



Baker Atlas

RESERVOIR
PERFORMANCE
MONITOR

File No: CH039997
 Company: EXXONMOBIL PRODUCTION COMPANY
 Well: PCU 298-5A1
 Field: PICEANCE CREEK
 County: RIO BLANCO
 State: COLORADO
 API No. 06103112480000

Location: SML 609' PNL & 561' PNL
 SEC: 5 TWP: 25 RGE: 98W
 Other Services: BOND

Permanent Datum: G.L. Elevation 8308 ft
 Log Measured From: K.B. 30.2 ft Above P. D.
 Drill Measured From: KELLY BISHING
 Elevations: KB 7398.2 ft, DF 7398.2 ft, GL 7308 ft

Date	23-JULY-2011	
Run	ONE	
Service Order	575379	
Depth Driller	14179 ft	
Depth Logger	14088 ft	
Bottom Logged Interval	14088 ft	
Top Logged Interval	8220 ft	
Time Started	06:00	
Time Finished	16:00	
Operator Rig Time	10 hrs	
Type of Fluid in Hole	WATER	
Fluid Density	N/A	
Fluid Salinity	N/A	
Fluid Level	FULL	
Logged Cement Top	N/A	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	N/A	
Nominal Logging Speed	10 rpm	
Maximum Recorded Temperature	N/A	
Reference Log	BAKER ATLAS/BKMD	
Reference Log Date	7-23-11	
Equipment	Location	4271
Recorded By	TIM KAUFF	
Witnessed By	MR. JIM PETERSON	

- 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.

Bit Size	From	To
9.875 in		
8.125 in		

Size	Weight	Grade	From	To
7 in	28 lbm/ft	P-110	SURFACE	10094 ft
4.5 in	15.1 lbm/ft	P-110	SURFACE	14179 ft

Remarks
 Log is correlated to the Baker Atlas Bond log dated 7-23-11
 The crew of 4271 Thanks You.

Run	Trip	Tool	Series Number	Serial Number	Position

B281XA

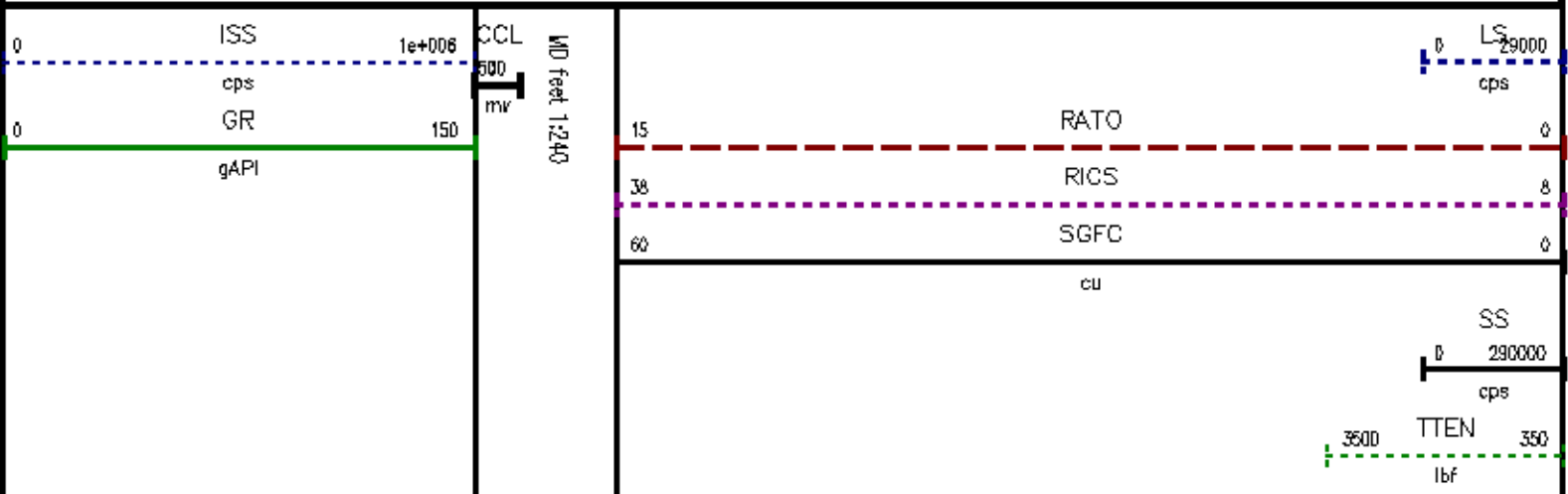
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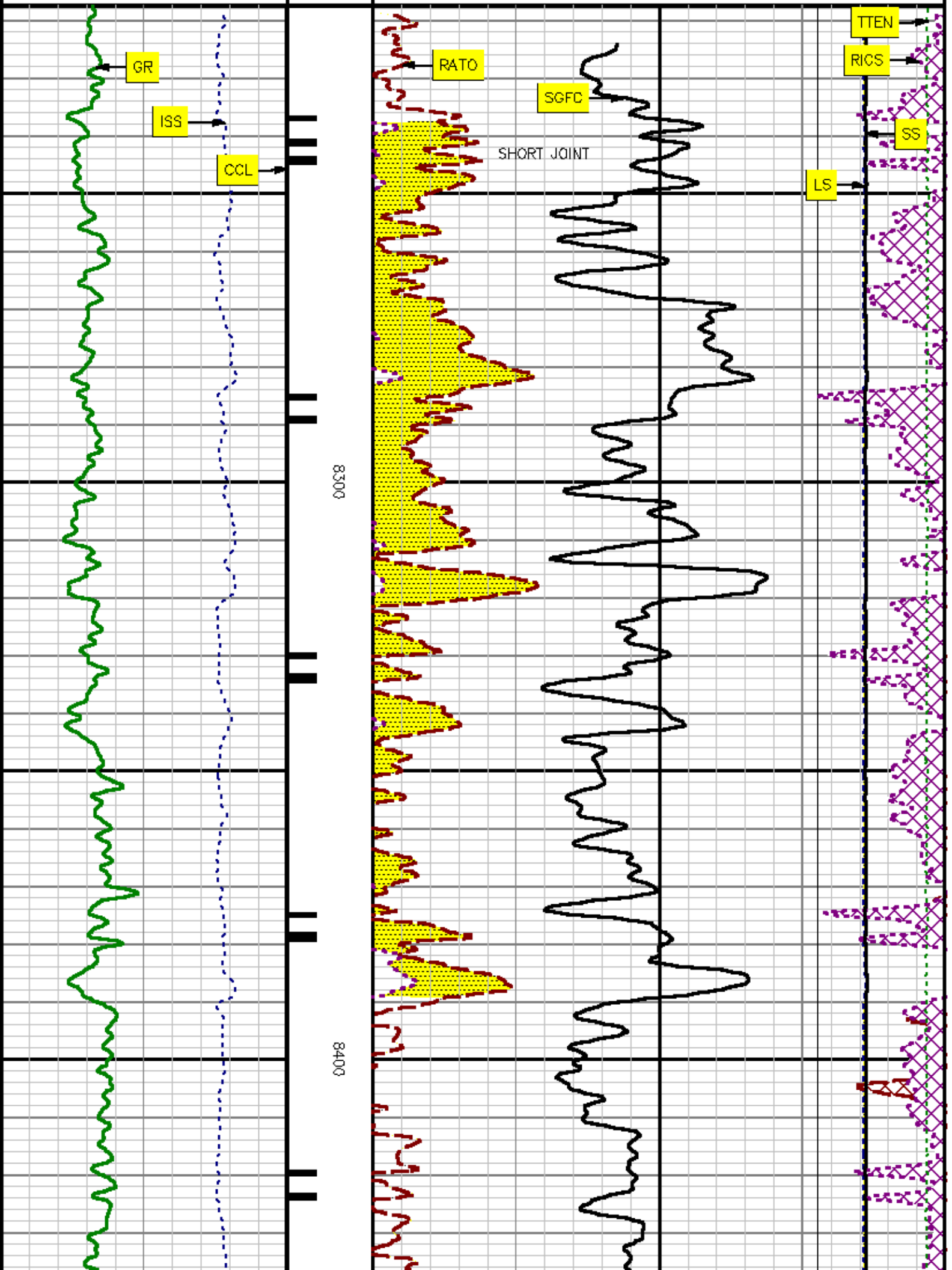
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CPT2Q4	ET2	ILS	LS	MCS2	MCS2Q0
QCAL2	RGN2	RICL	RONE23	RTWQ23	SDA2
SDL2	SGA2	SGB2	SGF2	SGK2	SGL2
STA2	ASPEC2	ILSC	ILSN	WDTH2	RICLC
CLSR	ILSR	LSR	RICLR		
CPRS	HVC100	WV	SEQ	SED1	AMA1
AMB1	AWE1	AMF1	AML1	BKS	CHF1
CSS	COORB	CORF	CPT100	CPT102	CPT102A
CPT102B	CPT102C	CPT103	CPT104	CPT105	ET1
G1	G2	GE1S	GE2S	ISS	MCS1
MCS100	QA1	QCAL1	QM1	RATO	RAT013
RBOR	RGN1	RICS	RIN	RONE	RPOR
RTWO	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		TEN	TTEN		

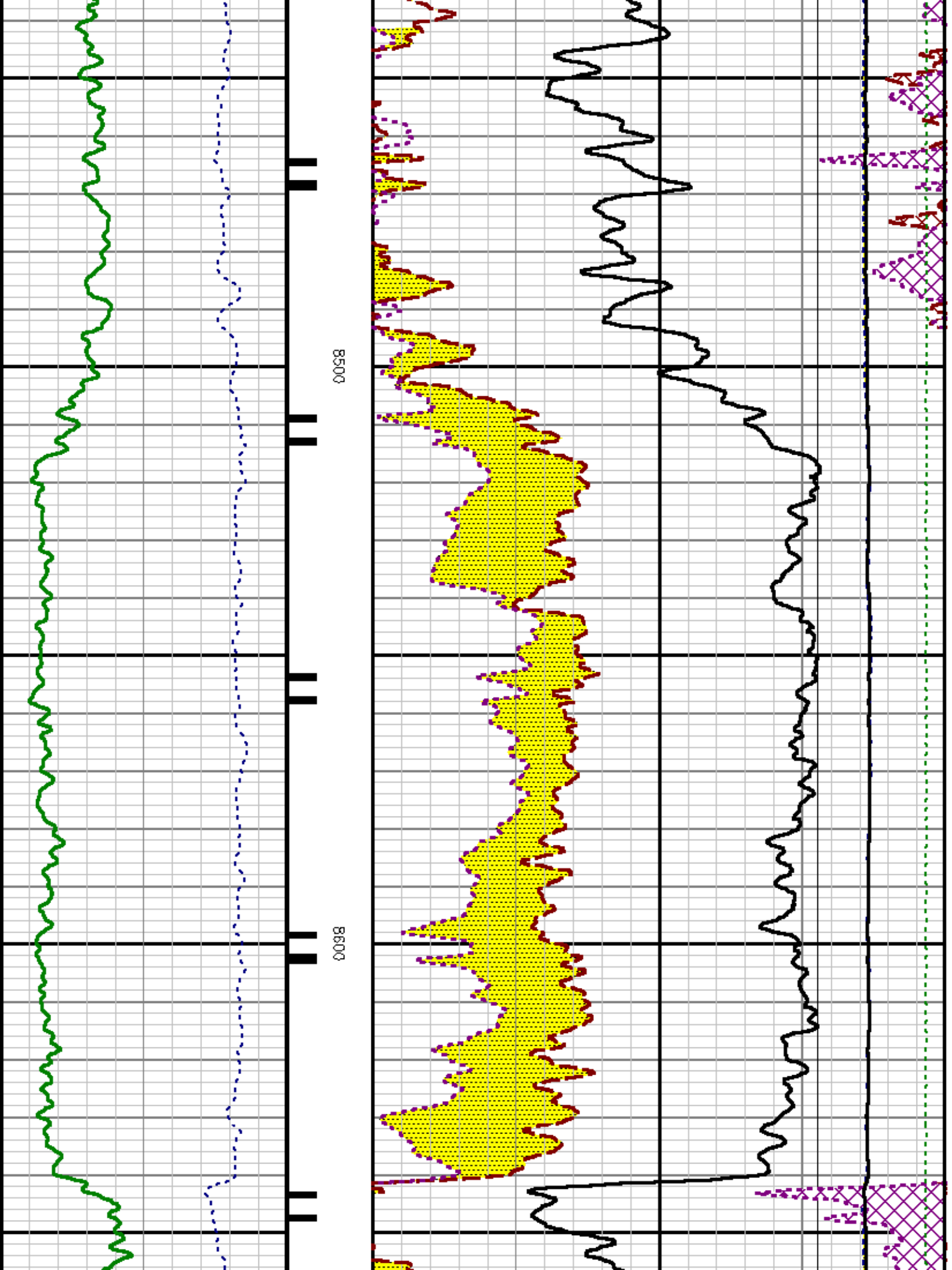
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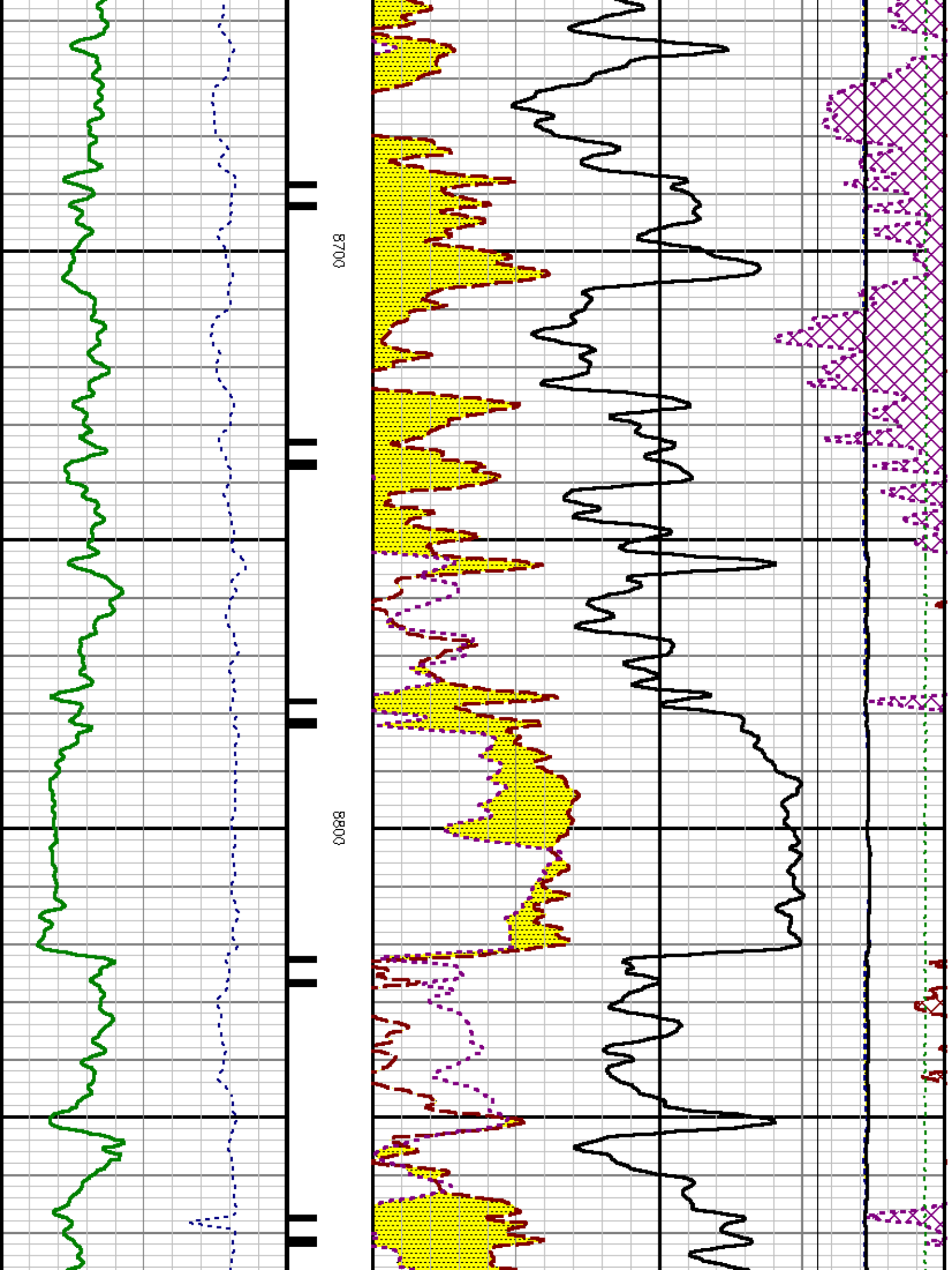
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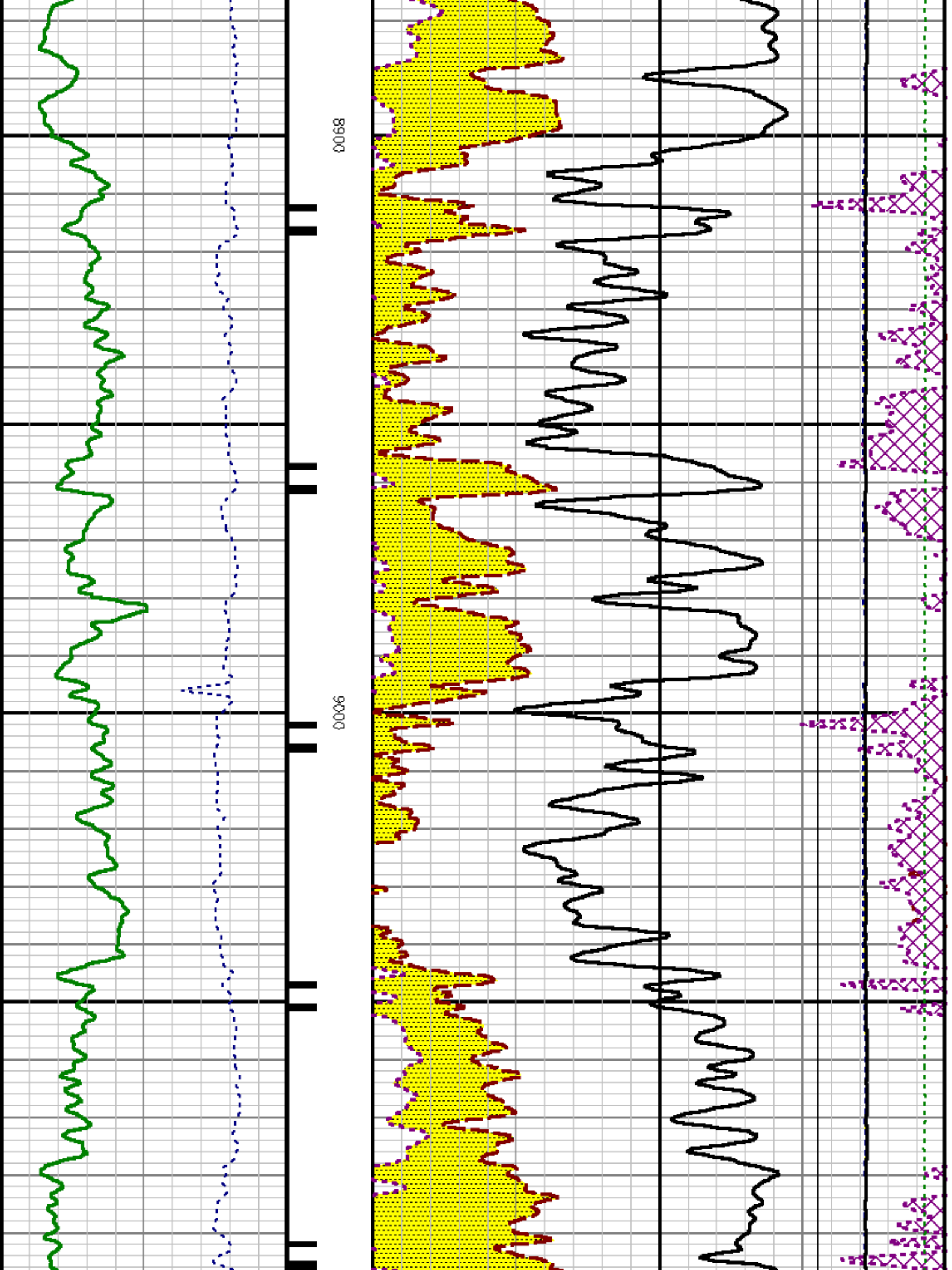
Created by : MIXED
 Plotted by : PlotMgr, v5.4.5D4
 Company : EXXONMOBIL PRODUCTION COMPANY
 Well : PCY 286-5A1
 File Name : d:\well\data\alrpm\main.xtf
 Mode : PlotMgr 5.4.5D4
 Interval : B217.50 - 141D4.00 feet UP
 Created : 7/23/2011 6:17:06 PM

