



FILE NO:

COMPANY

LARAMIE ENERGY

WELL

GUNDERSON 20-05W

FIELD

VEGA

API NO:
05077103390000

COUNTY

MESA

STATE COLORADO

Ver. 4.06

LOCATION:

LAT:39.266864N;LONG:107.795317W

OTHER SERVICES
RPMBHL: LAT:39.266479N;LONG:107.797721W
SEC 20 TWP 9S RGE 93WPERMANENT DATUM GL ELEVATION 7144 FT
LOG MEASURED FROM KB 30 FT ABOVE P.D.
DRILL. MEAS. FROM KBELEVATIONS:
KB 7176 FT
DF 7176 FT
GL 7146 FT

DATE 25-AUG-2017

RUN TRIP

1 1

SERVICE ORDER US125426

DEPTH DRILLER 7504 FT

DEPTH LOGGER 7434 FT

BOTTOM LOGGED INTERVAL 7434 FT

TOP LOGGED INTERVAL 30 FT

TIME STARTED 13:30

TIME FINISHED 15:30

OPERATOR RIG TIME 2 HOURS

TYPE OF FLUID IN HOLE WATER

FLUID DENSITY NA

FLUID SALINITY NA

FLUID LEVEL 54 FT

LOGGED CEMENT TOP 1566 FT

WELLHEAD PRESSURE 0 PSI

MAXIMUM HOLE DEVIATION NA

NOMINAL LOGGING SPEED 100 F/MN

MAX. RECORDED TEMP. 243 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: 5642' - 5663'

SJ: 6638' - 6650'

CREW: D.HUTCHINSON, G.SUAREZ

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: Fri Aug 25 16:00:17 2017

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/LARAMIE_GUNDERSON_20_05W/n012g02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 21.750 ft BOTTOM DEPTH: 7473.500 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*)	188	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	188	us	"	"
	AMP WINDOW START (fgp3*)	188	us	"	"
	AMP WINDOW START (fgp4*)	188	us	"	"
	AMP WINDOW START (fgp5*)	188	us	"	"
	AMP WINDOW START (fgp6*)	188	us	"	"
	AMP WINDOW START (fgp7*)	188	us	"	"
	AMP WINDOW START (fgp8*)	188	us	"	"
	AMP WINDOW START (fgpn*)	188	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	314.000
		-63	us	314.000	980.250
		-62	us	980.250	982.250
		-61	us	982.250	1004.000
		-59	us	1004.000	3427.500
		-60	us	3427.500	3624.750
		-61	us	3624.750	3629.500
		-60	us	3629.500	3630.250
		-59	us	3630.250	4686.500
		-58	us	4686.500	4760.000
	TOOL DELAY (str2*)	-57	us	4760.000	5838.750
		-56	us	5838.750	5978.000
		-57	us	5978.000	6491.750
		-58	us	6491.750	6497.750
		-59	us	6497.750	7008.750
		-58	us	7008.750	BOTTOM
		-65	us	TOP	314.000
		-63	us	314.000	980.250
		-62	us	980.250	982.250
		-61	us	982.250	1004.000
		-59	us	1004.000	3427.500
		-60	us	3427.500	3624.750
		-61	us	3624.750	3629.500
		-60	us	3629.500	3630.250
		-59	us	3630.250	4686.500
		-58	us	4686.500	4760.000
		-57	us	4760.000	5838.750
		-56	us	5838.750	5978.000
		-57	us	5978.000	6491.750
		-58	us	6491.750	6497.750
		-59	us	6497.750	7008.750
		-58	us	7008.750	BOTTOM

TOOL DELAY (str3*)	-65	us	TOP	314.000
	-63	us	314.000	980.250
	-62	us	980.250	982.250
	-61	us	982.250	1004.000
	-59	us	1004.000	3427.500
	-60	us	3427.500	3624.750
	-61	us	3624.750	3629.500
	-60	us	3629.500	3630.250
	-59	us	3630.250	4686.500
	-58	us	4686.500	4760.000
	-57	us	4760.000	5838.750
	-56	us	5838.750	5978.000
	-57	us	5978.000	6491.750
	-58	us	6491.750	6497.750
	-59	us	6497.750	7008.750
TOOL DELAY (str4*)	-58	us	7008.750	BOTTOM
	-65	us	TOP	314.000
	-63	us	314.000	980.250
	-62	us	980.250	982.250
	-61	us	982.250	1004.000
	-59	us	1004.000	3427.500
	-60	us	3427.500	3624.750
	-61	us	3624.750	3629.500
	-60	us	3629.500	3630.250
	-59	us	3630.250	4686.500
	-58	us	4686.500	4760.000
	-57	us	4760.000	5838.750
	-56	us	5838.750	5978.000
	-57	us	5978.000	6491.750
	-58	us	6491.750	6497.750
TOOL DELAY (str5*)	-59	us	6497.750	7008.750
	-58	us	7008.750	BOTTOM
	-65	us	TOP	314.000
	-63	us	314.000	980.250
	-62	us	980.250	982.250
	-61	us	982.250	1004.000
	-59	us	1004.000	3427.500
	-60	us	3427.500	3624.750
	-61	us	3624.750	3629.500
	-60	us	3629.500	3630.250
	-59	us	3630.250	4686.500
	-58	us	4686.500	4760.000
	-57	us	4760.000	5838.750
	-56	us	5838.750	5978.000
	-57	us	5978.000	6491.750
	-58	us	6491.750	6497.750
TOOL DELAY (str6*)	-59	us	6497.750	7008.750
	-58	us	7008.750	BOTTOM
	-65	us	TOP	314.000
	-63	us	314.000	980.250
	-62	us	980.250	982.250
	-61	us	982.250	1004.000
	-59	us	1004.000	3427.500
	-60	us	3427.500	3624.750
	-61	us	3624.750	3629.500
	-60	us	3629.500	3630.250
	-59	us	3630.250	4686.500
	-58	us	4686.500	4760.000
	-57	us	4760.000	5838.750
	-56	us	5838.750	5978.000
	-57	us	5978.000	6491.750
	-58	us	6491.750	6497.750
TOOL DELAY (str7*)	-59	us	6497.750	7008.750
	-58	us	7008.750	BOTTOM
	-65	us	TOP	314.000
	-63	us	314.000	980.250
	-62	us	980.250	982.250
	-61	us	982.250	1004.000
	-59	us	1004.000	3427.500
	-60	us	3427.500	3624.750
	-61	us	3624.750	3629.500
	-60	us	3629.500	3630.250
	-59	us	3630.250	4686.500
	-58	us	4686.500	4760.000
	-57	us	4760.000	5838.750
	-56	us	5838.750	5978.000
	-57	us	5978.000	6491.750
	-58	us	6491.750	6497.750
TOOL DELAY (str8*)	-59	us	6497.750	7008.750
	-58	us	7008.750	BOTTOM
	-65	us	TOP	314.000
	-63	us	314.000	980.250
	-62	us	980.250	982.250
	-61	us	982.250	1004.000
	-59	us	1004.000	3427.500
	-60	us	3427.500	3624.750
	-61	us	3624.750	3629.500
	-60	us	3629.500	3630.250
	-59	us	3630.250	4686.500
	-58	us	4686.500	4760.000
	-57	us	4760.000	5838.750
	-56	us	5838.750	5978.000
	-57	us	5978.000	6491.750
	-58	us	6491.750	6497.750
TOOL DELAY (str9*)	-59	us	6497.750	7008.750
	-58	us	7008.750	BOTTOM
	-65	us	TOP	314.000
	-63	us	314.000	980.250
	-62	us	980.250	982.250

		TOOL DELAY (slim)	-65	us	TOP	314.000	980.250
			-63	us		980.250	982.250
			-61	us		982.250	1004.000
			-59	us		1004.000	3427.500
			-60	us		3427.500	3624.750
			-61	us		3624.750	3629.500
			-60	us		3629.500	3630.250
			-59	us		3630.250	4686.500
			-58	us		4686.500	4760.000
			-57	us		4760.000	5838.750
			-56	us		5838.750	5978.000
			-57	us		5978.000	6491.750
			-58	us		6491.750	6497.750
			-59	us		6497.750	7008.750
			-58	us		7008.750	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	"	"

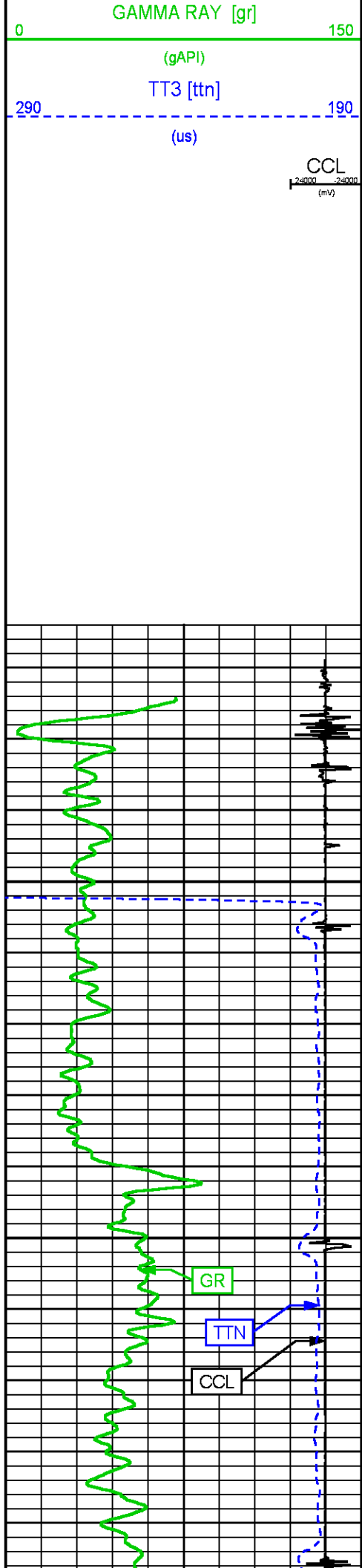
CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Aug 25 14:13:13 2017	FIXED GATE AMPLITUDE T-R1
F1:AR2	Aug 25 14:13:13 2017	FIXED GATE AMPLITUDE T-R2
F1:AR3	Aug 25 14:13:13 2017	FIXED GATE AMPLITUDE T-R3
F1:AR4	Aug 25 14:13:13 2017	FIXED GATE AMPLITUDE T-R4
F1:AR5	Aug 25 14:13:13 2017	FIXED GATE AMPLITUDE T-R5
F1:AR6	Aug 25 14:13:13 2017	FIXED GATE AMPLITUDE T-R6
F1:AR7	Aug 25 14:13:13 2017	FIXED GATE AMPLITUDE T-R7
F1:AR8	Aug 25 14:13:13 2017	FIXED GATE AMPLITUDE T-R8
F1:CCL	Aug 25 14:13:13 2017	CASING COLLAR LOCATOR
F1:FAMPN	Aug 25 14:13:13 2017	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Aug 25 14:13:13 2017	FAR WAVE FORM
F1:GR	Aug 25 14:13:13 2017	GAMMA RAY
F1:PBMAP	Aug 25 14:13:13 2017	PERCENT BOND CEMENT MAP
F1:TTN	Aug 25 14:13:13 2017	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Aug 25 14:13:13 2017	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

CURVE MEASURE POINT OFFSET

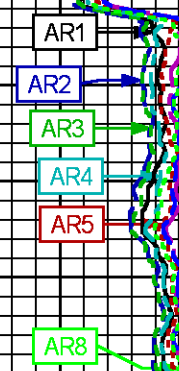
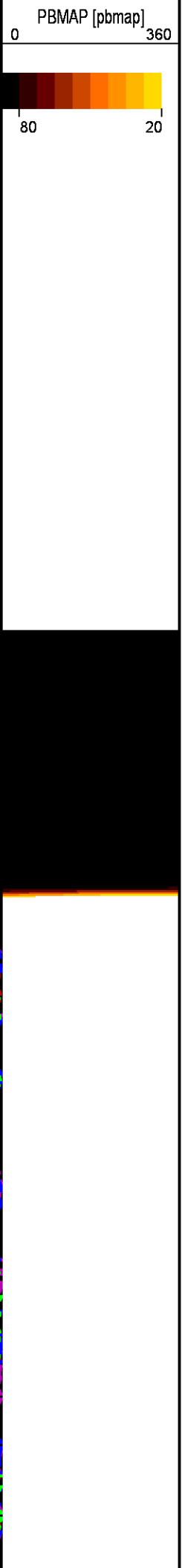
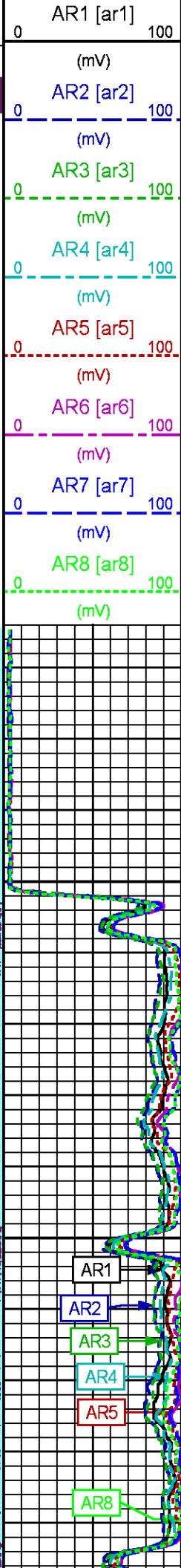
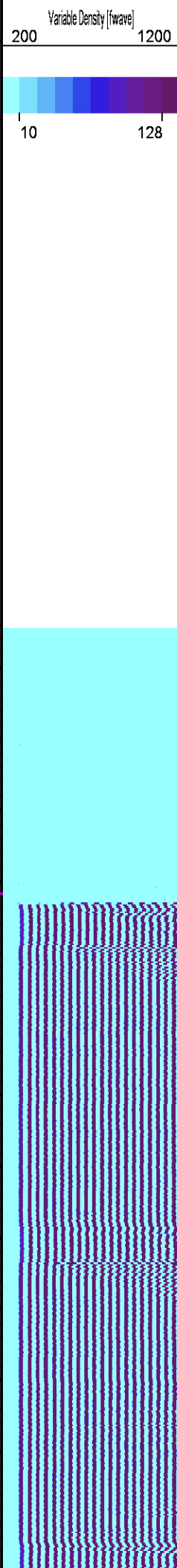
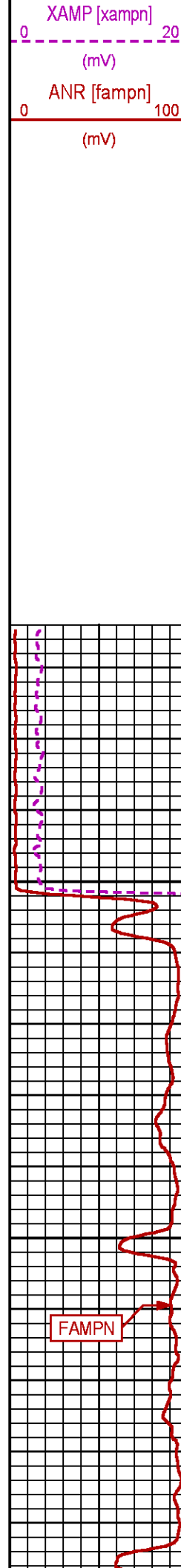
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	11.25	AR5	11.25	CCL	5.75	XAMPN	11.25
AR2	11.25	AR6	11.25	FAMPN	11.25		
AR3	11.25	AR7	11.25	GR	1.75		
AR4	11.25	AR8	11.25	TTN	11.25		

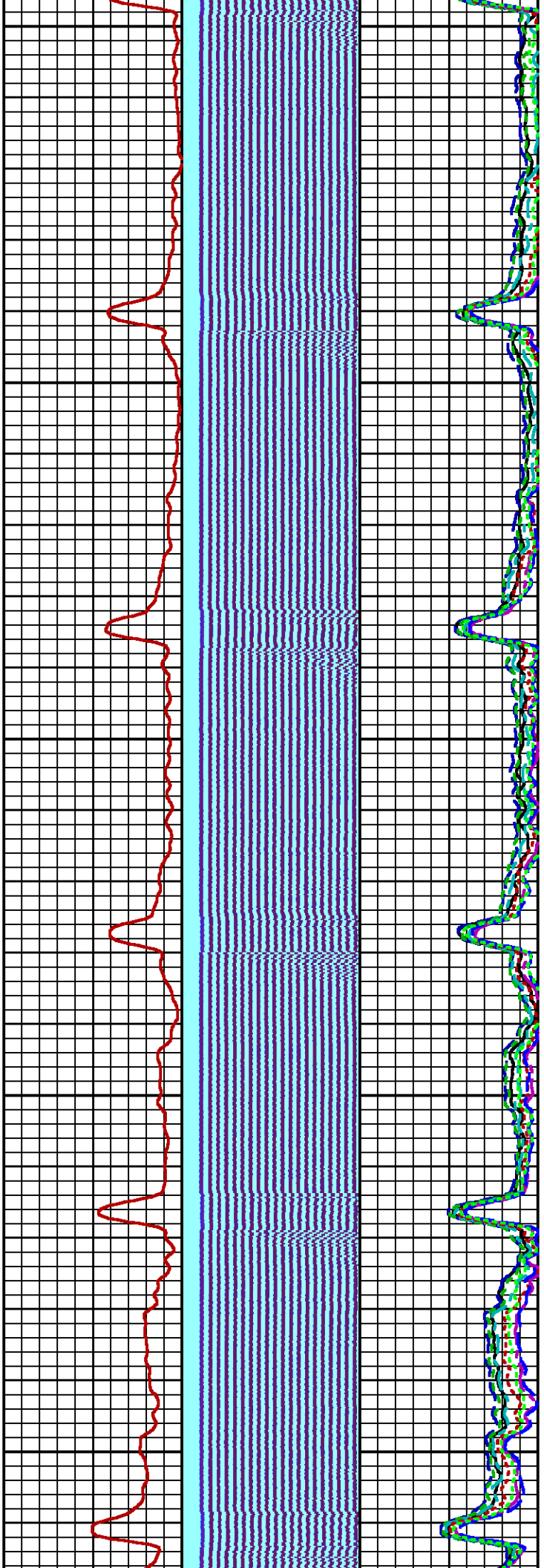
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Created On	: Aug 25 14:13:13 2017
Company	: LARAMIE ENERGY
Well	: GUNDERSON 20-05W
Field	: VEGA
File Interval	: 13.5 - 7476.75 Feet
OCT	: n012g



FEET

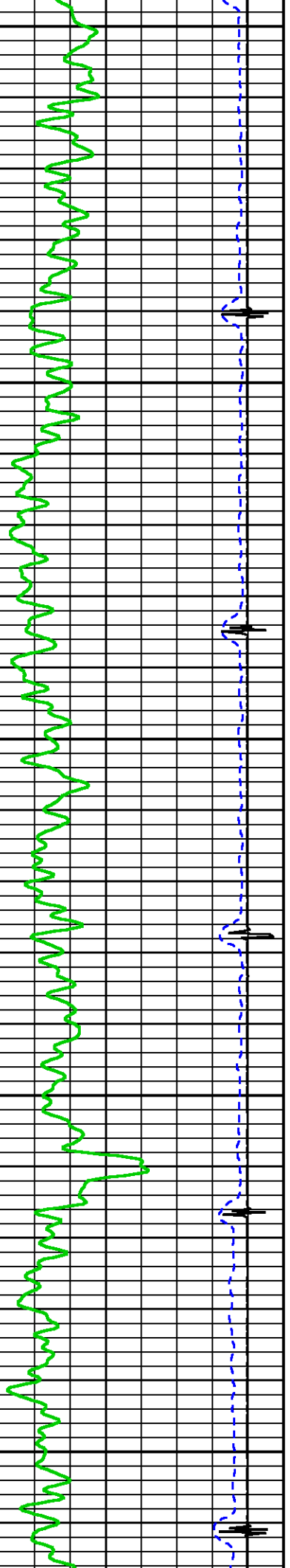
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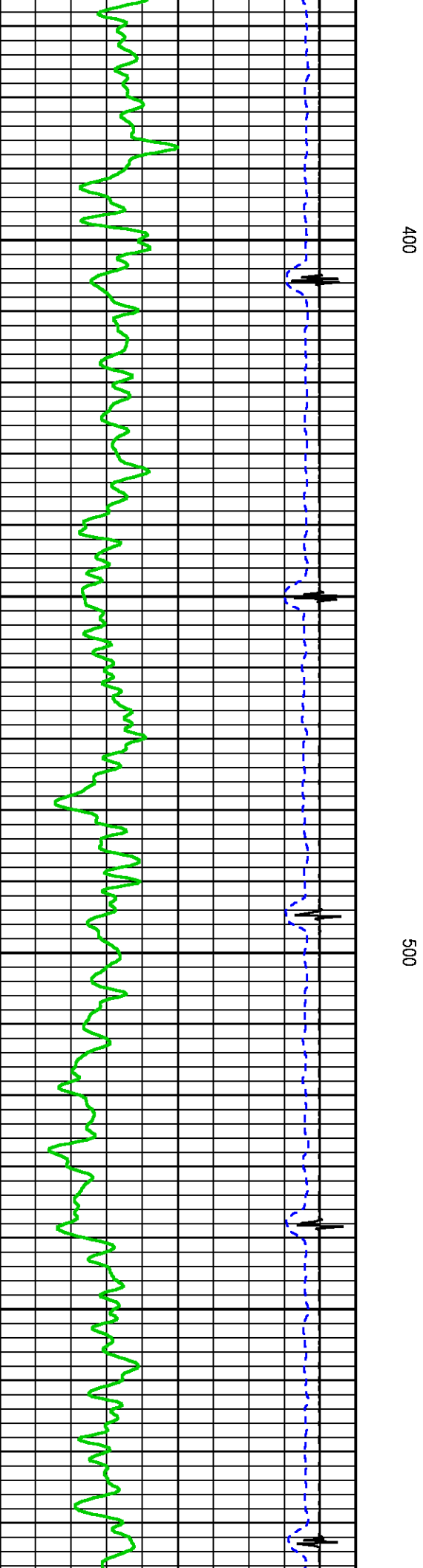
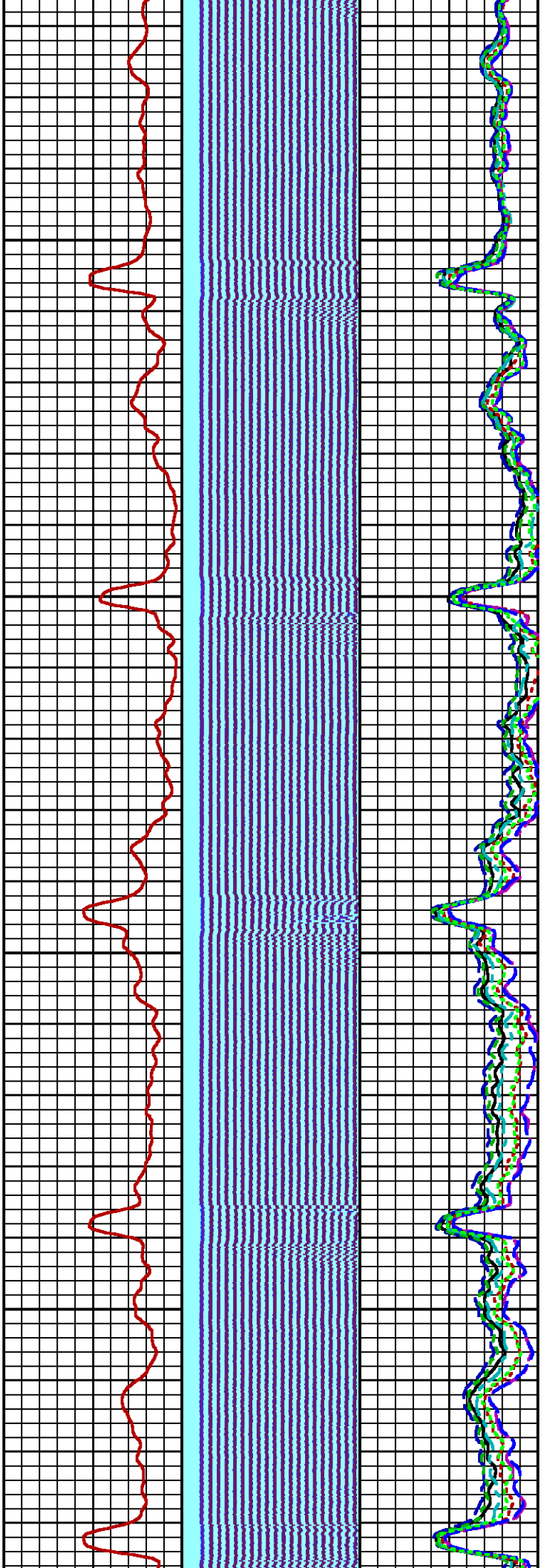


