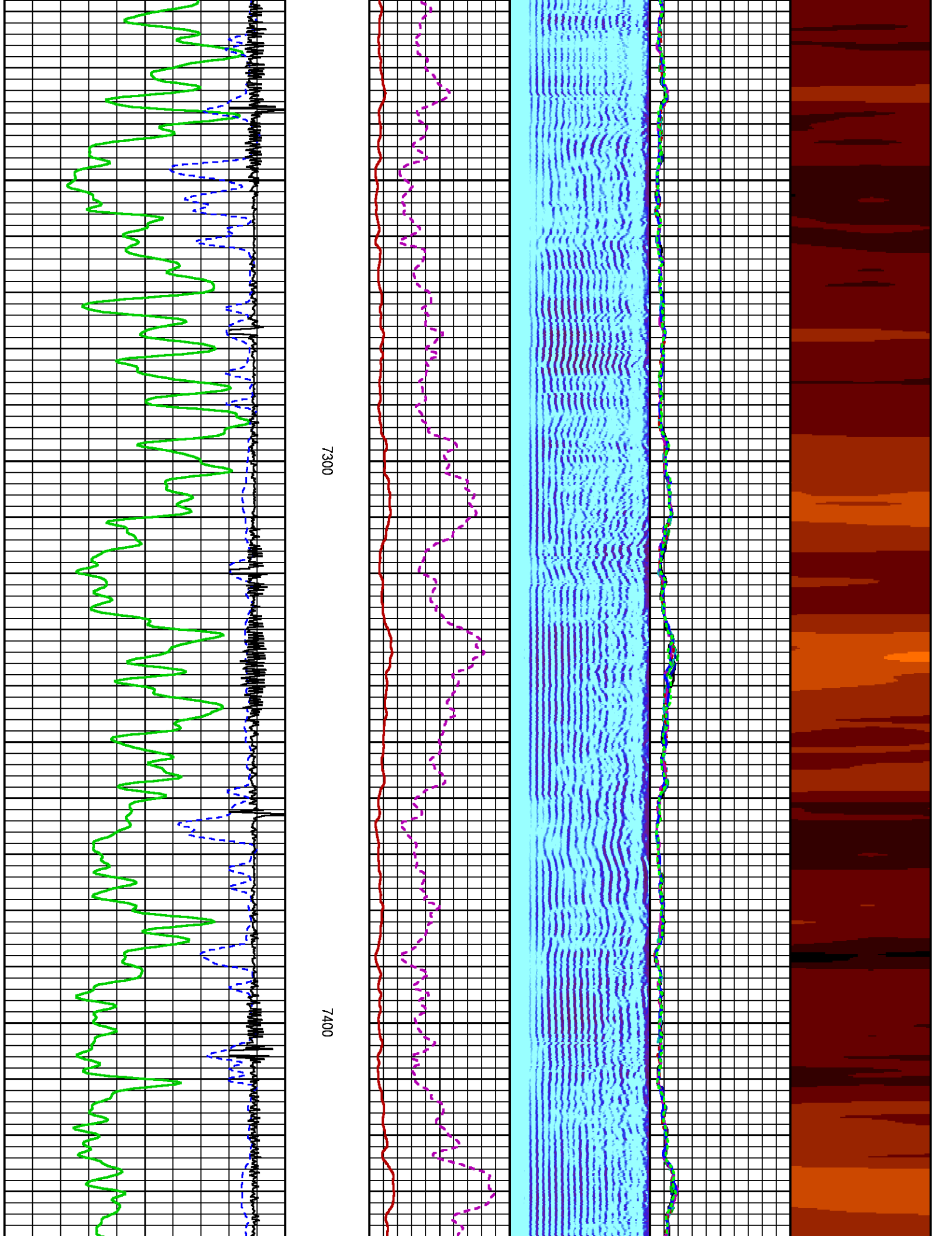
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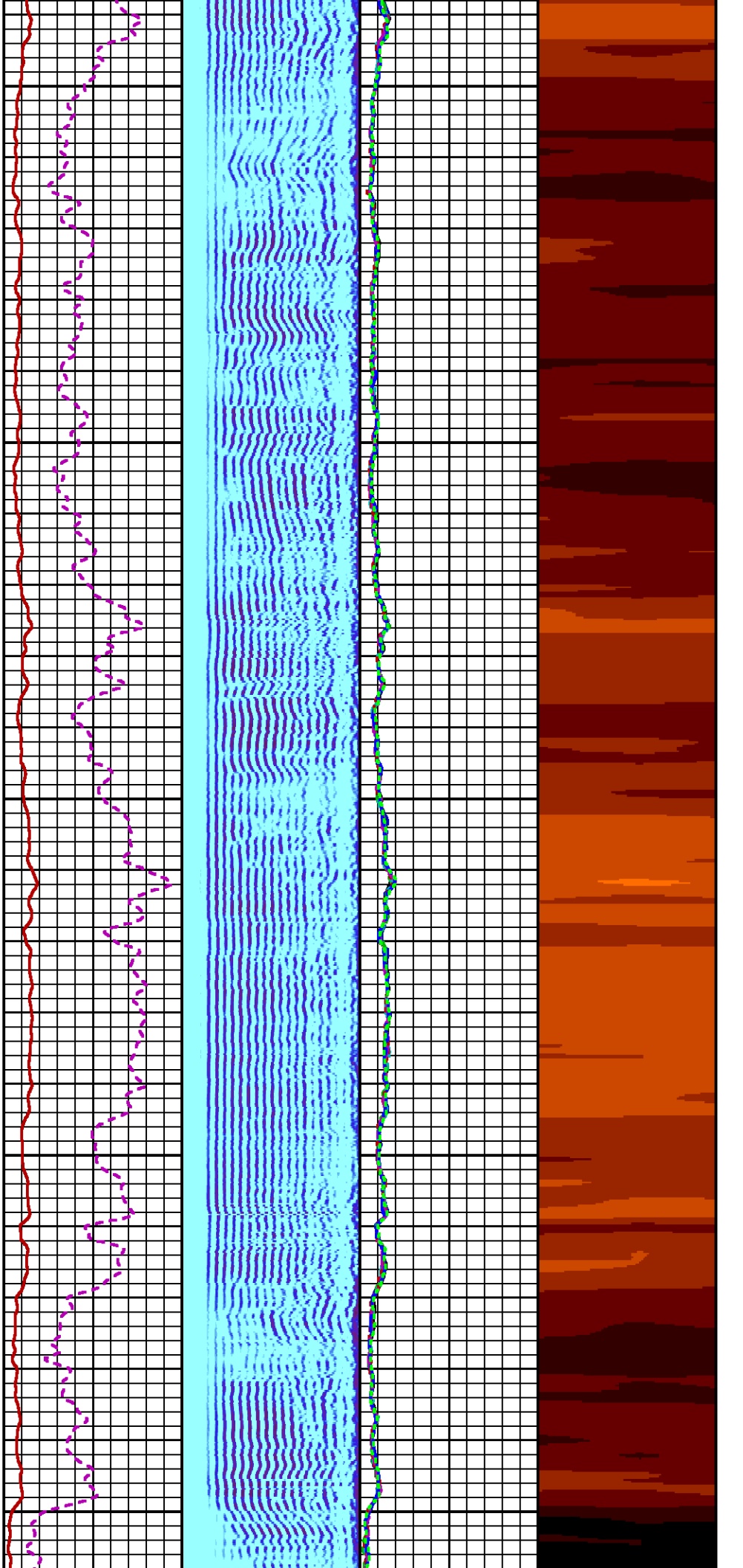




