



Baker Atlas

RESERVOIR PERFORMANCE MONITOR

File No:	Company	EXXONMOBILE PRODUCTION COMPANY	
1727	Well	FRU 197-3349	
API No:	Field	PICEANCE CREEK	
00103114000000	County	RIO BLANCO	State
			COLORADO
Location		Other Services	
SHL: 980' FSL & 2366' FEL		BOND LOG	
SEC 33 TWP 1S RGE 97W			
Permanent Datum	GL	Elevation	Elevations
Log Measured From	KB	29.4 ft	KB 6417.4 ft
Drill Measured From	KELLY BUSHING		DF 6416.4 ft
			GL 6388 ft

Date	23 APR 2010	
Run	ONE	
Service Order	589777	
Depth Driller	12185 ft	
Depth Logger	12130 ft	
Bottom Logged Interval	12130 ft	
Top Logged Interval	2650 ft	
Time Started	09:00	
Time Finished	22:30	
Operator Rig Time	13.5 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	23 APR 2010	
Equipment No.	4271	VERNAL, UT.
Recorded By	J. OSTLER	
Witnessed By	MR. MIKE ROBERSON	

- FOLD HERE

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
9.875 in	SURFACE	8507 ft
8.125 in	SURFACE	12185 ft

Casing Record				
Size	Weight	Grade	From	To
7 in	28 lbm/ft	P-110	SURFACE	8507 ft
4.5 in	15.1 lbm/ft	P-110	SURFACE	12185 ft

Remarks

LOG WAS TIED INTO A BAKER ATLAS BOND LOG
WELL WAS LOGGED IN PNC 3-D MODE
SHORT JOINT TOPS AT 8082', 7106', 8123', 9128', 10186', 11135'

Equipment Data				
Run	Trip	Tool	Series Number	Serial Number

1	1	RPM	8281FA	UNKIN	FREE
1	1	RPM	8281PA	565	FREE
1	1	RPM	8281EA	640	FREE
1	1	GR	8262XA	270	FREE
1	1	TEL/OCL	8248EA	608	FREE
1	1	PCW	8250EA	851	FREE

MAIN SECTION

PNC 3-D MODE

SPL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
PNC Porosity	Borehole	Cased		2814.250	12169.943
PNC Porosity	Borehole Size	9.875	Inch	2814.250	8507.000
PNC Porosity	Borehole Size	6.125	Inch	8507.000	12169.943
PNC Porosity	Casing Size	7.000	Inch	2814.250	8507.000
PNC Porosity	Casing Size	4.500	inch	8507.000	12169.943
PNC Porosity	Gas Filled	Non Gas Filled		2814.250	8507.000
PNC Porosity	Gas Filled	Non Gas Filled		8507.000	12169.943
PNC Porosity	Matrix	Sandstone		2814.250	12169.943

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	RICK	SDA3
		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					

8281XA

-0.250

BKL	CHF2	CLS	CPT2Q0	CPT2Q2	CPT2Q3
CPT2Q4	ET2	ILS	LS	MCS2	MCS2Q0
QCAL2	RGN2	RICL	RONE23	RTWQ23	SDA2
SDL2	SGA2	SGB2	SGF2	SGK2	SGL2
STA2	ASPEC2	ILSC	ILSN	WDTH2	RICLC
CLSR	ILSR	LSR	RICLR		
GPRS	HVC1Q0	WV	SEQ	SEQ1	AMA1
AMB1	AWE1	AMF1	AML1	BKS	CHF1
CSS	COORB	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	MD1S	MD2S
MD3S	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 : RPMB, v5.3.1.0

Plotted by : PlotMgr, v5.4.5D4

Company : EXXONMOBILE PRODUCTION COMPANY

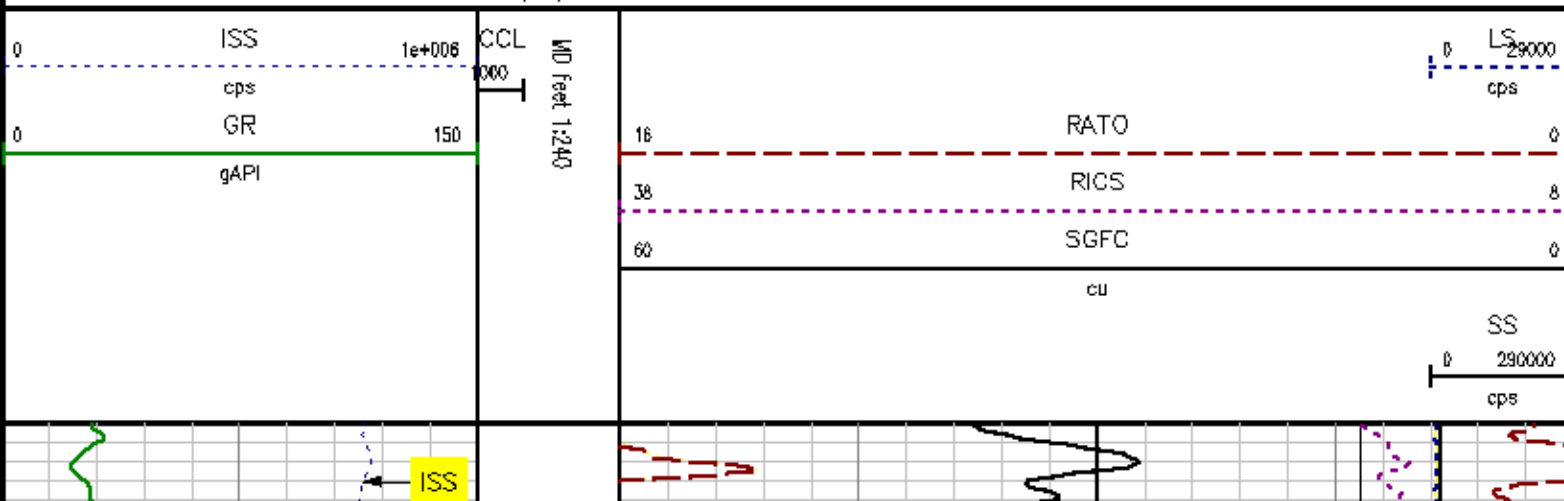
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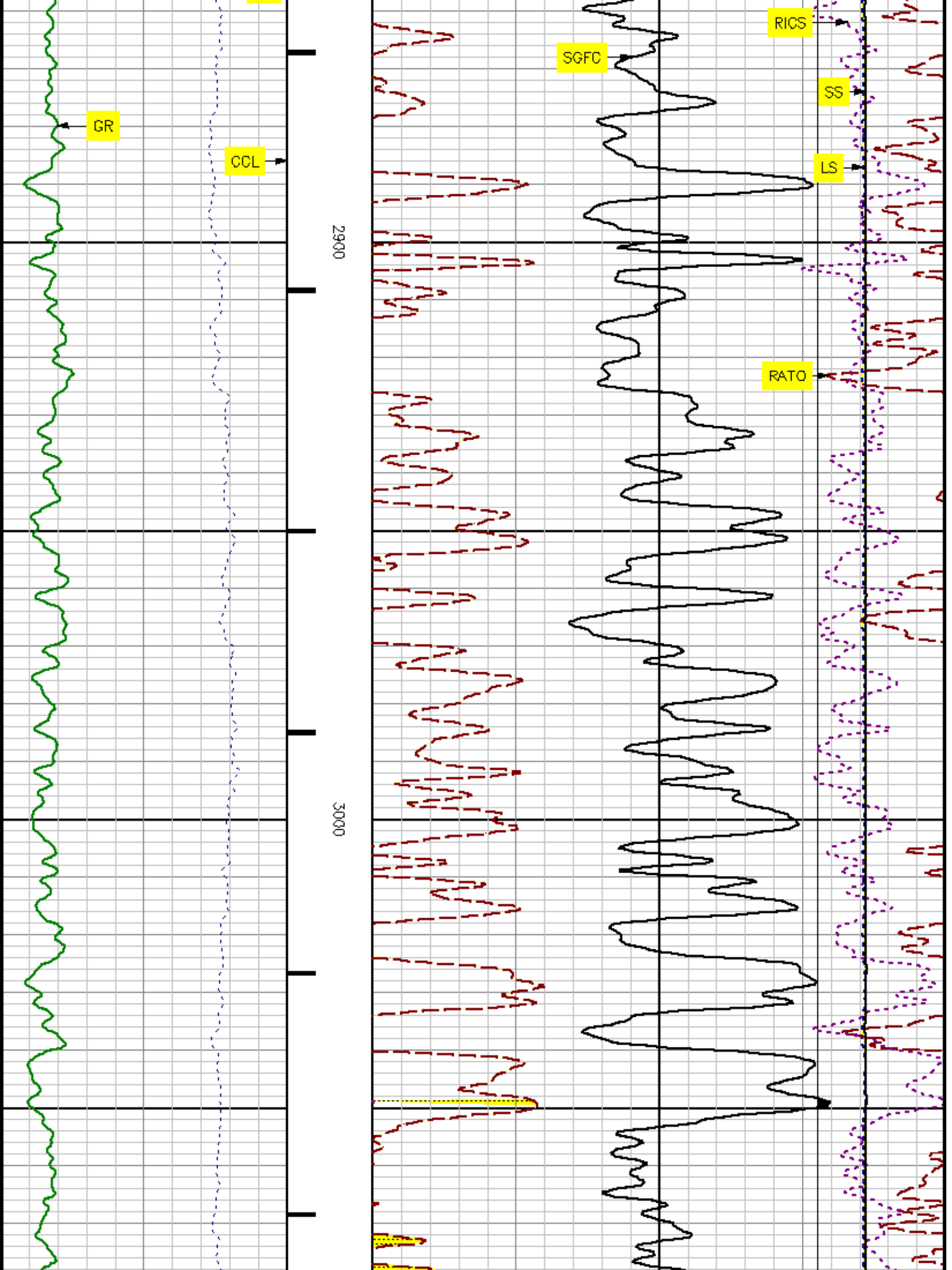
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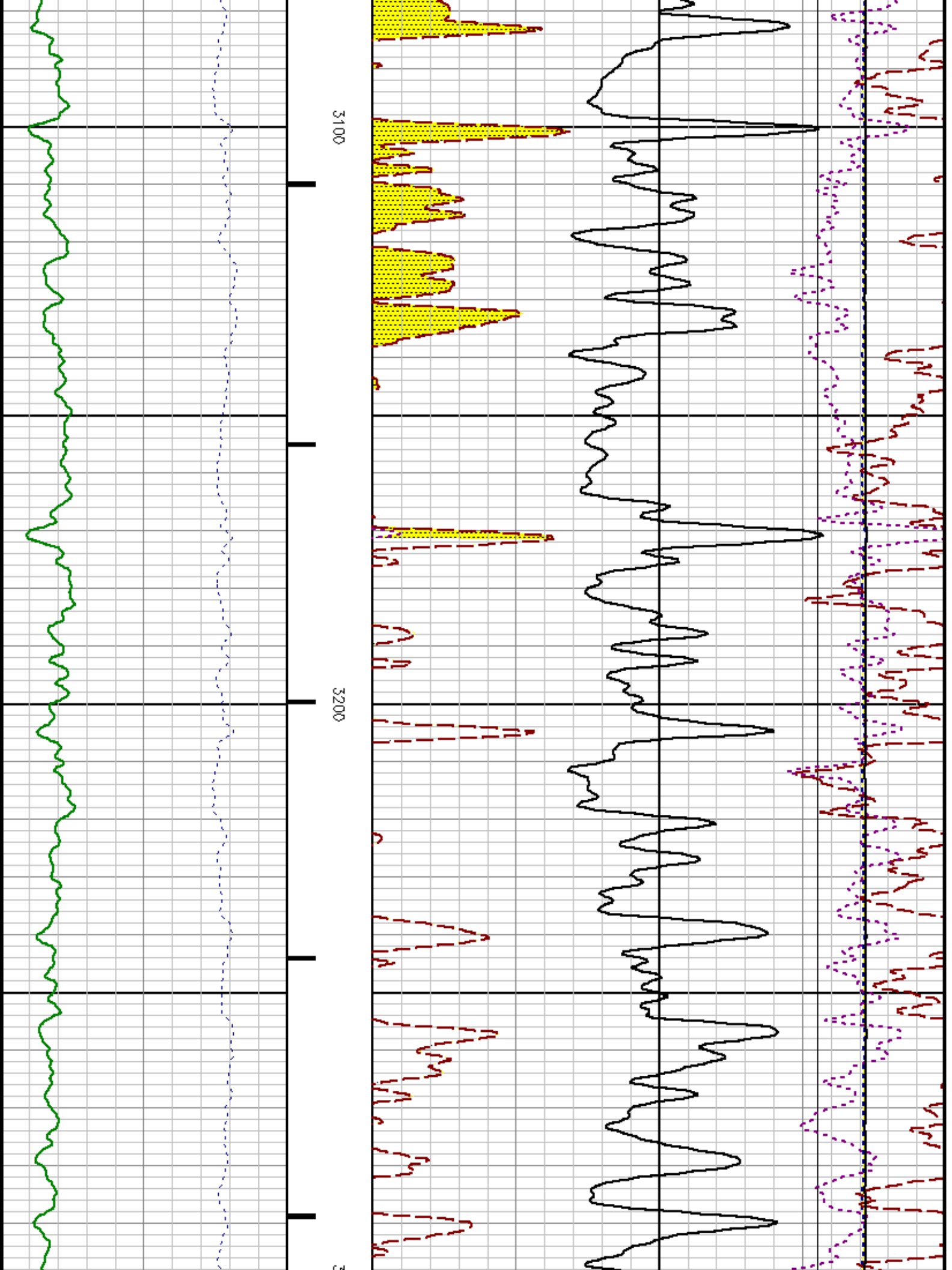
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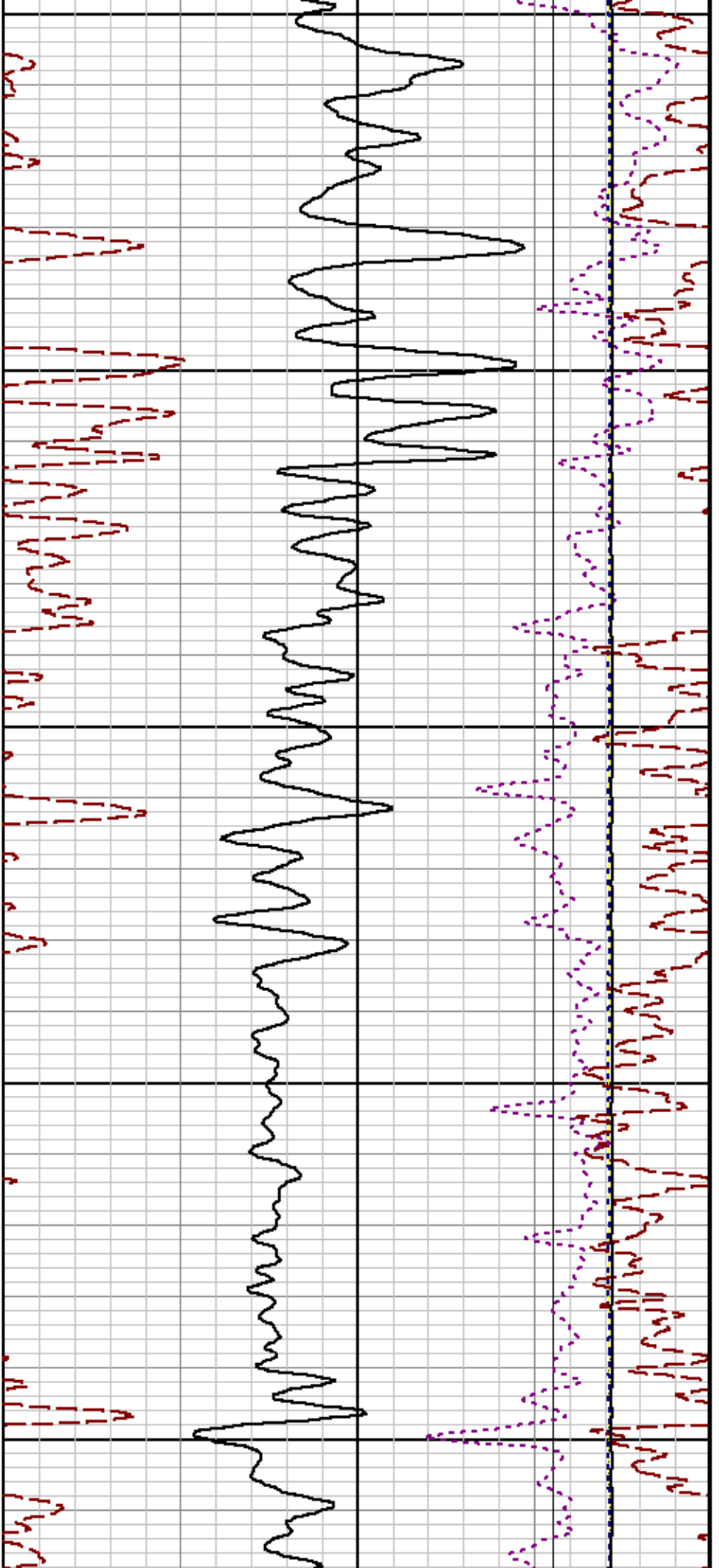
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Created : 4/23/2010 10:57:07 PM





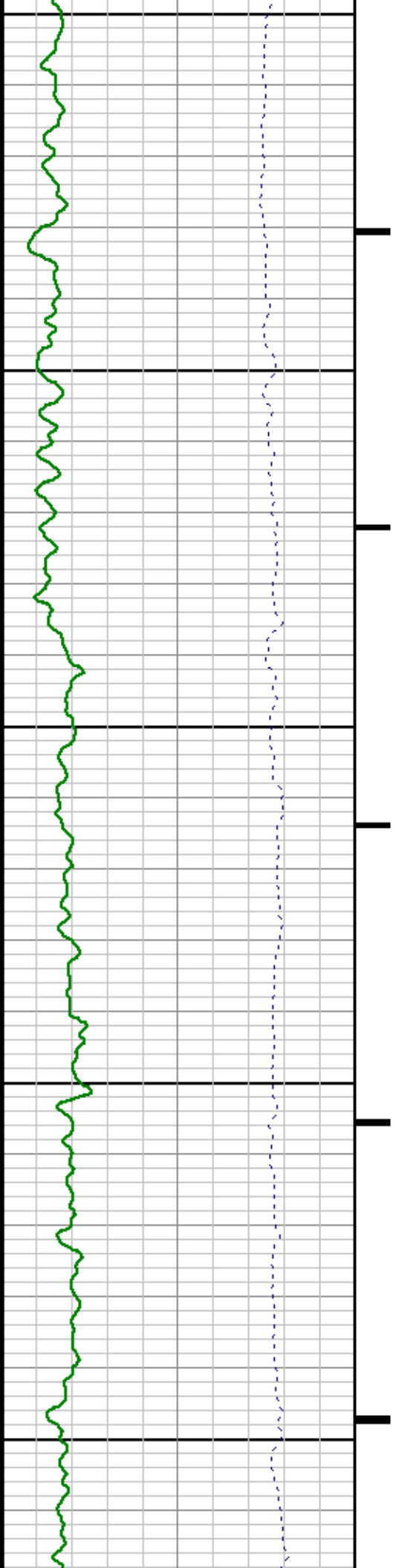


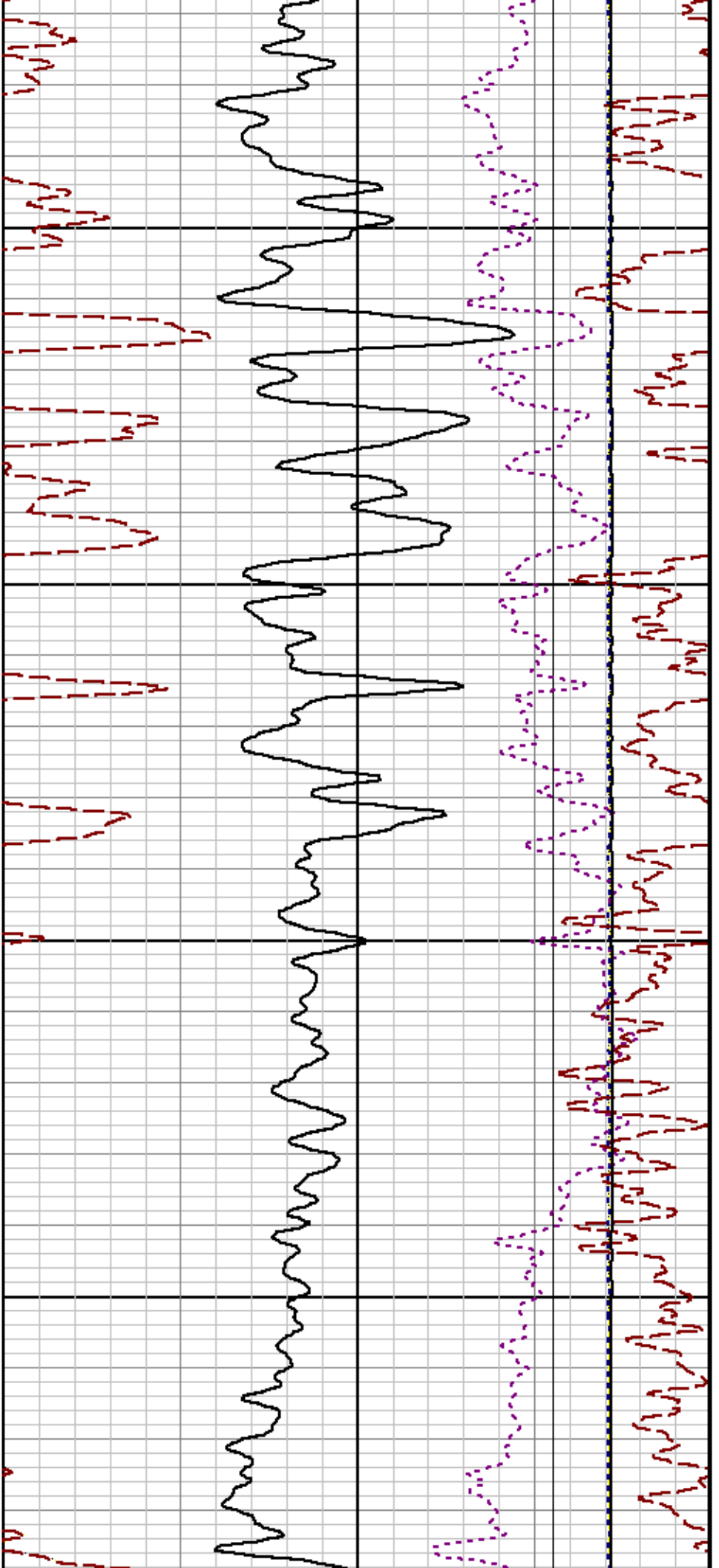


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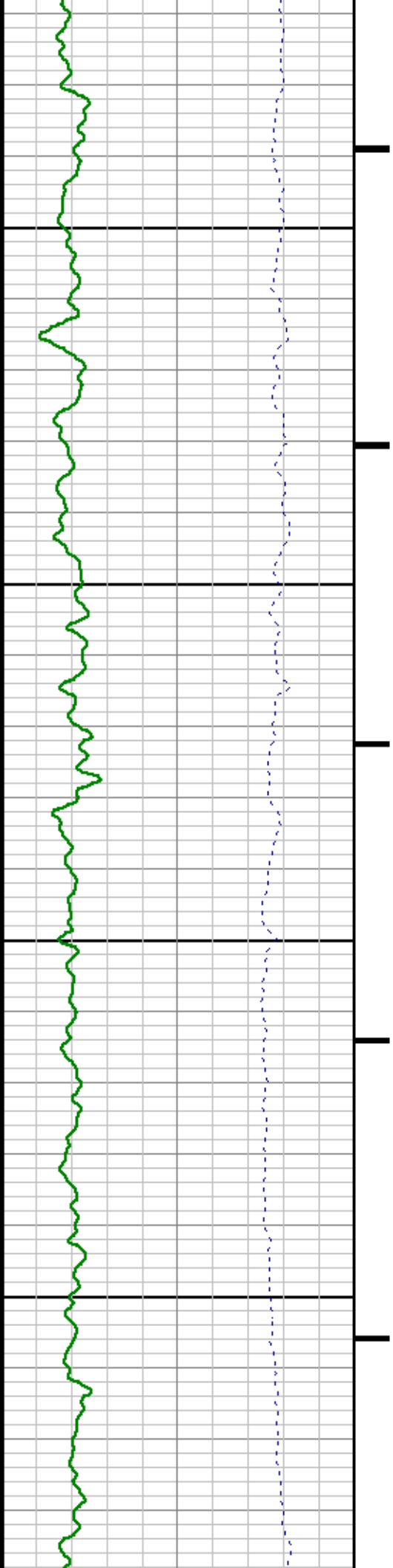
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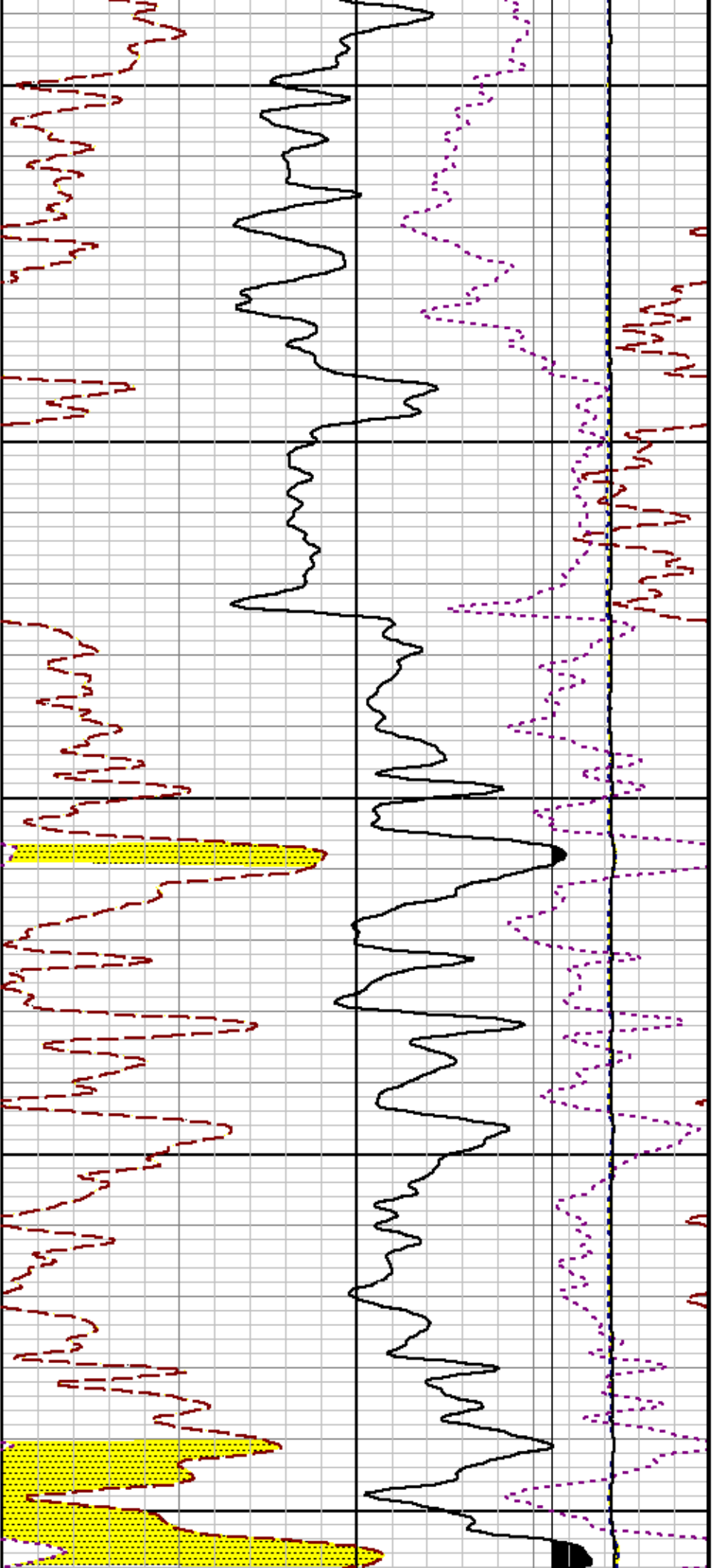




