



FILE NO: CH100249		COMPANY LARAMIE ENERGY	
WELL PICEANCE 28-08M			
API NO: 05077102450000		FIELD VEGA	
COUNTY MESA		STATE COLORADO	
Ver. 4.01		LOCATION:	
28-05 PAD		SHL: LAT 39.250933 LONG -107.779375	
PATTERSON 306		BHL: LAT 39.250153 LONG -107.774661	
SEC 28		TWP 9S RGE 93W	
PERMANENT DATUM		ELEVATION 7578 FT	
LOG MEASURED FROM		KB 7600 FT	
DRILL MEAS. FROM		DF 7578 FT	
GL 22 FT		GL 7578 FT	
DATE 17-OCT-2015			
RUN 1		TRIP 1	
SERVICE ORDER		US100249	
DEPTH DRILLER		8101 FT	
DEPTH LOGGER		7904 FT	
BOTTOM LOGGED INTERVAL		7894 FT	
TOP LOGGED INTERVAL		22 FT	
TIME STARTED		7:30	
TIME FINISHED		10:00	
OPERATOR RIG TIME		2.5 HOURS	
TYPE OF FLUID IN HOLE		WATER	
FLUID DENSITY		NA	
FLUID SALINITY		NA	
FLUID LEVEL		49 FT	
LOGGED CEMENT TOP		SEE LOG	
WELLHEAD PRESSURE		0 PSI	
MAXIMUM HOLE DEVIATION		NA	
NOMINAL LOGGING SPEED		100 FPM	
MAX. RECORDED TEMP.		228 DEGF	
REFERENCE LOG		NONE	
REFERENCE LOG DATE		NA	
EQUIP. NO.		HL-6670	
LOCATION		GRAND JCT.	
RECORDED BY		P. EDWARDS	
WITNESSED BY		JOHN GRUBICH	

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	22 FT	8101 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
4.5 IN	11.6 LB/F		22 FT	8101 FT

REMARKS
RUN 1 TRIP 1: This is the fist log on this well
Logged with zero PSI at wellhead.
BHT = 228 degF
SJ = 6289' - 6311'
SJ = 7146' - 7167'
THANK YOU FOR CHOOSING BAKER HUGHES ... THE BEST CHOICE!

EQUIPMENT DATA				
RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.
1	1	CD	110201	12121102

1	1	CBL	1426XA	10124106	CENTRALIZED
1	1	GR/CCL	1355XA	11871510	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: 6

Plotted: Sat Oct 17 10:30:23 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH100249/n012g02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 6.250 ft BOTTOM DEPTH: 7911.389 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*)	185	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	185	us	"	"
	AMP WINDOW START (fgp3*)	185	us	"	"
	AMP WINDOW START (fgp4*)	185	us	"	"
	AMP WINDOW START (fgp5*)	185	us	"	"
	AMP WINDOW START (fgp6*)	185	us	"	"
	AMP WINDOW START (fgp7*)	185	us	"	"
	AMP WINDOW START (fgp8*)	185	us	"	"
	AMP WINDOW START (fgpn*)	185	us	"	"
TRAVEL TIME WINDOW (NEAR)	AMP WINDOW LENGTH	30	us	"	"
	TT WINDOW START (ttn*)	170	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*)	-74	us	"	"
	TOOL DELAY (str2*)	-74	us	"	"
	TOOL DELAY (str3*)	-74	us	"	"
	TOOL DELAY (str4*)	-74	us	"	"
	TOOL DELAY (str5*)	-74	us	"	"
	TOOL DELAY (str6*)	-74	us	"	"
	TOOL DELAY (str7*)	-74	us	"	"
	TOOL DELAY (str8*)	-74	us	"	"
	TOOL DELAY (strn*)	-74	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	"	"

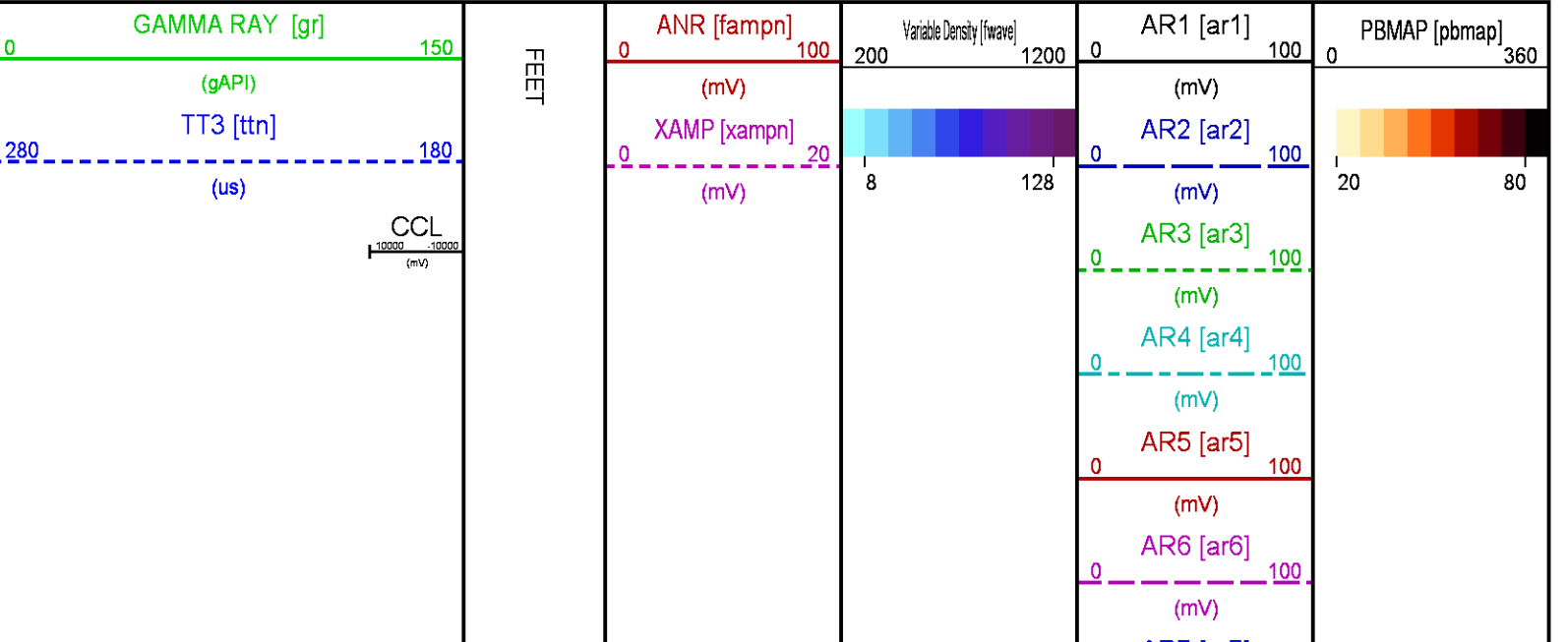
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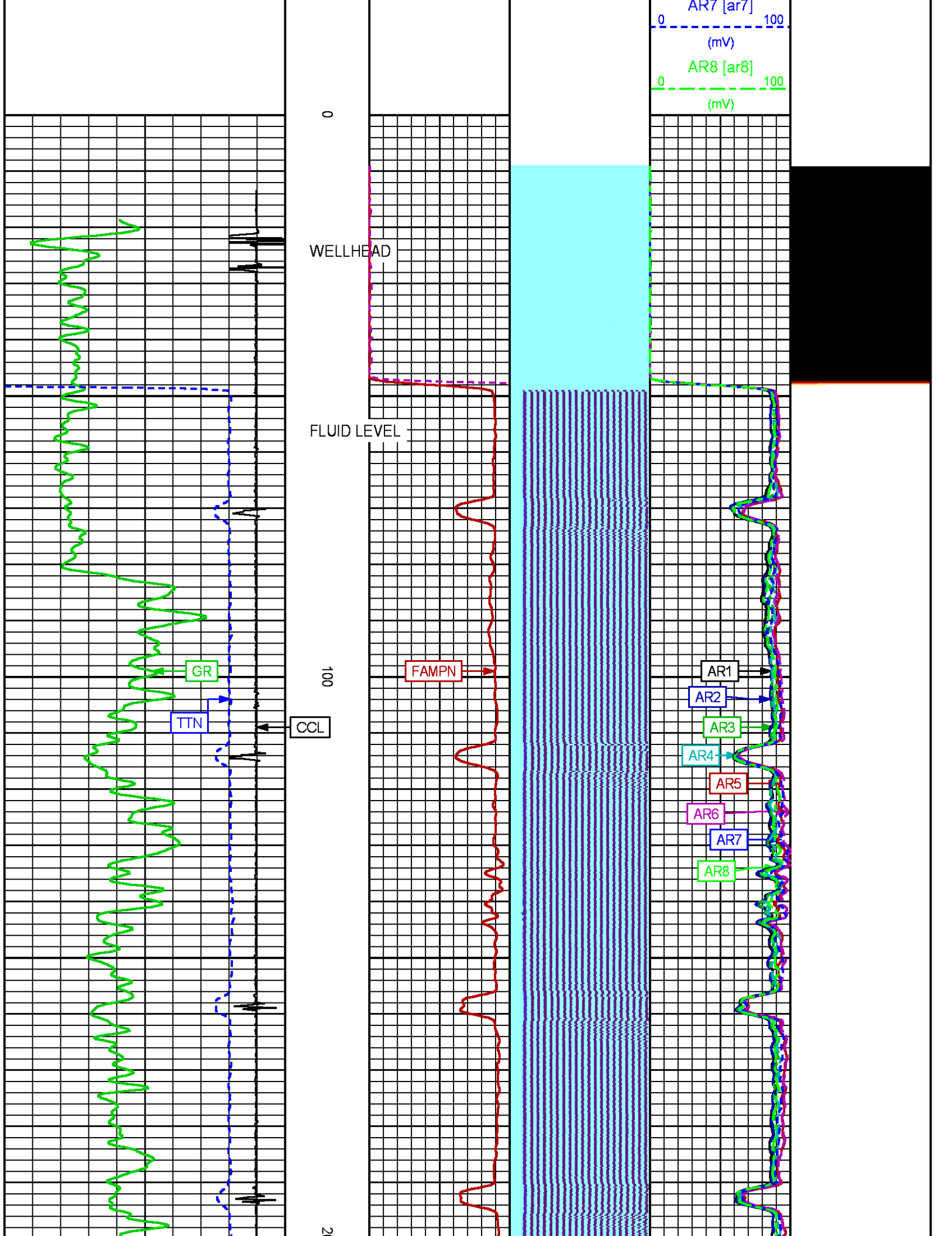
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
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F1:AR2	Oct 17 08:33:25 2015	FIXED GATE AMPLITUDE T-R2
F1:AR3	Oct 17 08:33:25 2015	FIXED GATE AMPLITUDE T-R3
F1:AR4	Oct 17 08:33:25 2015	FIXED GATE AMPLITUDE T-R4
F1:AR5	Oct 17 08:33:25 2015	FIXED GATE AMPLITUDE T-R5
F1:AR6	Oct 17 08:33:25 2015	FIXED GATE AMPLITUDE T-R6
F1:AR7	Oct 17 08:33:25 2015	FIXED GATE AMPLITUDE T-R7
F1:AR8	Oct 17 08:33:25 2015	FIXED GATE AMPLITUDE T-R8
F1:CCL	Oct 17 08:33:25 2015	CASING COLLAR LOCATOR
F1:FAMPN	Oct 17 08:33:25 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Oct 17 08:33:25 2015	FAR WAVE FORM
F1:GR	Oct 17 08:33:25 2015	GAMMA RAY
F1:PBMAP	Oct 17 08:33:25 2015	PERCENT BOND CEMENT MAP
F1:TTN	Oct 17 08:33:25 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Oct 17 08:33:25 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

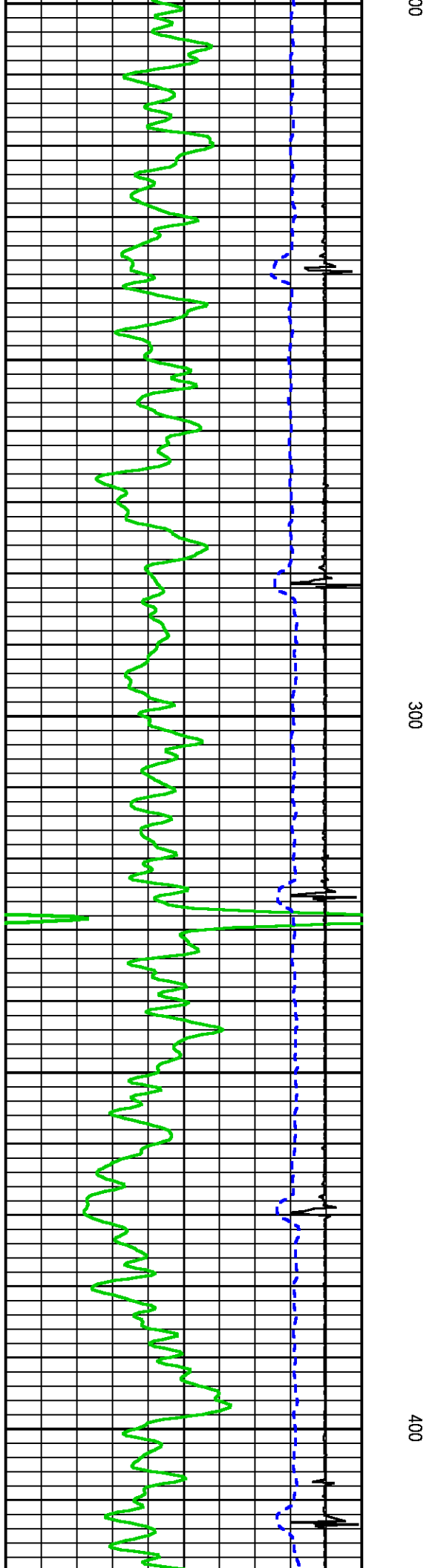
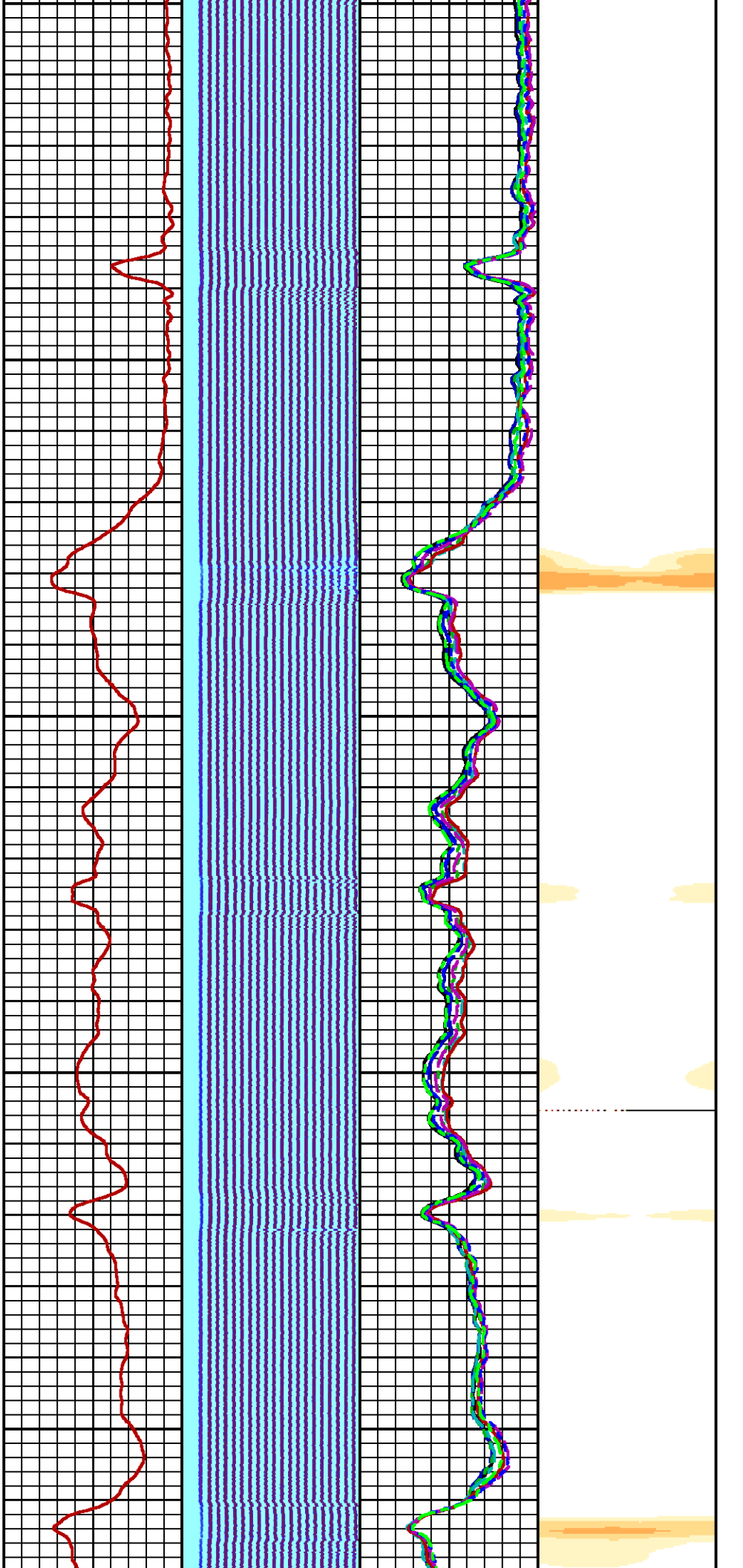
CURVE MEASURE POINT OFFSET

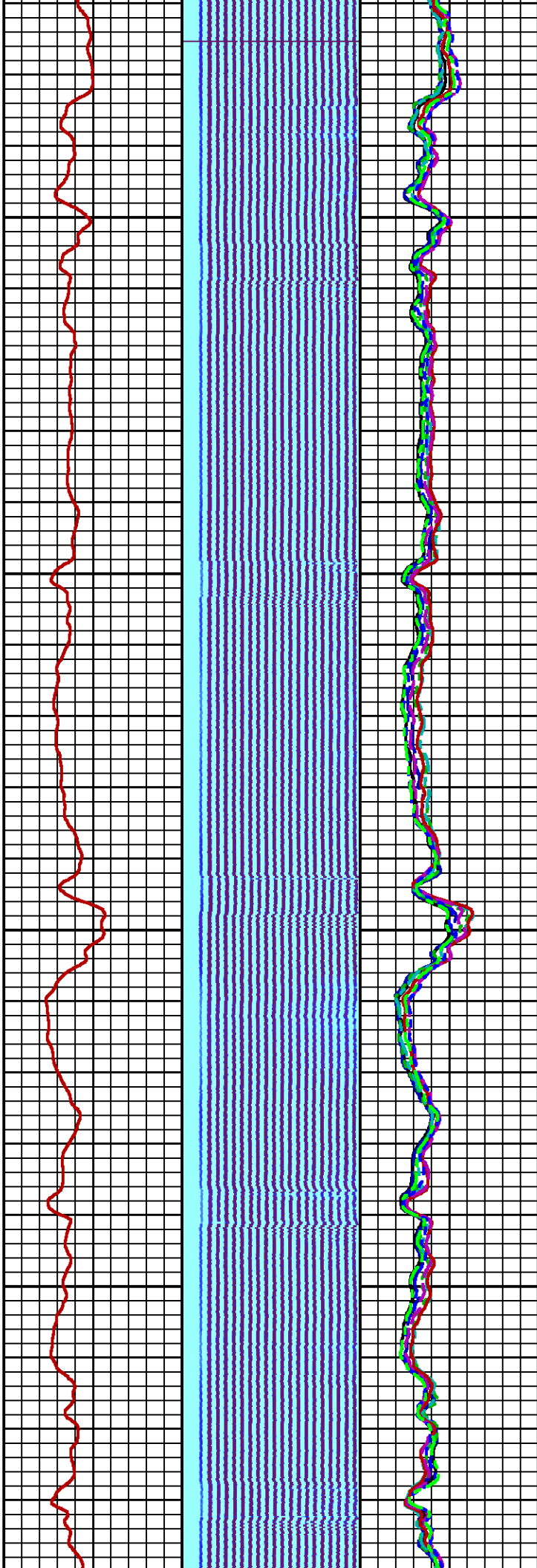
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	11.25	AR5	11.25	CCL	5.75	XAMPN	11.25
AR2	11.25	AR6	11.25	FAMPN	11.25		
AR3	11.25	AR7	11.25	GR	1.75		
AR4	11.25	AR8	11.25	TTN	11.25		

Presentation	: HL6670:/dat1a/CH100249/8M_CBL_MAIN.fvpdf [5"/100' Scale]
Plot Interval	: 0 - 7904 Feet
Data File 1	: F1 : HL6670:/dat1a/CH100249/n012g02MAIN08M.xtf
Created On	: Oct 17 08:33:25 2015
Company	: LARAMIE ENERGY
Well	: PICEANCE 28_08M
Field	: VEGA
File Interval	: 8 - 7919.75 Feet
OCT	: n012g