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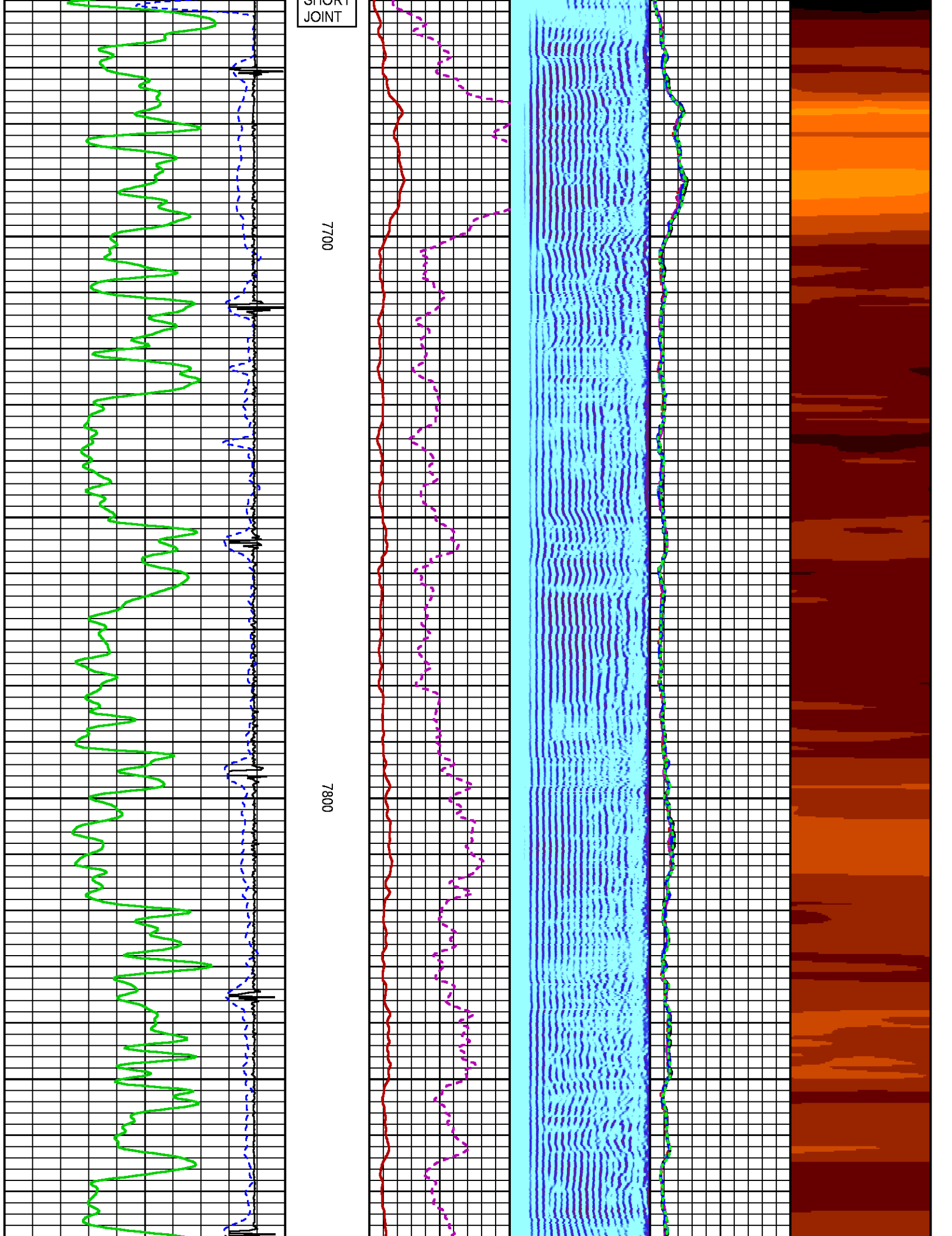
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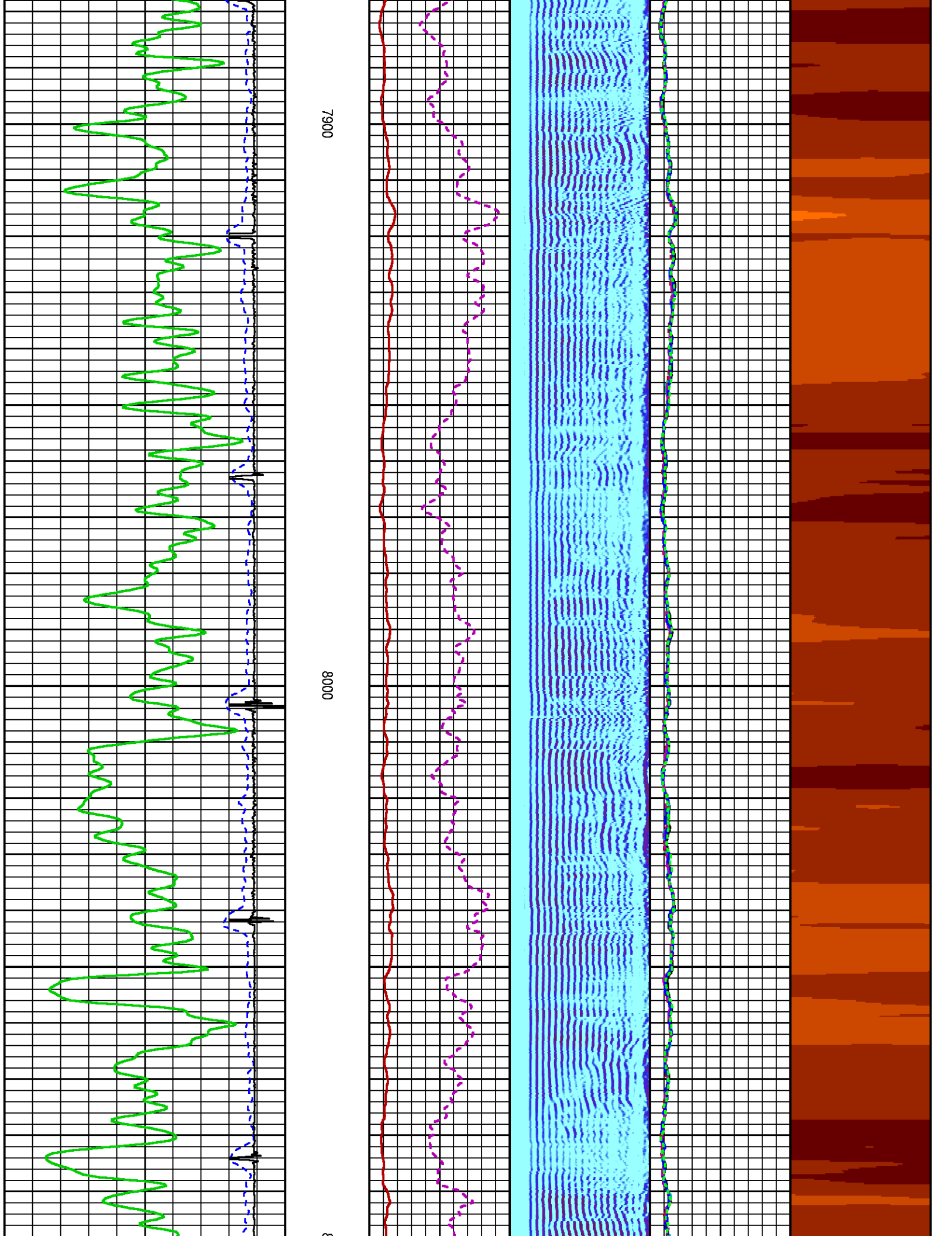


