



FILE NO: CH131323	COMPANY LARAMIE ENERGY LLC
API NO: 05077093060000	WELL HG FED 35-01W
	FIELD ALKALI CREEK
	COUNTY MESA STATE COLORADO

Version	LOCATION: LAT: 39.32834 N LONG: 107.63516 W SEC <u>26</u> TWP <u>8S</u> RGE <u>92W</u>	OTHER SERVICES RAL
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PERMANENT DATUM	GL	ELEVATION	7985 FT	ELEVATIONS: KB 7999 FT DF GL 7985 FT
LOG MEASURED FROM	KB	14 FT	ABOVE P.D.	
DRILL. MEAS. FROM	KB			

DATE	TRIP	10-May-2018	1
RUN	1	US131323	
SERVICE ORDER		8594 FT	
DEPTH DRILLER		8519 FT	
DEPTH LOGGER		8519 FT	
BOTTOM LOGGED INTERVAL		2924 FT	
TOP LOGGED INTERVAL		12:30	
TIME STARTED		18:00	
TIME FINISHED		7.5 HOURS	
OPERATOR RIG TIME		WATER	
TYPE OF FLUID IN HOLE		NA	
FLUID DENSITY		NA	
FLUID SALINITY		54 FT	
FLUID LEVEL		7270 FT	
LOGGED CEMENT TOP		0 PSI	
WELLHEAD PRESSURE		NA	
MAXIMUM HOLE DEVIATION		10 FMN	
NOMINAL LOGGING SPEED		243 DEGF	
MAX. RECORDED TEMP.		BAKER HUGHES OPEN HOLE	
REFERENCE LOG		26-Nov-2017	
REFERENCE LOG DATE		ML-4291	GRAND JCT.
EQUIP. NO.	LOCATION	T. NEWELL	
RECORDED BY		NA	
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.

REMARKS

RUN 1 TRIP 1: *2 OPERATIONS IN WELLBORE*

OPERATION 2: RPM/GR/CCL RUN IN PNC-3D MODE

RPM MAIN PASS WAS SPLICED AT 5903'

SJ: 6579' - 6598'

SJ: 7629' - 7649'

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	PCM	8250EA	11902197	FREE
1	1	TEL/CCL	8248ED	10408793	FREE
1	1	GR	2812LA	10274385	FREE
1	1	RPM	8281EA	10294755	FREE
1	1	RPM	8283PA	10066991	FREE
1	1	RPM	8281FA	10066992	FREE
1	1	TEMP	8255XA	166341	FREE

MAIN PASS PNC 3D MODE

ECLIPS 7.0w PC-ECLIPS General Release Rel 7.0w Fri Jun 09 11:02:06 Central Daylight Time 2017
Patches: 2

Plotted: Sat May 12 20:49:50 2018

PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\Users\newetimj\Desktop\HG Federal 35-01WRPM DATA_MAY10_2018\p354h03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 2909.526 ft BOTTOM DEPTH: 5970.331 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)
GR	FILTER ()	medium (1)		TOP BOTTOM

RPM PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)
PNC Parameters	BOREHOLE CONTENTS	FLUID		TOP BOTTOM
	OPEN/CASED HOLE	CASED HOLE		" "
	BOREHOLE SIZE	7.88	in	" "
	LARGEST CASING OD	4.50	in	" "
	MATRIX	SANDSTONE		" "

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	N/A	CASING COLLAR LOCATOR
F1:GR	N/A	GAMMA RAY
F1:ISS	N/A	INELASTIC SHORT SPACE COUNT RATE
F1:LS	N/A	LONG SPACE COUNT RATE
F1:RATO	N/A	SHORT/LONG SPACE COUNT RATE RATIO
F1:RICS	N/A	SHORT SPACE INELASTIC TO CAPTURE COUNT RATE RATIO (ISS/CSS)
F1:SGFC	N/A	BOREHOLE AND DIFFUSION CORRECTED SIGMA
F1:SS	N/A	SHORT SPACE COUNT RATE

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	-25.00	ISS	-12.75	RATO	-12.75	SGFC	-12.75
GR	-22.75	LS	-12.75	RICS	-12.75	SS	-12.75

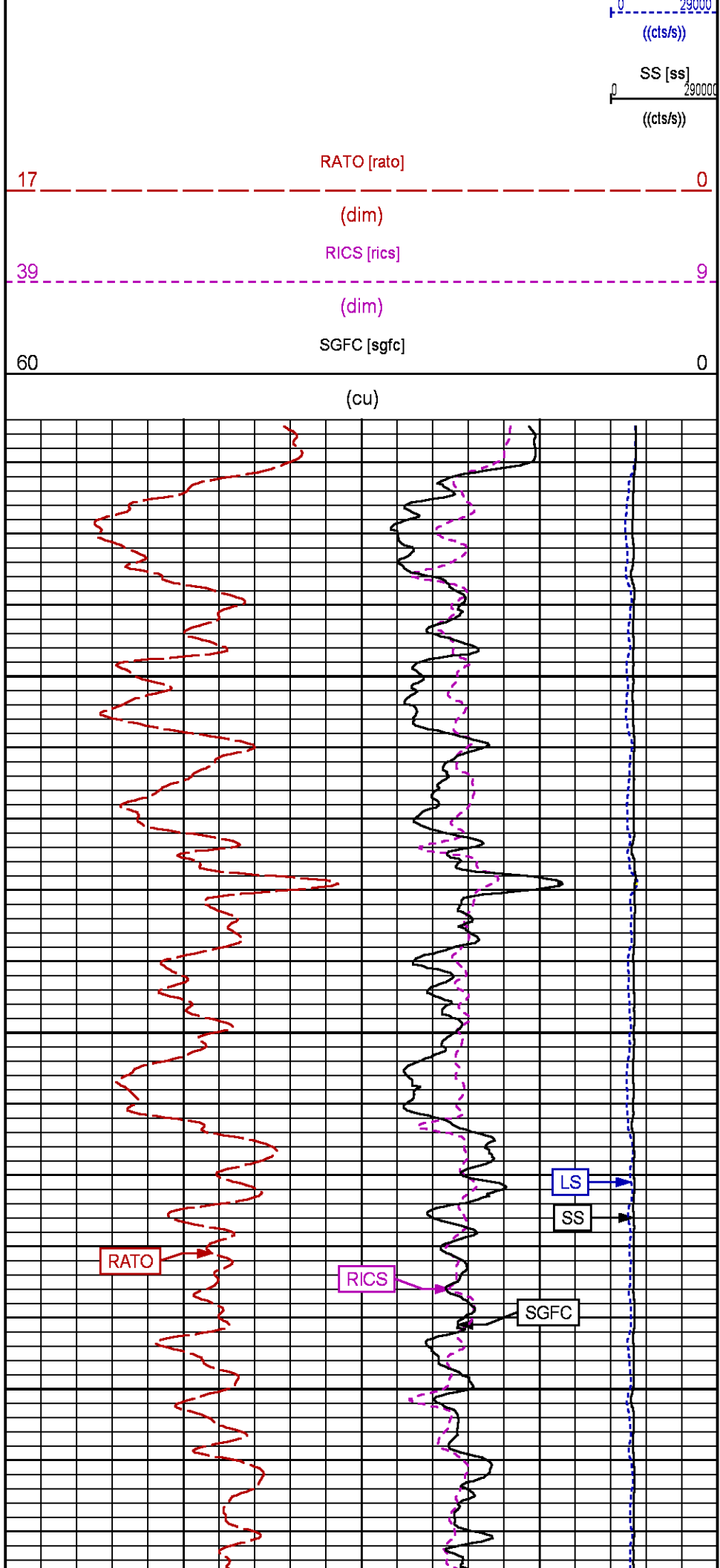
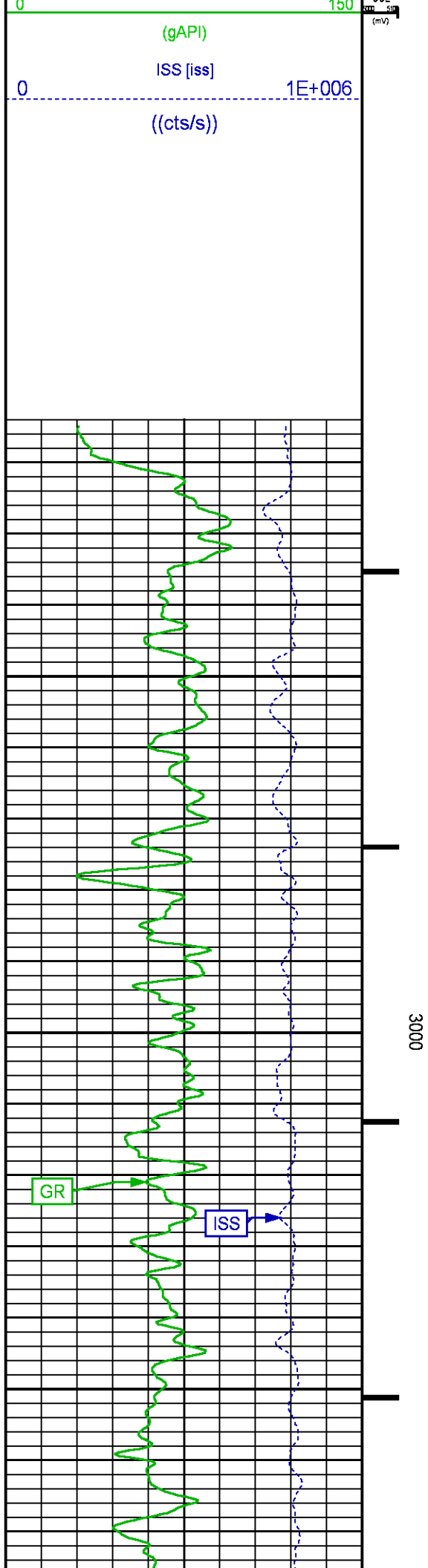
Presentation : BHI4WM4ZW1:C:\Users\newetimj\Desktop\HG Federal 35-01WRPM DATA_MAY10_2018\35-01W_RPM_MAIN.fvpdf [5"/100' Scale]
Plot Interval : 2915 - 8530 Feet
Data File 1 : F1 : BHI4WM4ZW1:C:\Users\newetimj\Desktop\HG Federal 35-01WRPM DATA_MAY10_2018\RPMMMAIN.xtf
Created On : N/A
Company : LARAMIE ENERGY LLC
Well : HG FED 35-01W
Field : ALKALI CREEK
File Interval : 8.75 - 8601.75 Feet
OCT : p354h

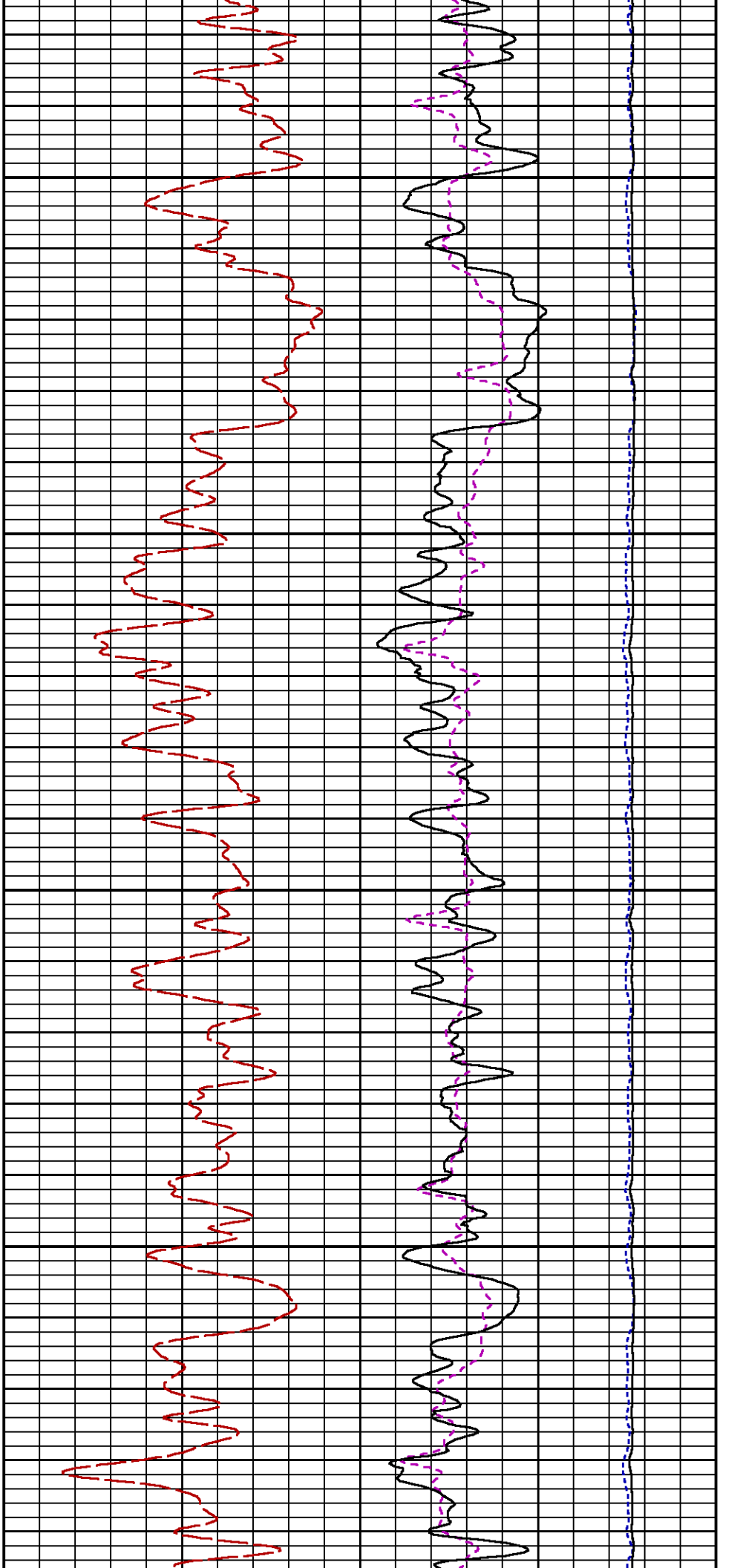
GR BACKUP

GAMMA RAY [gr]

FEET

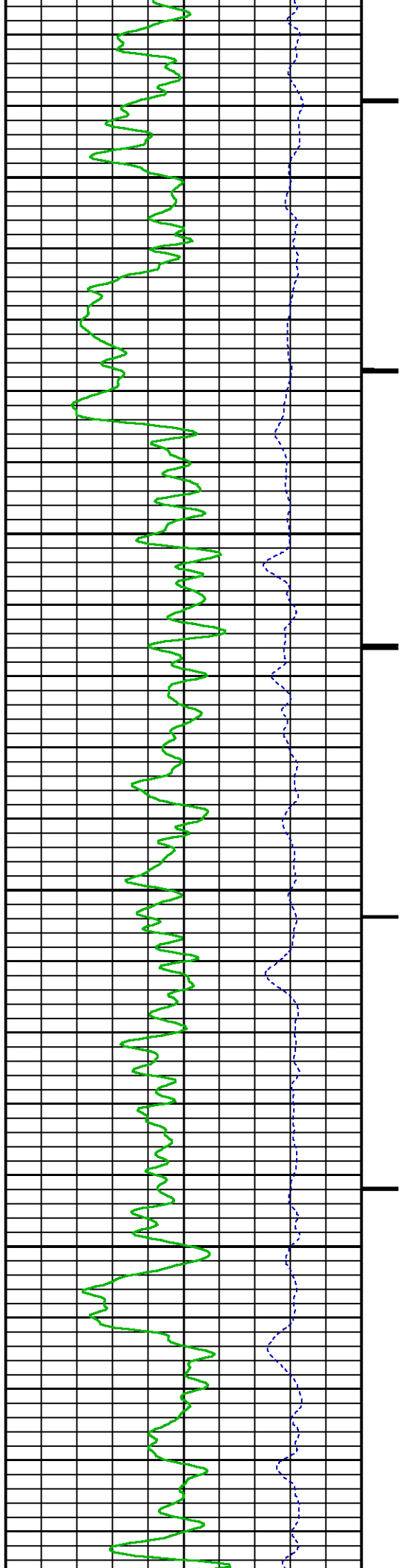
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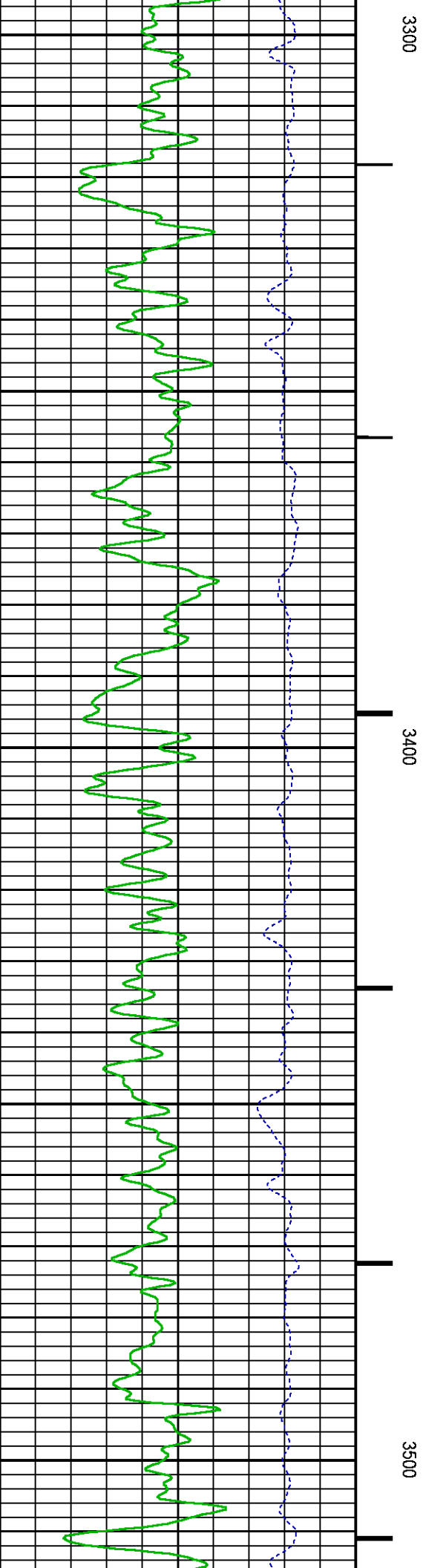
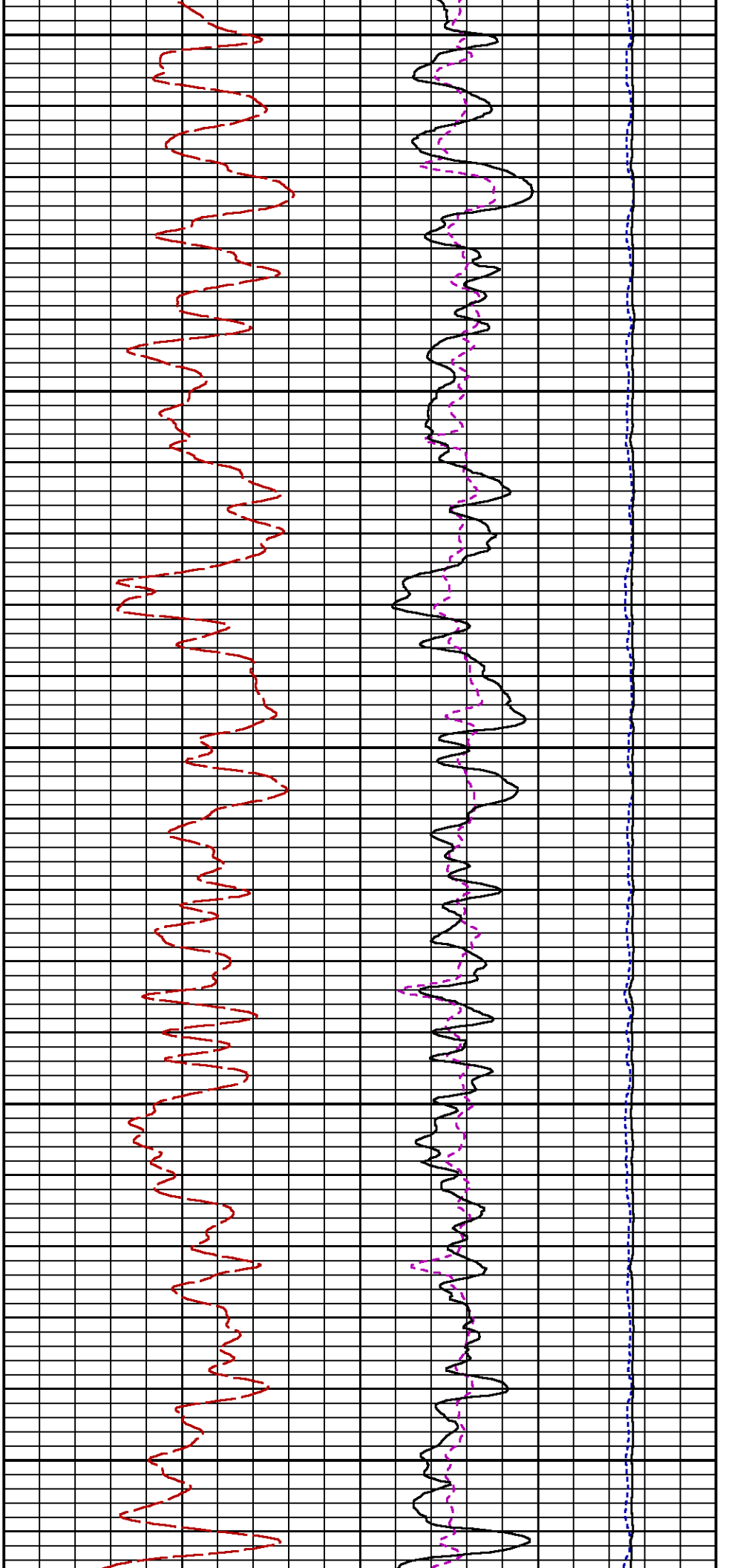


