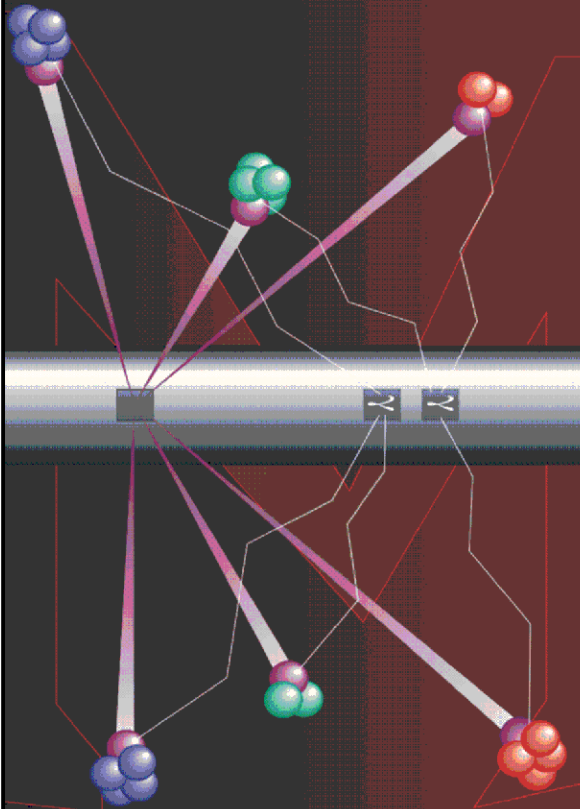


Pulsed Neutron Formation Evaluation



RESERVOIR PERFORMANCE MONITOR NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY

WELL GUNDERSON BCU 20-10E

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS

SEC 20 TWP 9S RGE 93W

ELEVATIONS:

KB 7176 FT DF 7176 FT GL 7146 FT

DATE 11-SEP-2017 ECC 28350.01

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>11-SEP-2017</u>
FIELD DATA	LOCATION: <u>WOODWARD</u>	ENGINEER: <u>L. SINICKI</u>	DATE: <u>26-AUG-2017</u>

FROM	TO								
<u>2317 FT</u>	<u>7933 FT</u>								

REMARKS

LOCATION: SHL: LAT: 39.266672N, LONG: 107.795281W
BHL: LAT: 39.263096N, LONG: 107.788397W

ANY ERRORS IN THE TRAINING WELL OPENHOLE DATA CAN PERPETUATE THROUGH AS AN ERROR IN THE EMULATED RESULTS.

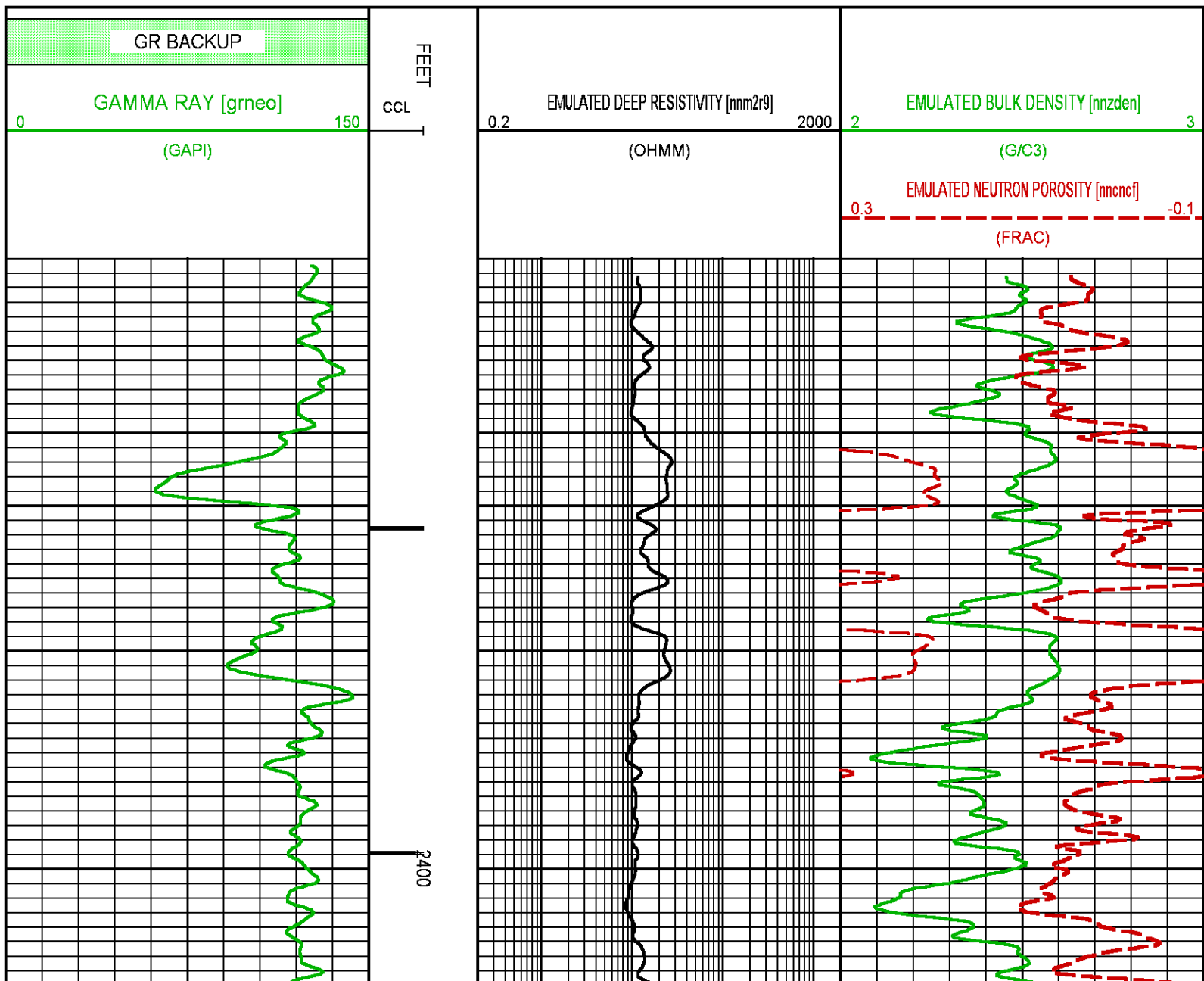
BOND LOG IS DEPTH REFERENCE LOG

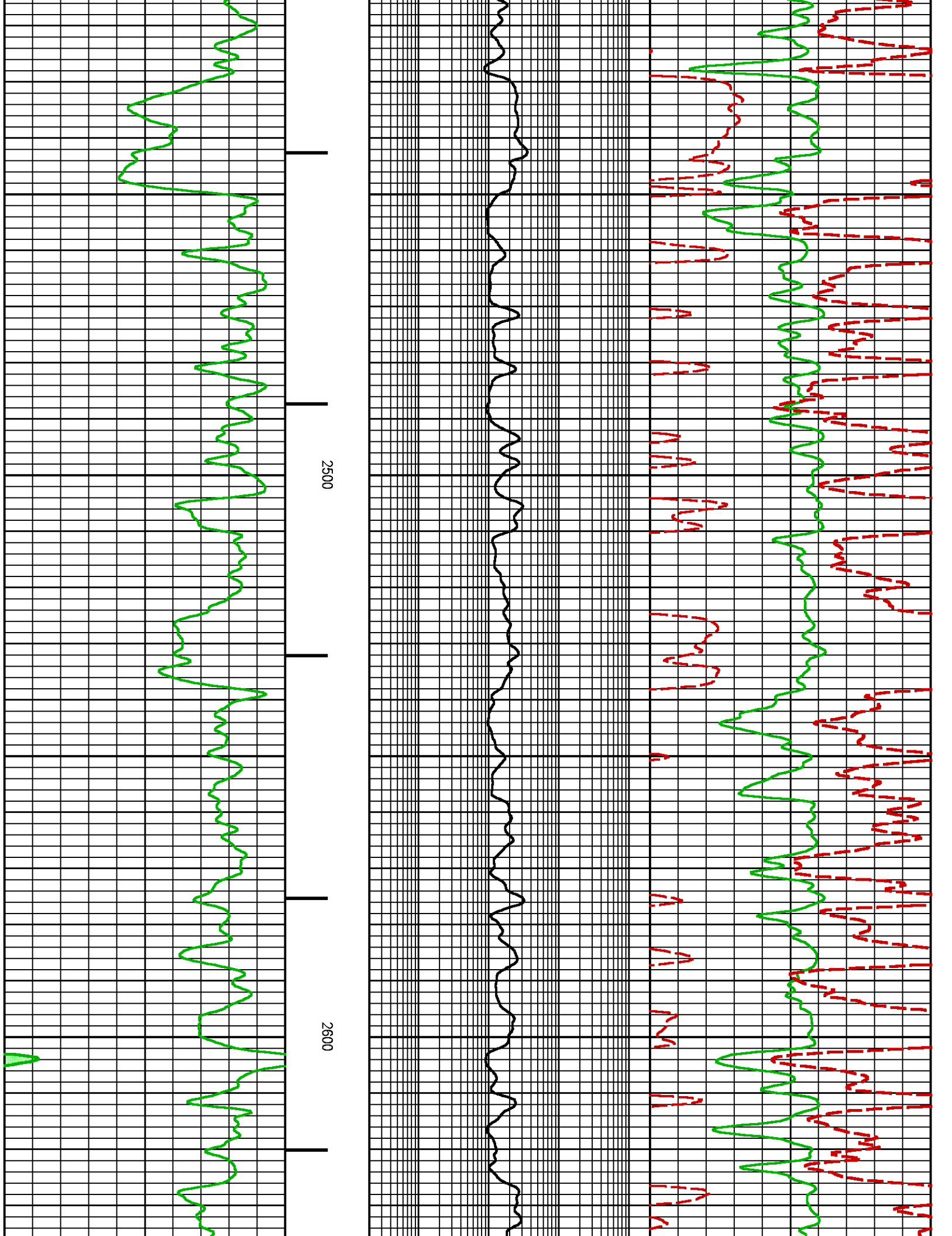
EMULATED DENSITY CORRESPONDING TO 2243'-3100' ON TRAINING WELL IS AFFECTED BY SEVERELY DAMAGED BOREHOLE

