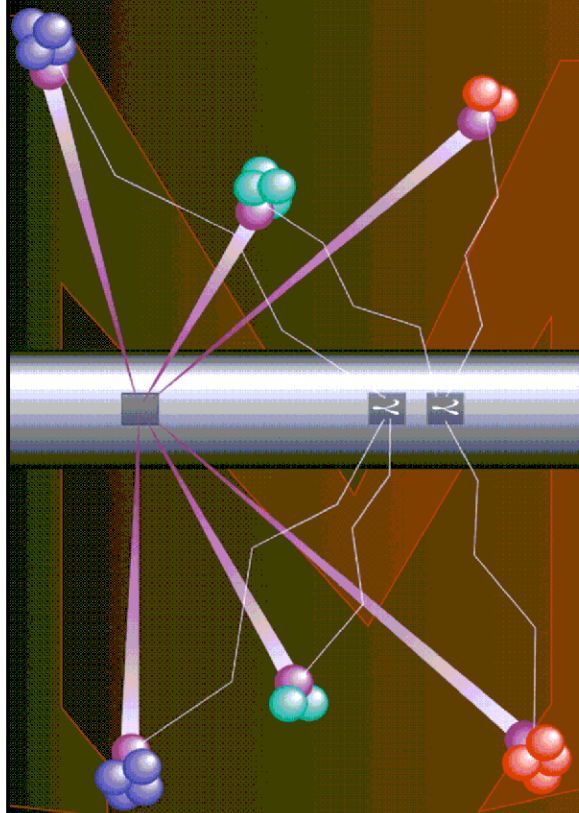


# Pulsed Neutron Formation Evaluation



**BAKER  
HUGHES**

## NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY II LLC

WELL CC 0697-03-16W

FIELD GRAND VALLEY

COUNTY GARFIELD STATE COLORADO

LOCATION:

SEE REMARKS SECTION

SEC 3 TWP 6S RGE 97W

ELEVATIONS:

KB 8458.0 FT DF GL 8428.0 FT

DATE 23-AUG-2018 ECC CALGARY GEOSCIENCE

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>30-AUG-2018</u>
FIELD DATA	LOCATION: <u>GRAND JCT.</u>	ENGINEER: <u>M.BAUKA/US140257J</u>	DATE: <u>23-AUG-2018</u>
FROM	TO		
<u>4540 FT</u>	<u>9699 FT</u>		

### REMARKS

LOCATION:  
SHL: 3349.0' FSL & 1320.0' FWL  
BHL: 3349.0' FSL & 1320.0' FWL

TRAINING WELL: CC 0697-03-17W  
TNPH - NEUTRON POROSITY  
TBIT90 - DEEP RESITIVITY  
NNZDEN - BULK DENSITY EMULATED USING GUNDERSON 0994-13-06W AS  
TRAINING WELL.

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

OPEN HOLE LOG IS DEPTH REFERENCE LOG

ANALYST: ALEXANDR KOTOV

## NEO RESULTS FOR CC 0697-03-16W (G-SAND)

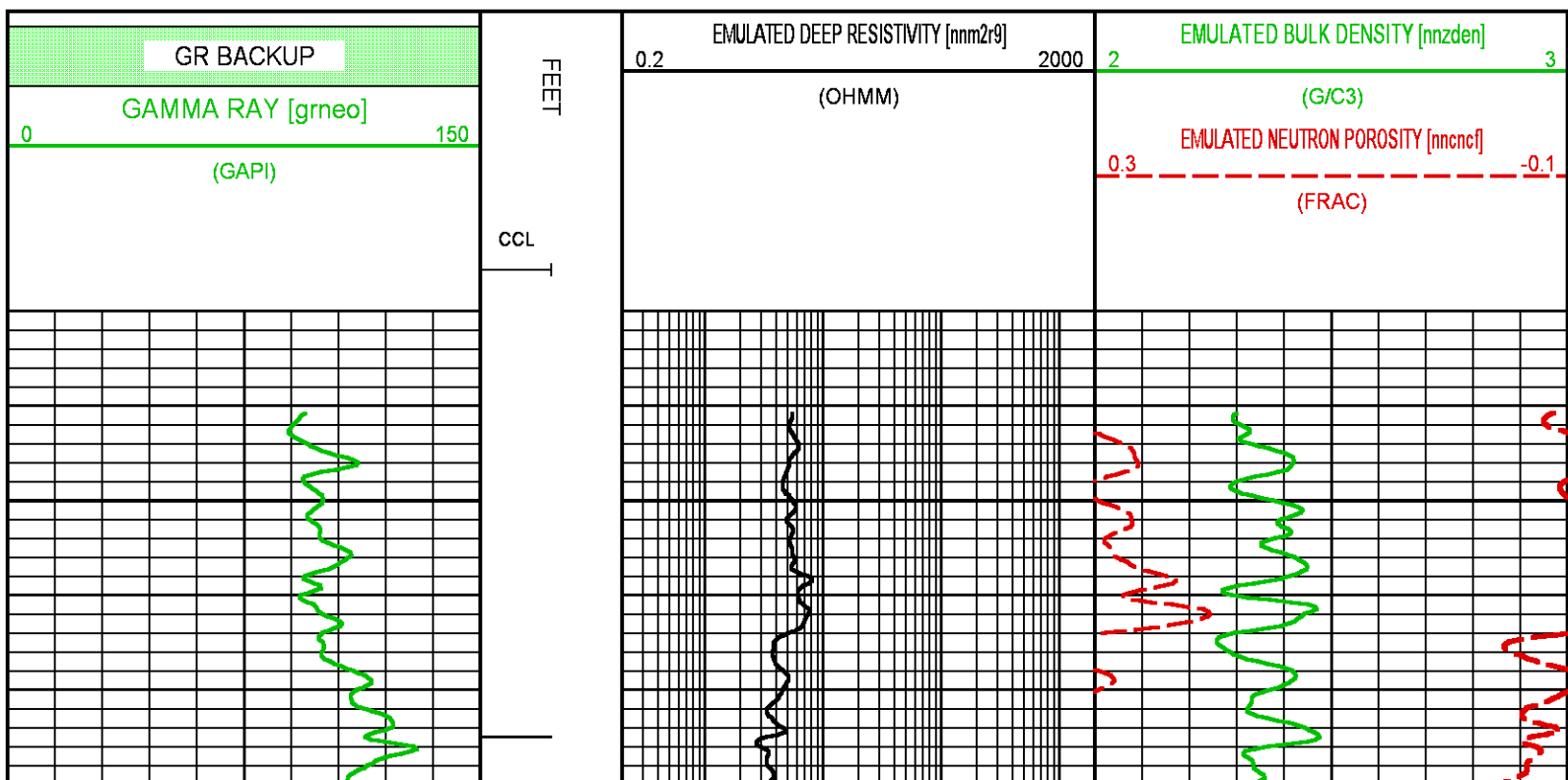
ECLIPS ECPLLOT from ECLIPS 7.0 WFM 6.0.7905.1 Wed 08/23/2017 09:02:35.01

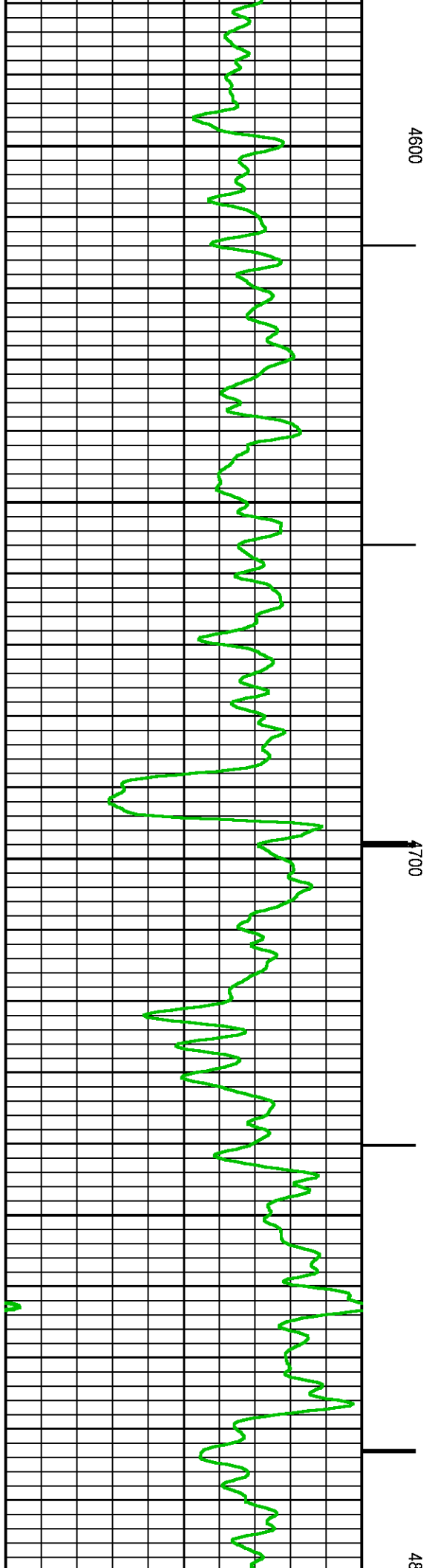
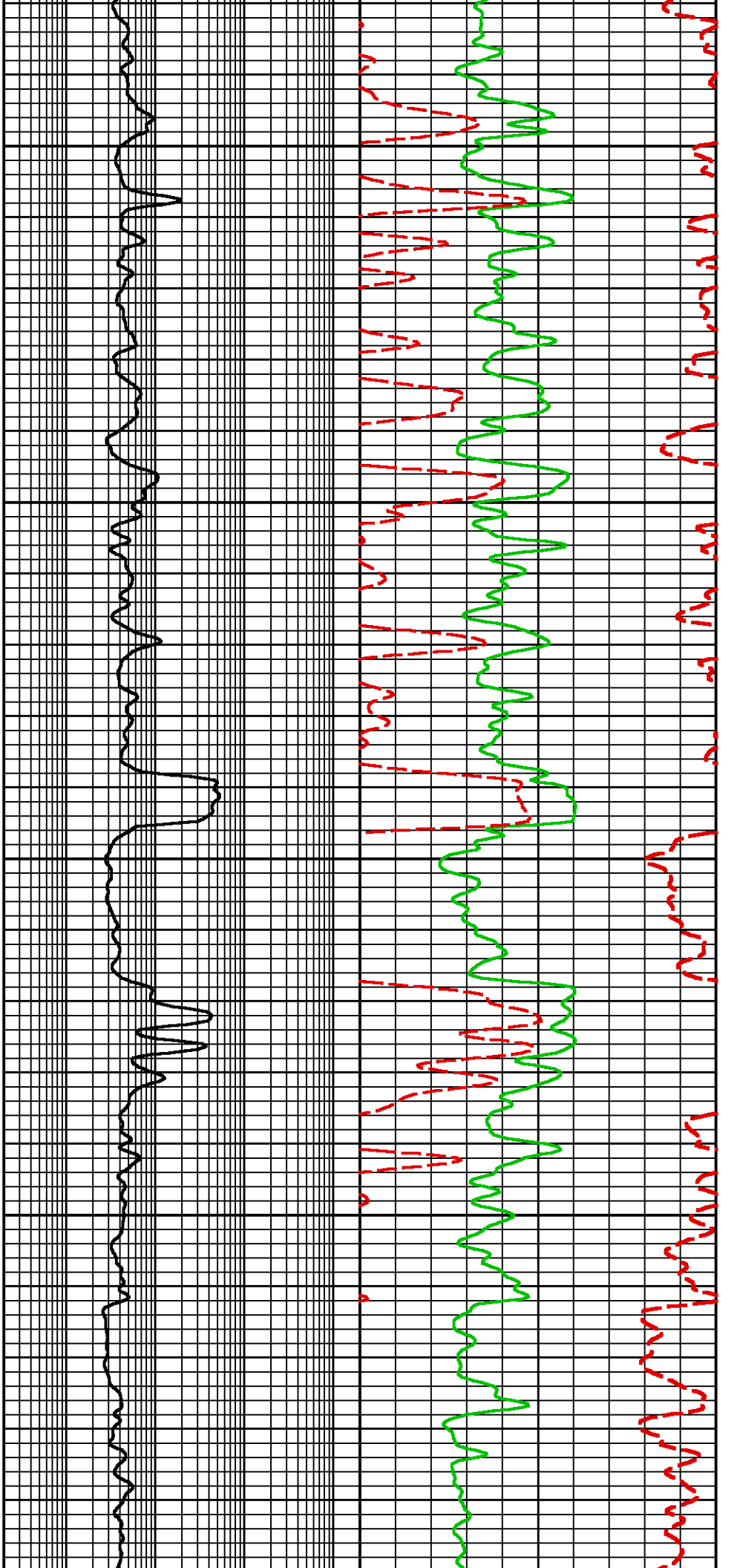
Plotted: Thu Aug 30 08:05:19 2018

