

Baker Atlas		COMPENSATED Z-DENSLOG COMPENSATED NEUTRON LOG GAMMA RAY LOG CALIPER LOG	
License: 1343 UWI: 06-081-07363	Company: WEXPRO COMPANY Well: STEWART #5 Field: POWDER WASH Province: MOFFAT	Location: 1,825' FEL 238' FNL NWNE SEC 32 TWP 12N RGE 97W G.L. Elevation 6701.0 ft K.B. 13.5 ft Above P. D. Drill Measured From KELLY BUSHING	Other Services: ZDL-CN-GR ML ZDL-GR-CAL KB 6714.5 ft DF N/A GL 6701.0 ft
RIG TIME: THANK YOU			
Permanent Datum Log Measured From Drill Measured From			
DATE: 21/AUG/07			
SERVICE ORDER: 533981		RUN# 0	
DEPTH DRILLER: 8391.0 ft			
DEPTH LOGGER: 3965.0 ft			
BOTTOM LOGGED INTERVAL: 3935.0 ft			
TOP LOGGED INTERVAL: 495.0 ft			
CASING DRILLER: 499.0 ft		CASING SIZE: 9.625 in	
CASING LOGGER: 495.0 ft			
BIT SIZE: 7.875 in			
TYPE OF FLUID IN HOLE: WATER			
FLUID DENSITY: 10.20 lbm/gal		VISCOSITY: 53.00 cp	
pH: 10.00		FLUID LOSS: 7.20 cc	
SOURCE OF SAMPLE: FLOWLINE			
RM @ MEAS. TEMP.: 1.61 ohm-m		91.67 degF	
RMf @ MEAS. TEMP.: 1.58 ohm-m		91.07 degF	
Rmc @ MEAS. TEMP.: 1.68 ohm-m		93.70 degF	
SOURCE OF RMF: RMF		MEASURED	
RM AT BHT: 1.16 ohm-m		117.60 degF	
TIME SINCE CIRCULATION: 15 HOURS			
MAX. RECORDED TEMP.: 118.00 degF			
EQUIP. NO.: 4214		LOCATION: GRAND JUNCTION	
RECORDED BY: G. OYENIKAN			
WITNESSED BY: FRANK SHATTUK			

- 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
7.875 in	499.0 ft	8391.0 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in	36.00 lbm/ft	J-55	0.0 ft	499.0 ft

Remarks
STOPPED CIRCULATING @ 6:30PM AUG 21 2007 HOLE VERY STICKY, DID NOT MAKE T.D. HDIL=ZDL-CN-GR-XCAL-ML recorded in combination. BKVL and CVOL are calculated from a single x-axis(ZDL) caliper only BKVL = Total Borehole Volume

CYOL = Total Cement Volume.

Small Tick(s) = 10.0 cubic feet.

Medium Tick(s) = 100.0 cubic feet.

Large Tick(s) = 1000.0 cubic feet.

RIG: UNIT DRILLING 137 CREW: DANKLESON/HOWERTON

PORZ and CNG recorded and presented in Sandstone Matrix: TD – SC.

POROSITY %, GRAIN DENSITY 2.85

Equipment Data

<i>Trip</i>	<i>Operation</i>	<i>Tool</i>	<i>Series Number</i>	<i>Serial Number</i>	<i>Position</i>
1	1	Cablehead	FCBLHD		FREE
1	1	Swivel	3950XA	10145884	FREE
1	1	TTMA	3980XA	10138909	FREE
1	1	Telemetry	3618XA	10110804	FREE
1	1	Gamma Ray	3618XG	10110804	FREE
1	1	Comp. Neutron	2436XA	10090668	DECENTRALIZED
1	1	Z-Density	2223XA	10137837	DECENTRALIZED
1	1	Knuckle	3930XA	10139400	KNUCKLE JOINT
1	1	Knuckle	3930XA	10163289	KNUCKLE JOINT
1	1	Minilog	1114XB	00044338	DECENTRALIZED
1	1	Knuckle	3930XA		KNUCKLE JOINT
1	1	Knuckle	3930XA		KNUCKLE JOINT
1	1	Induction	1530XA	10139552	ECCENTERED
1	1	Pineapple	PINEAP		FREE

POROSITY LOG 5" / 100 FT SCALE

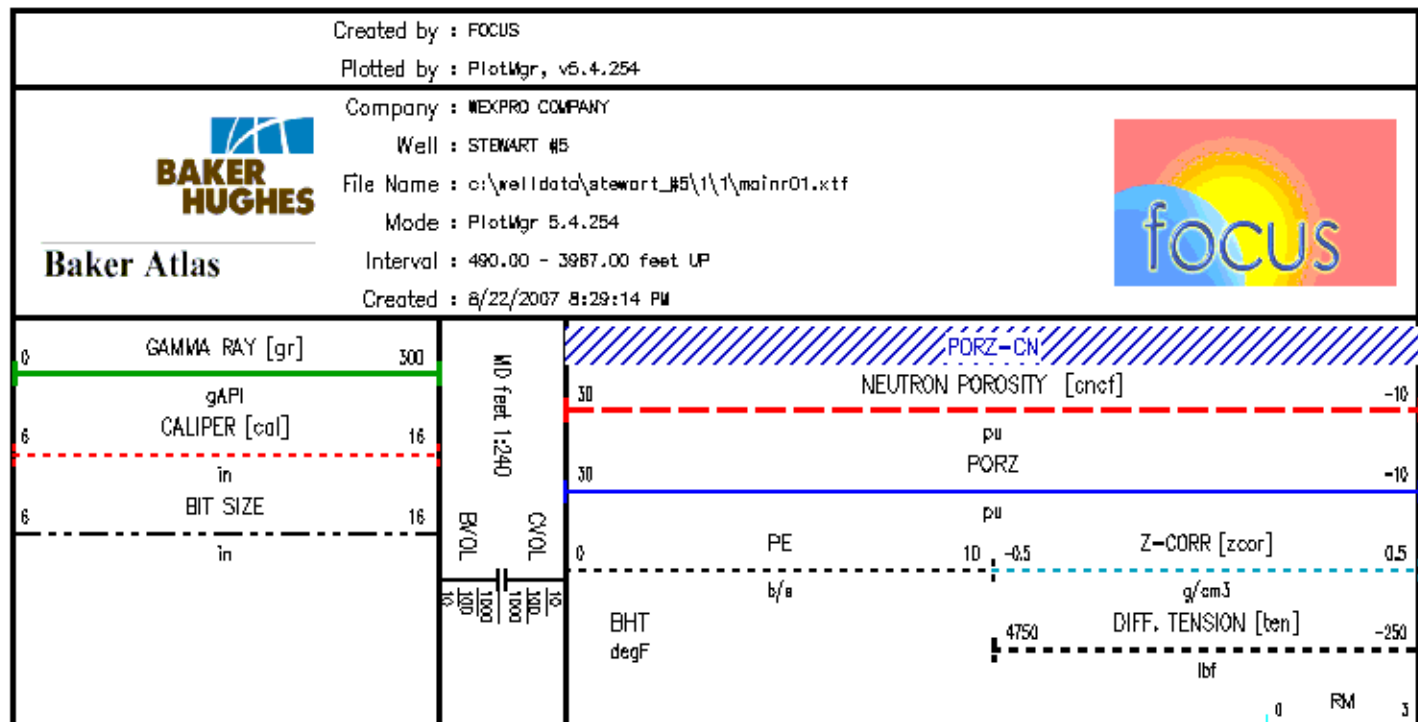
Parameter & Filter History Report

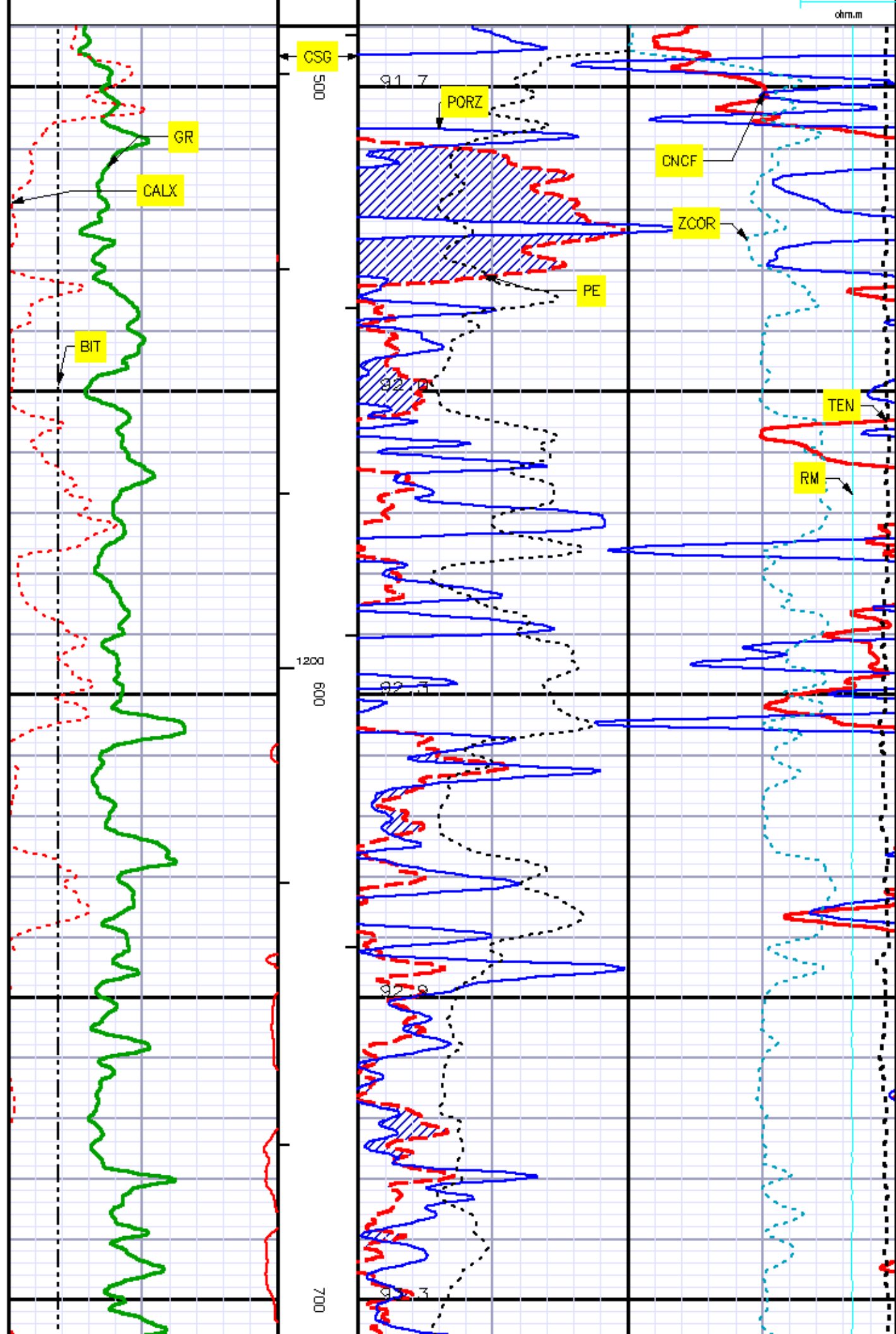
FILE: C:\Welldata\STEWART_#5\1\1\MAINR01.prm
TIME COMPLETED: August 22, 2007 20:50
LOGGING MODE: DEPTH UP
TOP DEPTH: 5.1 ft BOTTOM DEPTH: 3987.1 ft

