



FILE NO: CH096705	COMPANY WPX ENERGY
API NO: 05103119840000	WELL FEDERAL RGU 443-26-198
	FIELD SULPHUR CREEK
	COUNTY RIO BLANCO
	STATE COLORADO
Ver. 4.01 SEC 26 T1S R98W 42-26-198 H&P 318	LOCATION: SHL: 2455' FNL 914' FEL BHL: 2185' FSL 881' FEL SEC 26 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		29-May-2015	
RUN	TRIP	1	1
SERVICE ORDER		US096705J	
DEPTH DRILLER		12533 FT	
DEPTH LOGGER		12513 FT	
BOTTOM LOGGED INTERVAL		12503 FT	
TOP LOGGED INTERVAL		7000 FT	
TIME STARTED		12:30	
TIME FINISHED		20:15	
OPERATOR RIG TIME		7:45	
TYPE OF FLUID IN HOLE		WATER	
FLUID DENSITY		NA	
FLUID SALINITY		NA	
FLUID LEVEL		186 FT	
LOGGED CEMENT TOP		NA	
WELLHEAD PRESSURE		0 PSI	
MAXIMUM HOLE DEVIATION		NA	
NOMINAL LOGGING SPEED		10 F/MN	
MAX. RECORDED TEMP.		277 DEGF	
REFERENCE LOG		BAKER HUGHES BOND LOG	
REFERENCE LOG DATE		29-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	12533 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 29-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: FAVORITE/MOORE/QUIGLEY
RIG: H&P 318

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	PCM	8250EA	166326	FREE
1	1	TEL/CCL	8248EA	10387150	FREE
1	1	GR	8262XA	10317216	FREE
1	1	RPM	8281EA	10169250	FREE
1	1	RPM	8283PA	10160383	FREE
1	1	RPM	8281FA	10191667	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: Fri May 29 19:46:08 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH096705/n353a02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 11231.250 ft BOTTOM DEPTH: 12520.915 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/CH096705/n353a03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 6968.250 ft BOTTOM DEPTH: 11299.250 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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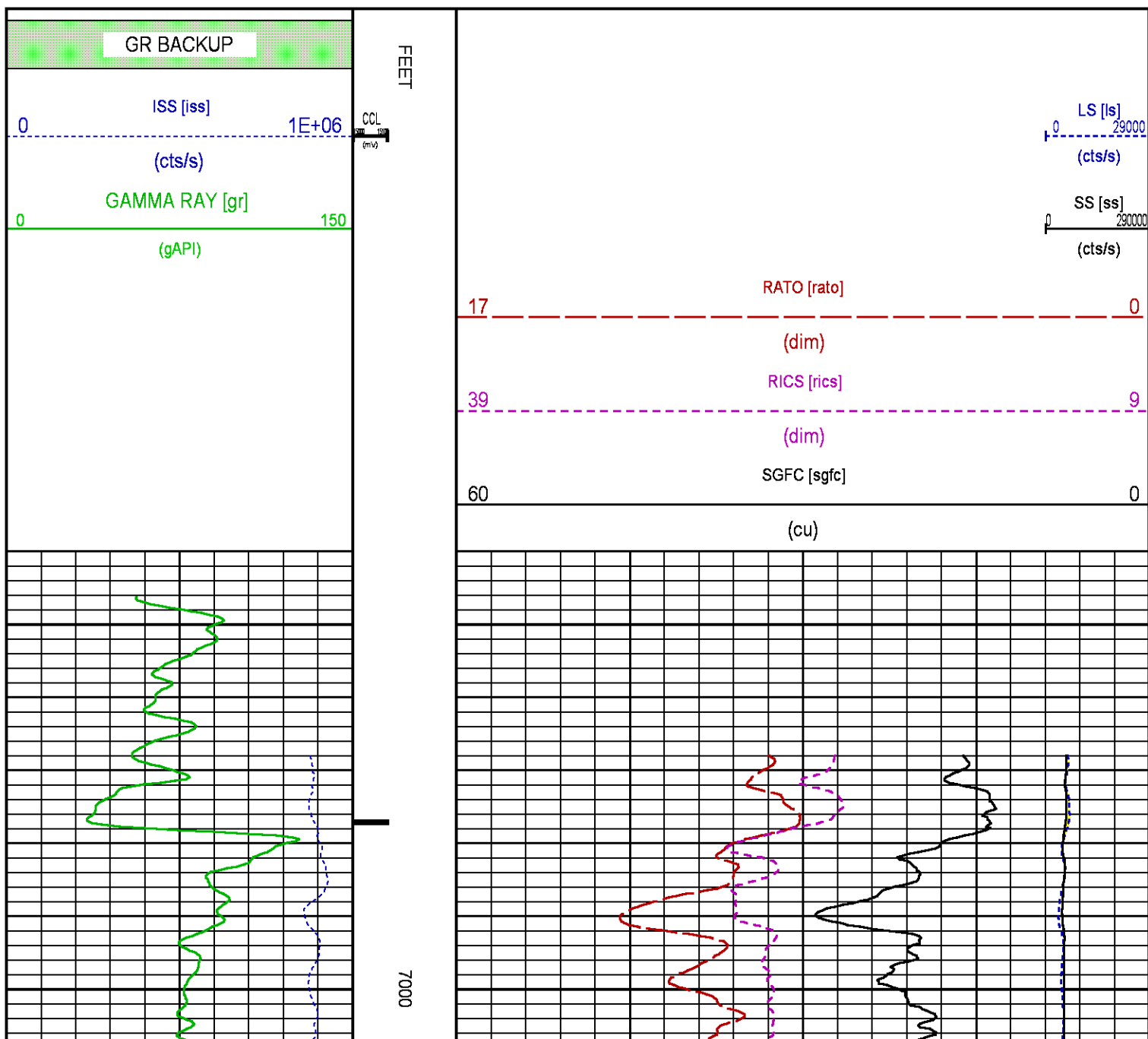
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F1:GR	May 29 15:14:16 2015	GAMMA RAY
F1:ISS	May 29 15:14:16 2015	INELASTIC SHORT SPACE COUNT RATE
F1:LS	May 29 15:14:16 2015	LONG SPACE COUNT RATE
F1:RATO	May 29 15:14:16 2015	SHORT/LONG SPACE COUNT RATE RATIO
F1:RICS	May 29 15:14:16 2015	SHORT SPACE INELASTIC TO CAPTURE COUNT RATE RATIO (ISS/CSS)
F1:SGFC	May 29 15:14:16 2015	CORRECTED FORMATION SIGMA
F1:SS	May 29 15:14:16 2015	SHORT SPACE COUNT RATE

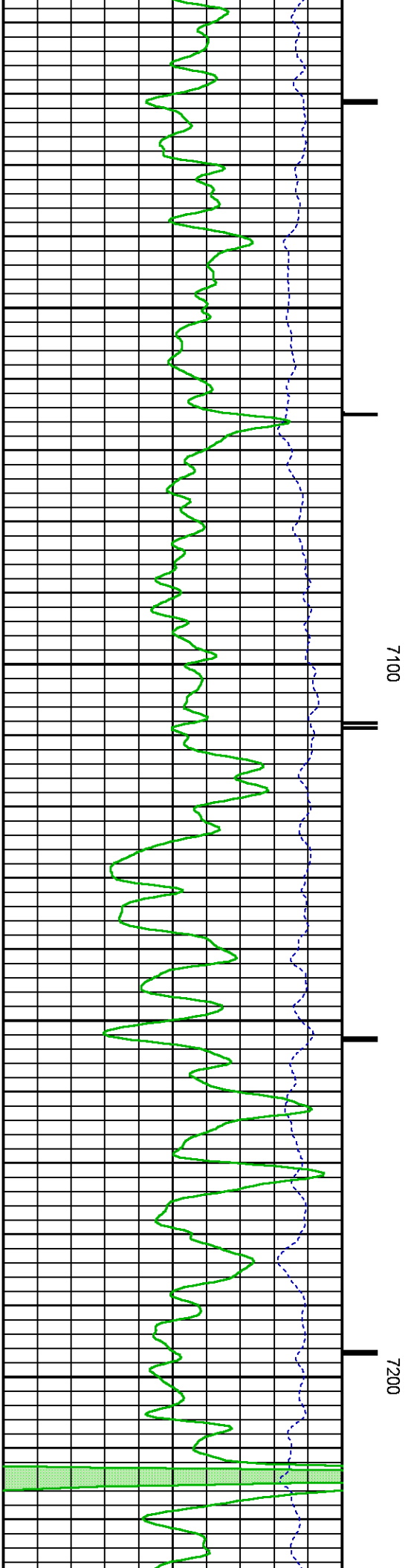
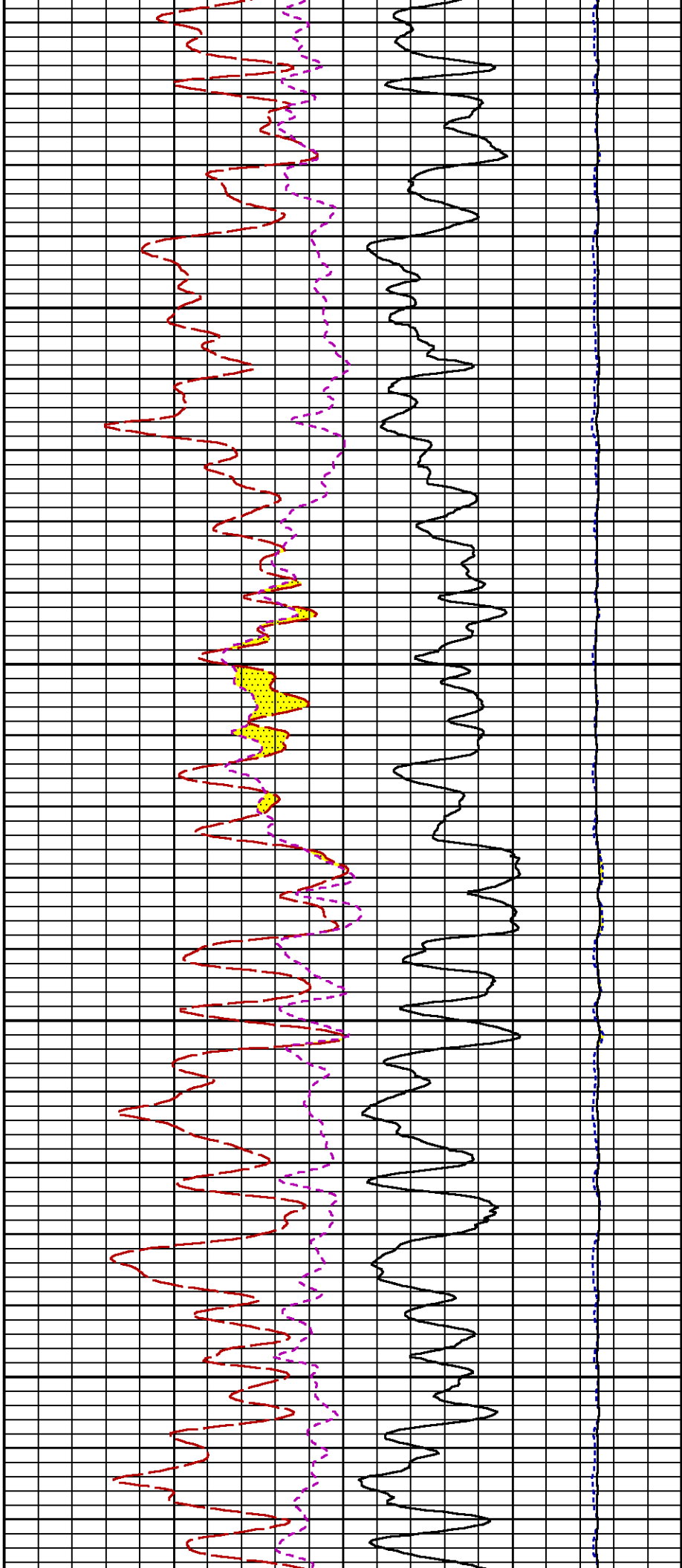
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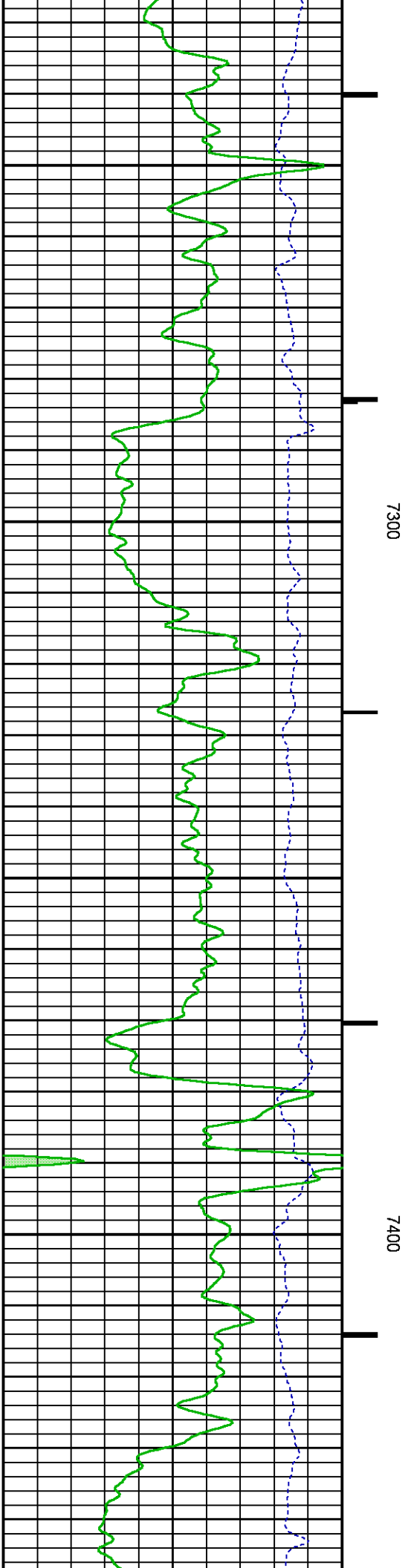
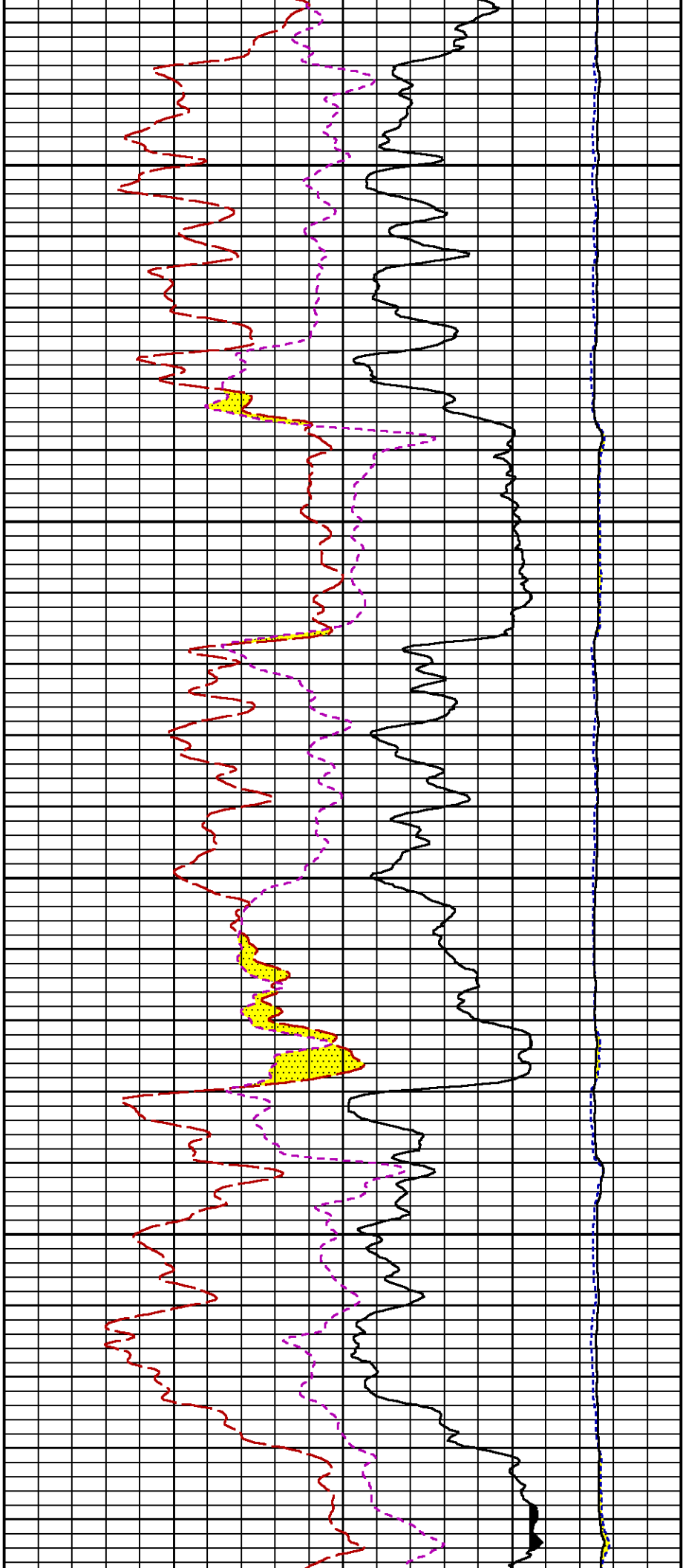
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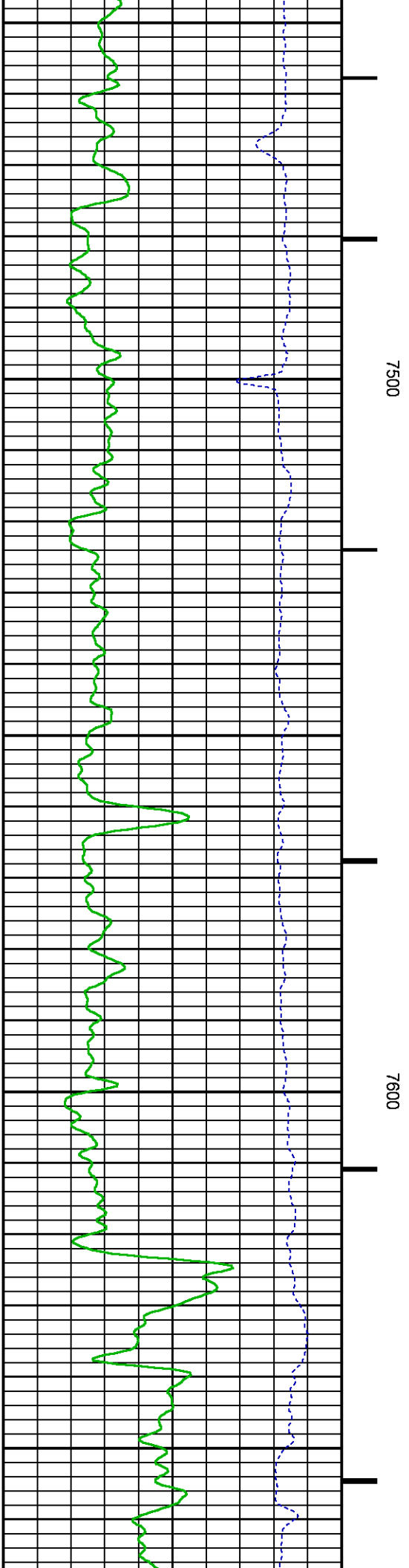
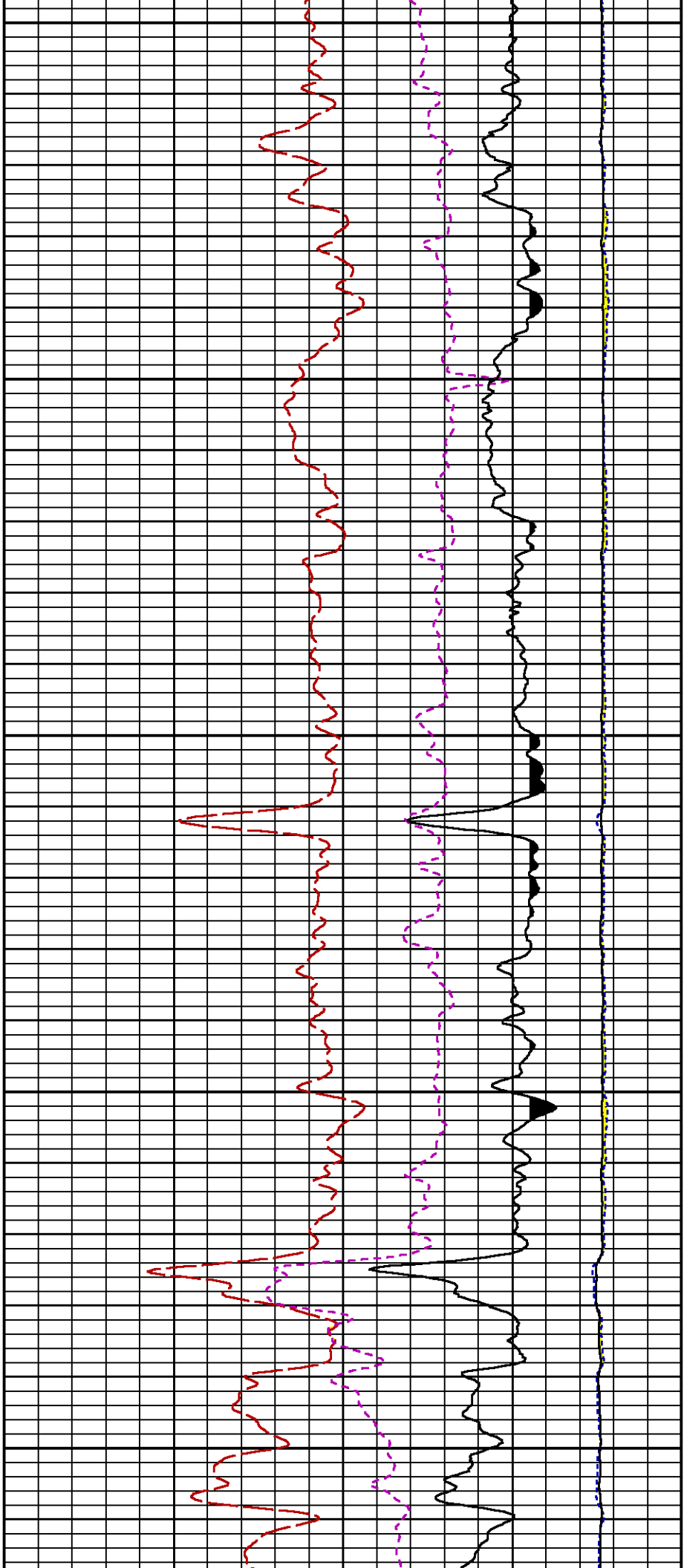
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Plot Interval : 6941.25 - 12521 Feet