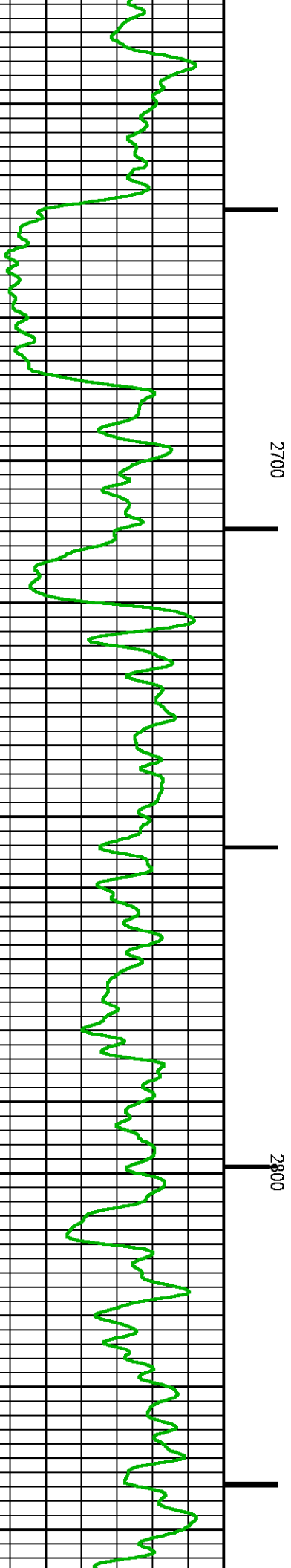
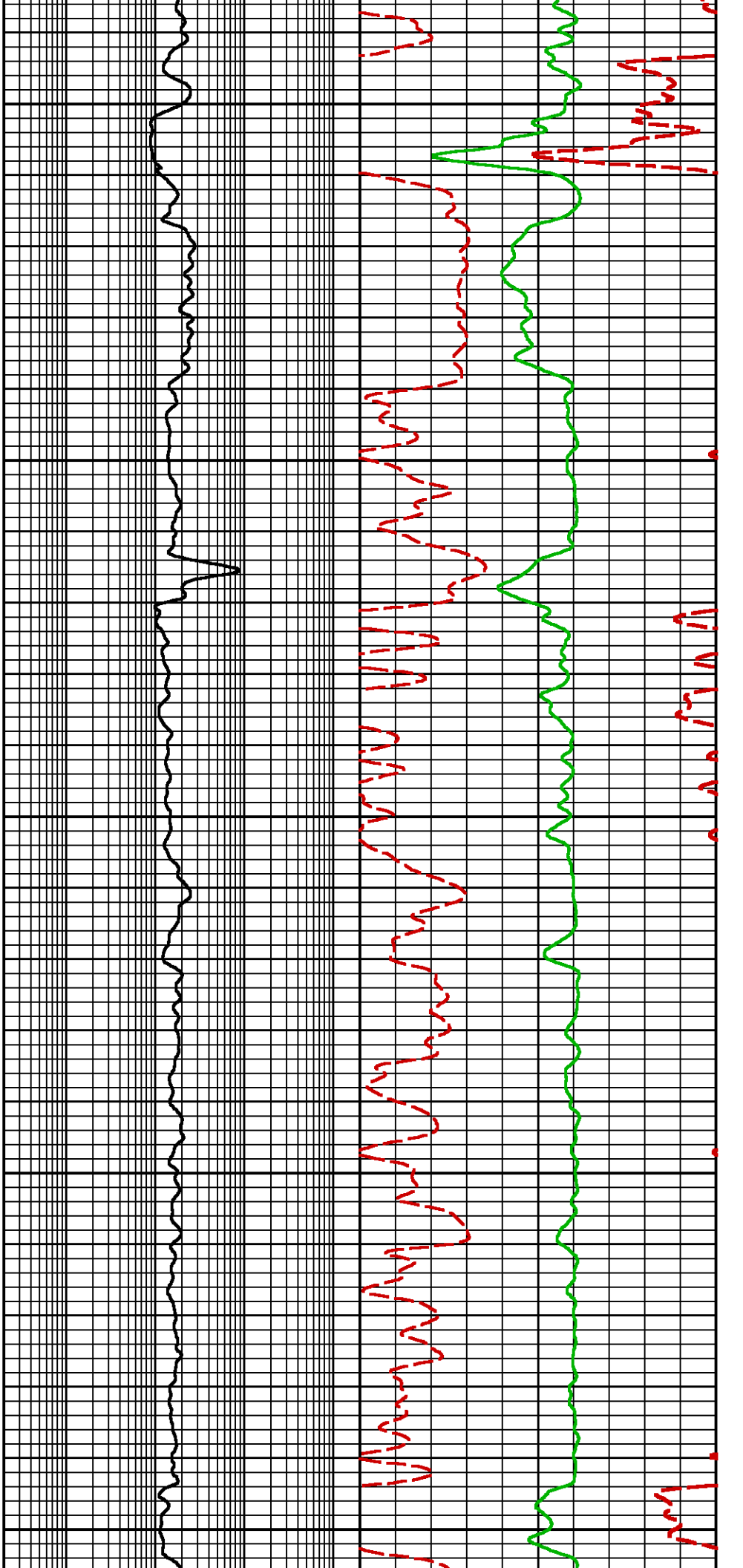
GEOLOGICIST: K. ELLSWORTH

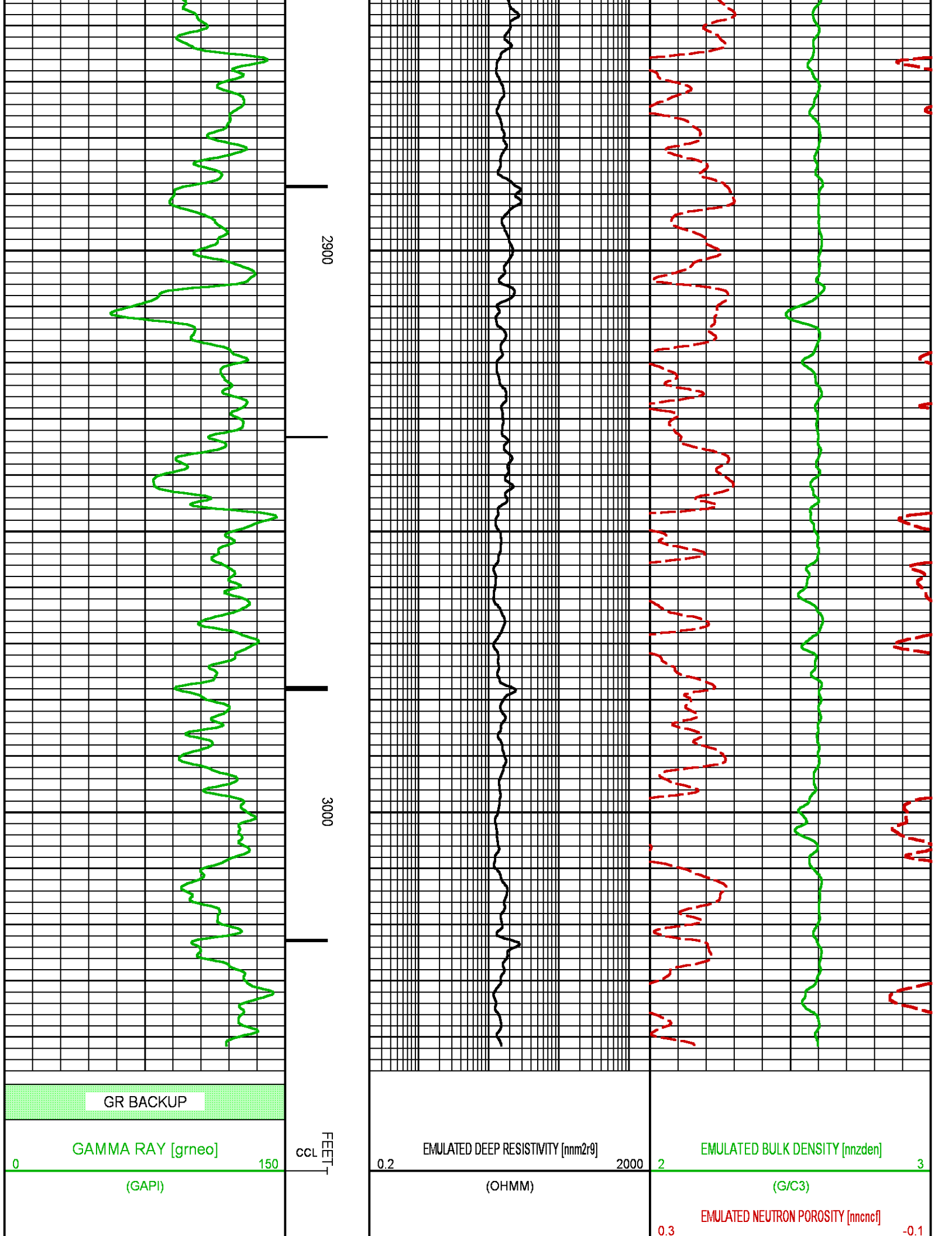
NEO RESULTS FOR GUNDERSON BCU 20-10E (G-SAND)

Project : NA
User : ellskima
Presentation : BHI3BKZH12:C:\Ape_Projects\laramie_gunderson_20_10e\NEO_PRESENTATION_LARAMIE_G-Sand.pdf [5"/100' Scale]
Plot Interval : 2317 - 3045 Feet
Data File 1 : F1 : BHI3BKZH12:C:\Ape_Projects\laramie_gunderson_20_10e\Merged_Set_Final.xtf
Created On : N/A
Company : LARAMIE ENERGY
Well : GUNDERSON 20-10E
Field : VEGA
File Interval : 2317 - 7933 Feet
OCT : NA