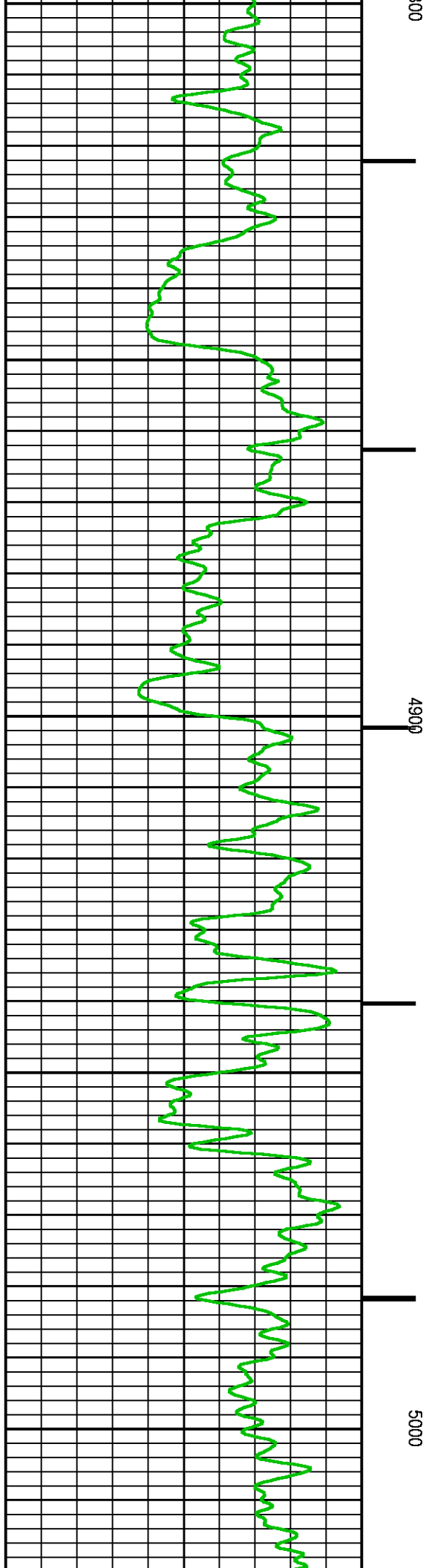
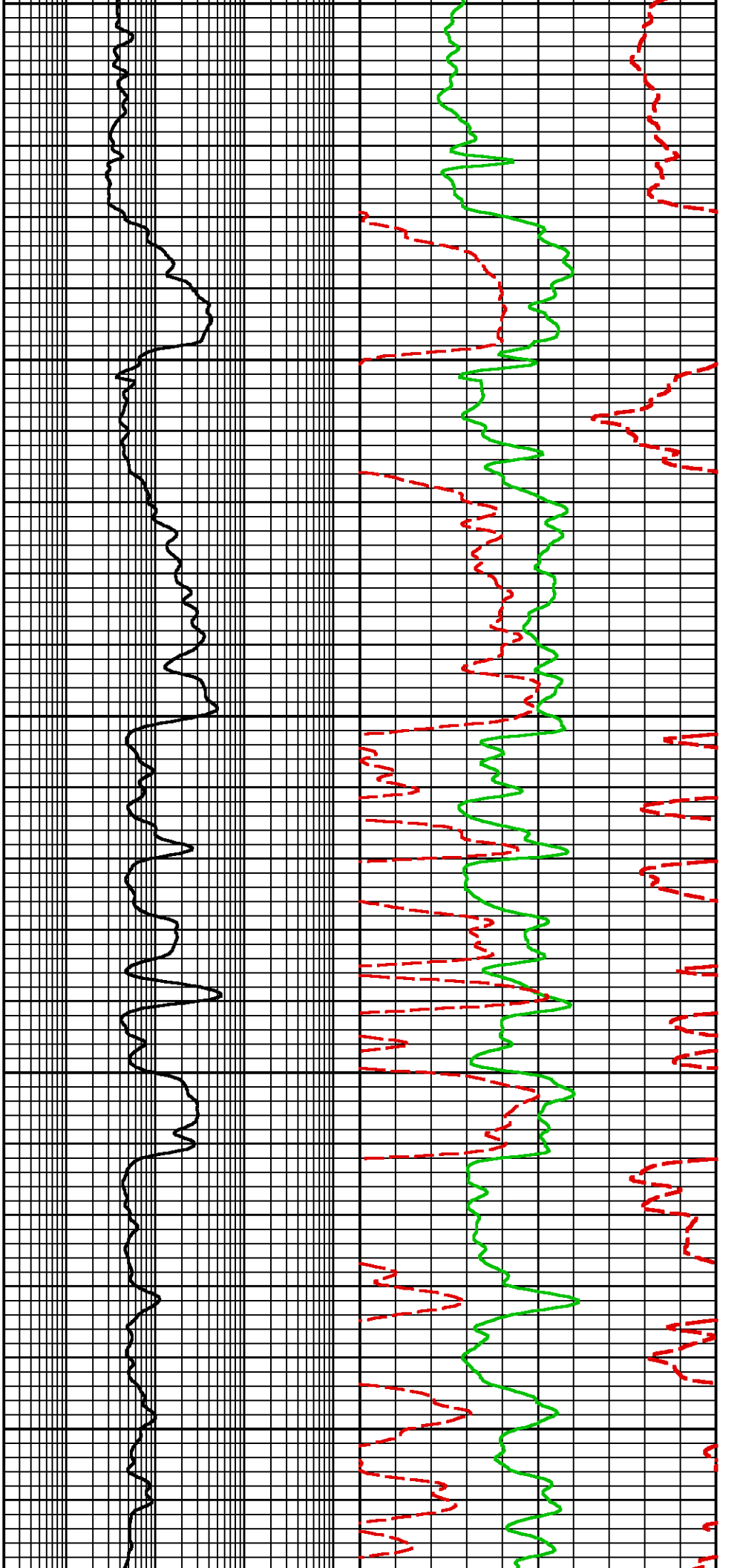
### CURVE MEASURE POINT OFFSET

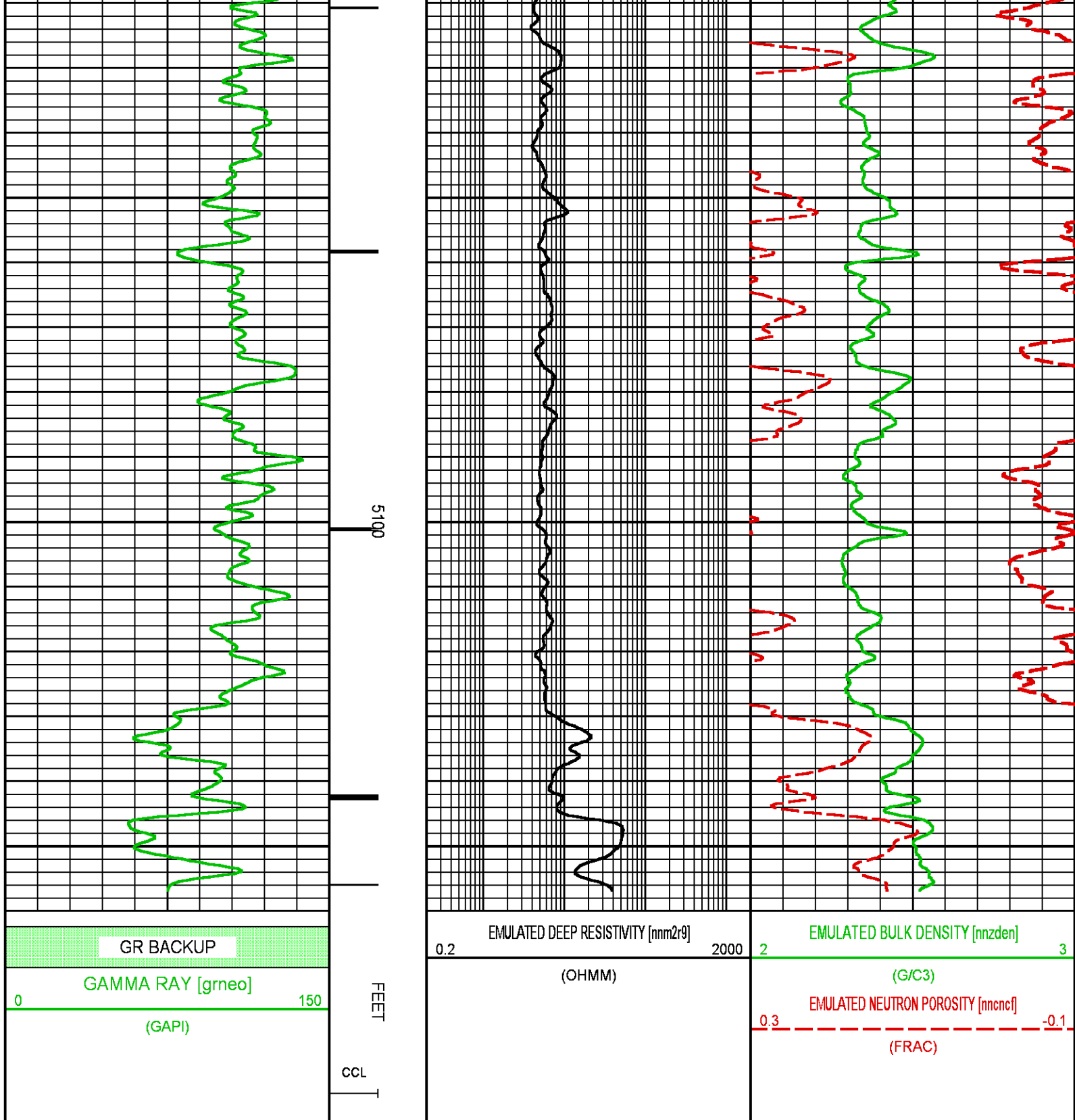
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNCf	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

**Project** : NA  
**User** : kotoale  
**Presentation** : BHI1F65XZ1:d:\Ape\_Projects\LARAMIE\_CC\_0697\_03\_16W\_NEO\NEO\_PRESENTATION\_LARAMIE\_G-Sand.pdf [5"/100' Scale]  
**Plot Interval** : 4530 - 5160 Feet  
**Data File 1** : F1 : BHI1F65XZ1:D:\Ape\_Projects\LARAMIE\_CC\_0697\_03\_16W\_NEO\Merged\_Set\_Final.xtf  
**Created On** : N/A  
**Company** : LARAMIE ENERGY LLC  
**Well** : CC 0697-03-16W  
**Field** : GRAND VALLEY  
**File Interval** : 4540.75 - 9699.75 Feet  
**OCT** : NA







