



FILE NO: CH096703	COMPANY WPX ENERGY
API NO: 05103119830000	WELL FEDERAL RGU 313-25-198
	FIELD SULPHUR CREEK
	COUNTY RIO BLANCO
	STATE COLORADO
Ver. 4.01 SEC 25 T1S R98W 42-26-198 H&P 318	LOCATION: SHL: 2454/FNL 901FEEL SEC26 T1S R98W BHL: 1631FSL 265FWL SEC25 T1S R98W SEC 25 TWP 1S RGE 98W
PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	OTHER SERVICES CBL ELEVATIONS: KB 6646 FT DF GL 6622 FT
GL KB KB	ELEVATION 24 FT ABOVE P.D.

DATE		25-May-2015	
RUN	TRIP	1	1
SERVICE ORDER		US096703J	
DEPTH DRILLER		12686 FT	
DEPTH LOGGER		12714 FT	
BOTTOM LOGGED INTERVAL		12704 FT	
TOP LOGGED INTERVAL		7100 FT	
TIME STARTED		15:30	
TIME FINISHED		24:00	
OPERATOR RIG TIME		8:30	
TYPE OF FLUID IN HOLE		WATER	
FLUID DENSITY		NA	
FLUID SALINITY		NA	
FLUID LEVEL		194 FT	
LOGGED CEMENT TOP		NA	
WELLHEAD PRESSURE		0 PSI	
MAXIMUM HOLE DEVIATION		NA	
NOMINAL LOGGING SPEED		80 F/MN	
MAX. RECORDED TEMP.		277 DEGF	
REFERENCE LOG		BAKER HUGHES BOND LOG	
REFERENCE LOG DATE		25-MAY-2015	
EQUIP. NO.	LOCATION	6685	GRAND JCT
RECORDED BY		W. QUIGLEY	
WITNESSED BY		MR. COLT STEWART	

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

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
4.5 IN	11.6 LB/F		0 FT	12714 FT

REMARKS

RUN 1 TRIP 1: ALL DATA ON THIS LOG IS DEPTH SHIFTED AND CORRELATED TO THE GAMMA-RAY CURVE ON BAKER HUGHES BOND LOG DATED 25-MAY-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 = 277 degF

THANK YOU FOR CHOOSING BAKER HUGHES WIRELINE SERVICES
CREW: OLSON/MOORE/QUIGLEY
RIG: H&P 318

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	PCM	8250EA	15100	FREE
1	1	TEL/CCL	8248EA	150623	FREE
1	1	GR	8262XA	10317216	FREE
1	1	RPM	8281EA	10273848	FREE
1	1	RPM	8283PA	10169251	FREE
1	1	RPM	8281FA	10307727	FREE
1	1	TEMP	8255XA	176973	FREE

MAIN SECTION PNC-3D MODE

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

Updates: 1 Patches: 7

Plotted: Mon May 25 23:23:21 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH096703/n353a02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 8277.500 ft BOTTOM DEPTH: 12718.000 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	"	"
	CASING SIZE	4.50	in	"	"
	MATRIX	SANDSTONE		"	"
	CORRECTION BUFFER	11		"	"

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH096703/n353a03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 7092.250 ft BOTTOM DEPTH: 8408.750 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	"	"
	CASING SIZE	4.50	in	"	"
	MATRIX	SANDSTONE		"	"
	CORRECTION BUFFER	11		"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
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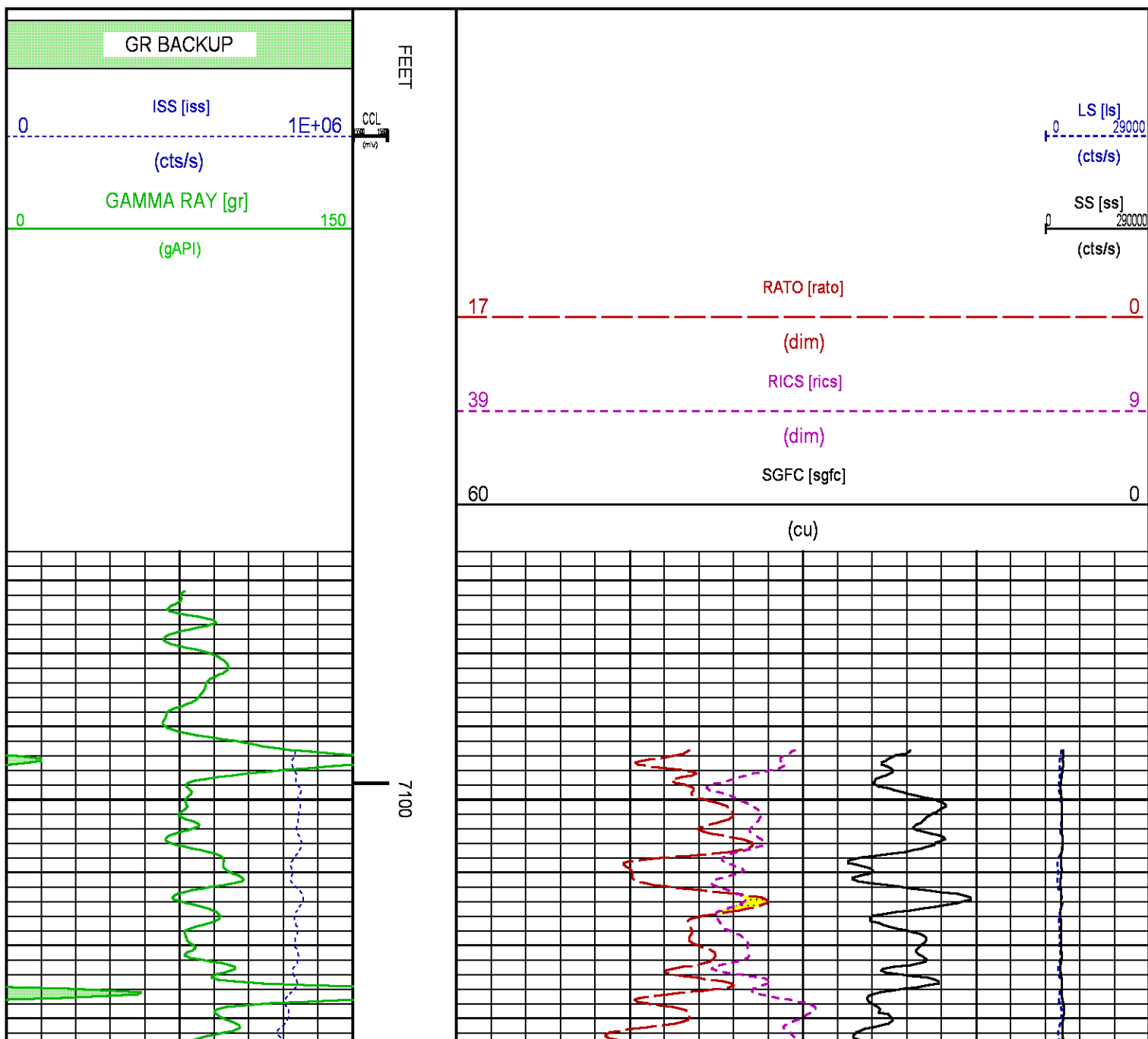
F1:CCL	May 25 21:39:57 2015	CASING COLLAR LOCATOR
F1:GR	May 25 21:39:57 2015	GAMMA RAY
F1:ISS	May 25 21:39:57 2015	INELASTIC SHORT SPACE COUNT RATE
F1:LS	May 25 21:39:57 2015	LONG SPACE COUNT RATE
F1:RATO	May 25 21:39:57 2015	SHORT/LONG SPACE COUNT RATE RATIO
F1:RICS	May 25 21:39:57 2015	SHORT SPACE INELASTIC TO CAPTURE COUNT RATE RATIO (ISS/CSS)
F1:SGFC	May 25 21:39:57 2015	CORRECTED FORMATION SIGMA
F1:SS	May 25 21:39:57 2015	SHORT SPACE COUNT RATE

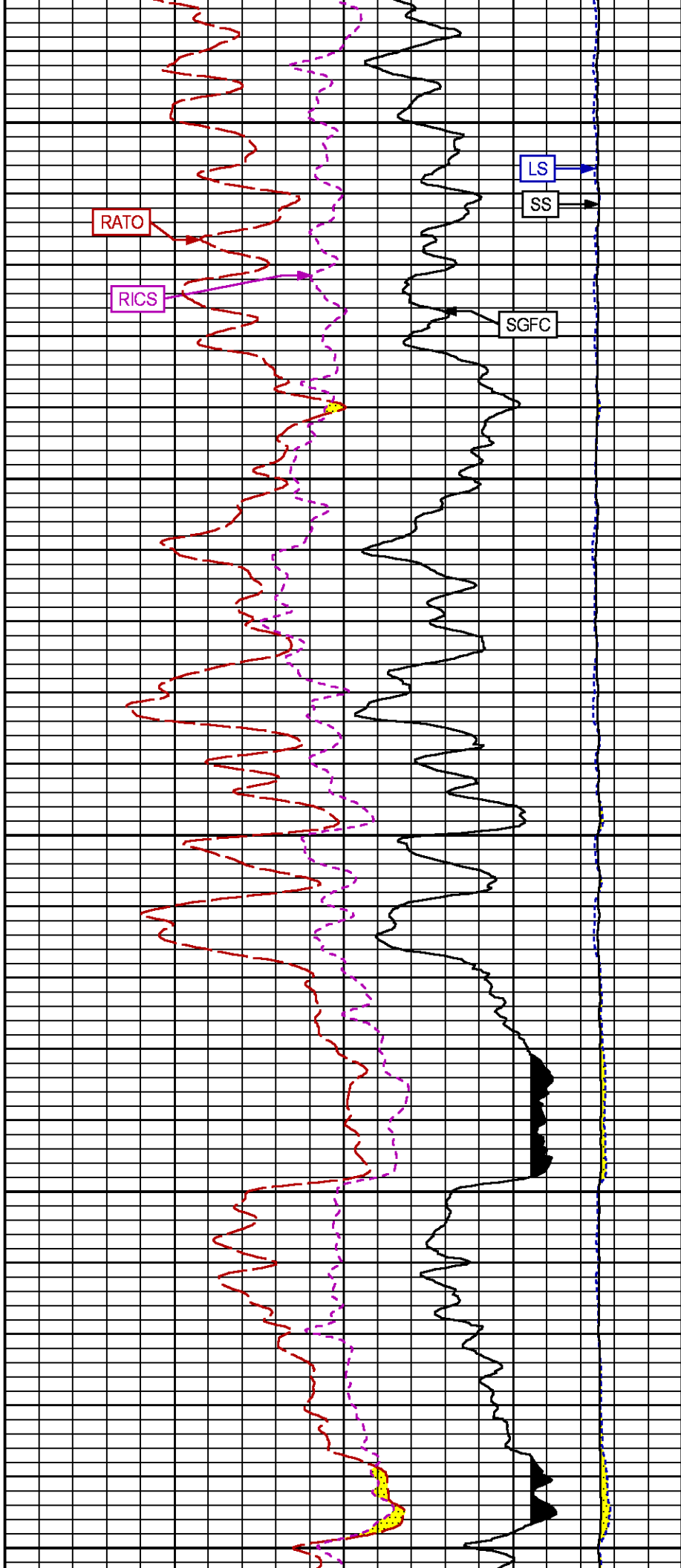
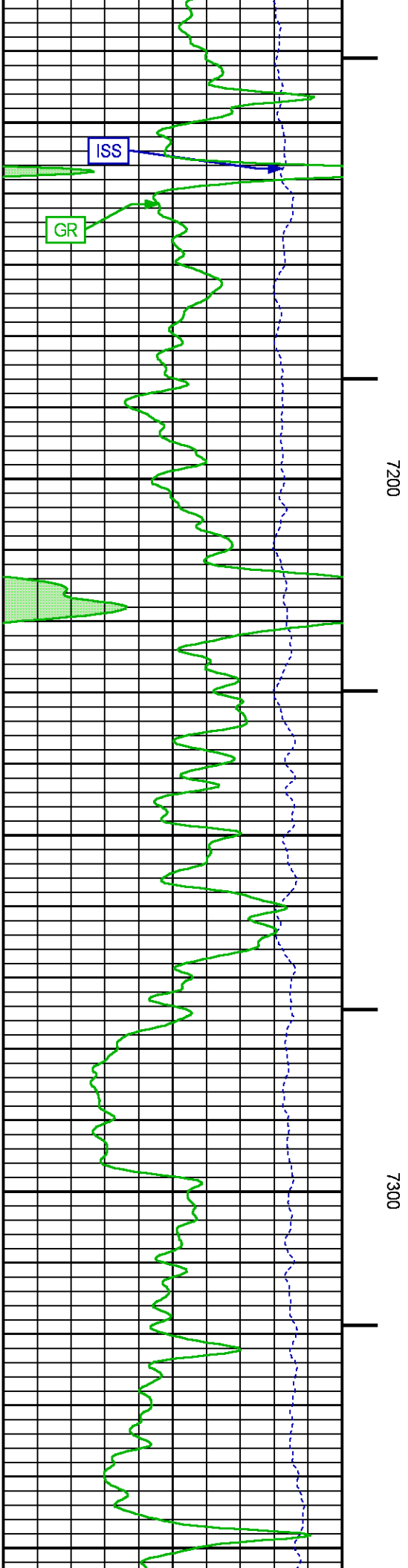
CURVE MEASURE POINT OFFSET

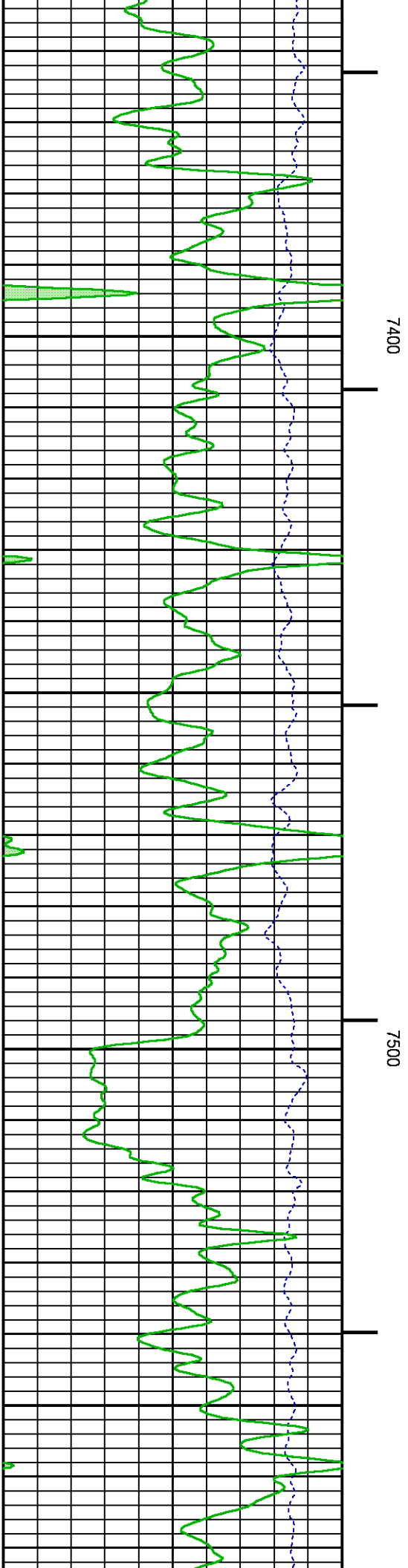
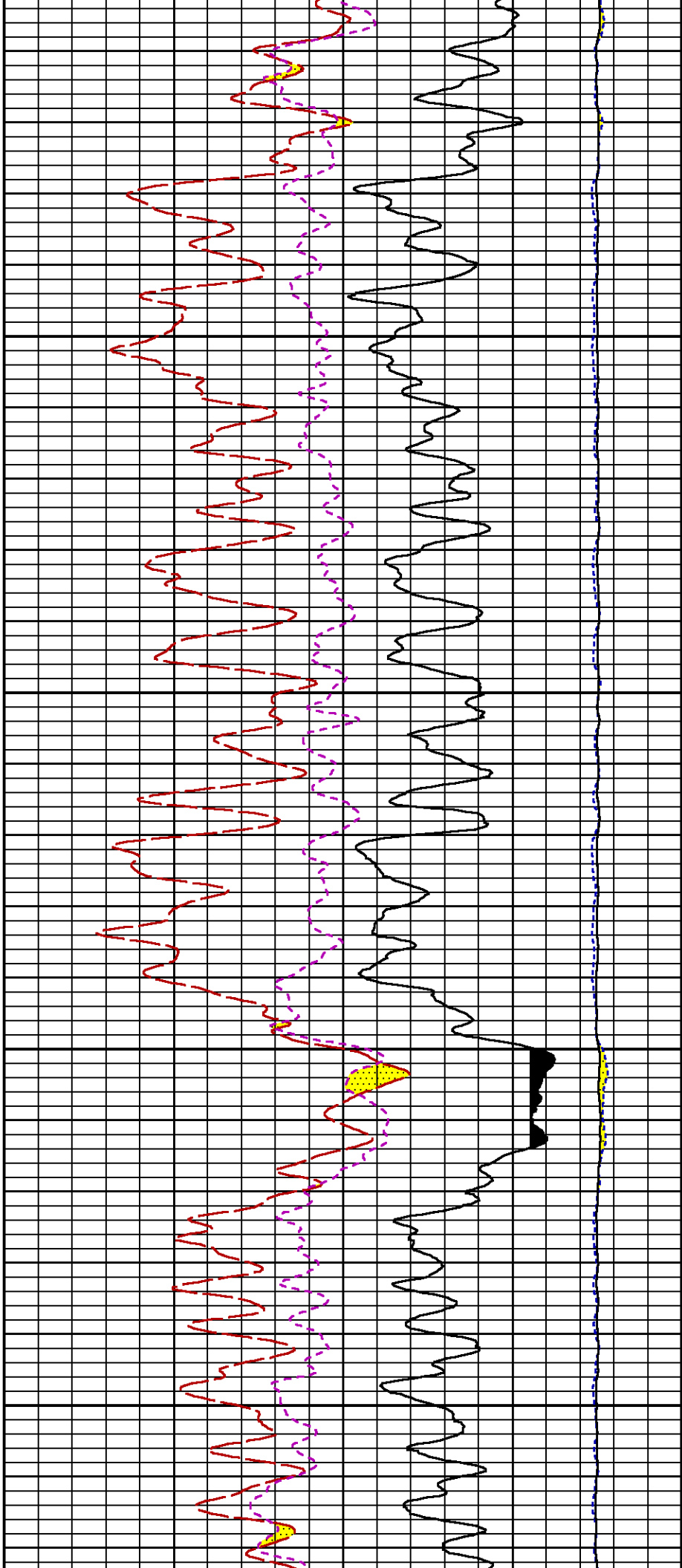
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GR	23.00	LS	12.75	RICS	12.75	SS	12.75

