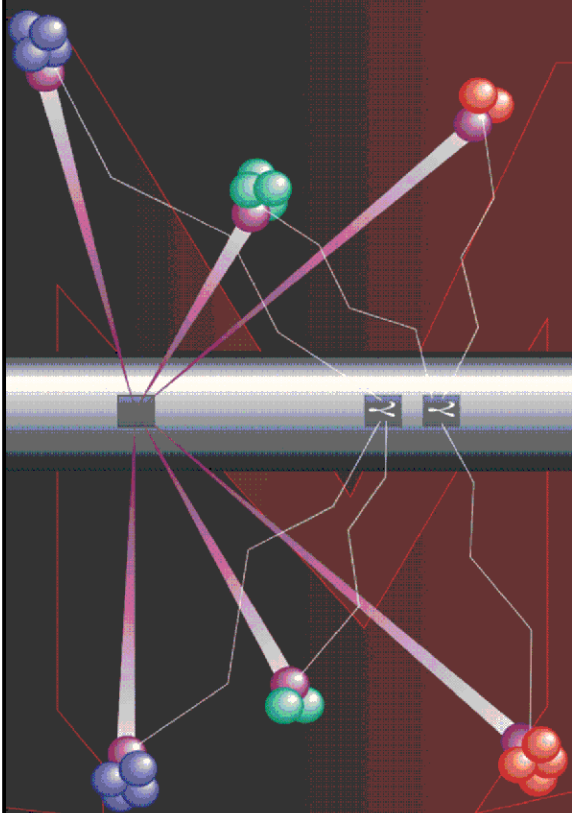


# Pulsed Neutron Formation Evaluation



## NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY II LLC

WELL BCU 0993-21-10W

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 US142943J

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>13-NOV-2018</u>
FIELD DATA	LOCATION: <u>GRAND JUNCTION</u>	ENGINEER: <u>M.BAUKA/US142943J</u>	DATE: <u>11-NOV-2018</u>
FROM	TO		
<u>2304 FT</u>	<u>7591 FT</u>		

### REMARKS

LOCATION:  
SHL: 2387.0' FNL & 1256.0' FWL  
BHL: 2387.0' FNL & 1256.0' FWL

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 BCU 0993-21-10W (G-SAND)

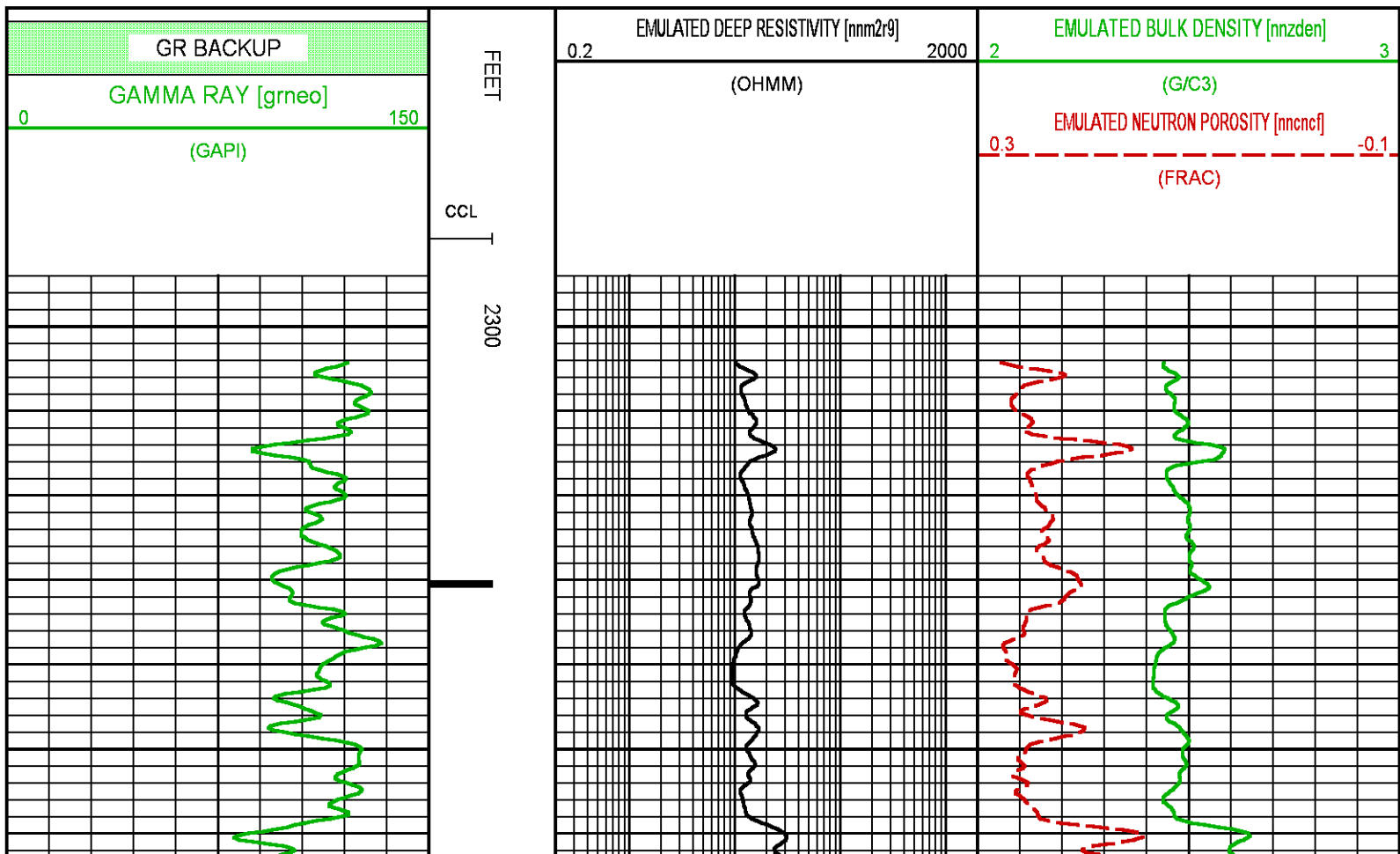
ECLIPS ECPLLOT from ECLIPS 7.0 WFM 6.0.7905.1 Wed 08/23/2017 09:02:35.01

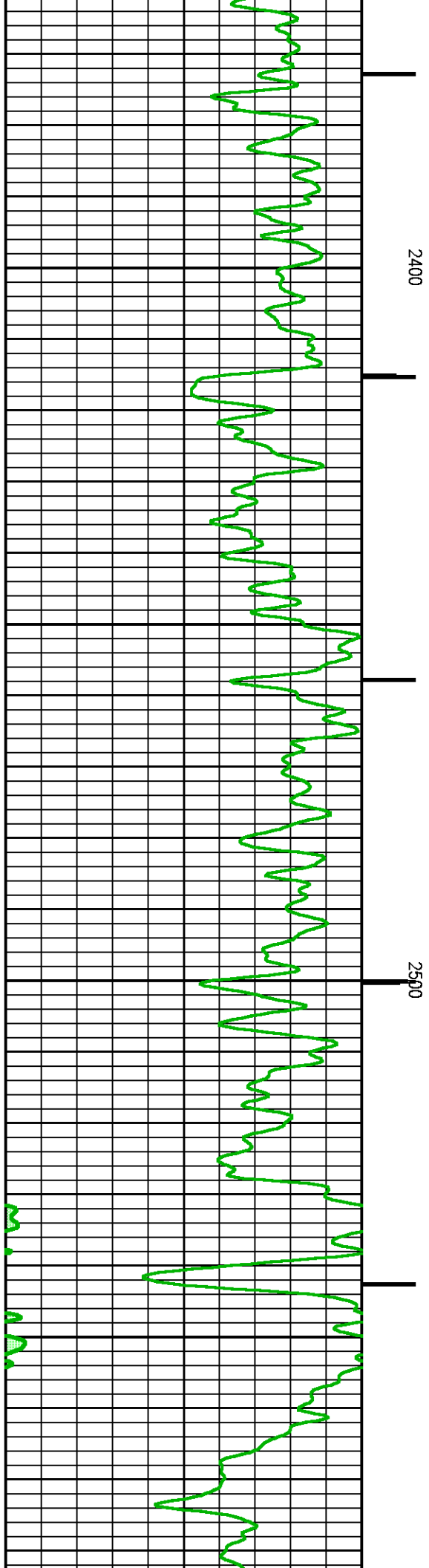
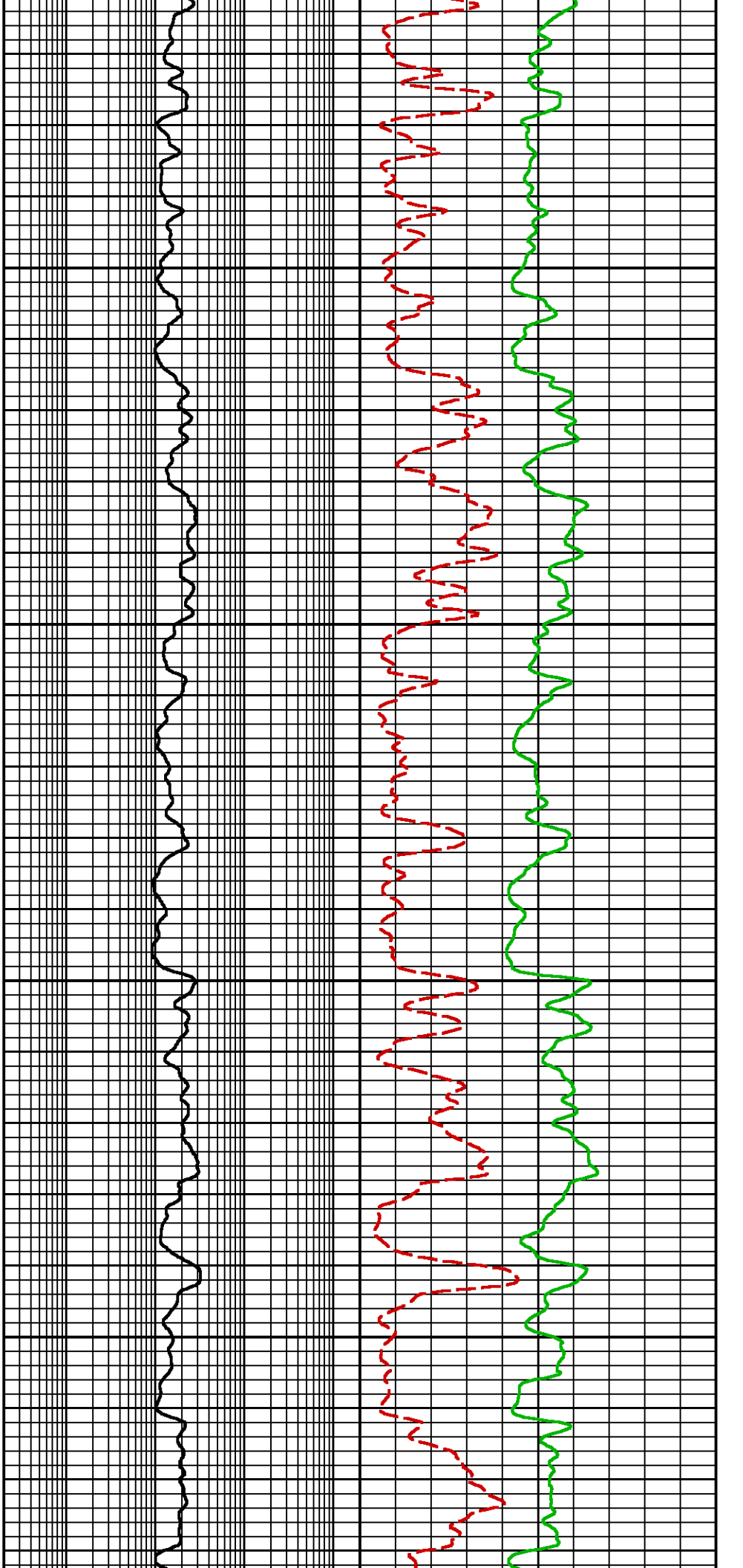
Plotted: Tue Nov 13 15:47:31 2018

