



FILE NO: CH095880

COMPANY LARAMIE ENERGY
WELL PICEANCE 28-11W
FIELD VEGA
COUNTY MESA STATE COLORADO

Ver. 4.01
SEC 28 T9S R93W
PAD 28-11
PATTERSON 306

LOCATION:
SHL: 2515' FSL 1608' FWL
BHL: 2627' FSL 878' FWL
OTHER SERVICES
RPM

PERMANENT DATUM GL ELEVATION 7580 FT
LOG MEASURED FROM KB 22 FT ABOVE P.D.
DRILL. MEAS. FROM KB
ELEVATIONS:
KB 7602 FT
DF
GL 7580 FT

DATE	12-Apr-2015
RUN	1
TRIP	1
SERVICE ORDER	US095880
DEPTH DRILLER	7929 FT
DEPTH LOGGER	7908 FT
BOTTOM LOGGED INTERVAL	7898 FT
TOP LOGGED INTERVAL	0 FT
TIME STARTED	7:30
TIME FINISHED	9:30
OPERATOR RIG TIME	2 HRS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	124 FT
LOGGED CEMENT TOP	NA
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	90 FMIN
MAX. RECORDED TEMP.	249 DEGF
REFERENCE LOG	NA
REFERENCE LOG DATE	NA
EQUIP. NO.	6685
LOCATION	GRAND JCT
RECORDED BY	P. EDWARDS
WITNESSED BY	MR. 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	0 FT	7929 FT

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
4.5 IN	11.6 LB/F		0 FT	7929 FT

REMARKS

RUN 1 TRIP 1: THIS IS THE FIRST LOG ON THIS WELL

LOGGED WITH ZERO PSI AT WELLHEAD

BHT = 249 degF

SJ = 6115' - 6136'

SJ = 7019' - 7040'

THANKS FOR USING BAKER HUGHES WIRELINE
RIG: PATTERSON 306

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
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RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	CBL	1426XA	10218496	CENTRALIZED
1	1	CCL/GR	1355ZA	11871506	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: Sun Apr 12 09:47:09 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH095880/n012g02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 19.000 ft BOTTOM DEPTH: 7916.190 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	"	"
TRAVEL TIME WINDOW (NEAR)	AMP WINDOW LENGTH	25	us	"	"
	TT WINDOW START (ttn*)	171	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*)	-66	us	"	"
	TOOL DELAY (str2*)	-66	us	"	"
	TOOL DELAY (str3*)	-66	us	"	"
	TOOL DELAY (str4*)	-66	us	"	"
	TOOL DELAY (str5*)	-66	us	"	"
	TOOL DELAY (str6*)	-66	us	"	"
	TOOL DELAY (str7*)	-66	us	"	"
	TOOL DELAY (str8*)	-66	us	"	"
	TOOL DELAY (strn*)	-66	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	131	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	"	"

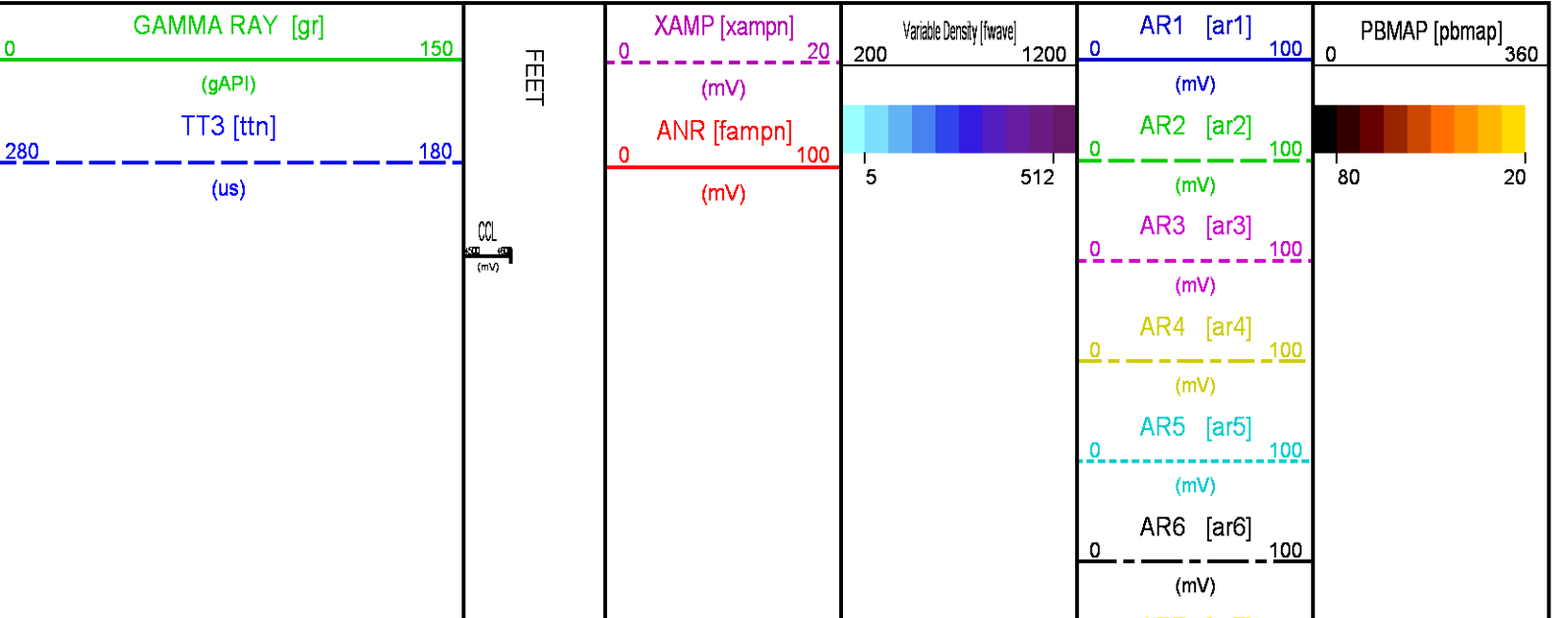
CURVE DESCRIPTION REPORT

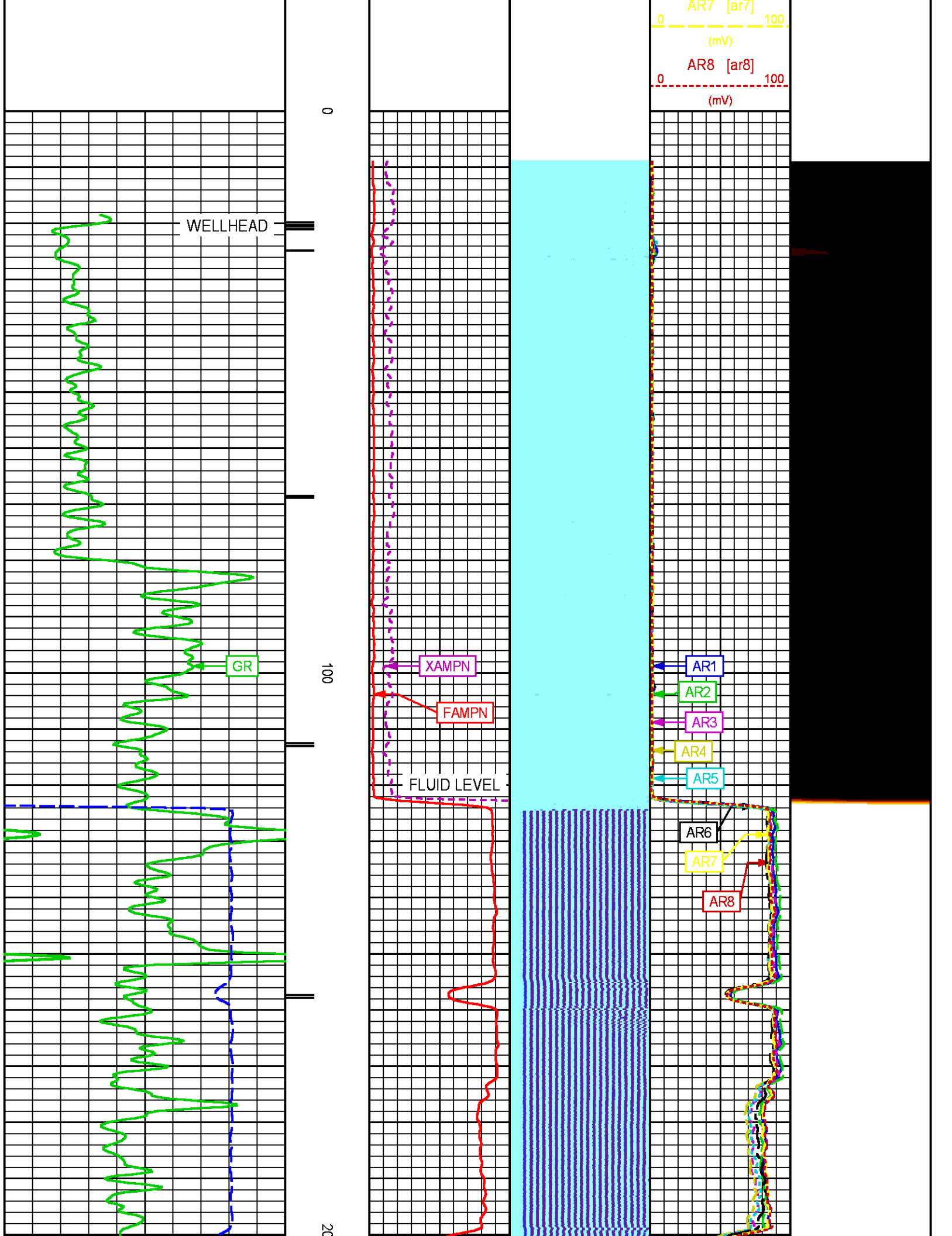
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Apr 12 07:58:02 2015	FIXED GATE AMPLITUDE T-R1
F1:AR2	Apr 12 07:58:02 2015	FIXED GATE AMPLITUDE T-R2
F1:AR3	Apr 12 07:58:02 2015	FIXED GATE AMPLITUDE T-R3
F1:AR4	Apr 12 07:58:02 2015	FIXED GATE AMPLITUDE T-R4
F1:AR5	Apr 12 07:58:02 2015	FIXED GATE AMPLITUDE T-R5
F1:AR6	Apr 12 07:58:02 2015	FIXED GATE AMPLITUDE T-R6
F1:AR7	Apr 12 07:58:02 2015	FIXED GATE AMPLITUDE T-R7
F1:AR8	Apr 12 07:58:02 2015	FIXED GATE AMPLITUDE T-R8
F1:CCL	Apr 12 07:58:02 2015	CASING COLLAR LOCATOR
F1:FAMPN	Apr 12 07:58:02 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Apr 12 07:58:02 2015	FAR WAVE FORM
F1:GR	Apr 12 07:58:02 2015	GAMMA RAY
F1:PBMAP	Apr 12 07:58:02 2015	PERCENT BOND CEMENT MAP
F1:TTN	Apr 12 07:58:02 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Apr 12 07:58:02 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

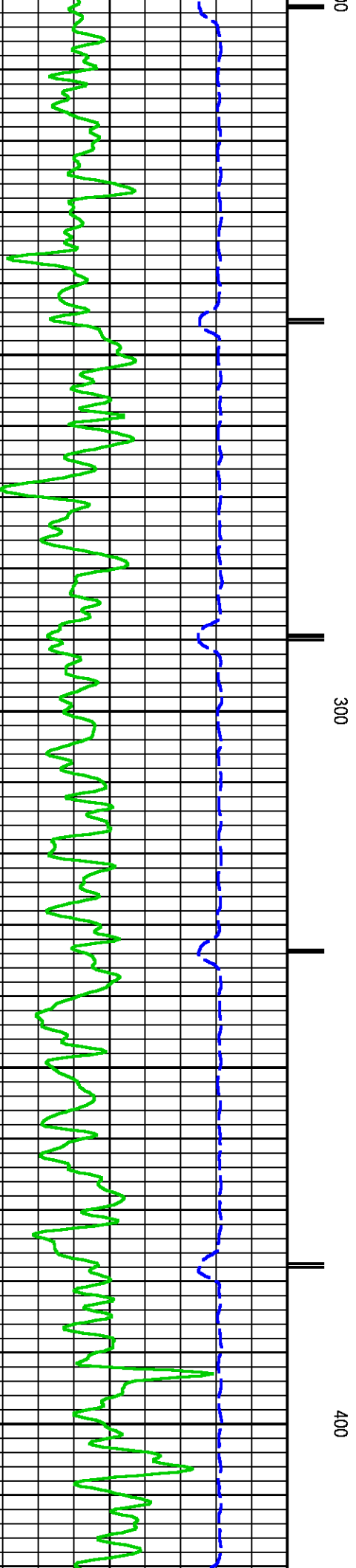
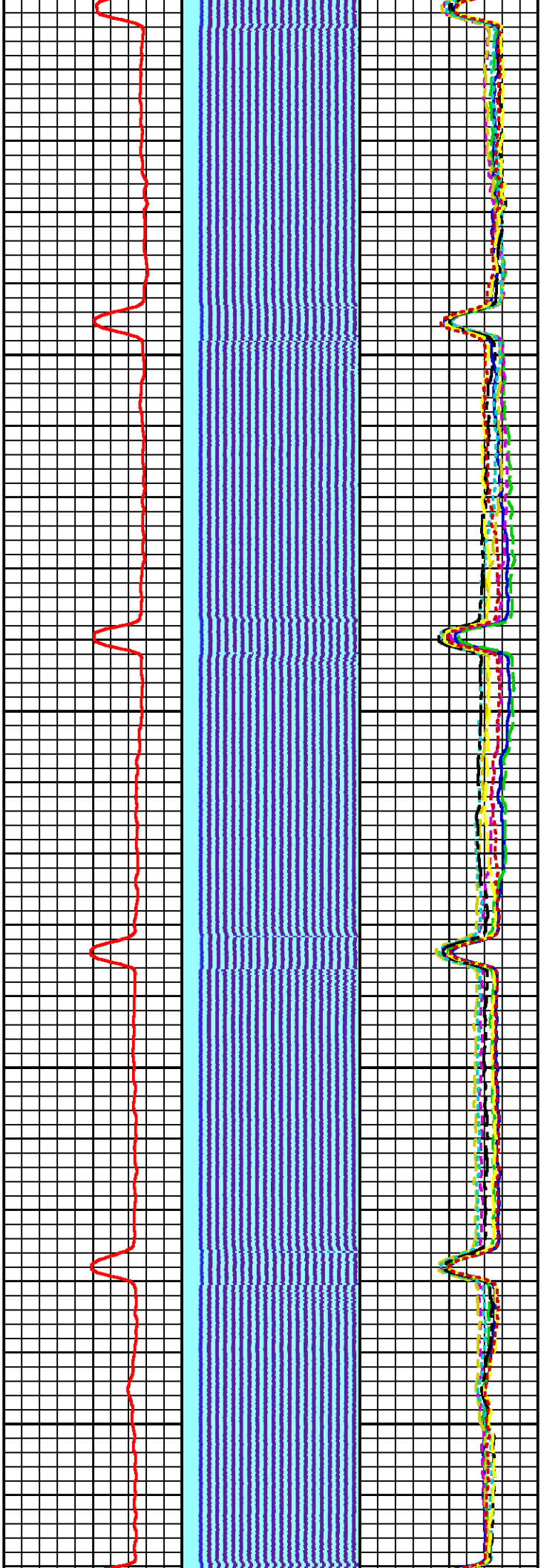
CURVE MEASURE POINT OFFSET

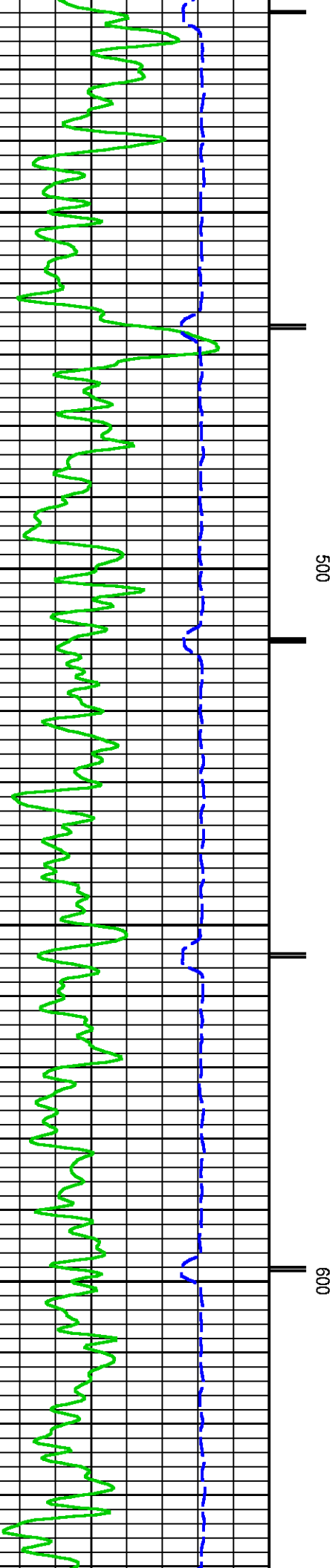
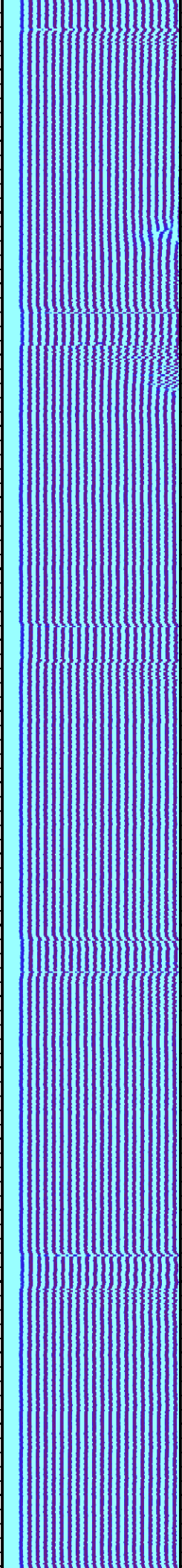
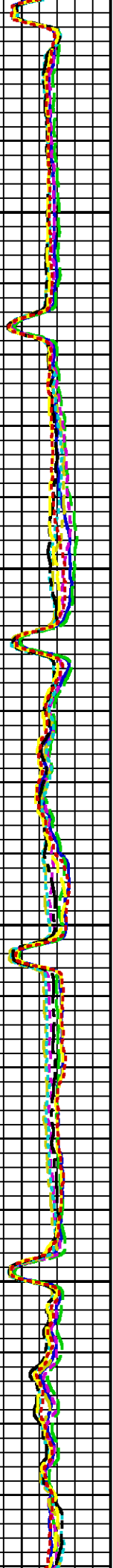
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	11.25	AR5	11.25	CCL	5.75	XAMPN	11.25
AR2	11.25	AR6	11.25	FAMPN	11.25		
AR3	11.25	AR7	11.25	GR	1.75		
AR4	11.25	AR8	11.25	TTN	11.25		