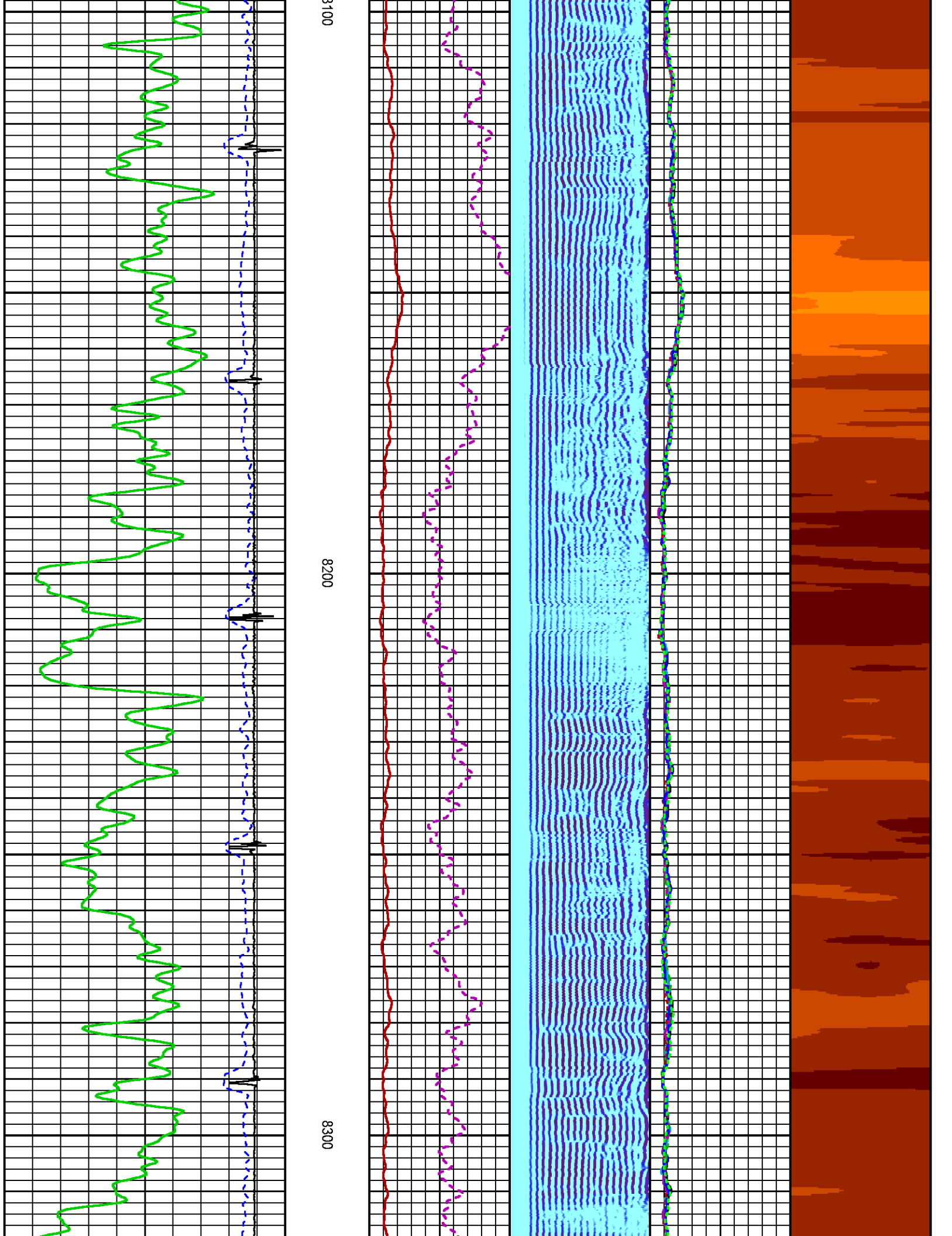
SHORT
JOINT

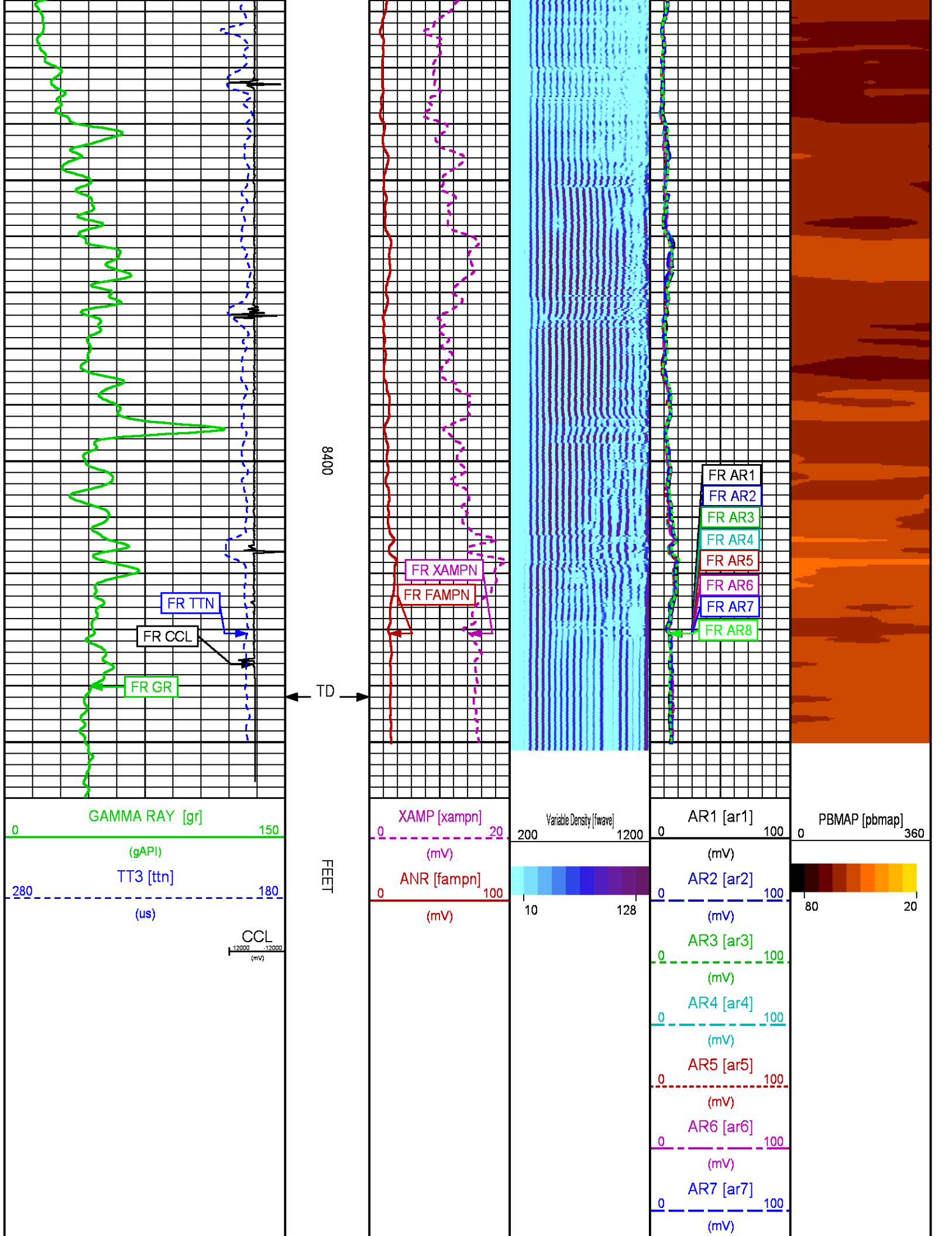
7700

7800









REPEAT PRESENTATION 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
Updates: 1 Patches: 8
Plotted: Fri Oct 30 11:15:56 2015

PARAMETER AND FILTER SUMMARY REPORT

<div>FILE: /dat1a/CH100606/n012g02.prm</div> <div>LOGGING MODE: DEPTH DIRECTION: UP</div> <div>TOP DEPTH: 1988.750 ft BOTTOM DEPTH: 2204.750 ft</div>					
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*)	182	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*)	-72	us	"	"
	TOOL DELAY (str2*)	-72	us	"	"
	TOOL DELAY (str3*)	-72	us	"	"
	TOOL DELAY (str4*)	-72	us	"	"
	TOOL DELAY (str5*)	-72	us	"	"
	TOOL DELAY (str6*)	-72	us	"	"
	TOOL DELAY (str7*)	-72	us	"	"
	TOOL DELAY (str8*)	-72	us	"	"
	TOOL DELAY (strn*)	-72	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"
PERCENT BOND CEMENT MAP					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"

	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"
	FREE AMP REC 5	80	mV	"	"
	FREE AMP REC 6	80	mV	"	"
	FREE AMP REC 7	80	mV	"	"
	FREE AMP REC 8	80	mV	"	"
RAL FULL BOND AMPLITUDE	FULL BOND AMP REC 1	2	mV	"	"
	FULL BOND AMP REC 2	2	mV	"	"
	FULL BOND AMP REC 3	2	mV	"	"
	FULL BOND AMP REC 4	2	mV	"	"
	FULL BOND AMP REC 5	2	mV	"	"
	FULL BOND AMP REC 6	2	mV	"	"
	FULL BOND AMP REC 7	2	mV	"	"
	FULL BOND AMP REC 8	2	mV	"	"