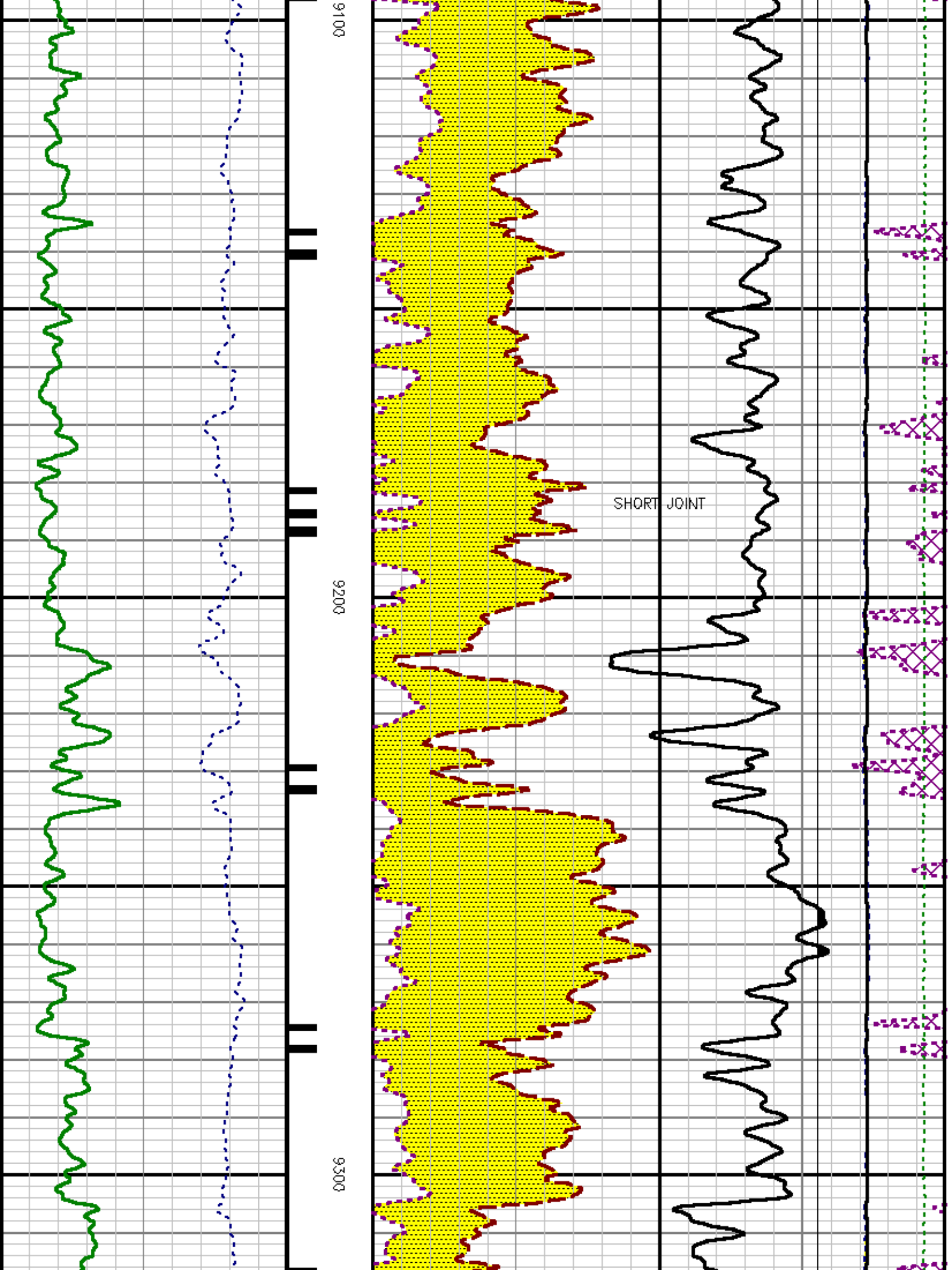


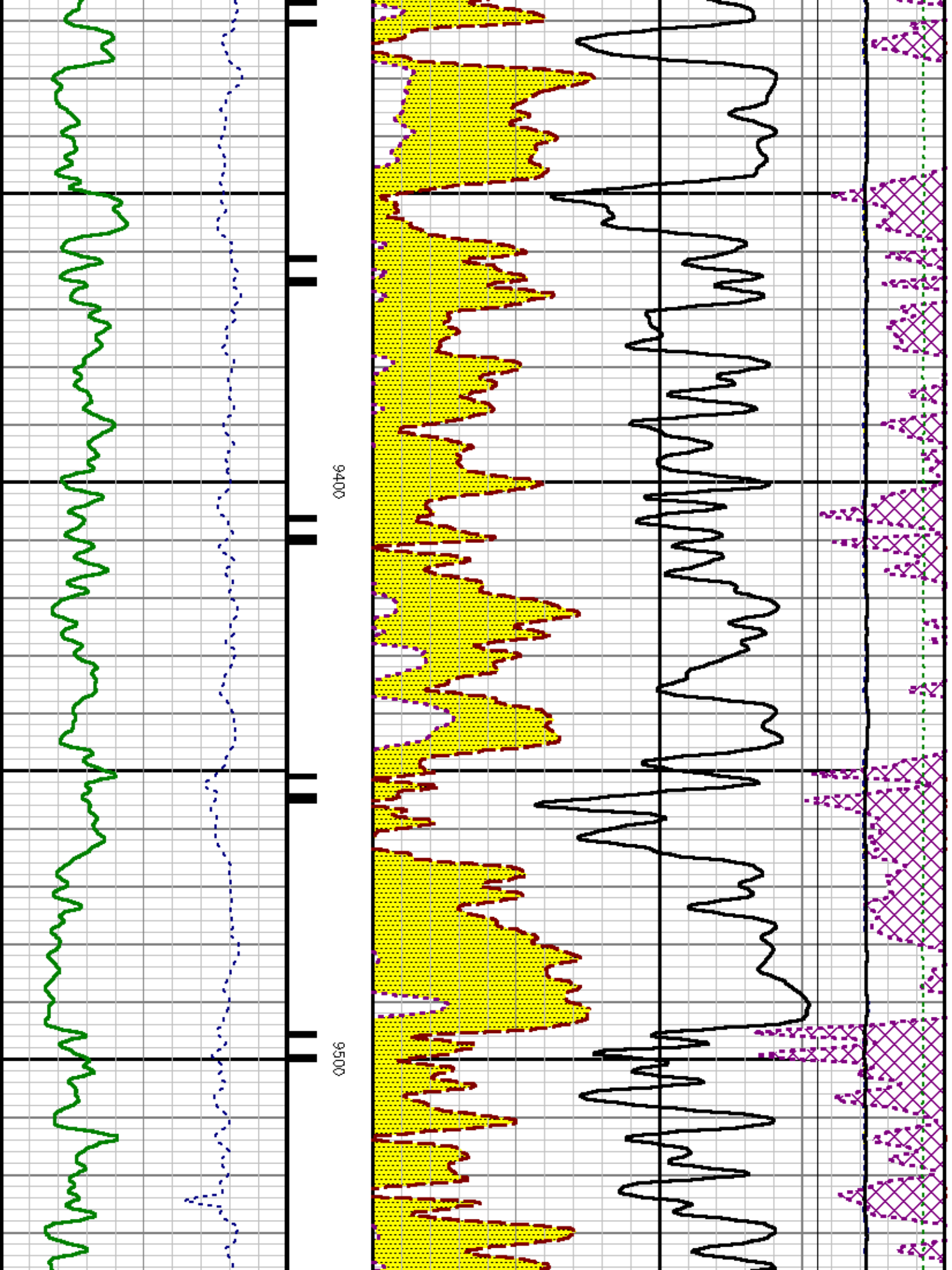


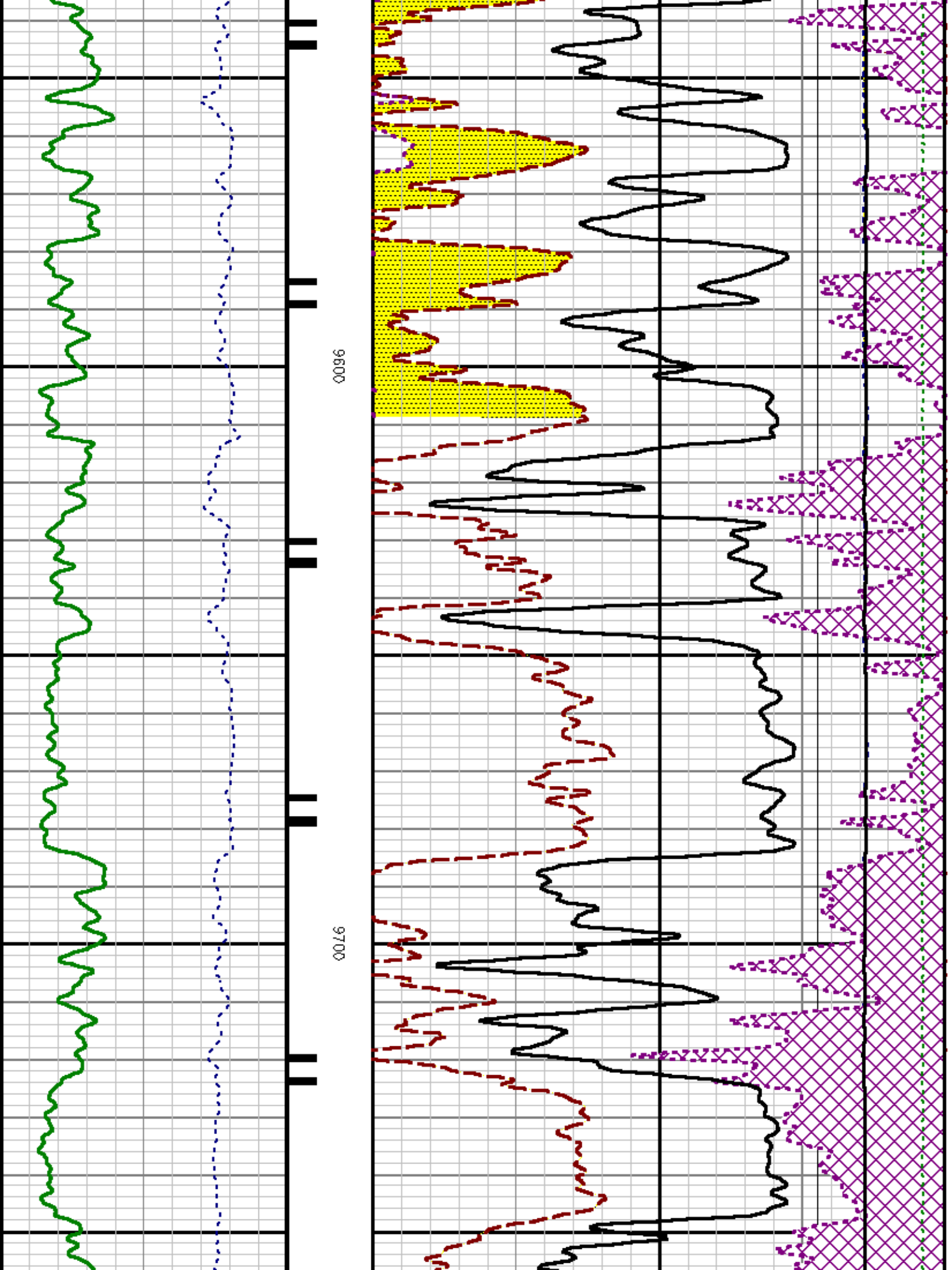


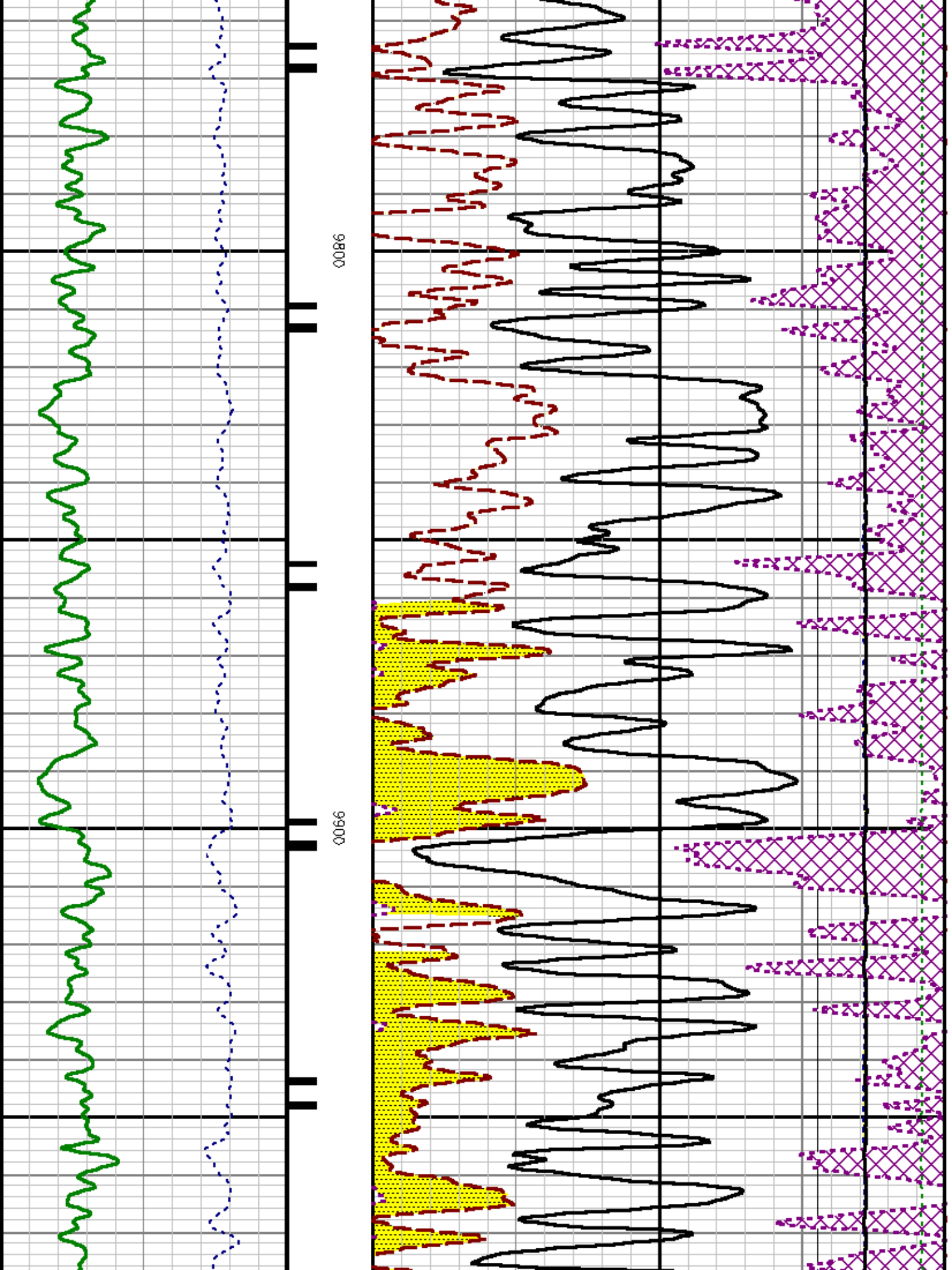


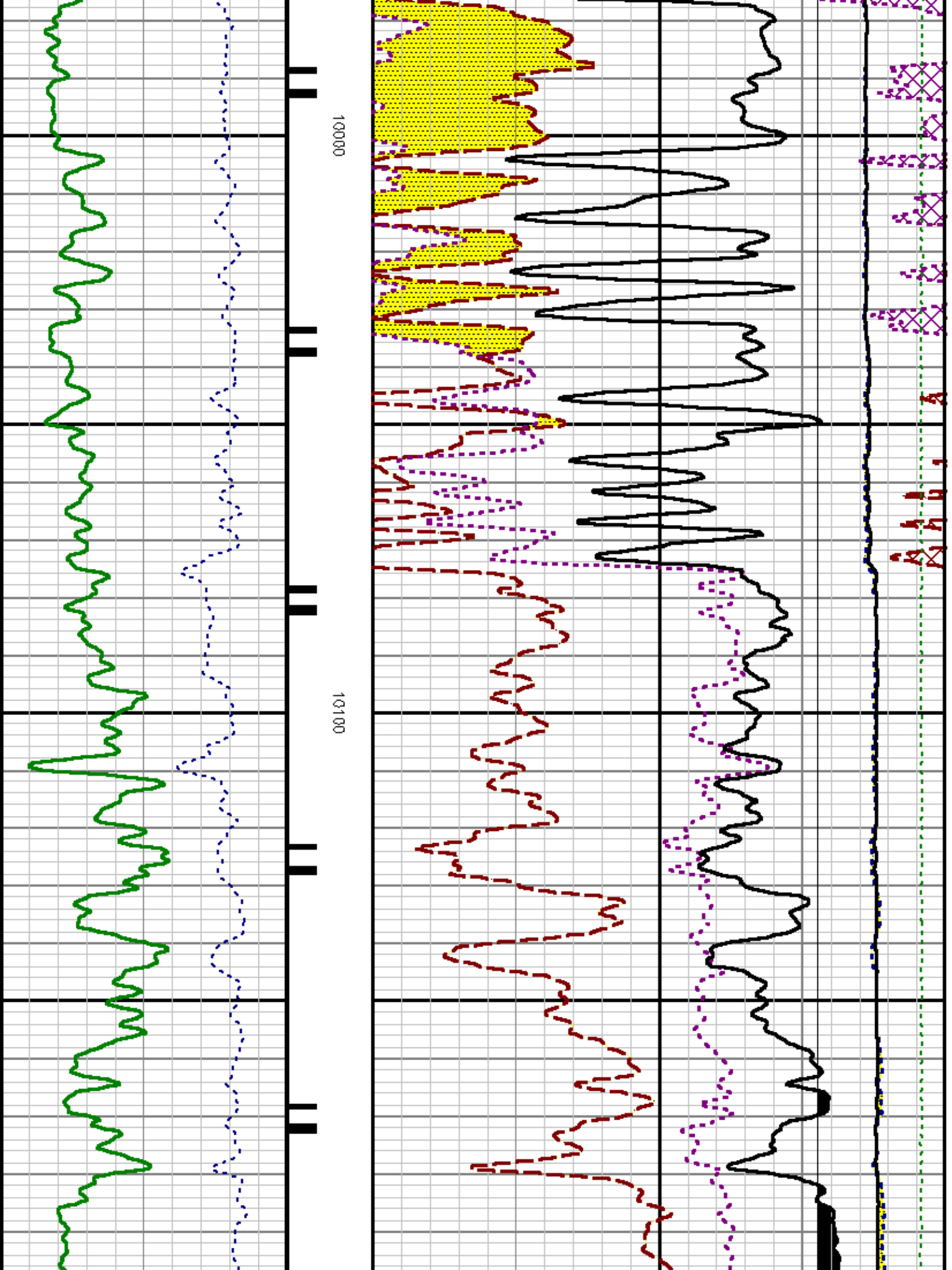










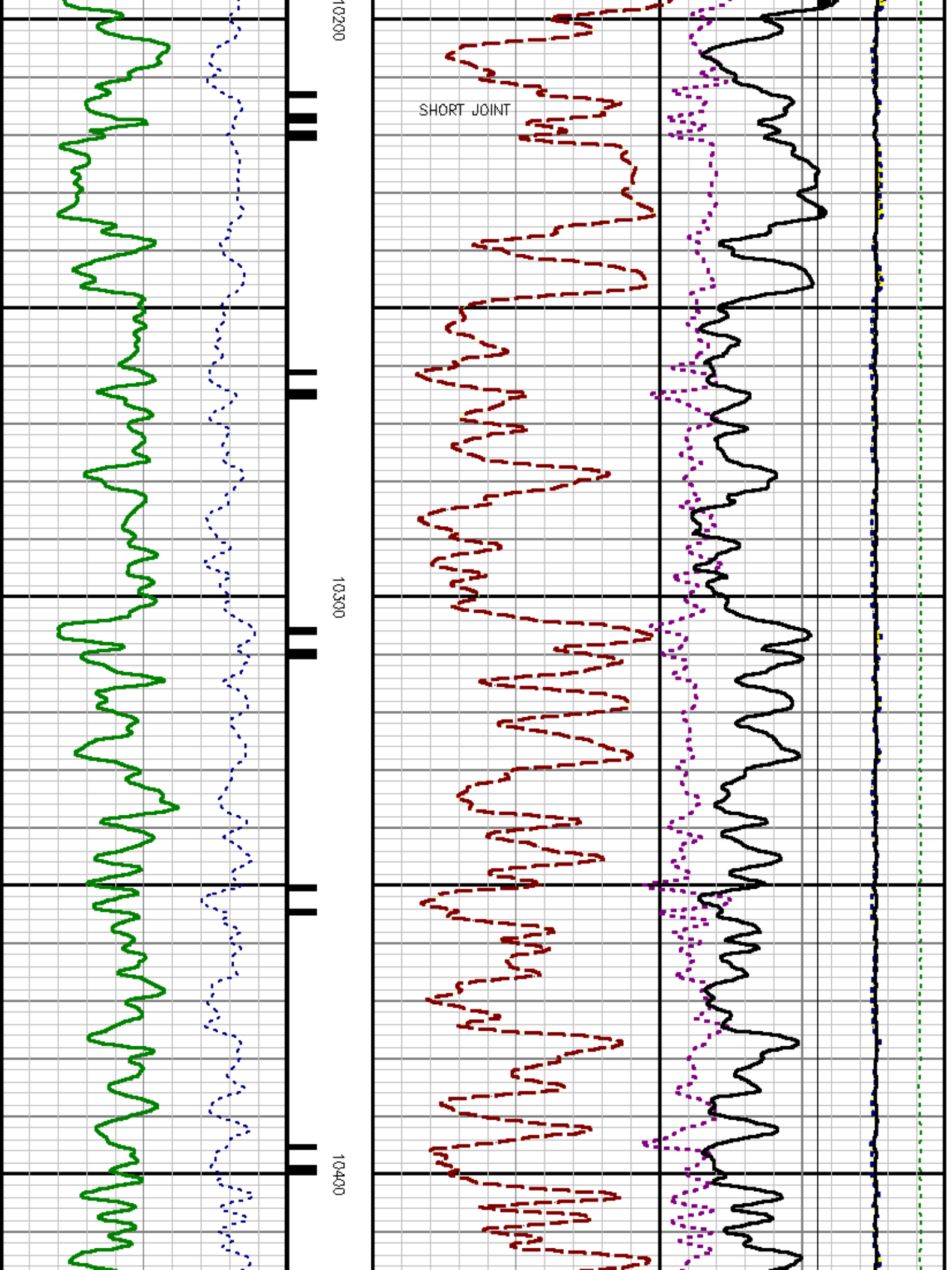


