



FILE NO: CH105967	COMPANY CAERUS OPERATING LLC
API NO: 05045226150000	WELL PUCKETT 13D-1
	FIELD GRAND VALLEY
	COUNTY GARFIELD
	STATE COLORADO

Ver. 4.06	LOCATION:	OTHER SERVICES
SEC 1 T 7S R 97W	SHL: 313 FEEL & 1100' FSL, 2 7S 97W	BOND LOG
PAD: MESA P2-797	BHL: 696 FEEL & 1501' FSL, 1 7S 97W	
RIG: H&P 330	SEC 1 TWP 7S RGE 97W	

PERMANENT DATUM	GL	ELEVATION	8423.8 FT
LOG MEASURED FROM	K.B.	30 FT	ABOVE P.D.
DRILL. MEAS. FROM	K.B.		
		ELEVATIONS:	
		KB	8453.8 FT
		DF	
		GL	8423.8 FT

DATE	01-Mar-2016
RUN	1
TRIP	1
SERVICE ORDER	US105967
DEPTH DRILLER	8868 FT
DEPTH LOGGER	8657 FT
BOTTOM LOGGED INTERVAL	8644 FT
TOP LOGGED INTERVAL	4140 FT
TIME STARTED	9:30
TIME FINISHED	15:00
OPERATOR RIG TIME	5.5 HOURS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	NA
LOGGED CEMENT TOP	NA
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	10 FMIN
MAX. RECORDED TEMP.	219 DEGF
REFERENCE LOG	BAKER HUGHES BOND LOG
REFERENCE LOG DATE	01-Mar-2016
EQUIP. NO.	HL-6670
LOCATION	GRAND JCT
RECORDED BY	T. NEWELL
WITNESSED BY	MR. MLEIBOVITZ

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
8.75 IN	1200 FT	8887 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
4.5 IN	11.6 LB/F	P-110	0 FT	8922 FT

REMARKS
RUN 1 TRIP 1: ALL DATA ON THIS LOG IS DEPTH SHIFTED TO THE GAMMA-RAY CURVE ON THE BAKER HUGHES BOND LOG DATED 01-MAR-2016
LOGGED WITH 0 PSI AT SURFACE
SJ = 6787' - 6795'
BHT = 219 DEGF
THANKS FOR CHOOSING BAKER HUGHES WIRELINE

EQUIPMENT DATA				
RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.
1	1	DCM	025051	7120222

1	1	PCM	8250EA	Z166326	FREE
1	1	TEL/CCL	8248ED	10387150	FREE
1	1	GR	2812LA	10274382	FREE
1	1	RPM	8281EA	10423671	FREE
1	1	RPM	8283PA	10585555	FREE
1	1	RPM	8281FA	10460082	FREE
1	1	TEMP	8255XA	166341	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: 9

Plotted: Tue Mar 1 14:49:16 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH105967/n354h02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 4139.250 ft BOTTOM DEPTH: 8665.021 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	8.75	in	"	"
	CASING SIZE	4.50	in	"	"
	MATRIX	SANDSTONE		"	"
	CORRECTION BUFFER	11		"	"

CURVE DESCRIPTION REPORT

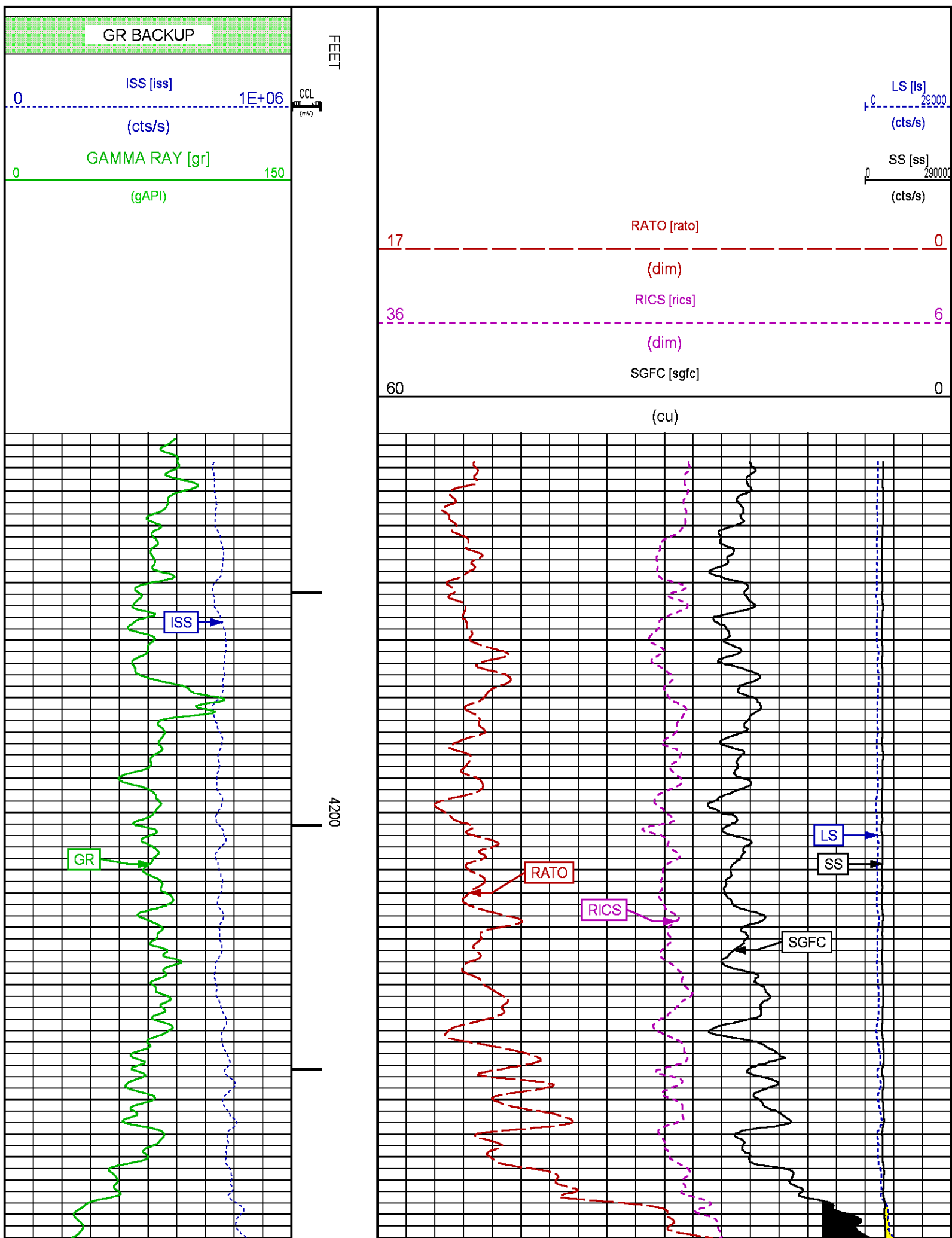
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Mar 1 09:48:53 2016	CASING COLLAR LOCATOR
F1:GR	Mar 1 09:48:53 2016	GAMMA RAY
F1:ISS	Mar 1 09:48:53 2016	INELASTIC SHORT SPACE COUNT RATE
F1:LS	Mar 1 09:48:53 2016	LONG SPACE COUNT RATE
F1:RATO	Mar 1 09:48:53 2016	SHORT/LONG SPACE COUNT RATE RATIO
F1:RICS	Mar 1 09:48:53 2016	SHORT SPACE INELASTIC TO CAPTURE COUNT RATE RATIO (ISS/CSS)
F1:SGFC	Mar 1 09:48:53 2016	CORRECTED FORMATION SIGMA
F1:SS	Mar 1 09:48:53 2016	SHORT SPACE COUNT RATE

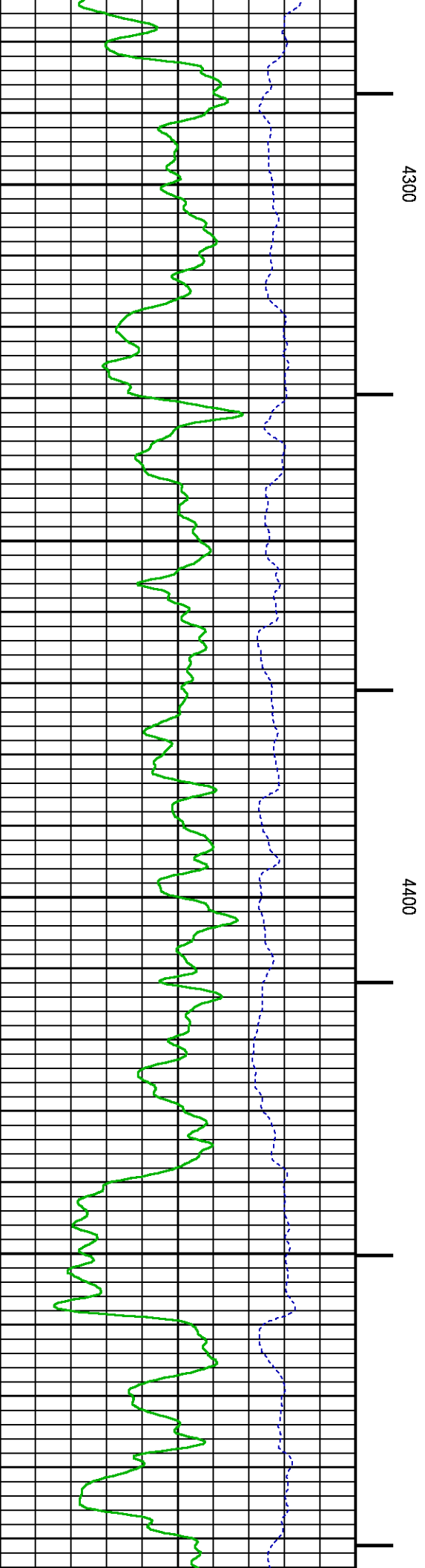
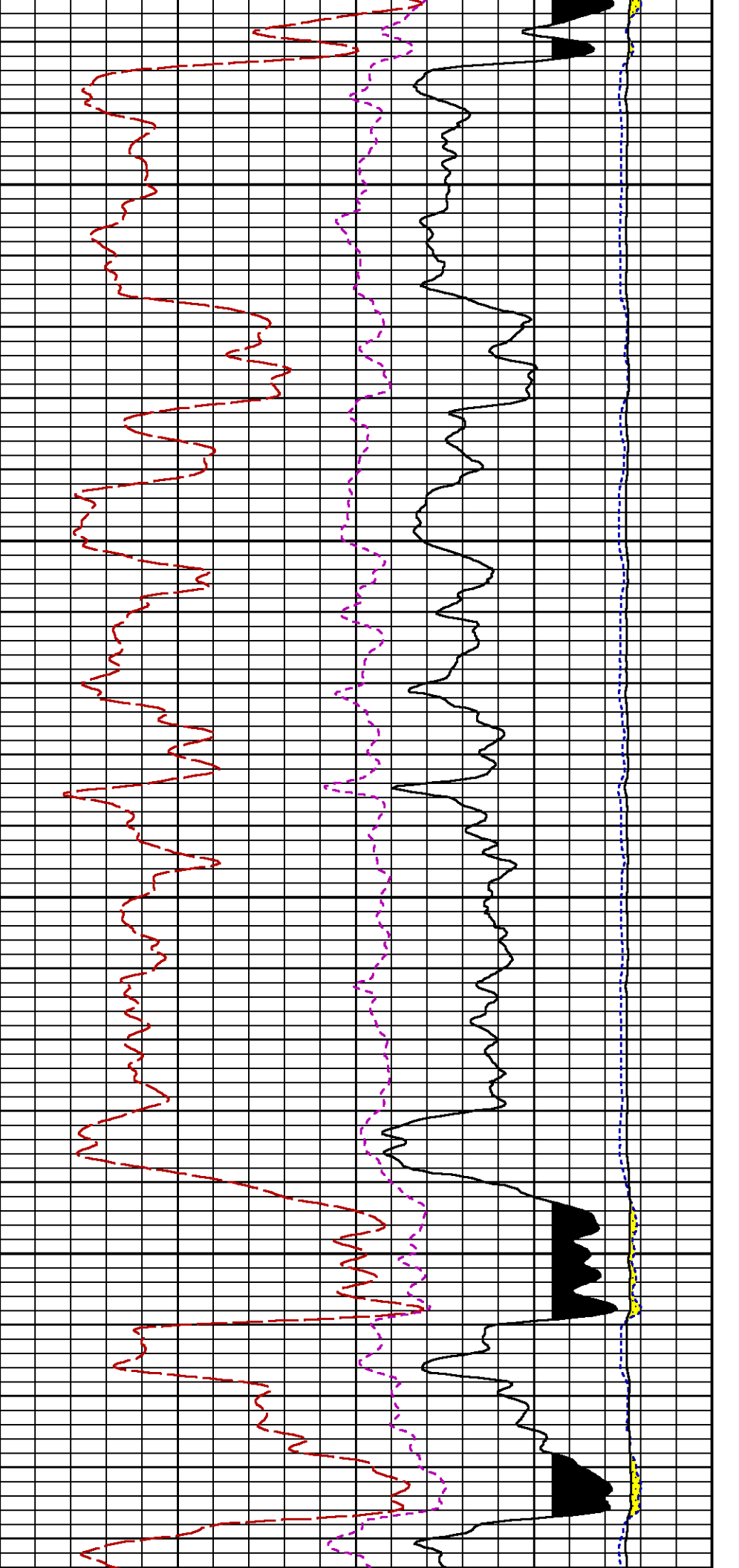
CURVE MEASURE POINT OFFSET

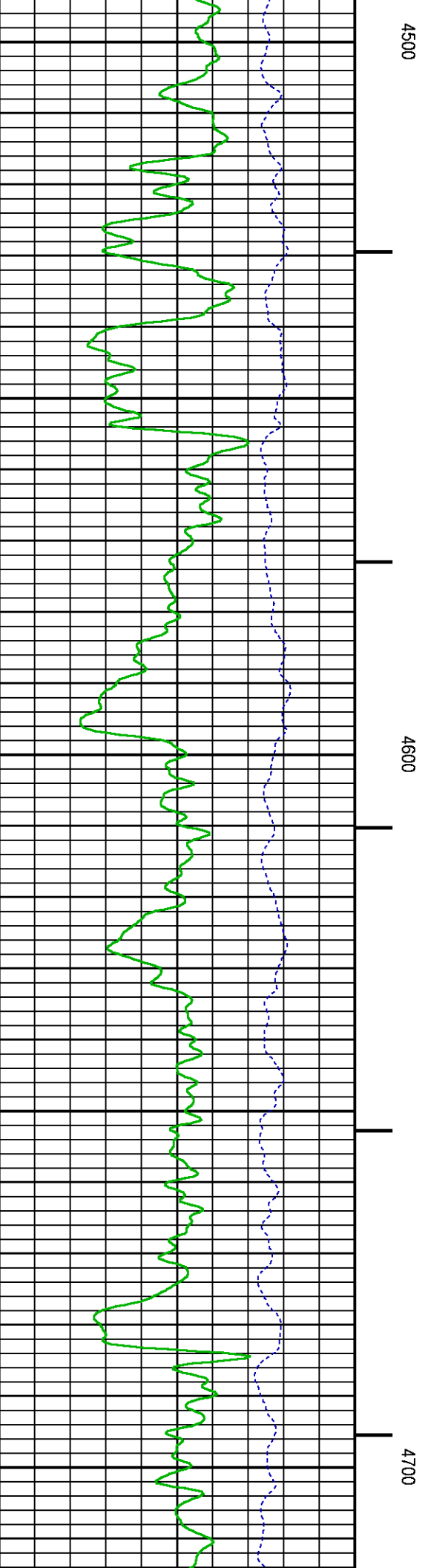
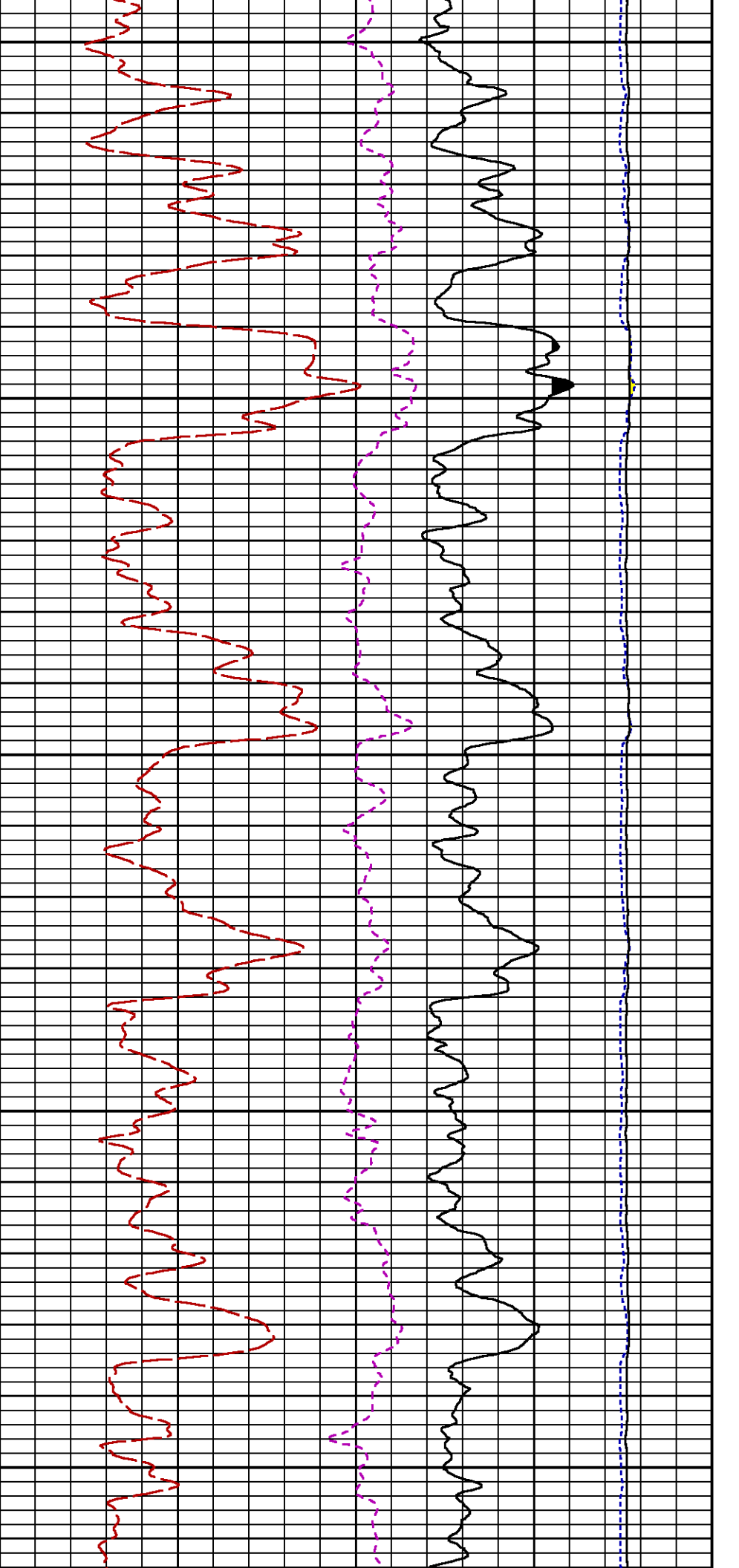
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	25.00	ISS	12.75	RATO	12.75	SGFC	12.75
GR	22.75	LS	12.75	RICS	12.75	SS	12.75

