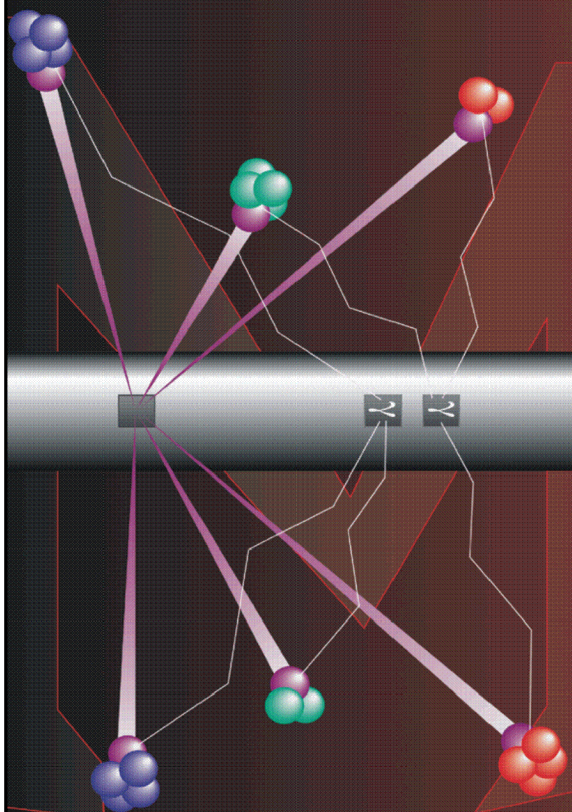


Pulsed Neutron Formation Evaluation



NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY II LLC

WELL BCU 0993-21-10E

FIELD BUZZARD CREEK

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS SECTION

SEC 21 TWP 9S RGE 93W

ELEVATIONS:

KB 7287 FT DF GL 7257 FT

DATE 11-NOV-2018 ECC US142944J

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>CALGARY GEOSCIENCE</u>		LOG ANALYST: <u>A. KOTOV</u>		DATE: <u>14-NOV-2018</u>
FIELD DATA	LOCATION: <u>GRAND JUNCTION</u>		ENGINEER: <u>M.BAUKA/US142944J</u>		DATE: <u>11-NOV-2018</u>
FROM	TO				
<u>2519 FT</u>	<u>8250 FT</u>				

REMARKS

LOCATION:
SHL: 2369.0' FNL & 1448.0' FEL
BHL: 2369.0' FNL & 1448.0' FEL

TRAINING WELL: 0993 21-08W

ANY ERRORS IN THE TRAINING WELL OPEN HOLE DATA CAN PERPETUATE TROUGH AS AN ERROR IN THE EMULATED RESULTS.

BOND LOG IS DEPTH REFERENCE LOG

ANALYST: ALEXANDR KOTOV

NEO RESULTS FOR BRUTON BCU 0993-21-10E (G-SAND)

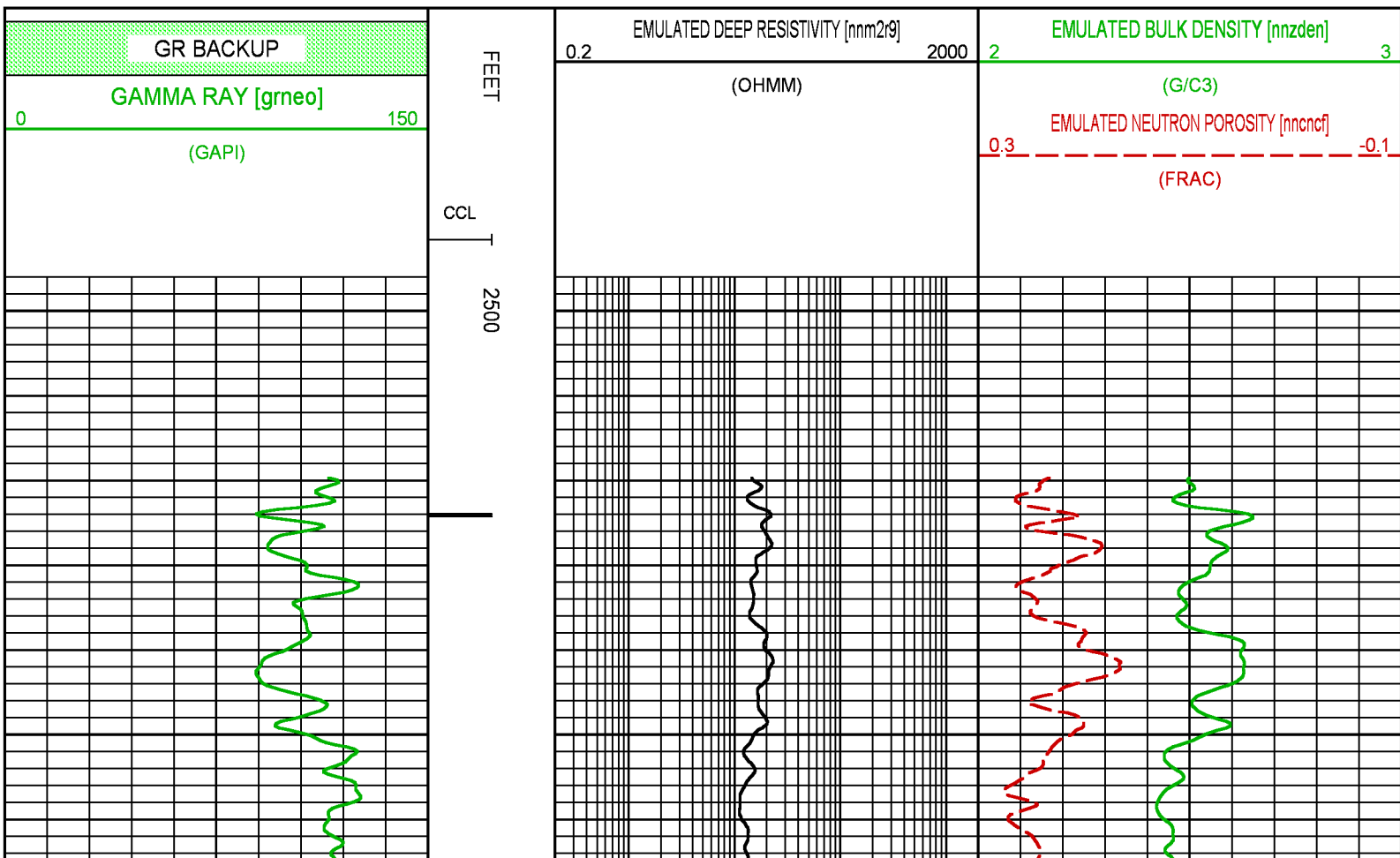
ECLIPS ECPLLOT from ECLIPS 7.0 WFM 6.0.7905.1 Wed 08/23/2017 09:02:35.01

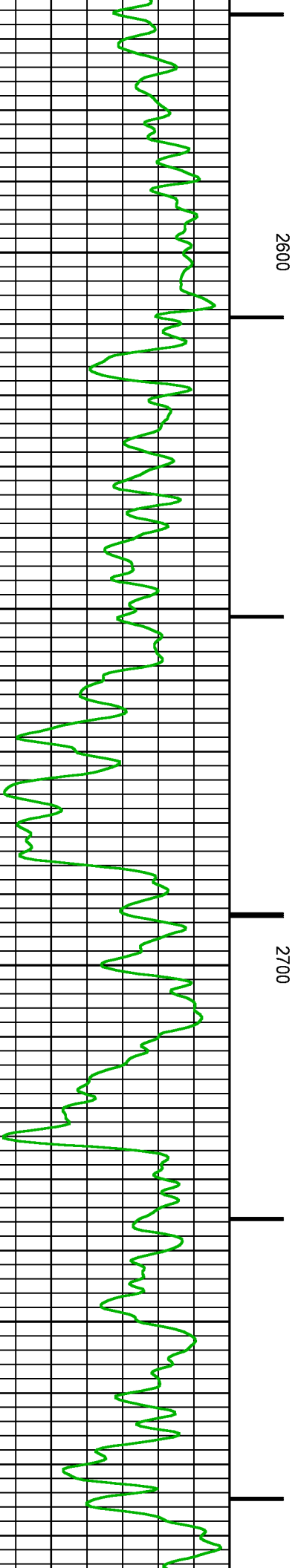
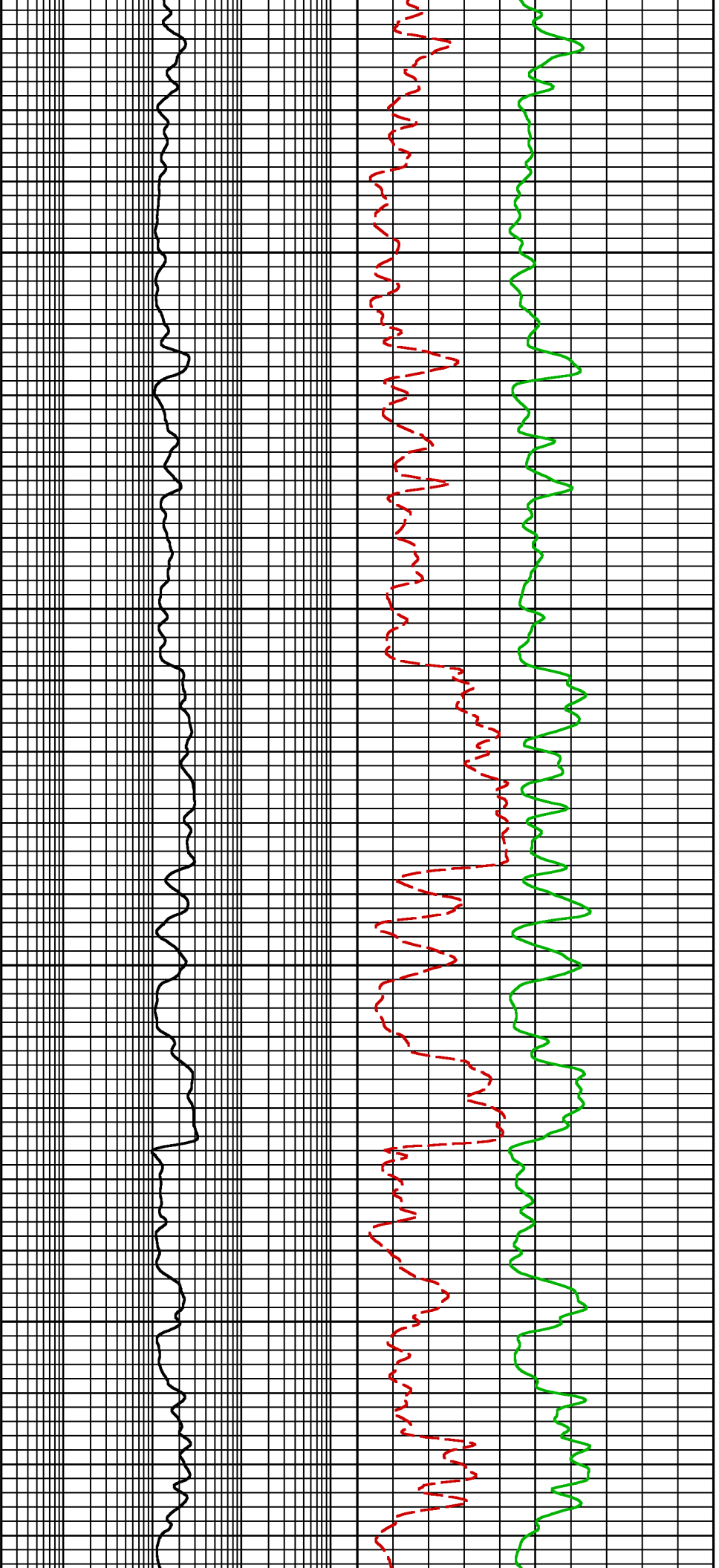
Plotted: Wed Nov 14 15:36:45 2018