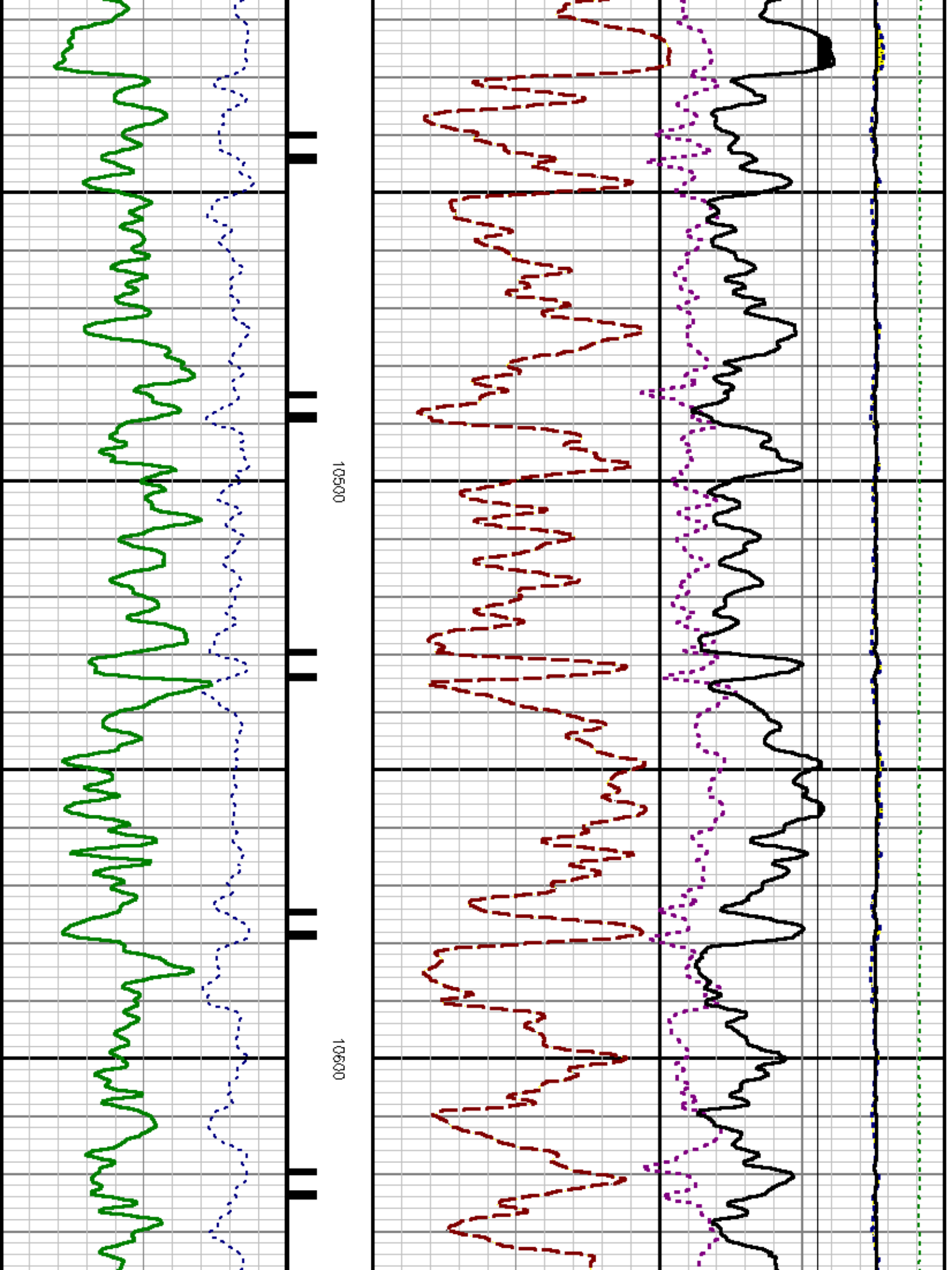
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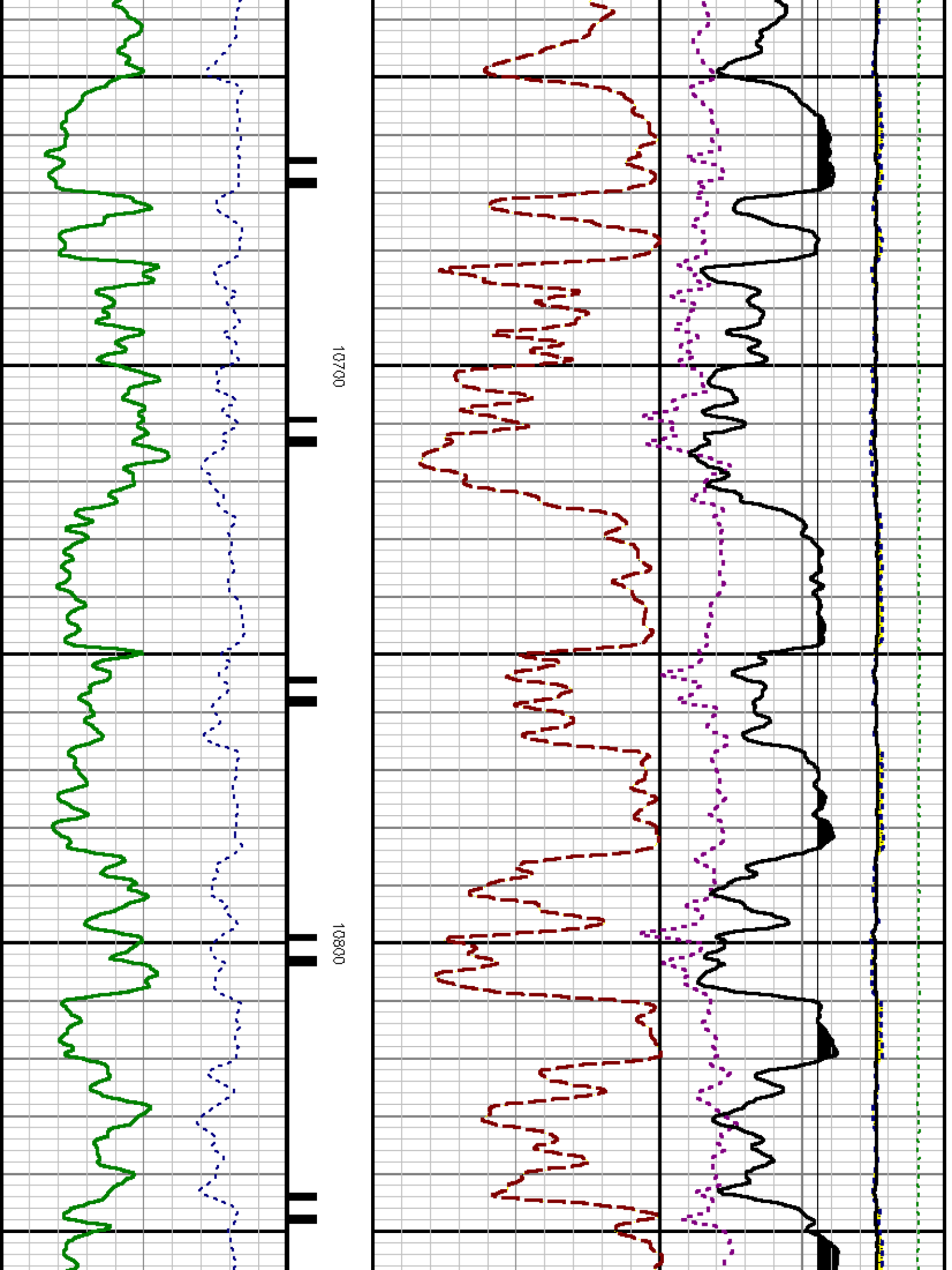
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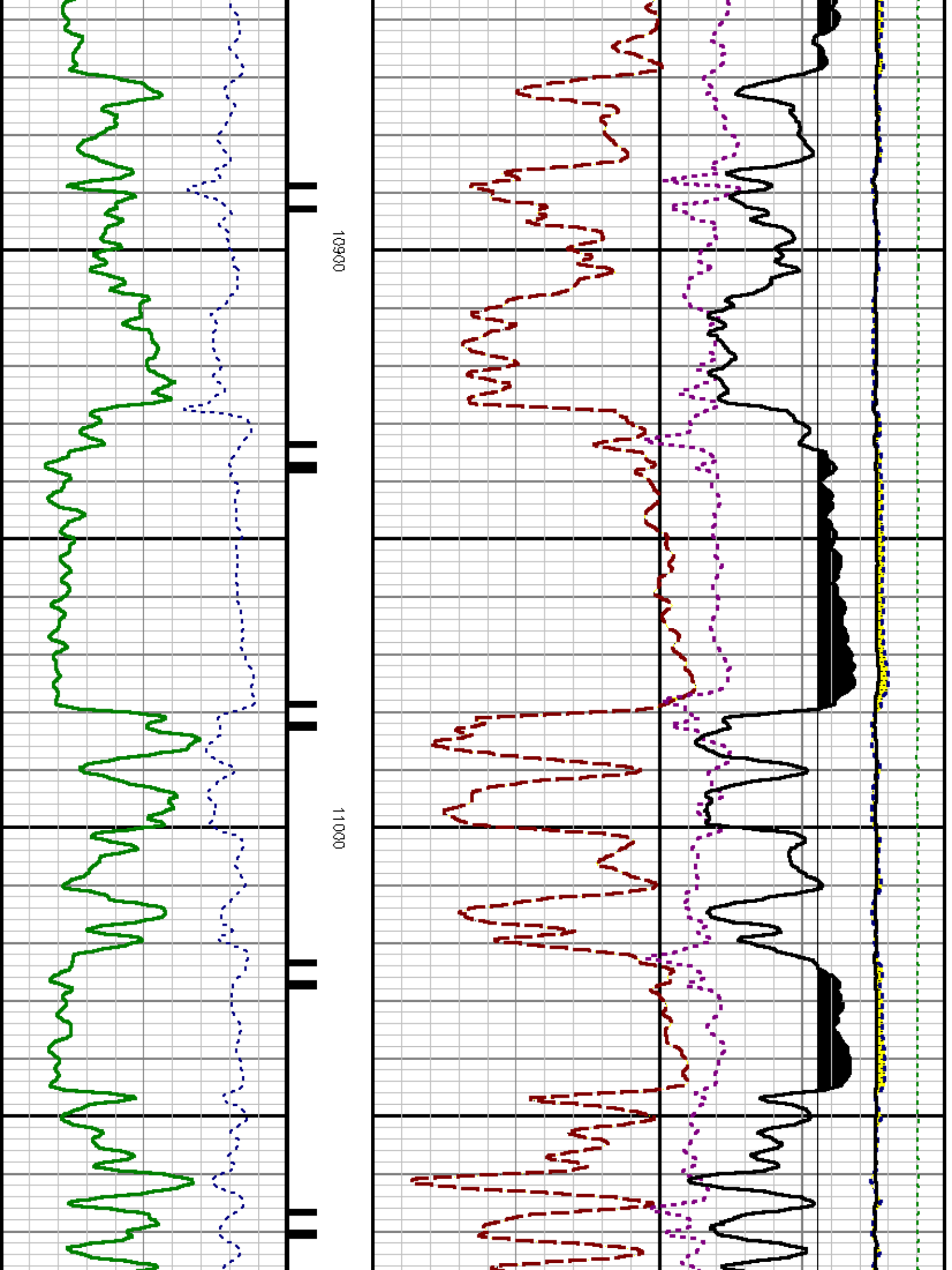
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10400





