



RESERVOIR PERFORMANCE MONITOR

Baker Atlas

File No:	Company	EXXONMOBIL PRODUCTION COMPANY	
1823	Well	POU 297-1106	
API No:	Field	PICEANCE CREEK	
06103114720000	County	RIO BLANCO	State
		COLORADO	
	Location	Other Services	
	SHL: 877' FUL & 886' FUL	BOND LOG	
	SEC 11 TWP 25 RGE 97E		
Permanent Datum	GL	Elevation	8963 ft
Log Measured From	KB	30.2 ft	Above P. D.
Drill Measured From	KELLY BUSHING		
		KB	8963.2 ft
		DF	8962.2 ft
		GL	8963 ft

Date	17 JULY 2010	
Run	ONE	
Service Order	567892	
Depth Driller	12583 ft	
Depth Logger	12544 ft	
Bottom Logged Interval	12543 ft	
Top Logged Interval	7074 ft	
Time Started	15:30	
Time Finished	00:30	
Operator Rig Time	9 hrs	
Type of Fluid in Hole	WATER	
Fluid Density	N/A	
Salinity	N/A	
Fluid Level	PULL	
Logged Cement Top	N/A	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	N/A	
Nominal Logging Speed	10 fpm	
Maximum Recorded Temperature	N/A	
Reference Log	BAKER ATLAS BOND LOG	
Reference Log Date	17 JULY 2010	
Equipment No.	4271	G.J. COLORADO
Recorded By	J. OSTLER	
Witnessed By	MR. JOHN WOOD	

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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
8.125 in	SURFACE	12583 ft

Casing Record

Size	Weight	Grade	From	To
4.5 in	15.1 lbm/ft	P-110	SURFACE	12583 ft

Remarks

LOG WAS TIED INTO A BAKER ATLAS BOND LOG

WELL WAS LOGGED IN PNC 3-D MODE

SHORT JOINTS AT:

6653' TO 6656'

7656' TO 7659'

8659' TO 8662'

9648' TO 9656'

10649' TO 10656'

11647' TO 11654'

Equipment Data

Run	Trip	Tool	Series Number	Serial Number	Position
1	1	RPM	8281FA	007	FREE
1	1	RPM	8281FA	251	FREE
1	1	RPM	8281EA	984	FREE
1	1	GR	8282XA	270	FREE
1	1	TEL/CCL	8248EA	898	FREE
1	1	PCM	8250EA	851	FREE

MAIN SECTION PNC 3-D MODE

SPL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
PNC Porosity	Borehole	Cased		6980.506	12575.693
PNC Porosity	Borehole Size	9.625	Inch	6980.506	8661.000
PNC Porosity	Borehole Size	6.125	Inch	8661.000	12575.693
PNC Porosity	Casing Size	7.000	Inch	6980.506	8661.000
PNC Porosity	Casing Size	4.500	inch	8661.000	12575.693
PNC Porosity	Gas Filled	Non Gas Filled		6980.506	8661.000
PNC Porosity	Gas Filled	Non Gas Filled		8661.000	12575.693
PNC Porosity	Matrix	Sandstone		6980.506	12575.693

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
8248EA	-15.470	FLTM					
8248EA	-13.470	CCL	CHV				
8262XA	-10.189	GR					
8281XA	-0.662	HVC3Q0	SEQ3	AMA3	AML3	BKX	CXS
		CPT3Q0	CPT3Q2	CPT3Q3	CPT3Q4	ET3	IXS
		MCS3	MCS3Q0	QCAL3	RGN3	RICK	SDA3
		FLTM	FLTM	FLTM	FLTM	FLTM	FLTM

B2B1XA

-0.250

SDL3	SGA3	SGL3	STA3	XS	ASPEC3
AMB3	AMF3	CHF3	IXSC	IXSN	RAT023
RICXC	RIN13C	RIN23	RIN23C	SD3D	SG3D
SGB3	SGF3	WDTH3	CKSR	IXSR	XSR
RICXR					
HVC2Q0	SEQ2	AMA2	AMB2	AMF2	AML2
BKL	CHF2	CLS	CPT2Q0	CPT2Q2	CPT2Q3
CPT2Q4	ET2	ILS	LS	MCS2	MCS2Q0
QCAL2	RGN2	RICL	RONE23	RTW023	SDA2
SDL2	SGA2	SGB2	SGF2	SGK2	SGL2
STA2	ASPEC2	ILSC	ILSN	WDTH2	RICLC
CLSR	ILSR	LSR	RICLR		

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0.000

GPRS	HVC1Q0	WV	SEQ	SEQ1	AMA1
AMB1	AME1	AMF1	AML1	BKS	CHF1
CSS	QORB	QORF	CPT1Q0	CPT1Q2	CPT1Q2A
CPT1Q2B	CPT1Q2C	CPT1Q3	CPT1Q4	CPT1Q5	ET1
G1	G2	GE1S	GE2S	ISS	MCS1
MCS1Q0	QA1	QCAL1	QM1	RATO	RAT013
RBOR	RGN1	RICS	RIN	RONE	RPOR
RTW0	RIN13	RONE13	RTW013	SALB	SC1
SDA1	SDL1	SGA1	SGB1	SGBC	SGE1
SGF1	SGFC	SGK1	SGL1	SS	SS2
STA1	PD1S	PD2S	PD3S	MD1S	MD2S
MD3S	DG1S	DG2S	DG3S	PD1M	PD2M
PD3M	MD1M	MD2M	MD3M	DG1M	DG2M
DG3M	MVS	MA	MM	FILV	IAM
TA	PVM	PVS	IAS	SSTAT	QPD1
QPD2	QPD3	QMD1	QMD2	QMD3	QDG1
QDG2	QDG3	QMA	QTA	QFILV	QMV
QPV	QIA	DERR	DCNT	QPK1	QSA1
PKS1	ASPEC1	HOC	FE2XC	ISSC	RINC
ISSN	RDEN	WDTH1	RICSC	CSSR	G1R
G2R	ISSR	SSR	SS2R	RATOR	RAT013R
RBORR	RICSR	RINR	RIN13R	RONER	RPORR

SYSTEM

0.000

TEN TTEN

Created by : RPMB, v5.0.0.0

Plotted by : PlotMgr, v5.4.5D4

Company : EXXON MOBIL PRODUCTION COMPANY

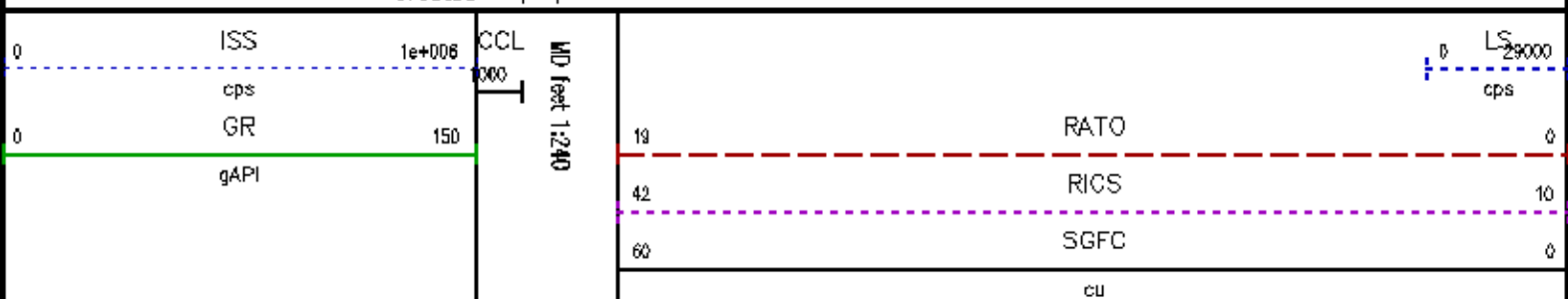
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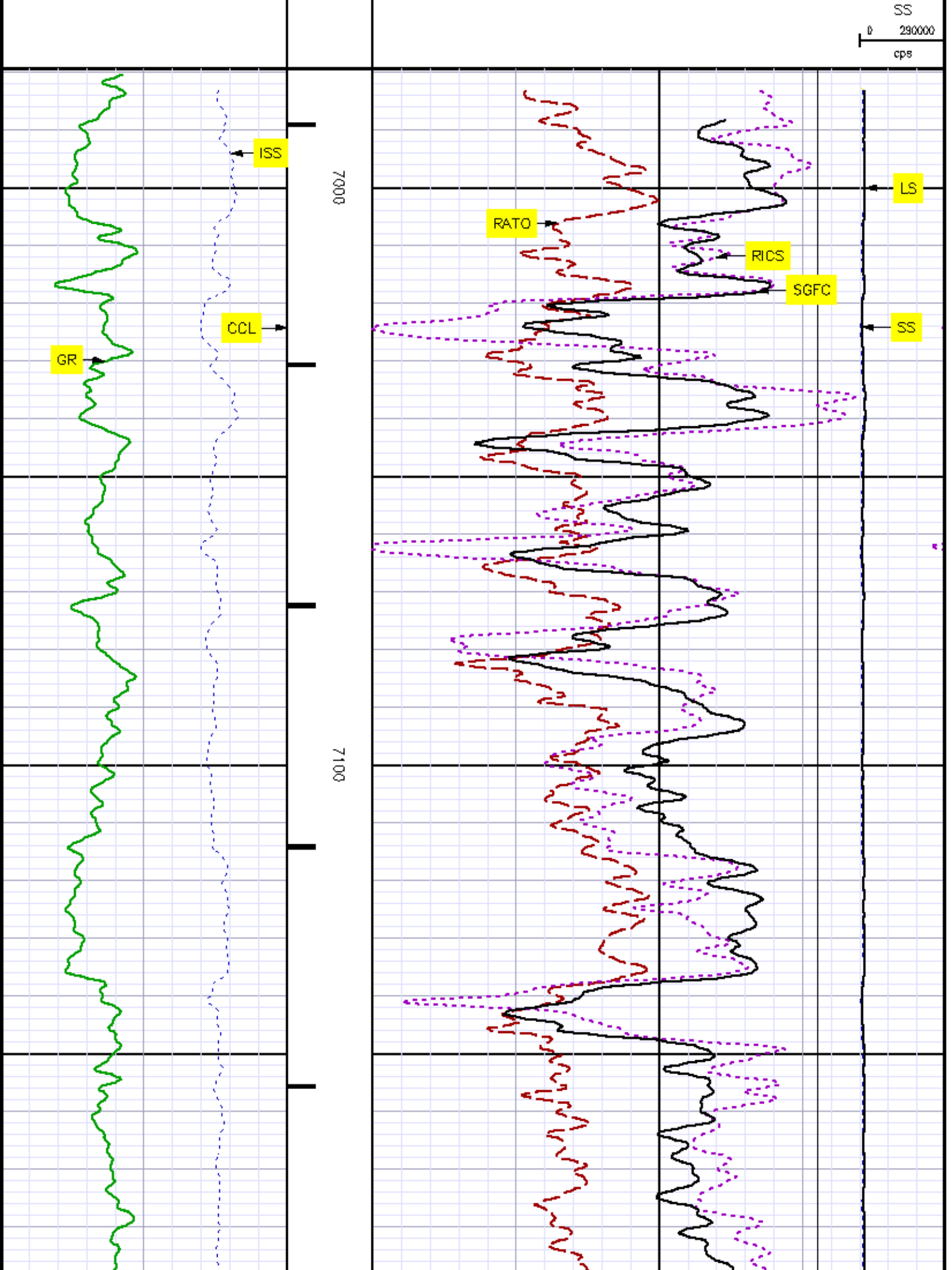
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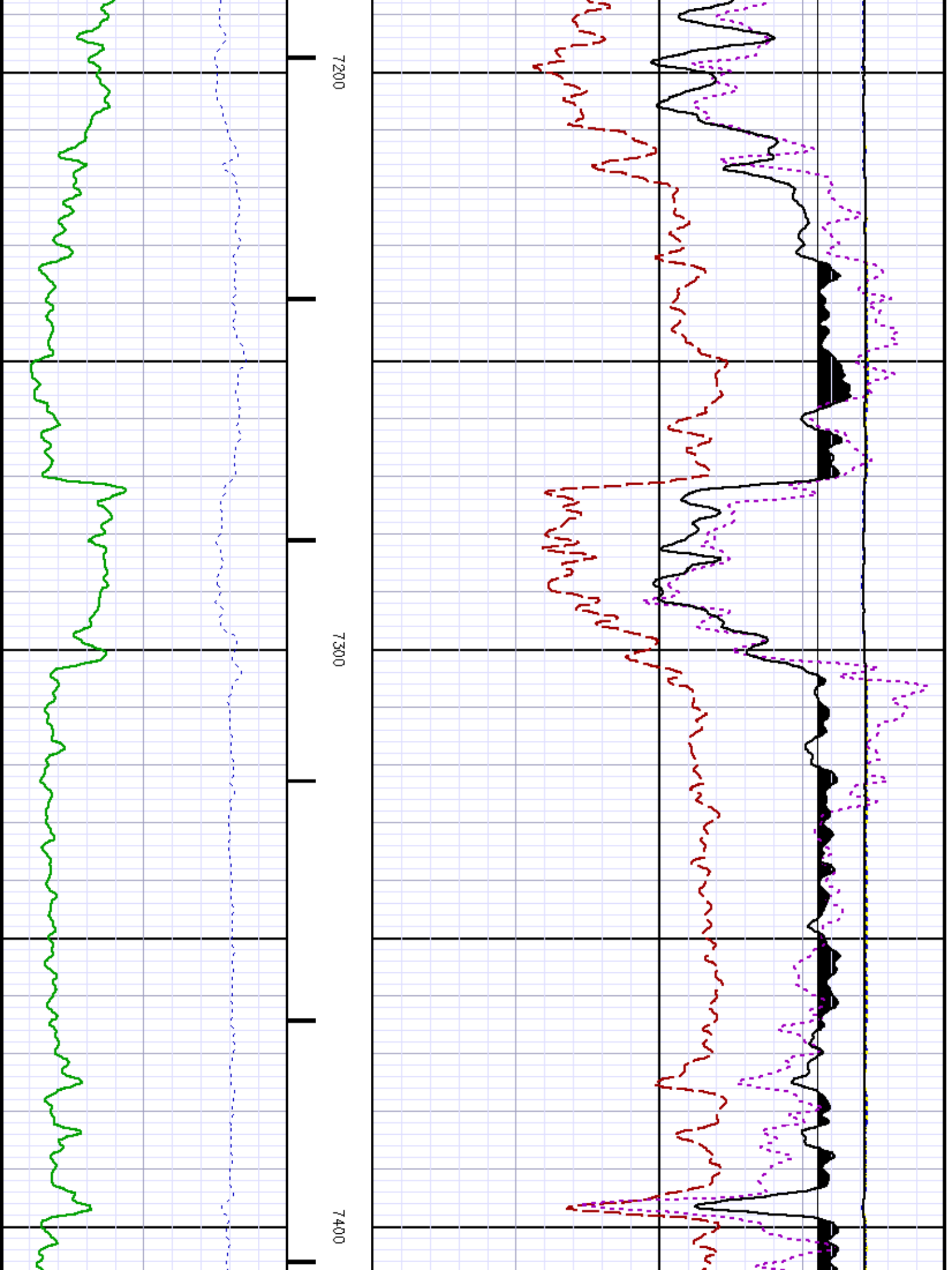
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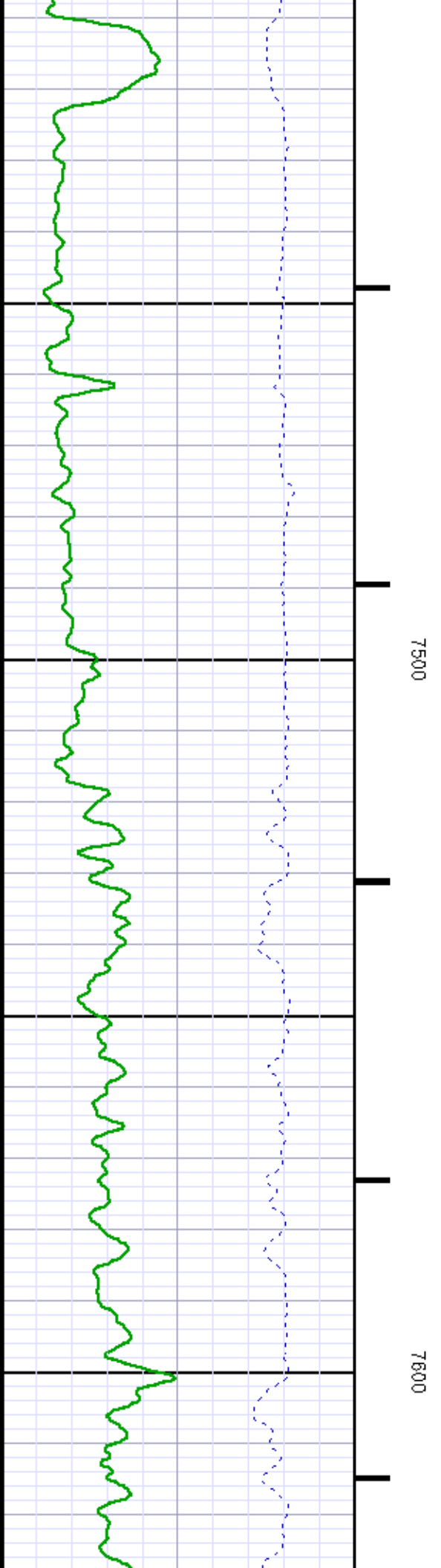
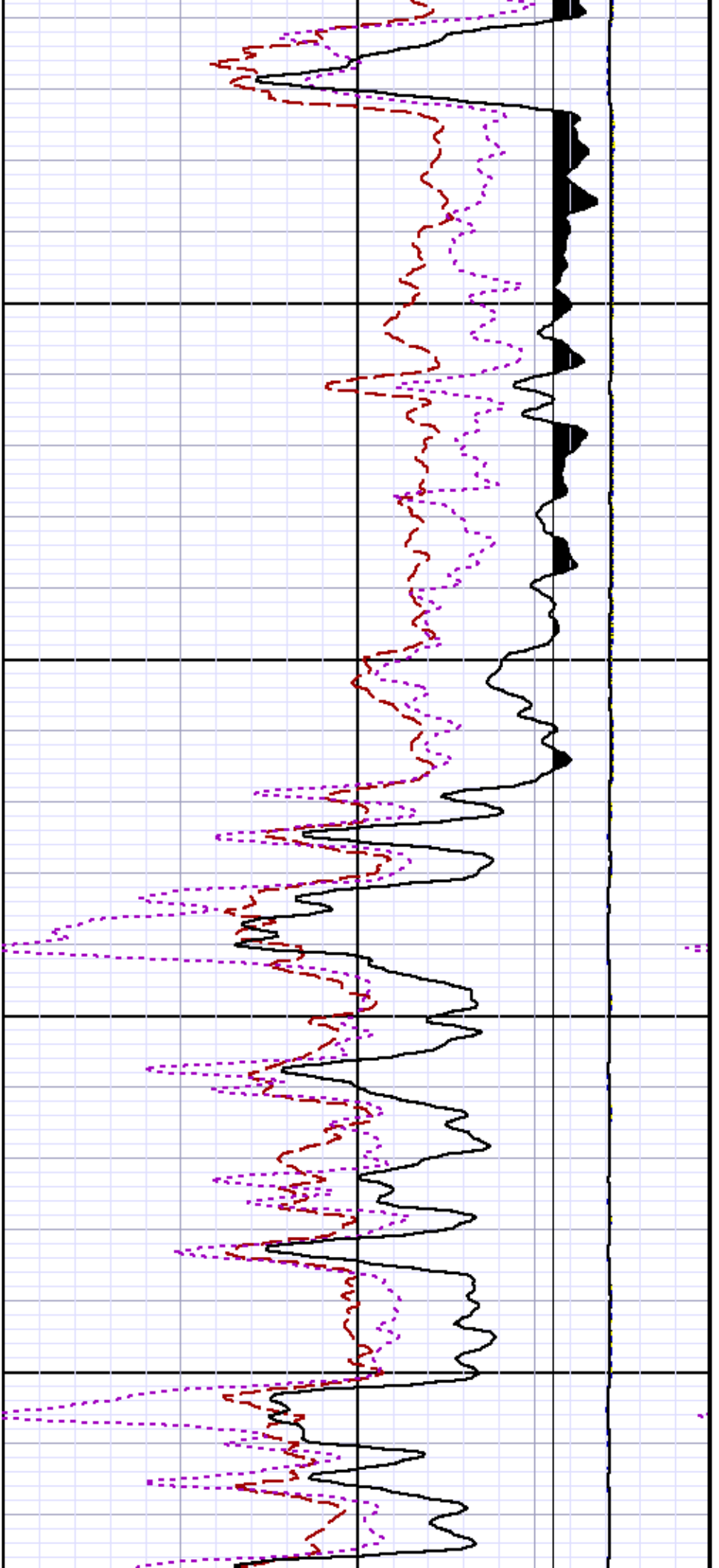
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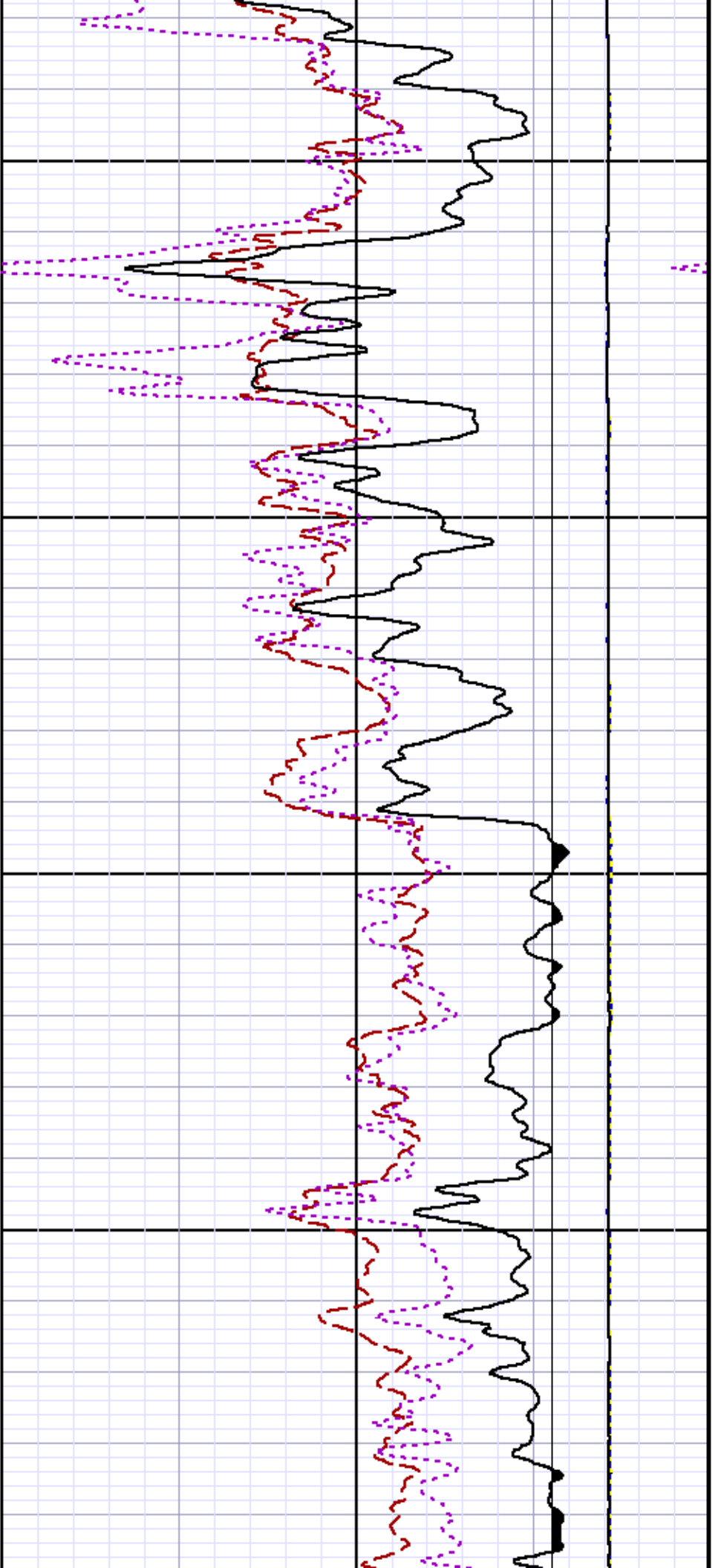
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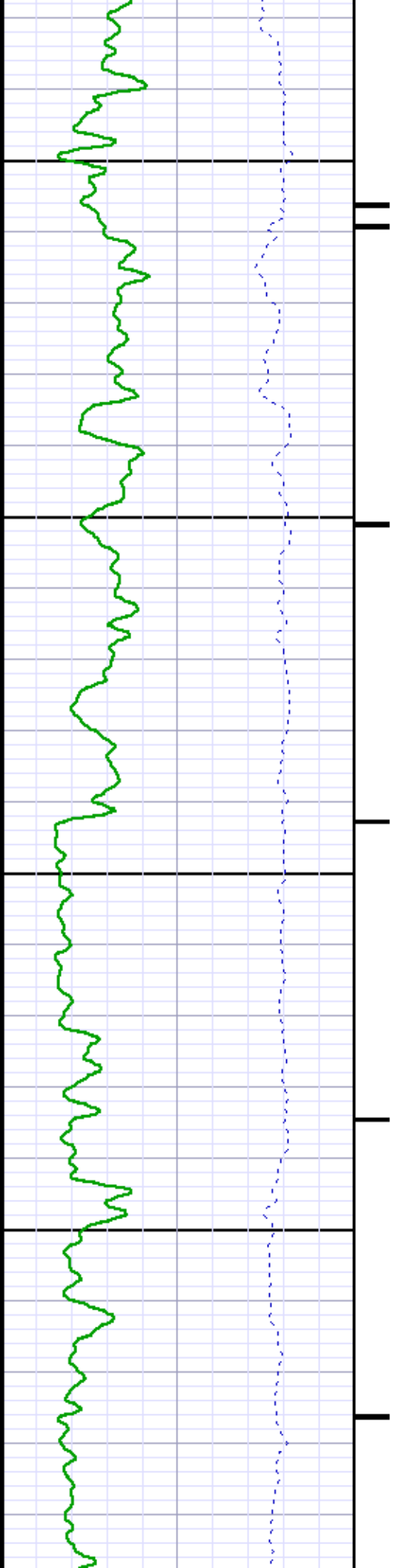