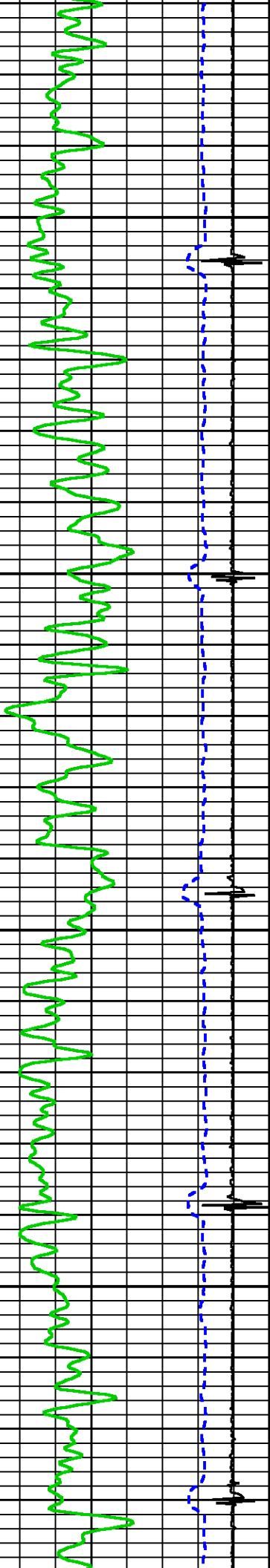


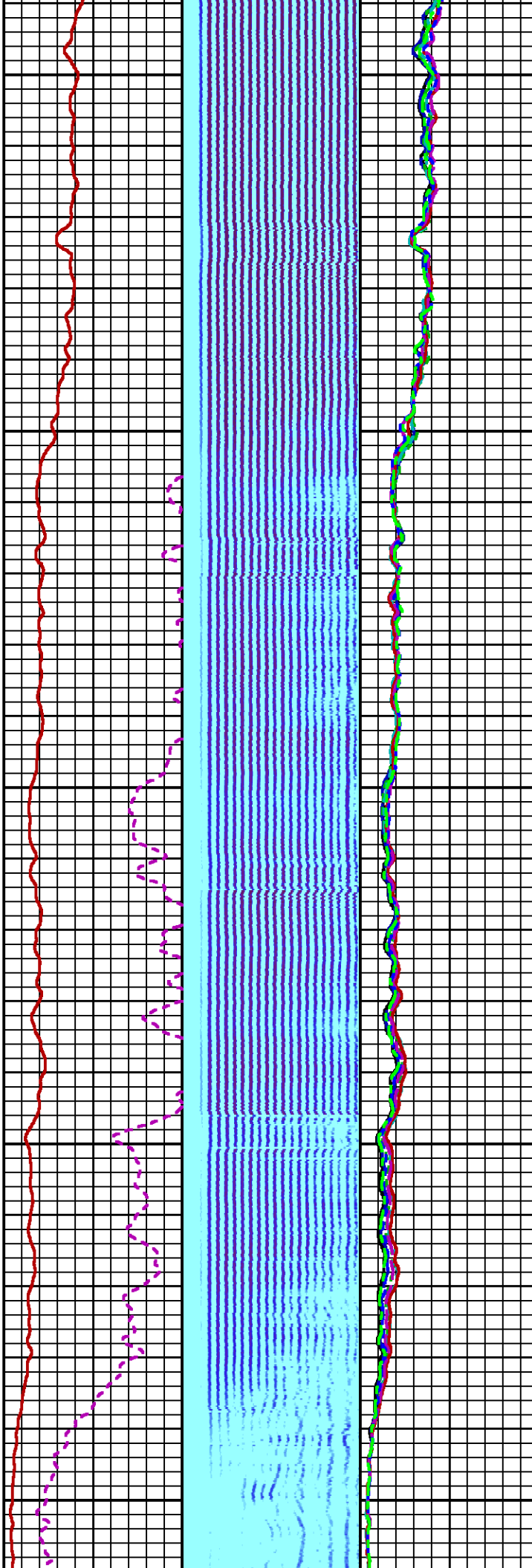
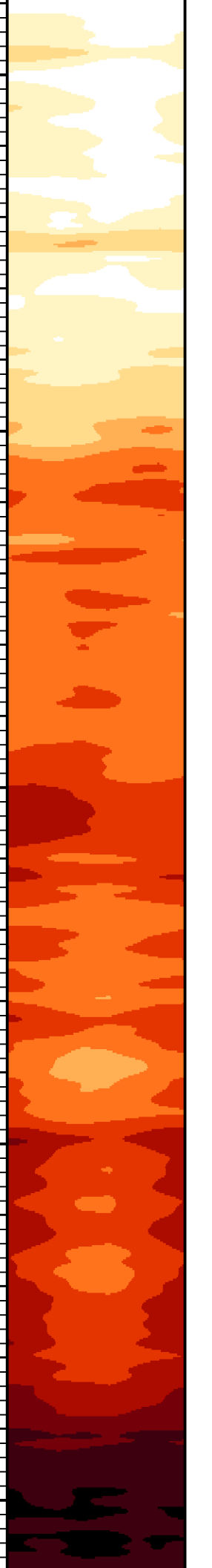




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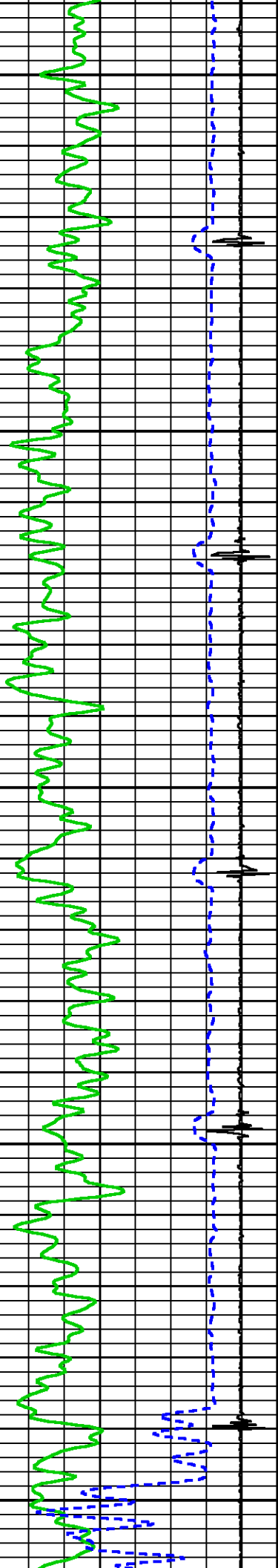
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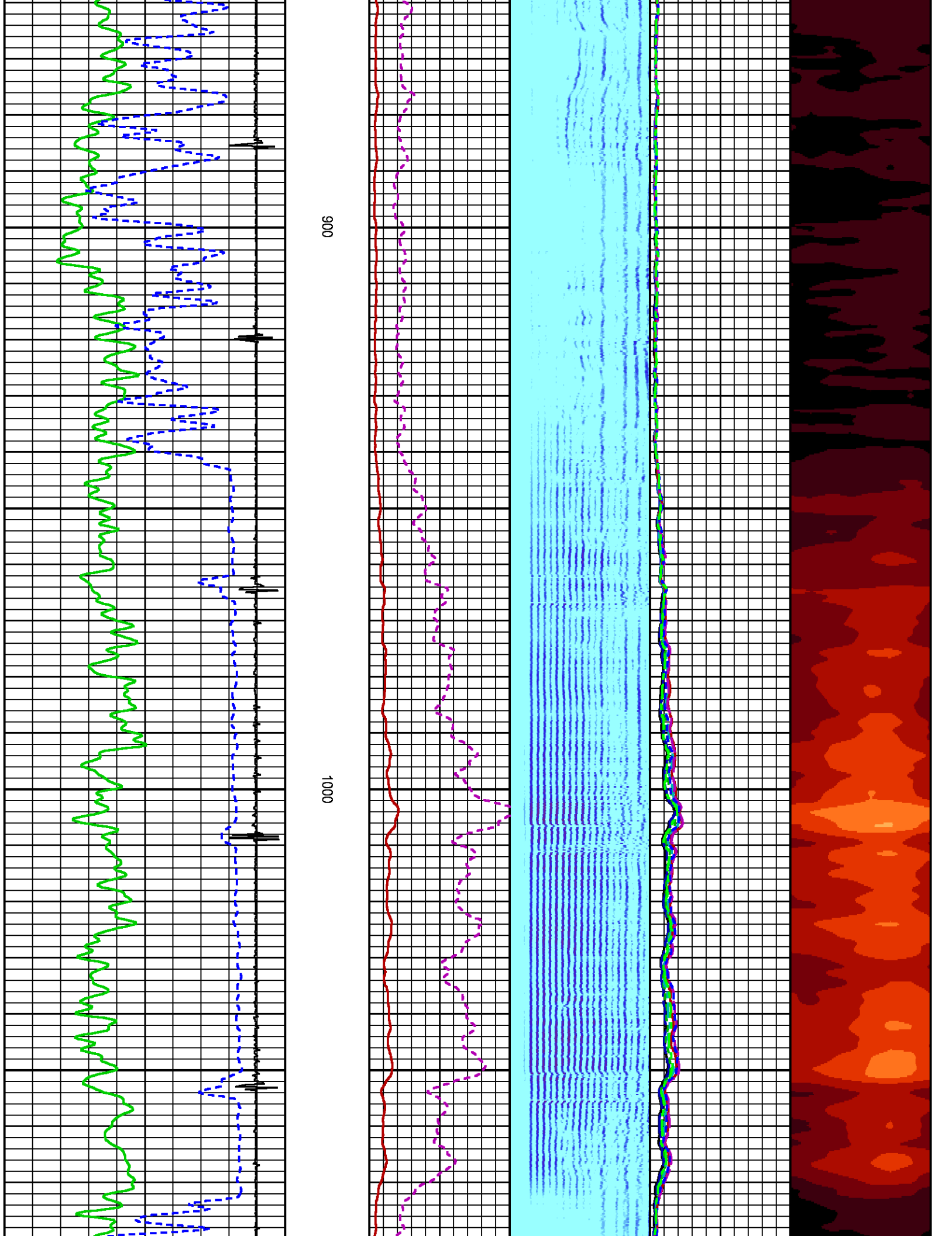


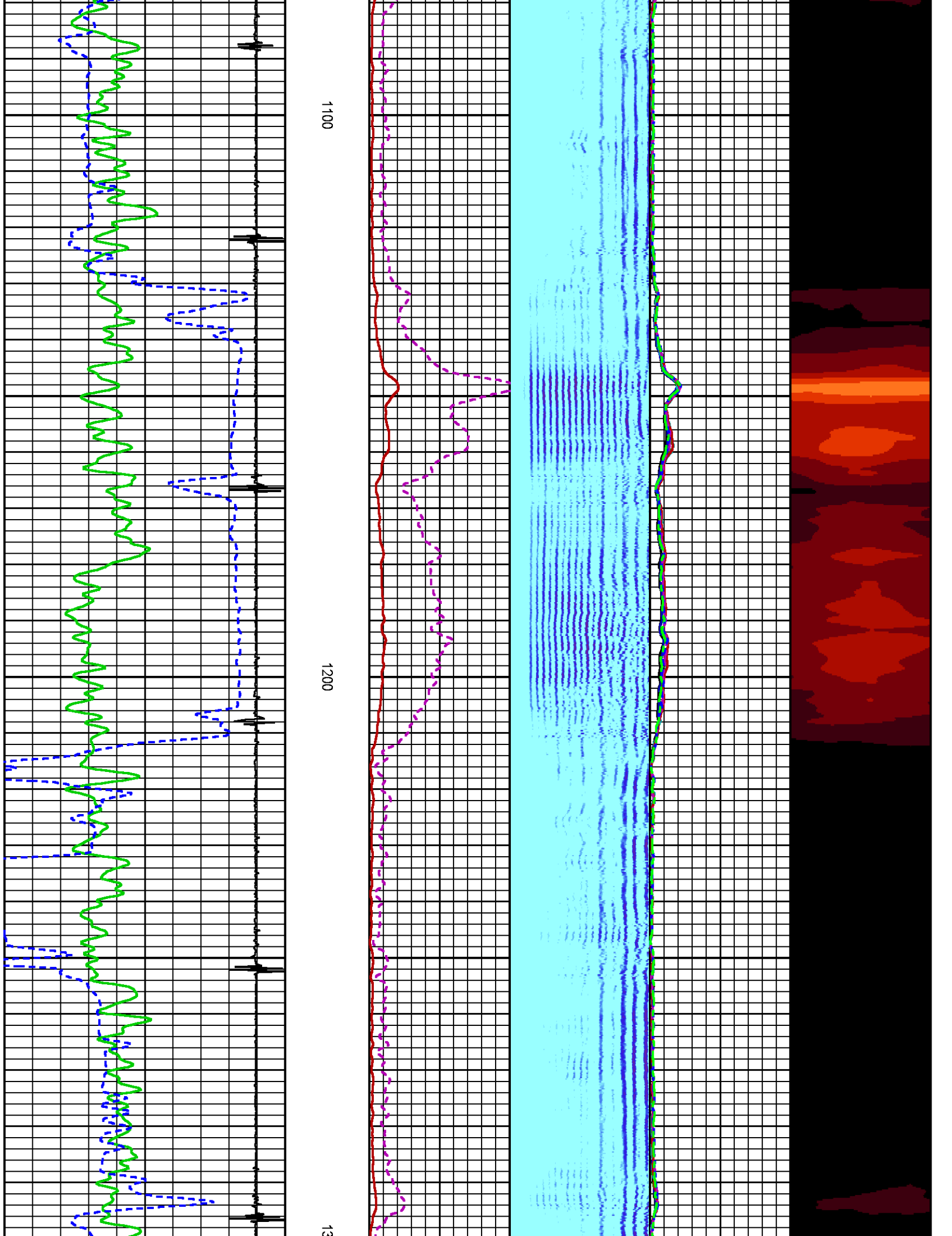


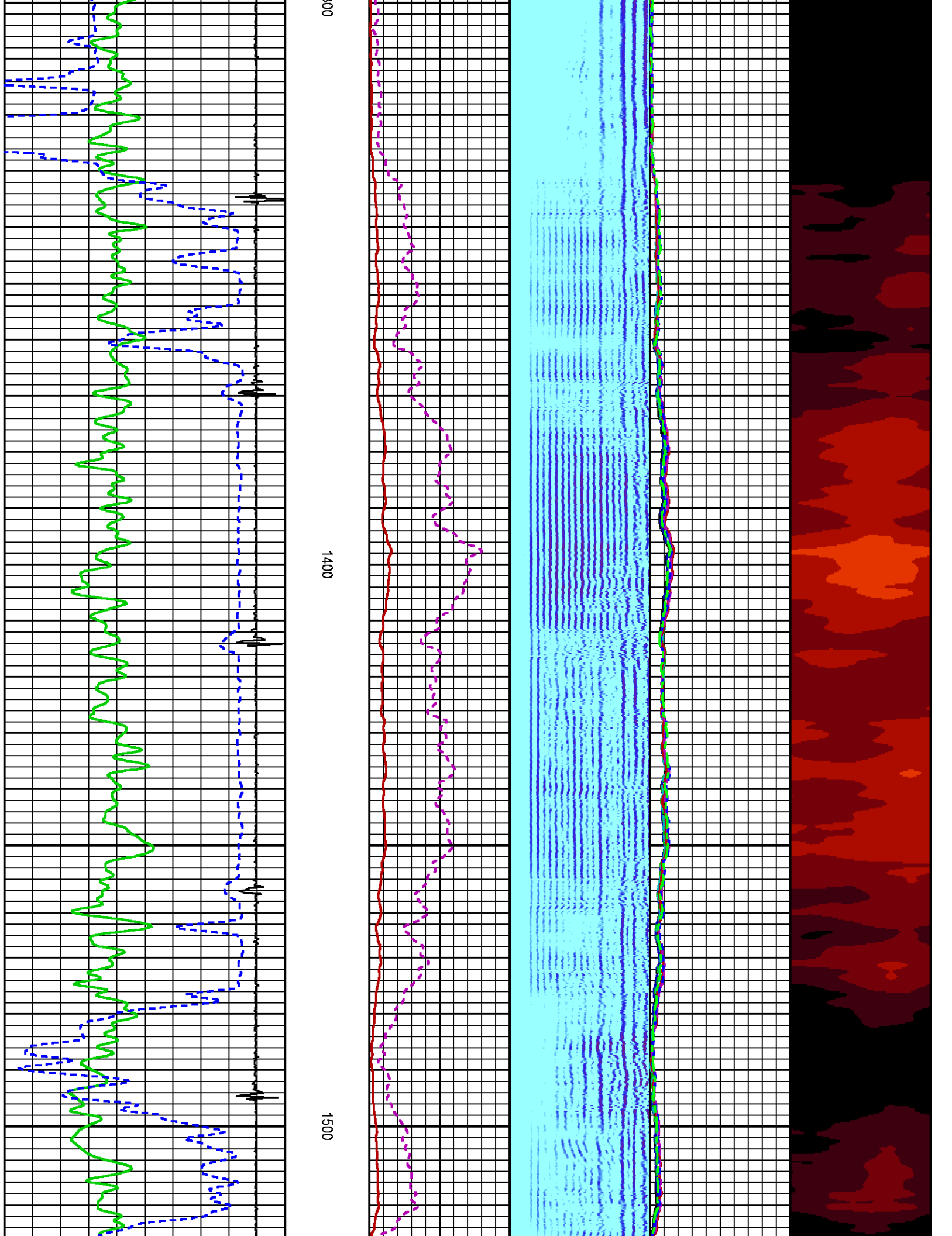
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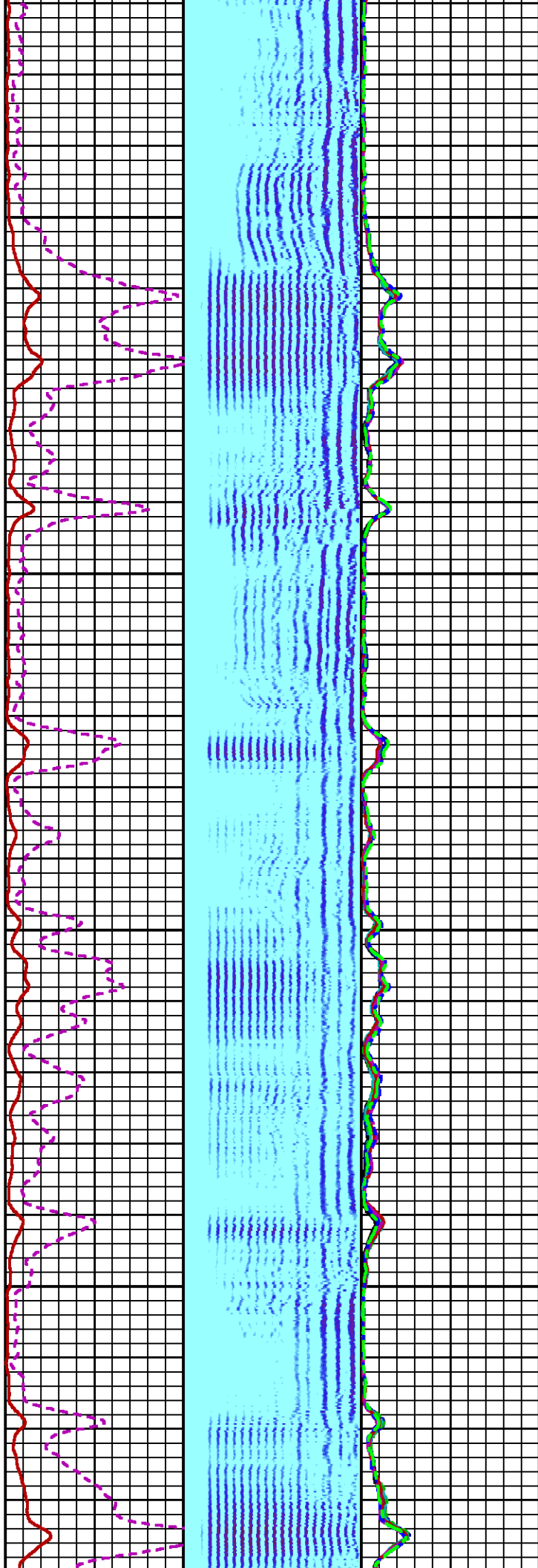
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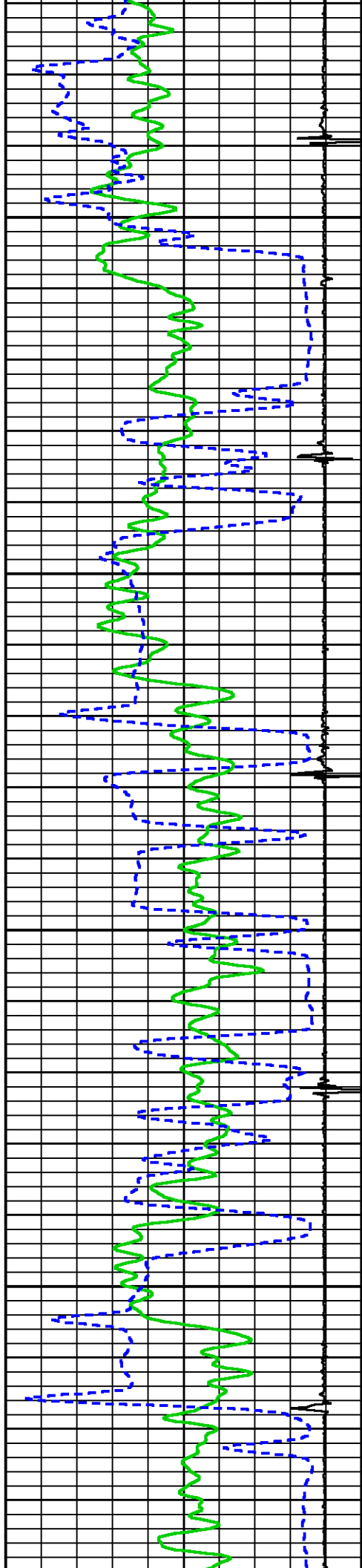


