



Baker Atlas



FILE NO:

API NO:
05103114790100

COMPANY
WELL
FIELD
COUNTY
PCU 296-6 AB ST1
PICEANCE CREEK
RIO BLANCO
STATE COLORADO

Ver. 3.87

LOCATION:
SHL: 485' FSL & 1908' FWL

OTHER SERVICES
BOND LOG

SEC 6 TWP 2S RGE 96W

PERMANENT DATUM
LOG MEASURED FROM
DRILL MEAS. FROM
GL ELEVATION 7366.30 FT
KB 26.9 FT ABOVE P.D.
KELLY BUSHING

ELEVATIONS:
KB 7393.20 FT
DF 7392.20 FT
GL 7366.30 FT

DATE	18-Jan-2011
RUN	1
TRIP	1
SERVICE ORDER	534199
DEPTH DRILLER	13884.8 FT
DEPTH LOGGER	13719 FT
BOTTOM LOGGED INTERVAL	13710 FT
TOP LOGGED INTERVAL	8020 FT
TIME STARTED	23:30
TIME FINISHED	09:00
OPERATOR RIG TIME	9.5 HRS
TYPE OF FLUID IN HOLE	2% MACL
FLUID DENSITY	N/A
FLUID SALINITY	N/A
FLUID LEVEL	FULL
LOGGED CEMENT TOP	N/A
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	N/A
NOMINAL LOGGING SPEED	10 F/MN
MAX. RECORDED TEMP.	N/A
REFERENCE LOG	BAKER ATLAS BOND LOG
REFERENCE LOG DATE	19 JAN 2011
EQUIP. NO.	HL 6670
LOCATION	G.J., CO.
RECORDED BY	J. OSTLER
WITNESSED BY	MR. JIM JONES

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE 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
14.75 IN	SURFACE	4431 FT
7.875 IN	SURFACE	9742 FT
6.125 IN	SURFACE	13884.8 FT

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
10.75 IN	45.5 LB/F	J55	SURFACE	4431 FT
7 IN	26 LB/F	P-110	SURFACE	9742 FT
4.5 IN	15.1 LB/F	P-110	SURFACE	13884.8 FT

REMARKS

RUN 1 TRIP 1 : LOG WAS DEPTH SHIFTED TO DEPTH MATCH A BAKER ATLAS BOND LOG
WELL WAS LOGGED IN PNC 3-D MODE
SHORT JOINT TOPS AT:
9014'
10014'
11017'
12015'

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO	SERIAL NO	POSITION
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RGR	PRM	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	PCM	8250EA	11756757	FREE
1	1	TEL/CCL	8248EA	11741512	FREE
1	1	GR	8262XA	10485470	FREE
1	1	RPM	8281EA	11774389	FREE
1	1	RPM	8283PA	11778244	FREE
1	1	RPM	8281FA	11778242	FREE

MAIN LOG PNC 3-D MODE

ECLIPS 6.1i Aug 06, 2010
Updates: 33 Patches: 2

Thu Jan 20 09:28:06 2011

Pcrplt /main/62 Cplot Pdf_Cpp /main/16 Fileview 5.50

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/534199/m353h02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 7945.500 ft BOTTOM DEPTH: 13754.000 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	6.12	In	"	"
	CASING SIZE	4.50	In	"	"
	MATRIX	SANDSTONE		"	"
	CORRECTION BUFFER	11		"	"

CURVE DESCRIPTION REPORT

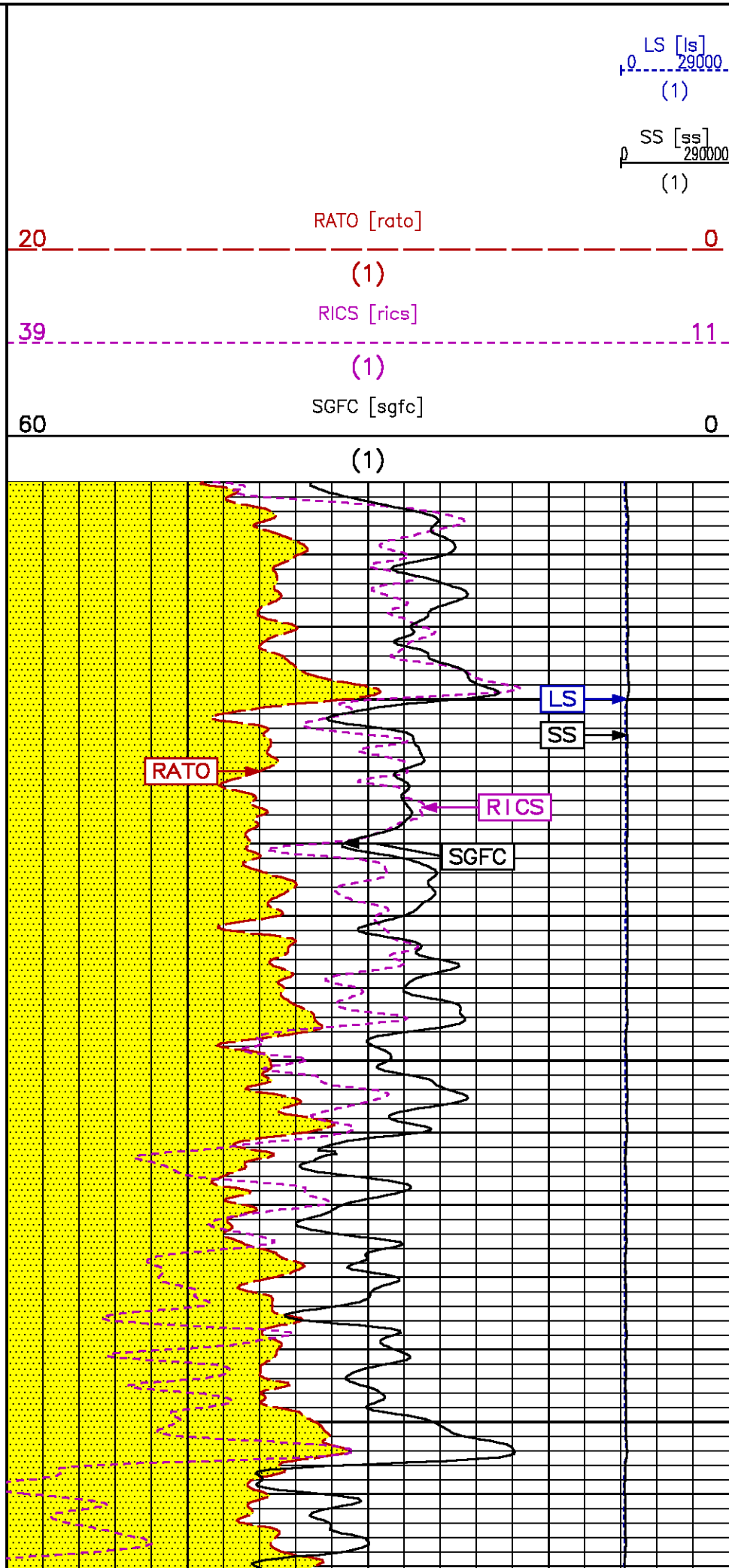
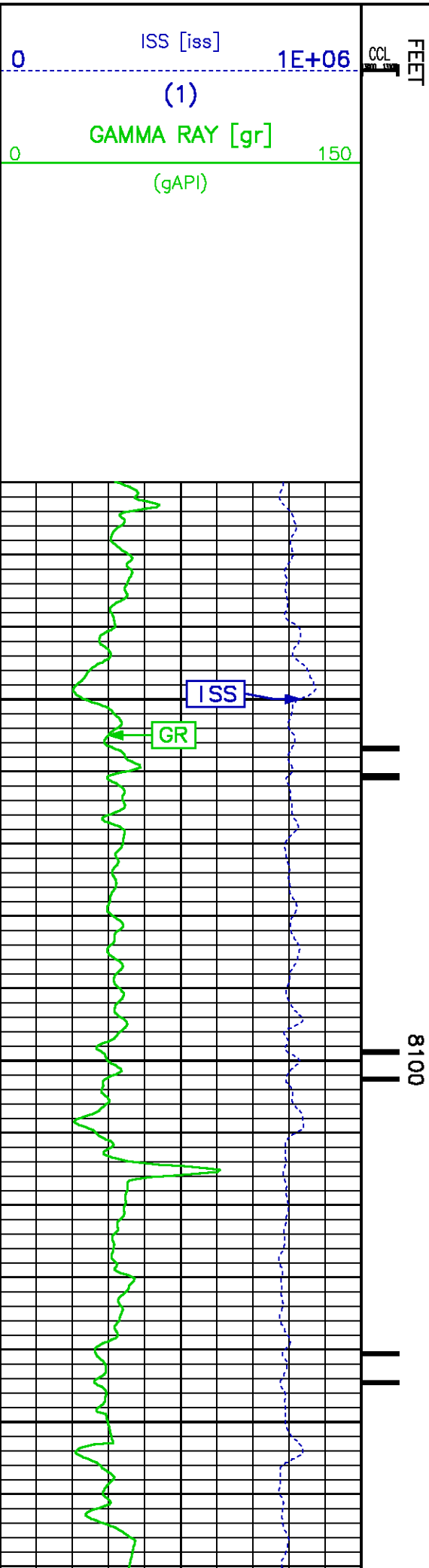
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Jan 20 06:45:50 2011	CASING COLLAR LOCATOR
F1:GR	Jan 20 06:47:09 2011	GAMMA RAY
F1:ISS	Jan 20 06:47:12 2011	INELASTIC SHORT SPACE COUNT RATE
F1:LS	Jan 20 06:47:13 2011	LONG SPACE COUNT RATE
F1:RATO	Jan 20 06:47:37 2011	SHORT/LONG SPACE COUNT RATE RATIO
F1:RICS	Jan 20 06:47:46 2011	SHORT SPACE INELASTIC TO CAPTURE COUNT RATE RATIO (ISS/CSS)
F1:SGFC	Jan 20 06:47:50 2011	CORRECTED FORMATION SIGMA
F1:SS	Jan 20 06:47:50 2011	SHORT SPACE COUNT RATE

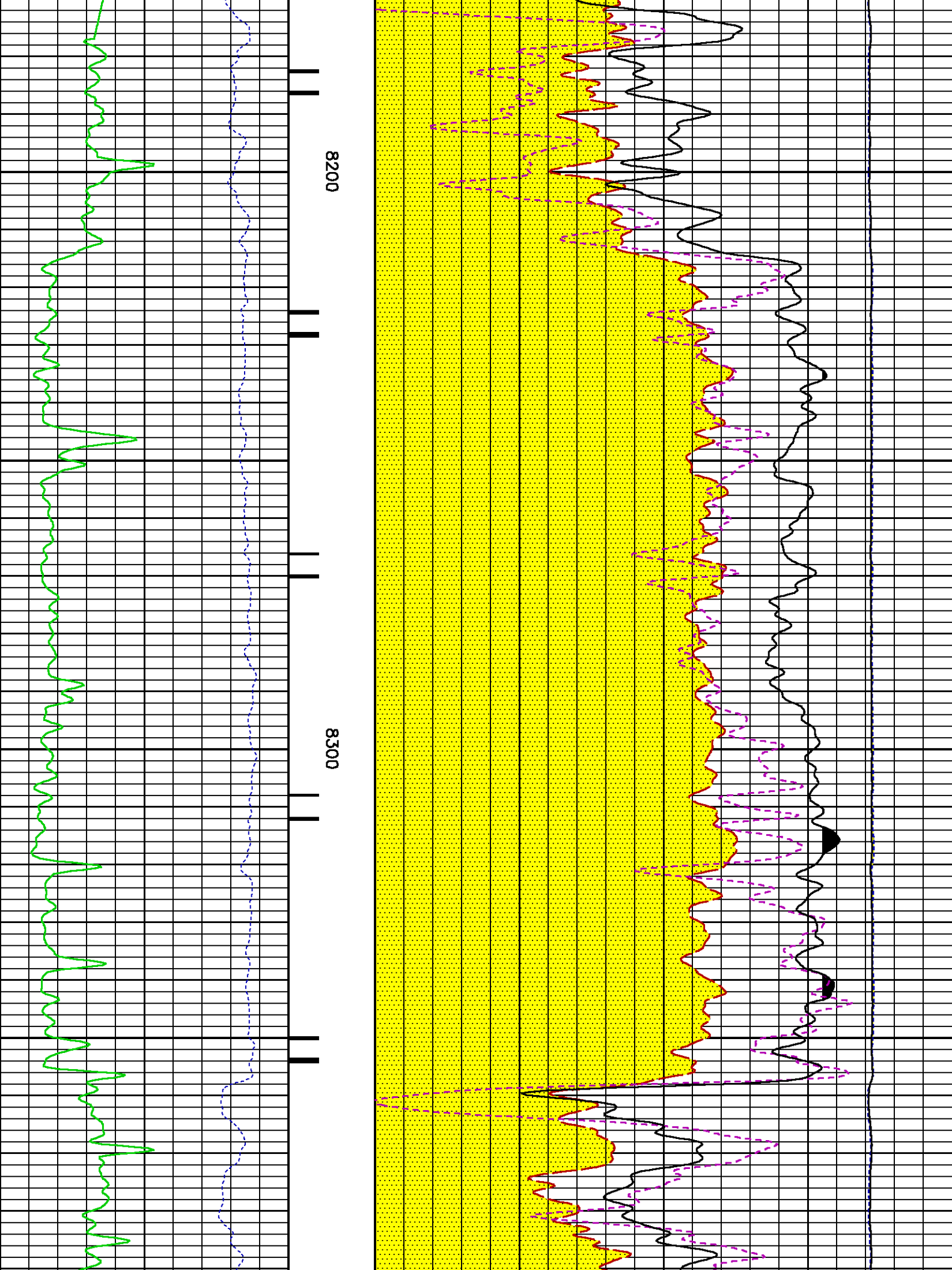
CURVE MEASURE POINT OFFSET

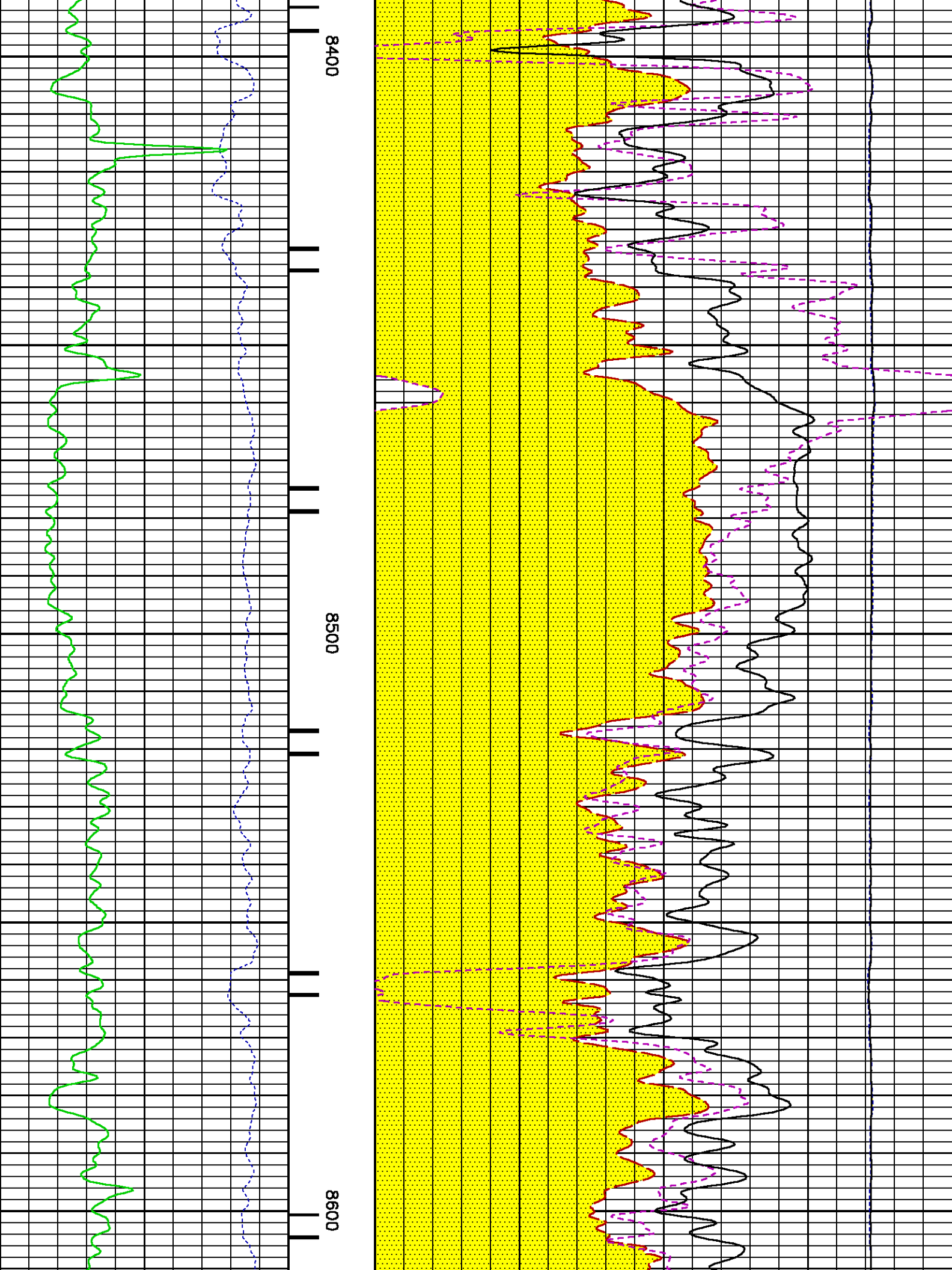
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	22.50	ISS	9.50	RATO	9.50	SGFC	9.50
GR	19.50	LS	9.50	RICS	9.50	SS	9.50

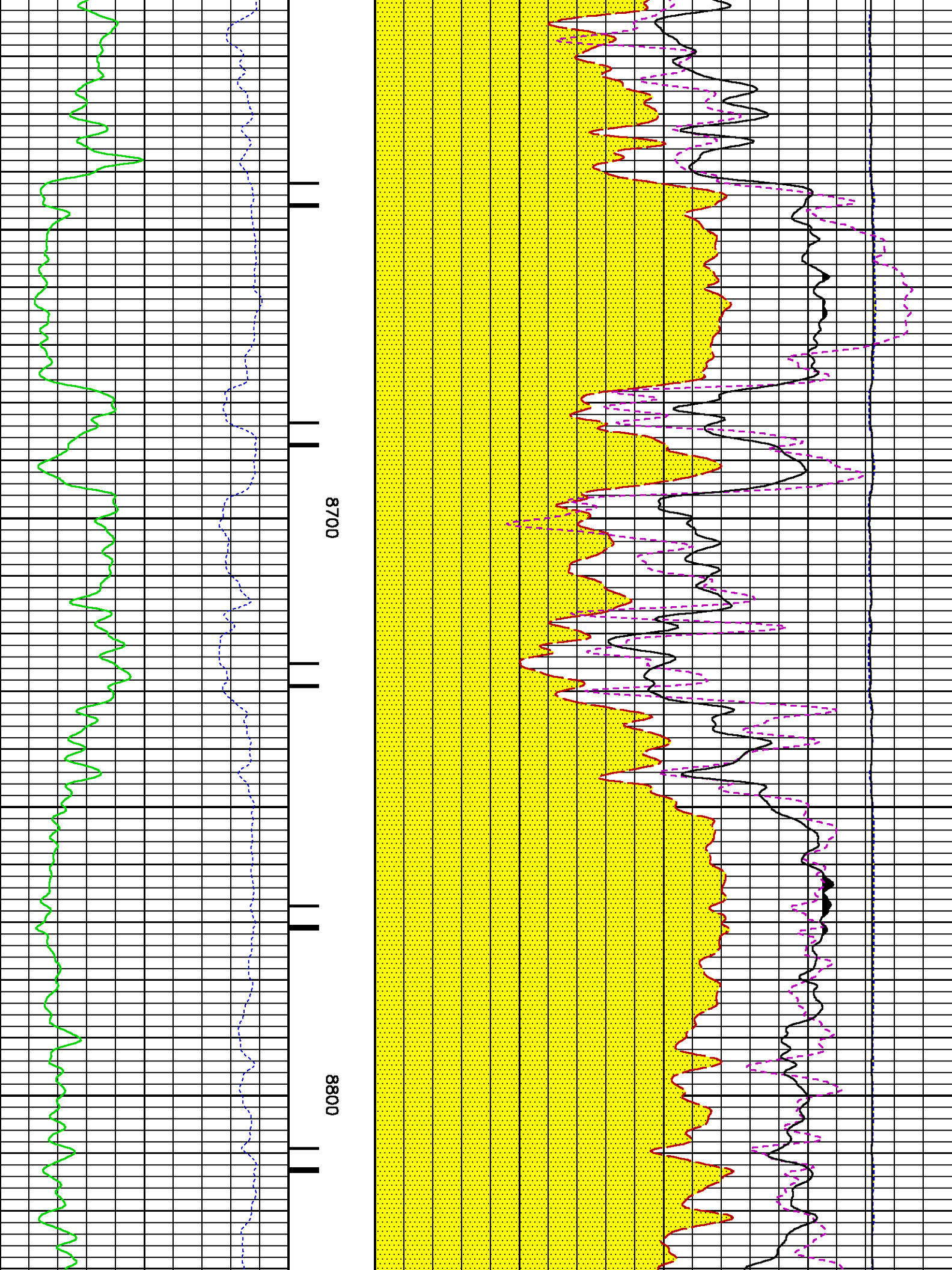
Presentation : HL6670:/dat1a/534199/RPM_PRESENTATION+01-MAIN-MAIN_RPM-5.pdf [5"/100' Scale]
Plot Interval : 8020 - 13725 Feet

