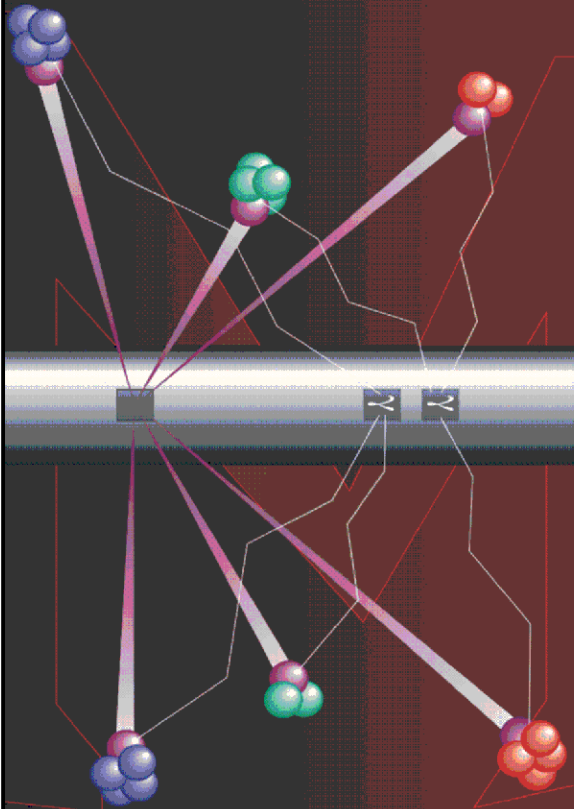


Pulsed Neutron Formation Evaluation



RESERVOIR PERFORMANCE MONITOR NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY

WELL BRUTON 19-03E

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS

SEC 19 TWP 9S RGE 93W

ELEVATIONS:

KB 7286 FT DF 7286 FT GL 7262 FT

DATE 2-NOV-2017 ECC 29193.01

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>2-NOV-2017</u>
FIELD DATA	LOCATION: <u>WOODWARD</u>	ENGINEER: <u>S. YASSA</u>	DATE: <u>28-OCT-2017</u>

FROM	TO								
<u>2540 FT</u>	<u>8315 FT</u>								

REMARKS

LOCATION: SHL: LAT: 39.262850N LONG: 107.815110W
BHL: LAT: 39.267819N LONG: 107.806885W

TRAINING WELL:
BRUTON 19-07W

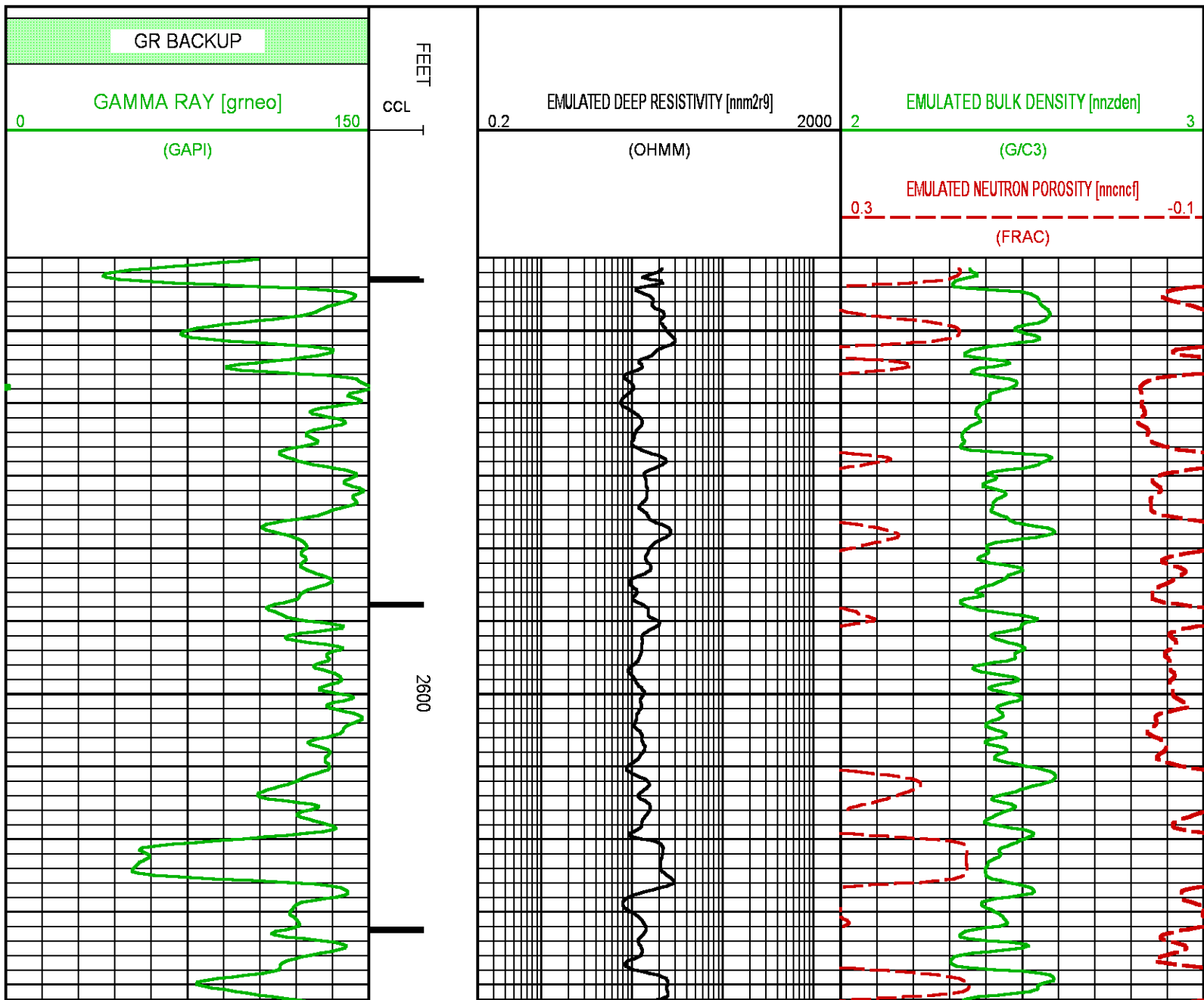
ANY ERRORS IN THE TRAINING WELL OPENHOLE DATA CAN PERETUATE THROUGH AS ERROR IN THE EMULATED RESULTS