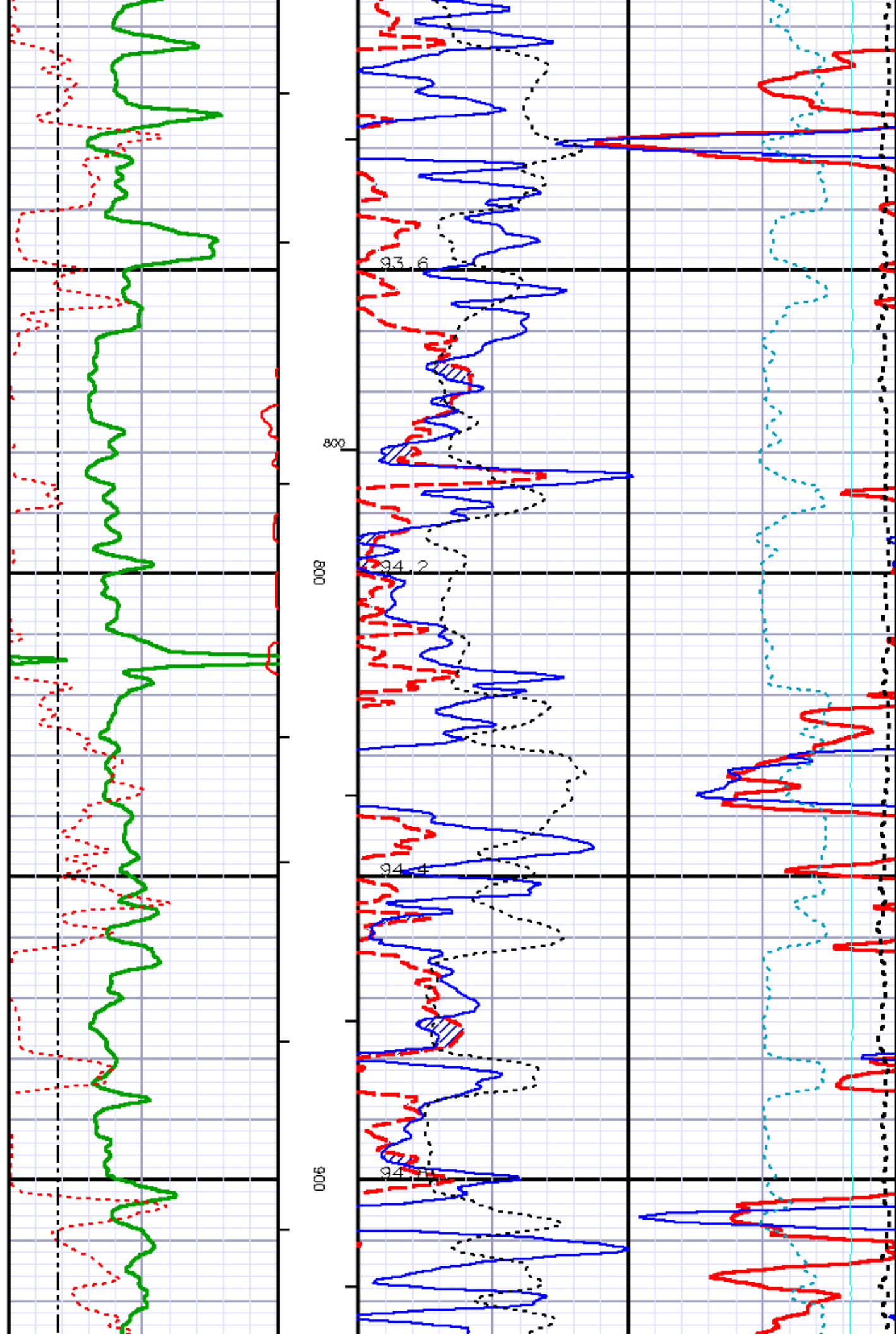
Filters

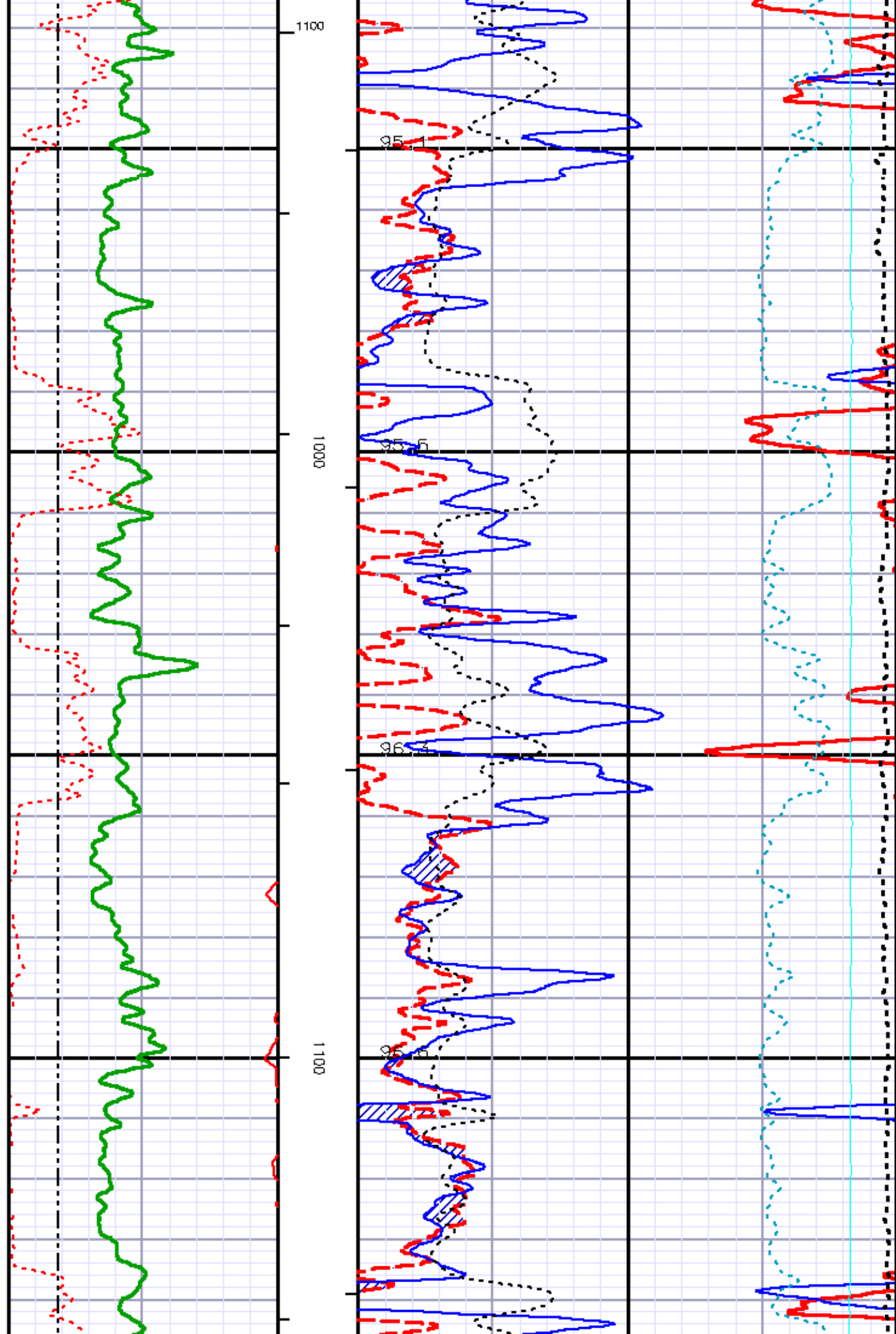
Curve	Tool	Filter	Top	Bottom
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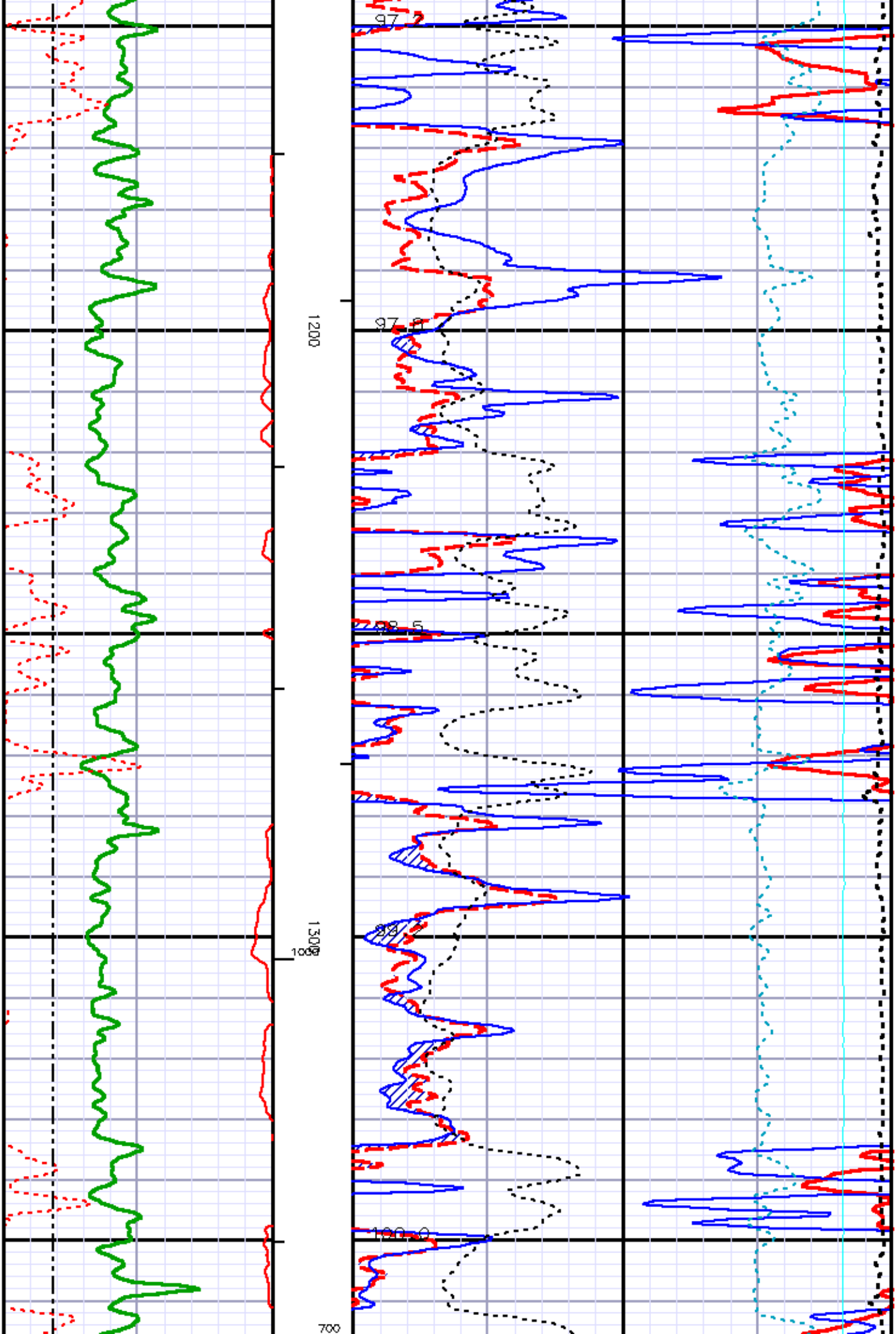
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
SPD	0.0	SPDGR	0.0	TEN	0.0	TENGR	0.0
TTEN	0.0	TTENGR	0.0				
Curve Measure Point Offset [GR]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
GR	-48.5						
Curve Measure Point Offset [HDIL]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
M2R1	-3.2	M2R2	-3.2	M2R3	-3.2	M2R6	-3.2
M2R9	-3.2						
Curve Measure Point Offset [ML]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
CALM	-18.3	RLML	-18.3	RNML	-18.3		
Curve Measure Point Offset [TEL]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
SP	-1.7						
Curve Measure Point Offset [TTMA]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
CHT	0.0	CHTGR	0.0	MDTWP	-54.7		
Curve Measure Point Offset [ZDEN]							
CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
CALX	-33.8	FE	-31.0	PORZ	-31.0	ZDEN	-31.0

