



RESERVOIR PERFORMANCE MONITOR

Baker Atlas

File No: EXXONMOBIL PRODUCTION COMPANY

Company Well: PCU 287-1181

Field: PICEANCE CREEK

County: RIO BLANCO State: COLORADO

API No: 02-103-11378-0000

Location: 364' FSL & 487' FEL

Other Services: BOND

SEC 11 TWP 2S RGE 9W

Permanent Datum: 0.L. _____ Elevation: 7131 ft
Log Measured From: K.B. _____ 28.5 ft Above P. D.
Drill Measured From: KELLY BUSHINGElevations: KB 7157.5 ft
DF 7159.5 ft
GL 7131 ft

Date	13-JAN-2010	
Run	ONE	
Service Order	578412	
Depth Driller	12988 ft	
Depth Logger	12822 ft	
Bottom Logged Interval	12822 ft	
Top Logged Interval	8956 ft	
Time Started	03:30	
Time Finished	13:30	
Operator Rig Time	10 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	N/A	
Reference Log Date	N/A	
Equipment No.	4271	VERNAL, UT
Recorded By	TIM KAUFF	
Witnessed By	MR. GREG AUTHENBURT	

- 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		
6.125 in		

Size	Weight	Grade	From	To
7 in	26 lbm/ft	P-110	SURFACE	8992 ft
4.5 in	15.1 lbm/ft	P-110	SURFACE	12889 ft

Remarks
THE CREW OF 4271 THANKS YOU.

Run	Trip	Tool	Series Number	Serial Number	Position
1	1	RPM	8281FA	10307727	FREE

1	1	RPM	8281PA	10402774	FREE
1	1	RPM	8281EA	10307727	FREE
1	1	GAMMA RAY	8282XA	10485470	FREE
1	1	CCL	8248EA	10314810	FREE
1	1	PCW	8250EA	10154170	FREE

*MAIN SECTION
IN PNC 3-D MODE*

SPL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
PNC Porosity	Borehole	Cased		6953.250	12840.750
PNC Porosity	Borehole Size	9.875	Inch	6953.250	8992.000
PNC Porosity	Borehole Size	6.125	inch	8992.000	12840.750
PNC Porosity	Casing Size	7.000	inch	6953.250	8992.000
PNC Porosity	Casing Size	4.500	inch	8992.000	12840.750