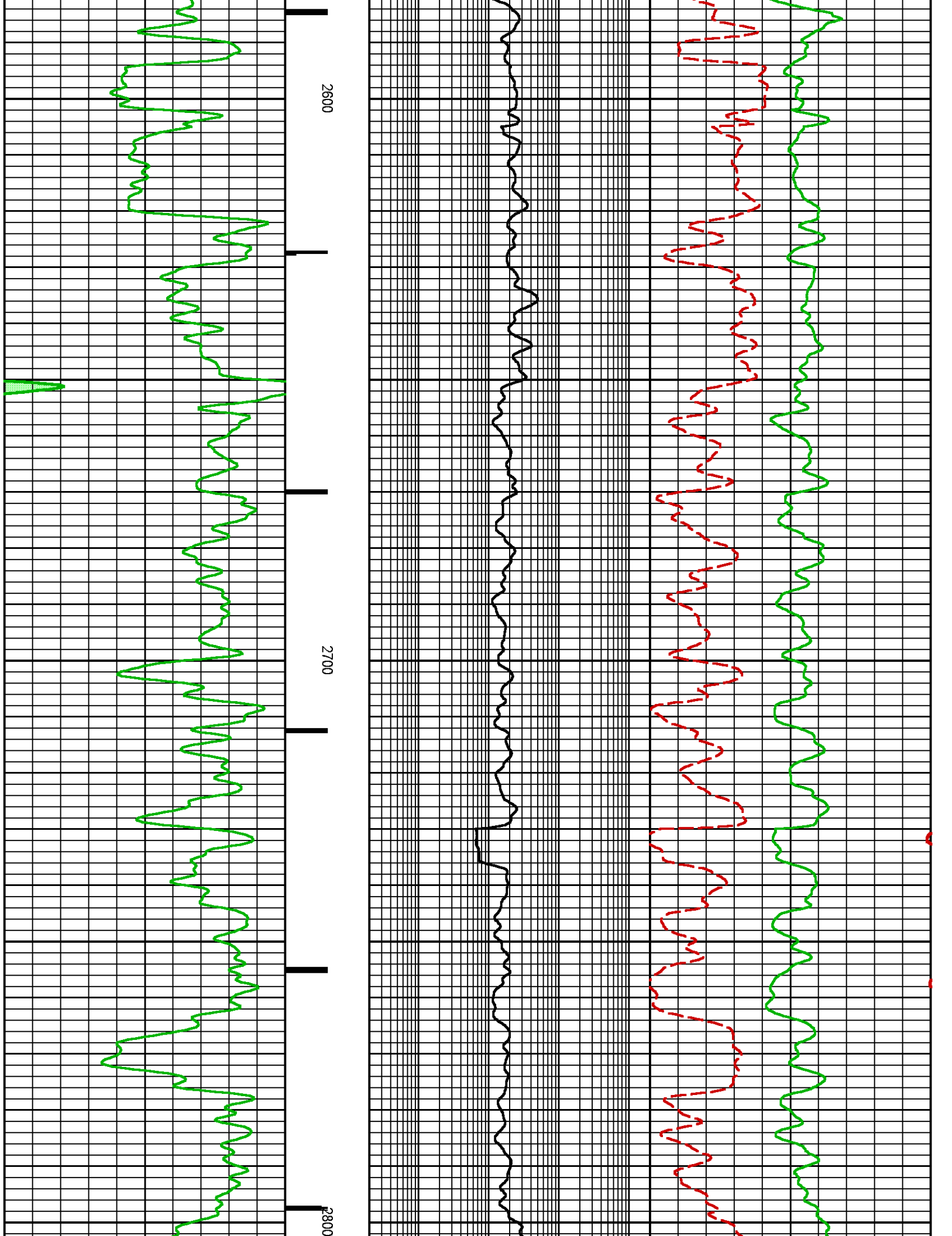
## CURVE MEASURE POINT OFFSET

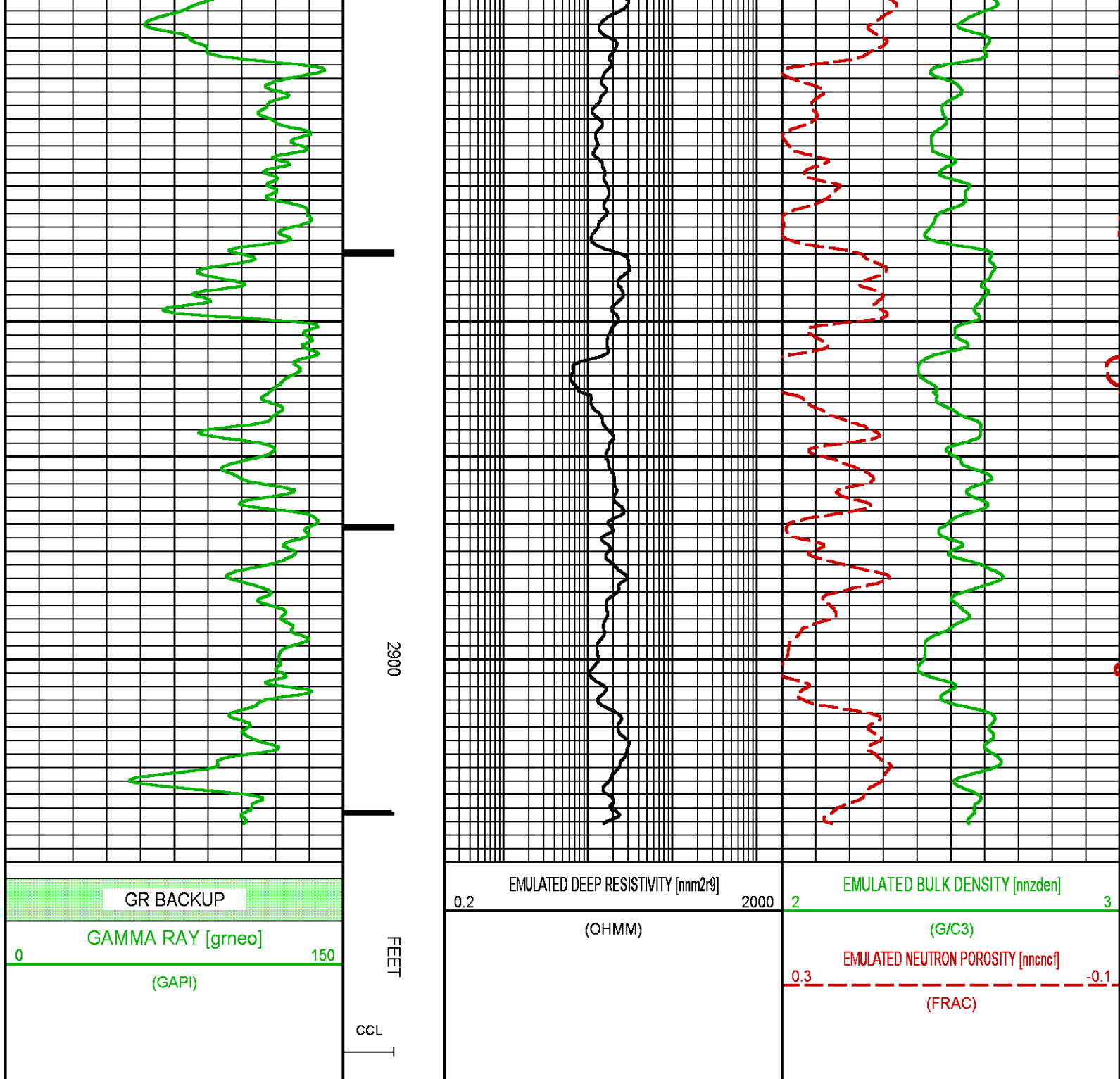
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNCf	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

**Project** : NA  
**User** : kotoale  
**Presentation** : BHI1F65XZ1:D:\Ape\_Projects\LARAMIE\_BCU\_0993\_21\_10W\_NEO\NEO\_PRESENTATION\_LARAMIE\_G-Sand.pdf [5"/100" Scale]  
**Plot Interval** : 2294 - 2930 Feet  
**Data File 1** : F1 : BHI1F65XZ1:D:\Ape\_Projects\LARAMIE\_BCU\_0993\_21\_10W\_NEO\Merged\_Set\_Final.xtf  
**Created On** : Nov 13 15:36:47 2018  
**Company** : LARAMIE ENERGY LLC  
**Well** : BCU 0993-21-10W  
**Field** : BUZZARD CREEK  
**File Interval** : 2304.25 - 7591.25 Feet  
**OCT** : NA









