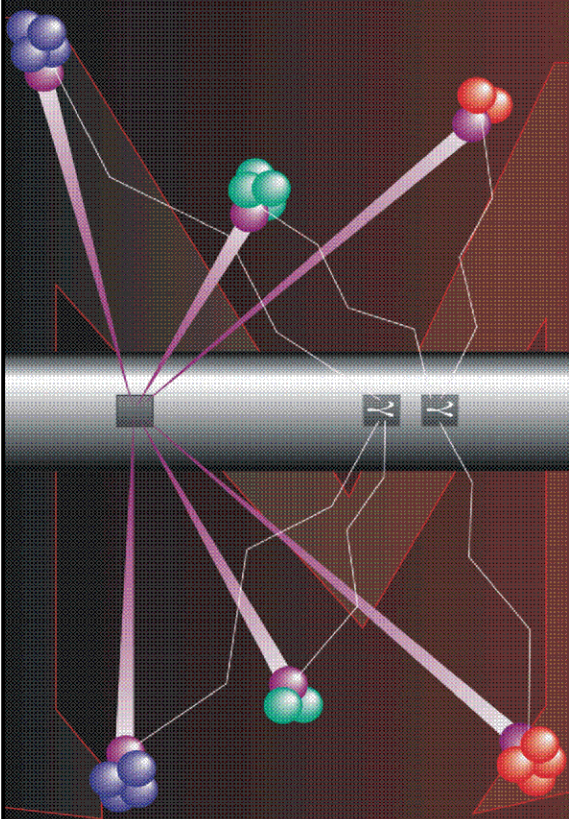




# Pulsed Neutron Formation Evaluation



## RESERVOIR PERFORMANCE MONITOR GASVIEW SATURATION ANALYSIS

COMPANY EXXONMOBIL PRODUCTION COMPANY

WELL PCU 297-11B8

FIELD PICEANCE CREEK

COUNTY RIO BLANCO STATE COLORADO

LOCATION: 392' FSL & 480' FEEL

SEC 11 TWP 2S RGE 9W

ELEVATIONS:

KB 7157.5 FT DF 7156.5 FT GL 7131 FT

DATE 13-JAN-2010 ECC 3230

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE 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.

### COMPUTATION PARAMETERS

COMPUTATION	LOGS USED: <u>RPM-C</u>	PROGRAM: <u>GASVIEW</u>	
	CENTER: <u>DENVER GEOSCIENCE</u>	LOG ANALYST: <u>M.RUST</u>	DATE: <u>13-JAN-2010</u>
FIELD DATA	LOCATION: <u>VERNAL, UT</u>	ENGINEER: <u>KAUTT/576407</u>	DATE: <u>09-JAN-2010</u>
FROM	TO		
<u>6670 FT</u>	<u>12540 FT</u>		

### REMARKS

ISS CUTOFF VALUE FOR COAL/WASHOUT IS 780000 (ZONE 1) AND 740000 (ZONE 2)  
POROSITY CUTOFF VALUE FOR GAS SATURATION IS 5 PU

GASVIEW LOG PROCESSED IN TWO ZONES:

ZONE 1: 6670-8588 FT  
ZONE 2: 8588-12540 FT

BOND LOG PRIMARY LOG

CASING COLLAR CORRECTION APPLIED TO THE DATA

SGCORF = GAS SATURATION WITH GAS CUT CEMENT CORRECTION APPLIED  
 SGCRVF = GAS SATURATION WITHOUT GAS CUT CEMENT CORRECTION APPLIED

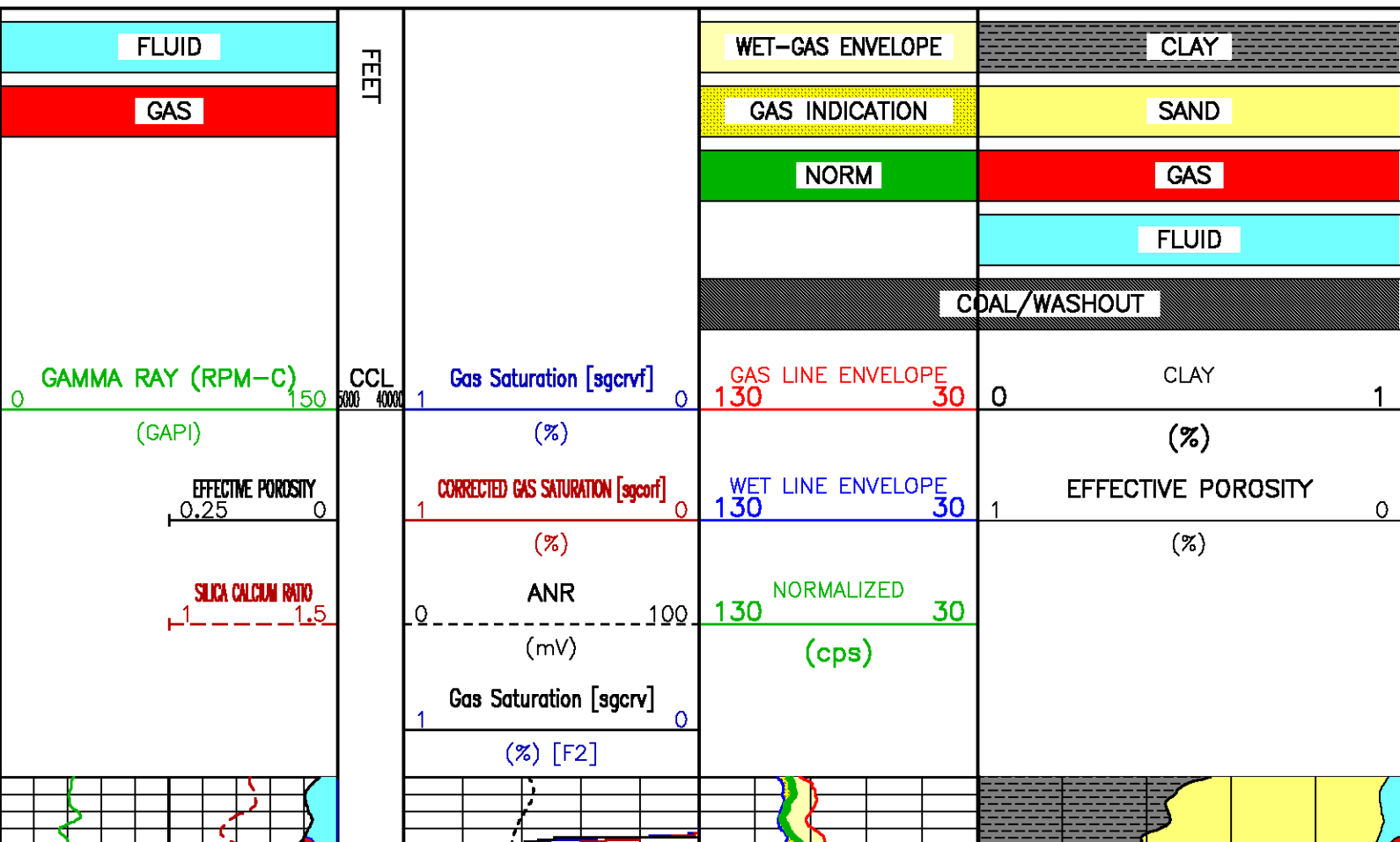
THE DISPLAYED DYNAMIC ENVELOPE IS FROM THE GAS CUT CORRECTION ANALYSIS

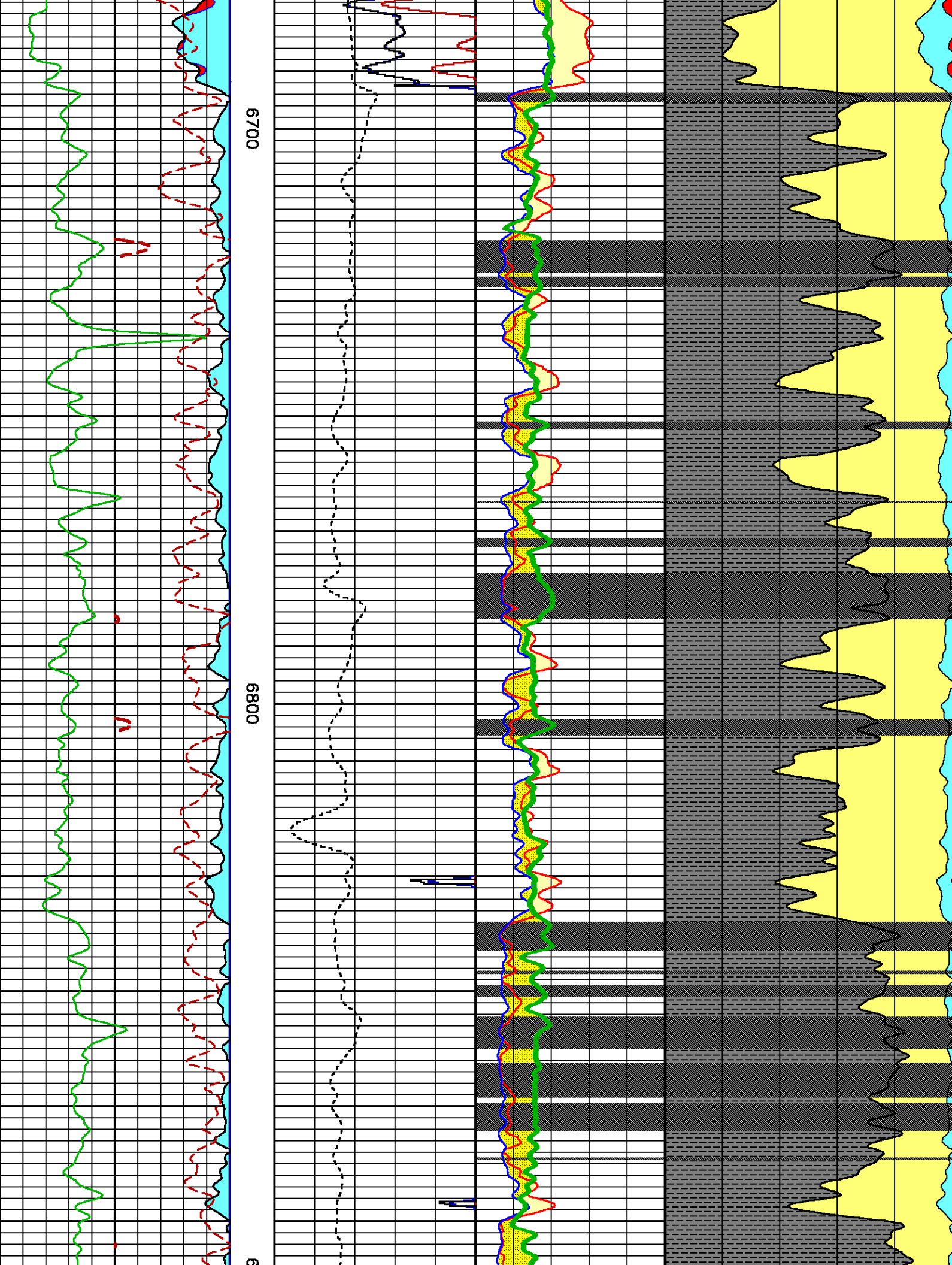
# BAKER ATLAS PRELIMINARY GASVIEW SATURATION ANALYSIS

Project : /export/home/willmis/3230\_EXXONMOBIL\_GASVIEW\_PCU\_297\_1188  
 User : willmis  
 Presentation : densrv01:/export/home/willmis/3230\_EXXONMOBIL\_GASVIEW\_PCU\_297\_1188/pncgas\_8\_5\_new\_EXXON\_BOND.pdf [5"/100' Scale]  
 Plot Interval : 6670 - 12540 Feet