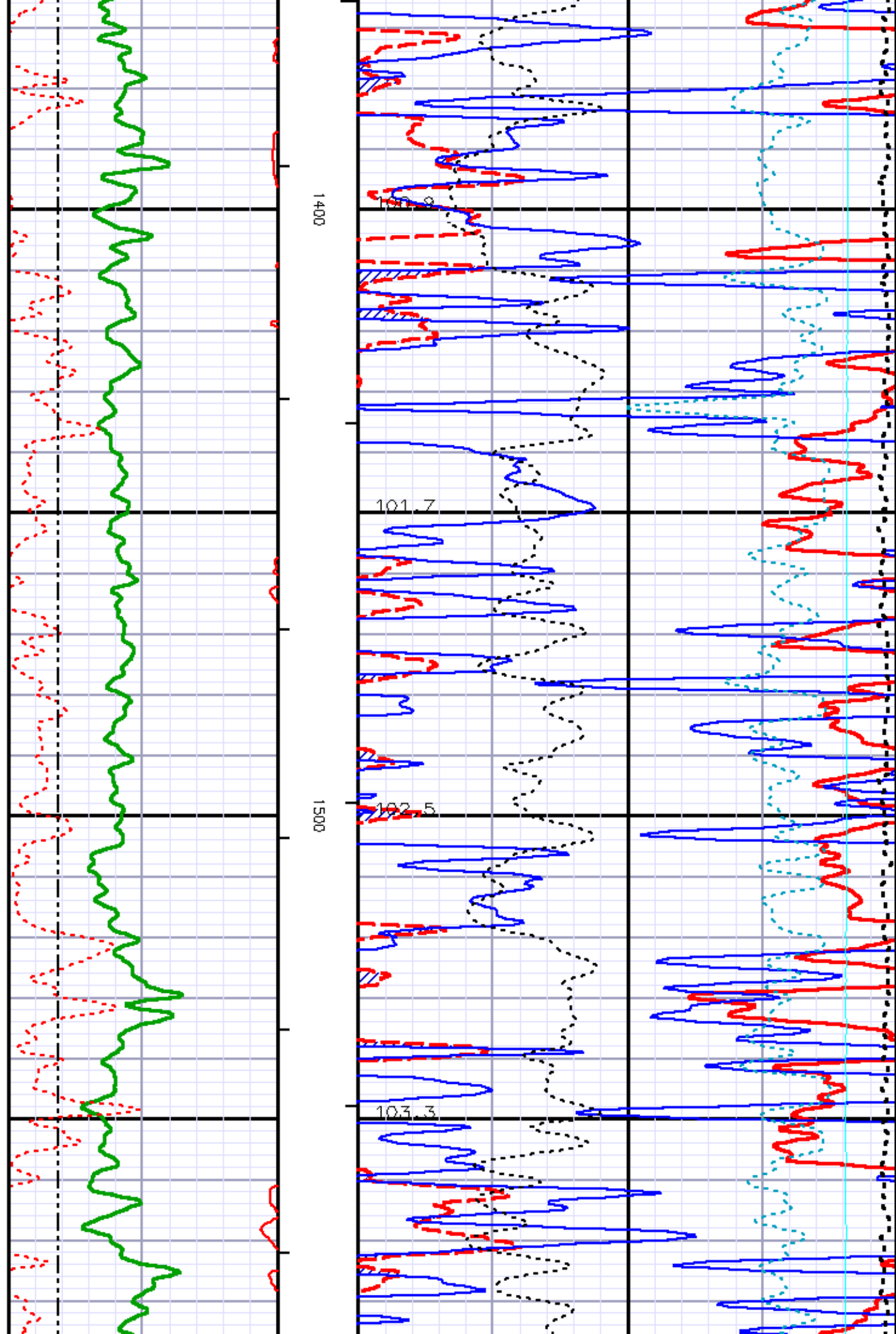


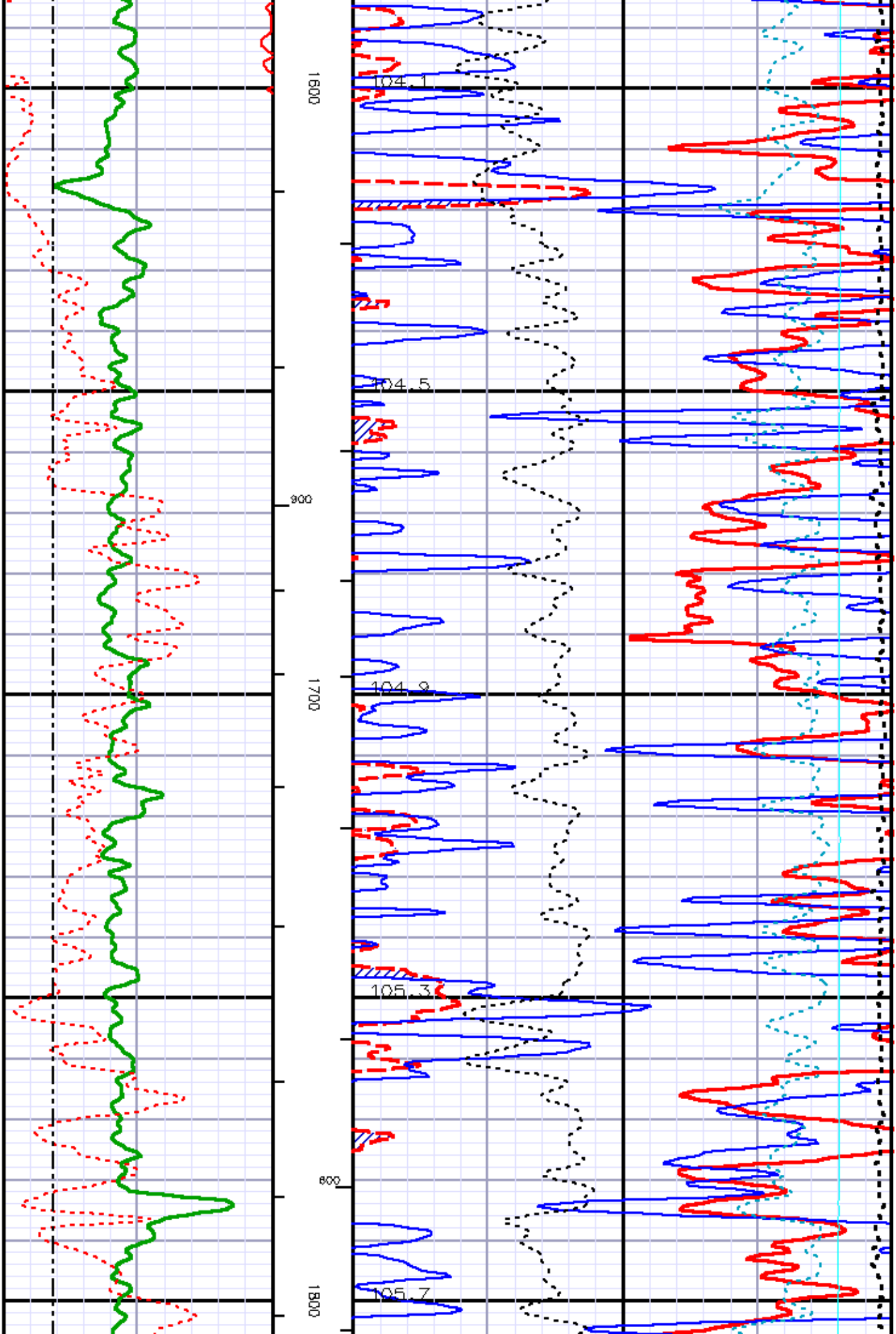


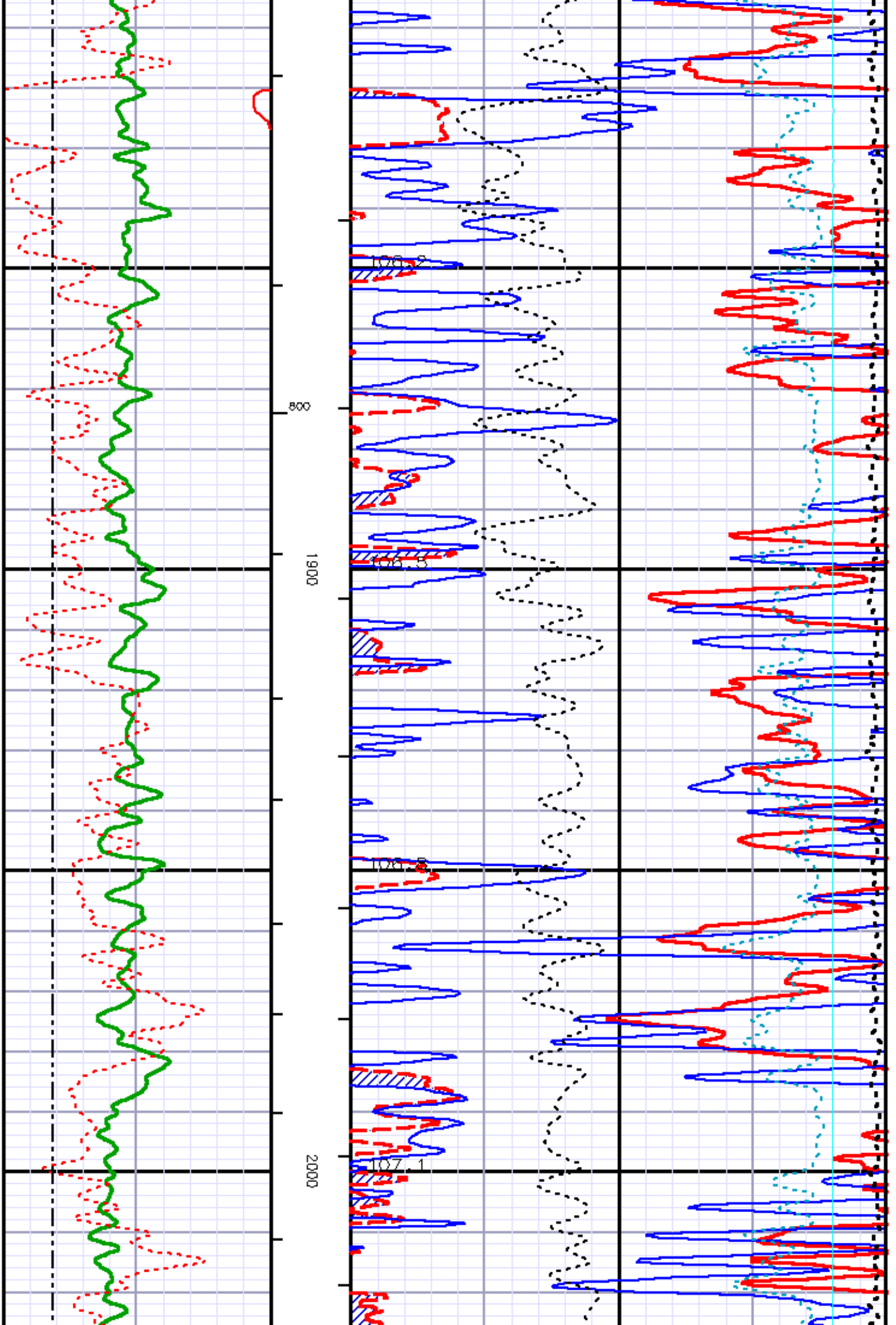


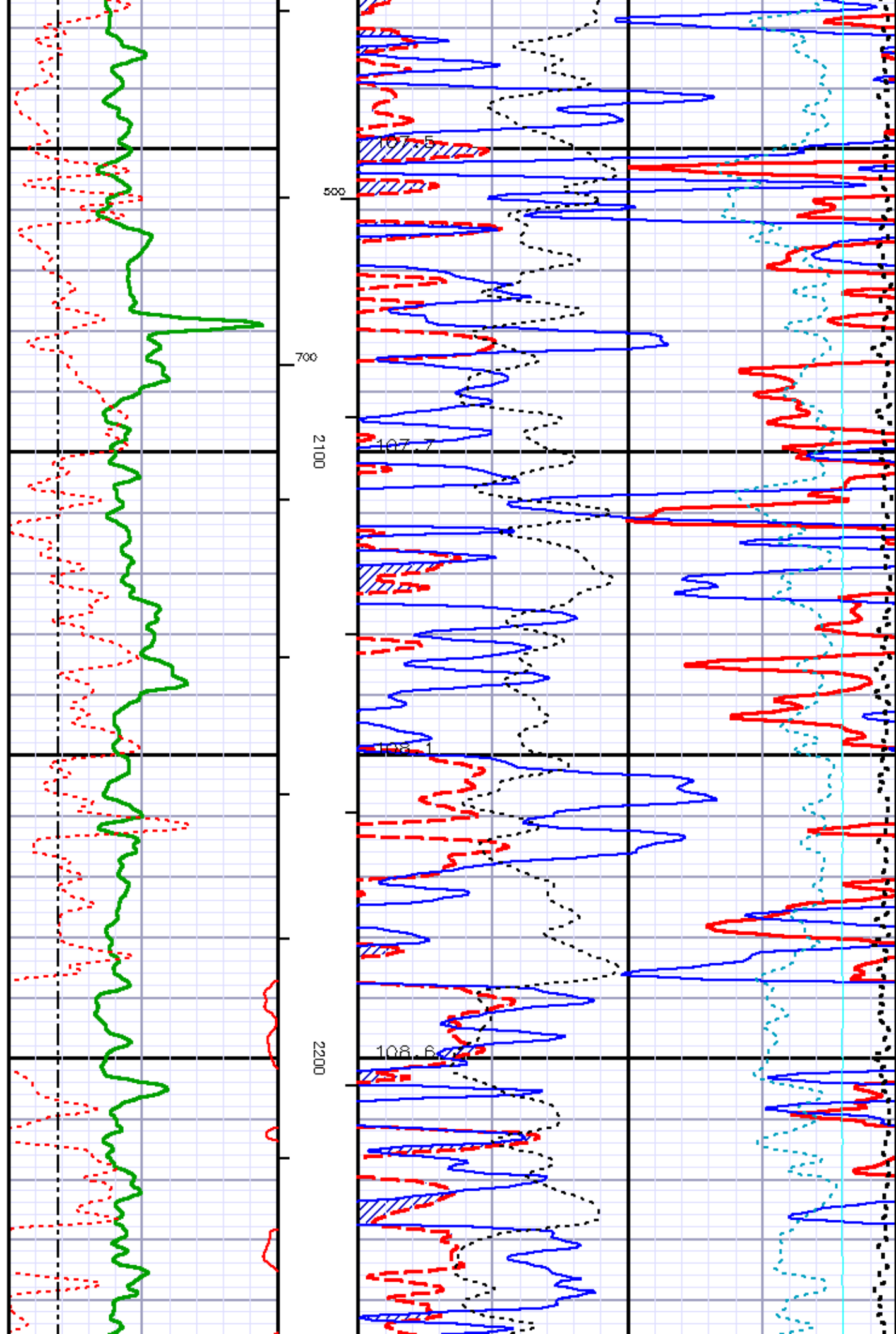


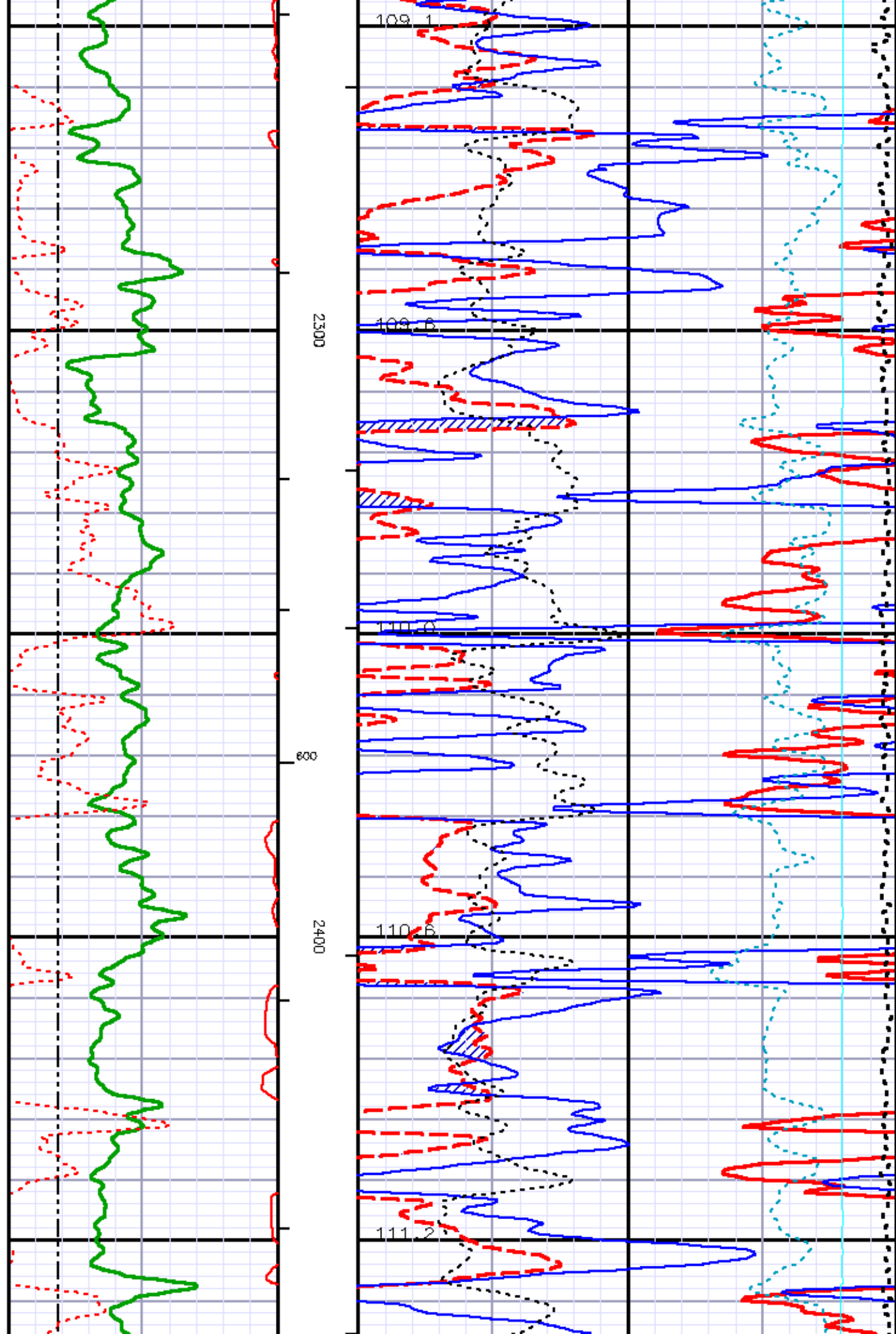


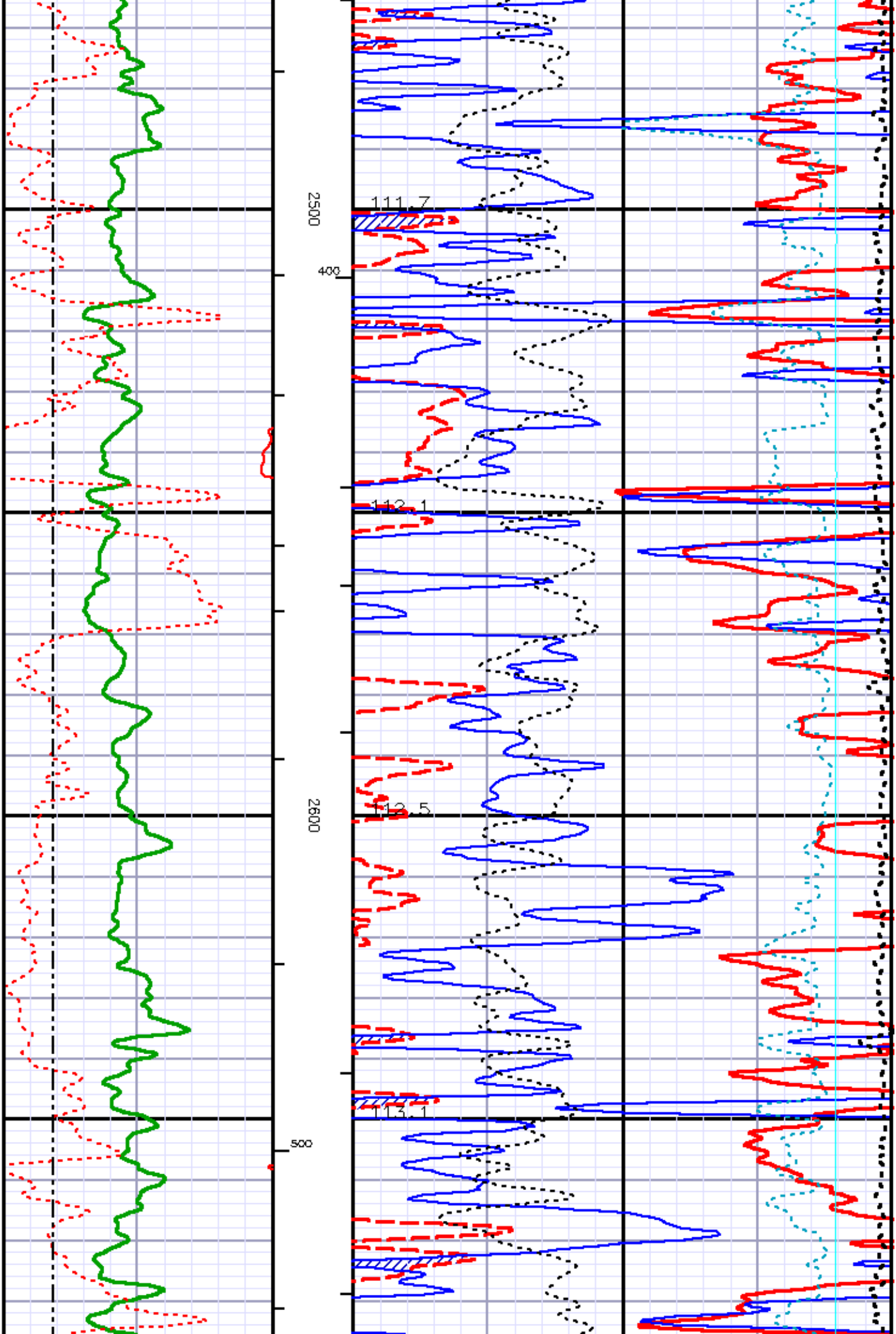


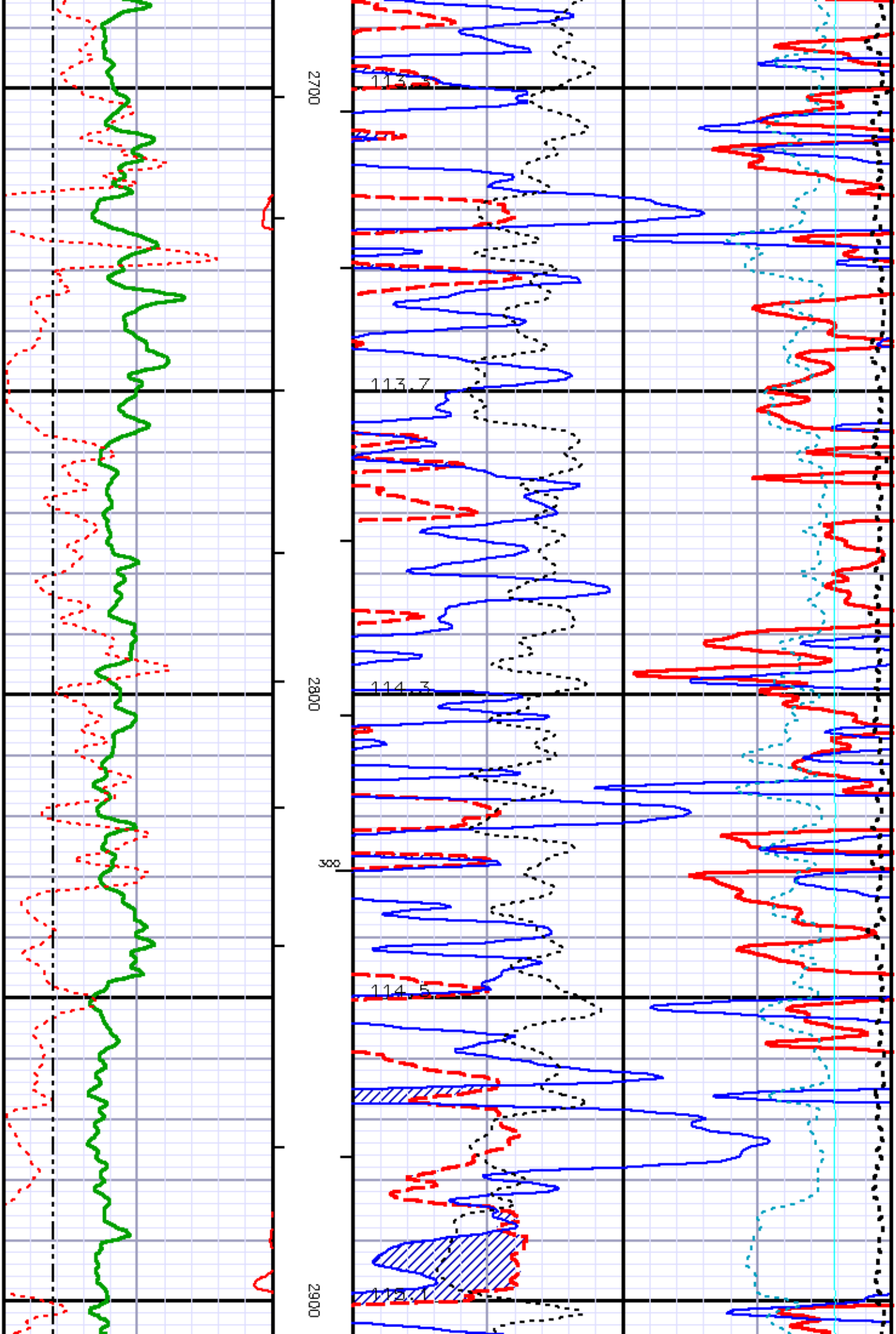


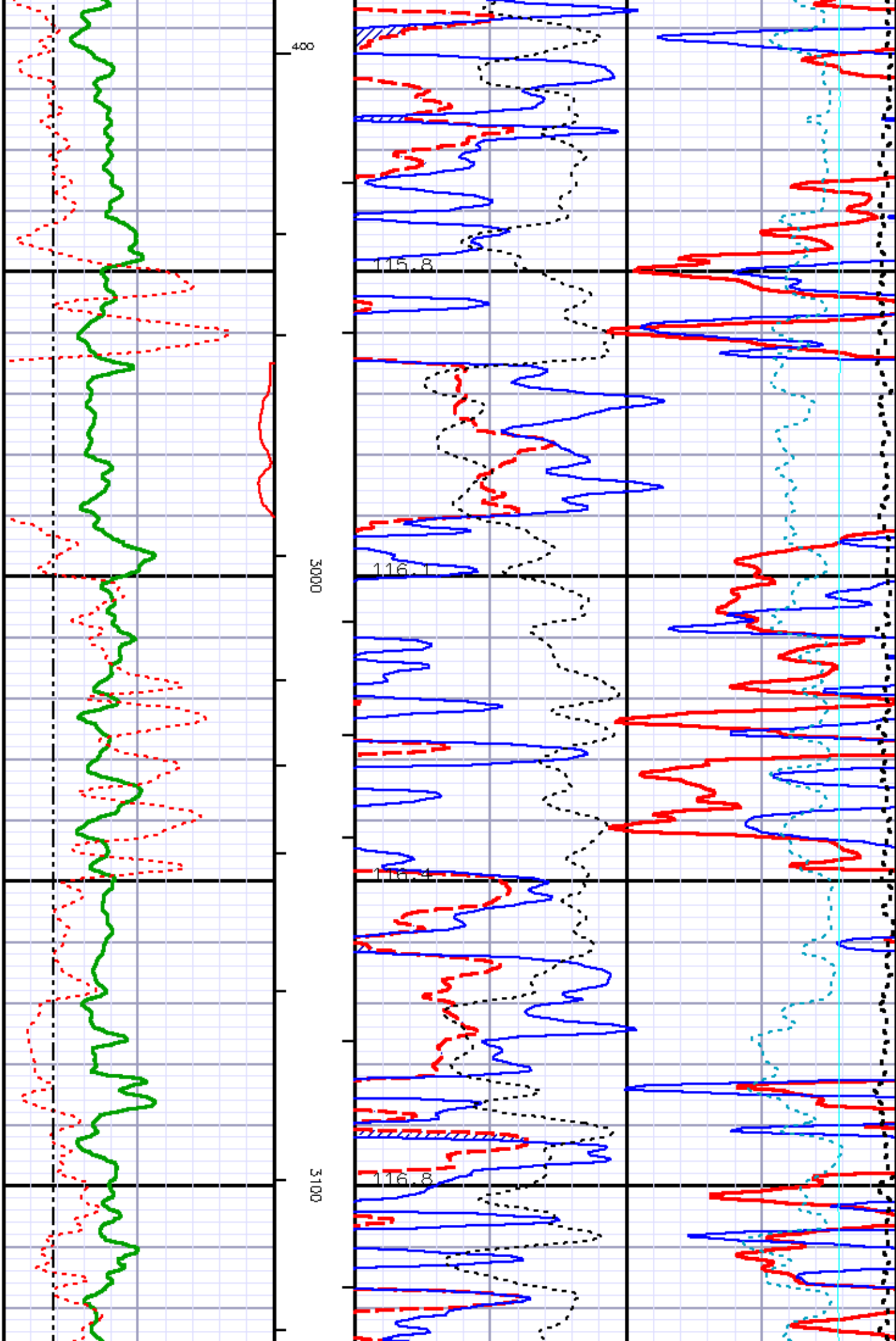


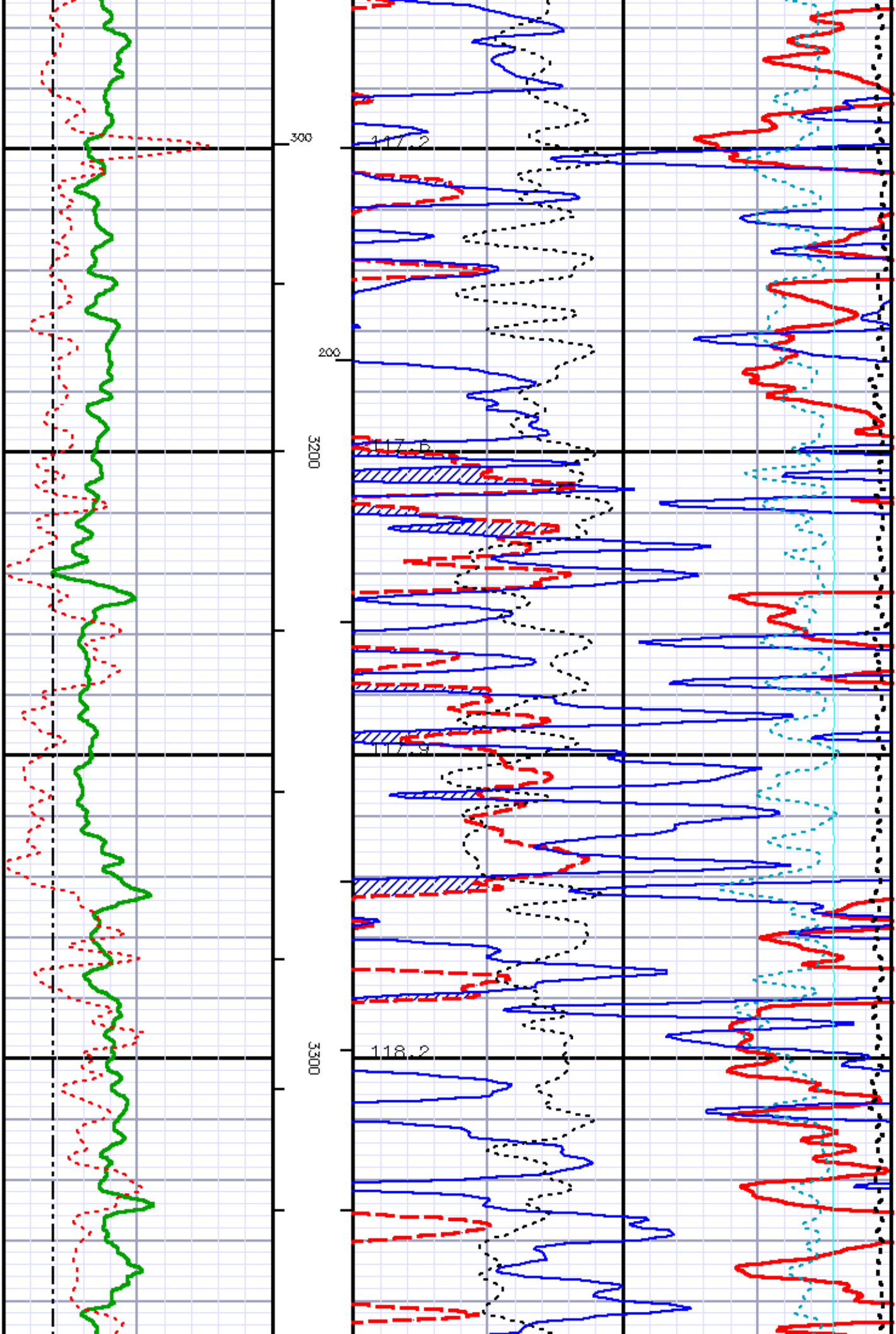


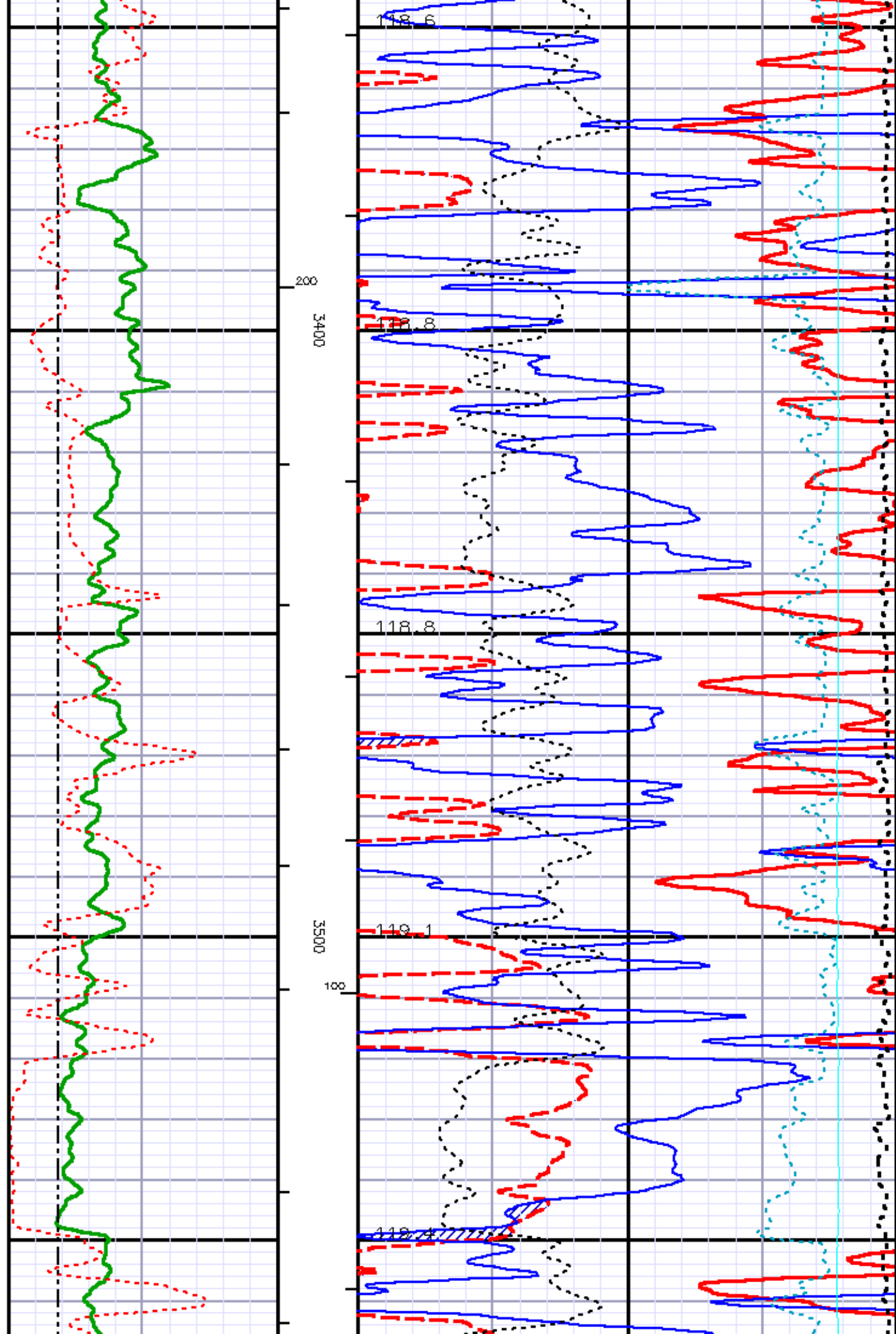


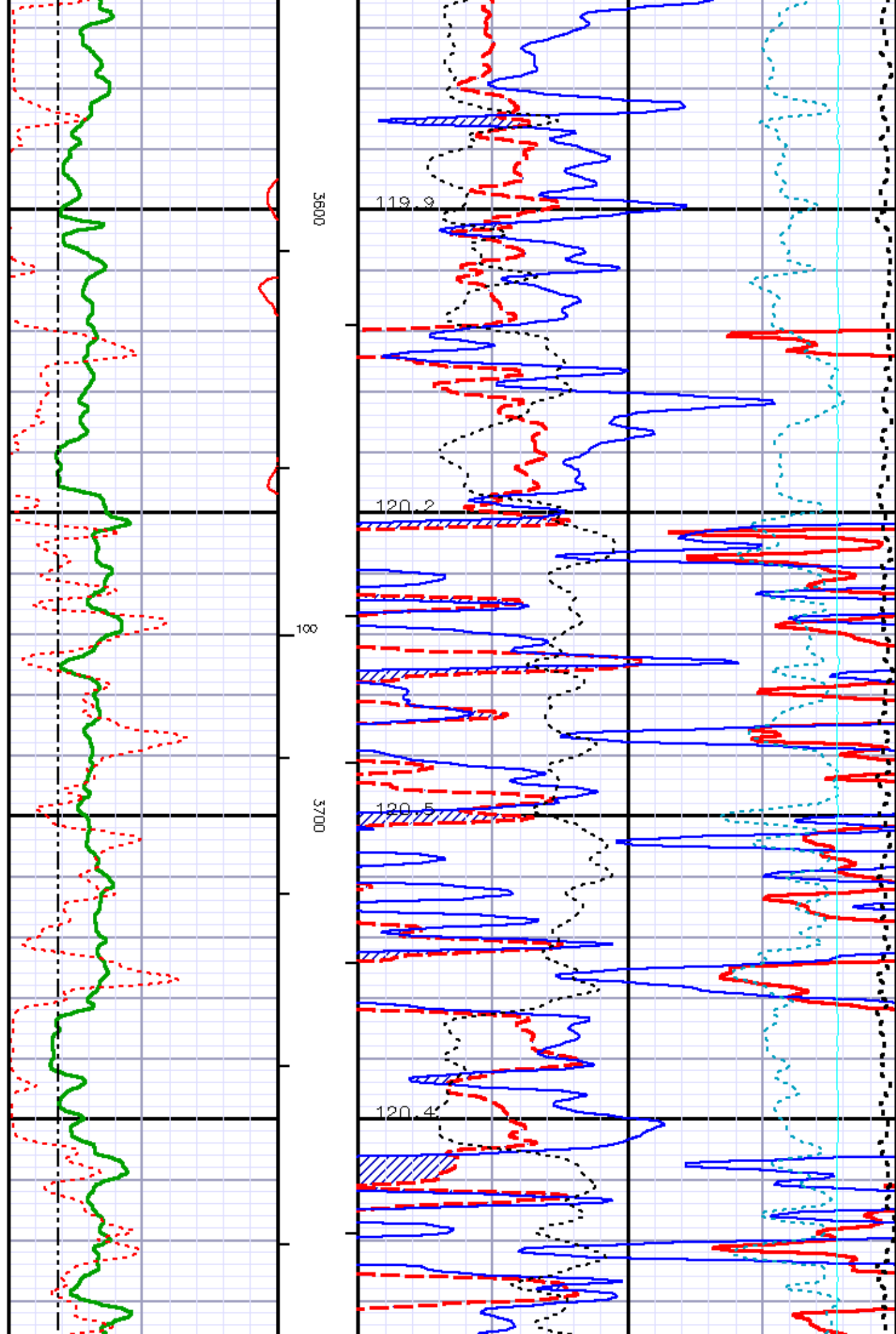


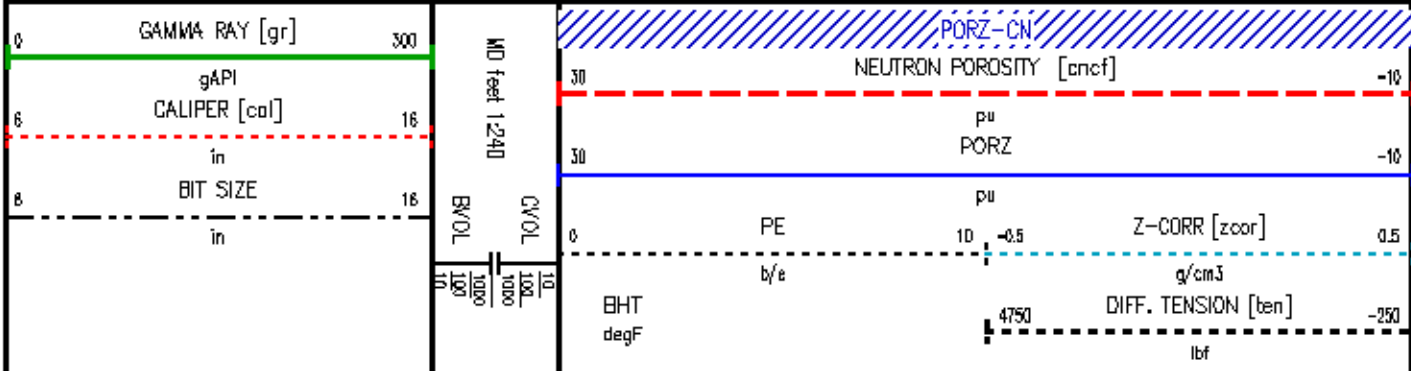
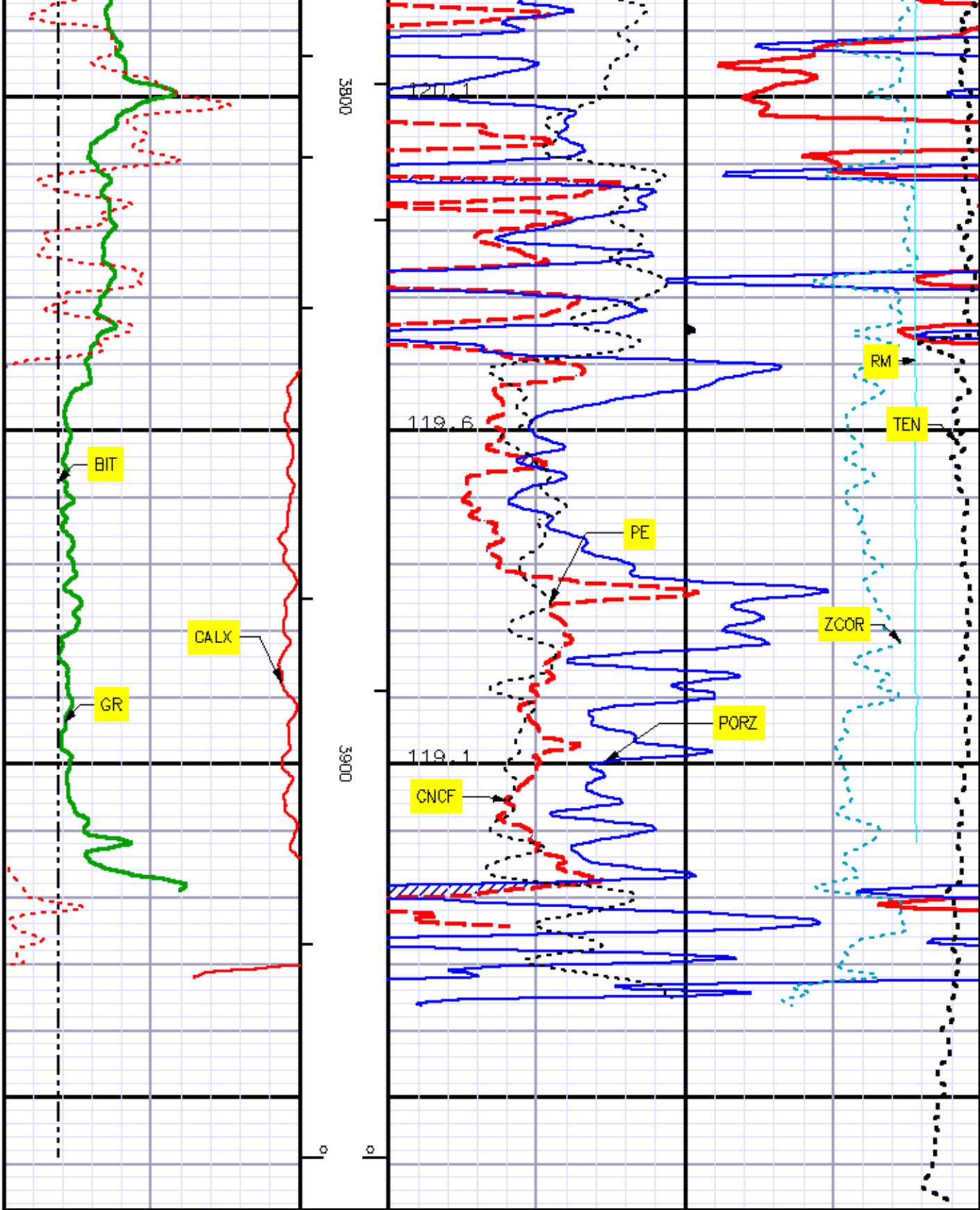












BULK DENSITY LOG 5" / 100 FT SCALE

Parameter & Filter History Report

FILE: C:\WellData\STEWART_#5\1\1\MAINR01.prm

TIME COMPLETED: August 22, 2007 20:50

LOGGING MODE: DEPTH UP

TOP DEPTH: 5.1 ft BOTTOM DEPTH: 3967.1 ft

Filters

Curve	Tool	Filter	Top	Bottom
CALM	ML	Light	5.1	3967.1
CALX	ZDEN	Medium	5.1	3967.1
CHT	TTWA	Medium	5.1	3967.1
GR	GR	Medium	5.1	3967.1