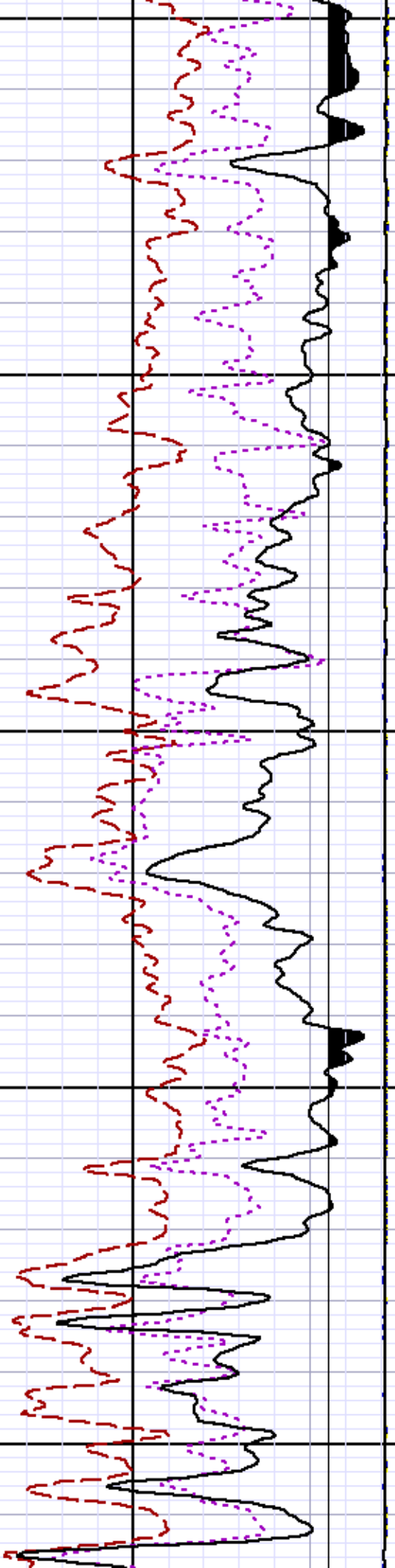




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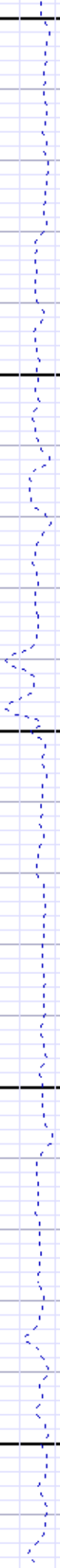
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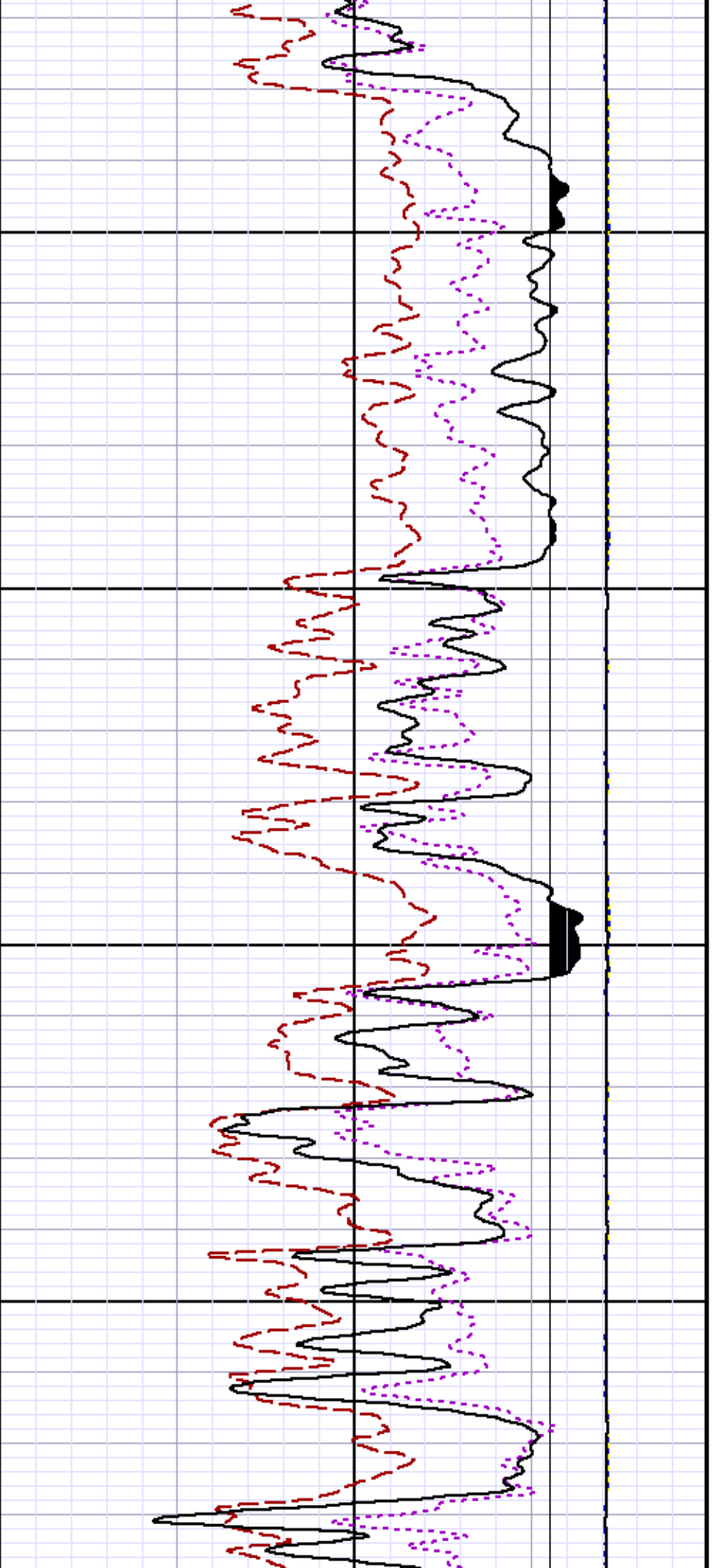




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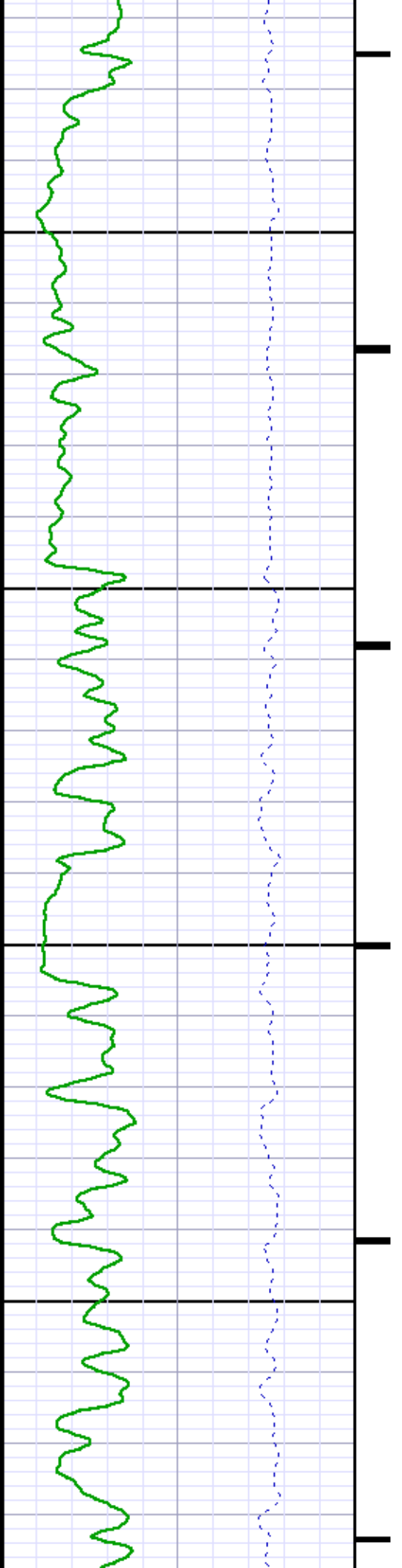
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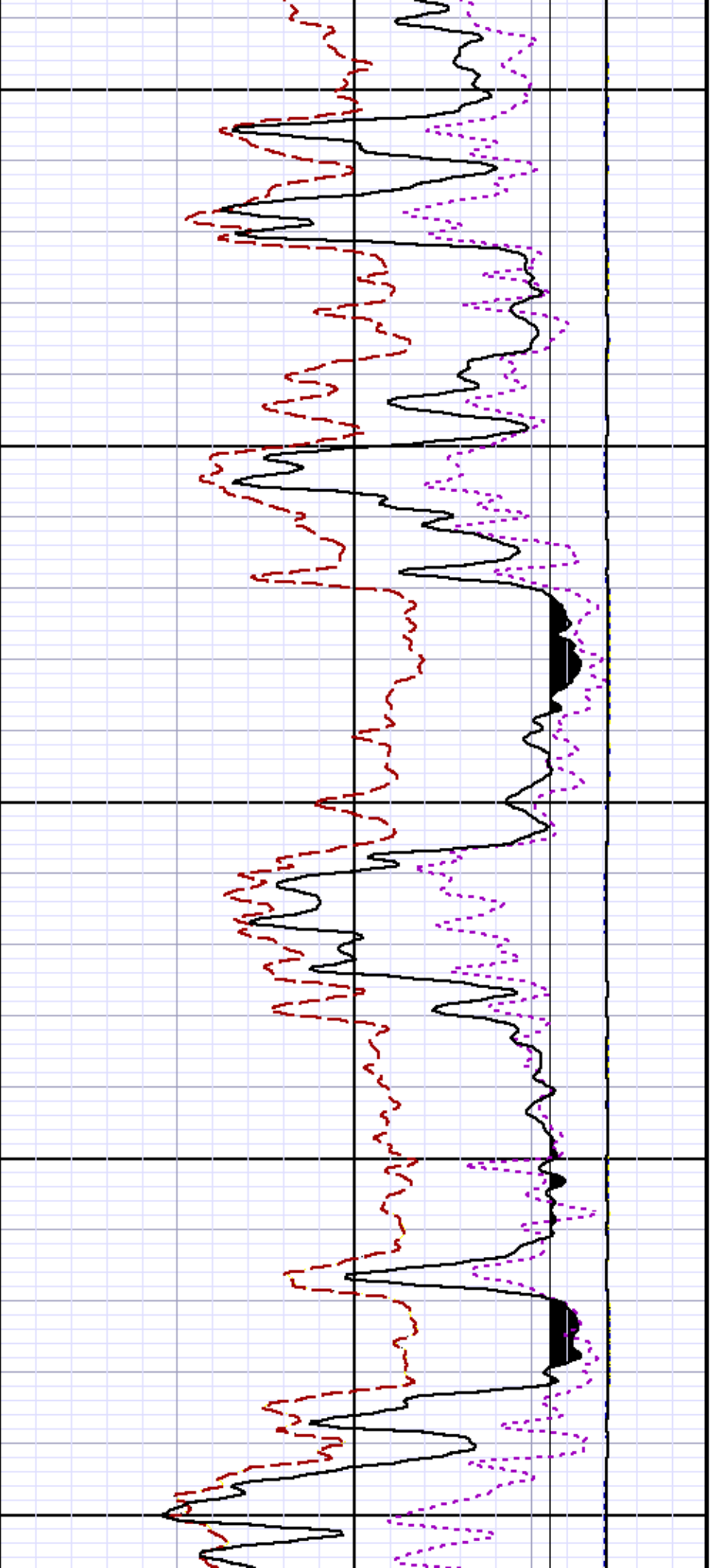