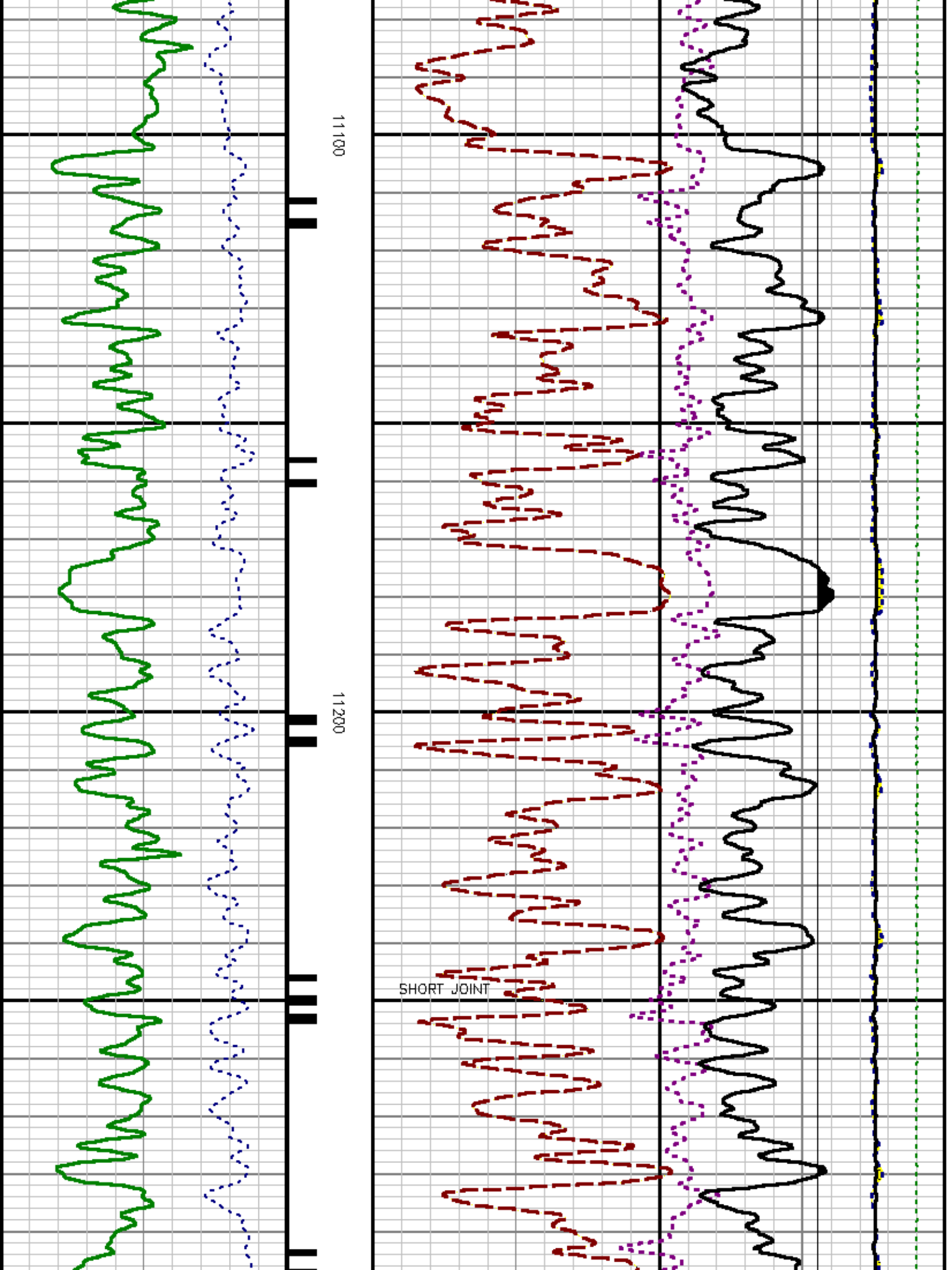




11100

11200

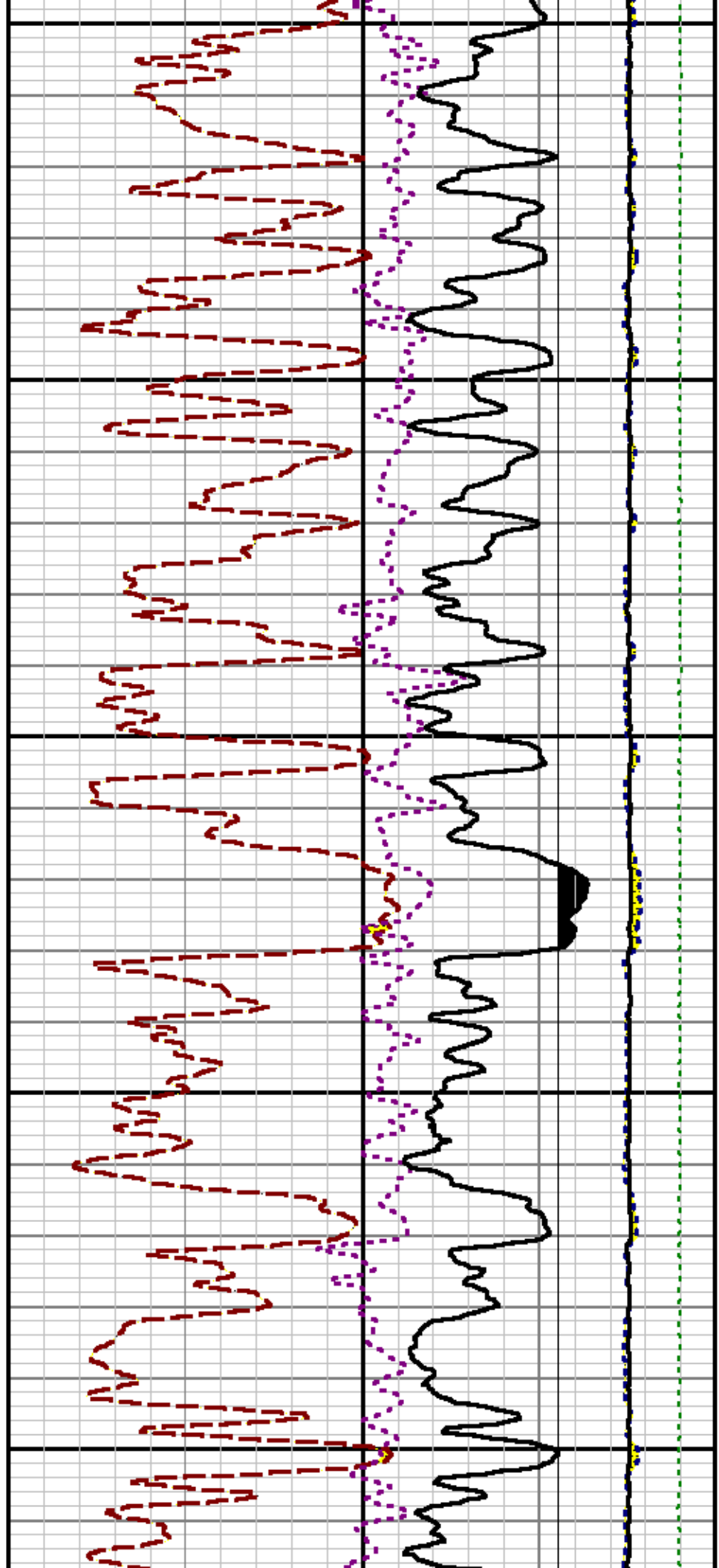
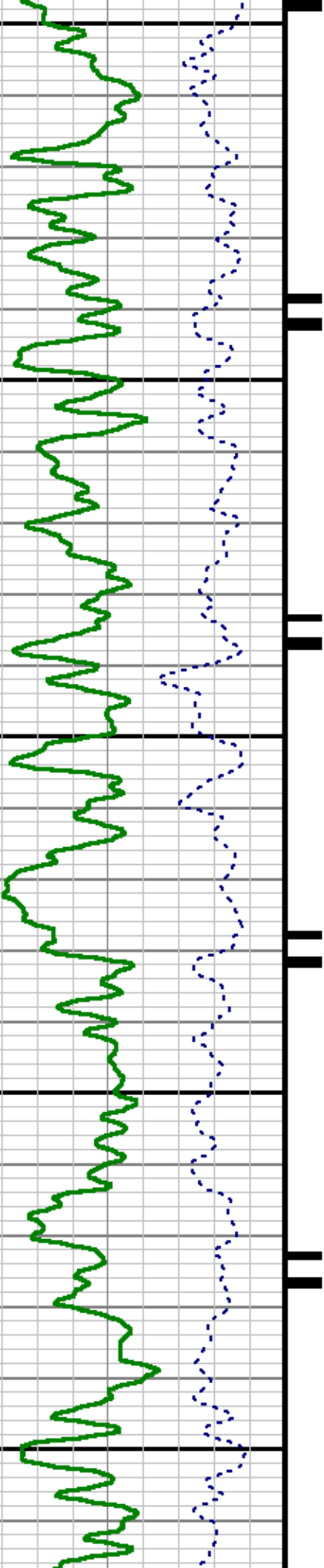
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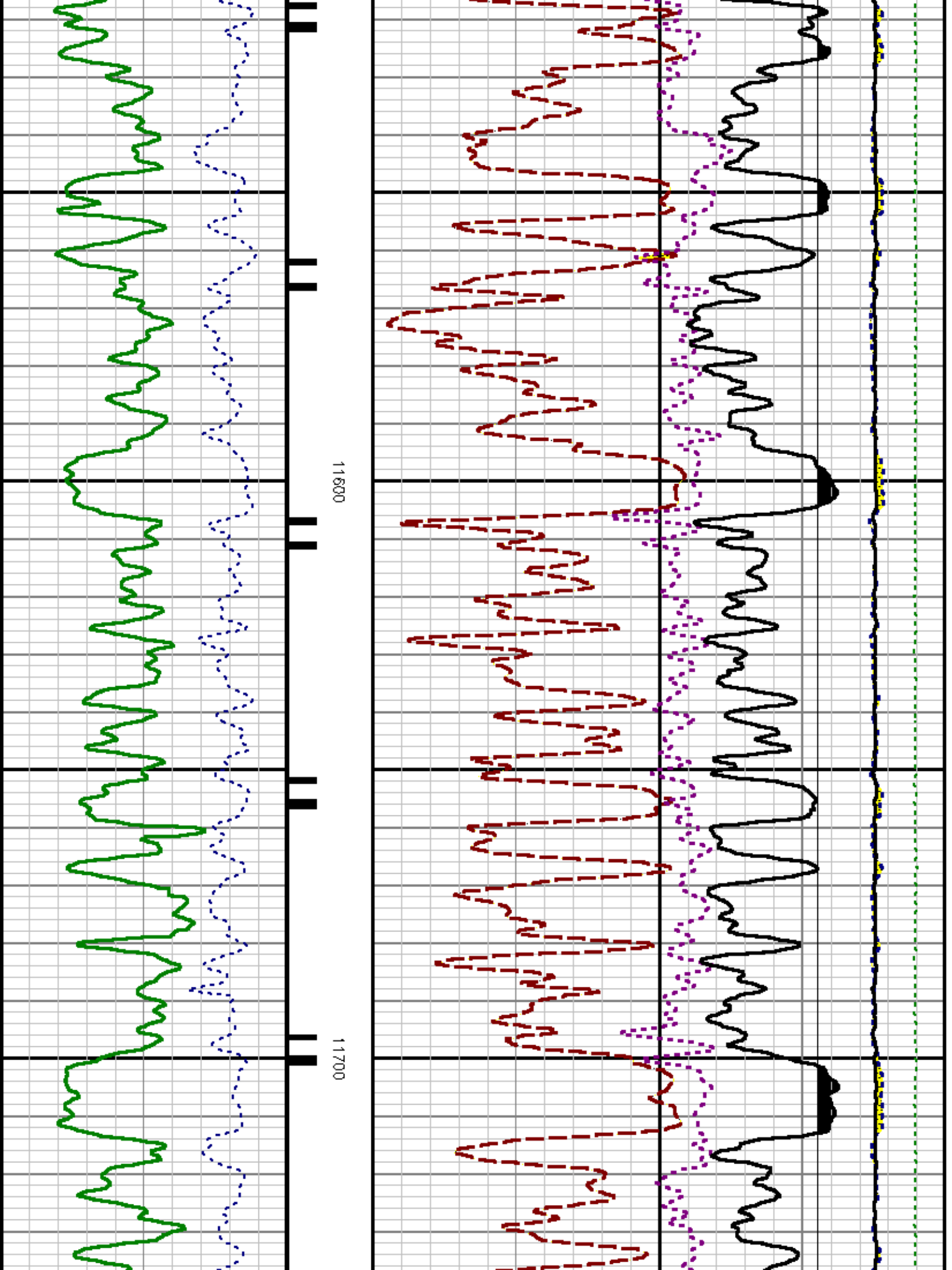


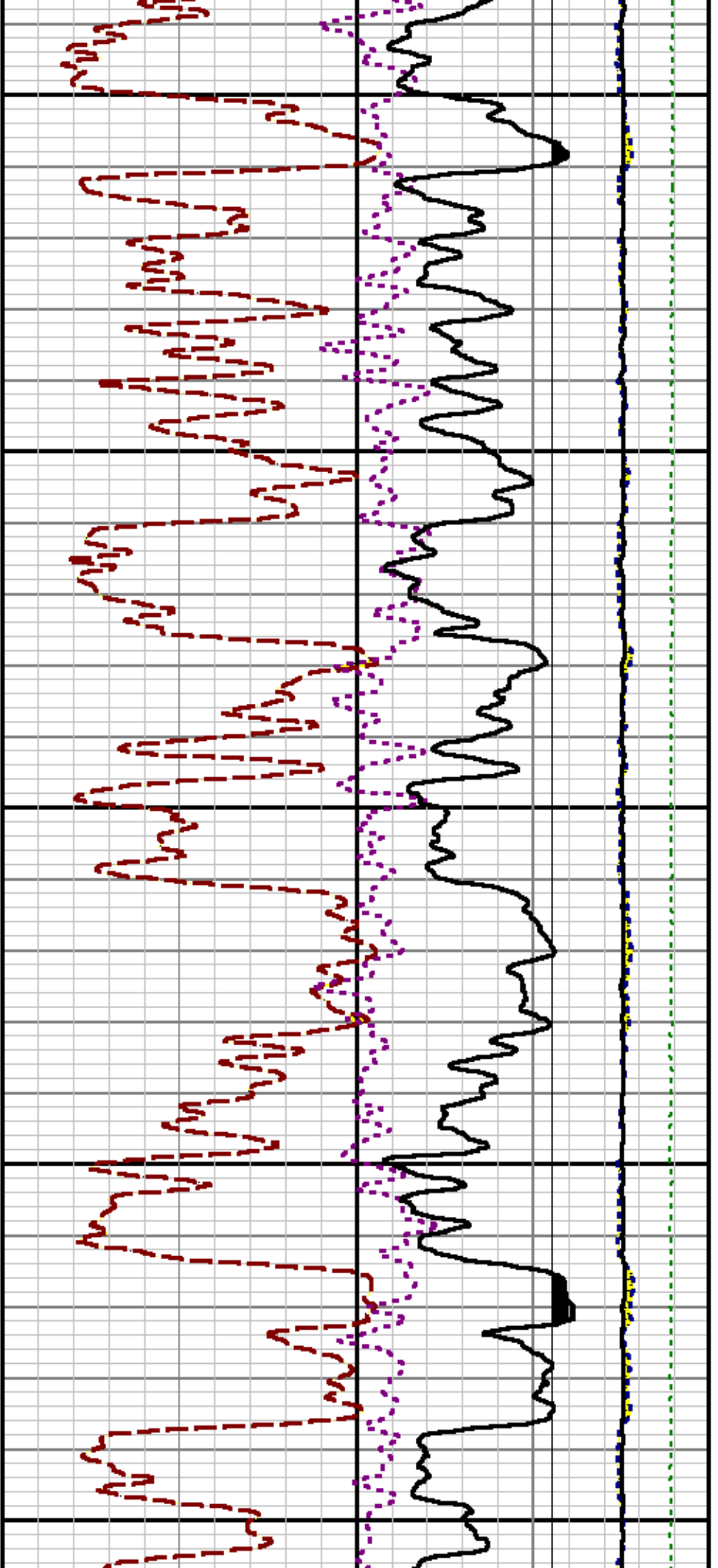
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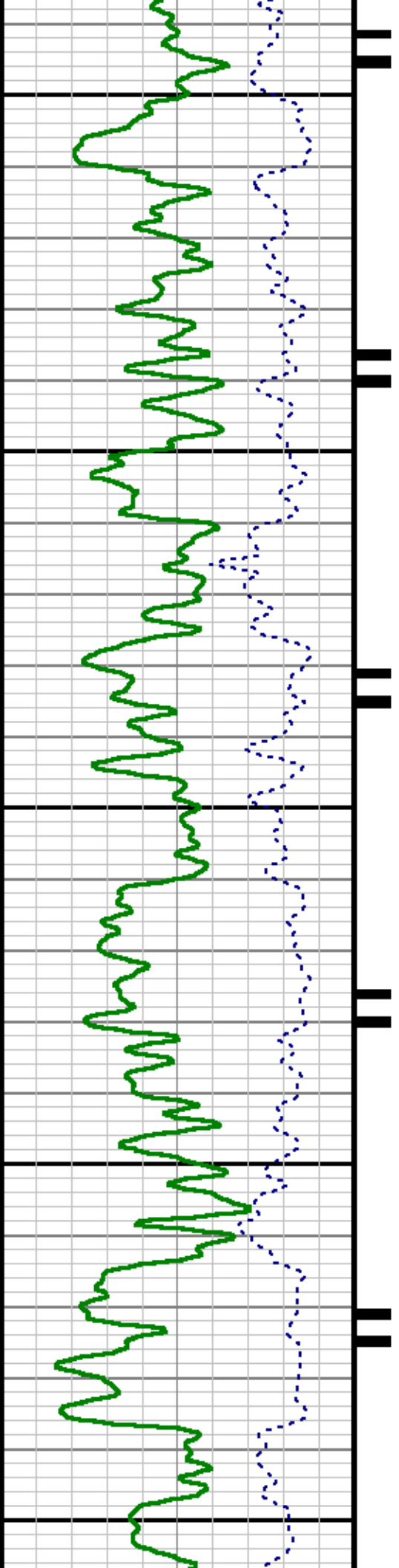


