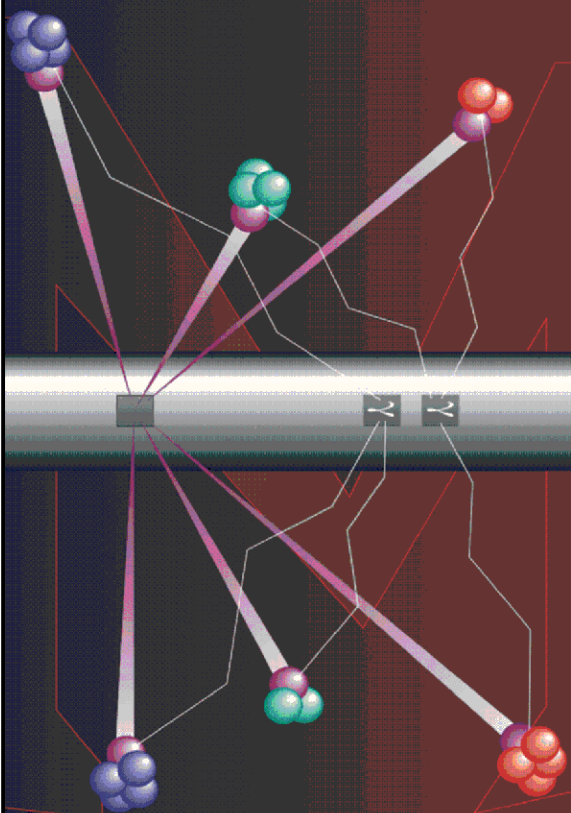


# Pulsed Neutron Formation Evaluation



## RESERVOIR PERFORMANCE MONITOR NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY LLC

WELL BCU 0993-21-04W

FIELD BUZZARD CREEK

COUNTY MESA STATE COLORADO

LOCATION: SEE REMARKS

SEC 21 TWP 9S RGE 93W

ELEVATIONS:

KB 7287 FT DF GL 7257 FT

DATE 30-NOV-2018 ECC 145366

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>30-NOV-2018</u>
FIELD DATA	LOCATION: <u>GRAND JUNCTION</u>	ENGINEER: <u>TIM NEWELL</u>	DATE: <u>27-NOV-2018</u>
FROM	TO		
<u>2150 FT</u>	<u>7616 FT</u>		

### REMARKS

LOCATION: SHL: 871' FNL & 1321' FWL

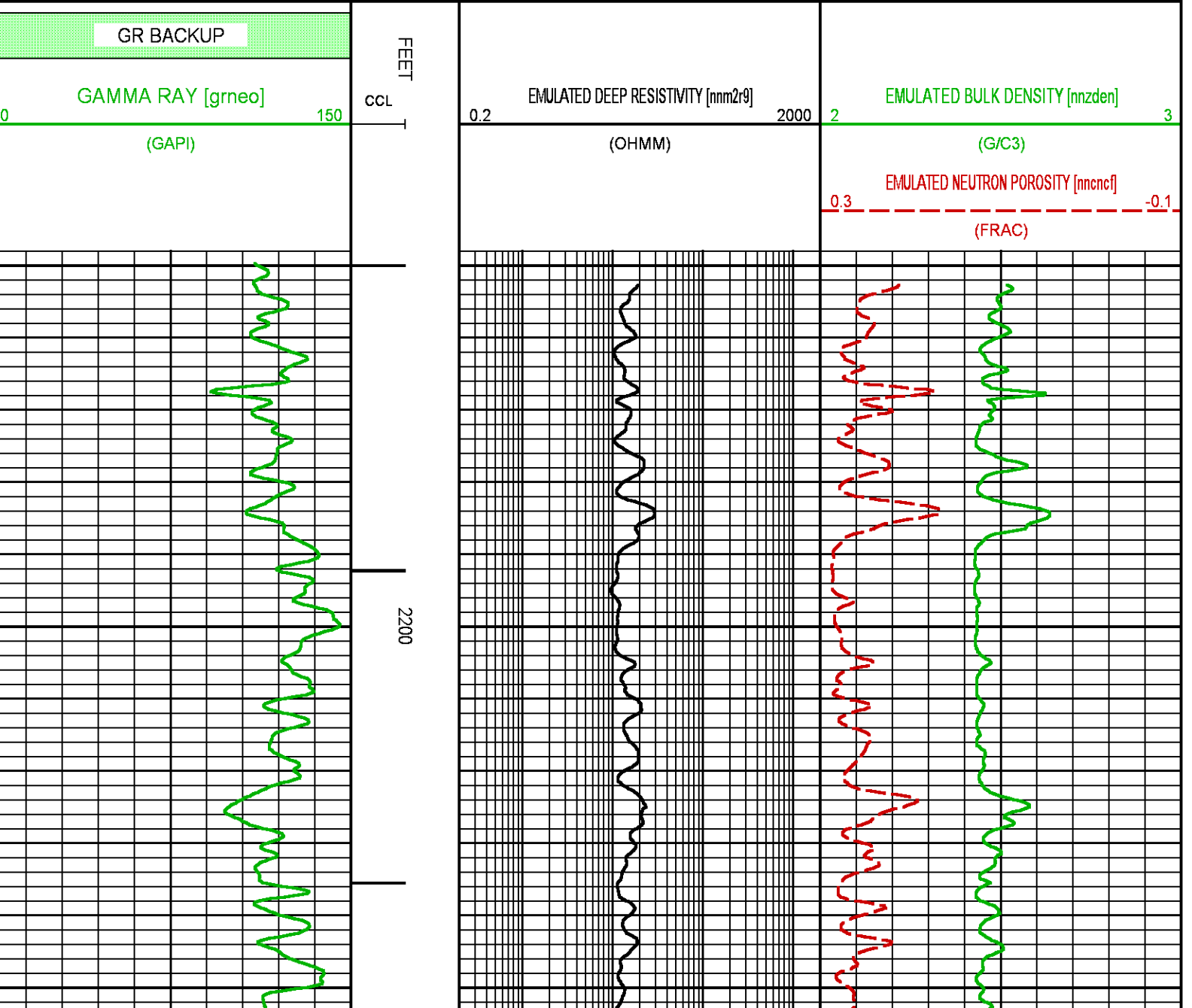
TRAINING WELL:  
BCU 0993-21-08W

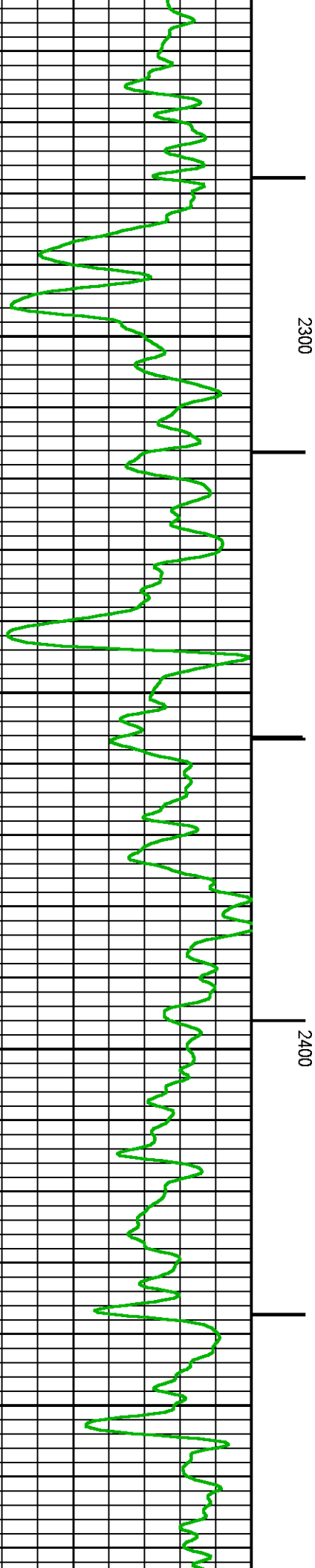
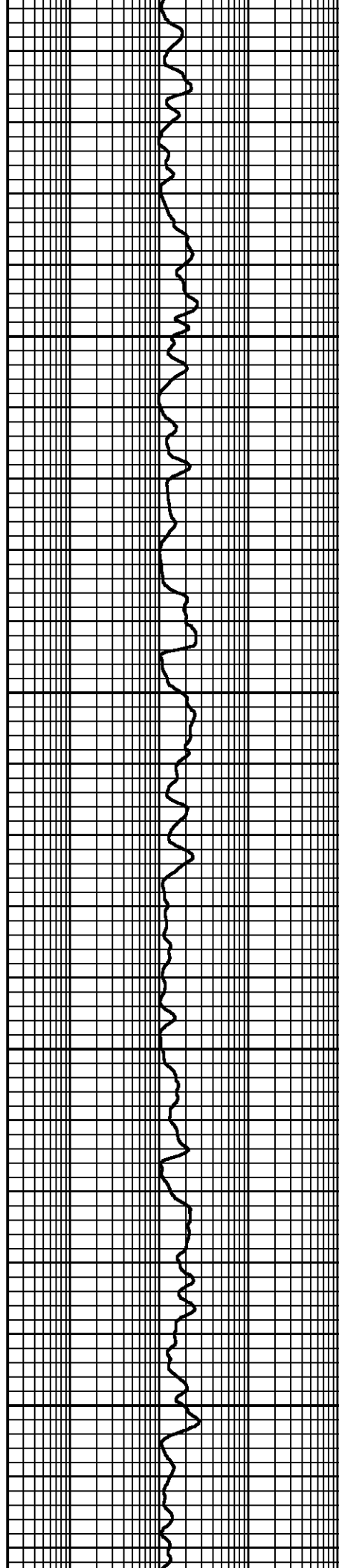
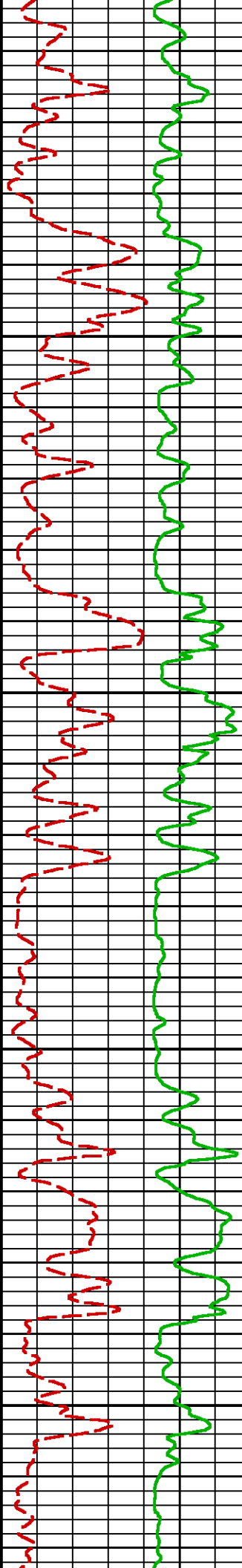
ANY ERRORS IN THE TRAINING WELL OPENHOLE DATA CAN PERETUATE THROUGH AS ERROR IN THE EMULATED RESULTS