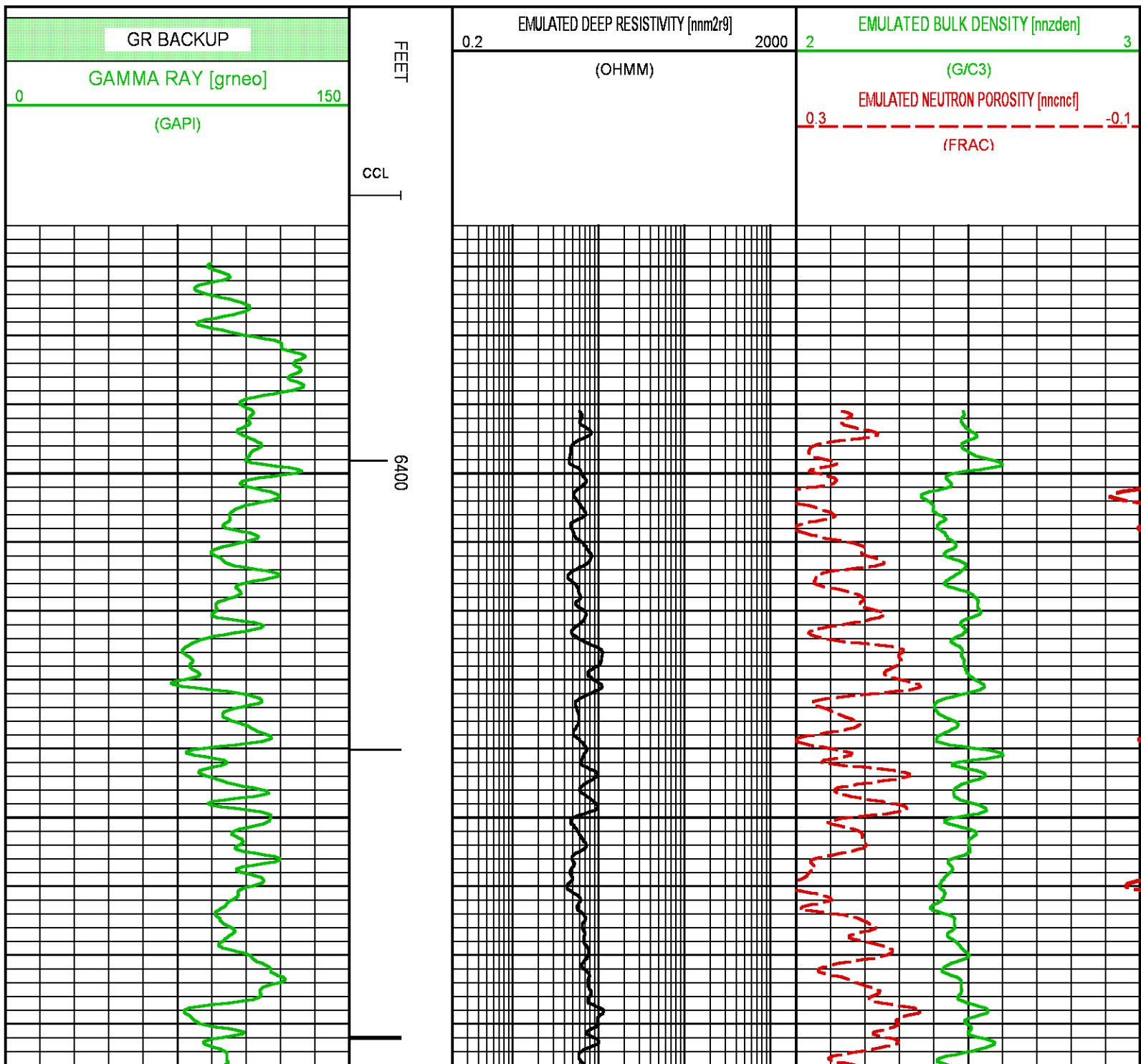


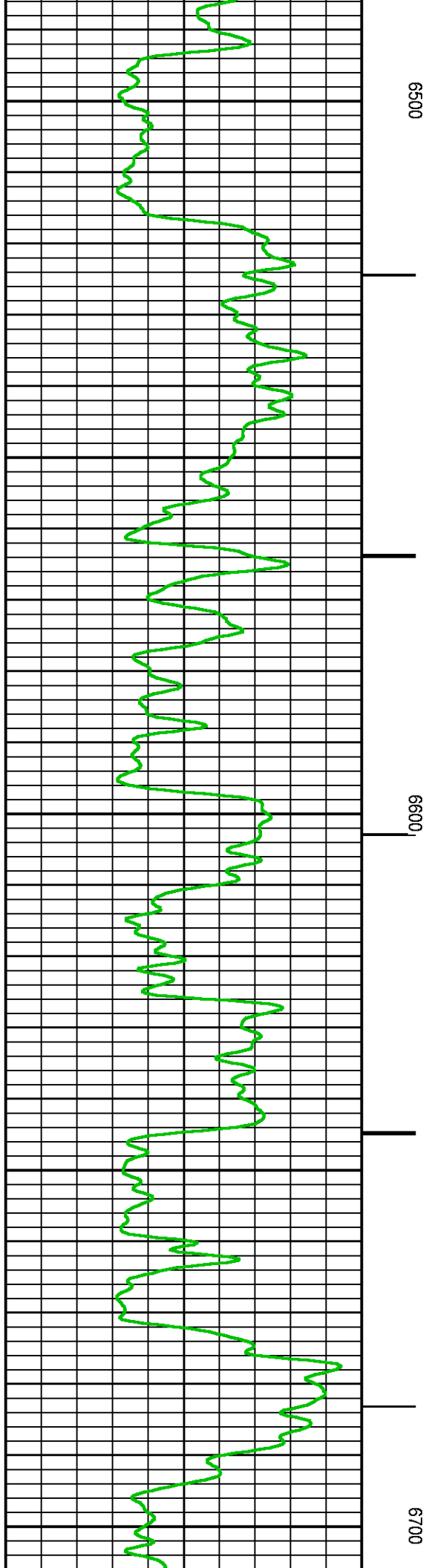
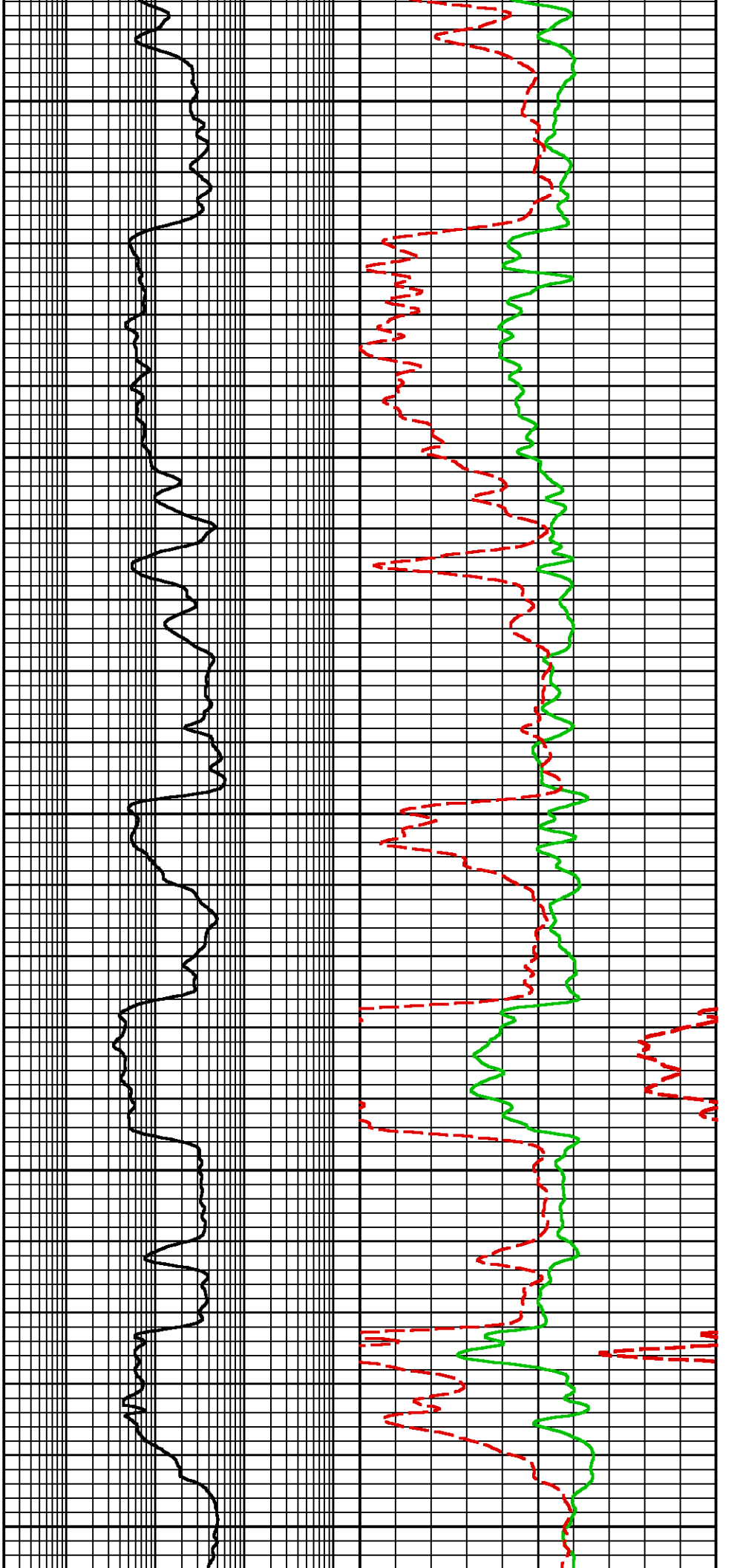
## NEO RESULTS FOR CC 0697-03-16W (MAIN)