PNC Porosity	Gas Filled	Non Gas Filled		6953.250	8992.000
PNC Porosity	Gas Filled	Non Gas Filled		8992.000	12840.750
PNC Porosity	Matrix	Sandstone		6953.250	12840.750

DEPTH OFFSETS
(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
8248EA	-15.320	FLTM					
8248EA	-13.320	CCL	CHV				
8262XA	-10.189	GR					
8281XA	-0.662	HVC300	SEQ5	AMA3	AML3	BKX	CXS
		CPT300	CPT302	CPT303	CPT304	ETS	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
		RICKR					
8281XA	-0.250	HVC200	SEQ2	AMA2	AMB2	AMF2	AML2
		PKL	QUE3	SLC	OPT300	OPT300	OPT307

8281XA

0.000

BKL	CHF2	CLS	CPT1200	CPT1202	CPT1203
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		
CPRS	HVC100	WV	SEQ	SEQ1	AMA1
AMB1	AME1	AMF1	AML1	BKS	CHF1
CSS	CORB	QGRF	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	RPCR
RTW0	RIN13	RONE13	RTW013	SALB	SC1
SDA1	SDL1	SGA1	GB1	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	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	RICSC	CSSR	G1R
G2R	ISSR	SSR	SS2R	RATOR	RAT013R
RBORR	RICSR	RINR	RIN13R	RONER	RPCRR
RTWOR					
SYSTEM	0.000	TEN	TTEN		

Created by : RPW9, v5.0.0.0

Plotted by : PlatMgr, v5.4.504

Company : EXXONMOBIL PRODUCTION COMPANY

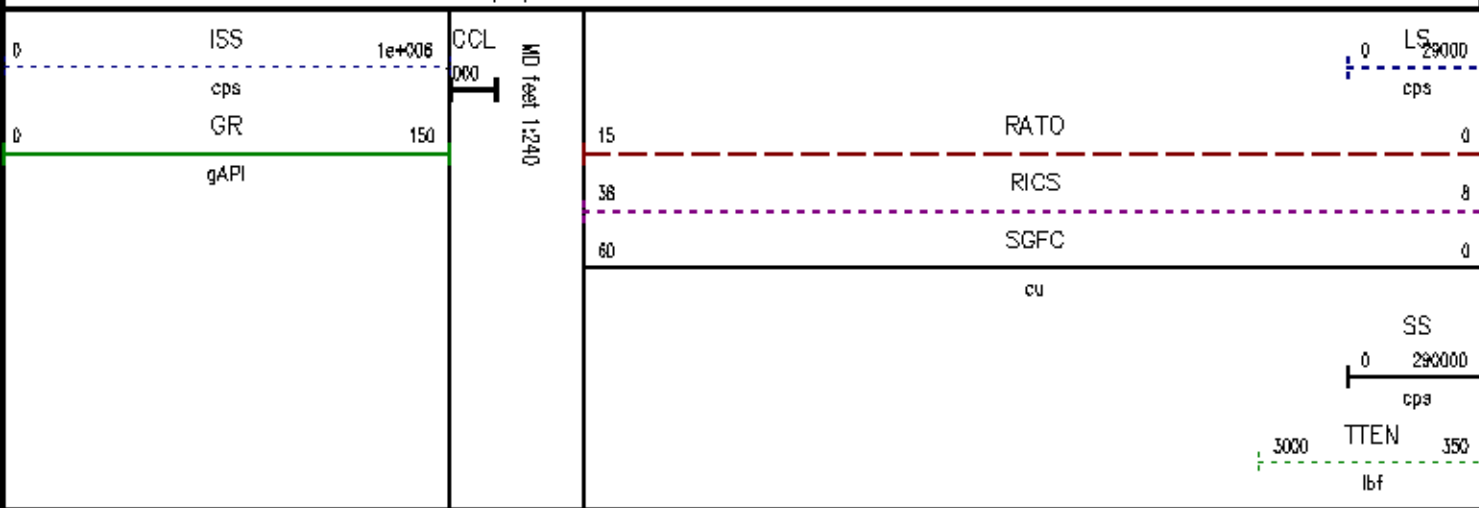
Well : PCU 297-11B1

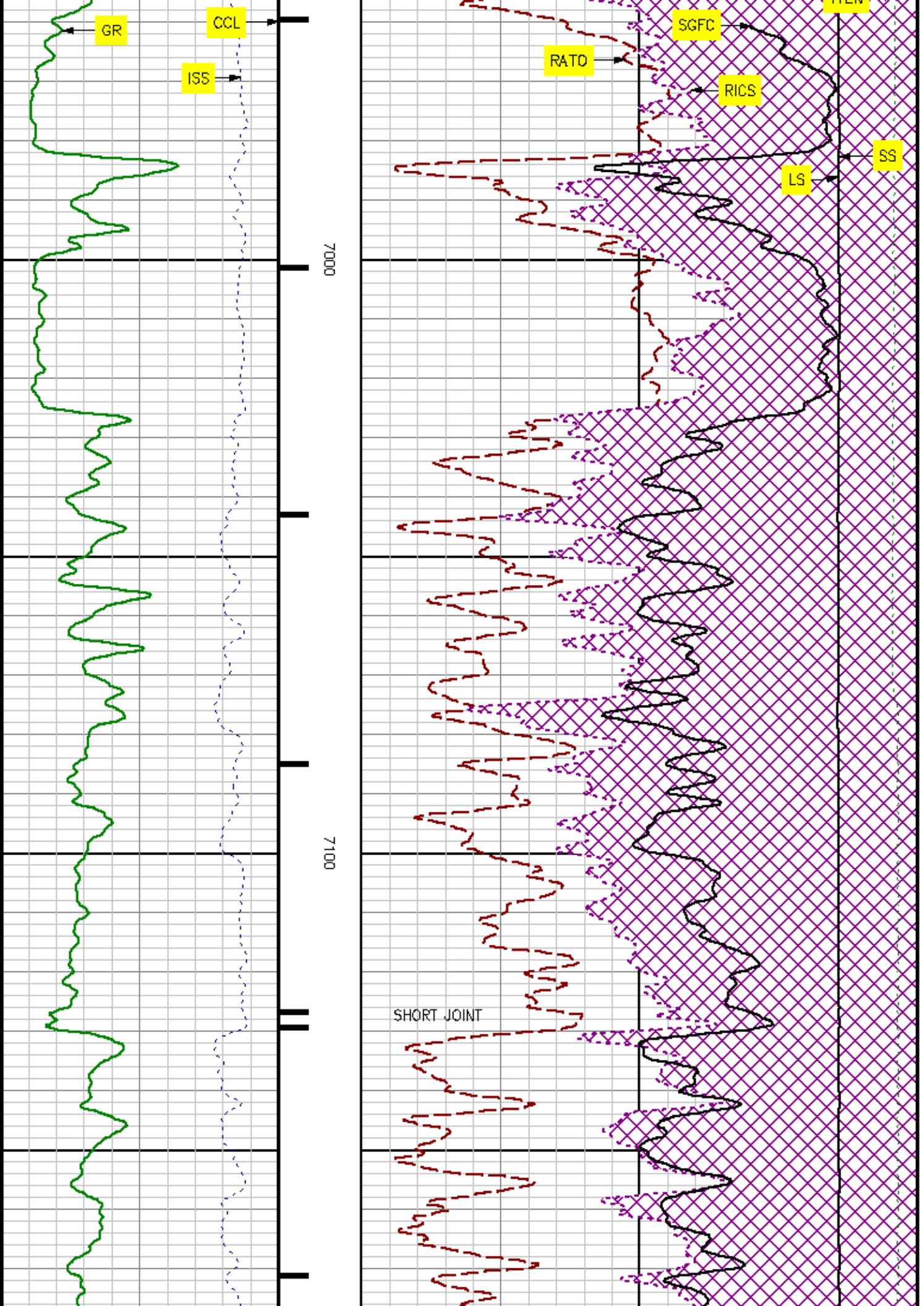
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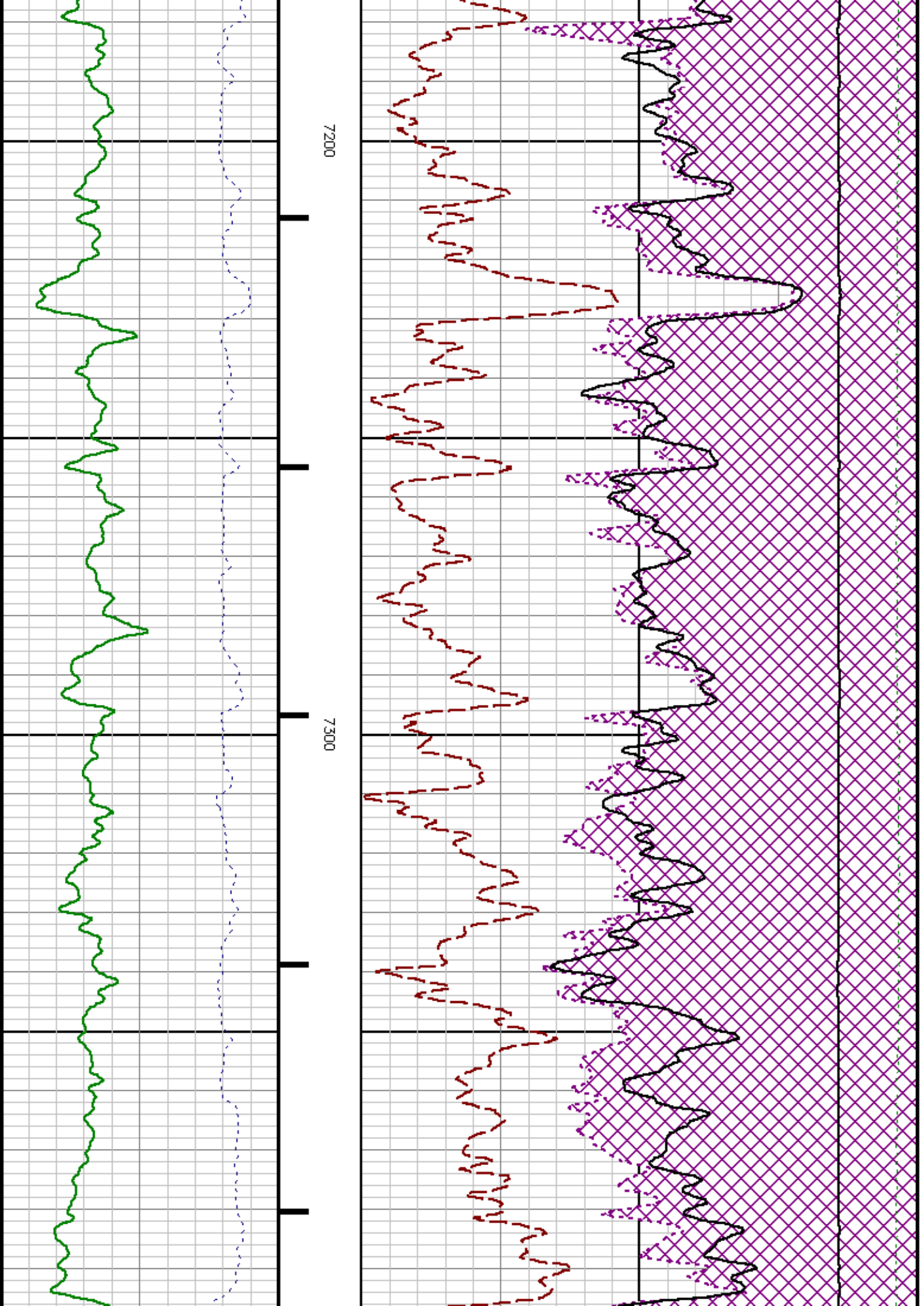
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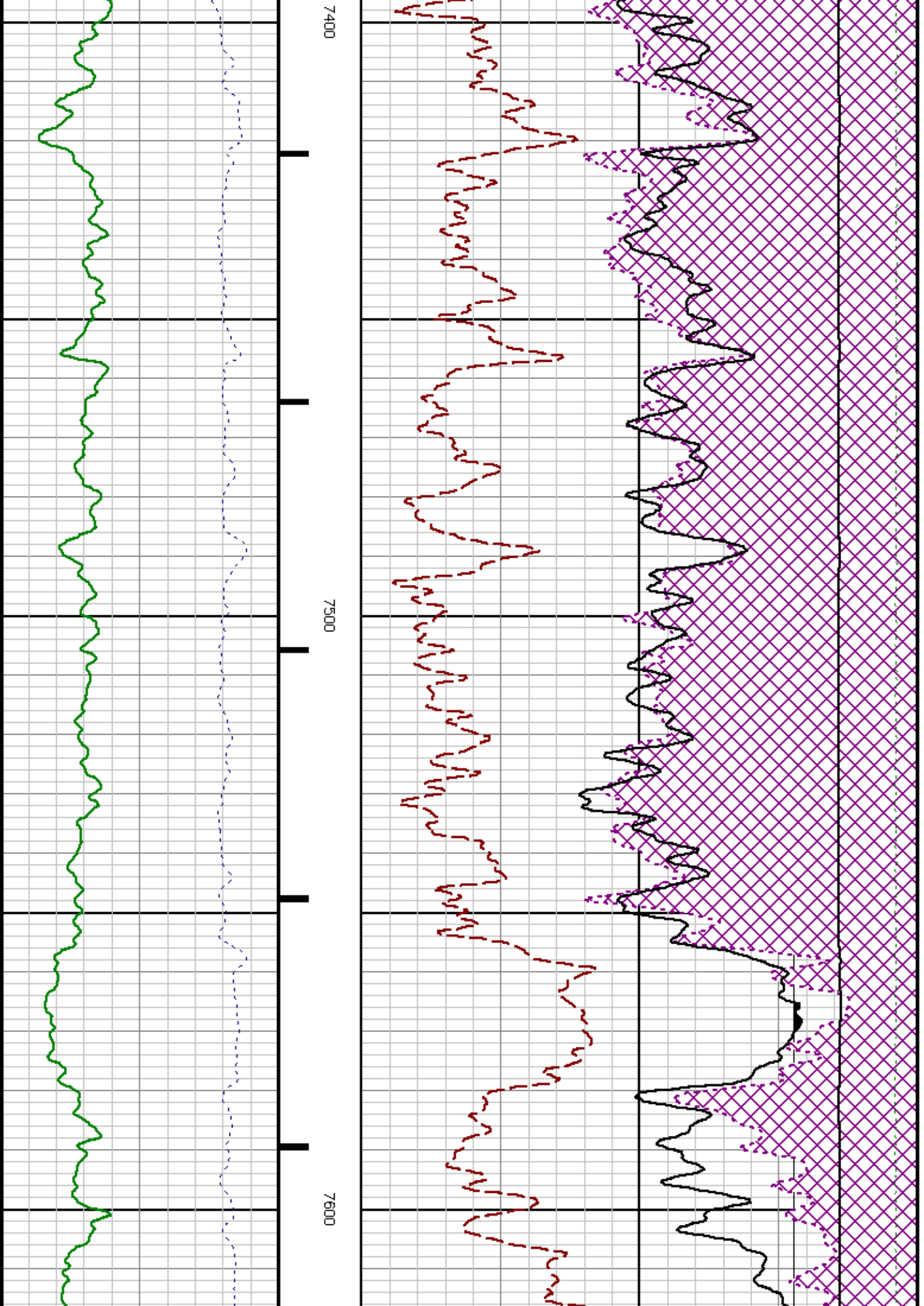
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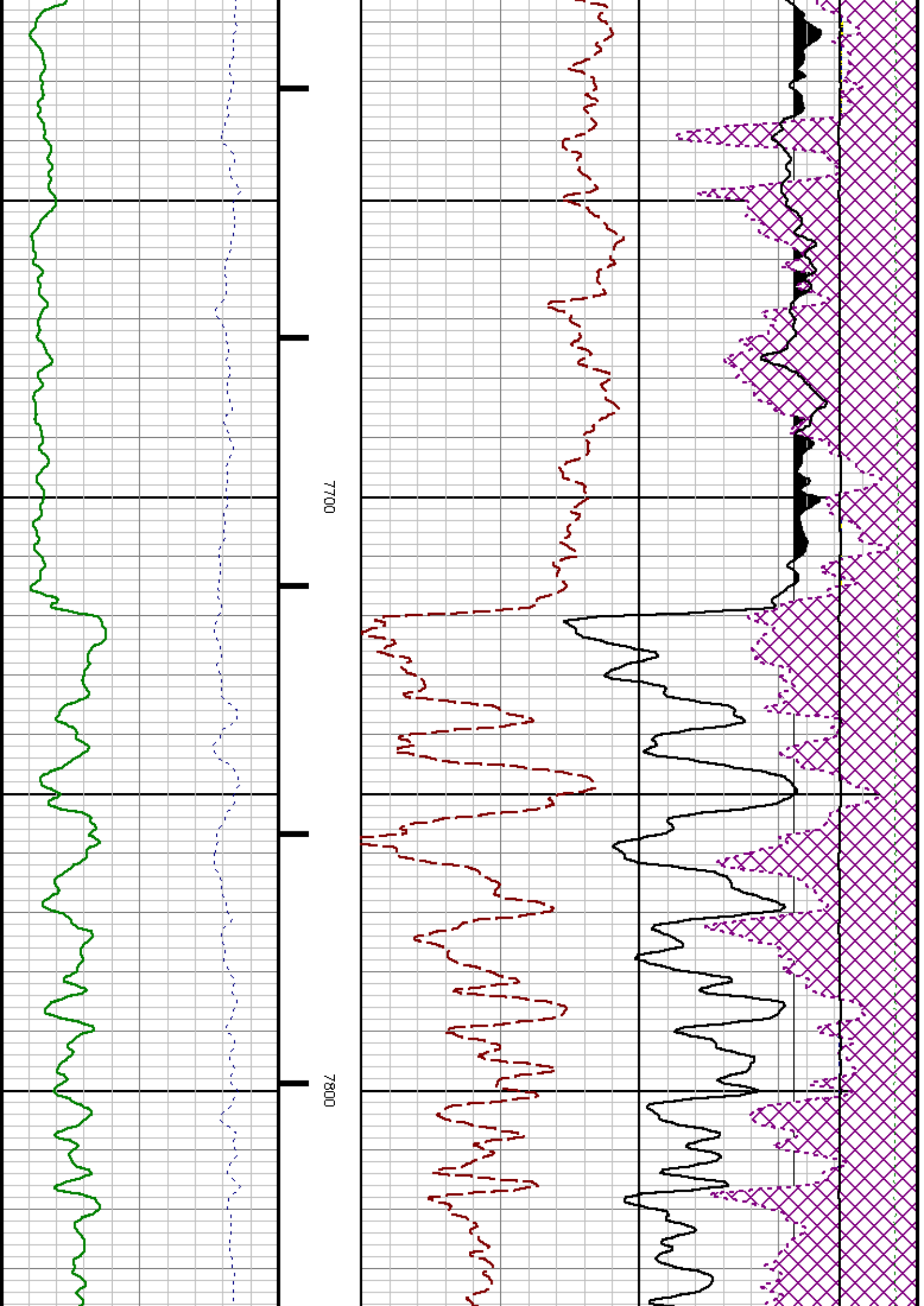
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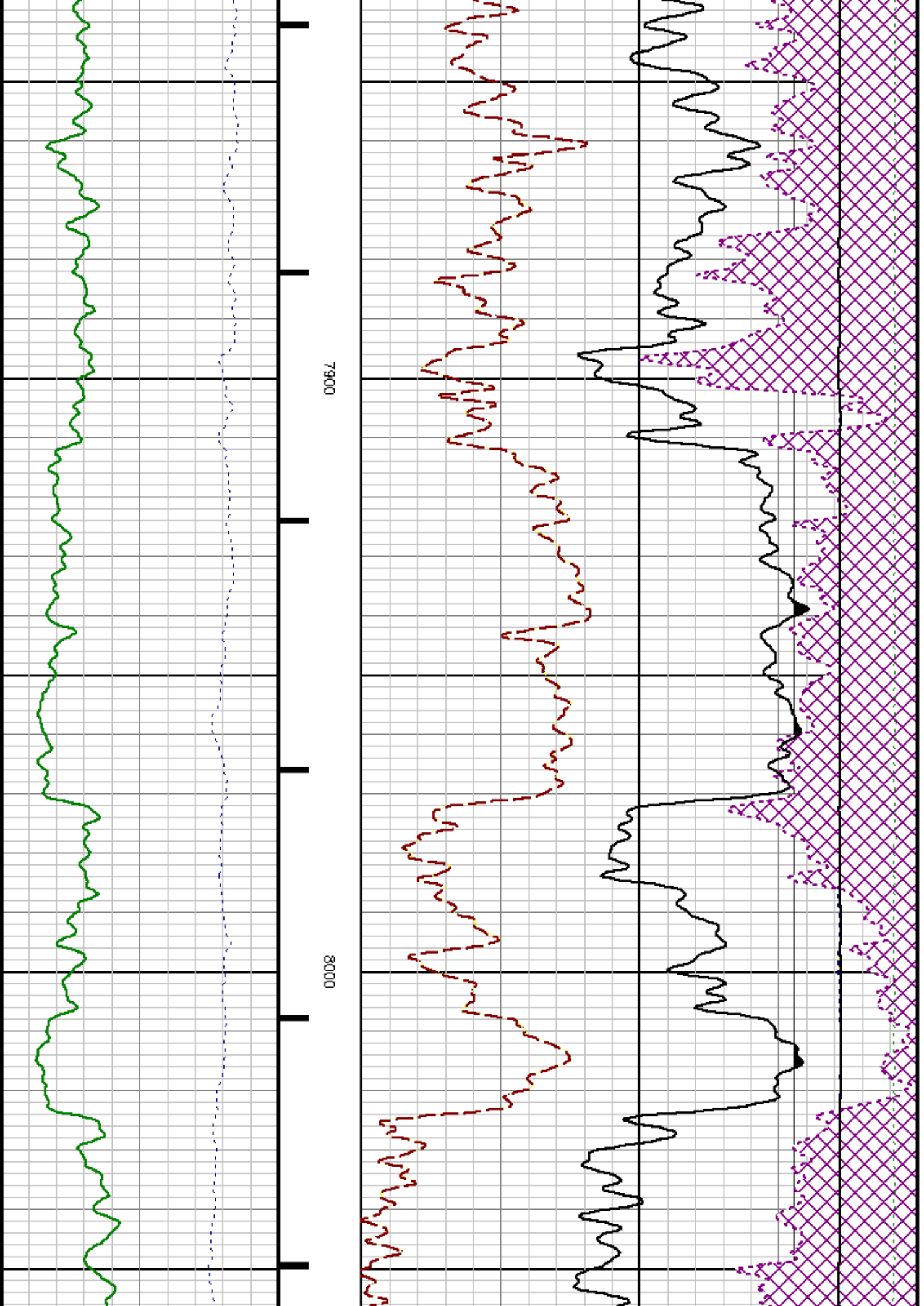