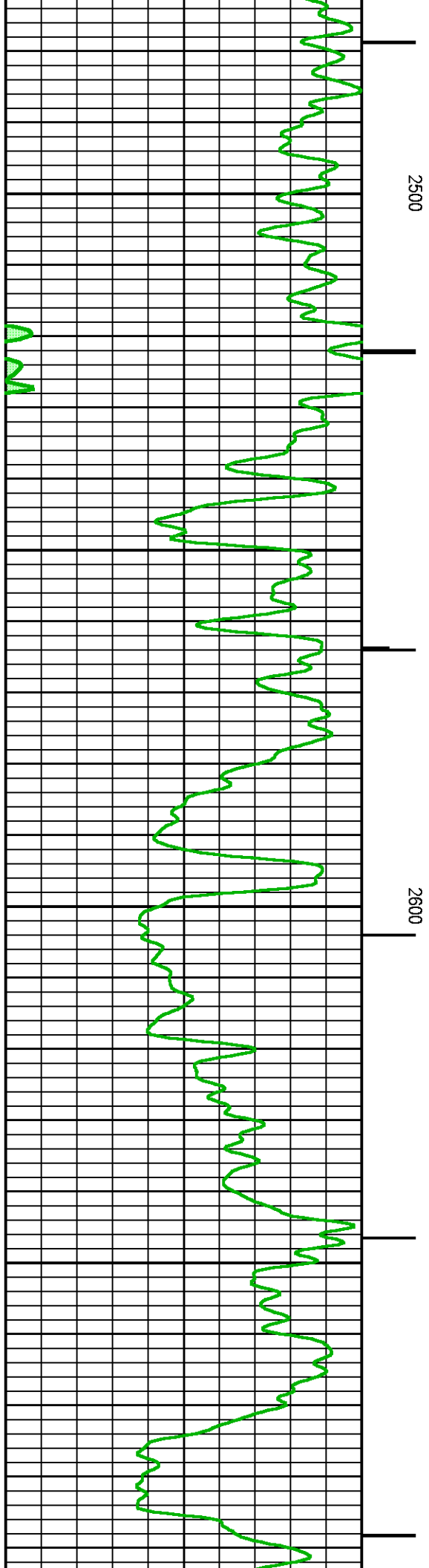
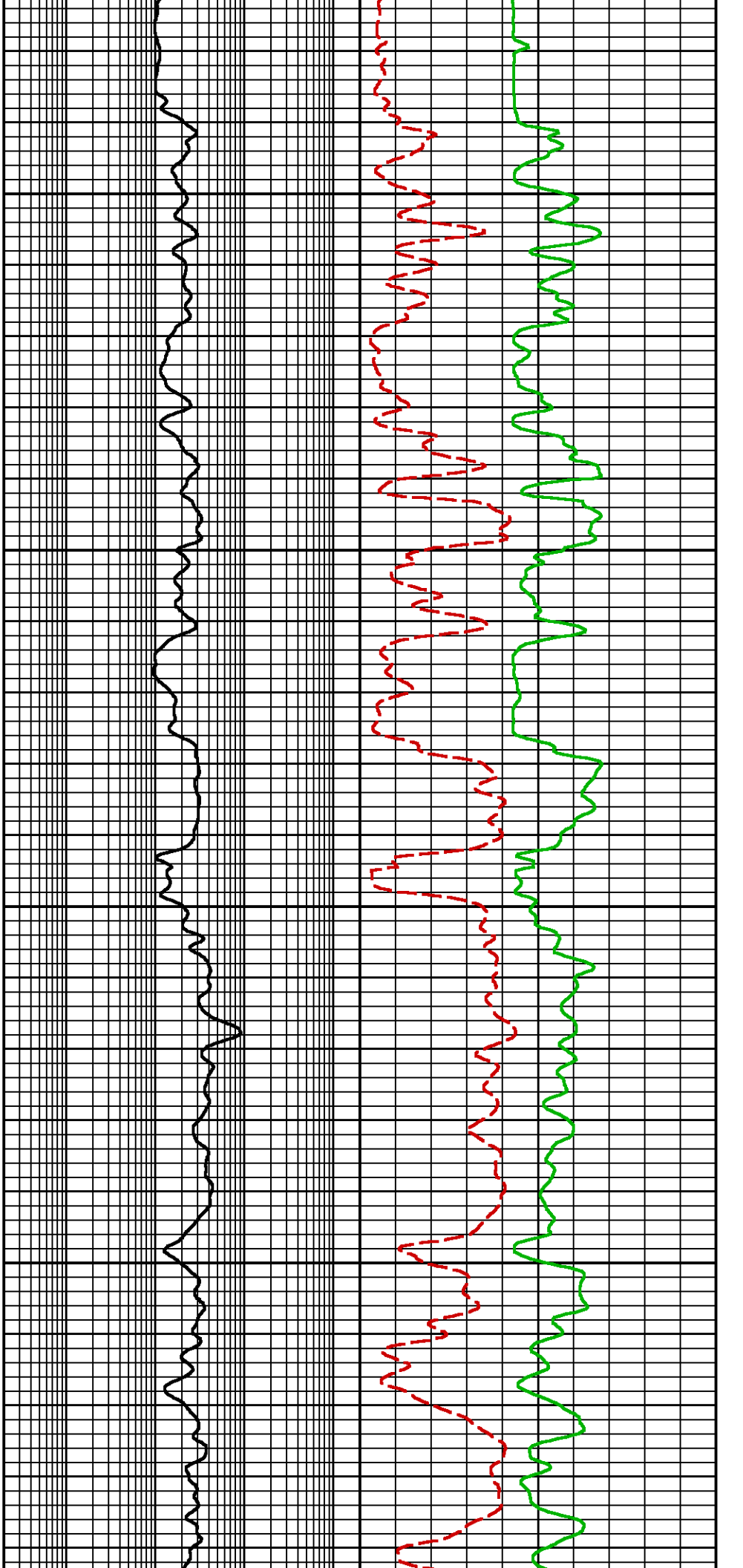
BOND LOG IS THE DEPTH REFERENCE LOG.

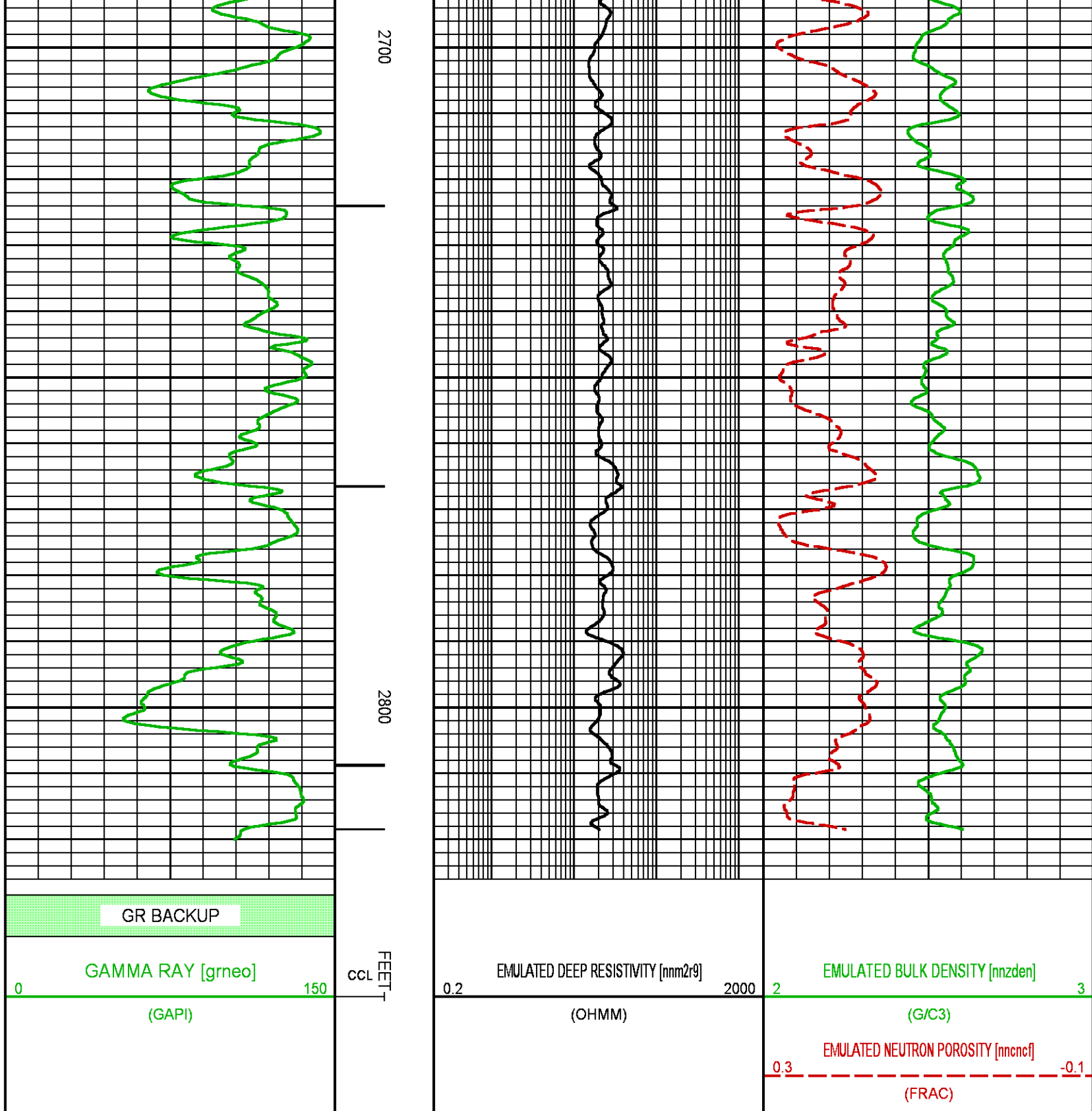
NEO RESULTS FOR BCU 0993-21-04W (G-SAND)

Project : NA  
User : ellskima  
Presentation : BHI3BKZH12:C:\Ape Projects\laramie\_bcu\_21\_04w\NEO PRESENTATION\_LARAMIE\_G-Sand.pdf [5"/100' Scale]  
Plot Interval : 2149.75 - 2825 Feet  
  
Data File 1 : F1 : BHI3BKZH12:C:\Ape Projects\laramie\_bcu\_21\_04w\Merged\_Set\_Final.xtf  
Created On : N/A  
Company : LARAMIE ENERGY LLC  
Well : BCU 0993-21-04W  
Field : BUZZARD CREEK  
File Interval : 2149.75 - 7615.75 Feet  
OCT : NA