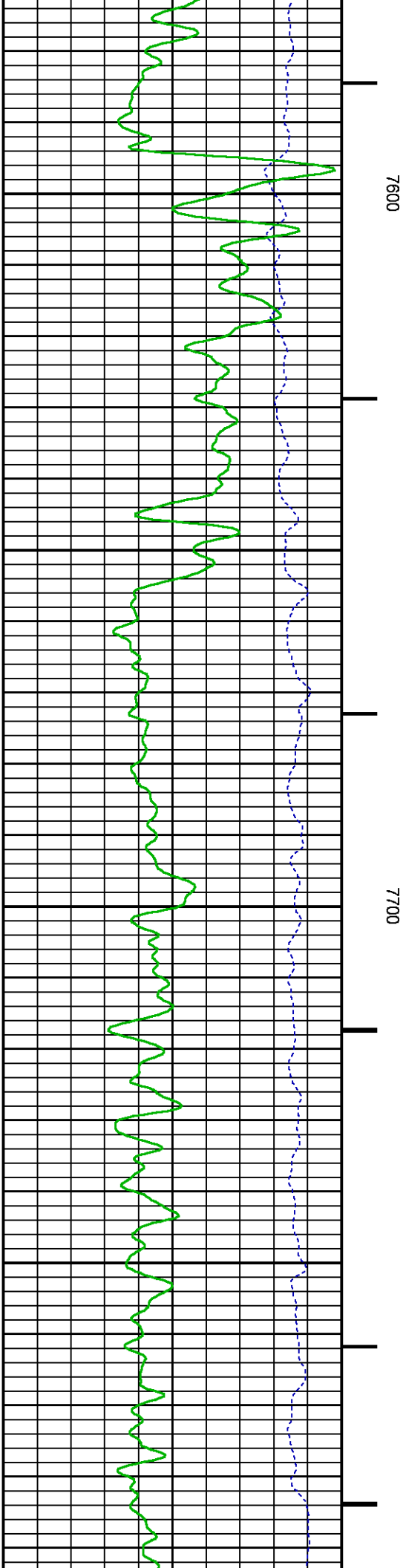
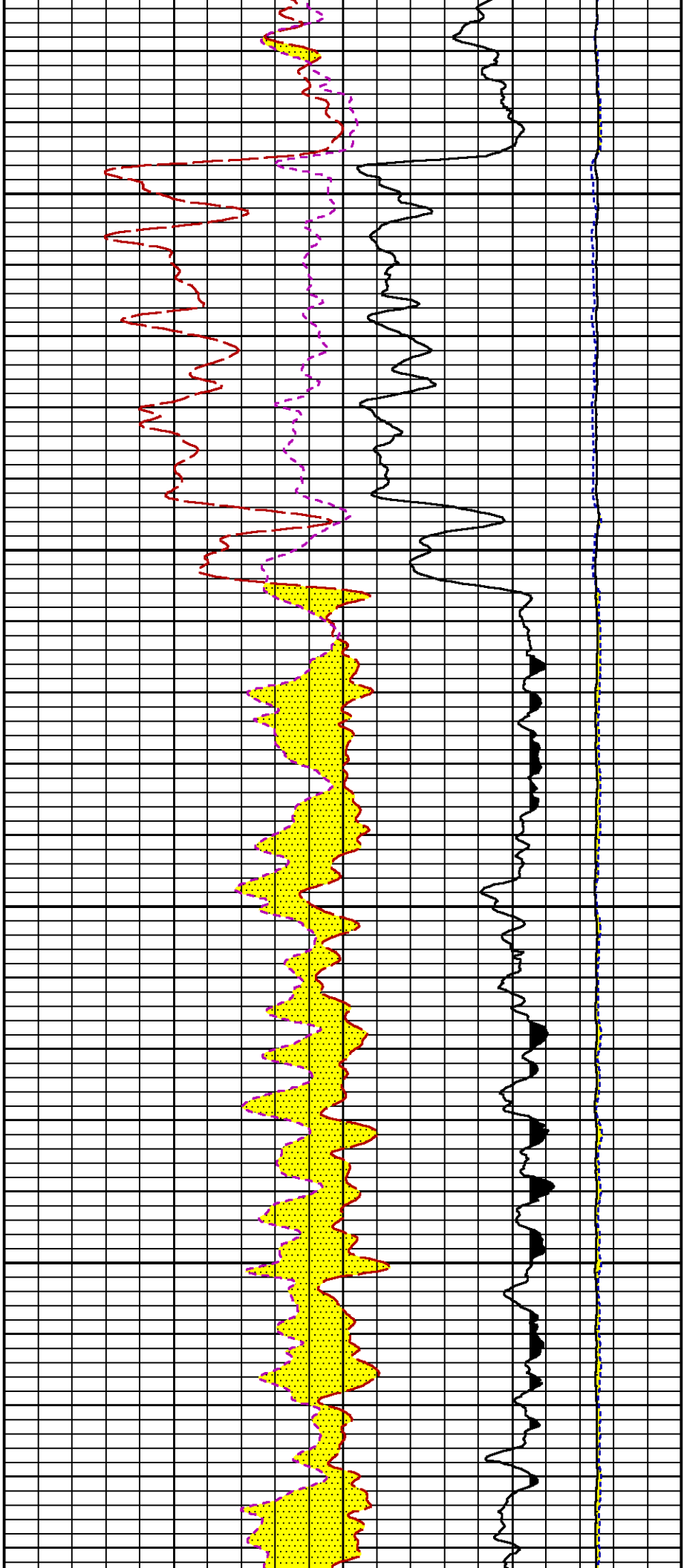
Presentation : cas6685:/dat1a/CH096703/RPM_MAIN.fvpdf [5"/100' Scale]
Plot Interval : 7066.5 - 12719 Feet

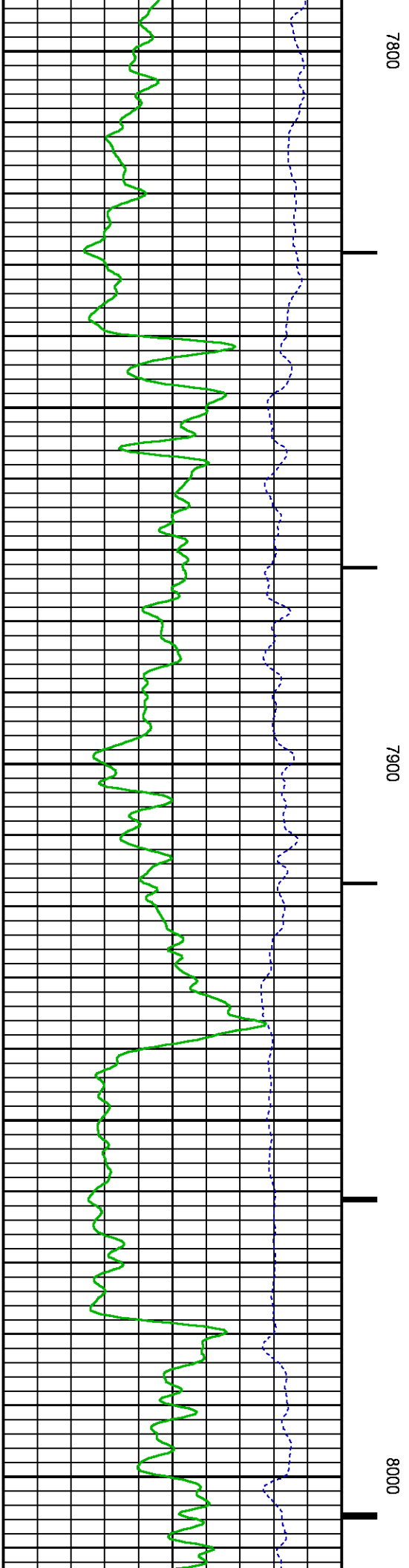
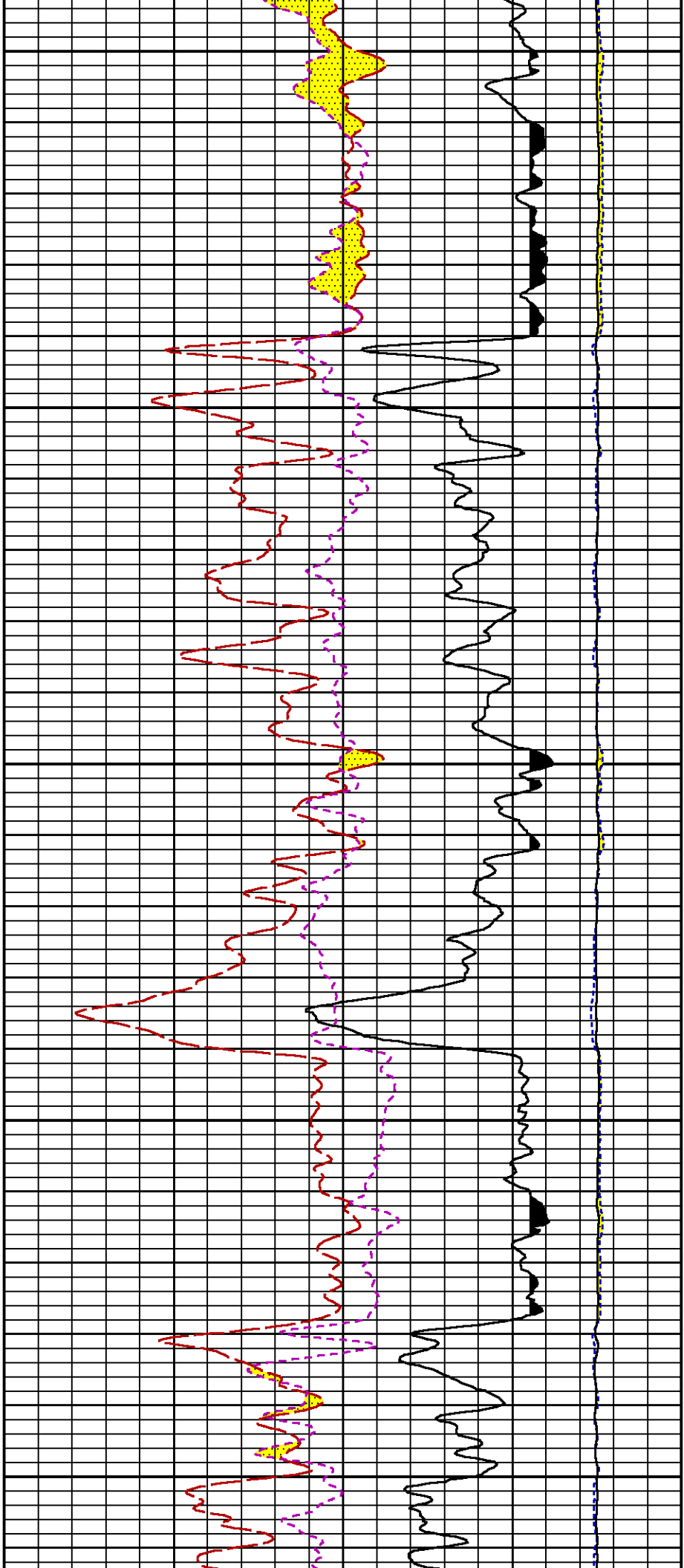
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Created On : May 25 16:53:00 2015
Company : WPX ENERGY
Well : FEDERAL RGU 313-25-198
Field : SULPHUR CREEK
File Interval : 7066.5 - 12719 Feet
OCT : n353a

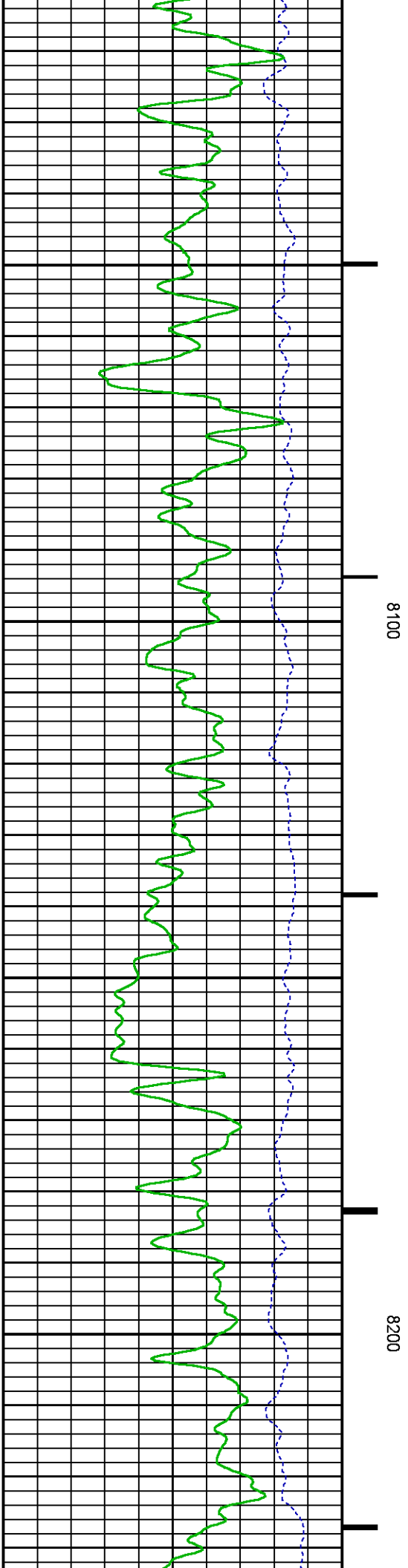
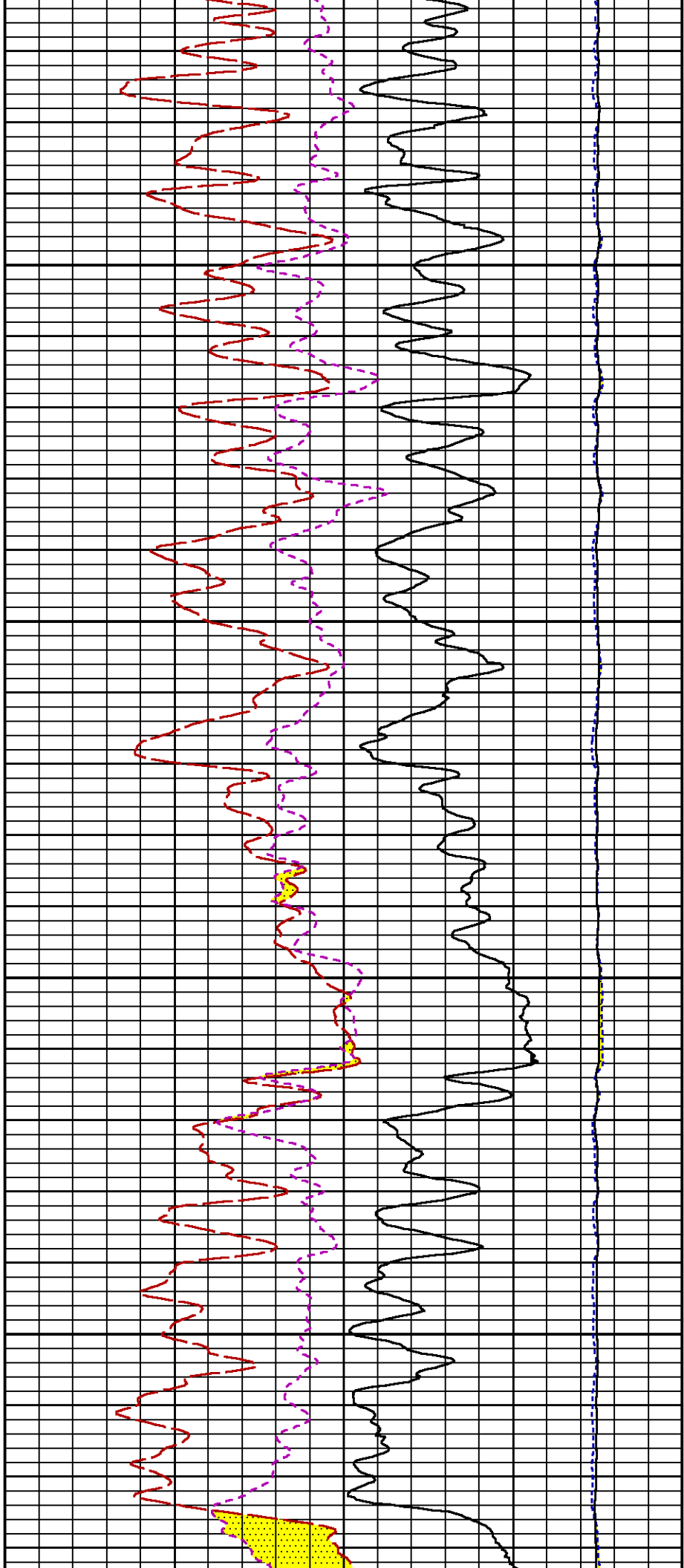


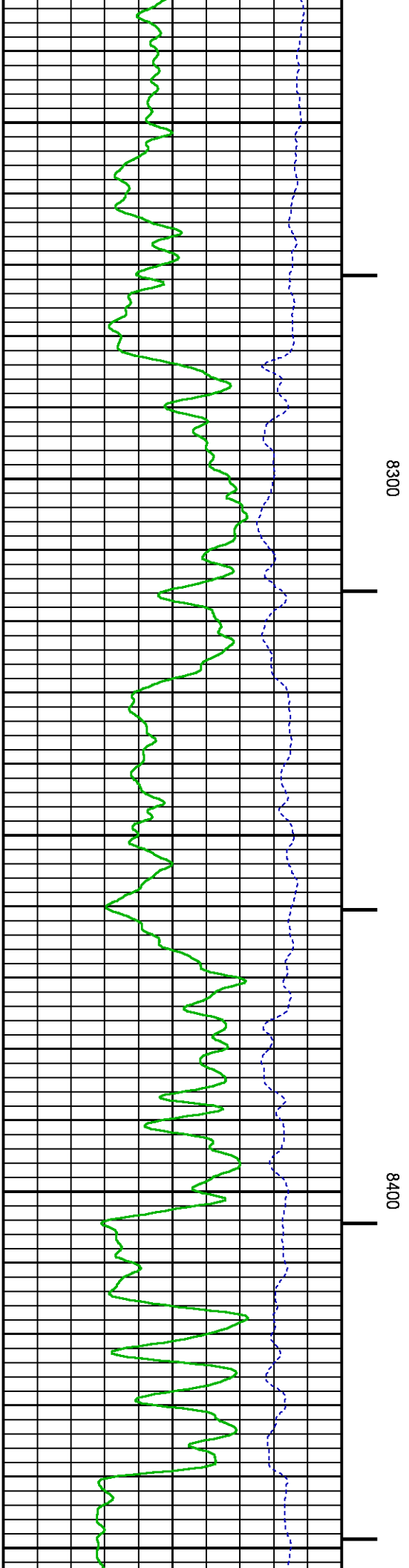
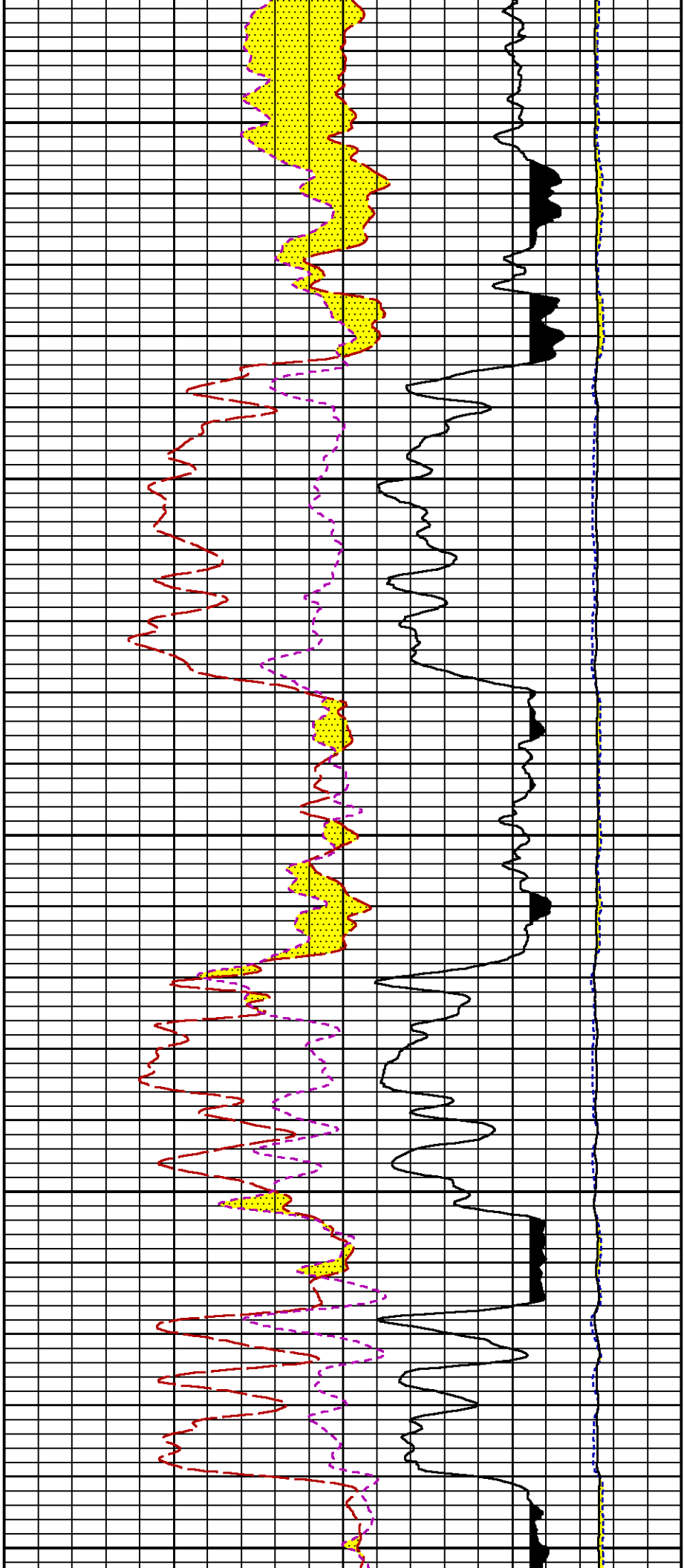


