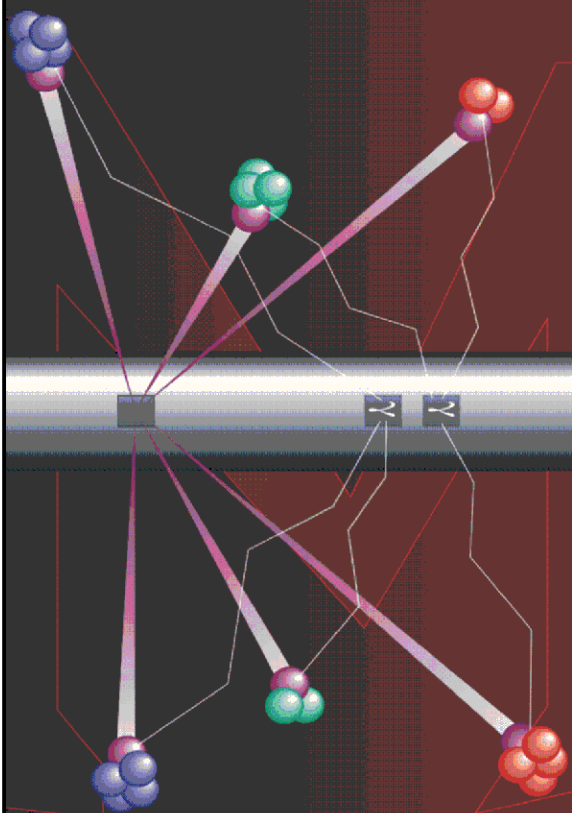


**BAKER  
HUGHES**  
a GE company



# Pulsed Neutron Formation Evaluation



## NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY LLC

WELL NICHOLS 0994-24-20W

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS SECTION

SEC 24 TWP 9S RGE 94W

ELEVATIONS:

KB 7236.0 FT DF GL 7212.0 FT

DATE 26-JUN-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>28-JUN-2018</u>
FIELD DATA	LOCATION: <u>GRAND JCT.</u>		ENGINEER: <u>T.NEWELL/US137656</u>	DATE: <u>26-JUN-2018</u>
FROM	TO			
<u>2256 FT</u>	<u>7821 FT</u>			