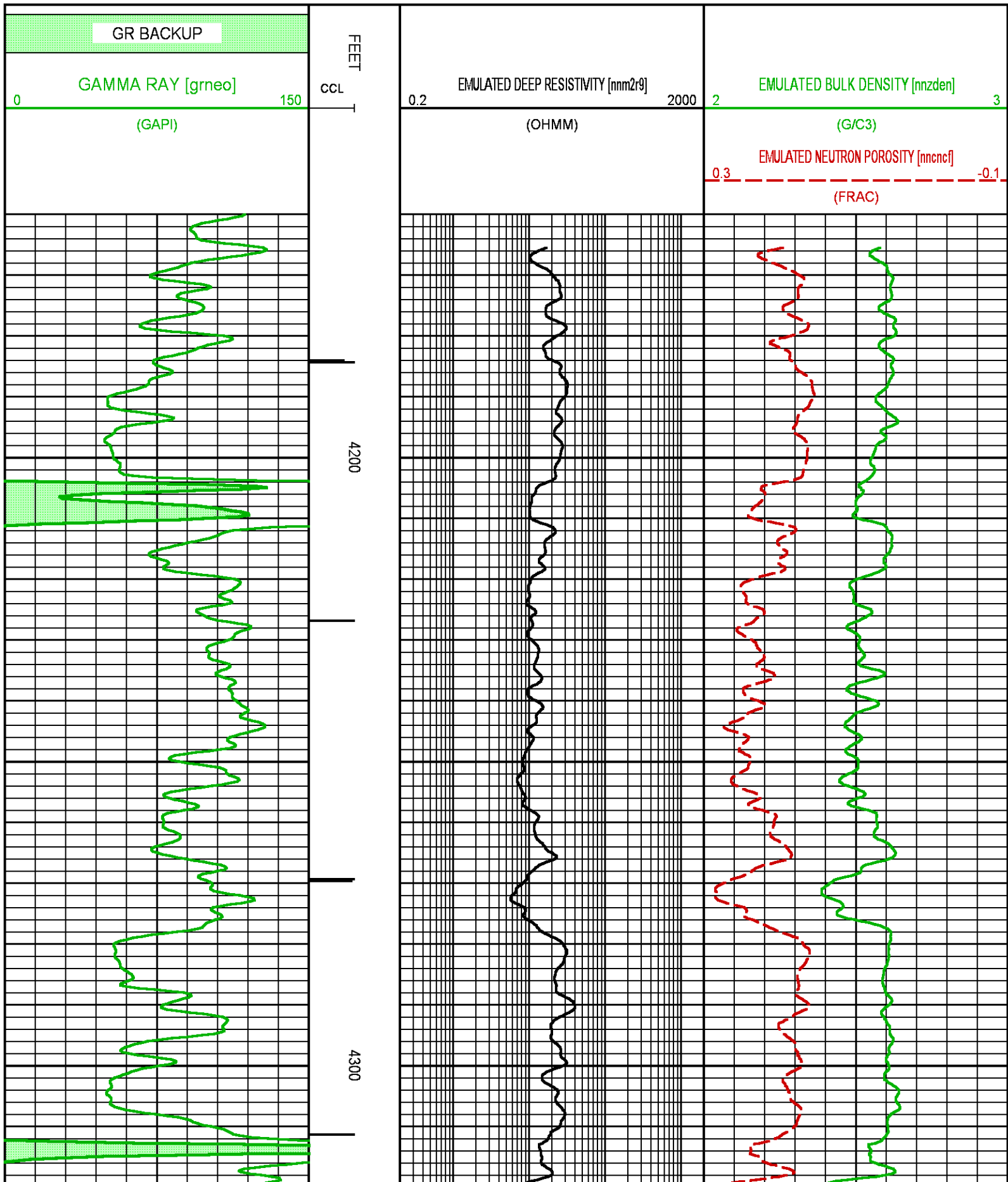


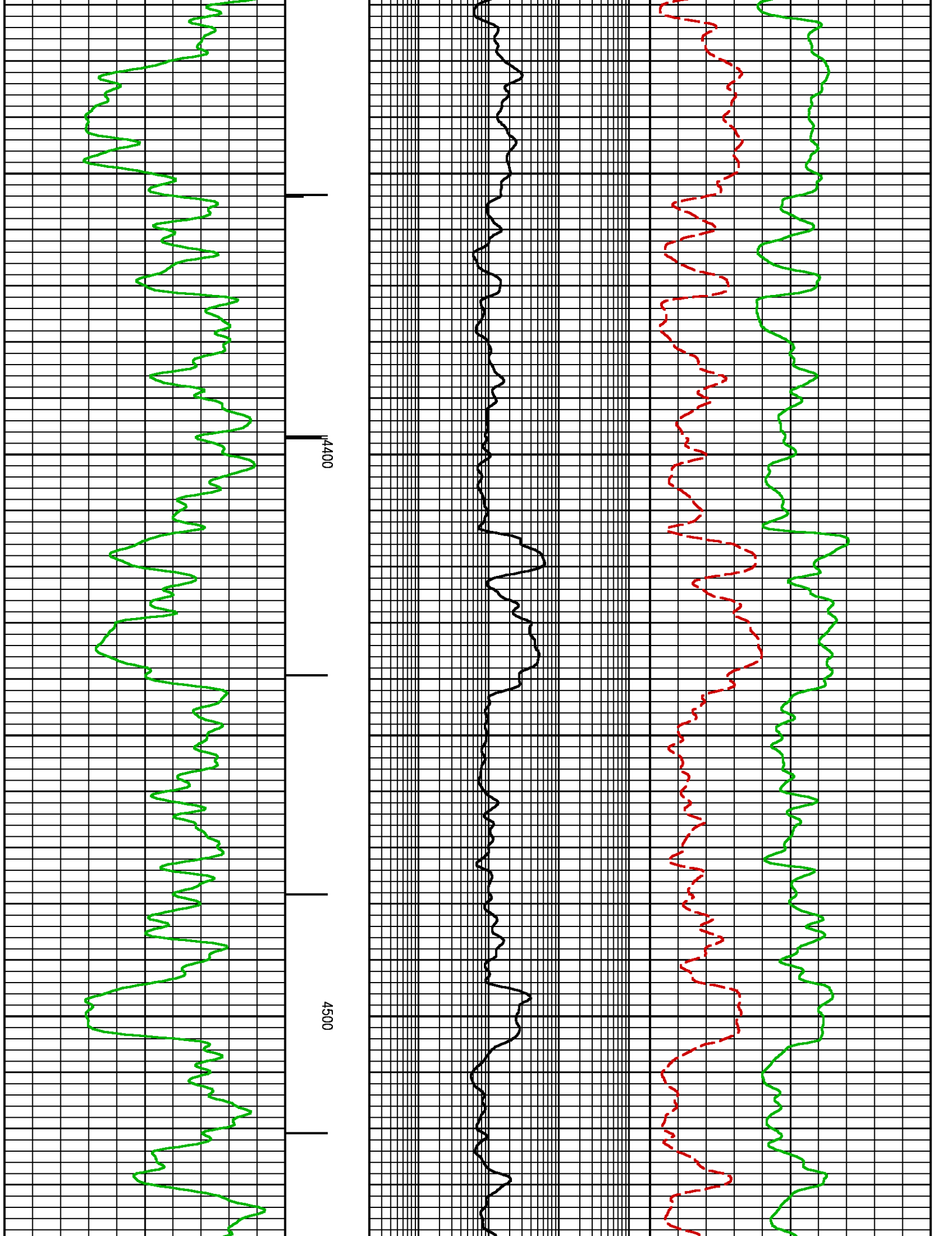


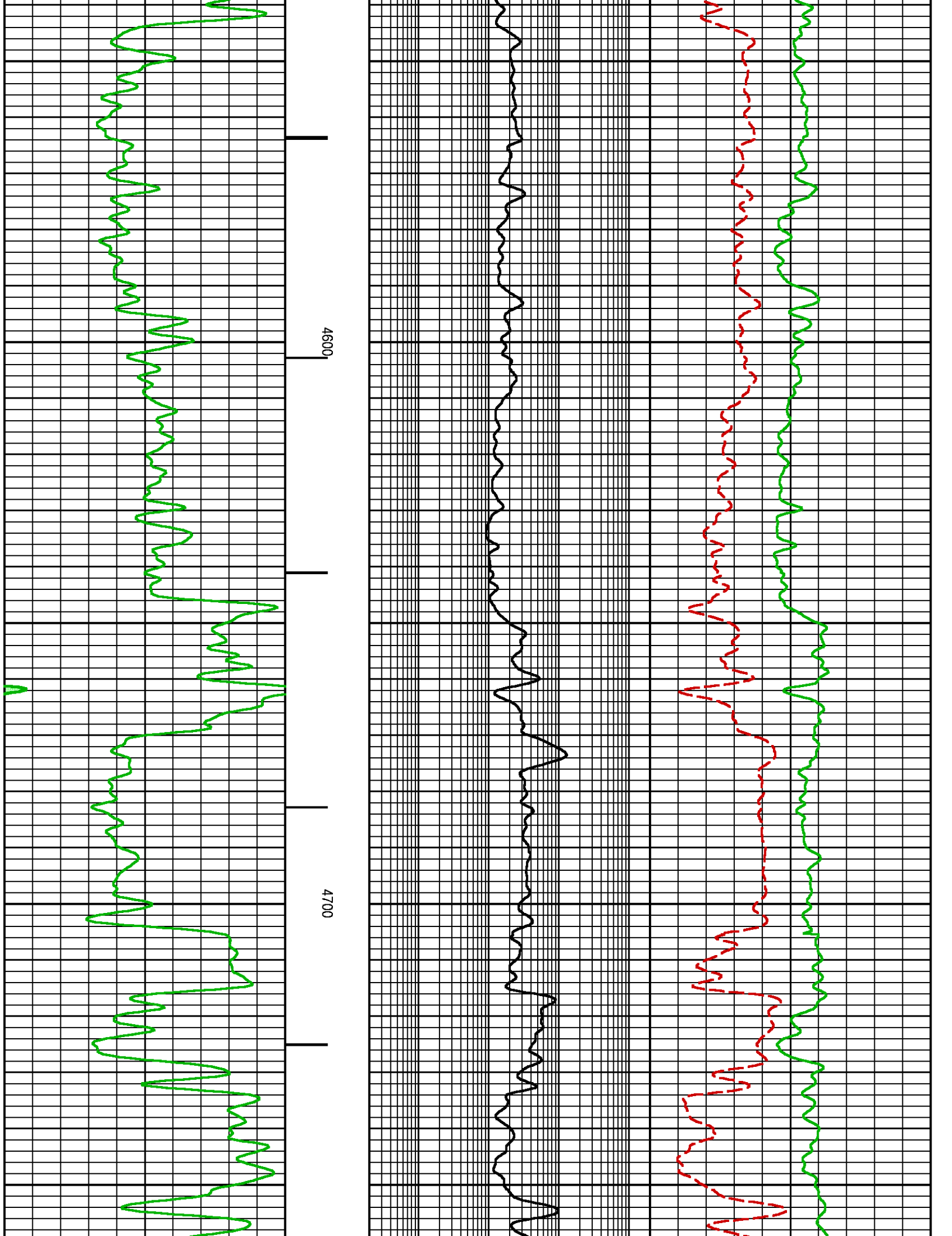
## NEO RESULTS FOR BCU 0993-21-04W (MAIN)

Project : NA  
User : ellskima  
Presentation : BHI3BKZH12:C:\Ape Projects\laramie\_bcu\_21\_04w\ NEO PRESENTATION\_LARAMIE\_MAIN.pdf [5"/100' Scale]  
Plot Interval : 4160 - 7615.75 Feet

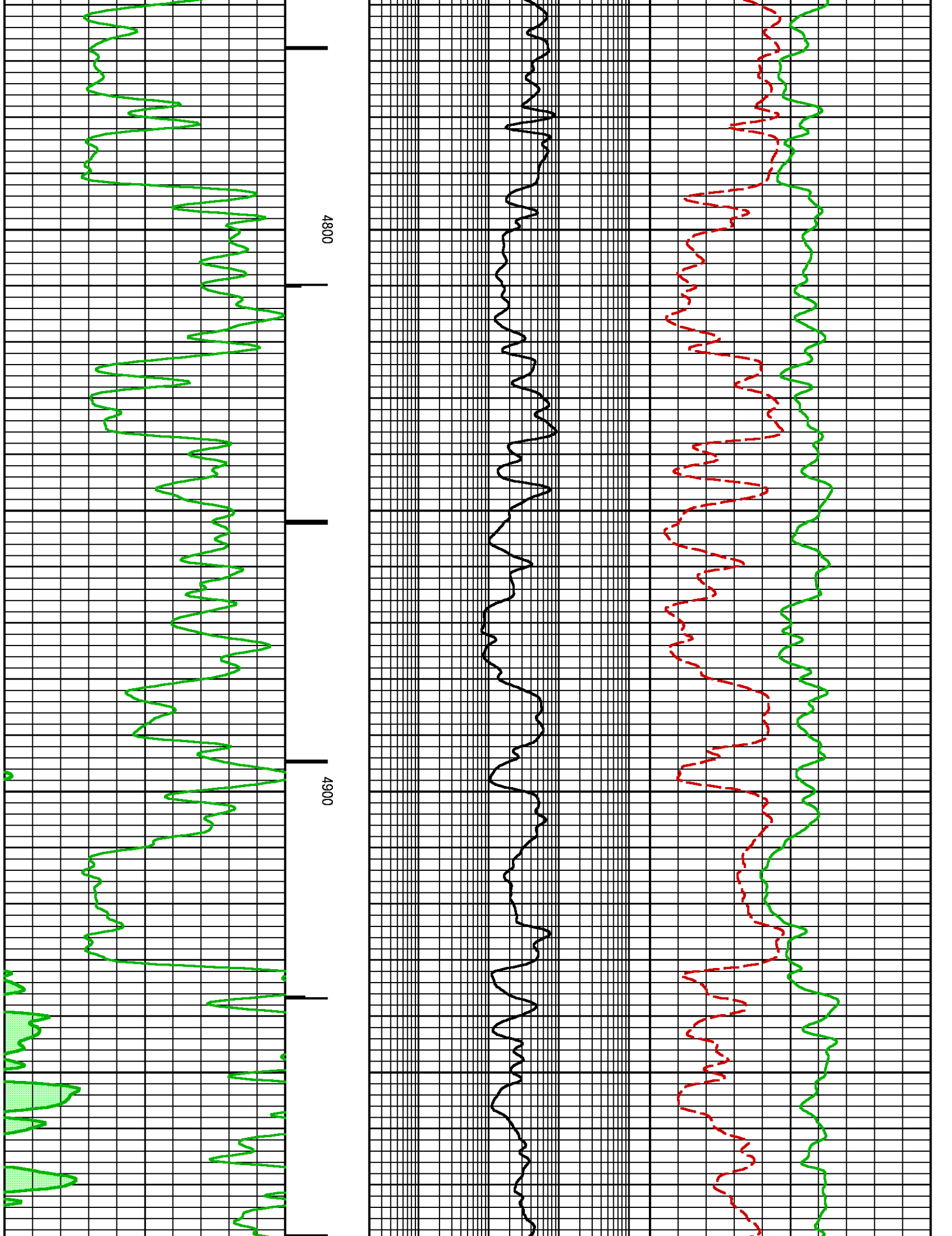
Data File 1 : F1 : BHI3BKZH12:C:\Ape\_Projects\laramie\_bcu\_21\_04w\Merged\_Set\_Final.xtf  
Created On : N/A  
Company : LARAMIE ENERGY LLC  
Well : BCU 0993-21-04W  
Field : BUZZARD CREEK  
File Interval : 2149.75 - 7615.75 Feet  
OCT : NA

