



RESERVOIR PERFORMANCE MONITOR

Baker Atlas

File No:	Company	MARATHON OIL COMPANY
1260	Well	696-6A-13
API No:	Field	GRAND VALLEY
06-046-18647-0000	County	GARFIELD
	State	COLORADO
	Location	Other Services
	693' FSL & 335' FEL	3,791' GAUGE BOND
	SEC 8 TWP 6S RGE 96W	
Permanent Datum	G.L.	Elevation
Log Measured From	K.B.	24 ft Above P. D.
Drill Measured From	KELLY BUSHING	KB 8109 ft DF 8108 ft GL 8085 ft

Date	25-JUNE-2008	
Run	ONE	
Service Order	574817	
Depth Driller	10358 ft	
Depth Logger	10348 ft	
Bottom Logged Interval	10348 ft	
Top Logged Interval	8894 ft	
Time Started	07:00	
Time Finished	18:00	
Operator Rig Time	9 HRS	
Type of Fluid in Hole	WATER	
Fluid Density	N/A	
Salinity	N/A	
Fluid Level	FULL	
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	BA/BOND	
Reference Log Date	24-JUNE-08	
Equipment No.	8711	VERNAL, UT
Recorded By	TIM KAUTT	
Witnessed By	MR. DOUG EPPERSON	

- 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
14.75 in		
9.75 in		

Casing Record				
Size	Weight	Grade	From	To
9.825 in	36 lbm/ft	J-55	SURFACE	2285 ft
4.5 in	11.6 lbm/ft	P-110	SURFACE	10358 ft

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	RPM	B281FA	10406306	FREE
1	1	RPM	B281PA	10189251	FREE
1	1	RPM	B281EA	10159654	FREE
1	1	GAUSSA RAY	B282XA	7218	FREE
1	1	CCL	B248EA	10306395	FREE
1	1	PCM	B250EA	151000	FREE

MAIN SECTION IN PNC 3-D MODE

SPL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
PNC Porosity	Borehole	Cased		4669.959	5560.000
PNC Porosity	Borehole Size	8.750	inch	4669.959	5560.000
PNC Porosity	Casing Size	4.500	inch	4669.959	5560.000
PNC Porosity	Gas Filled	Non Gas Filled		4669.959	5560.000
PNC Porosity	Matrix	Sandstone		4669.959	5560.000

DEPTH OFFSETS (for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
B248EA	-15.470	FLTW					
B248EA	-13.470	OCL CHV					
B262XA	-10.189	GR					
B281XA	-0.662	HVC3Q0	SEQ3	AMA3	AML3	BKX	CXS
		CPT3Q0	CPT3Q2	CPT3Q3	CPT3Q4	ET3	IXS
		MCS3	MCS3Q0	QCAL3	RGN3	R1CX	SDA3
		SDL3	SGA3	SGL3	STA3	XS	ASPEC3
		AMB3	AMF3	CHF3	IXSC	IXSN	RATQ23
		R1CX0	R1N13C	R1N23	R1N23C	SD3D	SG3D
		SGB3	SGF3	WDTH3	CXSR	IXSR	XSR
		R1CXR					
		HVC2Q0	SEQ2	AMA2	AMB2	AMF2	AML2
		BKL	CHF2	CLS	CPT2Q0	CPT2Q2	CPT2Q3
B281XA	-0.250	CPT2Q4	ET2	ILS	LS	MCS2	MCS2Q0
		QCAL2	RGN2	R1CL	R0NE23	RTW023	SDA2
		SDL2	SGA2	SGB2	SGF2	SGK2	SGL2
		STA2	ASPEC2	ILSC	ILSN	WDTH2	R1CLC
		CLSR	ILSR	LSR	R1CLR		
		CPRS	HVC1Q0	MY	SEQ	SEQ1	AMA1
		AMB1	AME1	AMF1	AML1	BKS	CHF1
		CSS	CORR	CORF	CPT1Q0	CPT1Q2	CPT1Q2A

CPT1Q2B	CPT1Q2C	CPT1Q3	CPT1Q4	CPT1Q5	ET1
G1	G2	GE1S	GE2S	ISS	MCS1
MCS1Q0	QA1	QCAL1	QM1	RAT0	RAT013
RBOR	RGN1	RIGS	RIN	RONE	RPOR
RTW0	RIN13	RONE13	RTW013	SALB	SC1
SDA1	SDL1	SGA1	SGB1	SGBC	SGE1
SGF1	SGFC	SGK1	SQL1	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	HOC	FE2XC	ISSC	RINC
ISSN	RDEN	WIDTH1	RICSC	CSSR	G1R
G2R	ISSR	SSR	SS2R	RATOR	RAT013R
RBORR	RICSR	RINR	RIN13R	RONER	RPORR
RTWOR					
SYSTEM	D.000	TEN	TTEN		

Created by : RPM9, v5.0.0.0

Plotted by : PlotMgr, v5.4.504

Company : MARATHON OIL COMPANY

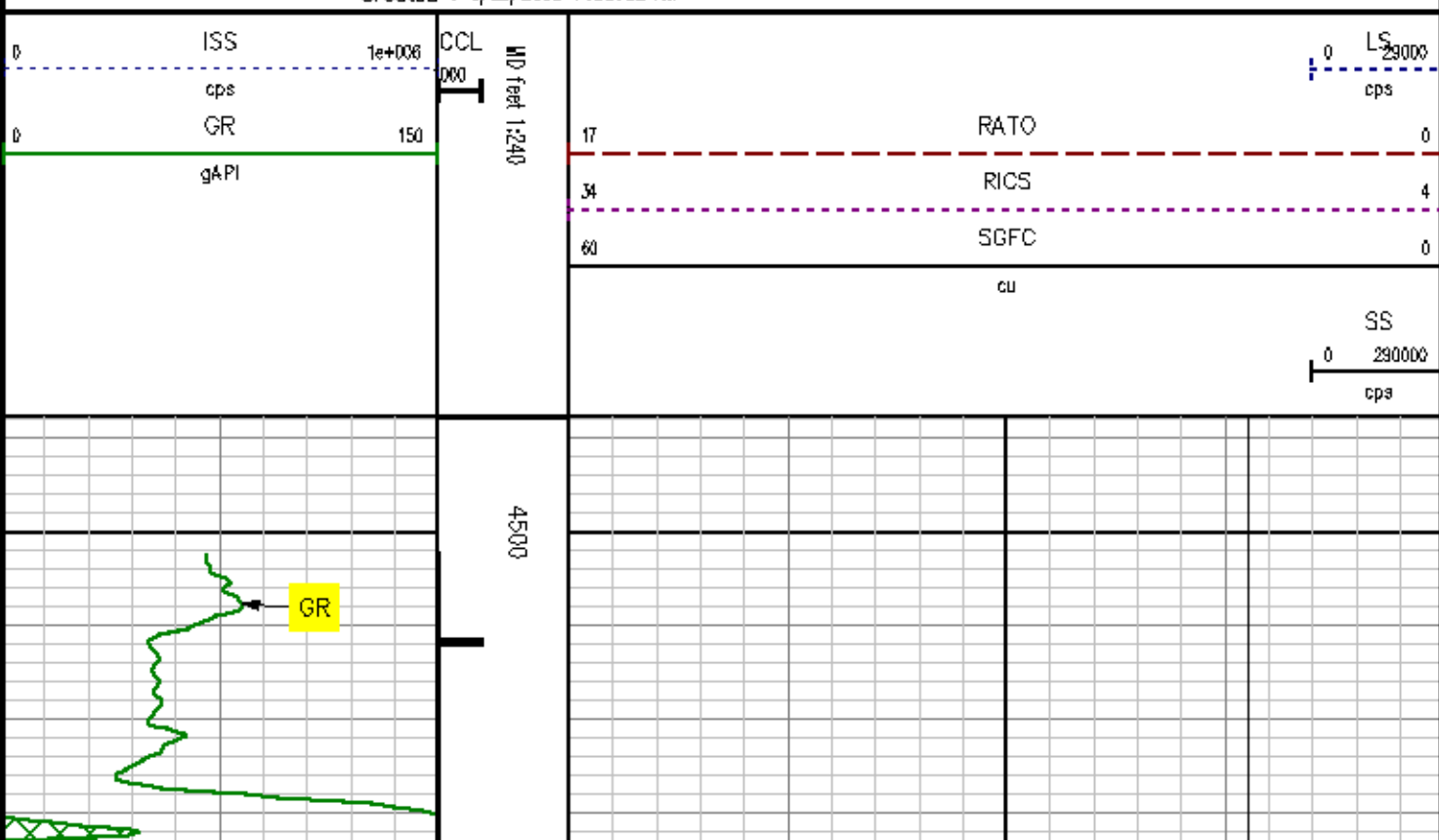
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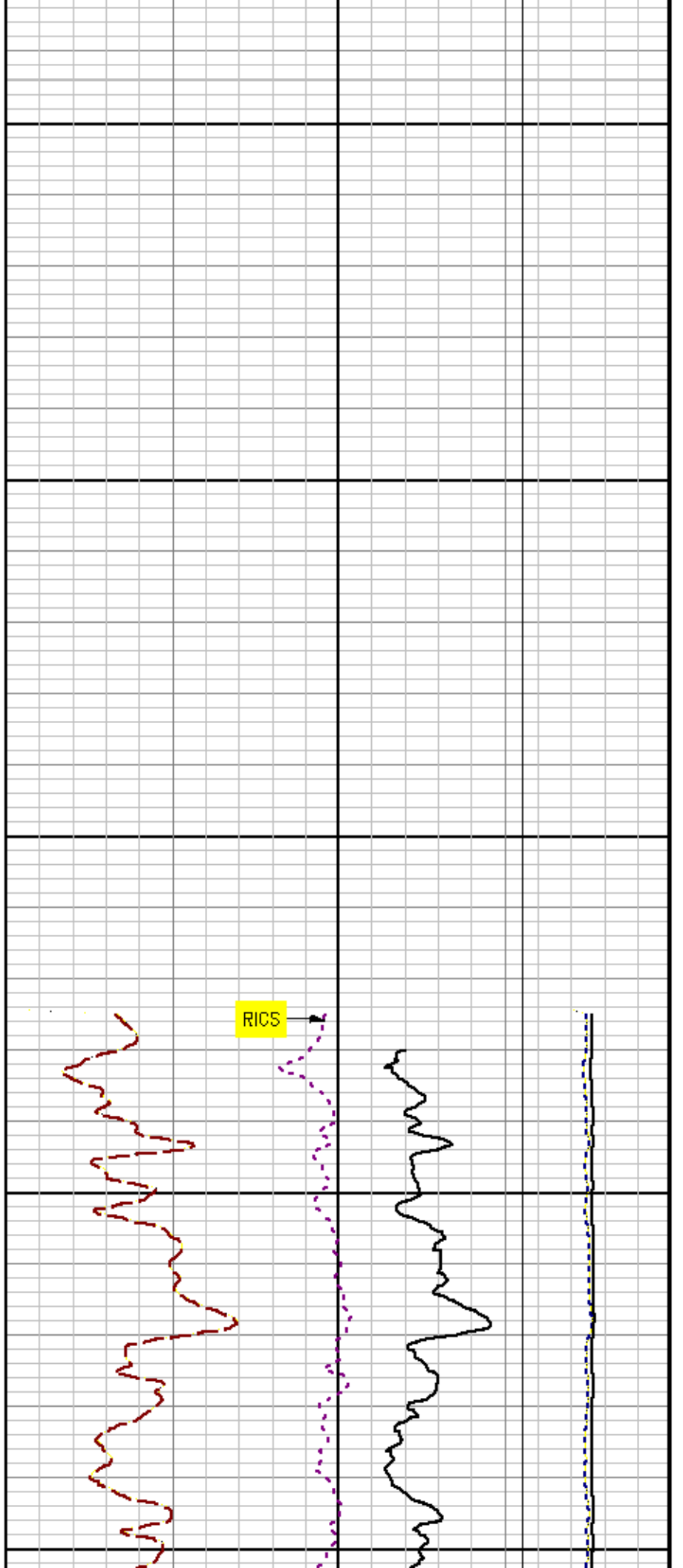
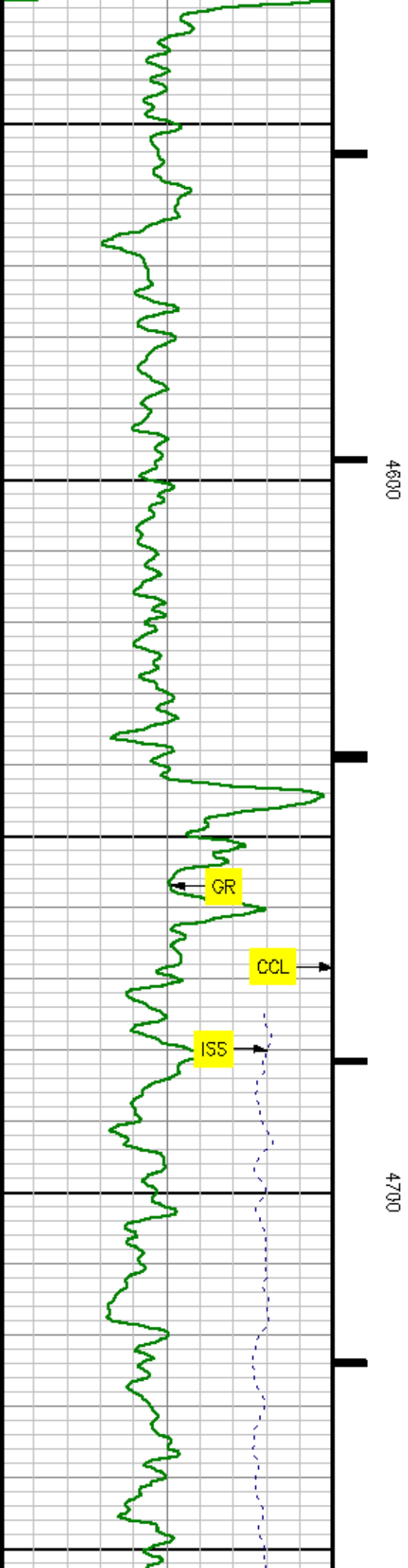
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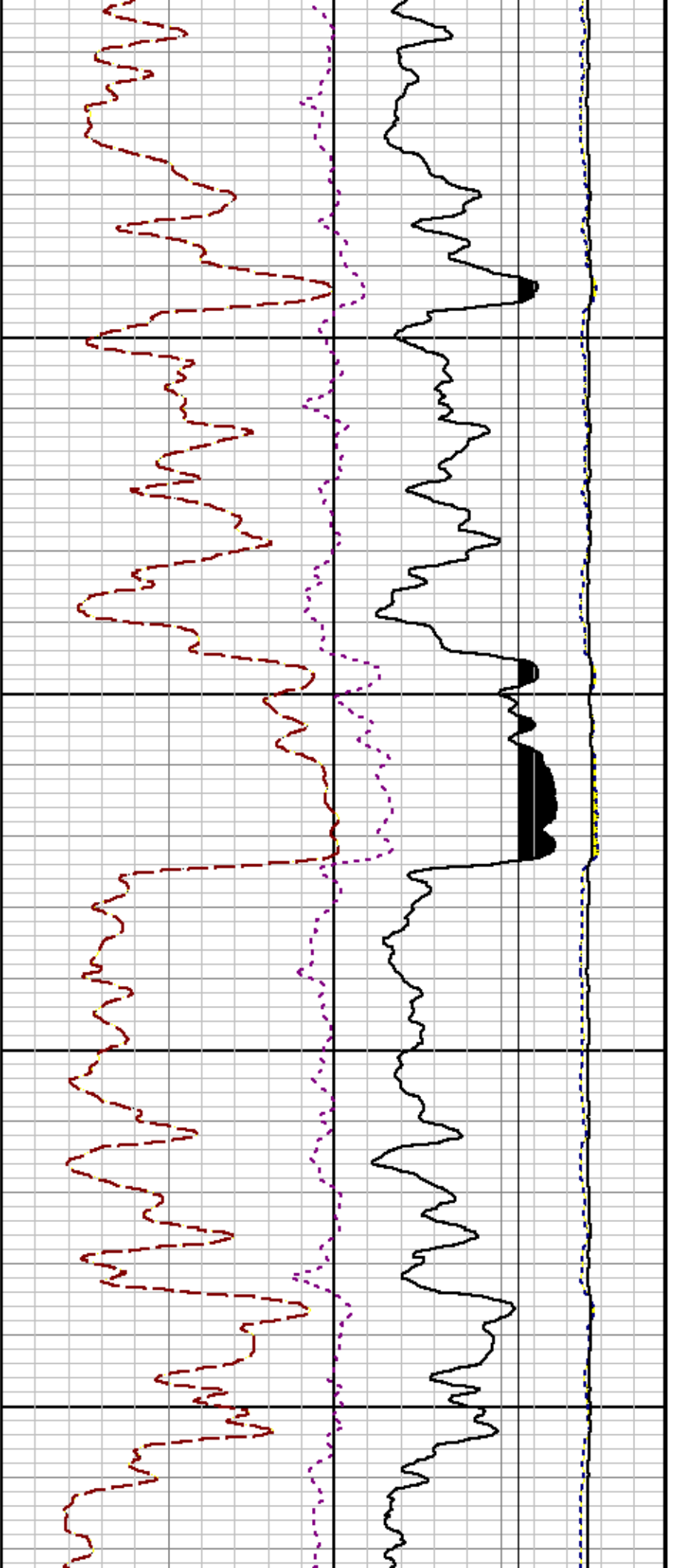
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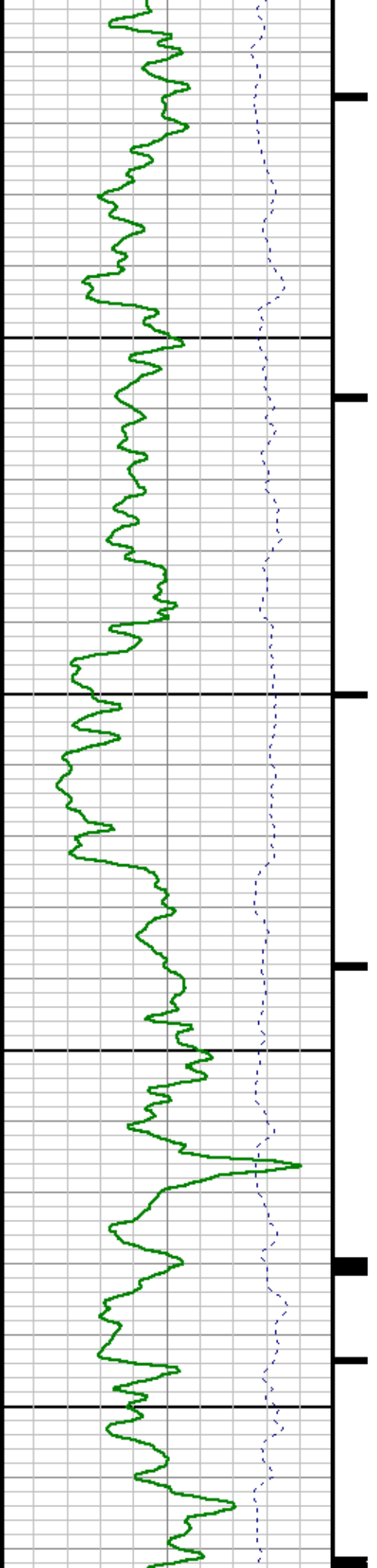