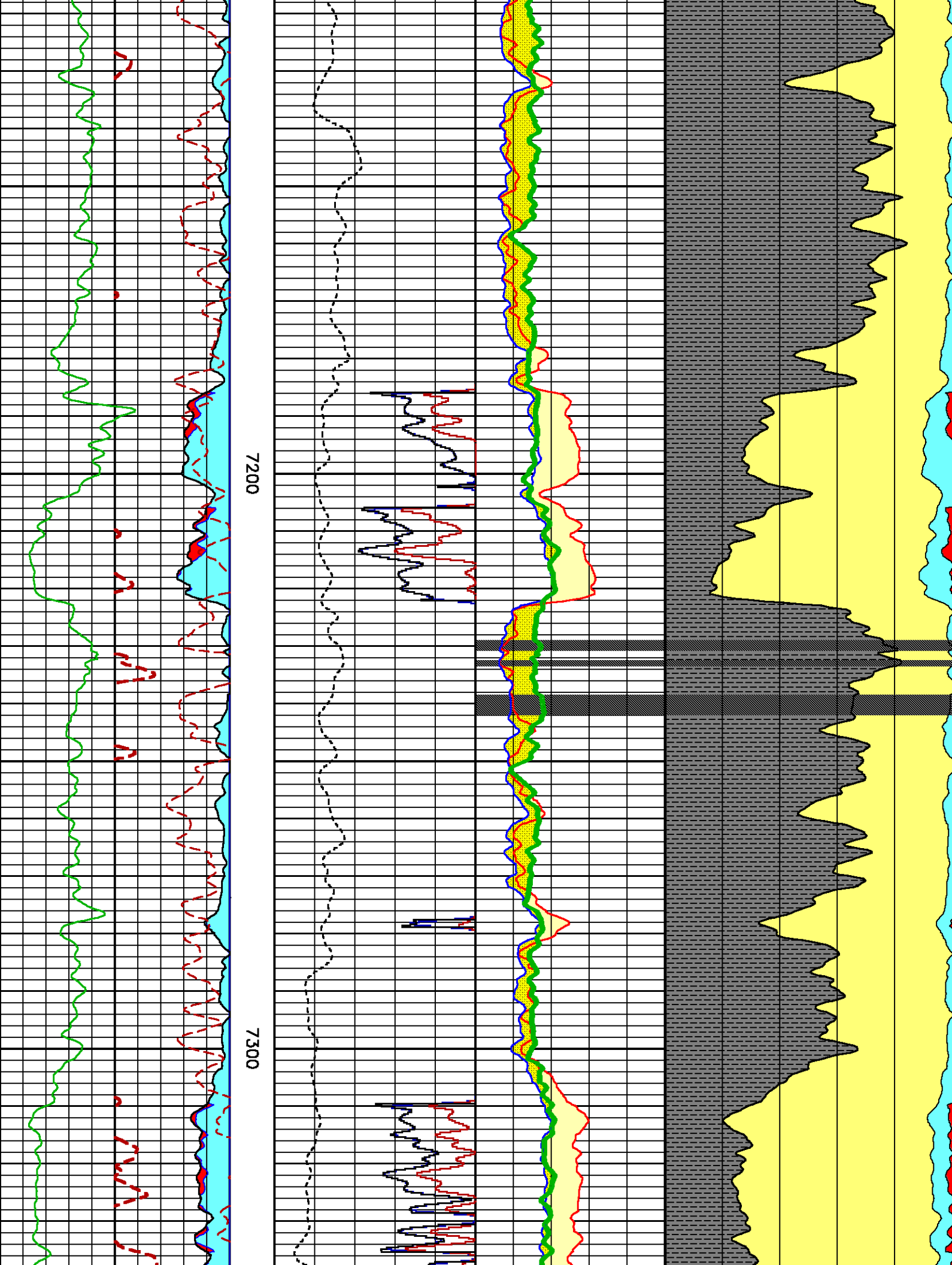
Data File 1 : F1 : densrv01:/export/home/willmis/3230\_EXXONMOBIL\_GASVIEW\_PCU\_297\_1188/main\_cor.xtf  
 Created On : Jan 12 11:48:11 2010  
 Company : EXXONMOBIL PRODUCTION COMPANY  
 Well : PCU 297-1188  
 Field : PICEANCE CREEK  
 File Interval : 3530 - 14678 Feet  
 Oct : NA

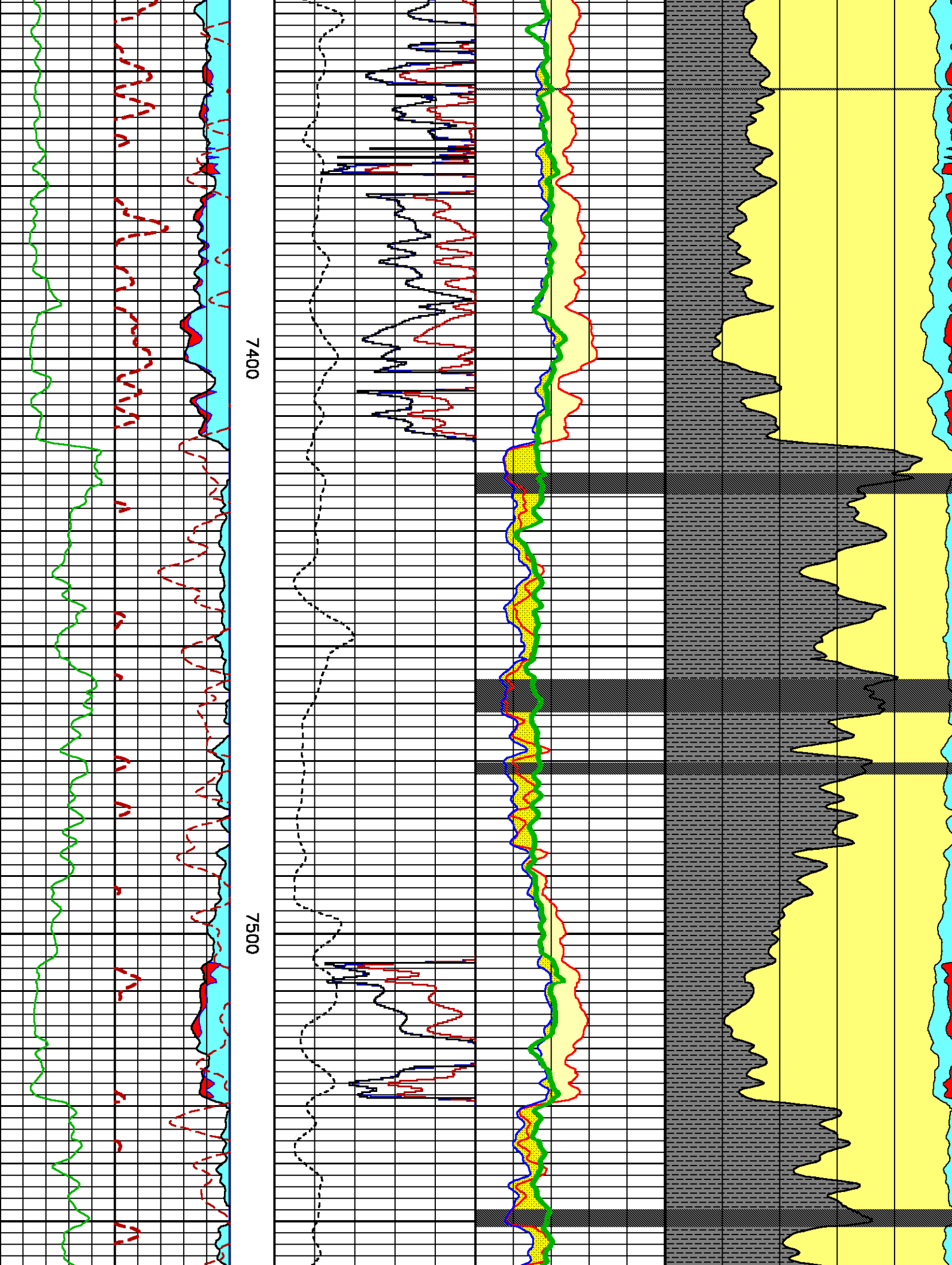
Data File 2 : F2 : densrv01:/export/home/willmis/3230\_EXXONMOBIL\_GASVIEW\_PCU\_297\_1188/main\_shift.xtf  
 Created On : Jan 12 11:48:11 2010  
 Company : EXXONMOBIL PRODUCTION COMPANY  
 Well : PCU 297-1188  
 Field : PICEANCE CREEK  
 File Interval : 3530 - 14678 Feet  
 Oct : NA