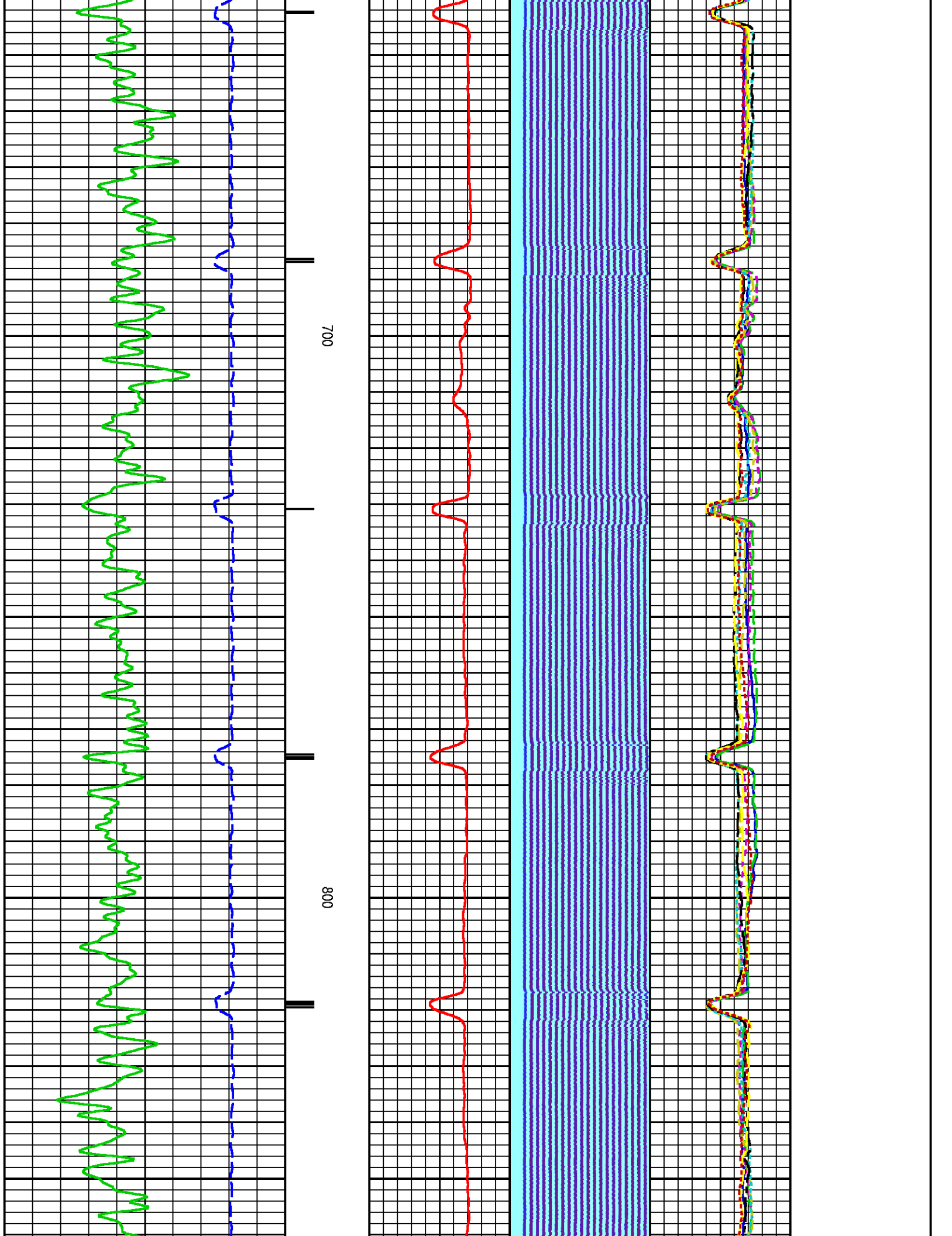
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Plot Interval	: 0 - 7913 Feet
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Created On	: Apr 12 07:58:02 2015
Company	: LARAMIE ENERGY
Well	: PICEANCE 28-11W
Field	: VEGA
File Interval	: 7.75 - 7916.5 Feet
OCT	: n012g

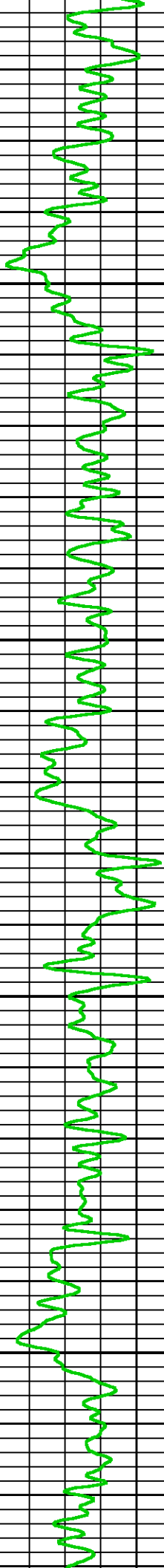
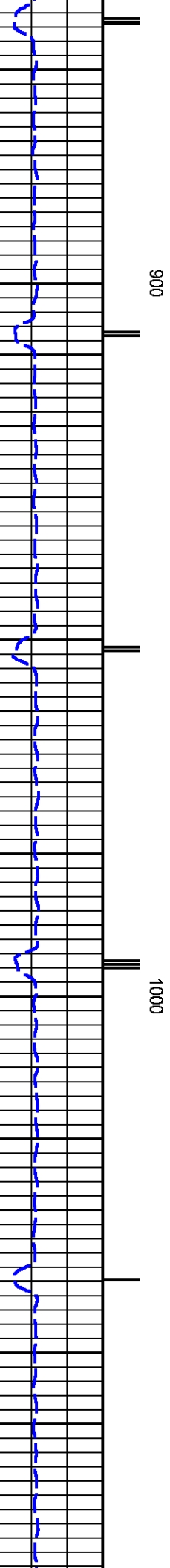
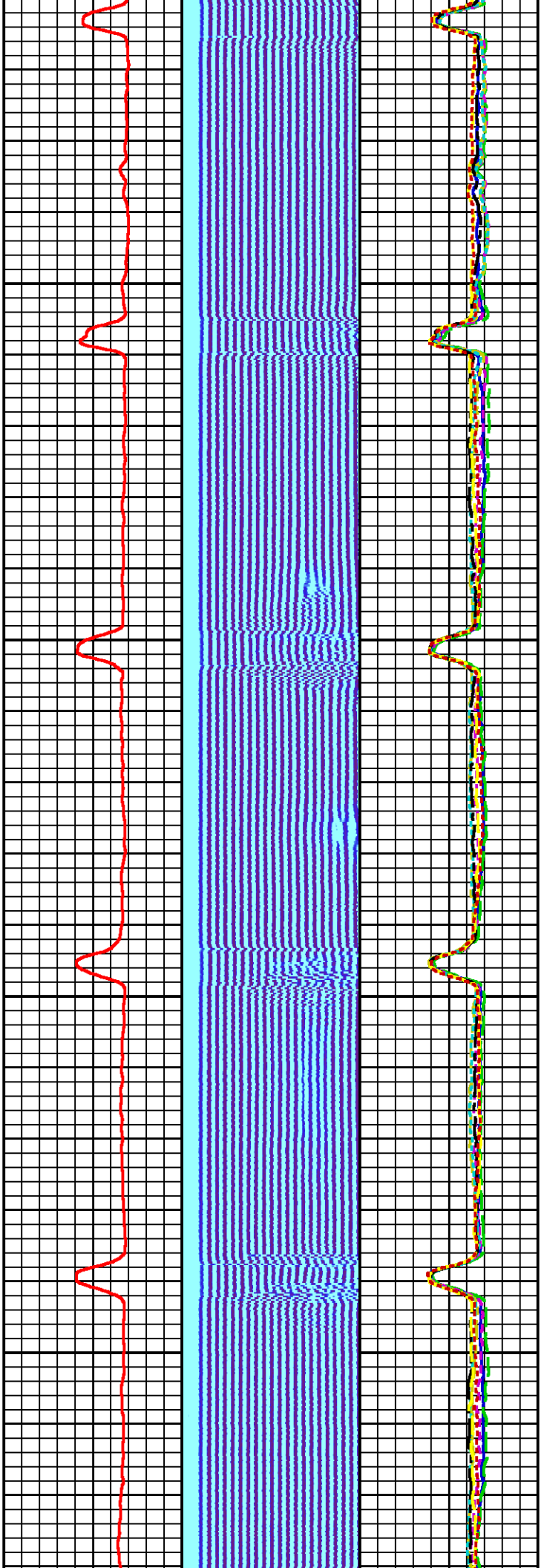


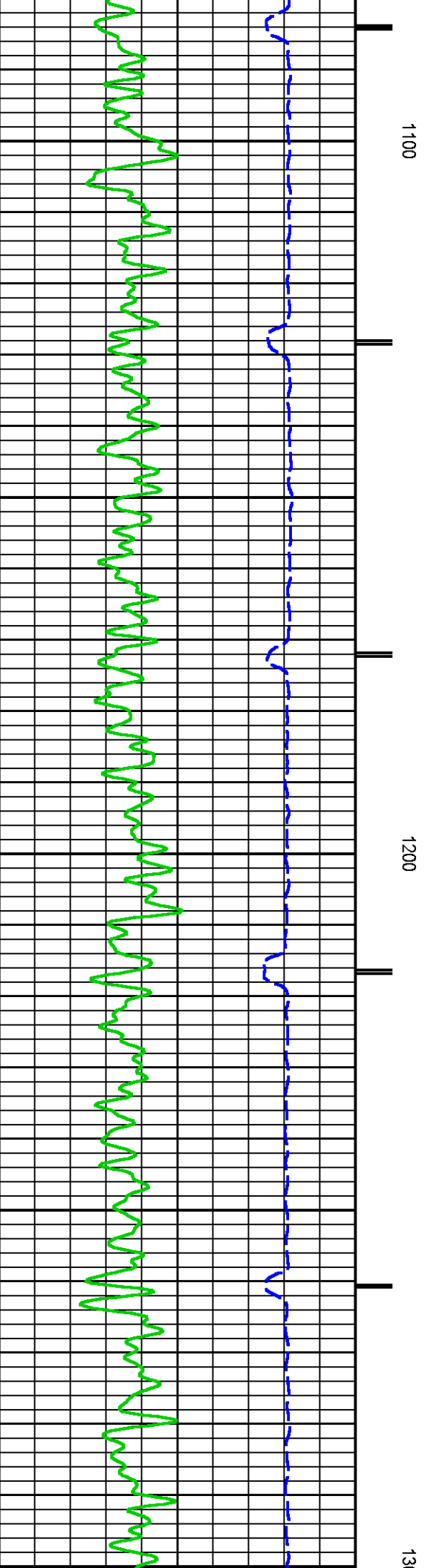
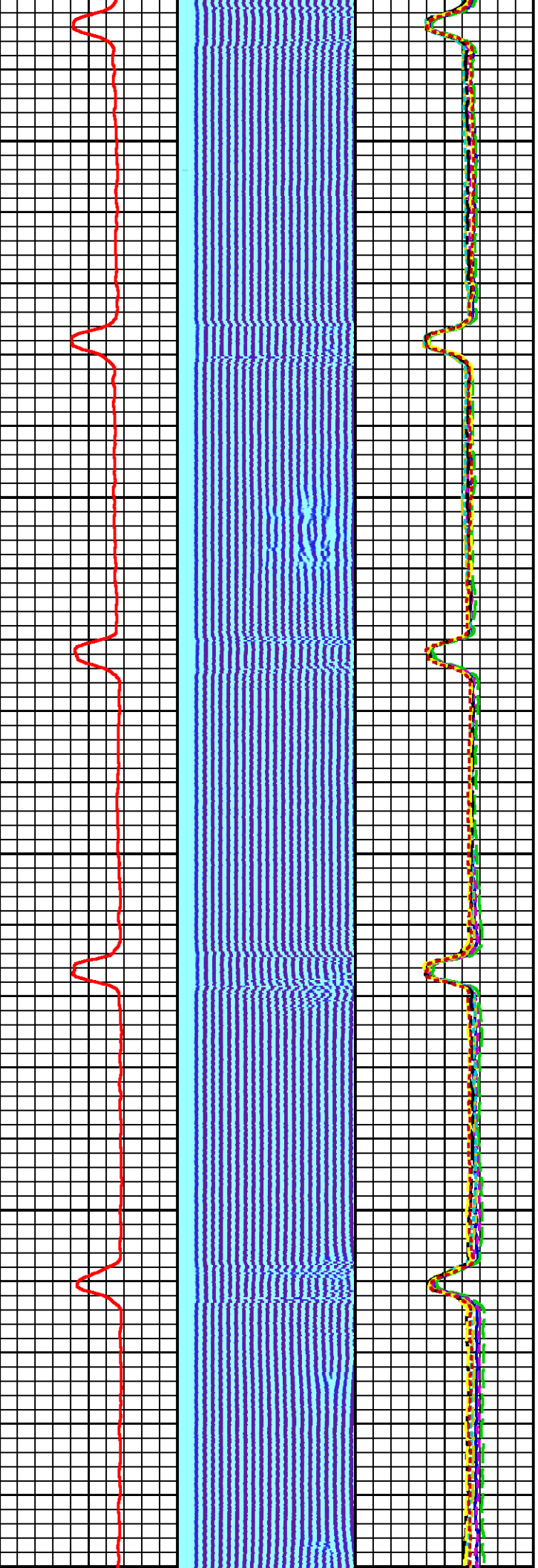


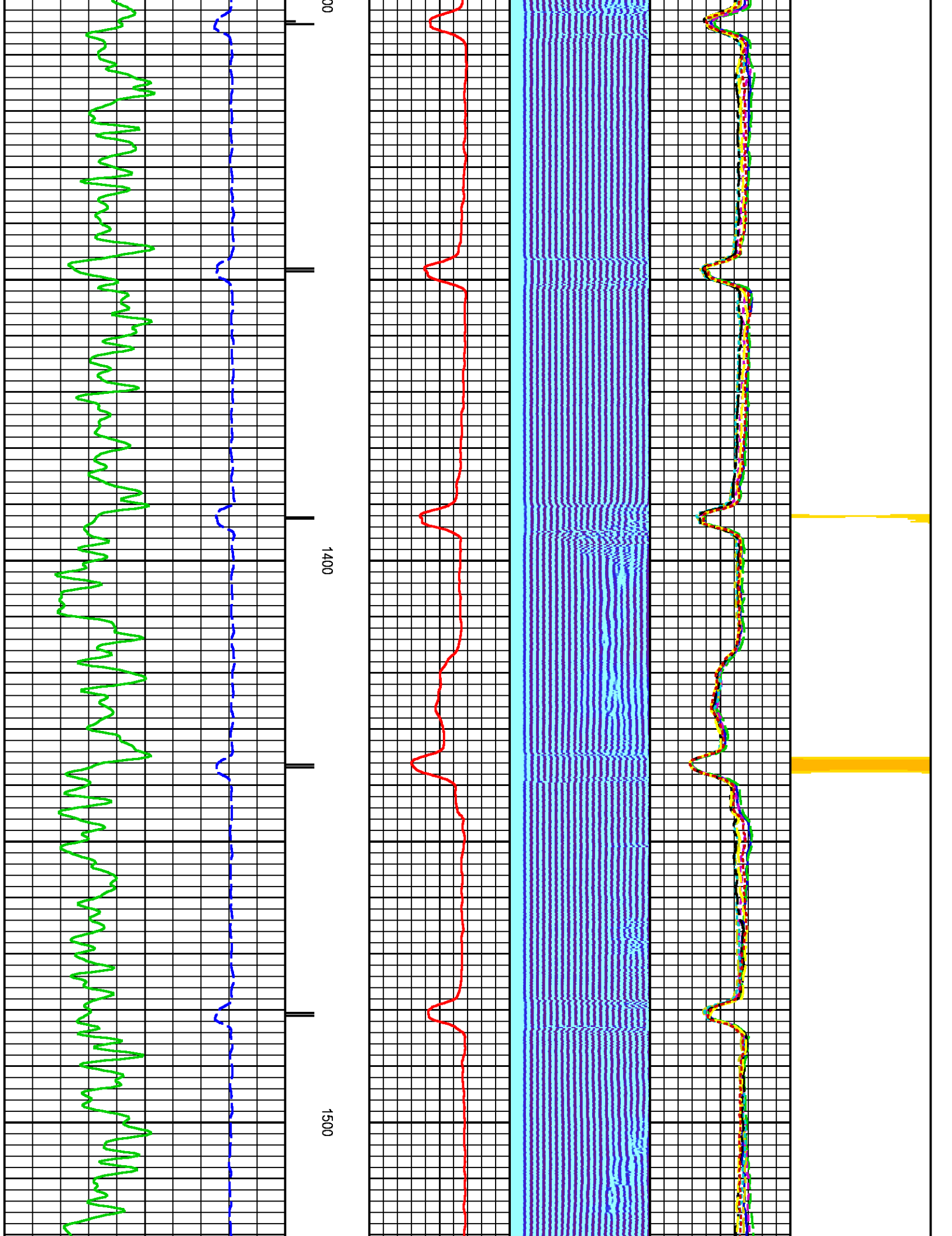


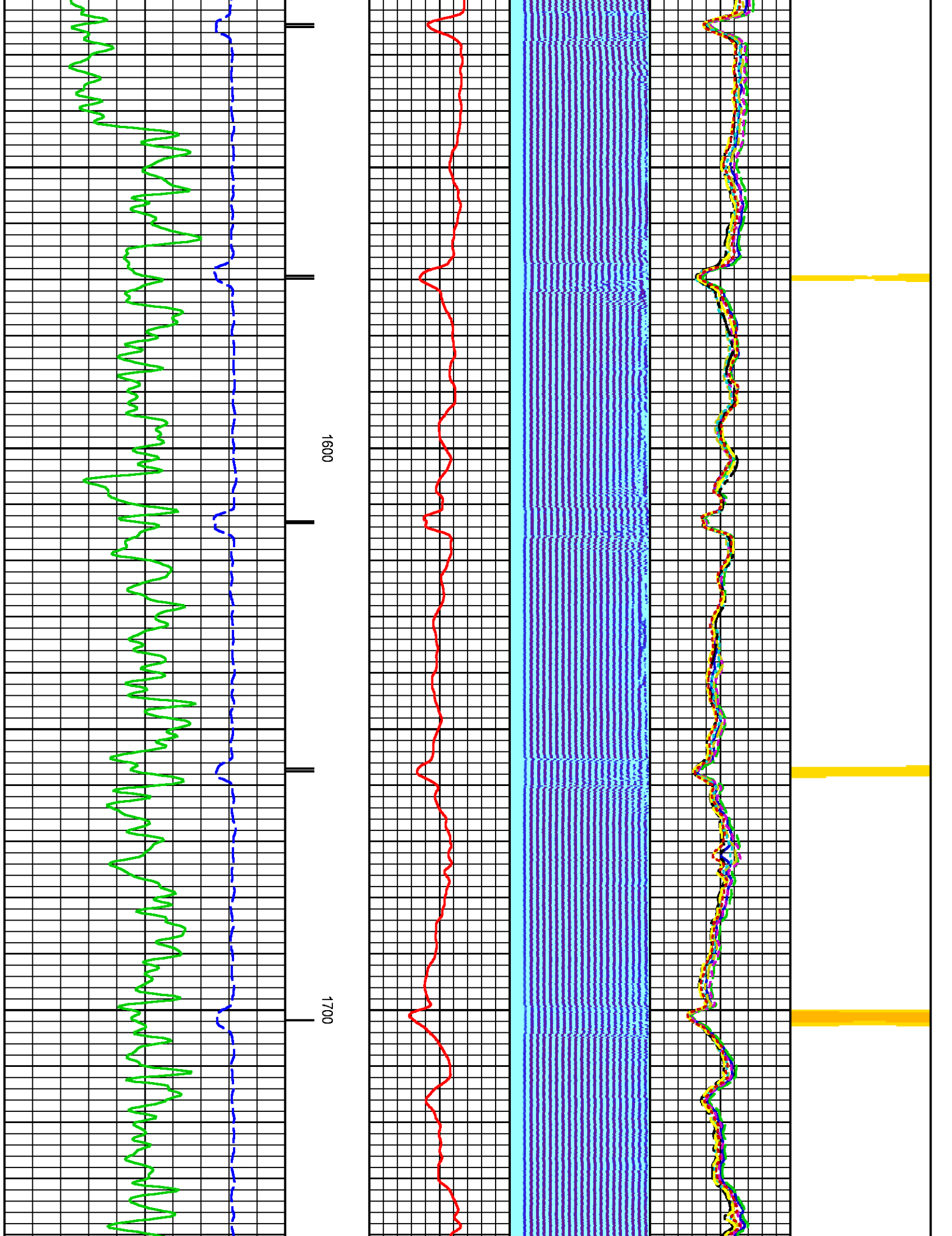


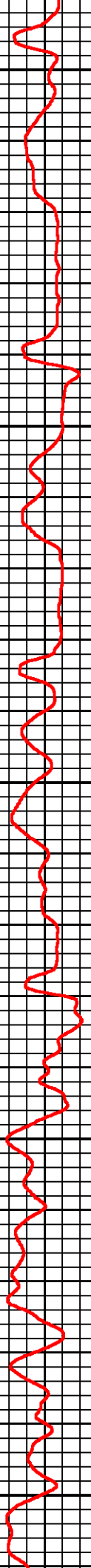
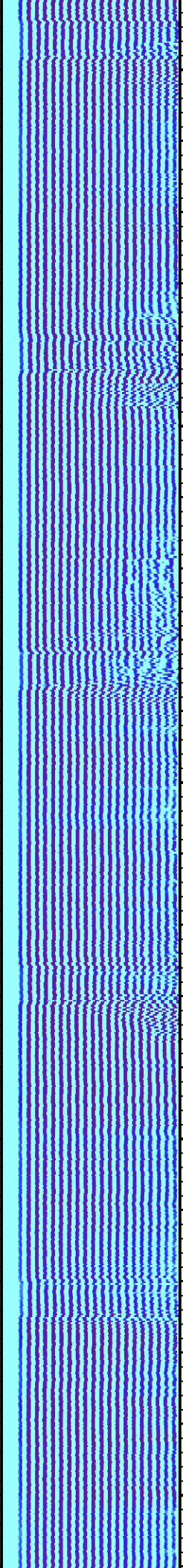
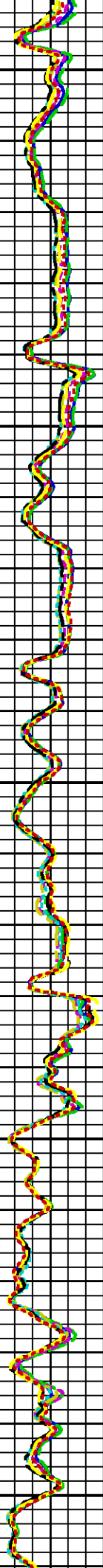