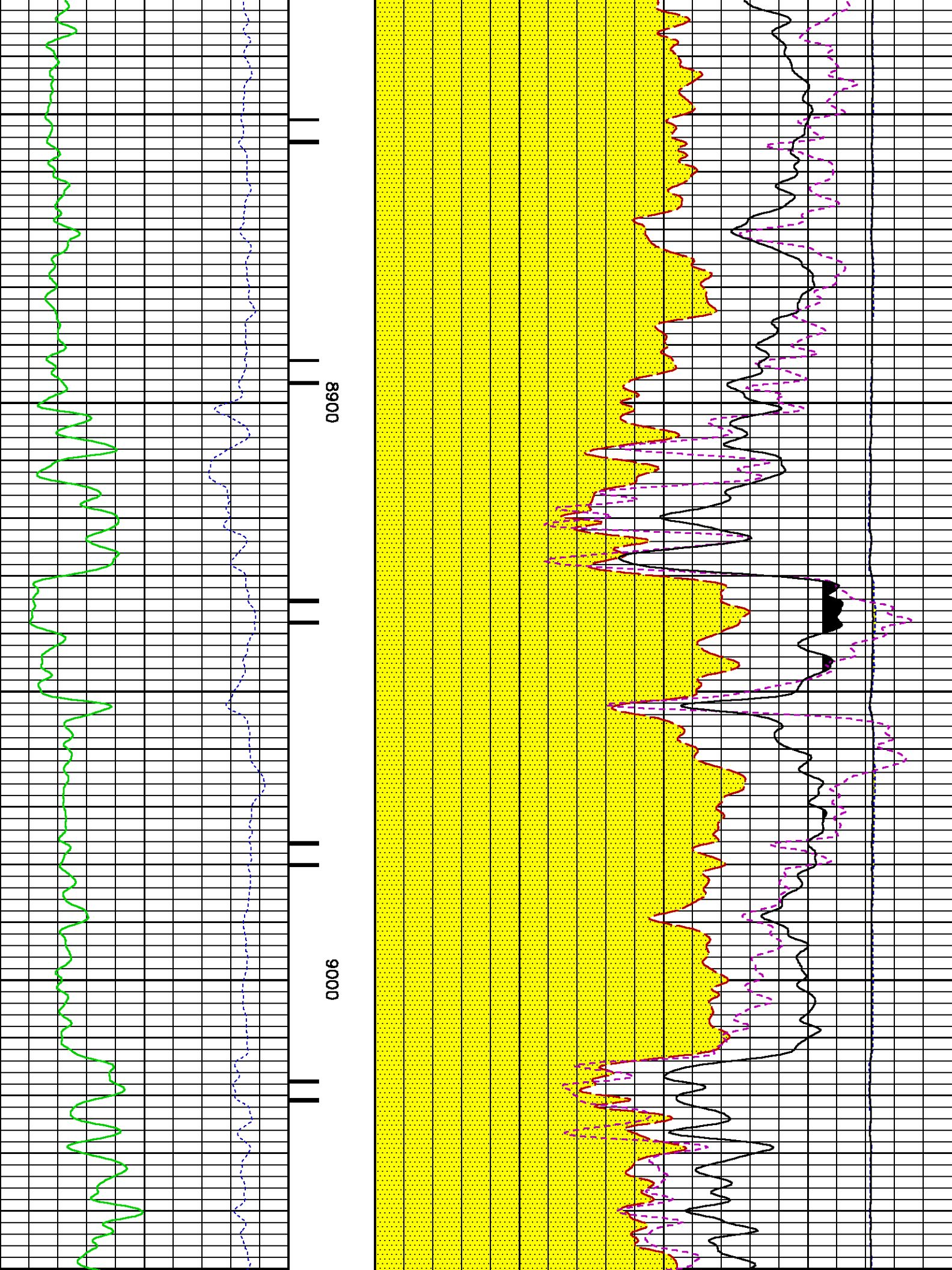
Data File 1 : F1 : HL6670:/dat1a/534199/MAIN_RPM.xtf
Created On : Jan 20 06:45:49 2011
Company : EXXONMOBIL PRODUCTION COMPANY
Well : PCU 296-6 A7
Field : PICEANCE CREEK
File Interval : 7919.75 - 13749.2 Feet
Oct : m353h

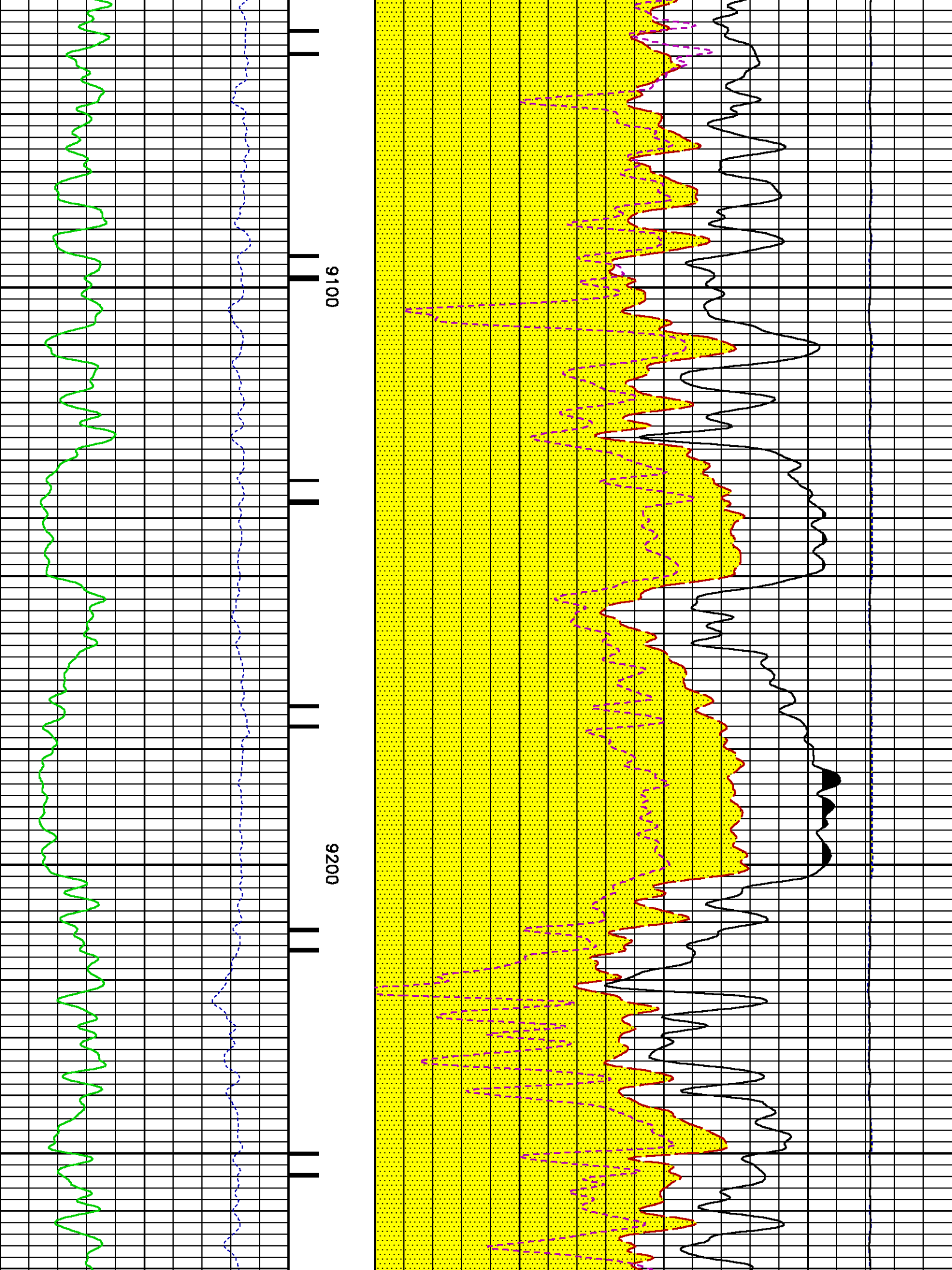


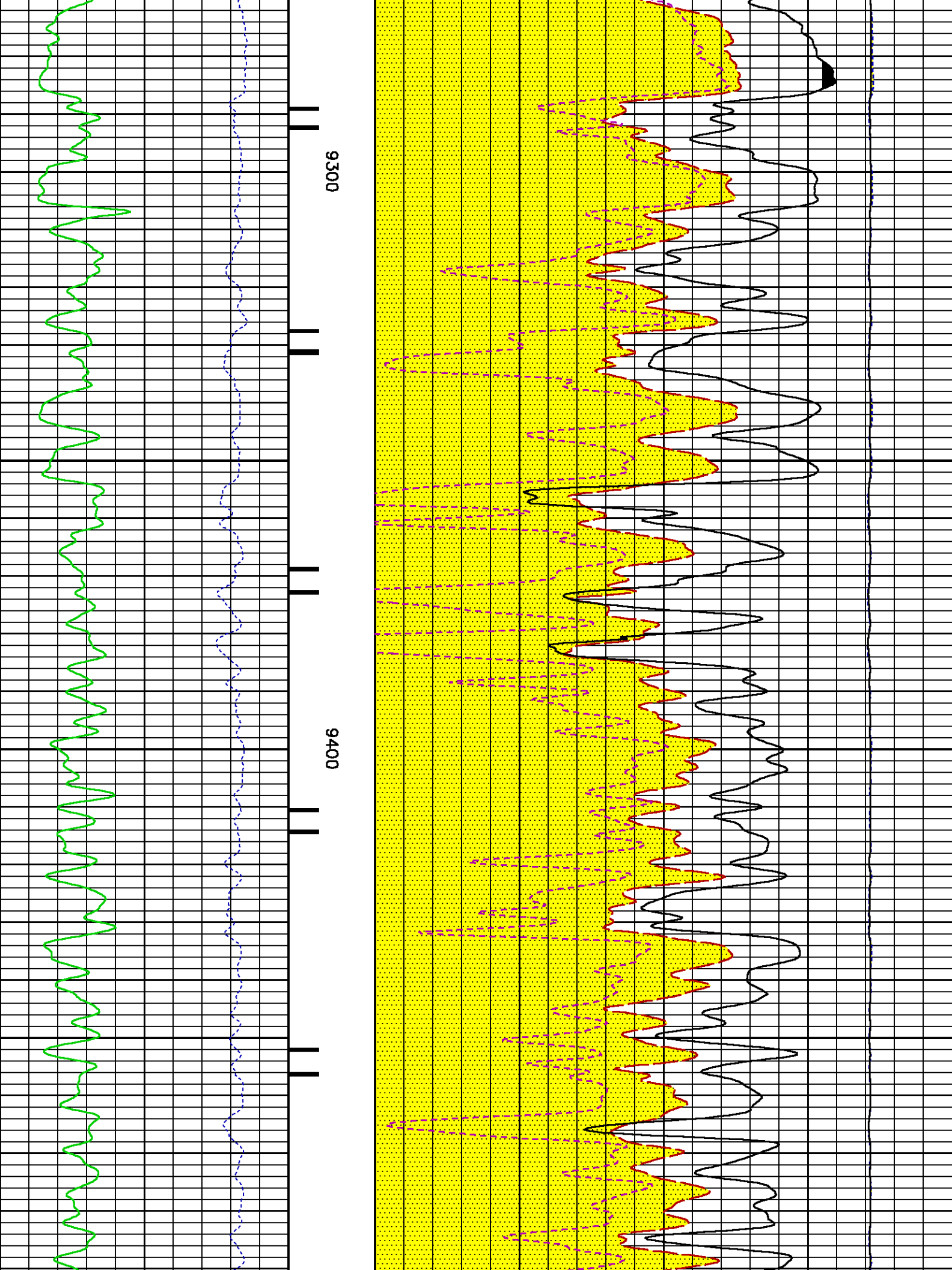


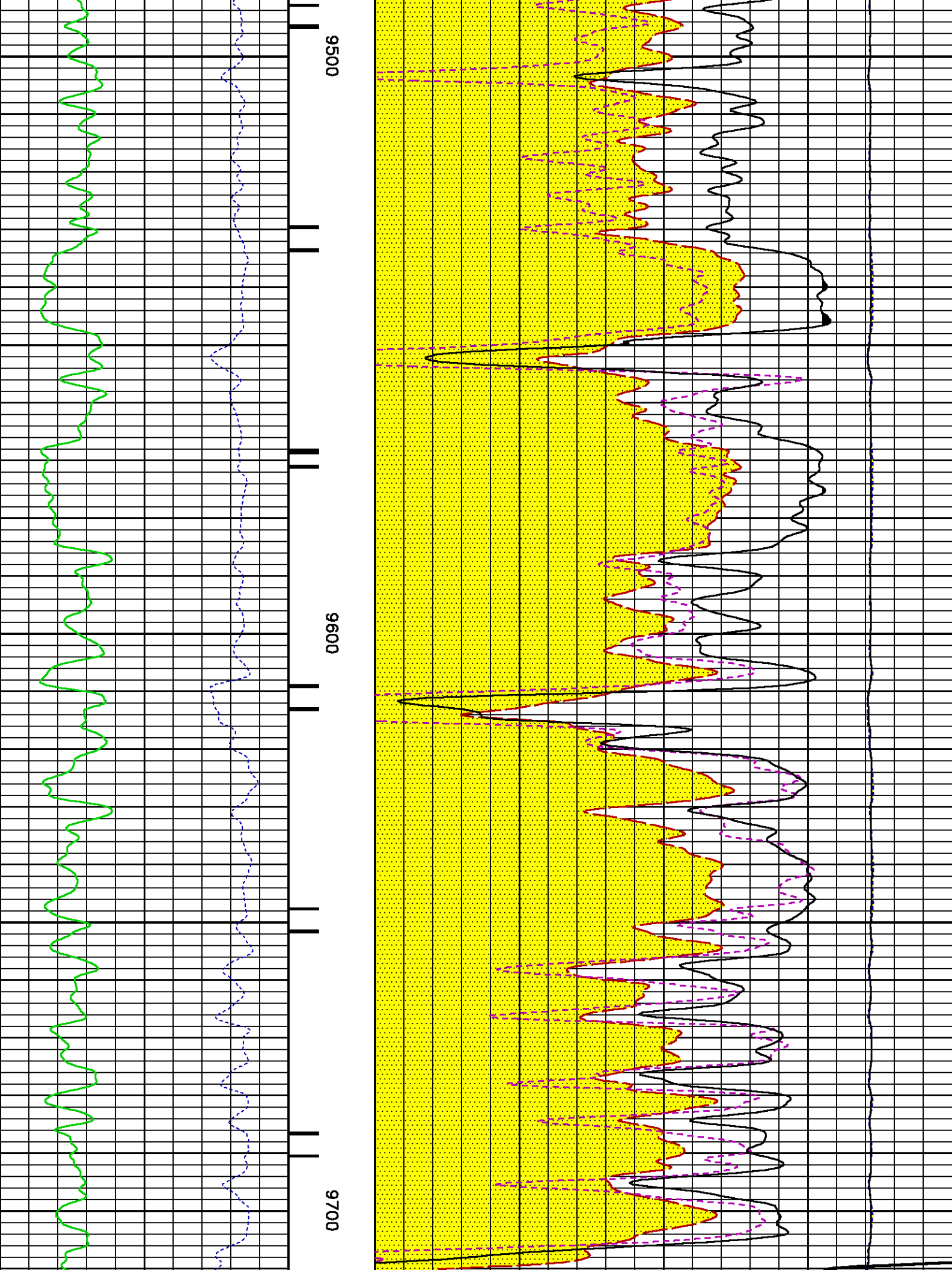


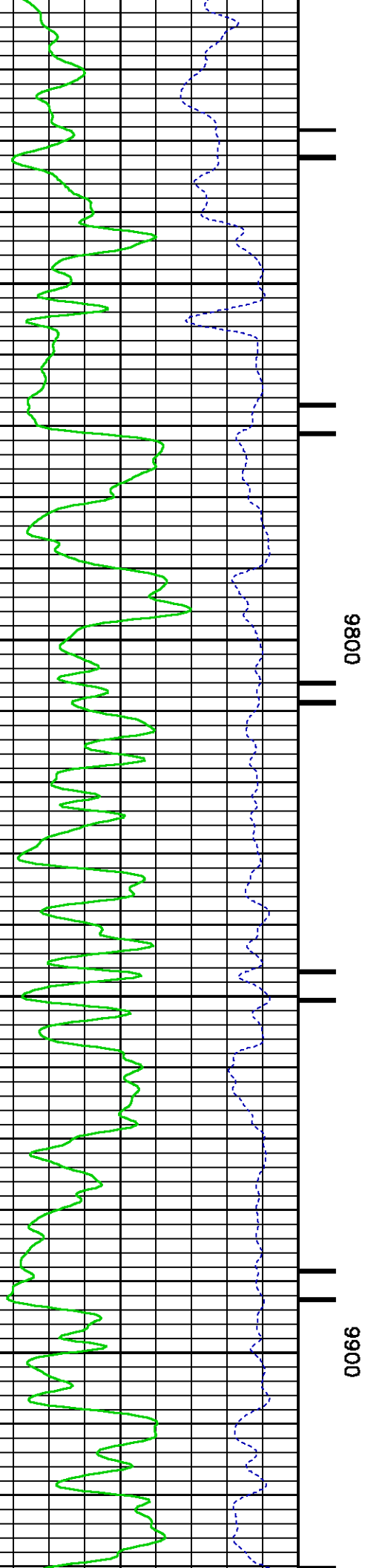
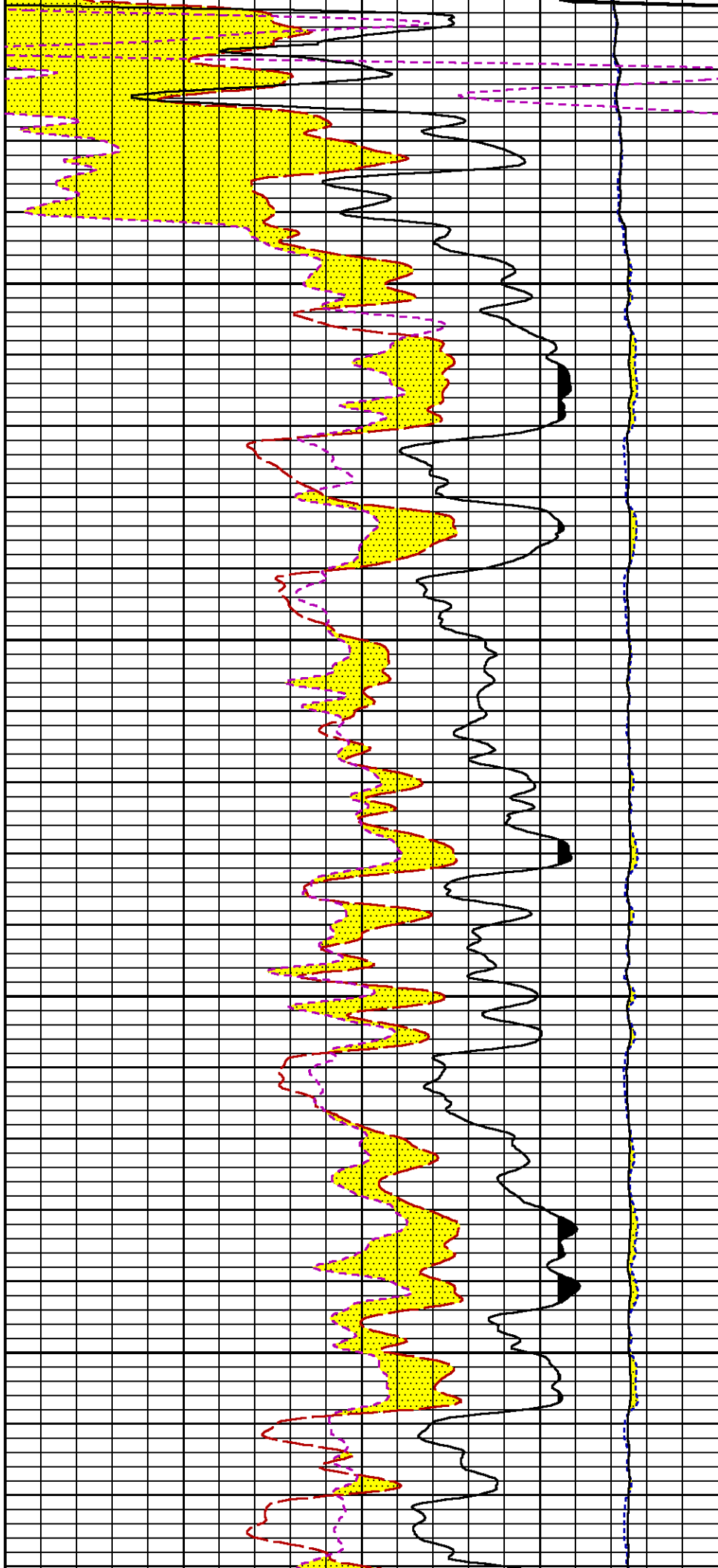


