



RESERVOIR PERFORMANCE MONITOR

Baker Atlas

File No:	Company	EXXONMOBIL PRODUCTION COMPANY
CH031614	Well	PCU 296-5A5
API No:	Field	PICEANCE CREEK
05-103-11244-00	County	RIO BLANCO
	State	COLORADO
Location		Other Services
N/A		3.70" GAUGE
749' FUL & 551' FUL		BOND
SEC 5	TWP 2S	RGE 88E
Permanent Datum	G.L.	Elevation
Log Measured From	K.B.	30.2 ft
Drill Measured From	KELLY BUSHING	Above P. D.
		Elevations
		KB 7326.2 ft
		DF 7325.2 ft
		GL 7296 ft

Date	17-MAR-2011	
Run	ONE	
Service Order	5741BS	
Depth Driller	13721 ft	
Depth Logger	13556 ft	
Bottom Logged Interval	13556 ft	
Top Logged Interval	8100 ft	
Time Started	18:00	
Time Finished	03:00	
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	BY/BOND	
Reference Log Date	18-MAR-11	
Equipment No.	4271	GRAND JCT.CO
Recorded By	TIM KAUTT	
Witnessed By	MR. WARC HUDON	

- 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		
7.875 in		

Casing Record				
Size	Weight	Grade	From	To
7 in	26 lbm/ft	P-110	SURFACE	9954 ft
4.5 in	15.1 lbm/ft	P-110	SURFACE	13721 ft

Remarks
THE CREW OF 4271 THANKS YOU.

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	RPM	82B1FA	11802752	FREE

1	1	RPM	8281PA	11802753	FREE
1	1	RPM	8281EA	1182751	FREE
1	1	GAMMA RAY	8262XA	10485470	FREE
1	1	OCL	8248EA	11788758	FREE
1	1	PCM	8250EA	11796889	FREE

MAIN SECTION IN PNC 3-D MODE

SPL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
PNC Porosity	Borehole	Cased		8097.560	13575.872
PNC Porosity	Borehole Size	7.875	inch	8097.560	13575.872
PNC Porosity	Casing Size	4.500	inch	8097.560	13575.872
PNC Porosity	Gas Filled	Non Gas Filled		8097.560	9964.000
PNC Porosity	Gas Filled	Non Gas Filled		9964.000	13575.872
PNC Porosity	Matrix	Sandstone		8097.560	13575.872

DEPTH OFFSETS (for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
8248EA	-15.320	FLTW					
8248EA	-13.320	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					
		HVC2Q0	SEQ2	AMA2	AMB2	AMF2	AML2
		BKL	CHF2	CLS	CPT2Q0	CPT2Q2	CPT2Q3
8281XA	-0.250	CPT2Q4	ET2	ILS	LS	MCS2	MCS2Q0
		8248EA	8248EA	8248EA	8248EA	8248EA	8248EA
		8248EA	8248EA	8248EA	8248EA	8248EA	8248EA

B281XA

0.000

QCAL2	RGN2	RTCL	RONE23	RTN023	SDA2
SDL2	SGA2	SGB2	SGF2	SGK2	SGL2
STA2	ASPEC2	ILSC	ILSN	WIDTH2	RICLC
GLSR	ILSR	LSR	RICLR		
GPR5	HVC100	WV	SEQ	SED1	AMA1
AMB1	AME1	AMF1	AML1	BKS	CHF1
CSS	CORB	CORF	CPT100	CPT102	CPT102A
CPT102B	CPT102C	CPT103	CPT104	CPT105	ET1
G1	G2	GE1S	GE2S	ISS	MCS1
MCS100	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	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	WIDTH1	RICSC	CSSR	G1R
G2R	ISSR	SSR	SS2R	RATOR	RAT013R
RBORR	RICSR	RINR	RIN13R	RONER	RPORR
RTWOR					
SYSTEM	0.000	TEN	TTEN		

Created by : RPMB, v5.0.0.0

Plotted by : PlotMgr, v5.4.5D4

Company : EXXONMOBIL PRODUCTION COMPANY

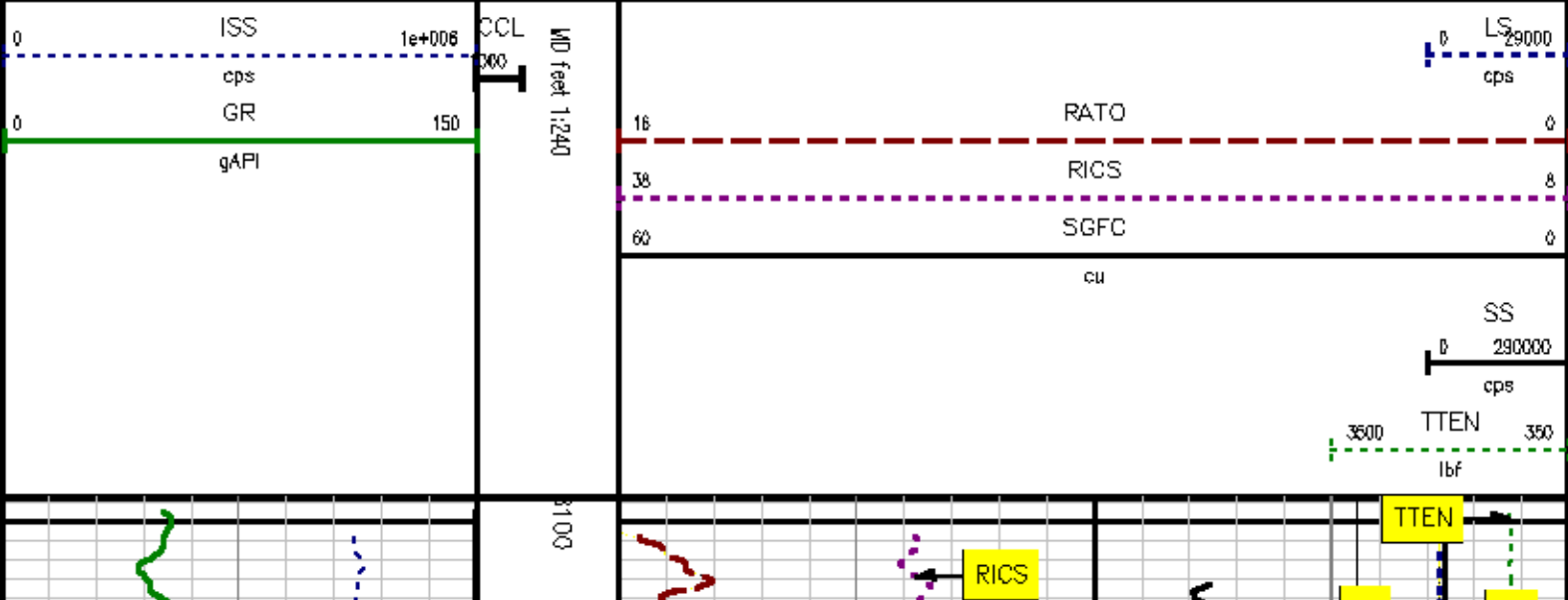
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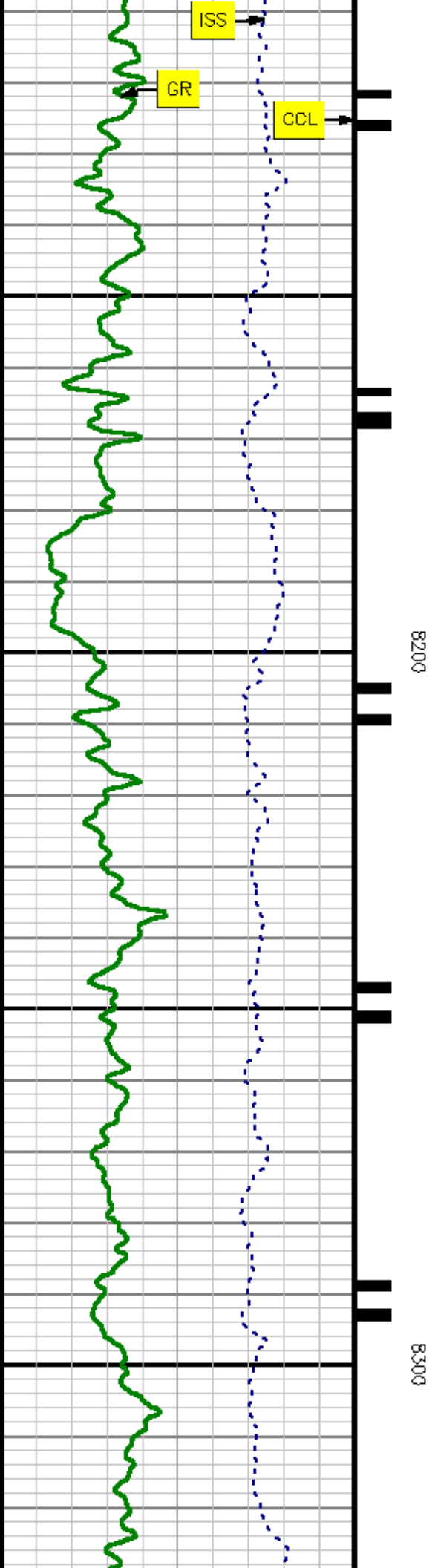
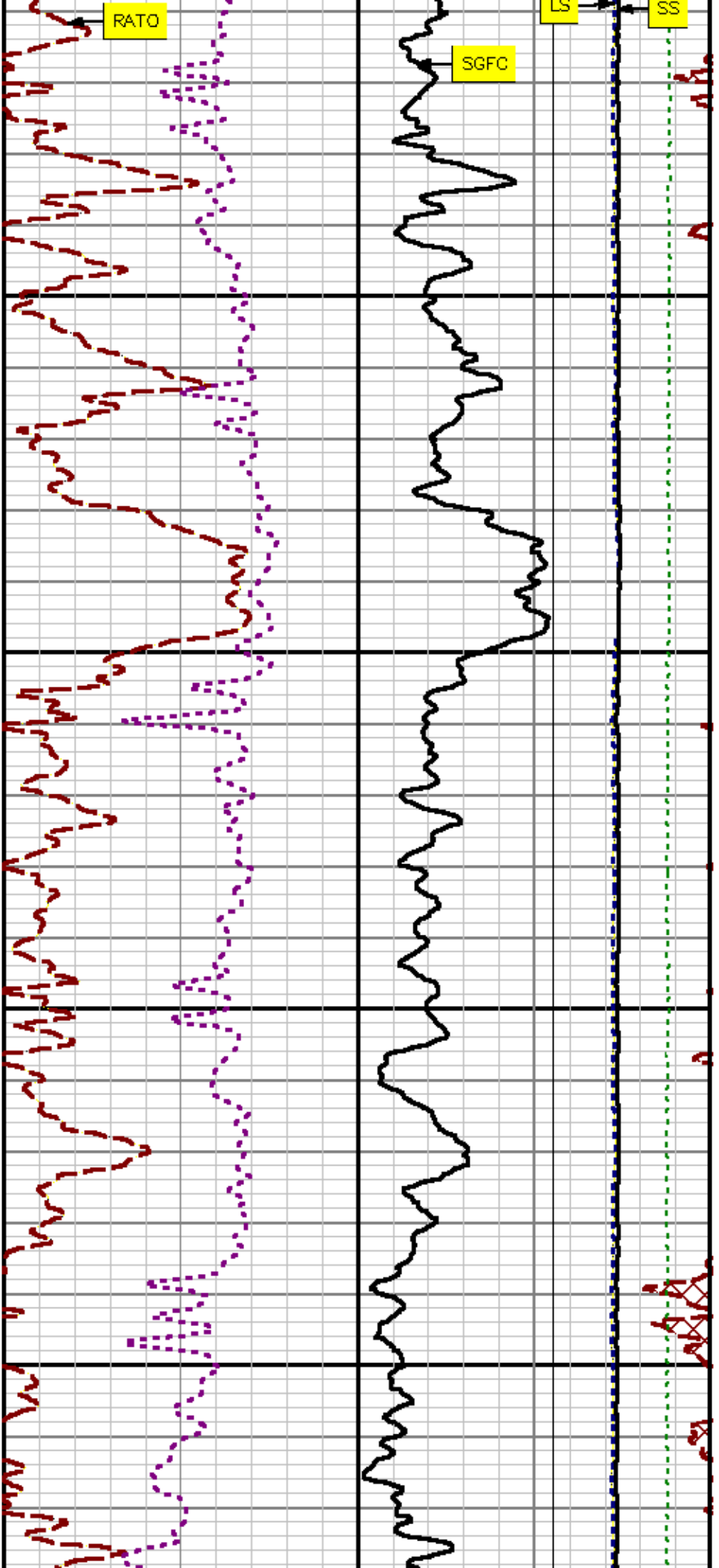
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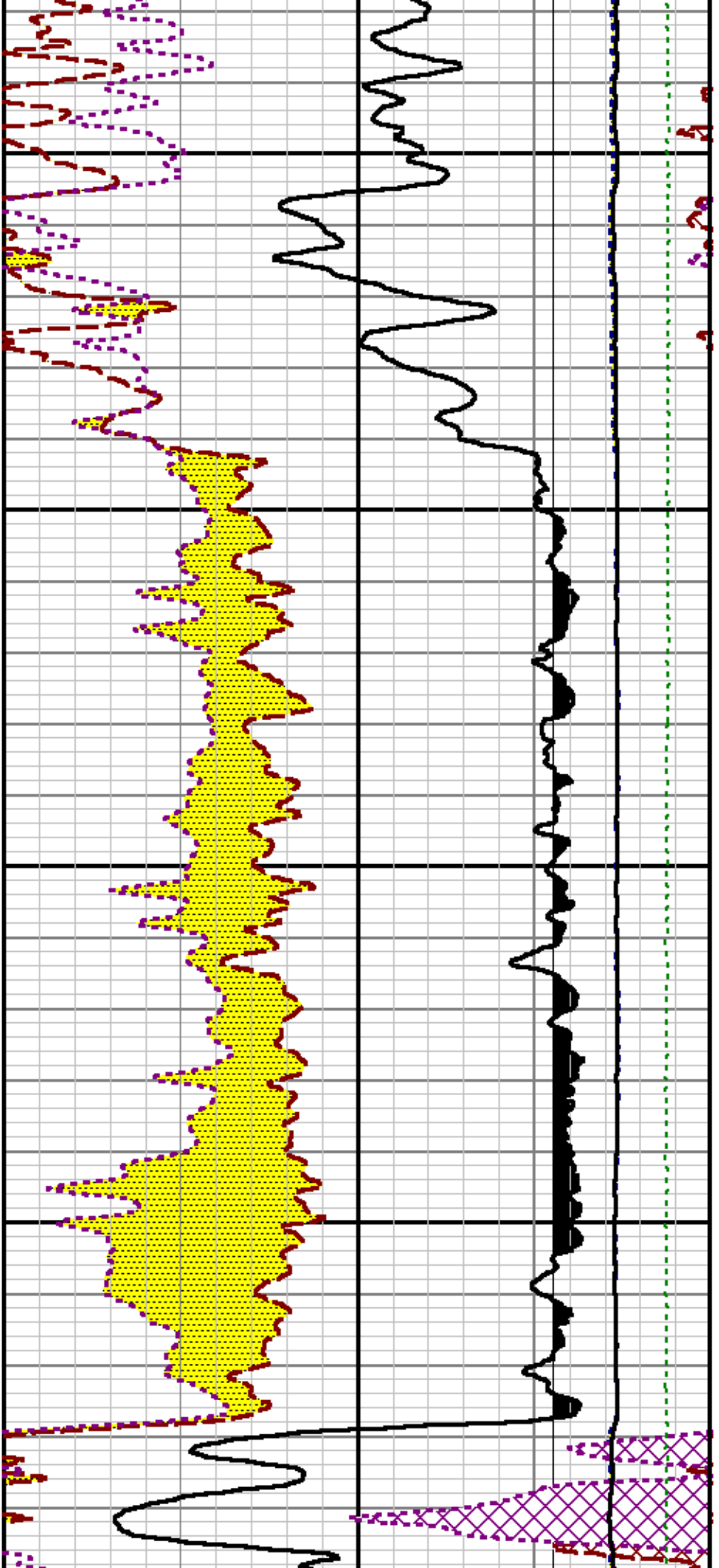
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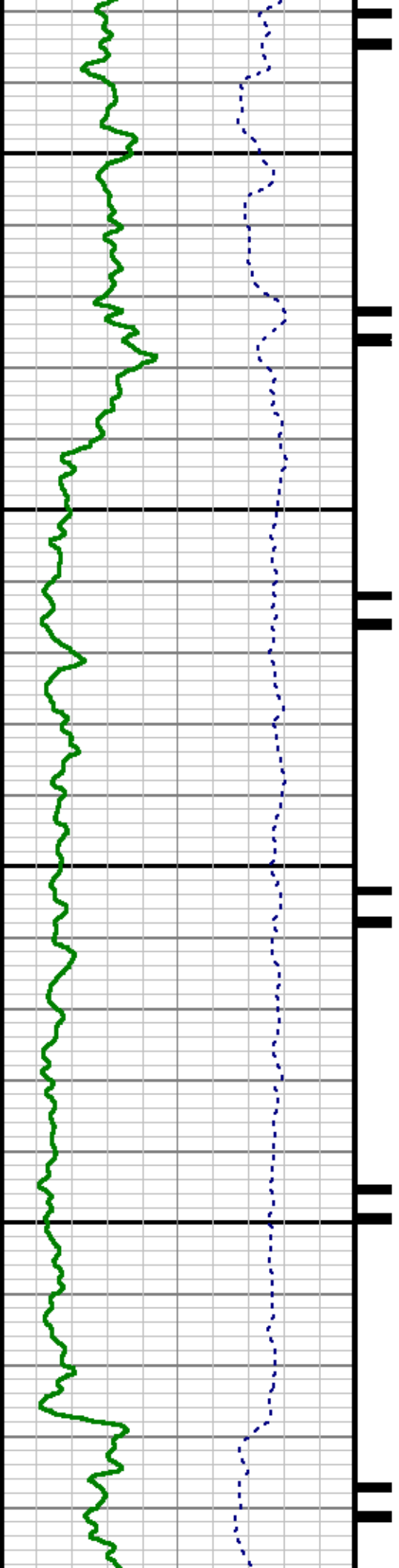