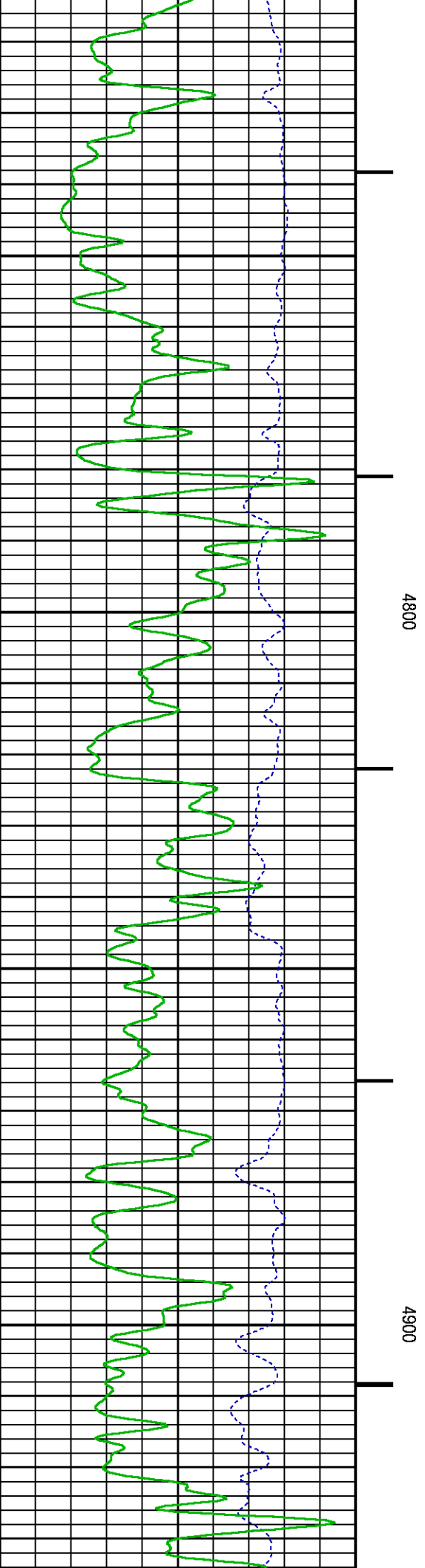
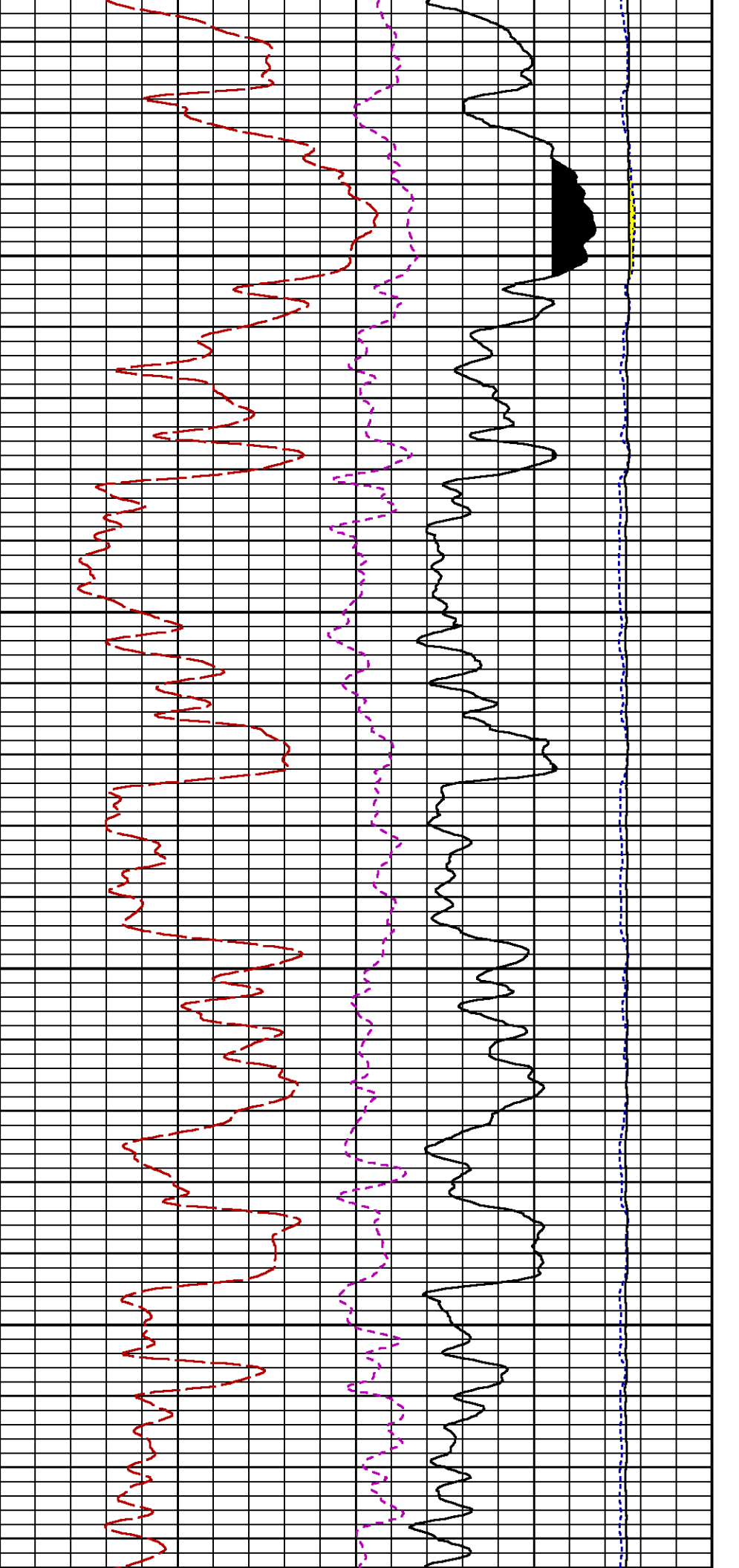
Presentation : cpu100:/dat1a/CH105967/13D1_RPM_MAIN.fvpdf [5"/100' Scale]
 Plot Interval : 4135 - 8670 Feet

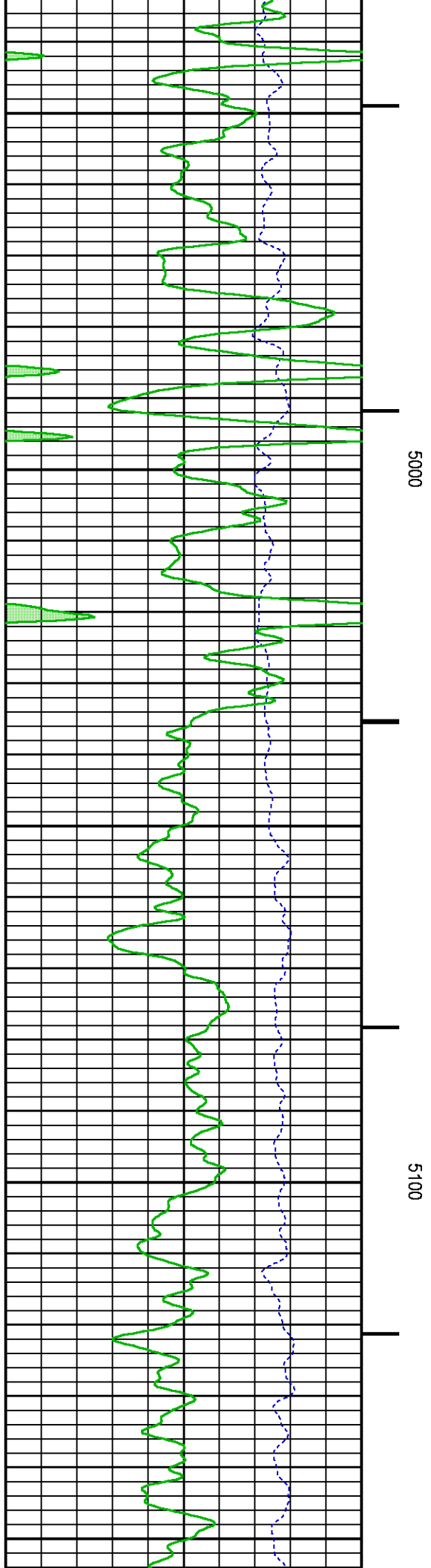
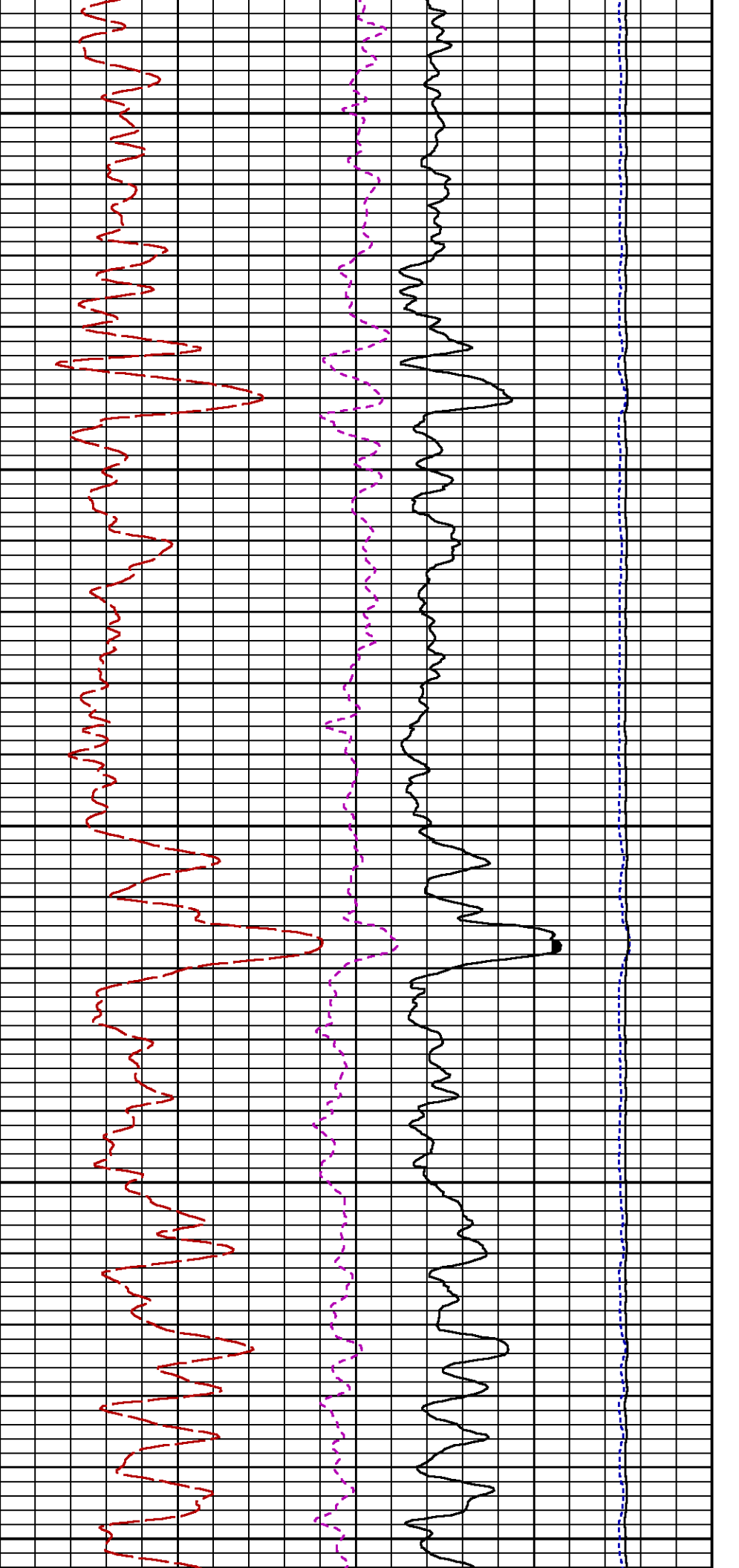
Data File 1 : F1 : cpu100:/dat1a/CH105967/13D1_RPM_MAIN.xtf
 Created On : Mar 1 09:48:53 2016
 Company : CAERUS OPERATING LLC
 Well : PUCKETT 13D-1
 Field : GRAND VALLEY
 File Interval : 4113.25 - 8661.25 Feet

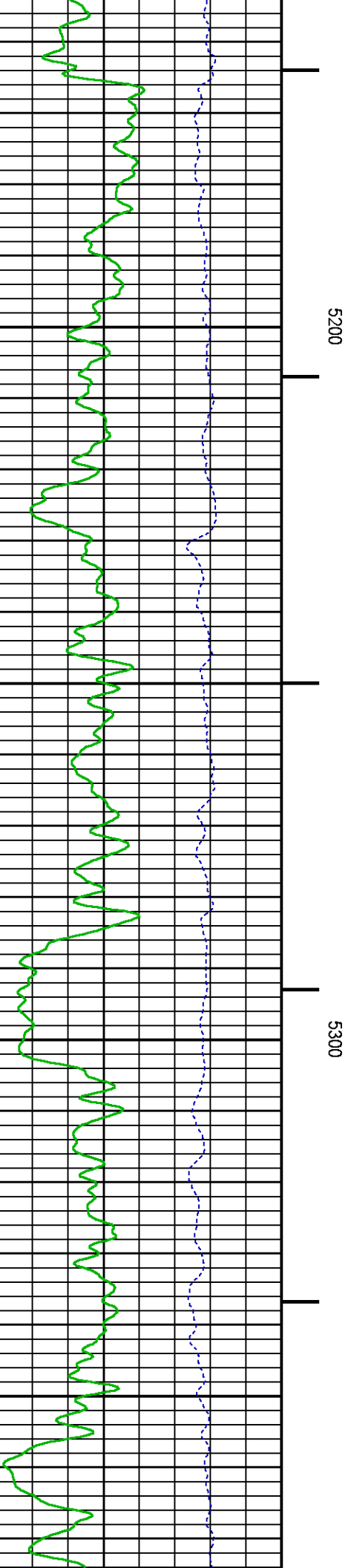
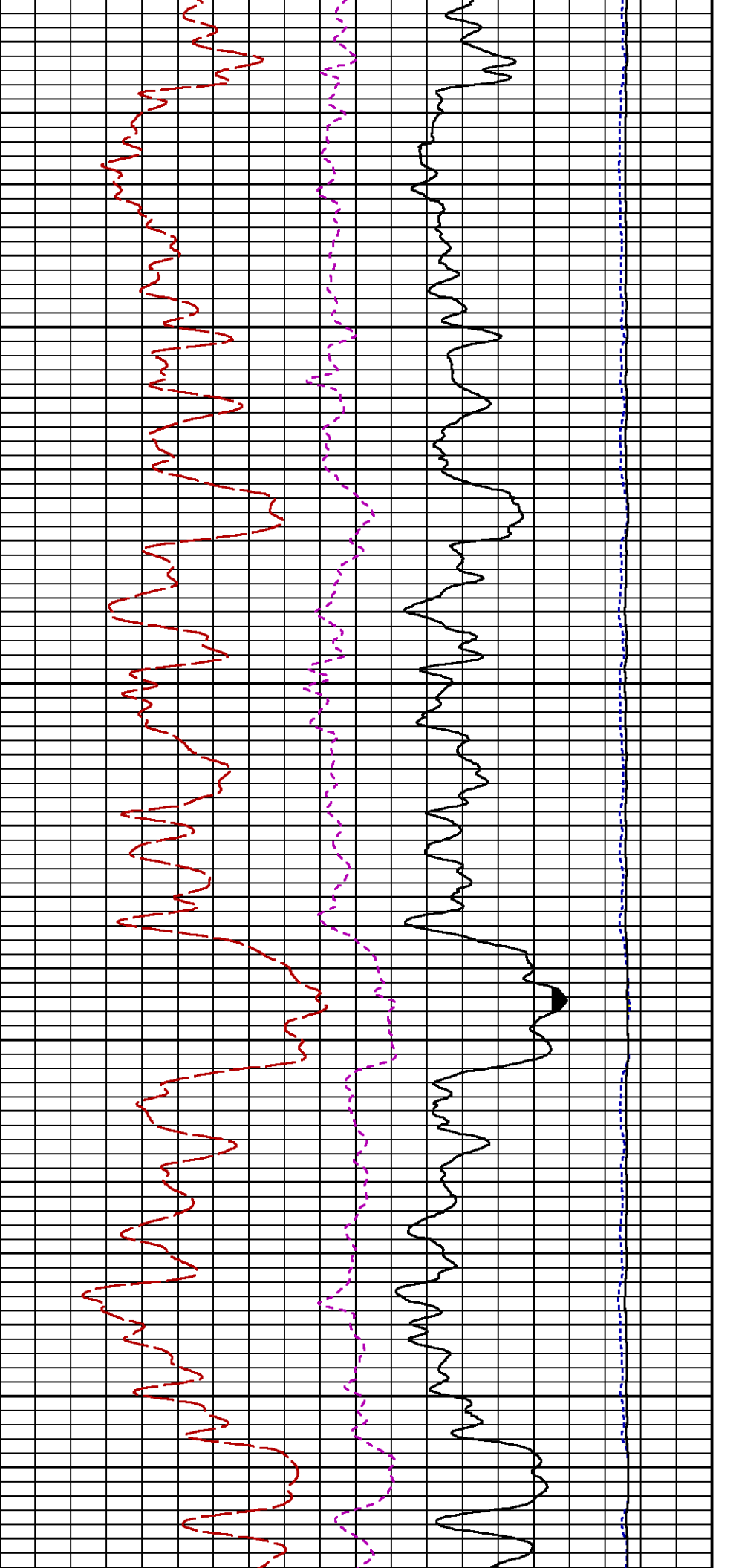