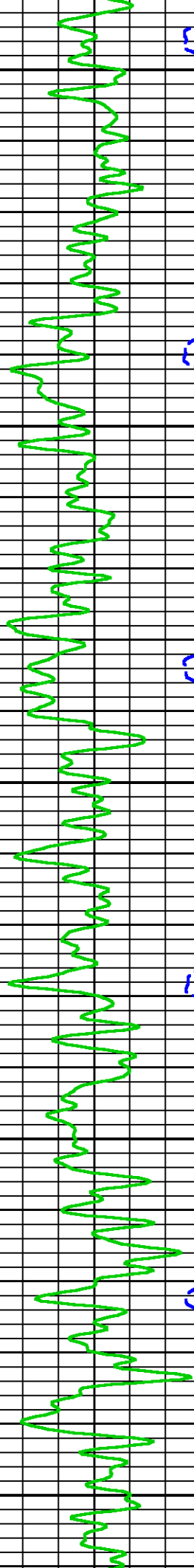
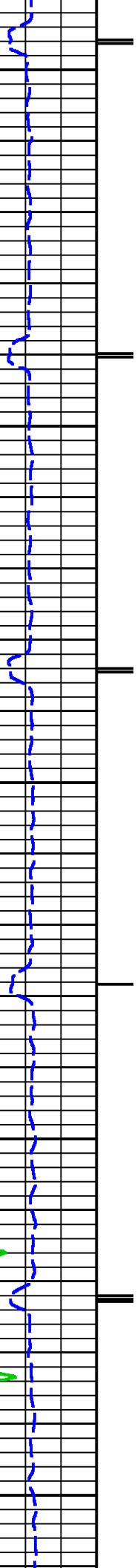


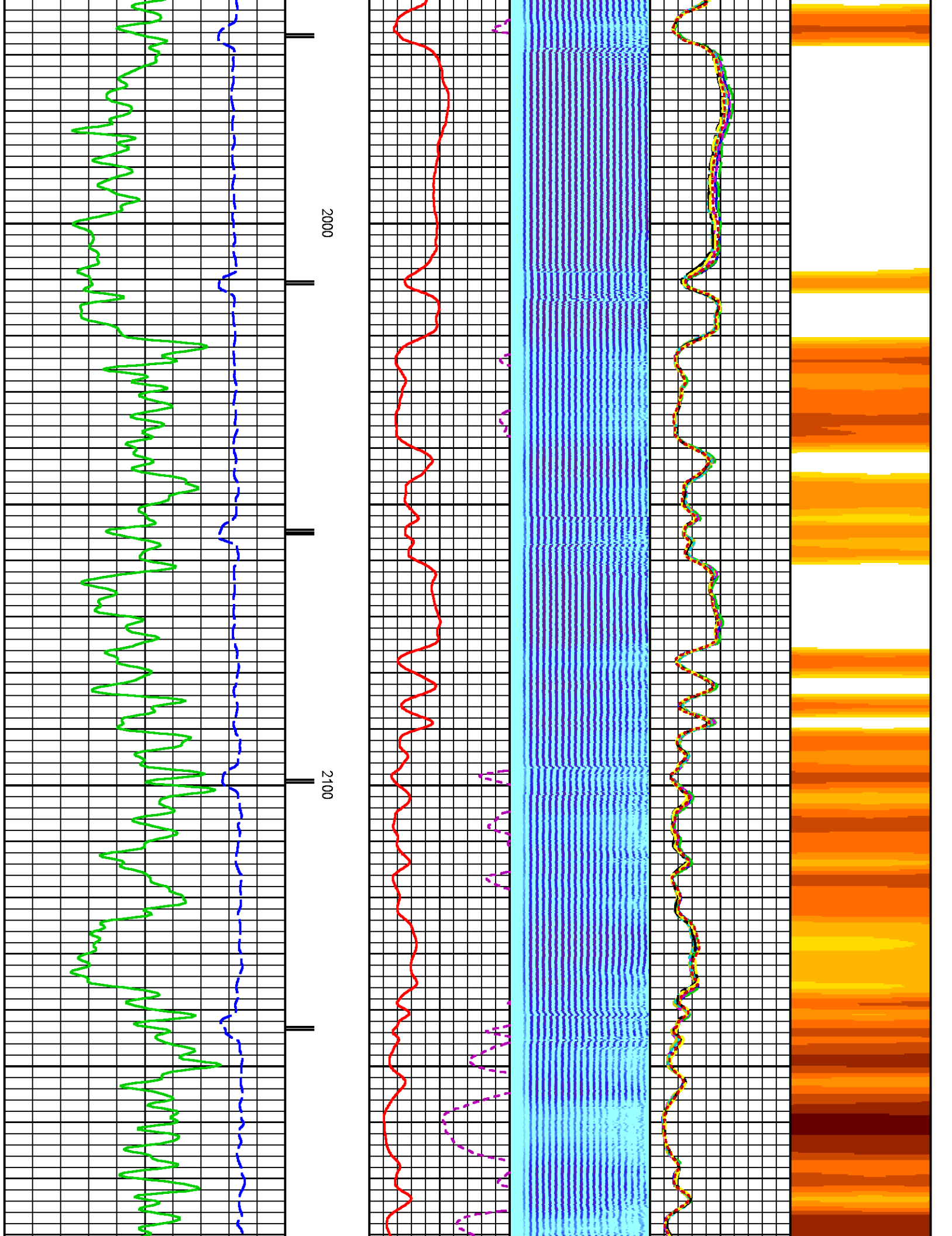


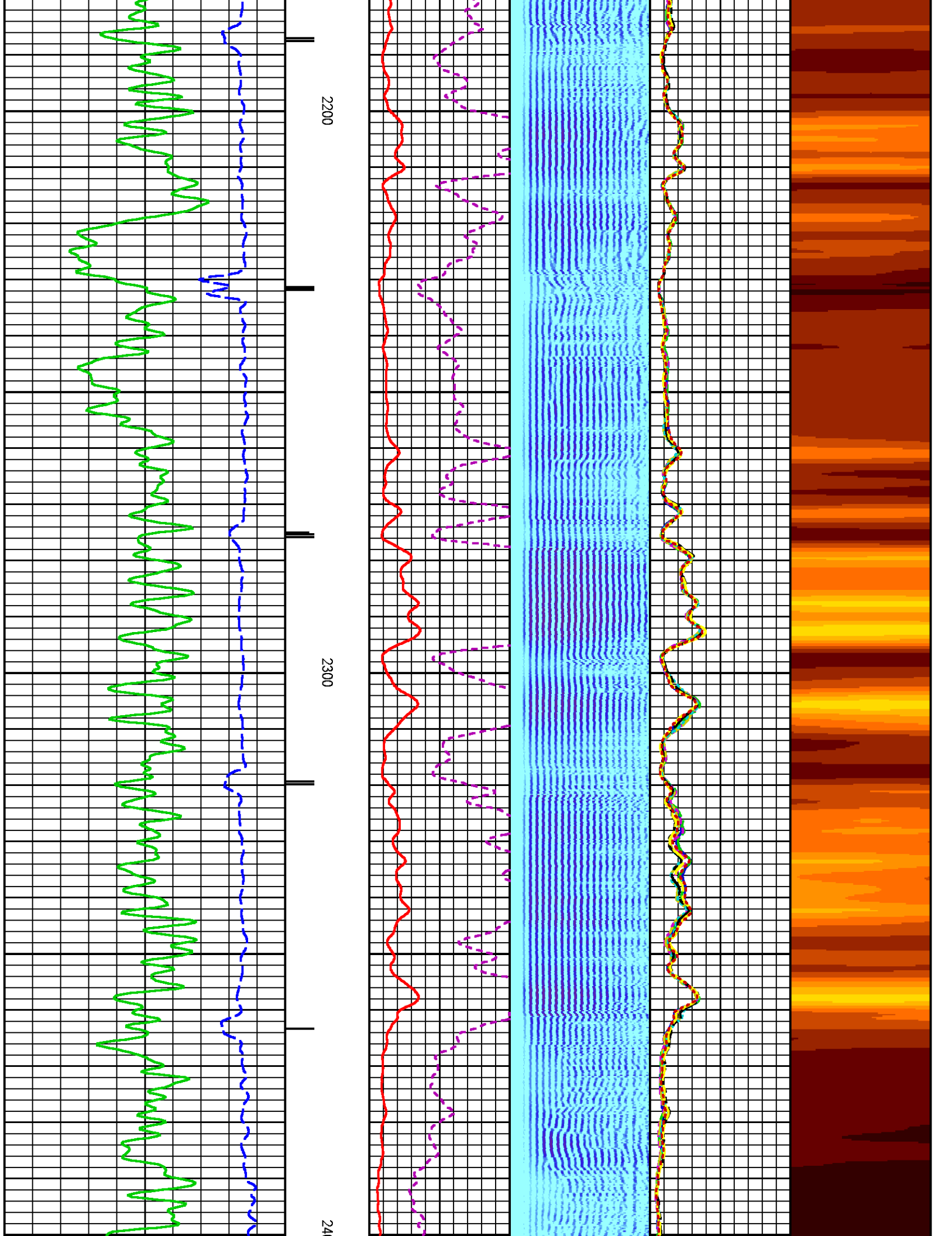


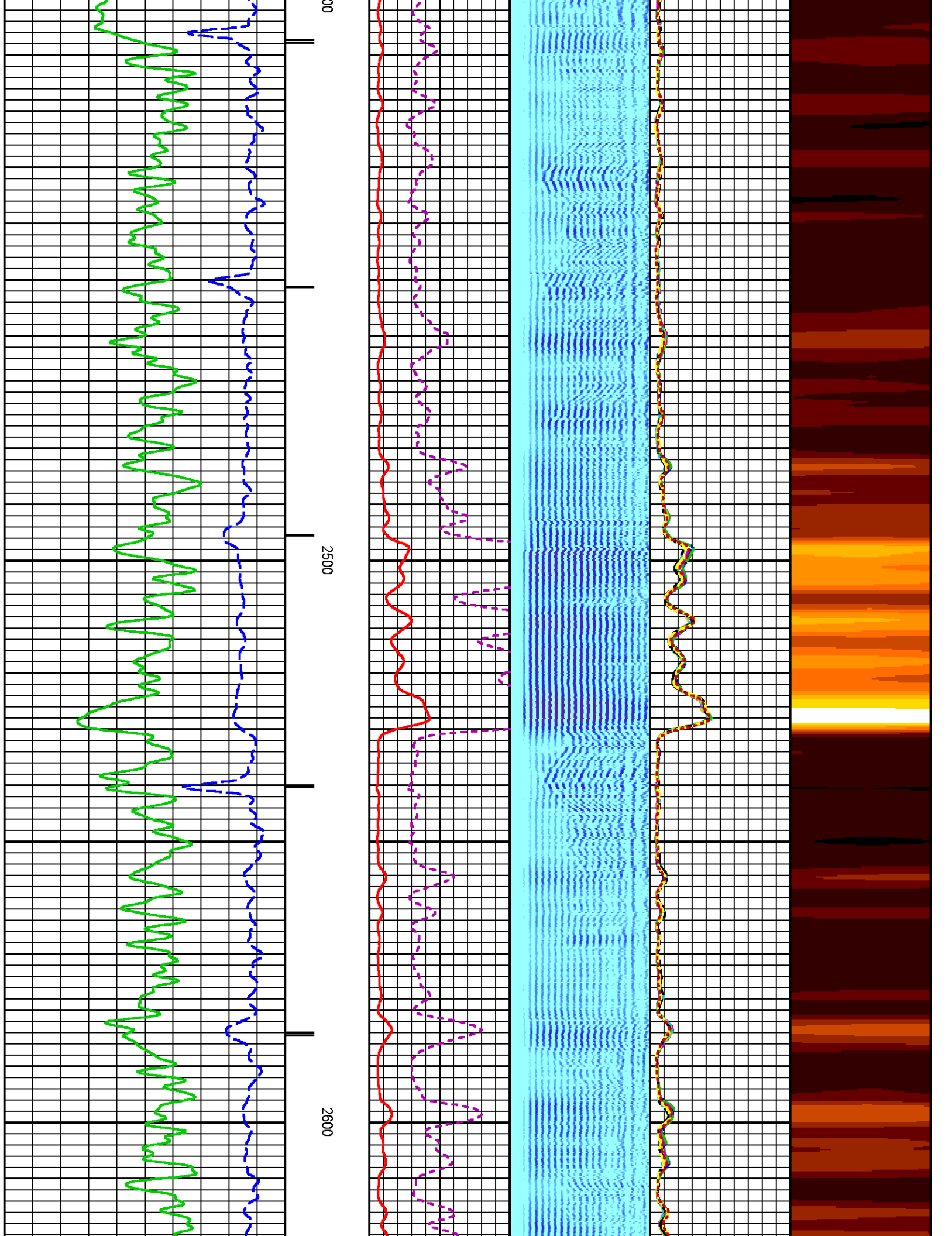
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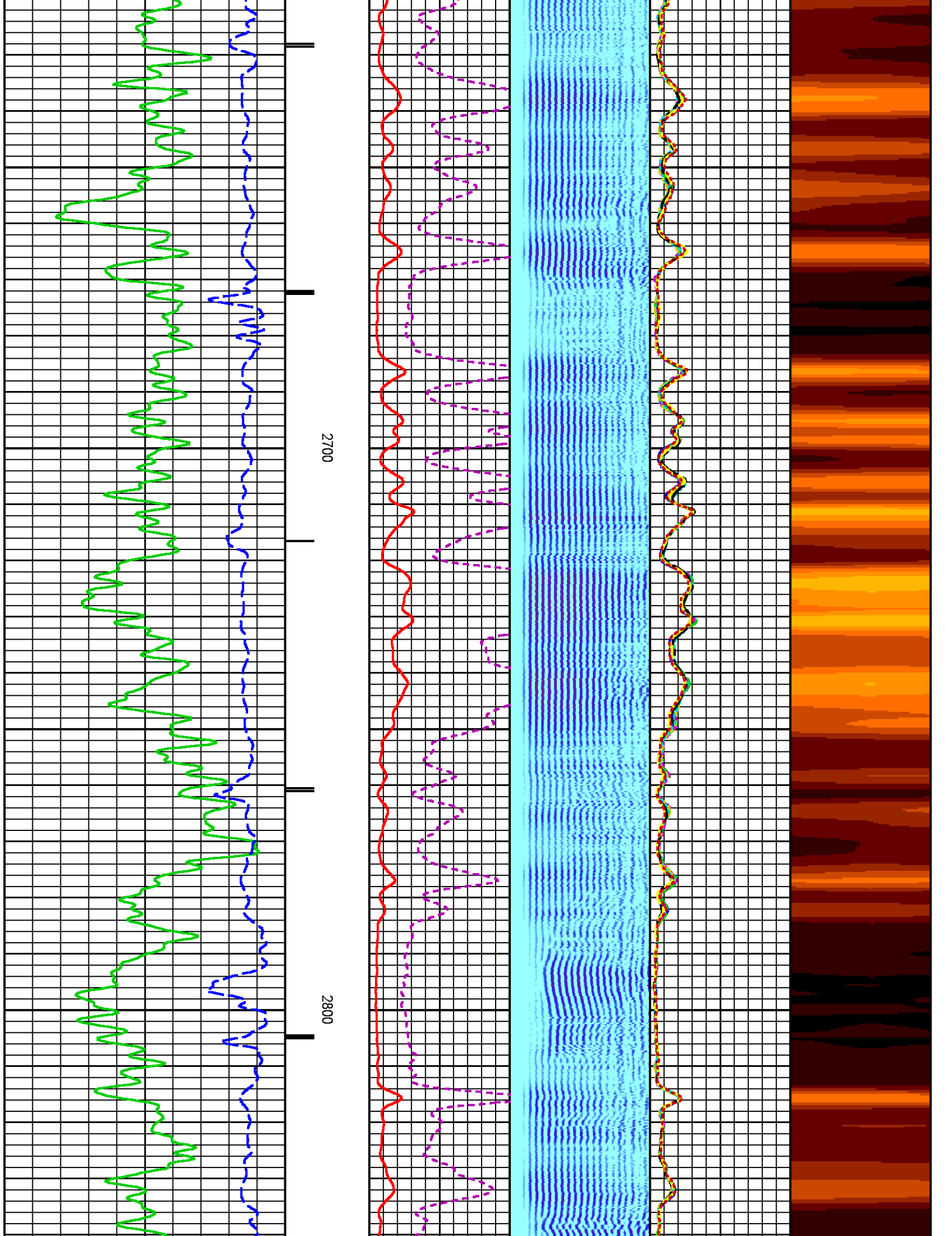
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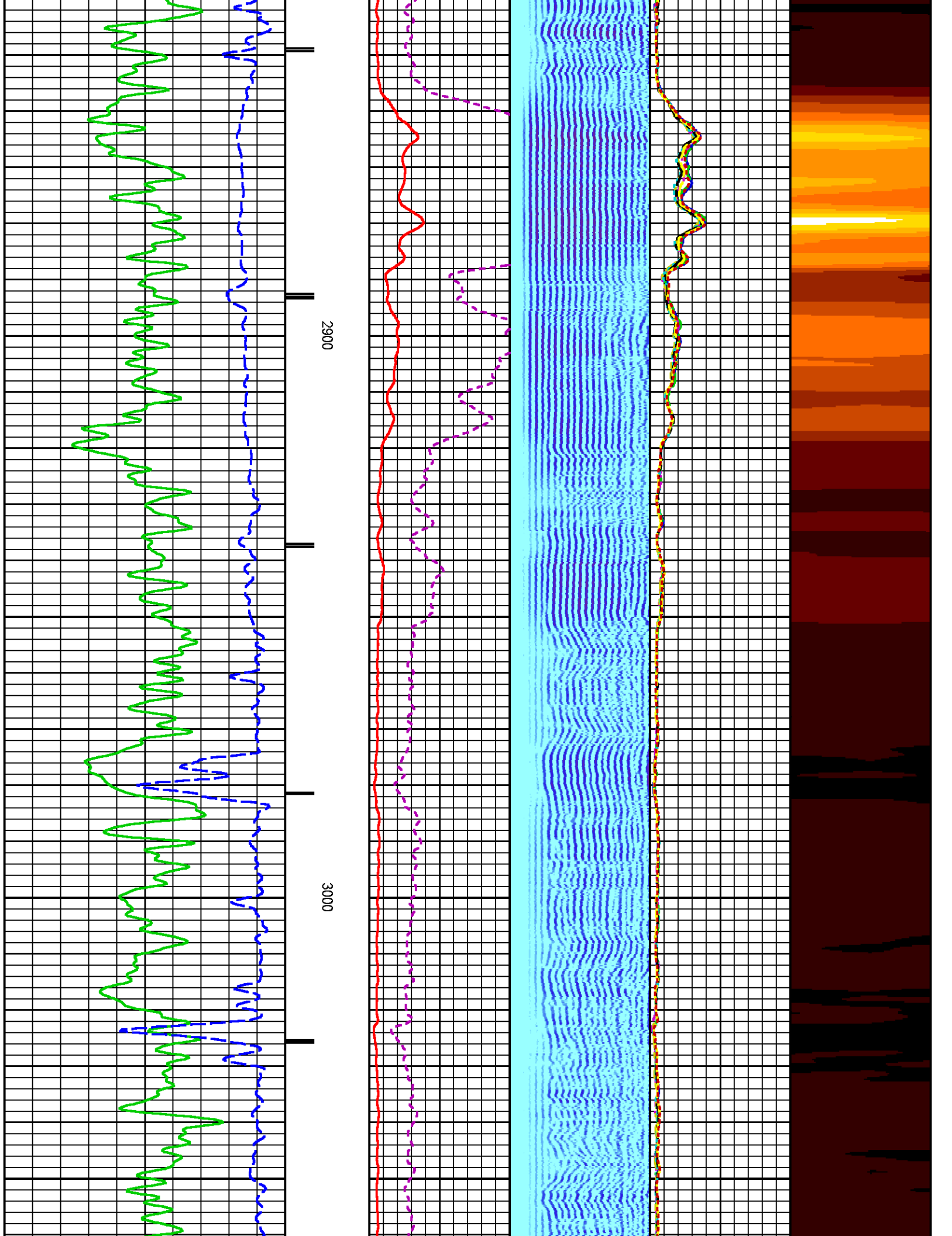