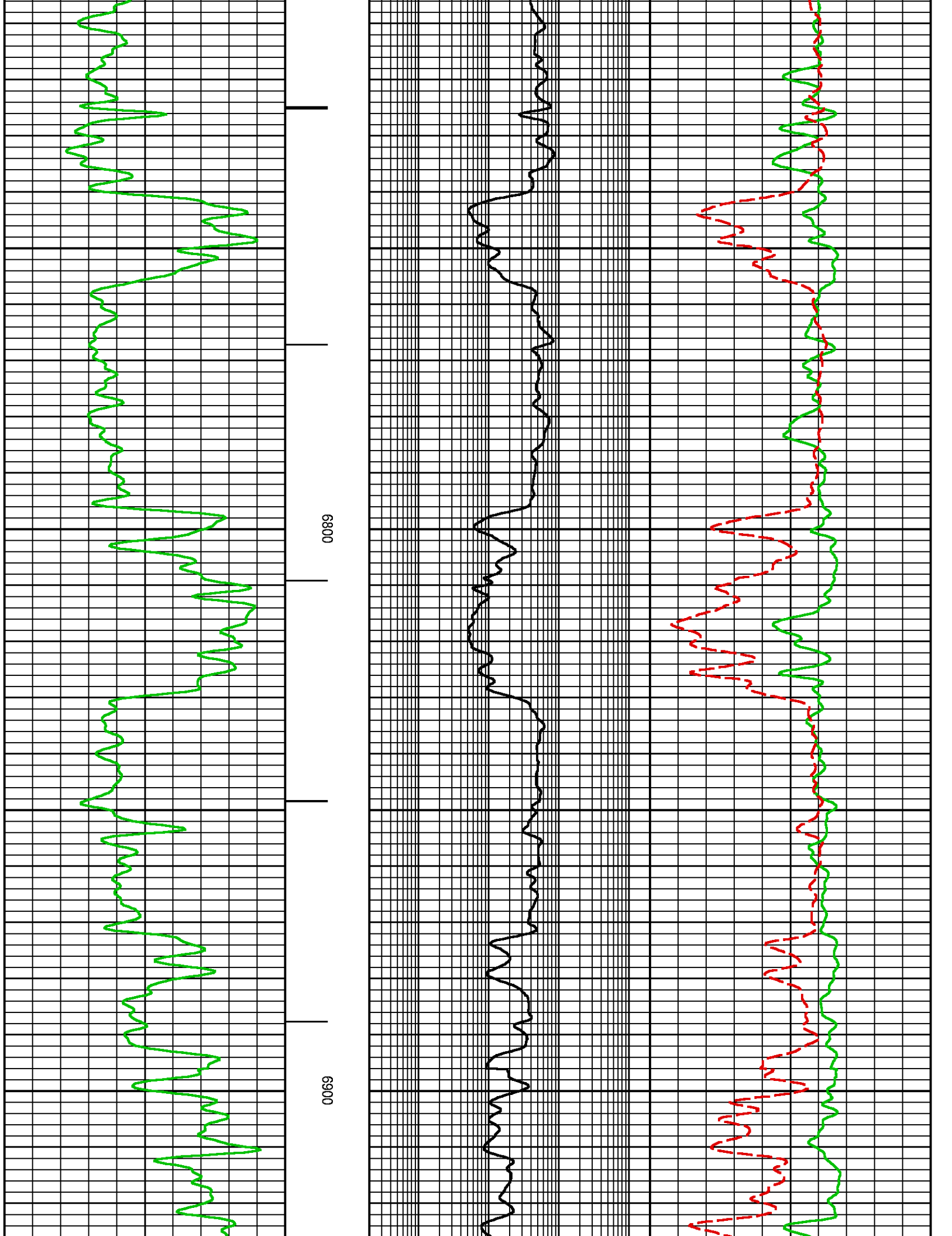
# CURVE MEASURE POINT OFFSET

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				

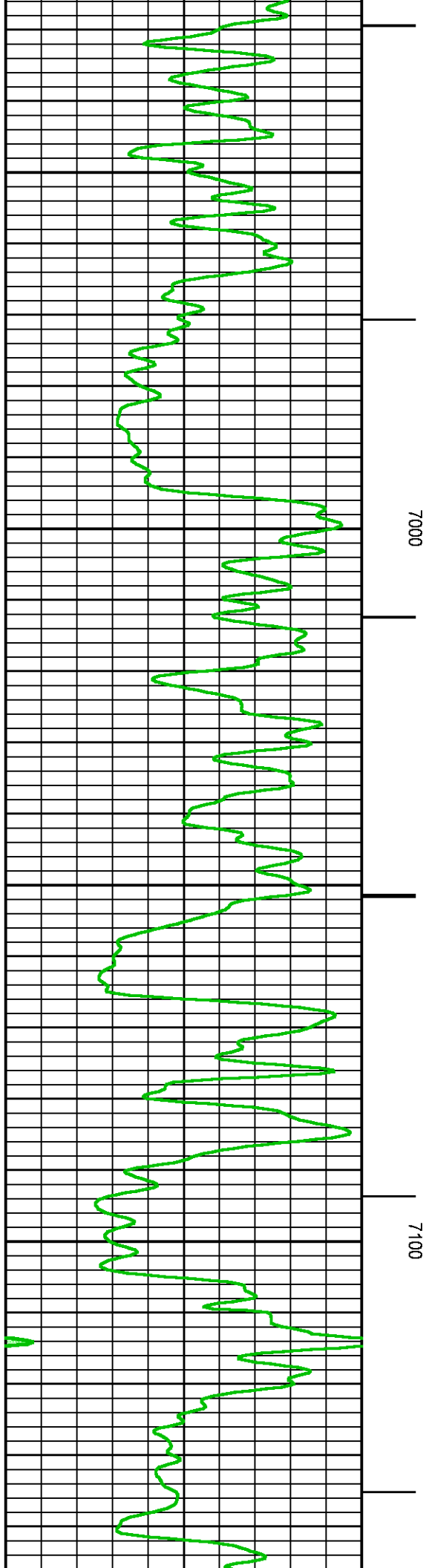
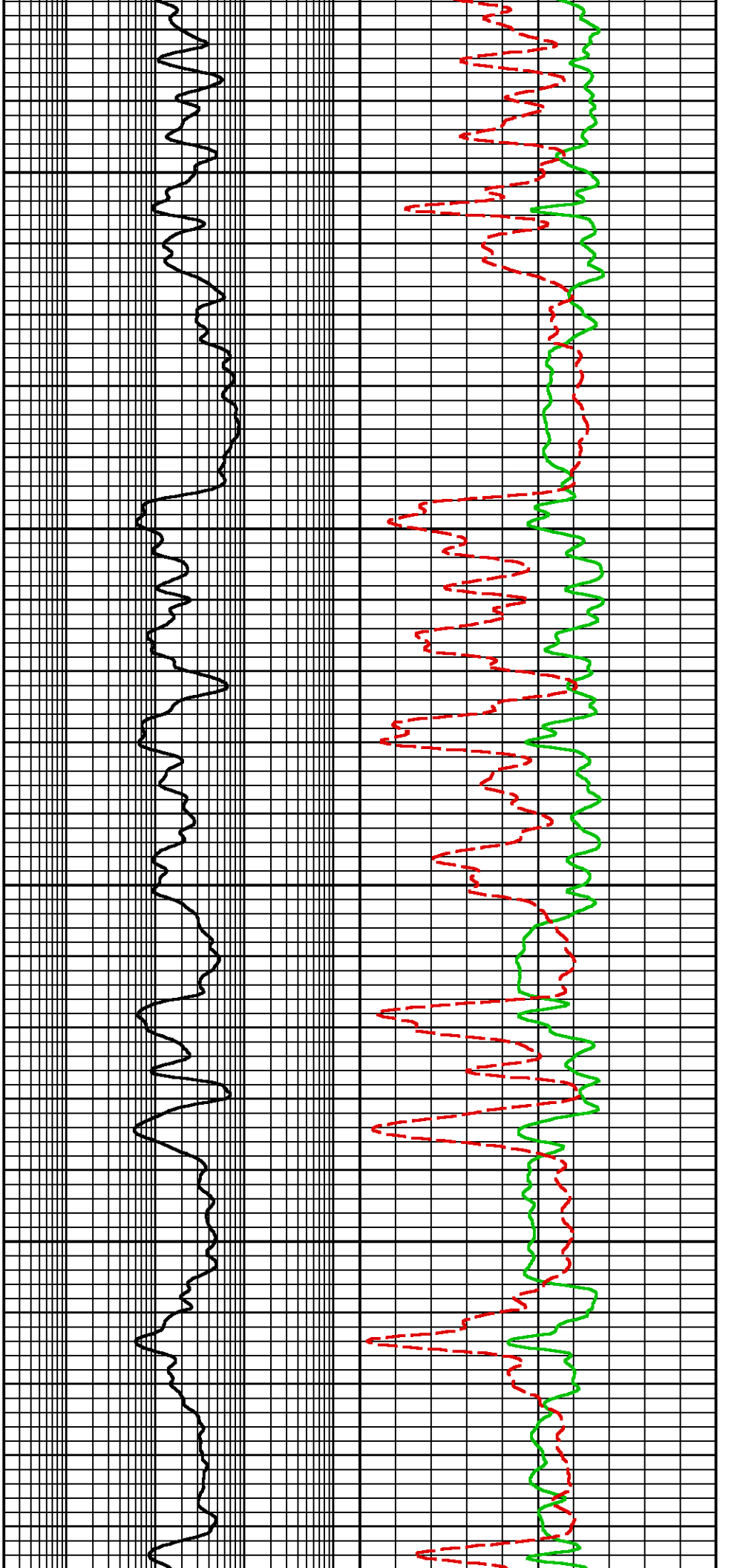
**Project** : NA  
**User** : kotoale  
**Presentation** : BHI1F65XZ1:d:\Ape\_Projects\LARAMIE\_CC\_0697\_03\_16W\_NEO\NEO\_PRESENTATION\_LARAMIE\_MAIN.pdf [5"/100" Scale]  
**Plot Interval** : 6364 - 9704 Feet  
  
**Data File 1** : F1 : BHI1F65XZ1:D:\Ape\_Projects\LARAMIE\_CC\_0697\_03\_16W\_NEO\Merged\_Set\_Final.txtf  
**Created On** : N/A  
**Company** : LARAMIE ENERGY LLC  
**Well** : CC 0697-03-16W  
**Field** : GRAND VALLEY  
**File Interval** : 4540.75 - 9699.75 Feet  
**OCT** : NA

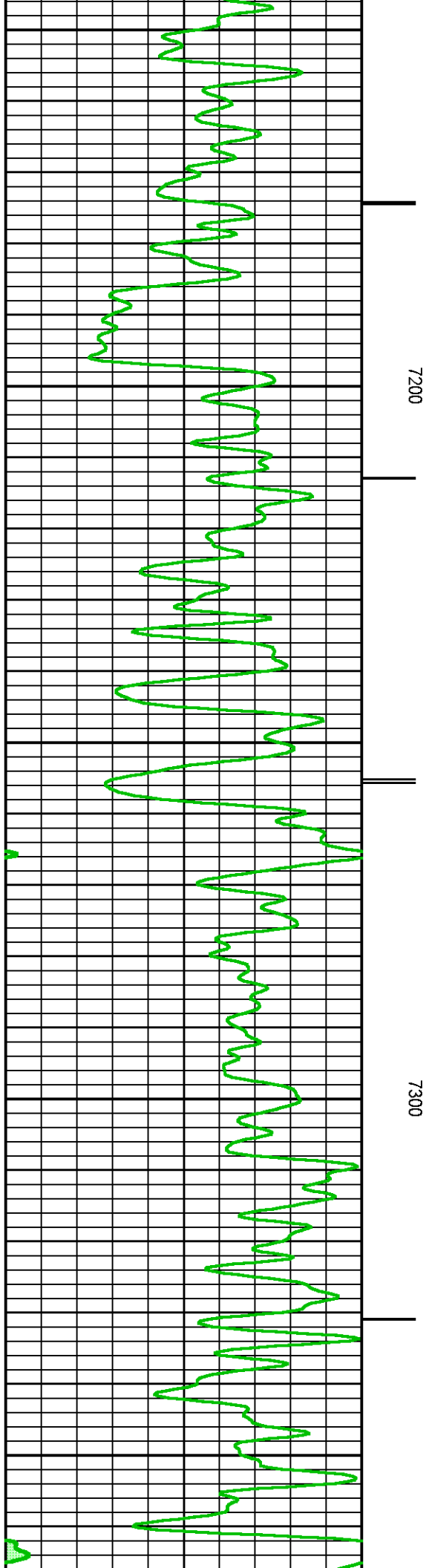
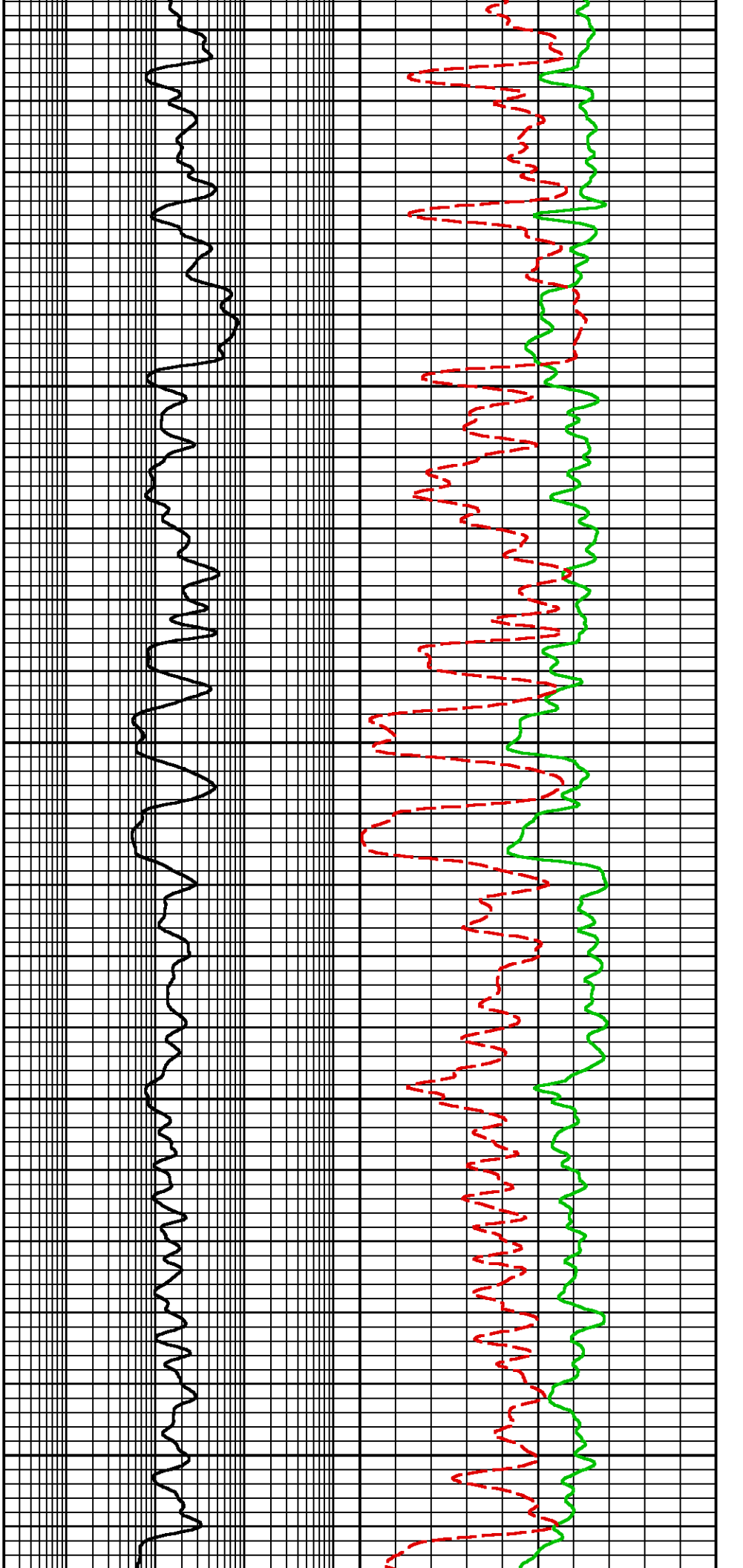


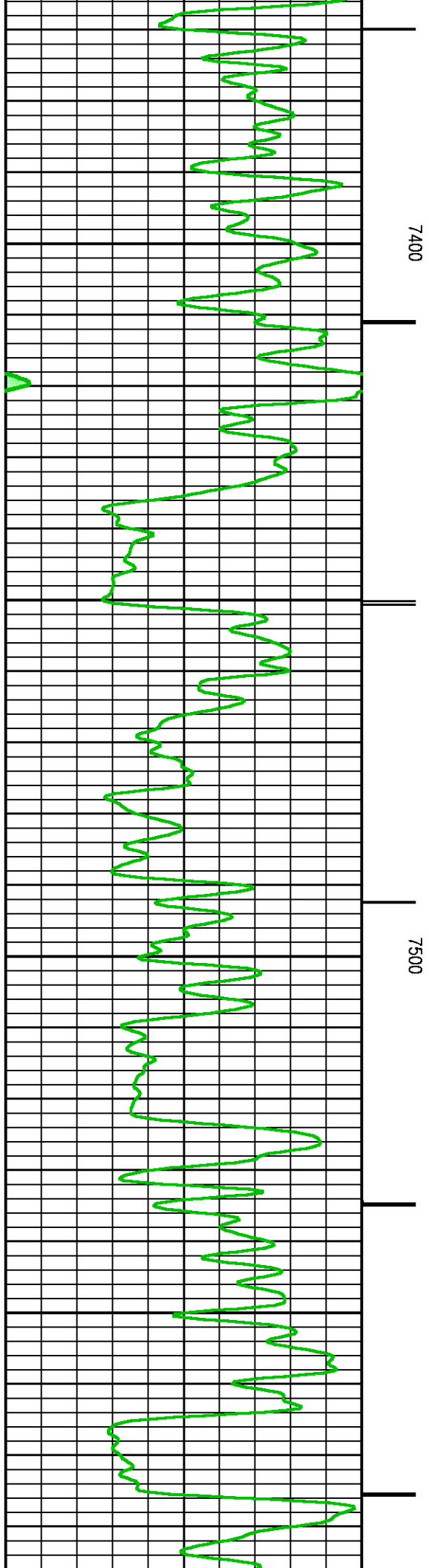
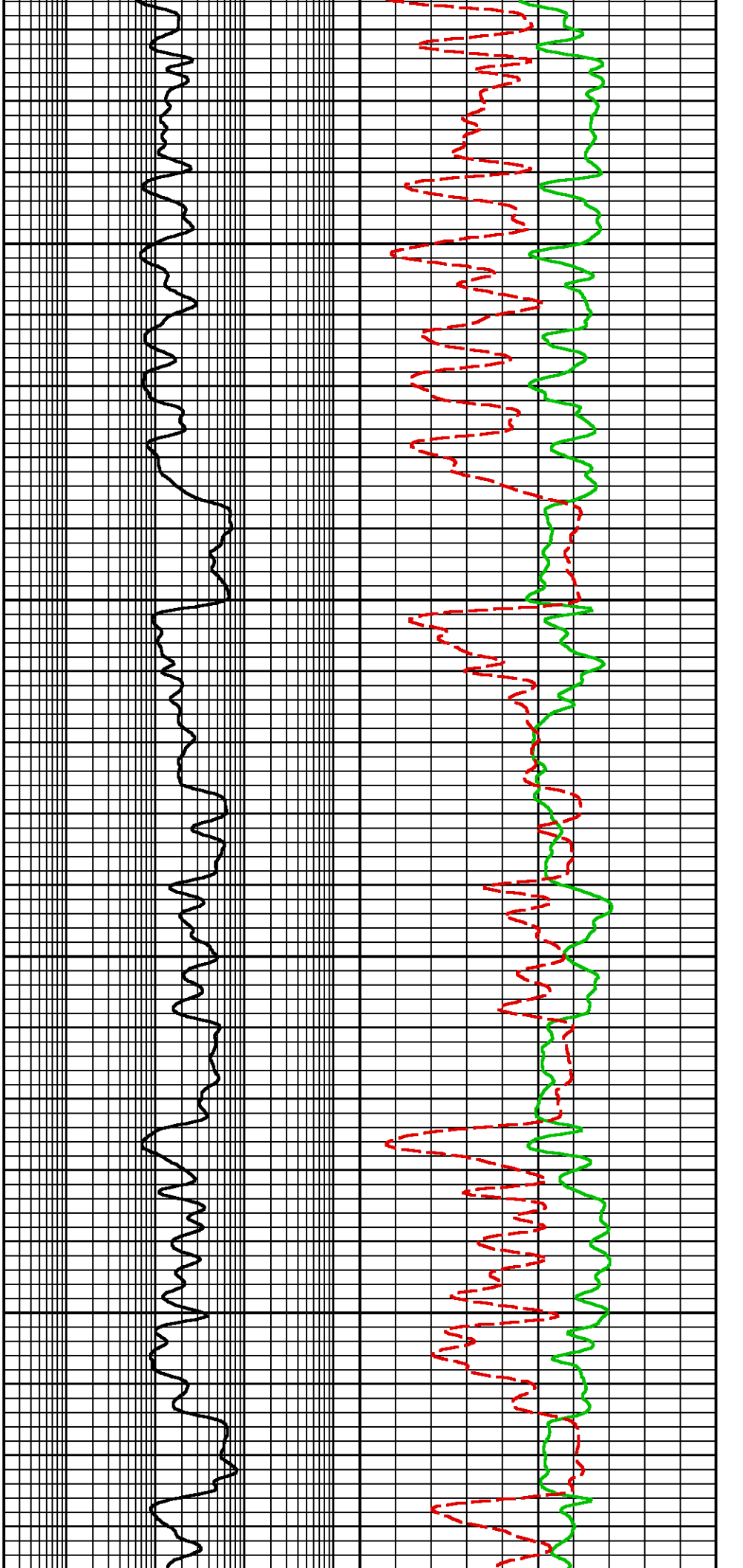


