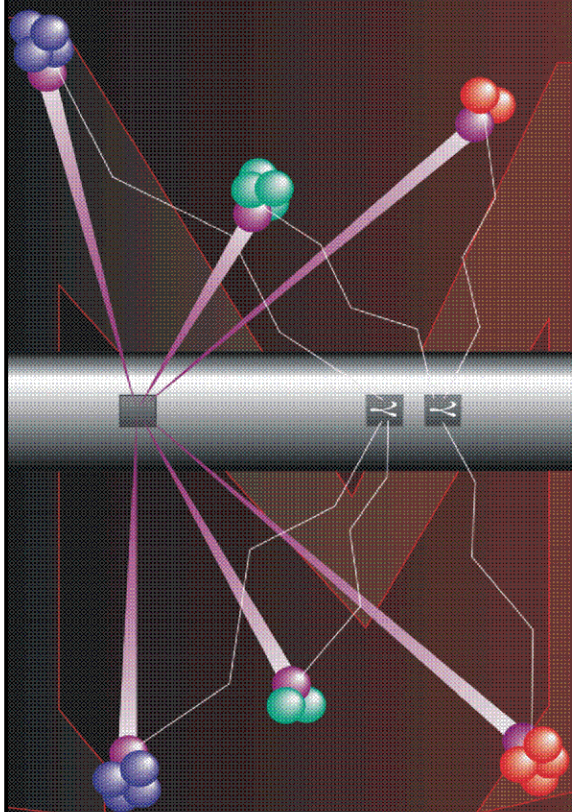




Pulsed Neutron Formation Evaluation



RESERVOIR PERFORMANCE MONITOR GASVIEW SATURATION ANALYSIS

COMPANY EXXONMOBIL PRODUCTION COMPANY

WELL FRU 197-33A7

FIELD PICEANCE CREEK

COUNTY RIO BLANCO STATE COLORADO

LOCATION: SHL: 831' FSL & 2364' FEL

SEC 33 TWP 1S RGE 9W

ELEVATIONS:

KB 6417.4 FT DF 6416.4 FT GL 6388 FT

DATE 27-Apr-2010 ECC 3393

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.STARR</u>	DATE: <u>27-APR-2010</u>	
FIELD DATA	LOCATION: <u>VERNAL, UT</u>	ENGINEER: <u>J.OSTLER/576800</u>	DATE: <u>22-APR-2010</u>	
FROM	TO			
<u>6500 FT</u>	<u>12210 FT</u>			

REMARKS

ISS CUTOFF VALUE FOR COAL/WASHOUT IS 750000
POROSITY CUTOFF VALUE FOR GAS SATURATION IS 5 PU

GASVIEW LOG PROCESSED IN FOUR ZONES:

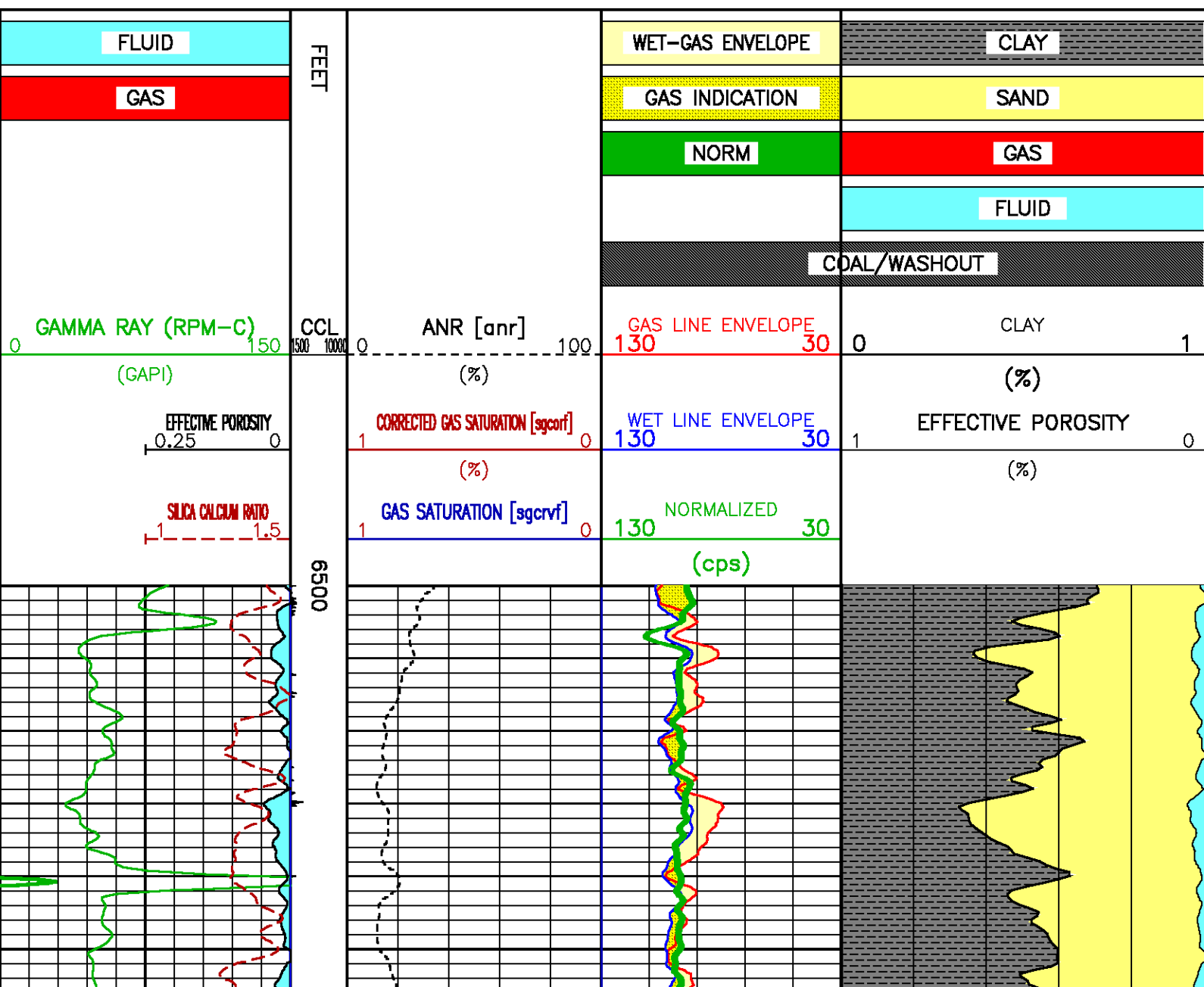
ZONE 1: 6500-7800 FT
ZONE 2: 7800-8590 FT
ZONE 3: 8590-11000 FT
ZONE 4: 11000-12210 FT

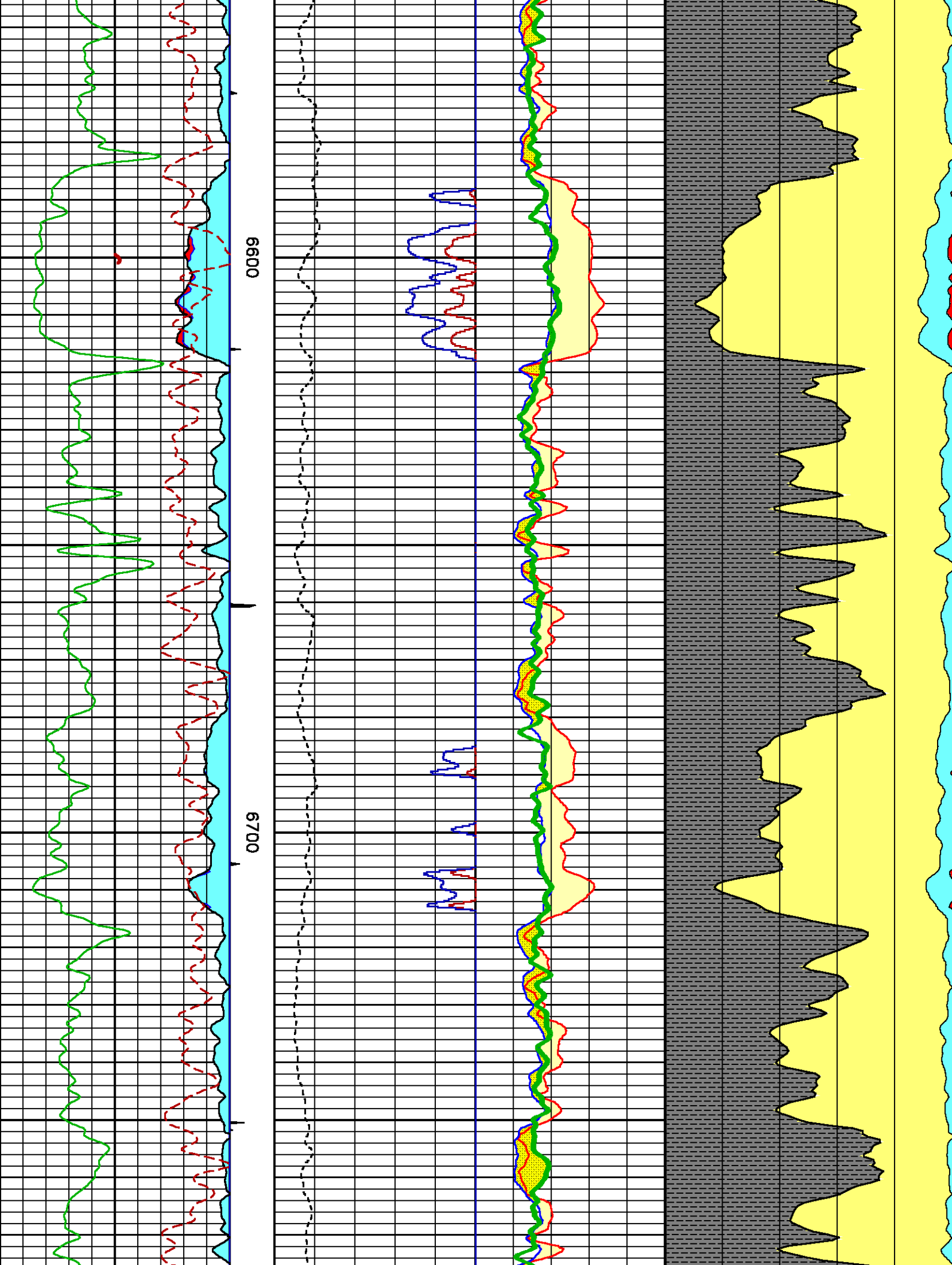
SGCORF = GAS SATURATION WITH GAS CUT CEMENT CORRECTION APPLIED
SGCRVF = GAS SATURATION WITHOUT GAS CUT CEMENT CORRECTION APPLIED