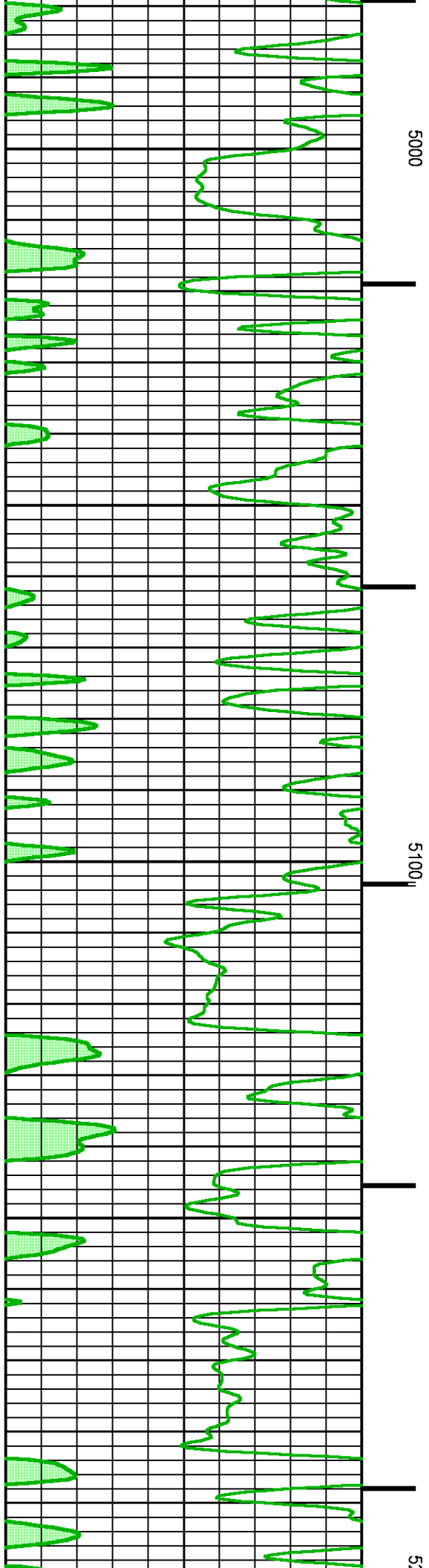
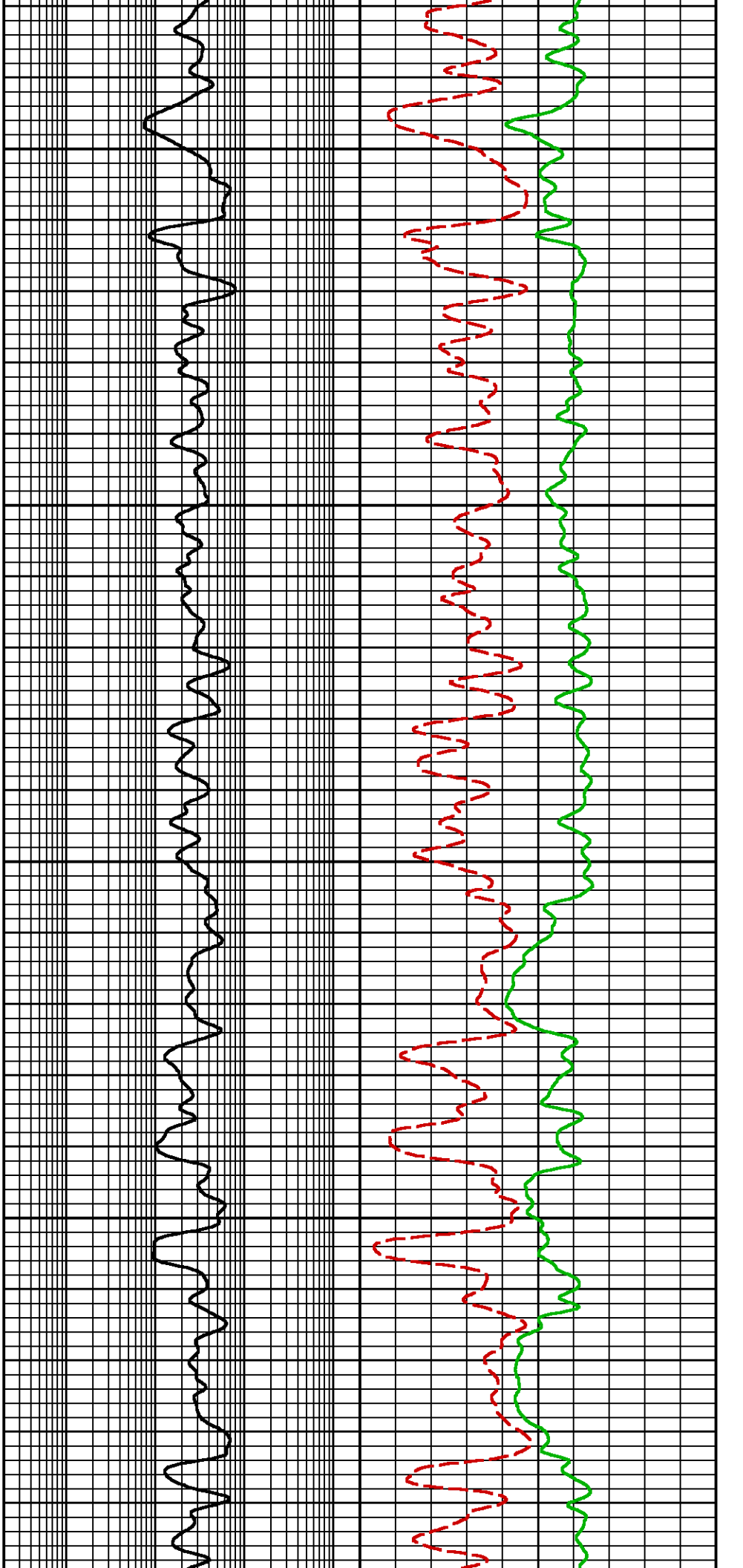


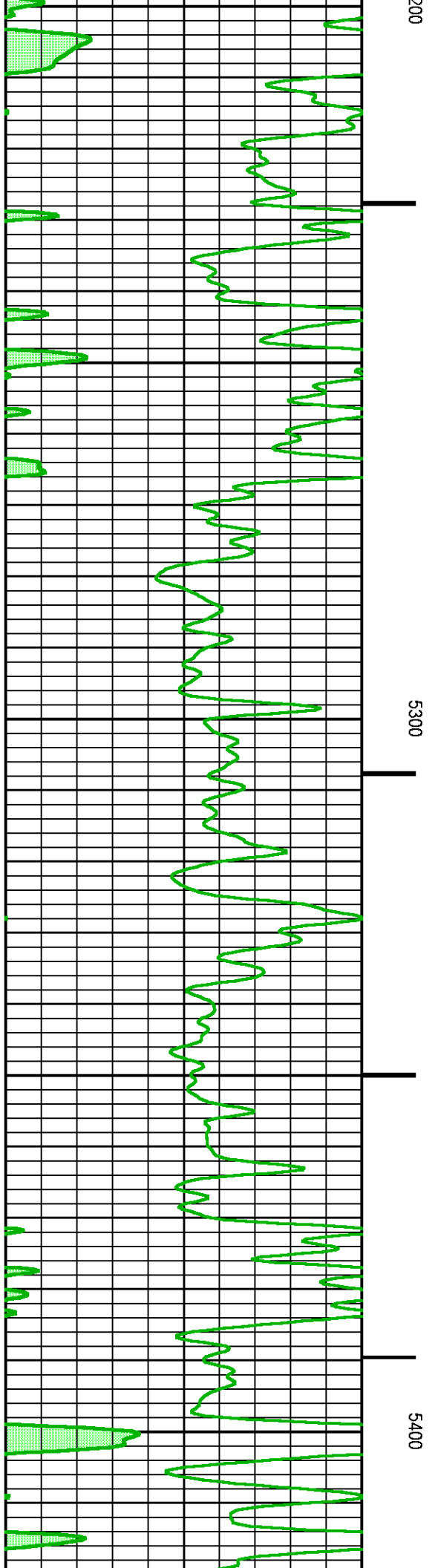
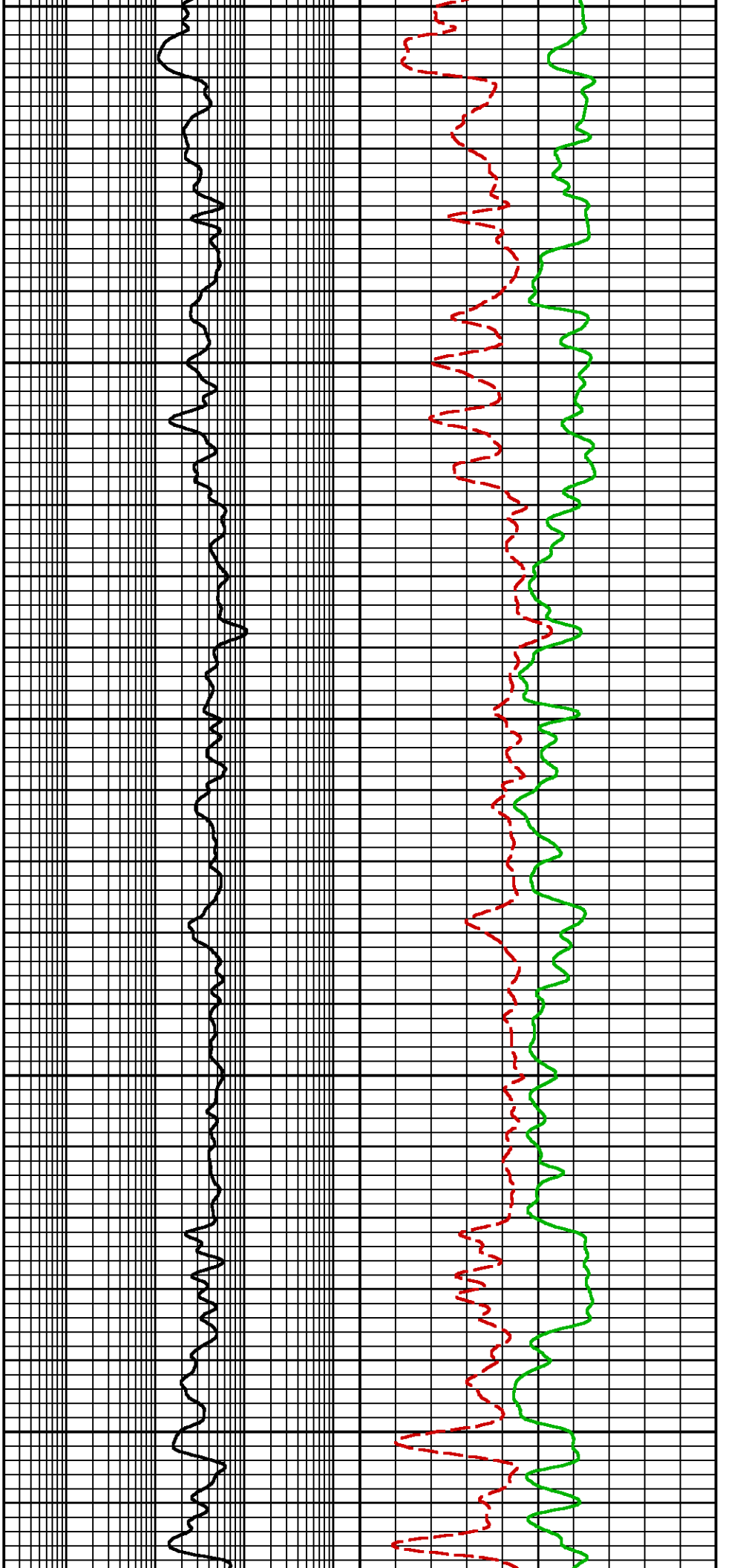