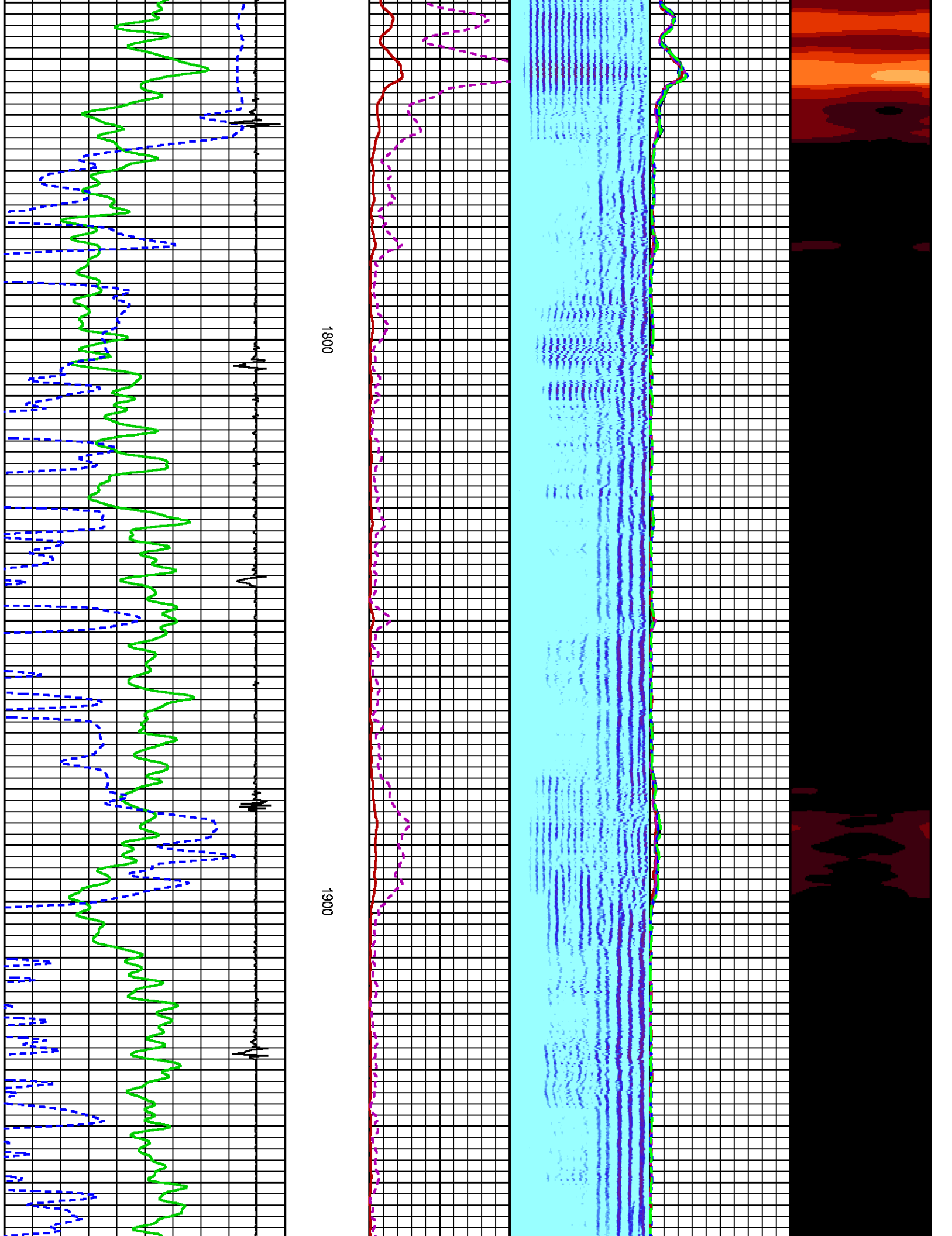


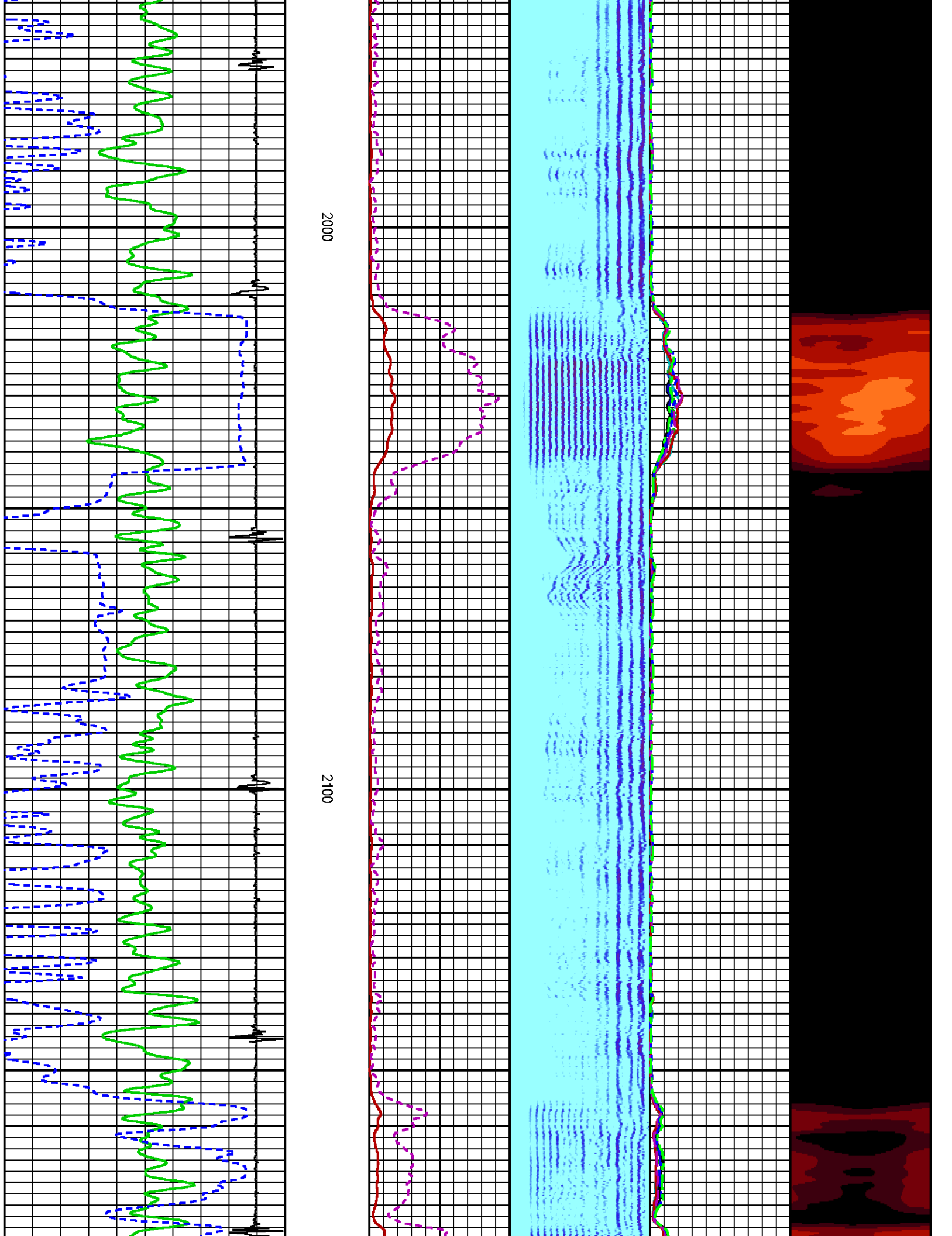


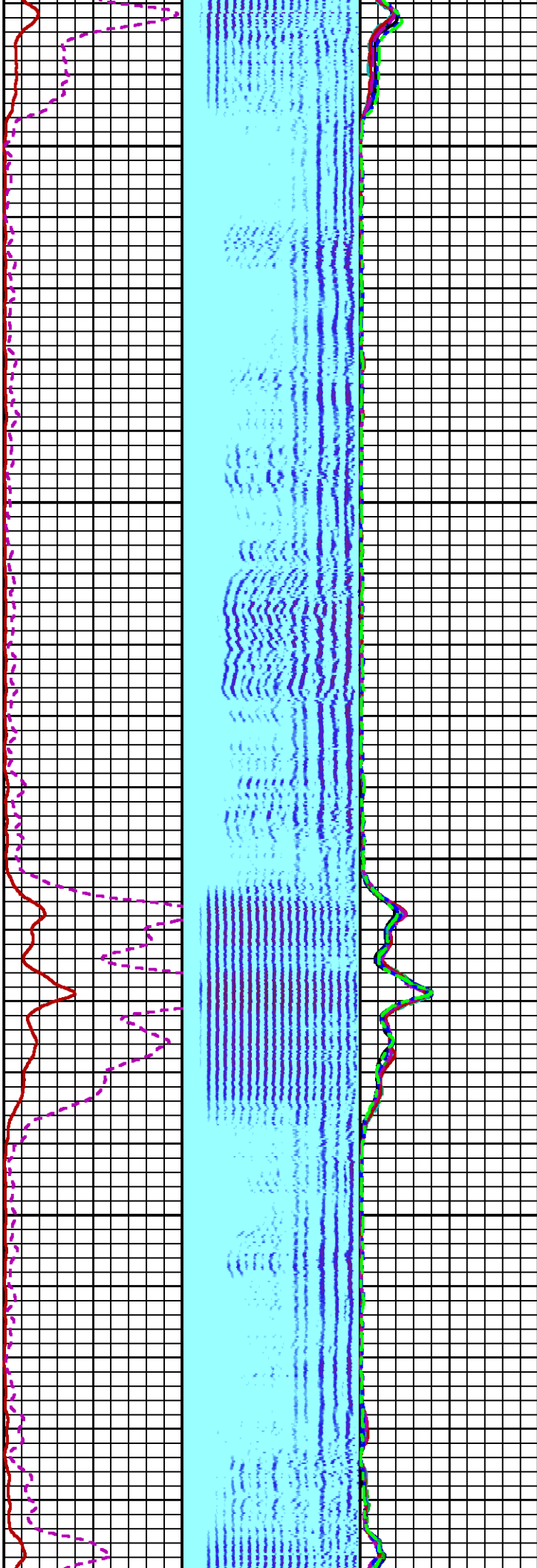
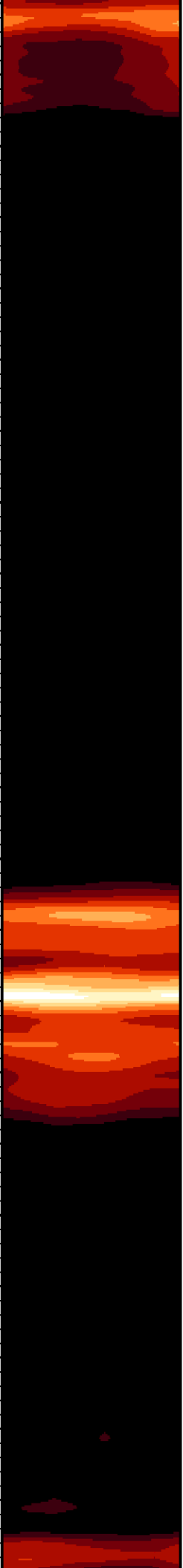
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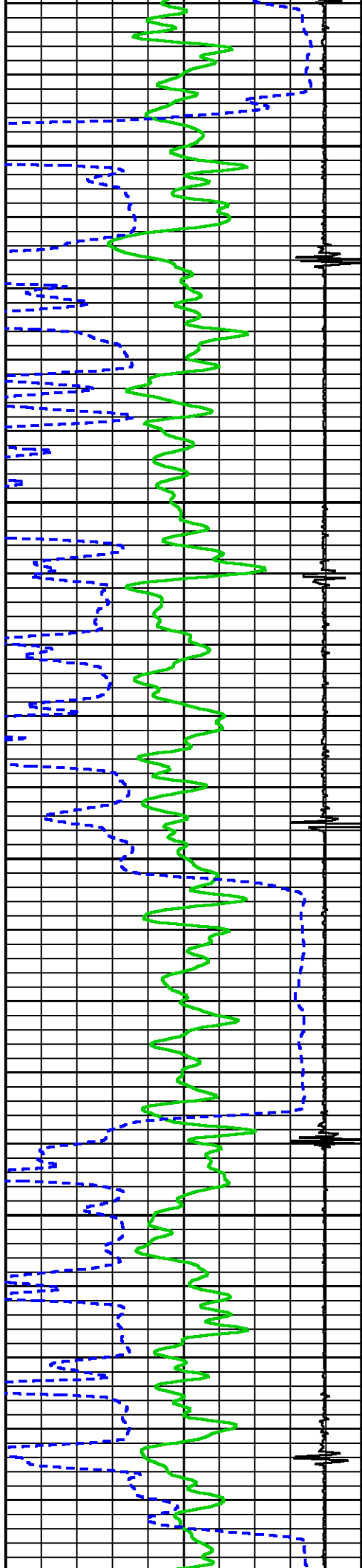


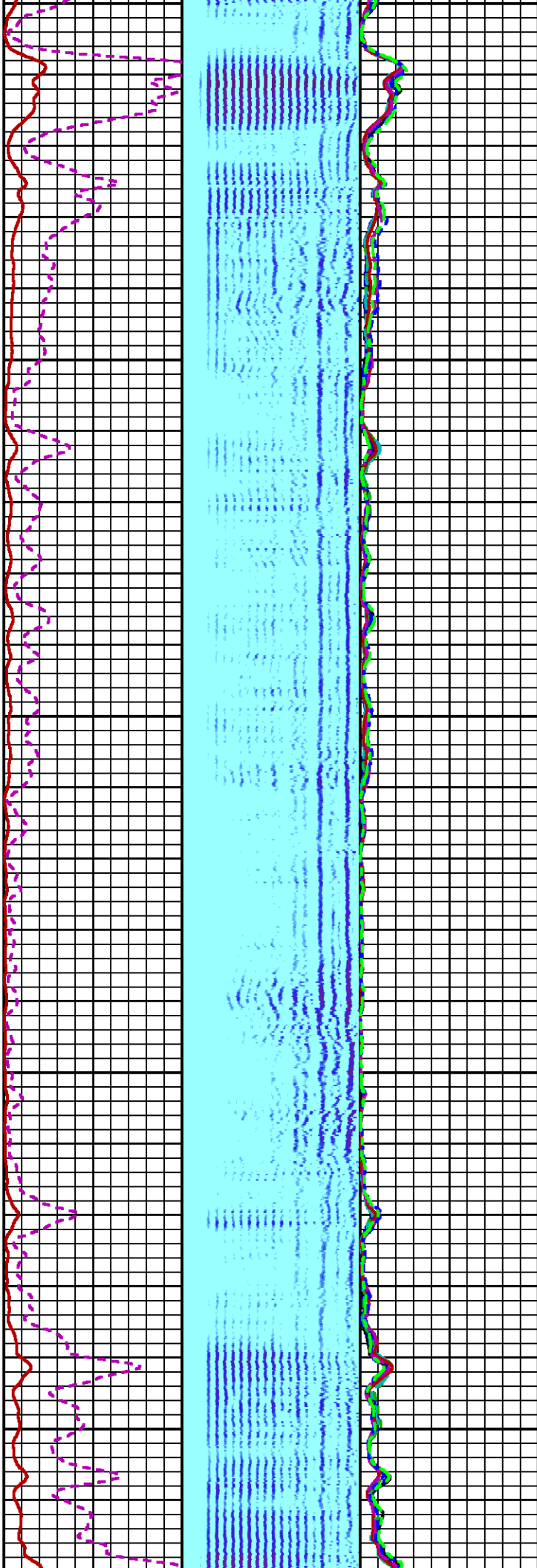
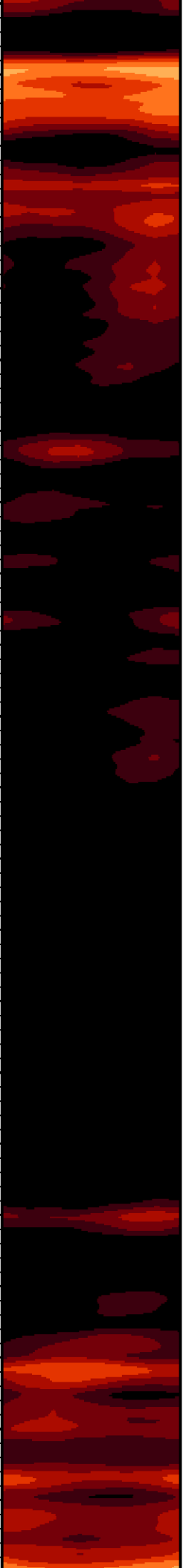


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2300

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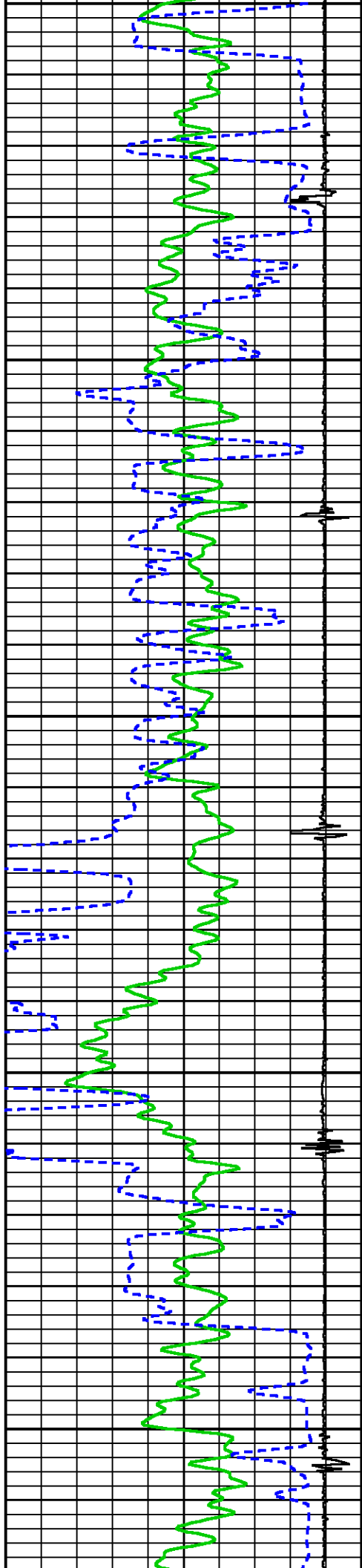