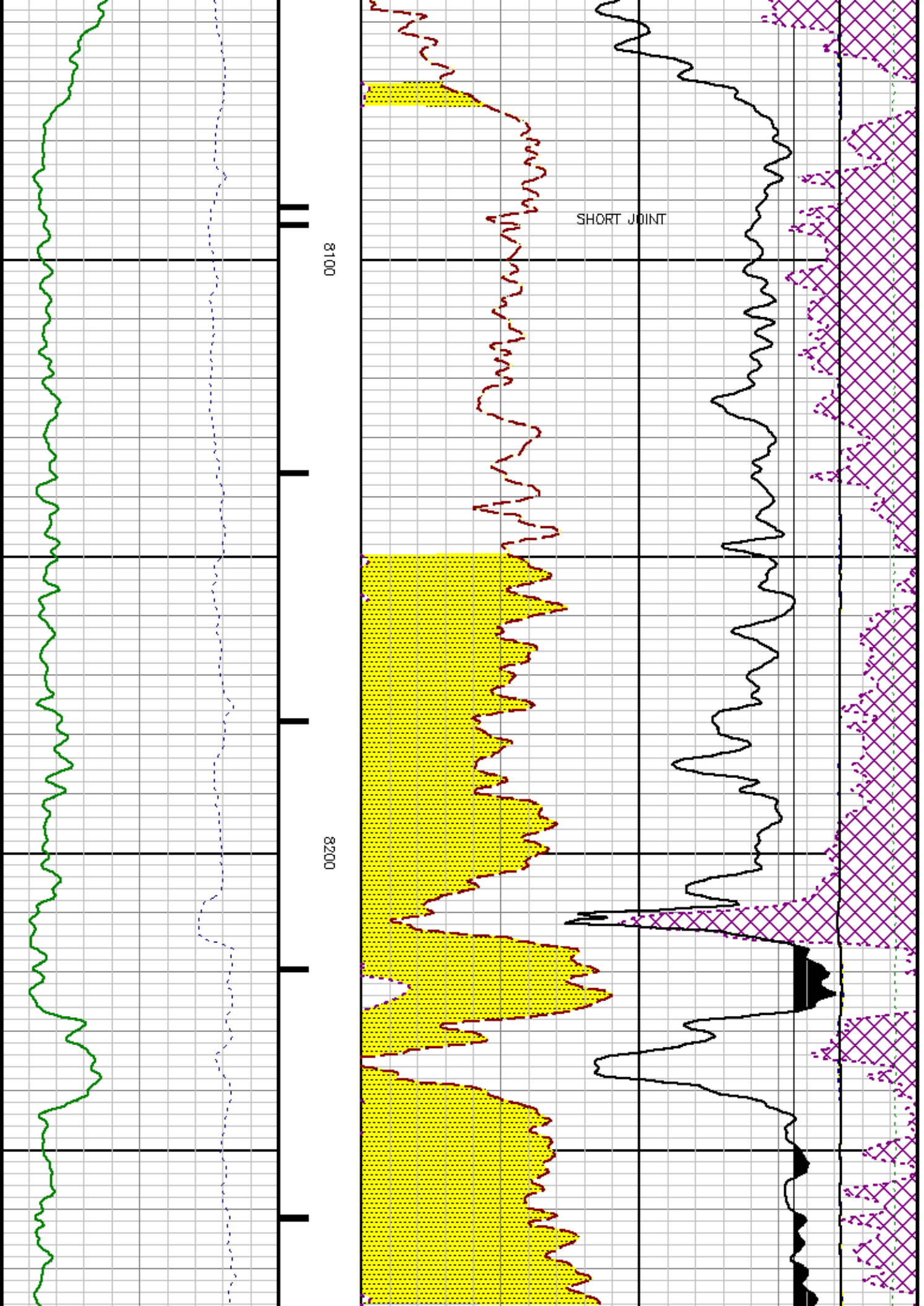


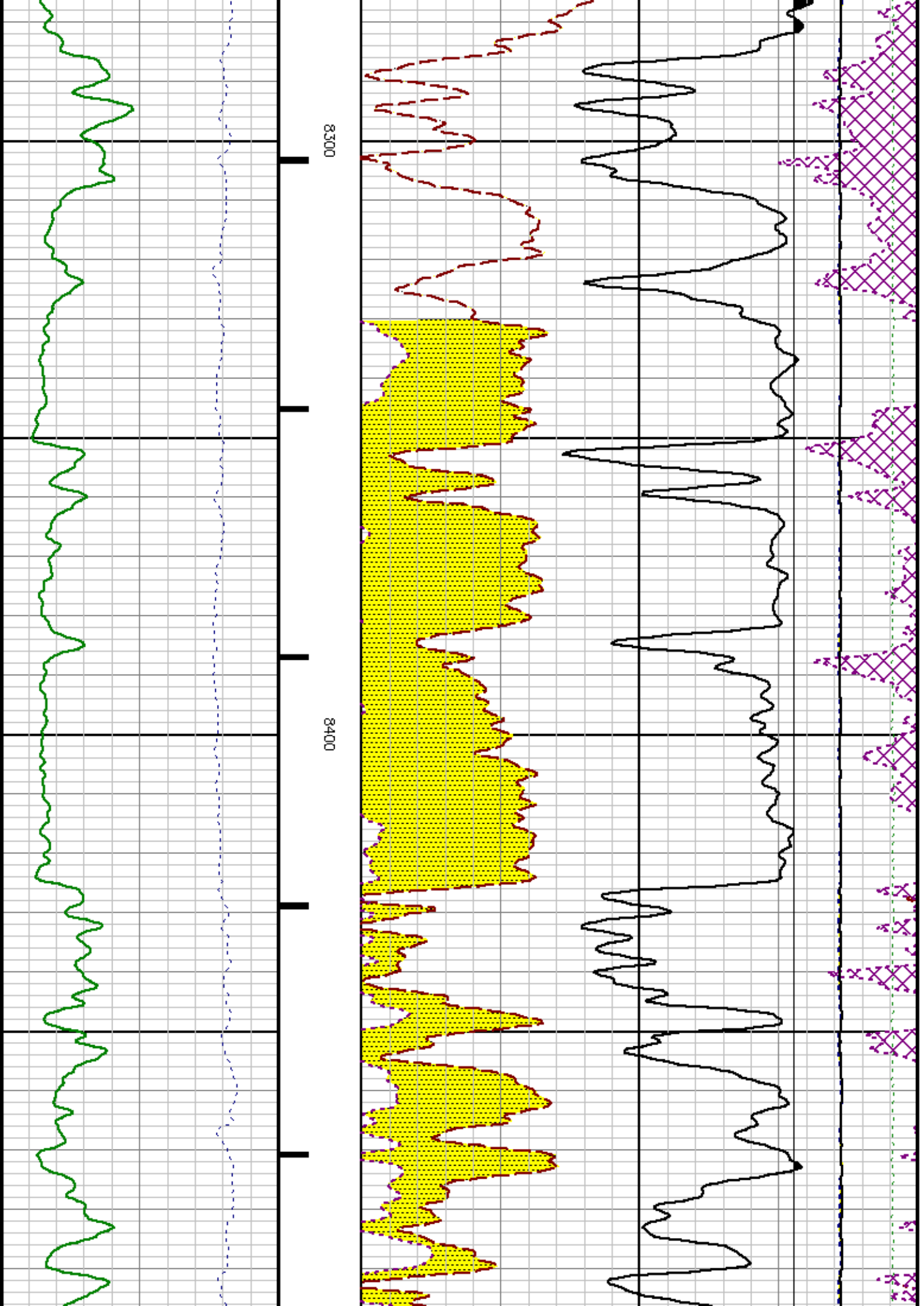


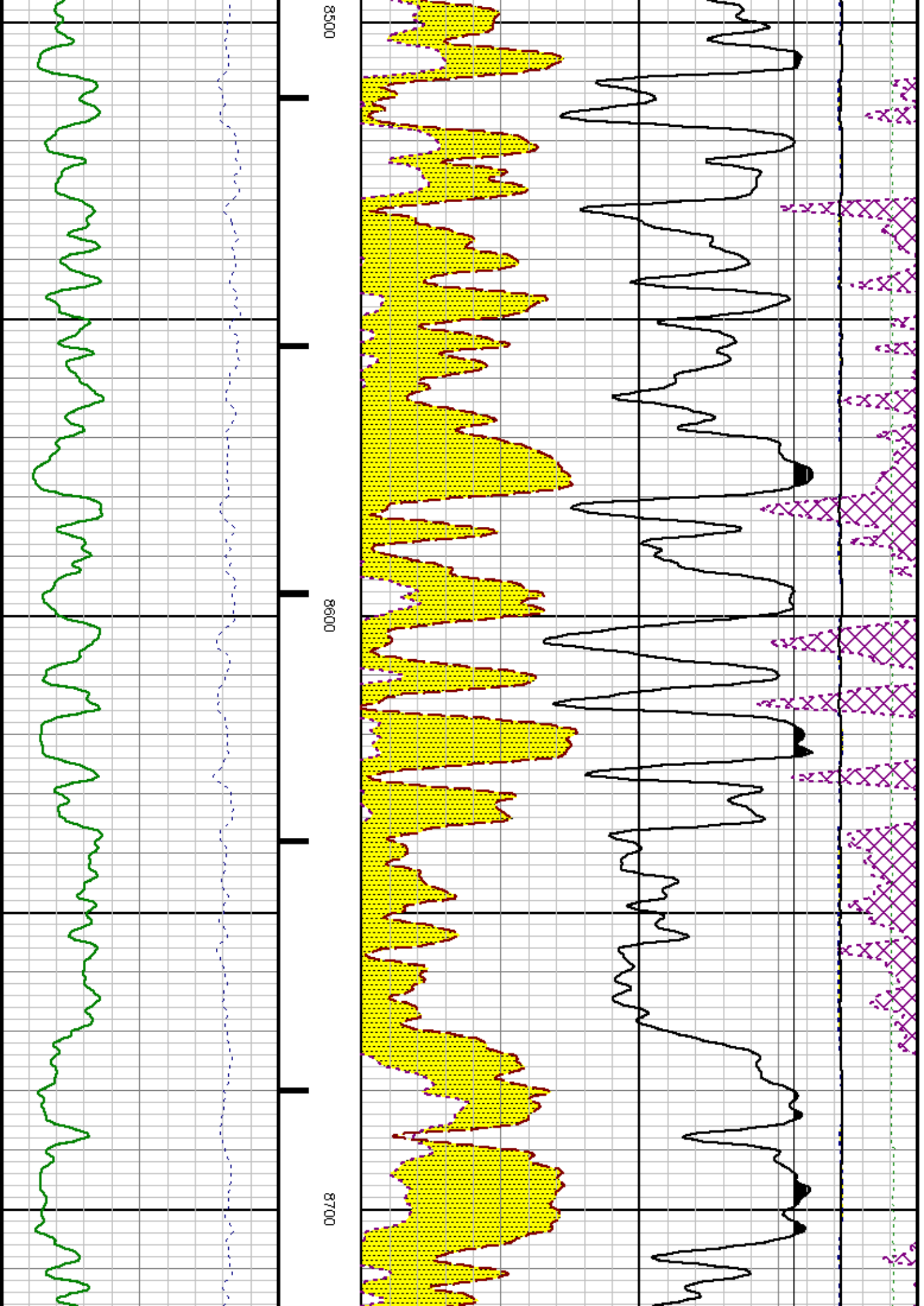


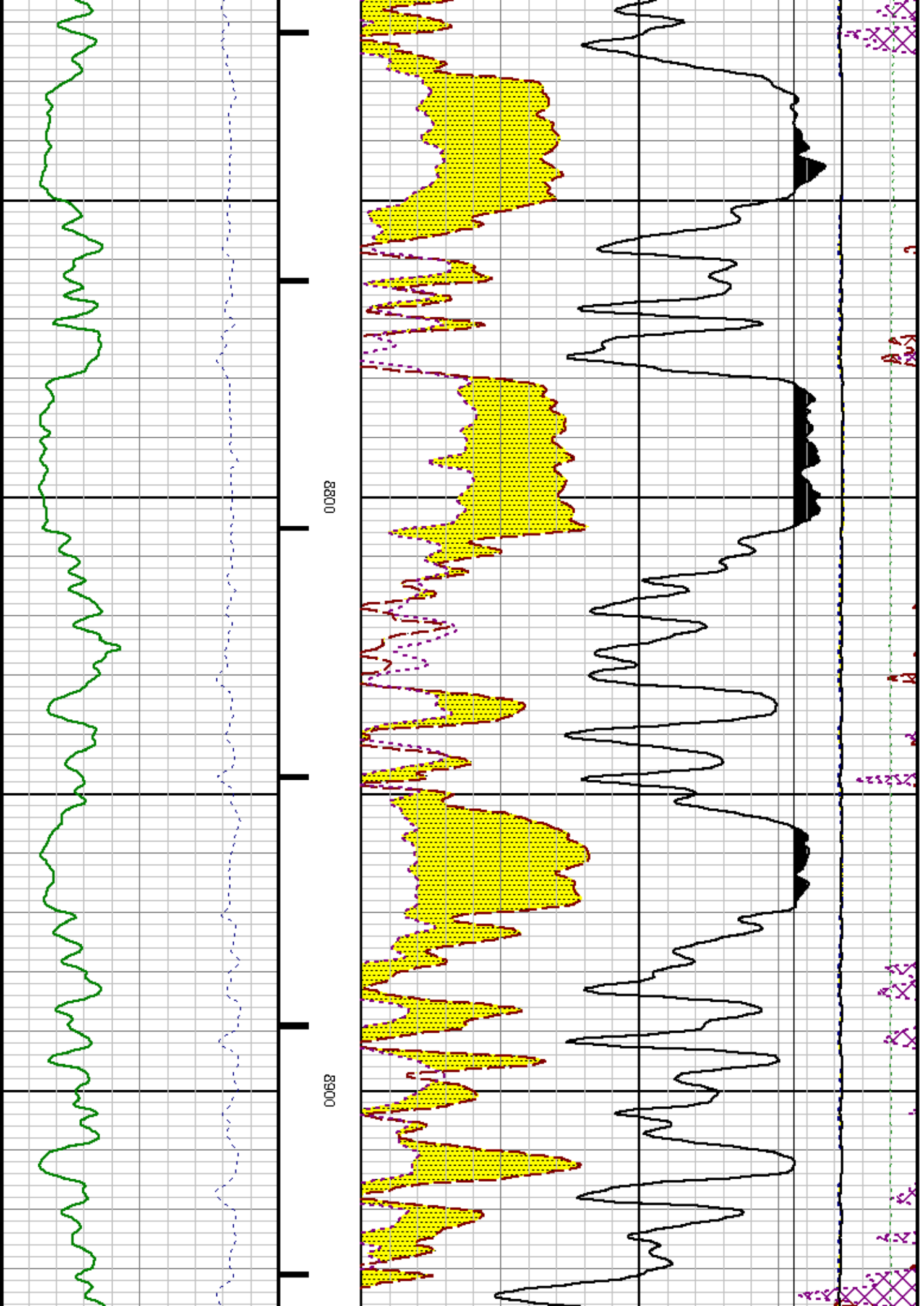


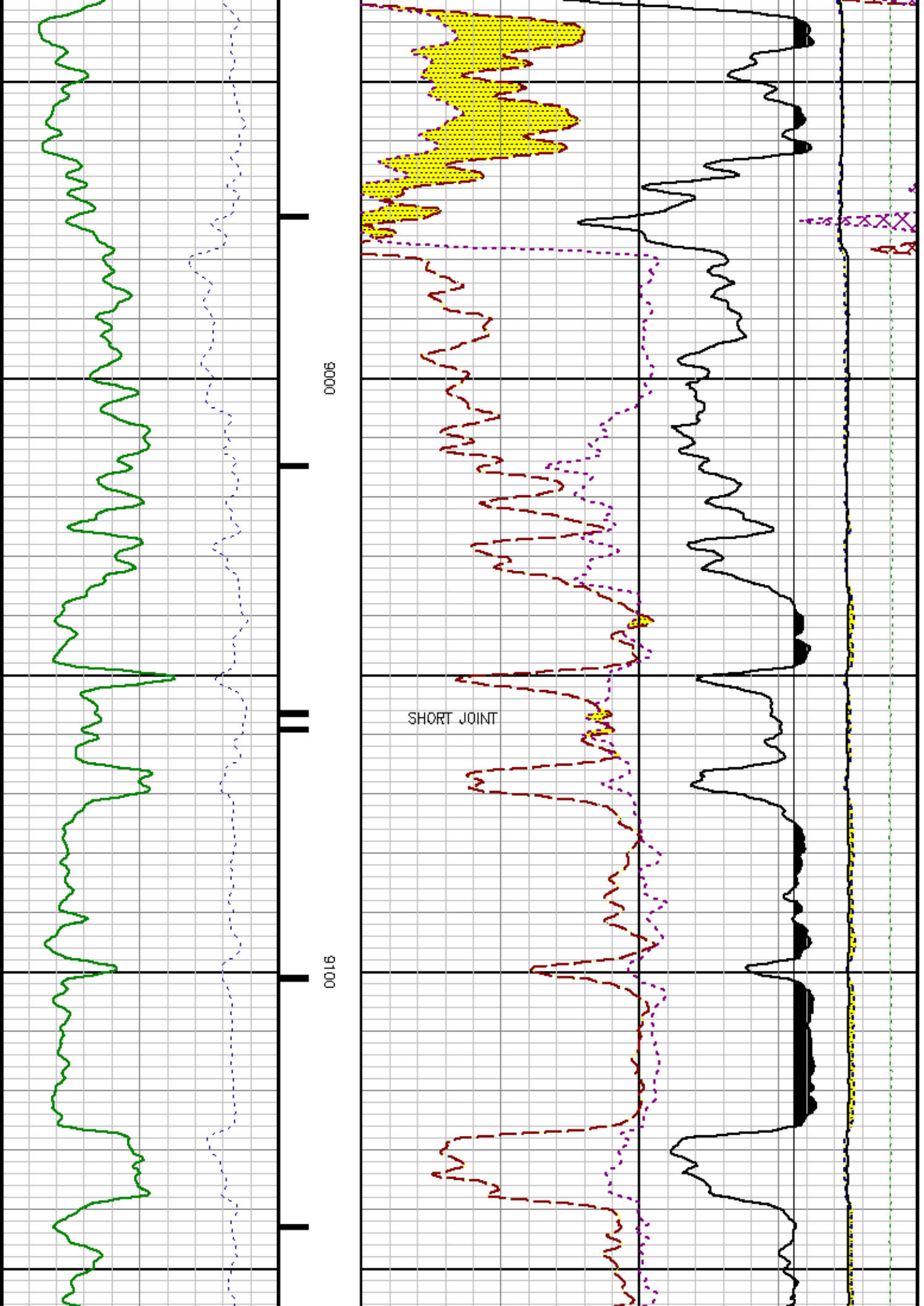


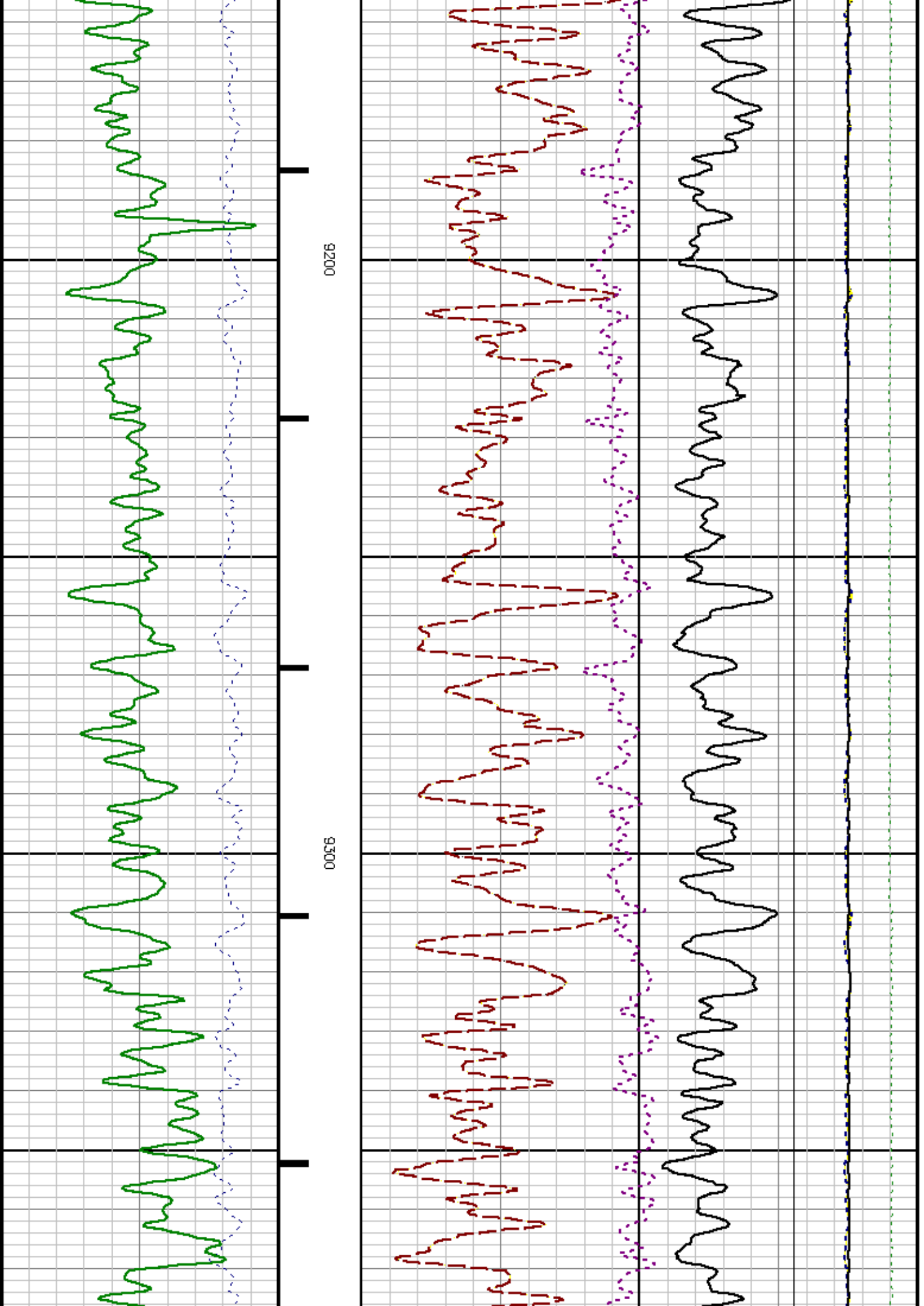