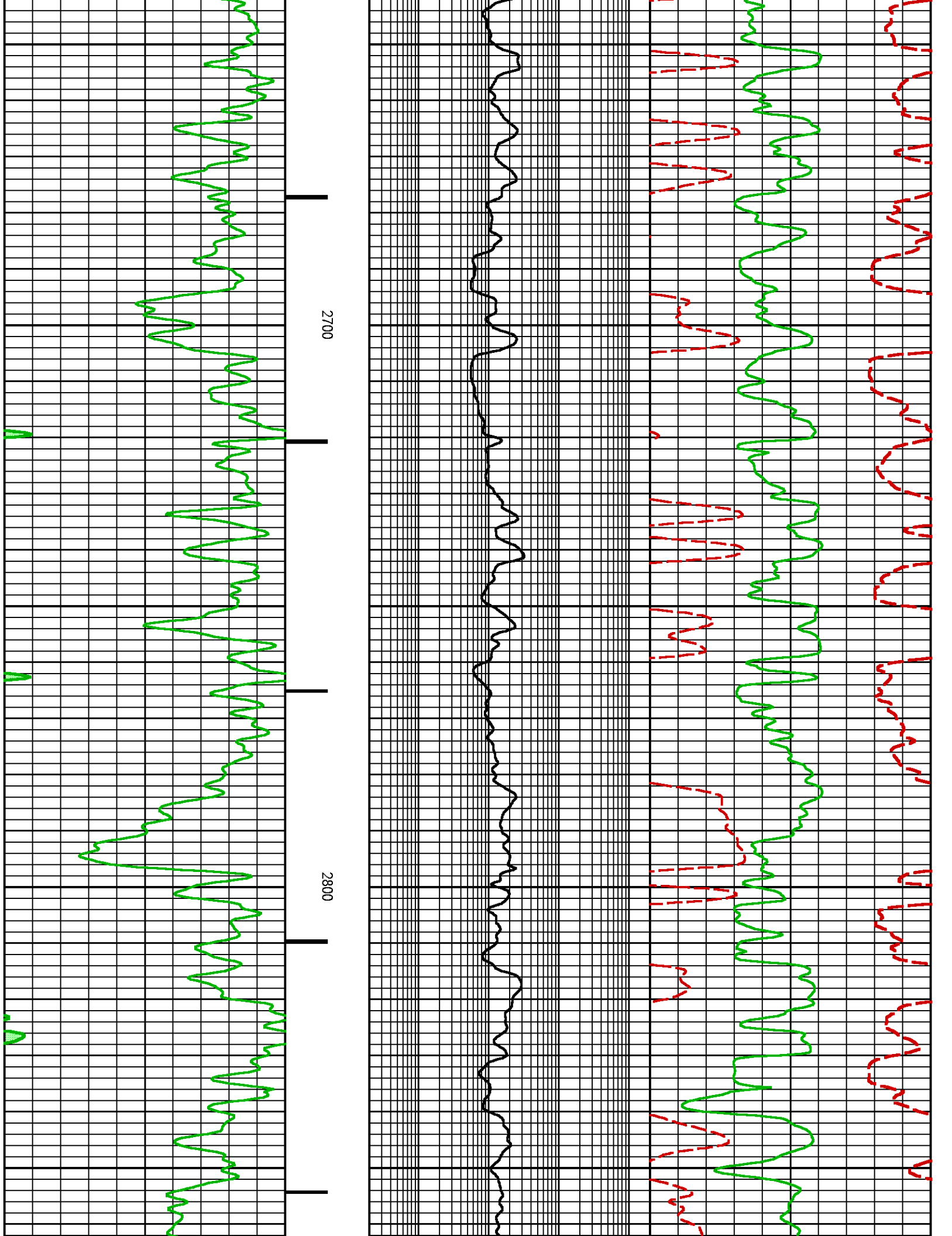
BOND LOG IS DEPTH REFERENCE LOG

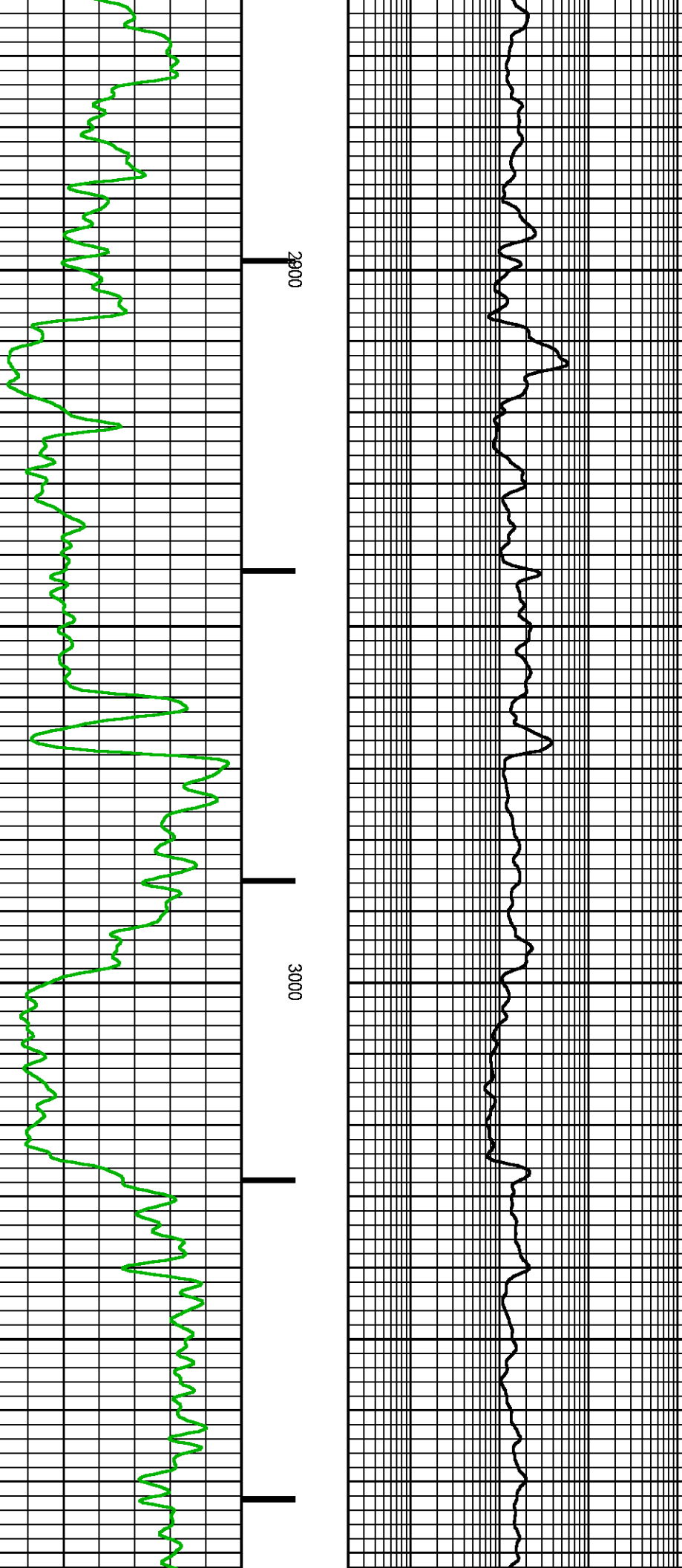
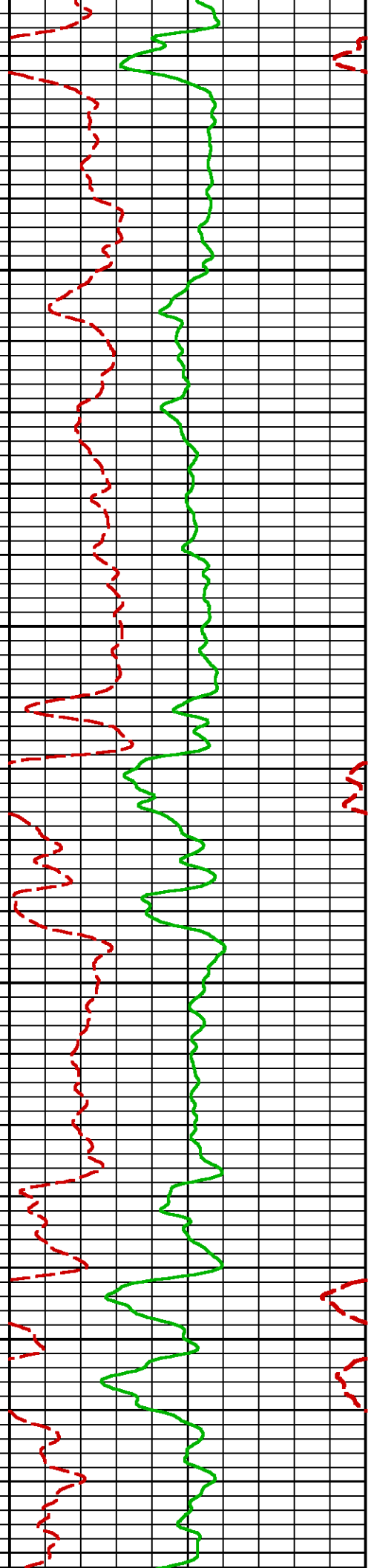
NEO RESULTS FOR BRUTON 19-03E (G-SAND)

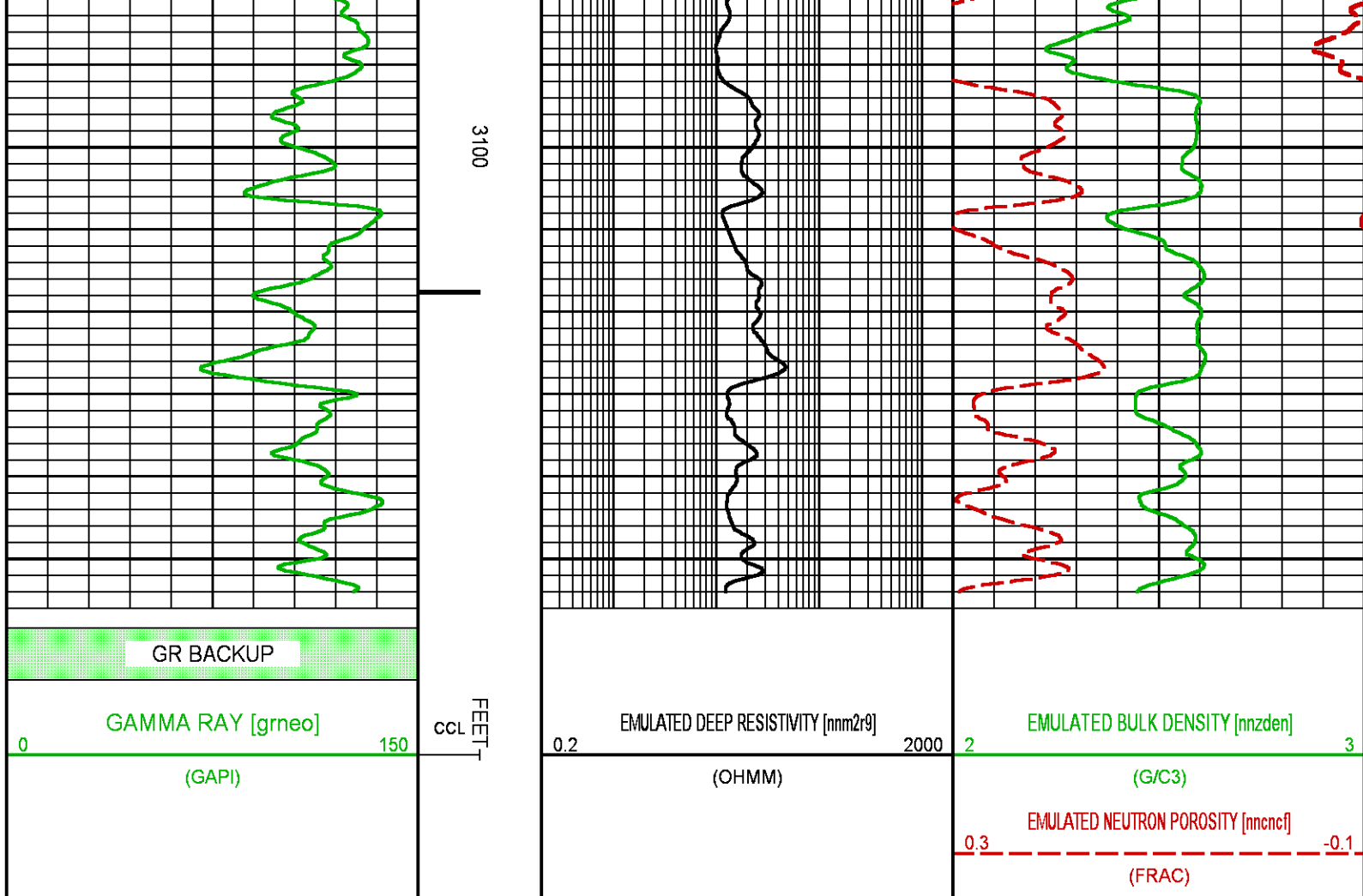
Project : NA
User : ellskima
Presentation : BHI3BKZH12:C:\Ape_Projects\laramie_bruton_19_03e\NEO_PRESENTATION_LARAMIE_G-Sand.pdf [5"/100' Scale]
Plot Interval : 2540.25 - 3155 Feet

Data File 1 : F1 : BHI3BKZH12:C:\Ape_Projects\laramie_bruton_19_03e\Merged_Set_Final.xtf
Created On : N/A
Company : LARAMIE ENERGY
Well : BRUTON 19-03E
Field : VEGA
File Interval : 2540.25 - 8313.25 Feet
OCT : NA



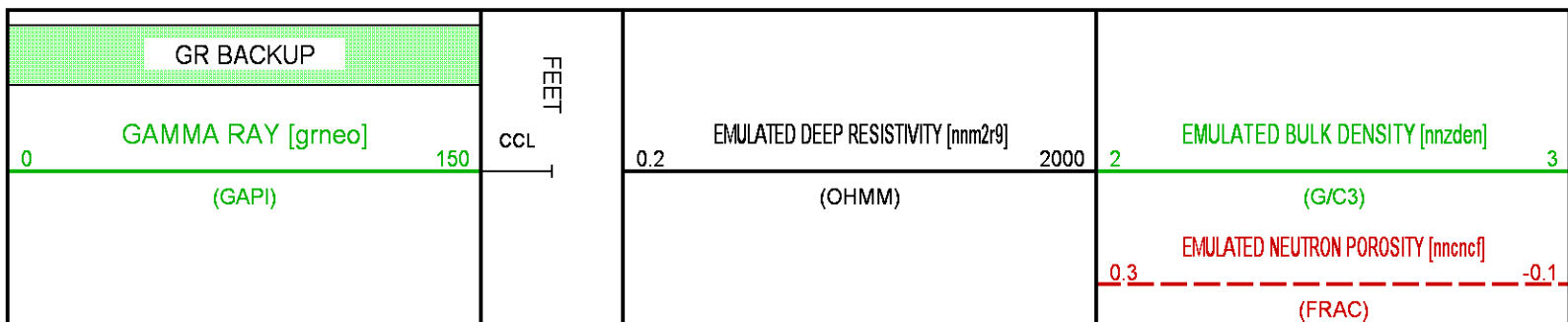


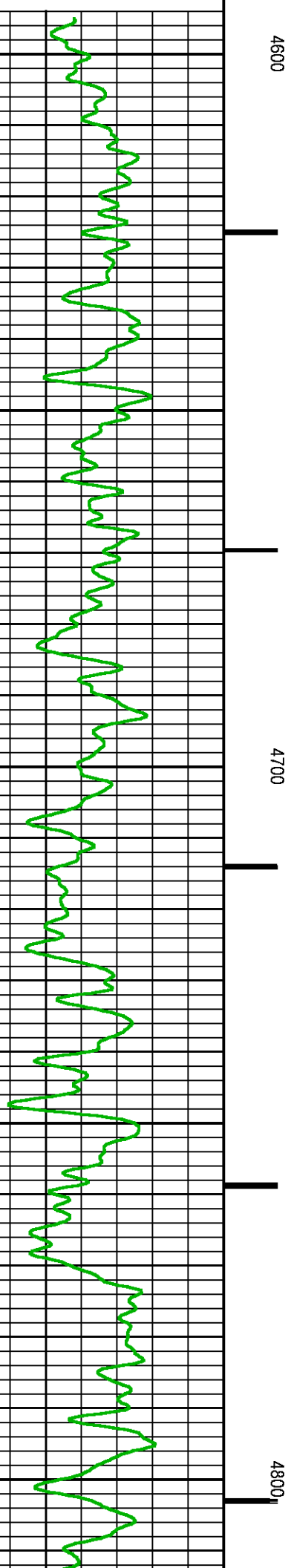
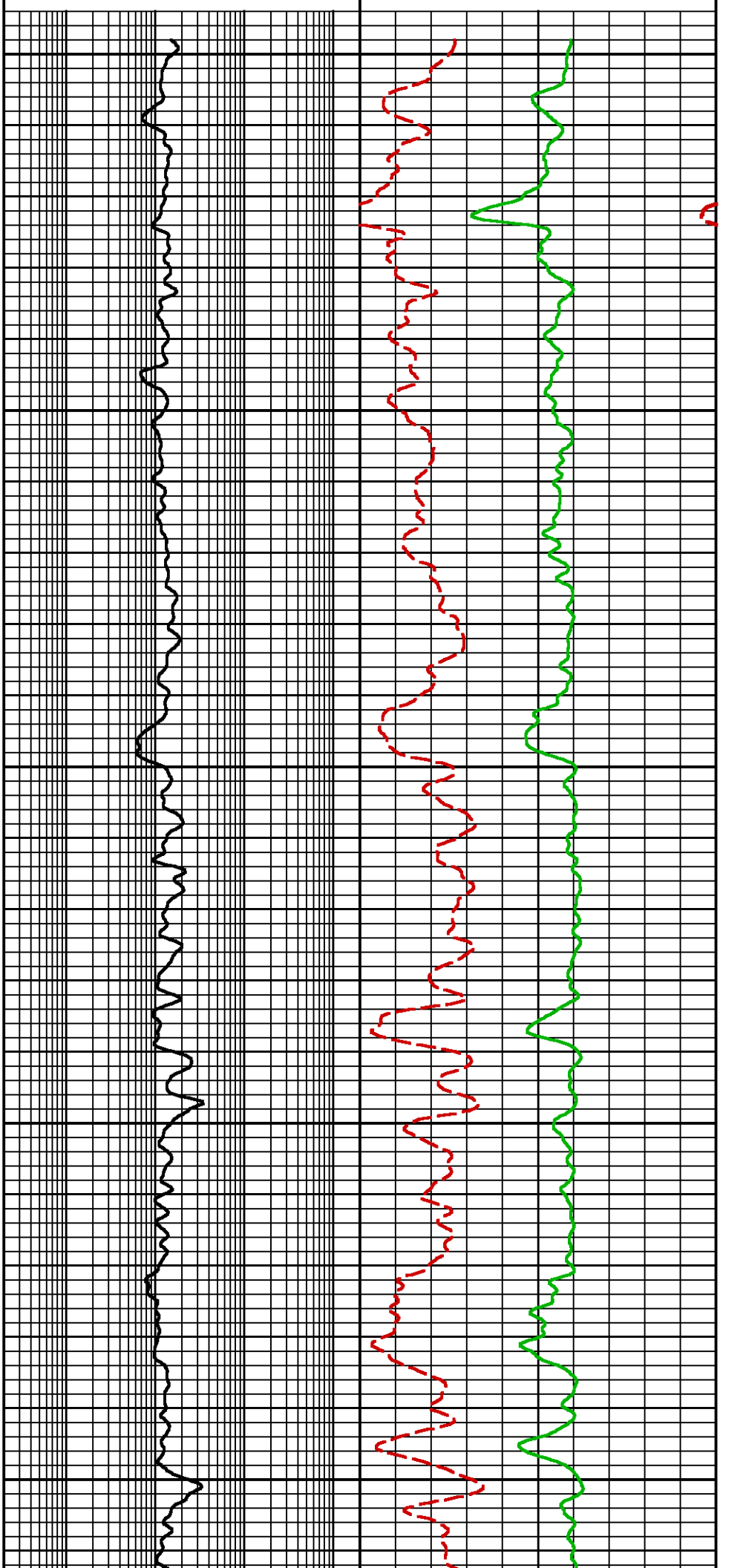