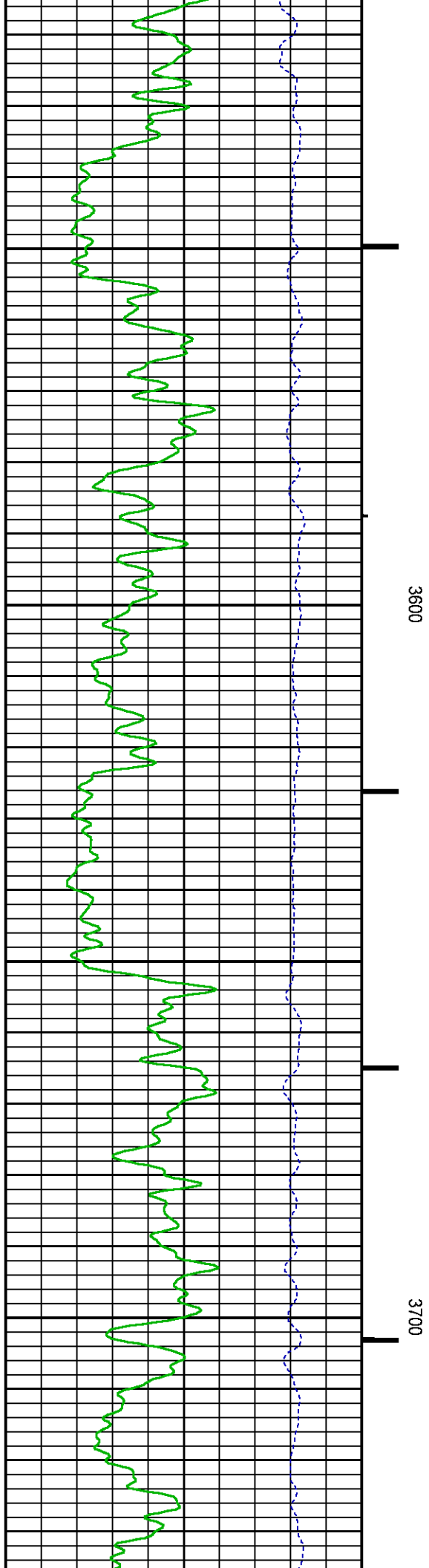
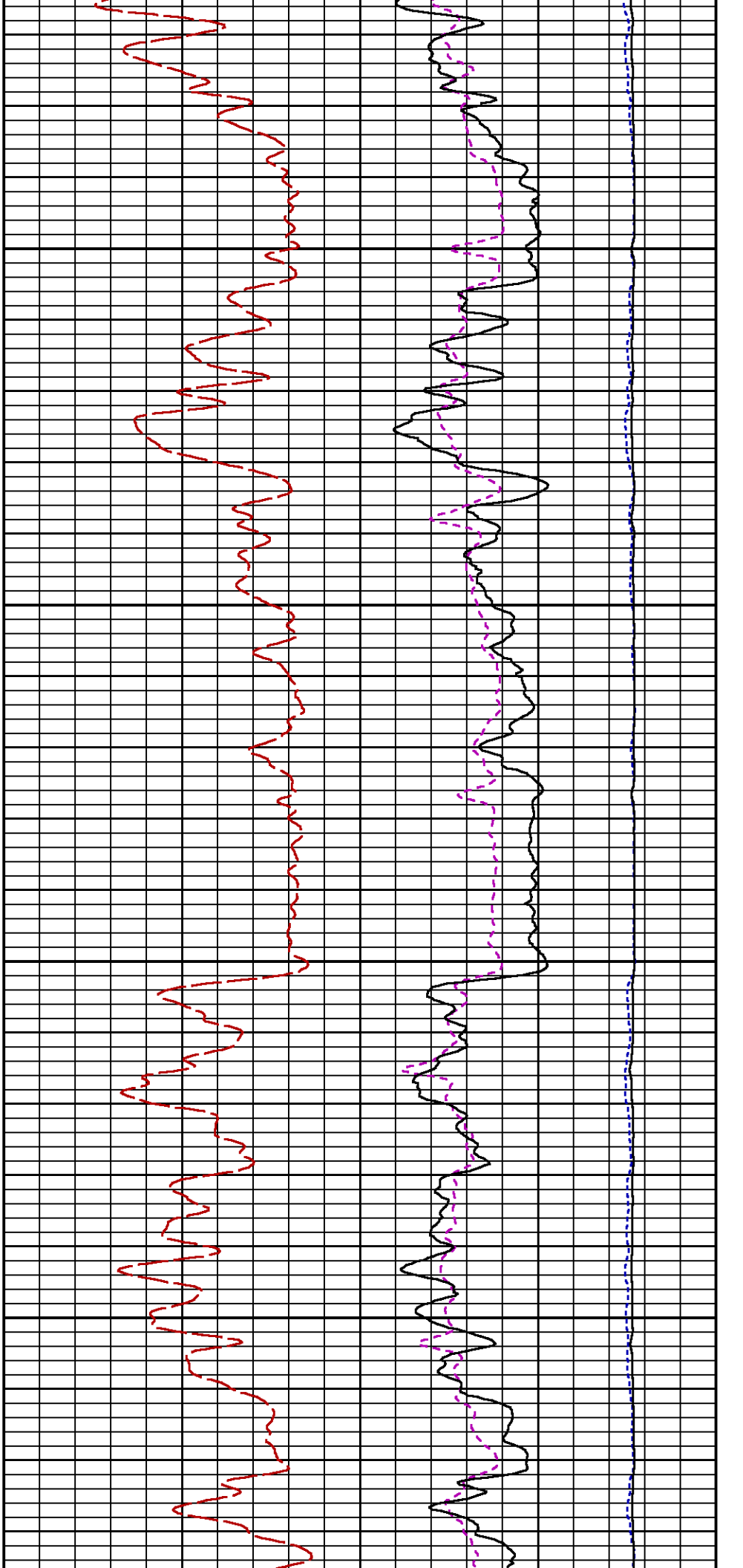


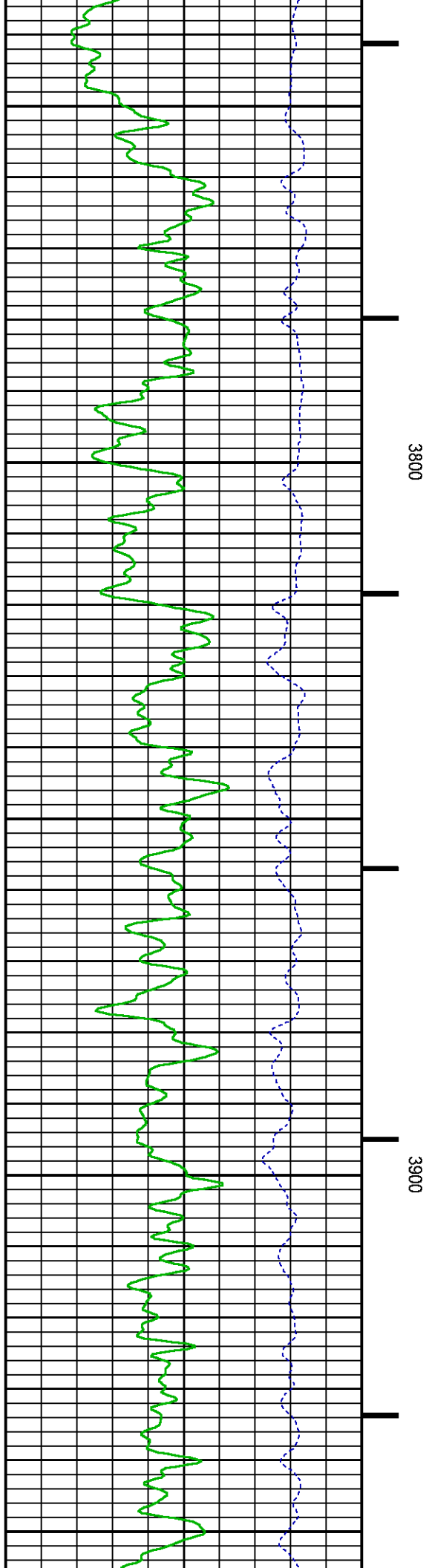
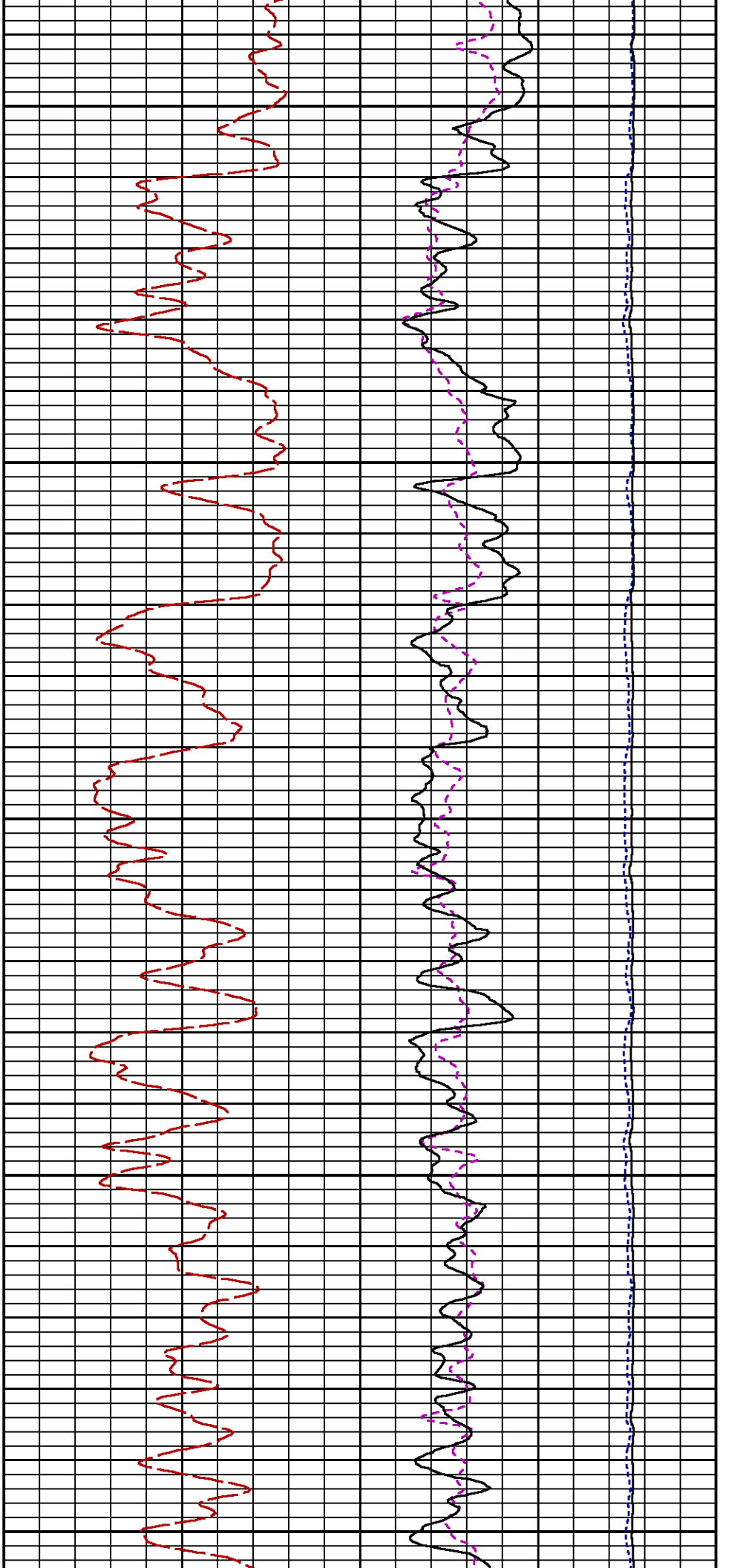
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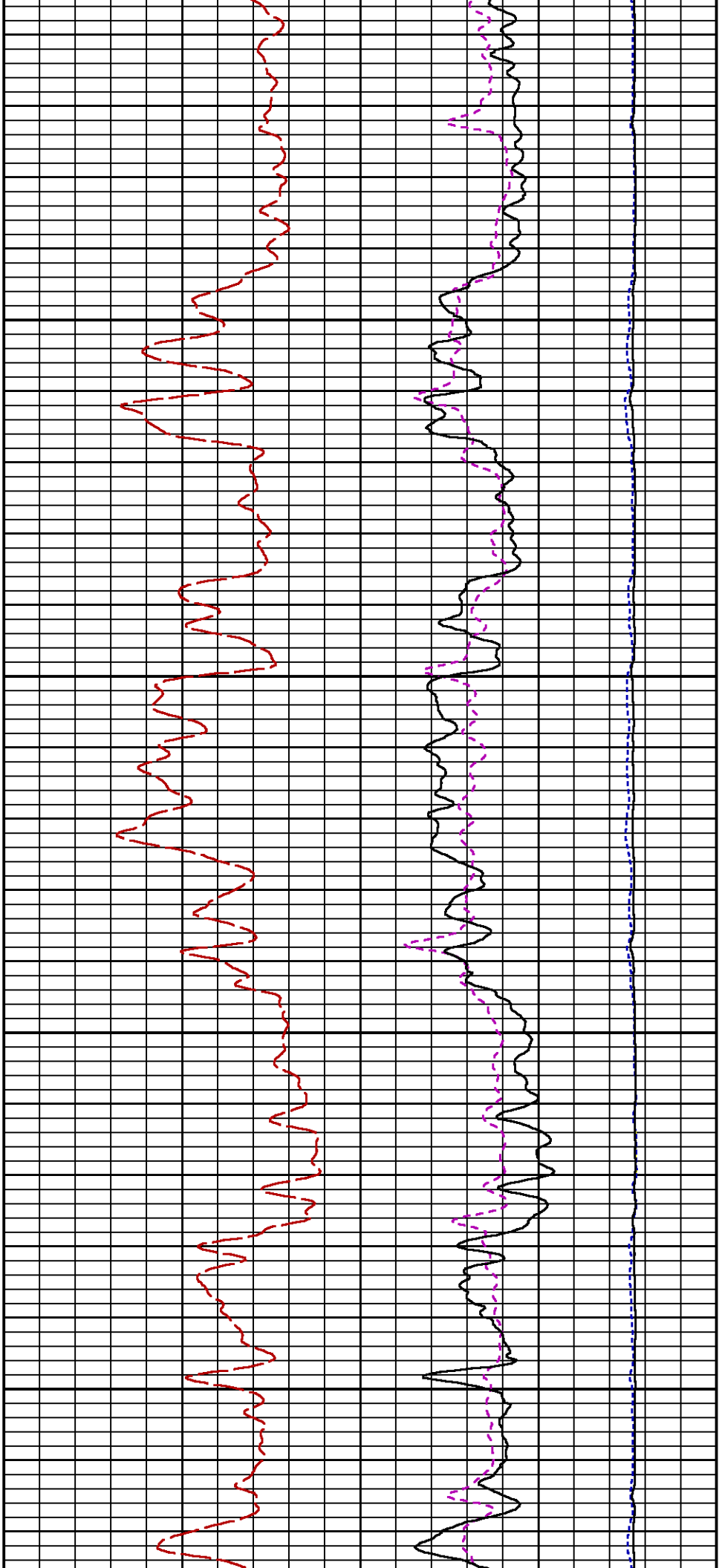
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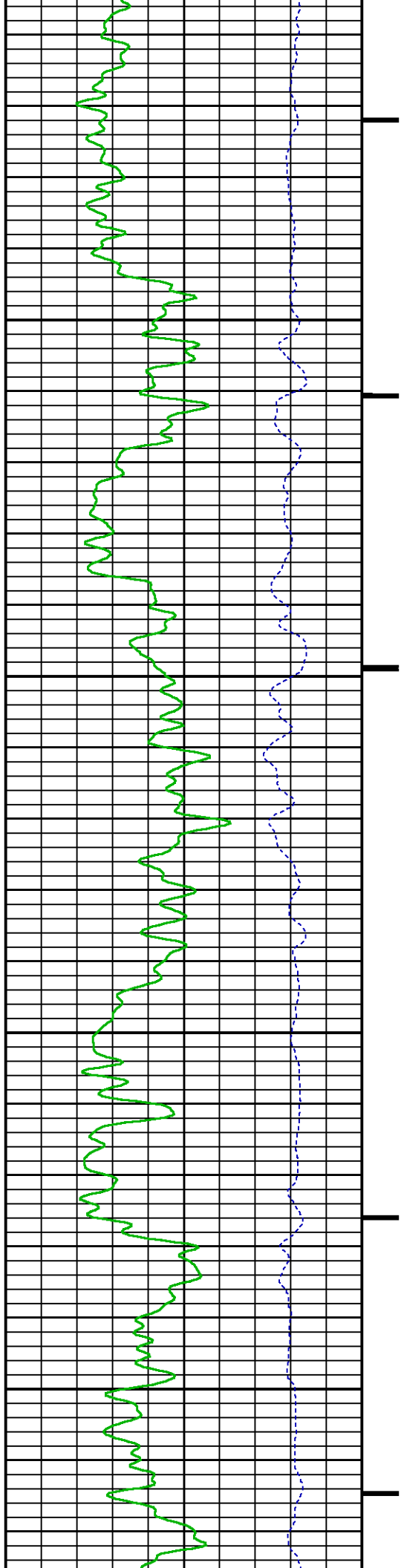


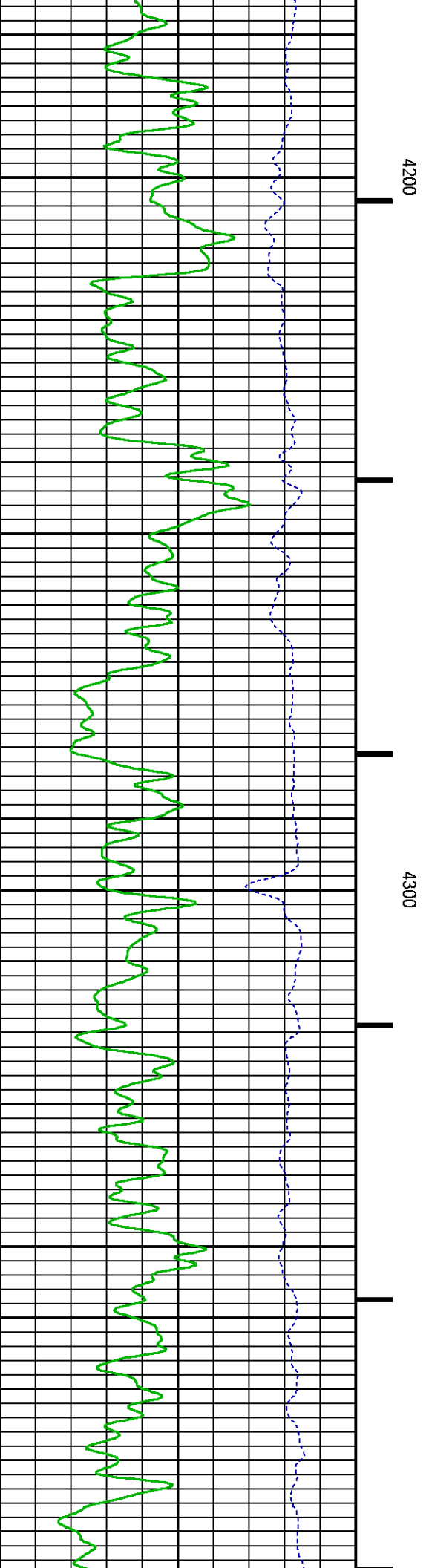
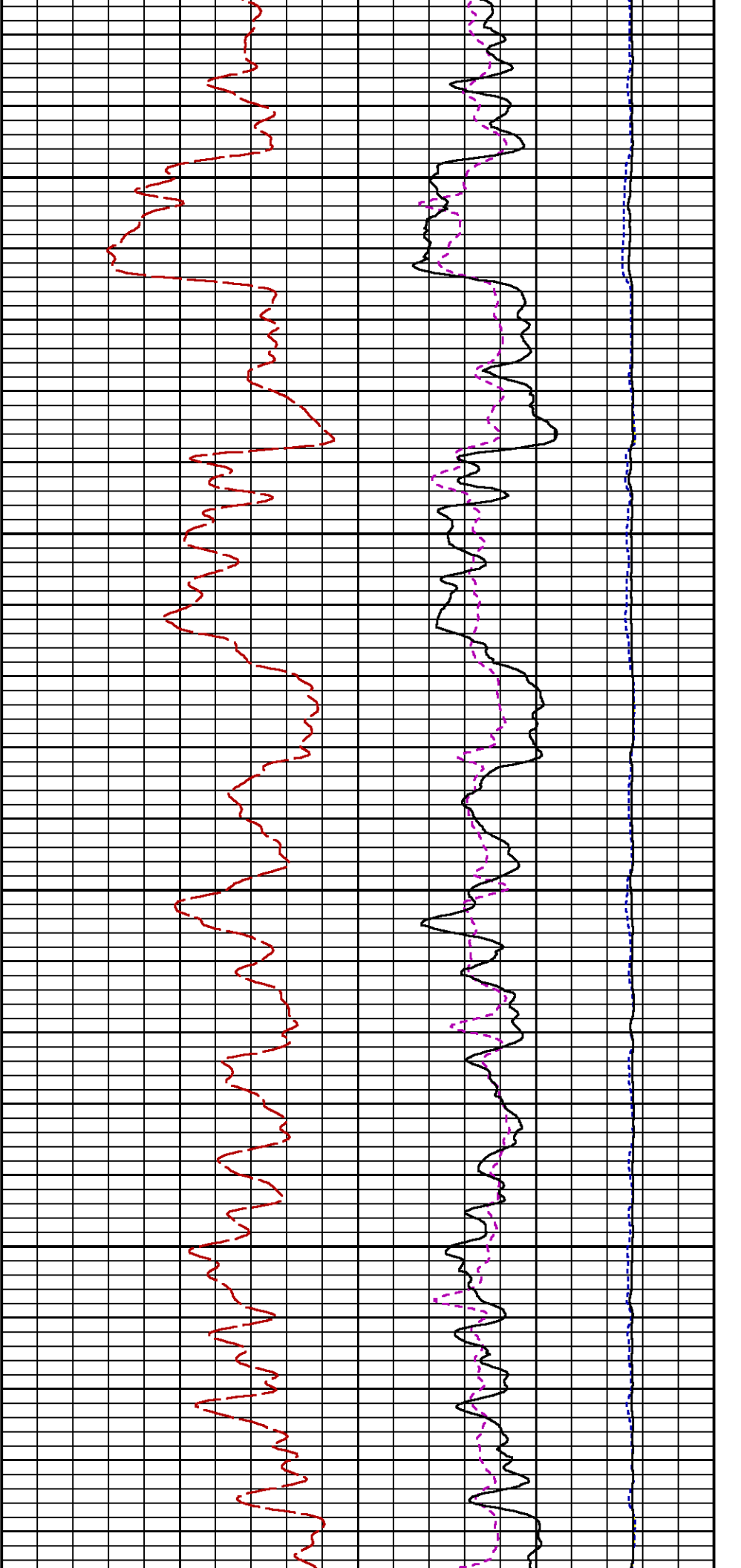