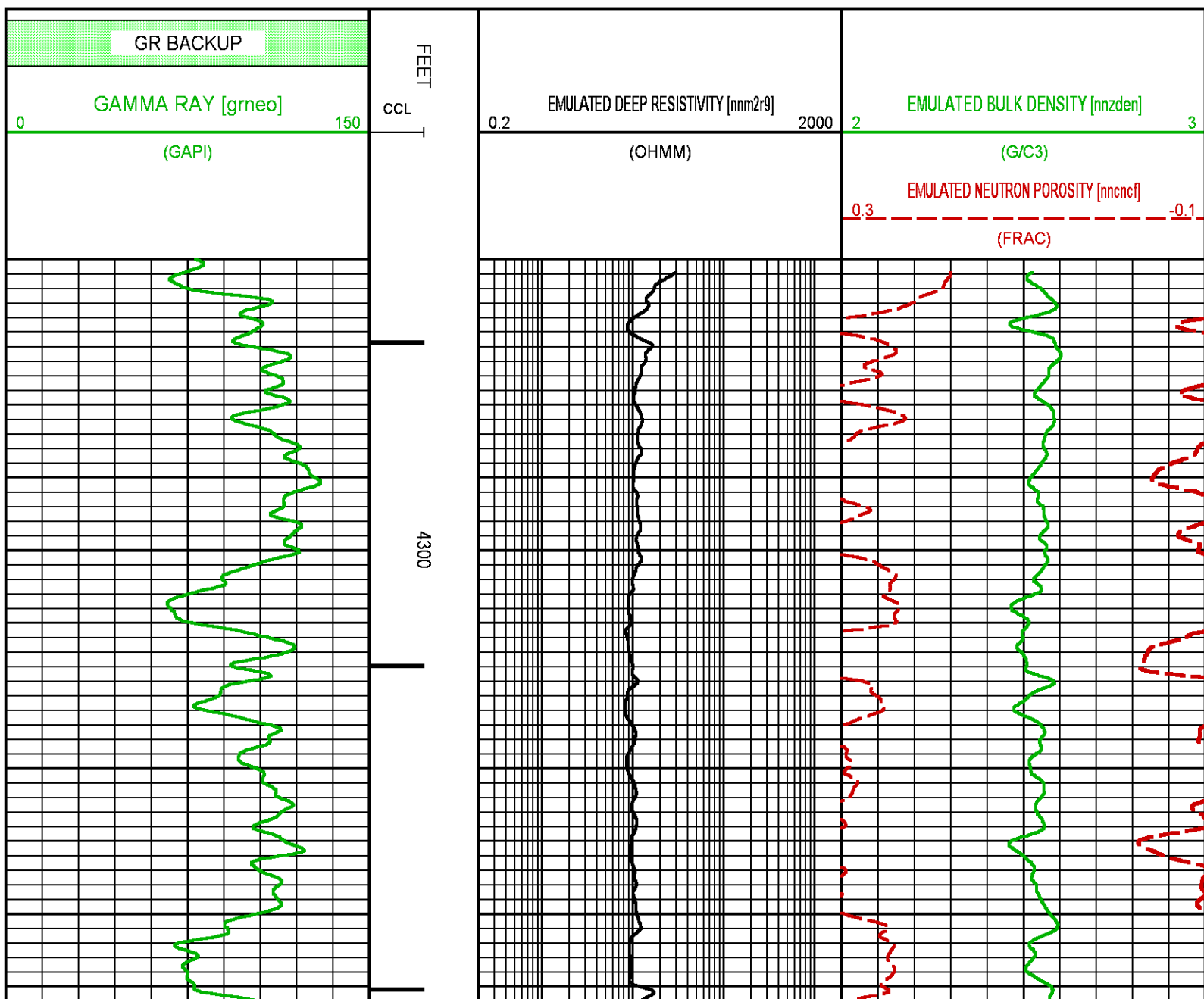


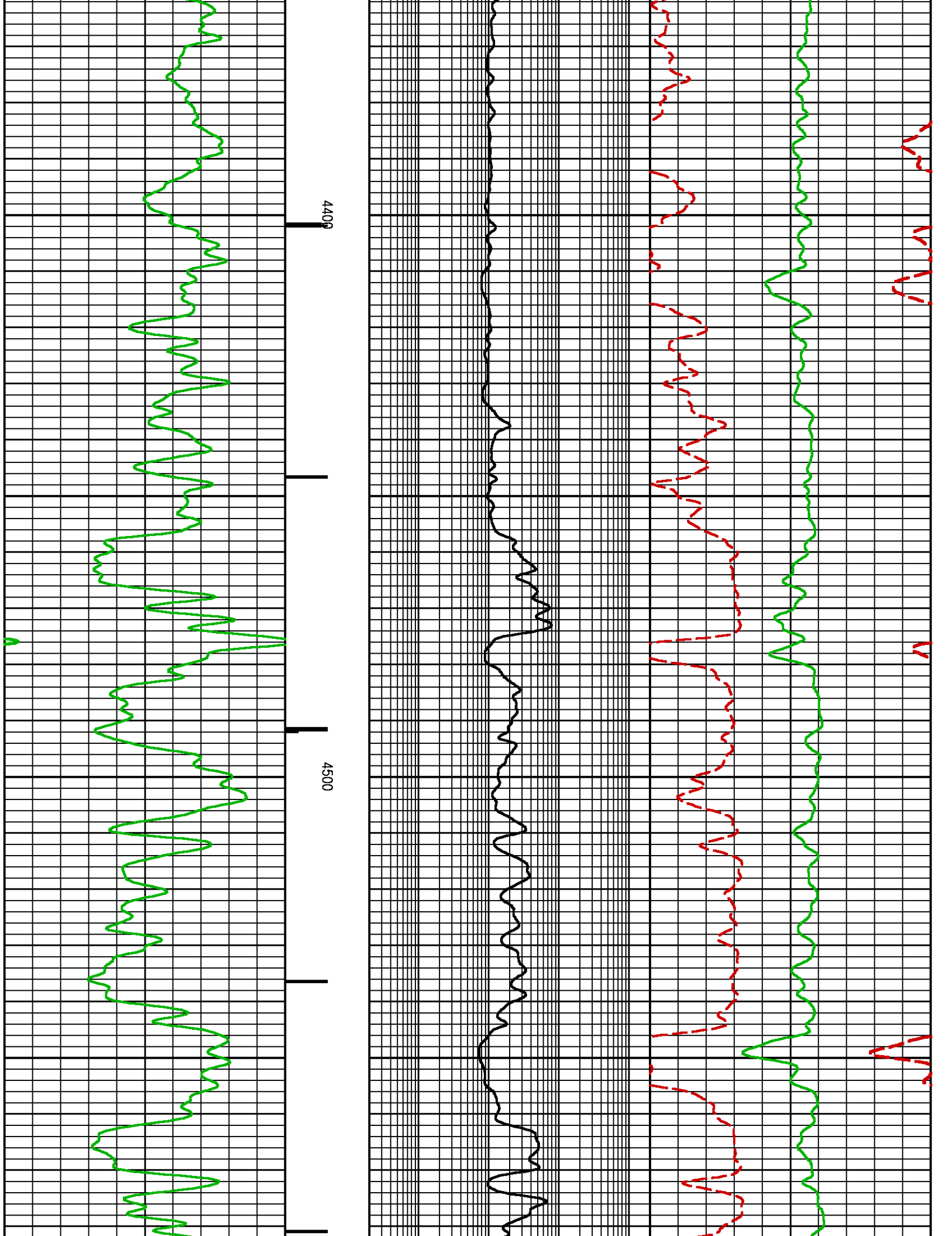
(FRAC)

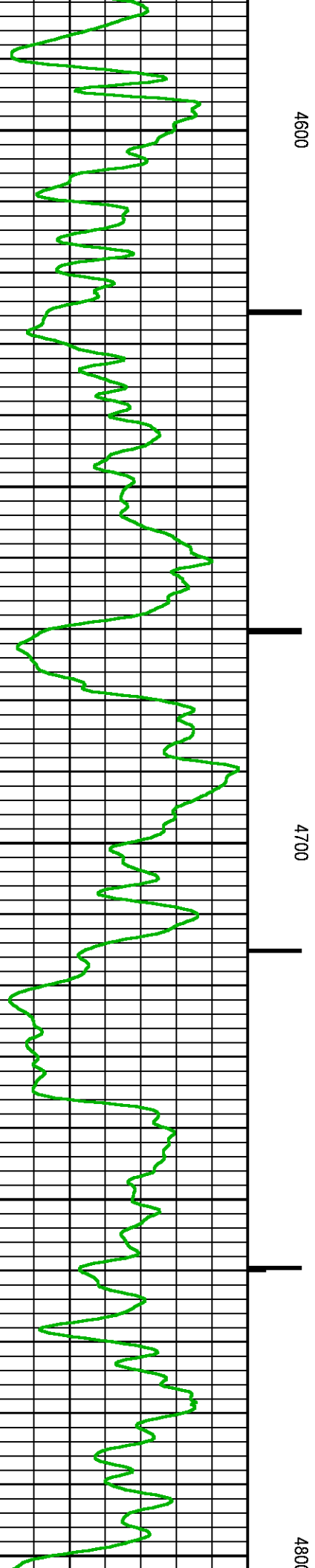
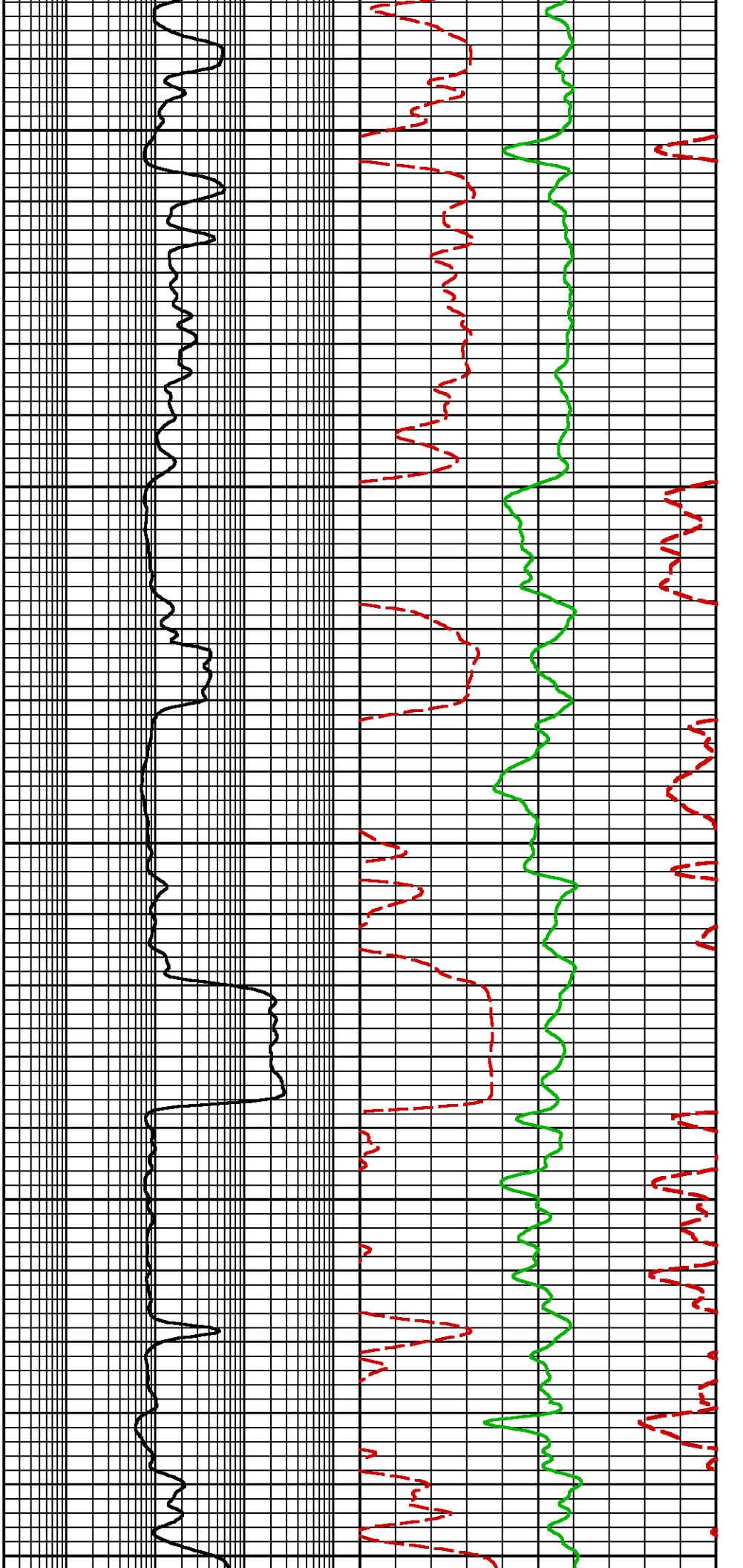
NEO RESULTS FOR GUNDERSON BCU 20-10E (MAIN)

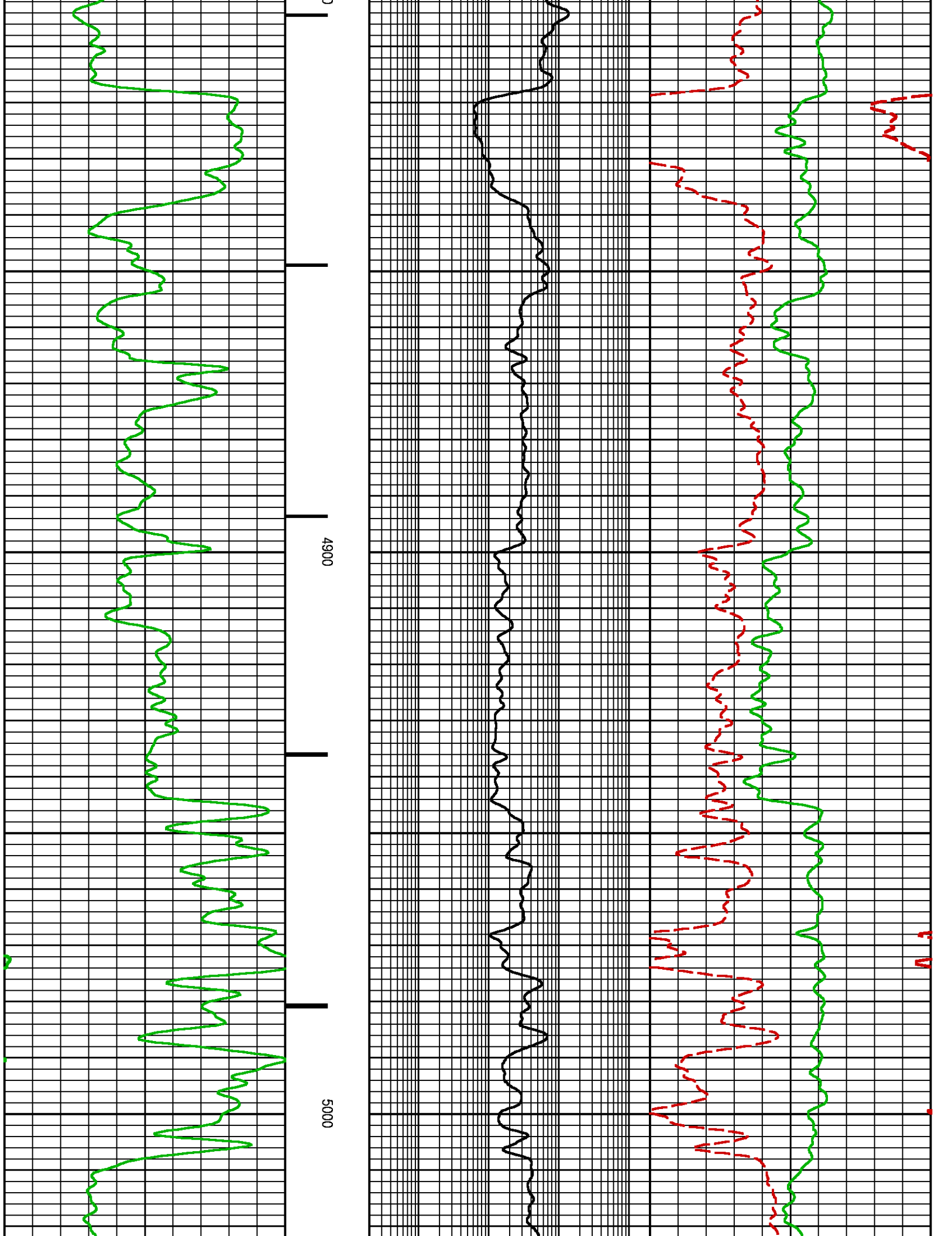
Project : NA
User : ellskima
Presentation : BHI3BKZH12:C:\Ape_Projects\laramie_gunderson_20_10e\NEO_PRESENTATION_LARAMIE_MAIN.pdf [5"/100" Scale]
Plot Interval : 4260 - 7933 Feet