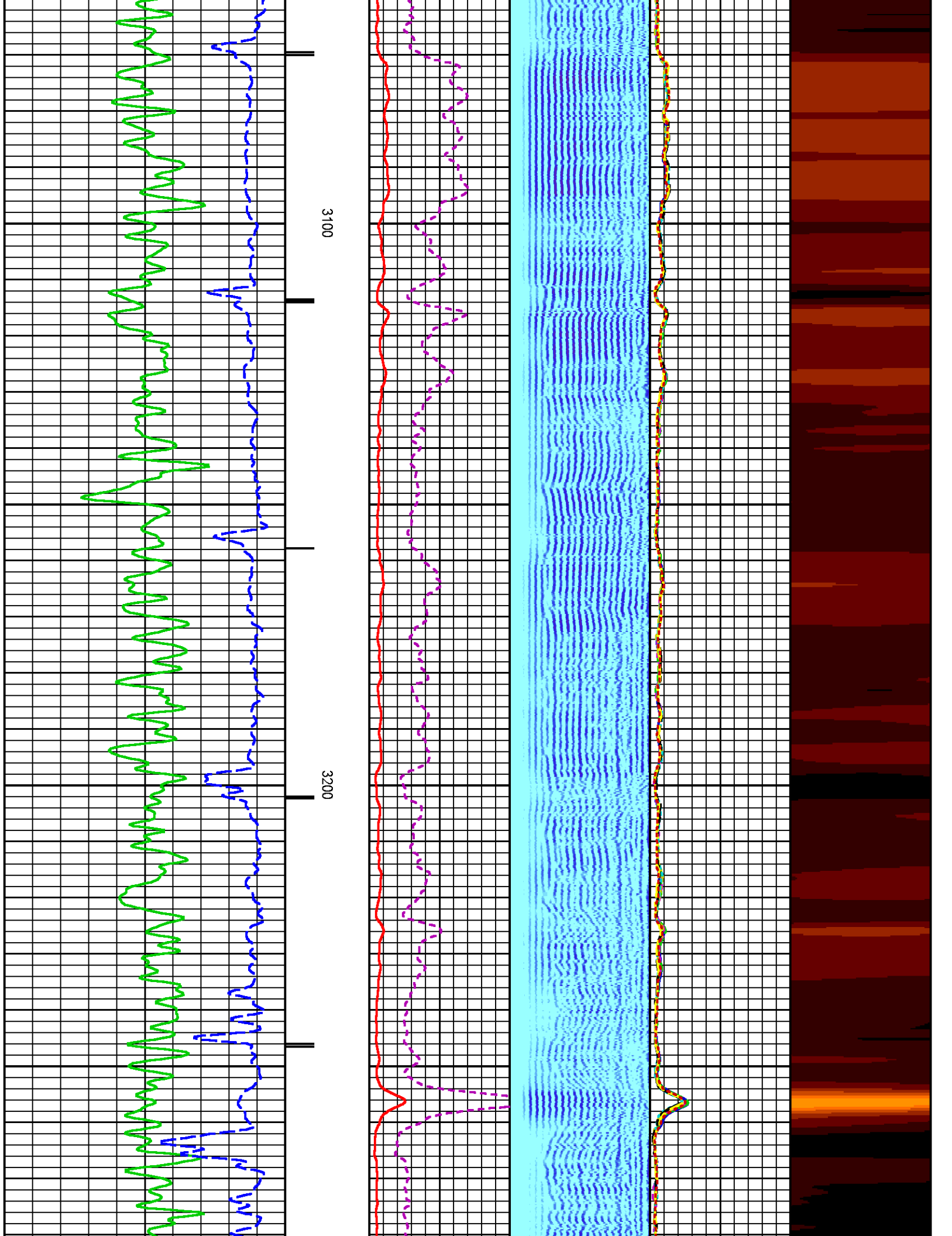


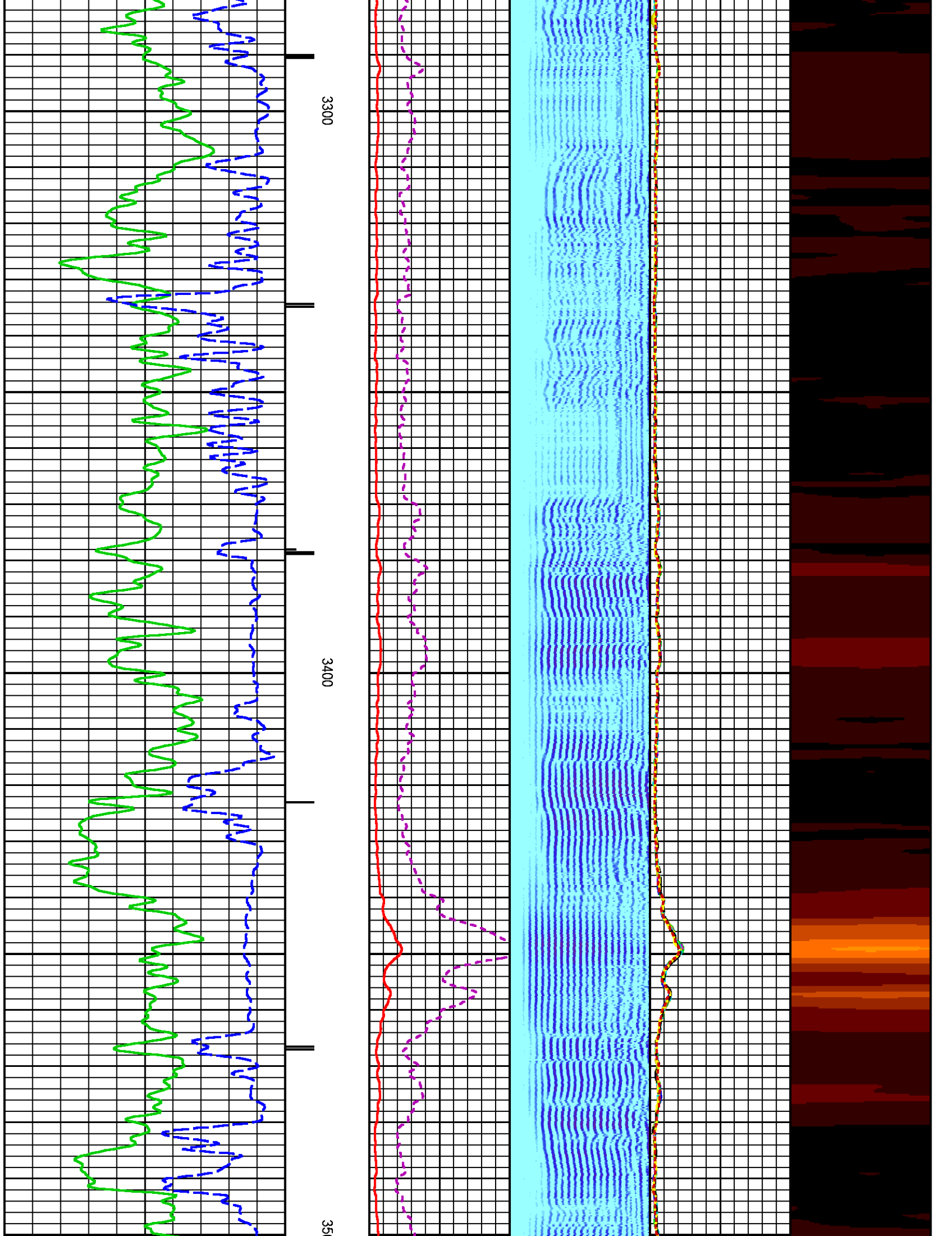


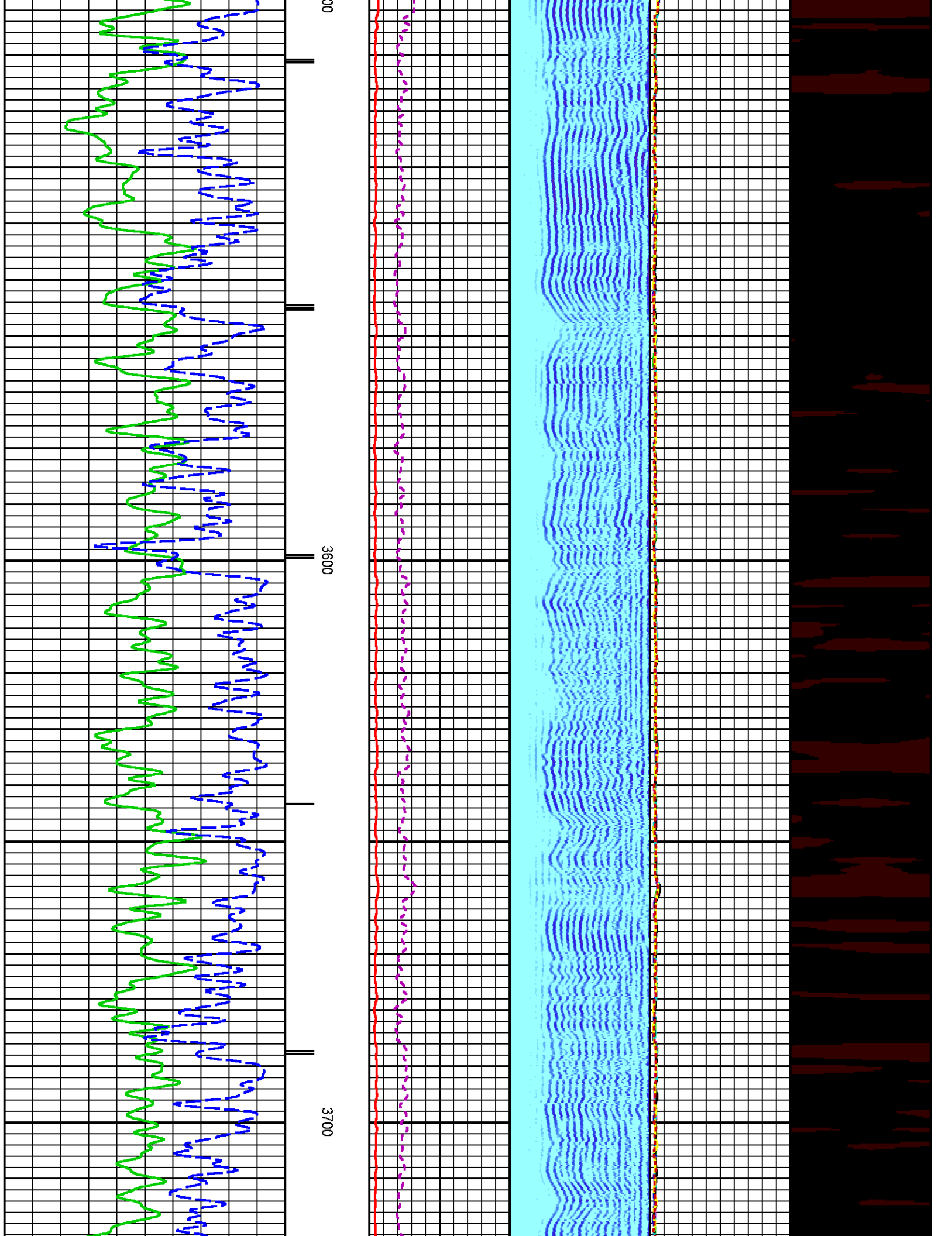


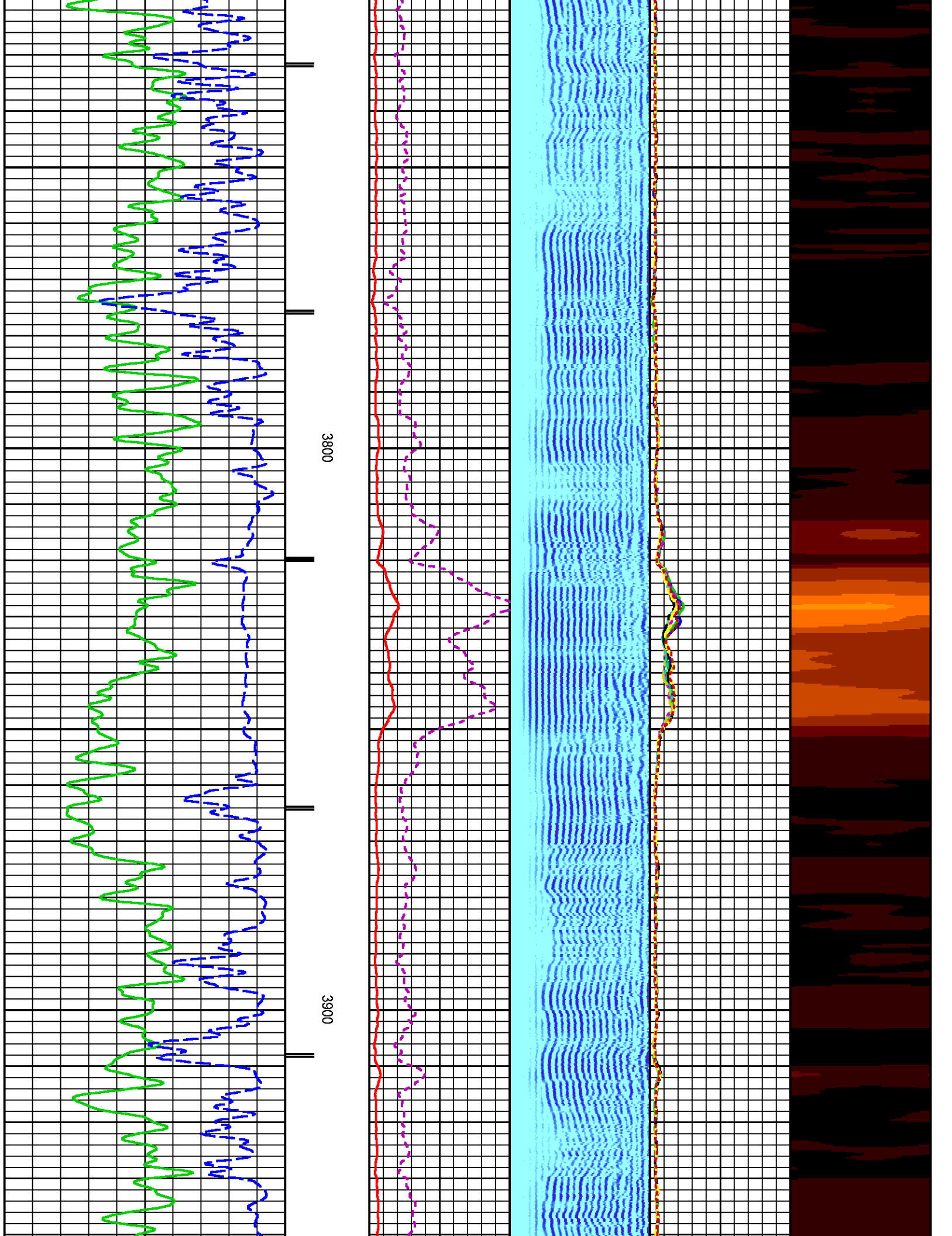


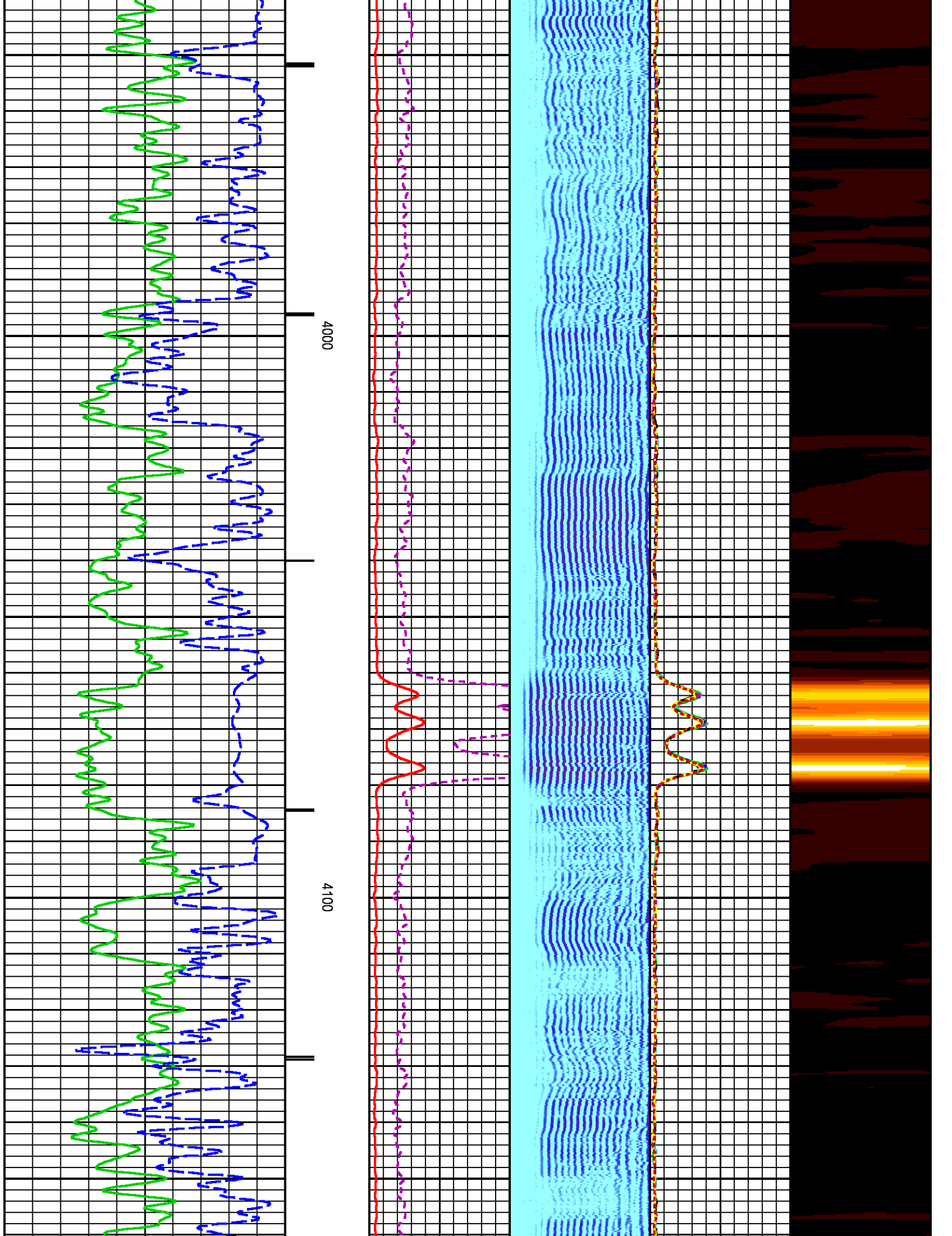


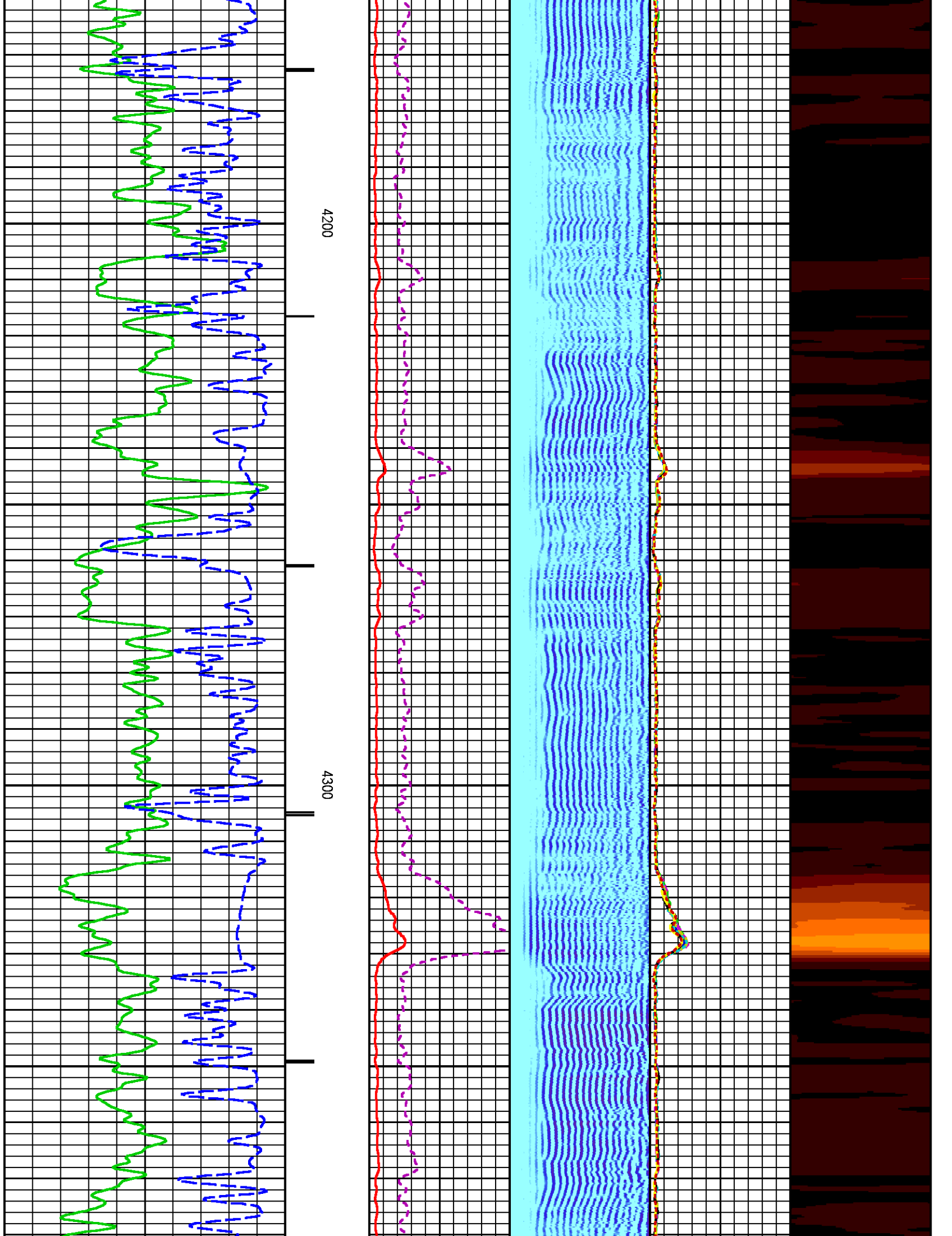