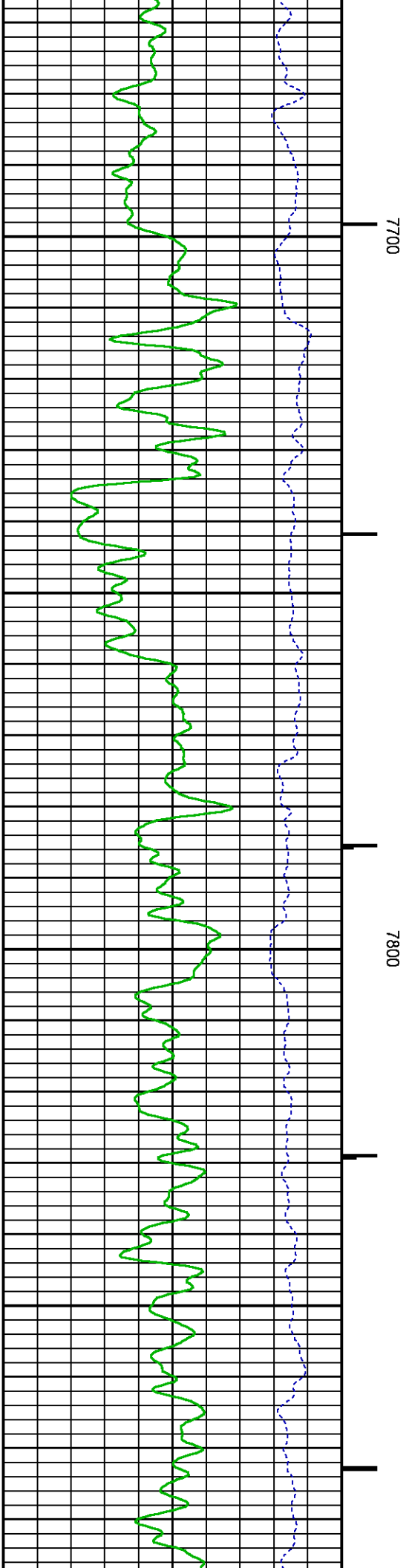
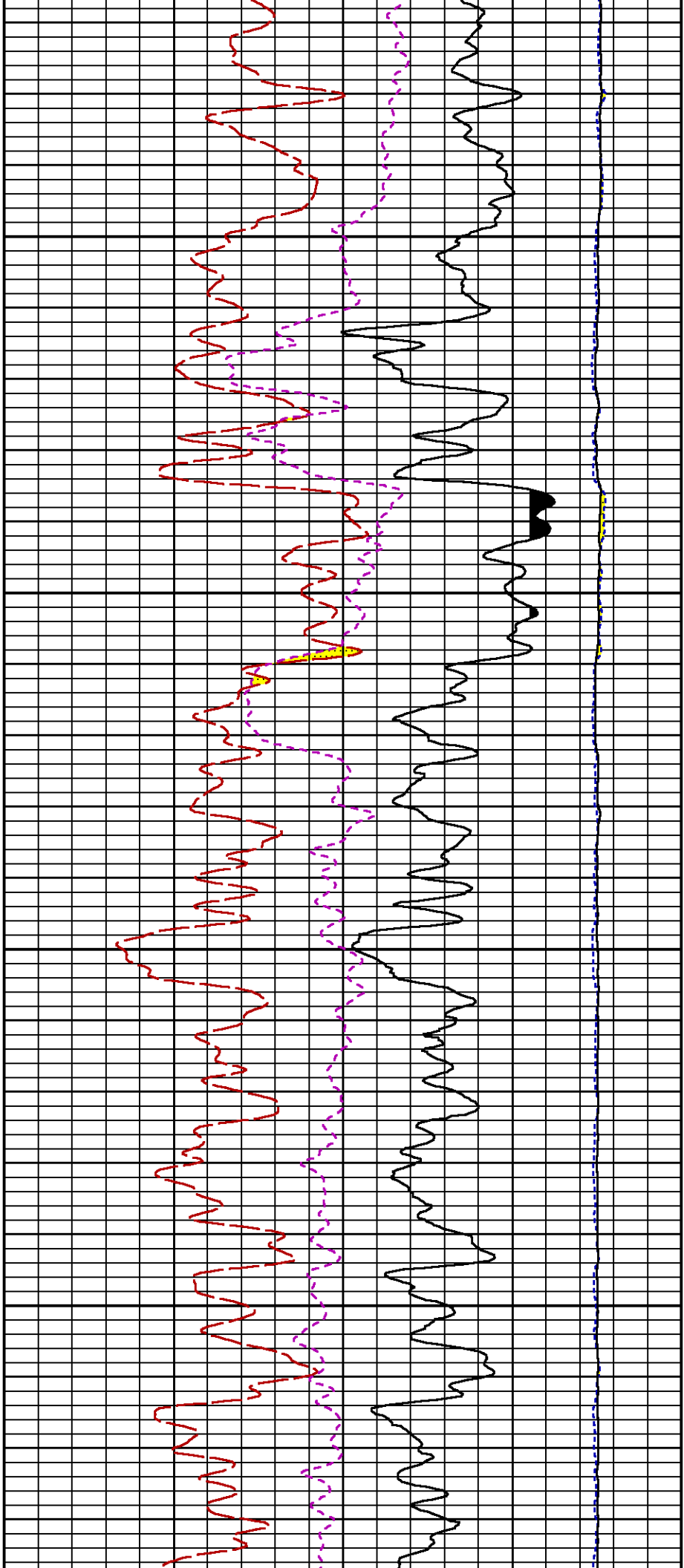
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Created On : May 29 13:54:55 2015
Company : WPX ENERGY
Well : FEDERAL RGU 443-26-198
Field : SULPHUR CREEK
File Interval : 6941.25 - 12521 Feet
OCT : n353a

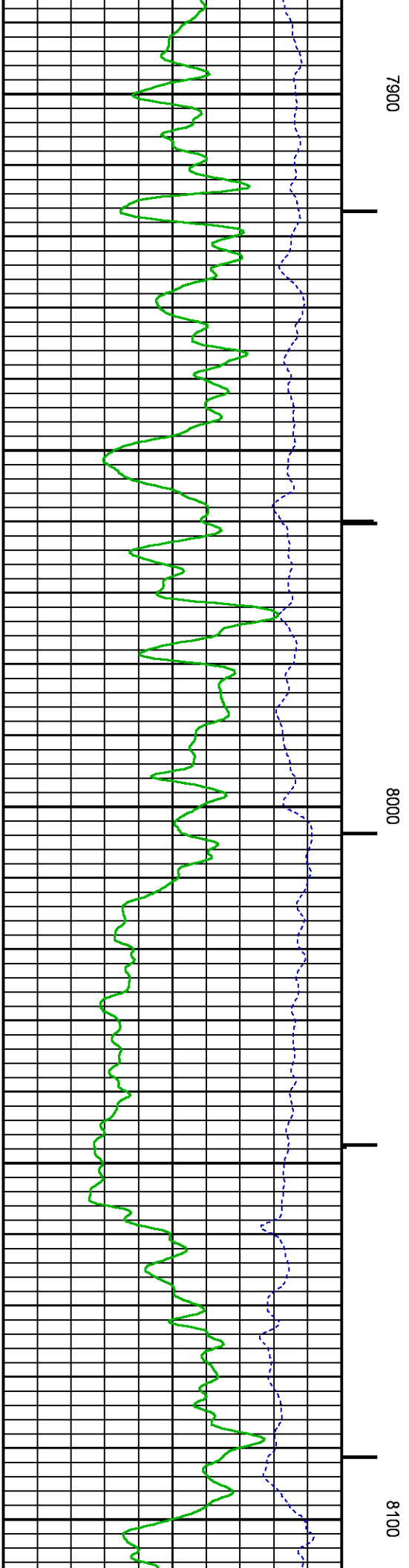
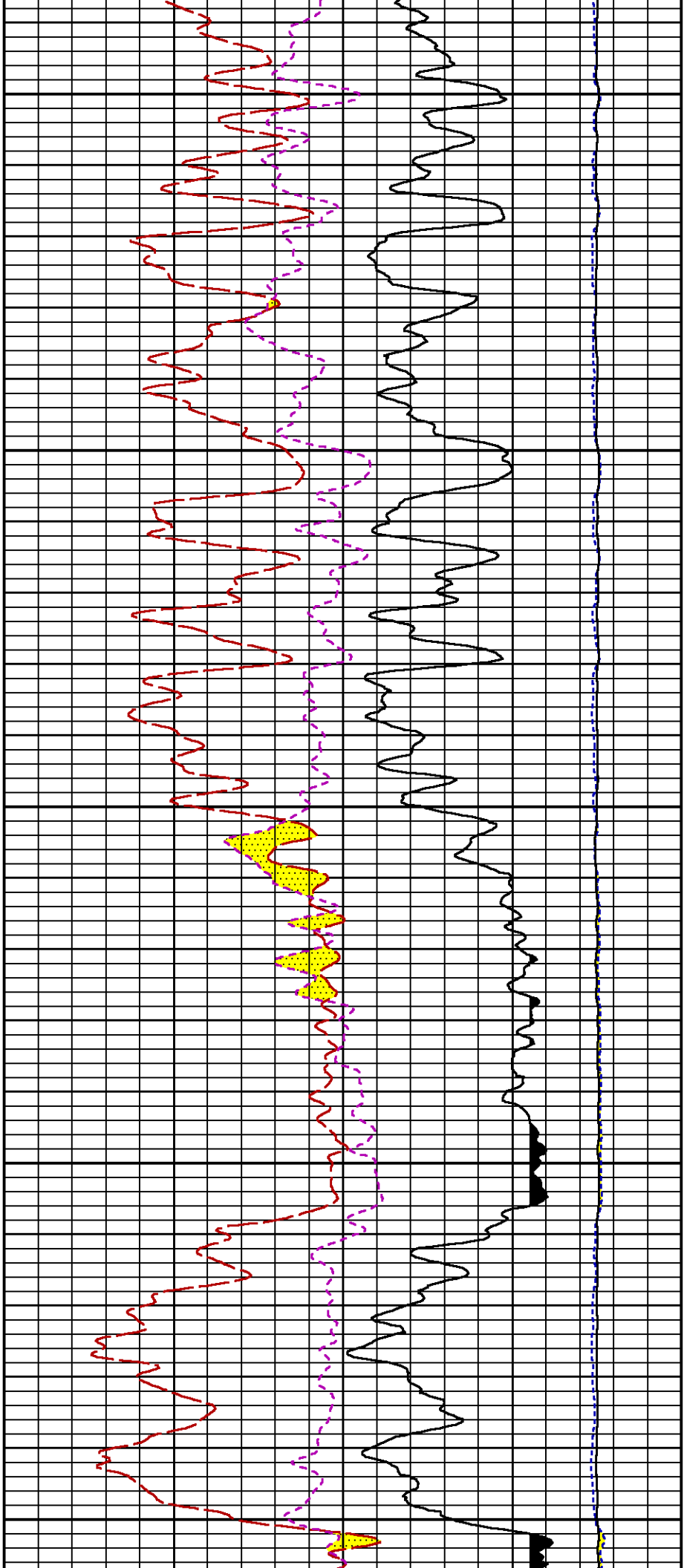


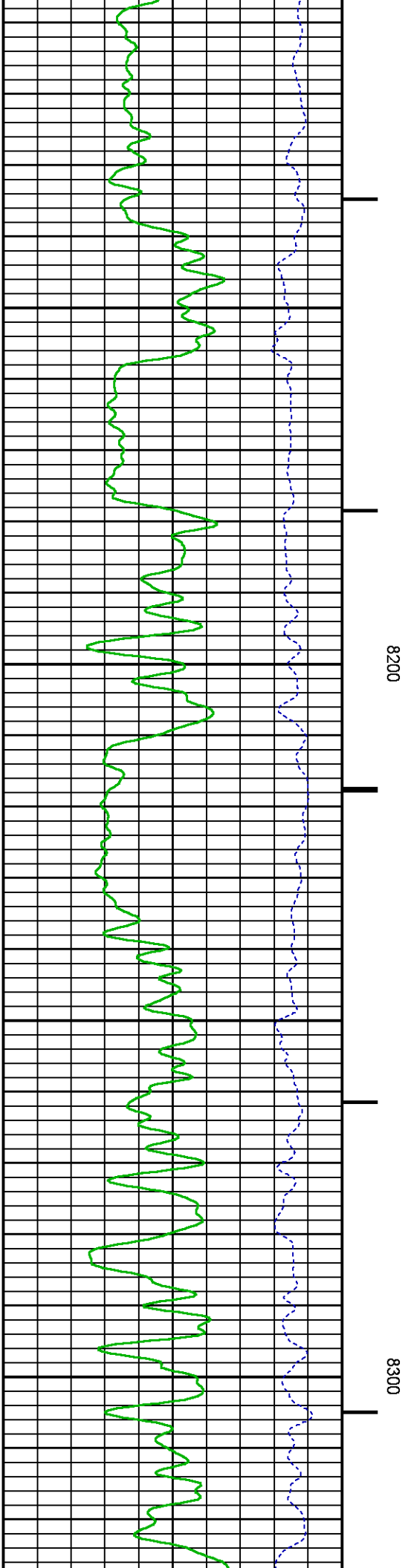
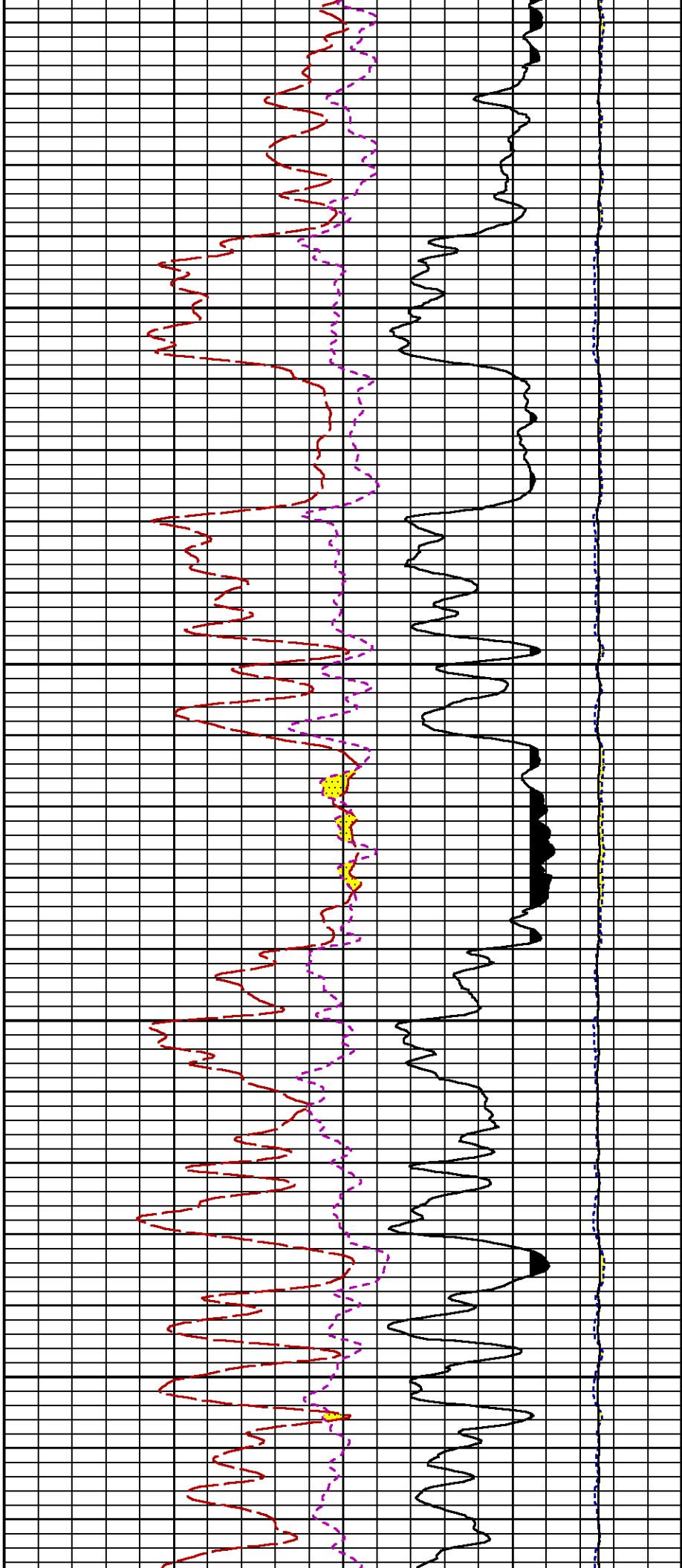