HRD1	ZDEN	Medium	5.1	3967.1
HRD1S	ZDEN	Medium	5.1	3967.1
HRD2	ZDEN	Medium	5.1	3967.1
HRD2S	ZDEN	Medium	5.1	3967.1
LSN	CN	Medium	5.1	3967.1
RLML	ML	Spt Gaussian	5.1	3967.1
RNML	ML	Spt Gaussian	5.1	3967.1
SFT2	ZDEN	Medium	5.1	3967.1
SFT2S	ZDEN	Medium	5.1	3967.1
SHR	ZDEN	Medium	5.1	3967.1
SOFT	ZDEN	Medium	5.1	3967.1
SOFTS	ZDEN	Medium	5.1	3967.1
SP	TEL	Medium	5.1	3967.1
SPD	DAPS	Medium	5.1	3967.1
SSD	ZDEN	Medium	5.1	3967.1
SSN	CN	Medium	5.1	3967.1
TEN	DAPS	Medium	5.1	3967.1
TTEN	DAPS	Medium	5.1	3967.1

Comp Neutron [CN]

Measurement Type	Parameter	Value	Units	Top	Bottom
2438 CN MATRIX	2438 MATRIX	Sandstone		5.1	3967.1
B.H. CORR DIAM. SOURCE	CALIPER/FIXED DIAM. (cnbh)	CAL		5.1	3967.1
BOREHOLE CORR DIAM.	FIXED DIAMETER (cnbh)	7.875	in	5.1	3967.1
CASG. B.H. CEMENT VOL.	CASING O.D.	7.880	in	5.1	3967.1

CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)	CURVES	OFFSET (ft)
CALX	-33.6	PE	-31.0	PORZ	-31.0	ZDEN	-31.0