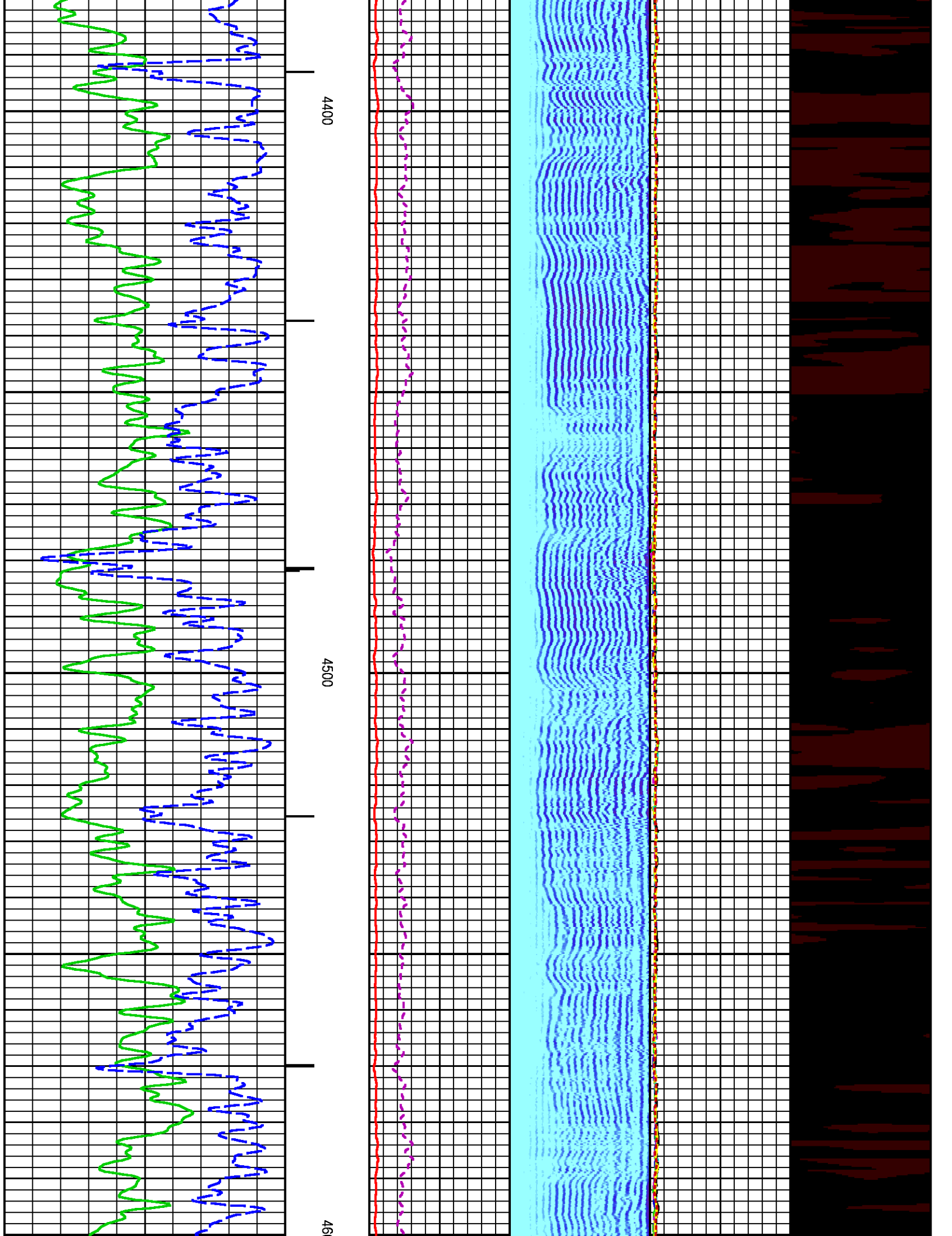


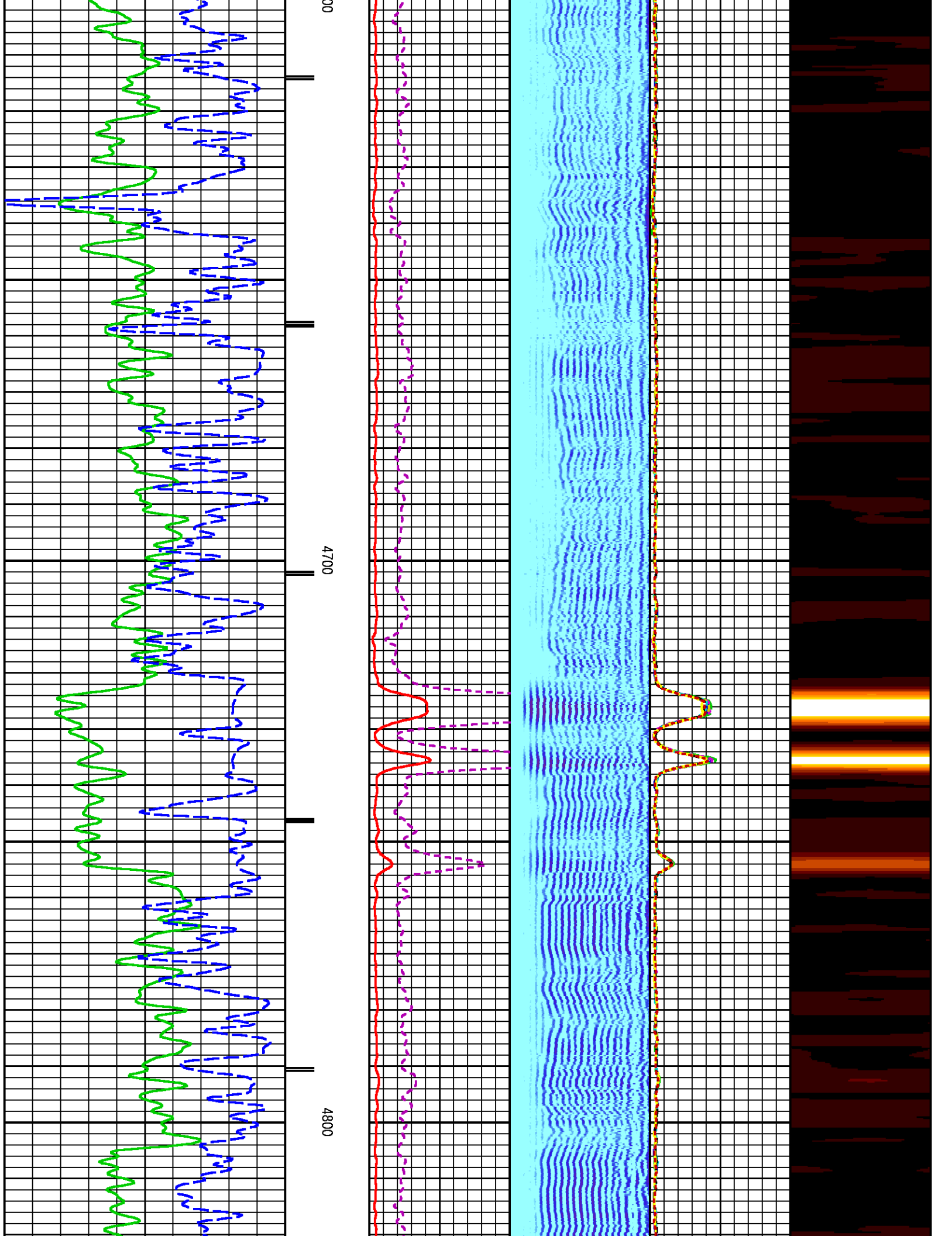


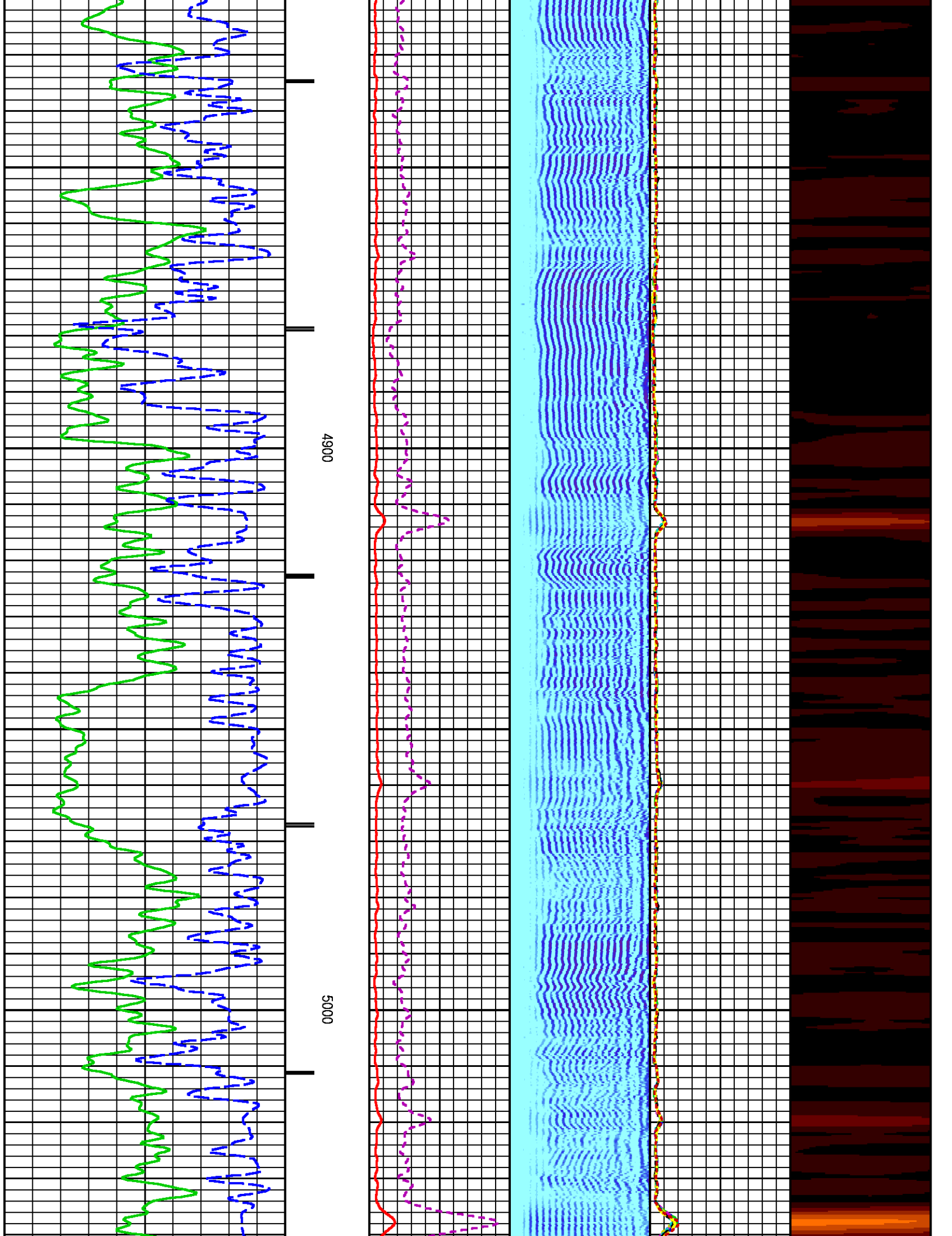


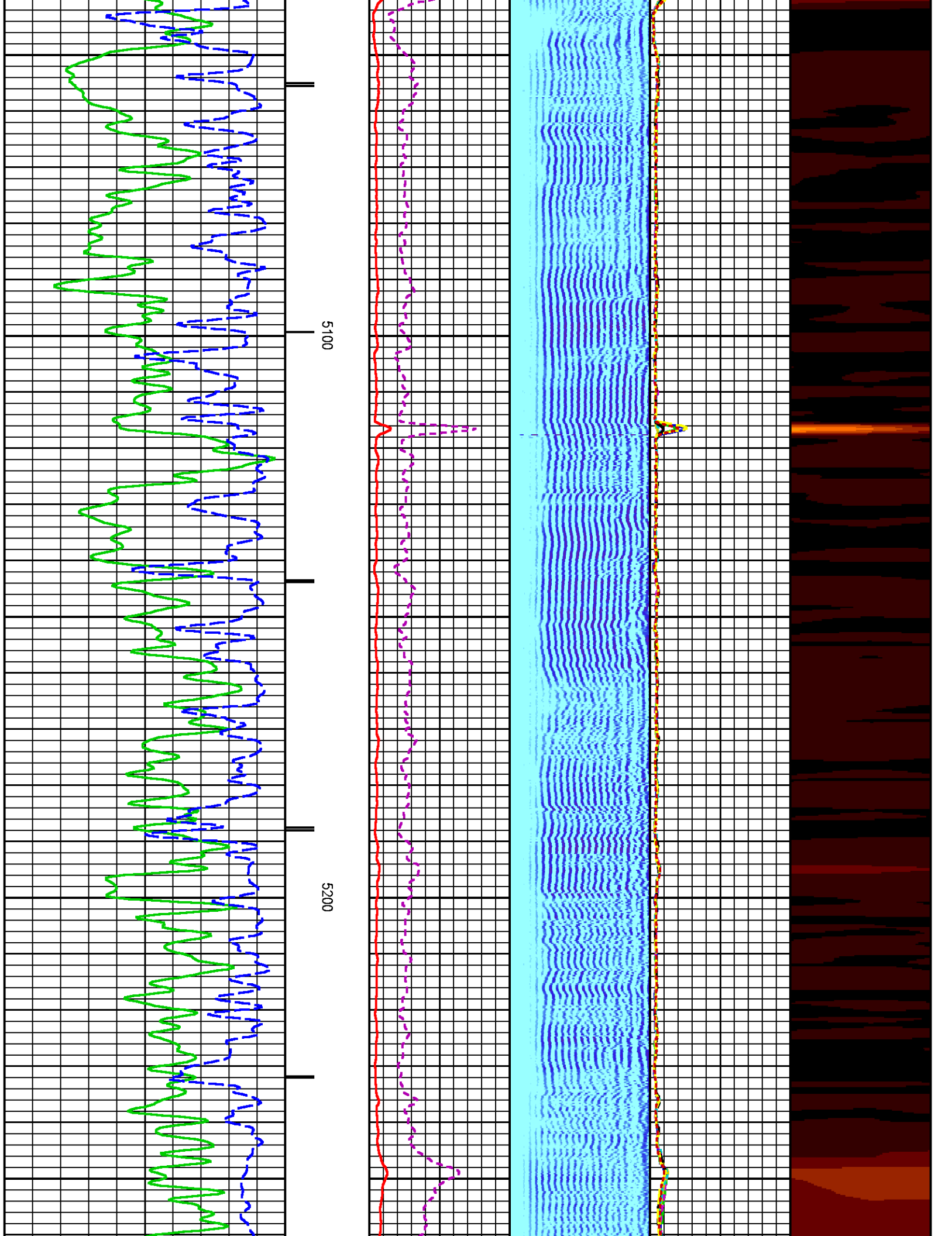


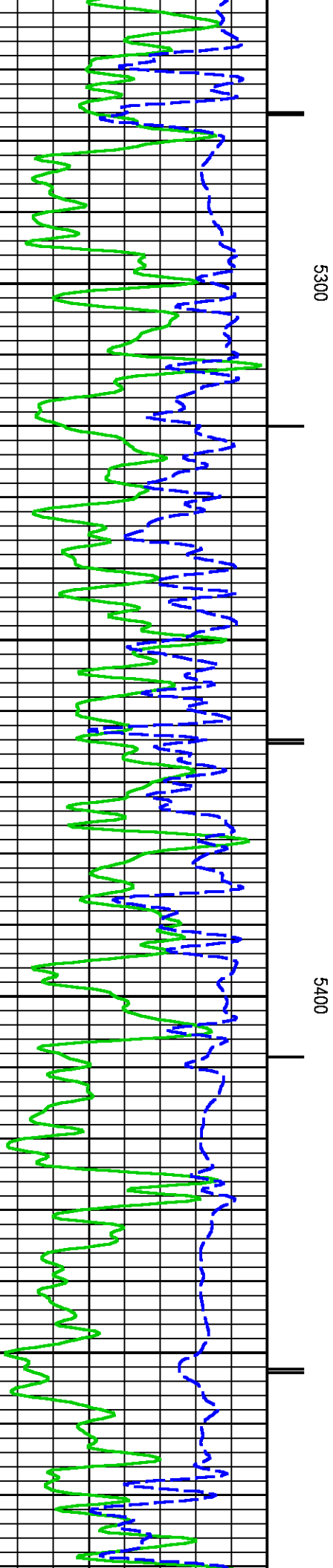
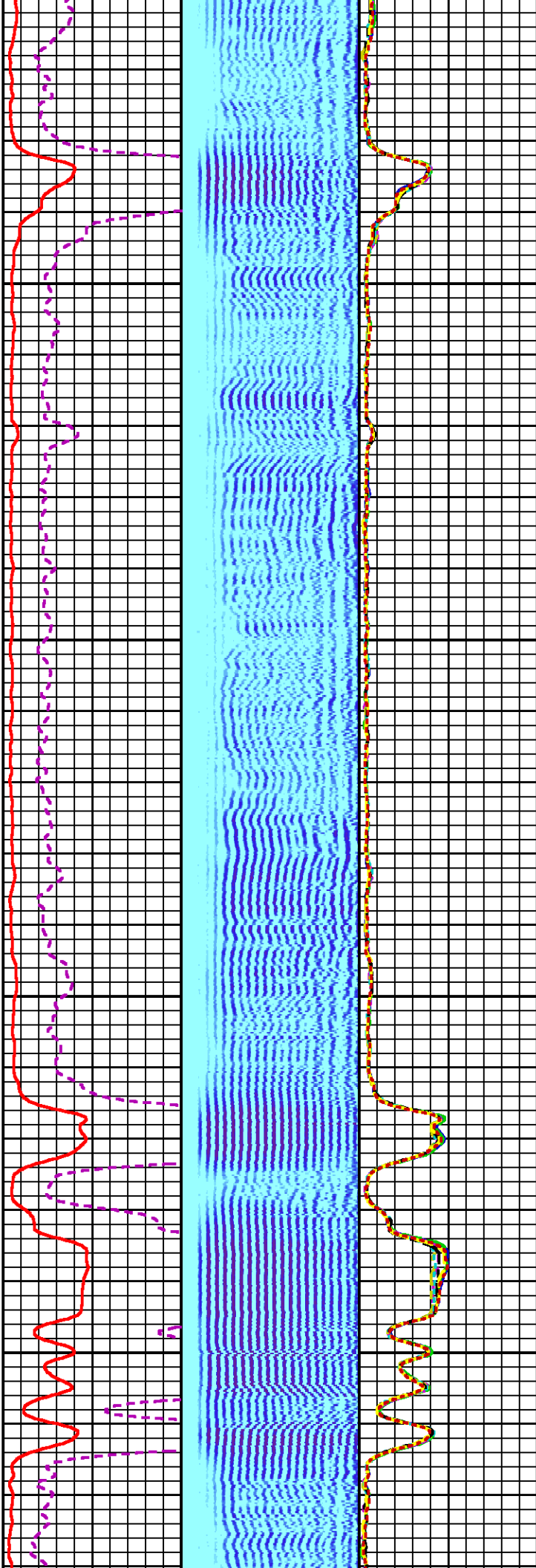