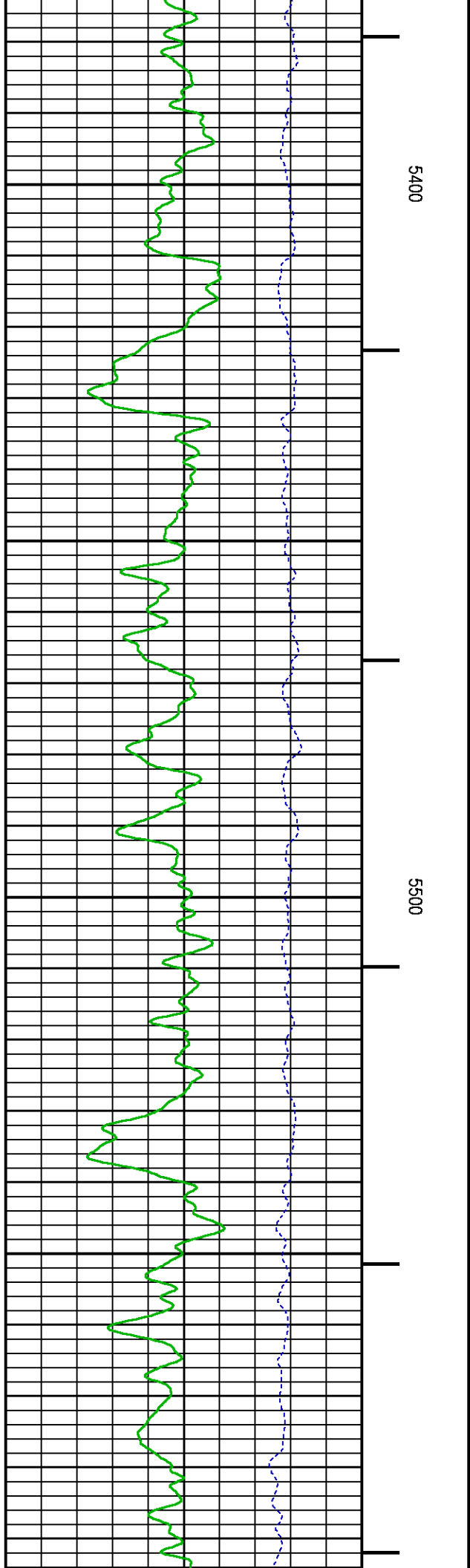
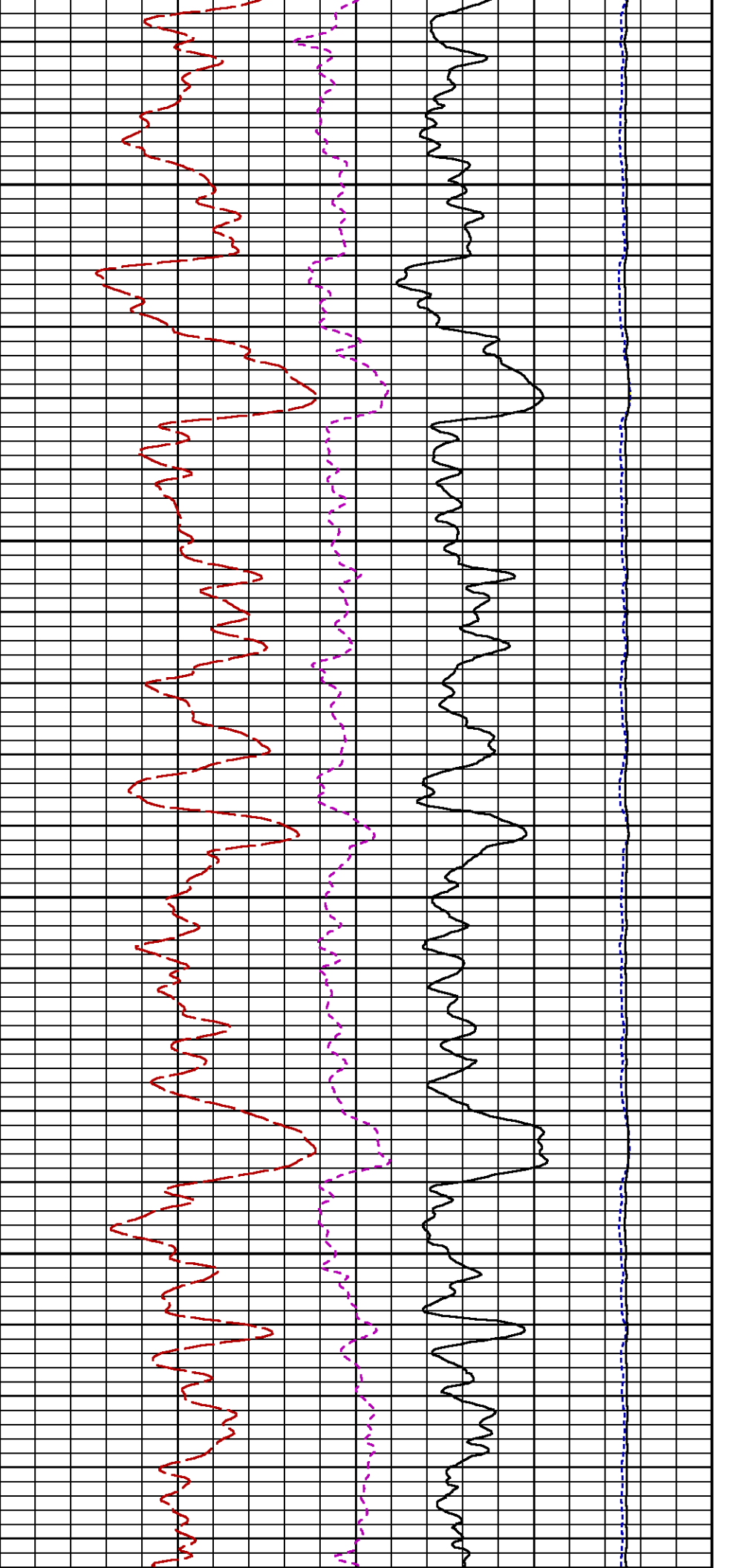


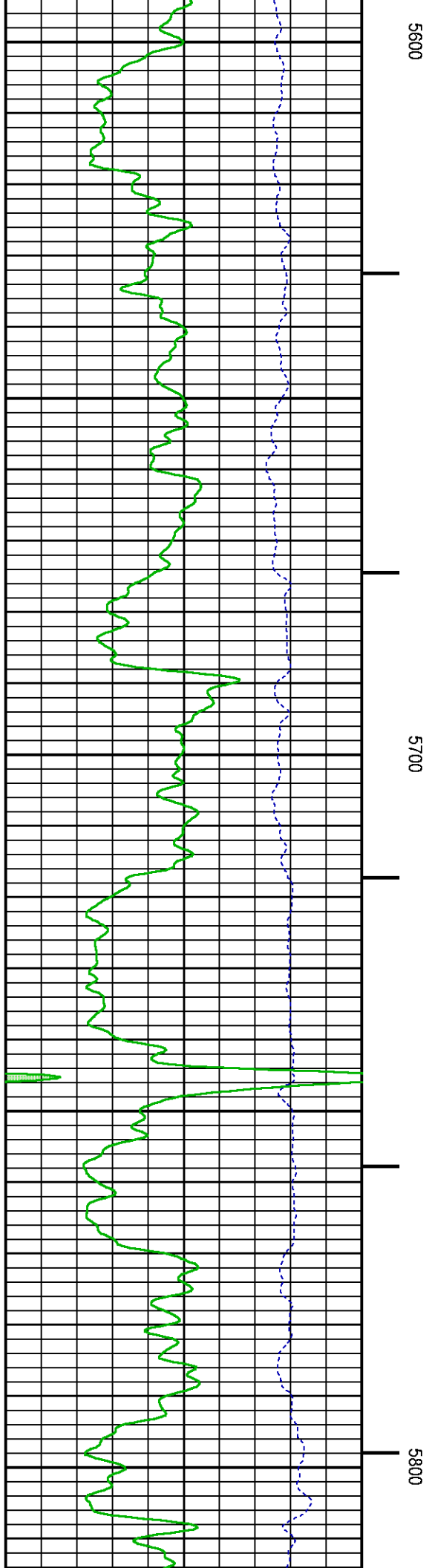
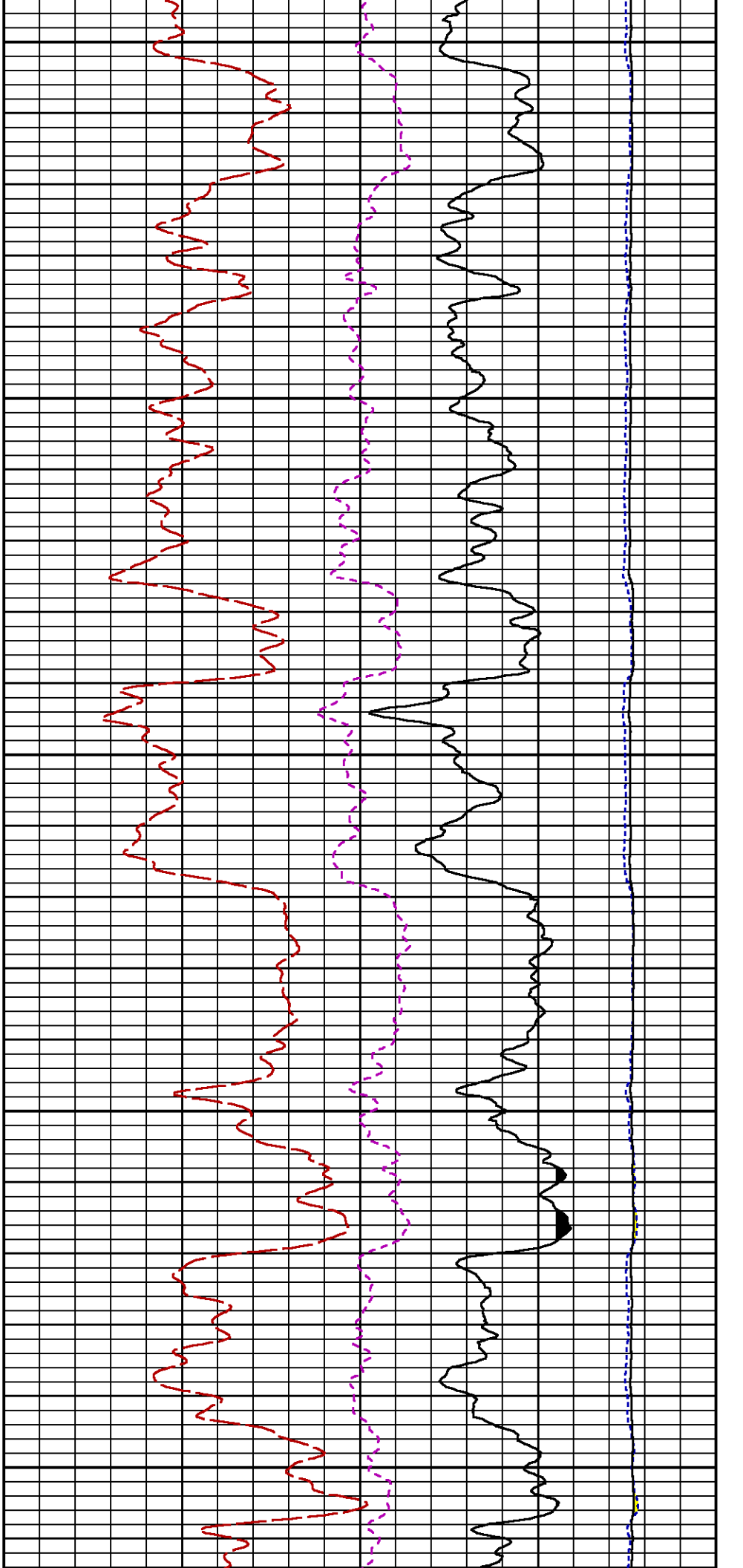