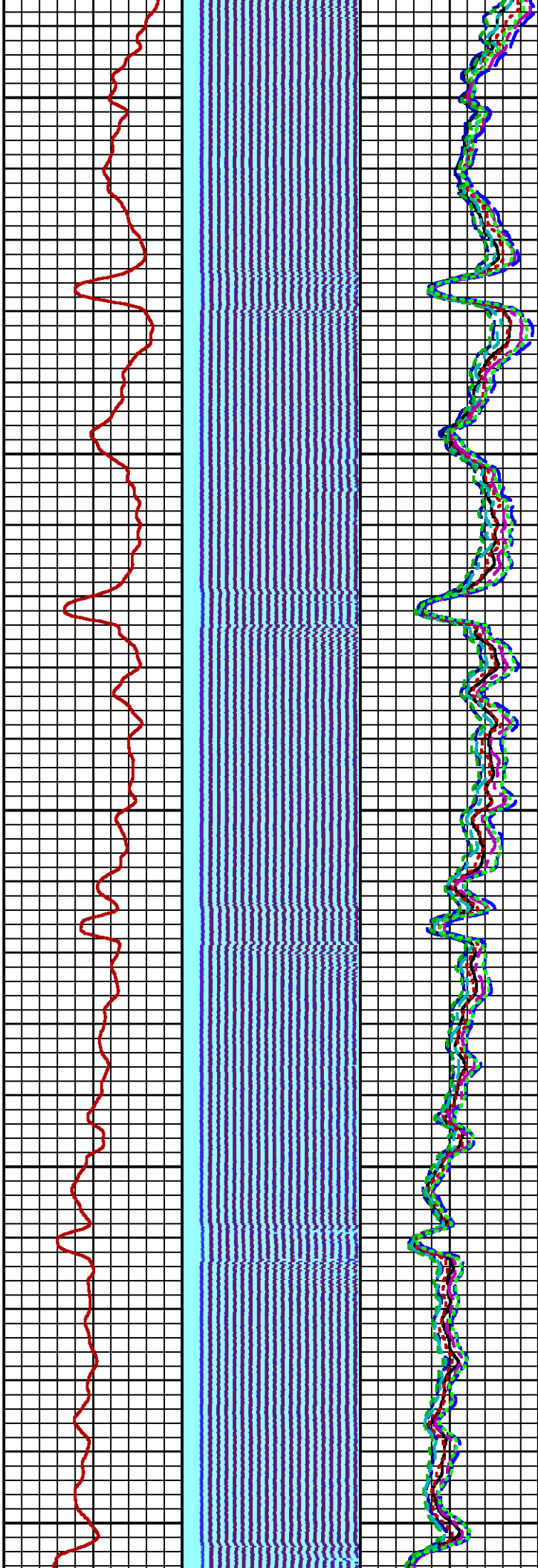
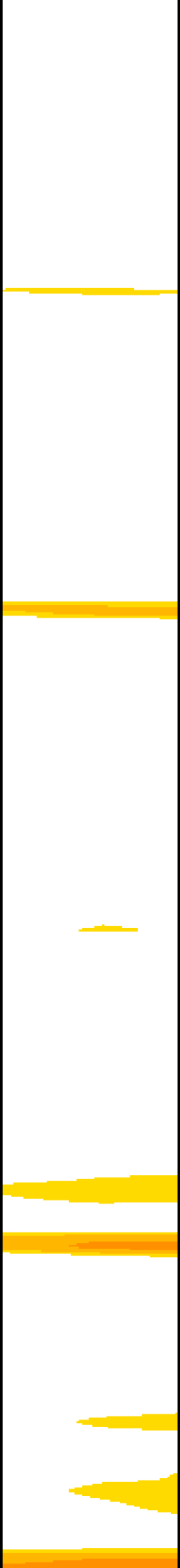


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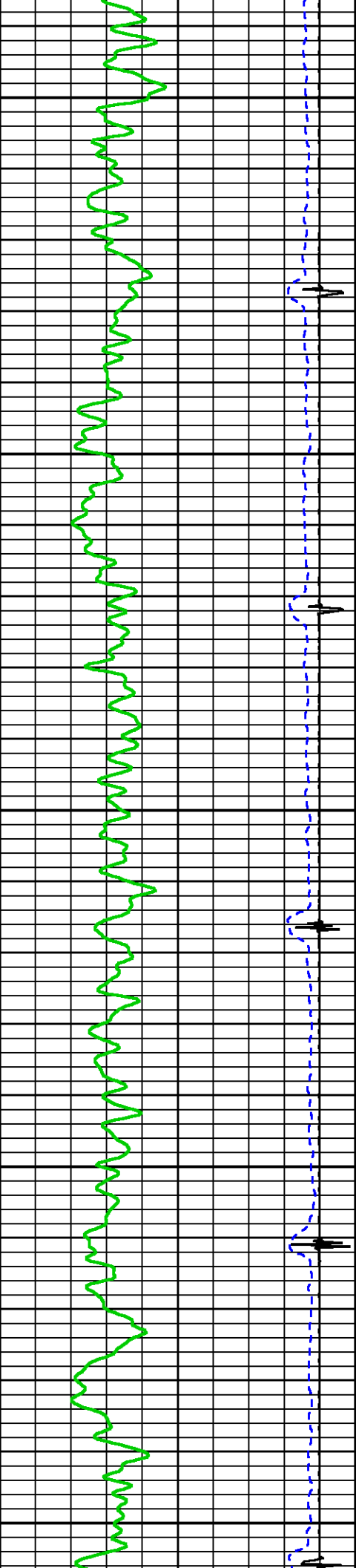


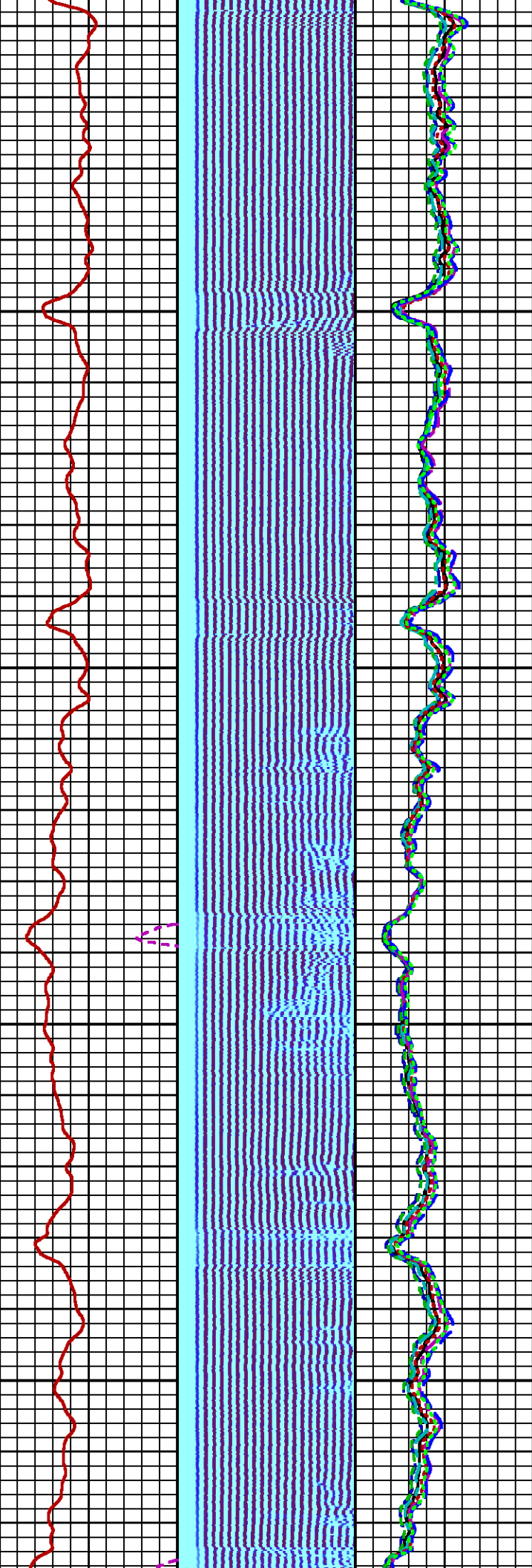
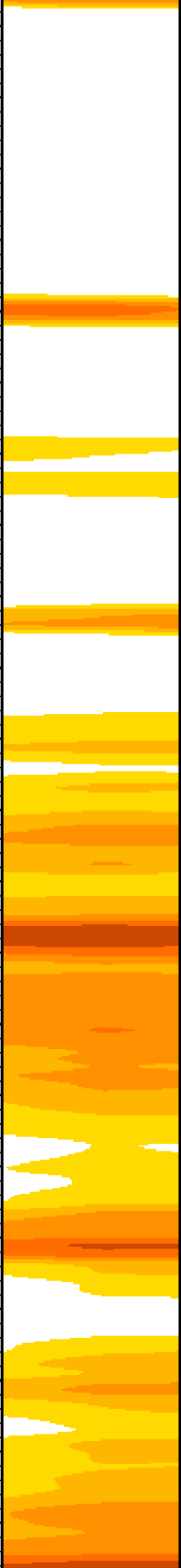


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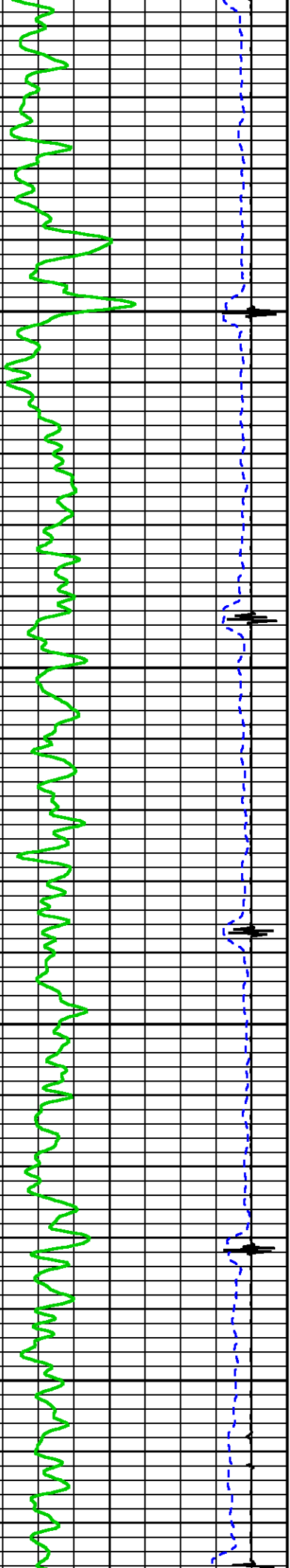
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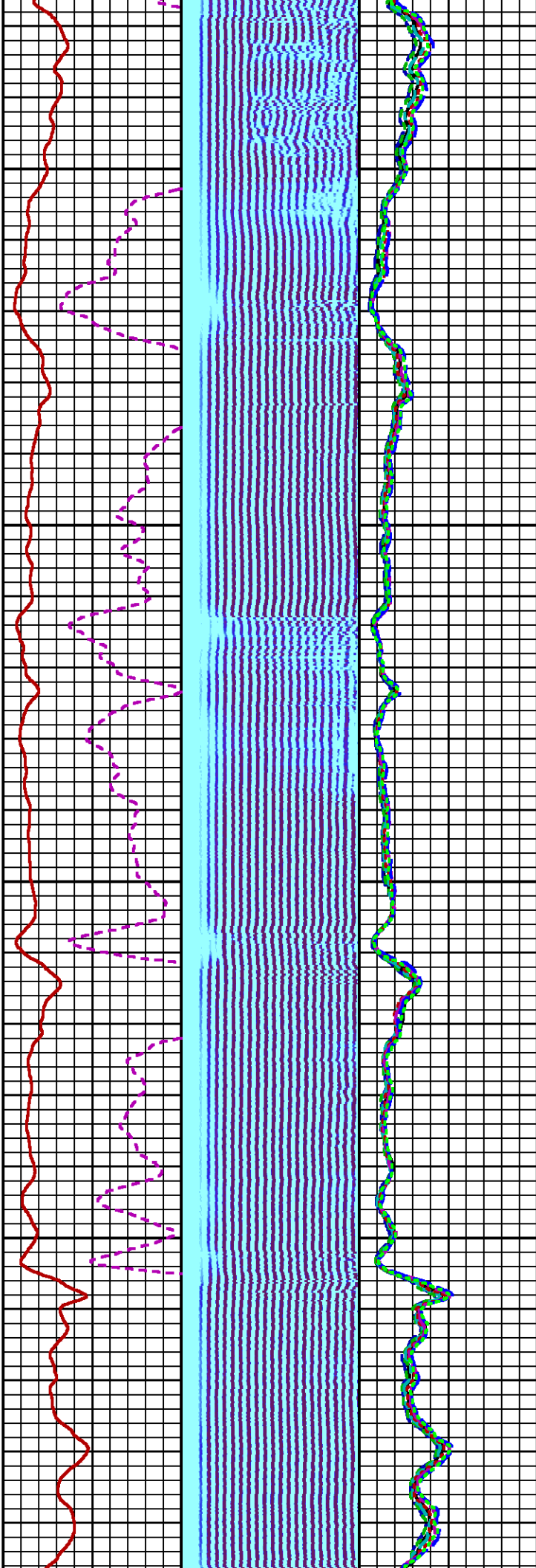
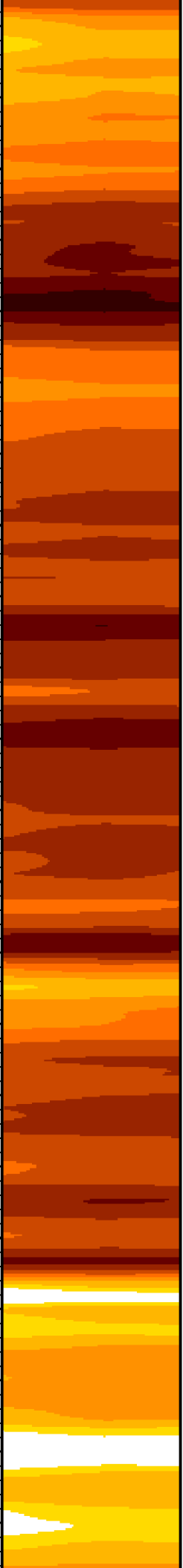




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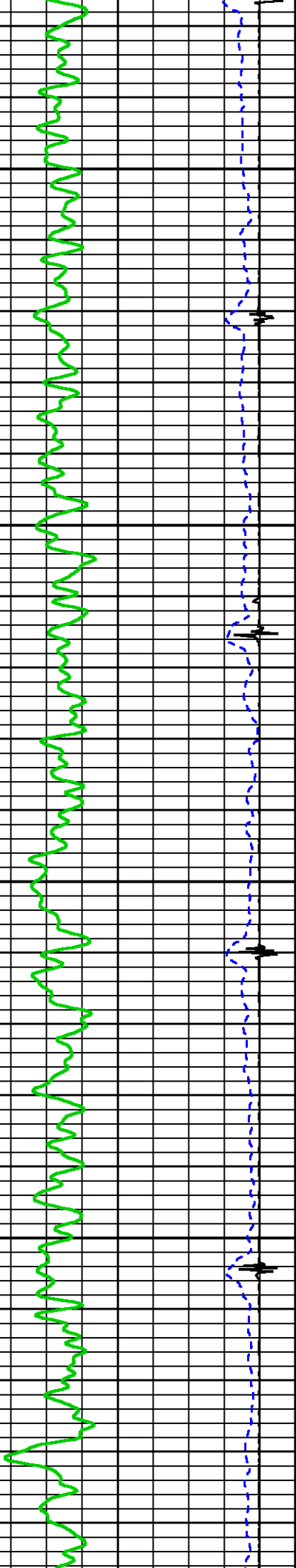
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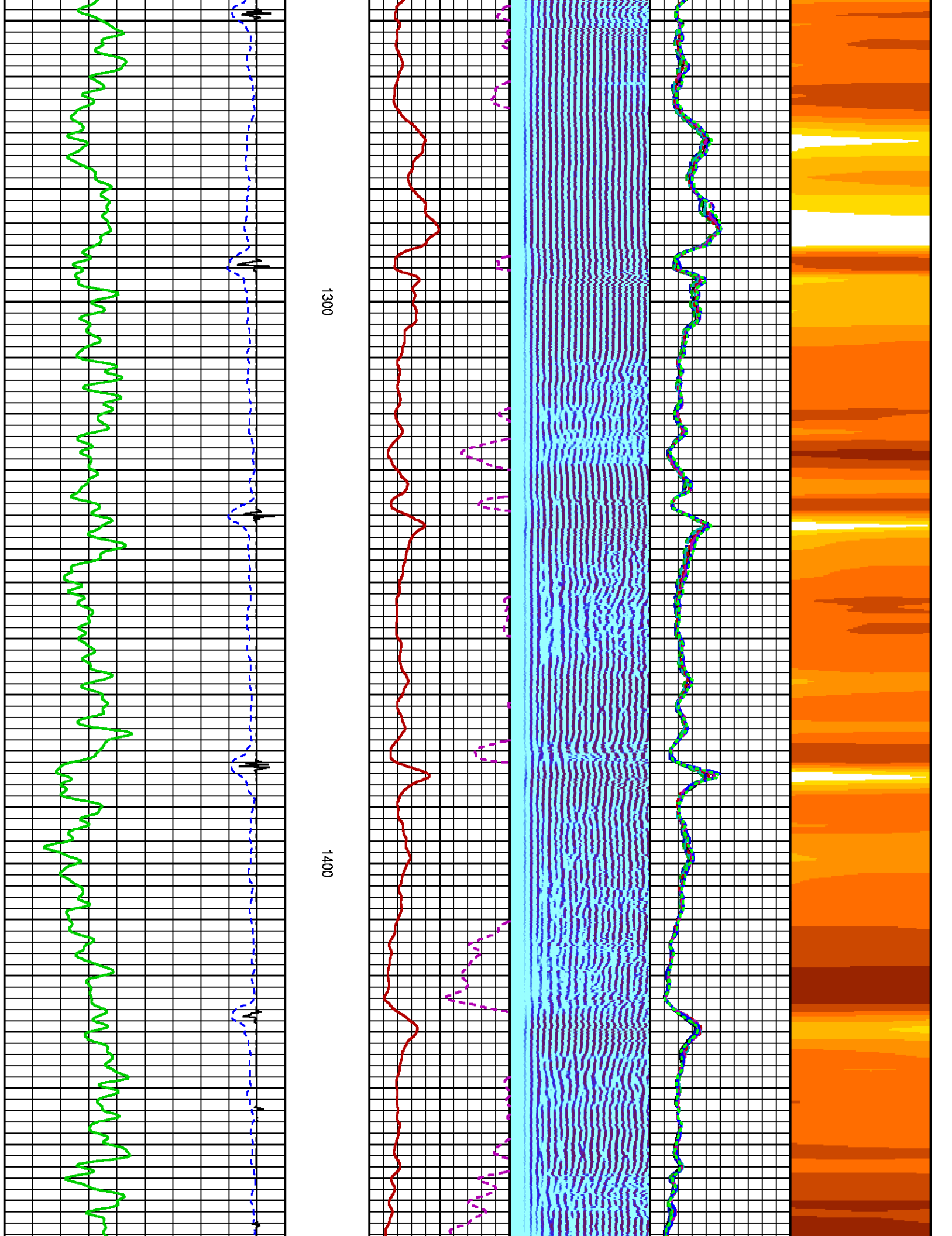


