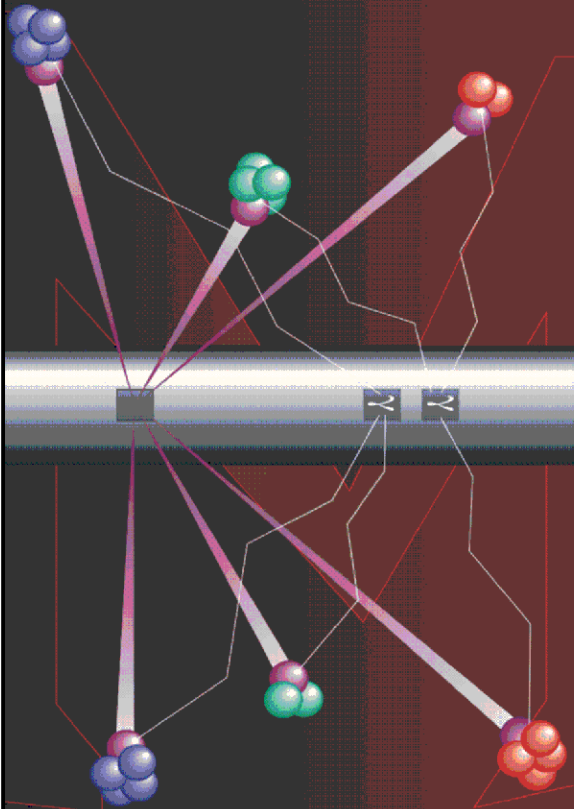


# Pulsed Neutron Formation Evaluation



## RESERVOIR PERFORMANCE MONITOR NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY

WELL BRUTON FEDERAL 30-20E

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS

SEC 30 TWP 9S RGE 93W

ELEVATIONS:

KB 7673 FT DF GL 7643 FT

DATE 10-APR-2018 ECC 133067

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>10-APR-2018</u>
FIELD DATA	LOCATION: <u>GRAND JUNCTION</u>	ENGINEER: <u>T. NEWELL</u>	DATE: <u>7-APR-2018</u>

FROM	TO								
<u>2680 FT</u>	<u>8170 FT</u>								

### REMARKS

LOCATION: SHL: 2627' FSL & 1849' FEL  
BHL: 373' FSL & 820' FEL

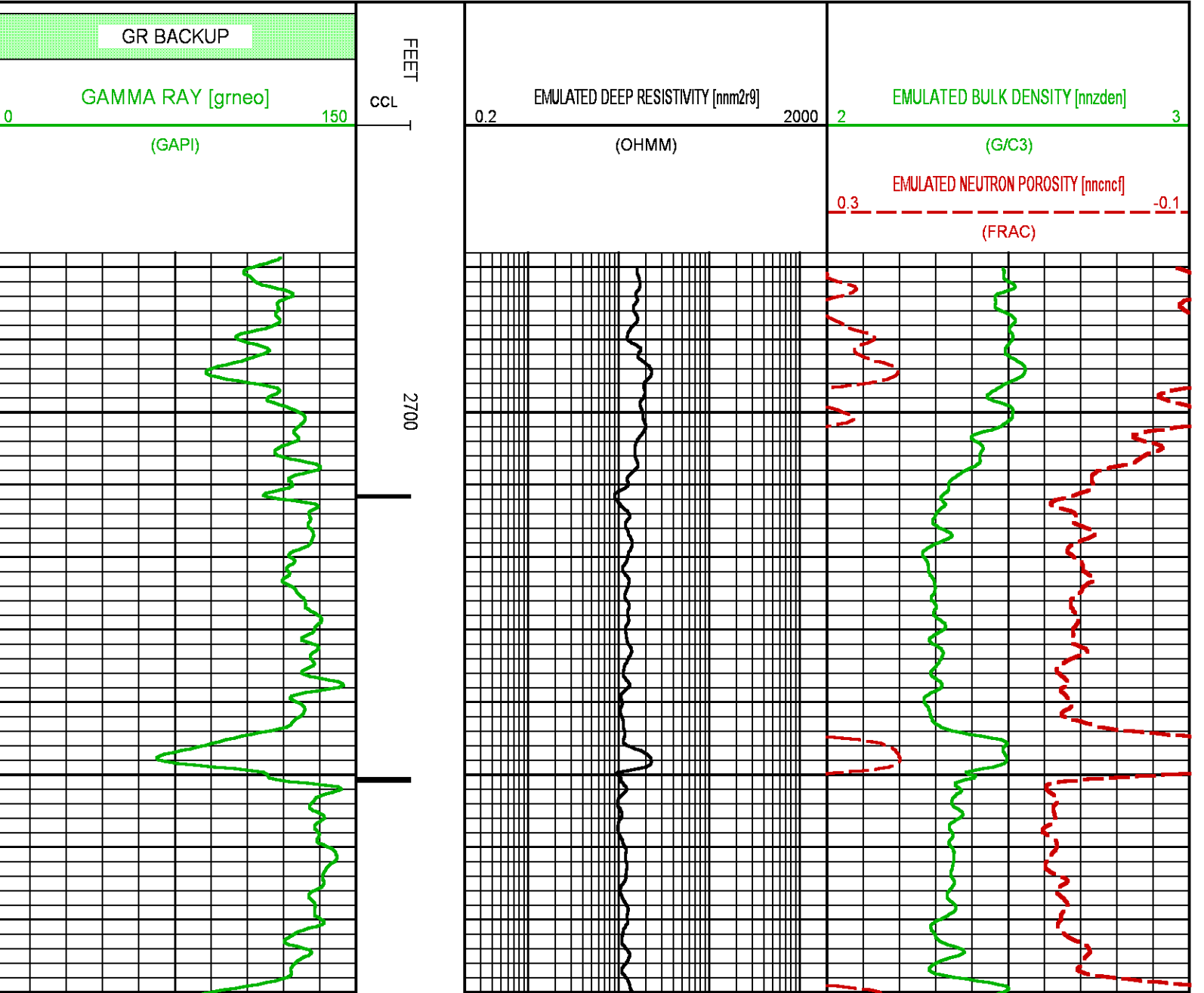
TRAINING WELL:  
BRUTON 30-14E

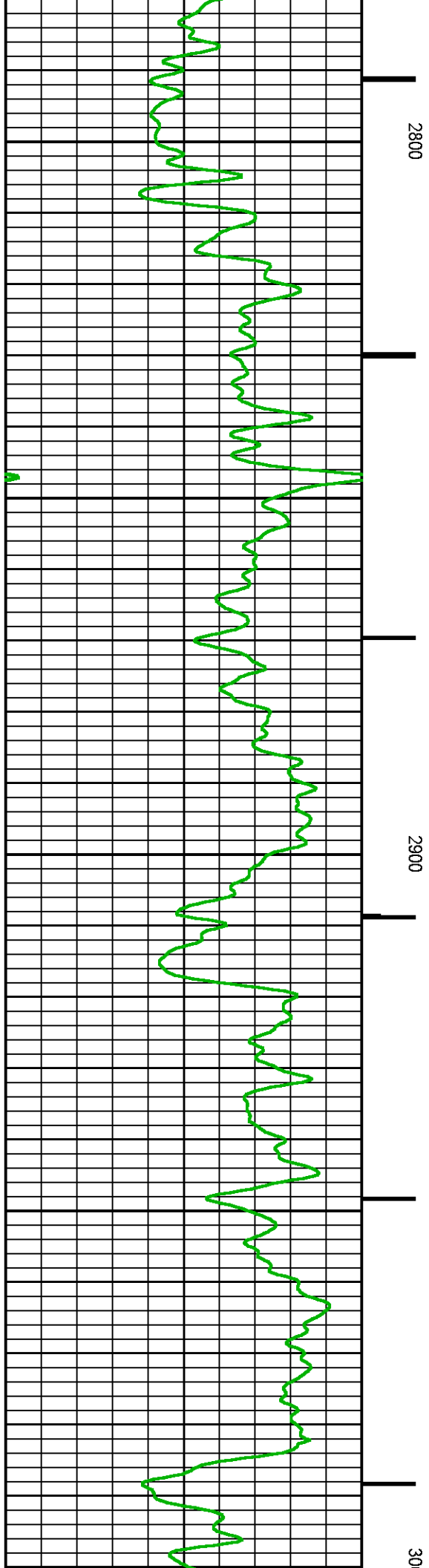
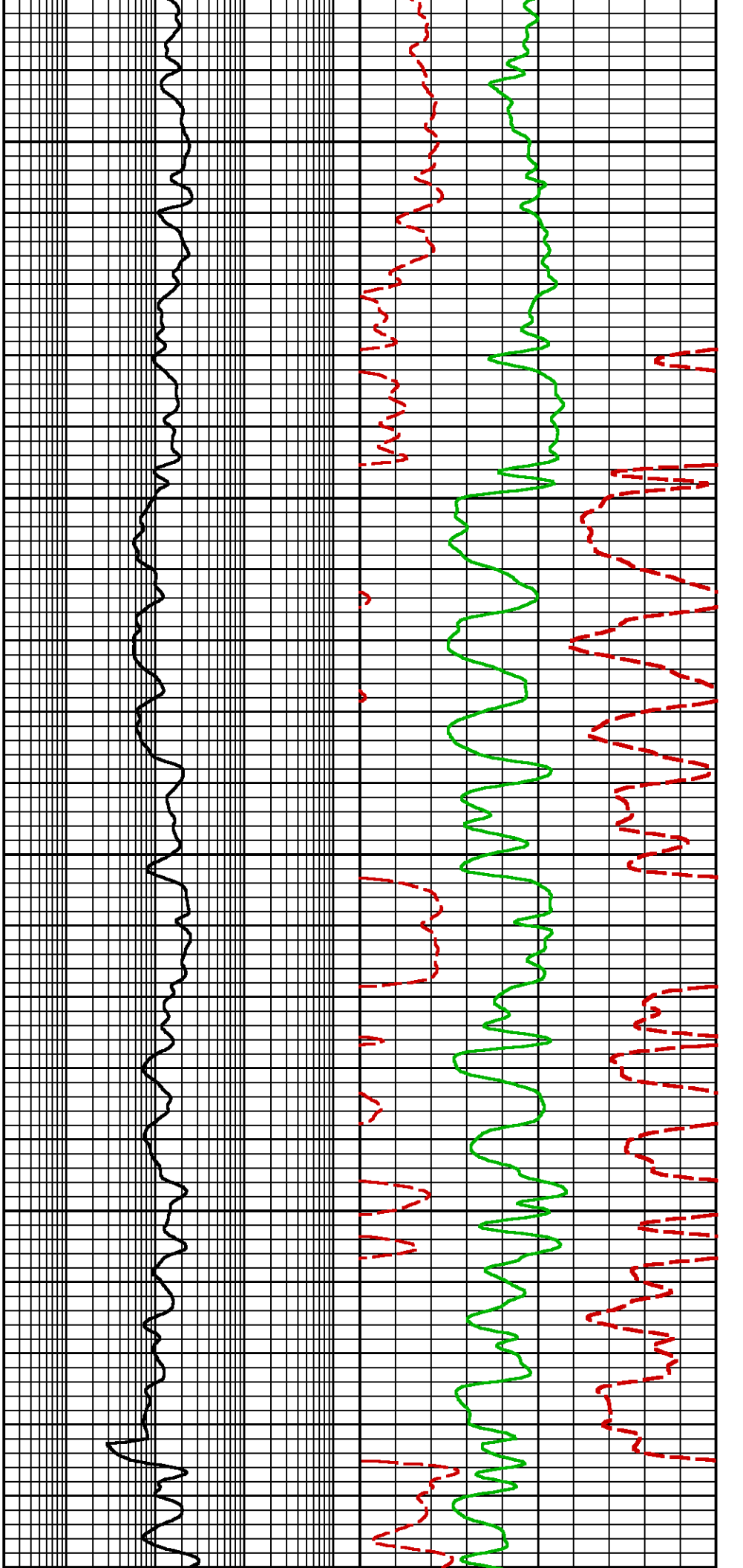
ANY ERRORS IN THE TRAINING WELL OPENHOLE DATA CAN PERETUATE THROUGH AS ERROR IN THE EMULATED RESULTS