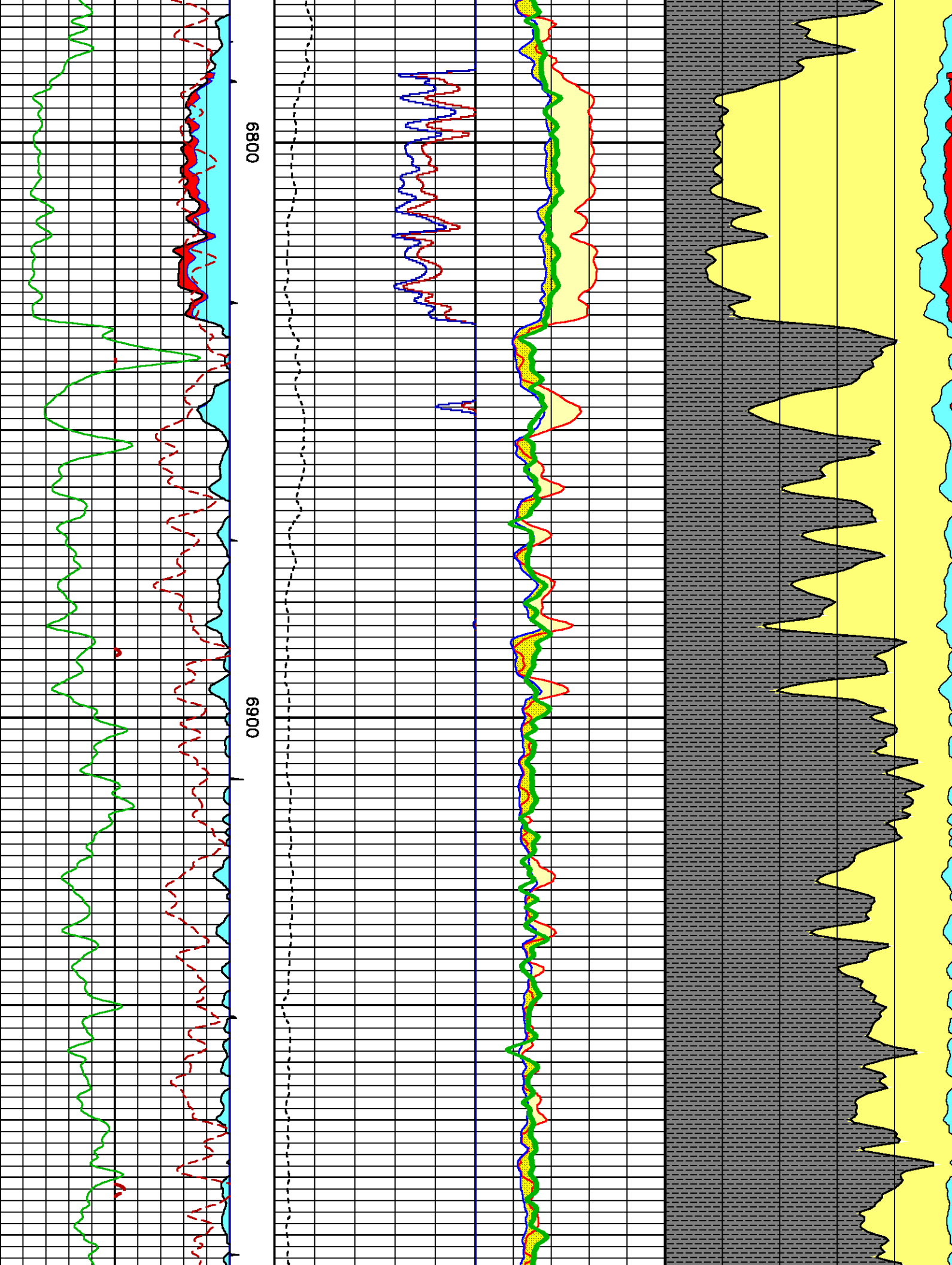
BAKER ATLAS PRELIMINARY GASVIEW SATURATION ANALYSIS

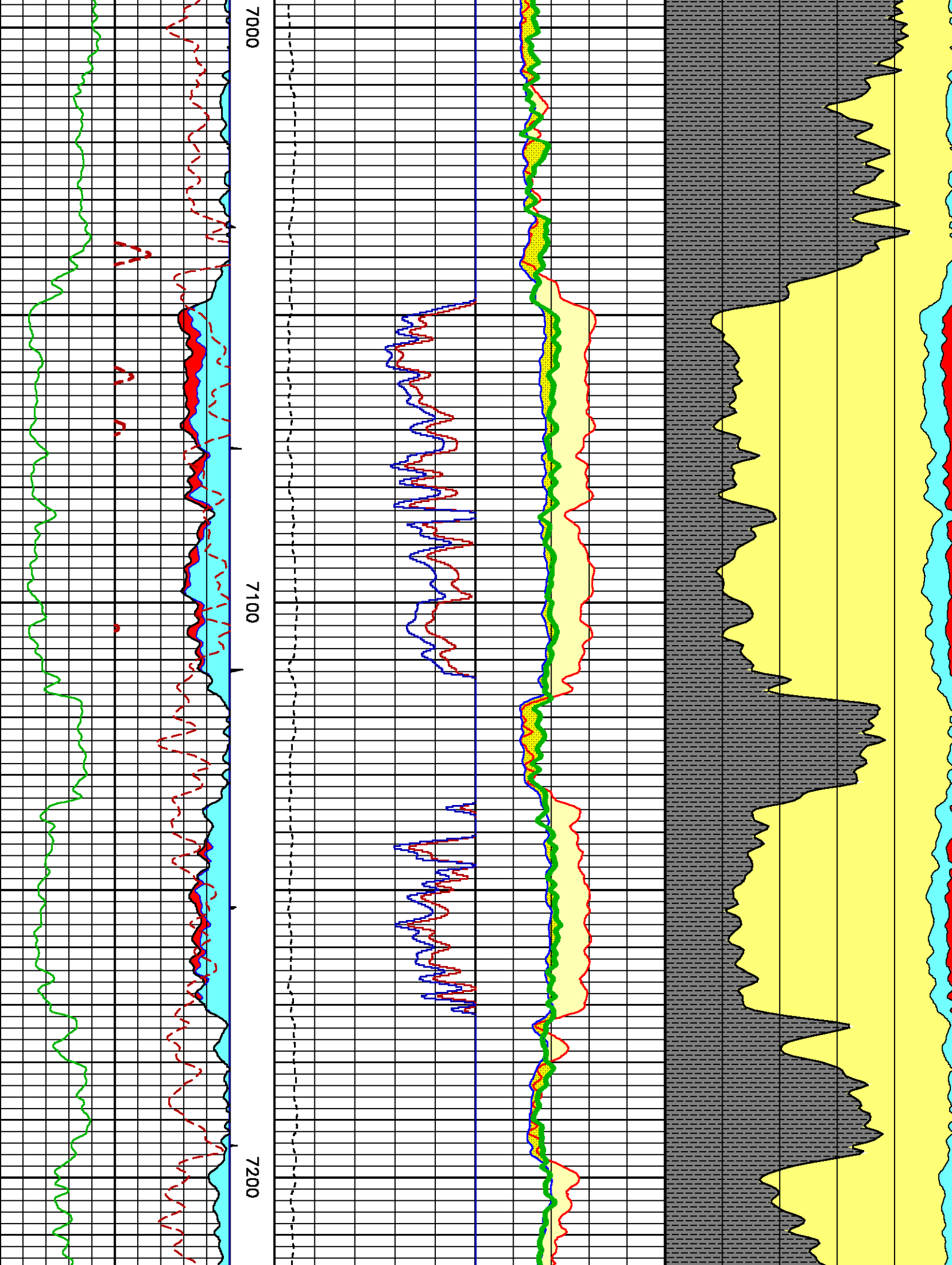
Project : /export/home/starmela/3393_EXXON_FRU_197_33A7
 User : starmela
 Presentation : densrv01:/export/home/starmela/3393_EXXON_FRU_197_33A7/pncgas_8_5_new_EXXON_BOND.pdf [5"/100' Scale]
 Plot Interval : 6500 - 12210 Feet

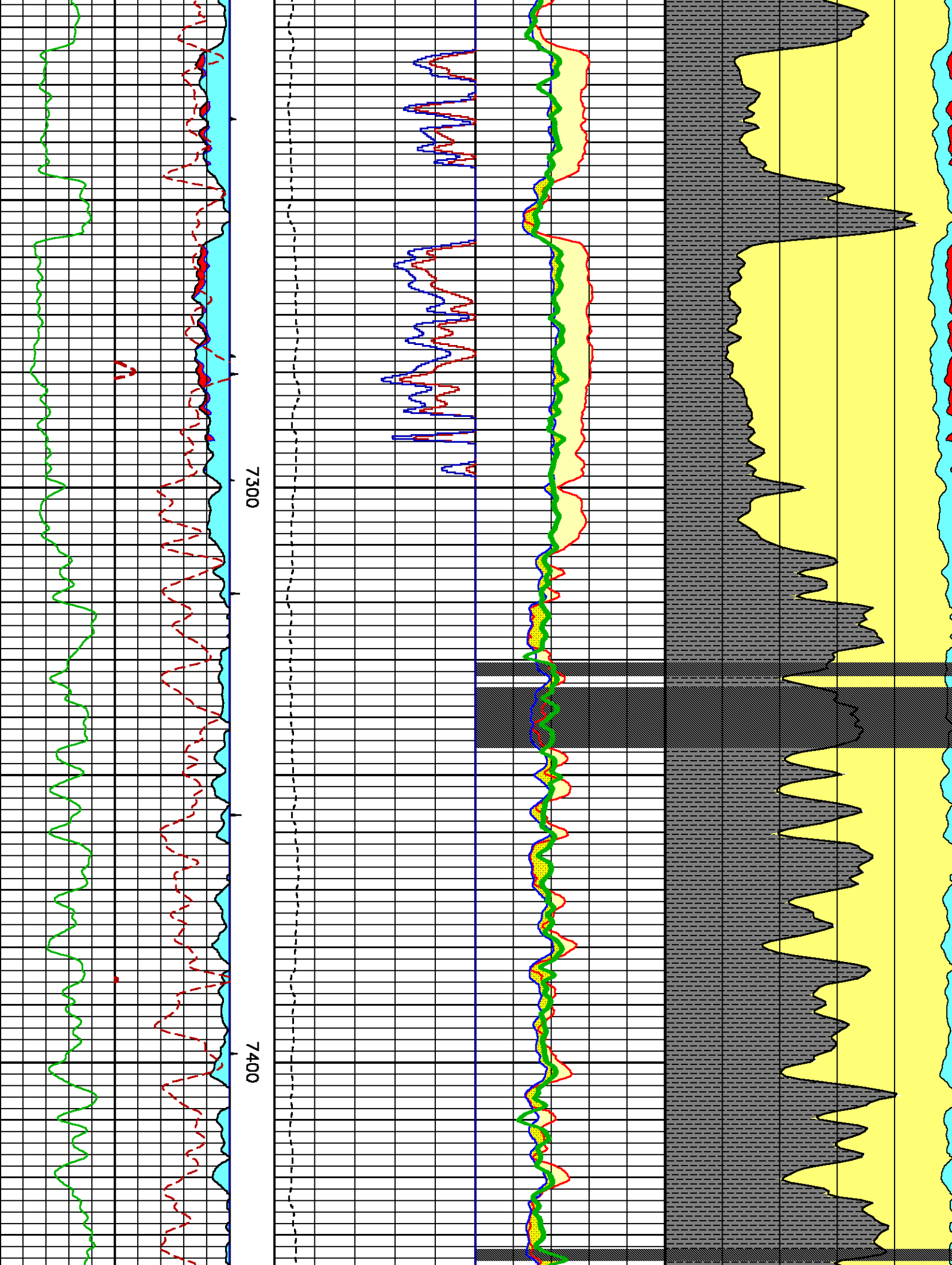
Data File 1 : F1 : densrv01:/export/home/starmela/3393_EXXON_FRU_197_33A7/MAIN_RPM_COR.xtf
 Created On : Apr 22 13:40:17 2010
 Company : EXXONMOBIL PRODUCTION COMPANY
 Well : FRU-197-33A7
 Field : PICEANCE CREEK
 File Interval : 2994 - 12244.5 Feet
 Oct : NA