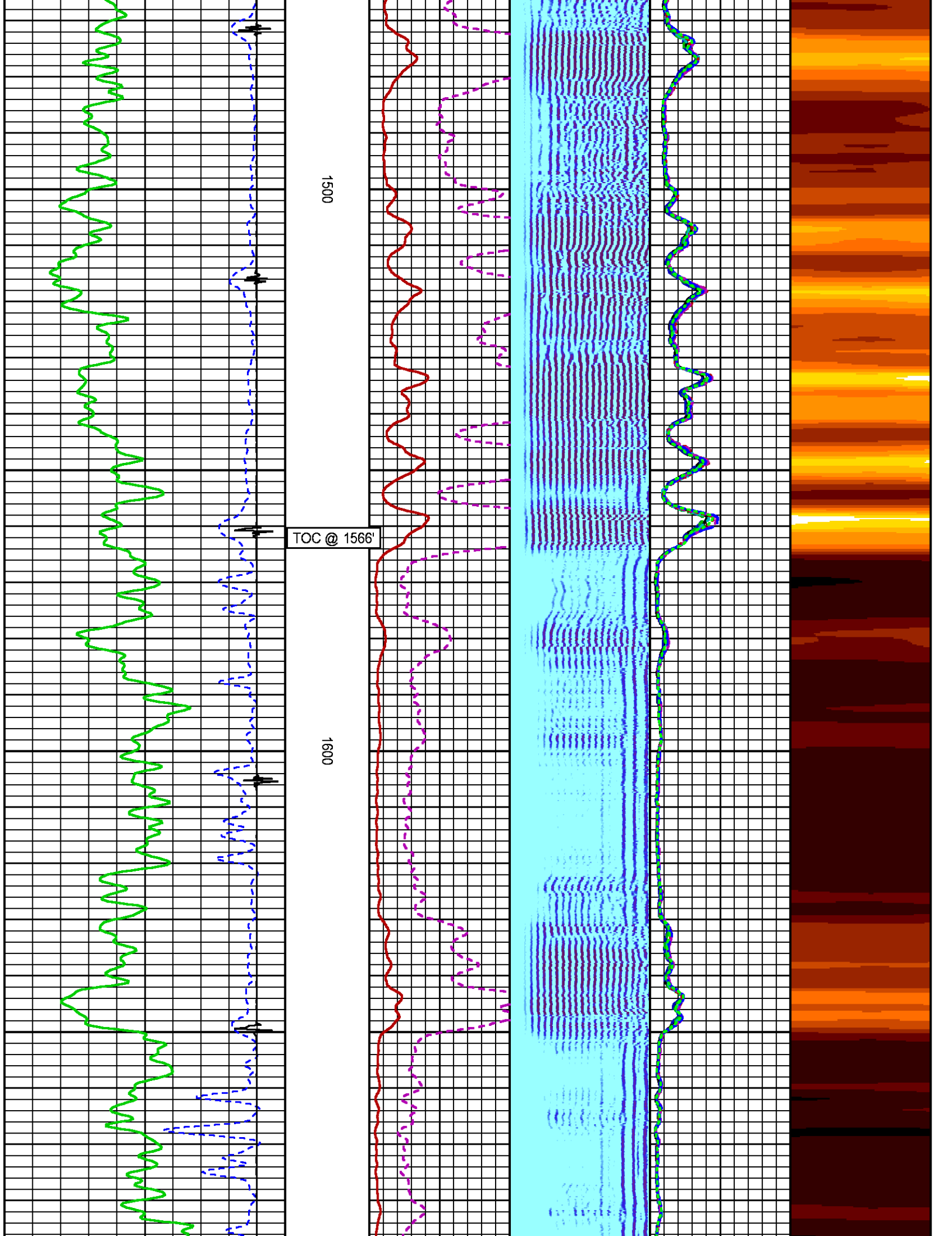


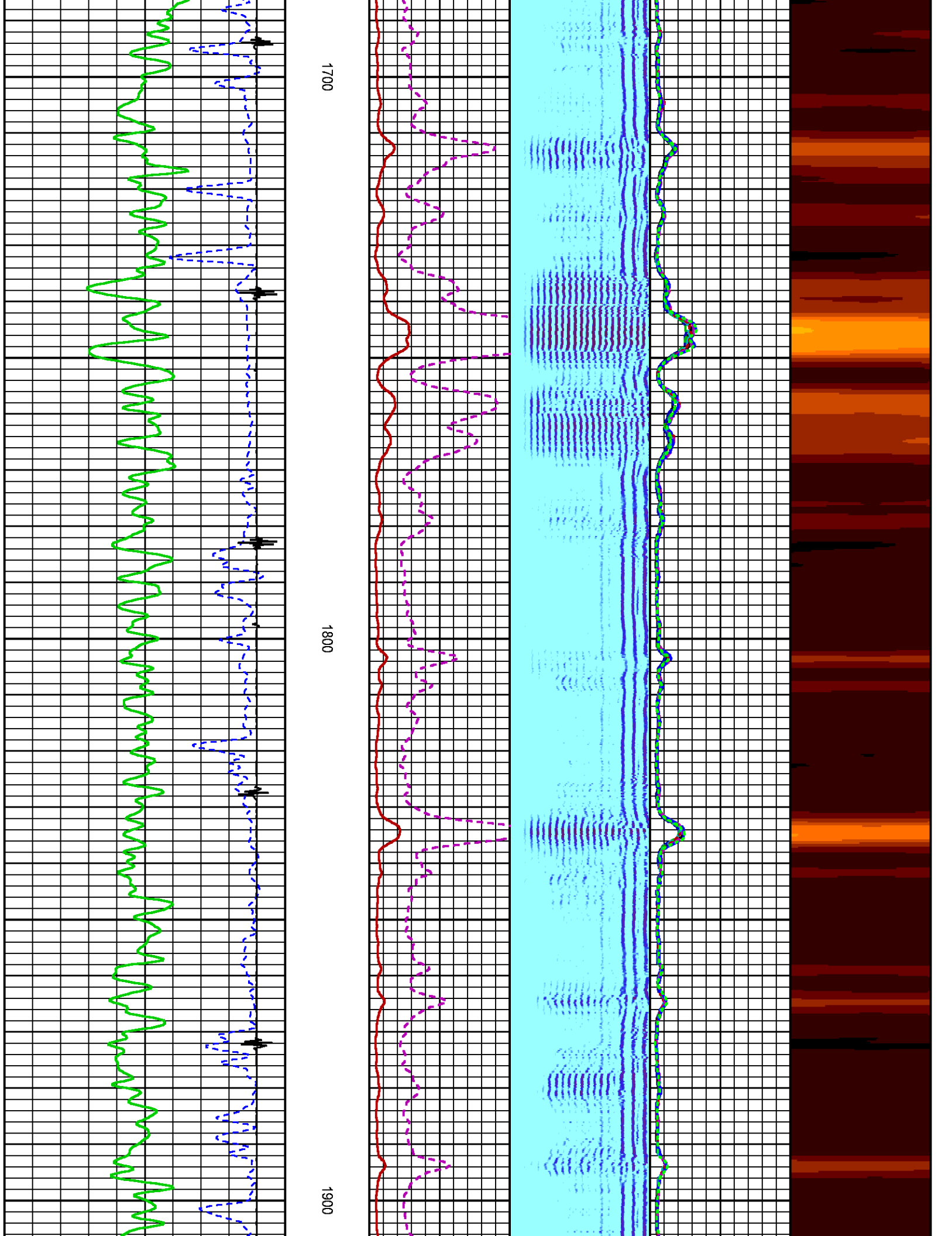
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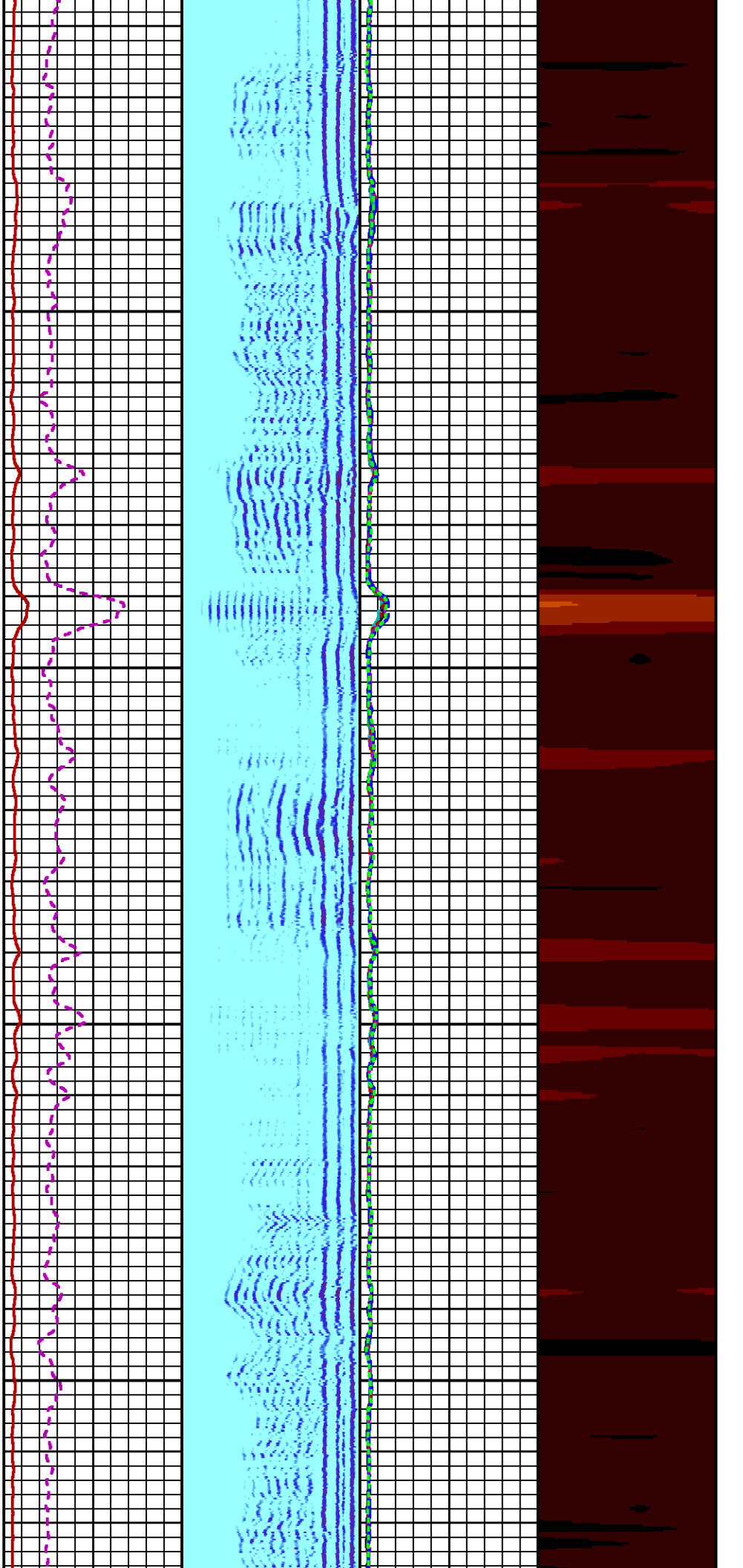
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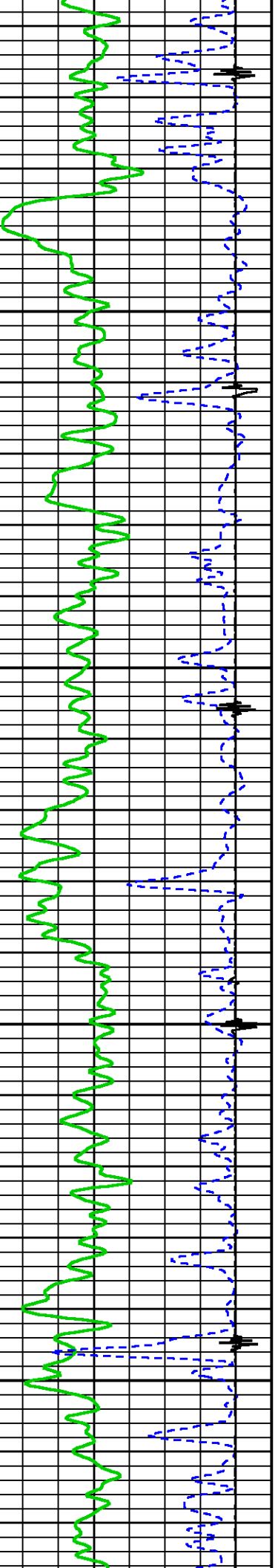


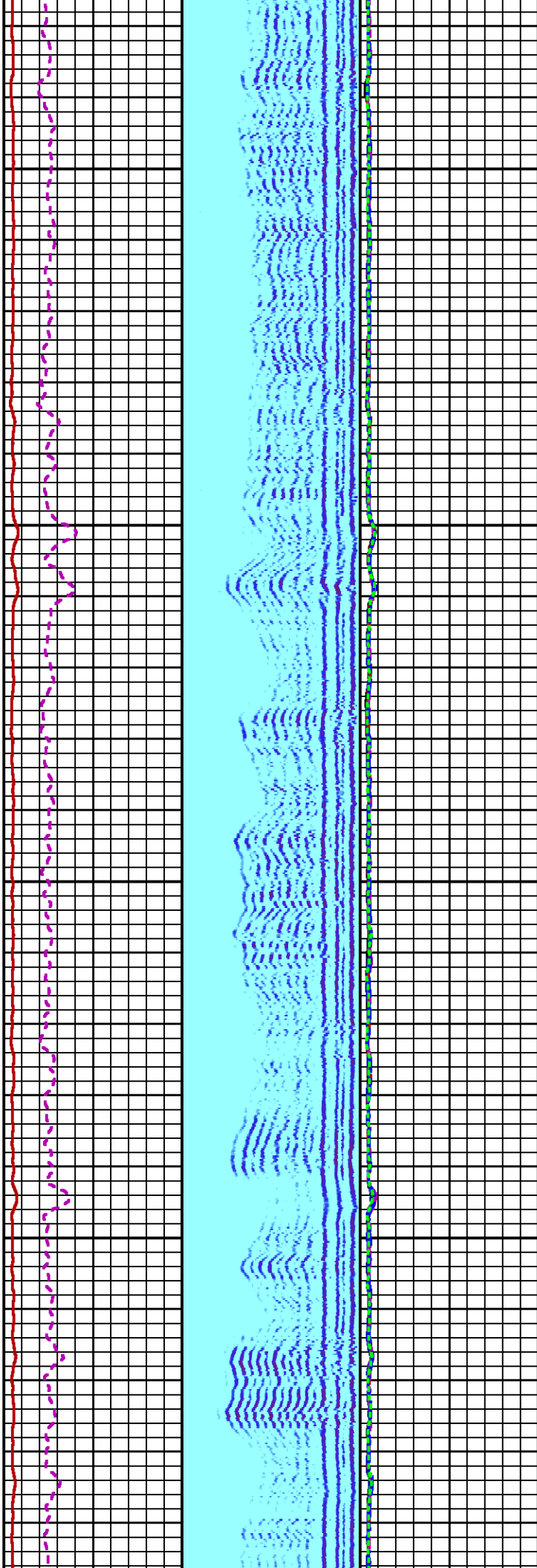




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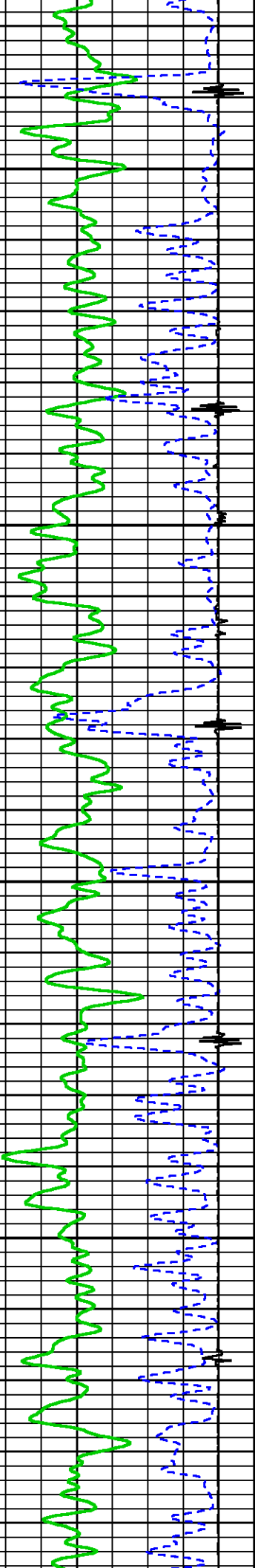
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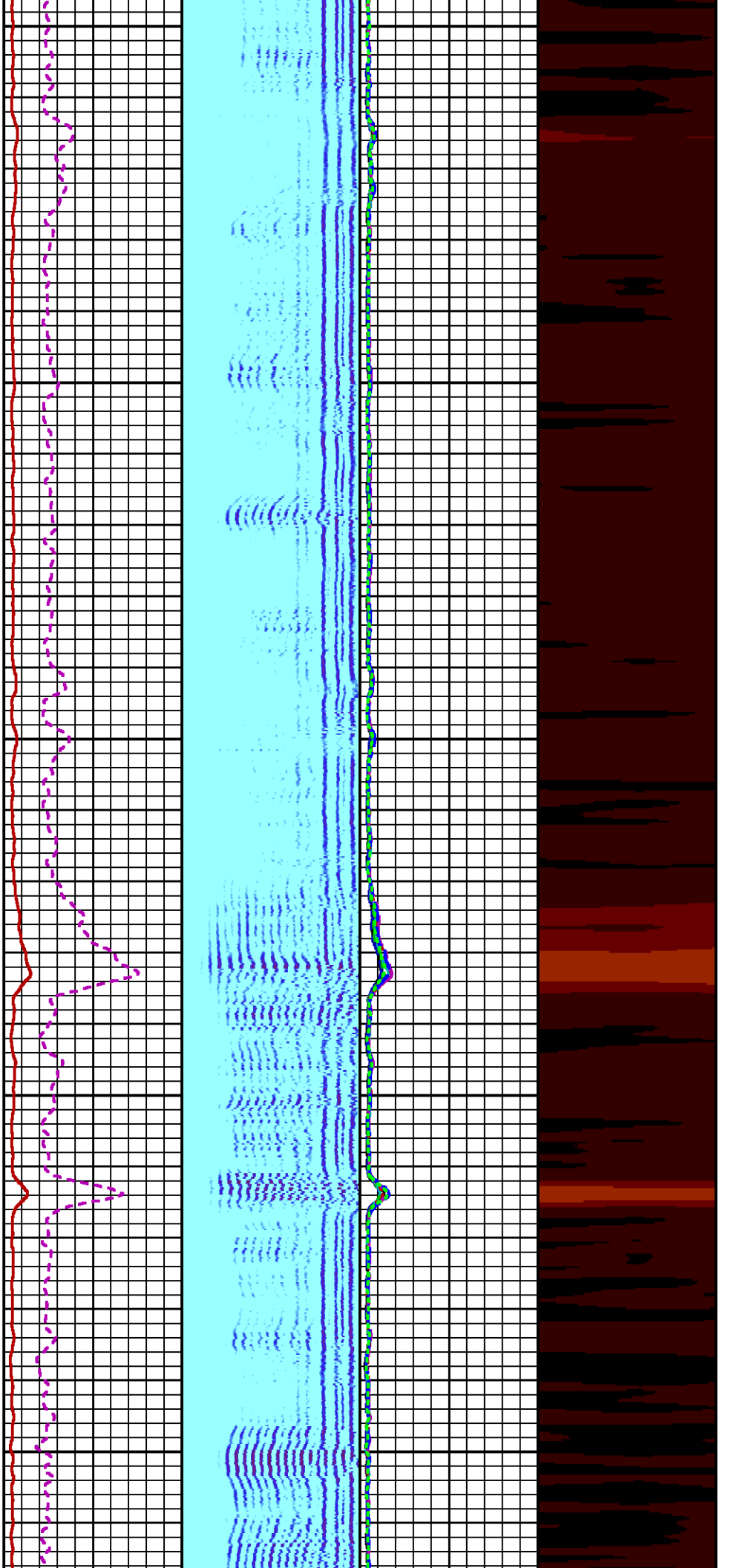




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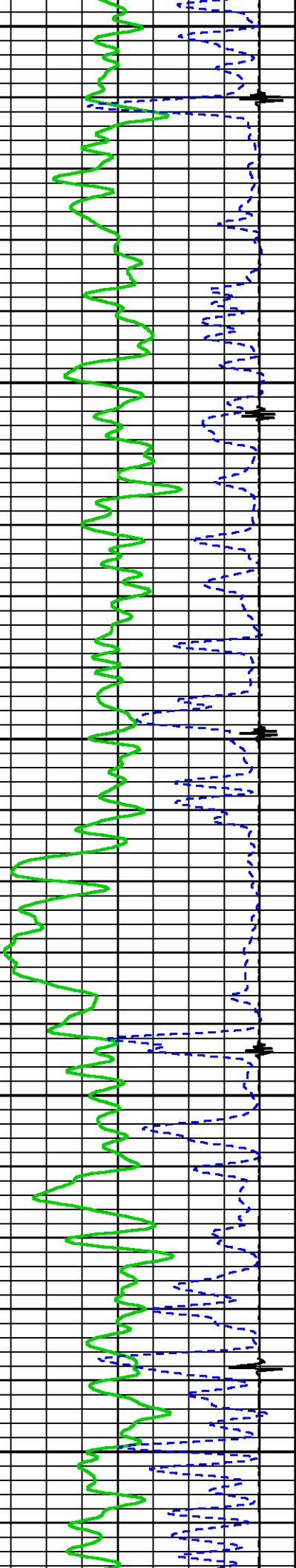
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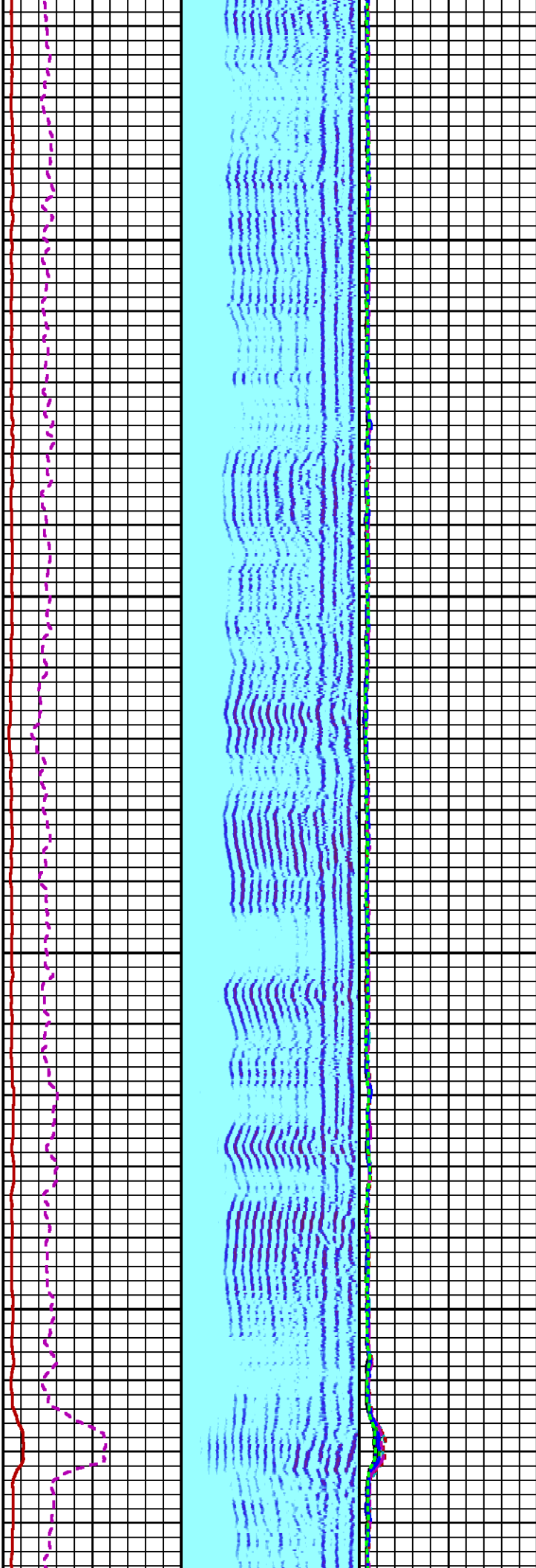
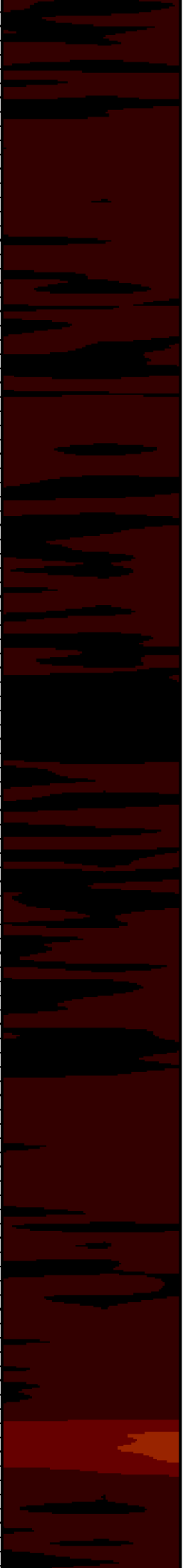