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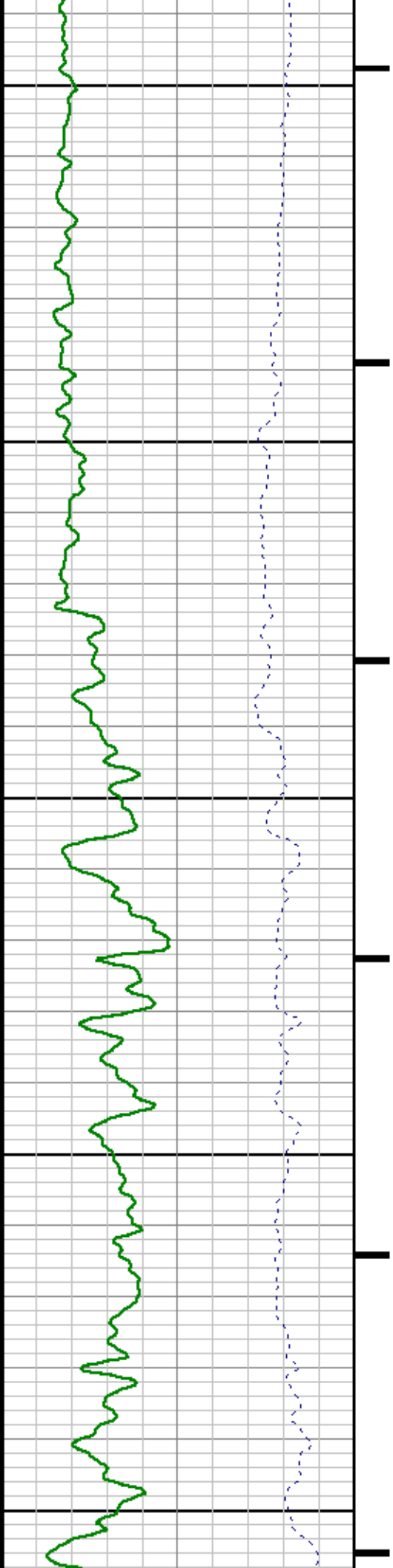
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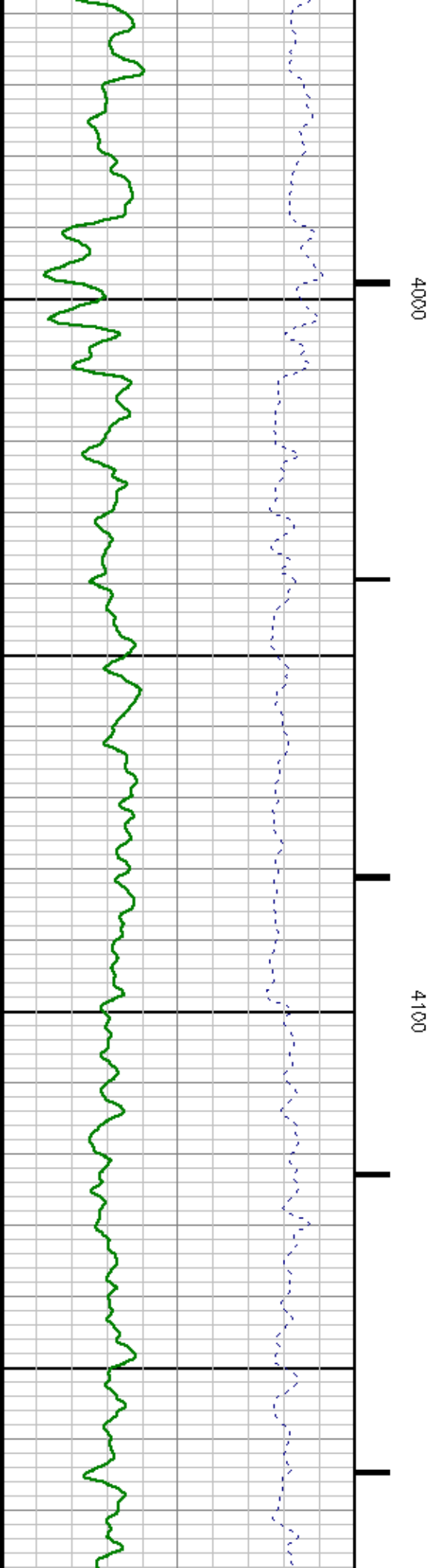
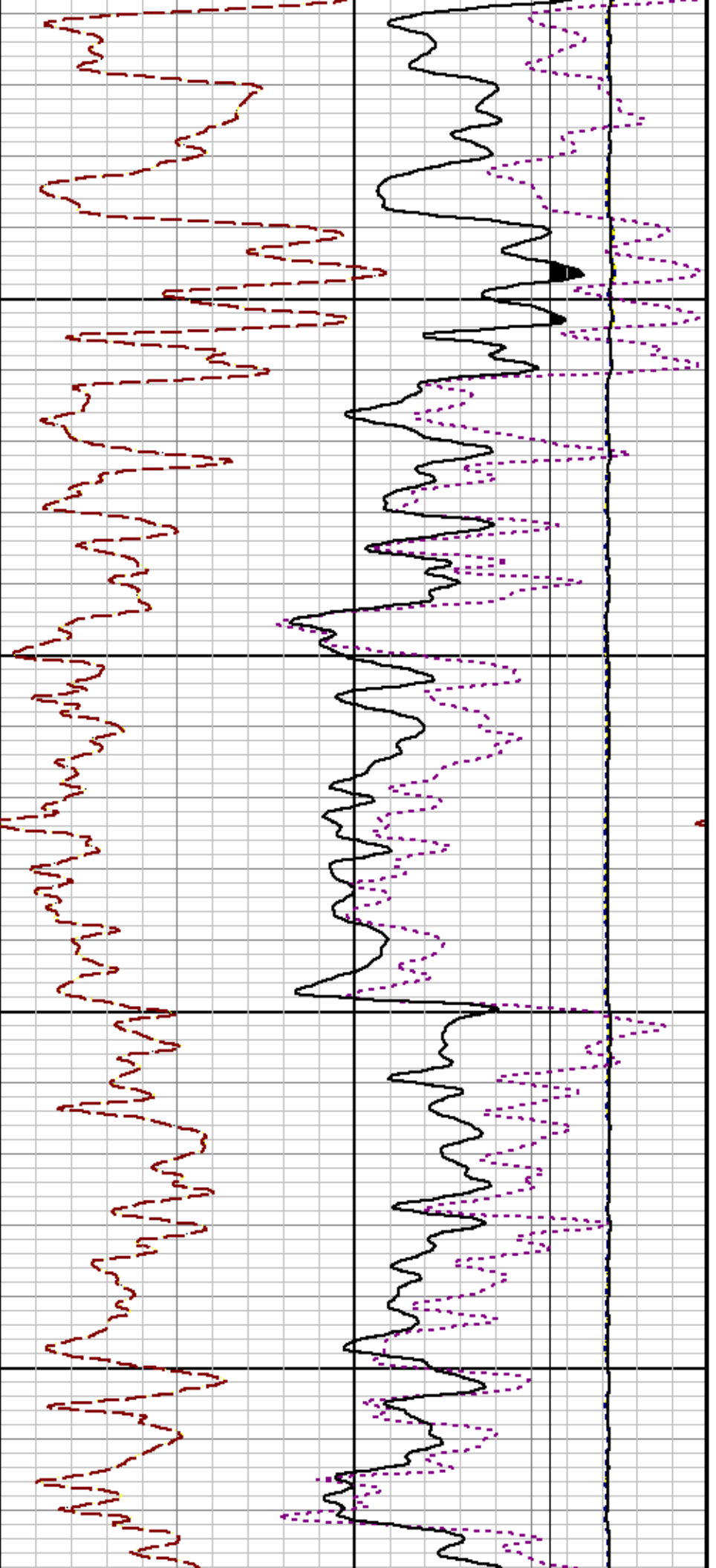


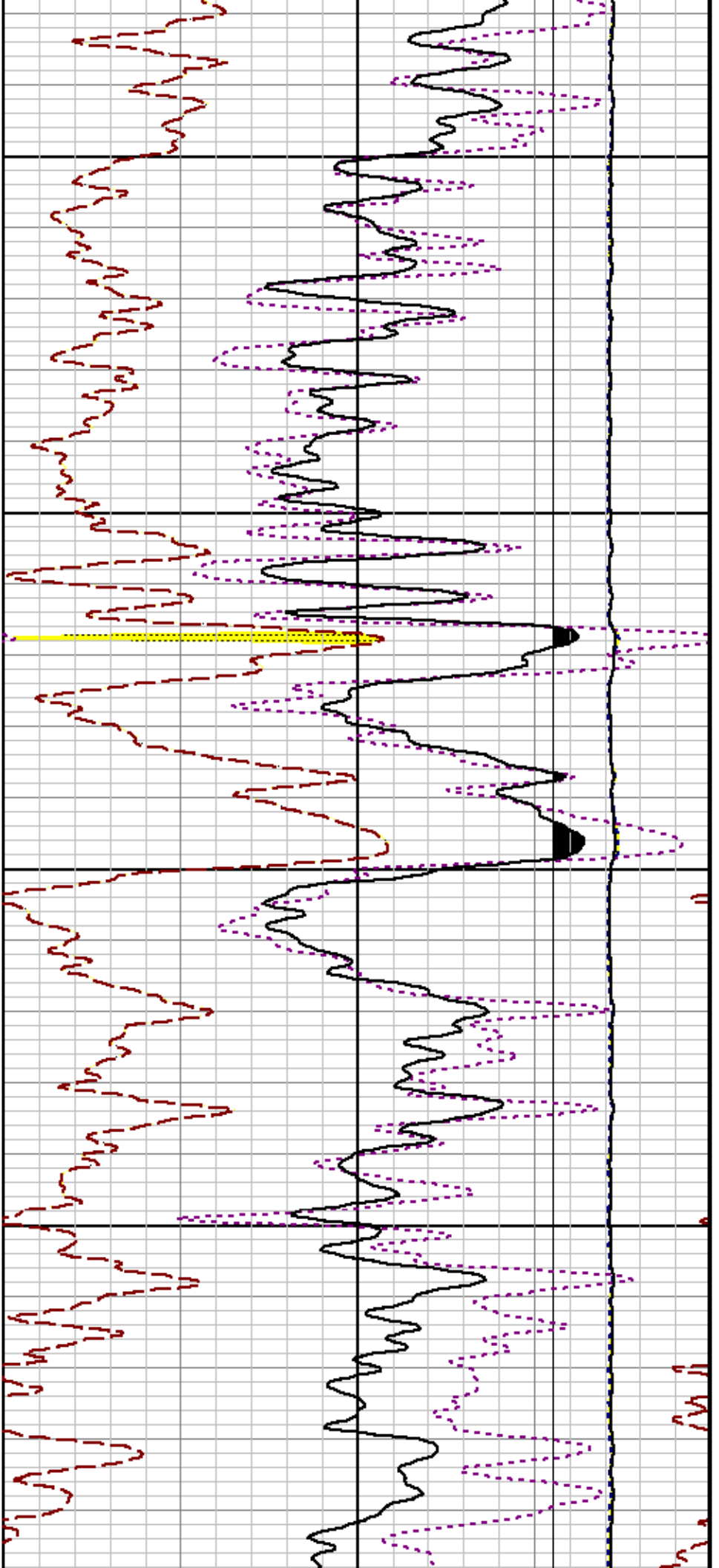


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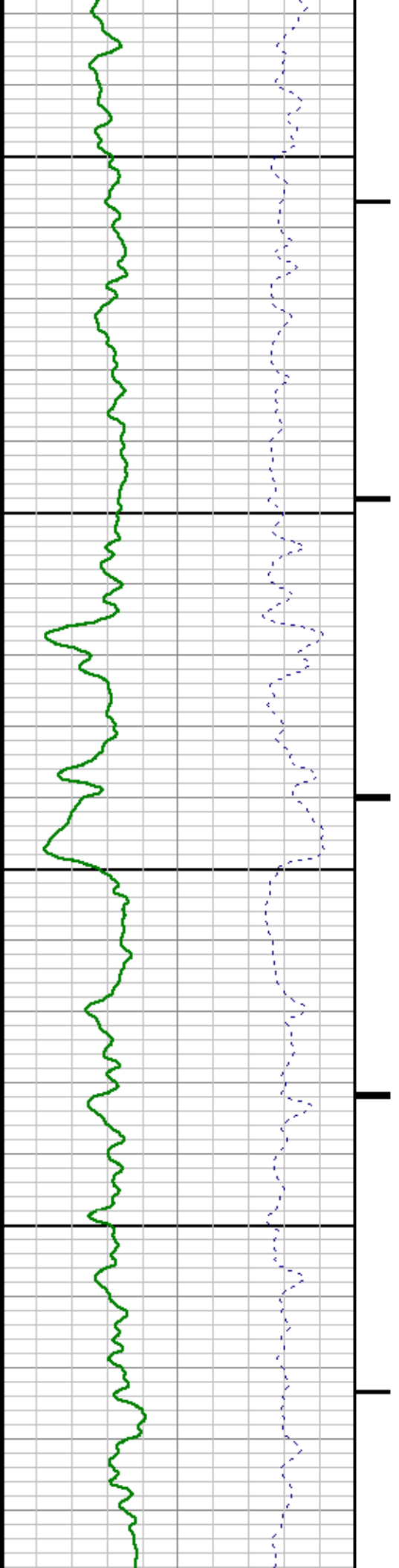


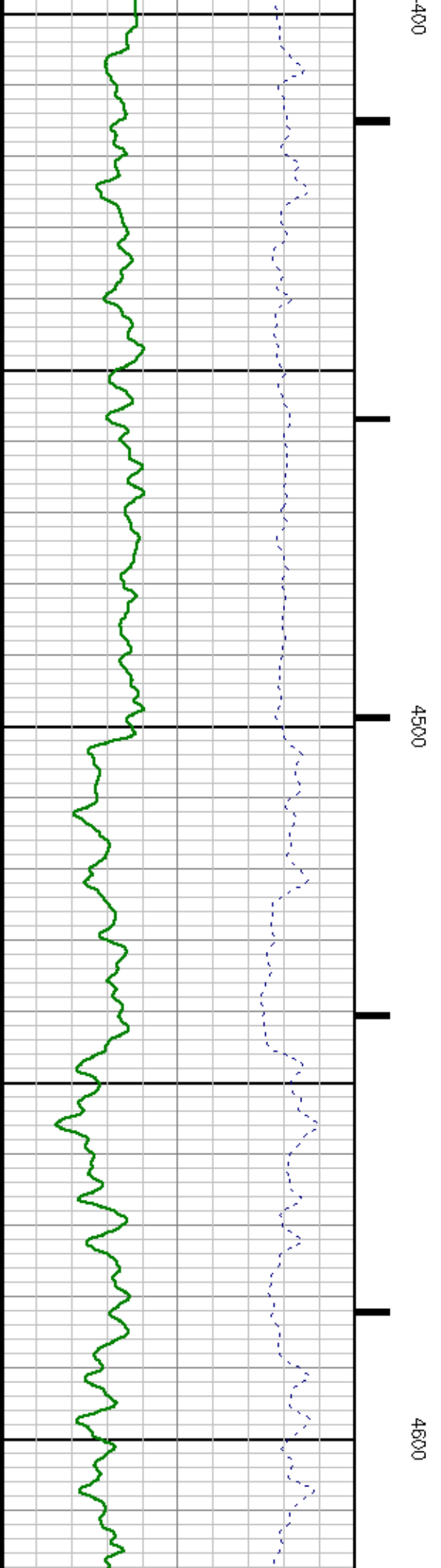
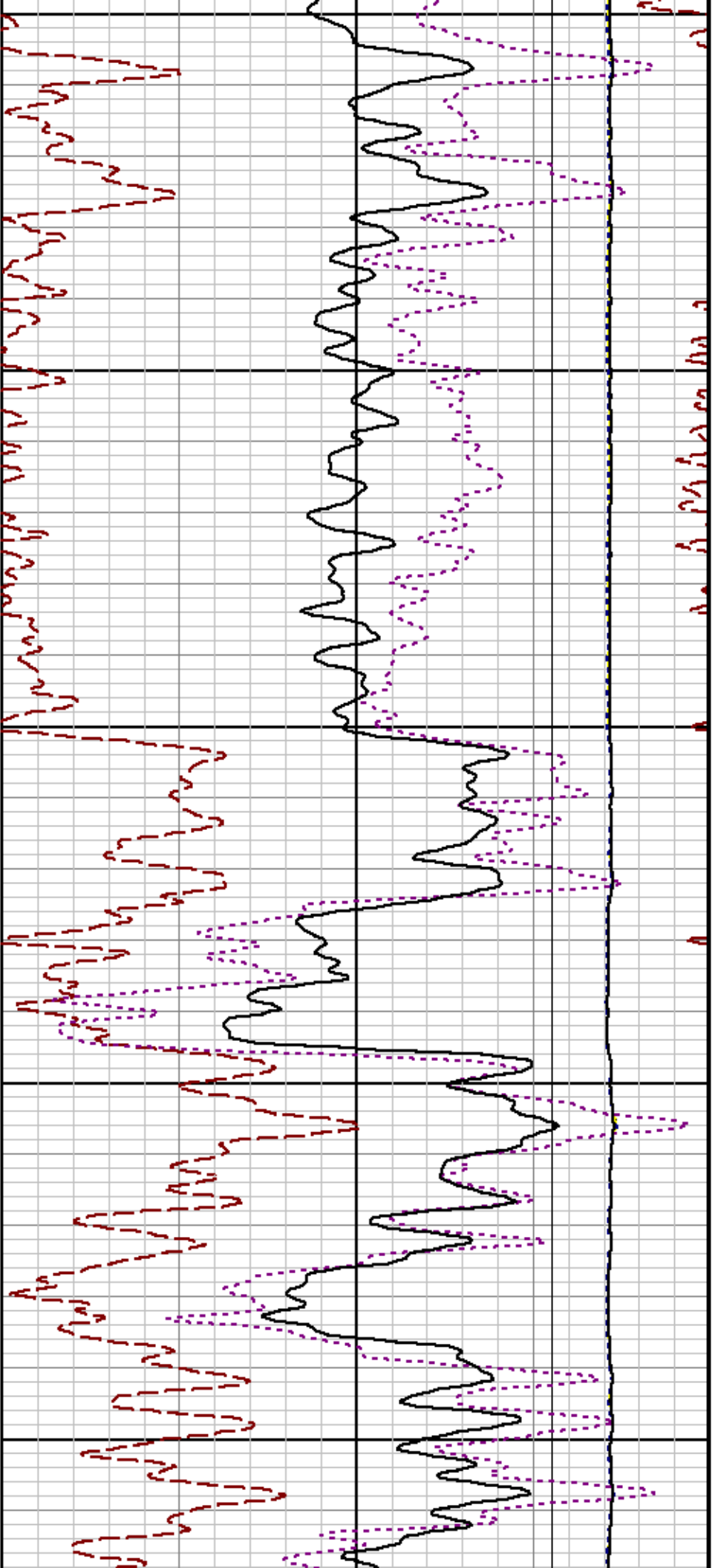


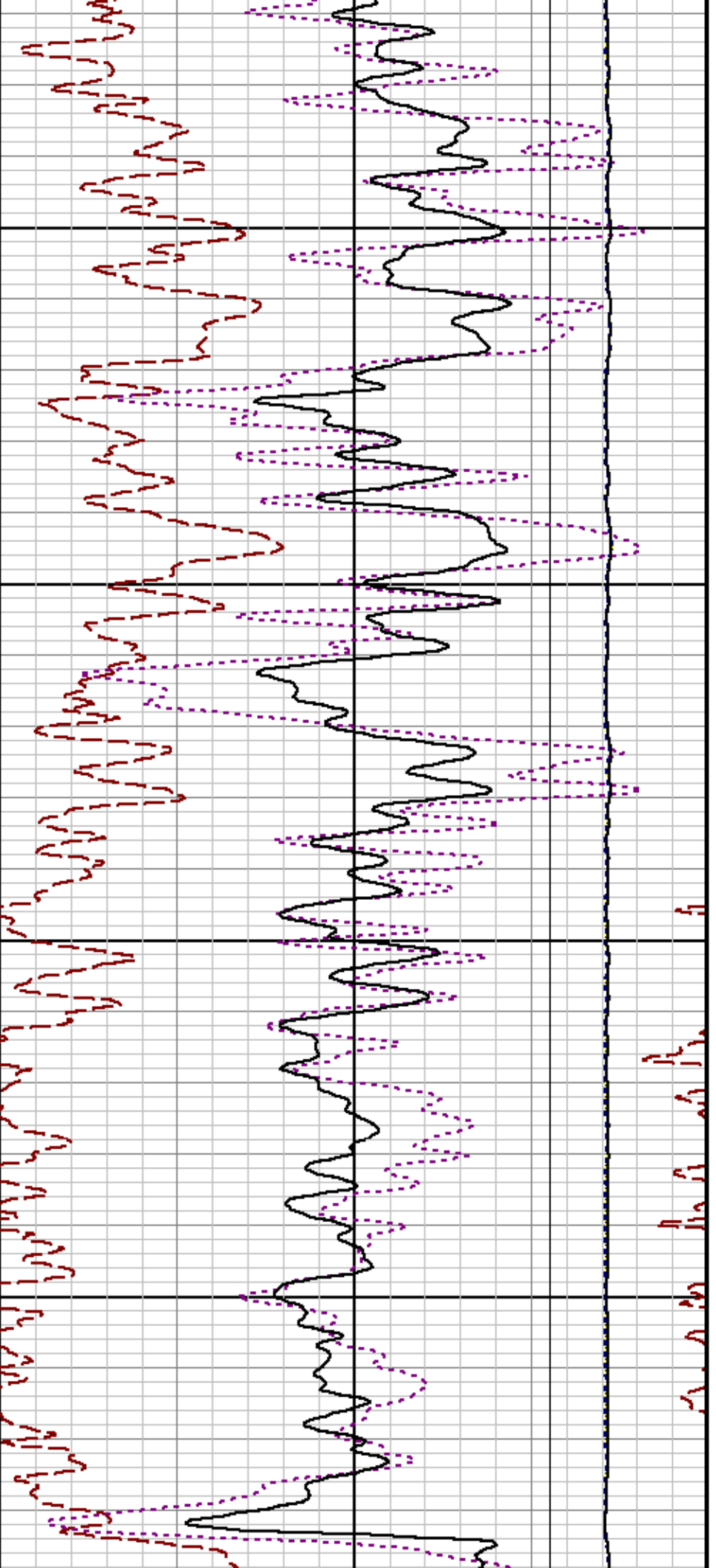
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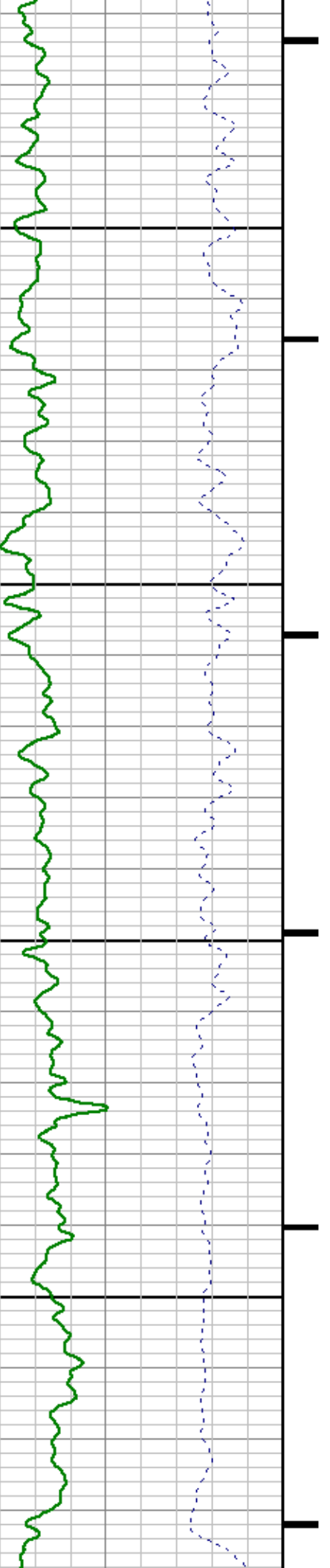


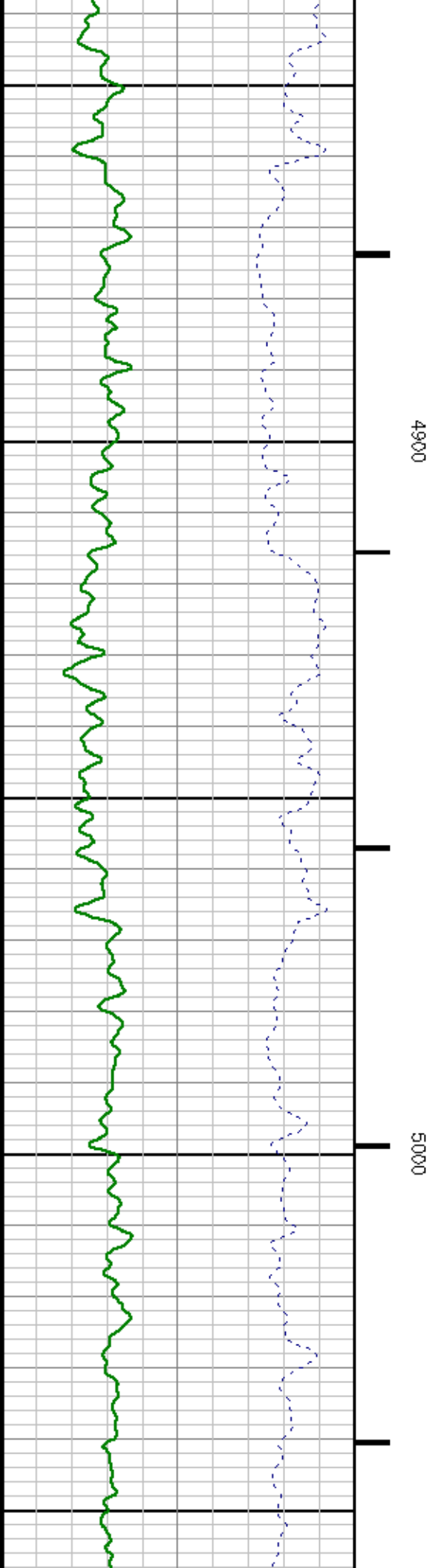
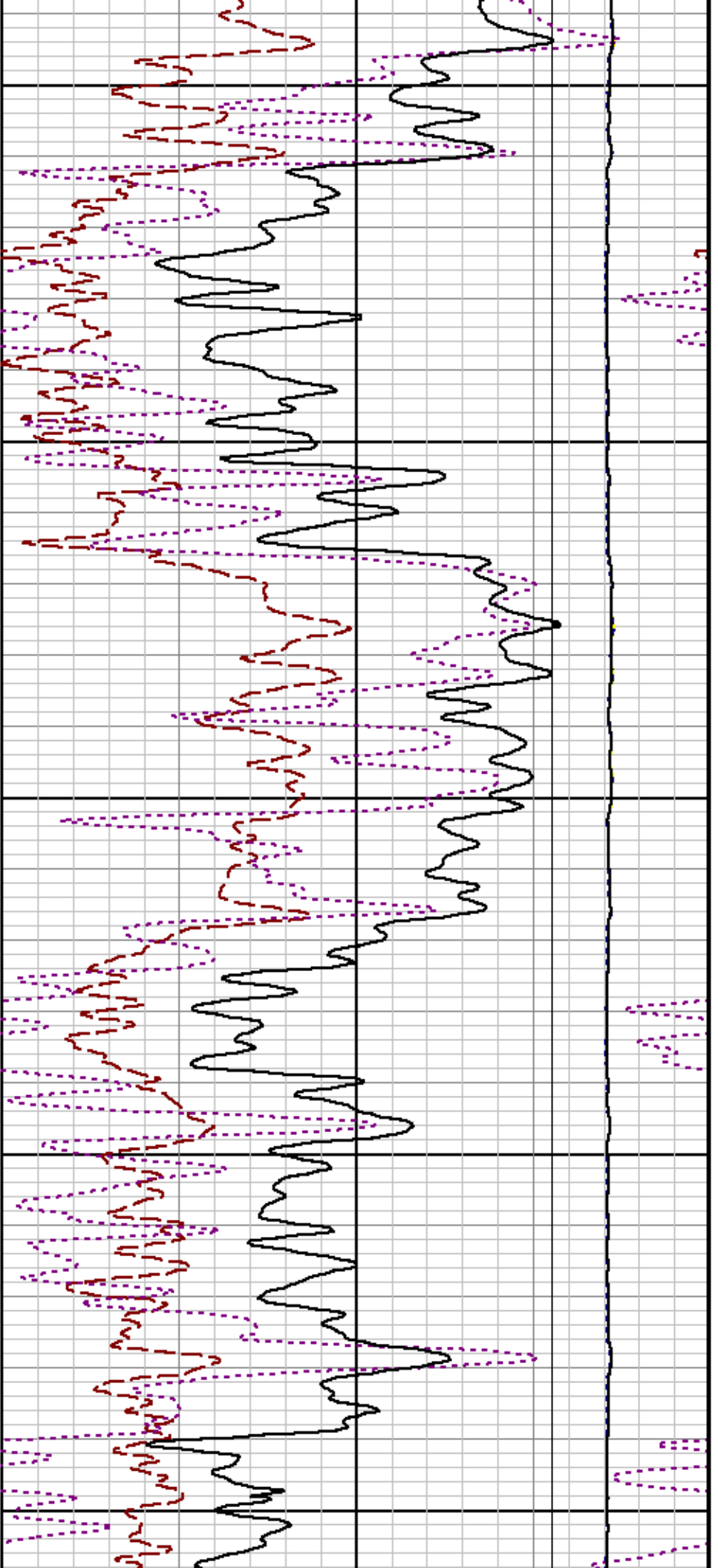


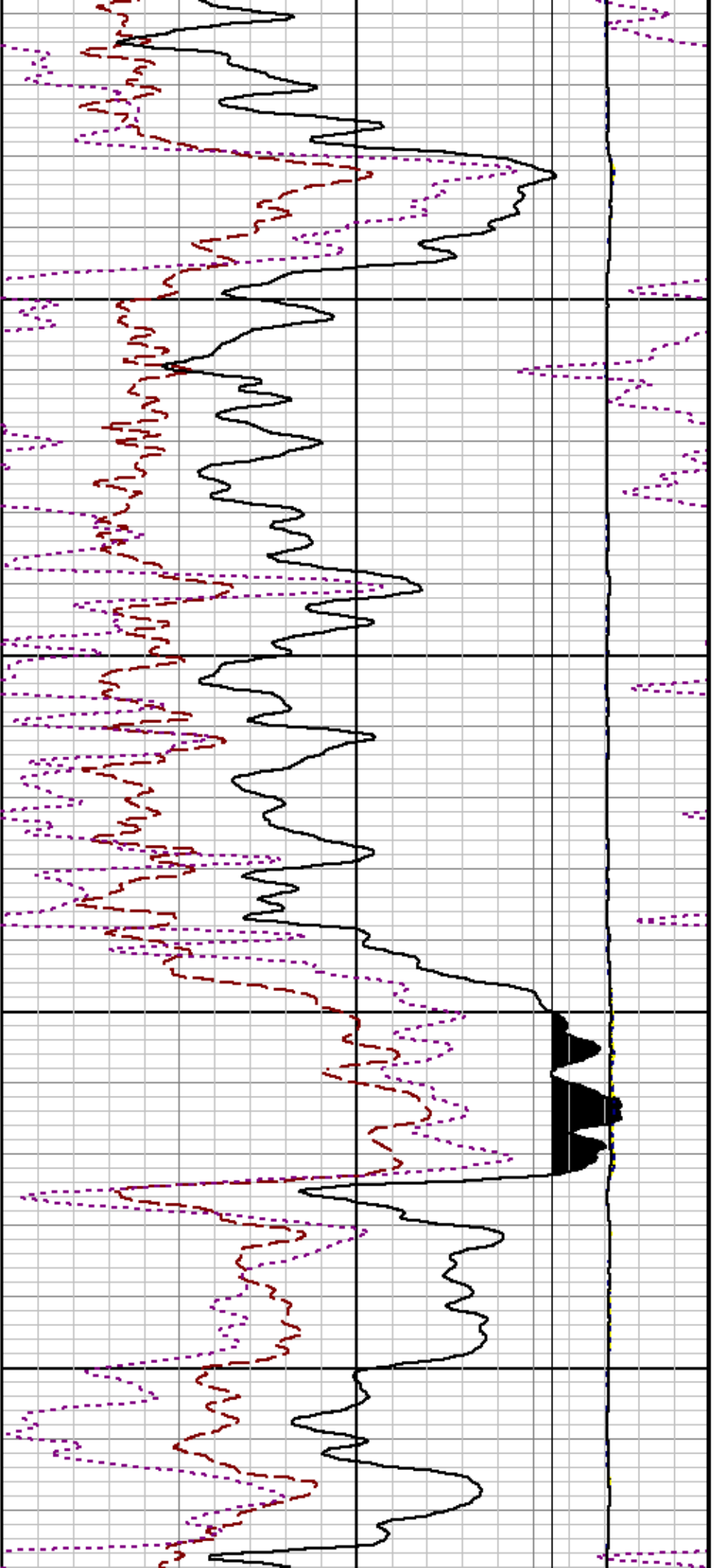


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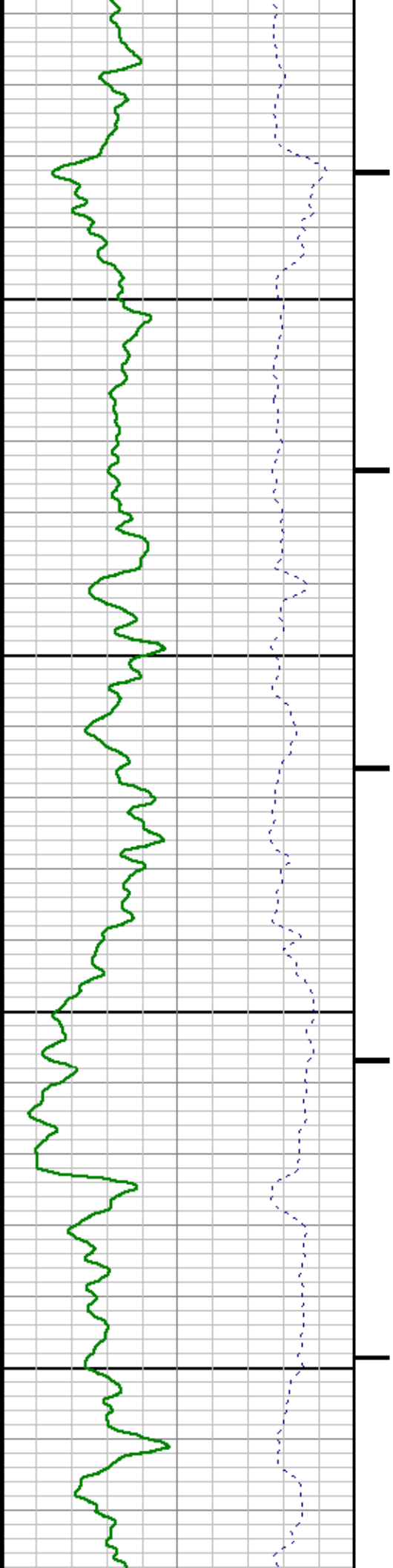