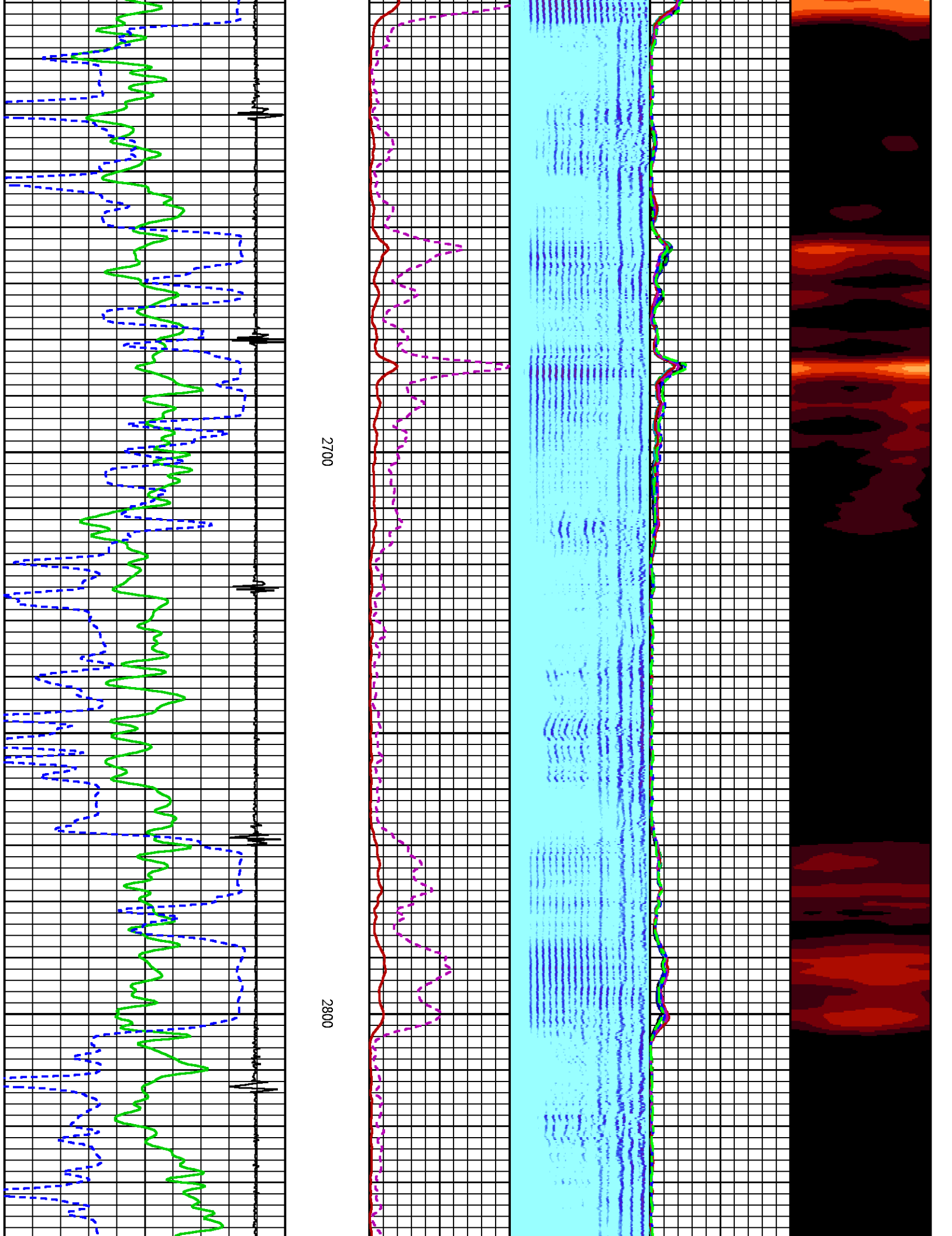


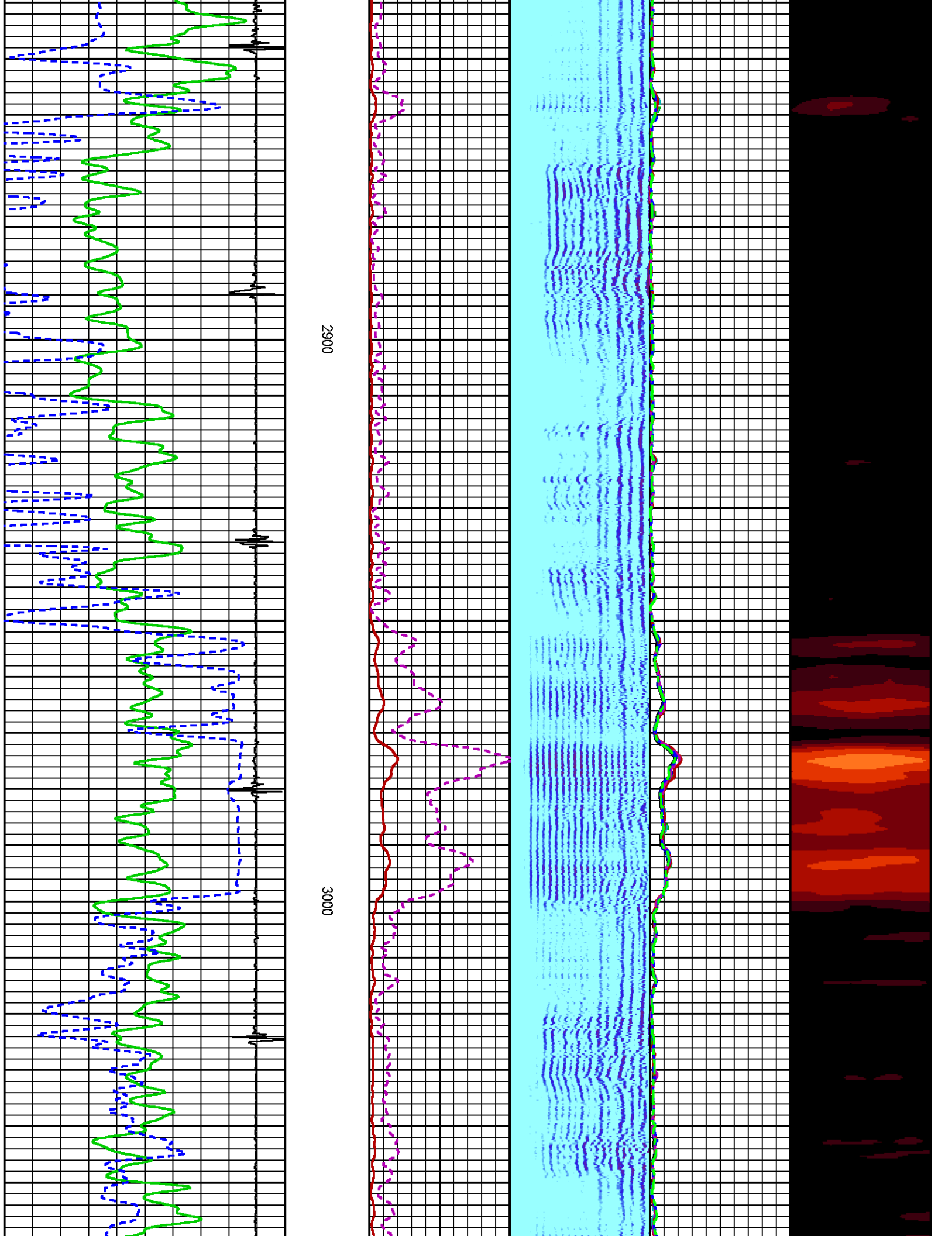
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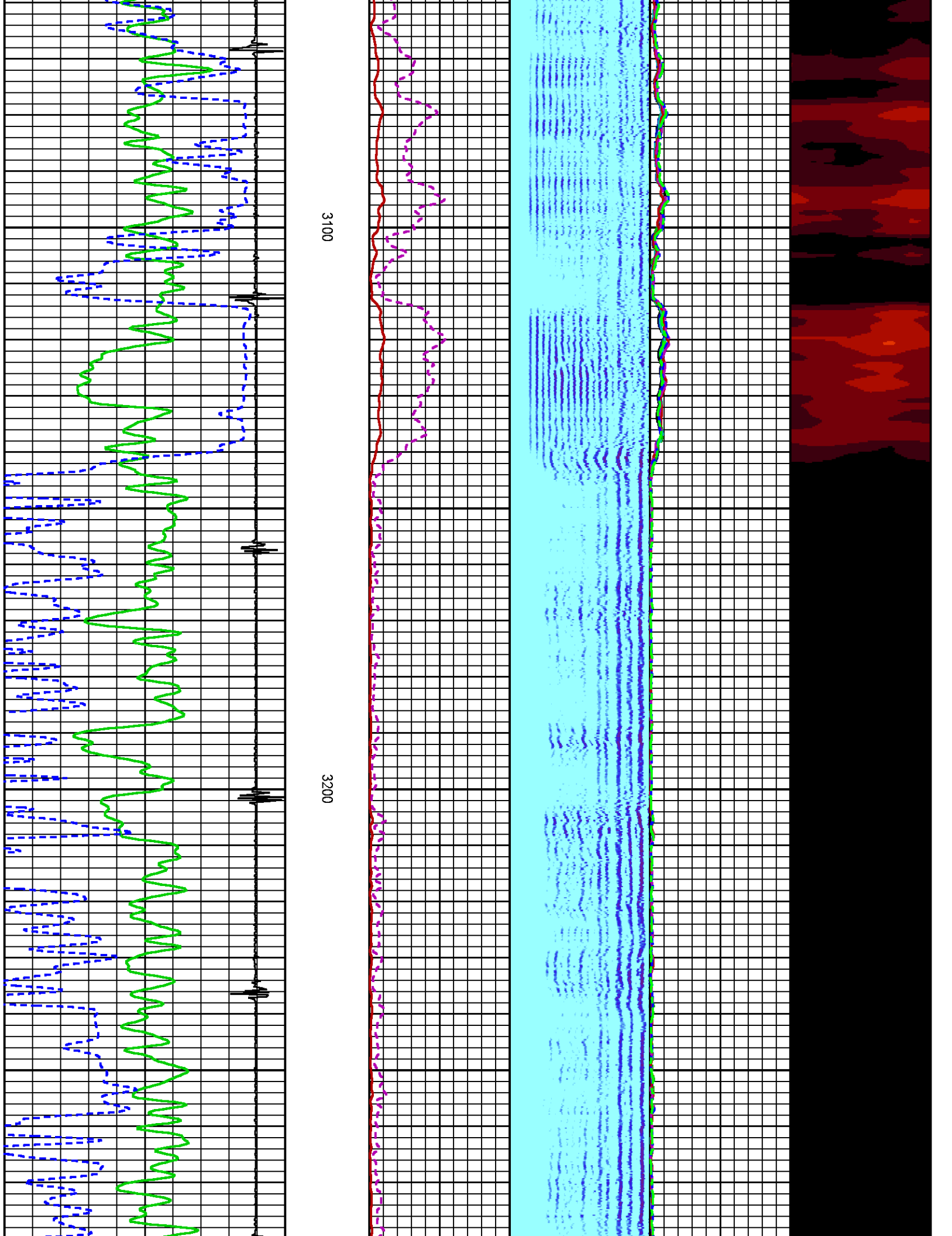
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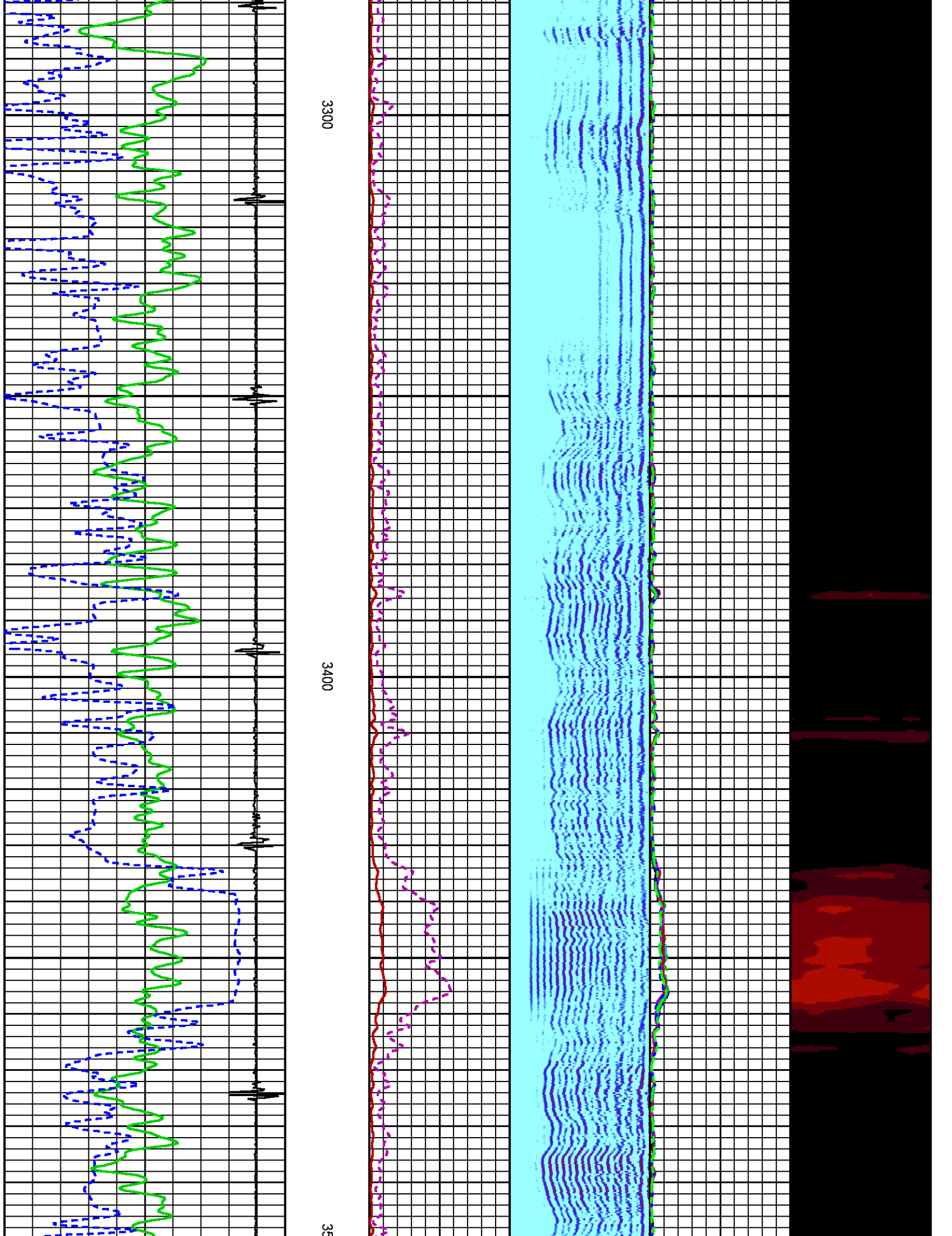
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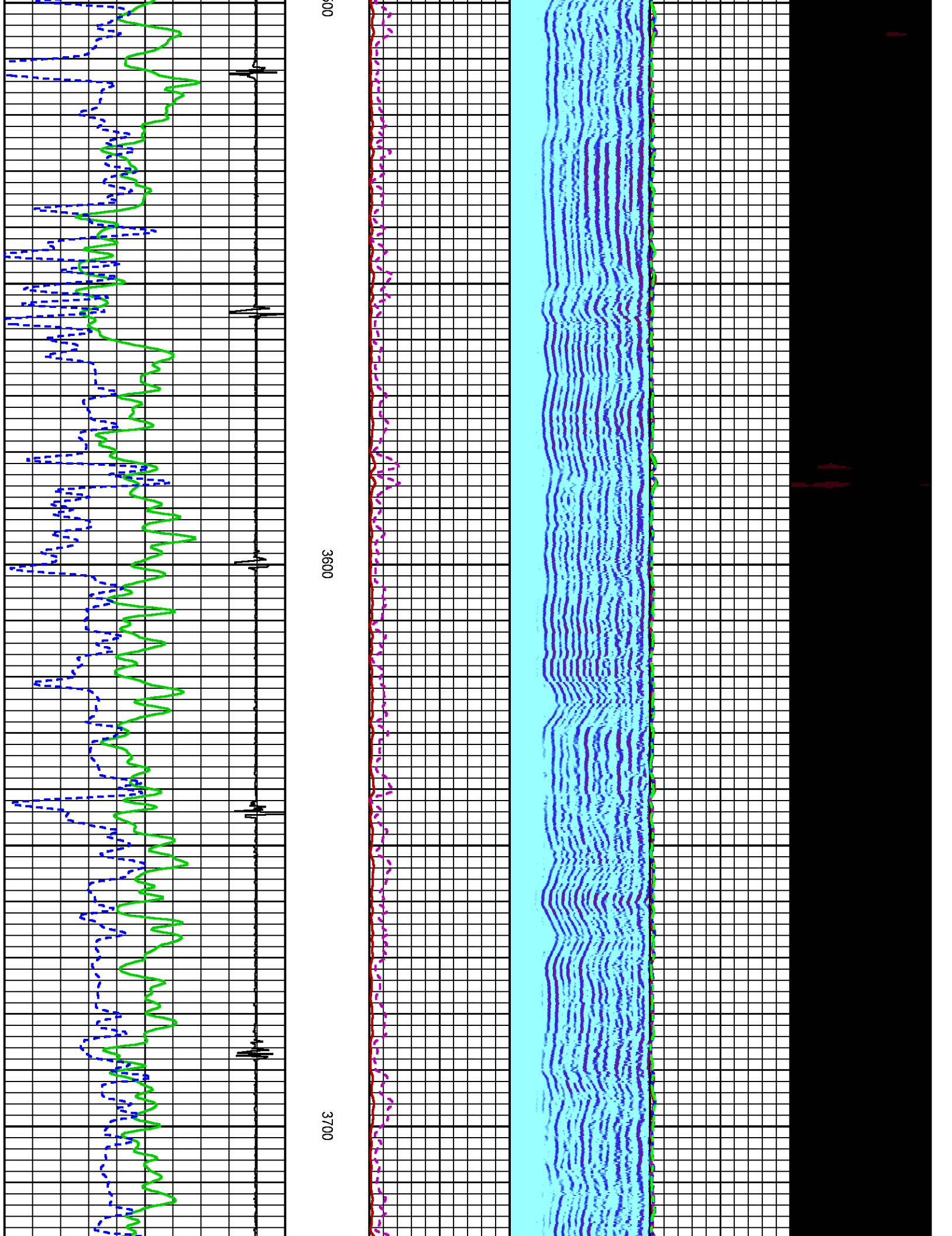