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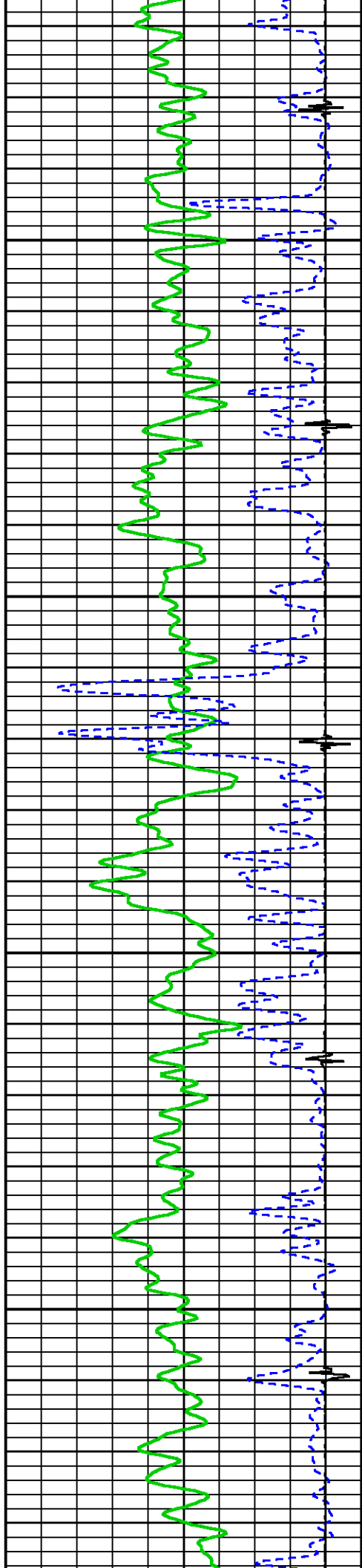
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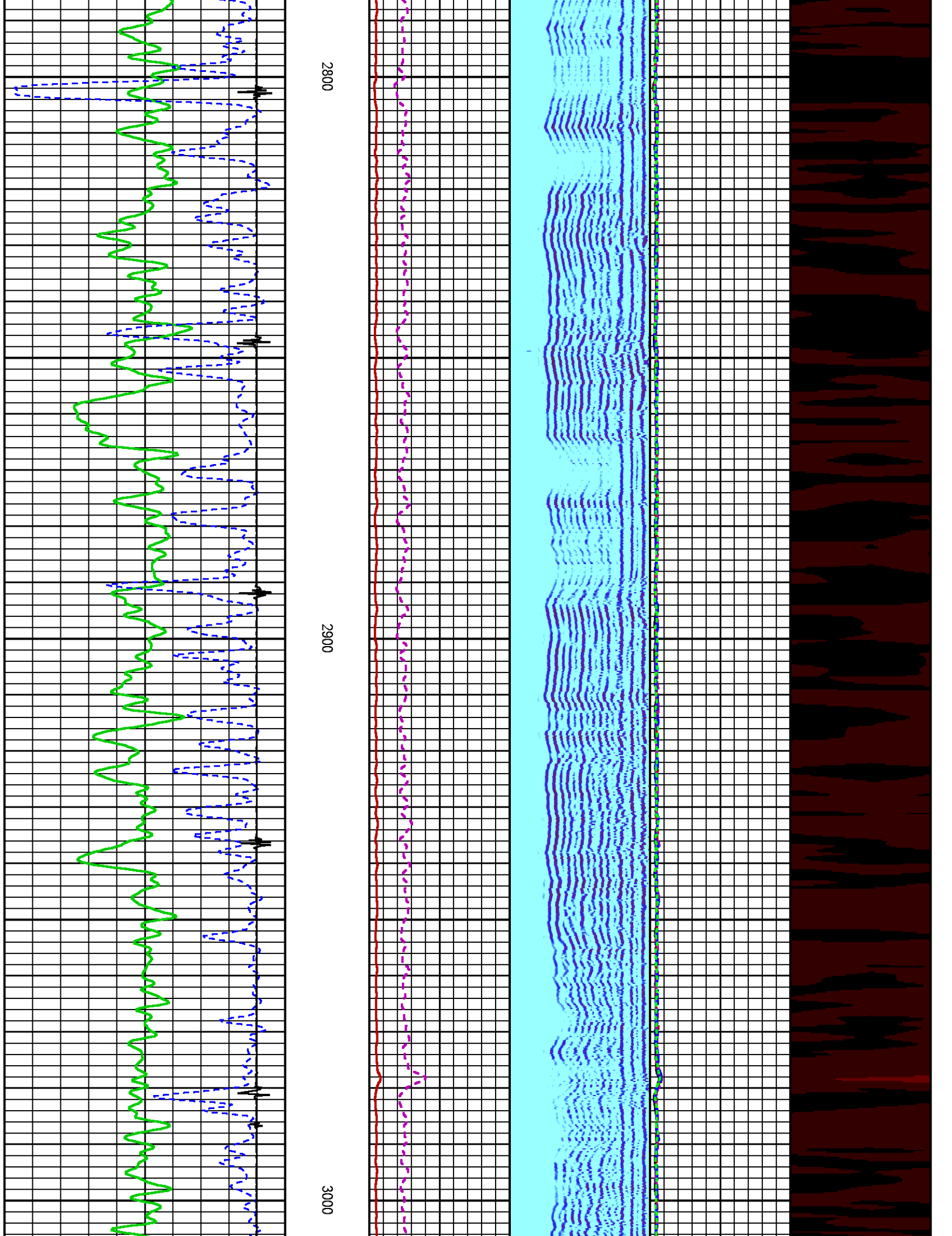


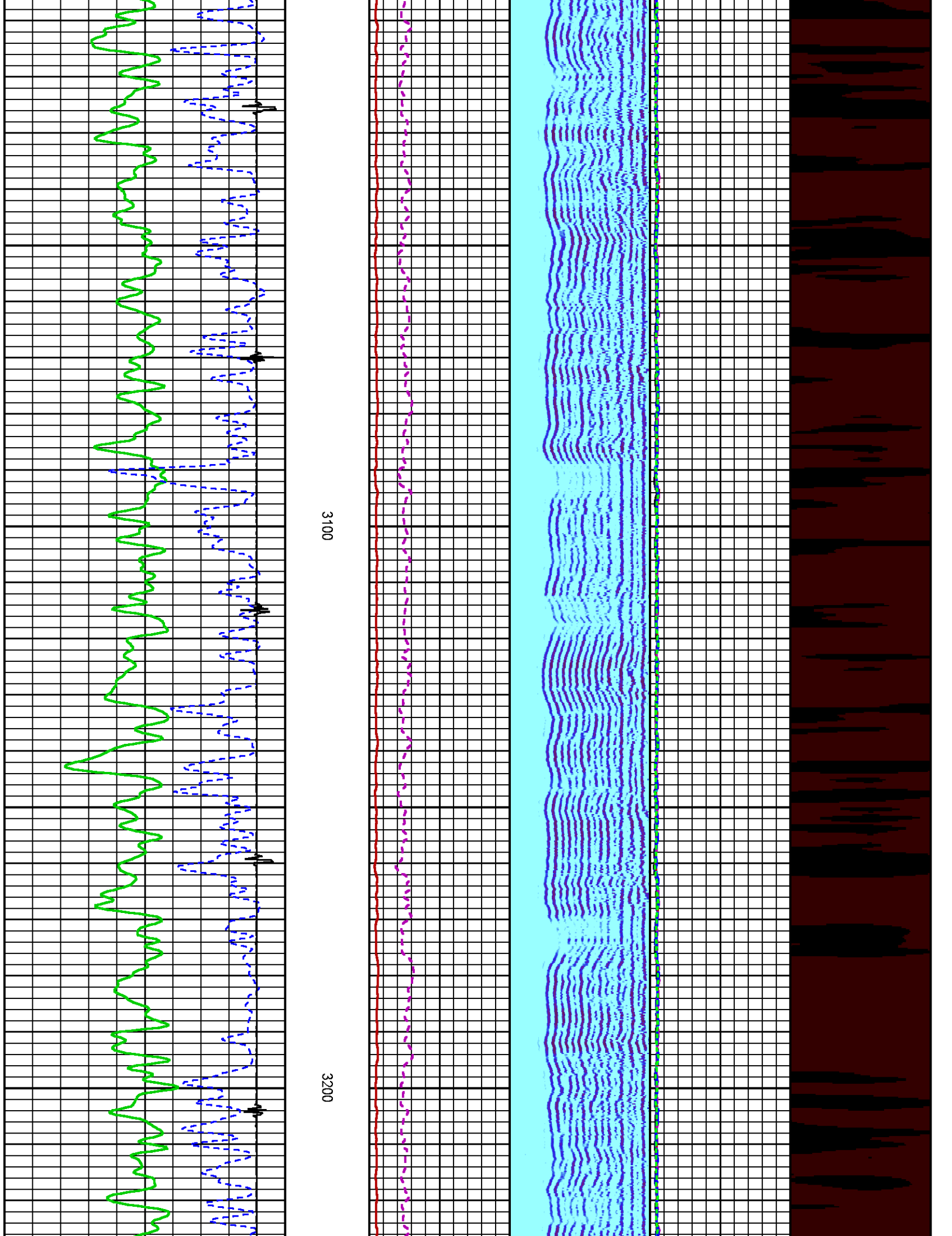


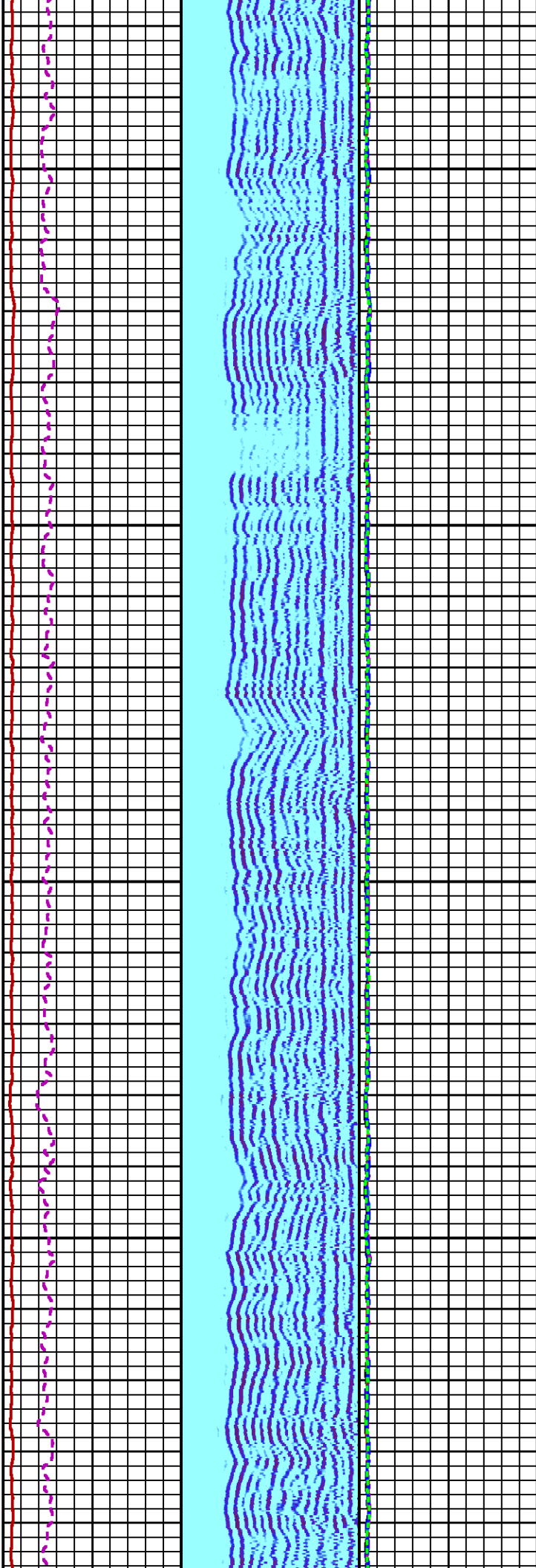
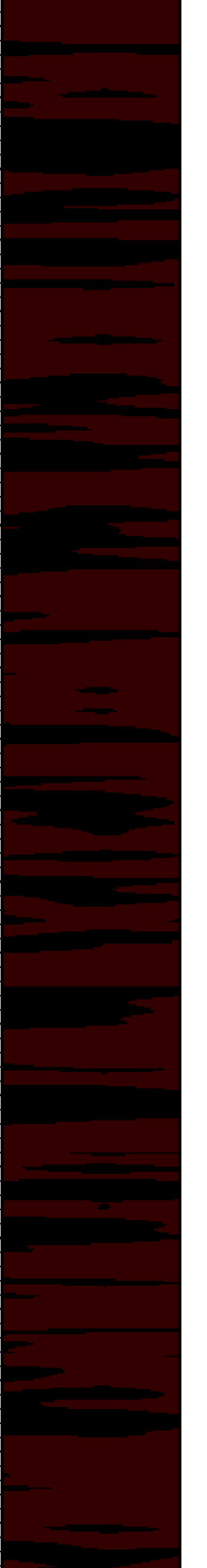
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2700



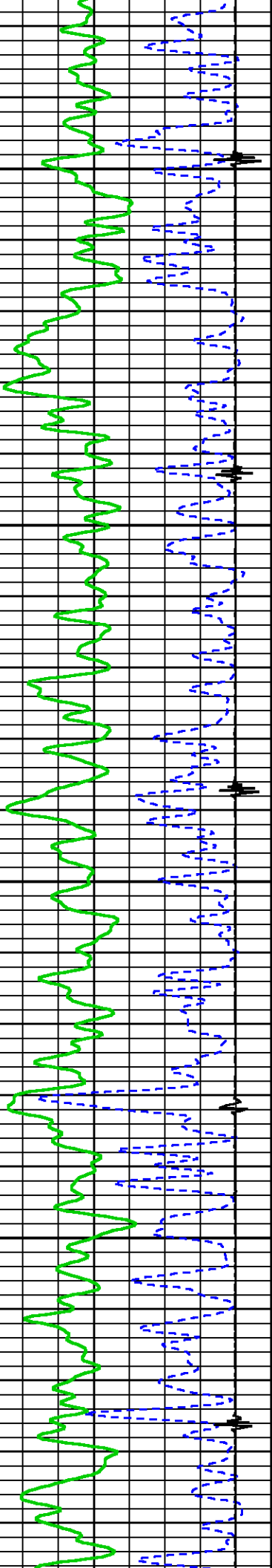


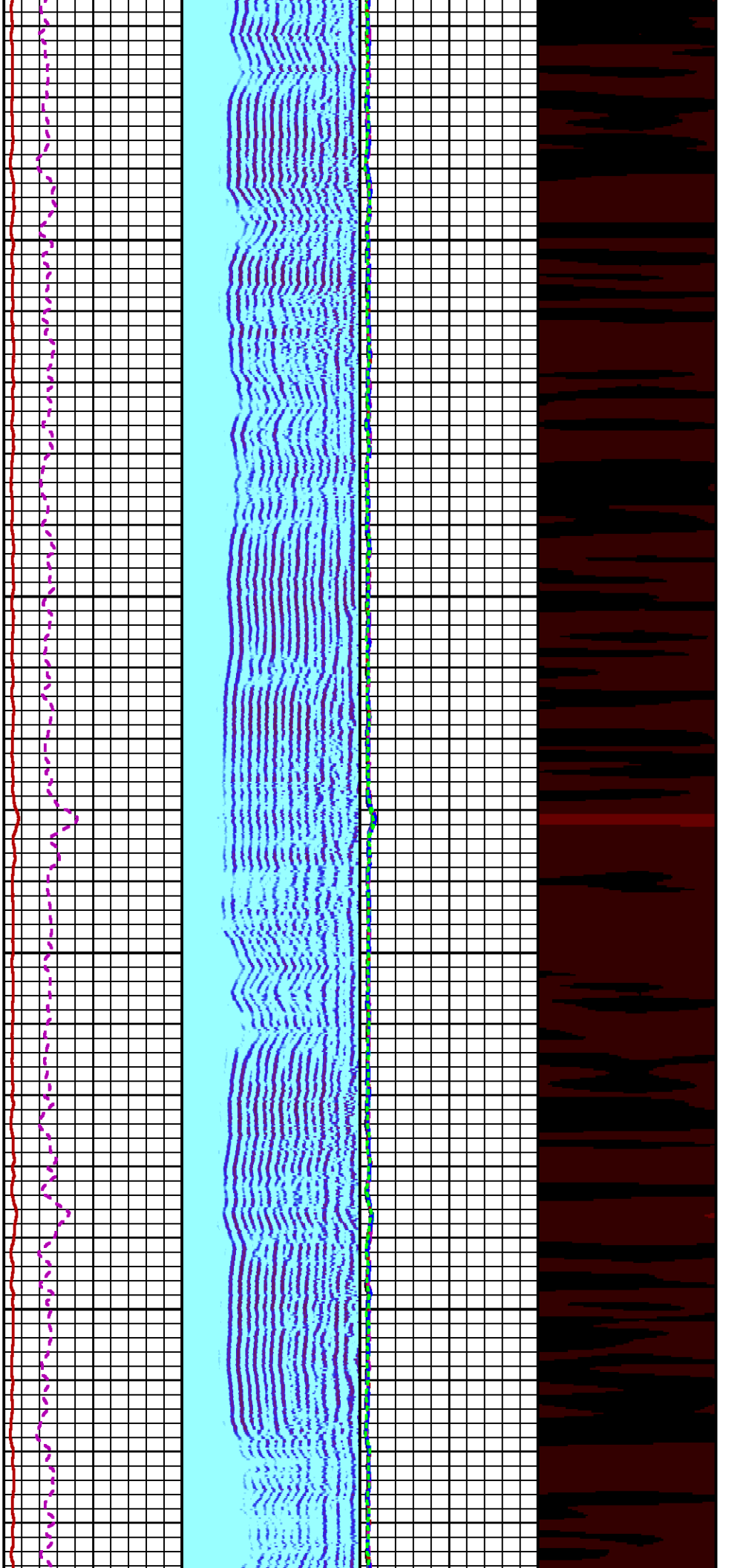




3300

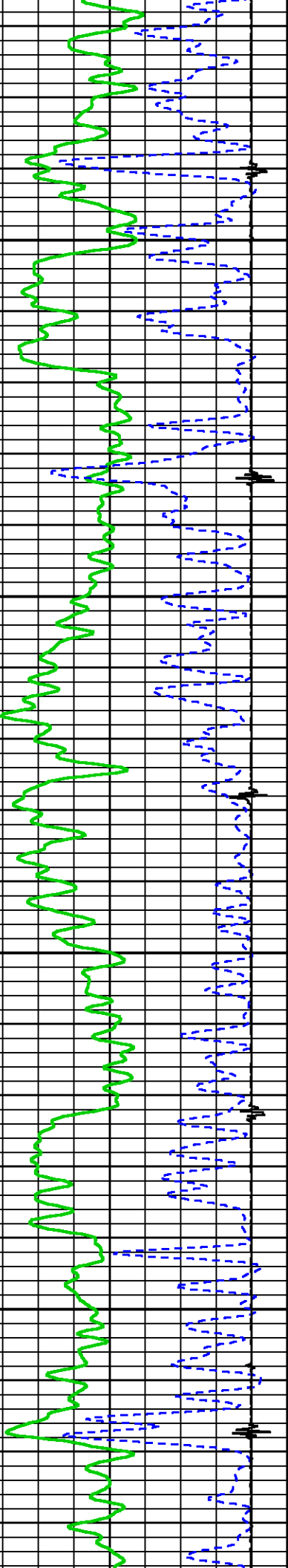
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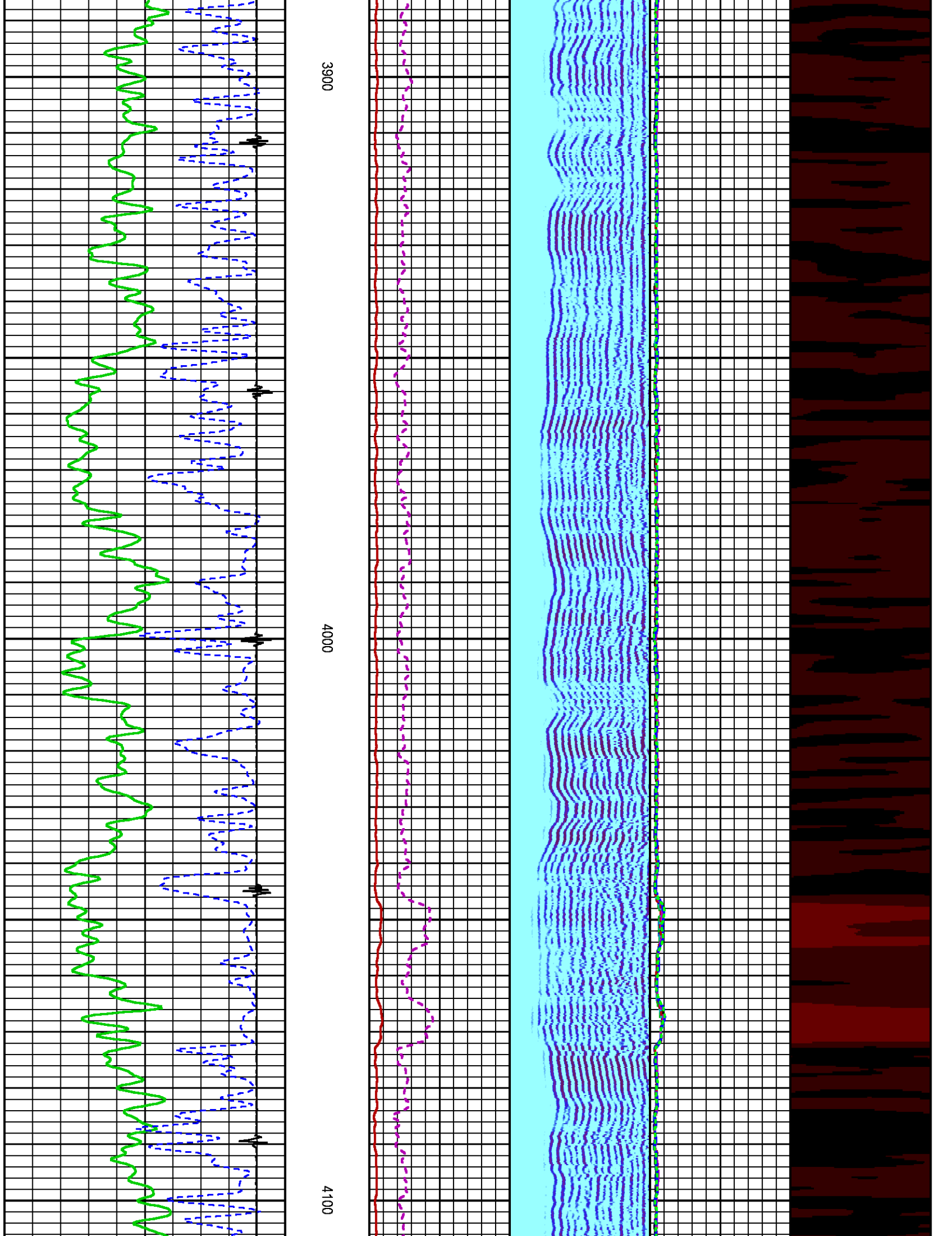