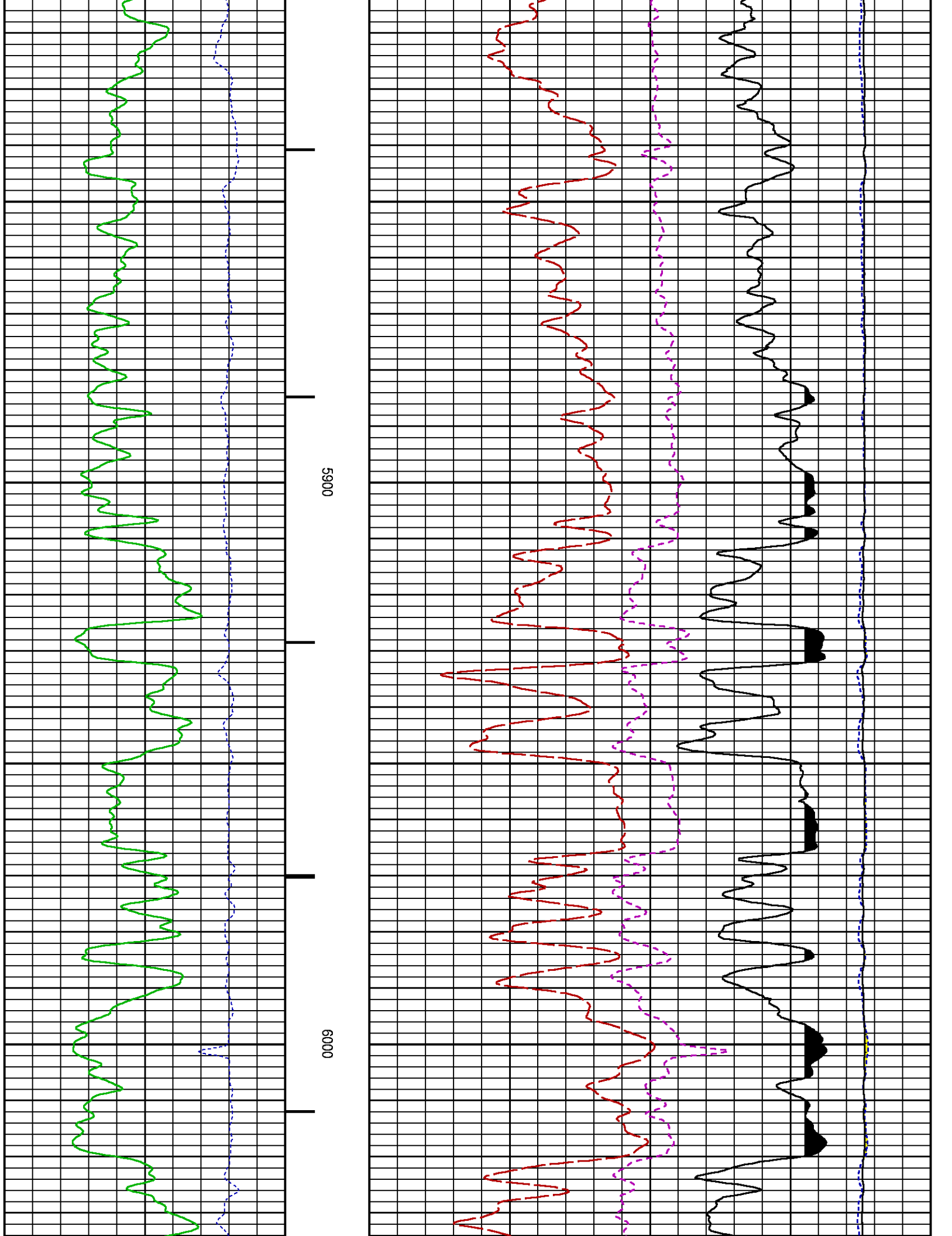


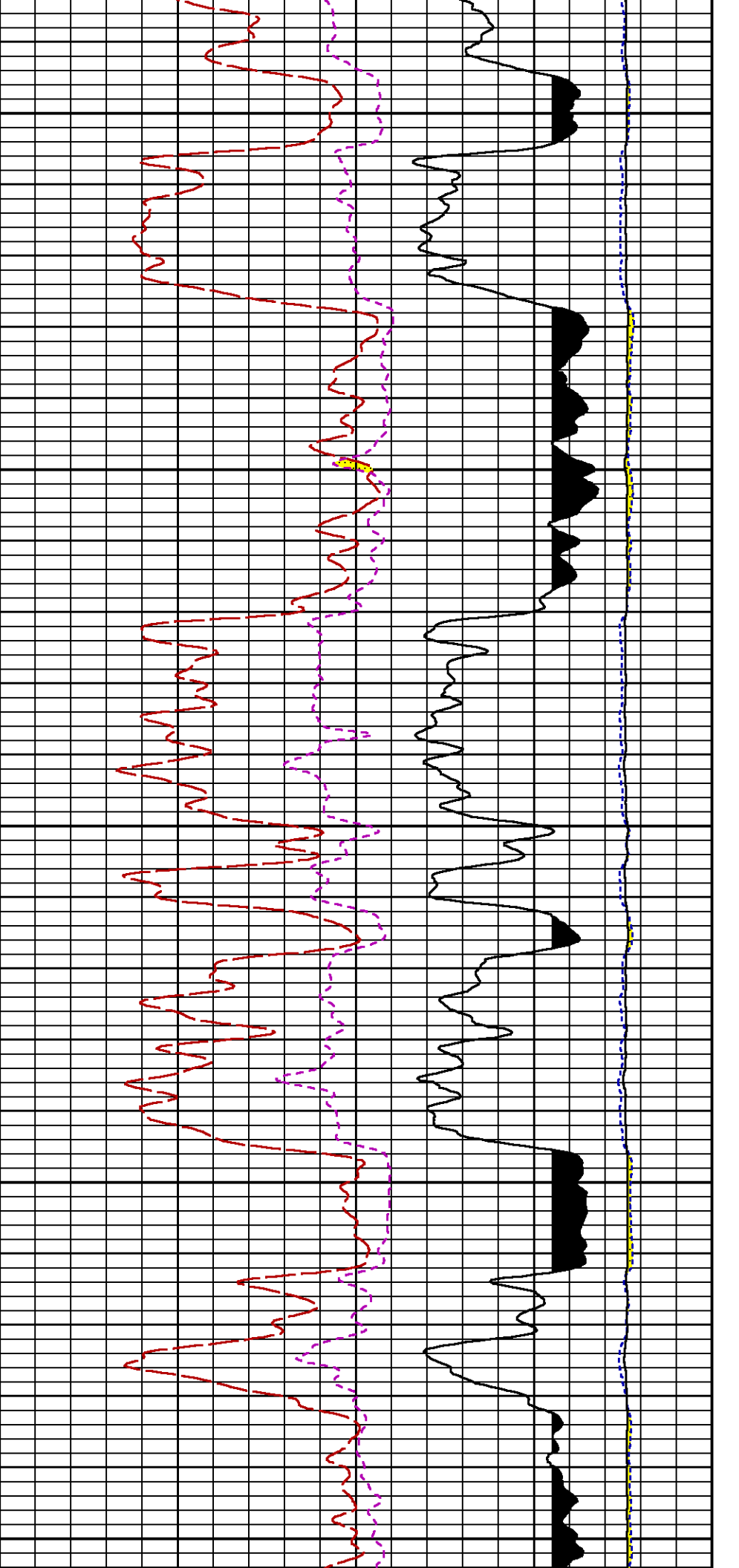






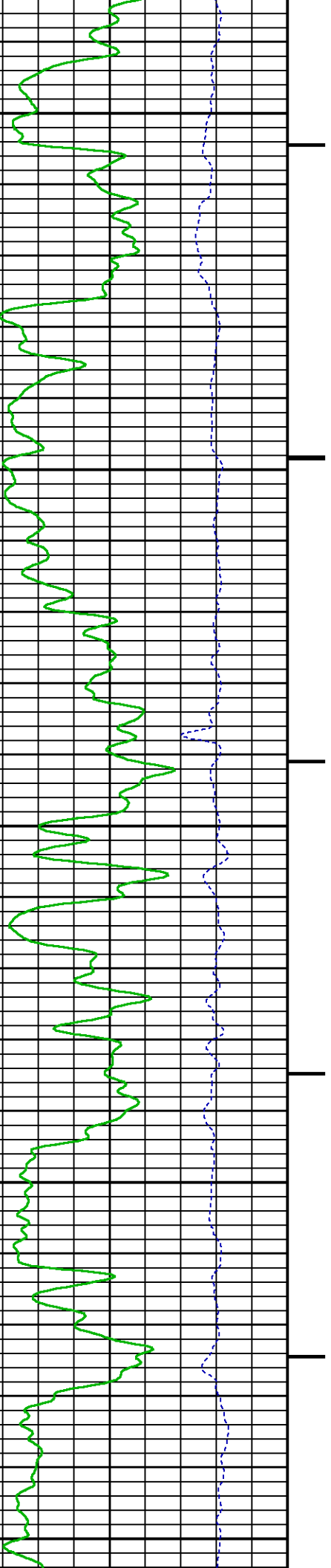


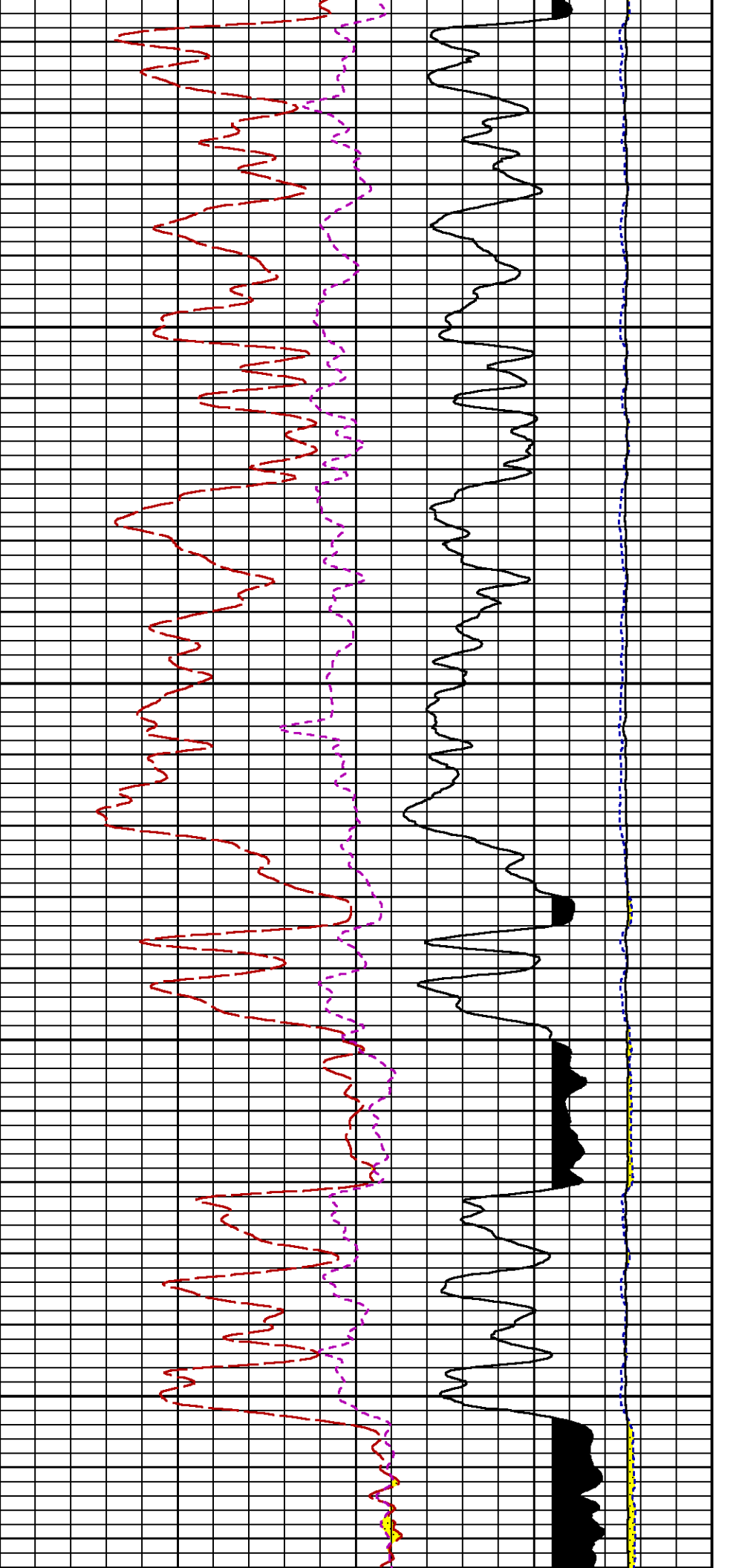




6100

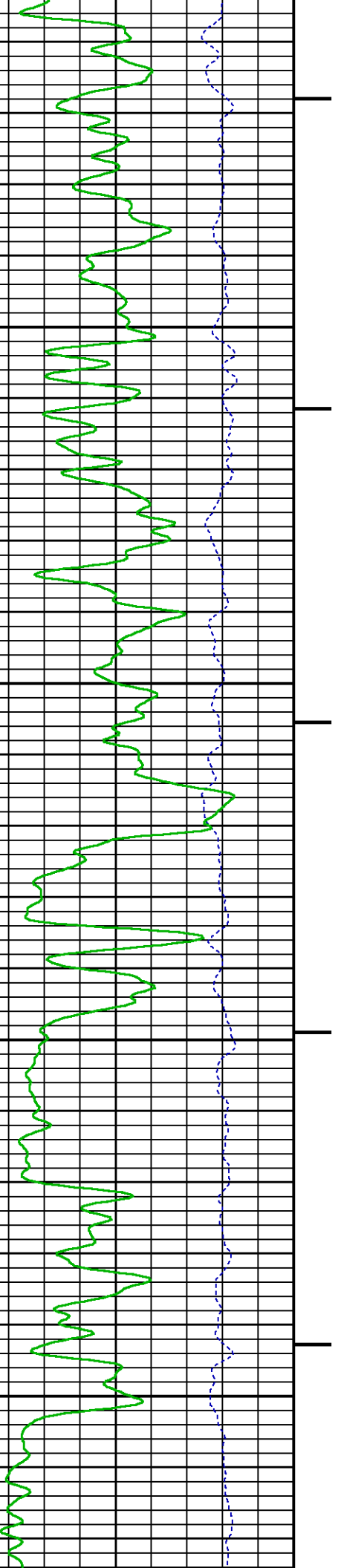
6200

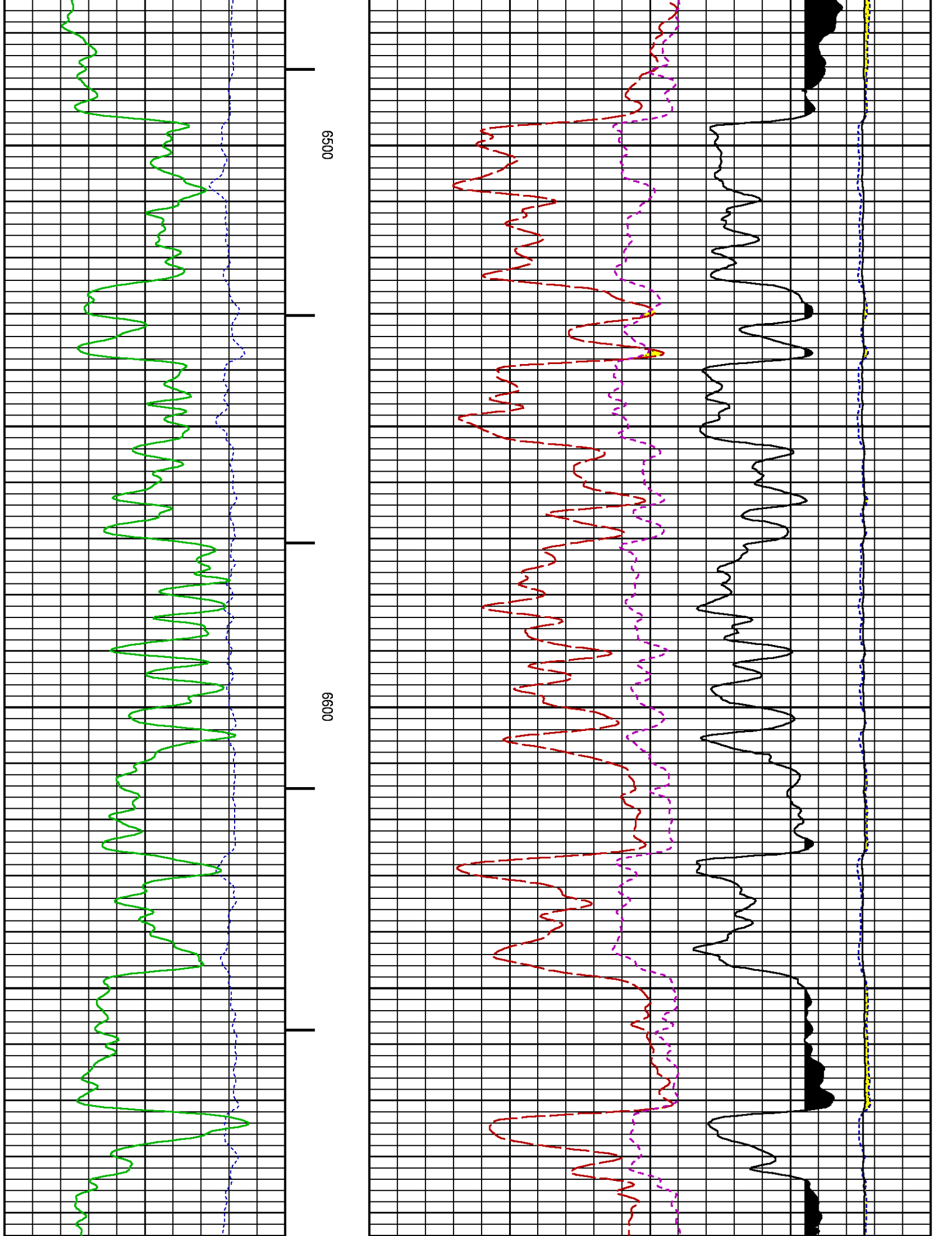


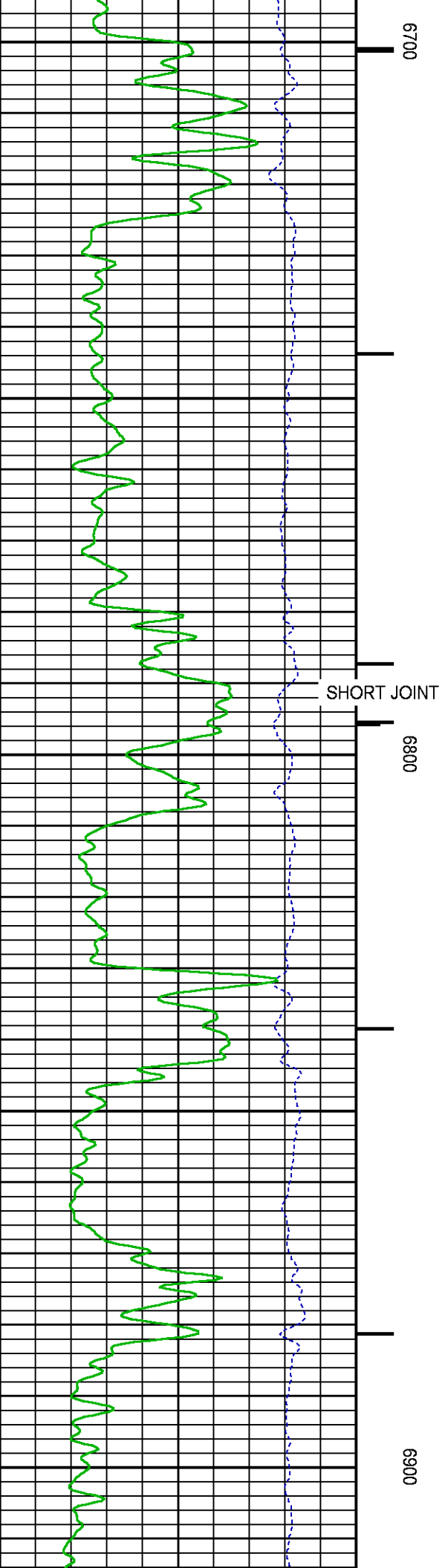
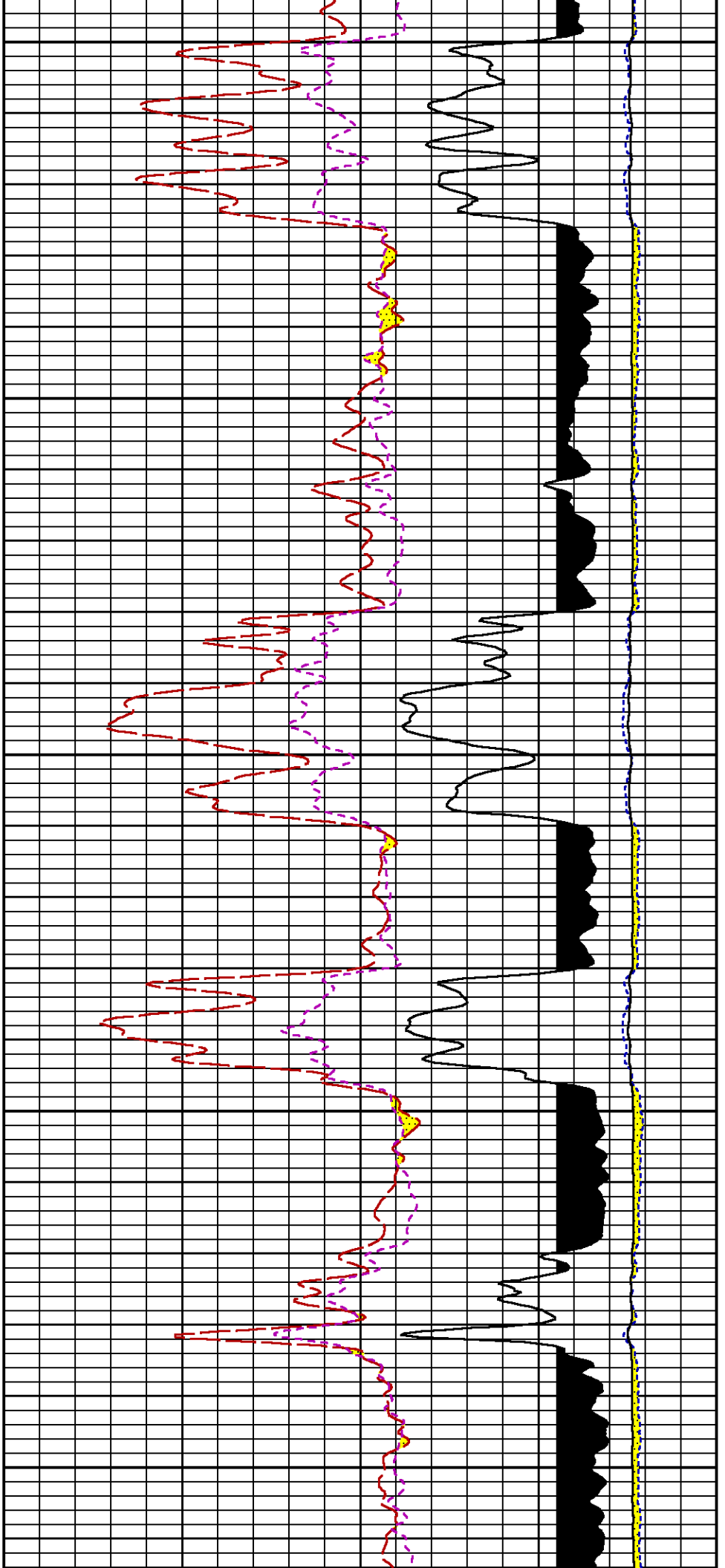