## NEO RESULTS FOR BCU 0993-21-10W (MAIN)

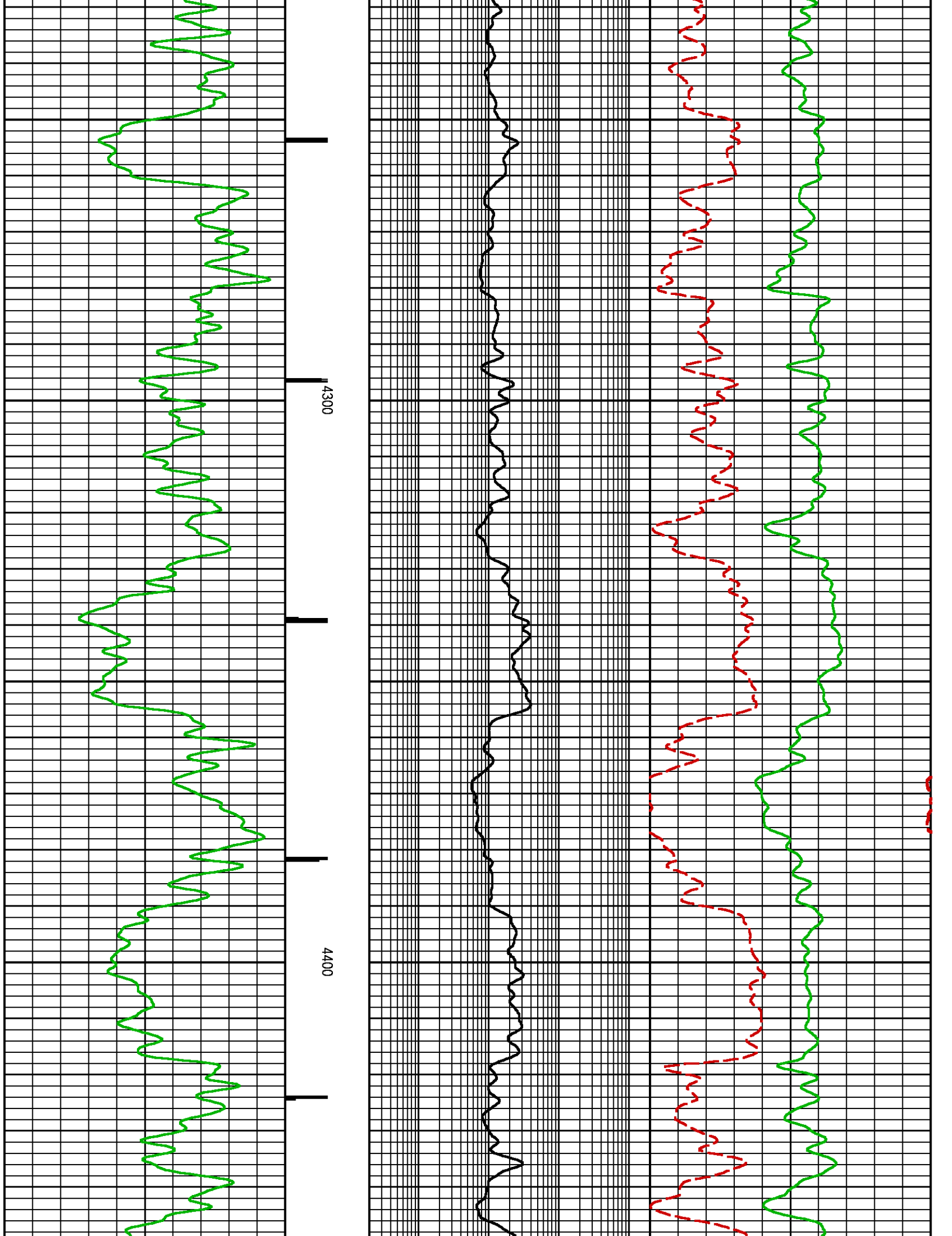
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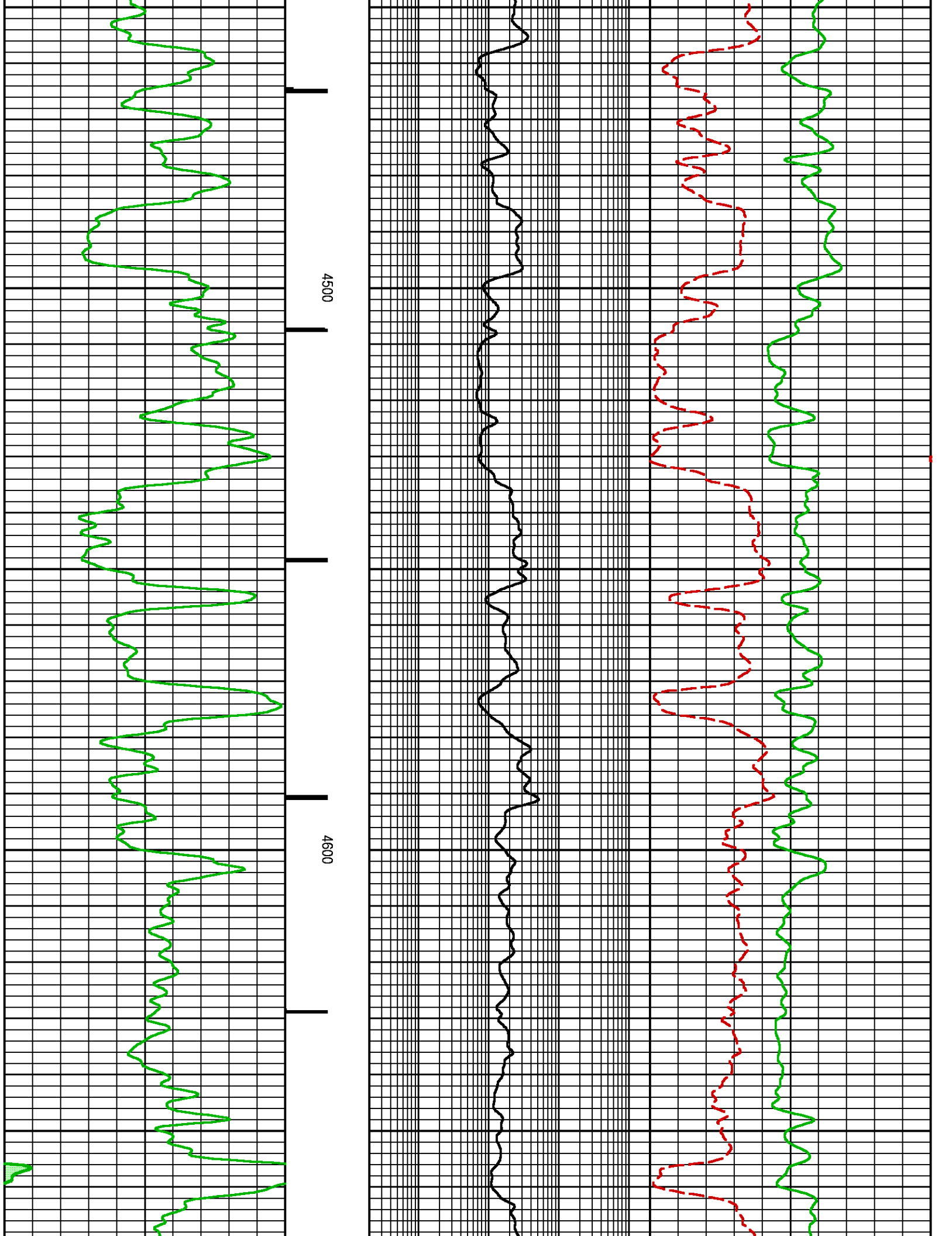
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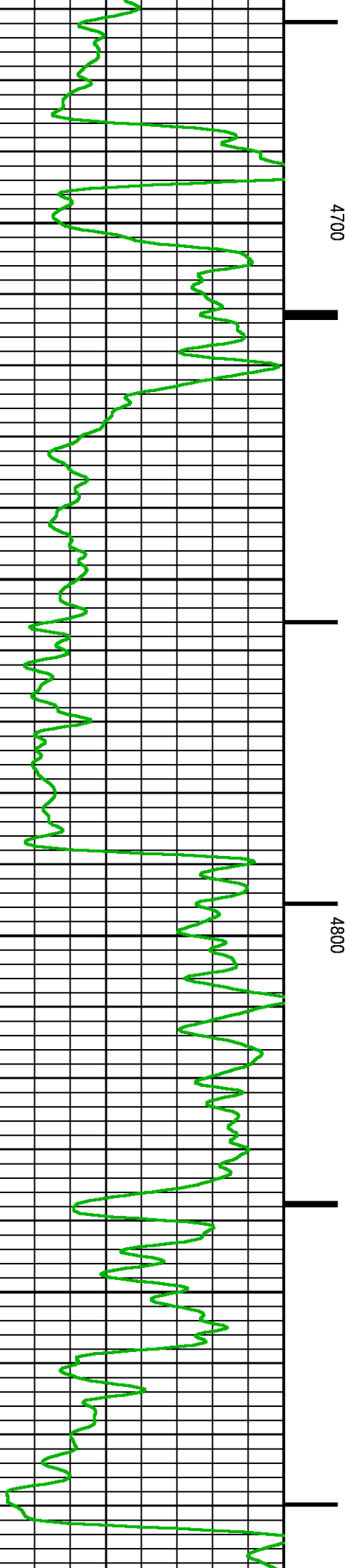
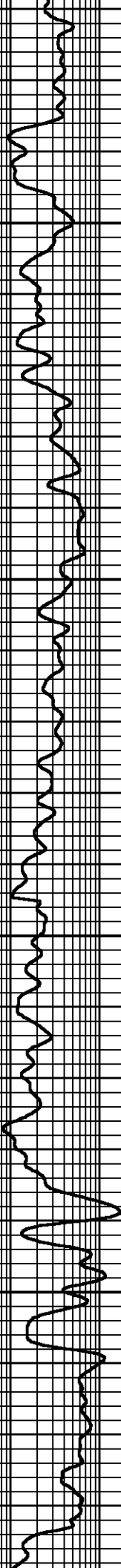
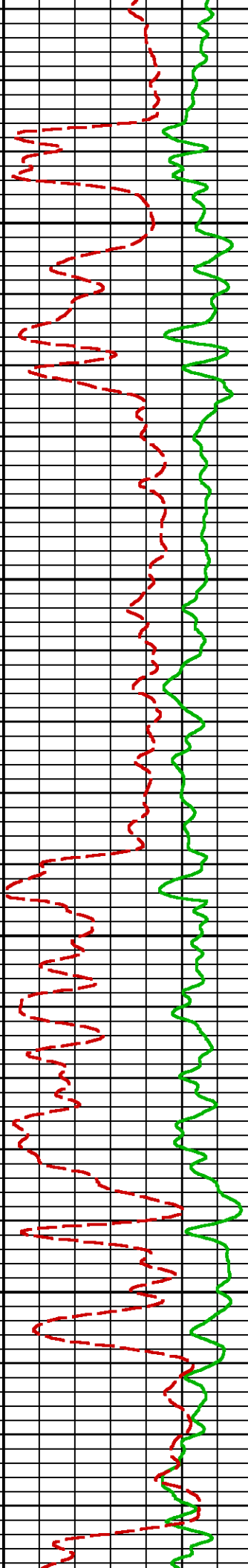
CURVE MEASURE POINT OFFSET