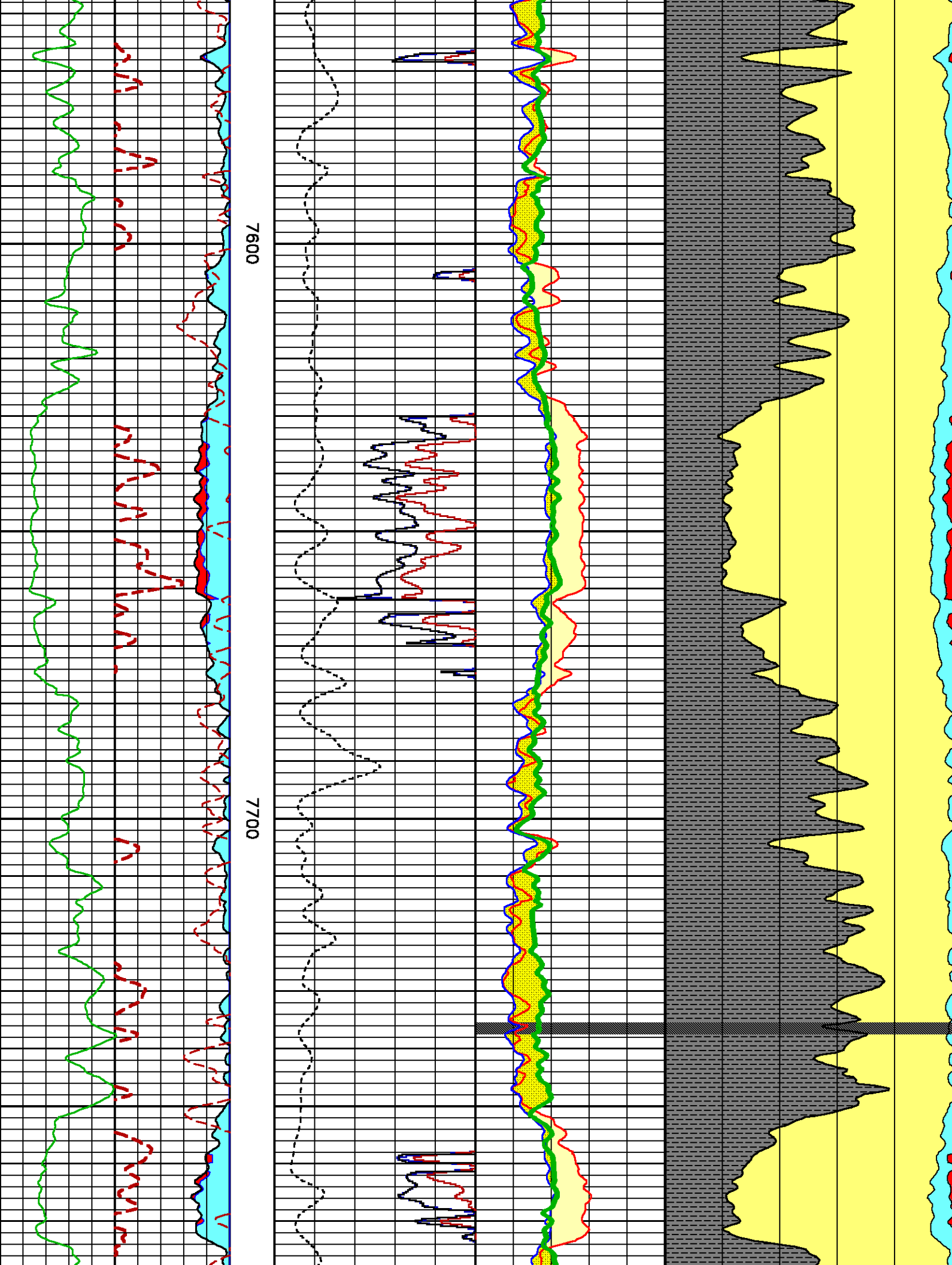


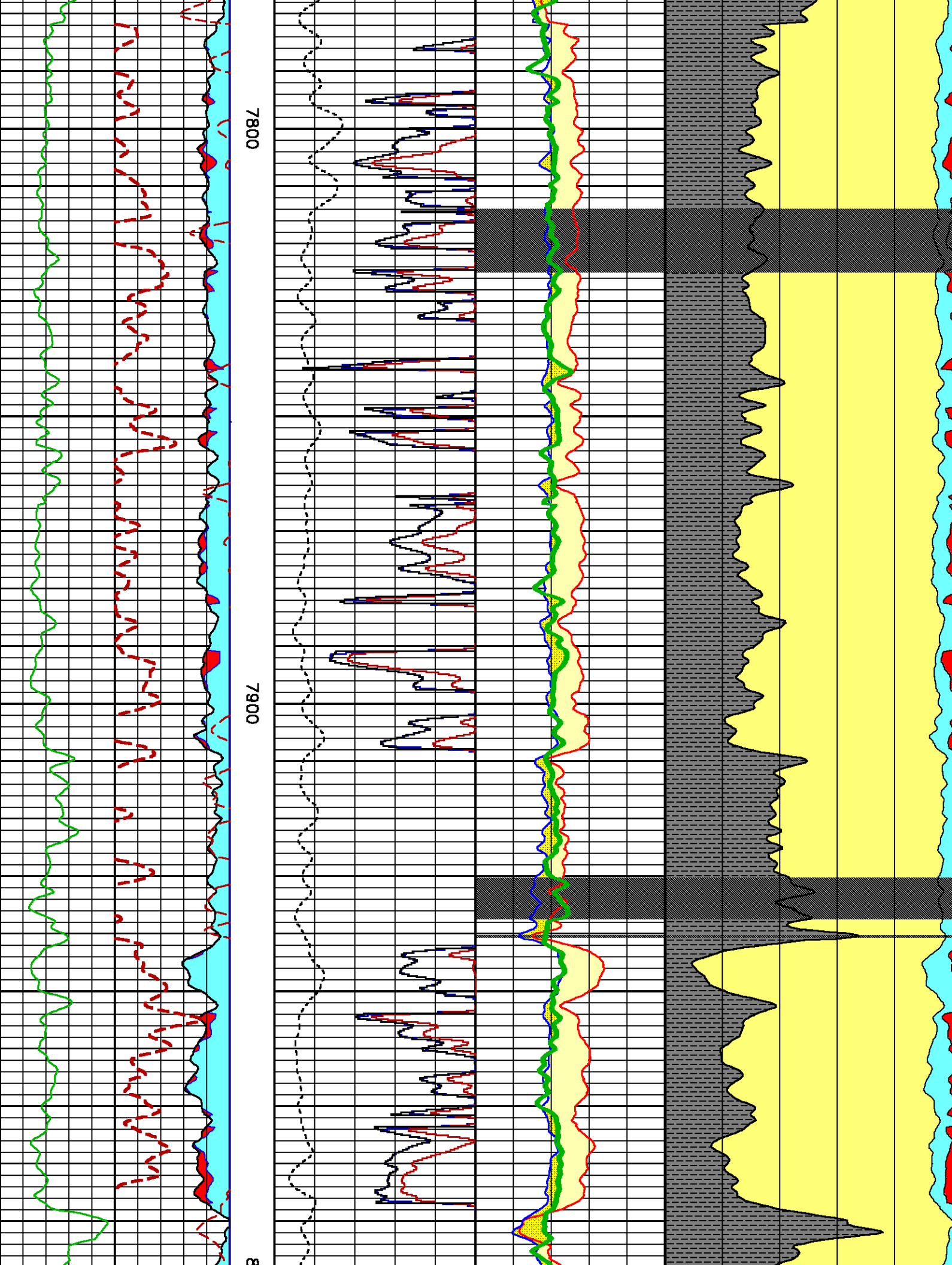


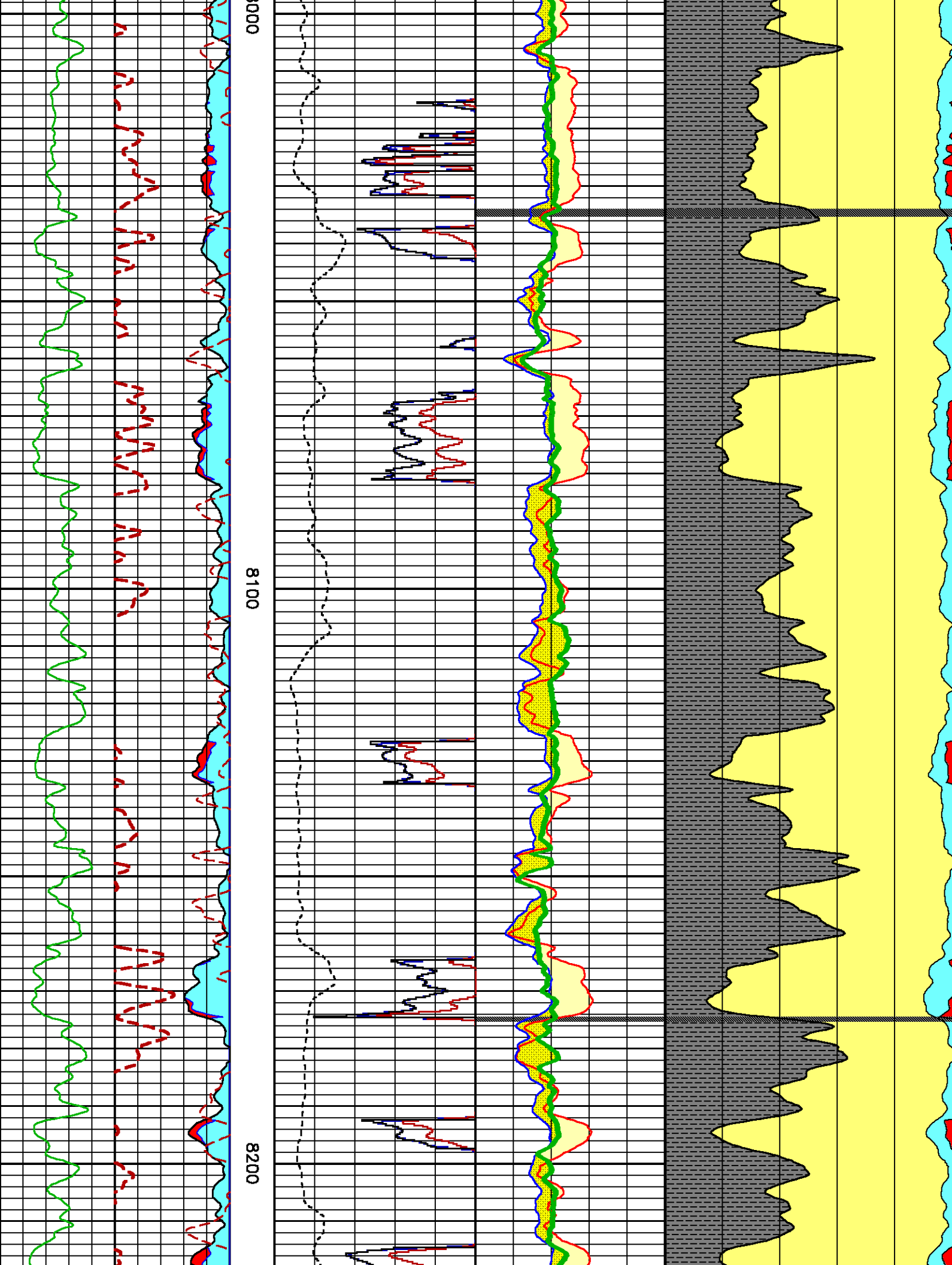


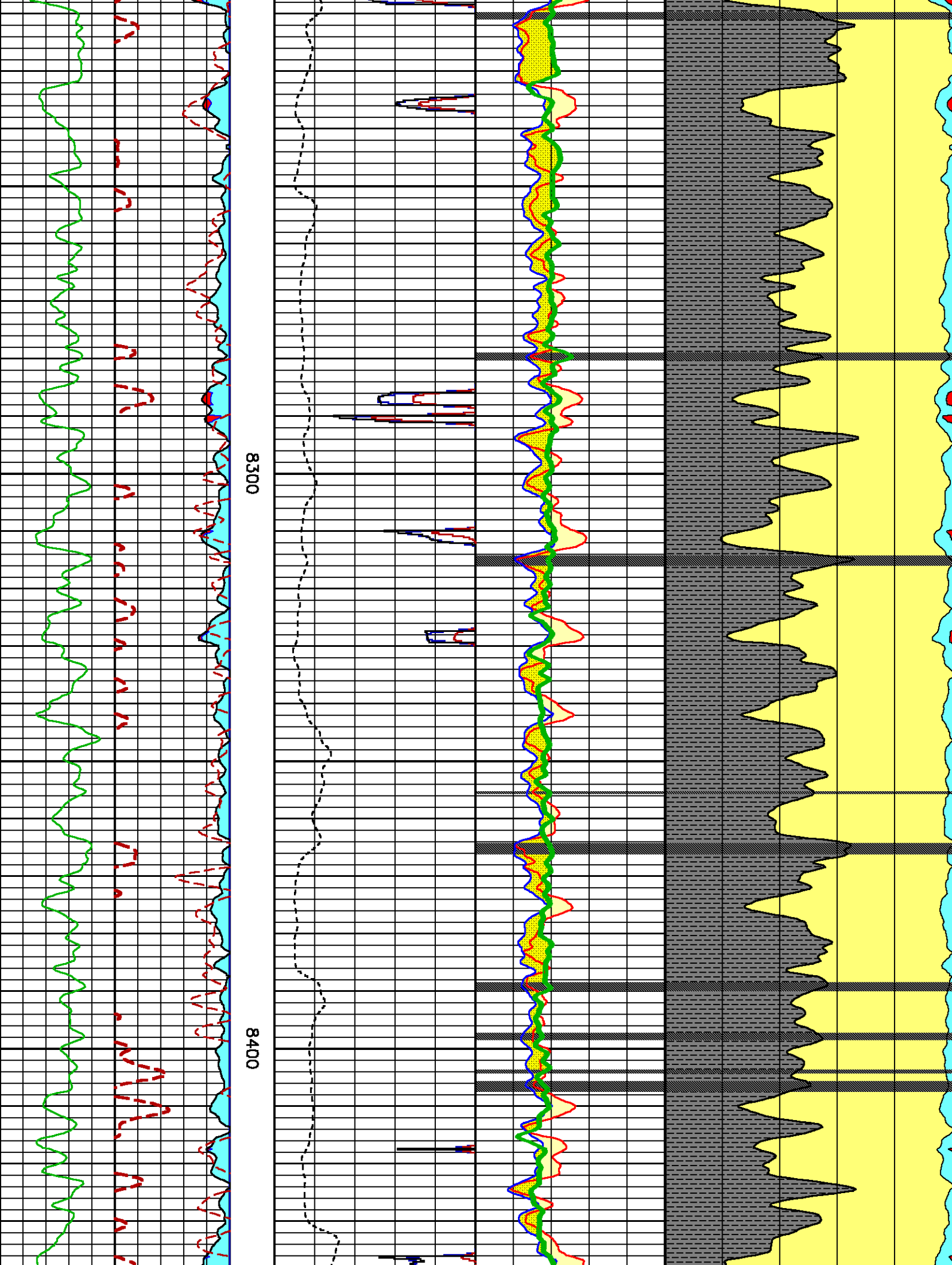


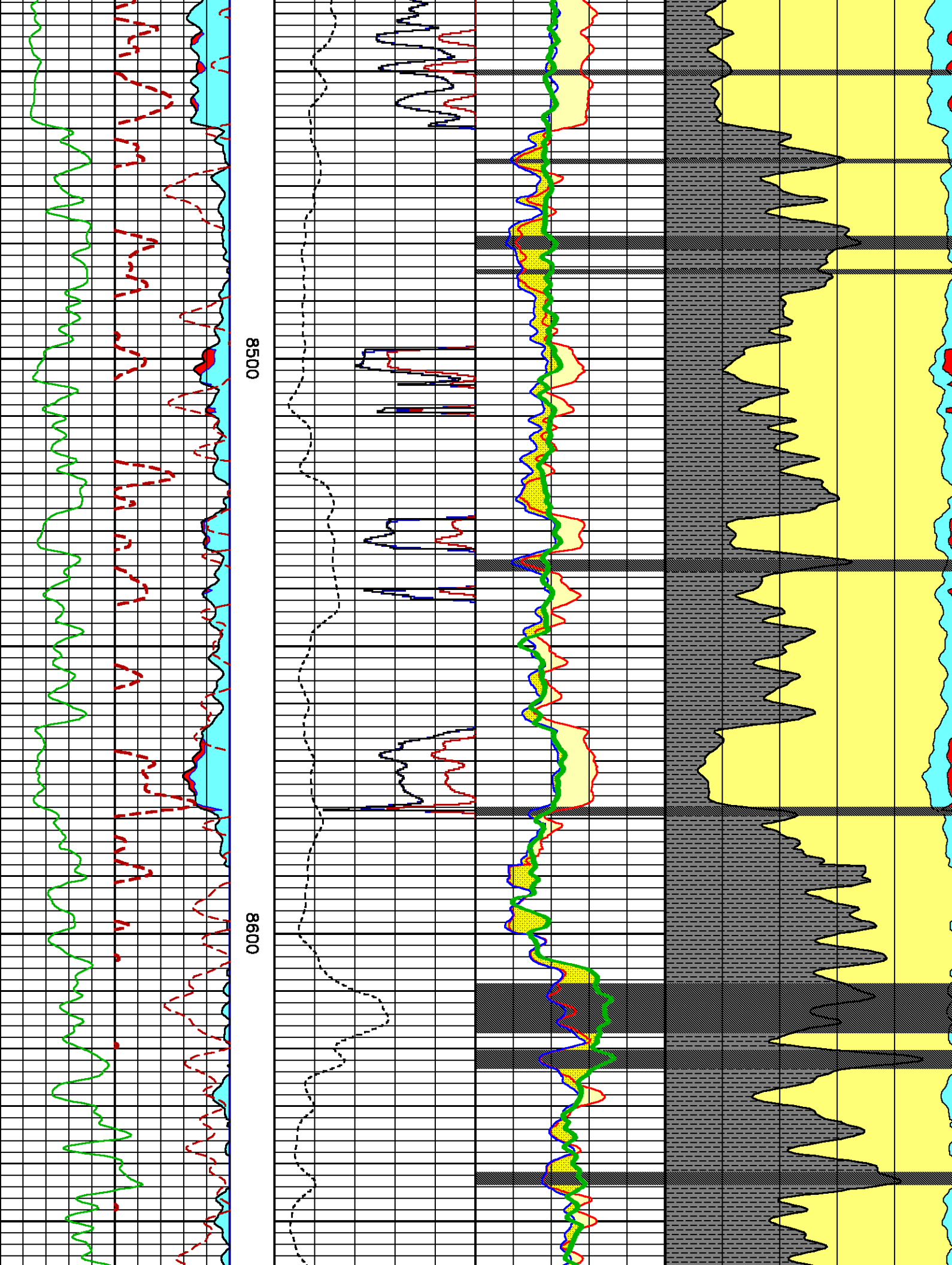


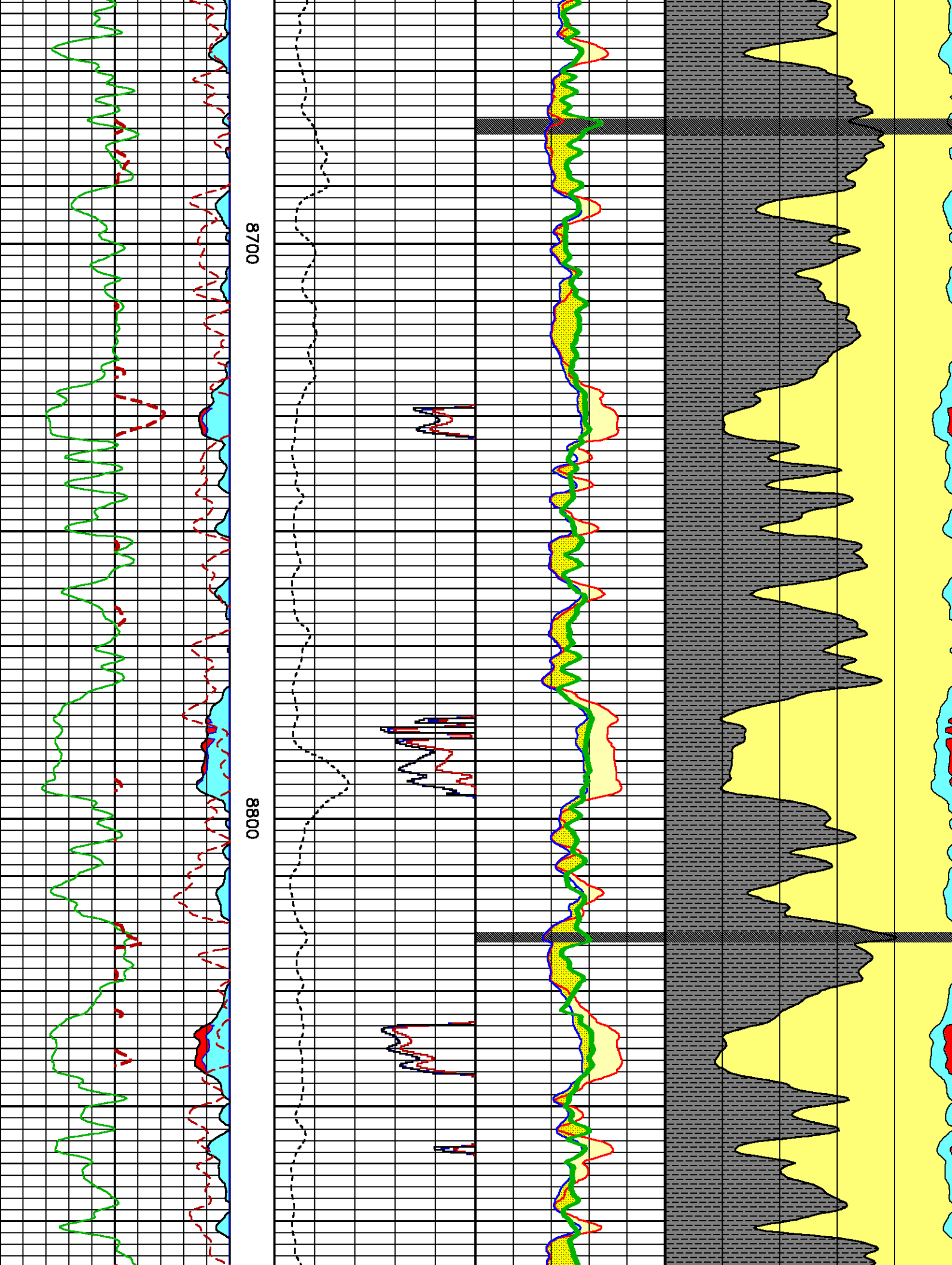