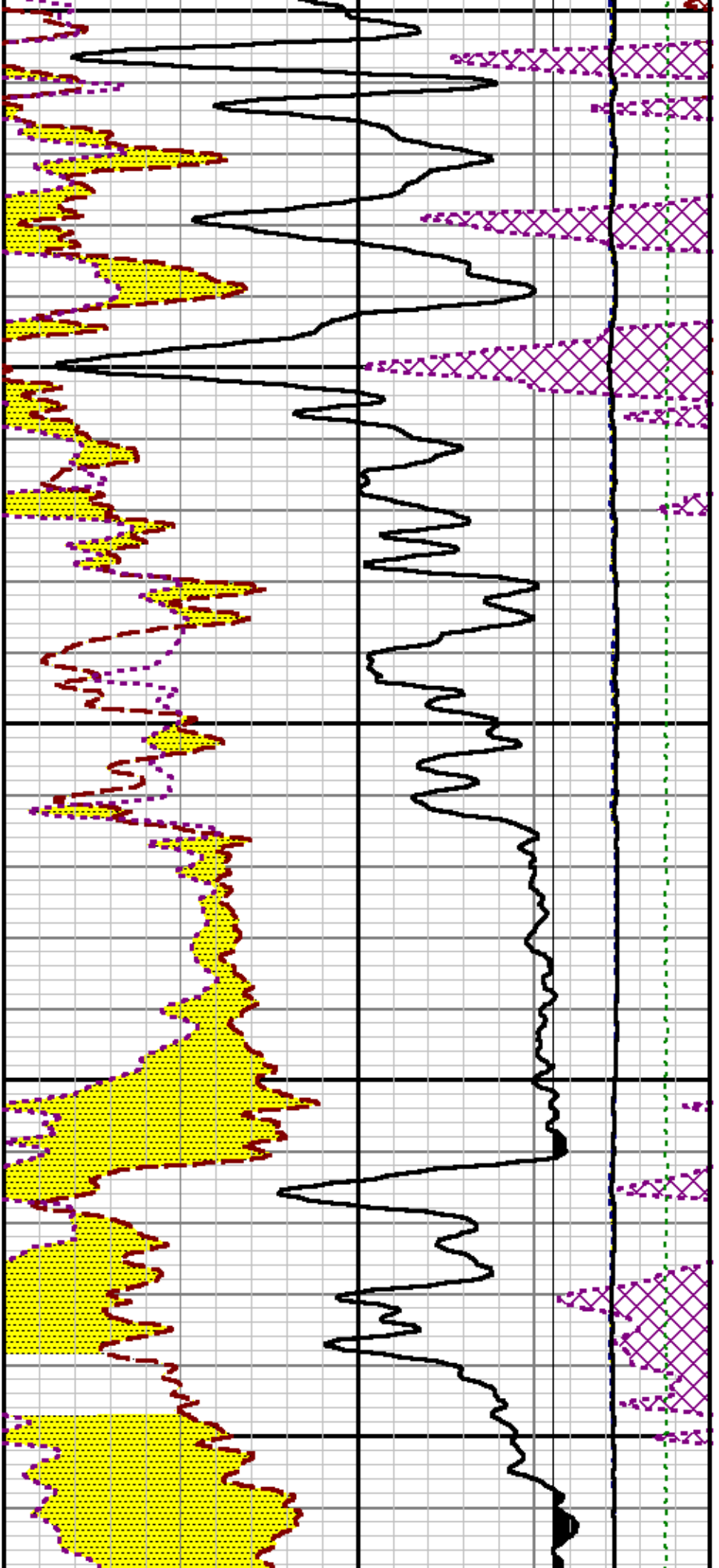




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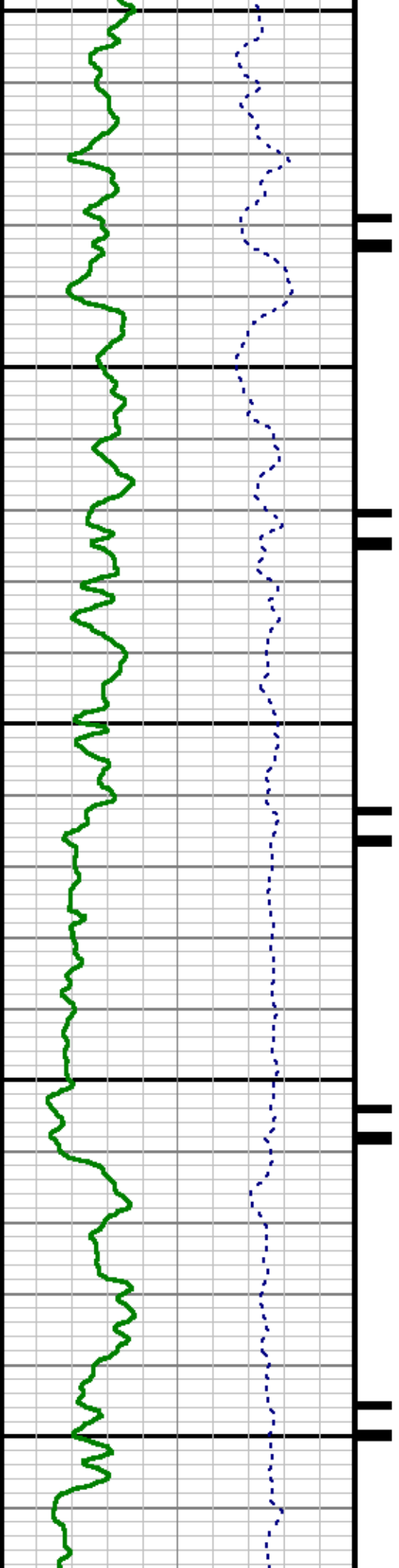
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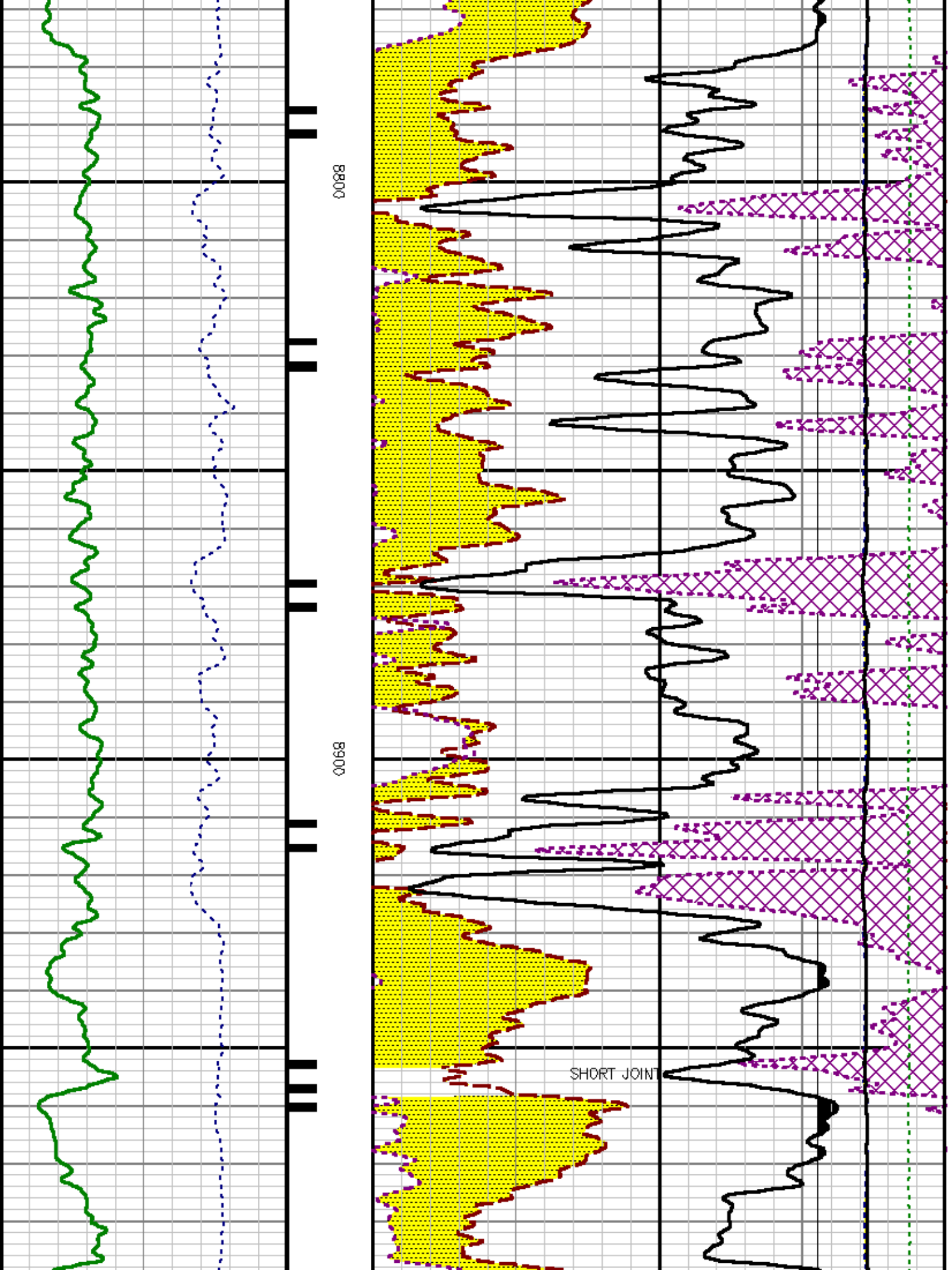


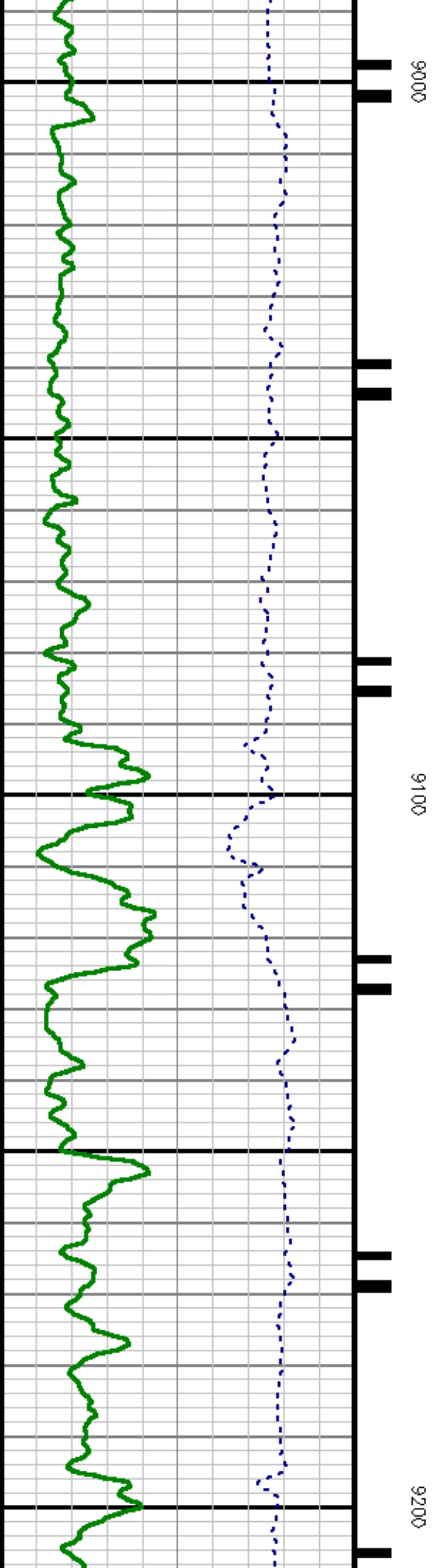
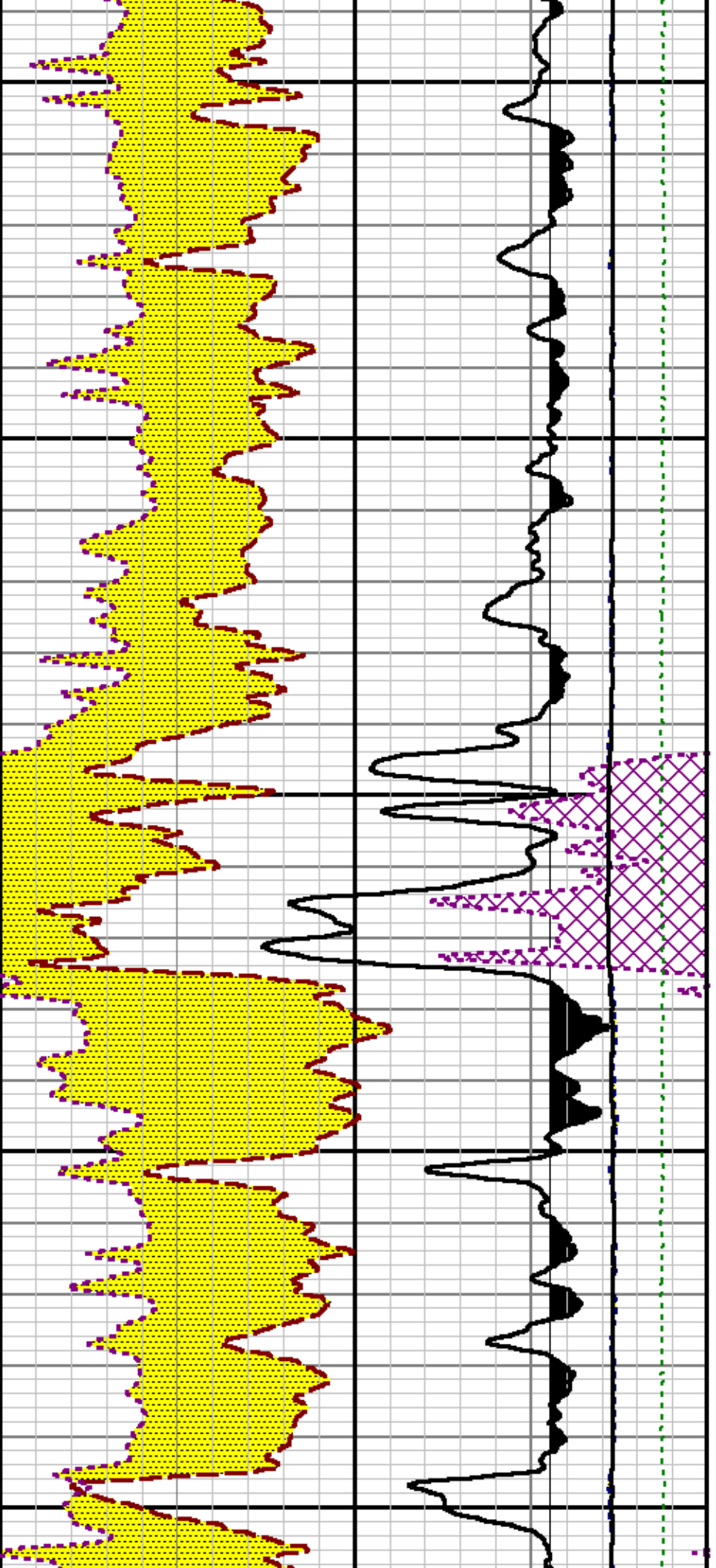


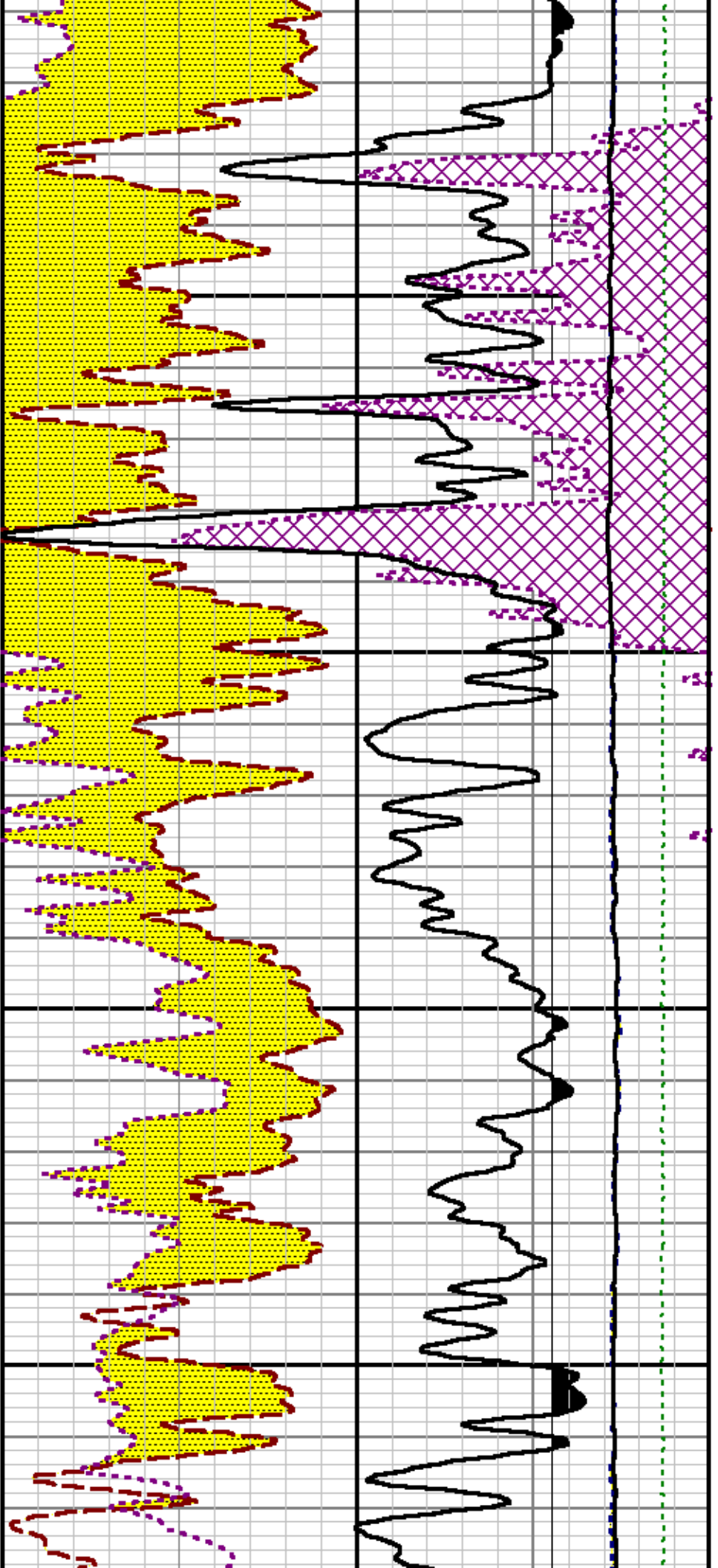
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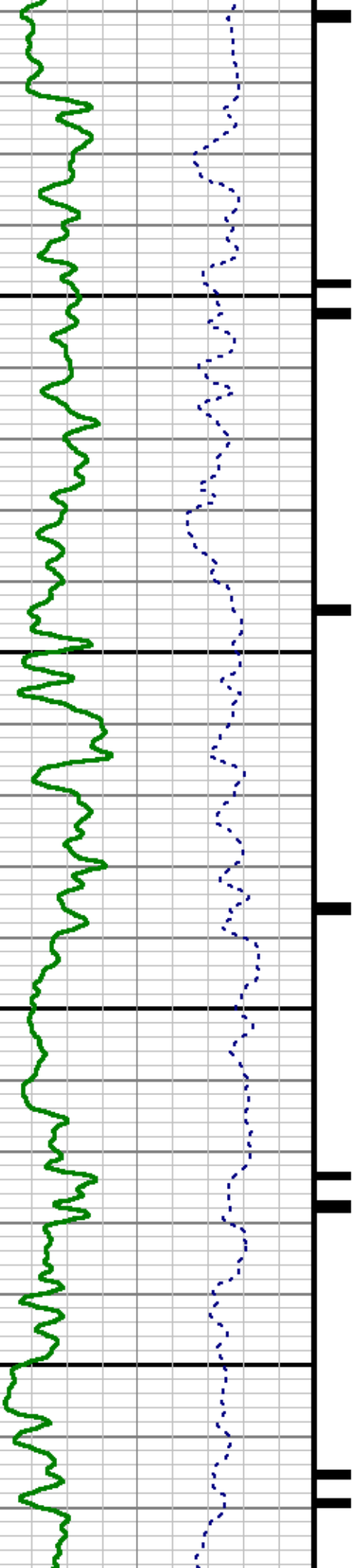