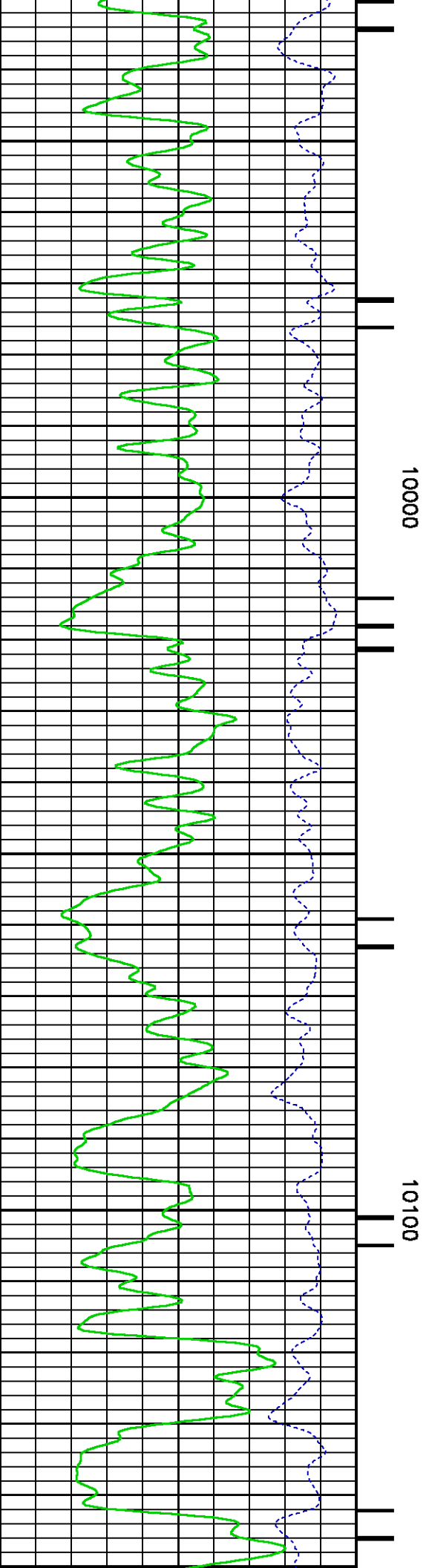
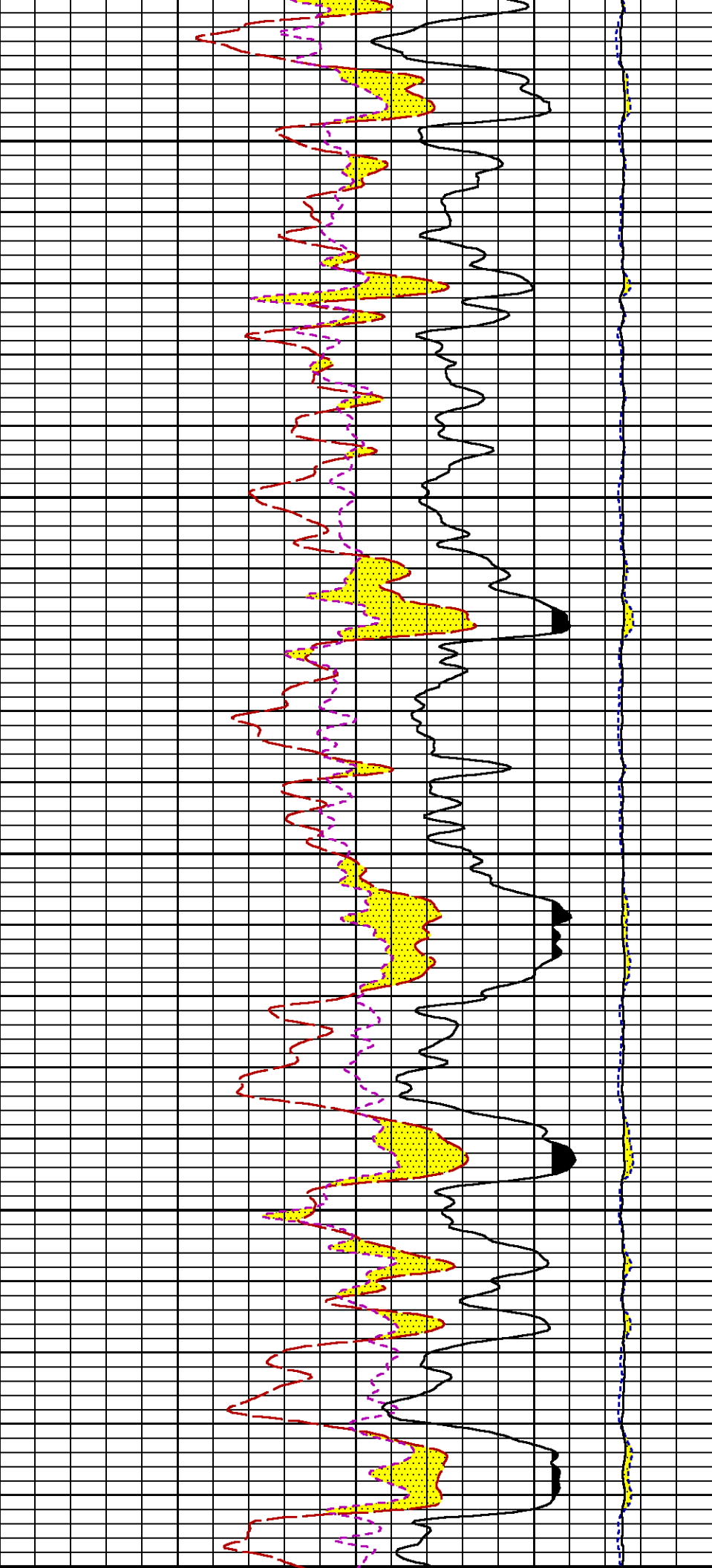


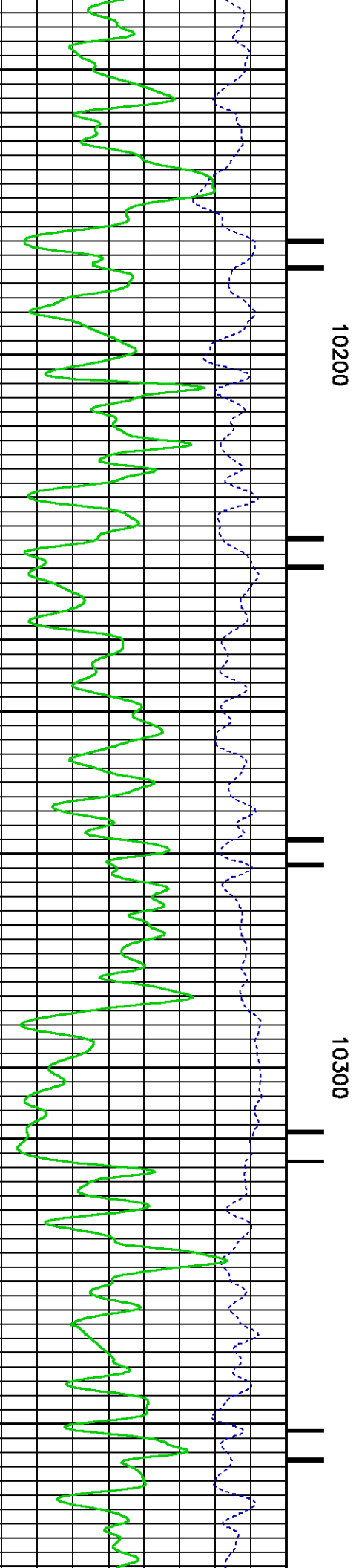
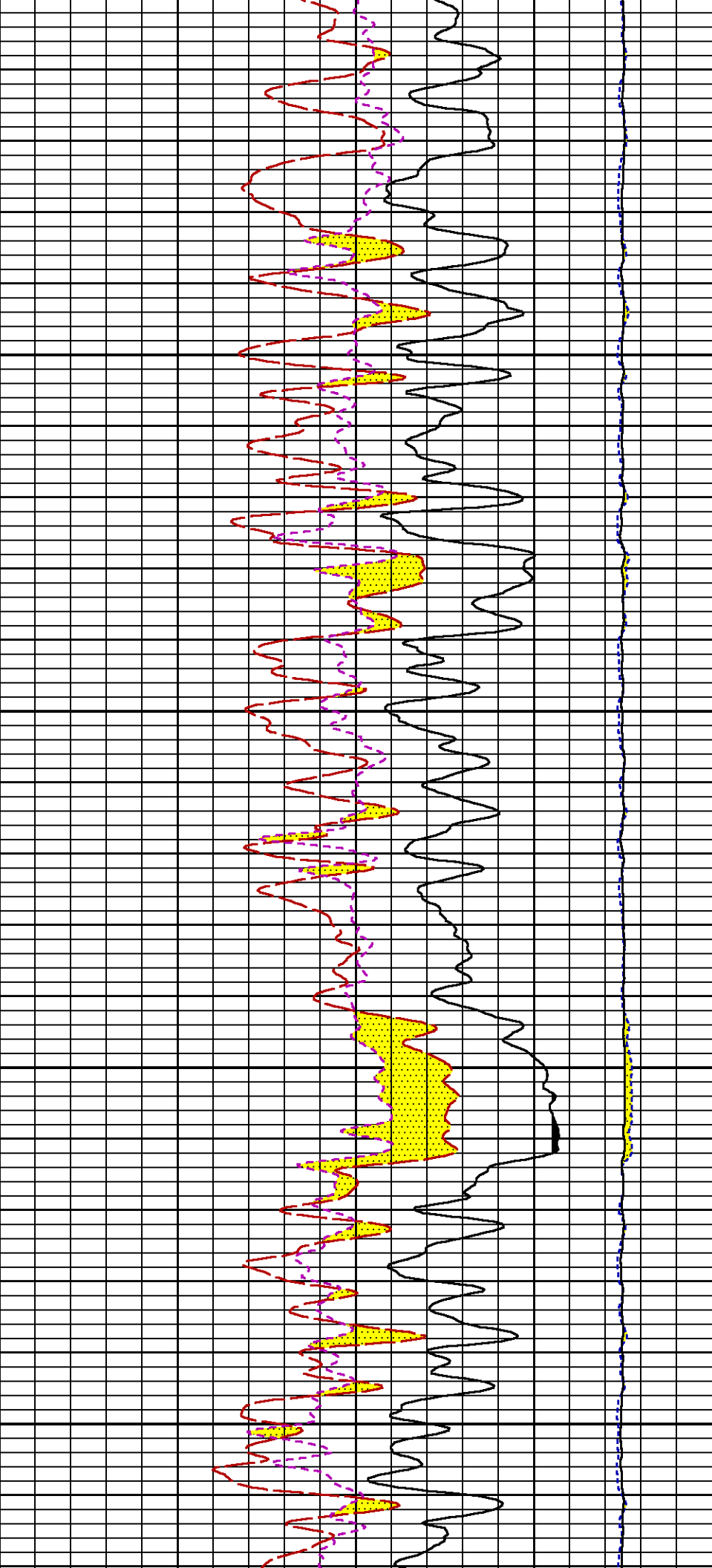