### REMARKS

LOCATION:  
SHL: 2323' FNL & 2780' FWL  
BHL: 428' FSL & 1550' FWL

TRAINING WELL:  
NICHOLS 0994-24-06W

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

BONG LOG IS DEPTH REFERENCE LOG

# NEO RESULTS FOR NICHOLS 0994-24-20W (G-SAND)

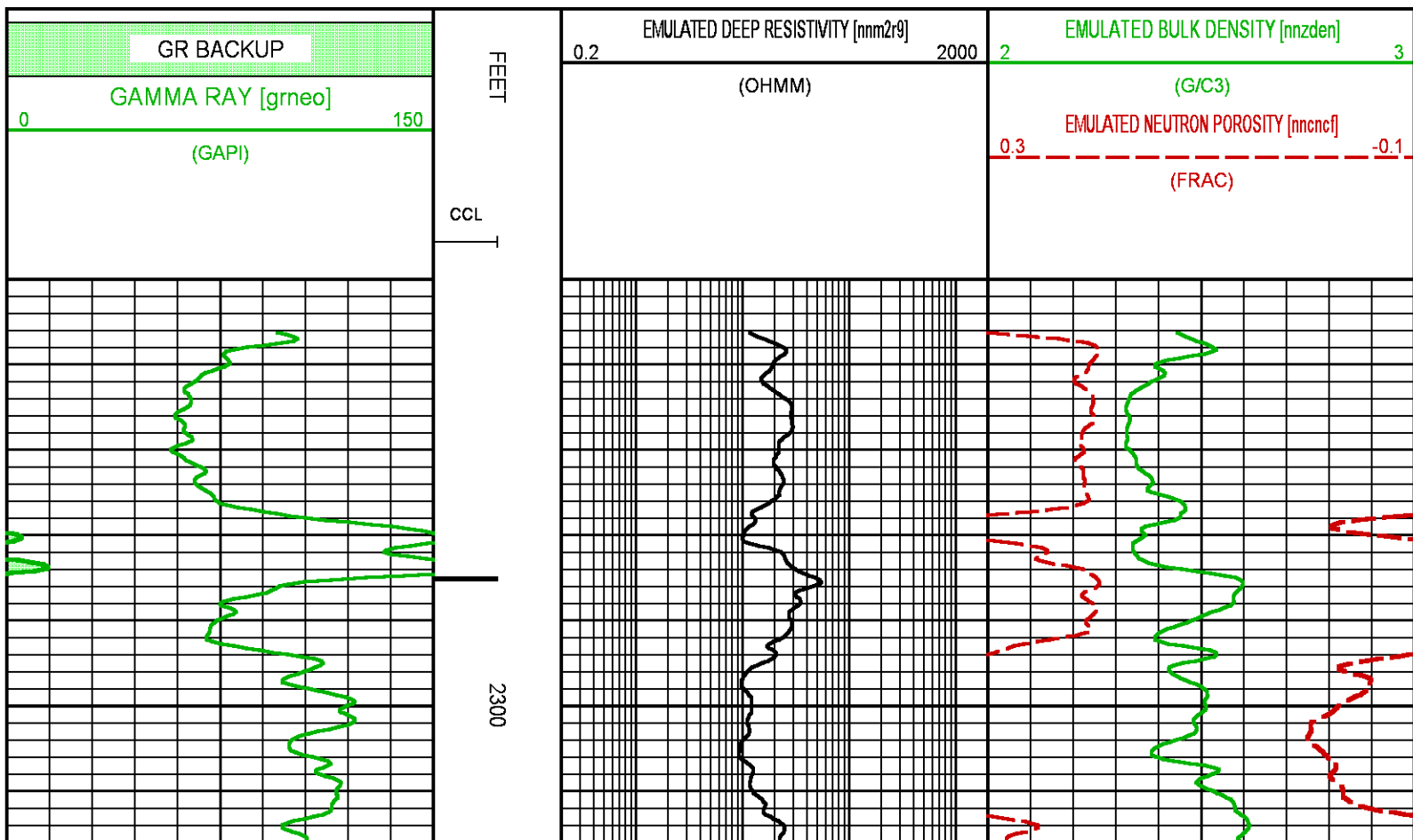
ECLIPS ECPLLOT from ECLIPS 7.0 WFM 6.0.7905.1 Wed 08/23/2017 09:02:35.01