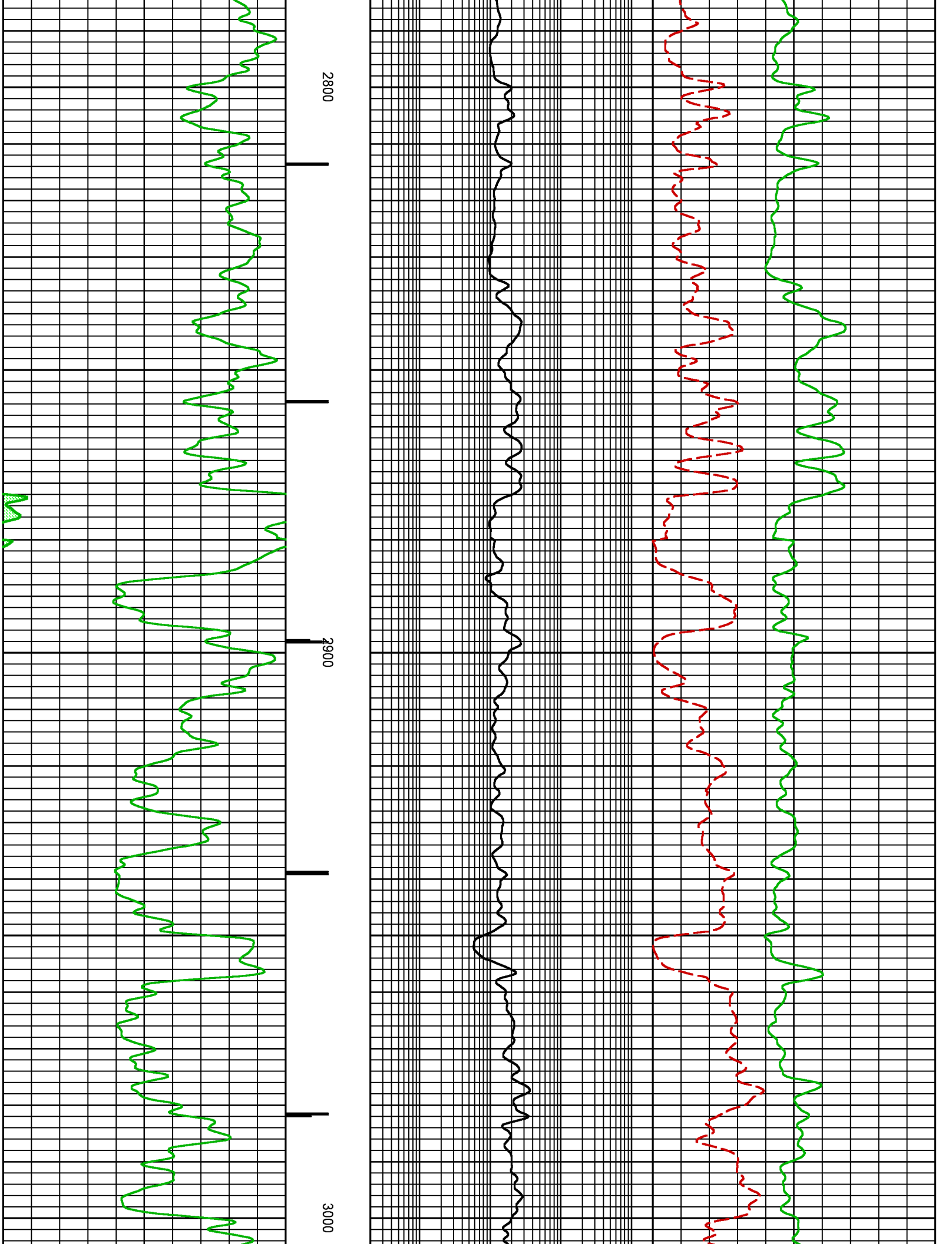
CURVE MEASURE POINT OFFSET

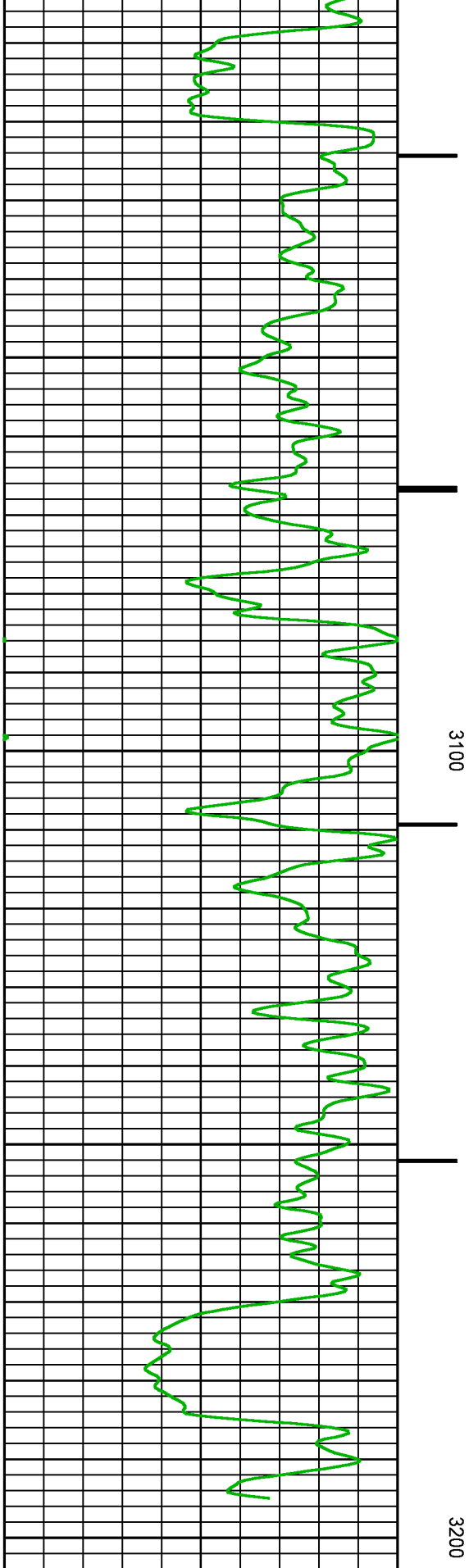
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNCf	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

Project : NA
 User : kotoale
 Presentation : BHI1F65XZ1:D:\Ape_Projects\LARAMIE_BCU_0993_21_10E_NEO\NEO_PRESENTATION_LARAMIE_G-Sand.pdf [5"/100' Scale]
 Plot Interval : 2496 - 3203 Feet
 Data File 1 : F1 : BHI1F65XZ1:D:\Ape_Projects\LARAMIE_BCU_0993_21_10E_NEO\Merged_Set_Final.txt
 Created On : Nov 14 15:30:15 2018
 Company : LARAMIE ENERGY LLC
 Well : BCU 0993-21-10E
 Field : BUZZARD CREEK
 File Interval : 2519.75 - 8250.75 Feet
 OCT : NA

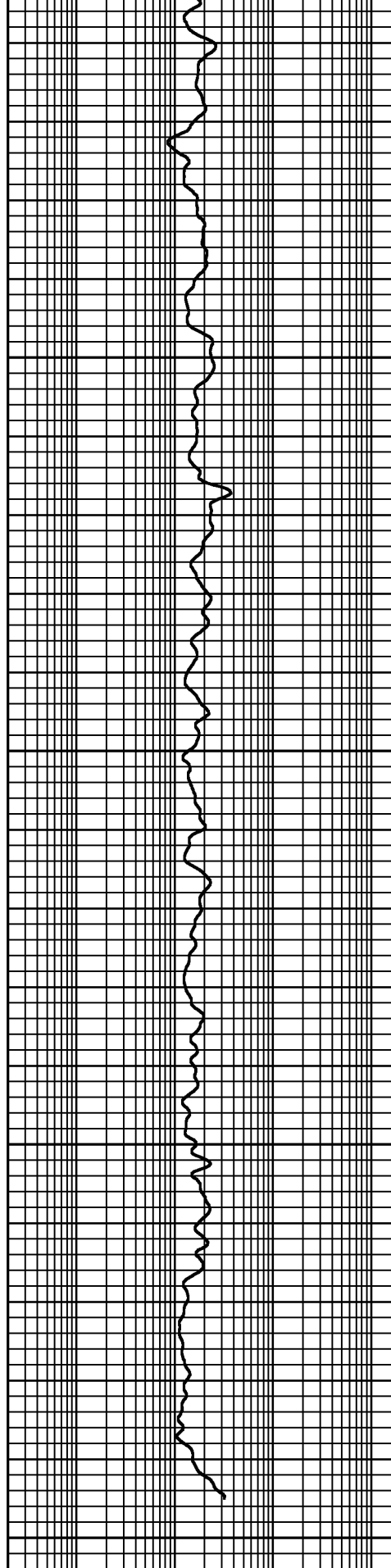




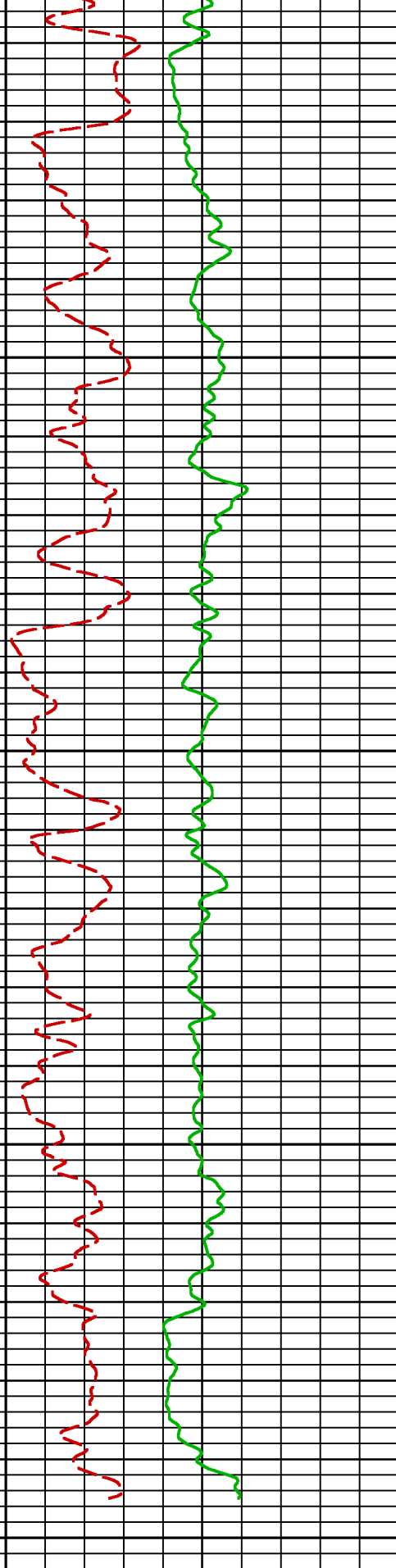




GR BACKUP
GAMMA RAY [grneo]
(GAPI)



EMULATED DEEP RESISTIVITY [nnm2r9]
(OHMM)



EMULATED BULK DENSITY [nnnzen]
(G/C3)
EMULATED NEUTRON POROSITY [nnncnf]
(FPAQ)

CCL

(FRAC)

NEO RESULTS FOR BCU 0993-21-10E (MAIN)