Created by : FOCUS

Plotted by : PlotMgr. v6.4.254

Company : NEXPRO COMPANY

Well : STEWART #5

File Name : c:\welledata\stewart_#5\1\mainr01.xtf

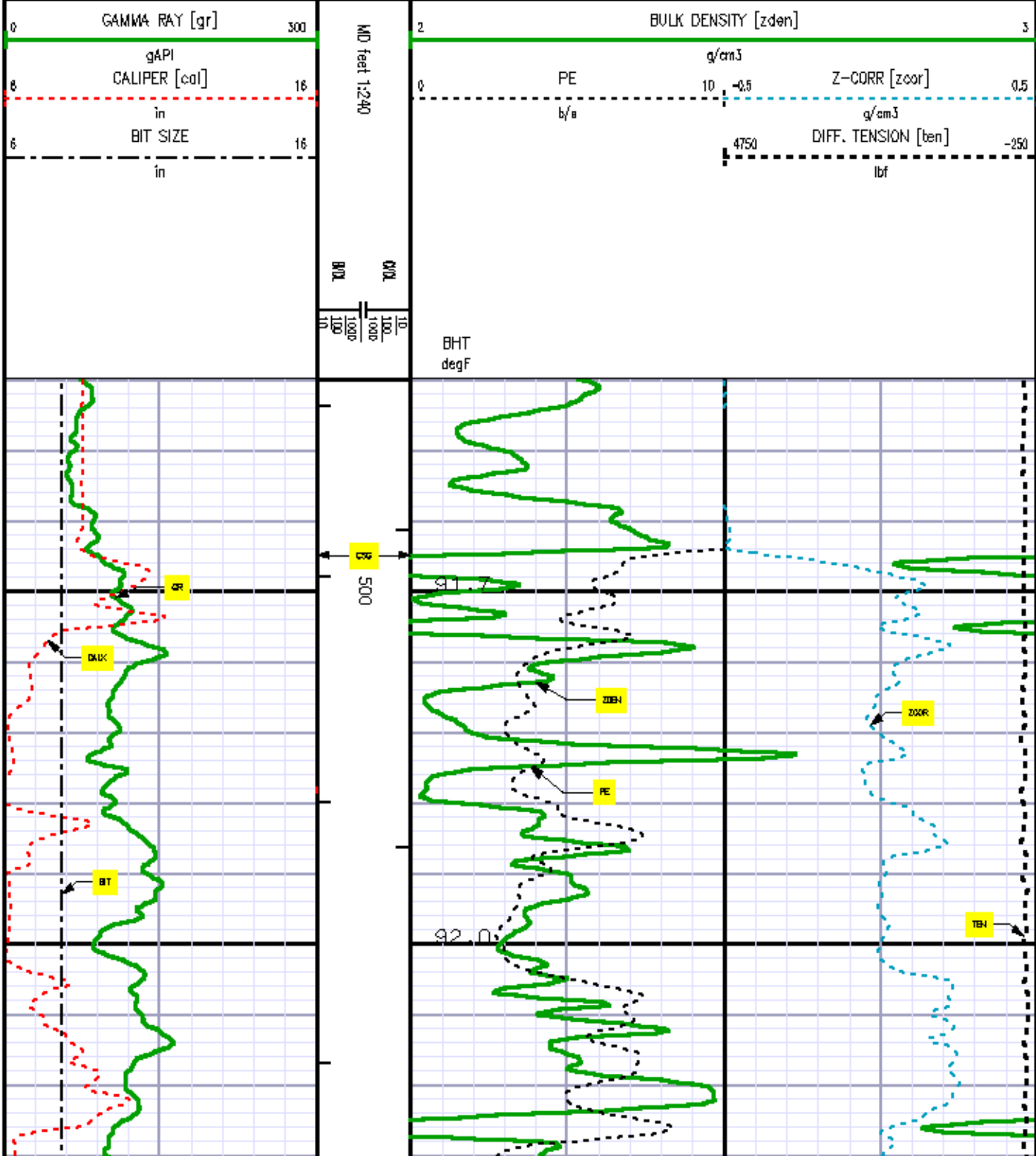
Mode : PlotMgr 5.4.254

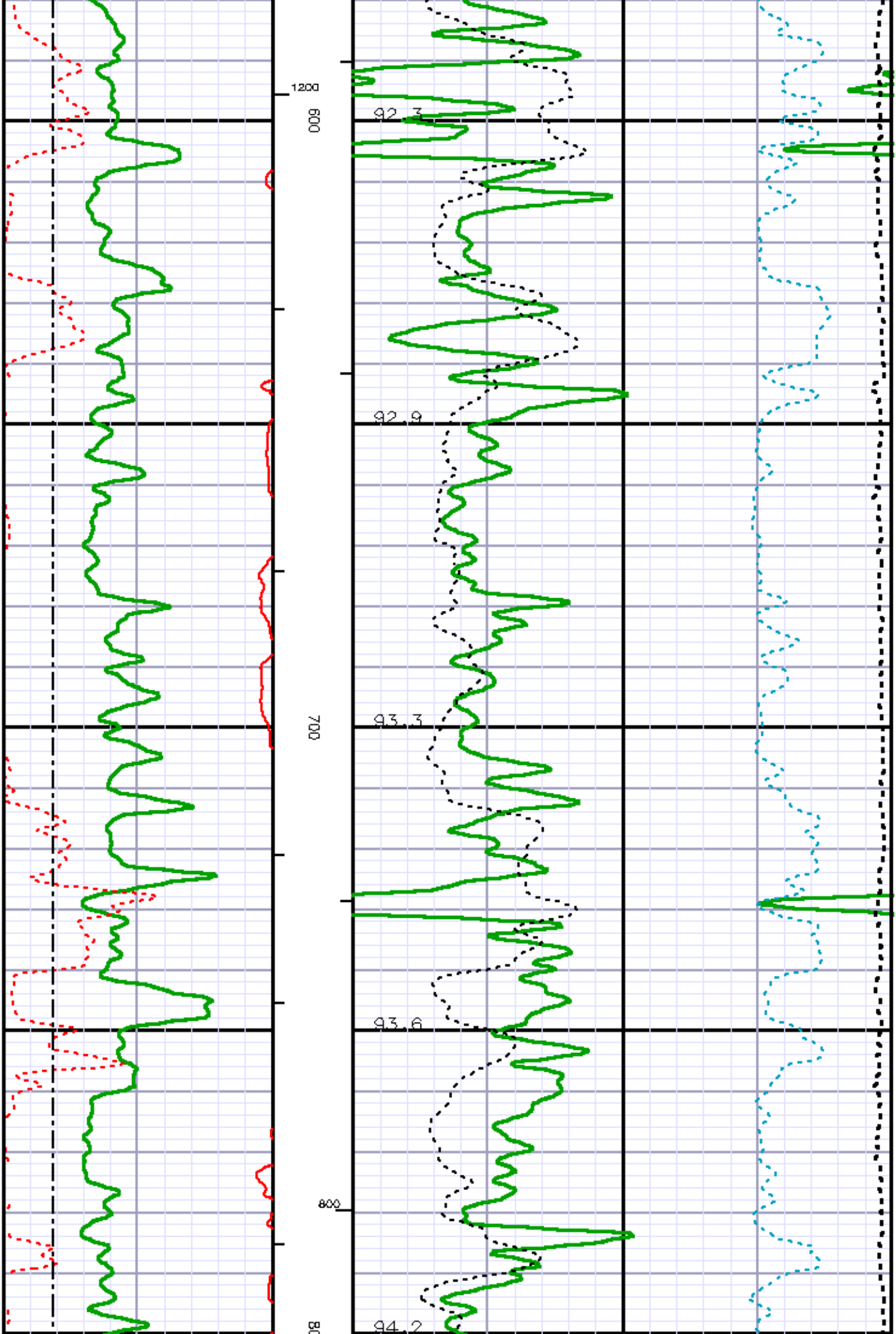
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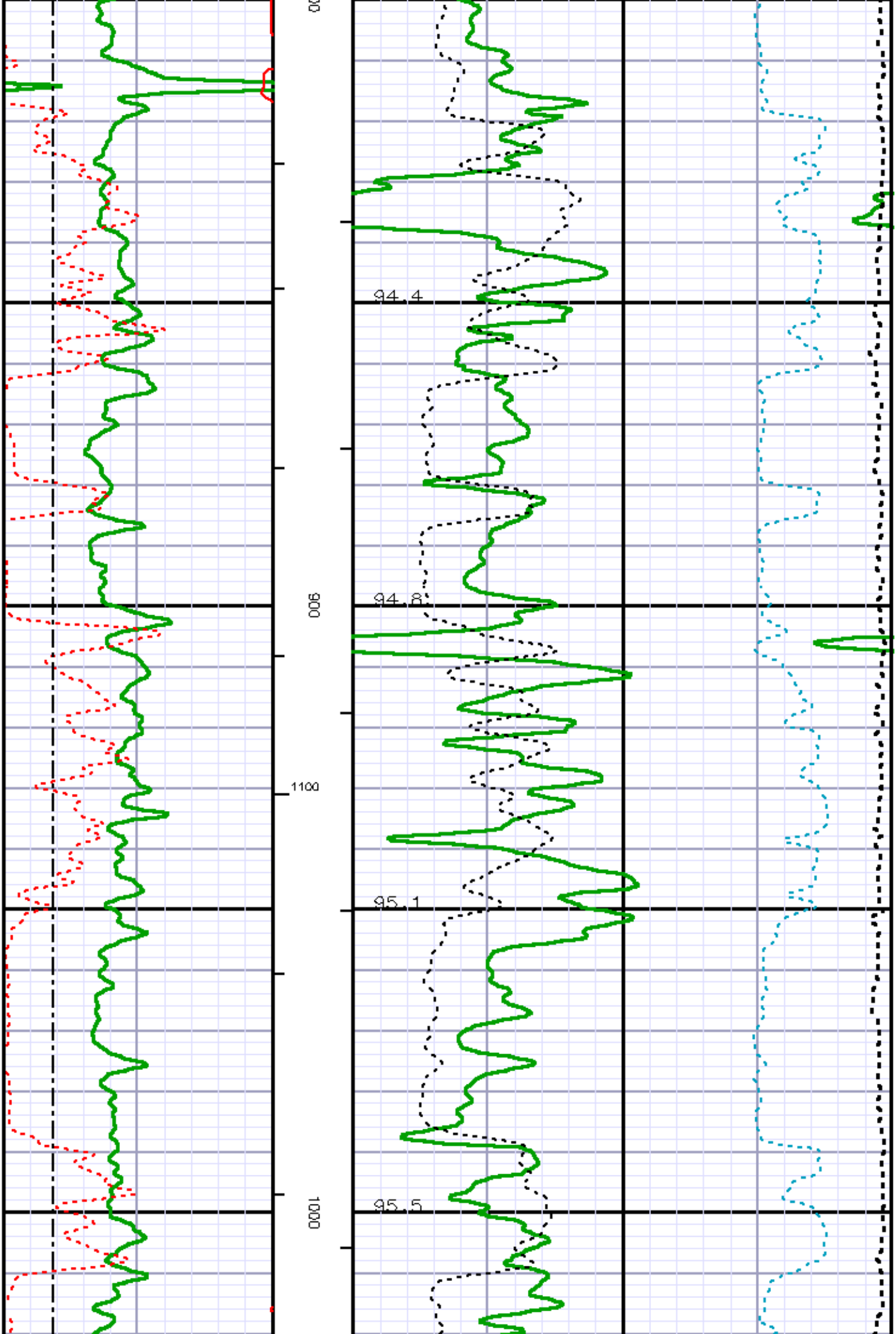
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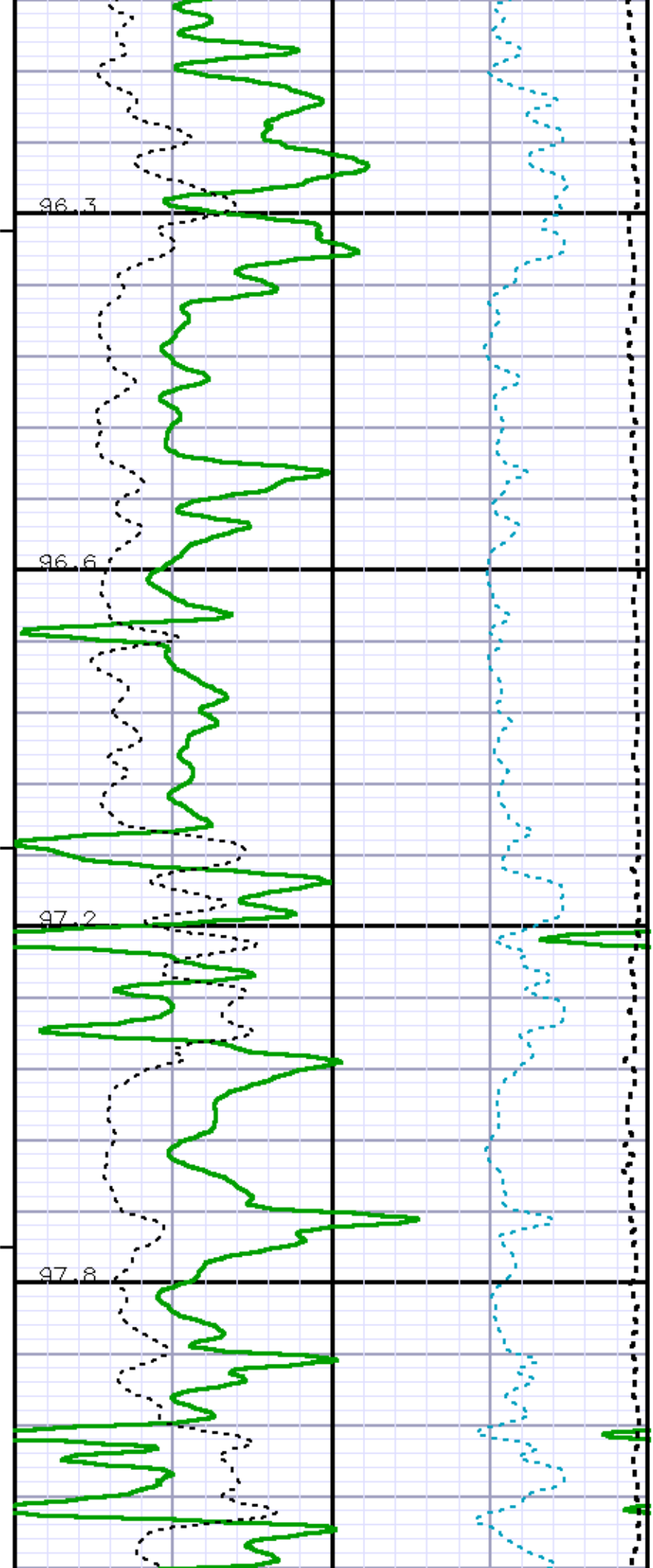


