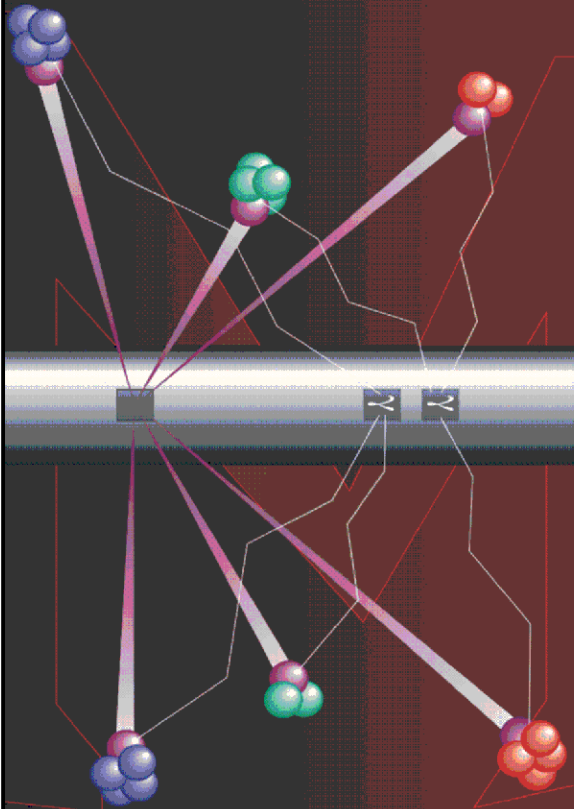


# Pulsed Neutron Formation Evaluation



## RESERVOIR PERFORMANCE MONITOR NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY LLC

WELL GUNDERSON 0994-13-16W

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS

SEC 13 TWP 9S RGE 94W

ELEVATIONS:

KB 7302 FT DF GL 7272 FT

DATE 28-JUN-2018 ECC 136907

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.

### COMPUTATION PARAMETERS

COMPUTATION	LOGS USED: <u>RPM-C</u>		PROGRAM: <u>NEO</u>
	CENTER: <u>HOUSTON</u>	LOG ANALYST: <u>KIMBERLY ELLSWORTH</u>	DATE: <u>28-JUN-2018</u>
FIELD DATA	LOCATION: <u>GRAND JUNCTION</u>	ENGINEER: <u>T. NEWELL</u>	DATE: <u>21-JUN-2018</u>

FROM	TO								
<u>2210 FT</u>	<u>8066 FT</u>								

### REMARKS

LOCATION: SHL: 1397' FSL & 1623' FWL  
BHL: 1397' FSL & 1623' FWL

TRAINING WELL:  
GUNDERSON 13-06W

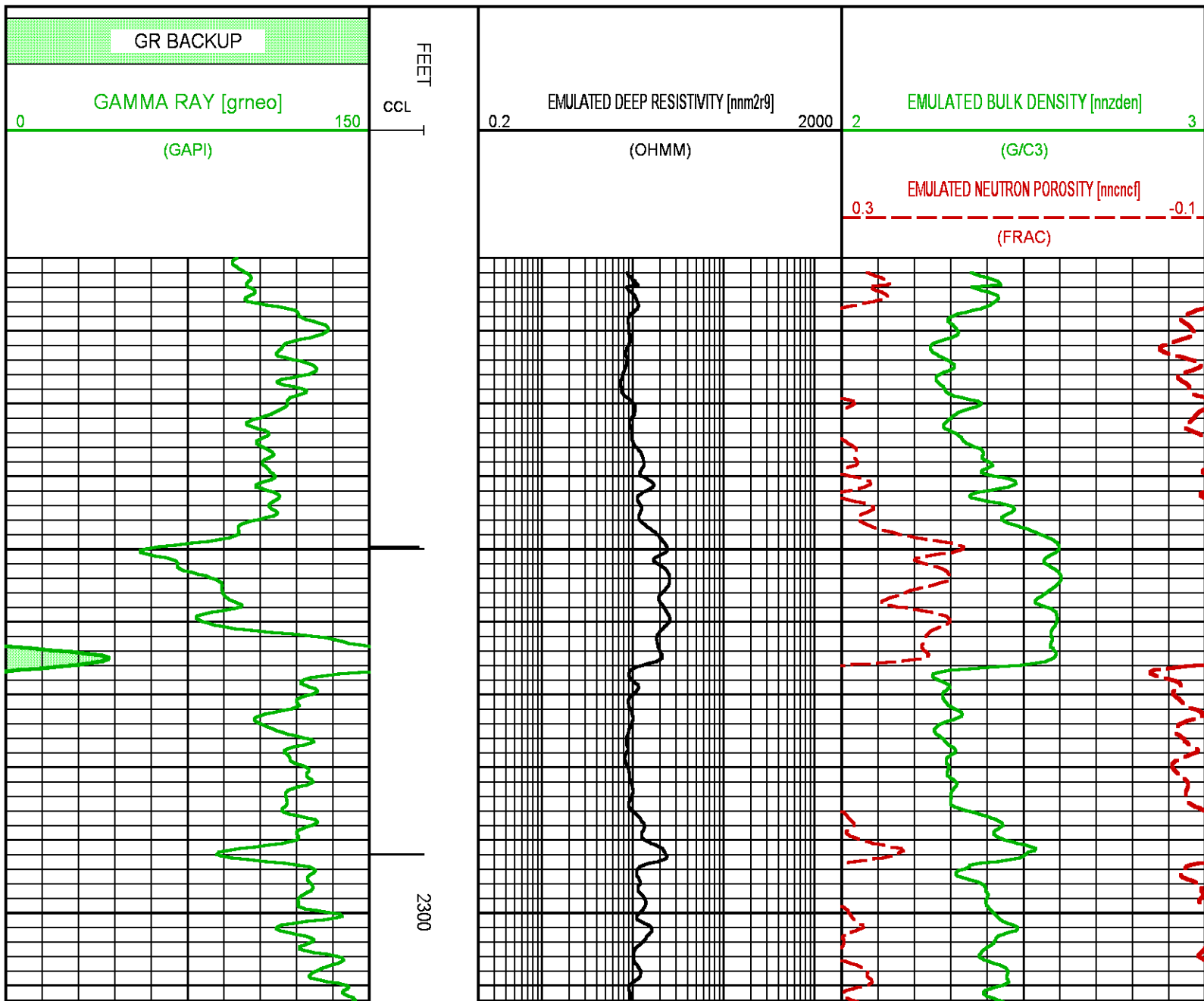
ANY ERRORS IN THE TRAINING WELL OPENHOLE DATA CAN PERETUATE THROUGH AS ERROR IN THE EMULATED RESULTS

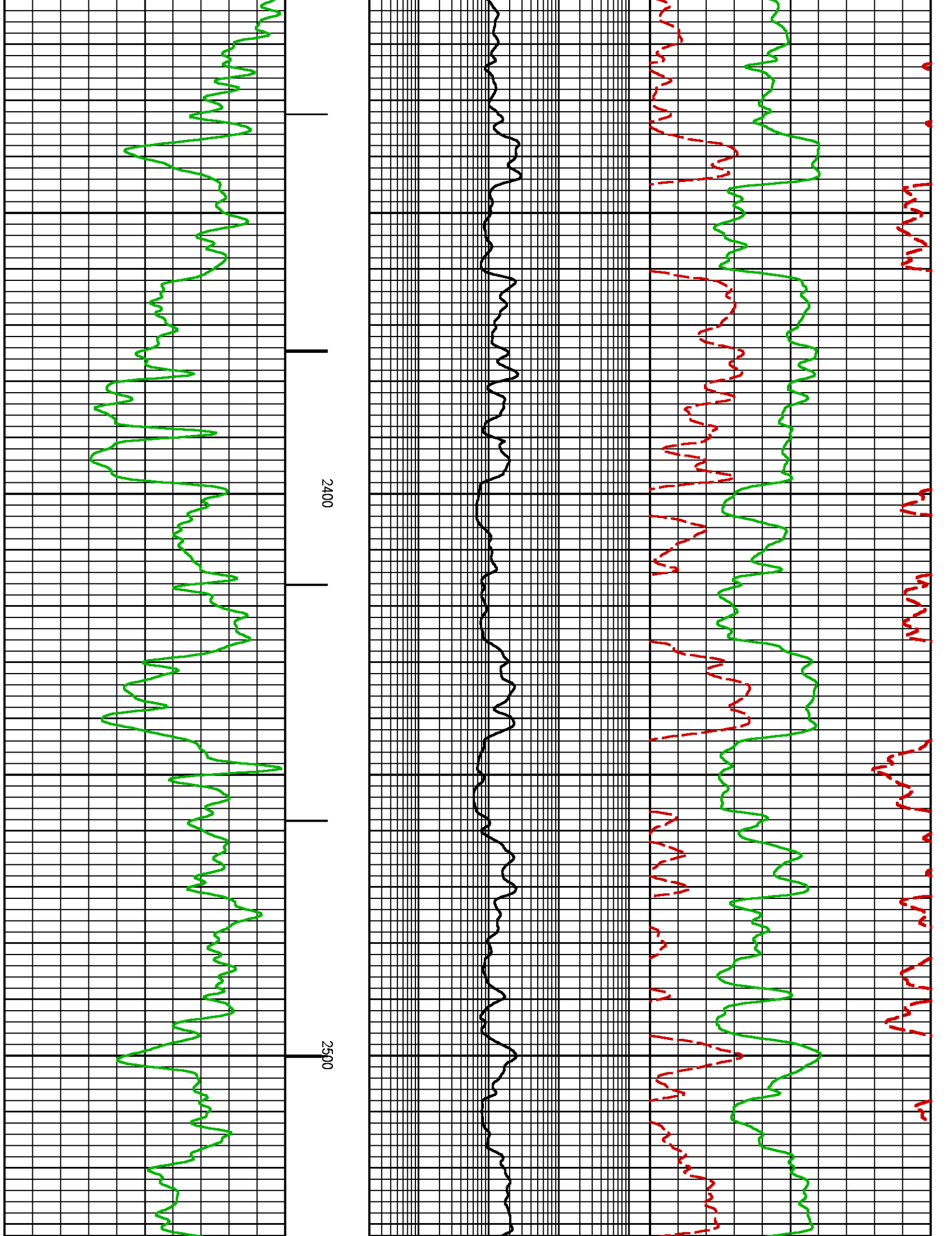
BOND LOG IS DEPTH REFERENCE LOG

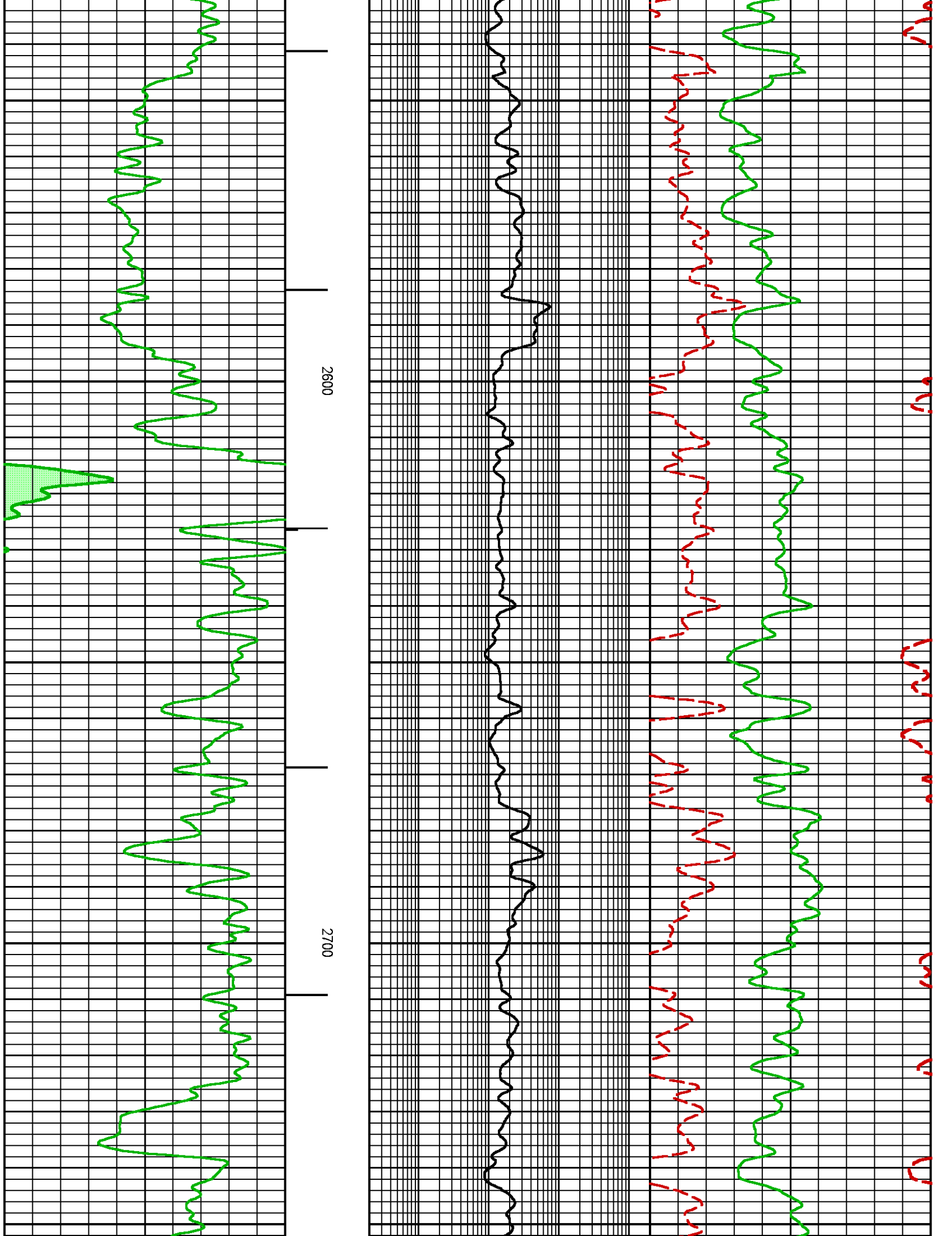
## NEO RESULTS FOR GUNDERSON 0994-13-16W (G-SAND)