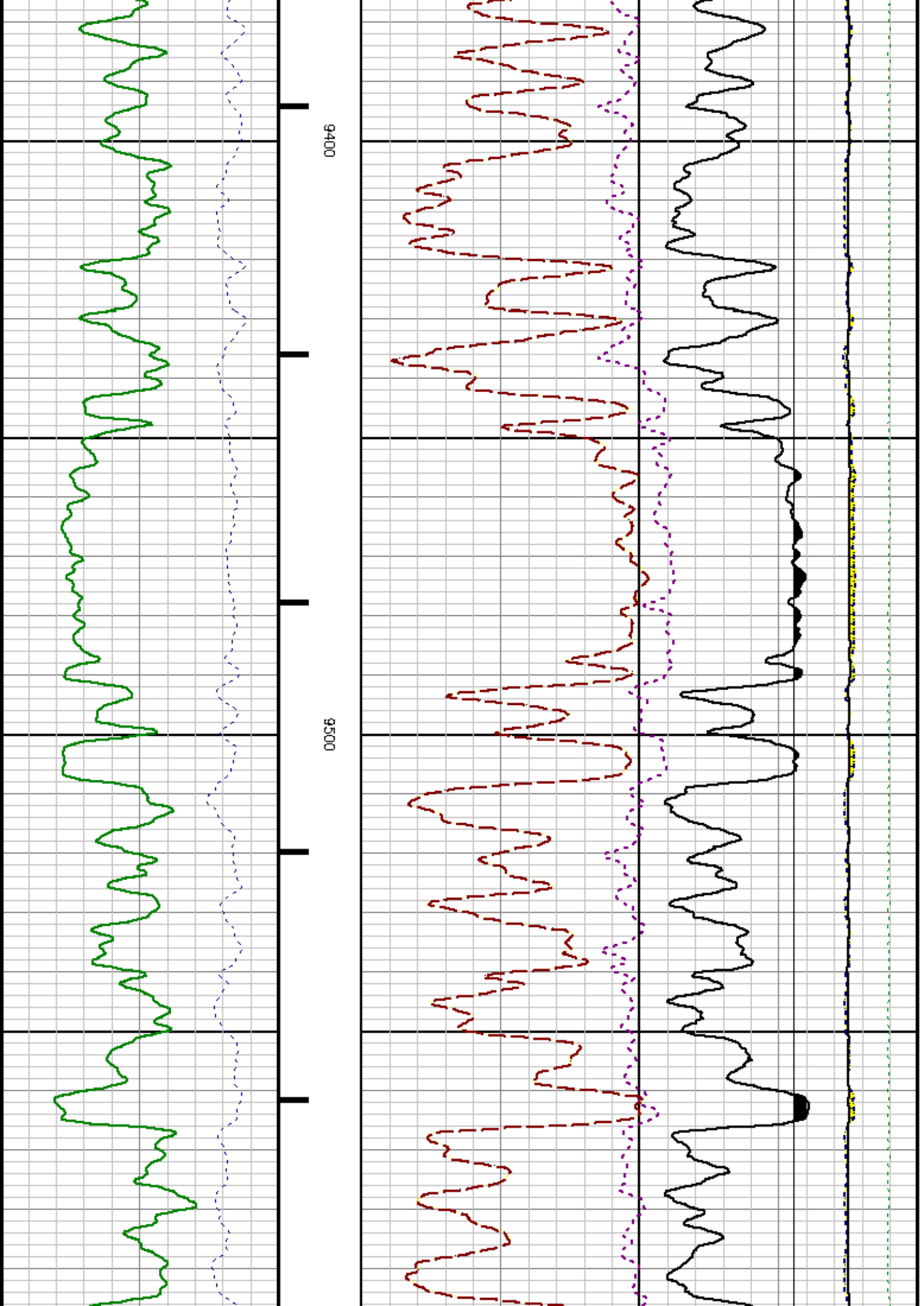


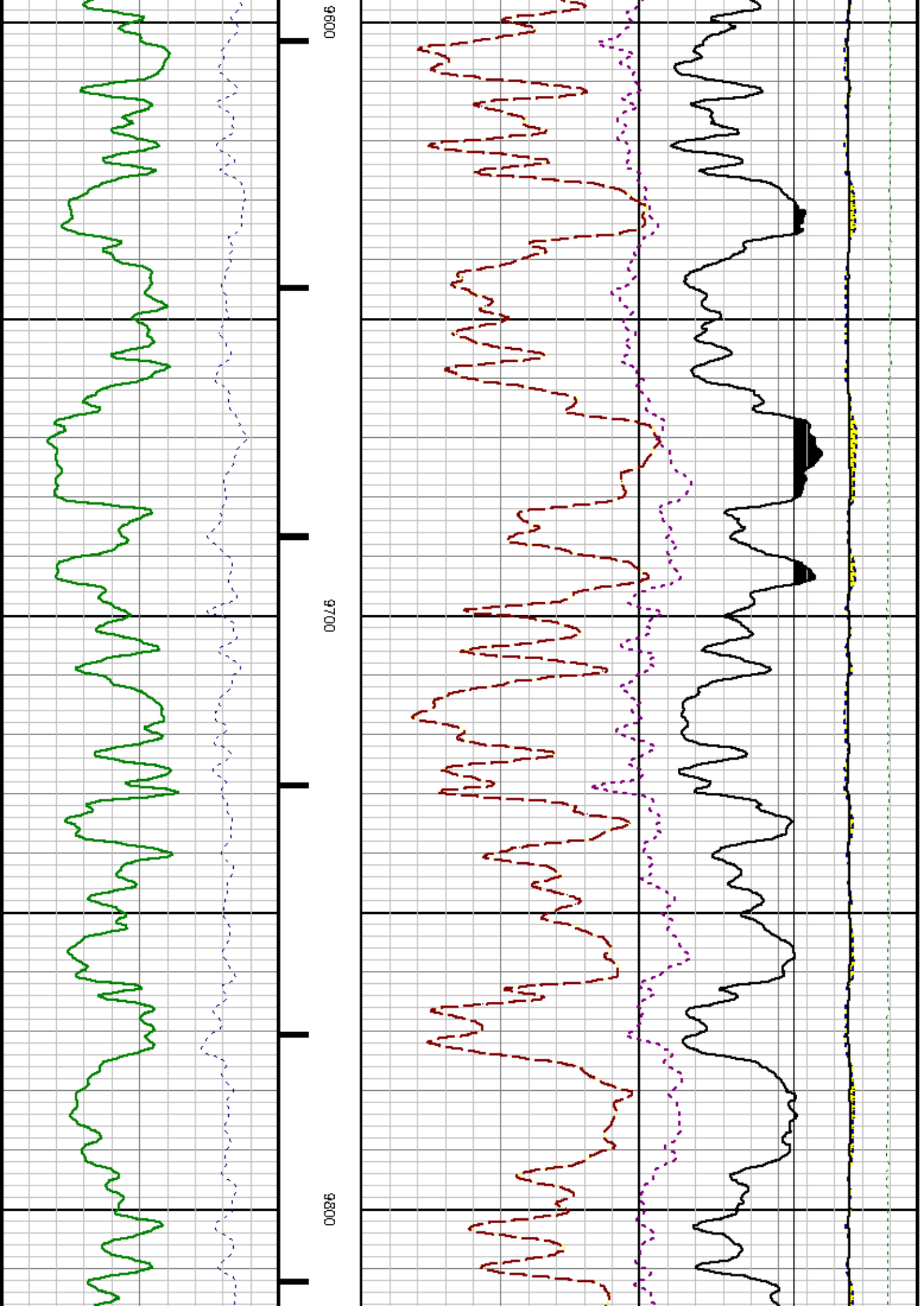


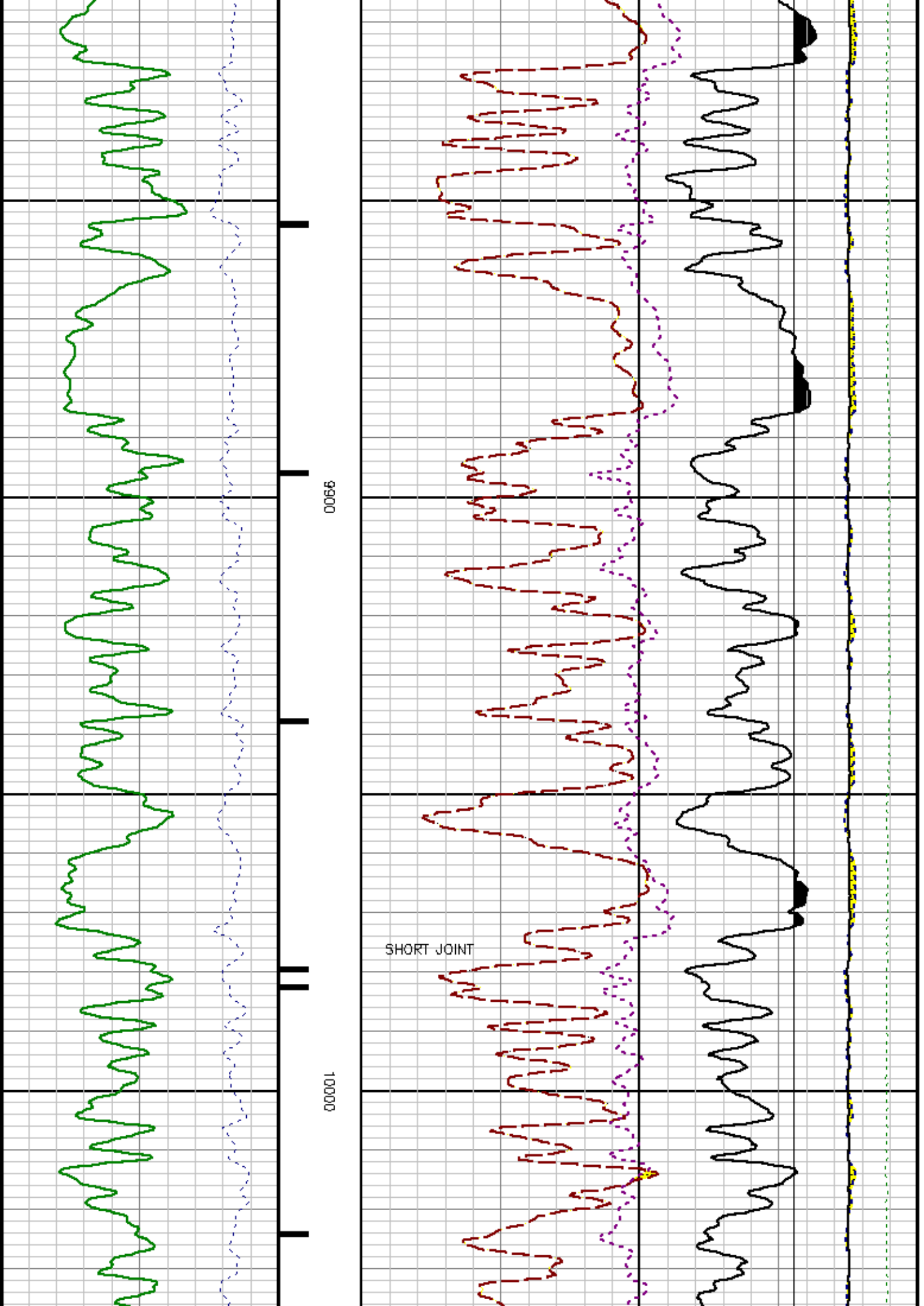


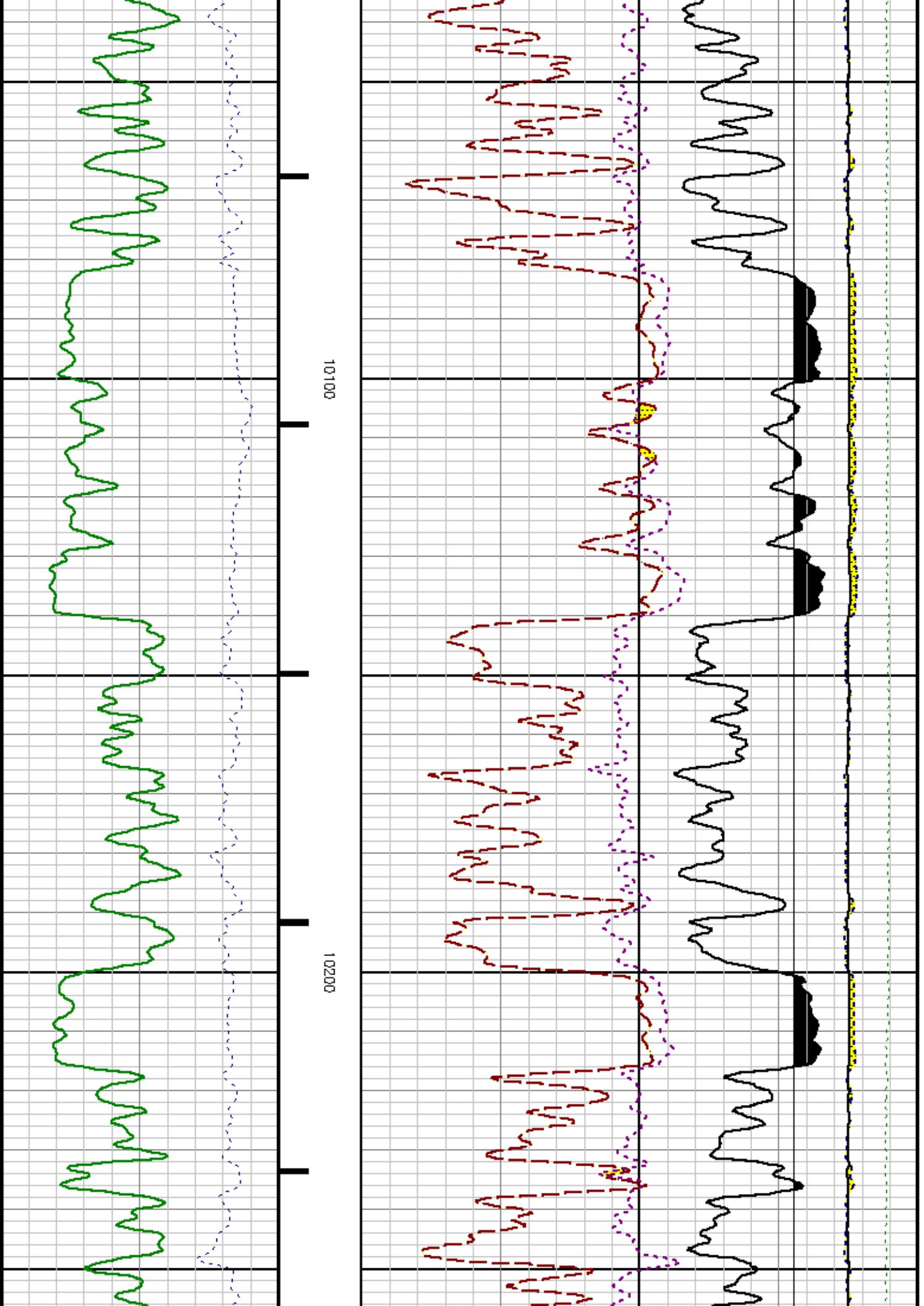


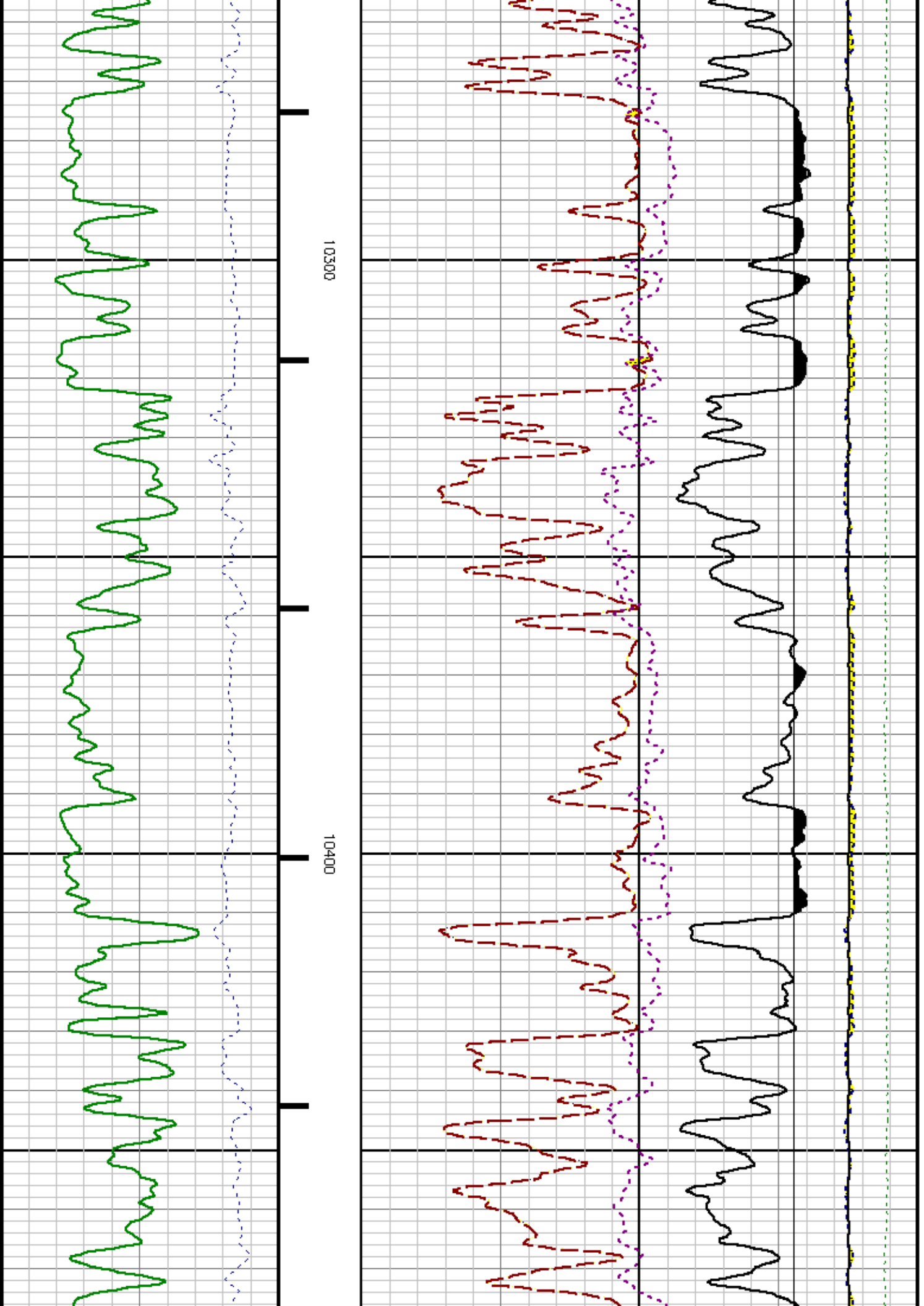