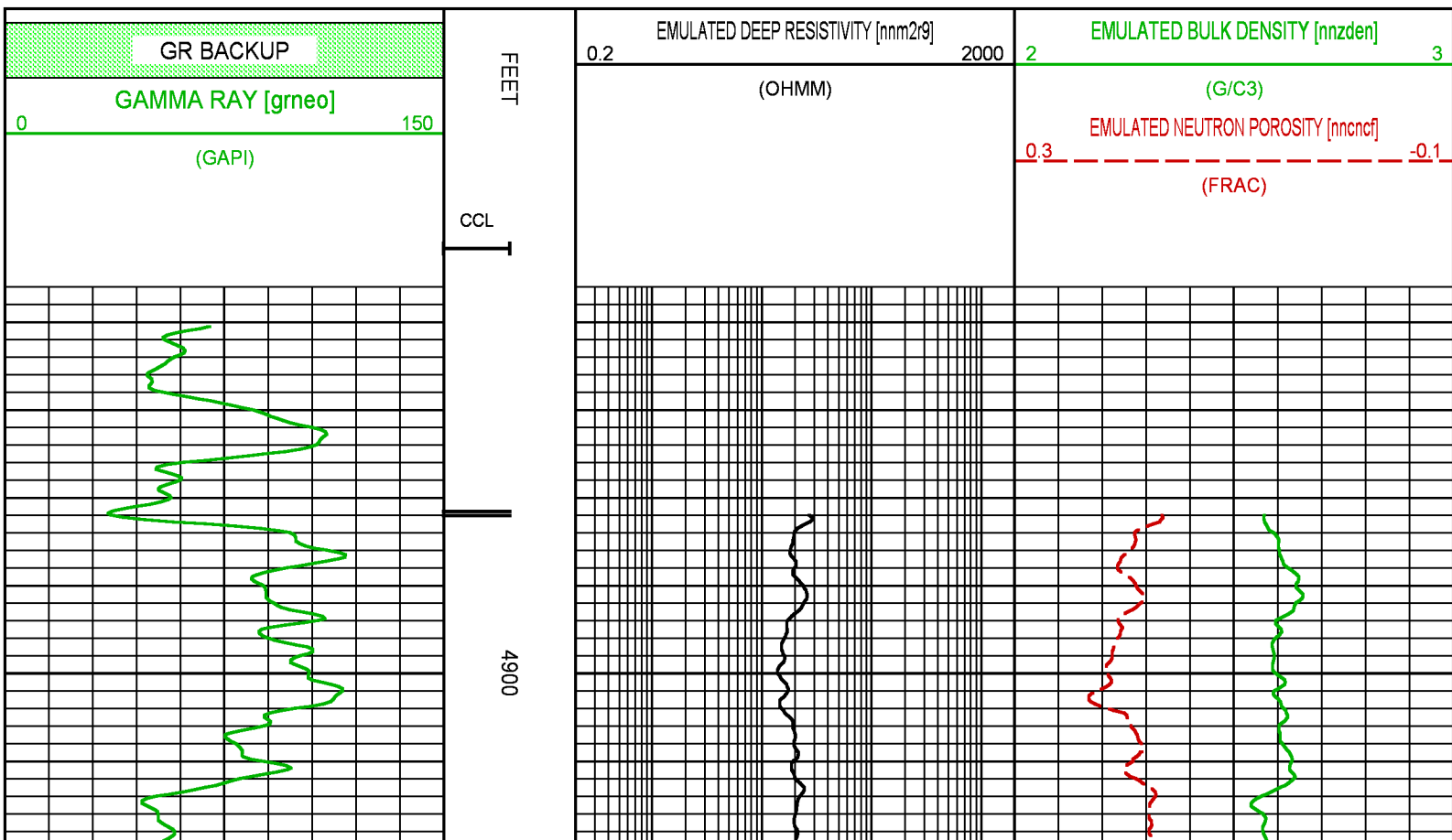
ECLIPS ECPLLOT from ECLIPS 7.0 WFM 6.0.7905.1 Wed 08/23/2017 09:02:35.01