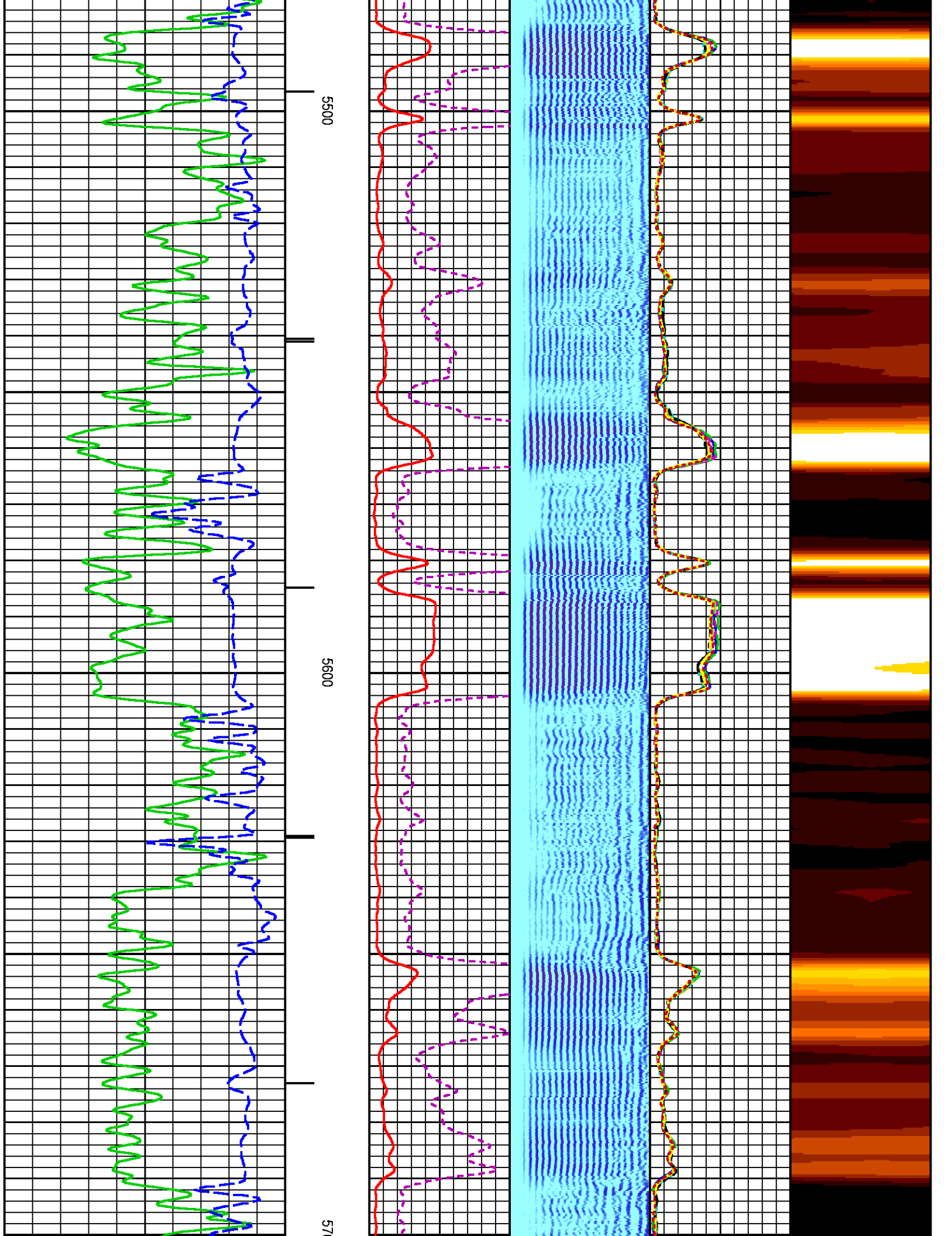


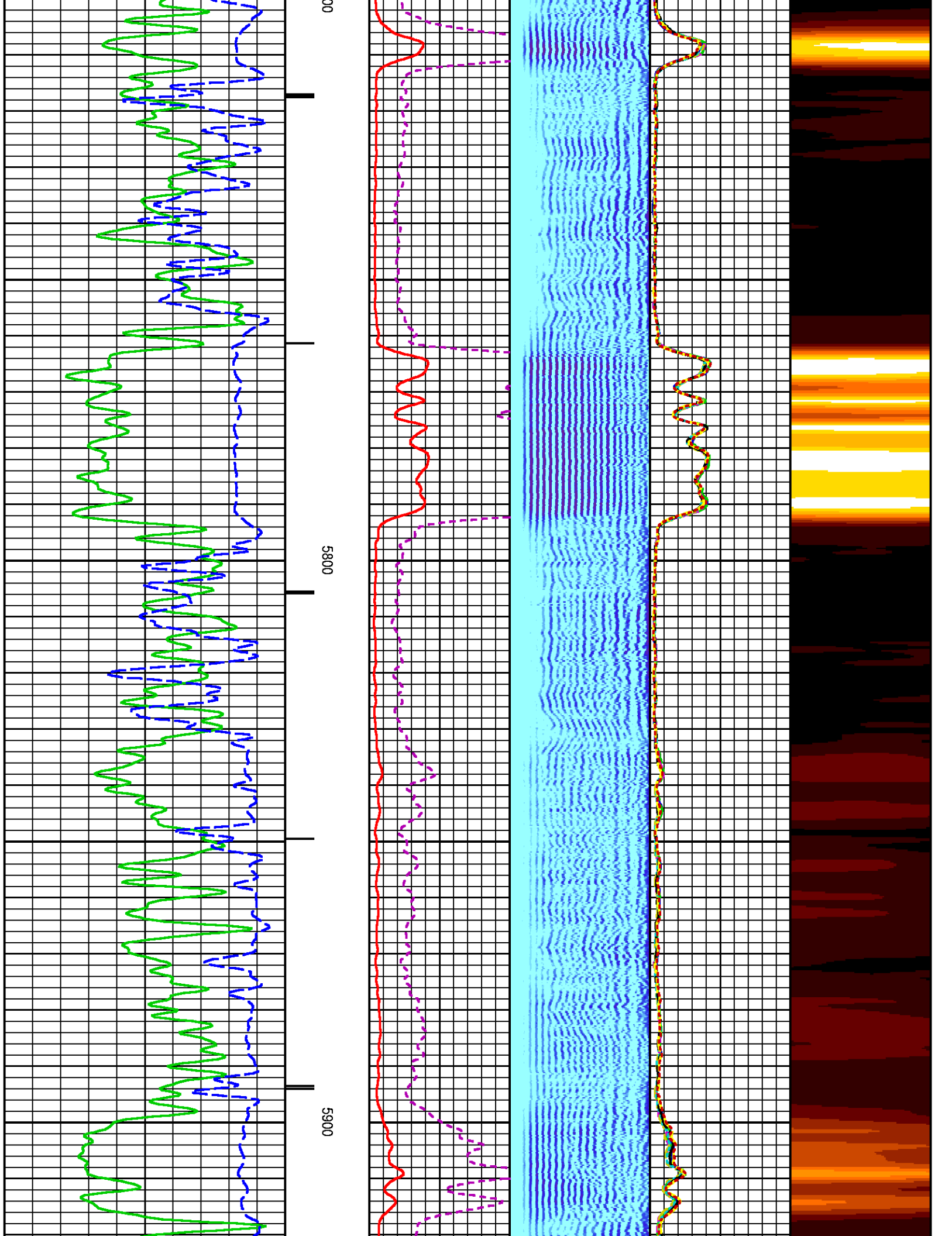


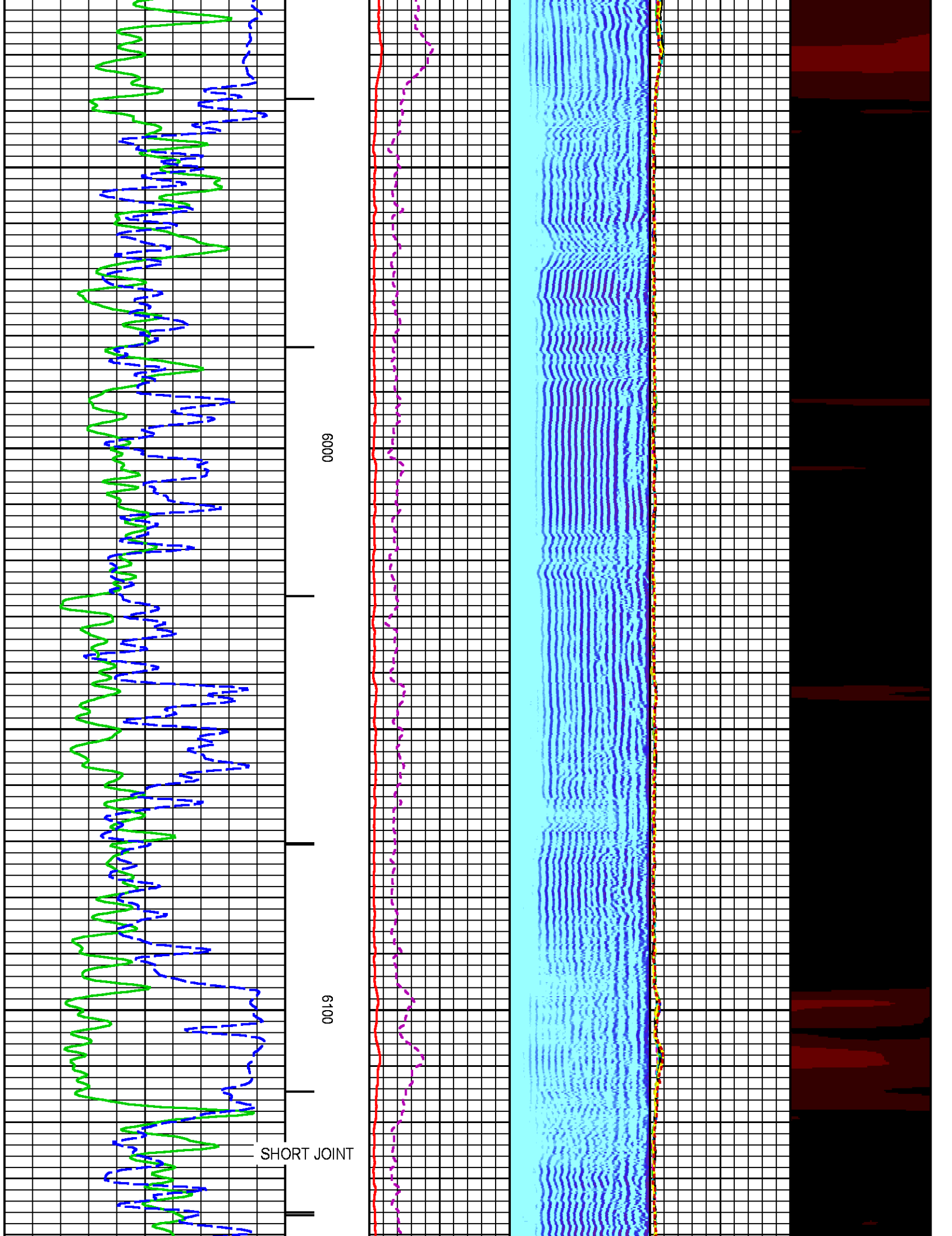


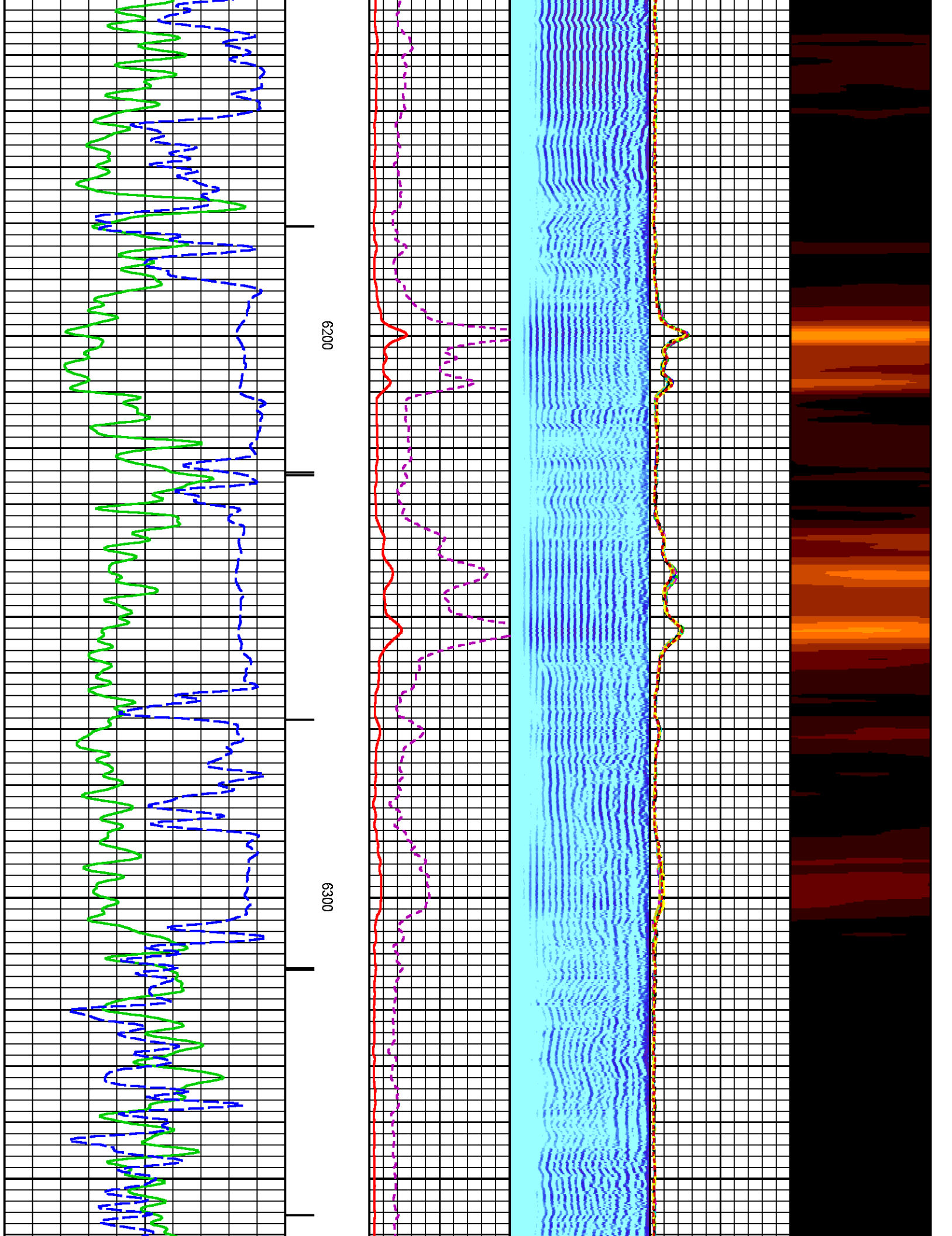


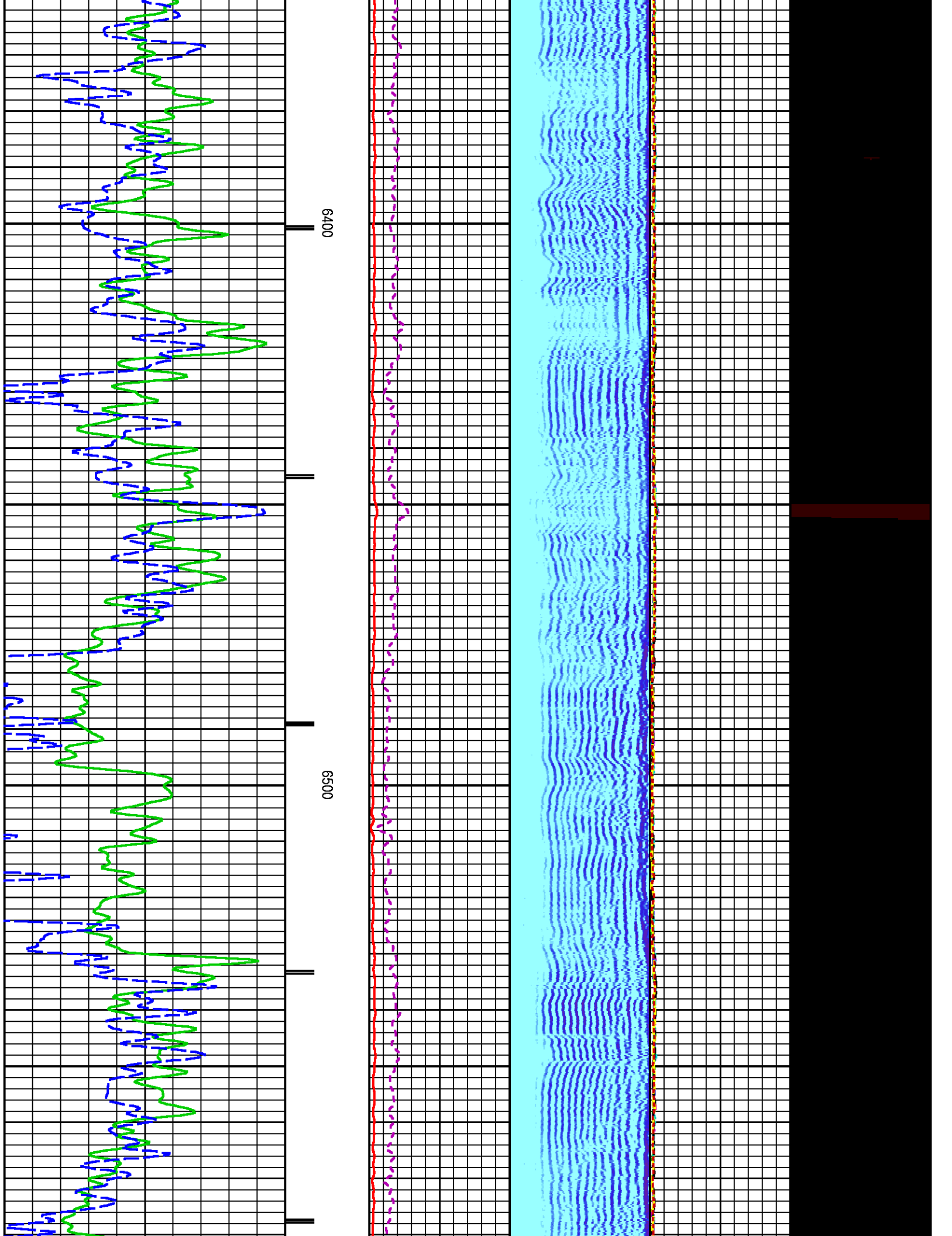


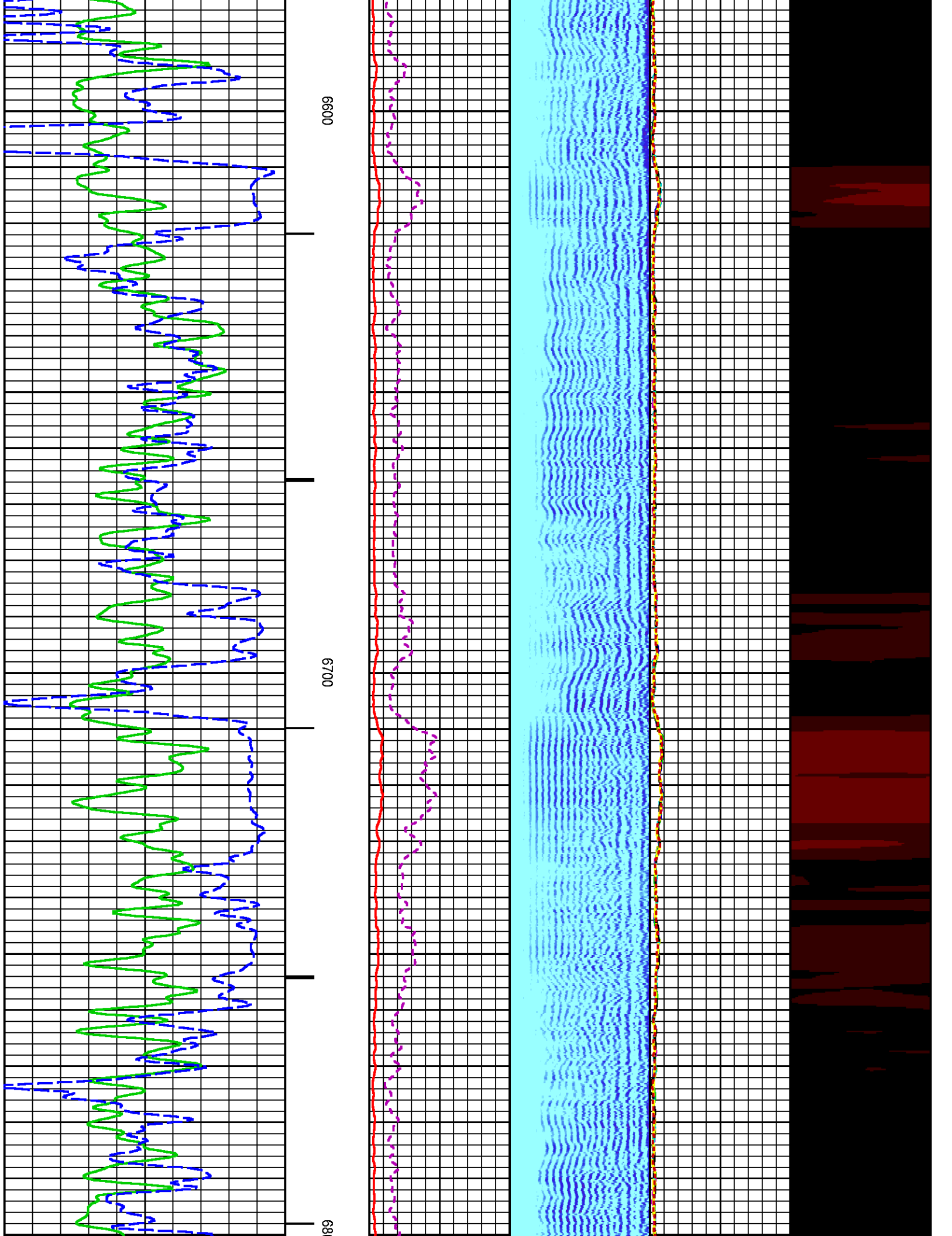


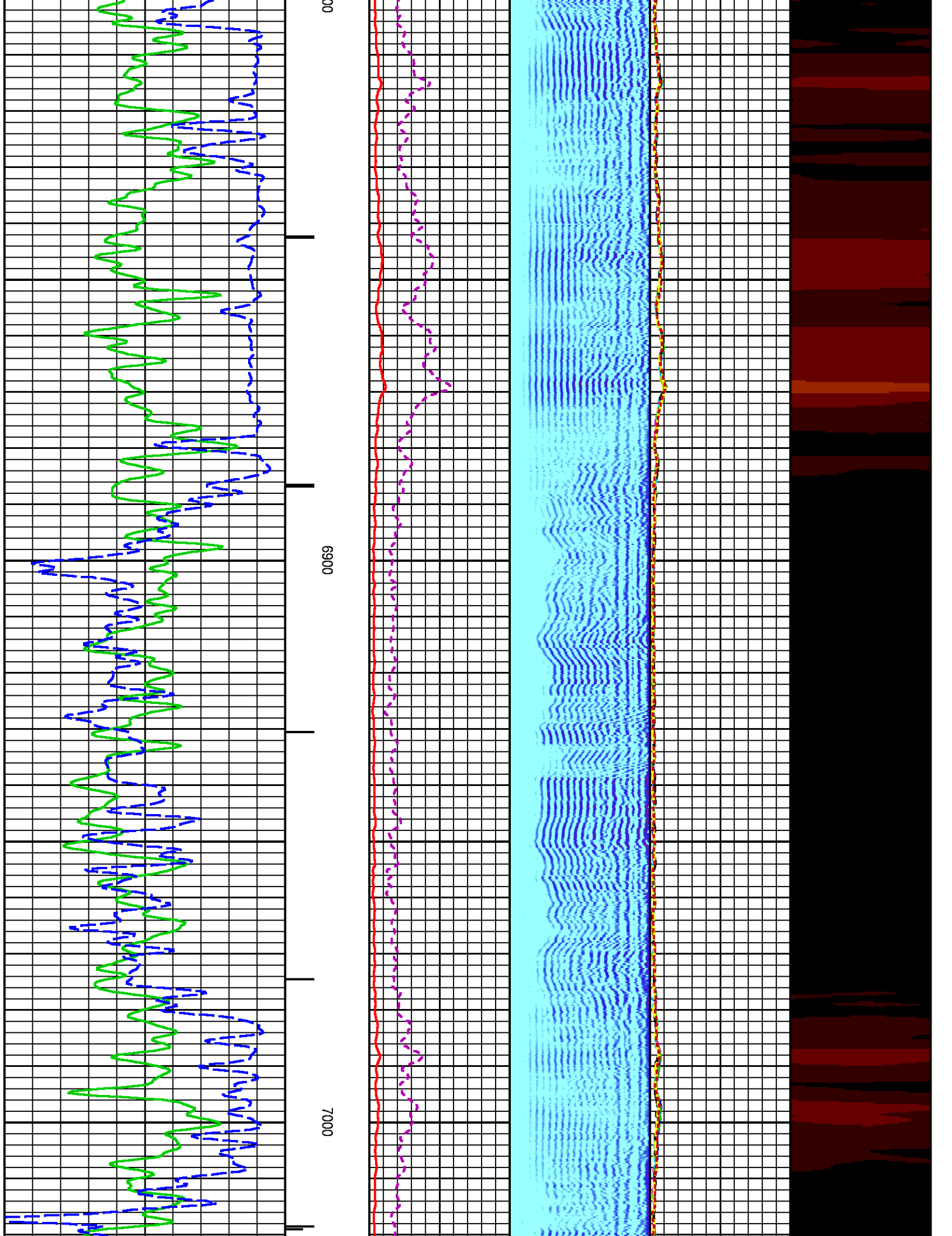


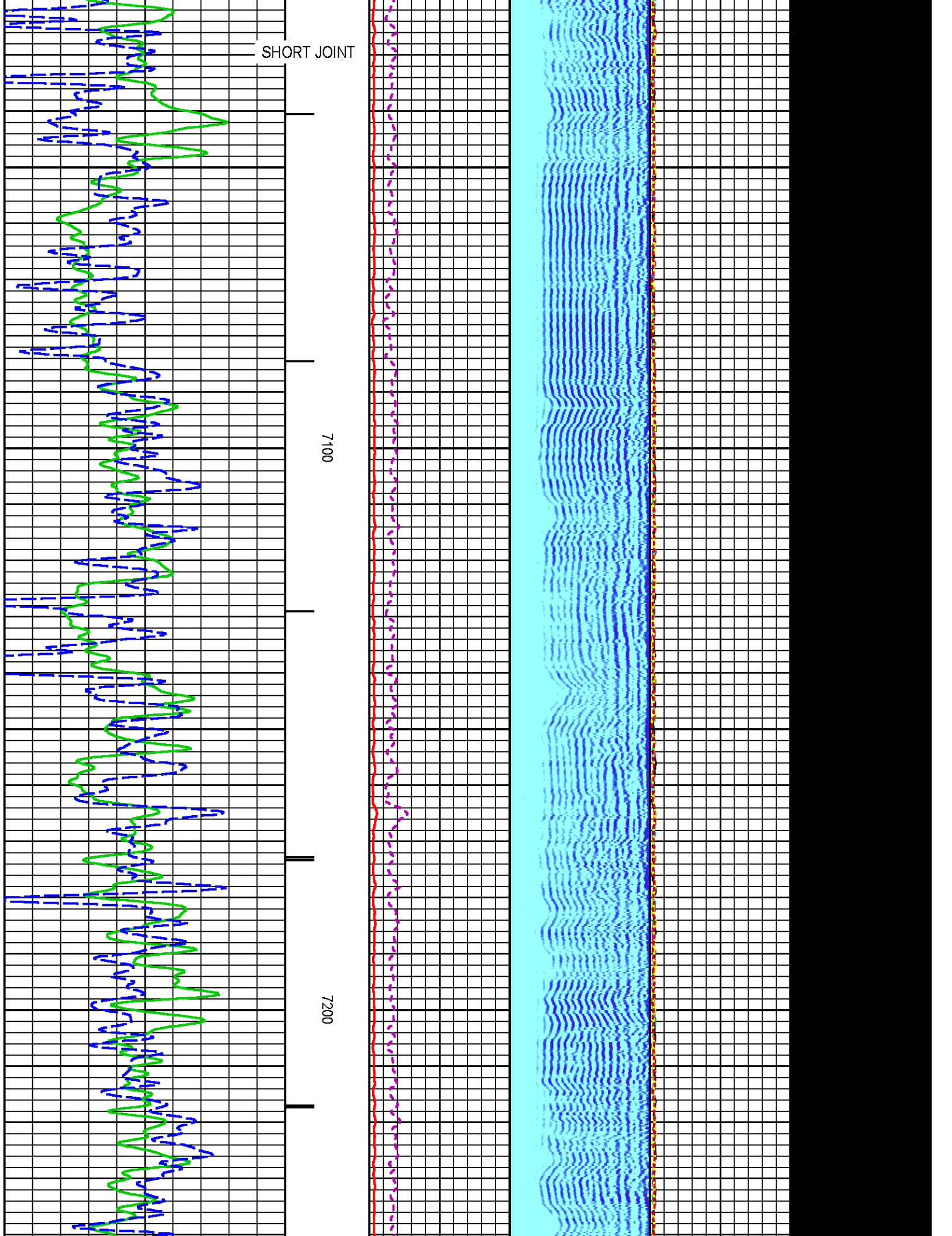


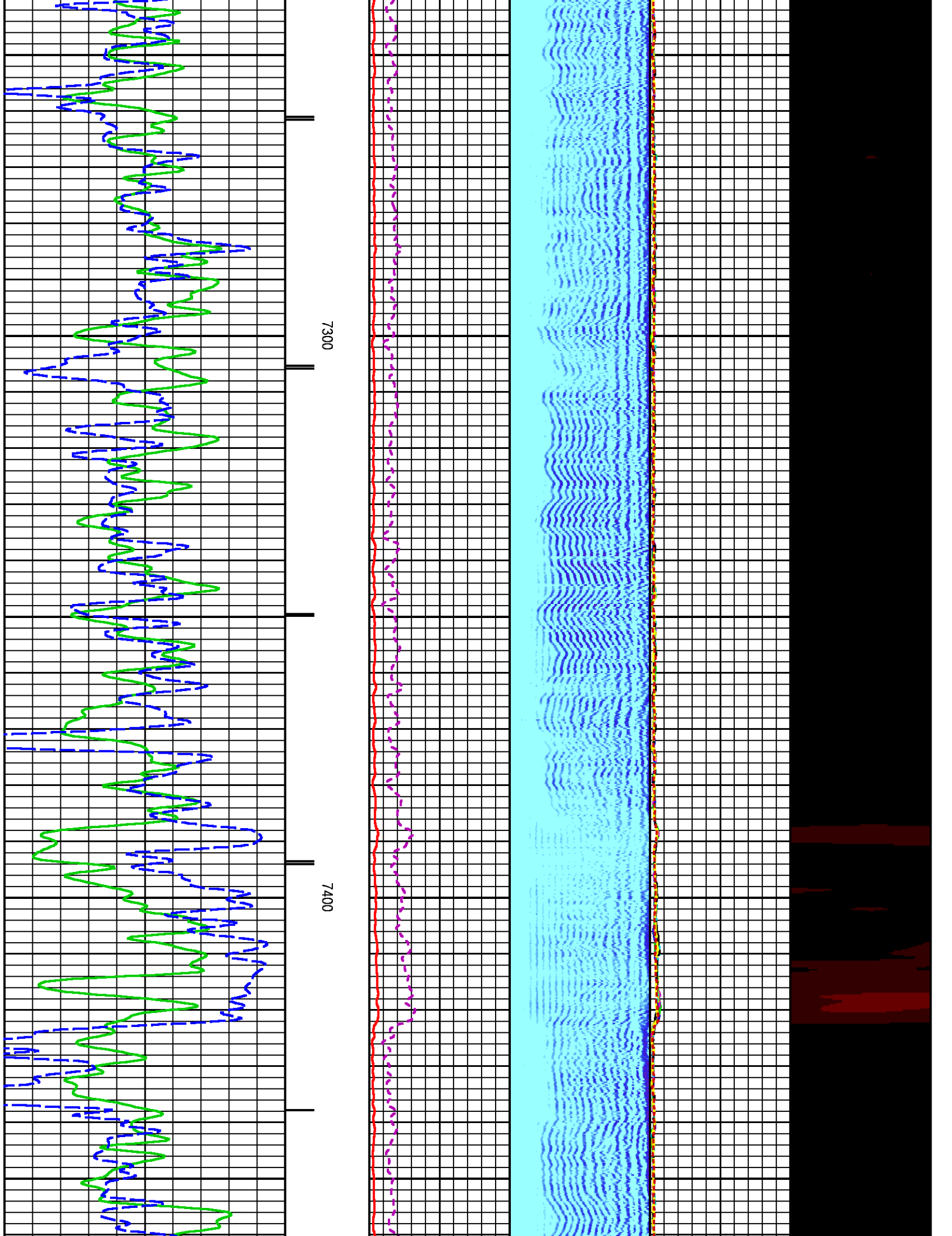


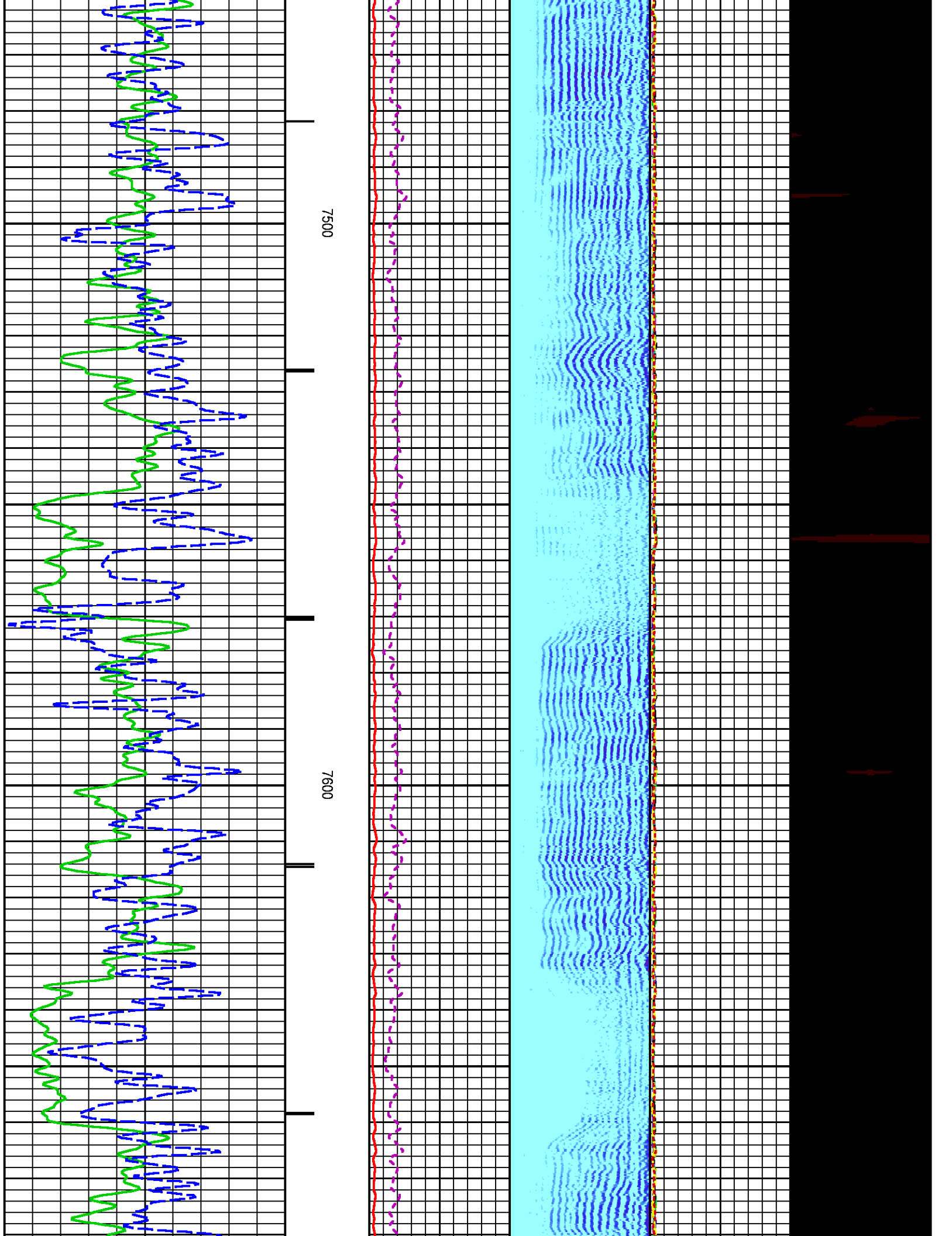


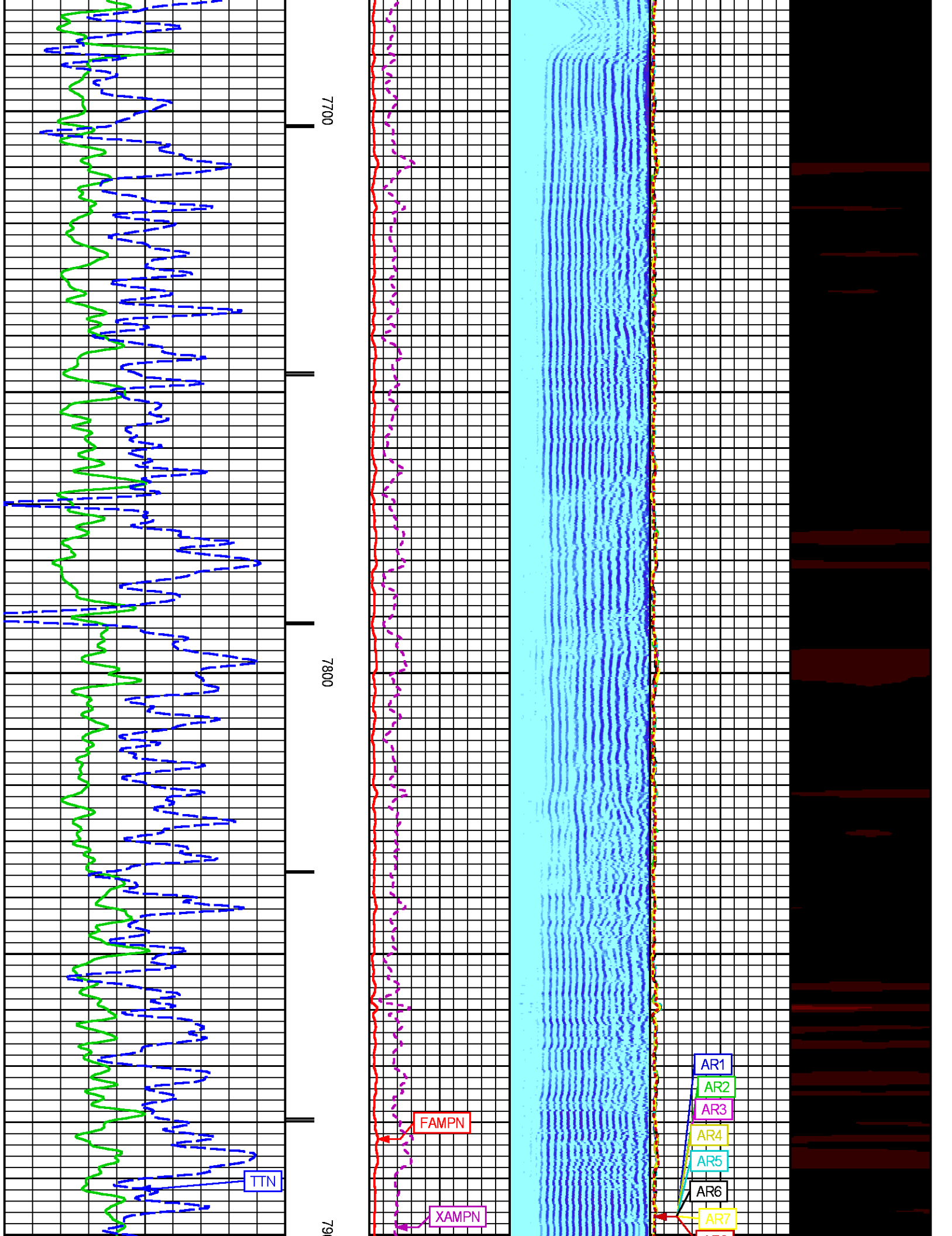


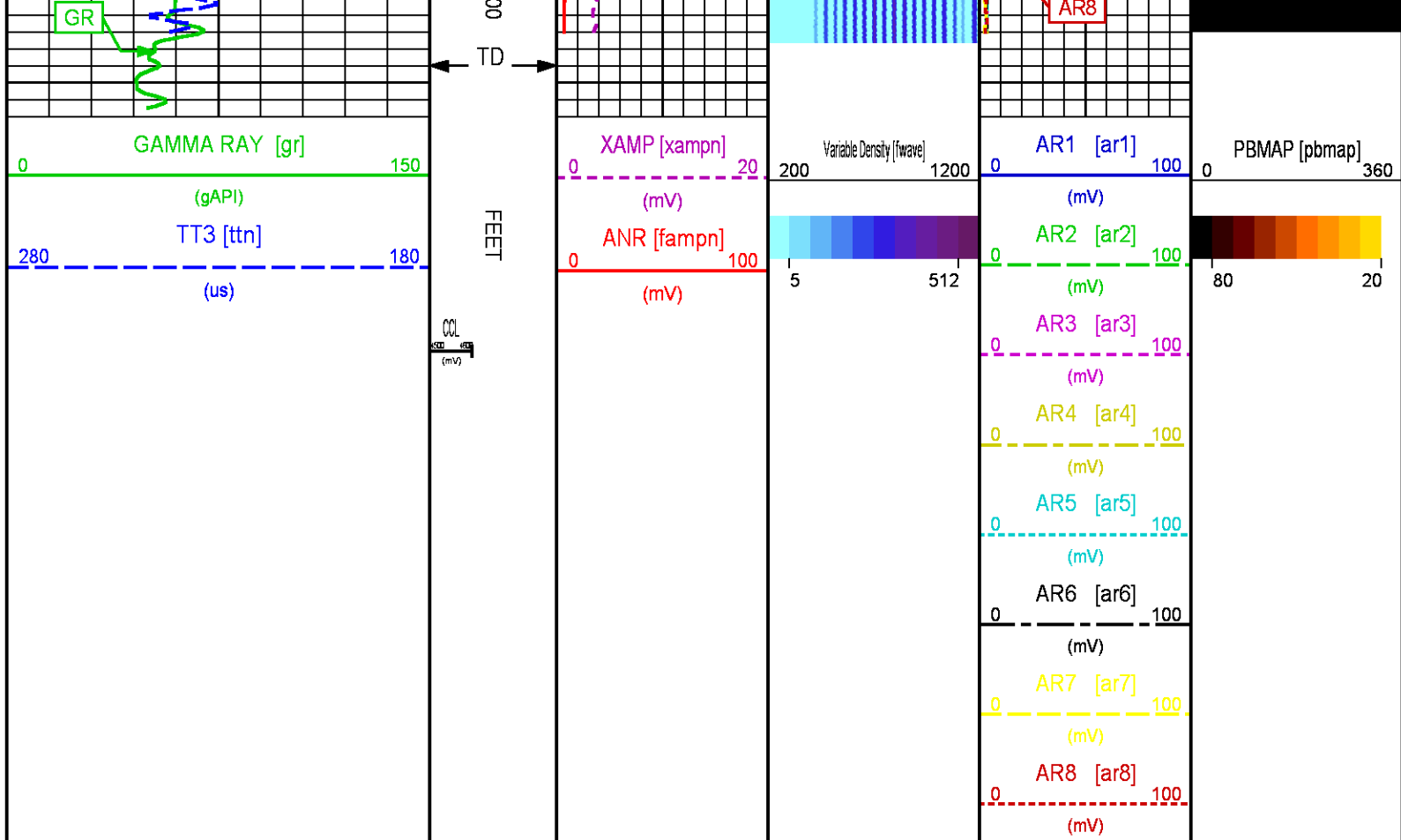












REPEAT PRESENTATION 0 PSI

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

Updates: 1 Patches: 6

Plotted: Sun Apr 12 08:50:50 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH095880/n012g01.prm
 LOGGING MODE: DEPTH 7664.250 ft DIRECTION: UP
 TOP DEPTH: 7664.250 ft BOTTOM DEPTH: 7921.788 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 (fap1*)	187	us	TOP BOTTOM

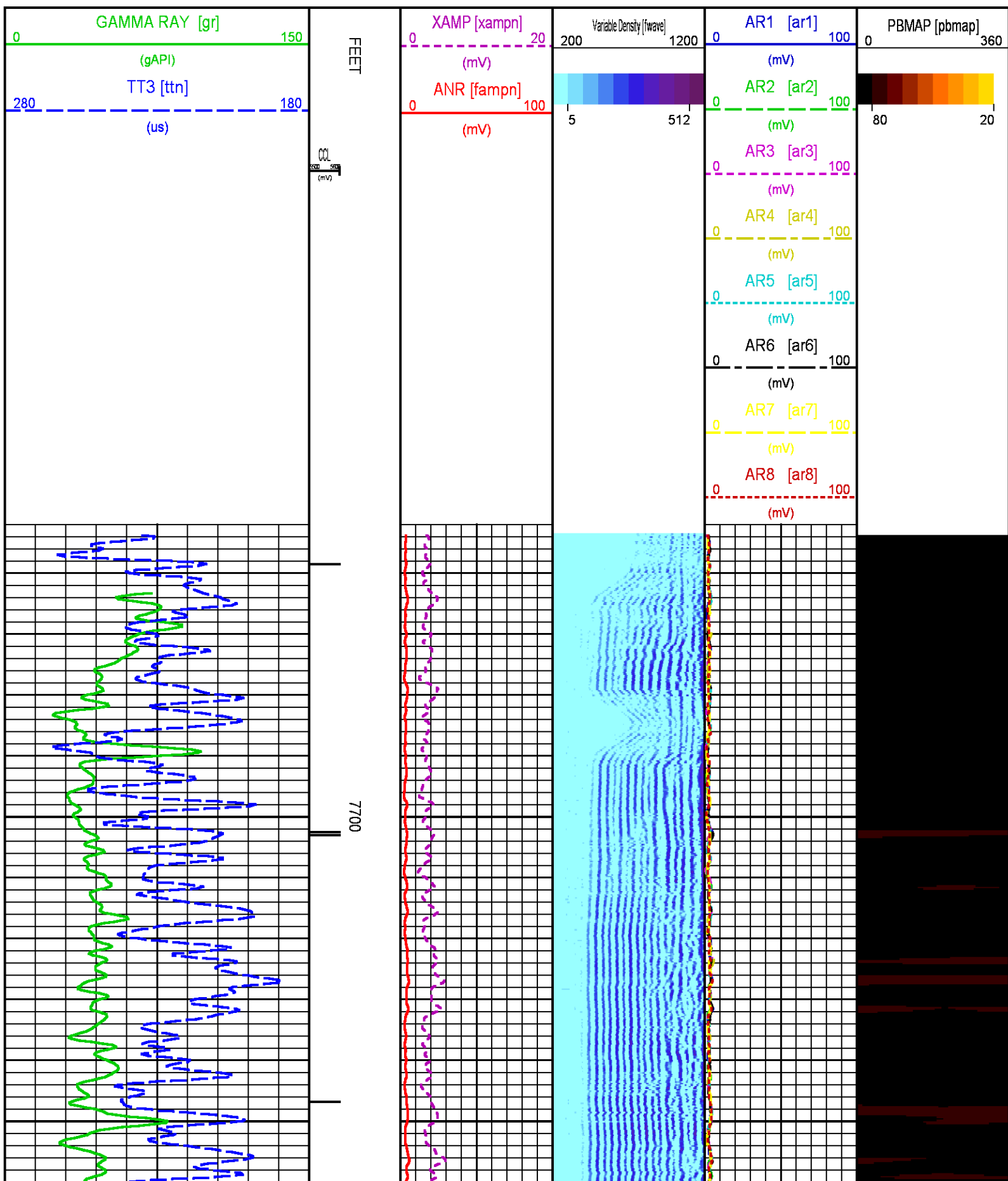
	AMP WINDOW START (fgp2*)	187	us	"	"
	AMP WINDOW START (fgp3*)	187	us	"	"
	AMP WINDOW START (fgp4*)	187	us	"	"
	AMP WINDOW START (fgp5*)	187	us	"	"
	AMP WINDOW START (fgp6*)	187	us	"	"
	AMP WINDOW START (fgp7*)	187	us	"	"
	AMP WINDOW START (fgp8*)	187	us	"	"
	AMP WINDOW START (fgpn*)	187	us	"	"
	AMP WINDOW LENGTH	25	us	"	"
	TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	171	us	"
RAL CASING PARAMETERS	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
	PPT NEAR	200.391	us	"	"
	TOOL DELAY (str1*)	-66	us	"	"
	TOOL DELAY (str2*)	-66	us	"	"
	TOOL DELAY (str3*)	-66	us	"	"
	TOOL DELAY (str4*)	-66	us	"	"
	TOOL DELAY (str5*)	-66	us	"	"
	TOOL DELAY (str6*)	-66	us	"	"
	TOOL DELAY (str7*)	-66	us	"	"
BASELINE NOISE (NEAR)	TOOL DELAY (str8*)	-66	us	"	"
	TOOL DELAY (strn*)	-66	us	"	"