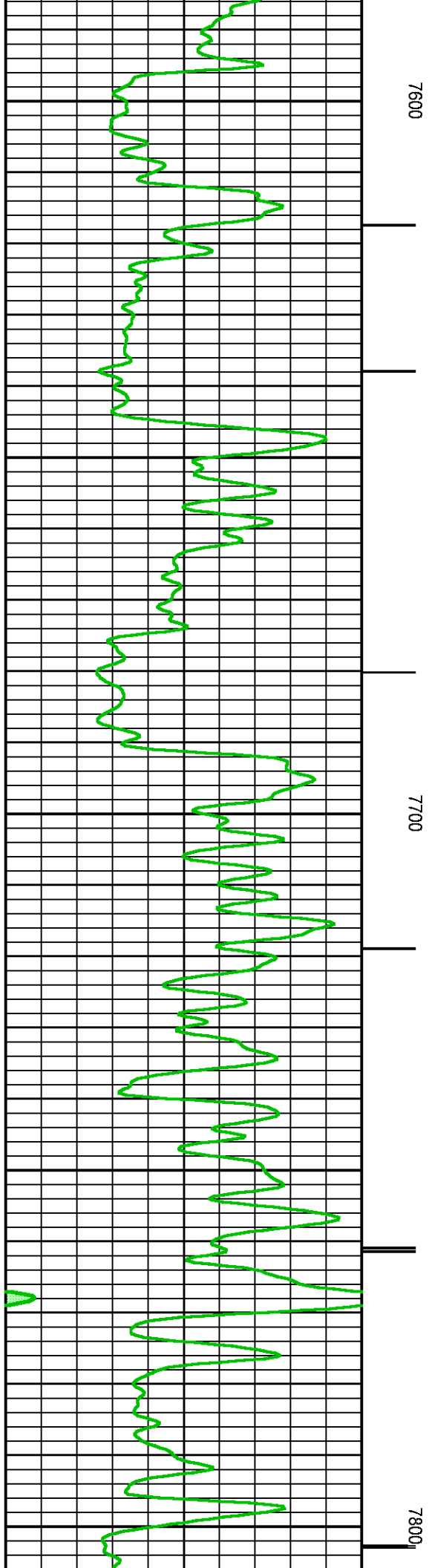
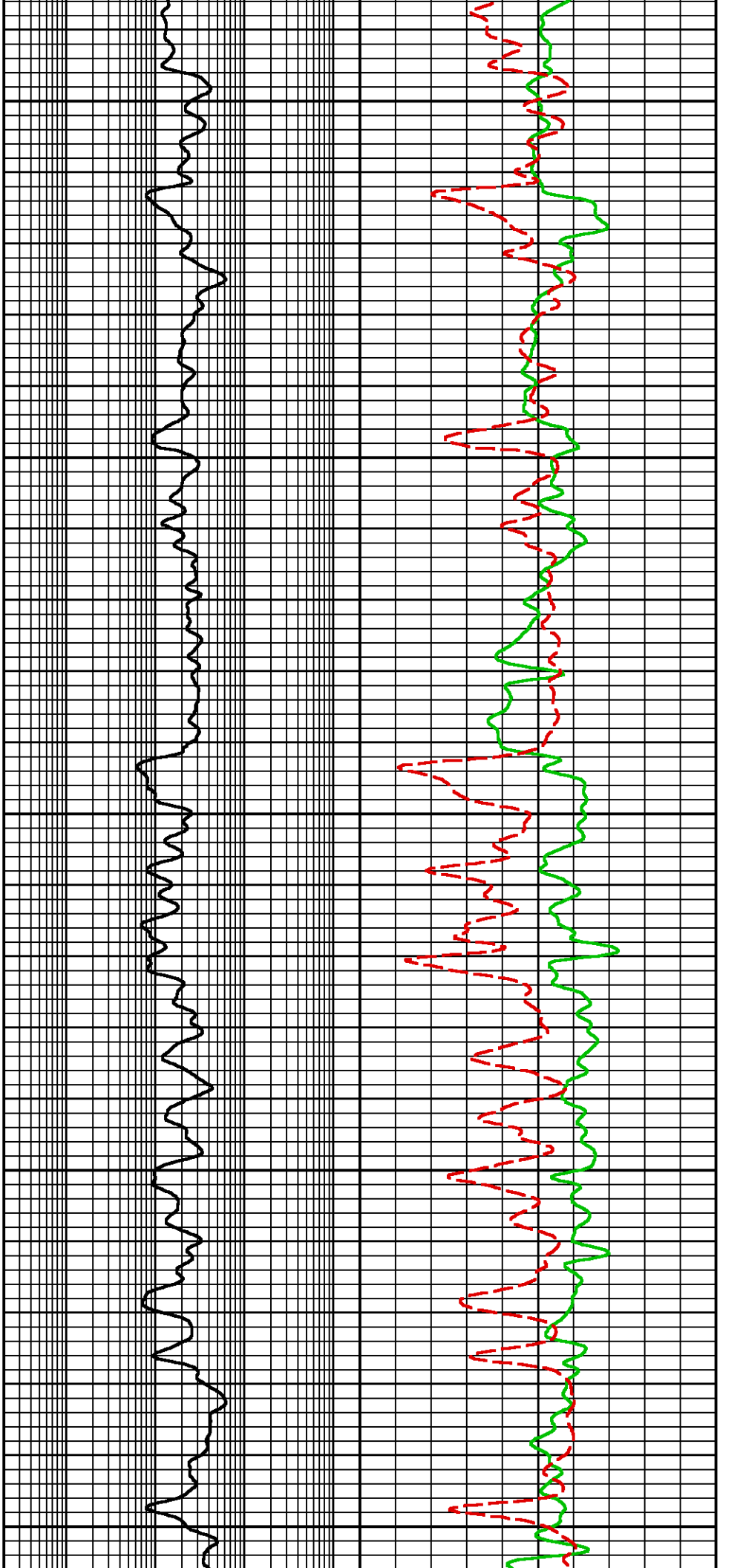


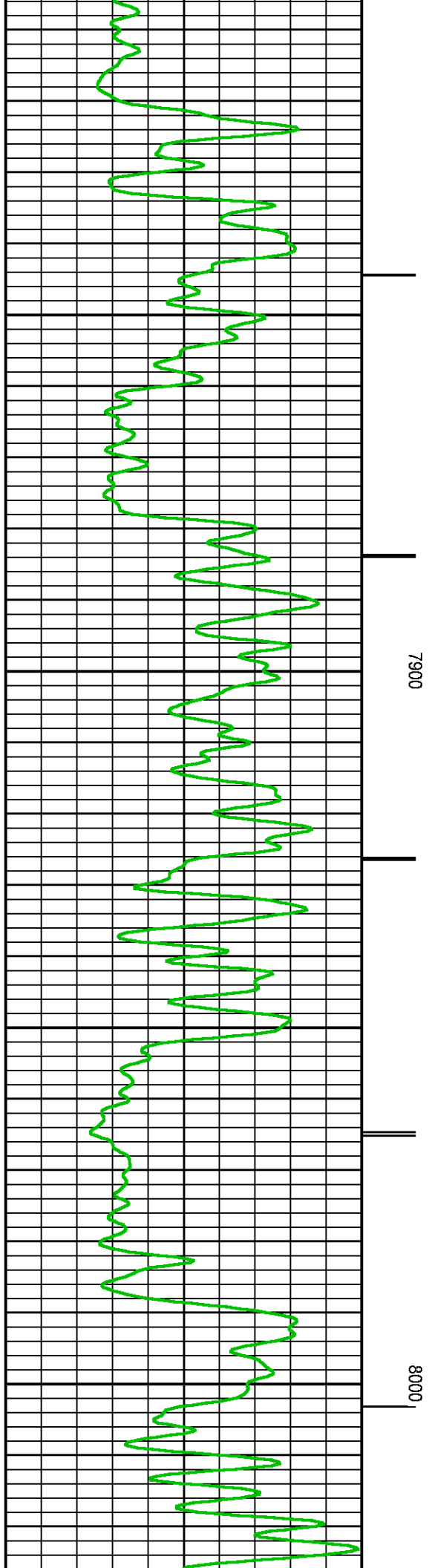
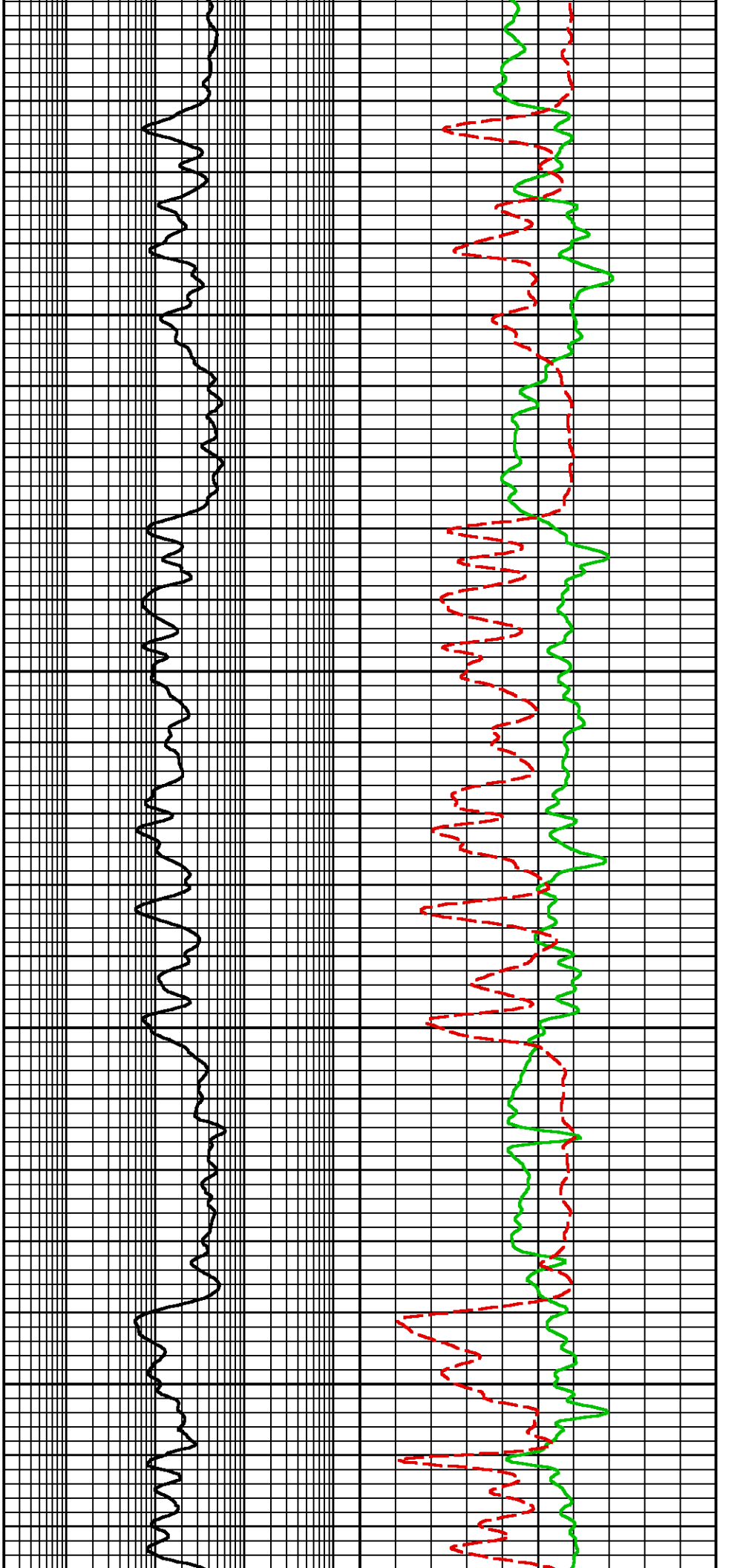