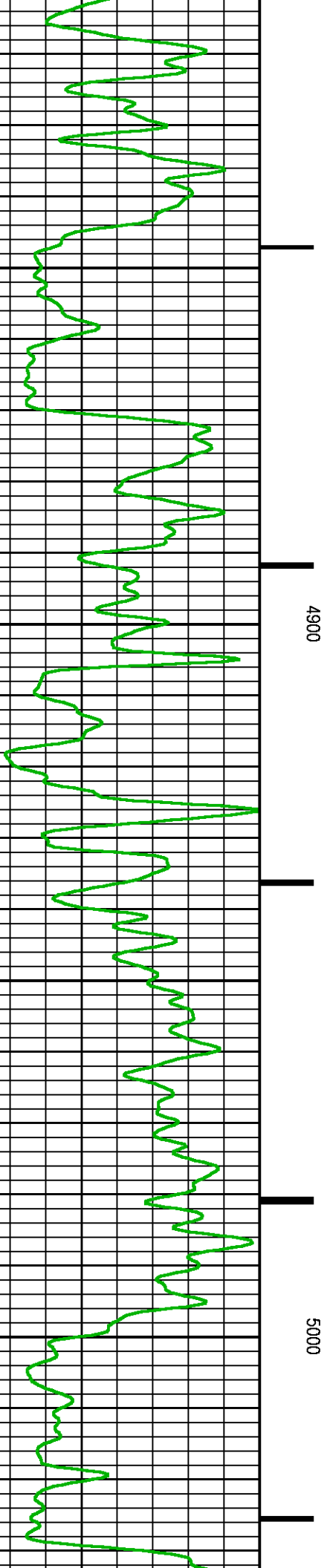
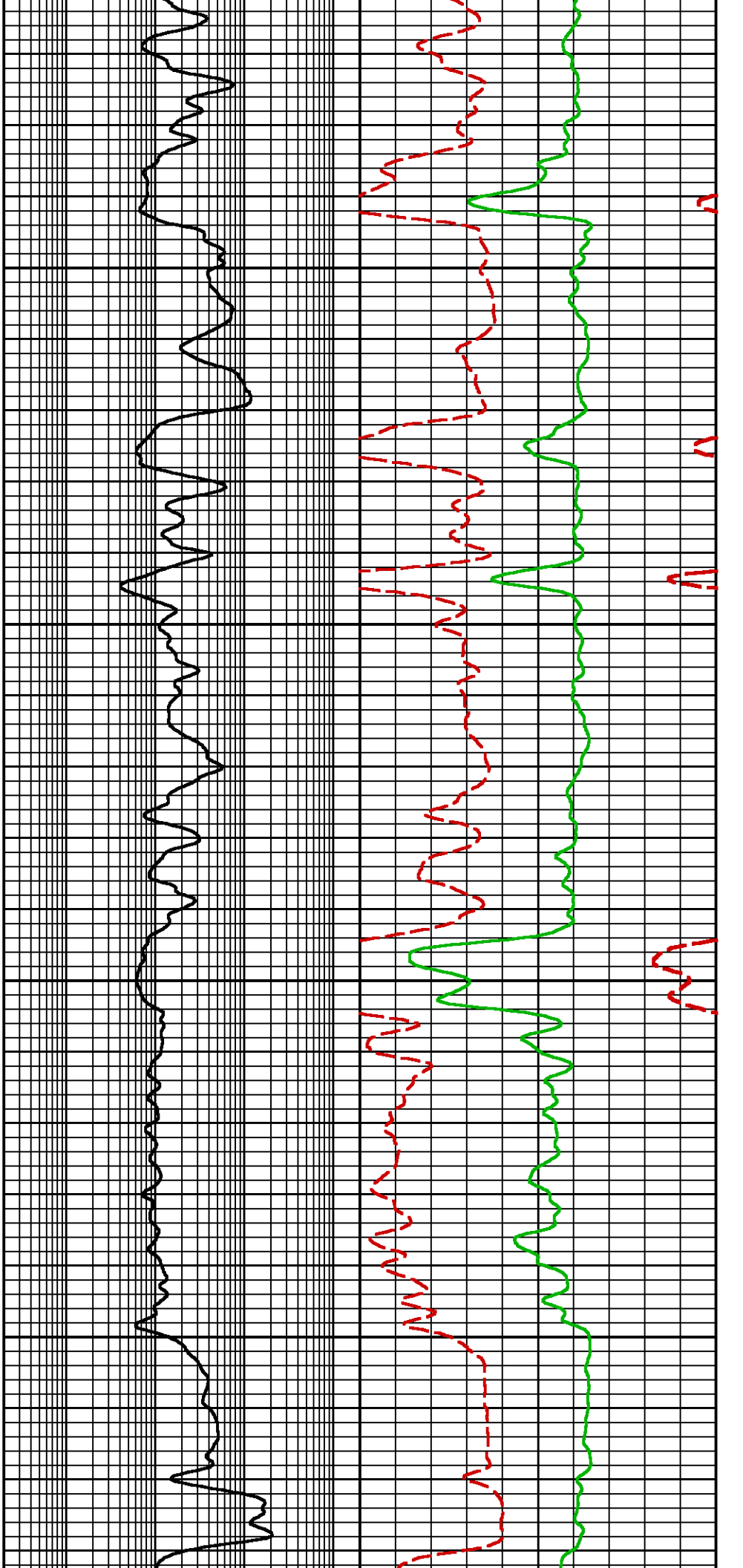


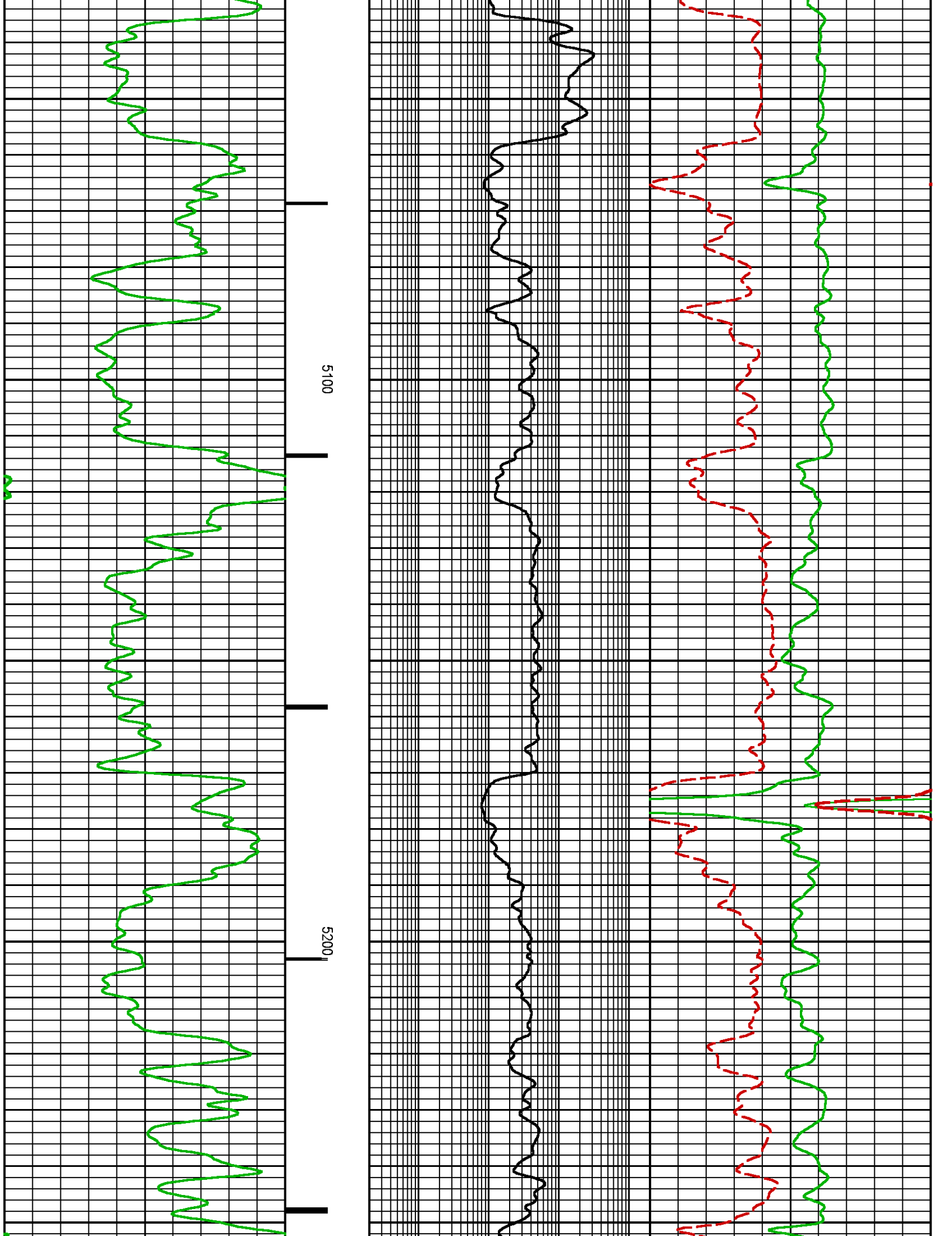
NEO RESULTS FOR BRUTON 19-03E (MAIN)