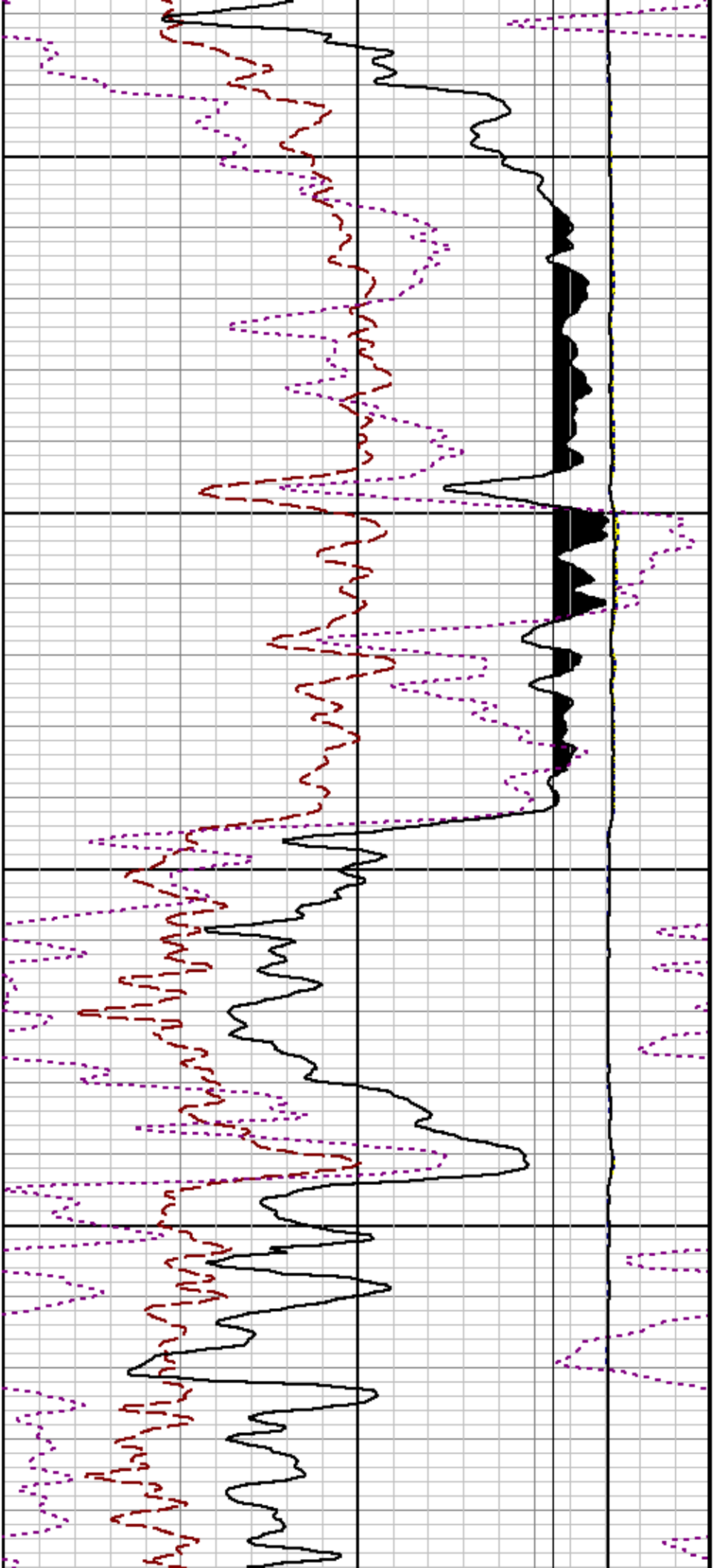




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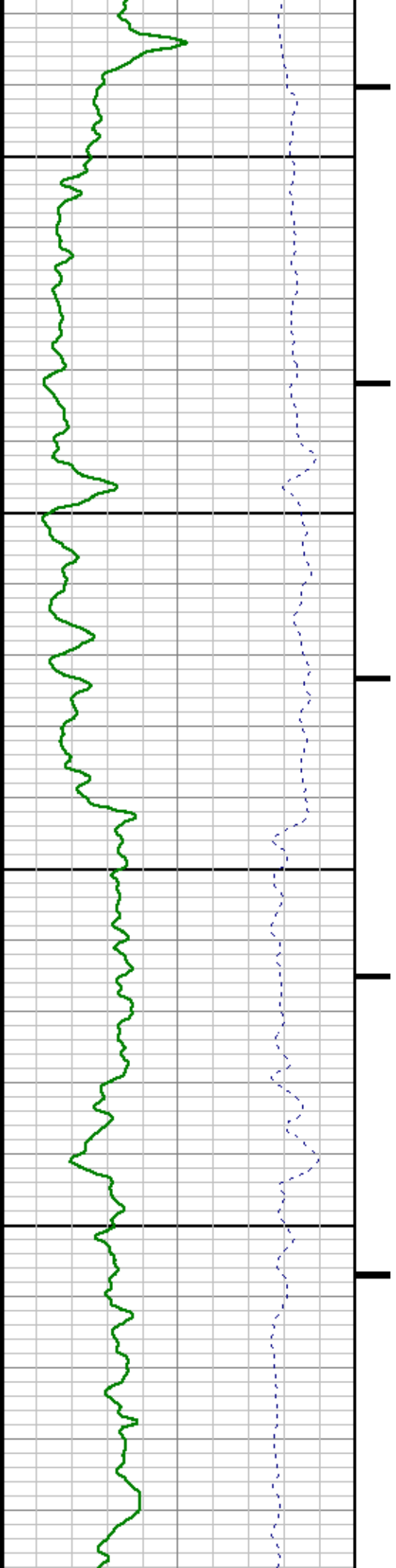


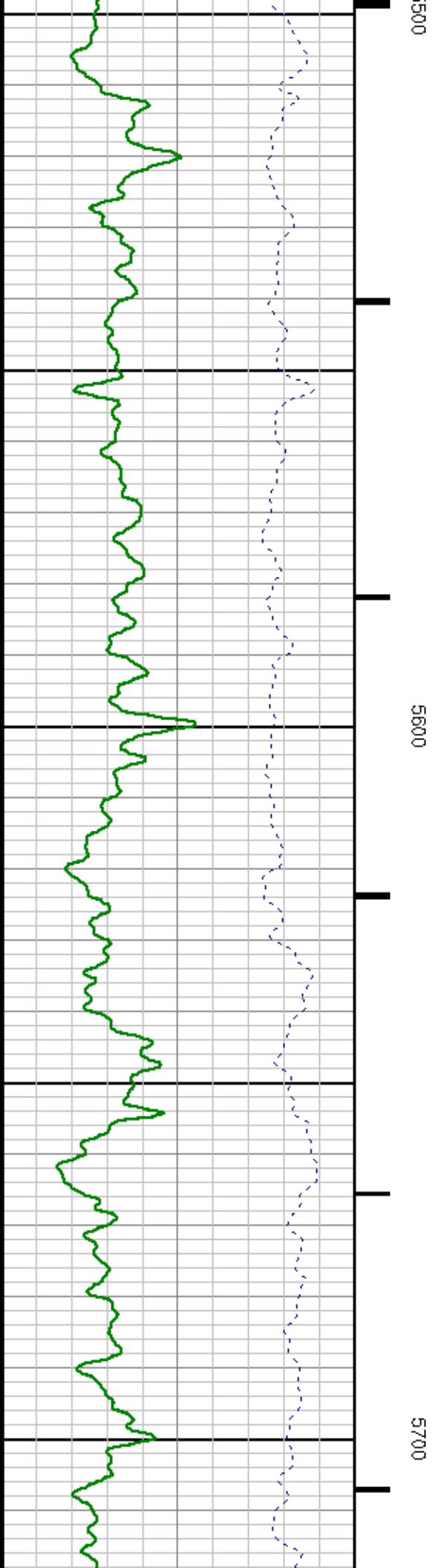
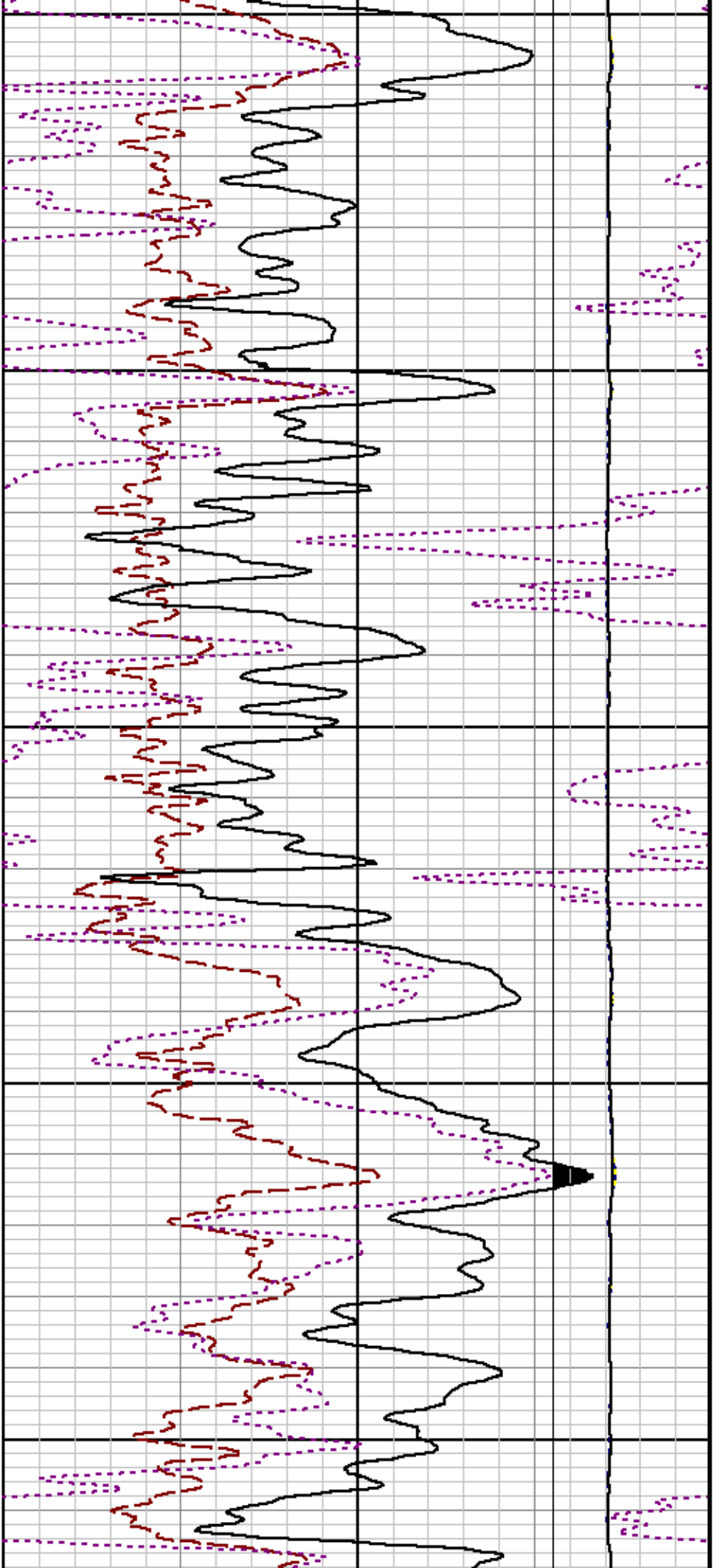


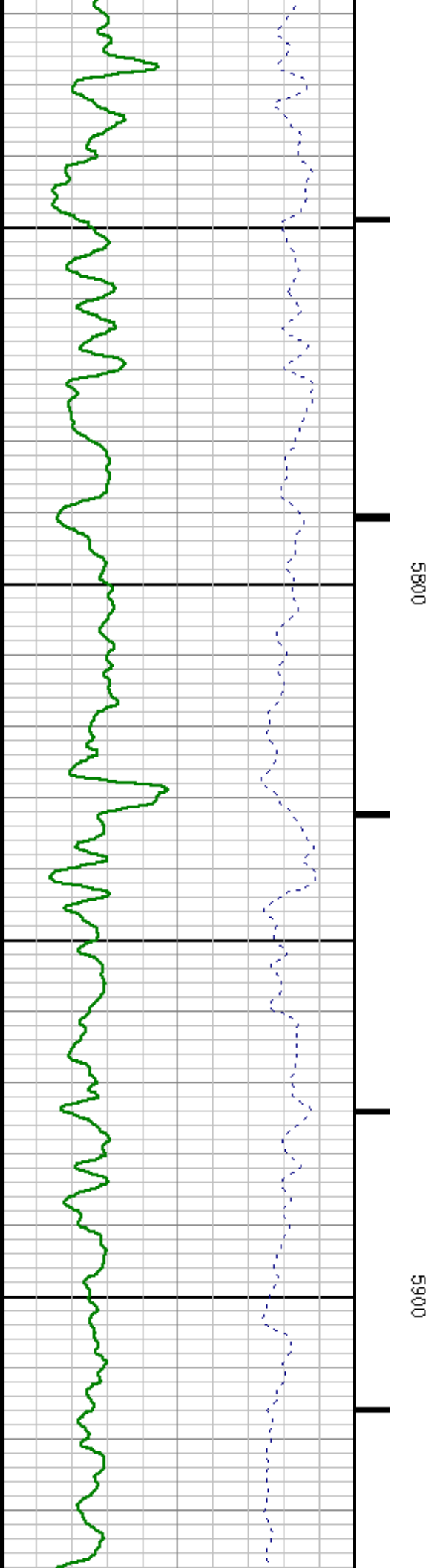
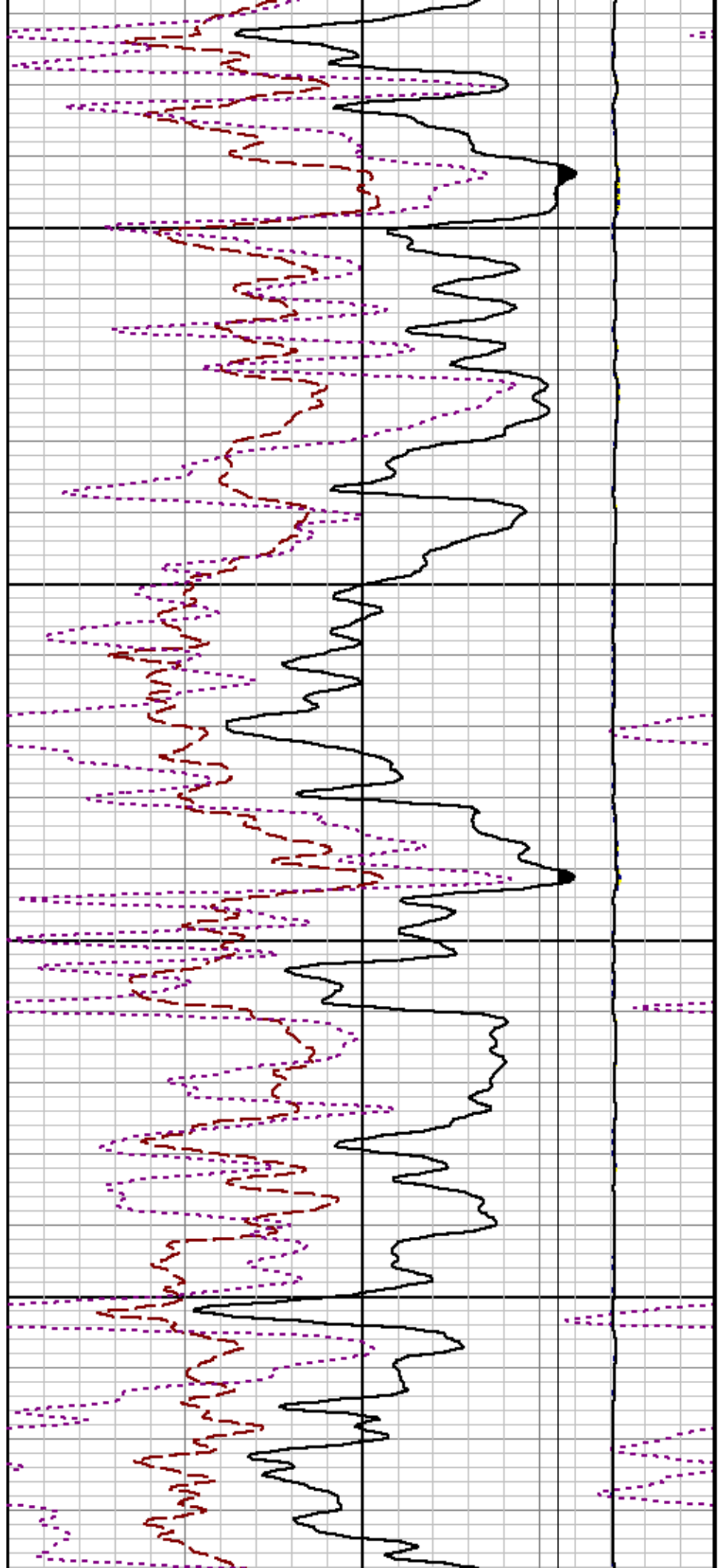
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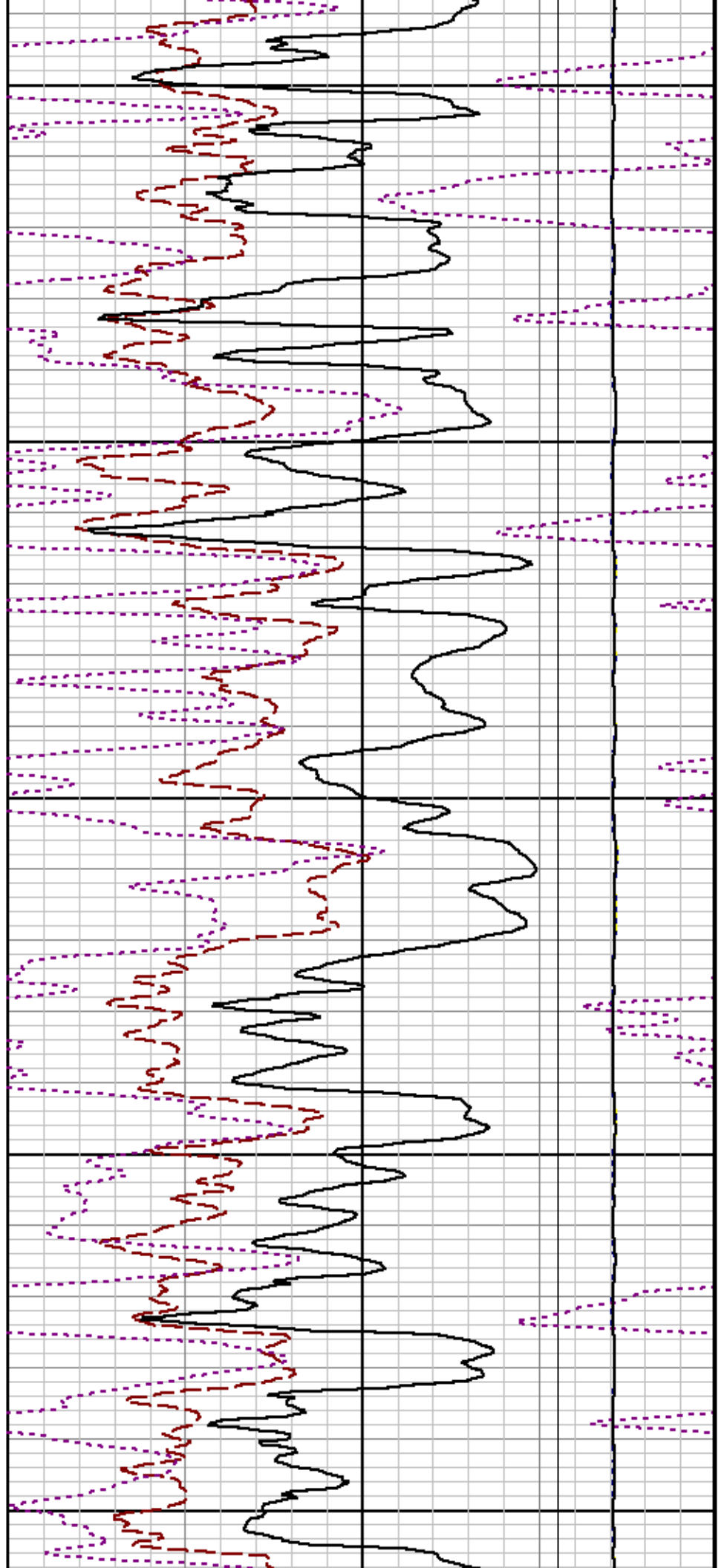
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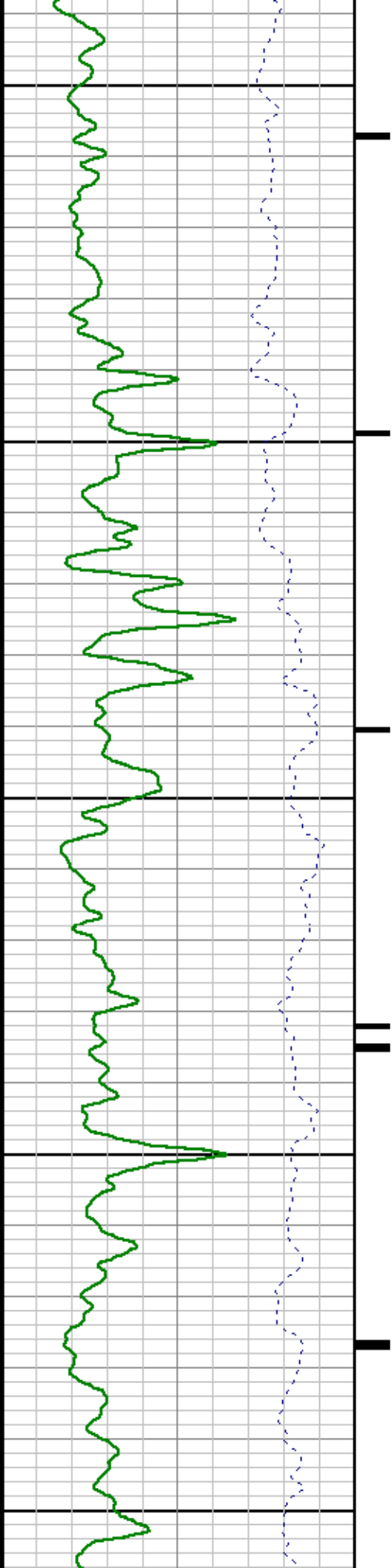


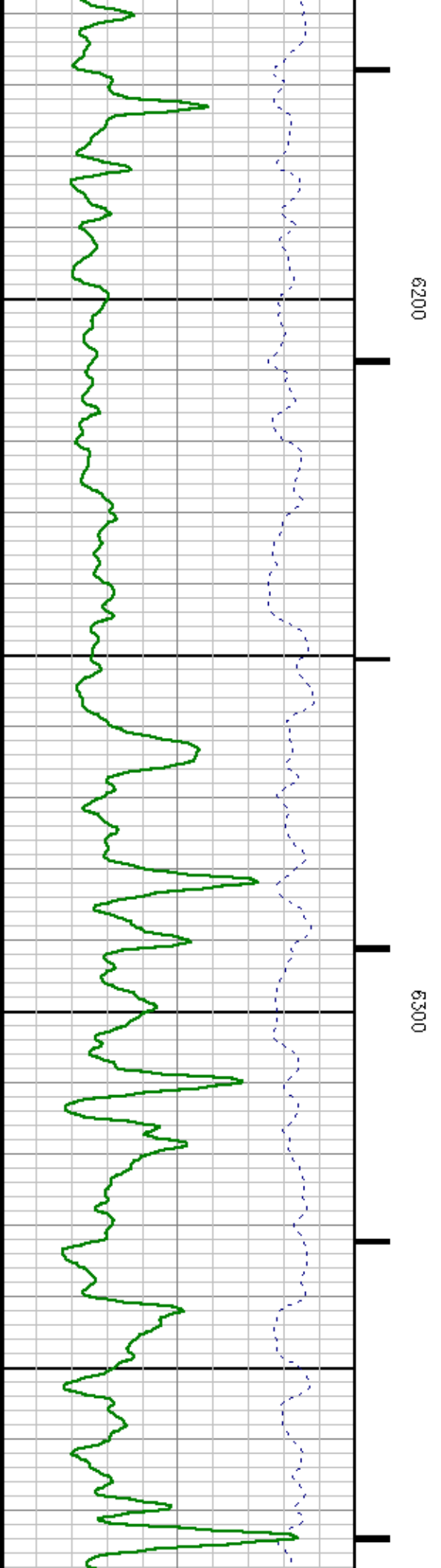
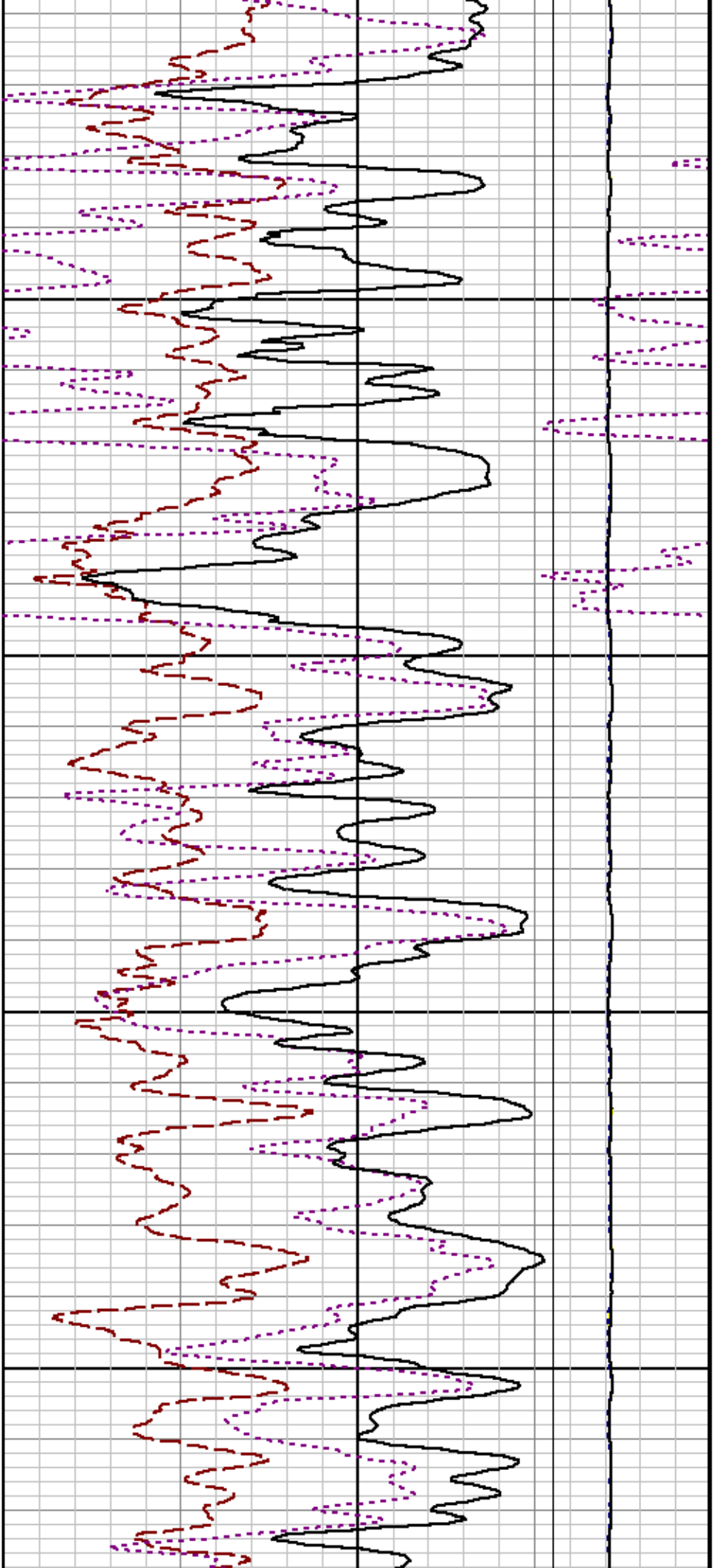


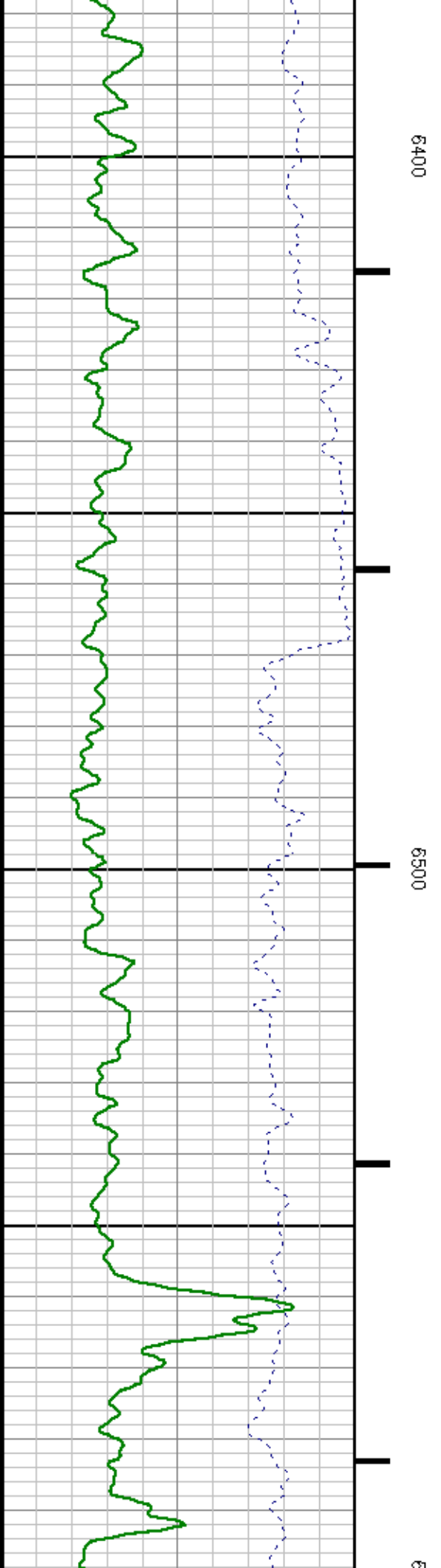
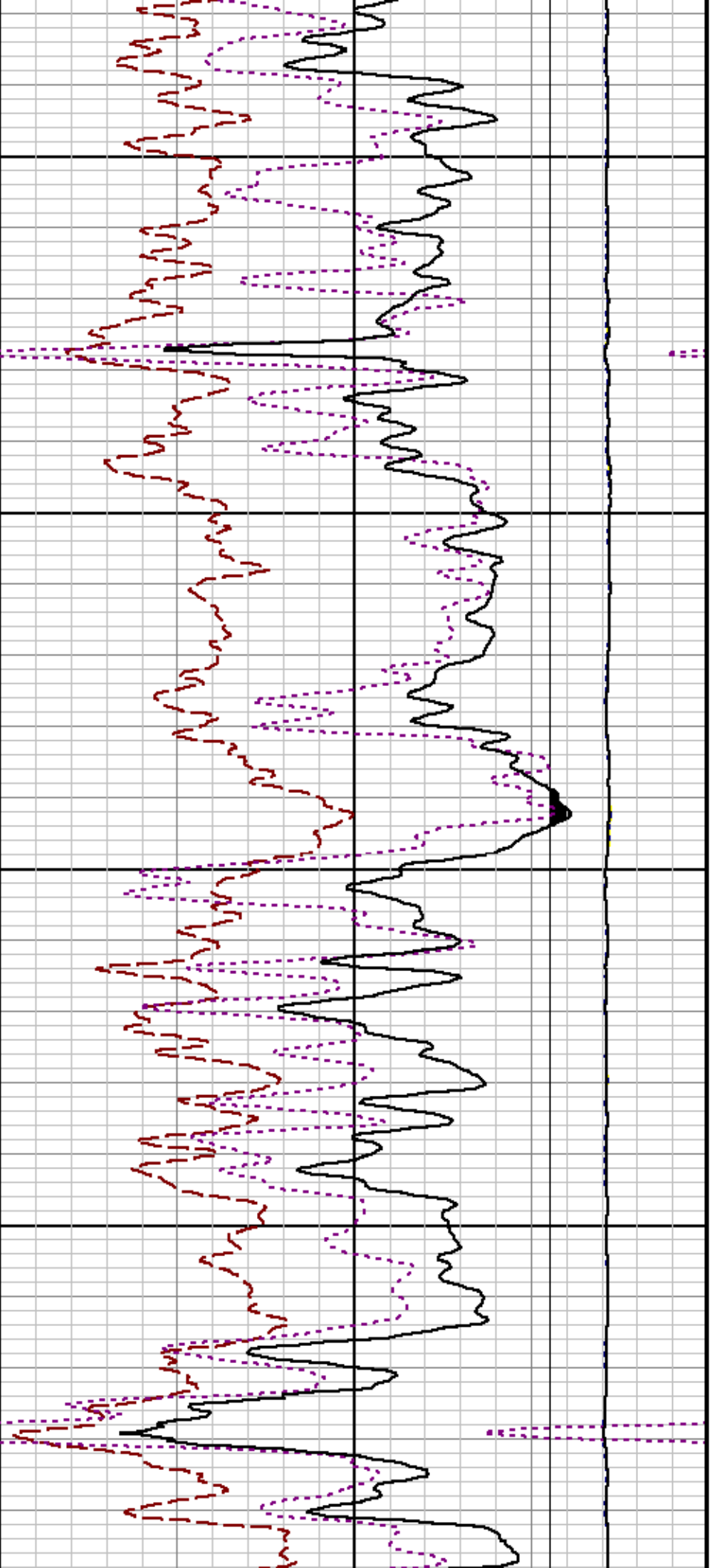