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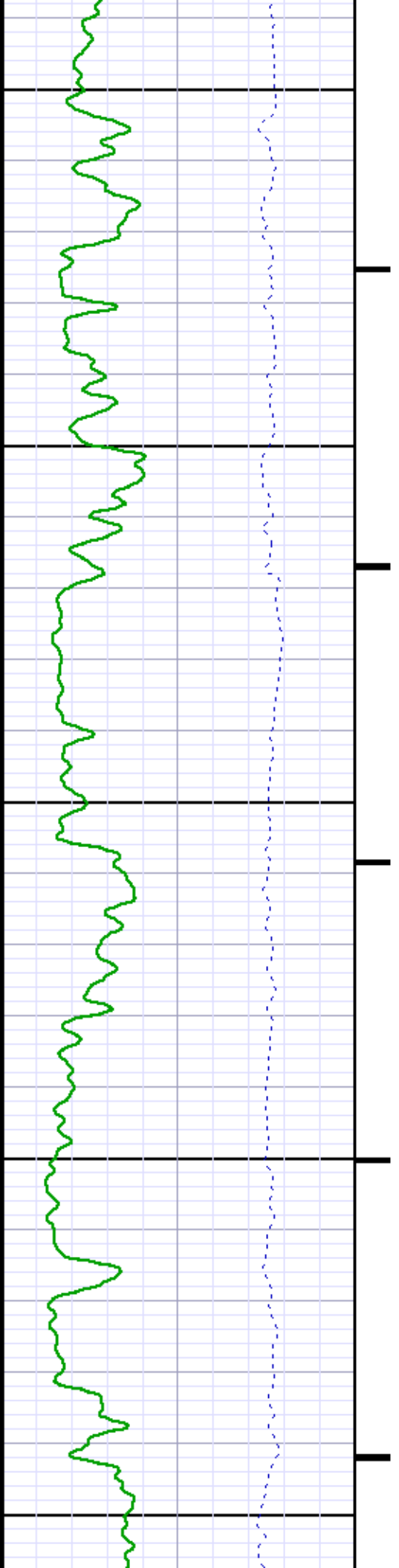


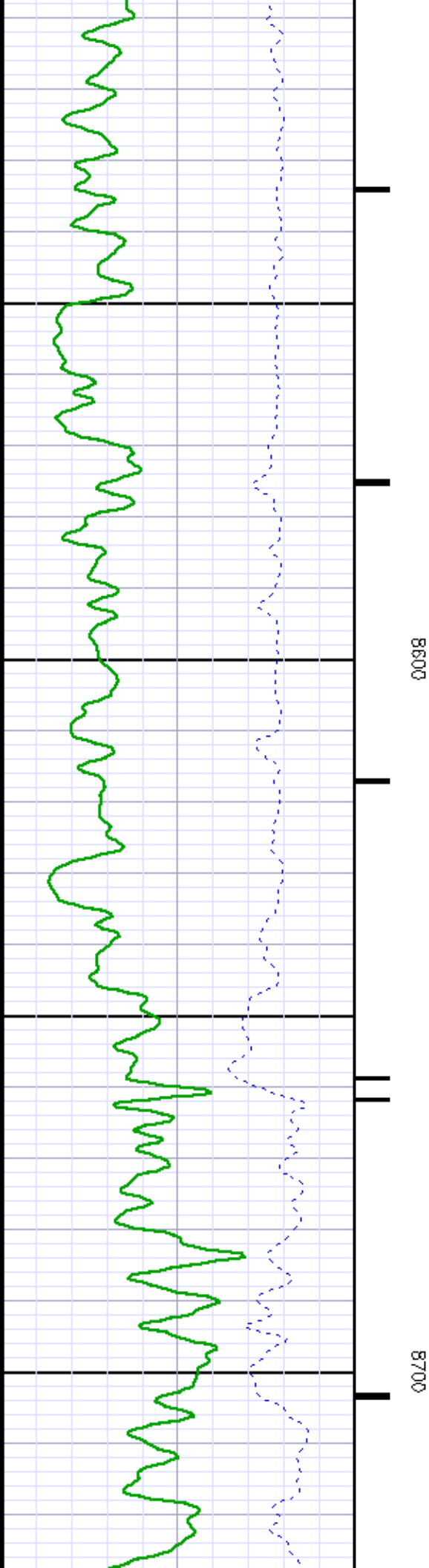
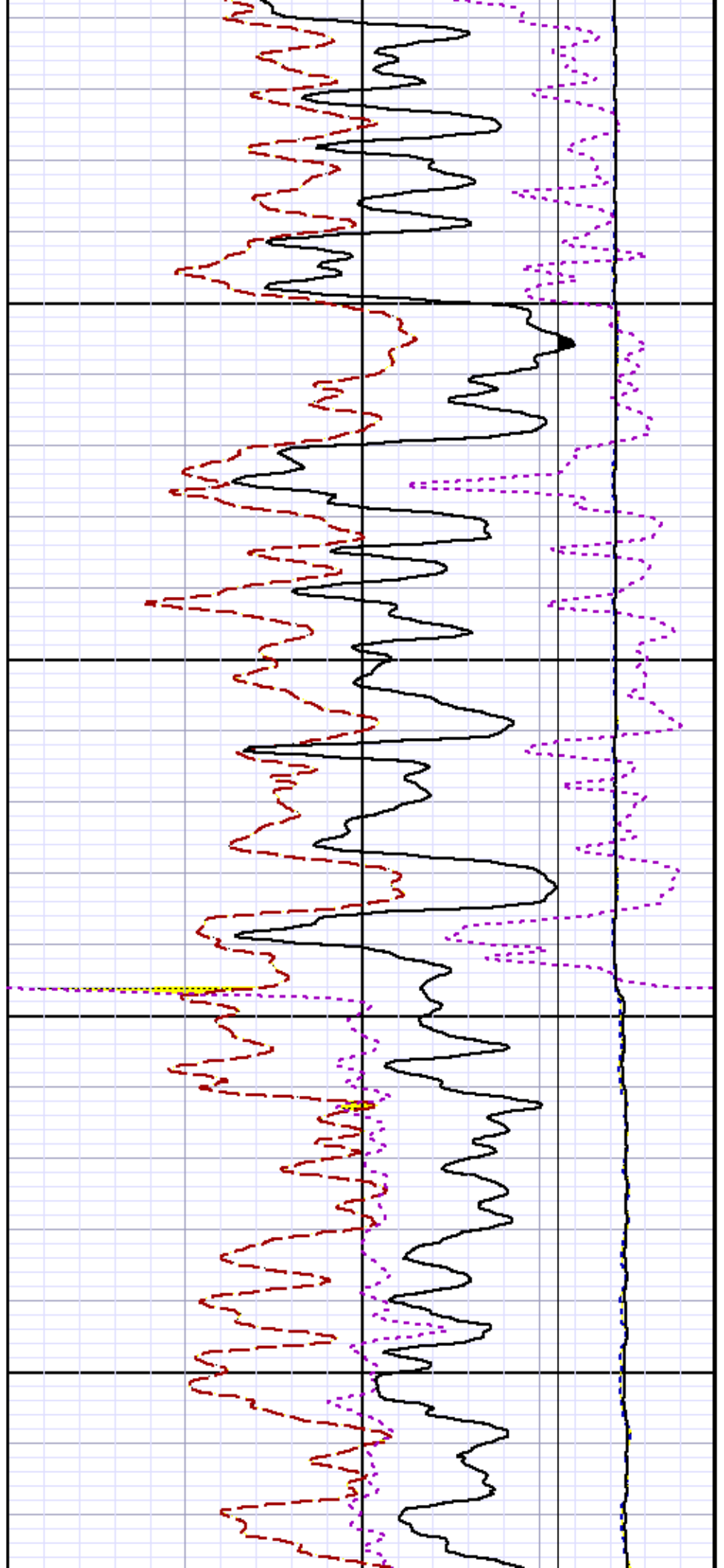


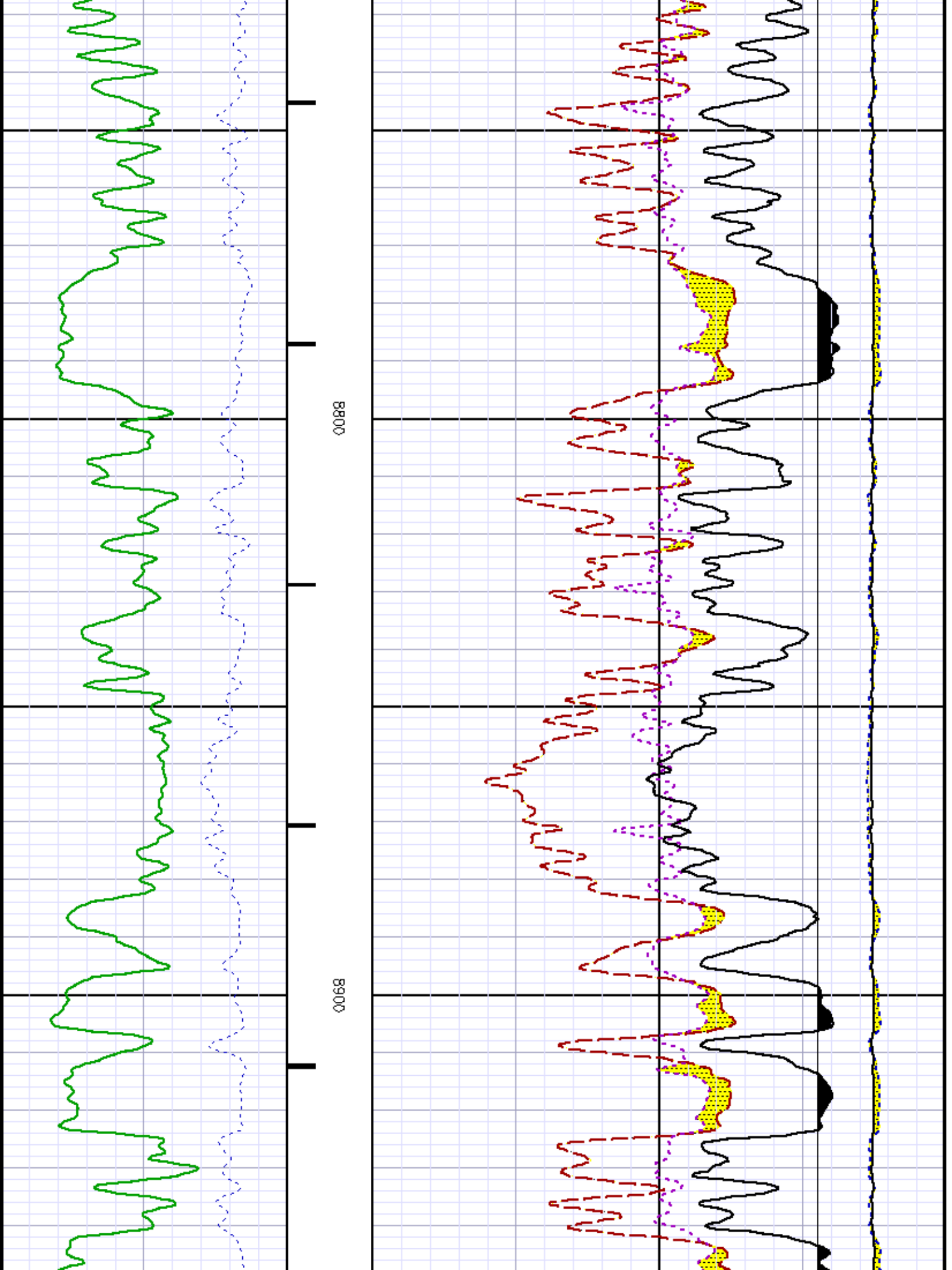
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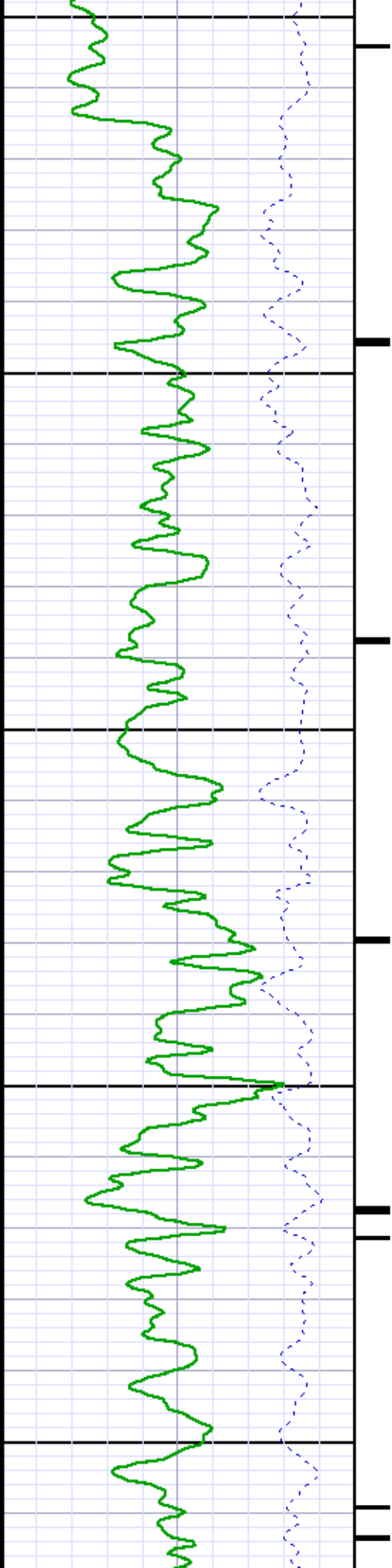
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8500