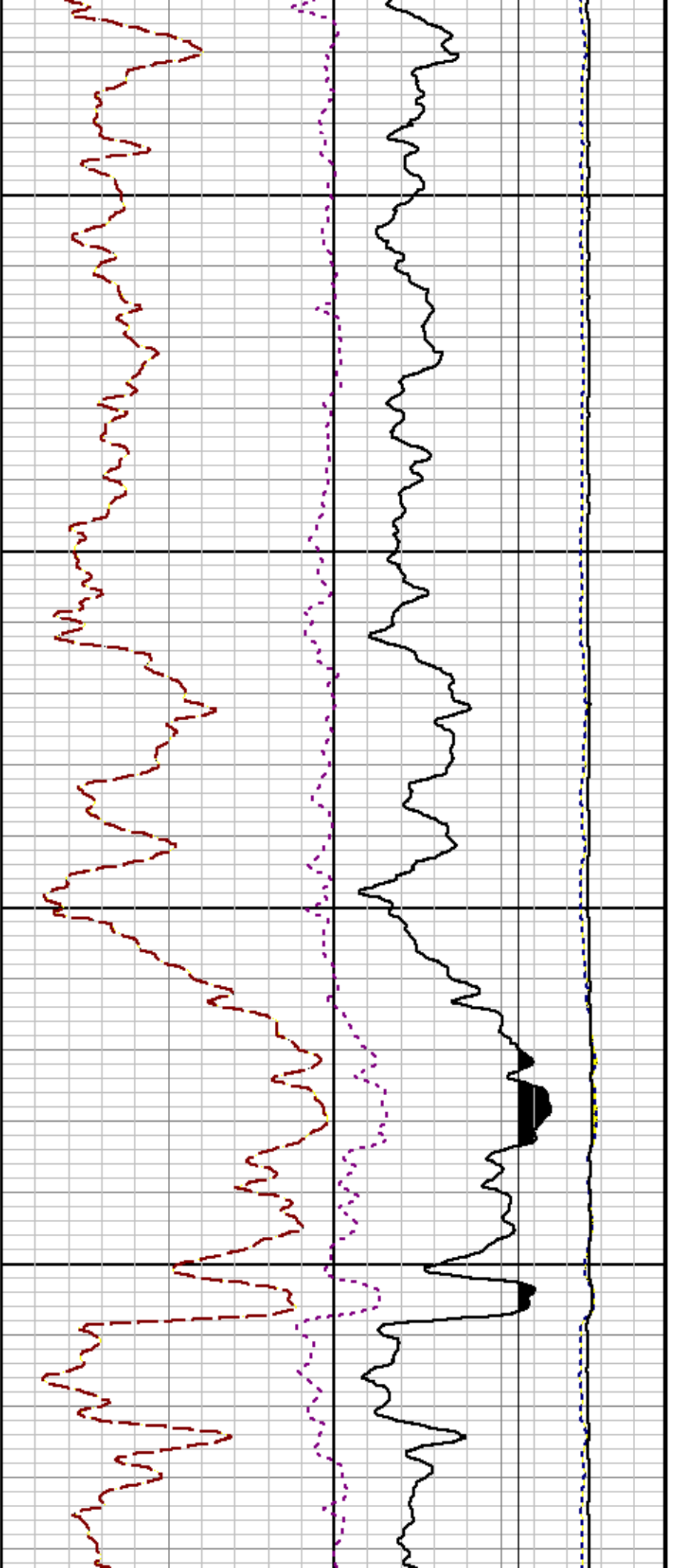




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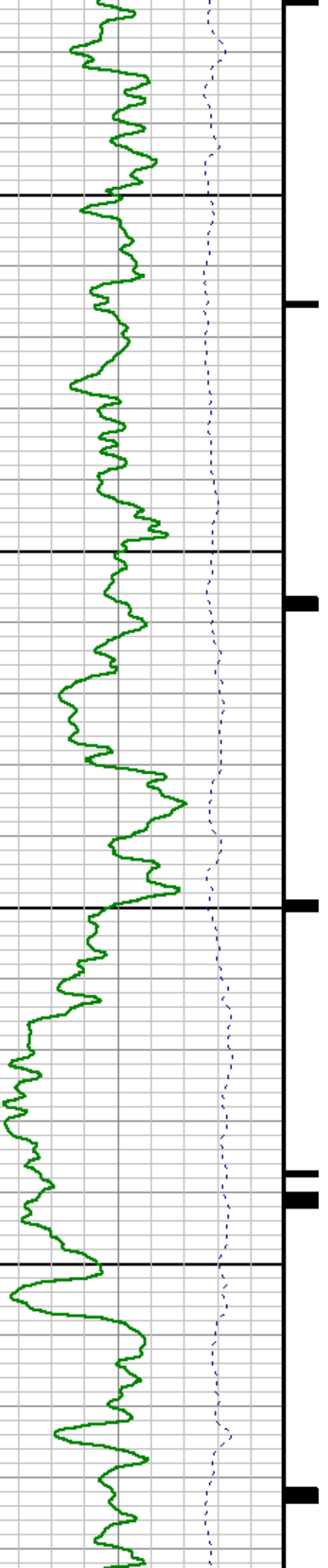
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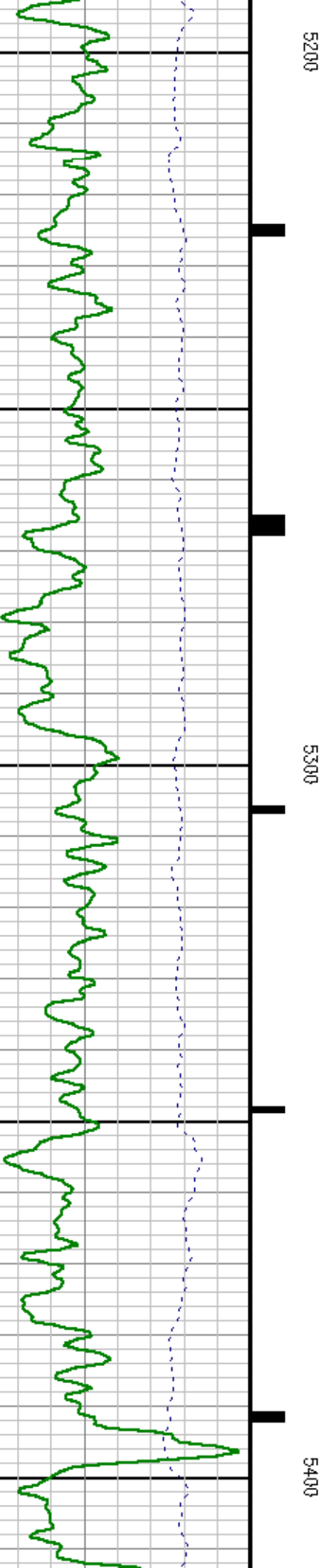
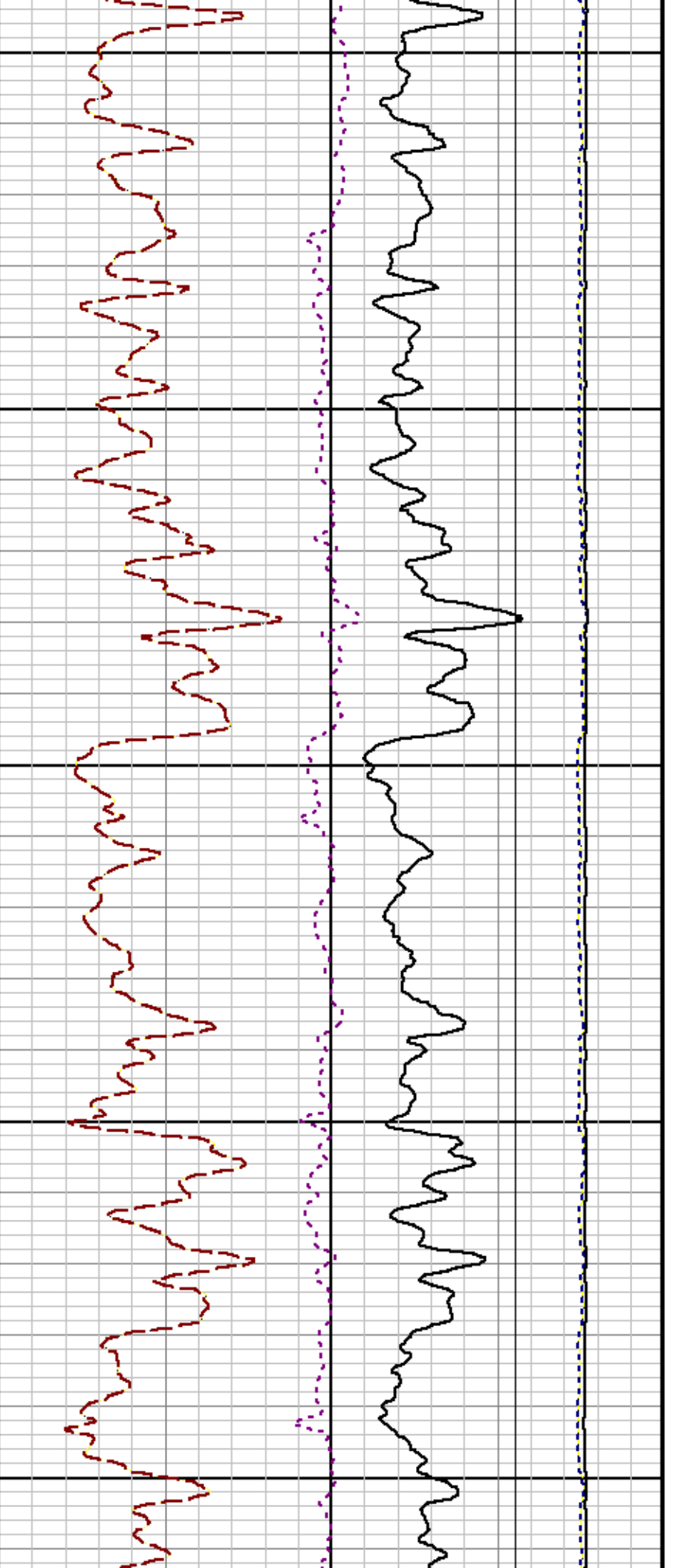


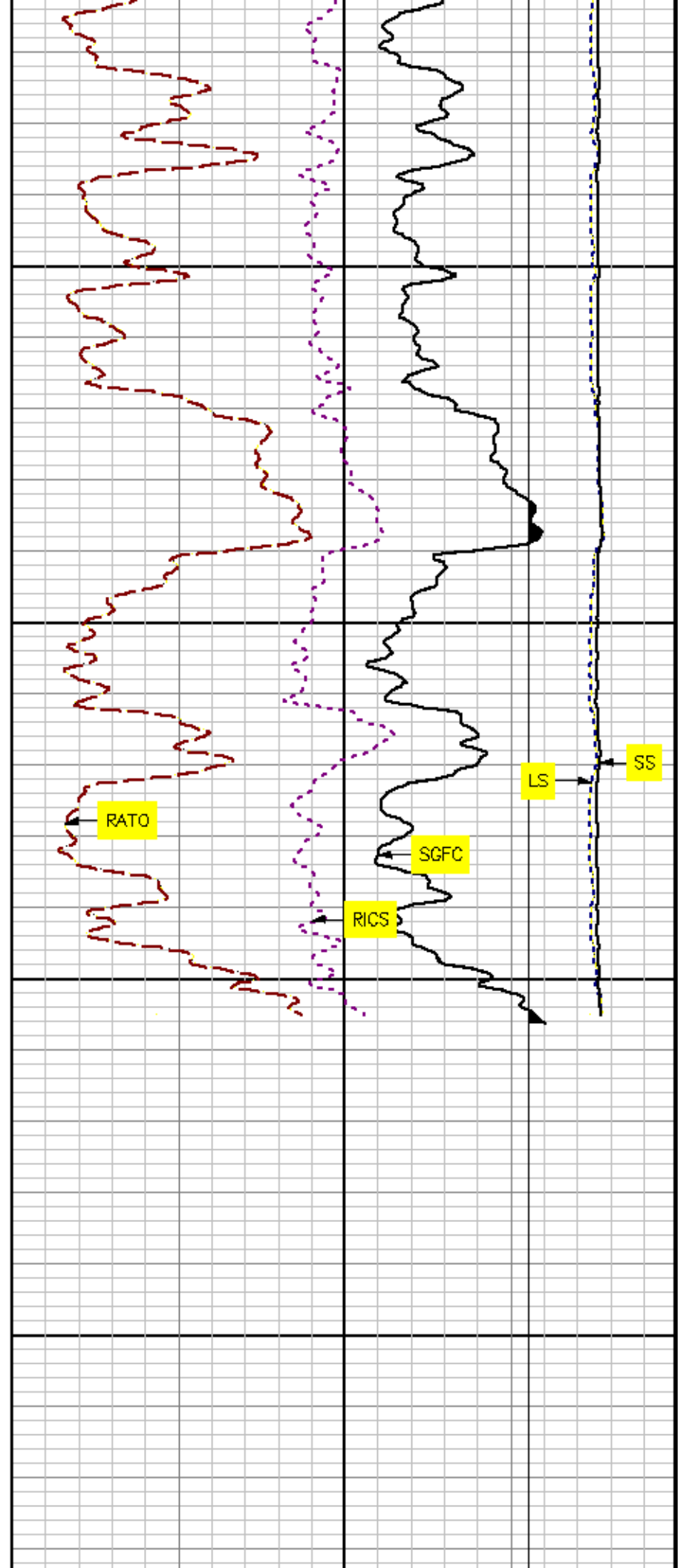
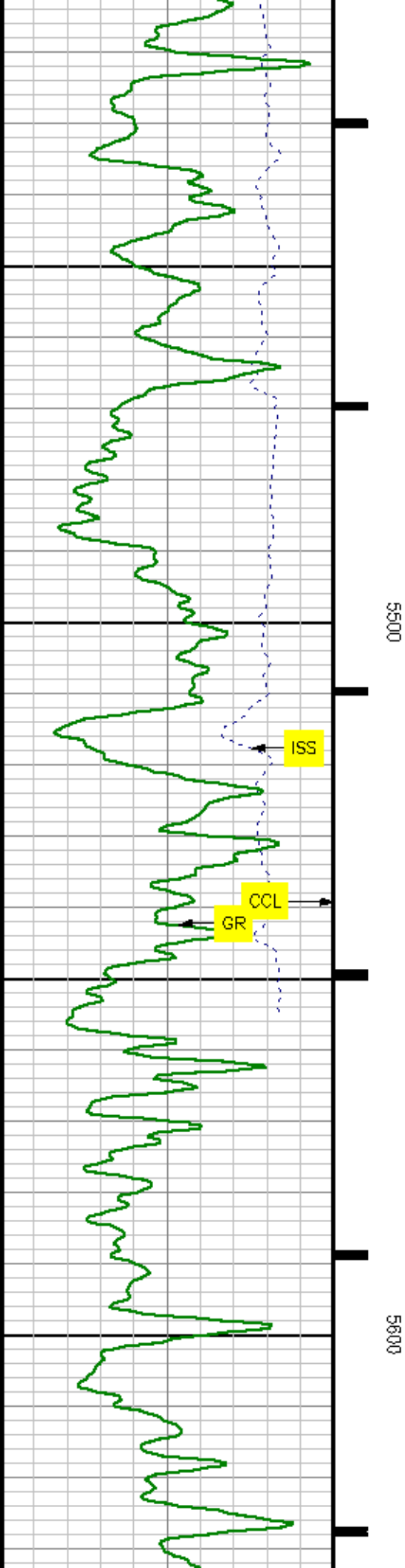