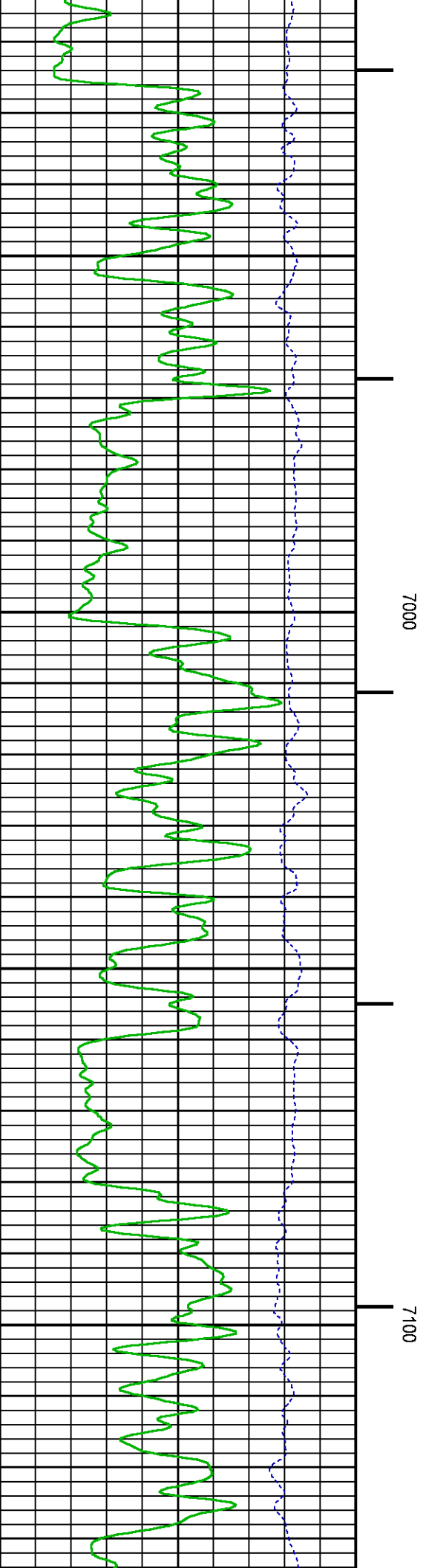
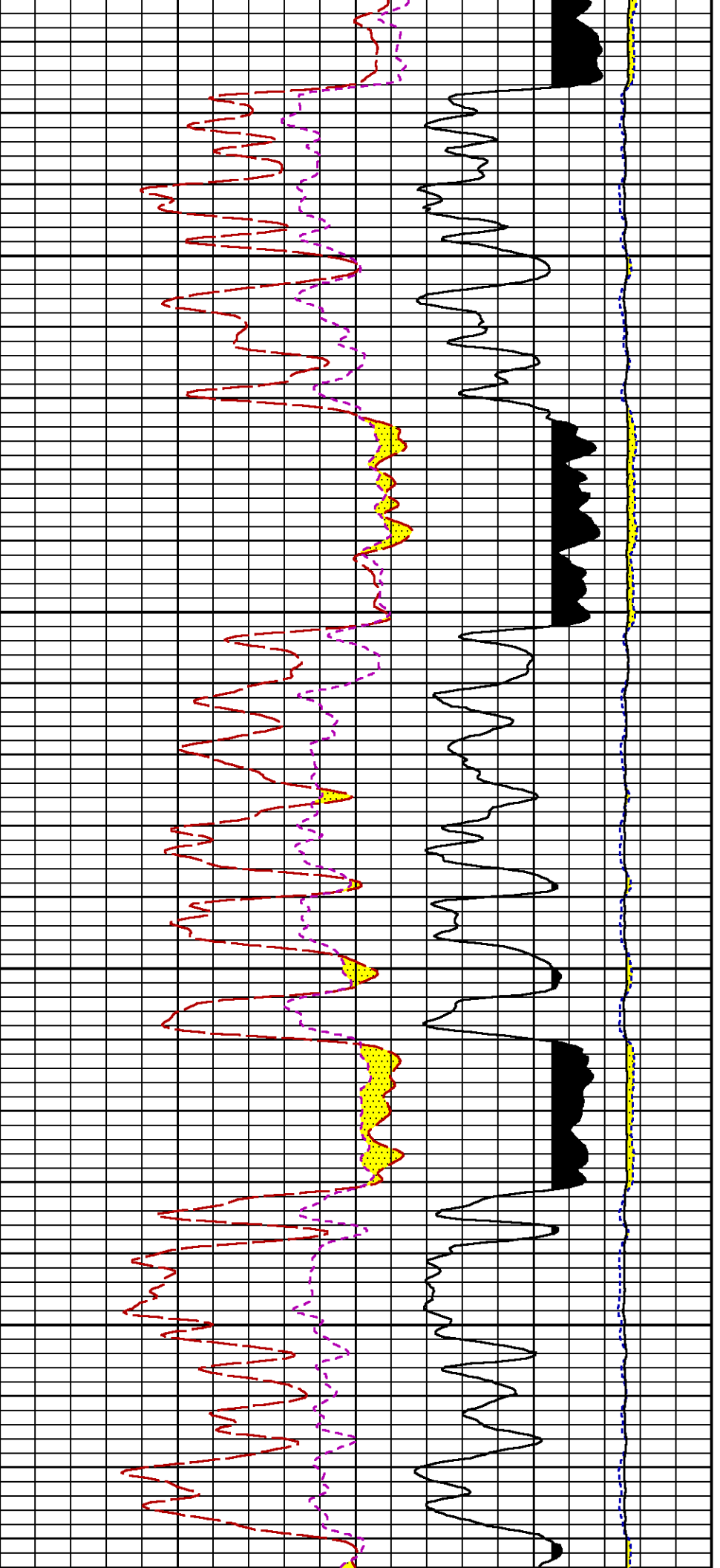
6300

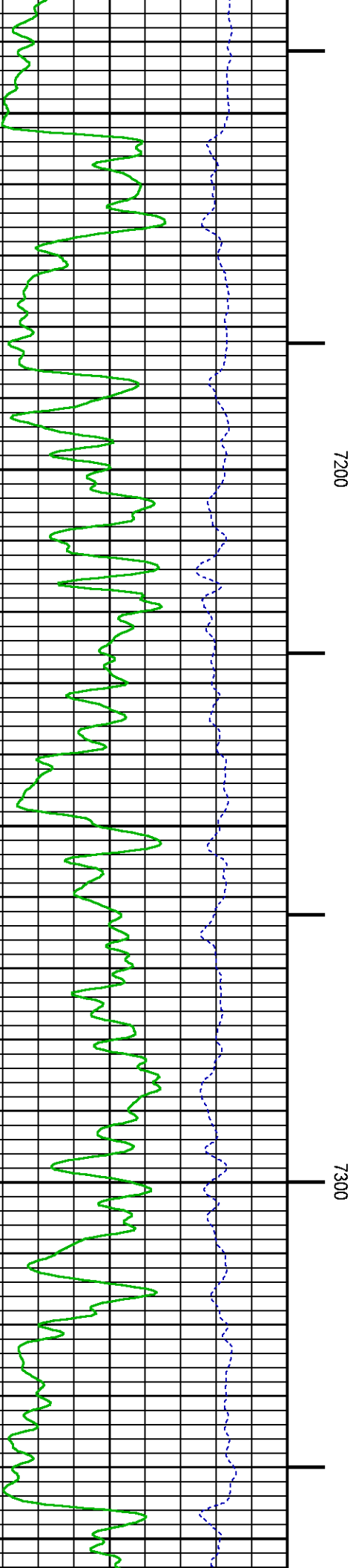
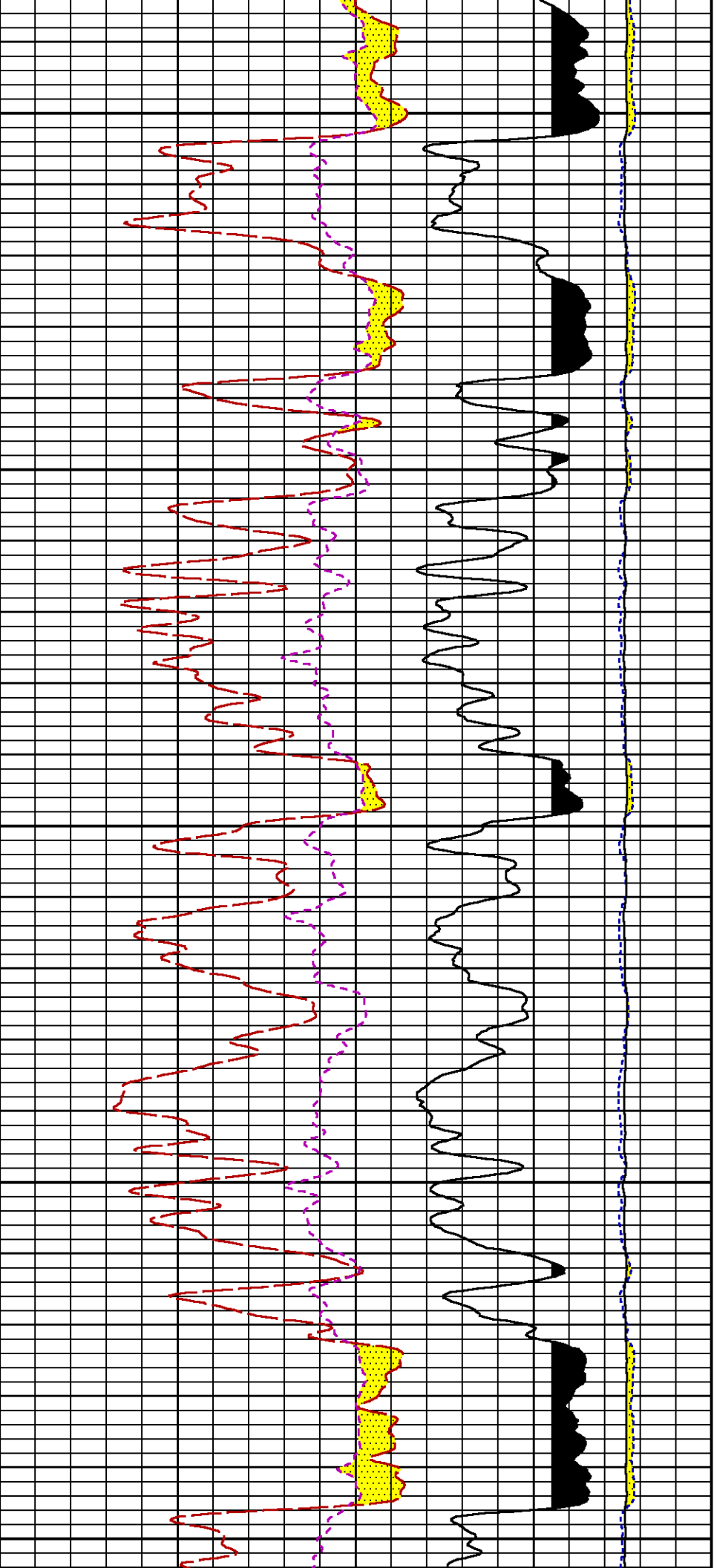
6400

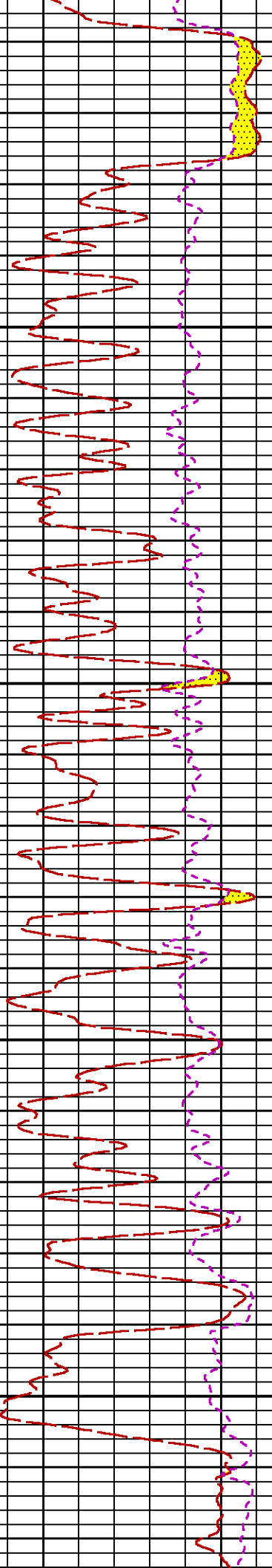
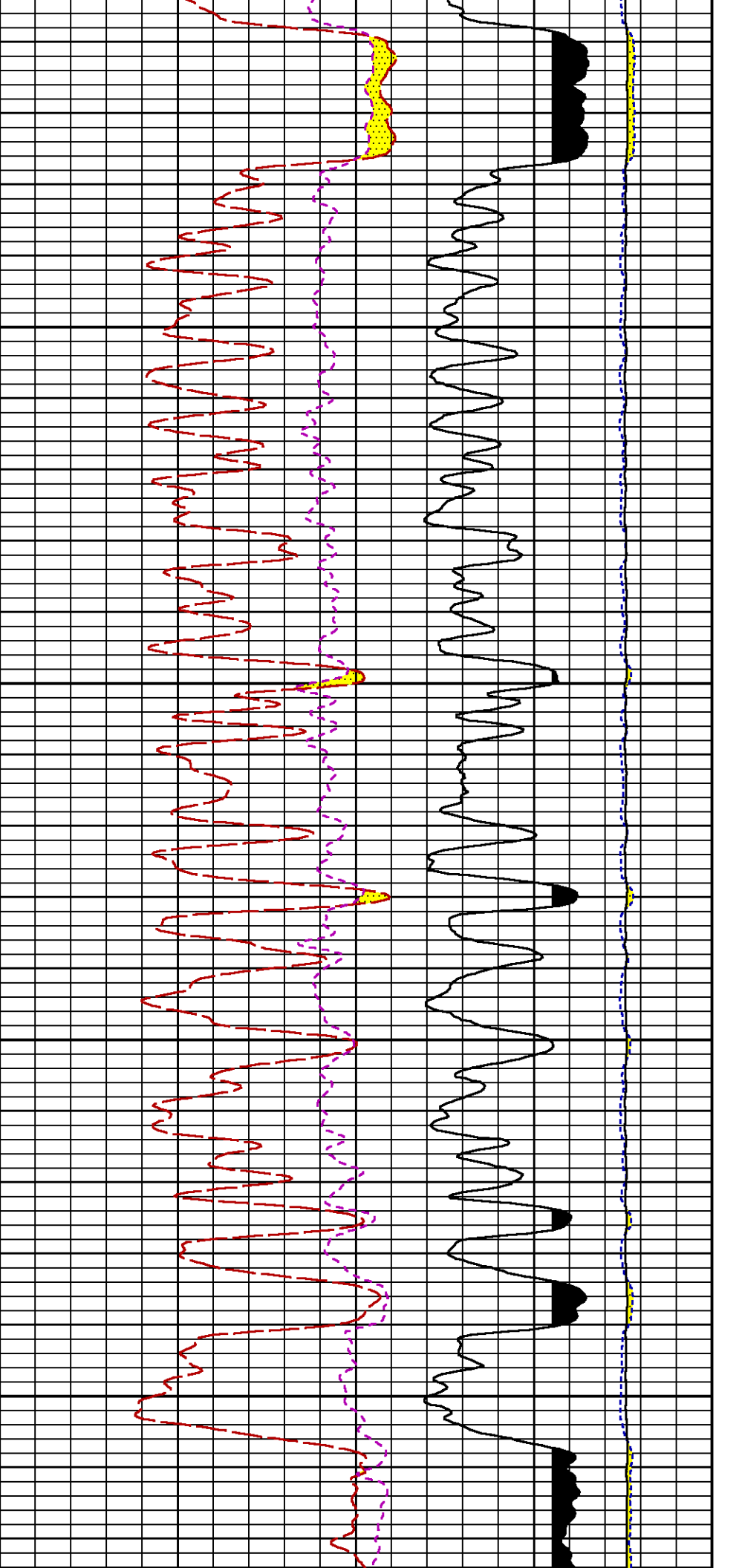