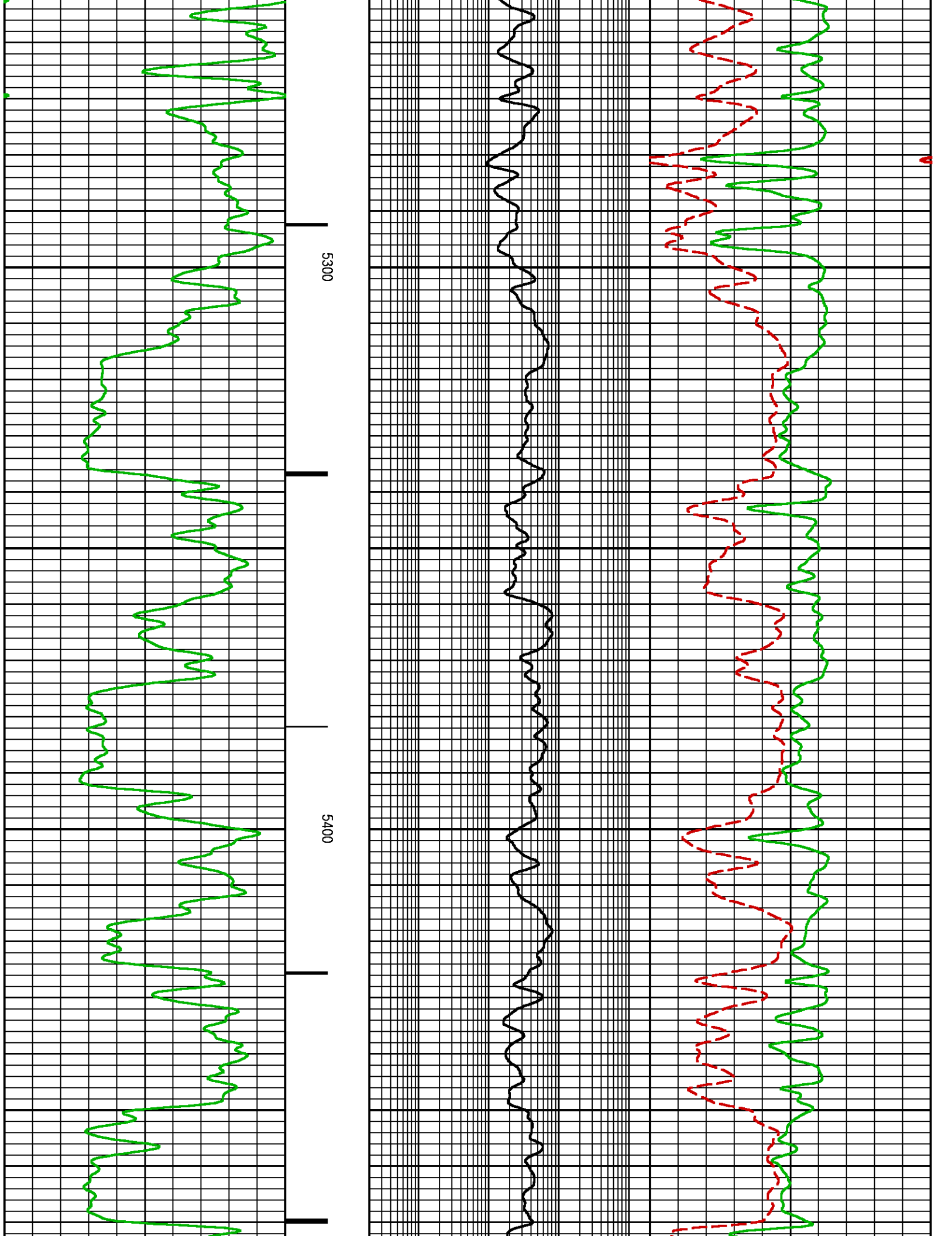
Project : NA
User : ellskima
Presentation : BHI3BKZH12:C:\Ape_Projects\laramie_bruton_19_03e\ NEO_PRESENTATION_LARAMIE_MAIN.pdf [5"/100' Scale]
Plot Interval : 4595 - 8313.25 Feet
Data File 1 : F1 : BHI3BKZH12:C:\Ape_Projects\laramie_bruton_19_03e\Merged_Set_Final.xtf
Created On : N/A
Company : LARAMIE ENERGY
Well : BRUTON 19-03E
Field : VEGA
File Interval : 2540.25 - 8313.25 Feet
OCT : NA