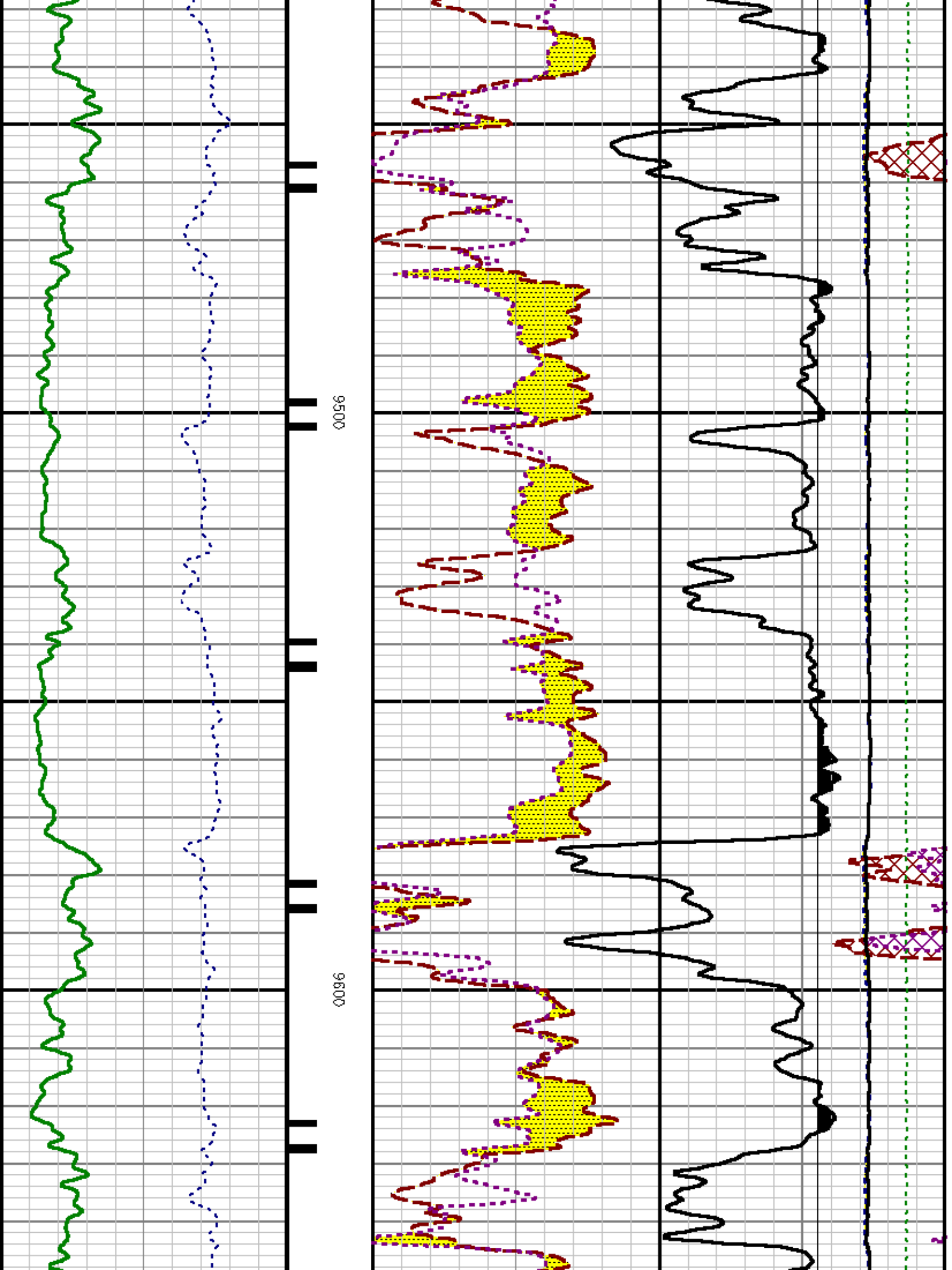


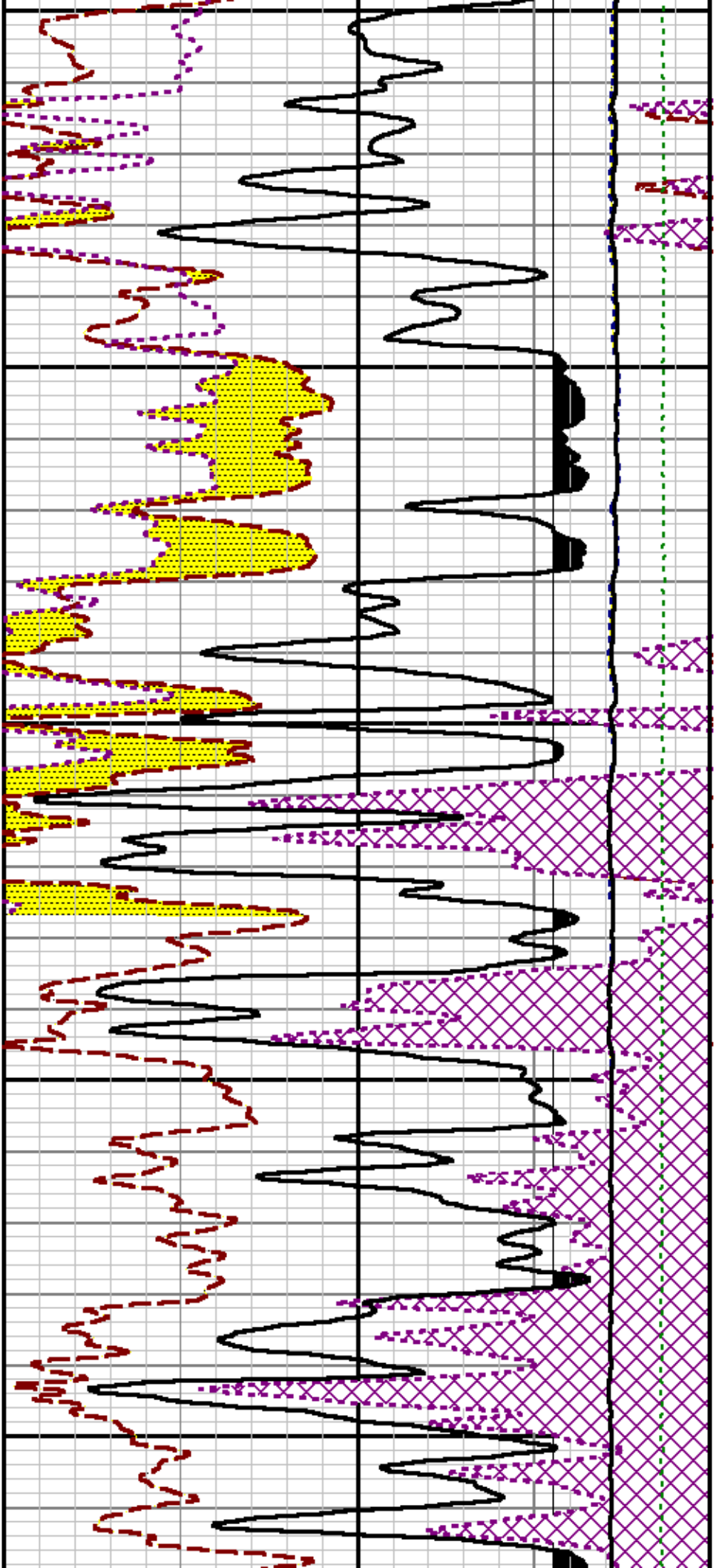


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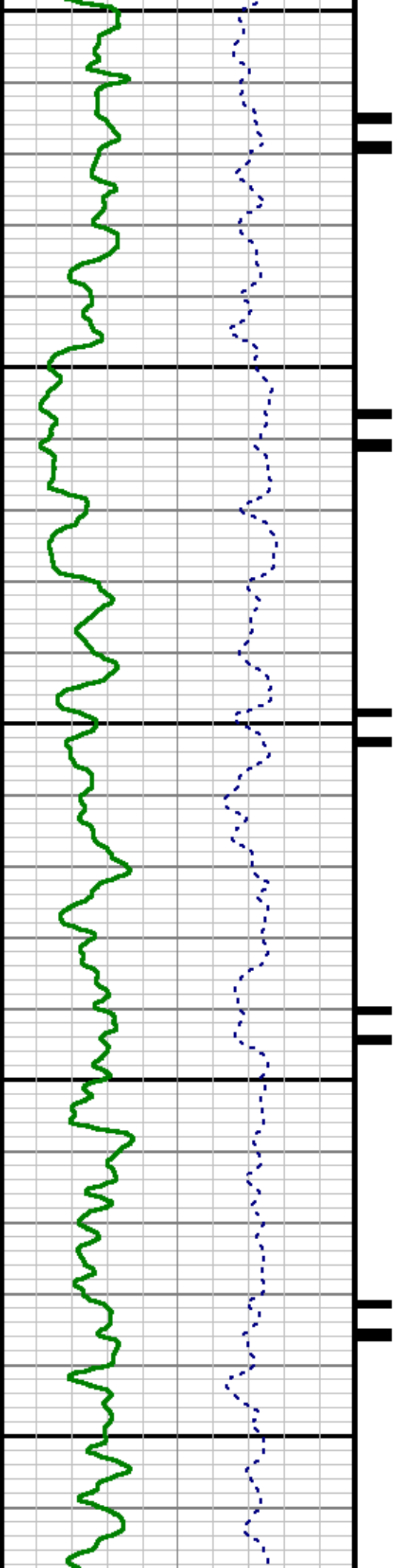


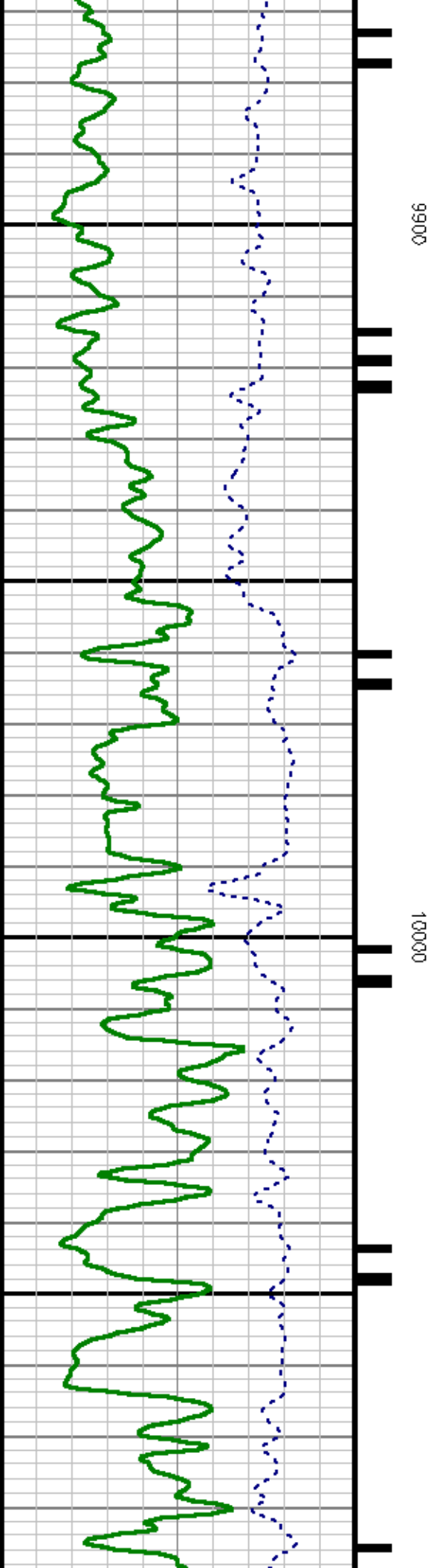
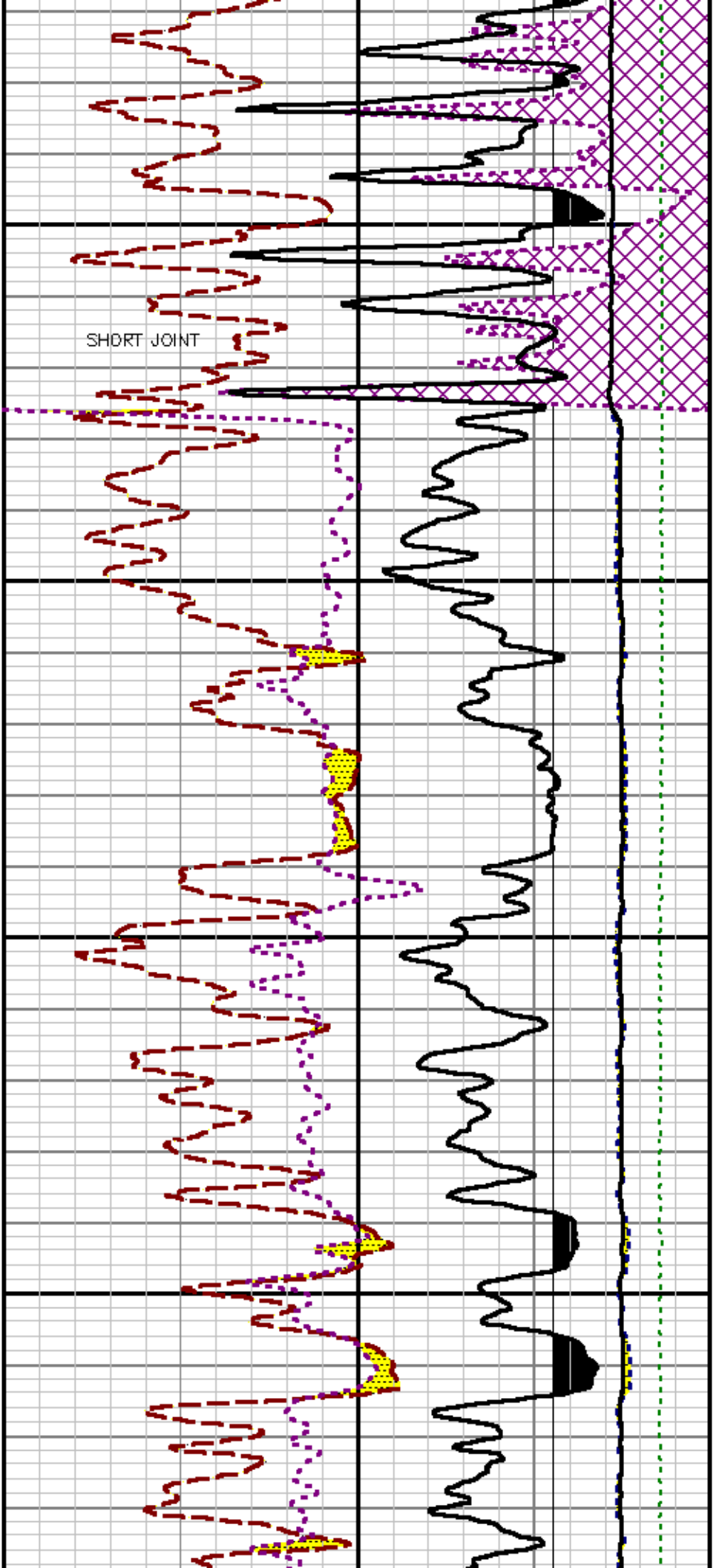


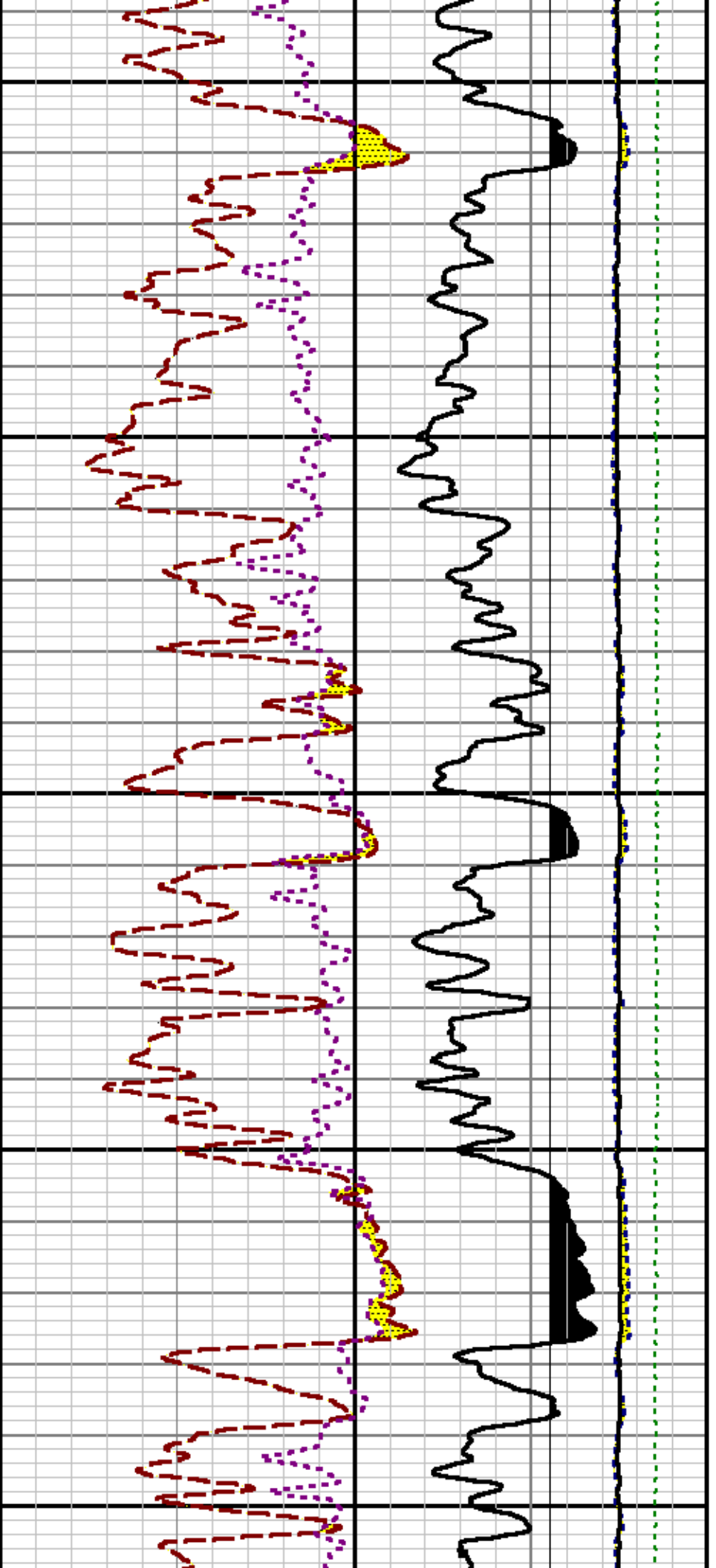


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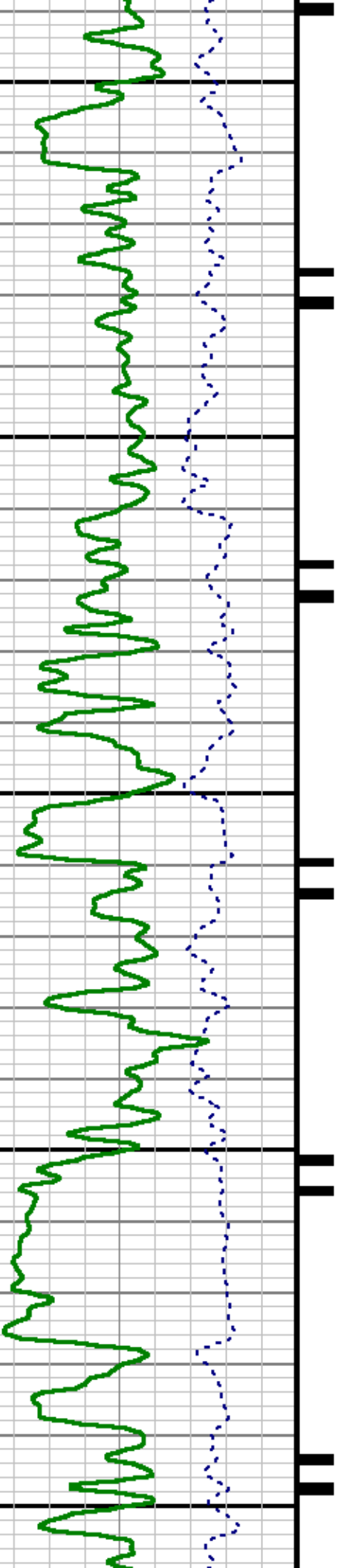