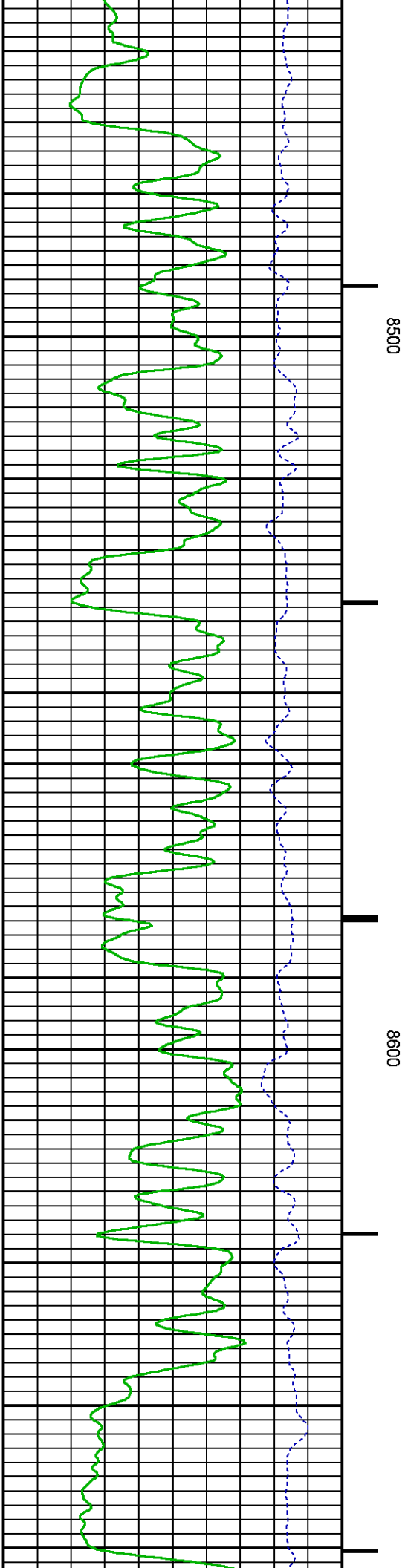
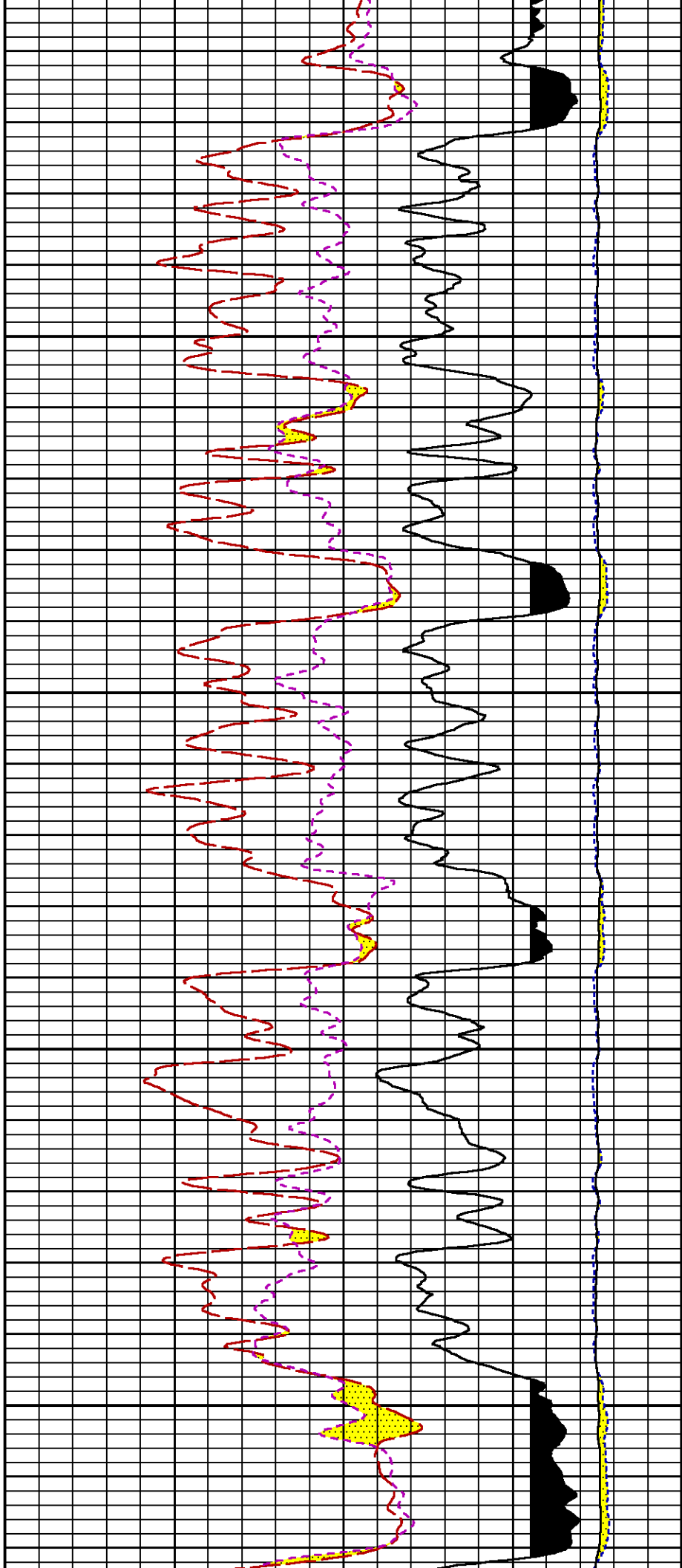


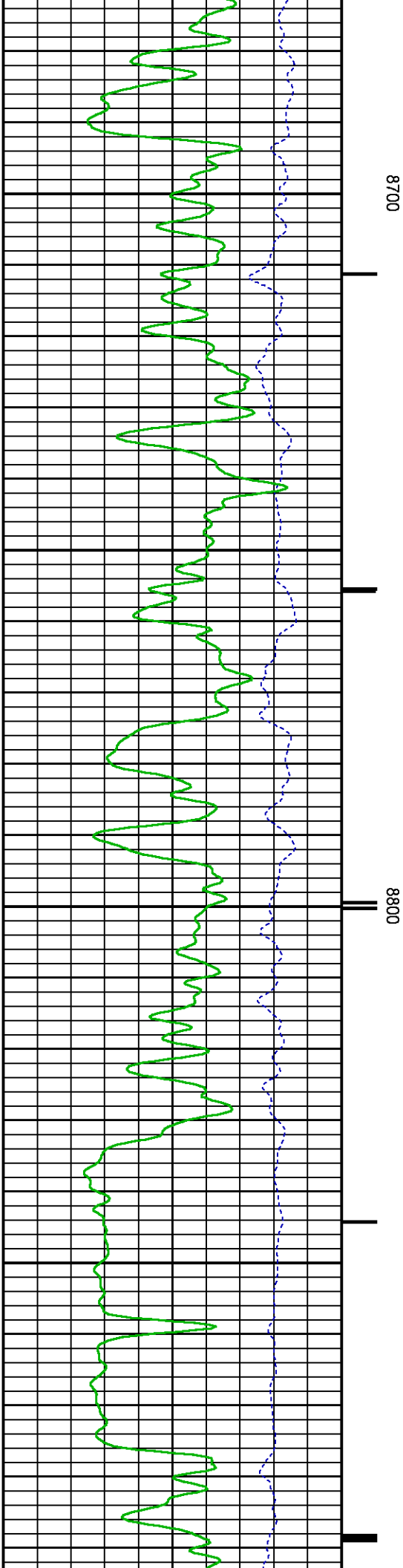
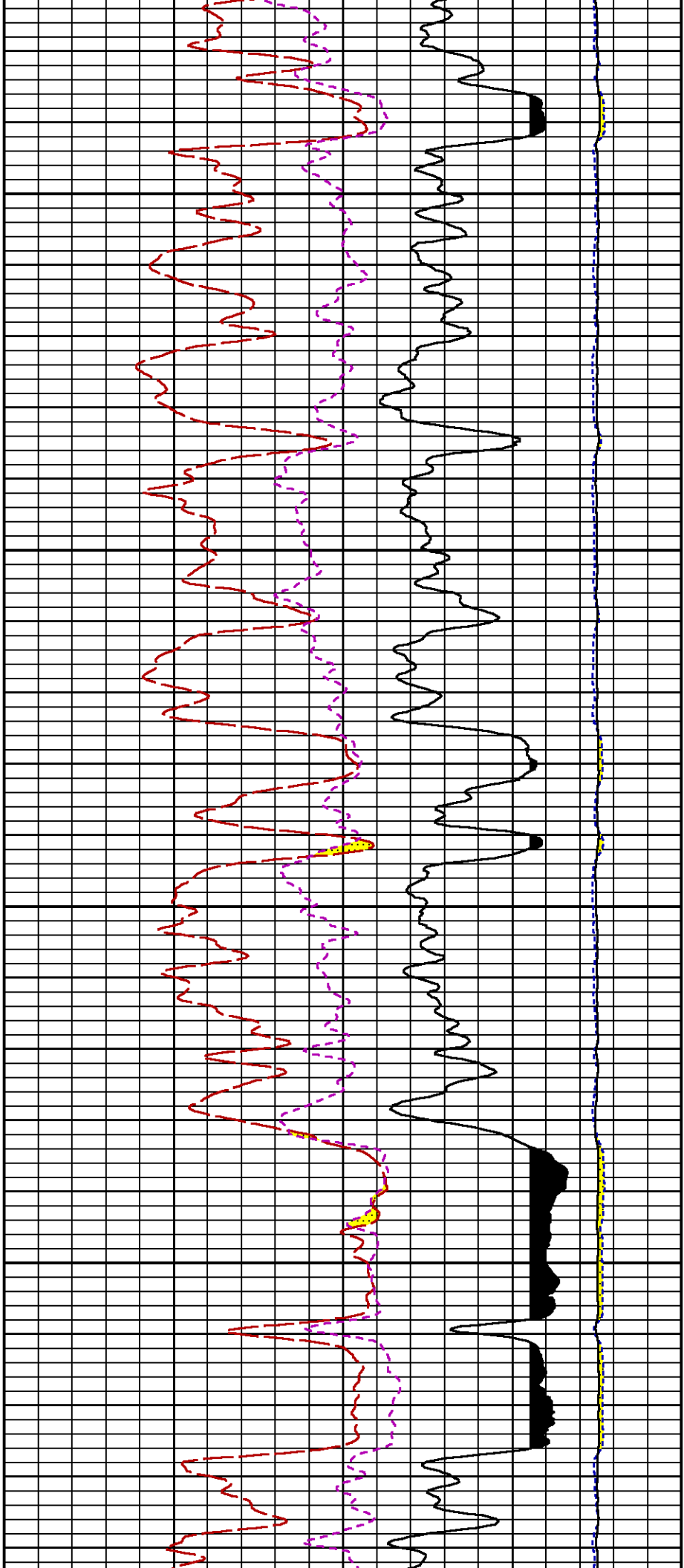


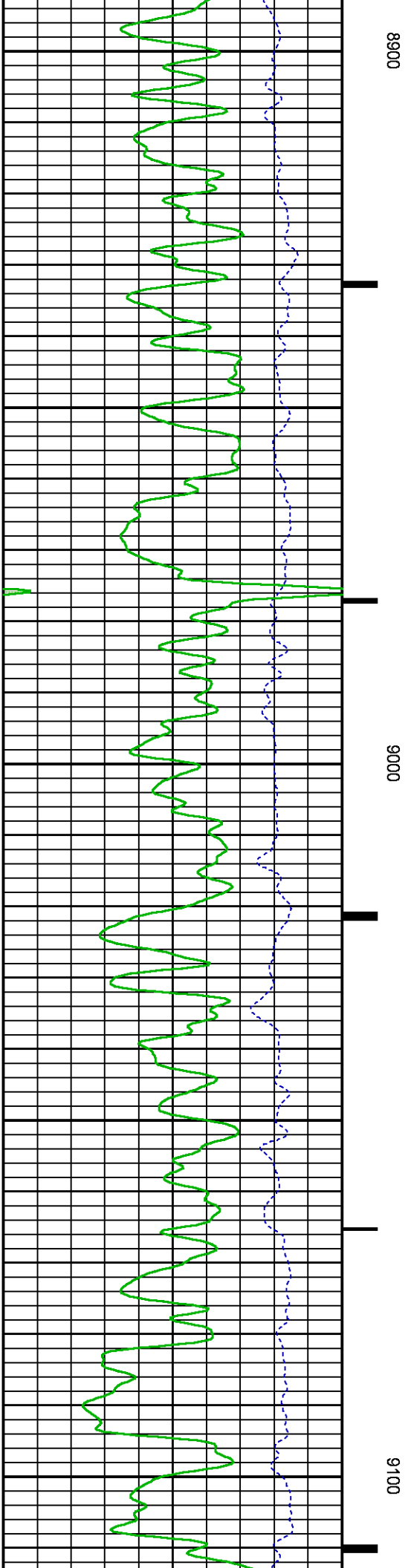
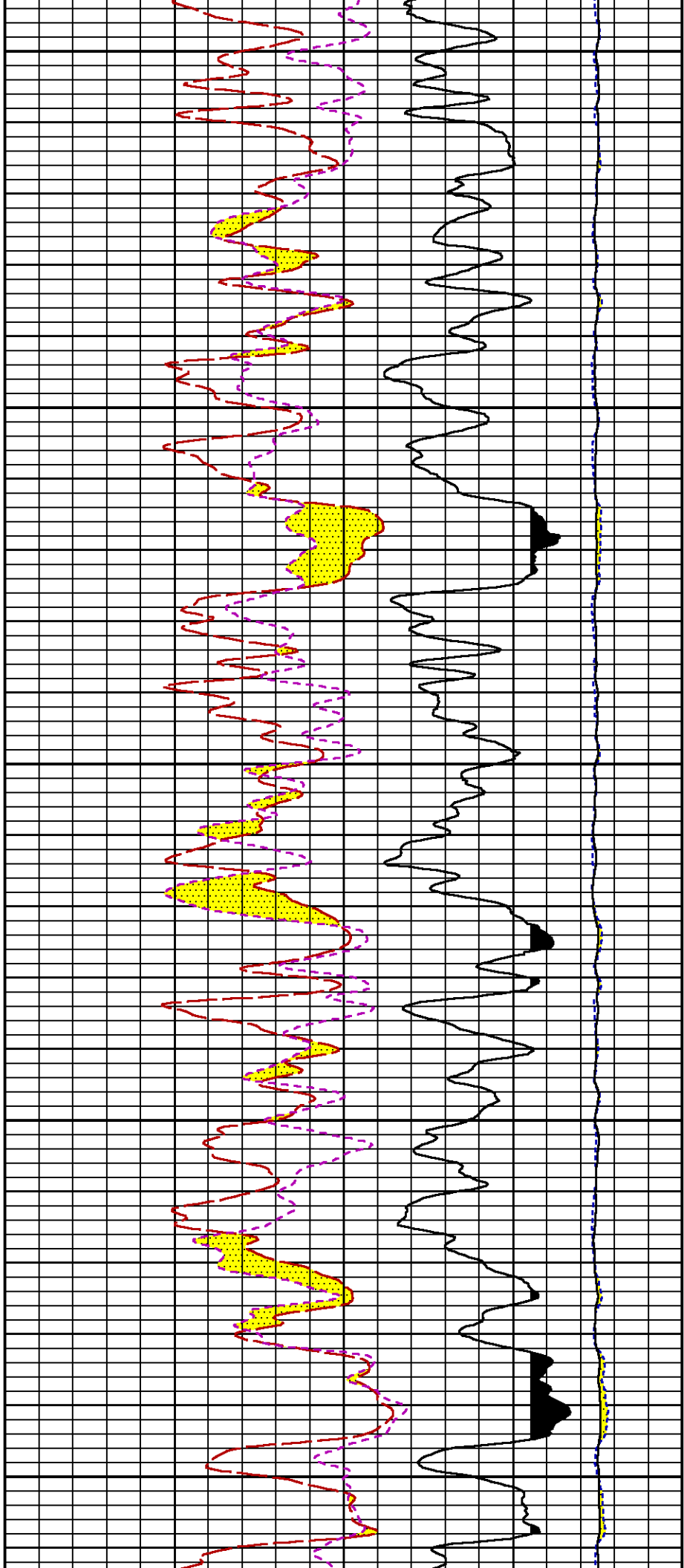


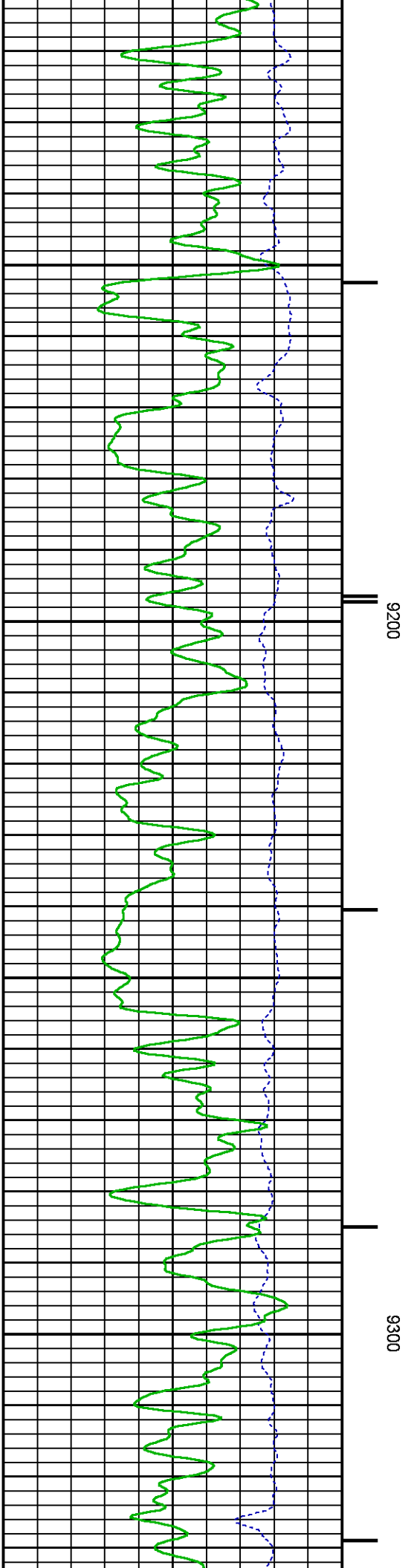
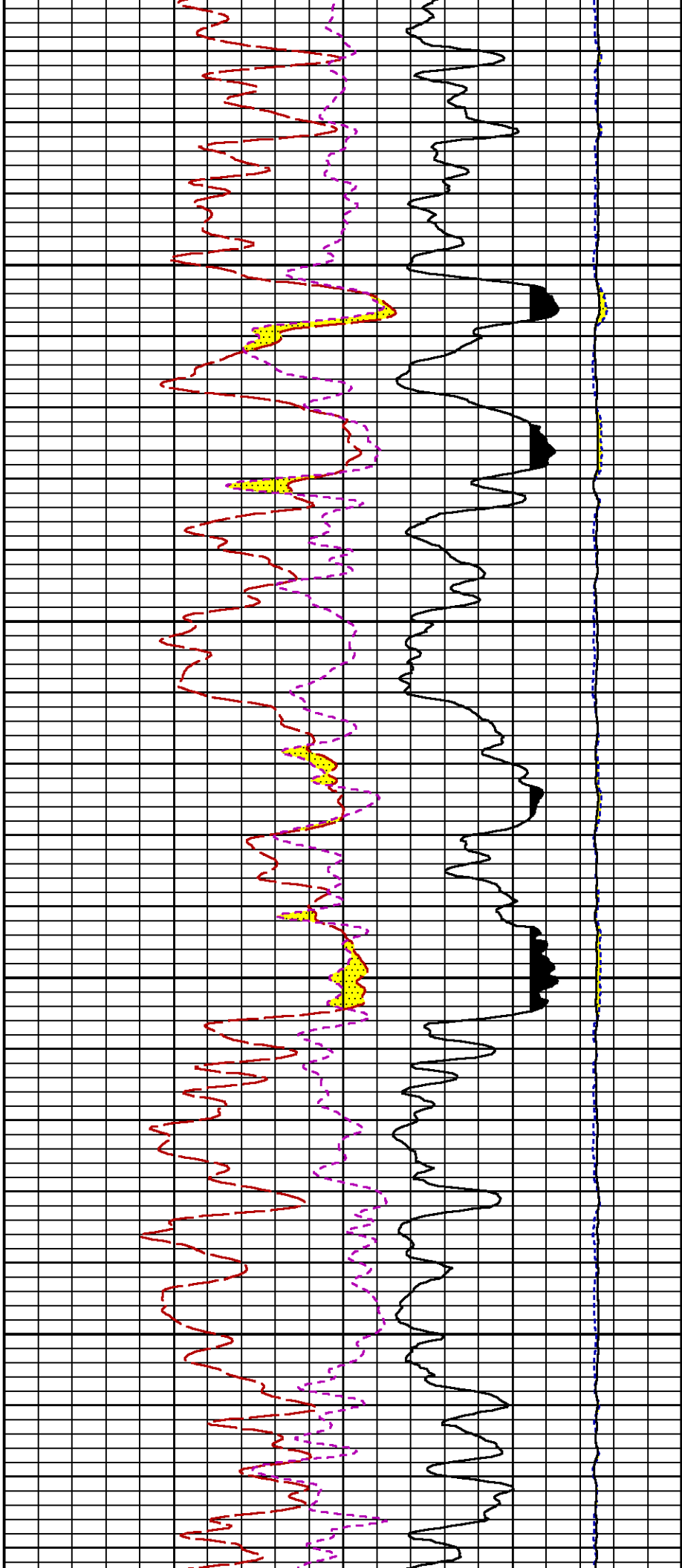