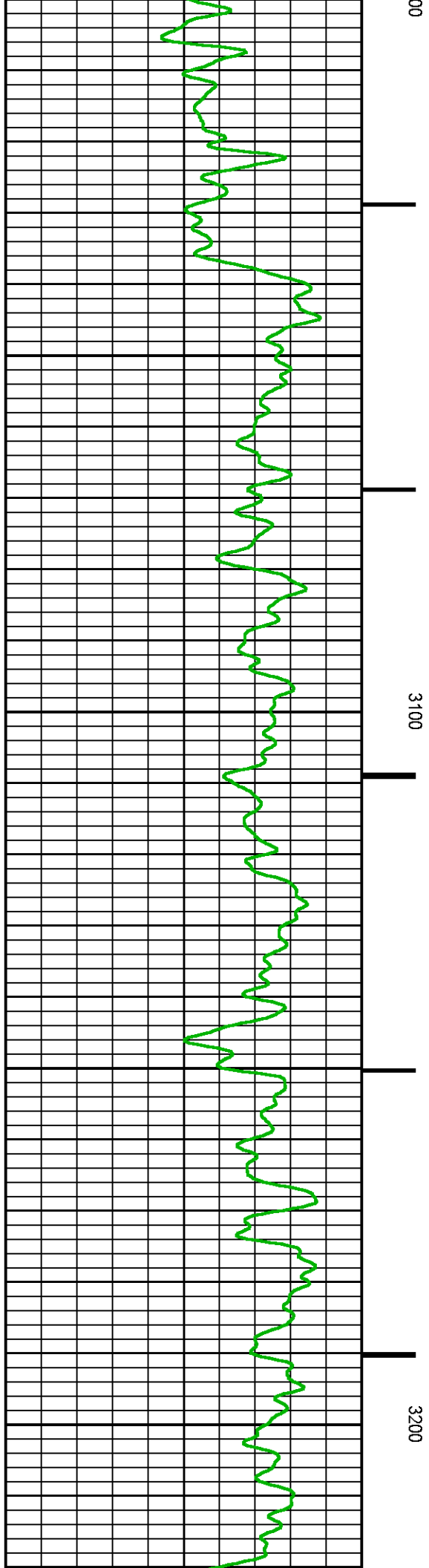
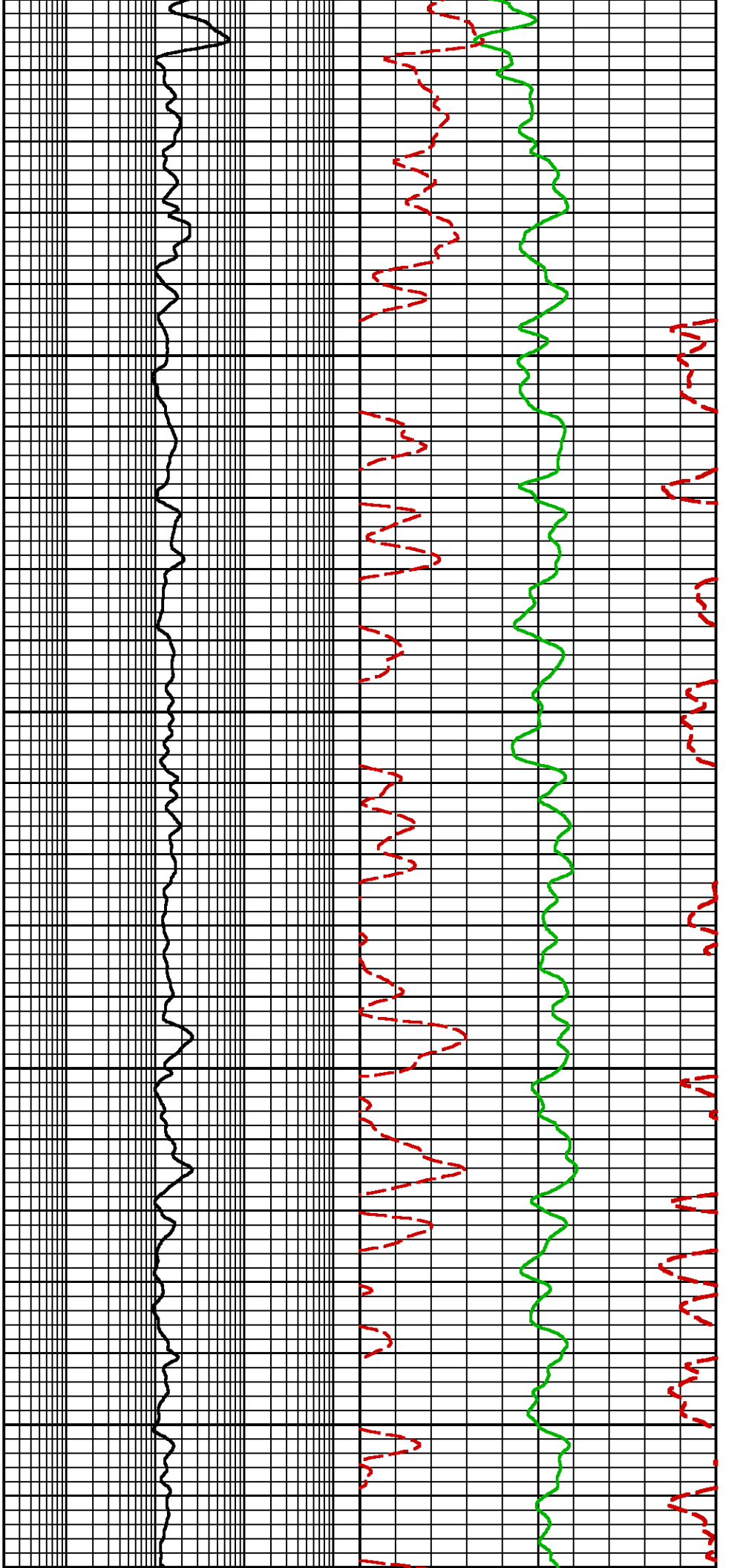
BOND LOG IS DEPTH REFERENCE LOG

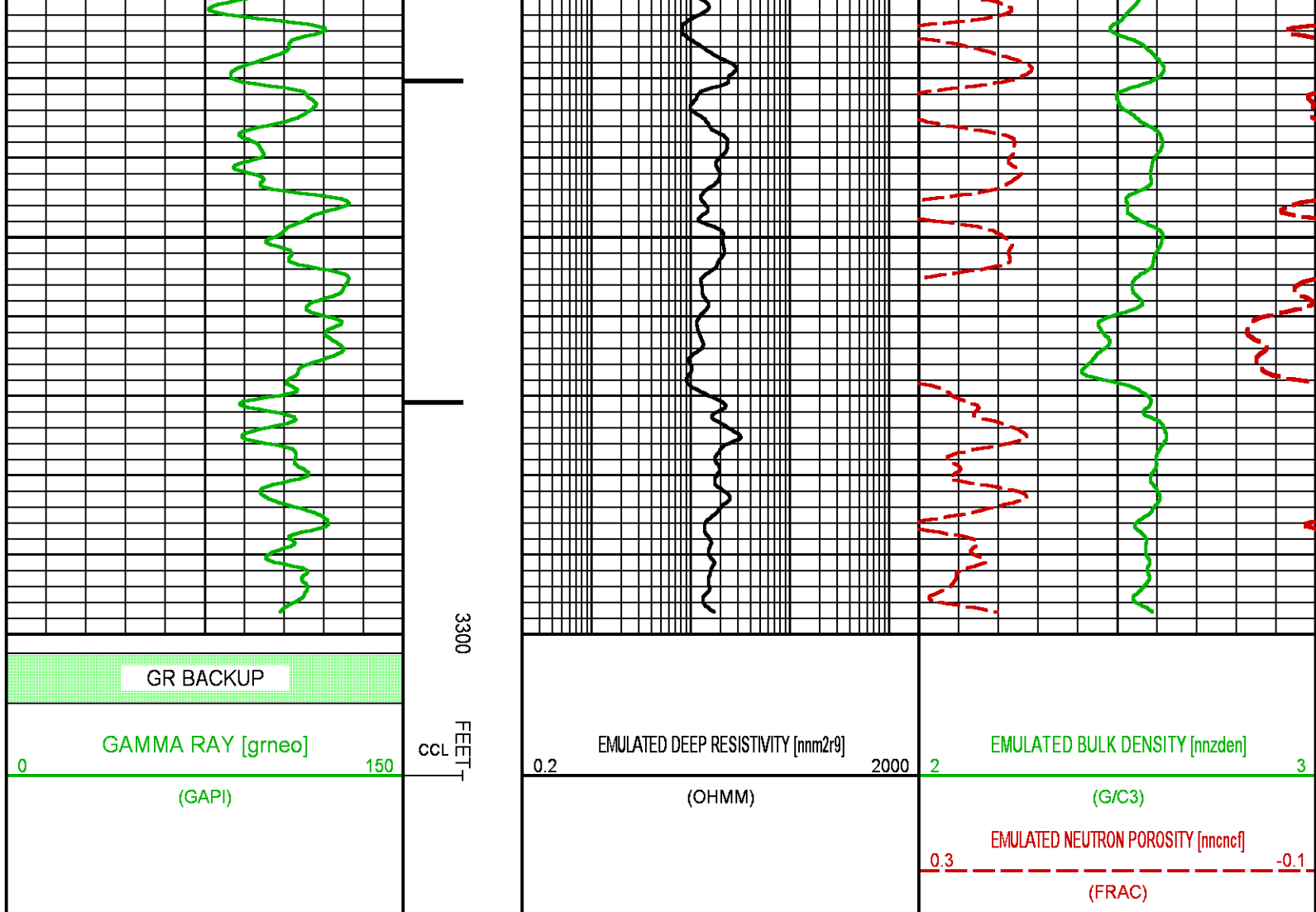
# NEO RESULTS FOR BRUTON 30-20E (G-SAND)

Project : NA  
User : ellskima  
Presentation : BHI3BKZH12:C:\Ape\_Projects\laramie\_bruton\_30\_20e\NEO\_PRESENTATION\_LARAMIE\_G-Sand.pdf [5"/100' Scale]  
Plot Interval : 2678.75 - 3300 Feet  
  
Data File 1 : F1 : BHI3BKZH12:C:\Ape\_Projects\laramie\_bruton\_30\_20e\Merged\_Set\_Final.xtf  
Created On : N/A  
Company : LARAMIE ENERGY LLC  
Well : BRUTON 30-20E  
Field : VEGA  
File Interval : 2678.75 - 8169.75 Feet  
OCT : NA