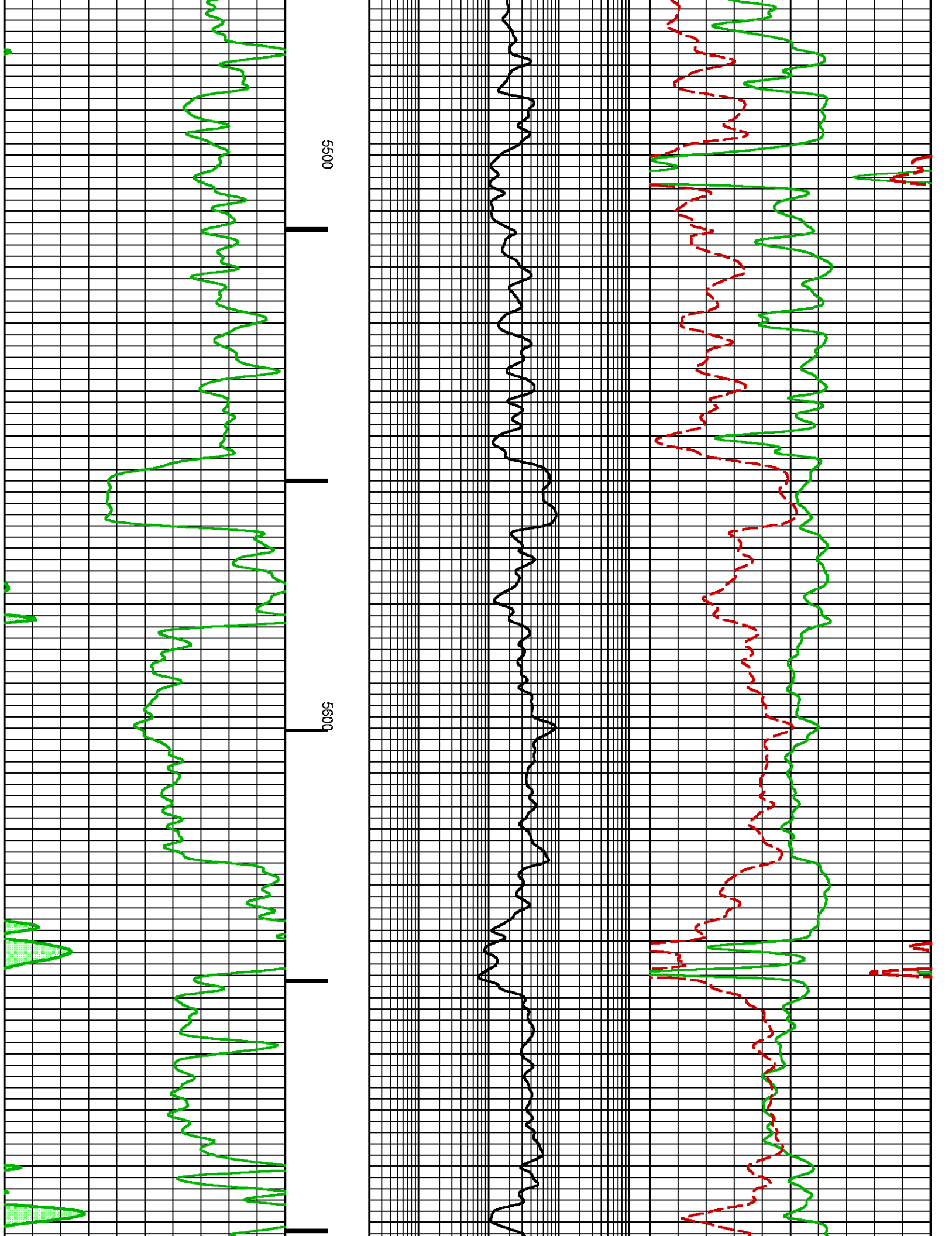


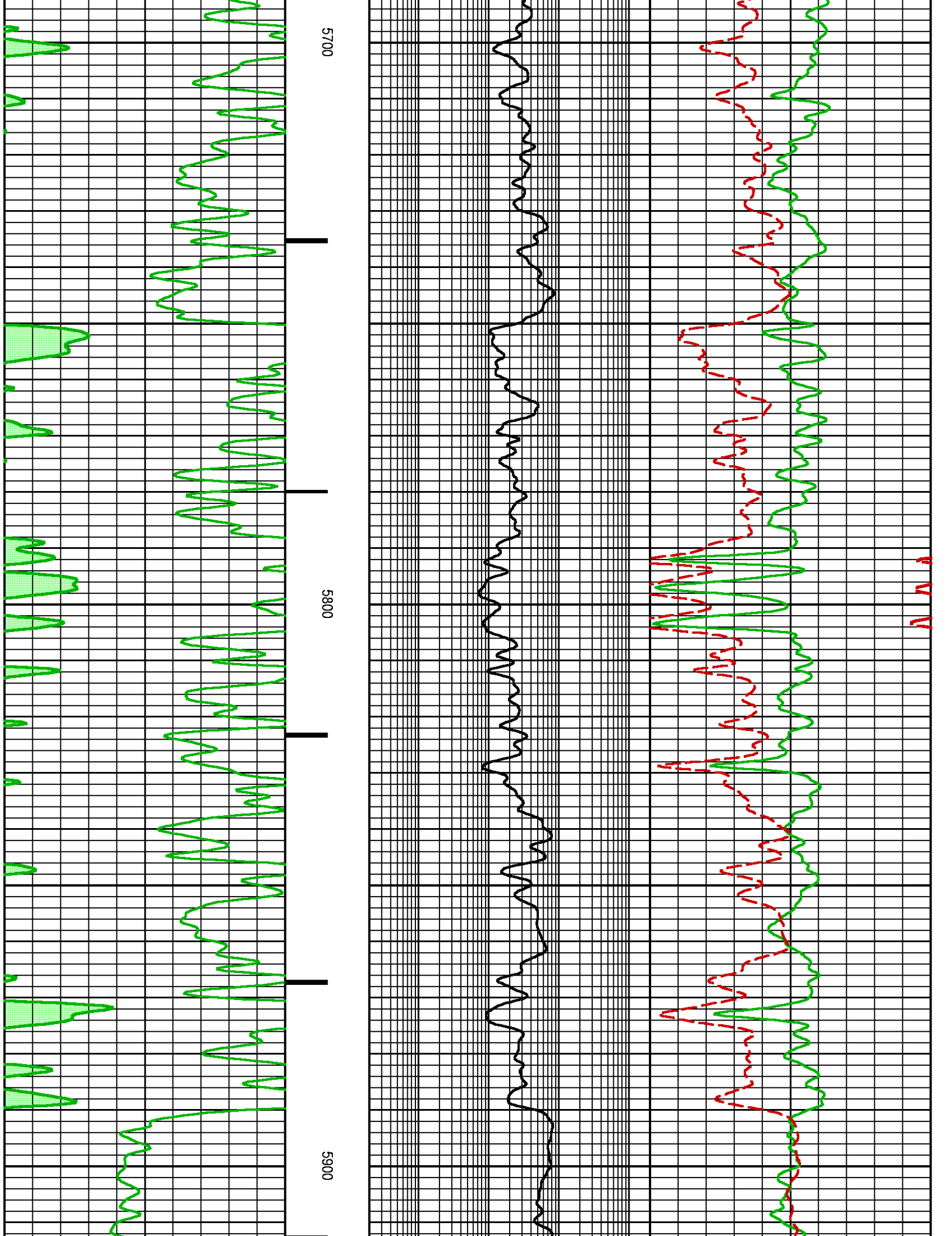


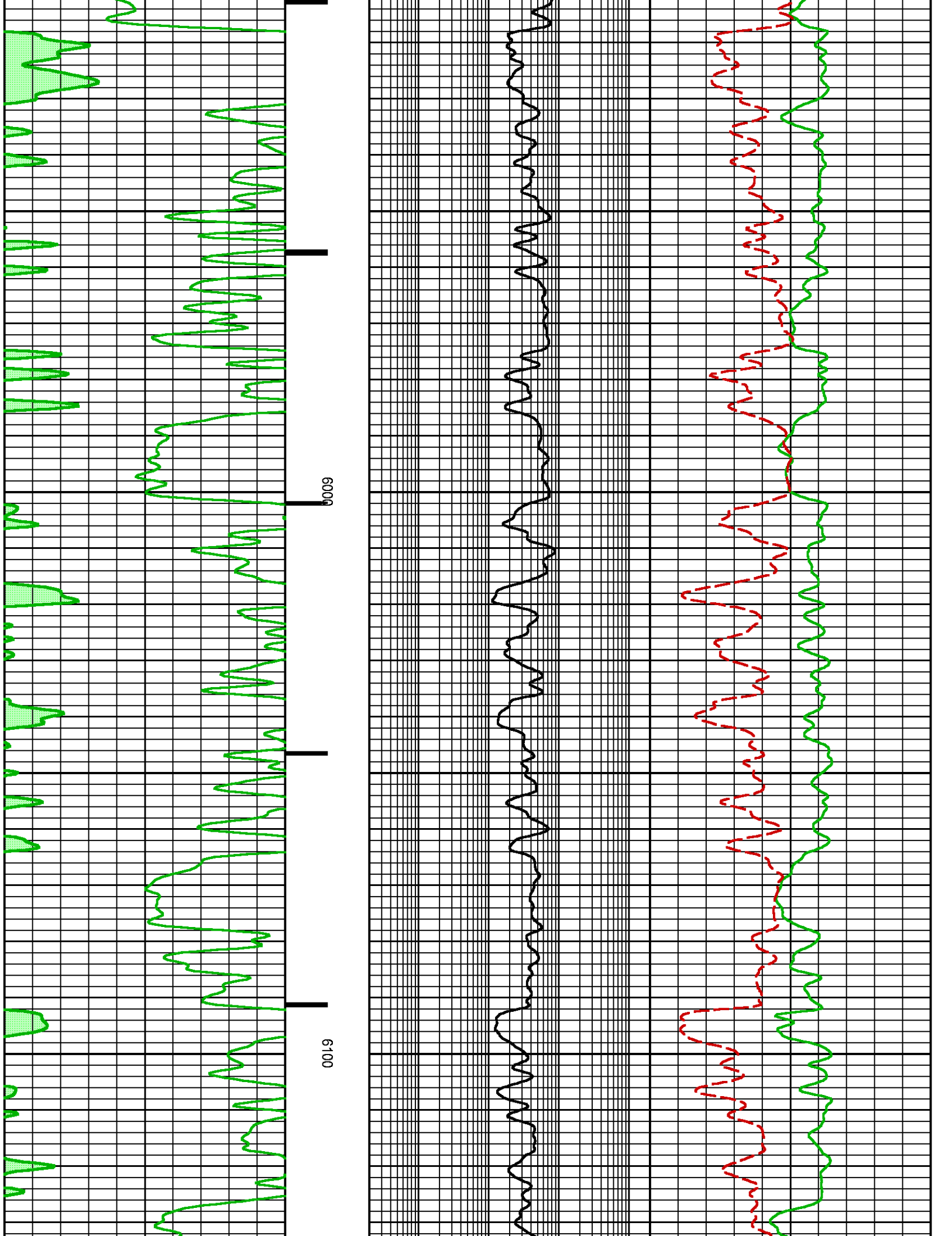


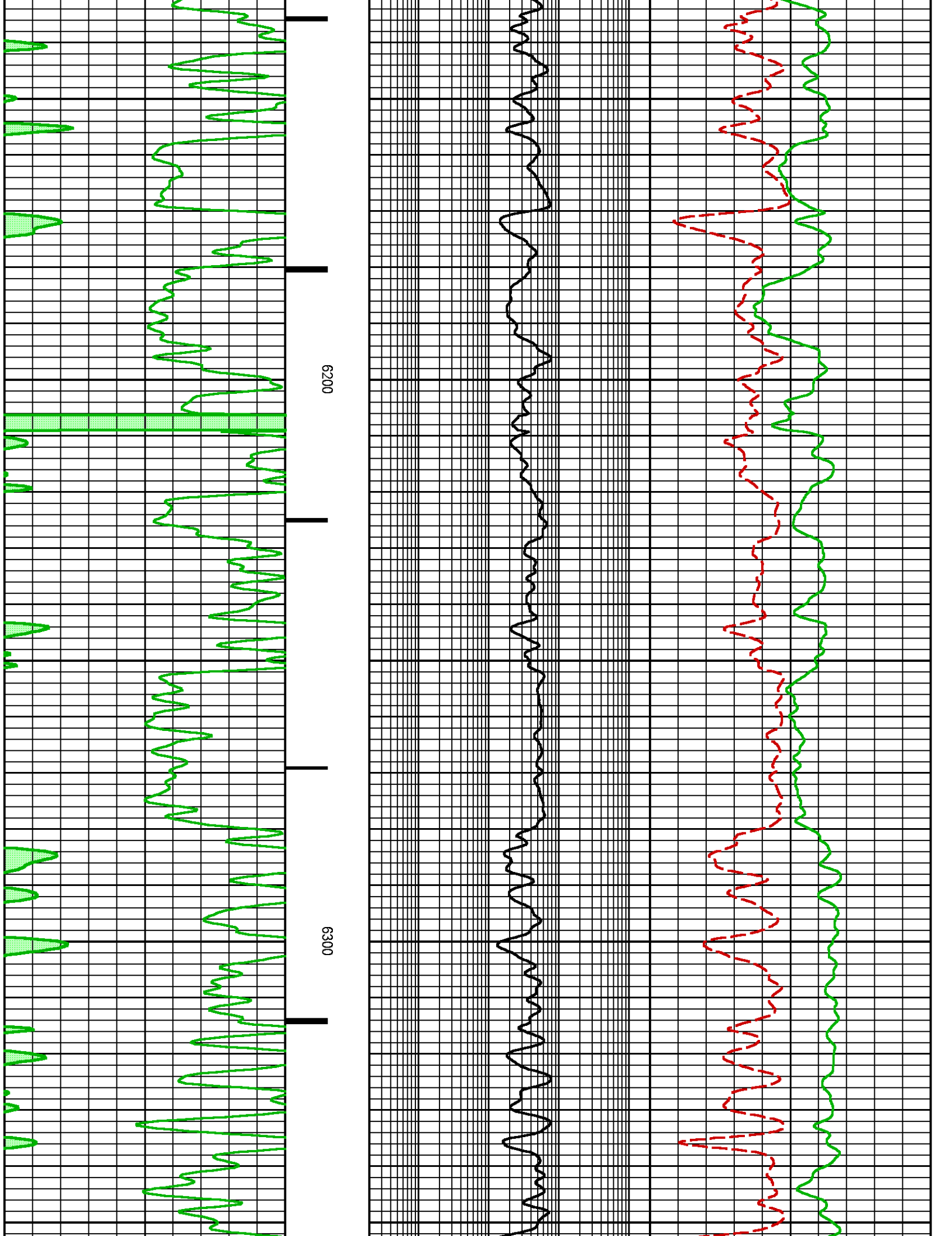