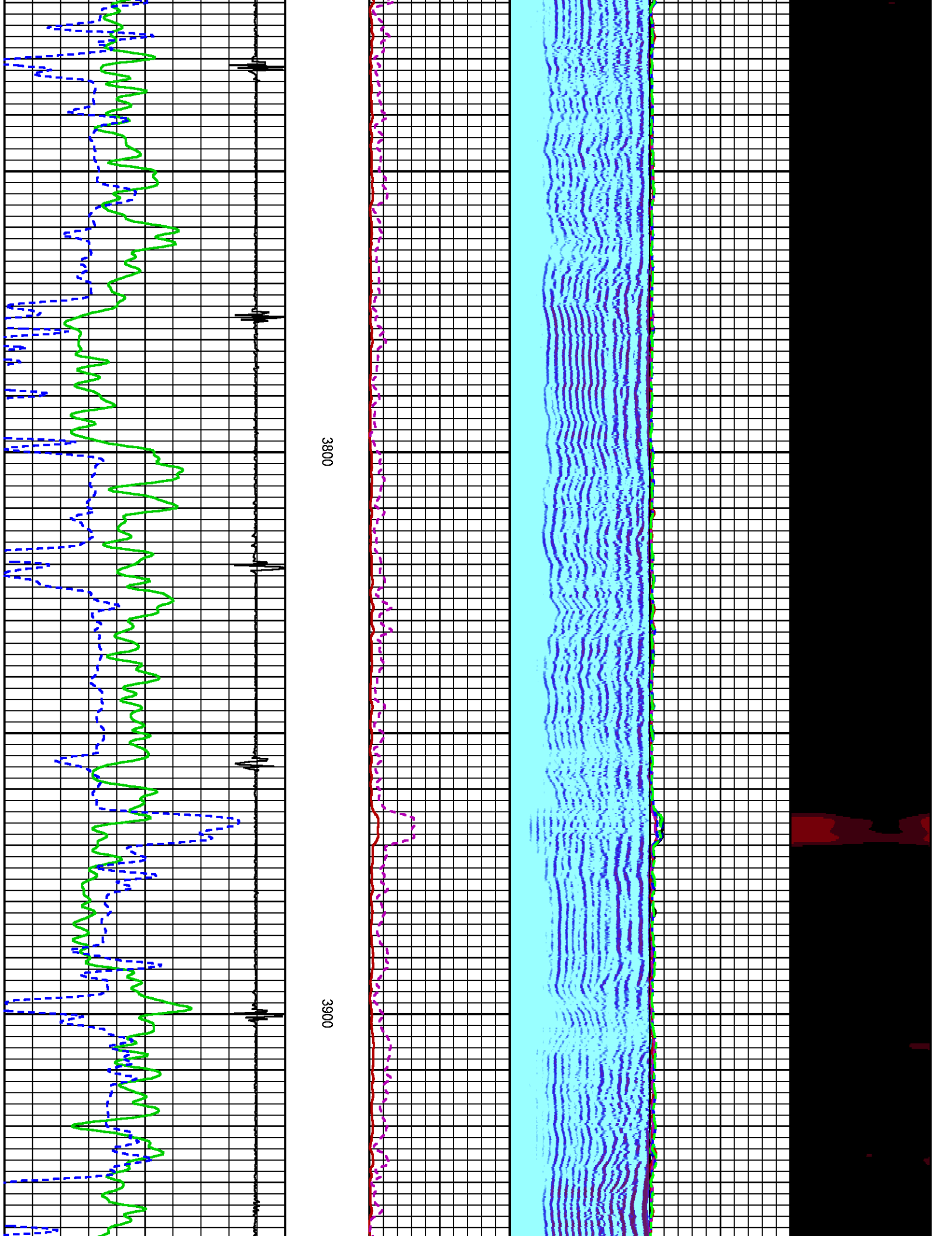


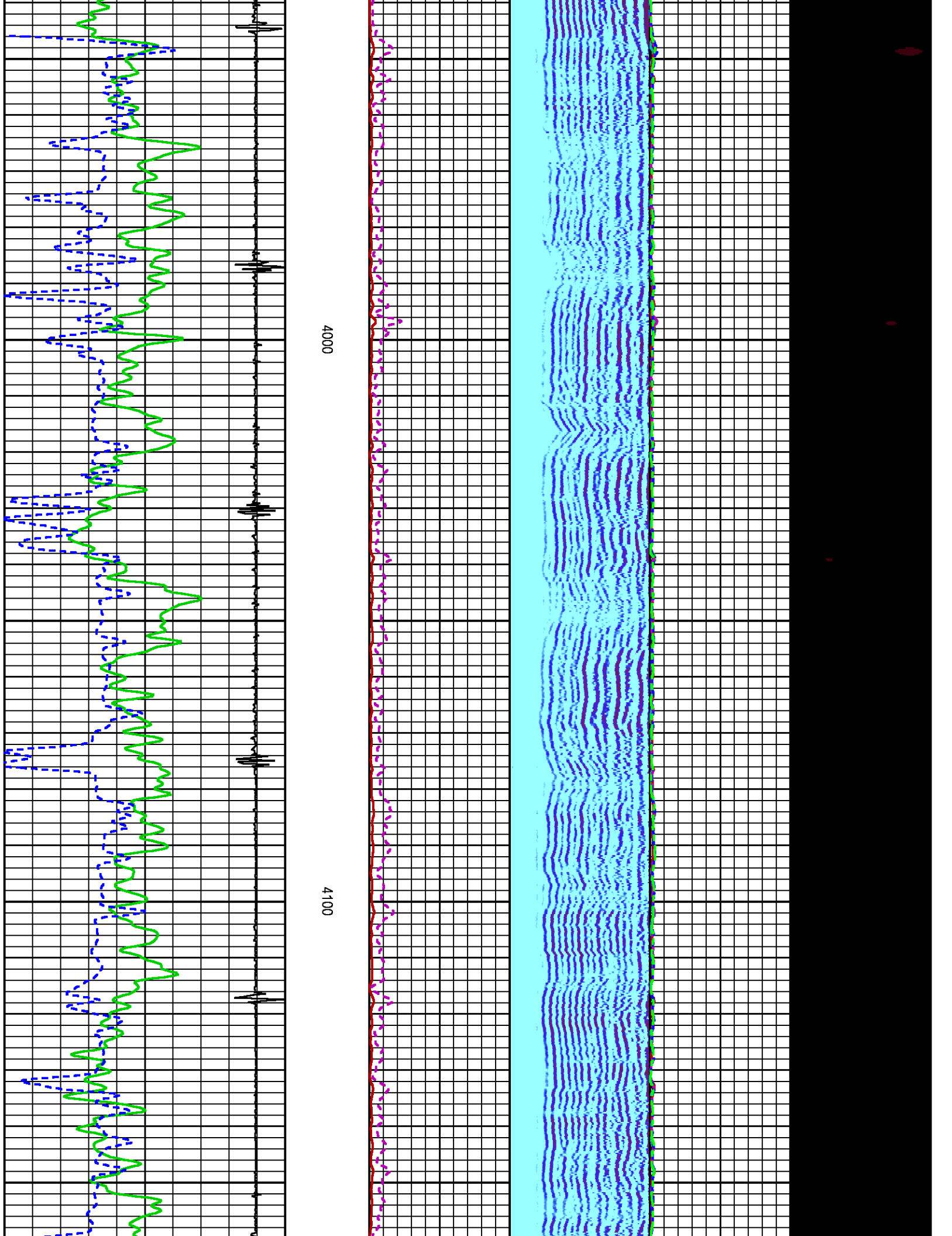


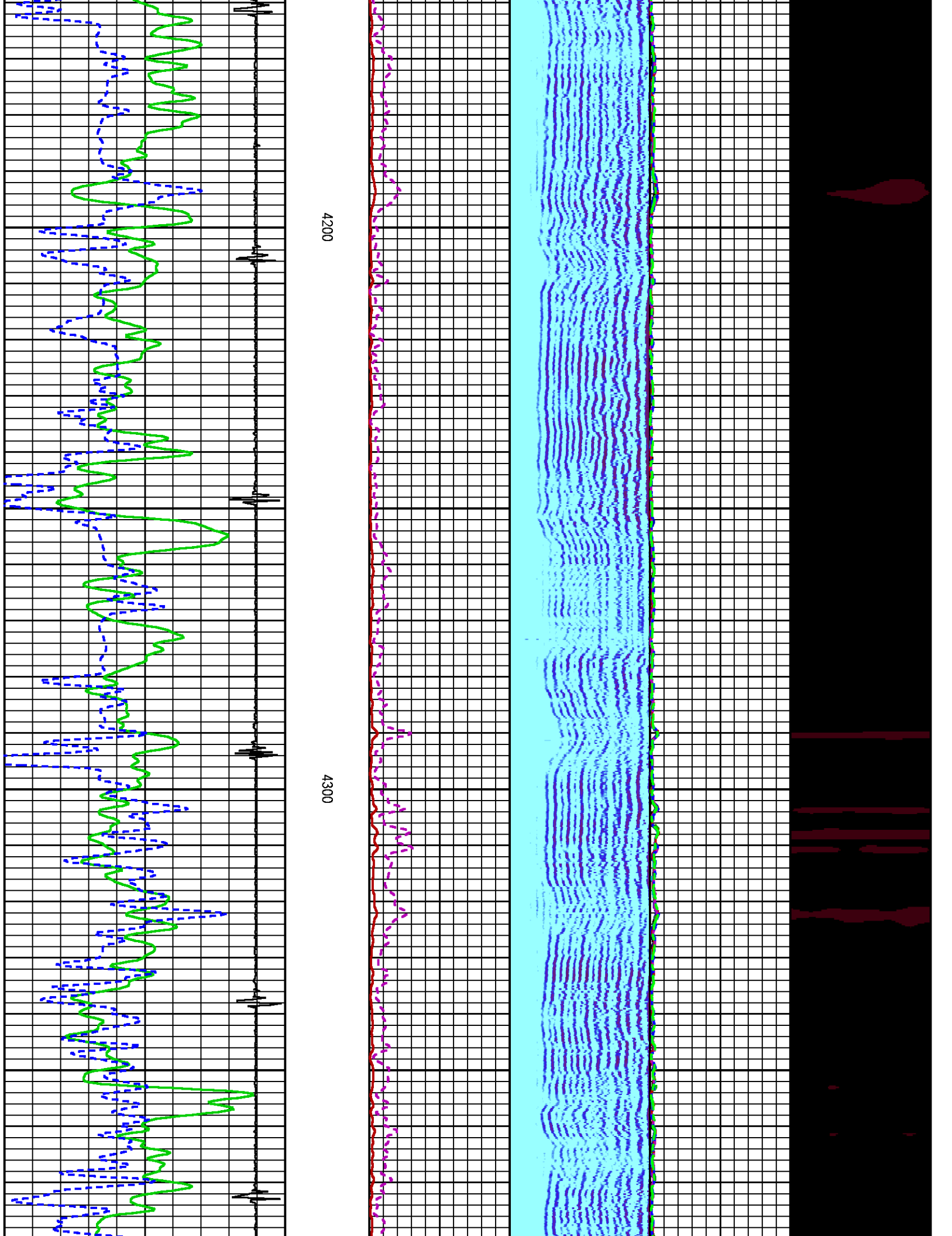


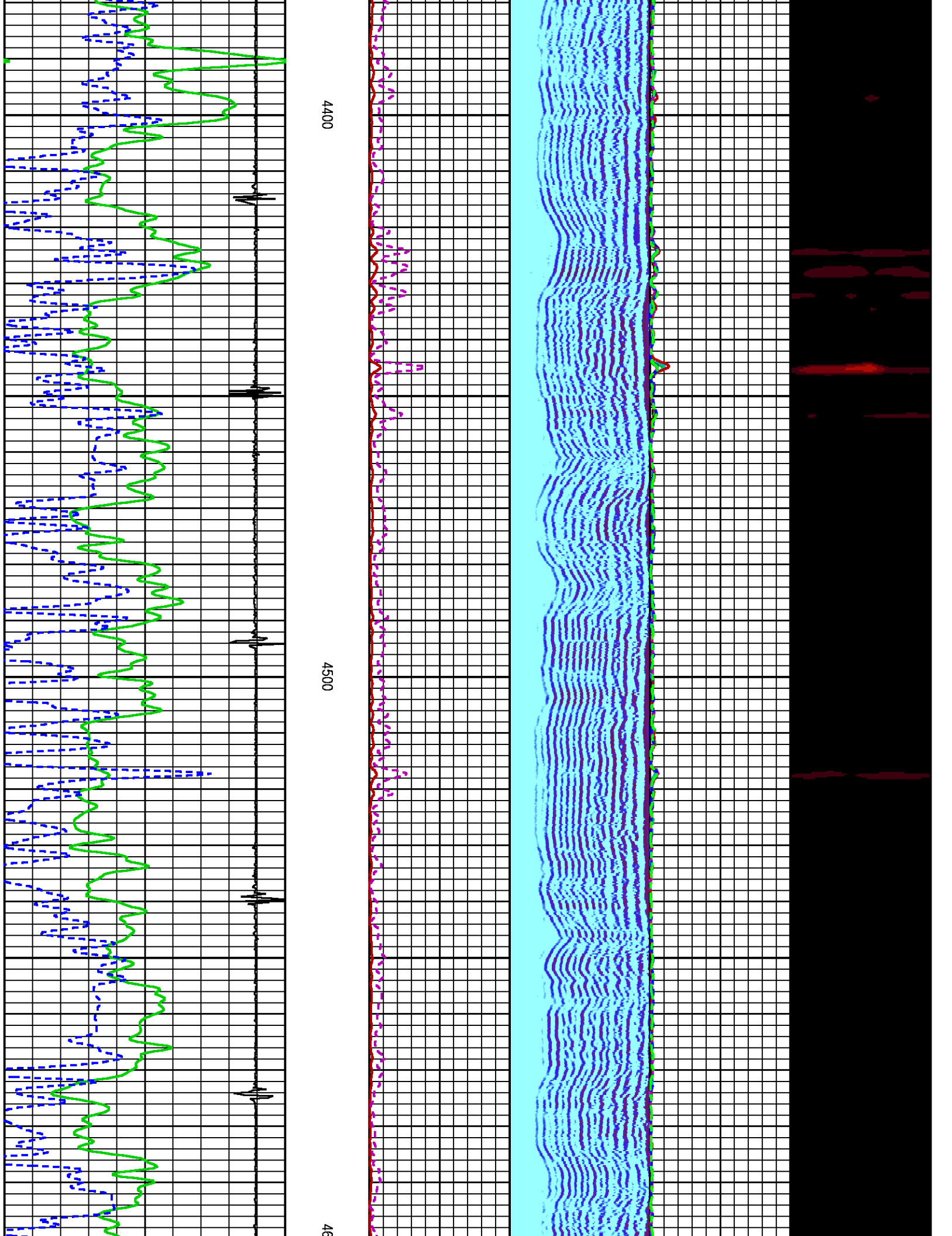


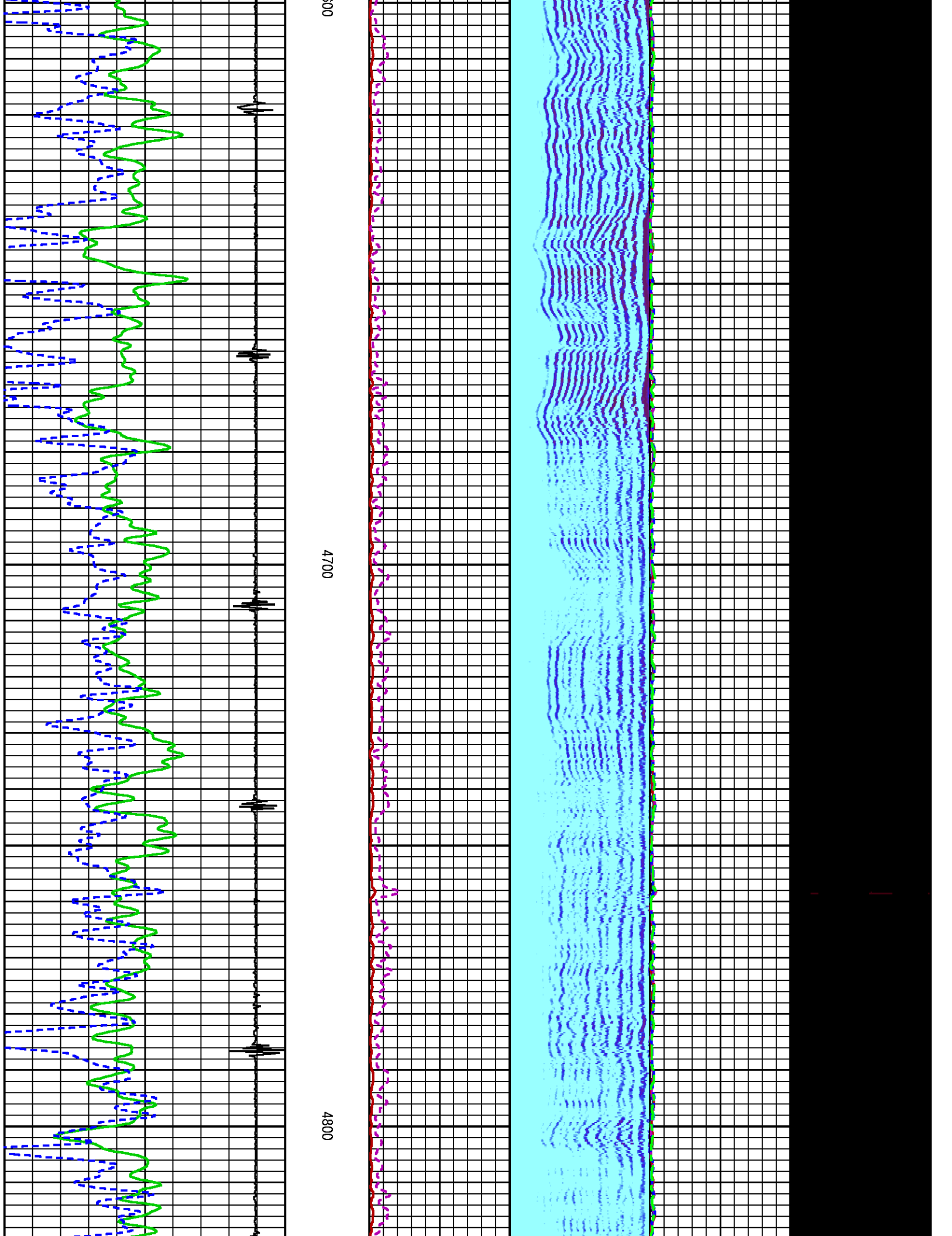


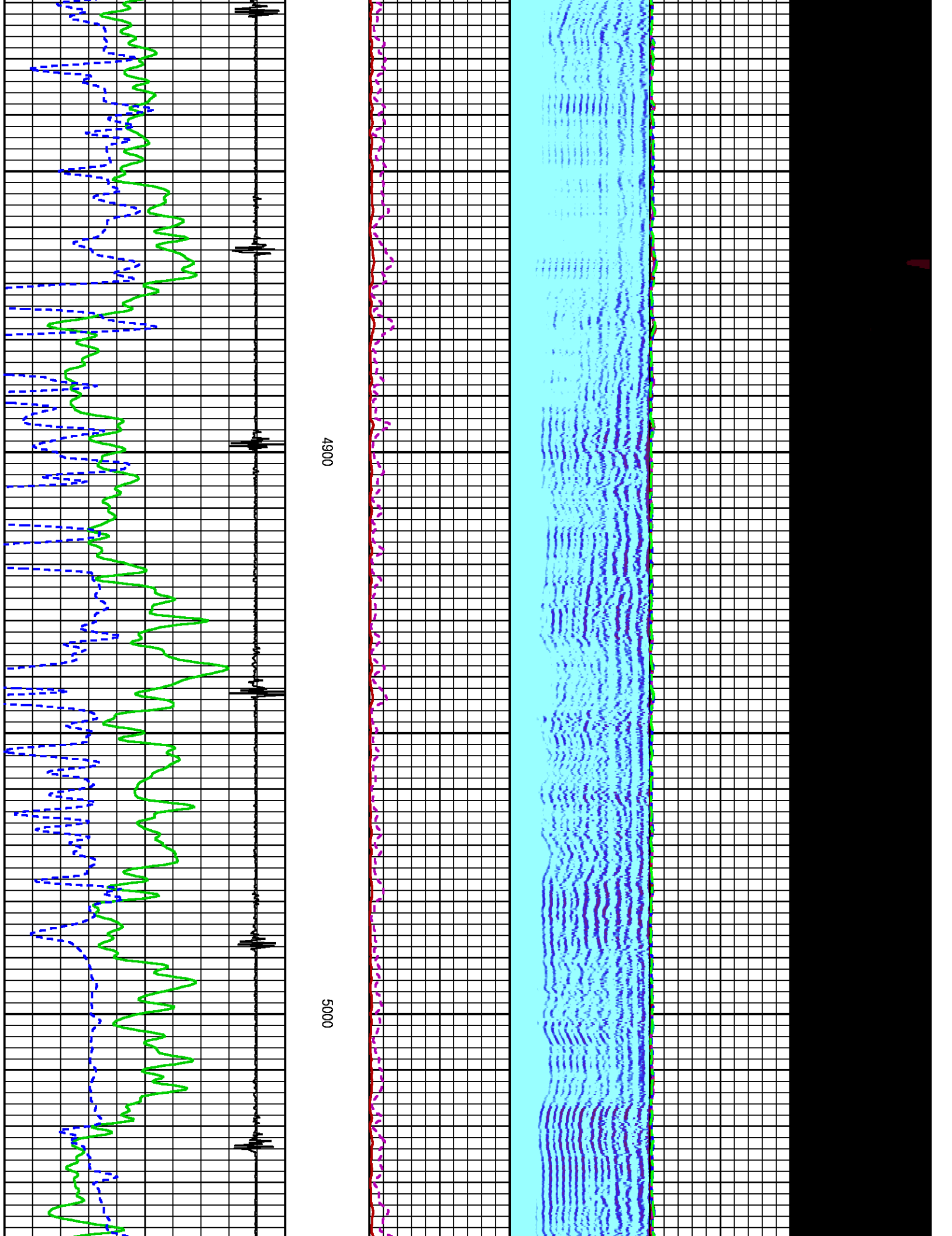


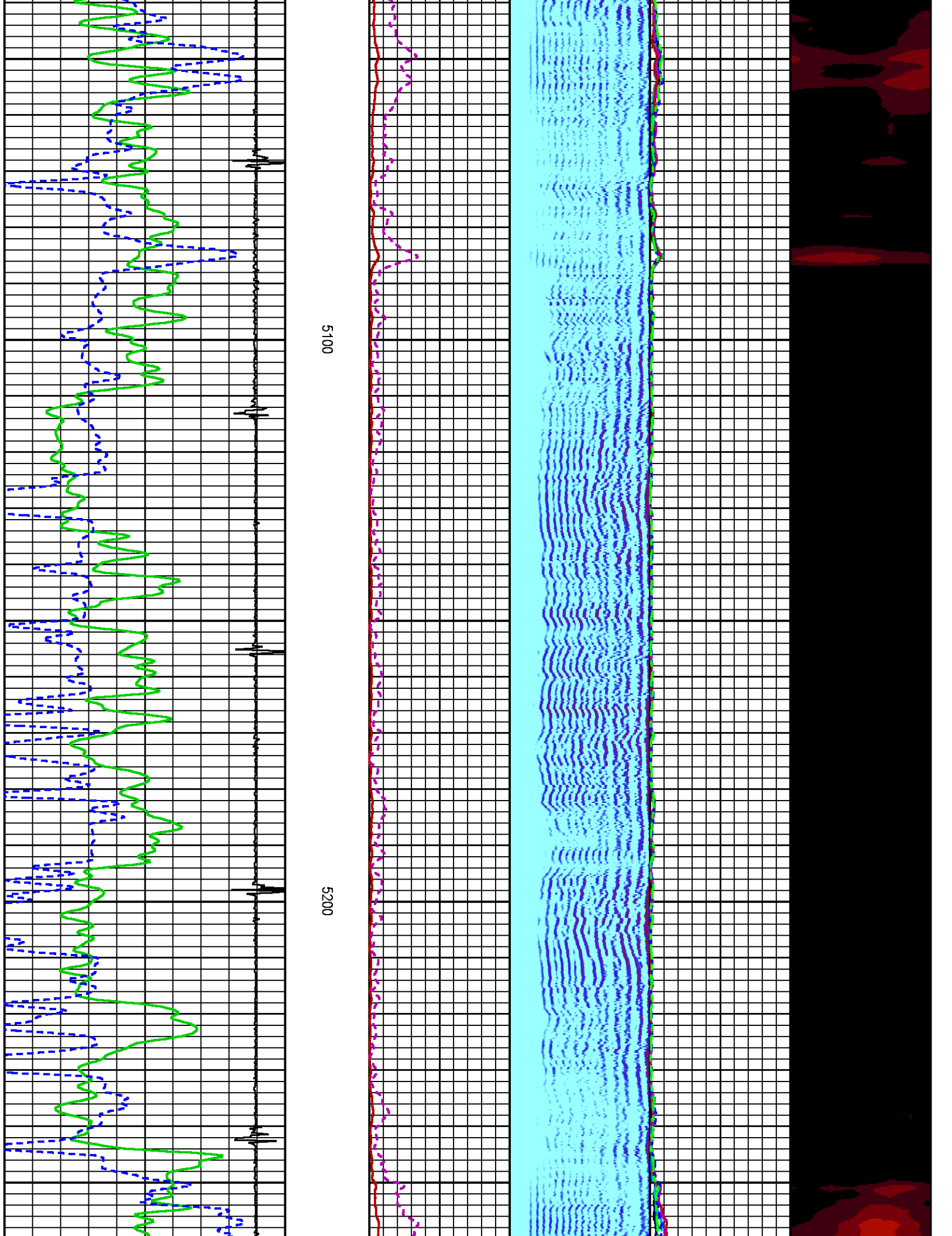


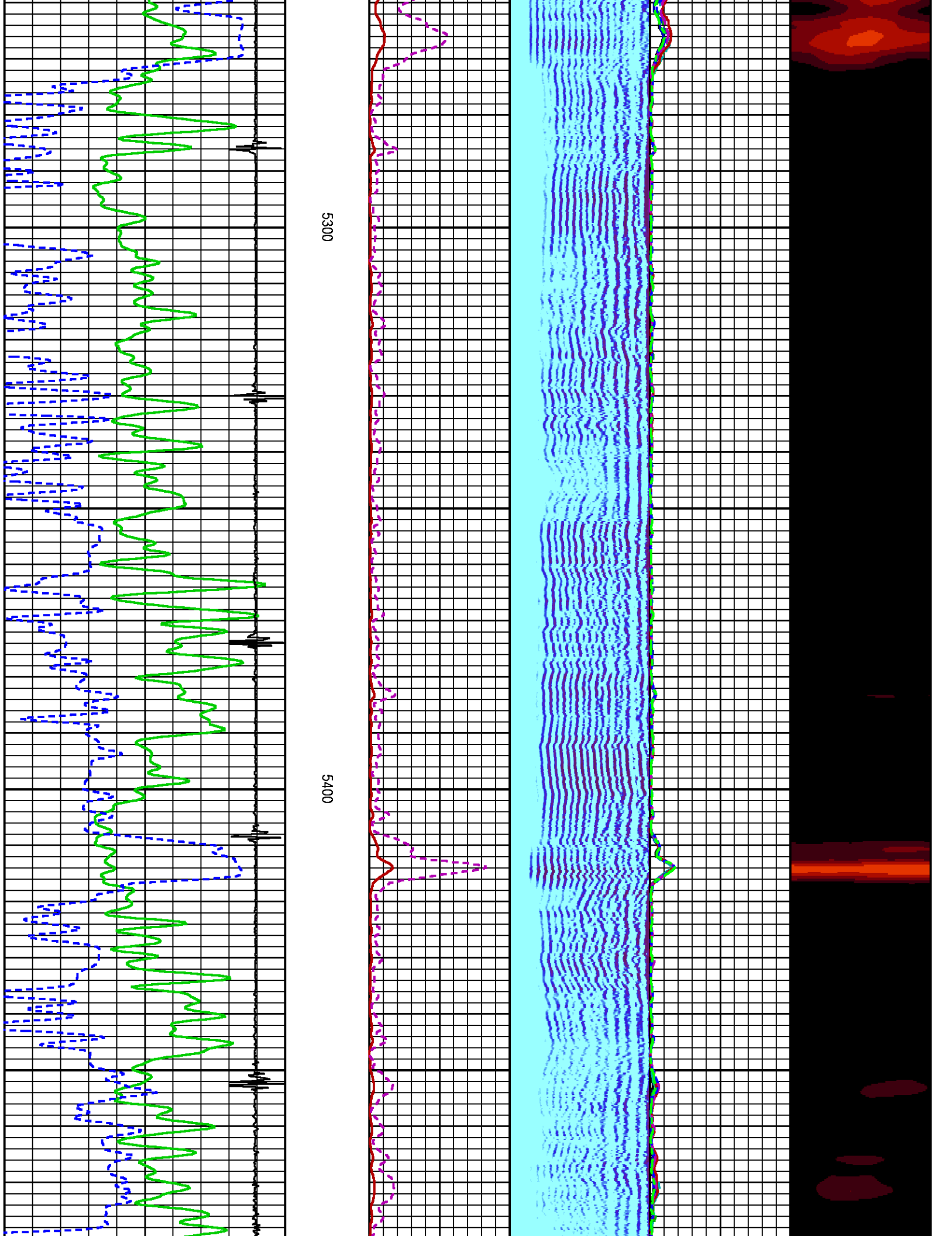