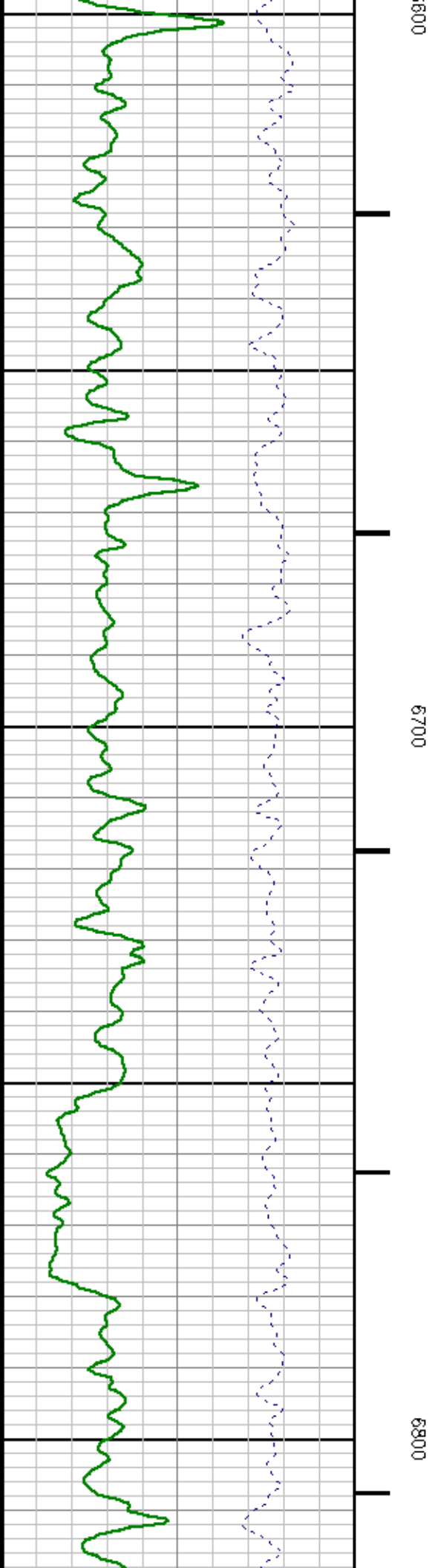
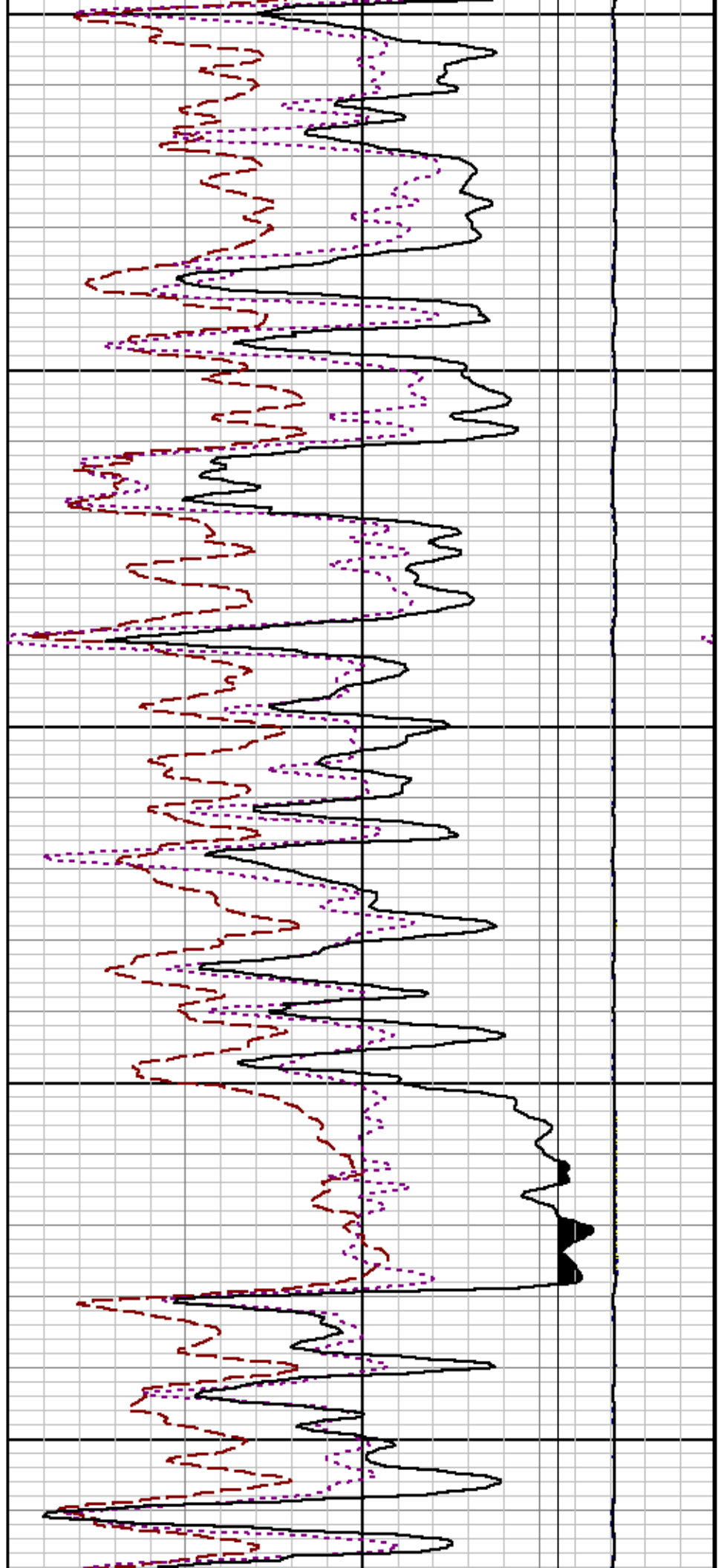
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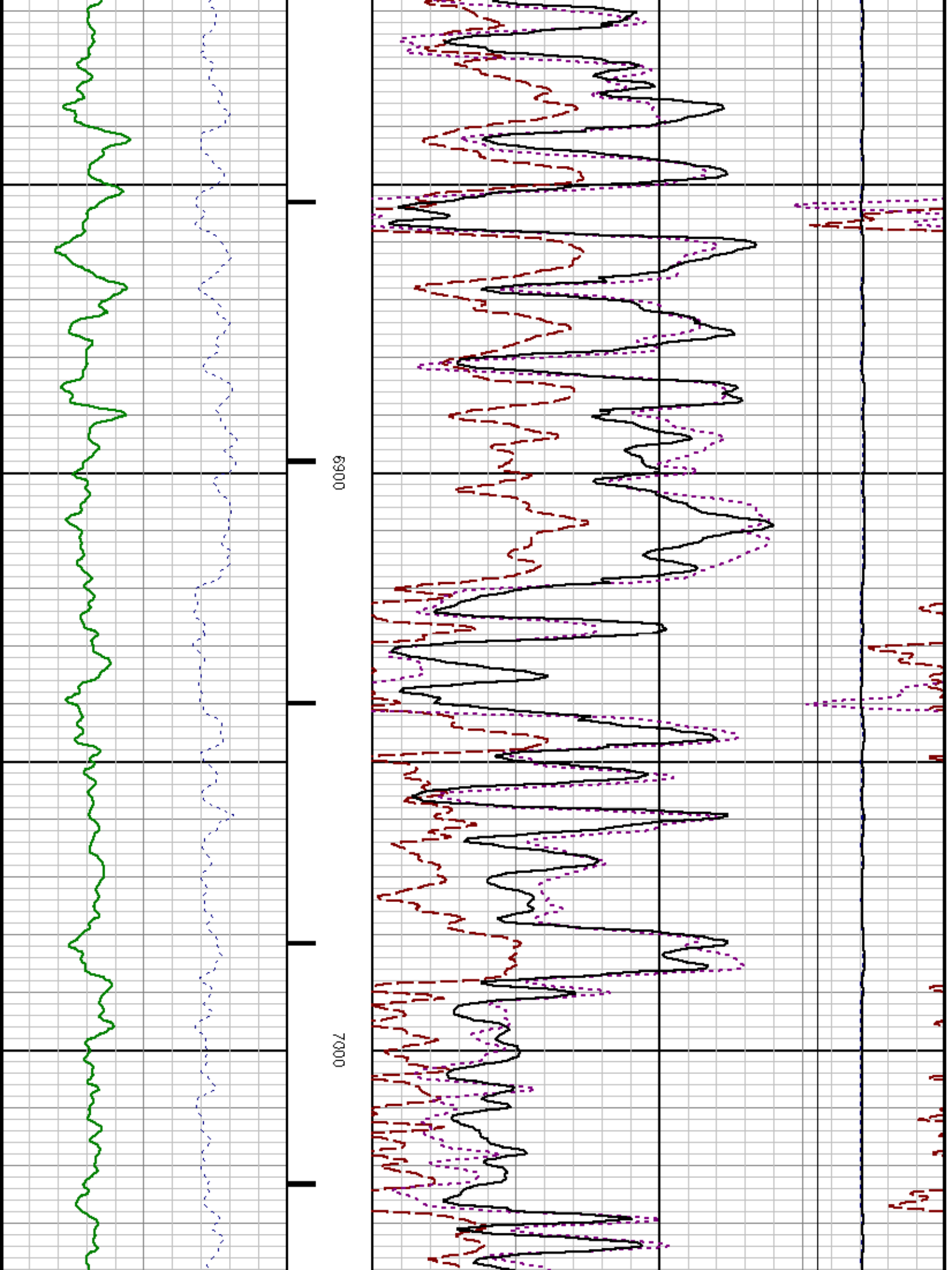
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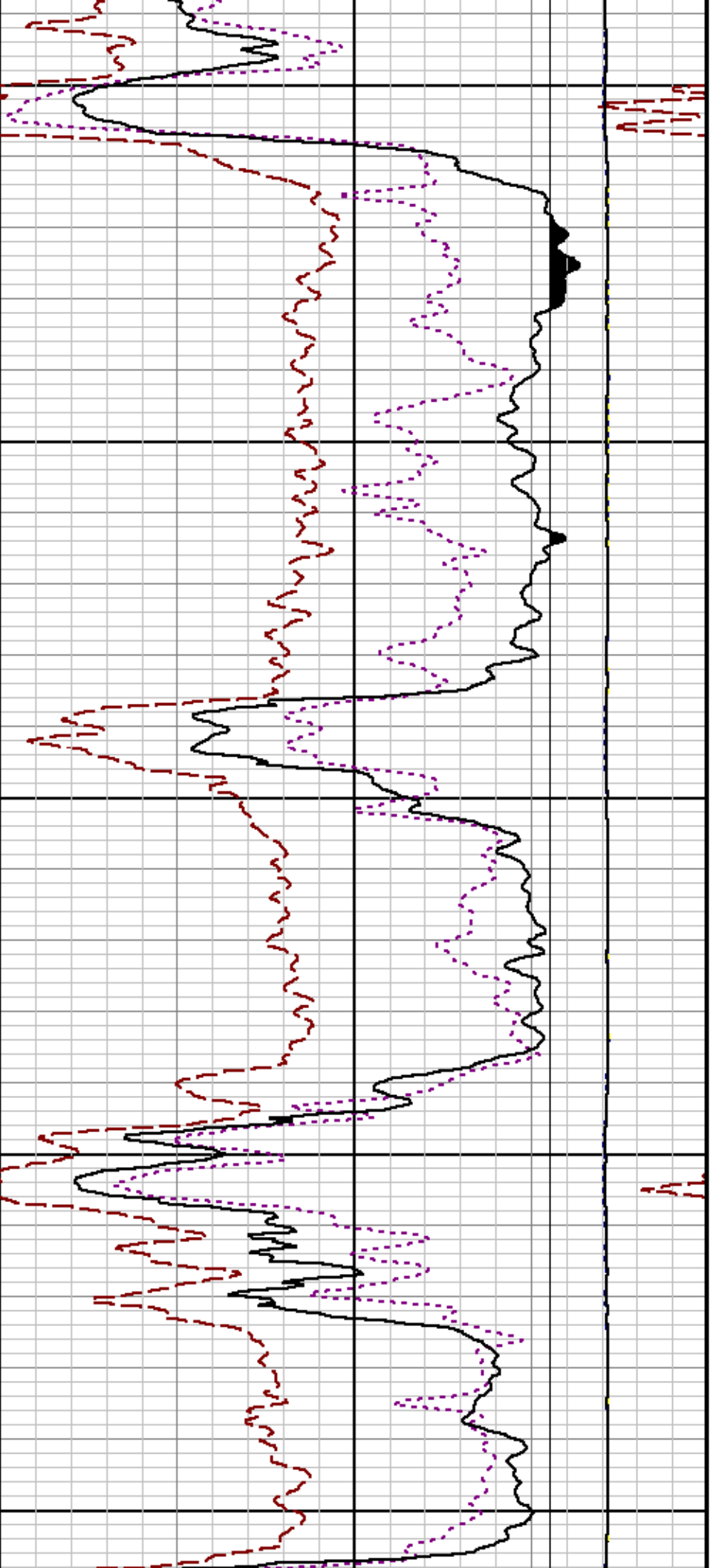






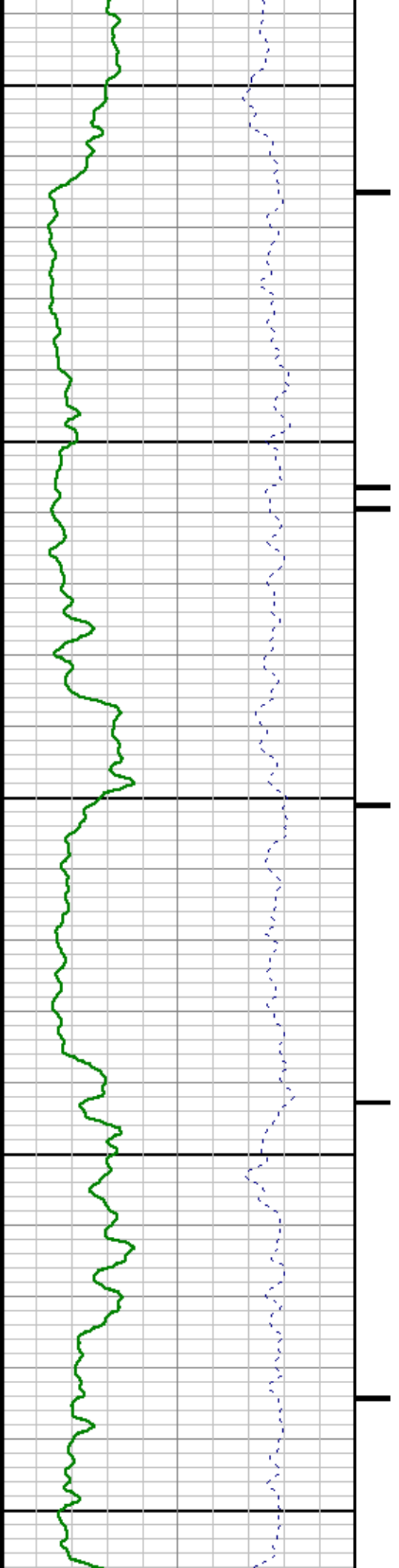


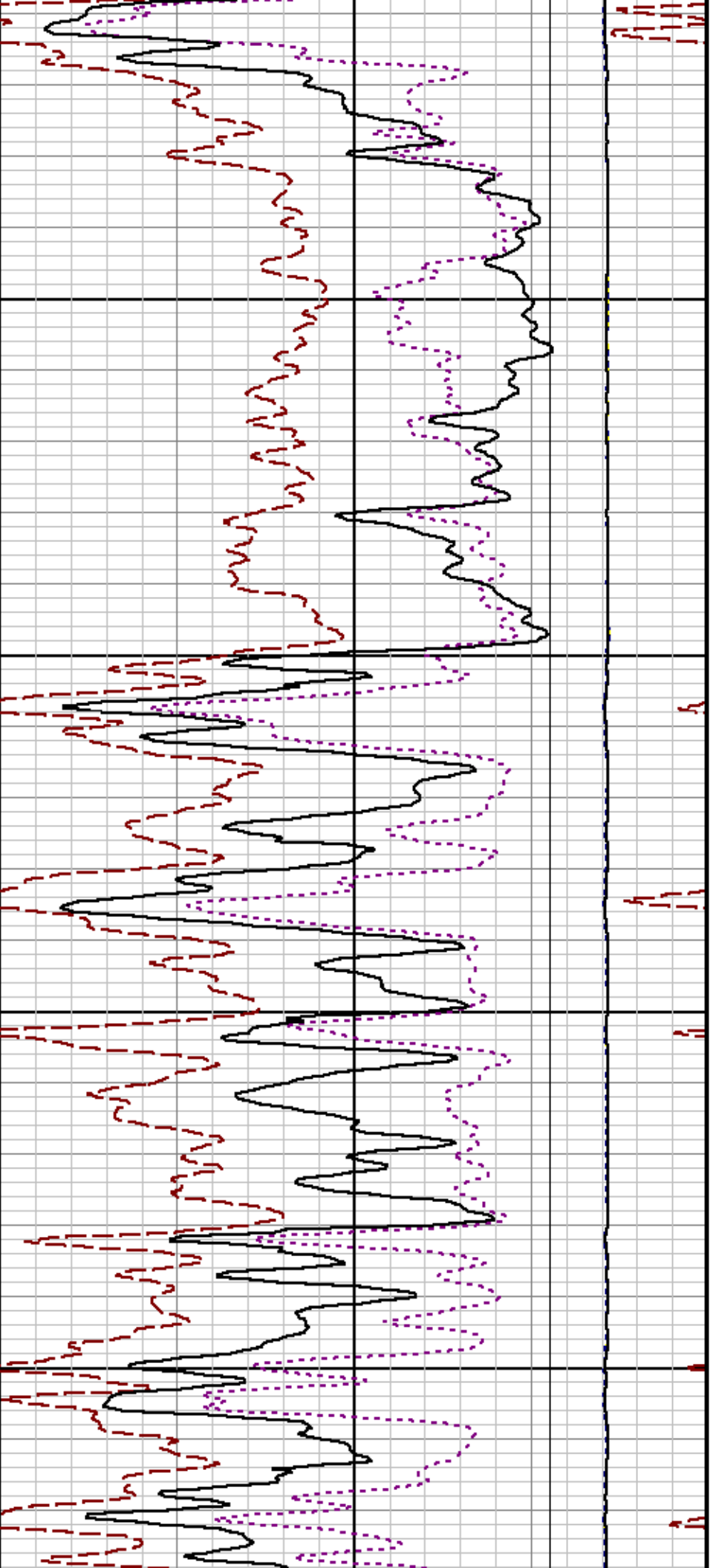




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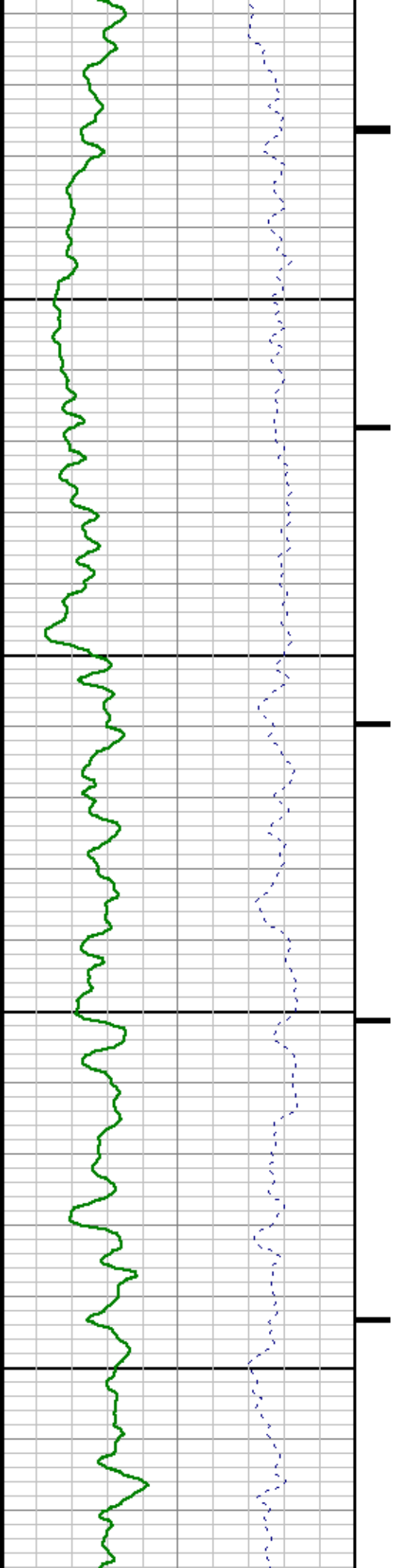
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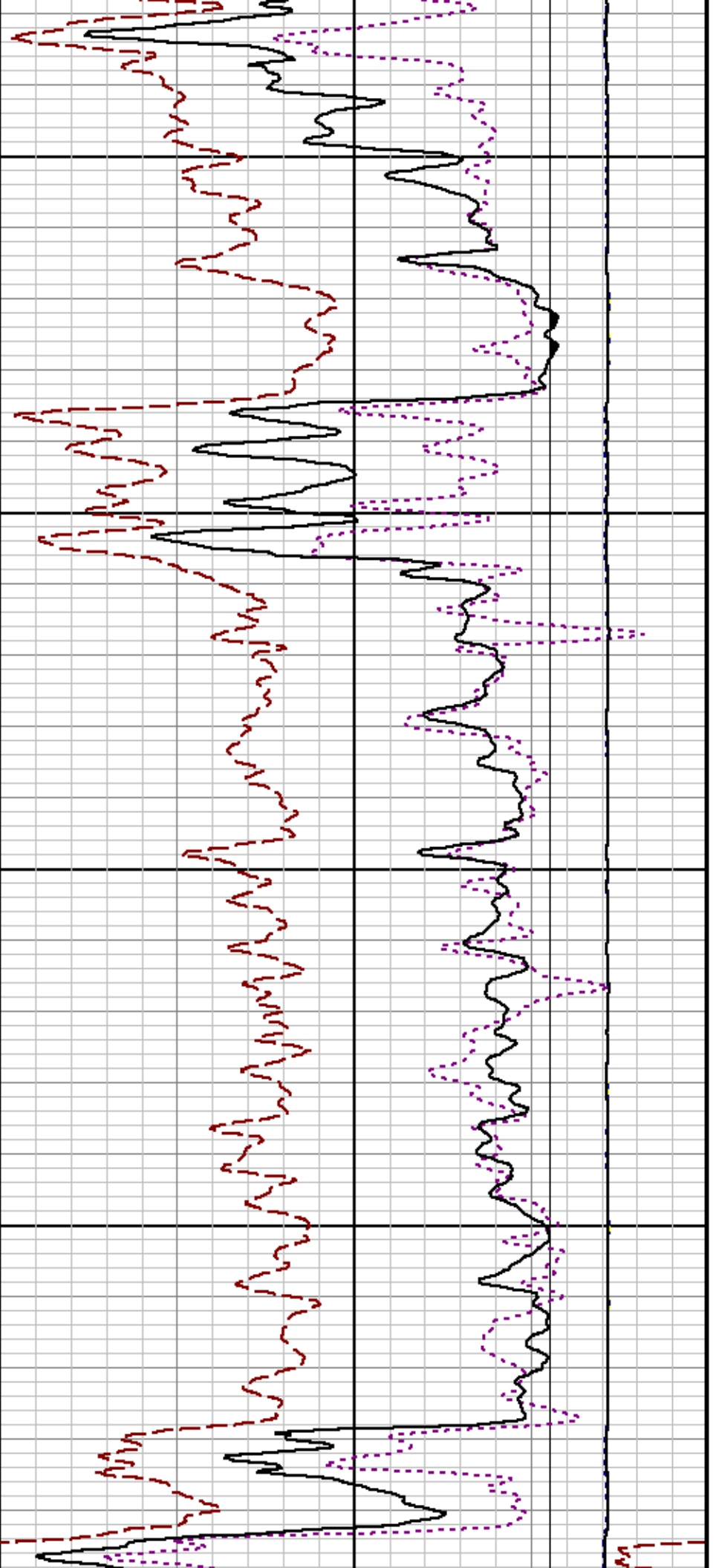




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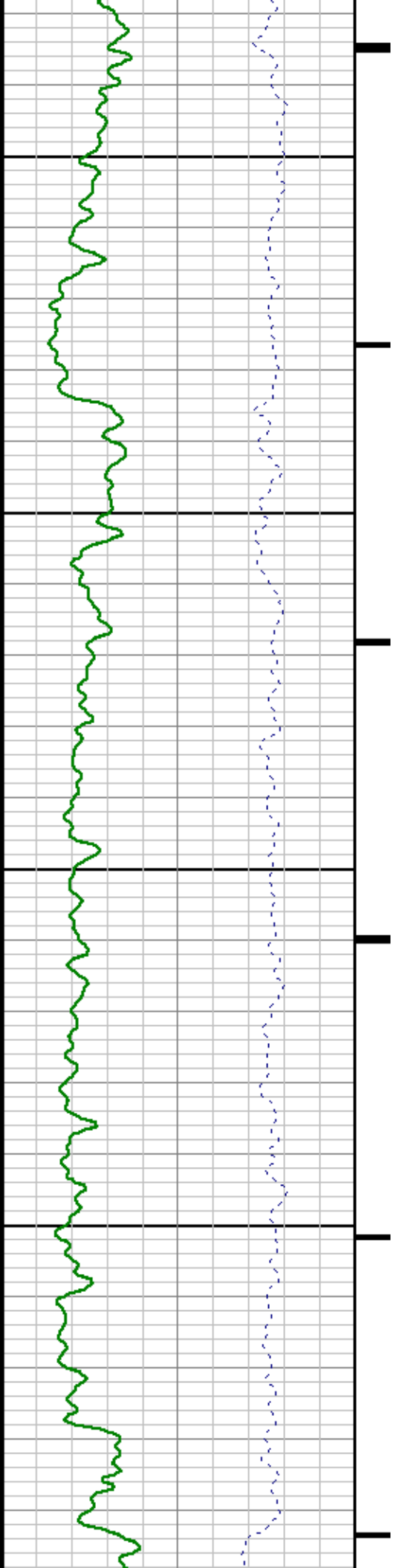


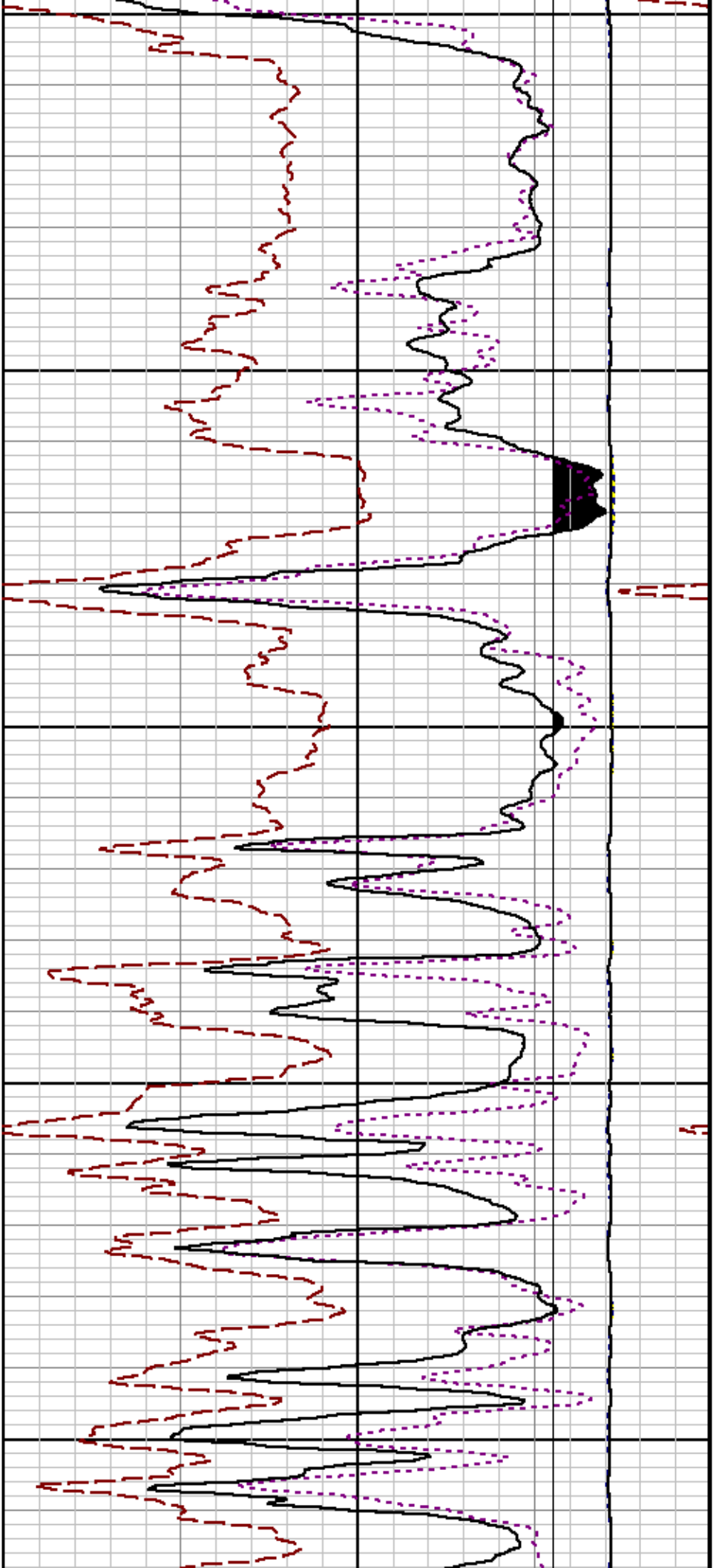


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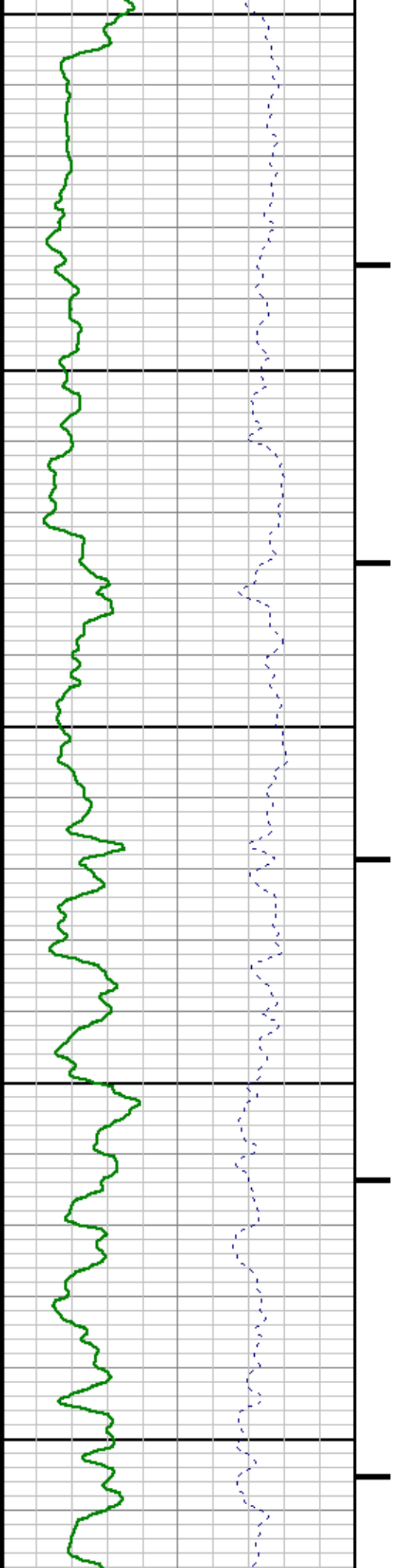