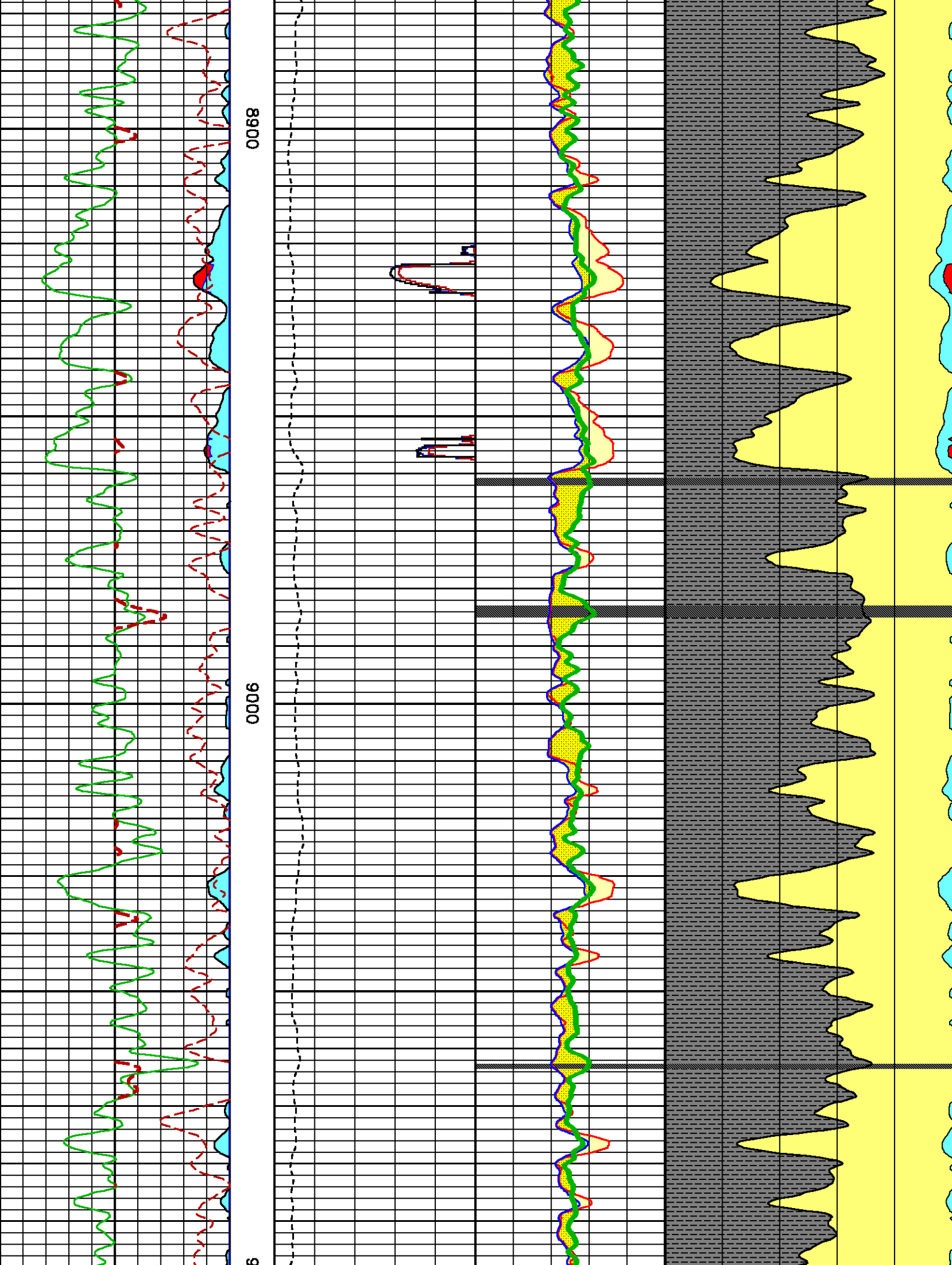


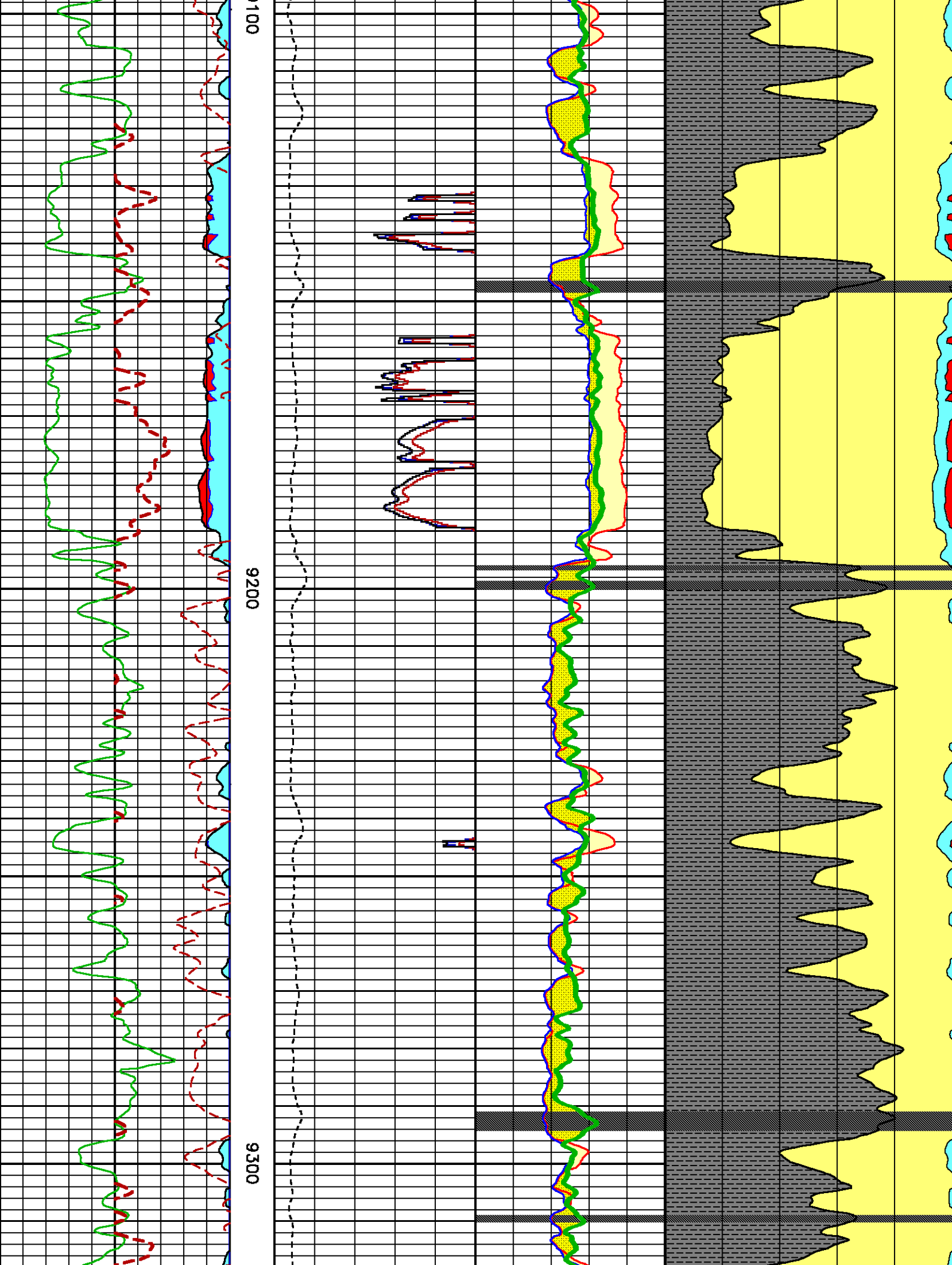


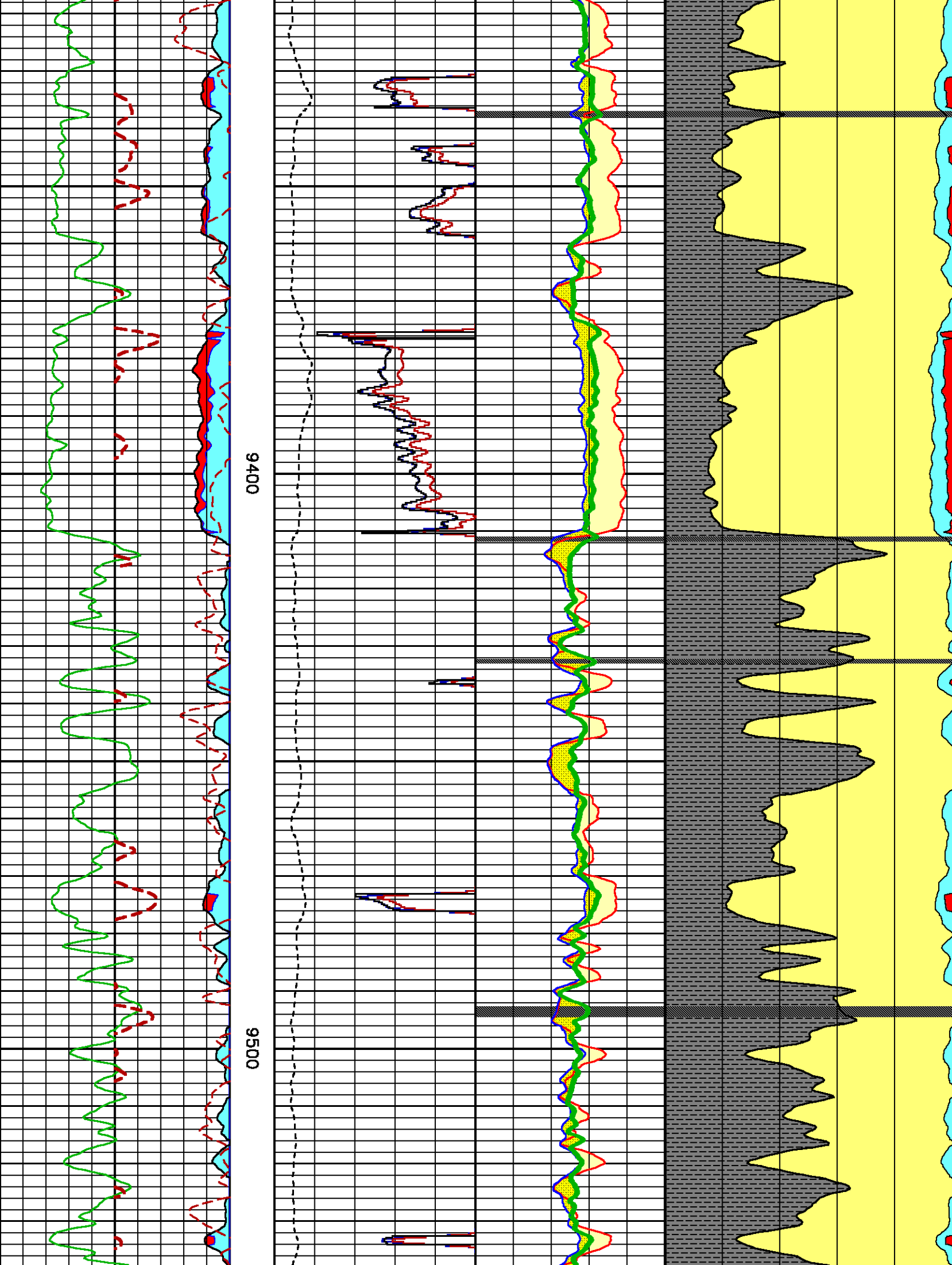


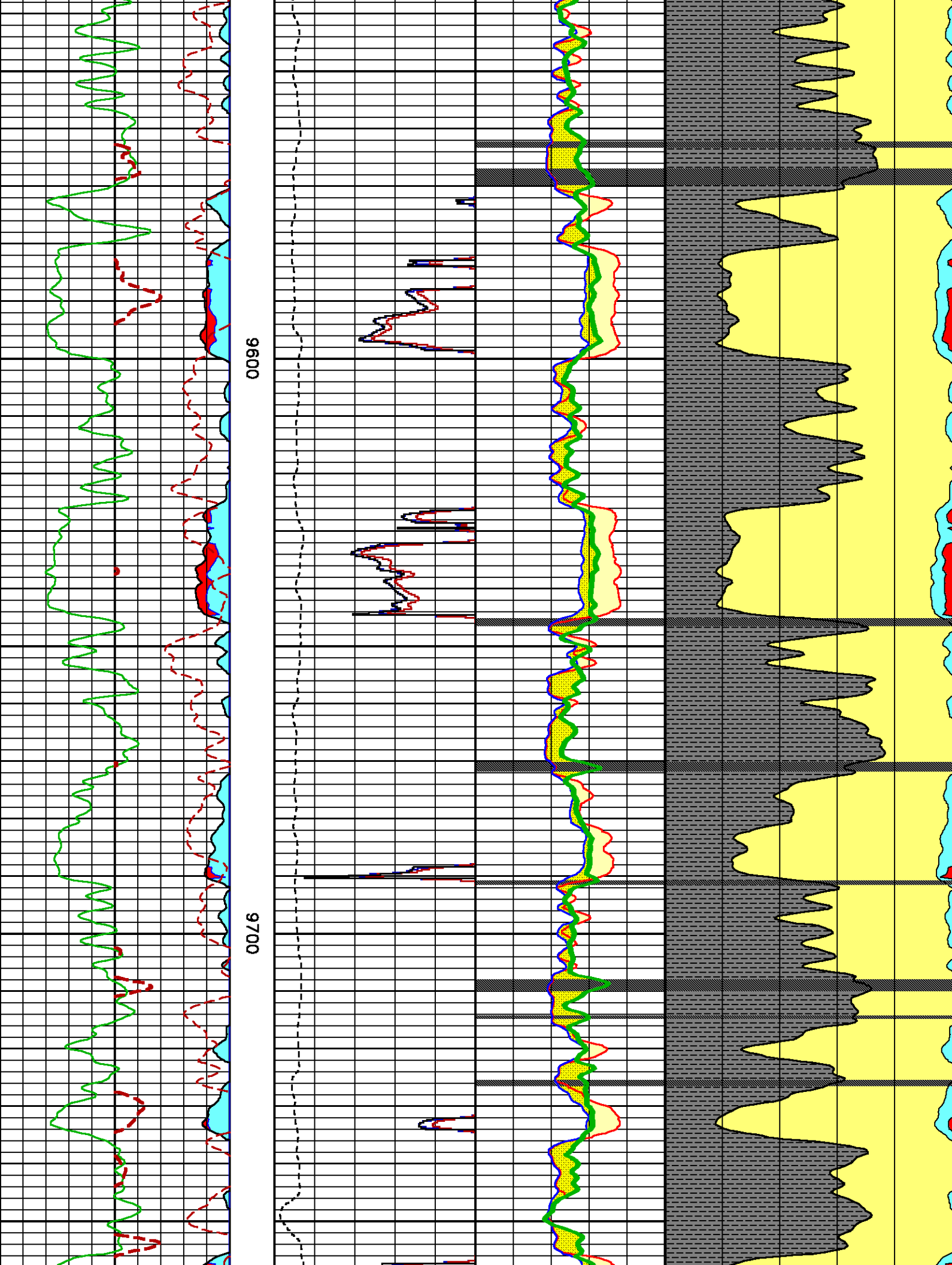


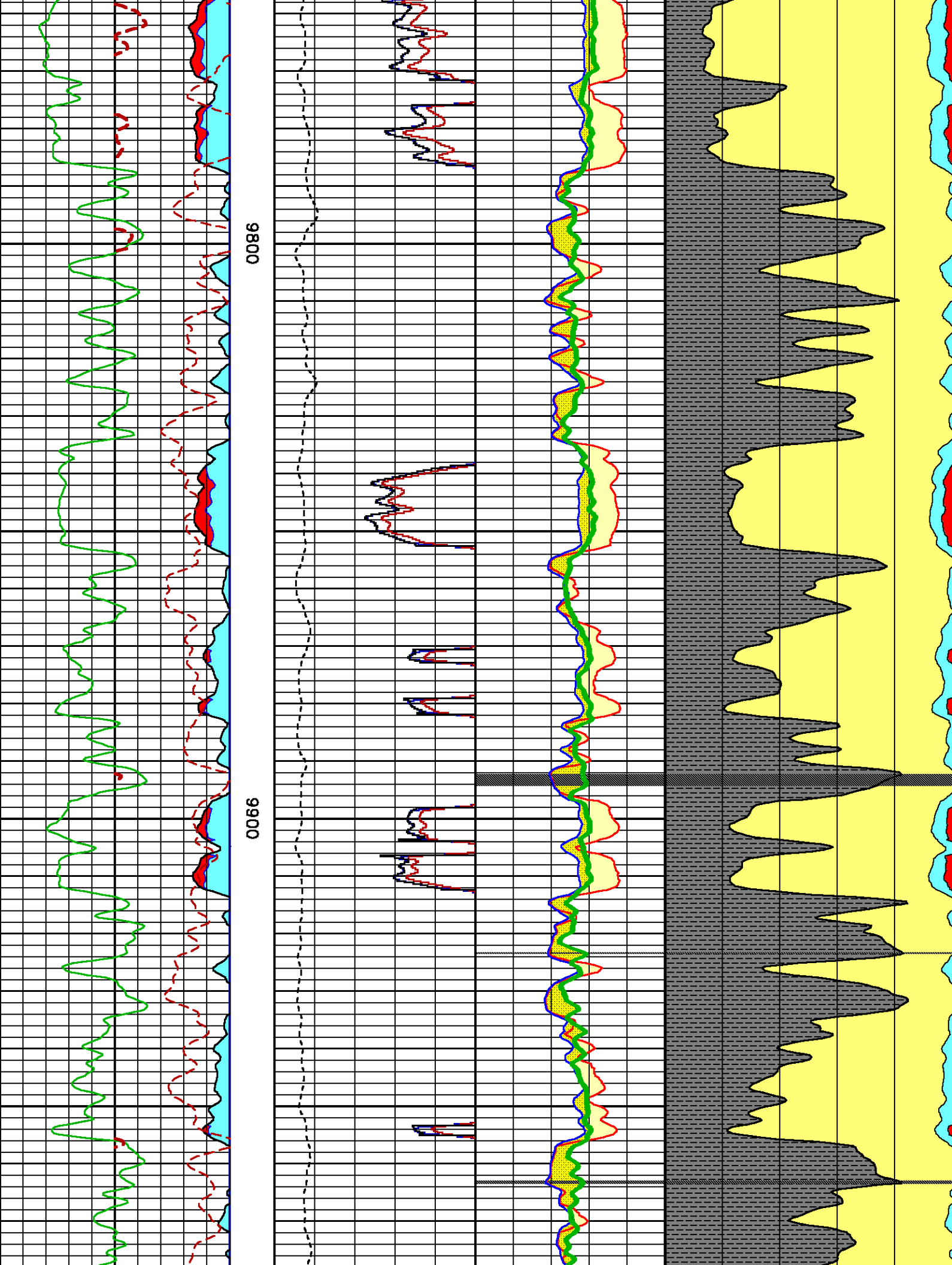


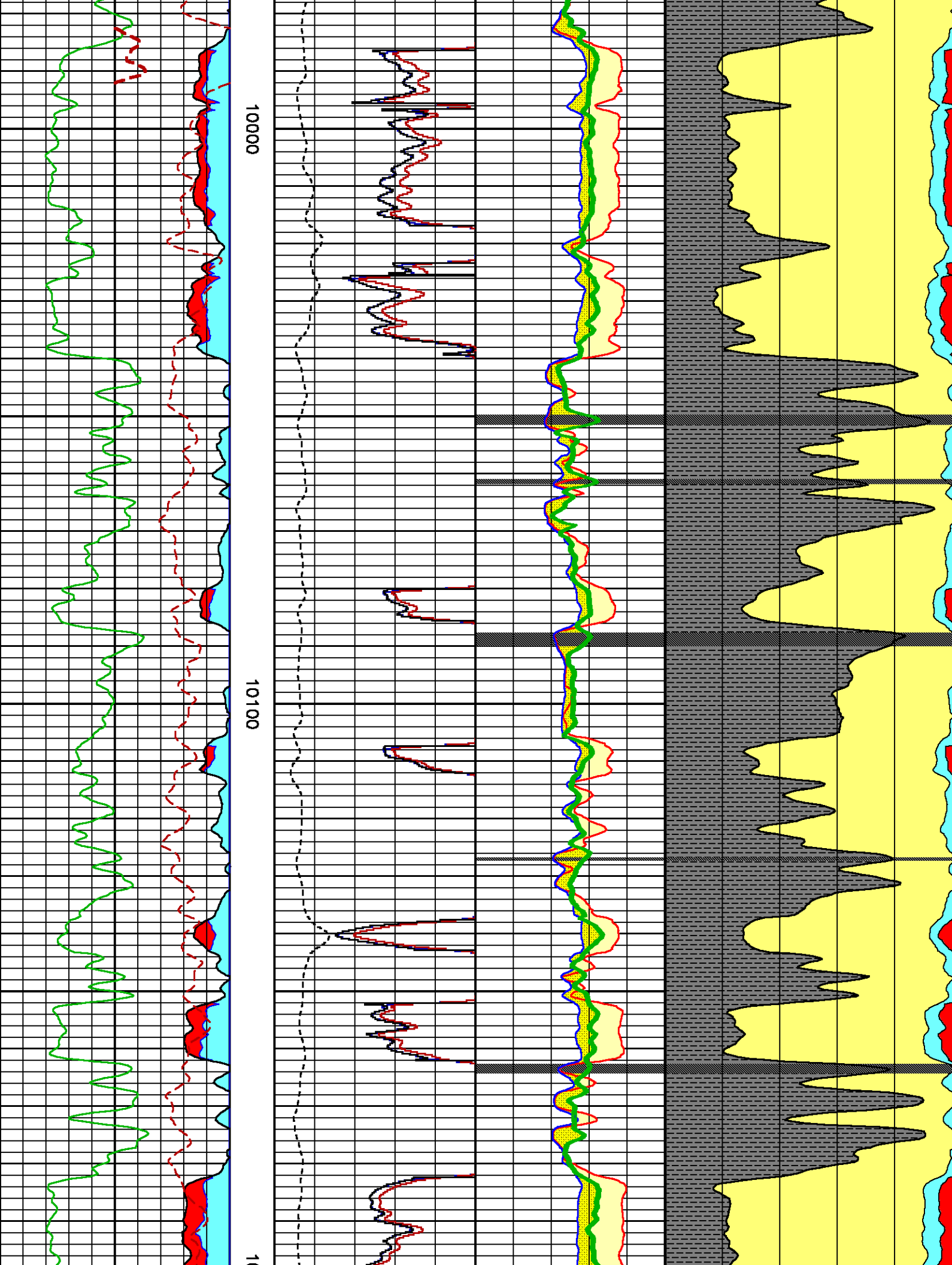