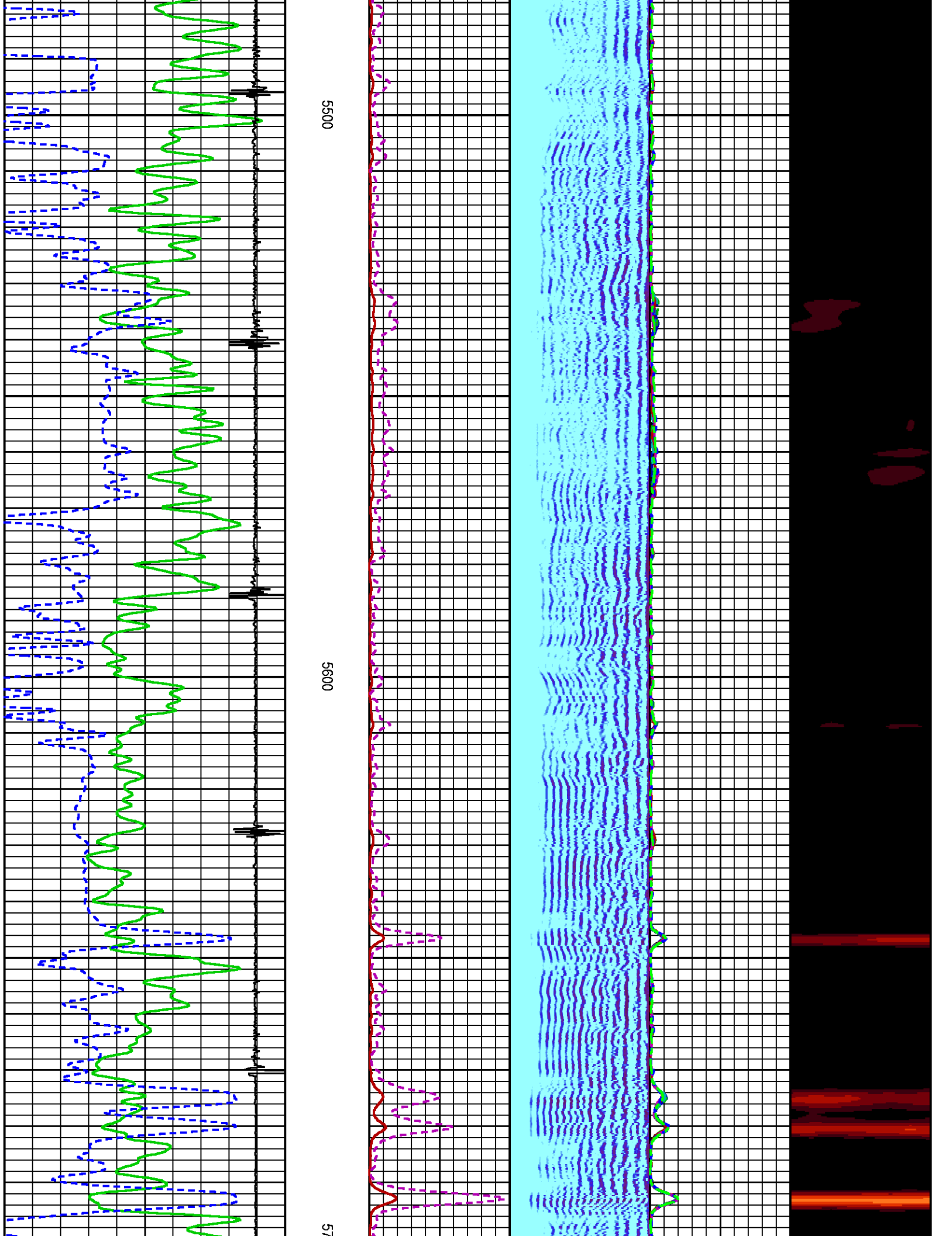


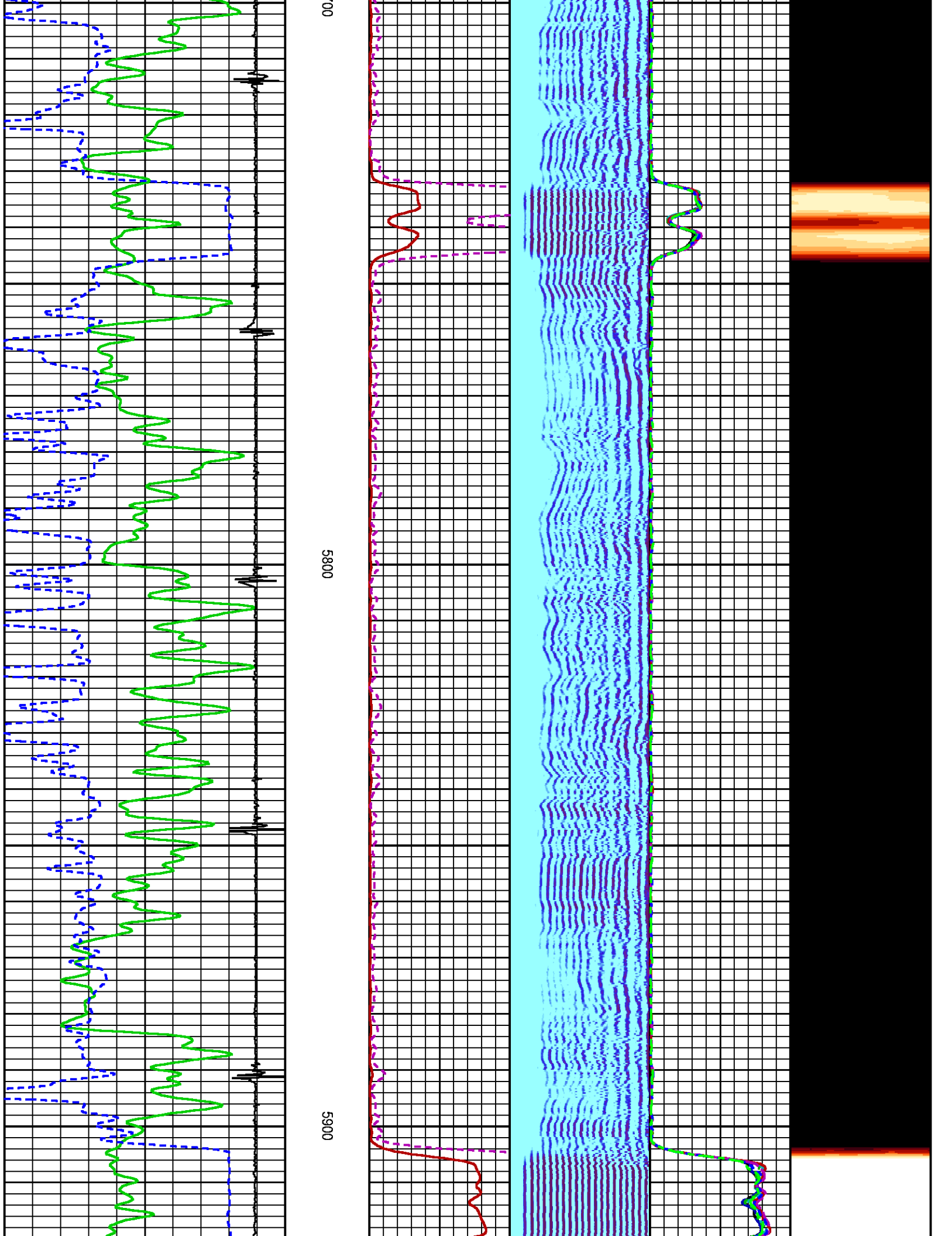


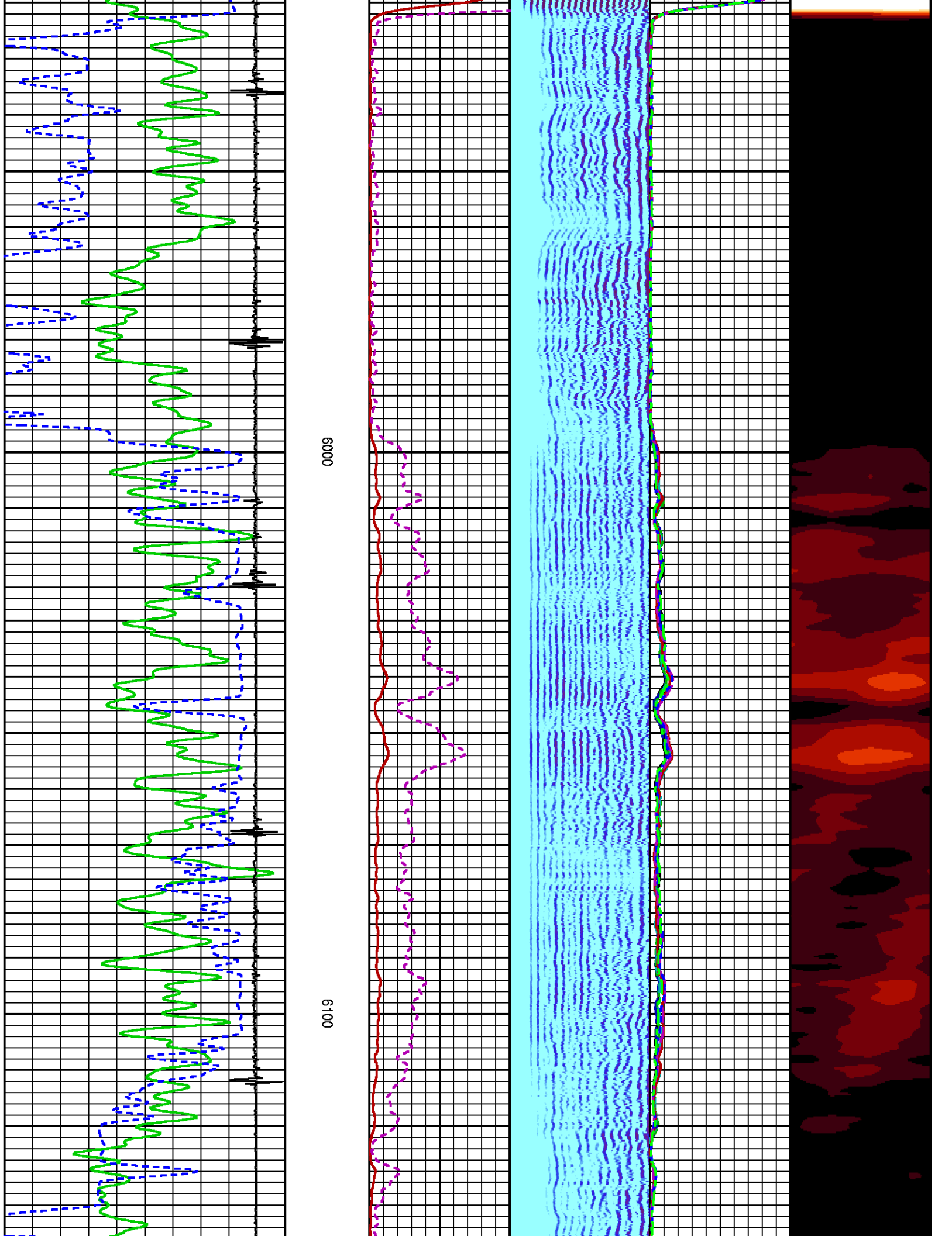


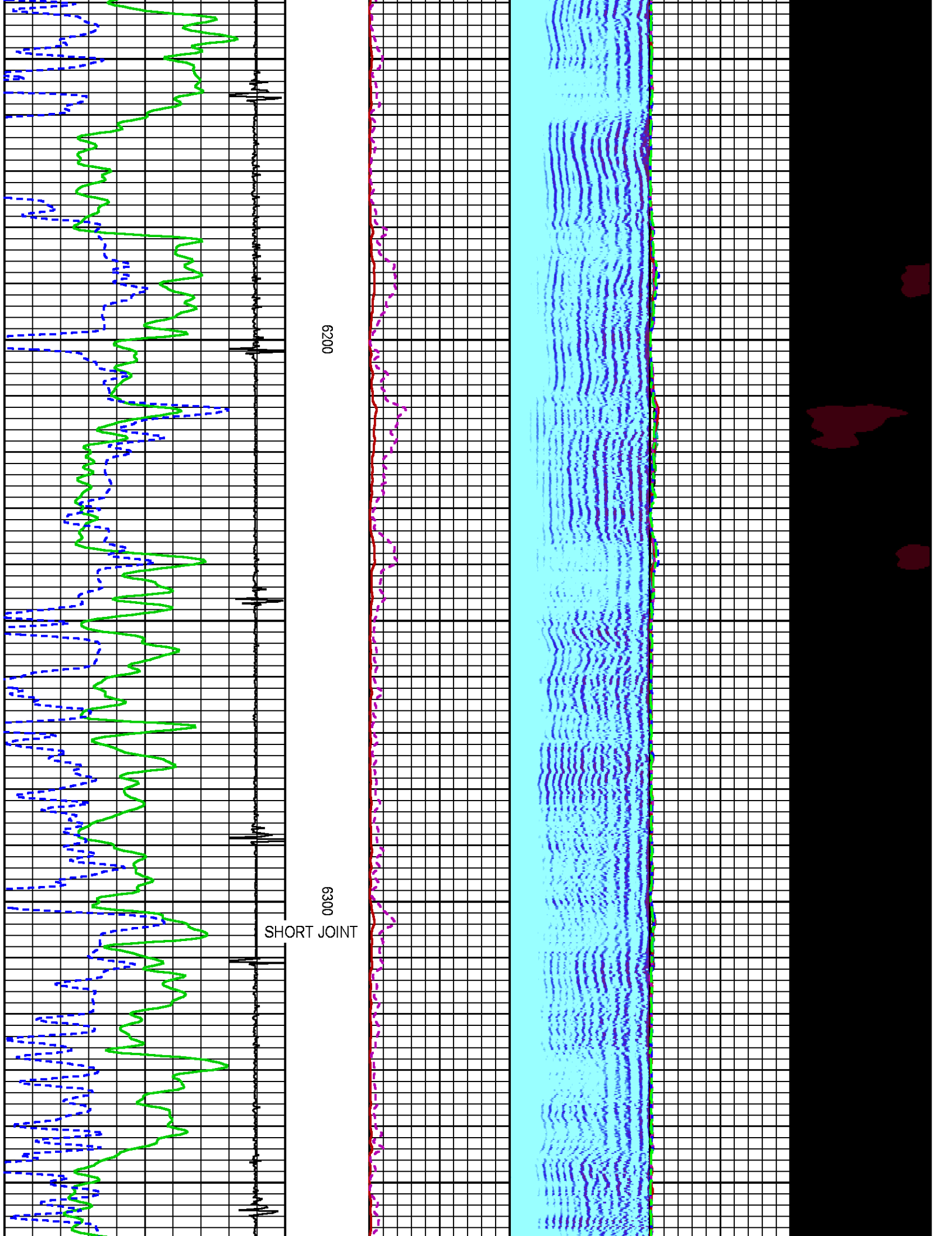


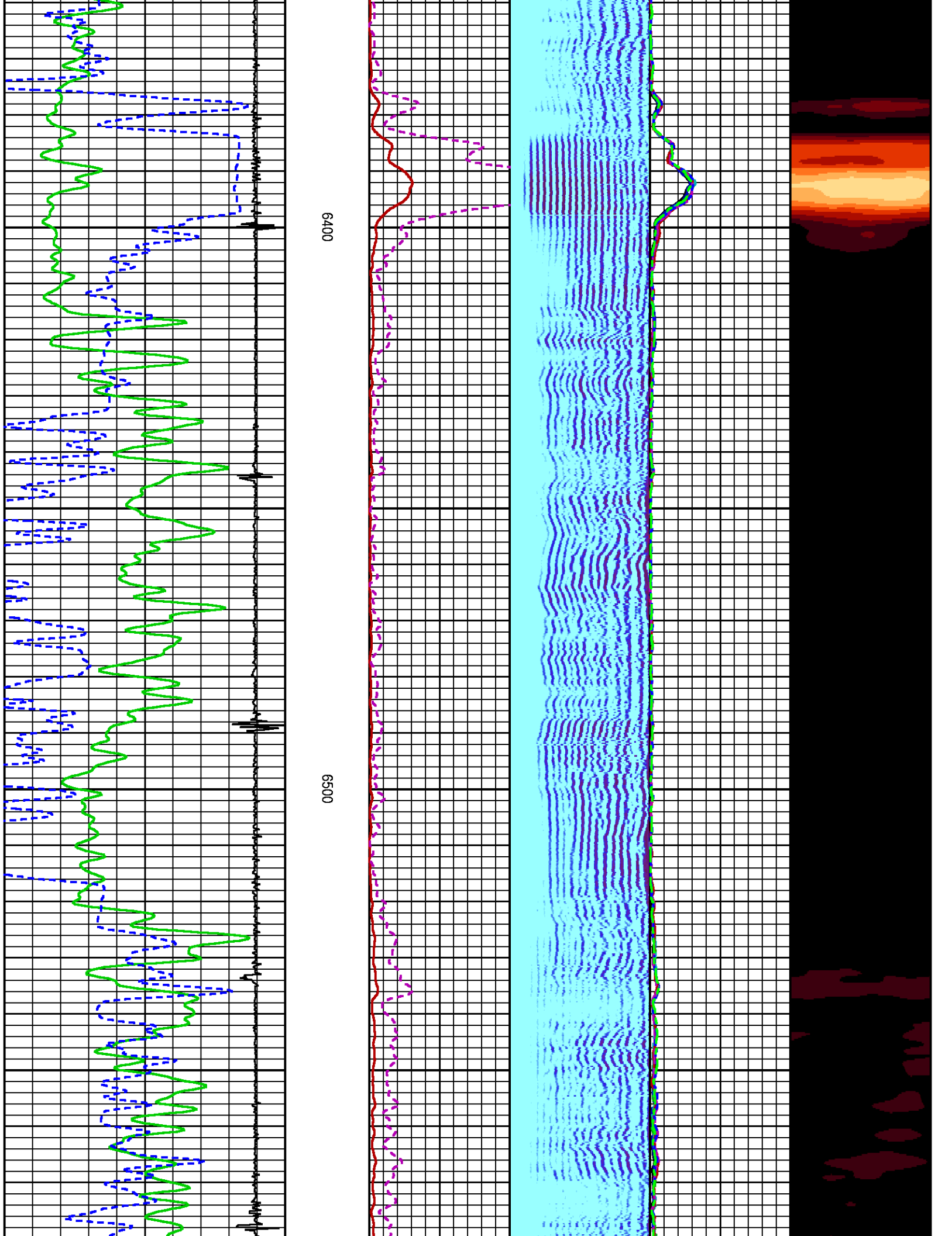


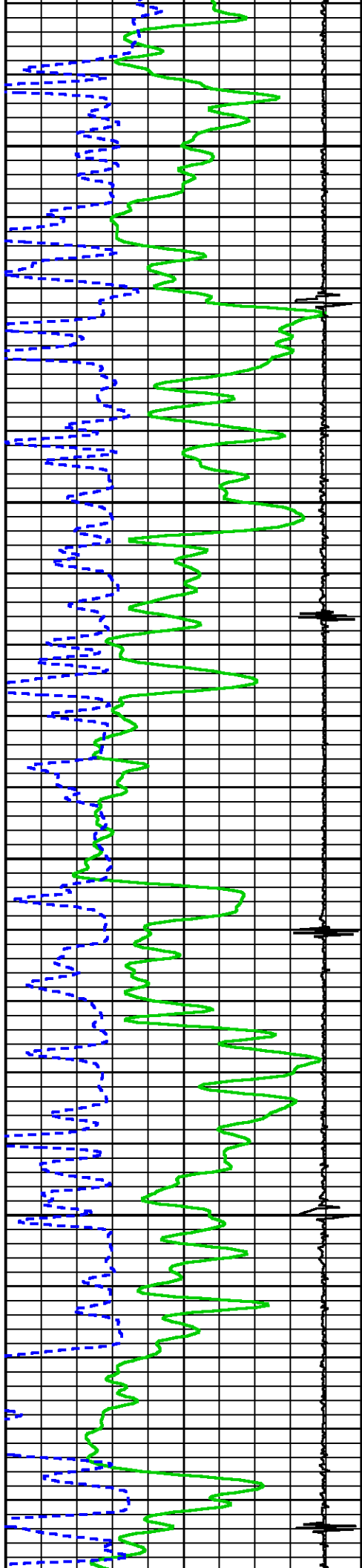








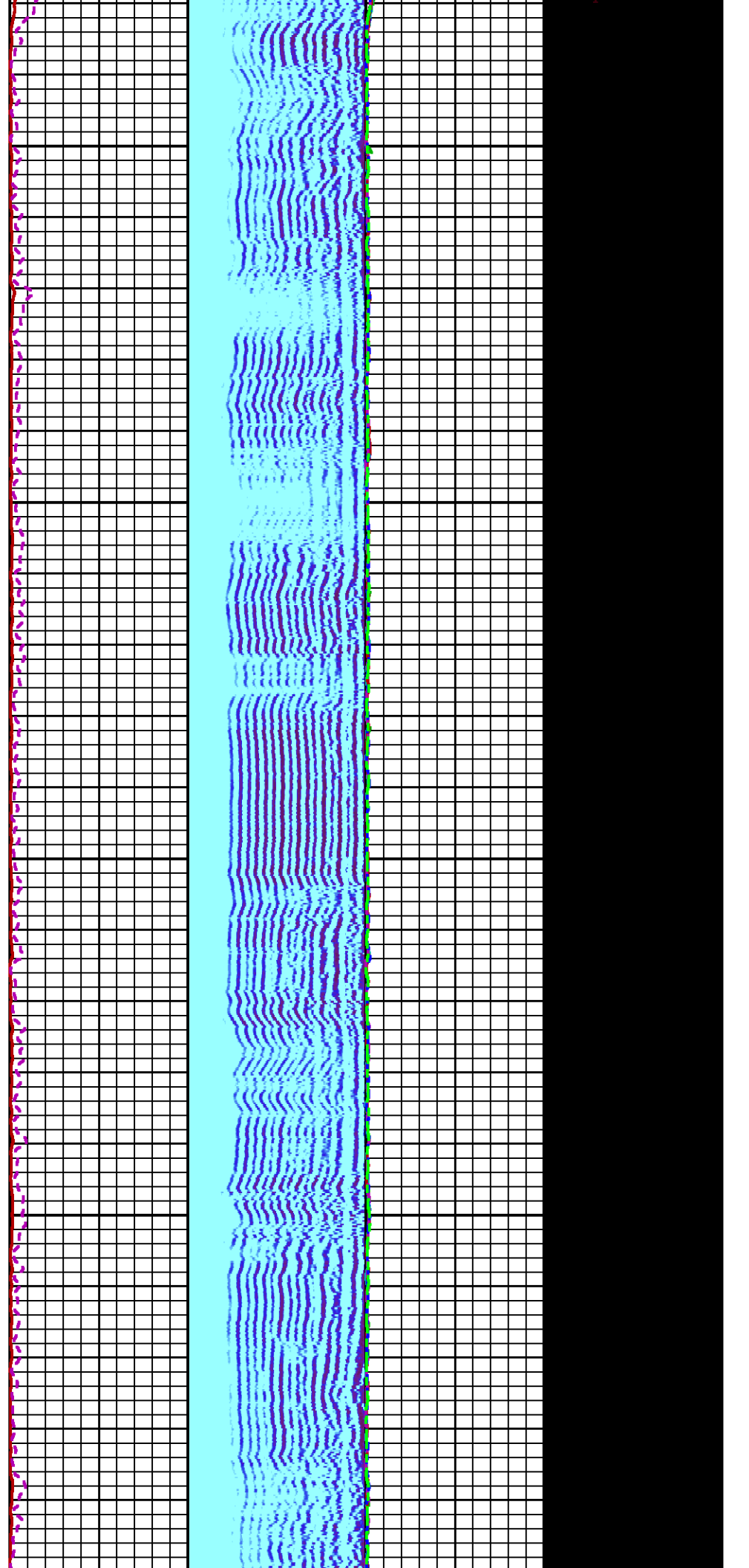


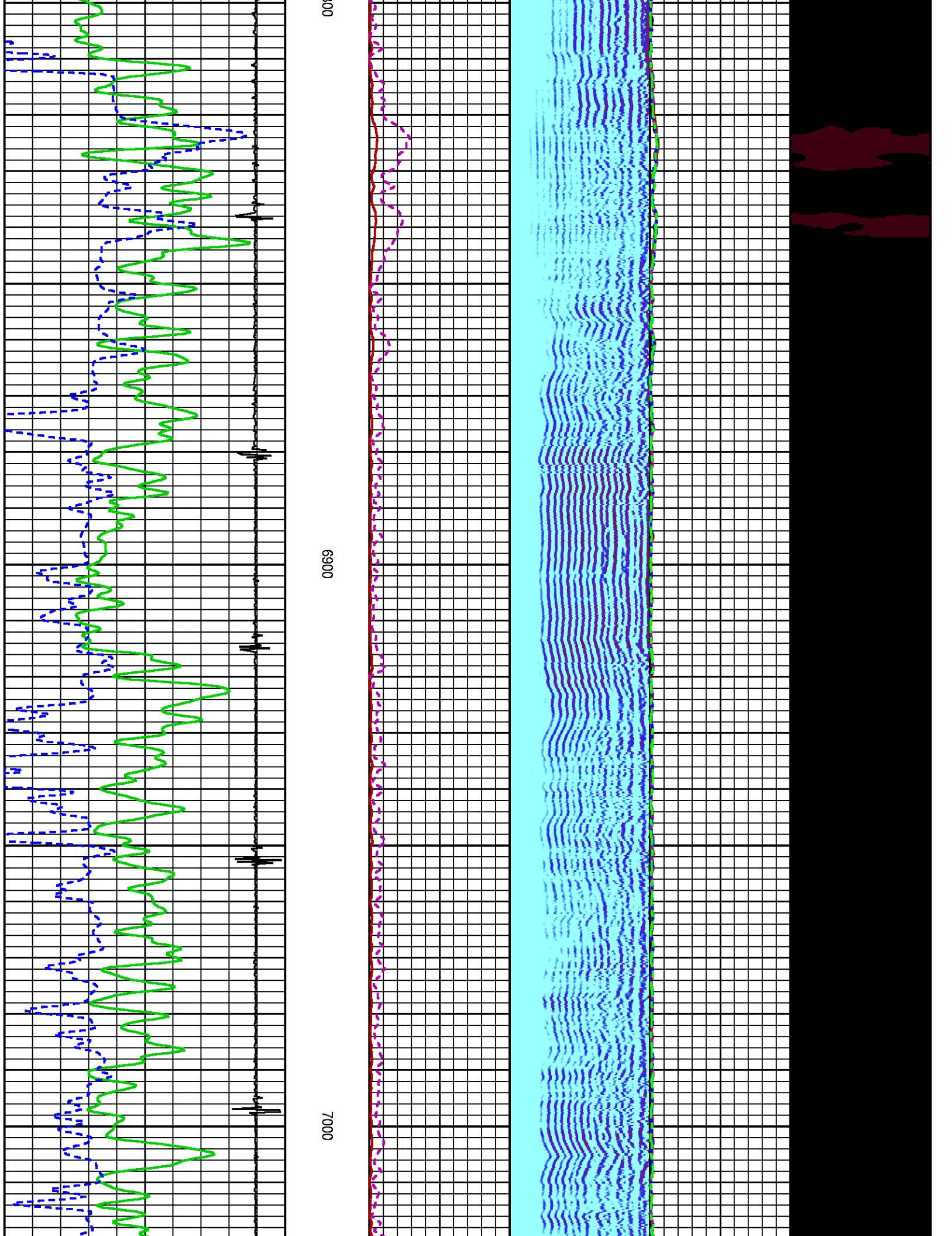