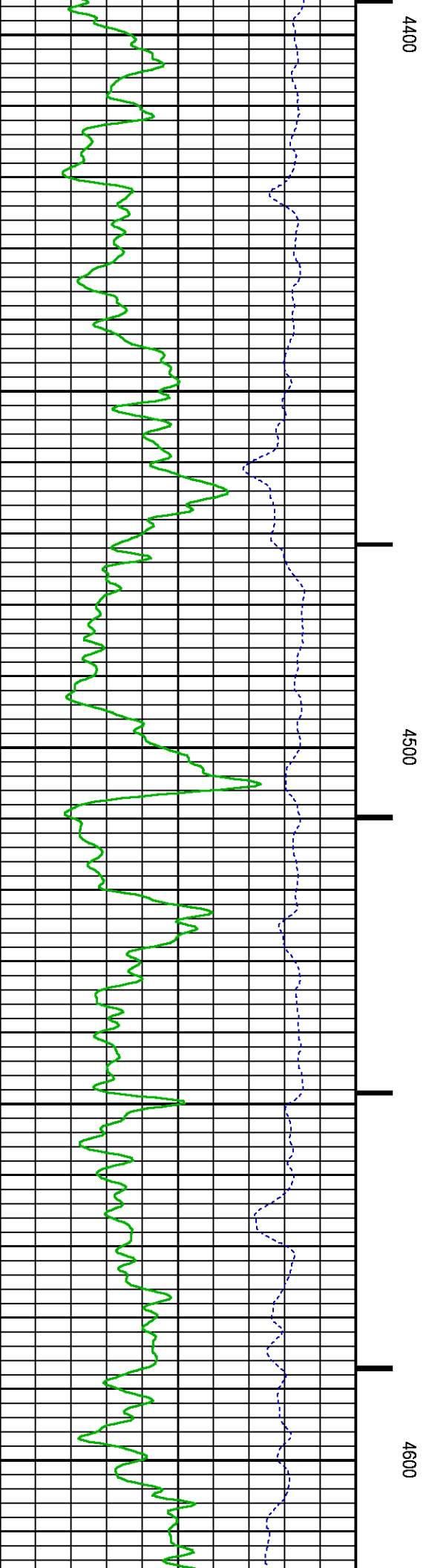
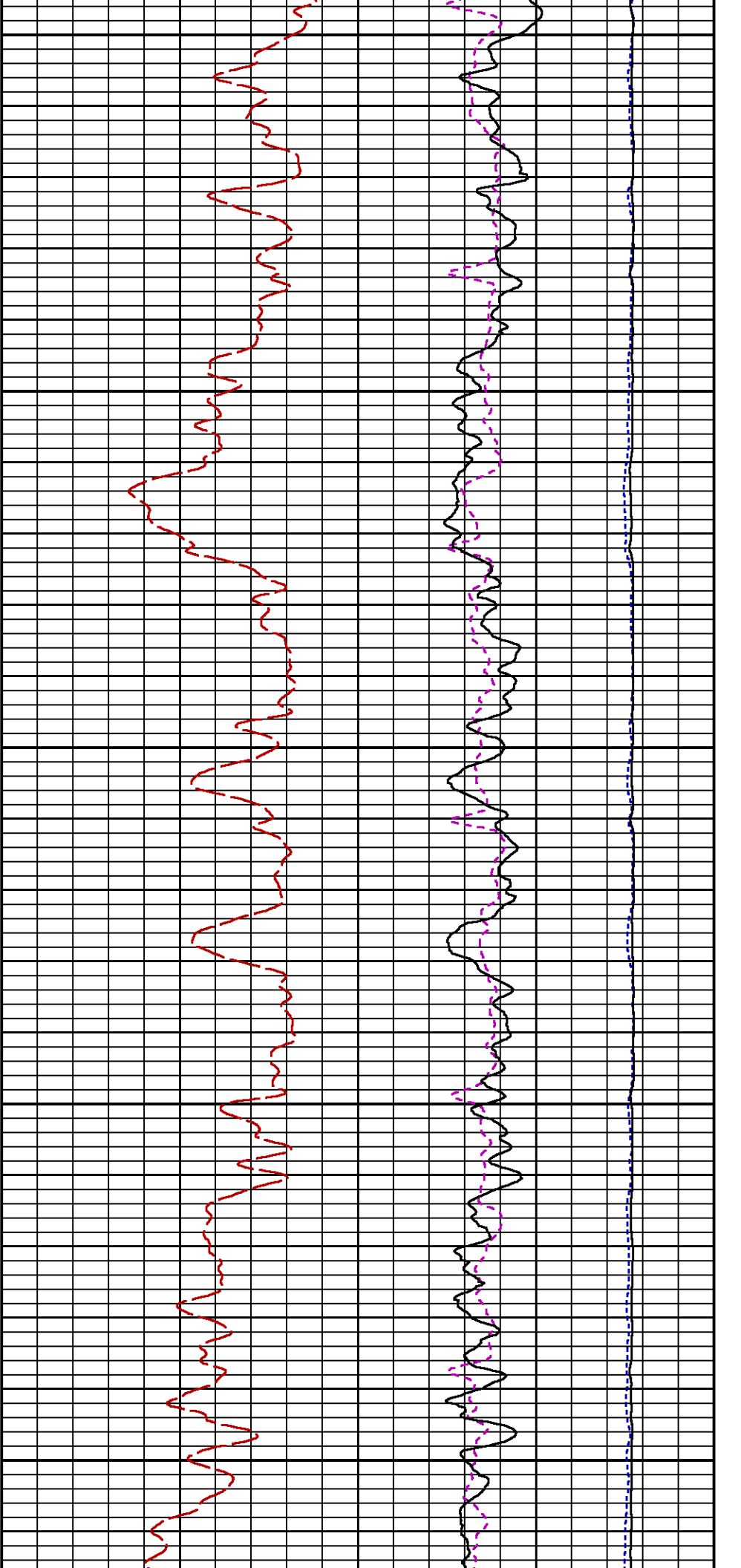


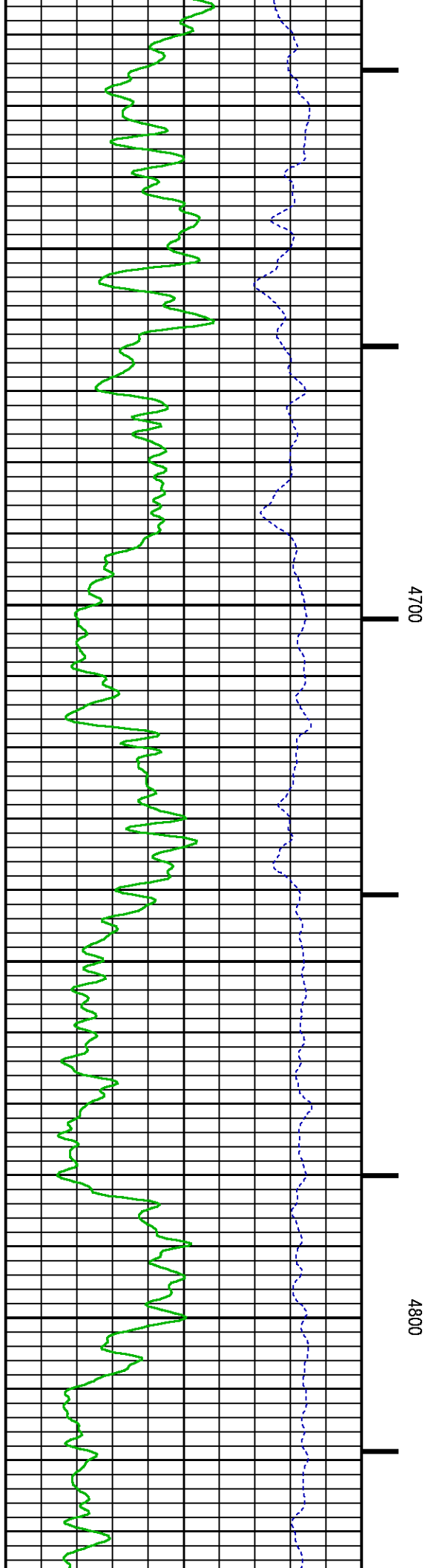
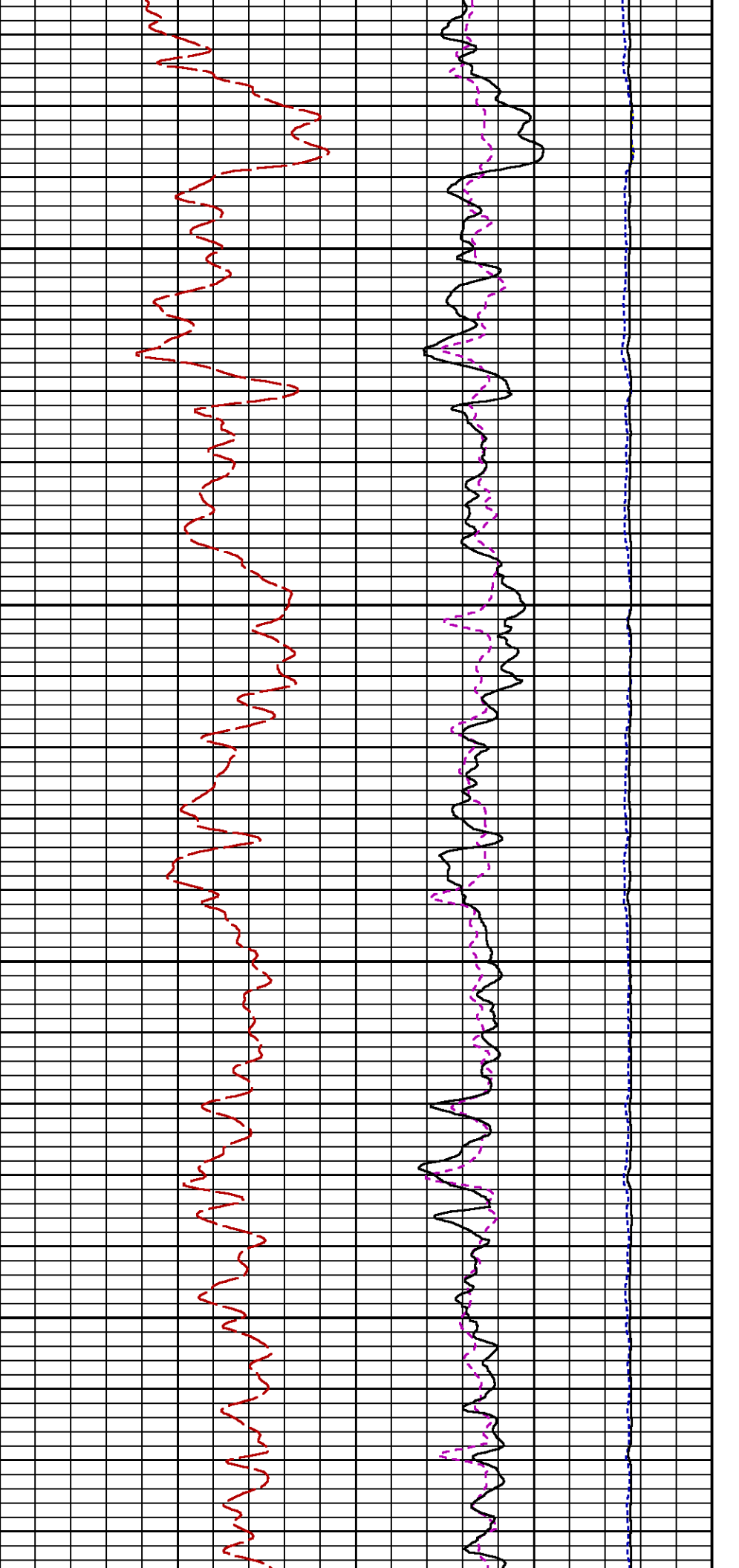
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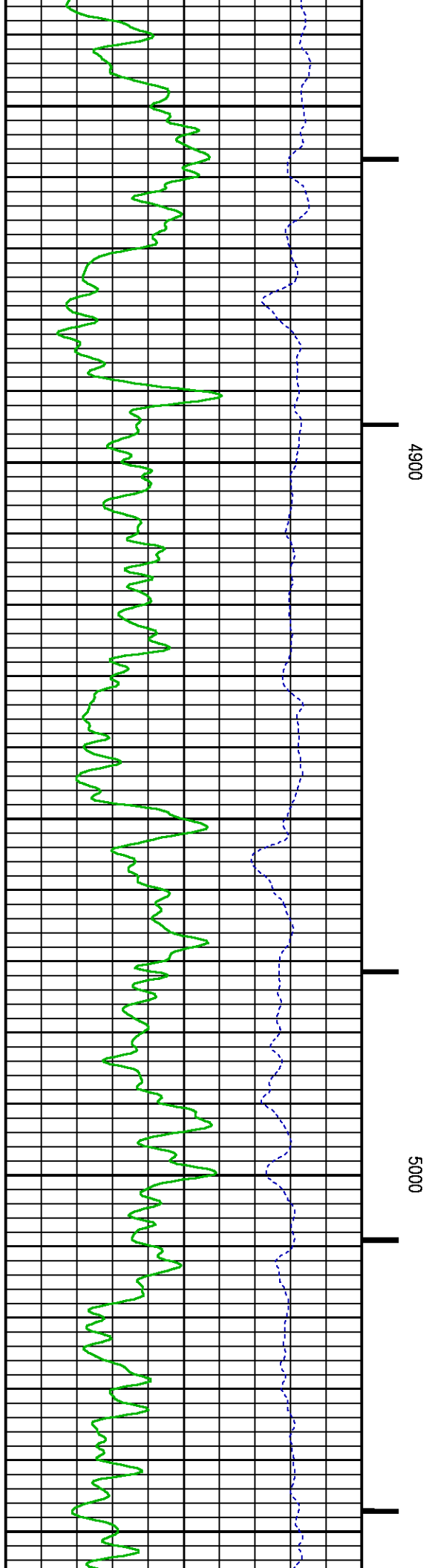
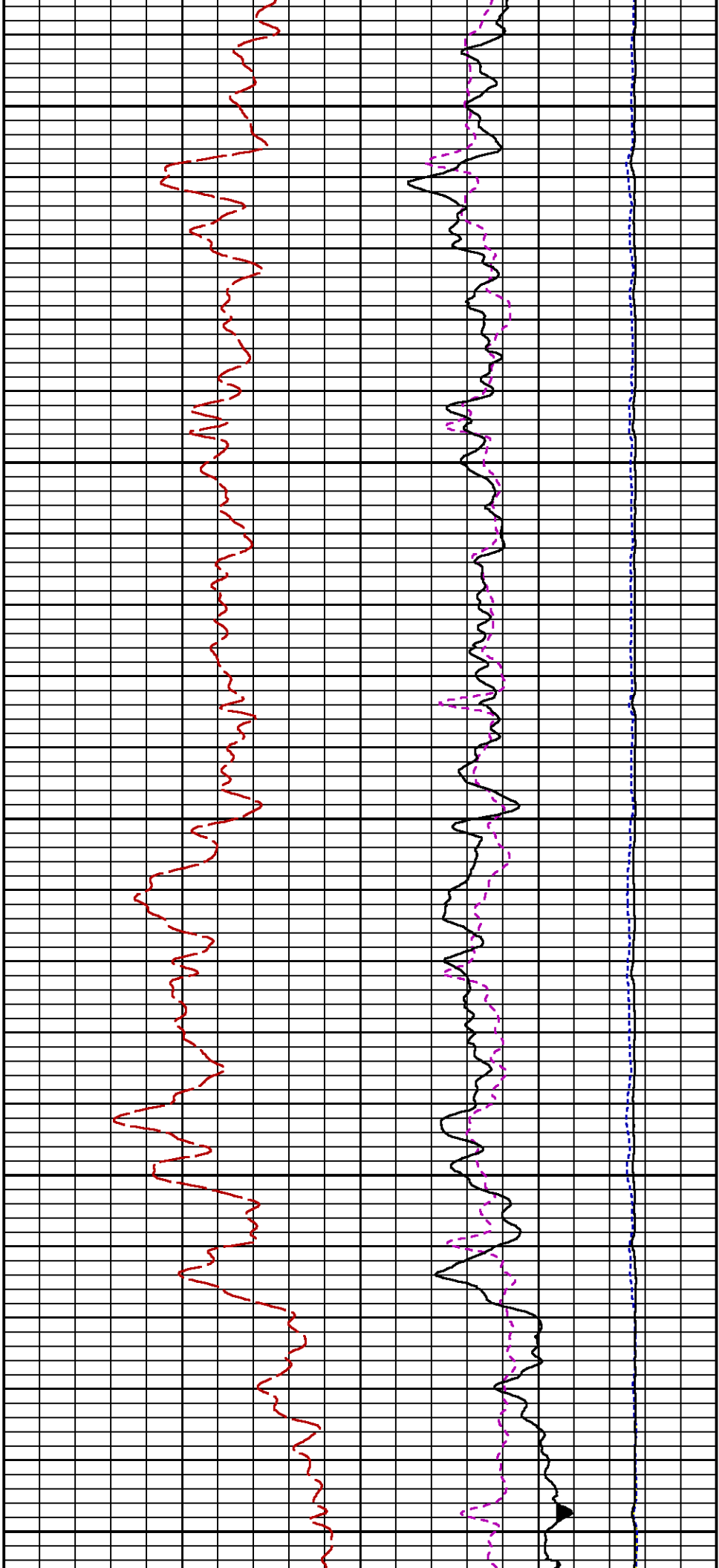
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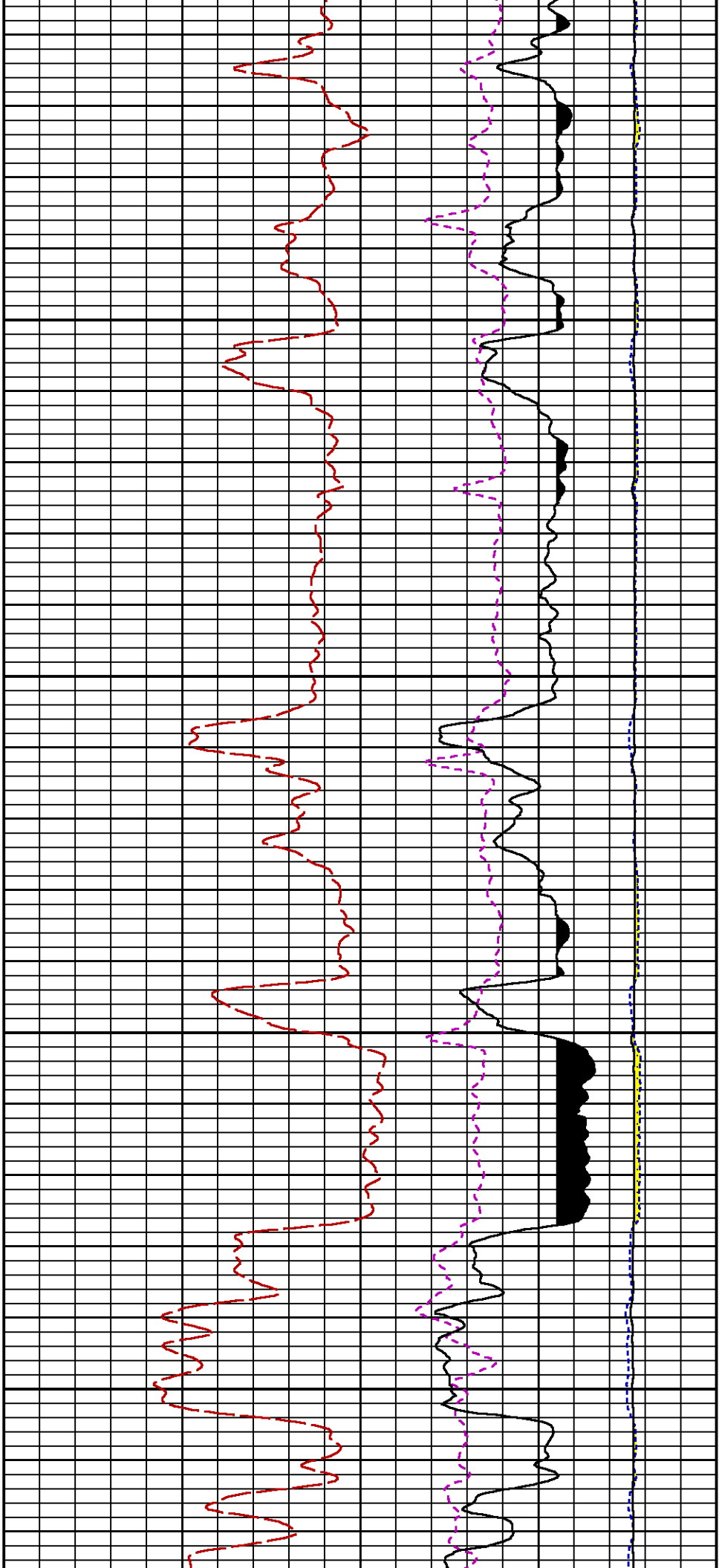