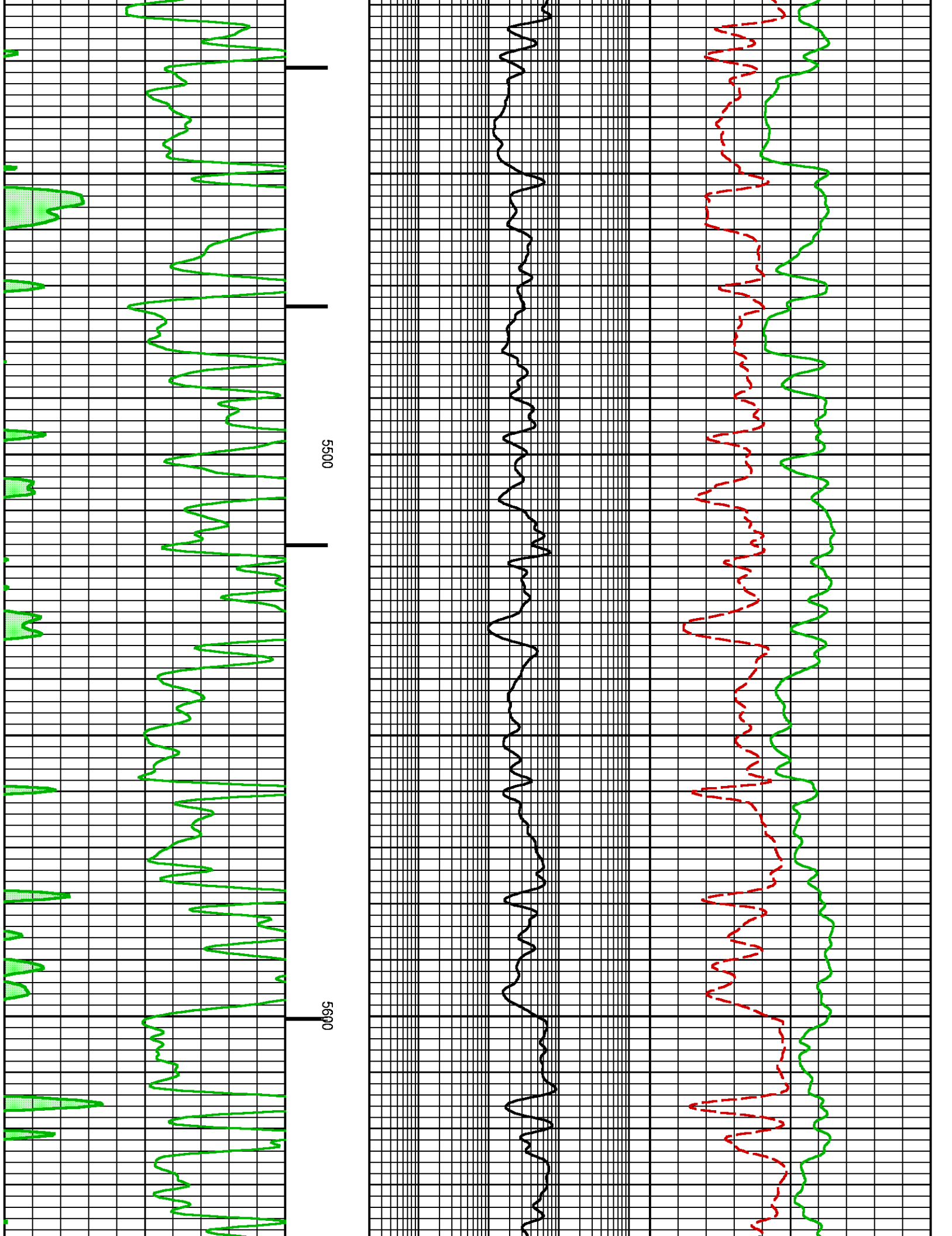


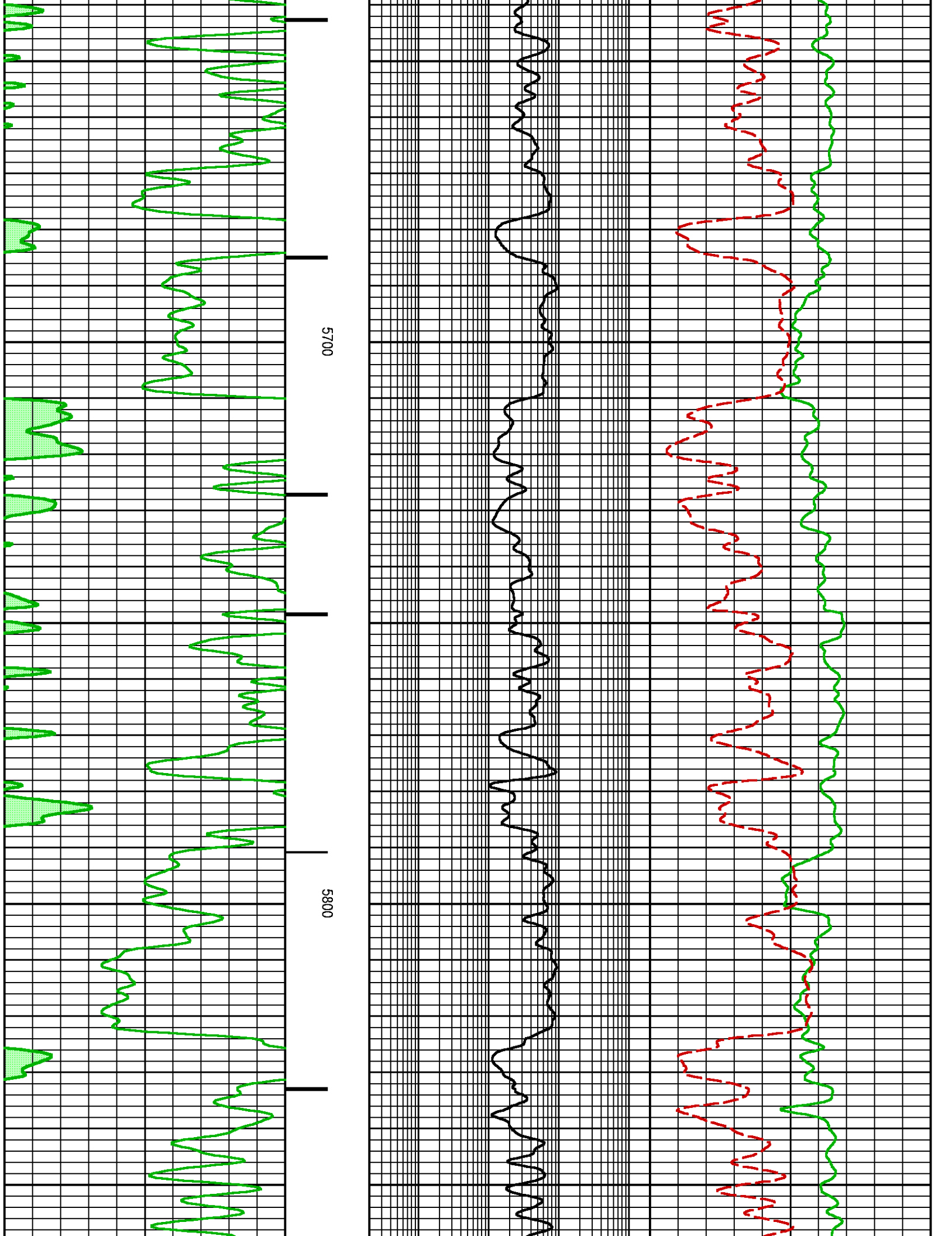


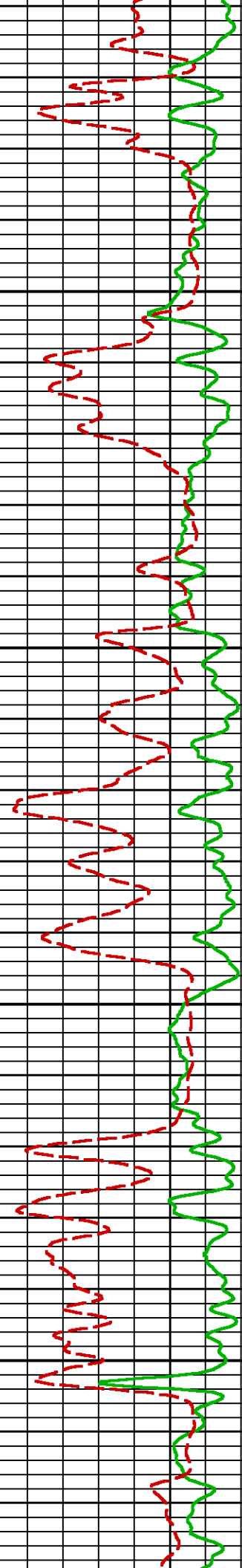
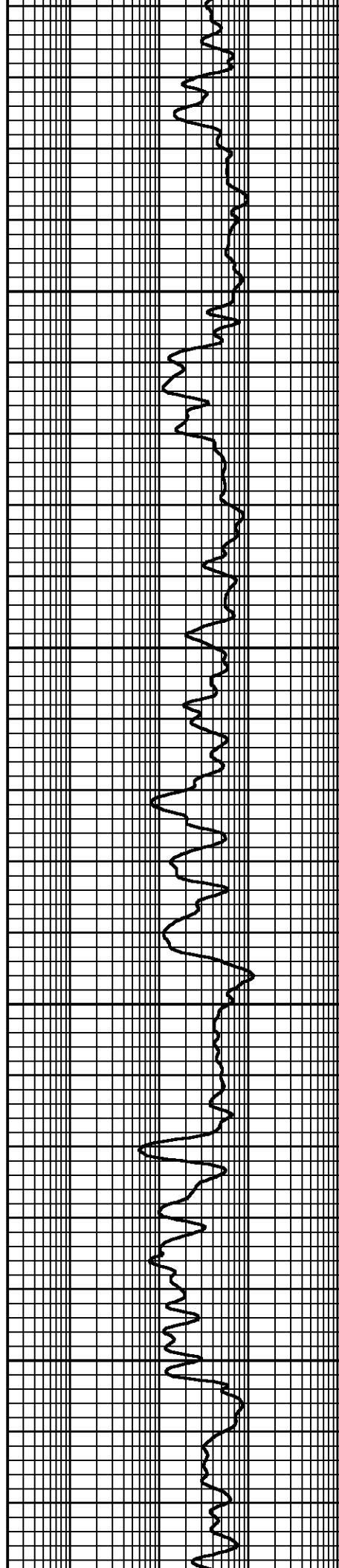
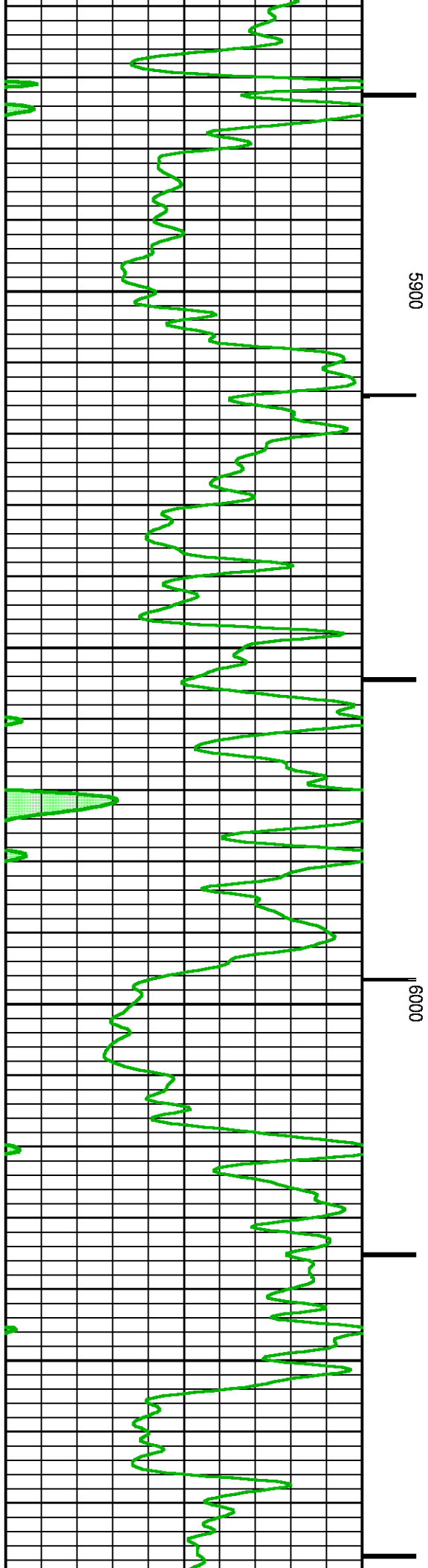