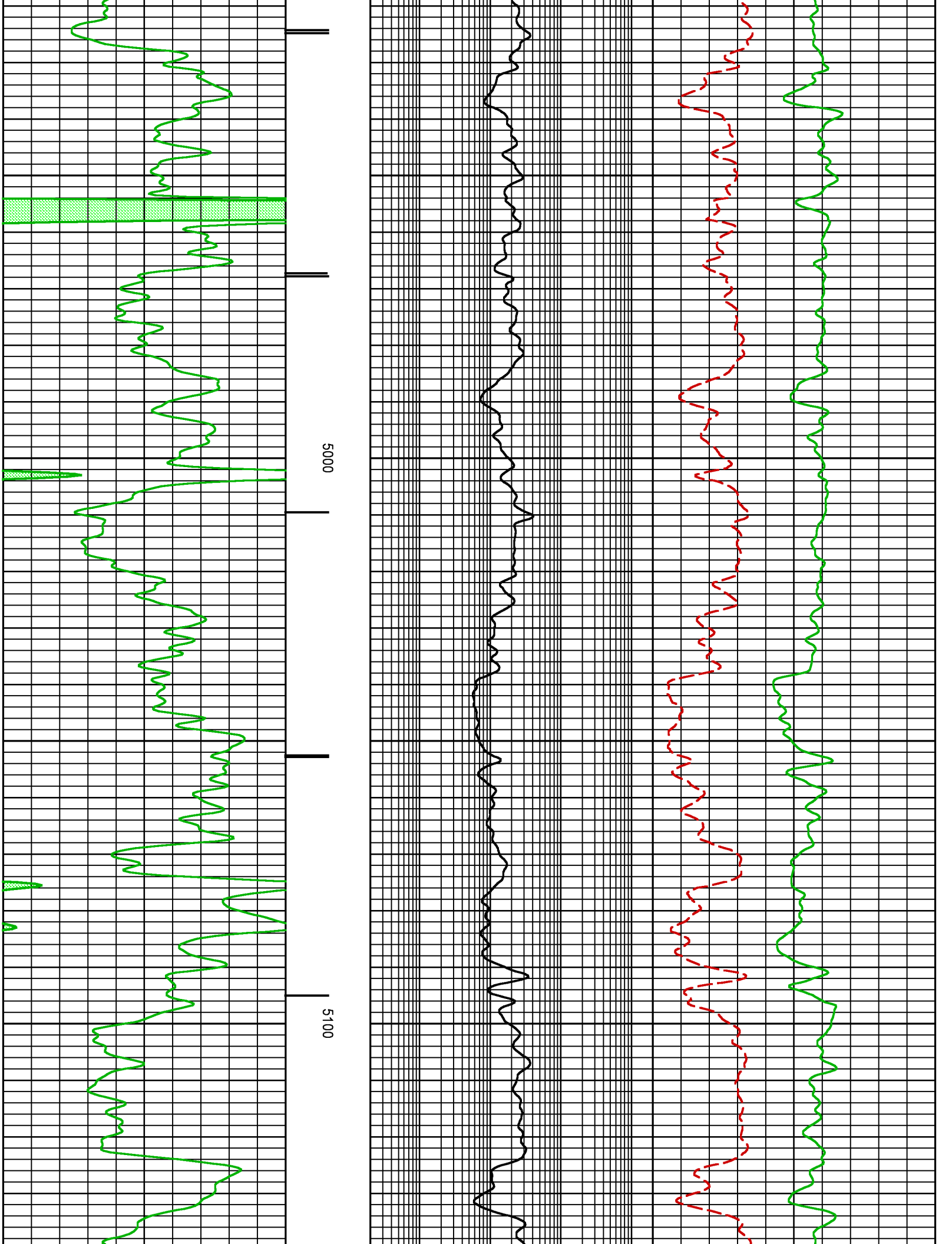
Plotted: Wed Nov 14 15:42:58 2018

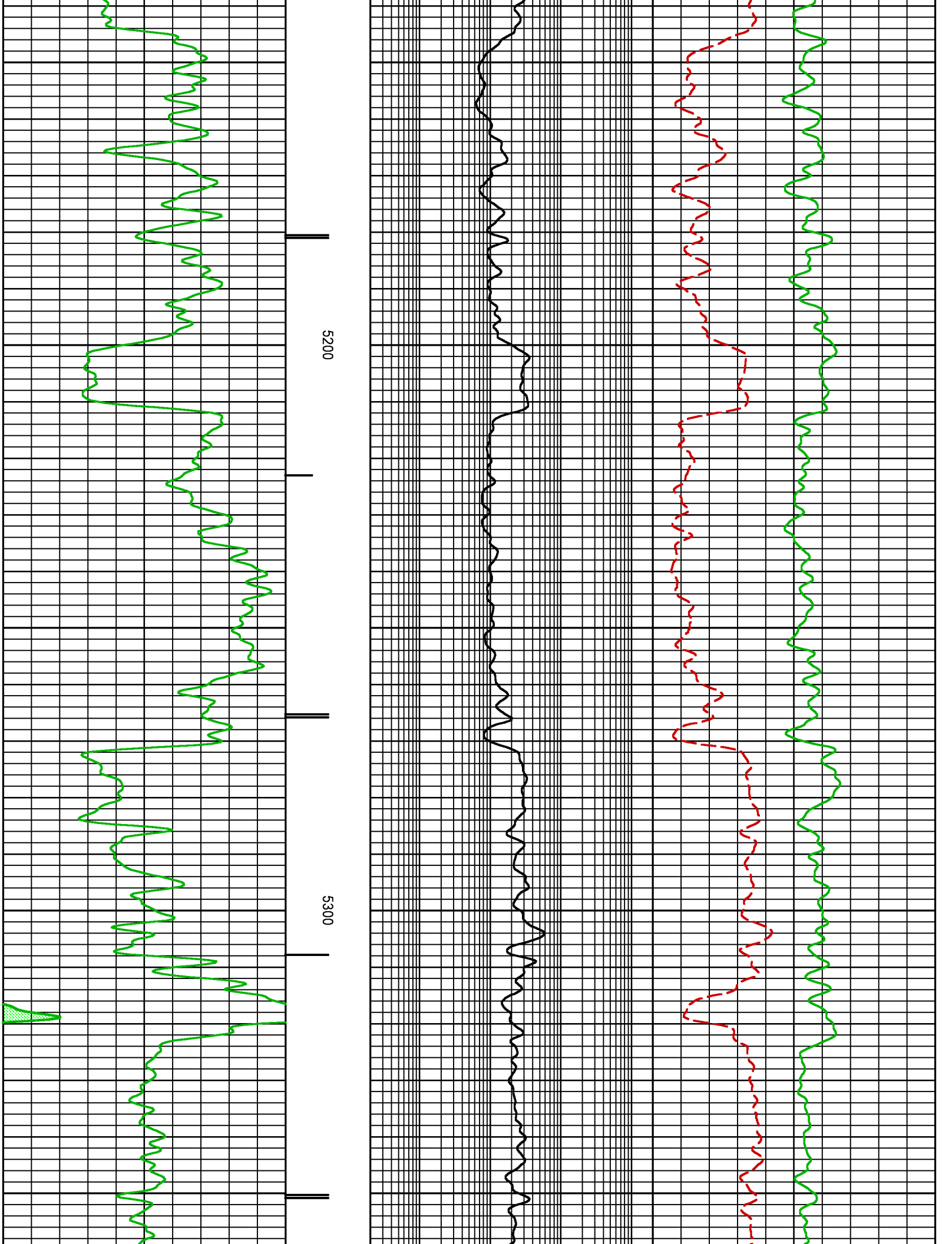
CURVE MEASURE POINT OFFSET

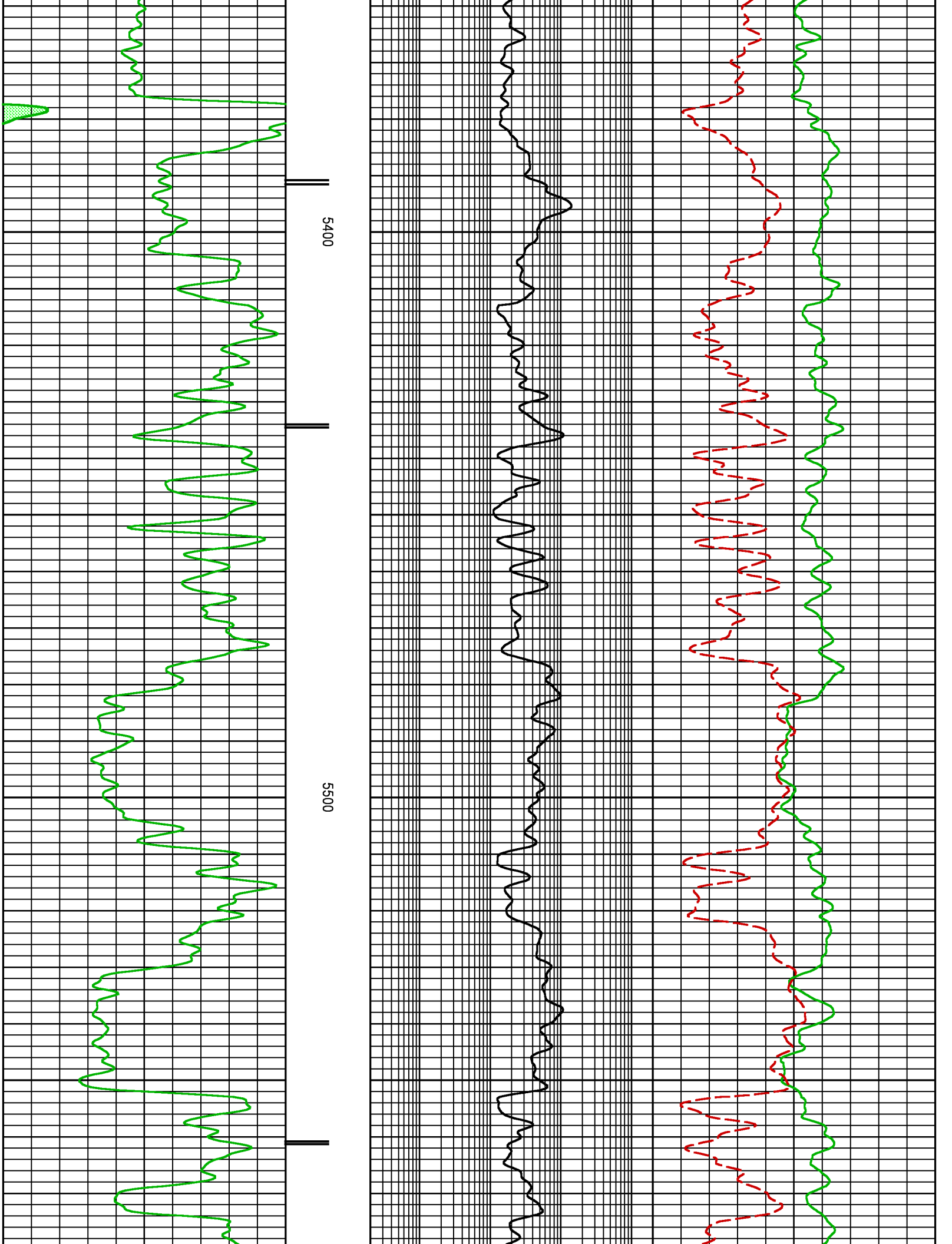
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNC	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

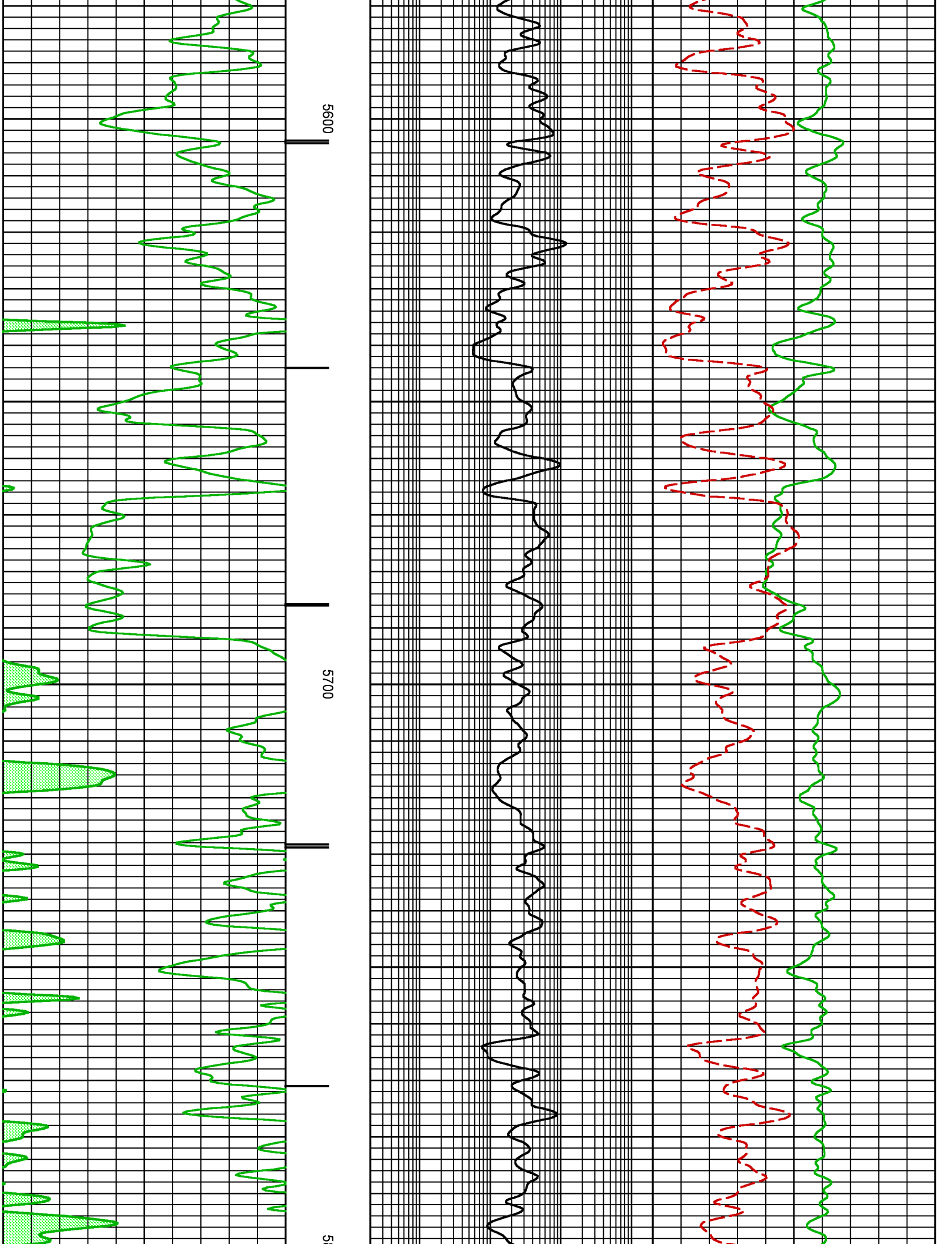
Project : NA
 User : kotoale
 Presentation : BHI1F65XZ1:D:\Ape_Projects\LARAMIE_BCU_0993_21_10E_NEO\NEO_PRESENTATION_LARAMIE_MAIN.pdf [5"/100' Scale]
 Plot Interval : 4856 - 8267 Feet
 Data File 1 : F1 : BHI1F65XZ1:D:\Ape_Projects\LARAMIE_BCU_0993_21_10E_NEO\Merged_Set_Final.xtf
 Created On : Nov 14 15:30:15 2018
 Company : LARAMIE ENERGY LLC
 Well : BCU 0993-21-10E
 Field : BUZZARD CREEK
 File Interval : 2519.75 - 8250.75 Feet
 OCT : NA

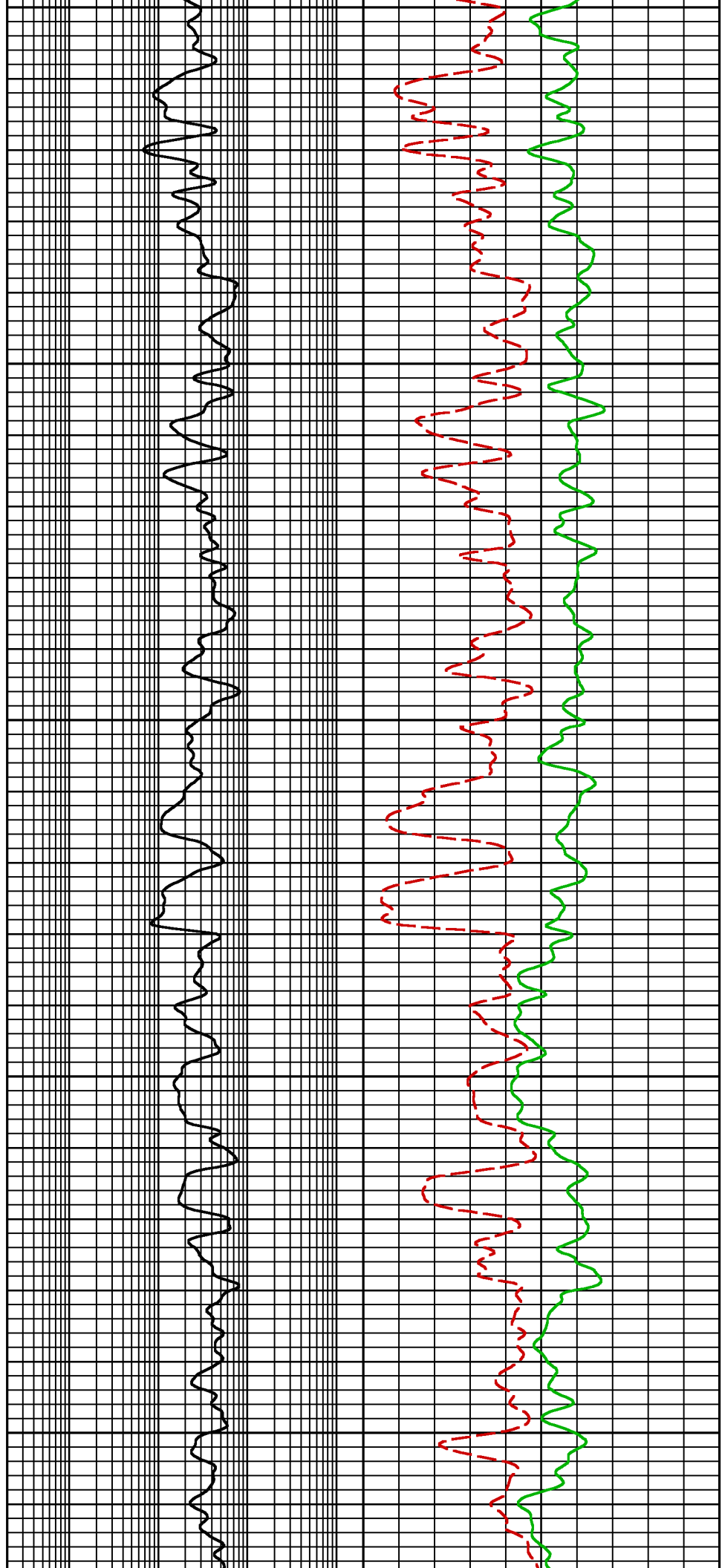
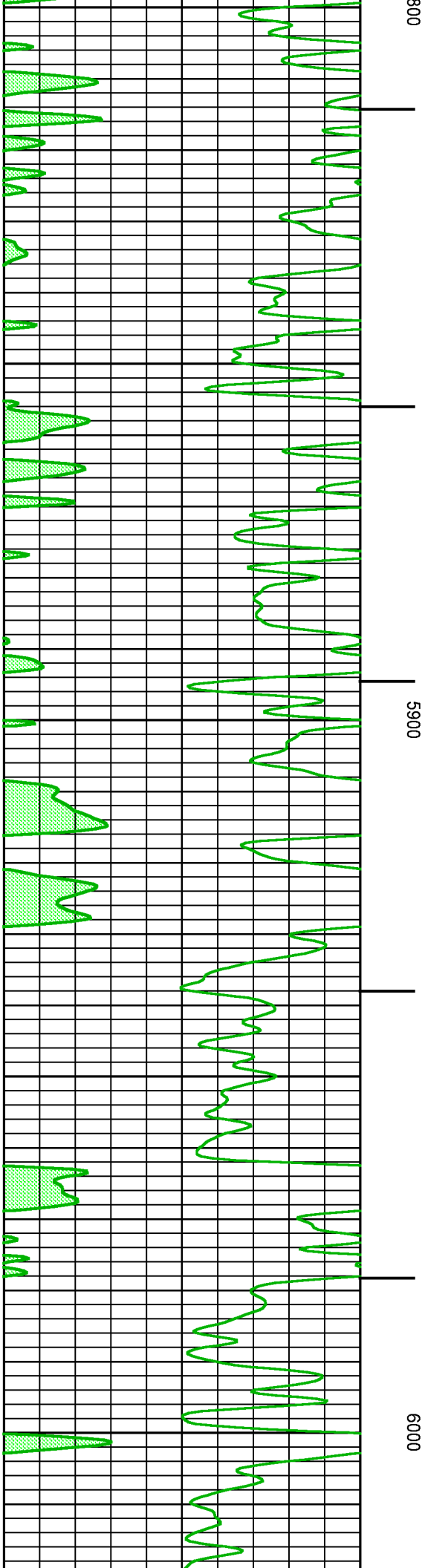