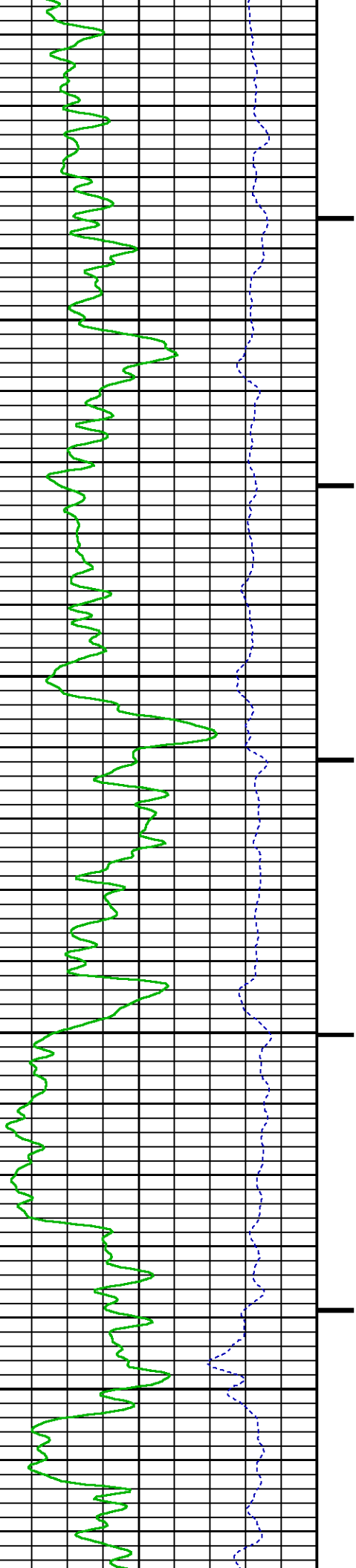


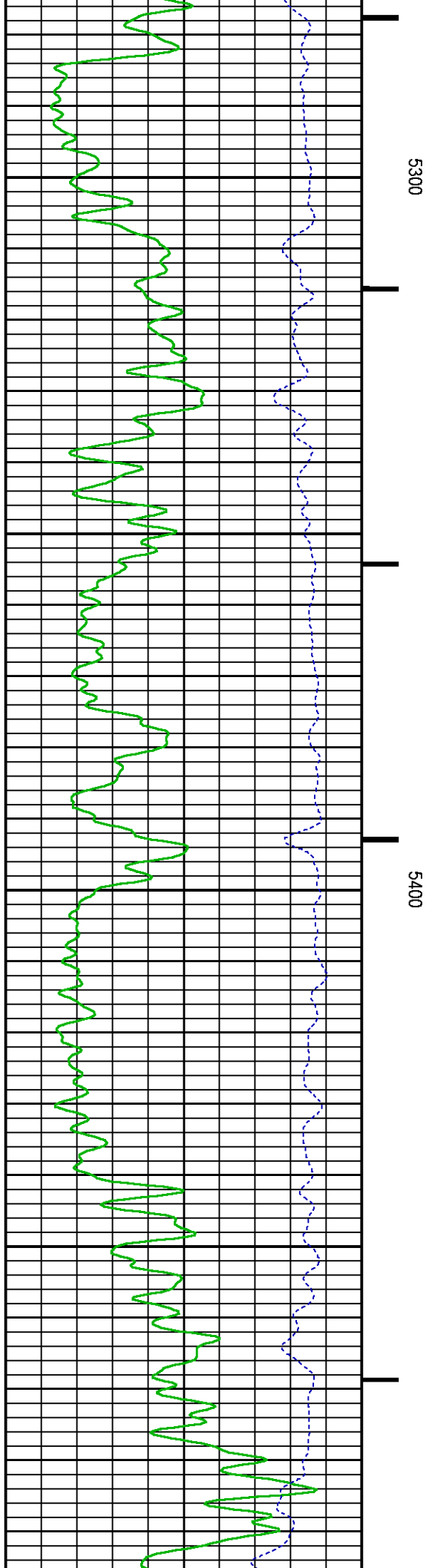
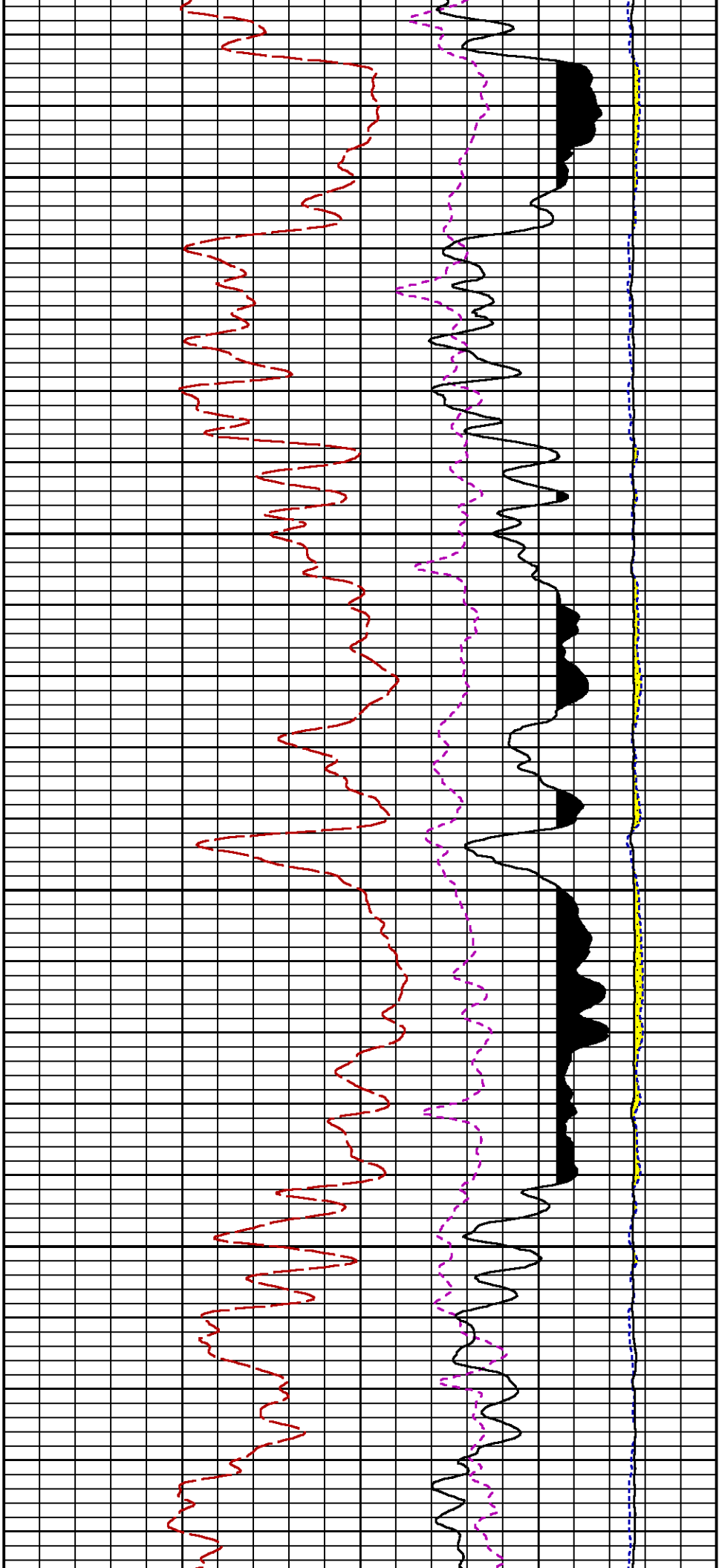


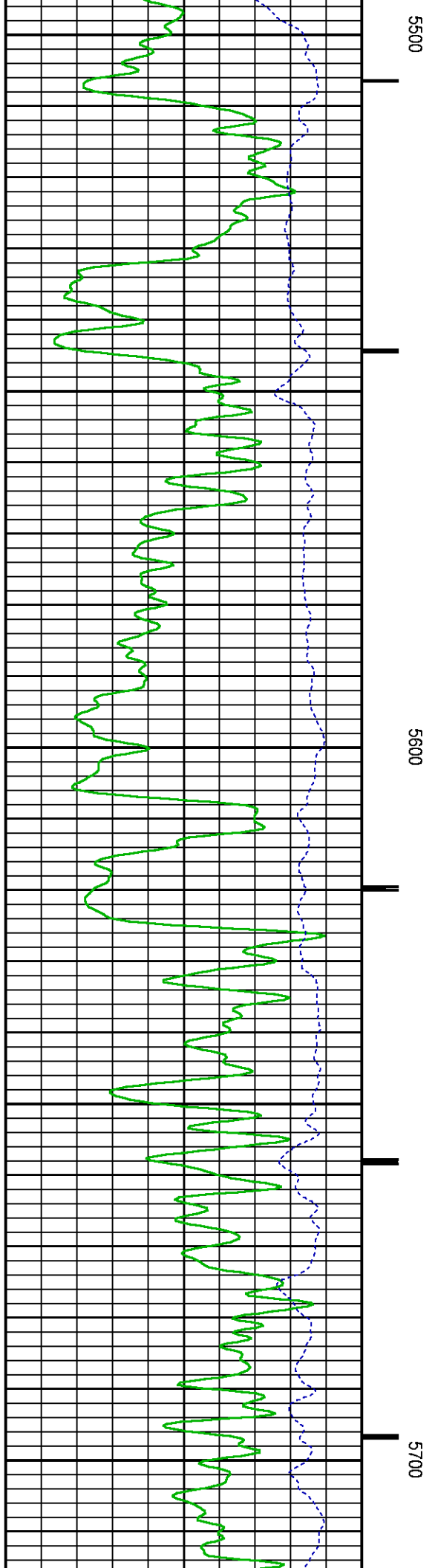
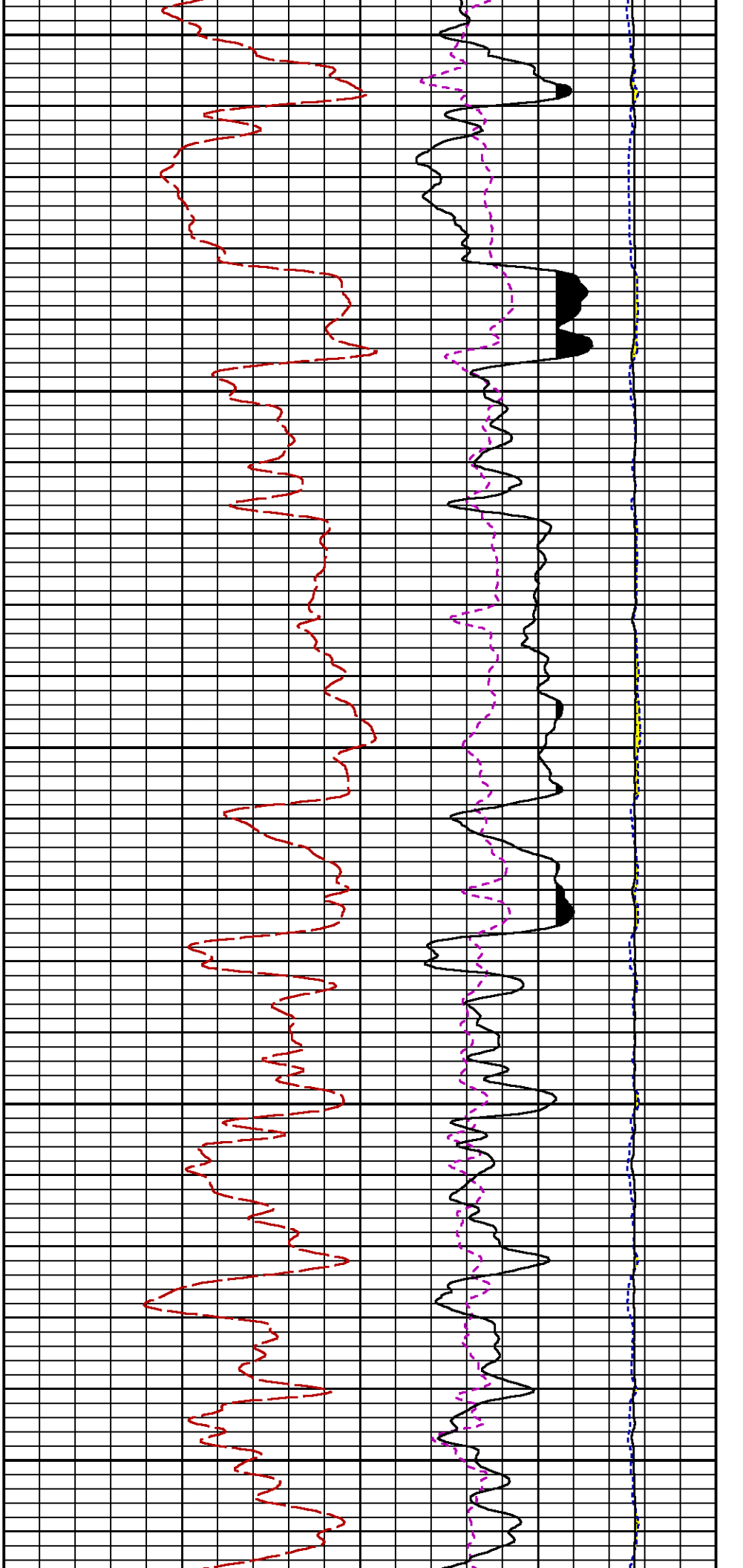