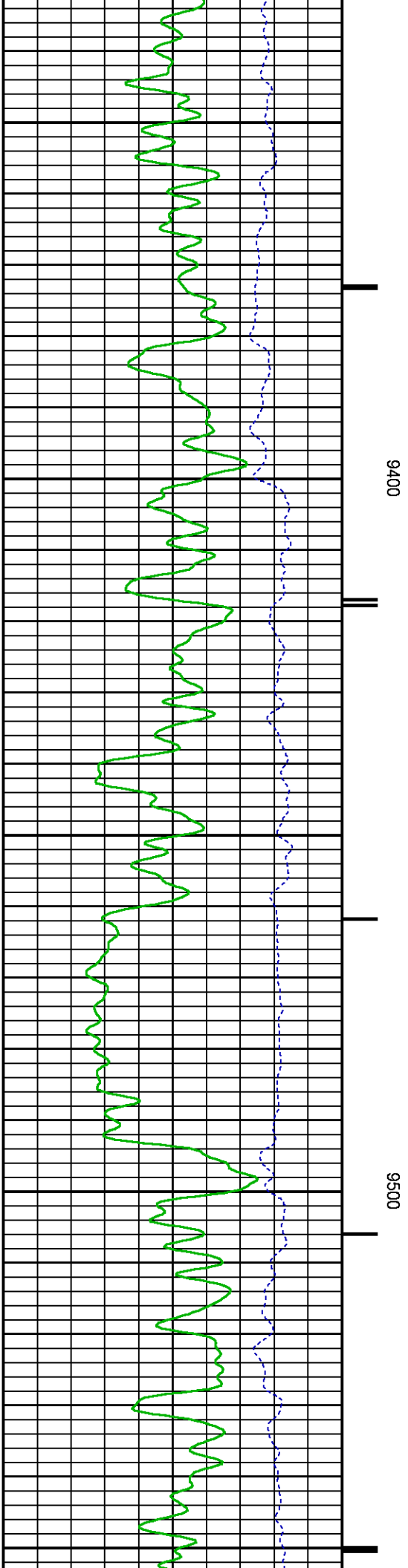
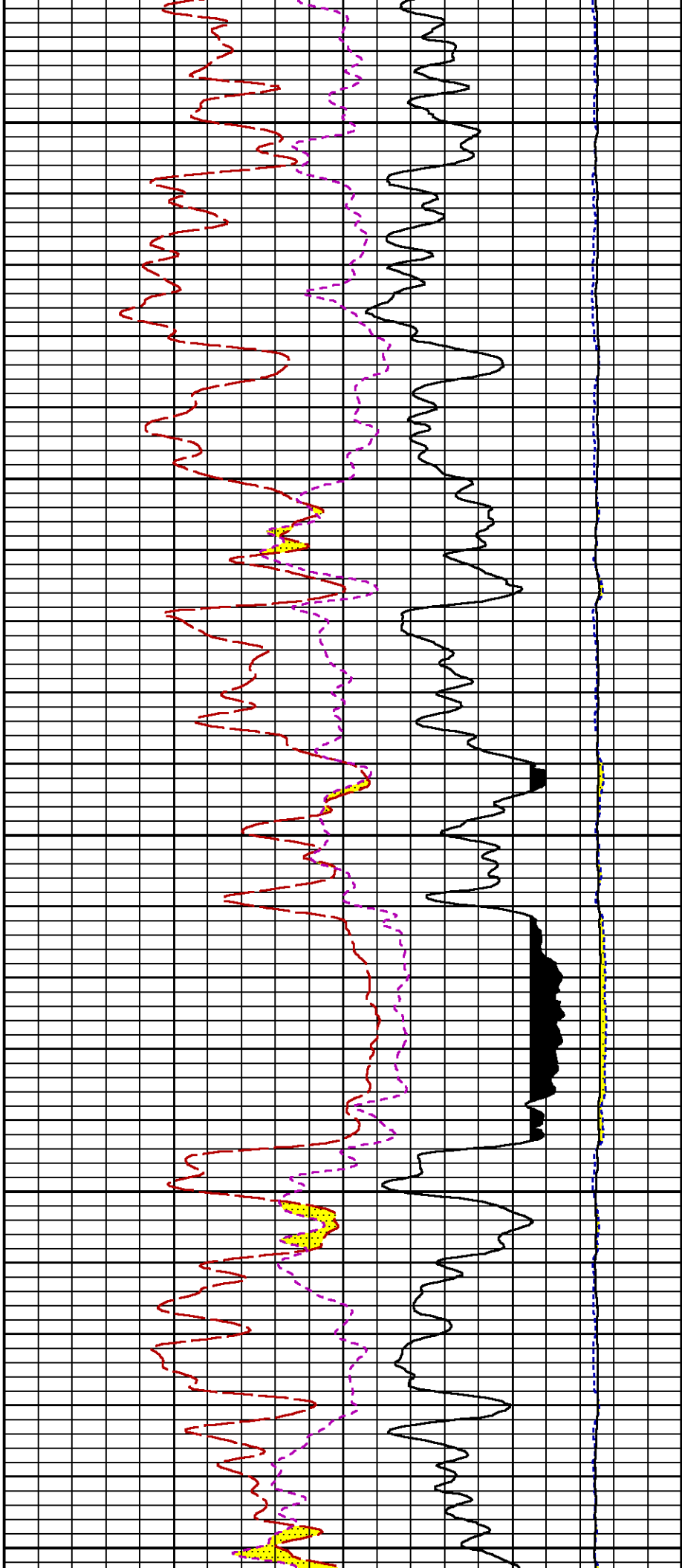


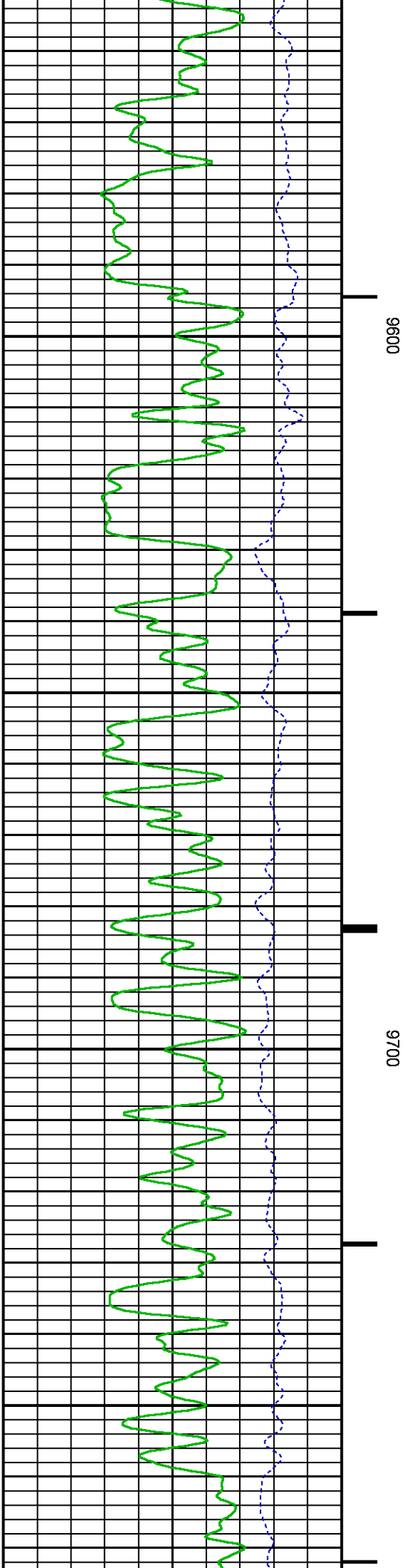
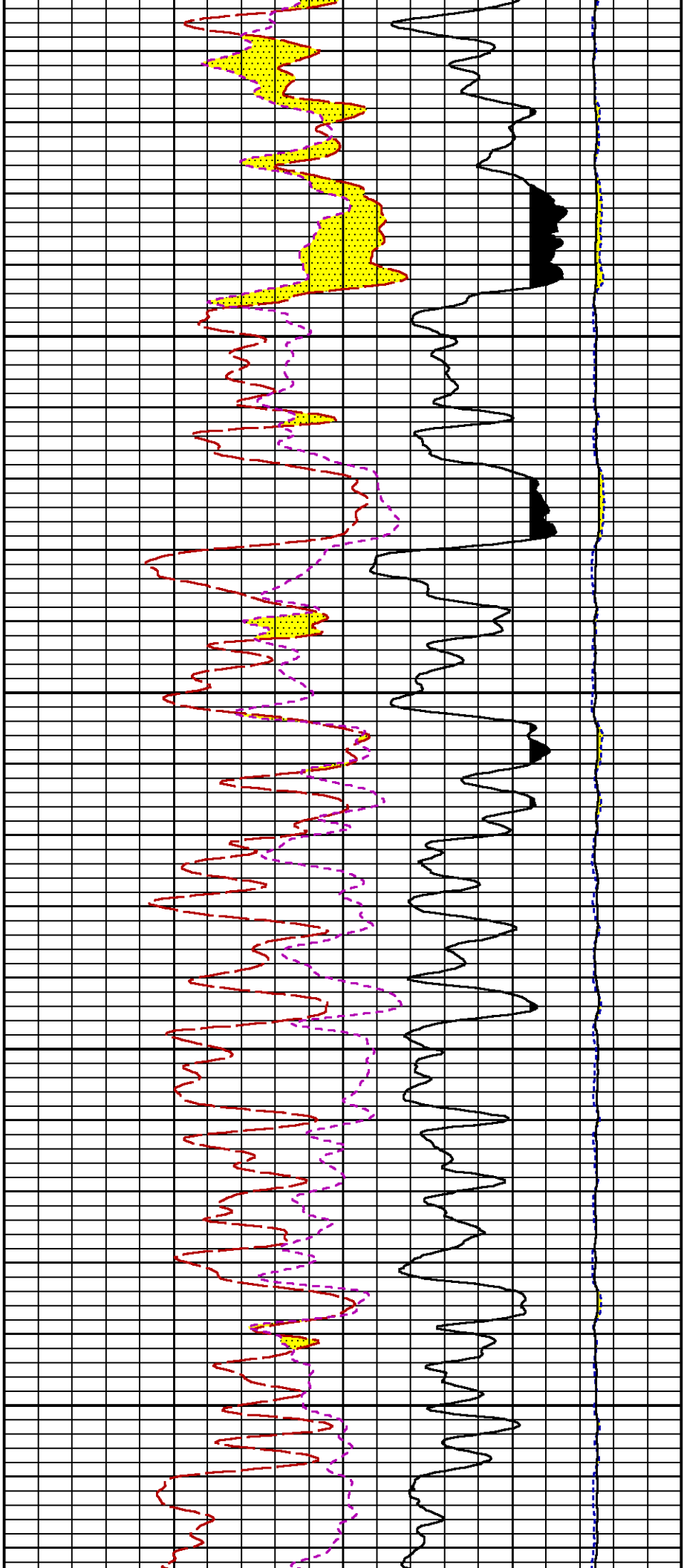






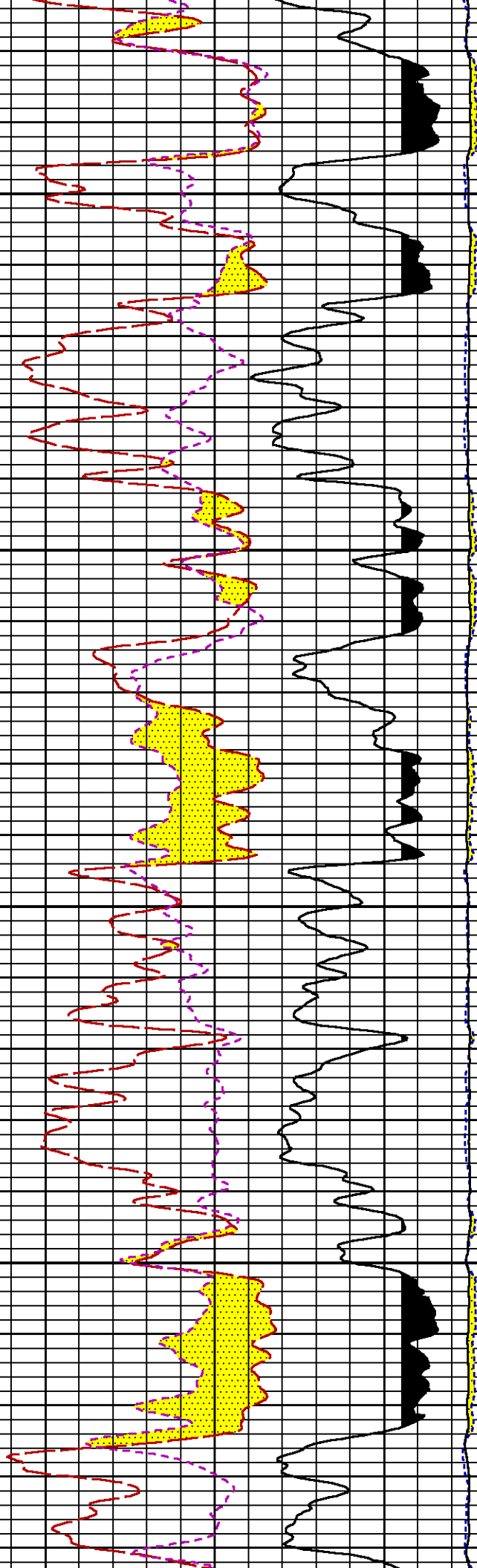
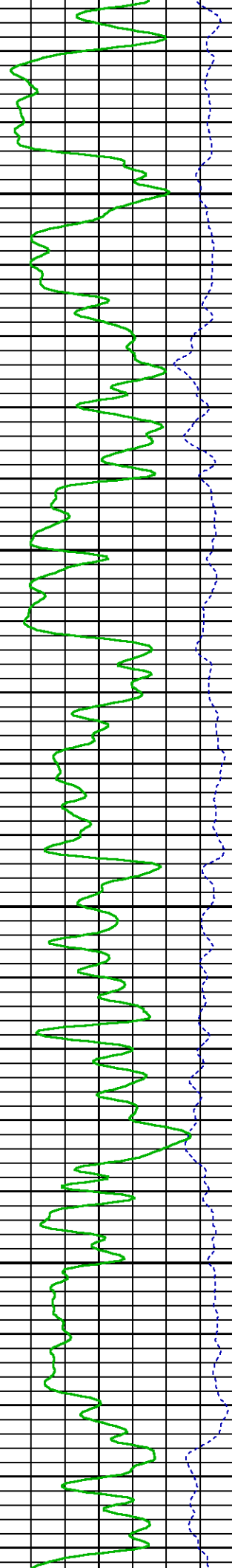


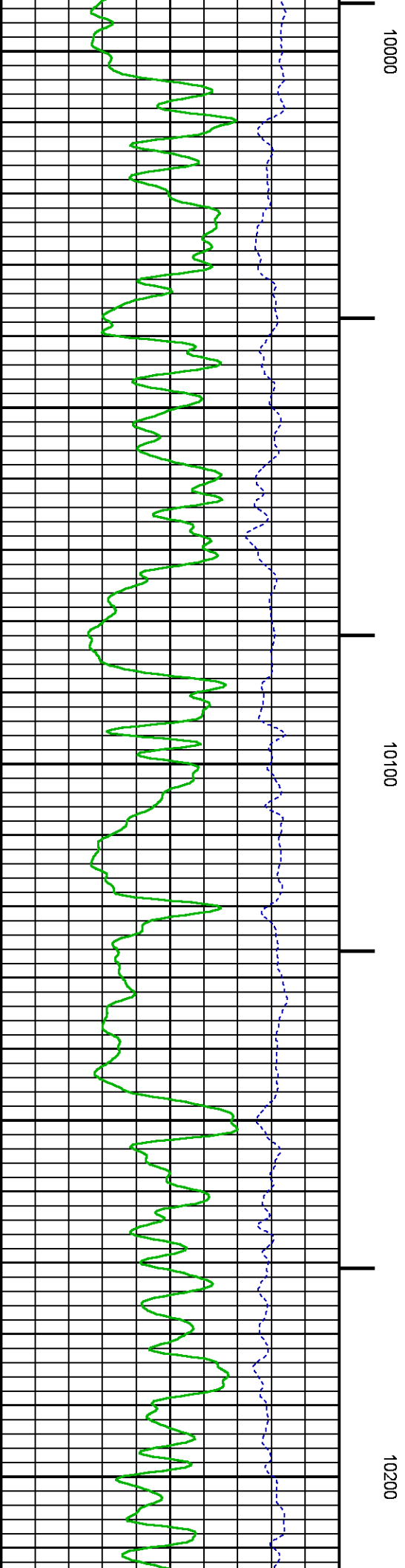
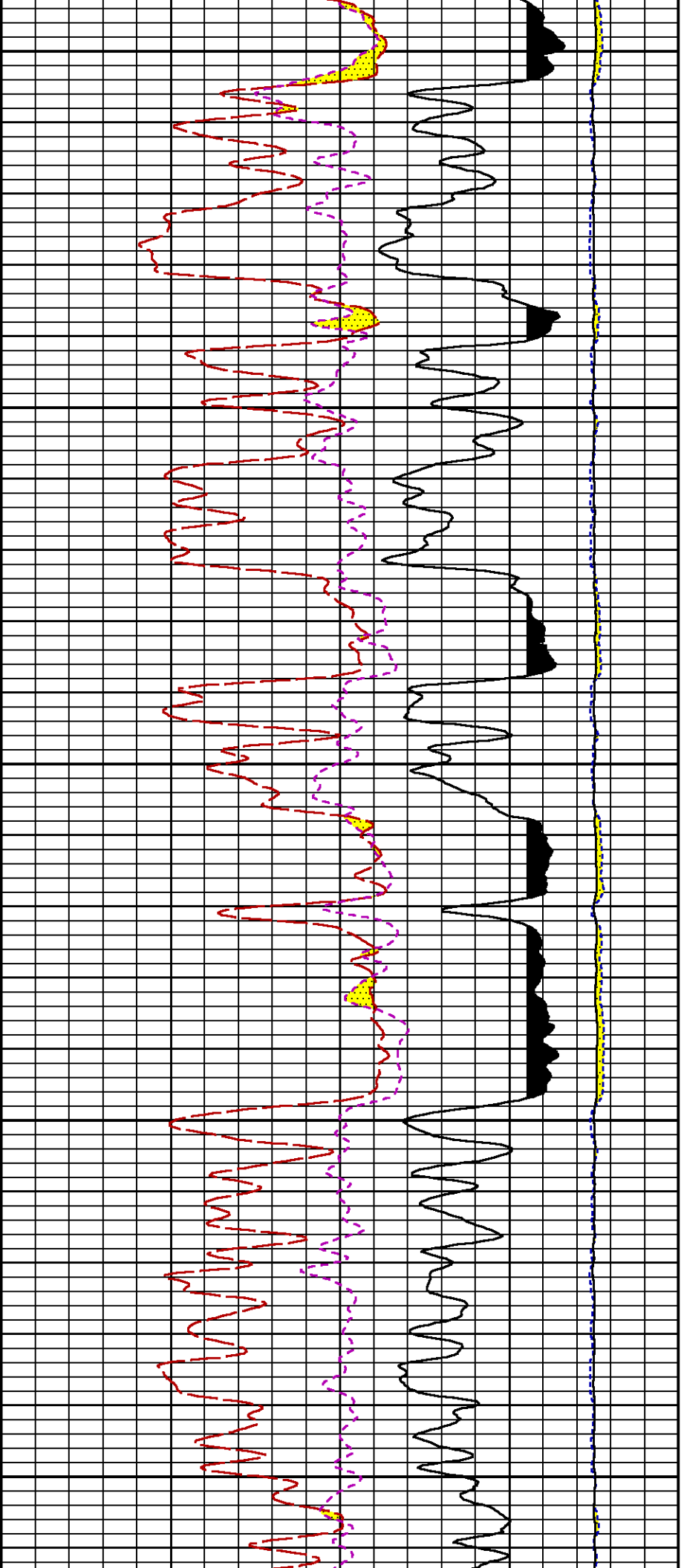