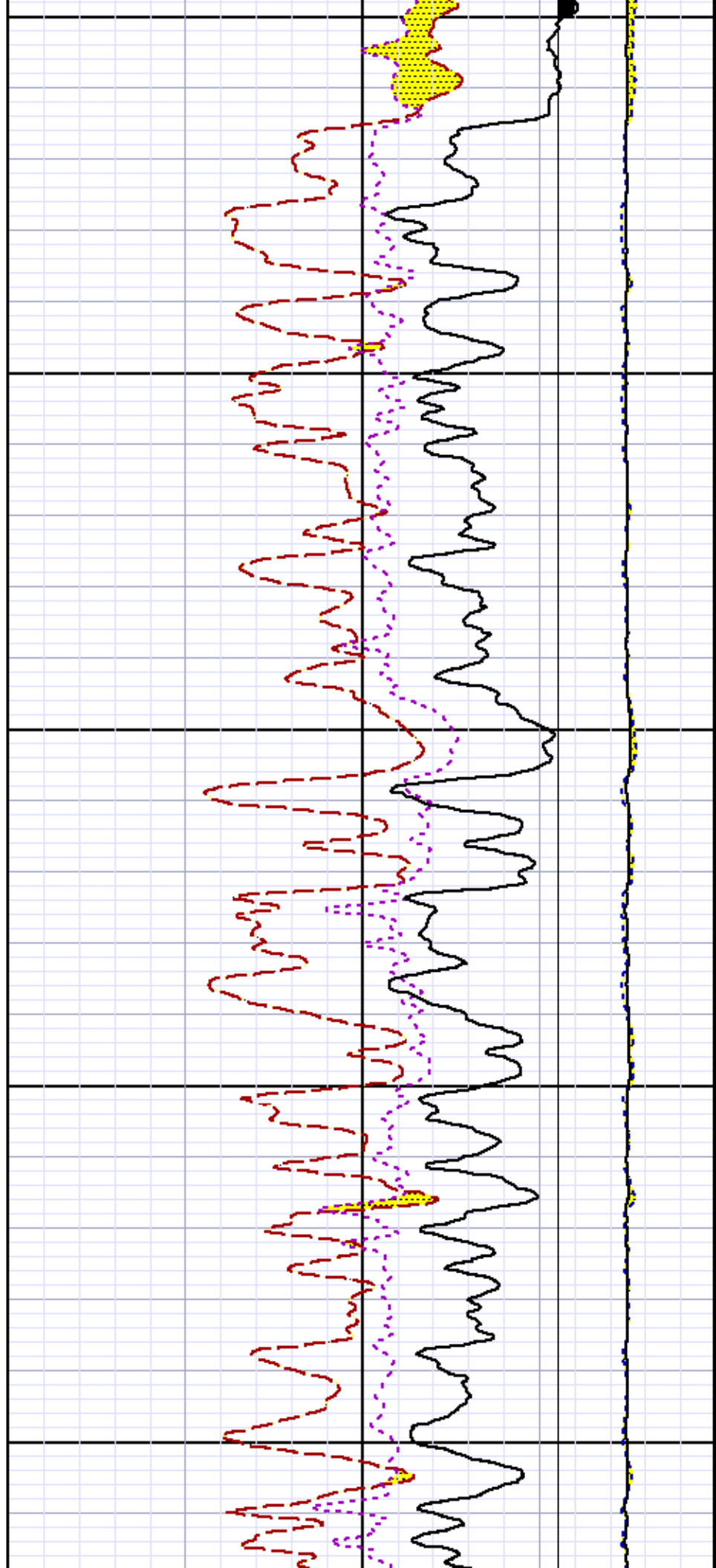


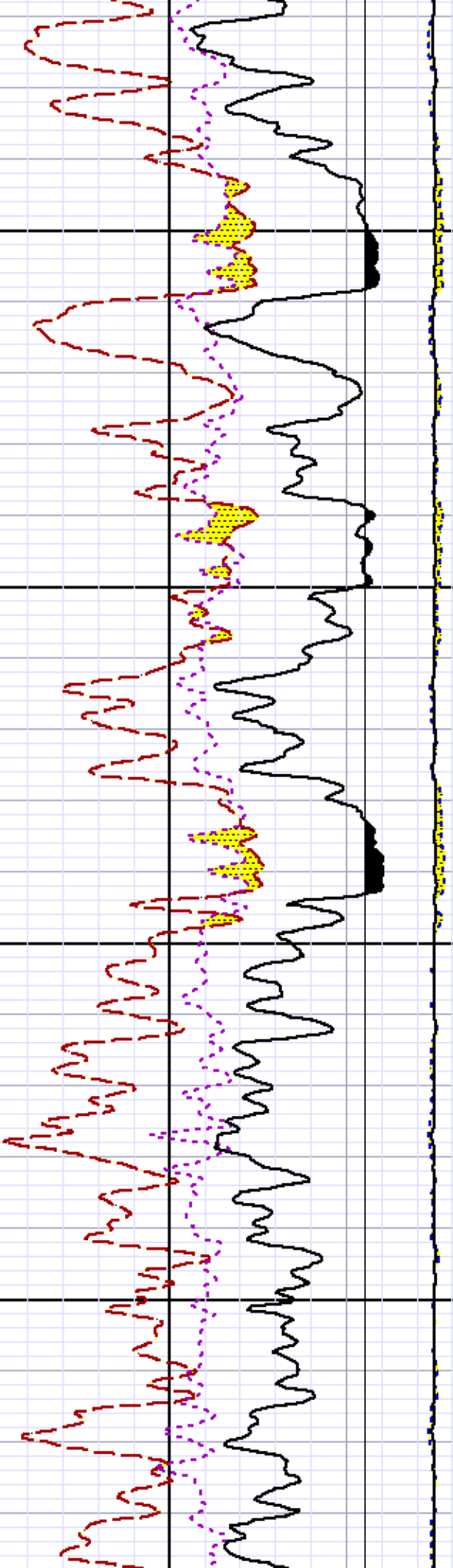




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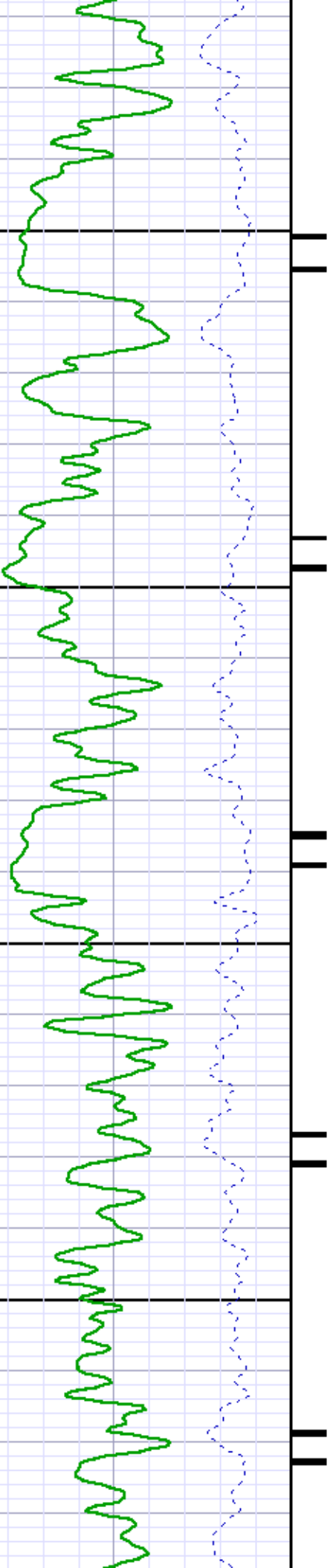
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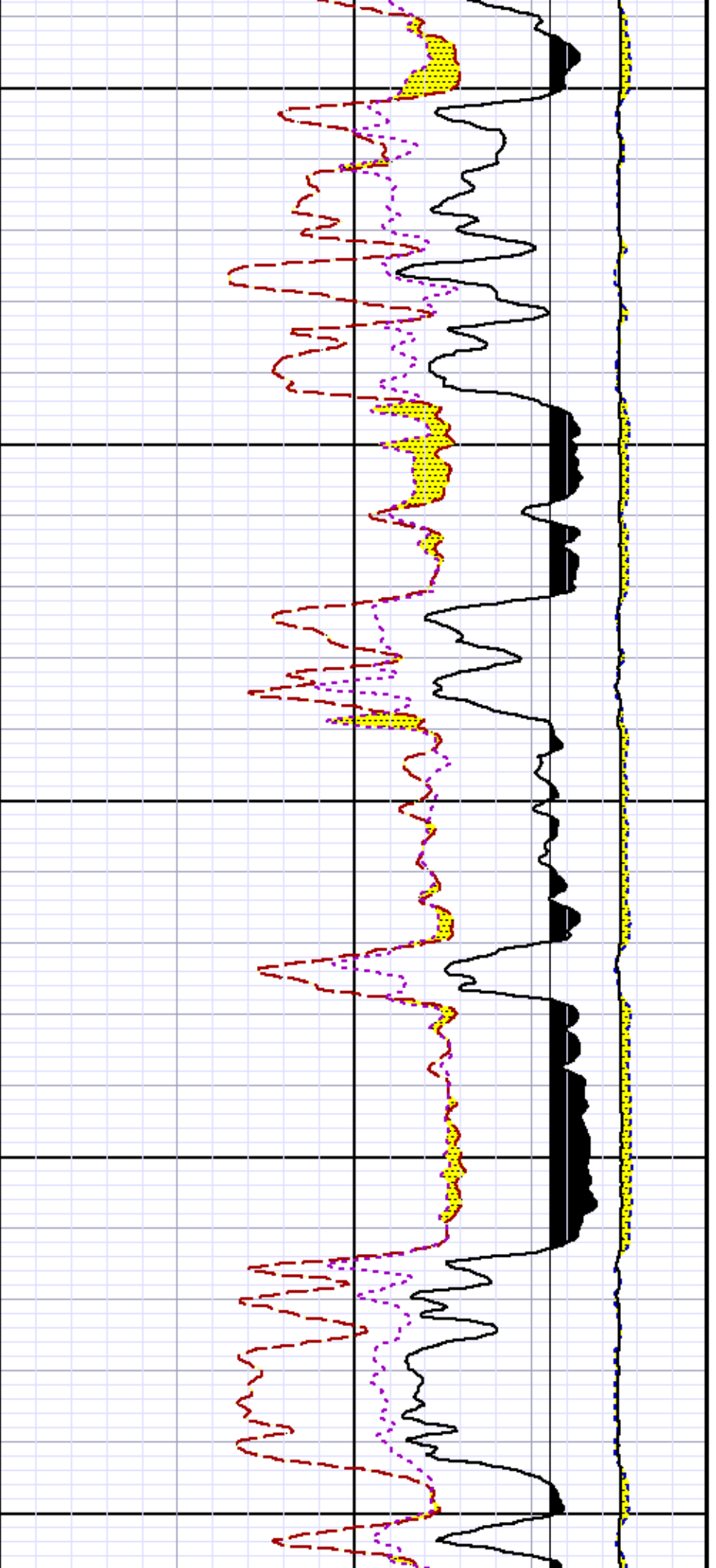




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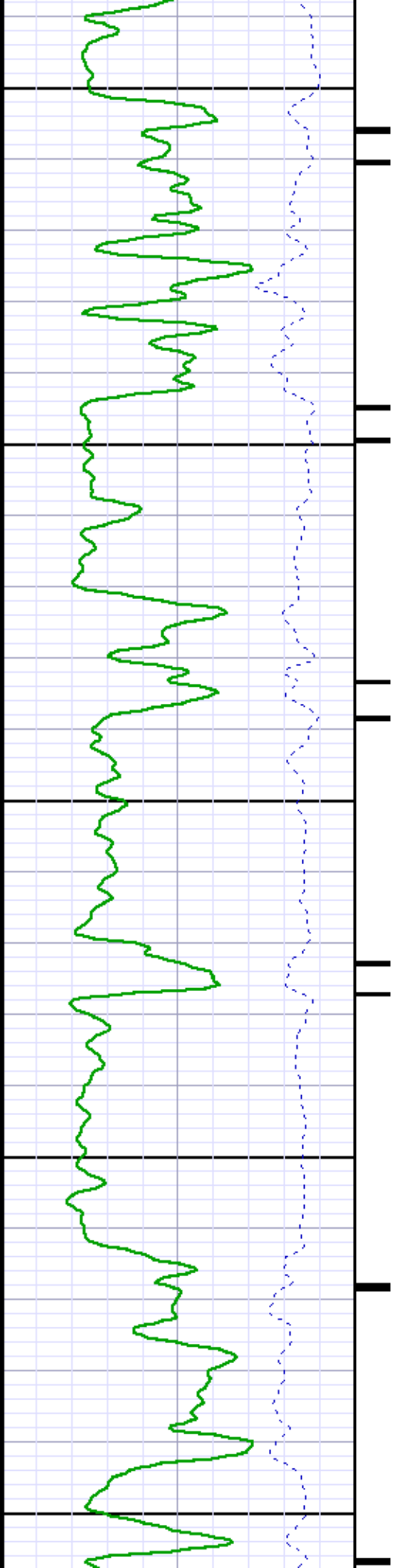


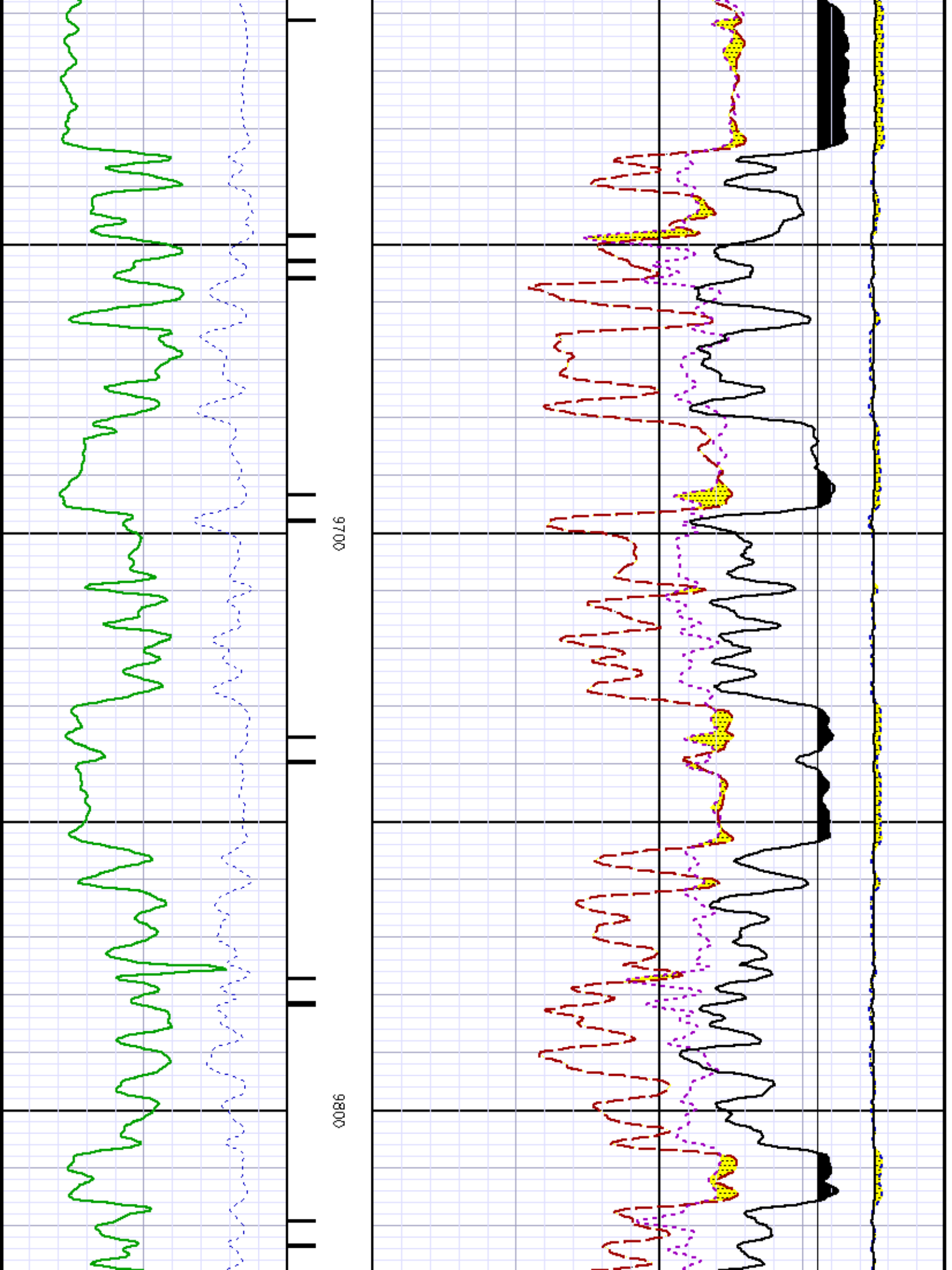


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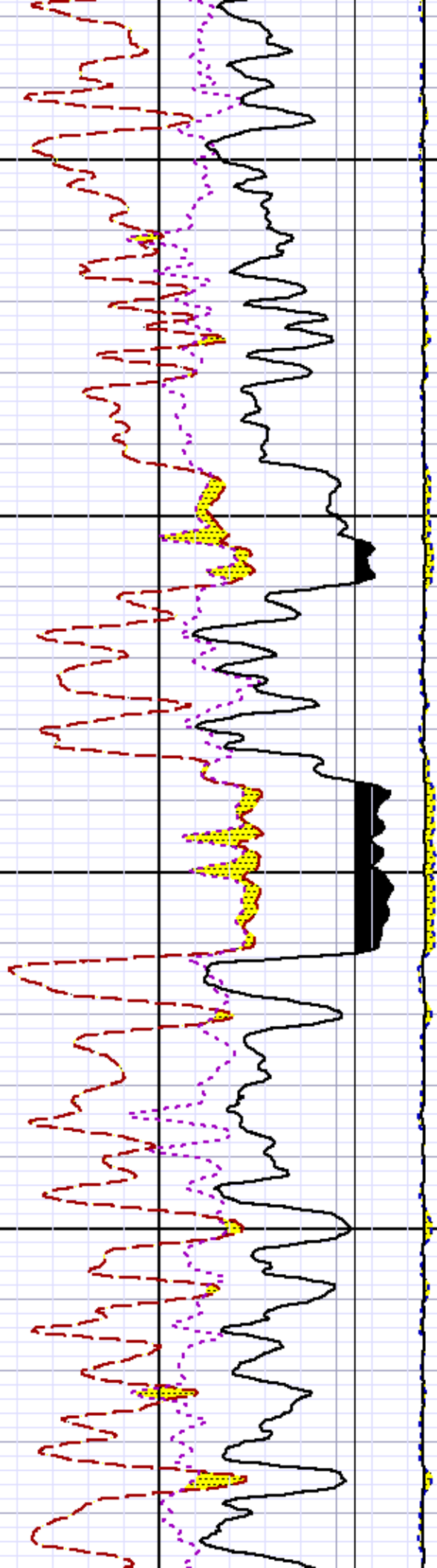
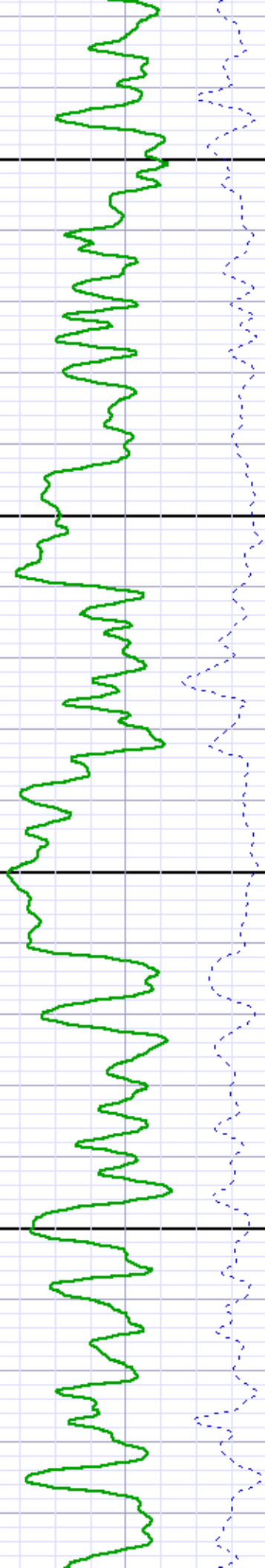
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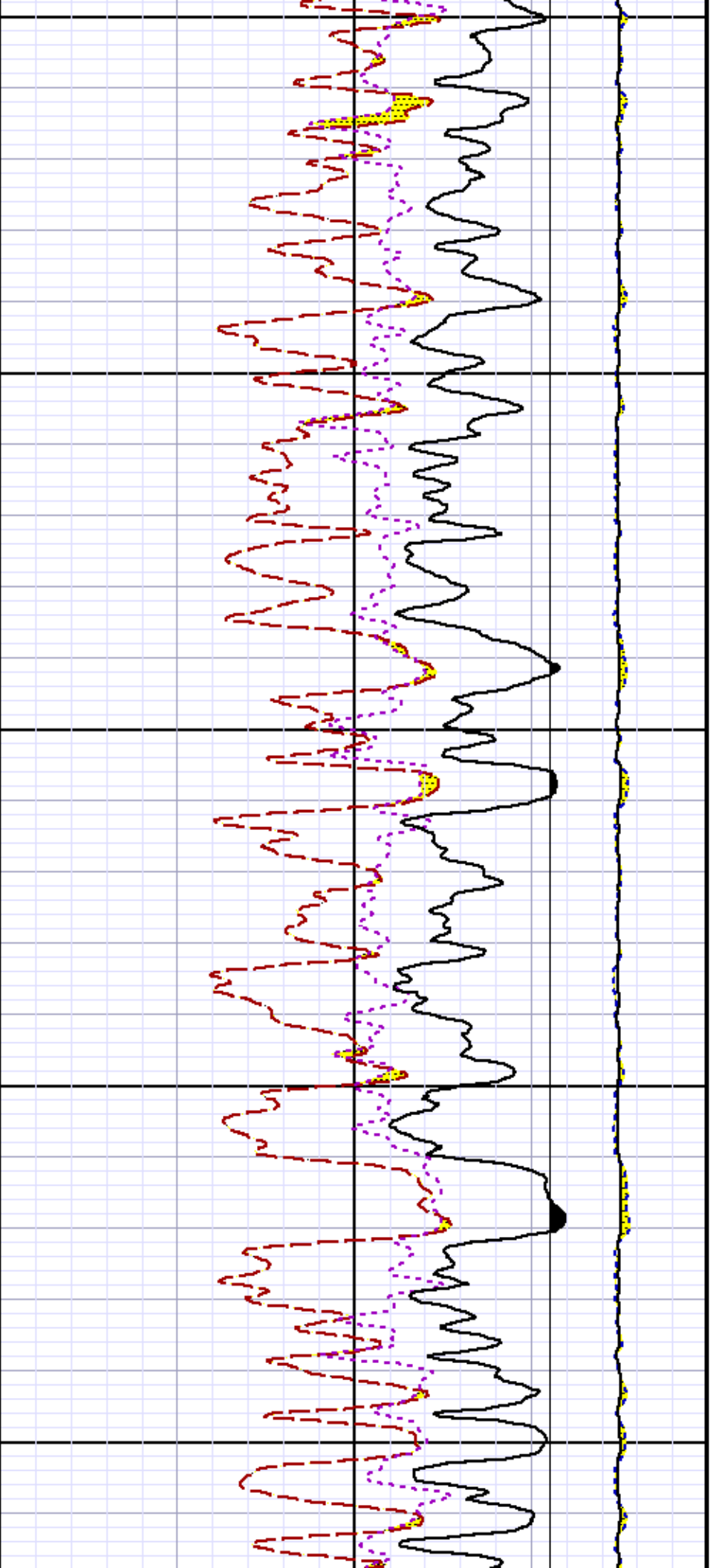