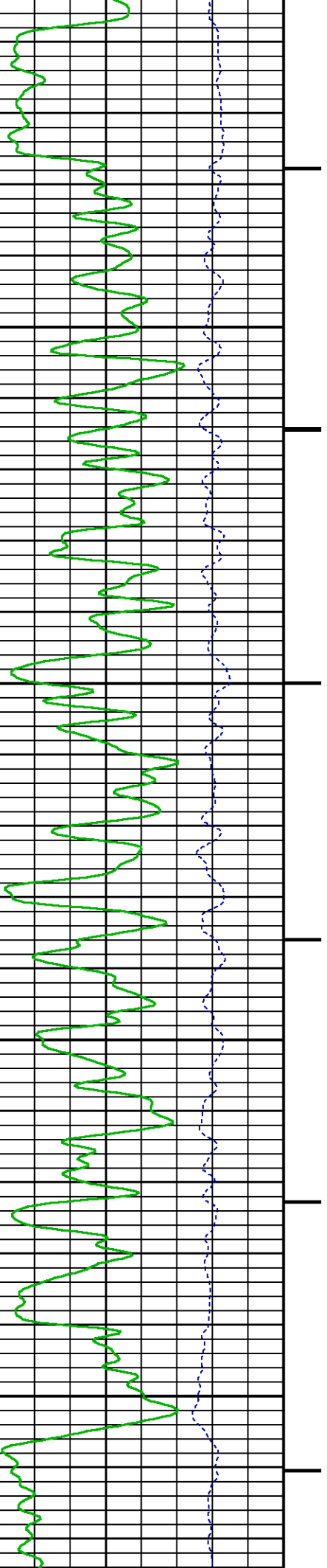


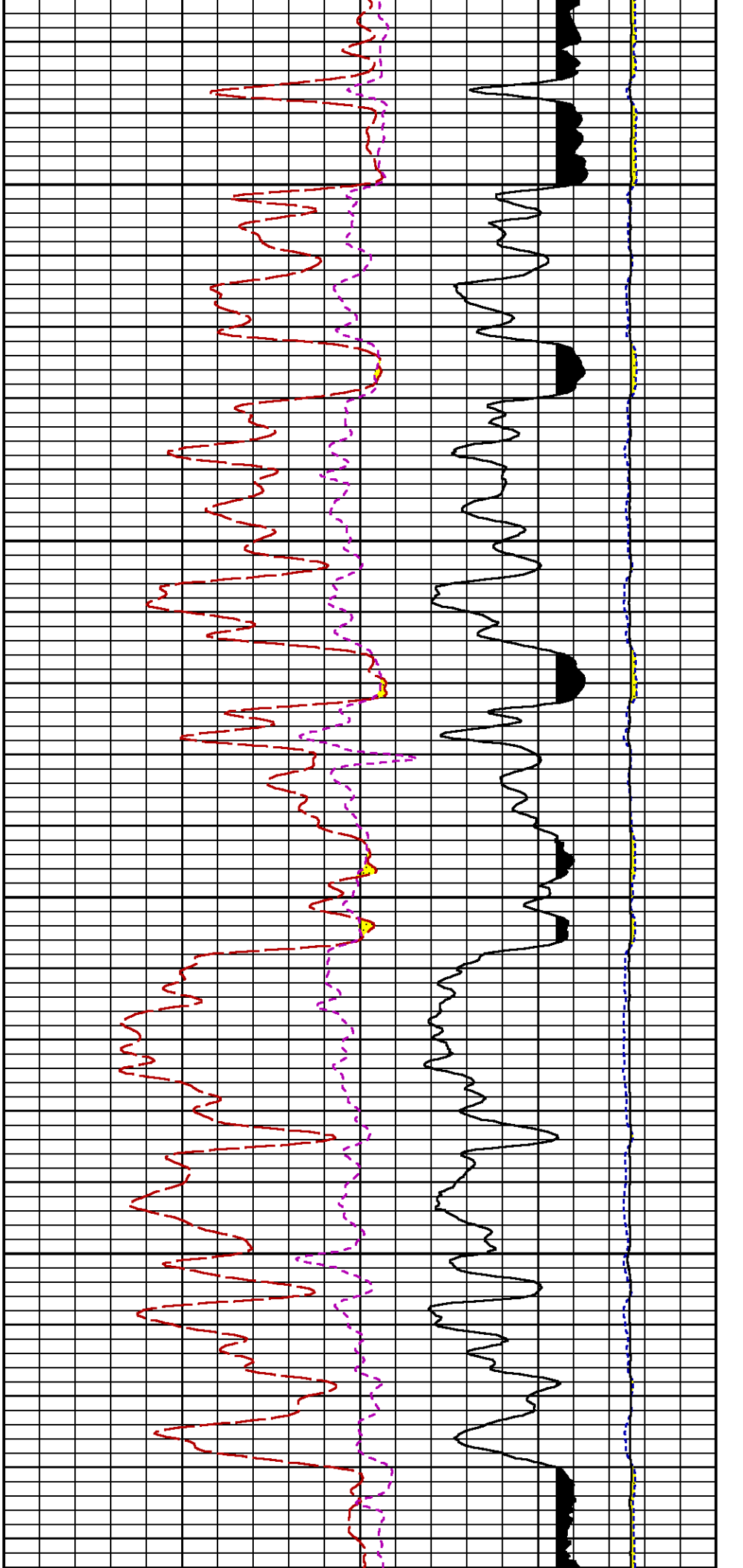




7400

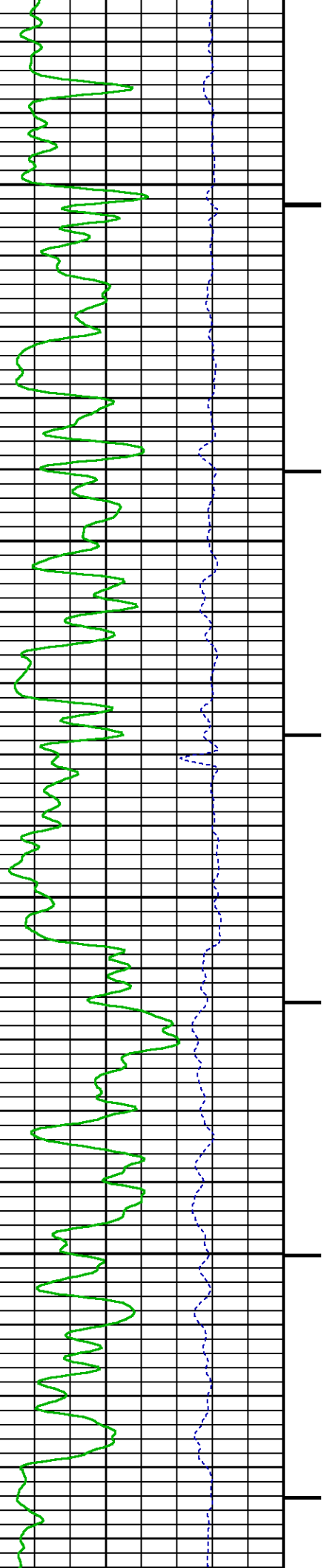
7500

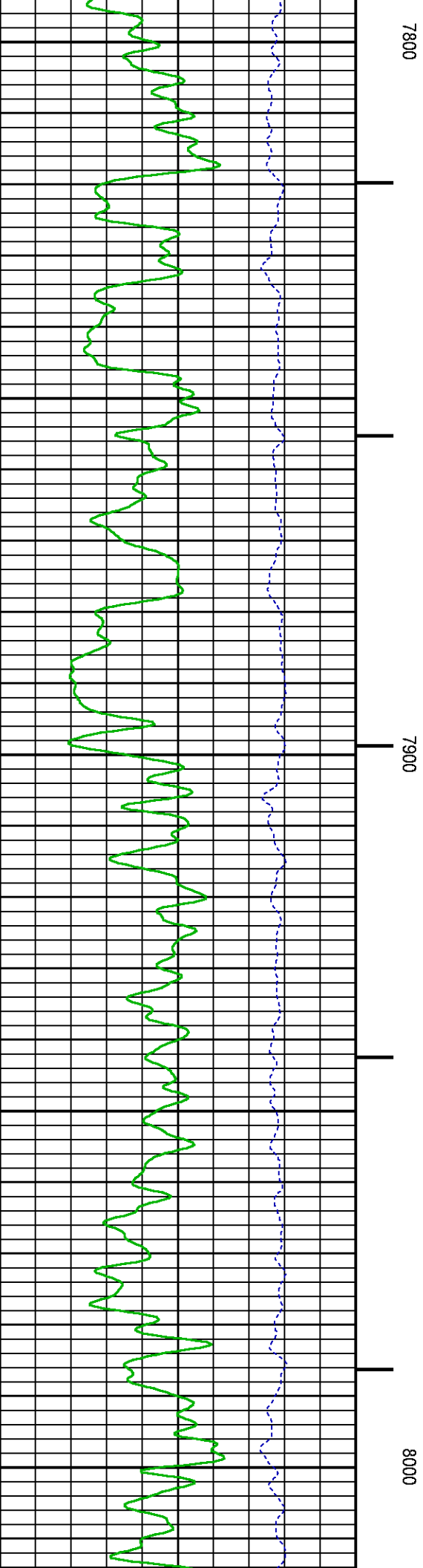
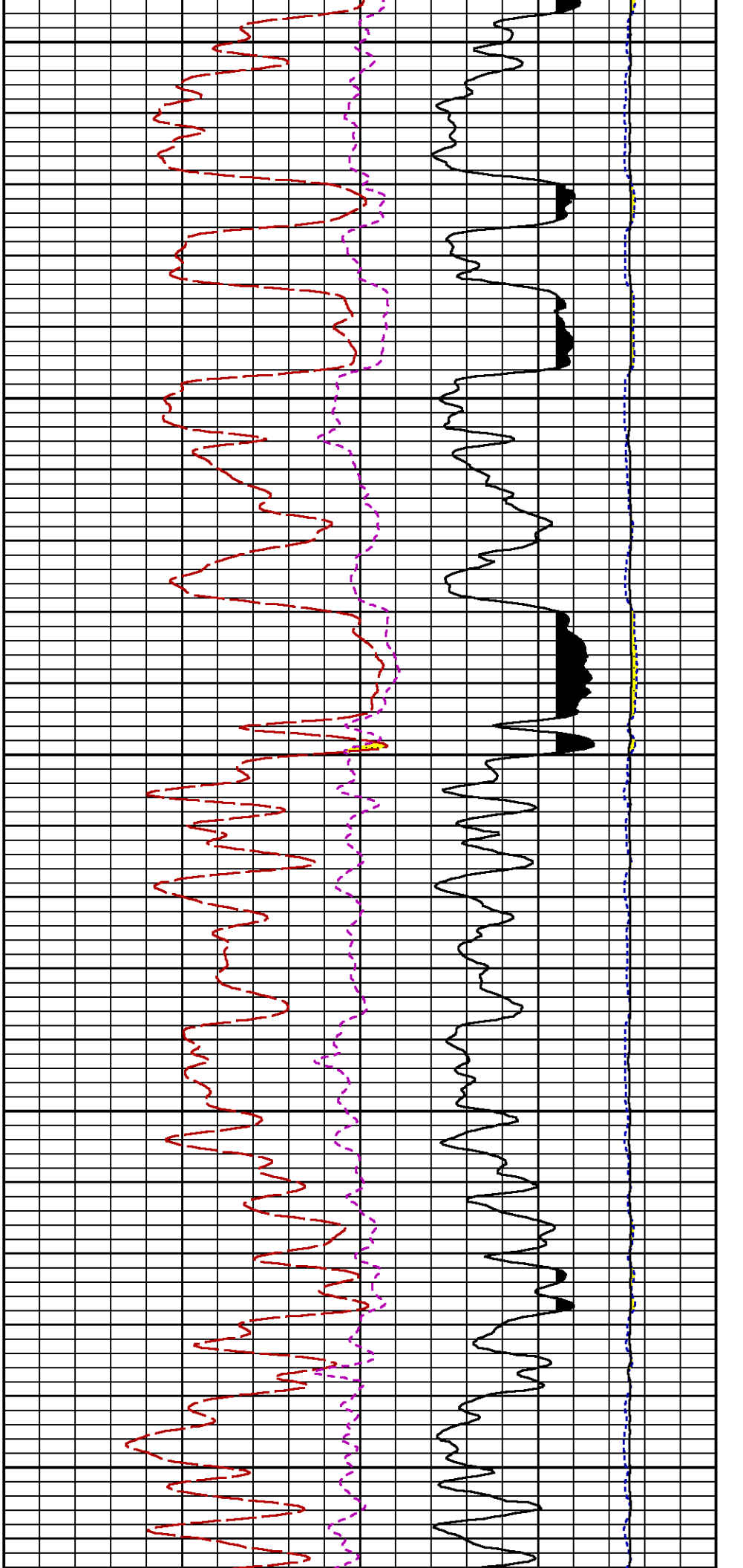


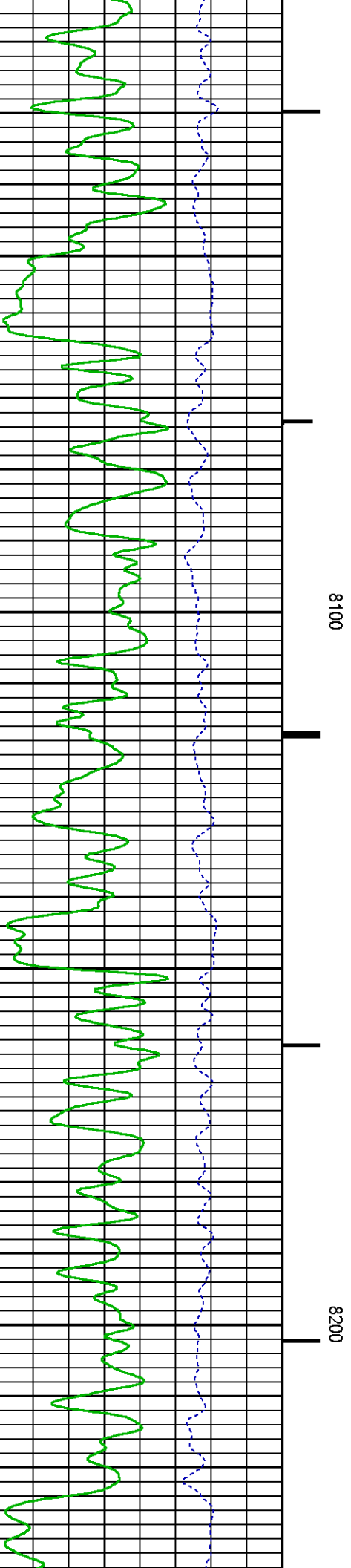
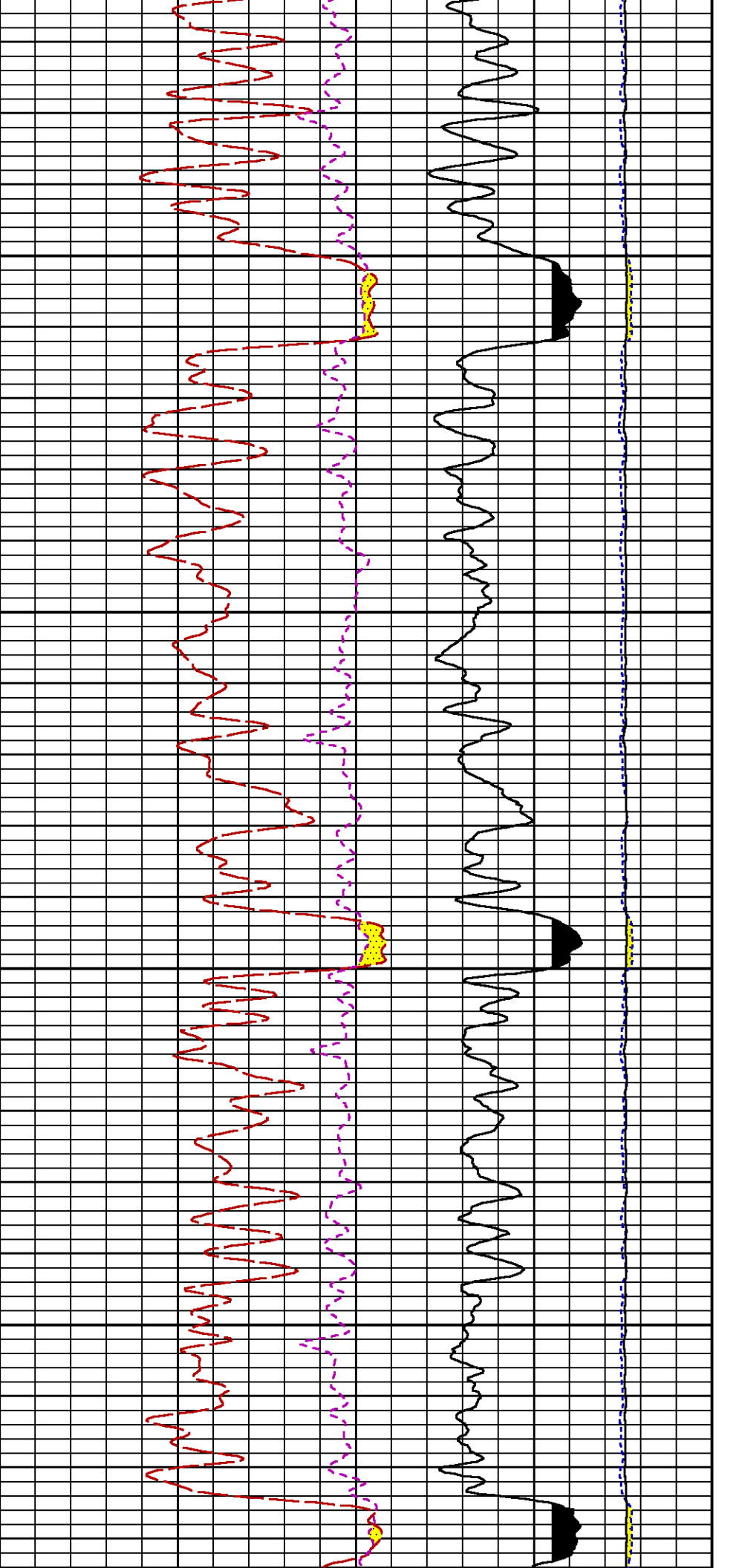