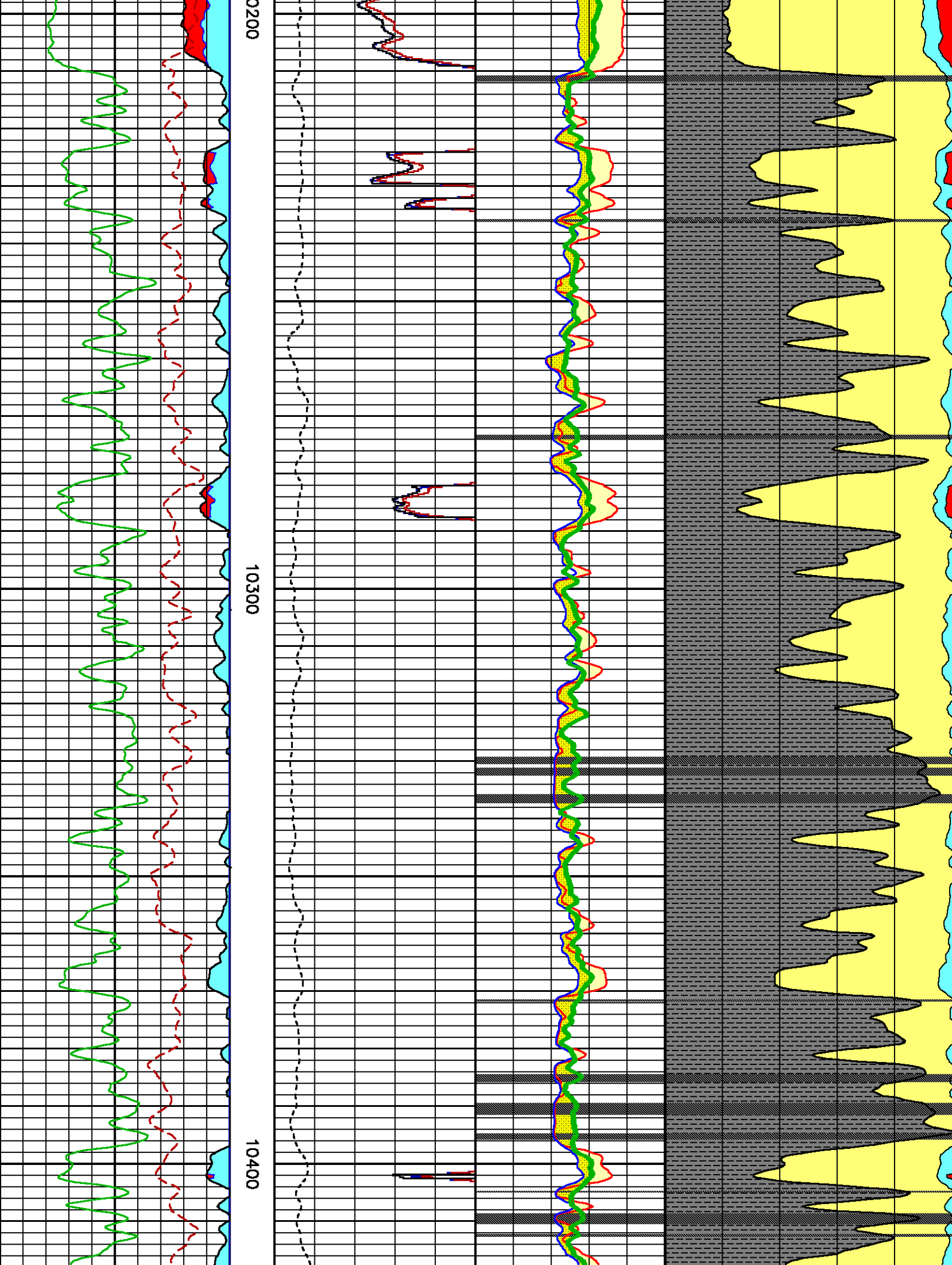


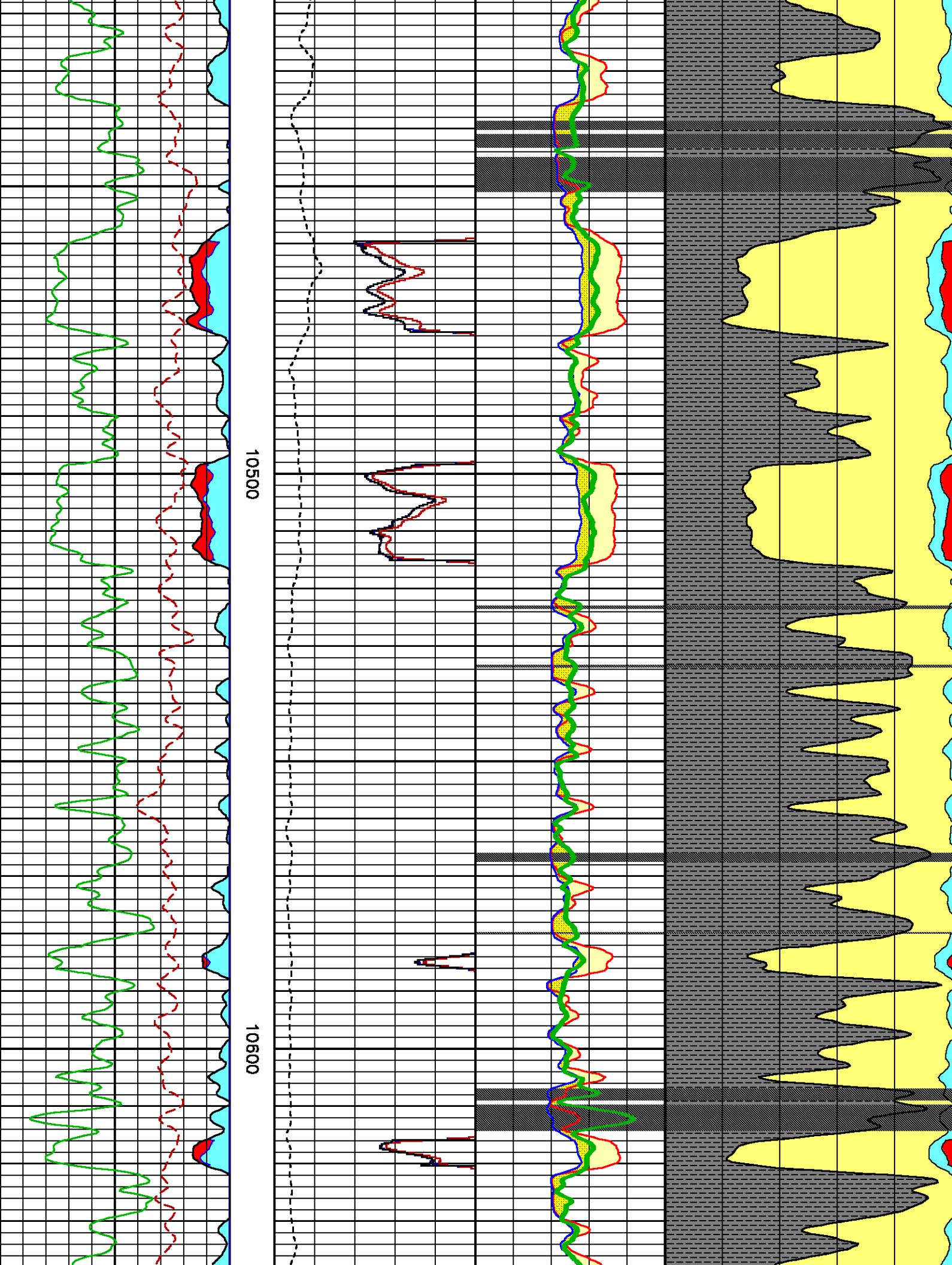


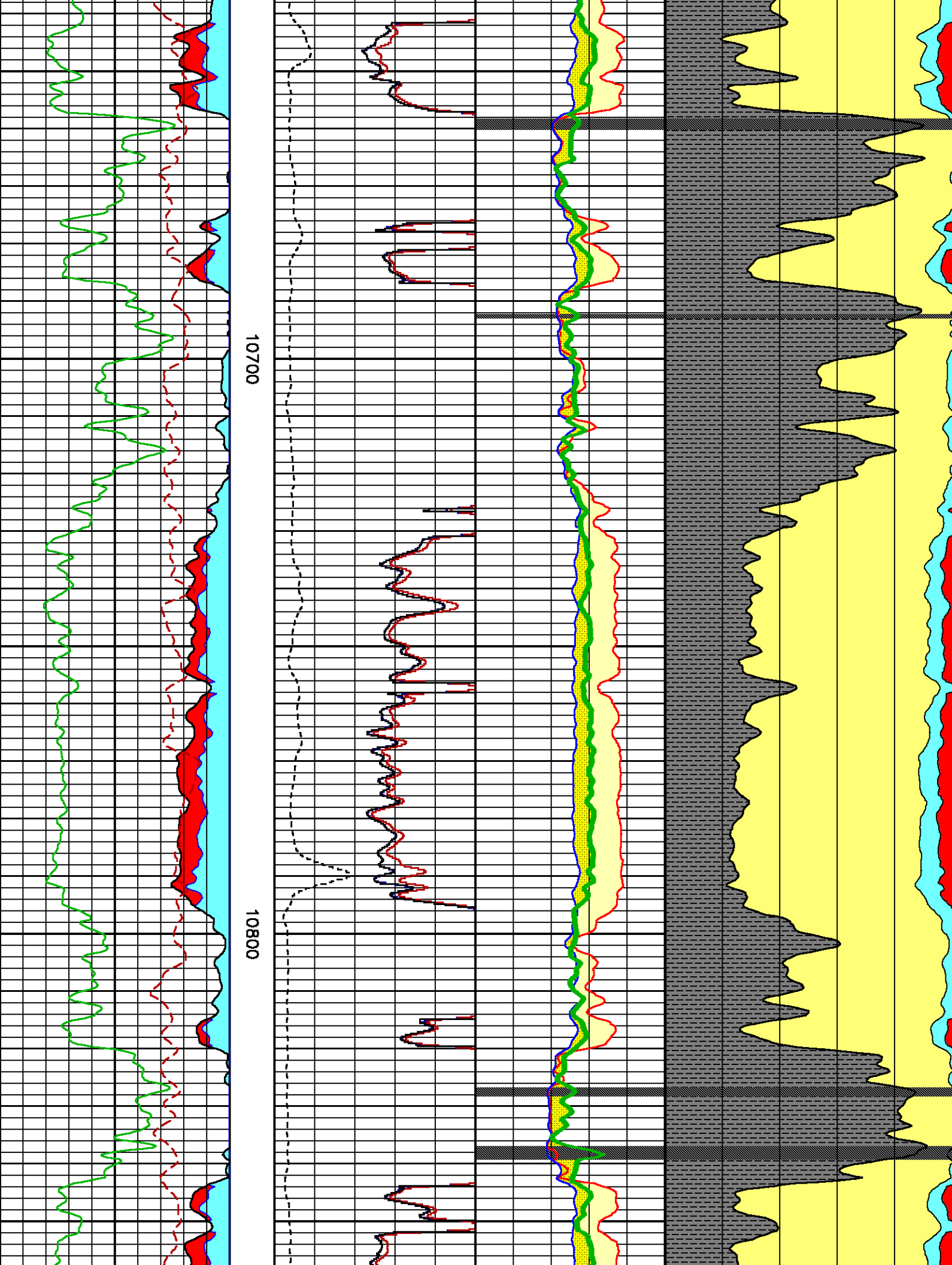


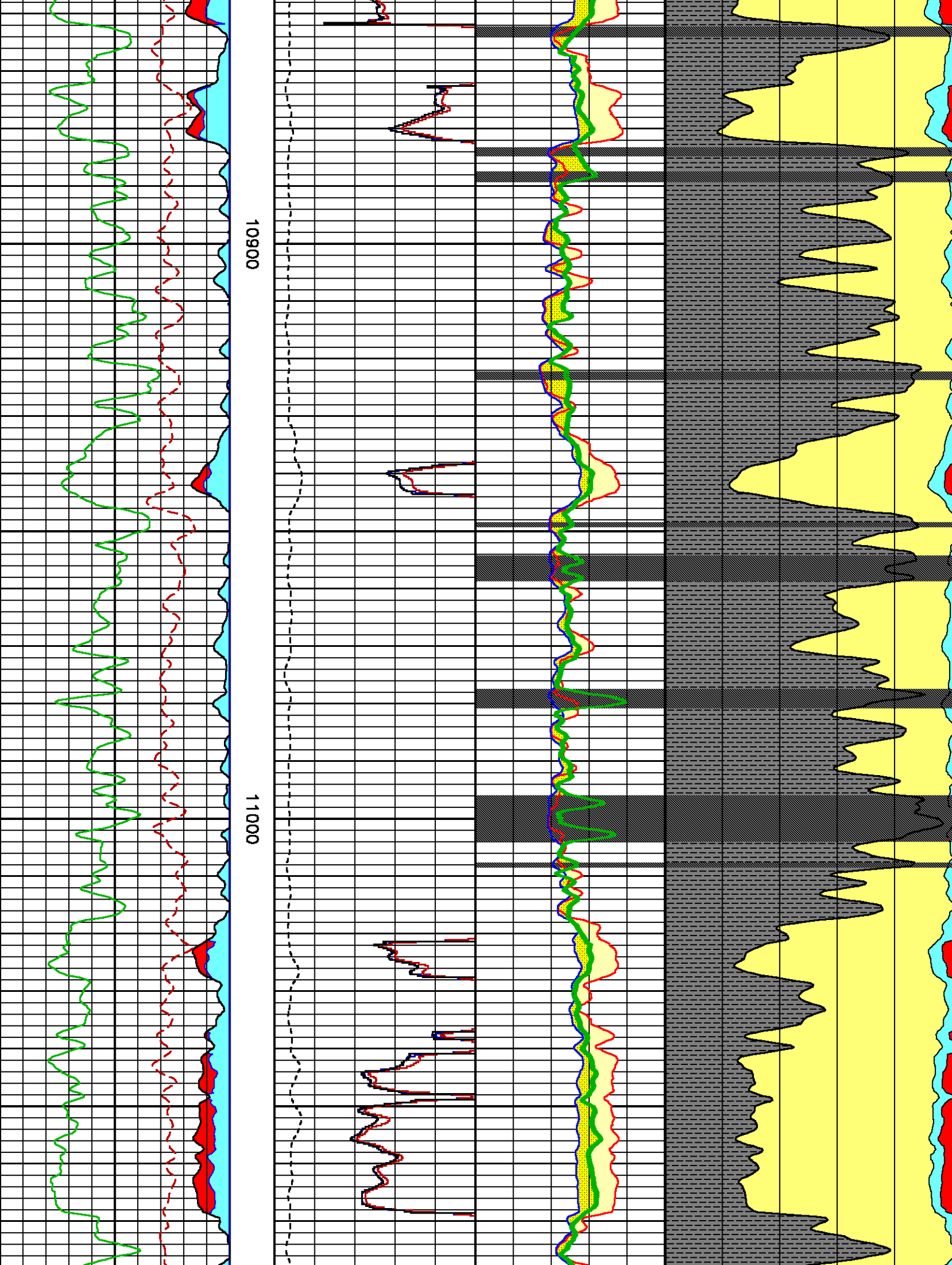


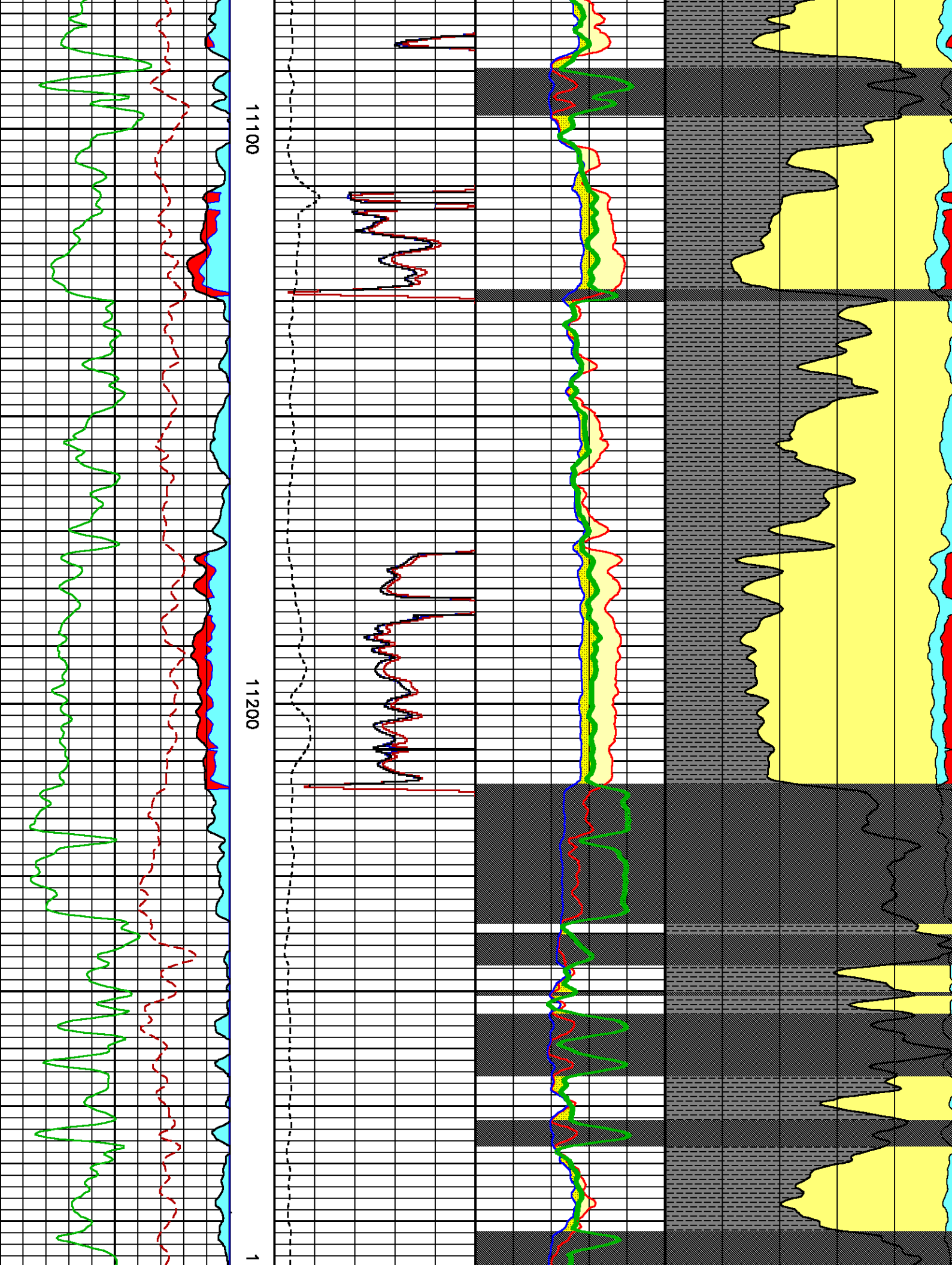


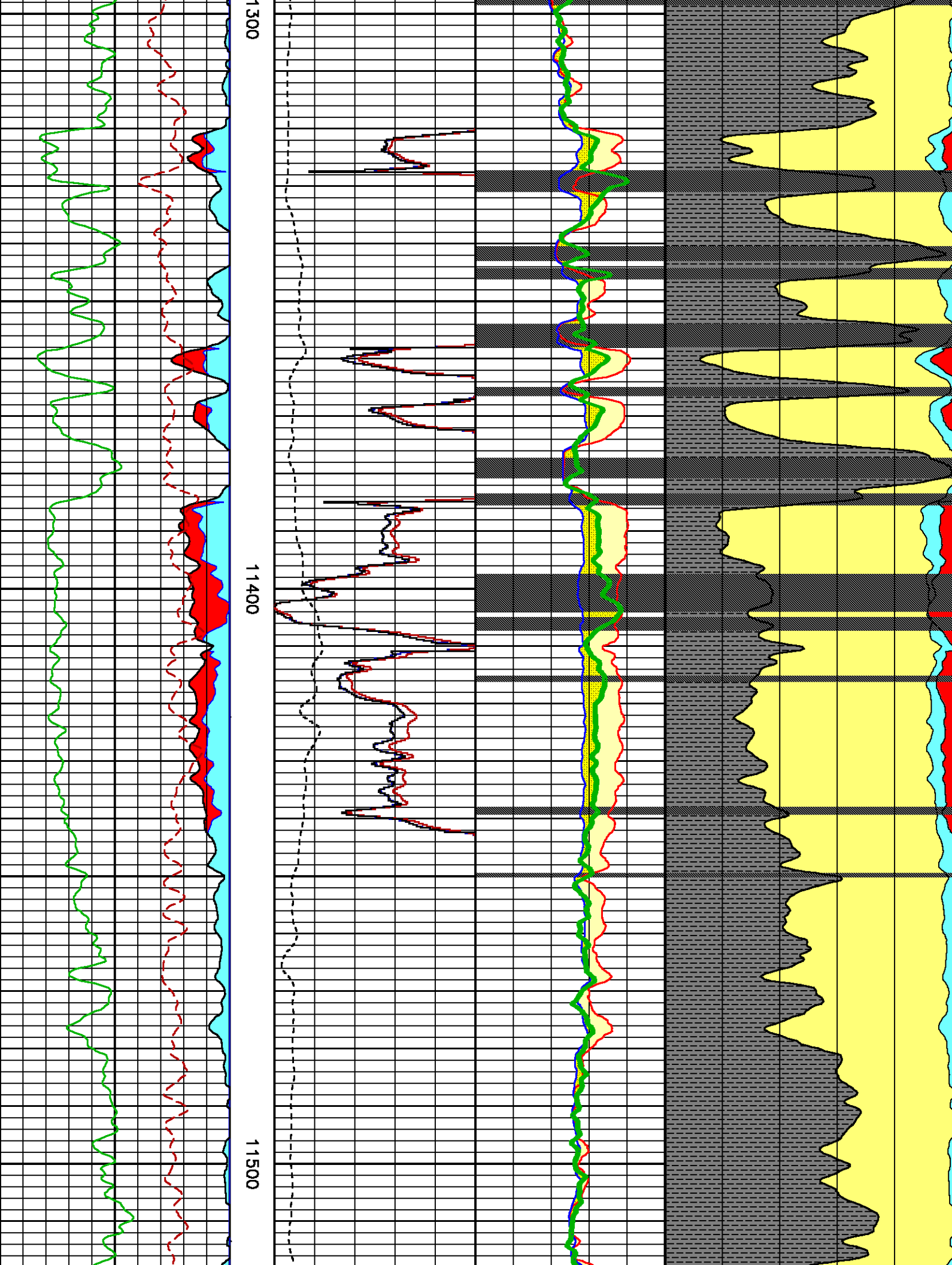


