



RESERVOIR PERFORMANCE MONITOR

Baker Atlas

File No: **1888** Company: **EXXONMOBIL PRODUCTION COMPANY**
 Well: **PCU 197-34B10**
 Field: **PICEANCE CREEK**
 County: **RIO BLANCO** State: **COLORADO**
 API No: **045-103-11146-00**

Location: **798' FSL & 983' FEL** Other Services: **3.625" GAUGE BOND**
 SEC **34** TWP **1S** RGE **9W**

Permanent Datum: **G.L. _____ Elevation **6647** ft**
 Log Measured From: **K.B. _____ 30.2 ft** Above P. D.
 Drill Measured From: **KELLY BUSHING** Elevations: **KB 6677.2 ft**
DF 6676.2 ft
GL 6647 ft

Date	08/MAR/10
Run	ONE
Service Order	578777
Depth Driller	12855 ft
Depth Logger	12586 ft
Bottom Logged Interval	12586 ft
Top Logged Interval	7150 ft
Time Started	8:00
Time Finished	17:30
Operator Rig Time	9.5 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	BAKER ATLAS RADIAL ANALYSIS BOND LOG
Reference Log Date	08/MAR/10
Equipment No.	4271
Location	TIM KAUITT
Recorded By	MR. WOODROW GARNER
Witnessed By	

- 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
6.125 In		

Casing Record				
Size	Weight	Grade	From	To
4.5 In	15.1 lbm/ft	P-110	SURFACE	12655 ft

Remarks
 THE CREW OF 4271 THANKS YOU.

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	RPM	8281FA	10307727	FREE
1	1	RPM	8281PA	10169251	FREE

1	RPM	8281EA	10190984	FREE	
1	1	GAMMA RAY	8262XA	10191270	FREE
1	1	CCL	8248EA	121698	FREE
1	1	PCM	8250EA	10280051	FREE

*MAIN SECTION
IN PNC 3-D MODE*

SPL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
PNC Porosity	Borehole	Cased		7136.500	12590.000
PNC Porosity	Borehole Size	6.125	inch	7136.500	12590.000
PNC Porosity	Casing Size	4.500	inch	7136.500	12590.000
PNC Porosity	Gas Filled	Non Gas Filled		7136.500	12590.000
PNC Porosity	Matrix	Sandstone		7136.500	12590.000

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES							
8248EA	-15.470	FLTM							
8248EA	-13.470	CCL 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	RAT023		
		RICXC	RIN13C	RIN23	RIN23C	SD3D	SG3D		
		SGB3	SGF3	WDTH3	CXSR	IXSR	XSR		
		RICXR							
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	IL2	IL2N	WDTH2	FL2C		

8281XA

0.000

STA2	ASPEC2	TLSC	TLSN	WDTH2	RICLR
CPRS	HVC1Q0	MV	SEQ	SEQ1	AMA1
AMB1	AME1	AMF1	AML1	BKS	CHF1
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	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	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	RPORR
RTWOR					
SYSTEM	0.000	TEN	TTEN		

Created by : RPM9, v5.0.0.0

Plotted by : PlotMgr, v5.4.504

Company : EXXONMOBIL PRODUCTION COMPANY

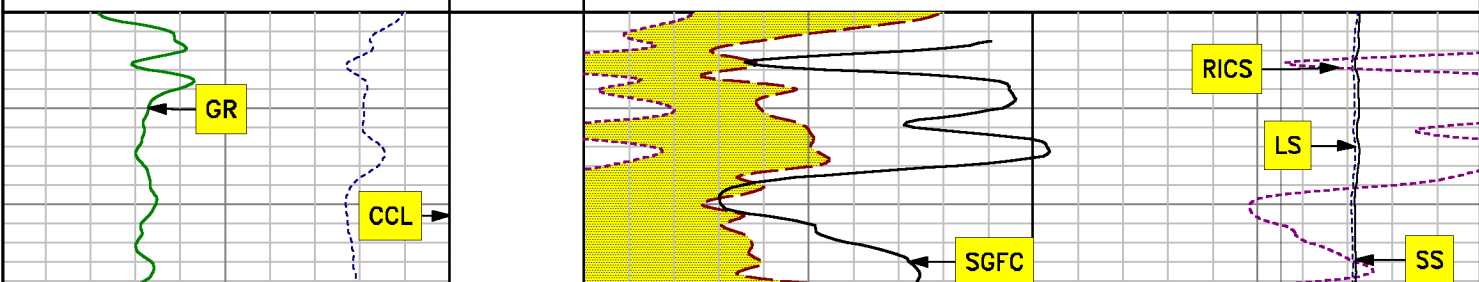
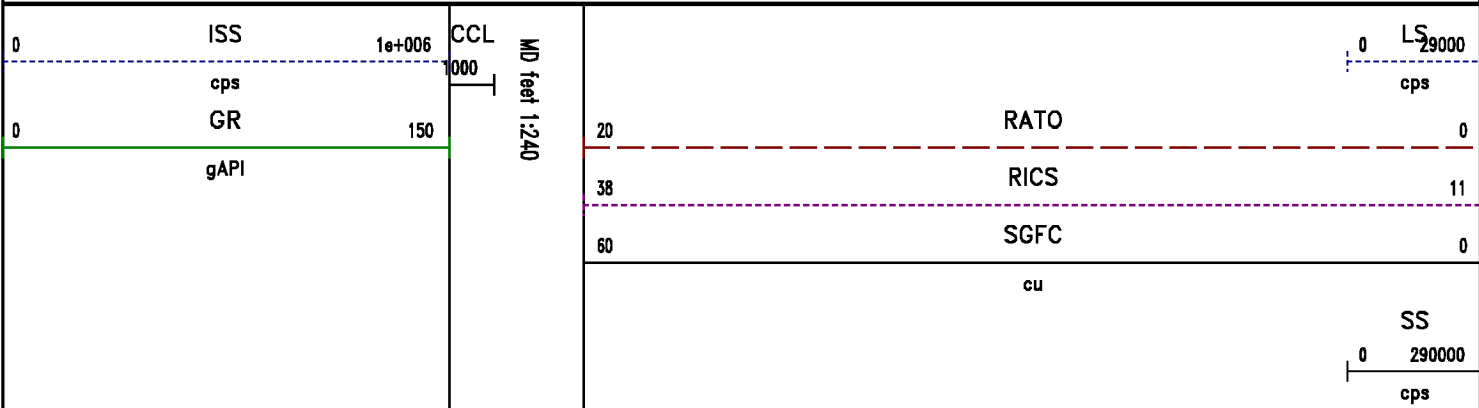
Well : PCU 197-34B10