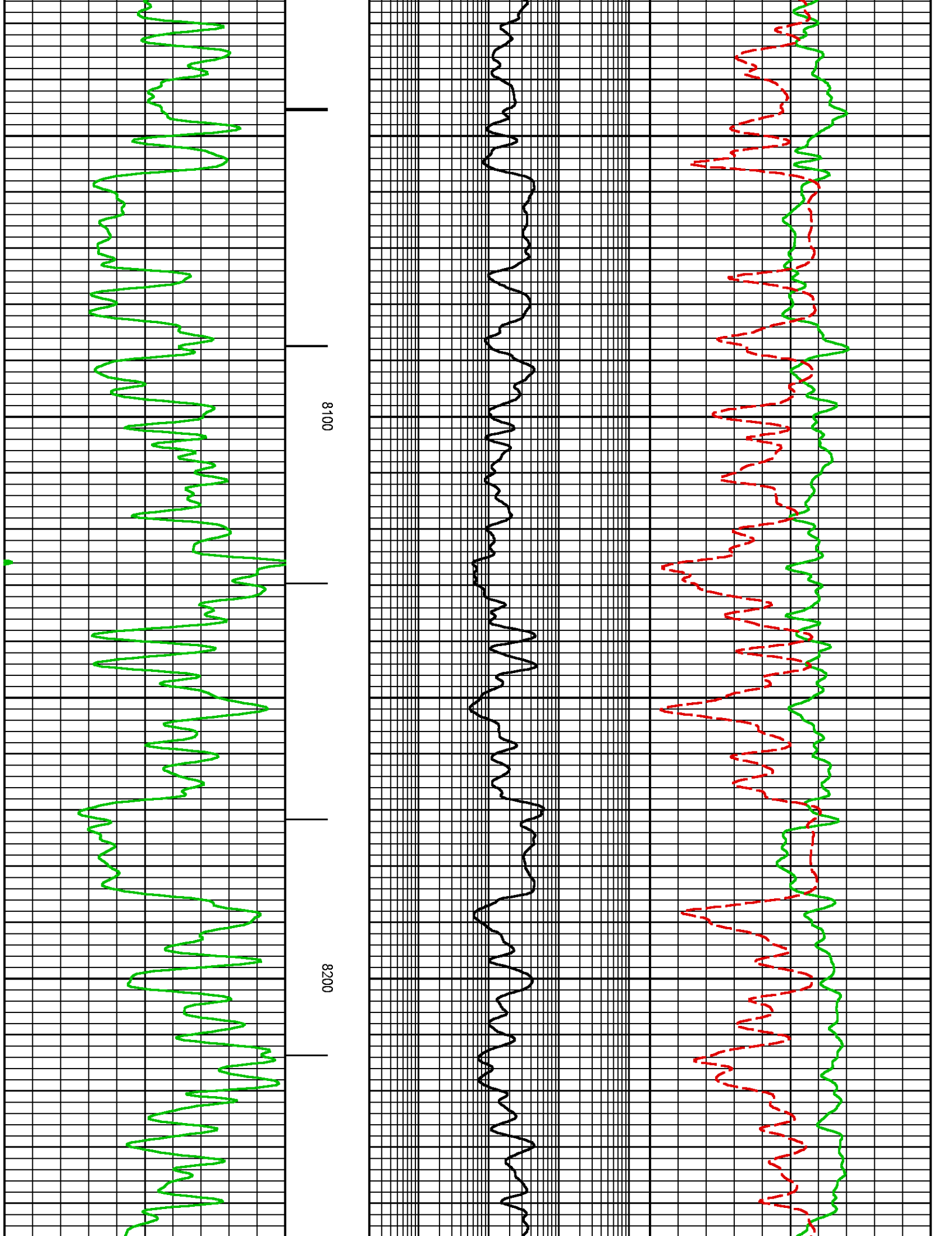


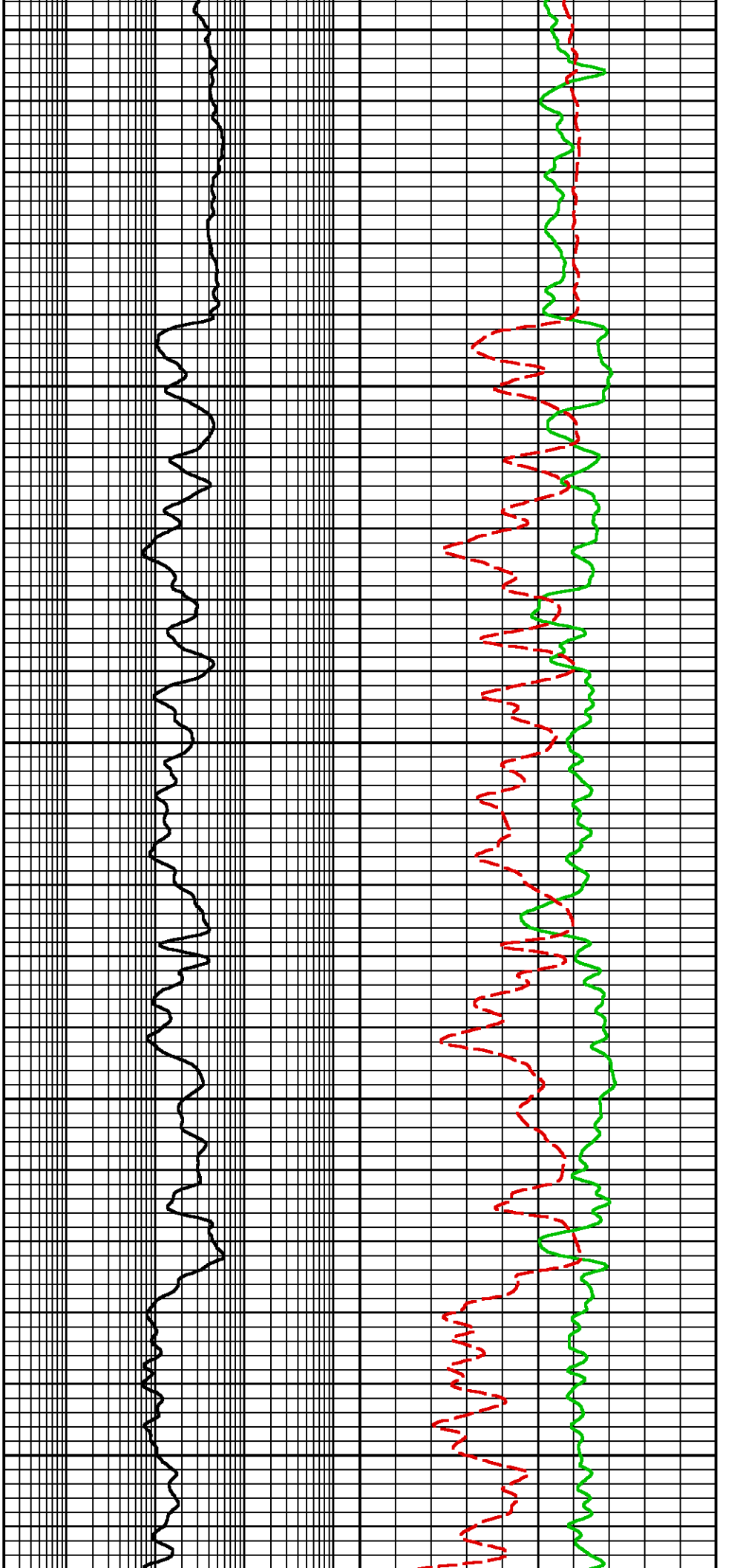






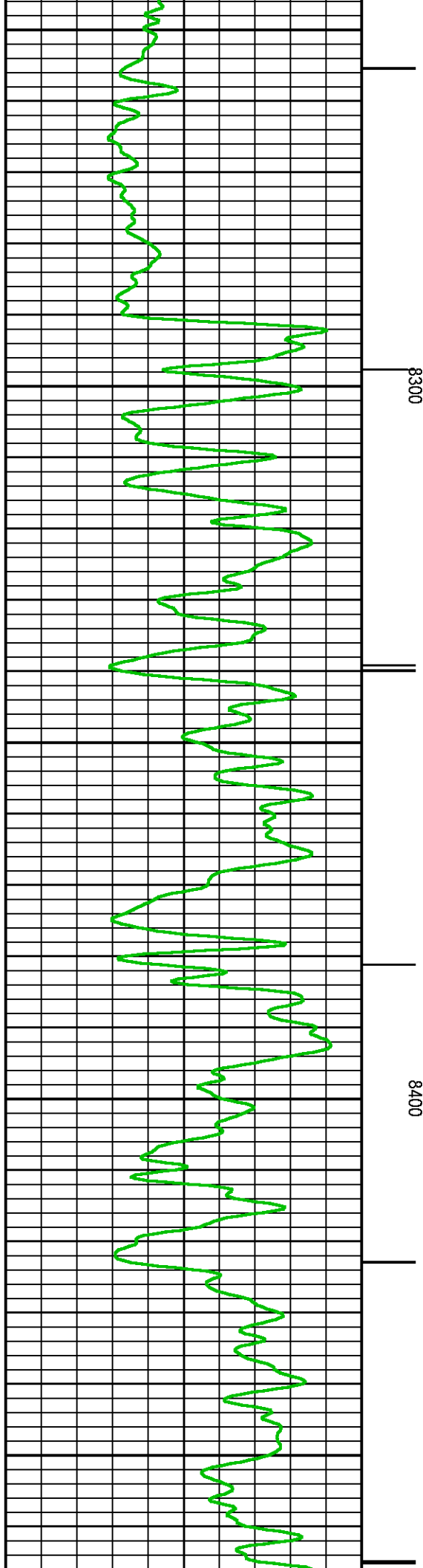


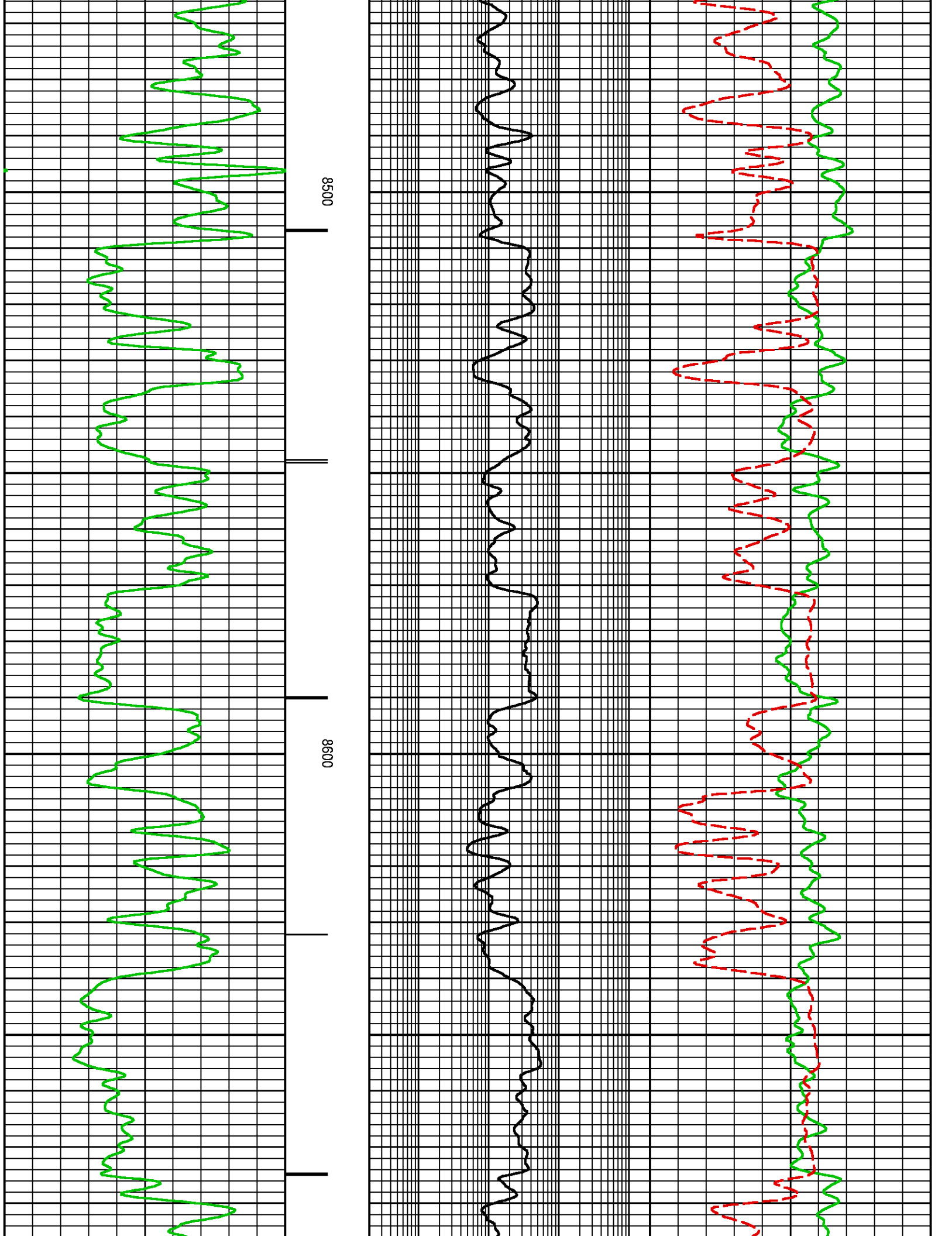




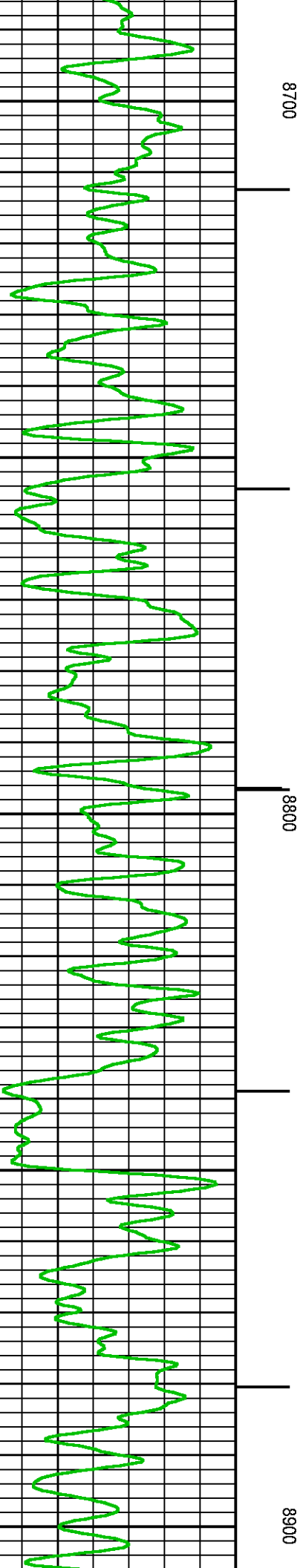
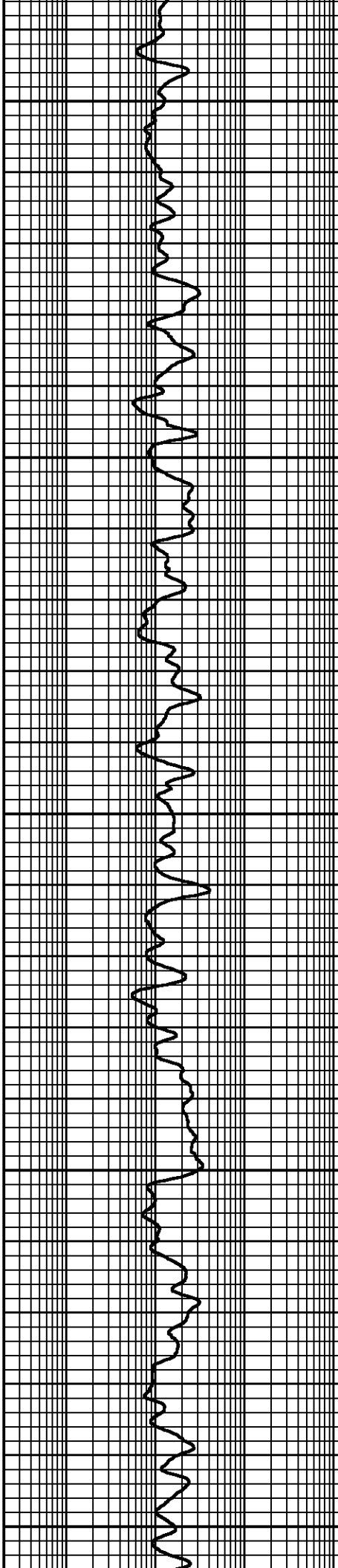