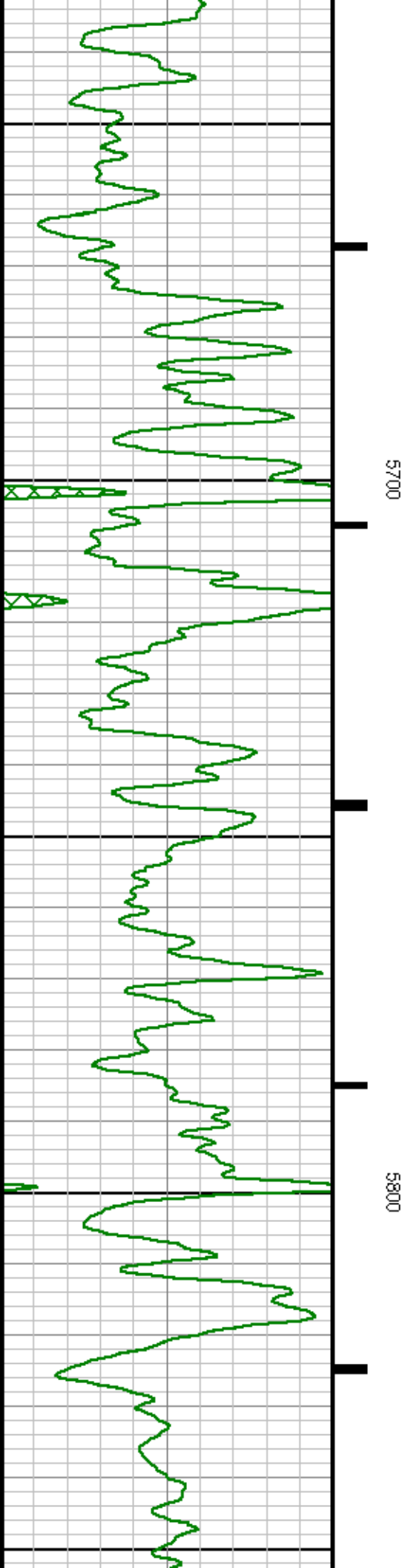
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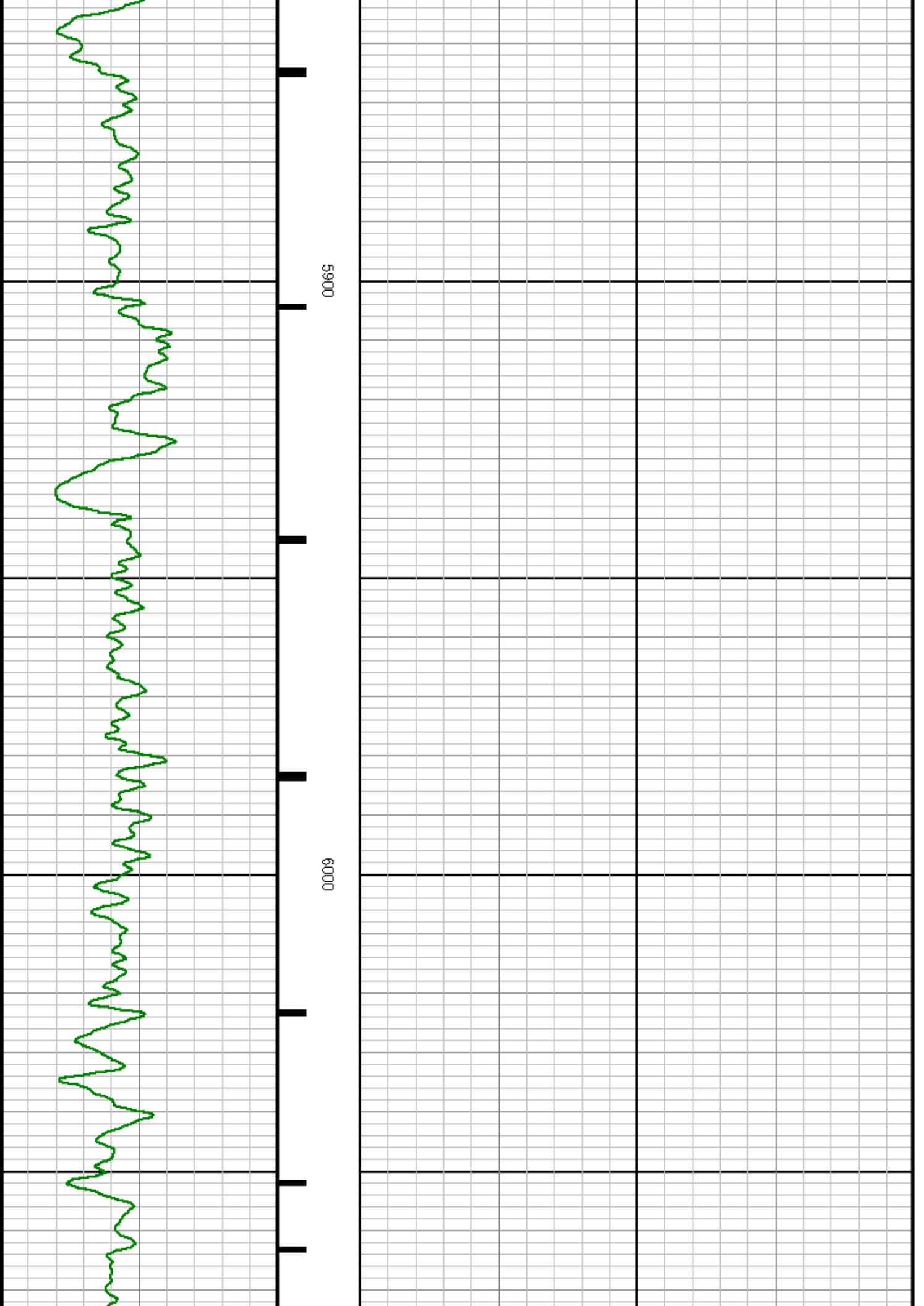
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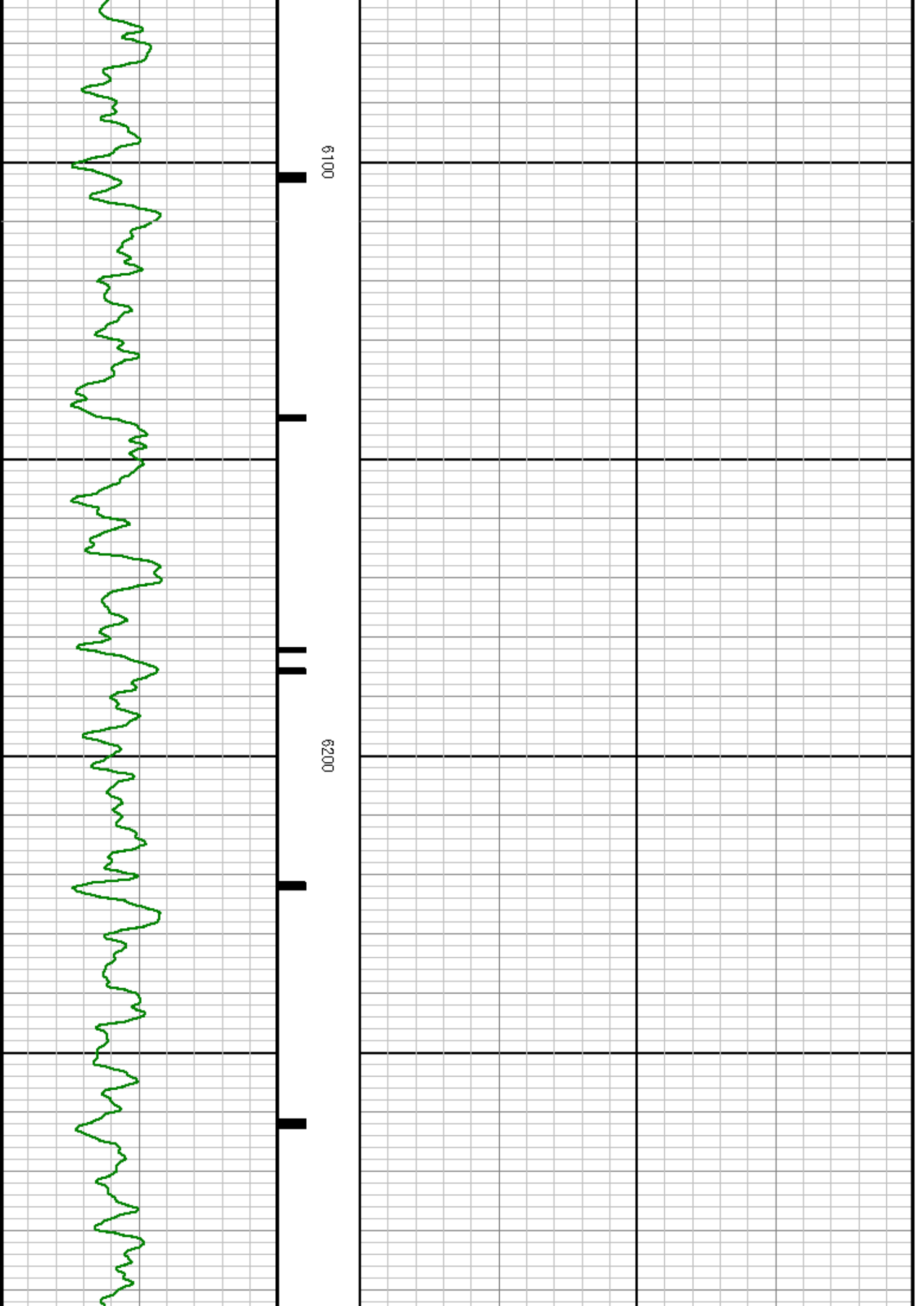


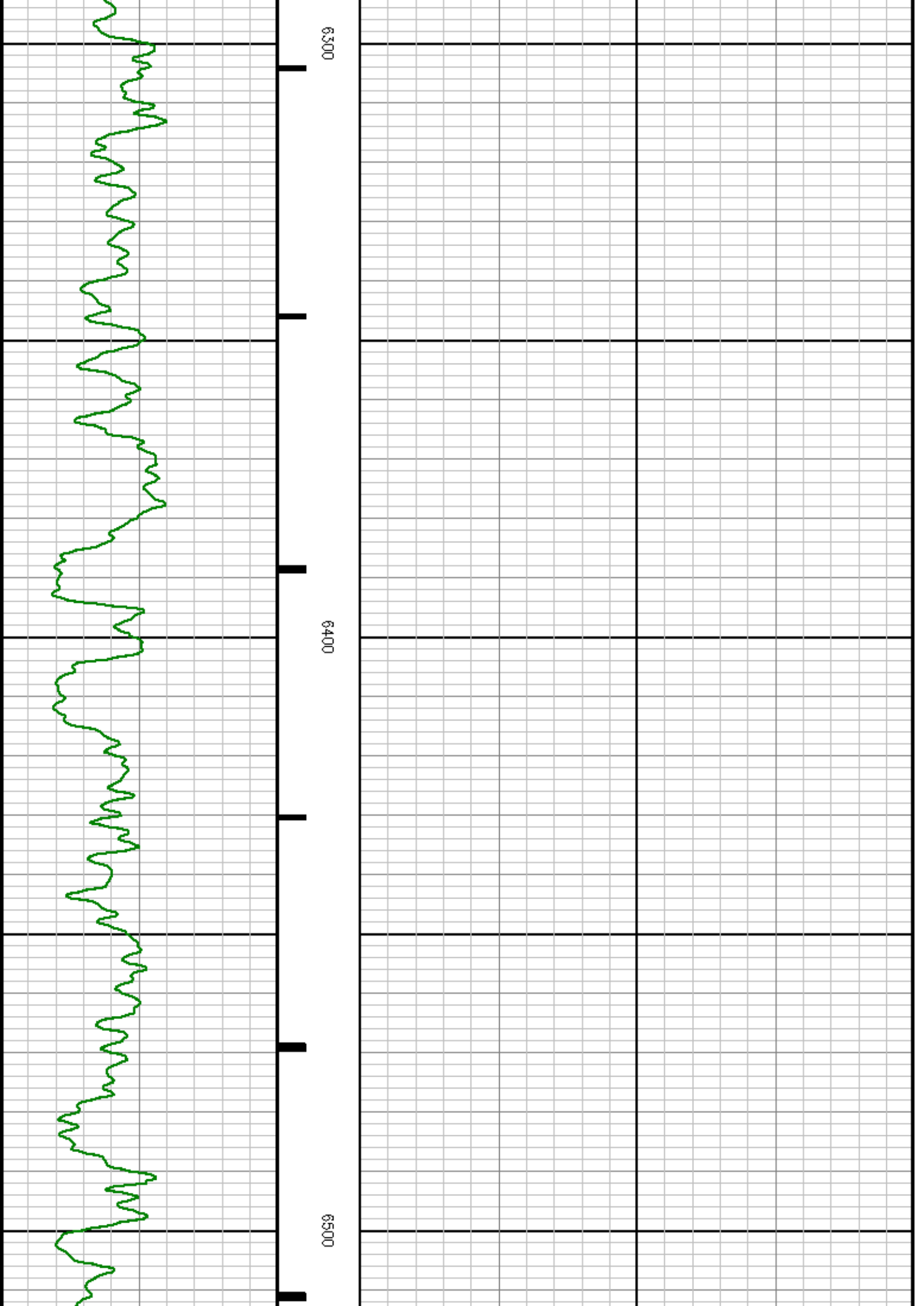


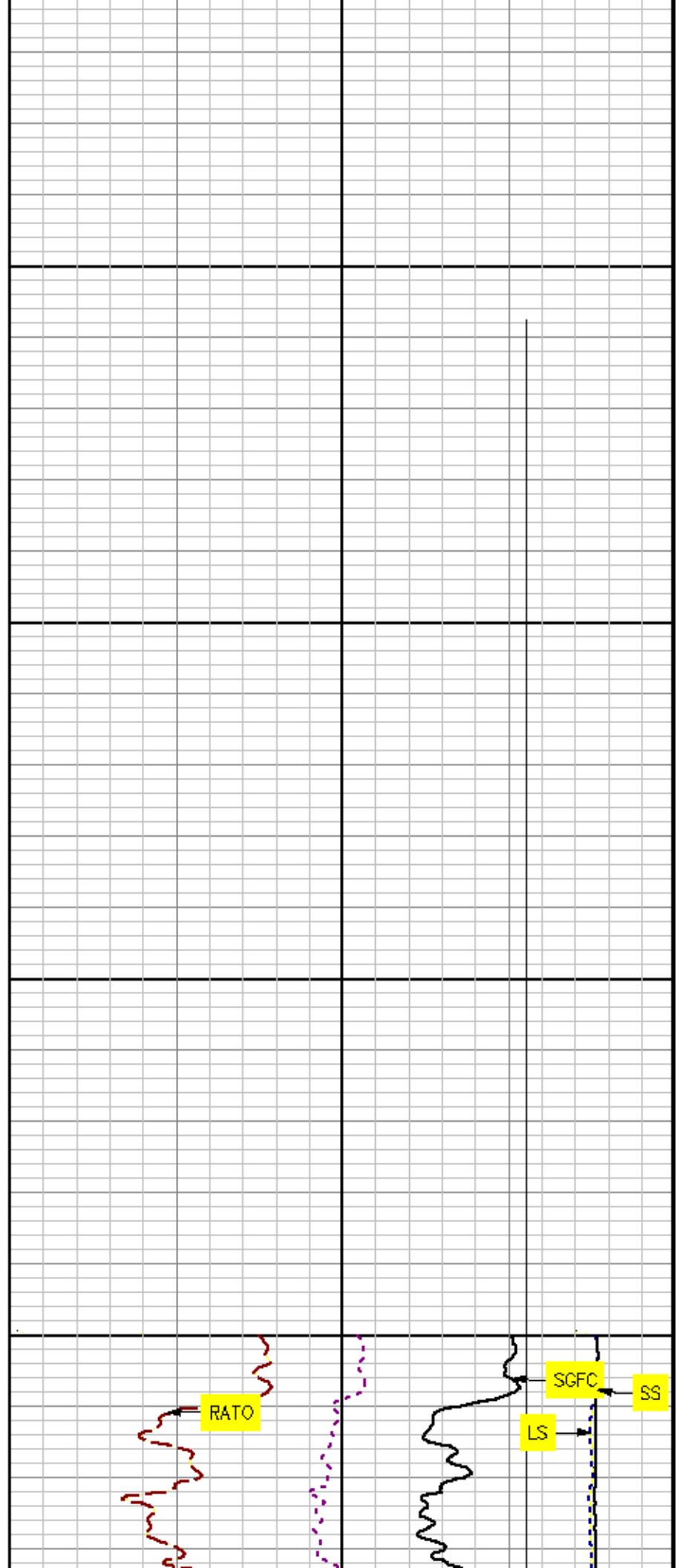
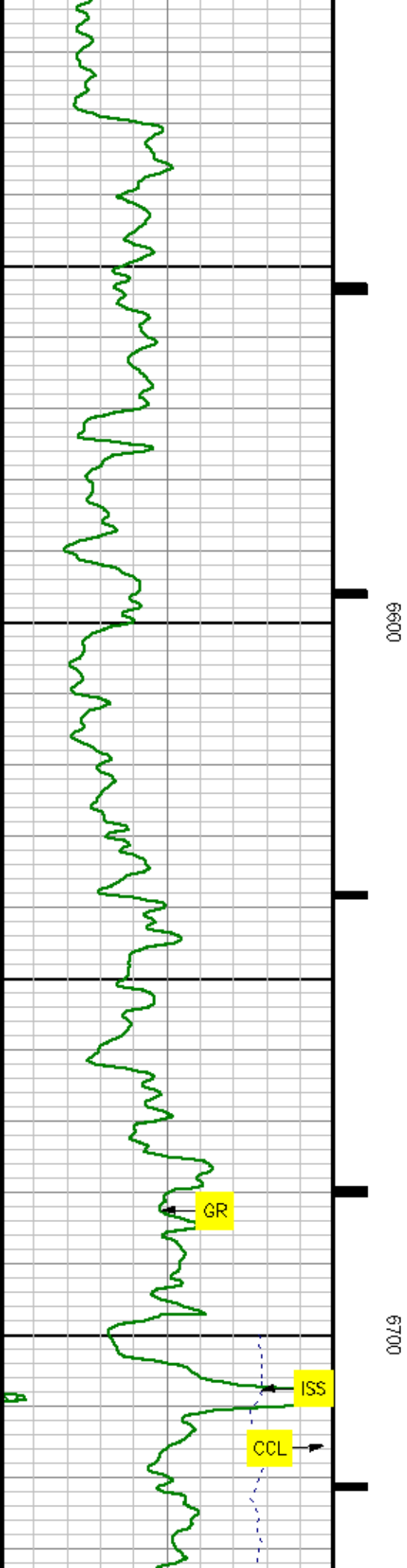


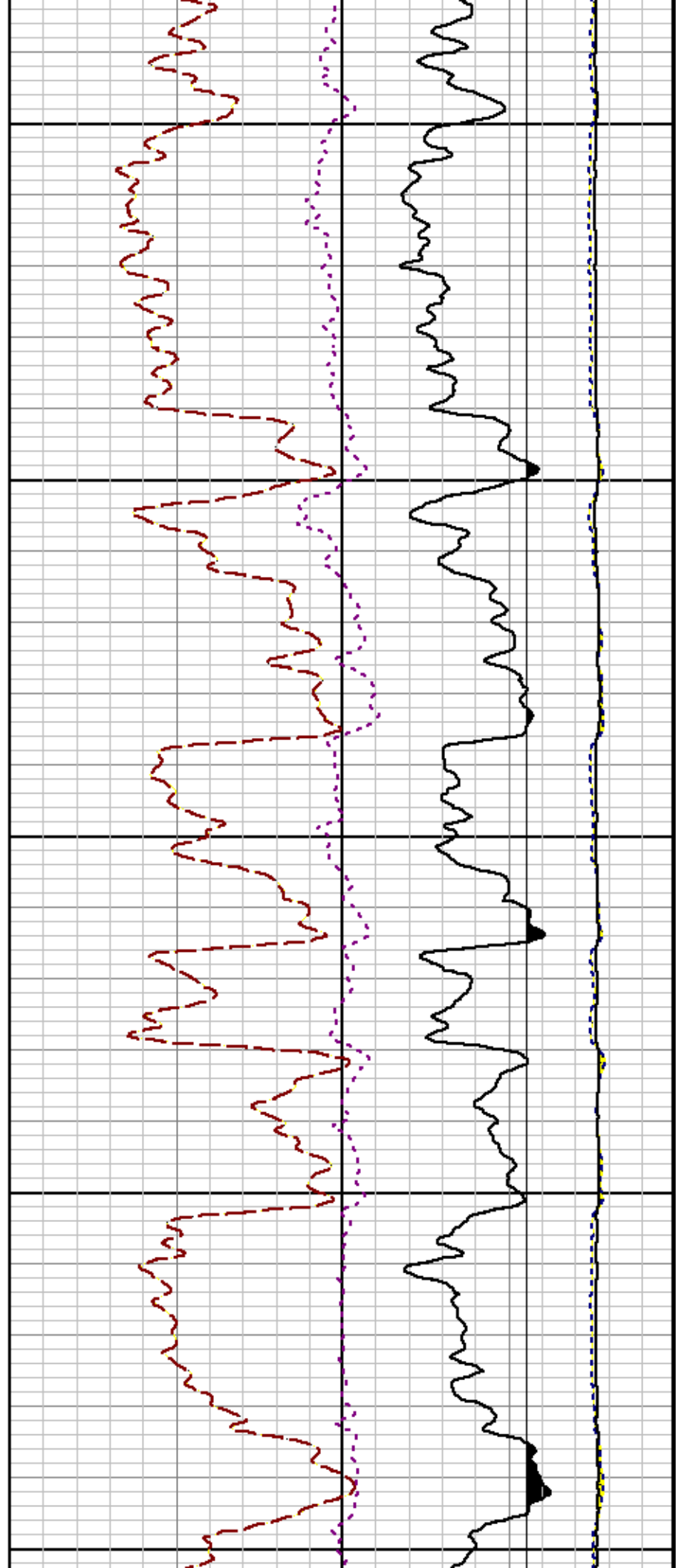
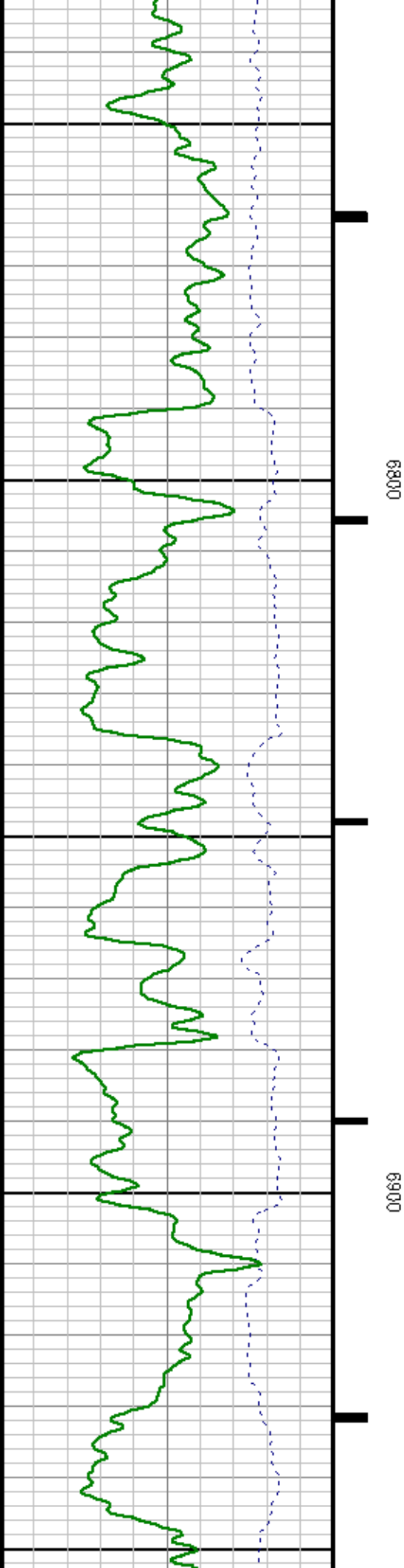