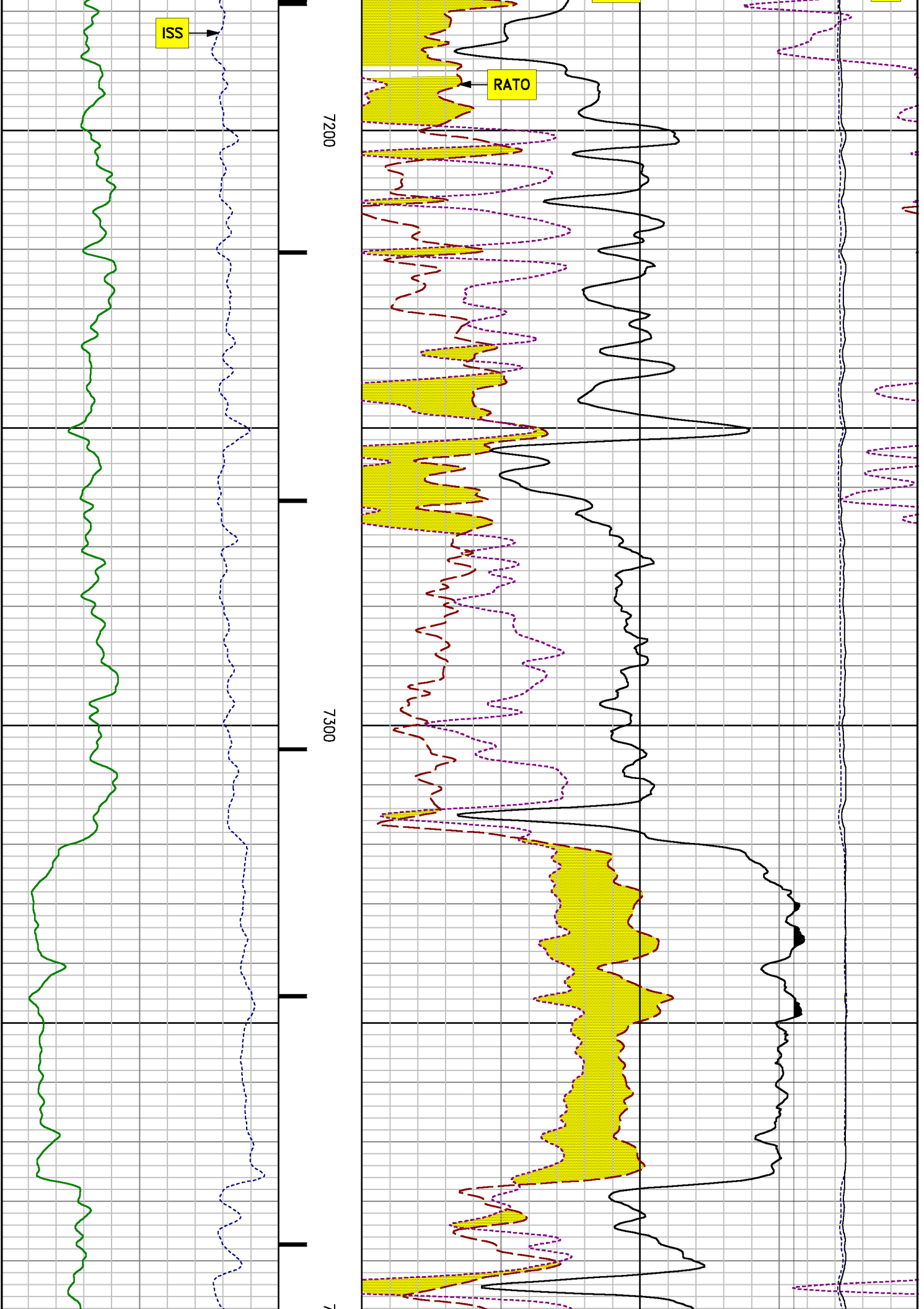
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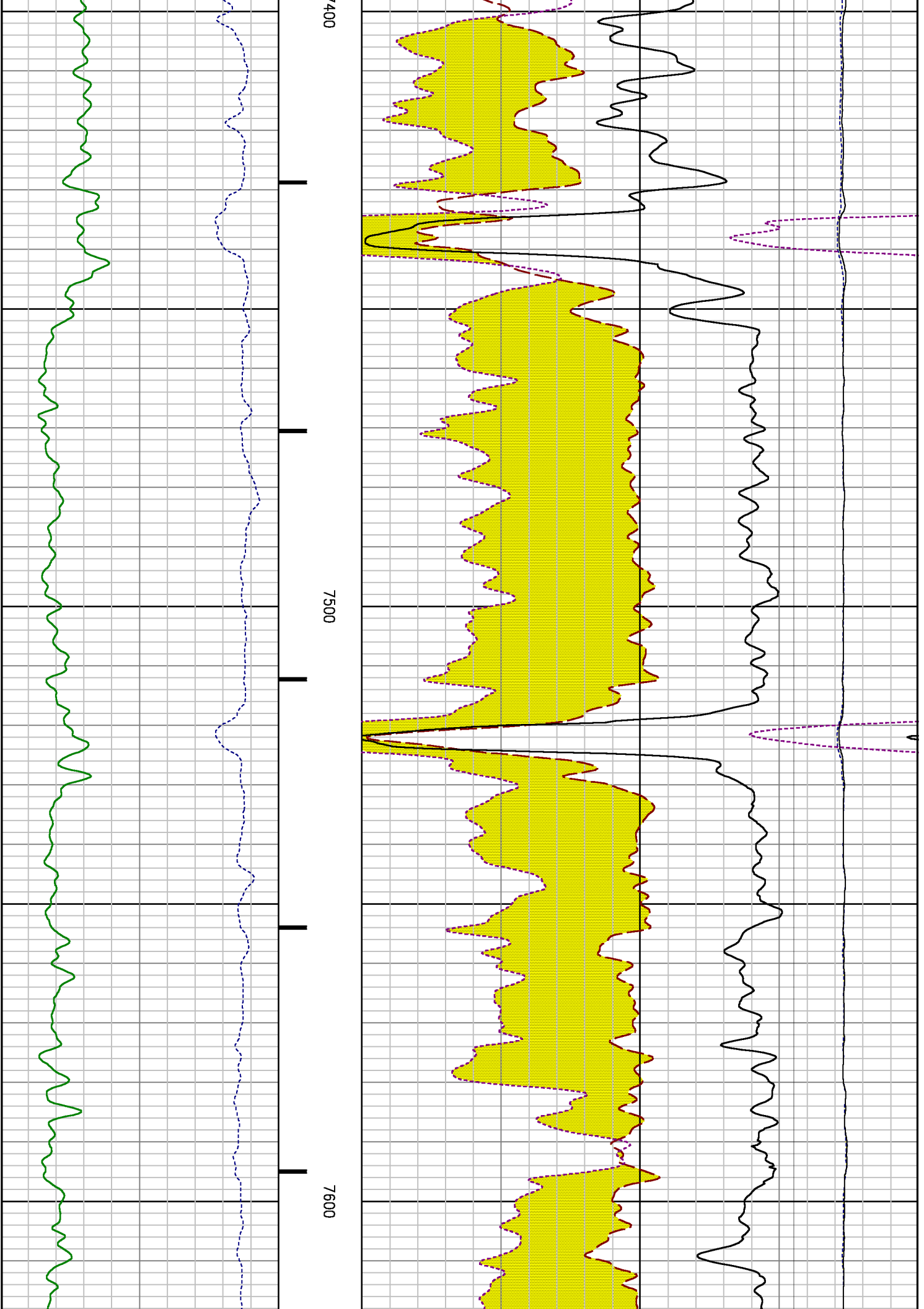
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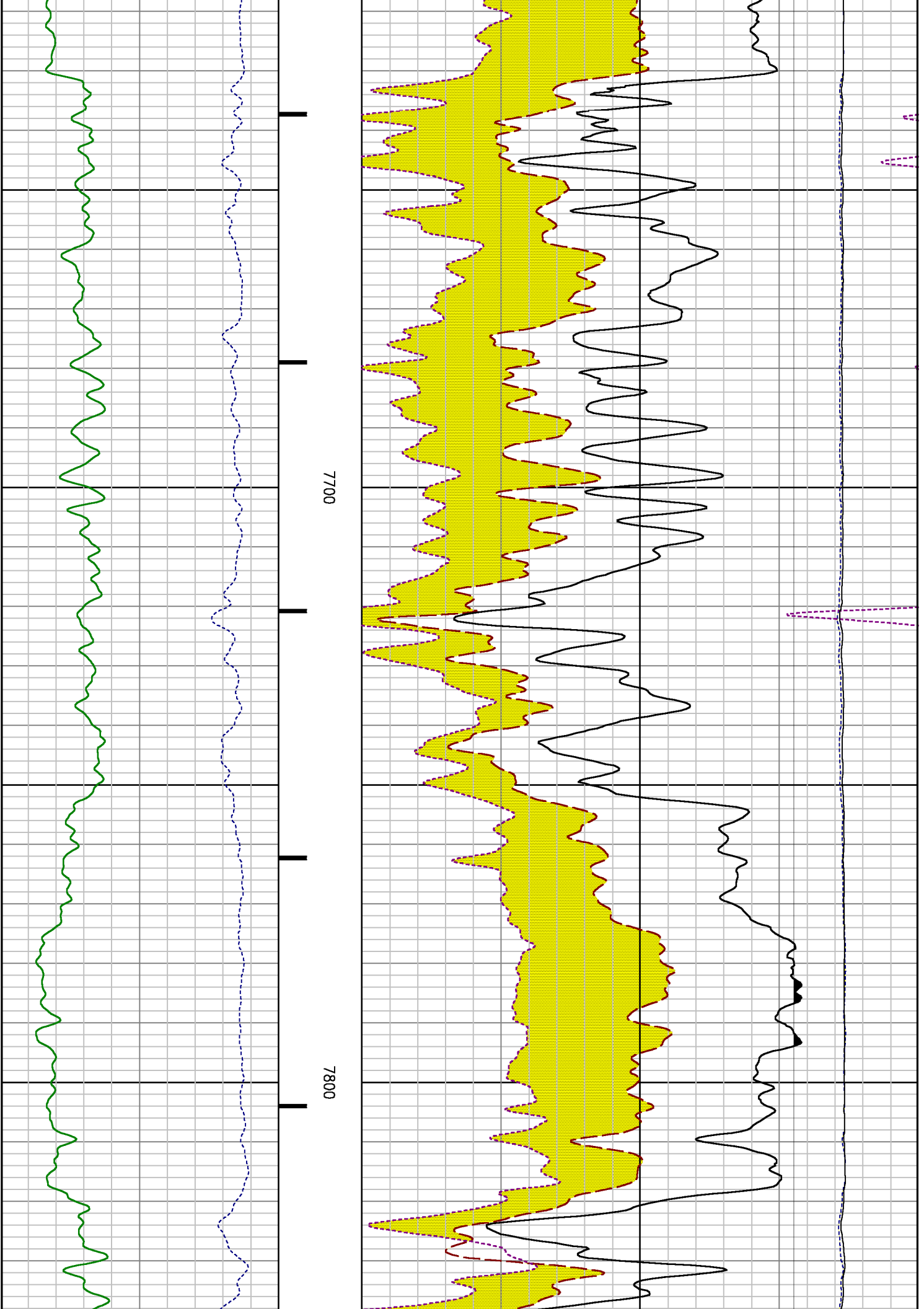
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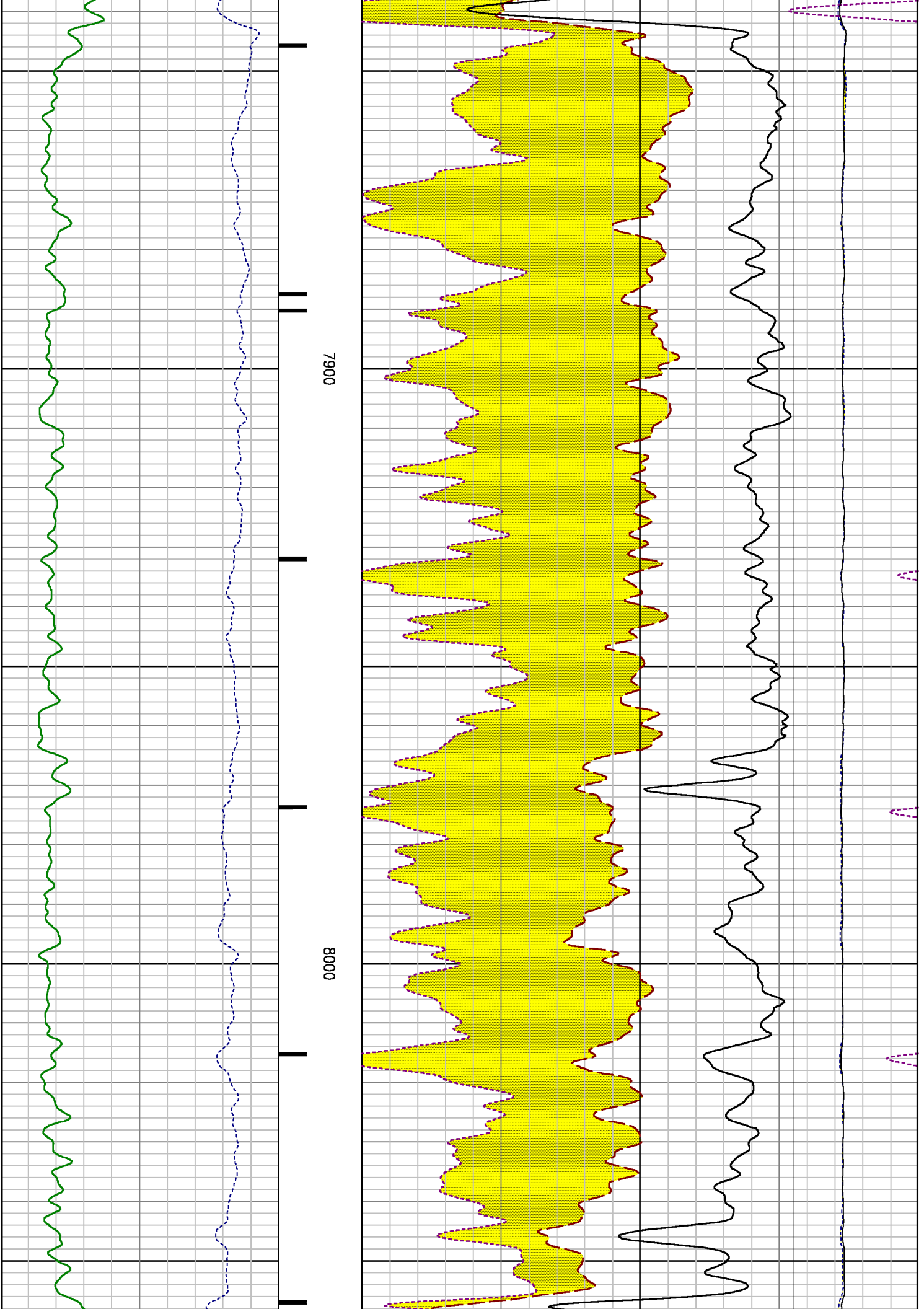
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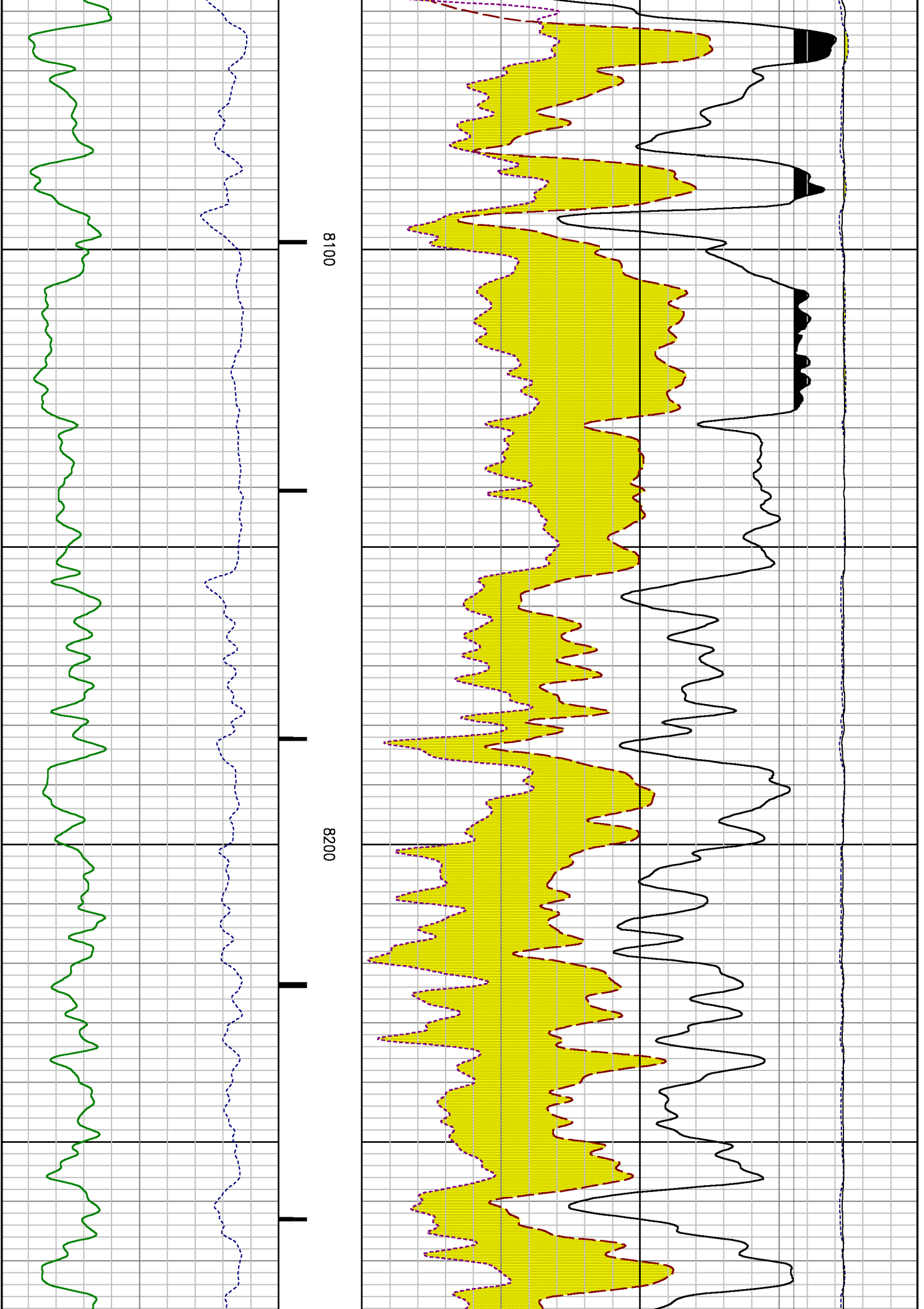