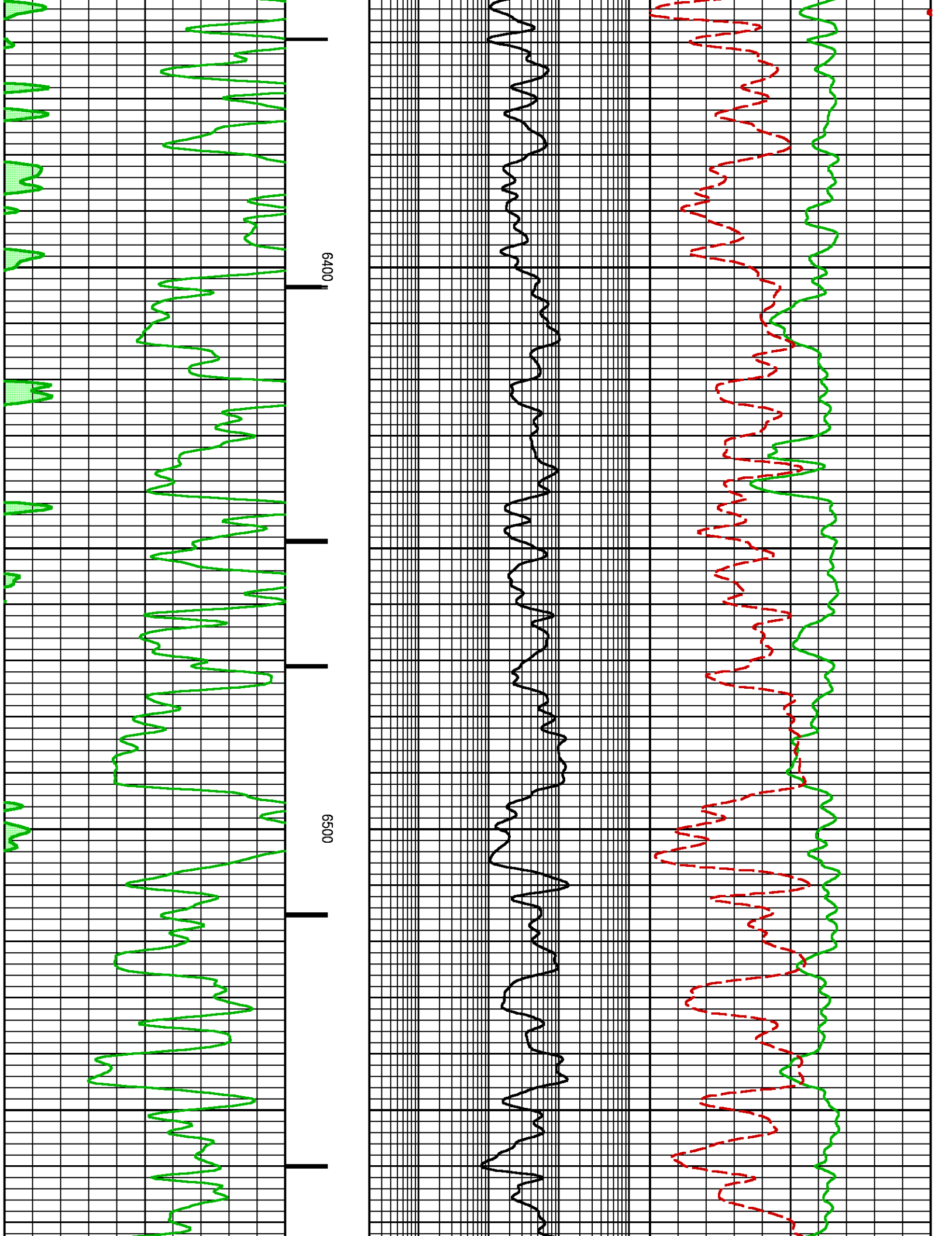


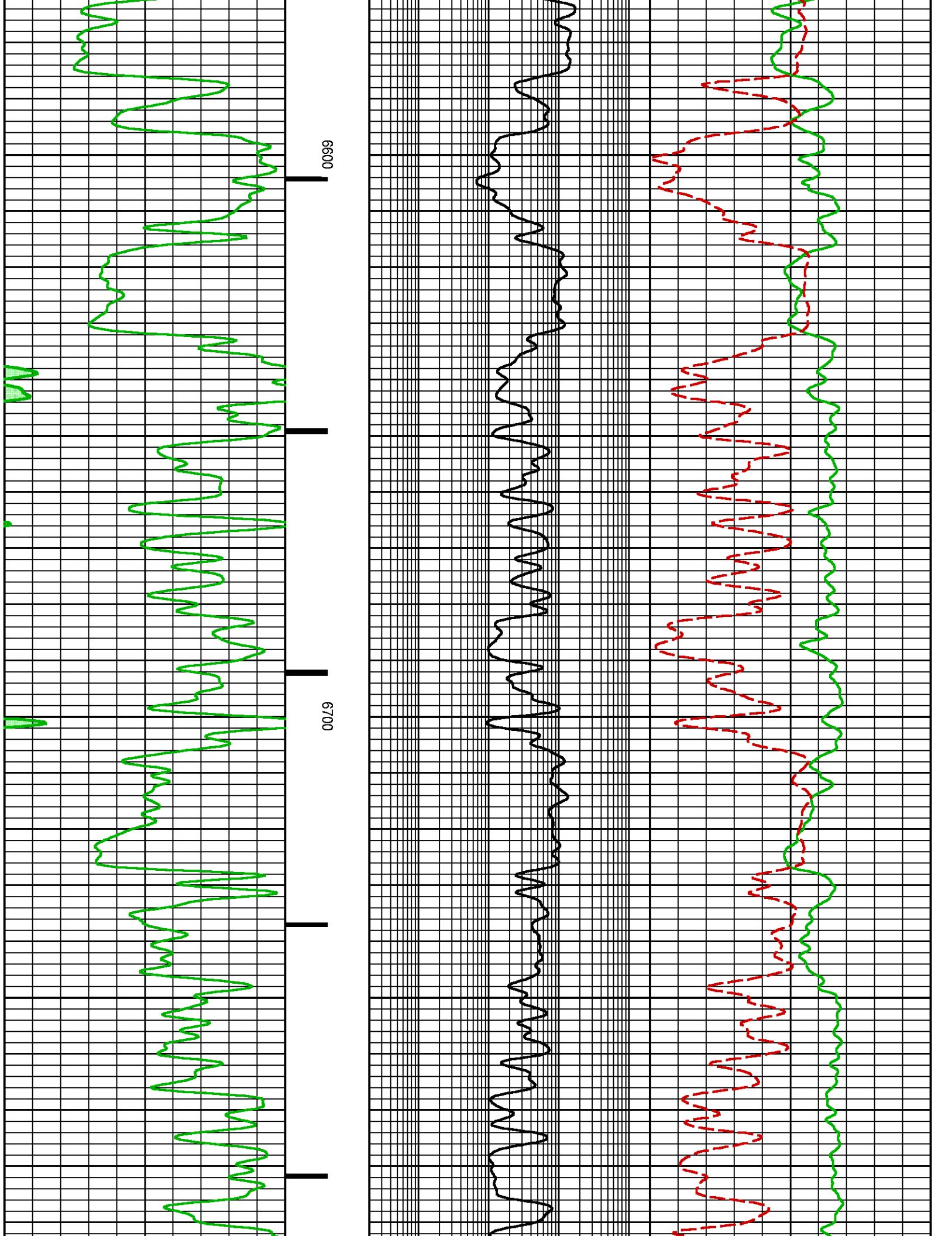


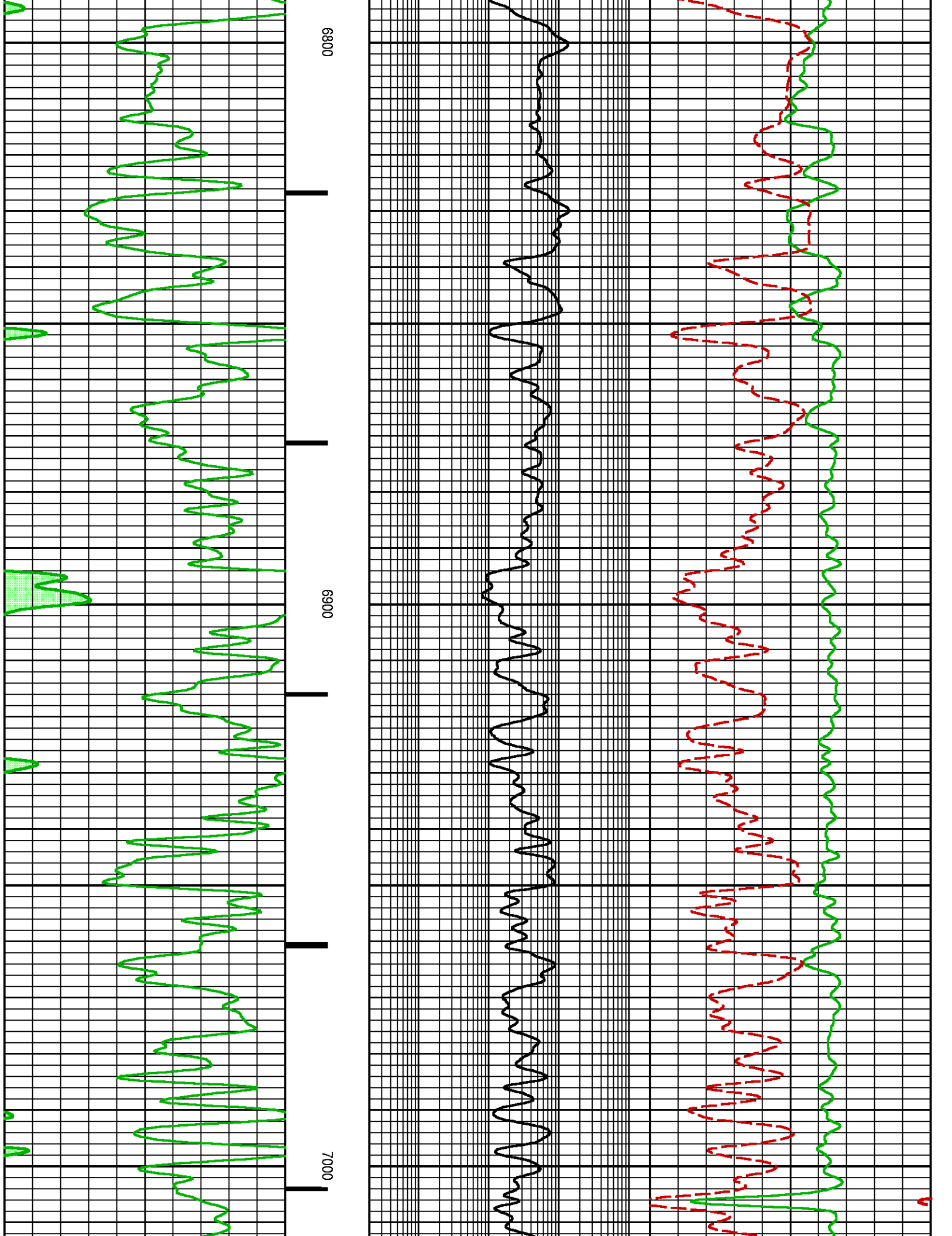


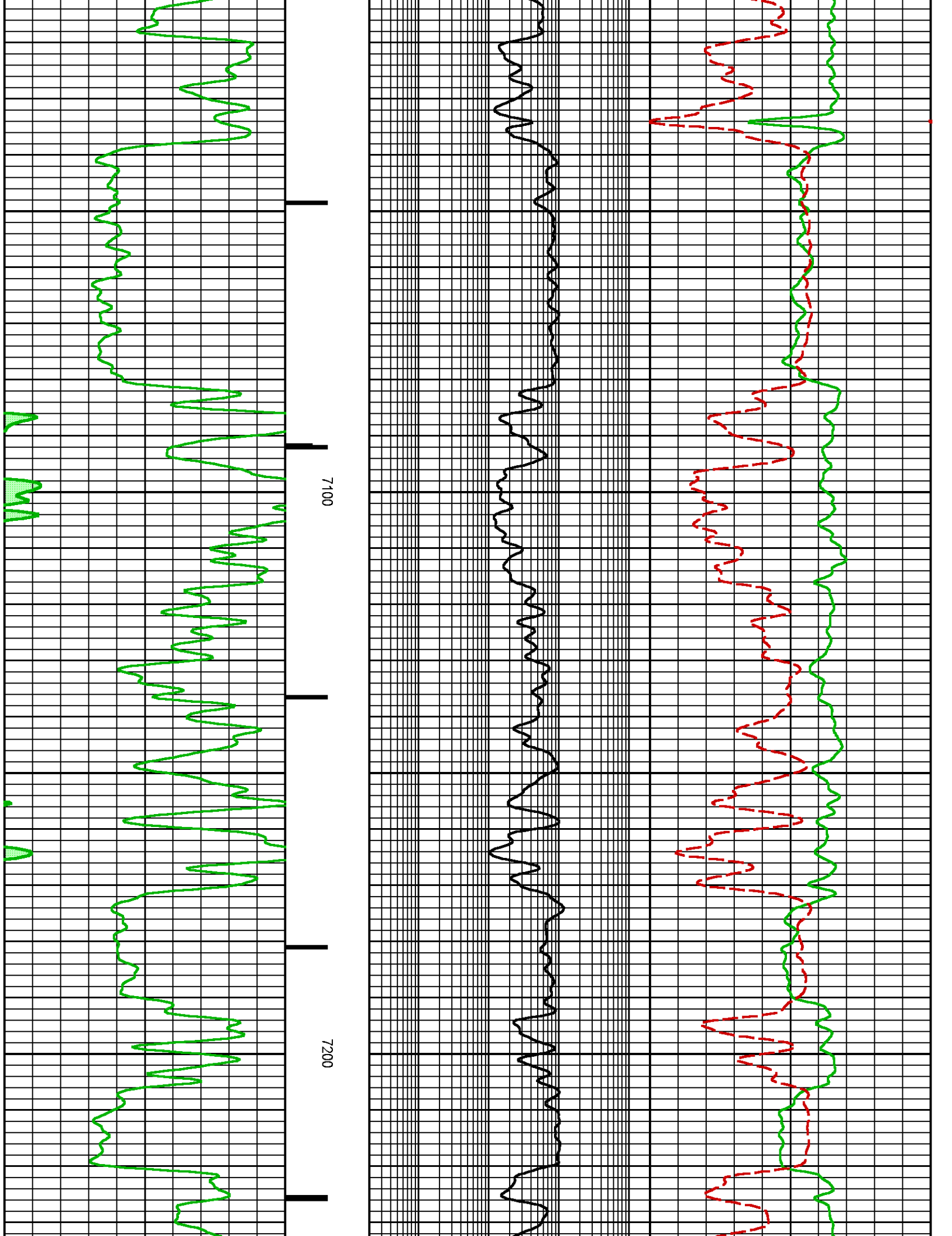