	NOISE WINDOW START	131	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

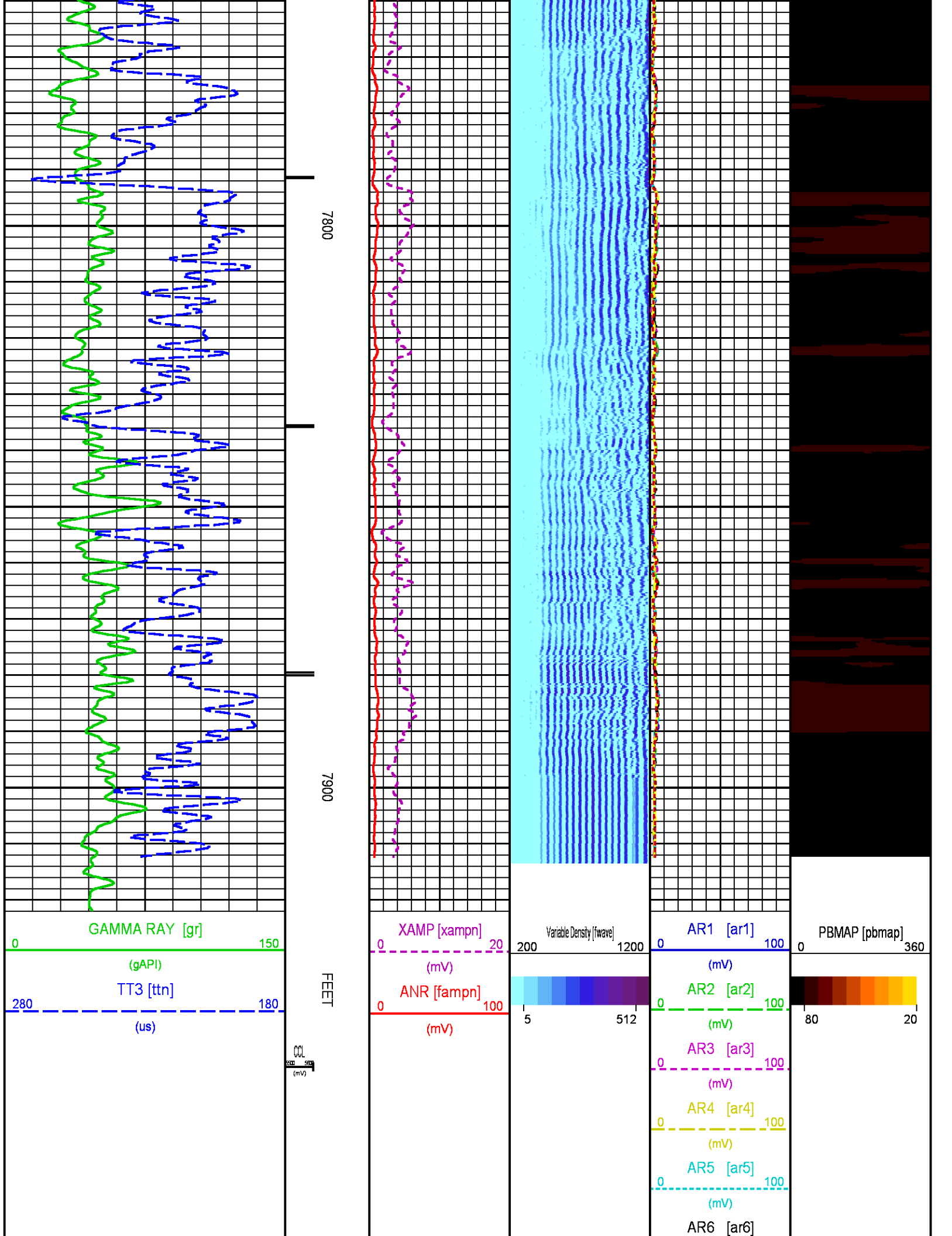
PERCENT BOND CEMENT MAP					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"
	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"
	FREE AMP REC 5	80	mV	"	"
	FREE AMP REC 6	80	mV	"	"
	FREE AMP REC 7	80	mV	"	"
	FREE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

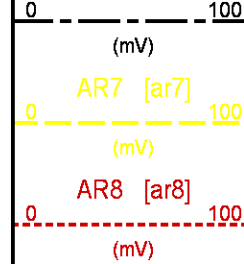
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Apr 12 07:51:31 2015	FIXED GATE AMPLITUDE T-R1
F1:AR2	Apr 12 07:51:31 2015	FIXED GATE AMPLITUDE T-R2
F1:AR3	Apr 12 07:51:31 2015	FIXED GATE AMPLITUDE T-R3
F1:AR4	Apr 12 07:51:31 2015	FIXED GATE AMPLITUDE T-R4
F1:AR5	Apr 12 07:51:31 2015	FIXED GATE AMPLITUDE T-R5
F1:AR6	Apr 12 07:51:31 2015	FIXED GATE AMPLITUDE T-R6
F1:AR7	Apr 12 07:51:31 2015	FIXED GATE AMPLITUDE T-R7
F1:AR8	Apr 12 07:51:31 2015	FIXED GATE AMPLITUDE T-R8
F1:CCL	Apr 12 07:51:31 2015	CASING COLLAR LOCATOR
F1:FAMPN	Apr 12 07:51:31 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Apr 12 07:51:31 2015	FAR WAVE FORM
F1:GR	Apr 12 07:51:31 2015	GAMMA RAY
F1:PBMAP	Apr 12 07:51:31 2015	PERCENT BOND CEMENT MAP
F1:TTN	Apr 12 07:51:31 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Apr 12 07:51:31 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		

Plot Interval : 7655.5 - 7925.5 Feet
Data File 1 : F1 : cas6685:/dat1a/CH095880/CBL_REPEAT_11W.xtf
Created On : Apr 12 07:51:31 2015
Company : LARAMIE ENERGY
Well : PICEANCE 28-11W
Field : VEGA
File Interval : 7652.5 - 7924.75 Feet
OCT : n012g







CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH095880/n012g.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10218496

DATE/TIME PERFORMED: Thu Apr 9 07:43:12 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)	0.04	0.06	0.05	0.05	0.03	0.10	0.06	0.03	0.08	0.50	0.04