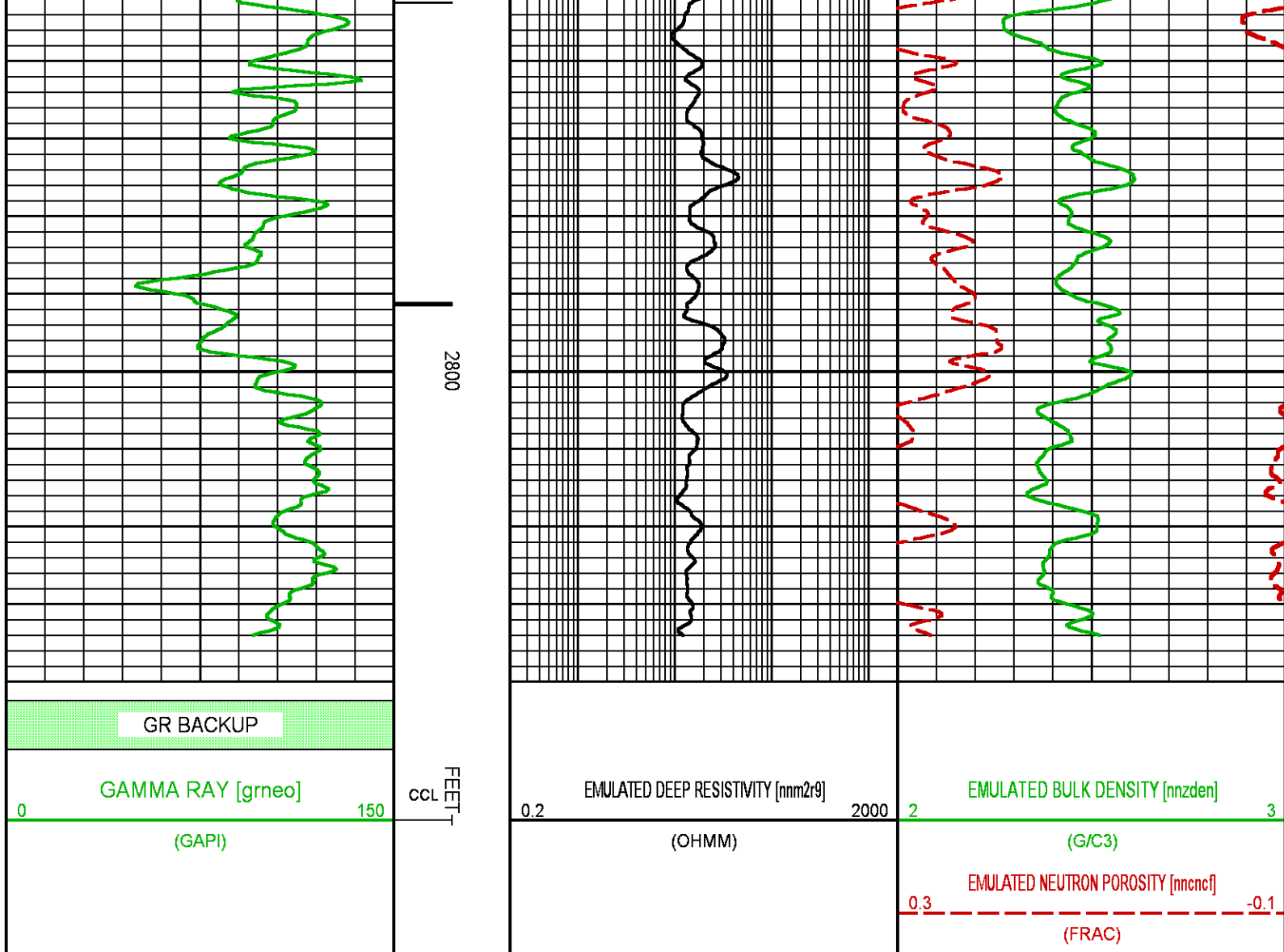
Project : NA  
User : ellskima  
Presentation : BHI3BKZH12:C:\Ape\_Projects\laramie\_gunderson\_13\_16w\NEO\_PRESENTATION\_LARAMIE\_G-Sand.pdf [5"/100' Scale]  
Plot Interval : 2210 - 2840 Feet

Data File 1 : F1 : BHI3BKZH12:C:\Ape\_Projects\laramie\_gunderson\_13\_16w\Merged\_Set\_Final.xtf  
Created On : N/A  
Company : LARAMIE ENERGY LLC  
Well : GUNDERSON 0994-13-16W  
Field : VEGA  
File Interval : 2210 - 8065 Feet  
OCT : NA



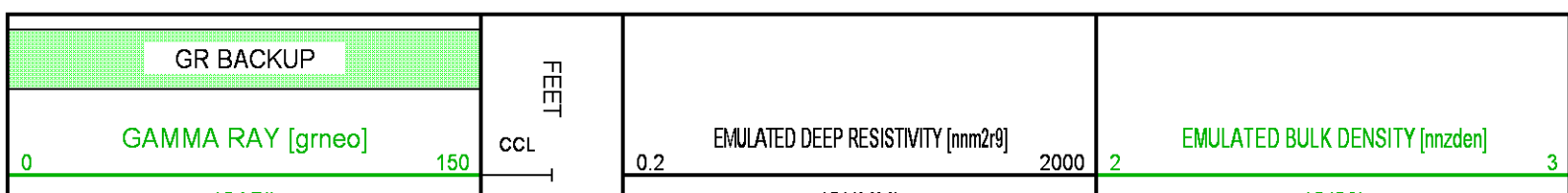






## NEO RESULTS FOR GUNDERSON 0994-13-16W (MAIN)

**Project** : NA  
**User** : ellskima  
**Presentation** : BHI3BKZH12:C:\Ape\_Projects\laramie\_gunderson\_13\_16w\NEO\_PRESENTATION\_LARAMIE\_MAIN.pdf [5"/100" Scale]  
**Plot Interval** : 4320 - 8065 Feet  
**Data File 1** : F1 : BHI3BKZH12:C:\Ape\_Projects\laramie\_gunderson\_13\_16w\Merged\_Set\_Final.xtf  
**Created On** : N/A  
**Company** : LARAMIE ENERGY LLC  
**Well** : GUNDERSON 0994-13-16W  
**Field** : VEGA  
**File Interval** : 2210 - 8065 Feet  
**OCT** : NA



(GAPI)

(OHMM)

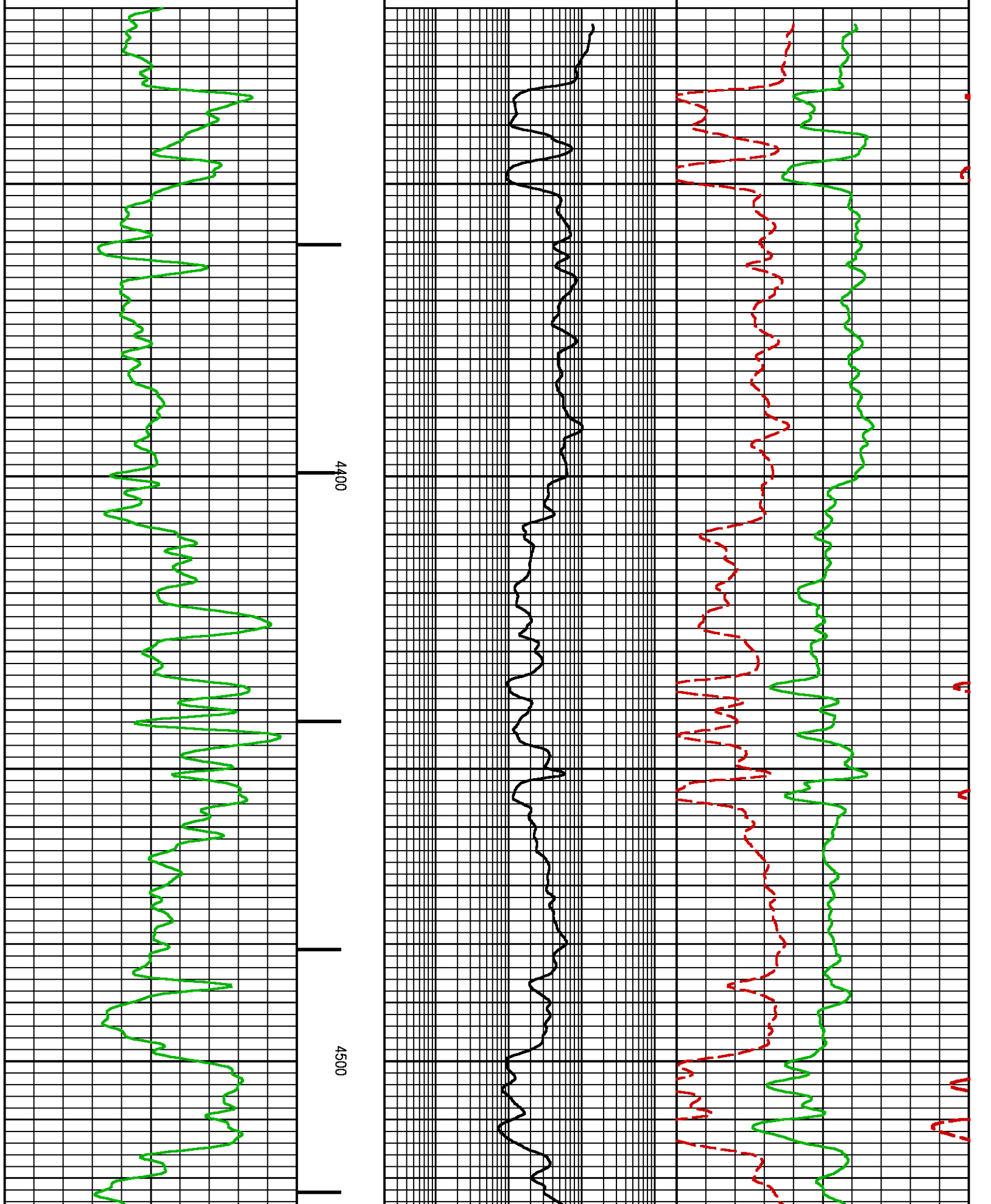
(G/C3)