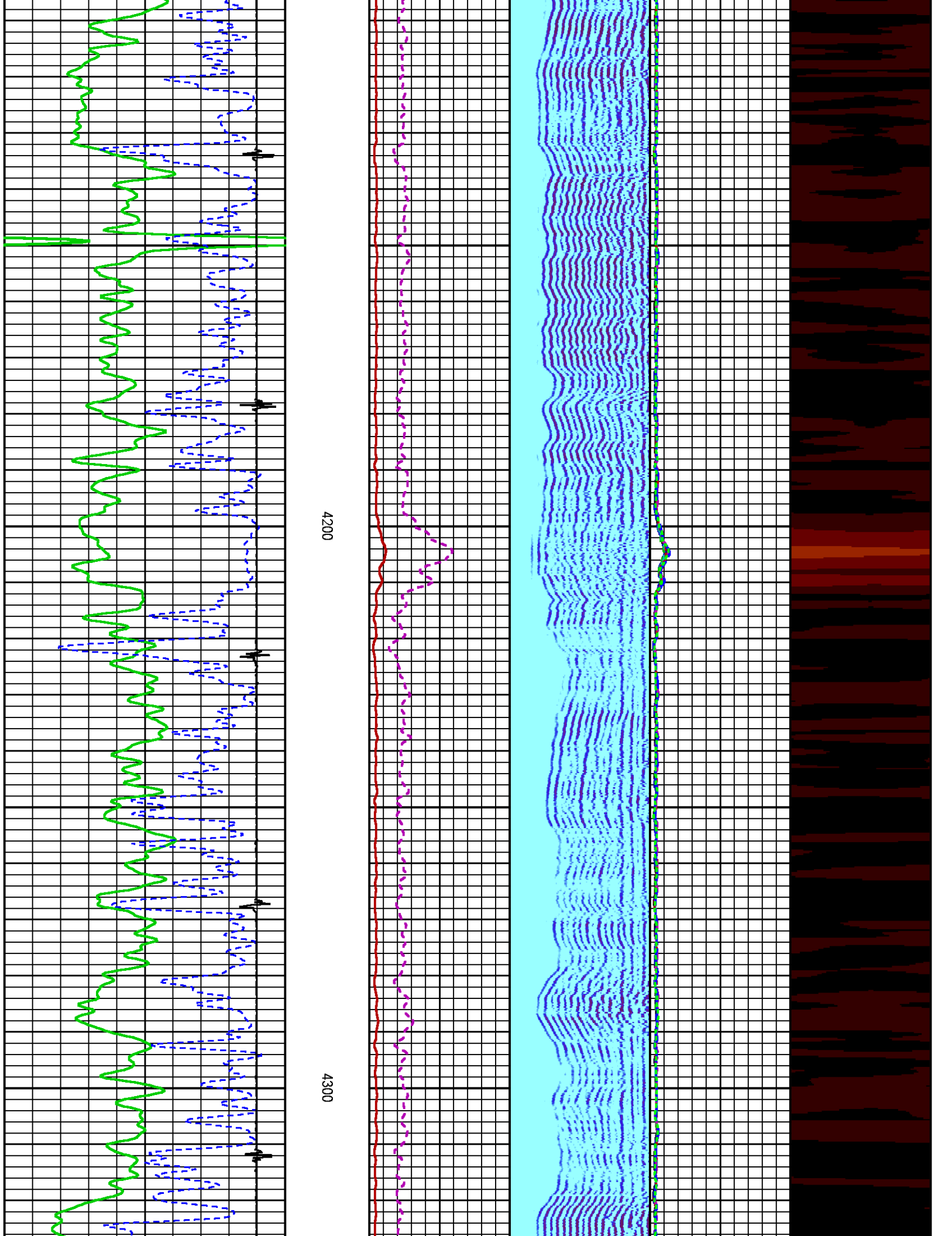


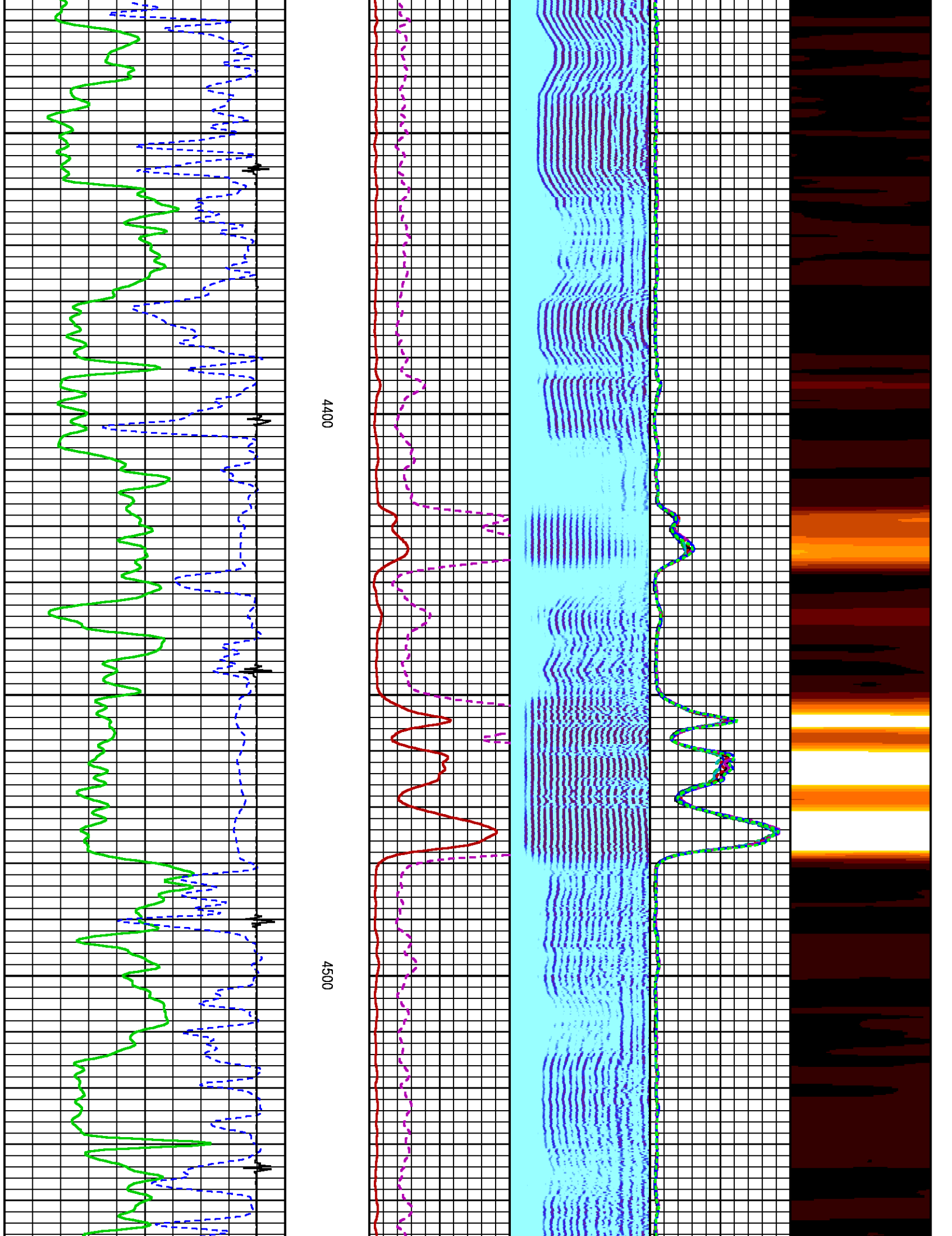
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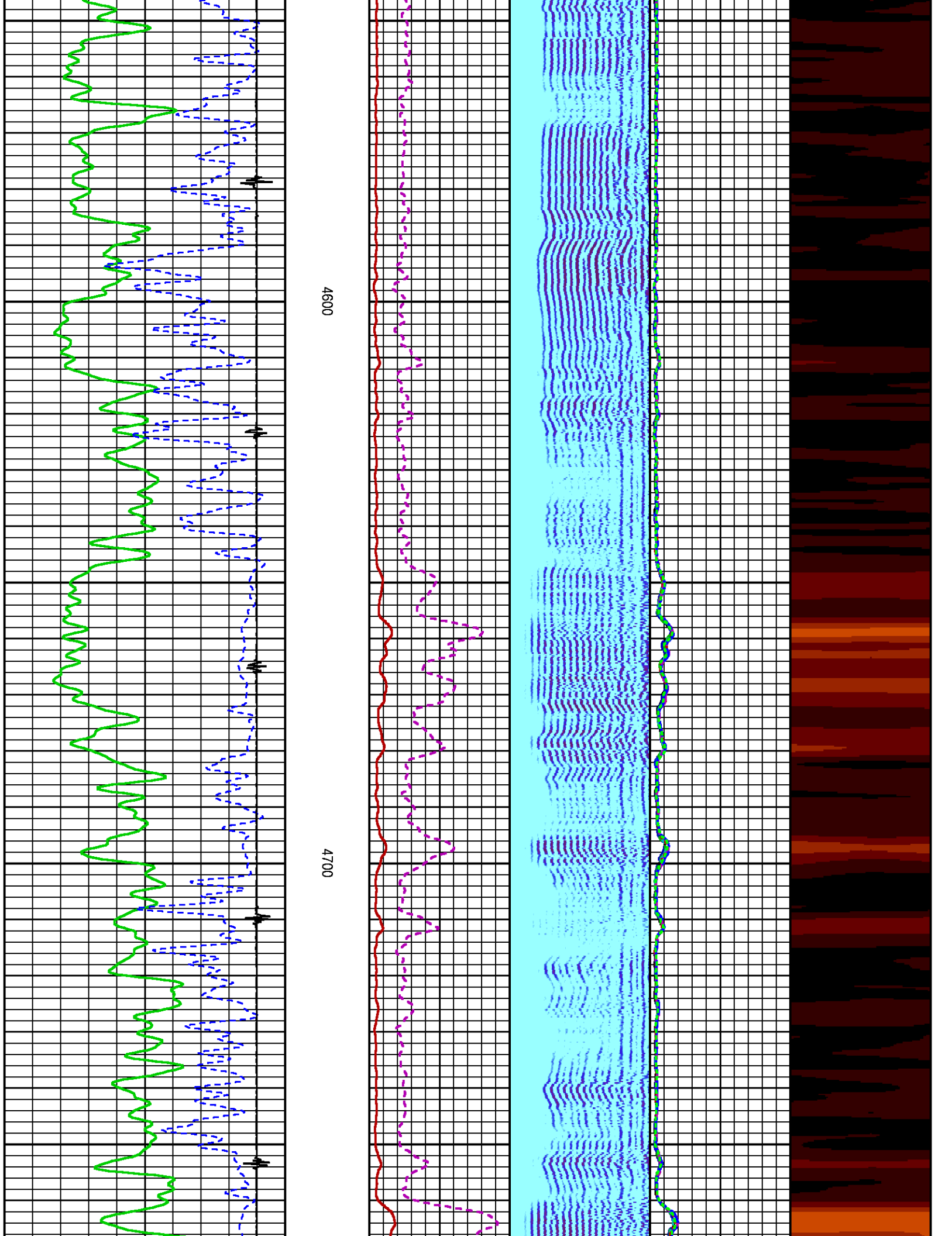
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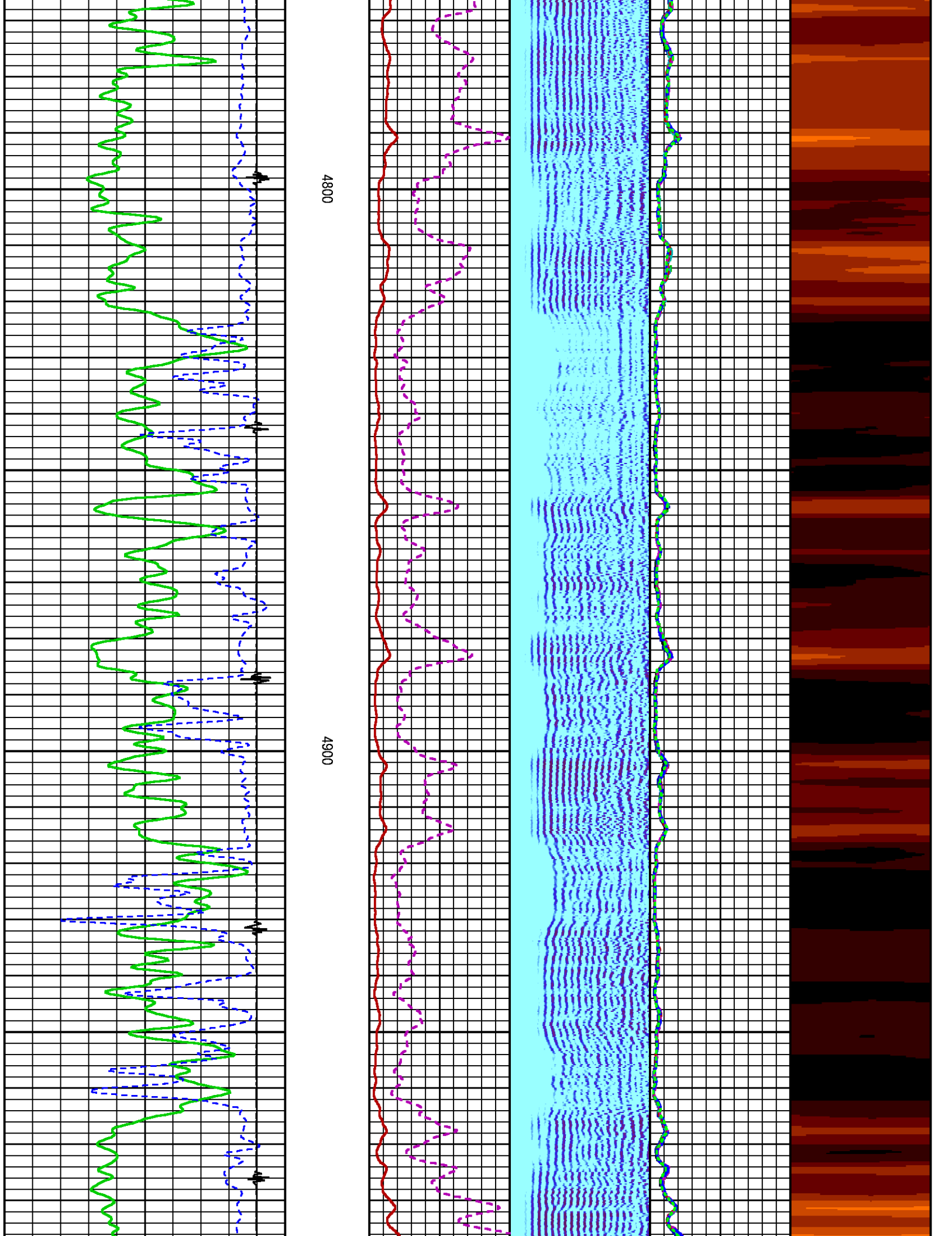