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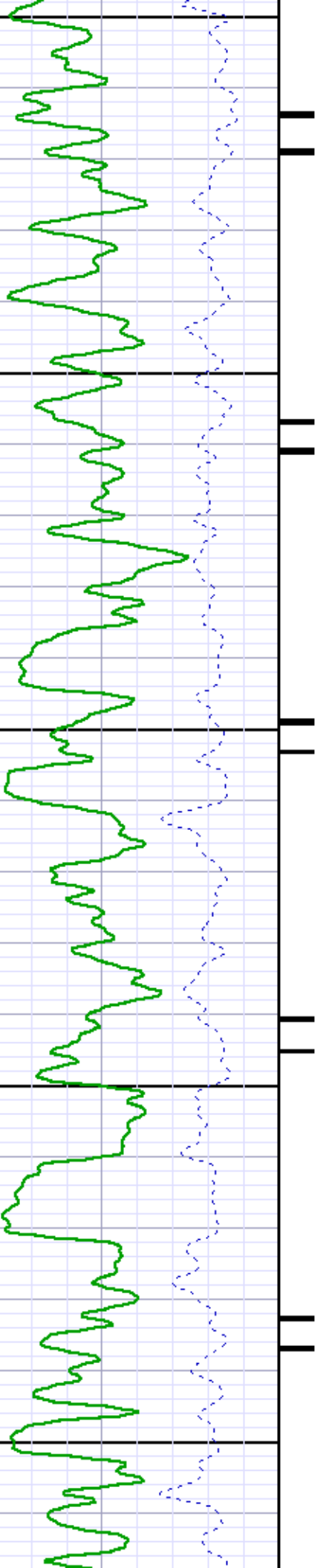
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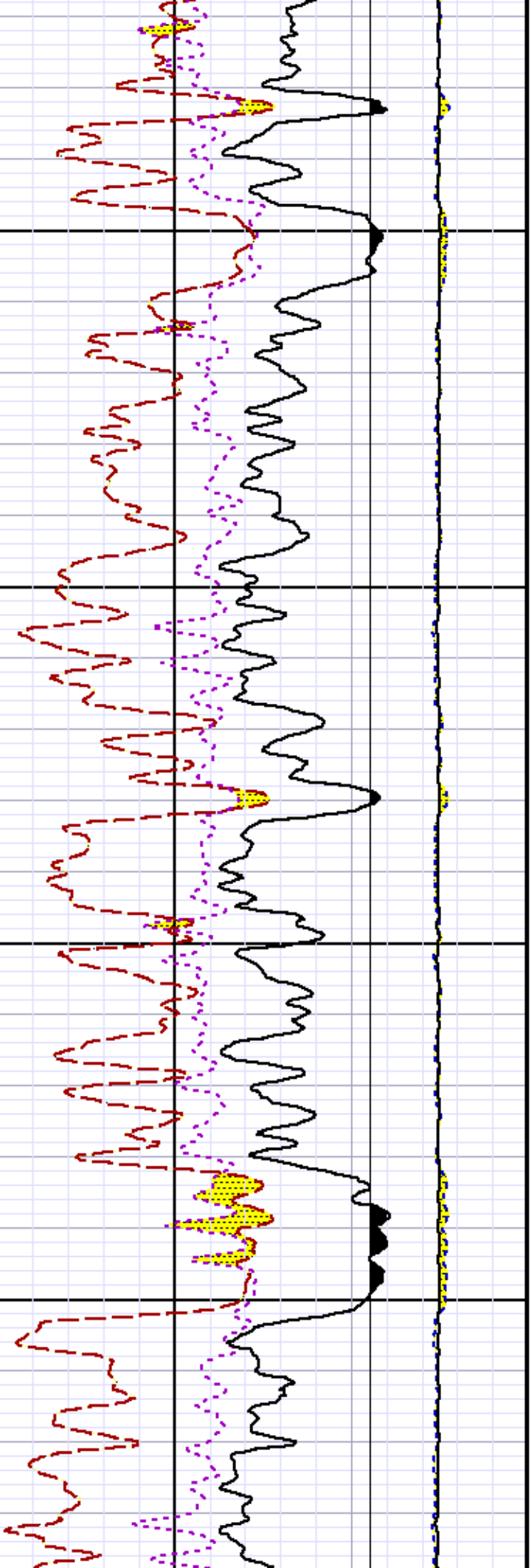




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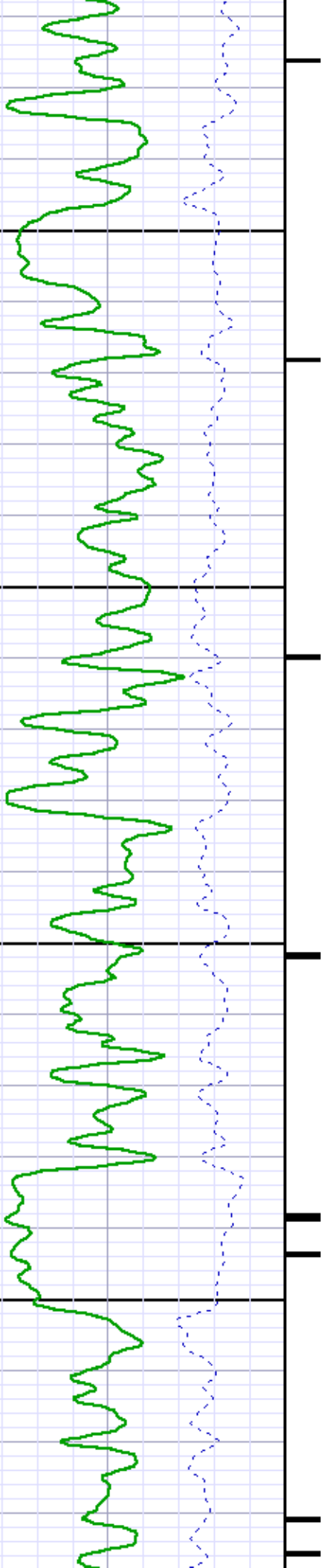
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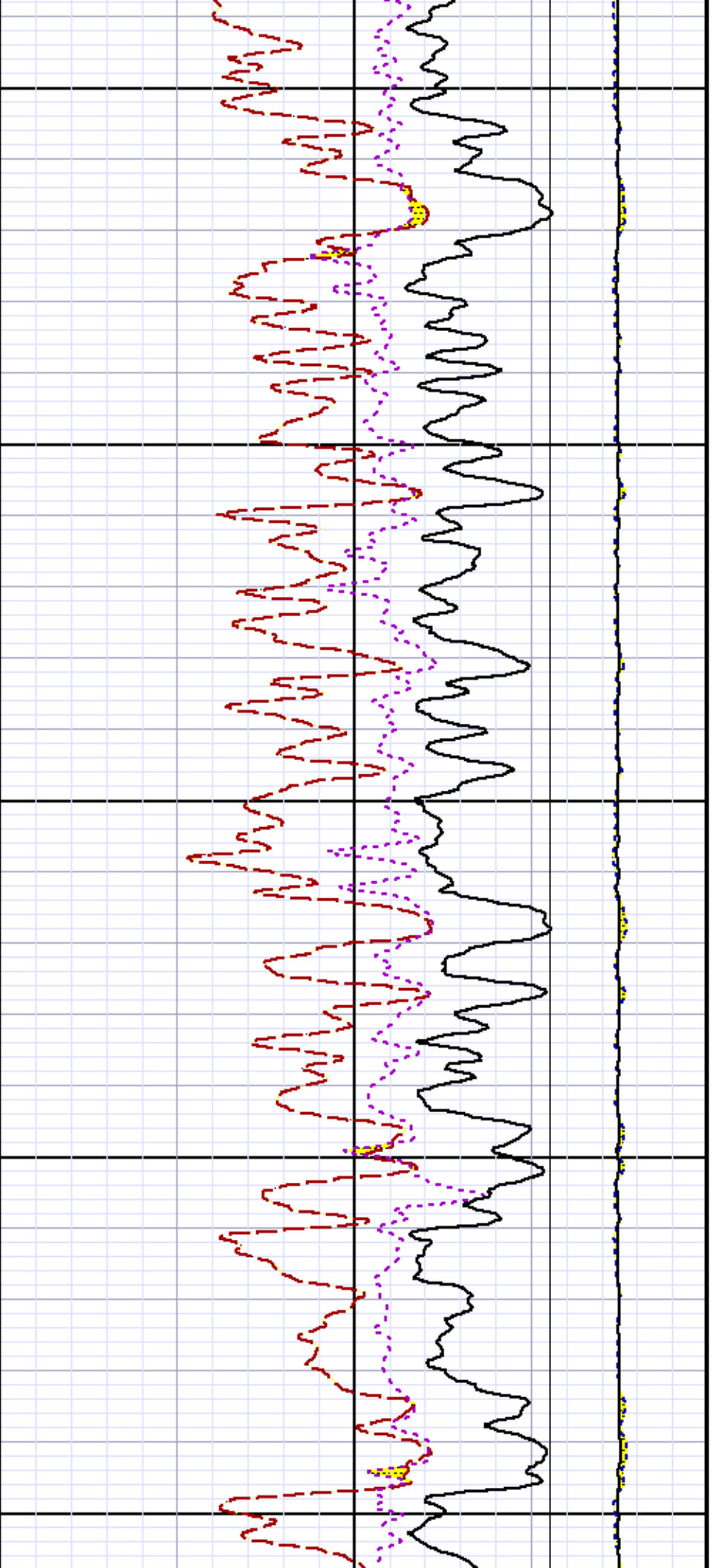




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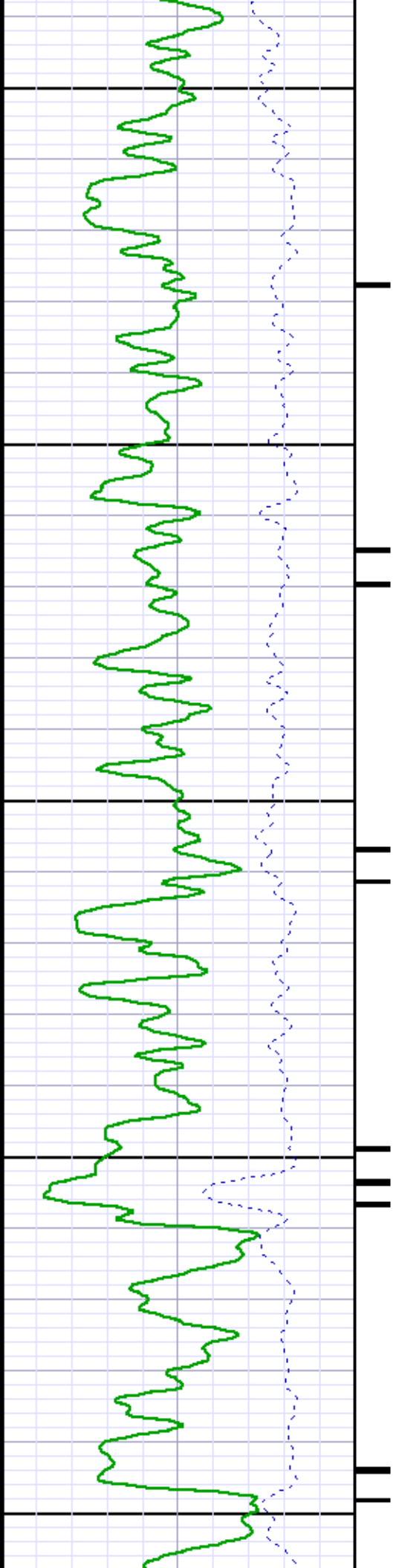