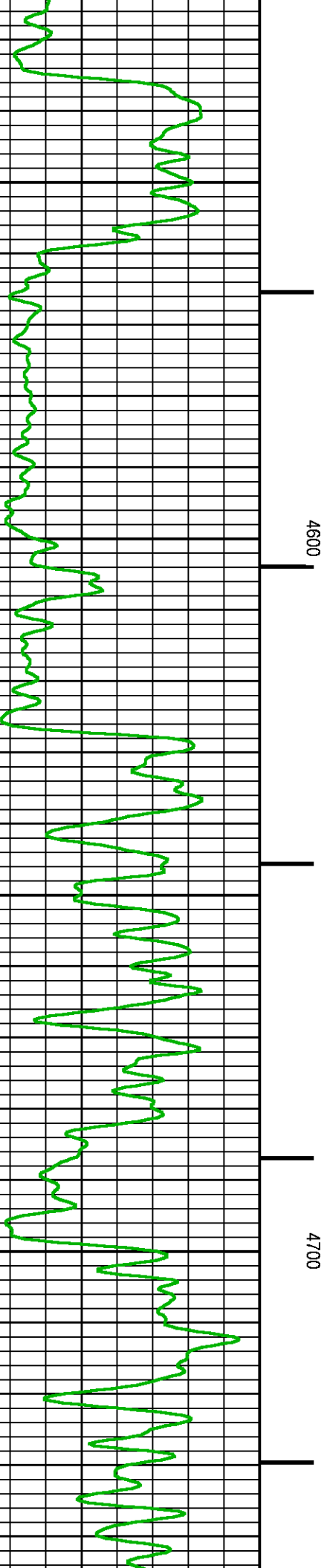
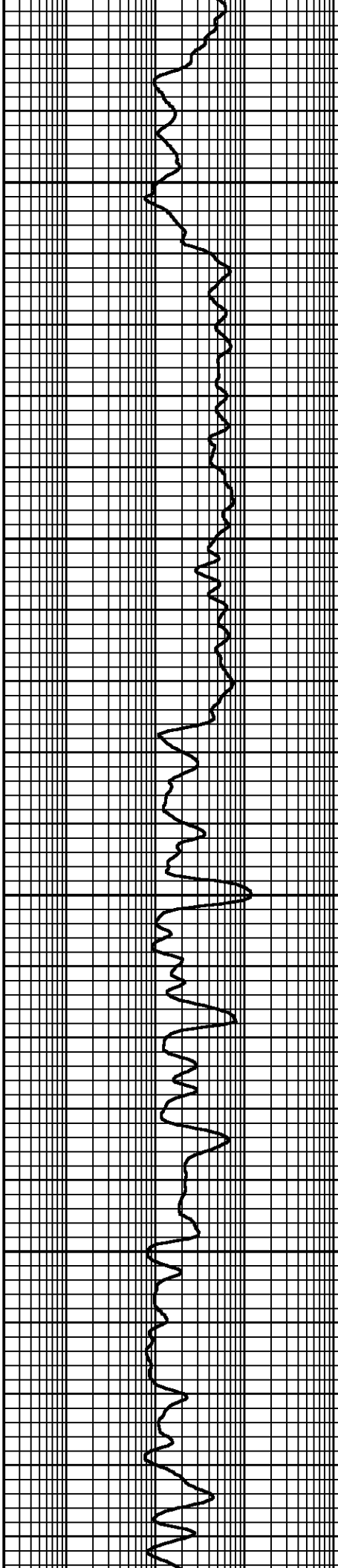
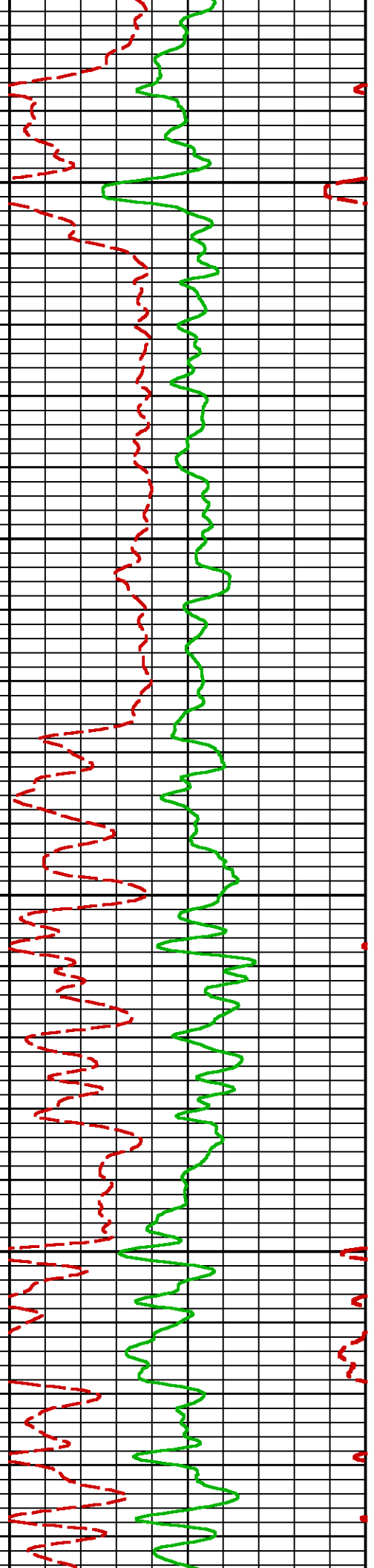
EMULATED NEUTRON POROSITY [nnenc]

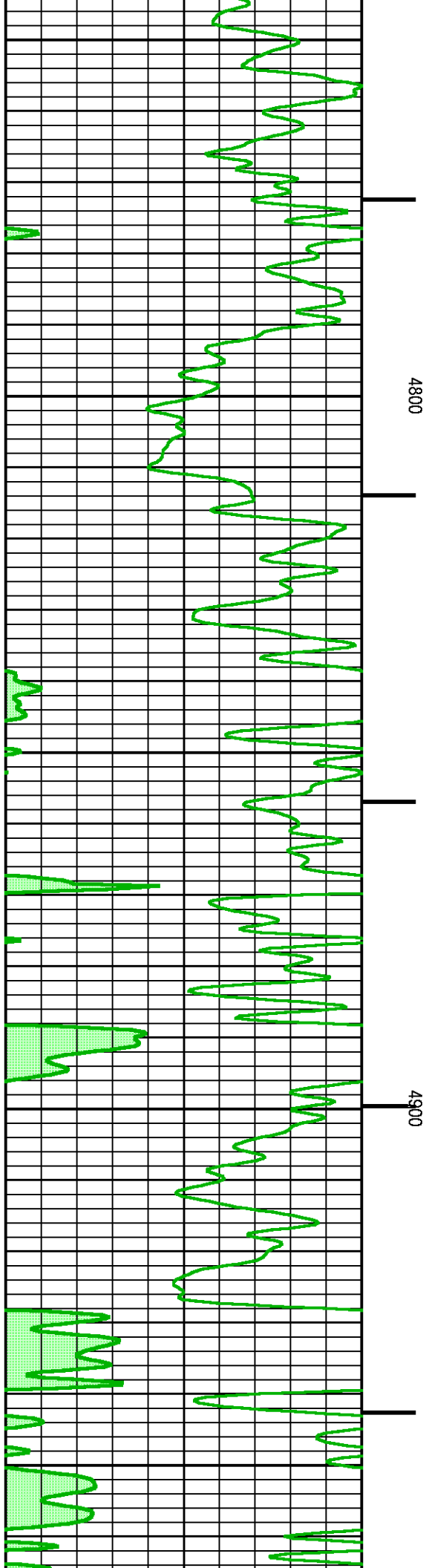
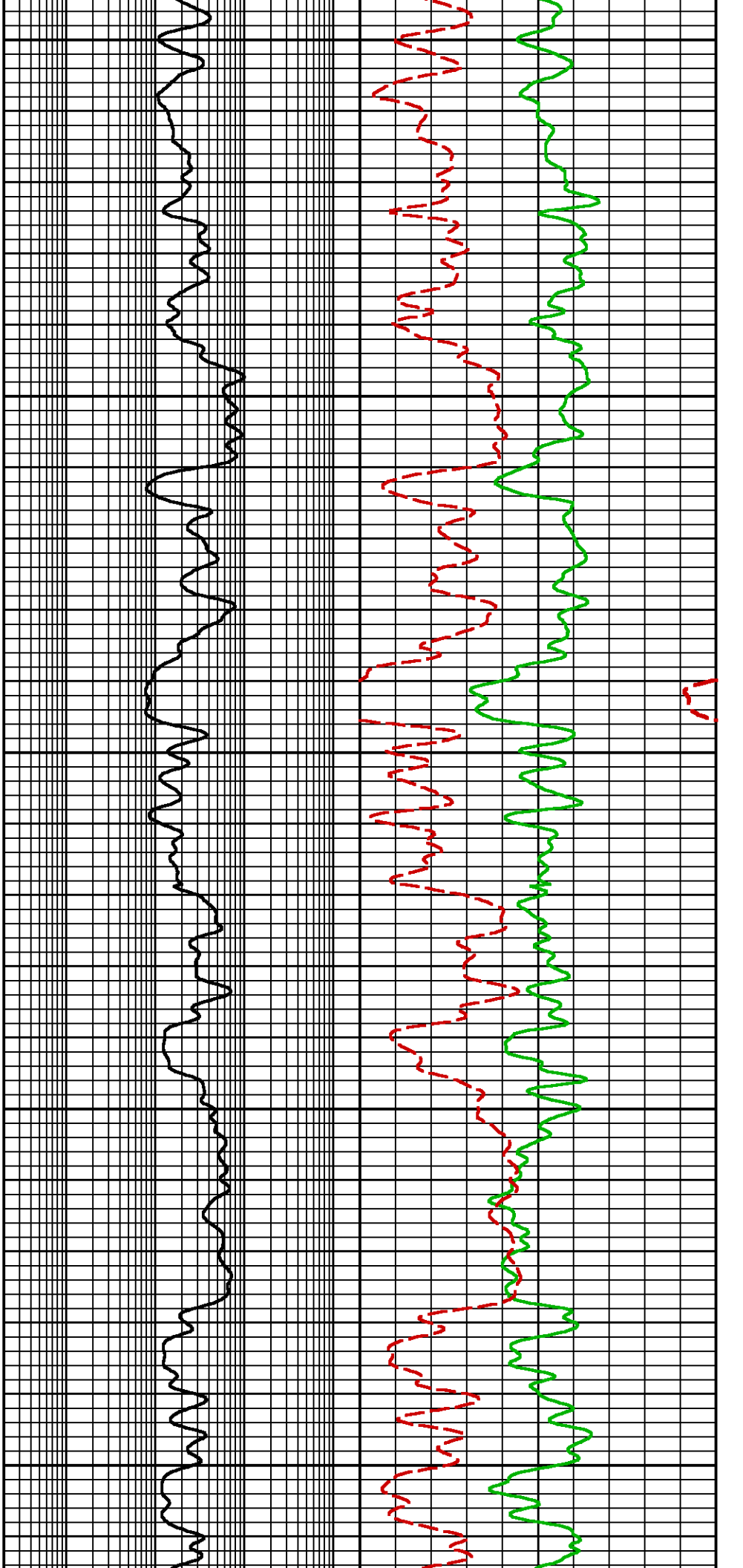
0.3