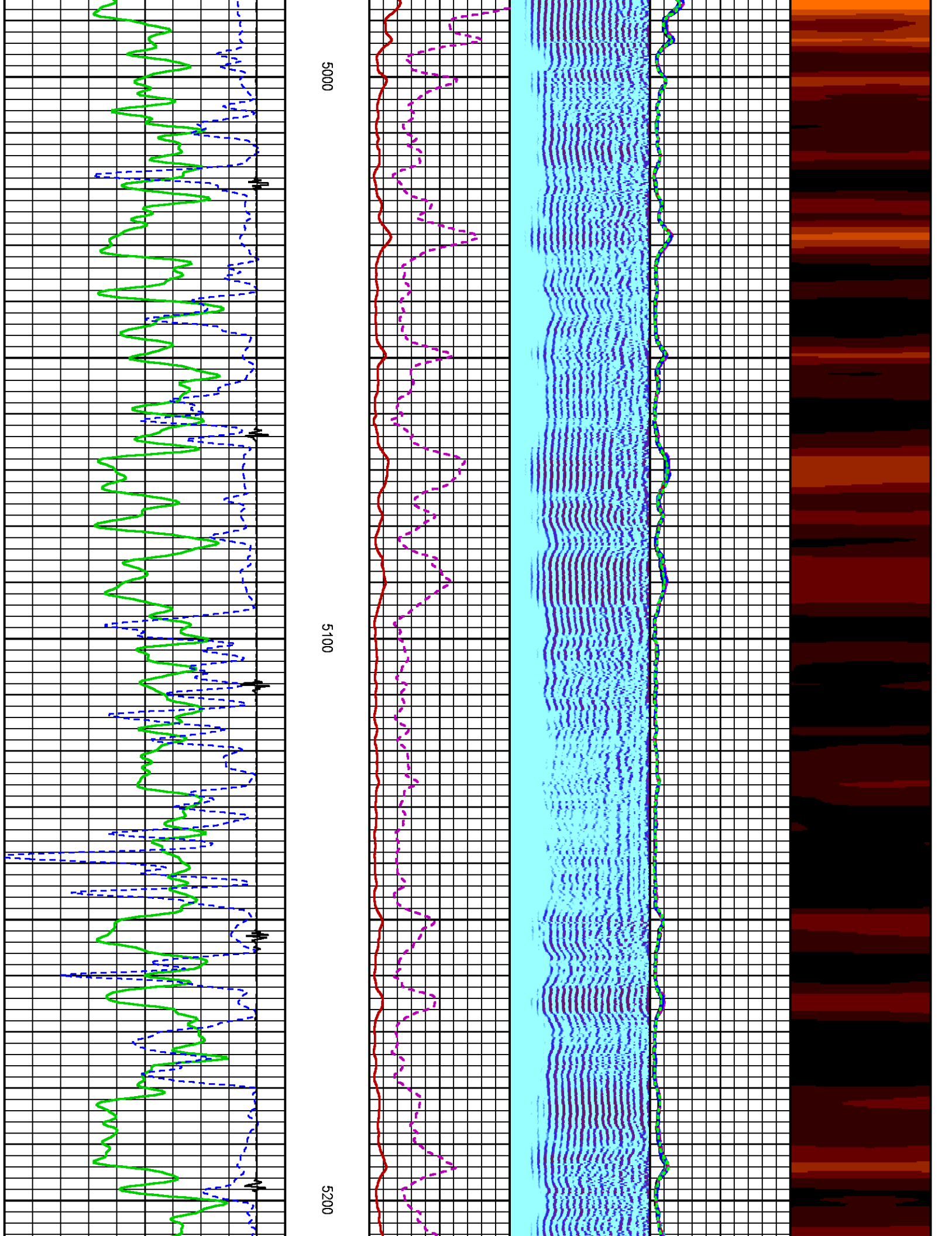


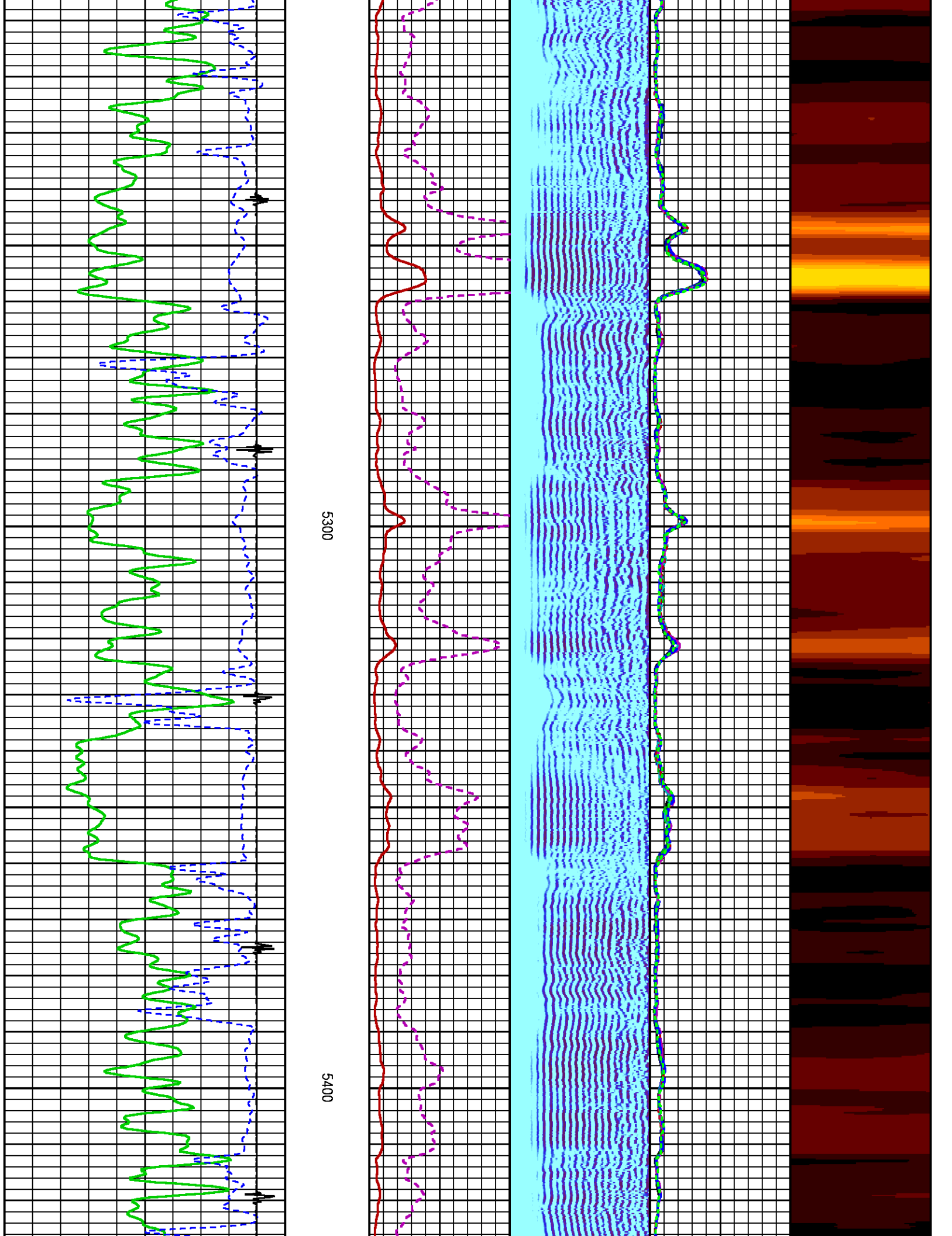


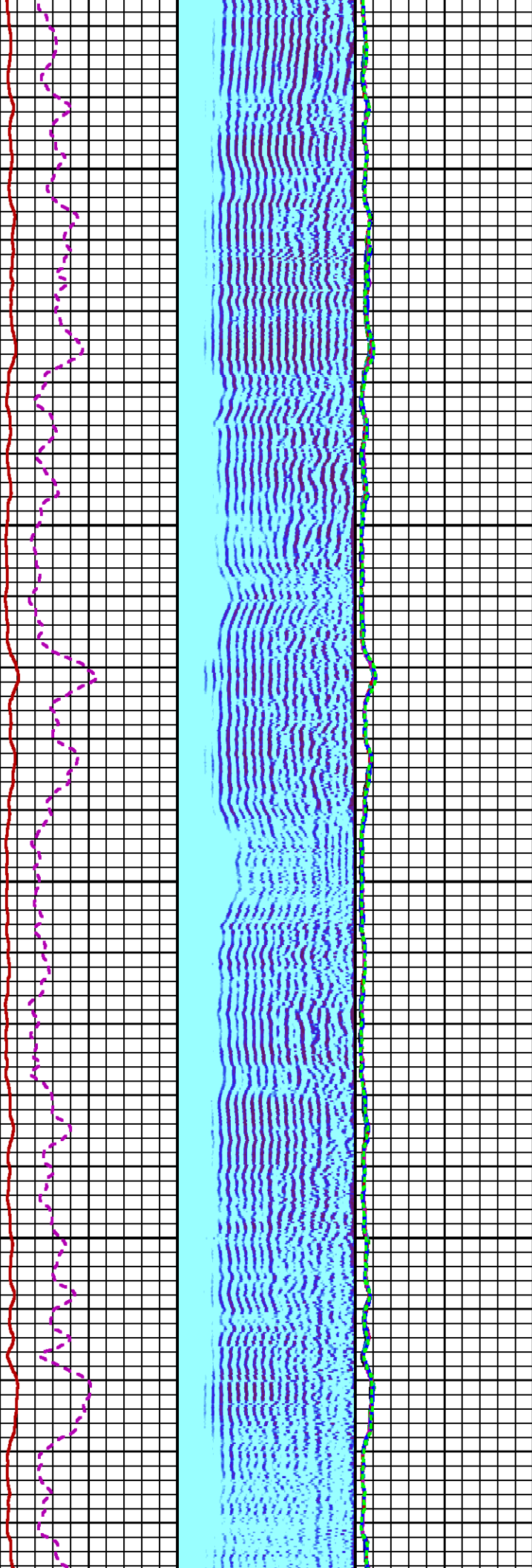






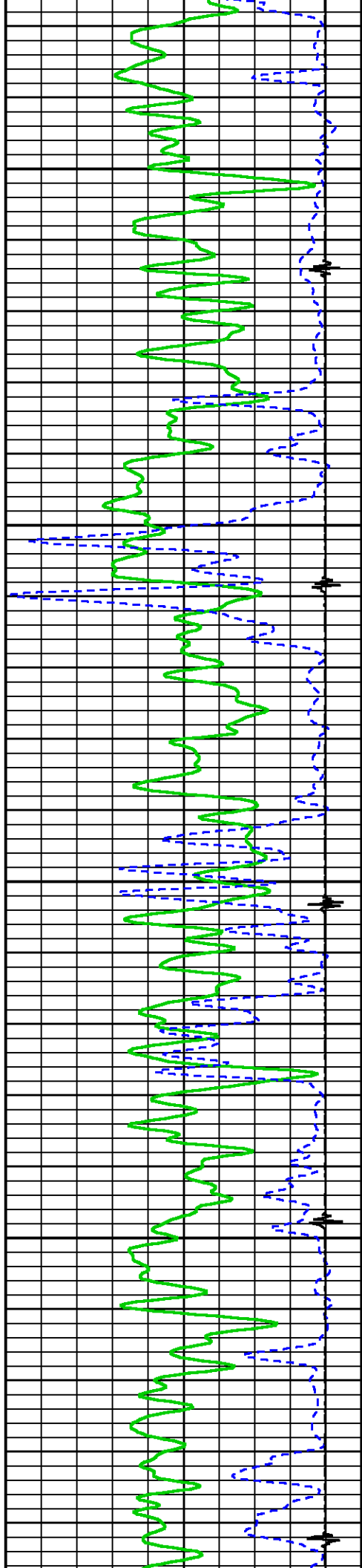


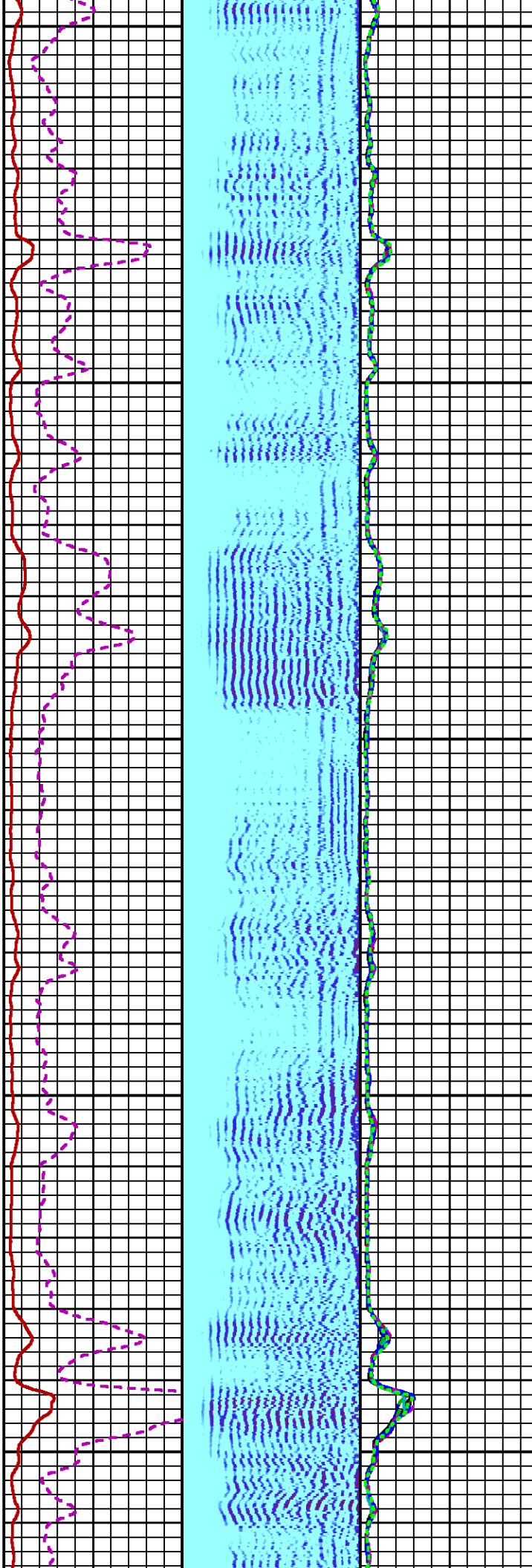
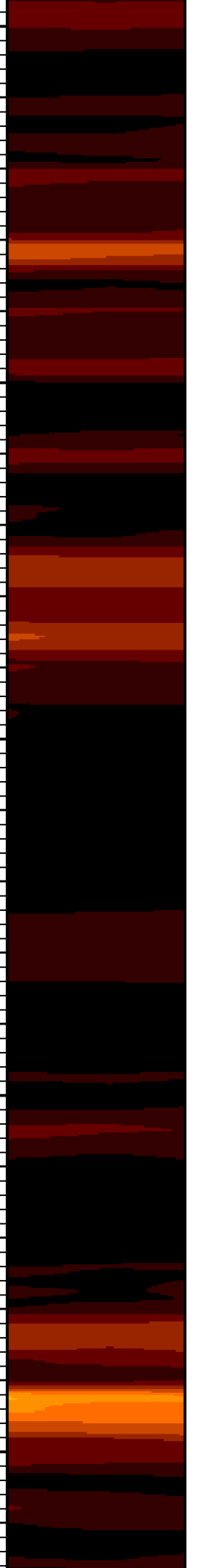




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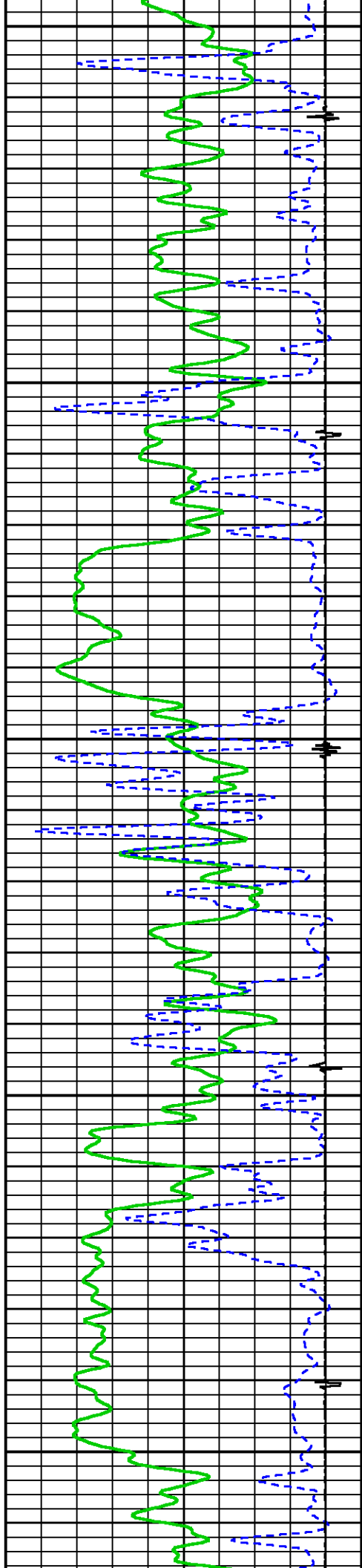
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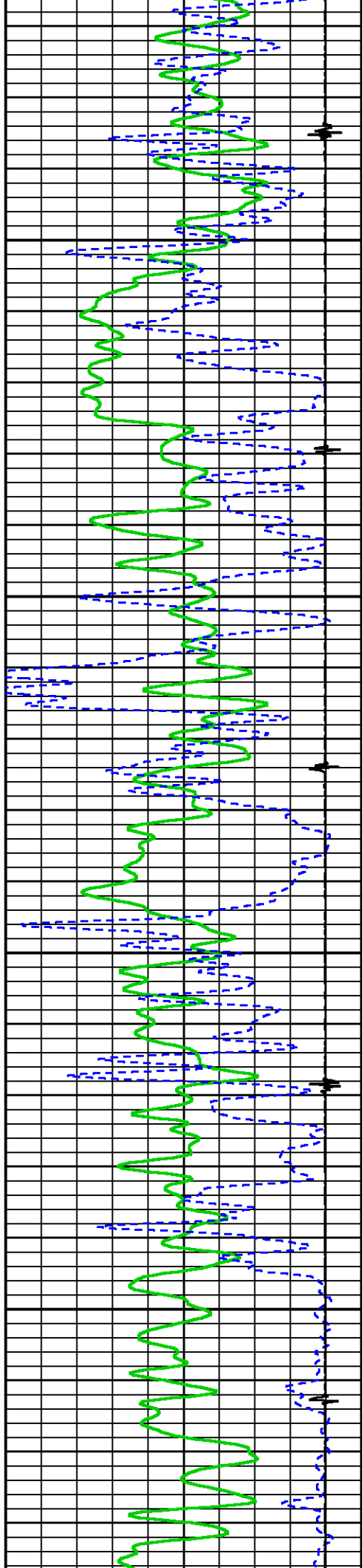




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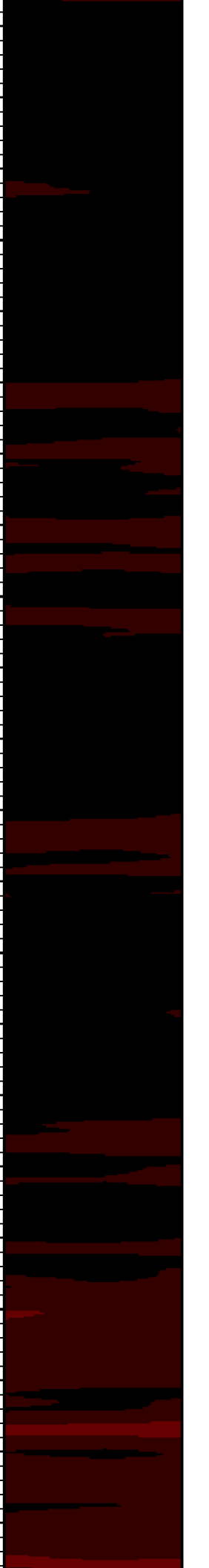
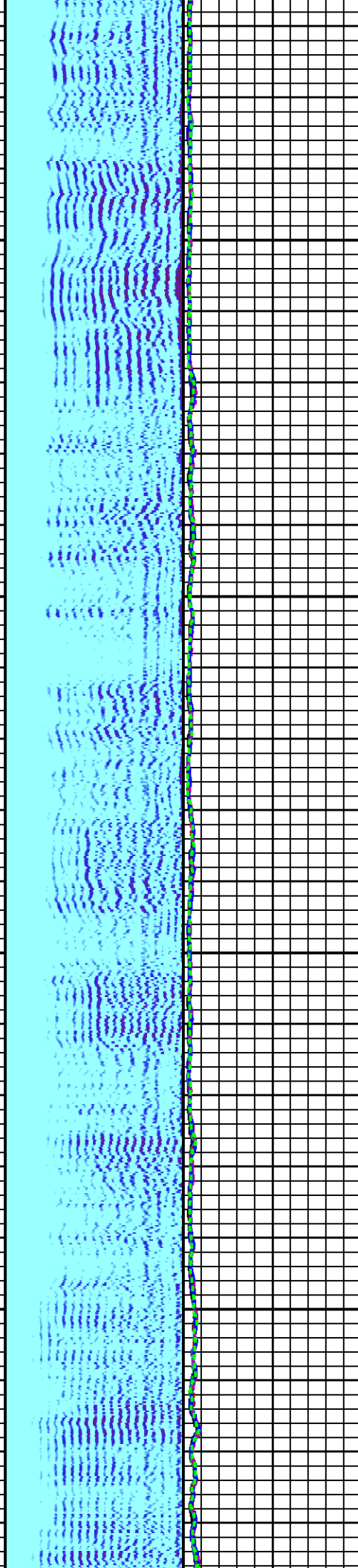
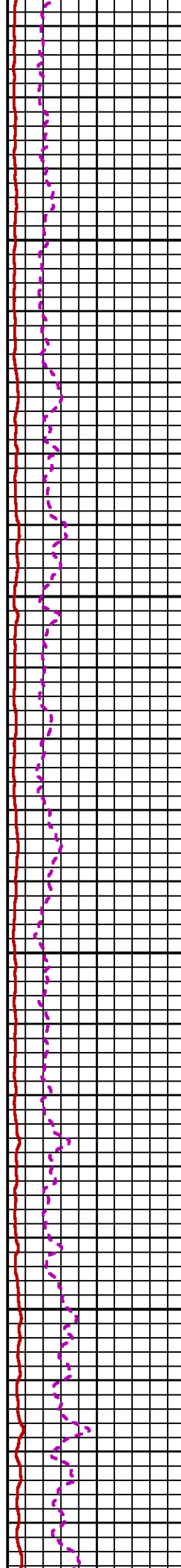
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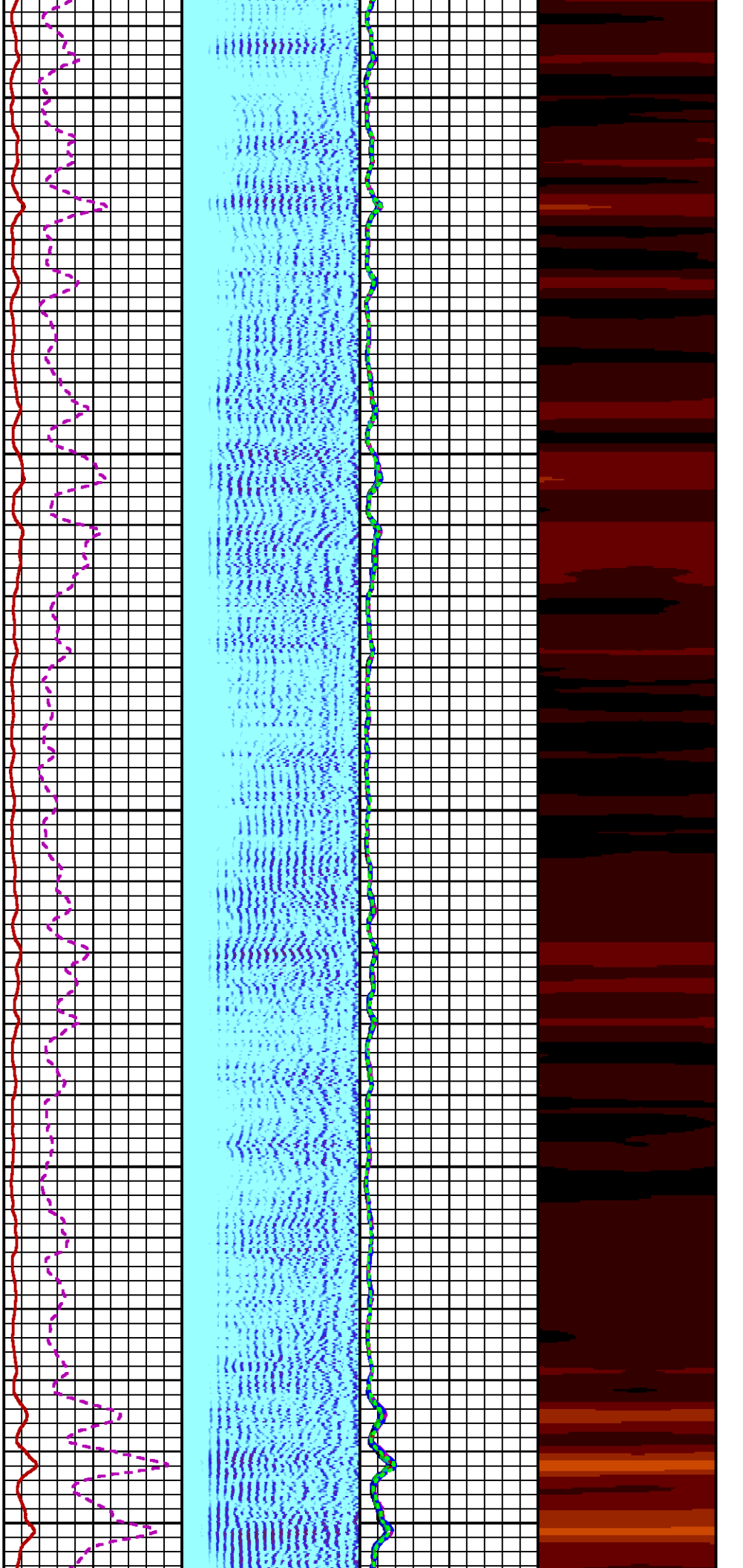




0065

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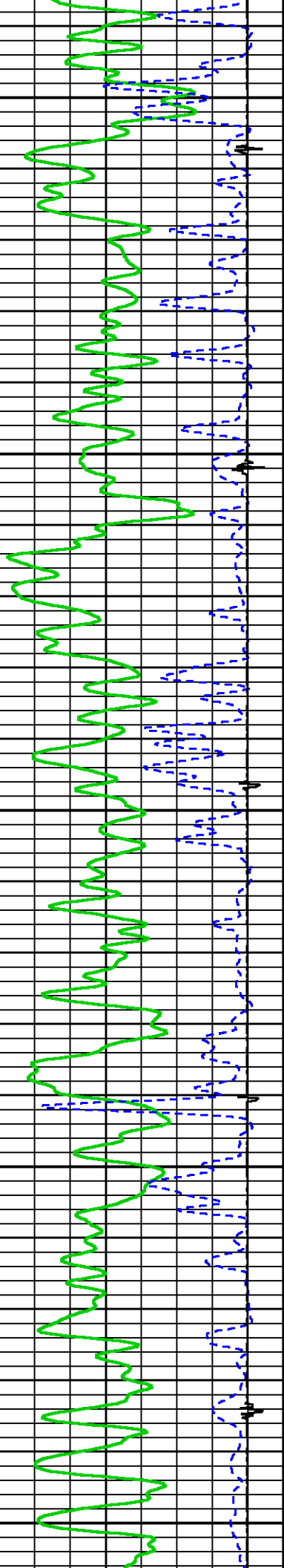