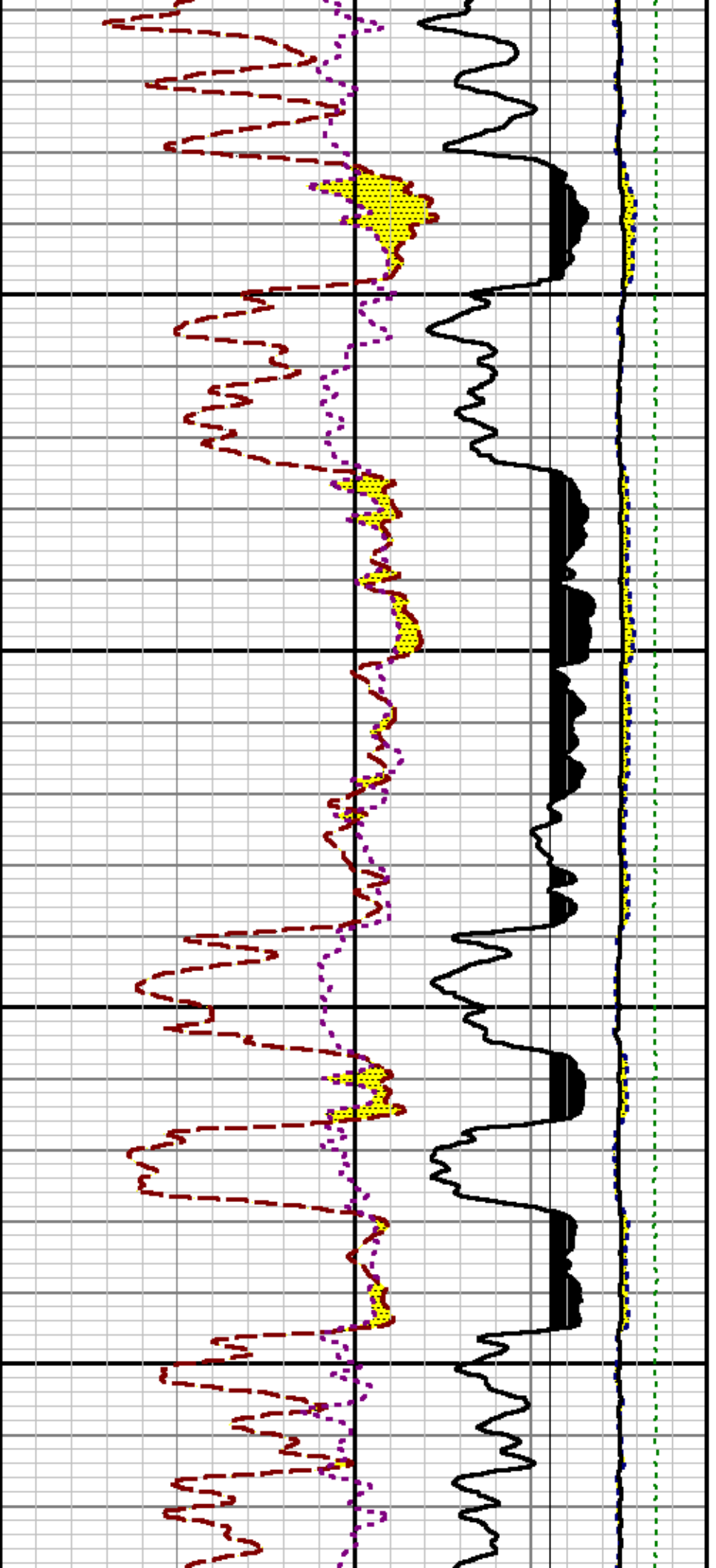


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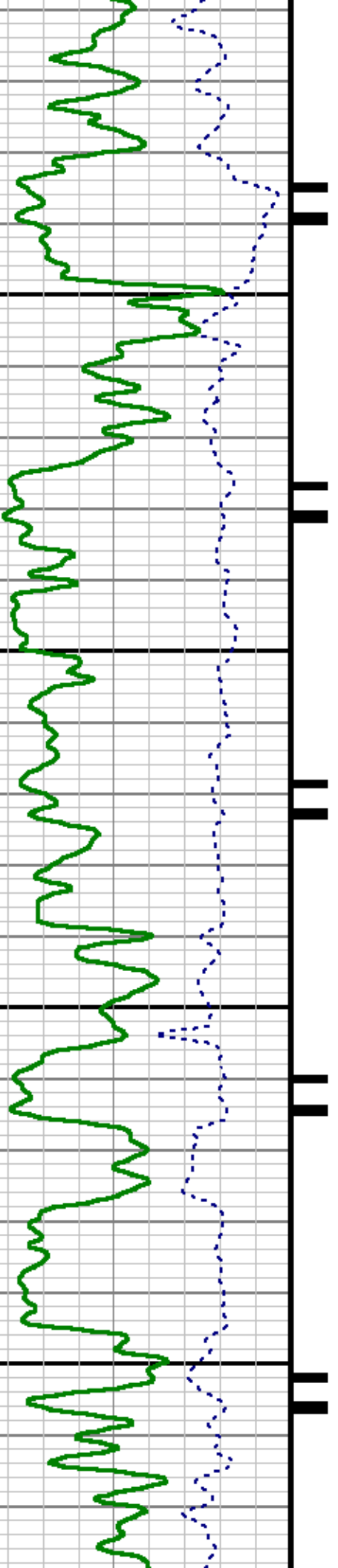
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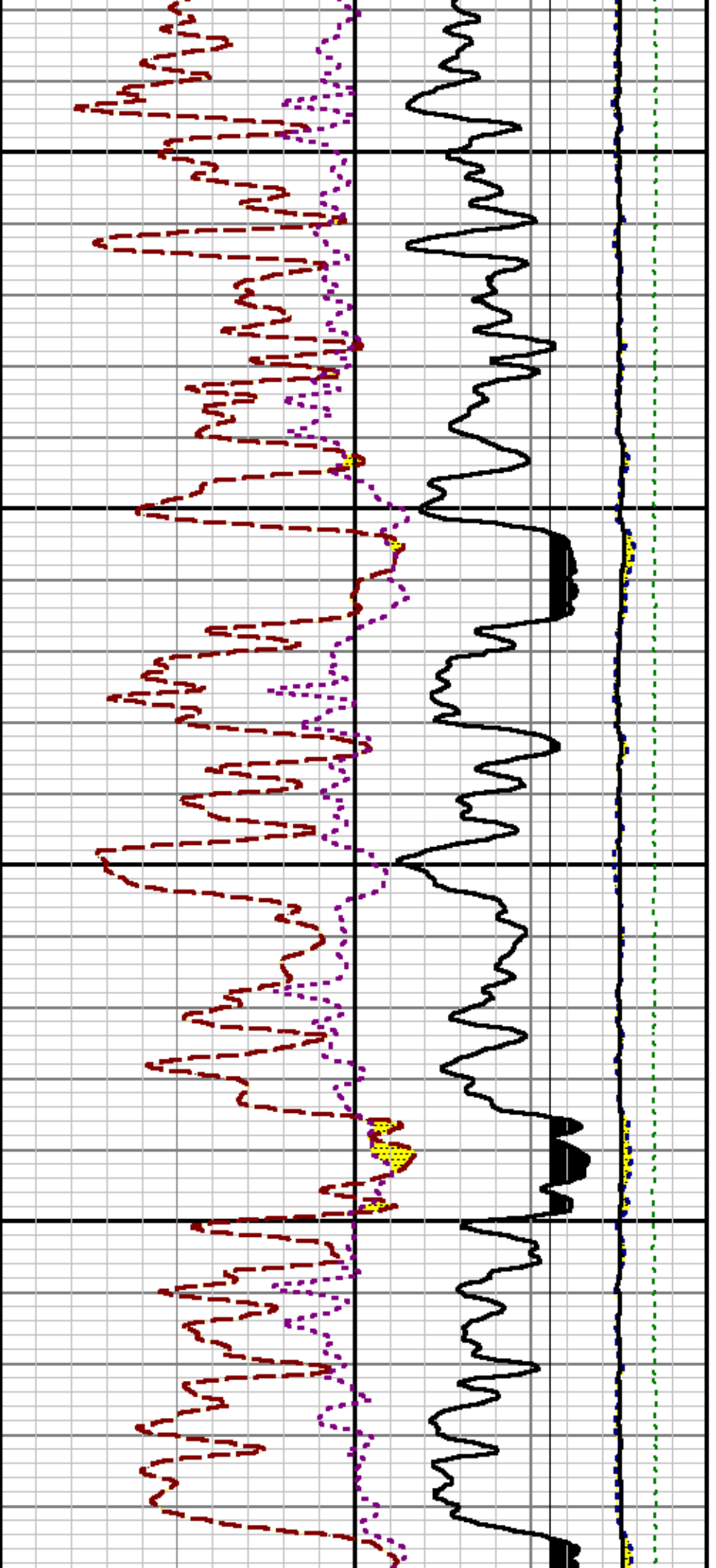




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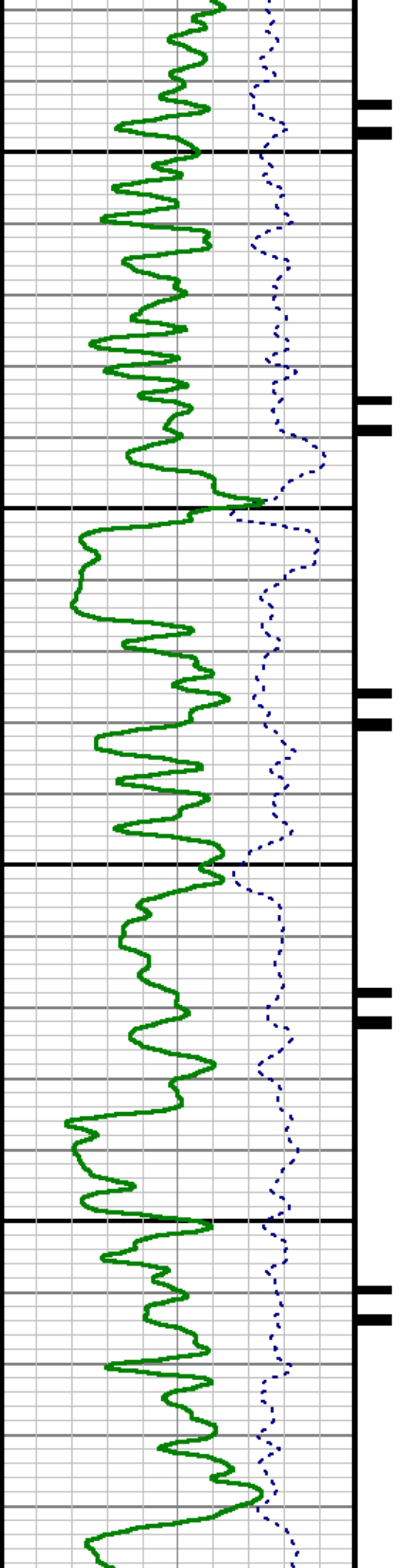
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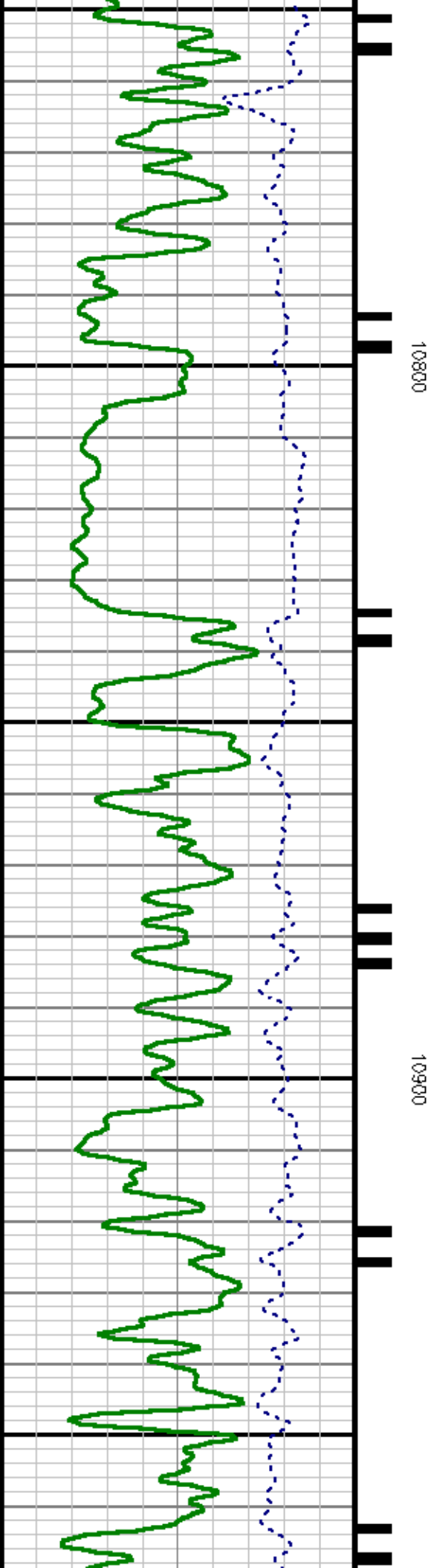
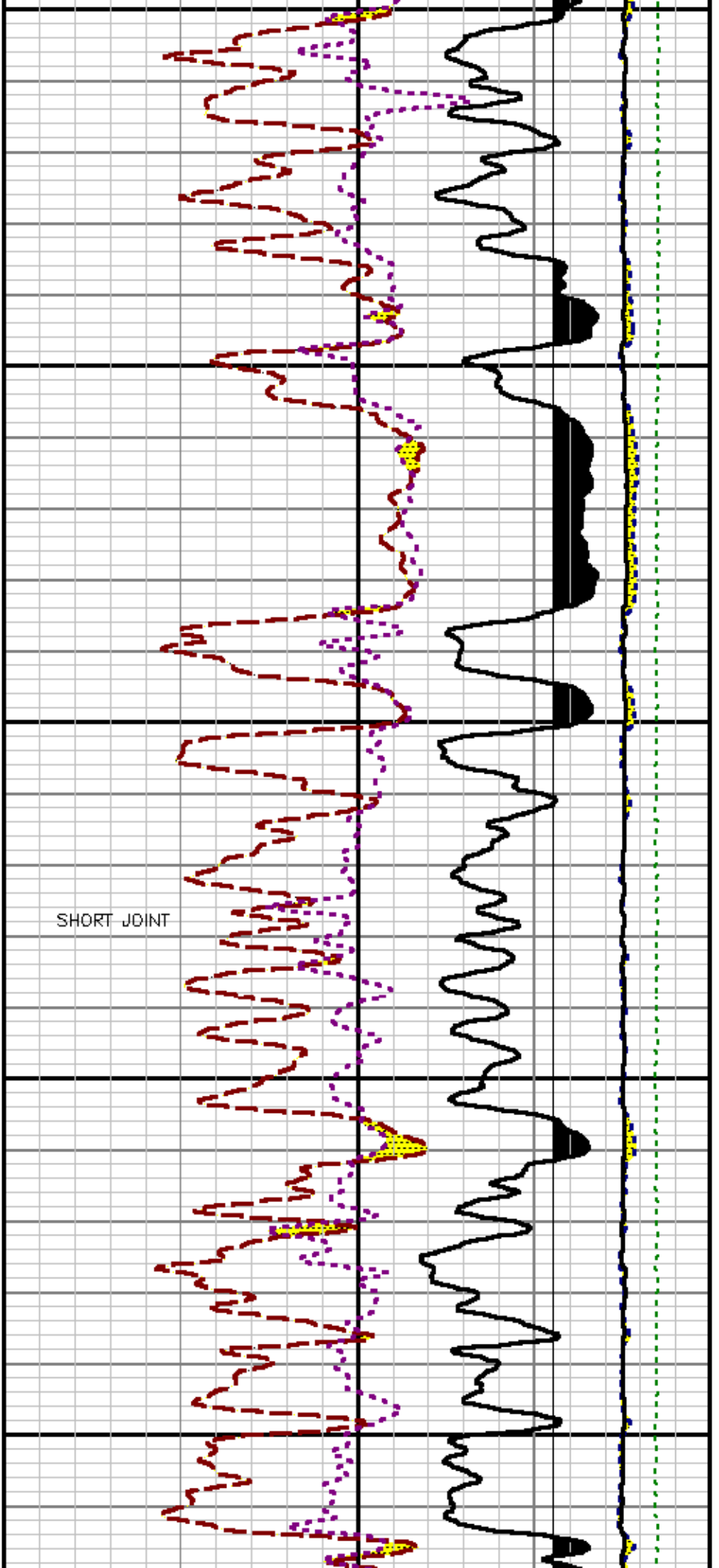


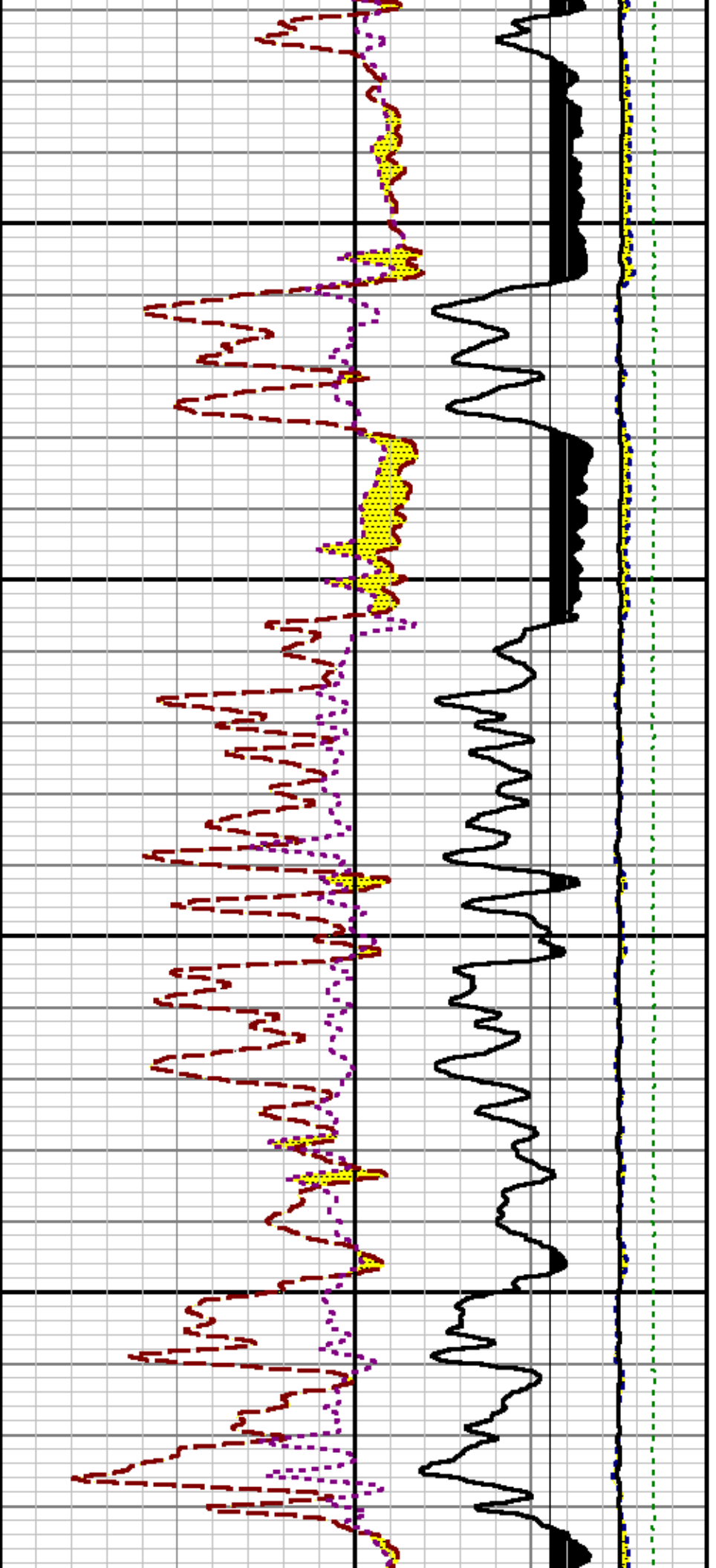


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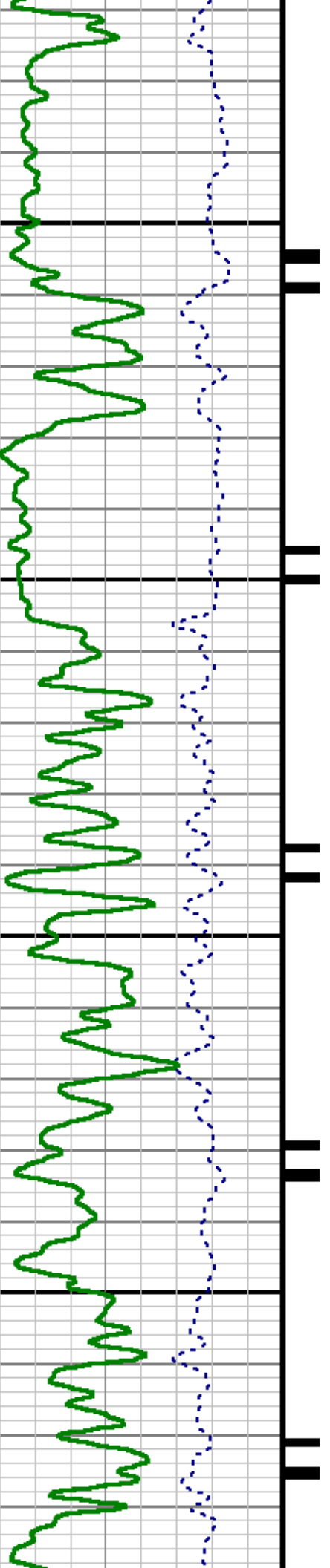