AMP FLUID (mV)	62	63	63	63	62	62	62	62	62	84	62
TT (us)	216	215	215	215	215	216	216	215	216	323	215
M FACTOR	1.60	1.59	1.59	1.59	1.61	1.62	1.61	1.61	1.61	1.80	1.62

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10218496

DATE/TIME PERFORMED: Sun Apr 12 07:19:56 2015

DAYS SINCE CAL: 2

UNIT #: 3885TC 6685

CABLE #: 6685lg 53420c1

	NEAR (mV)	R1 (mV)	R2 (mV)	R3 (mV)	R4 (mV)	R5 (mV)	R6 (mV)	R7 (mV)	R8 (mV)	FAR (mV)	CAL (mV)
ZERO	0.03	0.03	0.03	0.11	0.08	0.08	0.08	0.03	0.08	0.09	0.08
AMP AIR	3.18	1.34	1.67	1.32	1.81	1.66	1.85	1.62	1.49	2.55	100.03

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
1.62	0.00	1.00

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 11871506

DATE/TIME PERFORMED: Wed Apr 1 14:38:54 2015

UNIT #: 3885TC 6685

CALB JIG #: 4702NK WA-612

	BACKGROUND (cts)	CALBTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBTR ON (gAPI)	CALBTR (gAPI)
GR	81.73	371.60	289.9	0.638	52.16	237.16	185

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1355XA 11871506

DATE/TIME PERFORMED: Wed Apr 1 14:40:00 2015

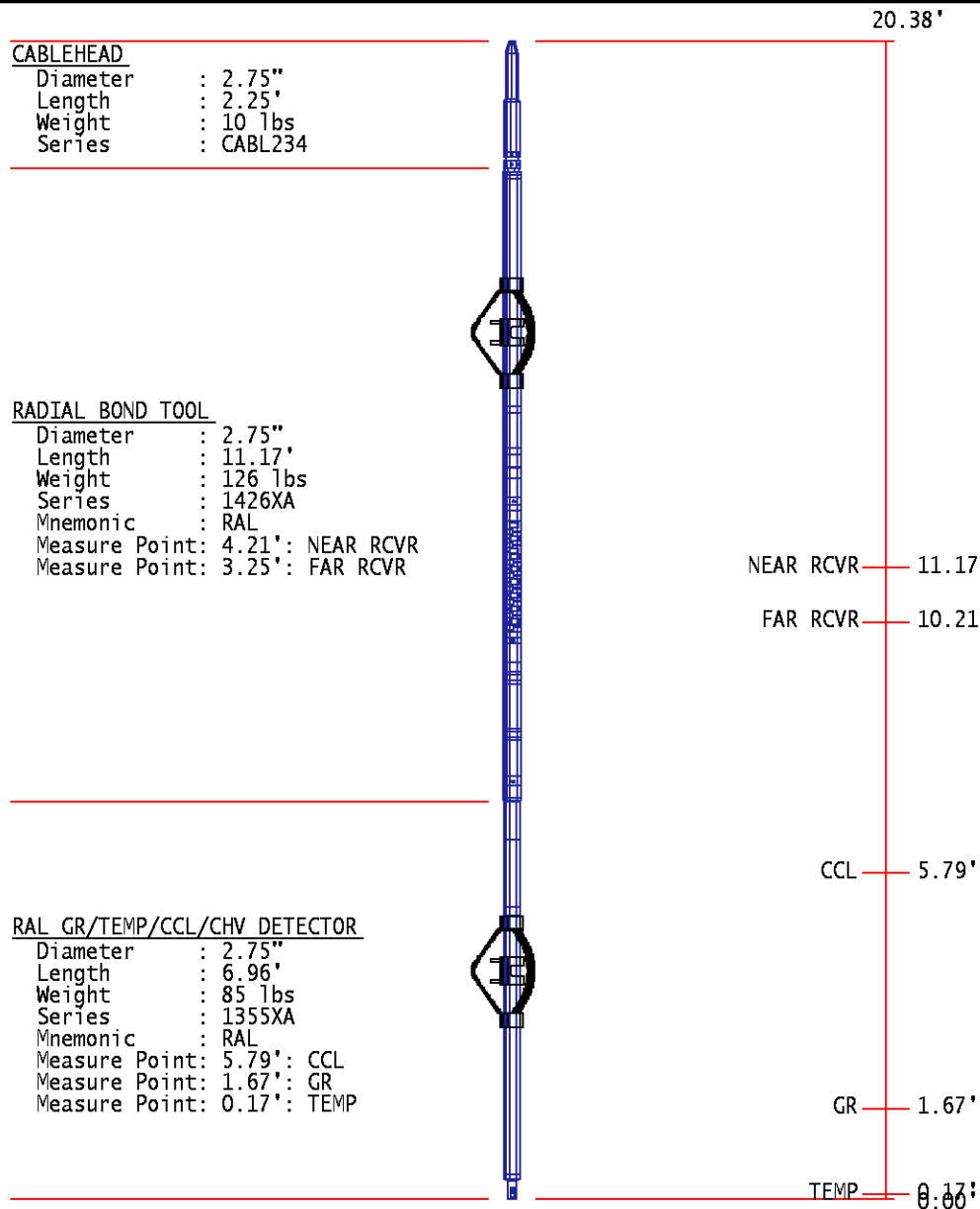
UNIT #: 3885TC 6685

VERI JIG #: 4702NK WA-612


	BACKGROUND (cts)	CALBRTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	85.92	377.20	0.638	54.83	240.74	185.91
						175.00 195.00

INSTRUMENT CONFIGURATION

Source File: /dat1a/CH095880/CBL-tdg



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

	COMPANY	LARAMIE ENERGY		FILE NO:	
	WELL	PICEANCE 28-11W		CH095880	
	FIELD	VEGA		API NO:	
	COUNTY	MESA	STATE	COLORADO	05077102200000
LOCATION:		ELEVATIONS:		SEC 28 T9S R93W	
SHL: 2515' FSL 1608' FWL		KB 7602 FT		PAD 28-11	
BHL: 2627' FSL 878' FWL		DF		PATTERSON 306	
GL 7580 FT		DATE		12-Apr-2015	
SEC 28 TWP 9S RGE 93W					