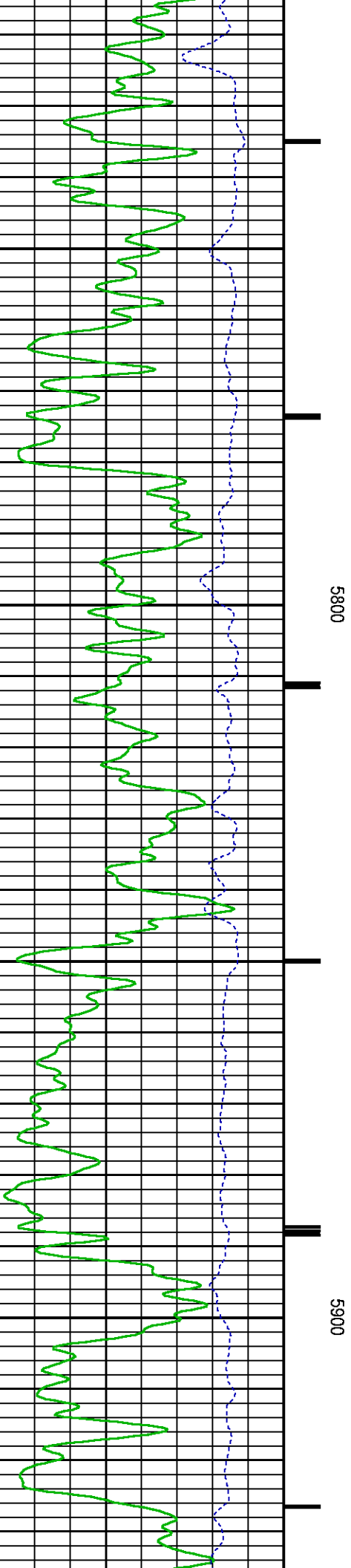
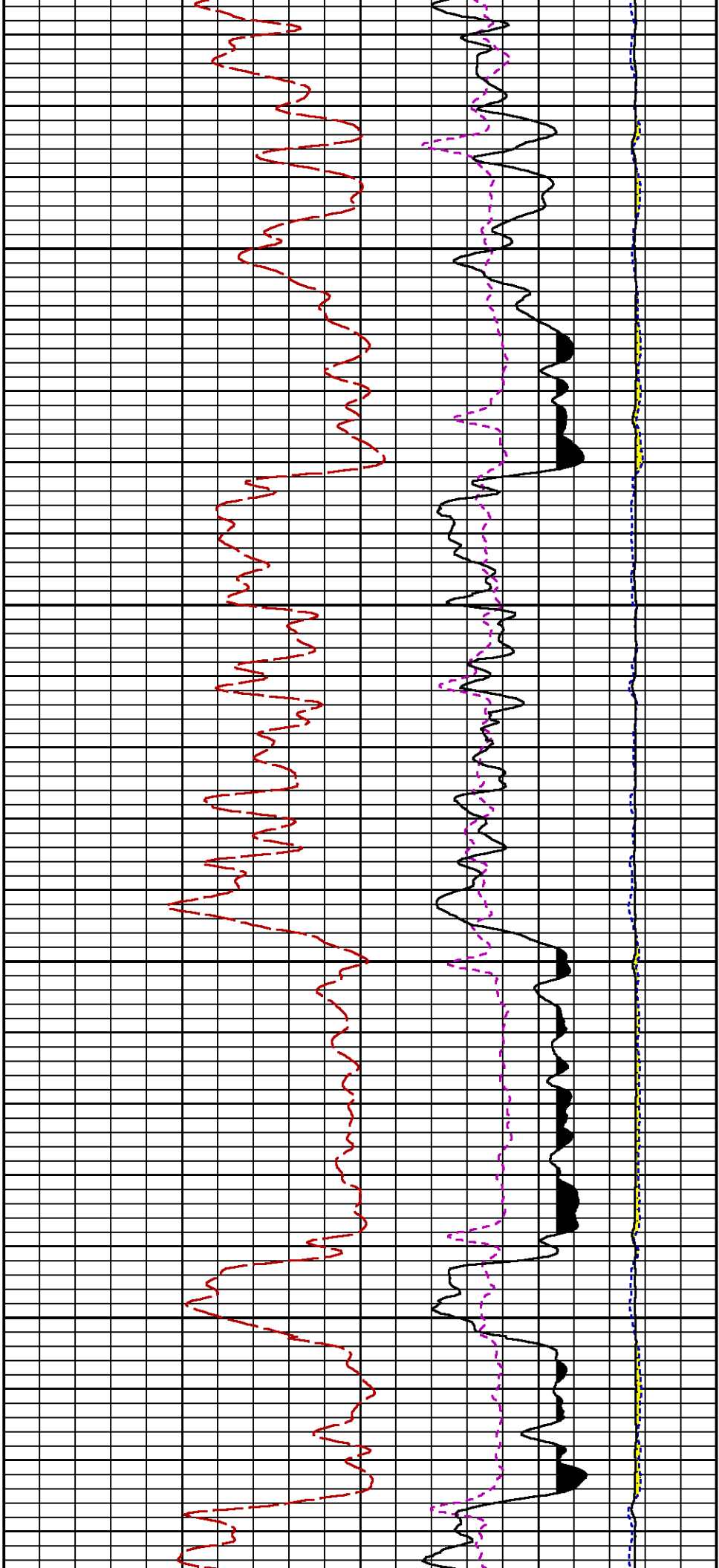
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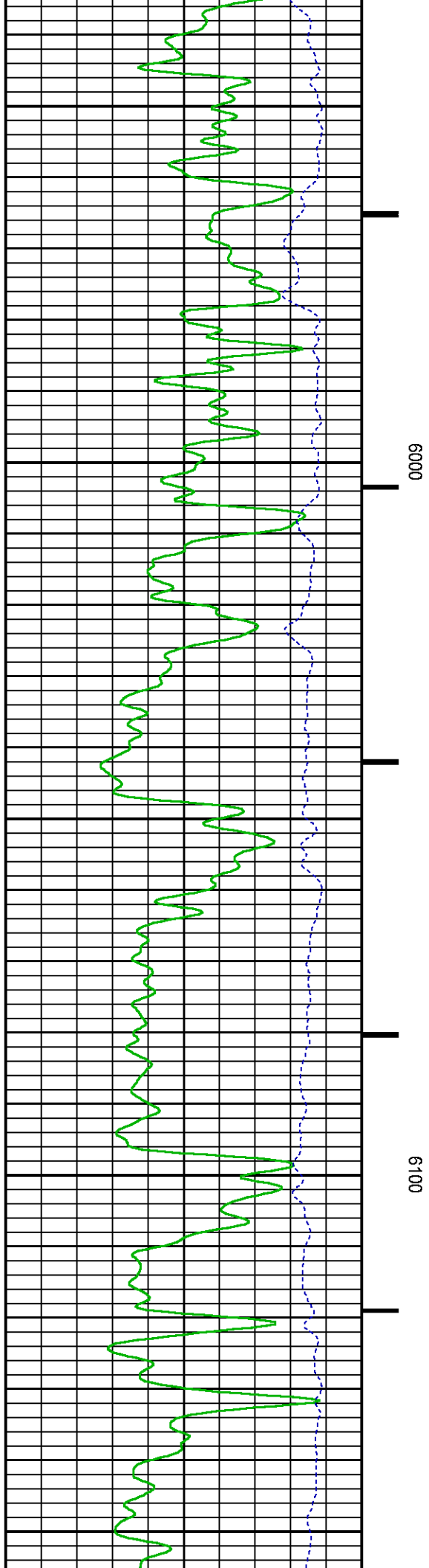
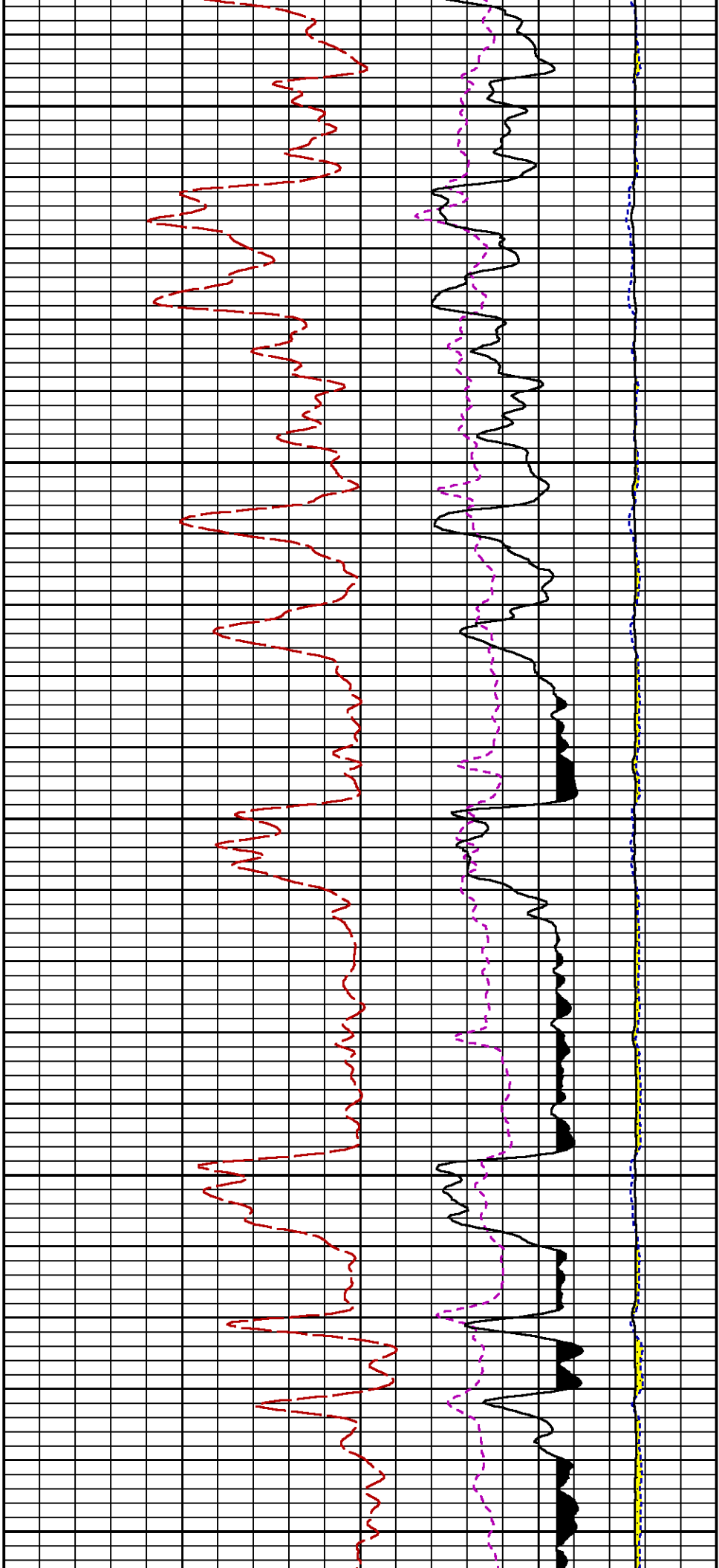
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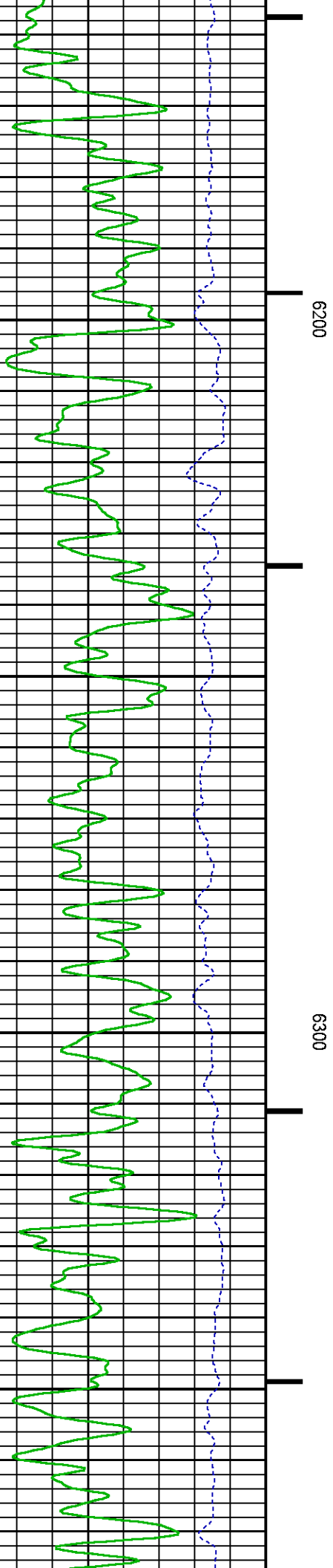
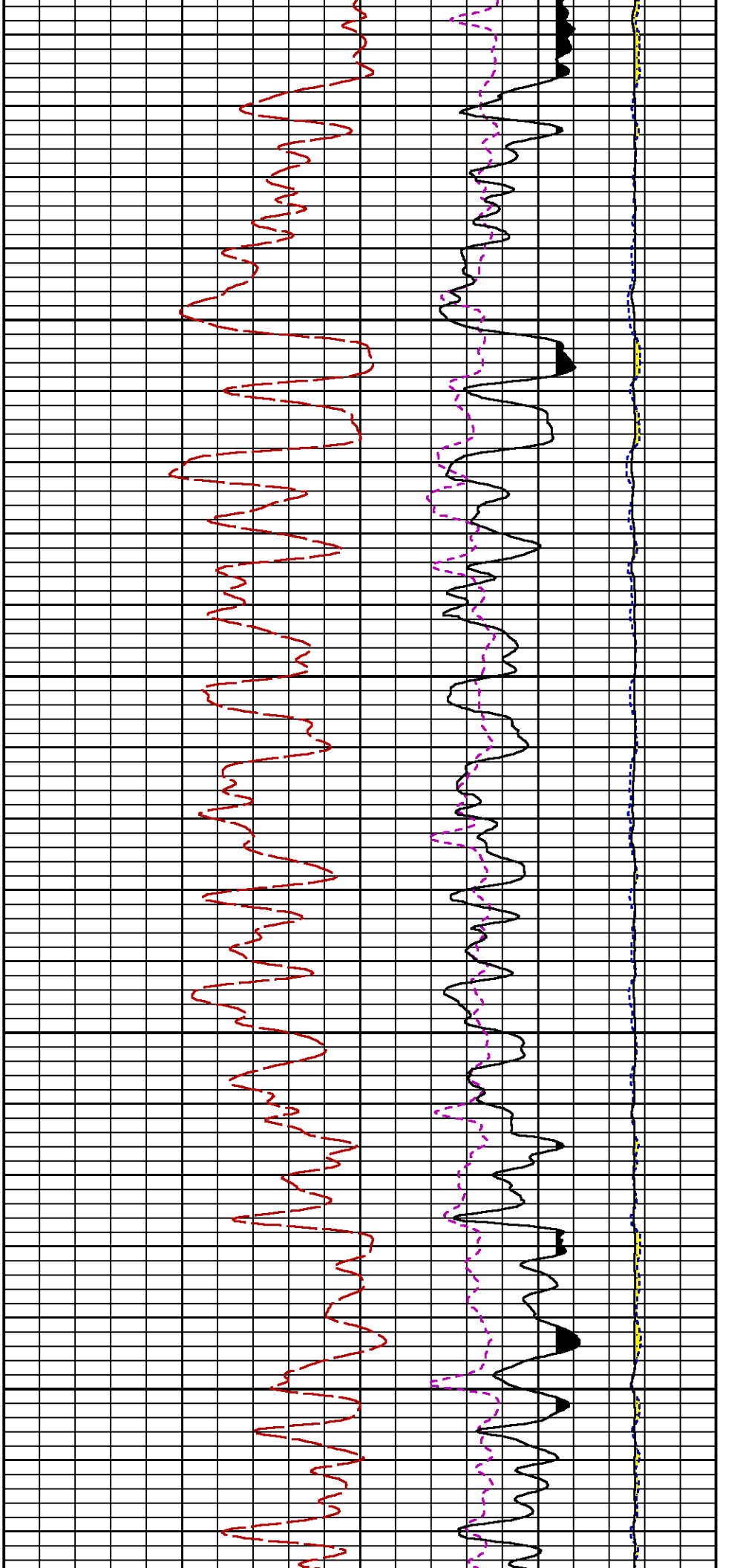


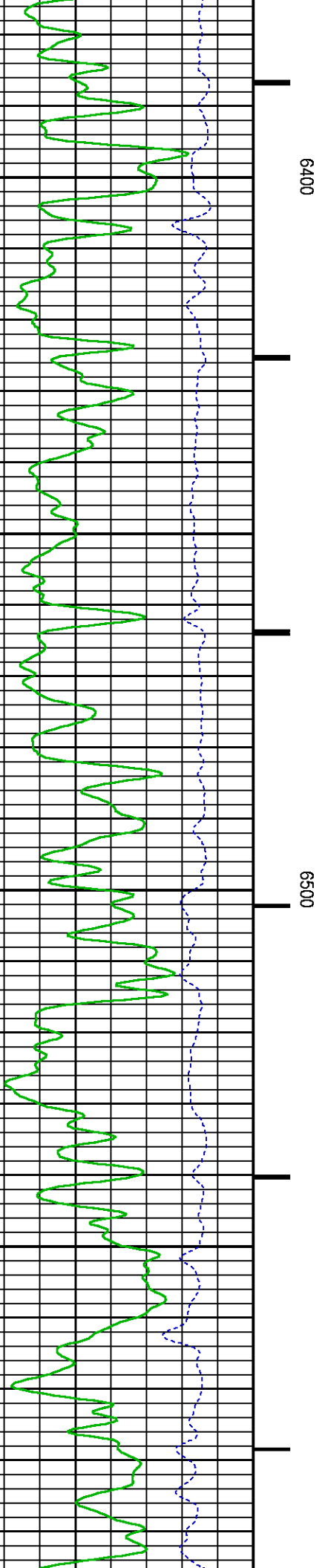
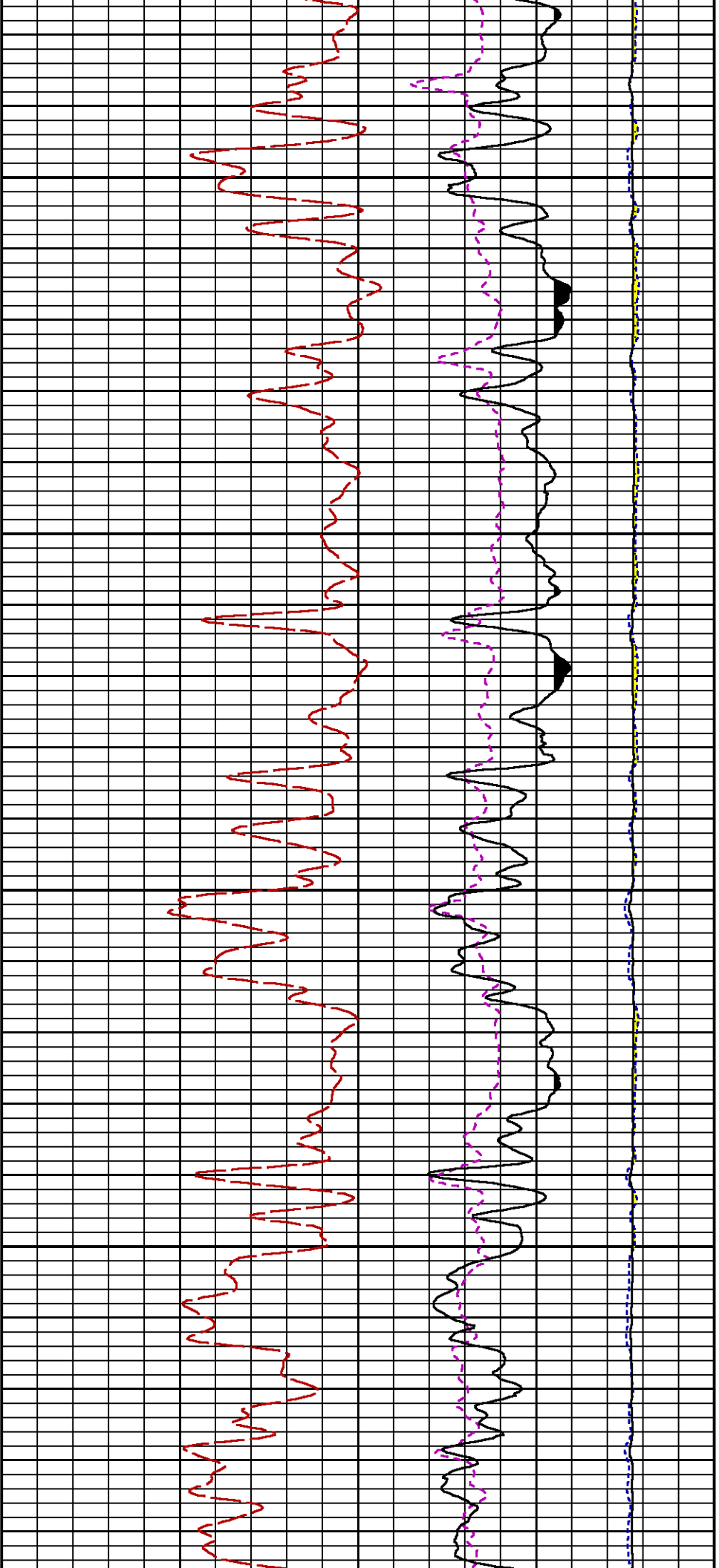


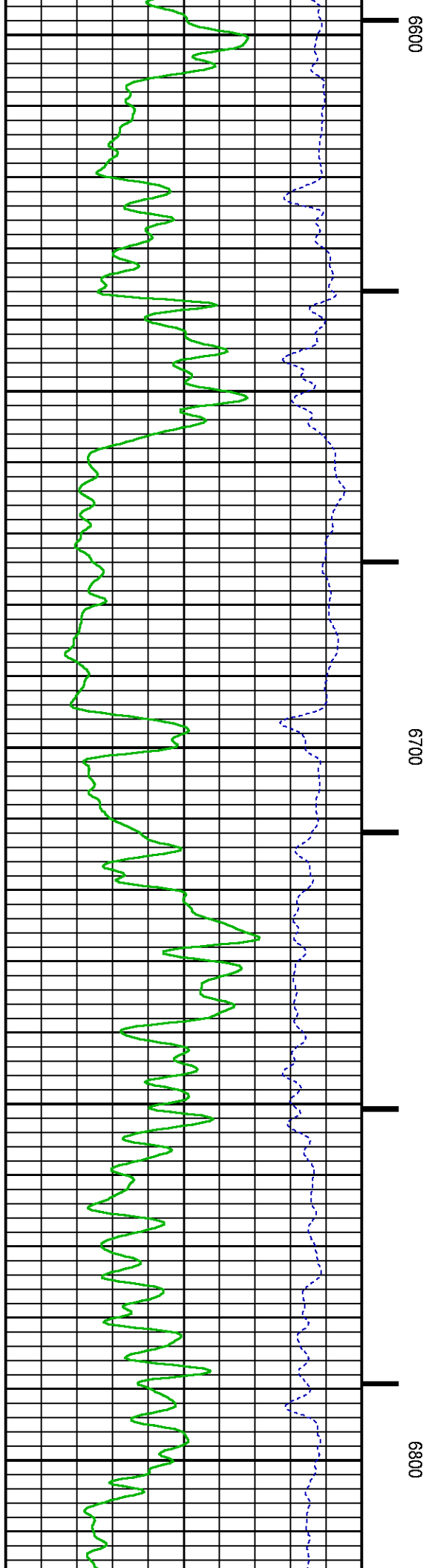
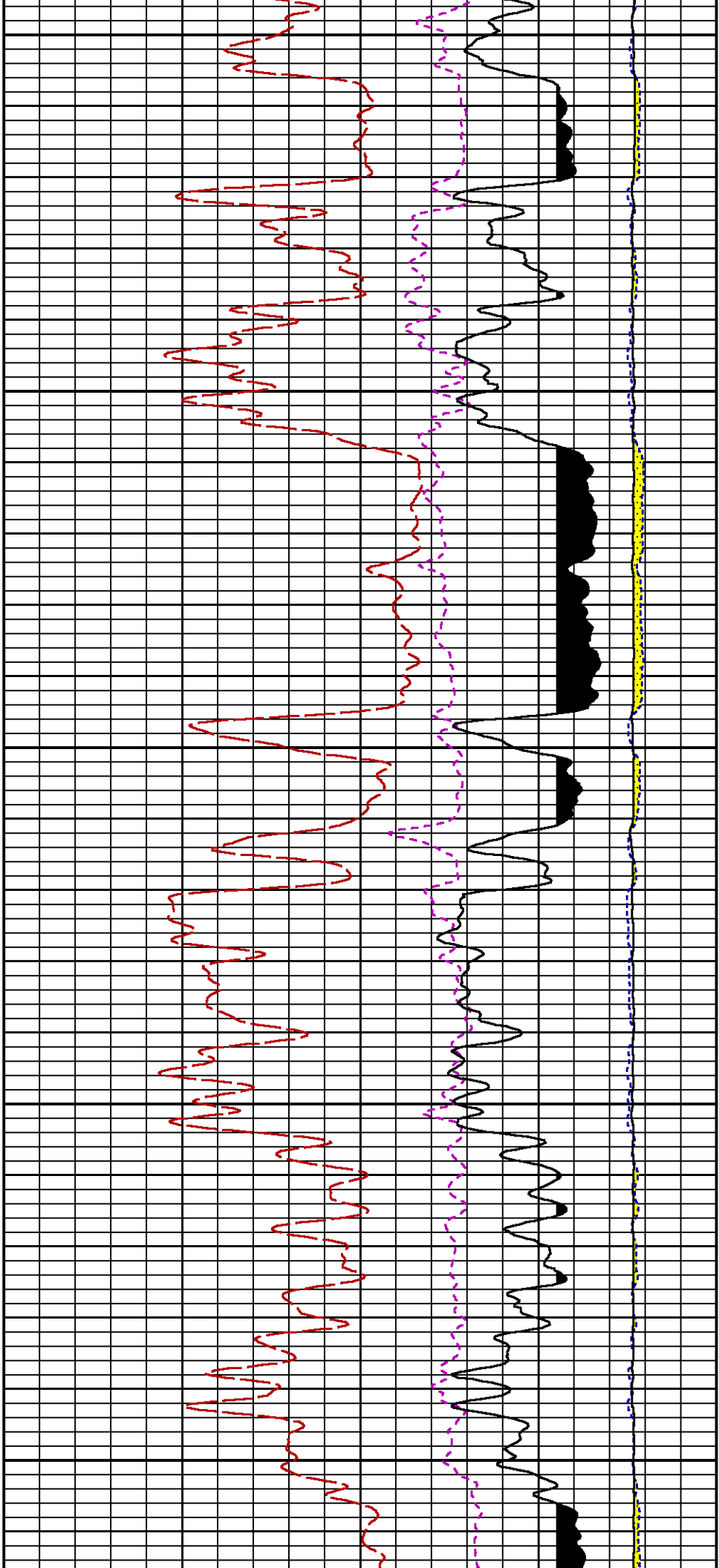