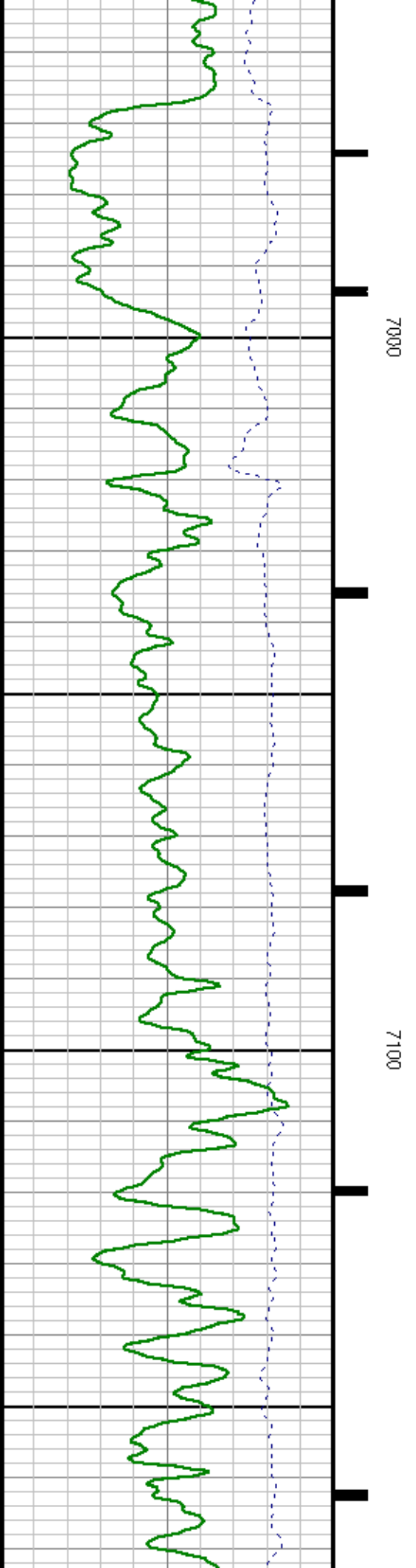
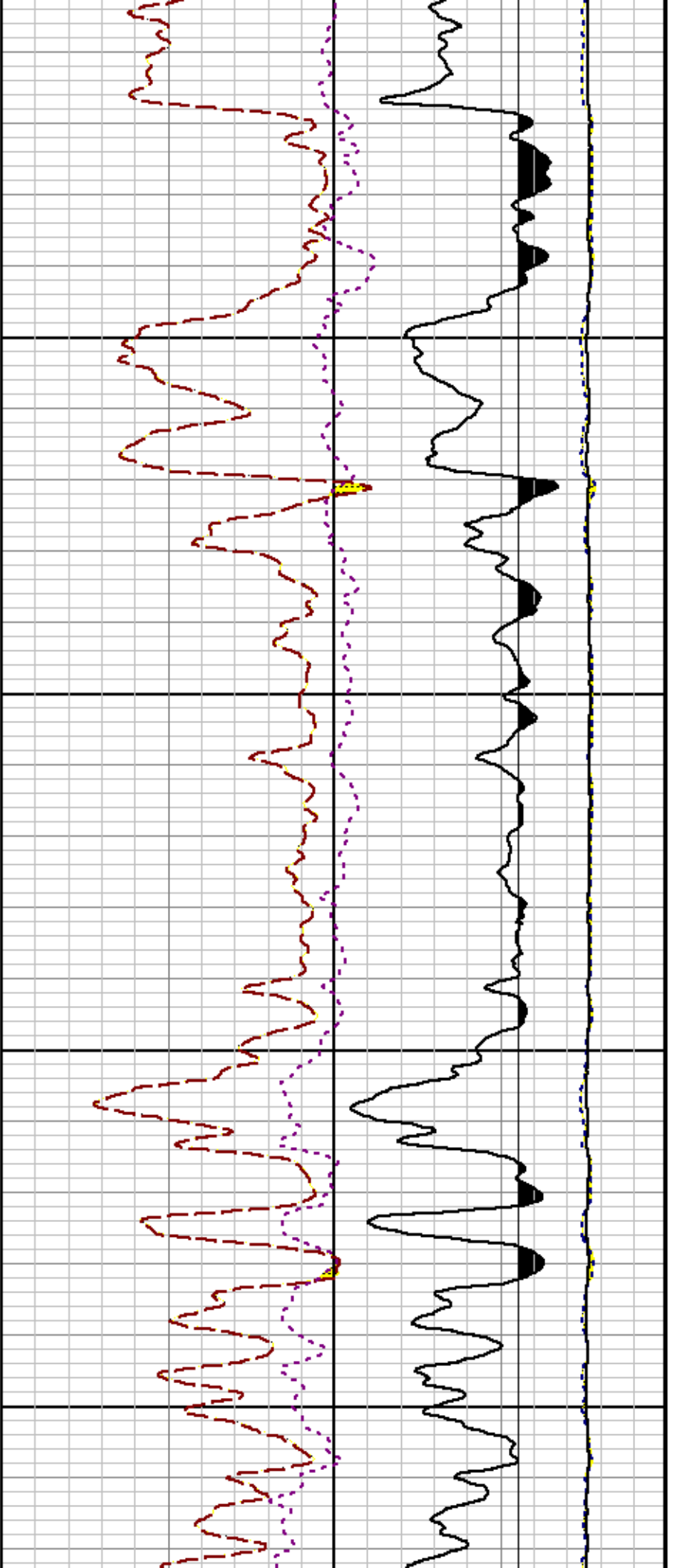


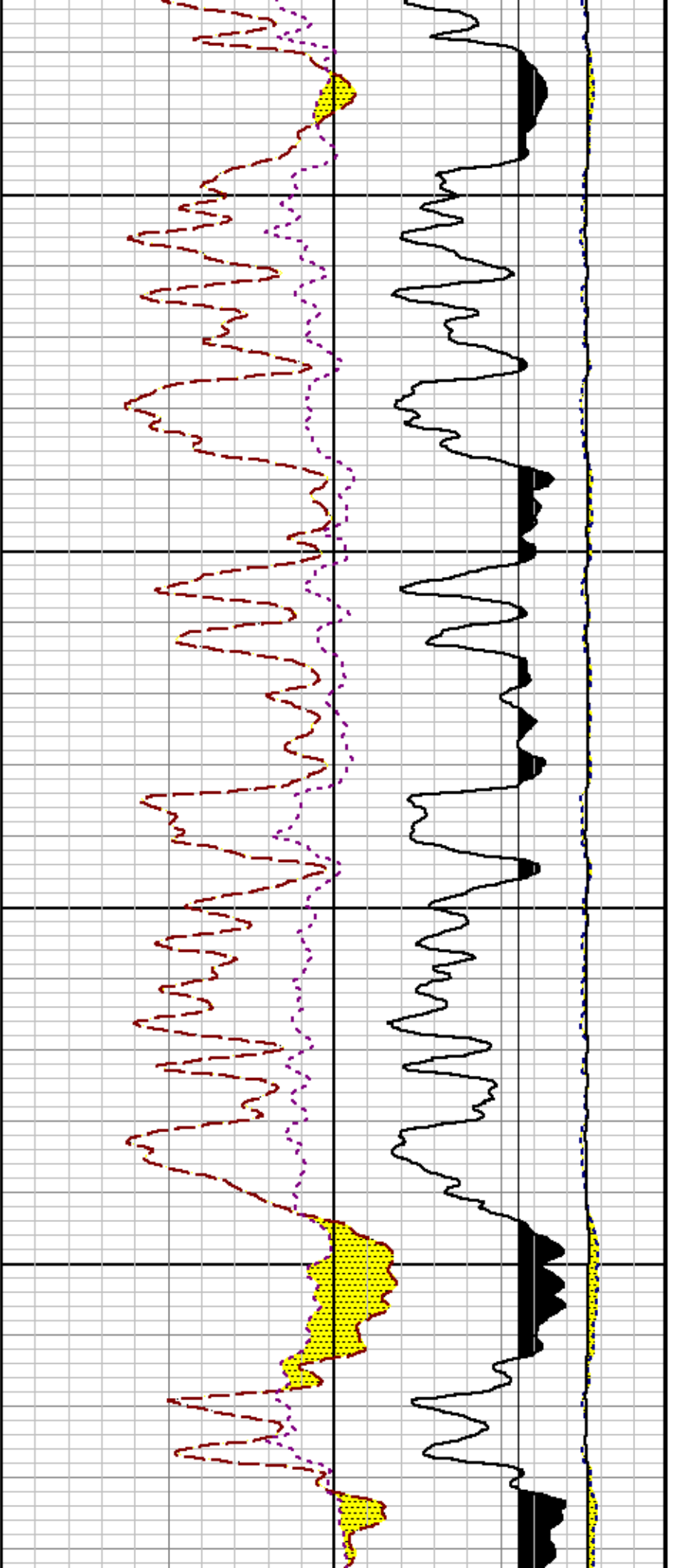






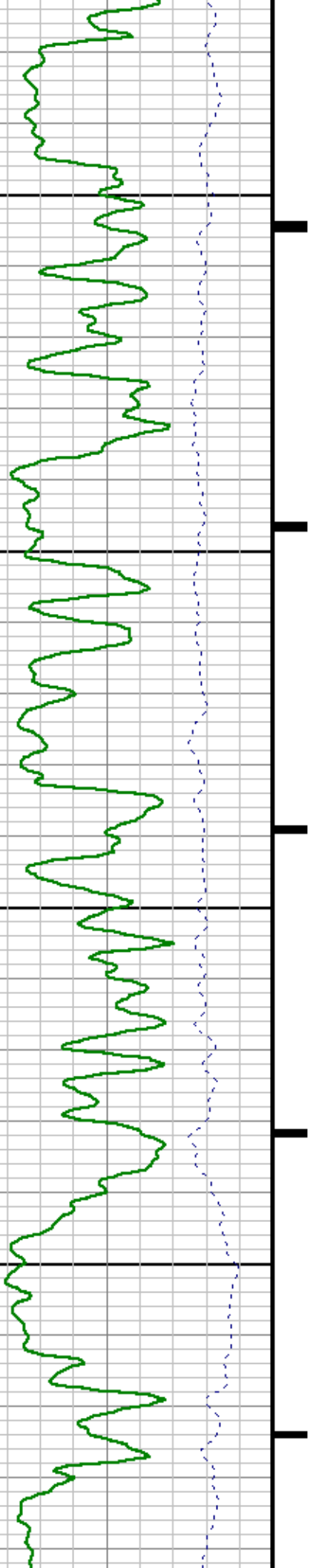


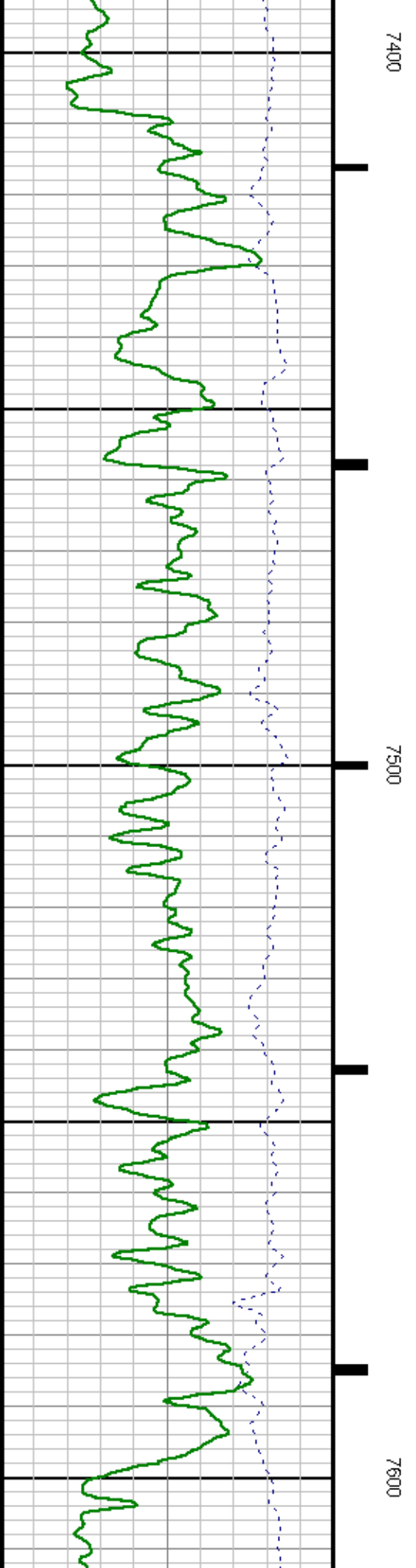
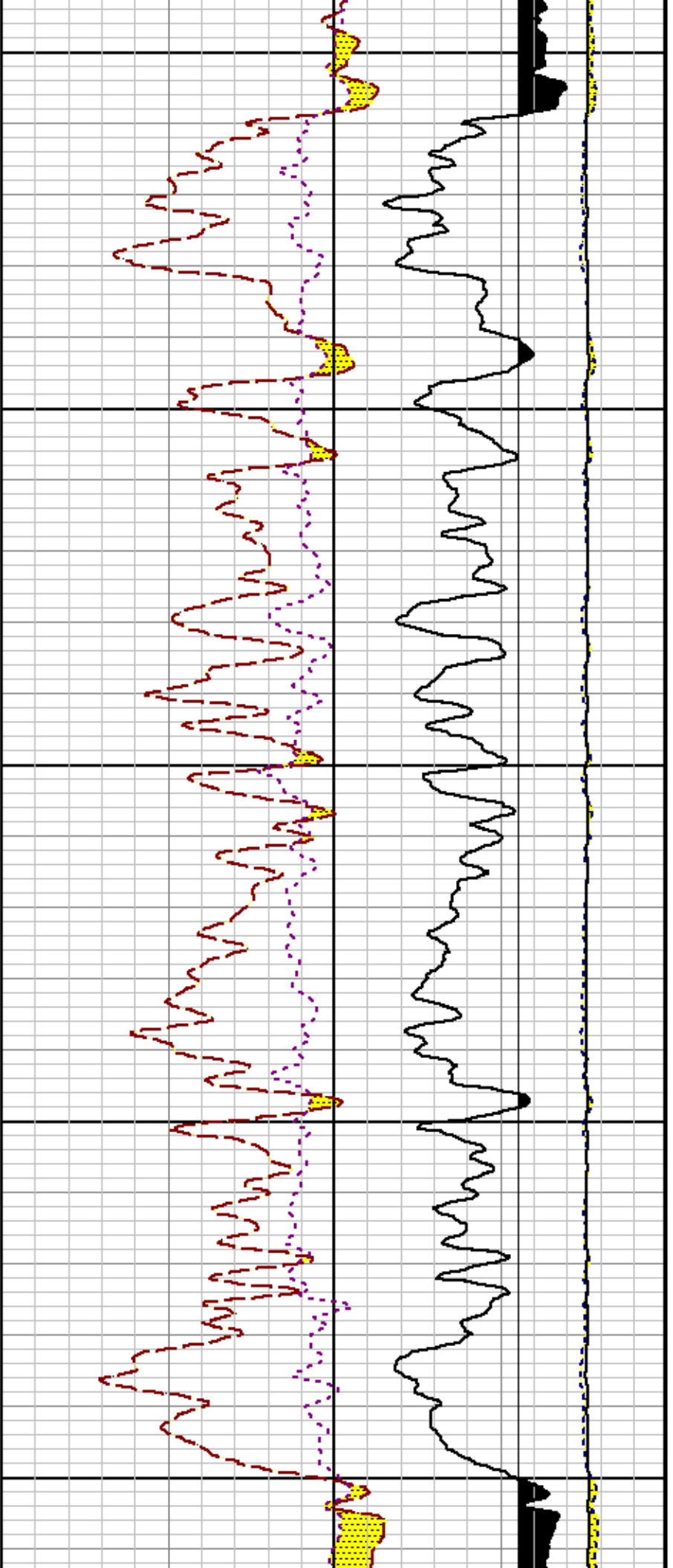


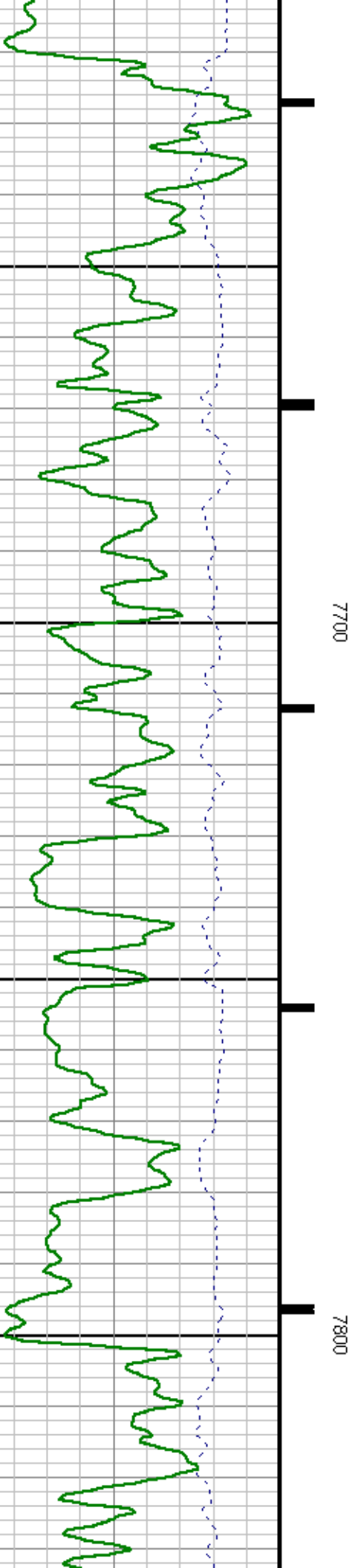
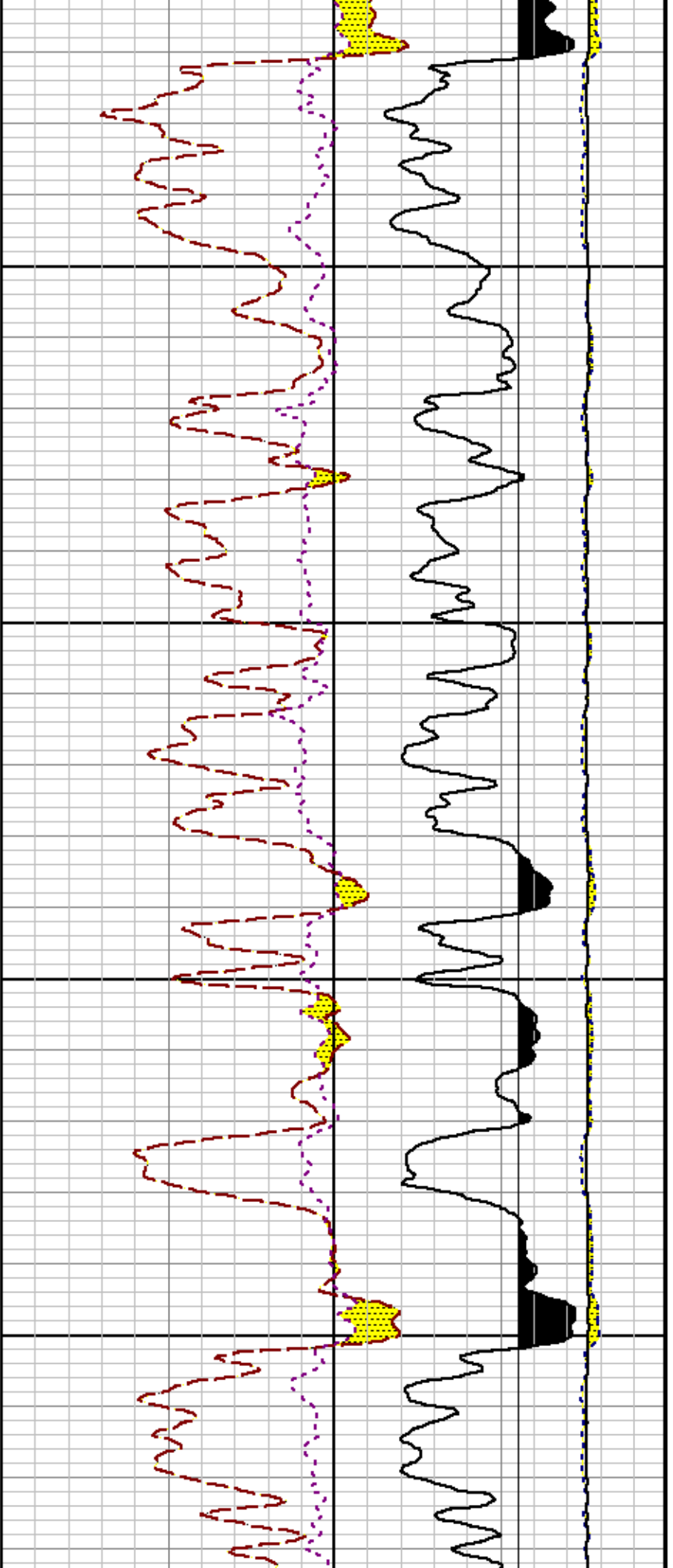