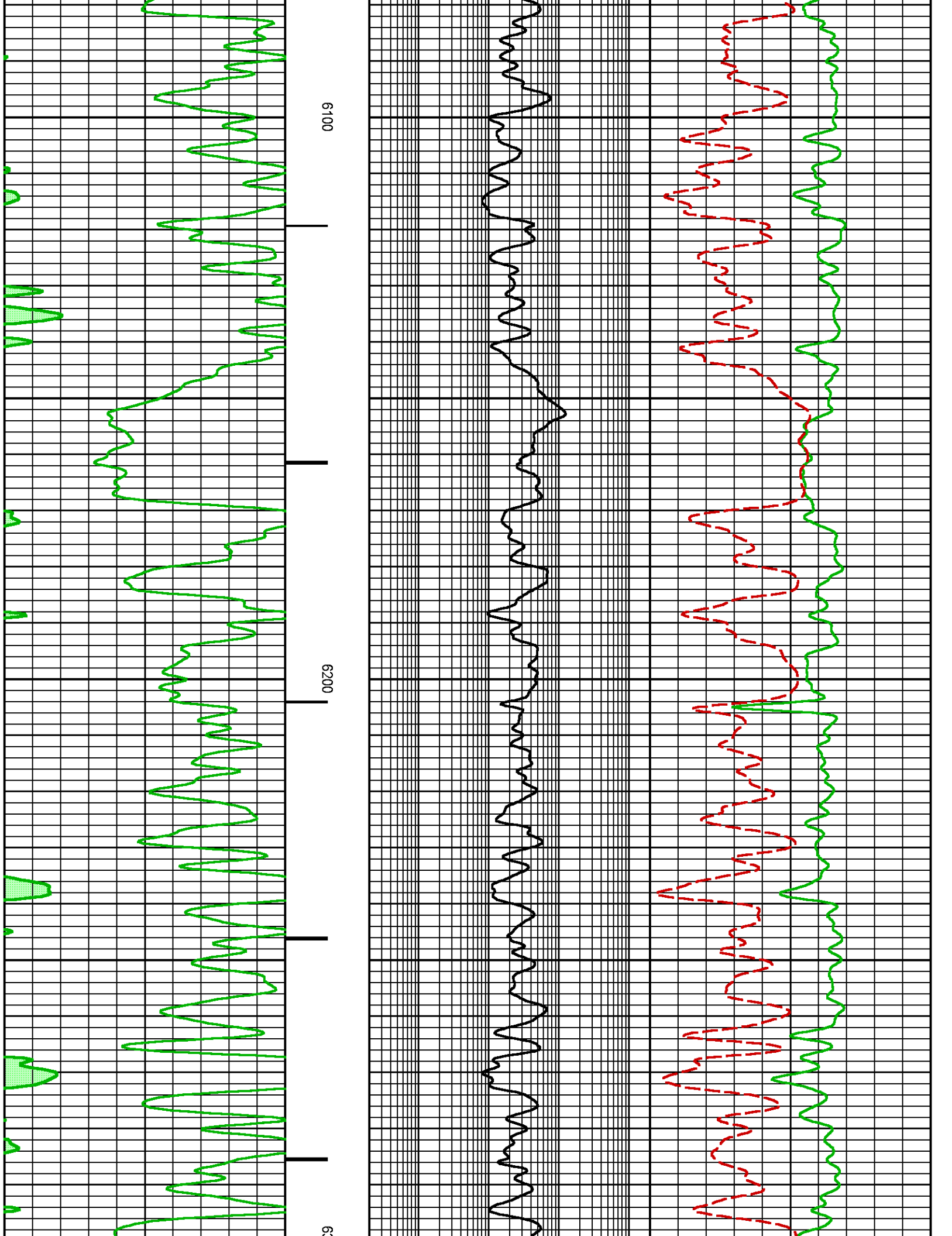


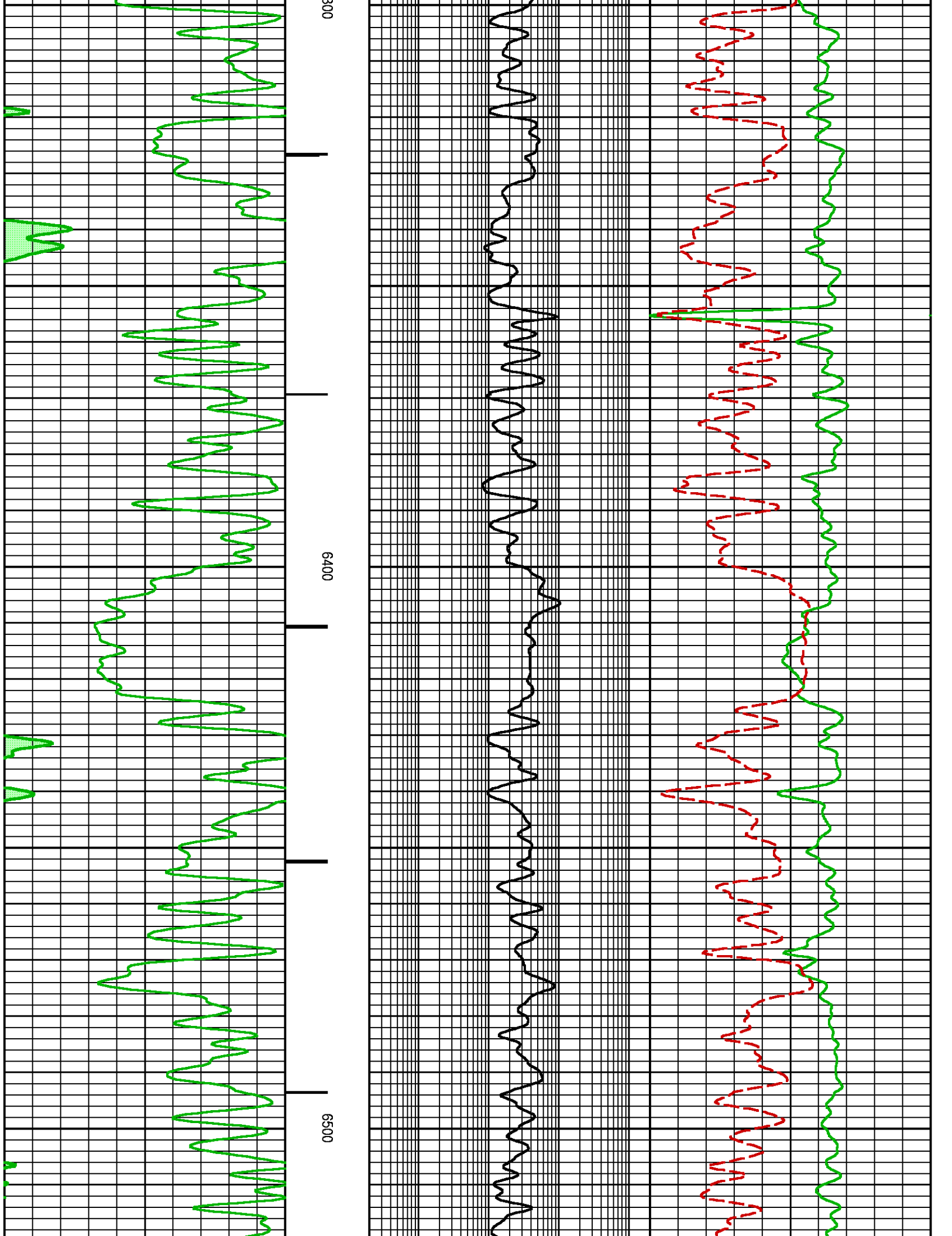




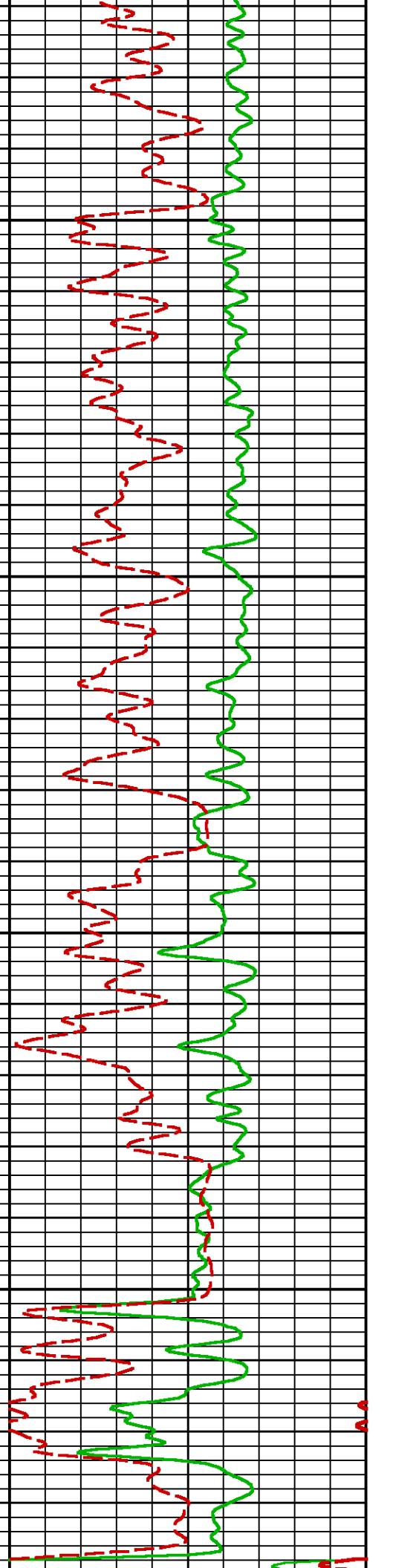