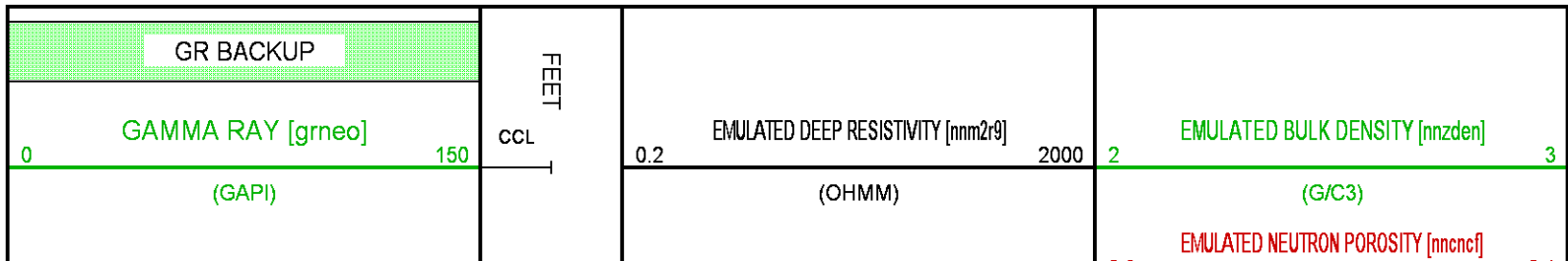


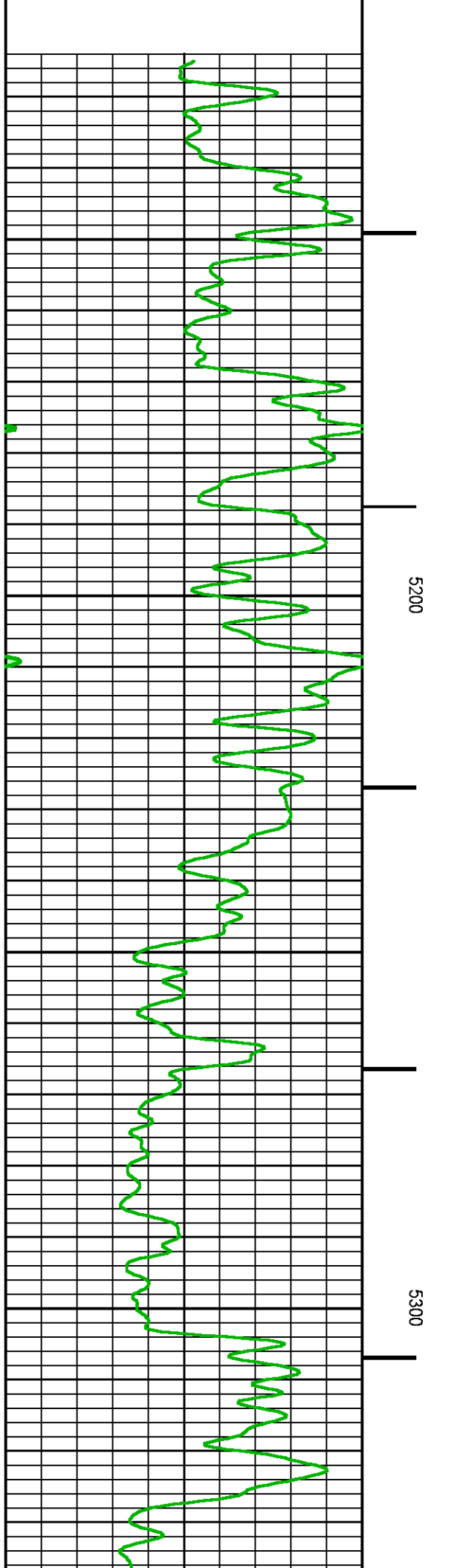
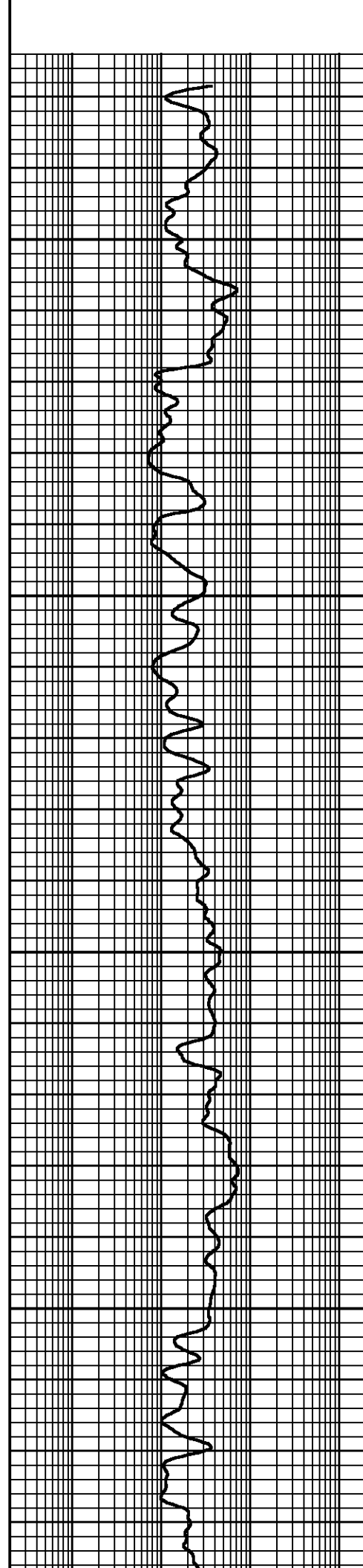
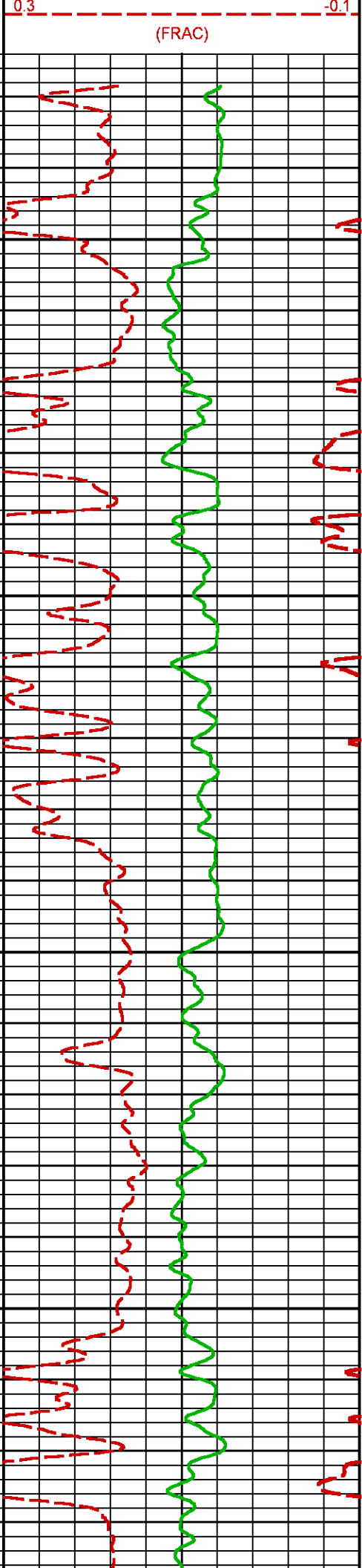