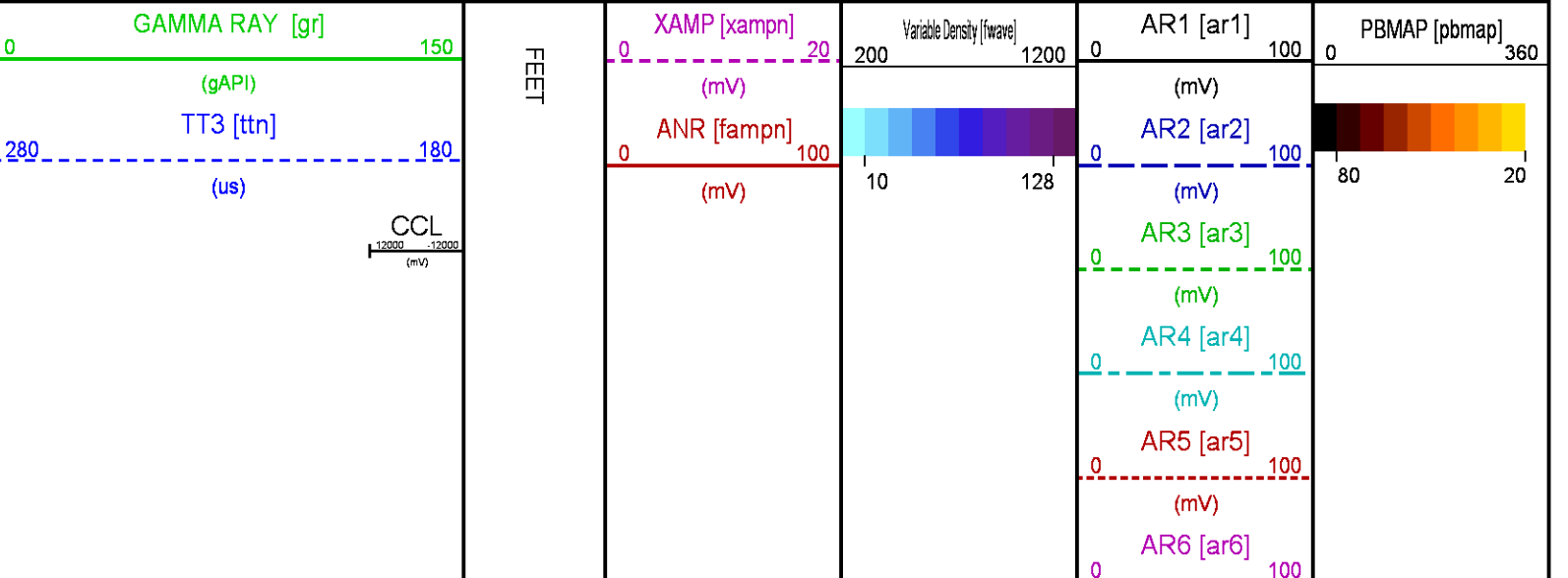
CURVE DESCRIPTION REPORT

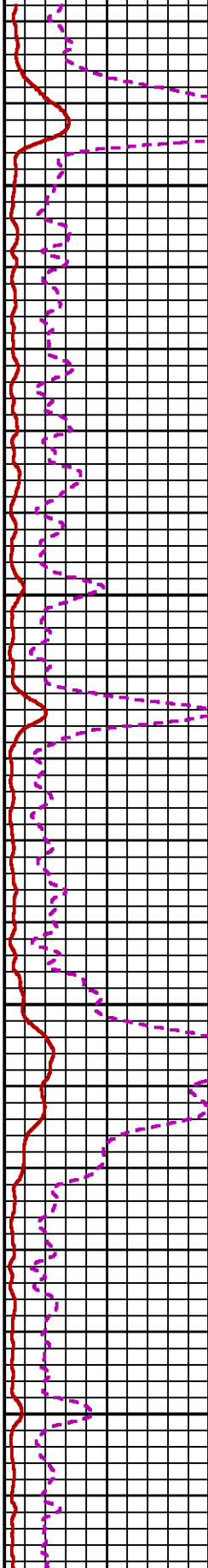
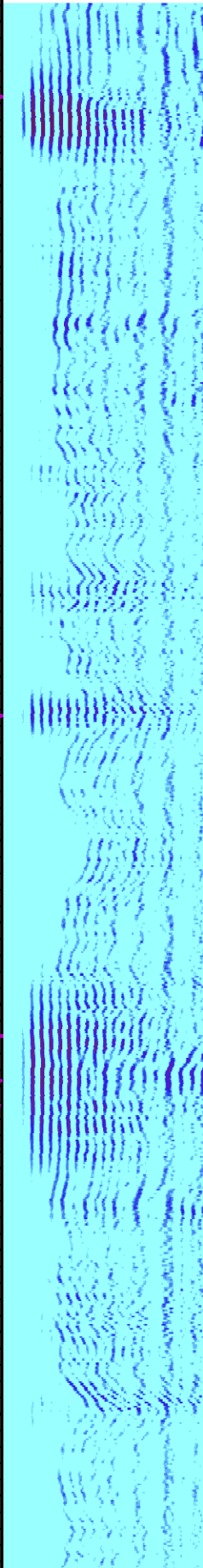
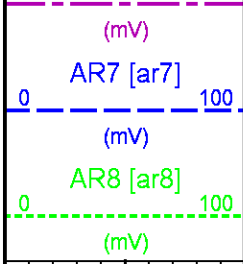
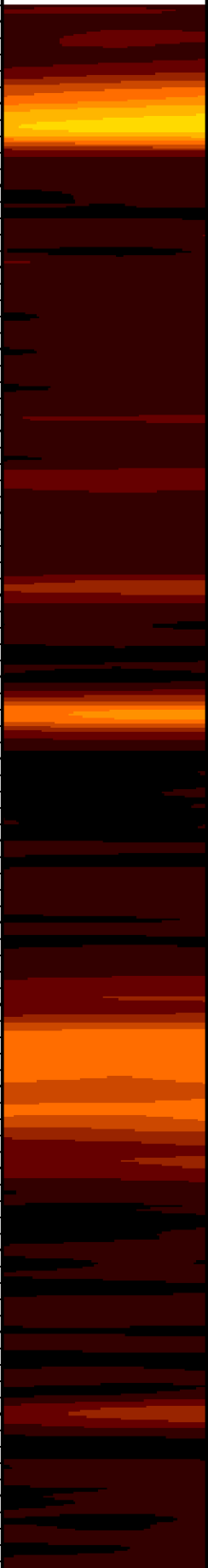
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Oct 29 15:41:58 2015	FIXED GATE AMPLITUDE T-R1
F1:AR2	Oct 29 15:41:58 2015	FIXED GATE AMPLITUDE T-R2
F1:AR3	Oct 29 15:41:58 2015	FIXED GATE AMPLITUDE T-R3
F1:AR4	Oct 29 15:41:58 2015	FIXED GATE AMPLITUDE T-R4
F1:AR5	Oct 29 15:41:58 2015	FIXED GATE AMPLITUDE T-R5
F1:AR6	Oct 29 15:41:58 2015	FIXED GATE AMPLITUDE T-R6
F1:AR7	Oct 29 15:41:58 2015	FIXED GATE AMPLITUDE T-R7
F1:AR8	Oct 29 15:41:58 2015	FIXED GATE AMPLITUDE T-R8
F1:CCL	Oct 29 15:41:58 2015	CASING COLLAR LOCATOR
F1:FAMPN	Oct 29 15:41:58 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Oct 29 15:41:58 2015	FAR WAVE FORM
F1:GR	Oct 29 15:41:58 2015	GAMMA RAY
F1:PBMAP	Oct 29 15:41:58 2015	PERCENT BOND CEMENT MAP
F1:TTN	Oct 29 15:41:58 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Oct 29 15:41:58 2015	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		