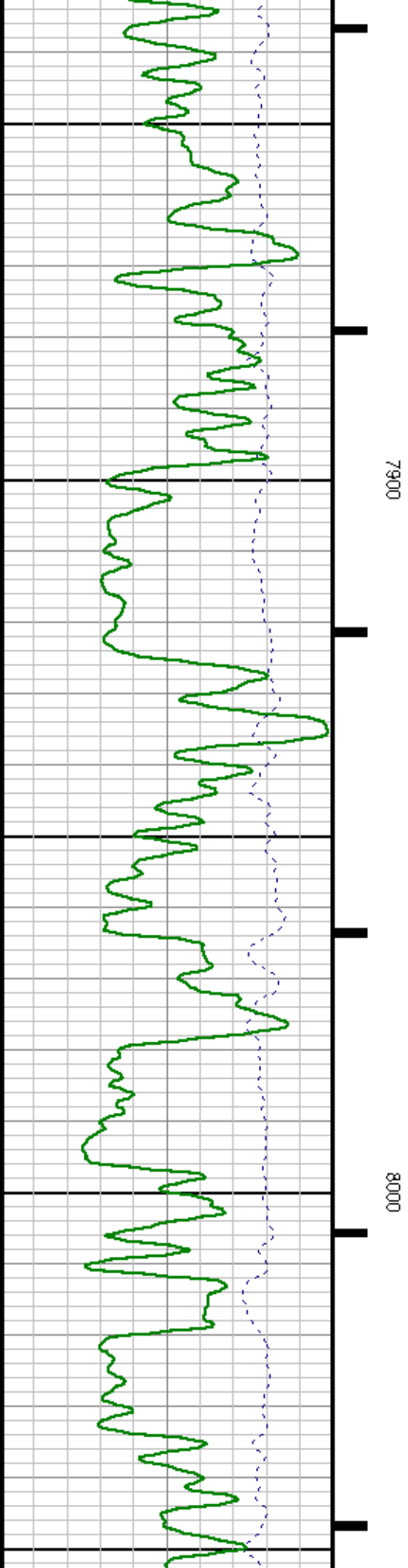
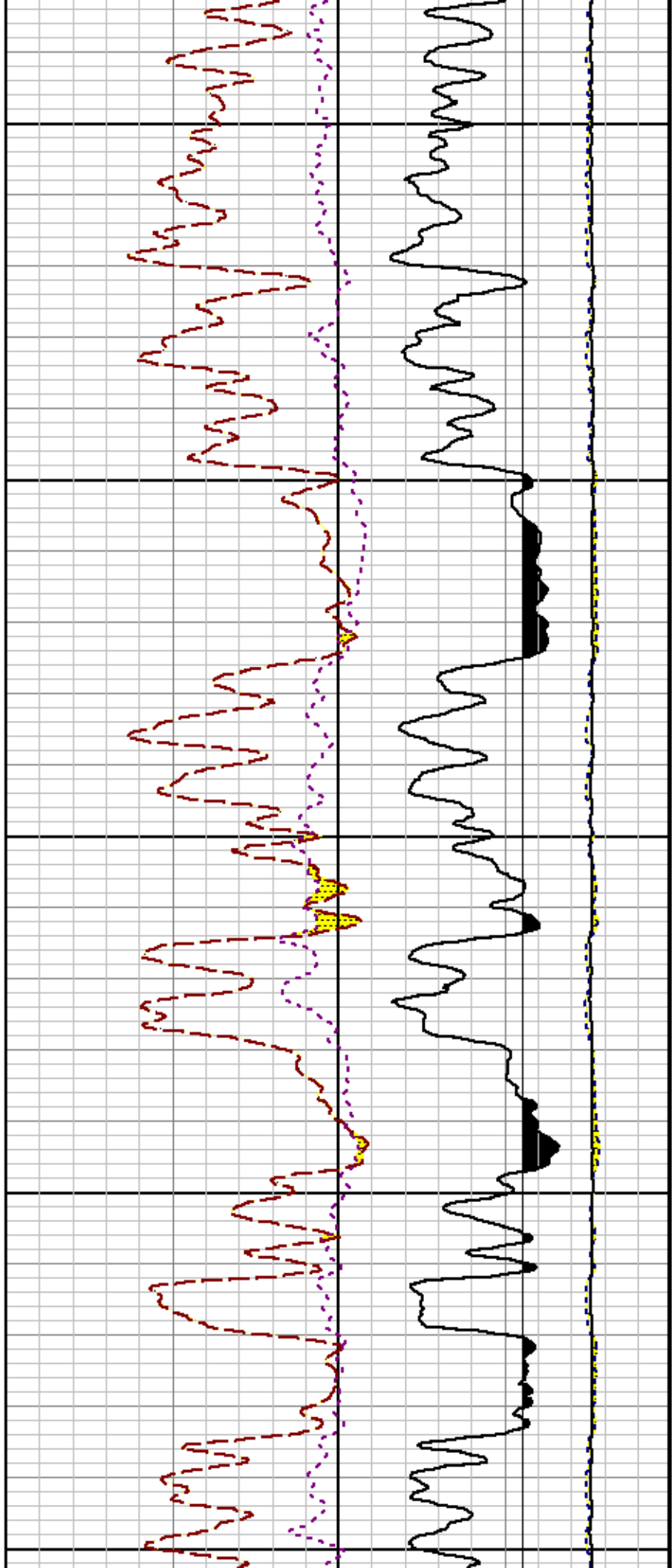
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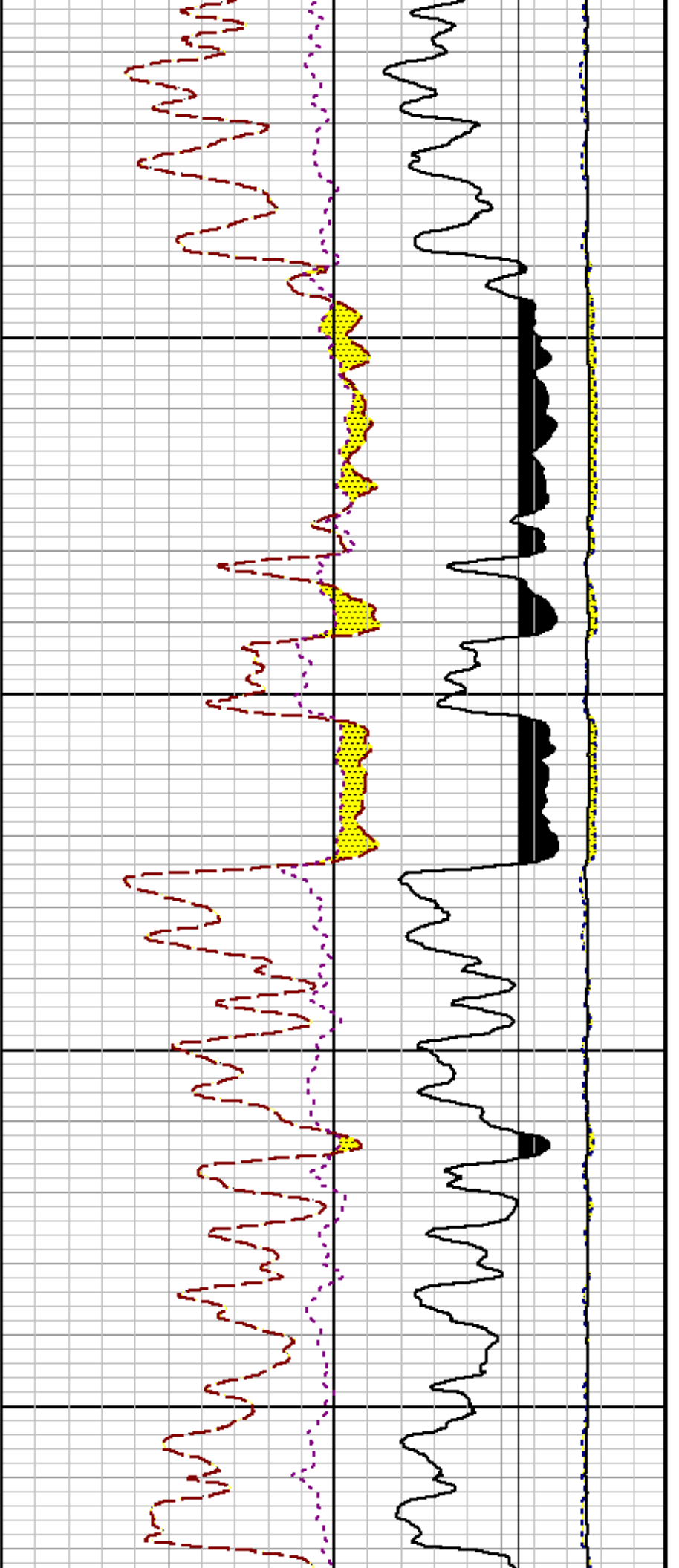
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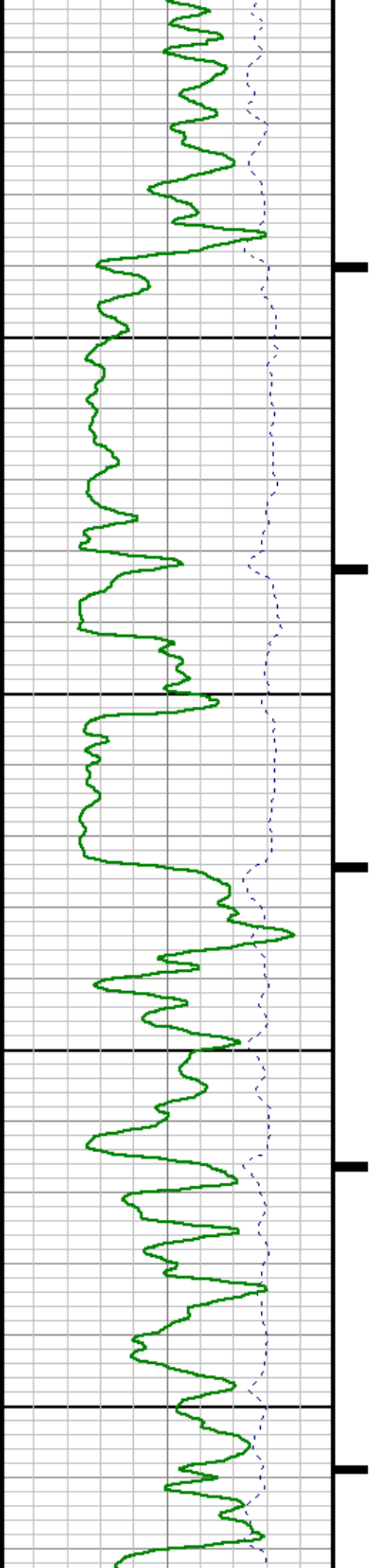


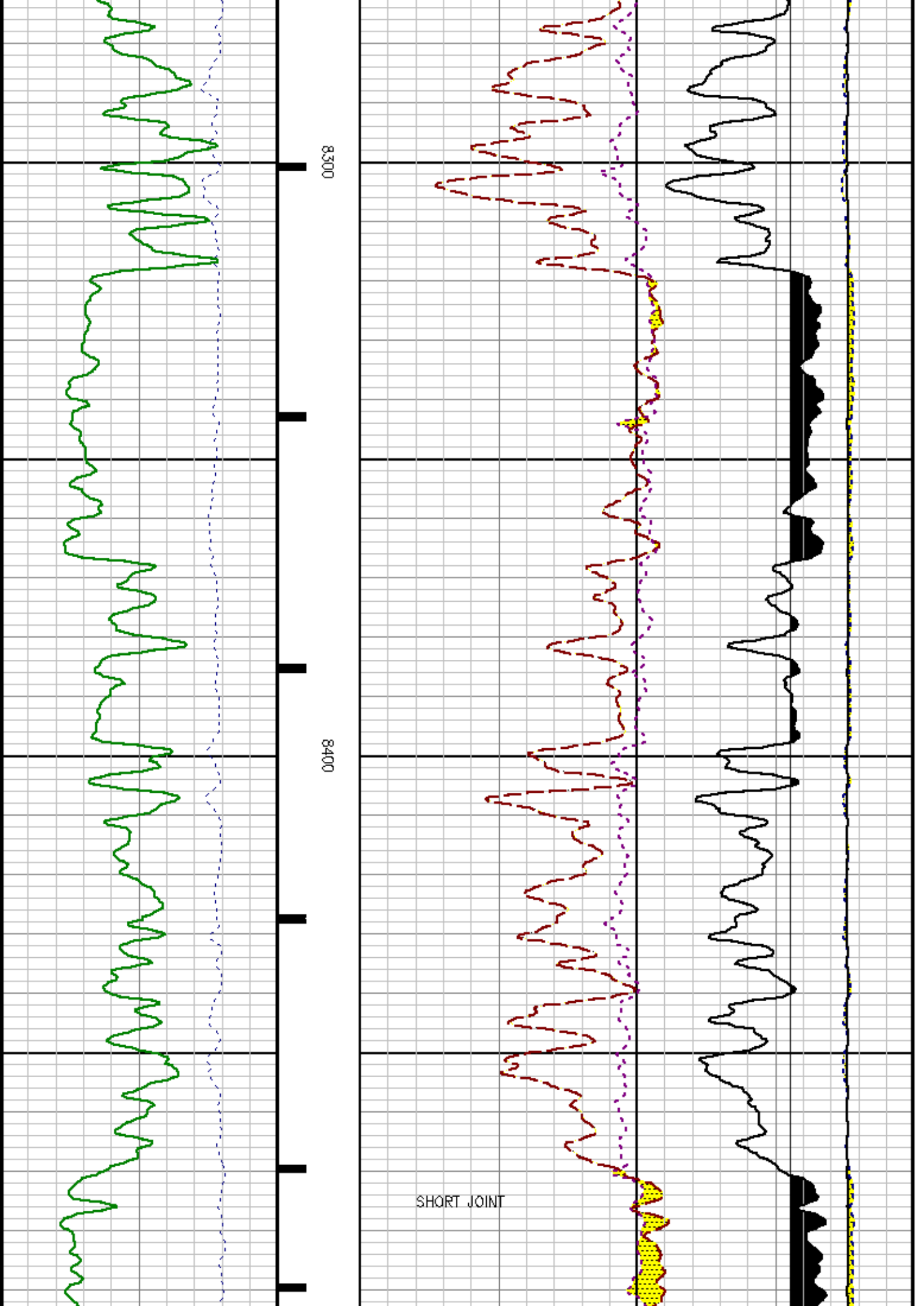


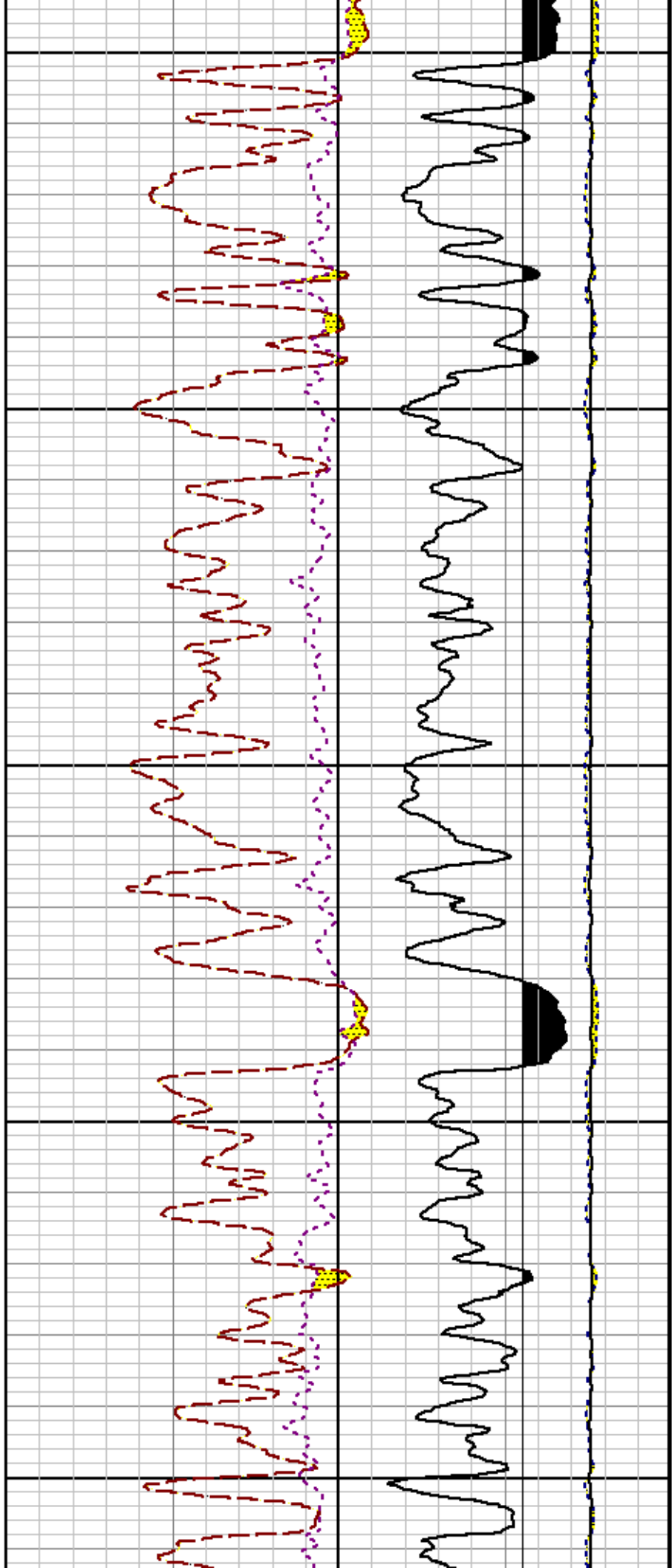


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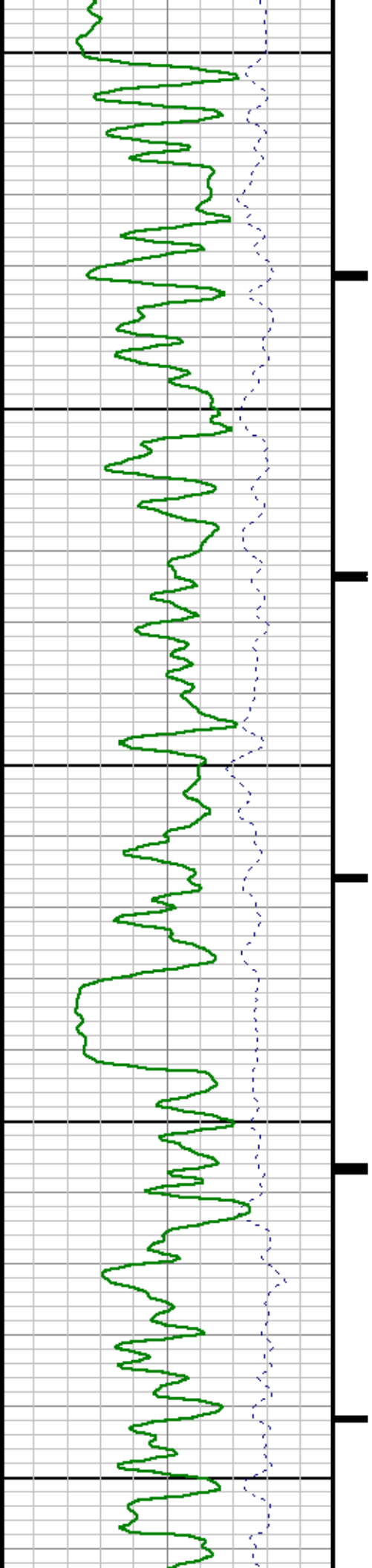