-0.1

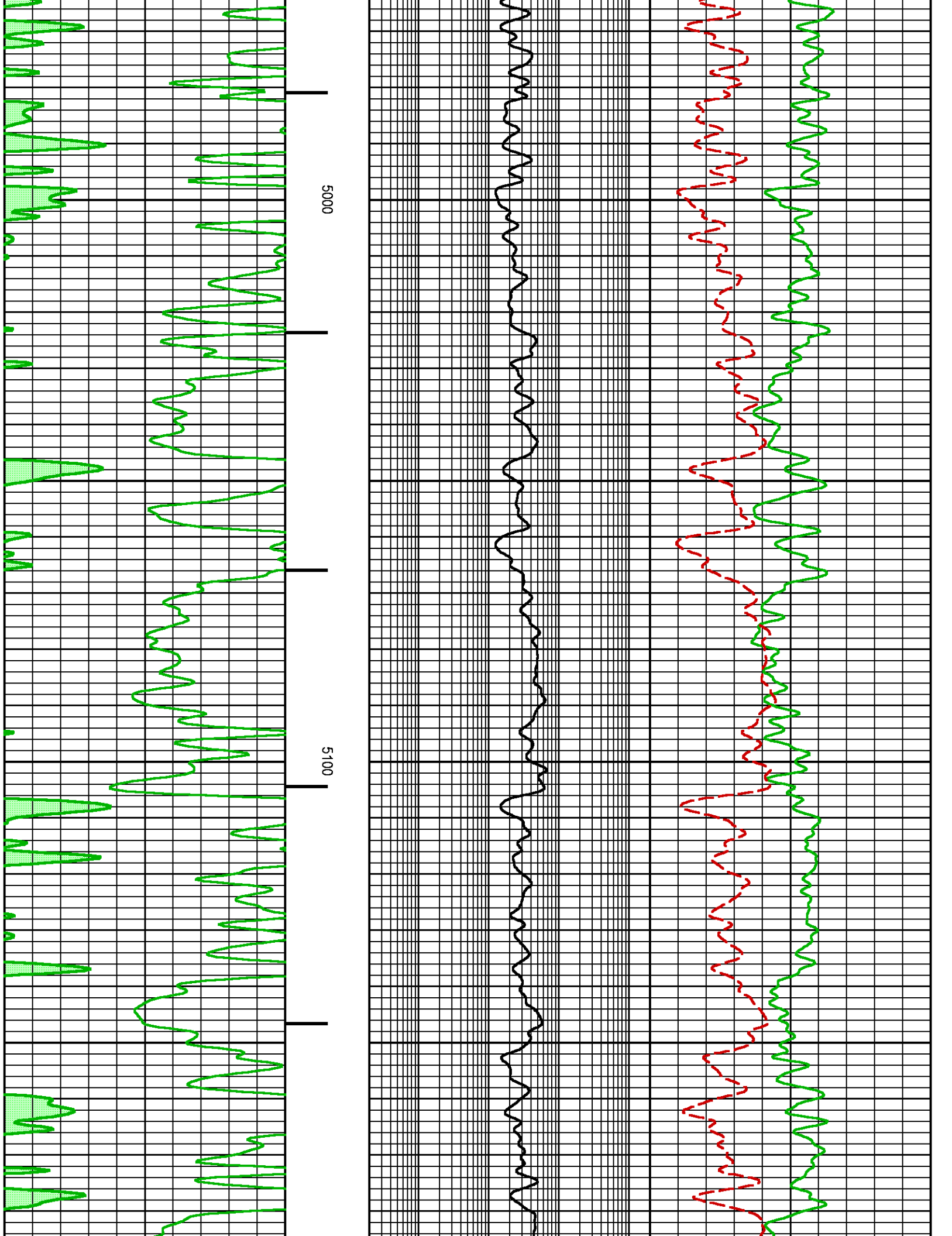
(FRAC)