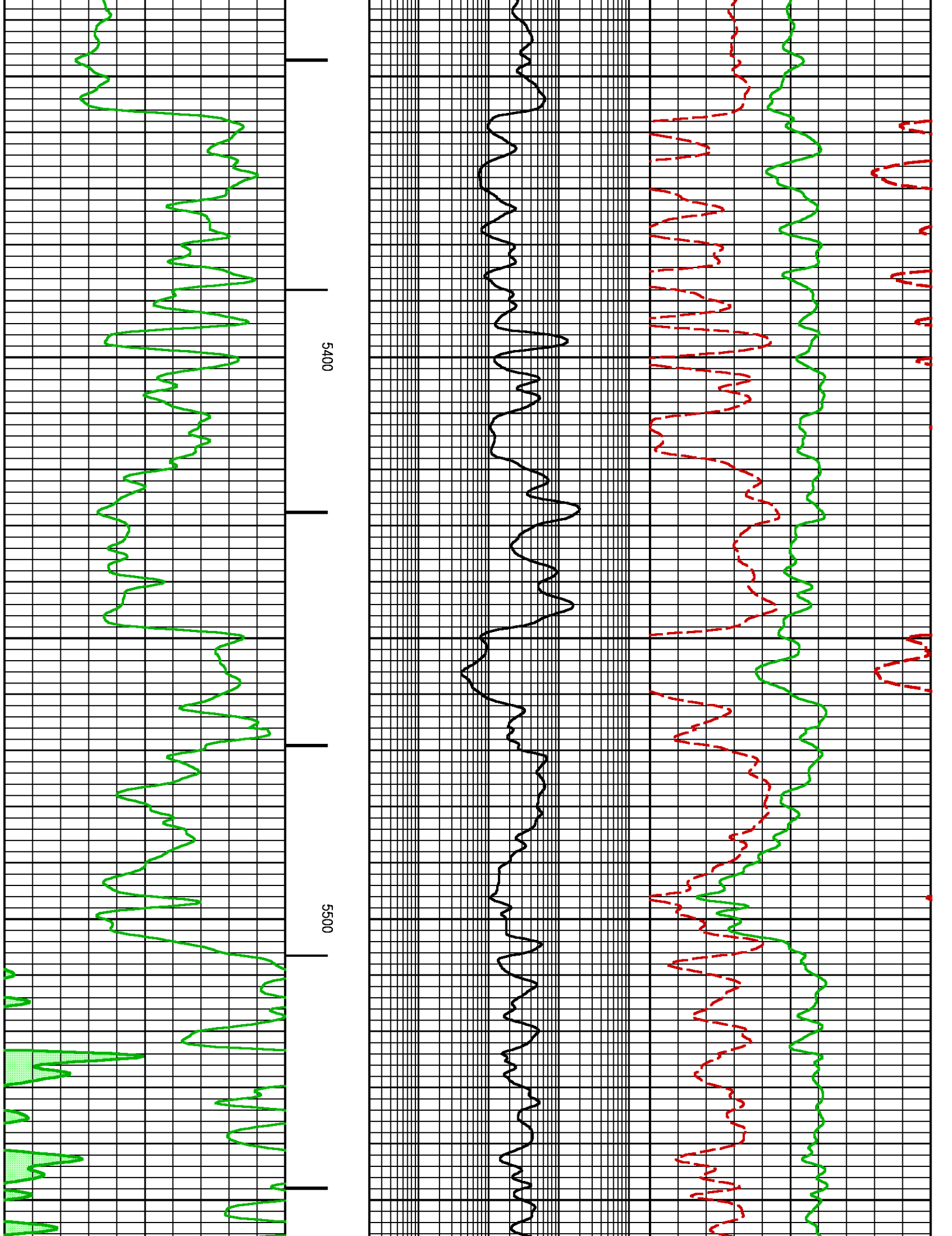


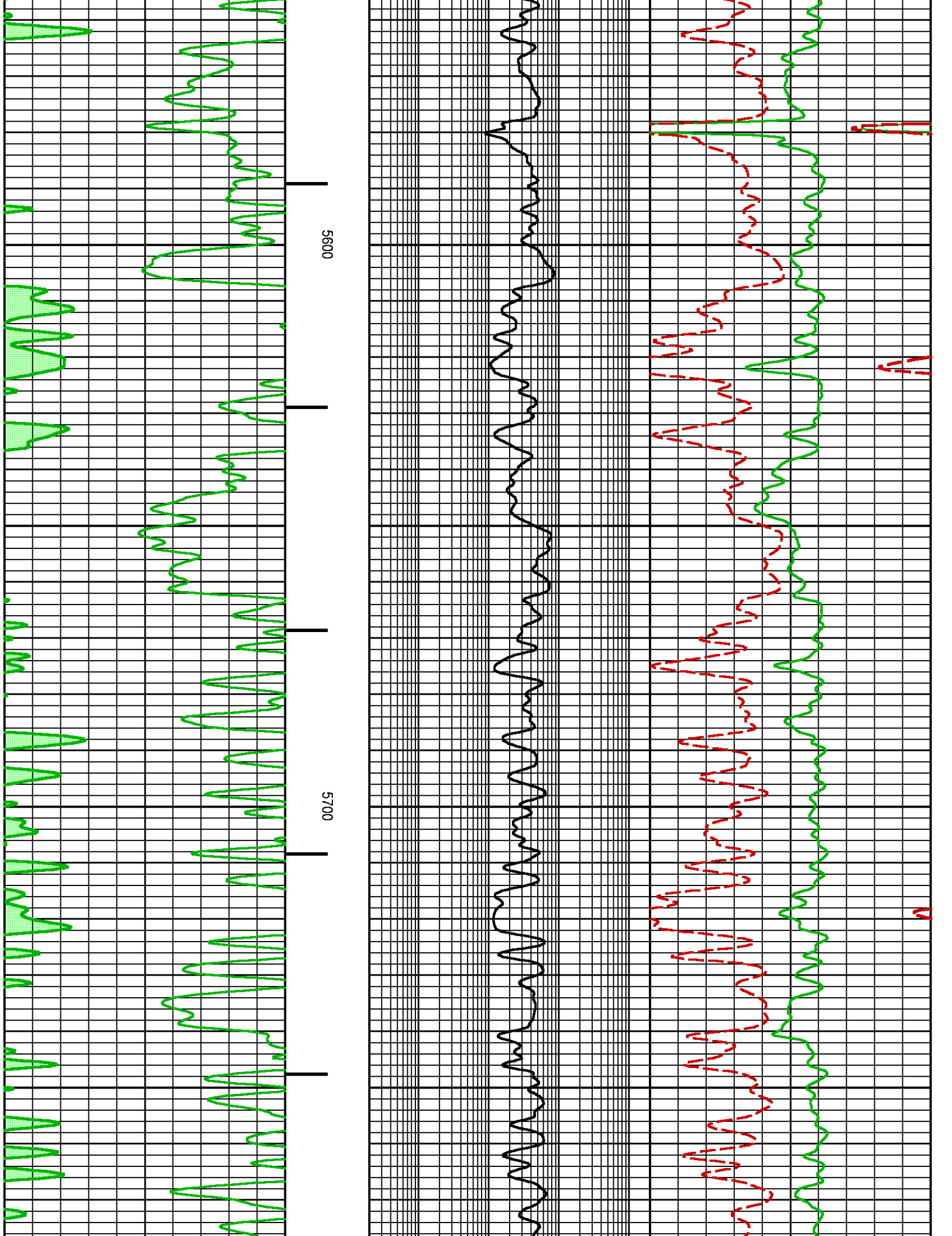
## NEO RESULTS FOR BRUTON 30-20E (MAIN)

**Project** : NA  
**User** : ellskima  
**Presentation** : BHI3BKZH12:C:\Ape\_Projects\laramie\_bruton\_30\_20e\NEO\_PRESENTATION\_LARAMIE\_MAIN.pdf [5"/100" Scale]  
**Plot Interval** : 5125 - 8169.75 Feet  
**Data File 1** : F1 : BHI3BKZH12:C:\Ape\_Projects\laramie\_bruton\_30\_20e\Merged\_Set\_Final.xtf  
**Created On** : N/A  
**Company** : LARAMIE ENERGY LLC  
**Well** : BRUTON 30-20E  
**Field** : VEGA  
**File Interval** : 2678.75 - 8169.75 Feet  
**OCT** : NA

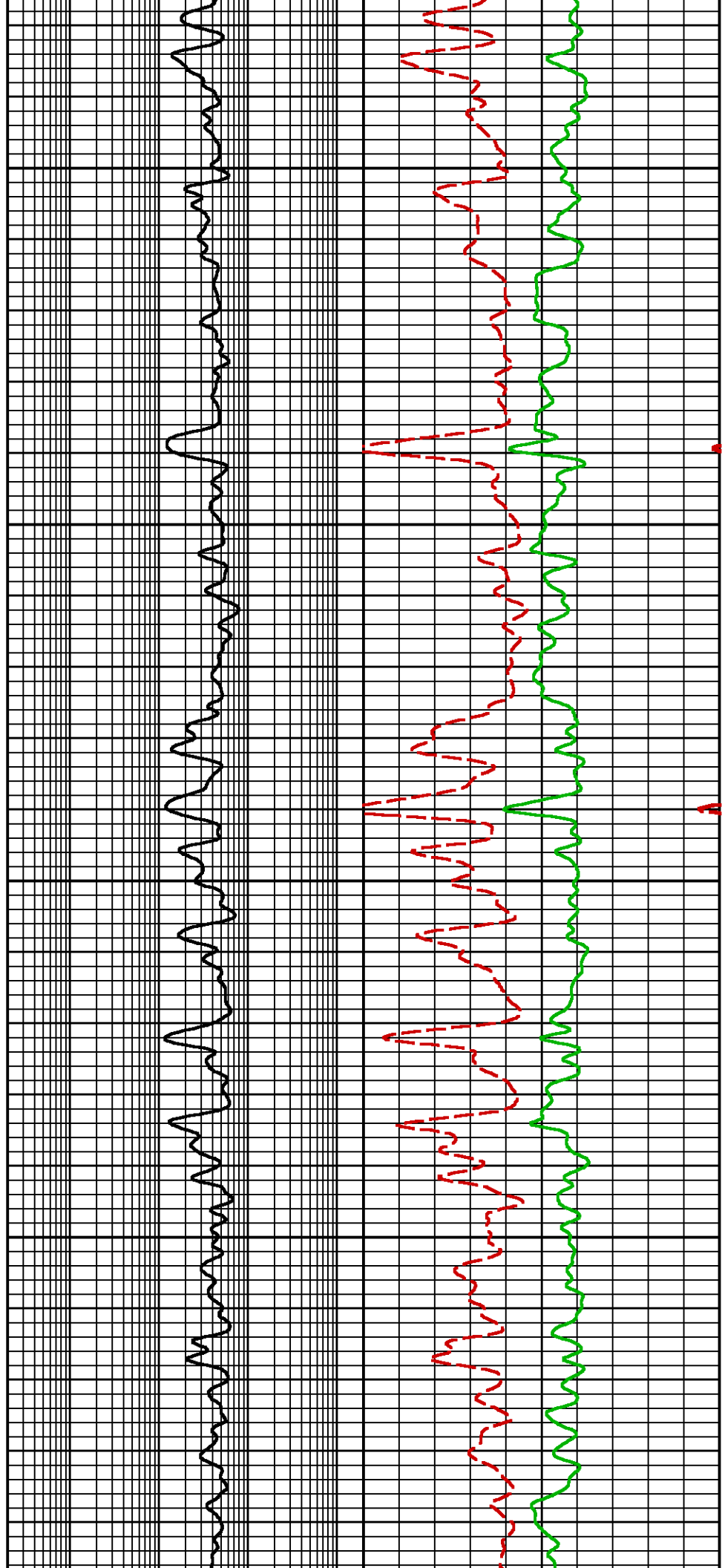
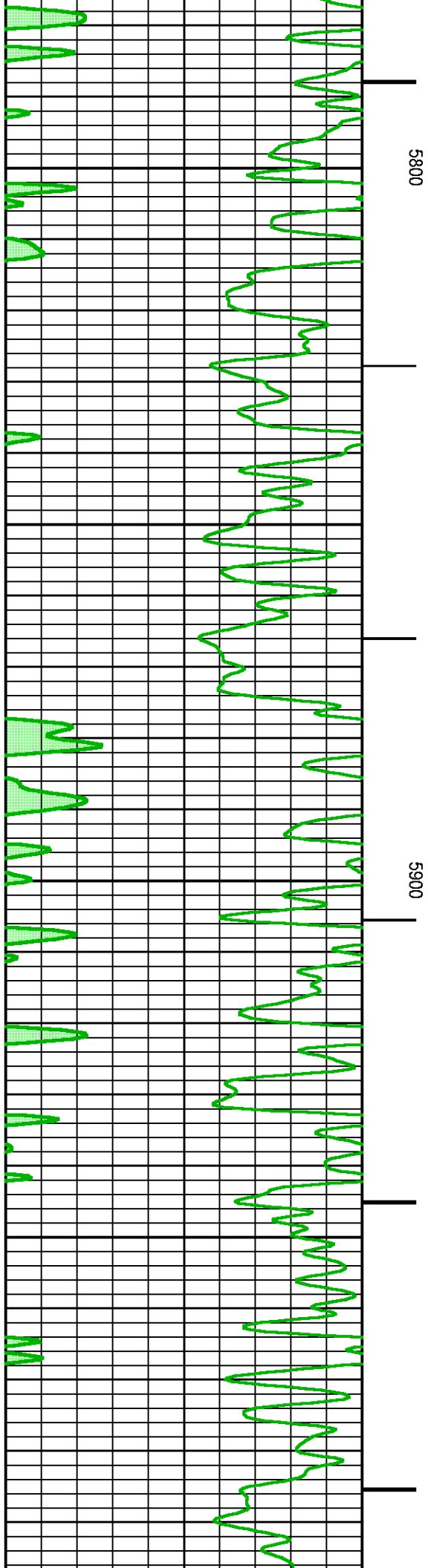