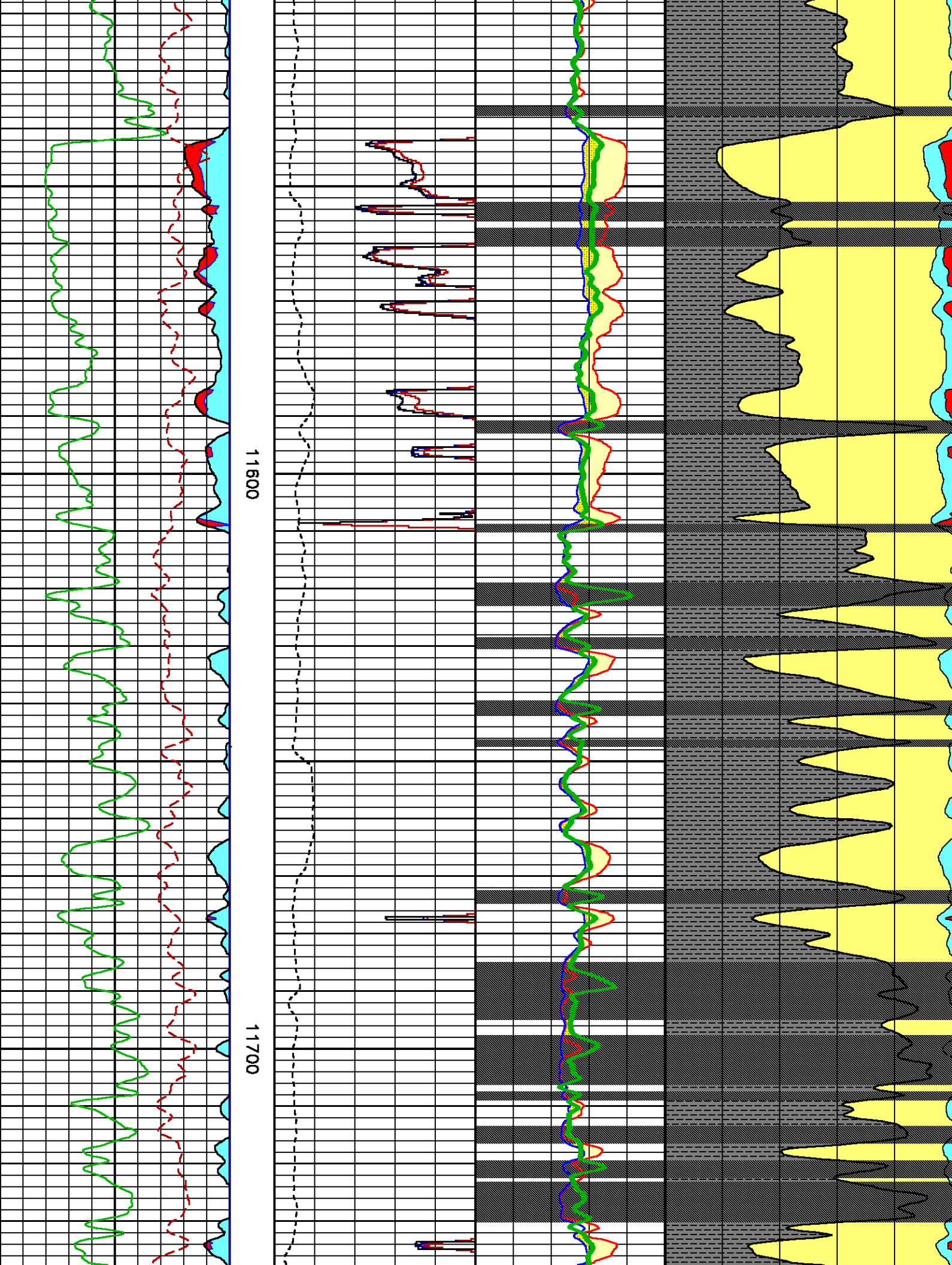


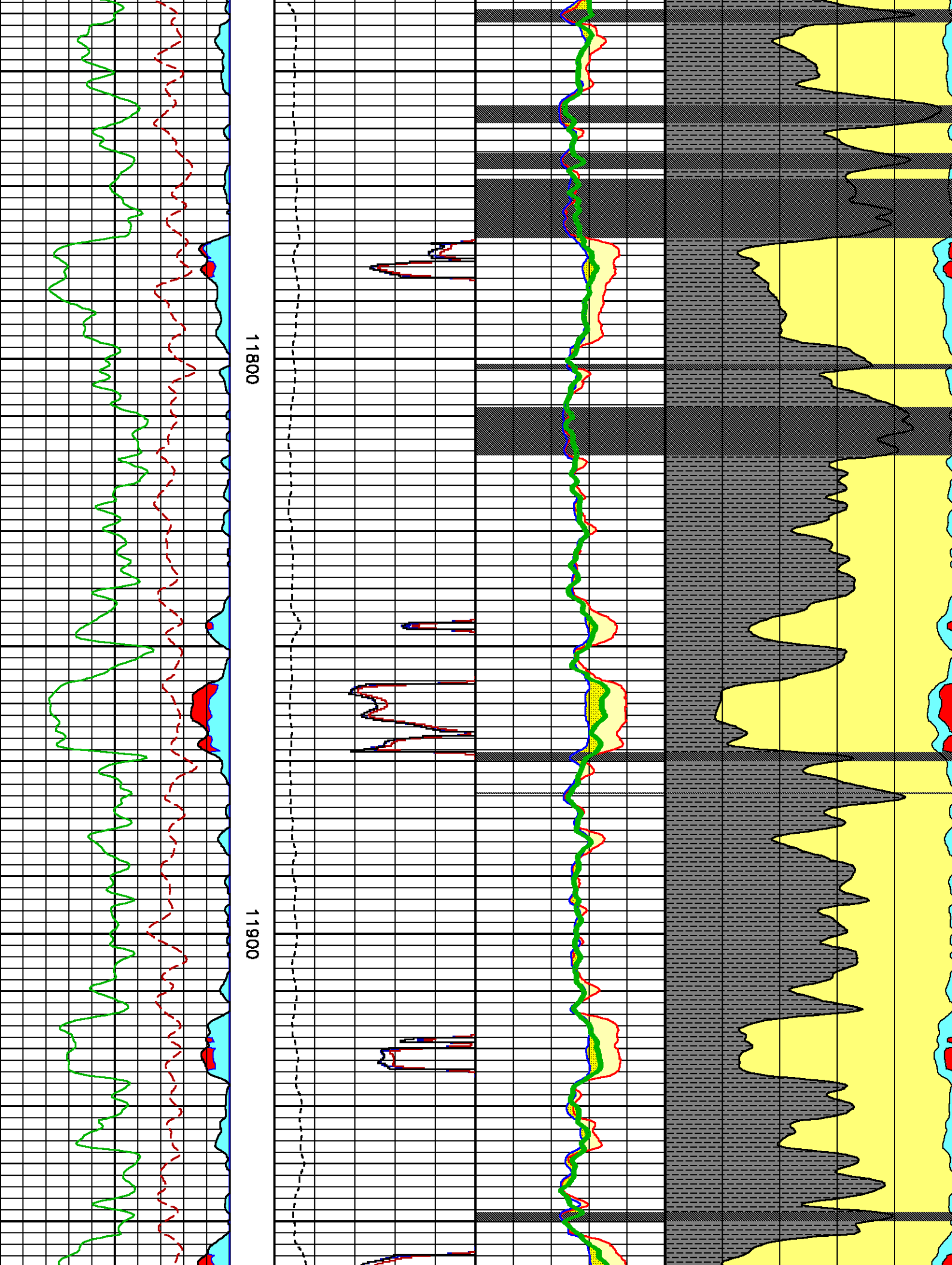


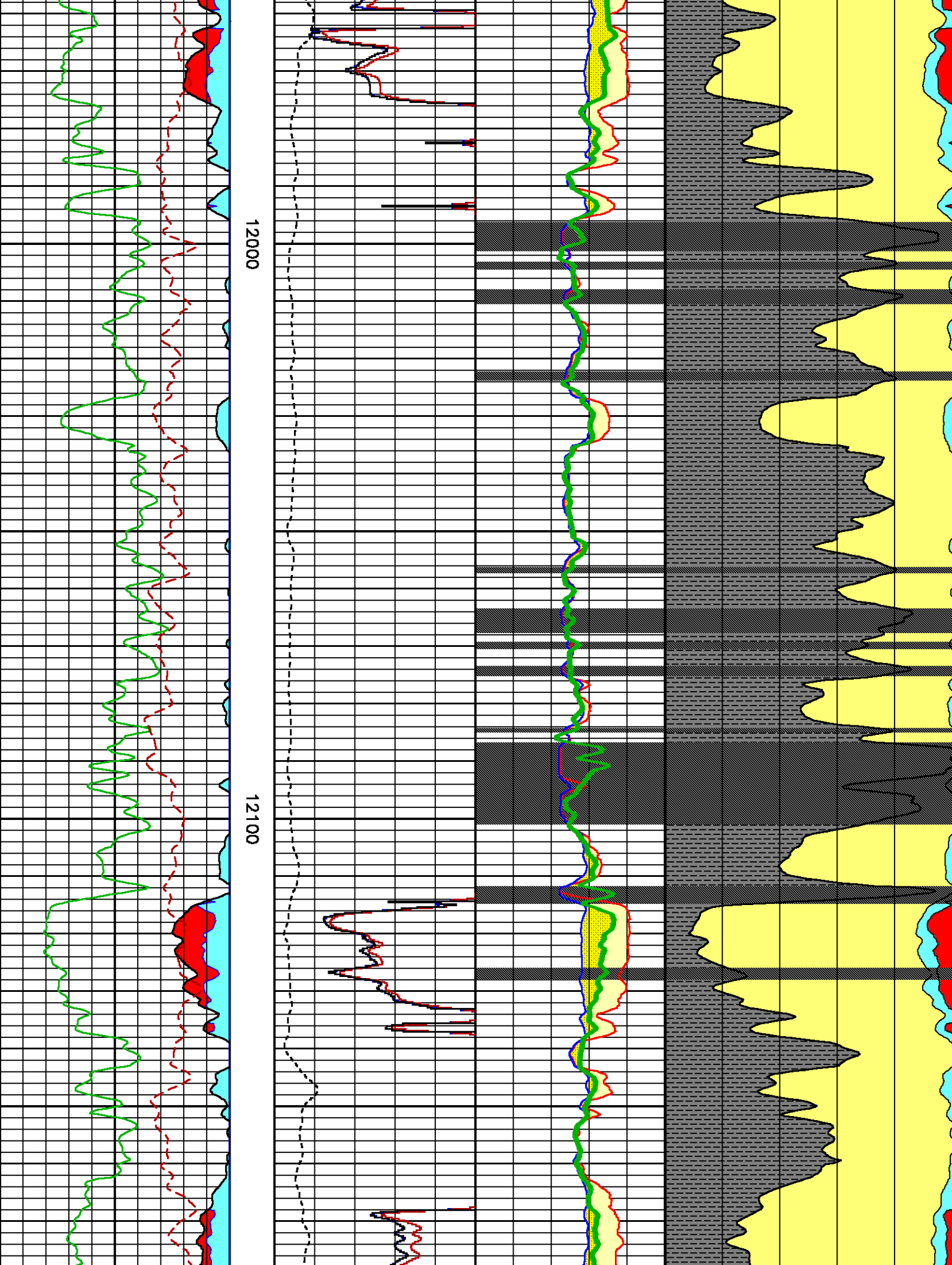


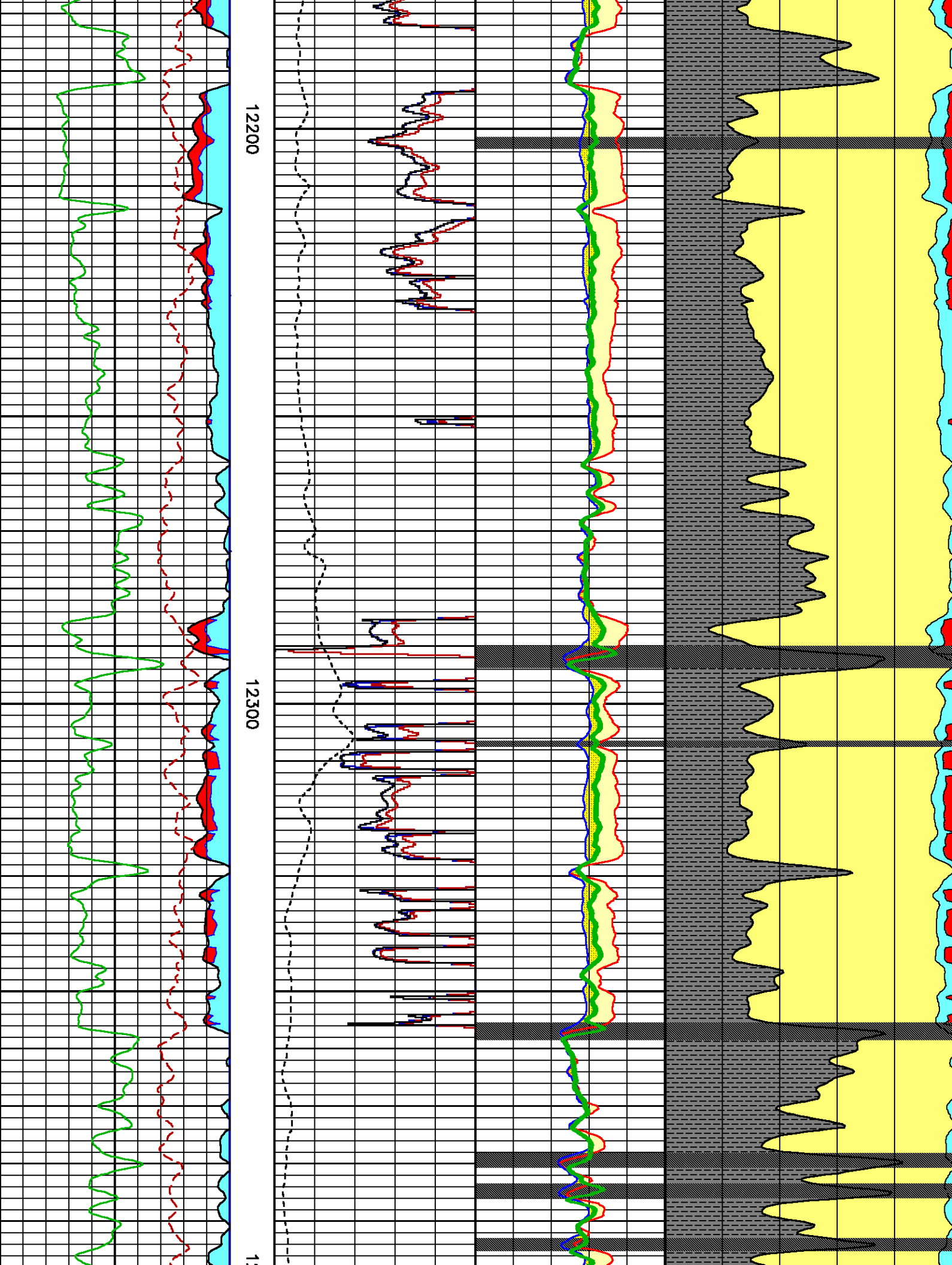


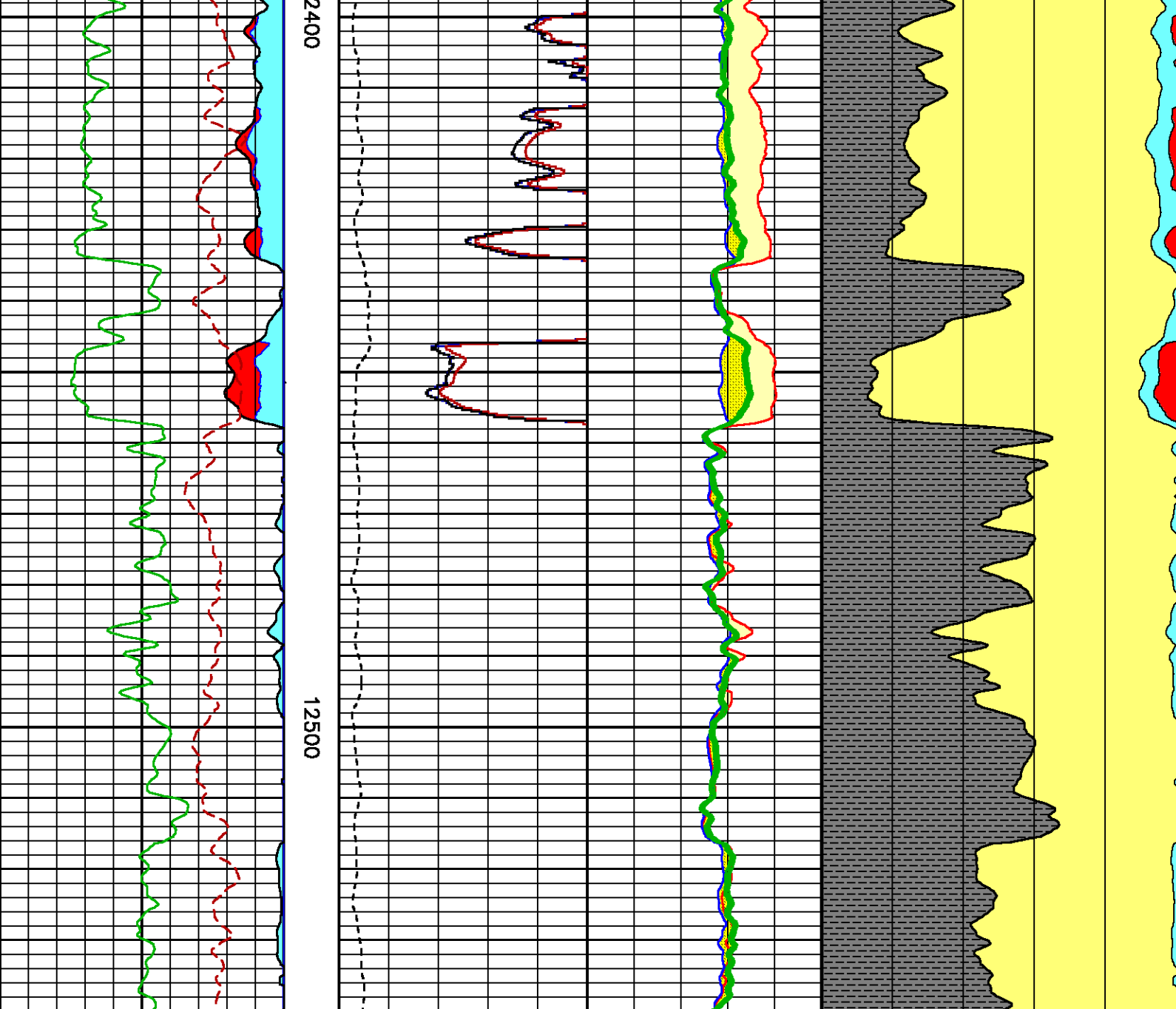












FLUID

GAS

GAMMA RAY (RPM-C)  
(GAPI)

EFFECTIVE POROSITY  
0.25 0

SILICA CALCIUM RATIO  
1 1.5

Gas Saturation [sgcrvf]

(%)

CORRECTED GAS SATURATION [sgcrvf]

(%)

ANR  
(mV)

WET-GAS ENVELOPE

GAS INDICATION

NORM

COAL/WASHOUT

GAS LINE ENVELOPE  
130 30

WET LINE ENVELOPE  
130 30

NORMALIZED  
(cns)

CLAY

SAND

GAS

FLUID

COAL/WASHOUT

CLAY  
(%)

EFFECTIVE POROSITY  
(%)

Gas Saturation [sgcrv] 0  
 1 (%) [F2]



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 DATE 13-JAN-2010

FS0: 576407  
 VERNAL, UT  
 KAUTT