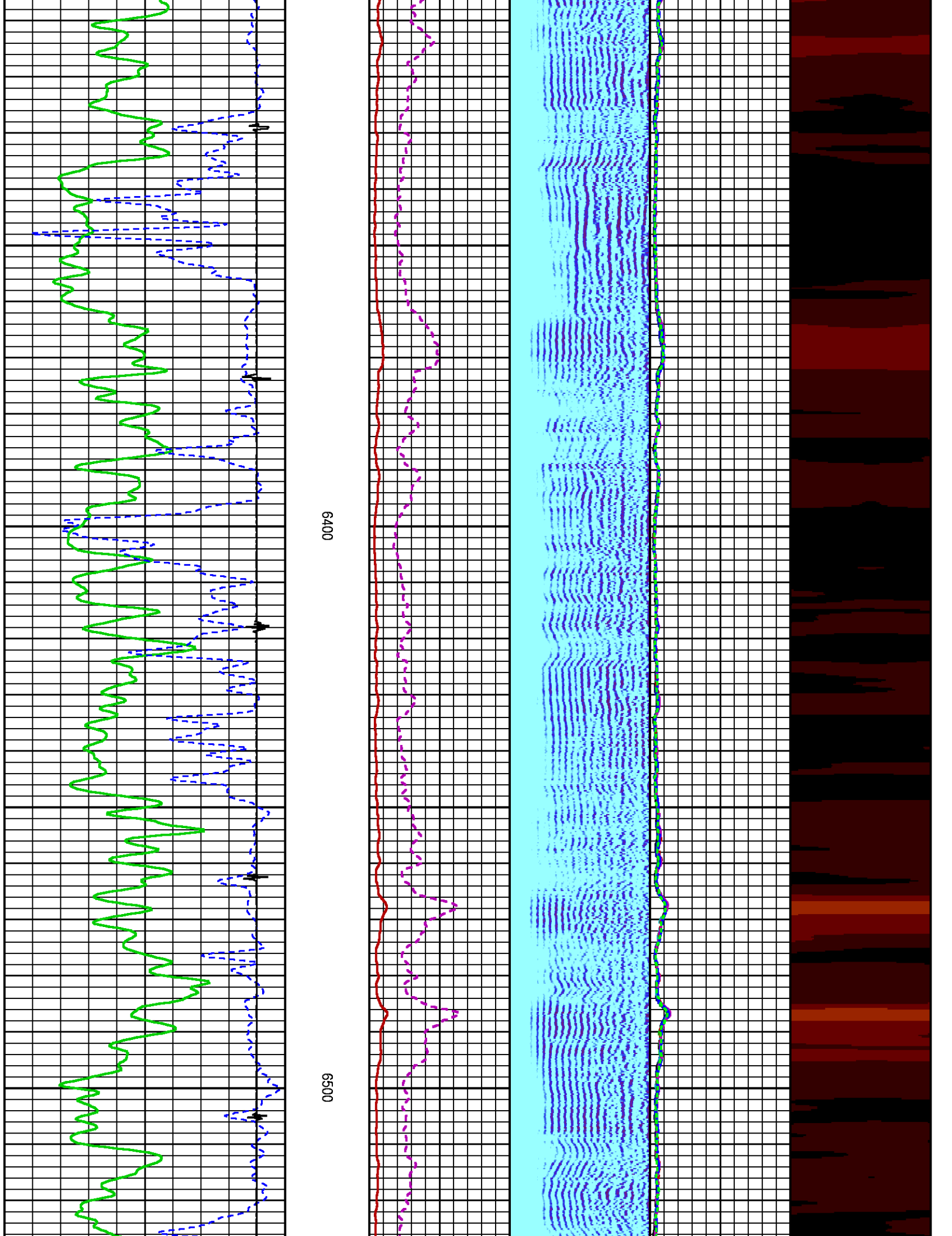


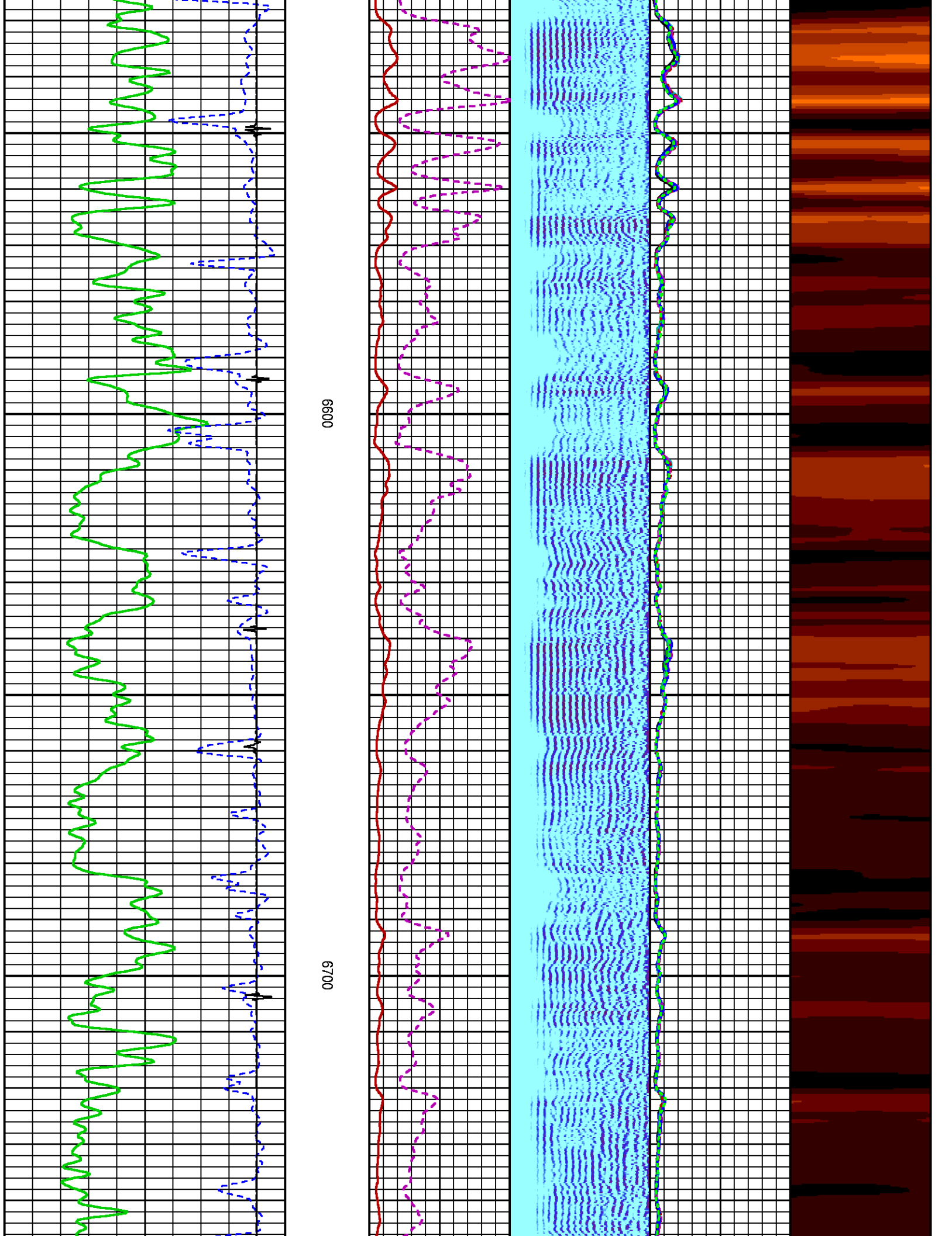
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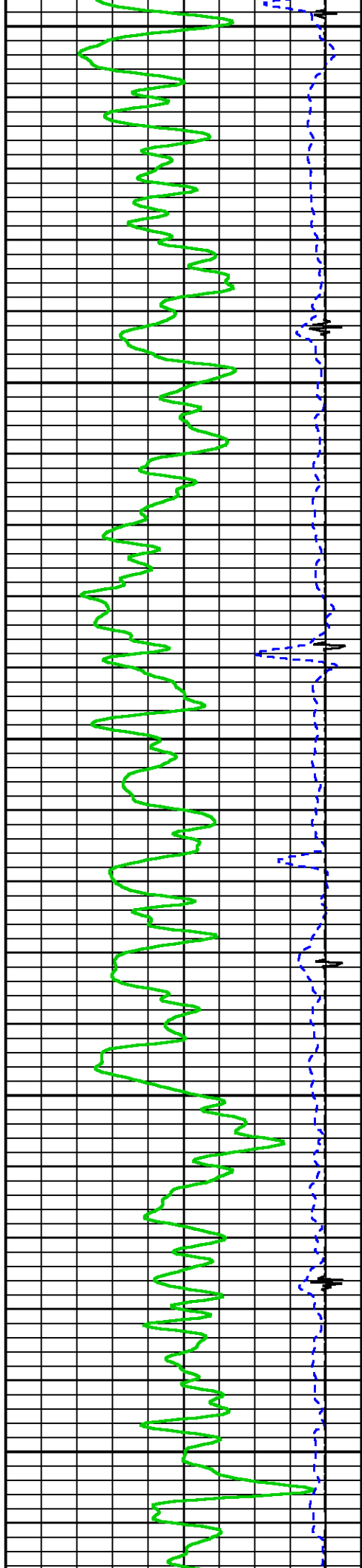
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6300



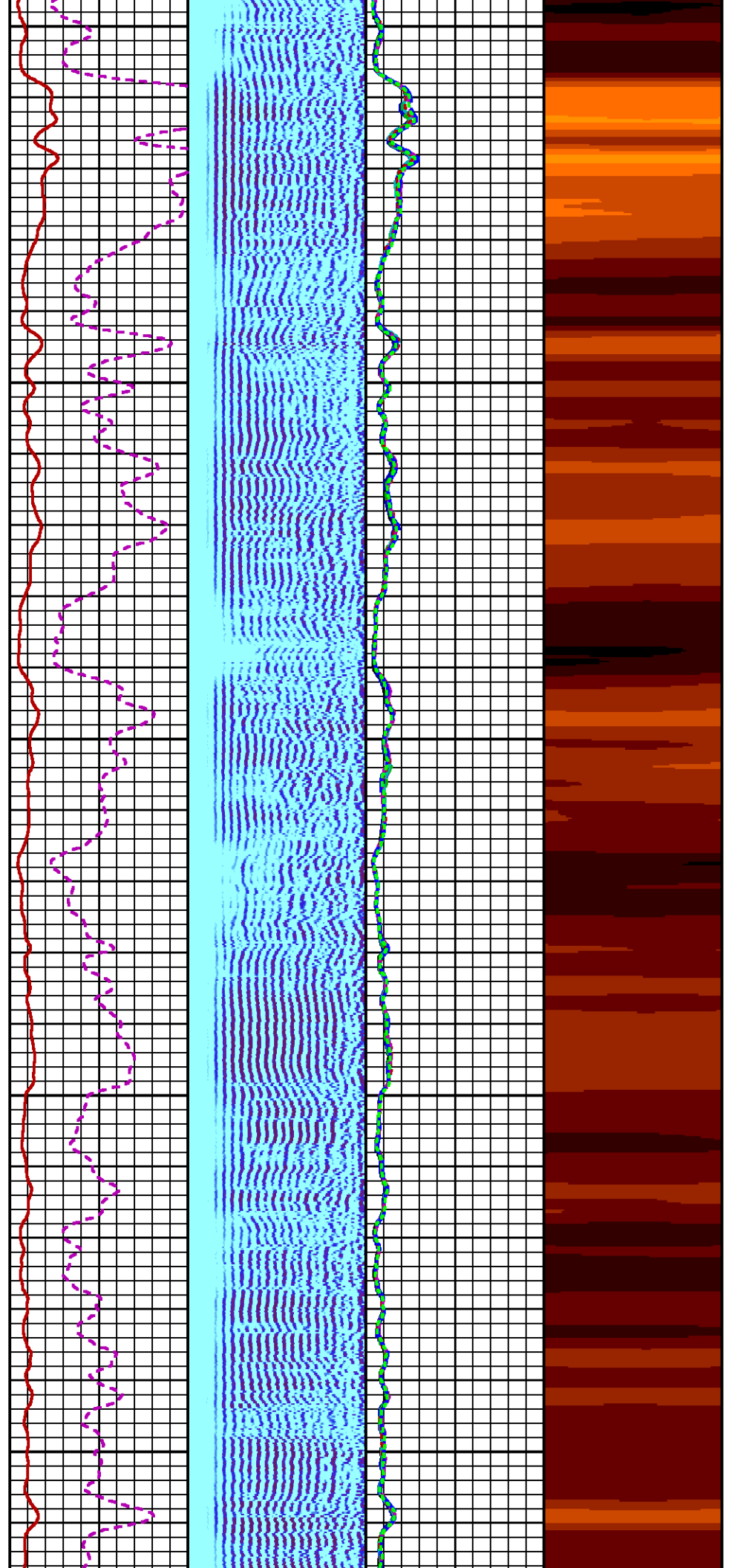


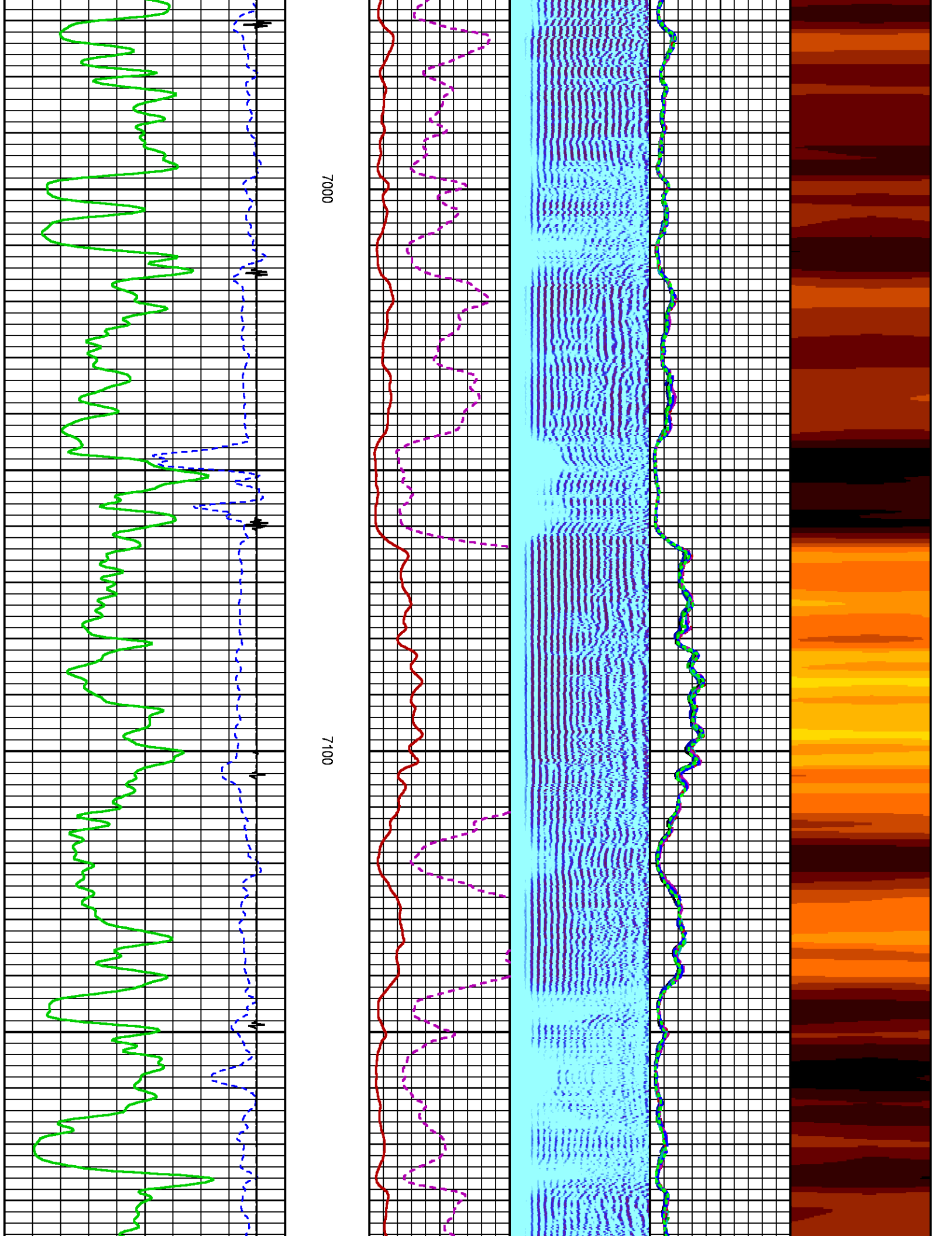


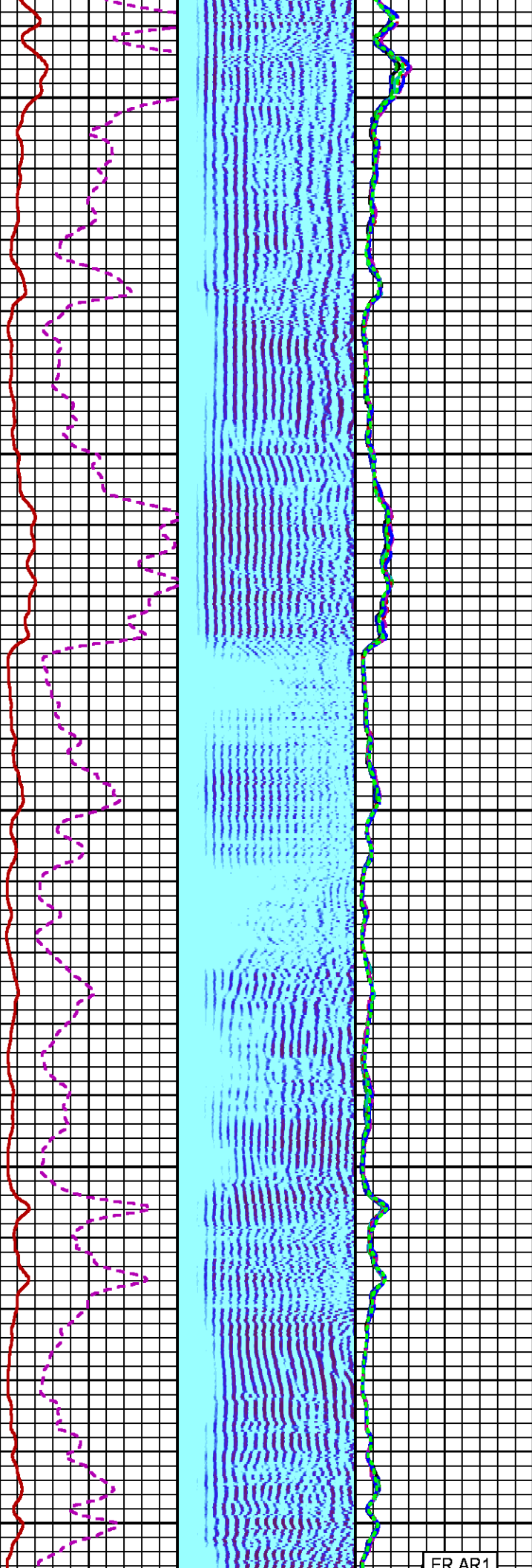


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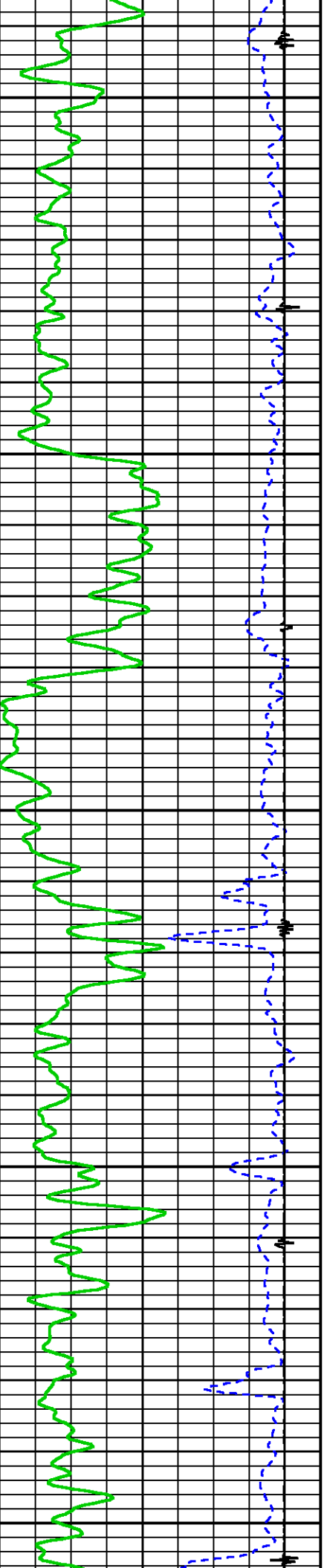




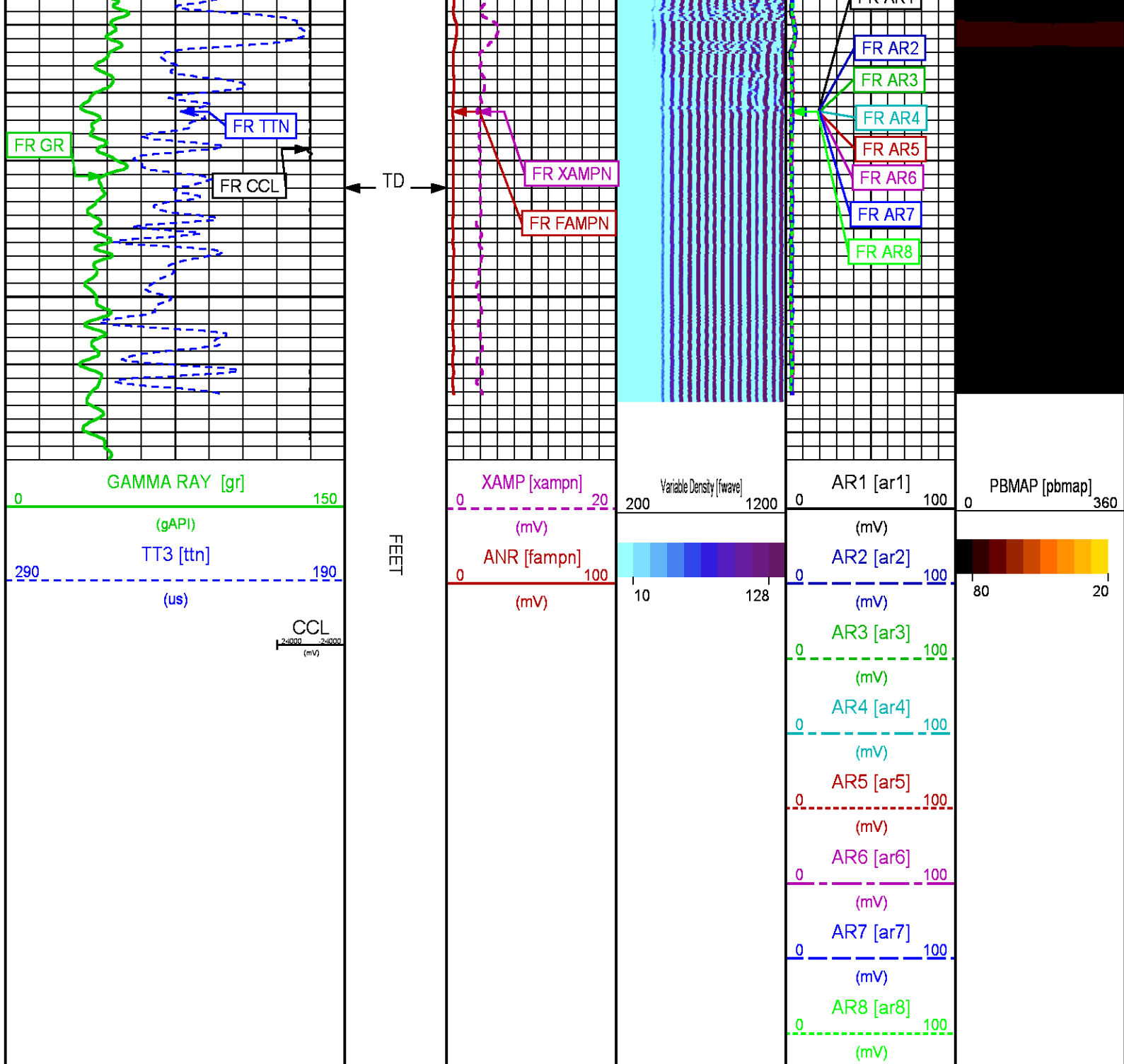
7200

7300

7400



FR AR1



REPEAT PASS 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
 Updates: 1 Patches: 9

Plotted: Fri Aug 25 14:13:29 2017

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/LARAMIE_GUNDERSON_20_05W/n012g01.prm