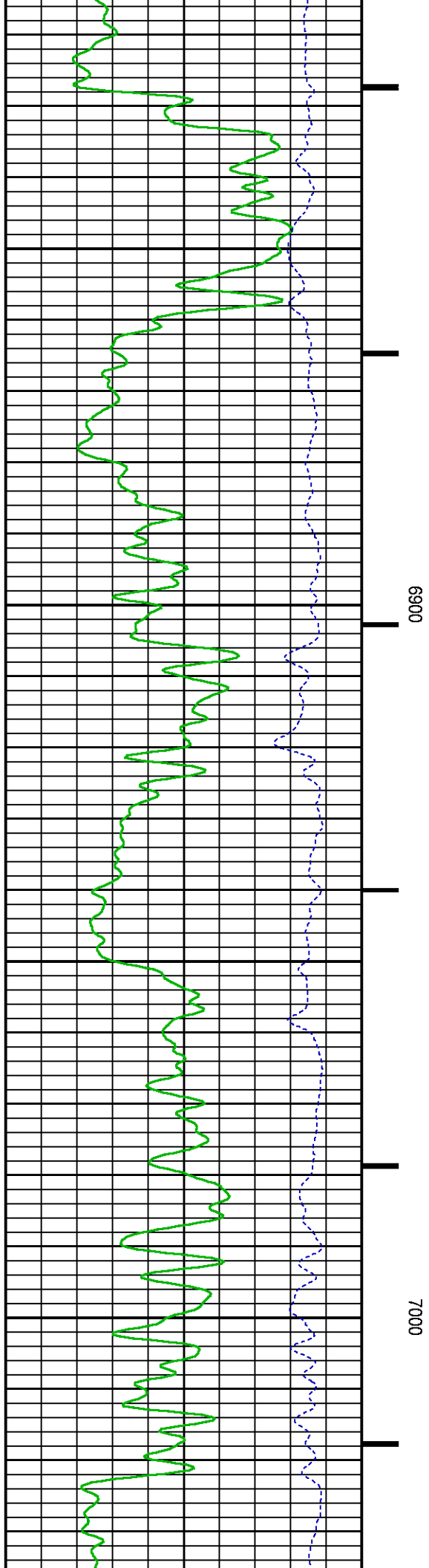
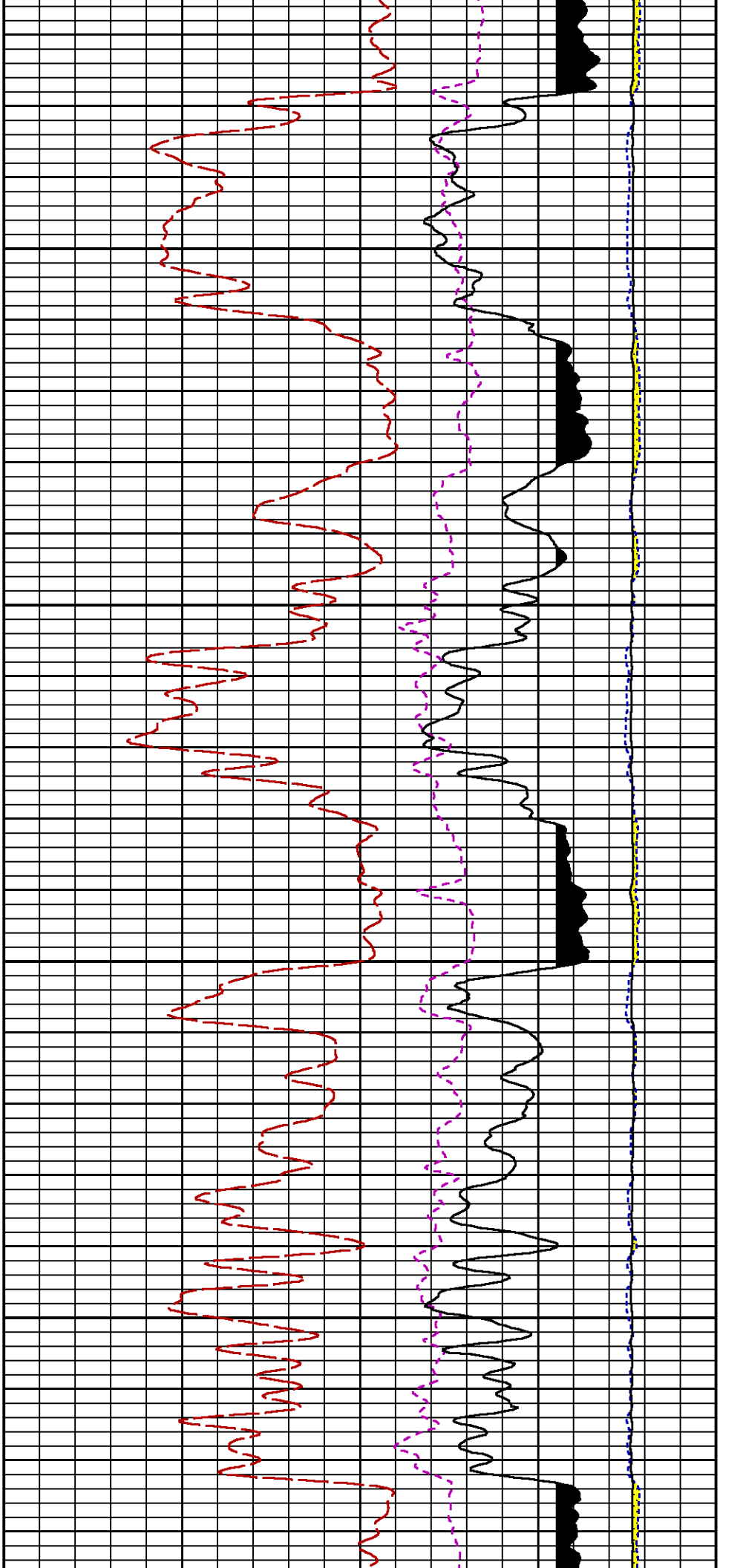


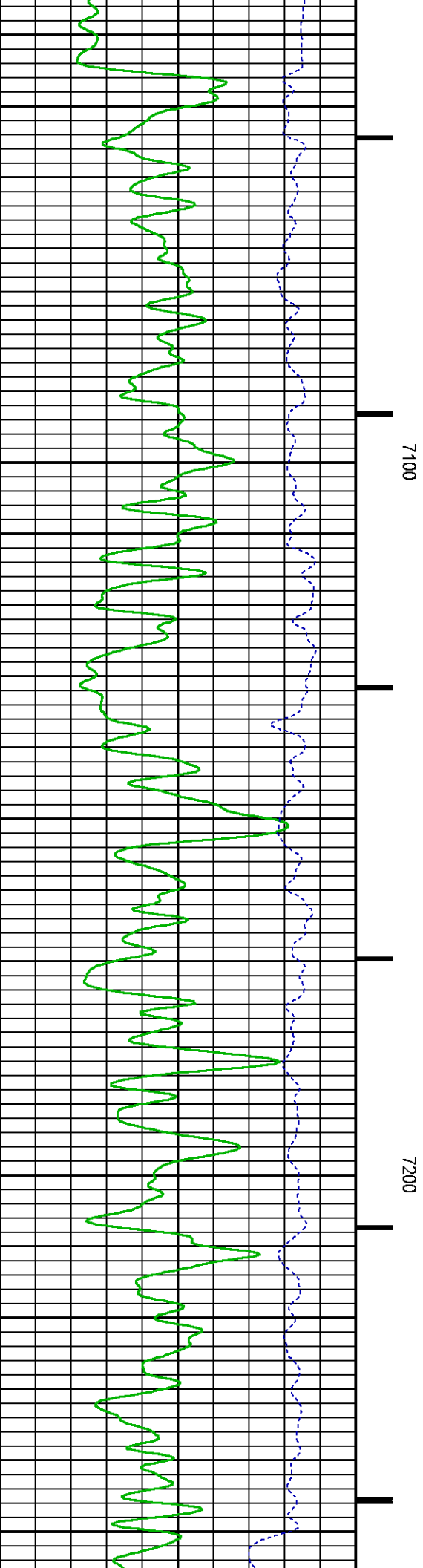
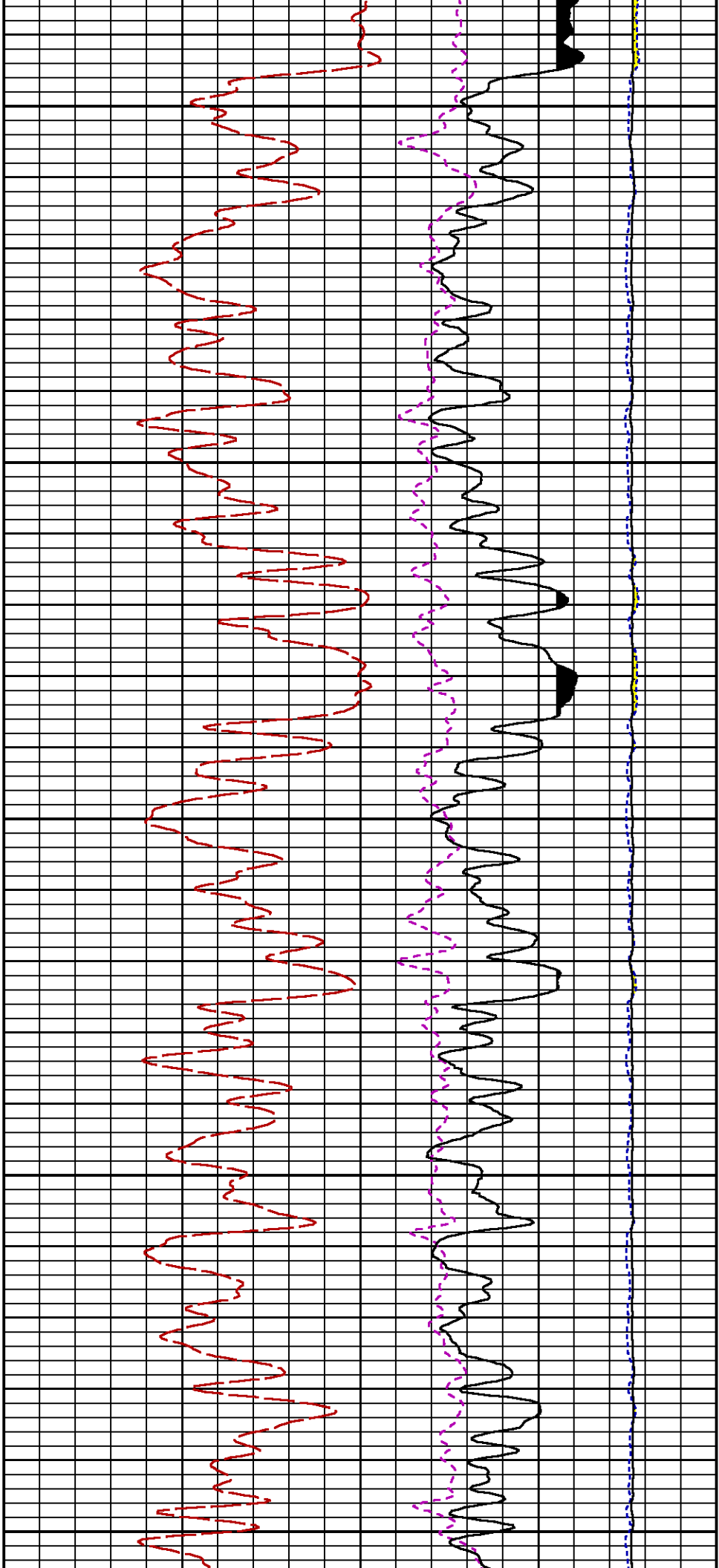


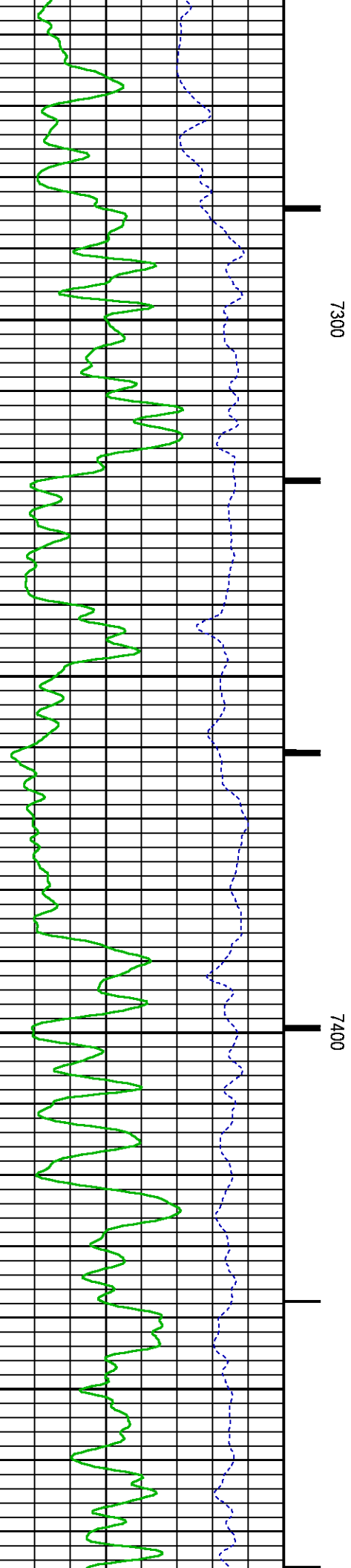
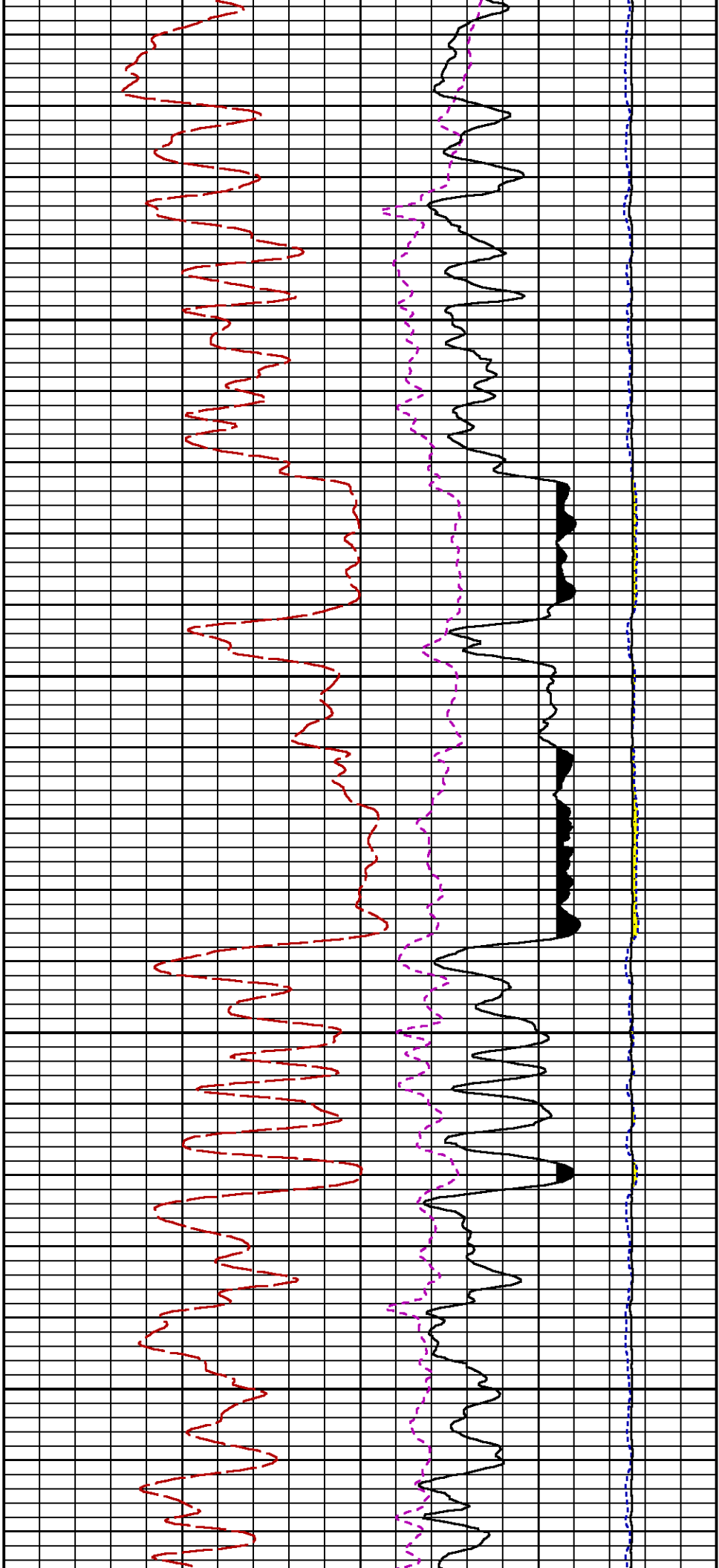


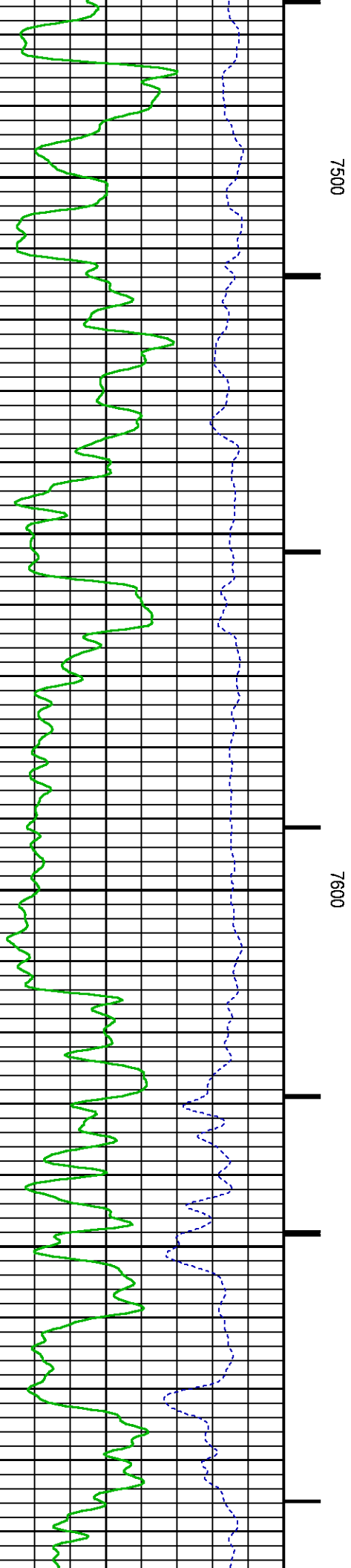
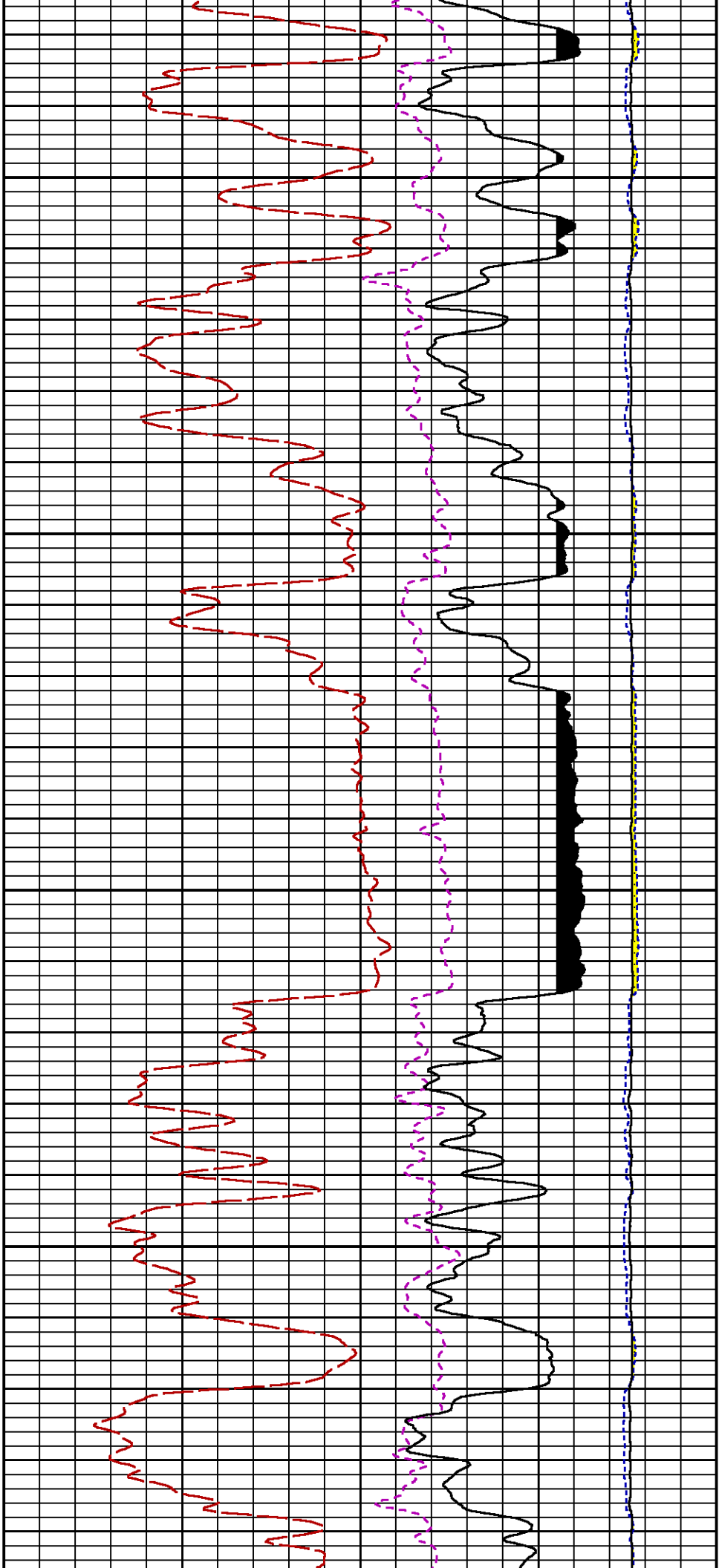