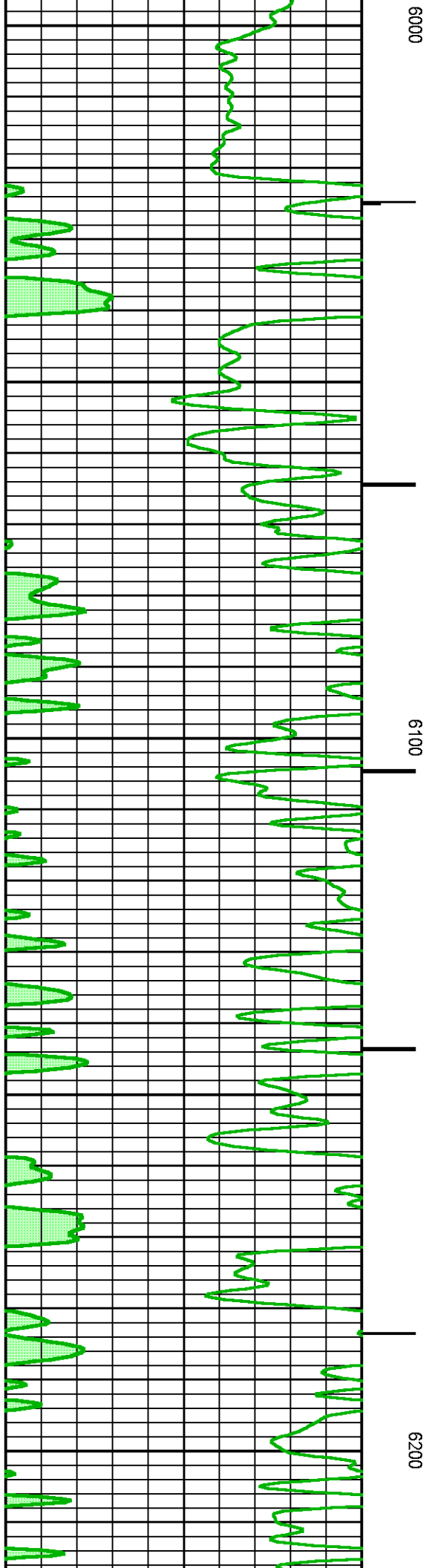
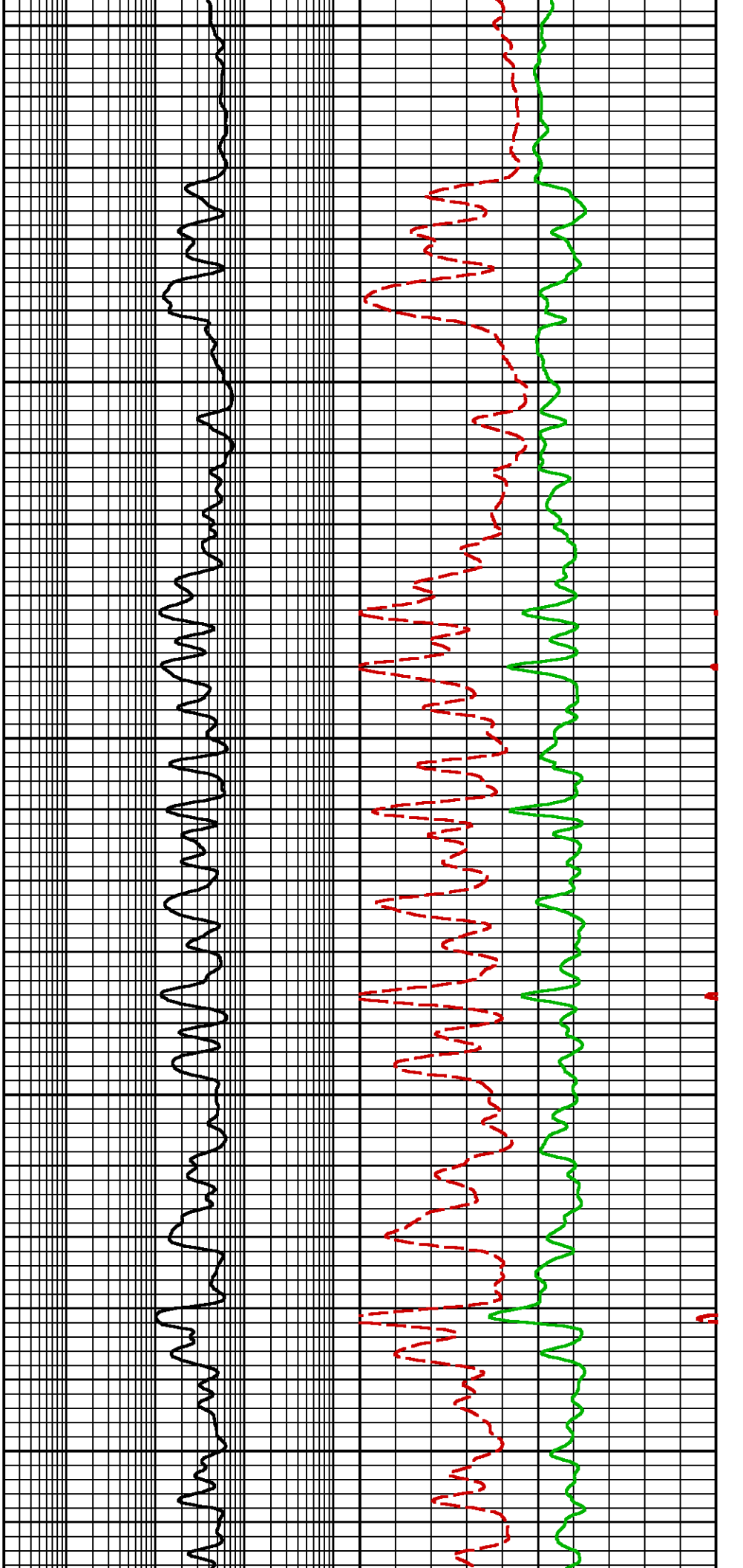