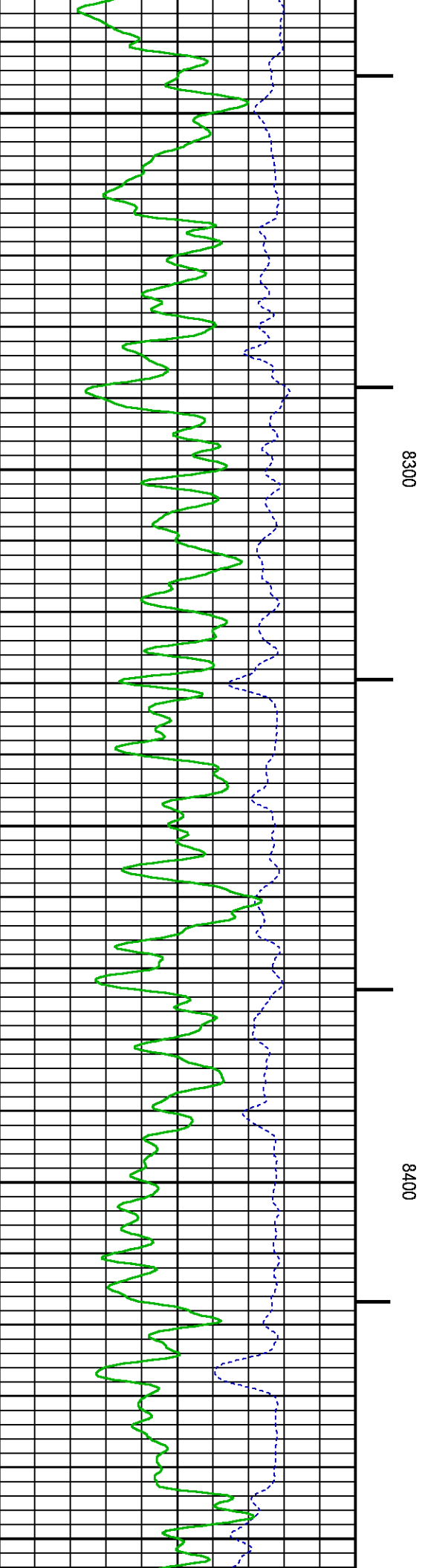
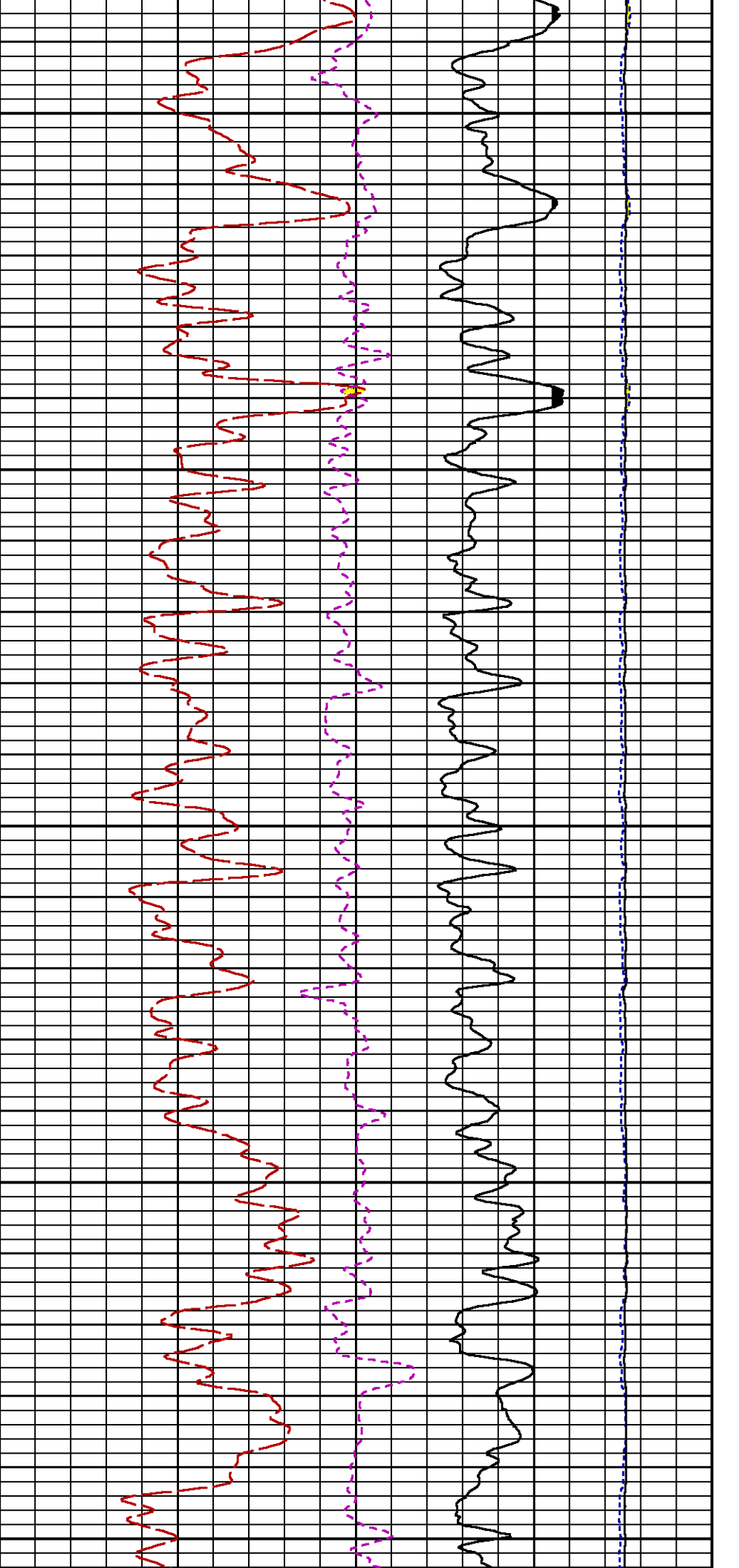
7600

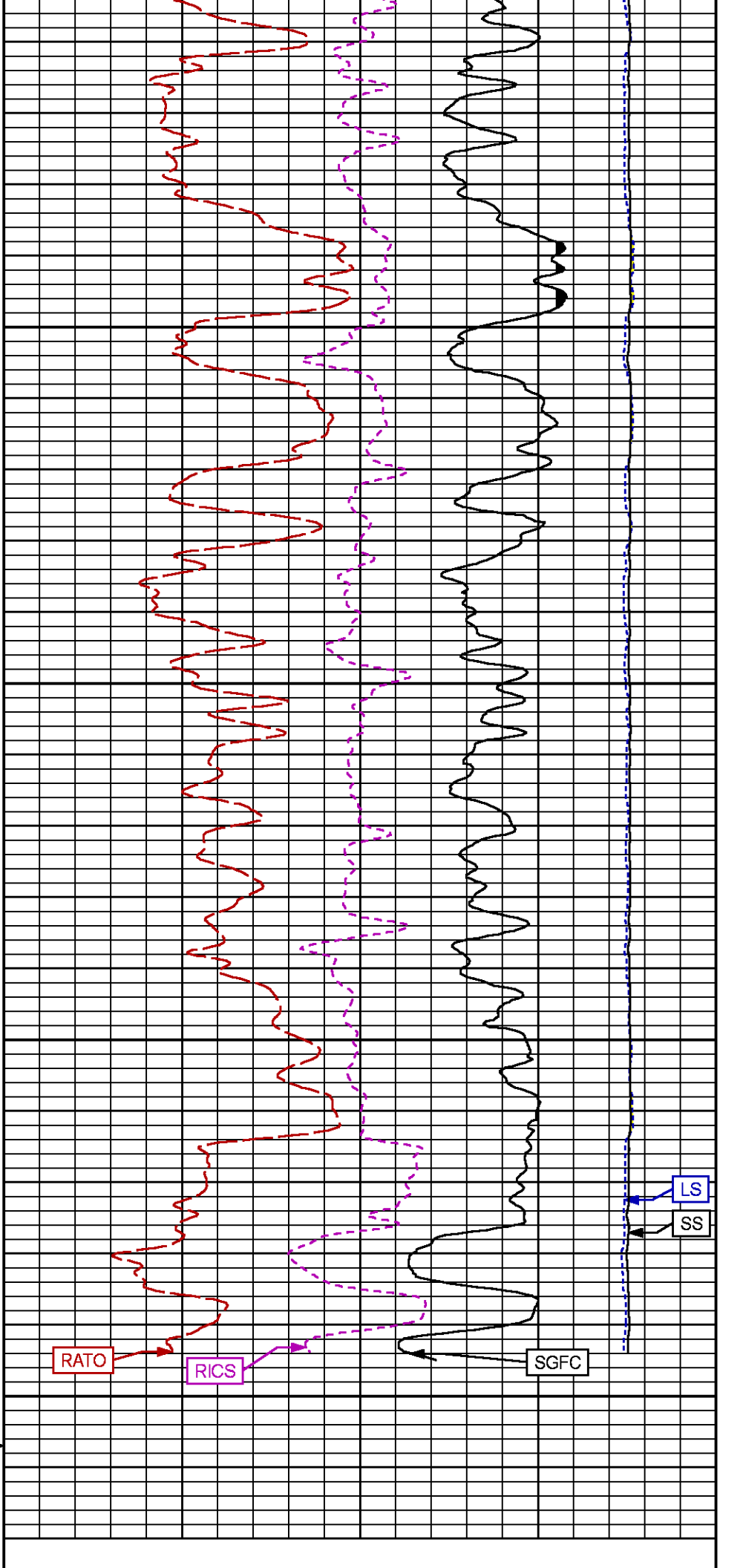
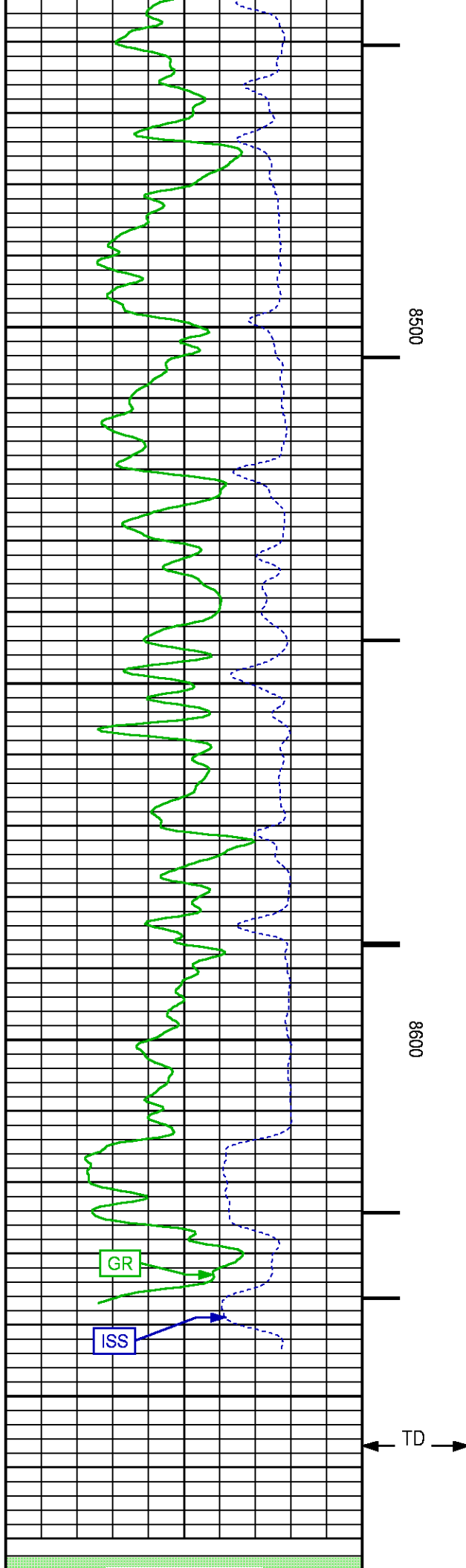
7700

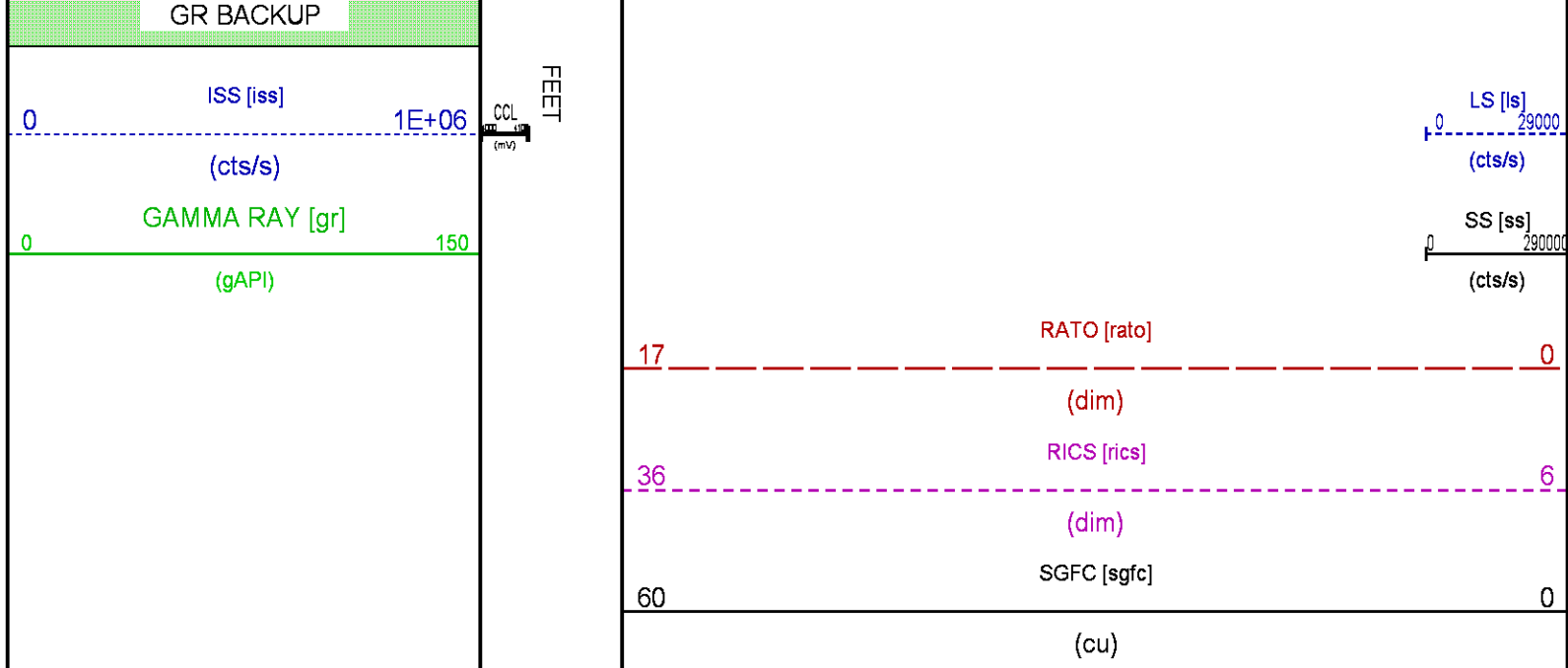












REPEAT SECTION PNC-3D MODE

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

Updates: 1 Patches: 9

Plotted: Tue Mar 1 13:09:45 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH105967/n354h01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 8445.000 ft BOTTOM DEPTH: 8674.559 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	8.75	in	" "
	CASING SIZE	4.50	in	" "
	MATRIX	SANDSTONE		" "
	CORRECTION BUFFER	11		" "