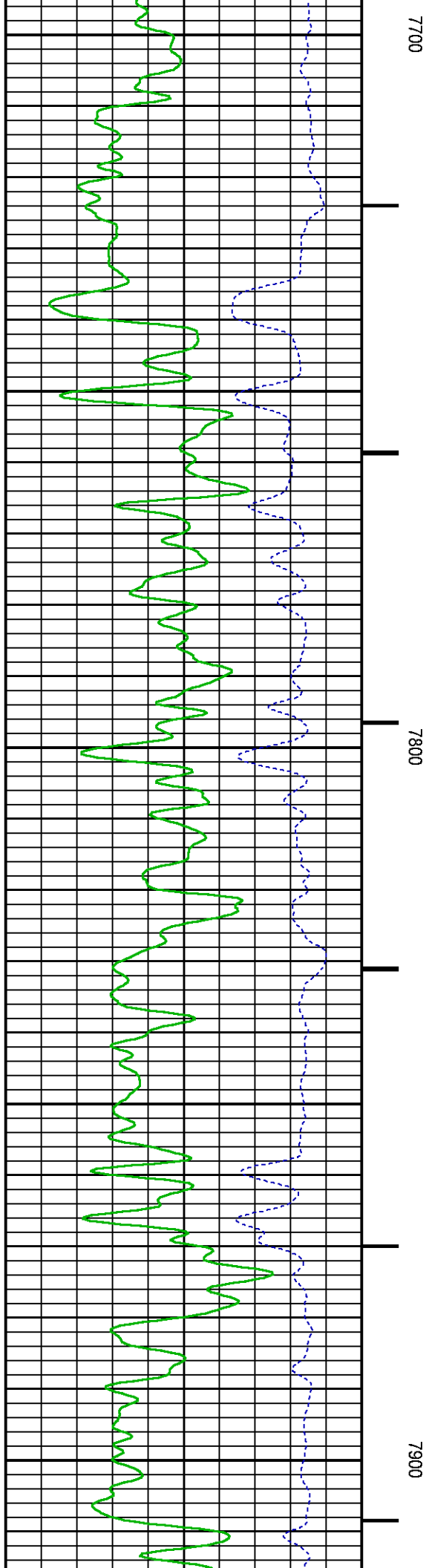
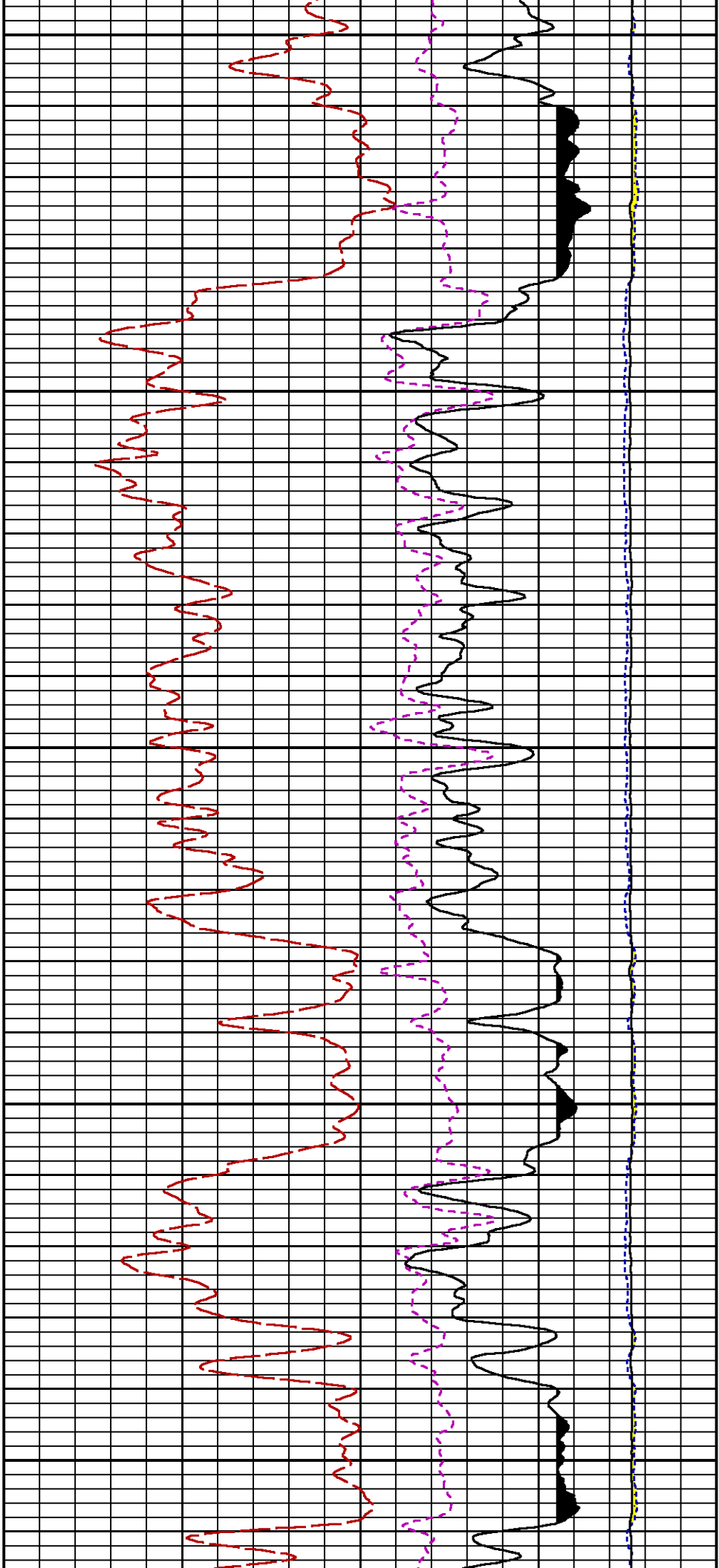


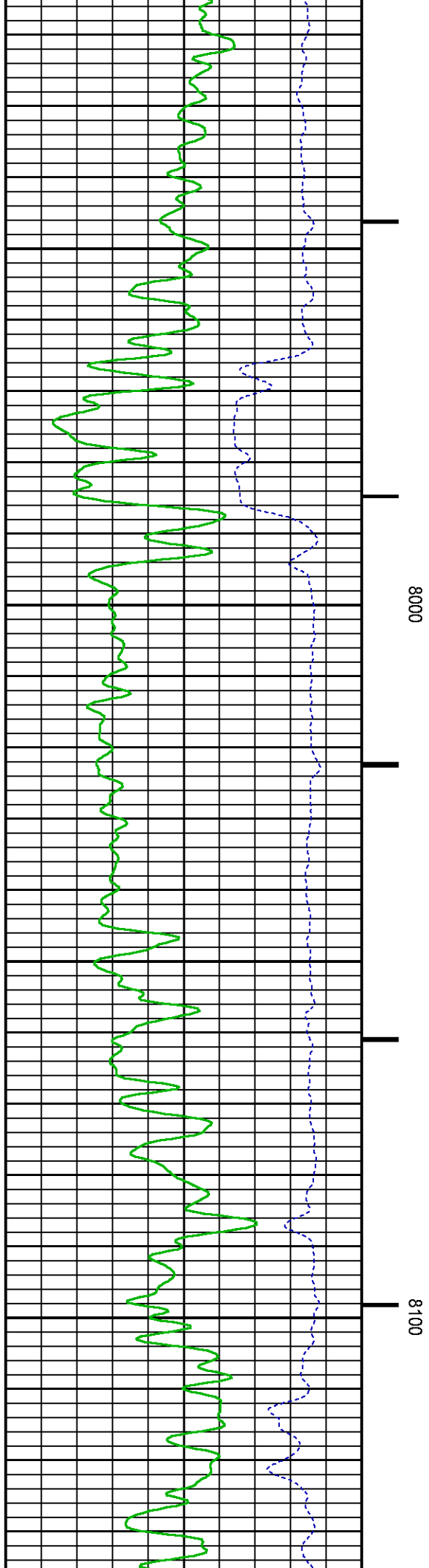
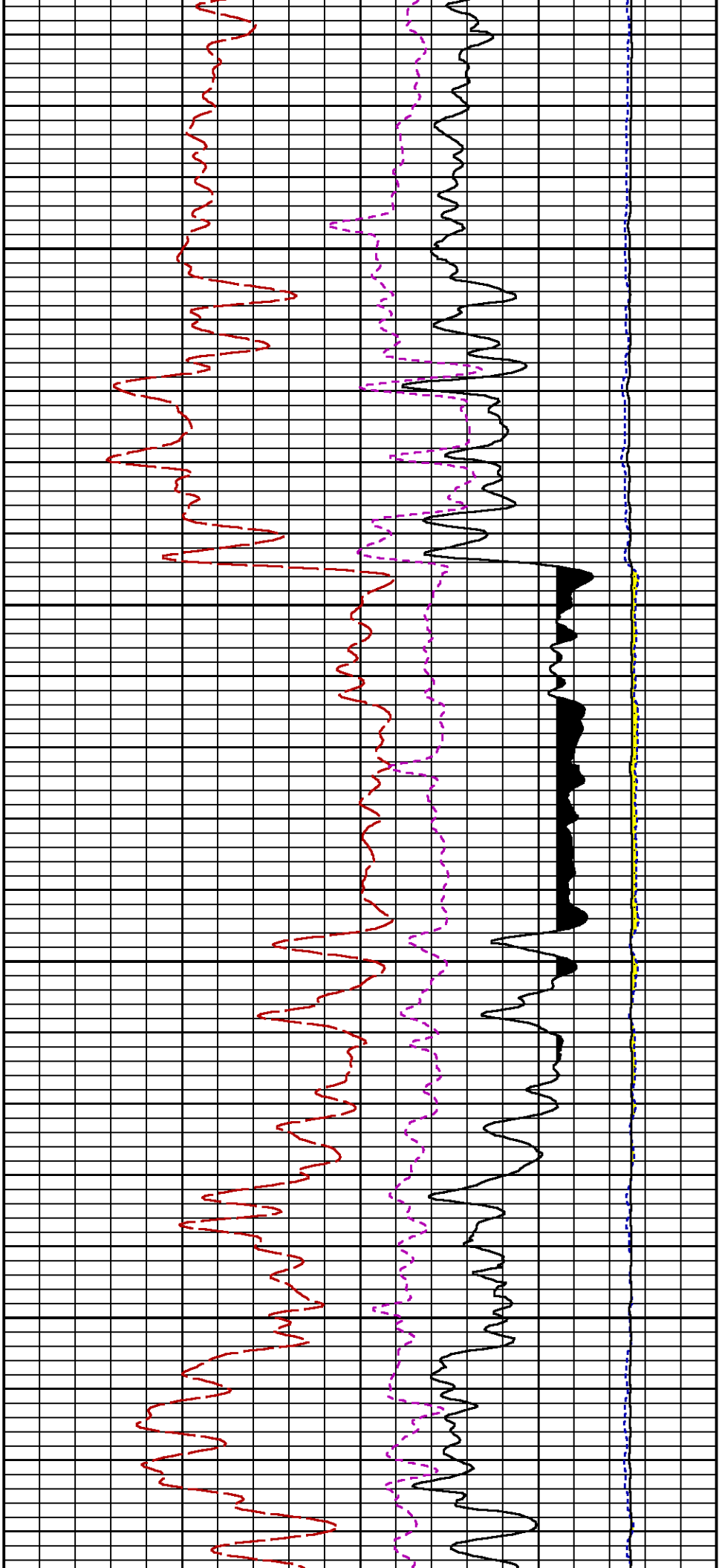


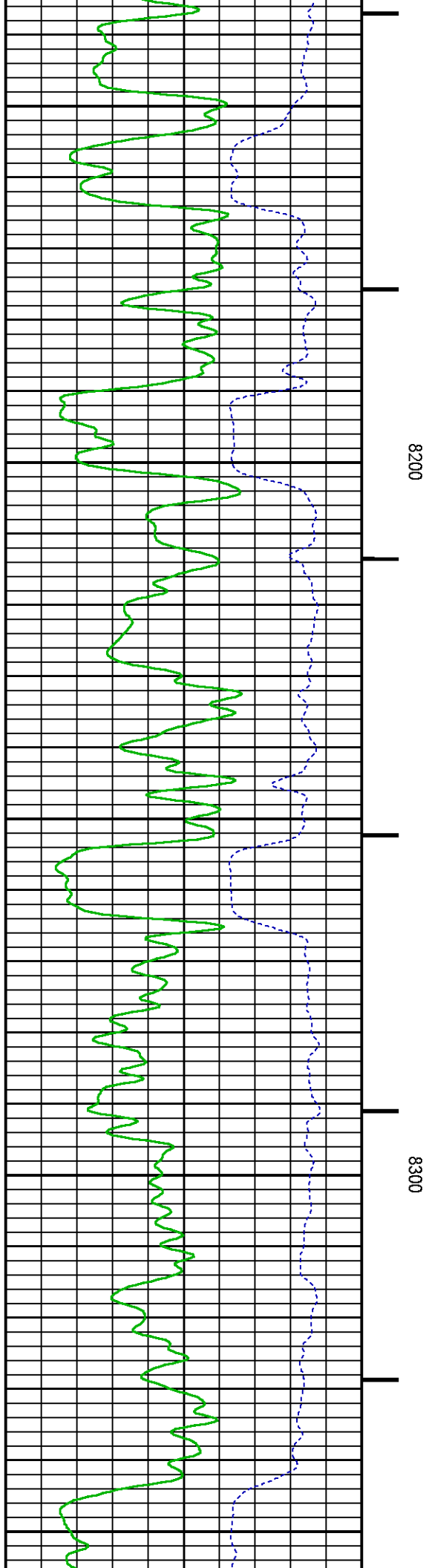
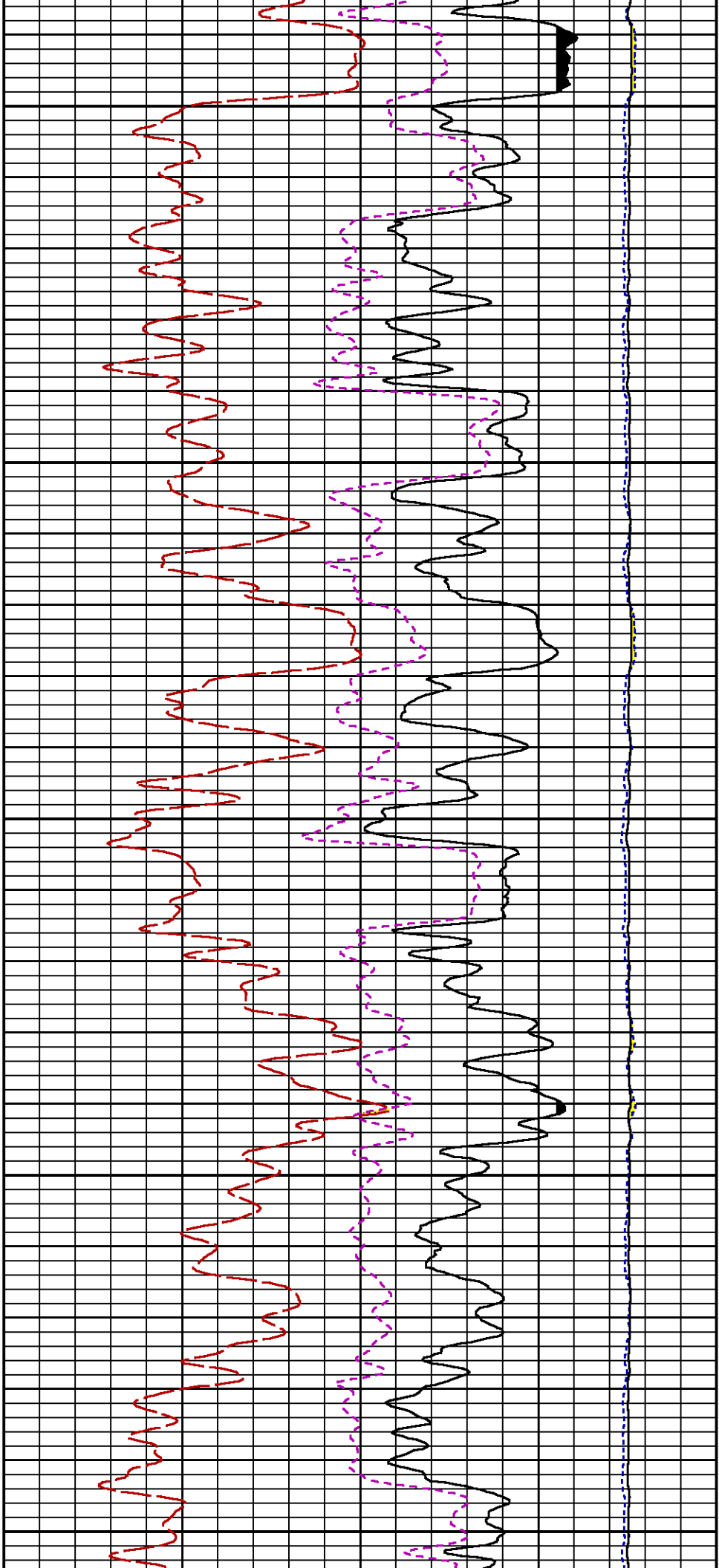