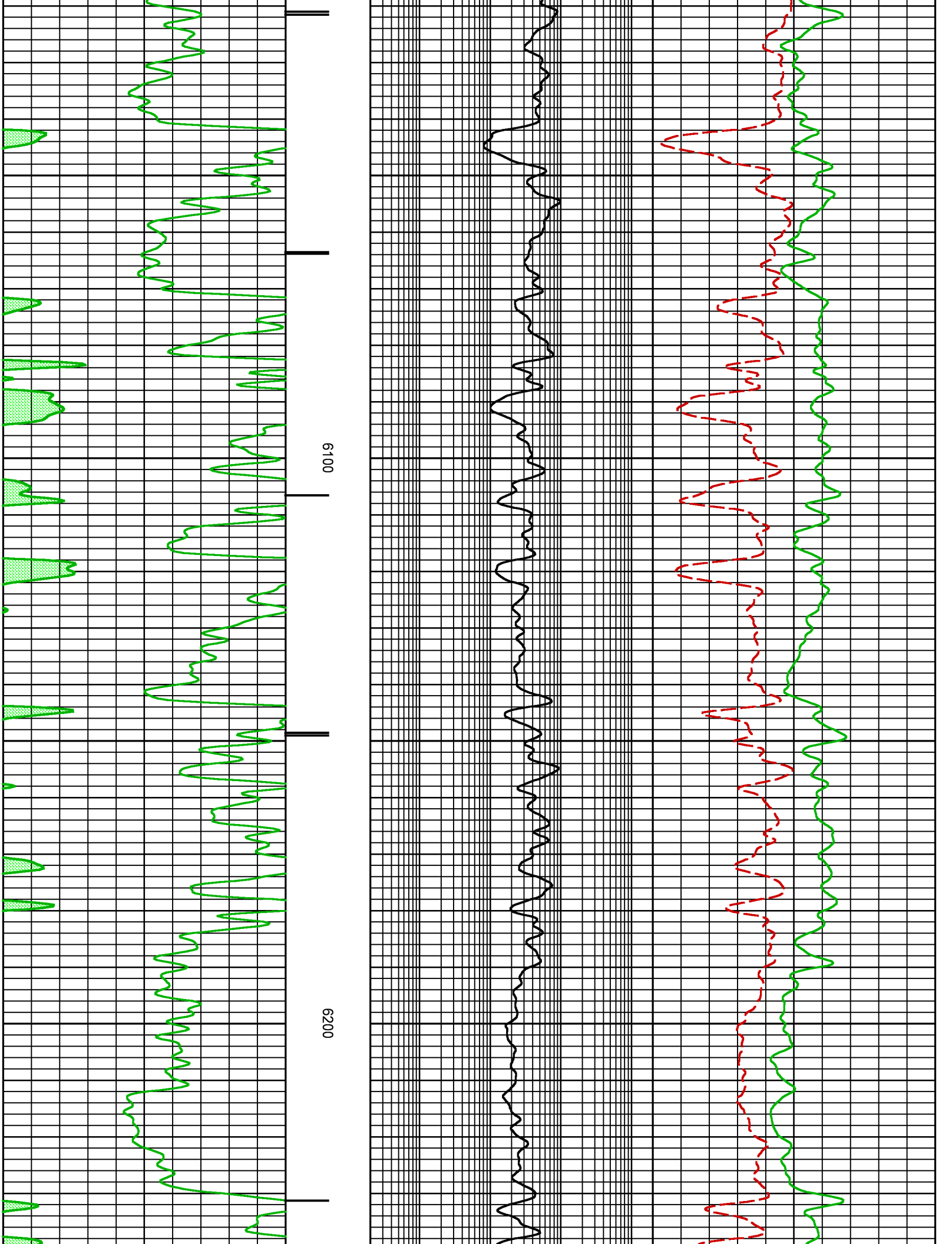


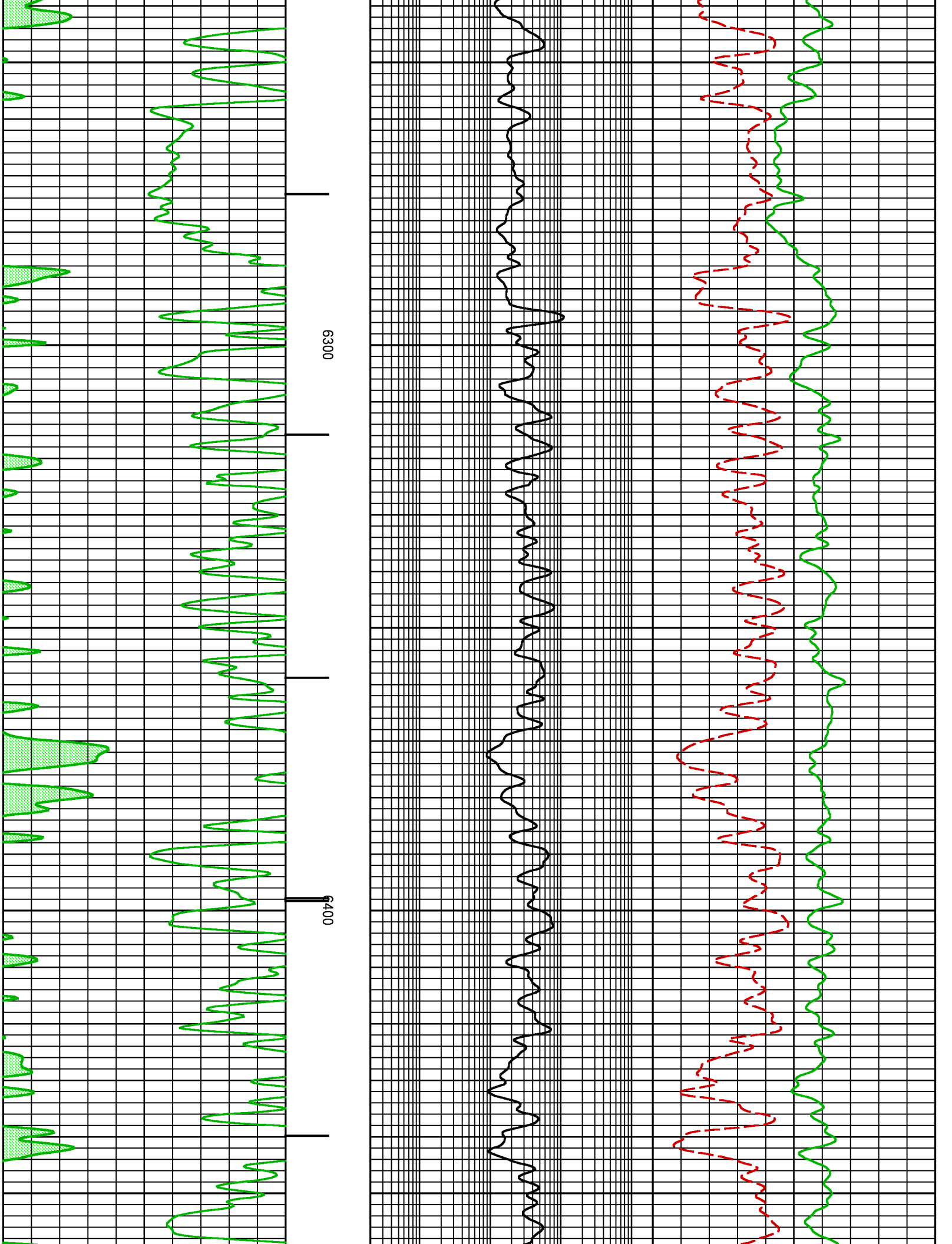


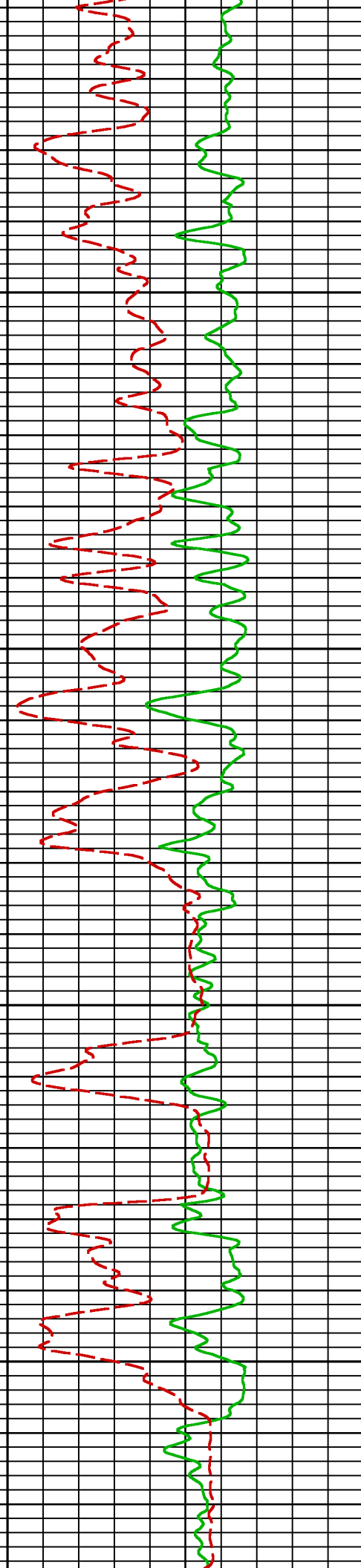
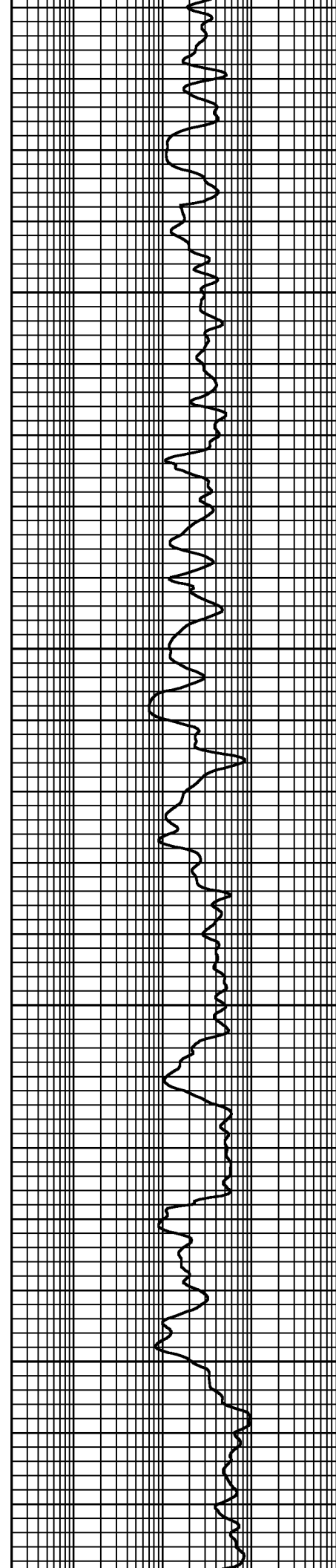
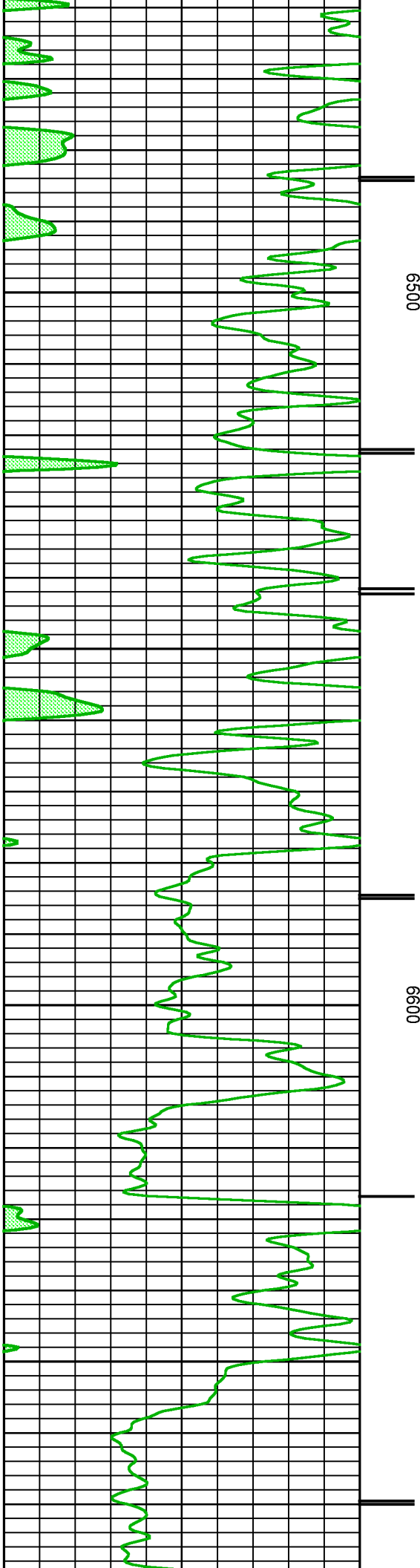