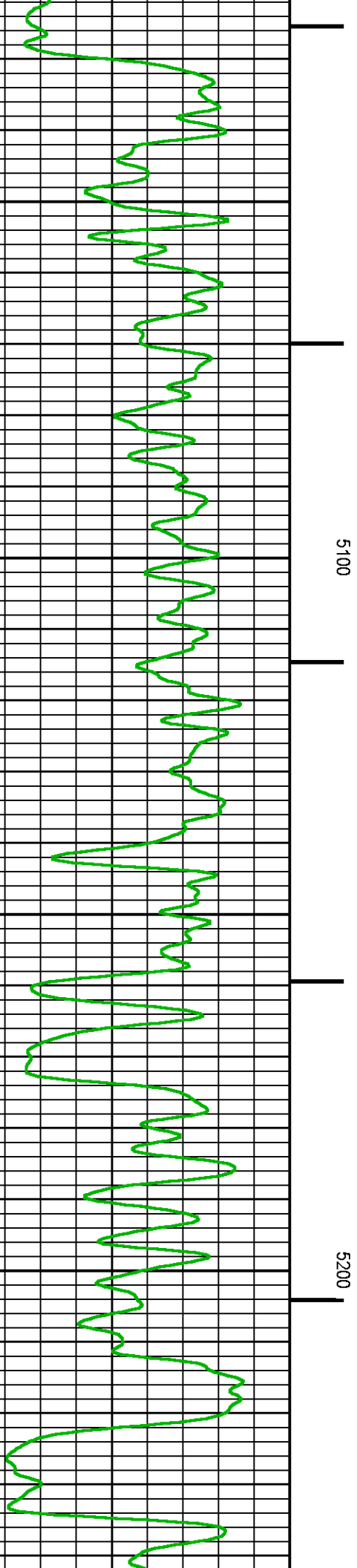
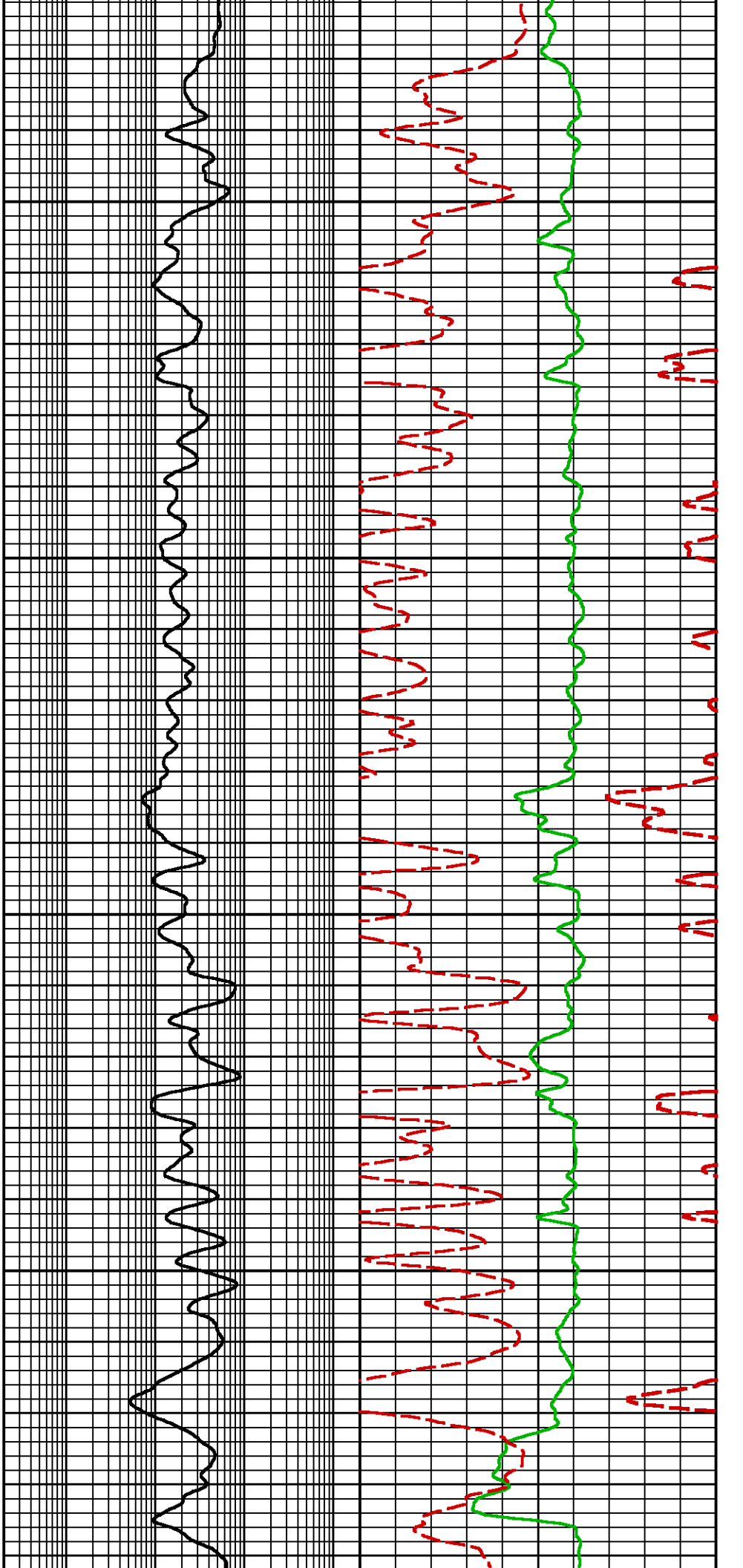
Data File 1 : F1 : BHI3BKZH12:C:\Ape_Projects\laramie_gunderson_20_10e\Merged_Set_Final.xtf
Created On : N/A
Company : LARAMIE ENERGY
Well : GUNDERSON 20-10E
Field : VEGA
File Interval : 2317 - 7933 Feet
OCT : NA