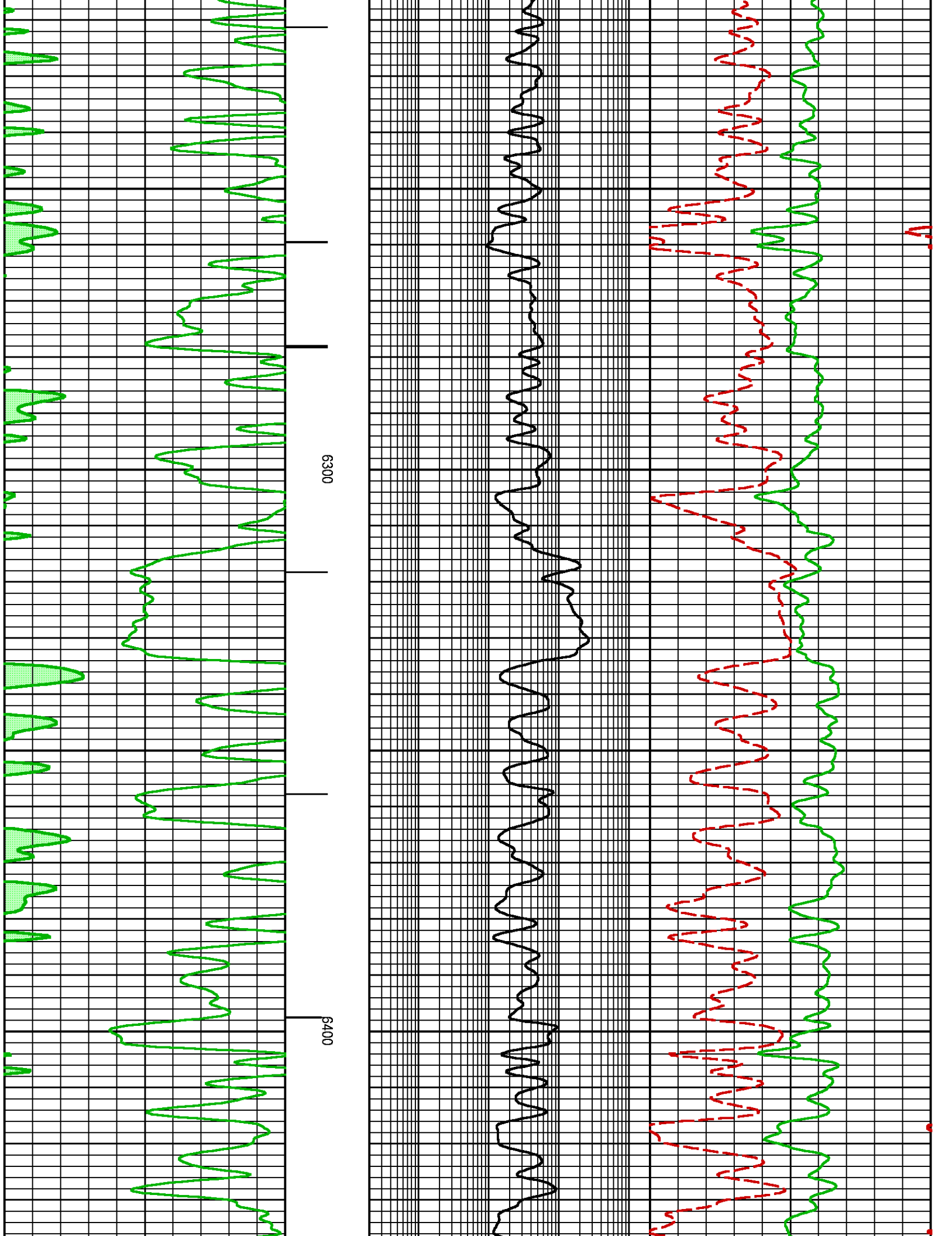


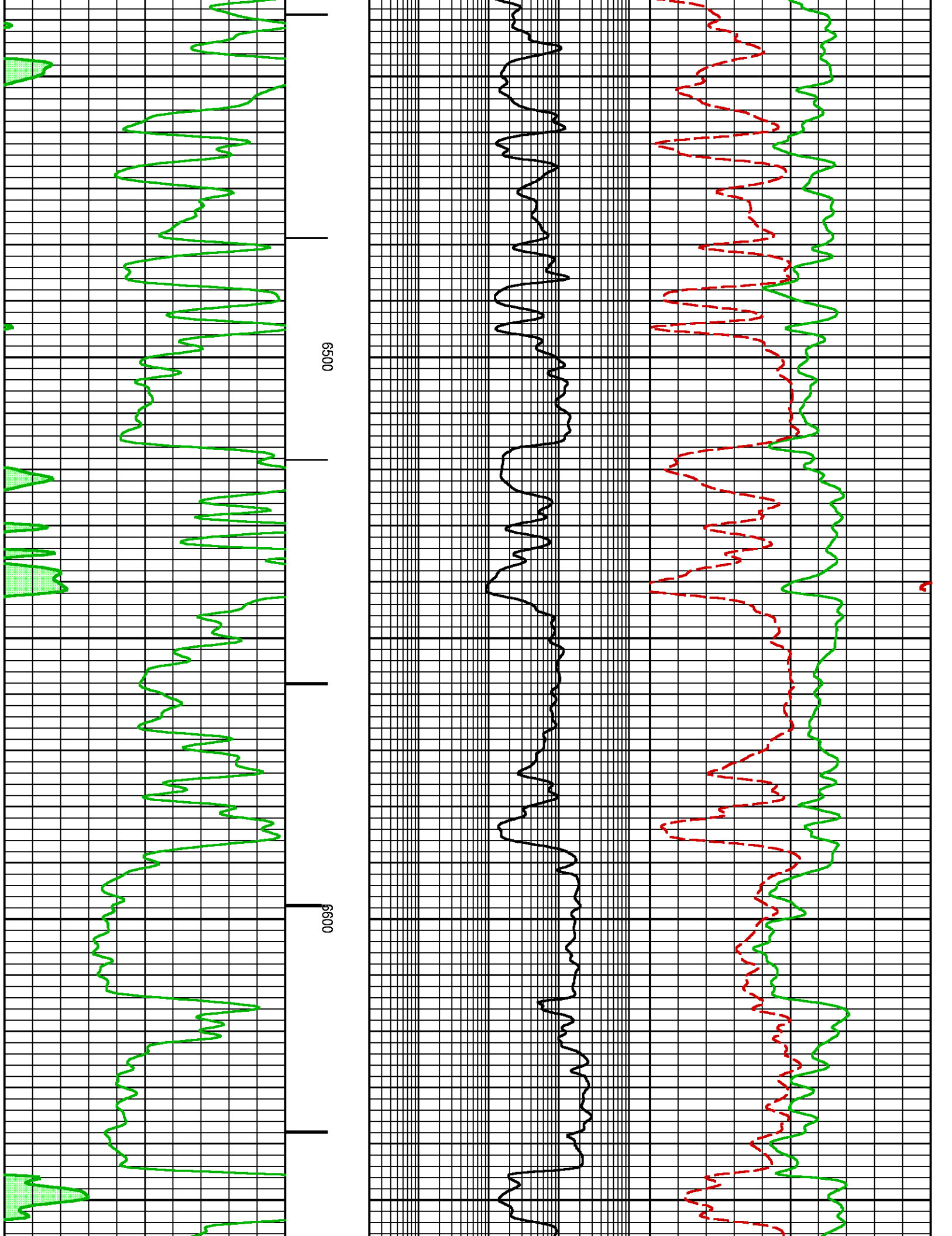


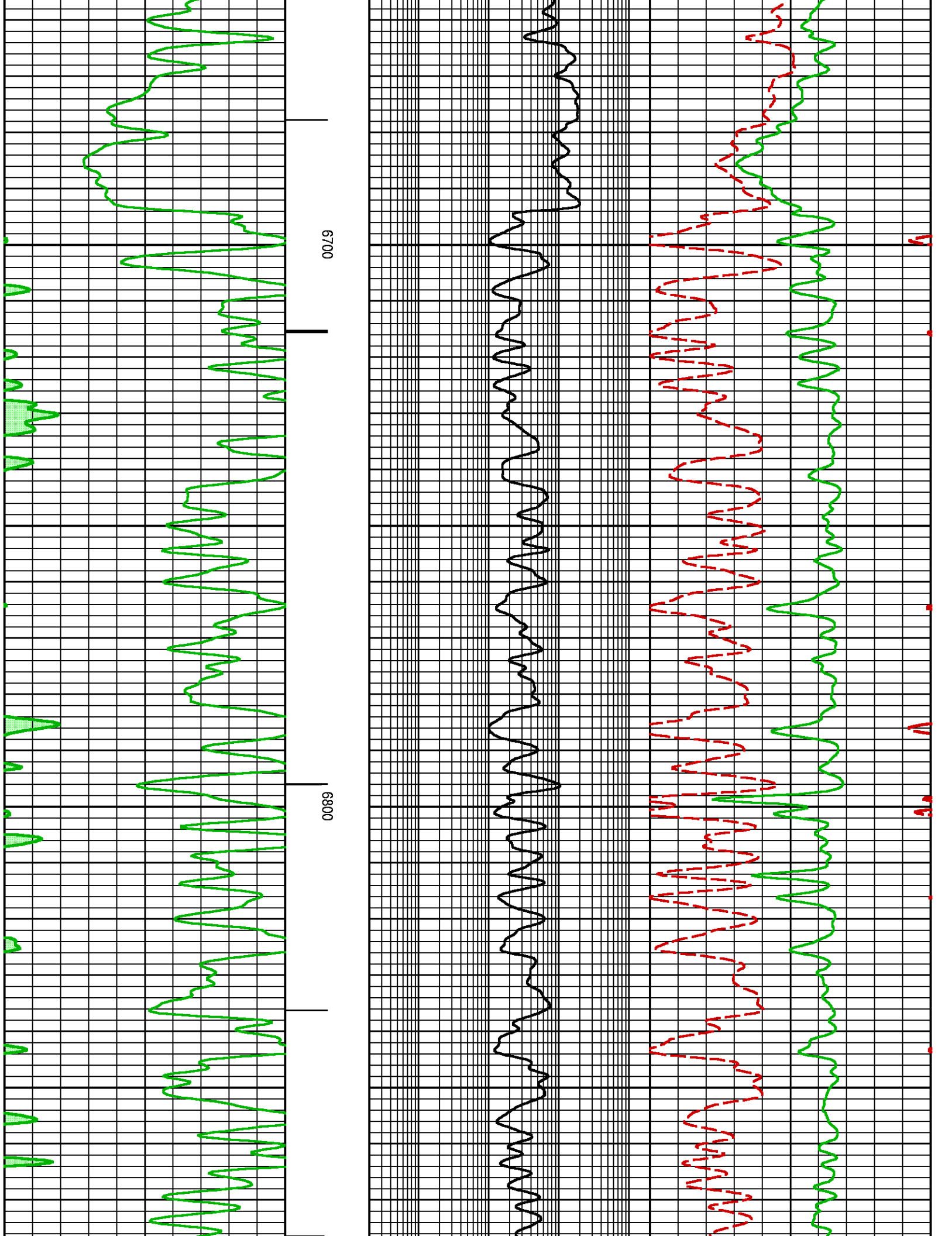


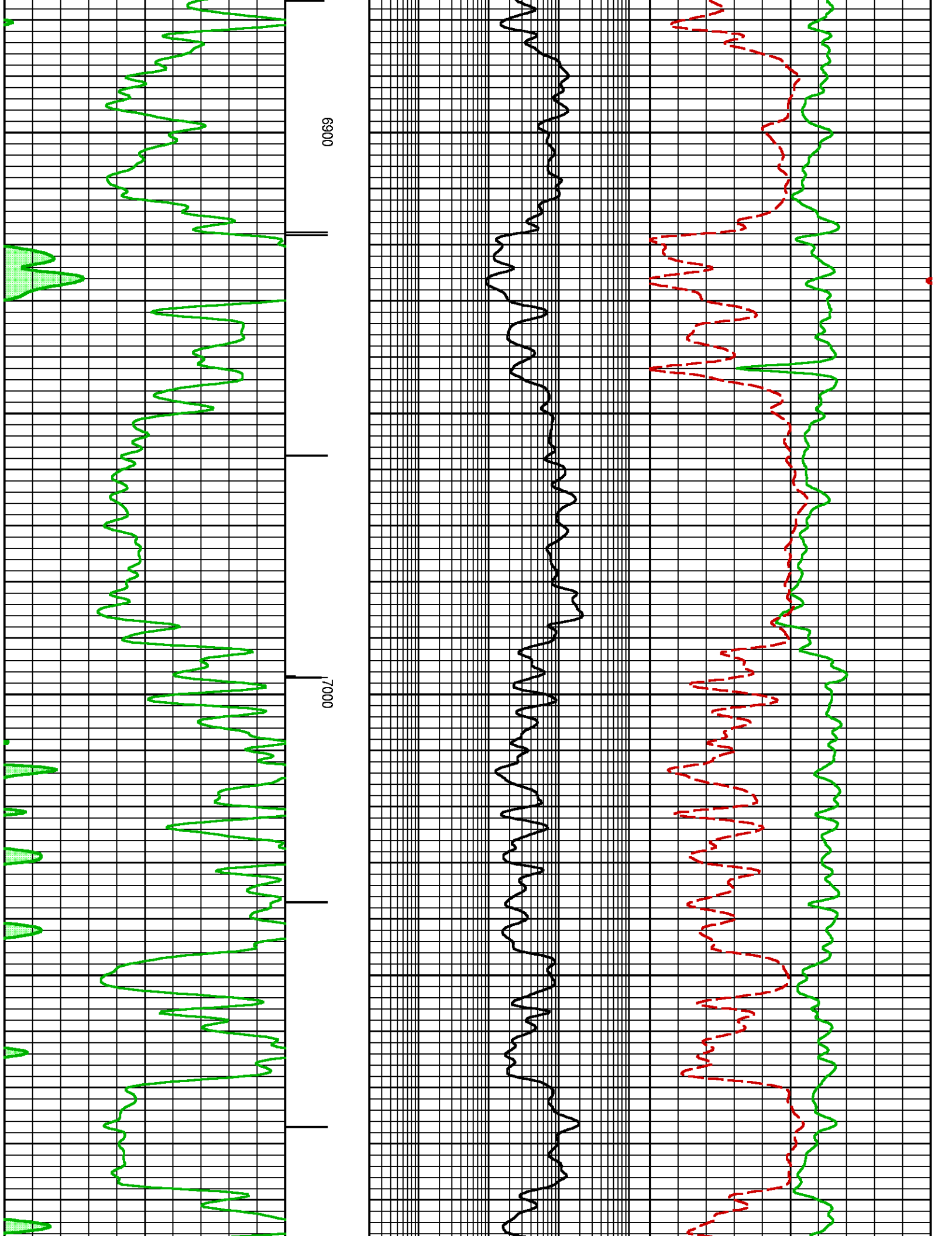


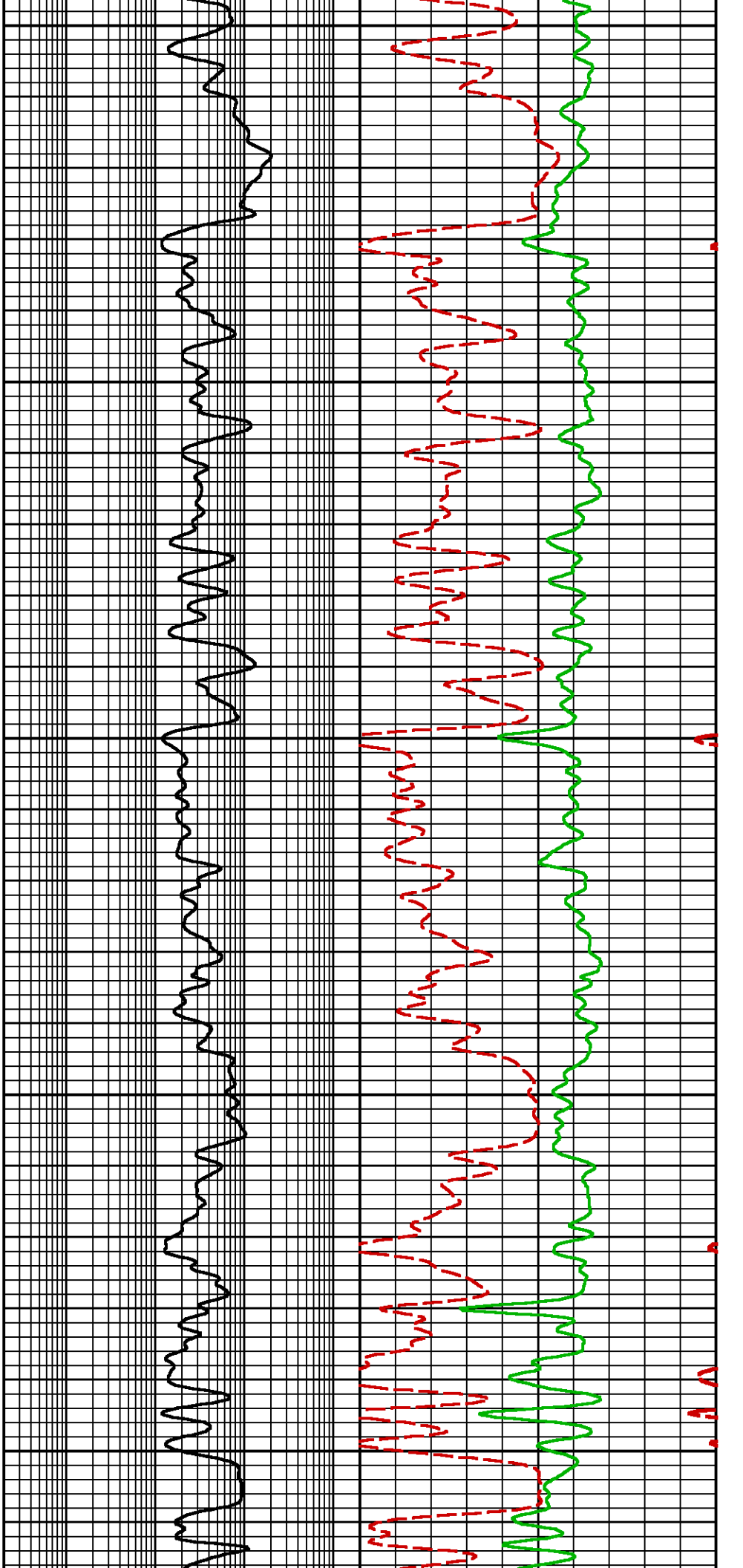