Baker Atlas



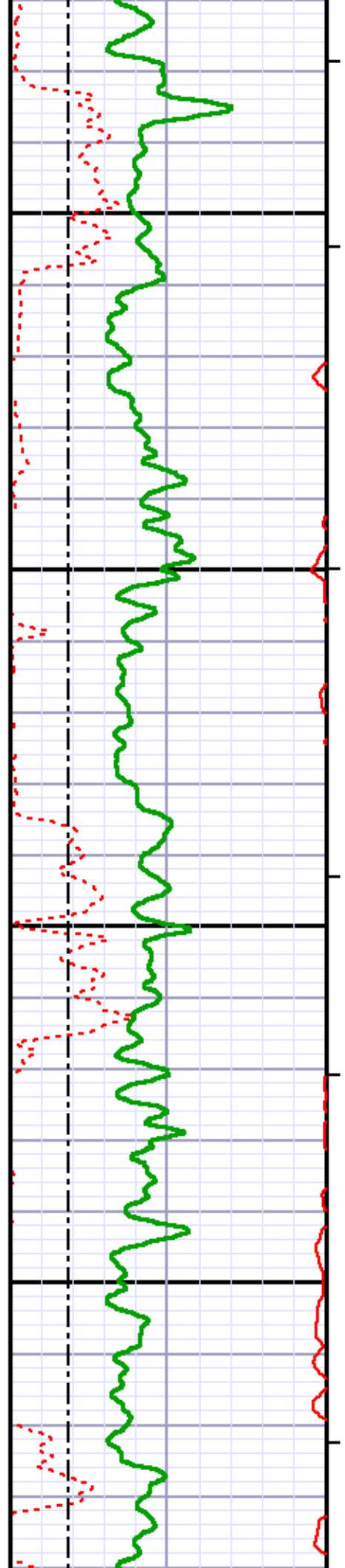


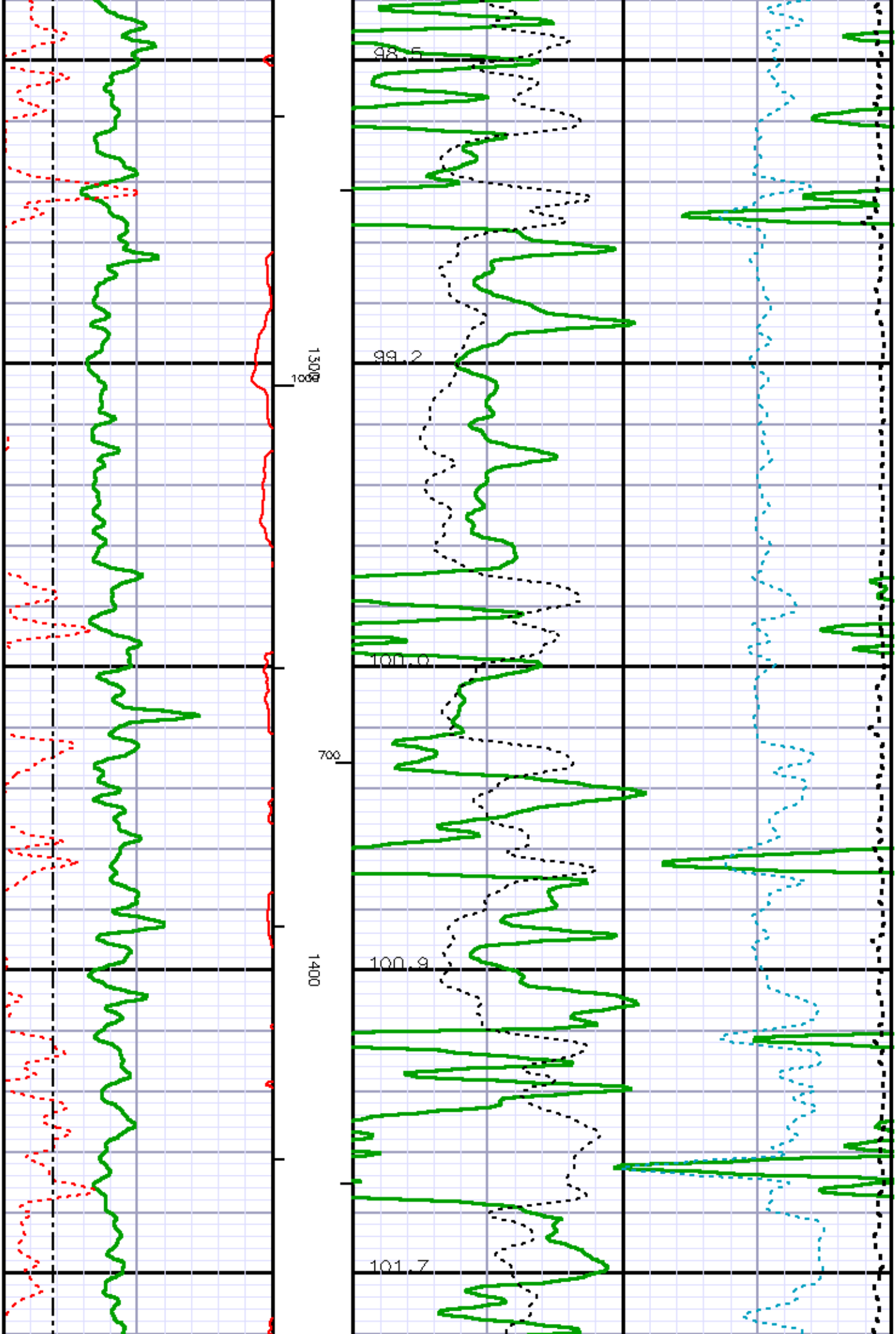


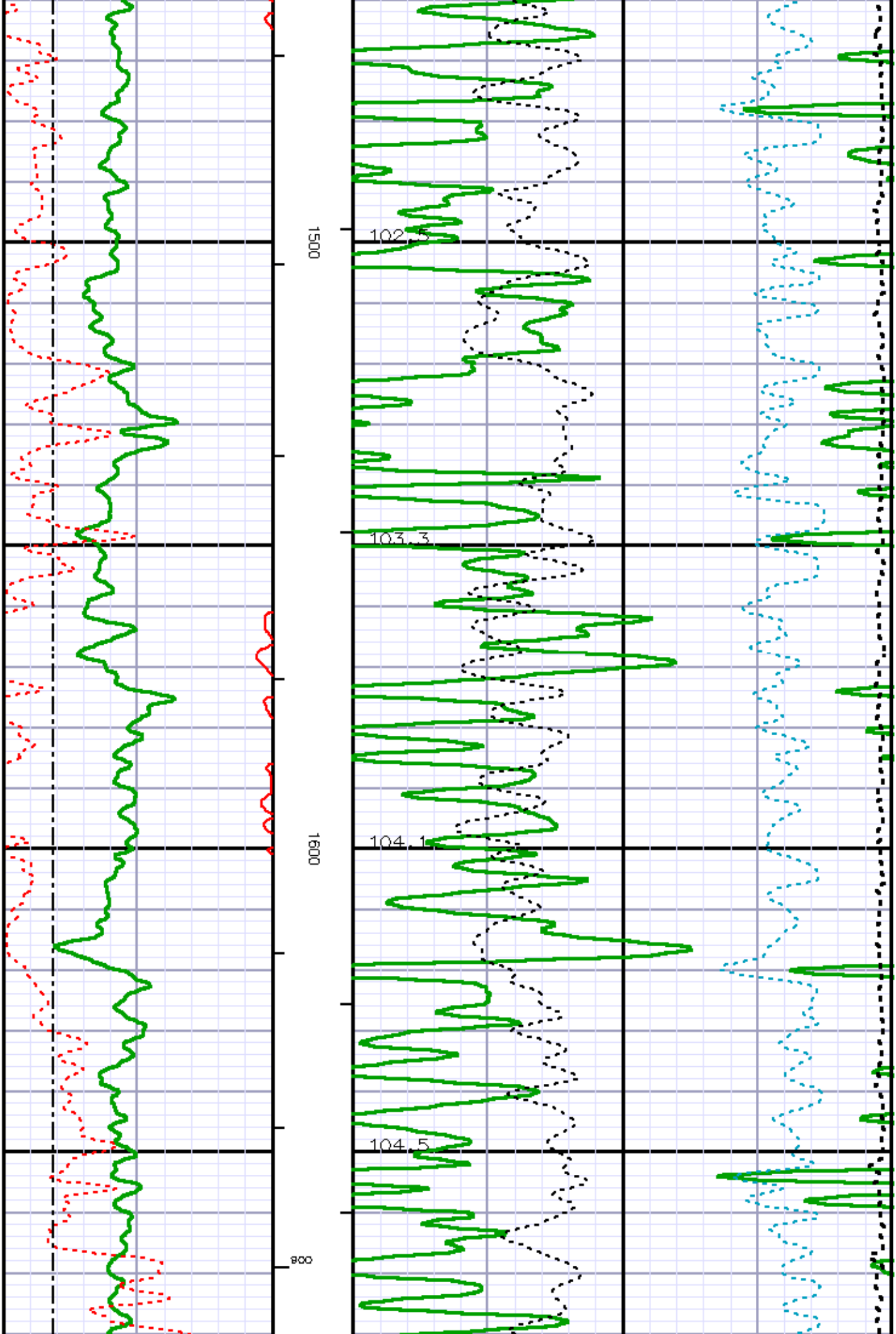


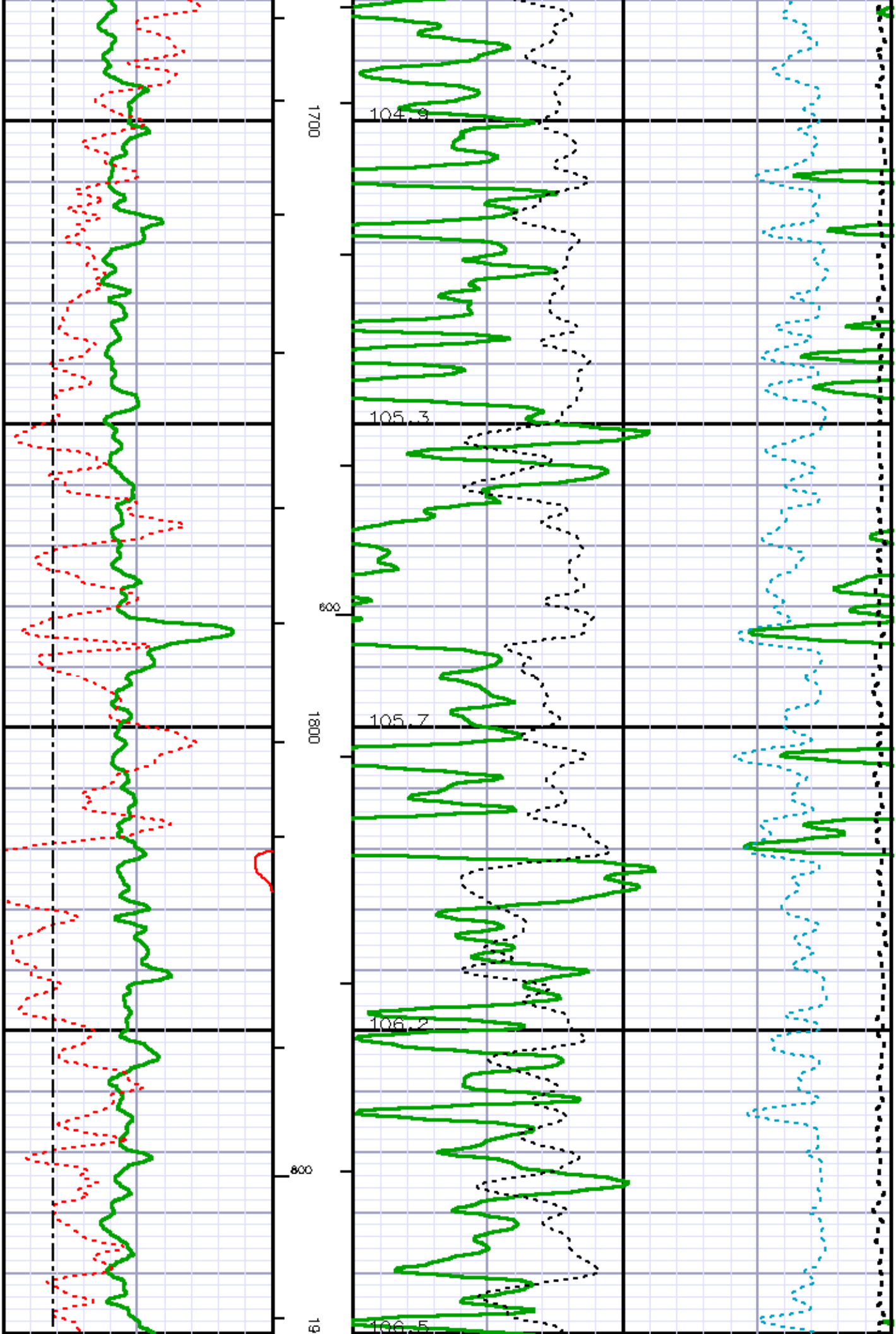
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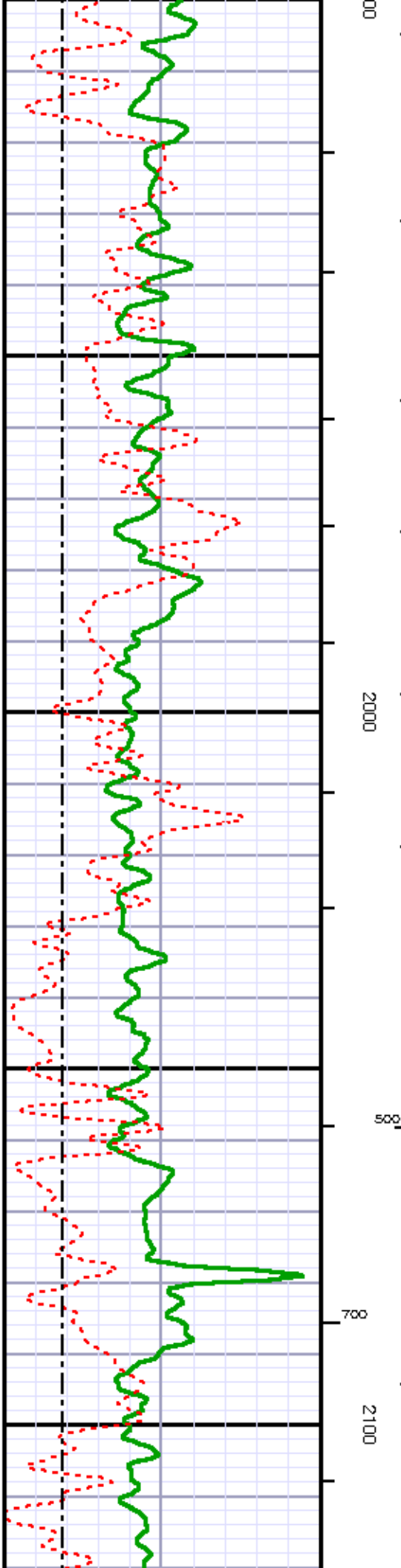
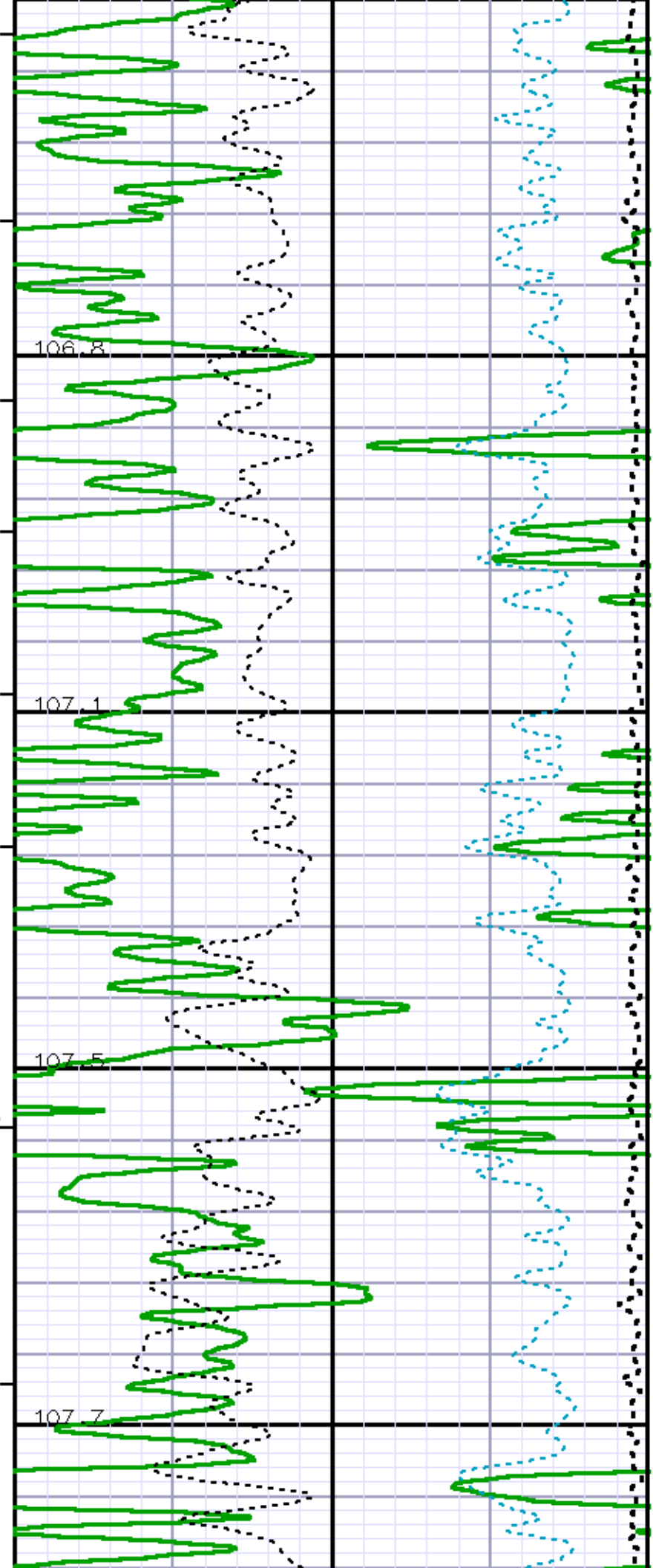
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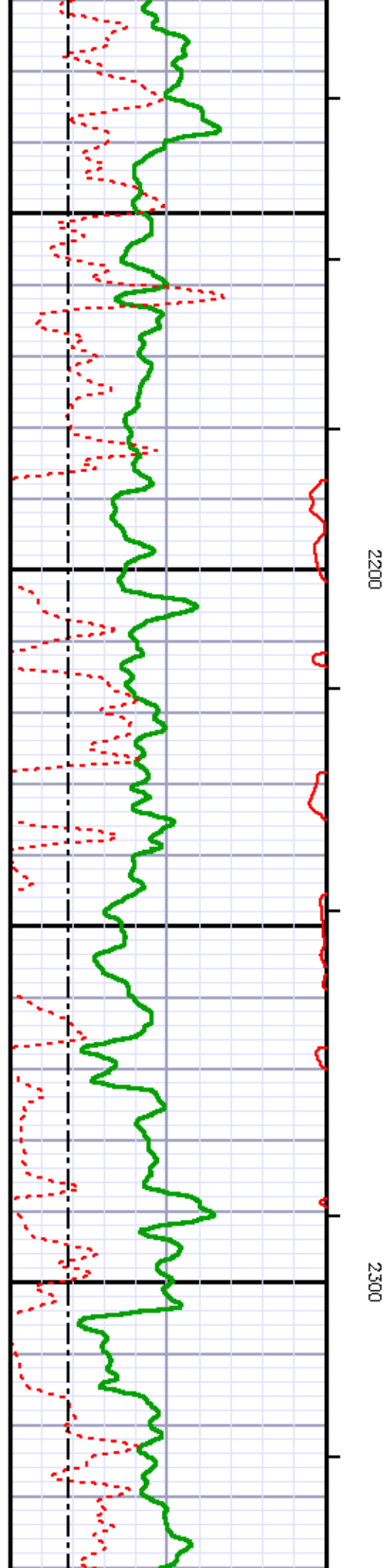
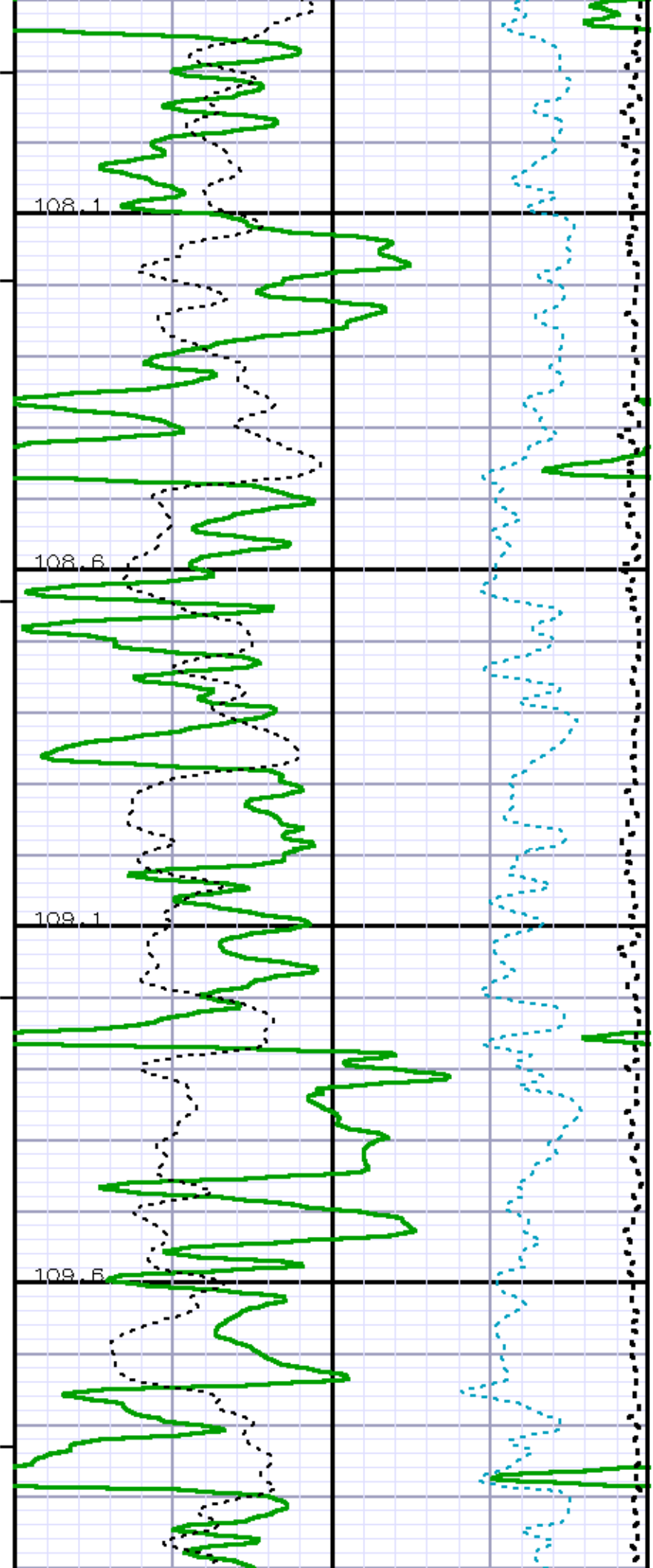