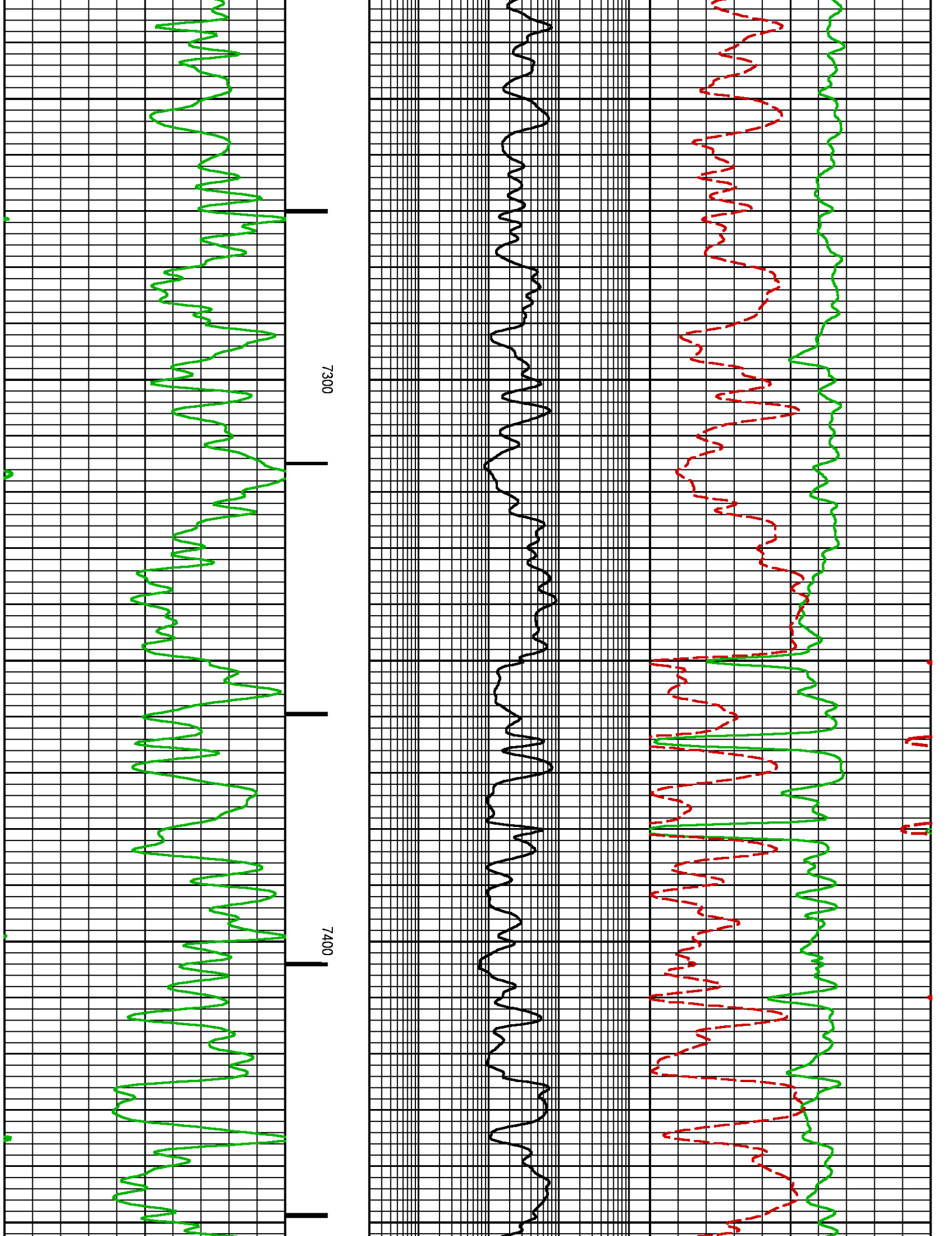


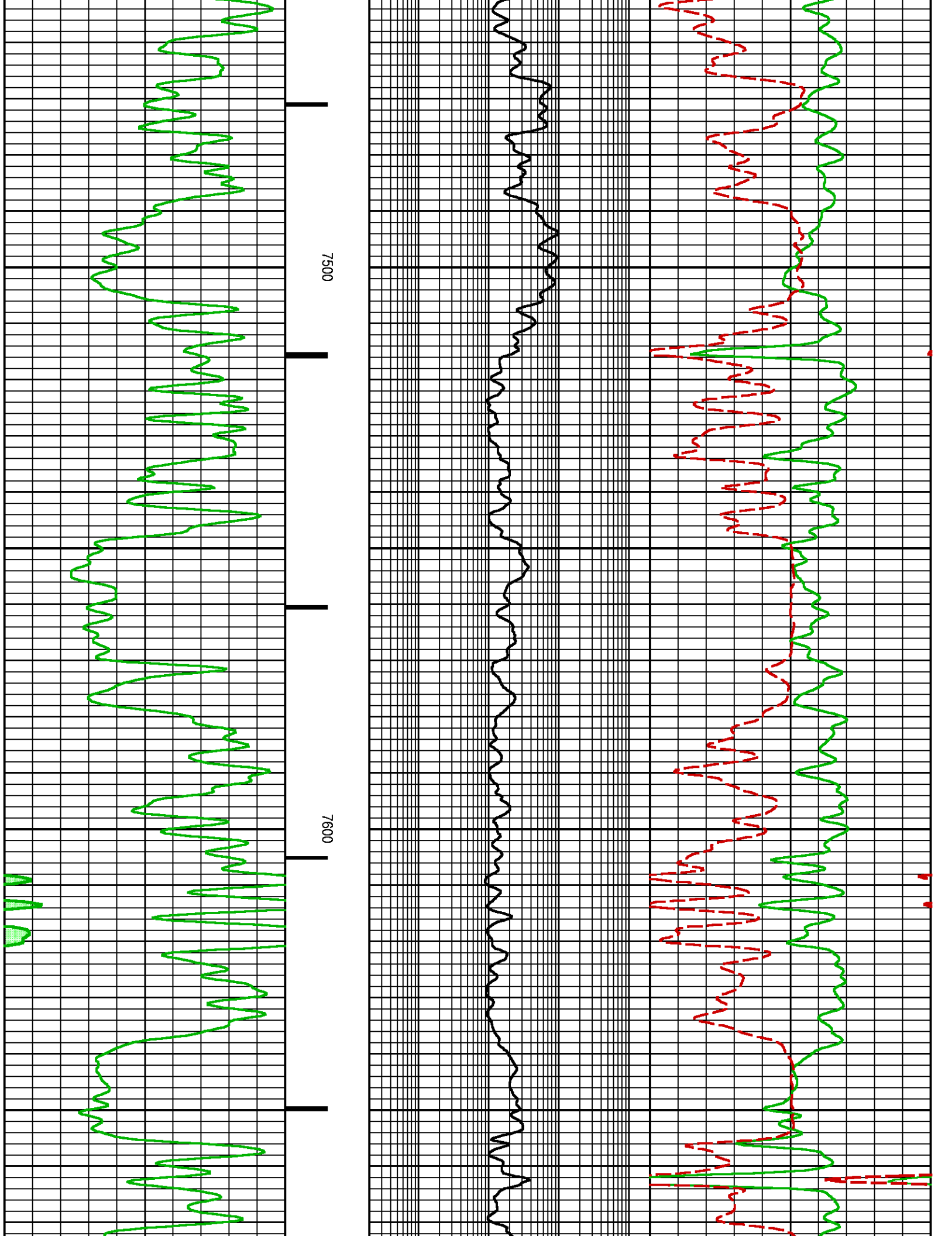


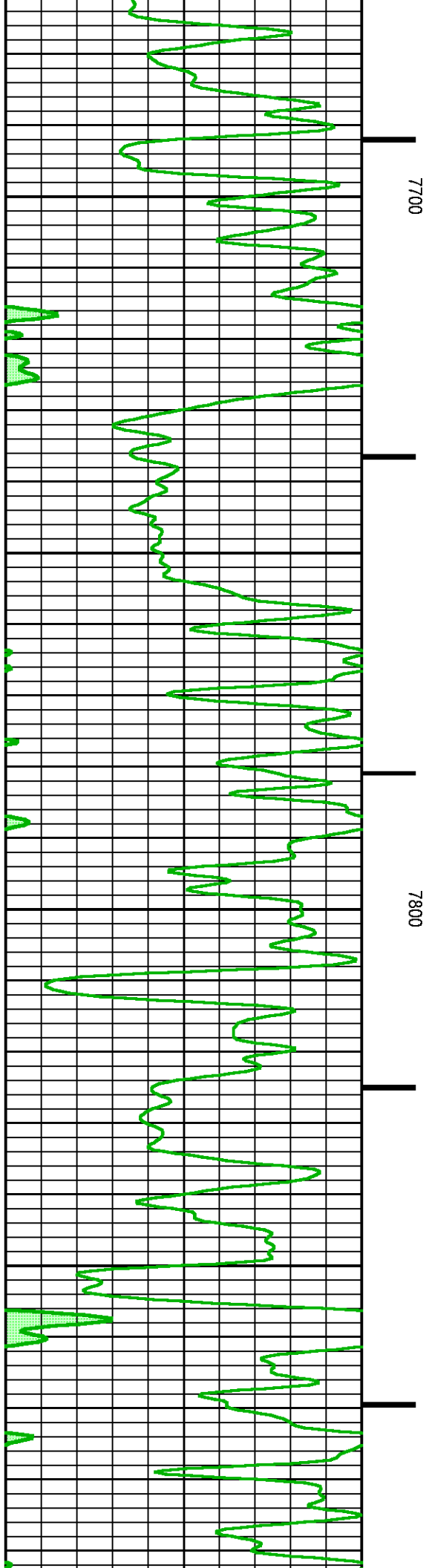
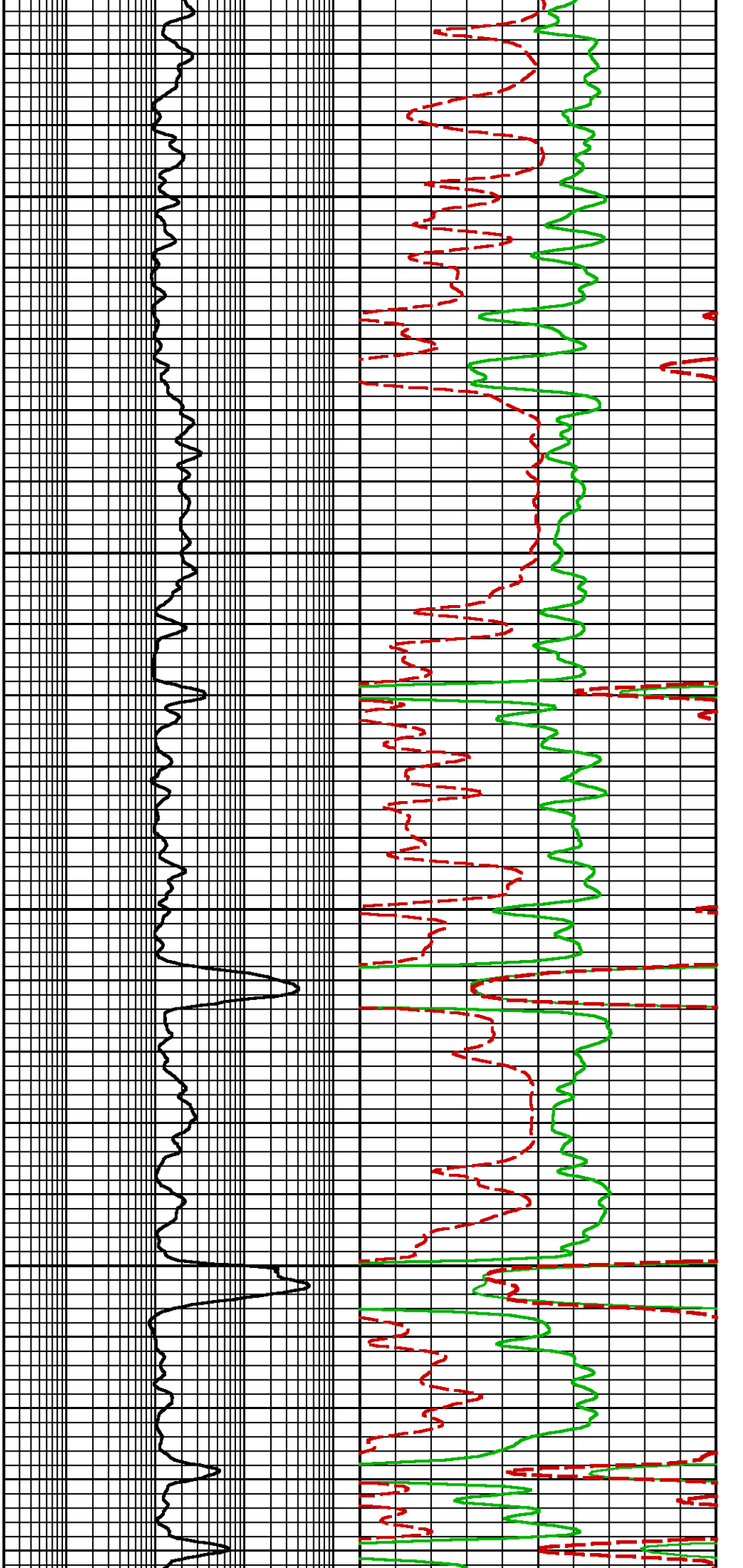