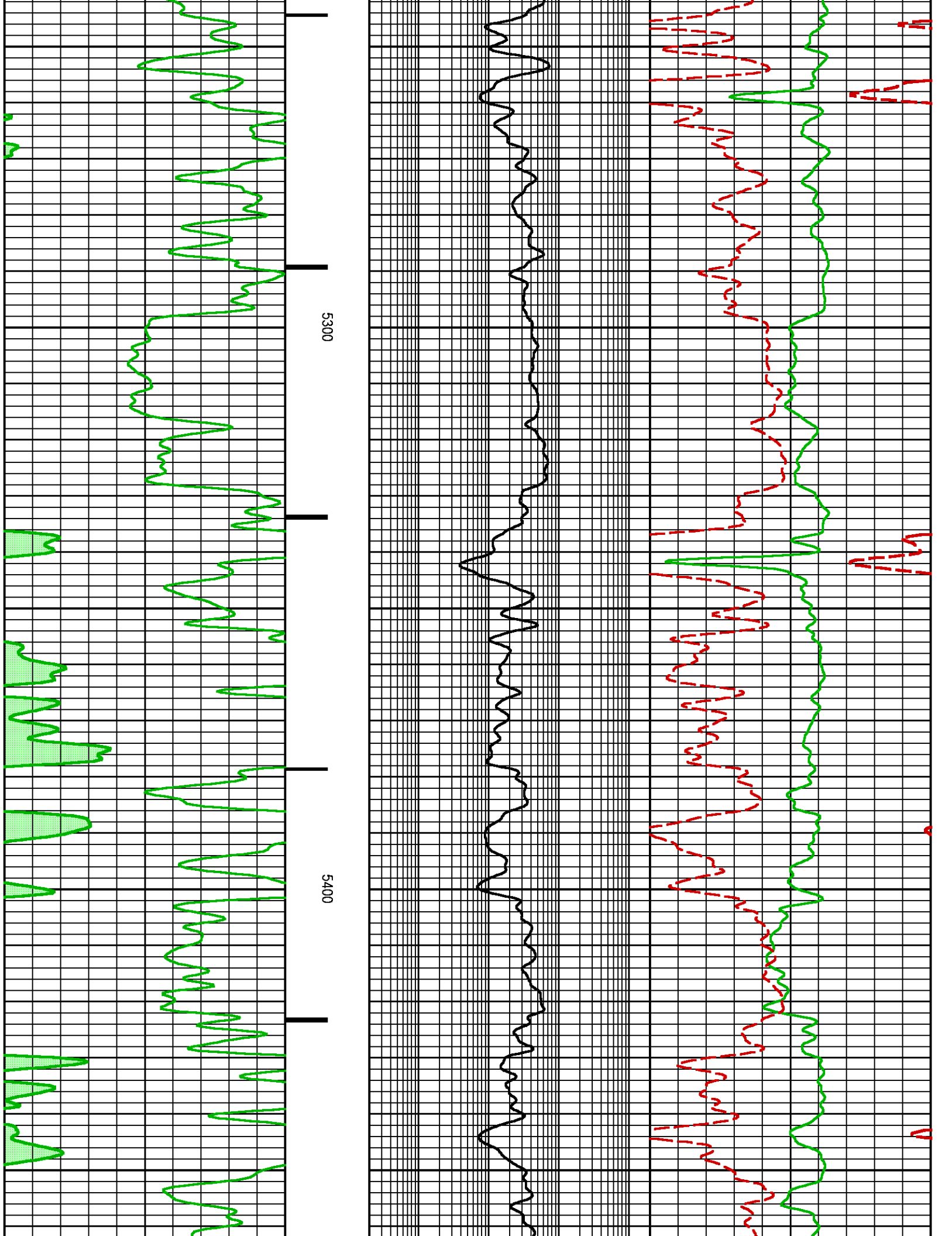


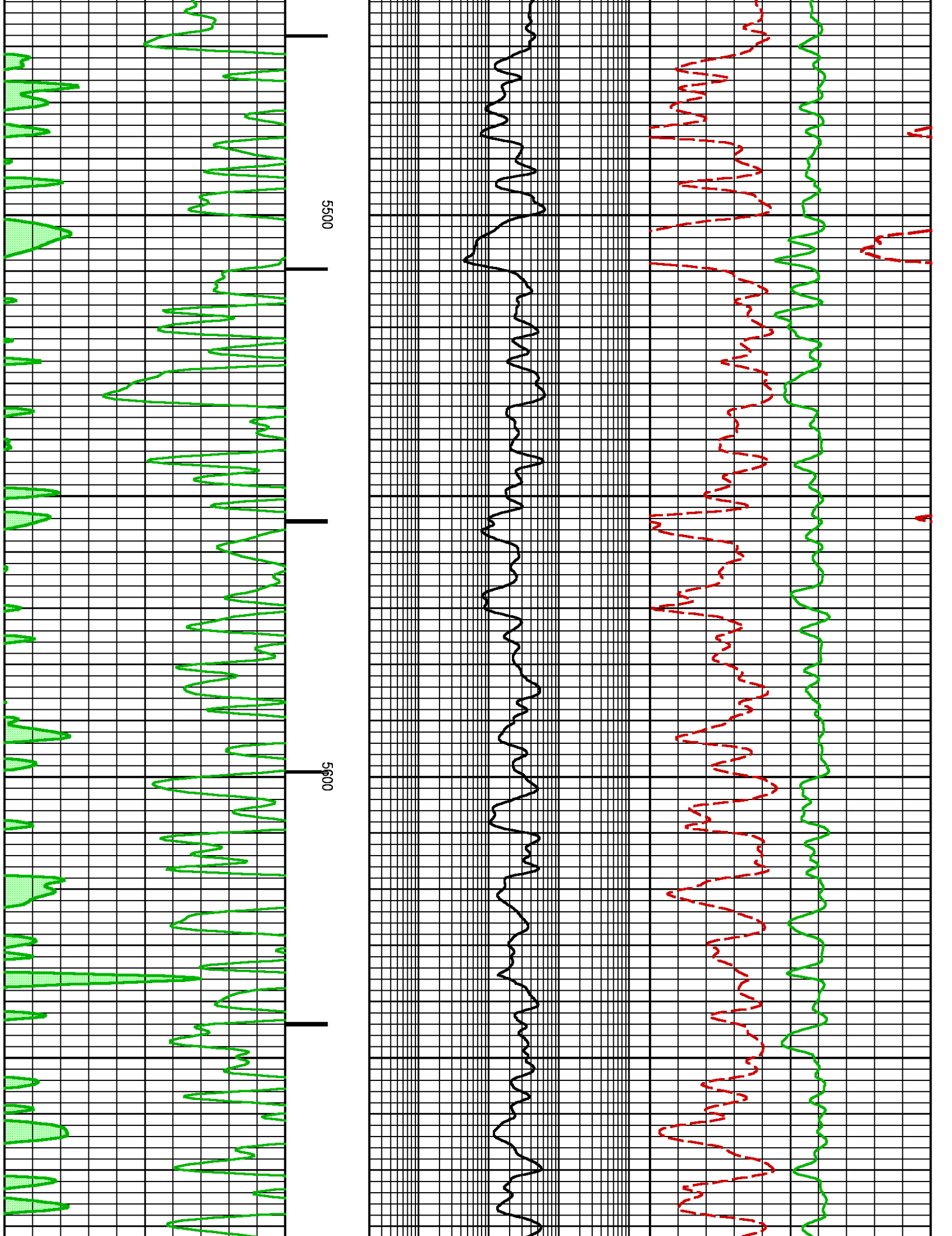


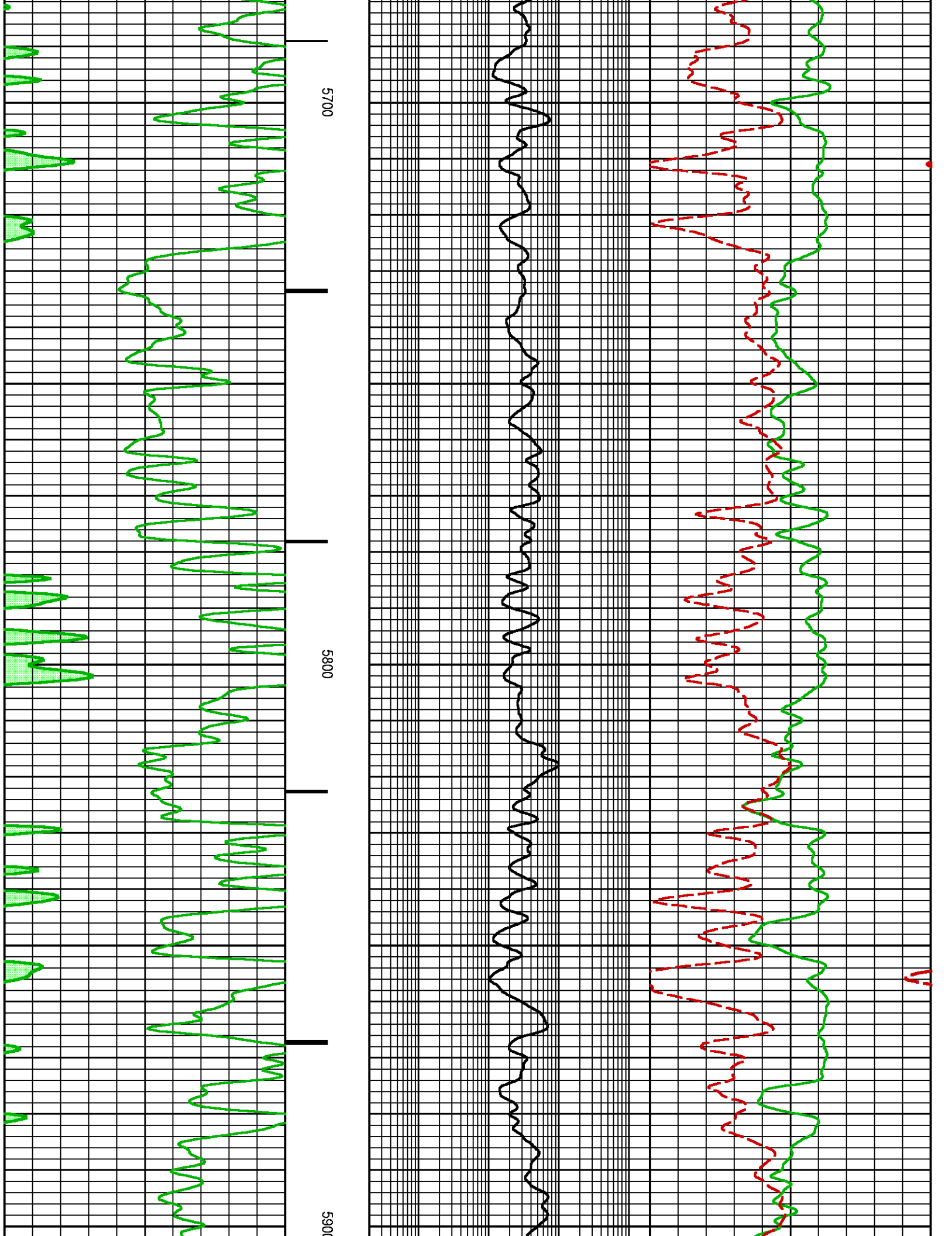