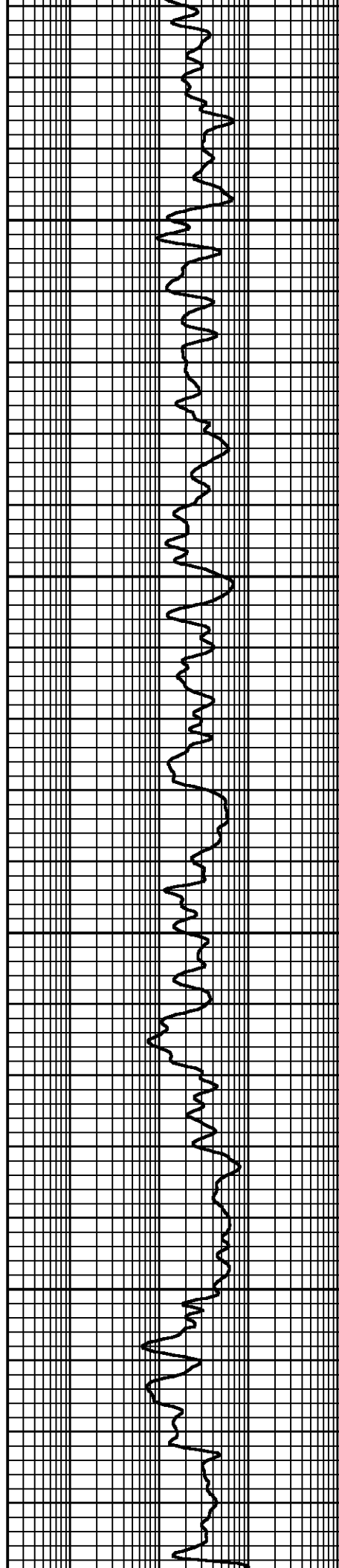
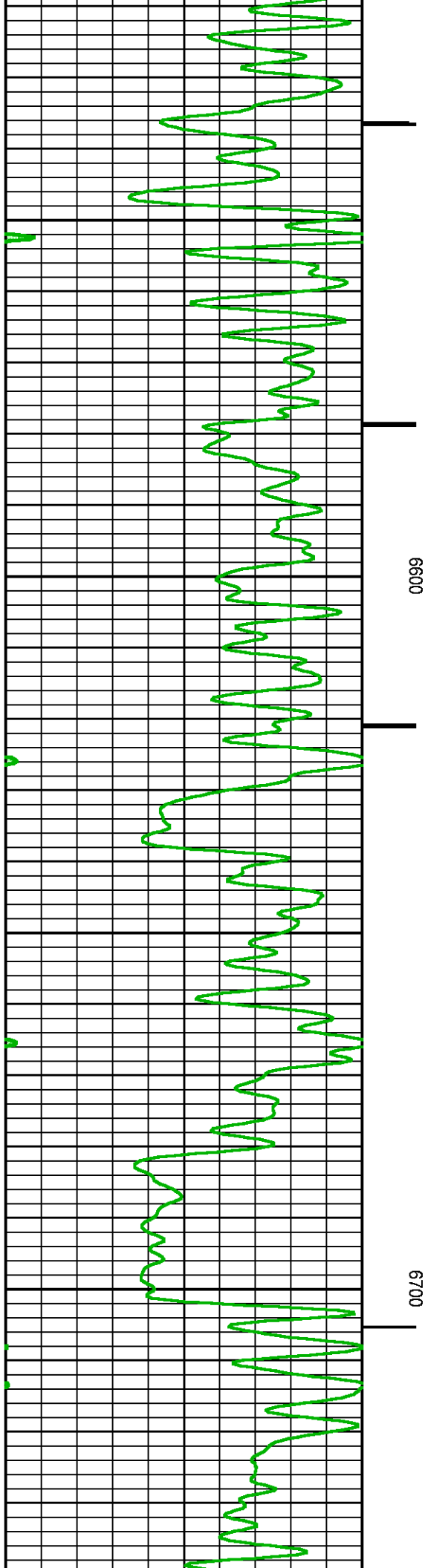


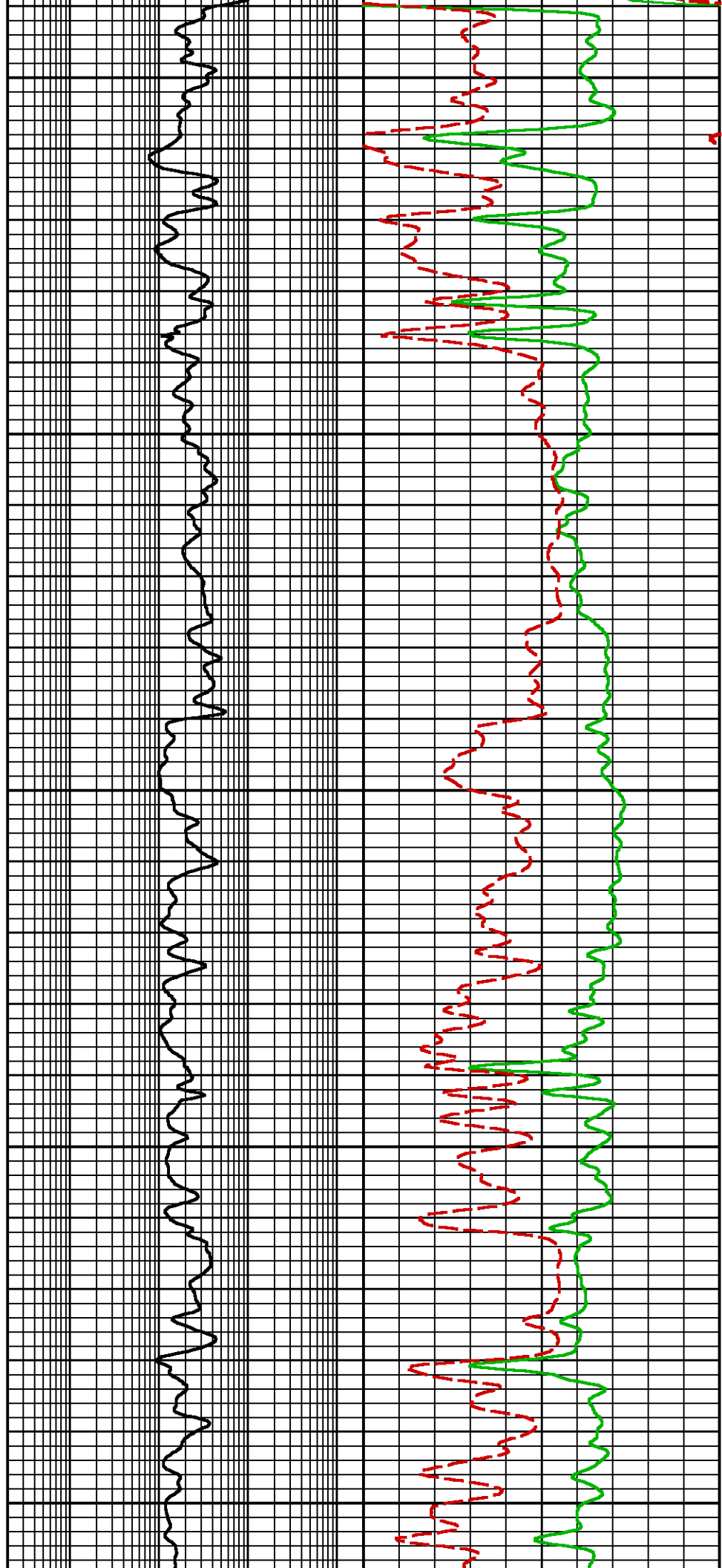
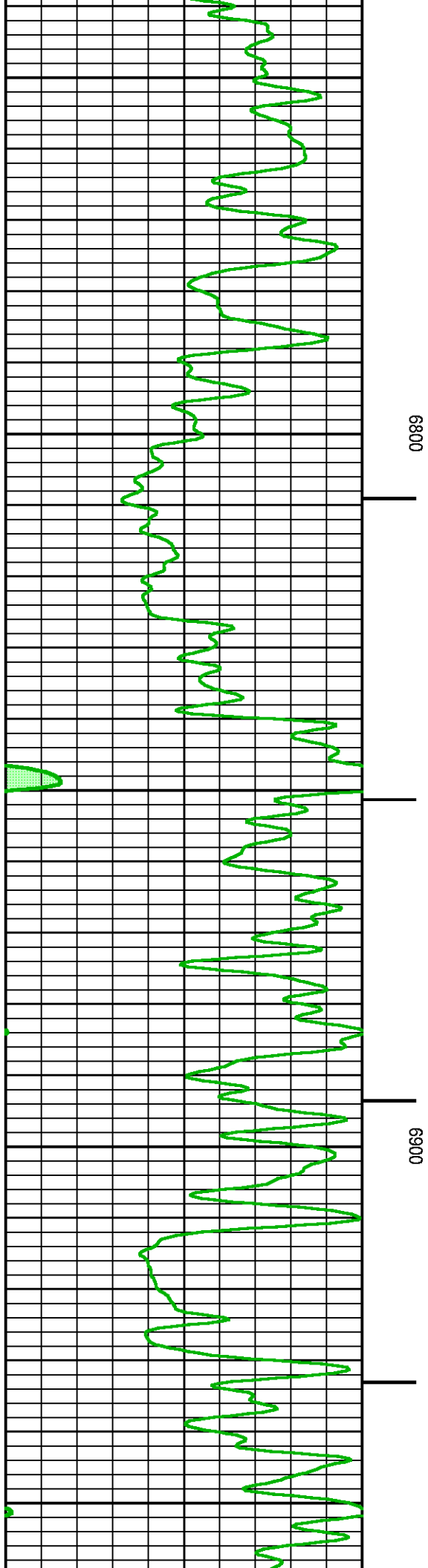