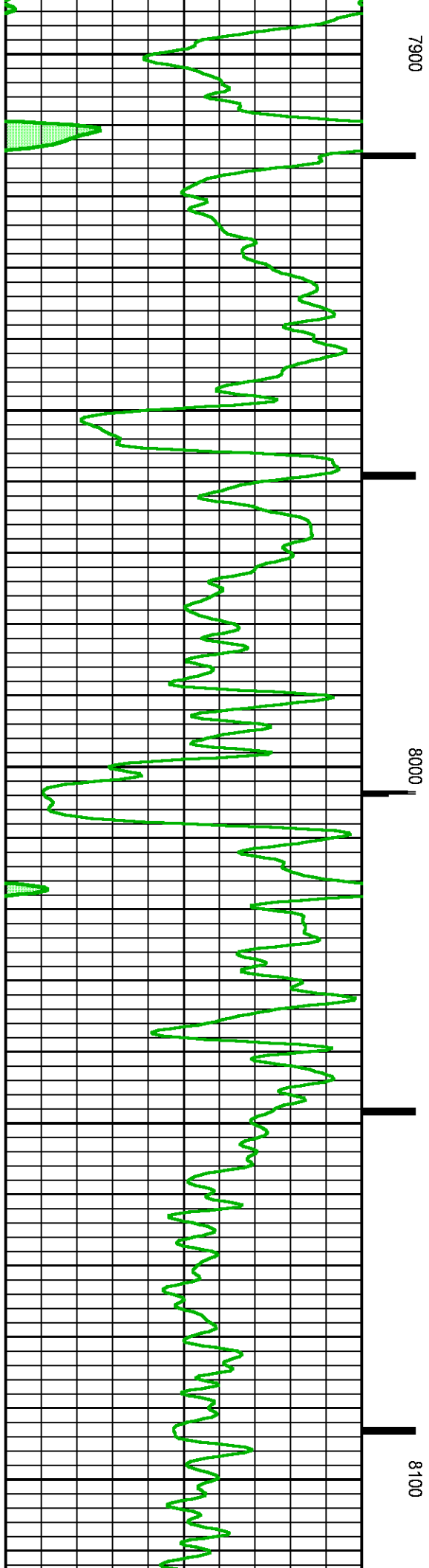
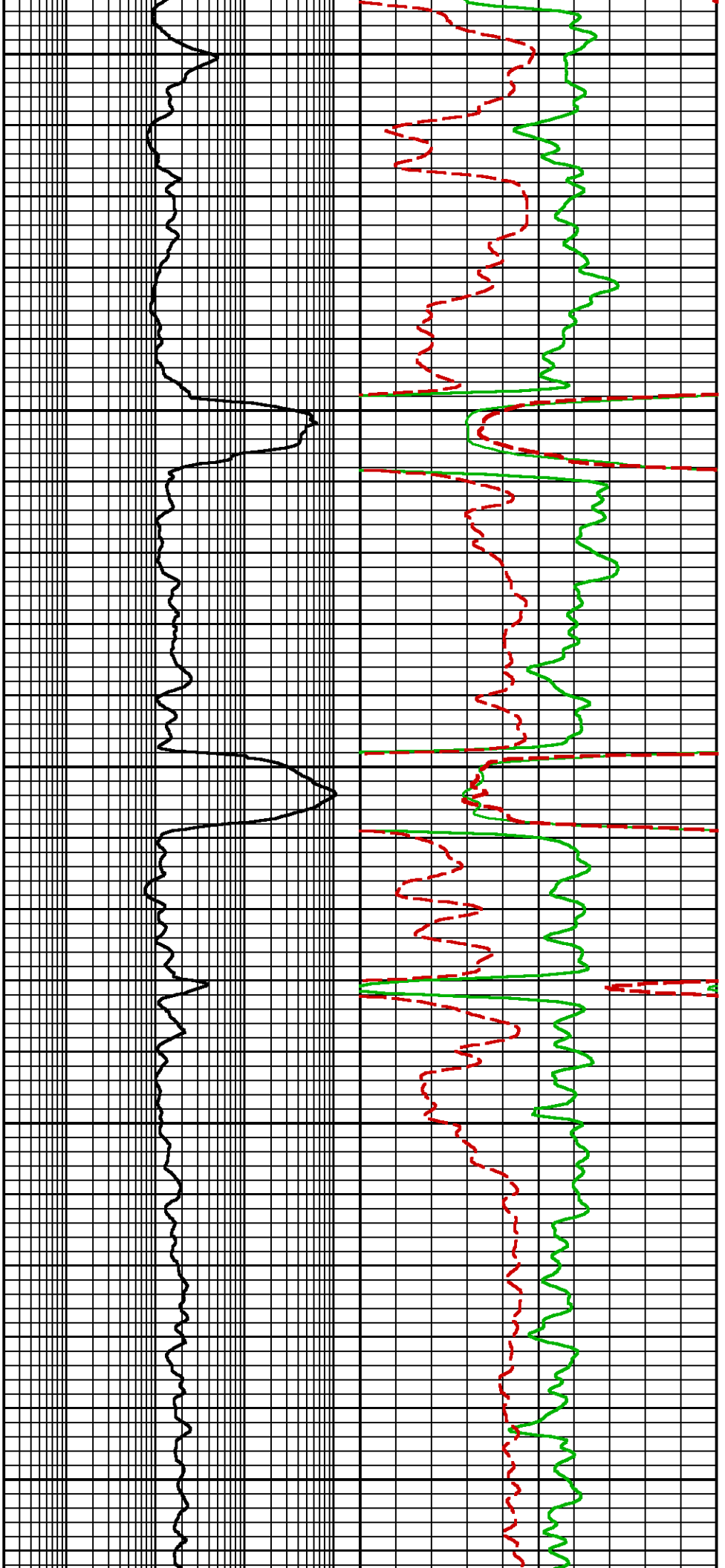


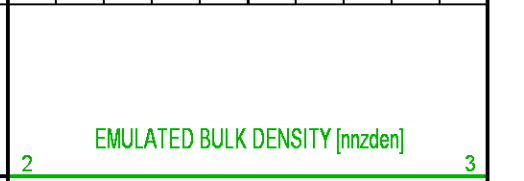
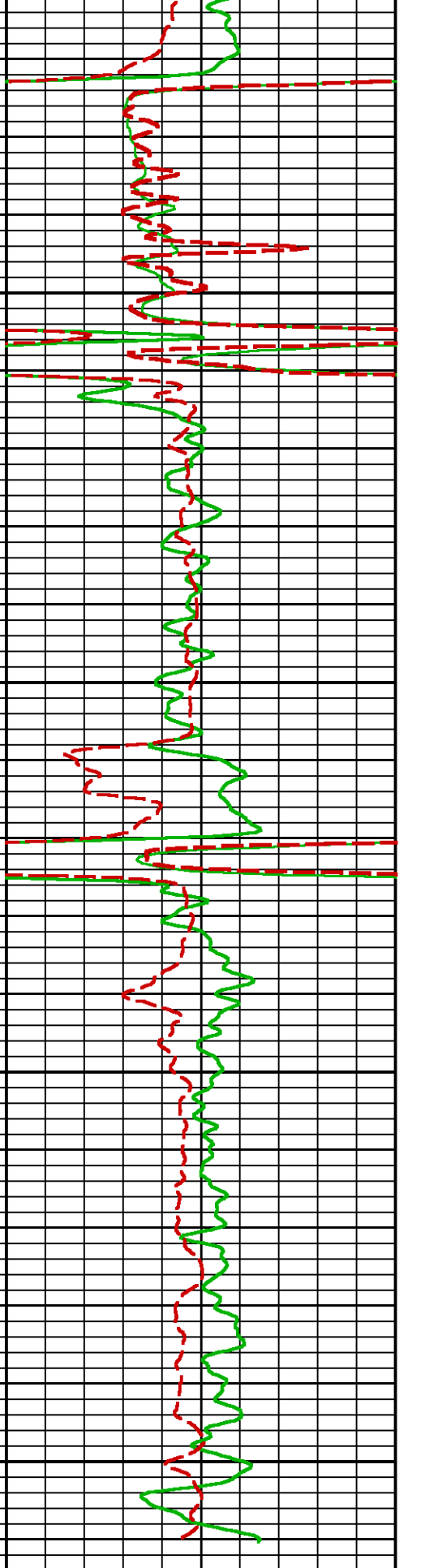
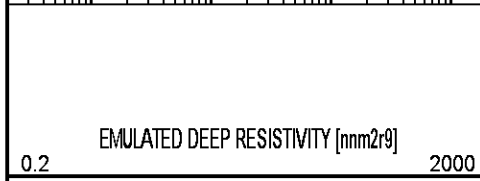
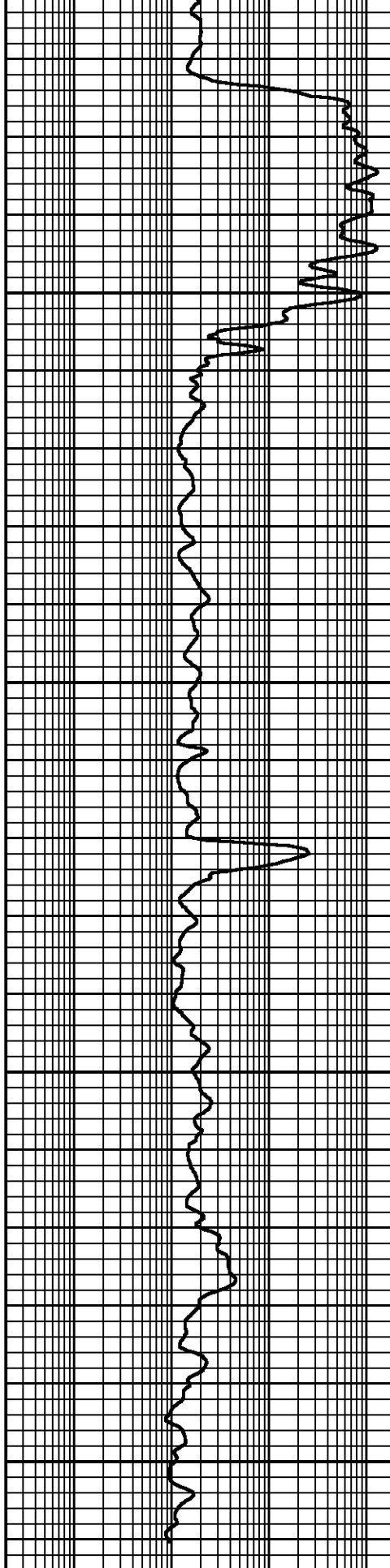
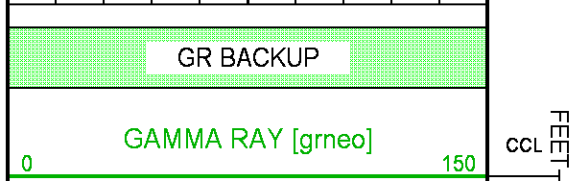
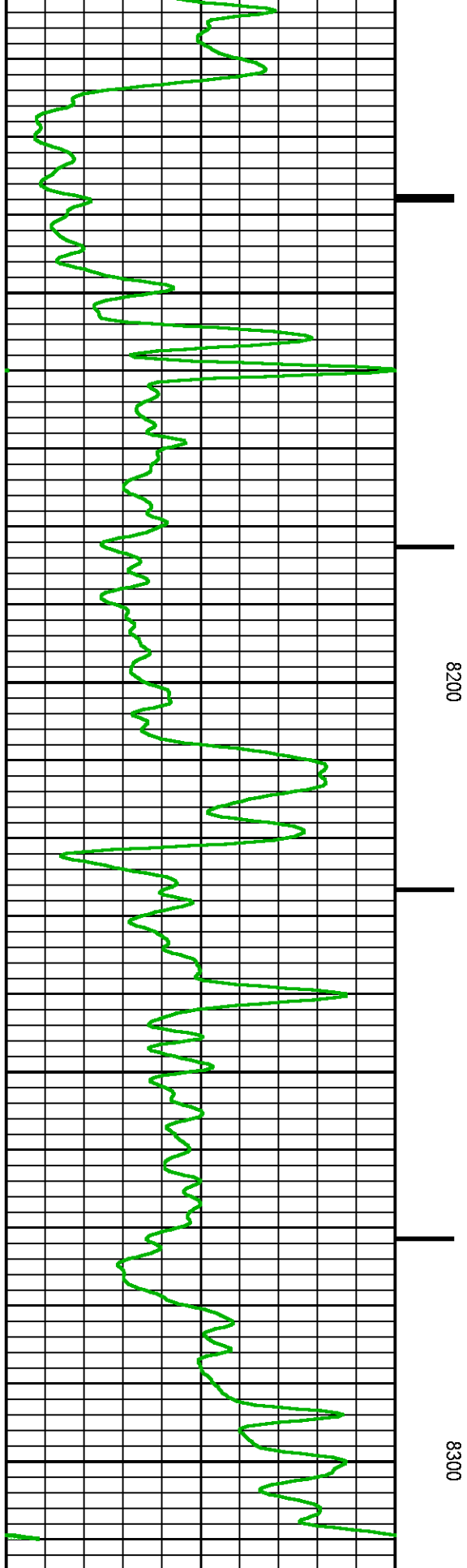












(GAPI)

(OHMM)

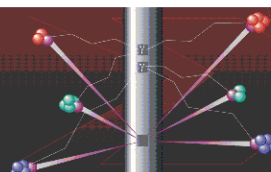
(G/C3)

EMULATED NEUTRON POROSITY [nnncf]

0.3

-0.1

(FRAC)

**BAKER
HUGHES**
a GE companyPulsed Neutron
Formation Evaluation

COMPANY

LARAMIE ENERGY

WELL

BRUTON 19-03E

FIELD

VEGA

COUNTY

MESA

STATE

COLORADO

FILE NO:

API NO:

05-077-10422-0000

LOCATION:

SEE REMARKS

ELEVATIONS:

KB 7286 FT

DF 7286 FT

GL 7262 FT

SEC

19

TWP

9S

RGE

93W

DATE

2-NOV-2017