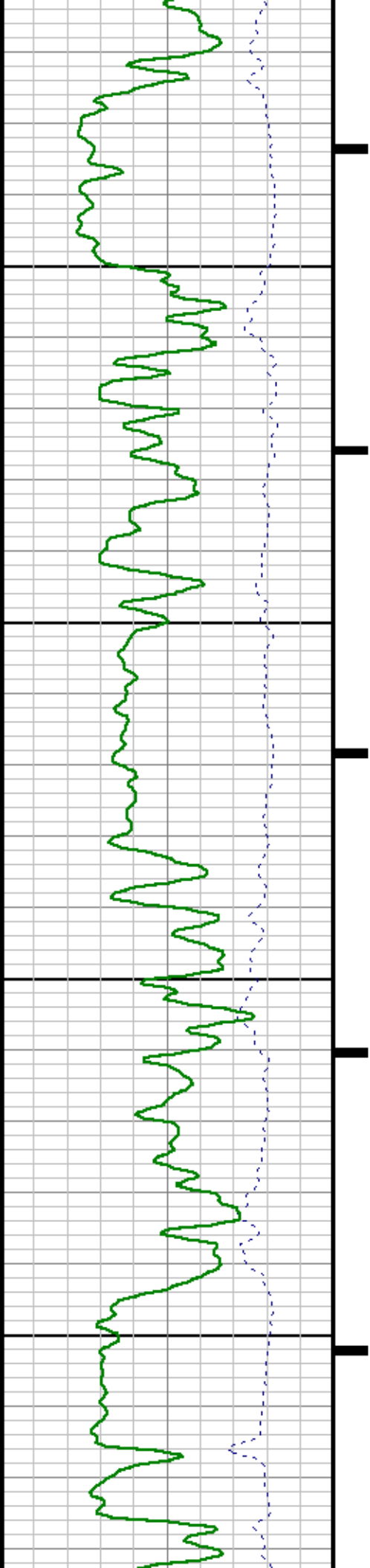


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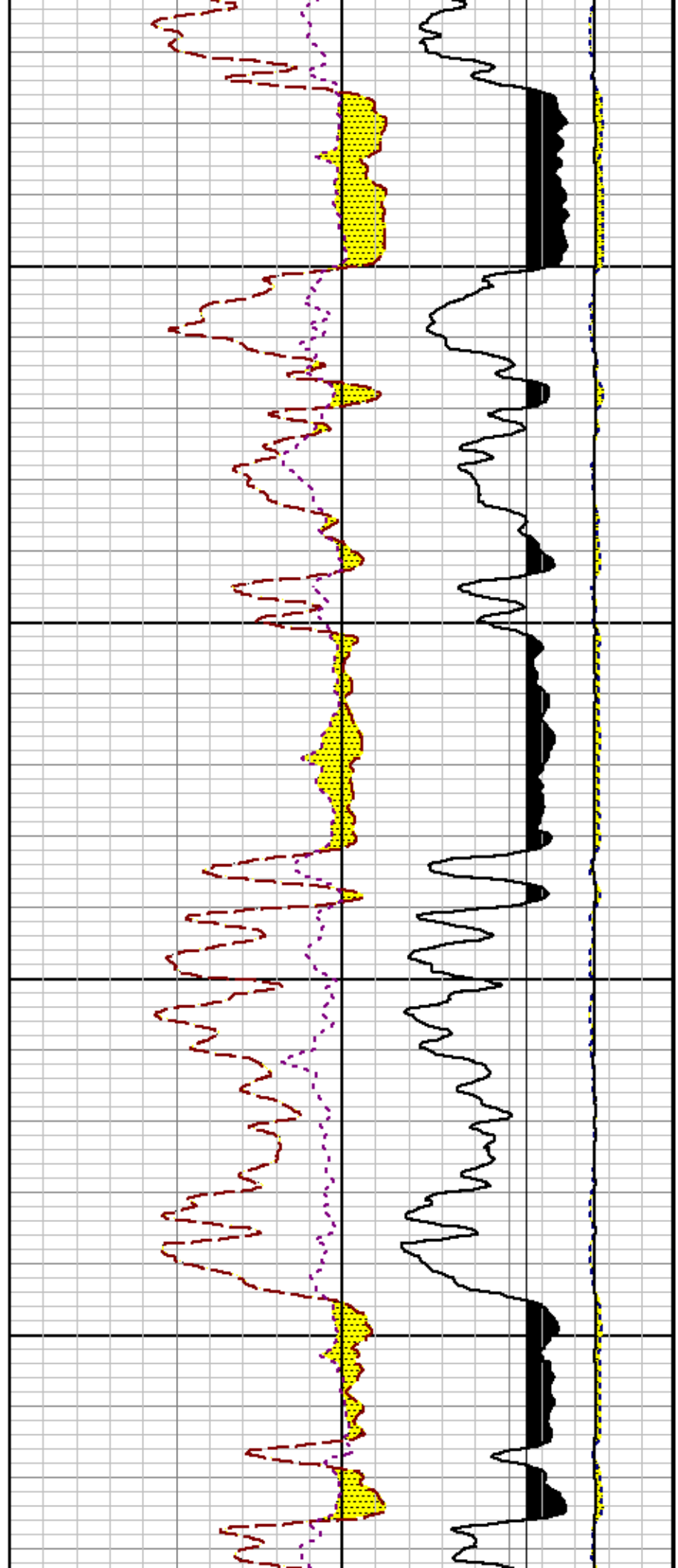
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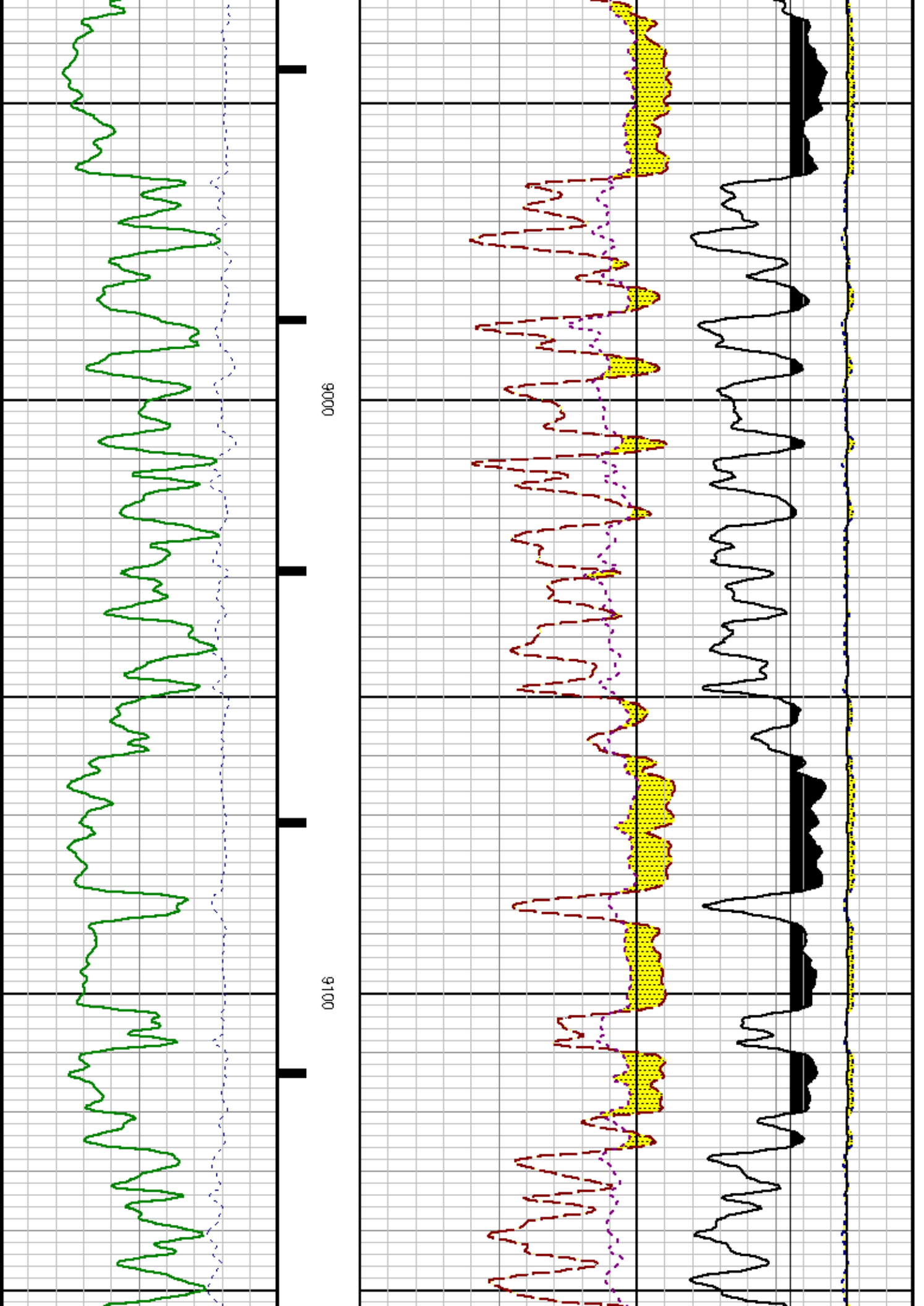