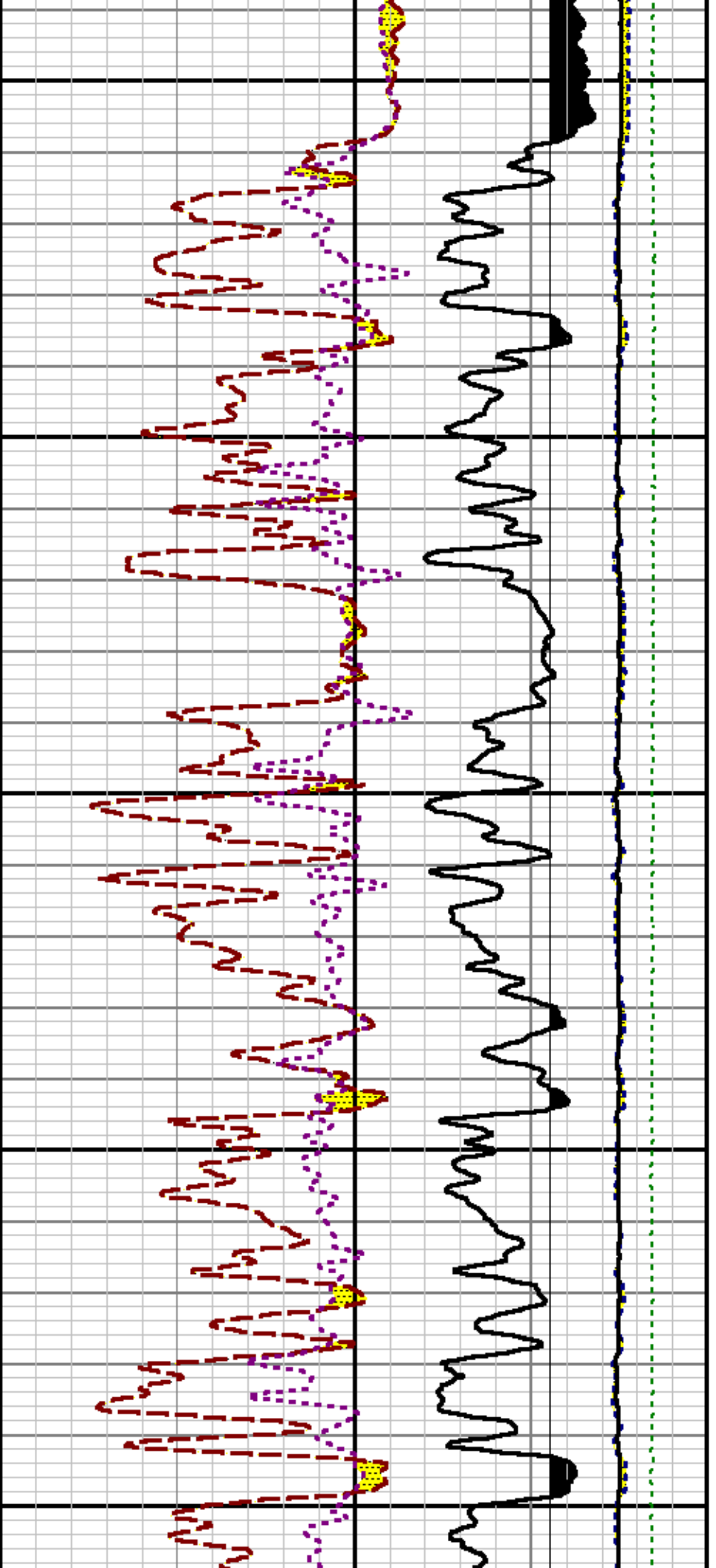




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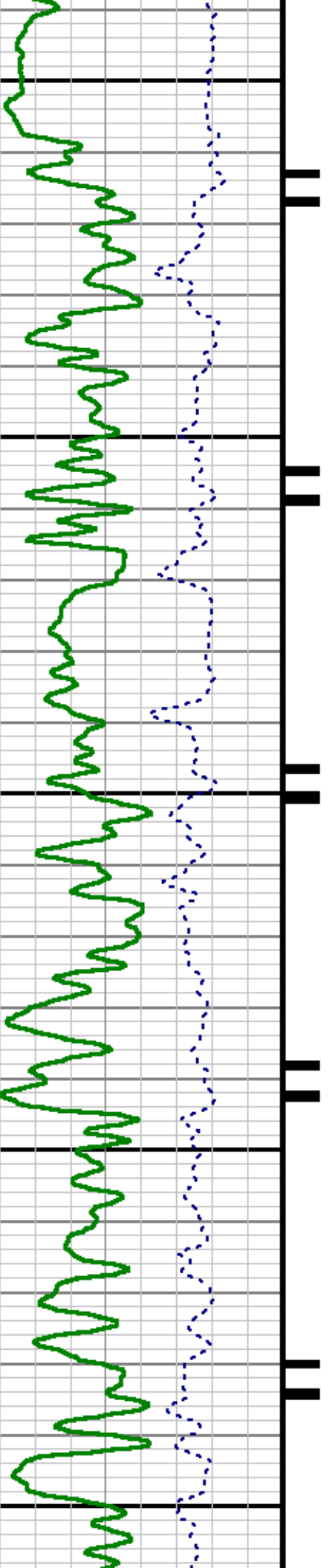


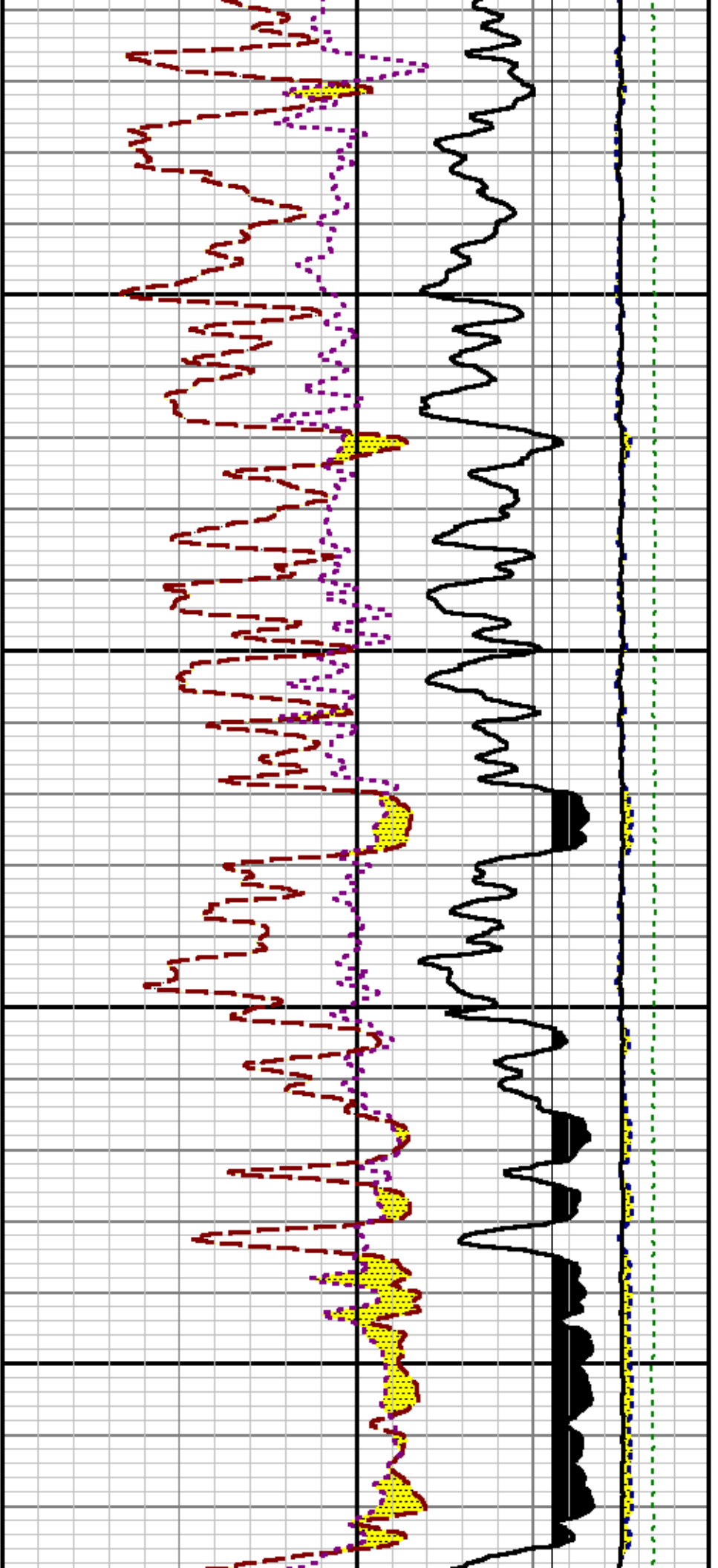


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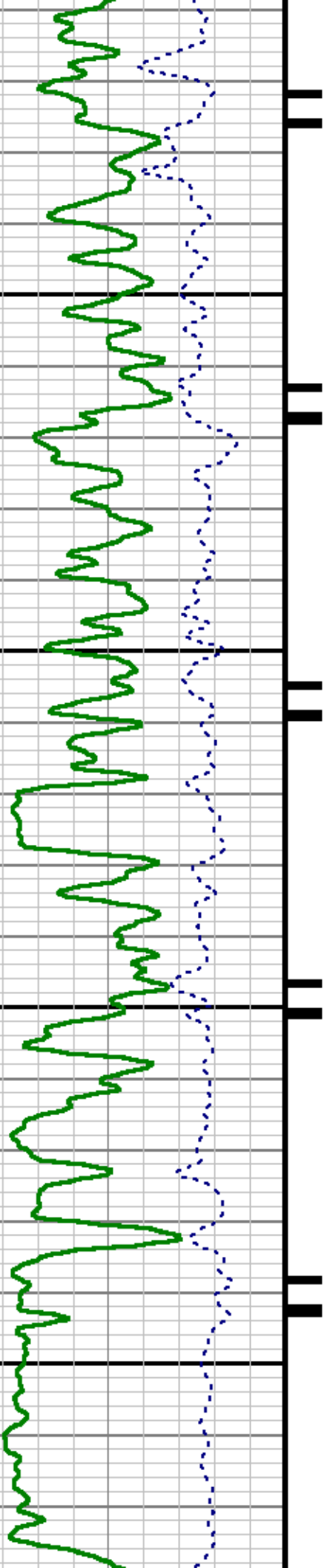
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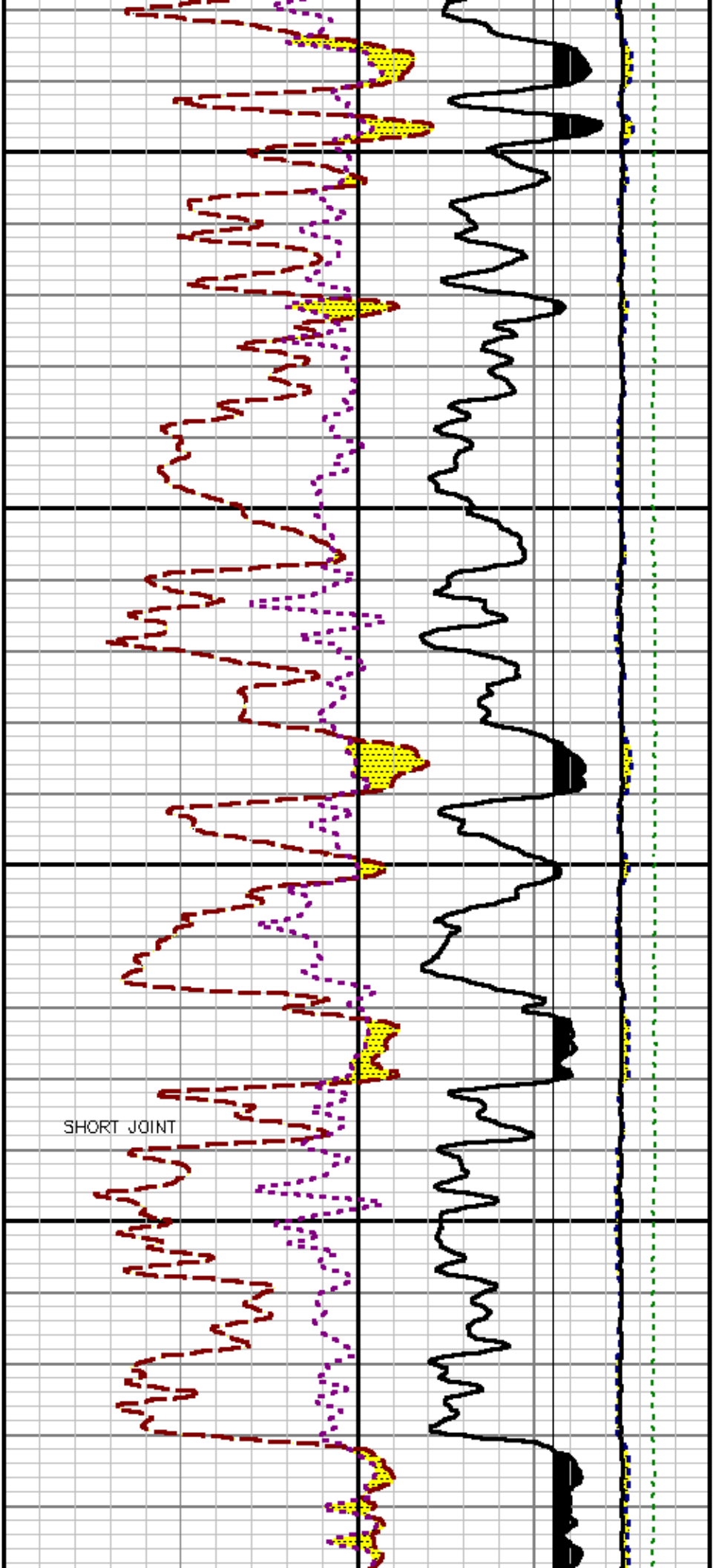




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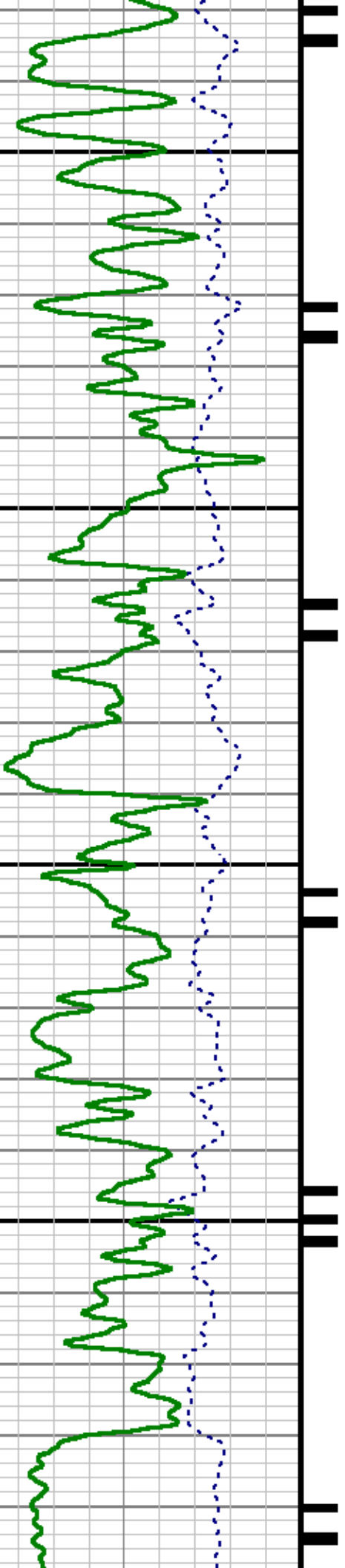


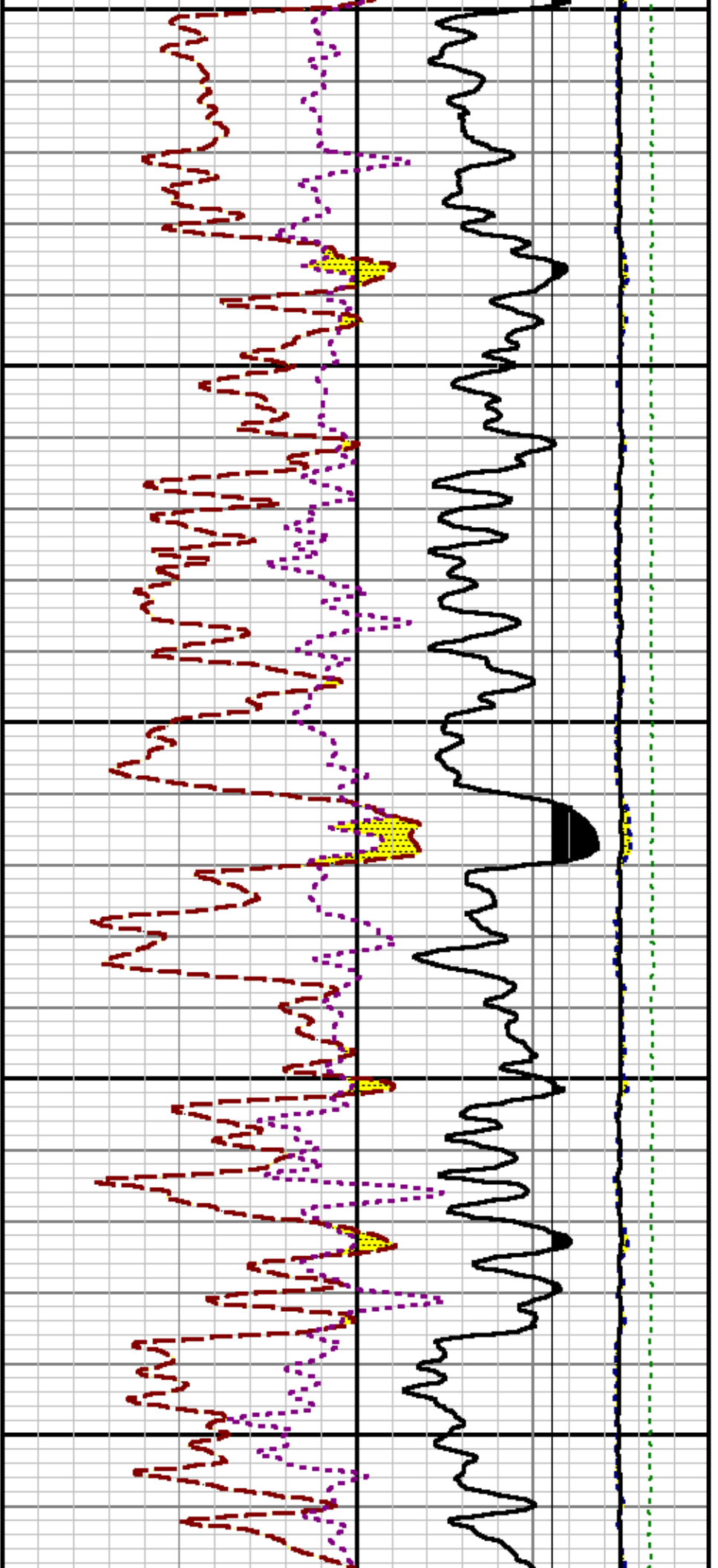


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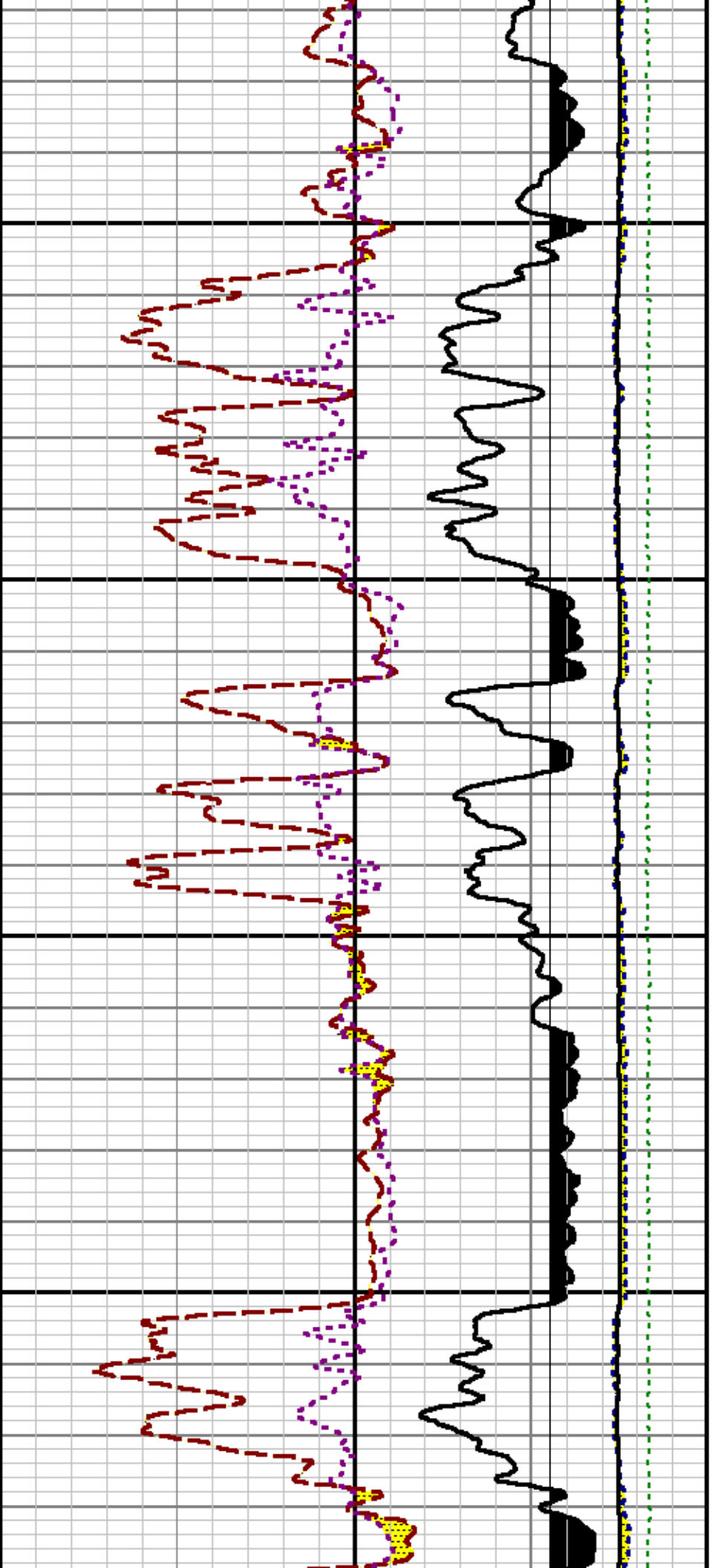
SHORT JOINT