CURVE MEASURE POINT OFFSET CURVE MEASURE POINT OFFSET CURVE MEASURE POINT OFFSET CURVE MEASURE POINT OFFSET

GR BACKUP		EMULATED DEEP RESISTIVITY [nm2r9]		EMULATED BULK DENSITY [nnzden]	
GAMMA RAY [grneo]		(OHMM)		(G/C3)	
(GAPI)				EMULATED NEUTRON POROSITY [nnncnf]	
				(FRAC)	
0	150	0.2	2000	2	3
CCL				0.3 -0.1	
4100					
4200					

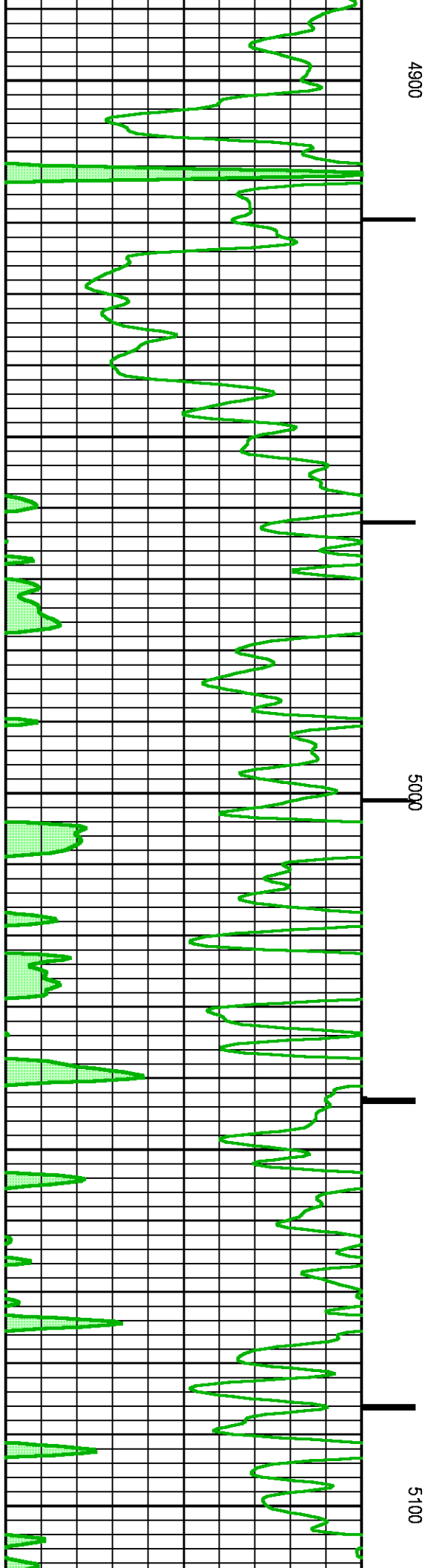
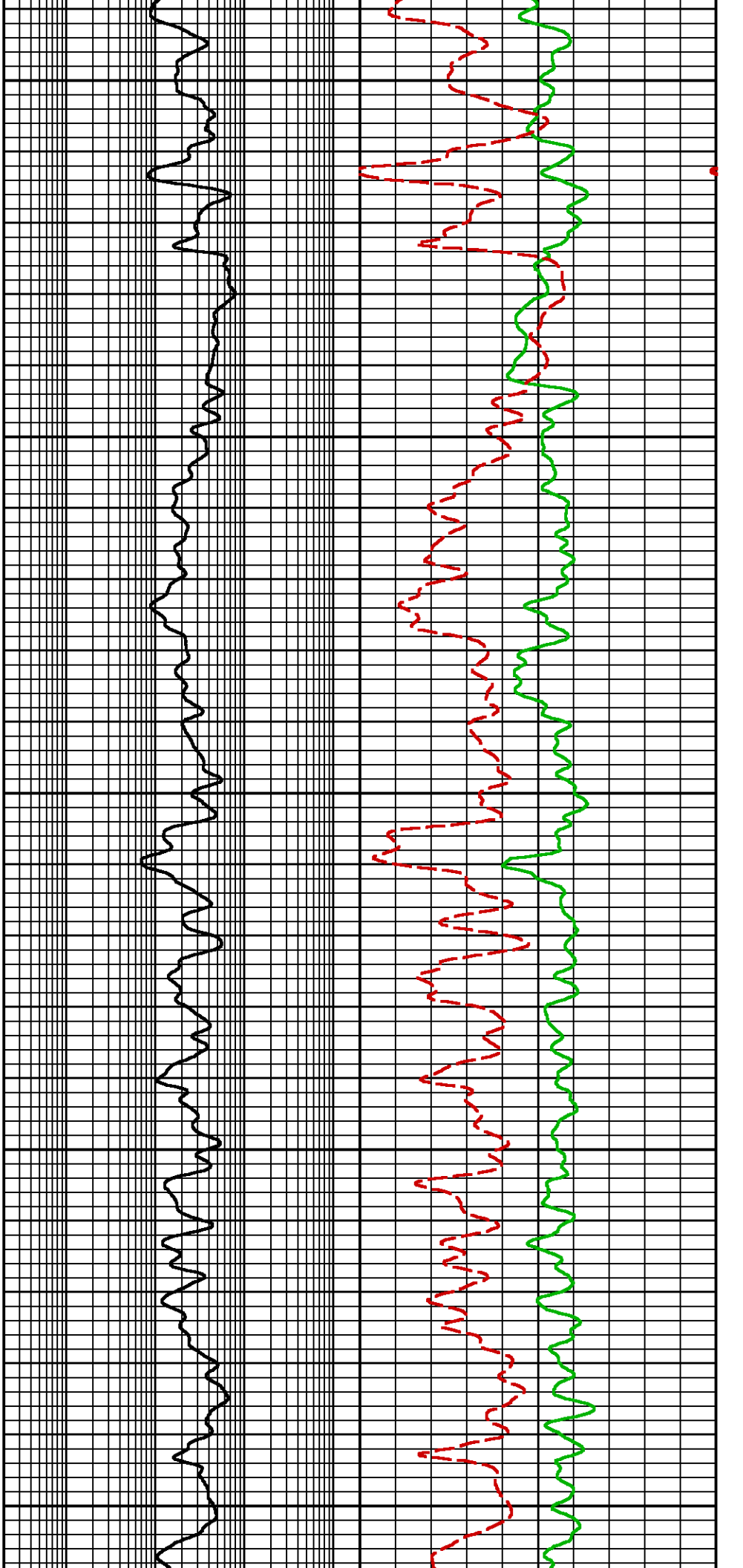