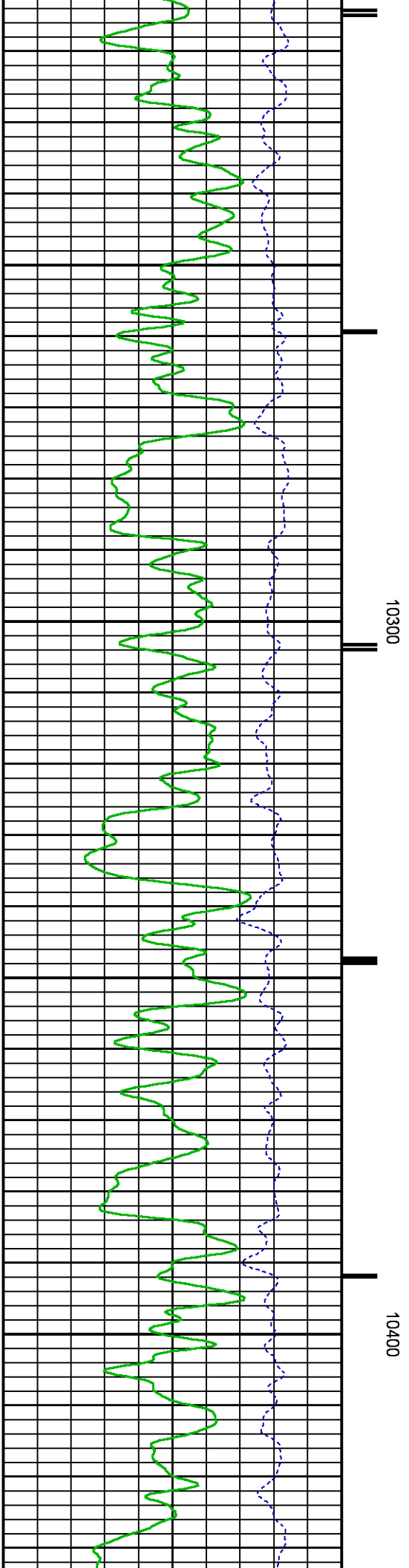
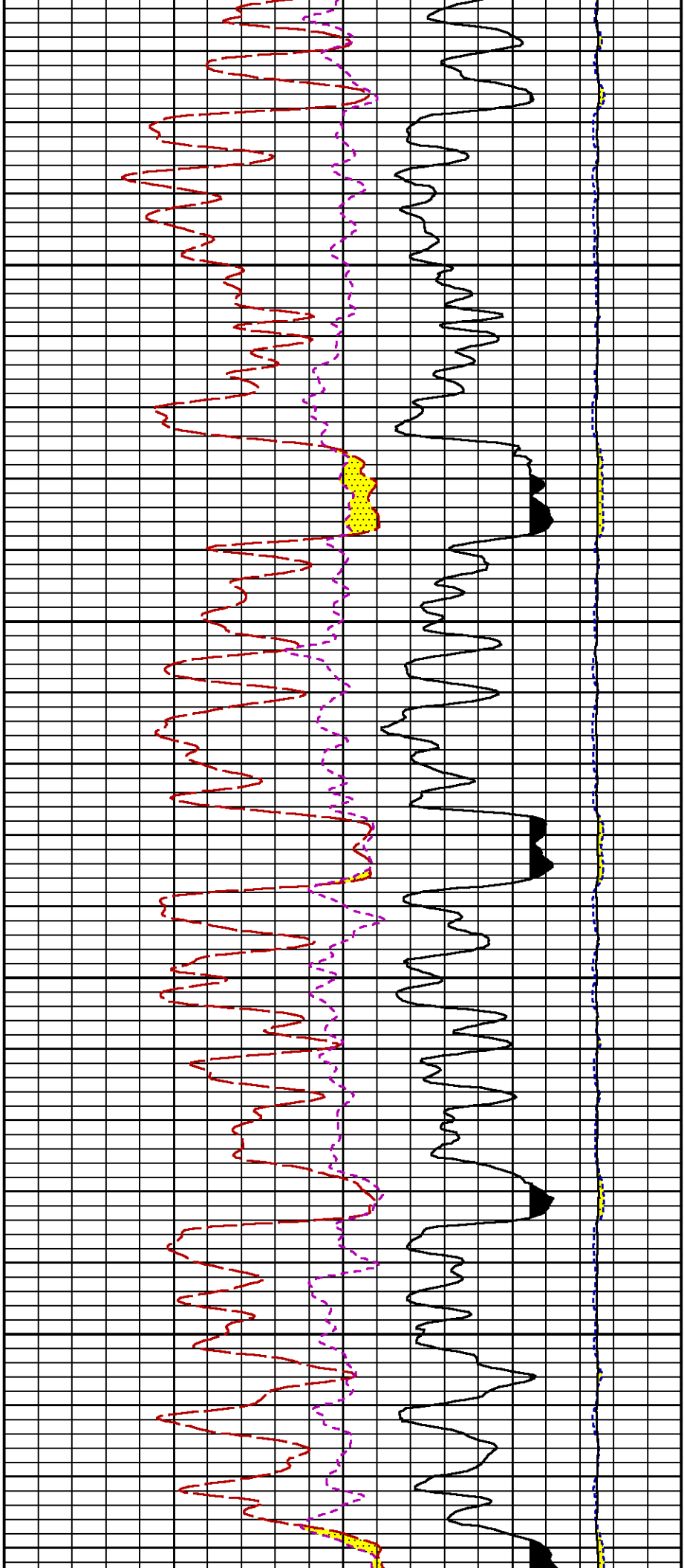


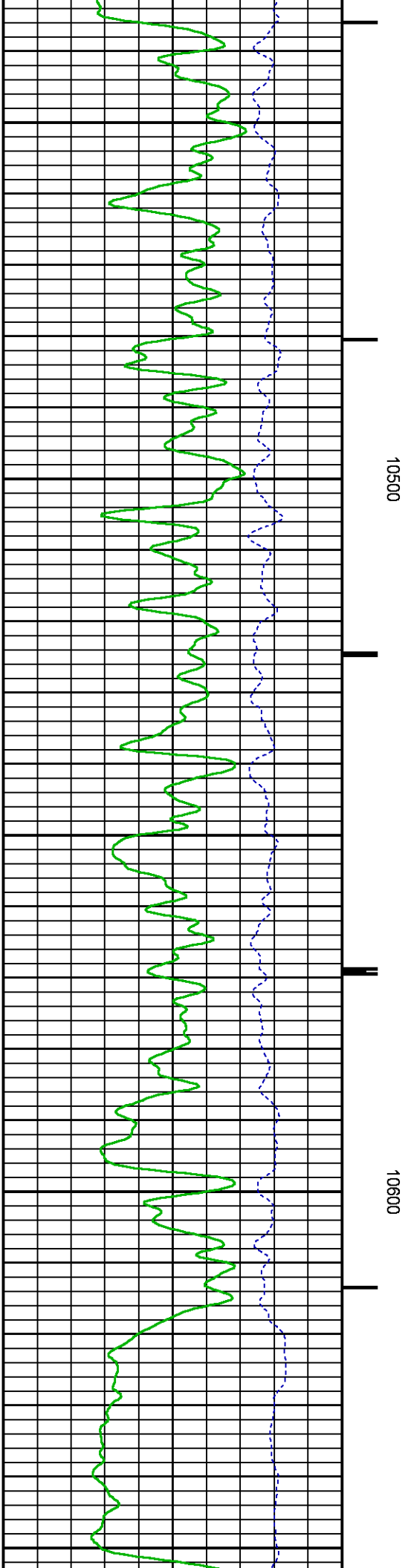
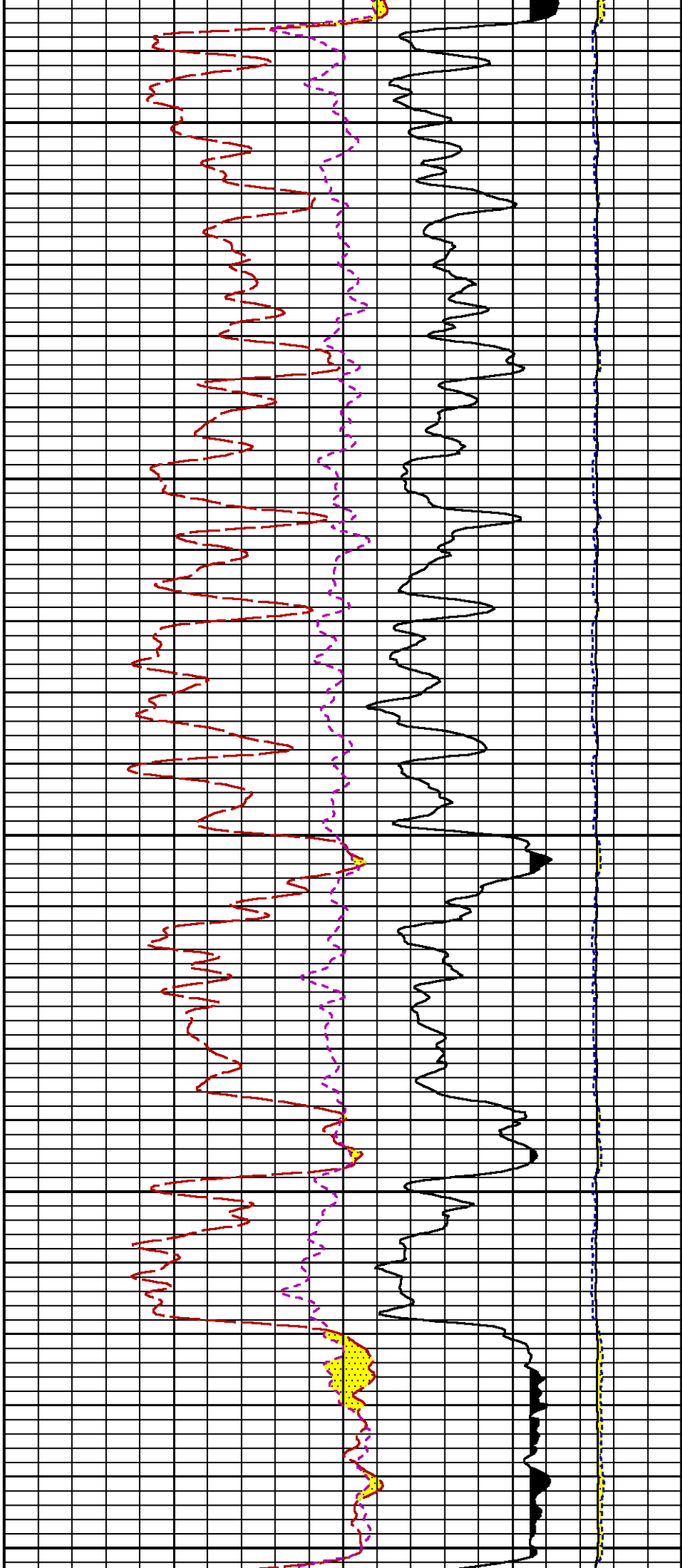
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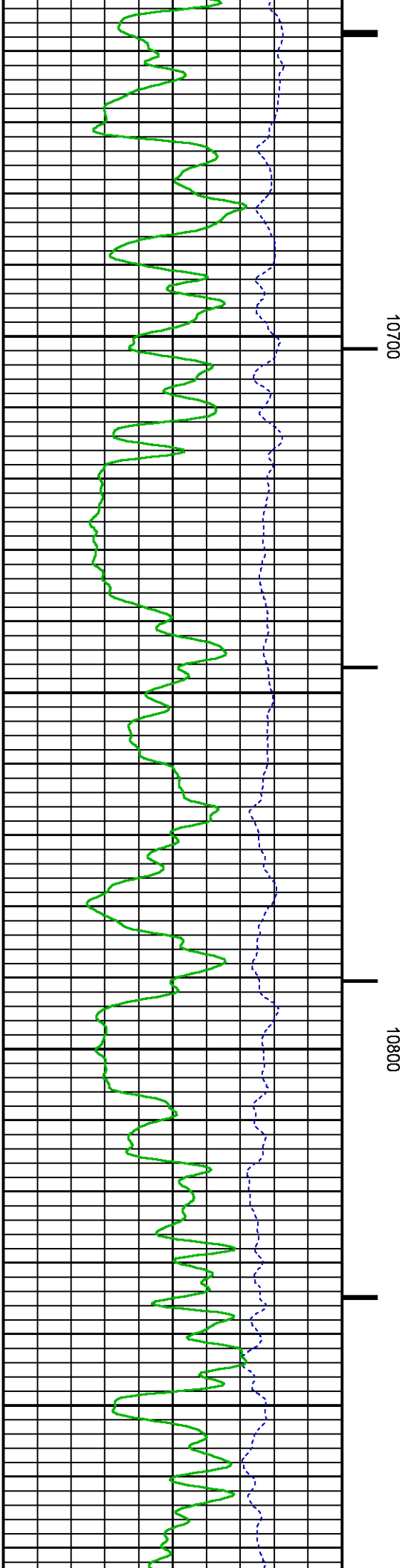
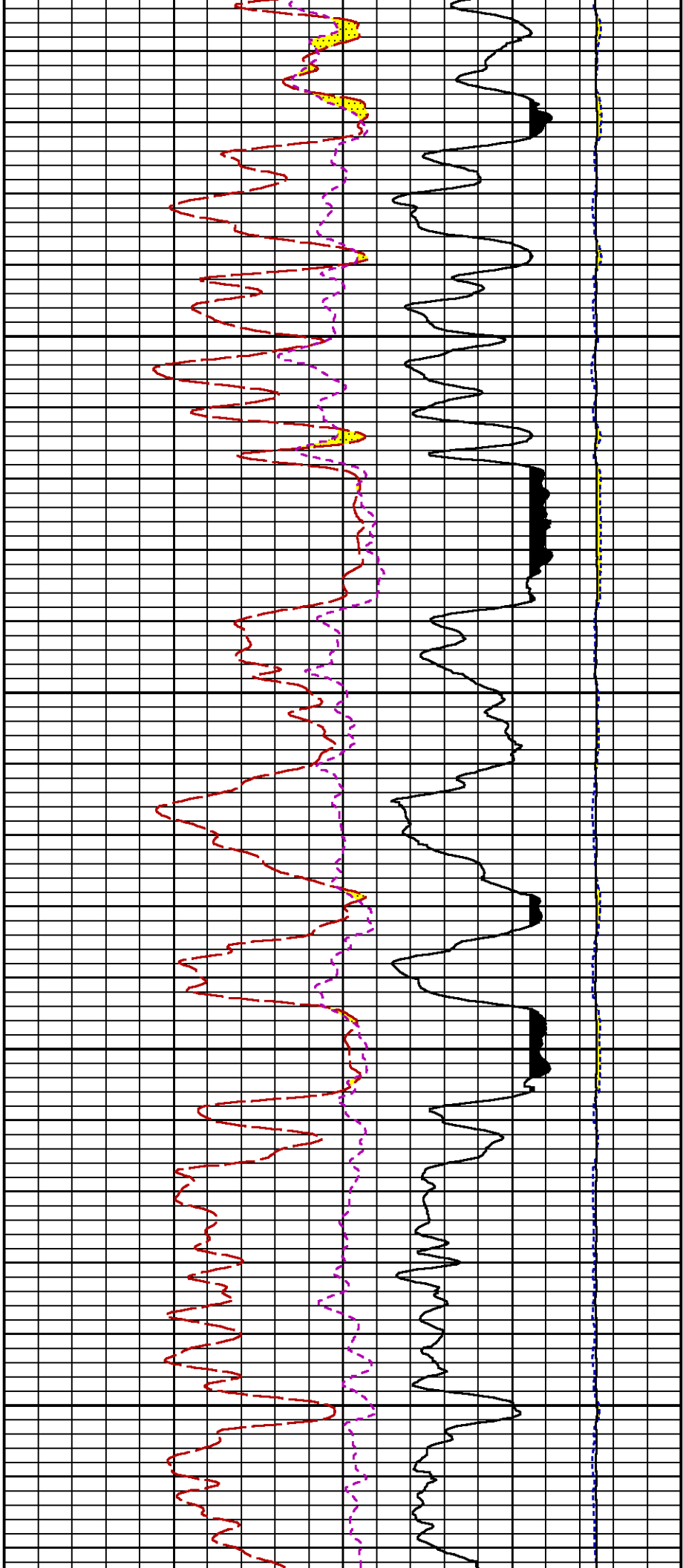
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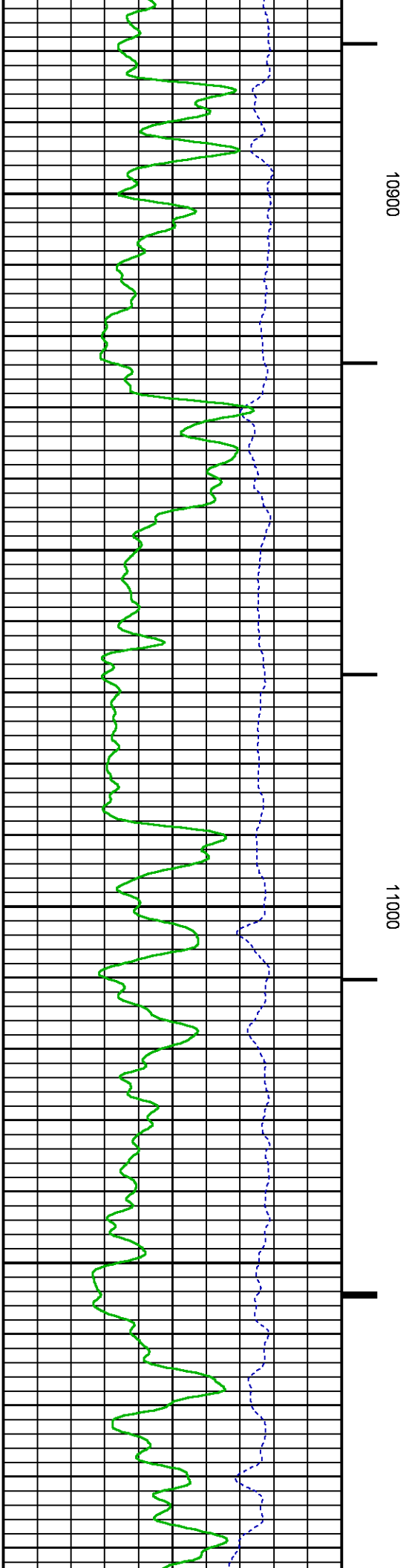
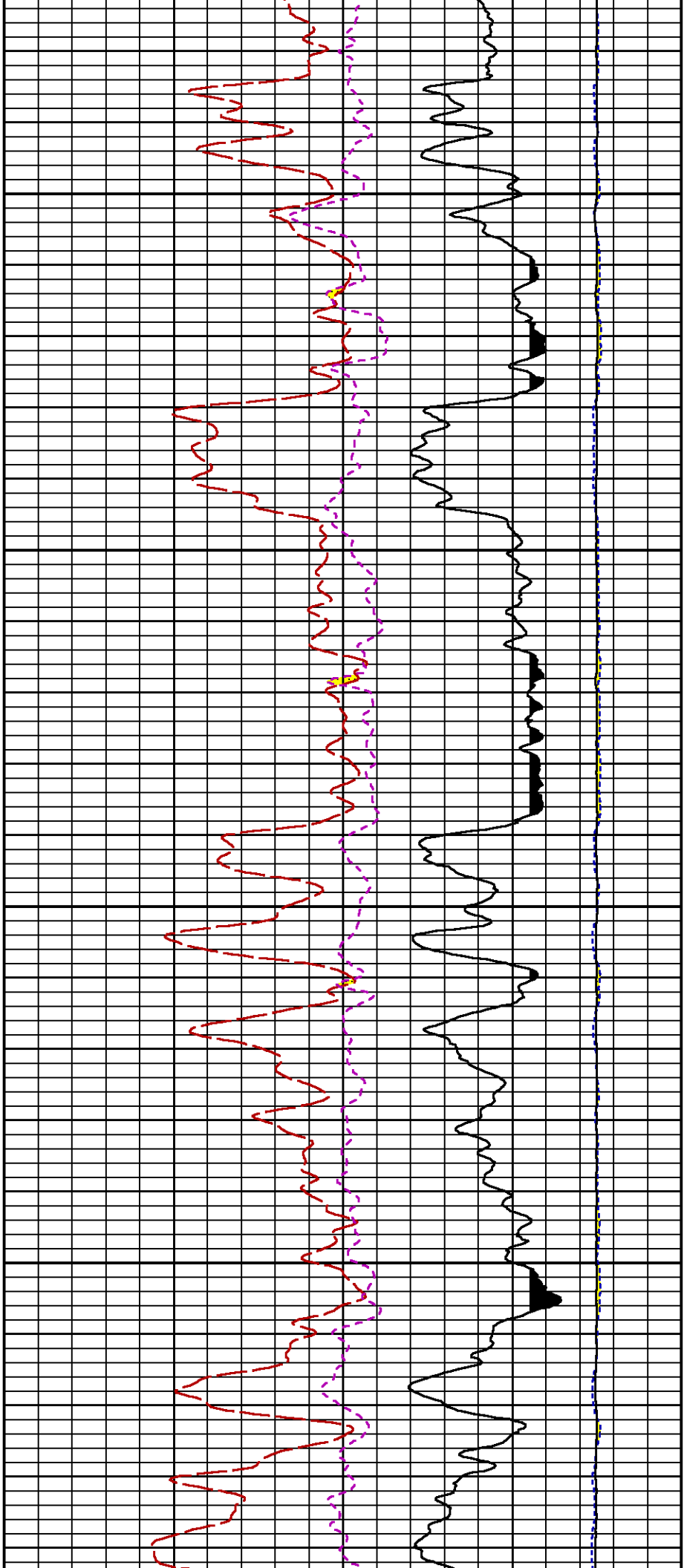