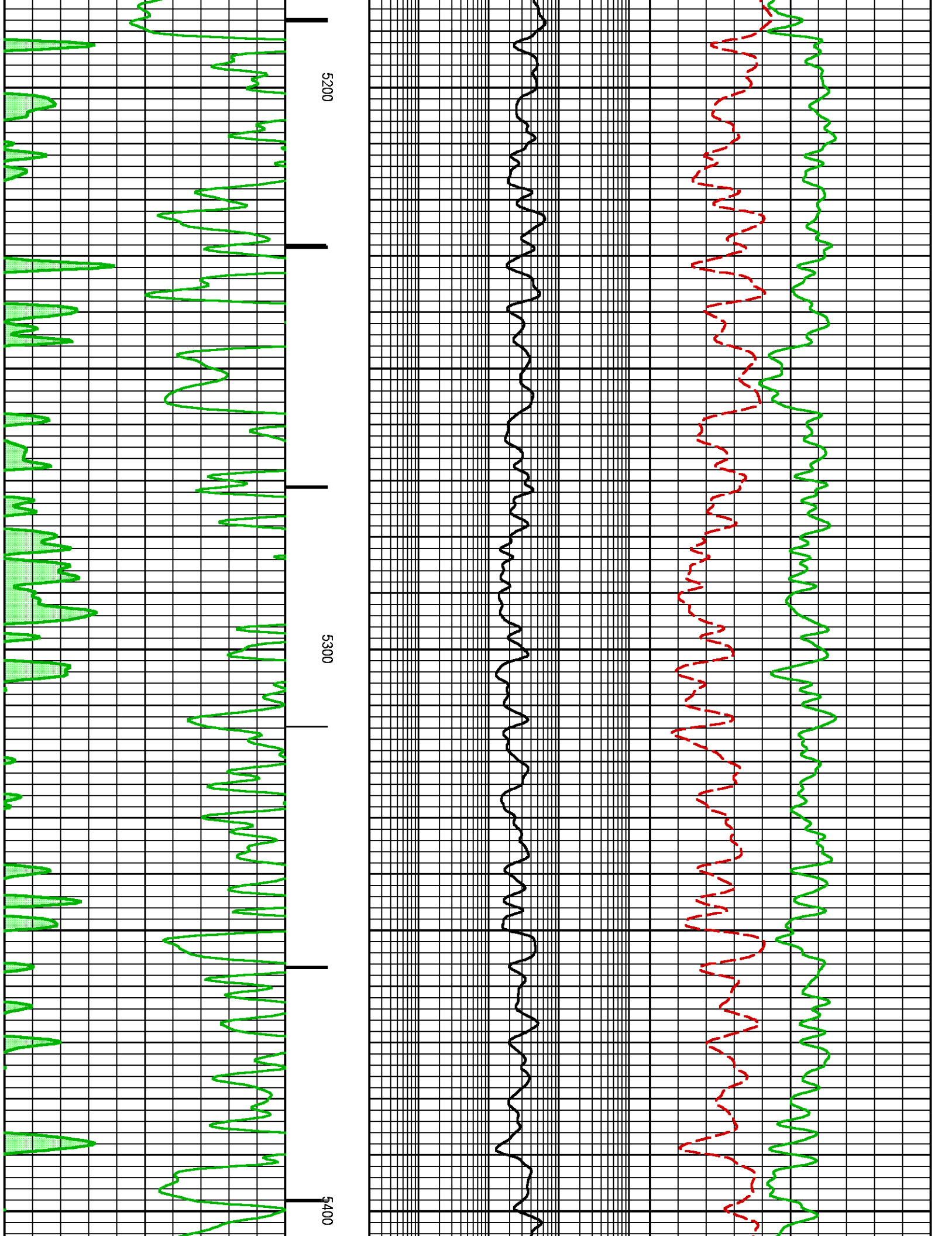


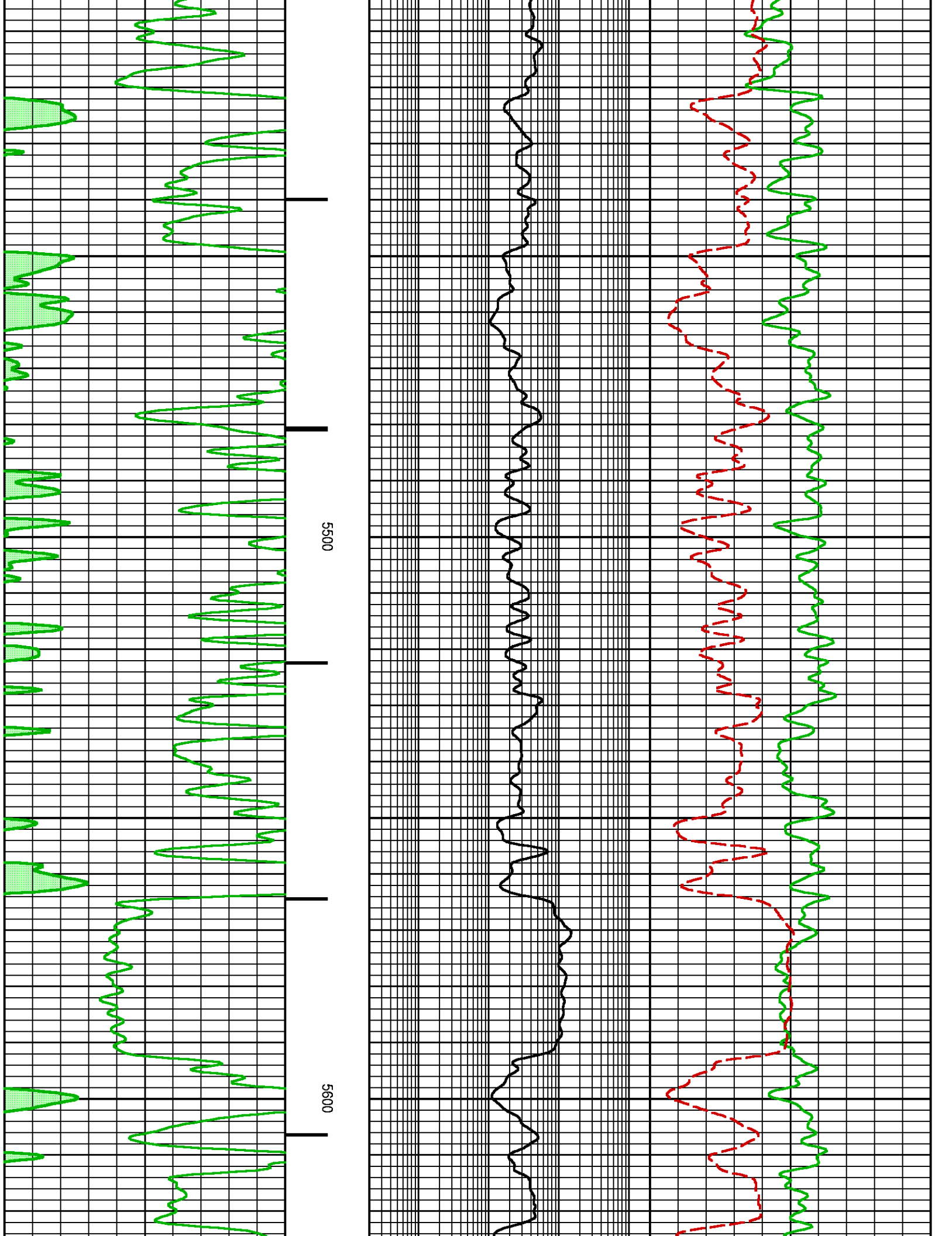


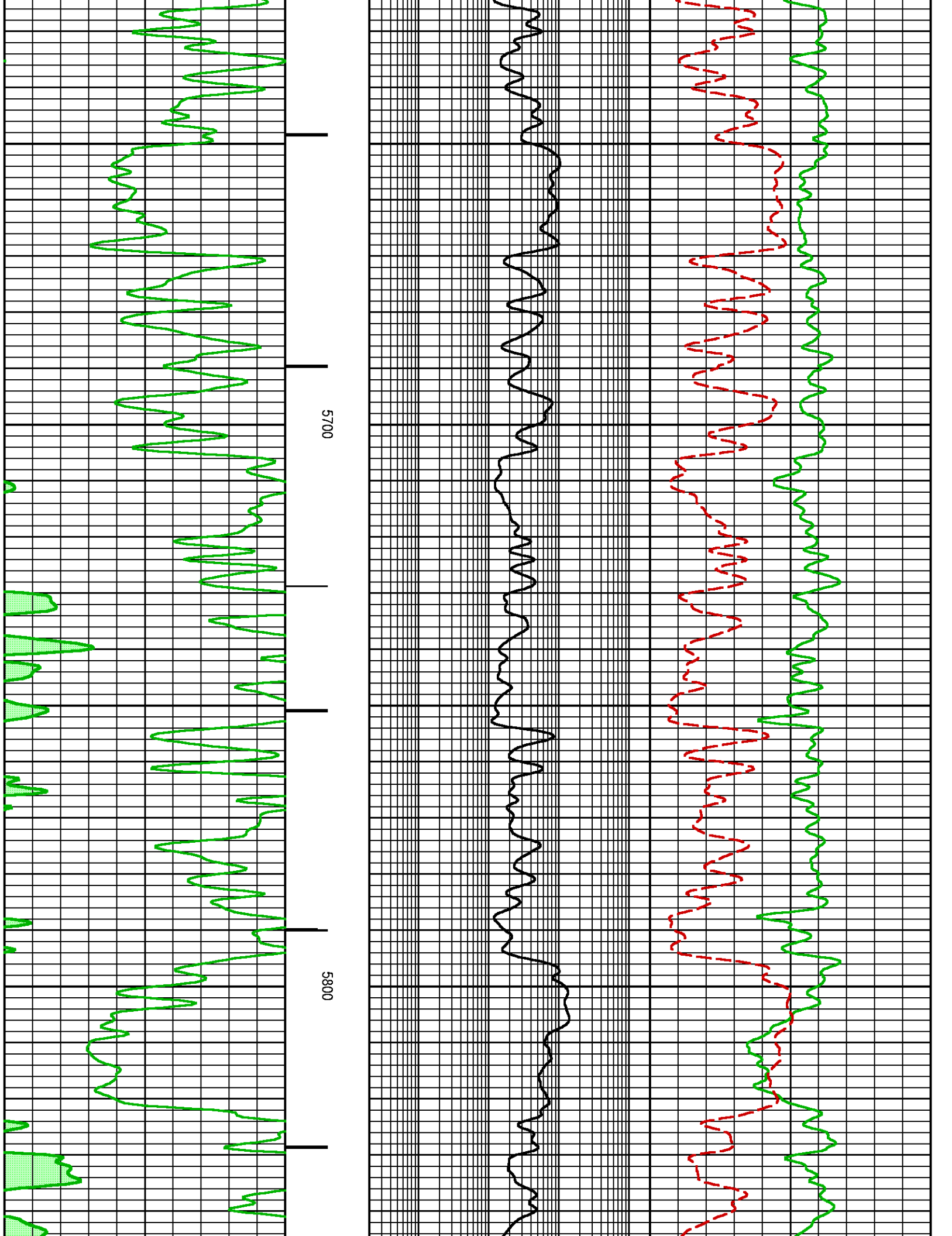


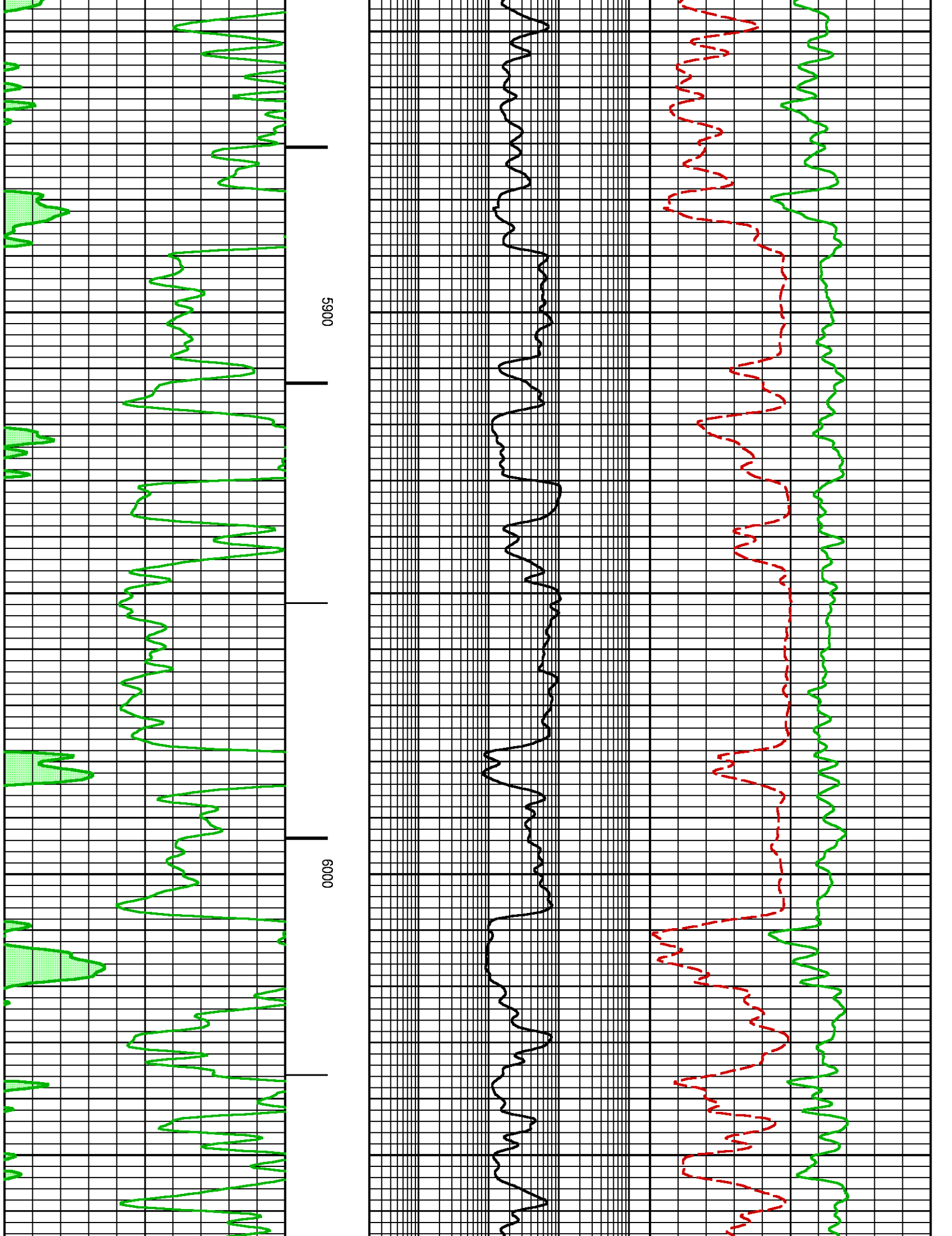


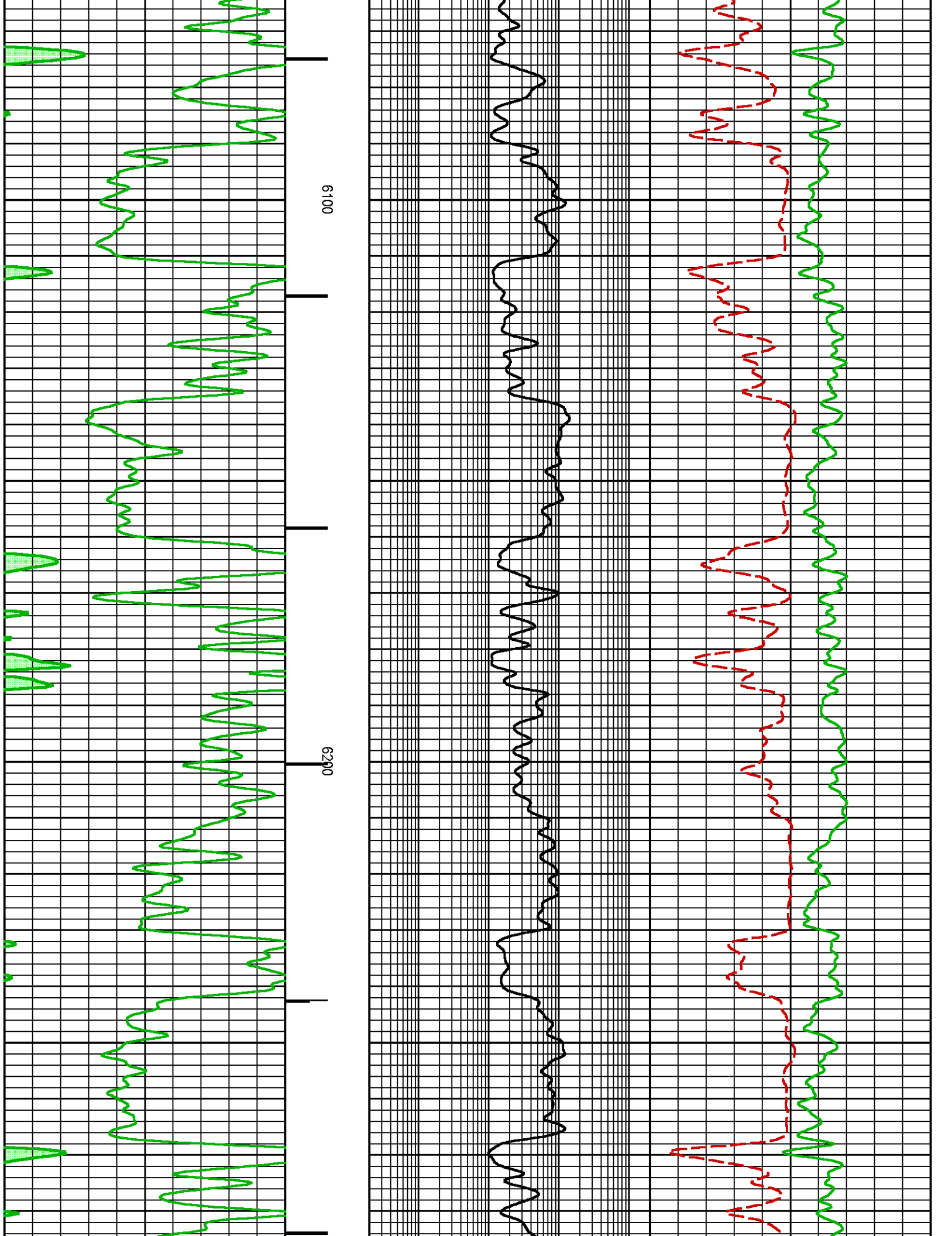