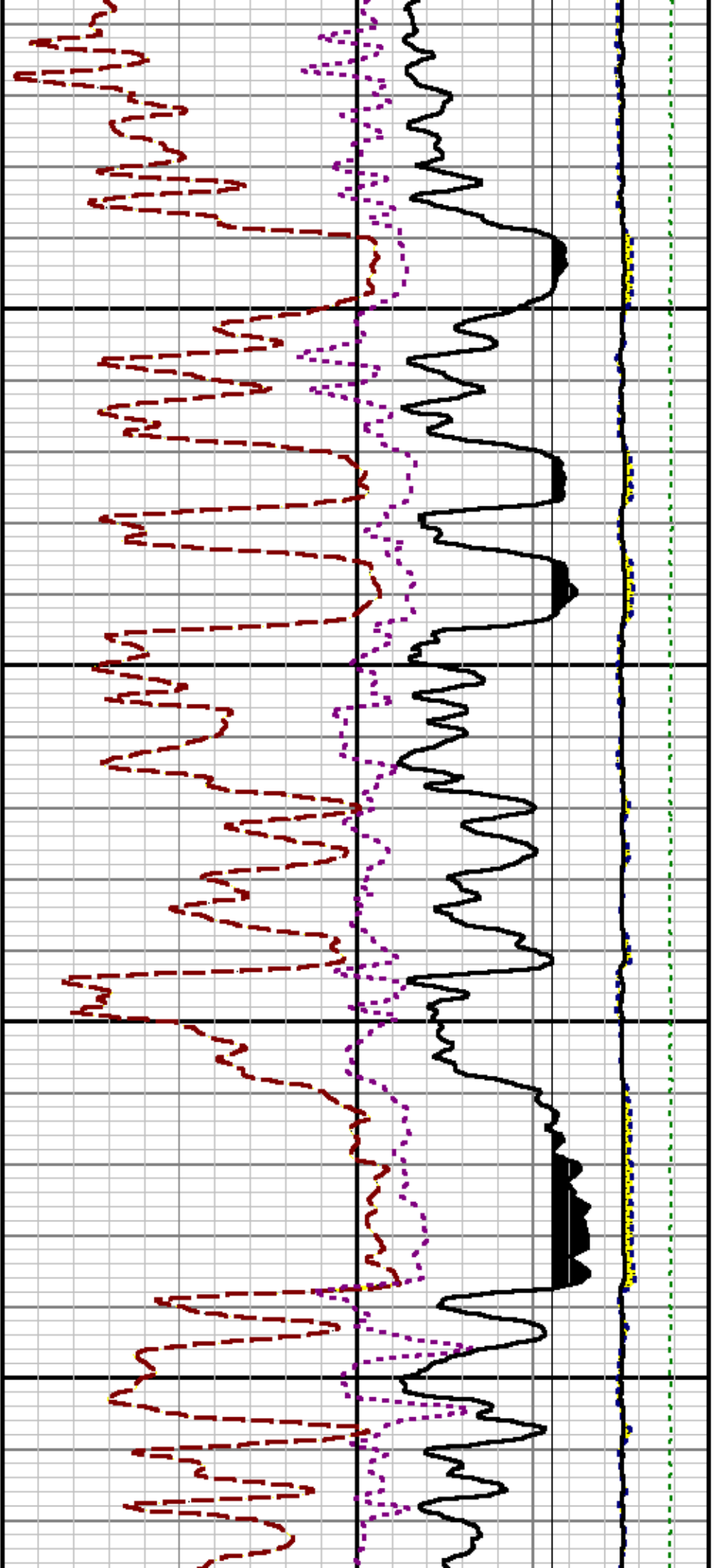




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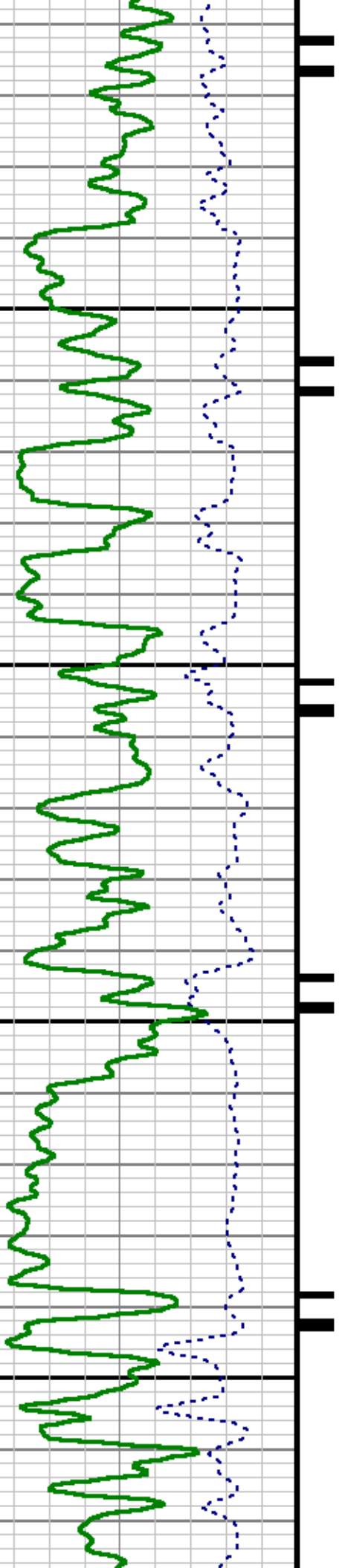
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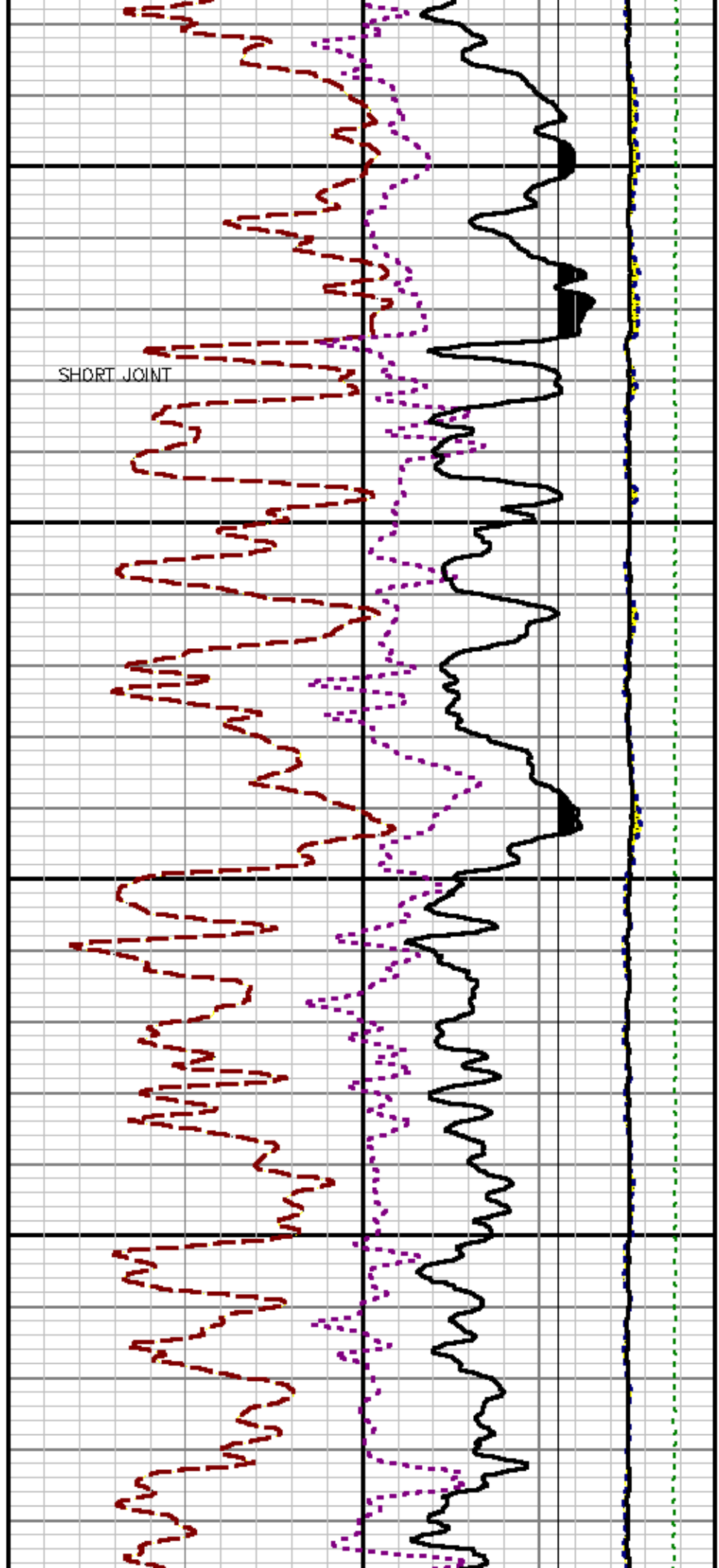




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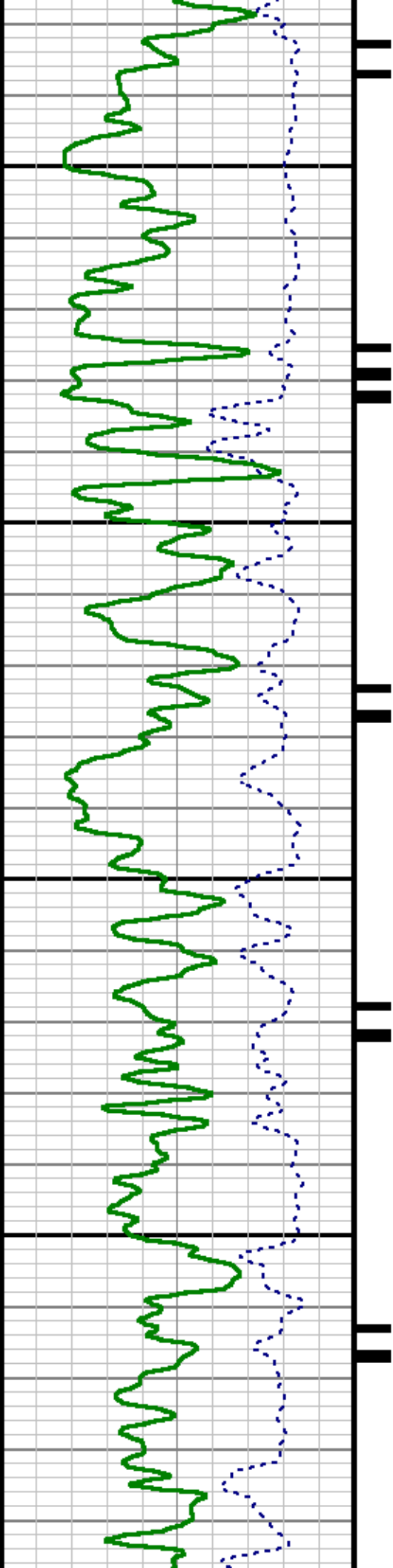


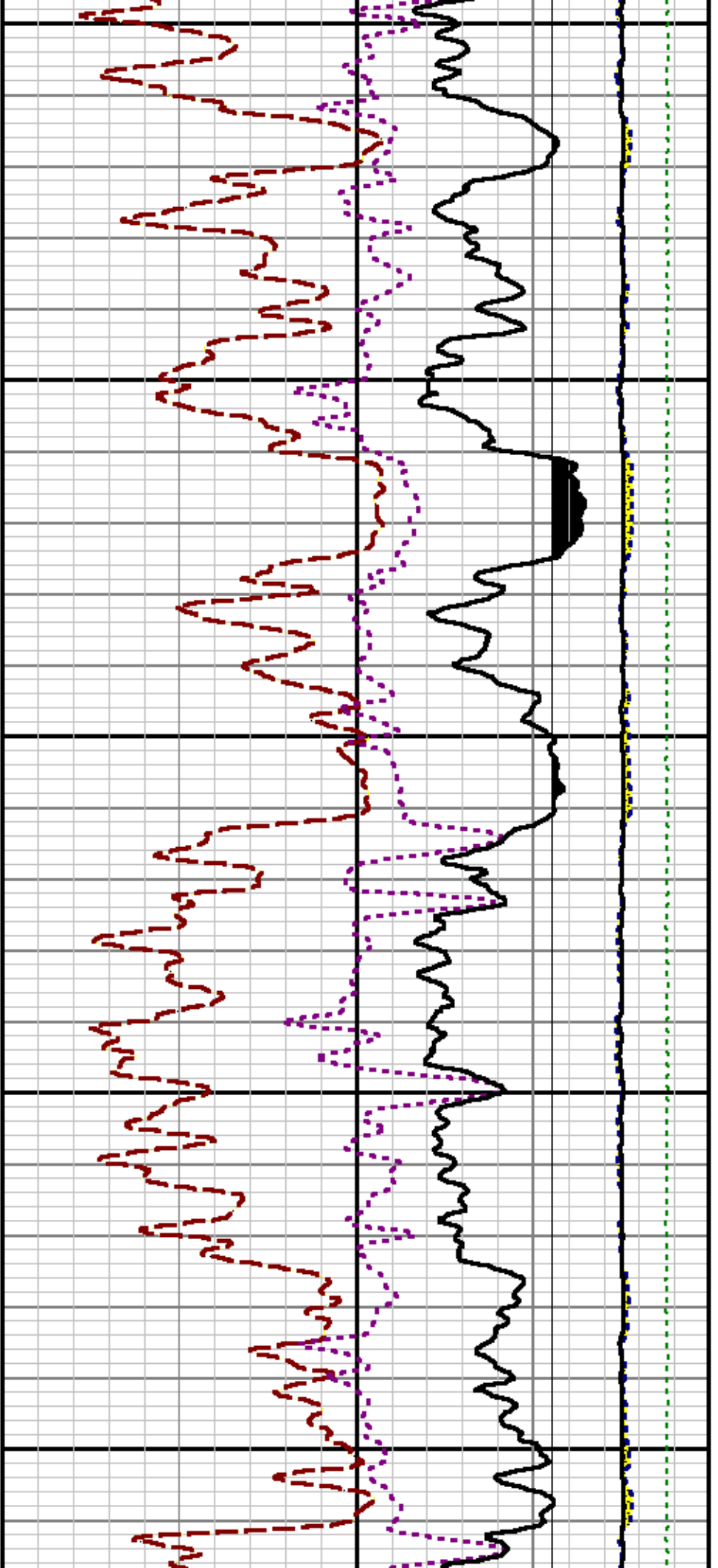


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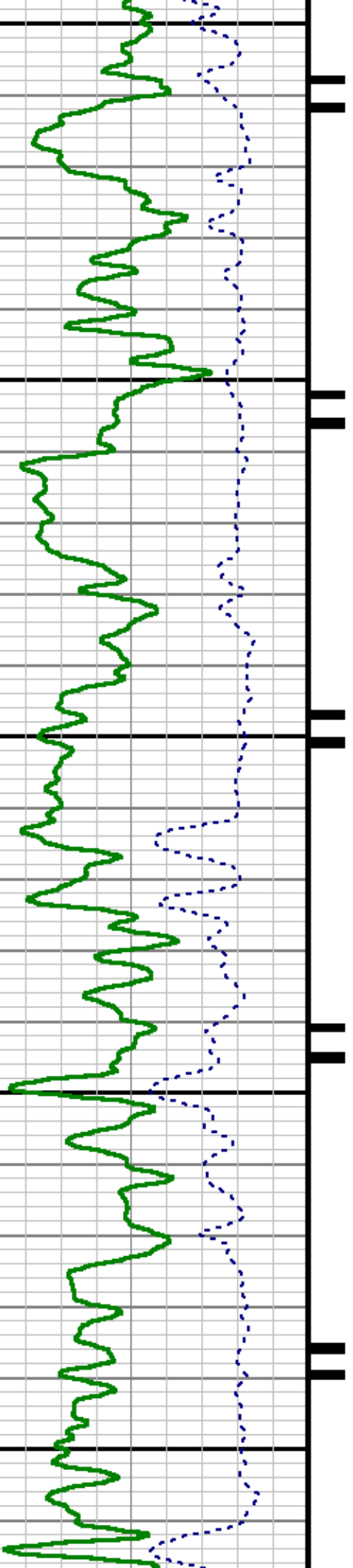