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*)	188	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	188	us	"	"
	AMP WINDOW START (fgp3*)	188	us	"	"
	AMP WINDOW START (fgp4*)	188	us	"	"
	AMP WINDOW START (fgp5*)	188	us	"	"
	AMP WINDOW START (fgp6*)	188	us	"	"
	AMP WINDOW START (fgp7*)	188	us	"	"
	AMP WINDOW START (fgp8*)	188	us	"	"
	AMP WINDOW START (fgpn*)	188	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*)	-58	us	TOP	7299.250
		-59	us	7299.250	7313.250
		-60	us	7313.250	BOTTOM
	TOOL DELAY (str2*)	-58	us	TOP	7299.250
		-59	us	7299.250	7313.250
		-60	us	7313.250	BOTTOM
	TOOL DELAY (str3*)	-58	us	TOP	7299.250
		-59	us	7299.250	7313.250
		-60	us	7313.250	BOTTOM
	TOOL DELAY (str4*)	-58	us	TOP	7299.250
		-59	us	7299.250	7313.250
		-60	us	7313.250	BOTTOM
	TOOL DELAY (str5*)	-58	us	TOP	7299.250
		-59	us	7299.250	7313.250
		-60	us	7313.250	BOTTOM
	TOOL DELAY (str6*)	-58	us	TOP	7299.250
		-59	us	7299.250	7313.250
		-60	us	7313.250	BOTTOM
	TOOL DELAY (str7*)	-58	us	TOP	7299.250
		-59	us	7299.250	7313.250
		-60	us	7313.250	BOTTOM
	TOOL DELAY (str8*)	-58	us	TOP	7299.250
		-59	us	7299.250	7313.250
		-60	us	7313.250	BOTTOM
	TOOL DELAY (strn*)	-58	us	TOP	7299.250
		-59	us	7299.250	7313.250
		-60	us	7313.250	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 25 14:06:08 2017	FIXED GATE AMPLITUDE T-R1
F1:AR2	Aug 25 14:06:08 2017	FIXED GATE AMPLITUDE T-R2
F1:AR3	Aug 25 14:06:08 2017	FIXED GATE AMPLITUDE T-R3
F1:AR4	Aug 25 14:06:08 2017	FIXED GATE AMPLITUDE T-R4
F1:AR5	Aug 25 14:06:08 2017	FIXED GATE AMPLITUDE T-R5
F1:AR6	Aug 25 14:06:08 2017	FIXED GATE AMPLITUDE T-R6
F1:AR7	Aug 25 14:06:08 2017	FIXED GATE AMPLITUDE T-R7
F1:AR8	Aug 25 14:06:08 2017	FIXED GATE AMPLITUDE T-R8
F1:CCL	Aug 25 14:06:08 2017	CASING COLLAR LOCATOR
F1:FAMPN	Aug 25 14:06:08 2017	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Aug 25 14:06:08 2017	FAR WAVE FORM
F1:GR	Aug 25 14:06:08 2017	GAMMA RAY
F1:PBMAP	Aug 25 14:06:08 2017	PERCENT BOND CEMENT MAP
F1:TTN	Aug 25 14:06:08 2017	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Aug 25 14:06:08 2017	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

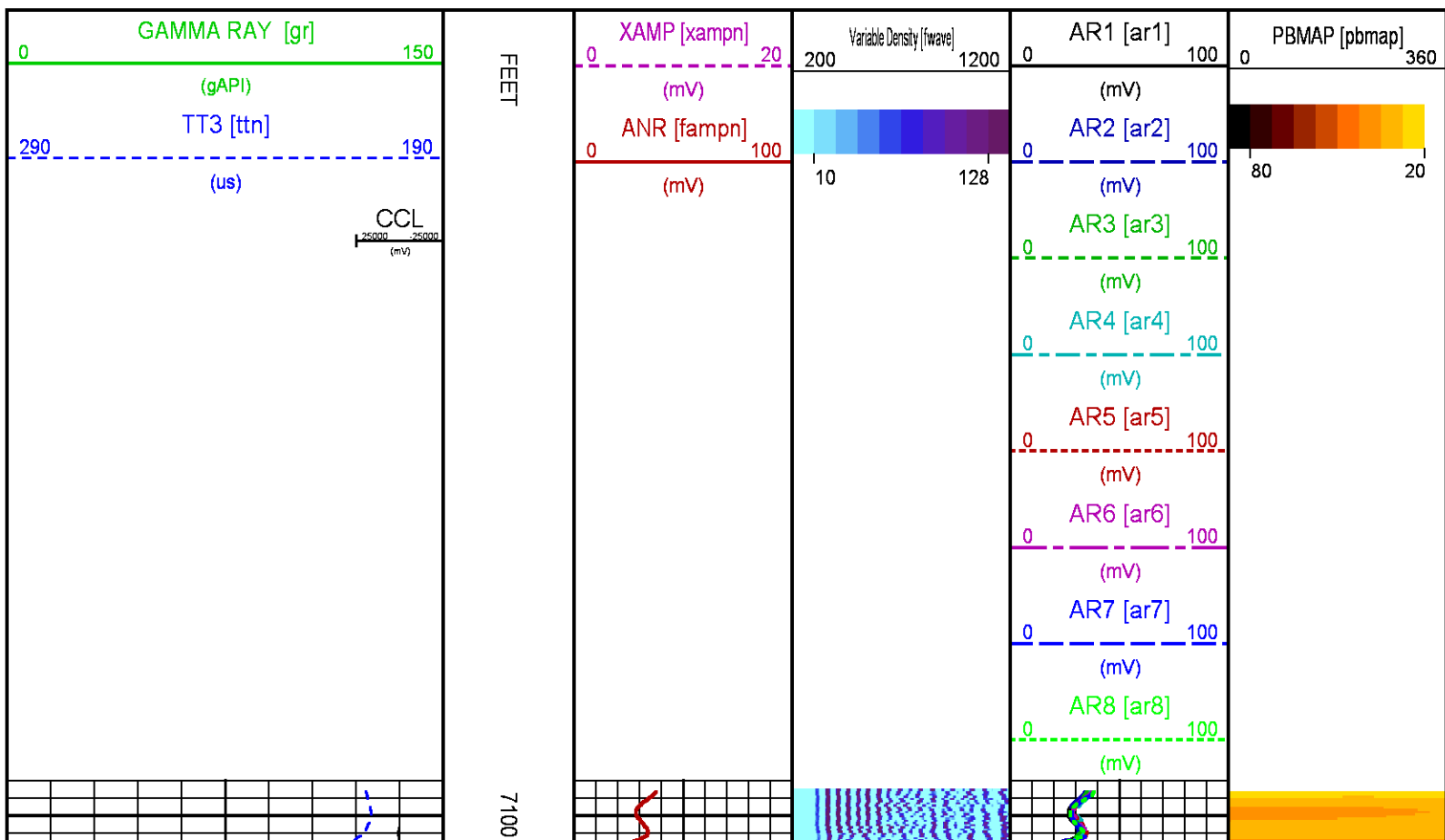
CURVE MEASURE POINT OFFSET

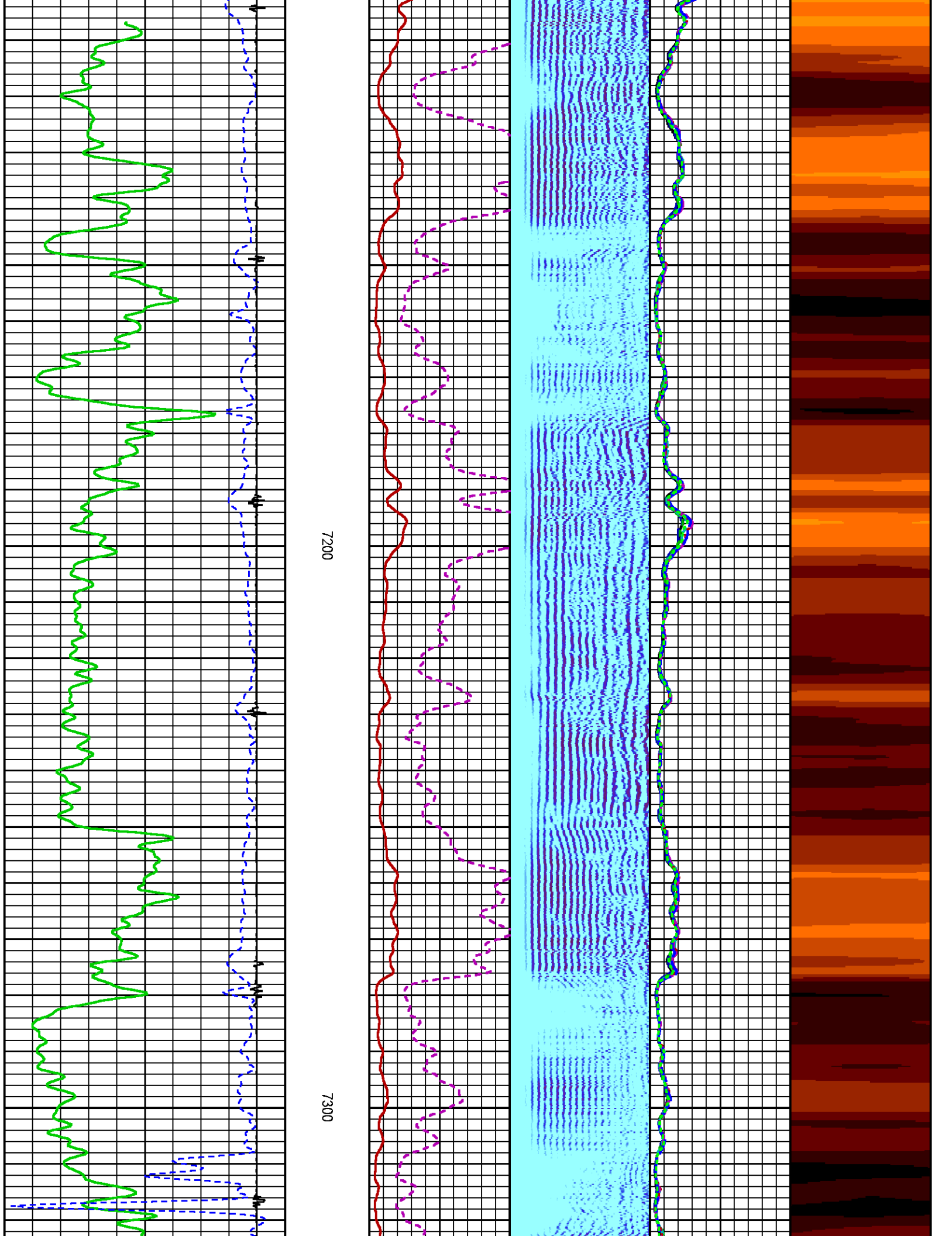
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
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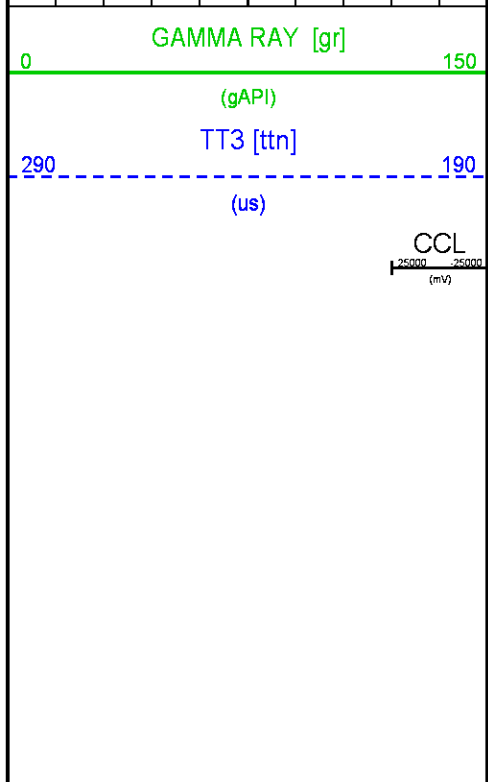
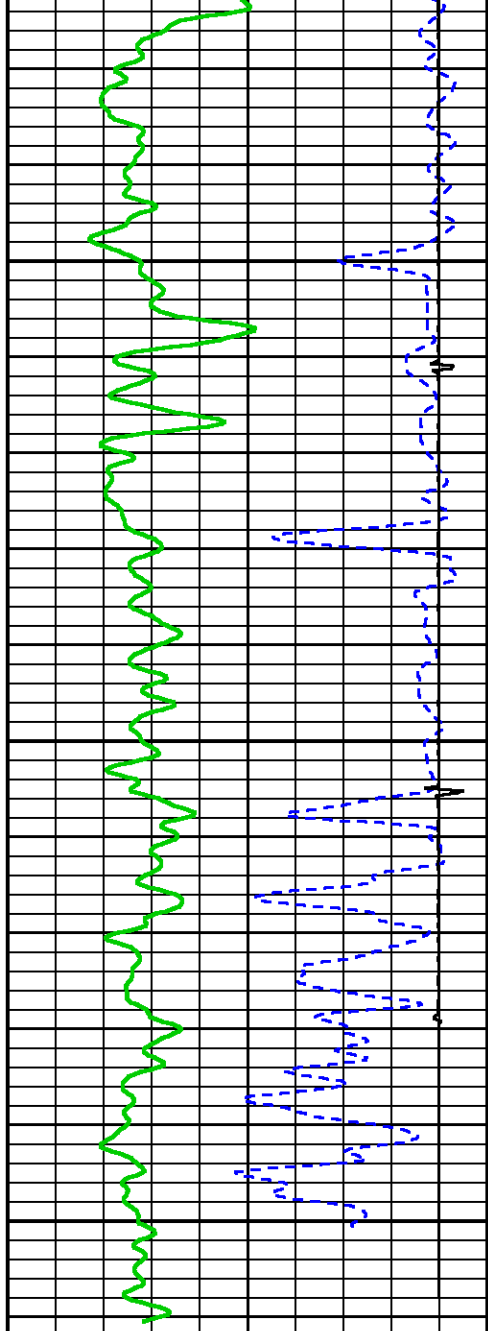
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AR2	11.25	AR6	11.25	FAMPN	11.25		
AR3	11.25	AR7	11.25	GR	1.75		
AR4	11.25	AR8	11.25	TTN	11.25		

Presentation : cpu100:GUNDERSON_20_05W_RAL_REPEAT.fvpdf [5"/100' Scale]
Plot Interval : 7094.25 - 7459.5 Feet

Data File 1 : F1 : cpu100:/dat1a/LARAMIE_GUNDERSON_20_05W/GUNDERSON_20_05W_RAL_RPT.xtf
Created On : Aug 25 14:06:08 2017
Company : LARAMIE ENERGY
Well : GUNDERSON 20-05W
Field : VEGA
File Interval : 7093.25 - 7460.75 Feet
OCT : n012g

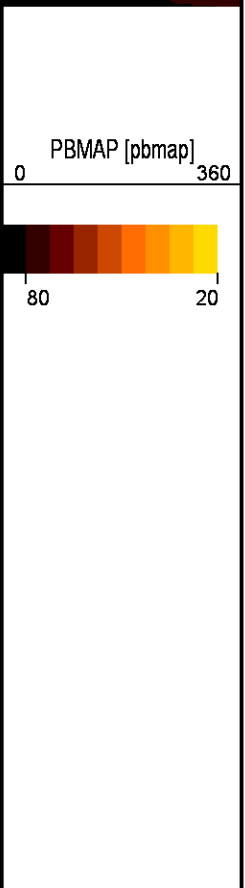
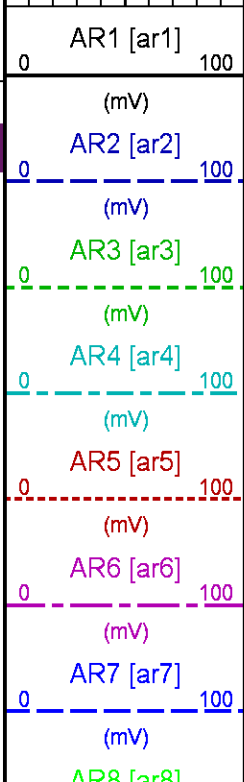
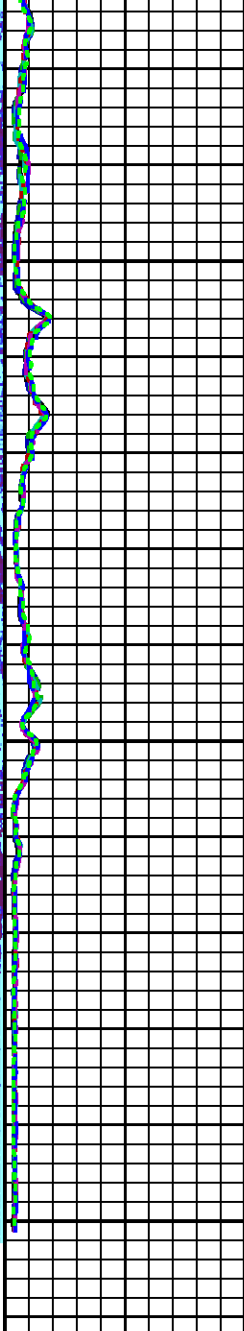
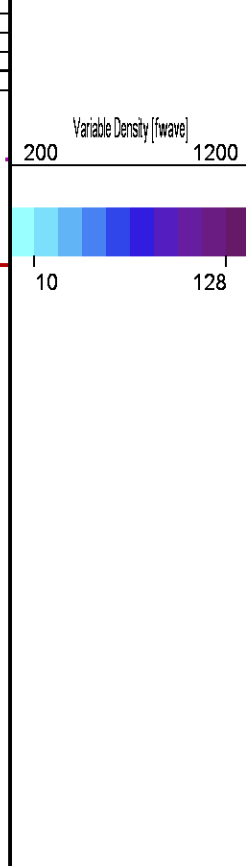
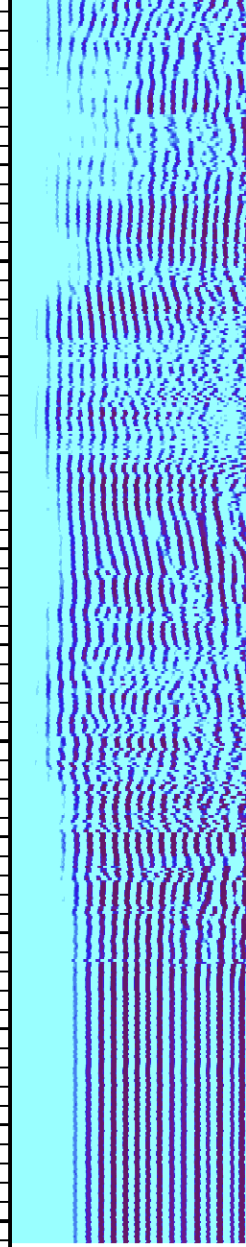
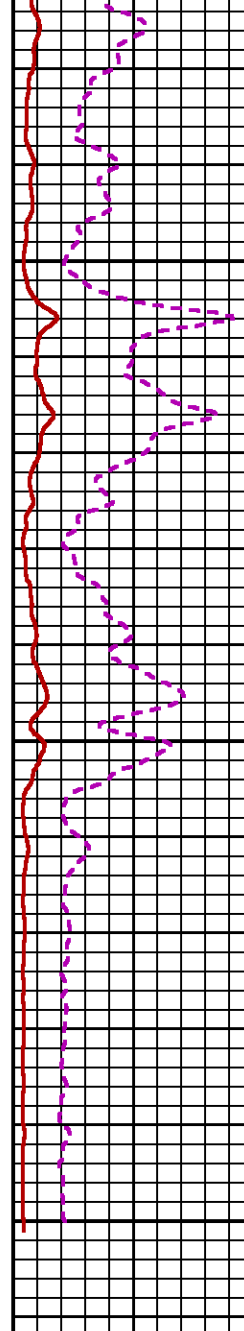






7400

FEET



CALIBRATION / VERIFICATION SUMMARY

Source File : /dat1a/LARAMIE_GUNDERSON_20_09/MH012g.tpt

RAL PRIMARY CALIBRATION SUMMARY

TOOL #:

1426XA10218496

DATE/TIME PERFORMED:

Wed Aug 23 08:23:52 2017

UNIT #:

3880TA HL6670

	NEAR	RADIAL	FAR
	(mV)	(mV)	(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 #:

1426XA10218496

DATE/TIME PERFORMED:

Wed Aug 23 08:24:49 2017

DAYS SINCE CAL:

0

UNIT #:

3880TA HL6670

CABLE #:

HL6670 6670SL

	NEAR	R1	R2	R3	R4	R5	R6	R7	R8	FAR	CAL
	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)	(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	SHOP	WIRELINE
	M FACTOR	A FACTOR	FACTOR
	1.19	0.00	1.00

GR PRIMARY CALIBRATION SUMMARY

TOOL #:

1355XA12670180

DATE/TIME PERFORMED:

Fri Dec 23 11:53:22 2016

UNIT #:

3880TA HL6670

CALB JIG #:

4702NK DA_228

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

GR PRIMARY VERIFICATION SUMMARY

TOOL #:

1355XA12670180

DATE/TIME PERFORMED:

Fri Dec 23 11:54:47 2016

UNIT #:

3880TA HL6670

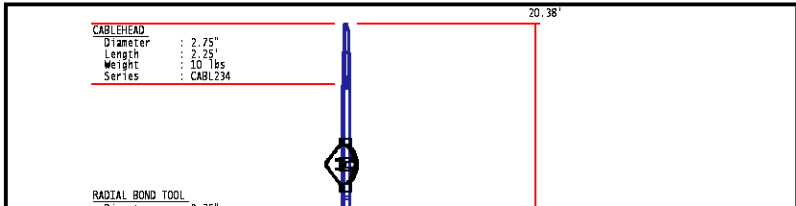
VERI JIG #:

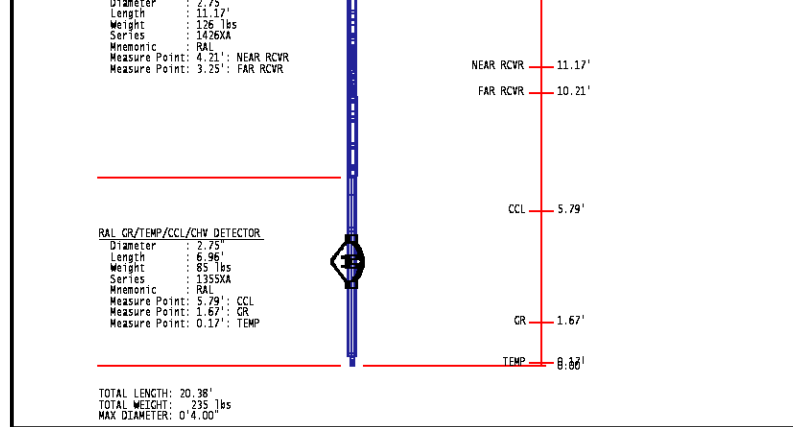
4702NK DA_228


	BACKGROUND	CALBRTR ON	MULT	BACKGROUND	CALBRTR ON	DIFF.
	(cts)	(cts)		(gAPI)	(gAPI)	(gAPI)
GR	77.11	254.76	0.584	45.03	148.77	103.74
						90.00 100.00

INSTRUMENT CONFIGURATION

Source File : /dat1a/LARAMIE_GUNDERSON_20_09/MRAL.tdg





	COMPANY <u>LARAMIE ENERGY</u>		FILE NO: _____
	WELL <u>GUNDERSON 20-05W</u>		API NO: _____
	FIELD <u>VEGA</u>		API NO: <u>05077103390000</u>
	COUNTY <u>MESA</u> STATE <u>COLORADO</u>		
LOCATION: <u>LAT:39.266864N;LONG:107.795317W</u> <u>BHL: LAT:39.266479N;LONG:107.797721W</u> SEC <u>20</u> TWP <u>9S</u> RGE <u>93W</u>		ELEVATIONS: KB 7176 FT DF 7176 FT GL 7146 FT	
		DATE <u>25-AUG-2017</u>	