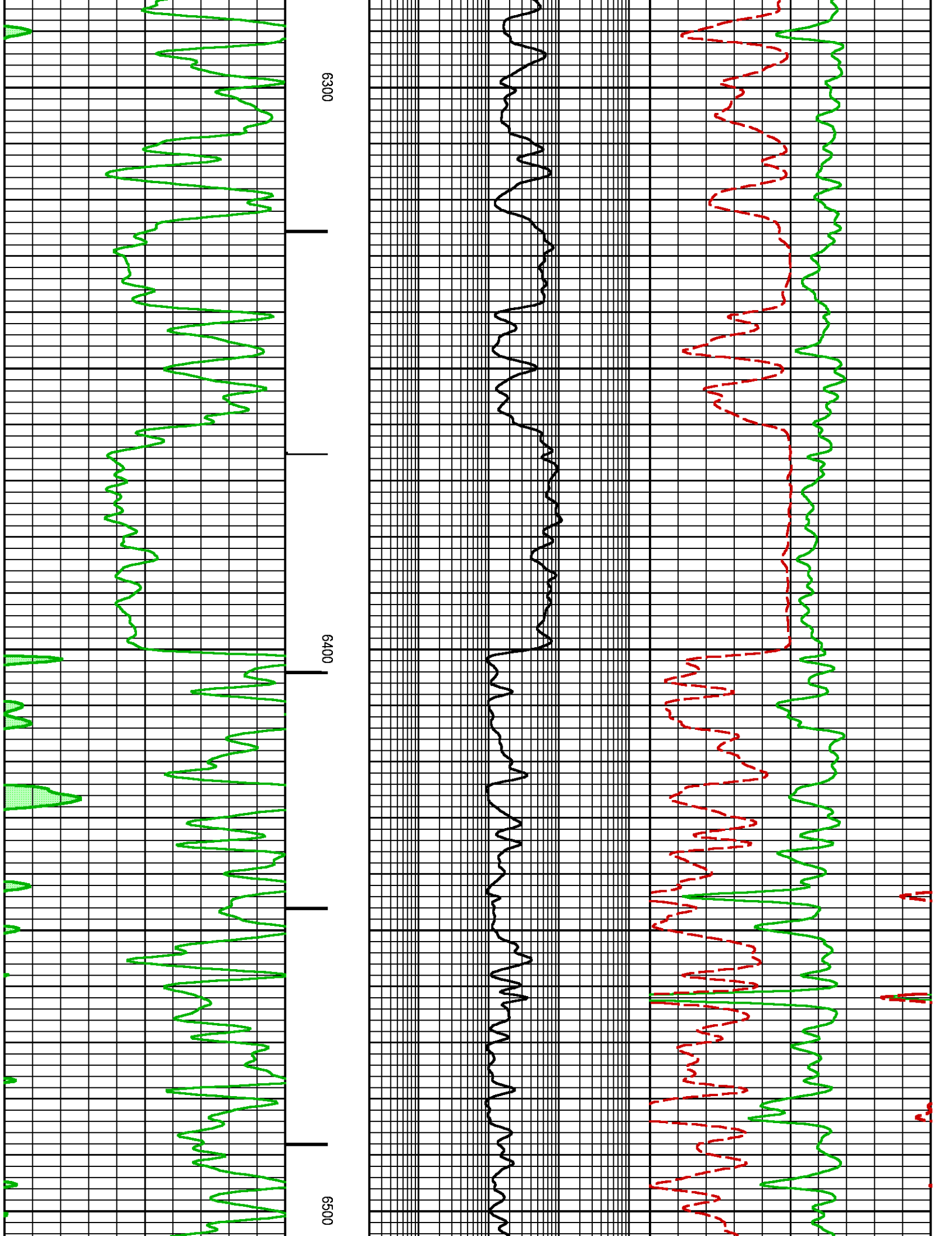


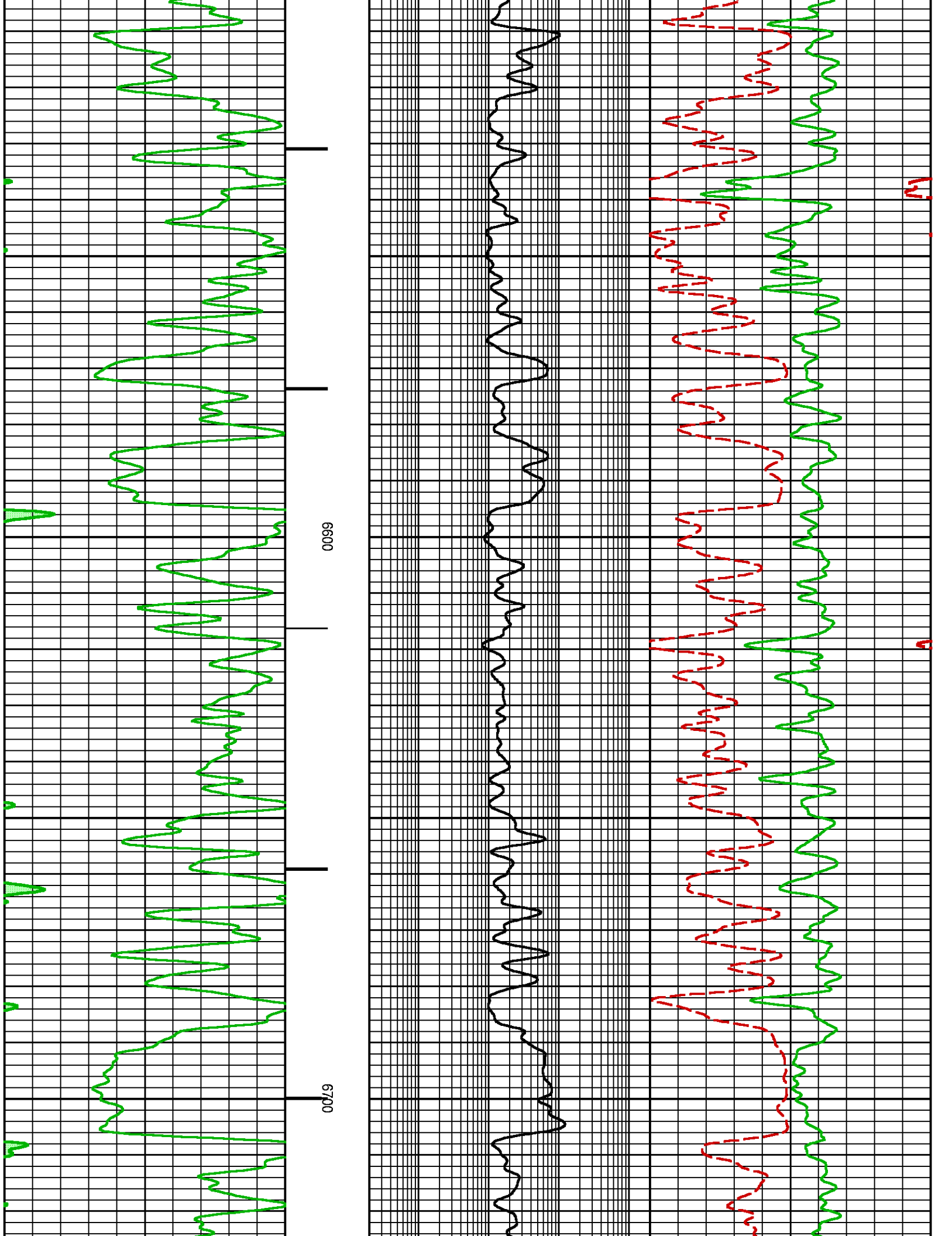




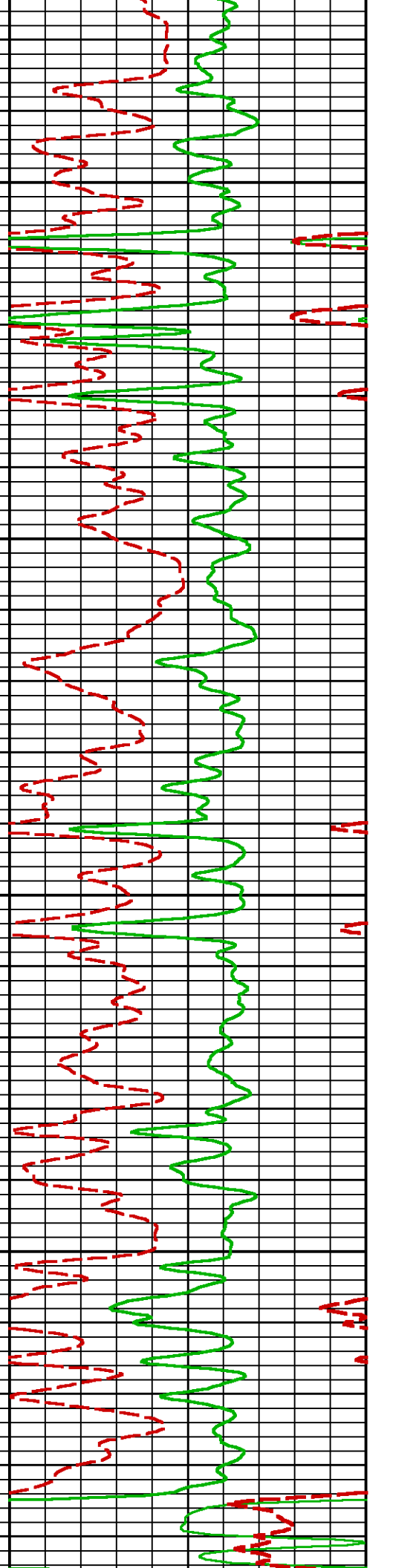
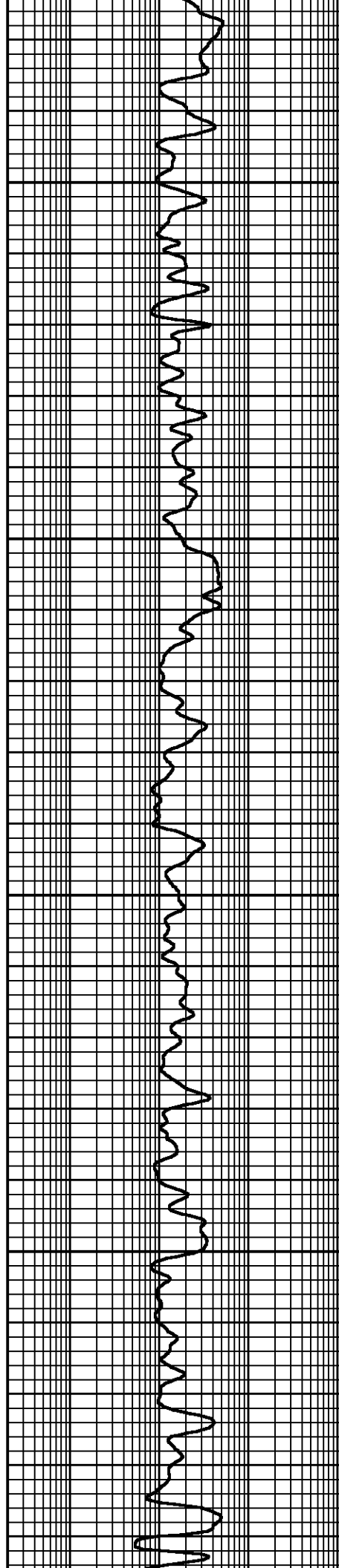
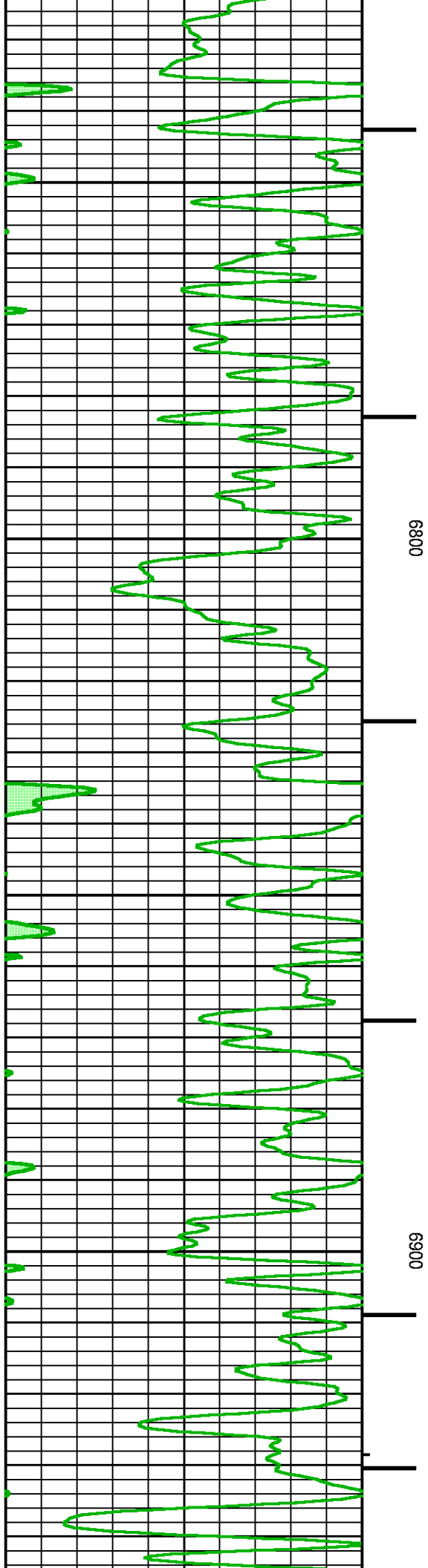