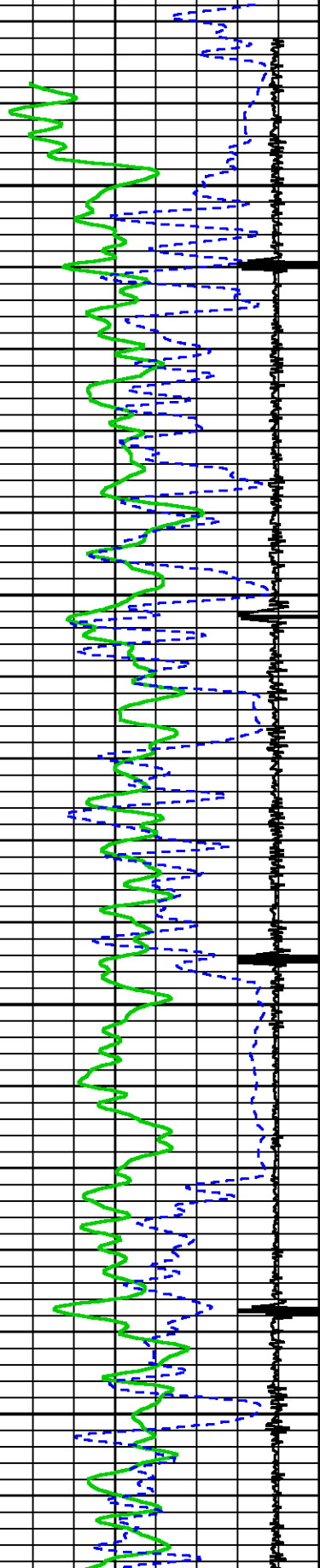
Presentation	: cas6685:/dat1a/CH100606/LARAMIE_CBLREPEAT.fvpdf [5"/100' Scale]
Plot Interval	: 1977.75 - 2203.5 Feet
Data File 1	: F1 : cas6685:/dat1a/CH100606/n012g02_REPEAT.xtf
Created On	: Oct 29 15:41:58 2015
Company	: LARAMIE ENERGY
Well	: PICEANCE FEDERAL 28-21E
Field	: VEGA
File Interval	: 1976.75 - 2204.75 Feet
OCT	: n012g