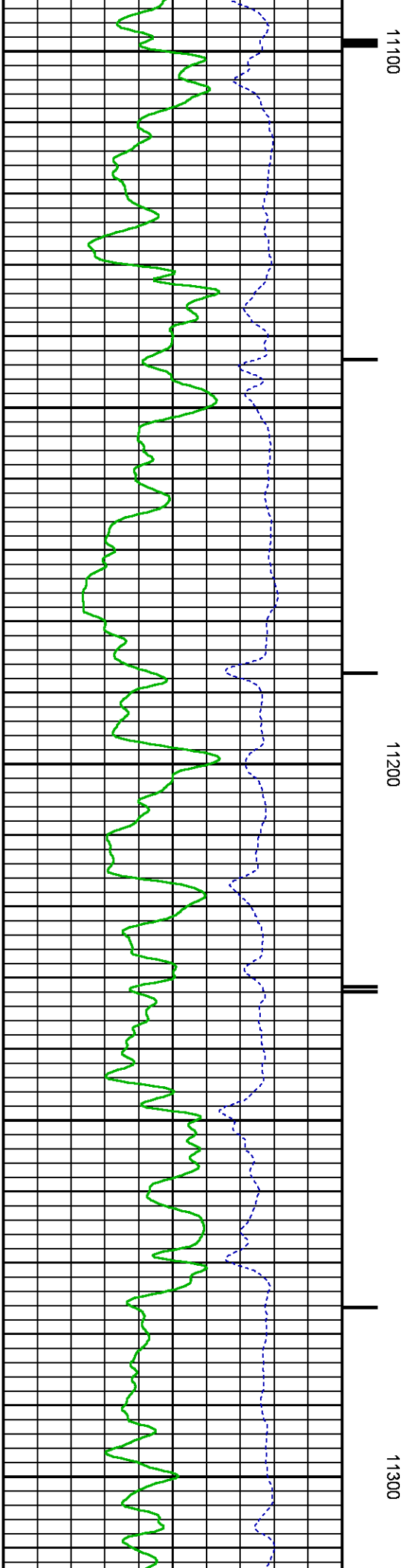
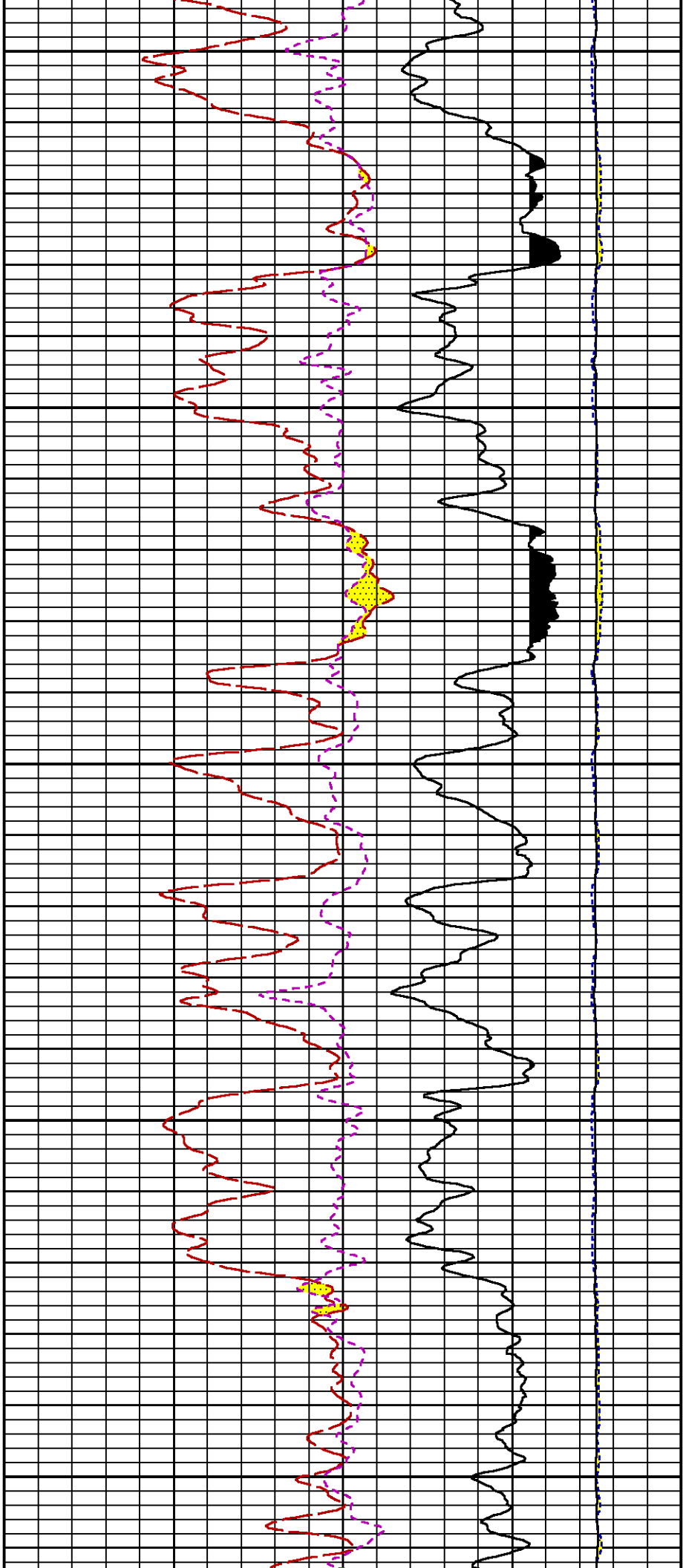


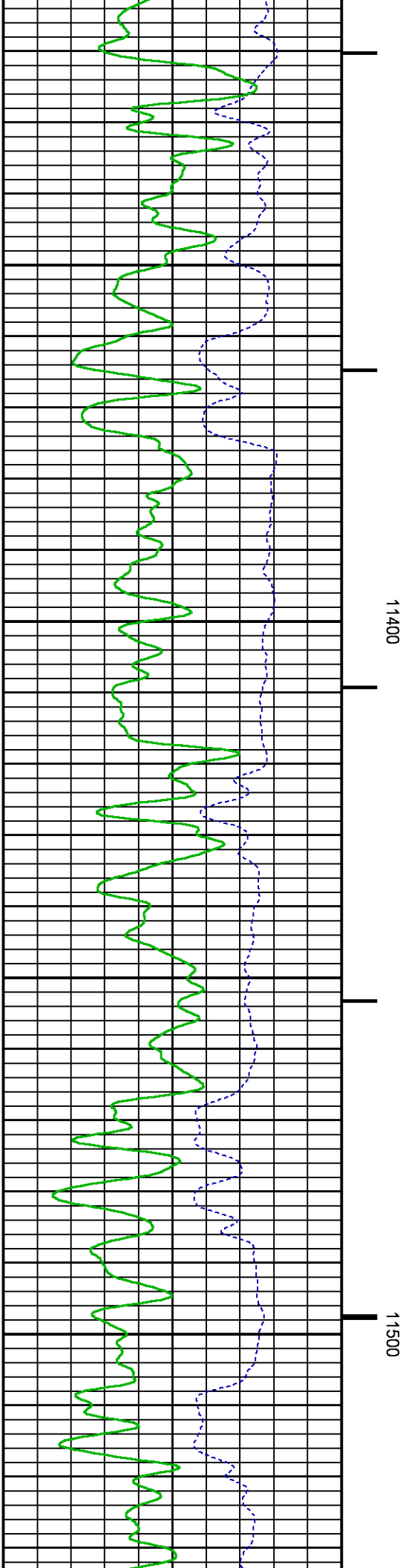
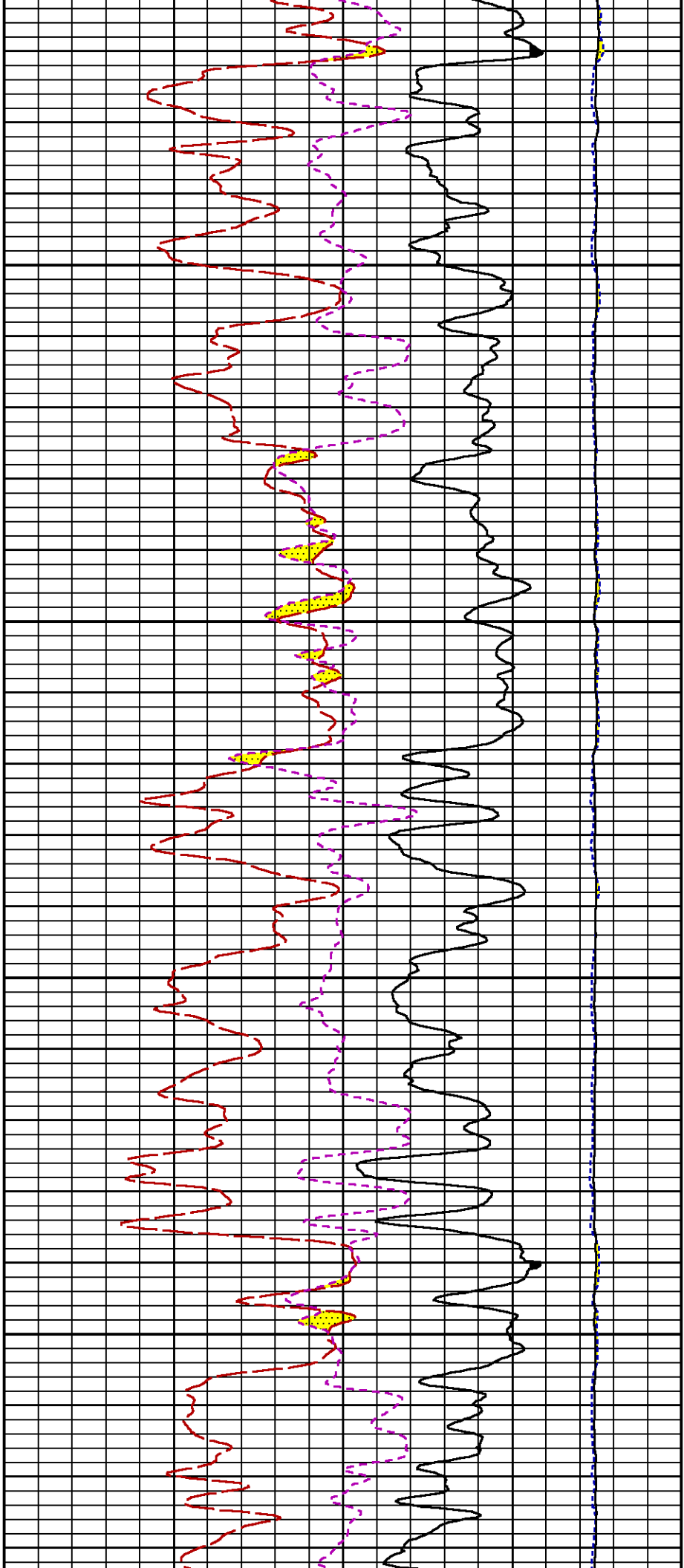


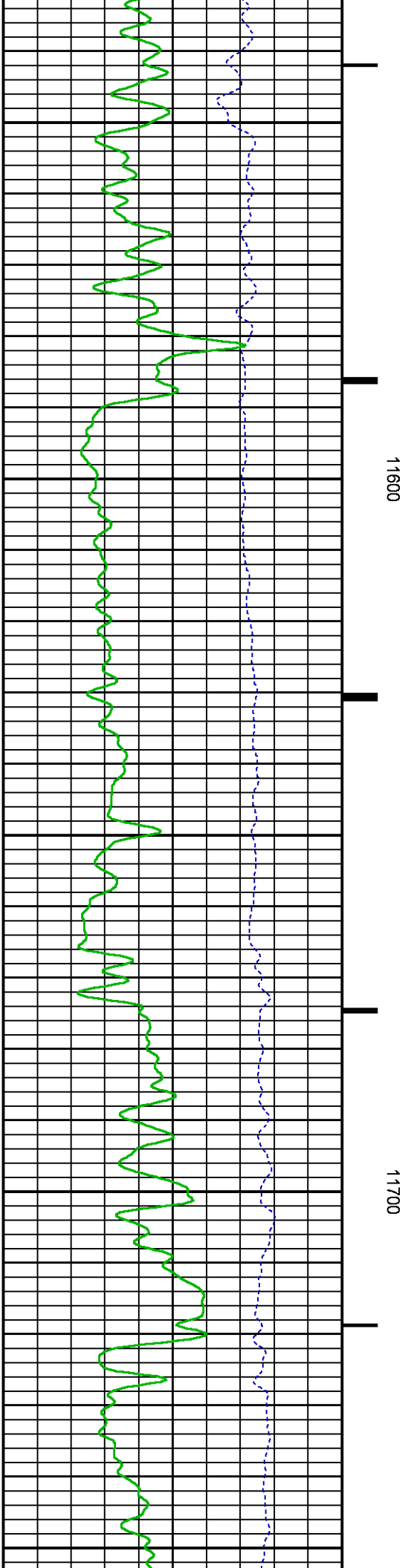
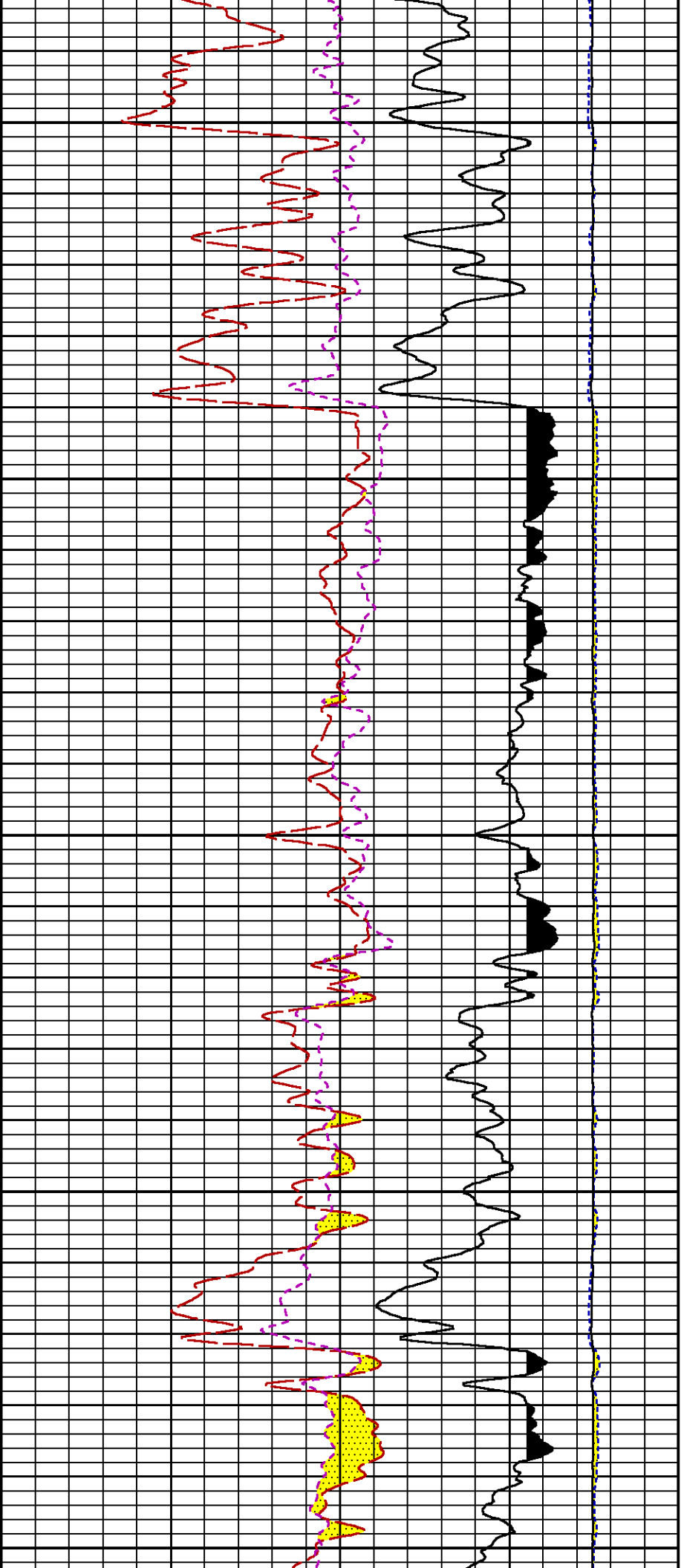