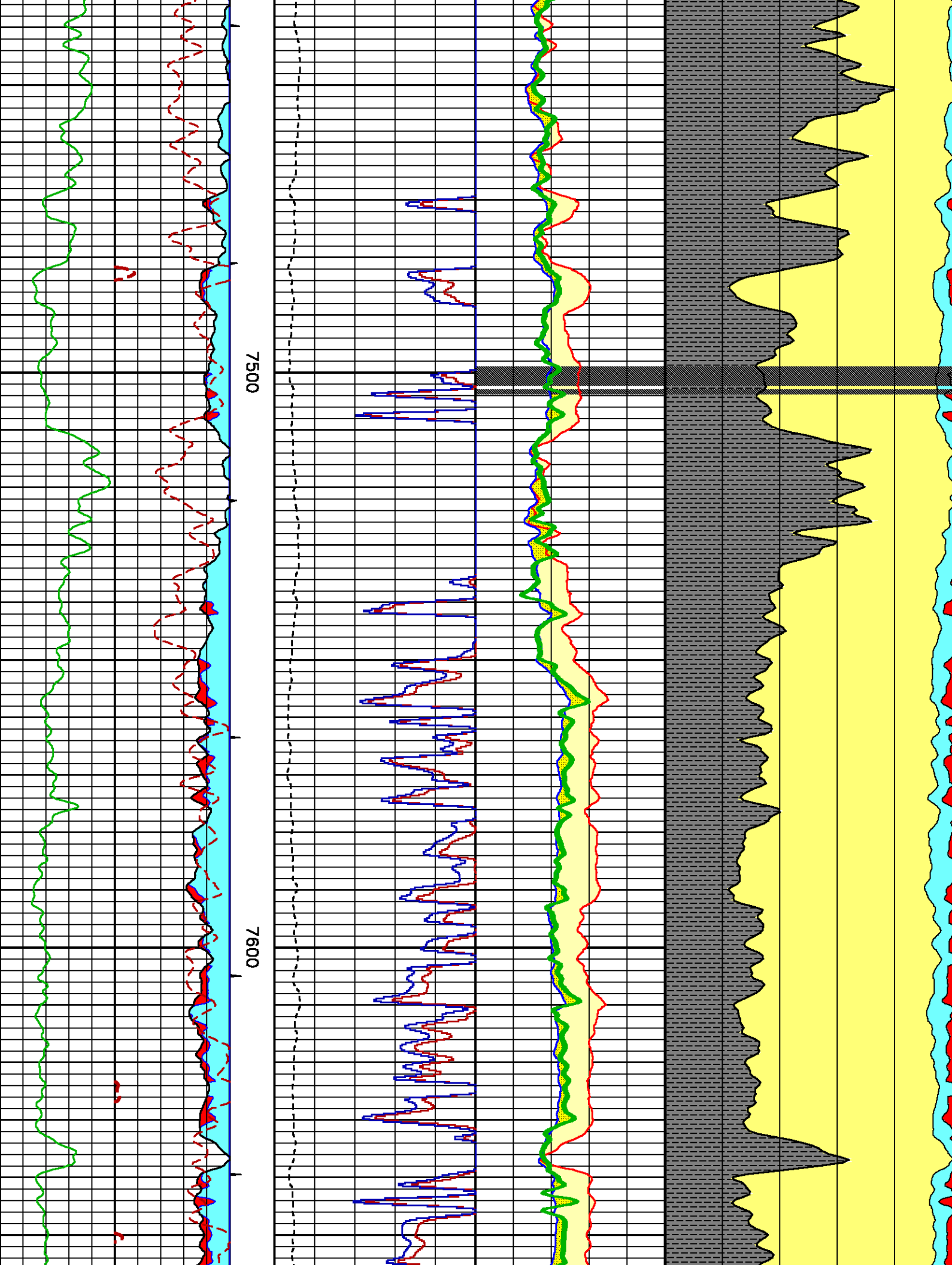


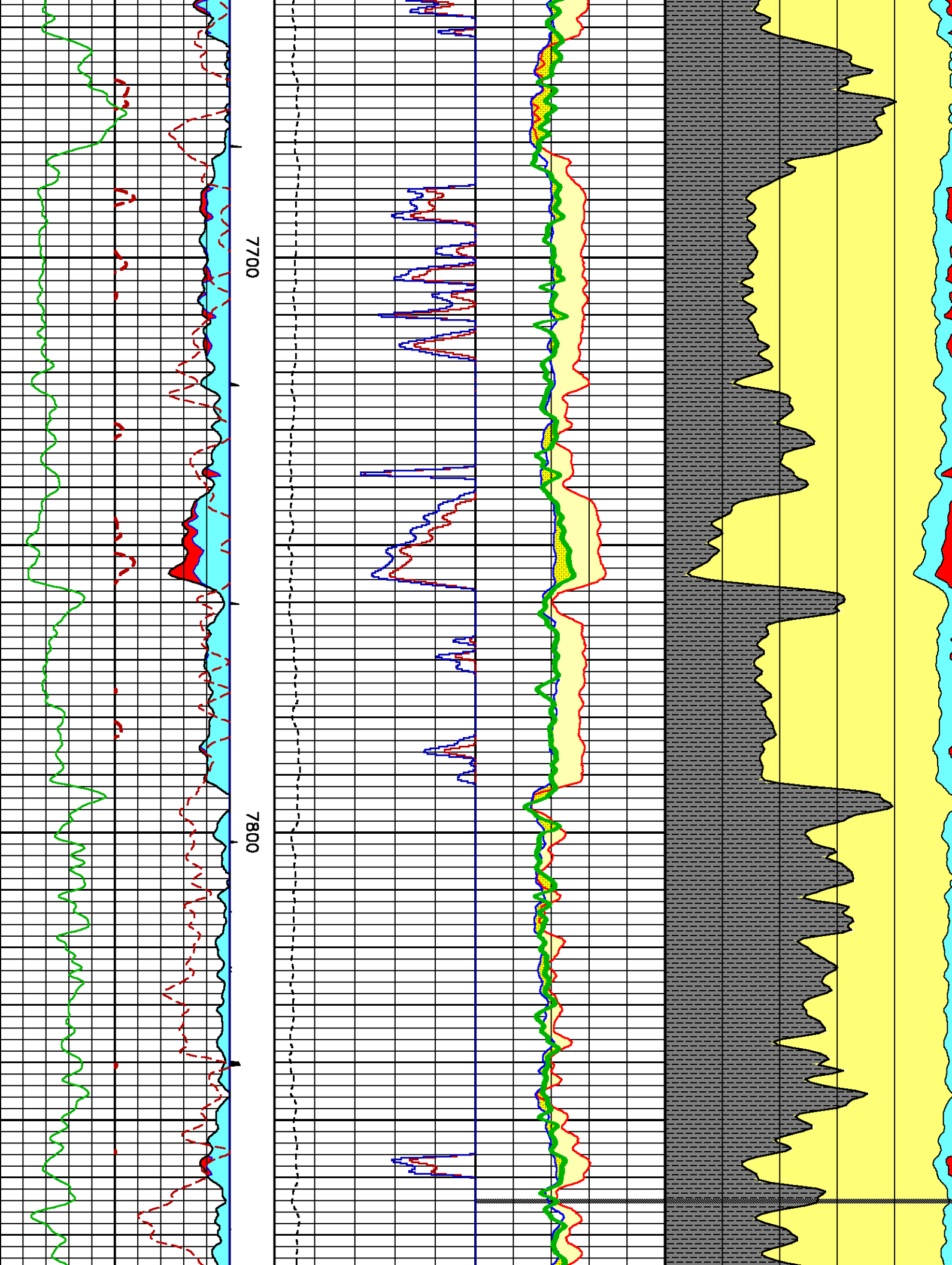


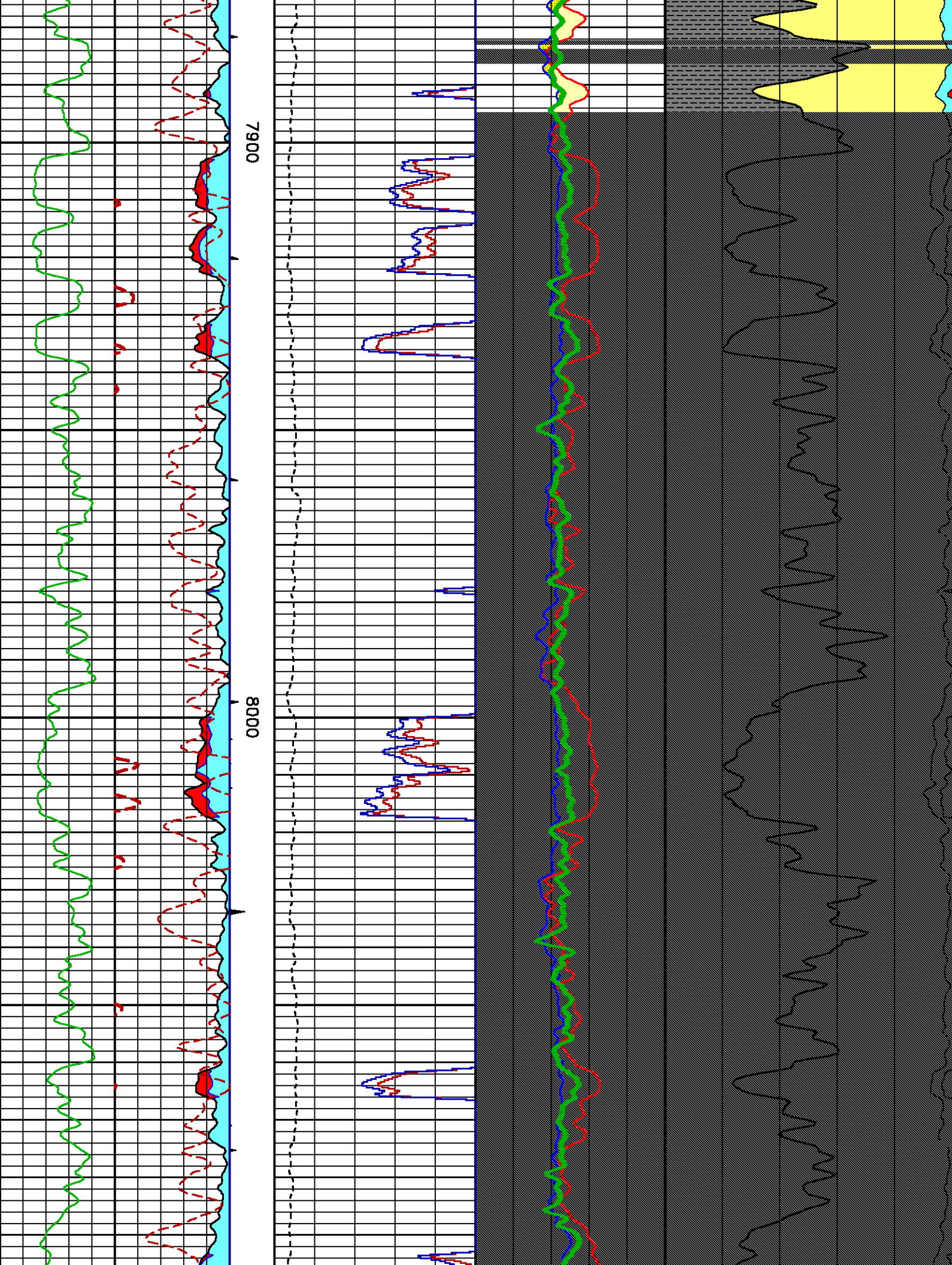


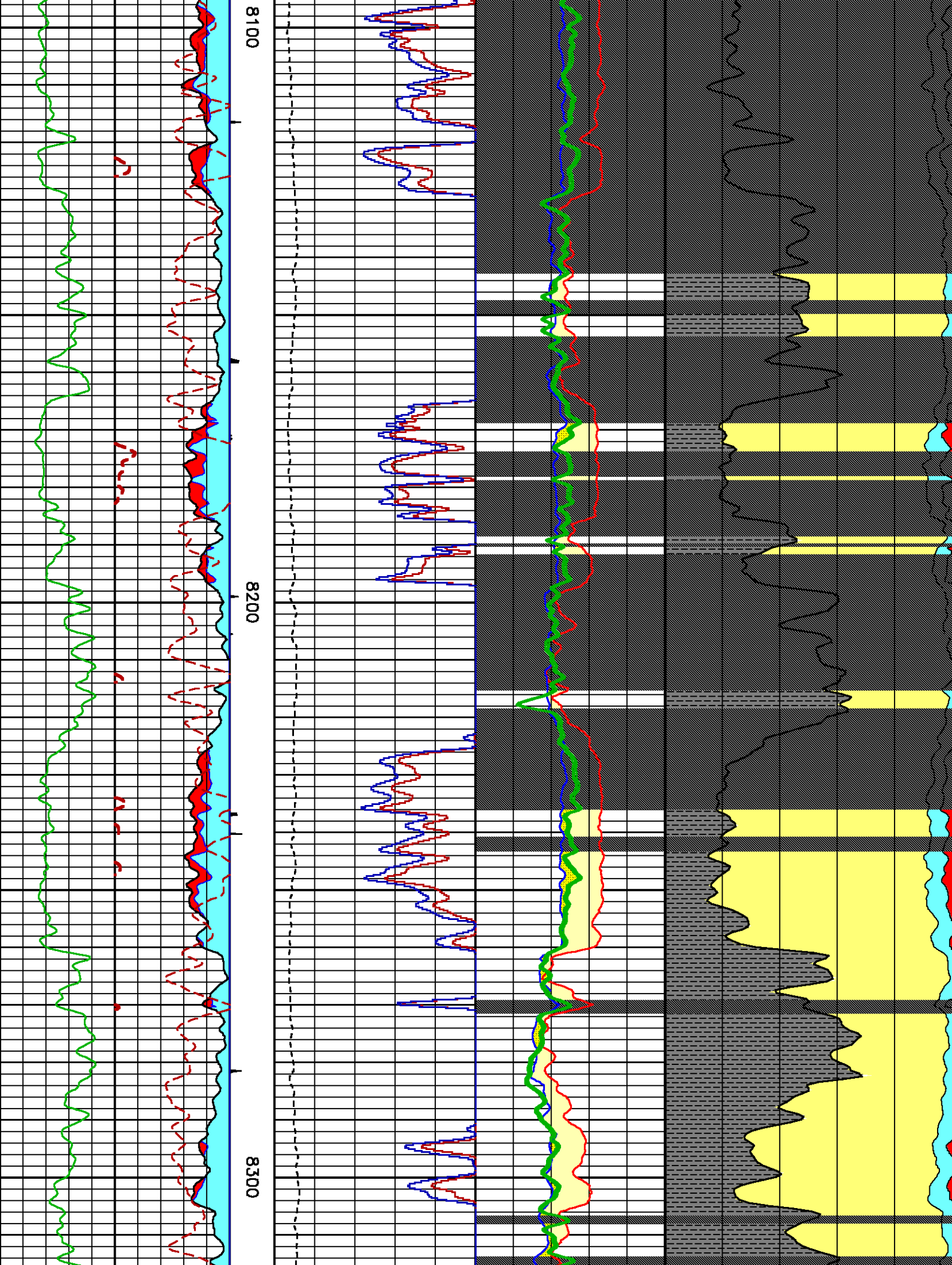


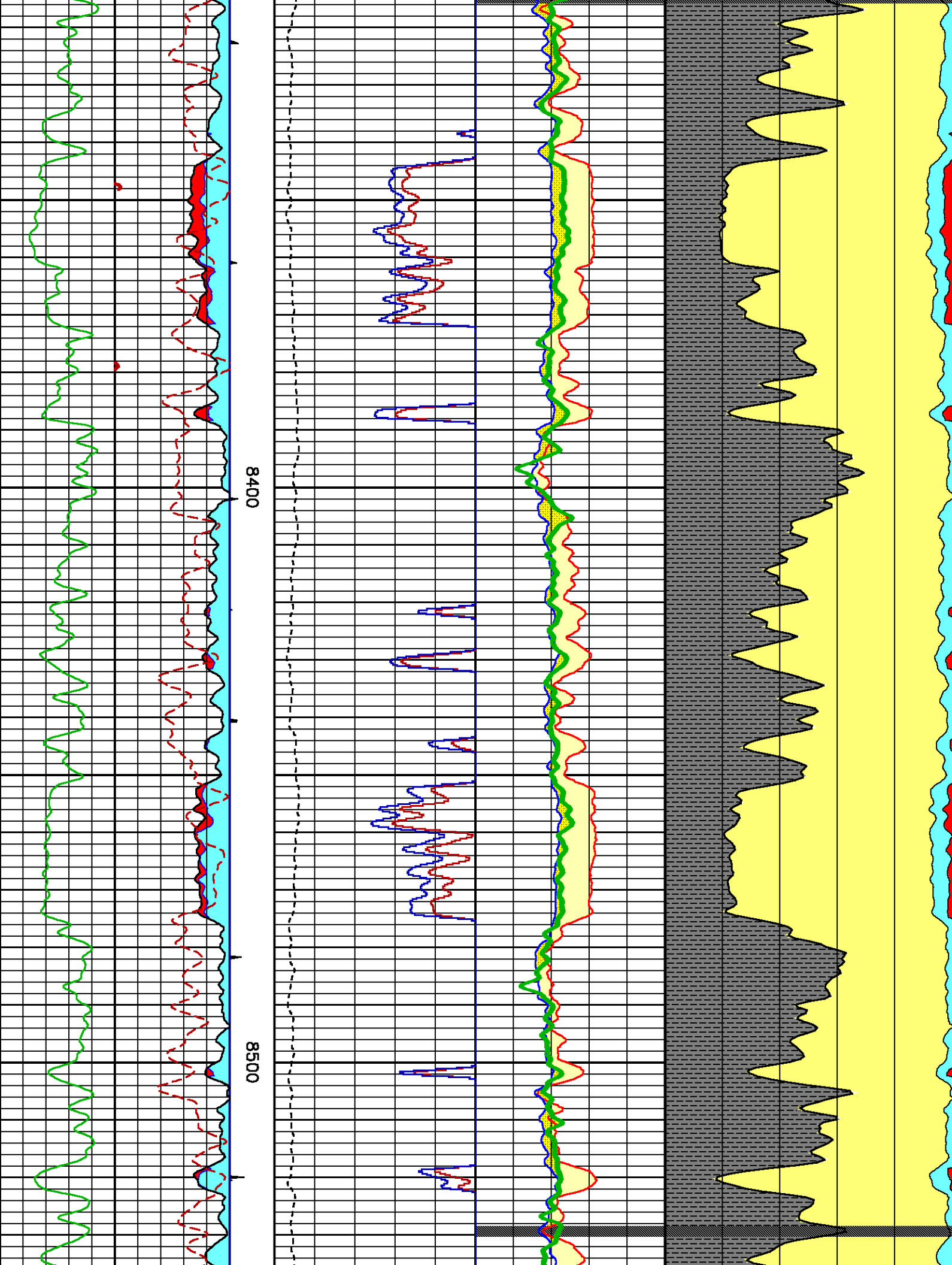


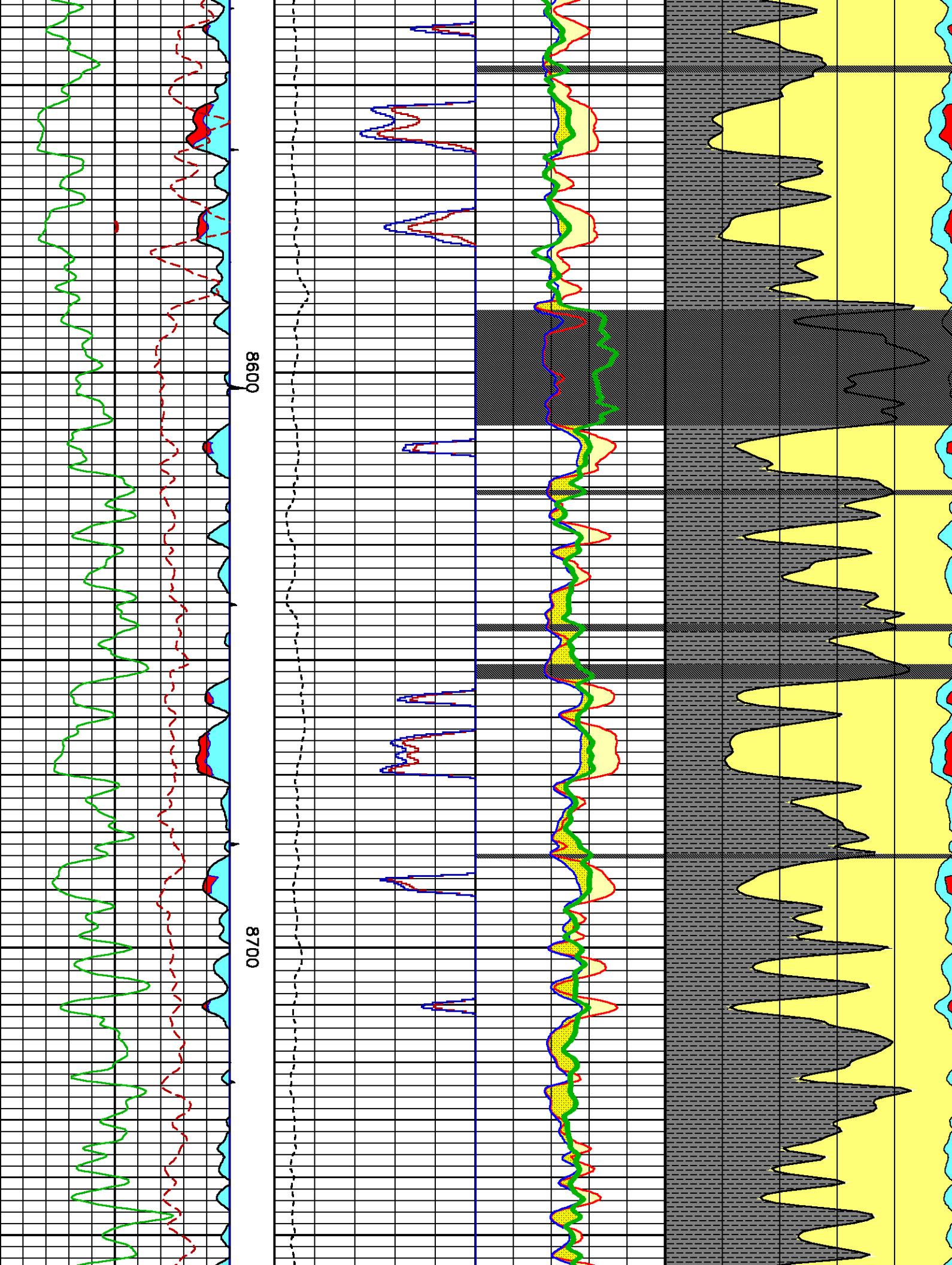