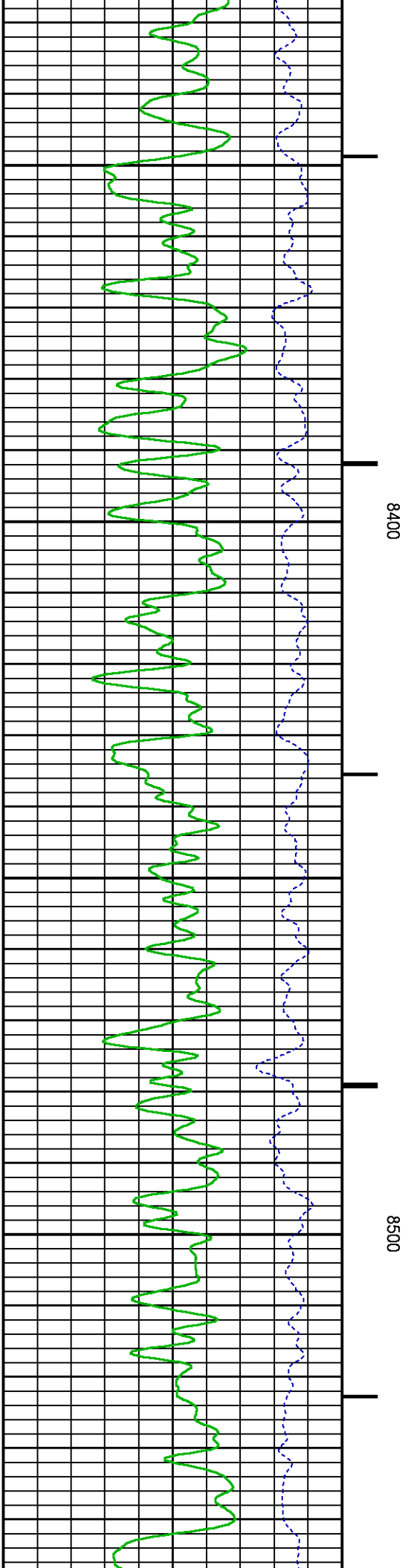
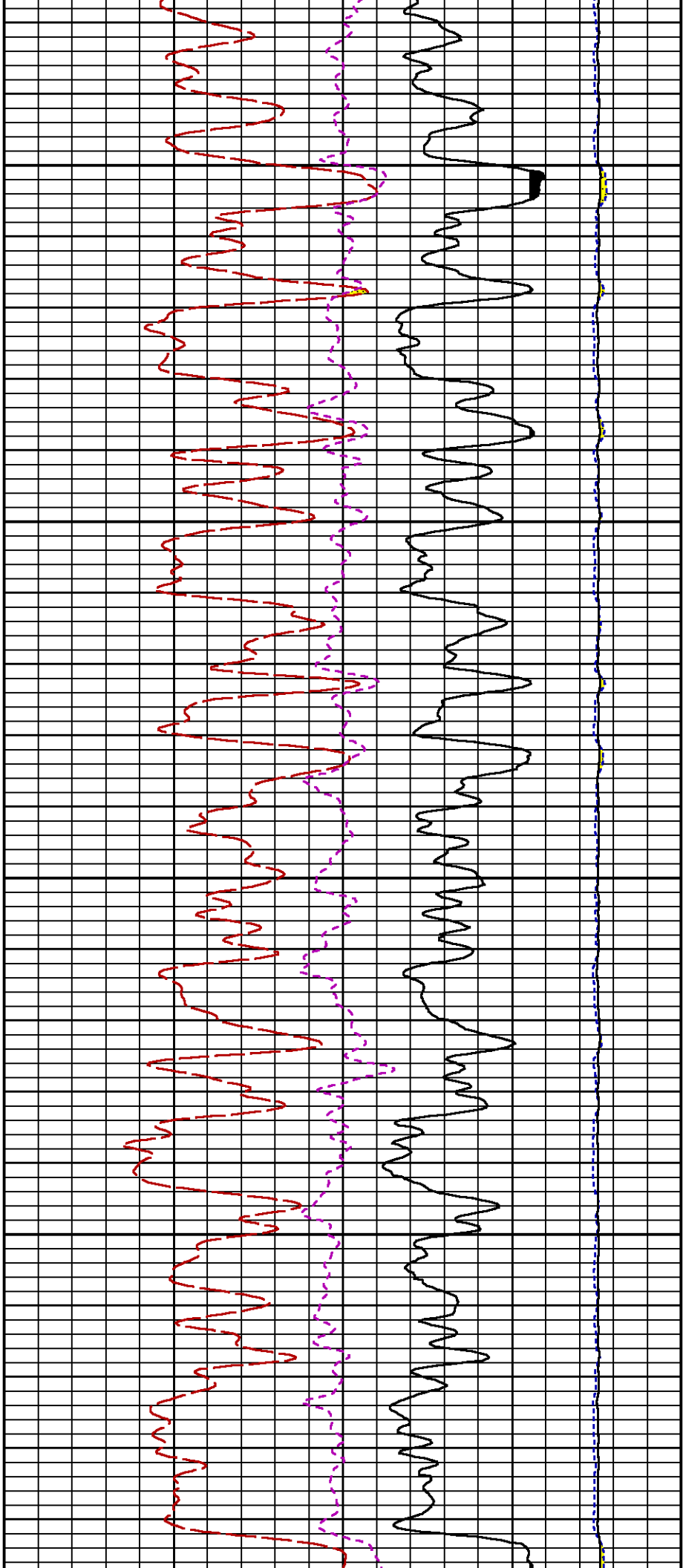


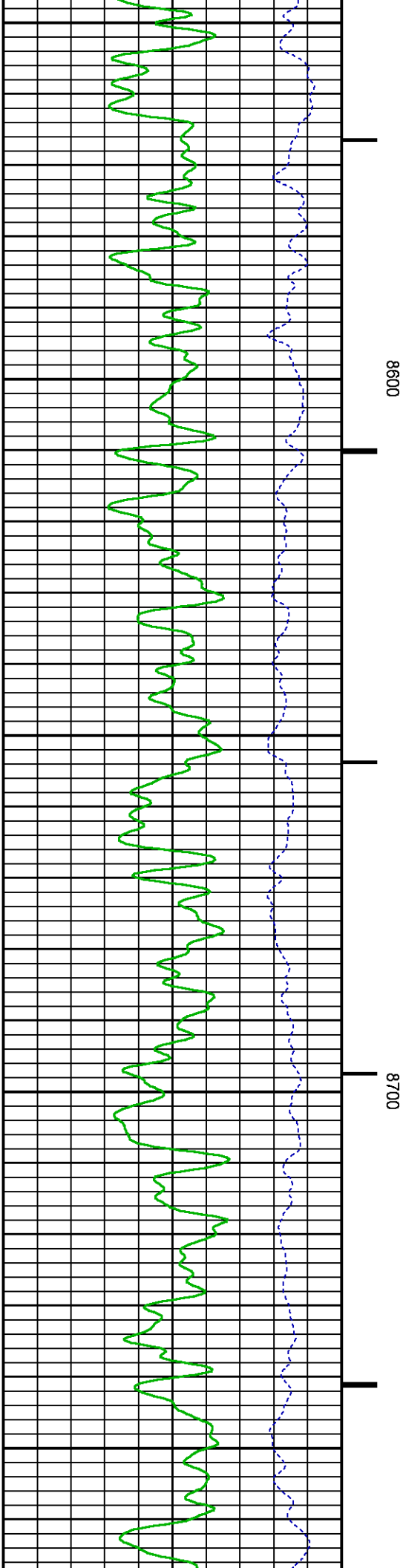
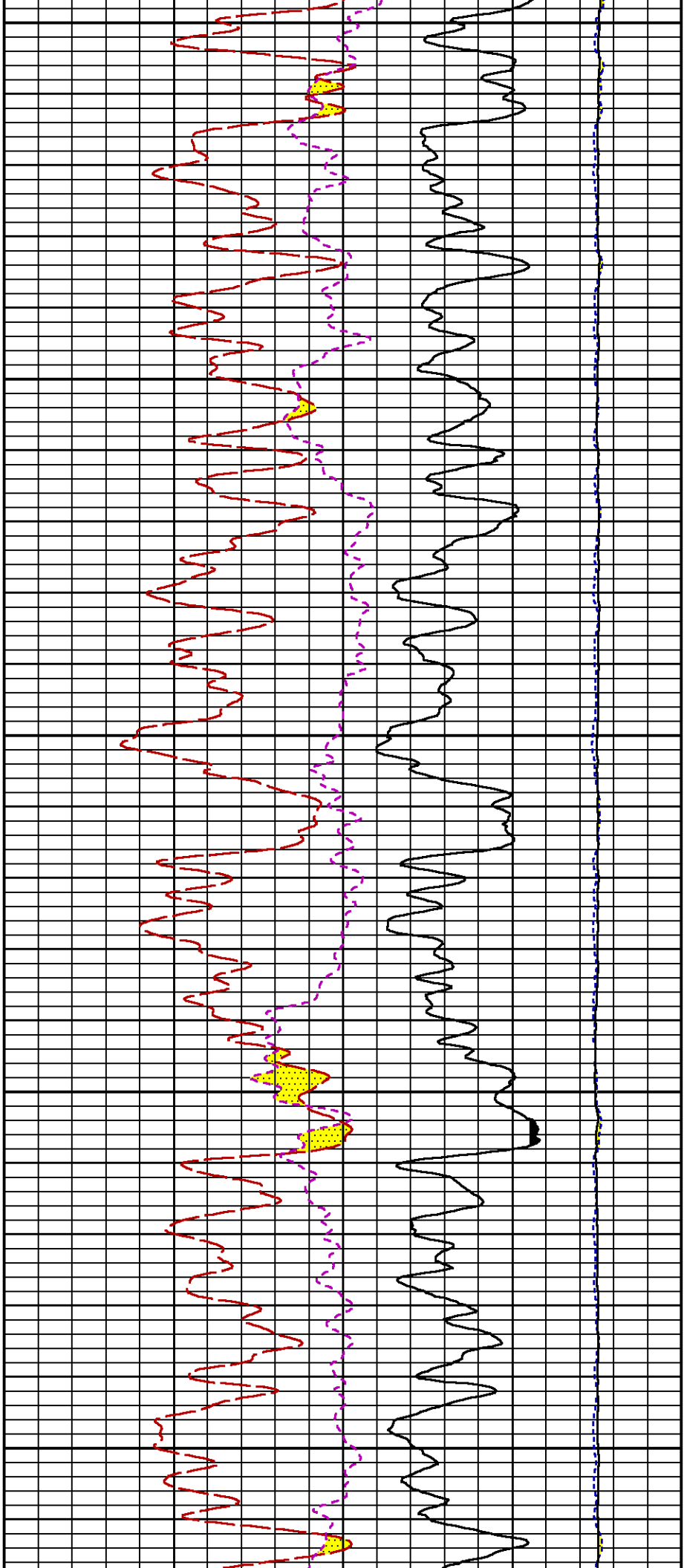


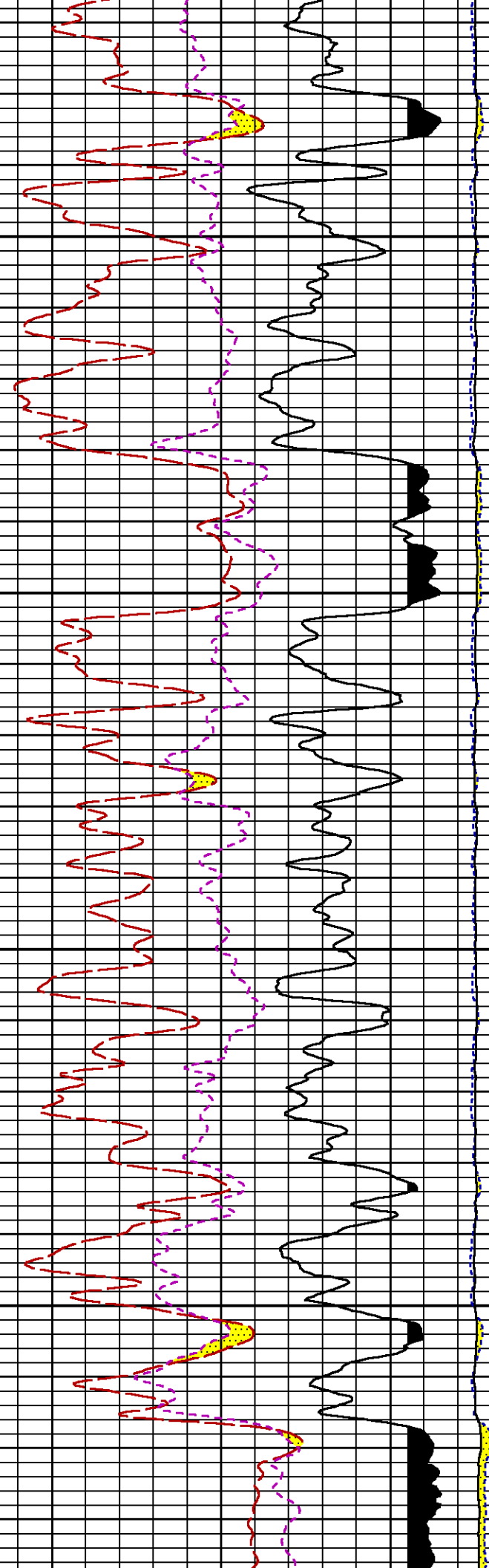
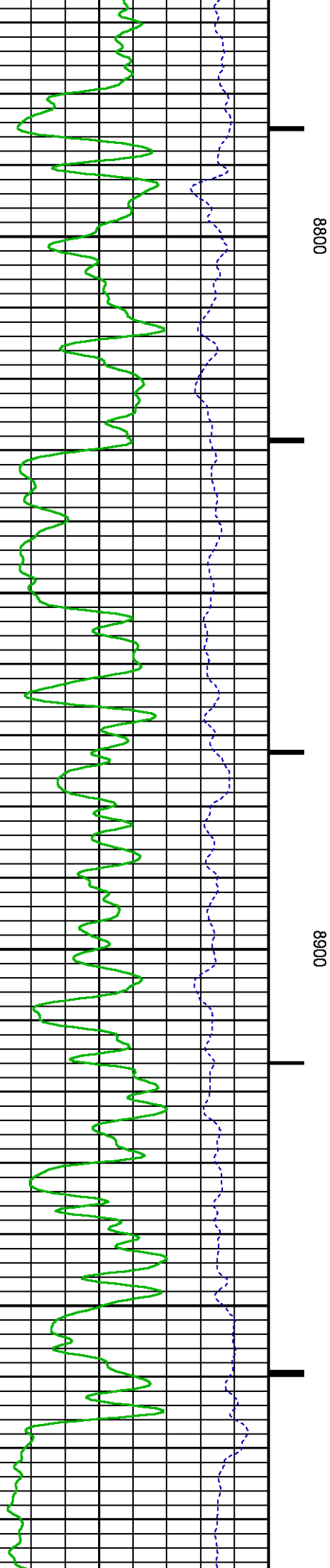


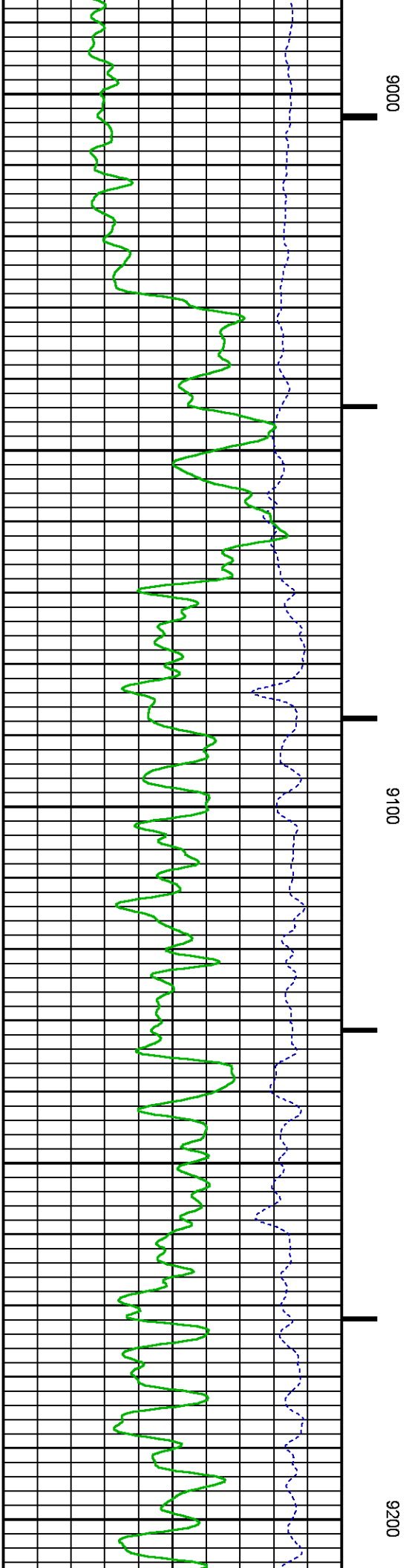
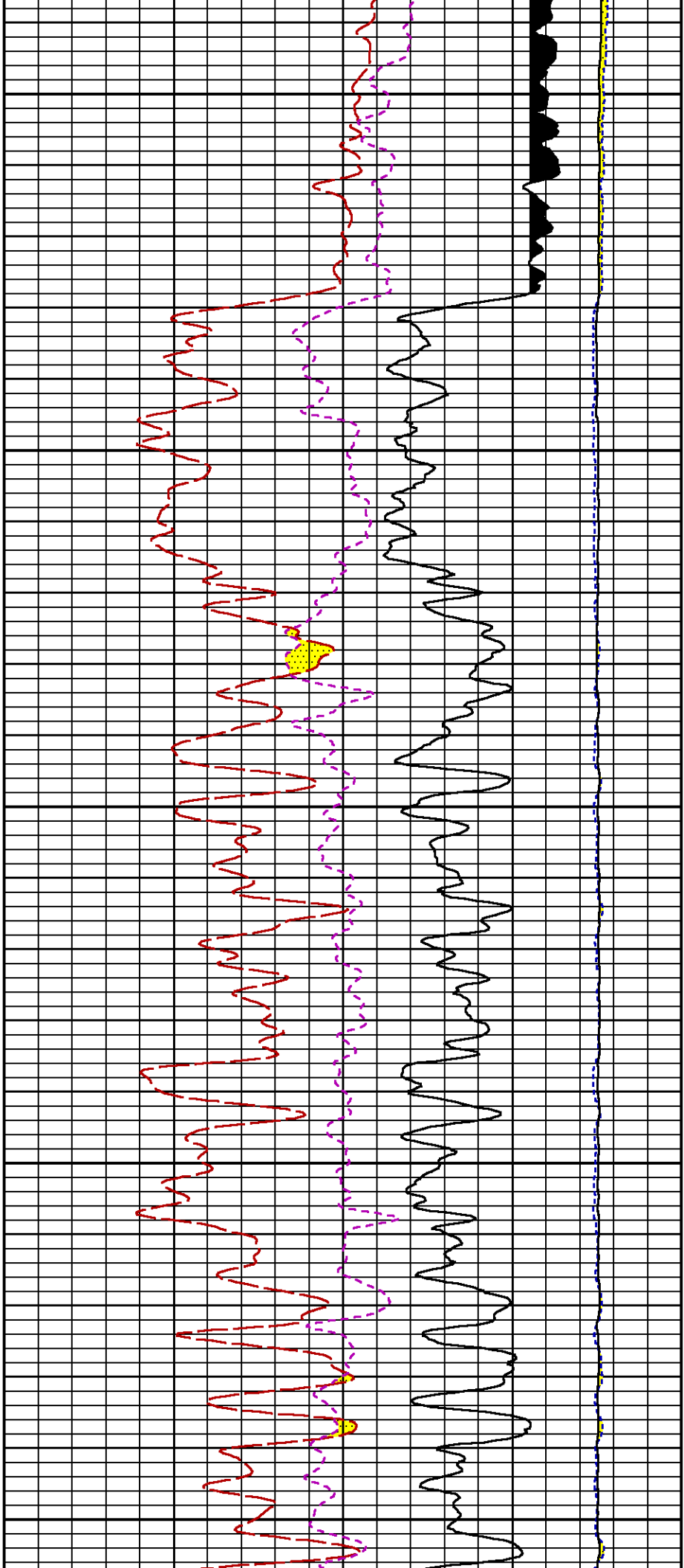