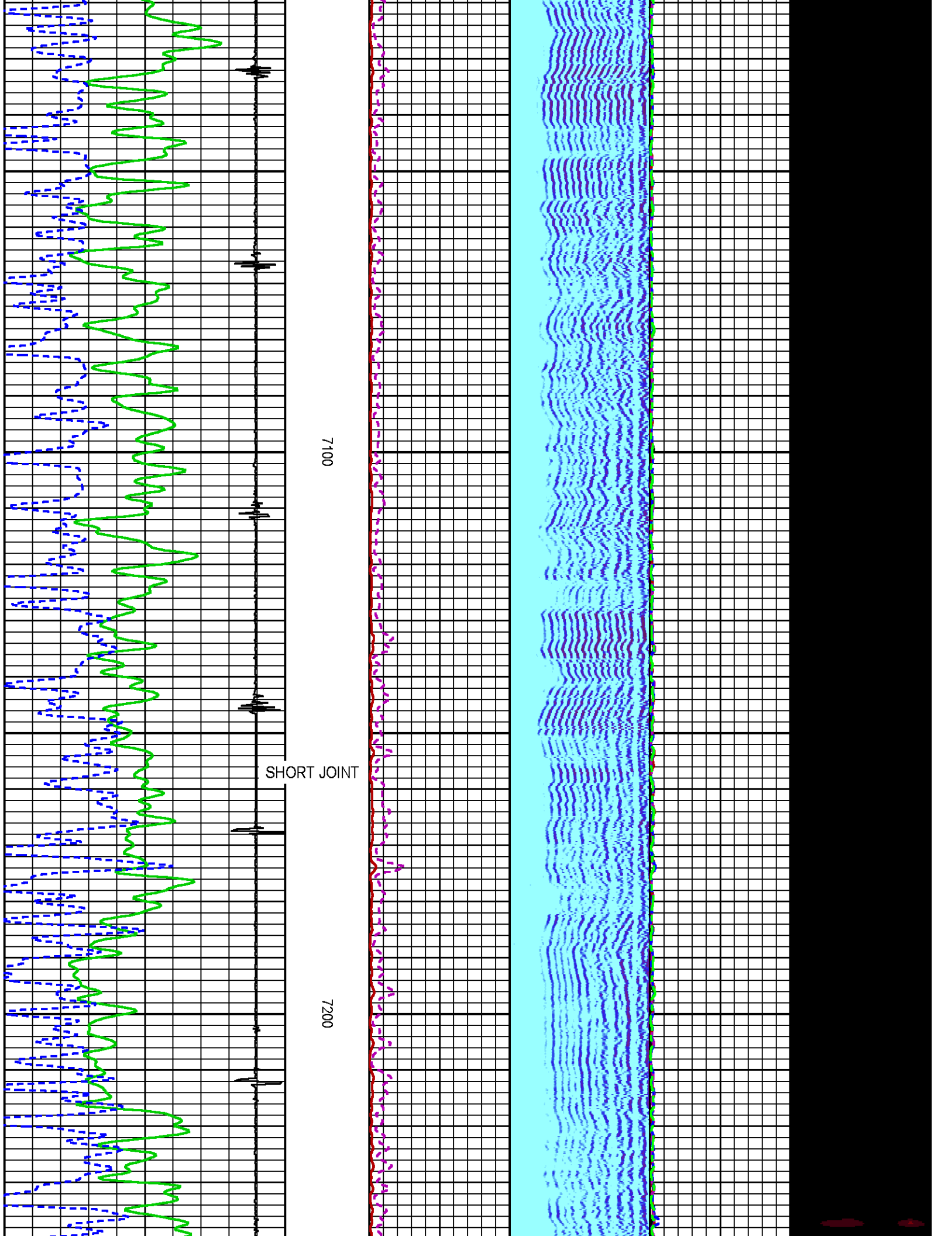
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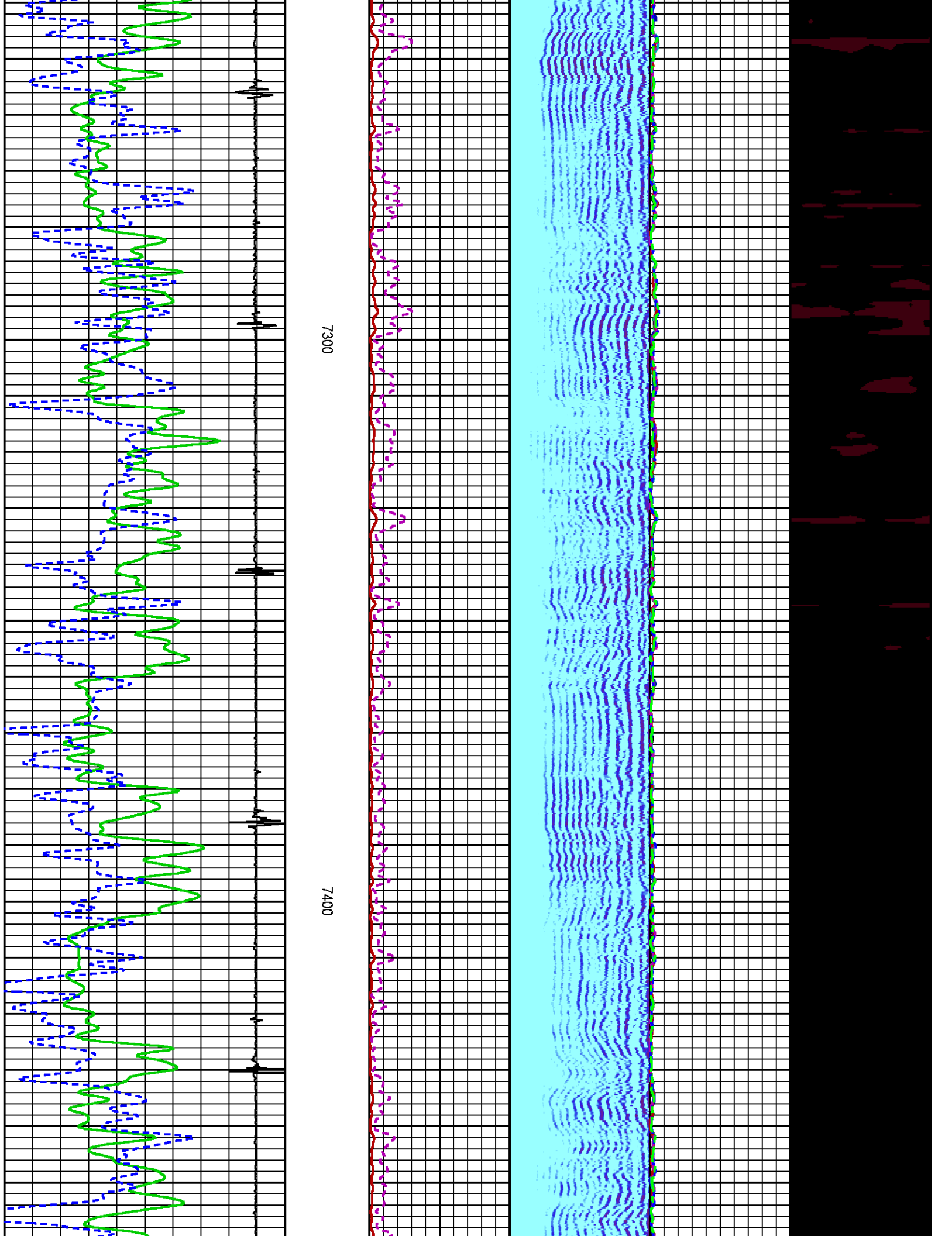
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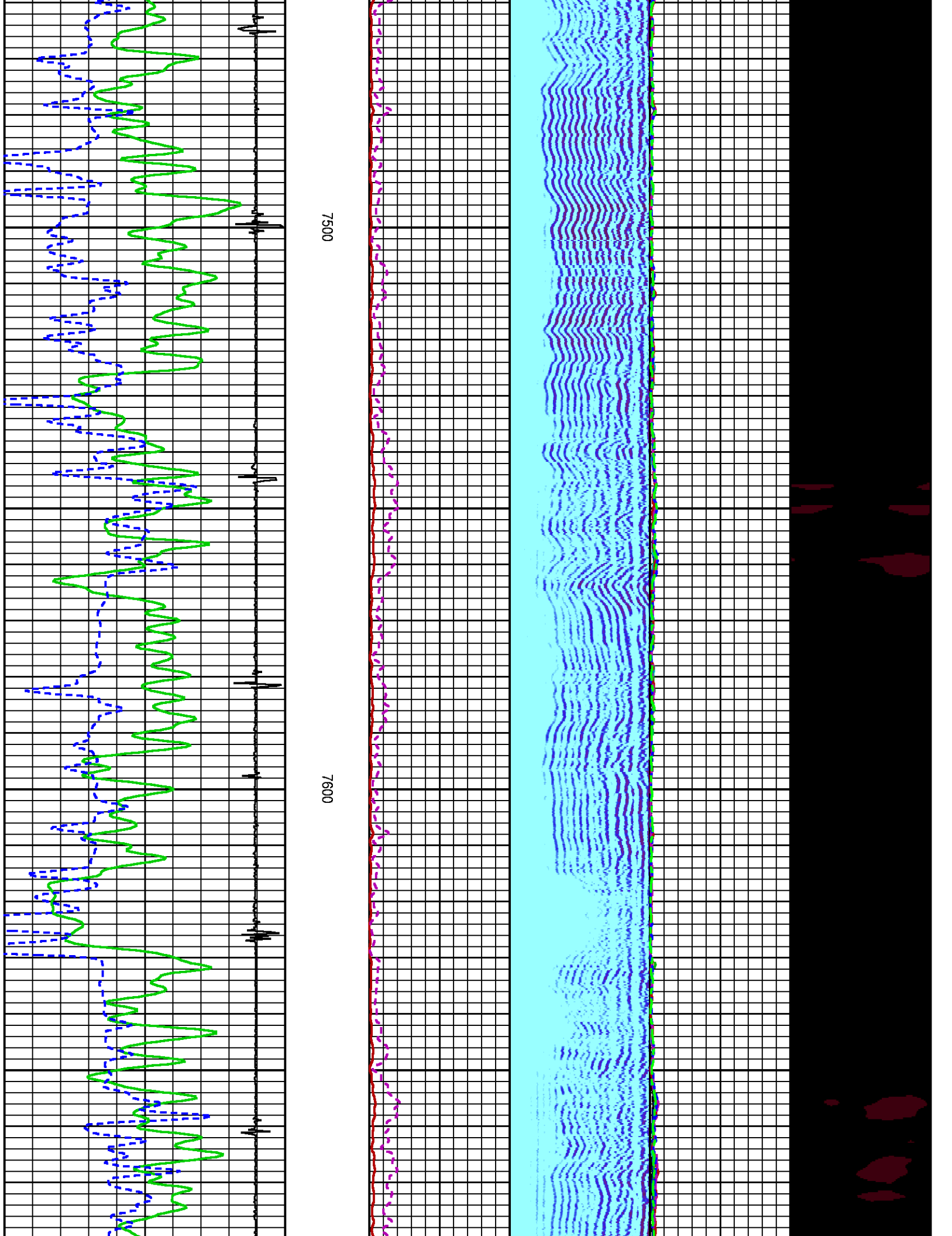
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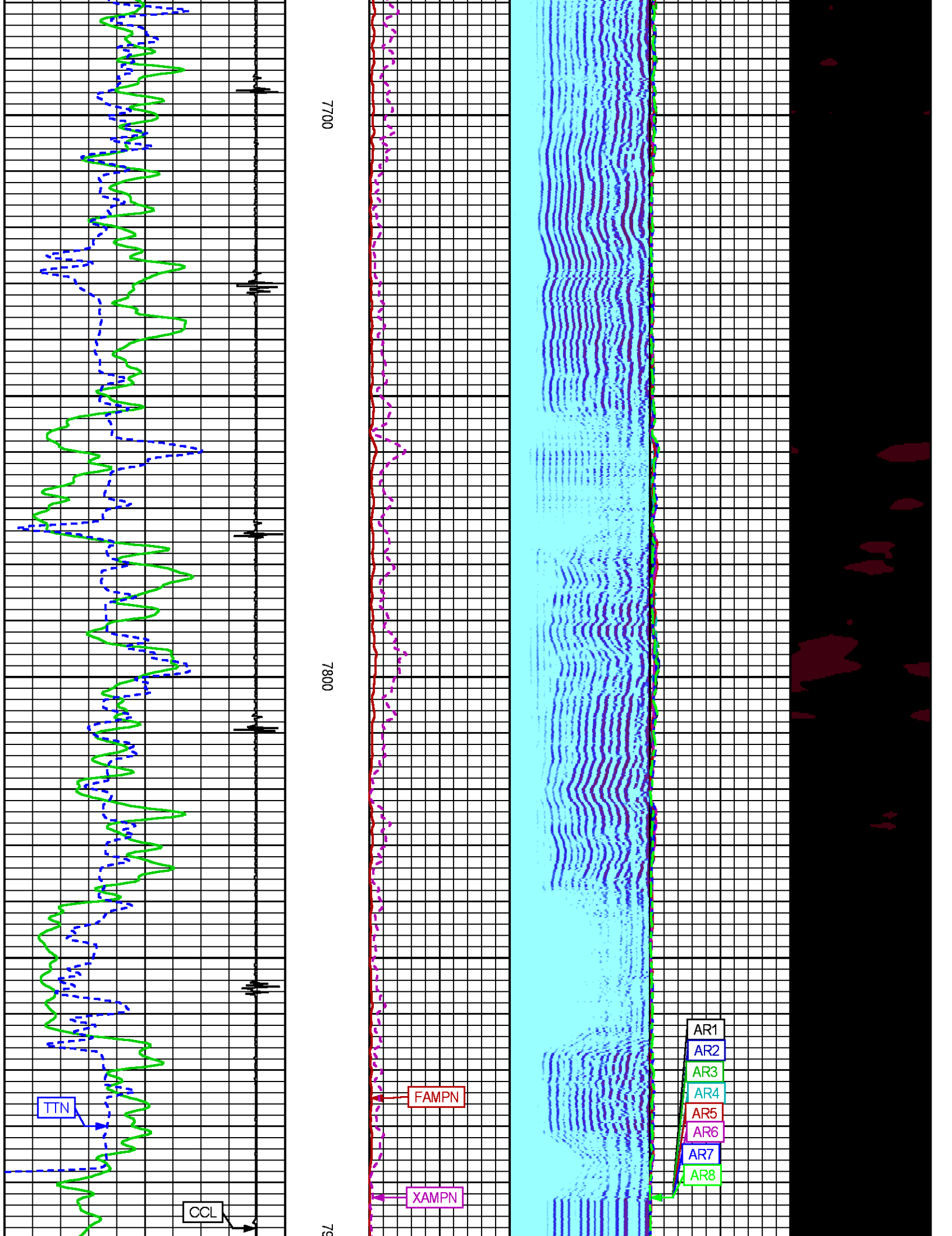