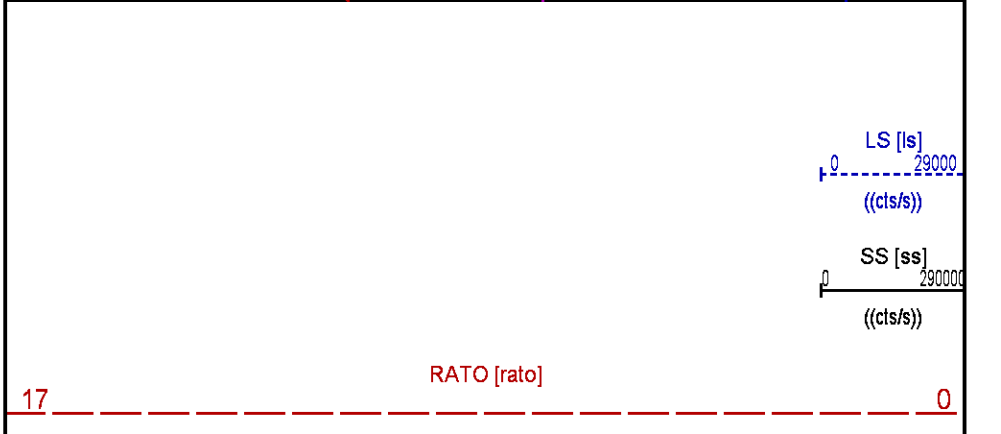
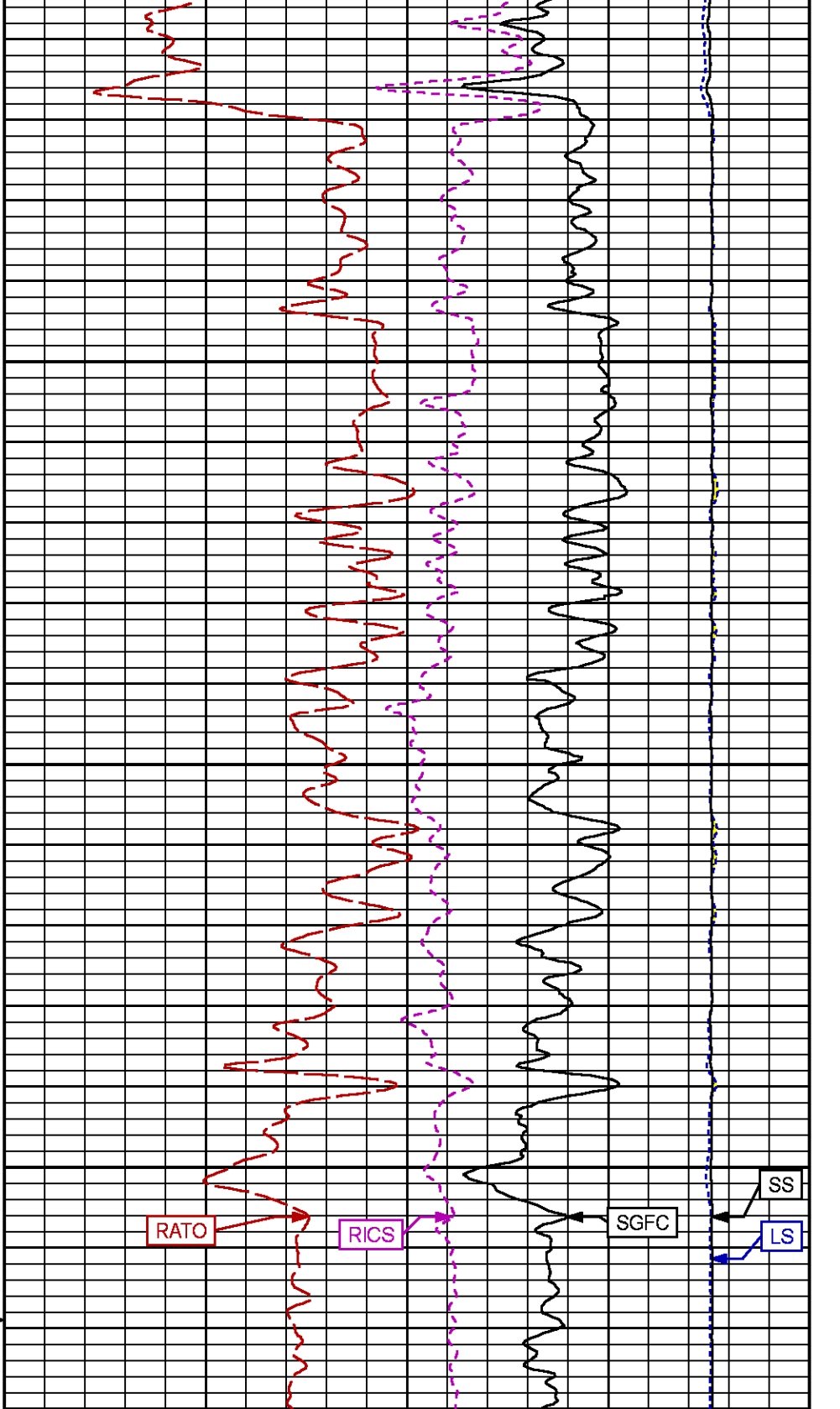
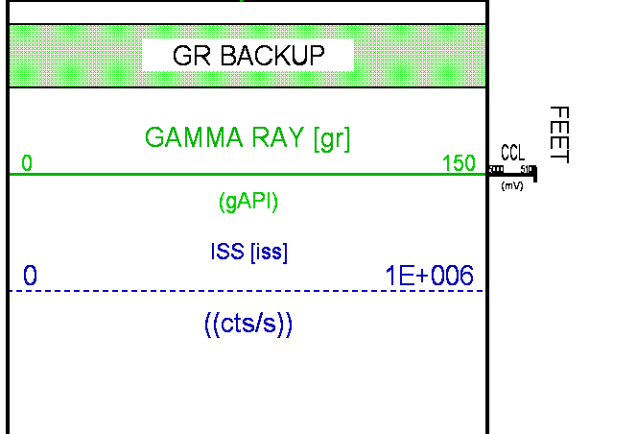
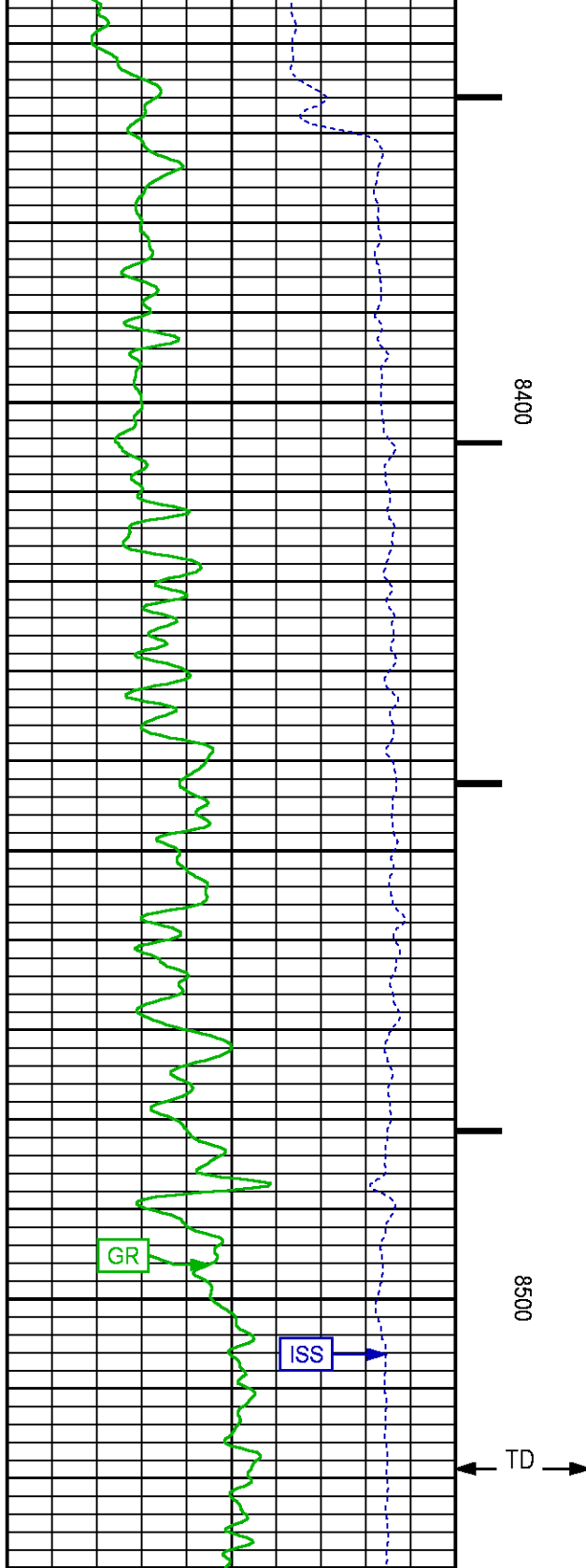












(cu)

Data File 1 : F1 : SysA:C:\Users
Created On : 5/10/2018 10:05:11 AM
Company : LARAMIE ENERGY LLC

Well : HG FED 35-01W
Field : ALKALI CREEK
File Interval : 6709.5 - 7009.25 Feet
OCT : p354h

GR BACKUP

GAMMA RAY [gr]

(gAPI)

ISS [iss]

((cts/s))

FEET

CCL
35
(mV)

6800

LS [ls]

((cts/s))

SS [ss]

((cts/s))

RATO [rato]

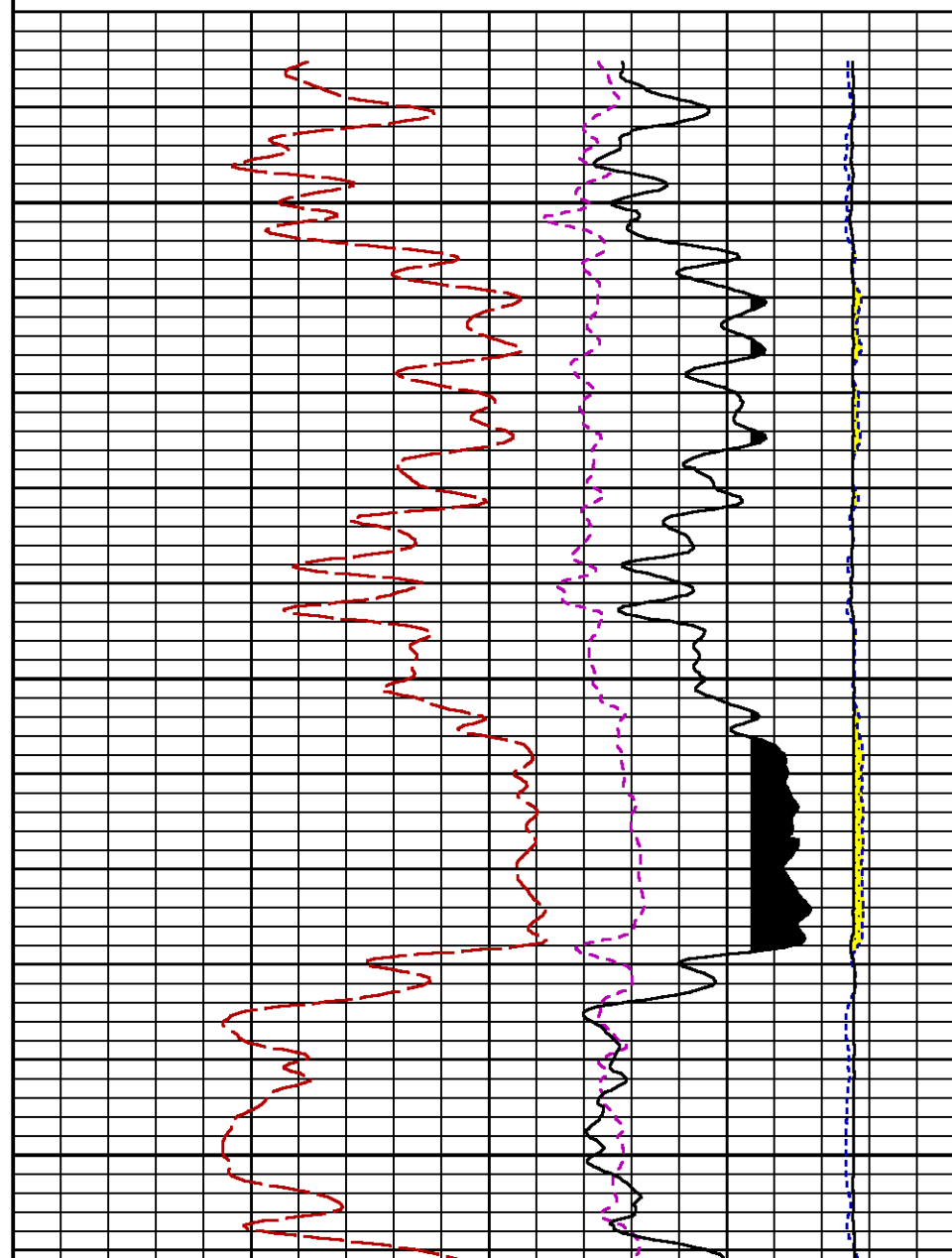
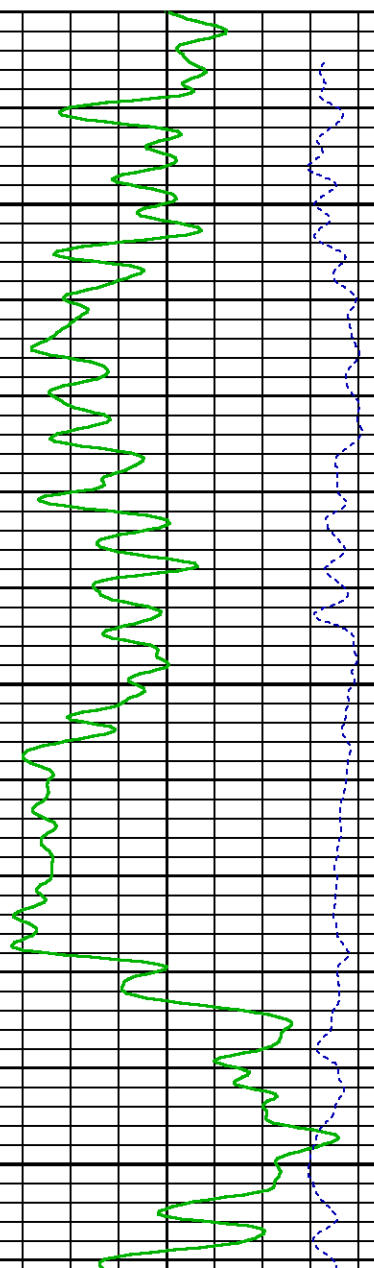
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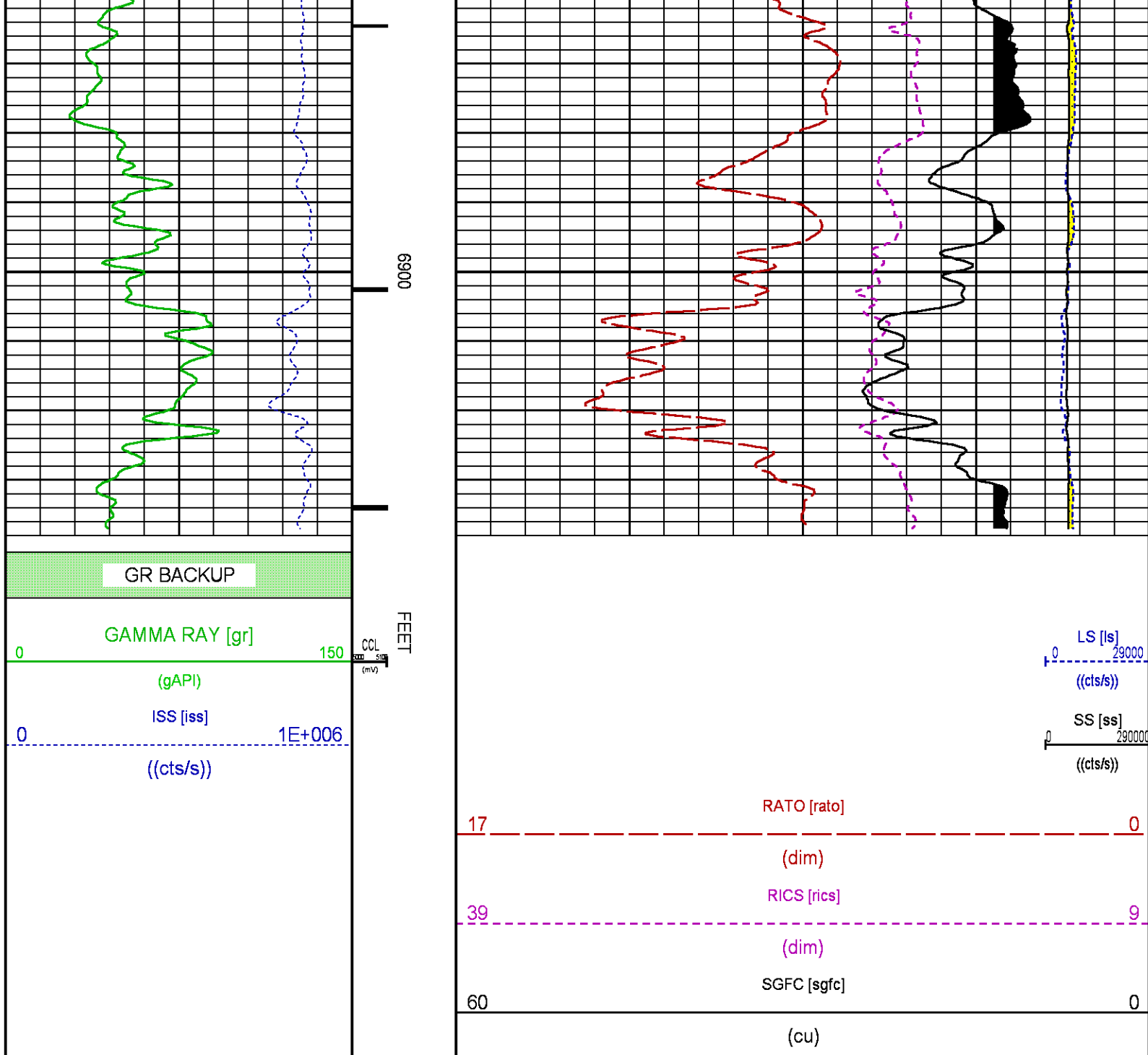
RICS [rics]

(dim)

SGFC [sgfc]

(cu)





CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/LARAMIE_HG_FEDERAL_35-01W/p354h.tp1

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 2812LA 10274385

DATE/TIME PERFORMED: Fri May 4 12:30:49 2018

UNIT #: 5753XD 10412898

CALB JIG #: 4702NK DA_254

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	58.09	309.36	251.3	0.836	48.55	258.55	210

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 2812LA 10274385

DATE/TIME PERFORMED: Fri May 4 12:35:30 2018

UNIT #: 5753XD 10412898

VERI JIG #: 4702NK DA_254

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	58.89	306.91	0.836	49.22	256.51	207.29
						200.00 220.00

RPM_PNC_3D PRIMARY CALIBRATION SUMMARY

TOOL: 8283PA 10066991

DATE/TIME PERFORMED: Mon May 7 15:09:32 2018

UNIT: 5753XD 111111

CALIBRATOR: 2437XB 112674

SOURCE: 8281AA 10430258

HOURS: 8281AA 88

	ISS	Mtr VIts (V)	SS Gain	LS Gain	XLS Gain	EA Temp (degF)	Sync Delay (usec)	RCAL
Raw Data	794247	124	2139	2383	2237	120	8.0	1.0374
Interpolated	1300000	145	2128	2374	2232			

	ISS	BKS	BKL	BKX	SGA1	SDA1	SGA2	SDA2
Raw Data	794247	6835	1065	142	25.87	0.15	24.10	0.32
					25.35 26.40	0.00 0.20	23.60 24.80	0.00 0.40

	ISS	ILS	IXS	SS	SS2	LS	CSS	CLS
Raw Data	794247	178007	27088	88699	31638	8729	53712	13968
Fit Quality %		0.926	0.946	0.726	0.765	0.956	0.682	0.966

	ISS	RBOR	RIN ISS/ILS	RIN13 ISS/IXS	RICS ISS/CSS	RATO SS/LS	RTWO SS2/LS	RONE CSS/CLS
Raw Data	794247	1.43	4.46	29.33	14.79	10.16	3.63	3.85
		1.42 1.45	3.55 5.52	22.20 32.70	10.89 16.34	10.06 11.10	3.57 3.95	3.76 4.22
Fit Quality %		0.119	0.323	0.318	0.028	0.337	0.297	0.353
Reduced	1412538	1.43	4.47	29.36	14.77	10.20	3.64	3.86
		1.42 1.45	4.33 5.52	27.60 32.70	13.70 16.34	10.06 11.10	3.57 3.95	3.76 4.22

INSTRUMENT CONFIGURATION

Source File: /dat1a/LARAMIE_HG_FEDERAL_35-01W/RPM-tdg

A3 CABLEHEAD
Diameter : 1.37"

PCM POWER SUPPLY
Diameter : 1.70"
Length : 3.86"
Weight : 18 lbs
Series : 8250EA
Mnemonic : PCM

33.24'

TELEMETRY / CCL

Diameter : 1.70"
Length : 4.46'
Weight : 20 lbs
Series : 8248ED
Mnemonic : PCM
Measure Point: 1.00': CCL MP

CCL MP 25.19'

GAMMA RAY, 1 11/16"

Diameter : 1.69"
Length : 2.17'
Weight : 10 lbs
Series : 2812LA
Mnemonic : GR
Measure Point: 0.62': GR MP

GR MP 22.64'

RPM ELECTRONICS

Diameter : 1.70"
Length : 4.48'
Weight : 16 lbs
Series : 8281EA
Mnemonic : RPM

RPM C DETECTOR SECTION

Diameter : 1.70"
Length : 9.40'
Weight : 41 lbs
Series : 8283PA
Mnemonic : RPM
Measure Point: 5.45': XLS MP
Measure Point: 5.04': LS MP
Measure Point: 4.79': SS MP

XLS MP 13.58'
LS MP 13.16'
SS MP 12.91'

RPM SOURCE SECTION

Diameter : 1.70"
Length : 4.70'
Weight : 18 lbs
Series : 8281FA
Mnemonic : RPM

TEMPERATURE / PRESSURE

Diameter : 1.70"
Length : 3.30'
Weight : 13 lbs
Series : 8255XA
Mnemonic : SRPI

TEMP MP 1.65'

Measure Point: 1.52' TEMP MP

PRES MP

1.63

BULL PLUG 1 11/16

0.00'

TOTAL LENGTH: 33.24'
TOTAL WEIGHT: 140 lbs
MAX DIAMETER: 0'1.70"

**BAKER
HUGHES**
a GE company



ECLIPS

COMPANY LARAMIE ENERGY LLC

WELL HG FED 35-01W

FIELD ALKALI CREEK

COUNTY MESA STATE COLORADO

FILE NO:

CH131323

API NO:

05077093060000

LOCATION:

LAT: 39.32834 N
LONG: 107.63516 W

ELEVATIONS:

KB 7999 FT
DF
GL 7985 FT

SEC 26 TWP 8S RGE 92W

DATE 10-May-2018