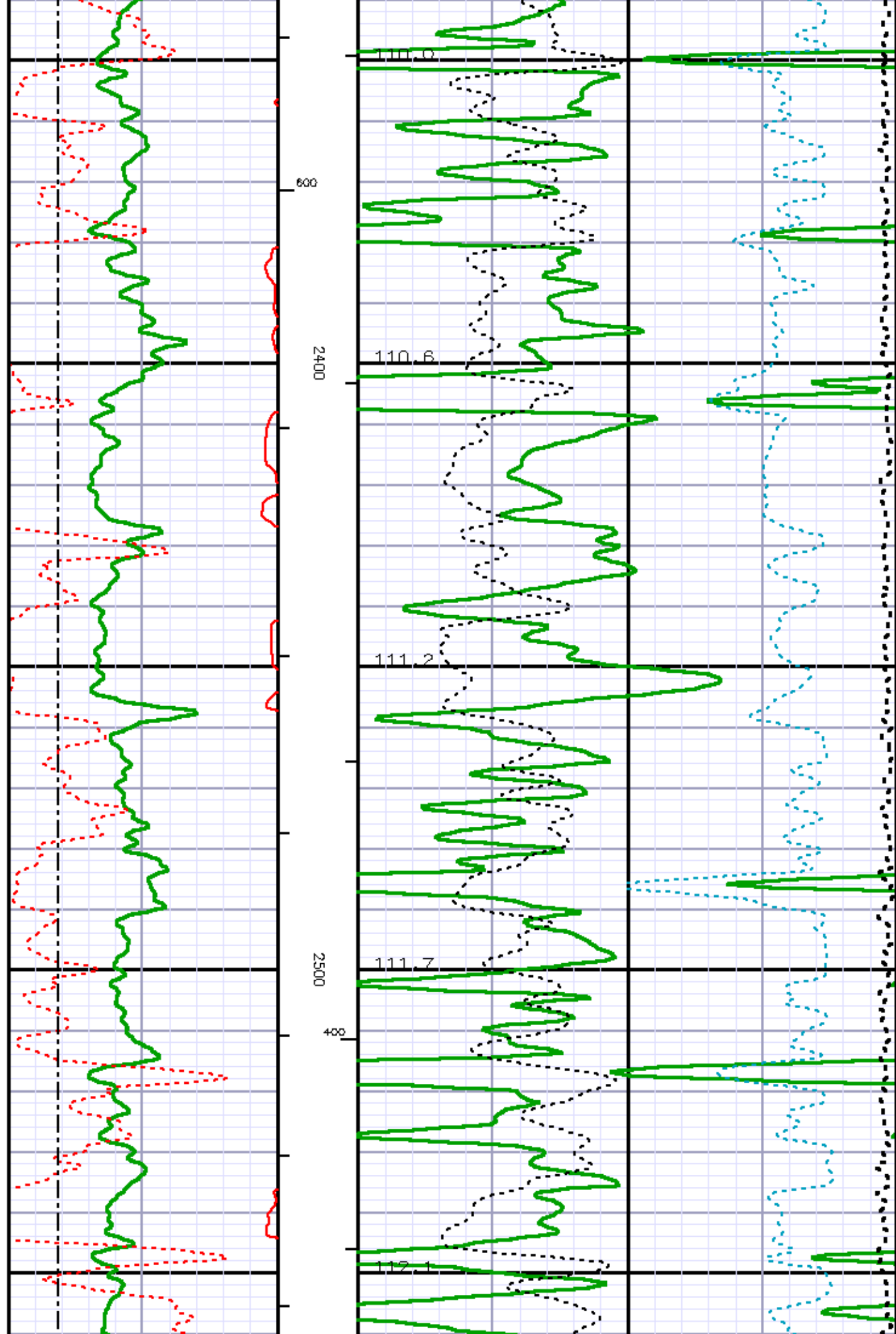


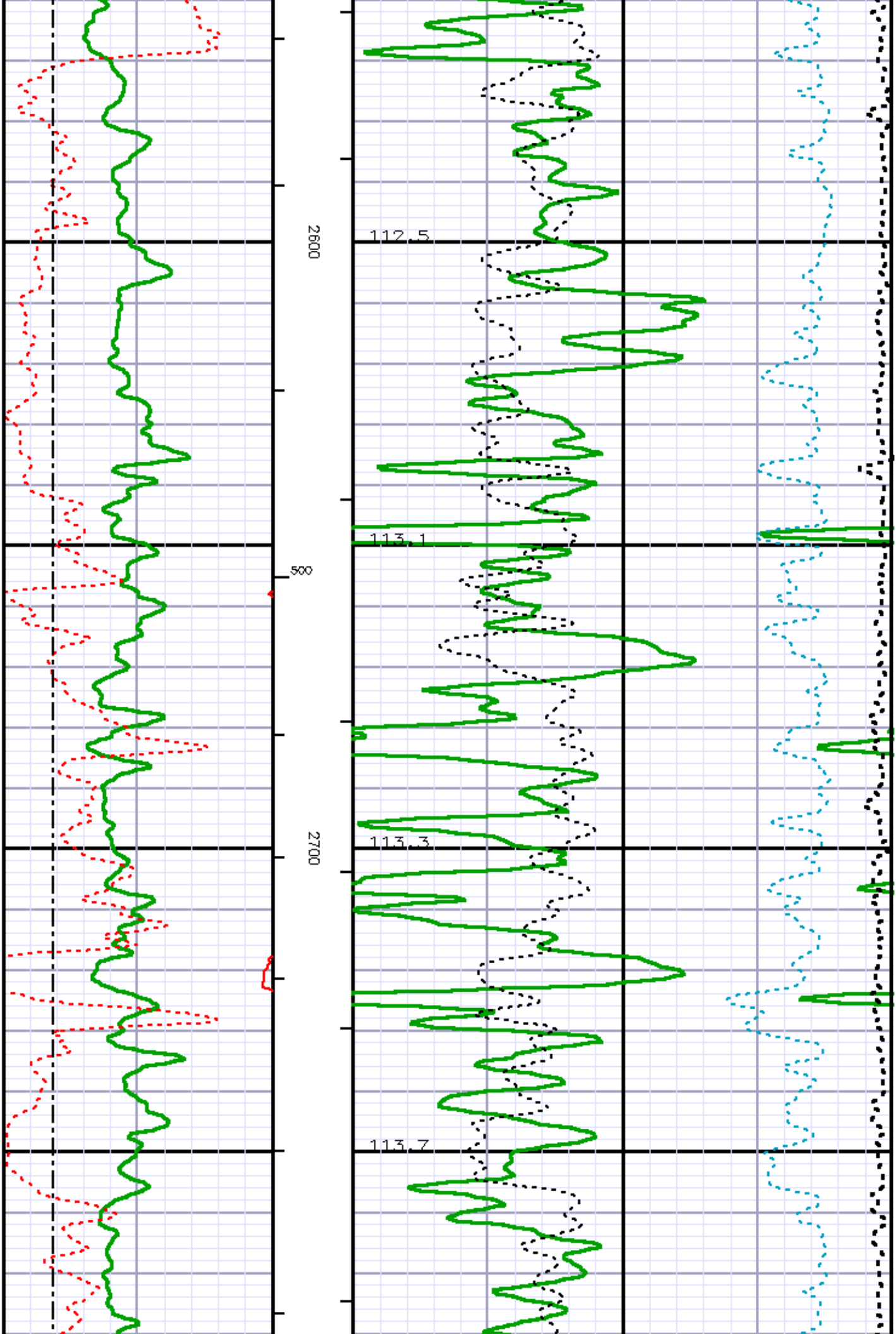


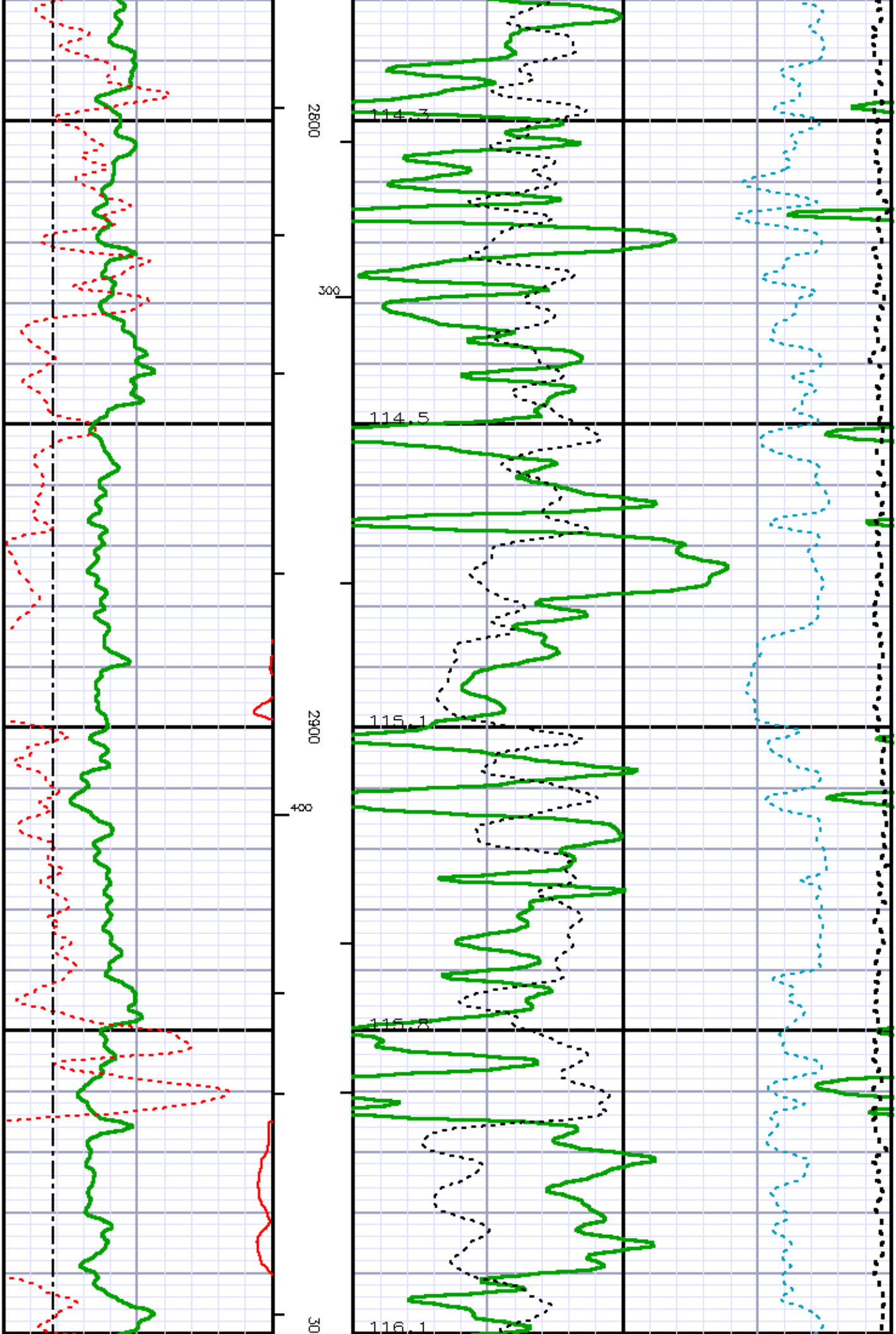


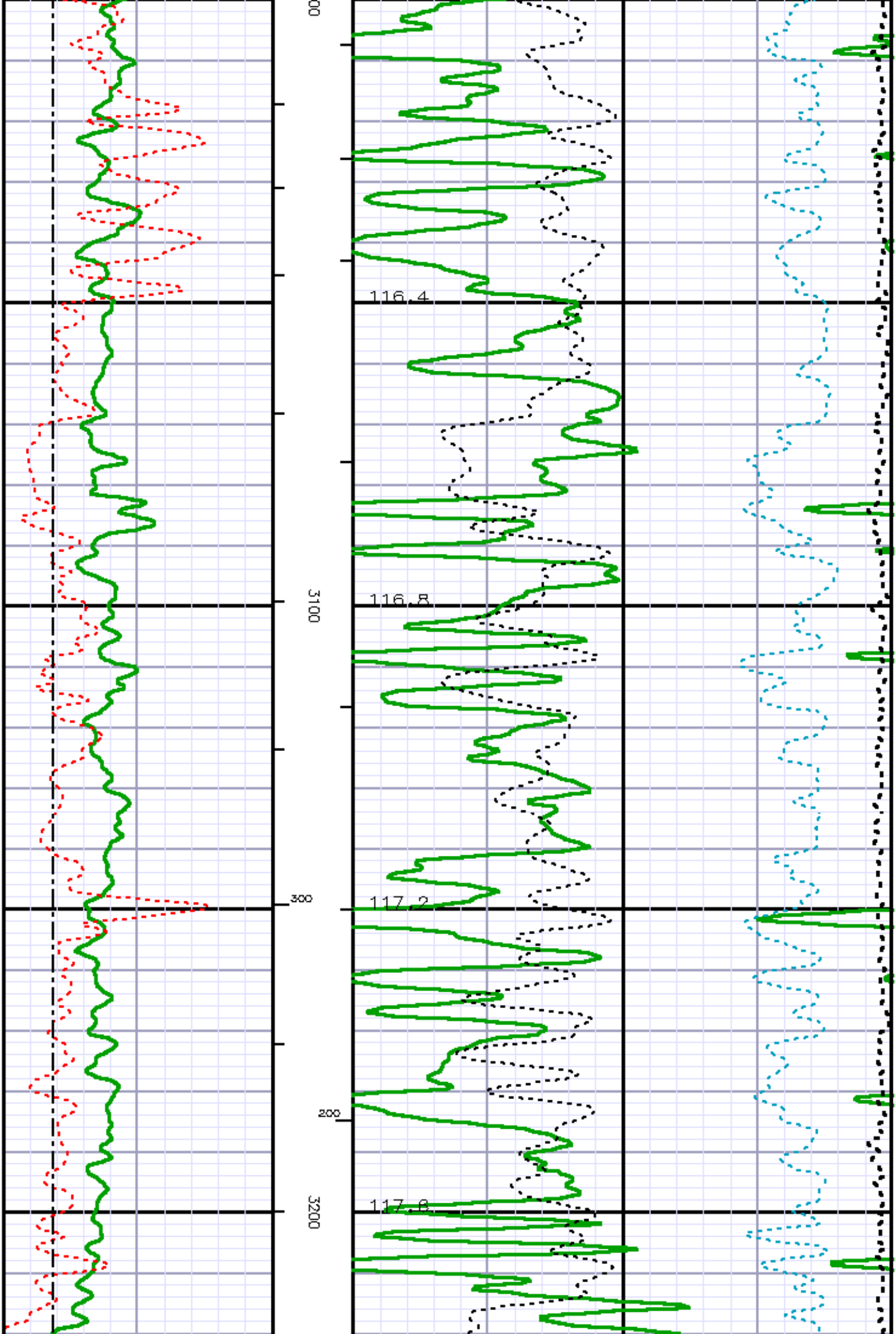


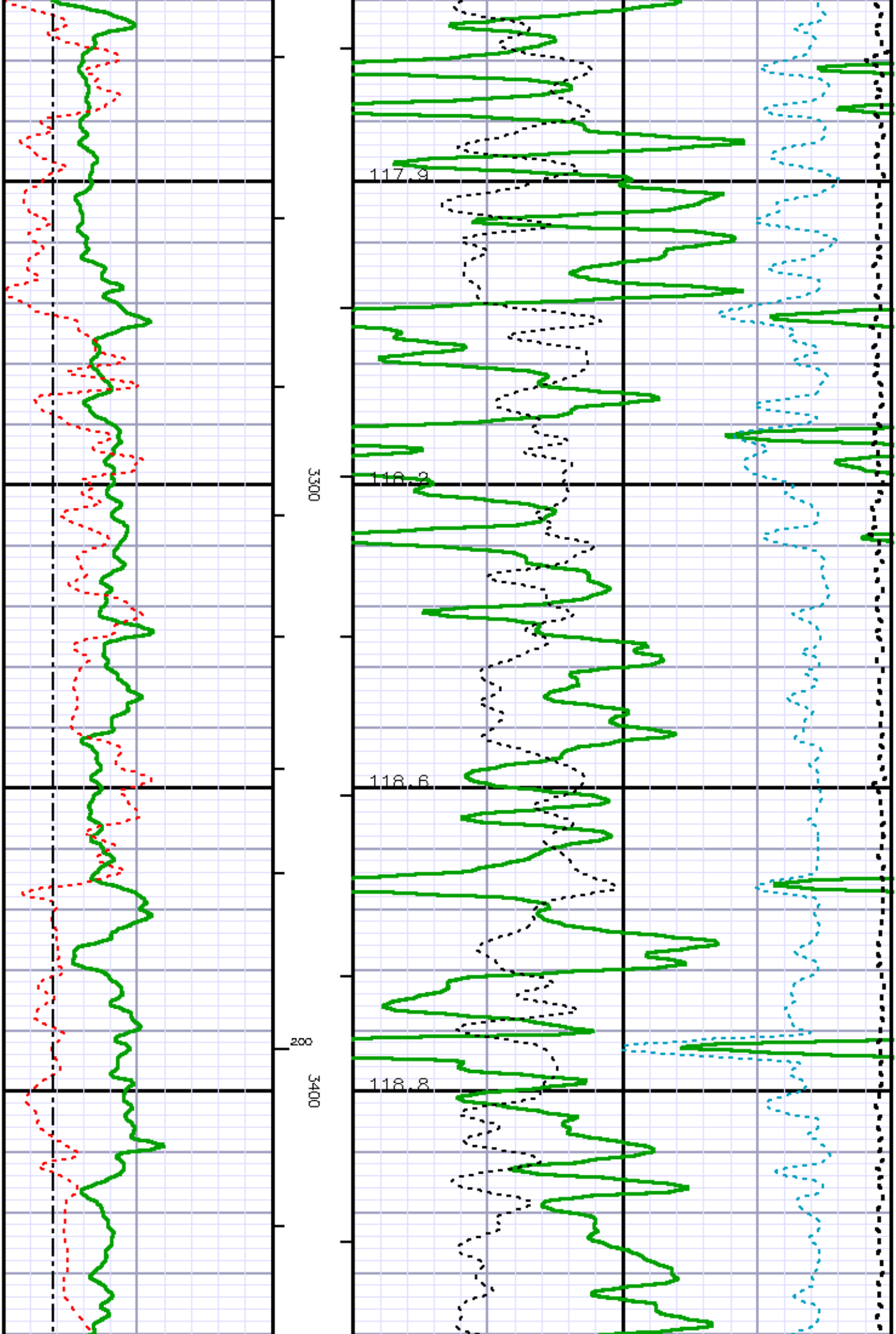


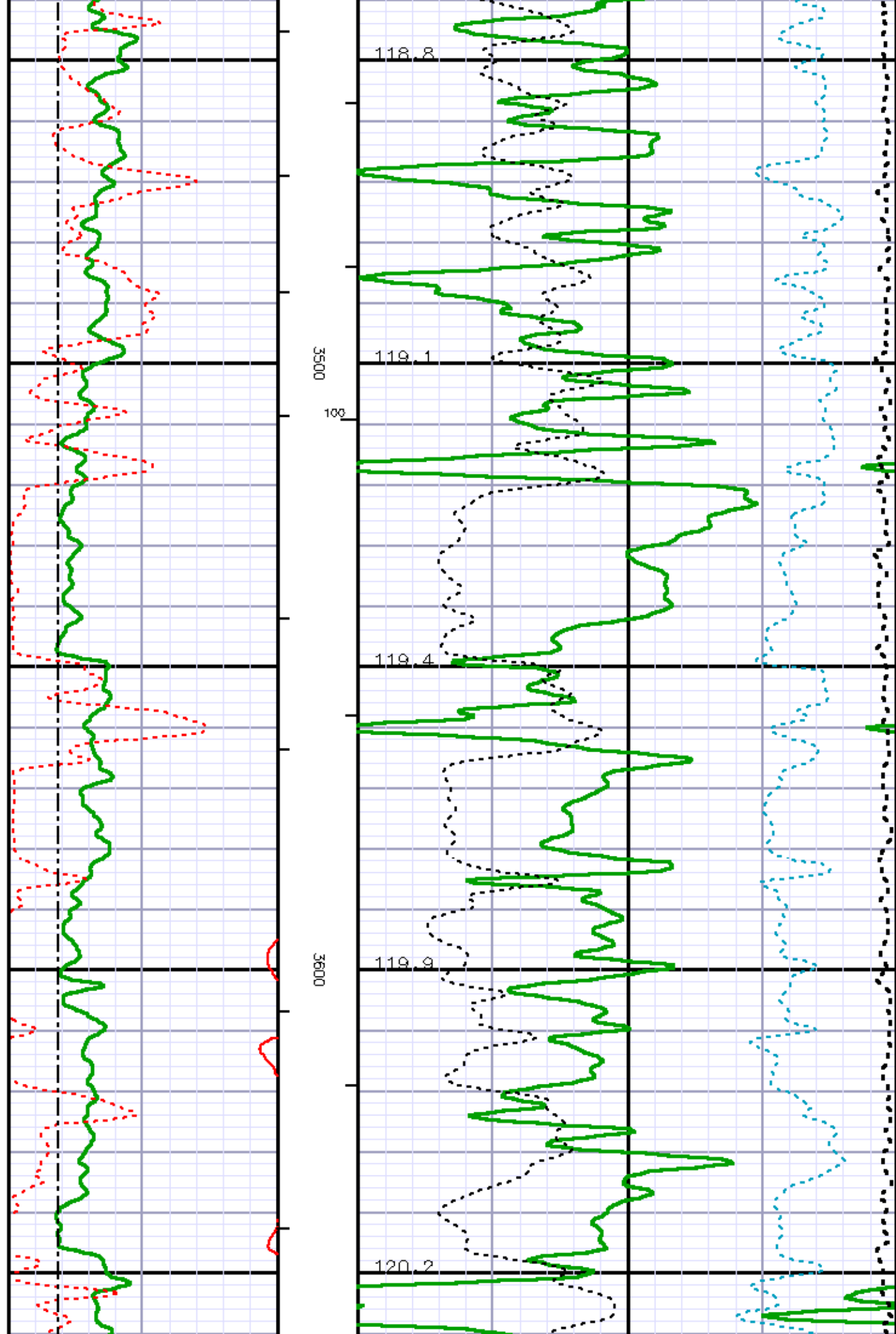


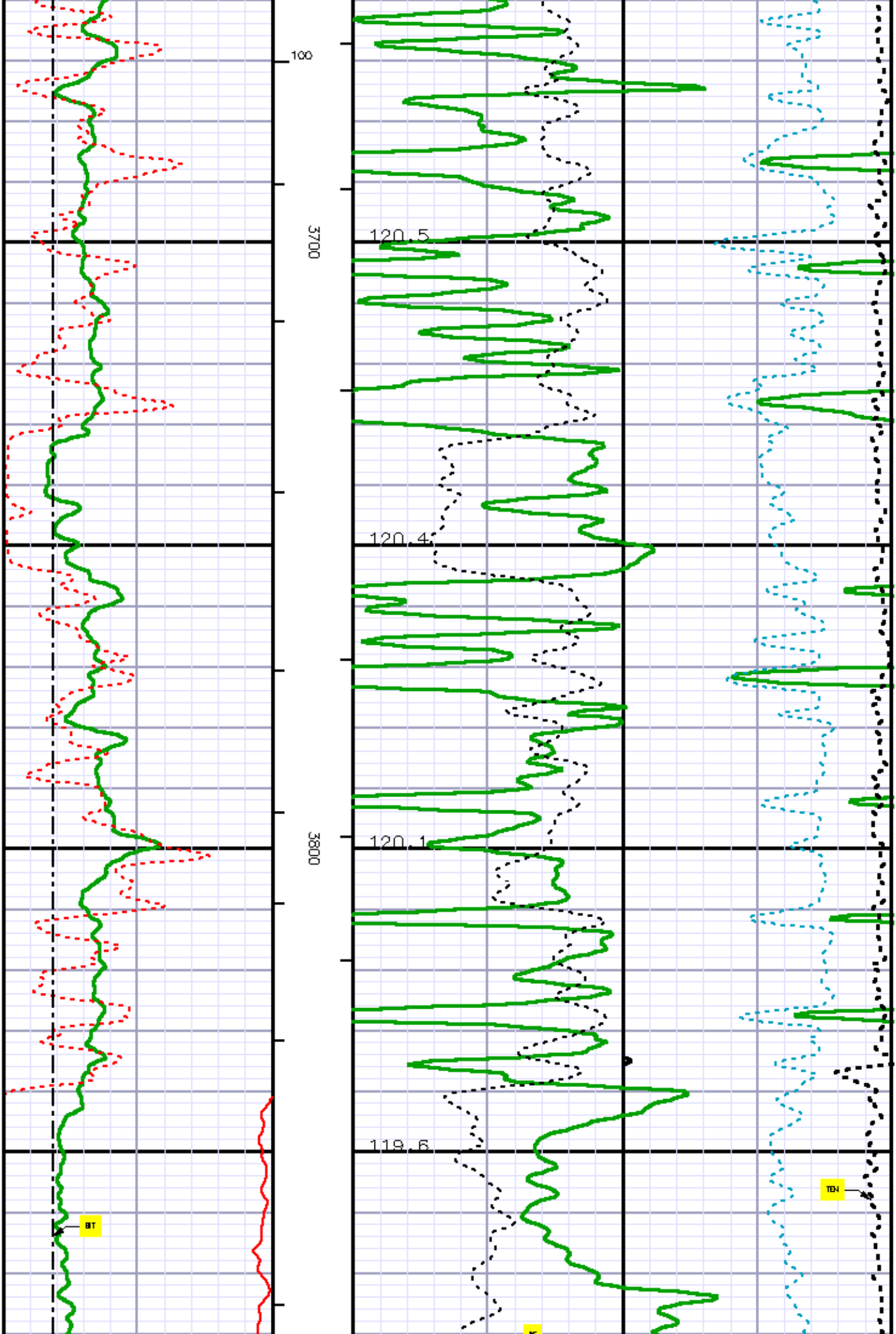


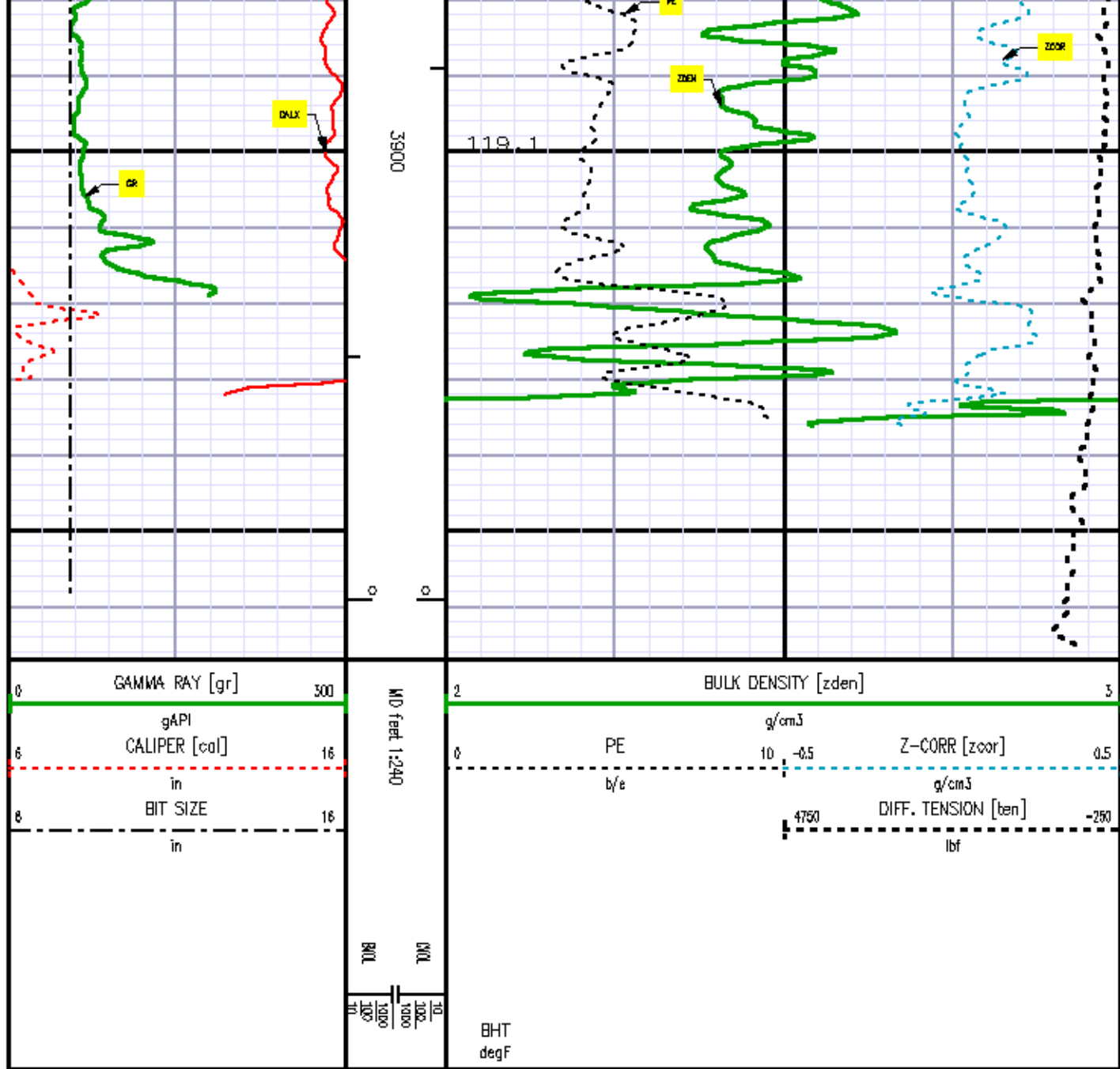












CALIBRATION / VERIFICATION SUMMARY

GR PRIMARY CALIBRATION SUMMARY

Series	3518XG	Asset	10110604	Time	August 12, 2007 11:24	Days since	9
Jig Series	4702NK	Jig Asset	BA-857	Calibrator (api)	185.000		
Background (cps)	149.46	Calibrator ON (cps)	873.23	Multiplier	0.25561	Background (api)	38.203
						Calibrator ON (api)	223.203

GR INTERNAL BEFORE LOG VERIFICATION SUMMARY

Series Asset Time

Counts	TEMP (degF)	HV (V)
<input type="text" value="979.2"/> <small>929 1027</small>	<input type="text" value="105.21"/> <small>280.00</small>	<input type="text" value="1364.0"/> <small>1237 1612</small>

GR INTERNAL AFTER LOG VERIFICATION SUMMARY

Series Asset Time

Counts	TEMP (degF)	HV (V)
<input type="text" value="979.1"/> <small>929 1027</small>	<input type="text" value="86.76"/> <small>280.00</small>	<input type="text" value="1362.6"/> <small>1237 1612</small>

TTMA CALIBRATION SUMMARY

Series Asset Time Days since

Tool

Series & Asset:	<input type="text" value="3980XA101389D9"/>
Calibration Date:	<input type="text" value="January 31, 2005 09:53"/>
RM K Gain:	<input type="text" value="1.45695299e-001"/>
RM K Offset:	<input type="text" value="-1.67934000e-002"/>

Accelerometer

Serial:	<input type="text" value="3980XA101389D9"/>
Calibration Date:	<input type="text" value="February 02, 2005 10:12"/>

CN FLUID PRIMARY CALIBRATION SUMMARY

Series Asset Time Days since

Calb Series	Calb Asset	Source Series	Source Asset	Target Ratio
<input type="text" value="2437XB"/>	<input type="text" value="112674"/>	<input type="text" value="4718XA"/>	<input type="text" value="N-0767"/>	<input type="text" value="5.737"/>
SSN	LSN	SSN/LSN	MCF	CN (PU)
<input type="text" value="6287.16"/>	<input type="text" value="1087.42"/>	<input type="text" value="5.78173"/>	<input type="text" value="0.99226"/> <small>0.96 1.06</small>	<input type="text" value="25.241"/>

ZDEN CALIPER PRIMARY CALIBRATION SUMMARY

Series Asset Time Days since

	Size (in)	Value	Multiplier	Add