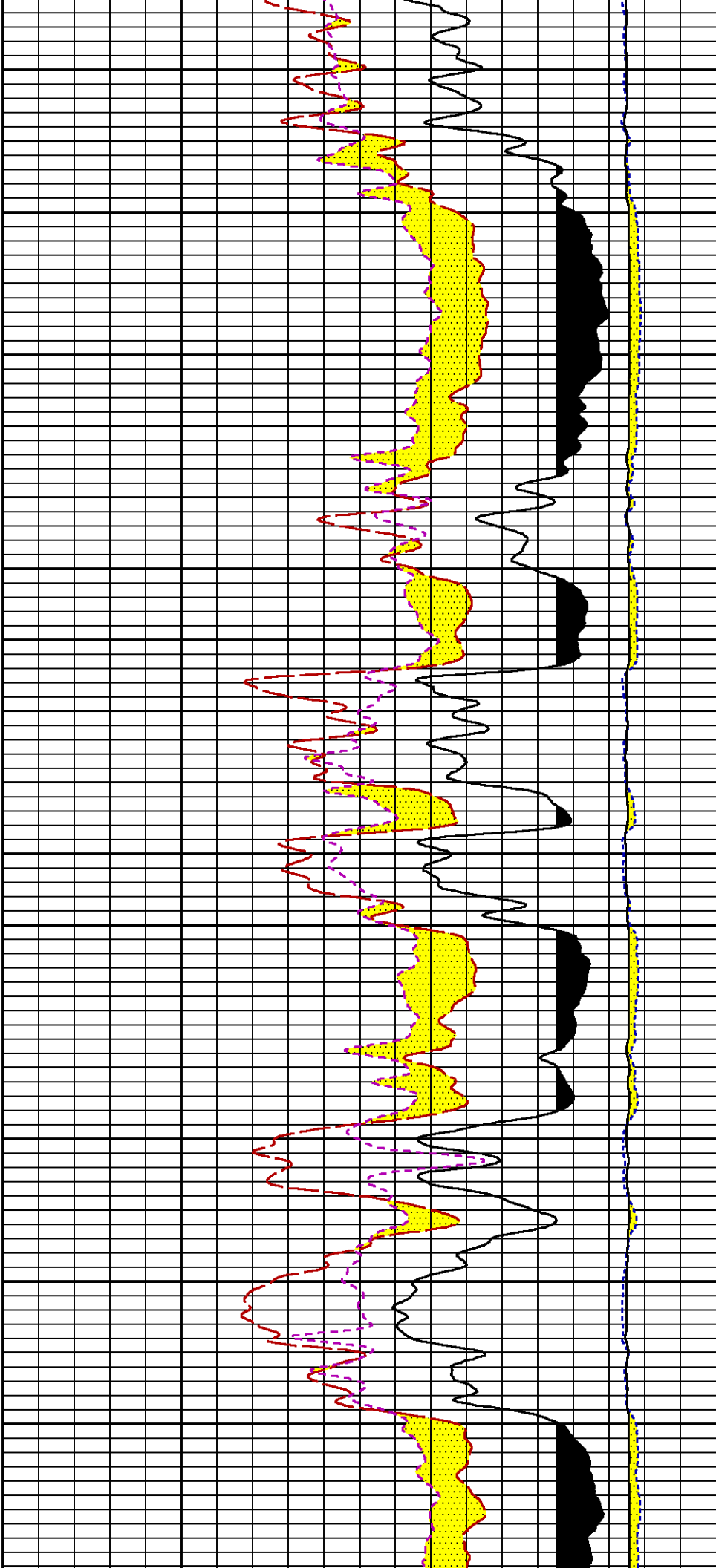






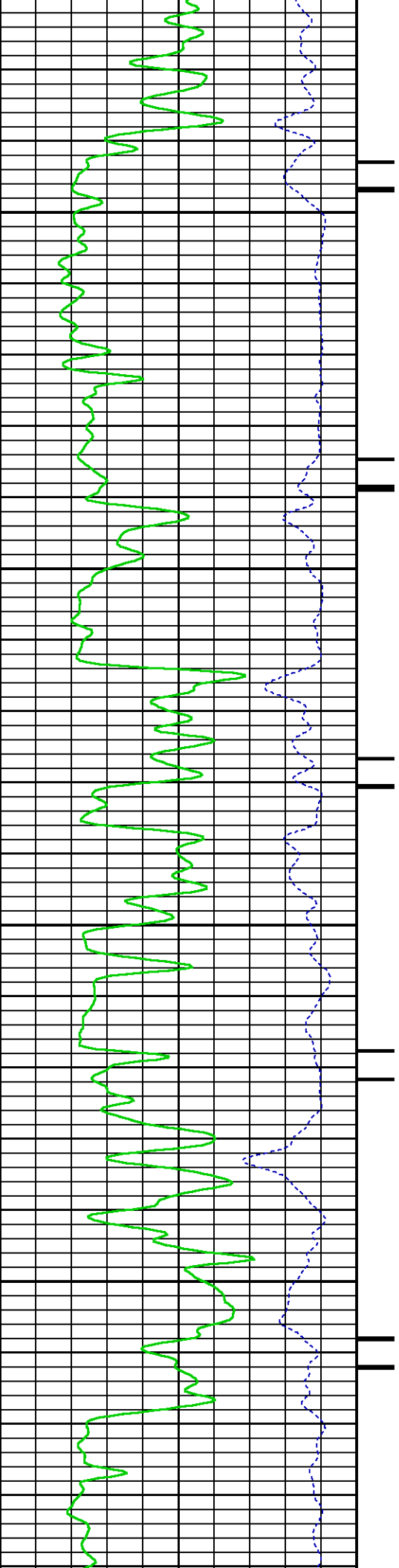


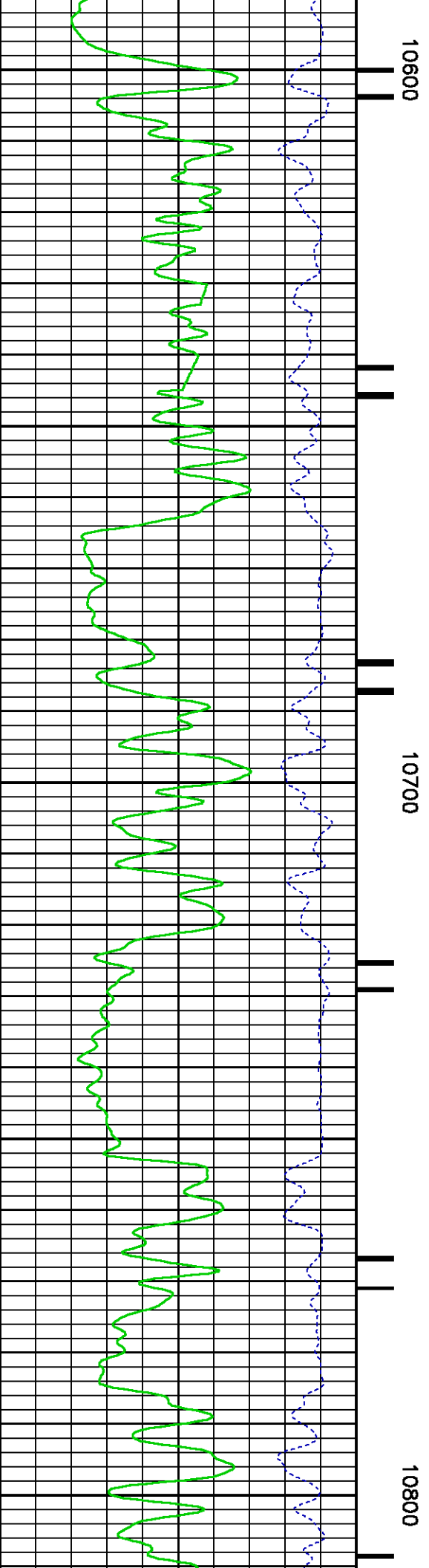
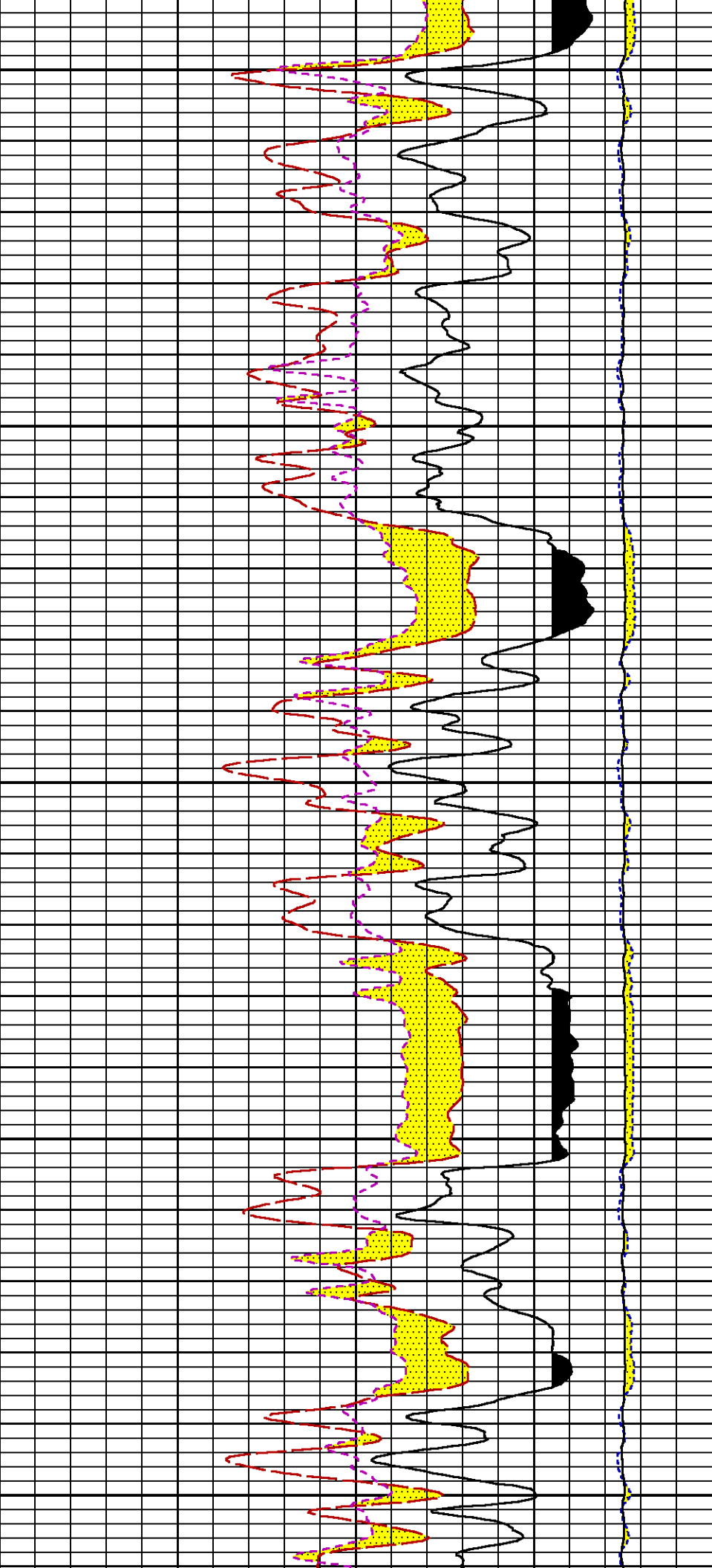


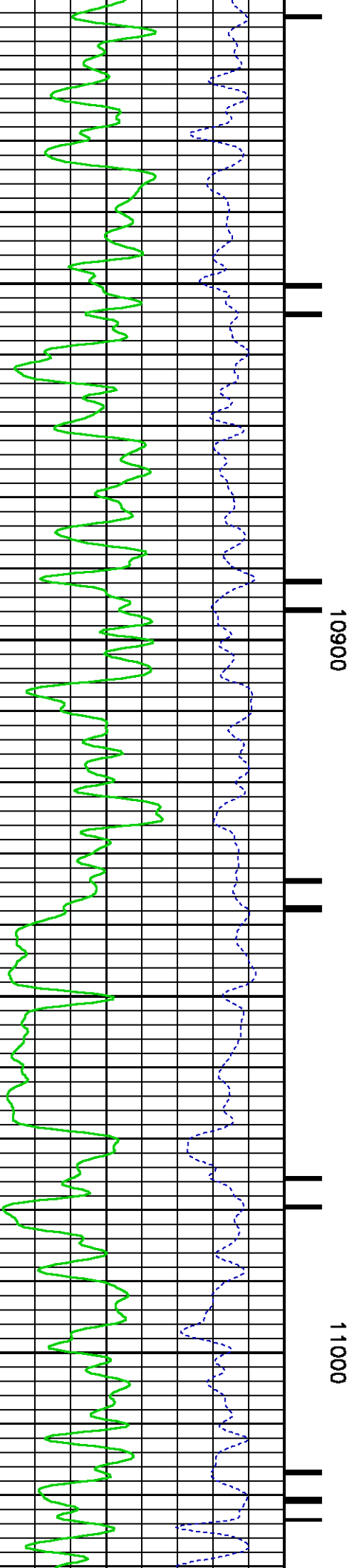
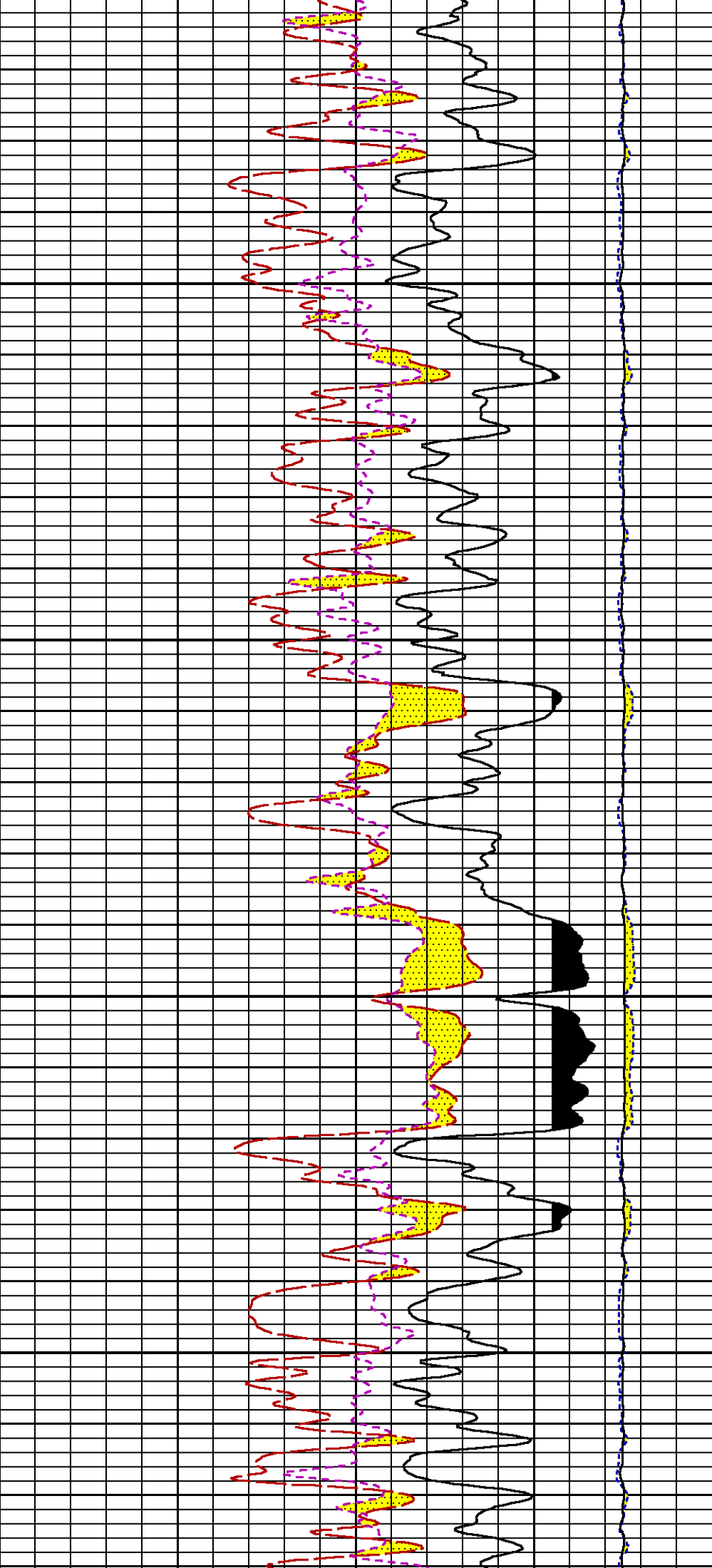


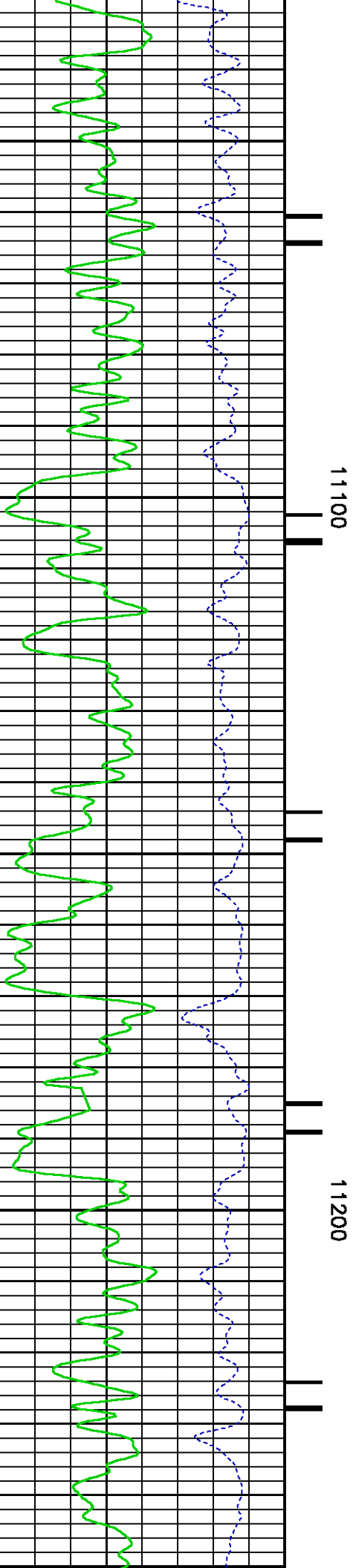
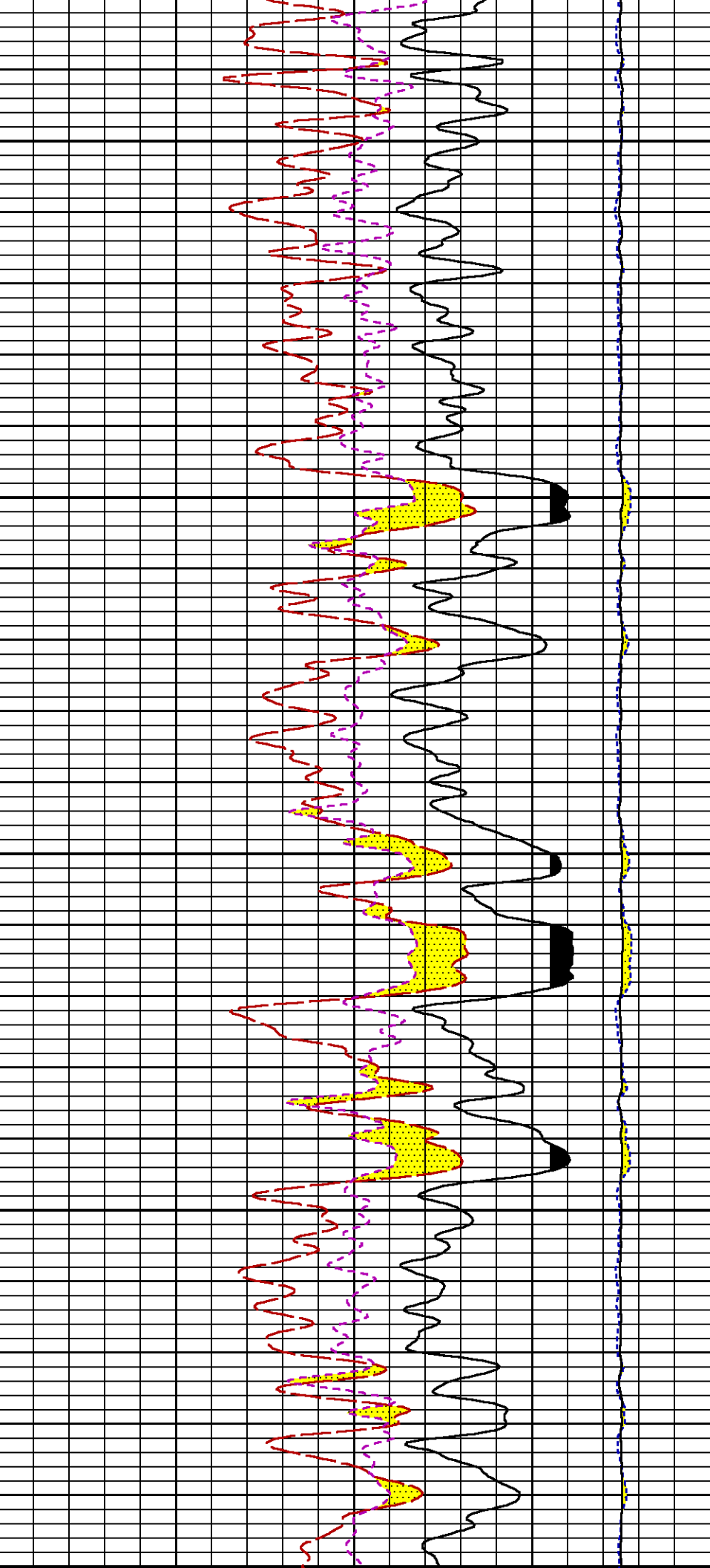
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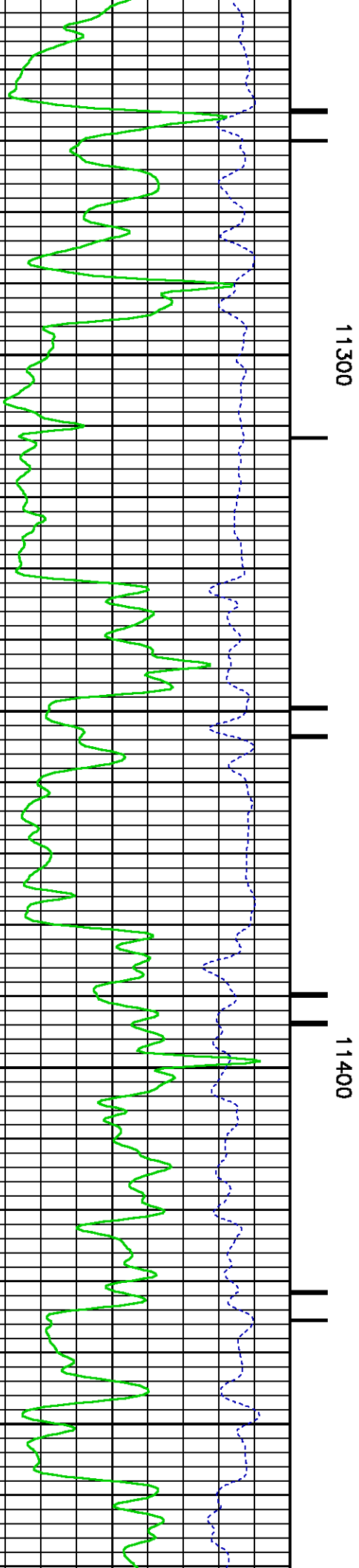
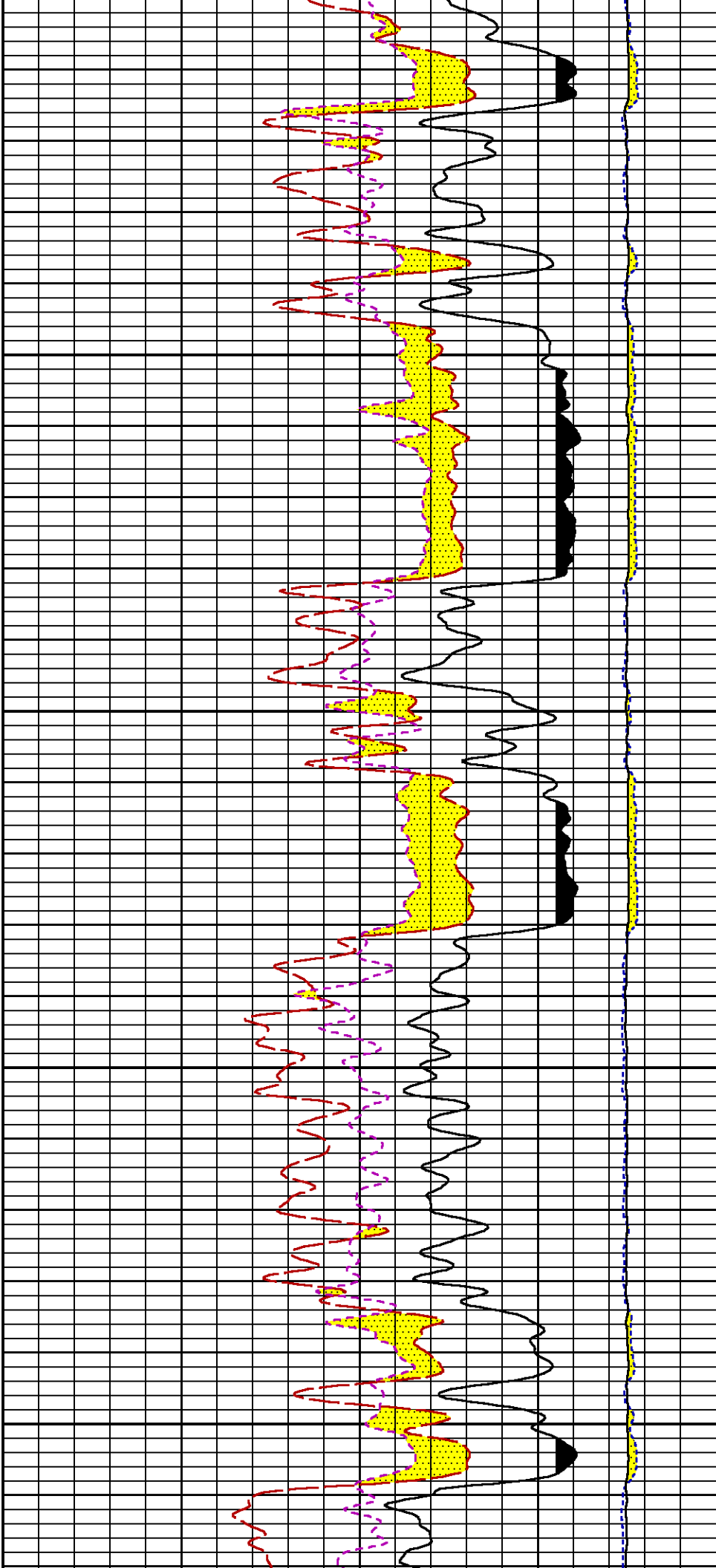
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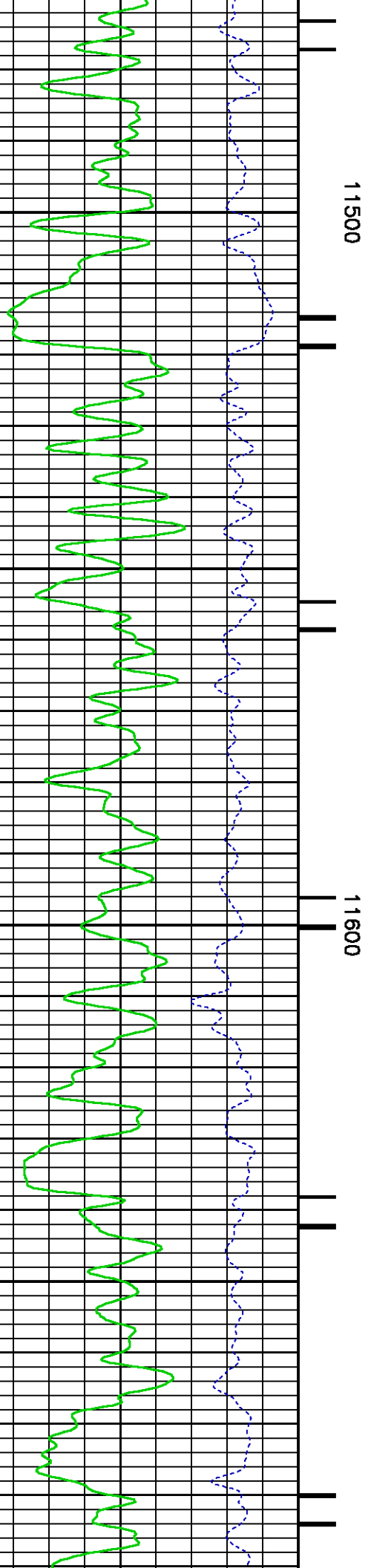
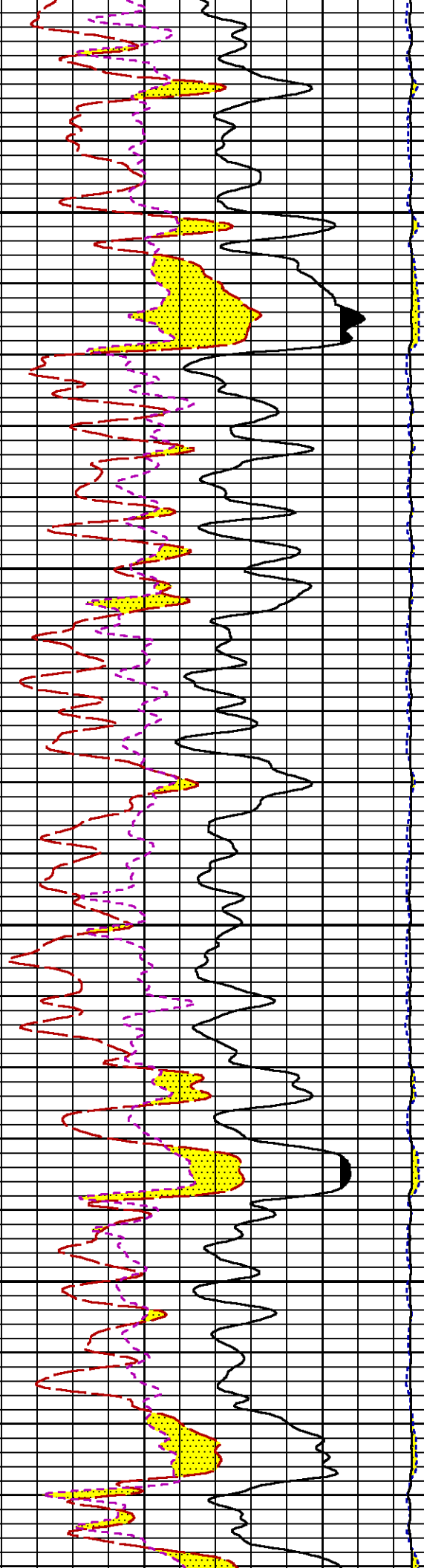