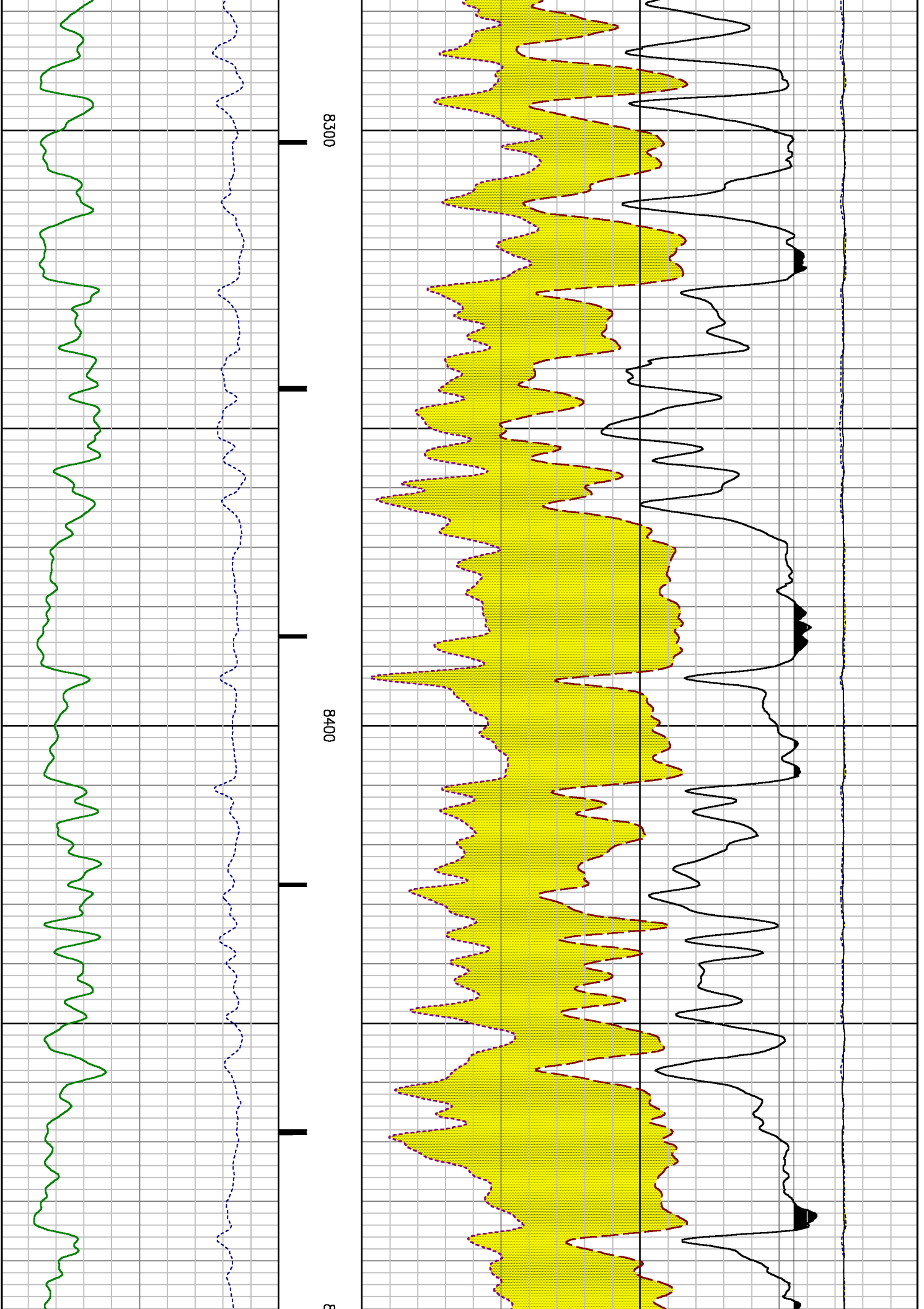


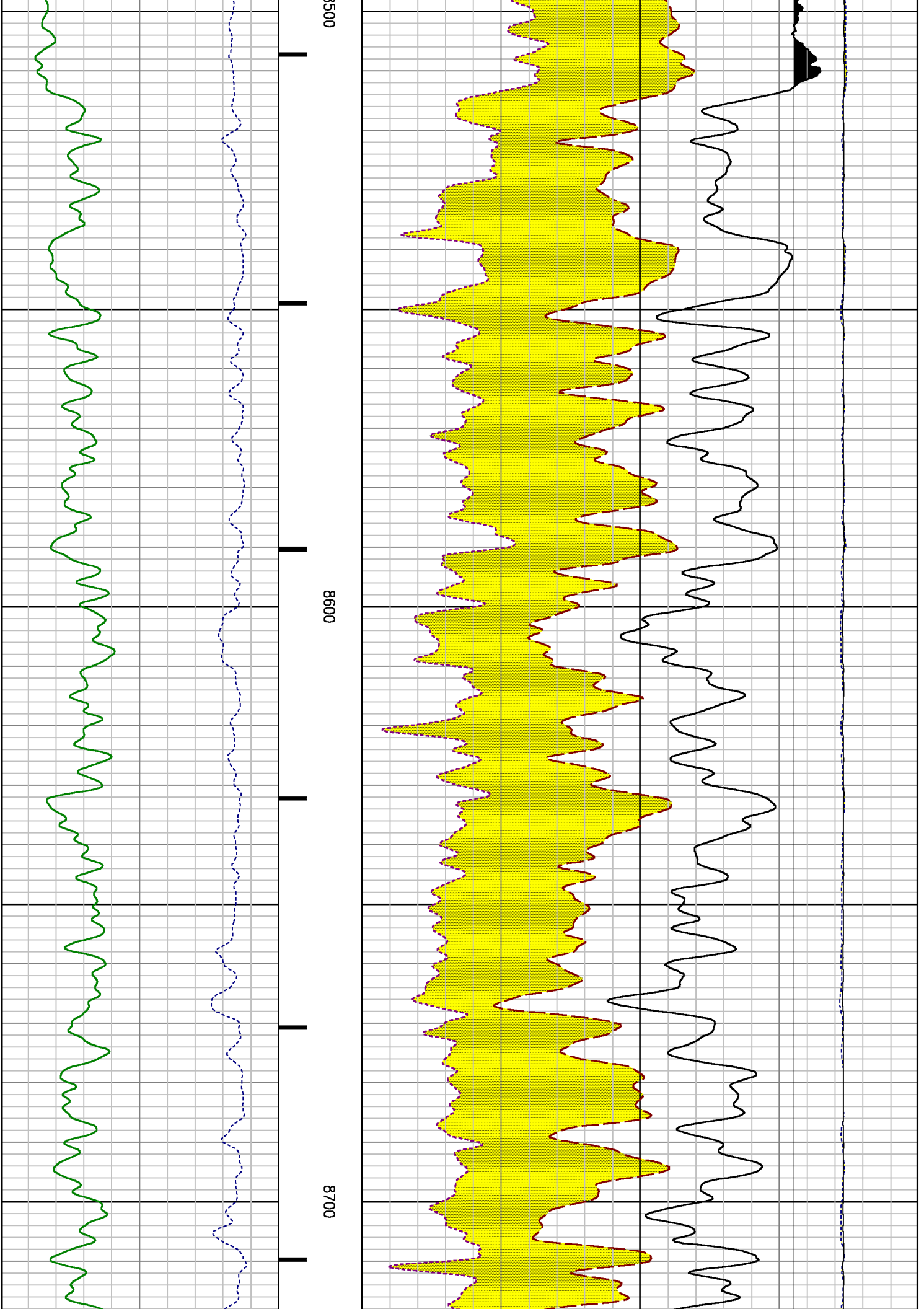


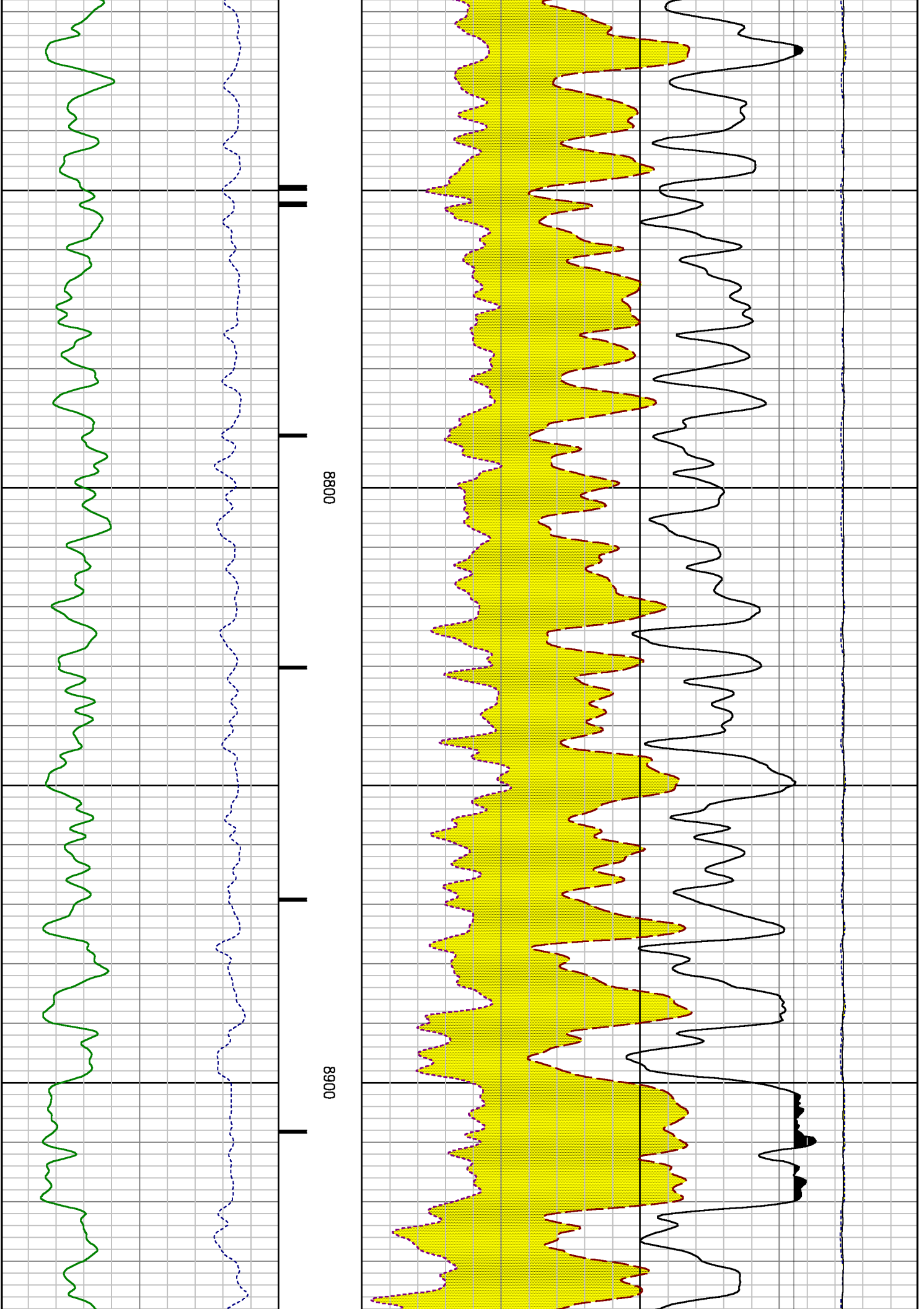


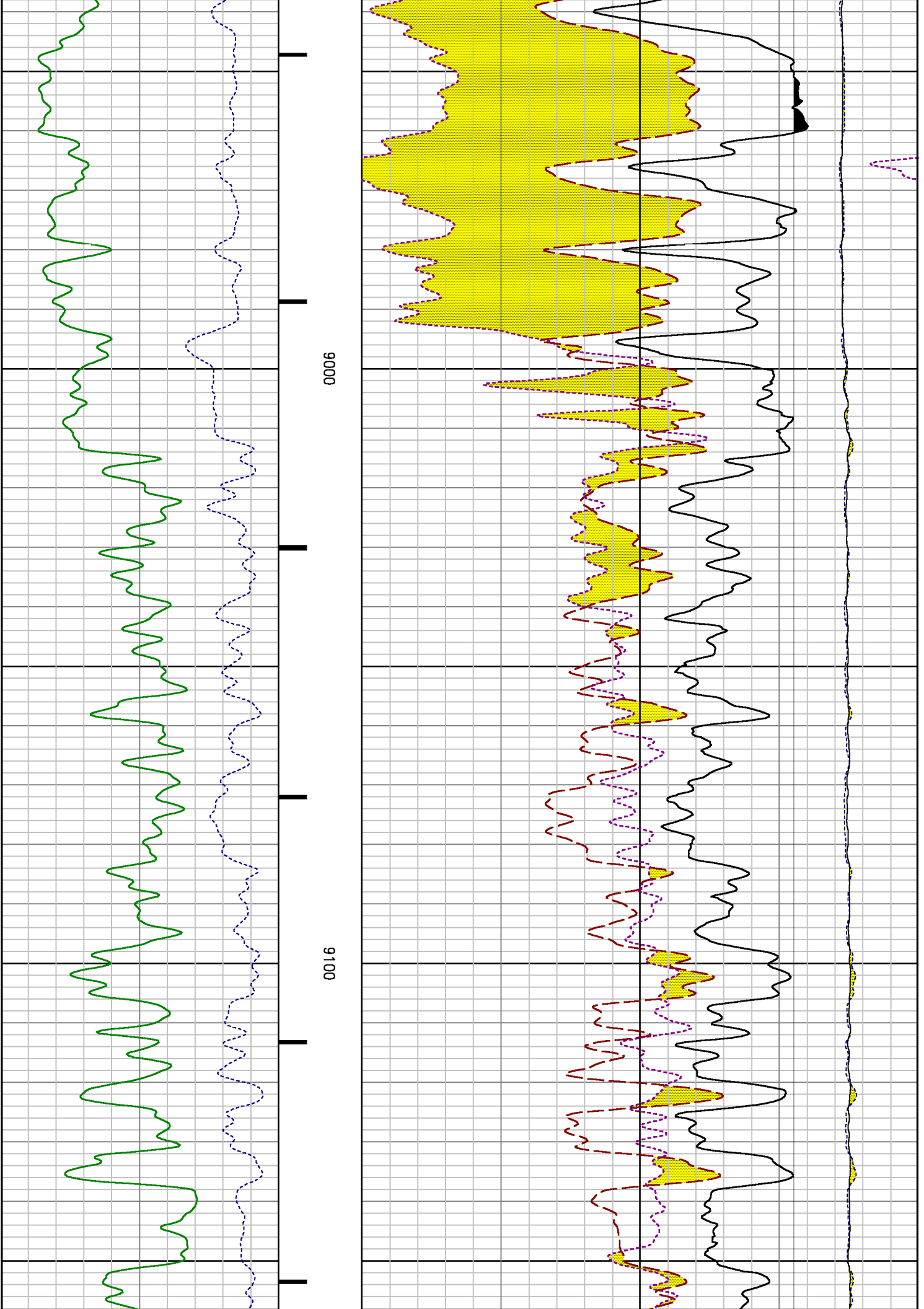


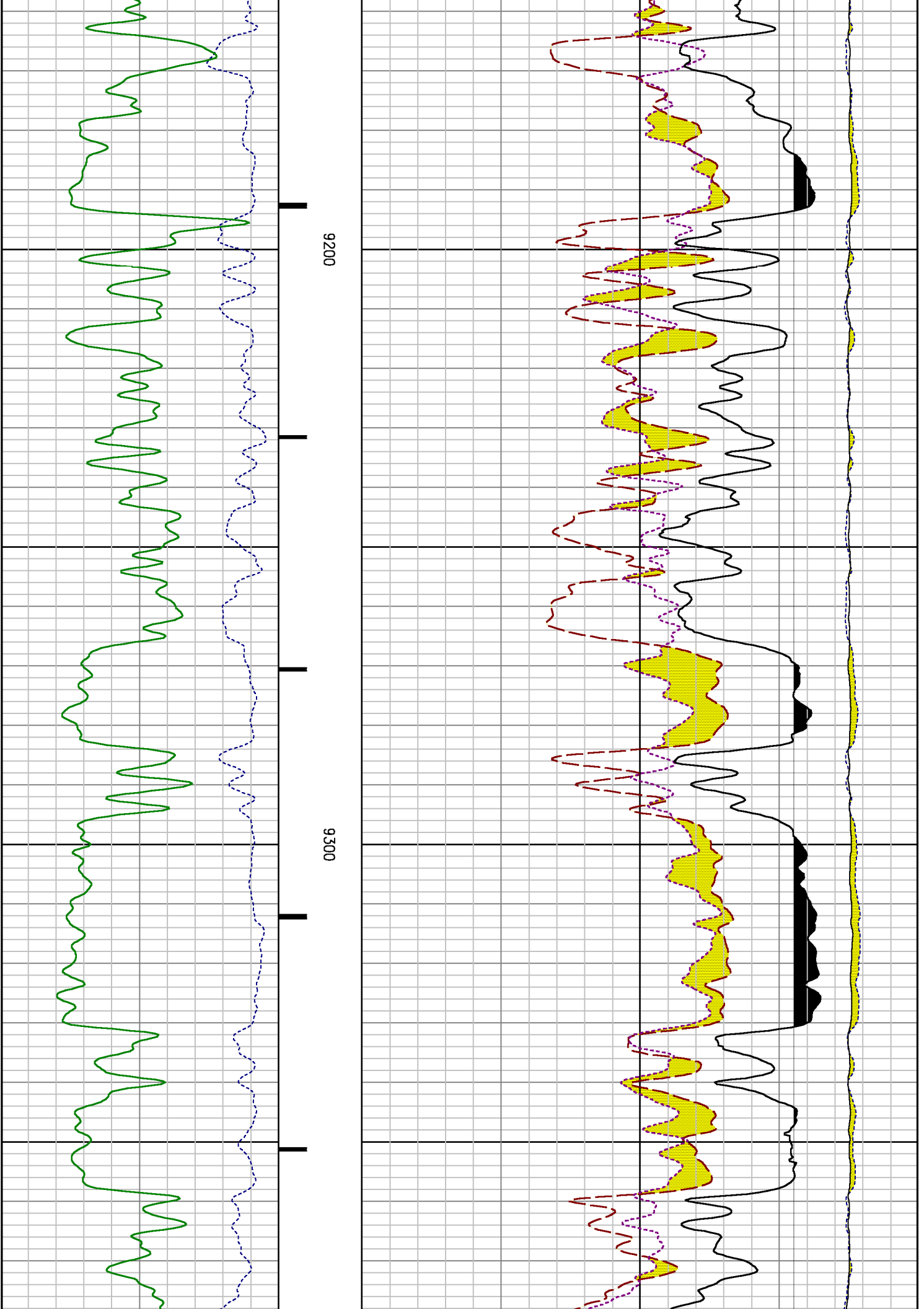


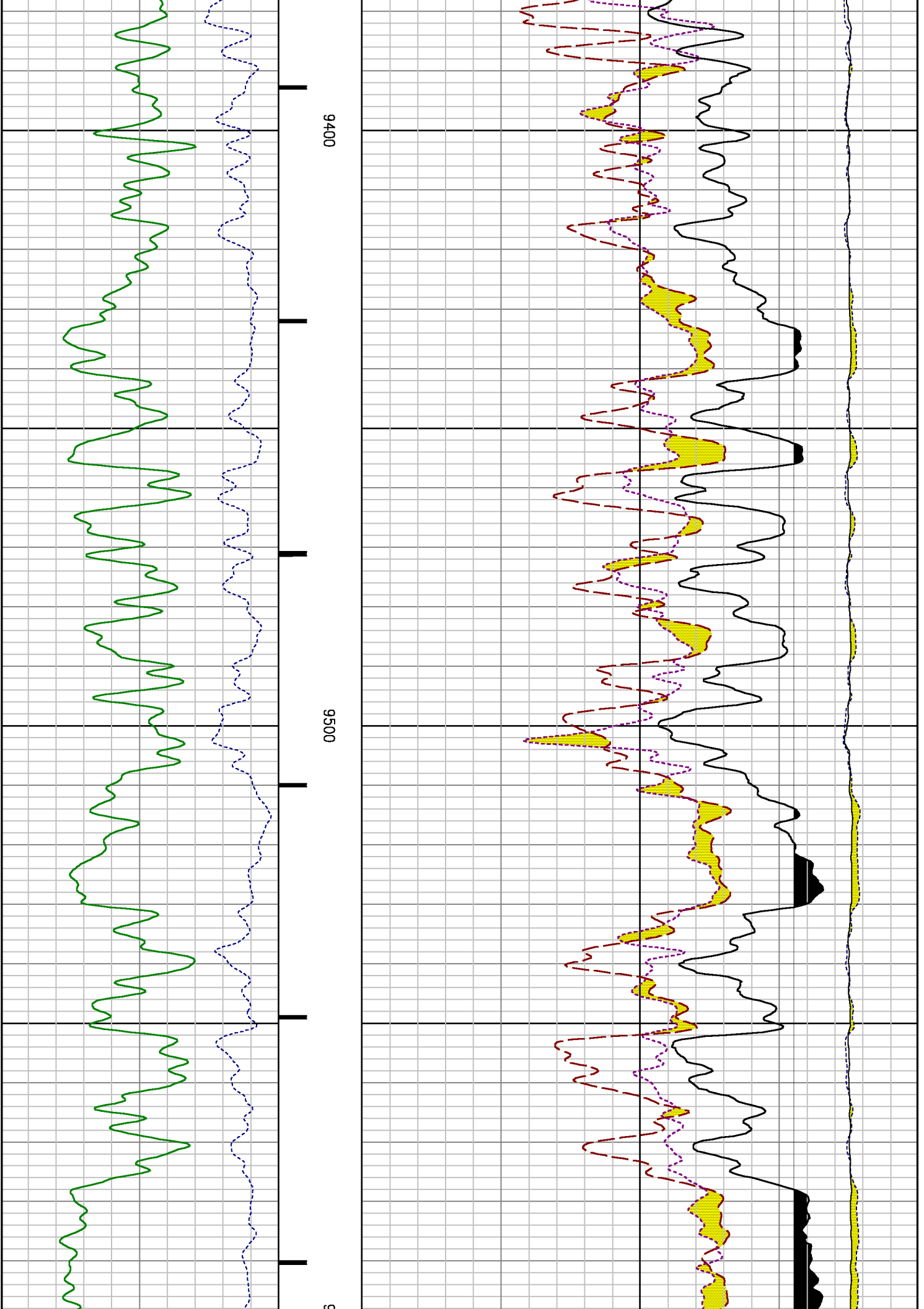


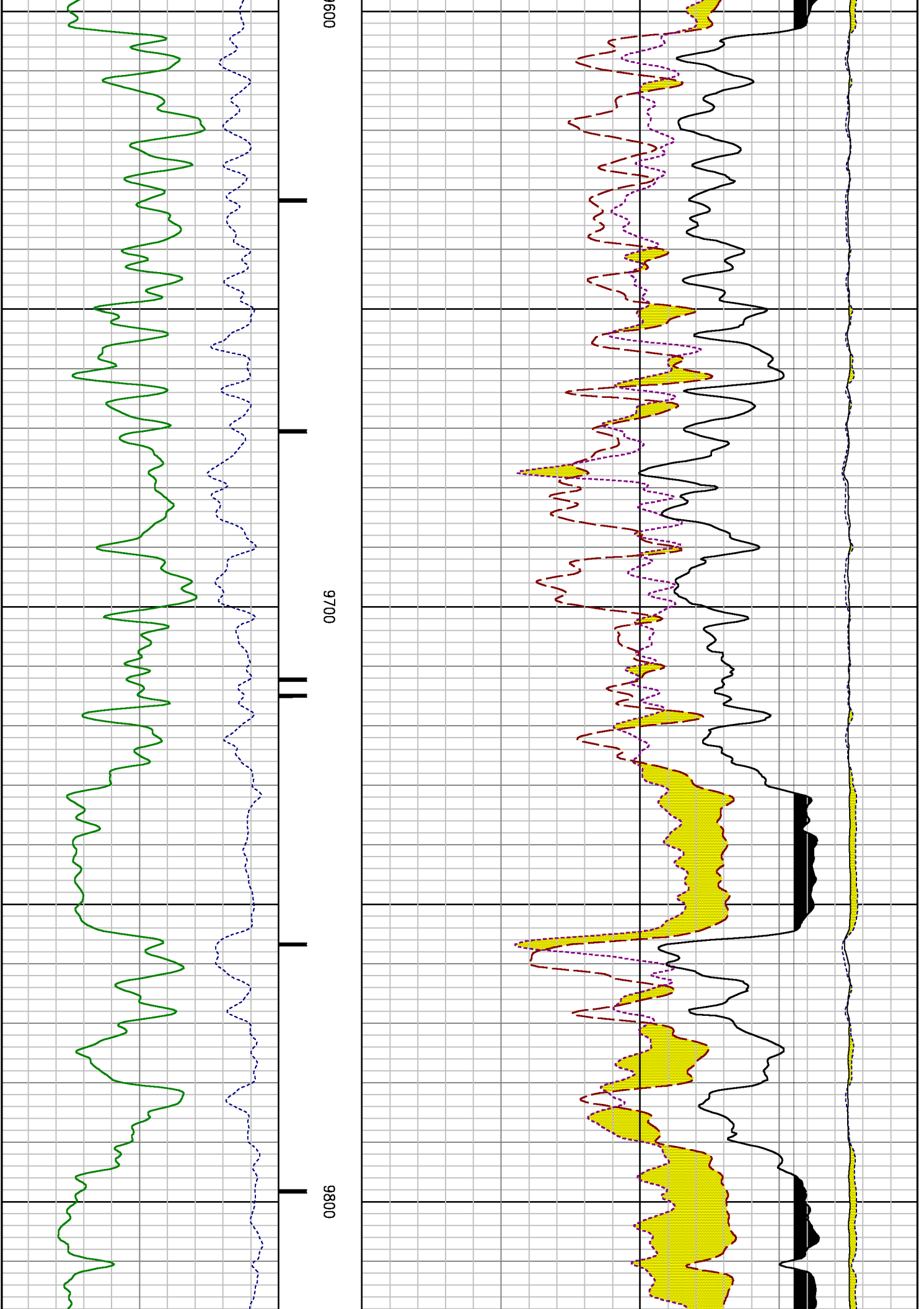


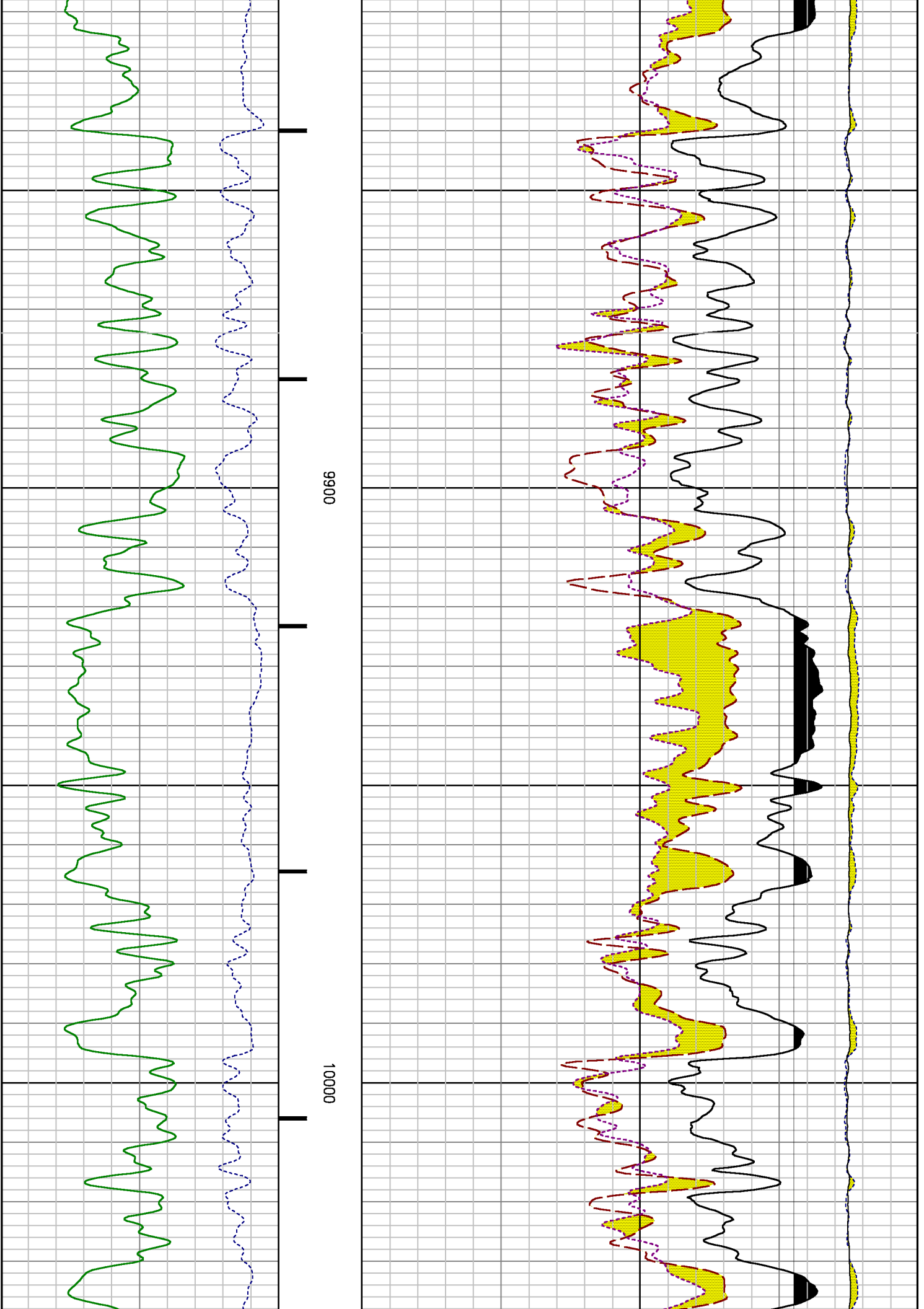


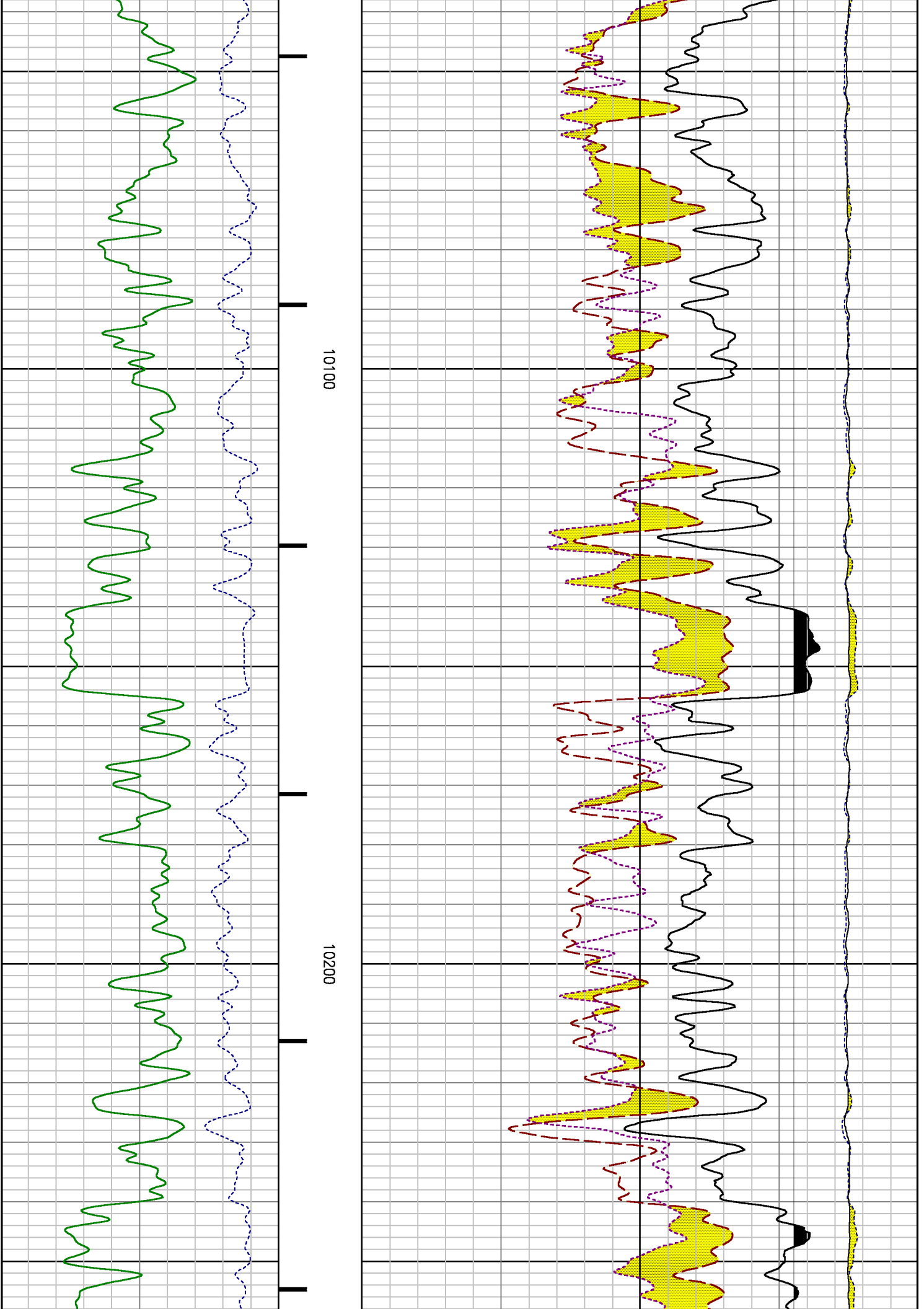