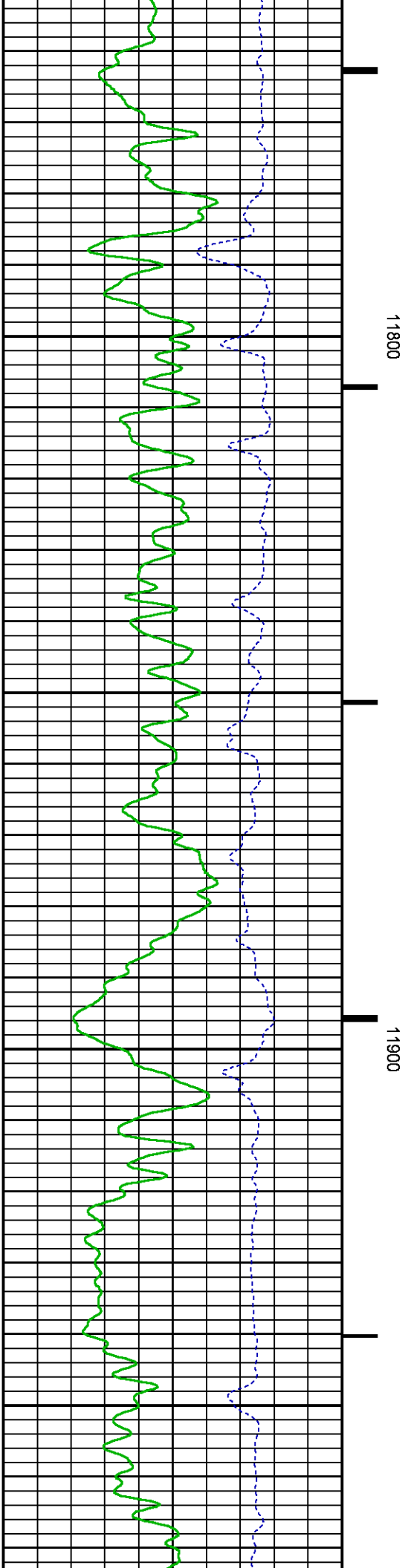
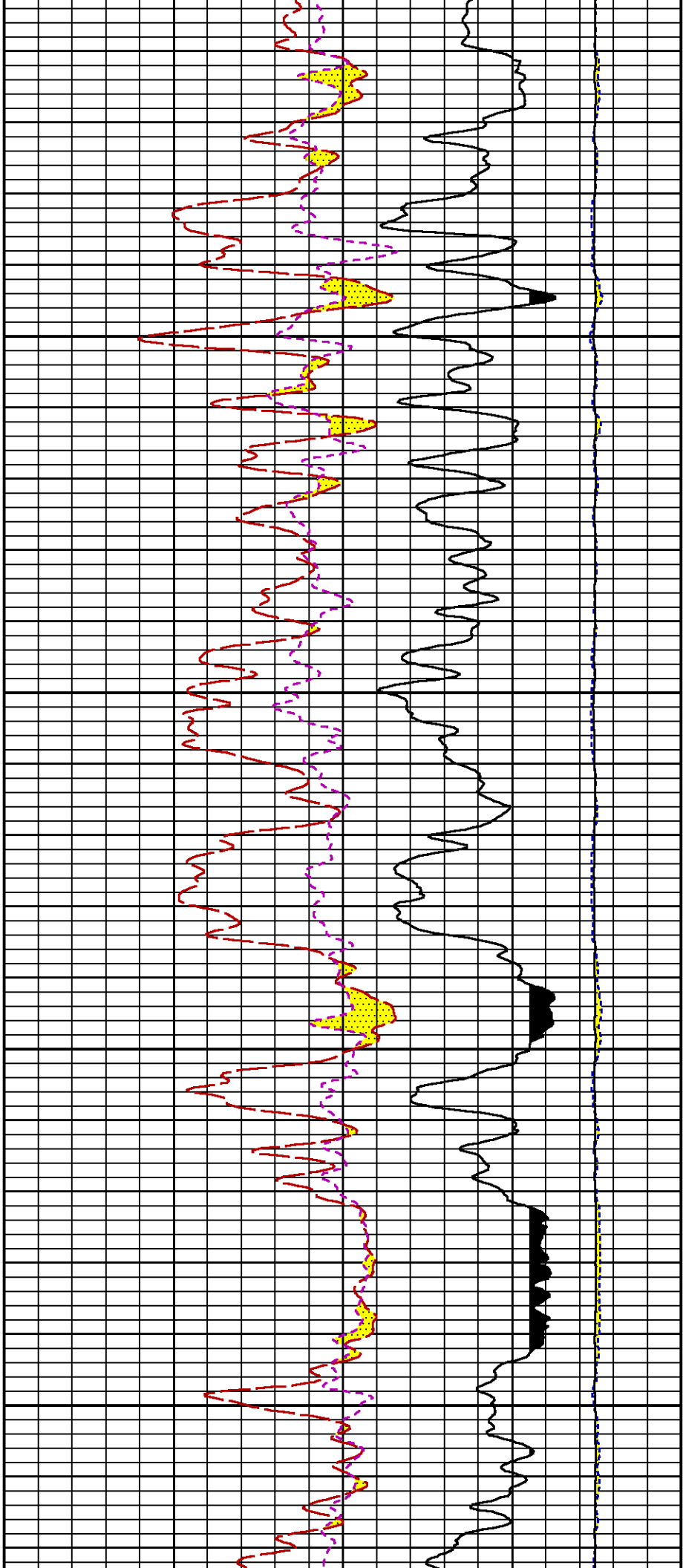


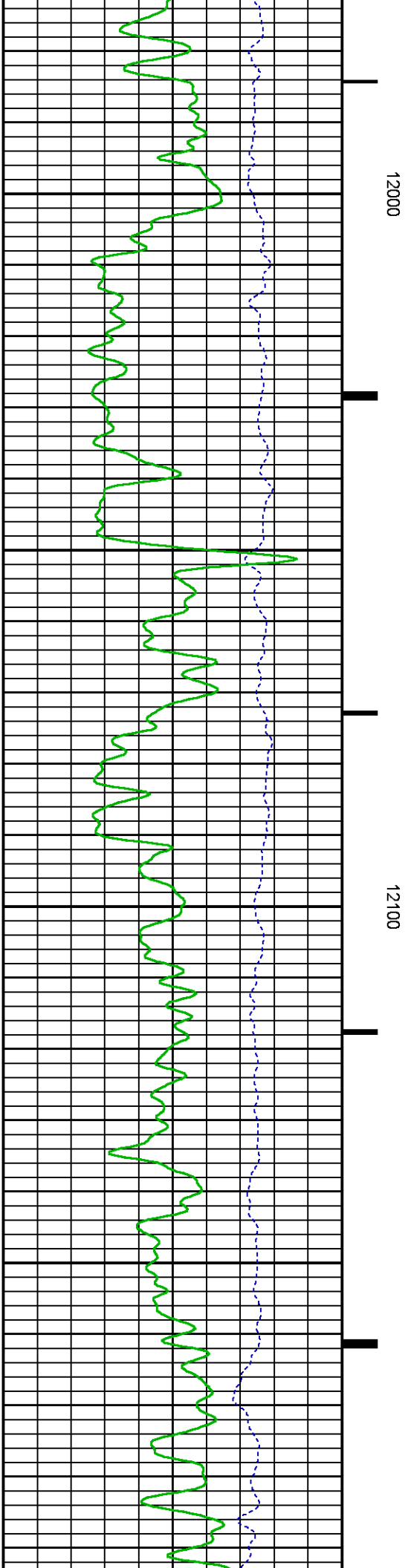
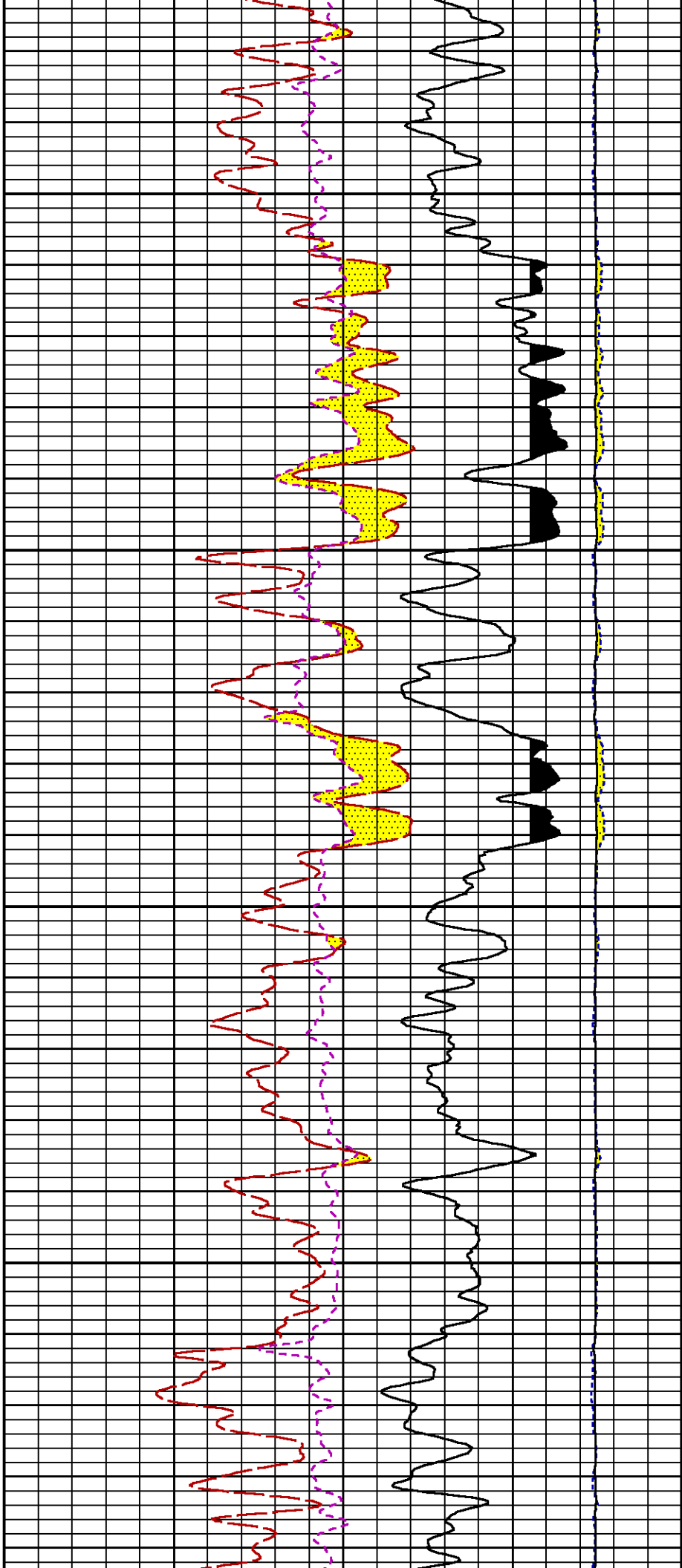


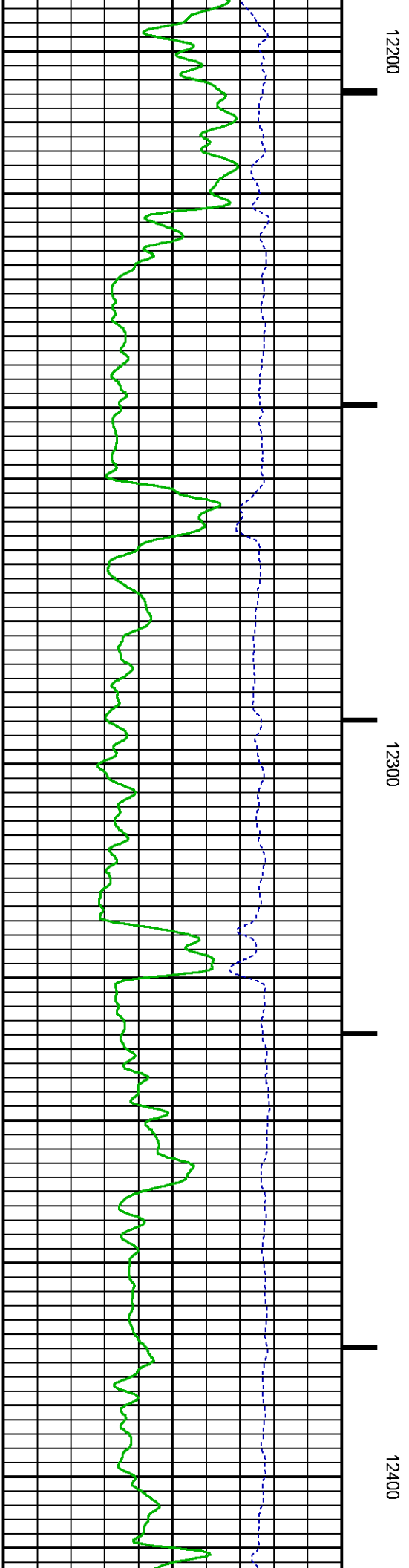
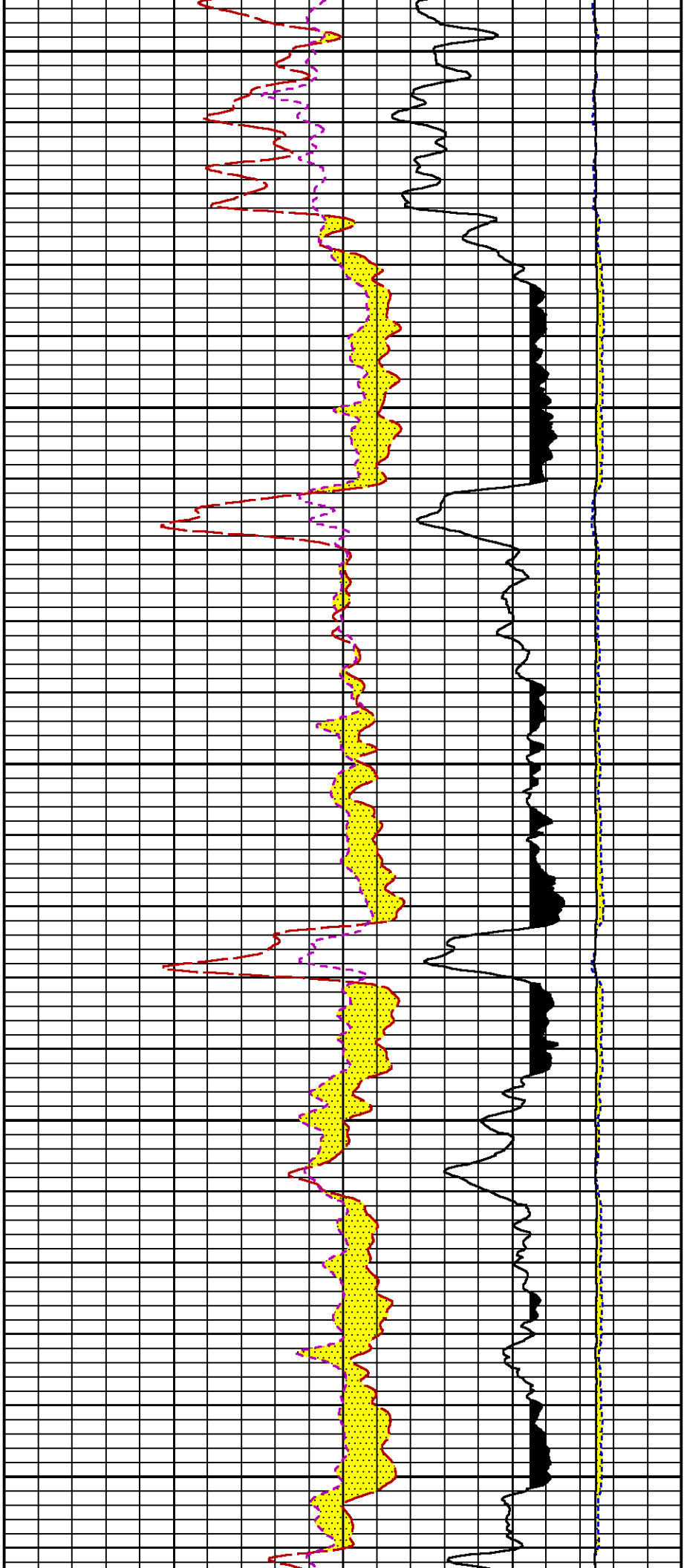


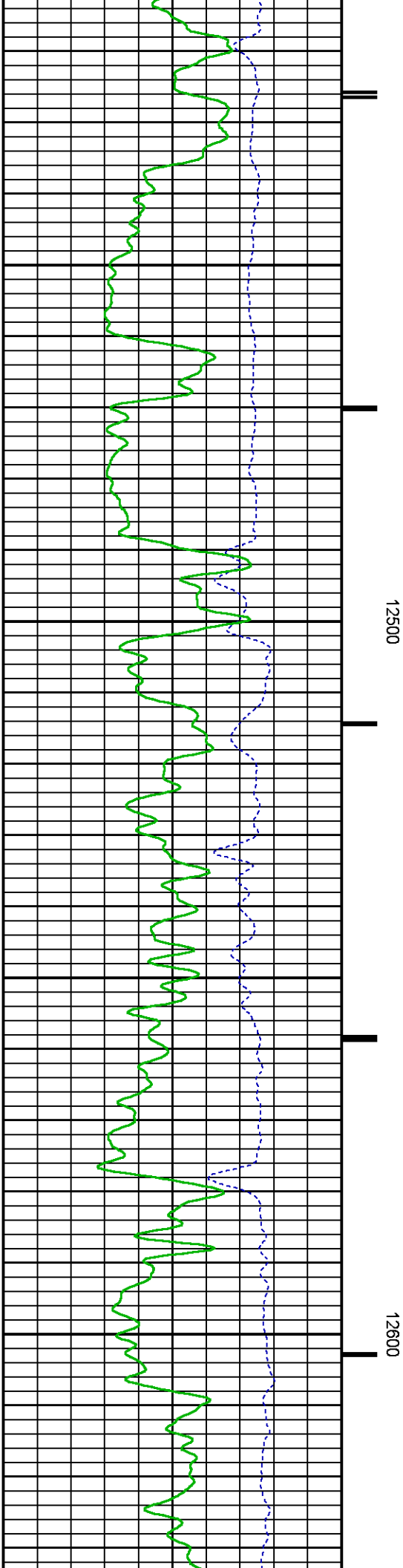
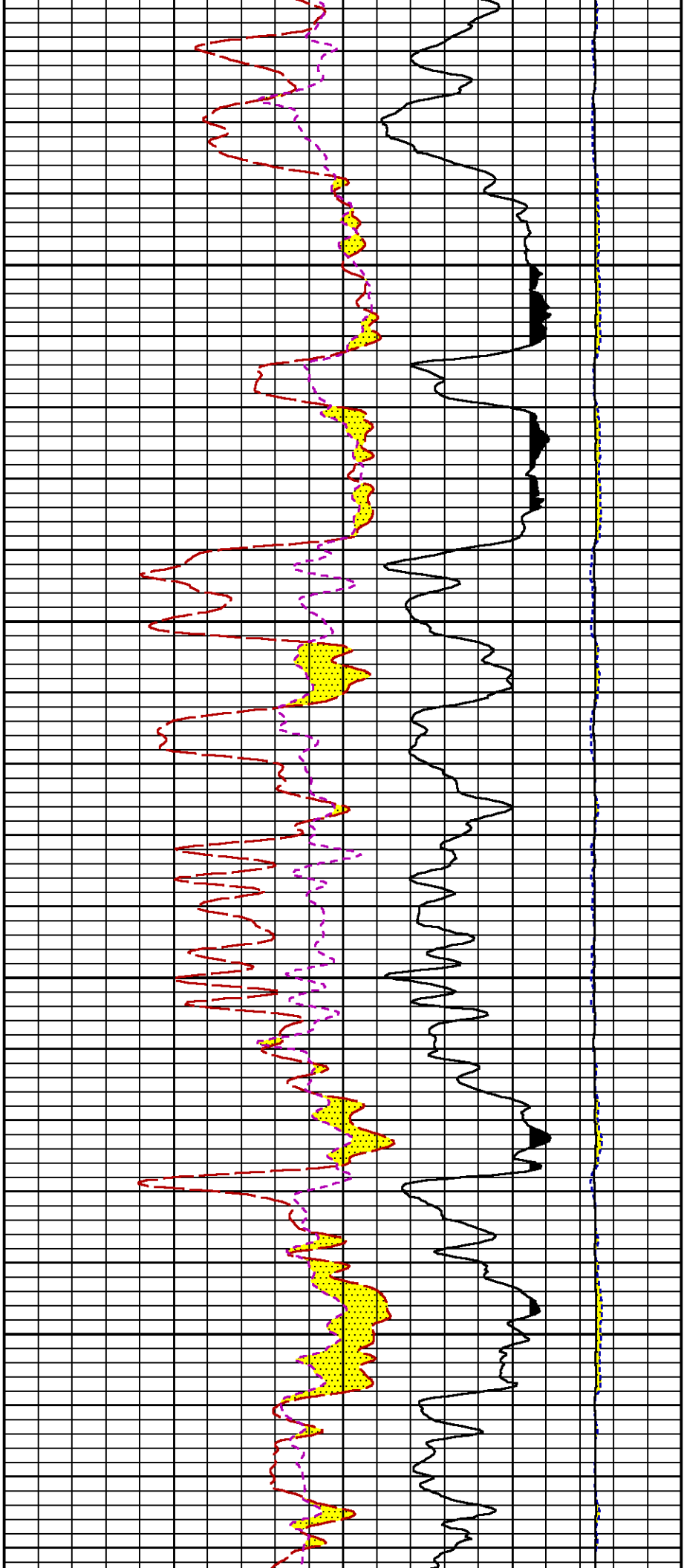