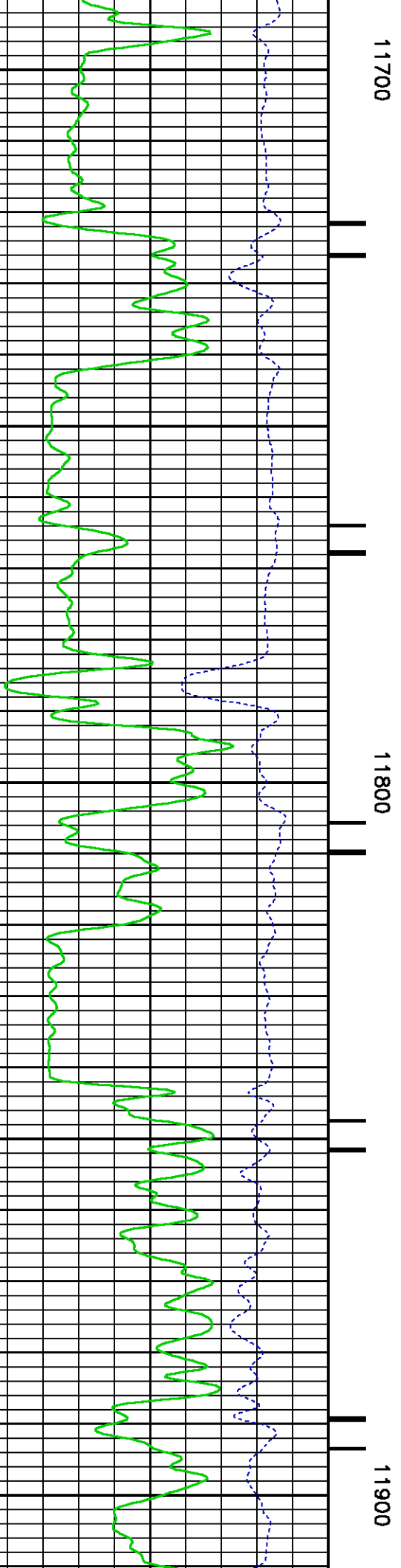
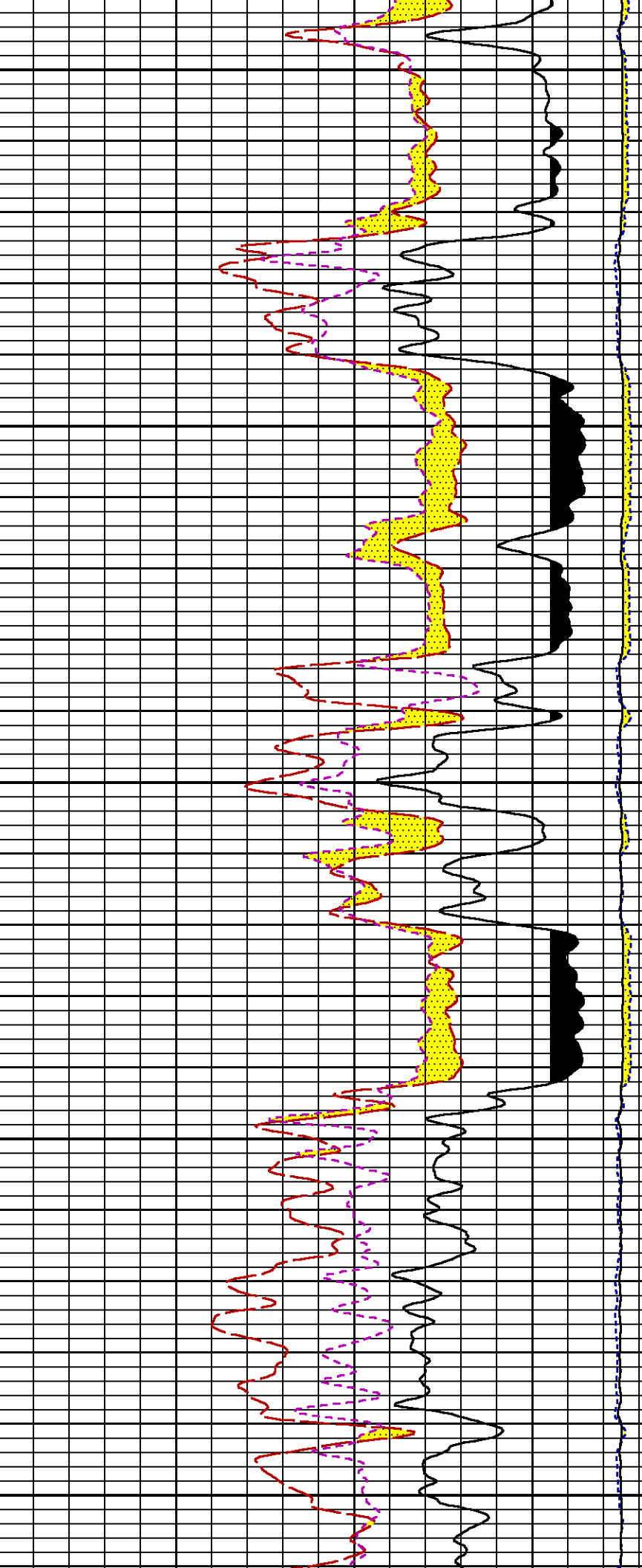


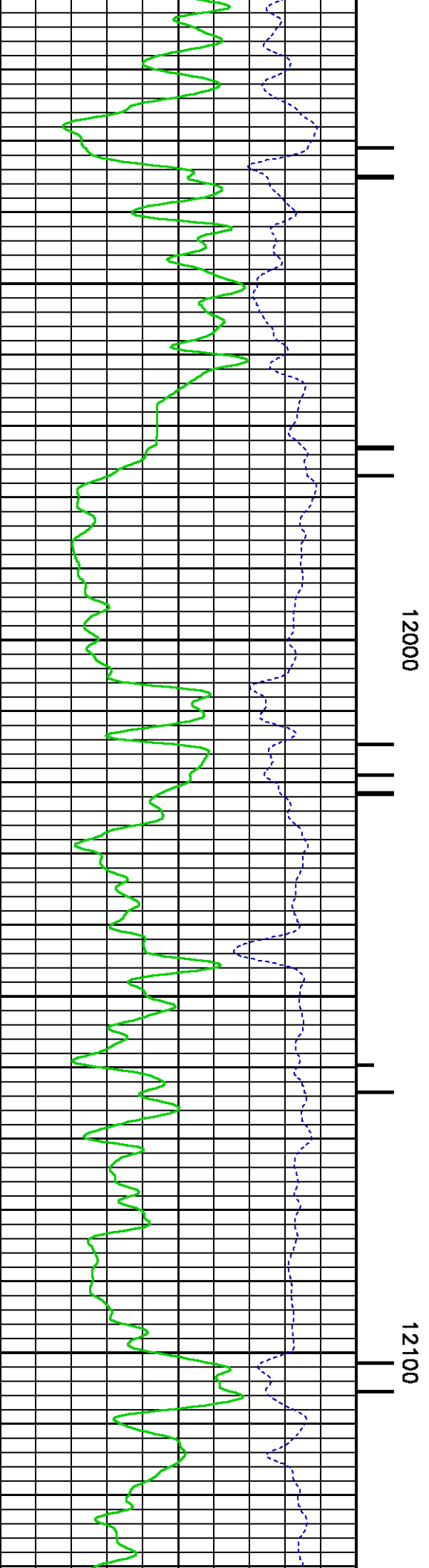
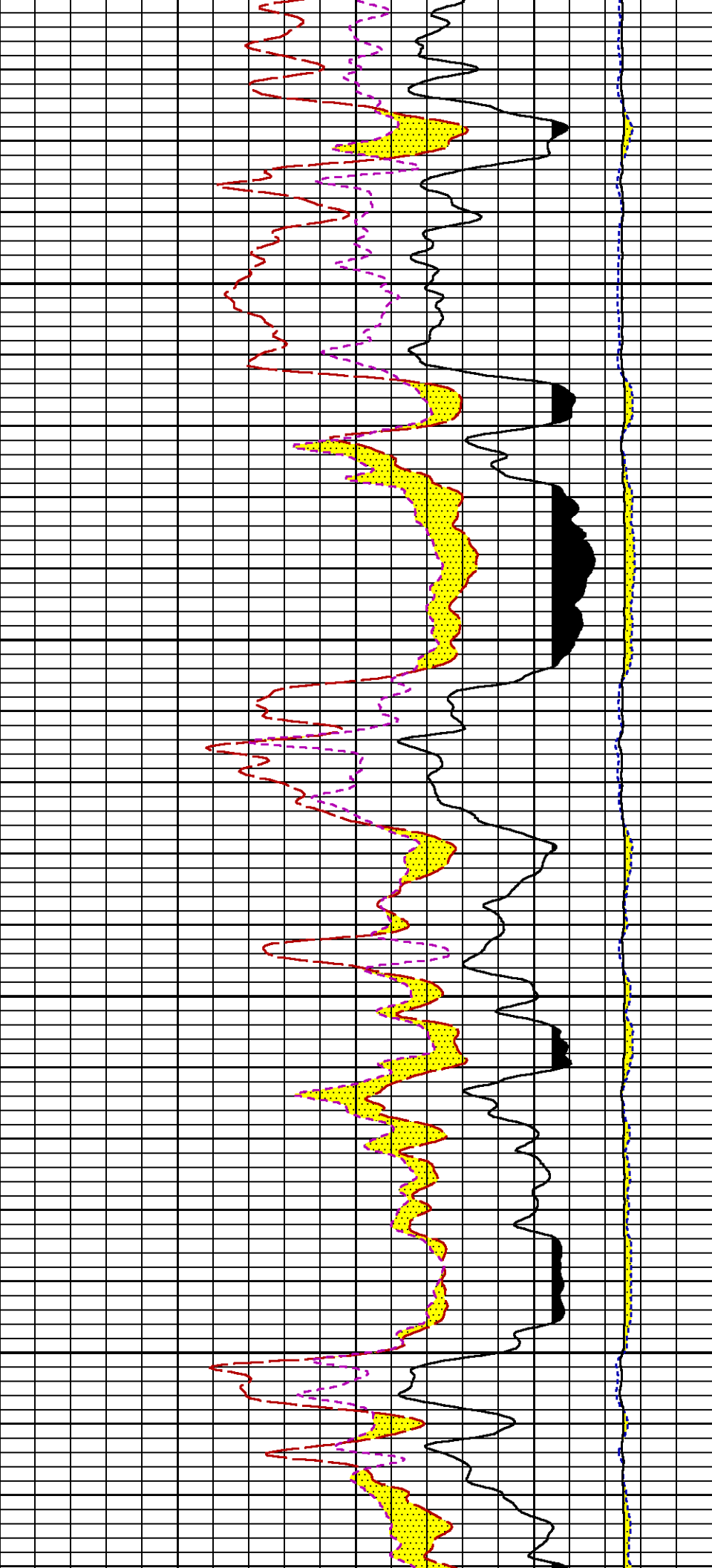


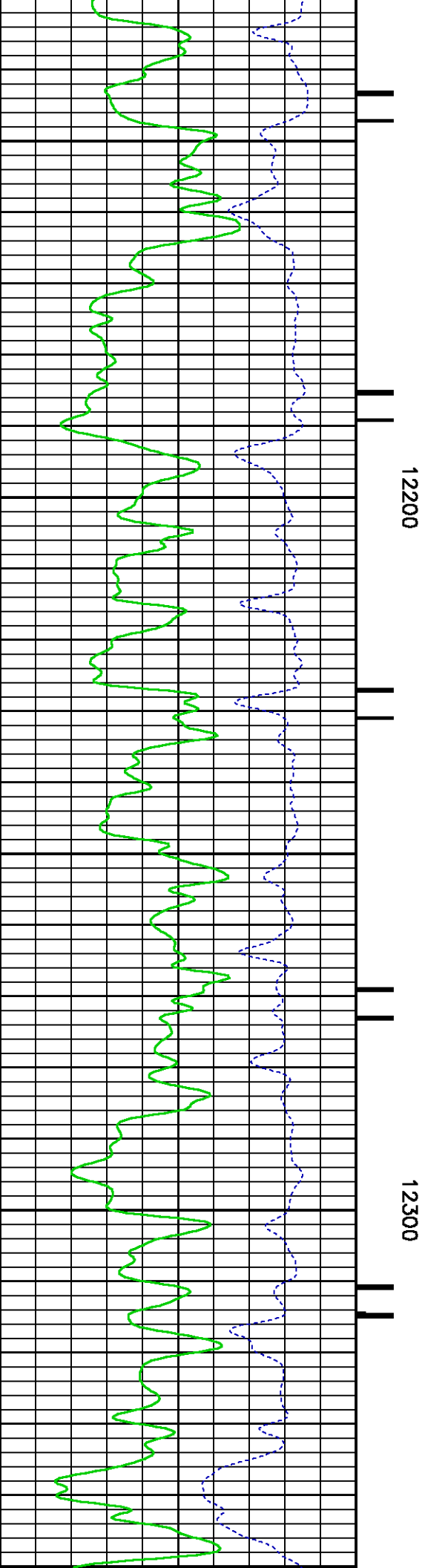
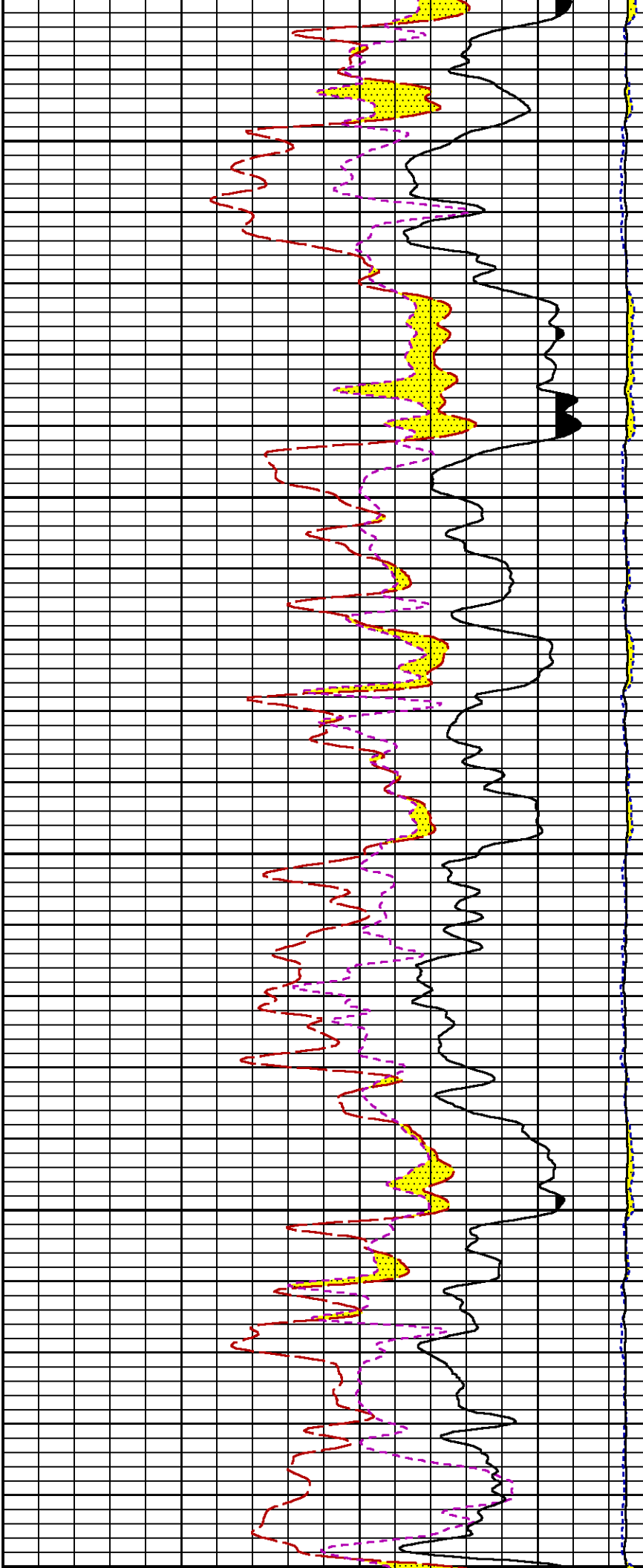