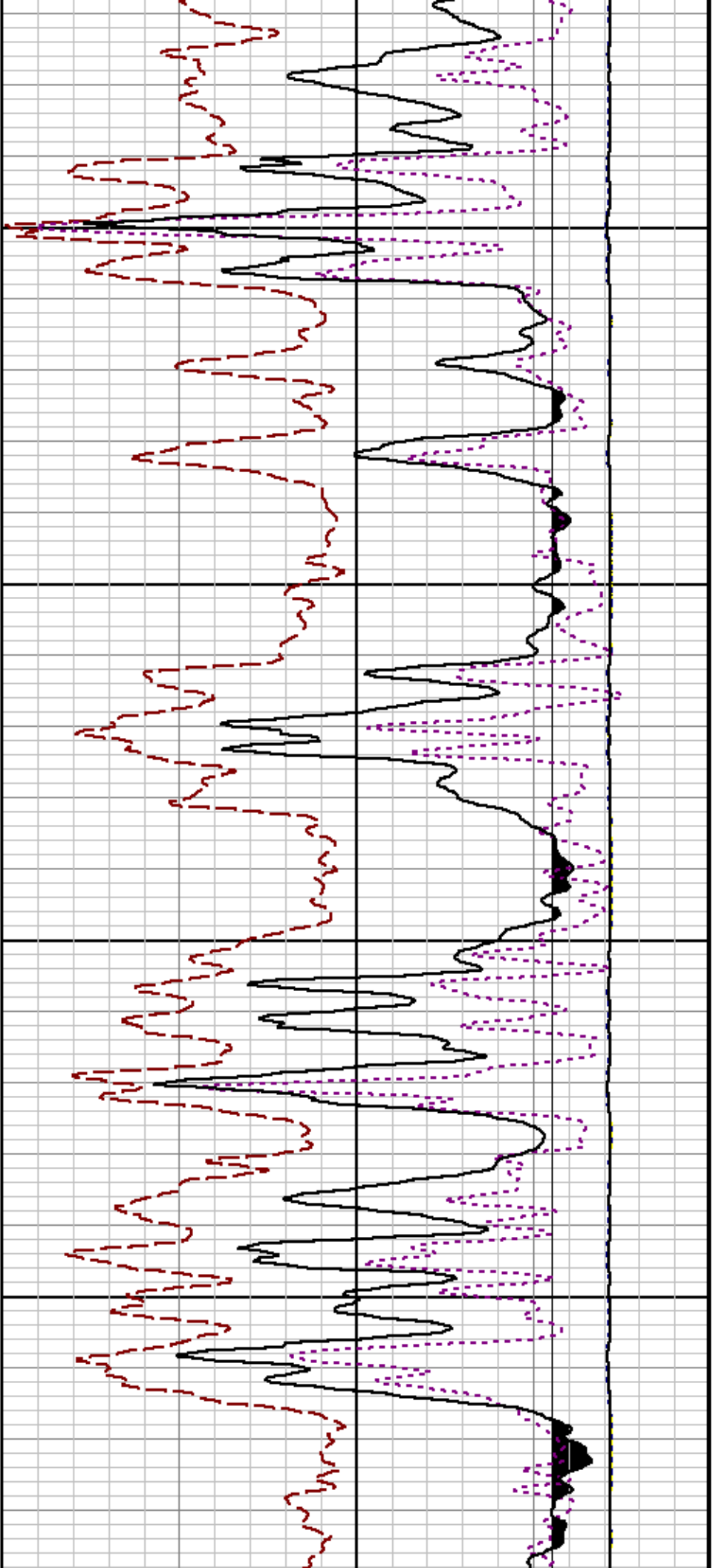


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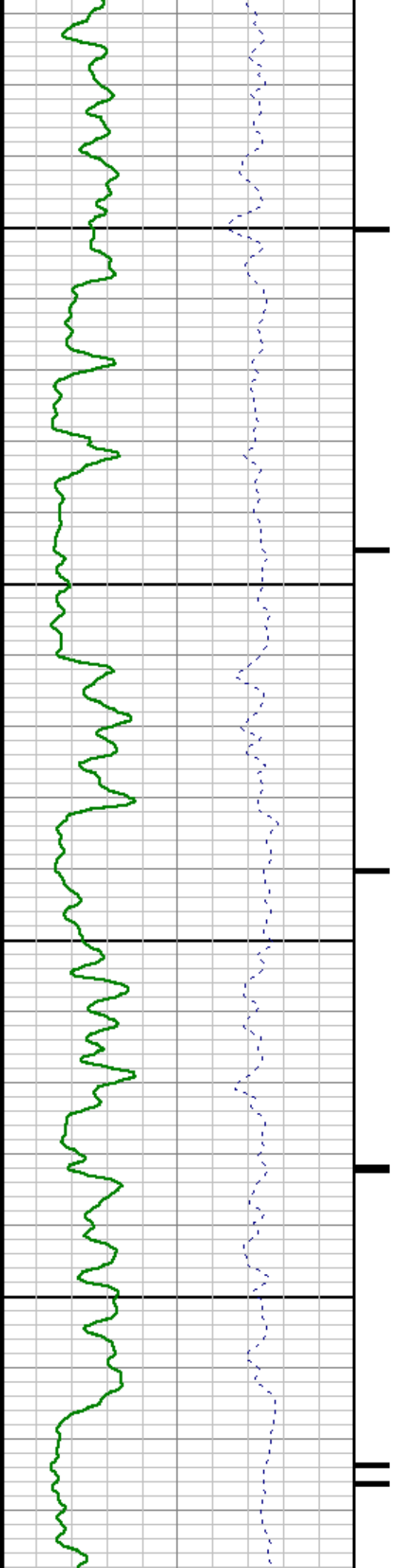
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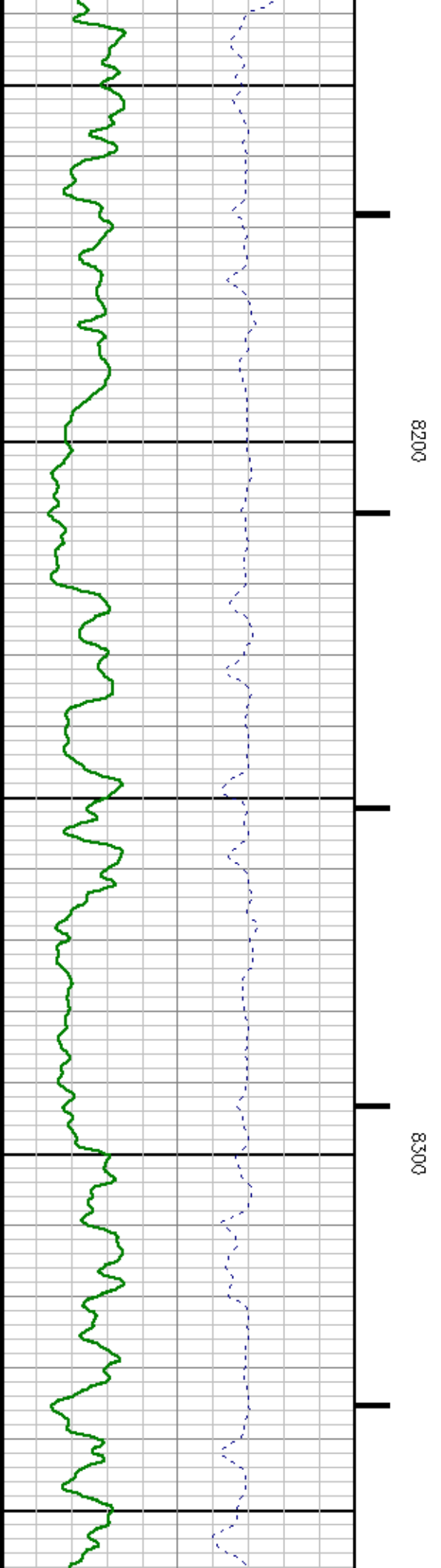
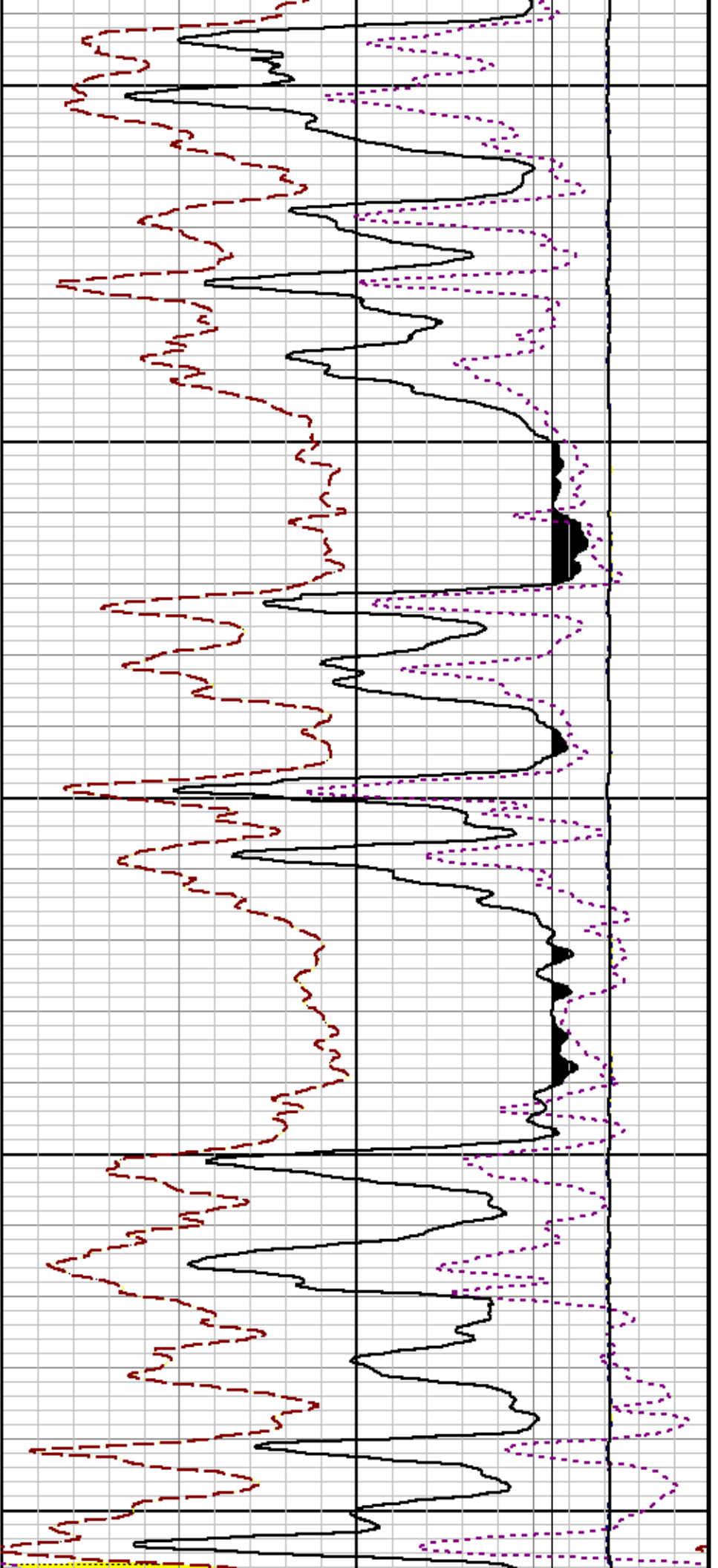


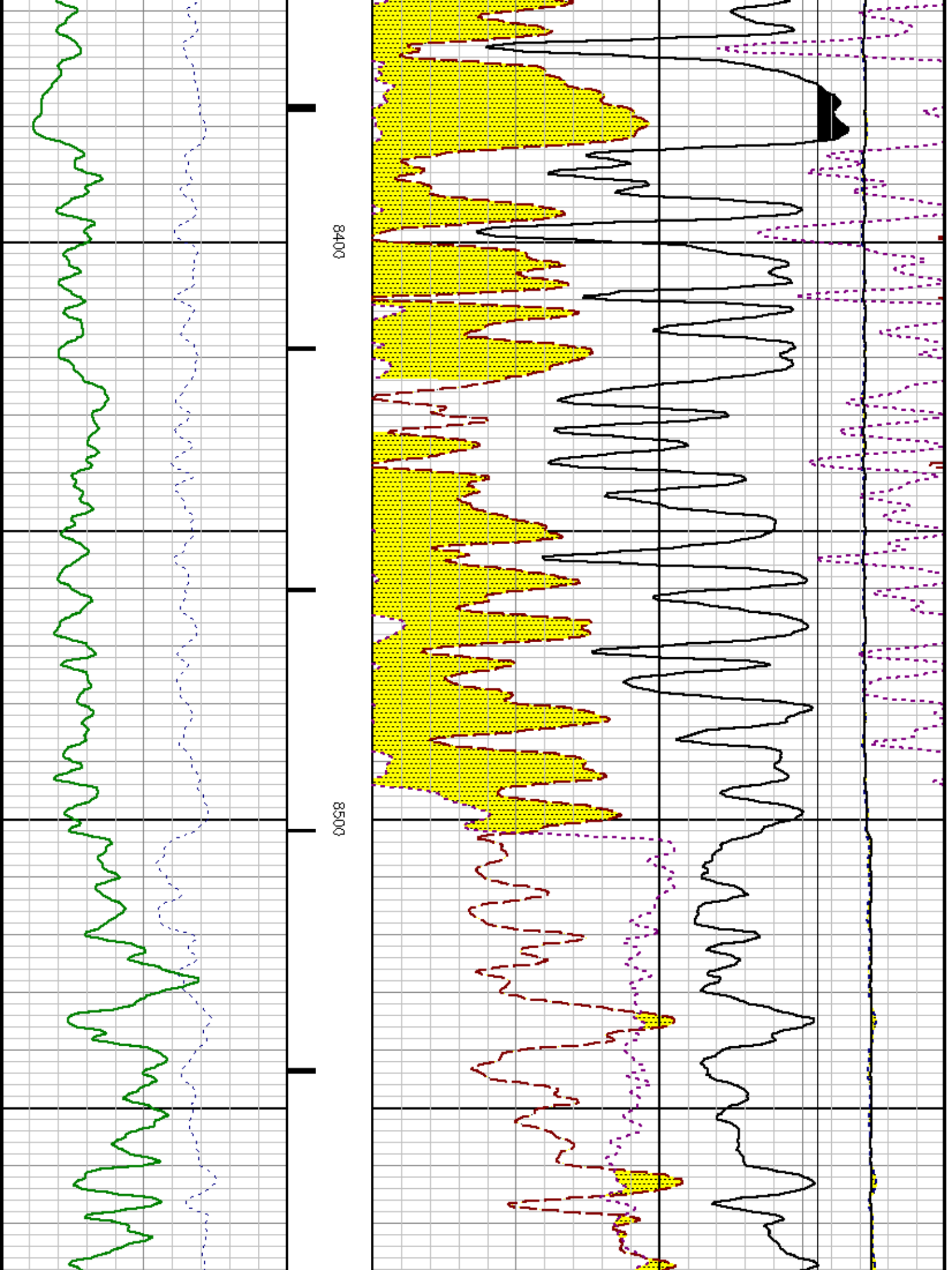


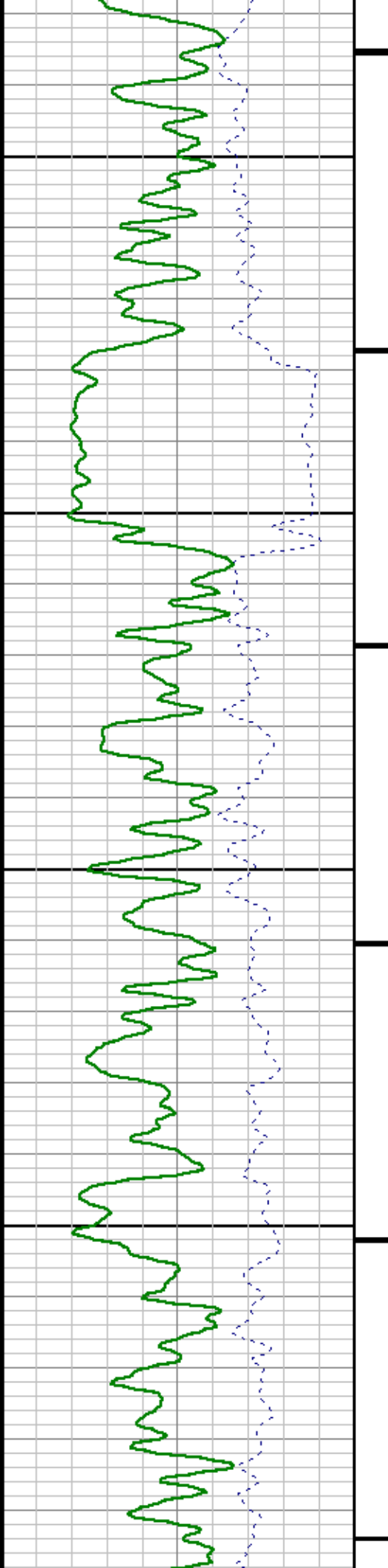
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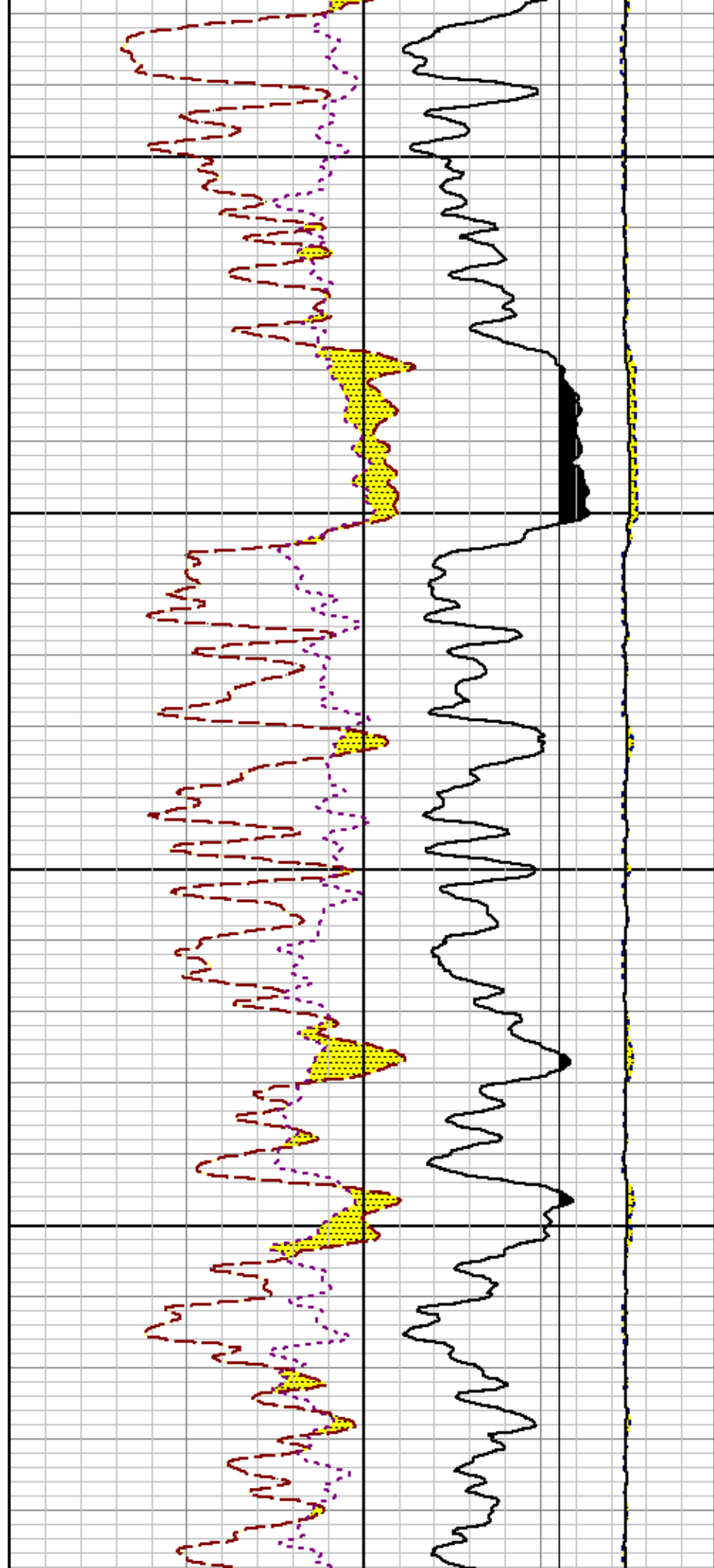


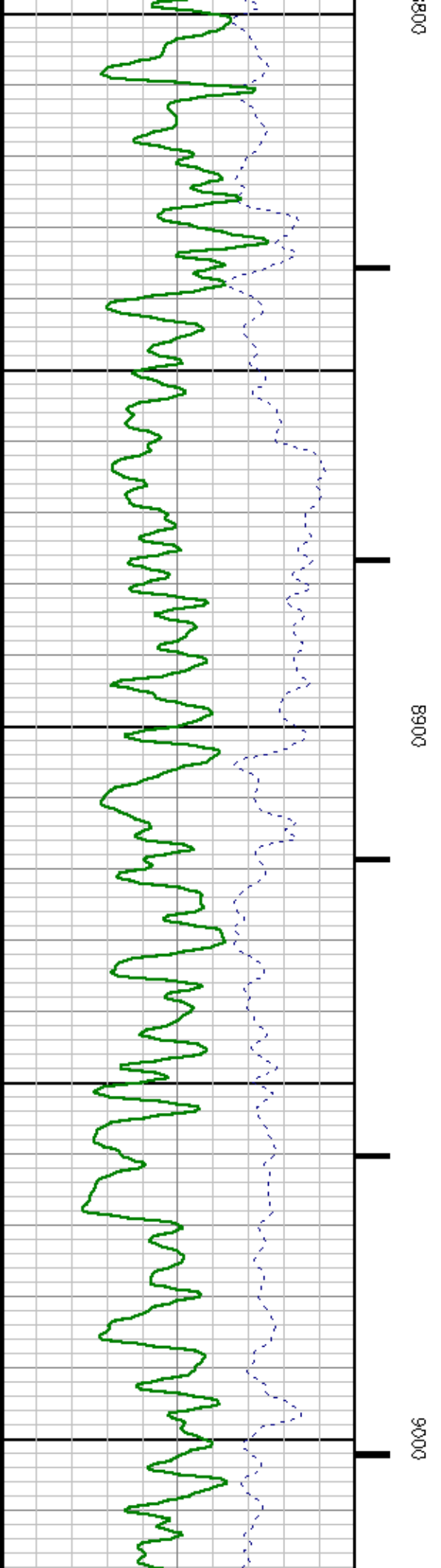
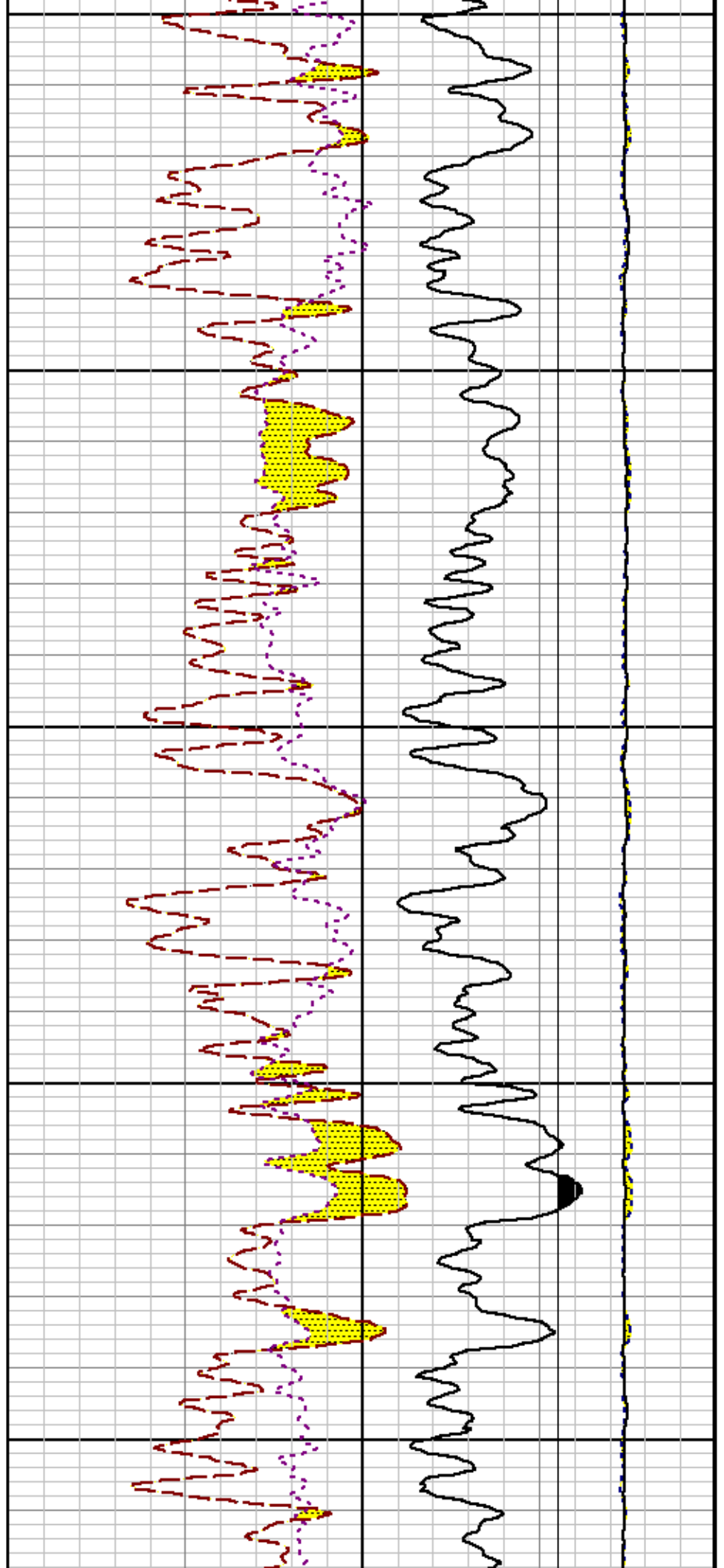