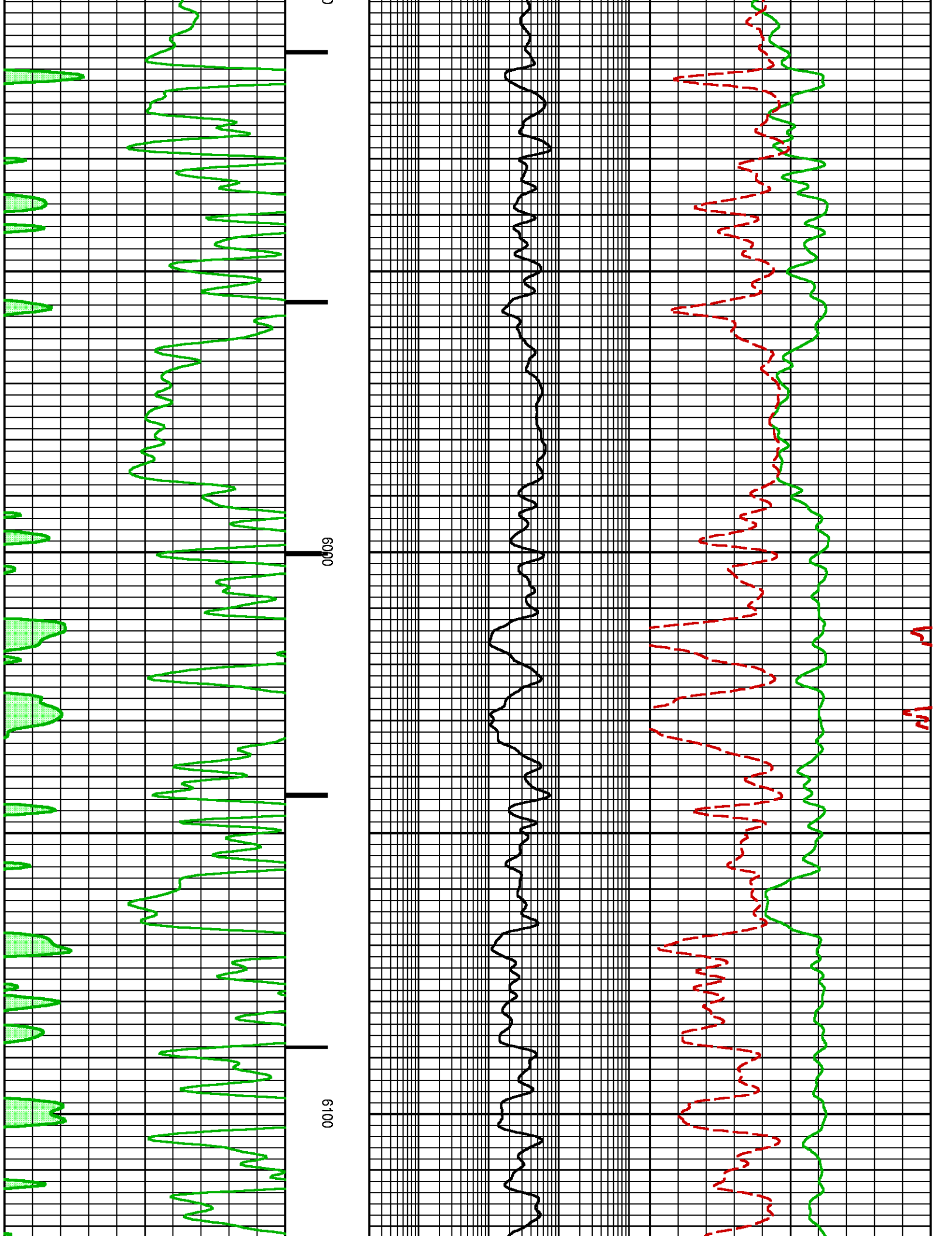


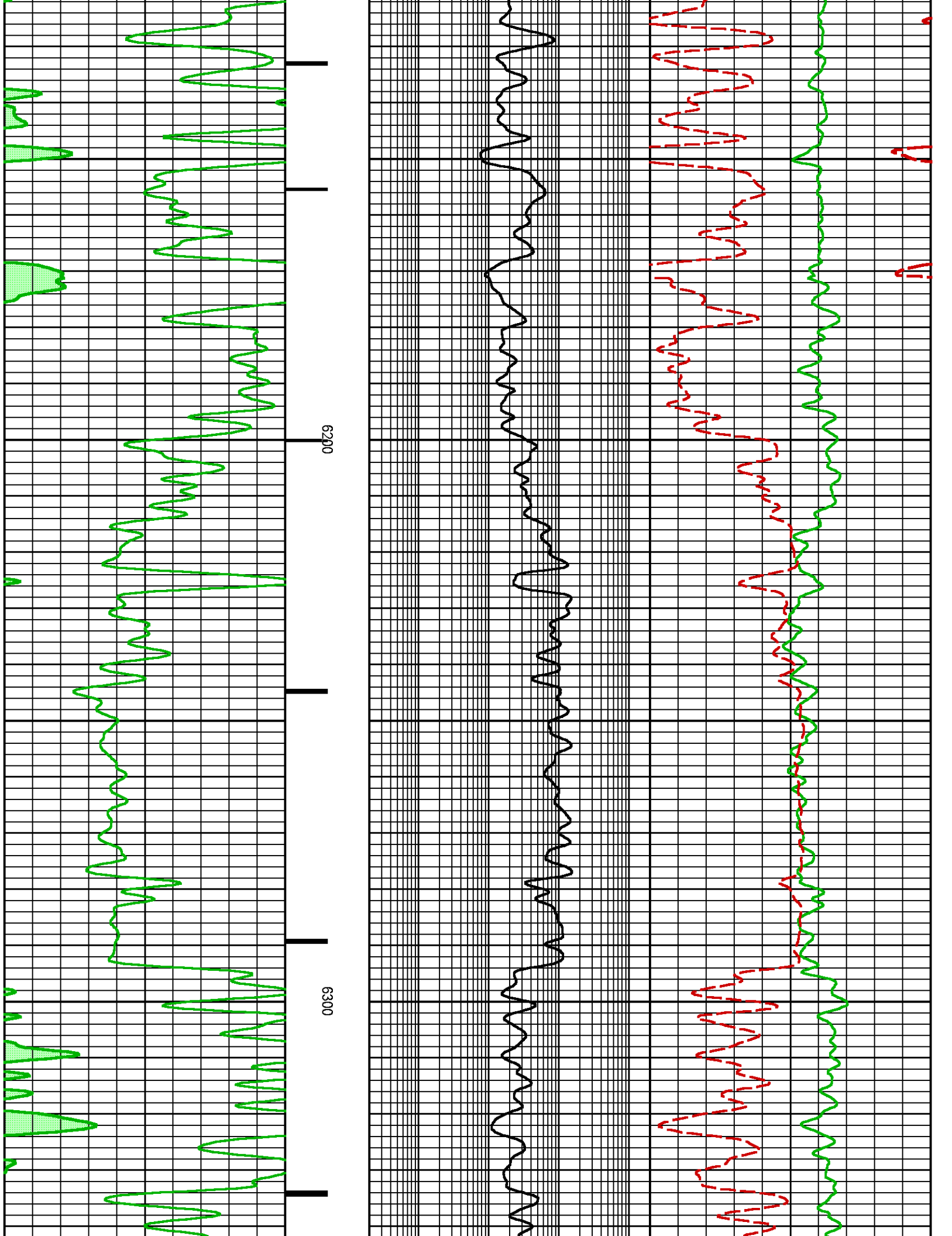


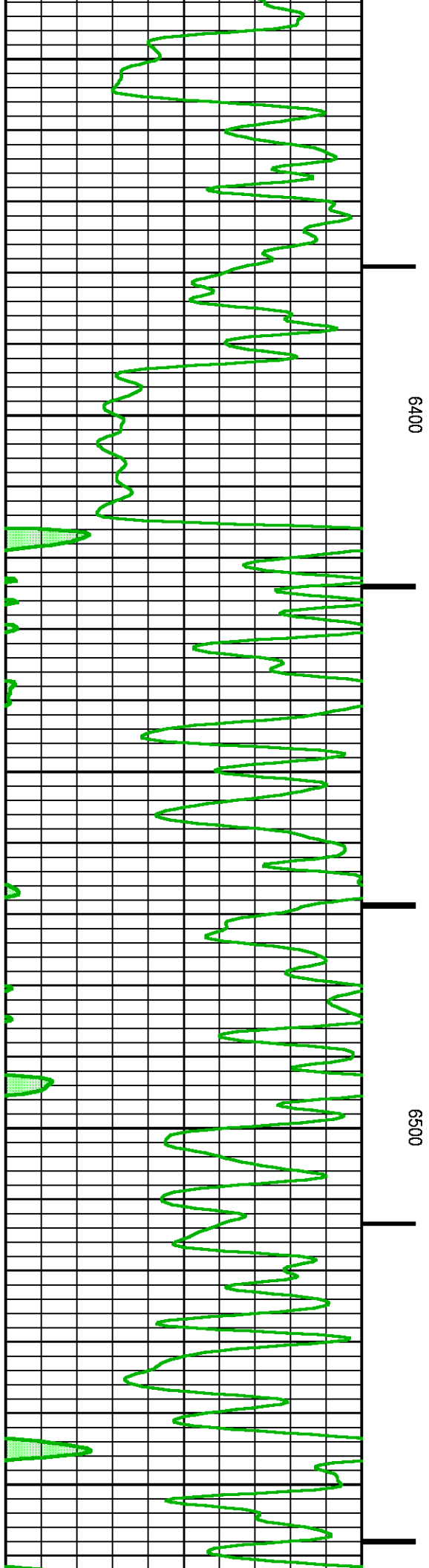
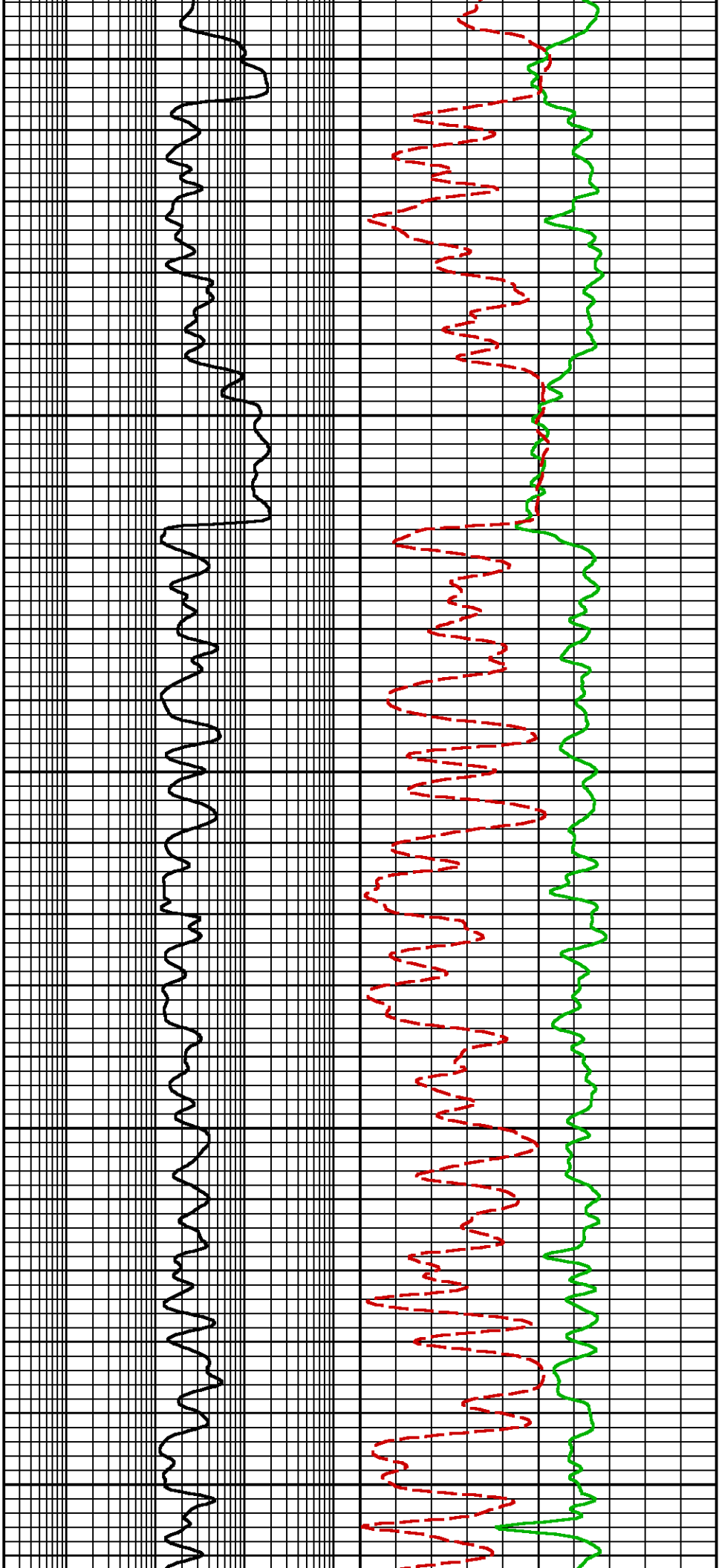