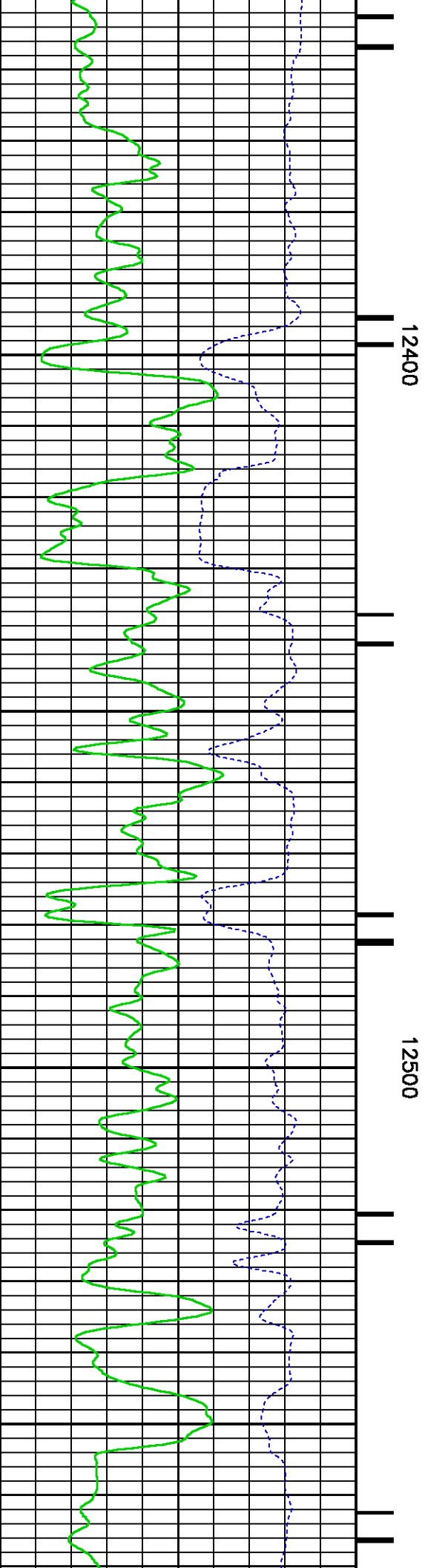
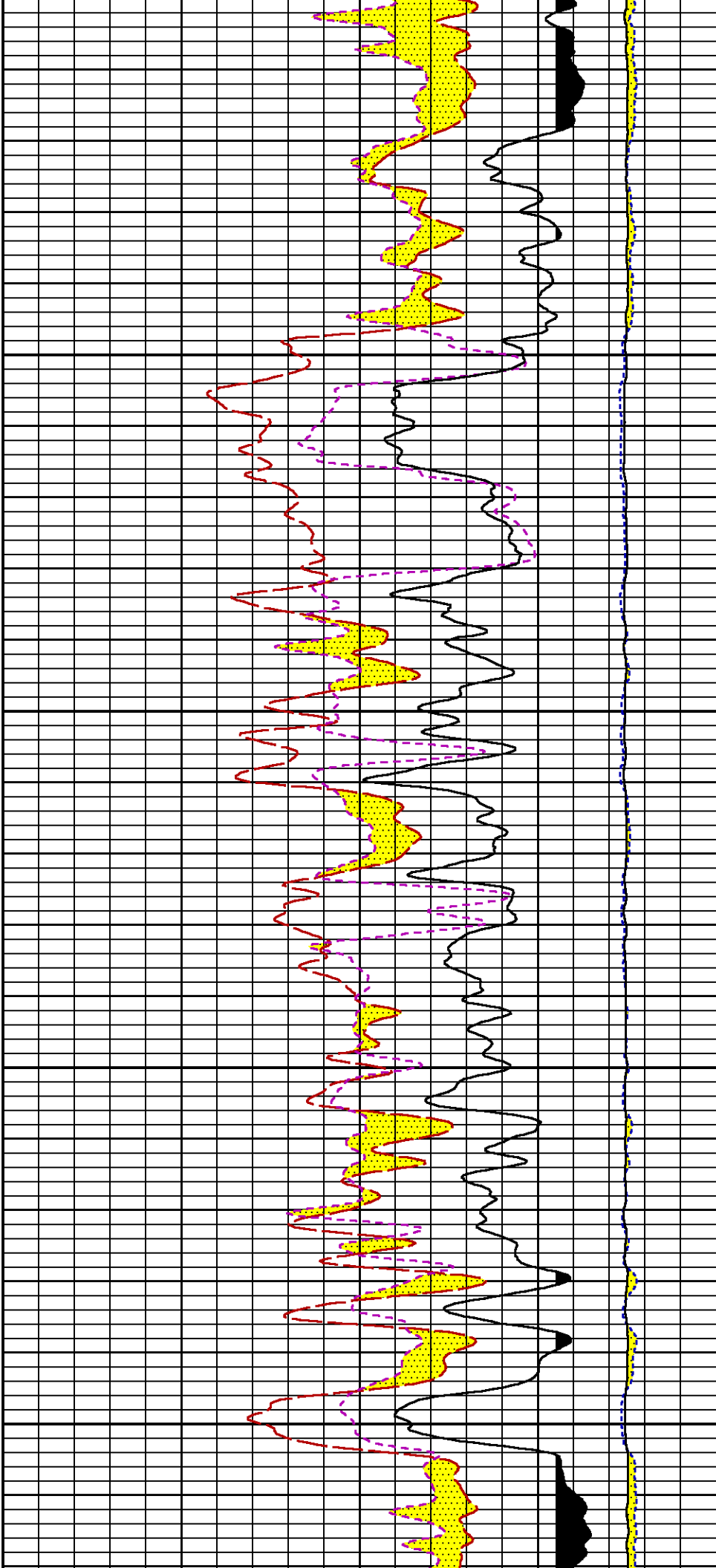


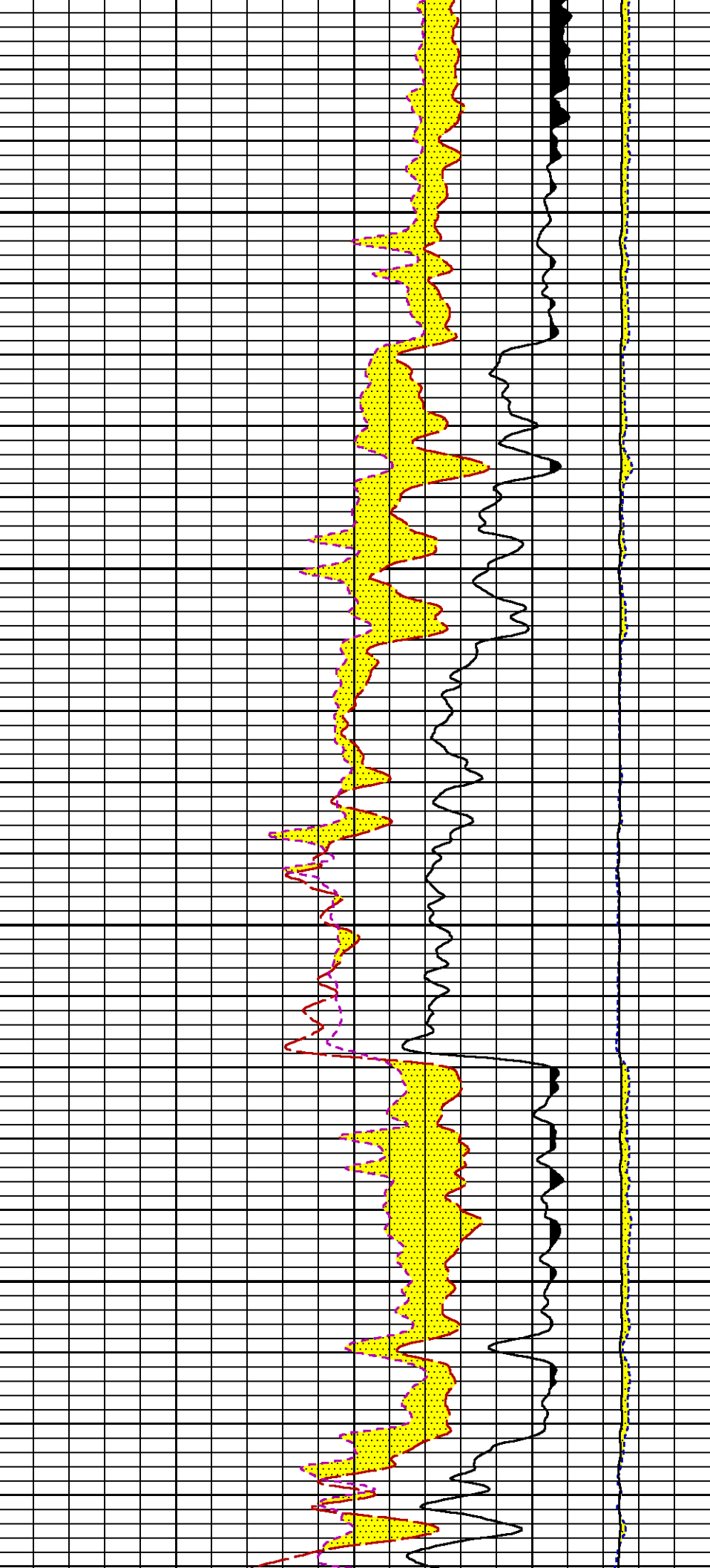






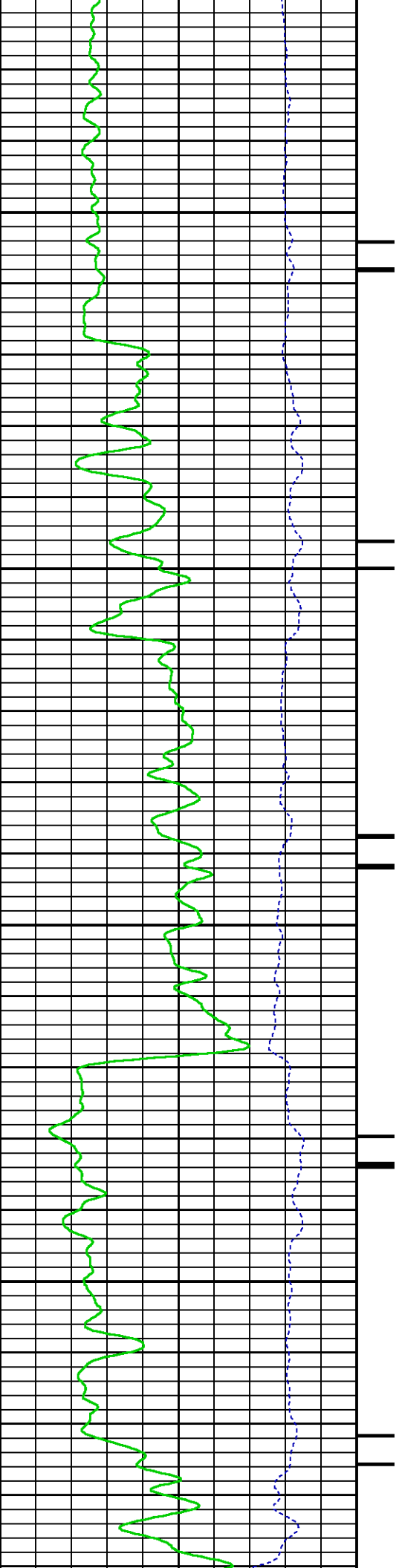


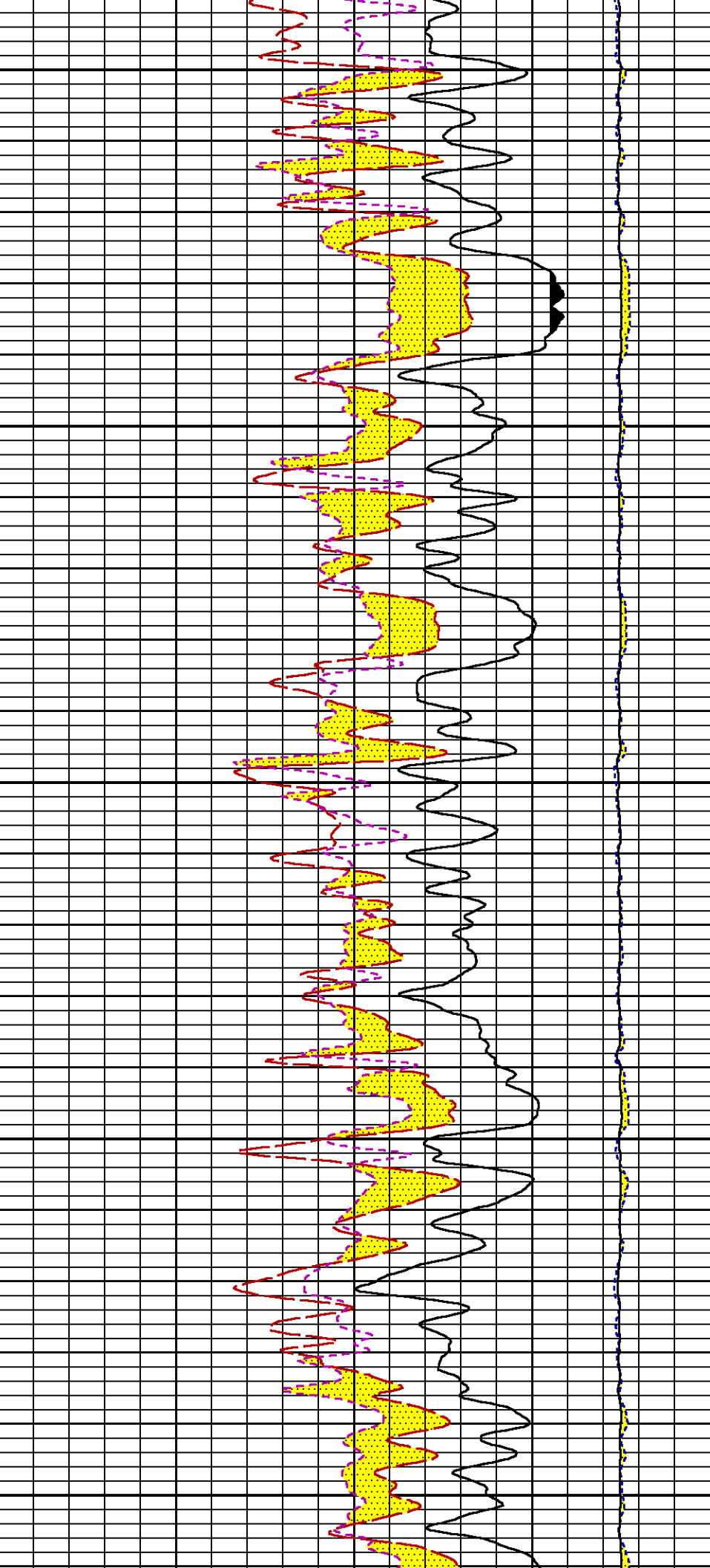




12600

12700

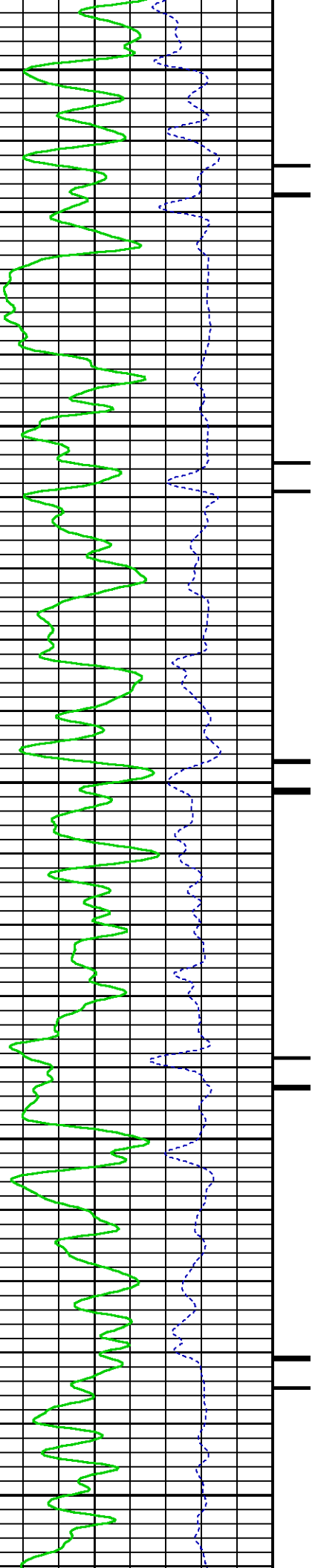


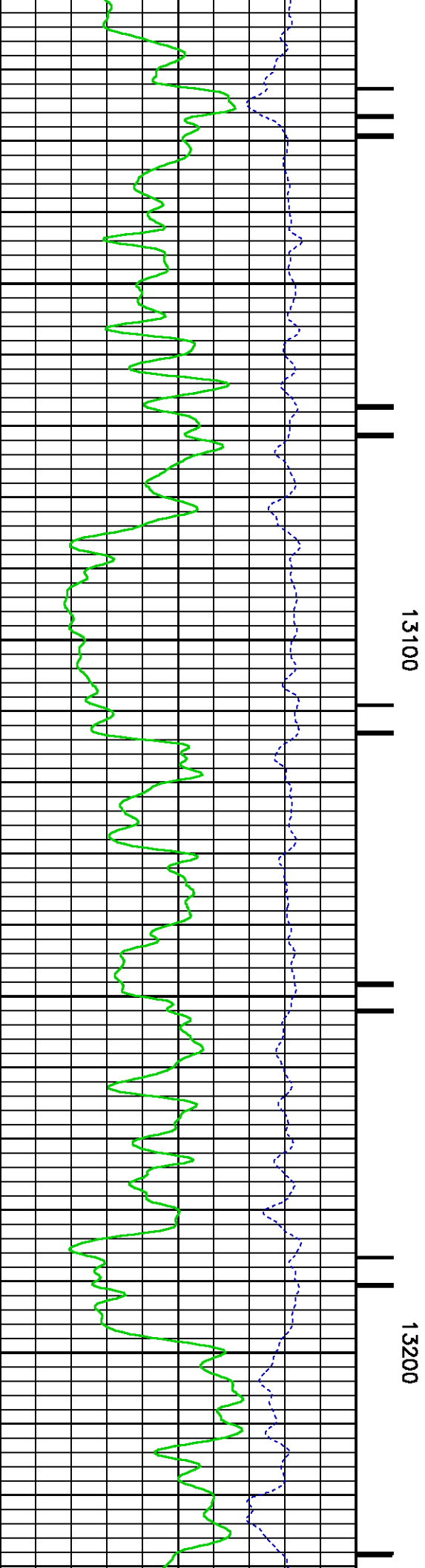
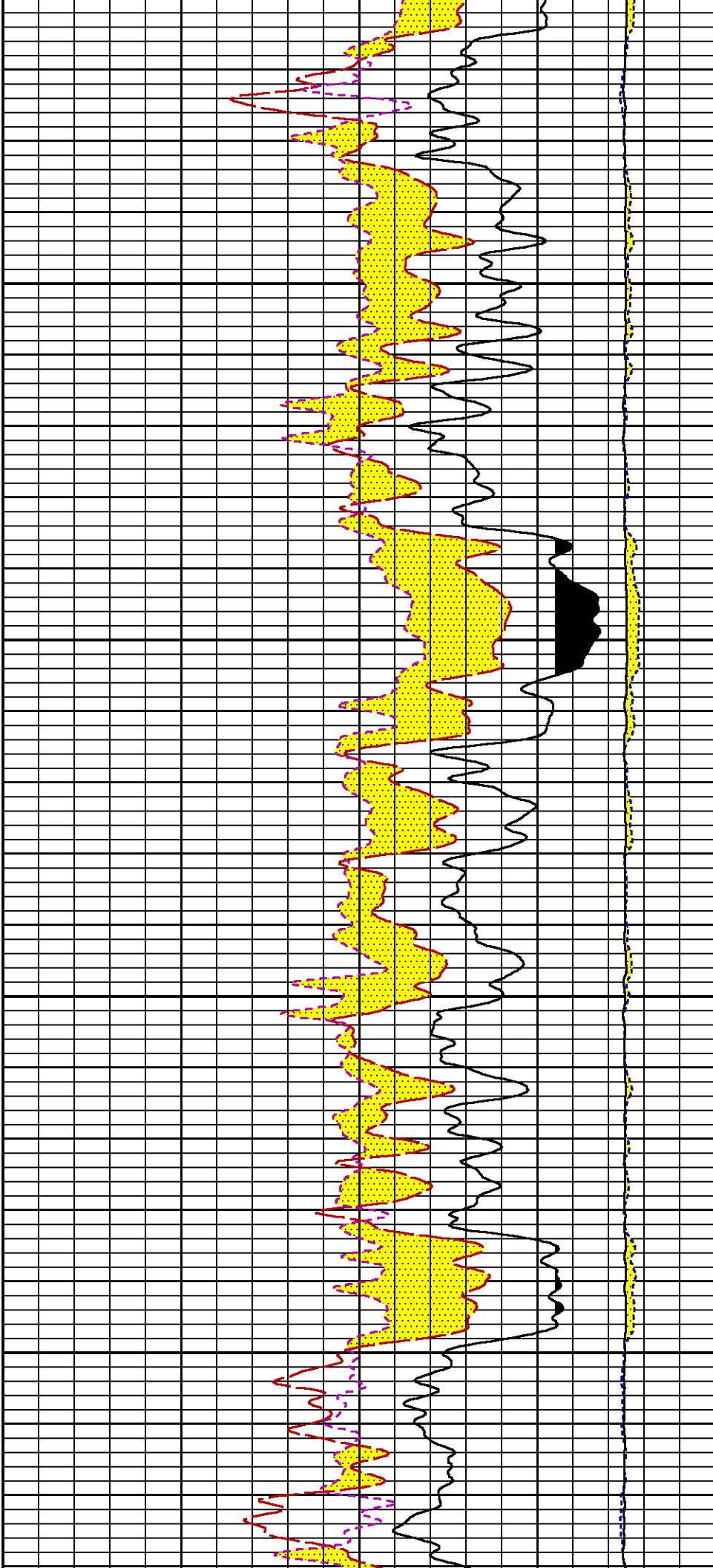