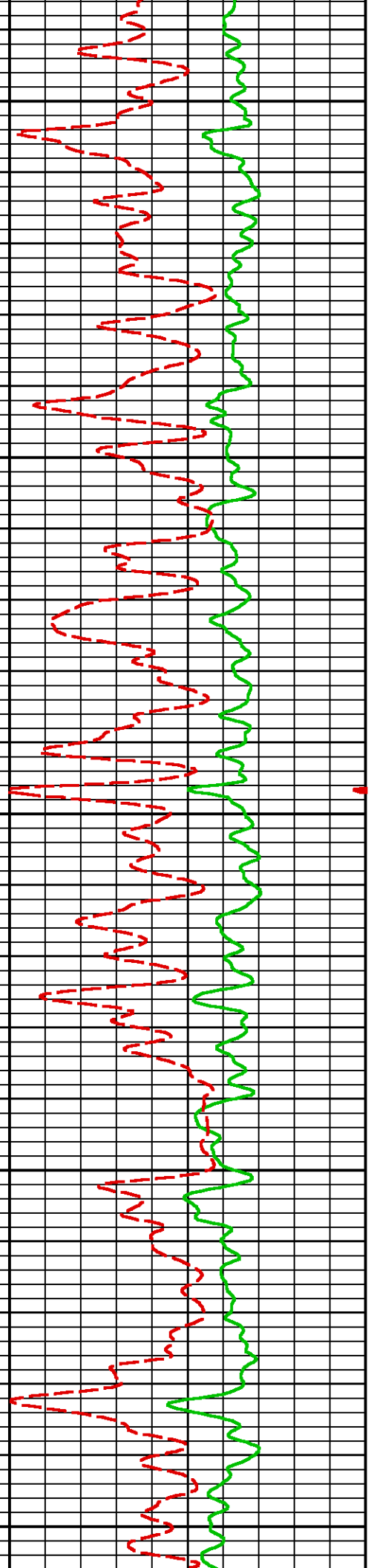
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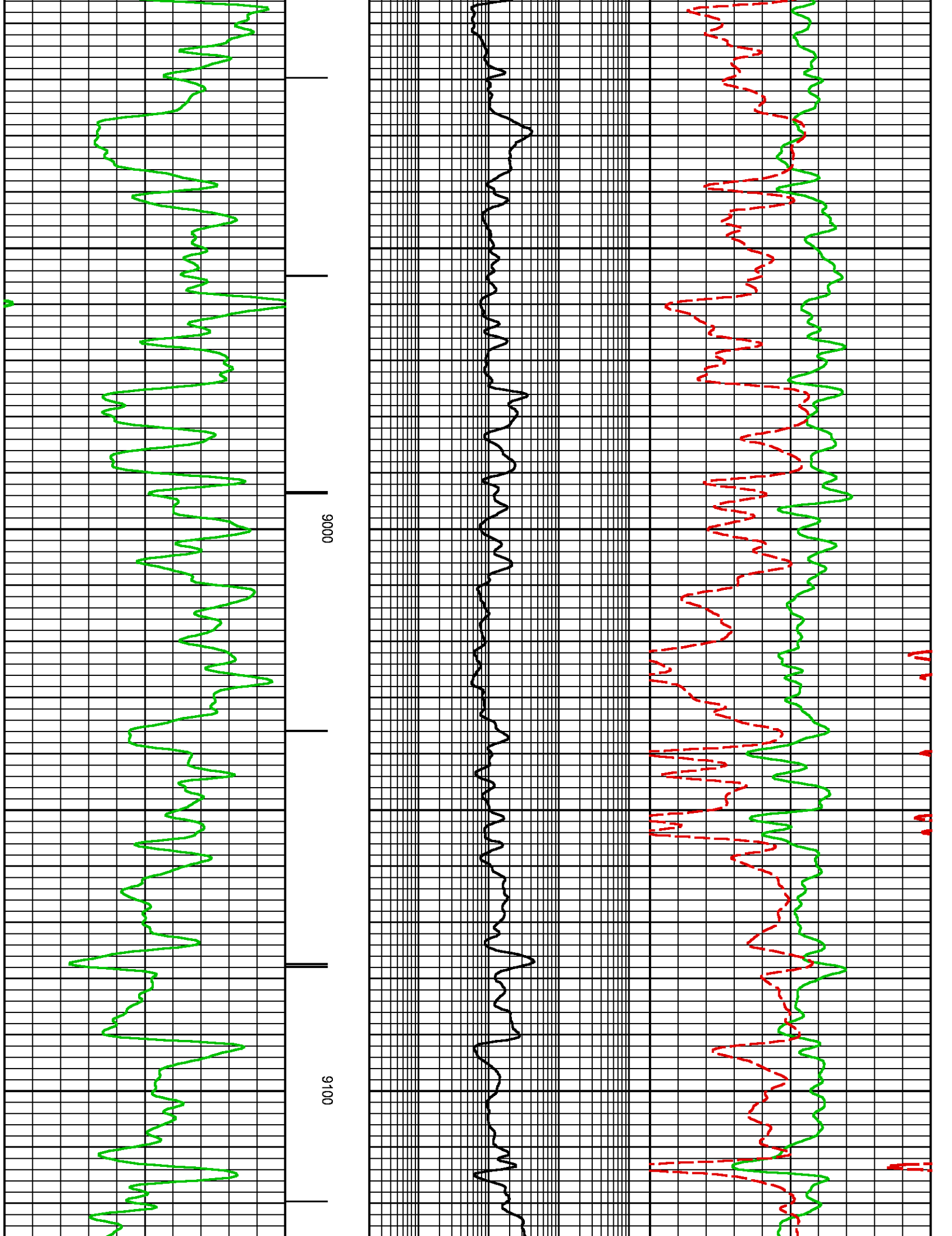
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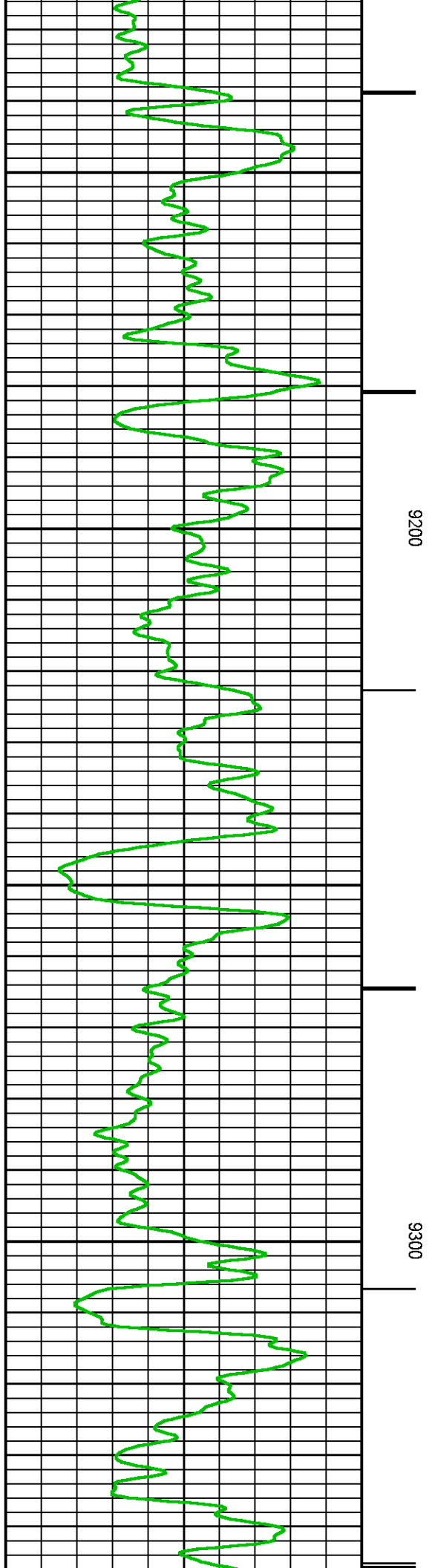
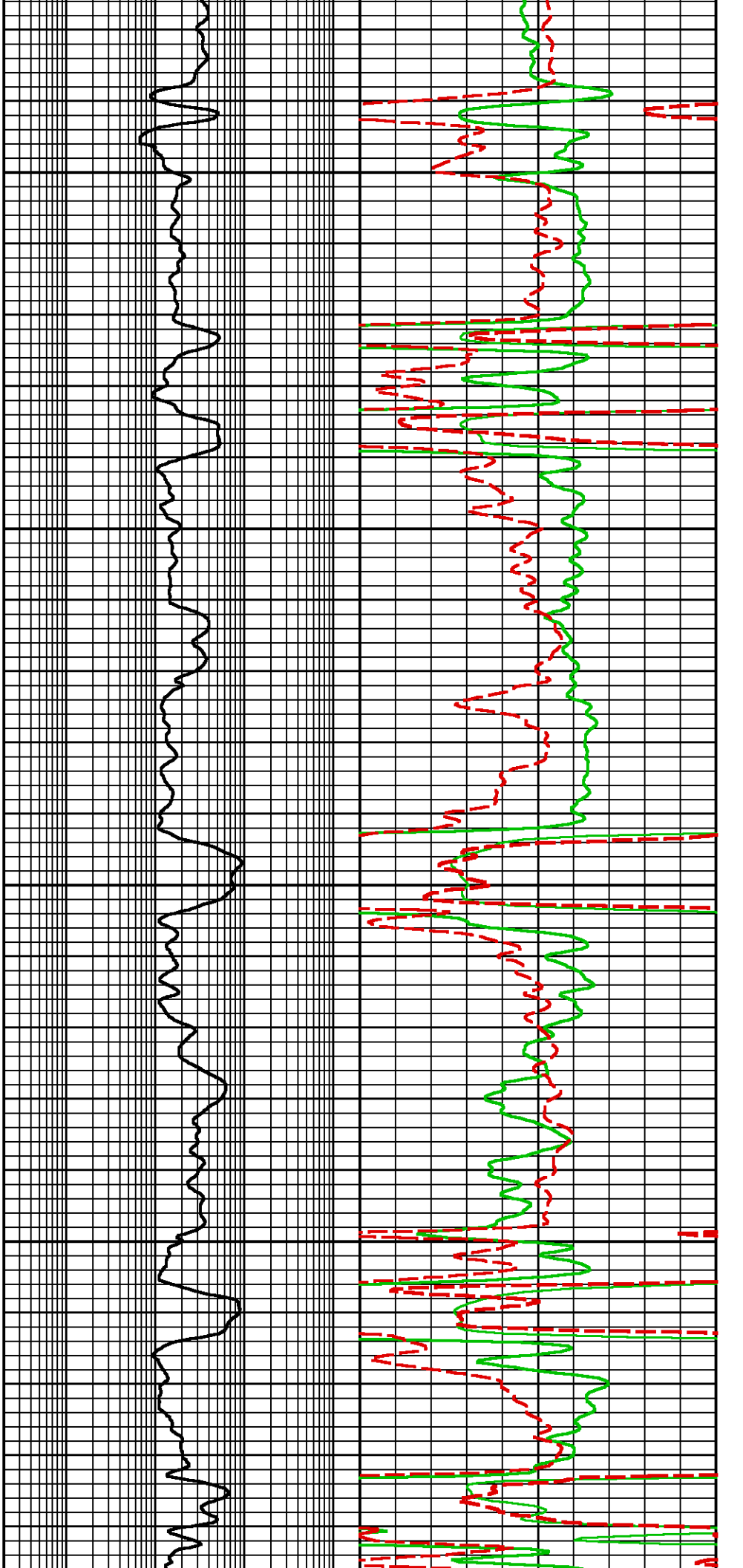