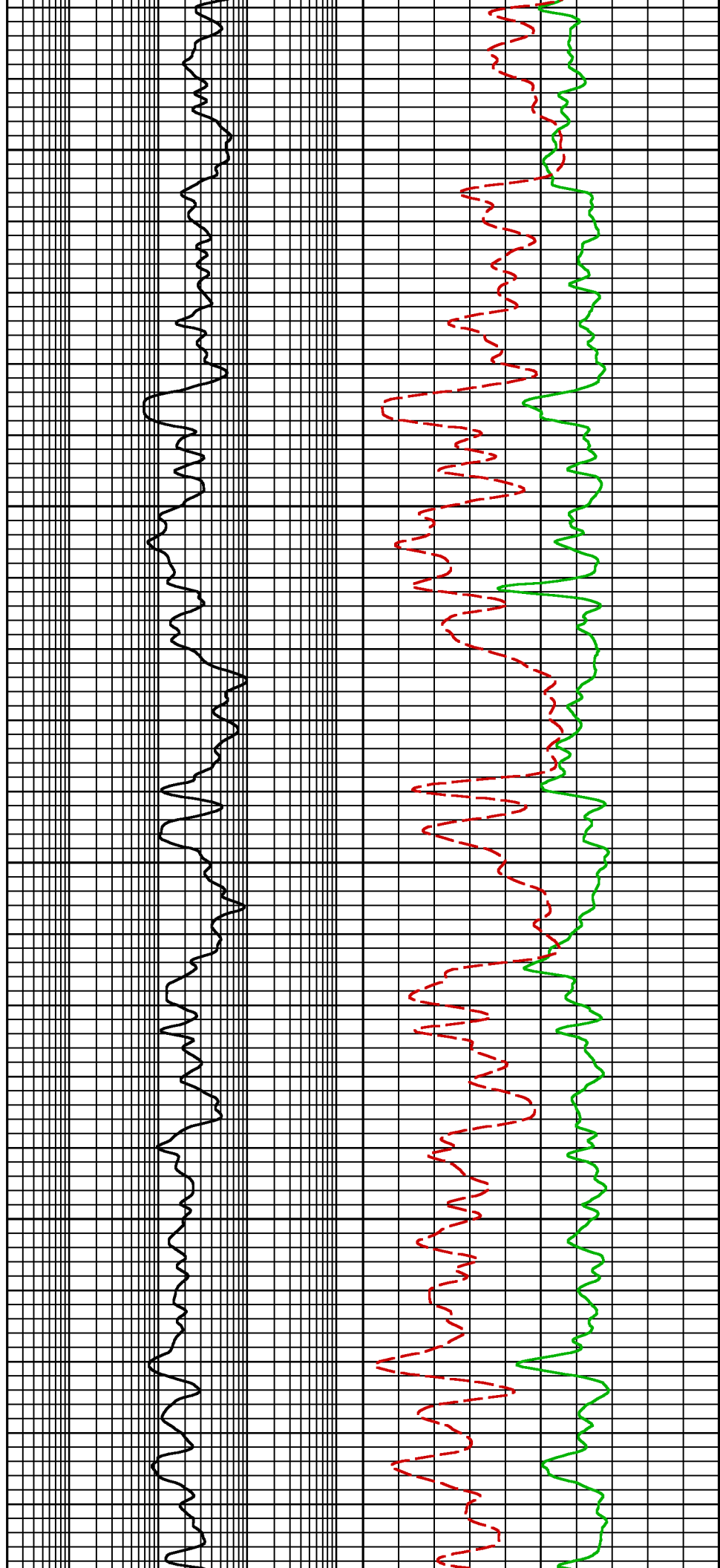
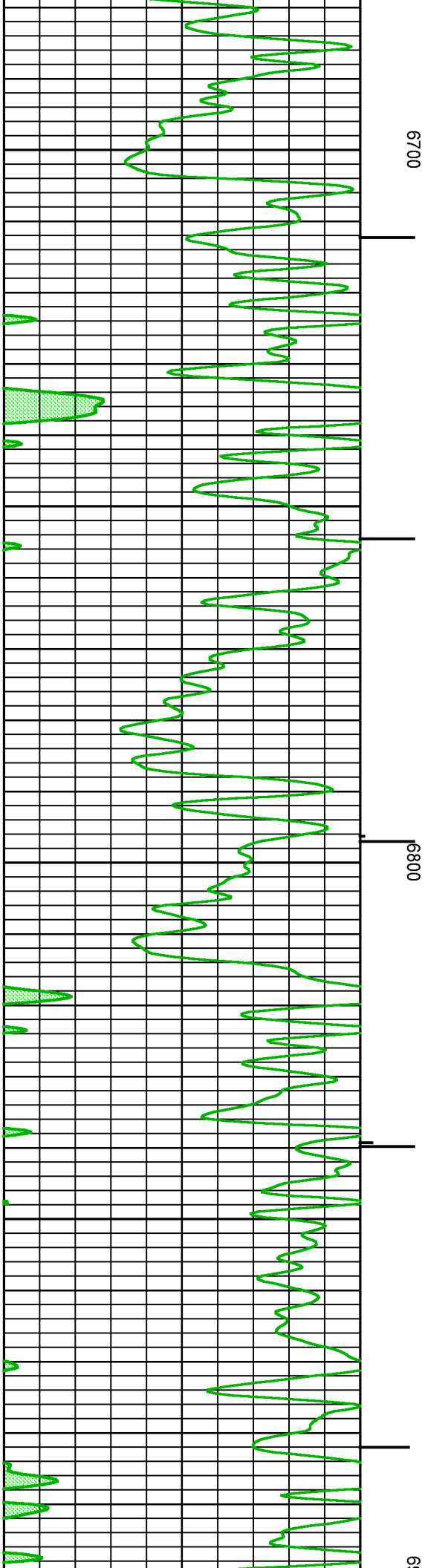