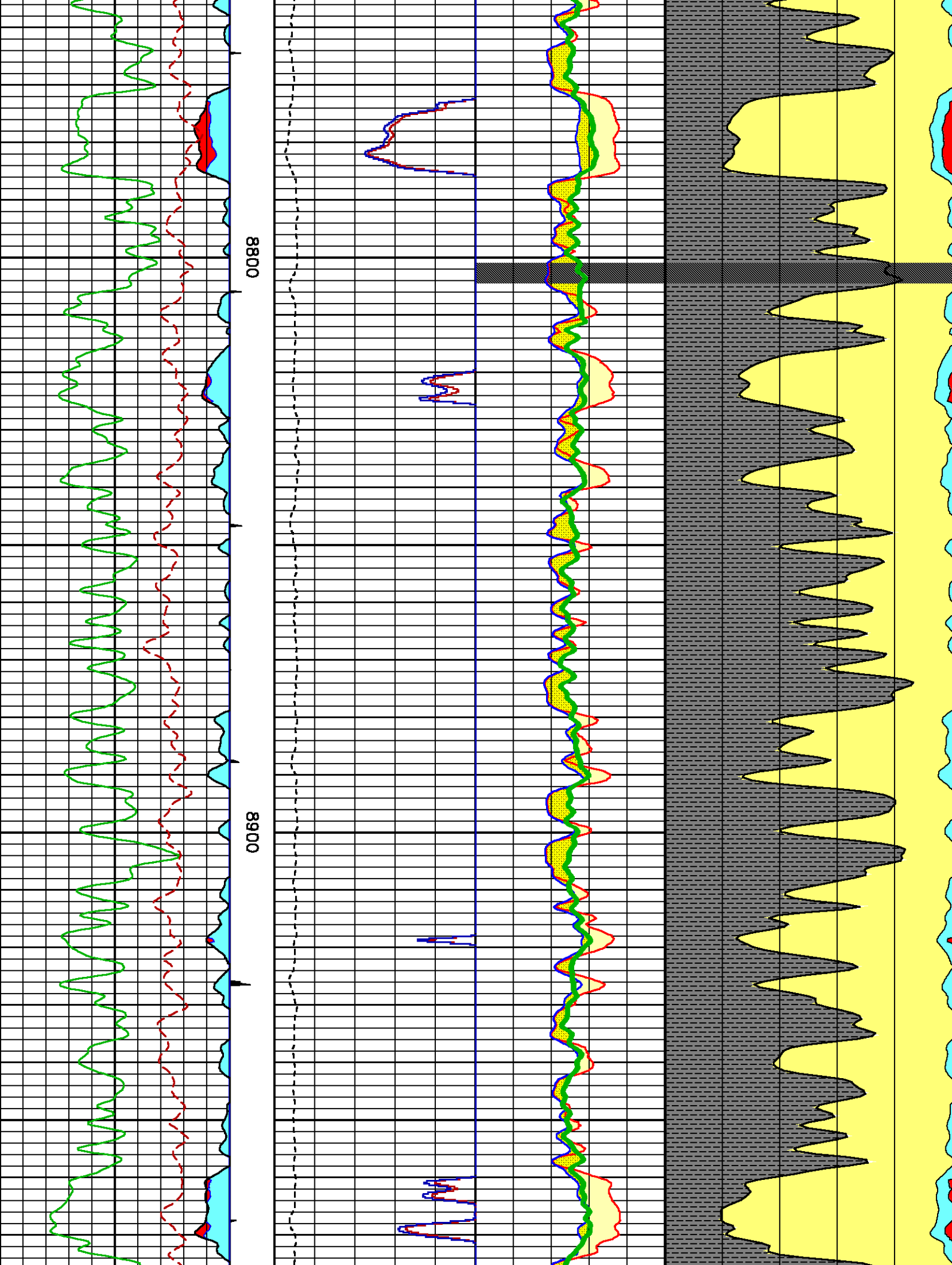


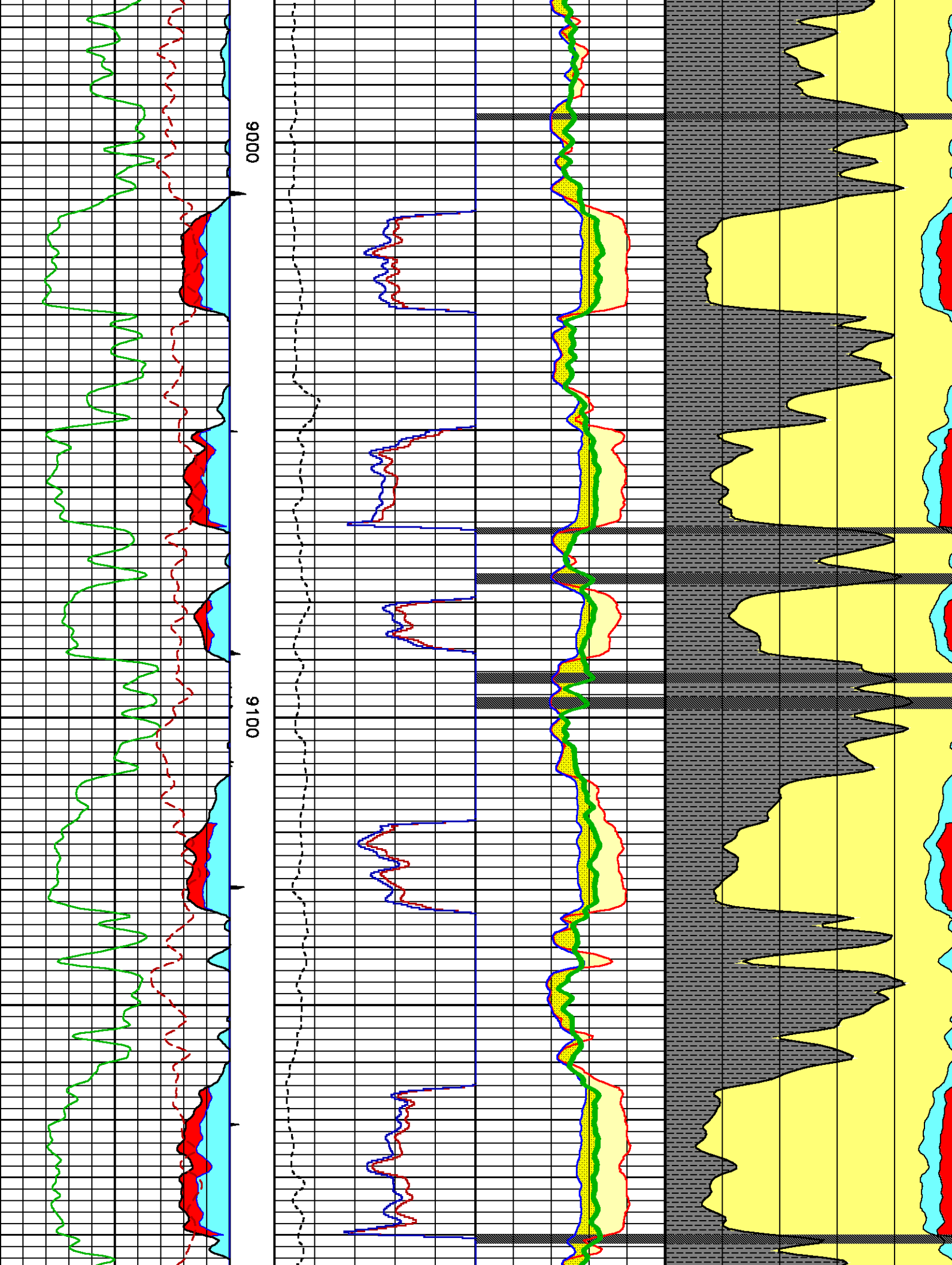


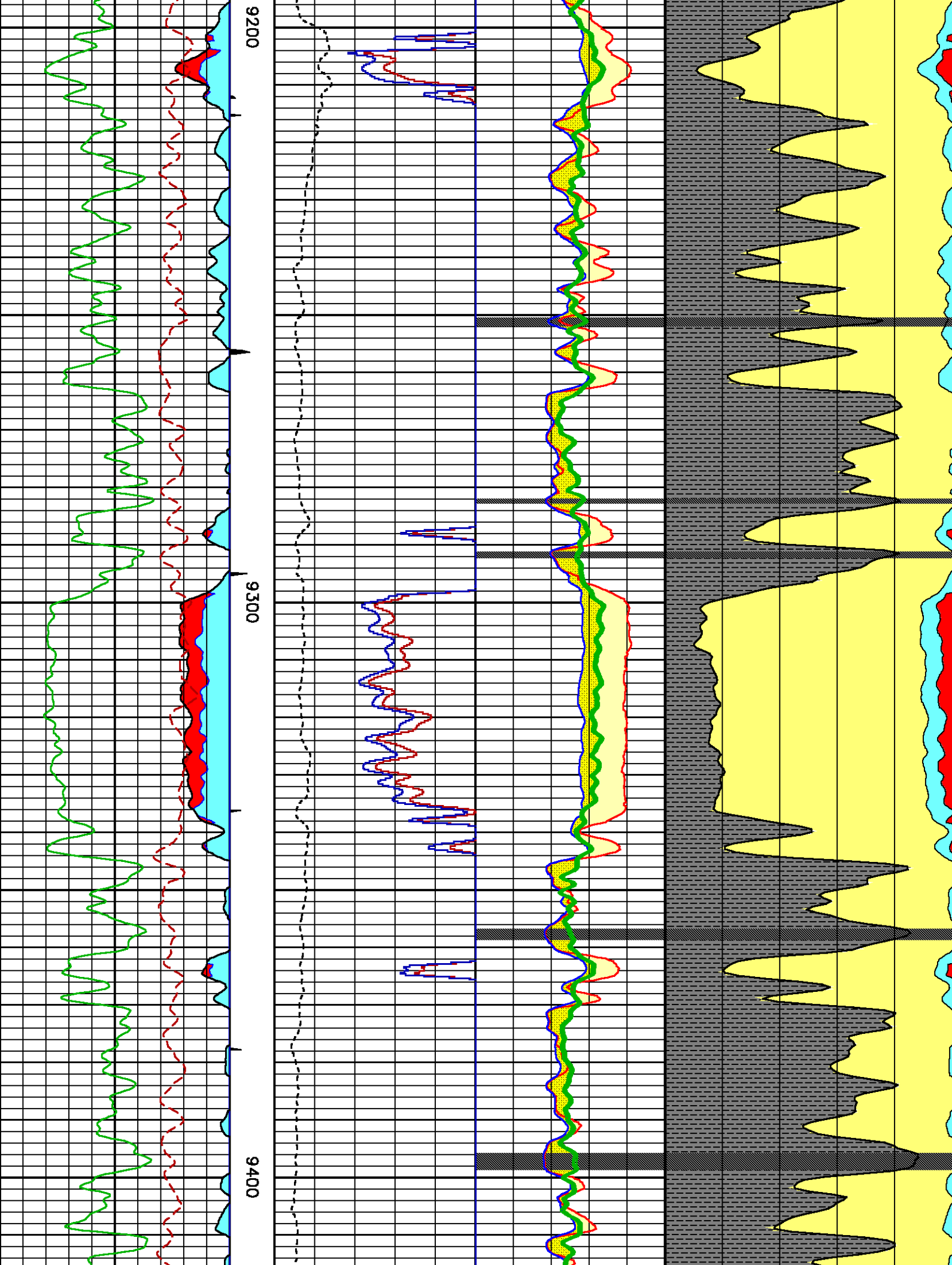


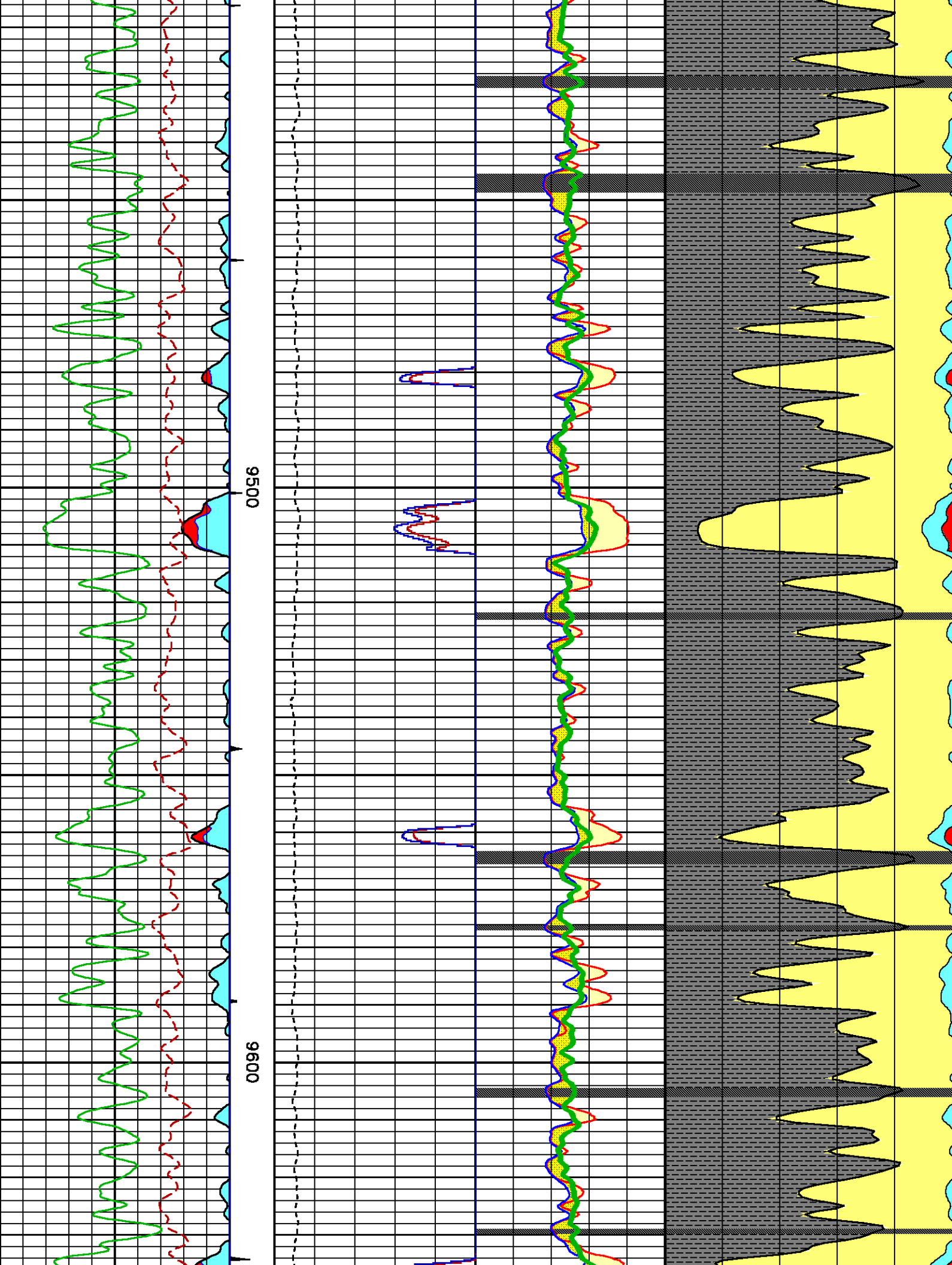


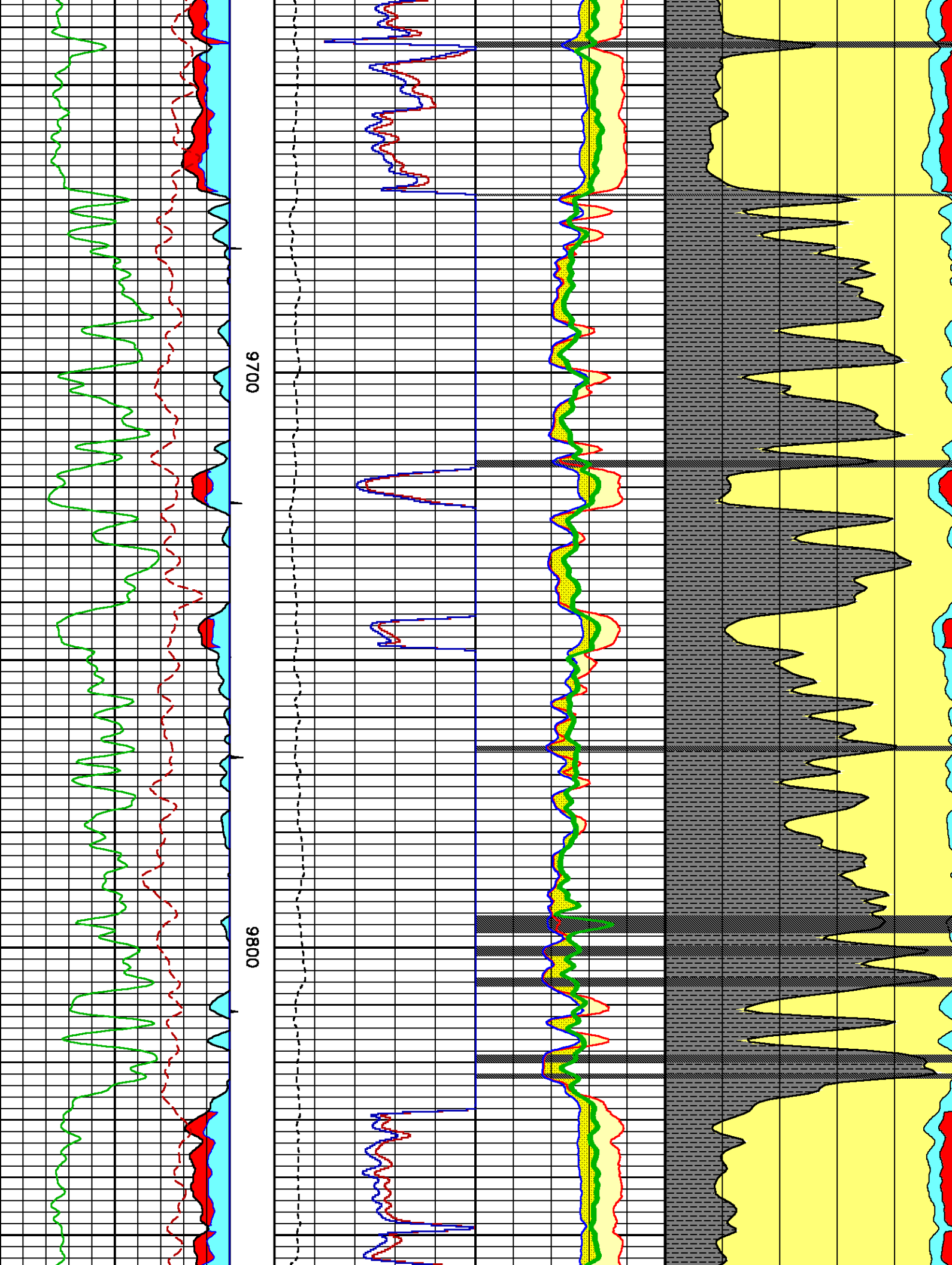


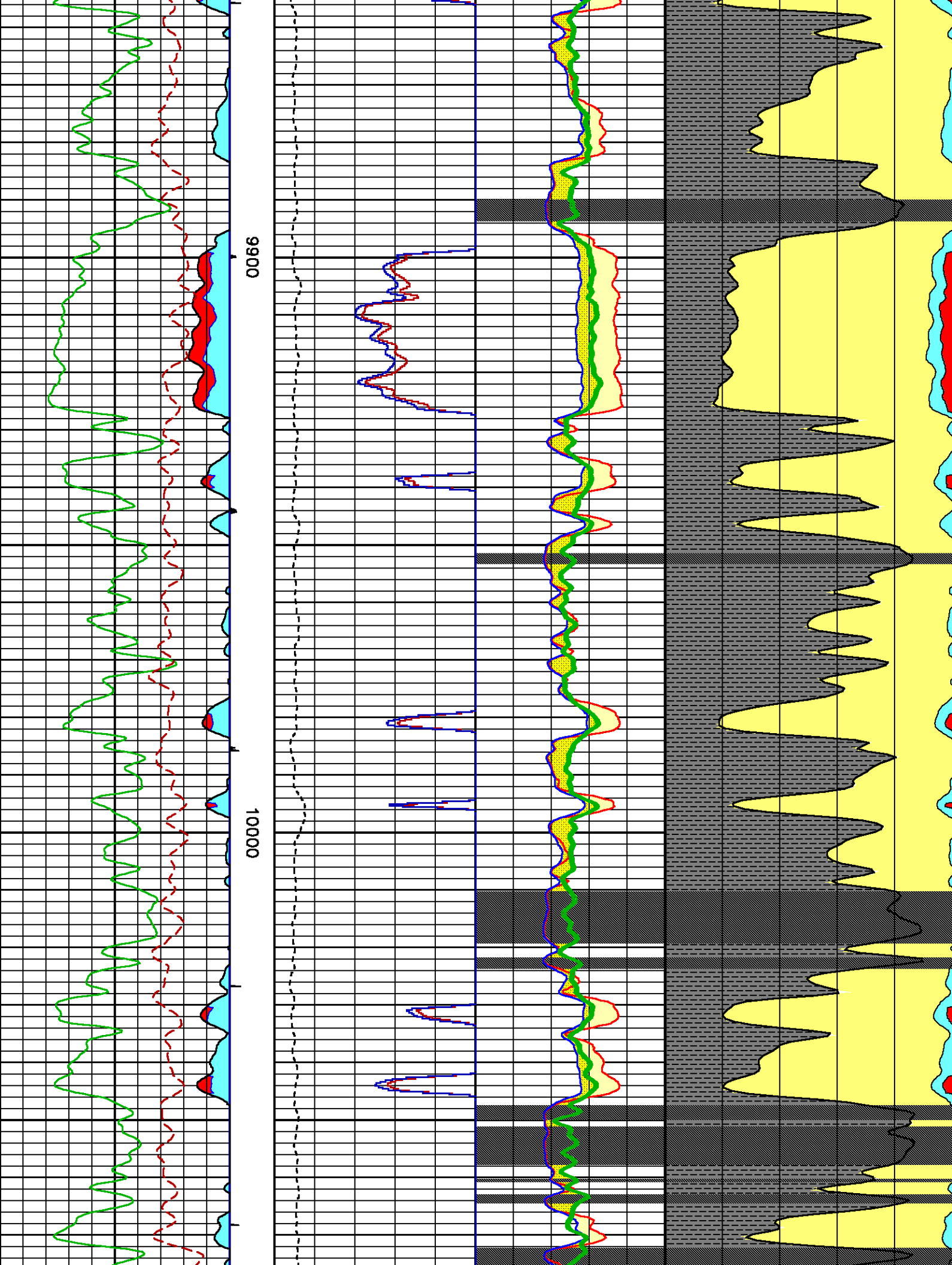