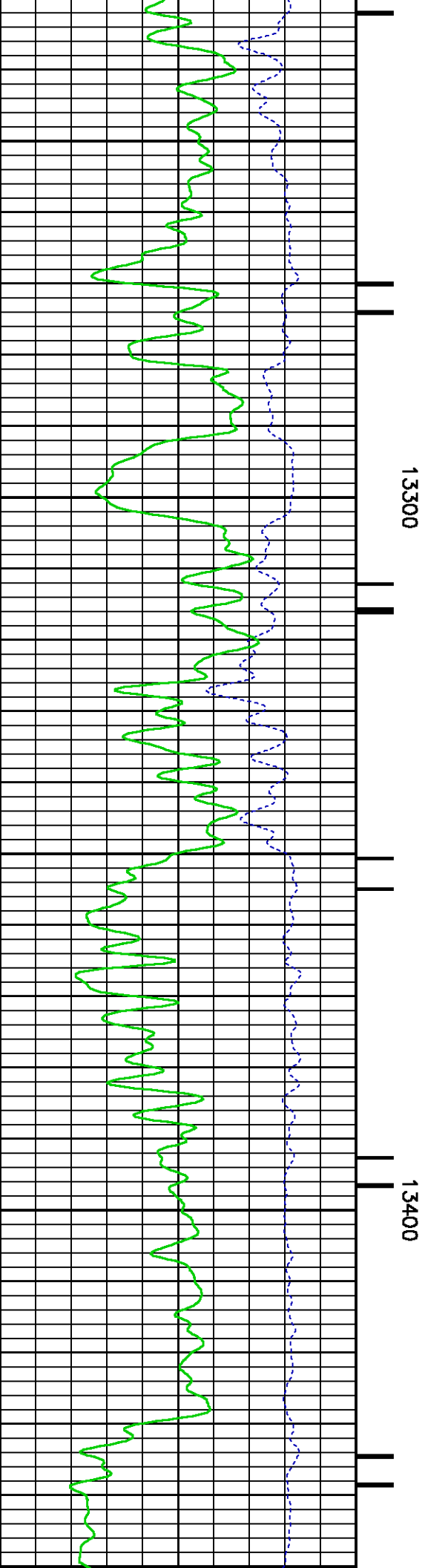
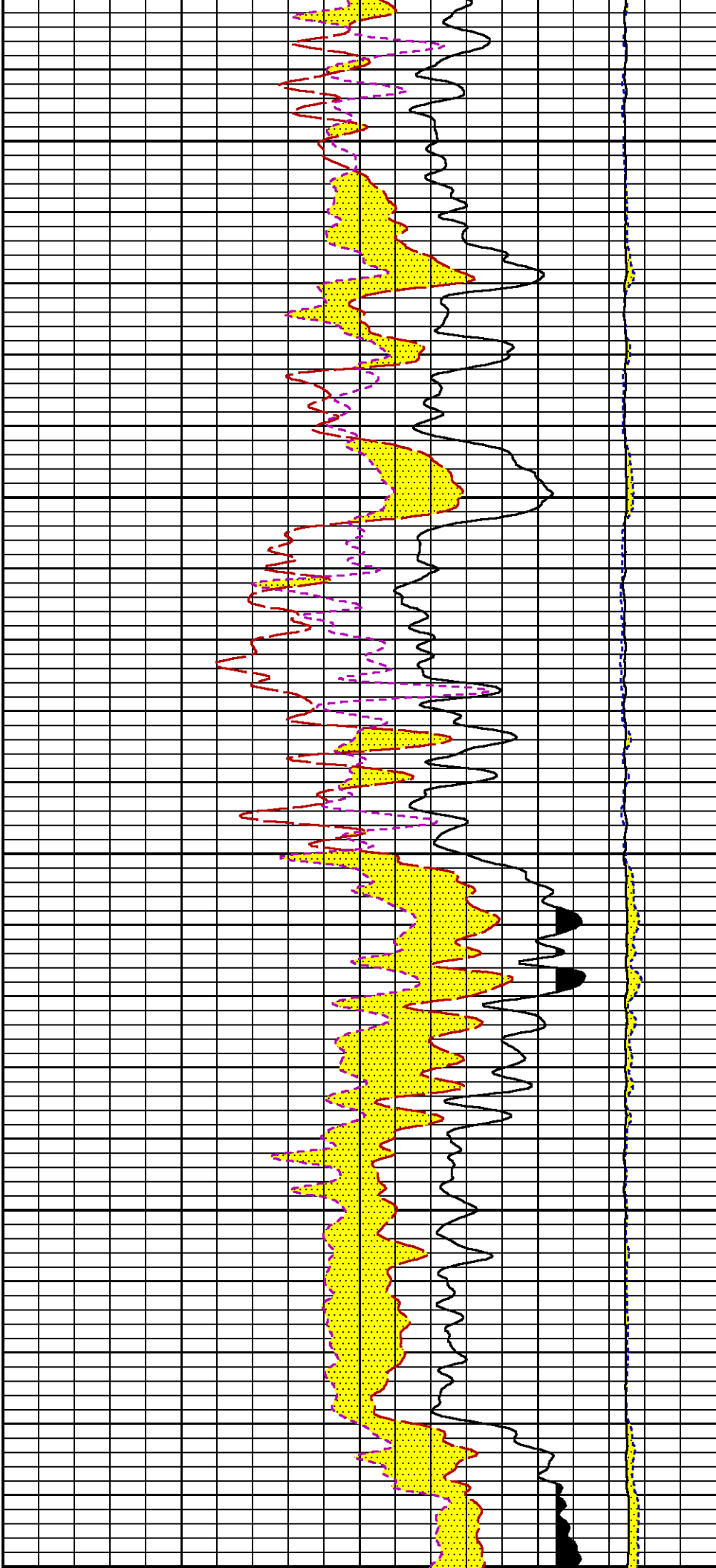
12800

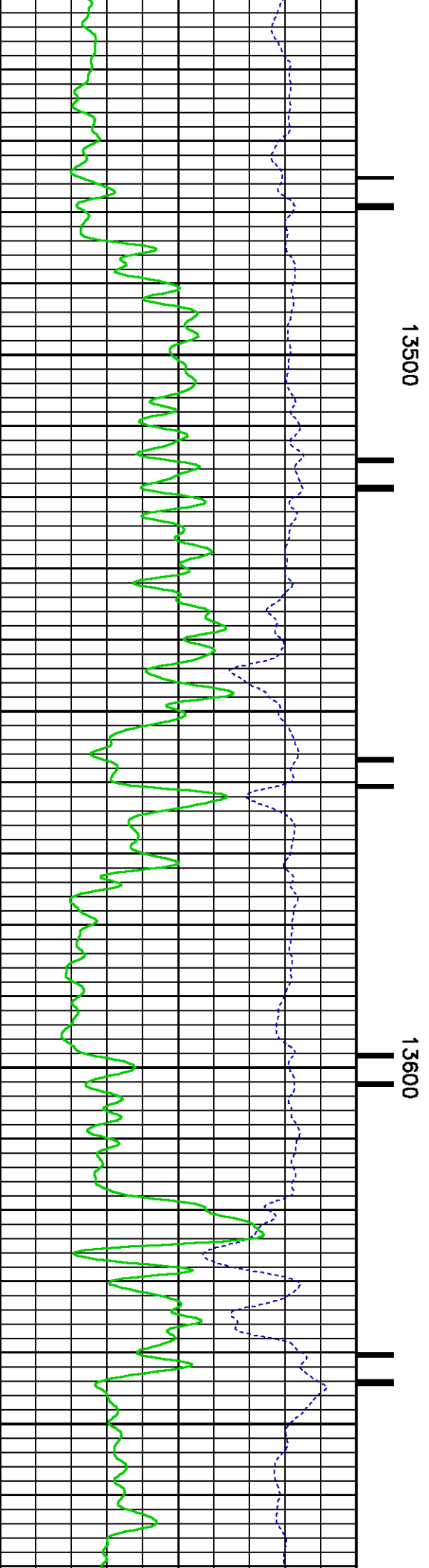
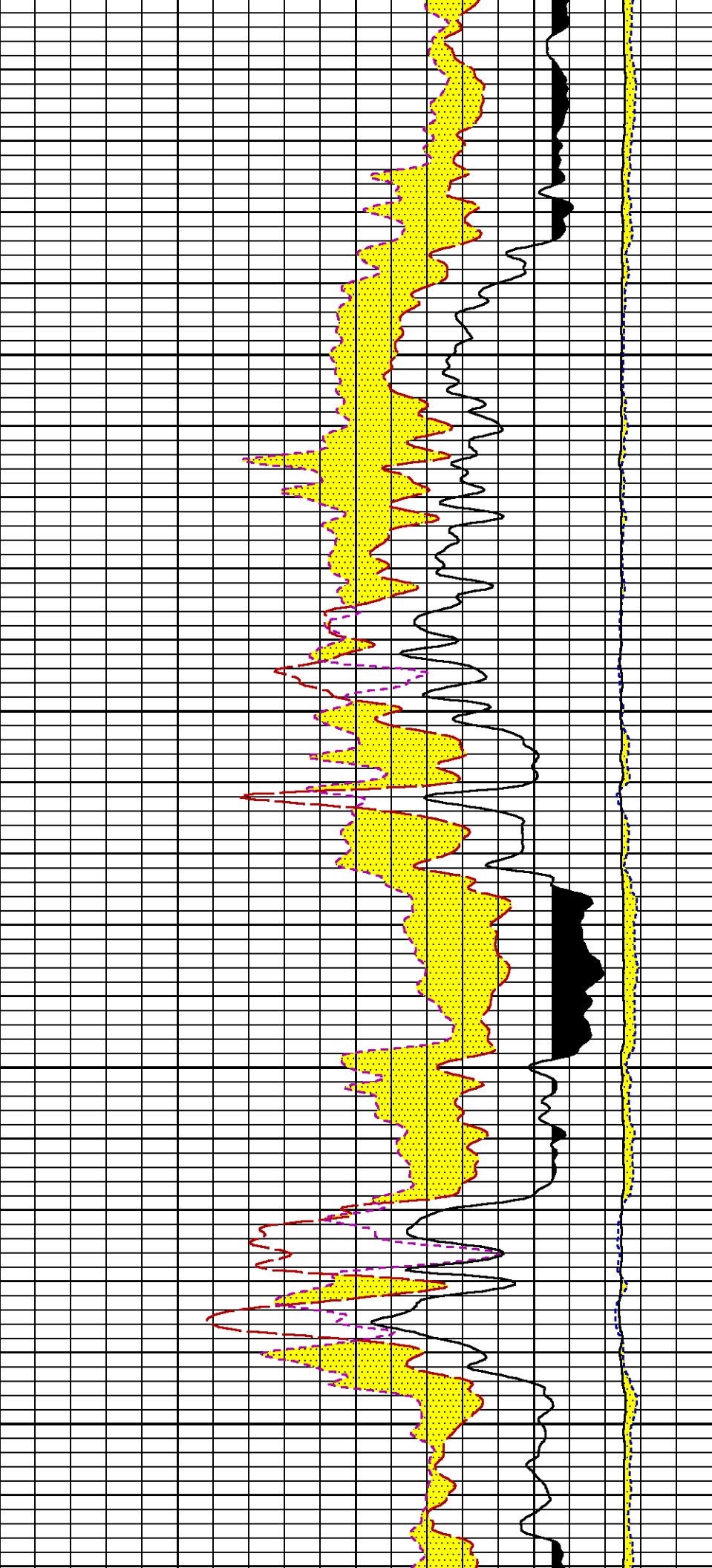
12900

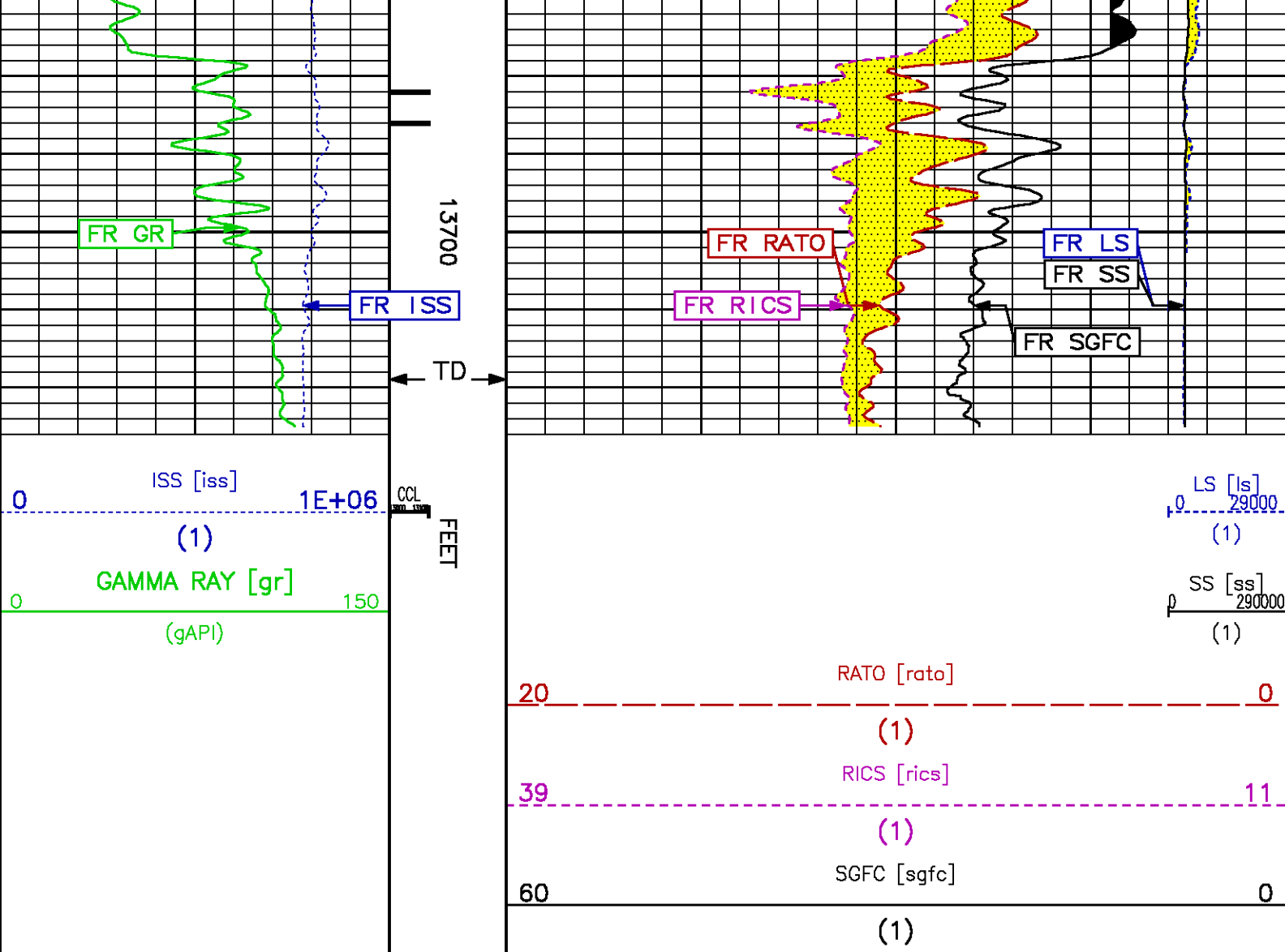
13000











REPEAT LOG PNC 3-D MODE

ECLIPS 6.11 Aug 06, 2010
Updates: 33 Patches: 2

Thu Jan 20 08:31:29 2011

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.50

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/534199/m353h01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 10672.500 ft BOTTOM DEPTH: 11205.000 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	6.12	In		
CASING SIZE	4.50	In		
MATRIX	SANDSTONE			
CORRECTION BUFFER	11			

CURVE DESCRIPTION REPORT

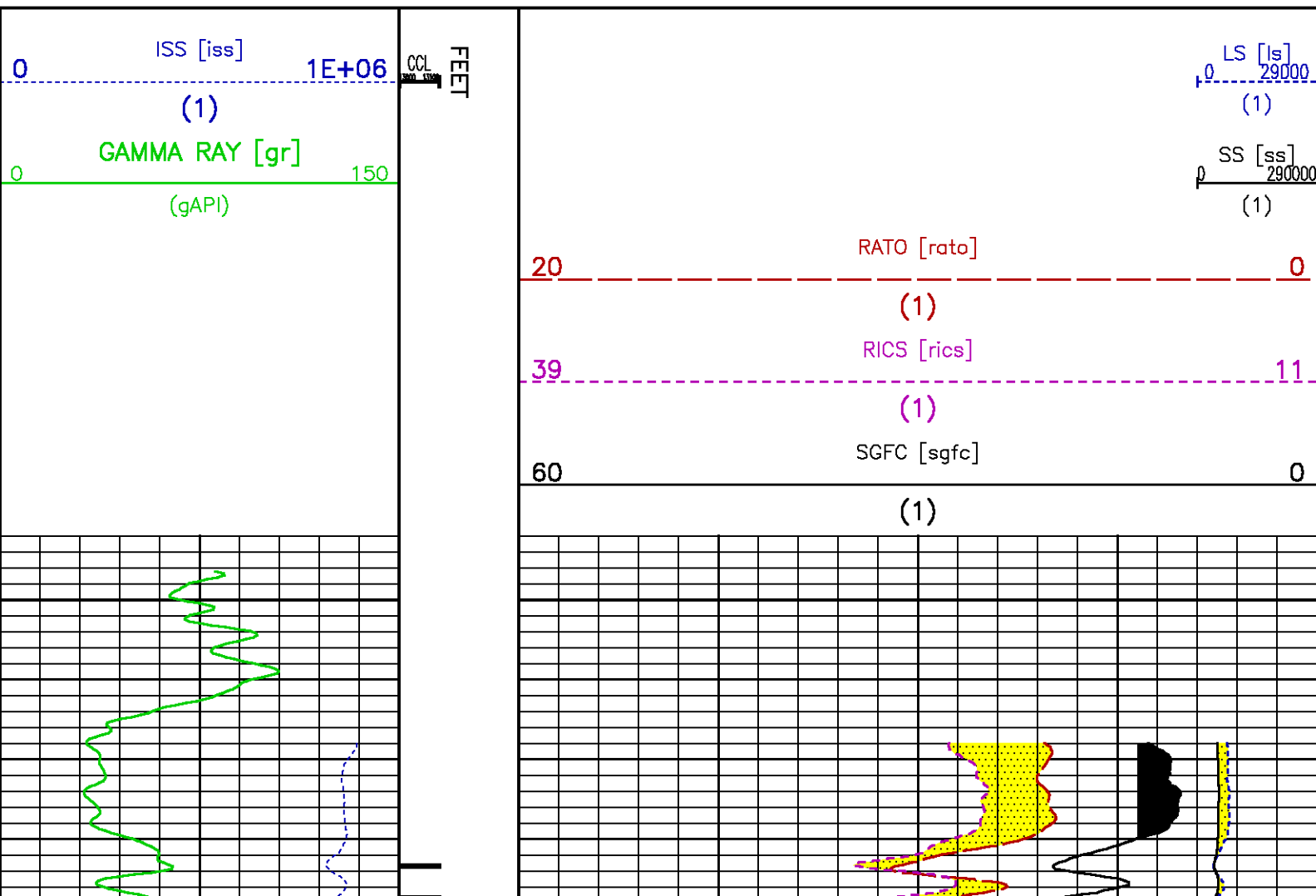
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Jan 19 00:46:55 2011	CASING COLLAR LOCATOR
F1:GR	Jan 19 00:46:55 2011	GAMMA RAY
F1:ISS	Jan 19 00:46:55 2011	INELASTIC SHORT SPACE COUNT RATE
F1:LS	Jan 19 00:46:55 2011	LONG SPACE COUNT RATE
F1:RATO	Jan 19 00:46:55 2011	SHORT/LONG SPACE COUNT RATE RATIO
F1:RICS	Jan 19 00:46:55 2011	SHORT SPACE INELASTIC TO CAPTURE COUNT RATE RATIO (ISS/CSS)
F1:SGFC	Jan 19 00:46:55 2011	CORRECTED FORMATION SIGMA
F1:SS	Jan 19 00:46:55 2011	SHORT SPACE COUNT RATE