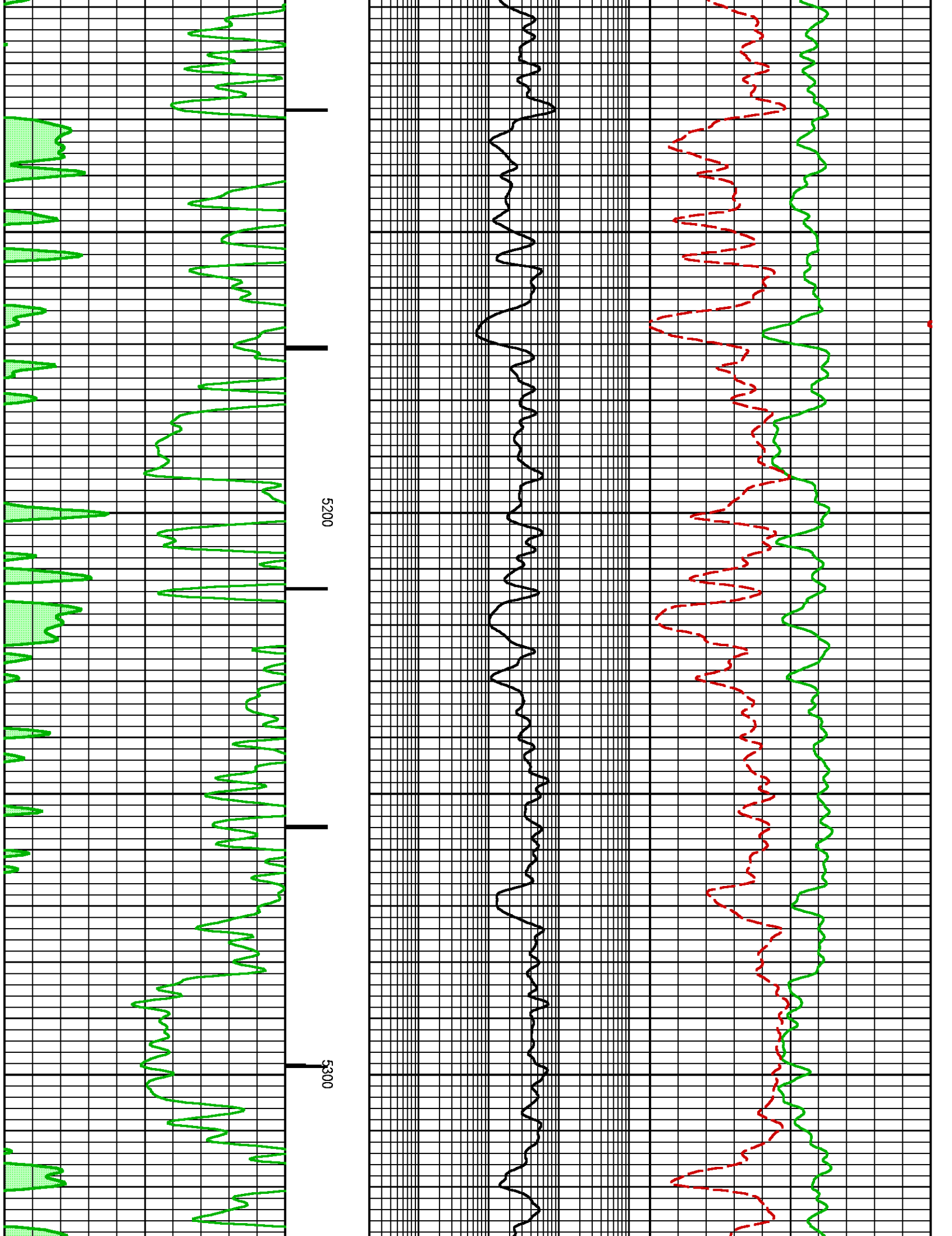


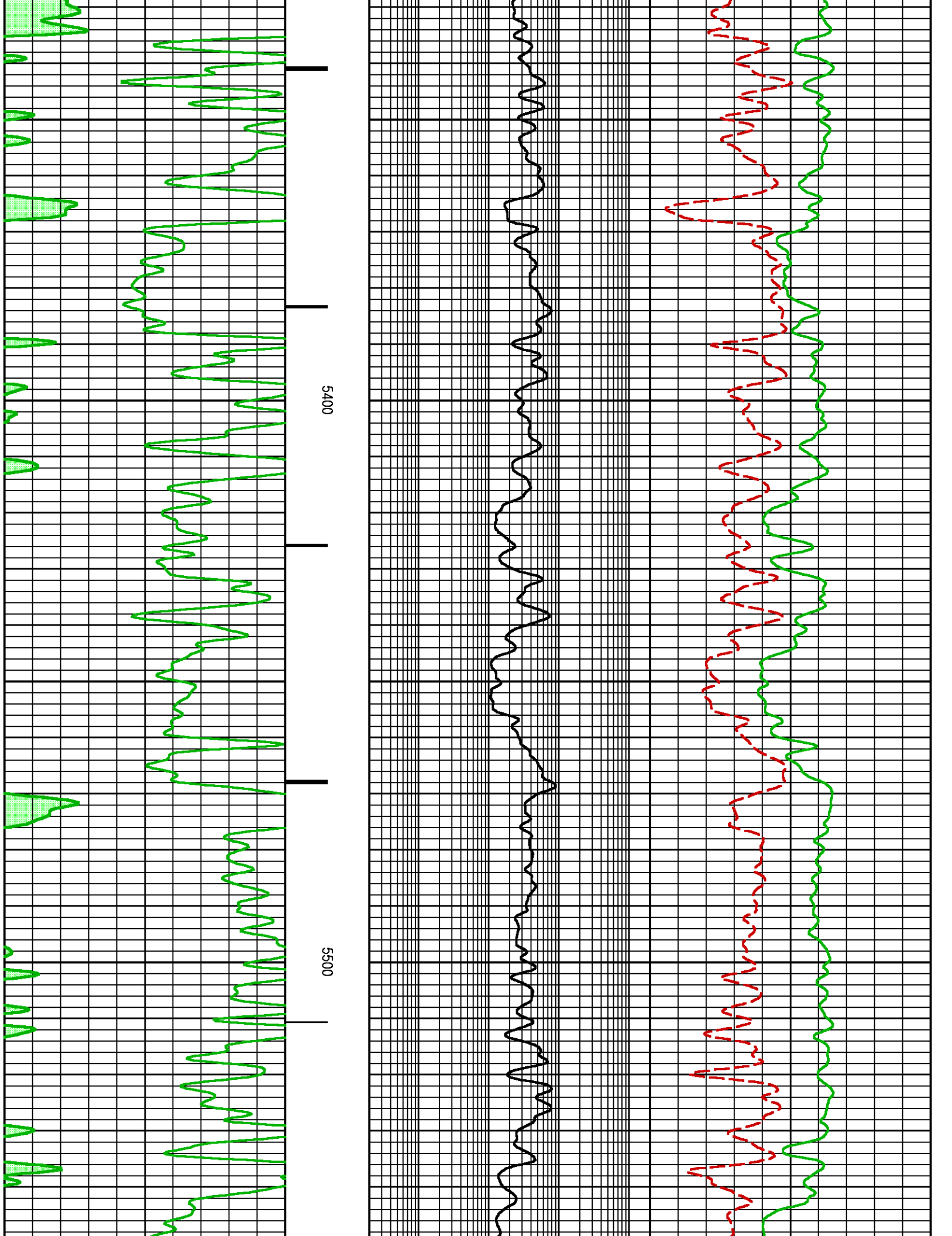


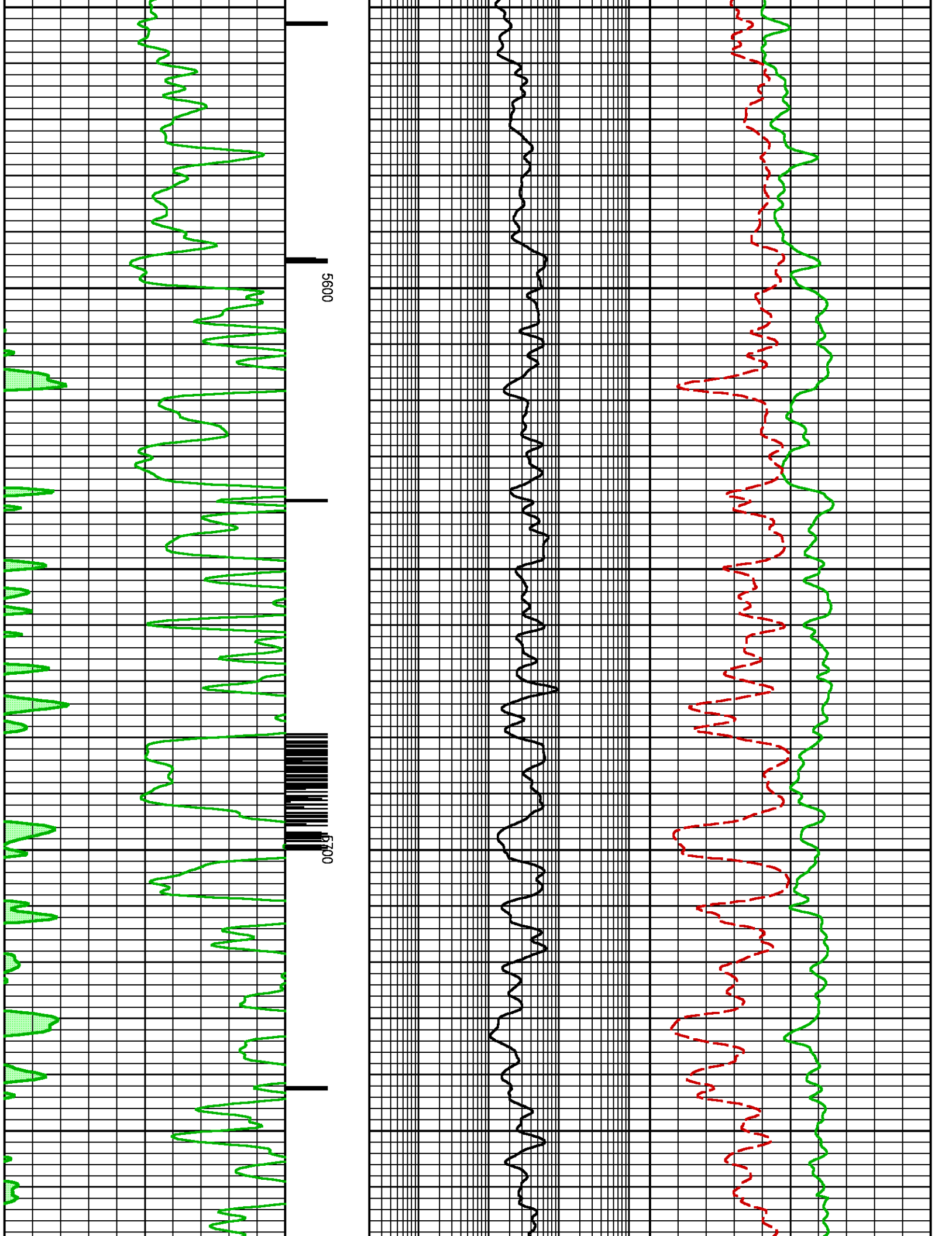
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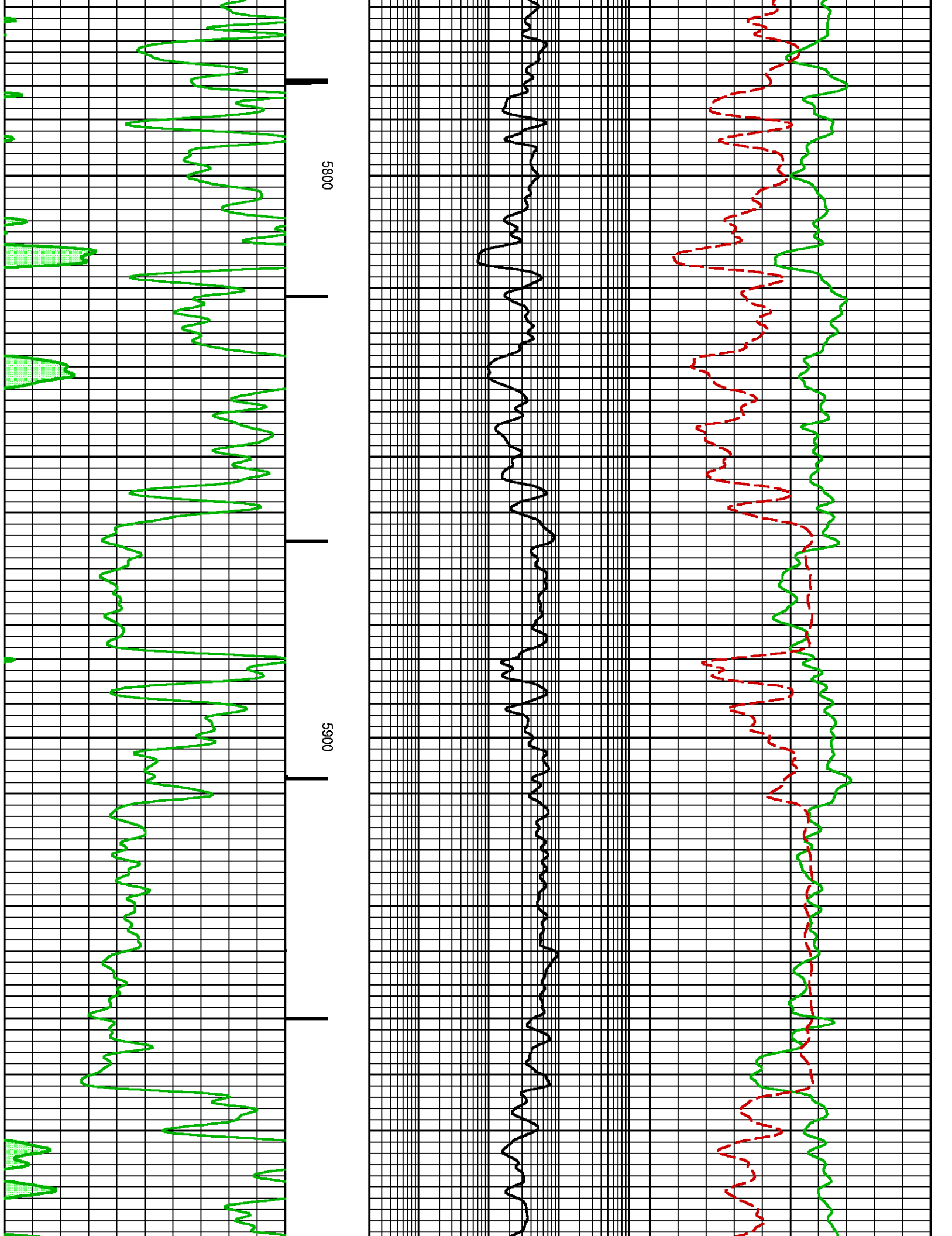
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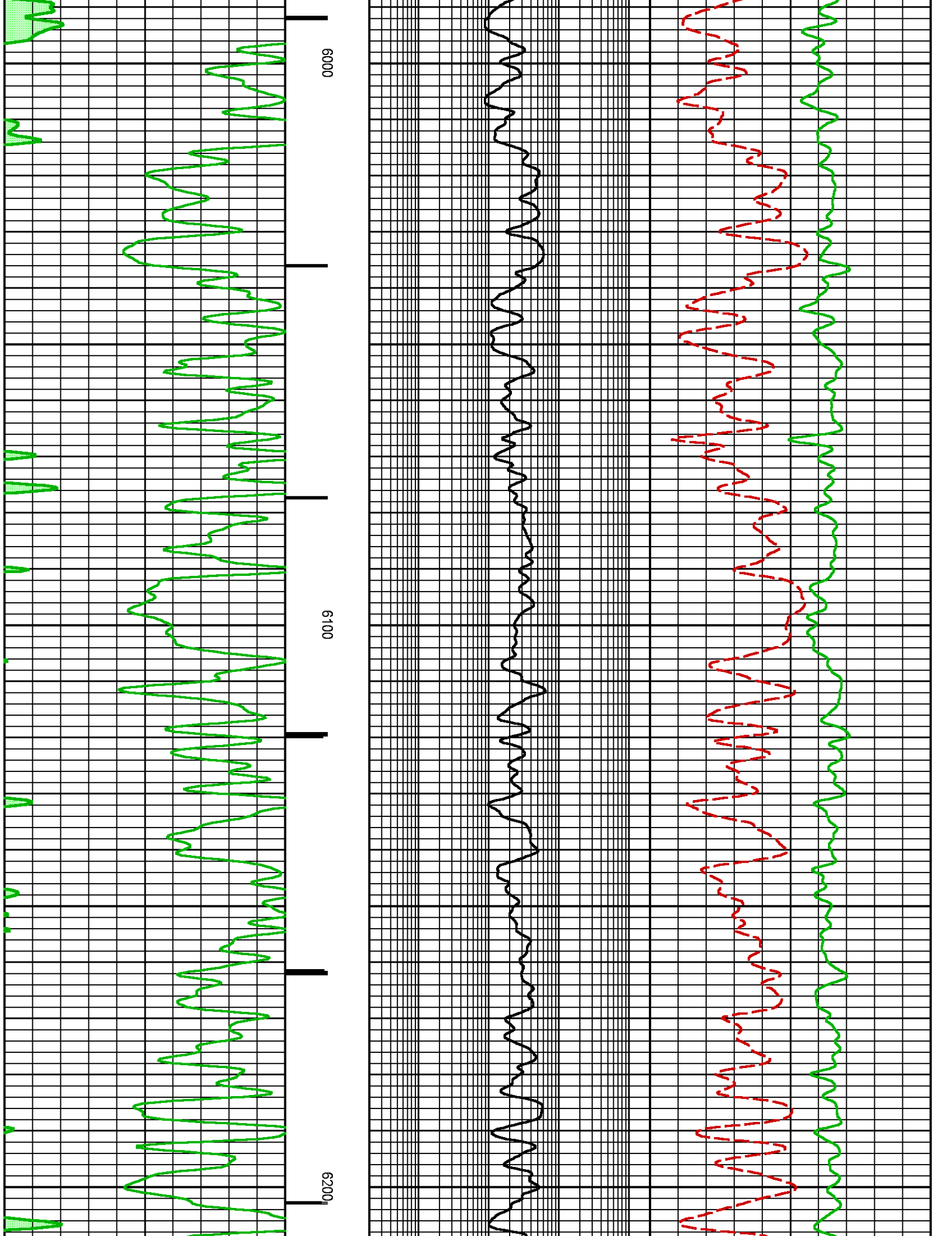