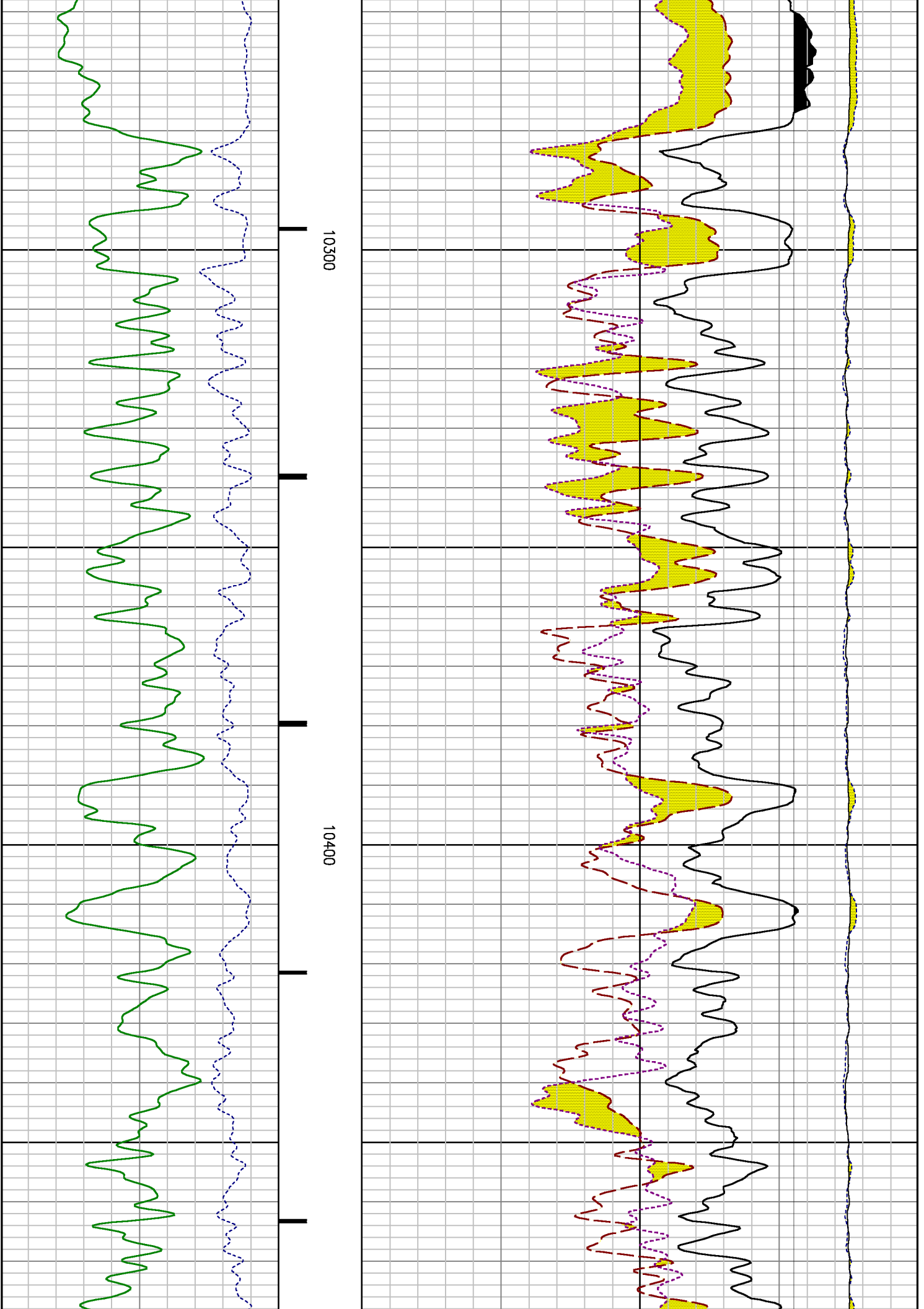


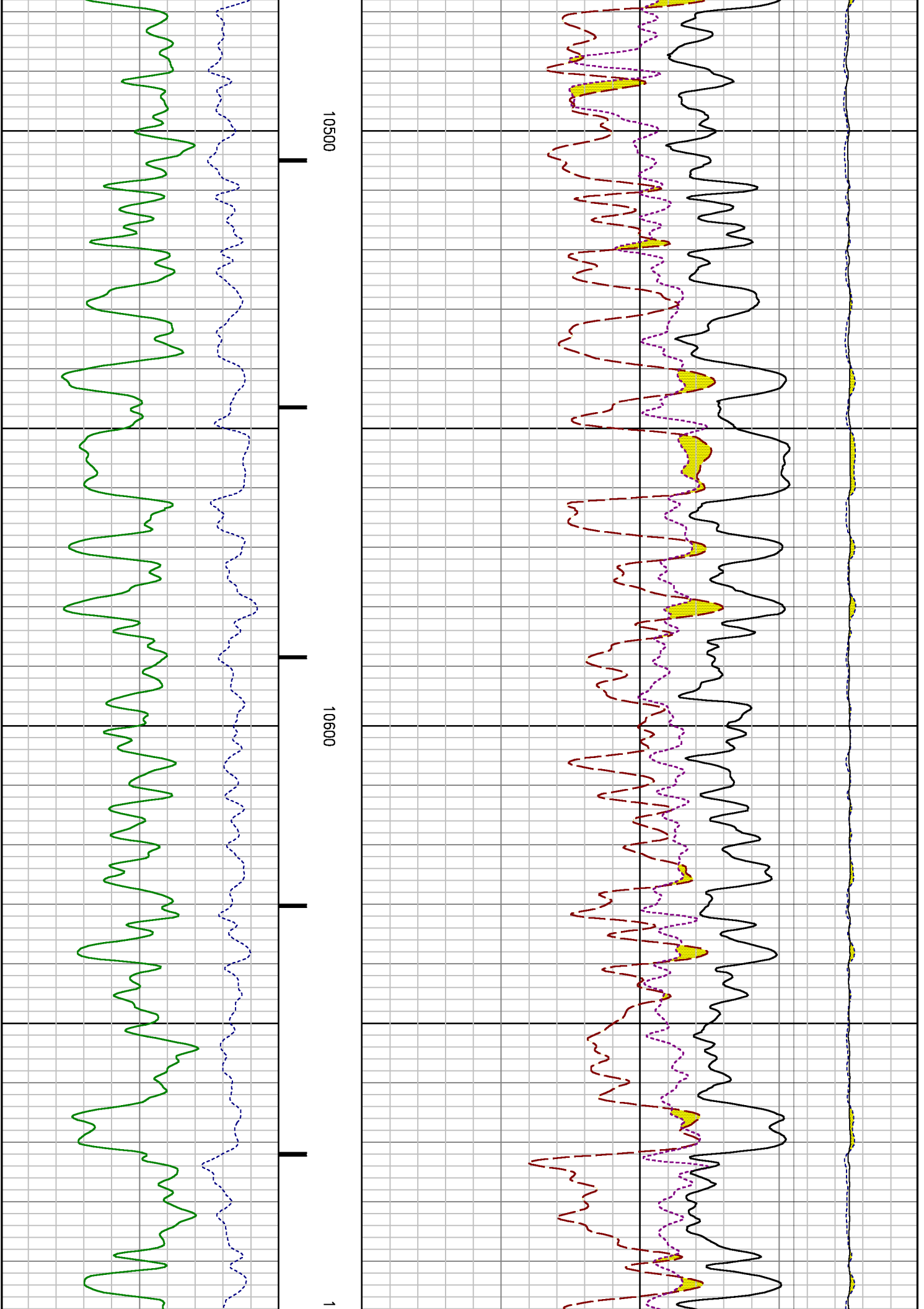


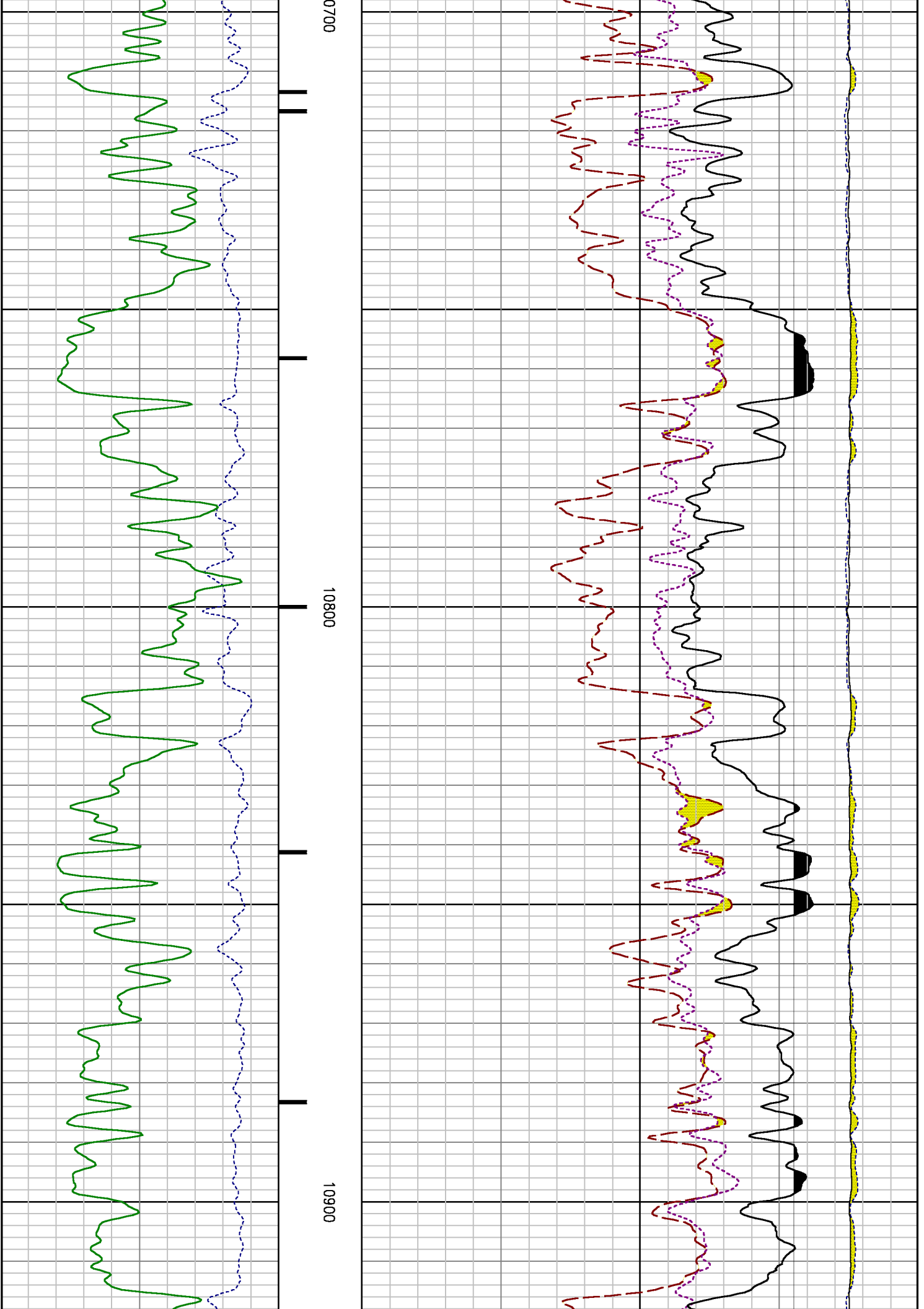


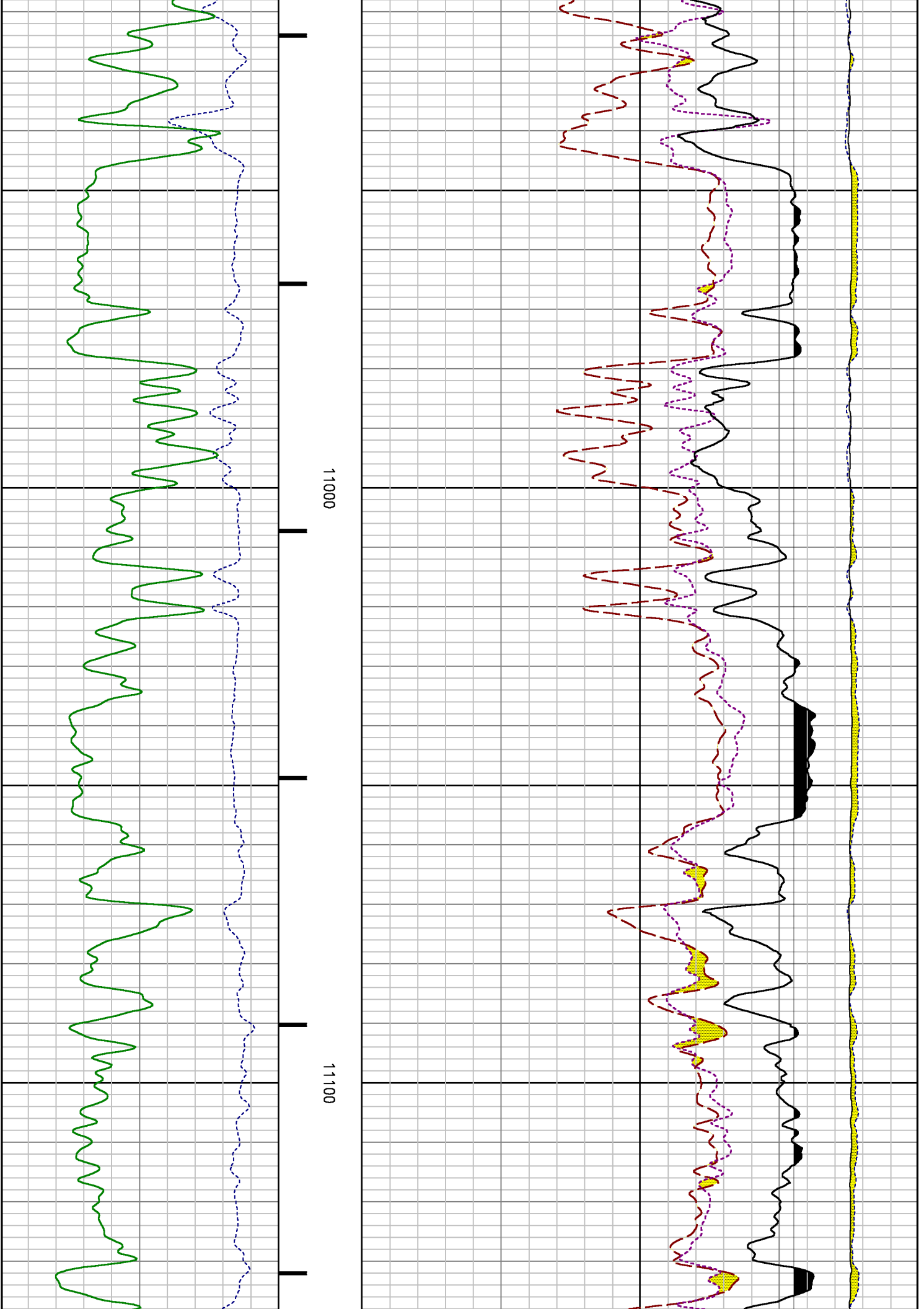


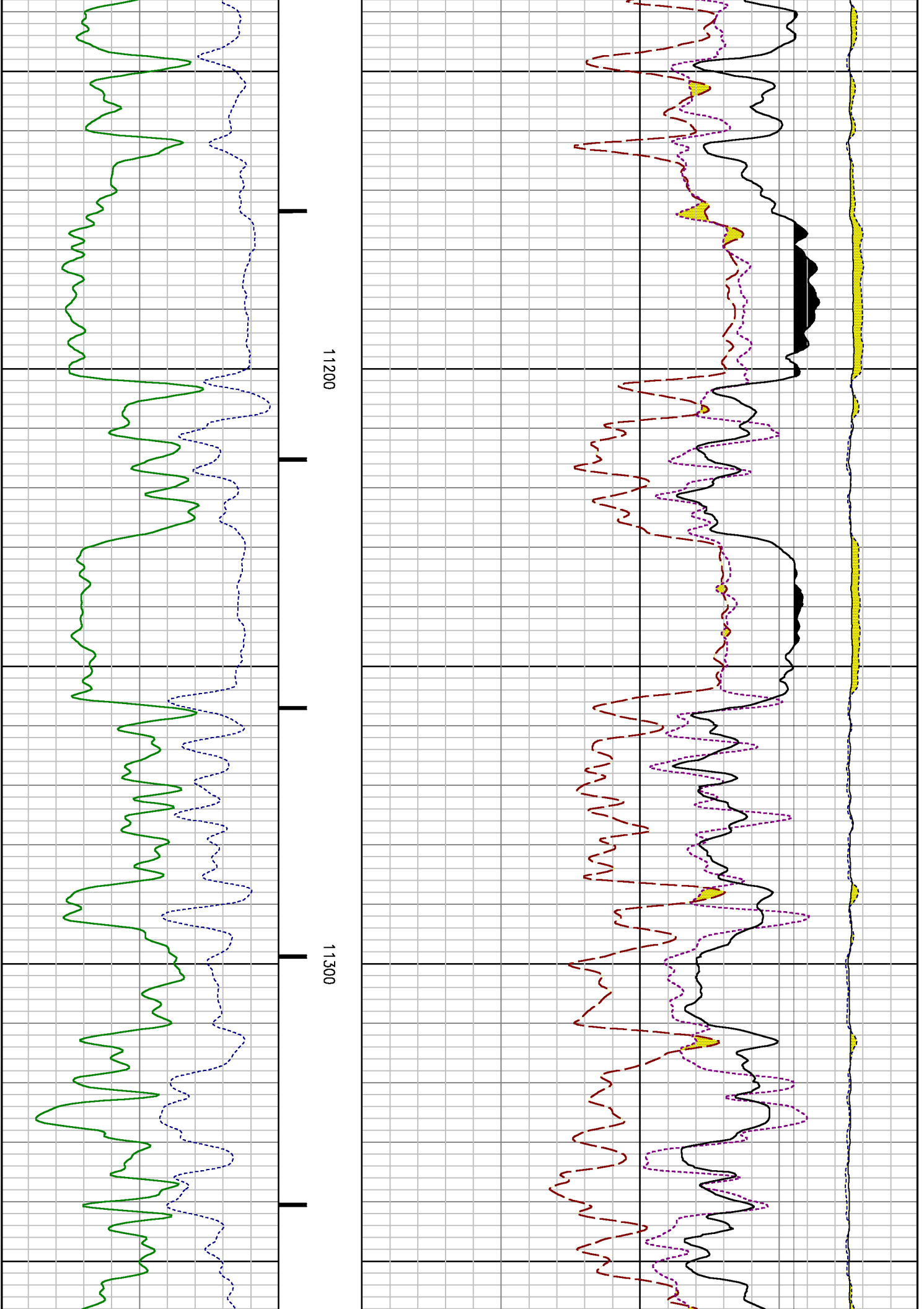


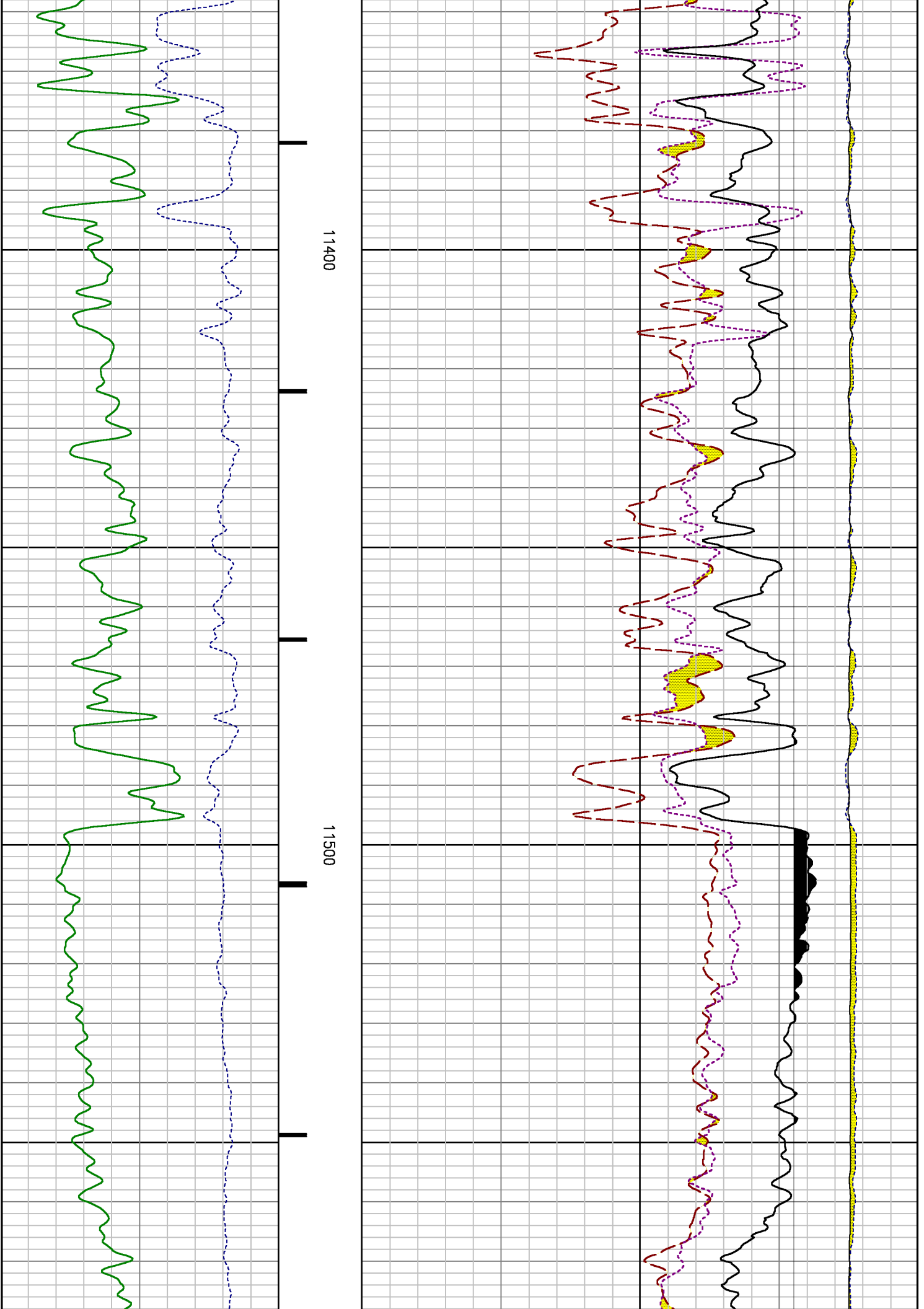


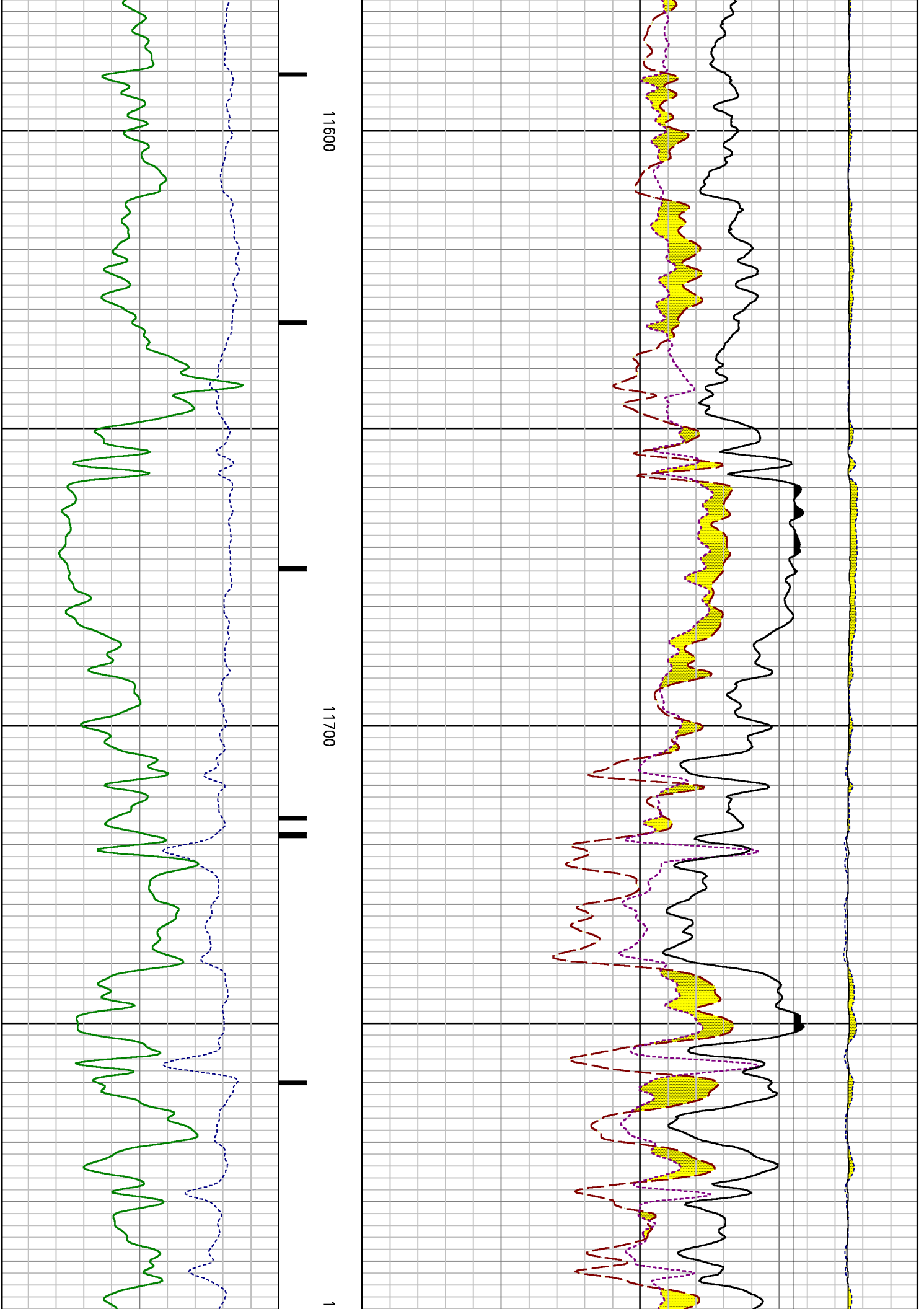


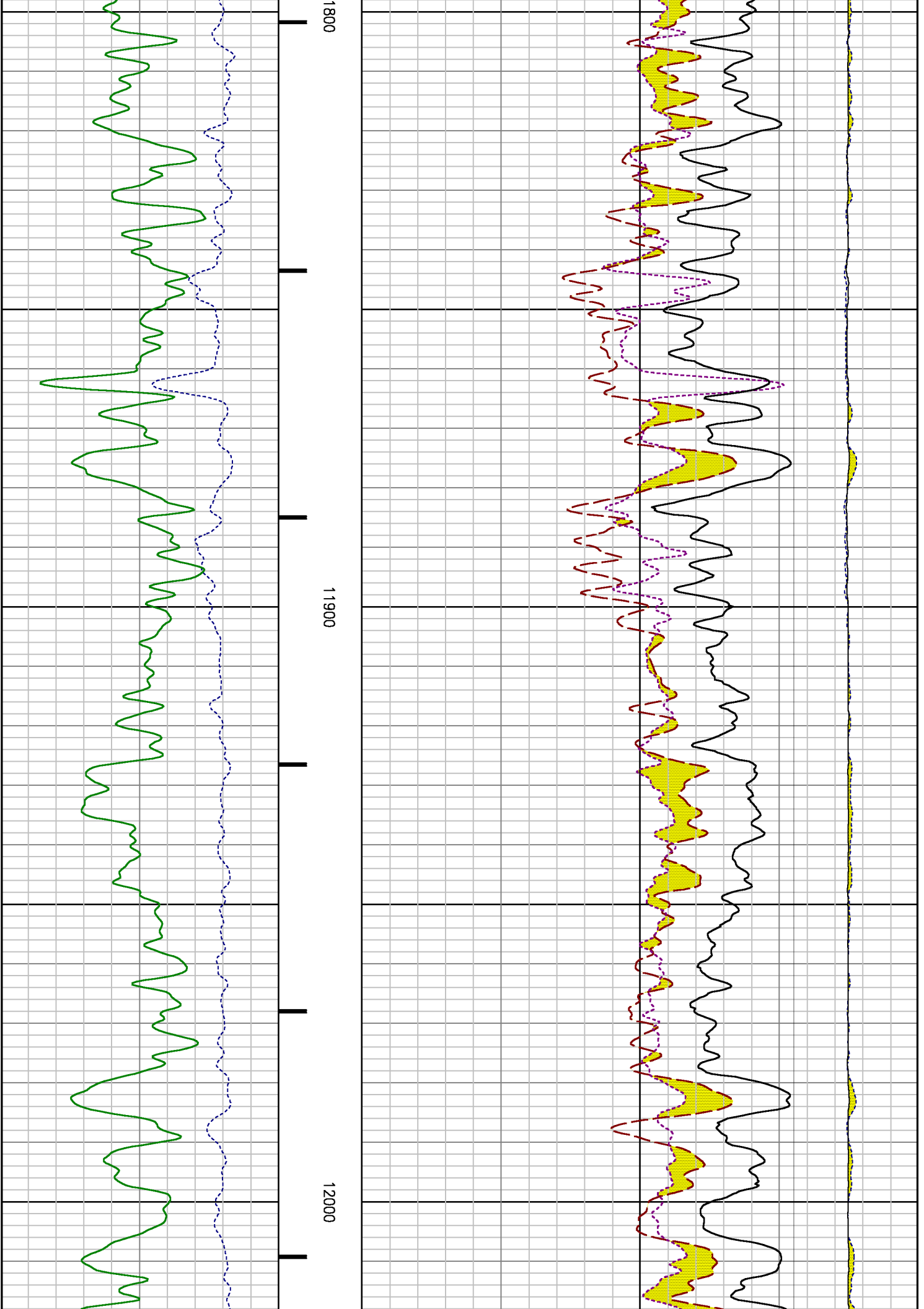