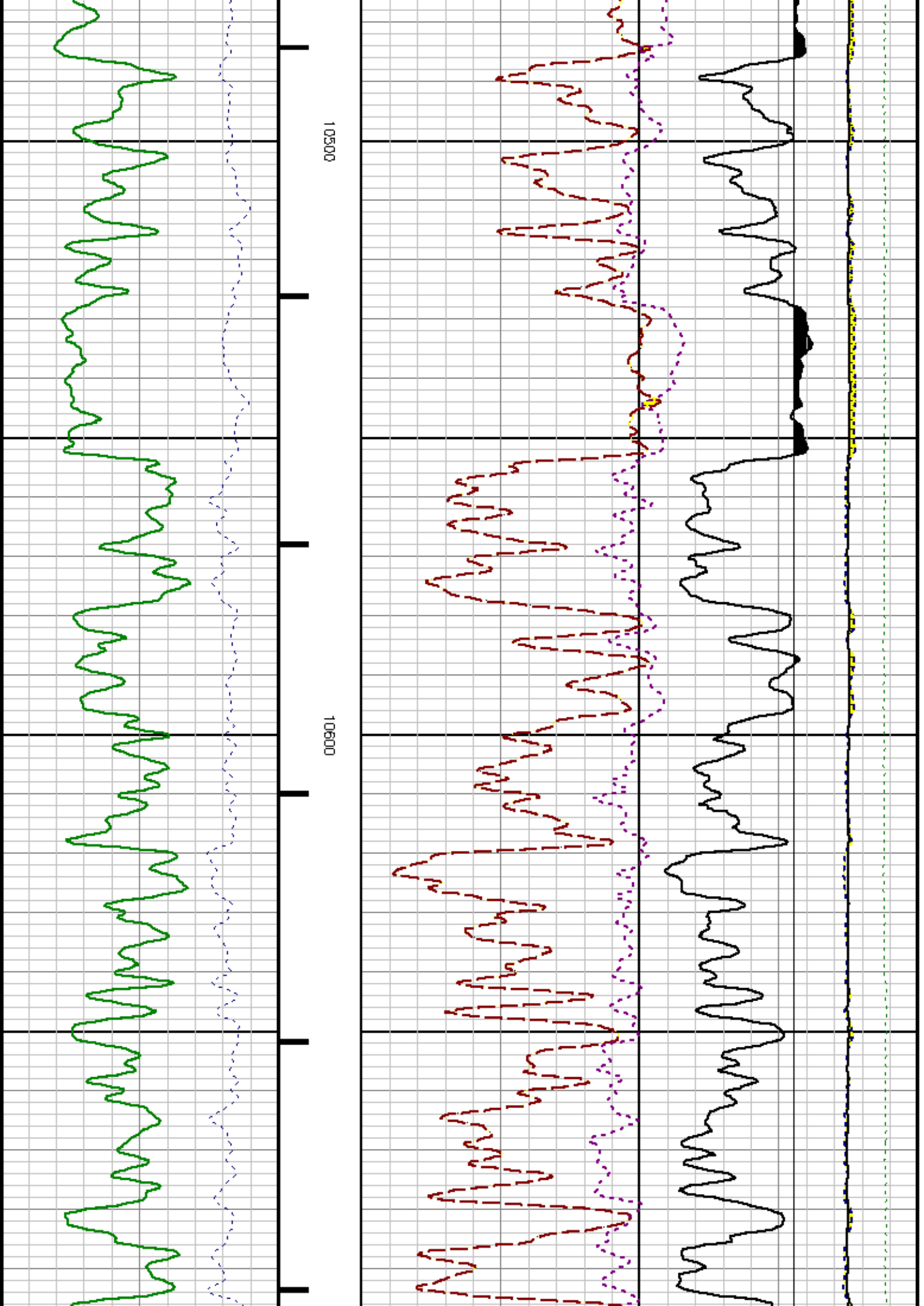


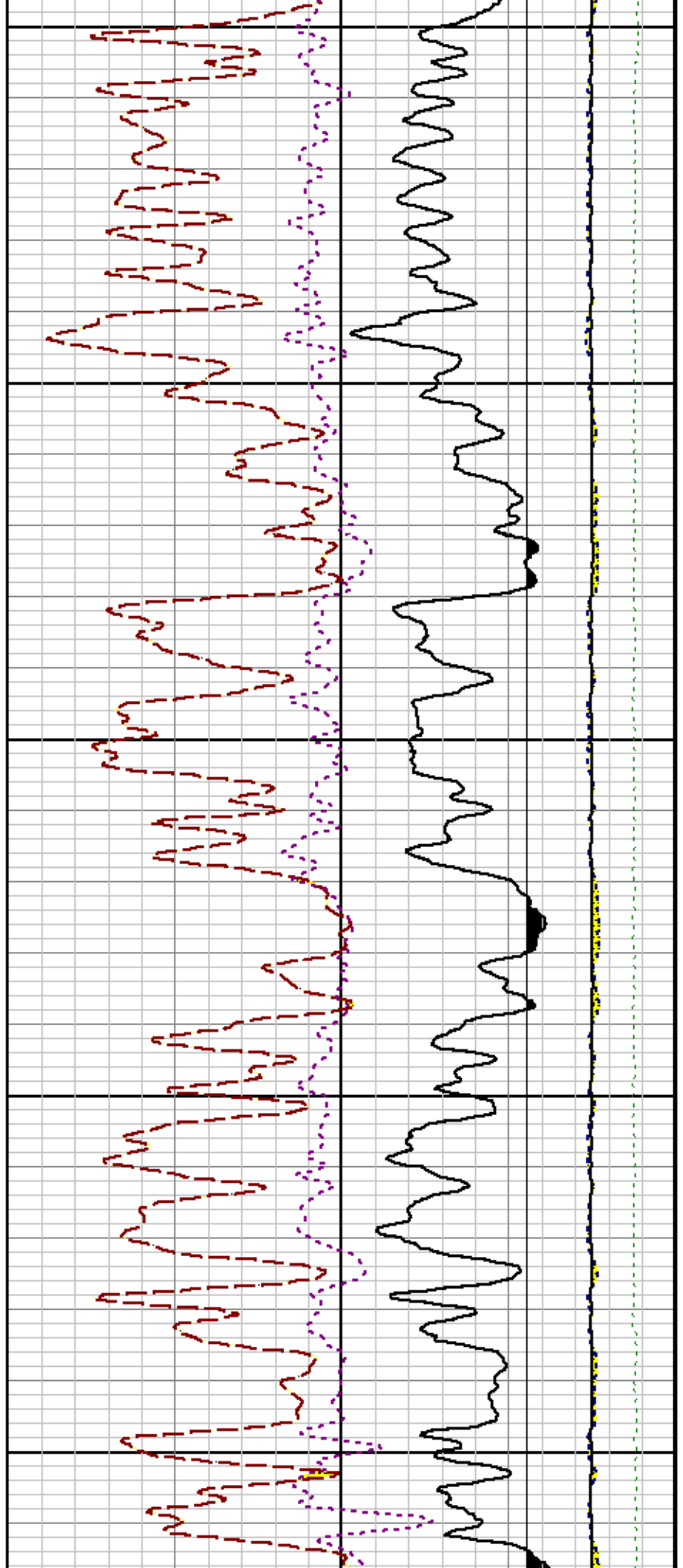








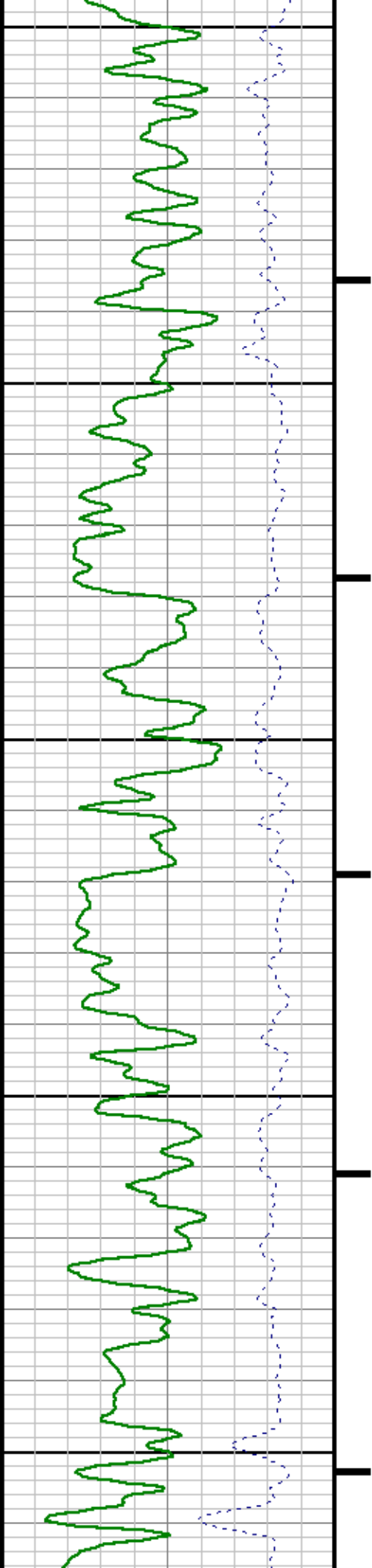


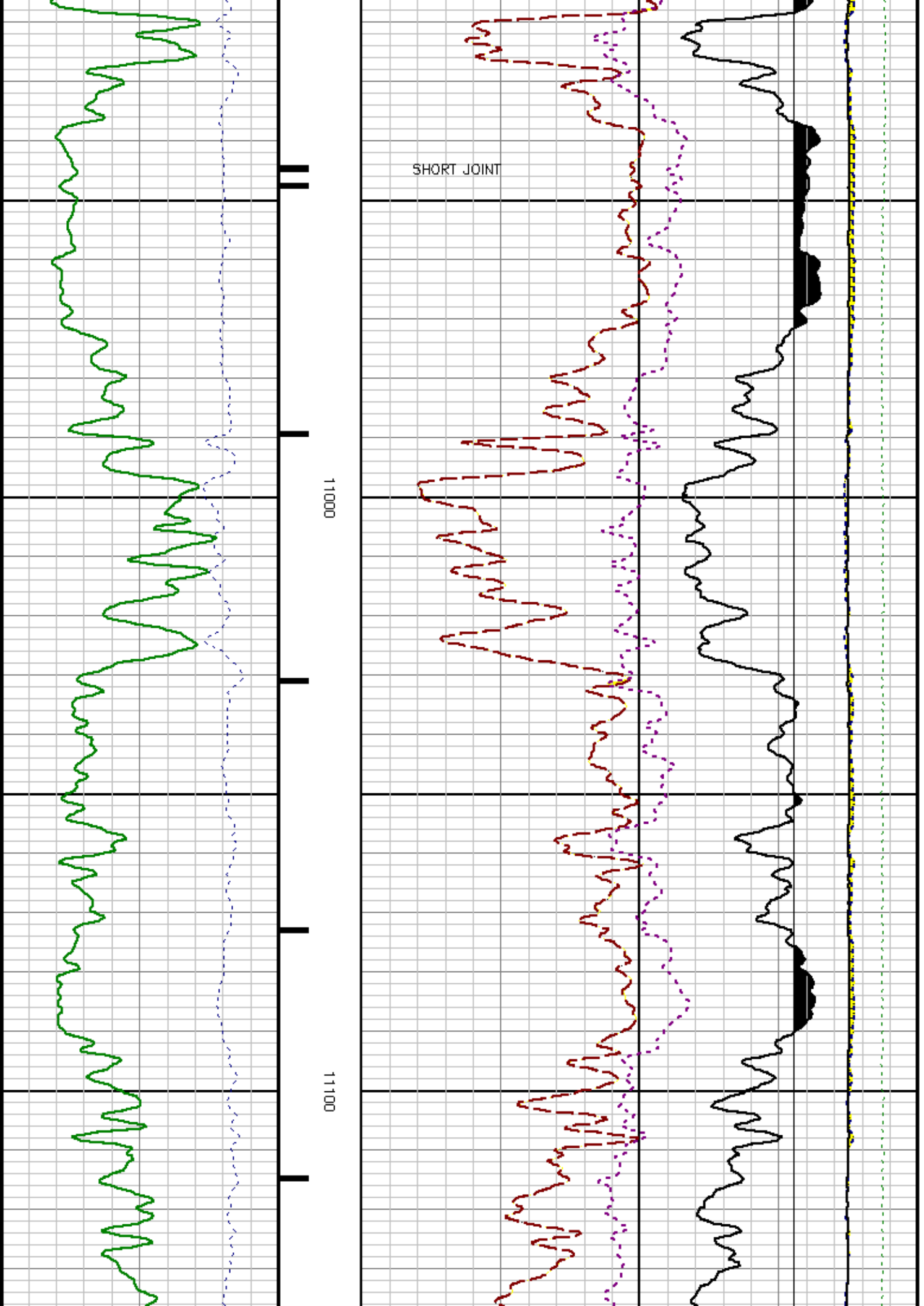


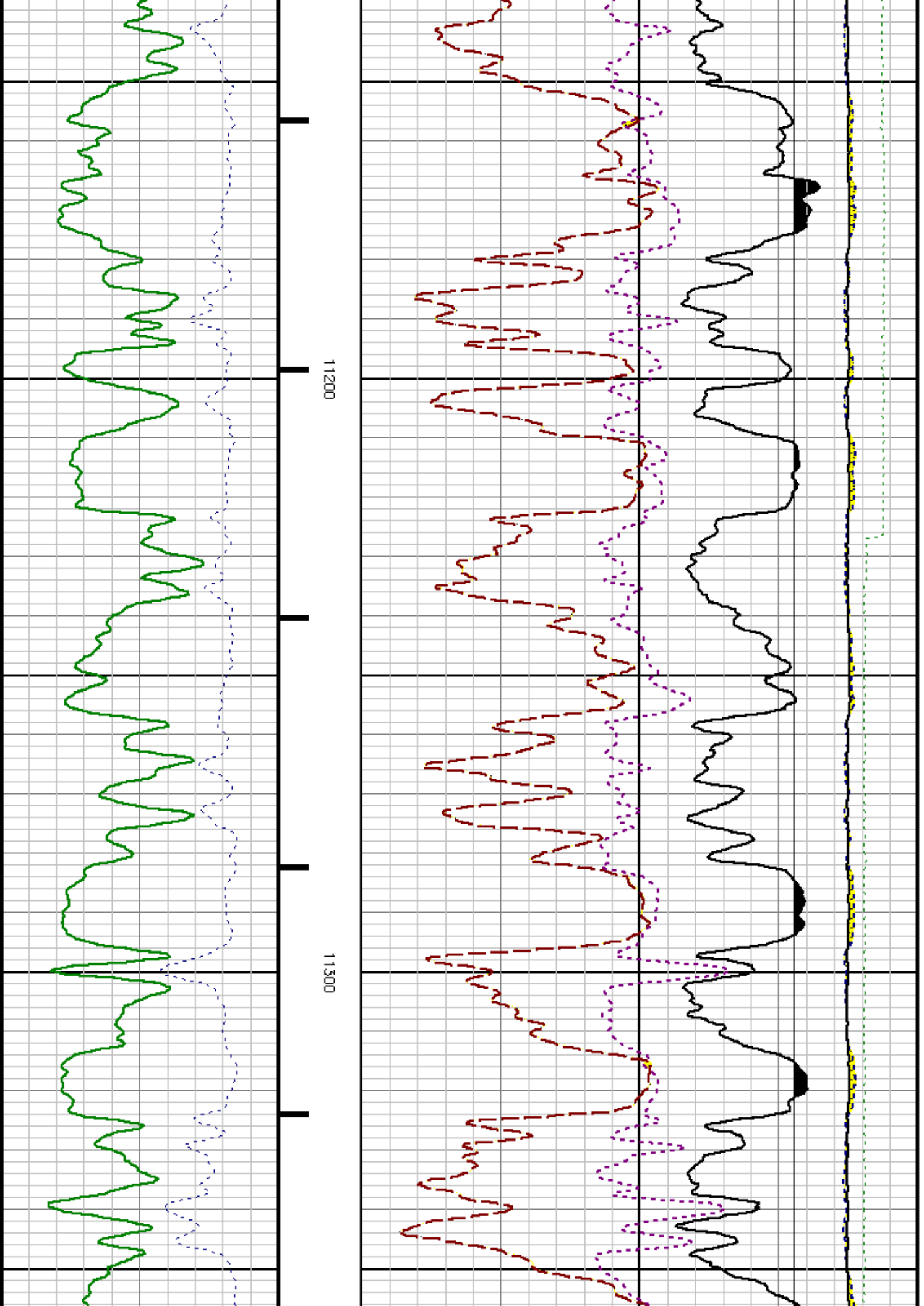
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