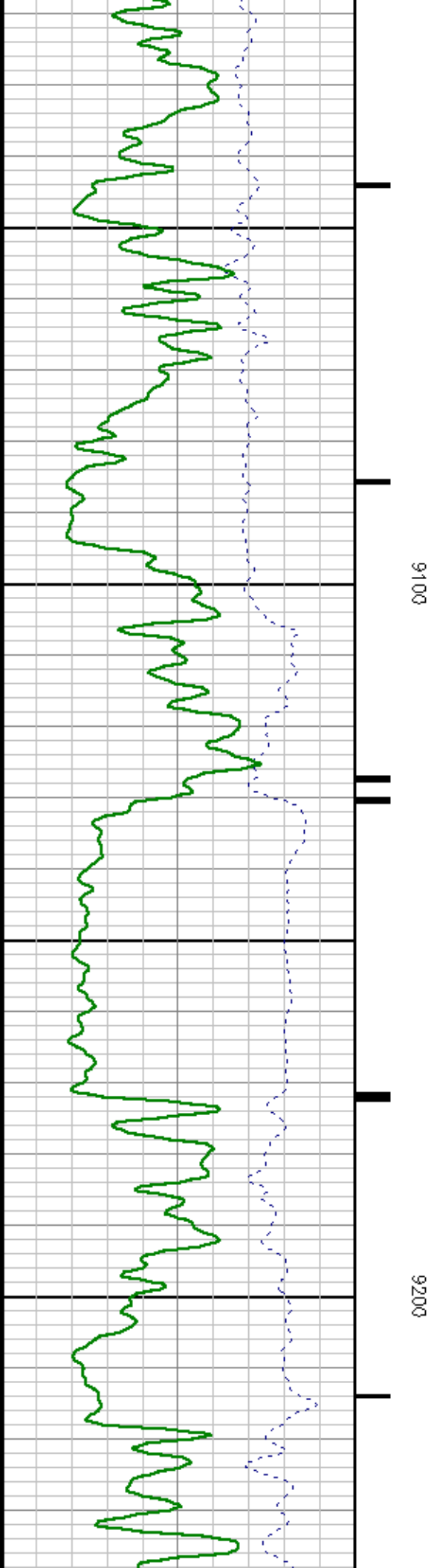
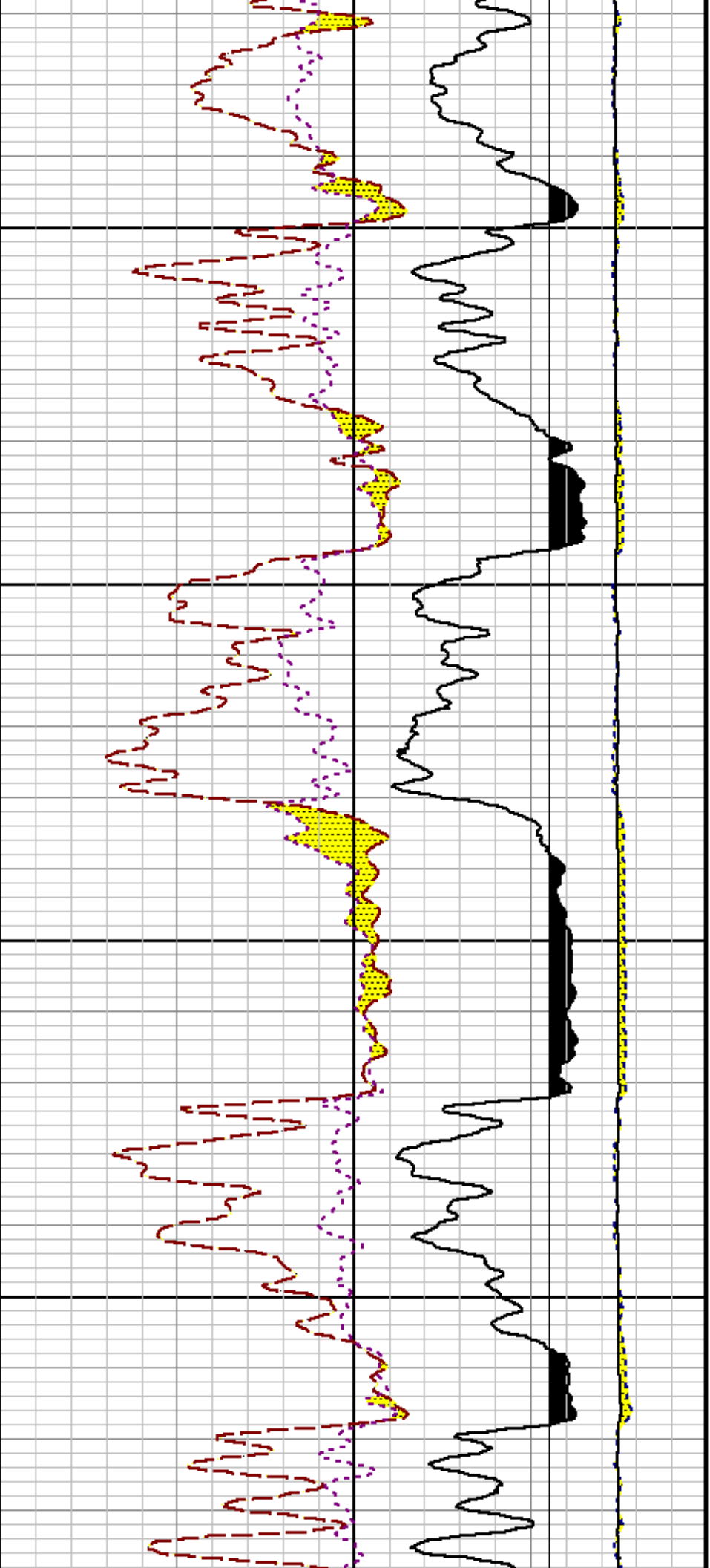
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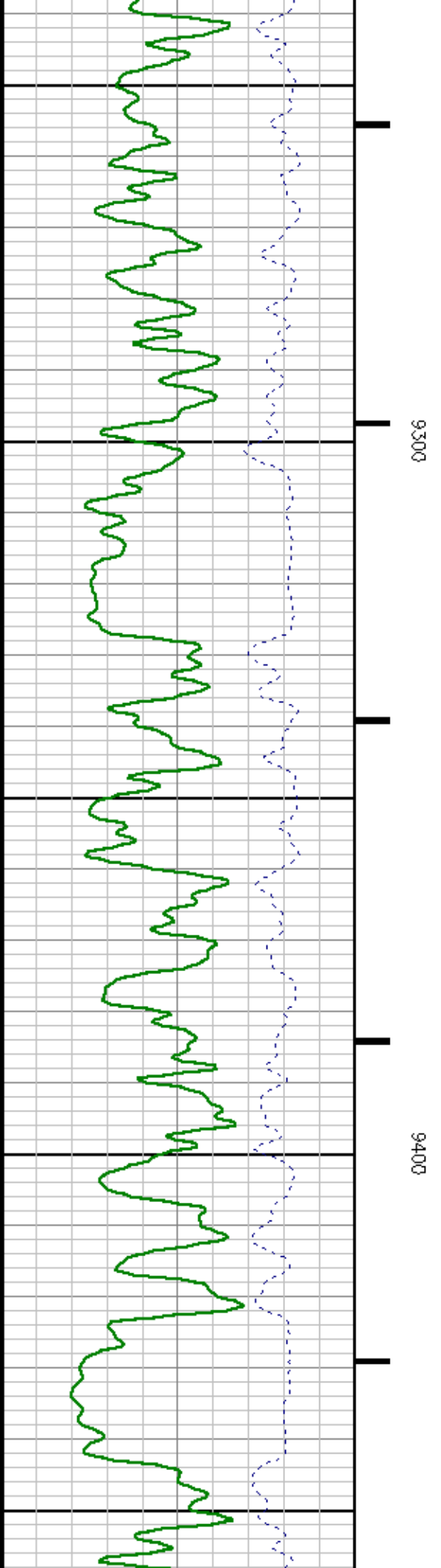
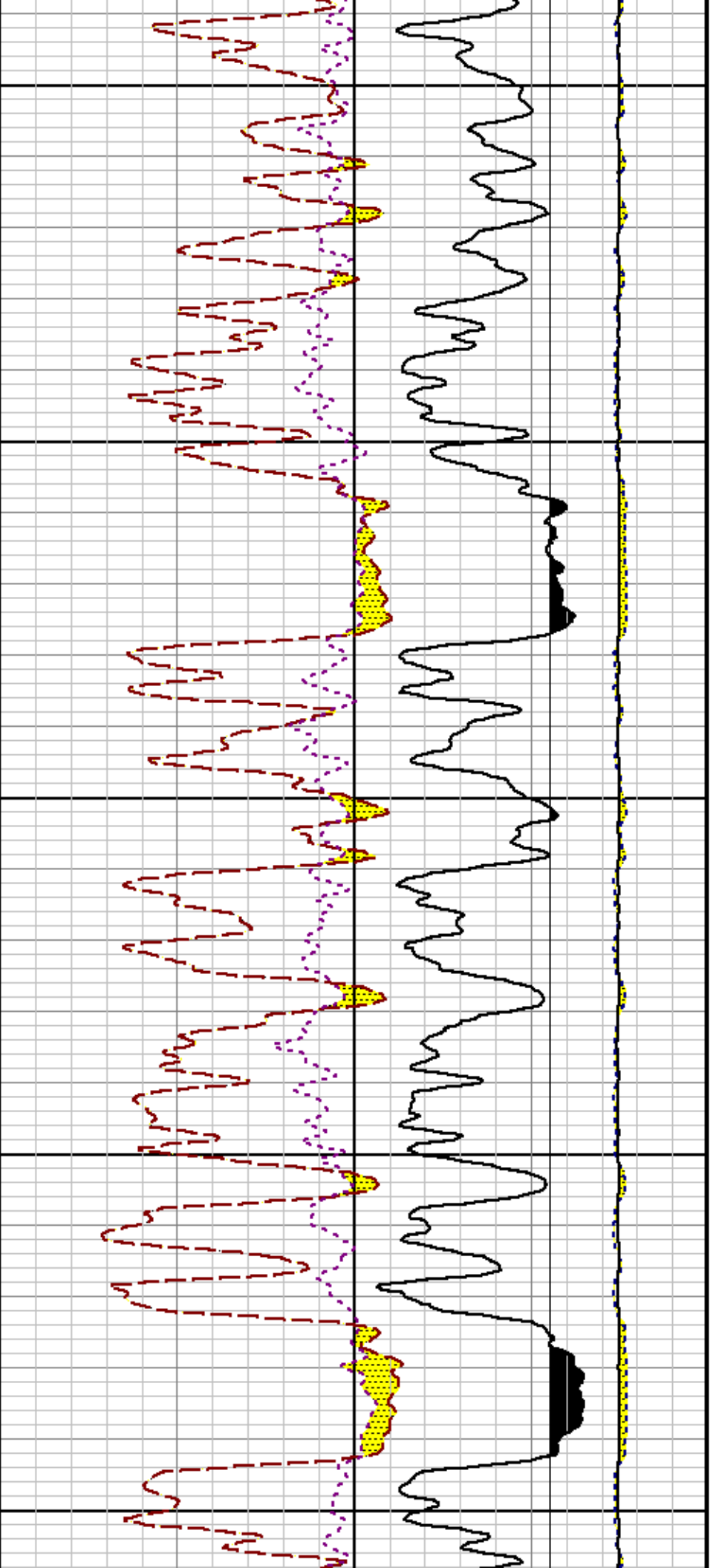
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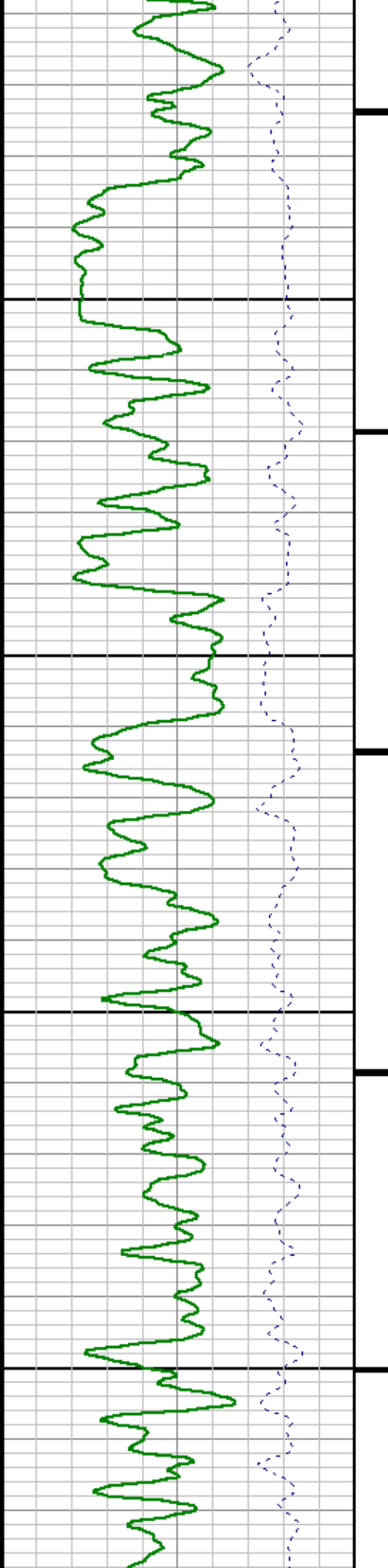
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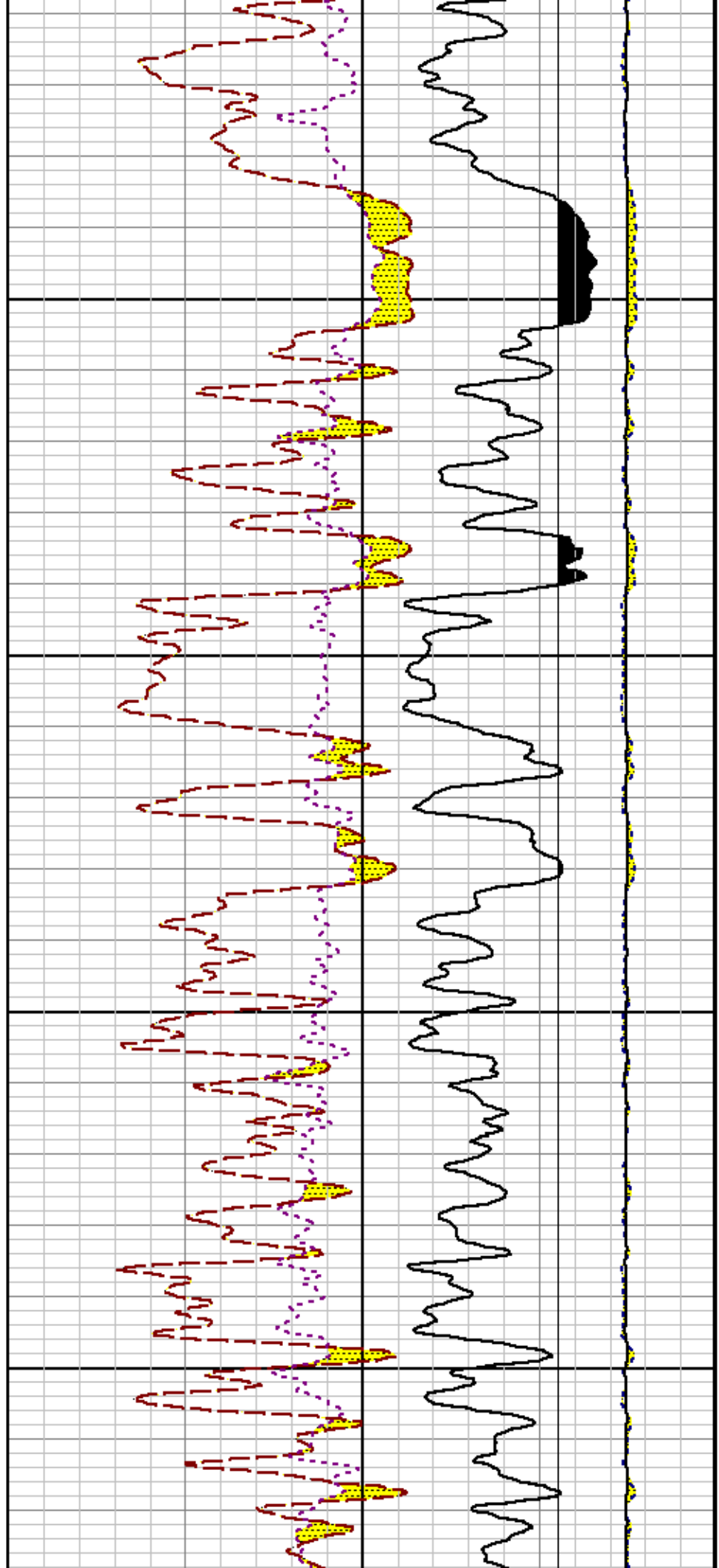


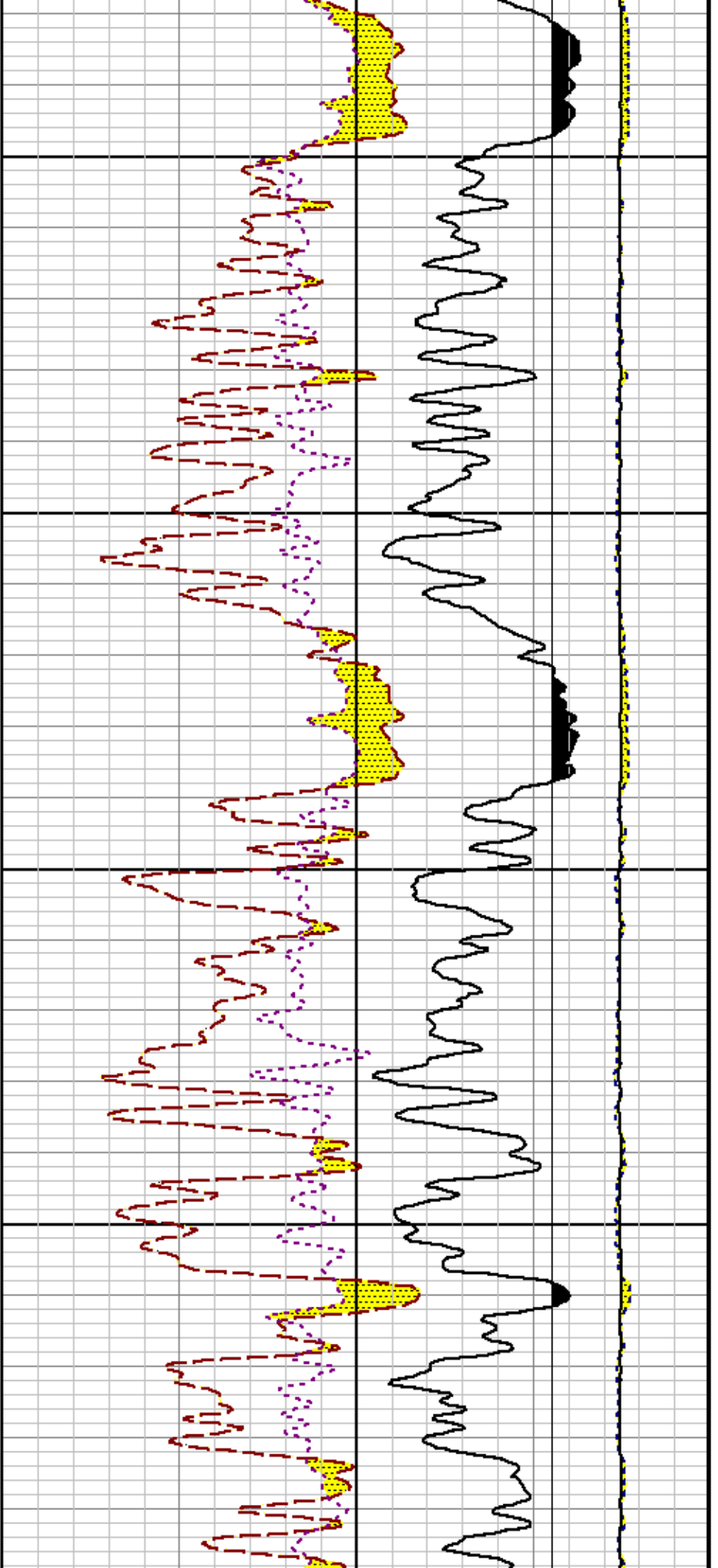




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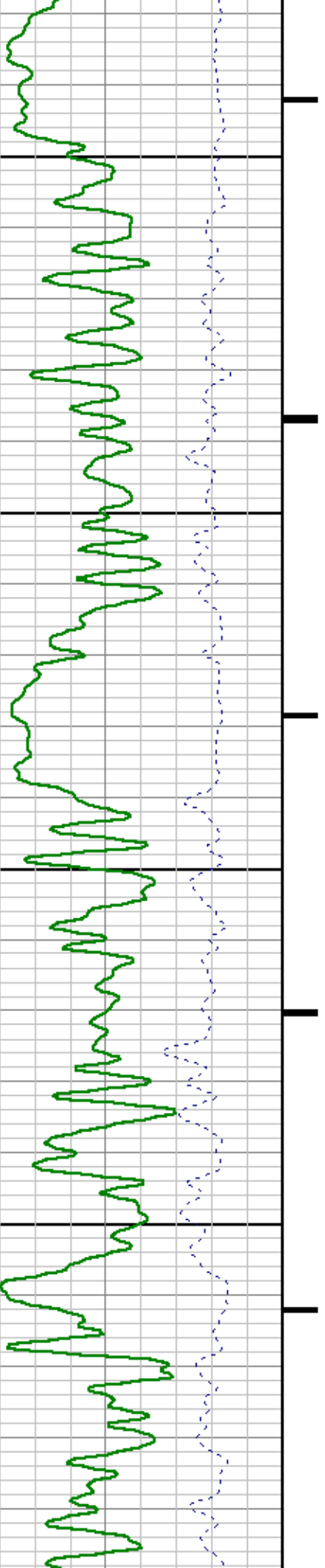


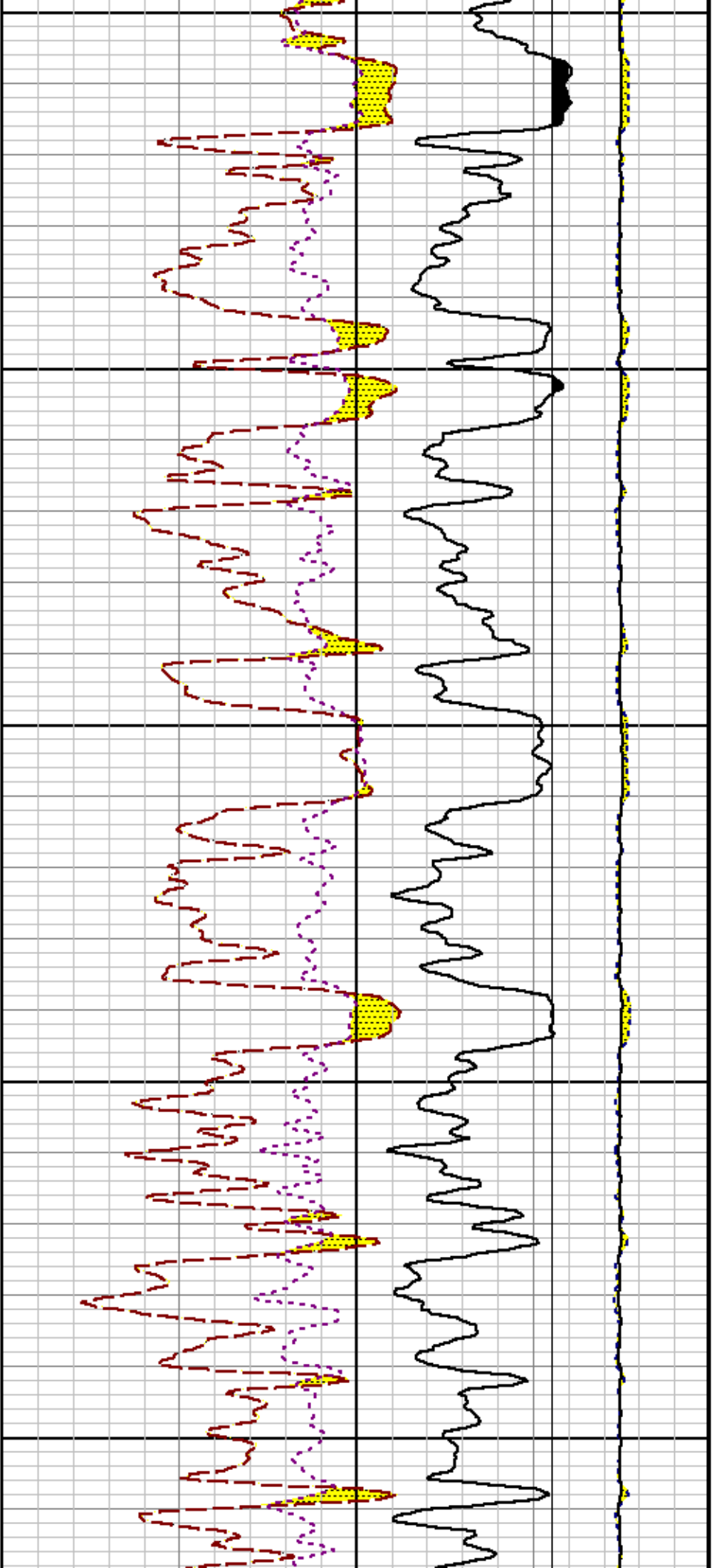


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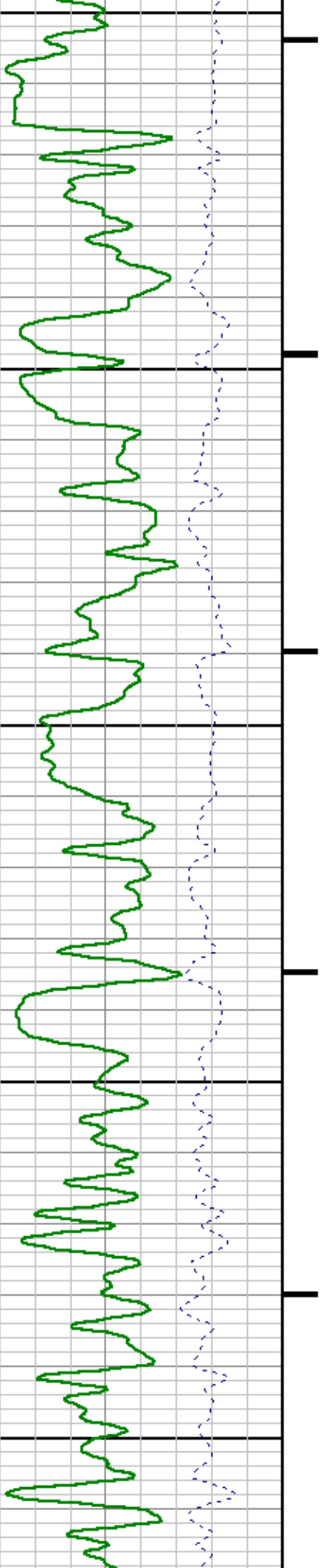


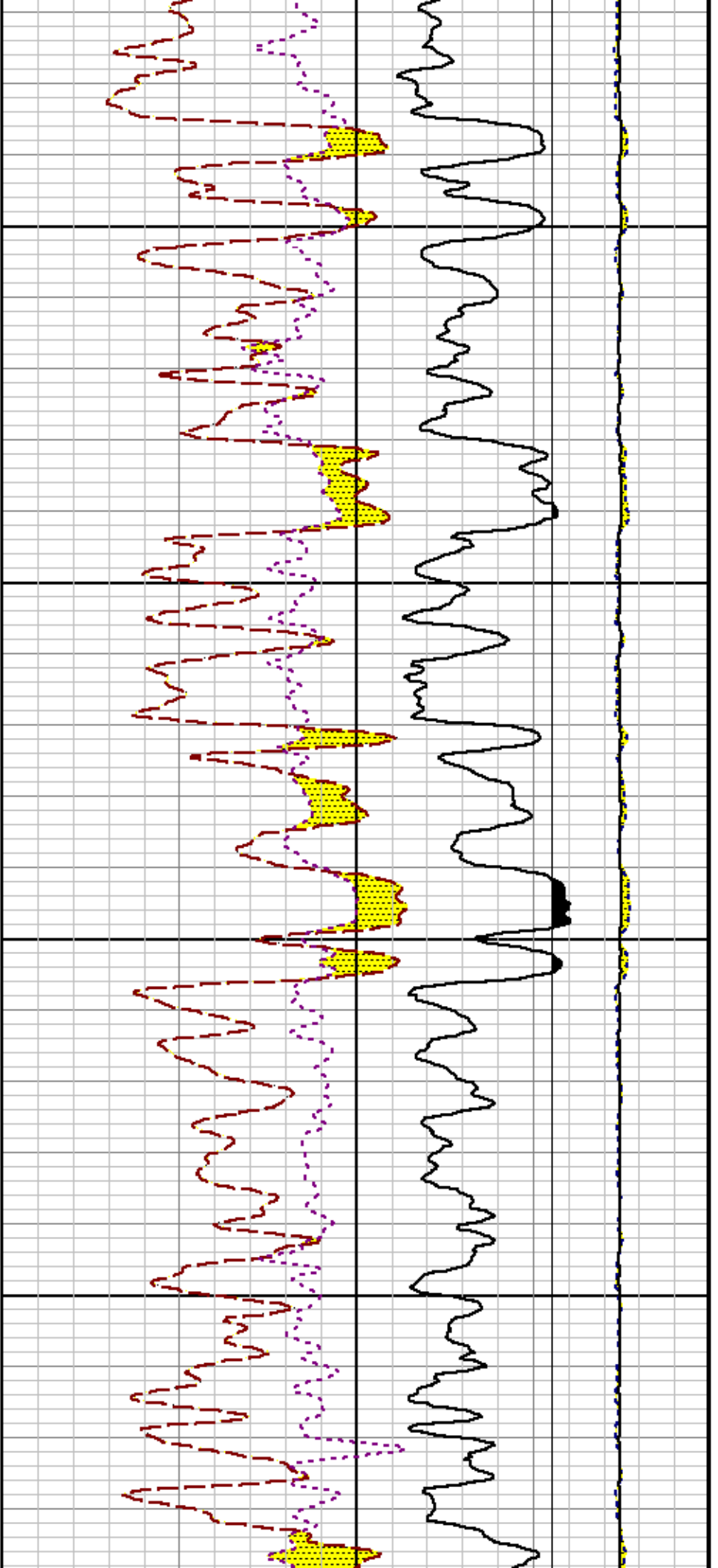


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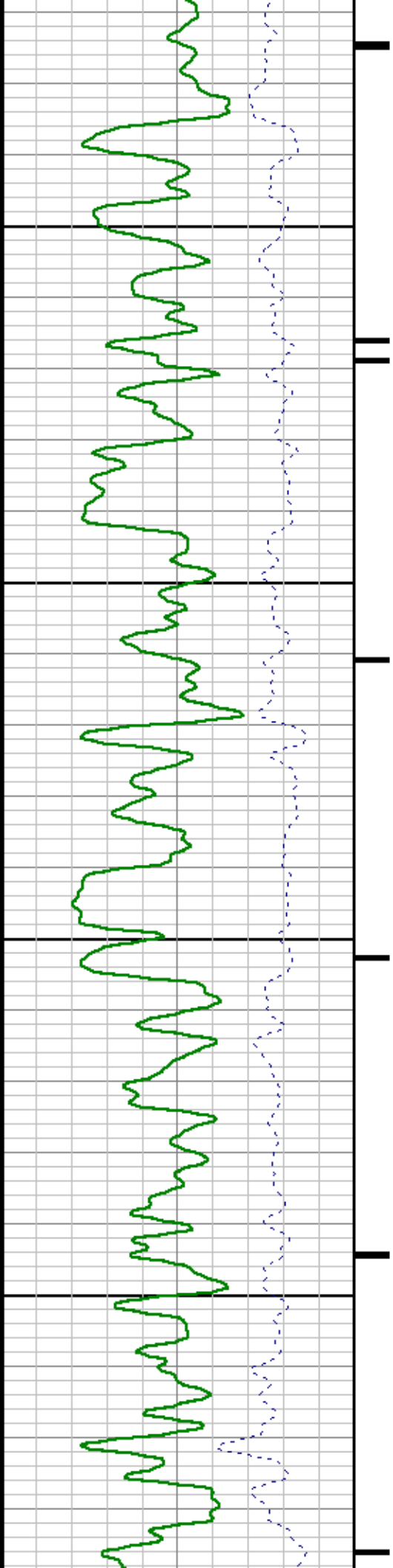
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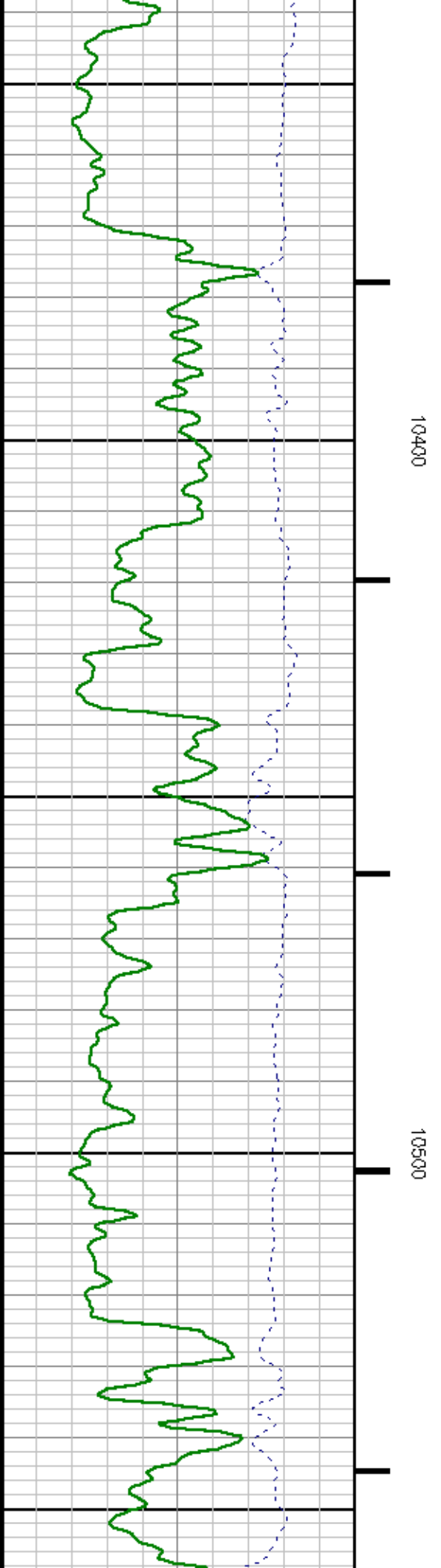
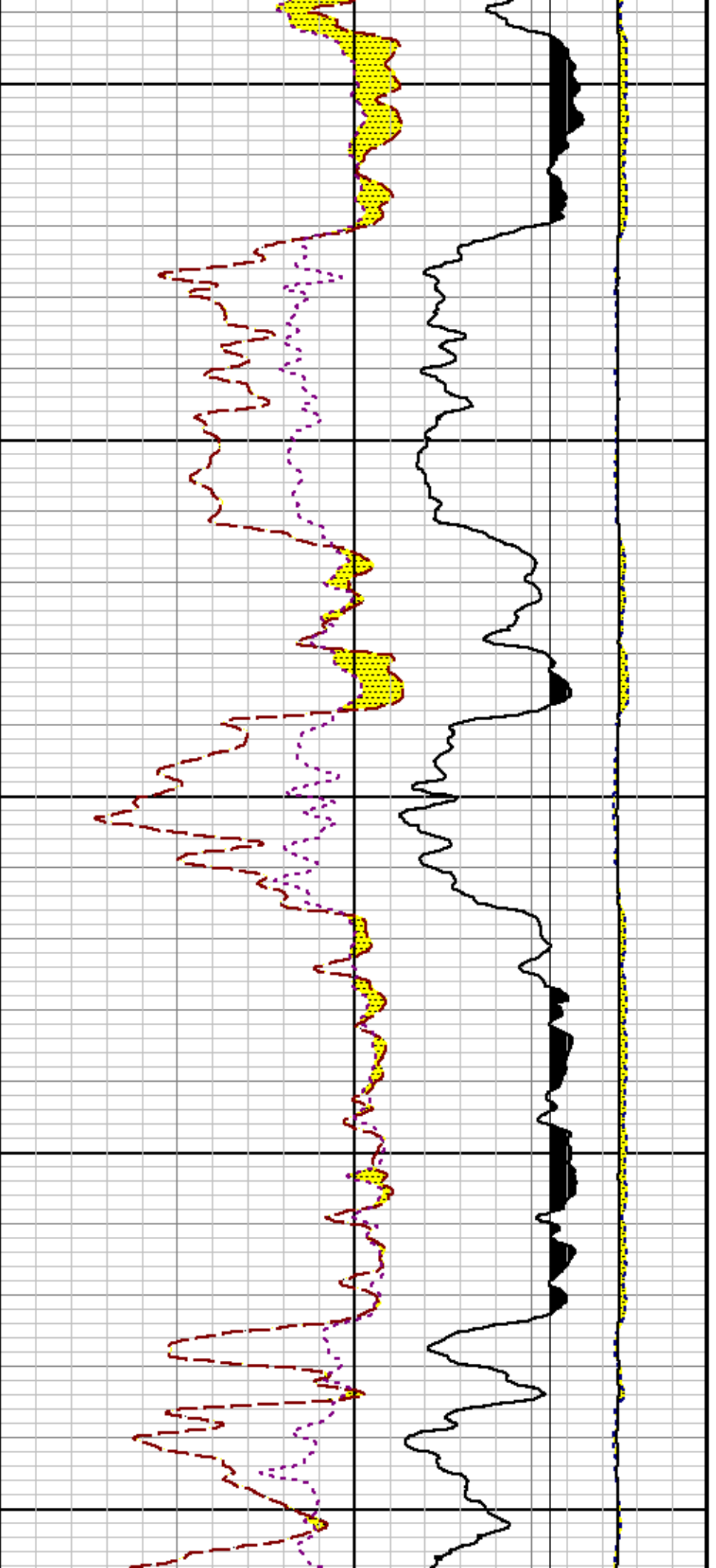