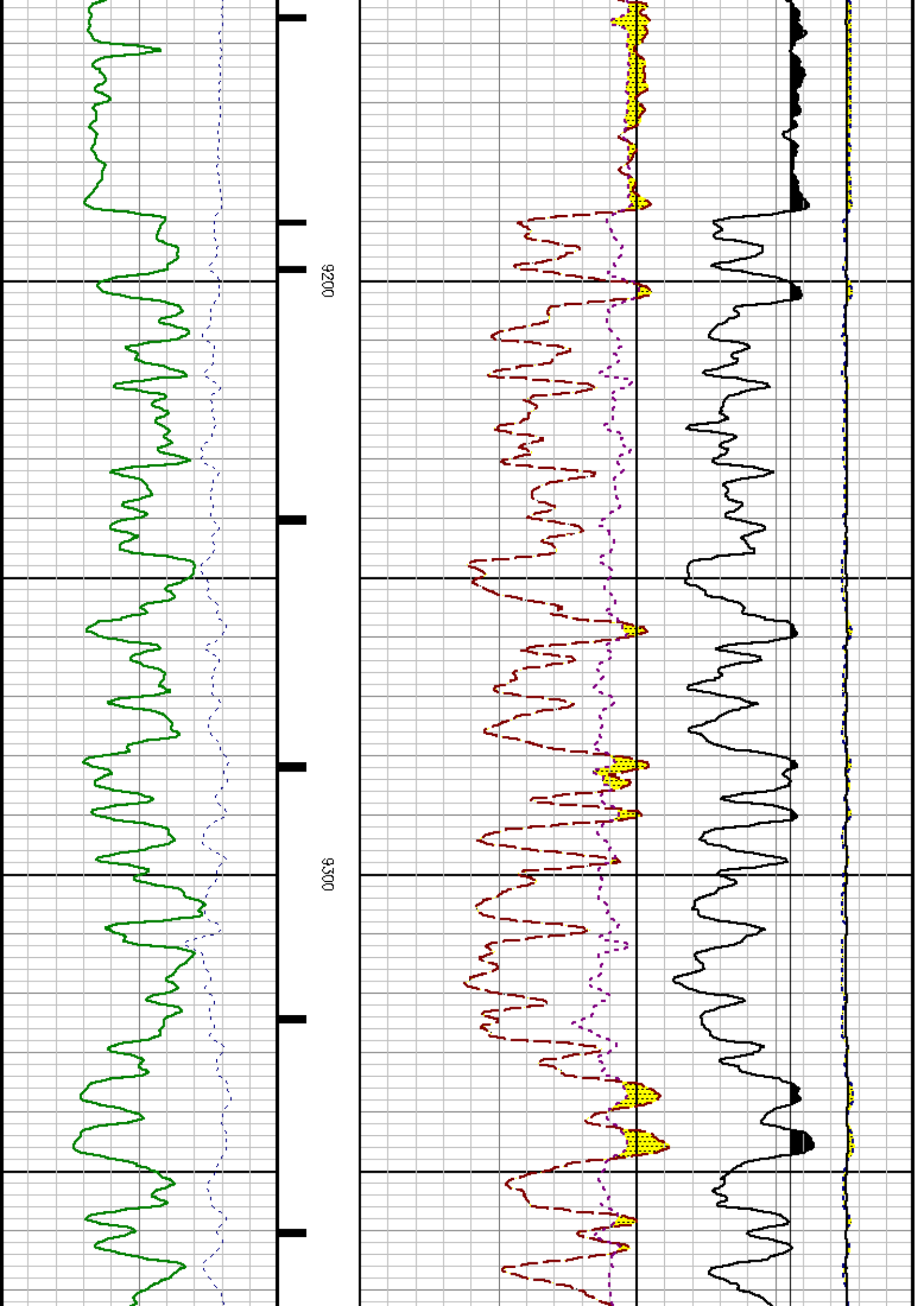


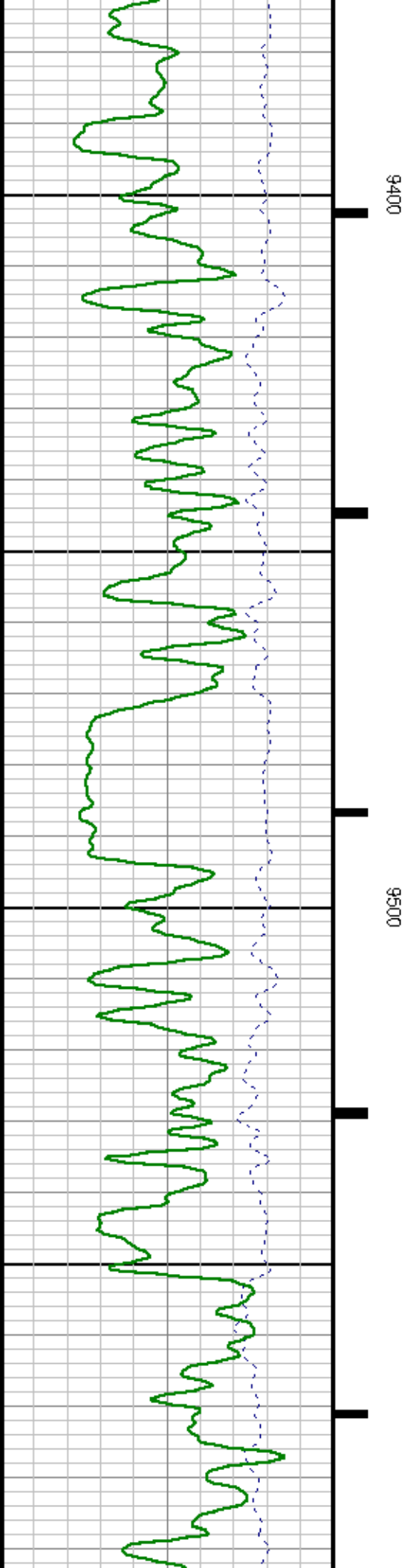
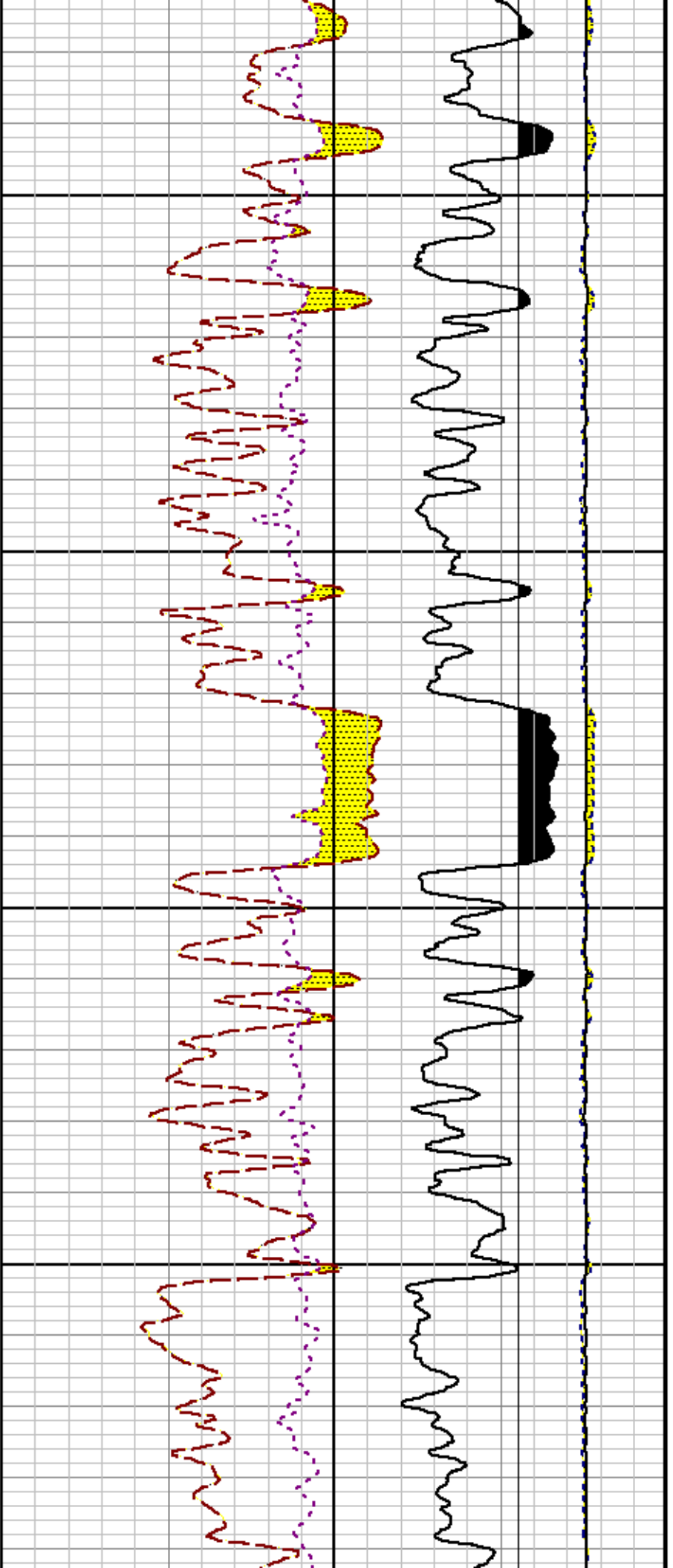
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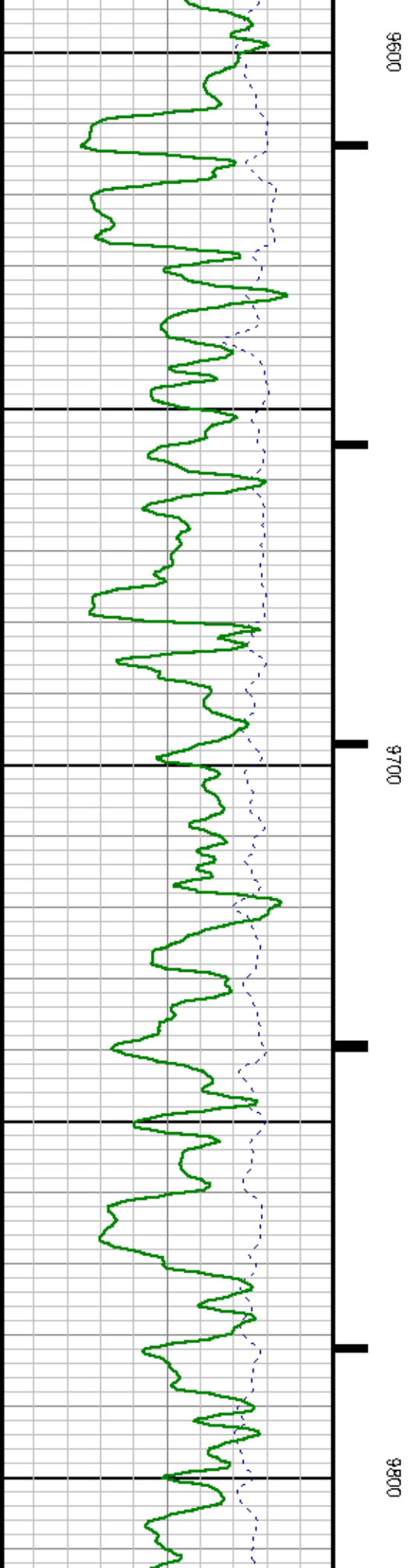
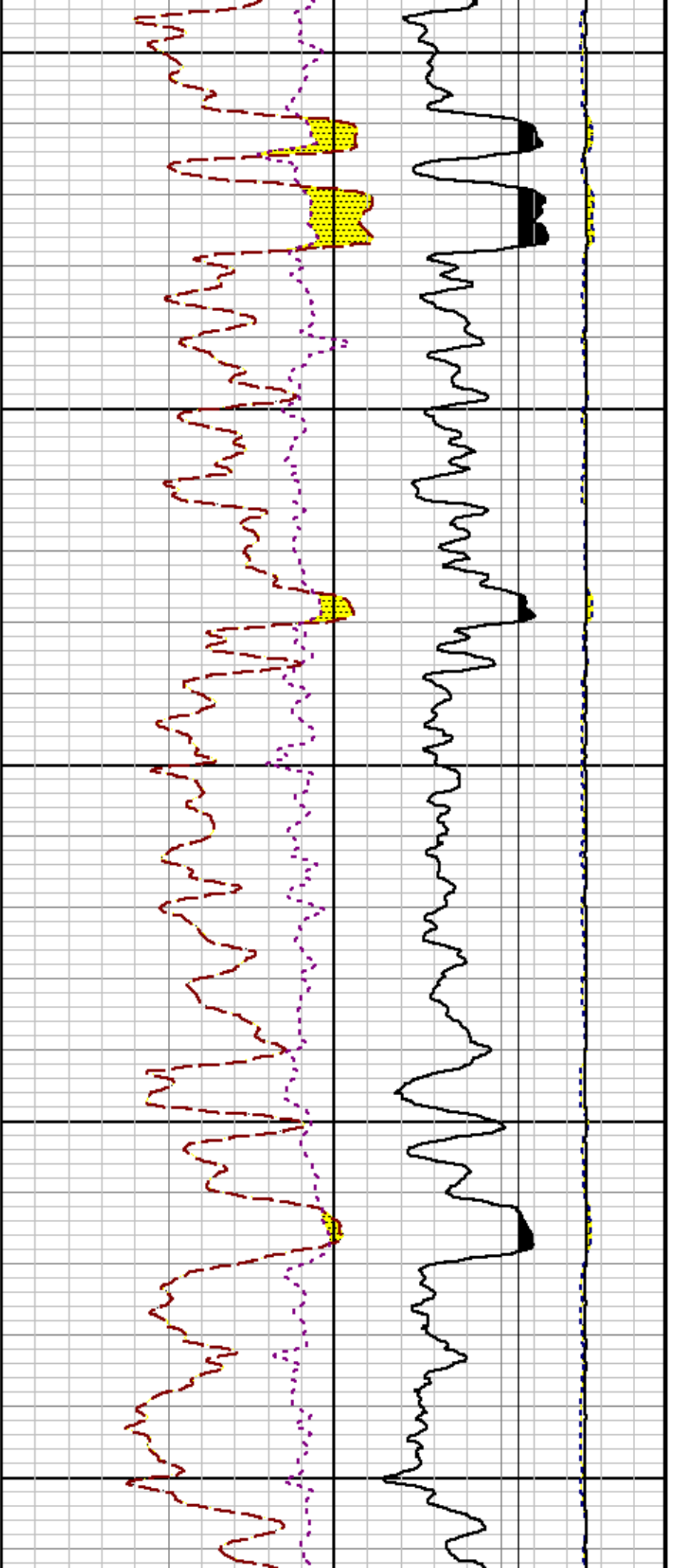
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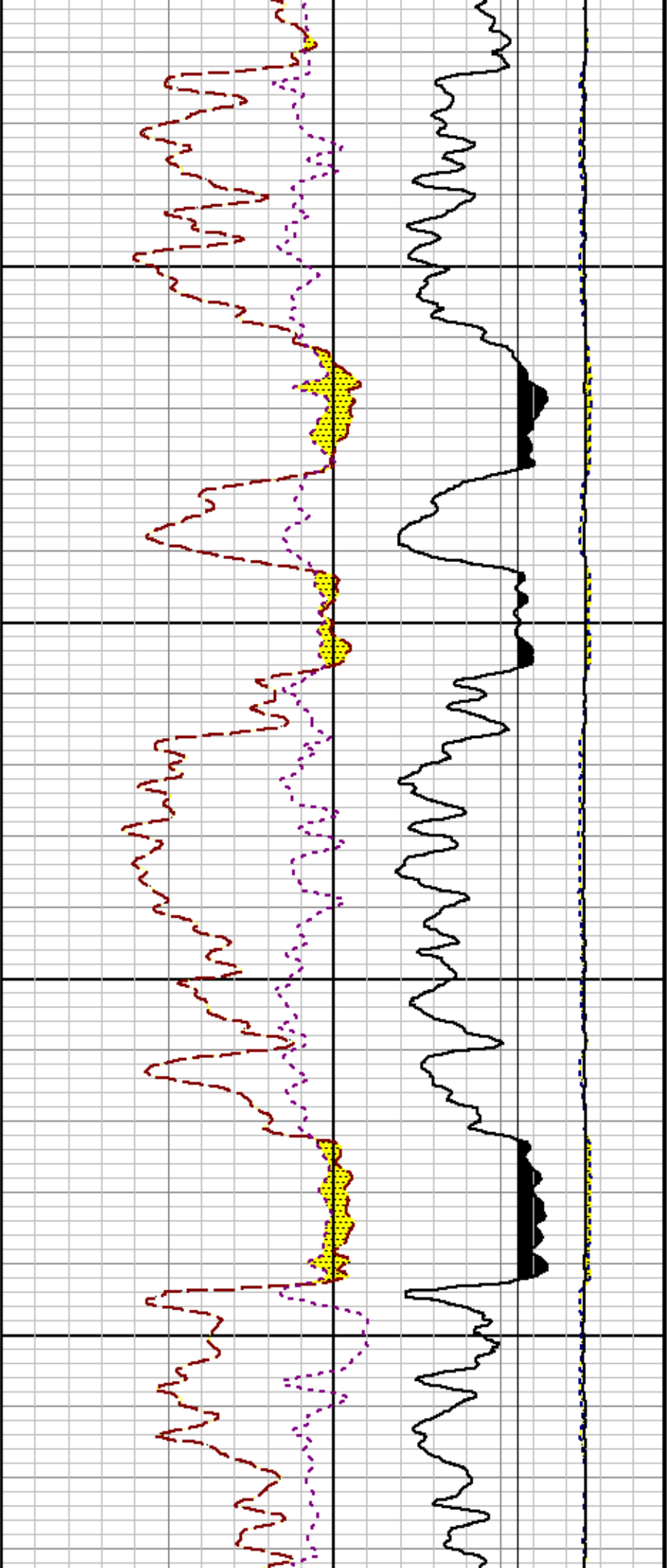






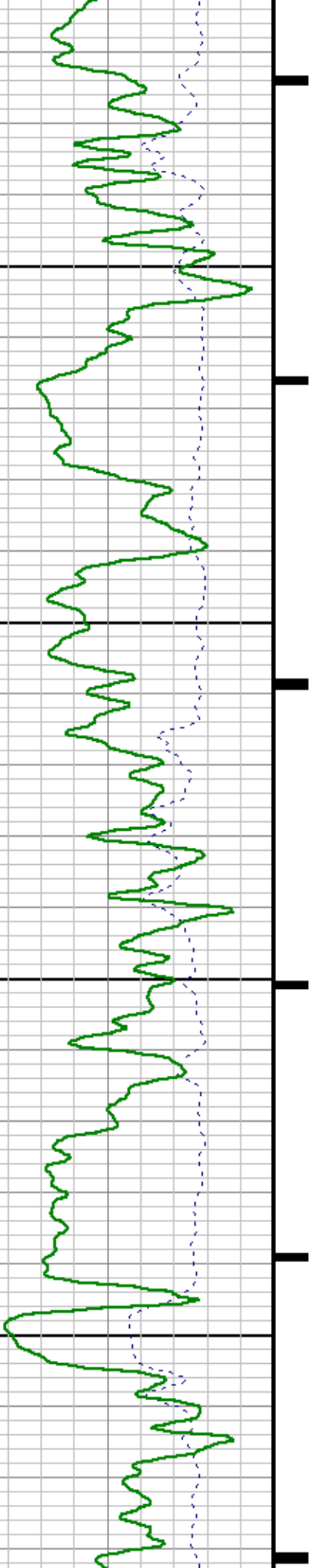


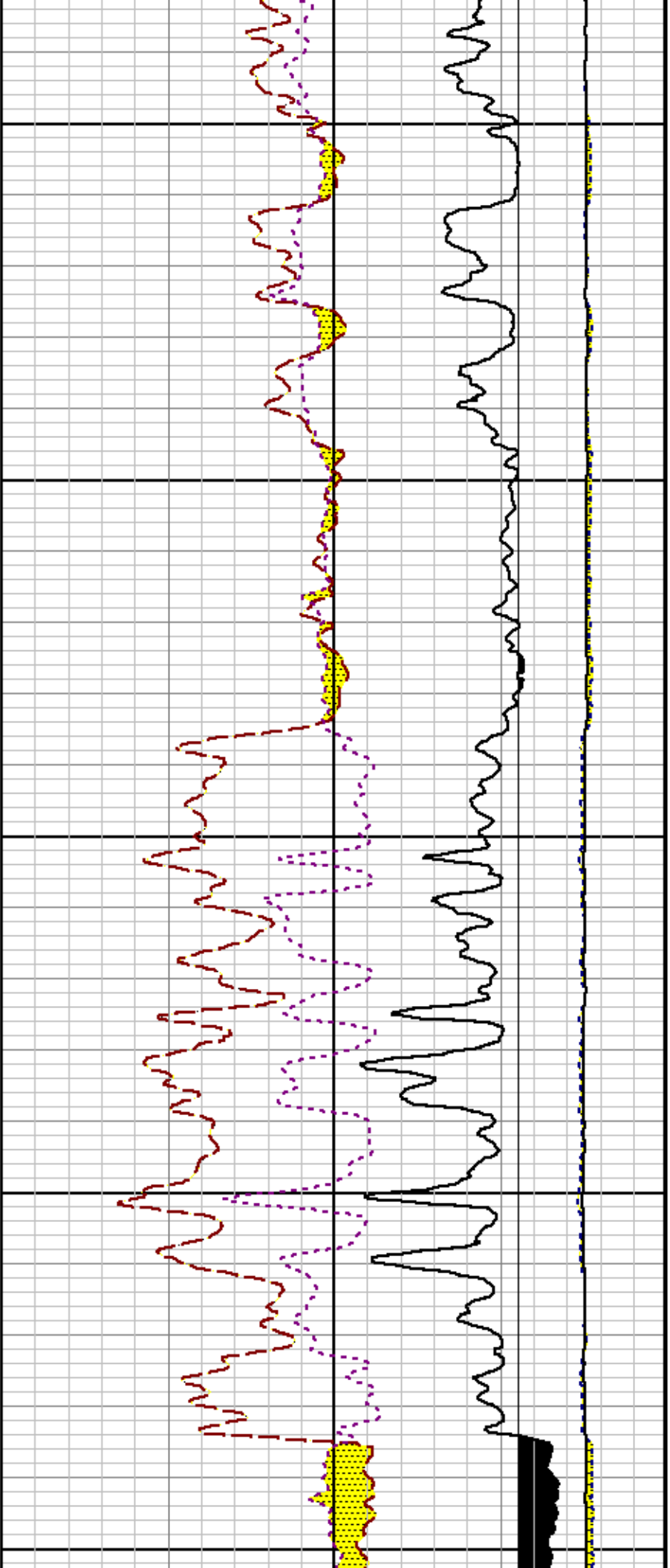




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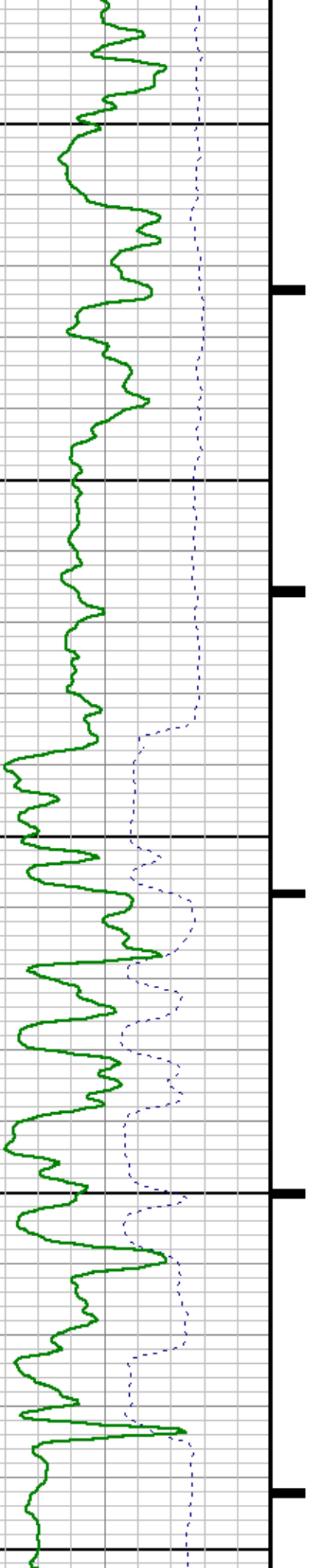
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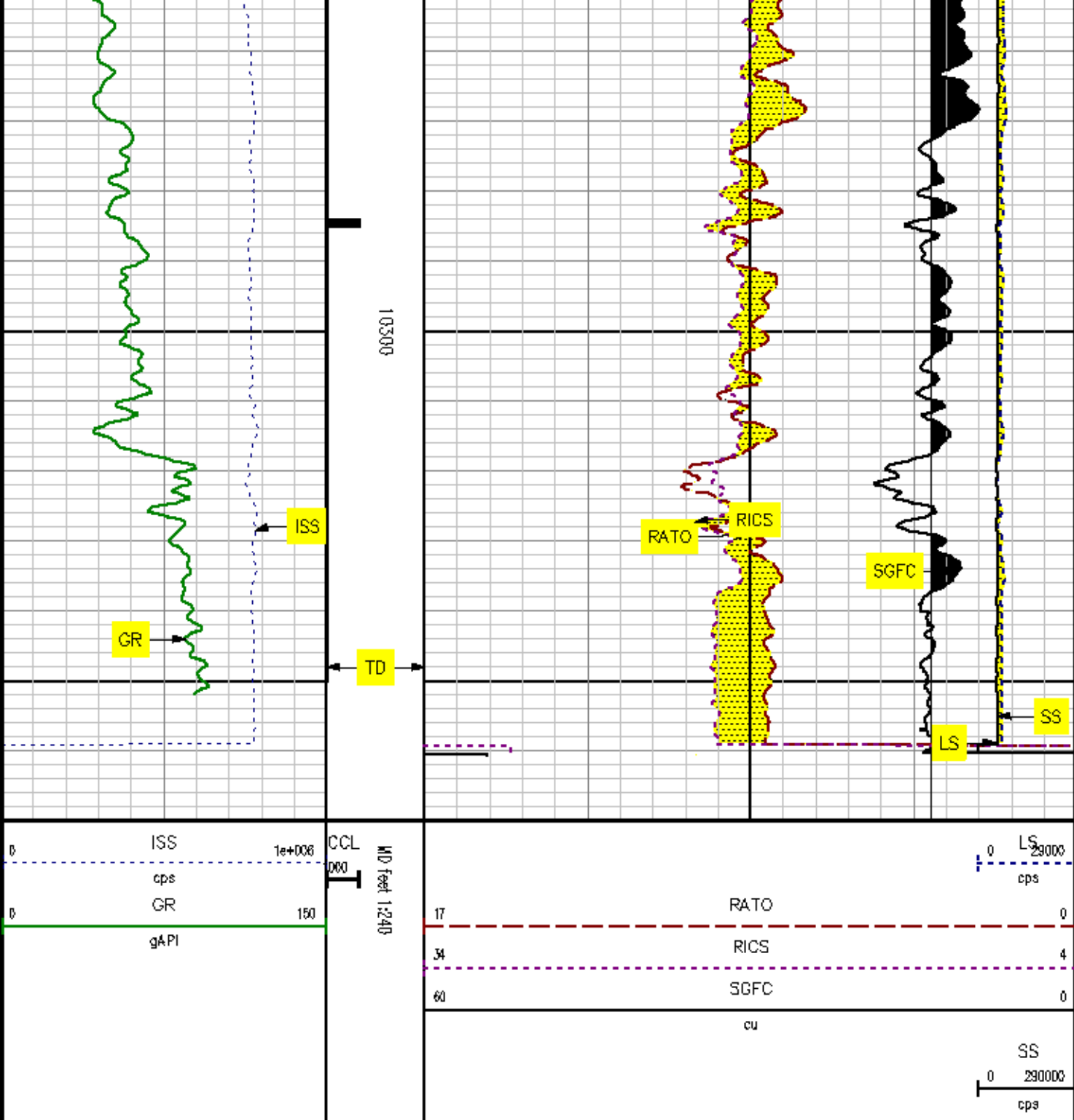




10100

10200





REPEAT SECTION

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
PNC Porosity	Borehole	Cased		9841.612	10350.000
PNC Porosity	Borehole Size	8.750	inch	9841.612	10350.000
PNC Porosity	Casing Size	4.500	inch	9841.612	10350.000
PNC Porosity	Gas Filled	Non Gas Filled		9841.612	10350.000
PNC Porosity	Matrix	Sandstone		9841.612	10350.000

DEPTH OFFSETS
(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
B248EA	-15.470	FLTM					
B248EA	-13.470	OCL CHV					
B262XA	-10.189	GR					
B281XA	-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					
B281XA	-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		
B281XA	0.000	OPRS	HVC1Q0	MV	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	RIGS	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	WD1M	WD2M	WD3M	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	GPK1	QSA1
		PKS1	ASPEC1	HOC	FE2XC	ISSC	RINC
		ISSN	RDEN	WDTH1	RICSC	CSSR	G1R
		SSR	ASPEC	SSR	SSR	SSR	SSR