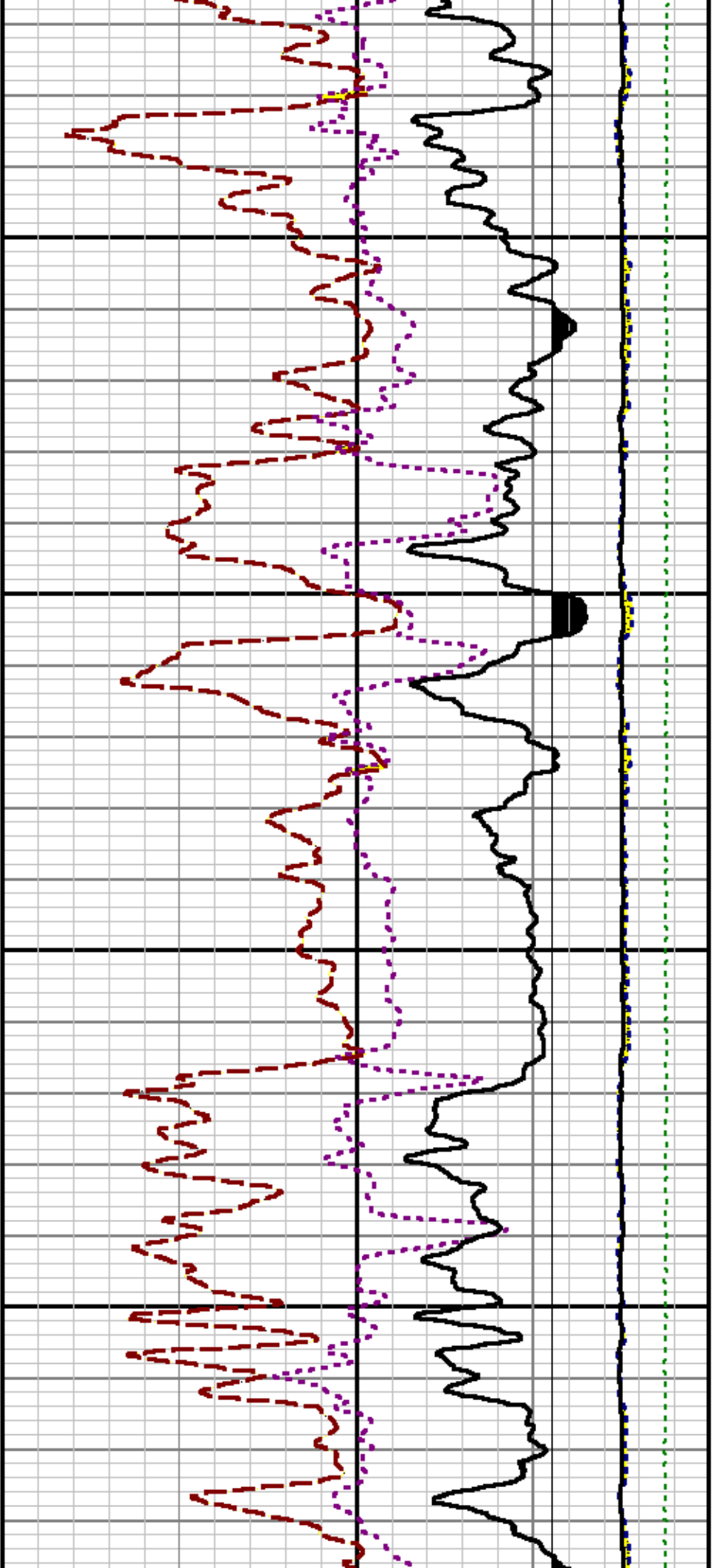


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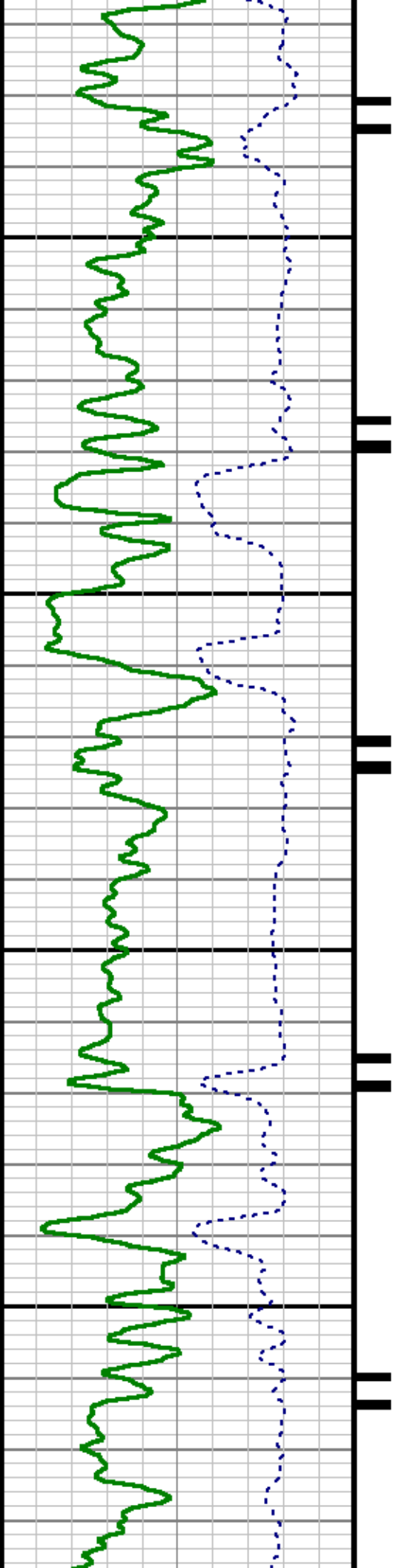
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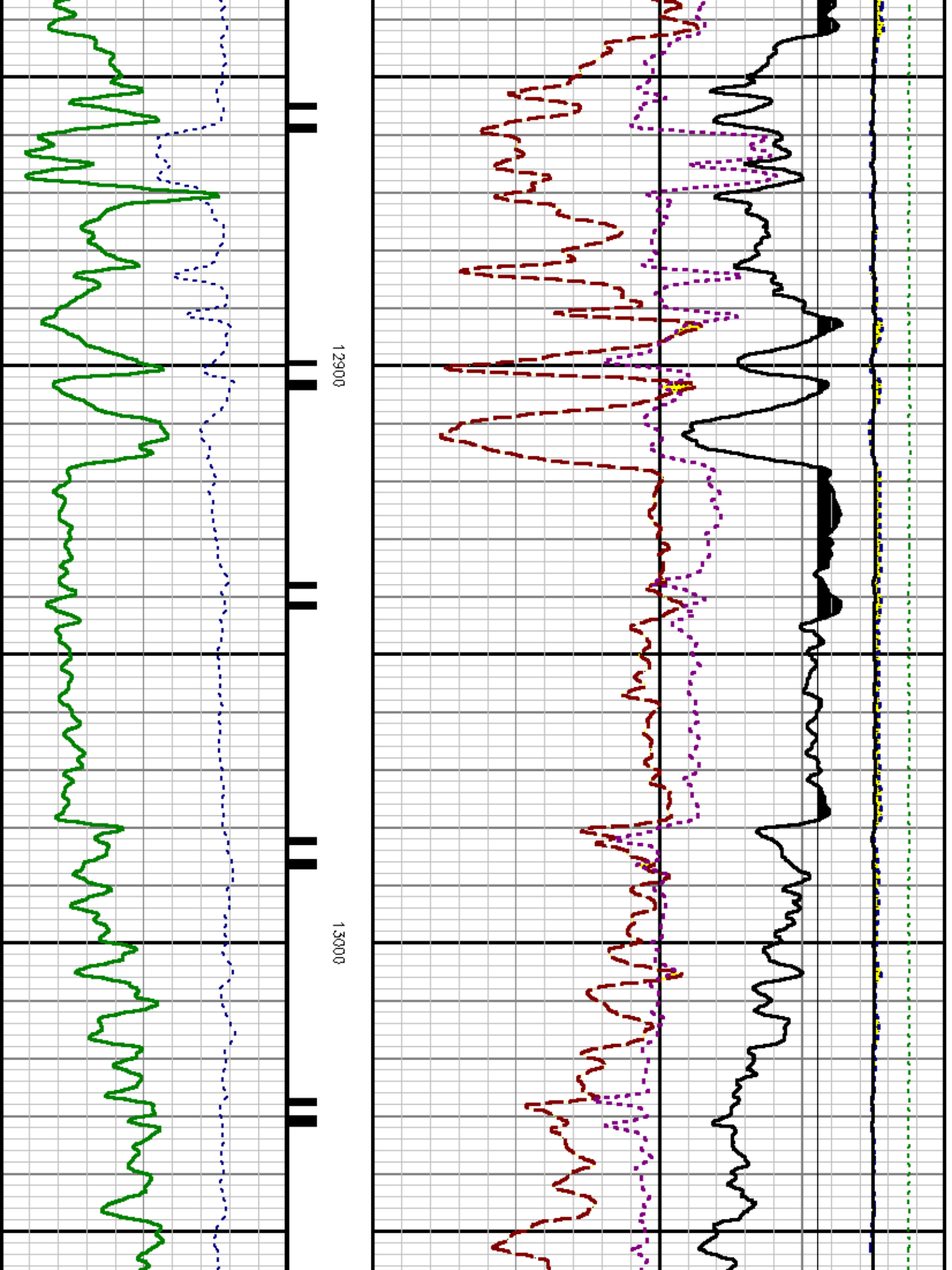