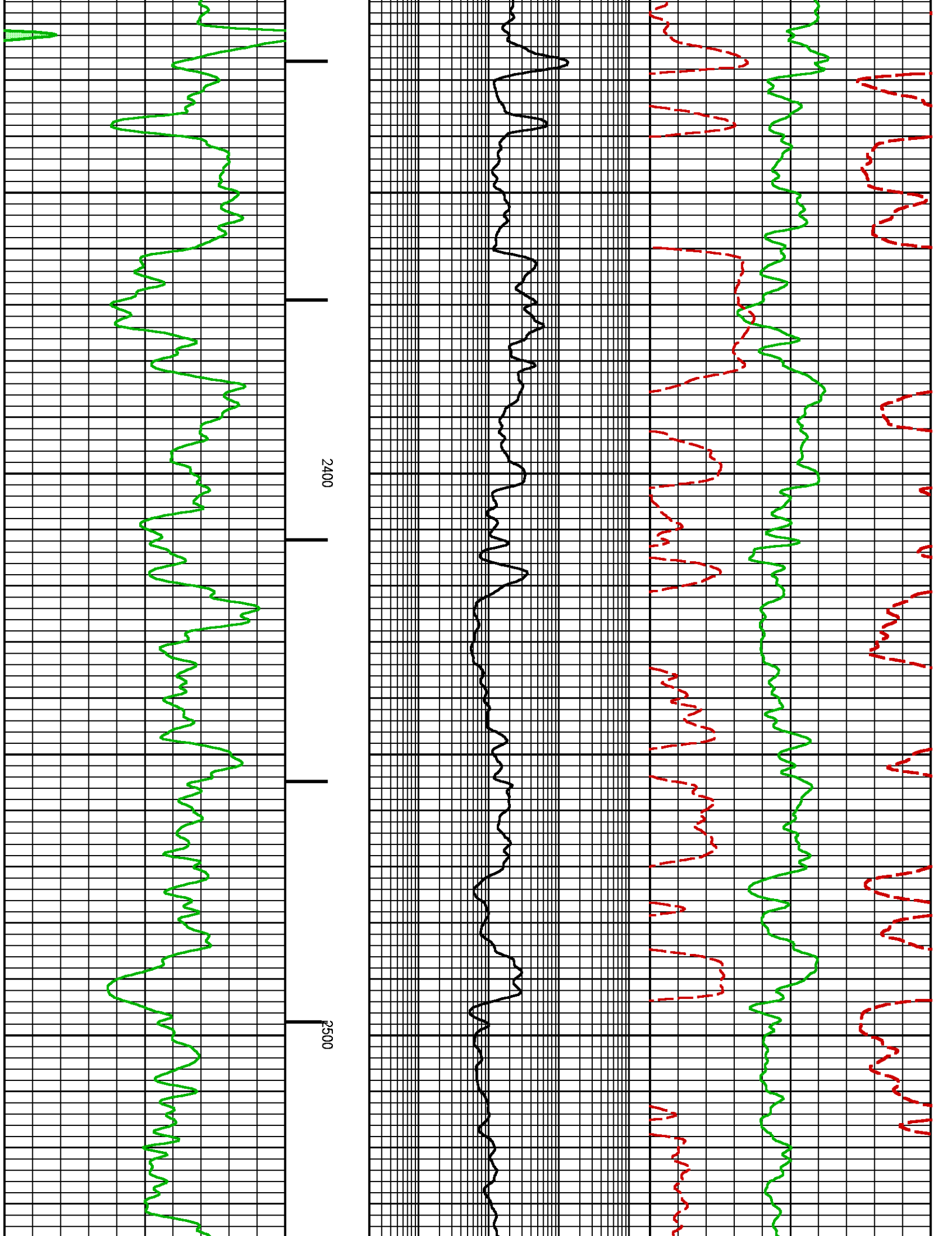
Plotted: Thu Jun 28 08:05:14 2018