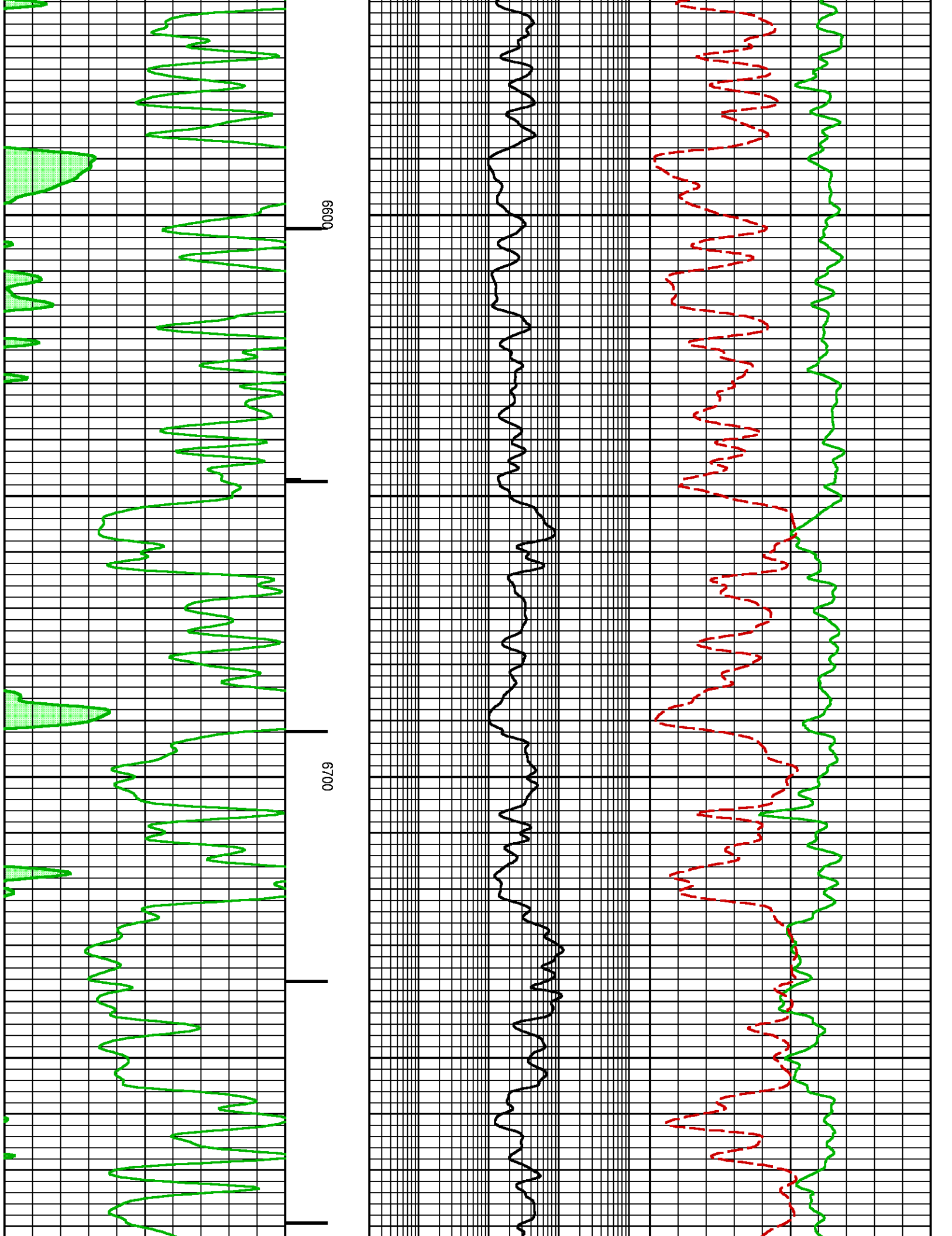


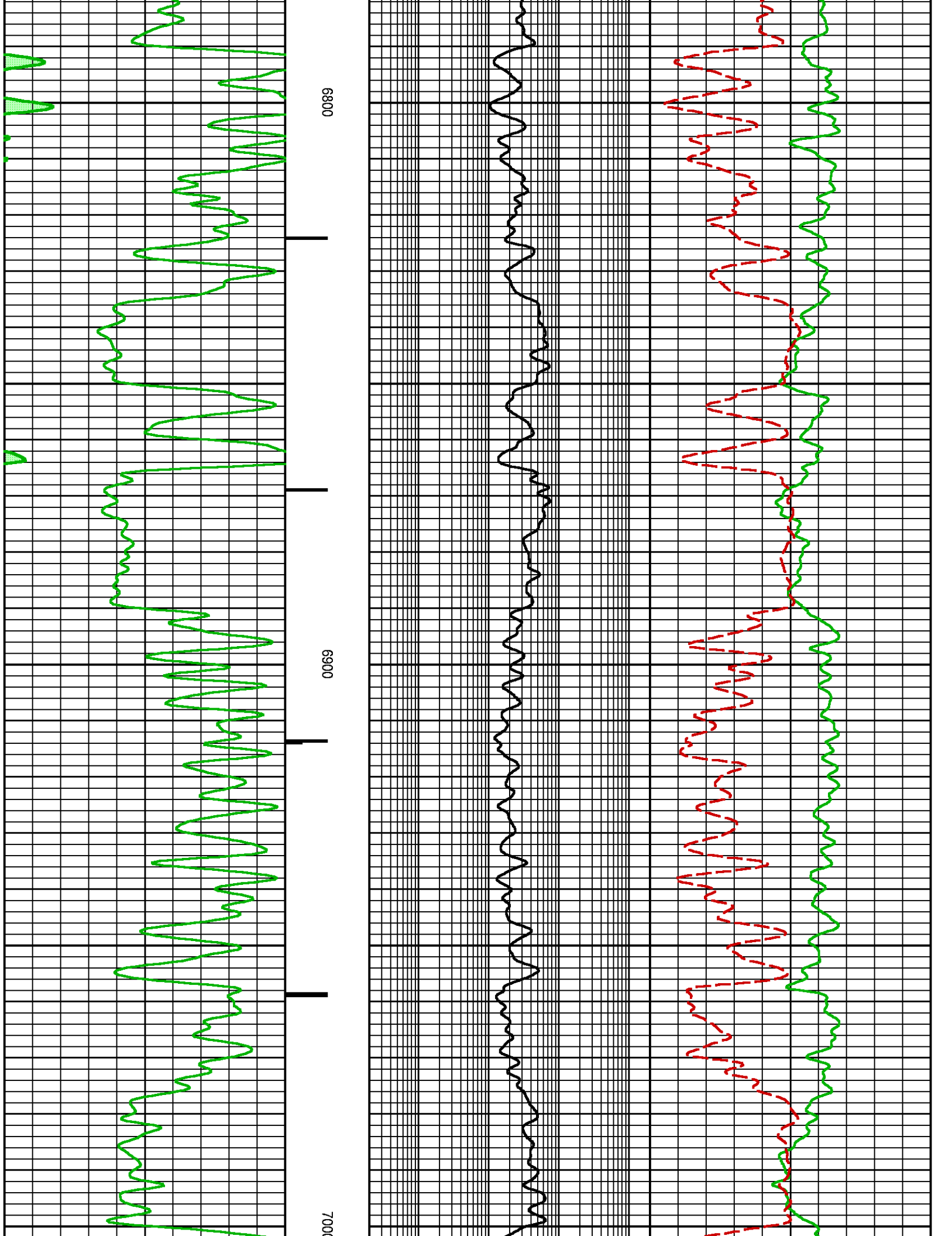


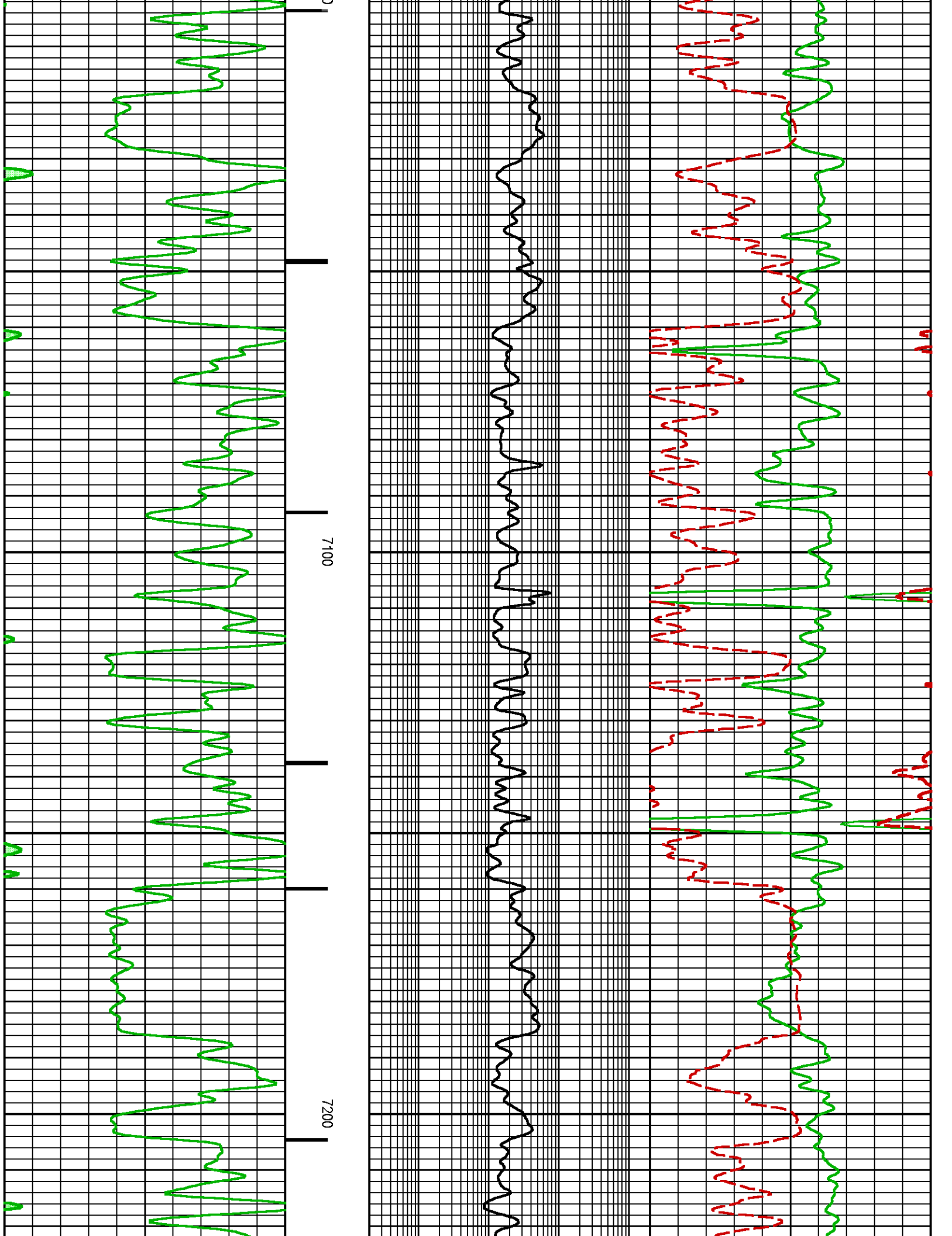


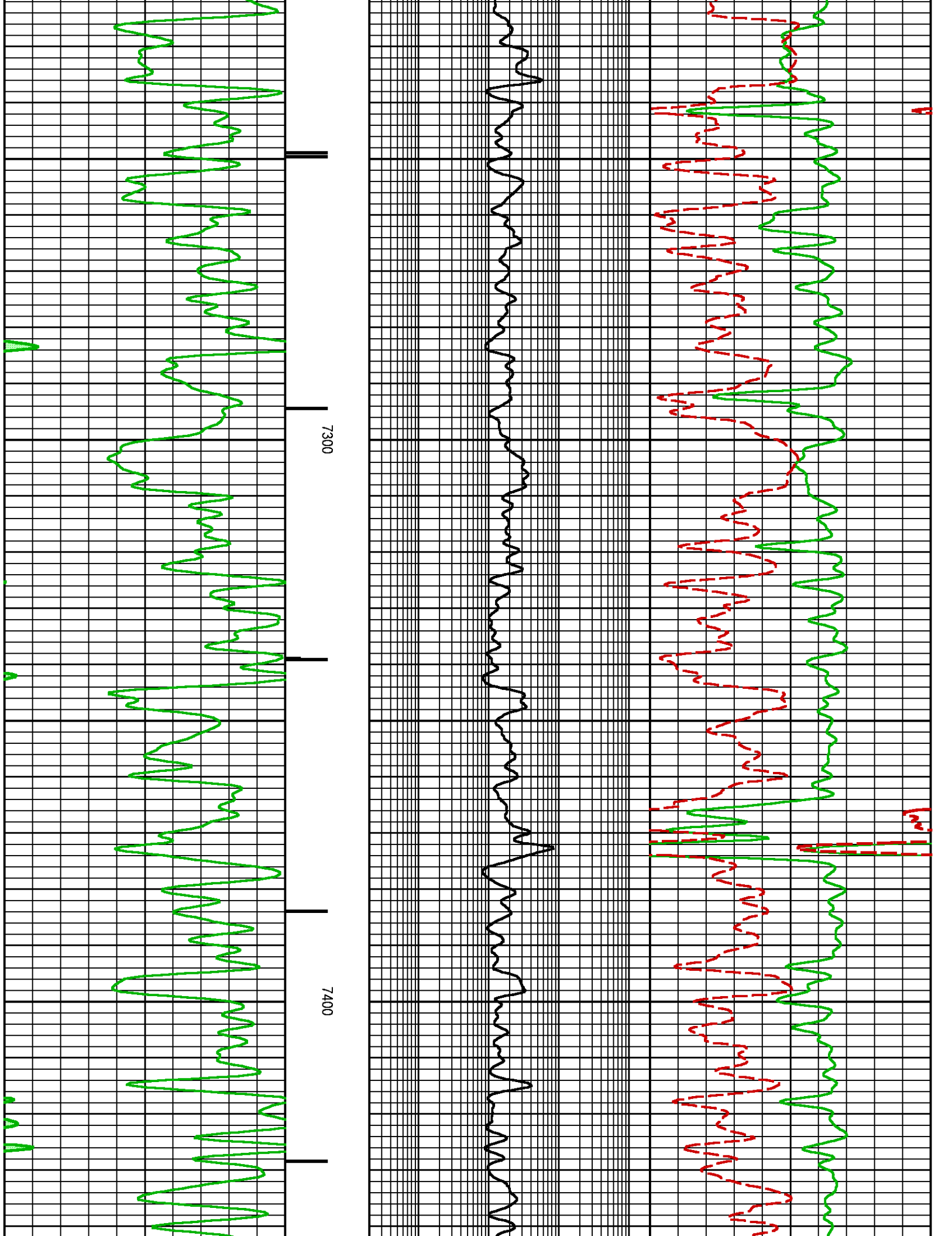


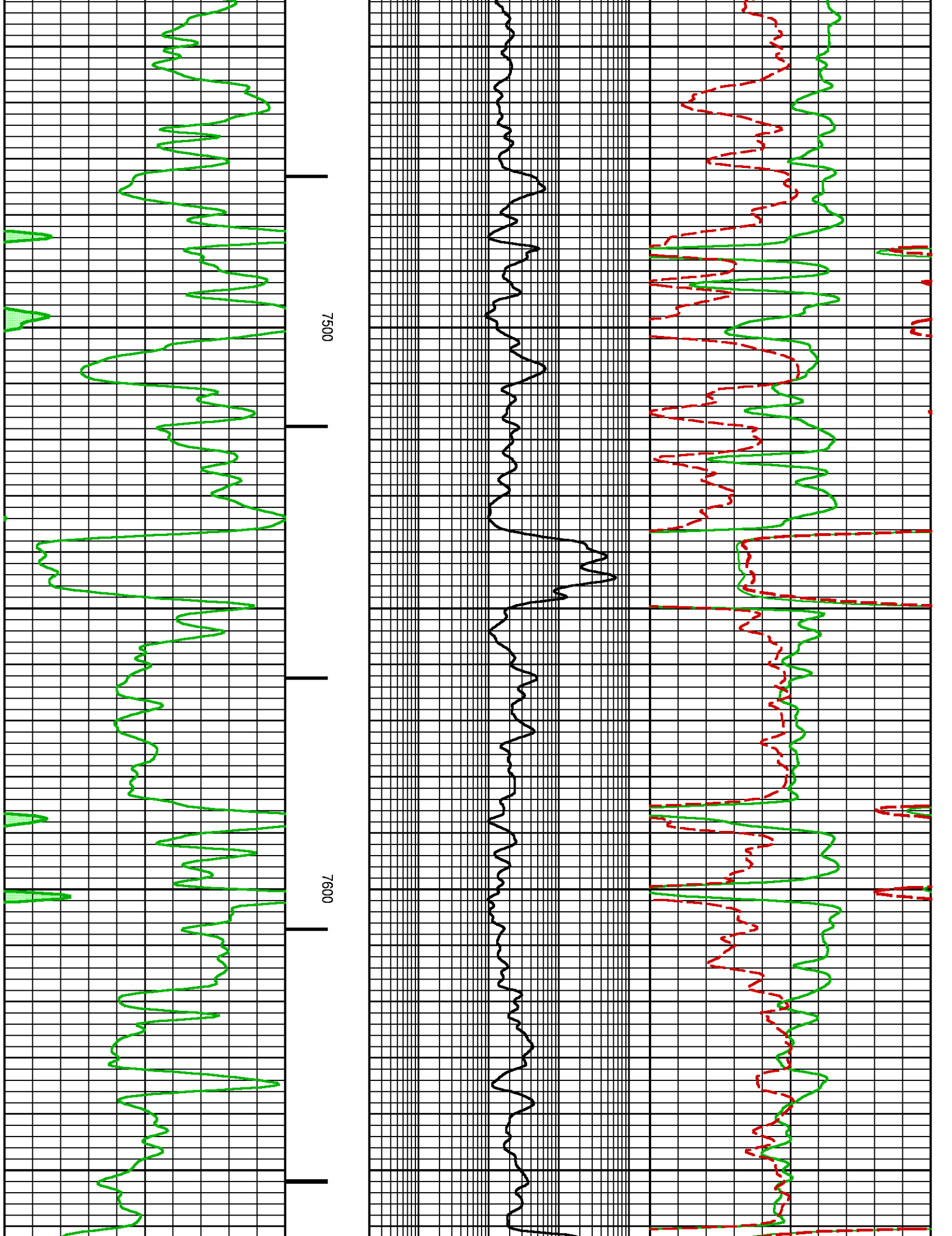


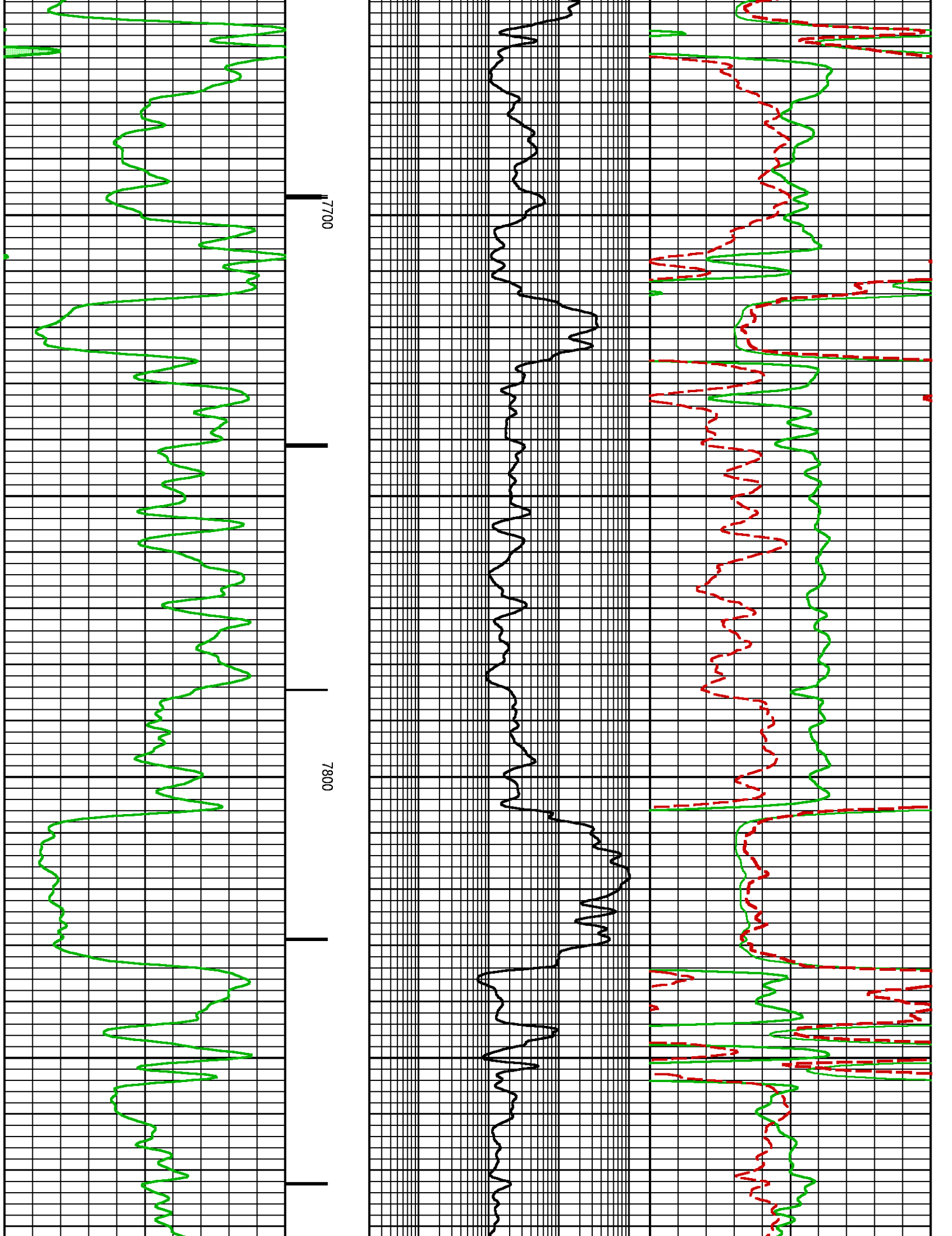


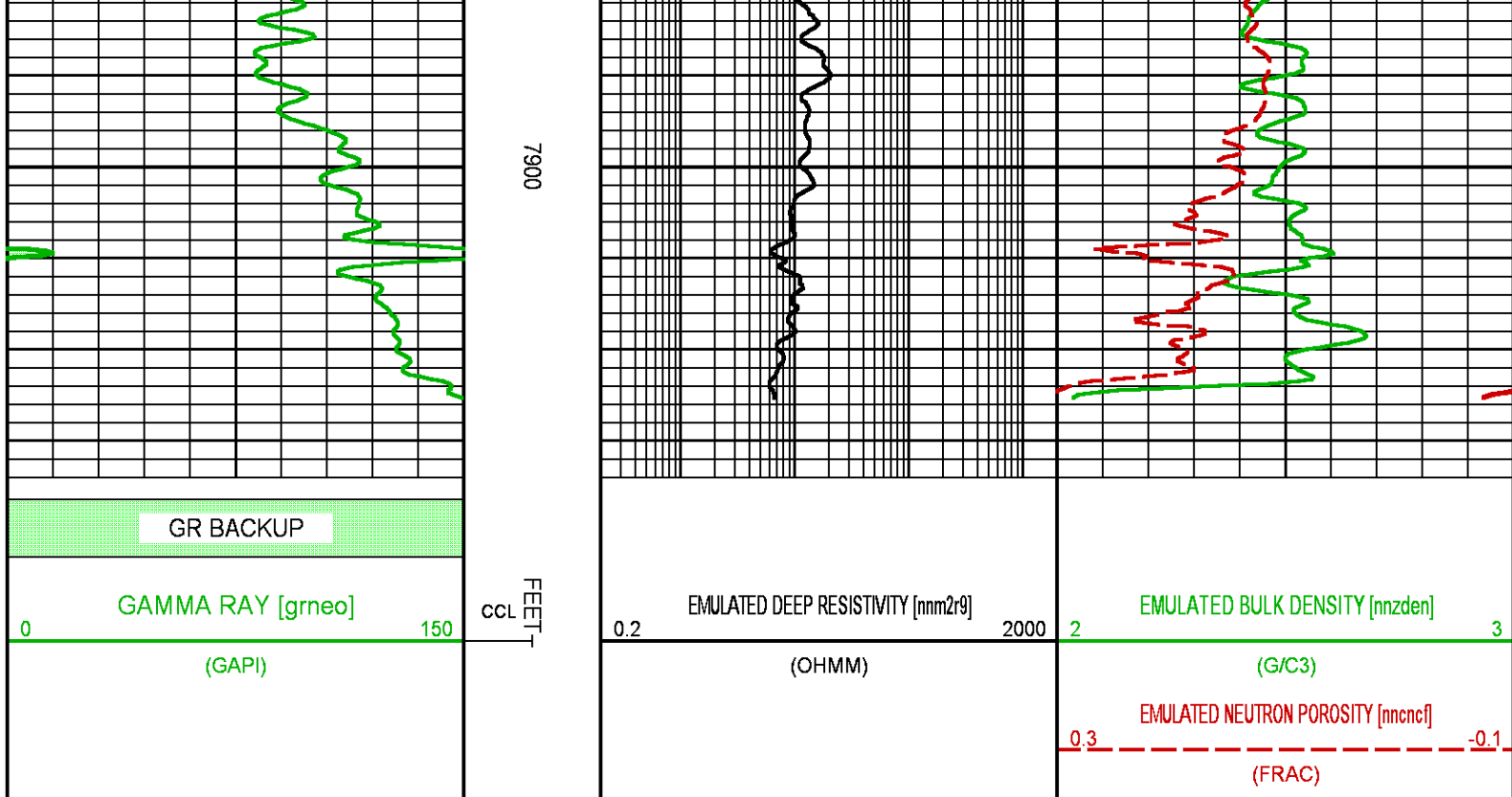



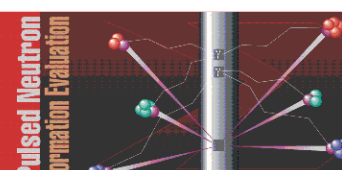










 	COMPANY <u>LARAMIE ENERGY</u> WELL <u>GUNDERSON BCU 20-10E</u> FIELD <u>VEGA</u> COUNTY <u>MESA</u> STATE <u>COLORADO</u>	FILE NO: _____ API NO: <u>05-077-10353-0000</u>
	LOCATION: <u>SEE REMARKS</u> SEC <u>20</u> TWP <u>9S</u> RGE <u>93W</u>	ELEVATIONS: KB 7176 FT DF 7176 FT GL 7146 FT DATE 11-SEP-2017