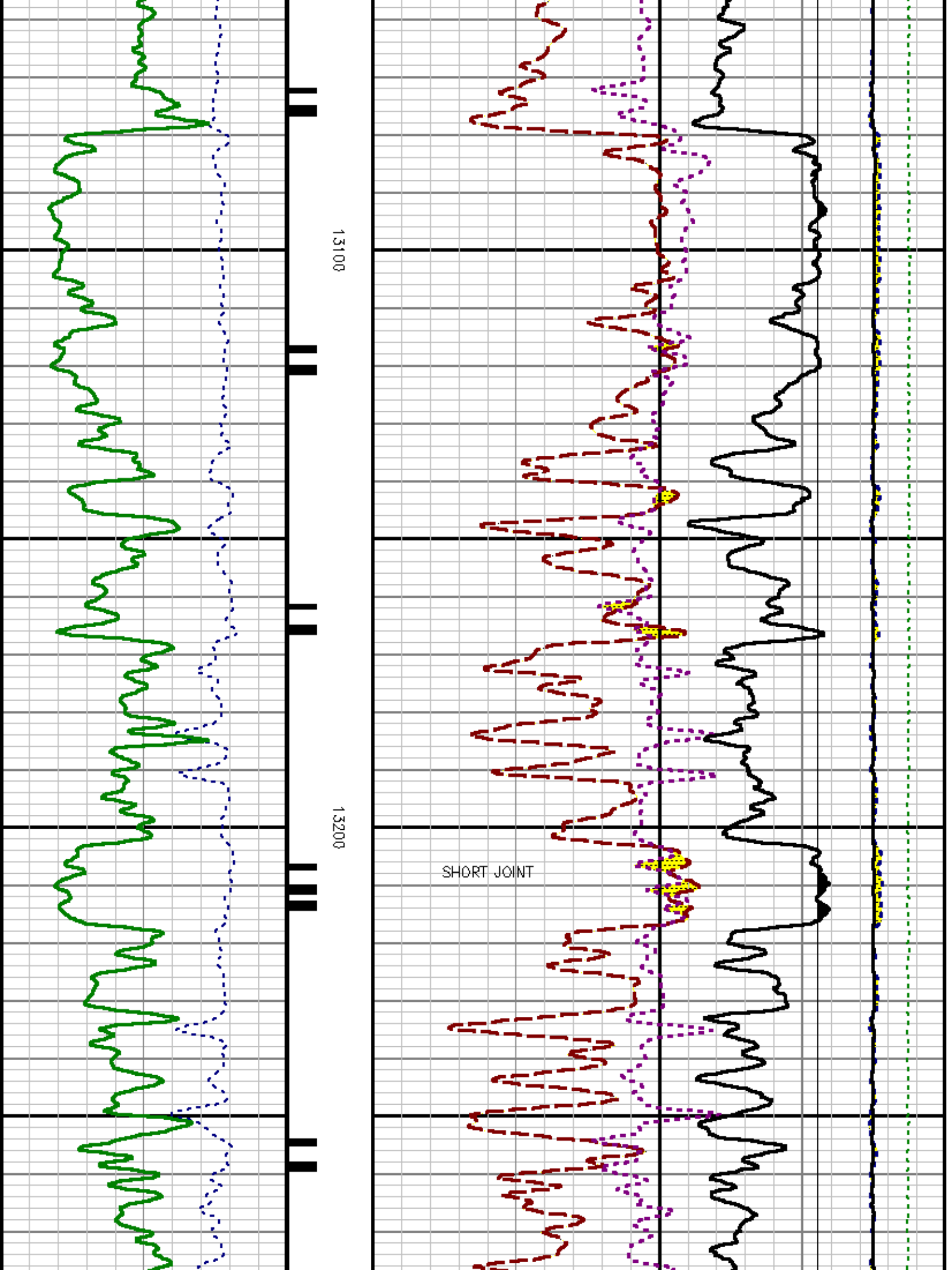


12700

12800



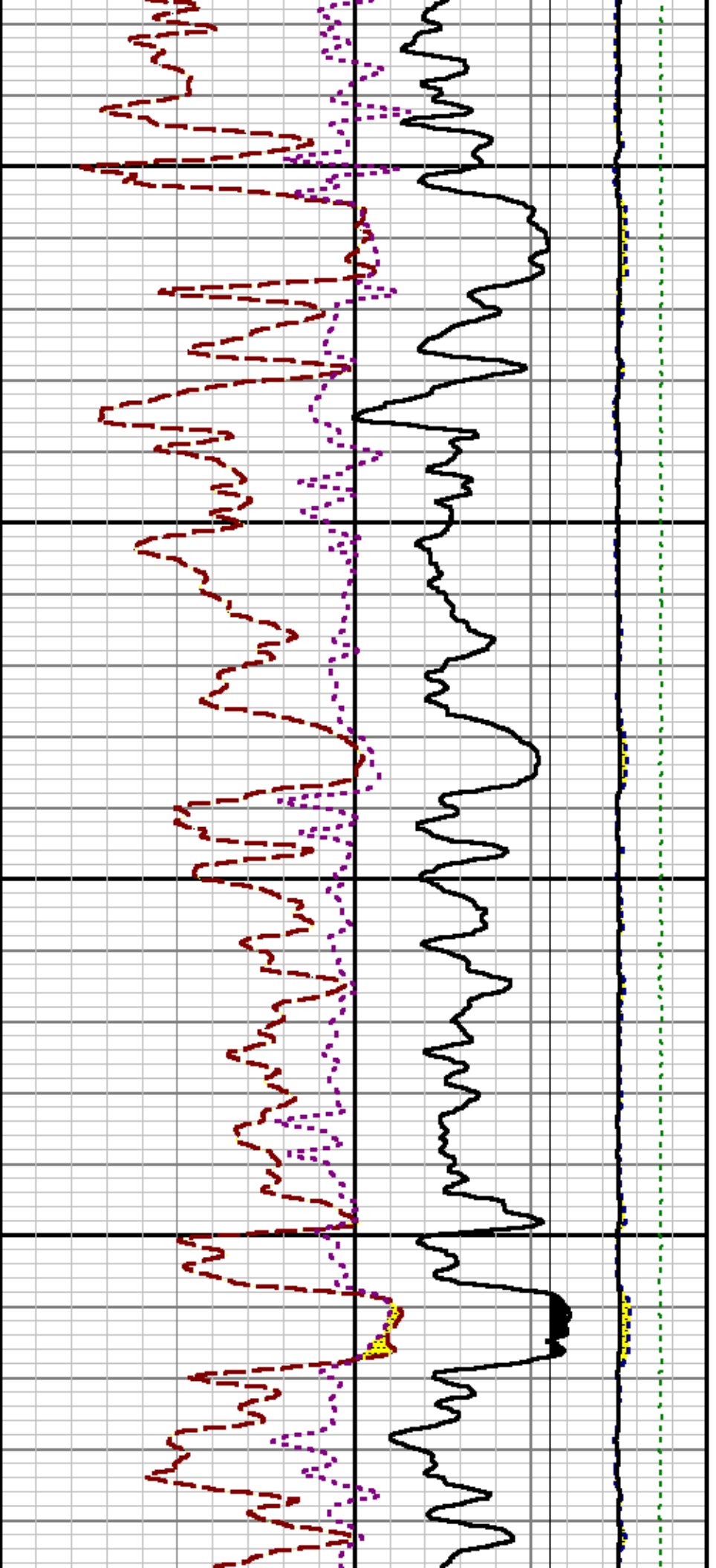




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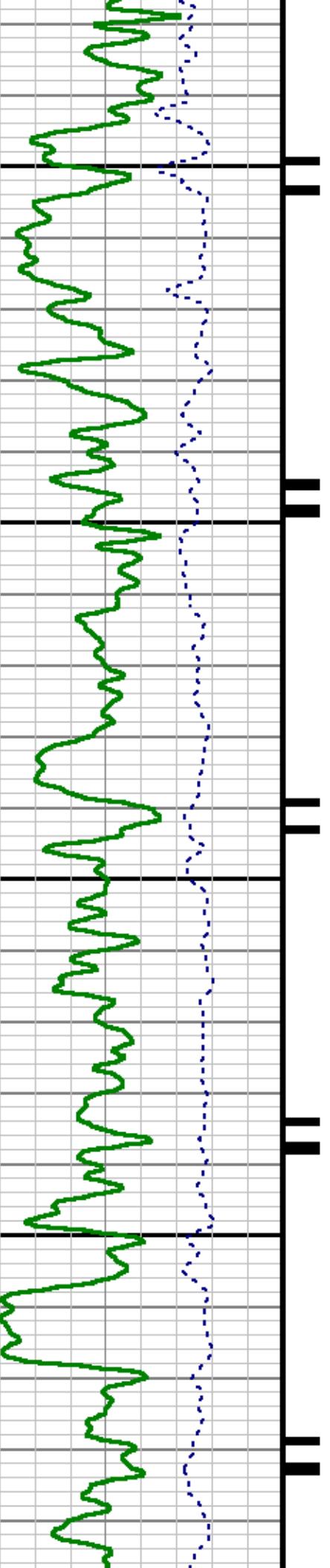
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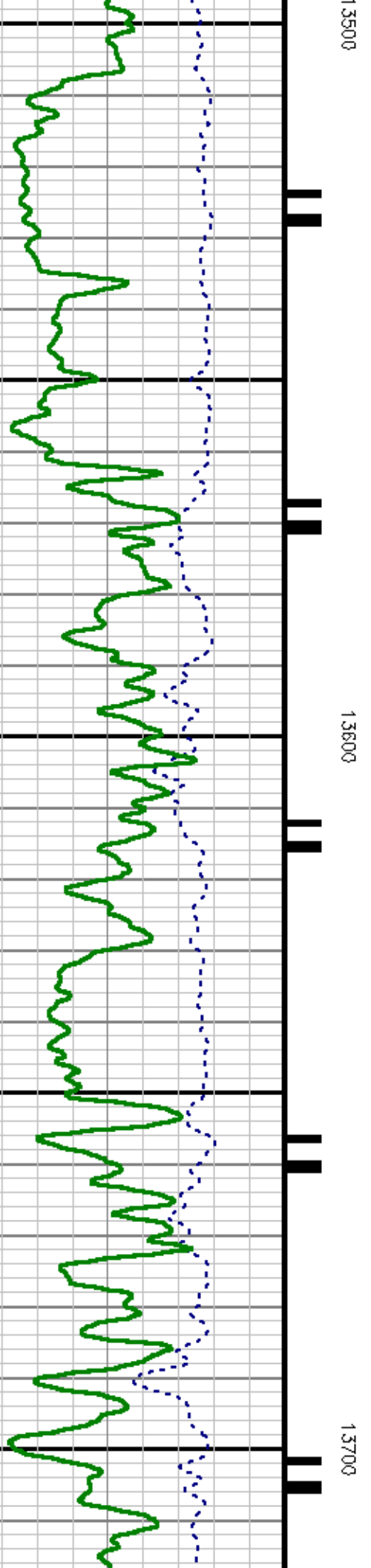
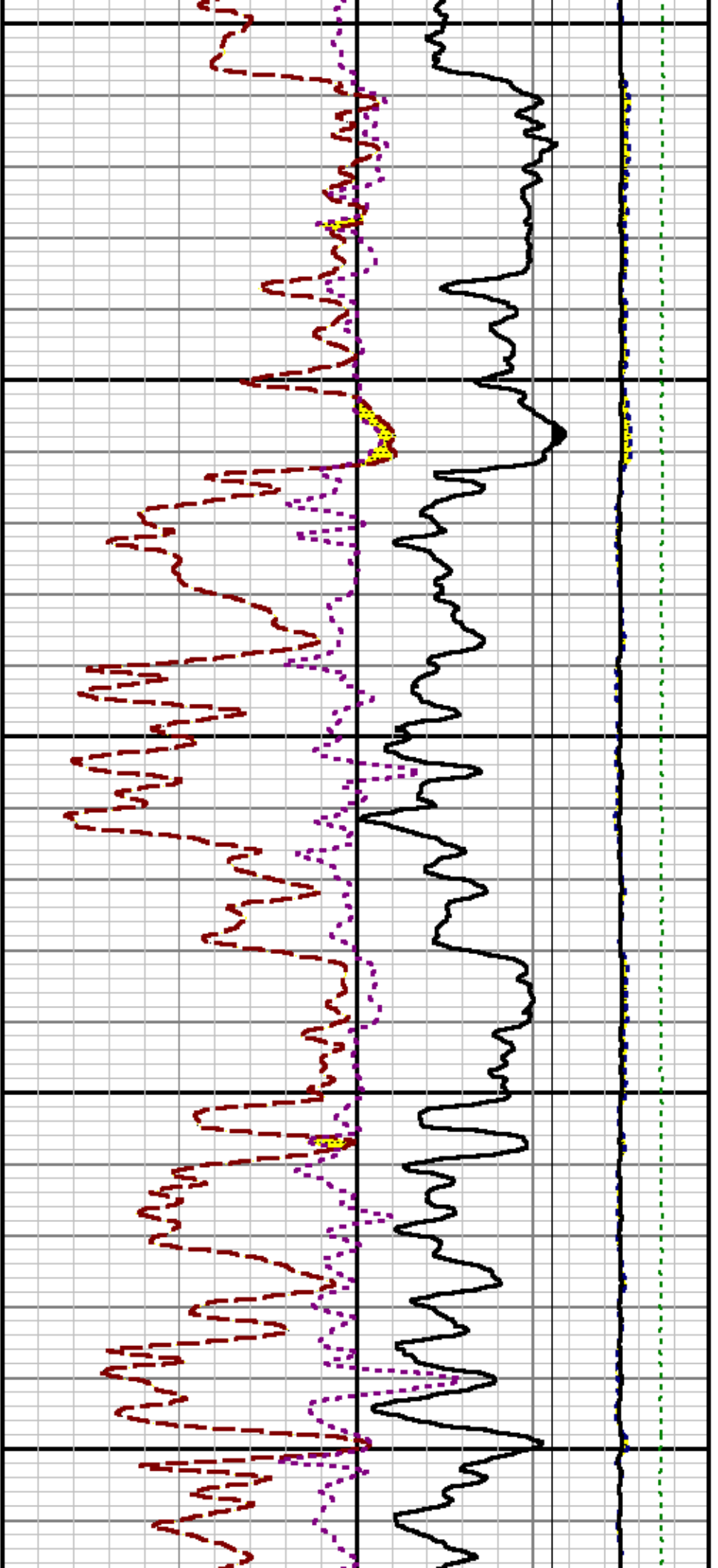
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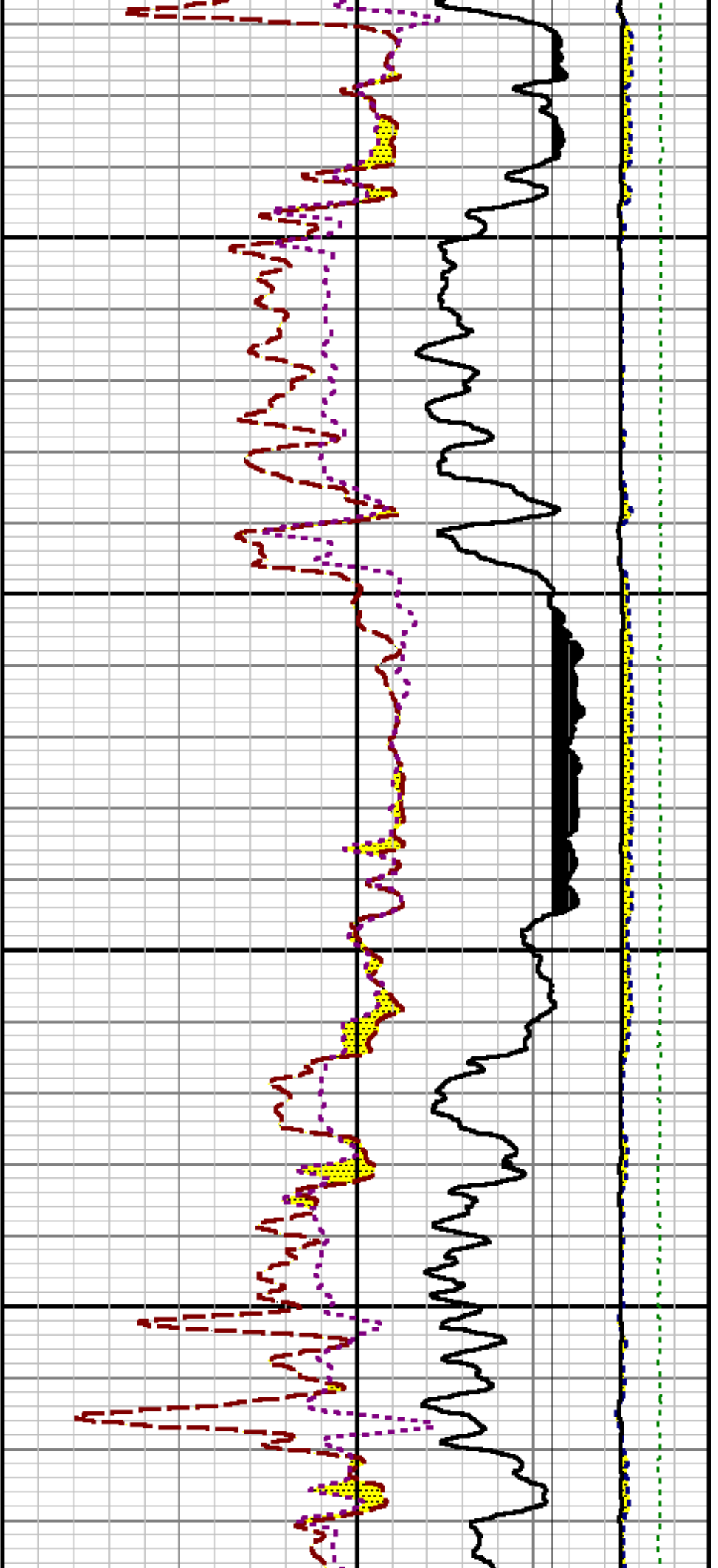


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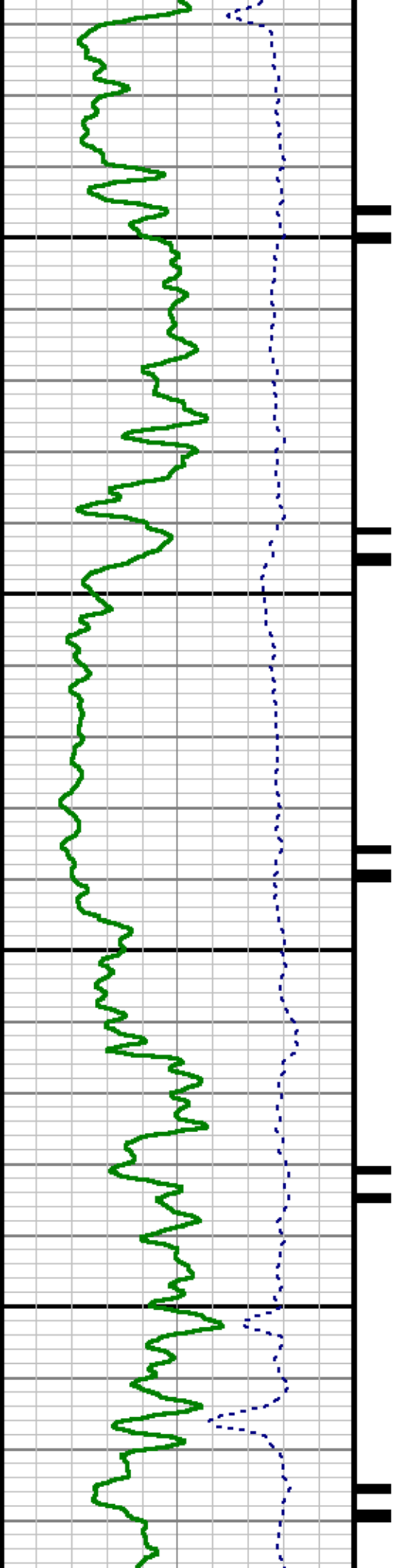


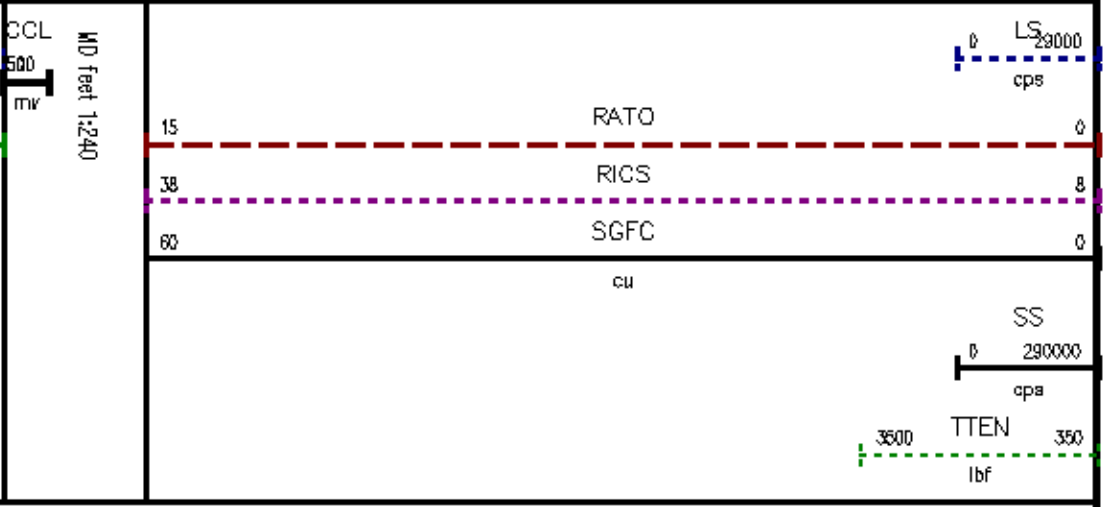
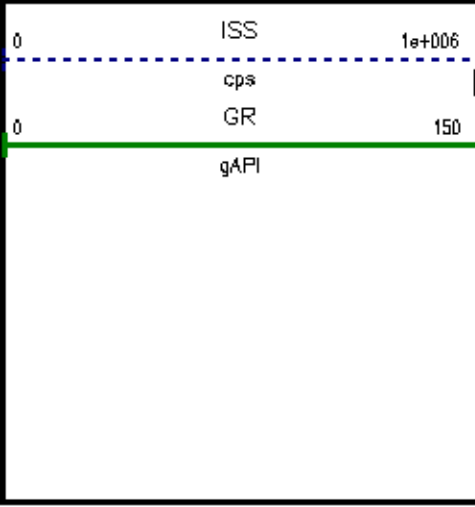
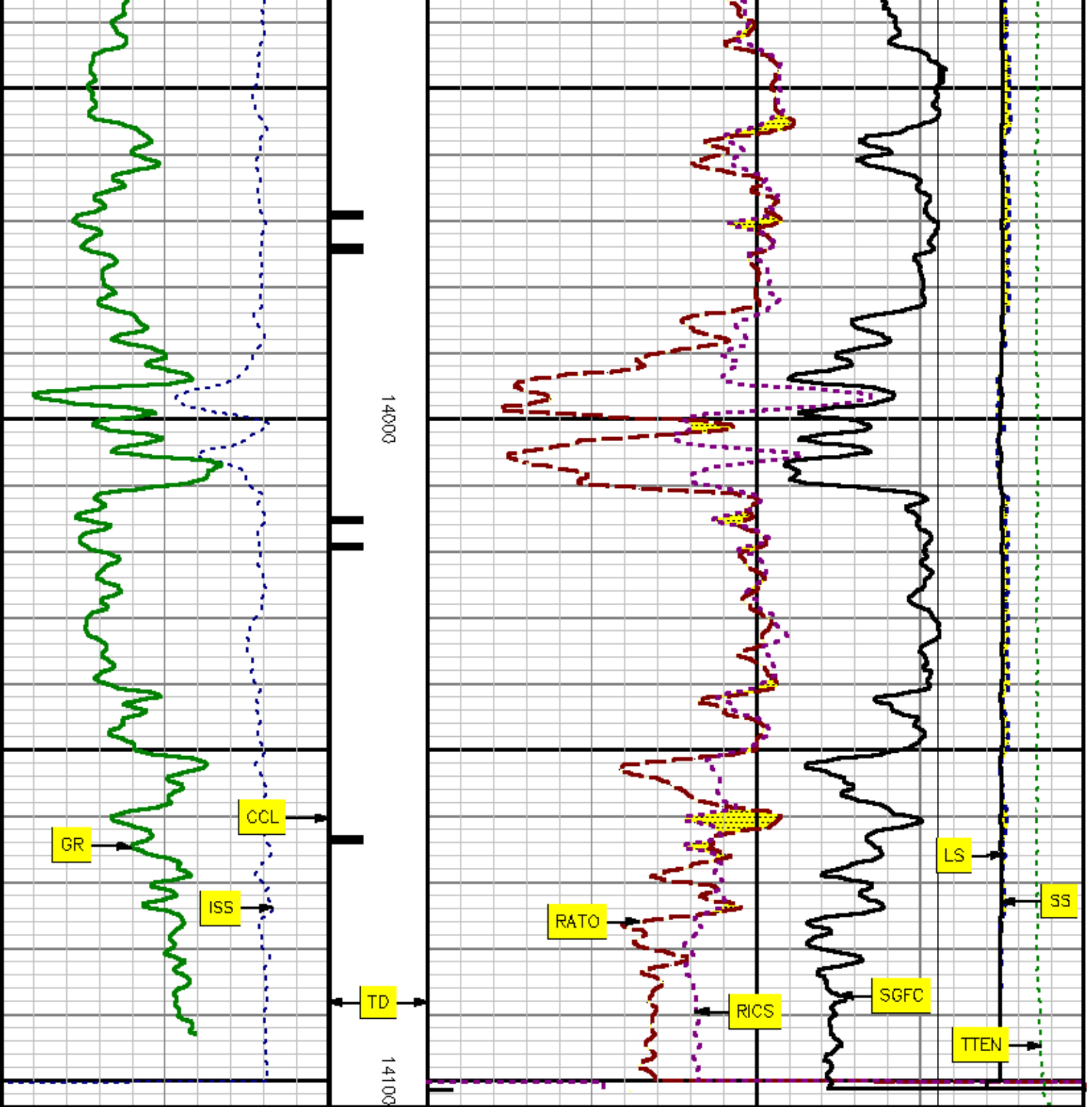




138000

139000





MD feet 1:240

REPEAT SECTION

SPL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
PNC Porosity	Borehole	Cased		10003.000	10220.405
PNC Porosity	Borehole Size	7.675	inch	10003.000	10094.000
PNC Porosity	Borehole Size	6.125	inch	10094.000	10220.405
PNC Porosity	Casing Size	7.000	inch	10003.000	10094.000
PNC Porosity	Casing Size	4.500	inch	10094.000	10220.405
PNC Porosity	Gas Filled	Non Gas Filled		10003.000	10094.000
PNC Porosity	Gas Filled	Non Gas Filled		10094.000	10220.405
PNC Porosity	Matrix	Sandstone		10003.000	10220.405