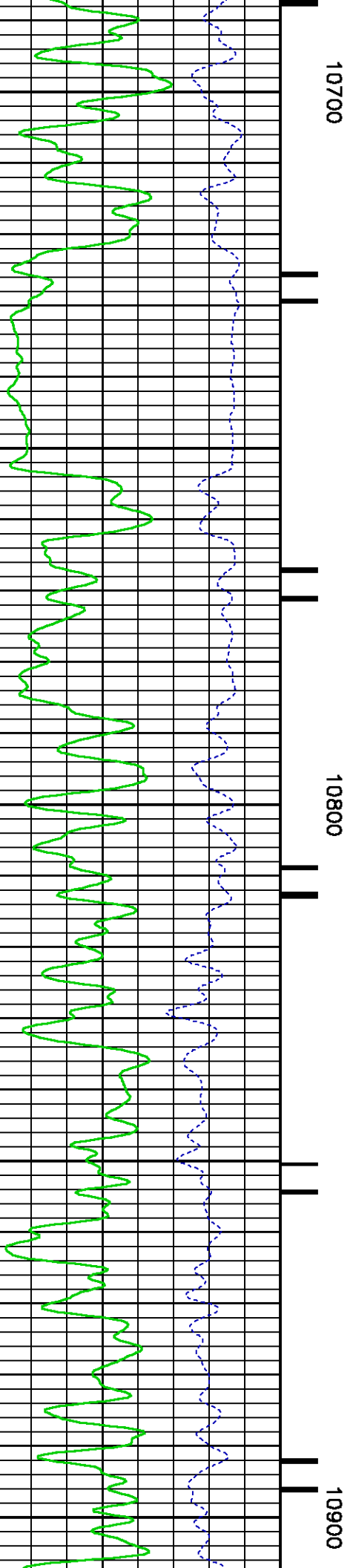
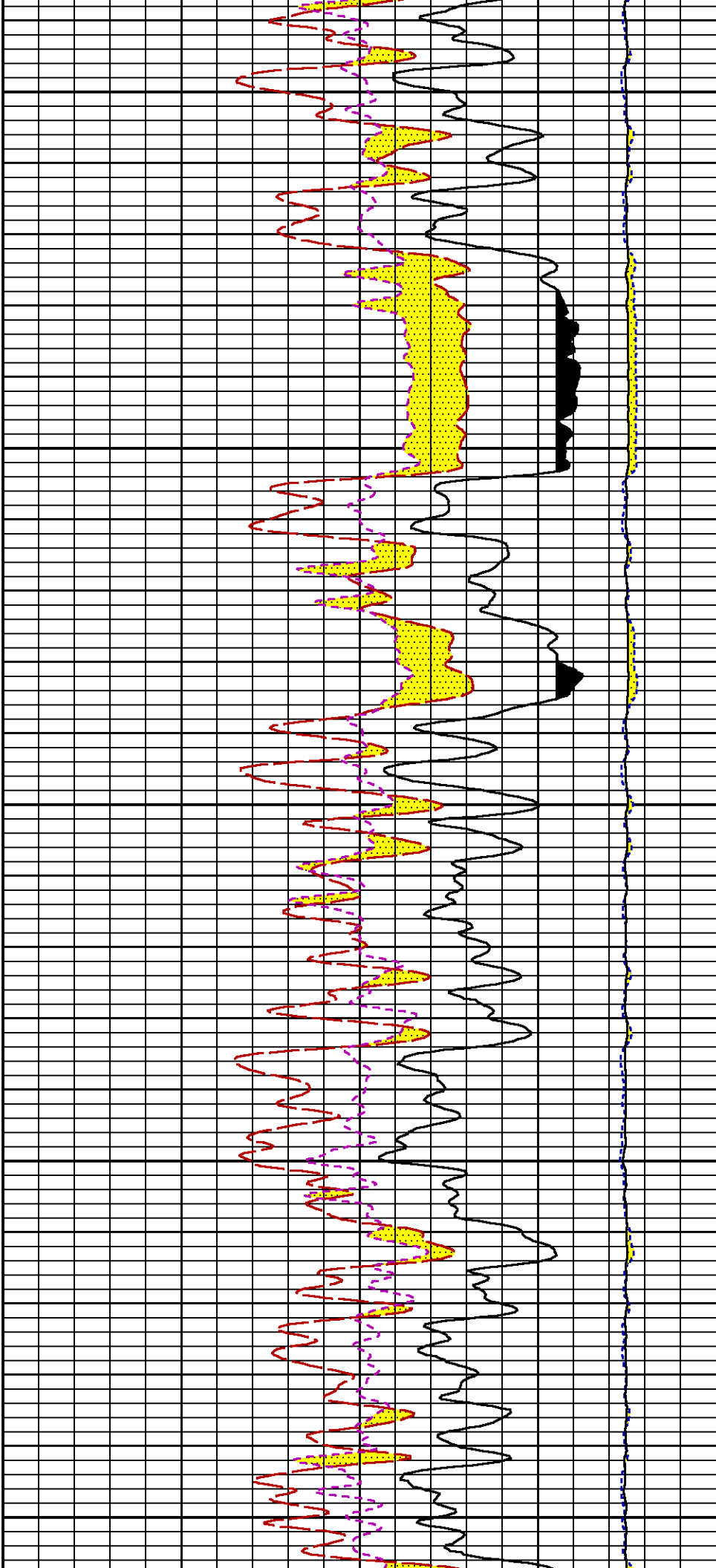
CURVE MEASURE POINT OFFSET

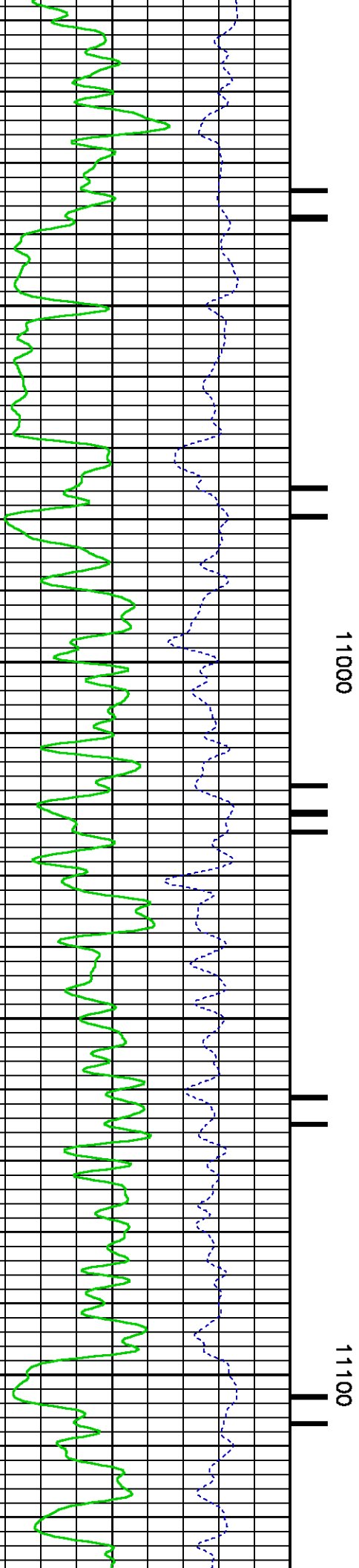
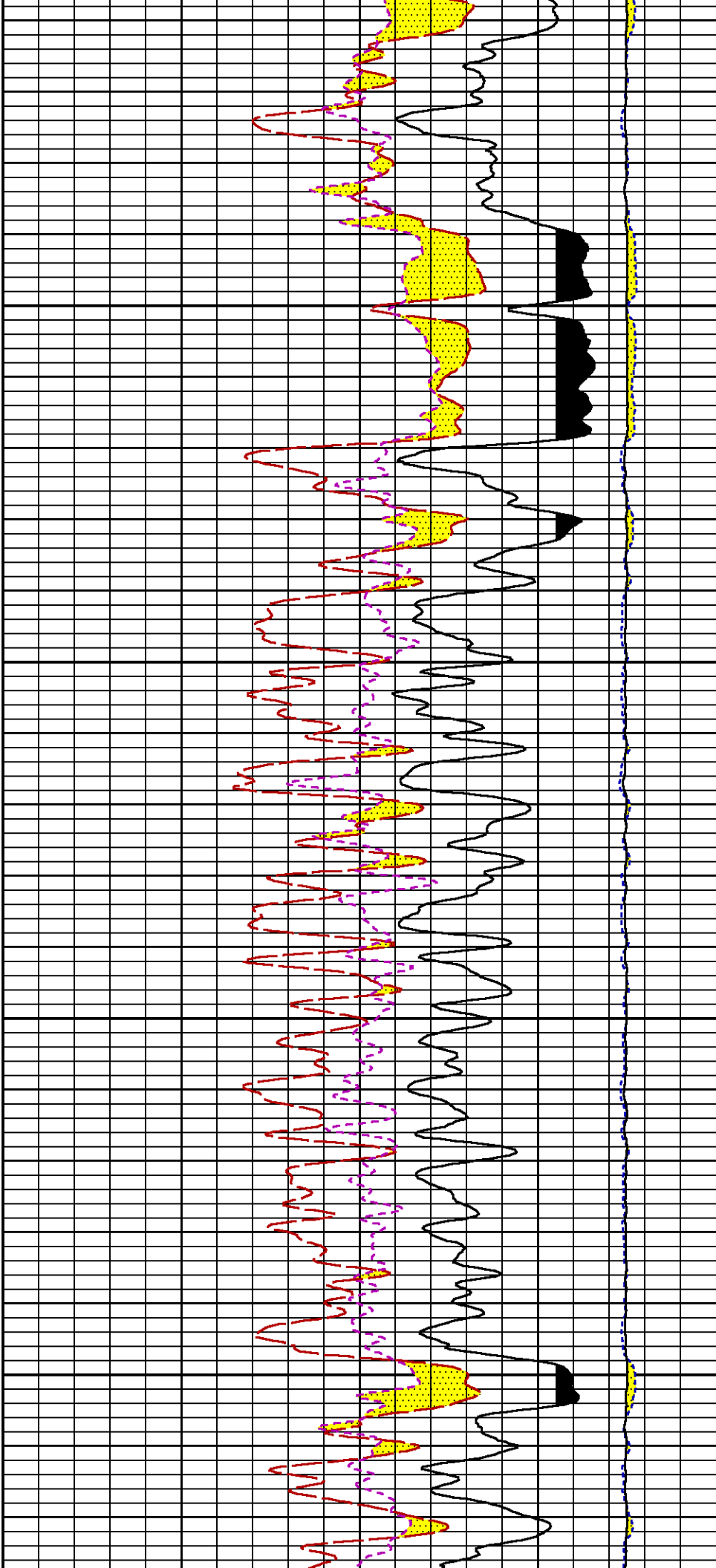
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	22.50	ISS	9.50	RATO	9.50	SGFC	9.50
GR	19.50	LS	9.50	RICS	9.50	SS	9.50

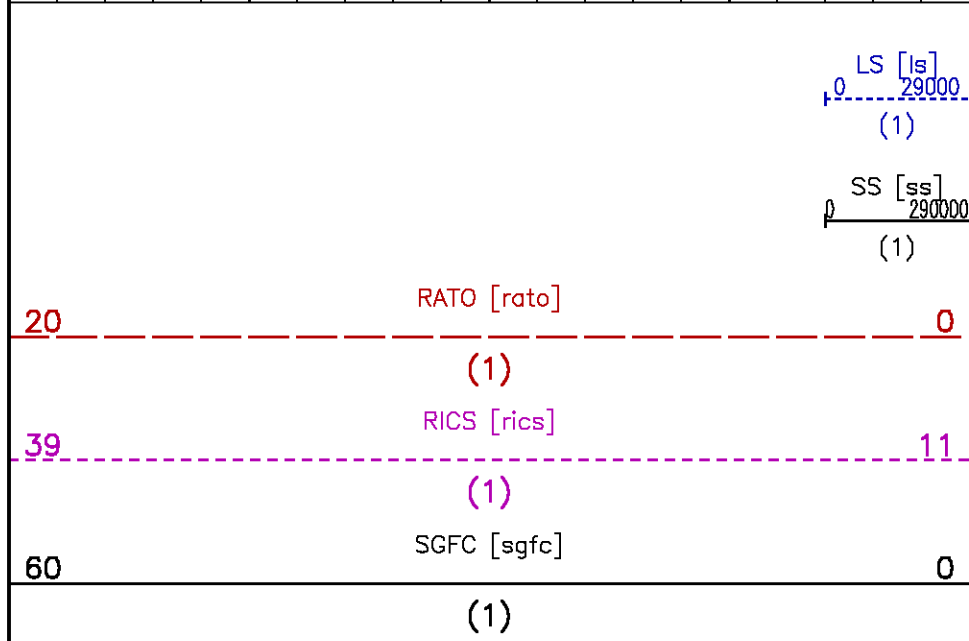
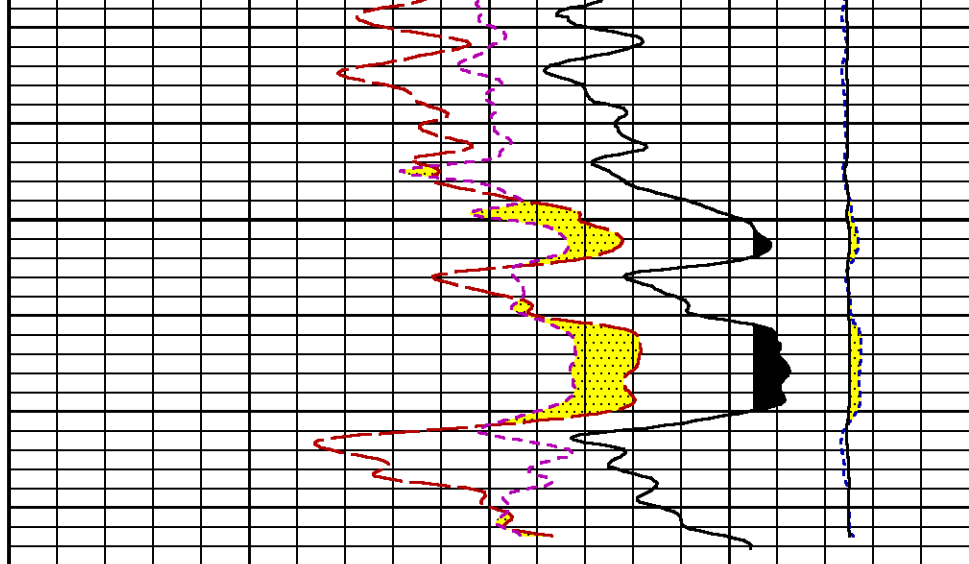
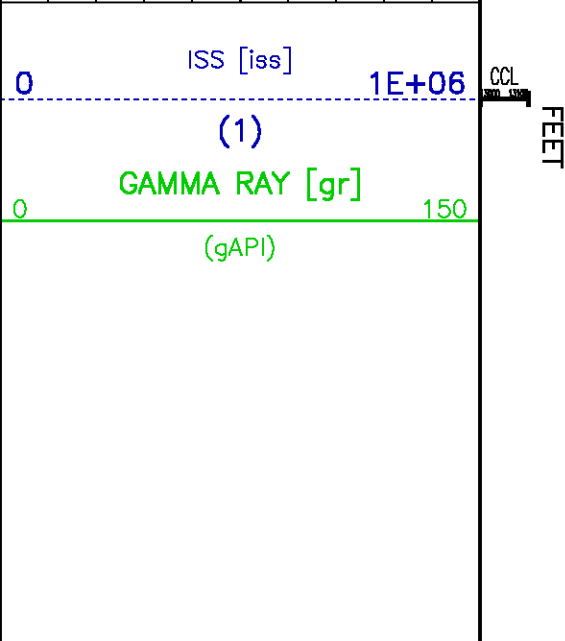
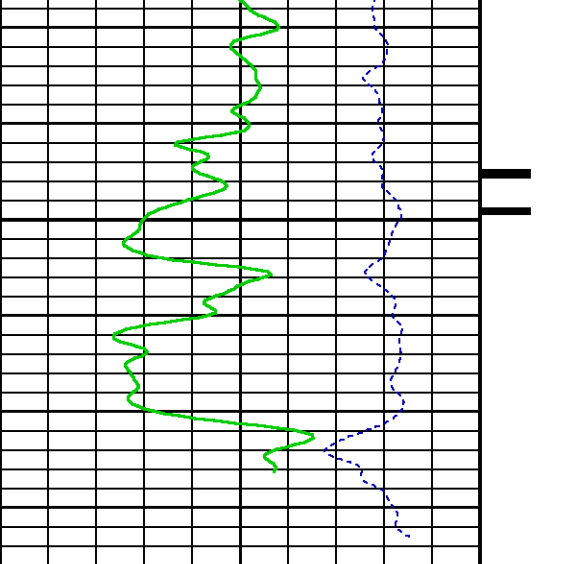
Presentation : HL6670:/dat1a/534199/RPM_PRESENTATION+01-REPEAT-REPEAT_RPM-5.pdf [5"/100' Scale]
 Plot Interval : 10842.2 - 11184.2 Feet

Data File 1 : F1 : HL6670:/dat1a/534199/REPEAT_RPM.xlf
 Created On : Jan 19 00:46:55 2011
 Company : EXXONMOBIL PRODUCTION COMPANY
 Well : PCU 296-6 A7
 Field : PICEANCE CREEK
 File Interval : 10842.2 - 11205 Feet
 Oct : m353h









CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/534198/m353h.tp1

GR PRIMARY CALIBRATION SUMMARY

TOOL #: B262XA 10485470

DATE/TIME PERFORMED: Thu Jan 13 09:31:08 2011

UNIT #: 3882TD HL6670

CALB JIG #: 4702NK WA-612

	BACKGROUND	CALBRTR ON	CR DIFF	MULT	BACKGROUND	CALBRTR ON	CALBRTR
	(cts/s)	(cts/s)	(cts/s)		(gAPI)	(gAPI)	(gAPI)
GR	155.02	490.58	335.6	0.536	83.16	263.16	180

GR PRIMARY VERIFICATION SUMMARY

TOOL #: B262XA 10485470

DATE/TIME PERFORMED: Thu Jan 13 09:36:34 2011

UNIT #: 3882TD HL6670

VERI JIG #: 4702NK WA-612

	BACKGROUND	CALBRTR ON	MULT	BACKGROUND	CALBRTR ON	DIFF.
	(cts/s)	(cts/s)		(gAPI)	(gAPI)	(gAPI)
GR	157.20	491.08	0.536	84.33	263.43	179.11

RPM_PNC_3D PRIMARY CALIBRATION SUMMARY

TOOL #: **8283PA 11778244**

DATE/TIME PERFORMED: **Thu Jan 13 11:07:16 2011**

UNIT #: **3882TD HL6670**

BARREL #: **2437XB GJSHOP**

SOURCE #: **8281AA 11710723**

	ISS	Mtr Vlt (V)	SS Gain	LS Gain	XLS Gain	EA Temp (degF)	Sync Delay (usec)	RCAL
Raw Data	795779	123	2244	2328	2345	116	8	0.9701

Interpolated	1300000	144	2228	2324	2340
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	ISS	BKS	BKL	BKX	SGA1	SDA1	SGA2	SDA2
Raw Data	795779	6828	1084	417	26.01 25.35 26.40	0.15 0.00 0.20	23.97 23.60 24.80	0.34 0.00 0.40

	ISS	ILS	IXS	SS	SS2	LS	CSS	CLS
Raw Data	795779	162847	25078	86942	30971	8021	52685	12812
Fit Quality %		0.894	0.907	0.752	0.771	0.895	0.749	0.883

	ISS	RBOR	RIN ISS/ILS	RIN13 ISS/IXS	RICS ISS/CSS	RATO SS/LS	RTWO SS2/LS	RONE CSS/CLS
Raw Data	795779	1.44 1.42 1.45	4.89 3.65 5.52	31.75 22.20 32.70	15.11 10.99 18.34	10.84 10.08 11.10	3.88 3.57 3.95	4.11 3.78 4.22
Fit Quality %		0.041	0.106	0.050	0.110	0.205	0.183	0.155
Reduced	1410072	1.43 1.42 1.45	4.89 4.33 5.52	31.73 27.80 32.70	15.09 13.70 18.34	10.88 10.08 11.10	3.87 3.57 3.95	4.12 3.78 4.22

INSTRUMENT CONFIGURATION

Source File: /dat1a/534199/m353h^{nm}-tdg

A3 CABLEHEAD

Diameter : 1.37"

PCM POWER SUPPLY

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

TELEMETRY / CCL

Diameter : 1.70"
Length : 4.48"
Weight : 20 lbs
Series : 8248ED
Mnemonic : PCM
Measure Point: 1.00': CCL MP

30.78'

GAMMA RAY

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

CCL MP 22.73'

GR MP 19.59'

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

XLS DETECTOR 10.27'

LS DETECTOR 9.86'

SS DETECTOR 9.61'

RPM SOURCE SECTION

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

BULL PLUG 1 11/16

0.00'

TOTAL LENGTH: 30.78'
TOTAL WEIGHT: 131 lbs
MAX DIAMETER: 0'1.70"

HUGHES

Baker Atlas



FIELD PICEANCE CREEK

COUNTY

RIO BLANCO

STATE COLRADO

API NO:

05103114790100

LOCATION:

SHL: 485' FSL & 1908' FWL

ELEVATIONS:

KB 7393.20 FT

DF 7392.20 FT

GL 7366.30 FT

SEC 6 TWP 2S RGE 96W

DATE 18-Jan-2011