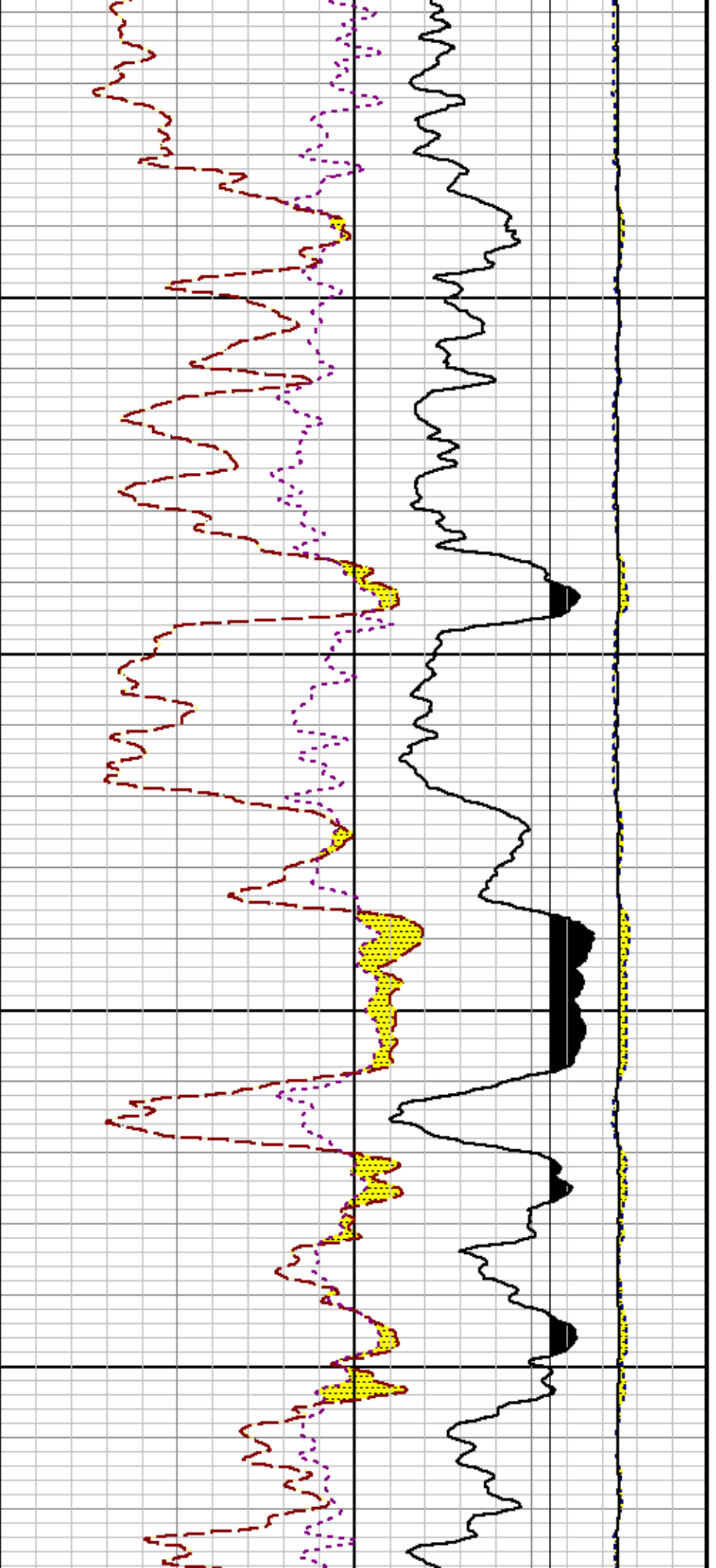


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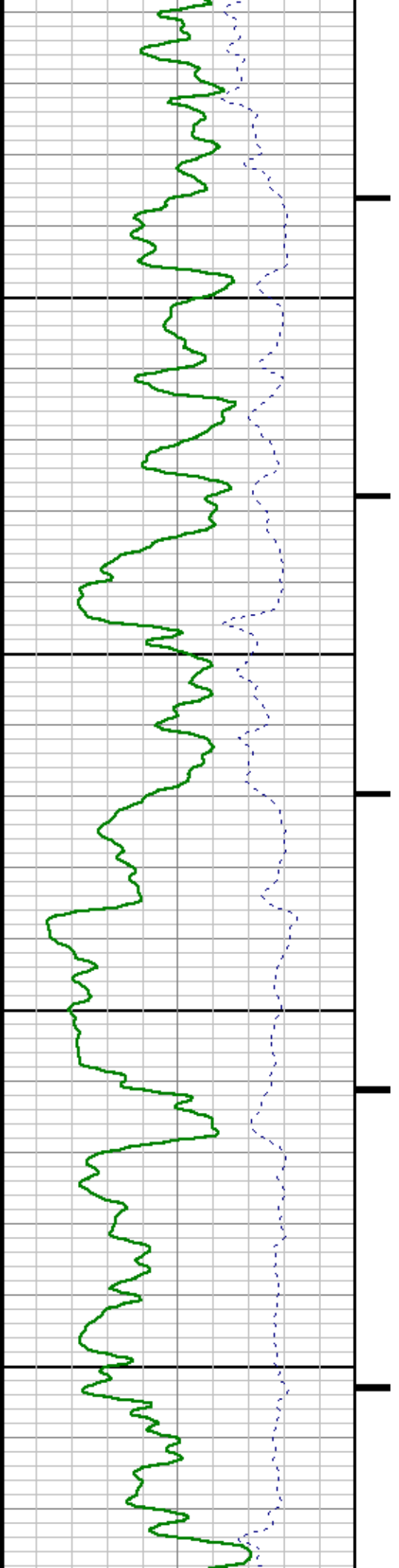


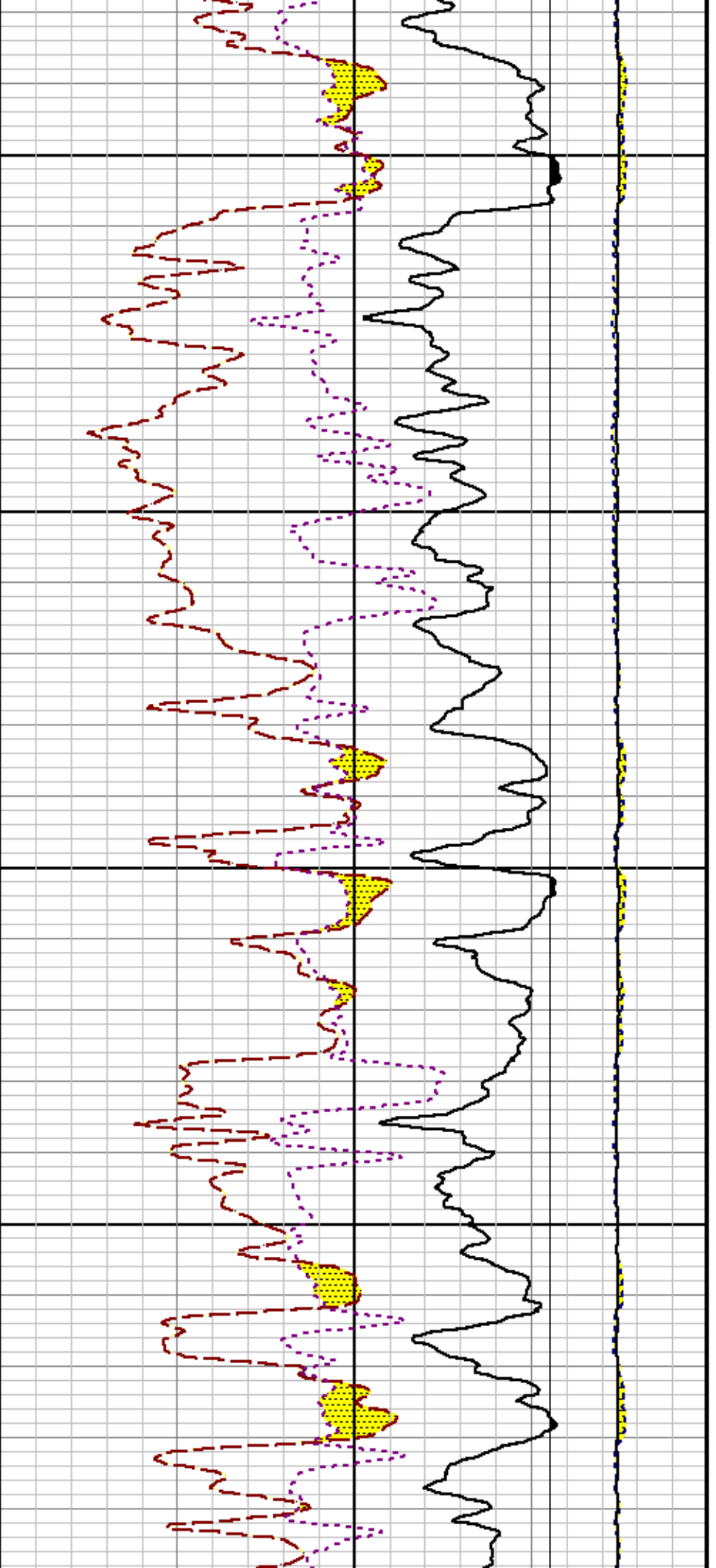




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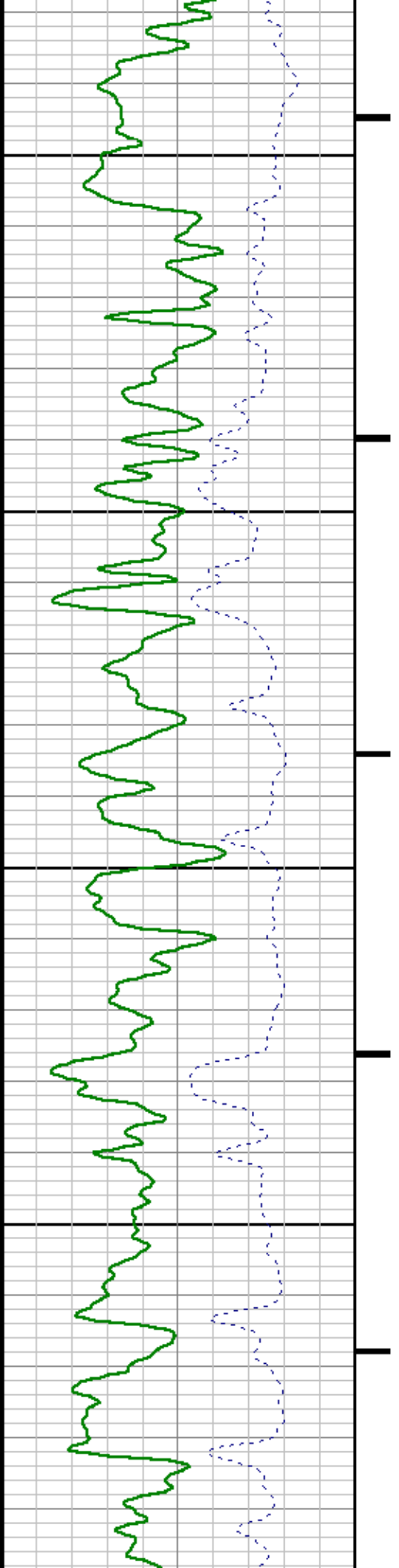


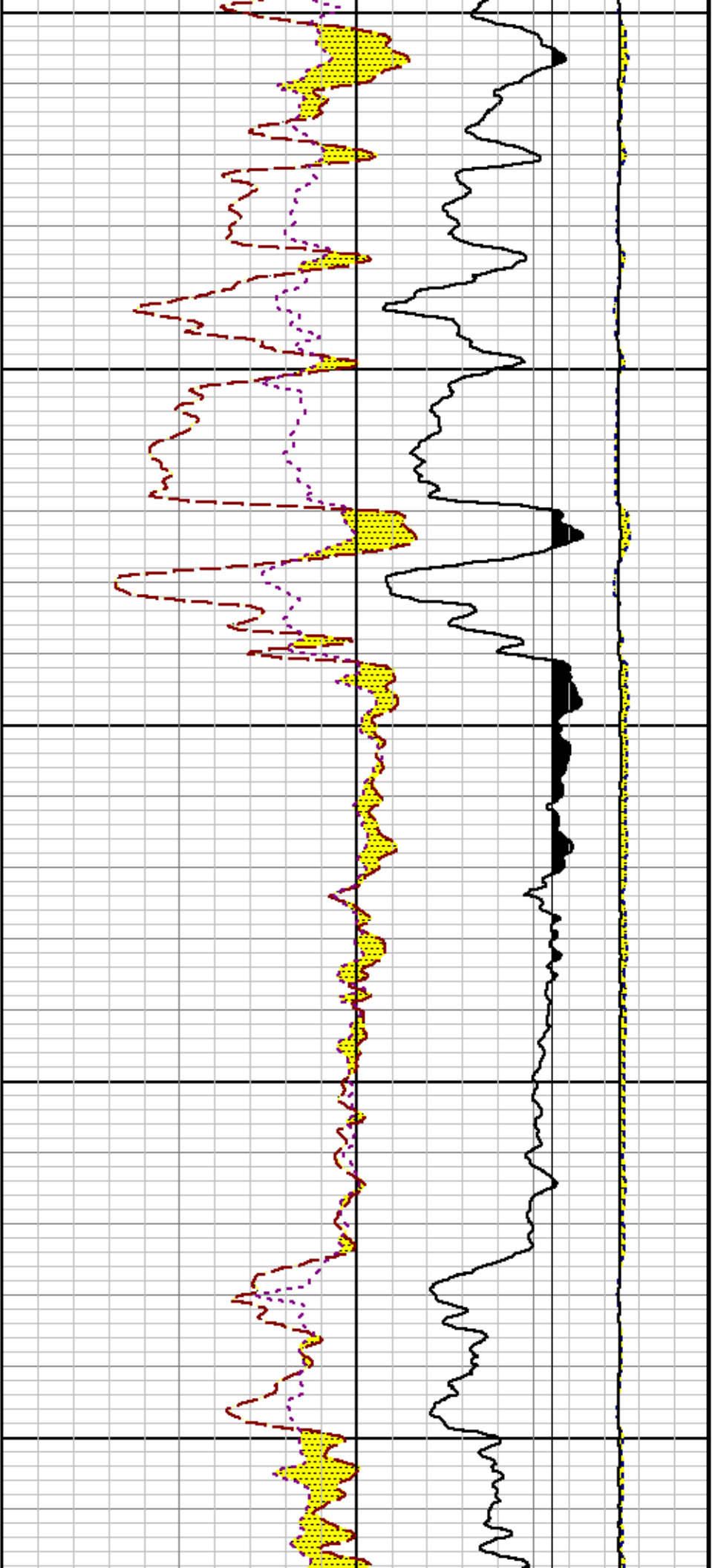


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10900

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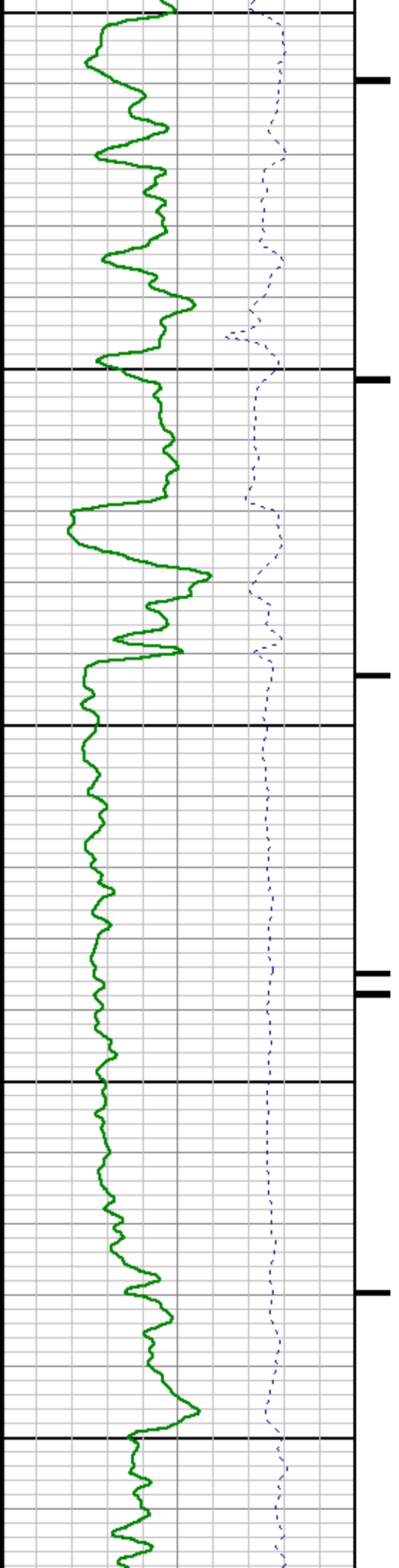


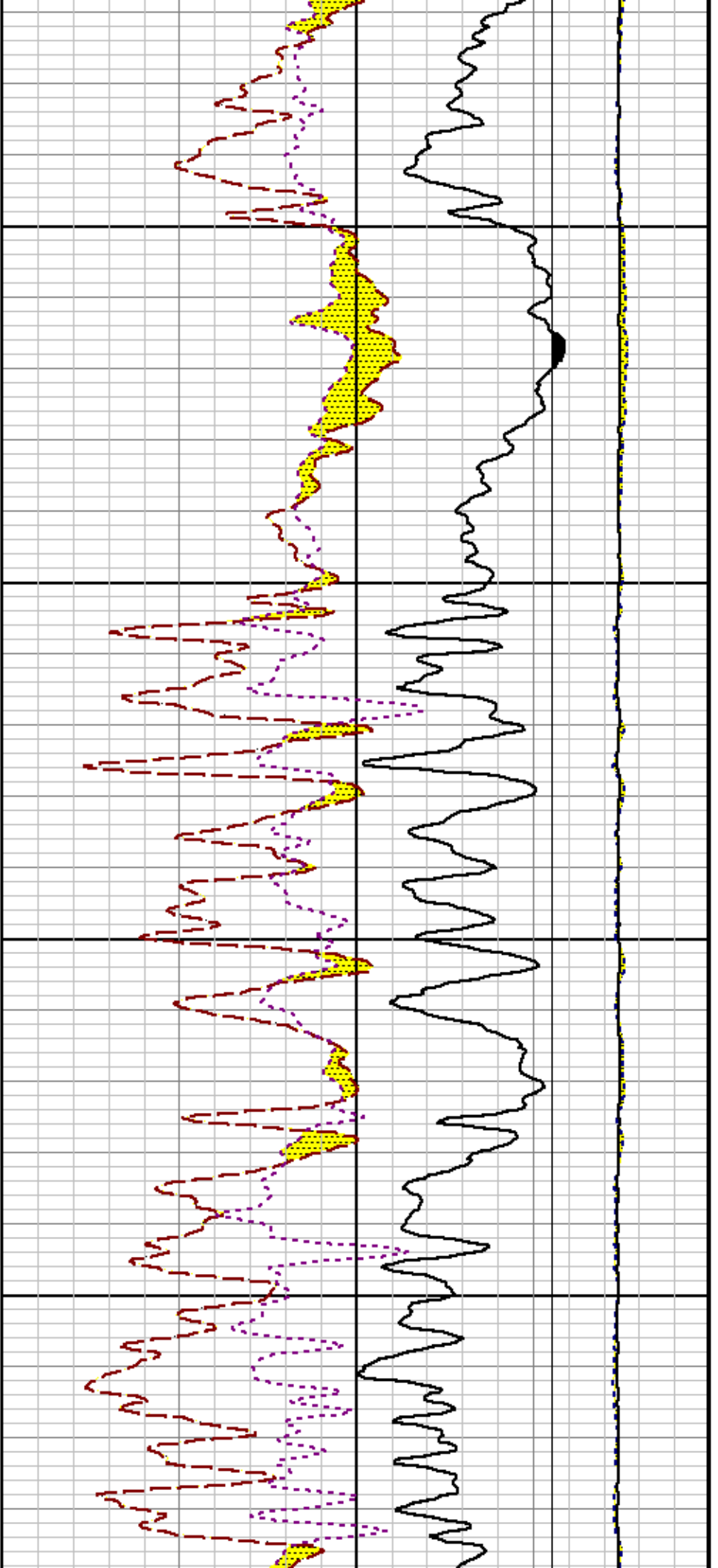


1000

1100

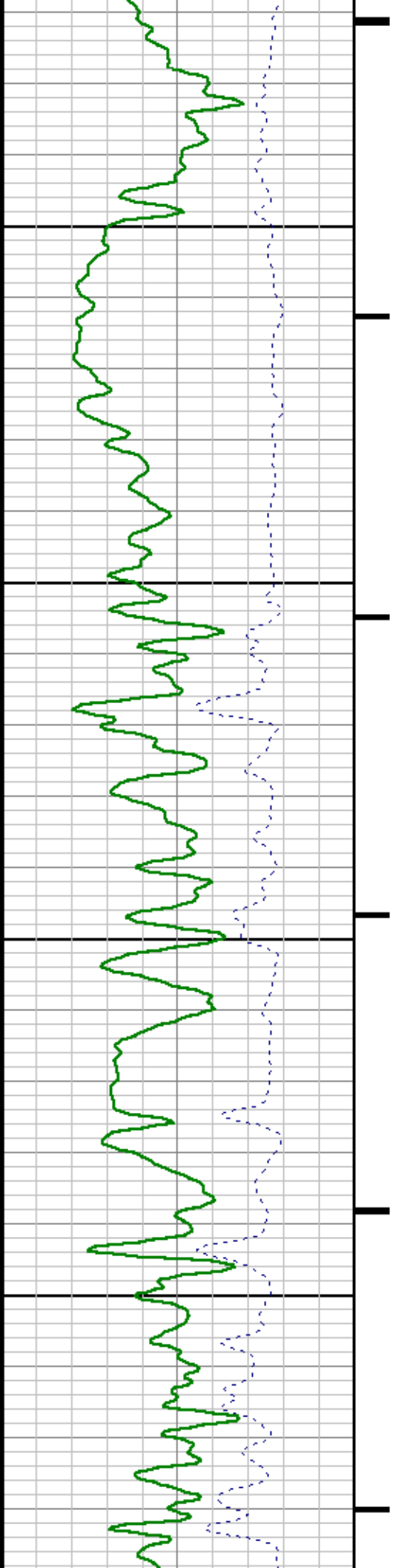
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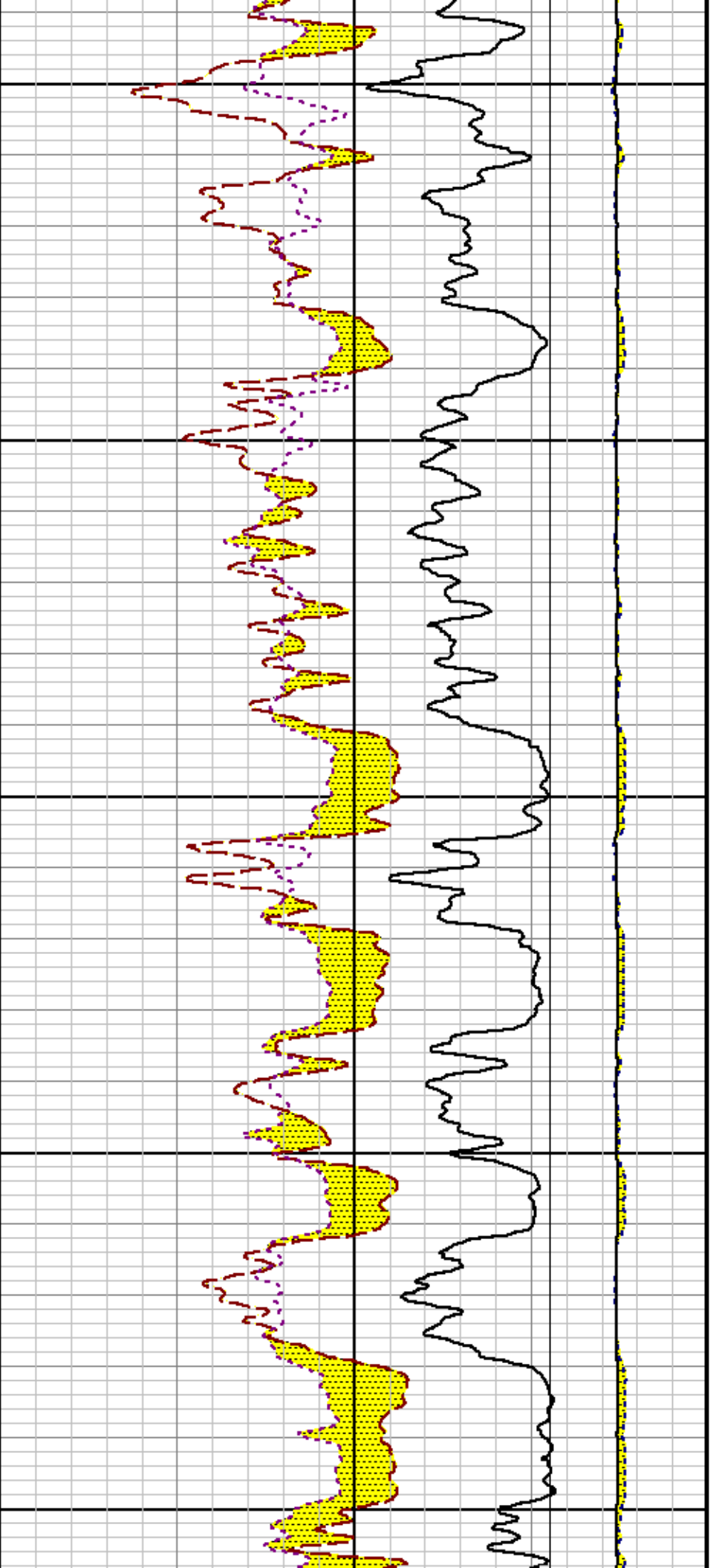




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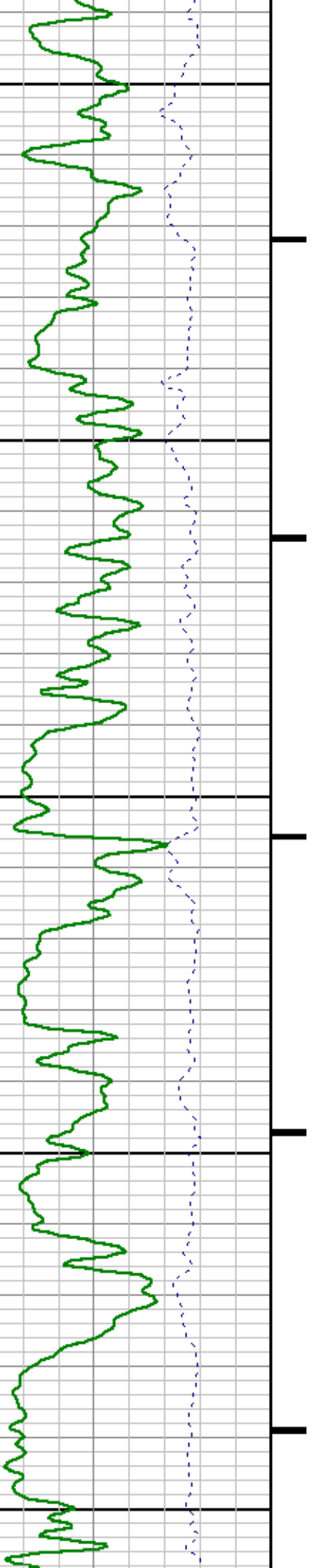
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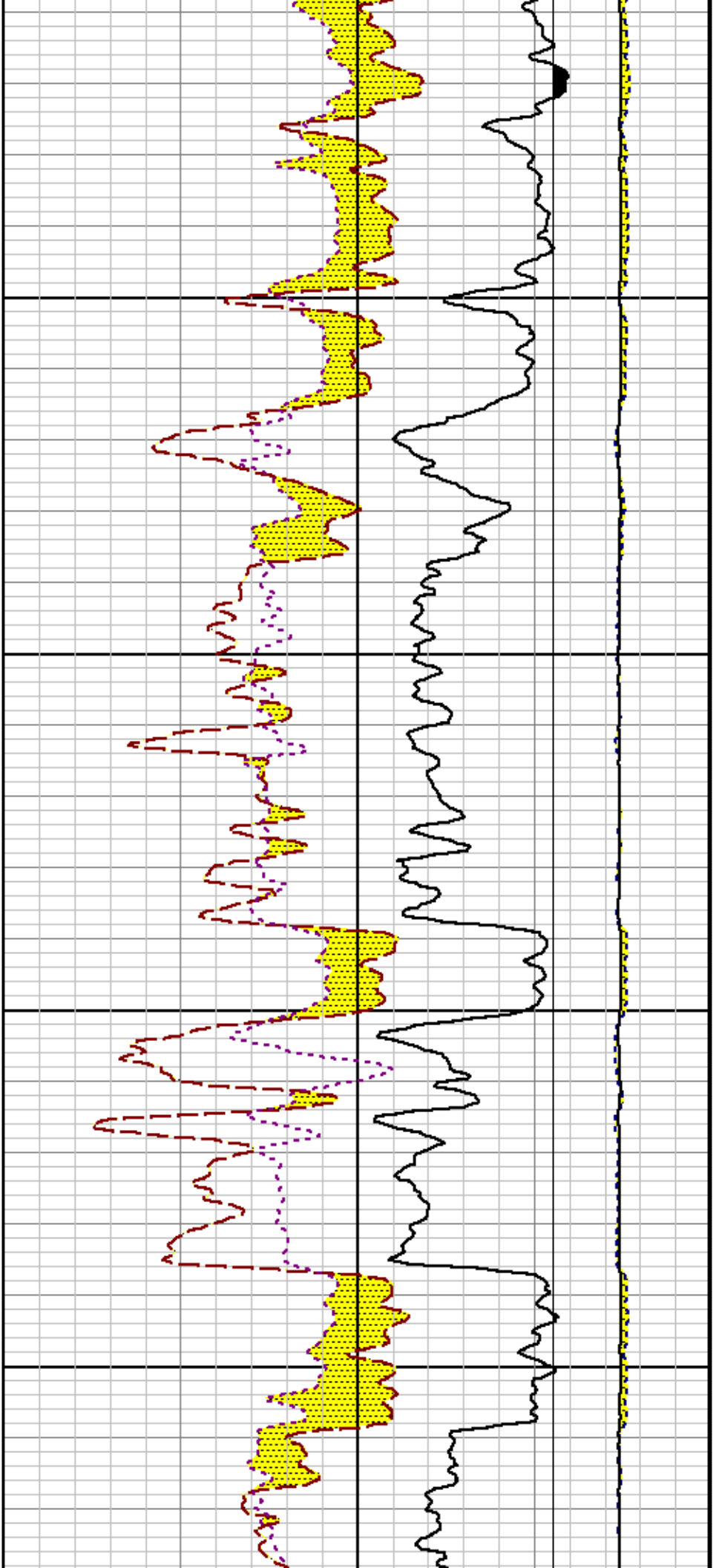