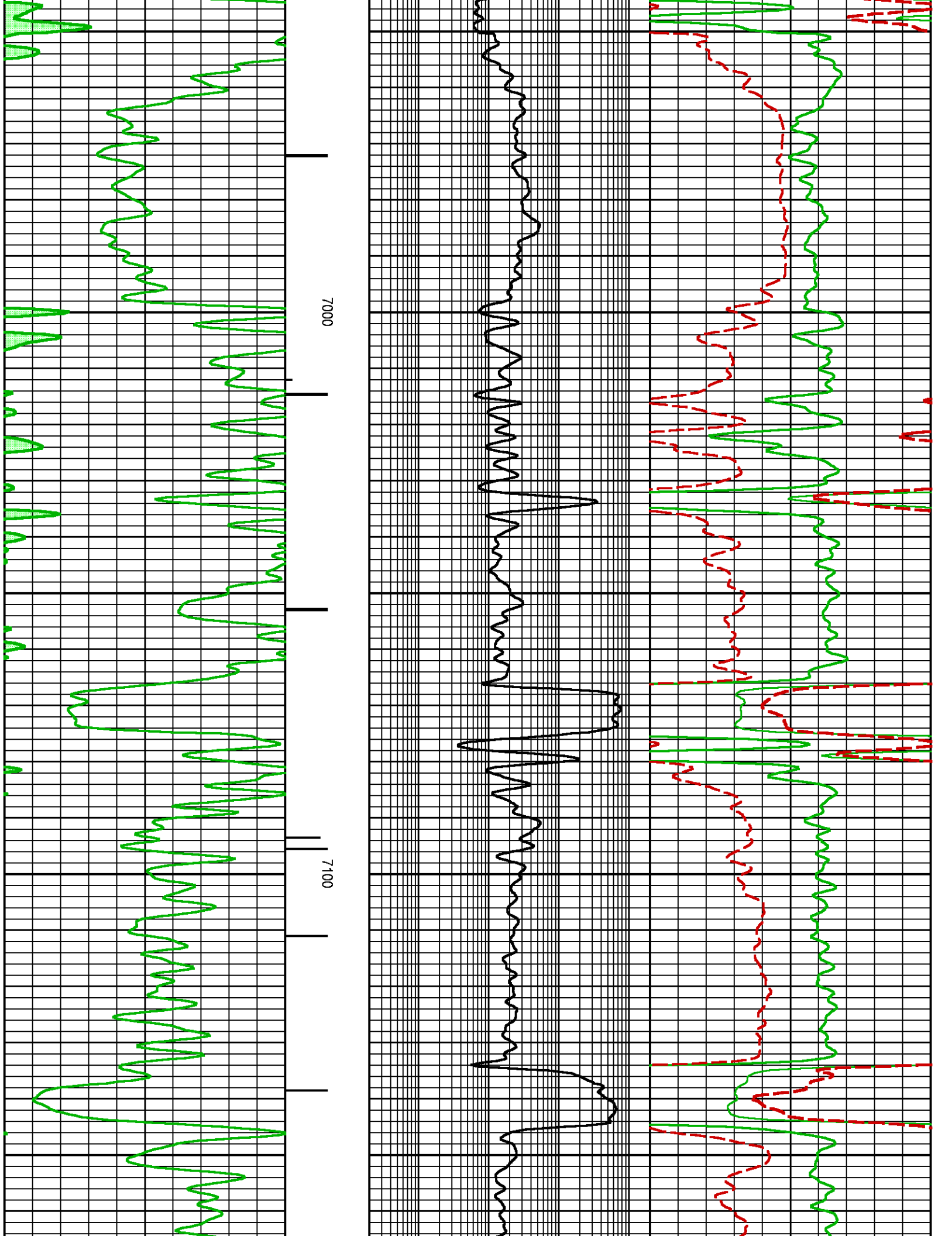


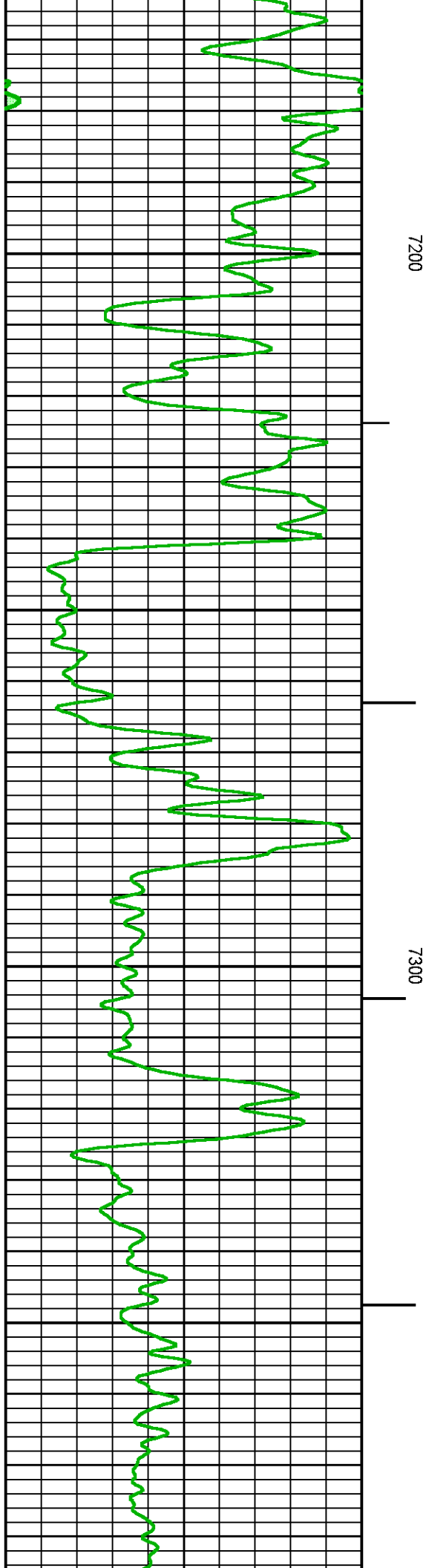
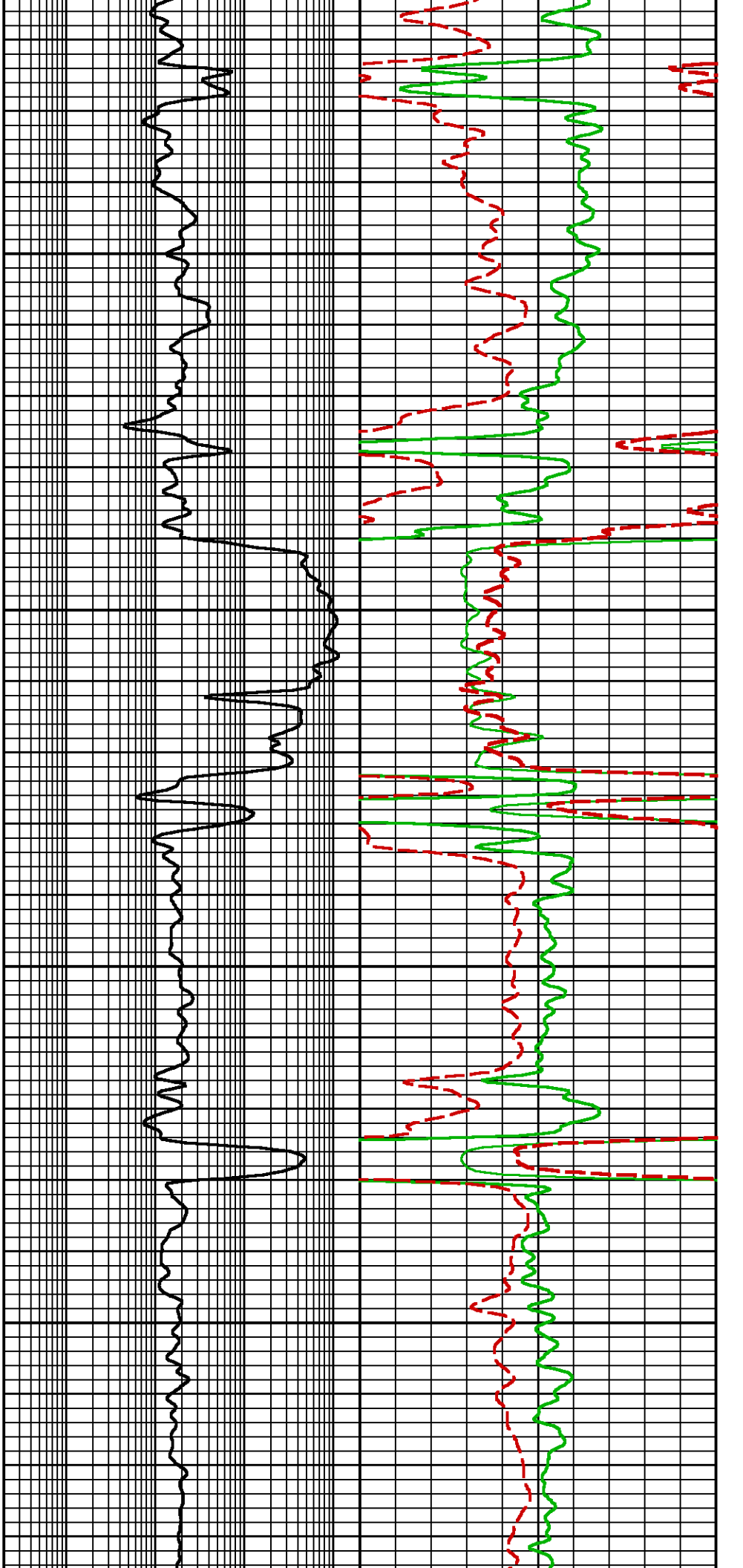


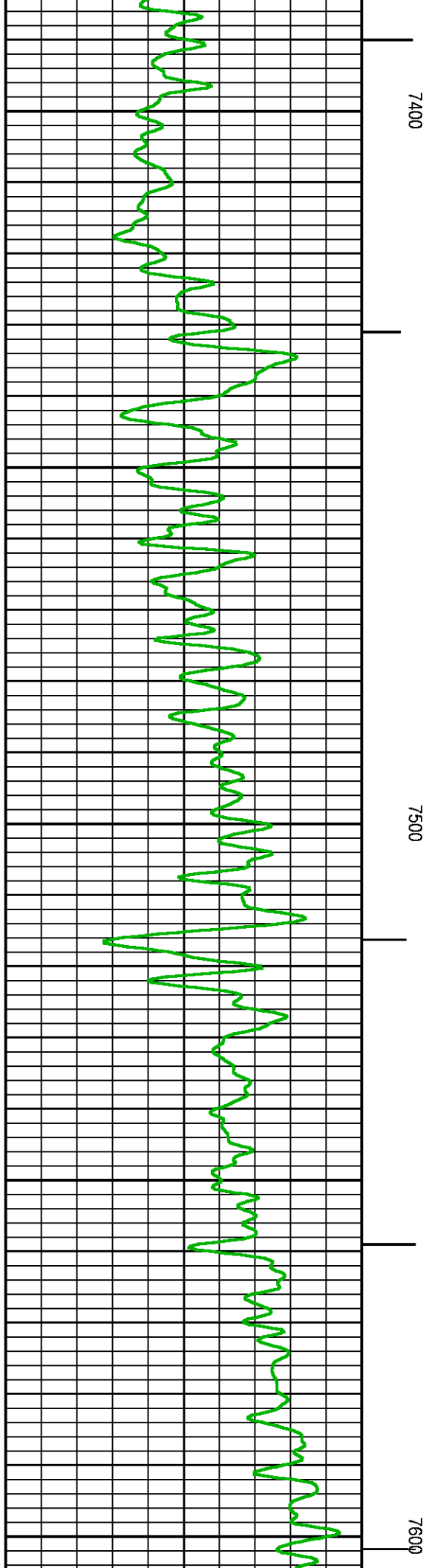
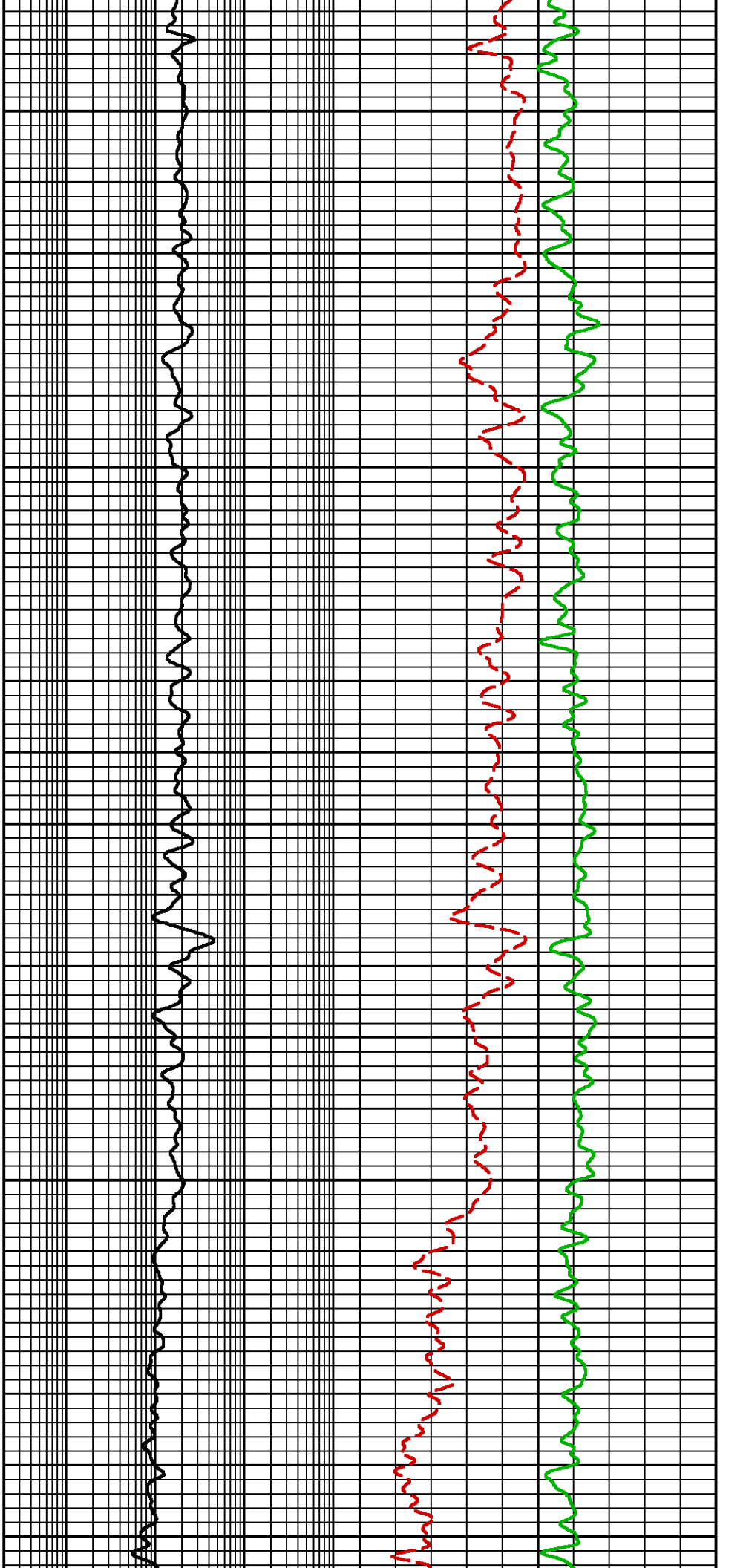