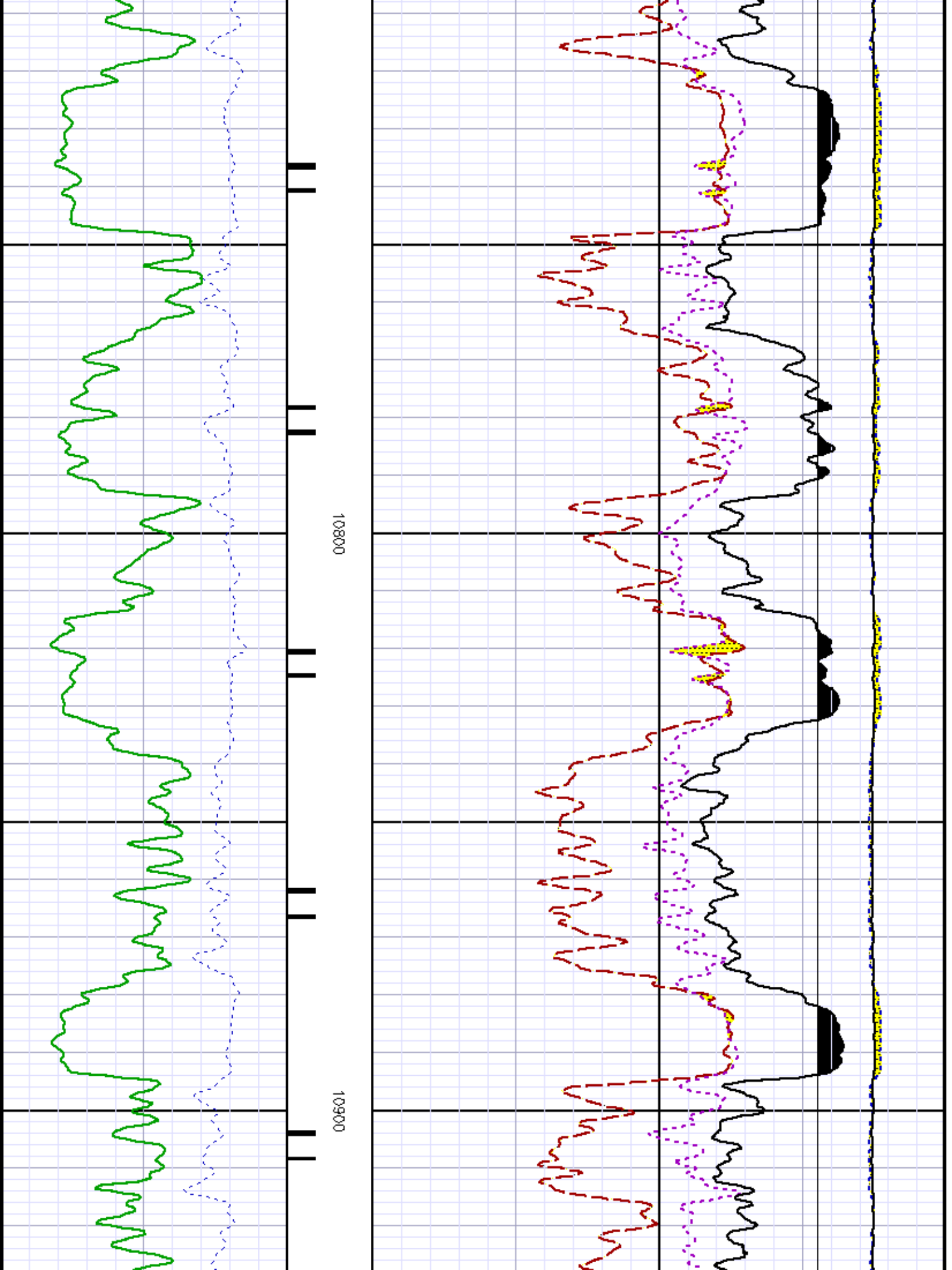


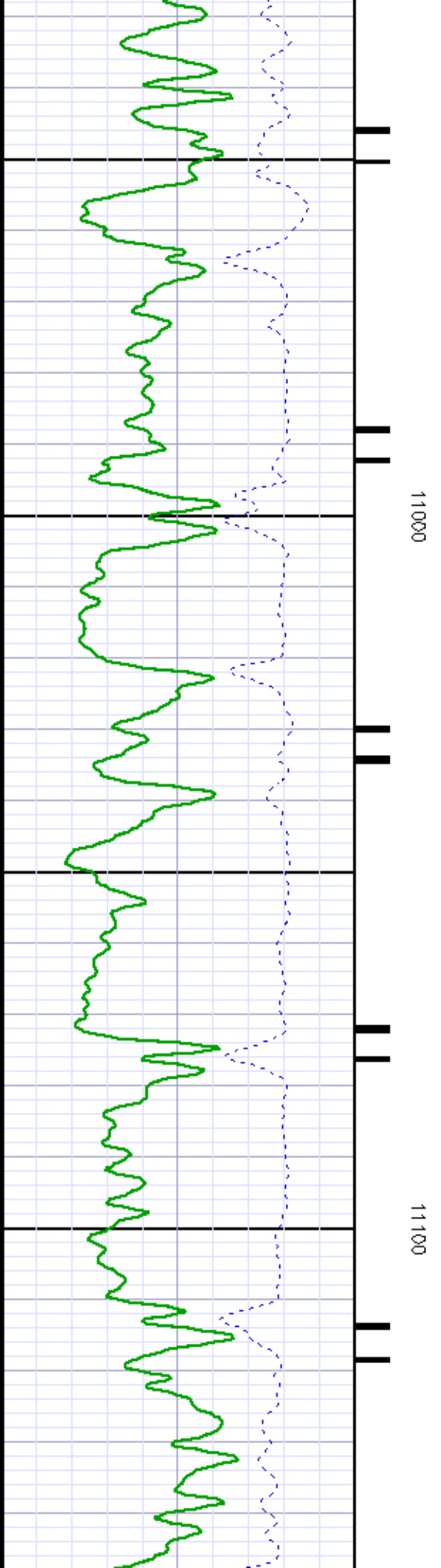
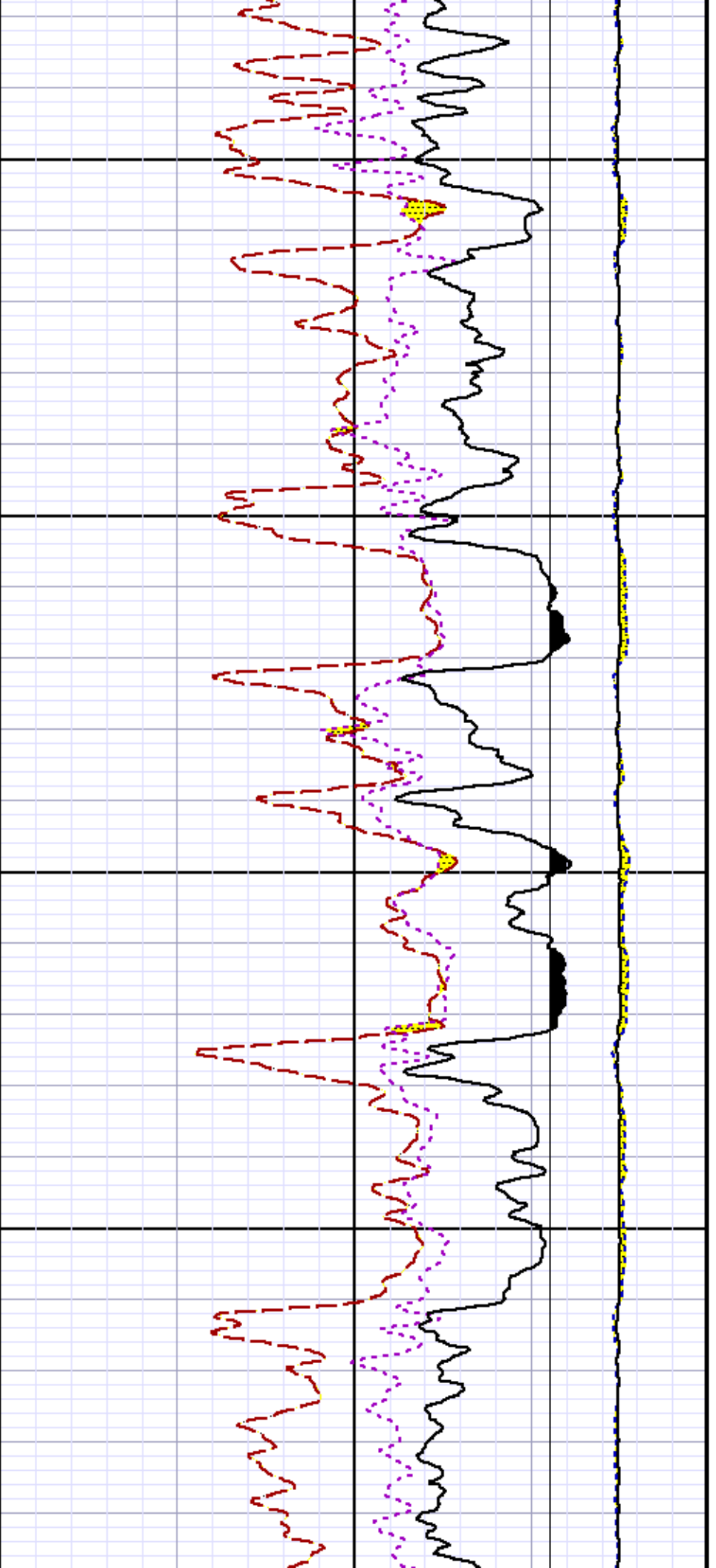
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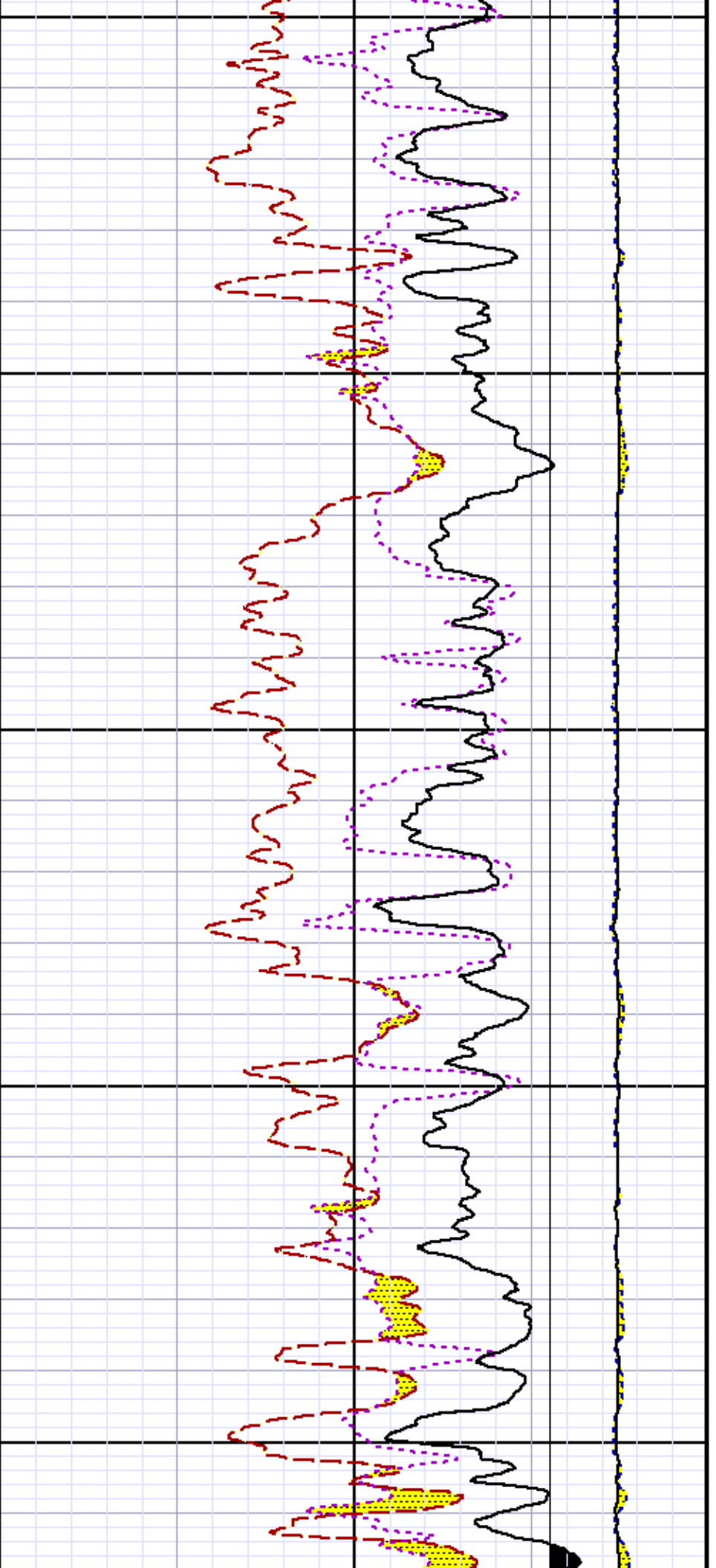
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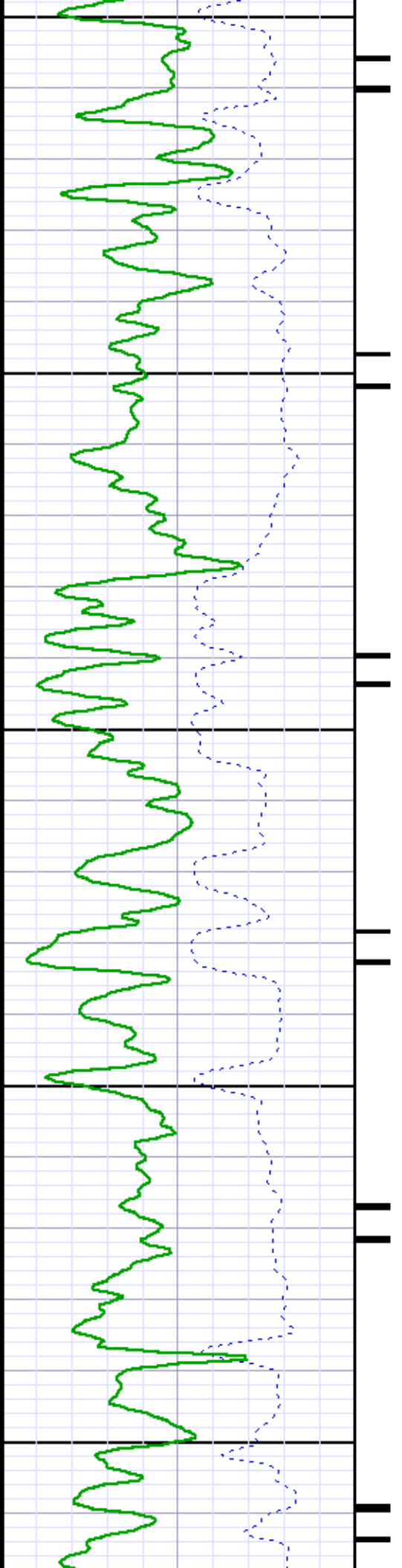


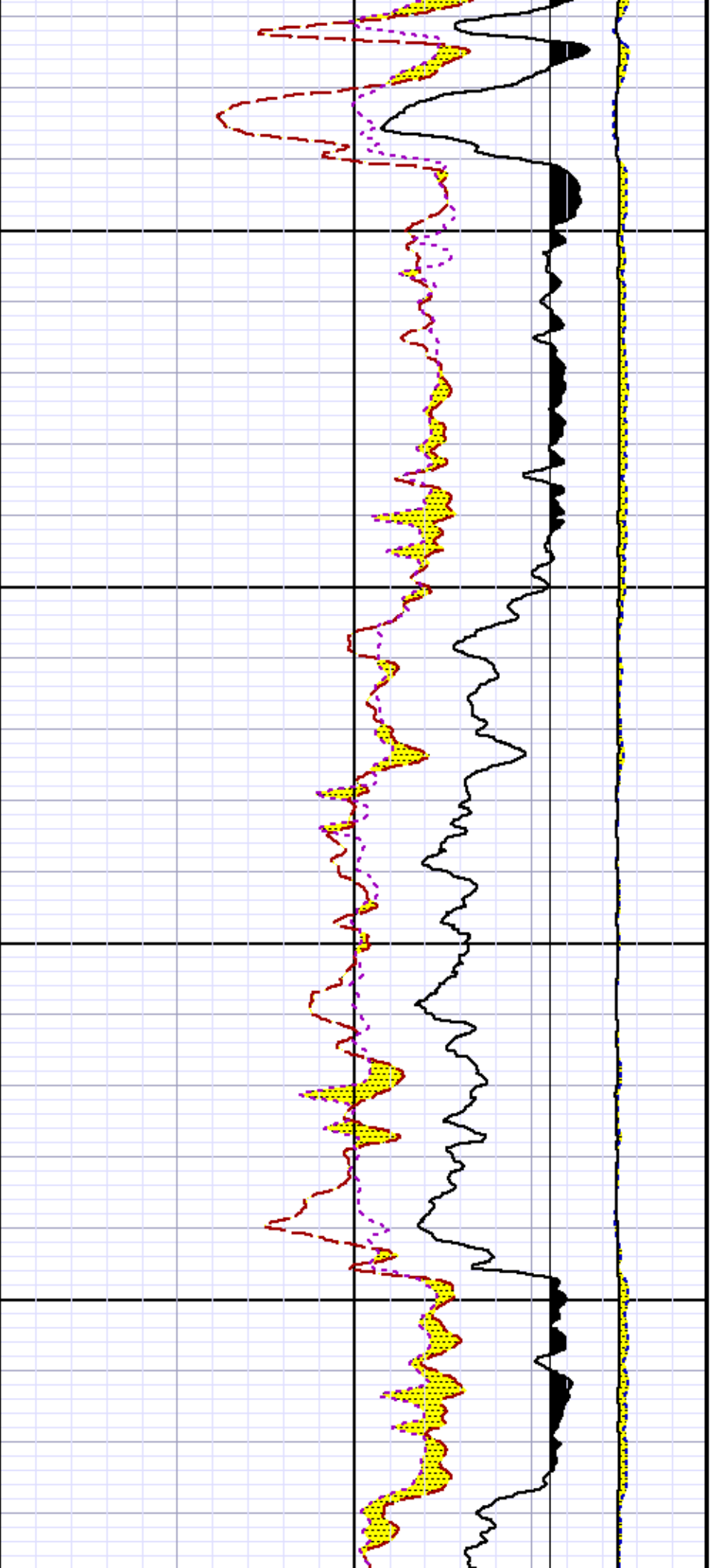




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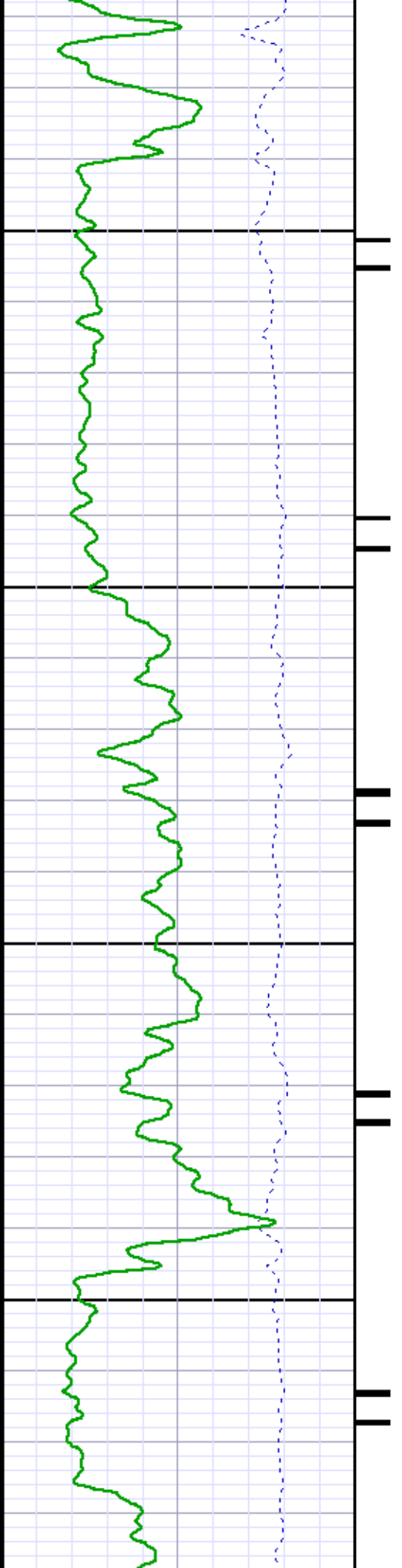
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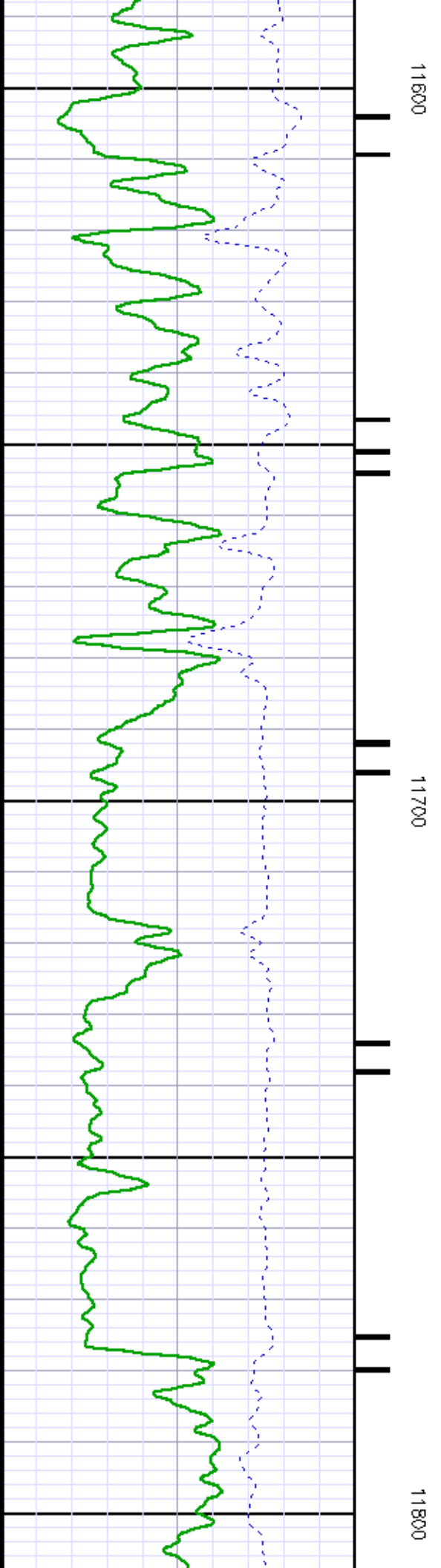
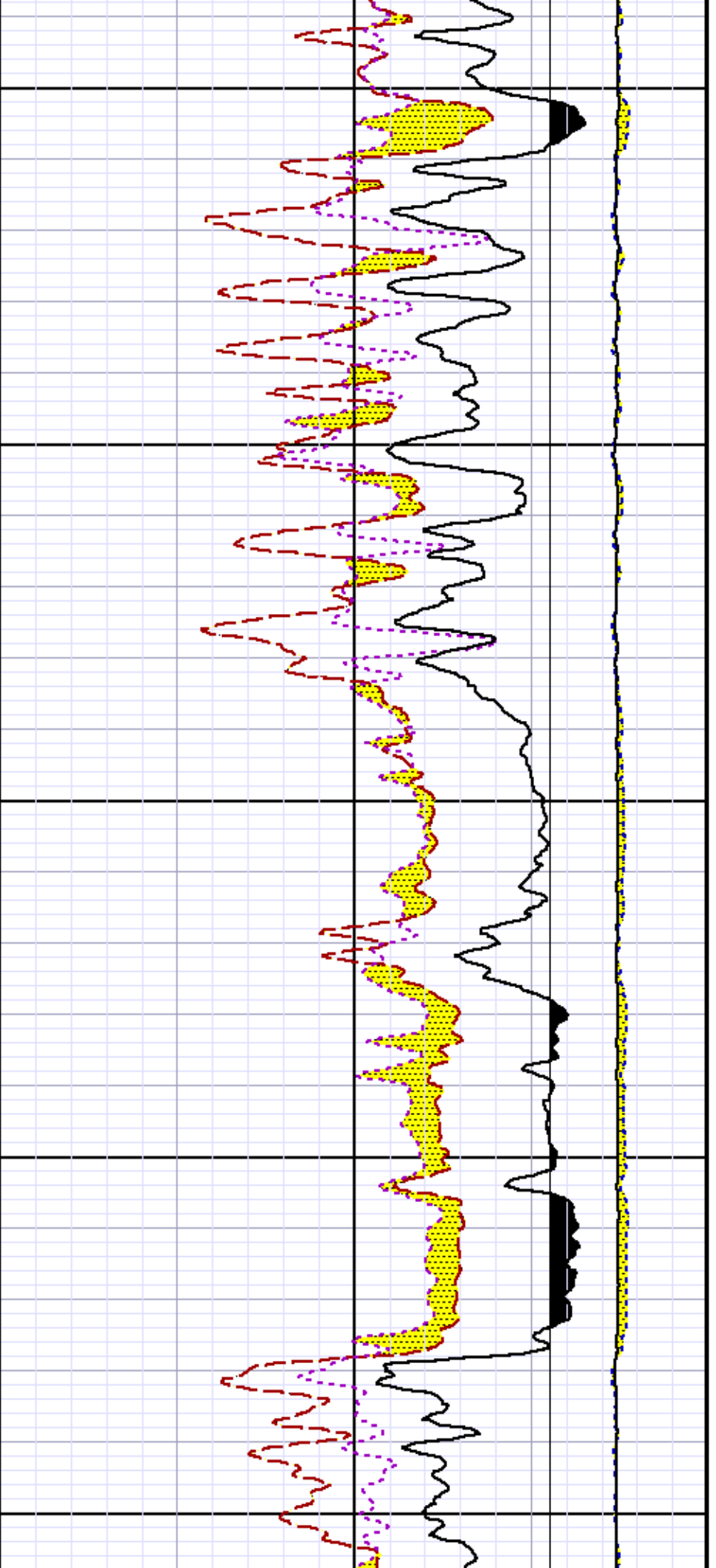