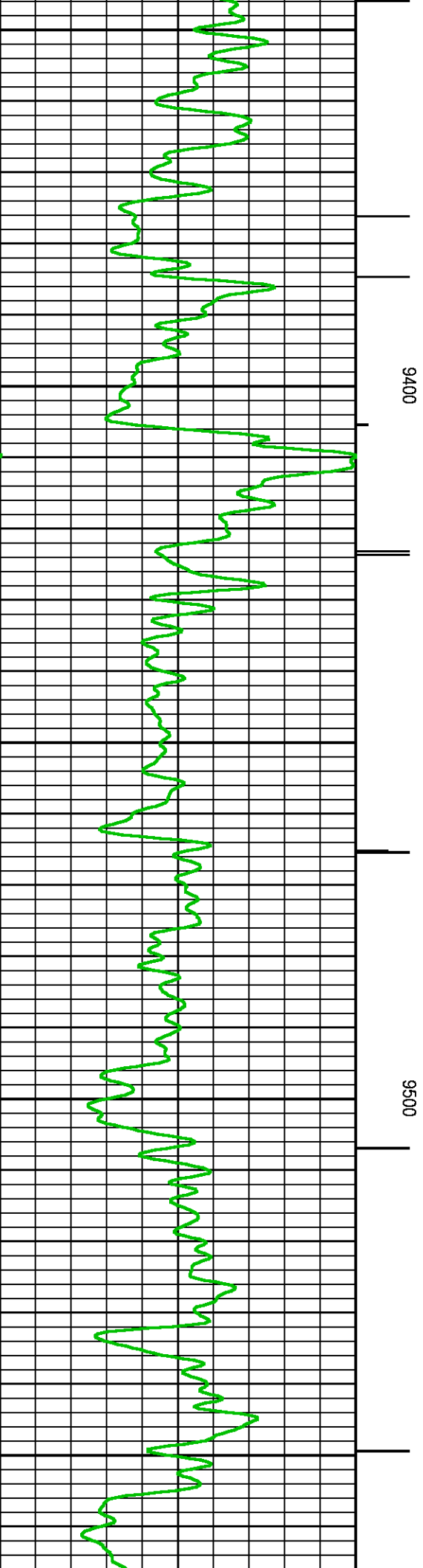
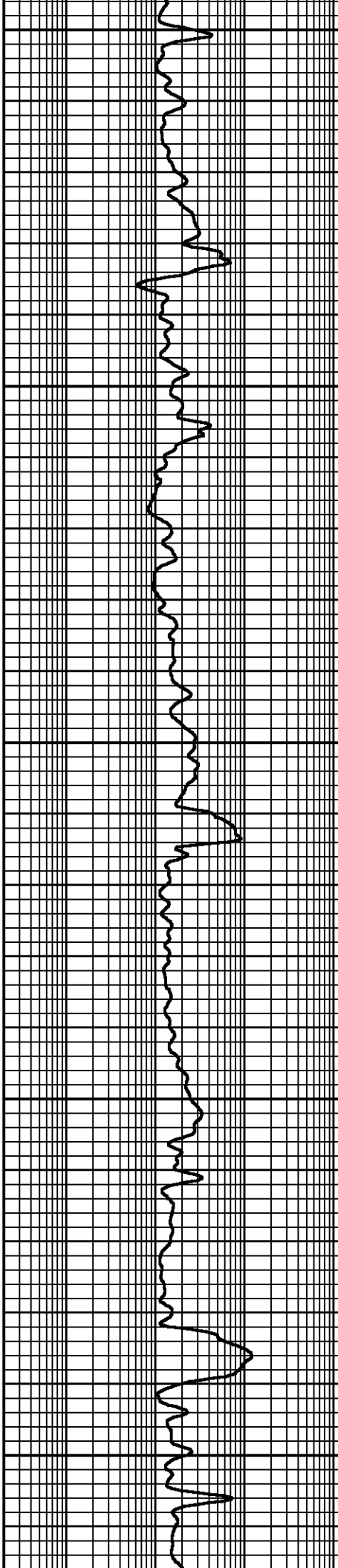
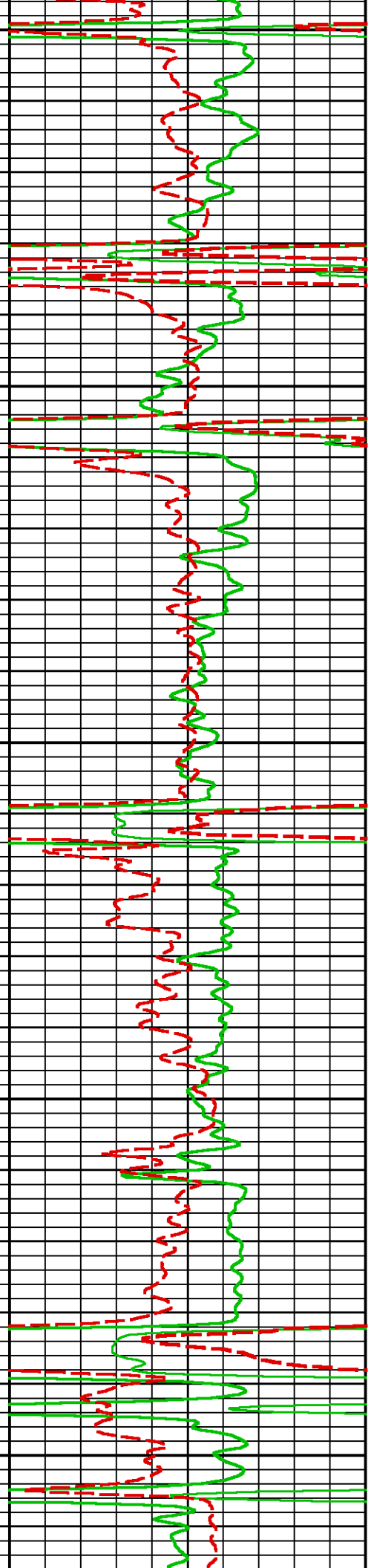


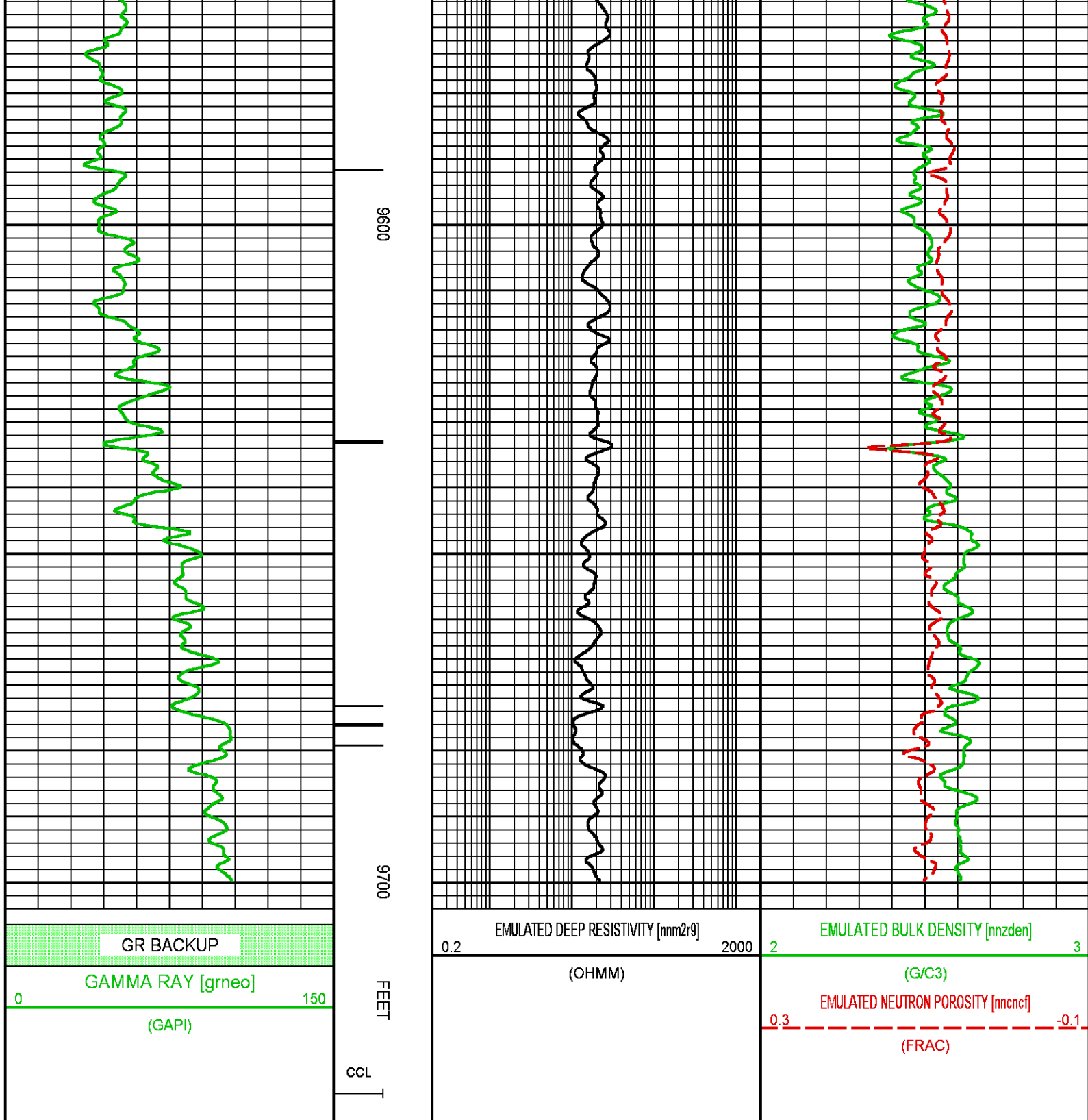



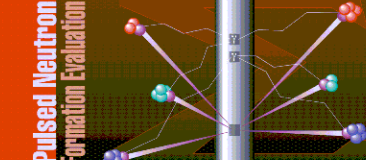










 <b>BAKER HUGHES</b> 	<b>COMPANY</b> <u>LARAMIE ENERGY II LLC</u> <b>WELL</b> <u>CC 0697-03-16W</u> <b>FIELD</b> <u>GRAND VALLEY</u> <b>COUNTY</b> <u>GARFIELD</u> <b>STATE</b> <u>COLORADO</u>	<b>FILE NO:</b> _____ <b>API NO:</b> <u>05045238100000</u>
	<b>LOCATION:</b> <u>SEE REMARKS SECTION</u>	<b>ELEVATIONS:</b> KB <u>8458.0 FT</u> DF _____ GL <u>8428.0 FT</u> <b>DATE</b> <u>23-AUG-2018</u>
<b>SEC</b> <u>3</u> <b>TWP</b> <u>6S</u> <b>RGE</b> <u>97W</u>		