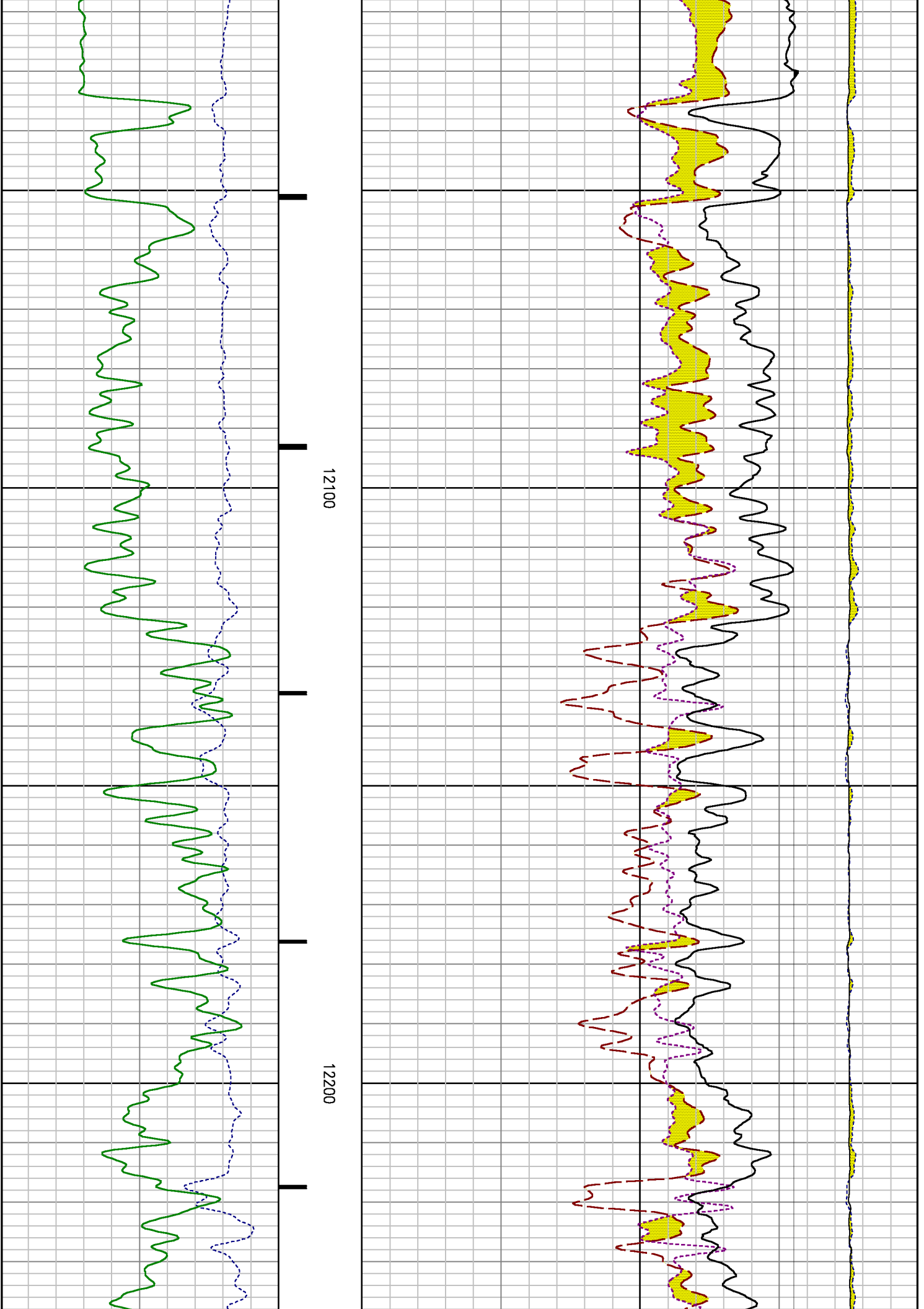


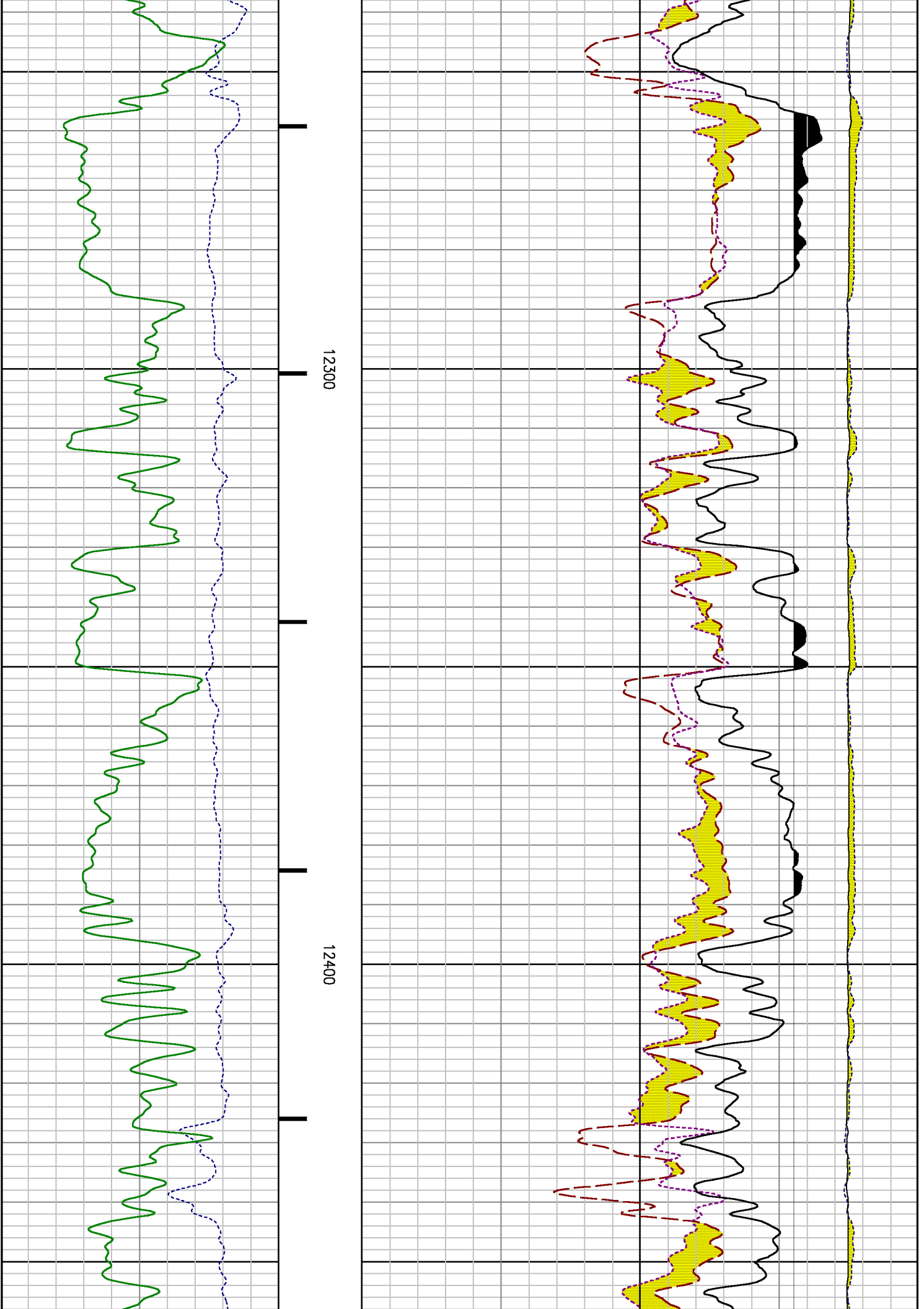


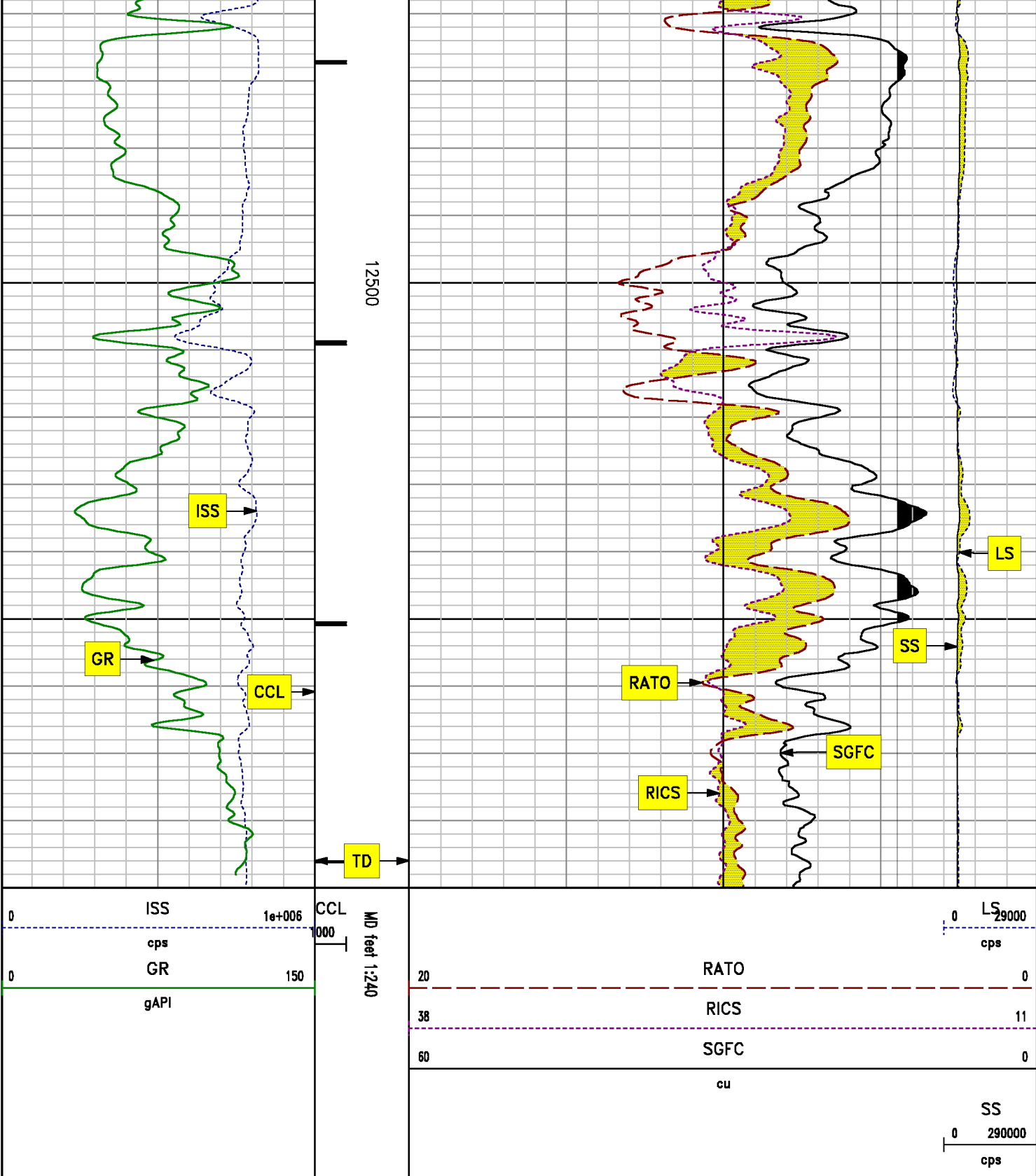












REPEAT SECTION

SPL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
PNC Porosity	Borehole	Cased		12097.629	12610.504
PNC Porosity	Borehole Size	6.125	inch	12097.629	12610.504
PNC Porosity	Casing Size	4.500	inch	12097.629	12610.504
PNC Porosity	Gas Filled	Non Gas Filled		12097.629	12610.504
PNC Porosity	Matrix	Sandstone		12097.629	12610.504

DEPTH OFFSETS (for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
8248EA	-15.470	FLTM					
8248EA	-13.470	CCL	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	RAT023
		RICXC	RIN13C	RIN23	RIN23C	SD3D	SG3D
		SGB3	SGF3	WDTH3	CXSR	IXSR	XSR
		RICXR					
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	MV	SEQ	SEQ1	AMA1
		AMB1	AME1	AMF1	AML1	BKS	CHF1
		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	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	HOC	FE2XC	ISSC	RINC
ISSN	RDEN	WDTH1	RICSC	CSSR	G1R
G2R	ISSR	SSR	SS2R	RATOR	RAT013R
RBORR	RICSR	RINR	RIN13R	RONER	RPORR
RTWOR					
TEN	TTEN				