CURVE DESCRIPTION REPORT

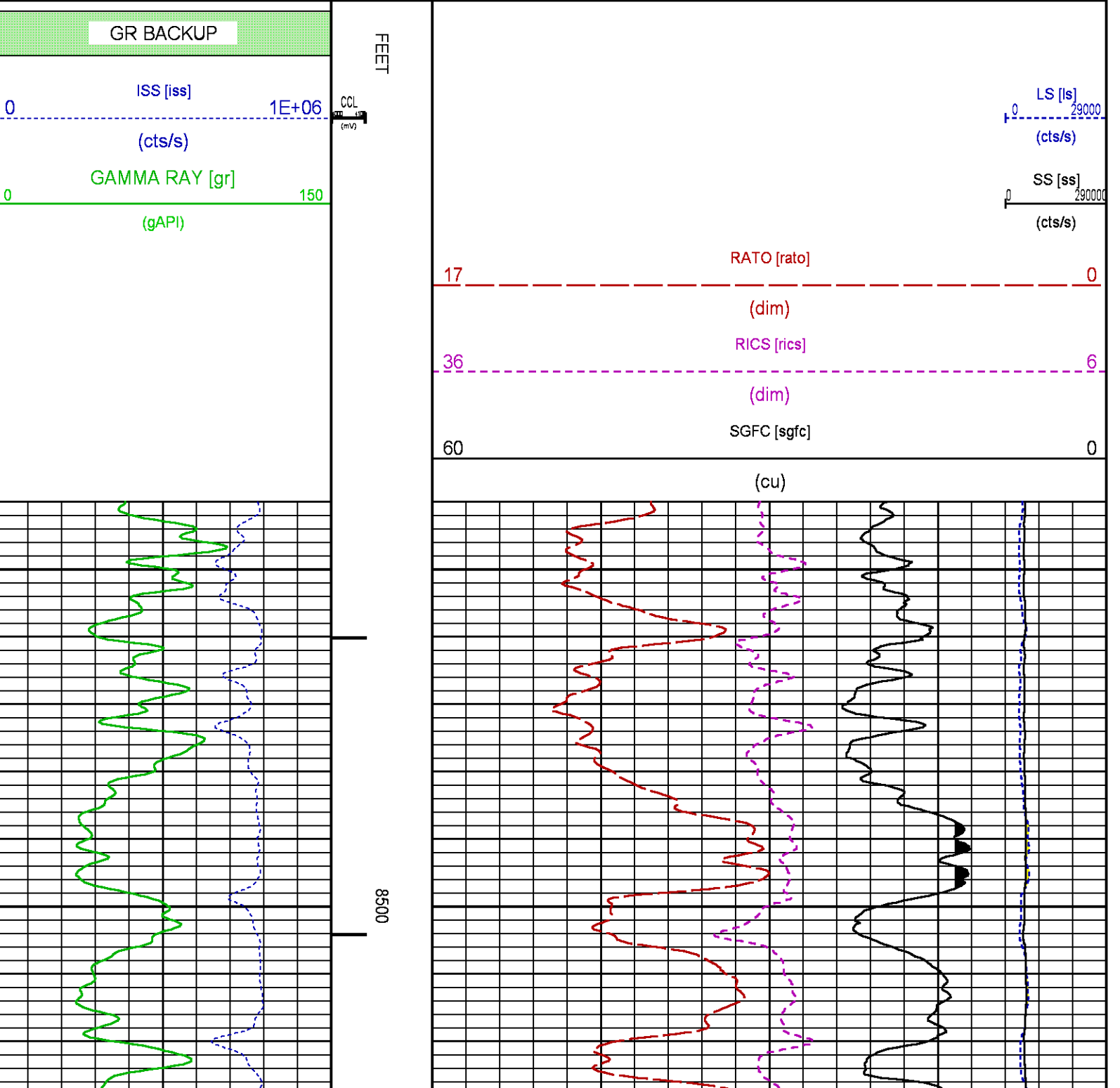
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Mar 1 09:31:57 2016	CASING COLLAR LOCATOR
F1:GR	Mar 1 09:31:57 2016	GAMMA RAY
F1:ISS	Mar 1 09:31:57 2016	INELASTIC SHORT SPACE COUNT RATE
F1:LS	Mar 1 09:31:57 2016	LONG SPACE COUNT RATE
F1:RATO	Mar 1 09:31:57 2016	SHORT/LONG SPACE COUNT RATE RATIO
F1:RICS	Mar 1 09:31:57 2016	SHORT SPACE INELASTIC TO CAPTURE COUNT RATE RATIO (ISS/CSS)
F1:SGFC	Mar 1 09:31:57 2016	CORRECTED FORMATION SIGMA

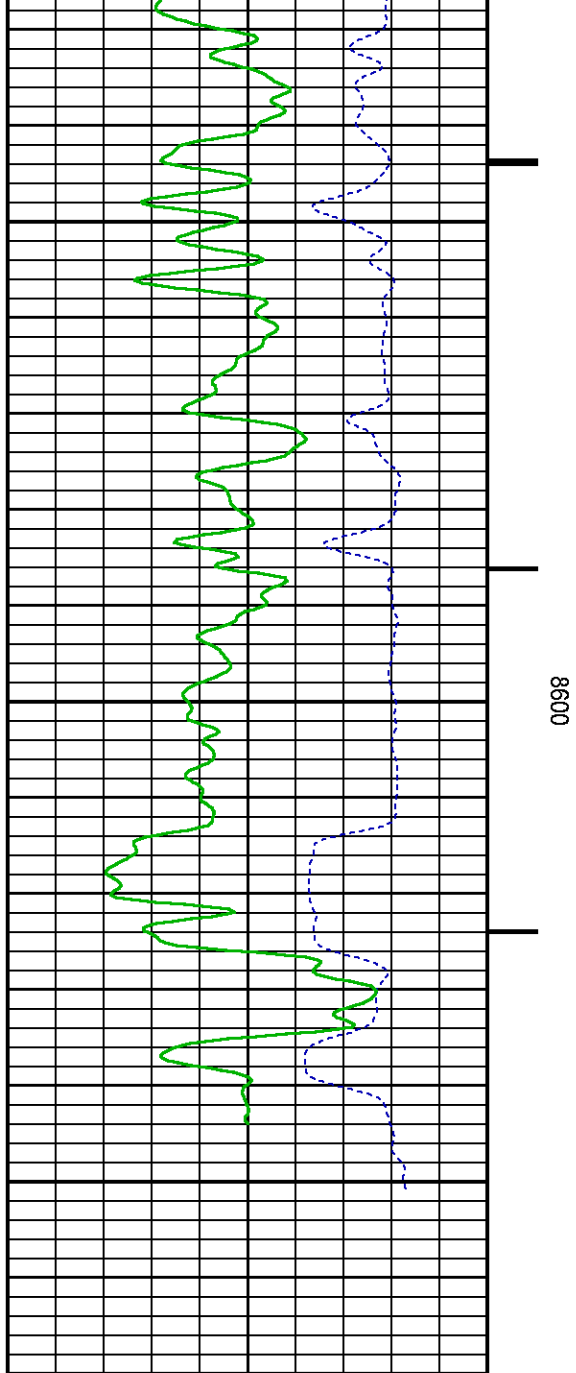
CURVE MEASURE POINT OFFSET

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 : cpu100:/dat1a/CH105967/13D1_RPM_REPEAT.fvpdf [5"/100' Scale]
Plot Interval : 8440 - 8670 Feet

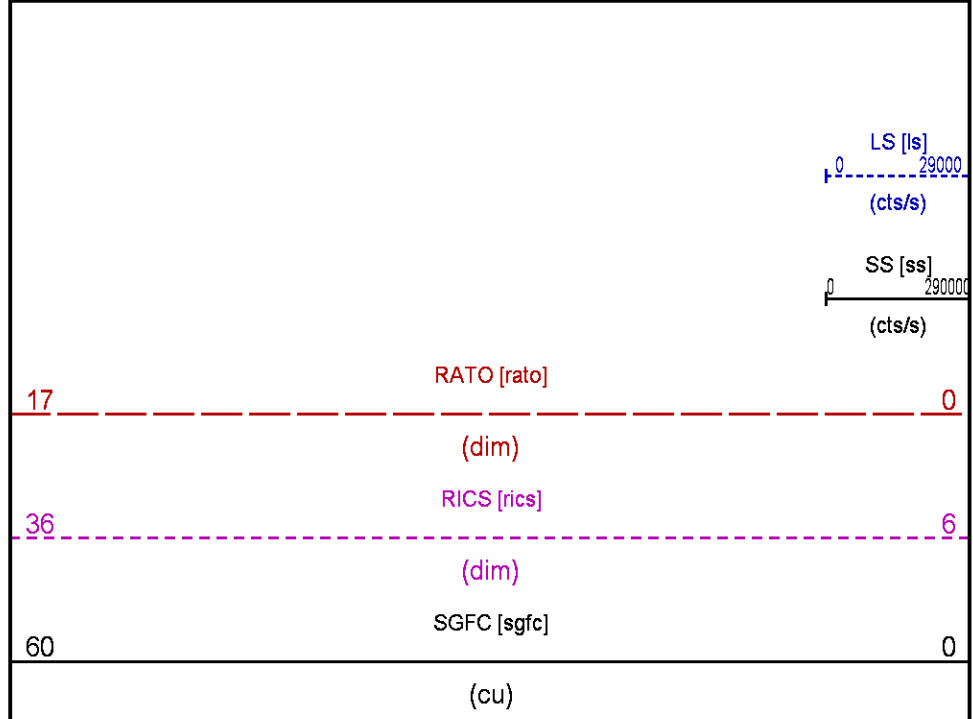
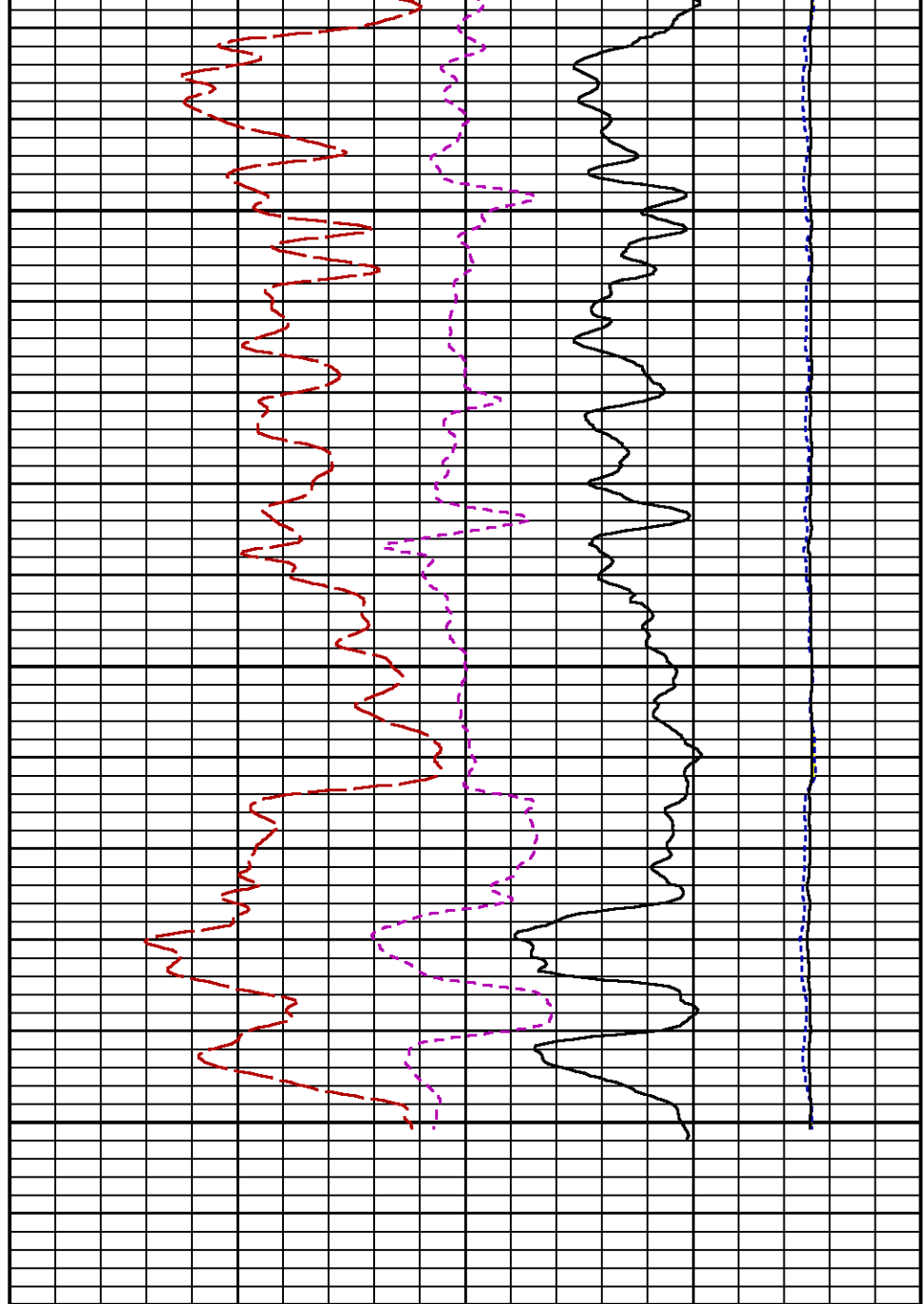
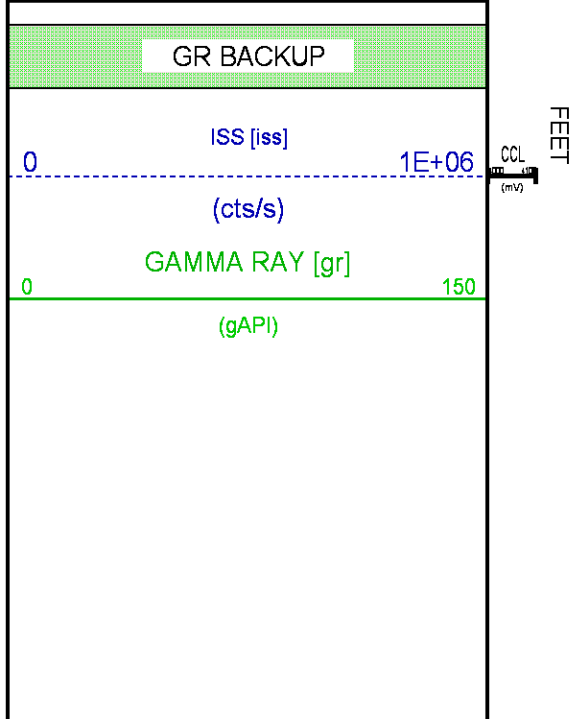
Data File 1 : F1 : cpu100:/dat1a/CH105967/13D1_RPM_REPEAT.xtf
Created On : Mar 1 09:31:57 2016
Company : CAERUS OPERATING LLC
Well : PUCKETT 13D-1
Field : GRAND VALLEY
File Interval : 8412.5 - 8666.75 Feet
OCT : n354h





8600

FEET



CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH105967/n354h.tp1

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 2812LA 10374382

DATE/TIME PERFORMED: Thu May 2 16:05:51 2013

UNIT #: 3880TA HL6670

CALB JIG #: 4702NK VBA905

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	44.40	271.13	226.7	0.926	41.12	251.12	210

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 2812LA 10374382

DATE/TIME PERFORMED: Thu May 2 16:08:36 2013

UNIT #: 3880TA HL6670

VERI JIG #: 4702NK VBA905

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	45.24	273.71	0.926	41.91	253.51	211.61
						200.00 220.00

RPM_PNC_3D PRIMARY CALIBRATION SUMMARY

TOOL: 8283PA 10585555

DATE/TIME PERFORMED: Fri Feb 5 08:07:53 2016

UNIT: 3880TA HL6670

CALIBRATOR: 2437XB 112674

SOURCE: 8281AA 11724361

HOURS: 8281AA 112

	ISS	Mtr Vits (V)	SS Gain	LS Gain	XLS Gain	EA Temp (degF)	Sync Delay (usec)	RCAL
Raw Data	798993	122	2237	2204	2234	99	8.0	0.9816
Interpolated	1300000	146	2213	2188	2228			

	ISS	BKS	BKL	BKX	SGA1	SDA1	SGA2	SDA2
Raw Data	798993	6538	1028	140	26.21	0.14	24.32	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	798993	172892	26613	89842	31919	8334	54311	13363
Fit Quality %		1.280	1.281	1.181	1.159	1.270	1.030	1.309

	ISS	RBOR	RIN ISS/ILS	RIN13 ISS/IXS	RICS ISS/CSS	RATO SS/LS	RTWO SS2/LS	RONE CSS/CLS
Raw Data	798993	1.43	4.62	30.04	14.71	10.79	3.83	4.06
		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 %		0.029	0.123	0.144	0.166	0.079	0.095	0.141
Reduced	1418643	1.43	4.61	29.99	14.70	10.79	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 166341

DATE/TIME PERFORMED: Fri Feb 12 08:01:19 2016

T(0)

T(1)

T(2)

T(3)

Corr Coeff for Temp

-1.828341E+01

9.988427E-02

8.122243E-07

-3.138442E-11

INSTRUMENT CONFIGURATION

Source File: /dat1a/CH105967/RPM-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'
Weight : 20 lbs
Series : 8248ED
Mnemonic : PCM
Measure Point: 1.00': CCL MP

SONDEX GAMMA RAY

Diameter : 1.69"
Length : 2.17'
Weight : 10 lbs
Series : 2812LA

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'

33.24'

CCL MP 25.19'

GR MP 22.64'

XLS DETECTOR 13.58'

LS DETECTOR 13.16'

SS DETECTOR 12.91'

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

TEMP MP 1.65'
PRES MP 0.00'

BULL PLUG 1 11/16

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

	COMPANY	<u>CAERUS OPERATING LLC</u>		FILE NO:	<u>CH105967</u>
	WELL	<u>PUCKETT 13D-1</u>		API NO:	<u>05045226150000</u>
	FIELD	<u>GRAND VALLEY</u>			
	COUNTY	<u>GARFIELD</u>	STATE	<u>COLORADO</u>	
	LOCATION:		ELEVATIONS:		
	SHL: 313' FEL & 1100' FSL, 2 7S 97W BHL: 696' FEL & 1501' FSL, 1 7S 97W		KB 8453.8 FT DF GL 8423.8 FT		SEC 1 T 7S R 97W PAD: MESA P2-797 RIG: H&P 330
	SEC <u>1</u> TWP <u>7S</u> RGE <u>97W</u>		DATE		<u>01-Mar-2016</u>