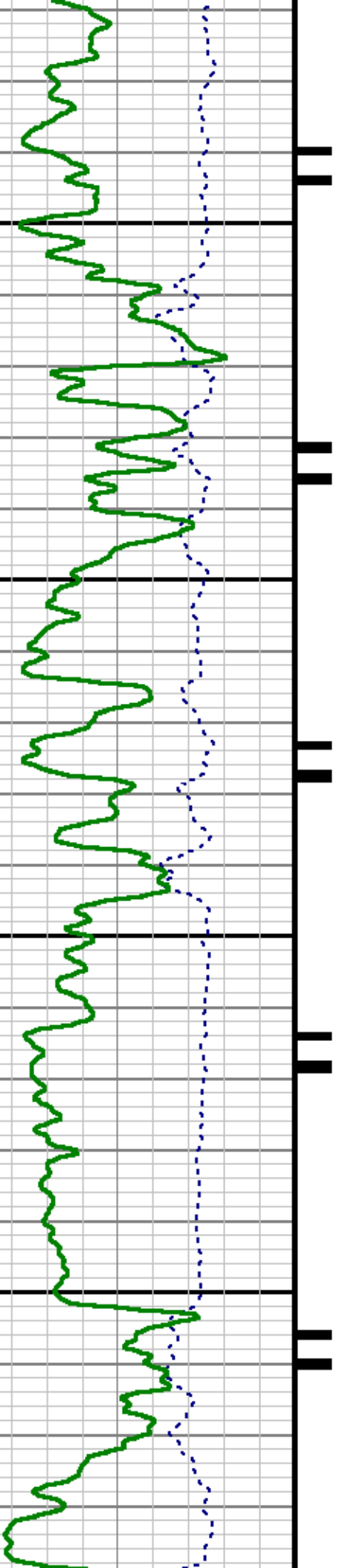
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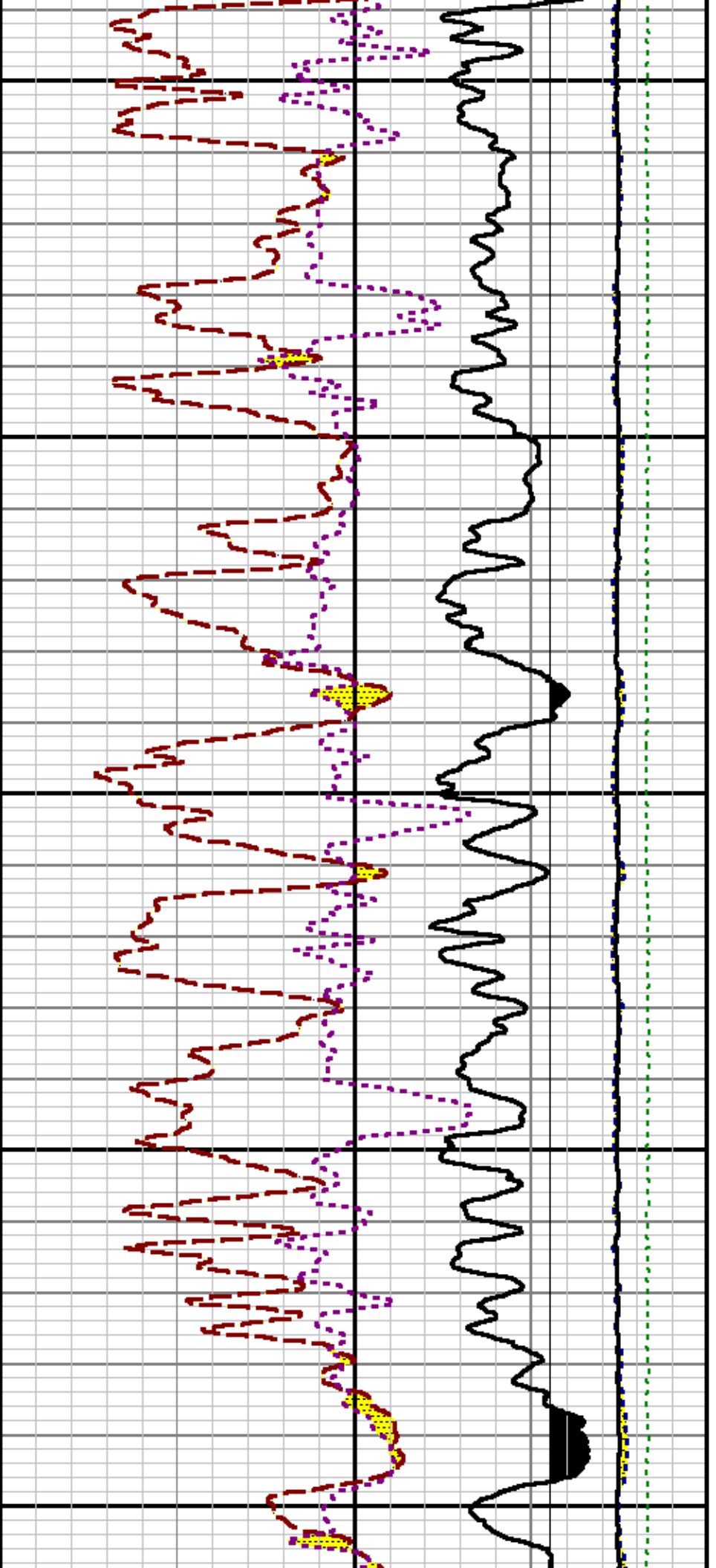
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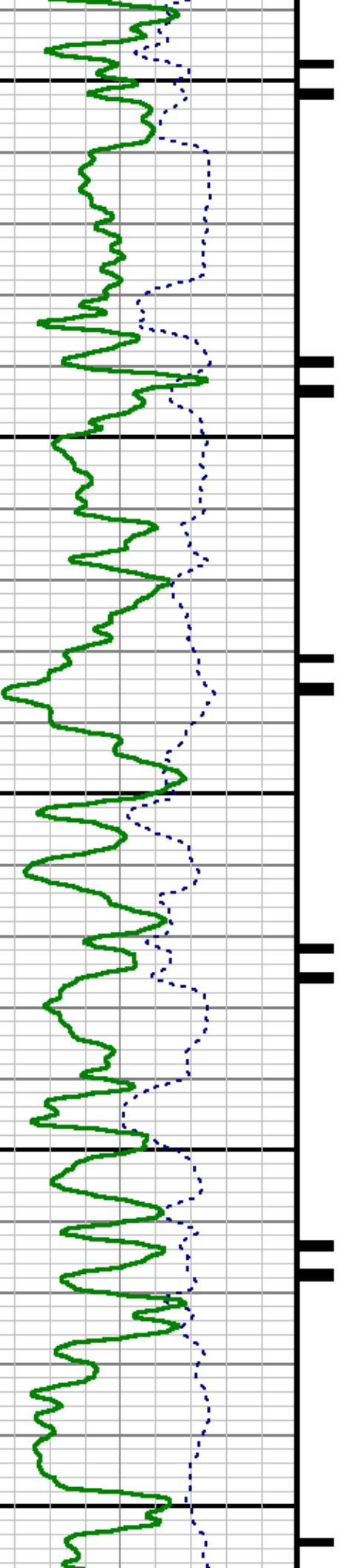


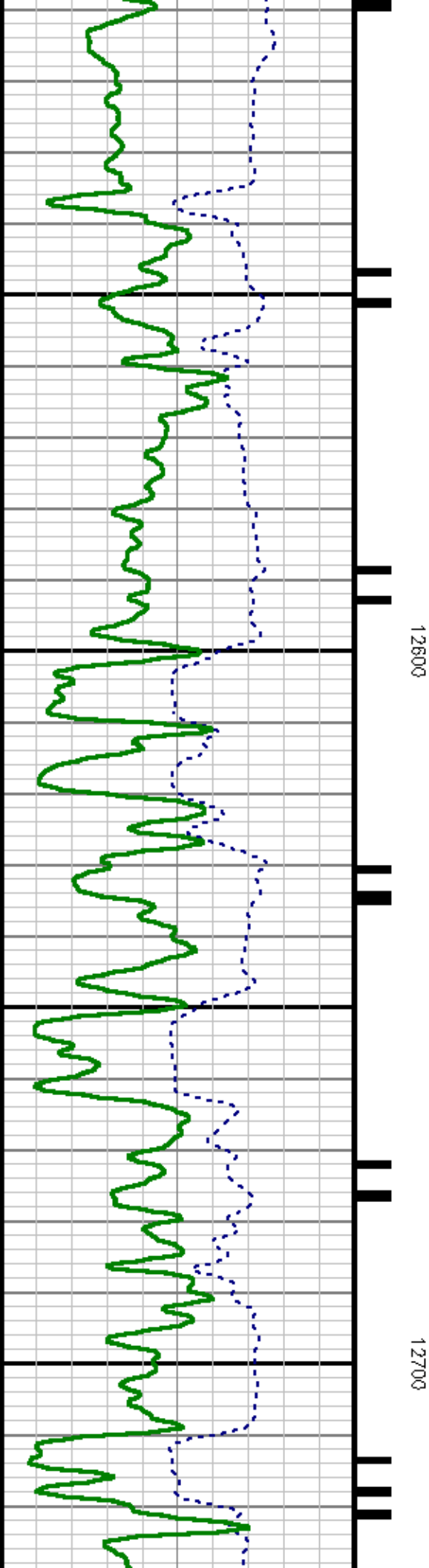
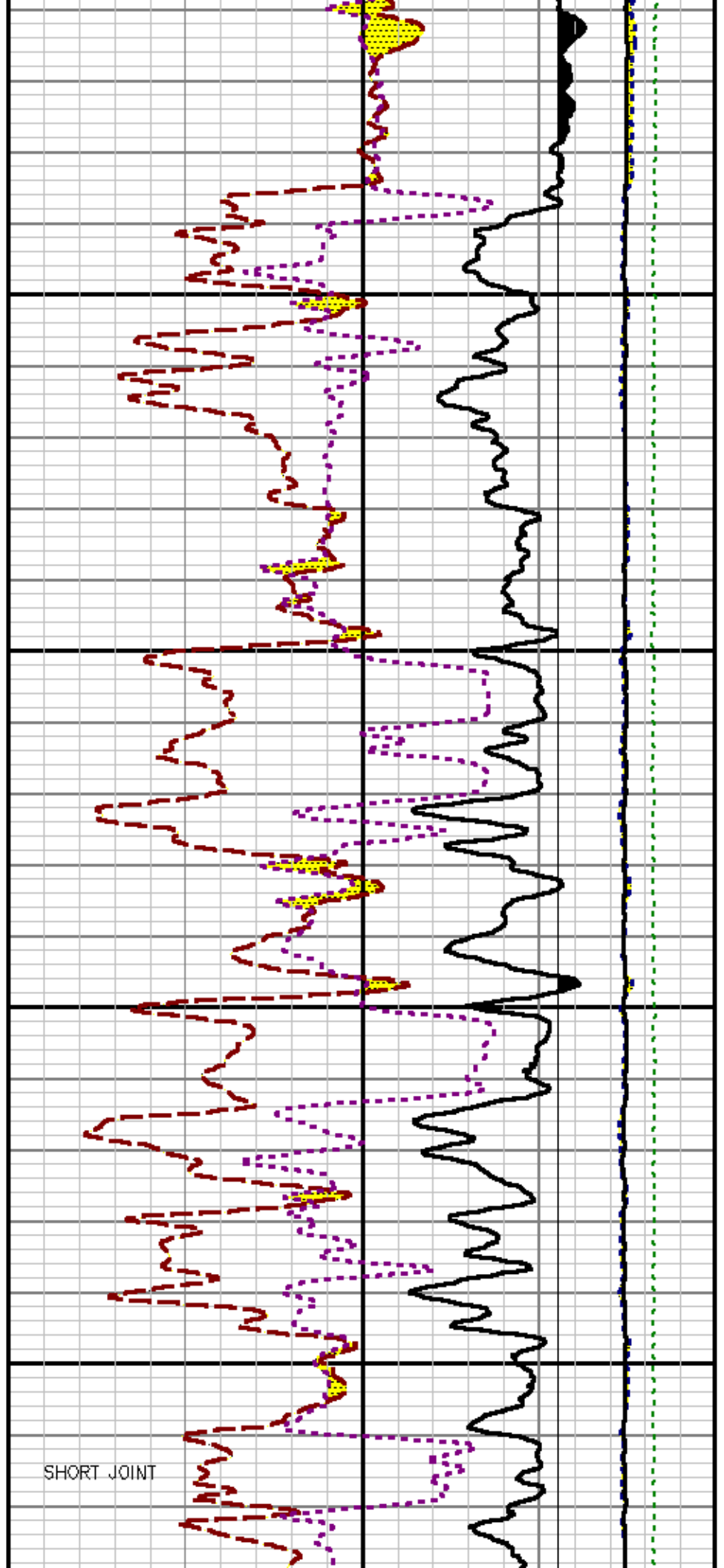


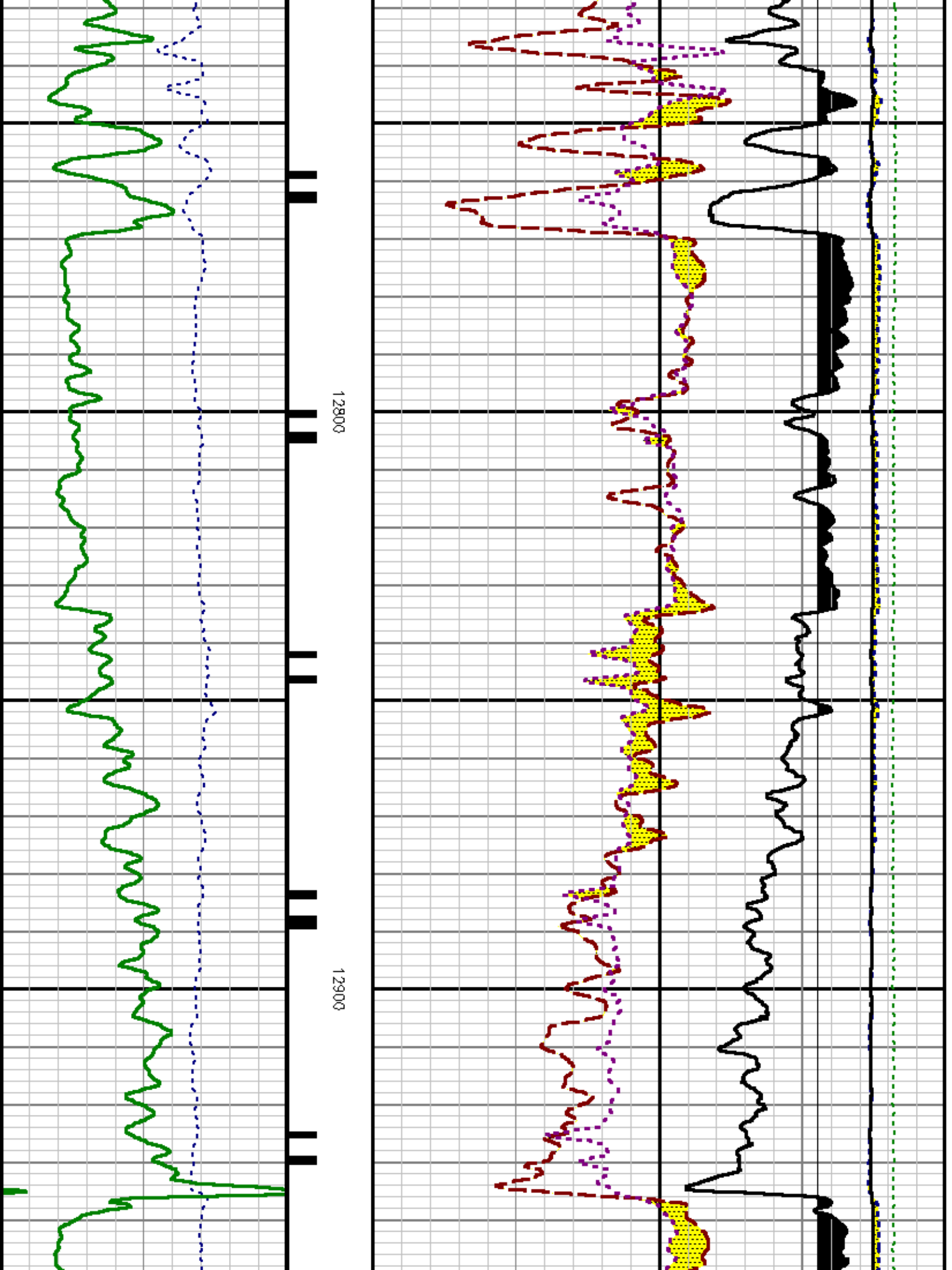
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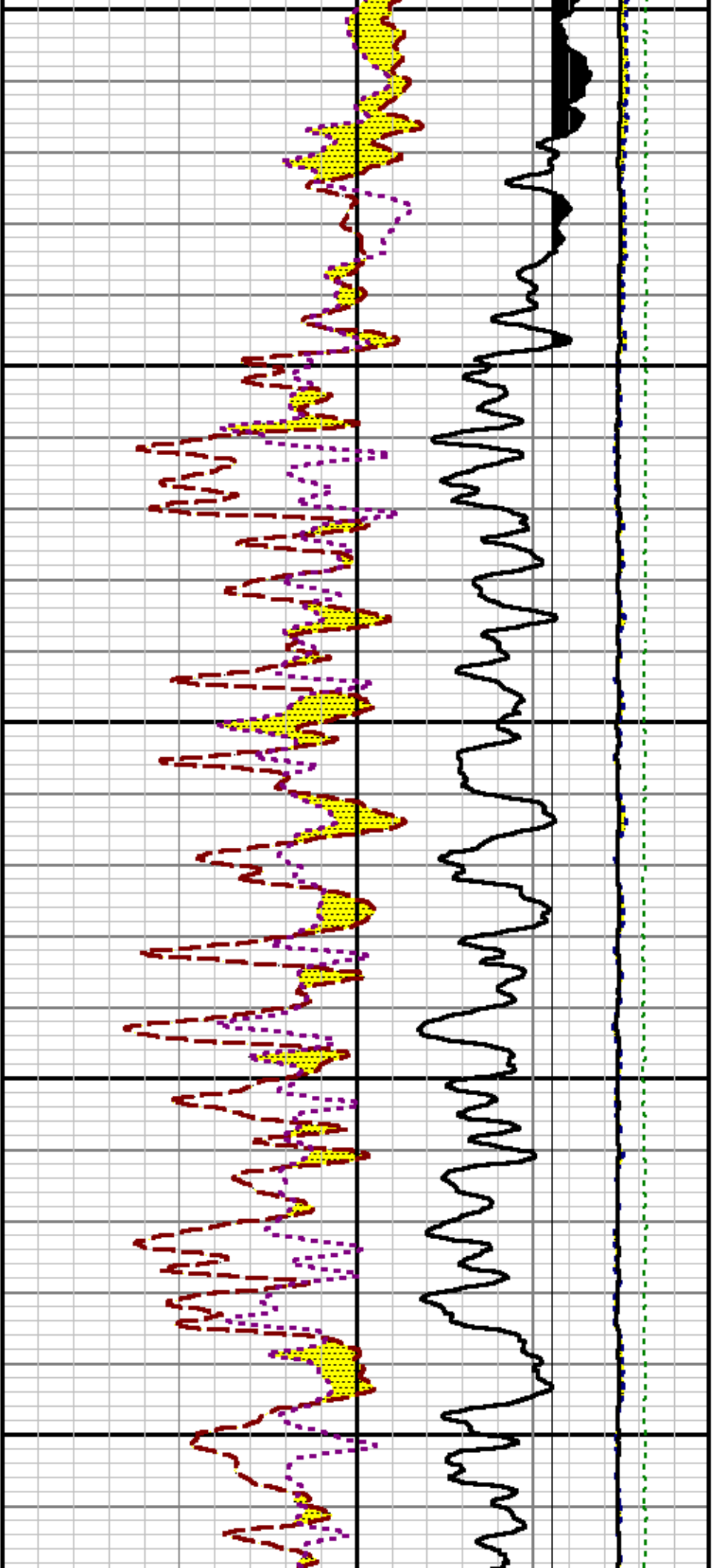
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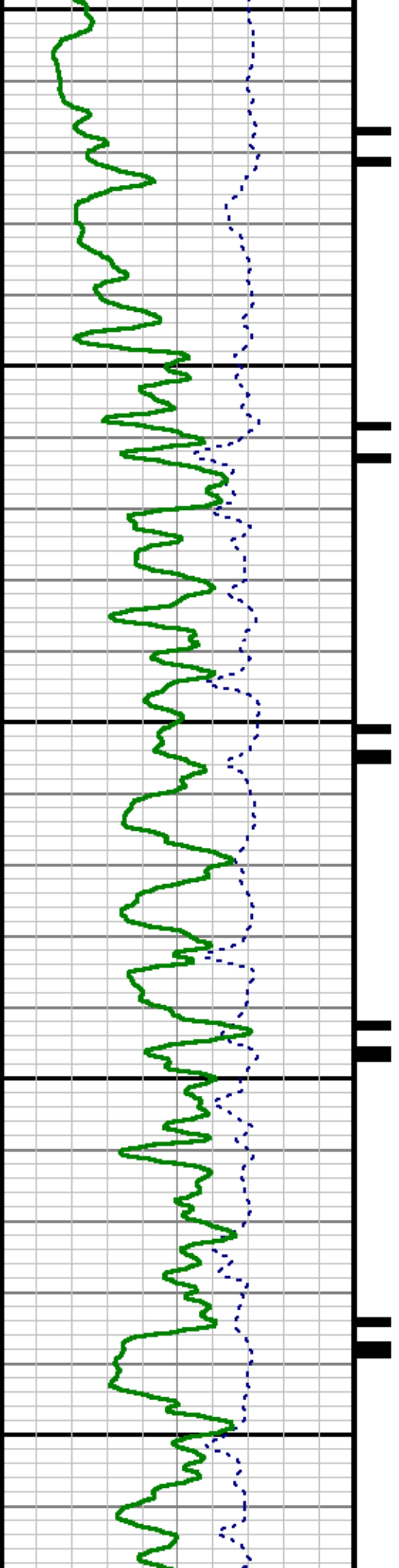