SYSTEM

0.000

Created by : RPM9, v5.0.0.0

Plotted by : PlotMgr, v5.4.504

Company : EXXONMOBIL PRODUCTION COMPANY

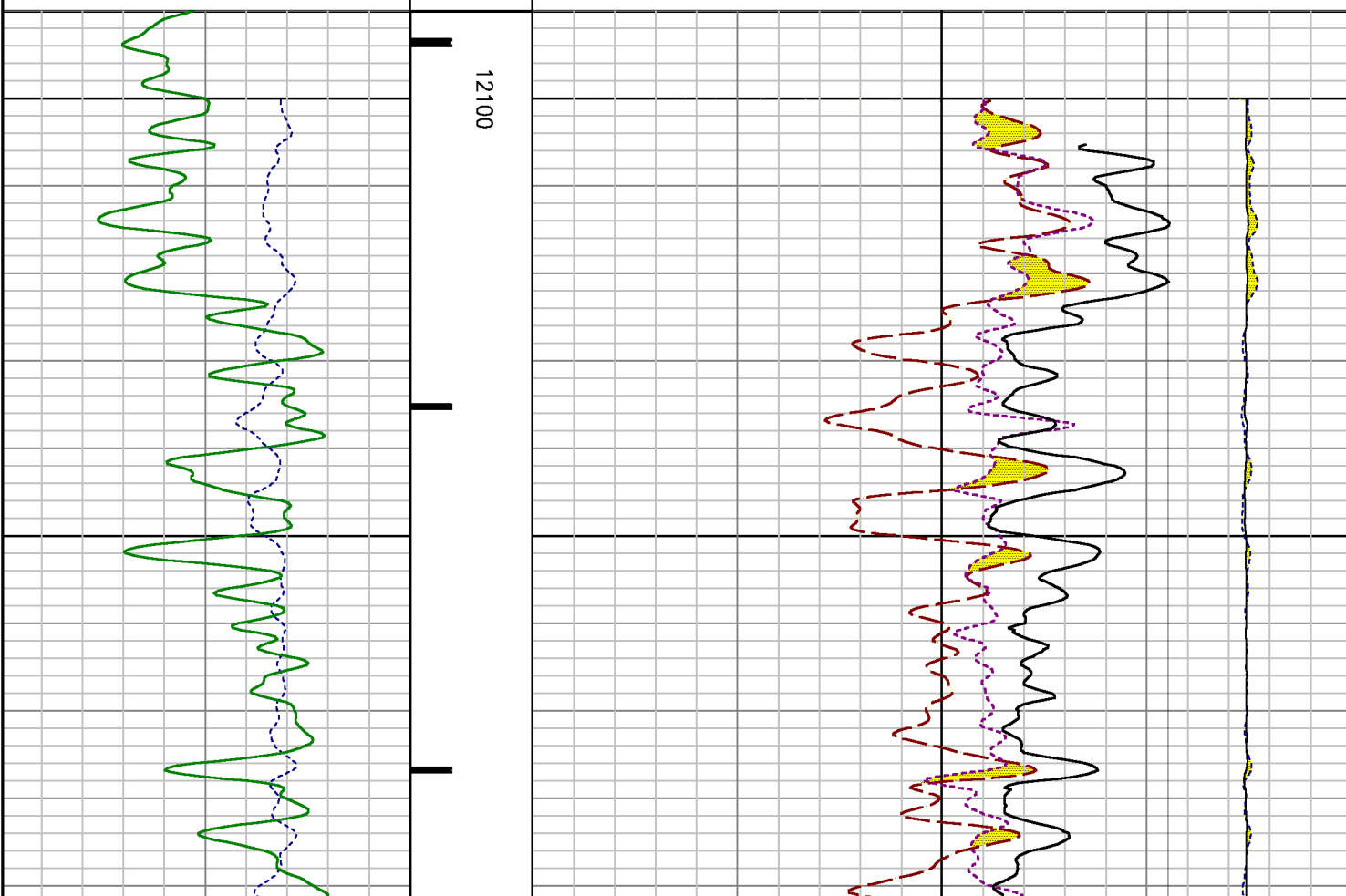
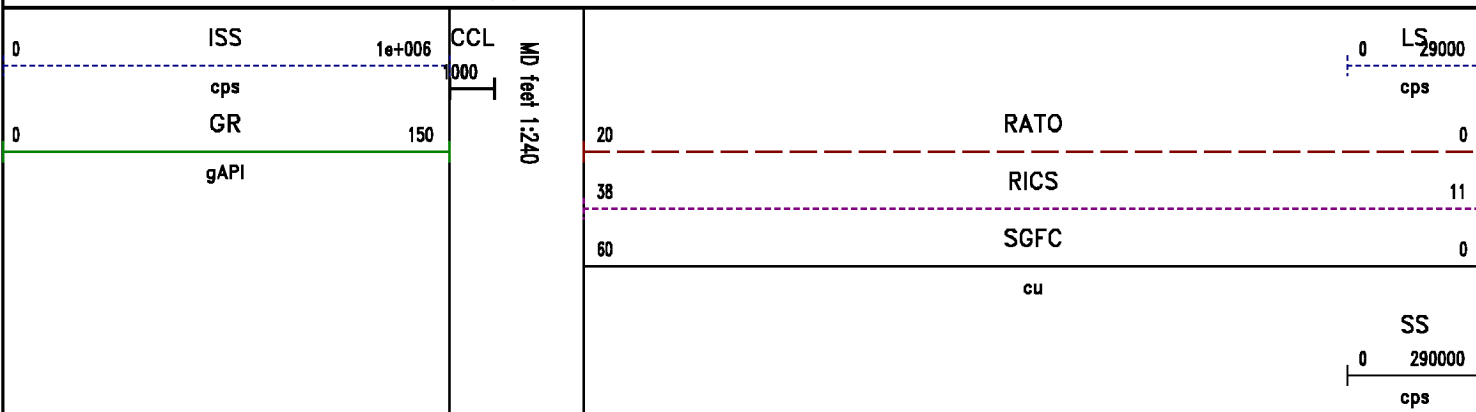
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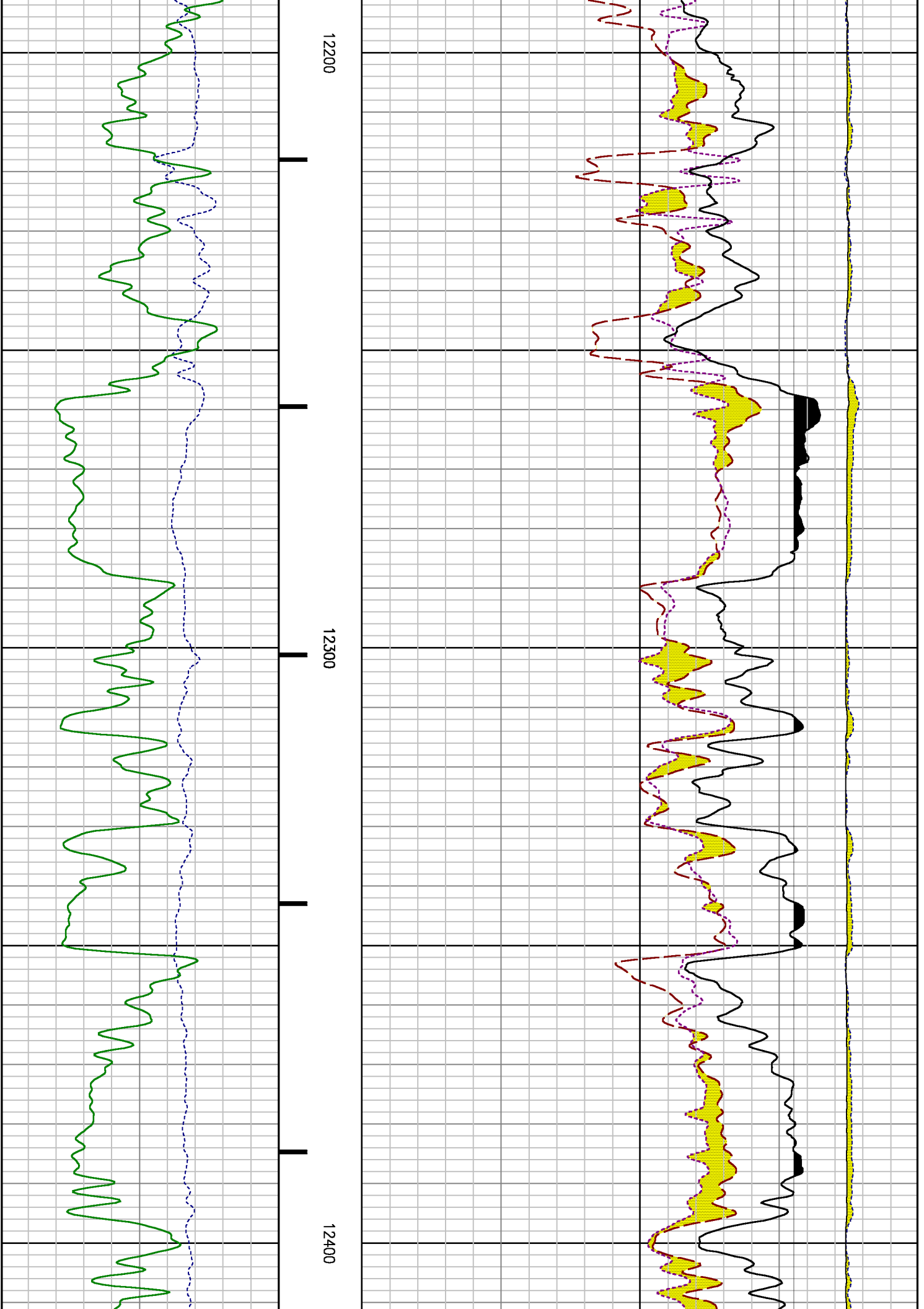
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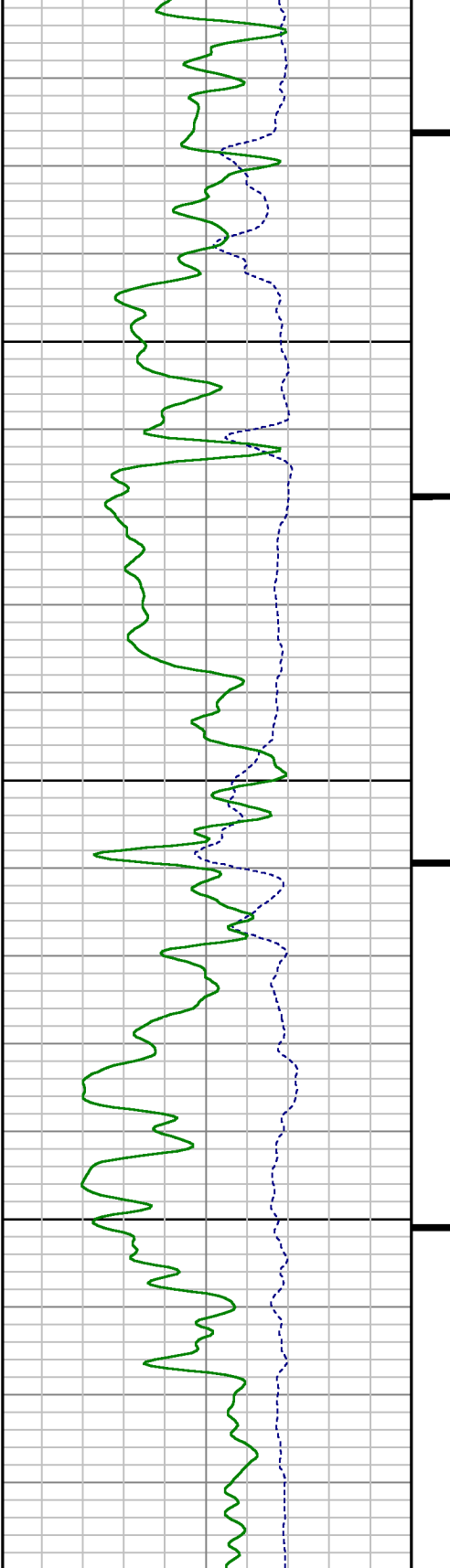
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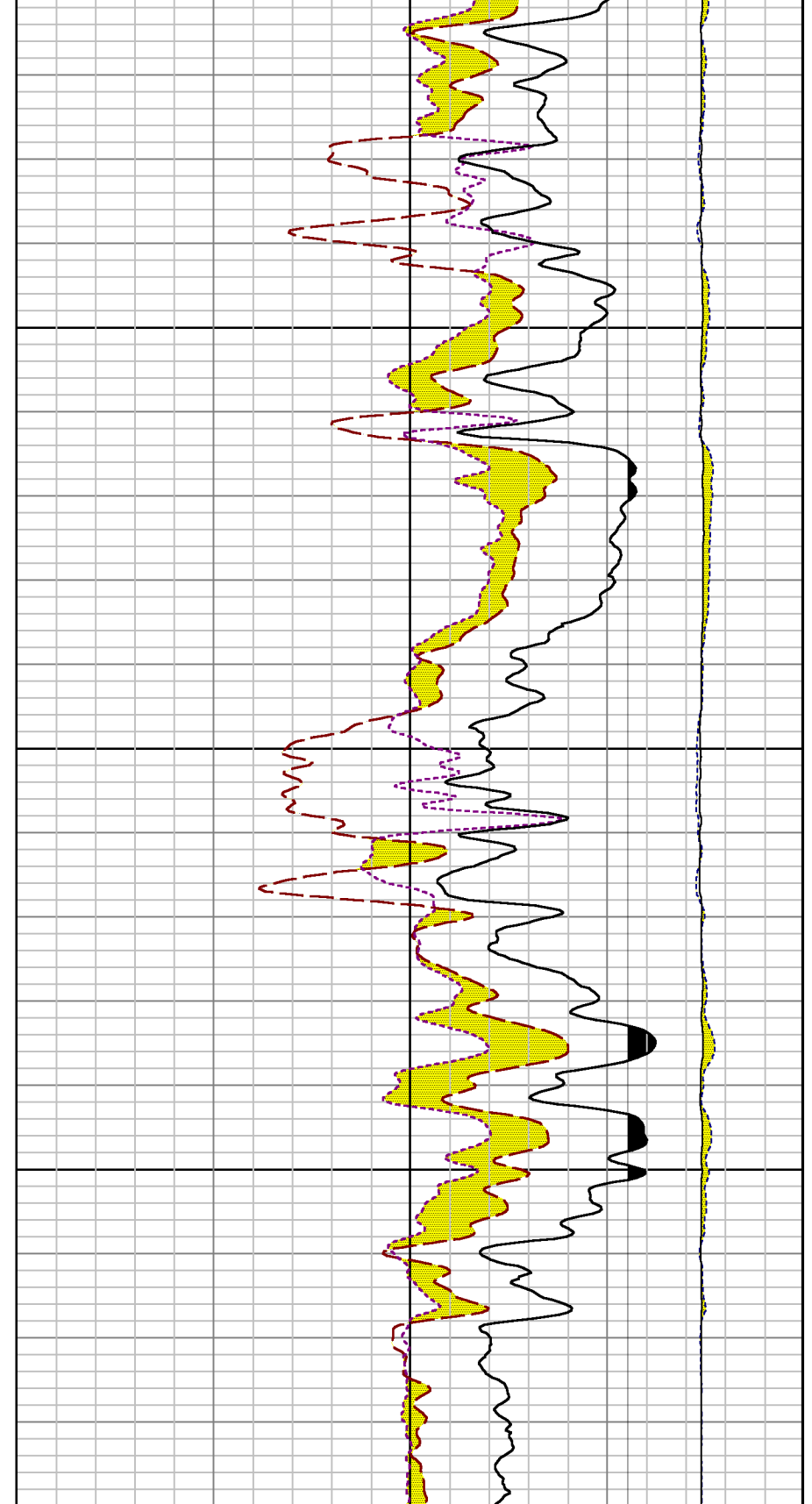




12500

0	ISS	1e+006	CCL
	cps		1000
0	GR	150	
	gAPI		

MD feet 1:240



0	SS	290000	
	cps		
20	RATO		0
38	RICS		11
60	SGFC		0
	cu		

CALIBRATION SUMMARY

GAMMA RAY

Calibration File: C:\case\calver\GR\270M1.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Feb 26 11:29:40 2010 TOOL SERIES: 8262XA ASSET: 270 SEQ: M1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K DA612	85.93	409.51	0.556	47.80	227.80	180.00

Verification File: C:\case\calver\GR\270M1.VP

PRIMARY VERIFICATION

DATE/TIME PERFORMED: Fri Feb 26 11:32:48 2010 TOOL SERIES: 8262XA ASSET: 270 SEQ: M1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K DA612	86.47	413.56	0.556	48.10	230.05	181.95

PNC

Calibration File: C:\case\calver\PNC\251M1.cal

PNC 3D CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Feb 26 07:59:30 2010 TOOL SERIES: 8281XA ASSET: 251 SEQ: M1

Calibrator #

SHOP SHOP

Source #

8281AA 10148478

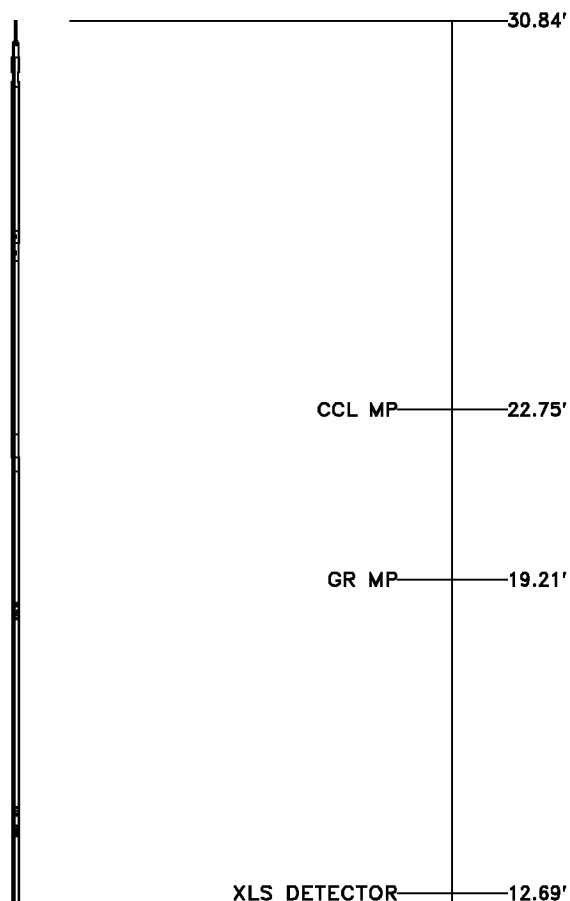
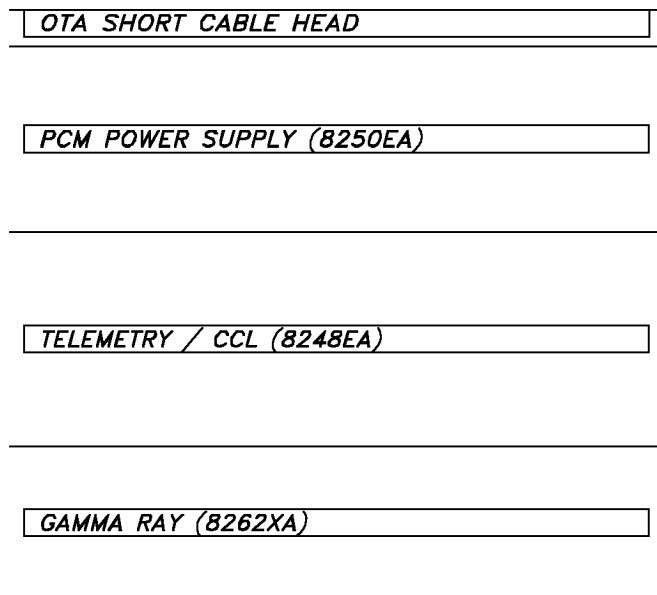
	ISS	Mtr Vlt (V)	SS Gain	LS Gain	XLS Gain	EA Temp (degF)	Sync Delay (usec)	RCAL
Raw Data	824266	128.00	2249.31	2234.00	2242.00	106.40	15.00	0.9663
Interpolated	1300000	151.85	2226.58	2227.83	2237.81			

	ISS	BKS	BKL	BKX	SGA1	SDA1	SGA2	SDA2
Raw Data	824266	7923.93	1292.88	568.15	25.83	0.13	24.52	0.26

	ISS	ILS	IXS	SS	SS2	LS	CSS	CLS
Raw Data	824266	177457.83	27991.21	103286.70	36746.49	9425.08	62625.89	15140.39
Fit Quality %		0.75	0.97	1.10	1.13	0.77	1.03	0.80

	ISS	RBOR		RIN ISS/ILS		RIN13 ISS/IXS		RICS ISS/CSS		RATO SS/LS		RTWO SS2/LS		RONE CSS/CLS	
Raw Data	824266	1.43		4.64		29.45		13.16		10.96		3.90		4.14	
		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 %		0.08		0.38		0.28		0.12		0.30		0.32		0.27	
Reduced	1395834	1.44		4.69		29.74		13.27		10.96		3.90		4.14	
		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



RESERVOIR PERFORMANCE MONITOR (8281XA)

LS DETECTOR 9.72'
 SS DETECTOR 9.49'

0.00'

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



Company EXXONMOBIL PRODUCTION COMPANY
Well PCU 197-34B10
Field PICEANCE CREEK
County RIO BLANCO **State** COLORADO

File No:
 1688
API No:
 045-103-11146-00

Baker Atlas



Location
 788' FSL & 963' FEL
 SEC 34 TWP 1S RGE 97W

Elevations
 KB 6677.2 ft
 DF 6676.2 ft
 GL 6647 ft