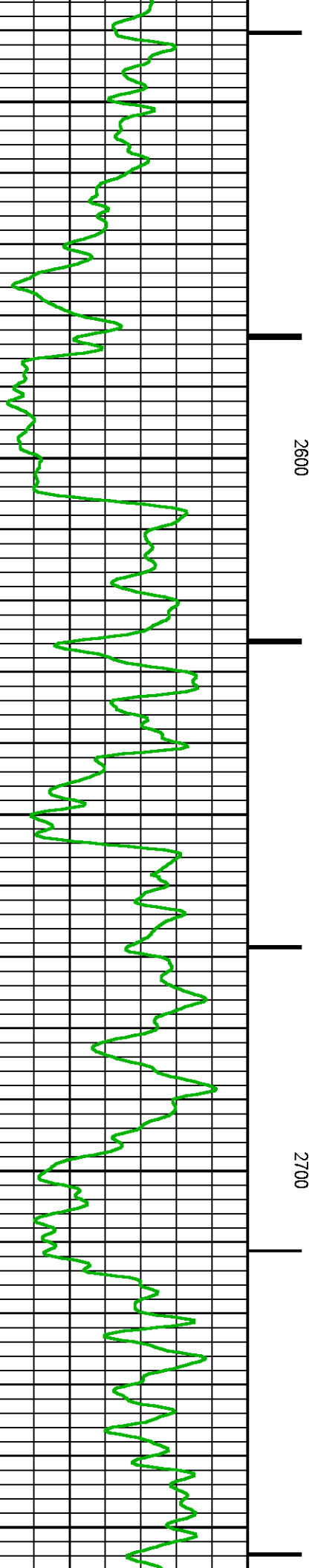
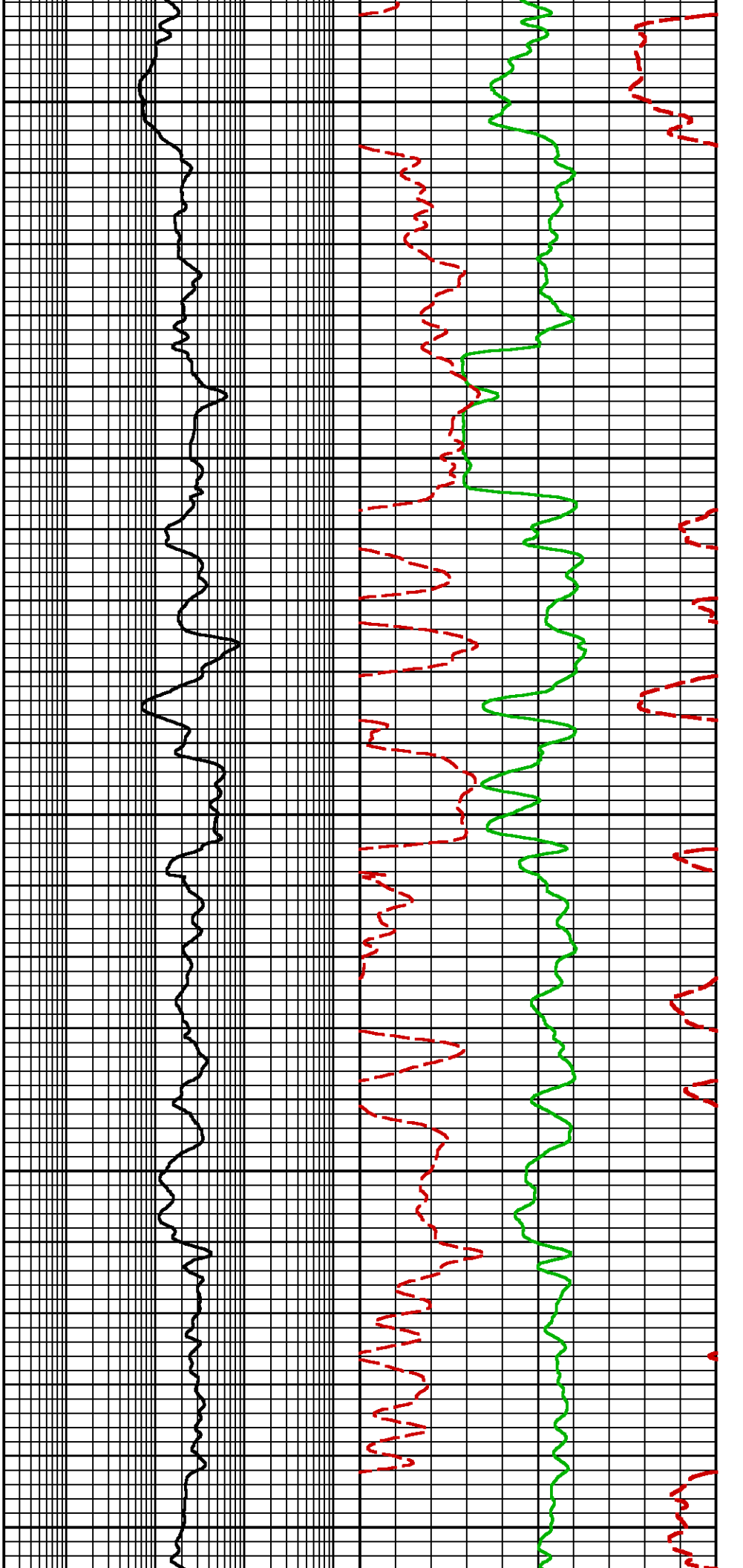
## CURVE MEASURE POINT OFFSET