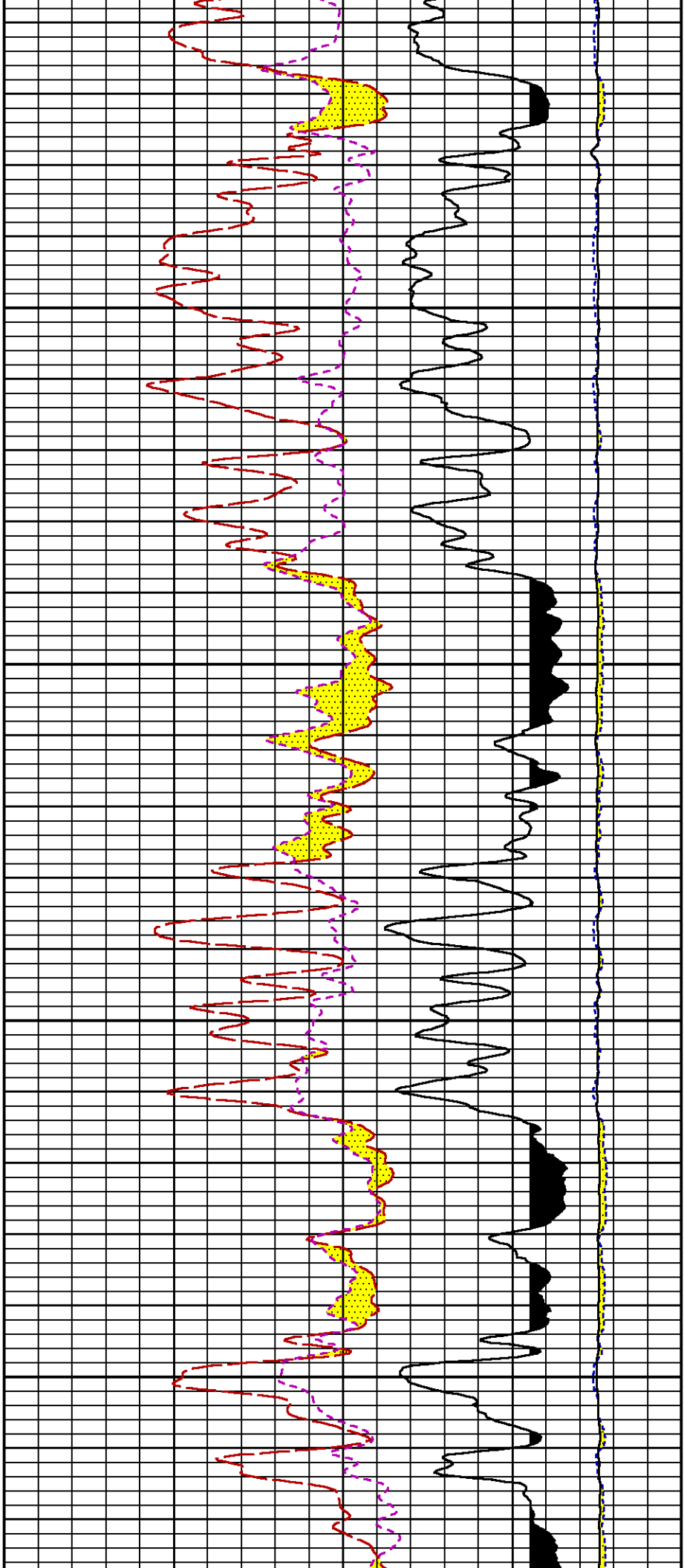






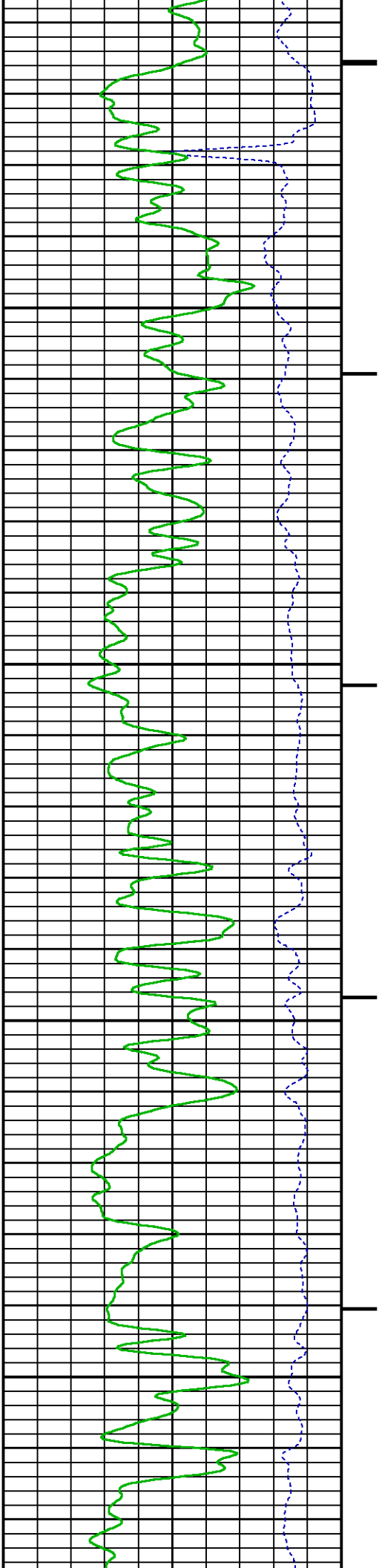






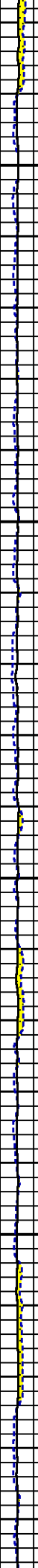
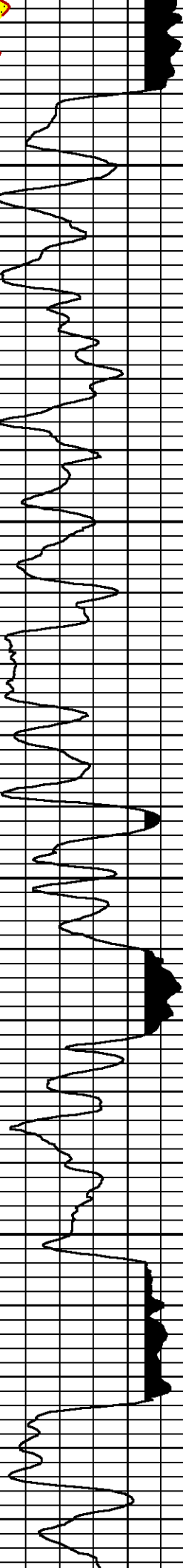
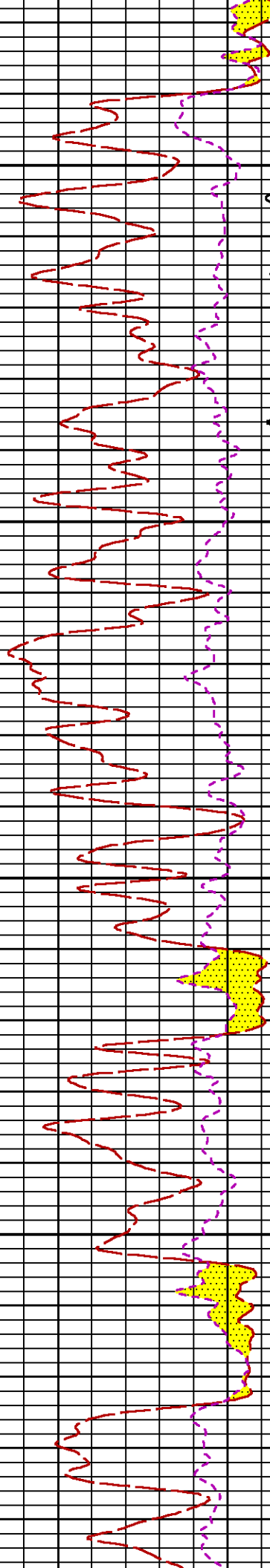
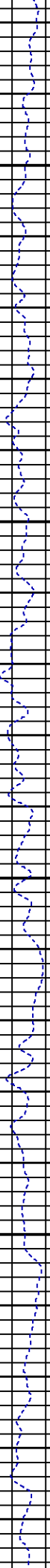
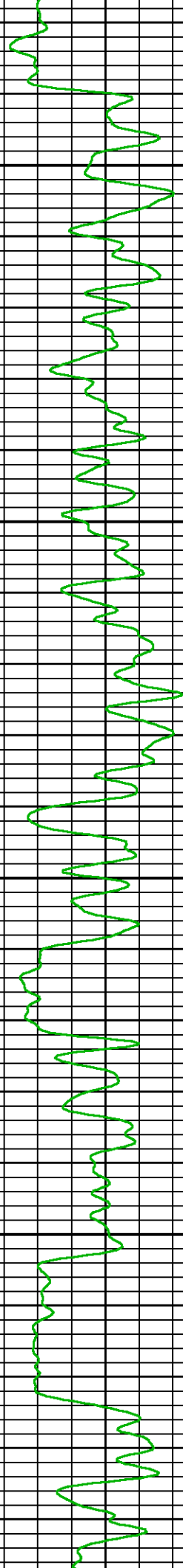
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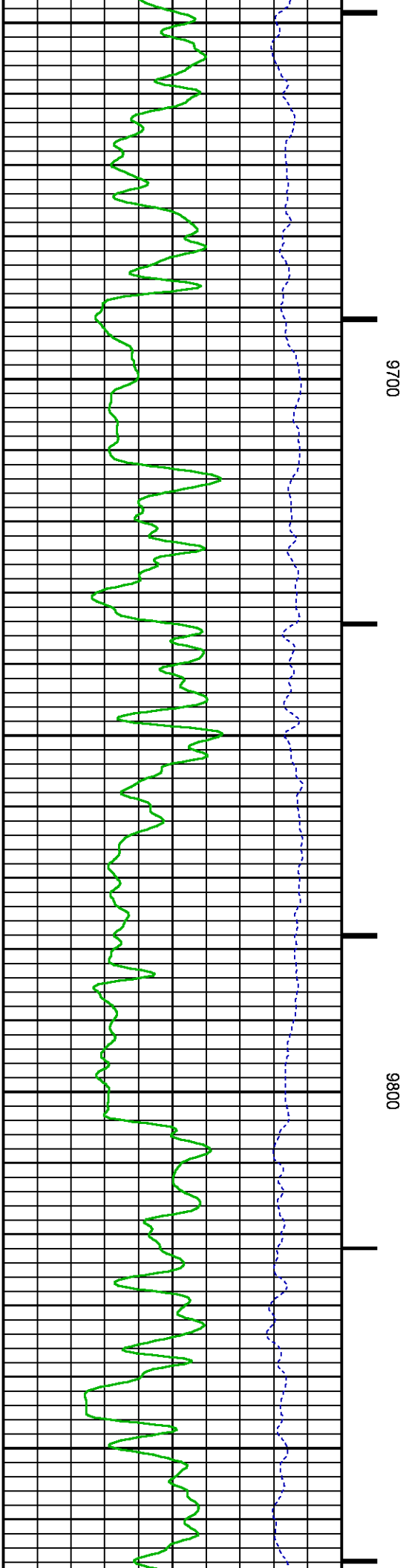
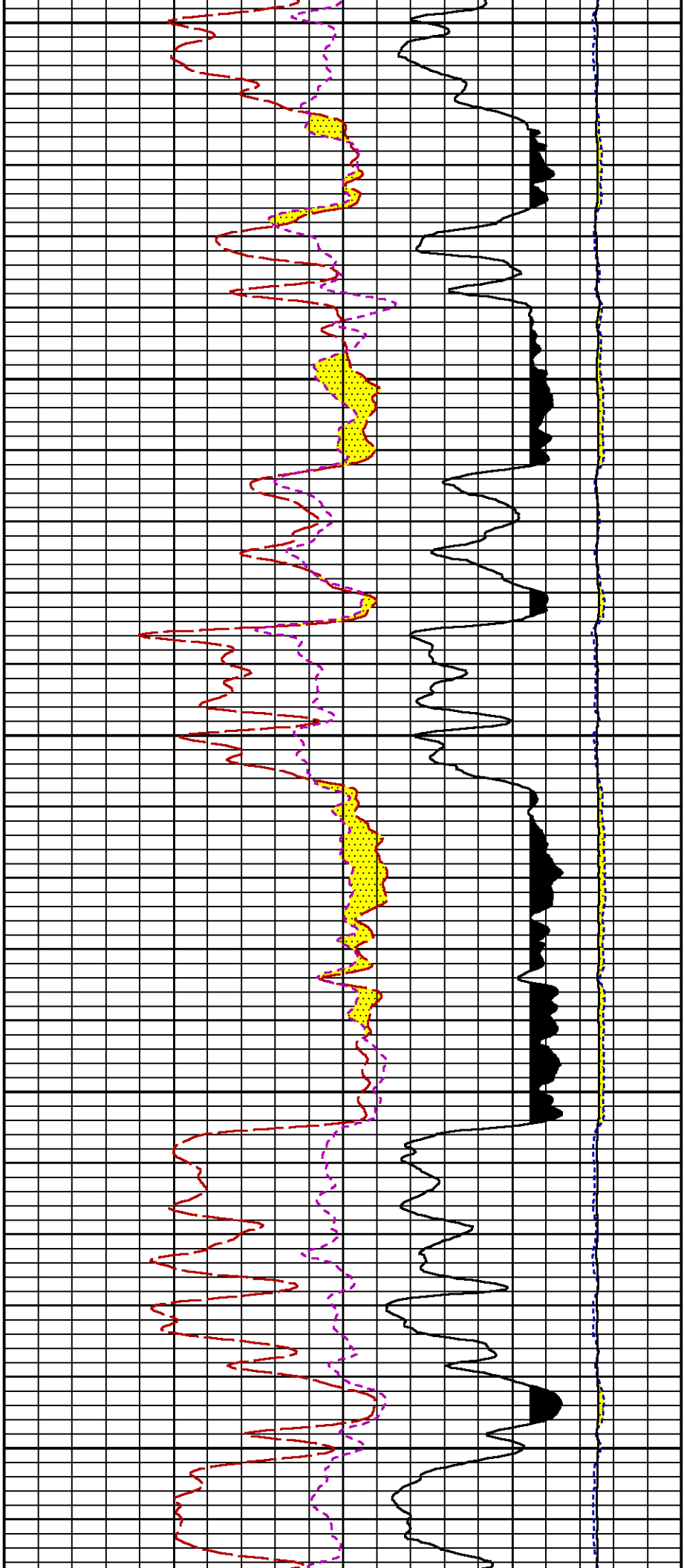
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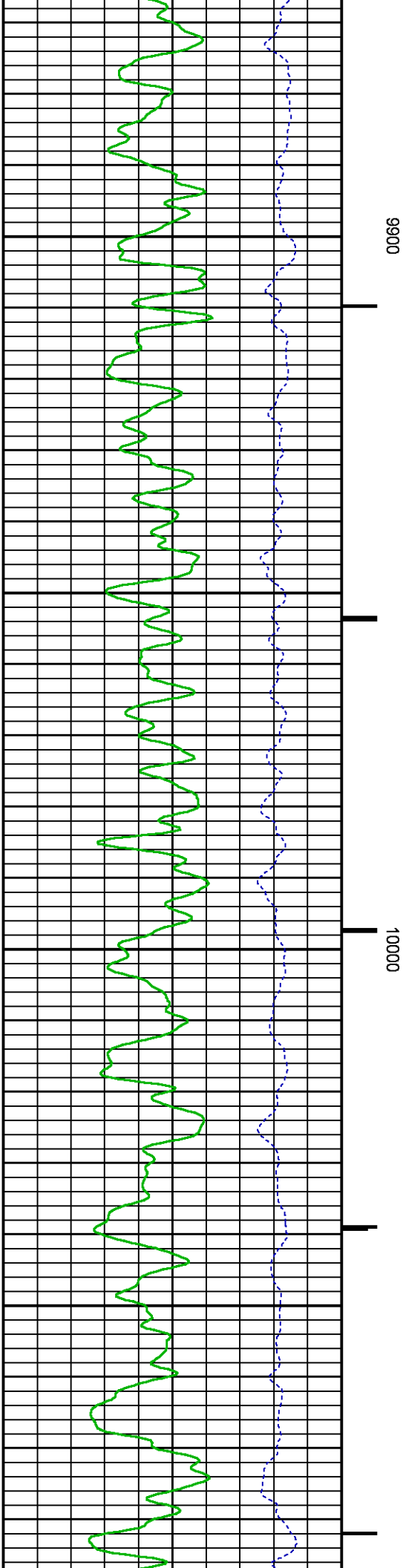
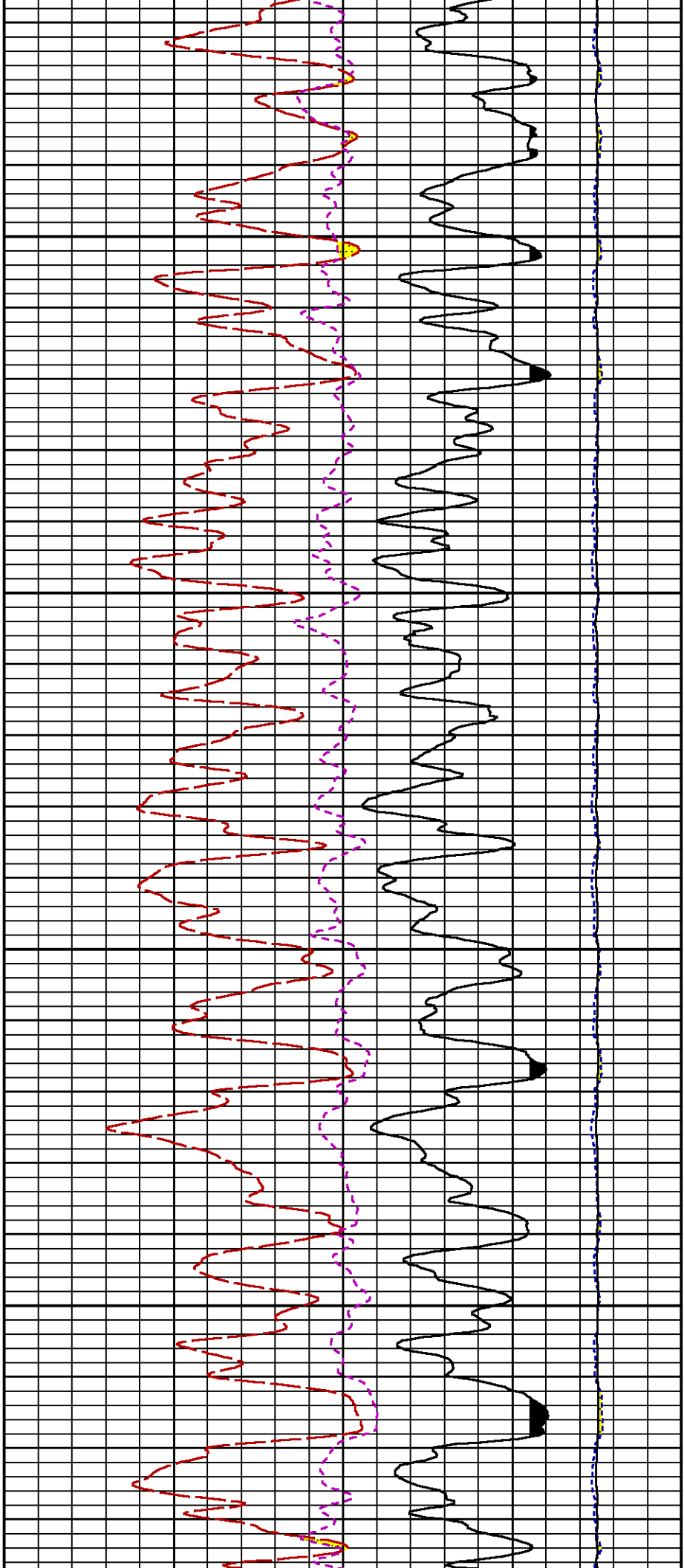