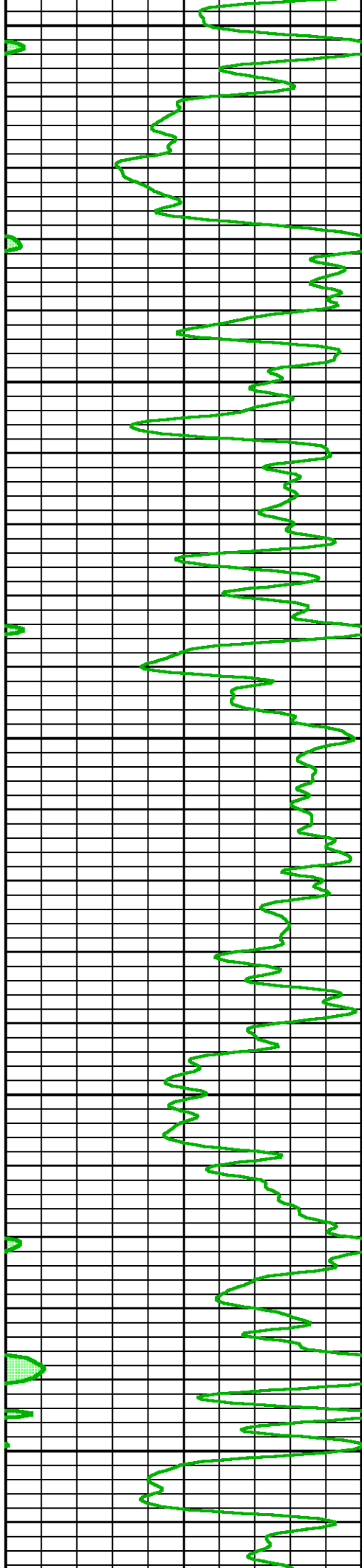


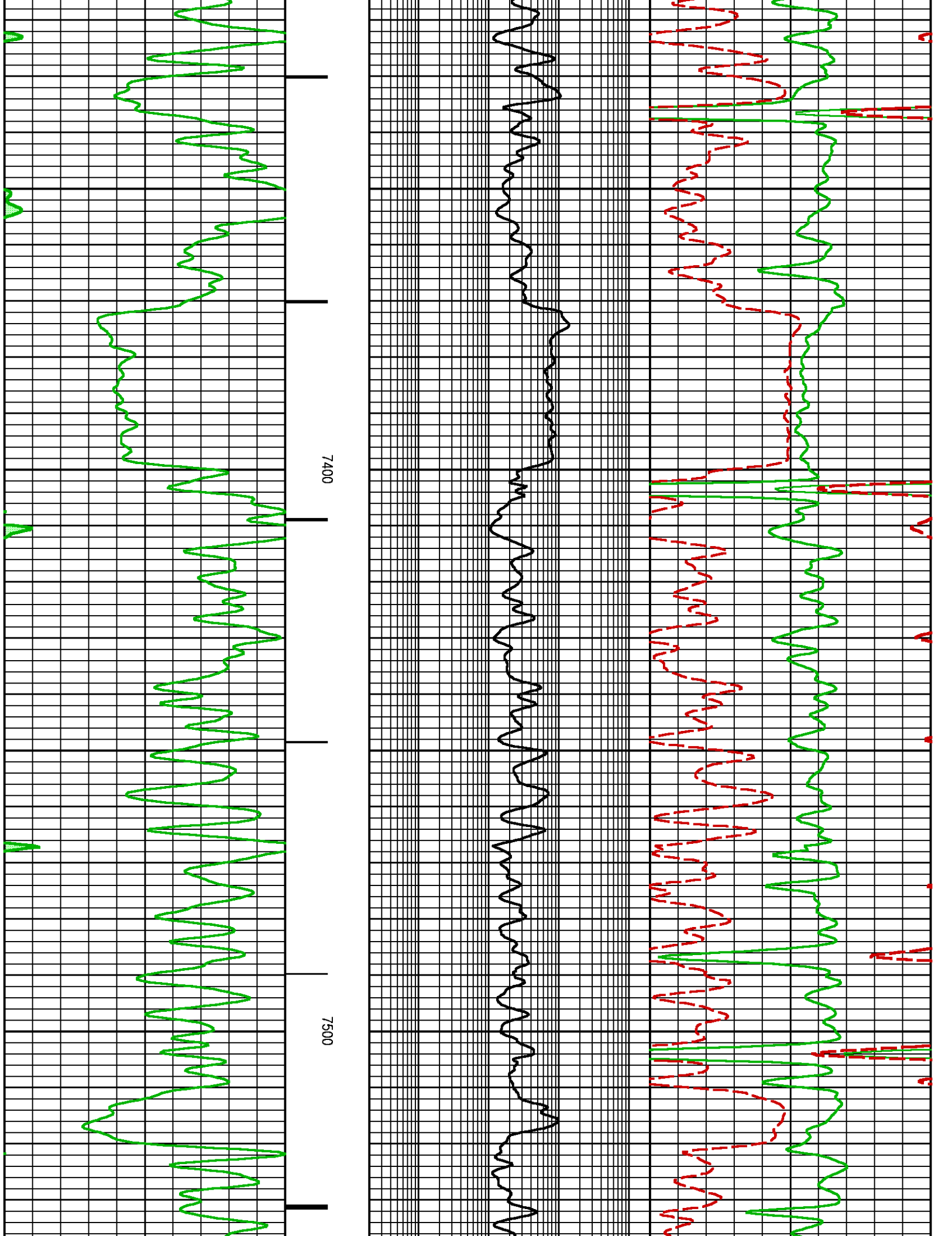


7100

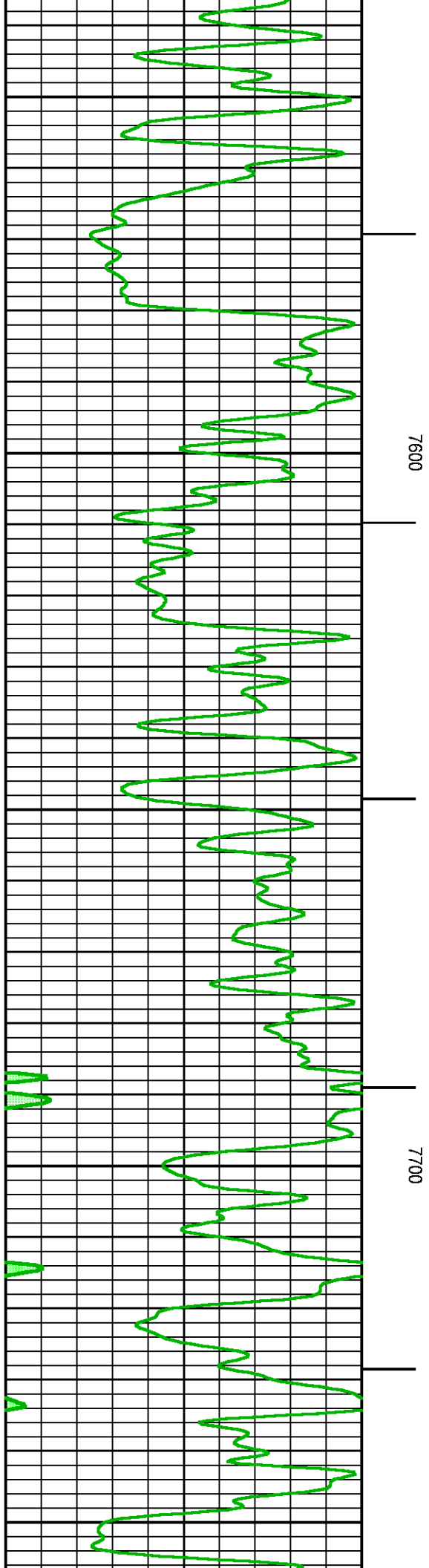
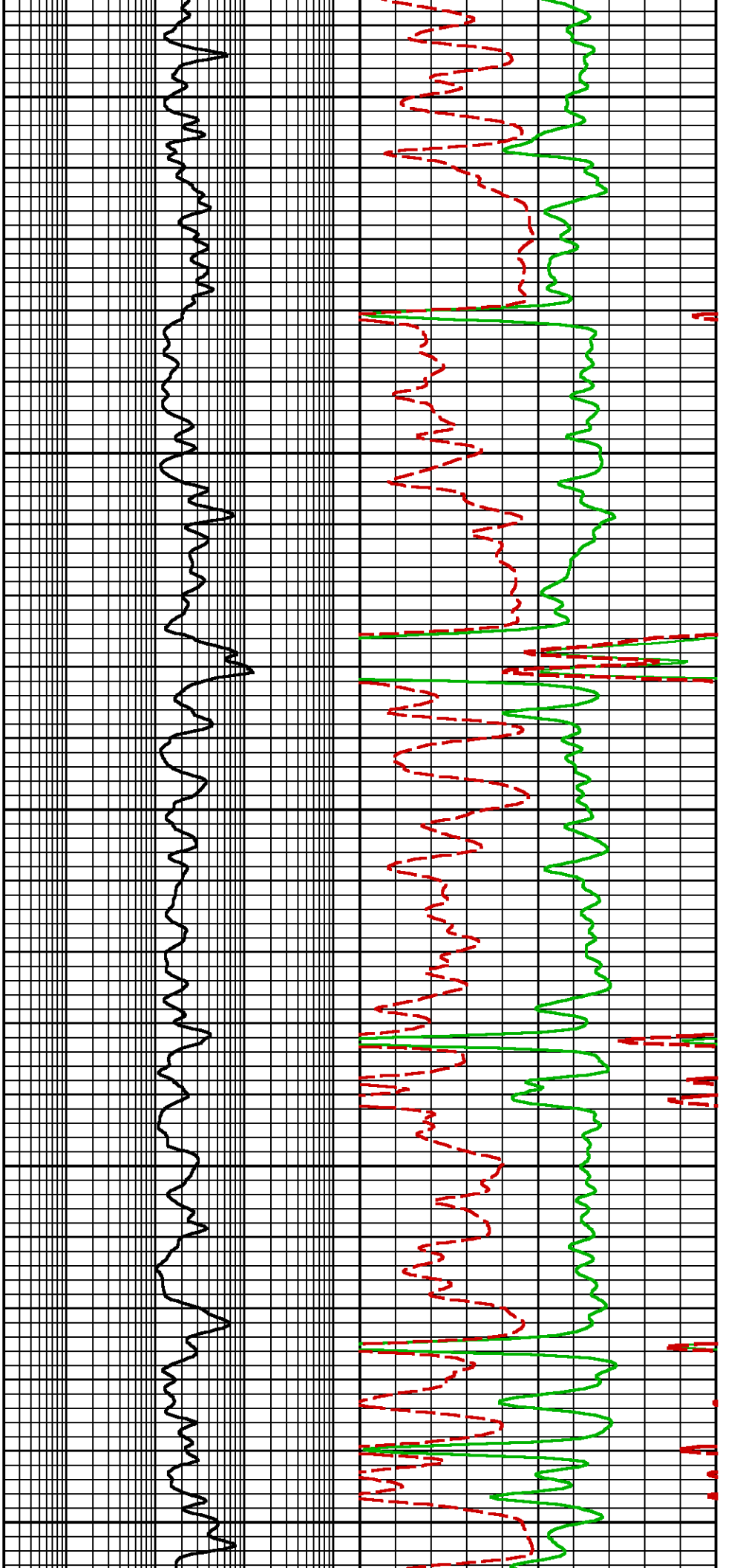
7200