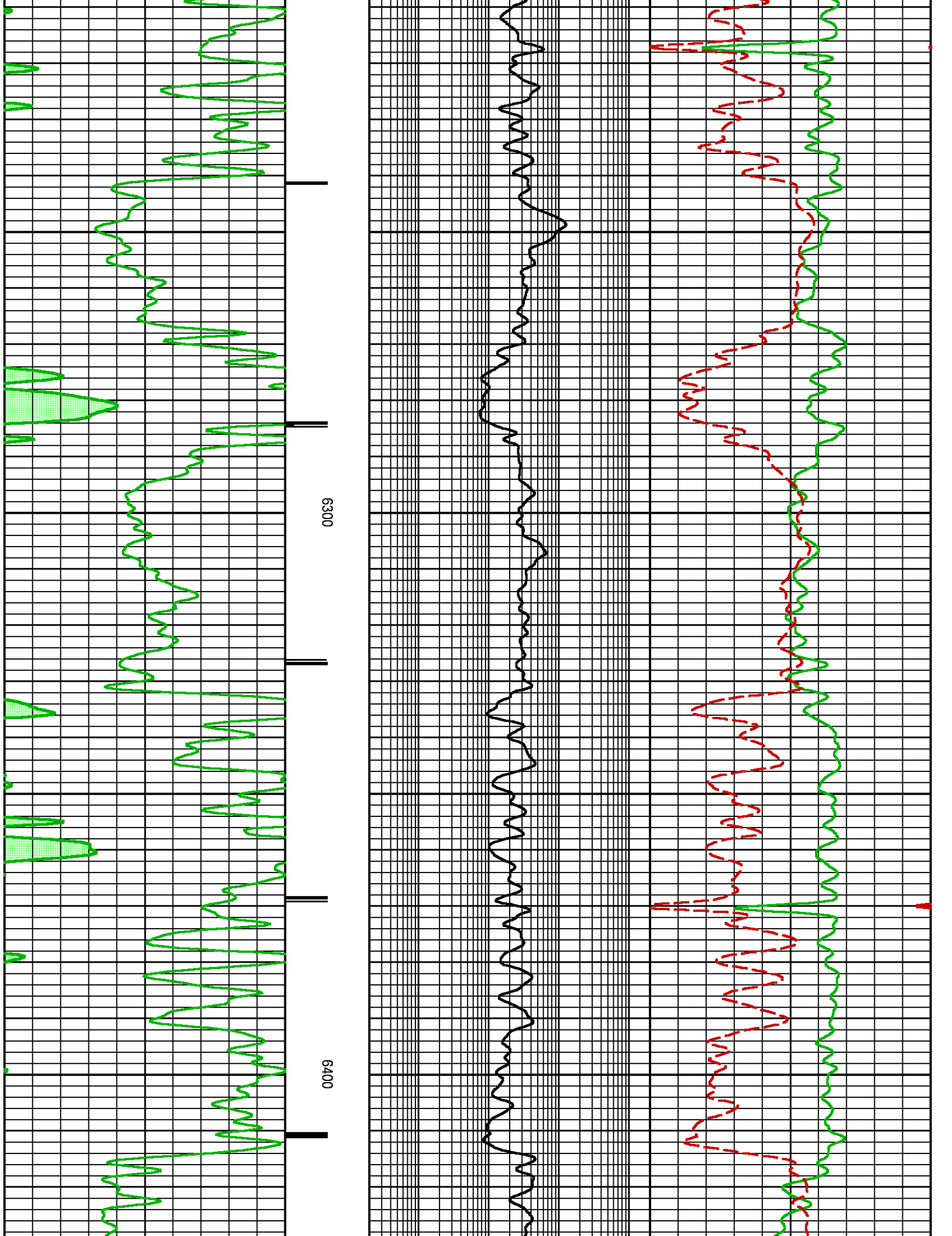


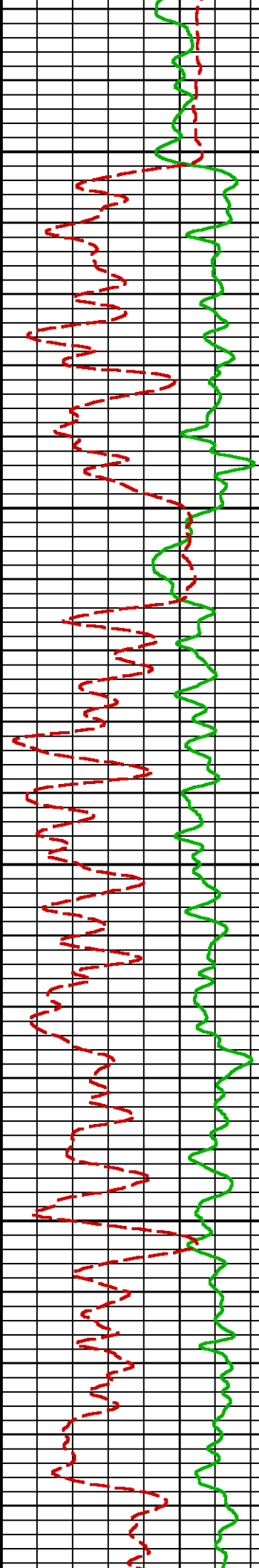
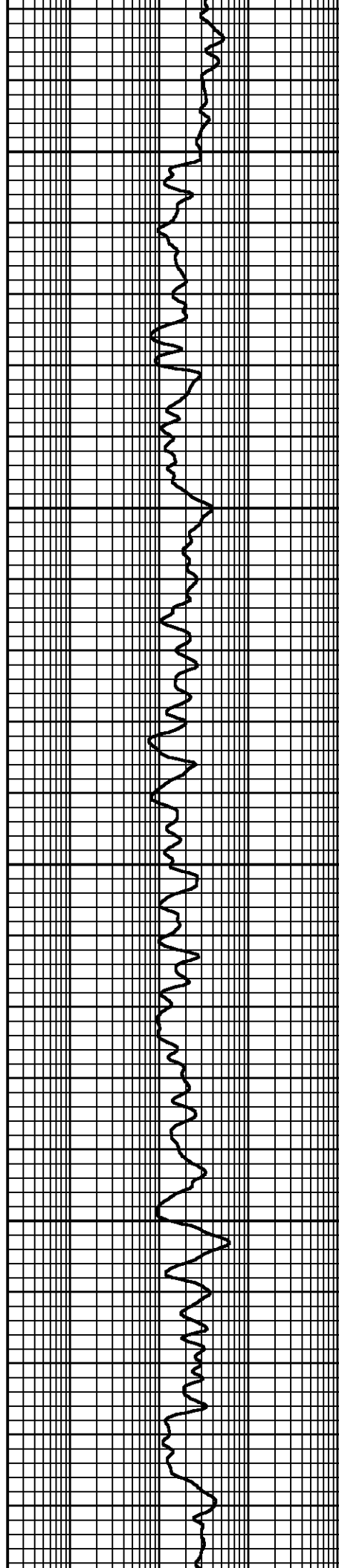
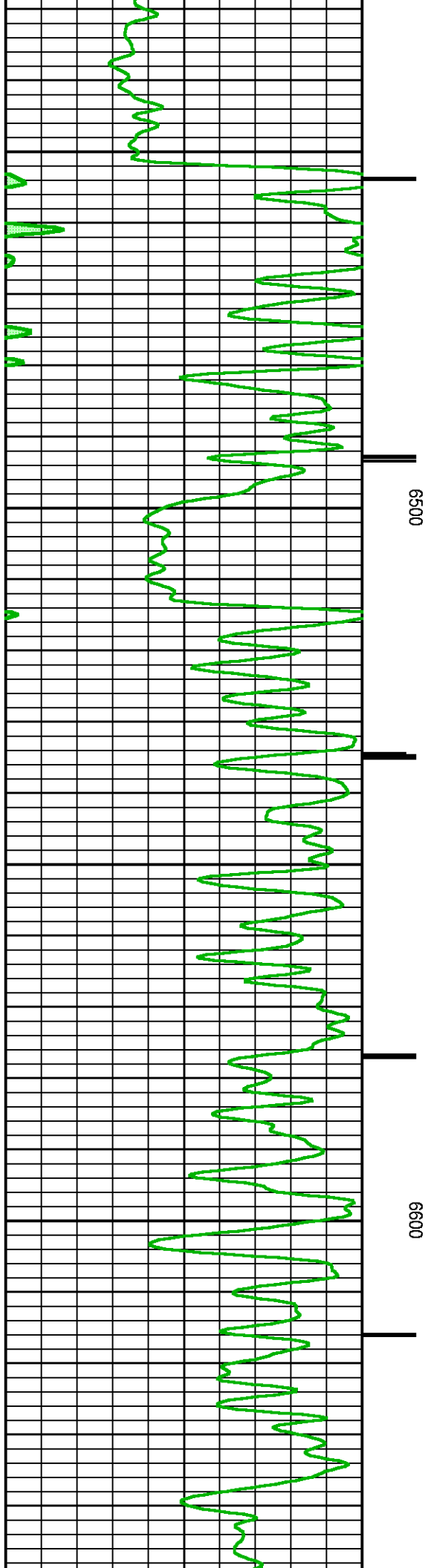