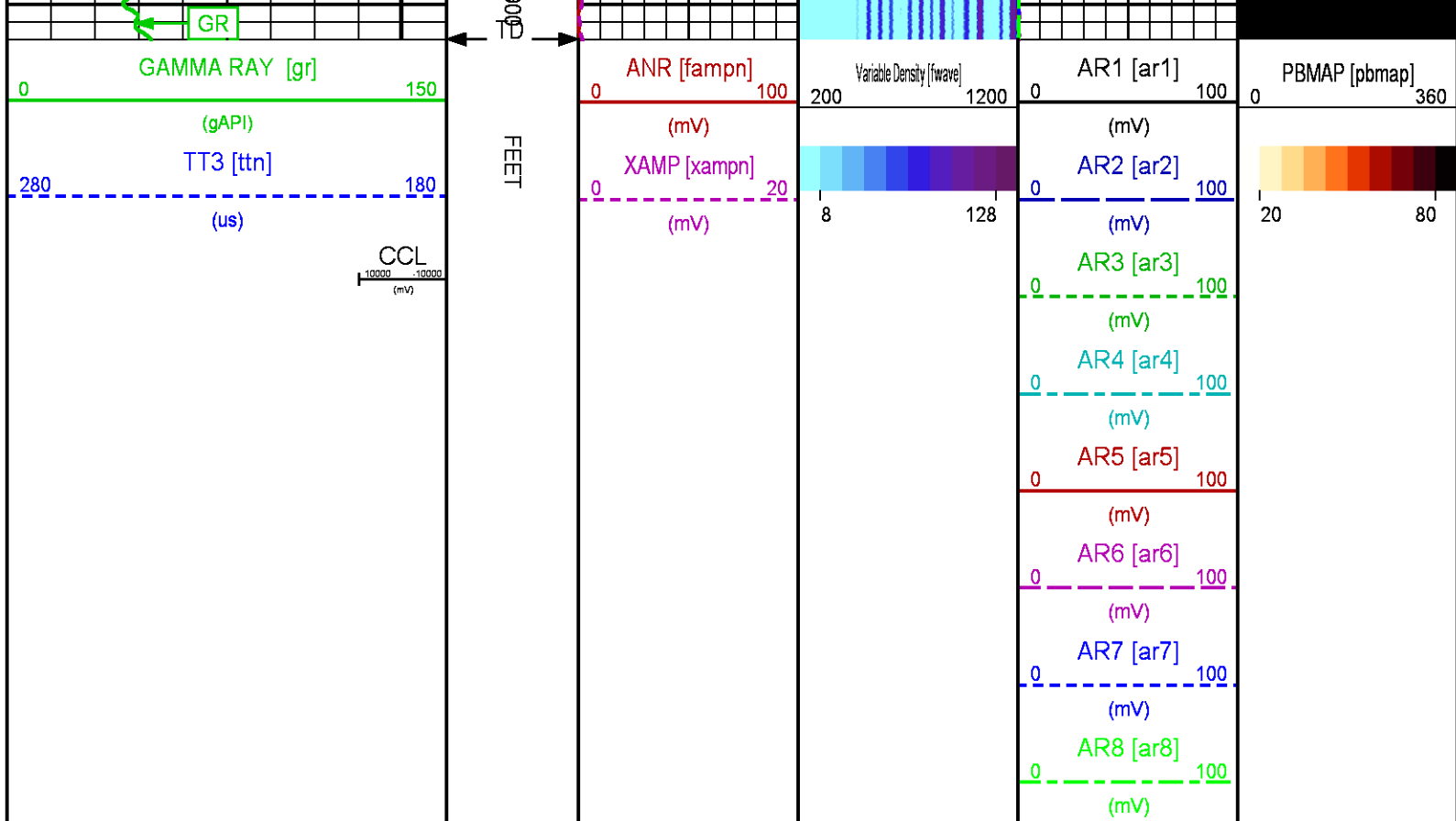












REPEAT PRESENTATION 0 PSI

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

Updates: 1 Patches: 6

Plotted: Sat Oct 17 10:33:36 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH100249/n012g01.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 7600.000 ft BOTTOM DEPTH: 7985.500 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*)	185	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	185	us	"	"
	AMP WINDOW START (fgp3*)	185	us	"	"

	AMP WINDOW START (fgp4*)	185	us	"	"
	AMP WINDOW START (fgp5*)	185	us	"	"
	AMP WINDOW START (fgp6*)	185	us	"	"
	AMP WINDOW START (fgp7*)	185	us	"	"
	AMP WINDOW START (fgp8*)	185	us	"	"
	AMP WINDOW START (fgpn*)	185	us	"	"
	AMP WINDOW LENGTH	30	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	170	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*)	-74	us	"	"
	TOOL DELAY (str2*)	-74	us	"	"
	TOOL DELAY (str3*)	-74	us	"	"
	TOOL DELAY (str4*)	-74	us	"	"
	TOOL DELAY (str5*)	-74	us	"	"
	TOOL DELAY (str6*)	-74	us	"	"
	TOOL DELAY (str7*)	-74	us	"	"
	TOOL DELAY (str8*)	-74	us	"	"
	TOOL DELAY (strn*)	-74	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

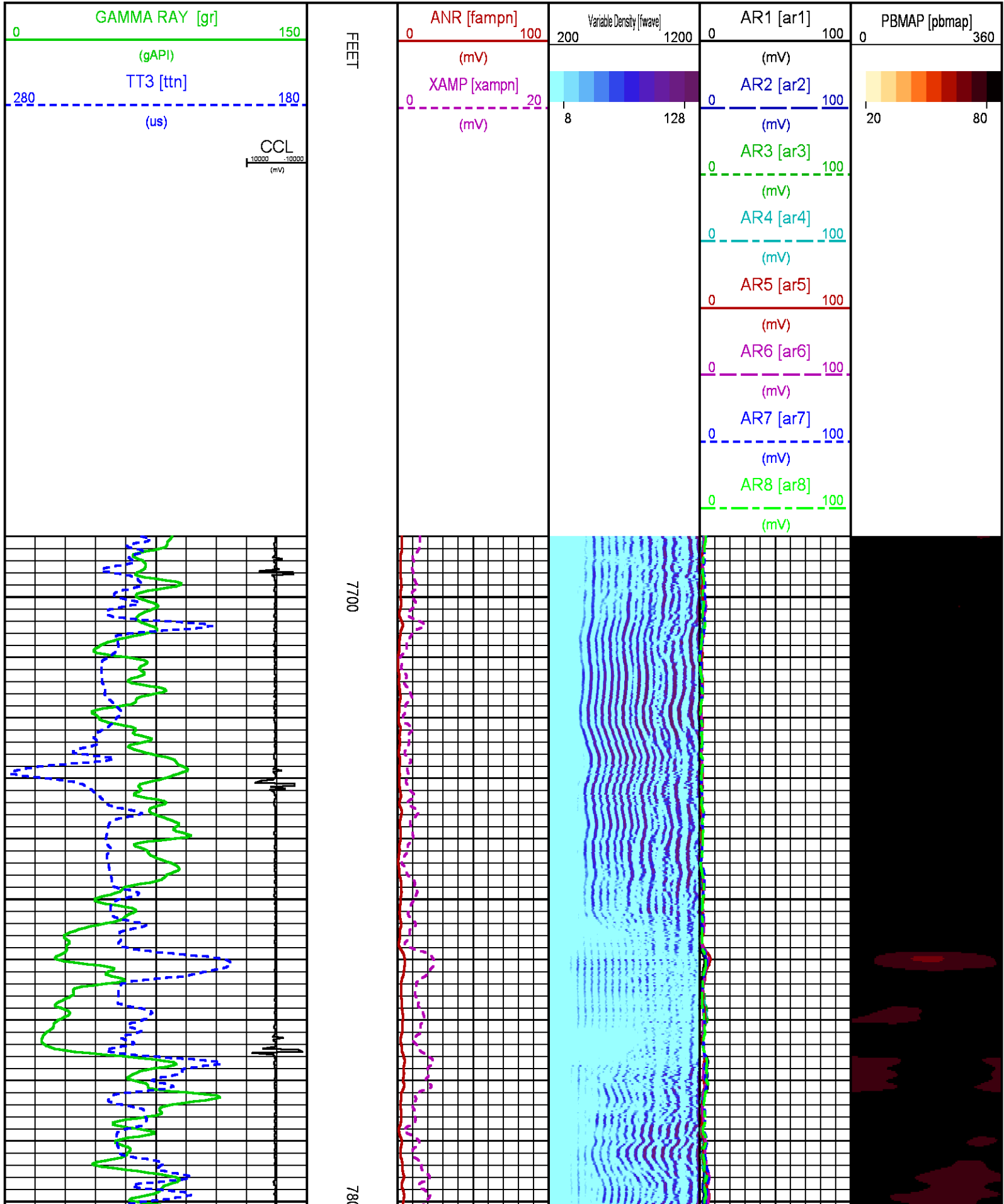
PERCENT BOND CEMENT MAP					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"
	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"
	FREE AMP REC 5	80	mV	"	"
	FREE AMP REC 6	80	mV	"	"
	FREE AMP REC 7	80	mV	"	"
	FREE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

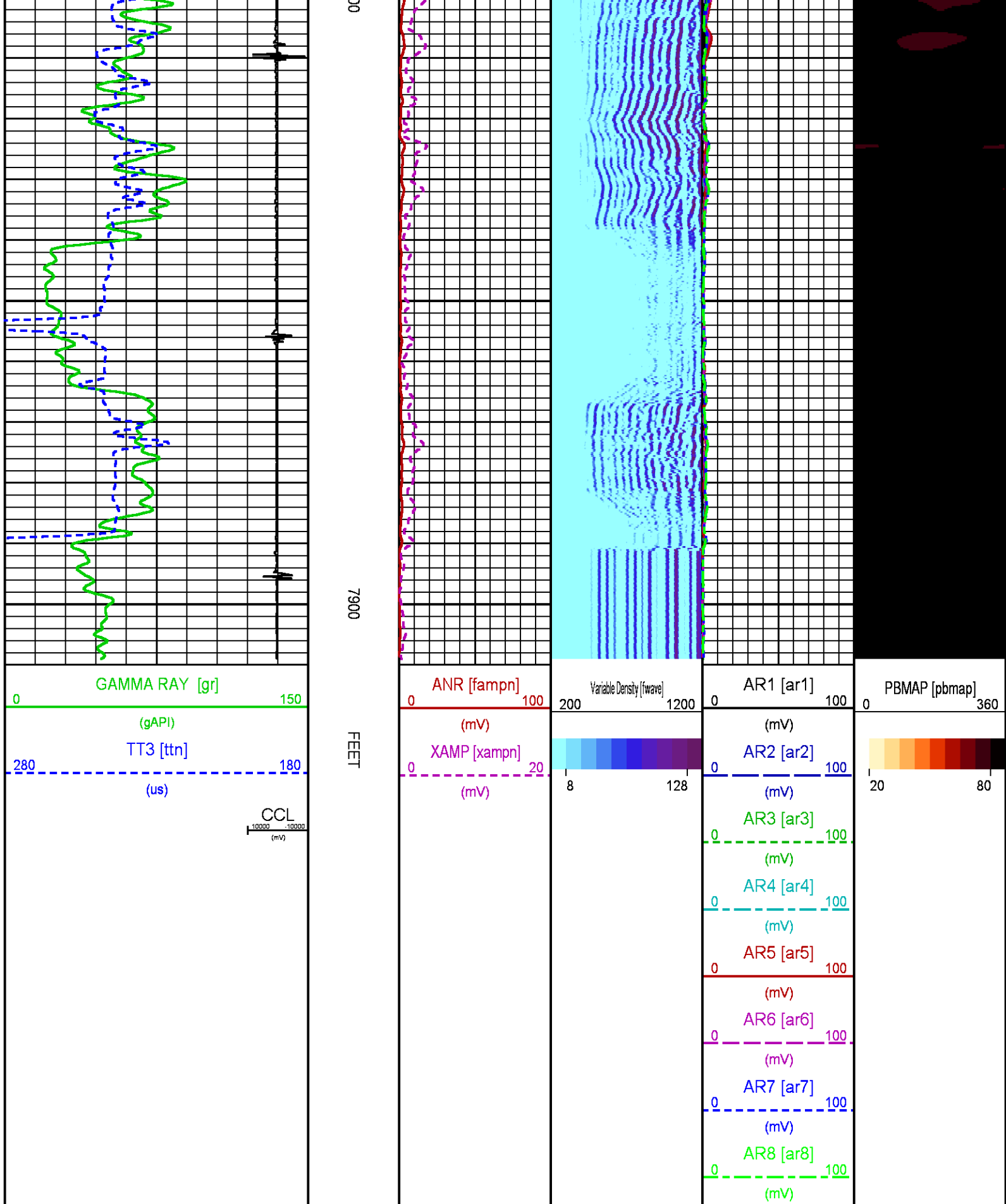
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Oct 17 08:22:14 2015	FIXED GATE AMPLITUDE T-R1
F1:AR2	Oct 17 08:22:14 2015	FIXED GATE AMPLITUDE T-R2
F1:AR3	Oct 17 08:22:14 2015	FIXED GATE AMPLITUDE T-R3
F1:AR4	Oct 17 08:22:14 2015	FIXED GATE AMPLITUDE T-R4
F1:AR5	Oct 17 08:22:14 2015	FIXED GATE AMPLITUDE T-R5
F1:AR6	Oct 17 08:22:14 2015	FIXED GATE AMPLITUDE T-R6
F1:AR7	Oct 17 08:22:14 2015	FIXED GATE AMPLITUDE T-R7
F1:AR8	Oct 17 08:22:14 2015	FIXED GATE AMPLITUDE T-R8
F1:CCL	Oct 17 08:22:14 2015	CASING COLLAR LOCATOR
F1:FAMPN	Oct 17 08:22:14 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Oct 17 08:22:14 2015	FAR WAVE FORM
F1:GR	Oct 17 08:22:14 2015	GAMMA RAY
F1:PBMAP	Oct 17 08:22:14 2015	PERCENT BOND CEMENT MAP
F1:TTN	Oct 17 08:22:14 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Oct 17 08:22:14 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	: HL6670:/dat1a/CH100249/8M_CBL_REPEAT.fvpdf [5"/100' Scale]
Plot Interval	: 7690 - 7909 Feet
Data File 1	: E1 : HL 6670:/dat1a/CH100249/n012n01RFEPEAT08M xtf

Created On : Oct 17 08:22:14 2015
Company : LARAMIE ENERGY
Well : PICEANCE 28_08M
Field : VEGA
File Interval : 7600.75 - 7998 Feet
OCT : n012g





RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10124106 DATE/TIME PERFORMED: Sat Oct 17 07:51:18 2015

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)	-0.15	-0.09	0.02	0.10	-0.03	0.03	-0.05	-0.19	-0.15	-0.45	-0.11
AMP FLUID (mV)	103	103	102	103	103	103	103	103	104	138	102
TT (us)	218	218	218	217	217	217	216	216	218	325	218
M FACTOR	0.97	0.97	0.98	0.97	0.97	0.97	0.97	0.97	0.96	1.08	0.98

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10124106 DATE/TIME PERFORMED: Sat Oct 17 07:52:32 2015 DAYS SINCE CAL: 0

UNIT #: 3880TA HL6670 CABLE #: 6670SM SMALL1

	NEAR (mV)	R1 (mV)	R2 (mV)	R3 (mV)	R4 (mV)	R5 (mV)	R6 (mV)	R7 (mV)	R8 (mV)	FAR (mV)	CAL (mV)
ZERO	-0.04	-0.03	0.01	-0.11	-0.14	-0.17	-0.10	-0.06	-0.10	-0.14	-0.07
AMP AIR	0.16	-0.54	-0.17	0.35	0.32	0.19	0.12	0.17	0.41	0.24	99.77

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
0.98	0.00	1.00

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 11871510 DATE/TIME PERFORMED: Fri Oct 9 09:14:59 2015

UNIT #:	3880TA HL6670	CALB JIG #:	4702NK WA-612
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	BACKGROUND (cts)	CALBRTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	65.78	249.56	183.8	0.816	53.69	203.69	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1355XA 11871510 DATE/TIME PERFORMED: Fri Oct 9 09:16:42 2015

UNIT #: 3880TA HL6670 VERI JIG #: 4702NK WA-612

	BACKGROUND	CALBRTR ON	MULT	BACKGROUND	CALBRTR ON	DIFF.
	(cts)	(cts)		(gAPI)	(gAPI)	(gAPI)
GR	66.93	242.00	0.816	54.63	197.52	142.89
						140.00 160.00

INSTRUMENT CONFIGURATION

Source File: /dat1a/CH100249/CBL-tdg

CABLEHEAD

Diameter : 2.75"
Length : 2.25'
Weight : 10 lbs
Series : CABL234
Mnemonic : CBLH

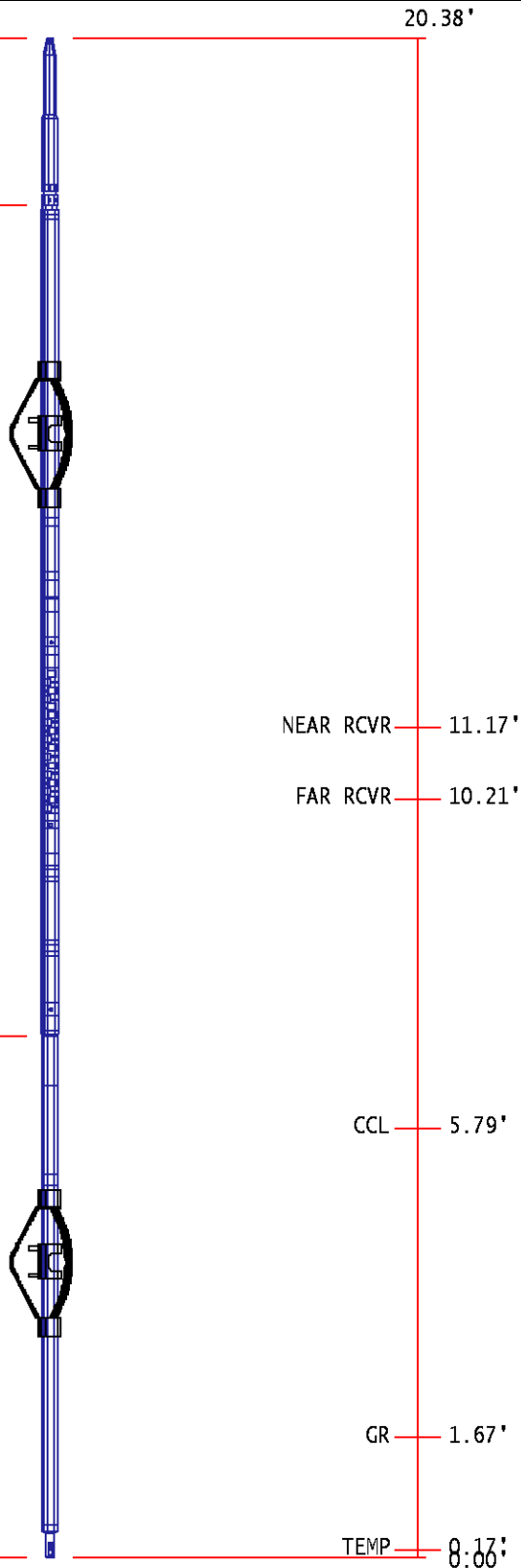
RADIAL BOND TOOL


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: 235 lbs
MAX DIAMETER: 0'4.00"



	COMPANY	LARAMIE ENERGY	FILE NO:	CH100249
	WELL	PICEANCE 28-08M	API NO:	05077102450000
	FIELD	VEGA		
	COUNTY	MESA	STATE	COLORADO
LOCATION:		ELEVATIONS:		
SHL: LAT 39.250933 LONG -107.779375		KB 7600 FT	28 9S 93W	
BHL: LAT 39.250153 LONG -107.774661		DF	28-05 PAD	
SEC 28 TWP 9S RGE 93W		GL 7578 FT	PATTERSON 306	
		DATE	17-OCT-2015	