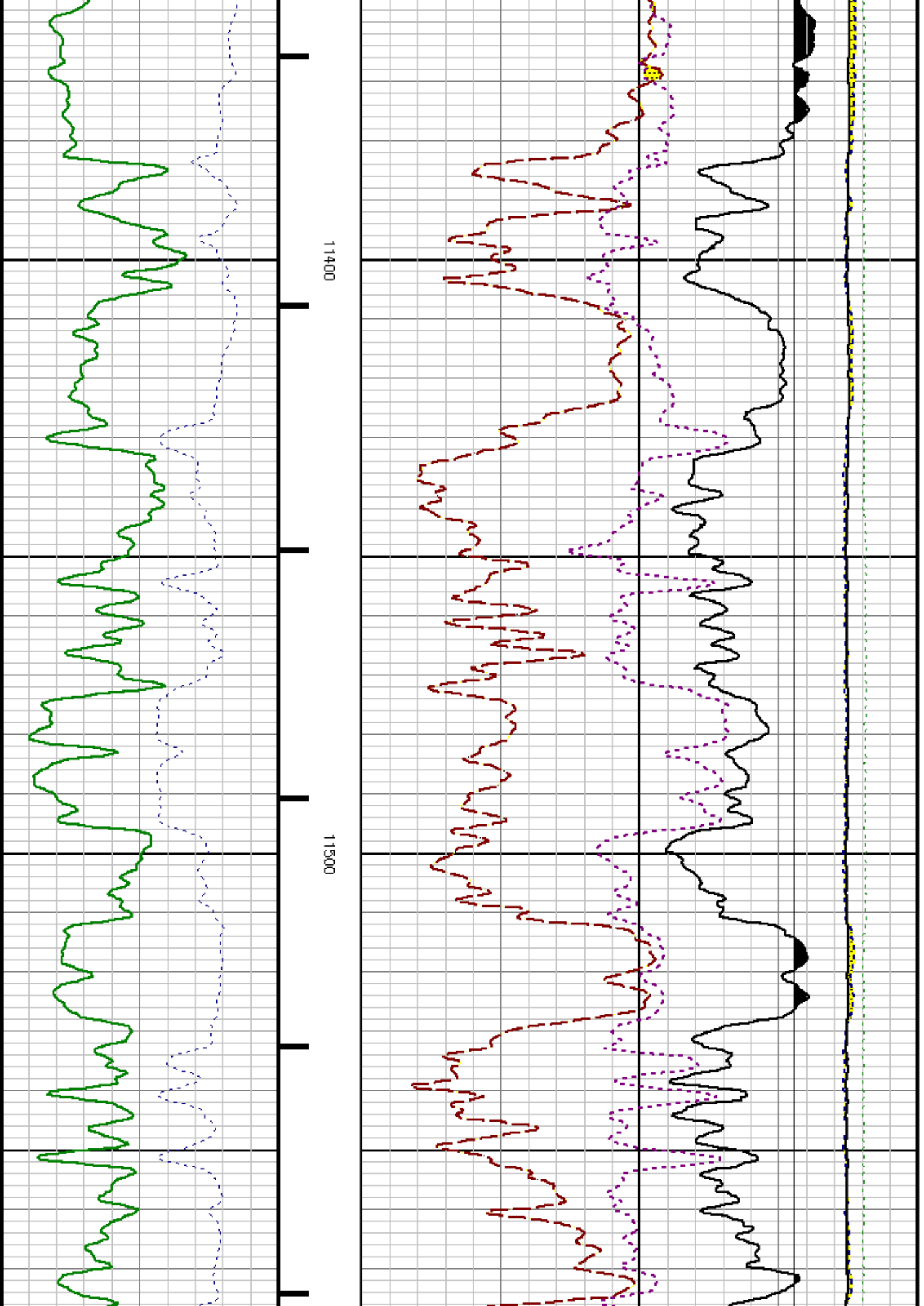
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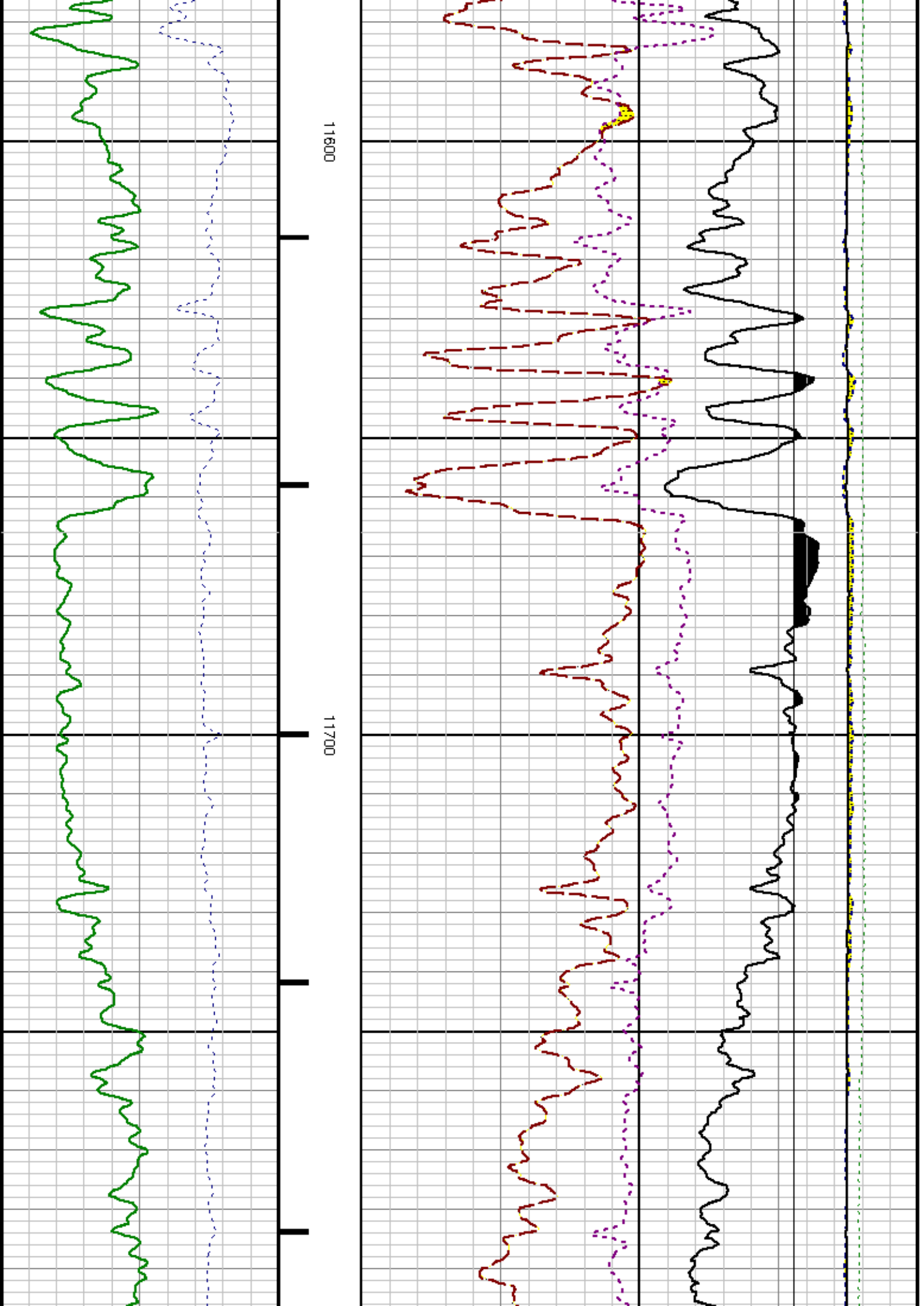
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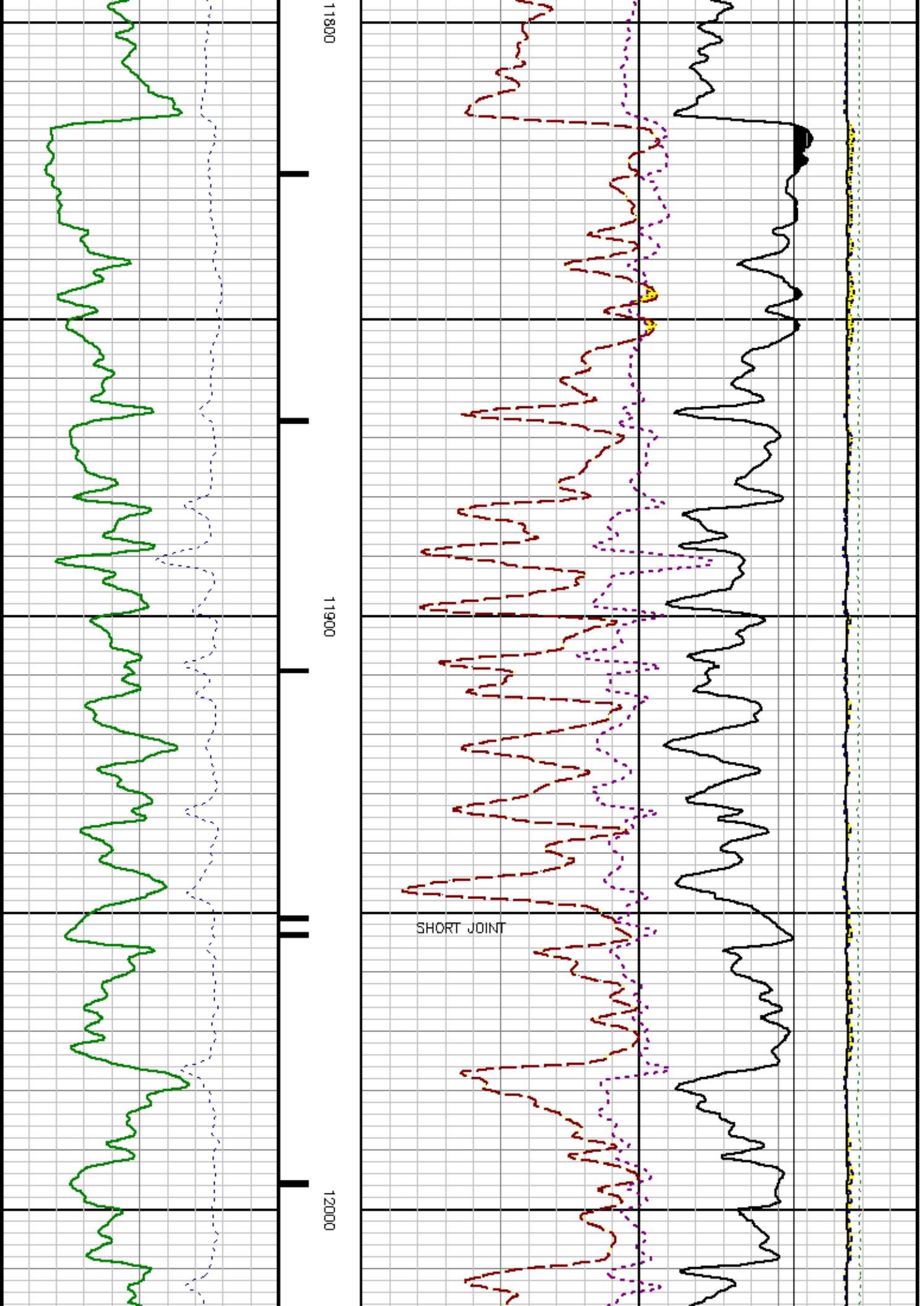