D.500

GZR	ISSR	SSR	SSZR	RATUR	RATOT.
REORR	RICSR	RINR	RIN13R	RONER	RPORR
RTWOR					
TEN	TTEN				

Created by : RPM9, v5.0.0.0

Plotted by : PlotMgr, v5.4.504

Company : WARATHON OIL COMPANY

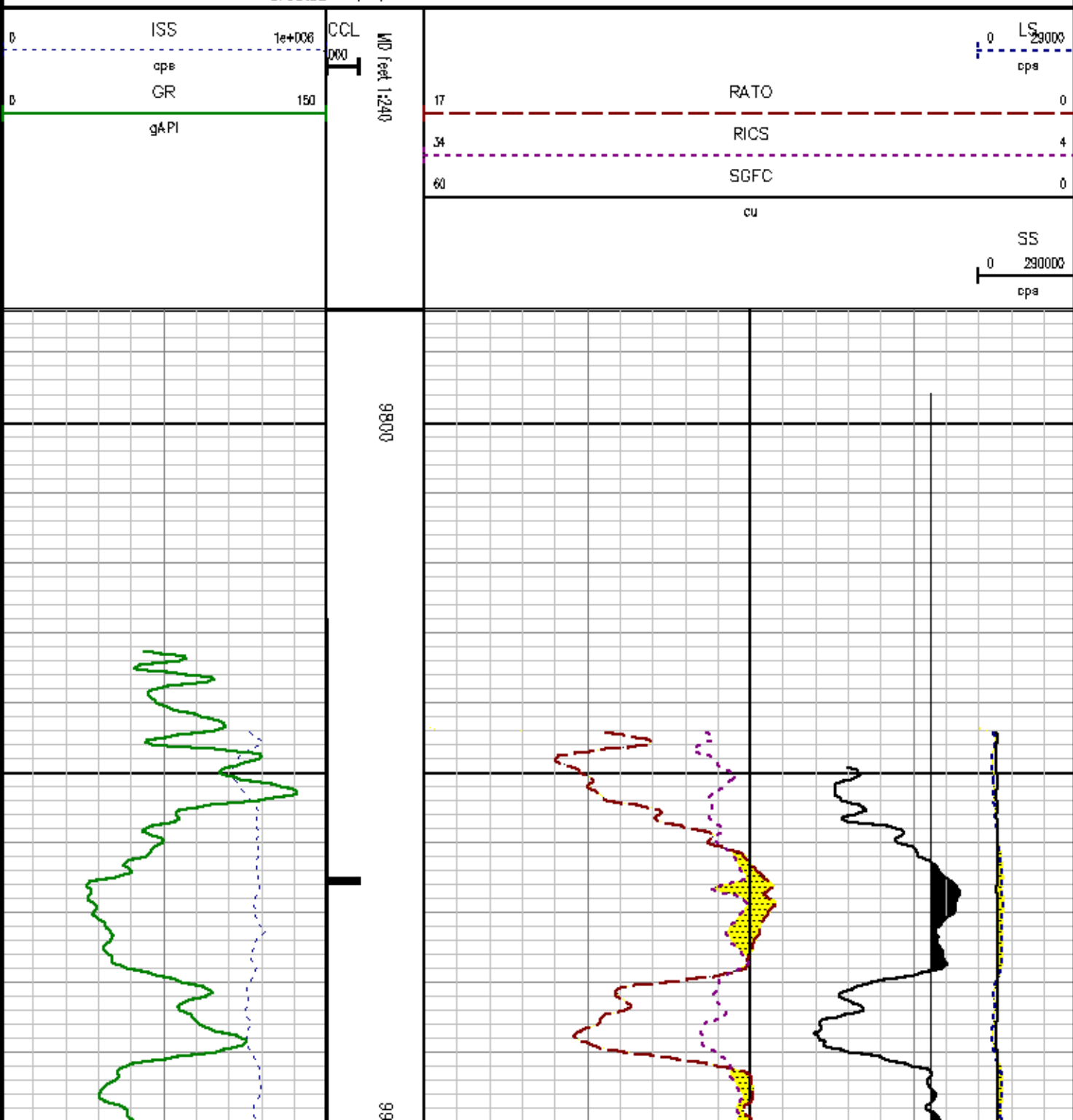
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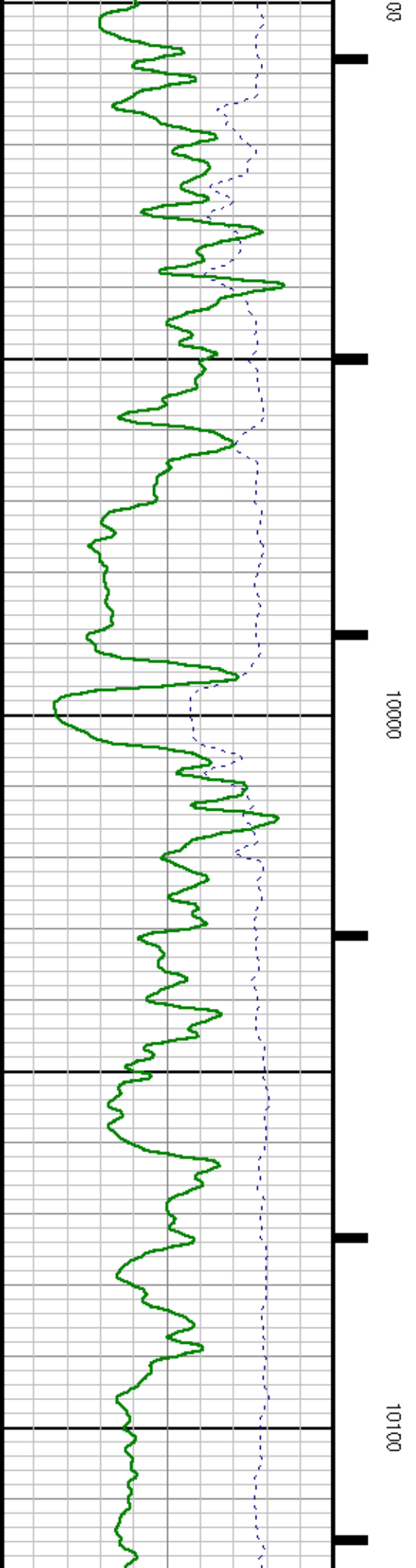
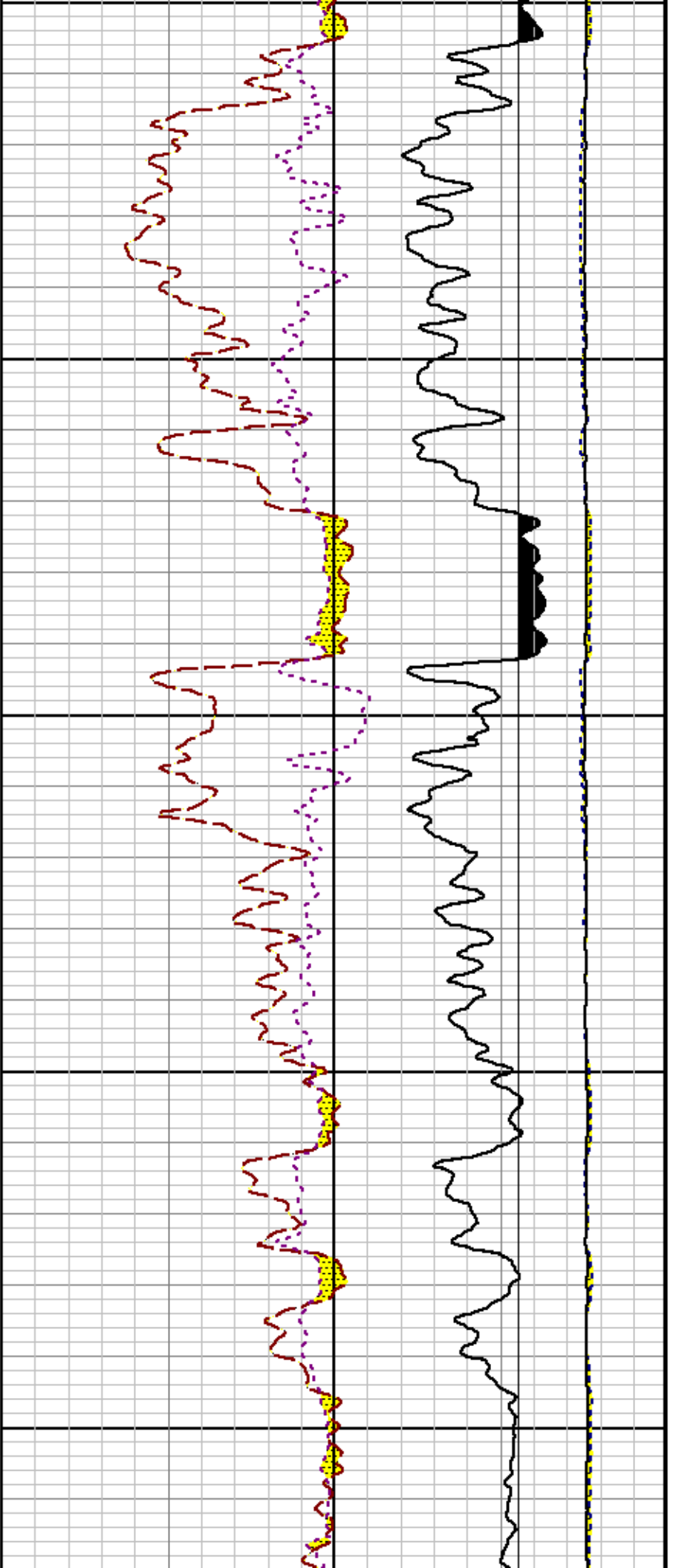
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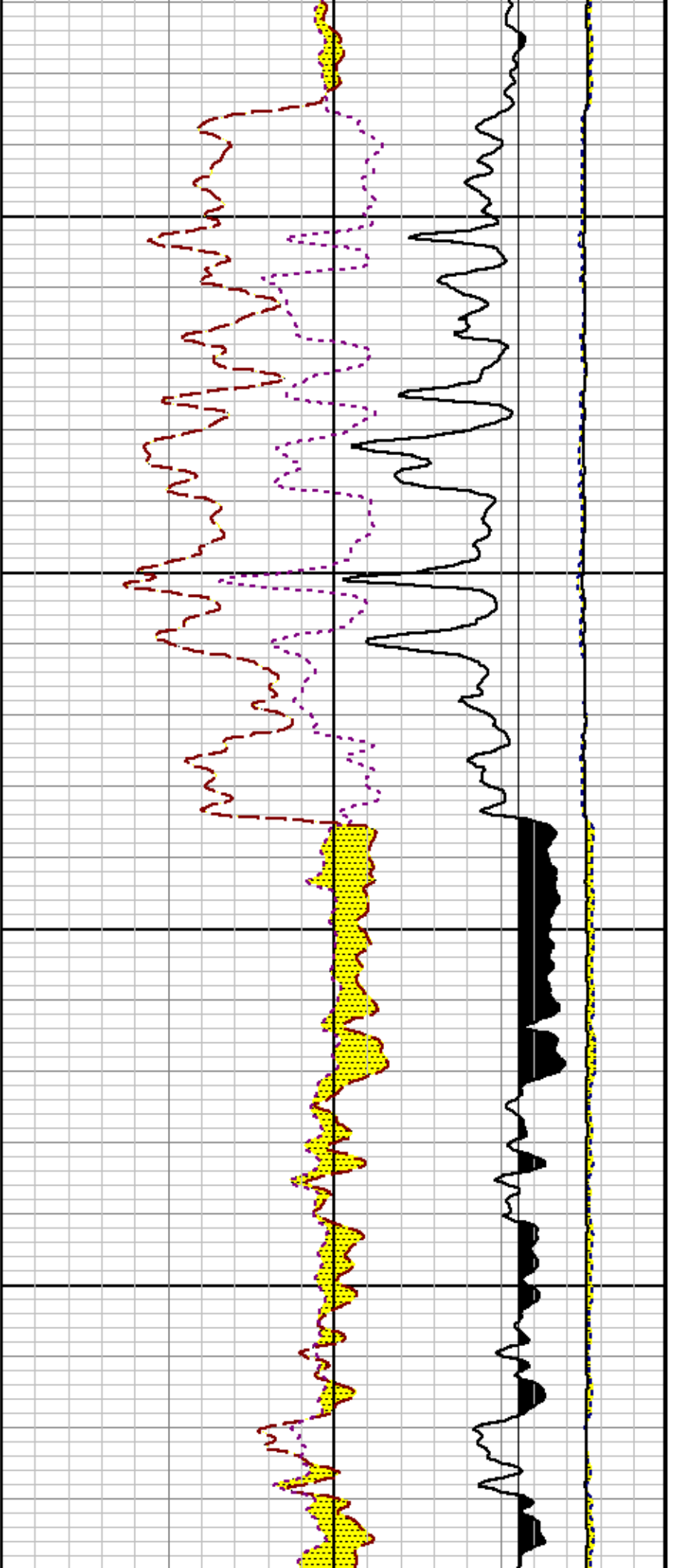
Mode : PlotMgr 5.4.504

Interval : 9784.00 - 10350.00 feet UP

Created : 8/25/2009 9:48:26 AM

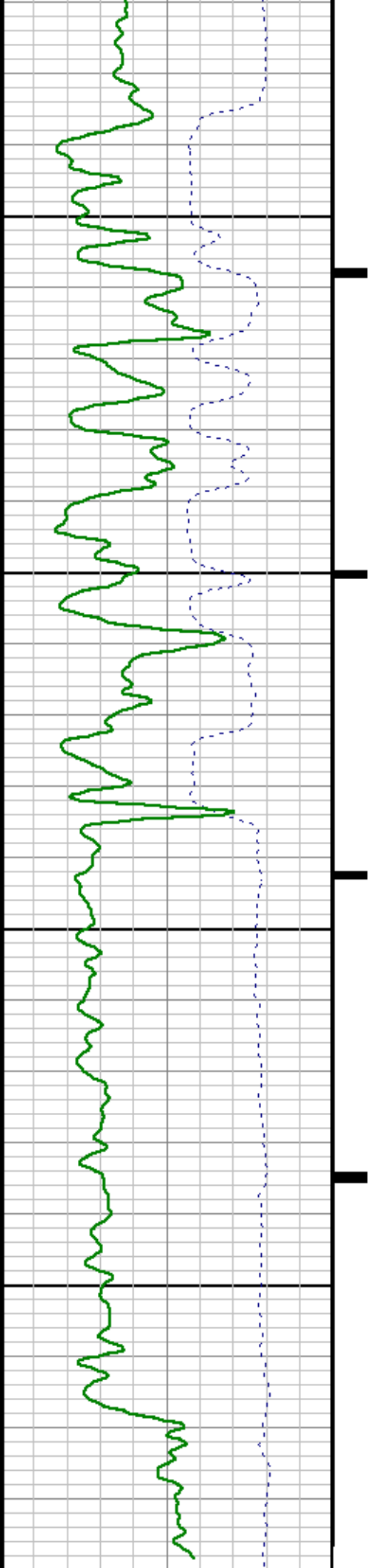


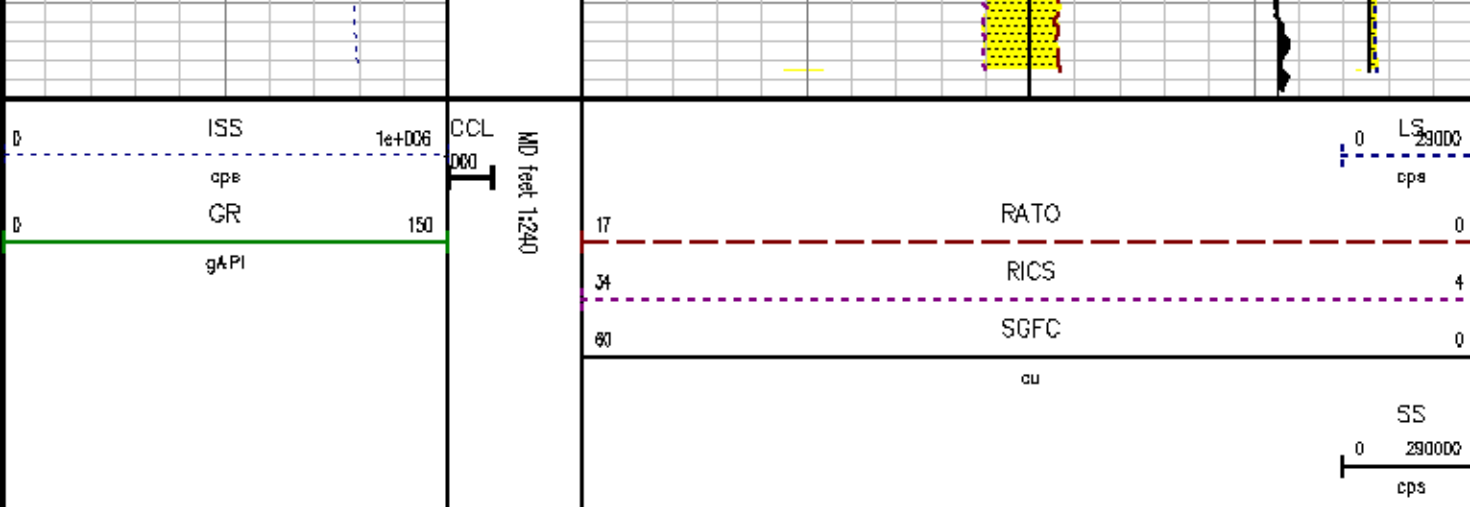




10200

10300





CALIBRATION SUMMARY

GAMMA RAY

Calibration File: C:\cgsa\calver\GE\7216J1.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Jun 02 15:45:29 2009 TOOL SERIES: 8262XA ASSET: 7216 SEQ: J1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K DA857	68.84	406.40	0.533	36.71	216.71	180.00

Verification File: C:\cgsa\calver\GE\7216J1.VP

PRIMARY VERIFICATION

DATE/TIME PERFORMED: Tue Jun 02 15:48:40 2009 TOOL SERIES: 8262XA ASSET: 7216 SEQ: J1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K DA857	69.22	403.36	0.533	36.91	215.09	178.18

PNC

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

PNC 3D CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Jun 02 09:18:24 2009 TOOL SERIES: 8281XA ASSET: 251 SEQ: J1

Calibrator #

SHOP SHOP

Source #

8281AA 10220687

	ISS	Mtr Vltz (V)	SS Gain	LS Gain	XLS Gain	EA Temp (degF)	Sync Delay (usec)	RCAL
Raw Data	802611	123.00	2292.00	2255.00	2251.00	116.00	15.00	0.9724
Interpolated	1300000	145.47	2280.41	2254.45	2248.26			

	ISS	BKS	BKL	BKX	SGA1	SDA1	SGA2	SDA2
Raw Data	802611	7375.24	1154.45	185.19	25.84	0.13	24.49	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	802611	167084.59	25679.20	95546.15	33987.95	8803.06	57994.77	14117.38
Fit Quality %		0.92	0.93	0.99	0.99	0.95	0.97	0.95

	ISS	RBOR	RIN ISS/ILS	RIN13 ISS/IXS	RICS ISS/CSS	RATO SS/LS	RTWD SS2/LS	RONE CSS/CLS
Raw Data	802611	1.44	4.80	31.26	13.84	10.85	3.86	4.11
		1.42 1.45	3.55 5.21	22.20 32.10	10.89 16.34	10.06 11.10	3.57 3.95	3.76 4.22
Fit Quality %		0.07	0.15	0.06	0.05	0.10	0.11	0.09
Reduced	1413230	1.44	4.80	31.25	13.84	10.84	3.86	4.10
		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

TOOL DIAGRAM

OTA SHORT CABLE HEAD

PCM POWER SUPPLY (8250EA)

TELEMETRY / CCL (8248EA)

30.84'

CCL MP 22.75'

GAMMA RAY (8262XA)

RESERVOIR PERFORMANCE MONITOR (8281XA)

GR MP 19.21'

XLS DETECTOR 12.69'

LS DETECTOR 9.72'
SS DETECTOR 9.49'

0.00'

Total Length: 30.84'
Total Weight: Not Available
Max Diameter: 0' 1.70"



Baker Atlas

CASE

Company MARATHON OIL COMPANY

Well 696-6A-13

Field GRAND VALLEY

County GARFIELD State COLORADO

File No:

1280

API No:

06-045-16847-0000

Location

893' FSL & 335' FEL

Elevations

KB 8108 ft

DF 8108 ft

GL 8085 ft

SEC 6 TWP 6S RGE 96W