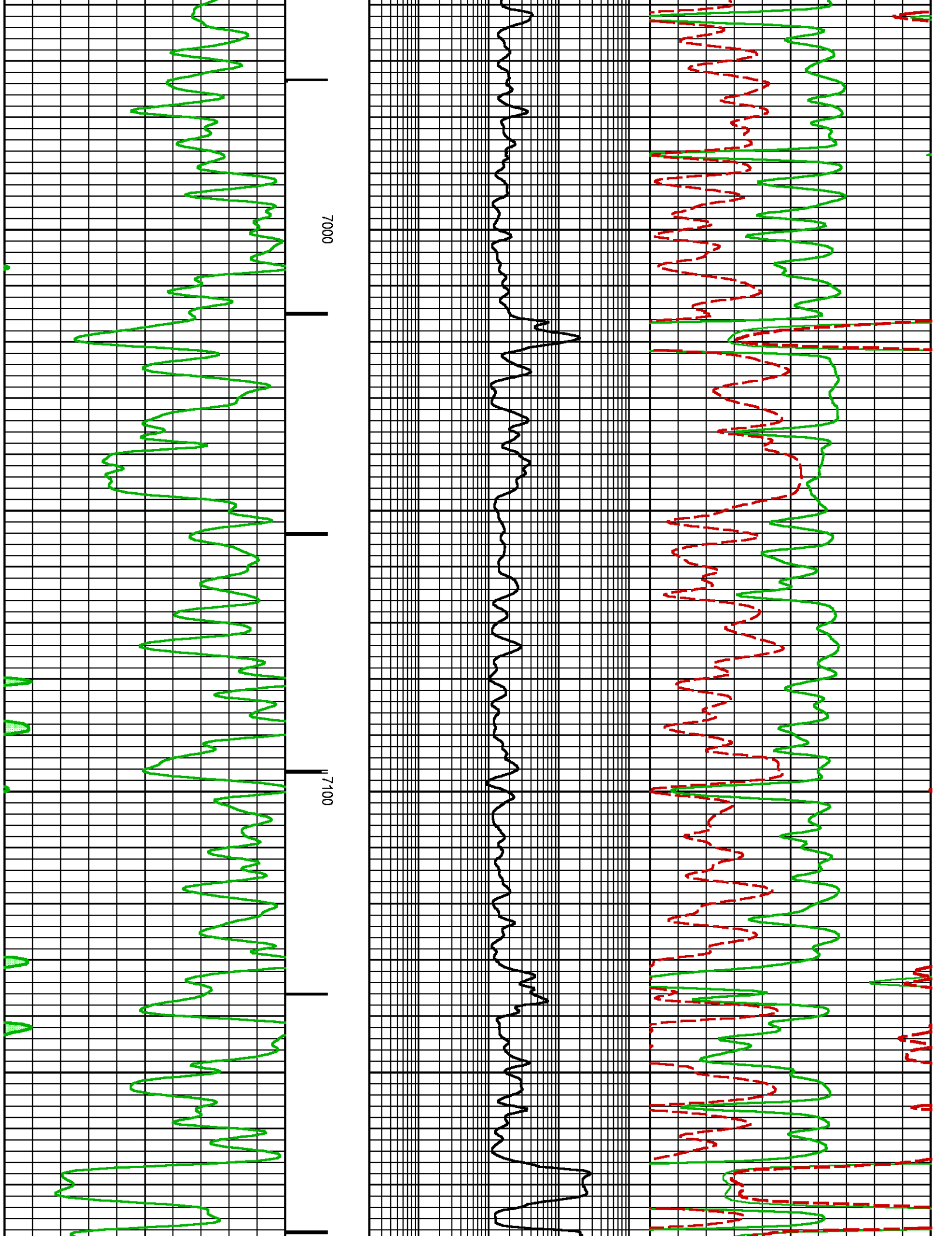


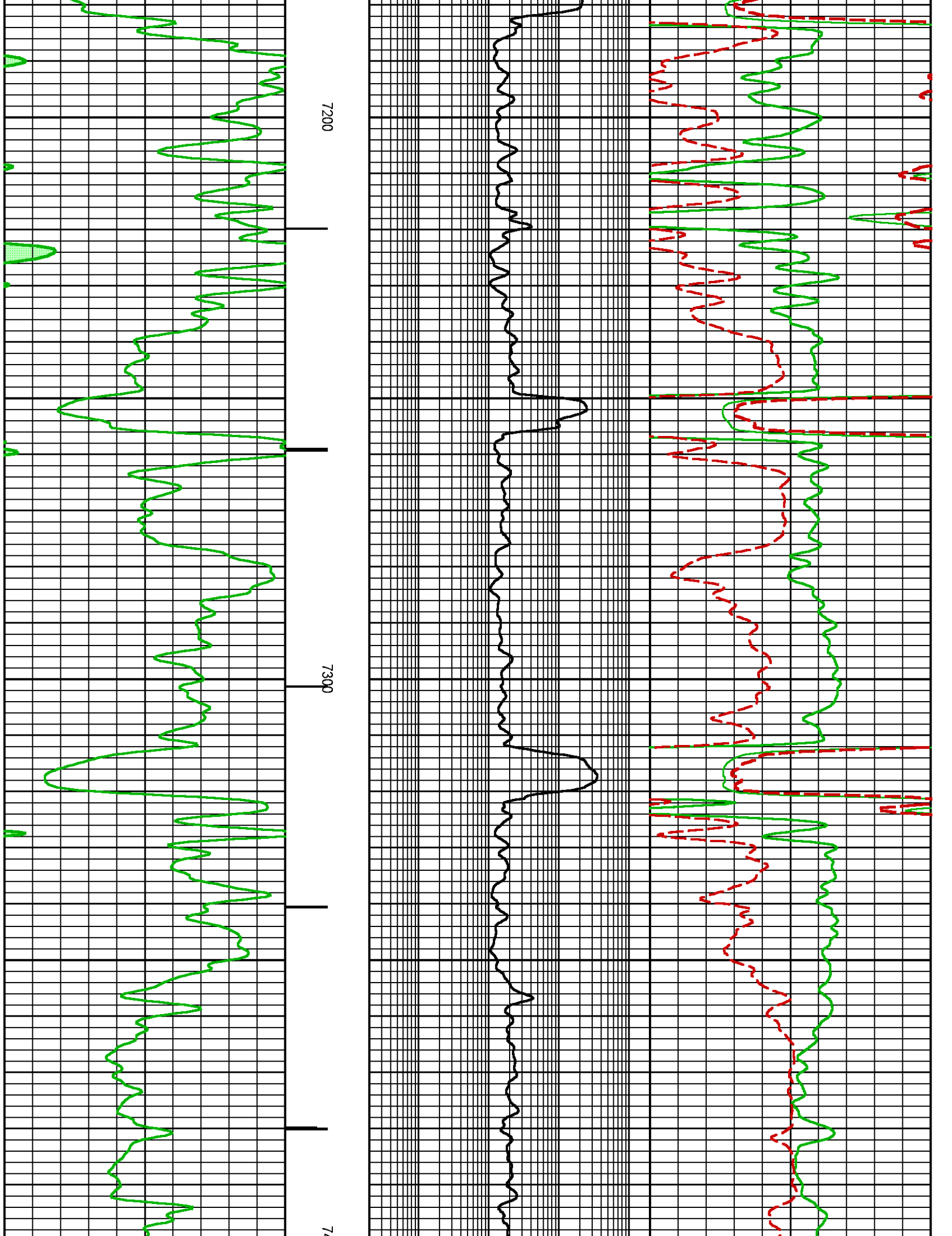


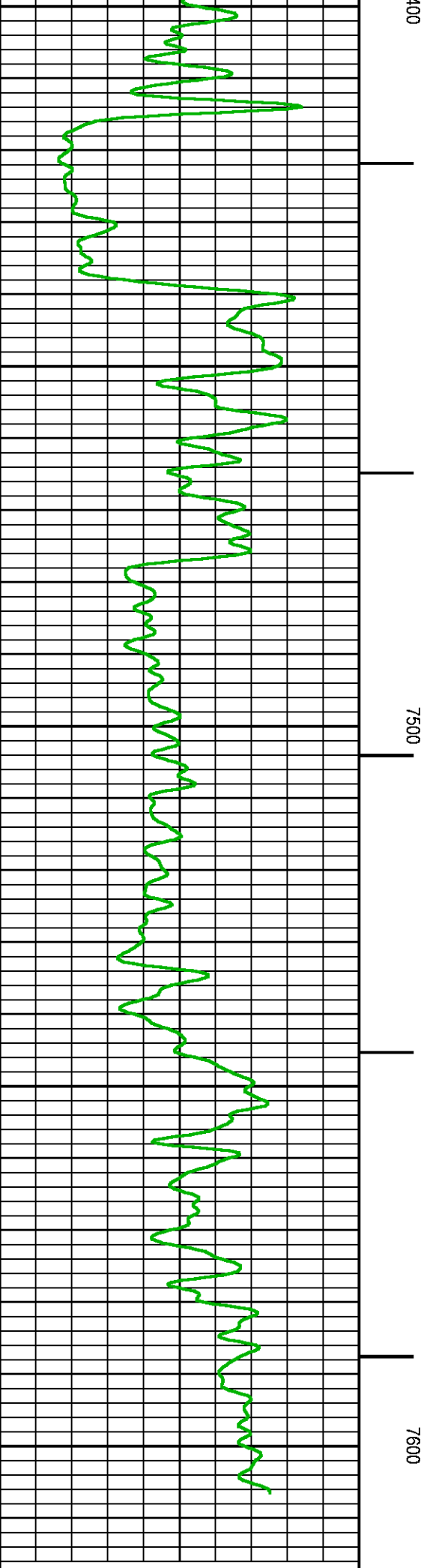
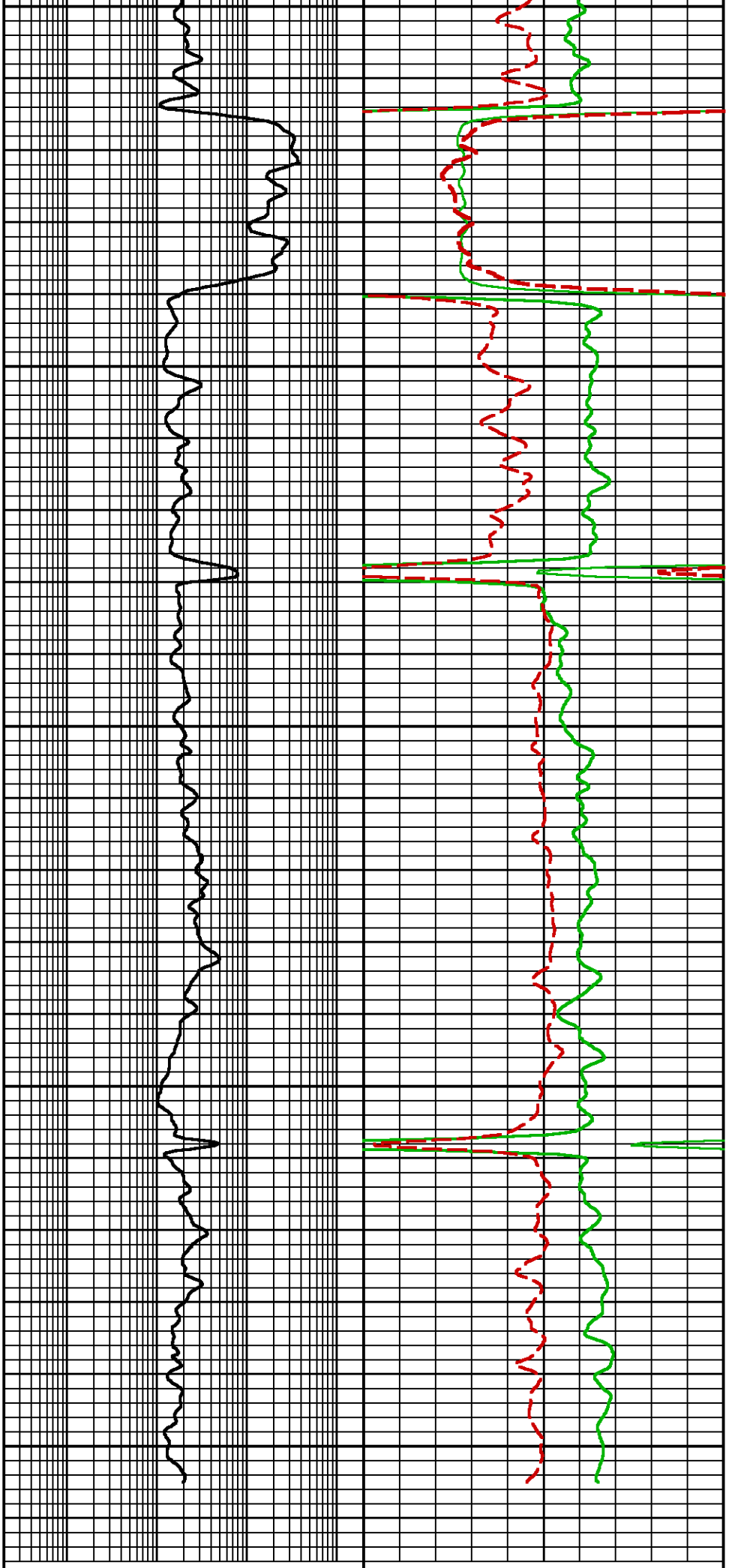





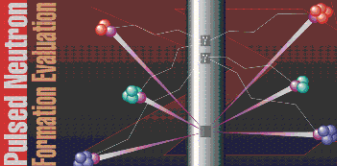








GR BACKUP		CCL	FEET	0.2	EMULATED DEEP RESISTIVITY [nm2r9] 2000	2	EMULATED BULK DENSITY [nnzden] 3
0	GAMMA RAY [grneo] 150						
(GAPI)							
				(OHMM)		(G/C3)	
						EMULATED NEUTRON POROSITY [nnncnf] 0.3 - -0.1	
						(FRAC)	

 	<b>COMPANY</b> <u>LARAMIE ENERGY LLC</u> <b>WELL</b> <u>BCU 0993-21-04W</u> <b>FIELD</b> <u>BUZZARD CREEK</u> <b>COUNTY</b> <u>MESA</u> <b>STATE</b> <u>COLORADO</u>	<b>FILE NO:</b> _____  <b>API NO:</b> <u>05-077-10511-0000</u>
	<b>LOCATION:</b> <u>SEE REMARKS</u>  <b>SEC</b> <u>21</u> <b>TWP</b> <u>9S</u> <b>RGE</b> <u>93W</u>	<b>ELEVATIONS:</b> <b>KB</b> <u>7287 FT</u> <b>DF</b> _____ <b>GL</b> <u>7257 FT</u> <b>DATE</b> <u>30-NOV-2018</u>