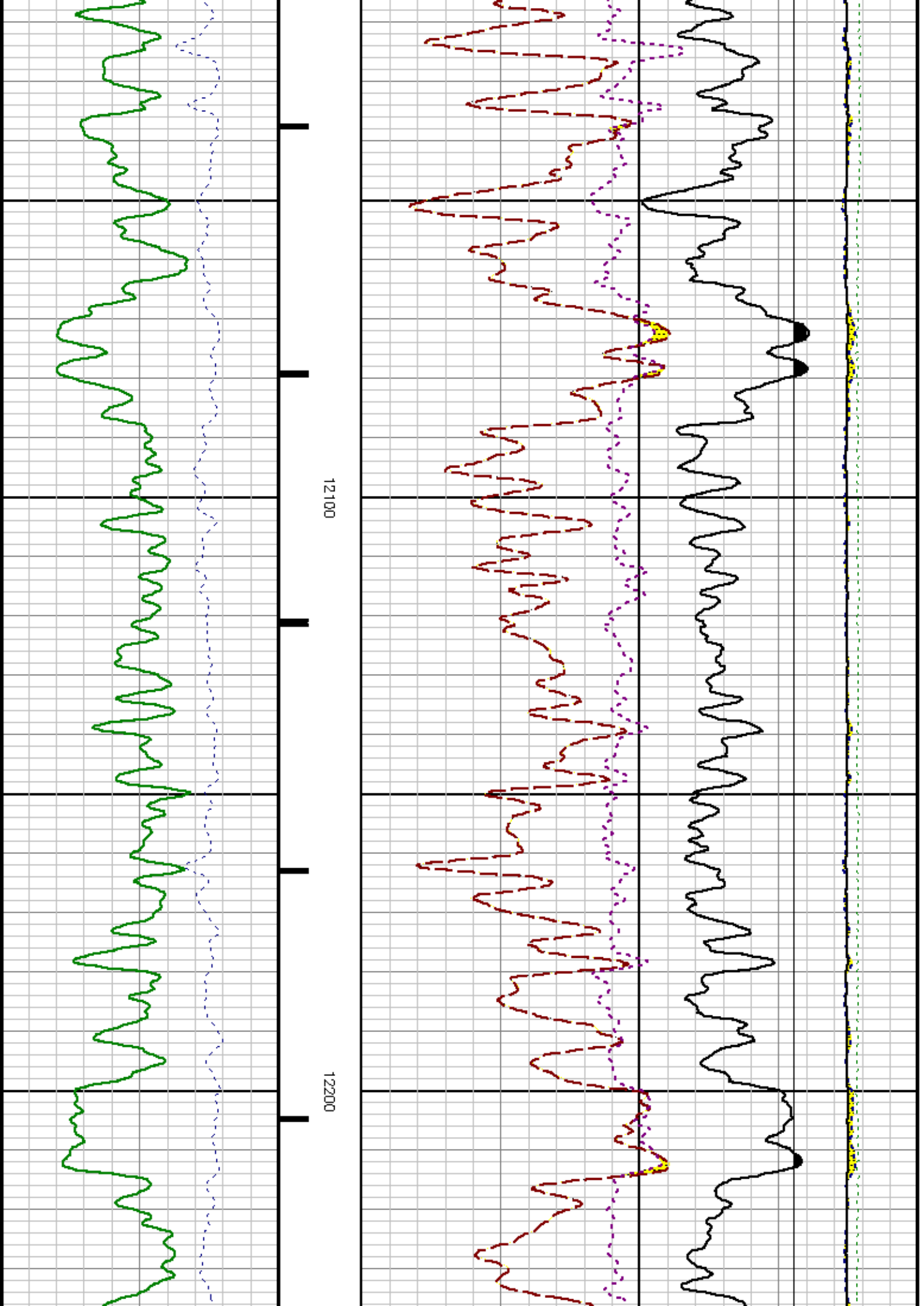


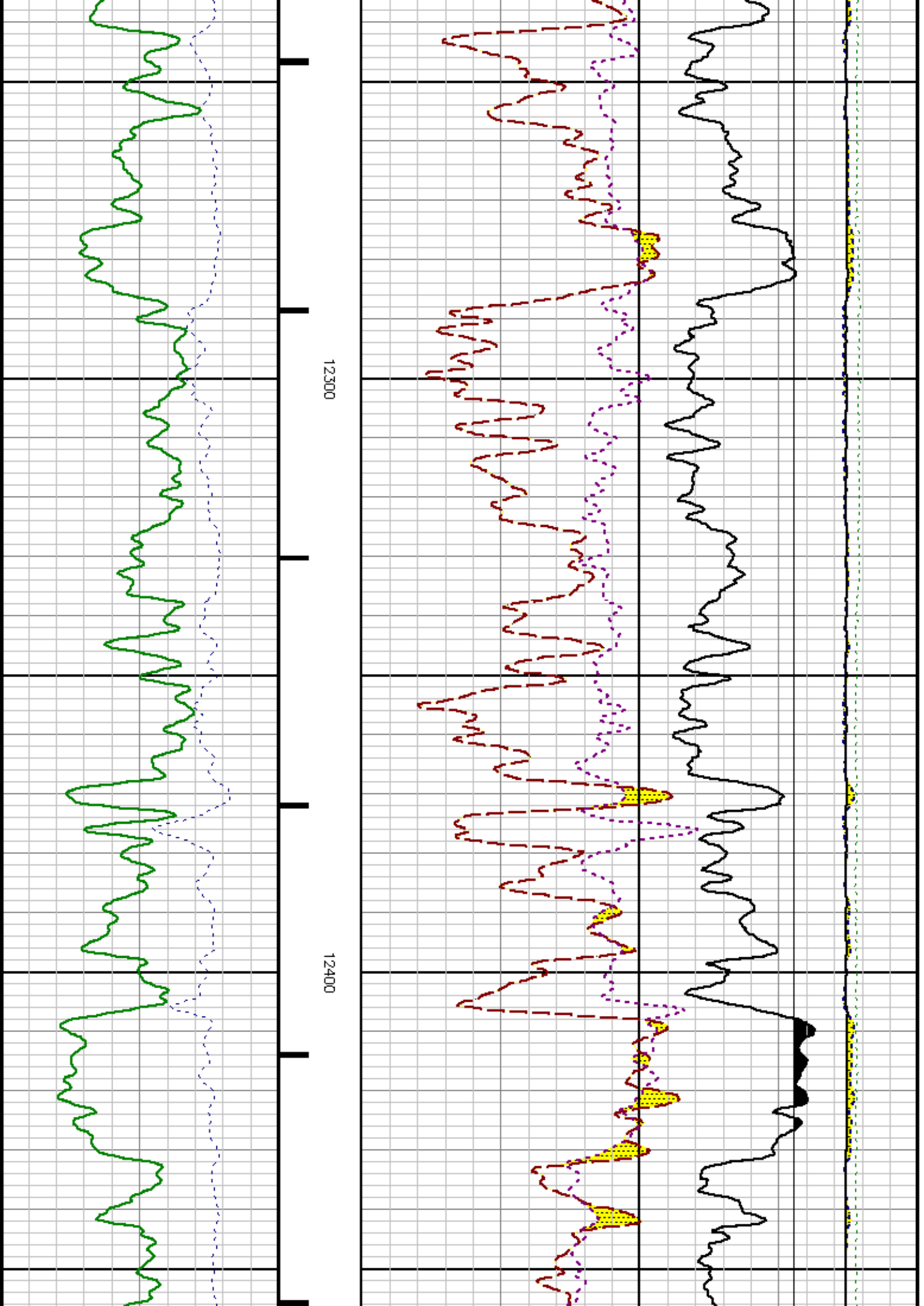


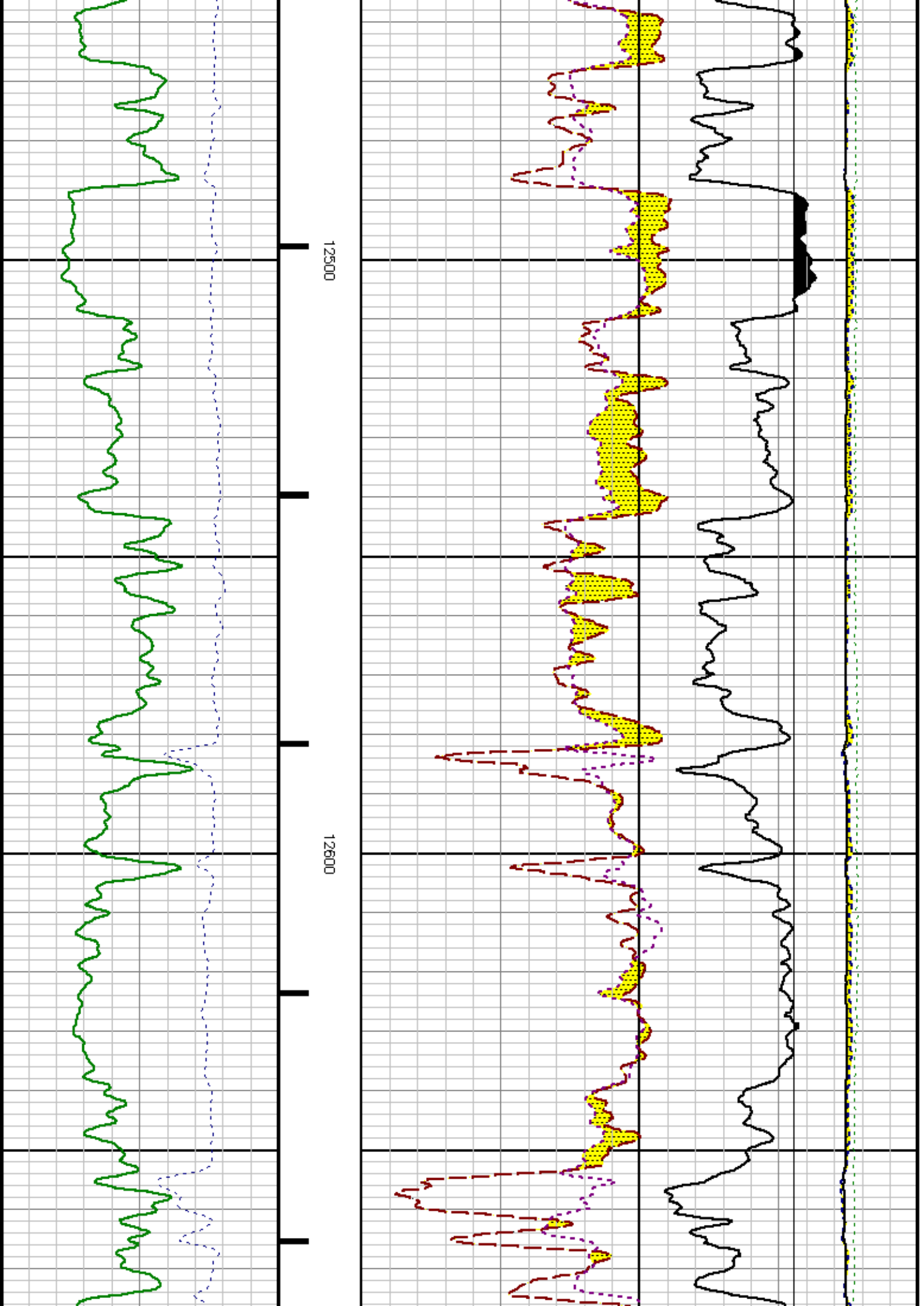


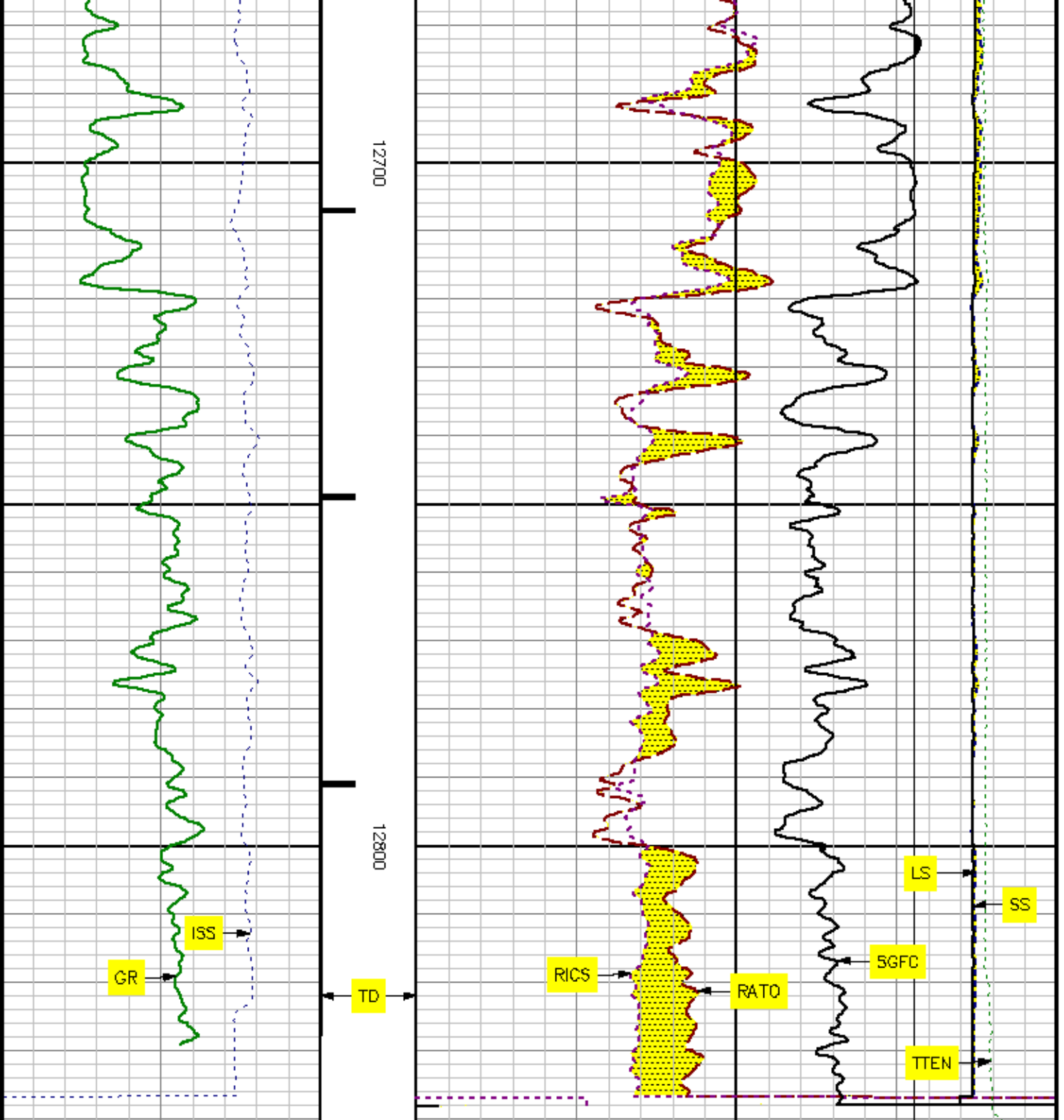












0	ISS	1e+006
	cpa	
0	GR	150
	gAPI	

CCL
000
MD Feet 1240

15	RATO	0
36	RICS	8
60	SGFC	0
	cu	
	SS	230000
	cpa	
	TTEN	350
	lbf	

REPEAT SECTION

SPL PROCESSING

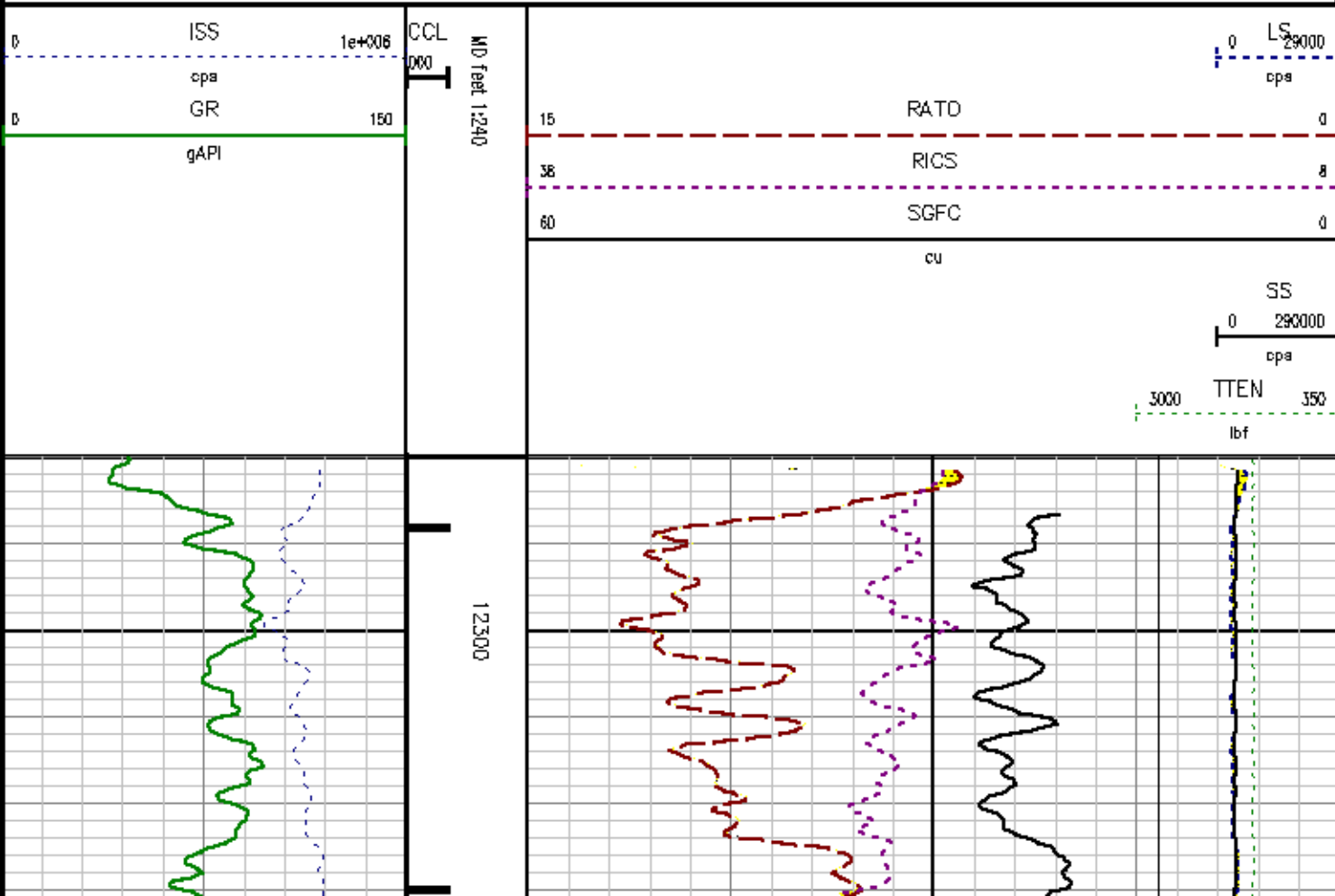
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
PNC Porosity	Borehole	Cased		12279.843	12840.000
PNC Porosity	Borehole Size	6.125	inch	12279.843	12840.000
PNC Porosity	Casing Size	4.500	inch	12279.843	12840.000
PNC Porosity	Gas Filled	Non Gas Filled		12279.843	12840.000
PNC Porosity	Matrix	Sandstone		12279.843	12840.000

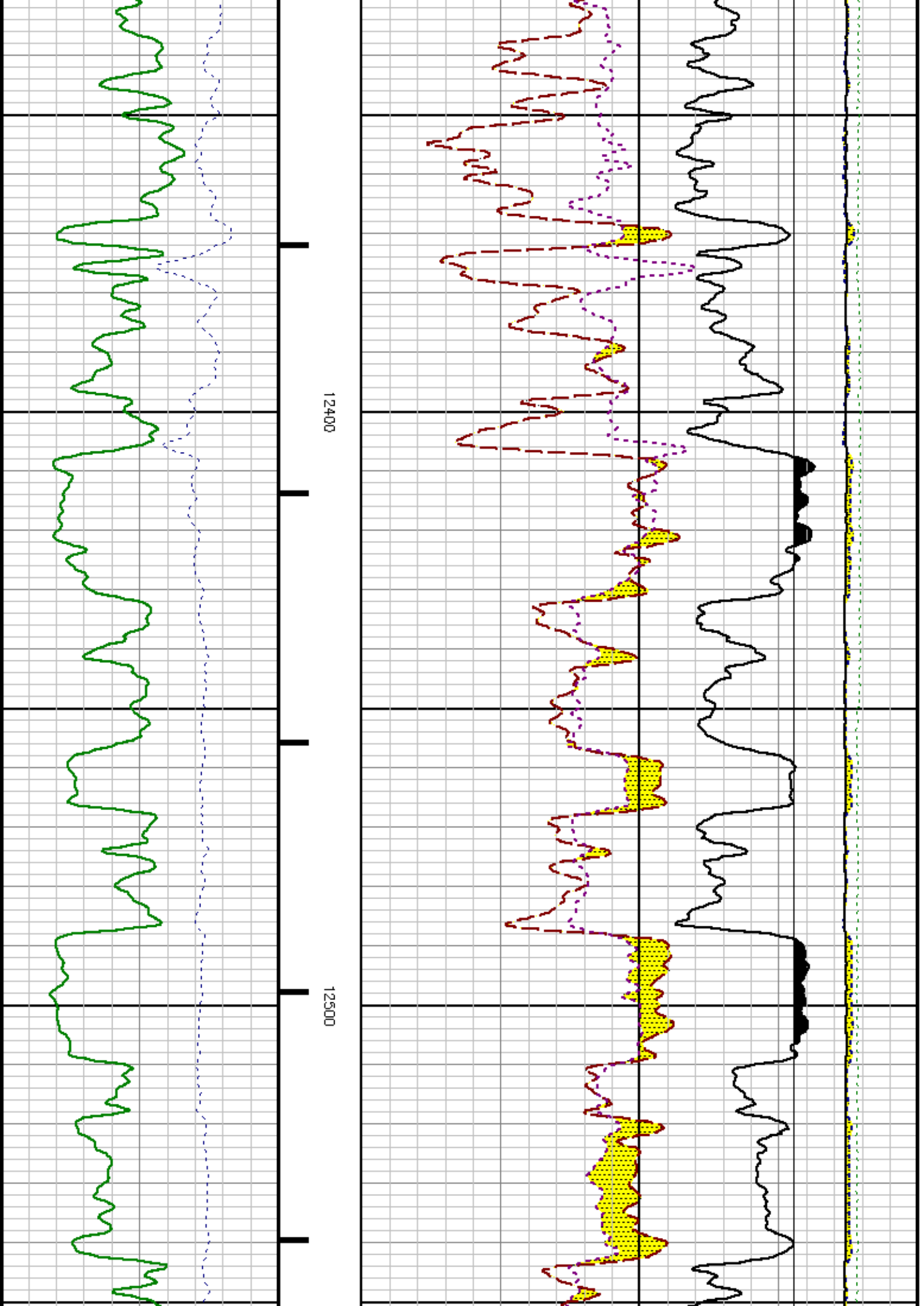
DEPTH OFFSETS (for Acquired Curves)