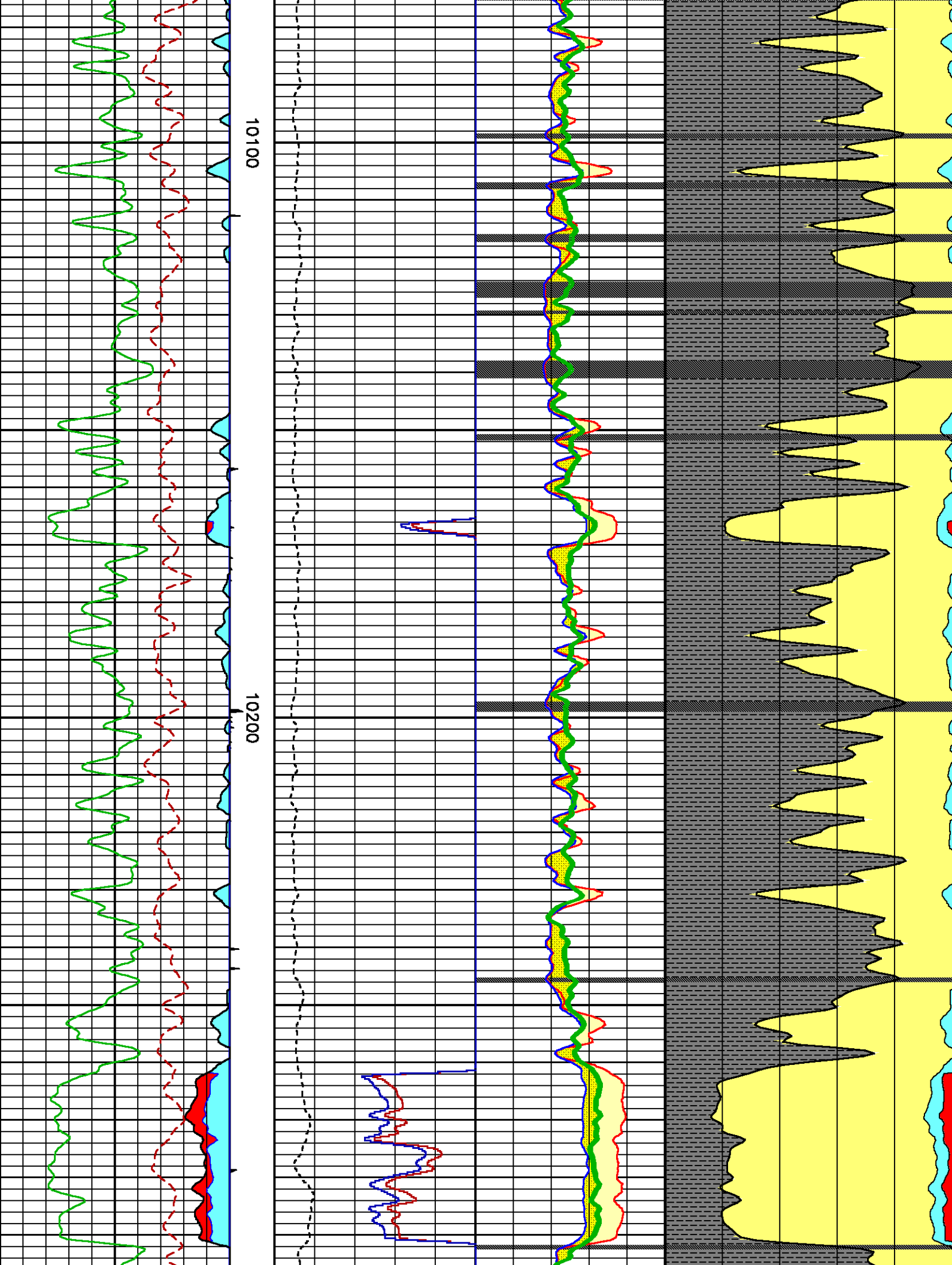


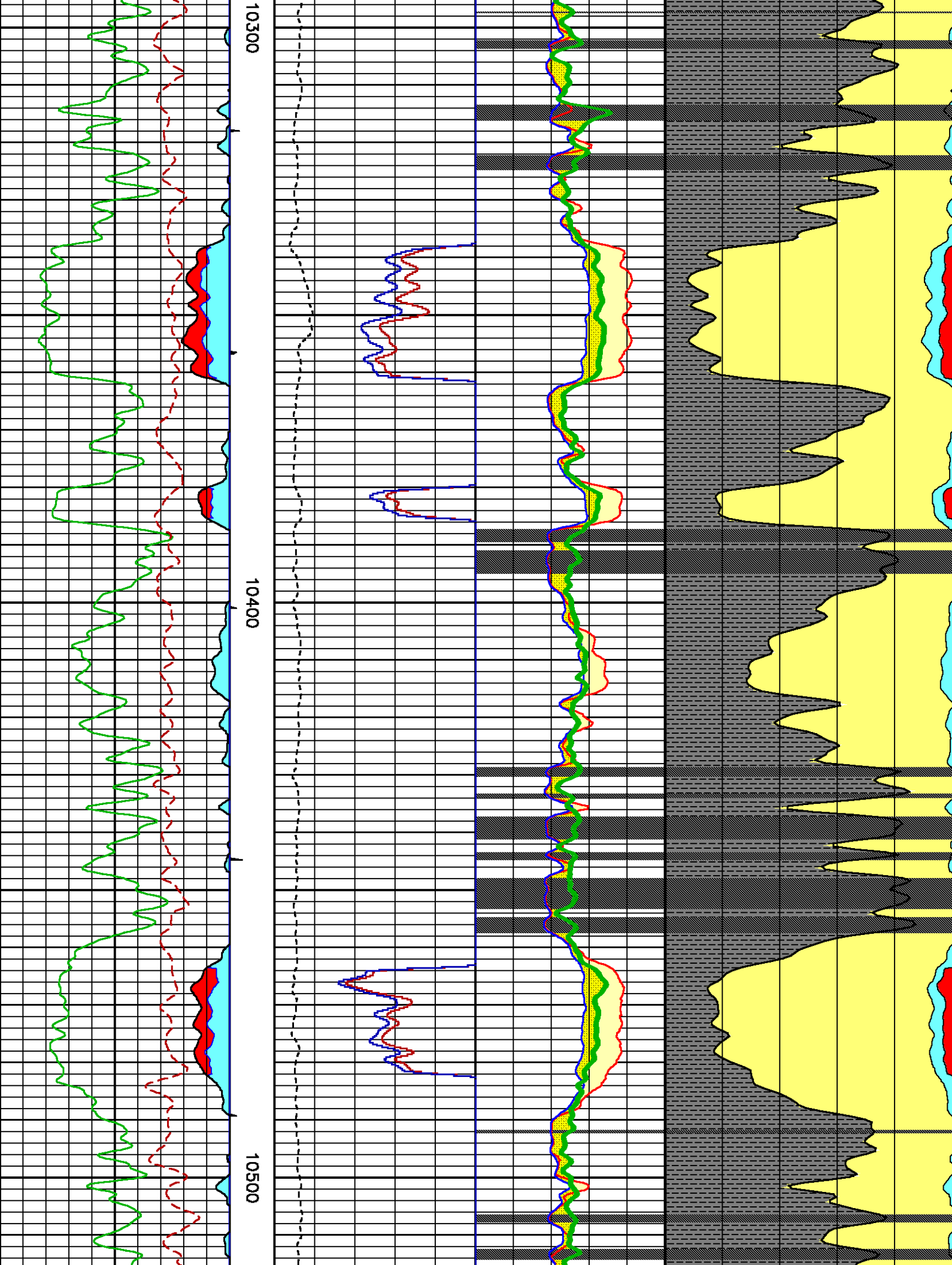


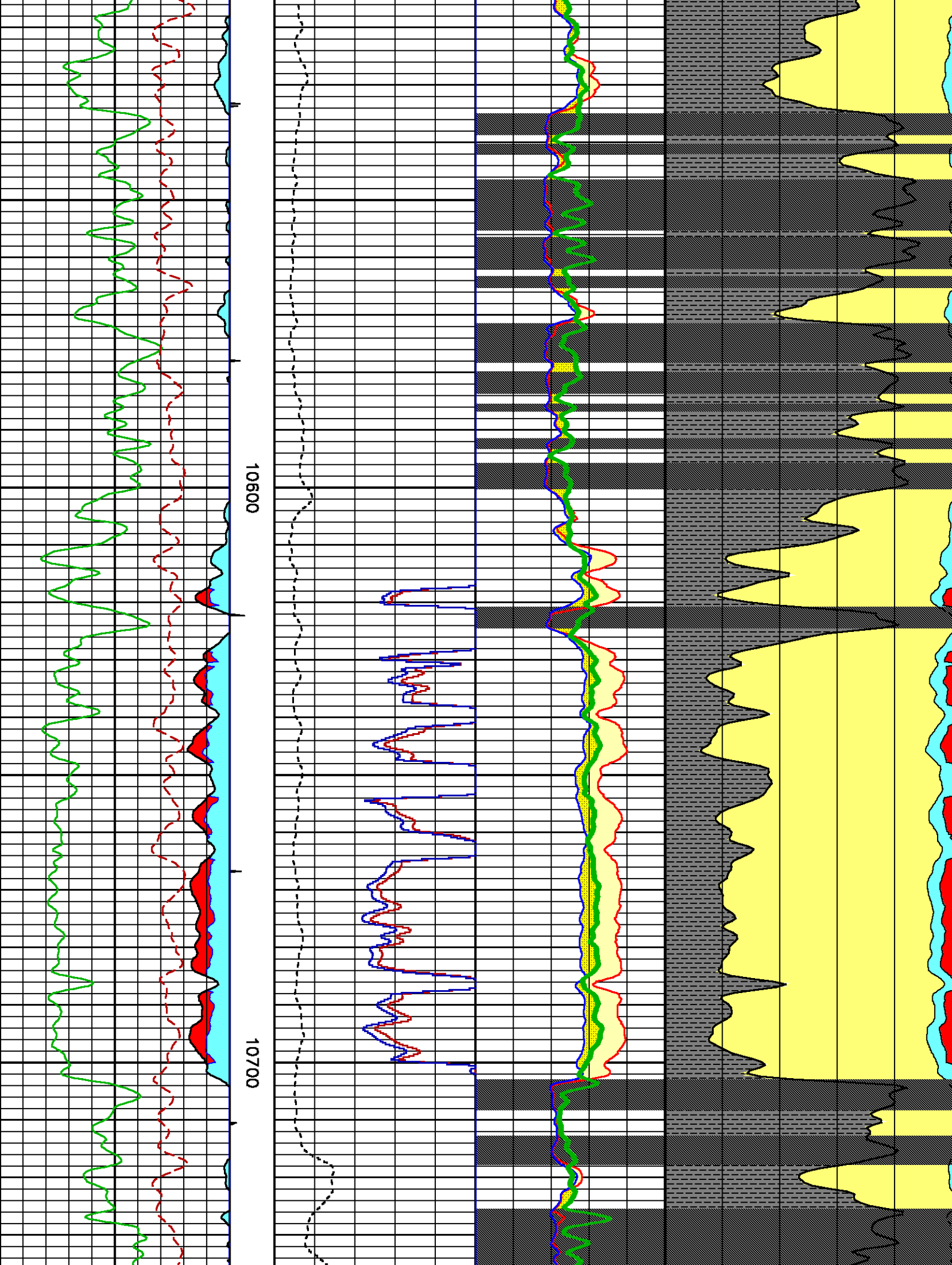


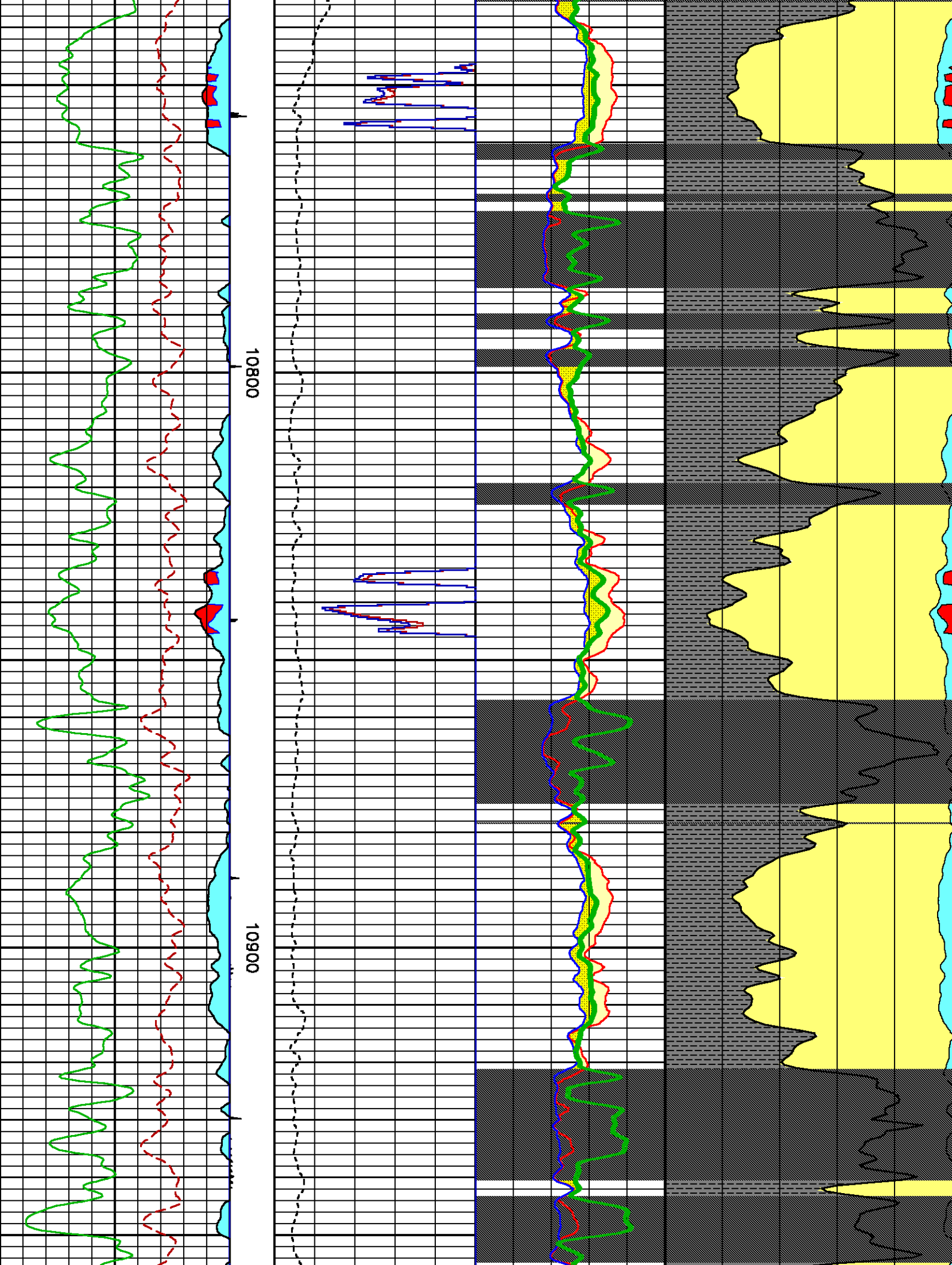


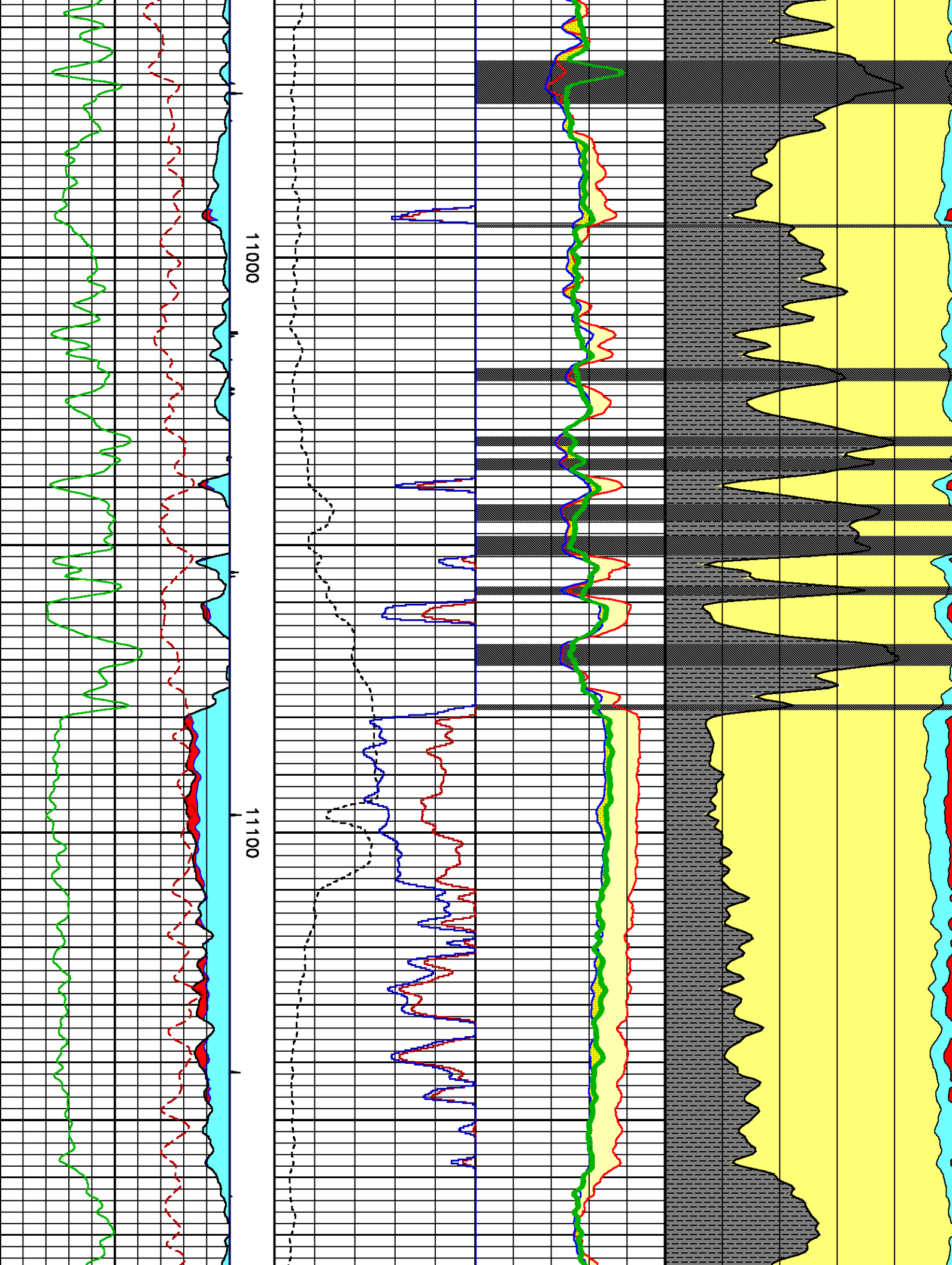


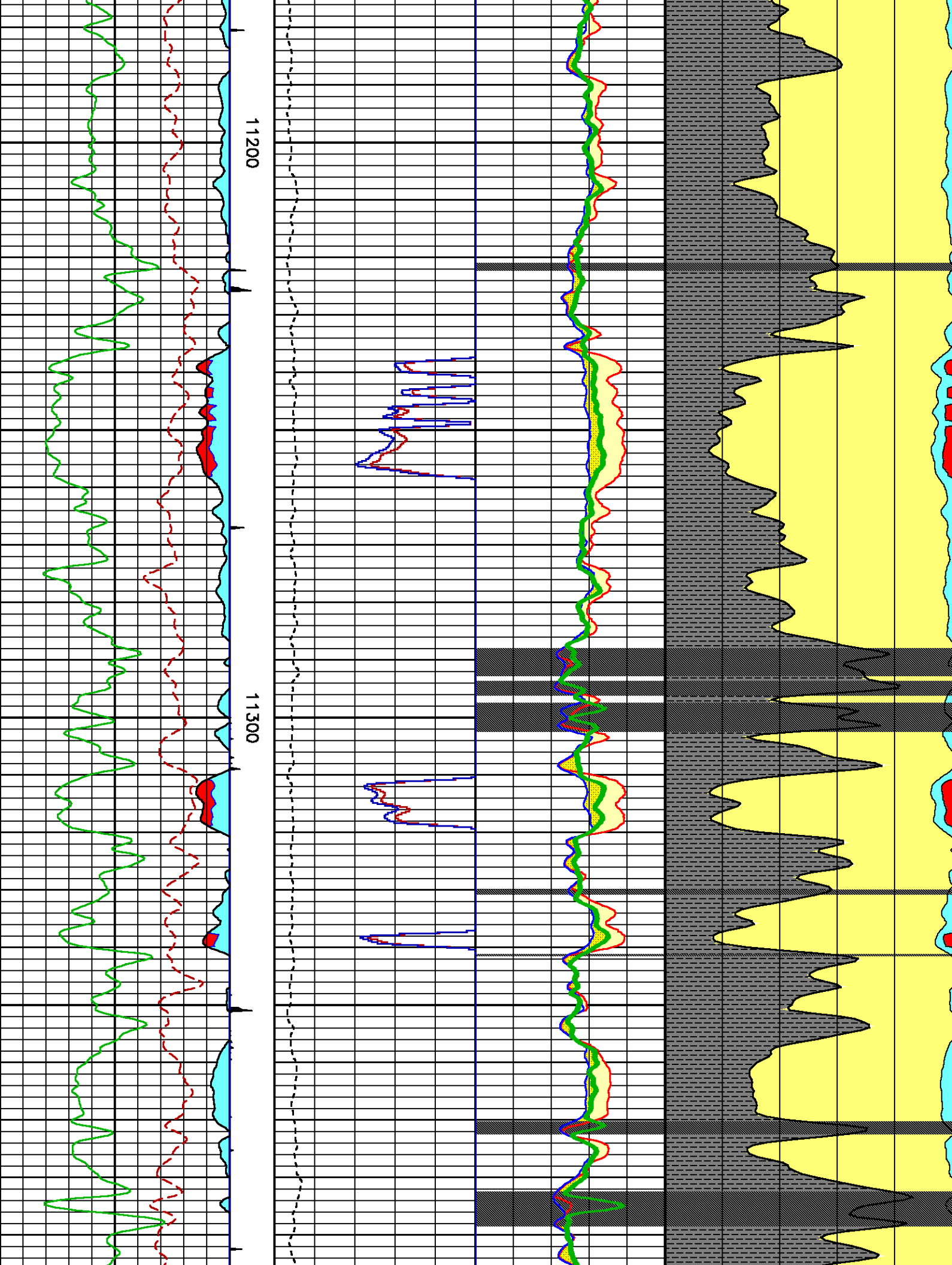