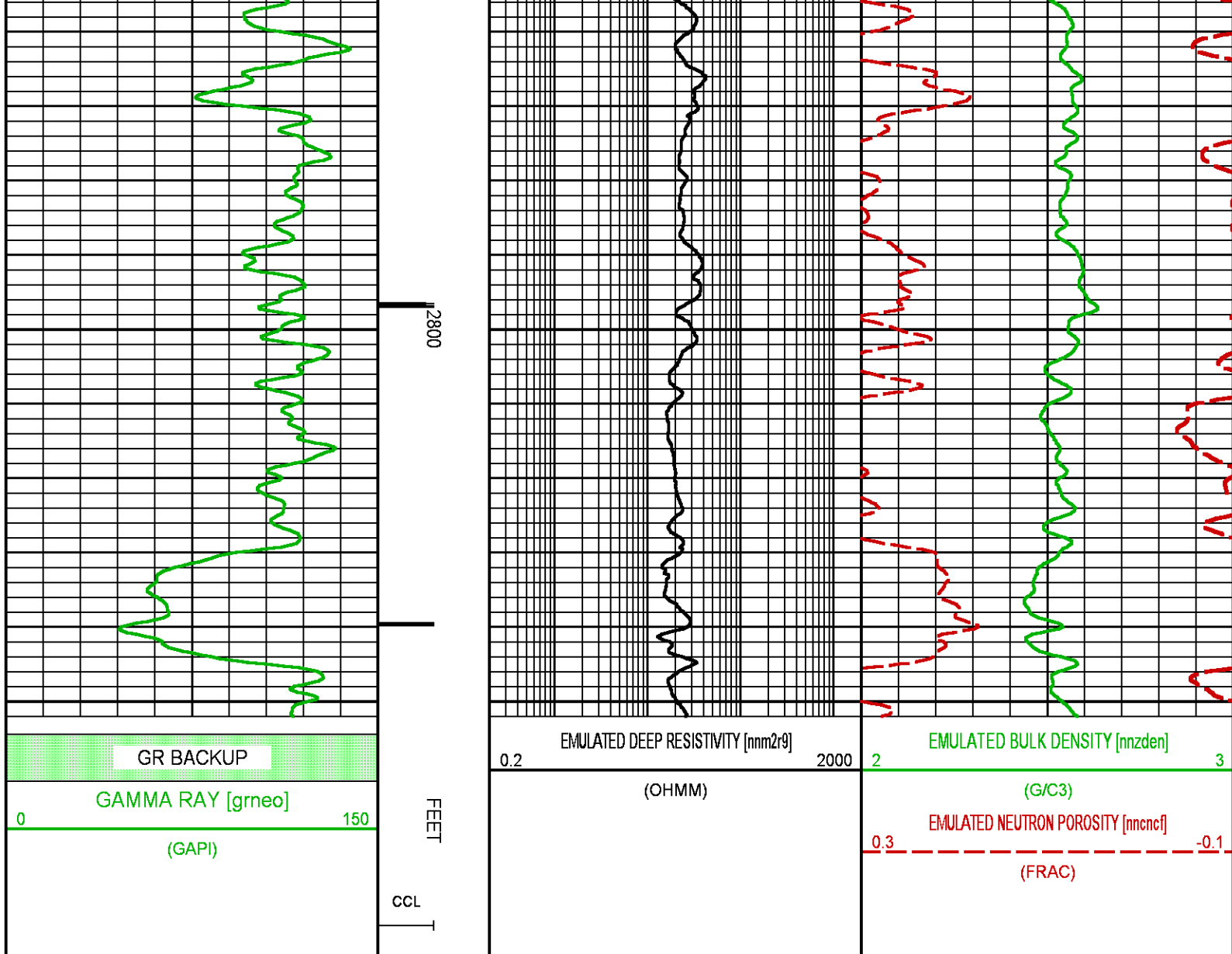
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNCf	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