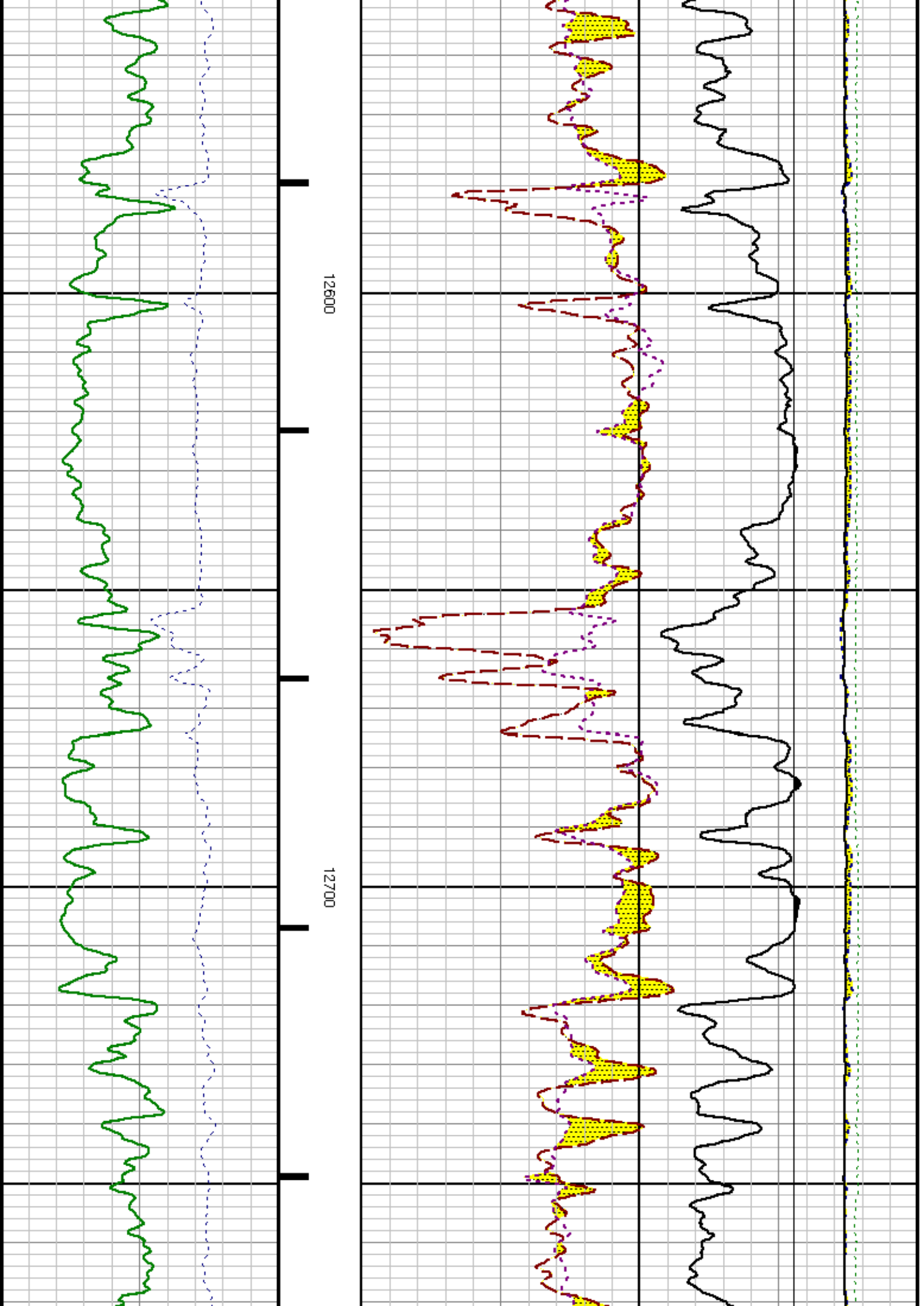
SERIES	DEPTH OFFSET	ACQUIRED CURVES					
8248EA	-15.320	FLTM					
8248EA	-13.320	CGL CHV					
8262XA	-10.189	GR					
8281XA	-0.662	HVC300	SEQ5	AMA3	AML3	BKX	CXS
		CPT300	CPT302	CPT303	CPT304	ET3	IXS
		MCS3	MCS300	QCAL3	RGN3	RICX	SDA3
		SDL3	SGA3	SGL3	STA3	XS	ASPEC3
		AMB3	AMF3	CHF3	IXSC	IXSN	RAT023
		RICXC	RIN13C	RIN23	RIN23C	SD3D	SG3D
		SGB3	SGF3	WDTH3	CXSR	IXSR	XSR
		RICXR					
8281XA	-0.250	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
		GSS	CORB	QGRF	CPT100	CPT102	CPT102A
		CPT102B	CPT102C	CPT103	CPT104	CPT105	ET1
		G1	G2	GE1S	GE2S	ISS	MCS1
		MCS100	QA1	QCAL1	QM1	RAT0	RAT013

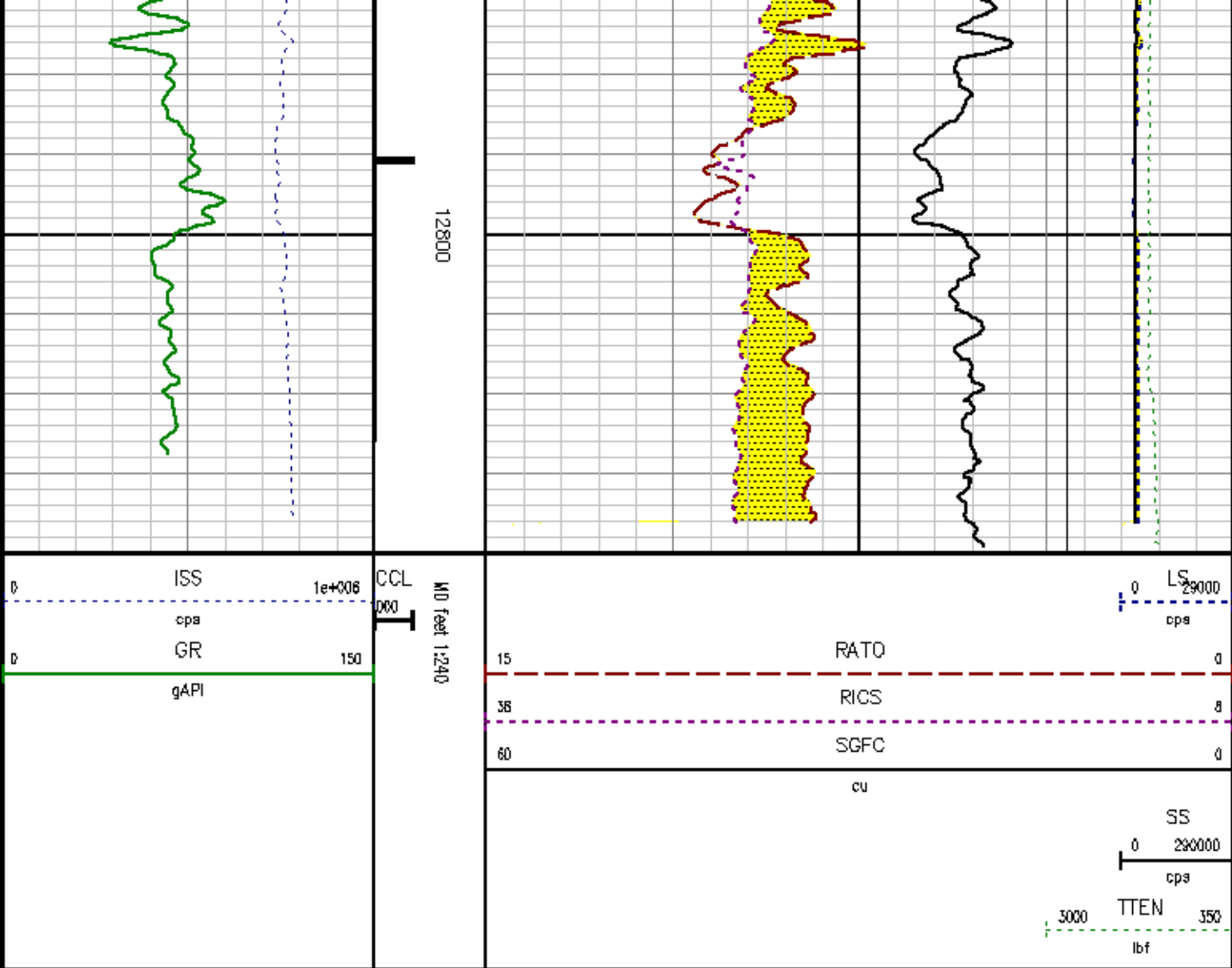
RBOR	RGN1	RICS	RIN	RONE	RPCR
RTWO	RIN13	ROME13	RTW013	SALB	SC1
SDA1	SDL1	SGA1	SGB1	SGBC	SGE1
SGF1	SGFC	SGK1	SGL1	SS	SS2
STA1	PD1S	PD2S	PD3S	MD1S	MD2S
MD3S	DG1S	DG2S	DG3S	PD1M	PD2M
PD3M	MD1M	MD2M	MD3M	DG1M	DG2M
DG3M	MVS	MA	MVM	FILV	IAM
TA	PVM	PVS	IAS	SSTAT	QPD1
QPD2	QPD3	QMD1	QMD2	QMD3	QDG1
QDG2	QDG3	QMA	QTA	QFILV	QMV
QPV	QIA	DERR	DCNT	QPK1	QSA1
PKS1	ASPEC1	HOC	FE2XC	ISSC	RINC
ISSN	RDEN	WDTH1	RICSC	CSSR	G1R
G2R	ISSR	SSR	SS2R	RATOR	RAT013R
RBORR	RICSR	RINR	RIN13R	RONER	RPCRR
RTWOR					
SYSTEM	Q.000	TEN	TTEN		

Created by : RPM9, v5.0.0.0
 Plotted by : PlatMgr, v5.4.504
 Company : EXXONMOBIL PRODUCTION COMPANY
 Well : PCU 297-11B1
 File Name : d:\well\data\1rpm\repeat.xtf
 Mode : PlatMgr 5.4.504
 Interval : 12280.00 - 12840.00 feet UP
 Created : 1/13/2010 4:48:57 AM









CALIBRATION SUMMARY

GAMMA RAY

Calibration File: C:\case\calver\GR\470J1.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Dec 31 13:53:49 2008 TOOL SERIES: 8262XA ASSET: 470 SEQ: J1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K DA856	90.56	441.82	0.512	46.40	228.40	180.00

Verification File: C:\case\calver\GR\470J1.VP

PRIMARY VERIFICATION

DATE/TIME PERFORMED: Thu Dec 31 13:56:30 2008 TOOL SERIES: 8262XA ASSET: 470 SEQ: J1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K DA856	90.84	442.24	0.512	46.55	226.62	180.07

PNC #2

Calibration File: C:\case\calver\PNC\774.J1.cal

PNC 3D CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Dec 31 12:40:09 2008 TOOL SERIES: 82B1XA ASSET: 774 SEQ: J1

Calibrator #	Source #
SHOP SHOP	B2B1AA 1D047977

	ISS	Mtr Vits (V)	SS Gain	LS Gain	XLS Gain	EA Temp (degF)	Sync Delay (usec)	RCAL
Raw Data	815121	131.00	2276.00	2309.00	2288.00	102.99	15.00	0.9739
Interpolated	1300000	156.67	2258.58	2305.59	2289.75			

	ISS	BKS	BKL	BKX	SCA1	SDA1	SCA2	SDA2
Raw Data	815121	8578.45	1331.23	183.17	25.89	0.13	24.53	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	815121	185527.20	28970.60	106088.54	37691.82	9742.98	64072.47	15660.43
Fit Quality %		1.23	1.11	1.15	1.16	1.32	0.97	1.30

	ISS	RBOR	RIN ISS/ILS	RIN13 ISS/IXS	RICS ISS/CSS	RATO SS/LS	RTWO SS2/LS	RONE CSS/CLS
Raw Data	815121	1.43	4.39	28.14	12.72	10.89	3.87	4.09
		1.42 1.45	3.55 5.21	22.20 32.10	10.99 16.34	10.08 11.10	3.57 3.95	3.78 4.22
Fit Quality %		0.07	0.07	0.24	0.15	0.10	0.09	0.13
Reduced	1409297	1.43	4.42	28.34	12.82	10.89	3.87	4.09
		1.42 1.45	4.33 5.52	27.60 32.70	13.70 16.34	10.08 11.10	3.57 3.95	3.78 4.22

TOOL DIAGRAM

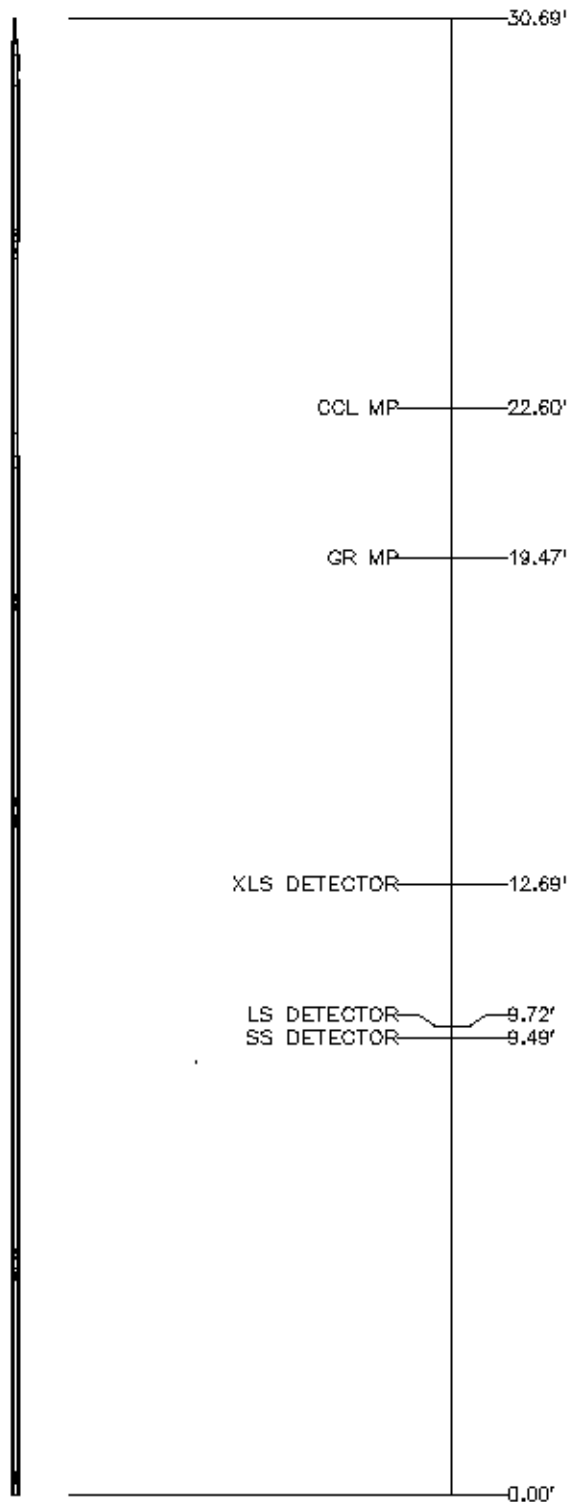
OTA SHORT CABLE HEAD

PCM POWER SUPPLY (8250EA)

TELEMETRY / CCL (8248EA)

GAMMA RAY (8262XA)

RESERVOIR PERFORMANCE MONITOR (8281XA)



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

Field

PICEANCE CREEK

API No:

County

RIO BLANCO

State

COLORADO

05-103-11379-0000

Location

364' FSL & 487' FEL

Elevations

KB 7157.5 ft

DF 7158.5 ft

GL 7131 ft

SEC 11 TWP 2S RGE 97W

Baker Atlas*CASE*