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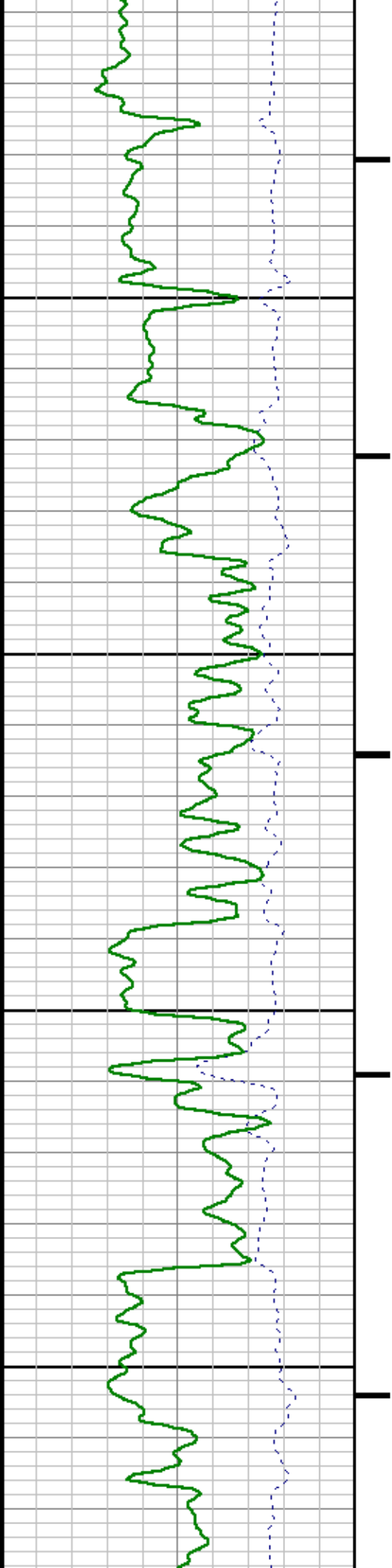
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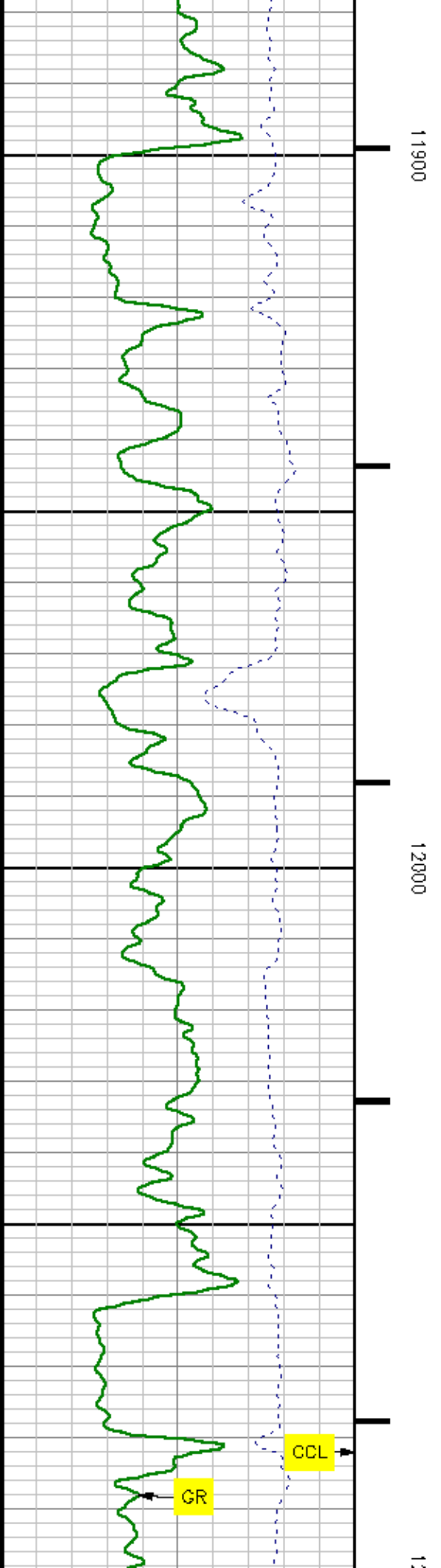
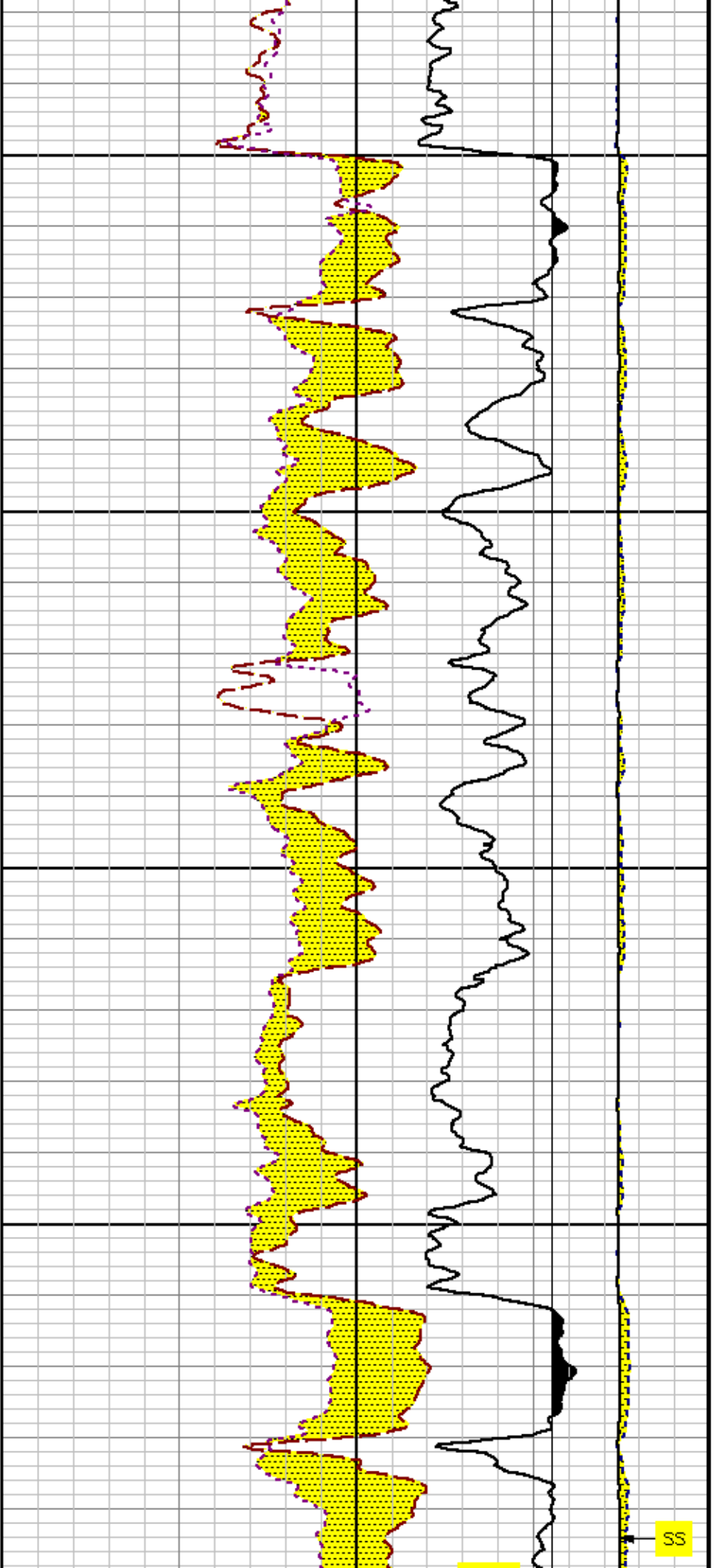


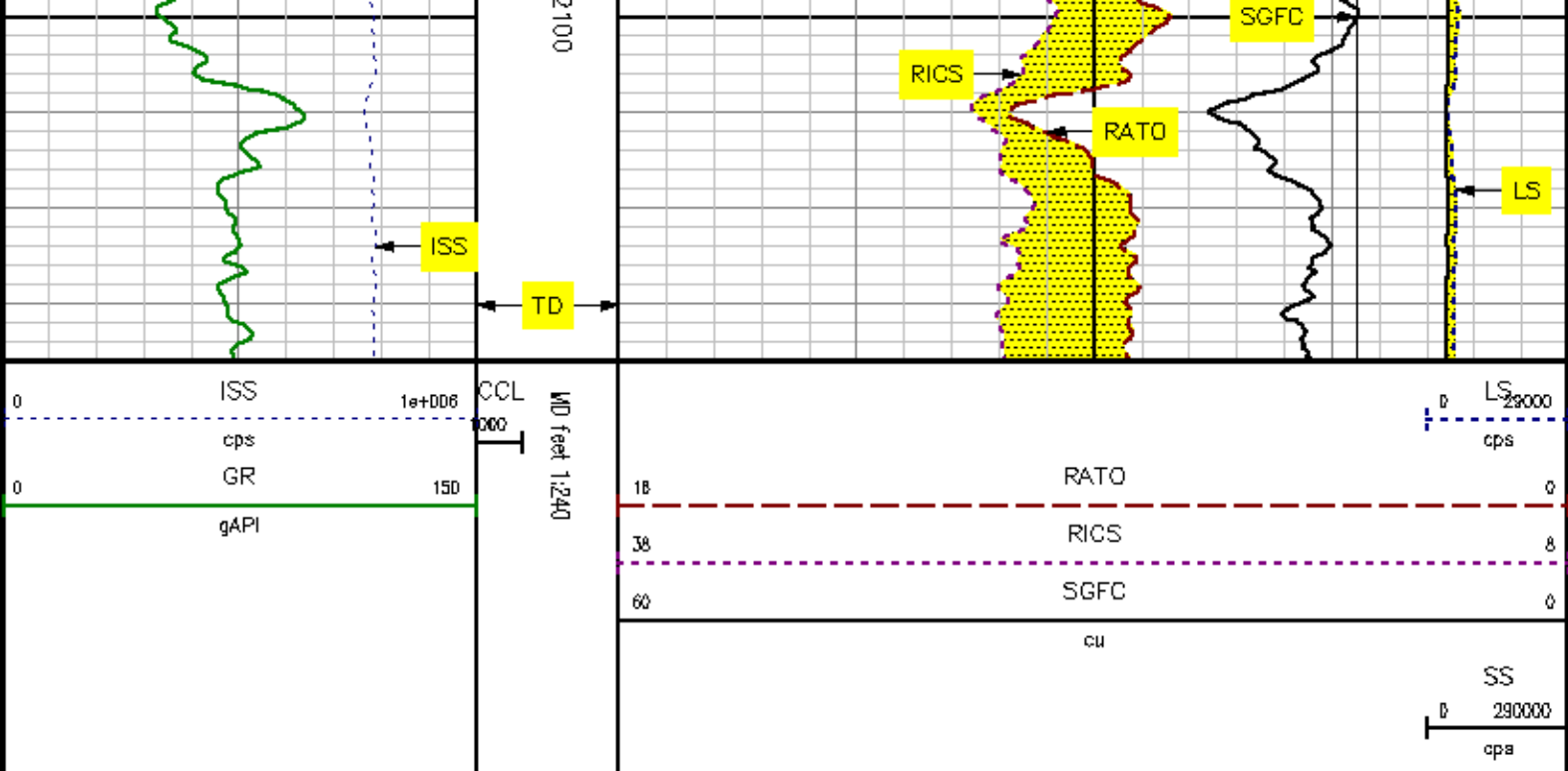


11700

11800







REPEAT SECTION

PNC 3-D MODE

SPL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
PNC Porosity	Borehole	Cased		11699.750	12169.725
PNC Porosity	Borehole Size	6.125	inch	11699.750	12169.725
PNC Porosity	Casing Size	4.500	inch	11699.750	12169.725
PNC Porosity	Gas Filled	Non Gas Filled		11699.750	12169.725
PNC Porosity	Matrix	Sandstone		11699.750	12169.725

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES
8248FA	-15.470	FLTM

8248EA	-13.470	CCL	CHV				
8262XA	-10.189	GR					
8281XA	-0.662	HVC3Q0	SEQ3	AMA3	AML3	BKX	CXS
		GPT3Q0	CPT3Q2	CPT3Q3	CPT3Q4	ET3	IXS
		MCS3	MCS300	QCAL3	RGN3	RICK	SDA3
		SDL3	SGA3	SGL3	STA3	XS	ASPEC3
		AMB3	AMF3	CHF3	IXSC	IXSN	RAT023
		RICX0	RIN130	RIN23	RIN230	SD3D	SG3D
		SGB3	SGF3	WDTH3	CXSR	IXSR	XSR
		RICKR					
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
		AMB1	AME1	AMF1	AML1	BKS	CHF1
		GSS	QORB	QORF	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	MD1S	MD2S
		MD3S	DG1S	DG2S	DG3S	PD1M	PD2M
		PD3M	MD1M	MD2M	MD3M	DG1M	DG2M
		DG3M	MVS	MA	MVM	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	H0C	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 : EXXONMOBILE PRODUCTION COMPANY

Well : FRU 197-33A9

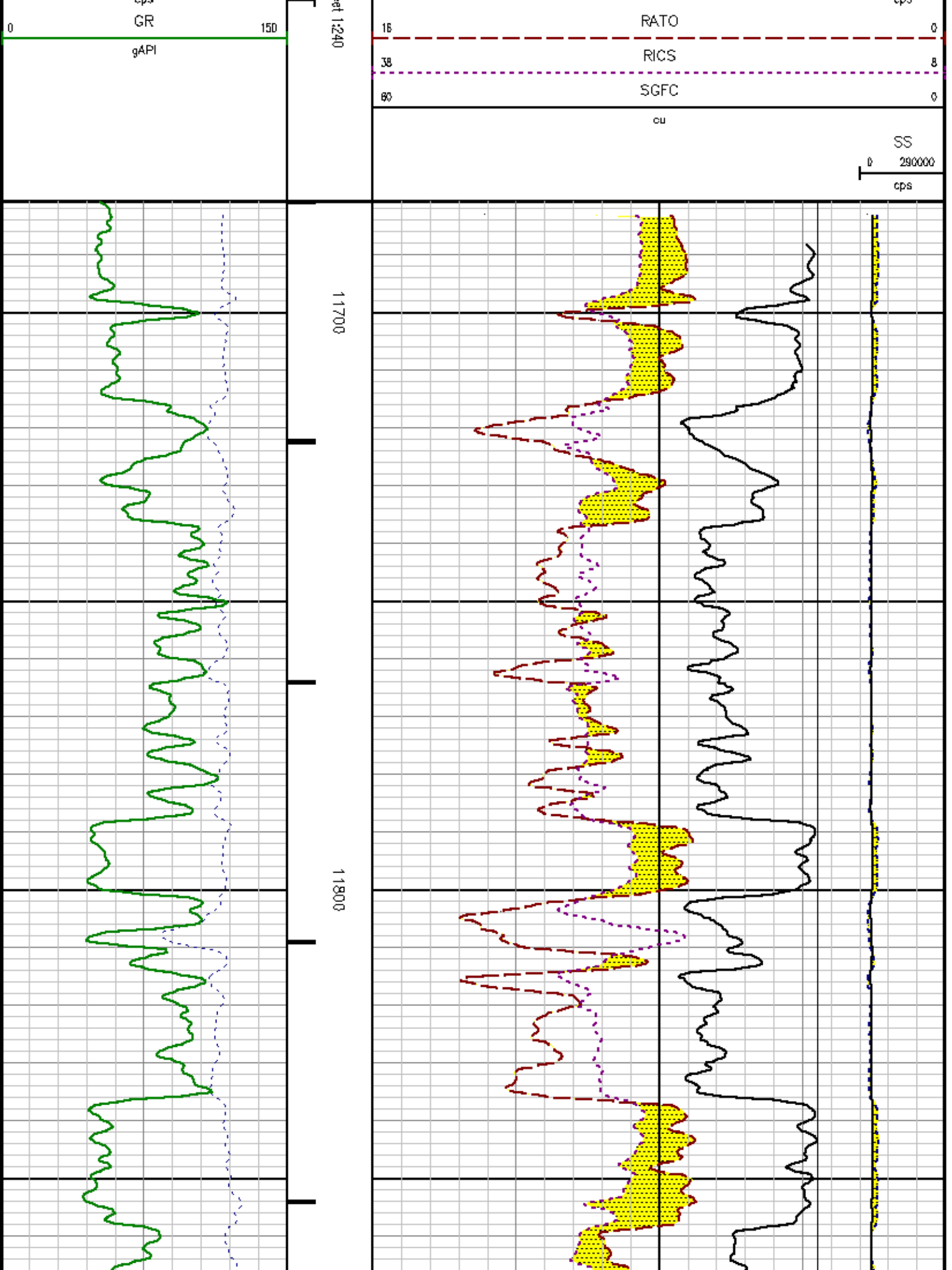
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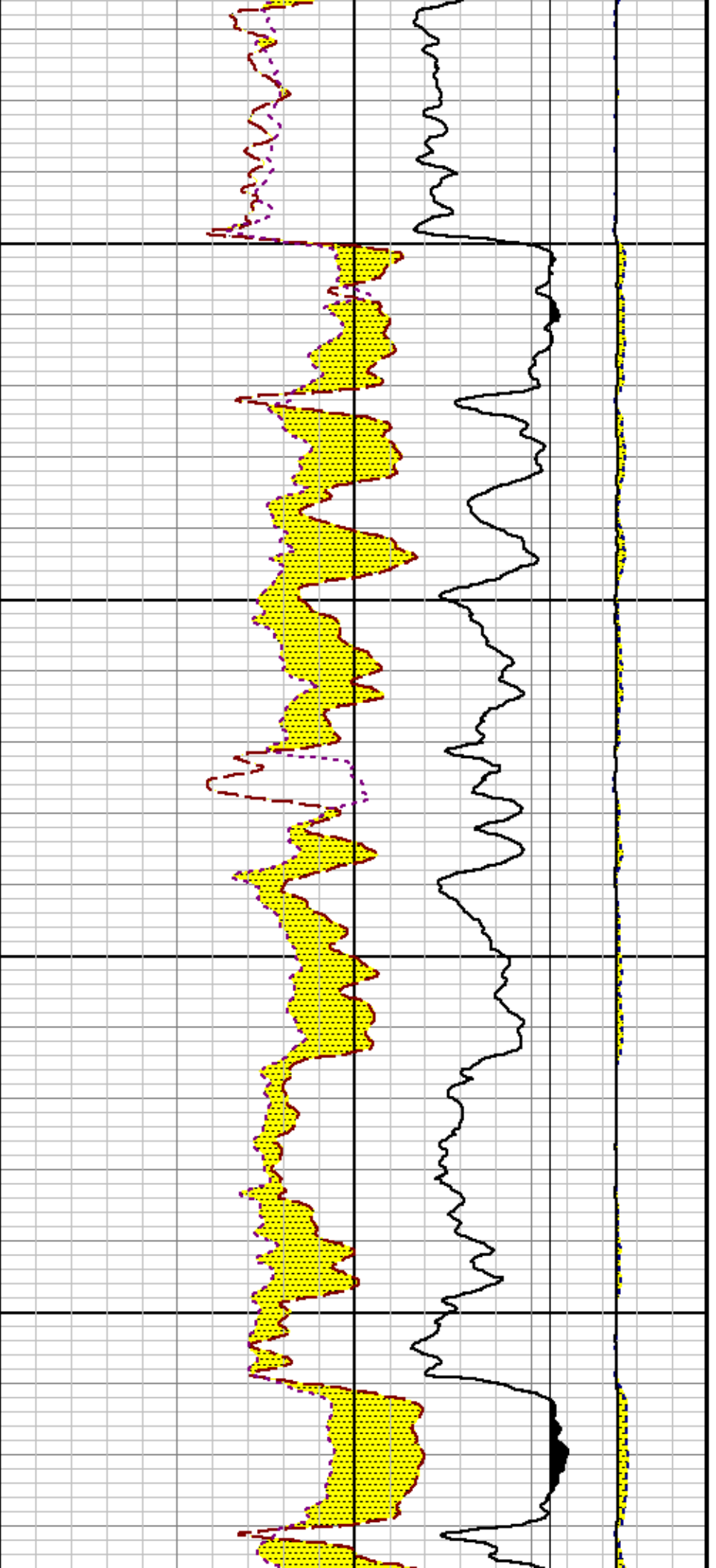
Mode : PlotMgr 5.4.504

Interval : 11680.75 - 12136.00 feet UP

Created : 4/23/2010 9:34:00 AM

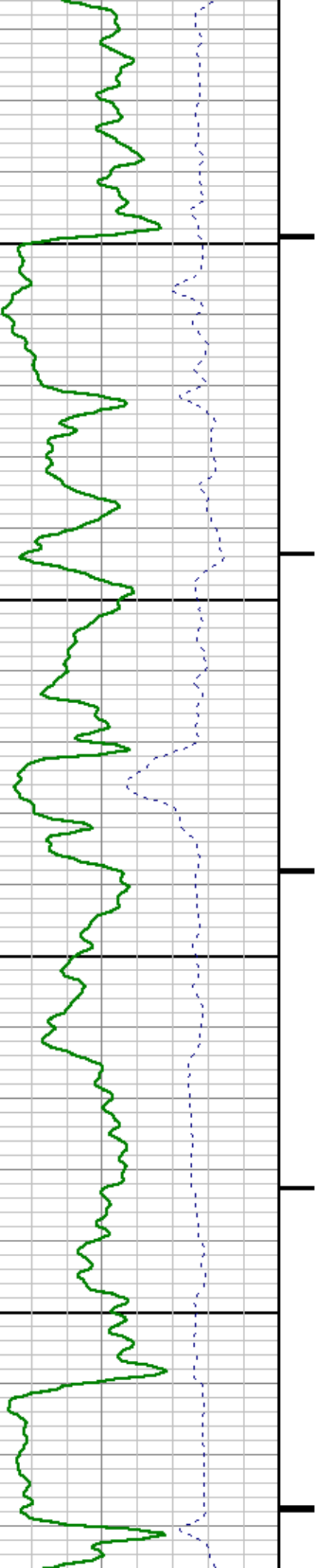


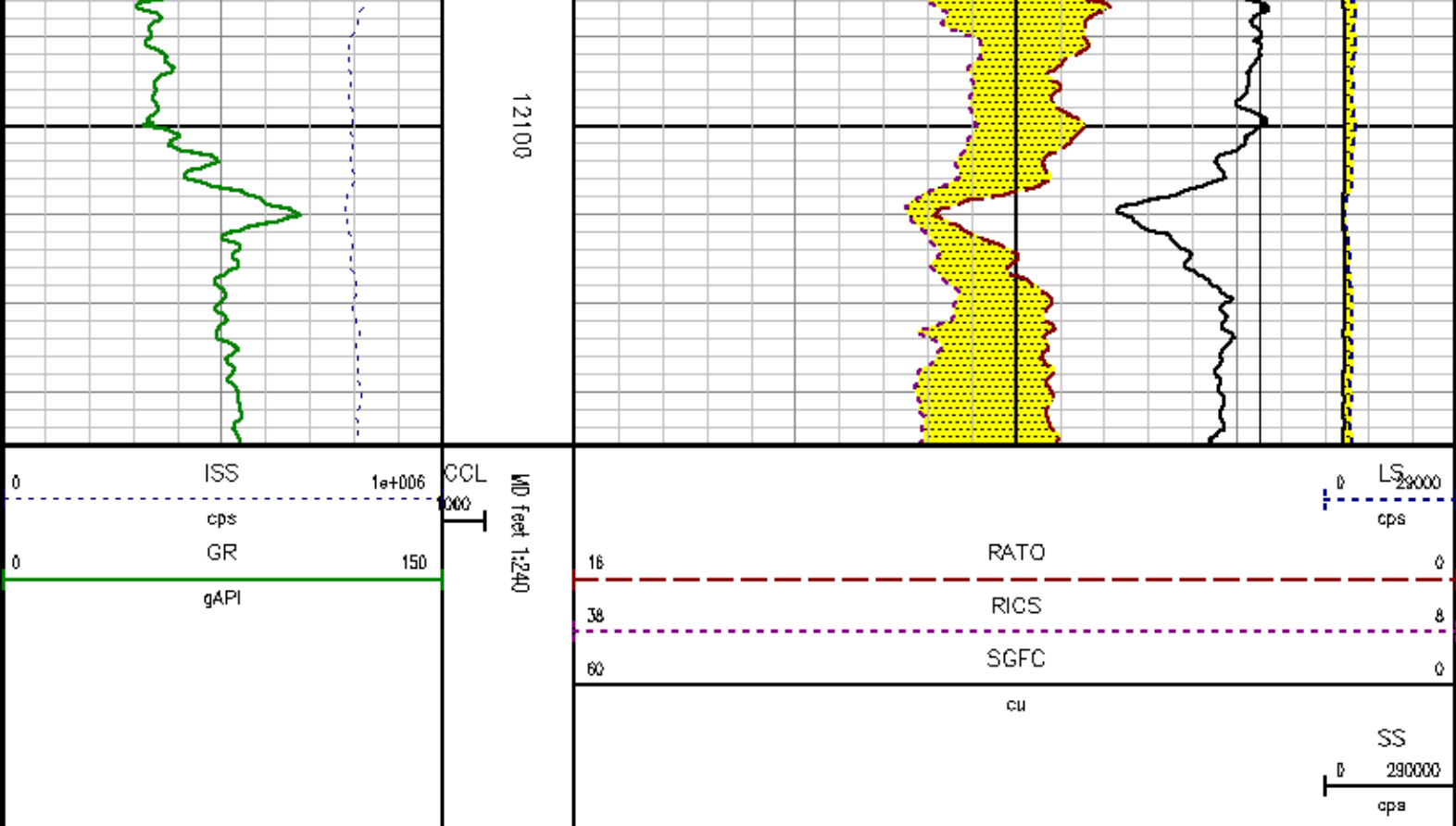




11900

12000





CALIBRATION SUMMARY

GAMMA RAY

Calibration File: C:\case\calver\GR\470A4.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED:	Thu Apr 08 14:16:00 2010	TOOL SERIES:	B262XA	ASSET:	470	SEQ:	A4
Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]	
S2K DA9D5	67.13	415.73	0.516	34.66	214.66	180.00	

Verification File: C:\case\calver\GR\470A4.VP

PRIMARY VERIFICATION

DATE/TIME PERFORMED:	Thu Apr 08 14:20:47 2010	TOOL SERIES:	B262XA	ASSET:	470	SEQ:	A4
Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]	
S2K DA9D5	66.40	415.82	0.516	34.29	214.71	180.42	

PNC

Calibration Files C:\case\calver\PNC\555A1.cal

PNC 3D CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Mar 26 11:57:30 2010 TOOL SERIES: B281XA ASSET: 555 SEQ: A1

Calibrator #

SHOP SHOP

Source #

B281AA 10591909

	ISS	Mtr Vltz (V)	SS Gain	LS Gain	XLS Gain	EA Temp (degF)	Sync Delay (usec)	RCAL
Raw Data	807340	124.00	2269.00	2267.00	2226.00	105.35	15.00	0.9681
Interpolated	1300000	147.47	2253.45	2260.87	2228.17			

	ISS	BKS	BKL	BKX	SGA1	SDA1	SGA2	SDA2
Raw Data	807340	8469.70	1336.32	561.38	26.00	0.13	24.47	0.26
					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	807340	176708.13	27093.06	100158.80	35550.57	9177.70	60695.15	14758.51
Fit Quality %		1.34	1.10	1.21	1.23	1.24	1.15	1.30

	ISS	RBOR	RIN ISS/ILS	RIN13 ISS/IXS	RICS ISS/CSS	RATO SS/LS	RTWO SS2/LS	RONE CSS/CLS
Raw Data	807340	1.43	4.57	29.80	13.30	10.91	3.87	4.11
		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 %		0.02	0.06	0.17	0.13	0.08	0.11	0.14
Reduced	1405557	1.43	4.58	29.89	13.31	10.92	3.88	4.12
		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

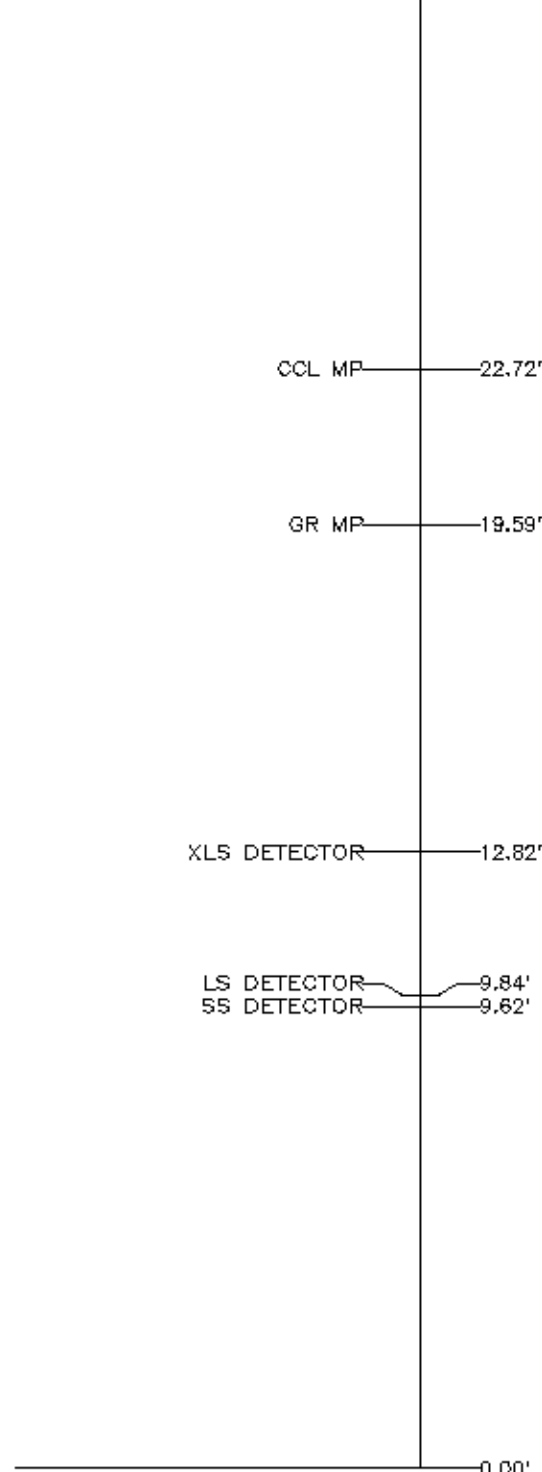
TOOL DIAGRAM

PCM POWER SUPPLY	
Series	8250EA
Mnemonic	PCM
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	3.02'

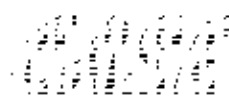
RESERVOIR PERFORMANCE MONITOR	
Series	8281XA
Mnemonic	RPM
Diameter	1.70"
Weight	75.00 lb
Length	18.58'
Measure Point	9.49' SS DETECTOR
Measure Point	9.72' LS DETECTOR
Measure Point	12.69' XLS DETECTOR
Temp Rating	350.00 °F
Press Rating	20000.00 PSI



Total Length: 30.81'
Total Weight: Not Available
Max Diameter: 0' 1.70"



Baker Atlas



Company	EXXONMOBILE PRODUCTION COMPANY		
Well	FRU 197-33A9		
Field	PICEANCE CREEK		
County	RIO BLANCO	State	COLORADO

File No:	1727
API No:	06103114000000

Location	Elevations
SHL: 880' FSL & 2306' FEL	KB 6417.4 ft
	DF 6416.4 ft
	GL 6388 ft