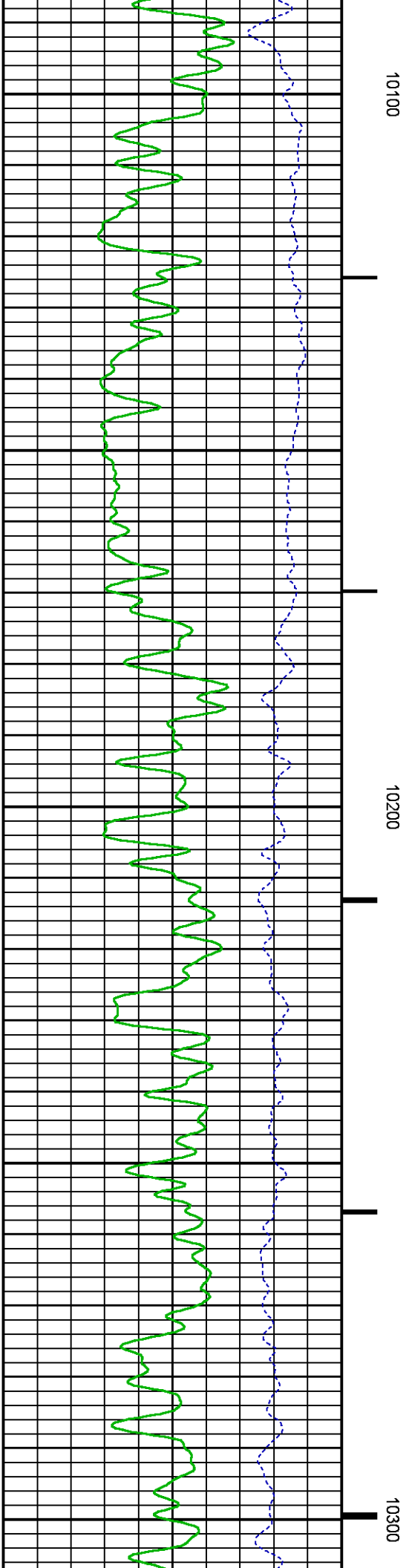
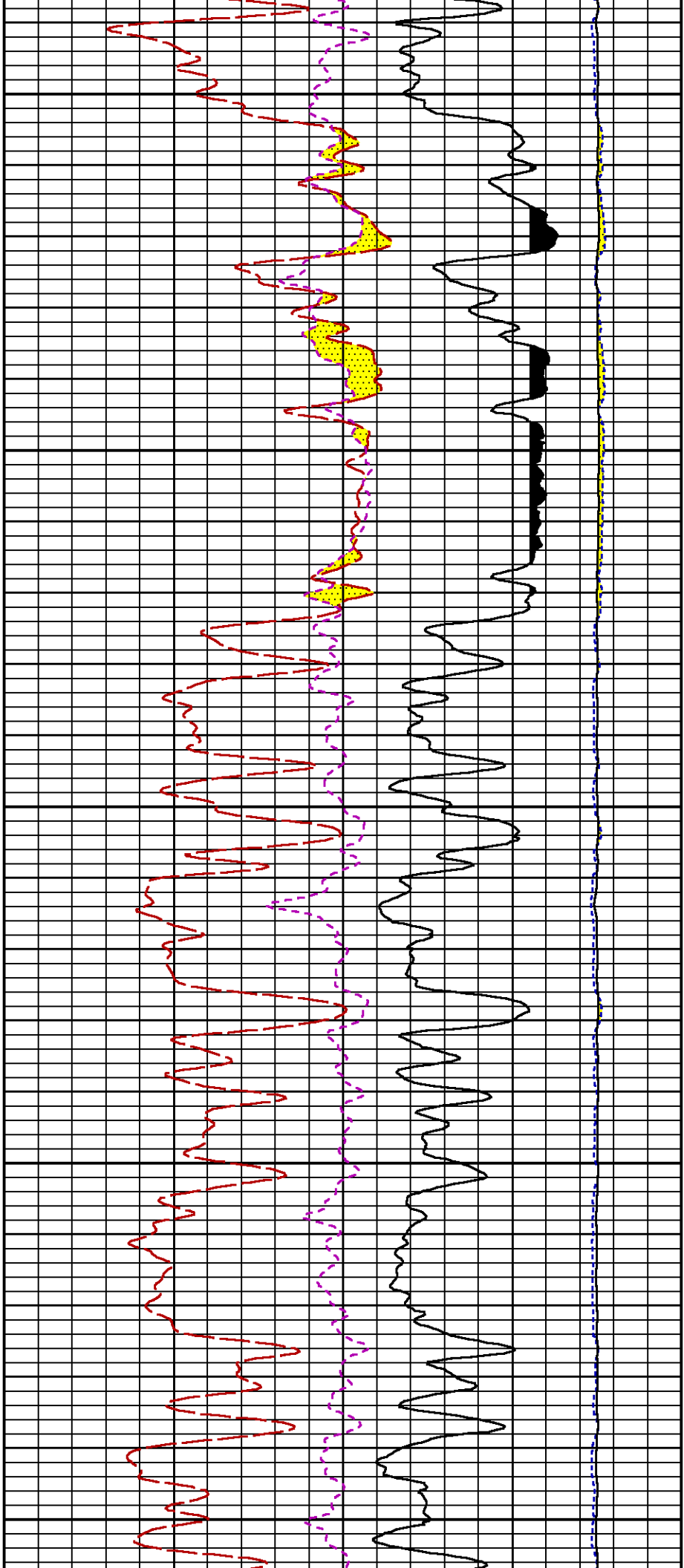
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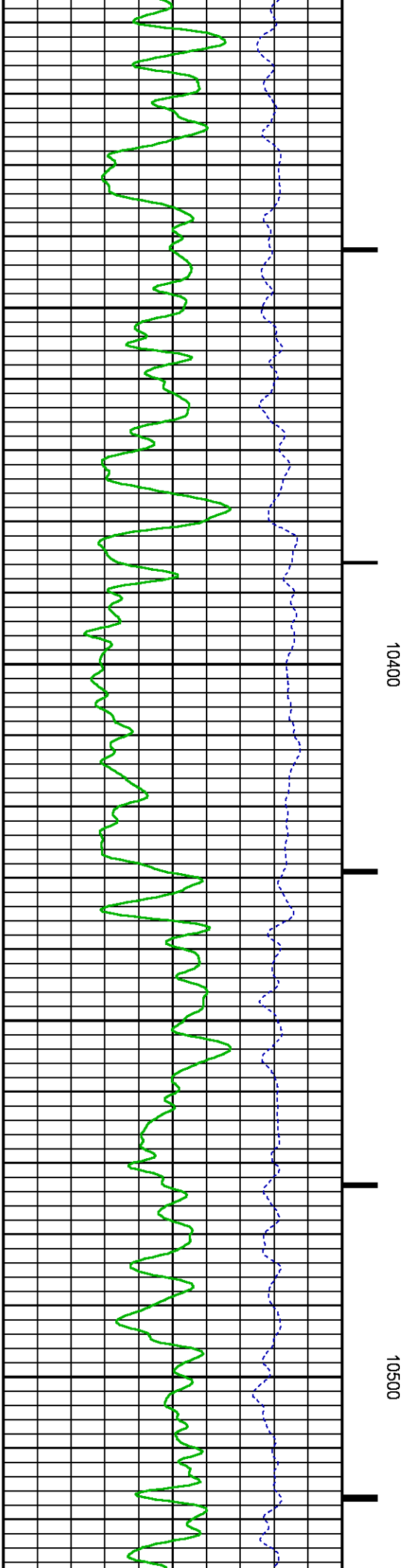
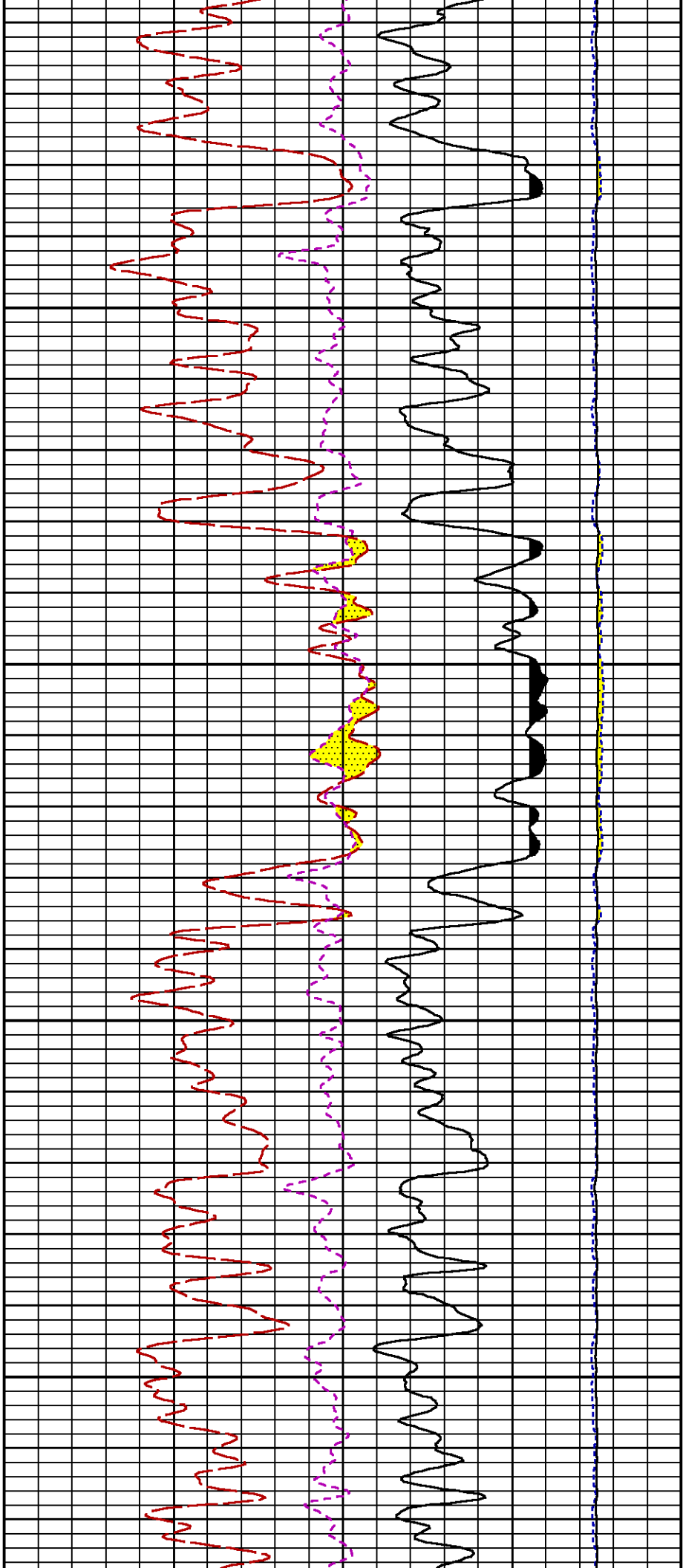
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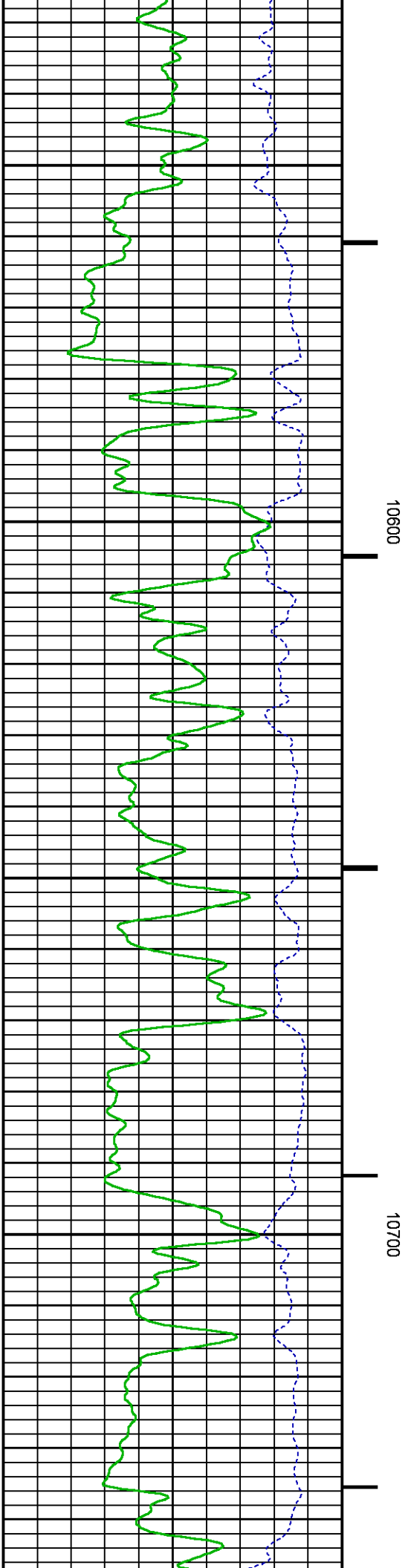
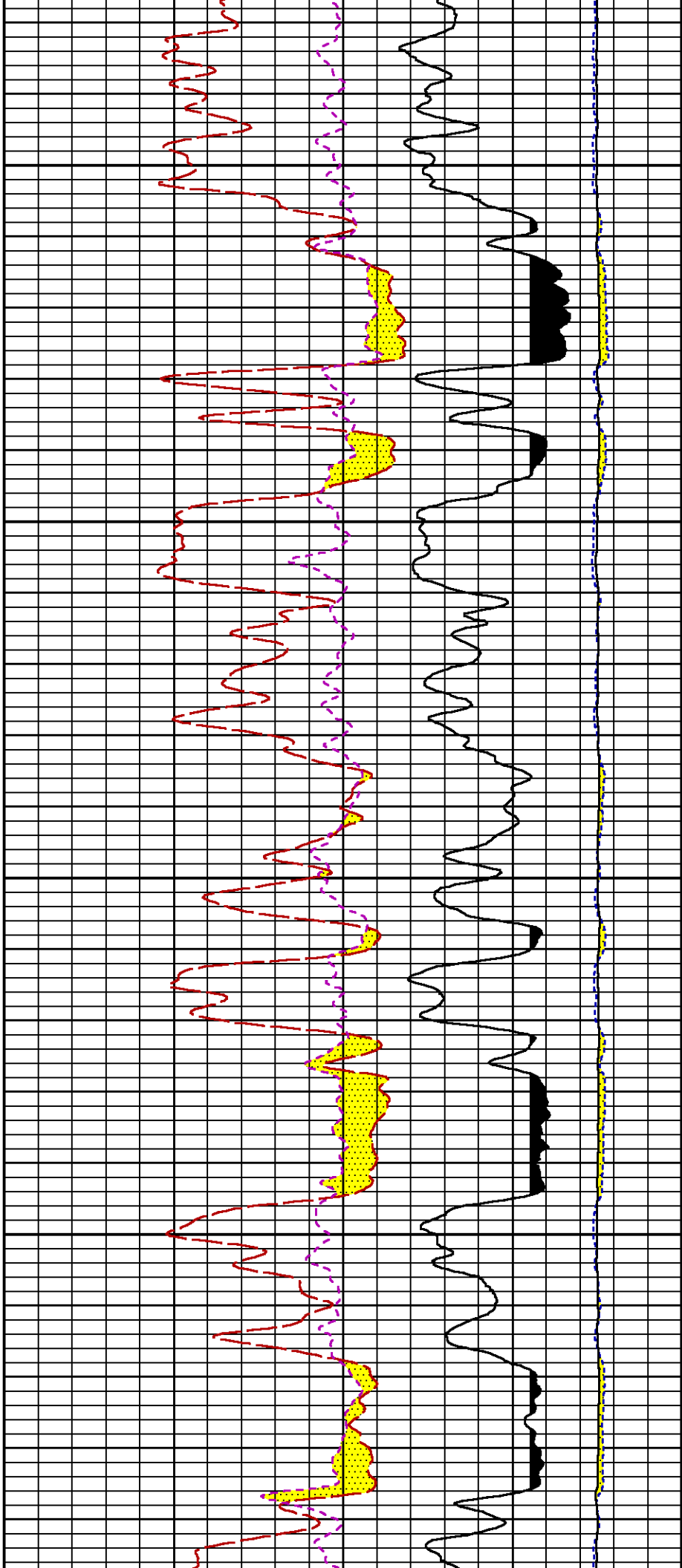


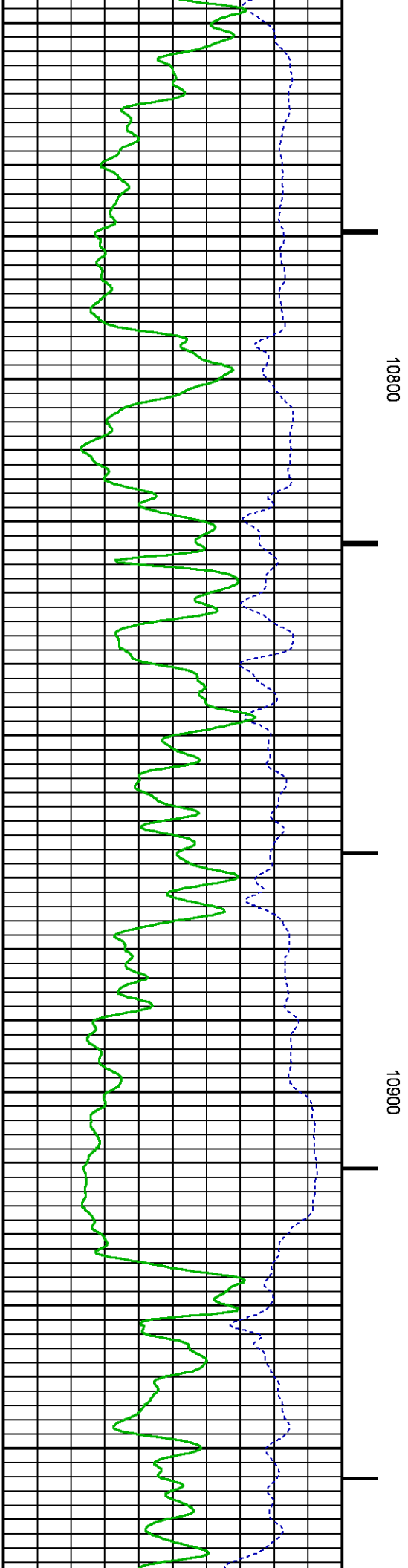
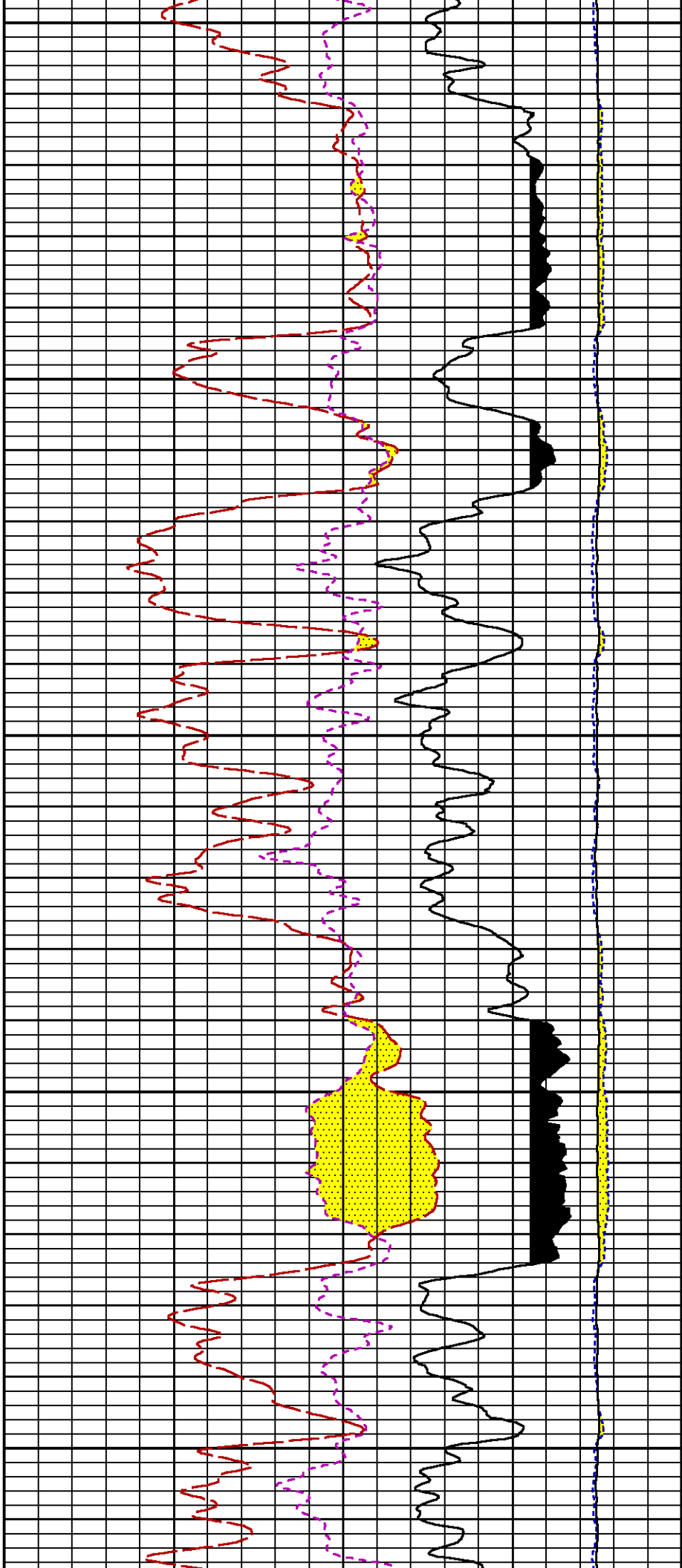