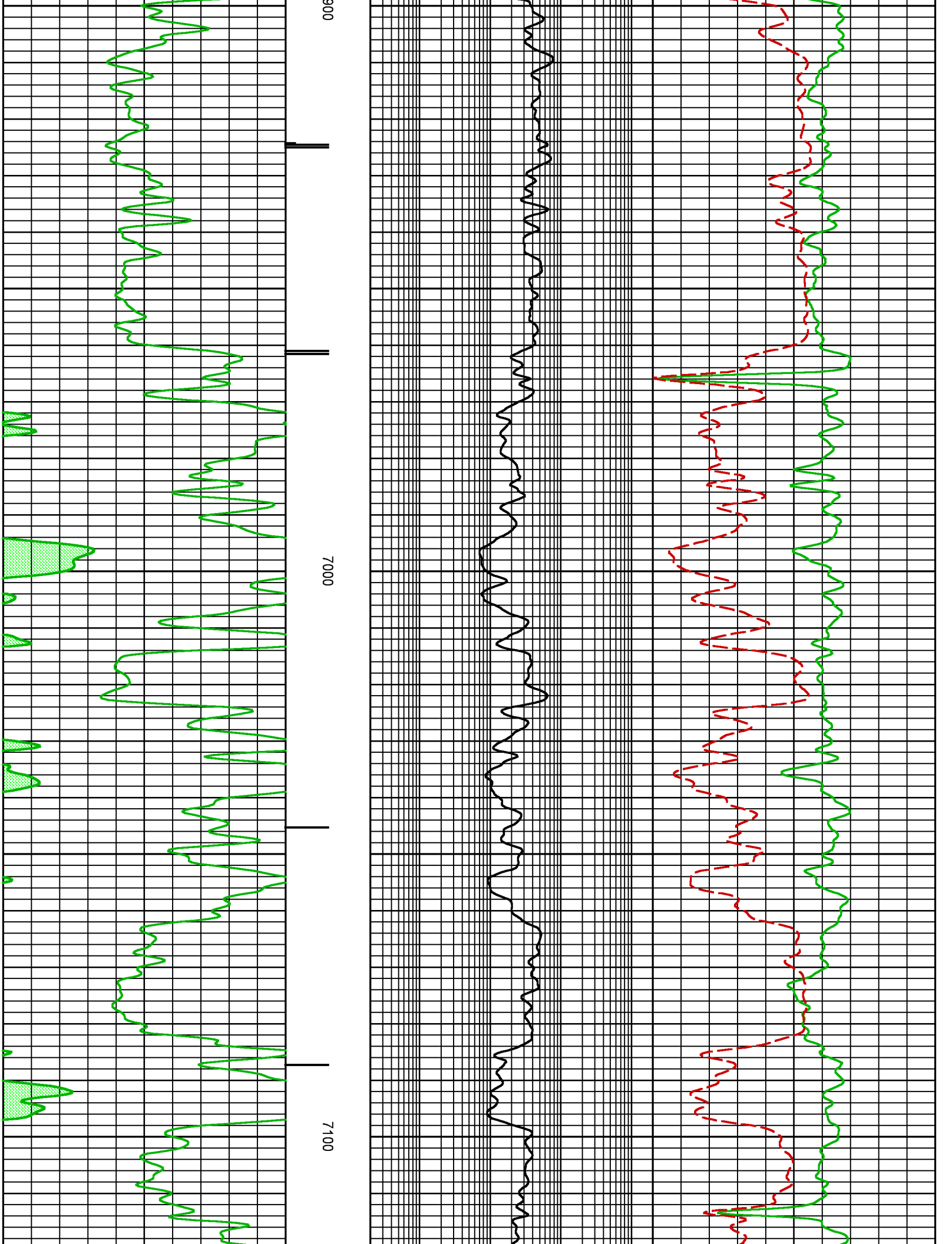


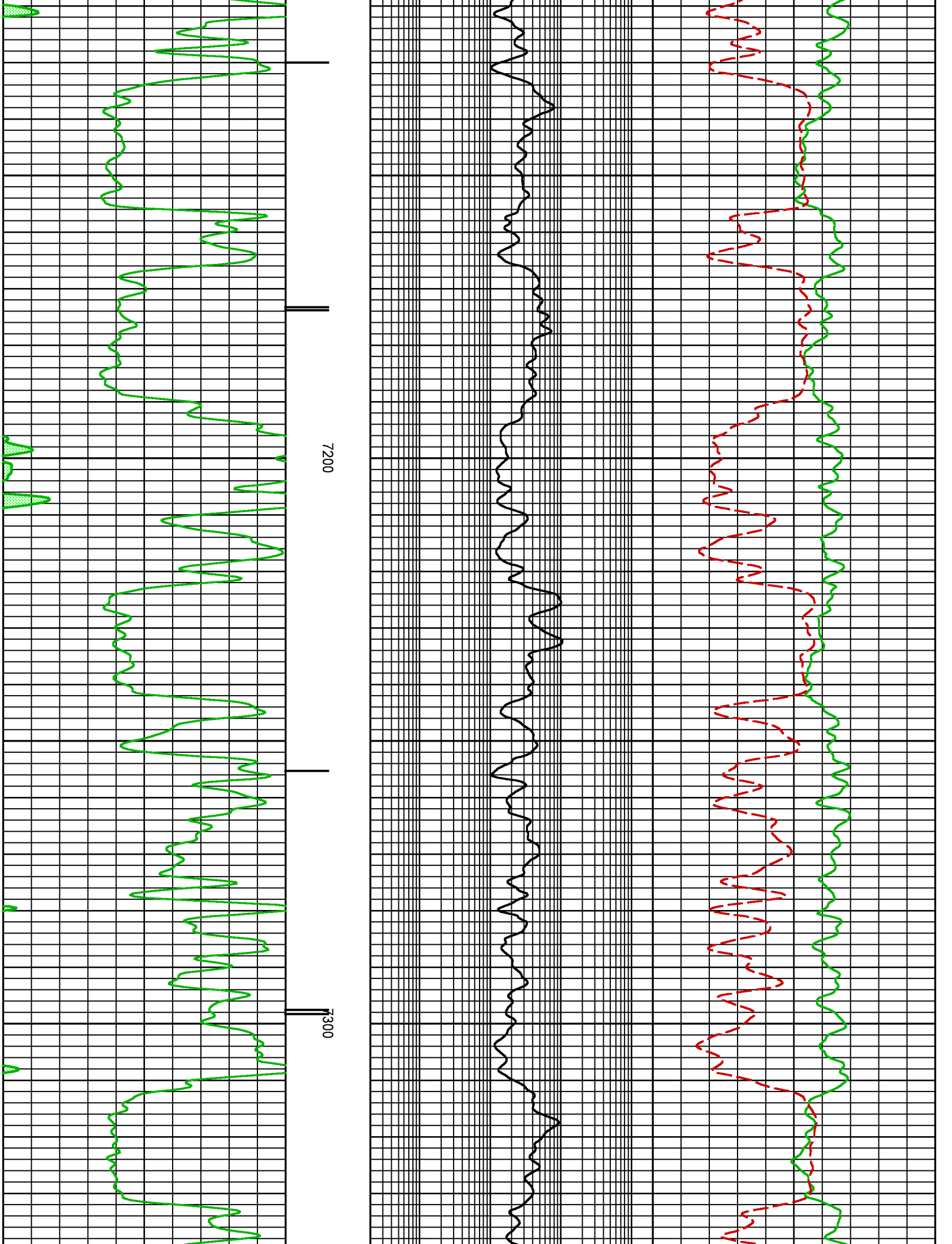


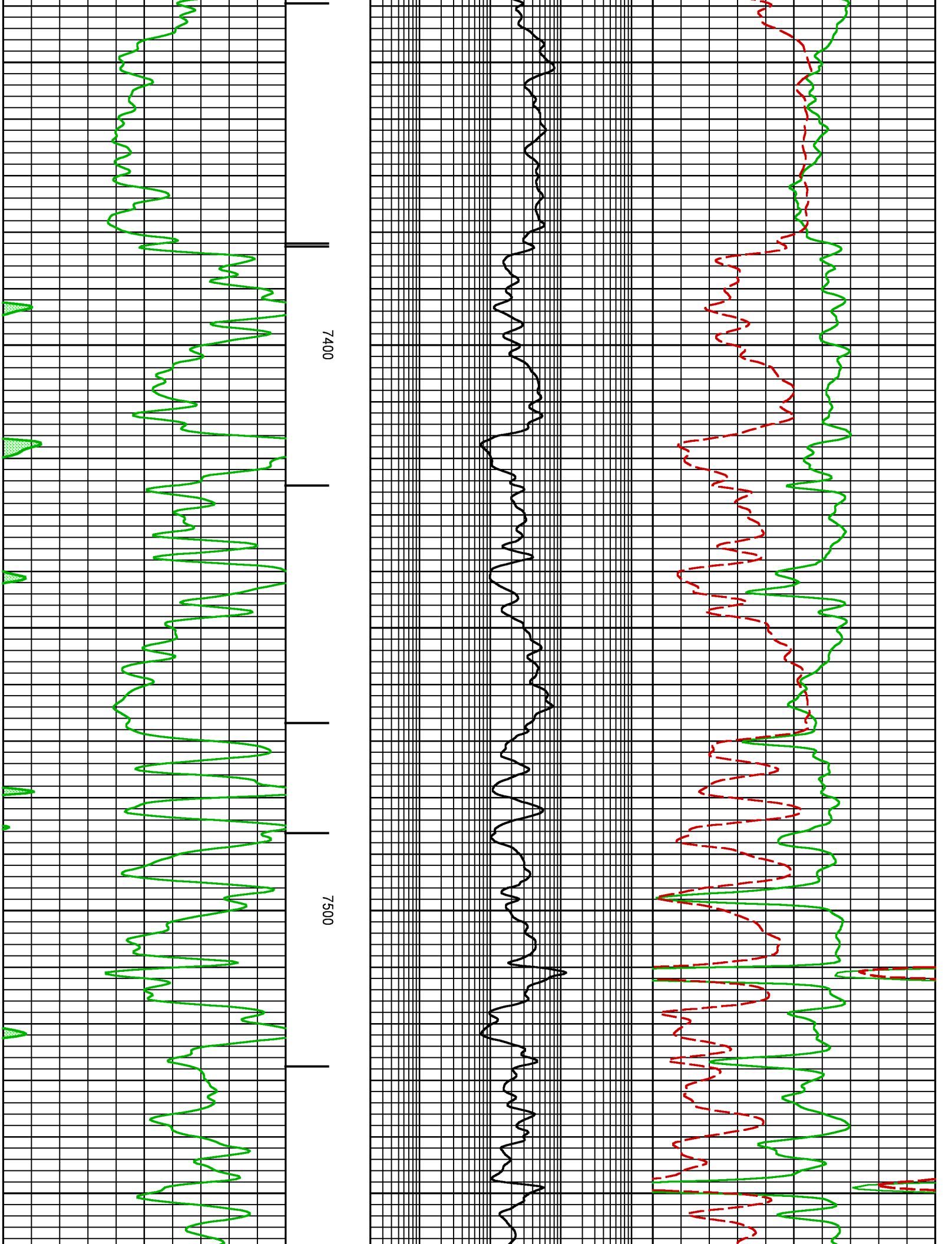


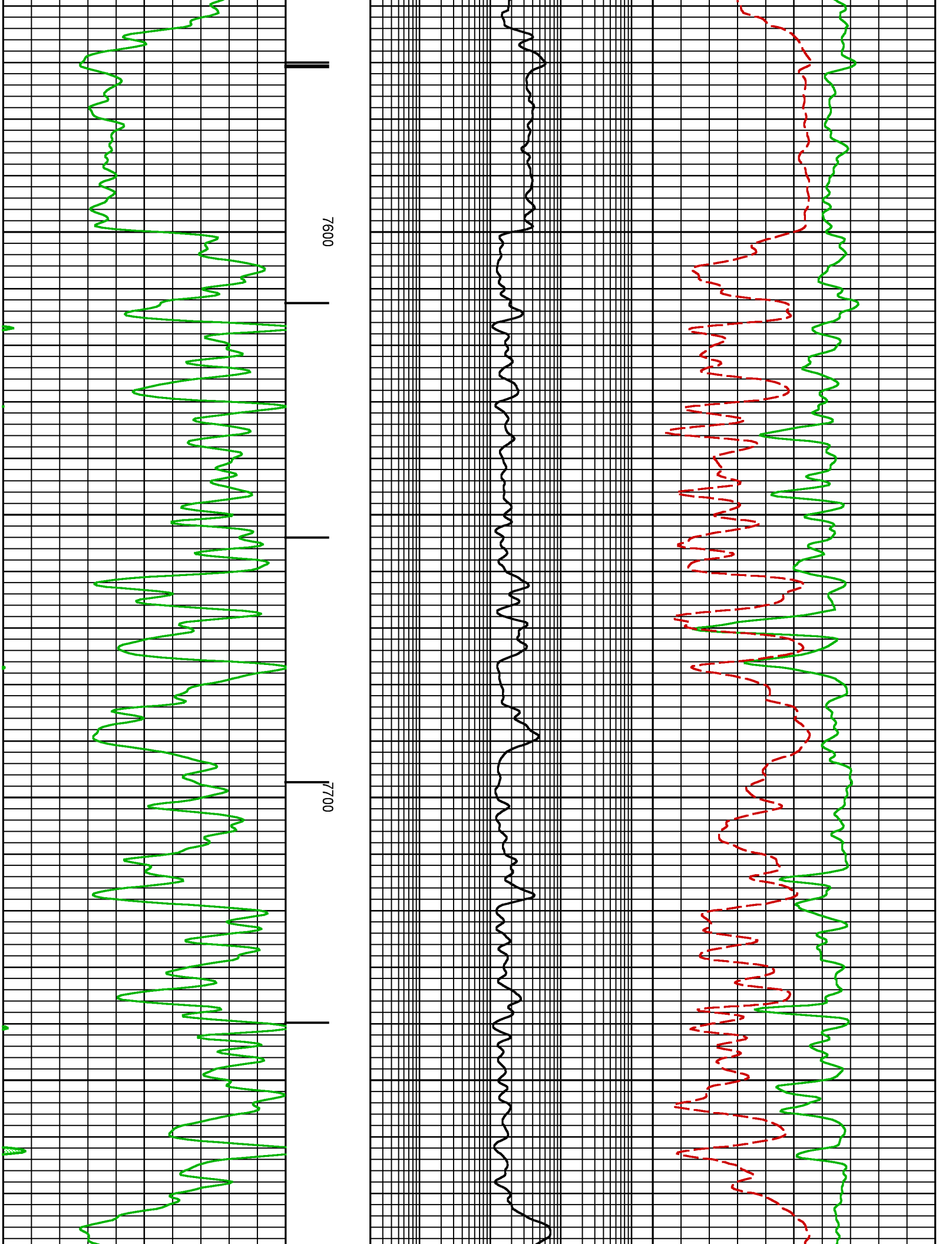


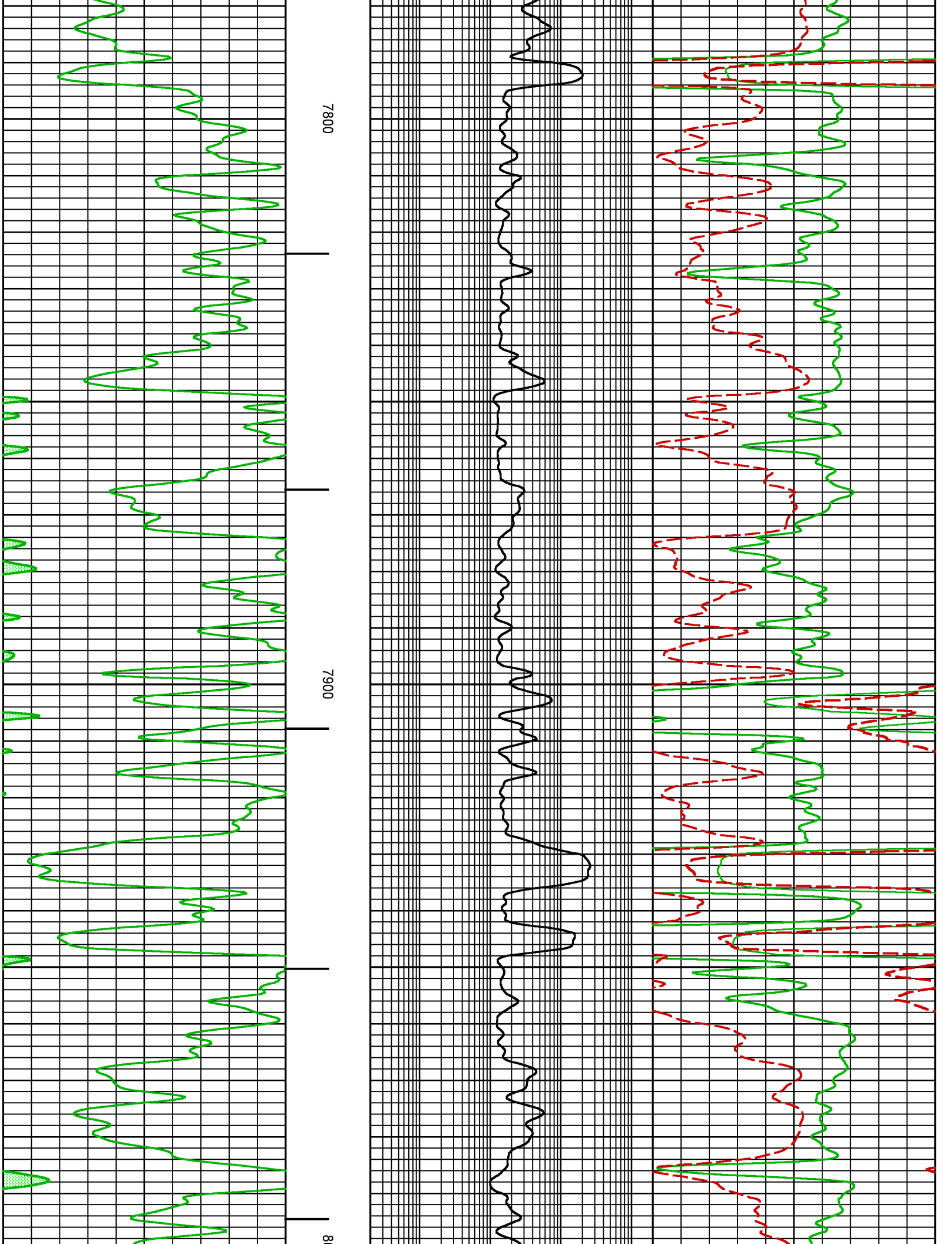


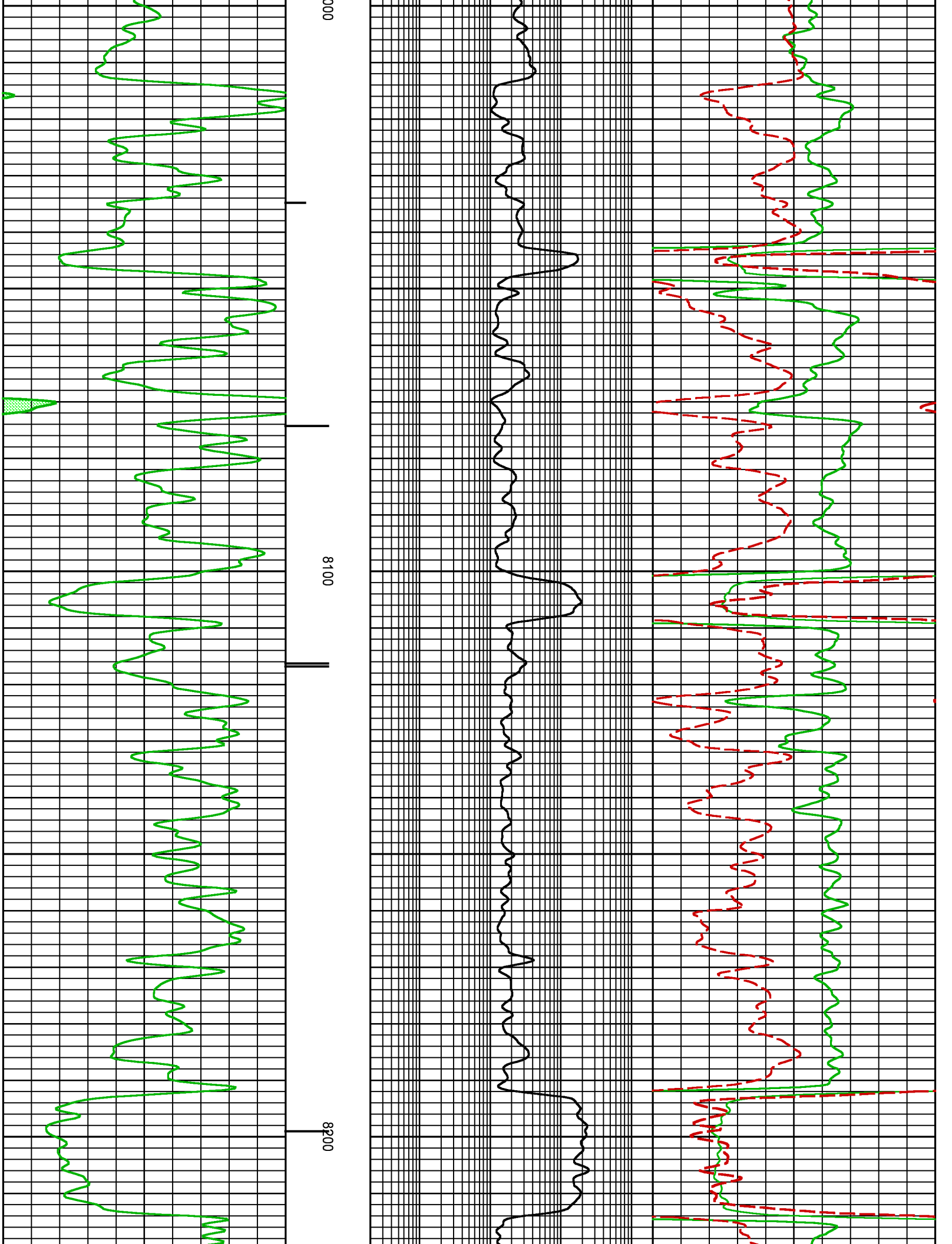


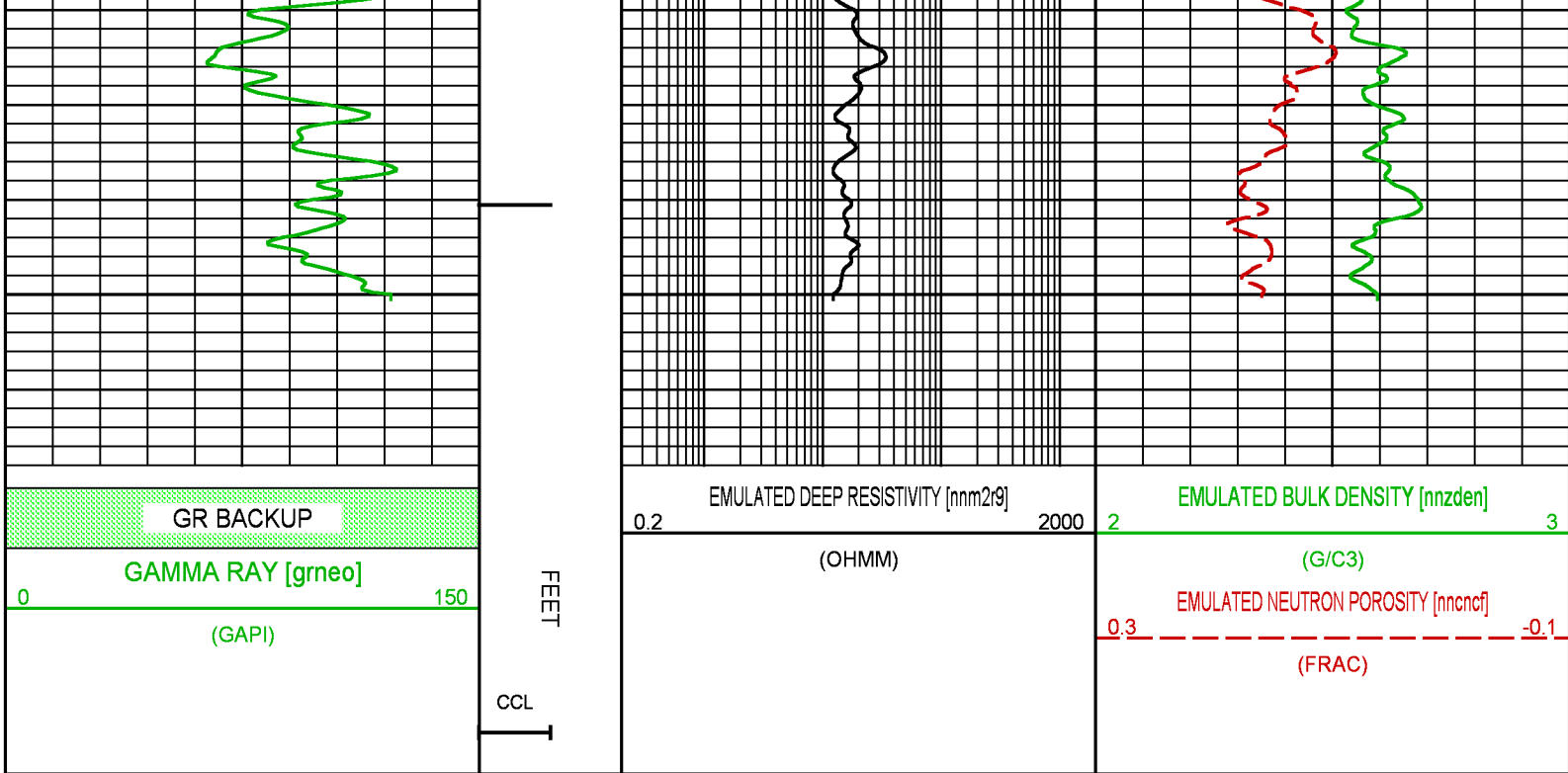



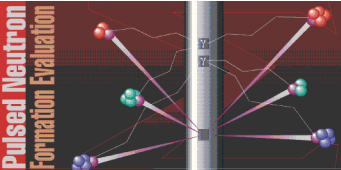










 	COMPANY <u>LARAMIE ENERGY II LLC</u> WELL <u>BCU 0993-21-10E</u> FIELD <u>BUZZARD CREEK</u> COUNTY <u>MESA</u> STATE <u>COLORADO</u>	FILE NO: _____ API NO: <u>05077105220000</u>	
	LOCATION: <u>SEE REMARKS SECTION</u>	ELEVATIONS: KB <u>7287 FT</u> DF _____ GL <u>7257 FT</u>	
	SEC <u>21</u> TWP <u>9S</u> RGE <u>93W</u>	DATE <u>11-NOV-2018</u>	