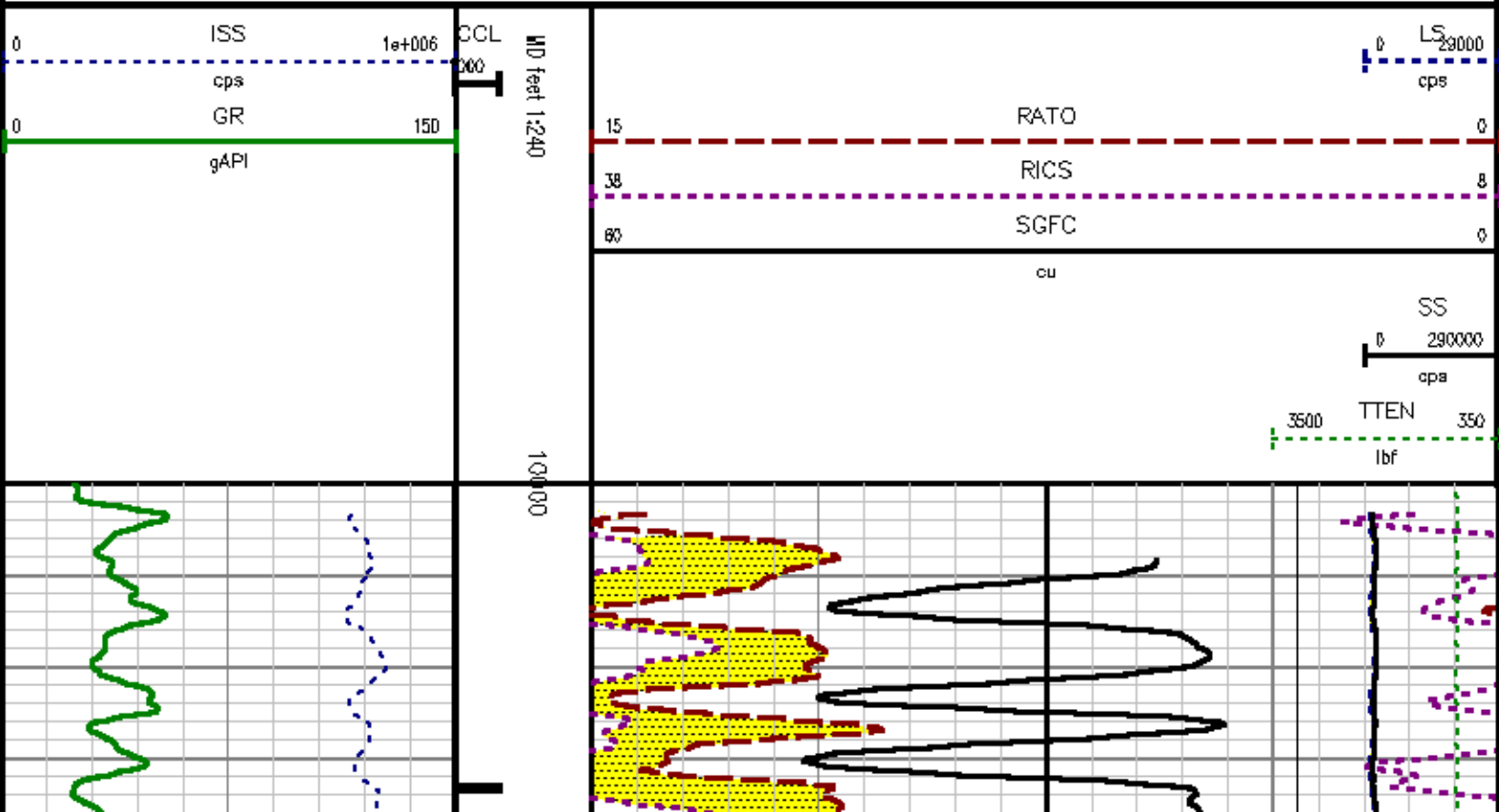
DEPTH OFFSETS

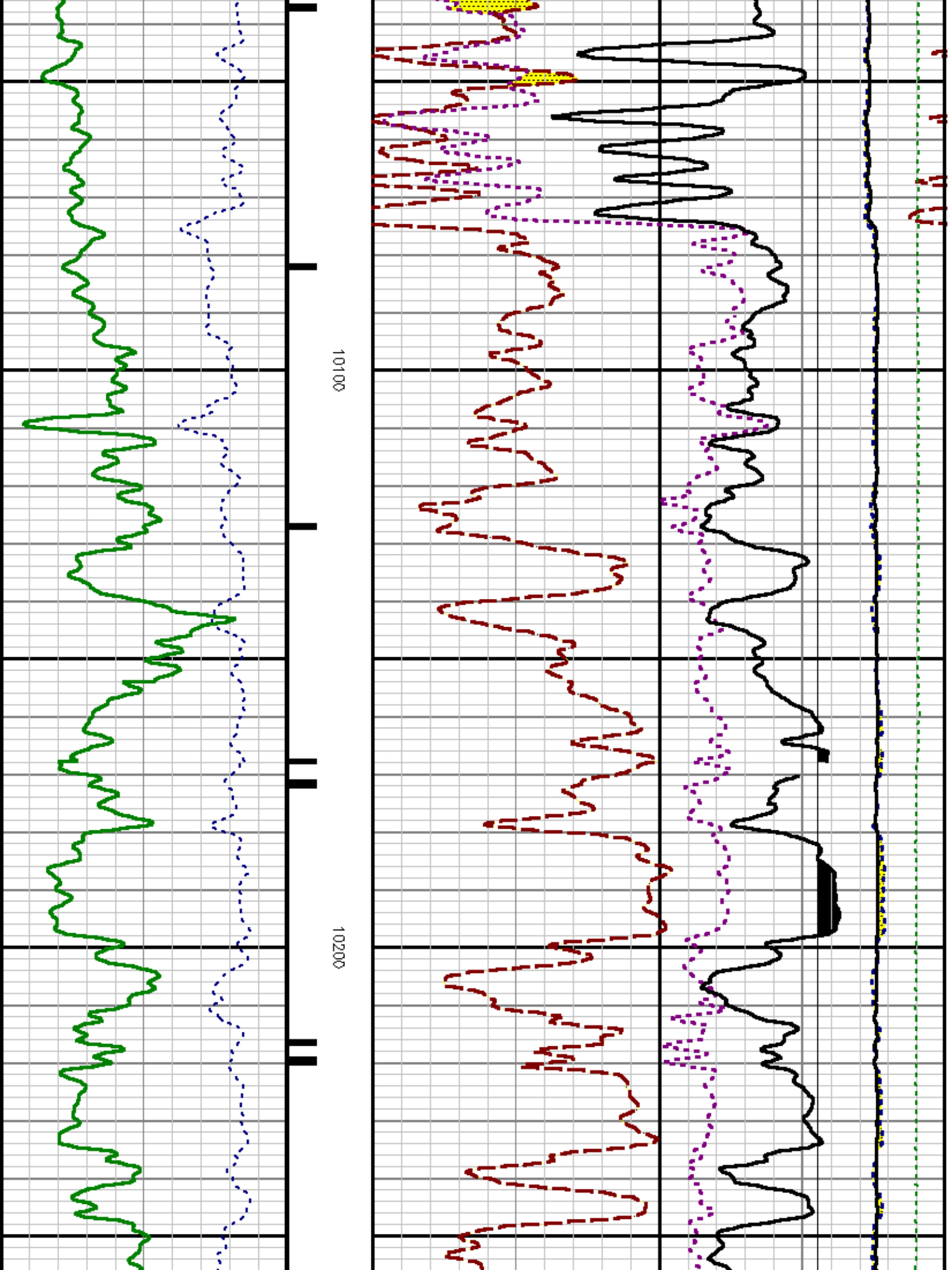
(for Acquired Curves)

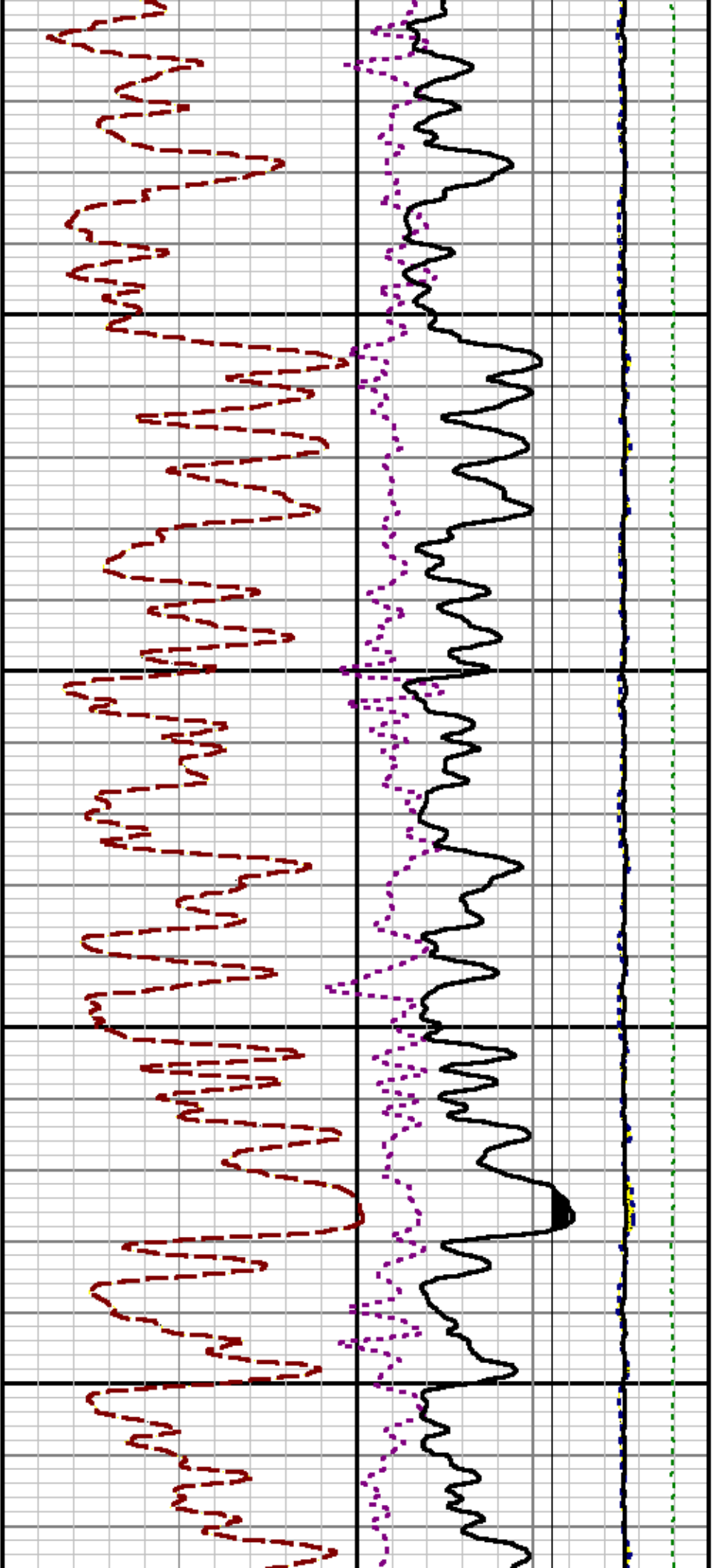
SERIES	DEPTH OFFSET	ACQUIRED CURVES					
8248EA	-14.478	FLTW					
8248EA	-12.478	GCL	CHV				
2812LA	-9.928	GR					
8281XA	-0.662	HVC300	SEQ3	AMA3	AML3	BKX	CXS
		GPT300	CPT302	CPT303	CPT304	ET3	IXS
		MCS3	MCS300	QCAL3	RGN3	RICK	SDA3
		SDL3	SGA3	SGL3	STA3	XS	ASPEC3
		AMB3	AMF3	CHF3	IXSC	IXSN	RAT023
		RICXC	RIN13C	RIN23	RIN23C	SD3D	SG3D
		SGB3	SGF3	WDTH3	CXSR	IXSR	XSR
		RICXR					
8281XA	-0.250	HVC200	SEQ2	AMA2	AMB2	AMF2	AML2
		BKL	CHF2	CLS	CPT200	CPT202	CPT203
		CPT204	ET2	ILS	LS	MCS2	MCS200
		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	HVC100	WV	SEQ	SEQ1	AMA1
		AMB1	AME1	AMF1	AML1	BKS	CHF1
		CSS	CORB	CORF	CPT100	CPT102	CPT102A

CPT1Q2B	CPT1Q2C	CPT1Q3	CPT1Q4	CPT1Q5	ET1
G1	G2	GE1S	GE2S	ISS	MCS1
MCS1Q0	QA1	QCAL1	QM1	RATO	RAT013
RBOR	RGN1	RICS	RIN	RONE	RPOR
RTWO	RIN13	RONE13	RTWO13	SALB	SC1
SDA1	SDL1	SGA1	SGB1	SGBC	SGE1
SGF1	SGFC	SGK1	SGL1	S5	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	WDTH1	RIC5C	C5SR	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 : EXXONMOBIL PRODUCTION COMPANY
Well : PCY 296-5A1
File Name : d:\well\data\alrpm\repeat1.xtf
Mode : PlotMgr 5.4.504
Interval : 10000.00 - 10500.00 feet UP
Created : 7/23/2011 10:30:09 AM

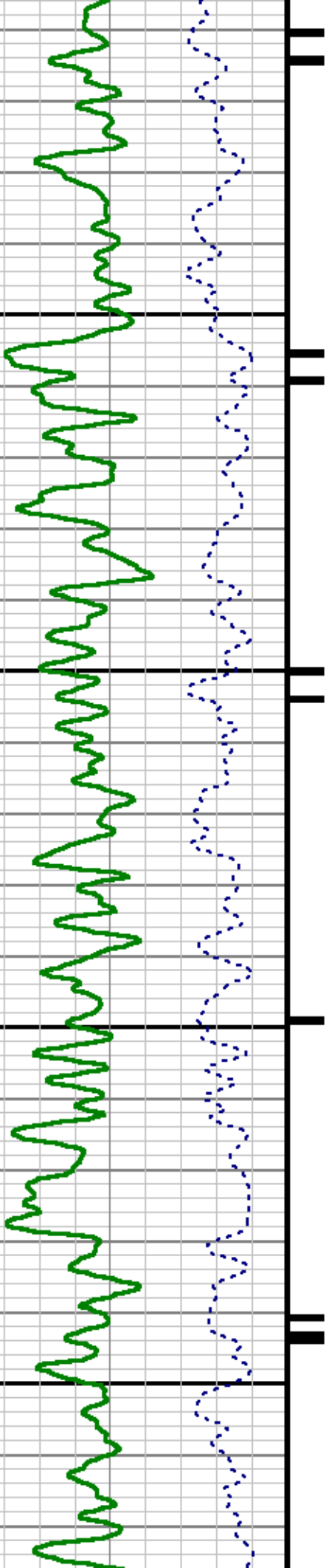


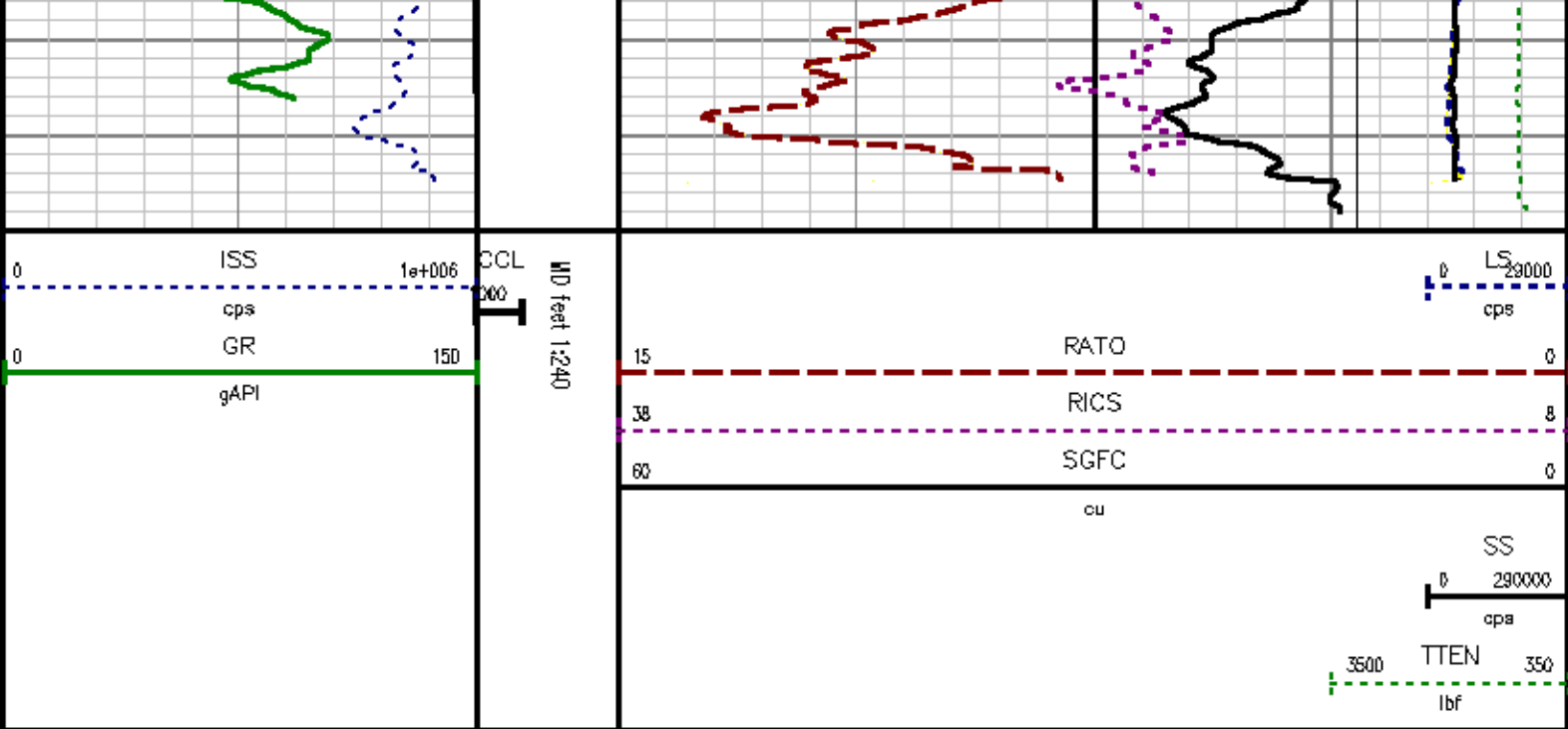




10300

10400





CALIBRATION SUMMARY

GAMMA RAY

Calibration File: C:\cgsa\calver\GR\636J1.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Jun 20 16:05:41 2011 TOOL SERIES: 2812LA ASSET: 636 SEQ: J1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K DA612	53.71	281.53	0.922	49.51	259.51	210.00

Verification File: C:\cgsa\calver\GR\636J1.VP

PRIMARY VERIFICATION

DATE/TIME PERFORMED: Mon Jun 20 16:10:11 2011 TOOL SERIES: 2812LA ASSET: 636 SEQ: J1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K DA612	54.56	280.29	0.922	50.29	258.36	208.07

PNC

PNC 30 CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Jul 11 10:31:18 2011 TOOL SERIES: B281XA ASSET: 753 SEQ: JU

Calibrator #

SHOP SHOP

Source #

B281AA 11710723

	ISS	Mtr Vltz (V)	SS Gain	LS Gain	XLS Gain	EA Temp (degF)	Sync Delay (usec)	RCAL
Raw Data	821620	128.00	2197.00	2383.00	2148.00	139.17	15.00	1.0441
Interpolated	1300000	147.41	2218.86	2379.82	2145.10			

	ISS	BKS	BKL	BKX	SGA 1	SDA 1	SGA 2	SDA 2
Raw Data	821620	6327.36	1022.64	167.43	25.81	0.13	24.26	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	821620	184376.05	27743.57	97232.09	34575.96	9479.68	58945.88	15230.59
Fit Quality %		1.86	1.80	1.12	1.07	1.77	1.02	1.74

	ISS	RBOR	RIN ISS/ILS	RIN13 ISS/IXS	RICS ISS/CSS	RATO SS/LS	RTWO SS2/LS	RONE CSS/CLS
Raw Data	821620	1.44	4.46	29.62	13.94	10.26	3.65	3.87
		1.42 1.45	3.55 5.21	22.20 32.10	10.98 16.34	10.06 11.10	3.57 3.95	3.76 4.22
Fit Quality %		0.07	1.23	1.24	0.21	0.93	0.93	0.95
Reduced	1415152	1.44	4.39	29.17	13.96	10.10	3.59	3.81
		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

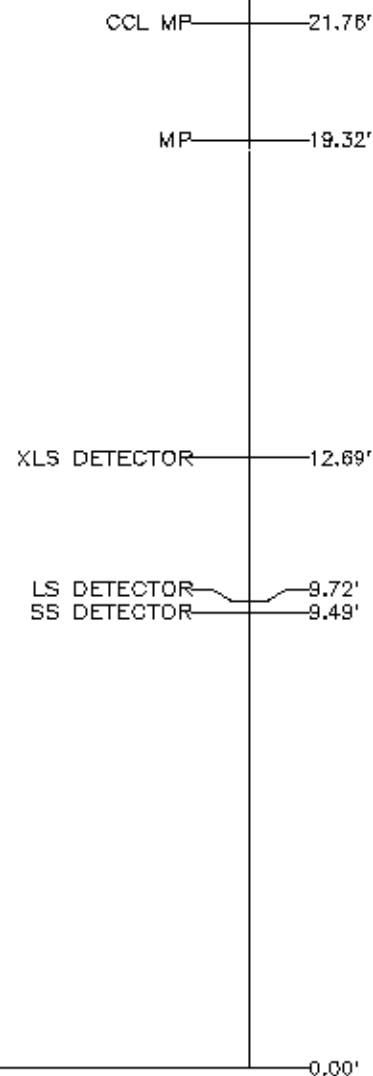
PCM POWER SUPPLY (8250EA)

29.85'

TELEMETRY / CCL (8248EA)

SONDEX GAMMA RAY (2812LA)

RESERVOIR PERFORMANCE MONITOR (8281XA)



Total Length: 29.85'
 Total Weight: Not Available
 Max Diameter: 0' 1.70"



Baker Atlas



Company EXXONMOBIL PRODUCTION COMPANY
 Well PCU 296-5A1
 Field PICEANCE CREEK
 County RIO BLANCO State COLORADO

File No: CH038997
 API No: 05103112480000

Location:

SHL: 809' FNL & 561' FNL

SEC: 5 TWP: 25 RGE: 96W

Elevations

KB 7338.2 ft
 DF 7338.2 ft
 GL 7308 ft