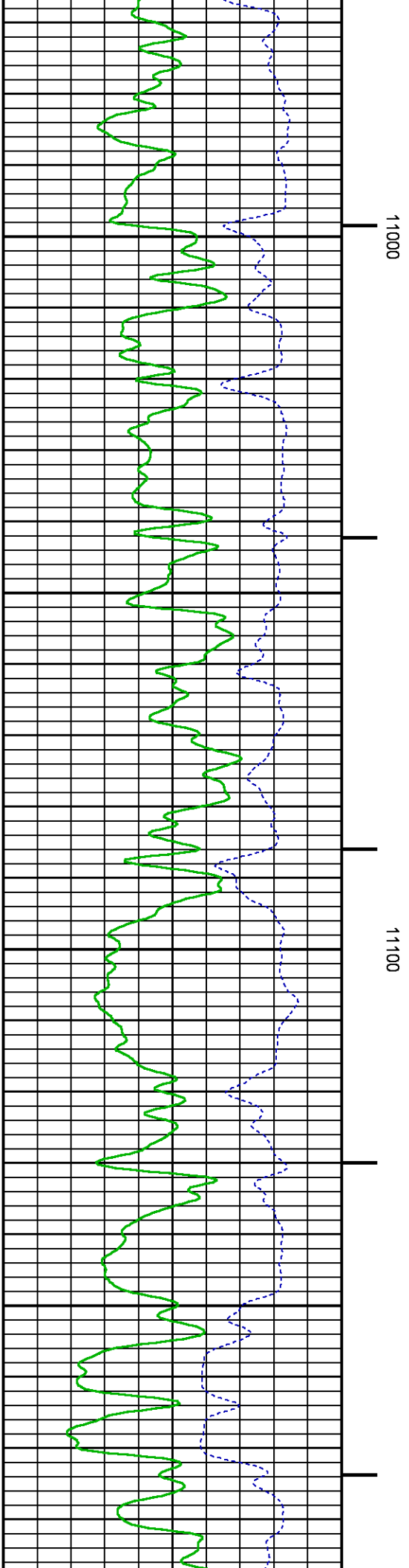
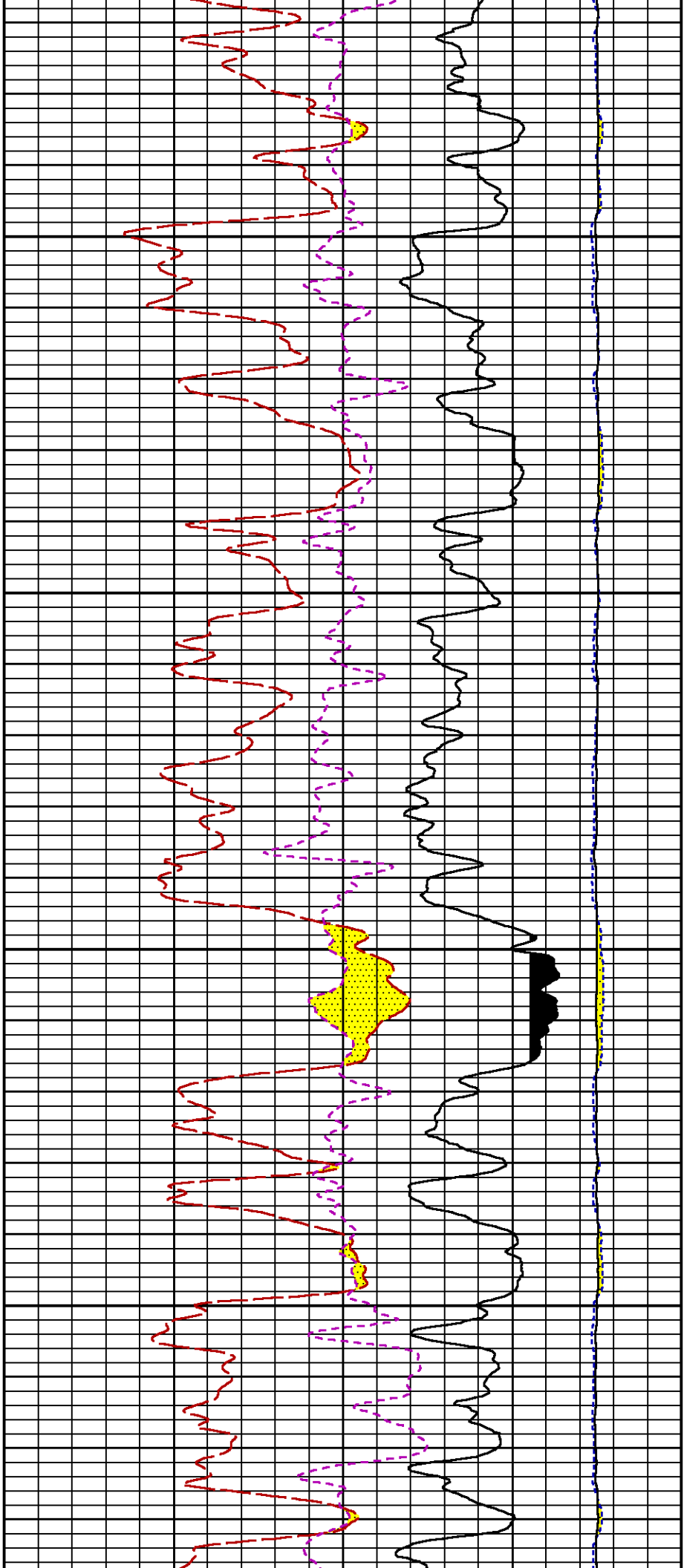


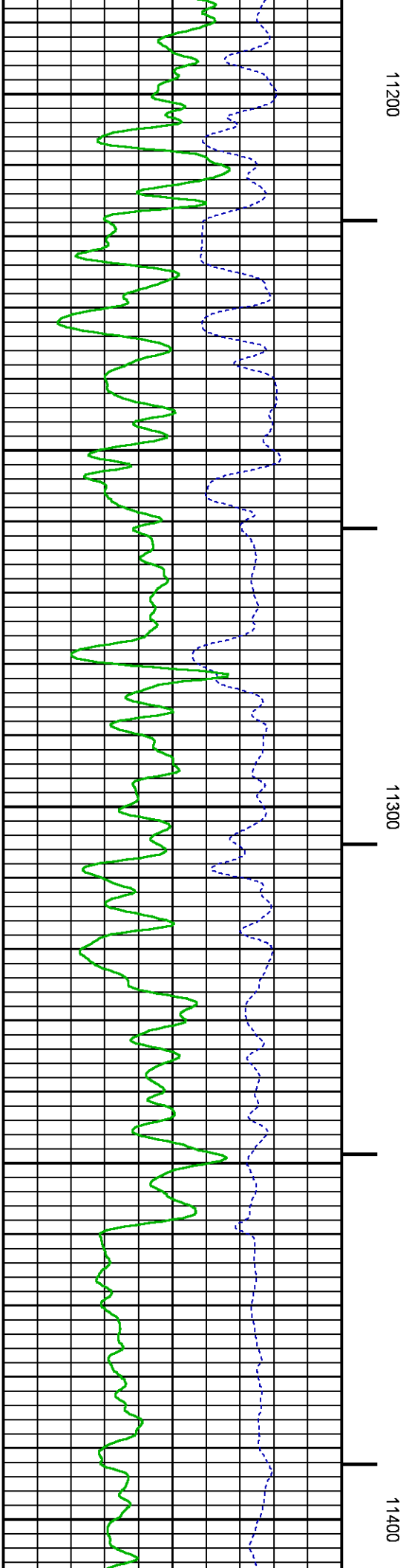
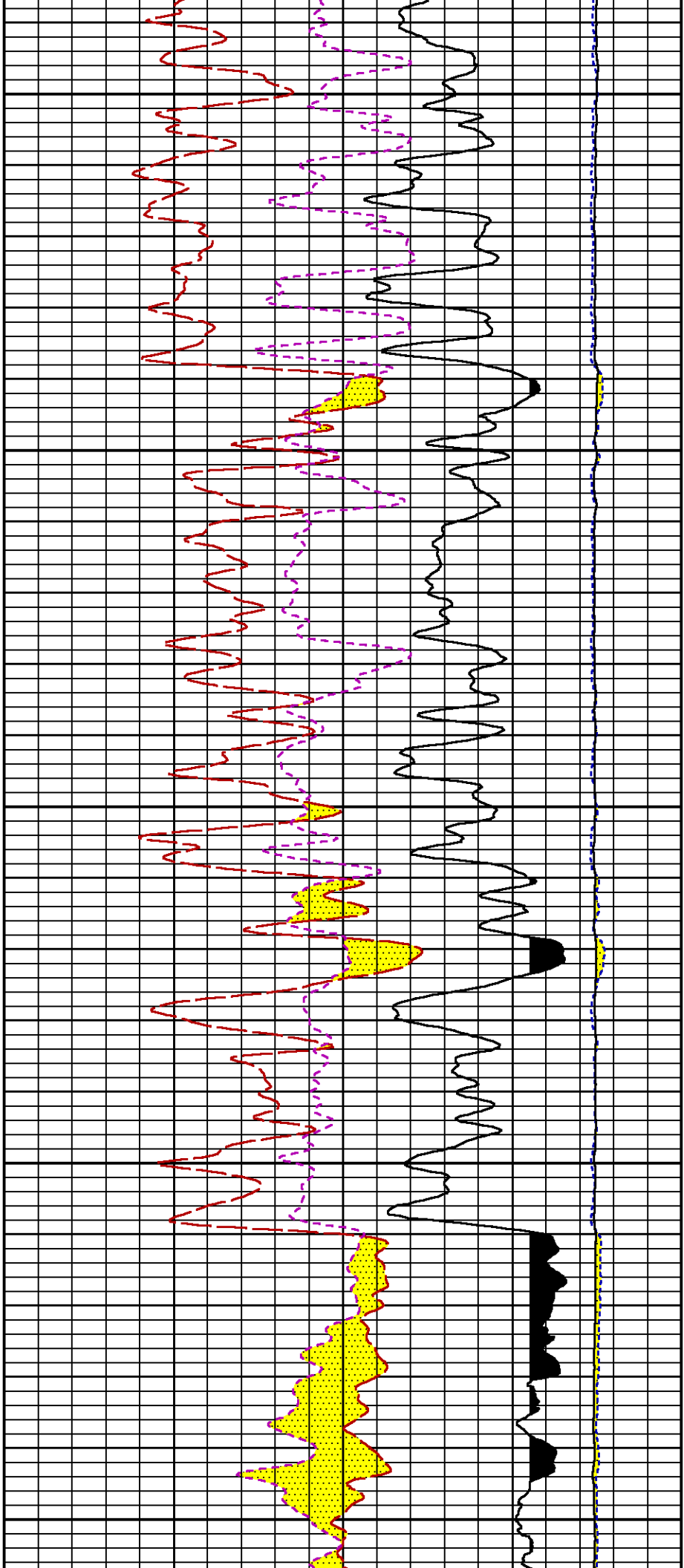


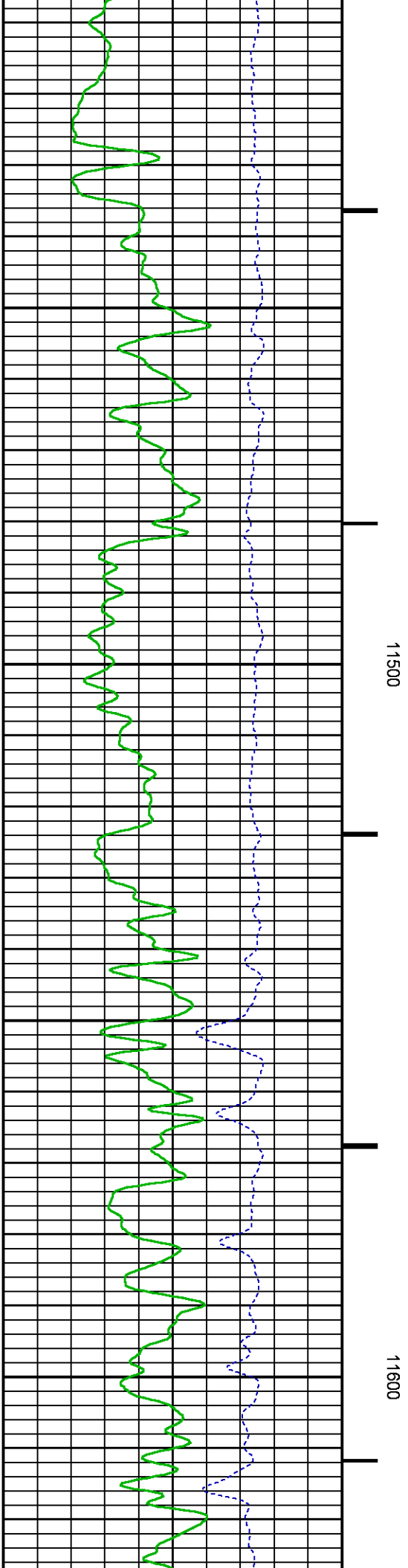
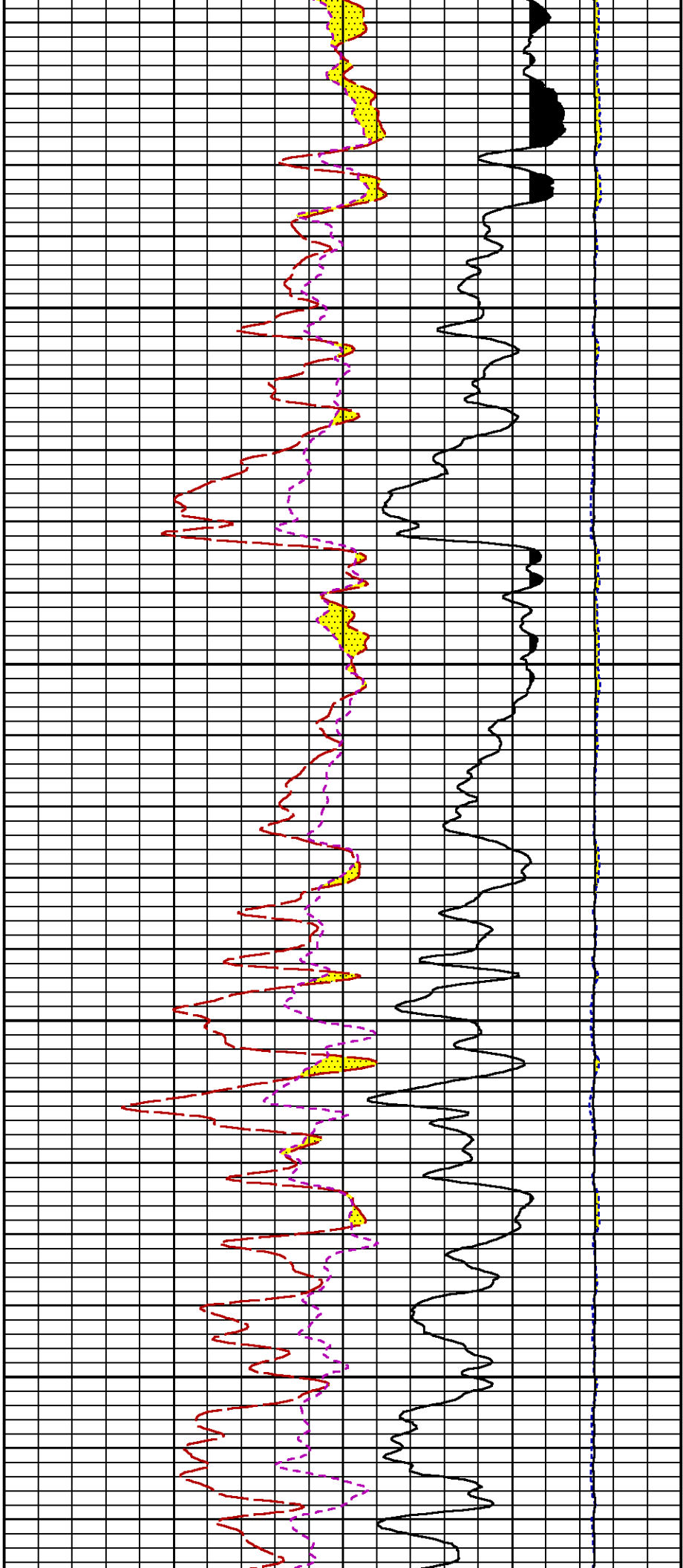