Small Ring (Arm)	<input type="text" value="7.000"/>	<input type="text" value="1334.5"/>	<input type="text" value="0.00321"/>	<input type="text" value="2.71387"/>
Large Ring (Arm)	<input type="text" value="11.000"/>	<input type="text" value="2580.0"/>		
Pad Closed		<input type="text" value="988.0"/>	<input type="text" value="0.00250"/>	<input type="text" value="-2.47000"/>

ZDEN CALIPER AFTER LOG VERIFICATION SUMMARY

Series	2223XA	Asset	10097564	Time	August 22, 2007 09:14
	Value	Multiplier	Add	Size (in)	
Arm	1624.0	0.00321	2.71367	7.780	
Pad Closed	1380.0	0.00250	-2.47000	0.830	
		Act Size (in)	8.681	8.610	
				8.351	9.031

ZDEN 7.5IN DENSITY PRIMARY CALIBRATION SUMMARY

Series	2223XA	Asset	10097564	Time	August 16, 2007 14:52	Days since	5
Cib Blk Series	2225XA	Cib Blk Asset	094292	Source Series	4705XA	Source Asset	16109B
LS CS PK (Channel)	224.7	SS CS PK (Channel)	224.9	LS BKGD (cps)	1613.6	SS BKGD (cps)	1014.3
MG (LO PE)	35749.3	LS (cps)	12151.6	SHR	0.838	DEN (g/cm ³)	1.679
AL	21659.2		1351.6		0.720		0.000
AL + SHIM	29017.8		2298.7				-0.016
MG + SHIM (HI PE)			5677.4				0.098
RATIO MG/AL	1.65		8.99		0.327		8.550
	1.66	1.70	8.96	9.06			

ZDEN DENSITY INTERNAL BEFORE LOG VERIFICATION SUMMARY

Series	2223XA	Asset	10097564	Time	August 22, 2007 09:06
LS	Total (cps)	CSPK (Channel)	HV (V)		
	3340.1	224.9	1435.1		
SS	22353.3	224.2	1352.5		
LV (V)	4.970			Pad Current (mA)	92.8
	4.76				80

ZDEN DENSITY INTERNAL AFTER LOG VERIFICATION SUMMARY

Series	2223XA	Asset	10097564	Time	August 22, 2007 10:44
LS	Total (Count)	CSPK (Channel)	HV (V)		
	3340.1	224.9	1439.4		
SS	22353.3	224.2	1354.0		
LV (V)	4.980			Pad Current (mA)	89.6
	4.76				80

CN INTERNAL BEFORE LOG VERIFICATION SUMMARY

Series	2436XA	Asset	10090668	Time	August 22, 2007 09:06
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Z-DENSILOG (2223XA)

CALX MP 33.61'

ZDL MP 30.98'

KNUCKLE (3930XA)

KNUCKLE (3930XA)

MINILOG (1114XB)

CALM/RLML/RNML MP 18.35'

KNUCKLE (3930XA)

KNUCKLE (3930XA)

HIGH DEFINITION INDUCTION (1530XA)

Verified: August 22, 2007 11:04

Status: Verified within tolerance

M2R1-M2R9 MP 3.19'

SP MP 1.66'

0.00'

Total Length: 61.73'
Total Weight: 793.00 lb
Max Diameter: 0' 4.00"



Baker Atlas



Company	WEXPRO COMPANY		License:	1343	
Well	STEWART #5		OWN:		
Field	POWDER WASH				
Province	MOFFAT	Province	COLORADO		
Location		Elevations		THANK YOU	
1,625' FEL 238' FNL MWNE		KB 8714.5 ft			
		DF N/A			
		GL 8701.0 ft			
SEC	32	TWP	12N	RGE	97W