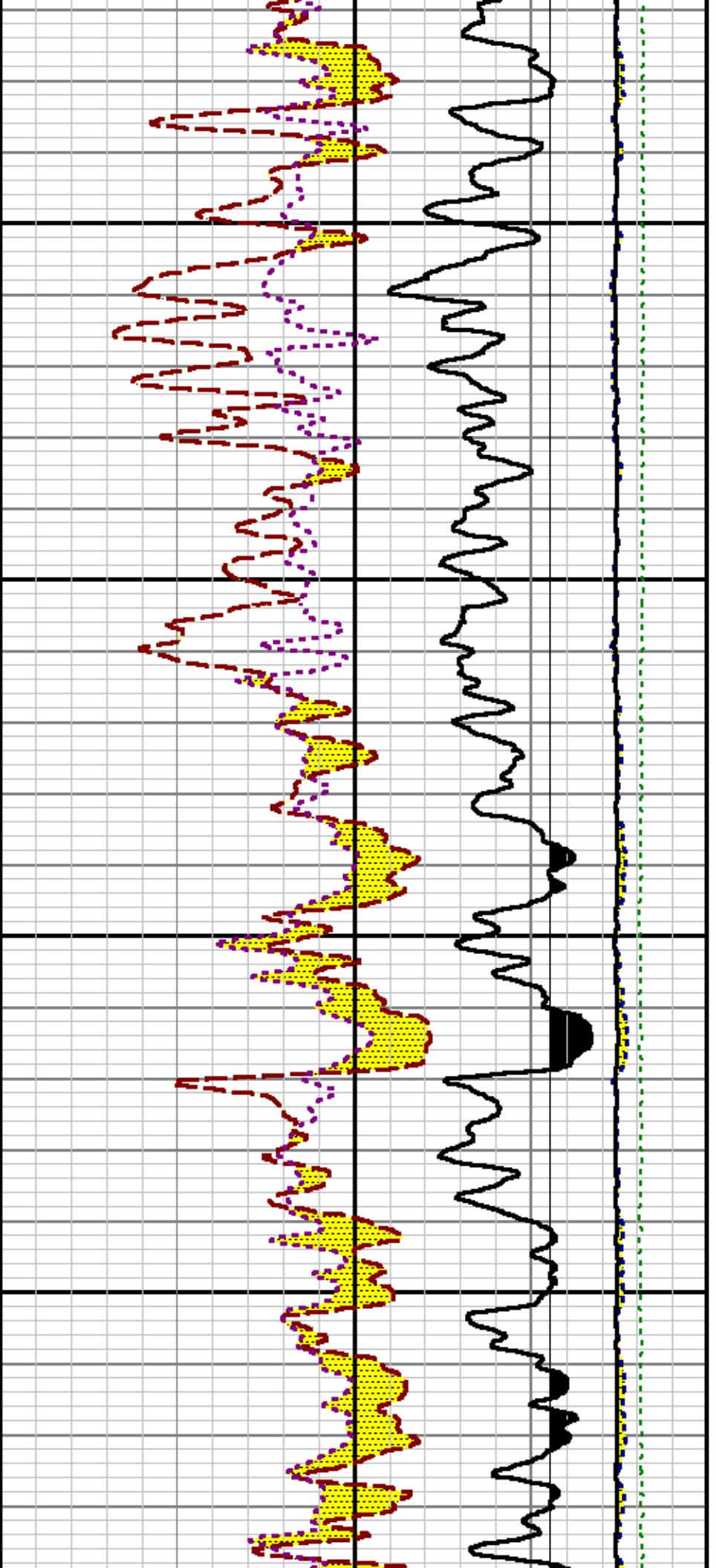




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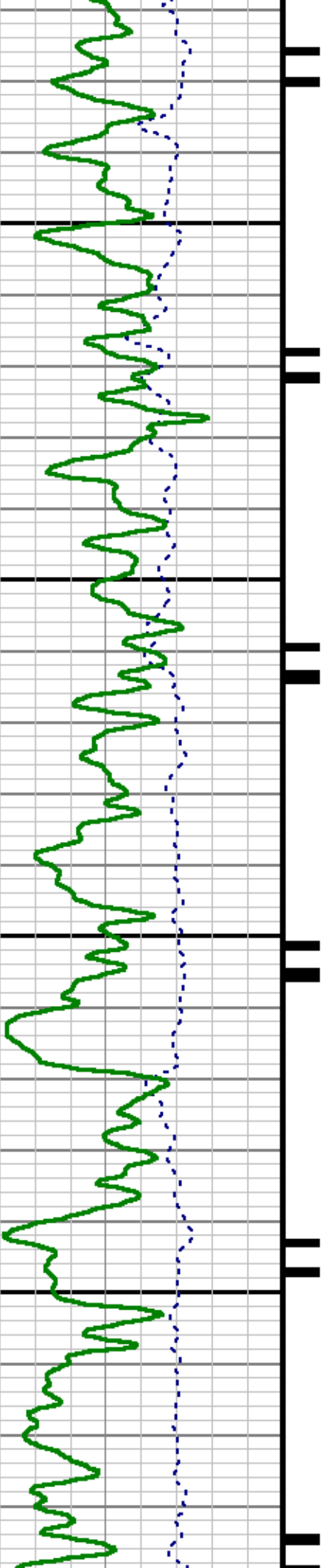
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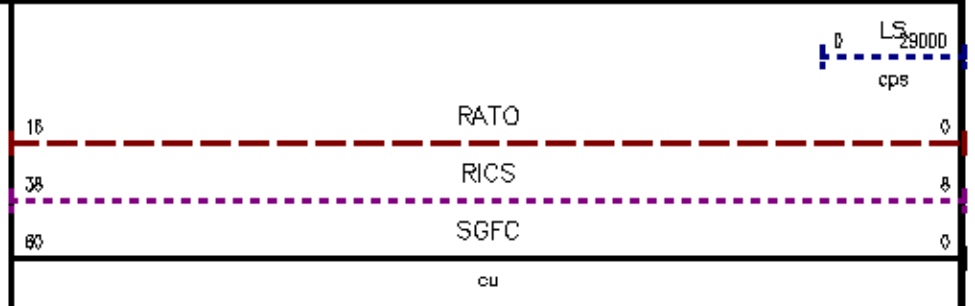
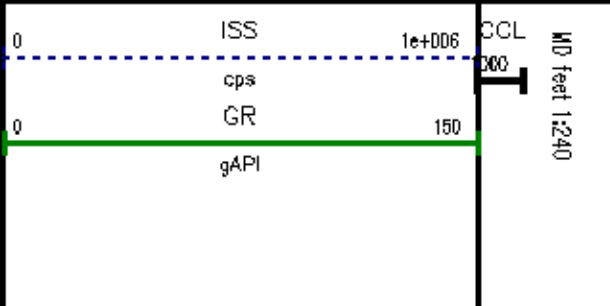
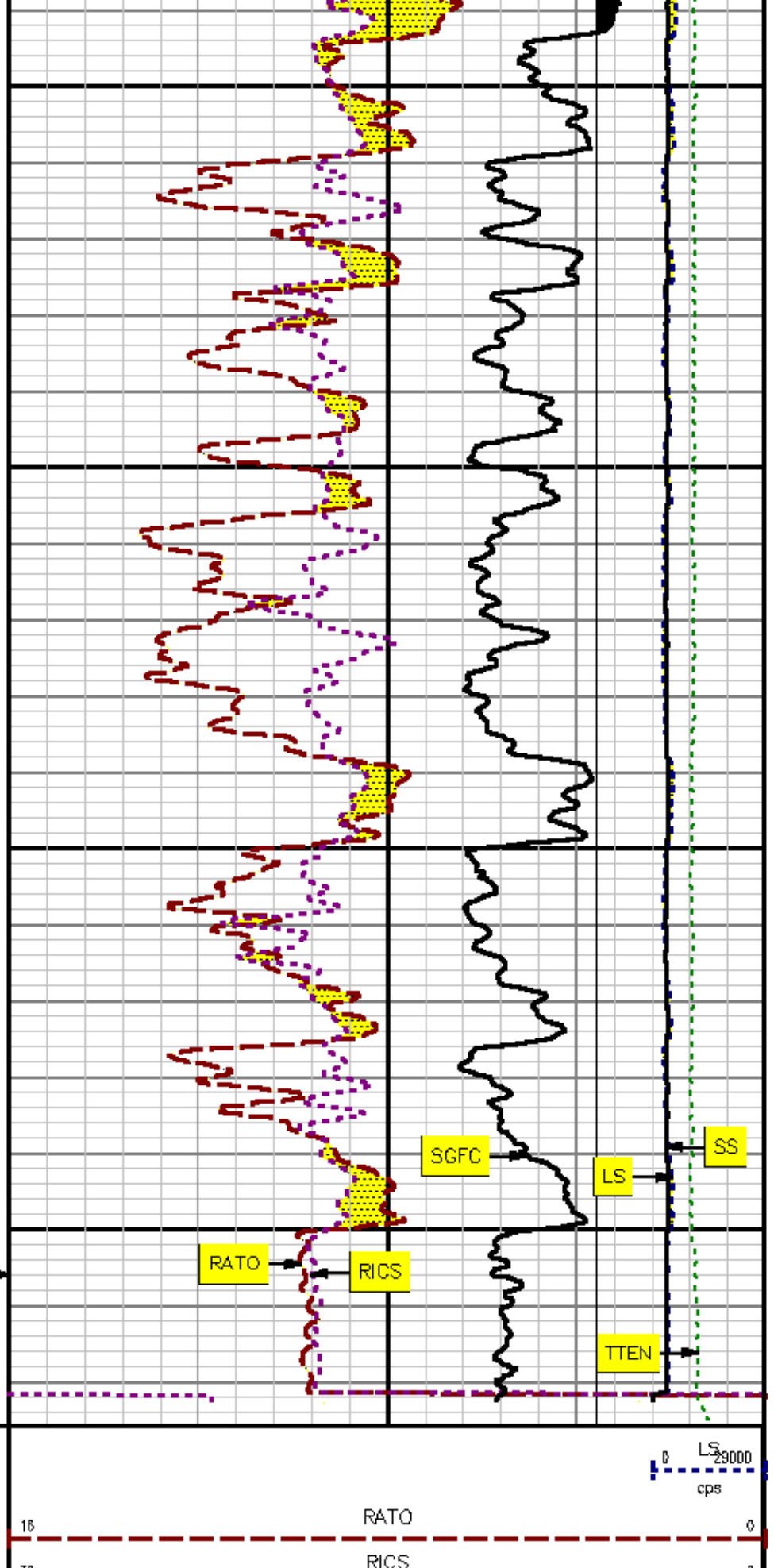
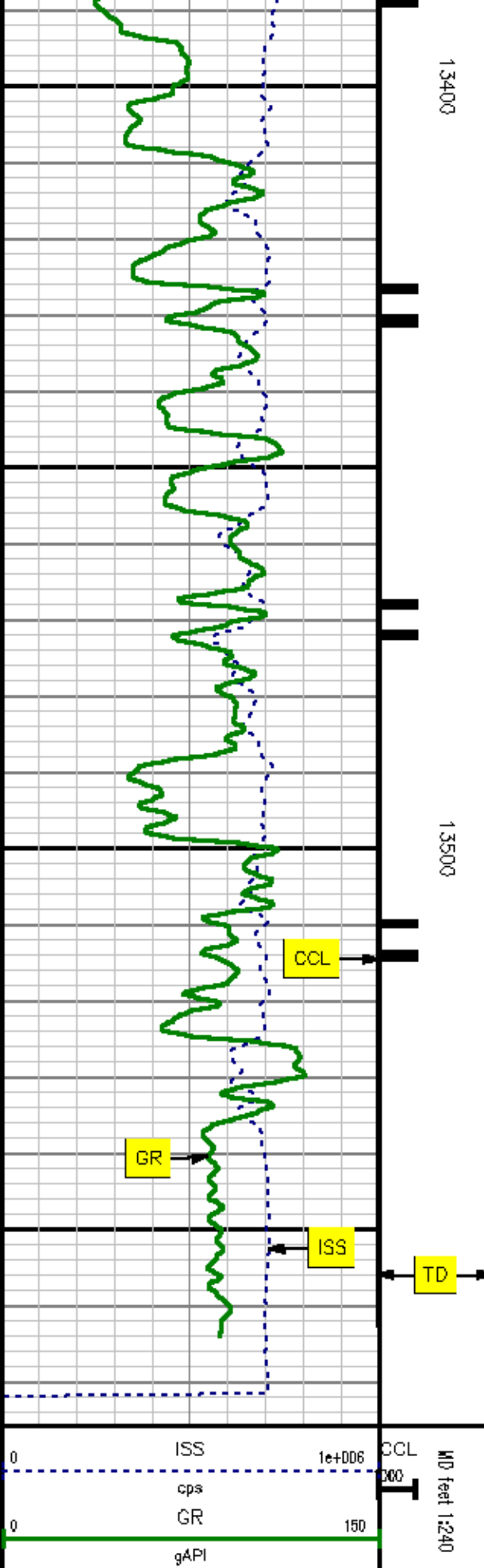


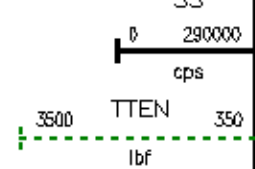


13200

13300







REPEAT SECTION

SPL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
PNC Porosity	Borehole	Cased		13012.000	13574.810
PNC Porosity	Borehole Size	7.875	inch	13012.000	13574.810
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DEPTH OFFSETS (for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
8248EA	-15.320	FLTM					
8248EA	-13.320	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	RATQ23
		RICXC	RIN13C	RIN23	RIN23C	SD3D	SG3D
		SGB3	SGF3	WDTH3	CXSR	IXSR	XSR
		RICXR					
		HVC2Q0	SEQ2	AMA2	AMB2	AMF2	AML2
		BKL	CHF2	CLS	CPT2Q0	CPT2Q2	CPT2Q3
8281XA	-0.250	CPT2Q4	ET2	ILS	LS	MCS2	MCS2Q0
		QCAL2	RGN2	RICL	RONE23	RTWO23	SDA2
		SDL2	SGA2	SGB2	SGF2	SGK2	SGL2
		STA2	ASPEC2	ILSC	ILSN	WDTH2	RICLC
		GLSR	ILSR	LSR	RICLR		
		GPRS	HVC1Q0	WV	SEQ	SEQ1	AMA1

AMB1	AME1	AMF1	AML1	BKS	CHF1
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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
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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 : MIXED