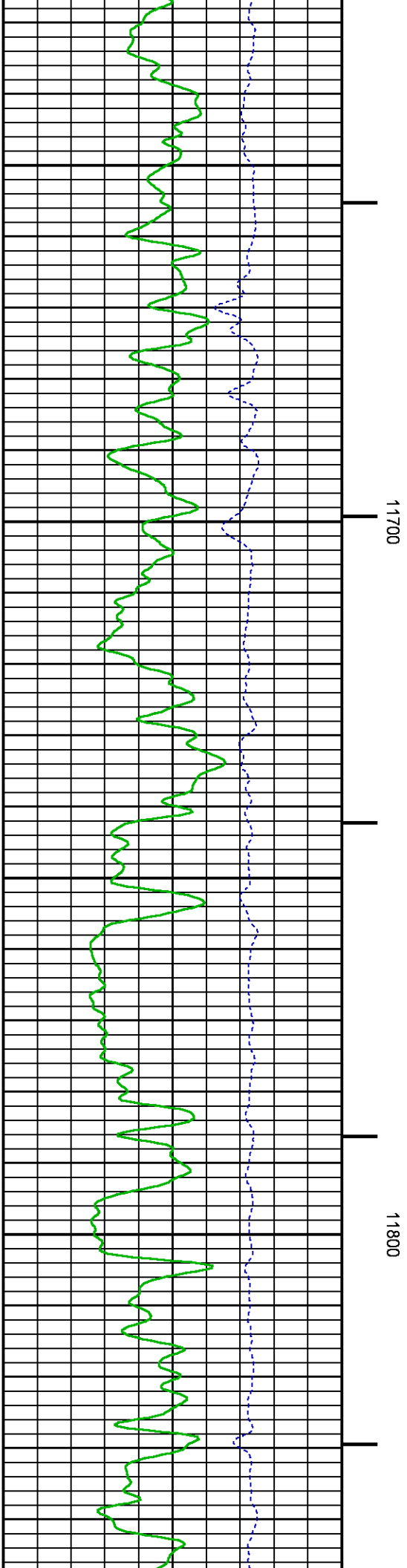
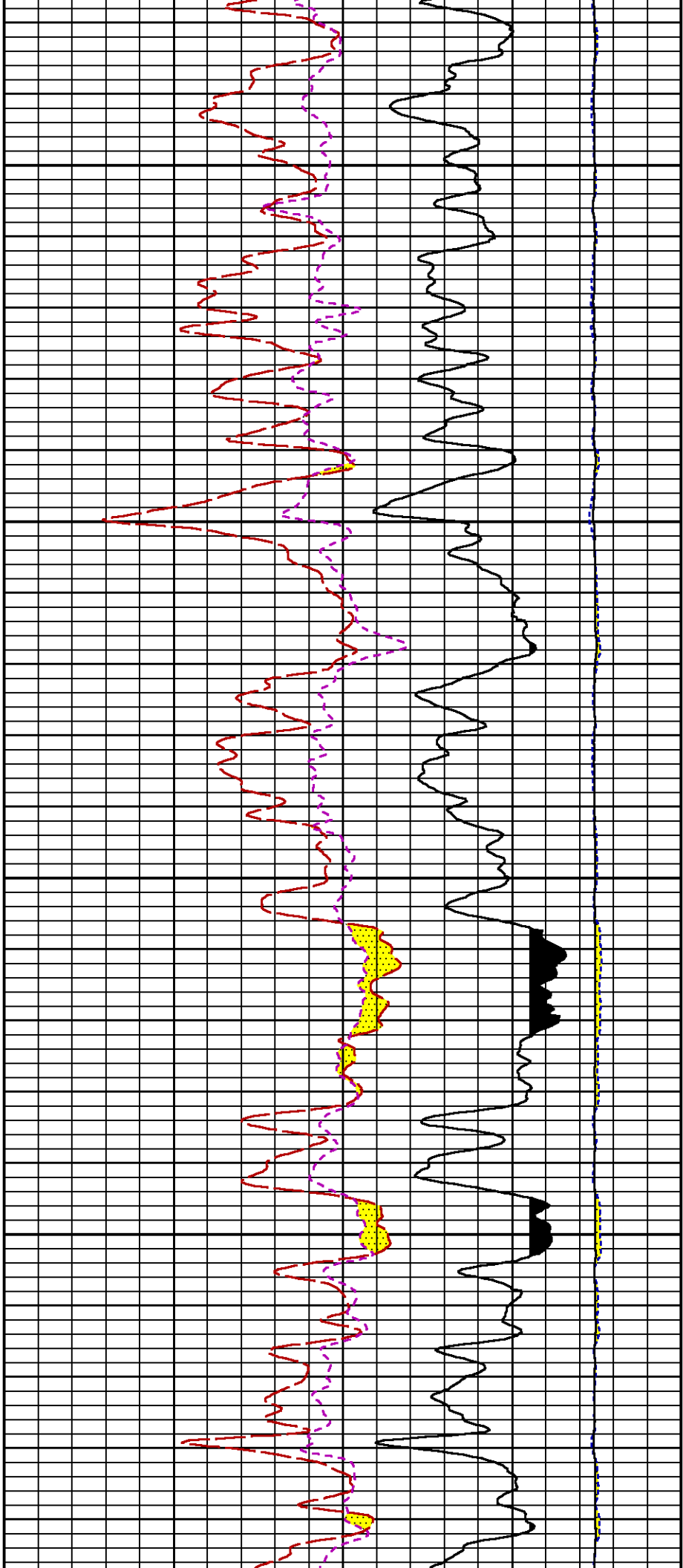


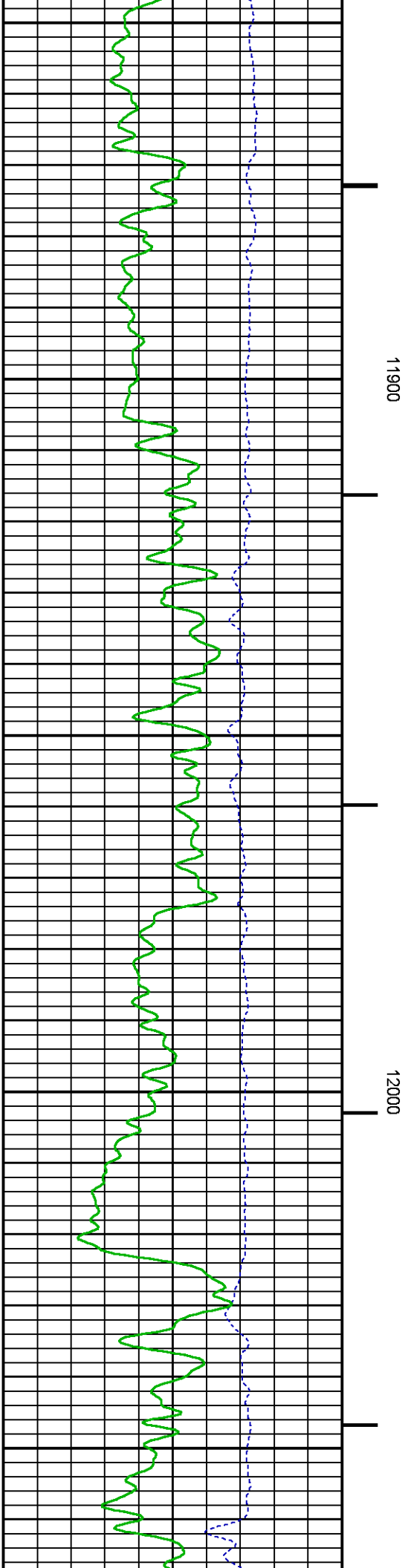
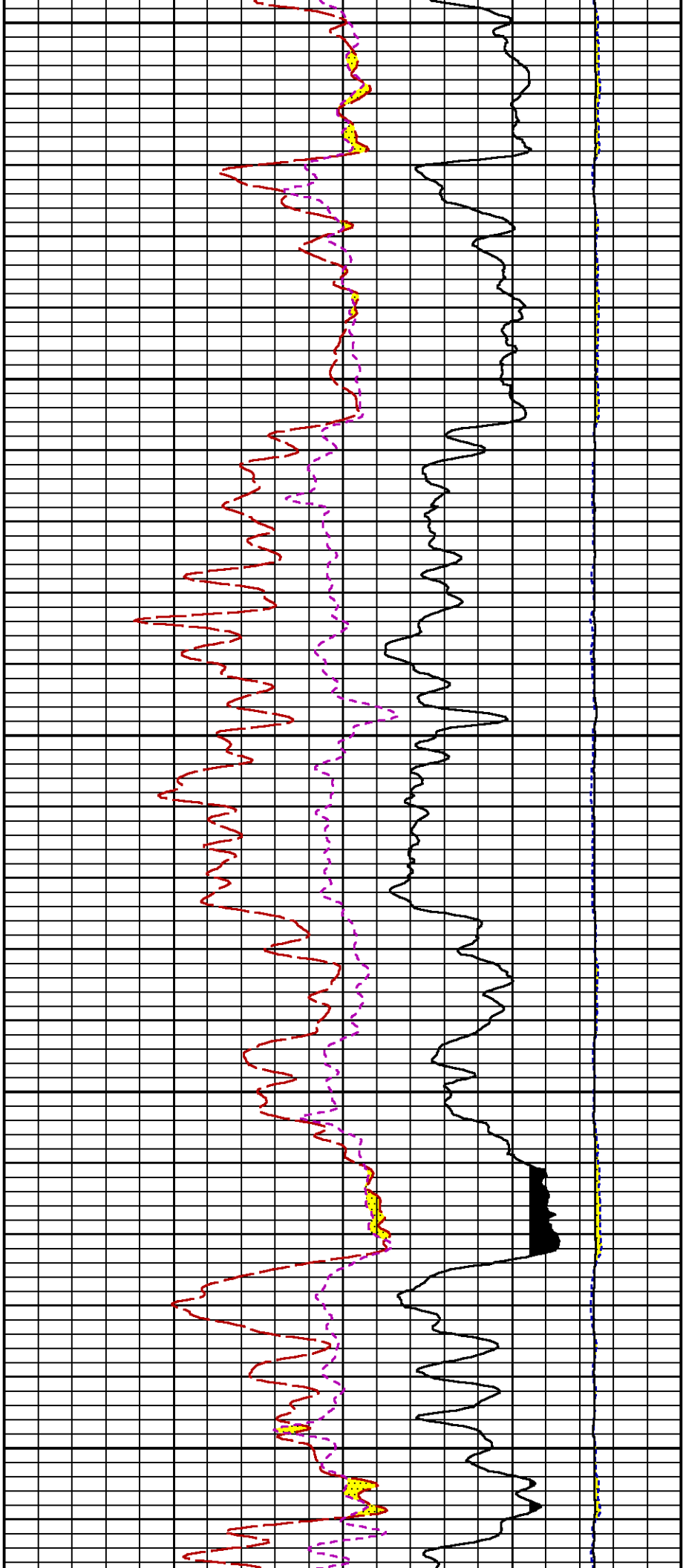


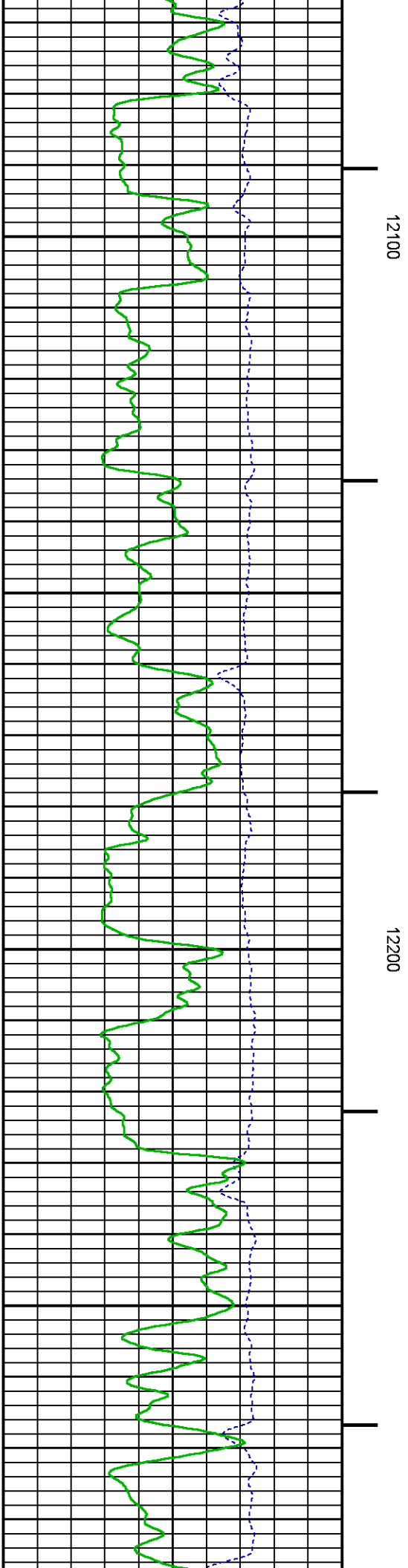
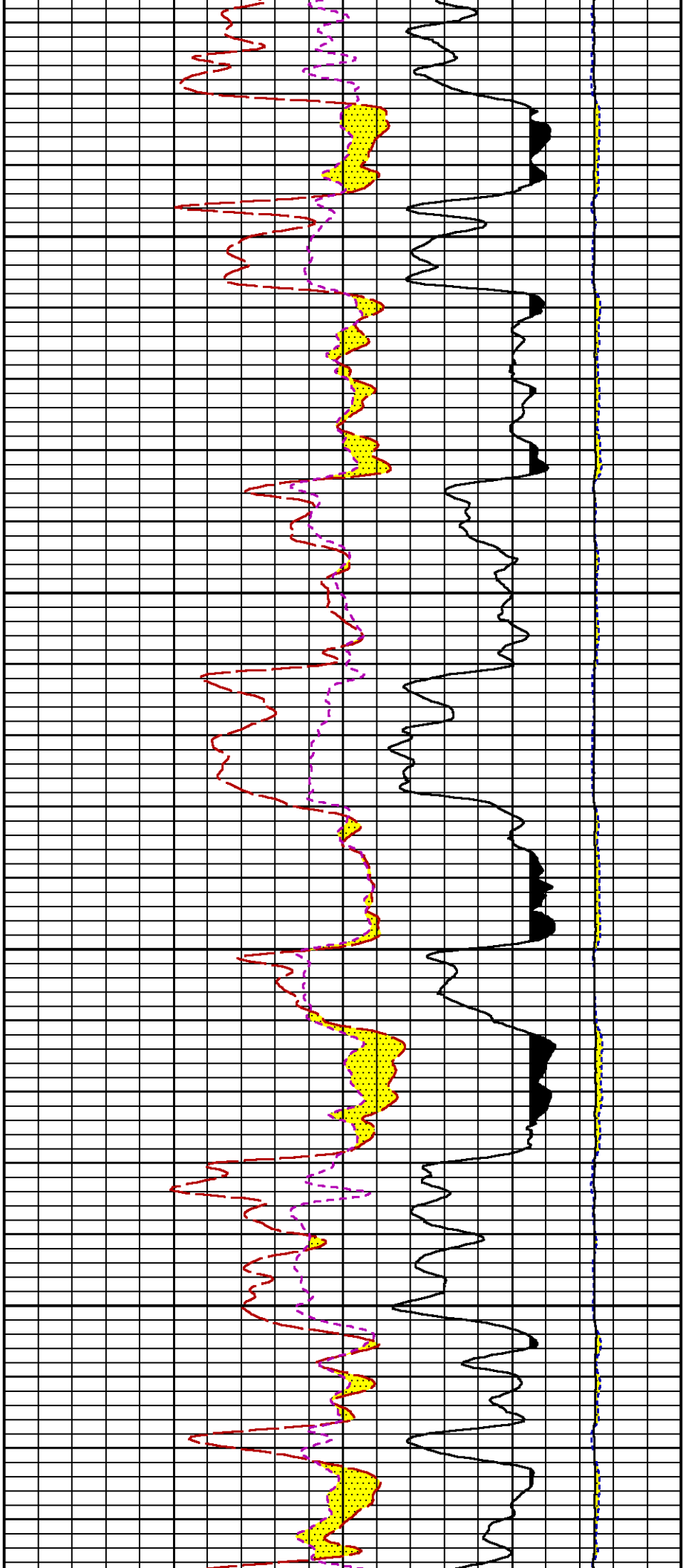


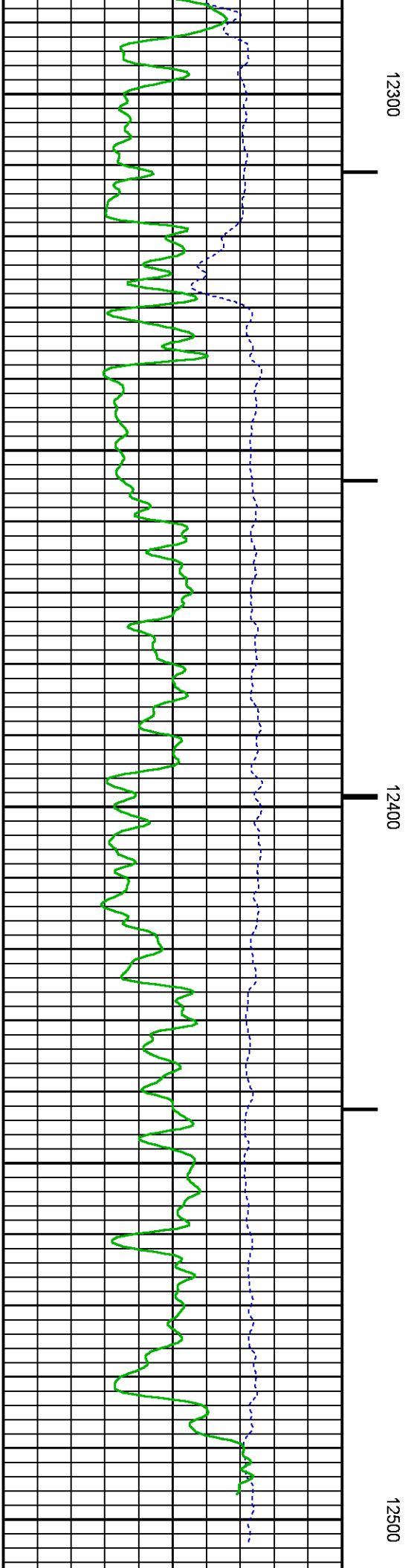
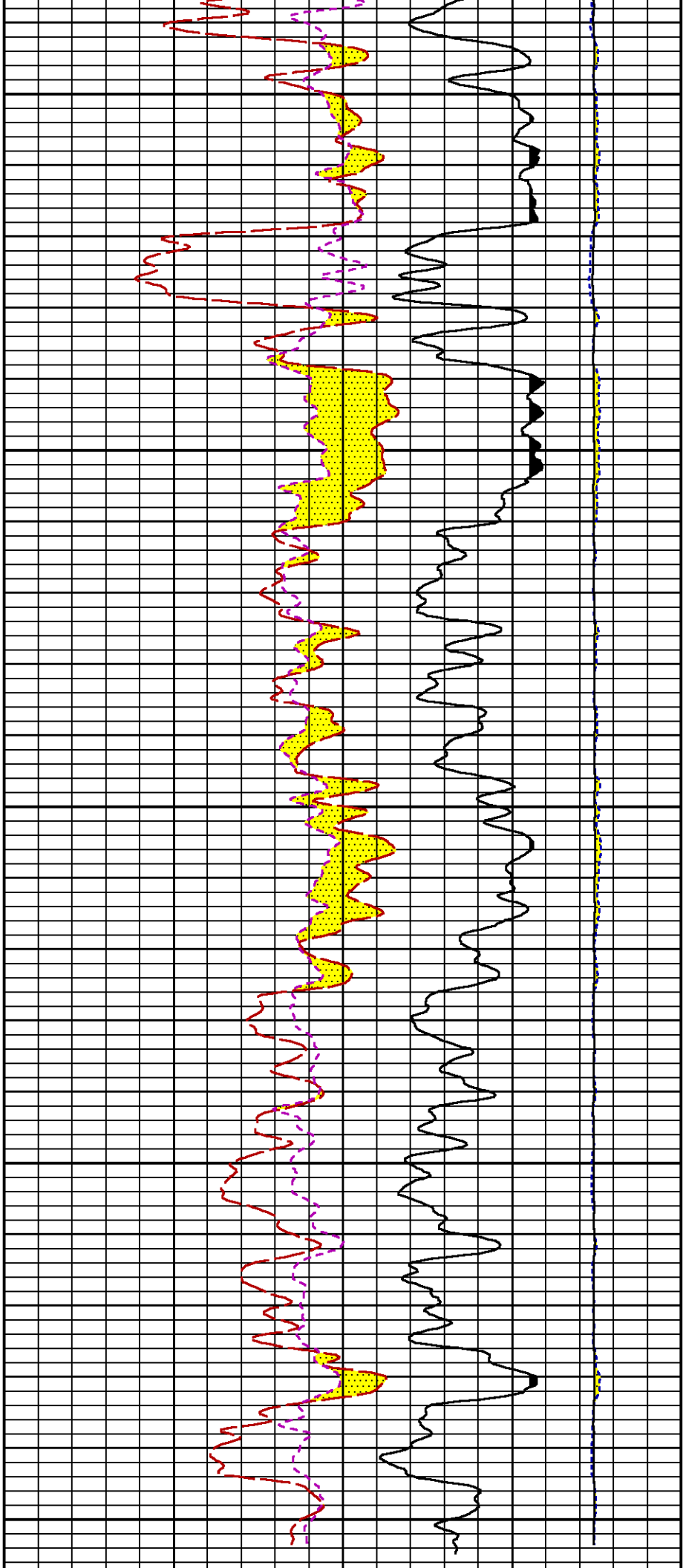