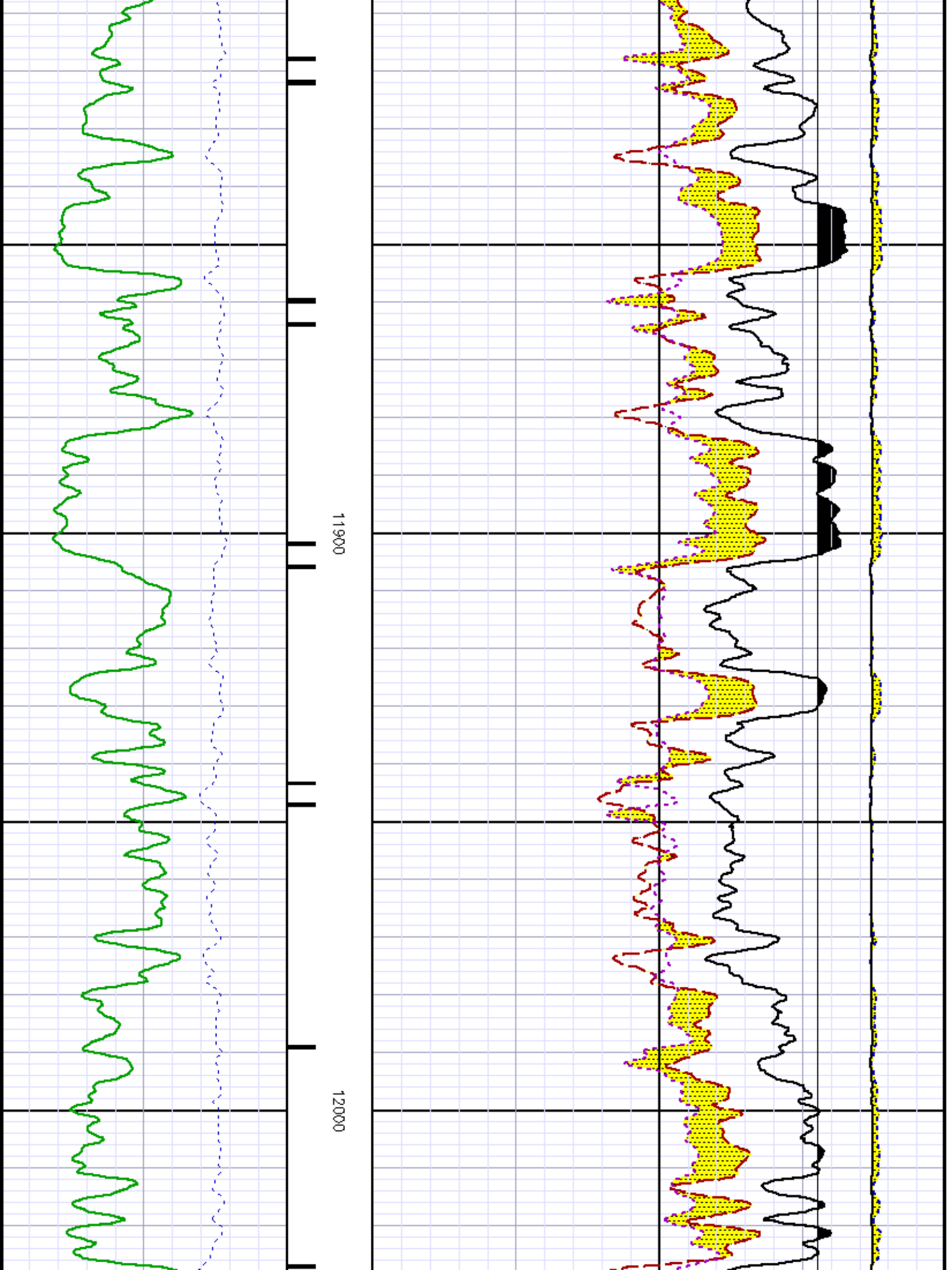


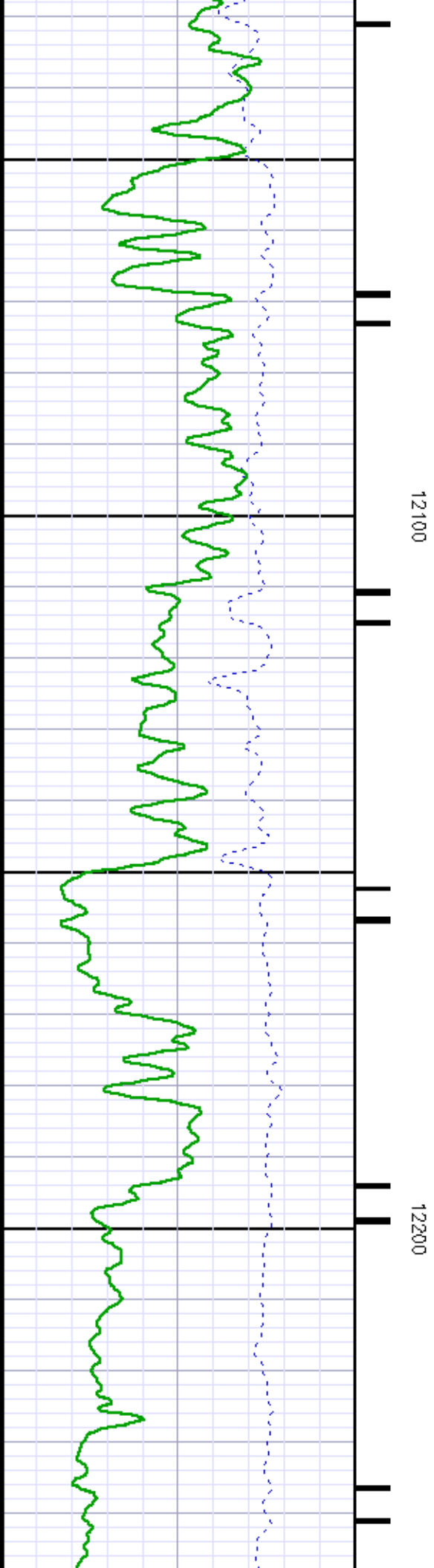
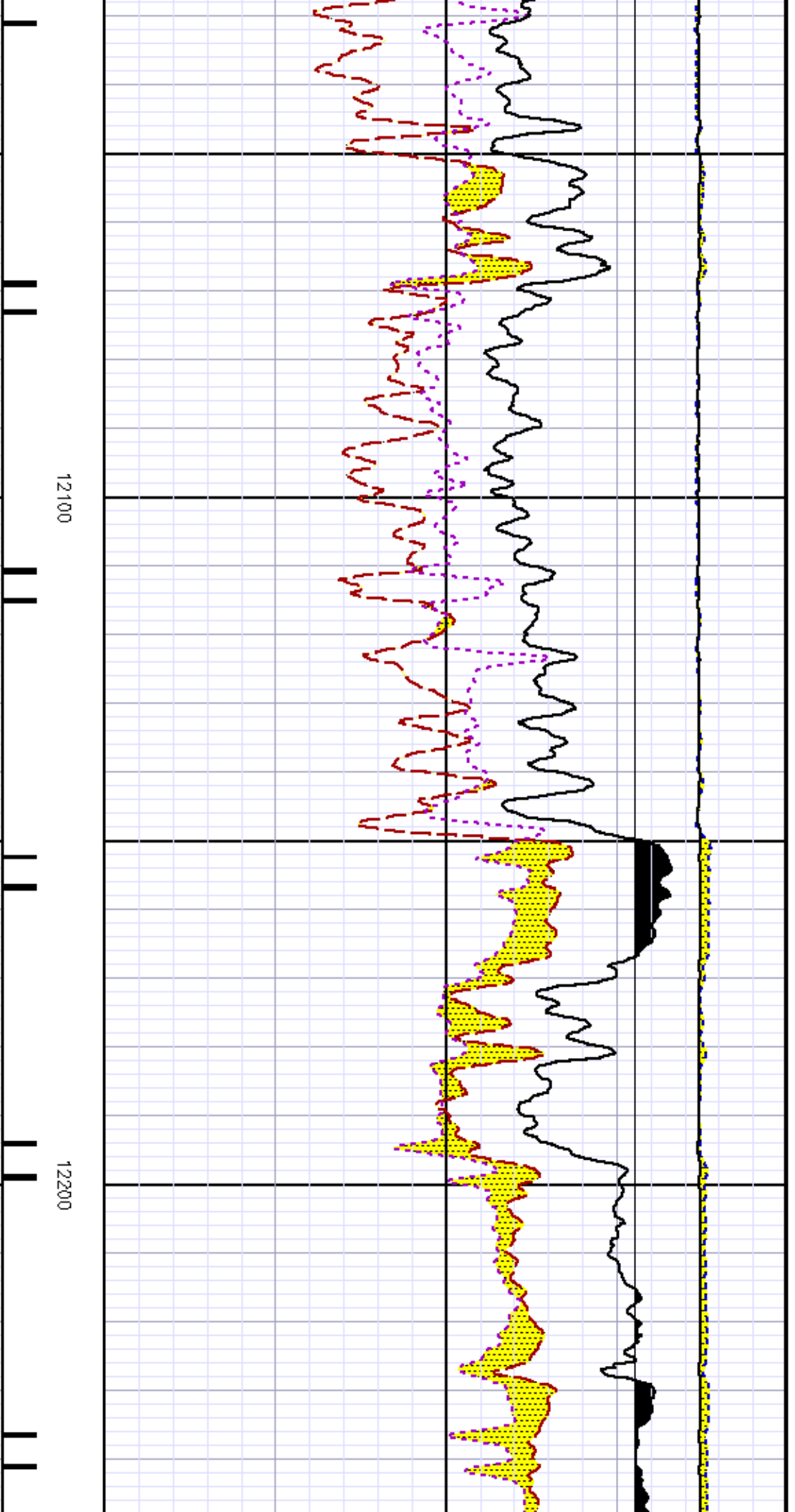
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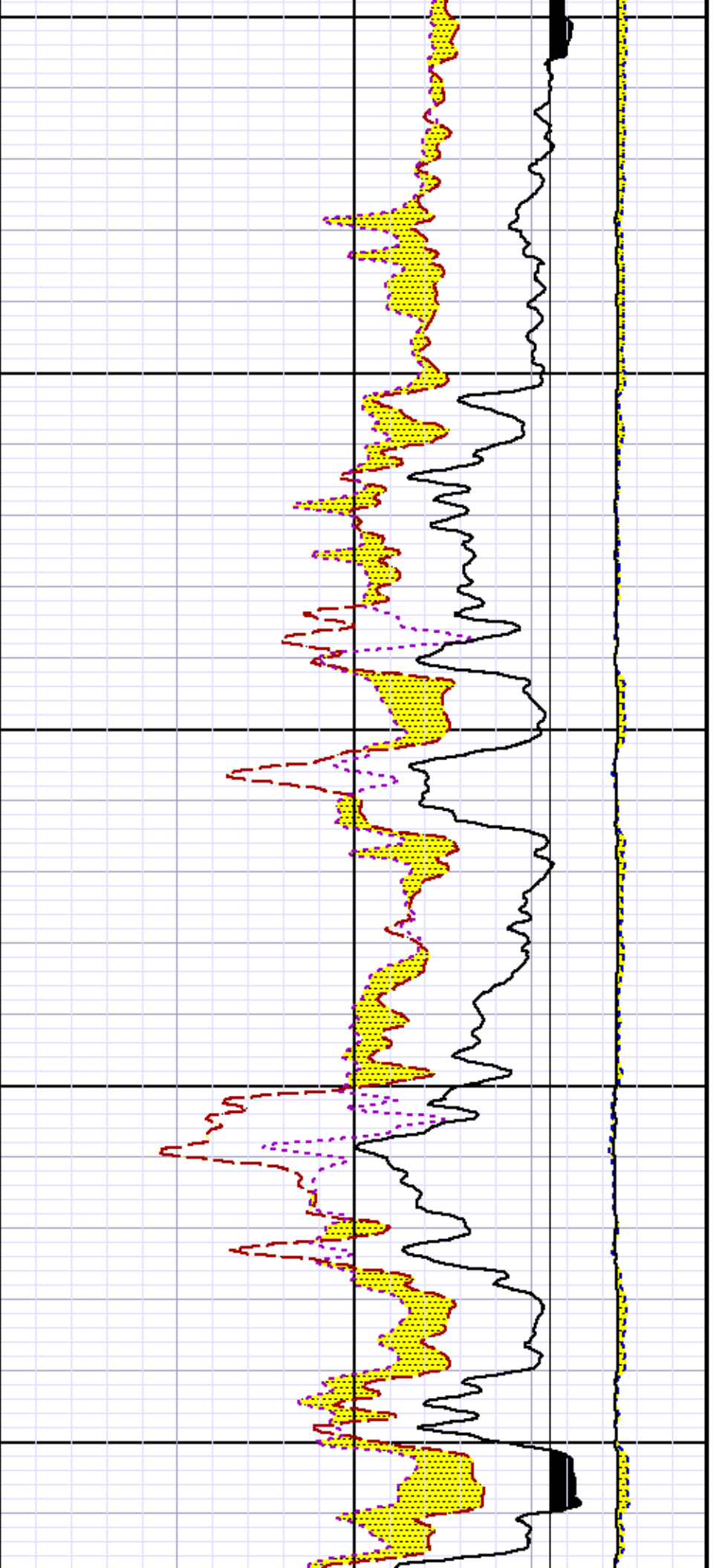
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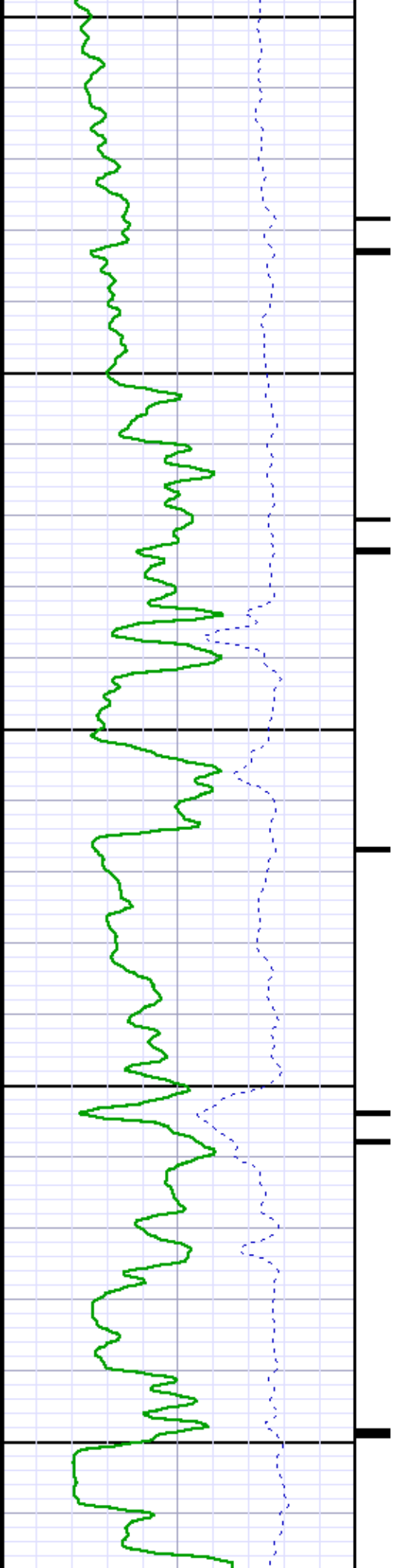


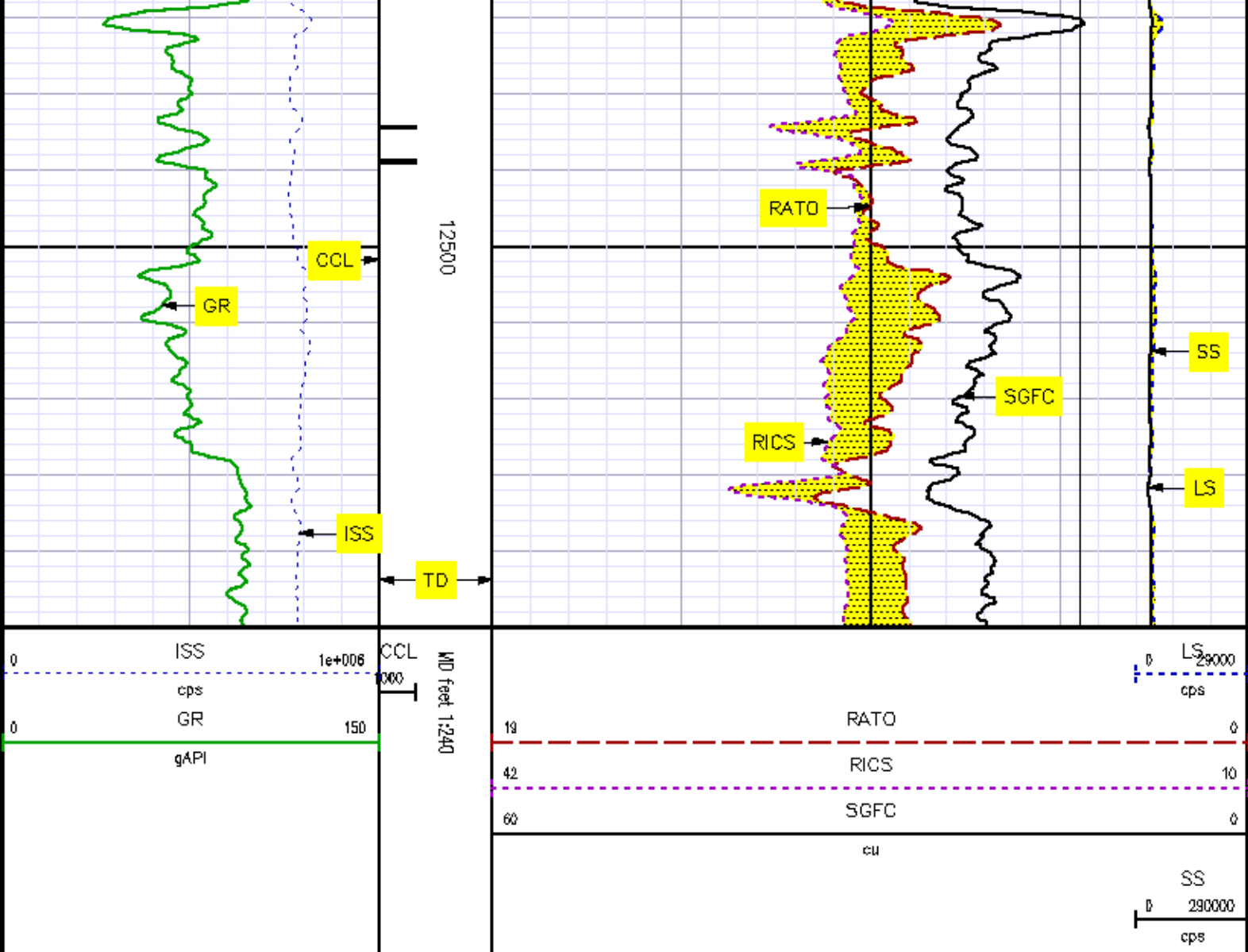




12300

12400





REPEAT SECTION

PNC 3-D MODE

SPL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
PNC Porosity	Borehole	Cased		9379.756	9779.975
PNC Porosity	Borehole Size	6.125	inch	9379.756	9779.975
PNC Porosity	Casing Size	4.500	inch	9379.756	9779.975
PNC Porosity	Gas Filled	Non Gas Filled		9379.756	9779.975
PNC Porosity	Medium	Sandstone		9379.756	9779.975

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
8248EA	-15.470	FLTM					
8248EA	-13.470	OCL CHV					
8262XA	-10.189	GR					
8281XA	-0.662	HVC3Q0	SEQ3	AMA3	AML3	BKX	CXS
		CPT3Q0	CPT3Q2	CPT3Q3	CPT3Q4	ET3	IXS
		MCS3	MCS3Q0	QCAL3	RGN3	RICX	SDA3
		SDL3	SGA3	SGL3	STA3	XS	ASPEC3
		AMB3	AMF3	CHF3	IXSC	IXSN	RAT023
		RICXC	RIN13C	RIN23	RIN23C	SD3D	SG3D
		SGB3	SGF3	WDTH3	CXSR	IXSR	XSR
		RICXR					
8281XA	-0.250	HVC2Q0	SEQ2	AMA2	AMB2	AMF2	AML2
		BKL	CHF2	CLS	CPT2Q0	CPT2Q2	CPT2Q3
		CPT2Q4	ET2	ILS	LS	MCS2	MCS2Q0
		QCAL2	RGN2	RICL	RONE23	RTW023	SDA2
		SDL2	SGA2	SGB2	SGF2	SGK2	SGL2
		STA2	ASPEC2	ILSC	ILSN	WDTH2	RICLC
		CLSR	ILSR	LSR	RICLR		
8281XA	0.000	CPRS	HVC1Q0	WV	SEQ	SEQ1	AMA1
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		CSS	CORB	CORF	CPT1Q0	CPT1Q2	CPT1Q2A
		CPT1Q2B	CPT1Q2C	CPT1Q3	CPT1Q4	CPT1Q5	ET1
		G1	G2	GE1S	GE2S	ISS	MCS1
		MCS1Q0	QA1	QCAL1	QM1	RAT0	RAT013
		RBOR	RGN1	RICS	RIN	RONE	RPOR
		RTW0	RIN13	RONE13	RTW013	SALB	SC1
		SDA1	SDL1	SGA1	SGB1	SGBC	SGE1
		SGF1	SGFC	SGK1	SGL1	SS	SS2
		STA1	PD1S	PD2S	PD3S	WD1S	WD2S
		WD3S	DG1S	DG2S	DG3S	PD1M	PD2M
		PD3M	MD1M	MD2M	MD3M	DG1M	DG2M
		DG3M	MVS	WA	WVM	FILV	IAM
		TA	PVM	PVS	IAS	SSTAT	QPD1
		QPD2	QPD3	QMD1	QMD2	QMD3	QDG1
		QDG2	QDG3	QMA	QTA	QFILV	QMV
		QPV	QIA	DERR	DCNT	QPK1	QSA1
		PKS1	ASPEC1	HOC	FE2XC	ISSC	RINC
		ISSN	RDEN	WDTH1	RICSC	CSSR	G1R
		G2R	ISSR	SSR	SS2R	RATOR	RAT013R
		RBORR	RICSR	RINR	RIN13R	RONER	RPORR
		RTWOR					
SYSTEM	0.000	TEN	TTEN				