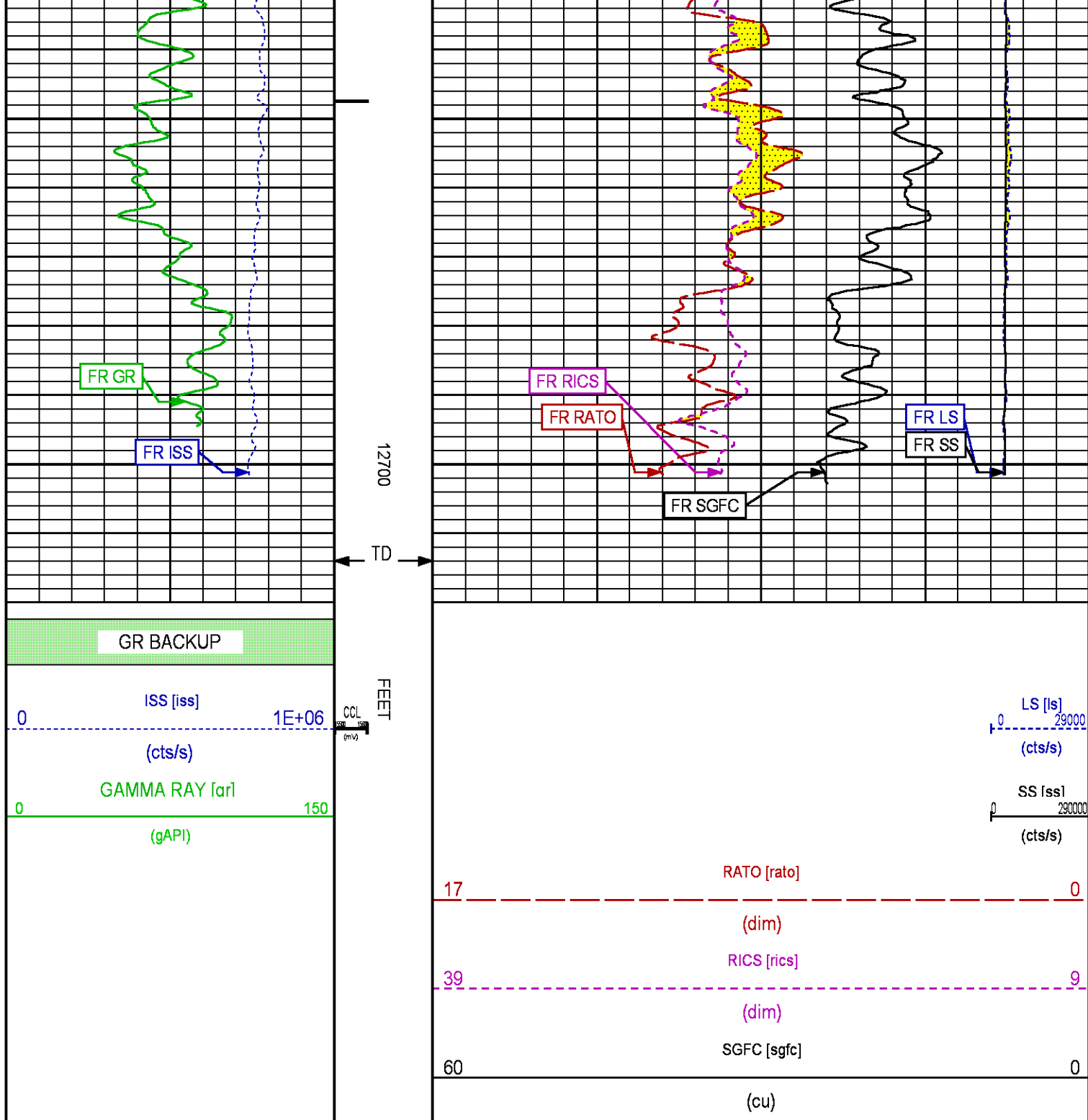












REPEAT SECTION PNC-3D MODE

FILE: /dat1a/CH096703/n353a01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 12199.250 ft BOTTOM DEPTH: 12447.500 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	"	"
	CASING SIZE	4.50	in	"	"
	MATRIX	SANDSTONE		"	"
	CORRECTION BUFFER	11		"	"

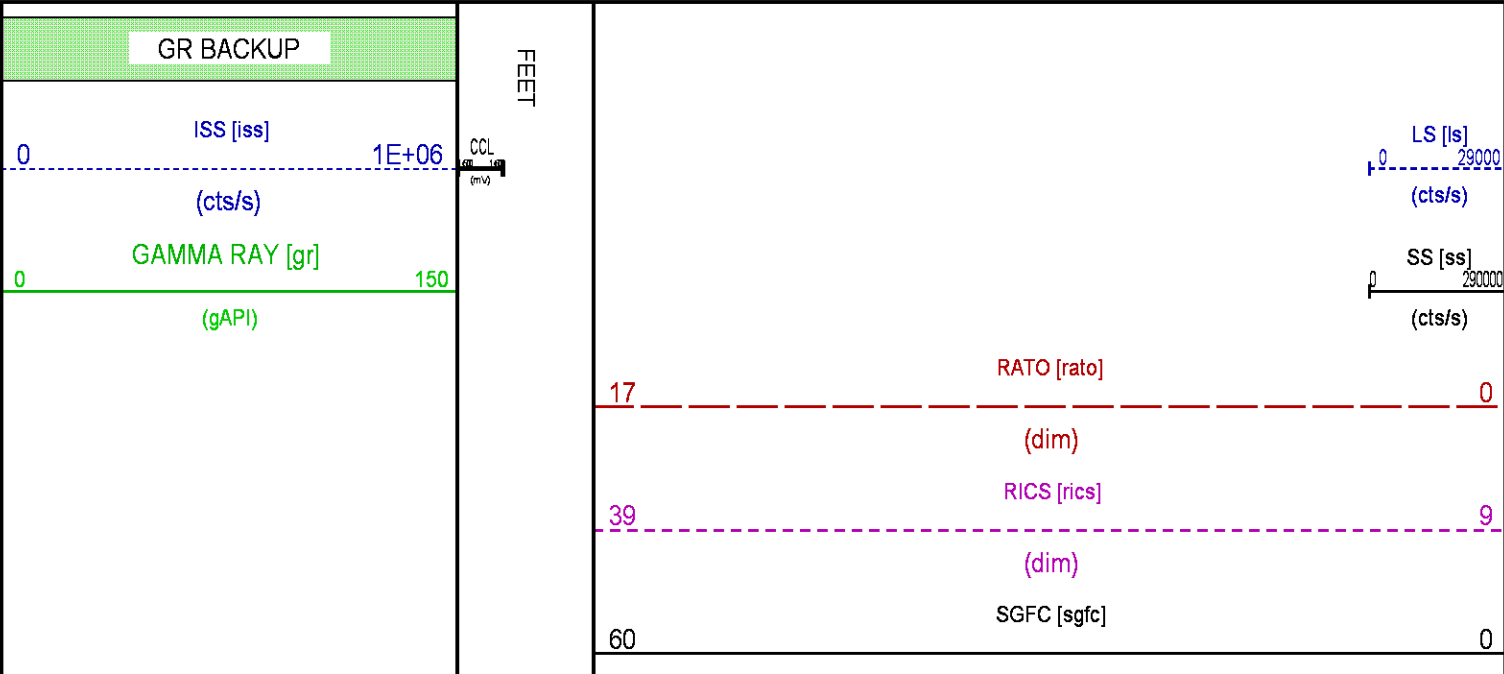
CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	May 25 16:31:21 2015	CASING COLLAR LOCATOR
F1:GR	May 25 16:31:21 2015	GAMMA RAY
F1:ISS	May 25 16:31:21 2015	INELASTIC SHORT SPACE COUNT RATE
F1:LS	May 25 16:31:21 2015	LONG SPACE COUNT RATE
F1:RATO	May 25 16:31:21 2015	SHORT/LONG SPACE COUNT RATE RATIO
F1:RICS	May 25 16:31:21 2015	SHORT SPACE INELASTIC TO CAPTURE COUNT RATE RATIO (ISS/CSS)
F1:SGFC	May 25 16:31:21 2015	CORRECTED FORMATION SIGMA
F1:SS	May 25 16:31:21 2015	SHORT SPACE COUNT RATE

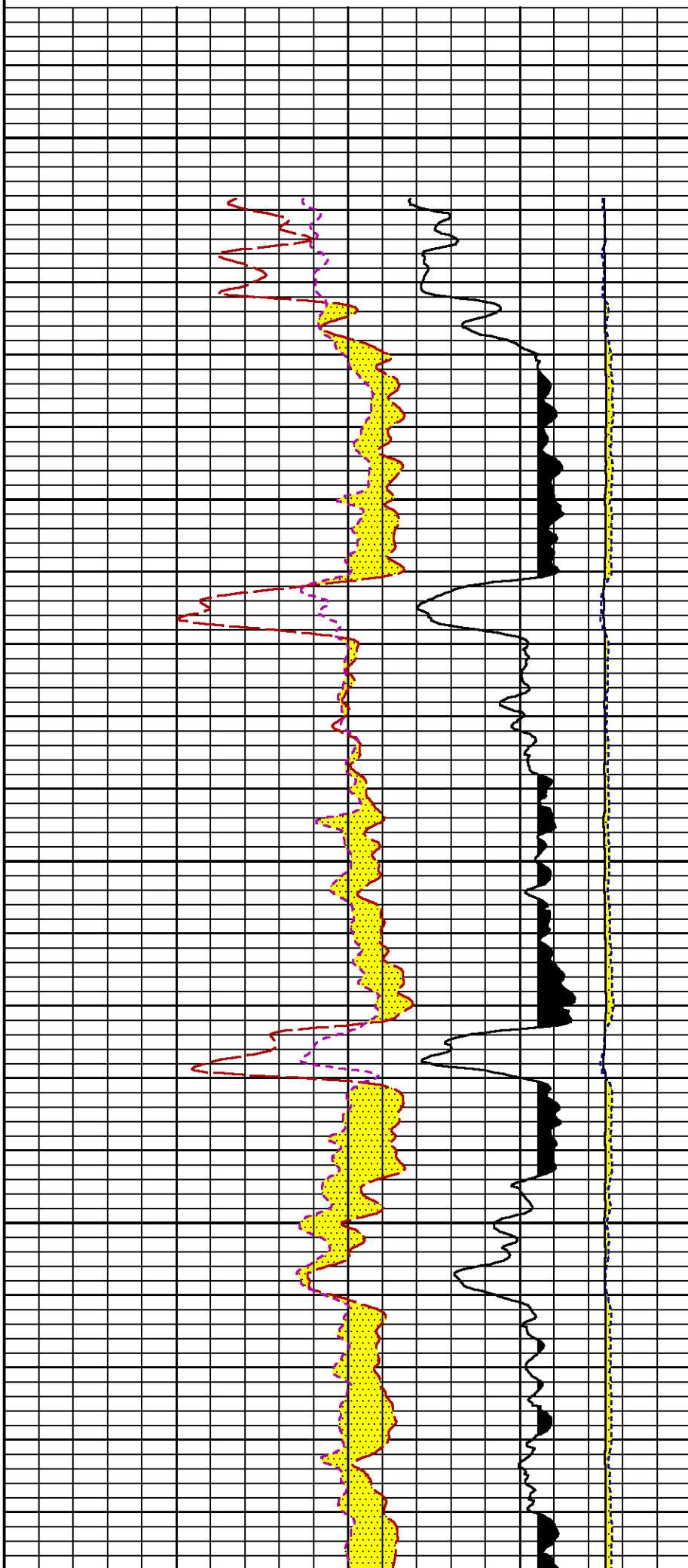
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	26.00	ISS	12.75	RATO	12.75	SGFC	12.75
GR	23.00	LS	12.75	RICS	12.75	SS	12.75

Presentation	: cas6685:/dat1a/CH096703/RPM_REPEAT.fvpdf [5"/100' Scale]
Plot Interval	: 12182.5 - 12440.8 Feet
Data File 1	: F1 : cas6685:/dat1a/CH096703/n353a01_REPEAT.xtf
Created On	: May 25 16:31:21 2015
Company	: WPX ENERGY
Well	: FEDERAL RGU 313-25-198
Field	: SULPHUR CREEK
File Interval	: 12181.8 - 12455.8 Feet
OCT	: n353a



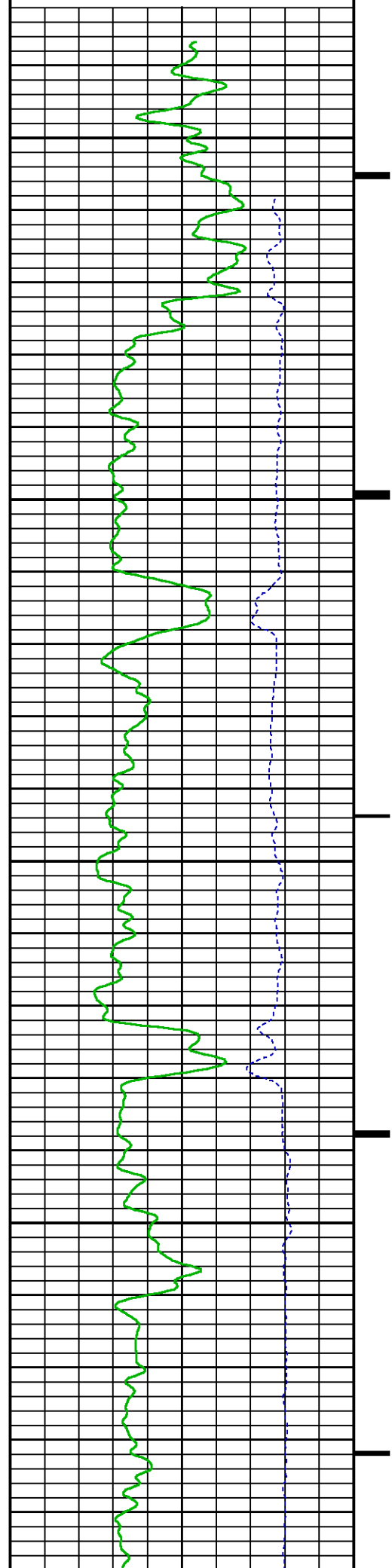
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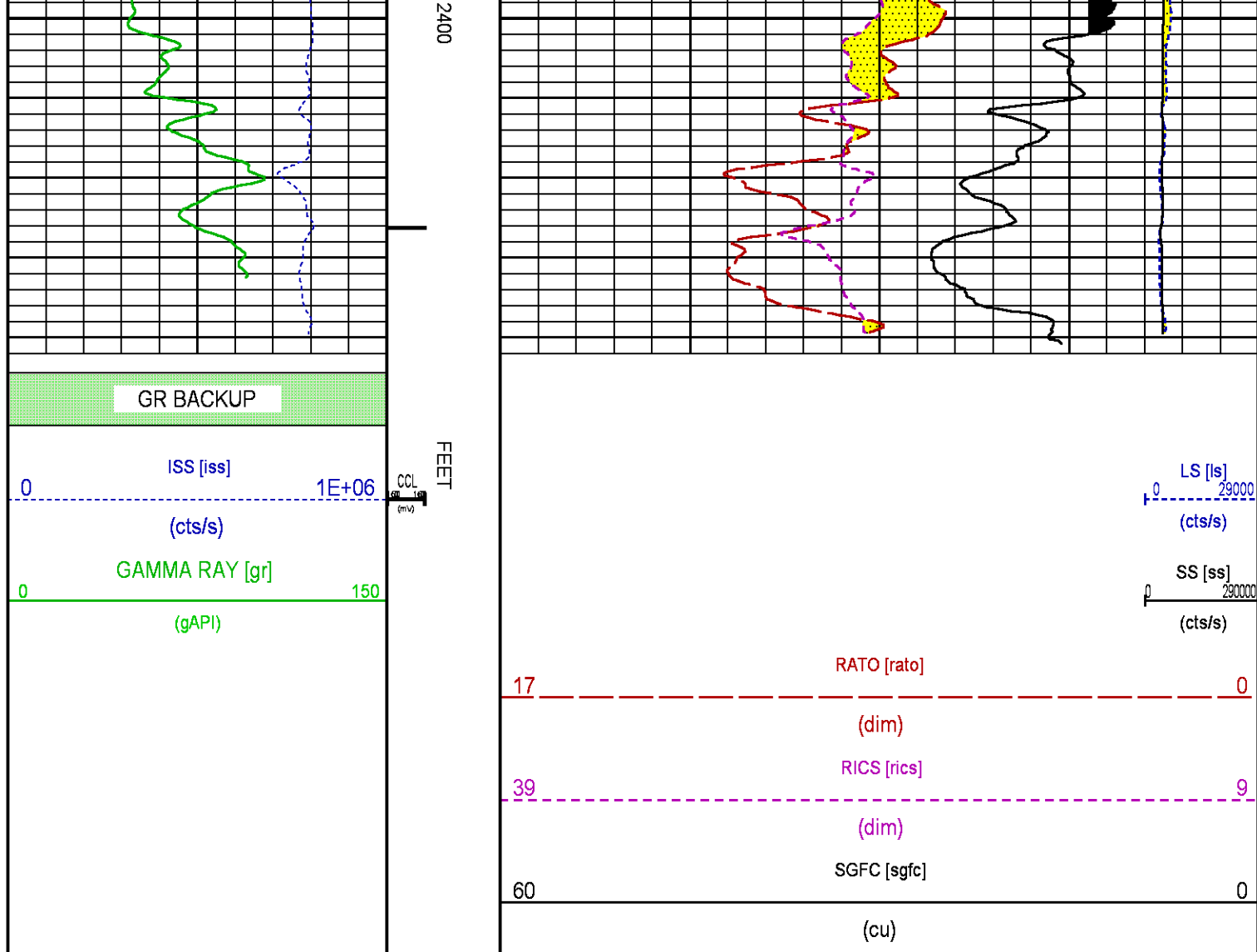


12200

12300

1





CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH096703/n353a.tp1

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 8262XA 10317216

DATE/TIME PERFORMED: Fri May 22 13:01:47 2015

UNIT #: 3885TC 6685

CALB JIG #: 4702NK VBA-905

	BACKGROUND CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	63.11	428.60	0.506	31.95	185

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 8262XA 10317216

DATE/TIME PERFORMED: Fri May 22 13:04:19 2015

UNIT #: 3885TC 6685

VERI JIG #: 4702NK VBA-905

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	62.44	421.13	0.506	31.61	213.17	181.56
						175.00 195.00

RPM_PNC_3D PRIMARY CALIBRATION SUMMARY

TOOL: 8283PA 10169251

DATE/TIME PERFORMED: Tue May 19 11:16:07 2015

UNIT: 3885TC 6685

CALIBRATOR: 2437XB 112674

SOURCE: 8281AA 10220684

HOURS: 8281AA 394

	ISS	Mtr Vlt (V)	SS Gain	LS Gain	XLS Gain	EA Temp (degF)	Sync Delay (usec)	RCAL
Raw Data	804964	125	2325	2308	2334	100	7.0	0.9825
Interpolated	1300000	147	2306	2301	2334			

	ISS	BKS	BKL	BKX	SGA1	SDA1	SGA2	SDA2
Raw Data	804964	9205	1490	183	26.03	0.15	24.17	0.33
					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	804964	167561	26142	88307	31443	8234	53492	13175
Fit Quality %		0.845	0.952	0.875	0.875	0.873	0.833	0.855

	ISS	RBOR	RIN ISS/ILS	RIN13 ISS/IXS	RICS ISS/CSS	RATO SS/LS	RTWO SS2/LS	RONE CSS/CLS
Raw Data	804964	1.44	4.80	30.80	15.05	10.73	3.82	4.06
		1.42 1.45	3.55 5.52	22.20 32.70	10.99 16.34	10.06 11.10	3.57 3.95	3.76 4.22
Fit Quality %		0.036	0.198	0.106	0.120	0.213	0.203	0.183
Reduced	1400303	1.44	4.82	30.85	15.05	10.76	3.83	4.07
		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

TPSETEMP PRIMARY CALIBRATION SUMMARY

TOOL #: 8255XA 176973

DATE/TIME PERFORMED: Thu Jun 19 09:53:23 2014

UNIT #: 3880TA HL6670

T(0)

T(1)

T(2)

T(3)

Corr Coeff for Temp

-1.889935E+01

1.004280E-01

1.215976E-06

-1.293045E-10

INSTRUMENT CONFIGURATION

Source File: /dat1a/CH096699/n353a~tdg

A3 CABLEHEADPCM POWER SUPPLY

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

TELEMETRY / CCL

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

GAMMA RAY

Diameter : 1.70"
Length : 3.02'
Weight : 15 lbs
Series : 8262XA
Mnemonic : GR
Measure Point: 0.89': GR MP

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 DETECTOR
Measure Point: 5.04': LS DETECTOR
Measure Point: 4.79': SS DETECTOR

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 : SRPL
Measure Point: 1.52': TEMP MP

BULL PLUG 1 11/16

TOTAL LENGTH: 34.08'
TOTAL WEIGHT: 144 lbs
MAX DIAMETER: 0'1.70"

34.08'

CCL MP 26.03'

GR MP 22.90'

XLS DETECTOR 13.58'
LS DETECTOR 13.16'
SS DETECTOR 12.91'

TEMP MP 1.65'
PRES MP

0.00'



COMPANY	WPX ENERGY		FILE NO:	CH096703
WELL	FEDERAL RGU 313-25-198		API NO:	05103119830000
FIELD	SULPHUR CREEK			
COUNTY	RIO BLANCO	STATE	COLORADO	
LOCATION:		ELEVATIONS:	SEC 25 T1S R98W	
SHL: 2454'FNL 901'FEL SEC26 T1S R98W		KB 6646 FT	42-26-198	
BHL: 1631'FSL 265'FWL SEC25 T1S R98W		DF	H&P 318	
SEC 25 TWP 1S RGE 98W		GL 6622 FT		
		DATE	25-May-2015	