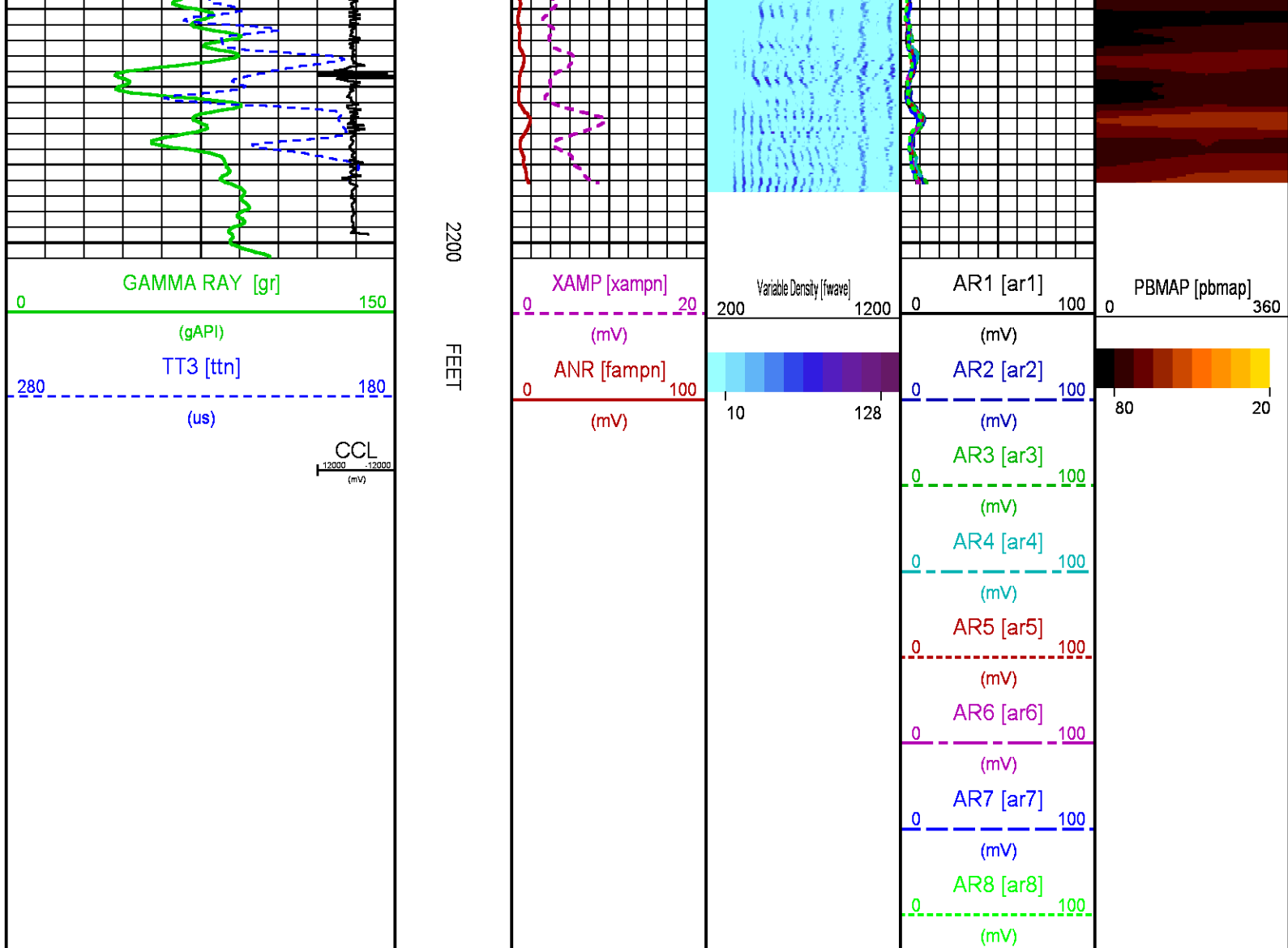




2000

2100





CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH100606/n012g.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10154957

DATE/TIME PERFORMED: Thu Oct 29 08:40:49 2015

UNIT #: 3885TC 6685

	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)	-0.10	-0.42	-0.14	-0.41	-0.19	-0.29	-0.76	-0.39	-0.21	2.14	-0.11
AMP FLUID (mV)	107	106	106	106	105	107	107	108	106	144	105
TT (us)	217	217	217	216	216	216	216	216	218	325	218
M FACTOR	0.94	0.94	0.94	0.94	0.95	0.93	0.92	0.92	0.94	1.06	0.95

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #:	1426XA 10154957	DATE/TIME PERFORMED:	Thu Oct 29 08:42:14 2015	DAYS SINCE CAL:	0
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UNIT #:	3885TC 6685	CABLE #:	6685sm 6685sm
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	NEAR (mV)	R1 (mV)	R2 (mV)	R3 (mV)	R4 (mV)	R5 (mV)	R6 (mV)	R7 (mV)	R8 (mV)	FAR (mV)	CAL (mV)
ZERO	-0.57	-1.01	-0.90	-0.83	-0.97	-0.83	-0.80	-0.95	-0.83	-0.68	-0.00
AMP AIR	1.55	1.94	1.77	1.72	1.96	1.85	1.68	1.95	1.99	1.94	99.57

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
0.95	0.00	1.00

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 12670181 DATE/TIME PERFORMED: Wed Oct 21 13:23:22 2015

UNIT #: 3885TC 6685 CALB JIG #: 4702NK BA-905

	BACKGROUND (cts)	CALBRTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	81.51	297.38	215.9	0.695	56.64	206.64	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1355XA 12670181 DATE/TIME PERFORMED: Wed Oct 21 13:24:55 2015

UNIT #: 3885TC 6685 VERI JIG #: 4702NK BA-905

	BACKGROUND (cts)	CALBRTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	81.82	299.20	0.695	56.86	207.91	151.05

INSTRUMENT CONFIGURATION

Source File: /dat1a/CH100606/n012g--ldg

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

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

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



20.38'



NEAR RCVR 11.17'

FAR RCVR 10.21'

CCL 5.79'

GR 1.67'

TEMP 0.17'

 BAKER HUGHES 	COMPANY <u>LARAMIE ENERGY</u> WELL <u>PICEANCE FEDERAL 28-21E</u> FIELD <u>VEGA</u> COUNTY <u>MESA</u> STATE <u>CO</u>	FILE NO: <u>CH100606</u> API NO: <u>05077102500000</u>	
	LOCATION: SHL: 1981' FSL 2484' FWL BHL: 113' FSL 881' FEL SEC <u>28</u> TWP <u>9S</u> RGE <u>93W</u>	ELEVATIONS: KB 7701 FT DF GL 7679 FT DATE <u>29-Oct-2015</u>	SEC 28 T9S R93W PAD 28-10 PATTERSON 306