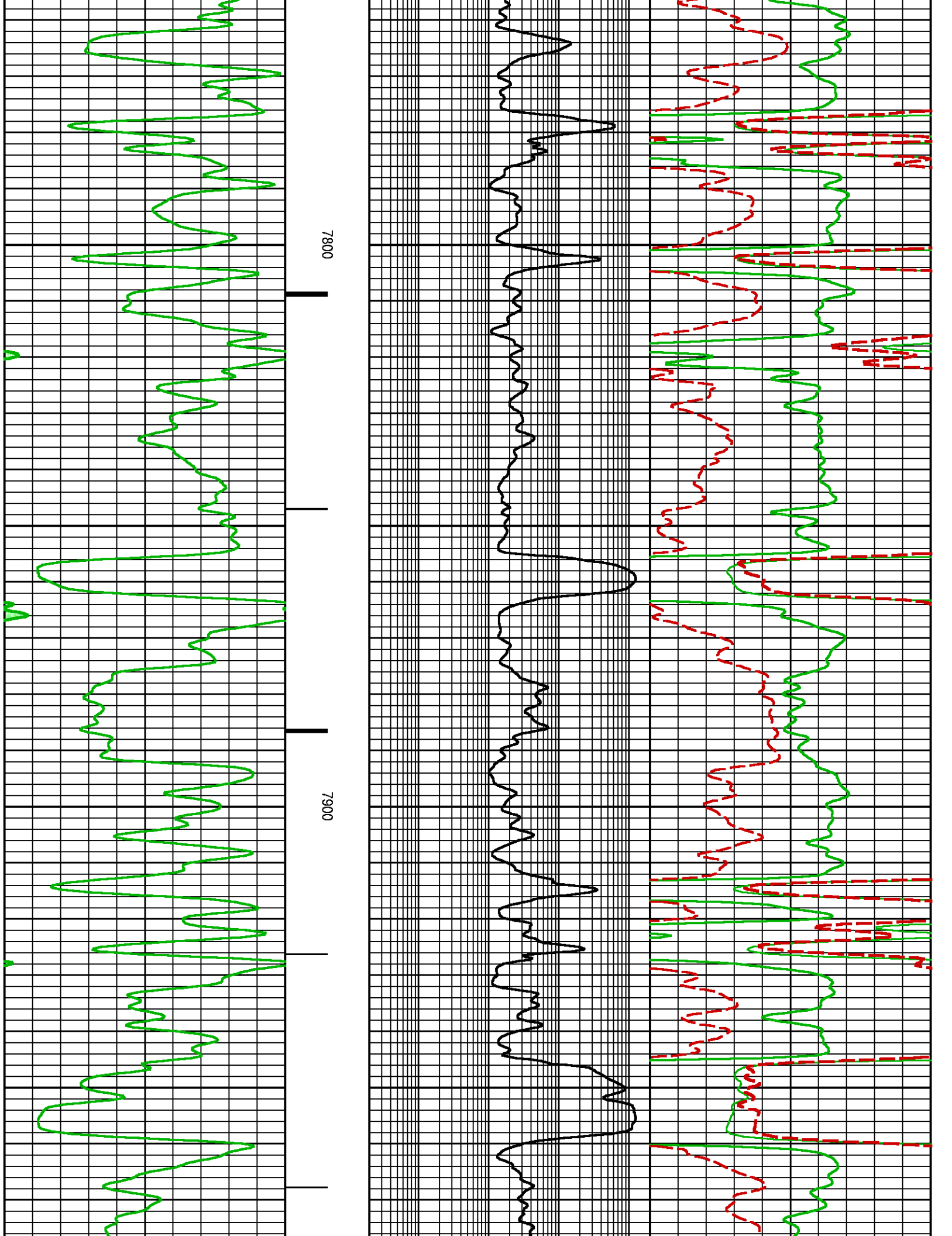
7300

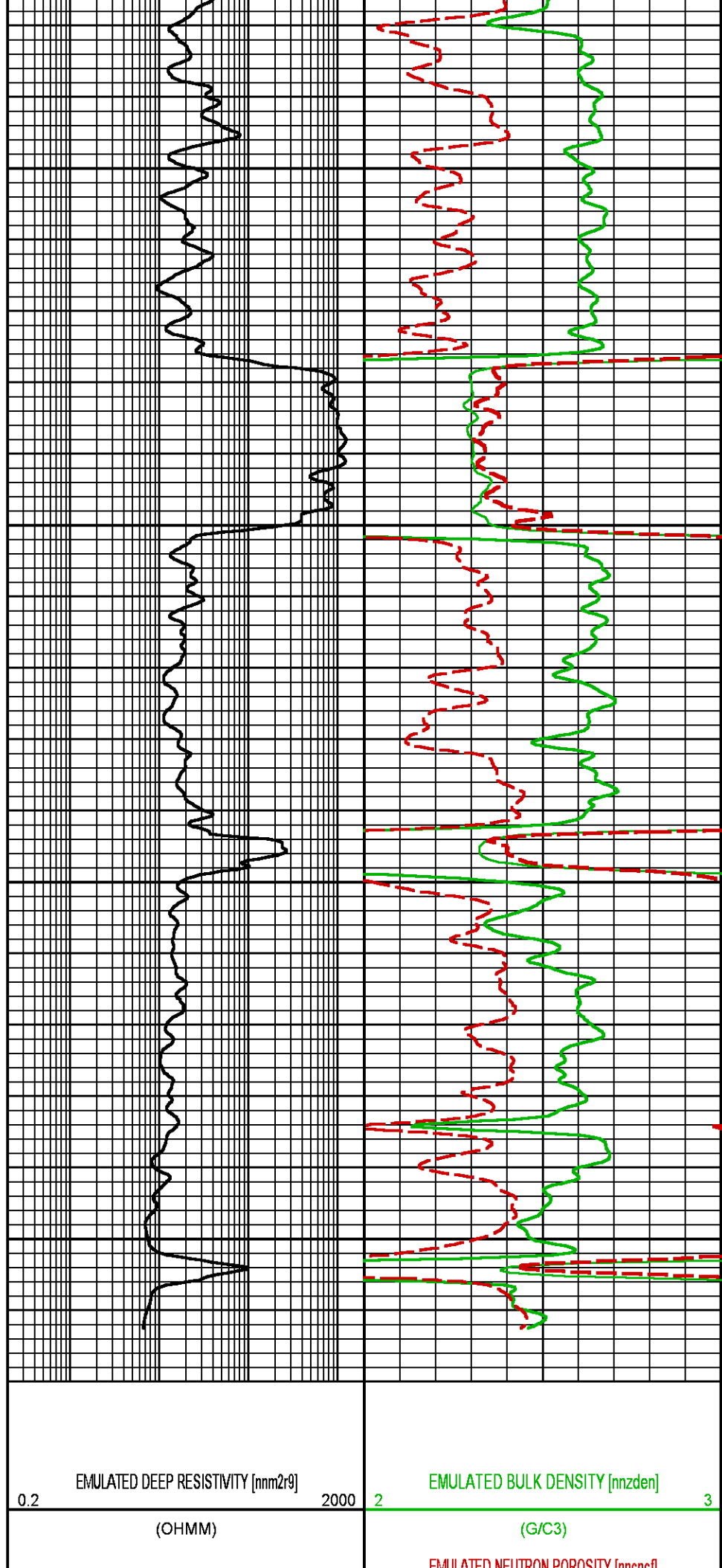
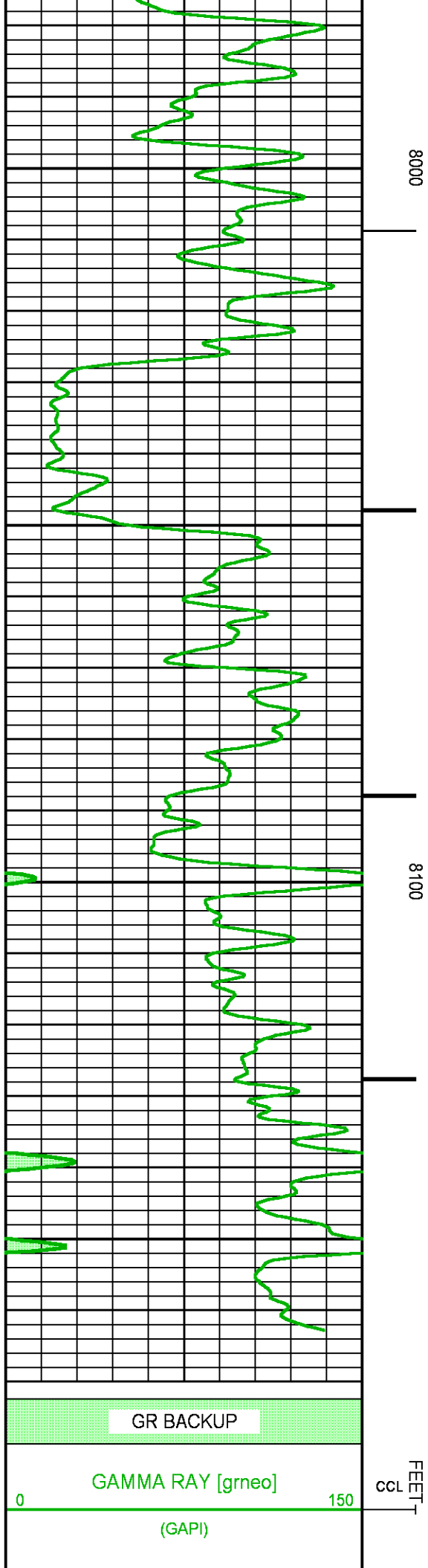





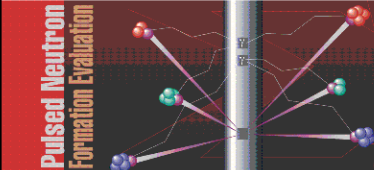








			0.3	EMBEDDED NEUTRON SOURCE (inches)	-0.1
				(FRAC)	

 	<b>COMPANY</b> <u>LARAMIE ENERGY</u> <b>WELL</b> <u>BRUTON FEDERAL 30-20E</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>05-077-10467-0000</u>
	<b>LOCATION:</b> <u>SEE REMARKS</u>	<b>ELEVATIONS:</b> KB <u>7673 FT</u> DF _____ GL <u>7643 FT</u>
	<b>SEC</b> <u>30</u> <b>TWP</b> <u>9S</u> <b>RGE</b> <u>93W</u>	<b>DATE</b> <u>10-APR-2018</u>