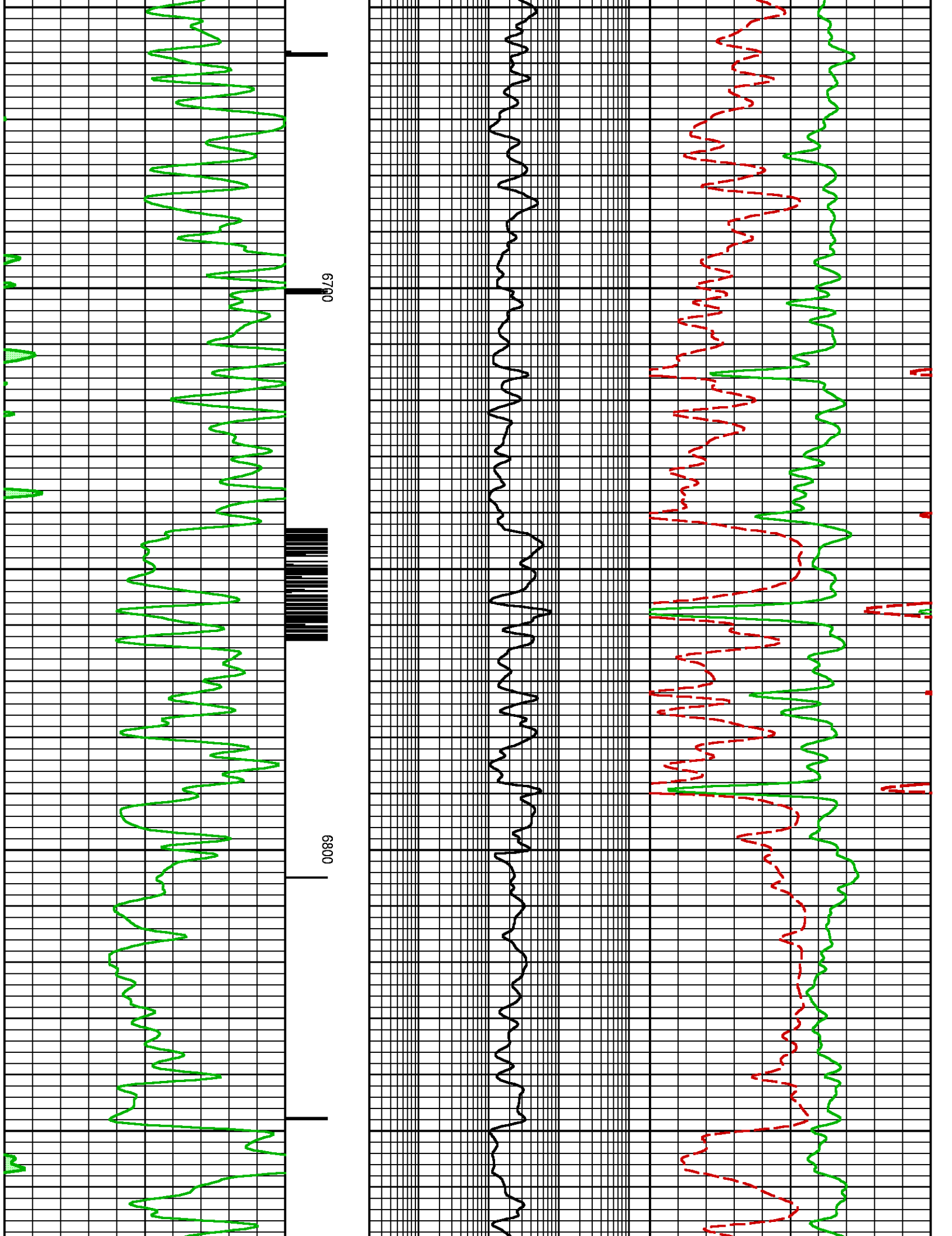


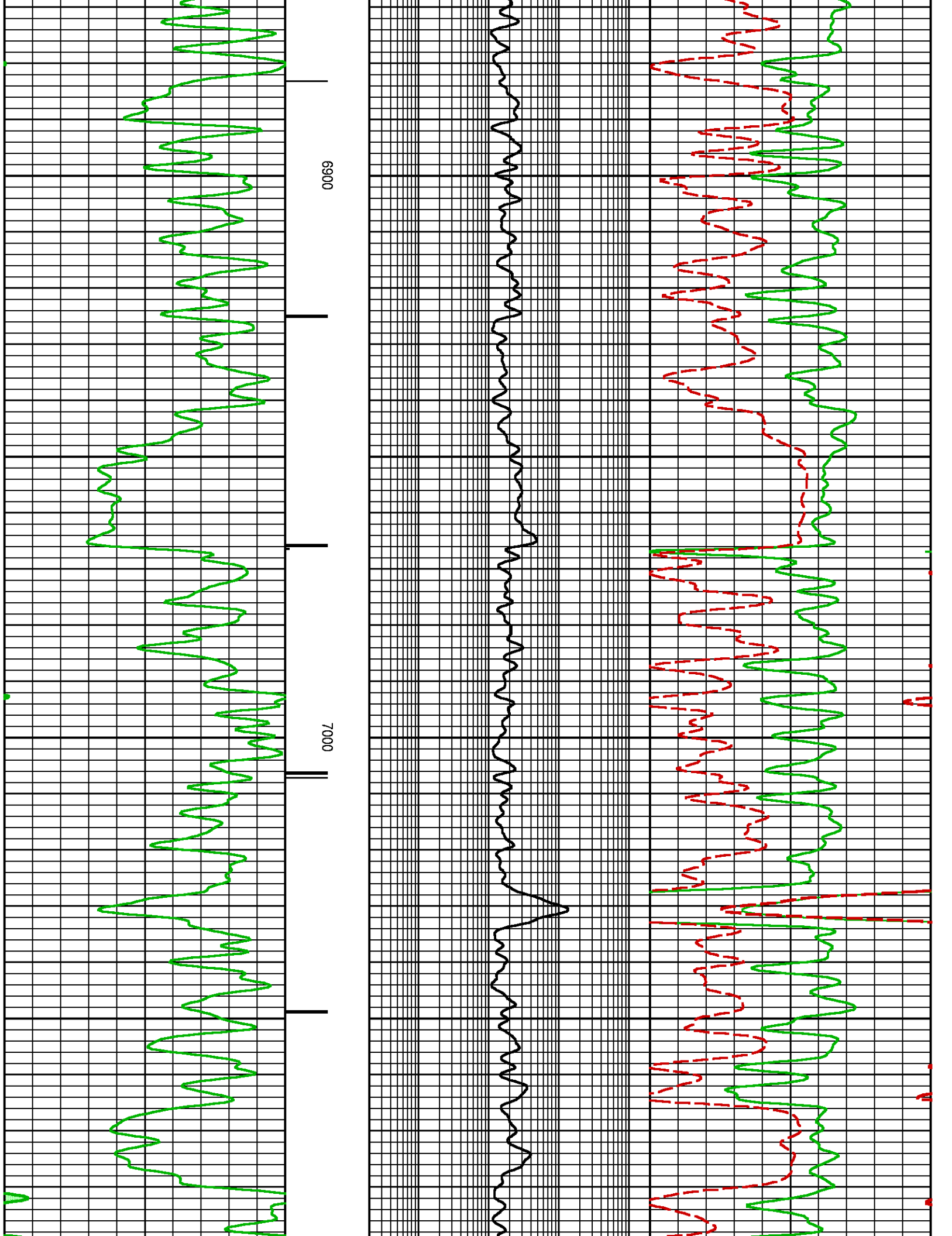


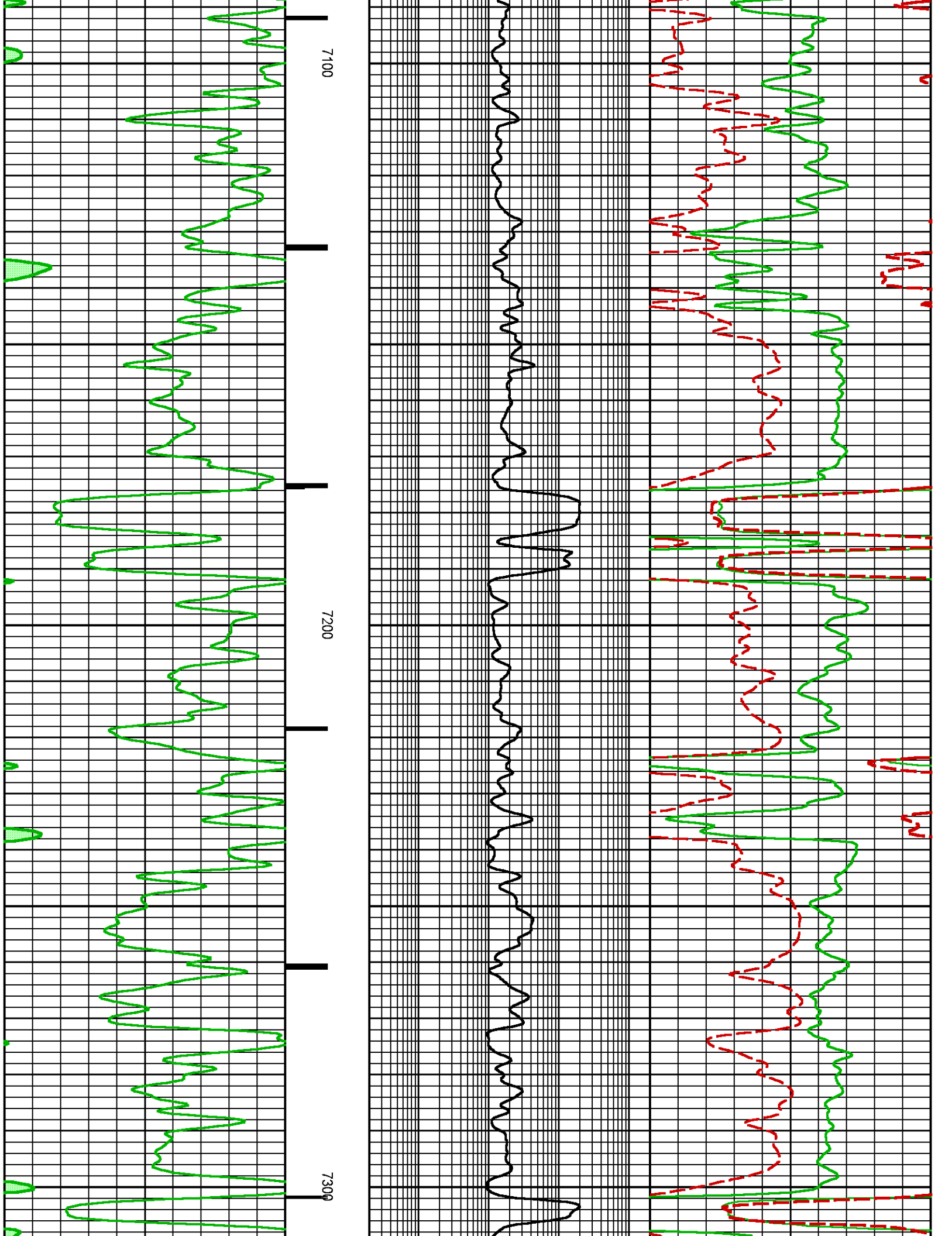


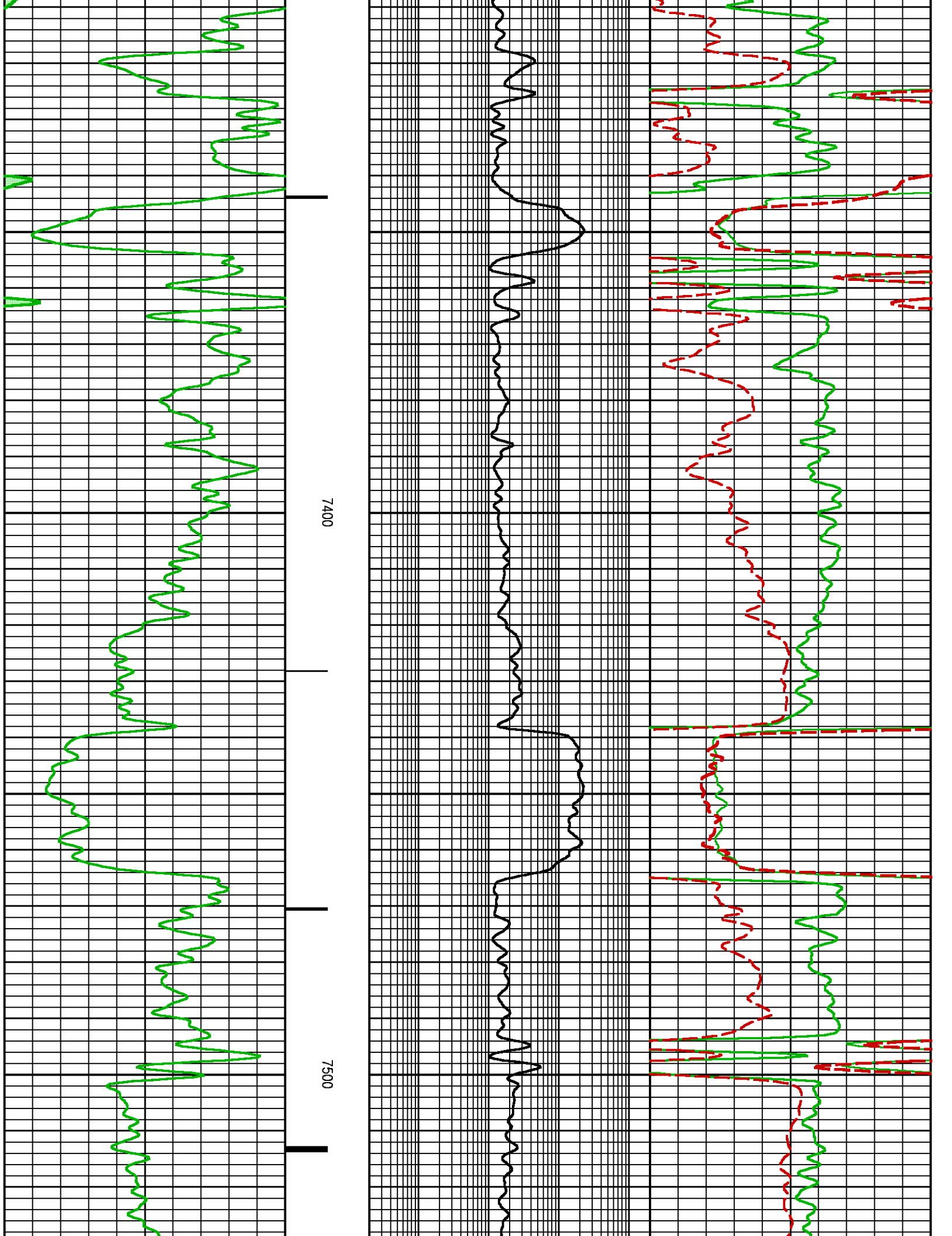


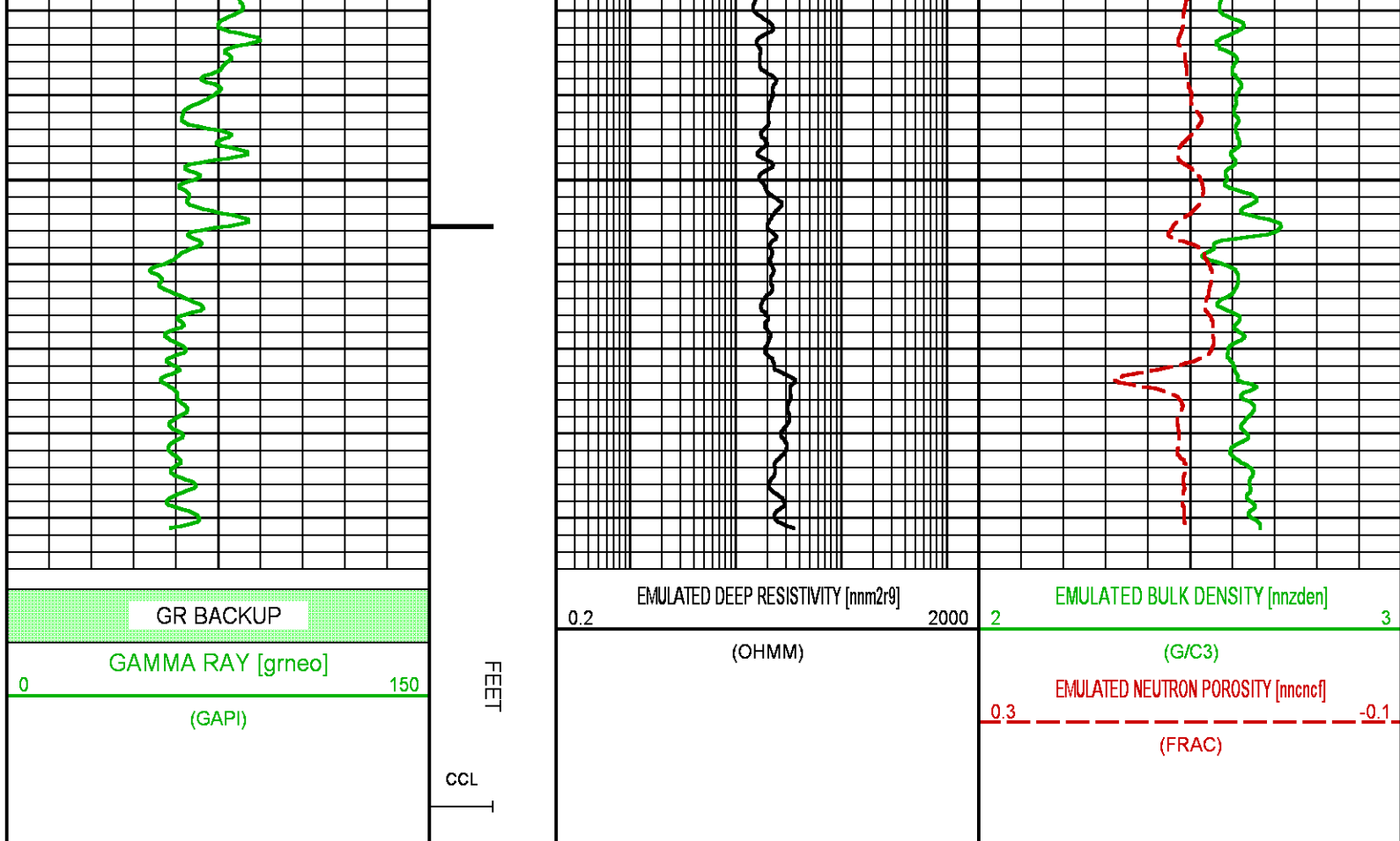












**BAKER  
HUGHES**  
a GE company



**COMPANY**  
**WELL**  
**FIELD**  
**COUNTY**

**LARAMIE ENERGY II LLC**  
**BCU 0993-21-10W**  
**BUZZARD CREEK**  
**MESA**

**STATE** **COLORADO**

**FILE NO:**

**API NO:**

**05077105210000**

**LOCATION:**

**SEE REMARKS SECTION**

**ELEVATIONS:**

**KB** **7287 FT**

**DF**

**GL** **7257 FT**

**SEC** **21** **TWP** **9S** **RGE** **93W**

**DATE**

**11-NOV-2018**

**Pulsed Neutron  
Formation Evaluation**