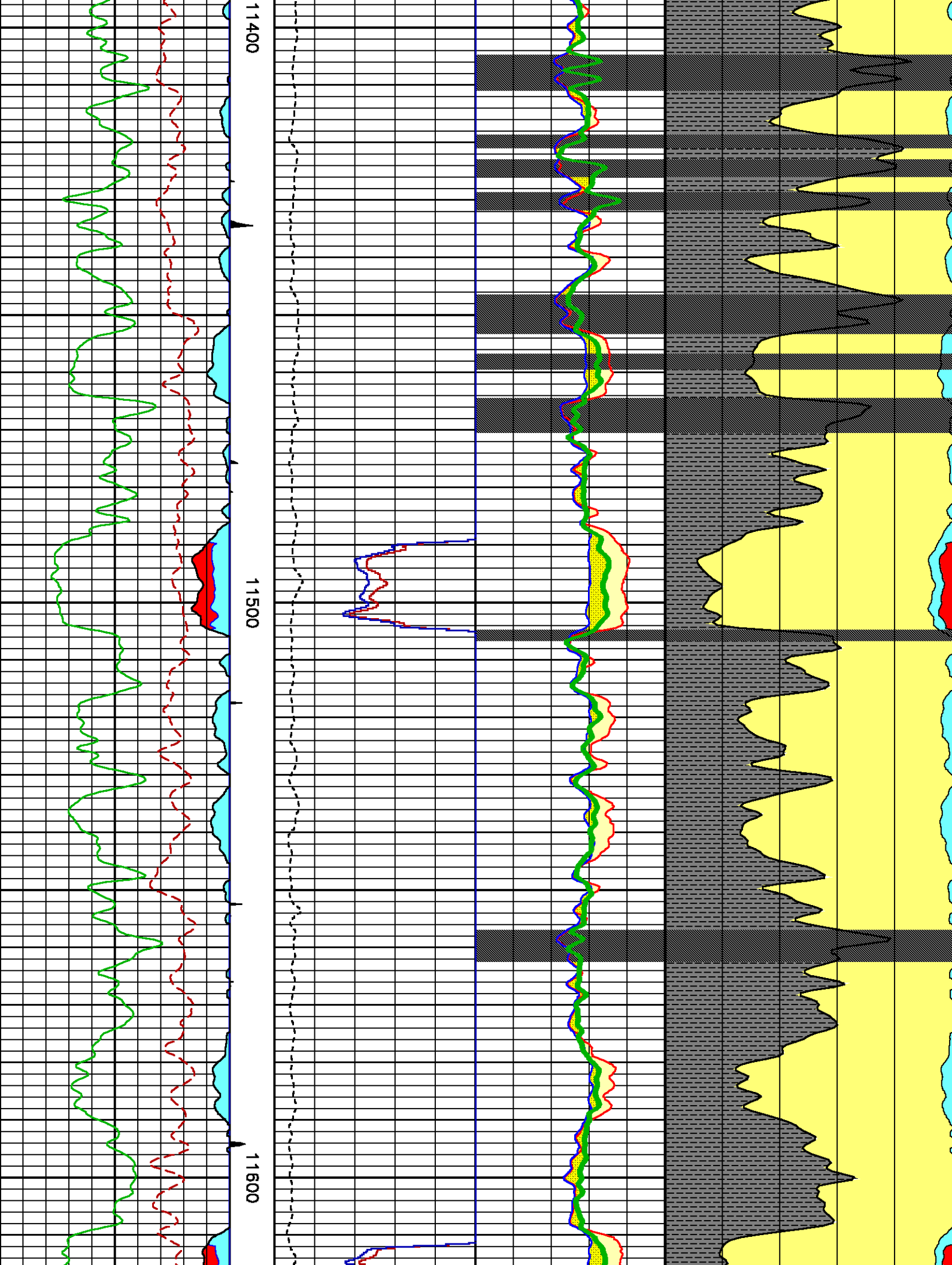


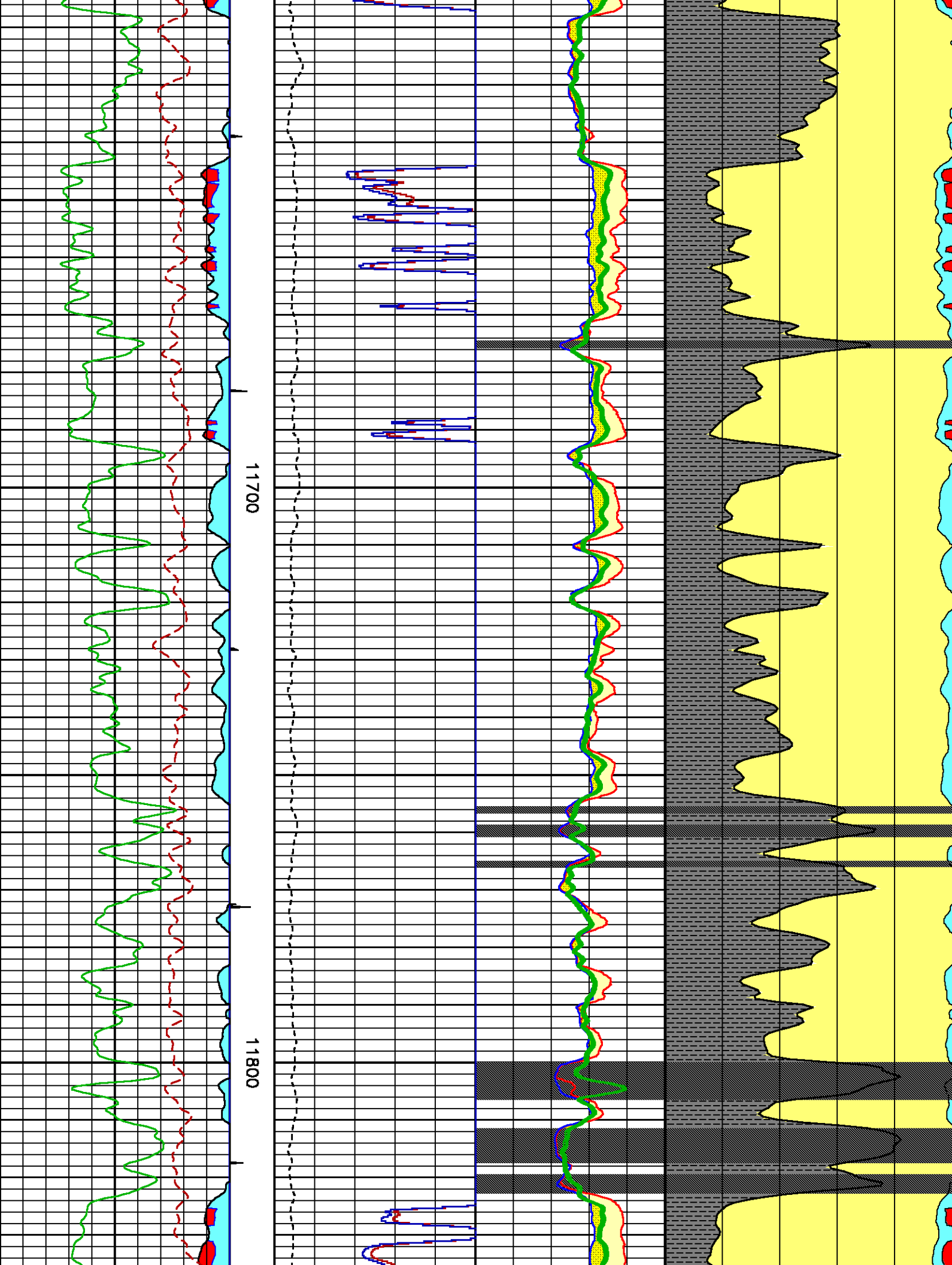


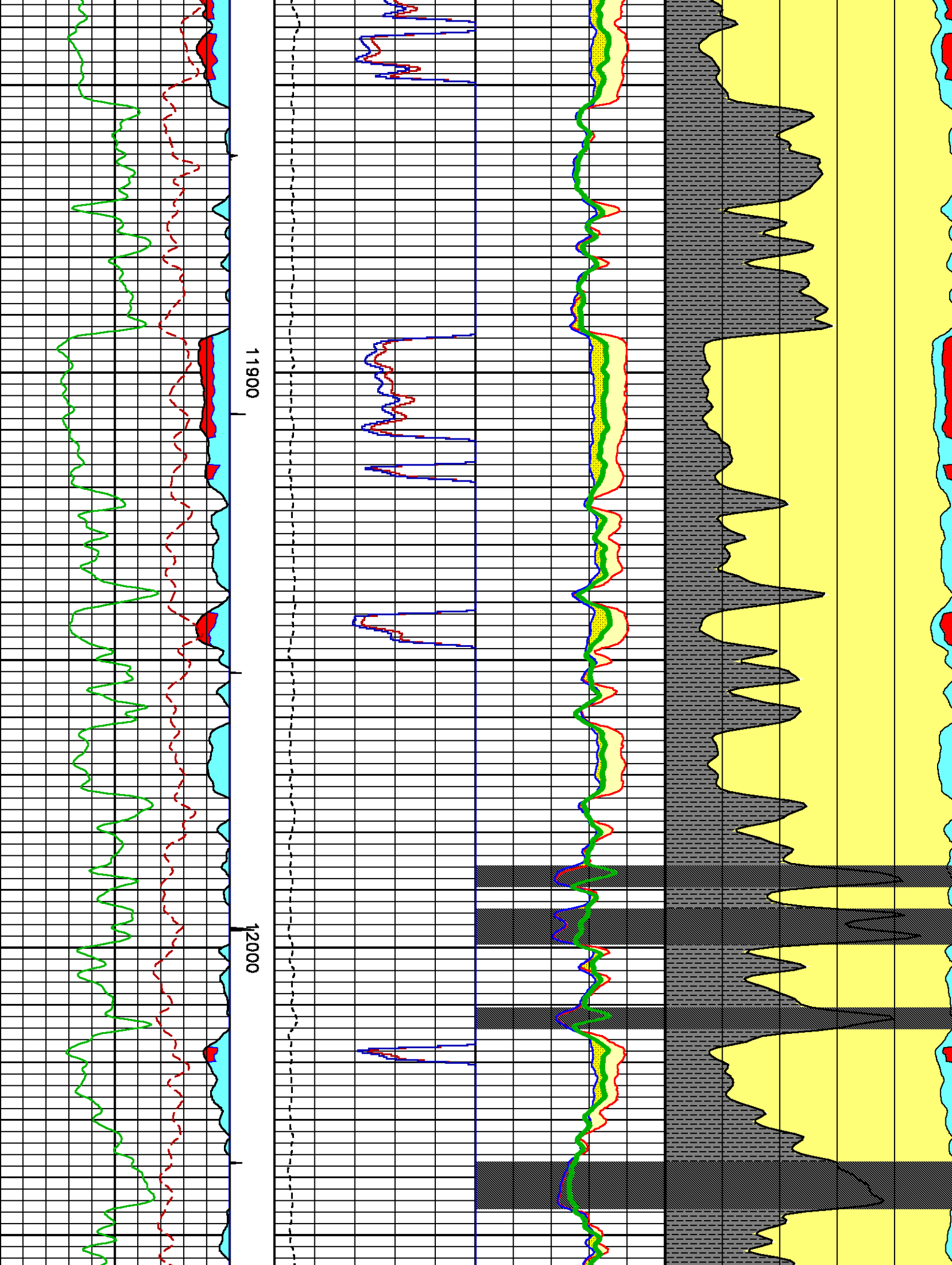


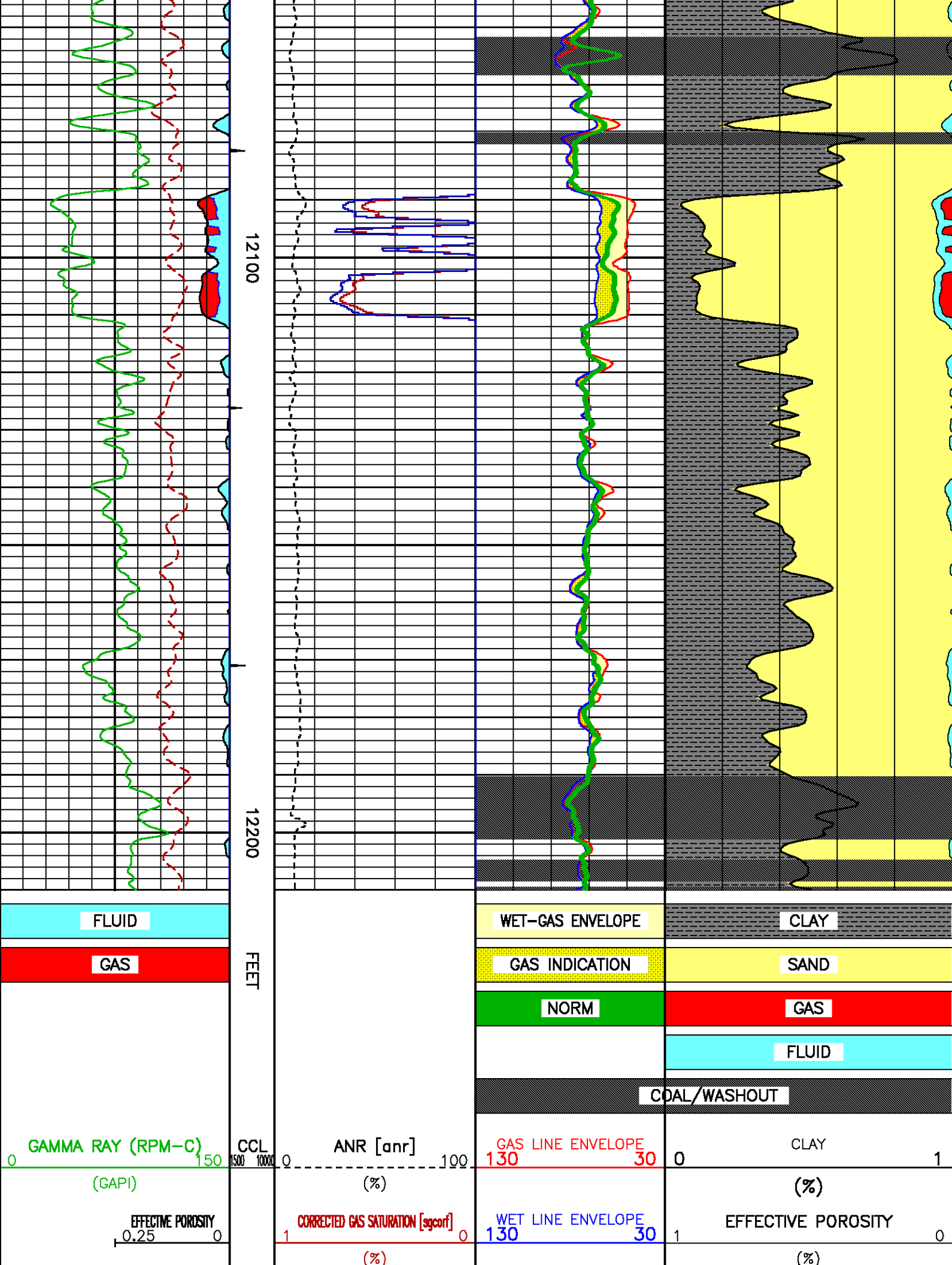








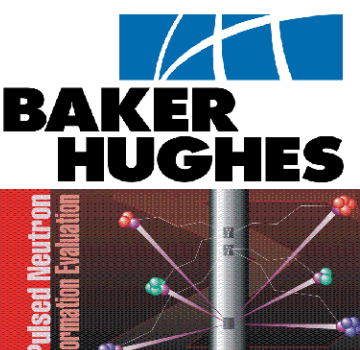




SILICA CALCIUM RATIO
1-----1.5

GAS SATURATION [sgcrvf]
1-----0

NORMALIZED
130-----30
(cps)

	COMPANY <u>EXXONMOBIL PRODUCTION COMPANY</u>		FILE NO: <u>3393</u>
	WELL <u>FRU 197-33A7</u>		API NO: <u>05-103-11399-0000</u>
	FIELD <u>PICEANCE CREEK</u>		
	COUNTY <u>RIO BLANCO</u>	STATE <u>COLORADO</u>	
LOCATION: <u>SHL: 831' FSL & 2364' FEL</u>		ELEVATIONS: KB <u>6417.4 FT</u> DF <u>6416.4 FT</u> GL <u>6388 FT</u>	FS0: <u>576800</u> VERNAL, UT J.OSTLER
SEC <u>33</u> TWP <u>1S</u> RGE <u>97W</u>		DATE <u>27-Apr-2010</u>	