Created by : RPM9, v5.0.0.0

Plotted by : PlotMgr, v5.4.504

Company : EXXON MOBIL PRODUCTION COMPANY

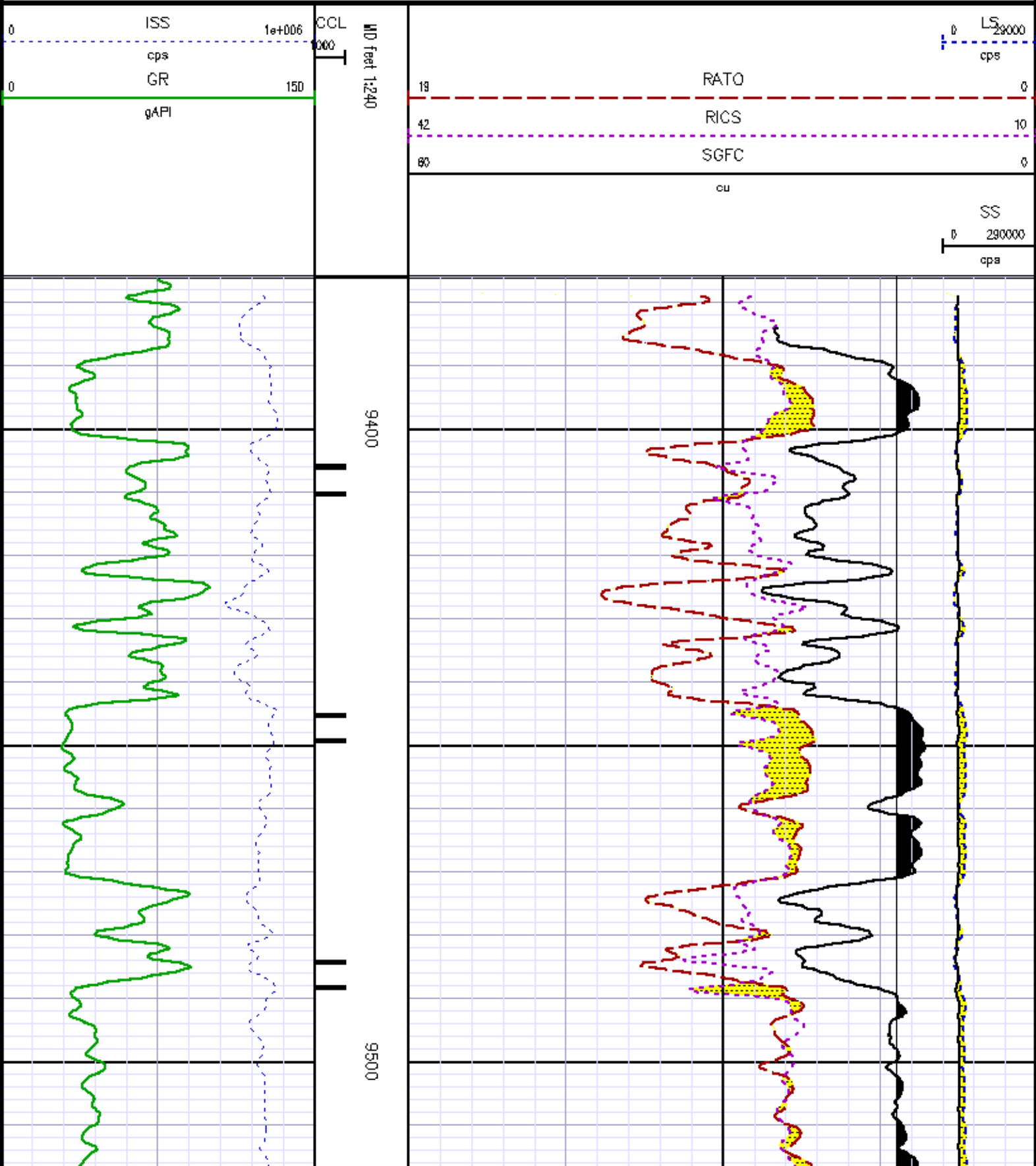
Well : PCY 297-11-C6

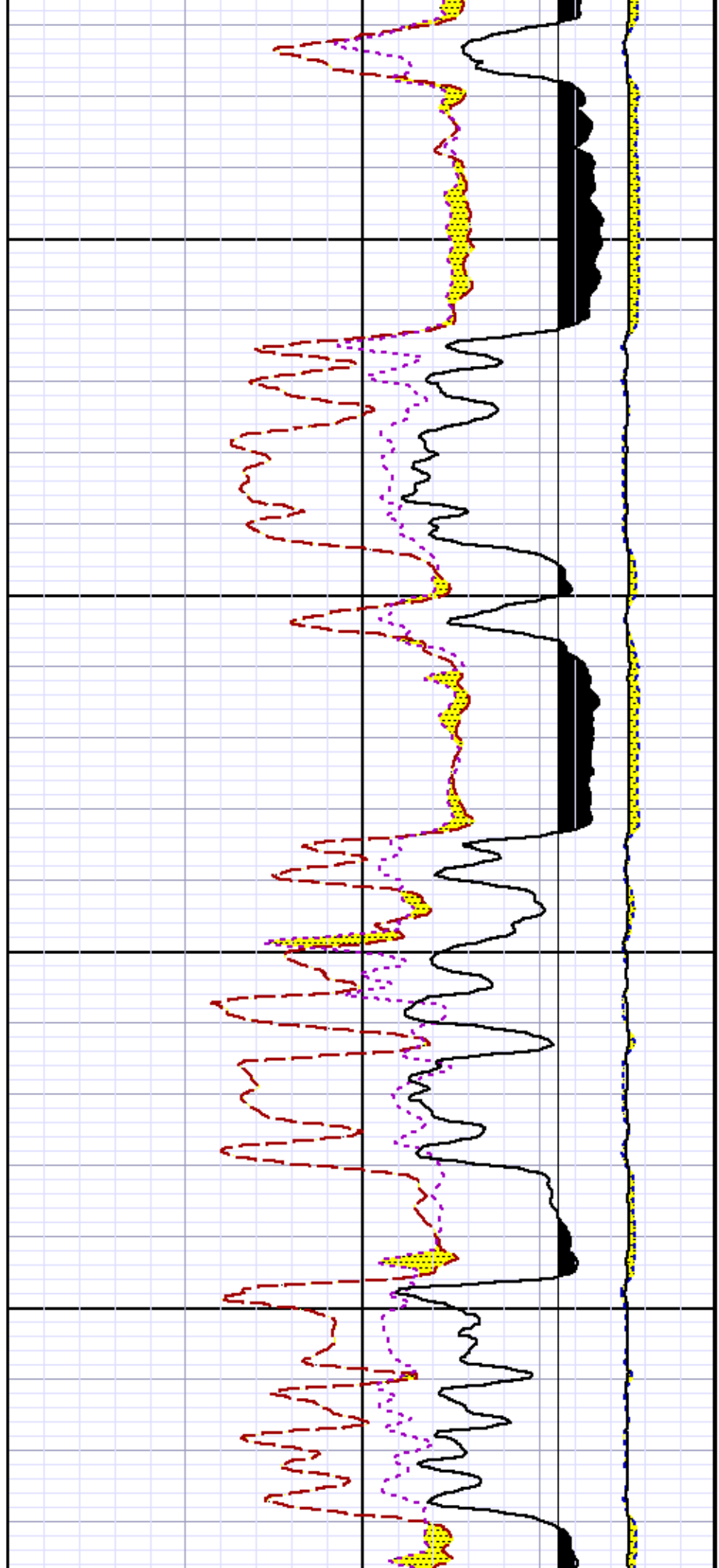
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Mode : PlotMgr 5.4.504

Interval : 9376.00 - 9776.00 feet UP

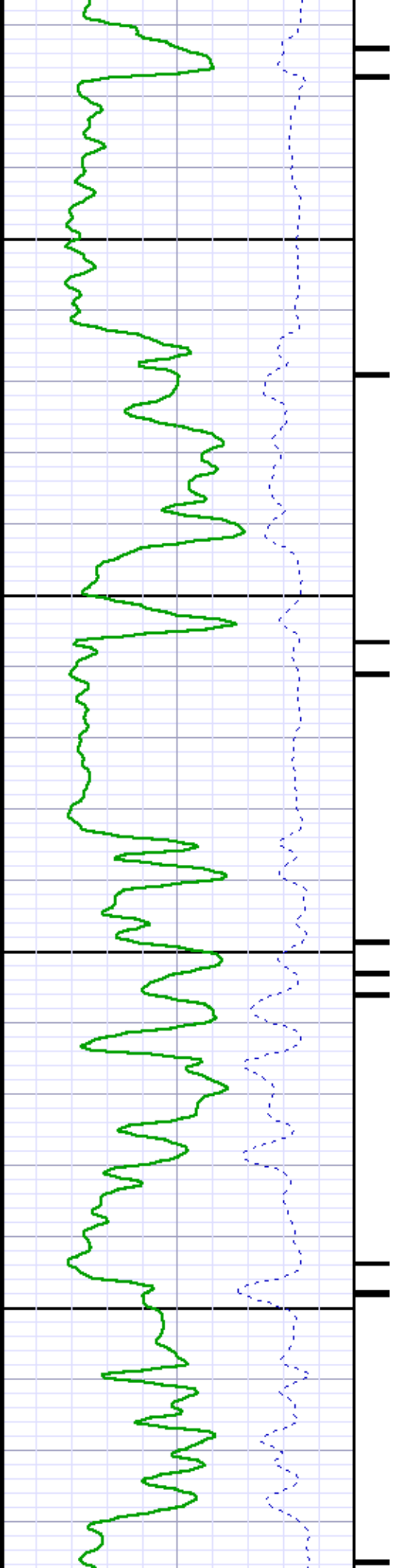
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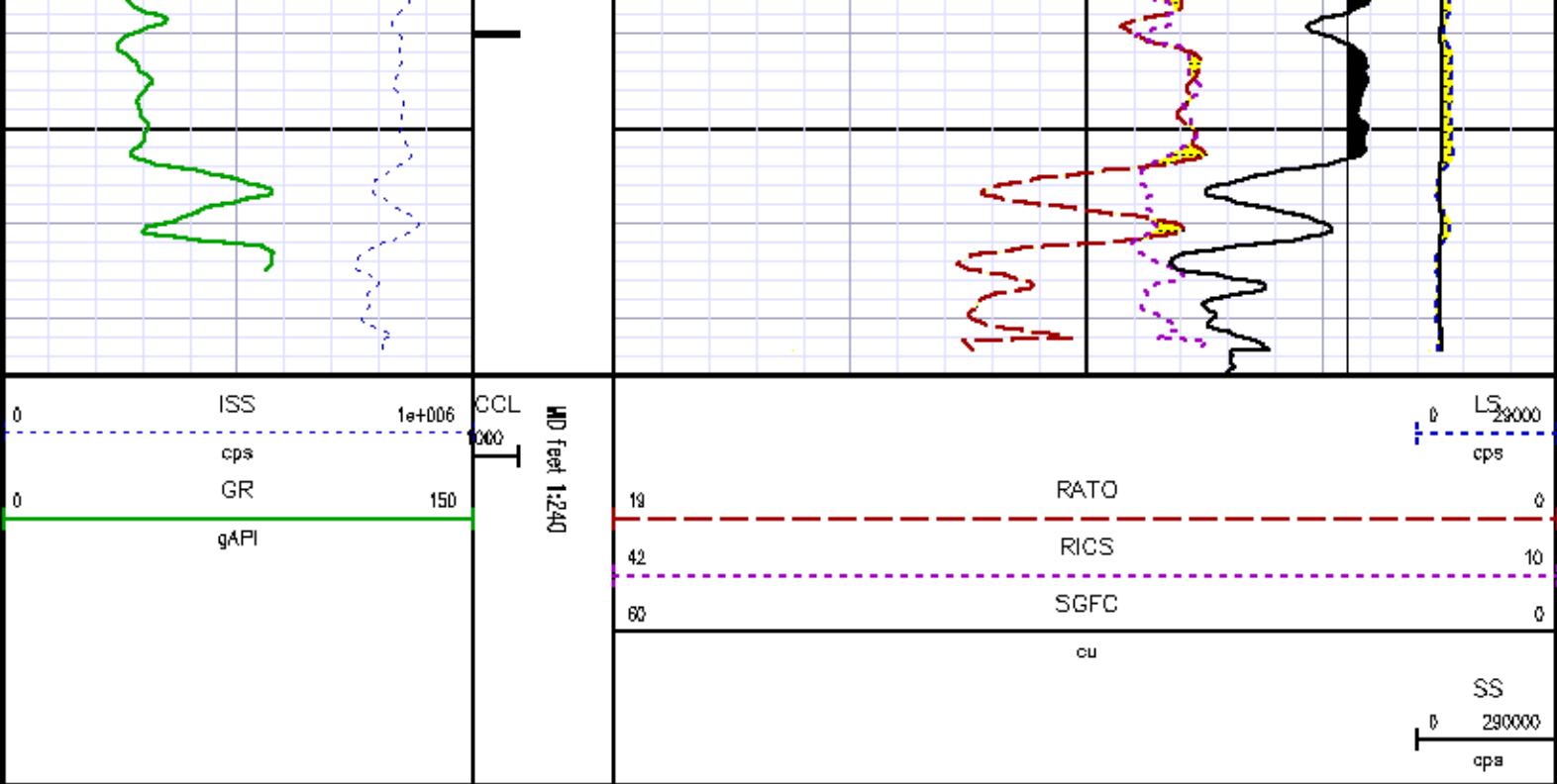




0096

9700





CALIBRATION SUMMARY

GAMMA RAY

Calibration File: C:\case\calver\GR\270J1.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED:		Fri Jul 02 15:35:21 2010		TOOL SERIES:		B262XA		ASSET:		270		SEQ:		J1	
Calibrator #	Background [cps]	Calibrator On [cps]		Multiplicative	Background [api]	Calibrator On [api]		Differential [api]							
52K DA856	104.42	452.22		0.518	54.04	234.04		180.00							

Verification File: C:\case\calver\GR\270J1.VP

PRIMARY VERIFICATION

DATE/TIME PERFORMED:		Fri Jul 02 15:38:55 2010		TOOL SERIES:		B262XA		ASSET:		270		SEQ:		J1	
Calibrator #	Background [cps]	Calibrator On [cps]		Multiplicative	Background [api]	Calibrator On [api]		Differential [api]							
52K DA856	105.42	447.24		0.518	54.56	231.47		176.91							

Calibration File: C:\case\calver\PNC\251J1.cal

PNC 3D CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Jul 12 06:56:57 2010 TOOL SERIES: B2B1XA ASSET: 251 SEQ: J1

Calibrator #

SHOP SHOP

Source #

B2B1AA 1014B47B

	ISS	Mtr Vlt (V)	SS Gain	LS Gain	XLS Gain	EA Temp (degF)	Sync Delay (usec)	RCAL
Raw Data	803457	123.00	2249.00	2215.00	2221.00	104.43	15.00	0.9659
Interpolated	1300000	143.80	2233.28	2206.14	2215.13			

	ISS	BKS	BKL	BKX	SGA1	SDA1	SGA2	SDA2
Raw Data	803457	6140.80	972.93	183.39	25.81	0.13	24.28	0.27
					25.35 26.15	0.00 0.20	23.60 24.80	0.00 0.40

	ISS	ILS	IXS	SS	SS2	LS	CSS	CLS
Raw Data	803457	165100.22	25774.21	94558.24	33603.46	8653.90	57438.74	13902.78
Fit Quality %		0.39	0.46	0.58	0.58	0.41	0.57	0.44

	ISS	RBOR	RIN ISS/ILS	RIN13 ISS/IXS	RICS ISS/CSS	RATO SS/LS	RTWO SS2/LS	RONE CSS/CLS
Raw Data	803457	1.44	4.87	31.17	13.99	10.93	3.88	4.13
		1.42 1.46	3.55 5.21	22.20 32.10	10.99 16.34	10.06 11.10	3.57 3.95	3.76 4.22
Fit Quality %		0.03	0.20	0.11	0.12	0.07	0.09	0.06
Reduced	1402203	1.44	4.87	31.21	14.01	10.93	3.88	4.13
		1.42 1.46	4.33 5.52	27.60 32.70	13.70 16.34	10.06 11.10	3.57 3.95	3.76 4.22

TOOL DIAGRAM

OTA SHORT CABLE HEAD

PCM POWER SUPPLY

Series 8250EA
Mnemonic PCM
Diameter 1.70"

30.92'

Diameter 1.70
Weight 18.00 lb
Length 3.86'
Temp Rating 350.00 °F

TELEMETRY / CCL

Series 8248EA
Mnemonic PCM
Diameter 1.70"
Weight 20.00 lb
Length 4.46'
Measure Point 1.00' CCL MP
Temp Rating 350.00 °F
Press Rating 15000.00 PSI

GAMMA RAY

Series 8262XA
Mnemonic GR
Diameter 1.70"
Weight 15.00 lb
Length 3.17'

RESERVOIR PERFORMANCE MONITOR

Series 8281XA
Mnemonic RPM
Diameter 1.70"
Weight 75.00 lb
Length 18.58'
Measure Point 9.49' SS DETECTOR
Measure Point 9.72' LS DETECTOR
Measure Point 12.68' XLS DETECTOR
Temp Rating 350.00 °F
Press Rating 20000.00 PSI

CCL MP 22.83'

GR MP 19.29'

XLS DETECTOR 12.78'

LS DETECTOR 9.80'
SS DETECTOR 9.58'

0.00'

Total Length: 30.92'
Total Weight: Not Available
Max Diameter: 0' 1.70"



Company EXXONMOBIL PRODUCTION COMPANY
Well PCU 297-11C6
Field PICEANCE CREEK
County RIO BLANCO State COLORADO

File No: 1823
API No: 05103114720000

Location
SHL: 977' FNL & 886' FNL

Elevations

KB 8993.2 ft
DF 8992.2 ft
GL 8983 ft

SEC 11 TWP 2S RGE 97W

Baker Atlas

CASE