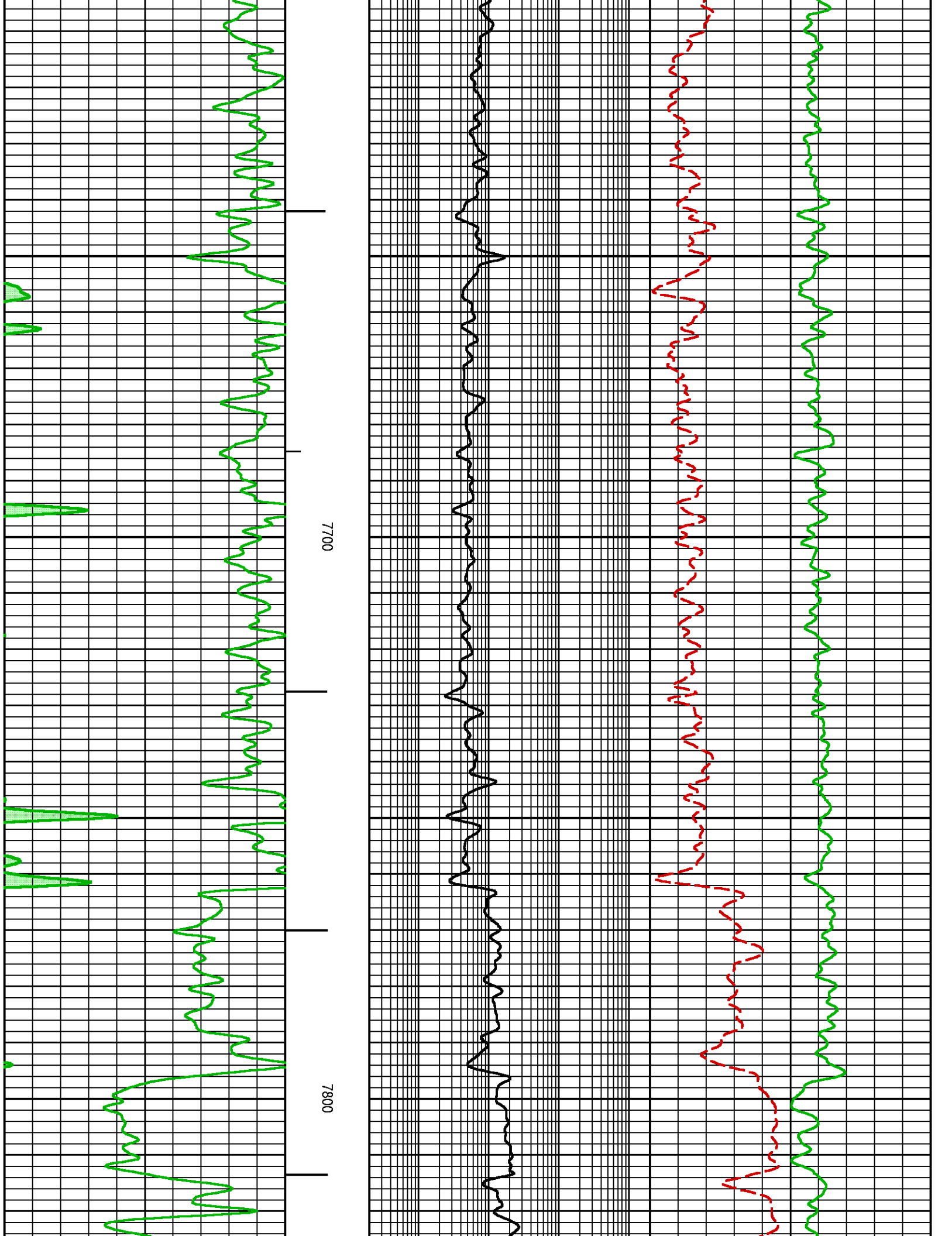


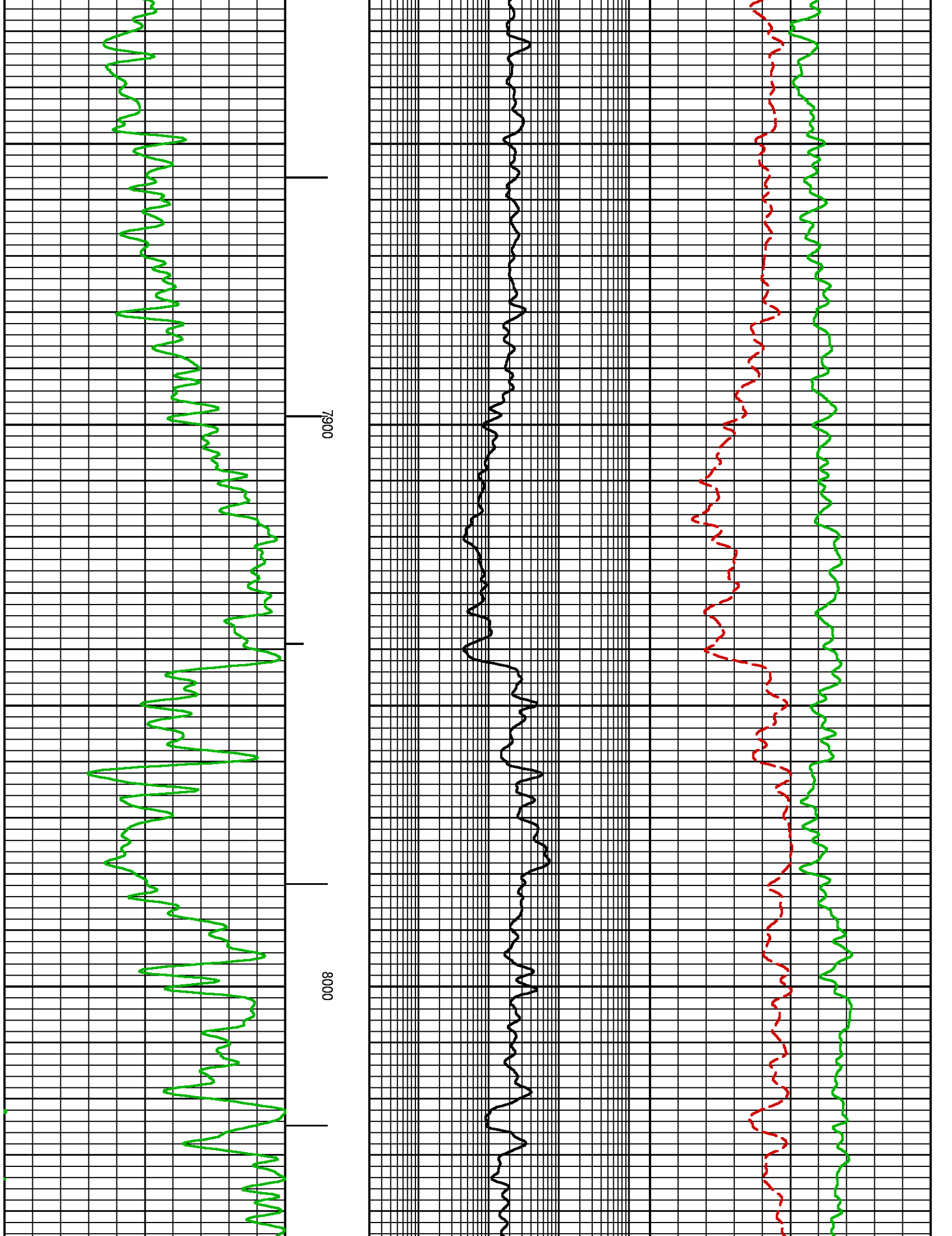


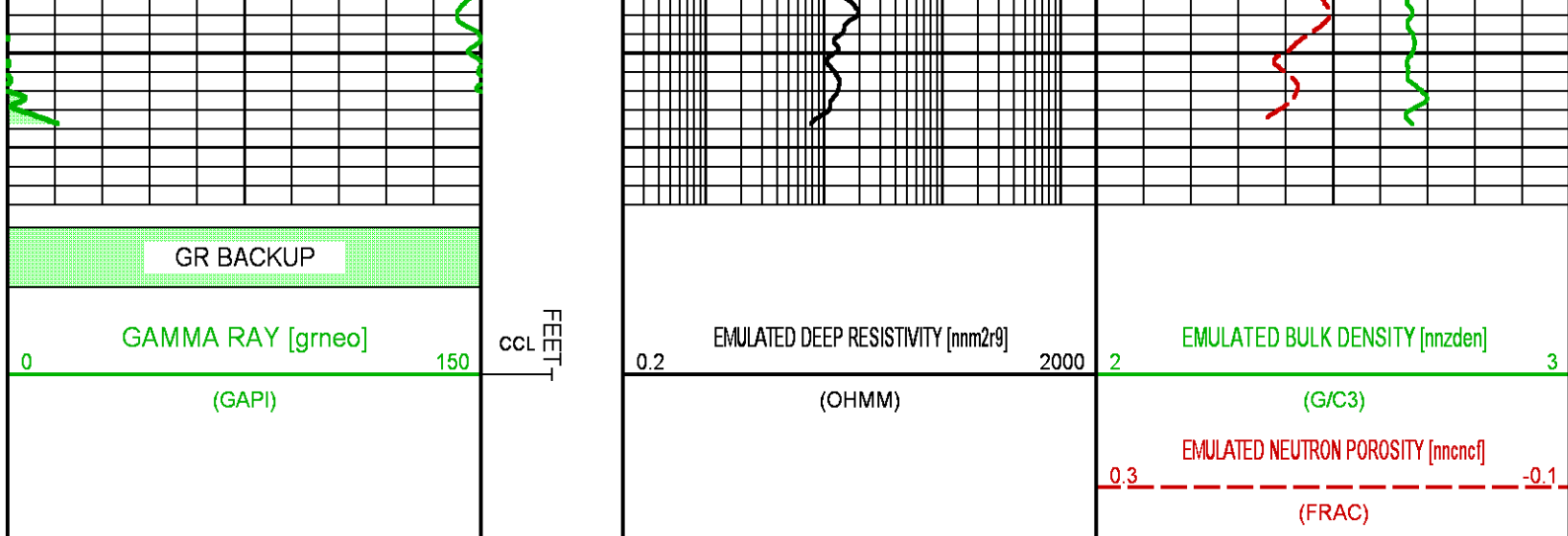



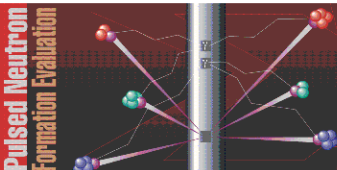










 	<b>COMPANY</b> <u>LARAMIE ENERGY LLC</u> <b>WELL</b> <u>GUNDERSON 0994-13-16W</u> <b>FIELD</b> <u>VEGA</u> <b>COUNTY</b> <u>MESA</u> <b>STATE</b> <u>COLORADO</u>	<b>FILE NO:</b> _____ <b>API NO:</b> <u>05-077-10536-0000</u>	
	<b>LOCATION:</b> <u>SEE REMARKS</u>	<b>ELEVATIONS:</b> KB <u>7302 FT</u> DF _____ GL <u>7272 FT</u>	
	<b>SEC</b> <u>13</u> <b>TWP</b> <u>9S</u> <b>RGE</b> <u>94W</u>	<b>DATE</b> <u>28-JUN-2018</u>	