Plotted by : PlotMgr, v5.4.5D4

Company : EXXONMOBIL PRODUCTION COMPANY

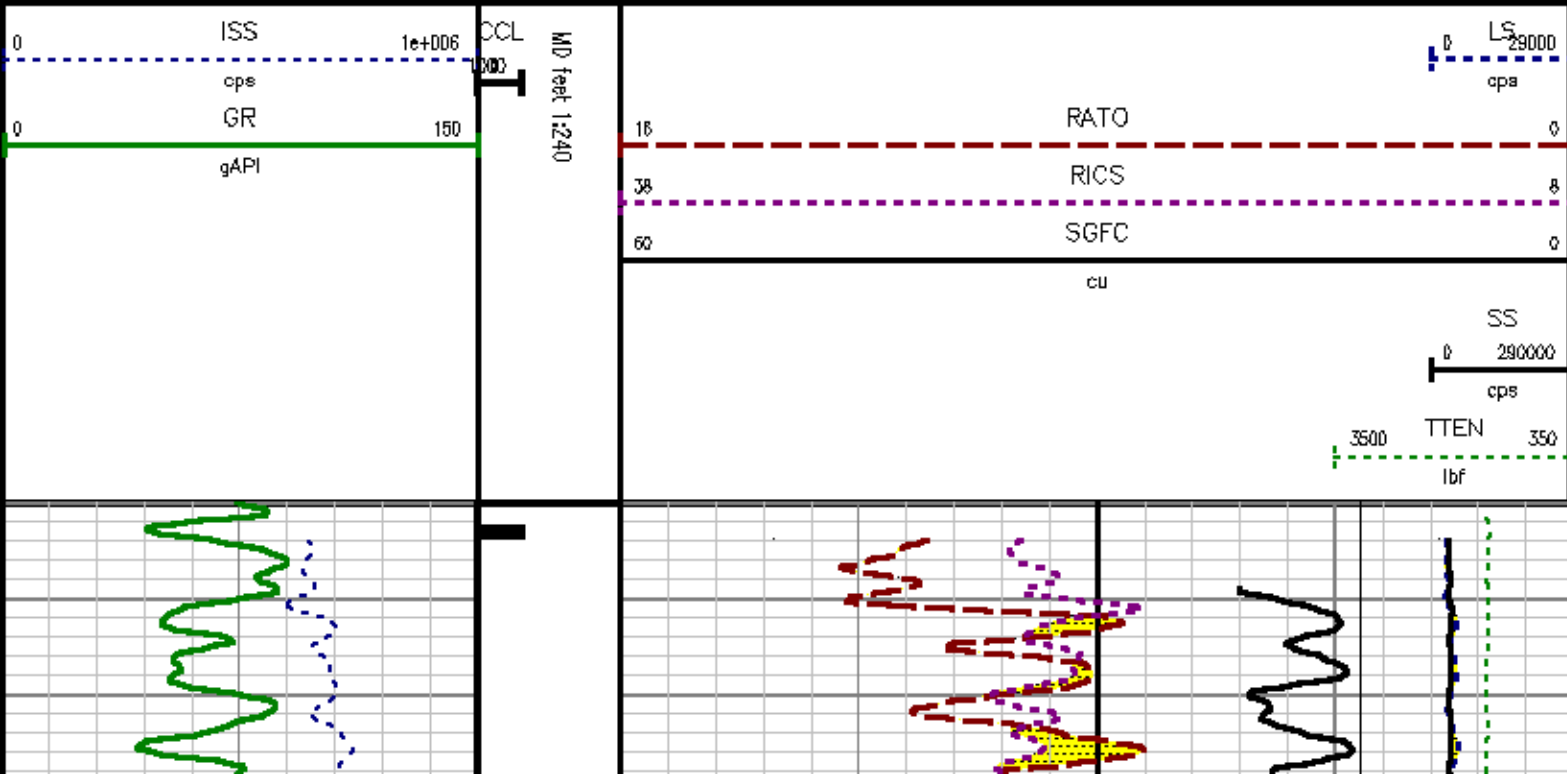
Well : PCU 296-5A5

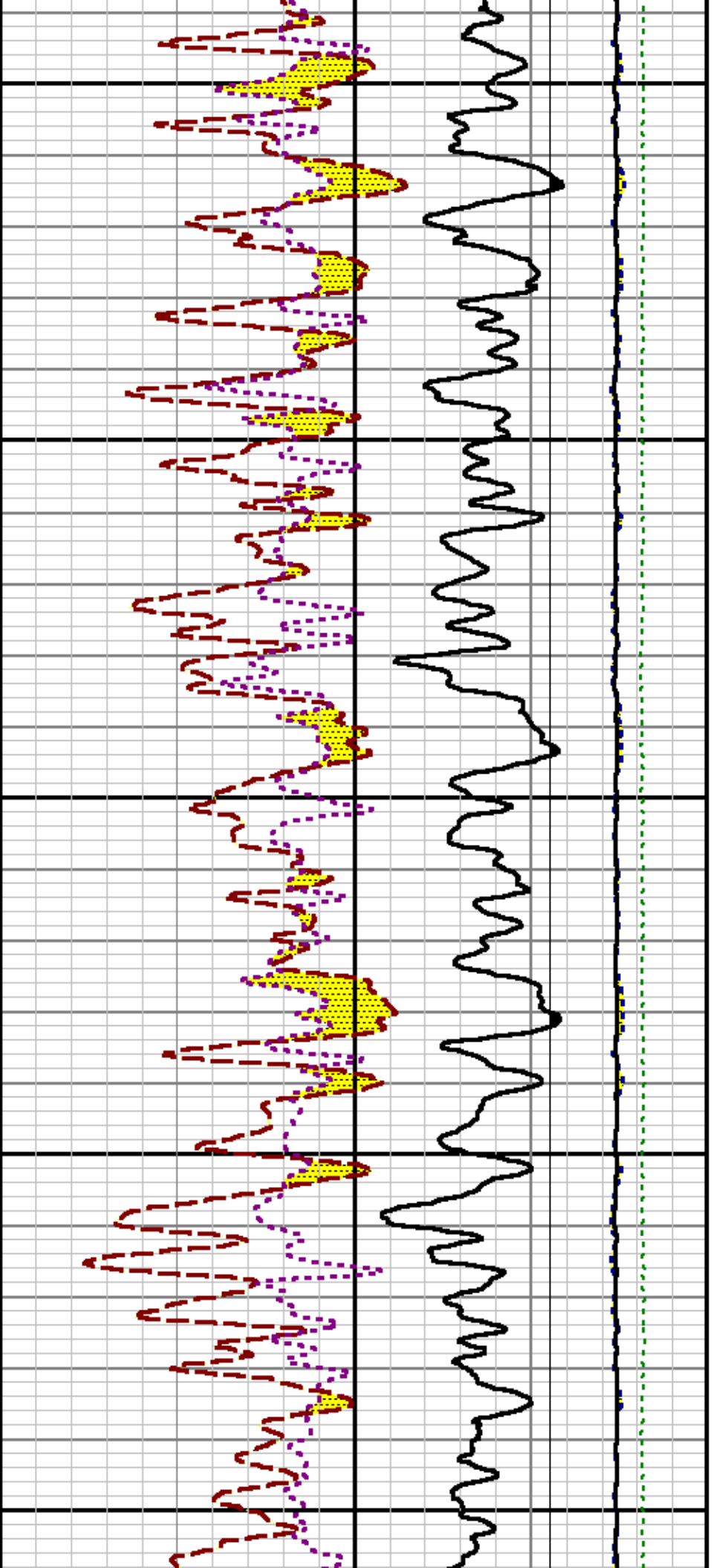
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Mode : PlotMgr 5.4.5D4

Interval : 13D10.00 - 13575.00 feet UP

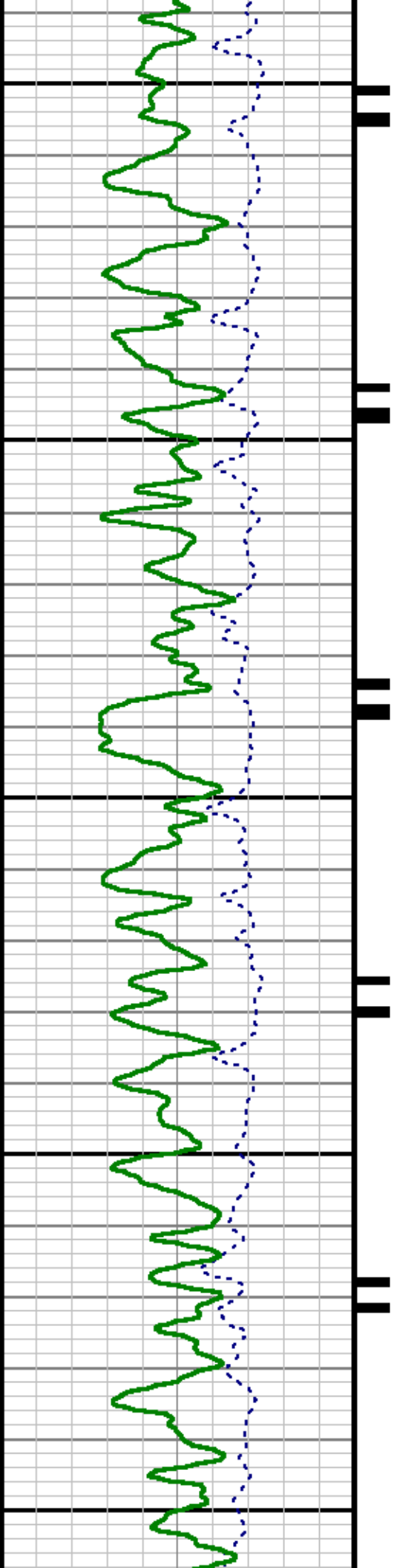
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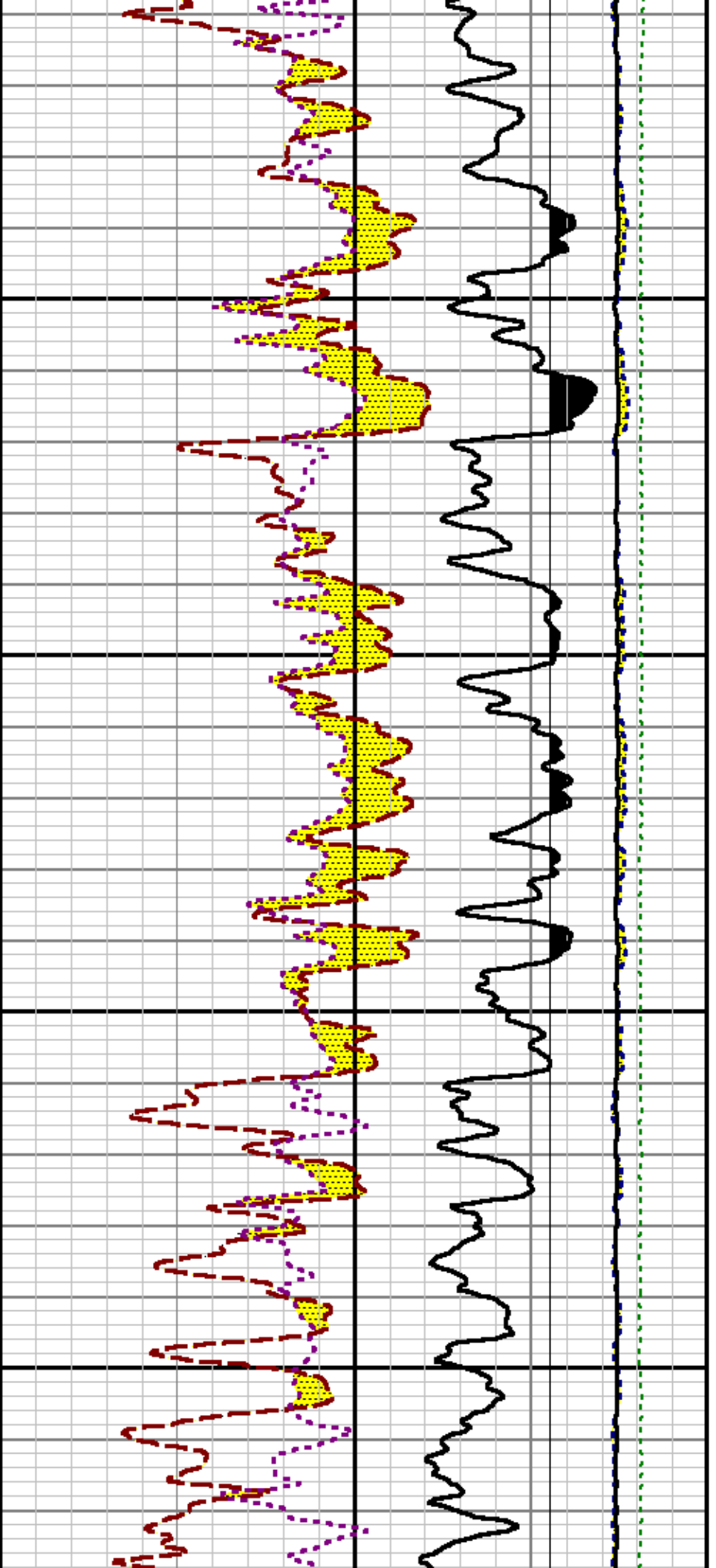




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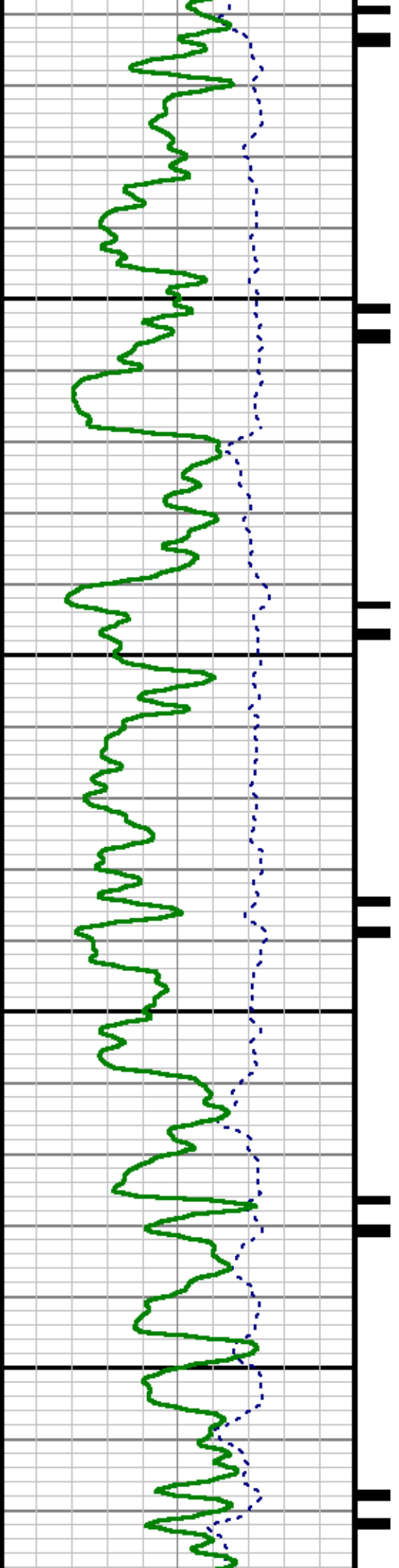
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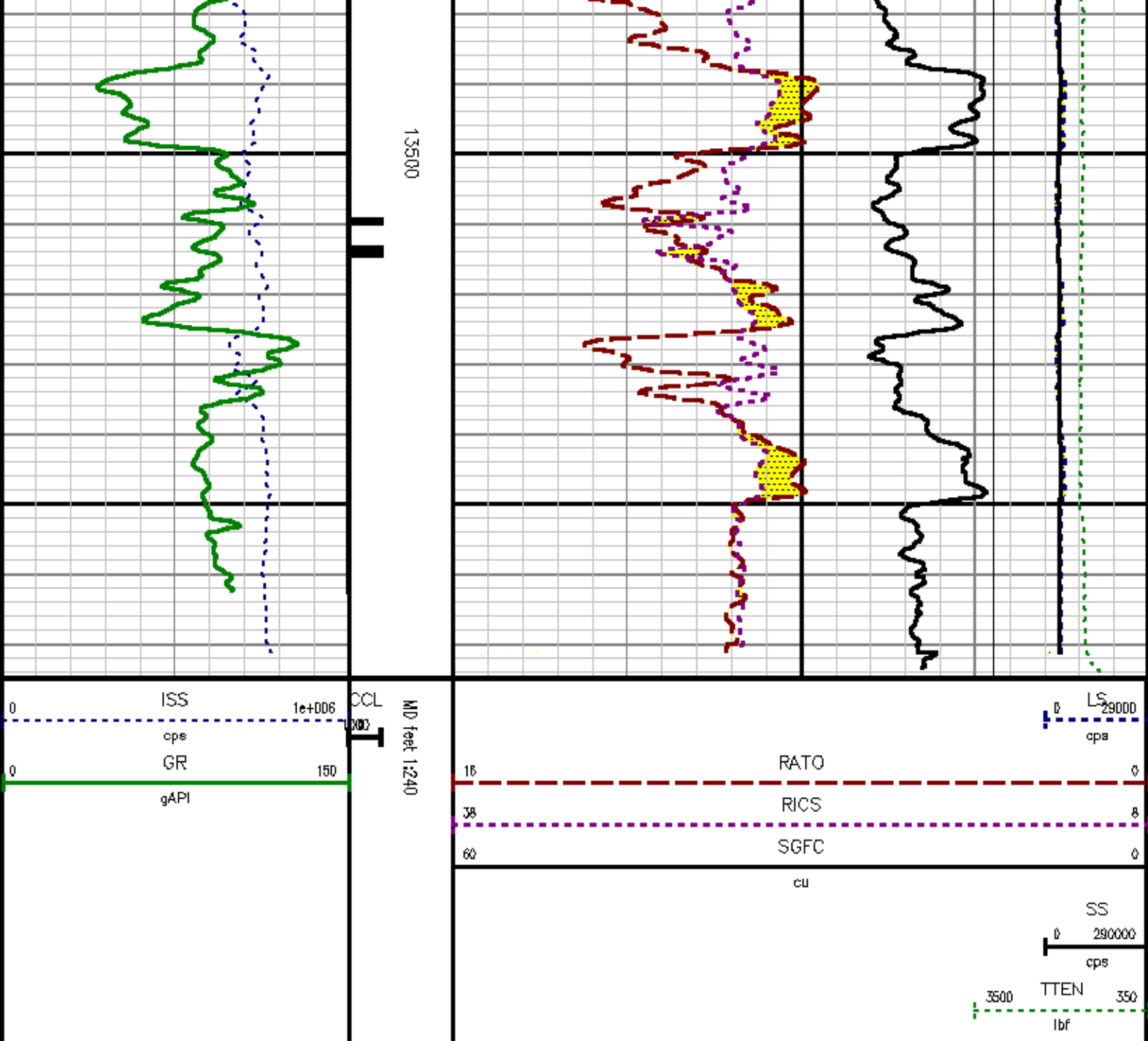




13300

13400





CALIBRATION SUMMARY

GAMMA RAY

DATE/TIME PERFORMED: Fri Mar 11 12:40:22 2011 TOOL SERIES: 8262XA ASSET: 470 SEQ: M1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K DA612	48.49	399.69	0.513	24.85	204.85	180.00

Verification File: C:\cgss\calver\GR\470M1.VP

PRIMARY VERIFICATION

DATE/TIME PERFORMED: Fri Mar 11 12:44:06 2011 TOOL SERIES: 8262XA ASSET: 470 SEQ: M1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K DA612	51.86	395.87	0.513	26.58	202.89	176.32

PNC

Calibration File: C:\cgss\calver\PNC\753F1.cal

PNC 3D CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Feb 25 10:10:31 2011 TOOL SERIES: 8281XA ASSET: 753 SEQ: F1

Calibrator #

SHOP SHOP

Source #

8281AA 11774306

	ISS	Mtr Vlt (V)	SS Gain	LS Gain	XLS Gain	EA Temp (degF)	Sync Delay (usec)	RCAL
Raw Data	802990	126.00	2190.00	2205.00	2229.00	112.87	15.00	0.9586
Interpolated	1300000	147.80	2183.27	2199.72	2228.59			

	ISS	BKS	BKL	BKX	SGA 1	SDA 1	SGA 2	SDA 2
Raw Data	802990	7725.86	1226.12	249.74	25.85	0.14	24.41	0.28
					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	802990	165624.95	26051.07	94498.43	33553.55	8562.56	57304.31	13766.81
Fit Quality %		1.28	1.21	1.08	1.10	1.29	0.98	1.32

	ISS	RBOR	RIN ISS/ILS	RIN13 ISS/IXS	RICS ISS/CSS	RATO SS/LS	RTWO SS2/LS	RONE CSS/CLS
Raw Data	802990	1.44	4.85	30.82	14.01	11.04	3.92	4.16
		1.42 1.45	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 %		0.07	0.23	0.15	0.13	0.14	0.12	0.17
Reduced	1387696	1.44	4.84	30.79	14.00	11.01	3.91	4.16
		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

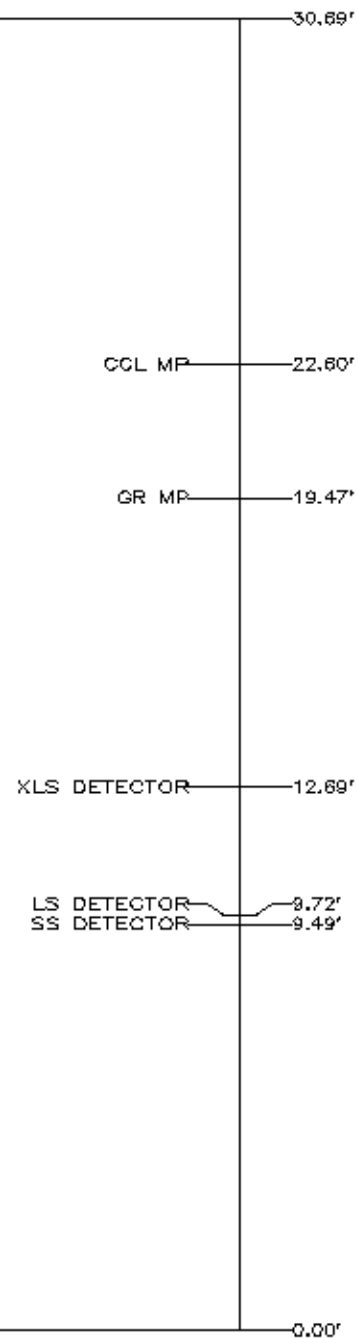
OTA SHORT CABLE HEAD

PCM POWER SUPPLY (B250EA)

TELEMETRY / CCL (B248EA)

GAMMA RAY (B262XA)

RESERVOIR PERFORMANCE MONITOR (B2B1XA)



Total Length: 30.69'
Total Weight: Not Available
Max Diameter: 0' 1.70"



Baker Atlas

CASE

Company	EXXONMOBIL PRODUCTION COMPANY			File No:	CH031814
Well	PCU 296-5A5			API No:	05-103-11244-00
Field	PICEANCE CREEK				
County	RIO BLANCO	State	COLORADO		
Location				Elevations	
N40°W				KB 7326.2 ft	
749' FNL & 551' FNL				DF 7325.2 ft	
				GL 7296 ft	
SEC	5	TWP	25	RGE	98W