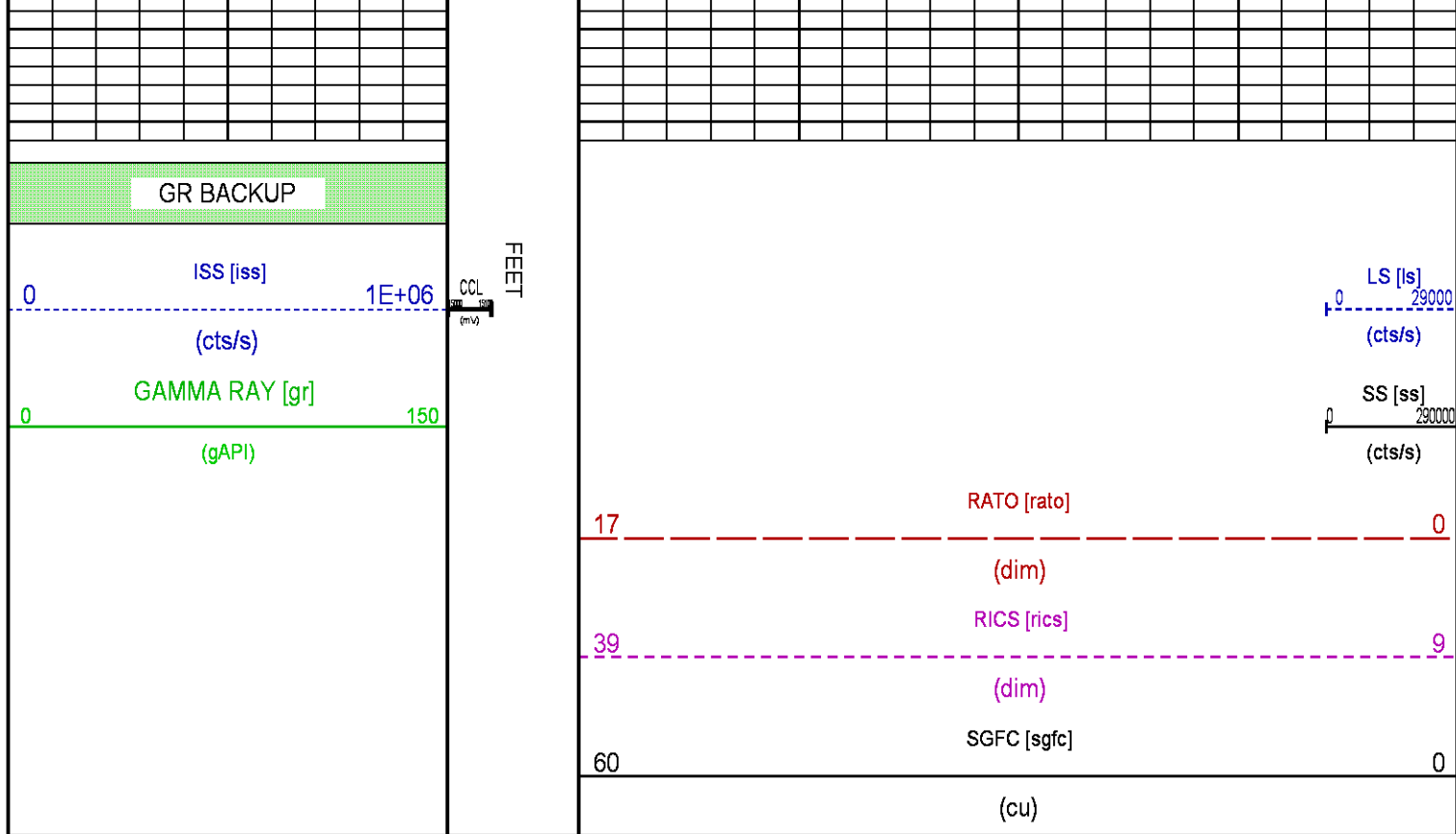












REPEAT SECTION PNC-3D MODE

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

Updates: 1 Patches: 7

Plotted: Fri May 29 19:40:24 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH096705/n353a01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 12038.250 ft BOTTOM DEPTH: 12270.250 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 29 13:34:51 2015	CASING COLLAR LOCATOR
F1:GR	May 29 13:34:51 2015	GAMMA RAY
F1:ISS	May 29 13:34:51 2015	INELASTIC SHORT SPACE COUNT RATE
F1:LS	May 29 13:34:51 2015	LONG SPACE COUNT RATE
F1:RATO	May 29 13:34:51 2015	SHORT/LONG SPACE COUNT RATE RATIO
F1:RICS	May 29 13:34:51 2015	SHORT SPACE INELASTIC TO CAPTURE COUNT RATE RATIO (ISS/CSS)
F1:SGFC	May 29 13:34:51 2015	CORRECTED FORMATION SIGMA
F1:SS	May 29 13:34:51 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/CH096705/RPM_REPEAT.fvpdf [5"/100' Scale]
 Plot Interval : 12011.8 - 12253.5 Feet

Data File 1 : F1 : cas6685:/dat1a/CH096705/n353a01_REPEAT.xtf
 Created On : May 29 13:34:51 2015
 Company : WPX ENERGY
 Well : FEDERAL RGU 443-26-198
 Field : SULPHUR CREEK
 File Interval : 12011 - 12268.5 Feet
 OCT : n353a

GR BACKUP

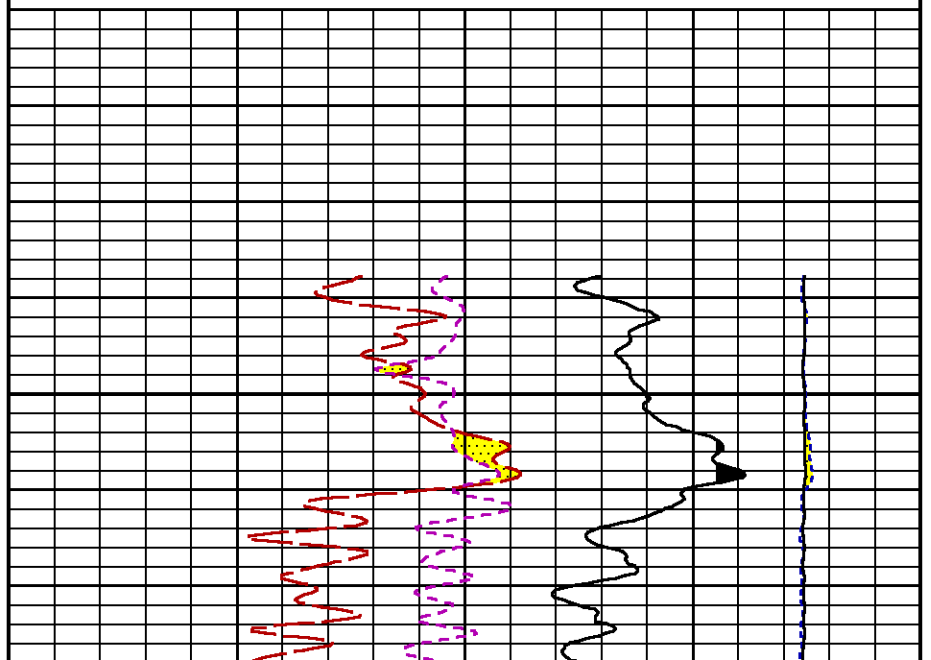
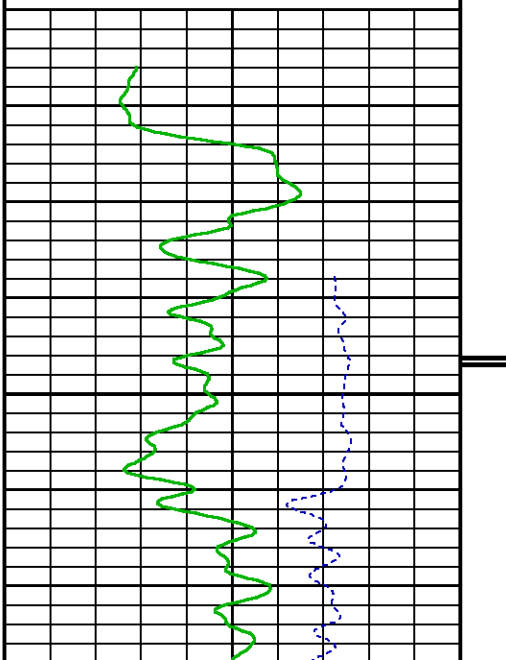
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 (cts/s)
 GAMMA RAY [gr] 0 150
 (gAPI)

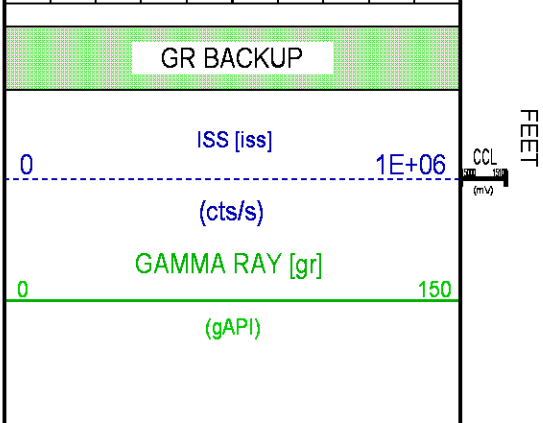
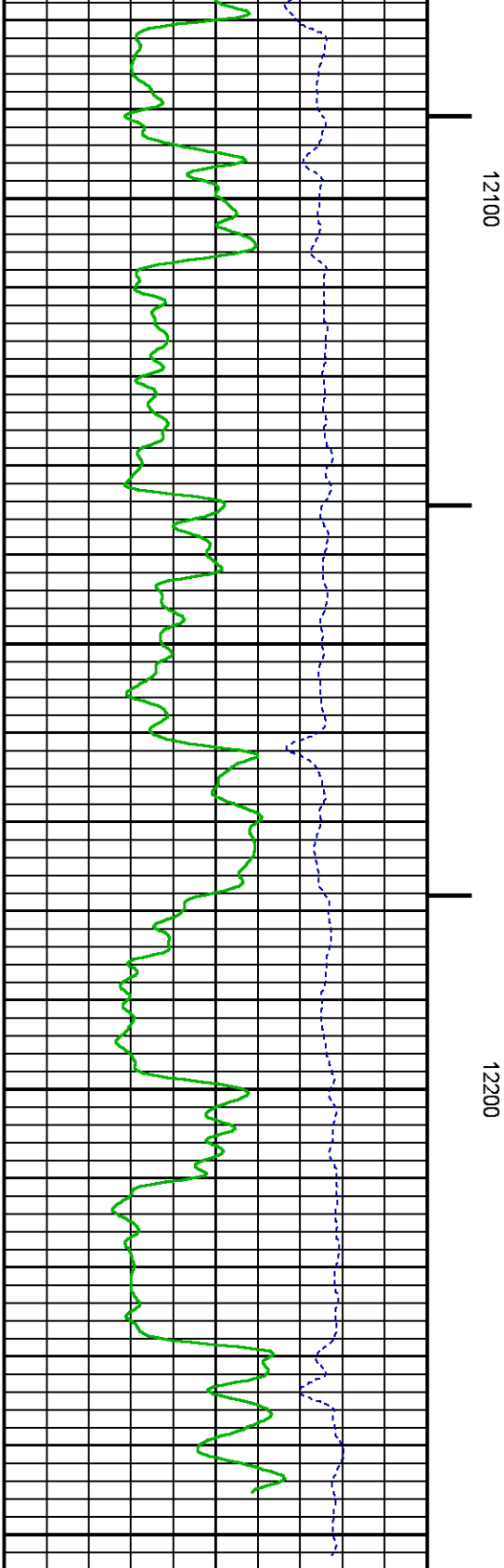
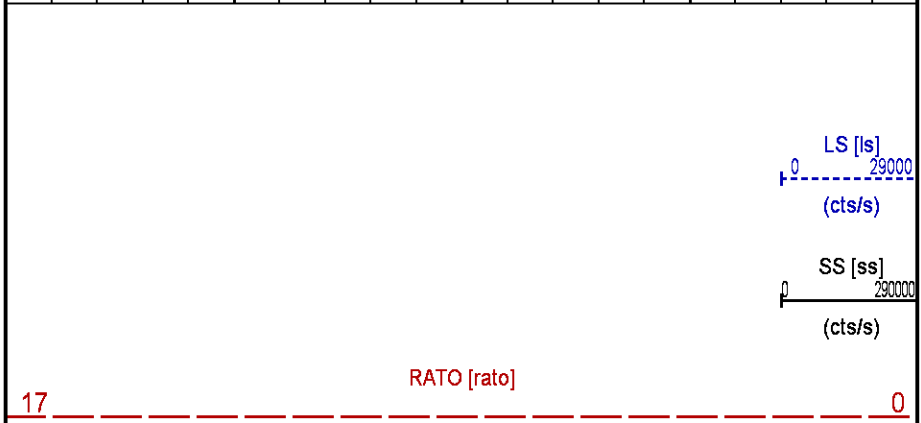
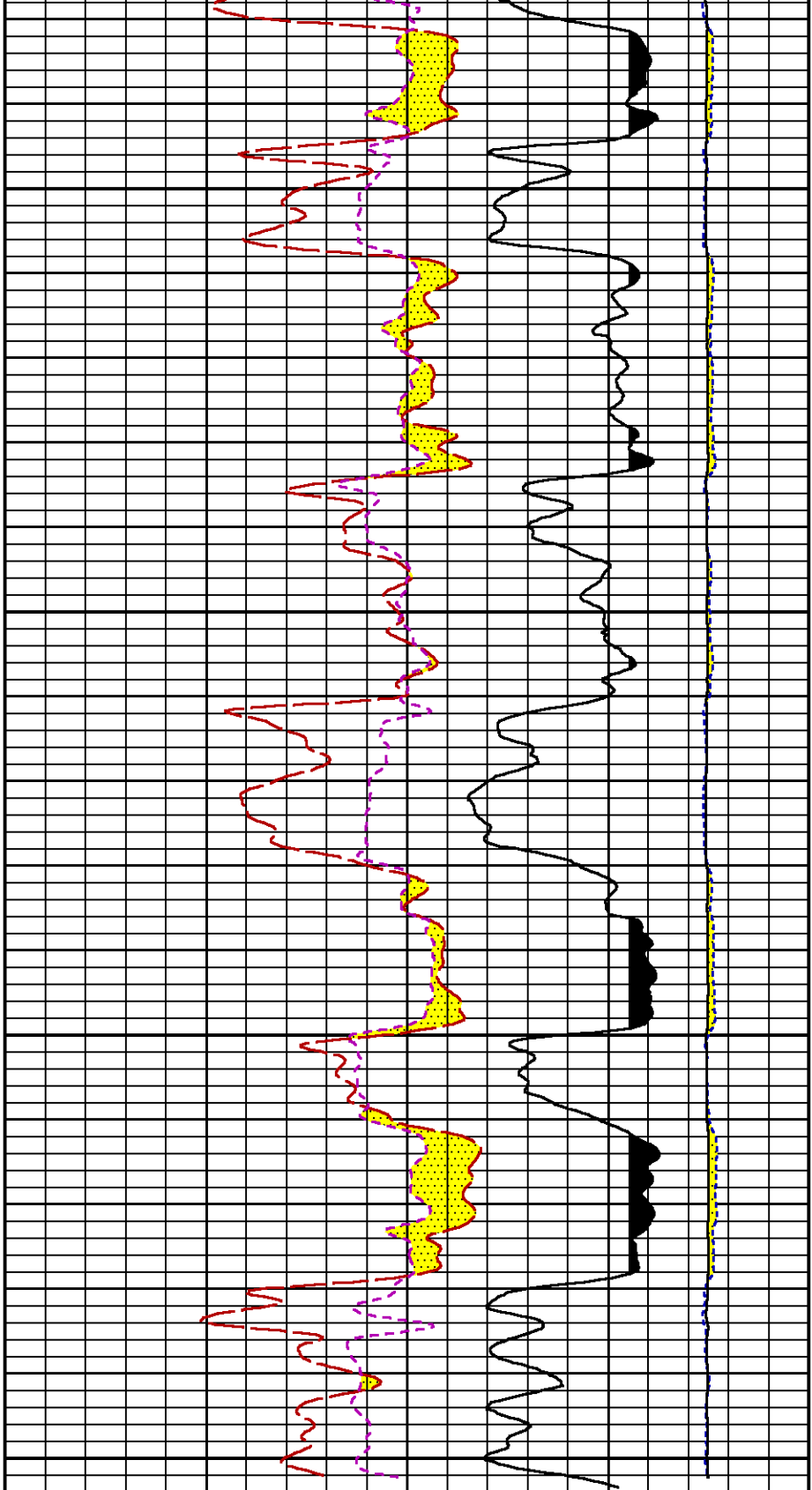
FEET

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 (cts/s)
 SS [ss] 0 290000
 (cts/s)

RATO [rato] 17 0
 (dim)
 RICS [rics] 39 9
 (dim)
 SGFC [sgfc] 60 0
 (cu)





GR BACKUP

ISS [iss]

1E+06

(cts/s)

GAMMA RAY [gr]

150

(gAPI)

FEET

CCL
(mV)

LS [ls]

29000

(cts/s)

SS [ss]

290000

(cts/s)

RATO [rato]

17

0

		(dim)	
		RICS [rics]	
	39		9
		(dim)	
	60	SGFC [sgfc]	0
		(cu)	

CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH096705/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 (cts/s)	CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	63.11	428.60	365.5	0.506	31.95	216.95	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 10160383

DATE/TIME PERFORMED: Tue May 19 15:29:25 2015

UNIT: 3885TC 6685

CALIBRATOR: 2437XB 112674

SOURCE: 8281AA 10148476

HOURS: 8281AA 402

	ISS	Mtr Vltz (V)	SS Gain	LS Gain	XLS Gain	EA Temp (degF)	Sync Delay (usec)	RCAL
Raw Data	804434	125	2323	2249	2212	107	7.0	0.9933

Interpolated	1300000	147	2302	2241	2209				
	ISS	BKS	BKL	BKX	SGA1	SDA1	SGA2	SDA2	
Raw Data	804434	6654	1077	155	26.01 25.35 26.40	0.15 0.00 0.20	24.24 23.60 24.80	0.32 0.00 0.40	
	ISS	ILS	IXS	SS	SS2	LS	CSS	CLS	
Raw Data	804434	171606	26724	88664	31555	8341	53649	13358	
Fit Quality %		0.837	0.844	0.820	0.825	0.861	0.766	0.863	
	ISS	RBOR	RIN ISS/LS	RIN13 ISS/IXS	RICS ISS/CSS	RATO SS/LS	RTWO SS2/LS	RONE CSS/CLS	
Raw Data	804434	1.43 1.42 1.45	4.69 3.55 5.52	30.11 22.20 32.70	15.00 10.99 16.34	10.63 10.06 11.10	3.78 3.57 3.95	4.02 3.76 4.22	
Fit Quality %		0.018	0.131	0.147	0.150	0.069	0.054	0.056	
Reduced	1409594	1.43 1.42 1.45	4.69 4.33 5.52	30.17 27.60 32.70	15.01 13.70 16.34	10.63 10.06 11.10	3.78 3.57 3.95	4.02 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 CABLEHEAD

PCM POWER SUPPLY

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

TELEMETRY / CCL

Diameter : 1.70"
Length : 4.46'

34.08'

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"

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
WELL
FIELD
COUNTY

WPX ENERGY

FEDERAL RGU 443-26-198

SULPHUR CREEK

RIO BLANCO

STATE **COLORADO**

LOCATION:

SHL: 2455' FNL 914' FEL

BHL: 2185' FSL 881' FEL

SEC **26** TWP **1S** RGE **98W**

ELEVATIONS:

KB 6646 FT

DF

GL 6622 FT

DATE **29-May-2015**

FILE NO:

CH096705

API NO:

05103119840000

SEC 26 T1S R98W

42-26-198

H&P 318