**Project** : NA  
**User** : kotoale  
**Presentation** : BHI1F65XZ1:d:\Ape\_Projects\LARAMIE\_NICHOLS\_0994\_24\_20W\_NEO\NEO\_PRESENTATION\_LARAMIE\_G-Sand.pdf [5"/100' Scale]  
**Plot Interval** : 2250 - 2852 Feet  
**Data File 1** : F1 : BHI1F65XZ1:D:\Ape\_Projects\LARAMIE\_NICHOLS\_0994\_24\_20W\_NEO\Merged\_Set\_Final.xtf  
**Created On** : N/A  
**Company** : LARAMIE ENERGY LLC  
**Well** : NICHOLS 0994-24-20W  
**Field** : VEGA  
**File Interval** : 2256.25 - 7821.25 Feet  
**OCT** : NA









## NEO RESULTS FOR NICHOLS 0994-24-20W (MAIN)

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Plotted: Thu Jun 28 08:05:14 2018

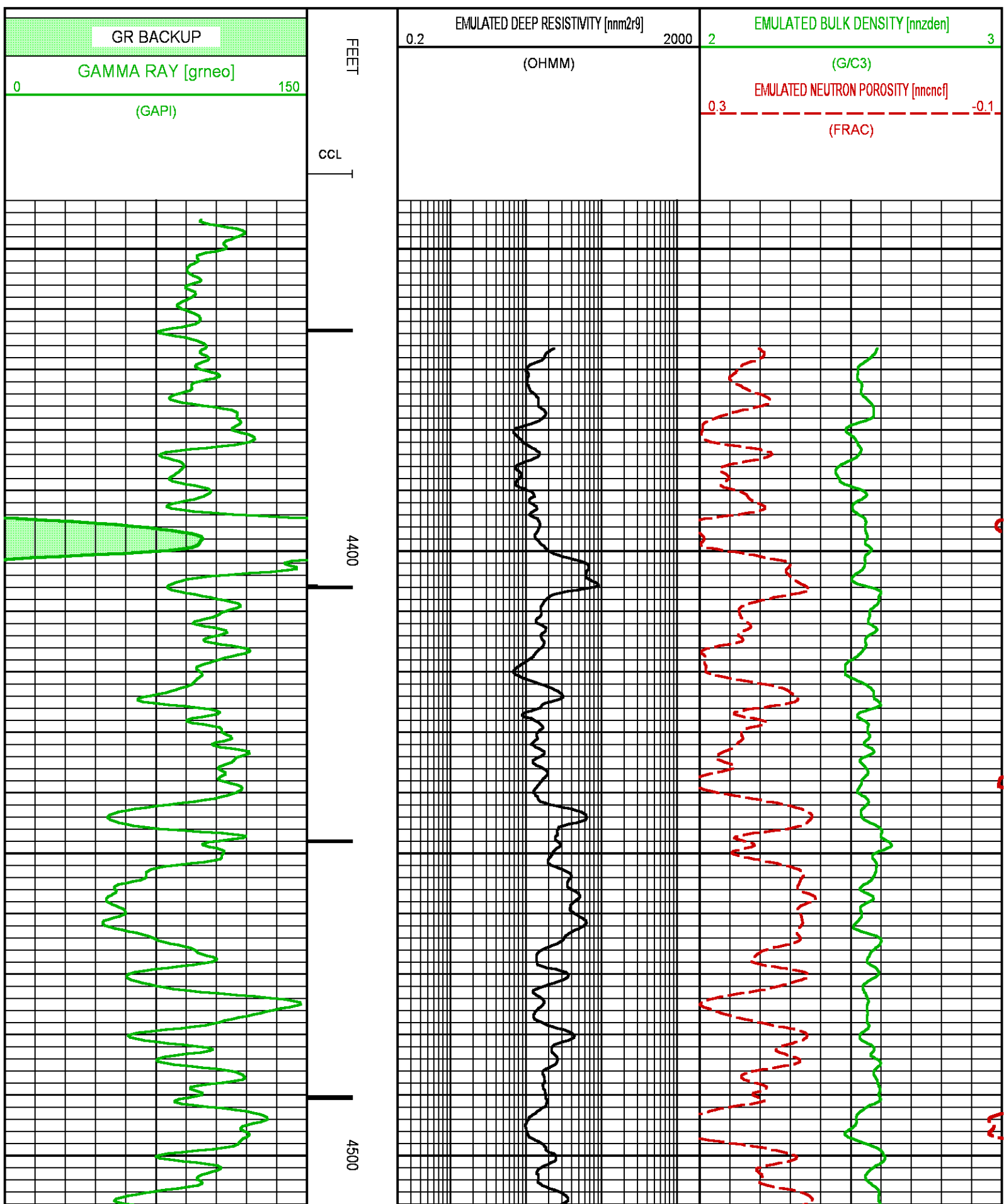
### CURVE MEASURE POINT OFFSET

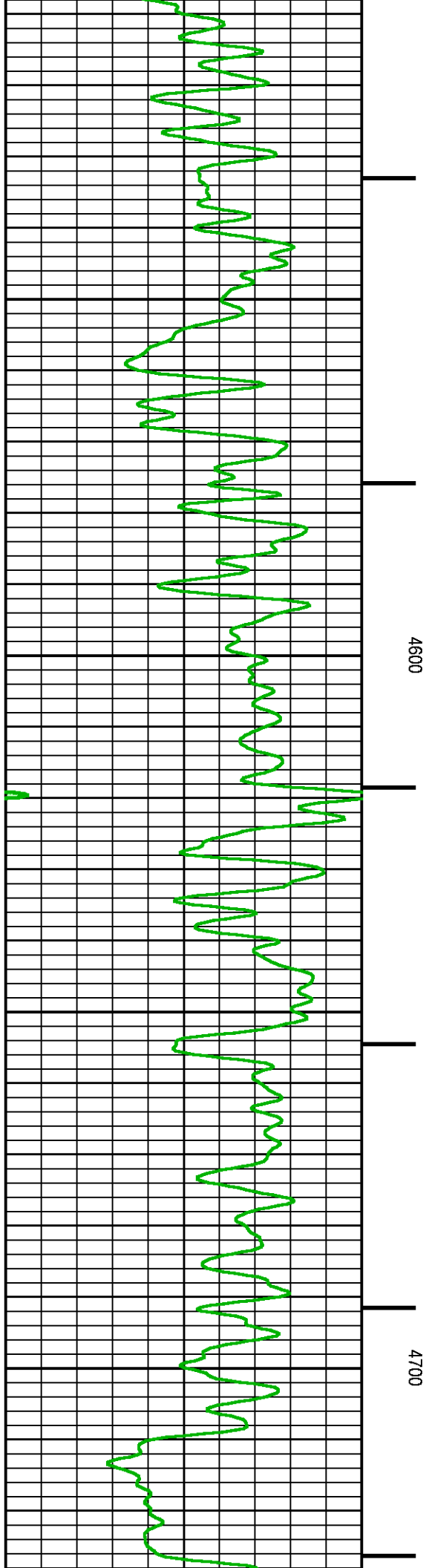
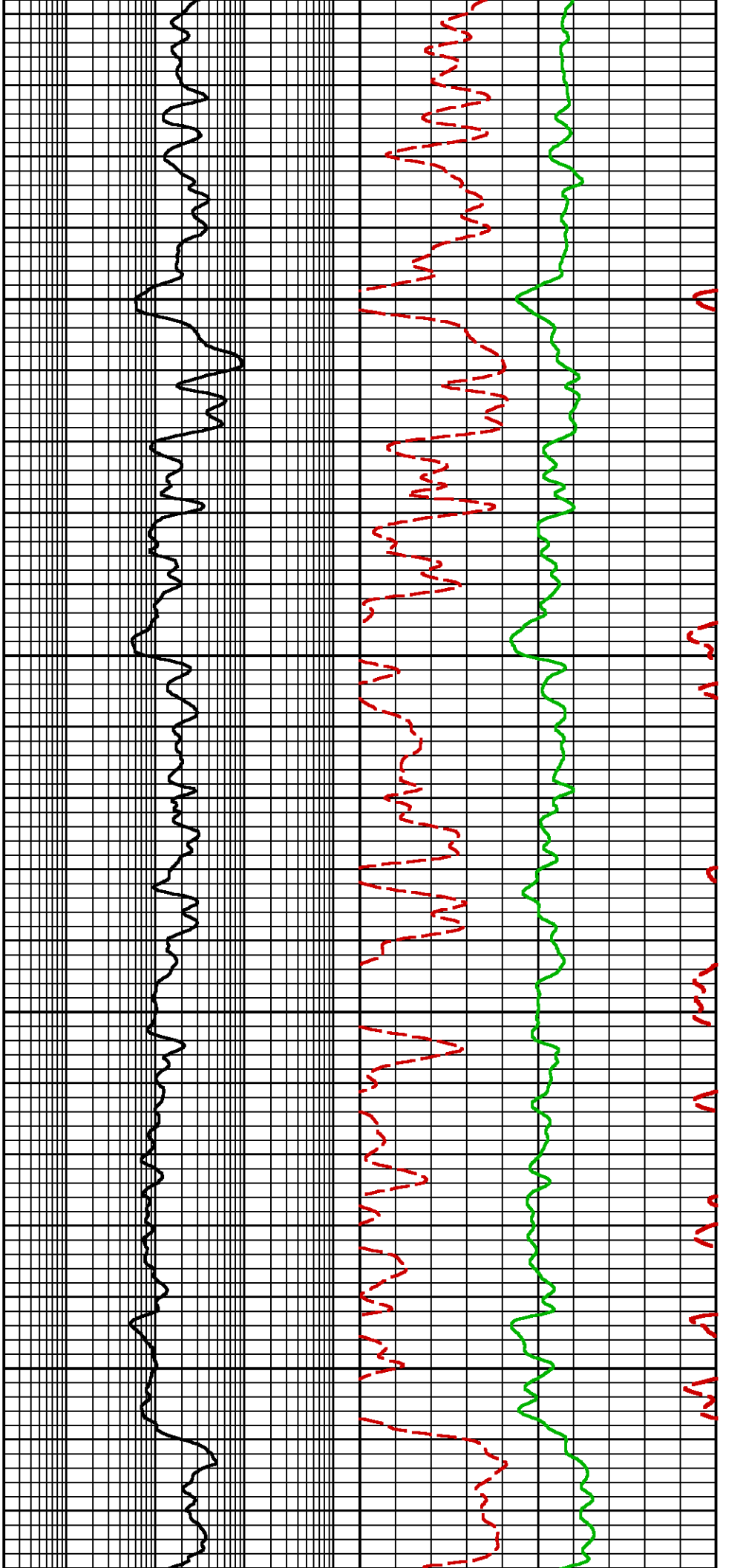
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNCF	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

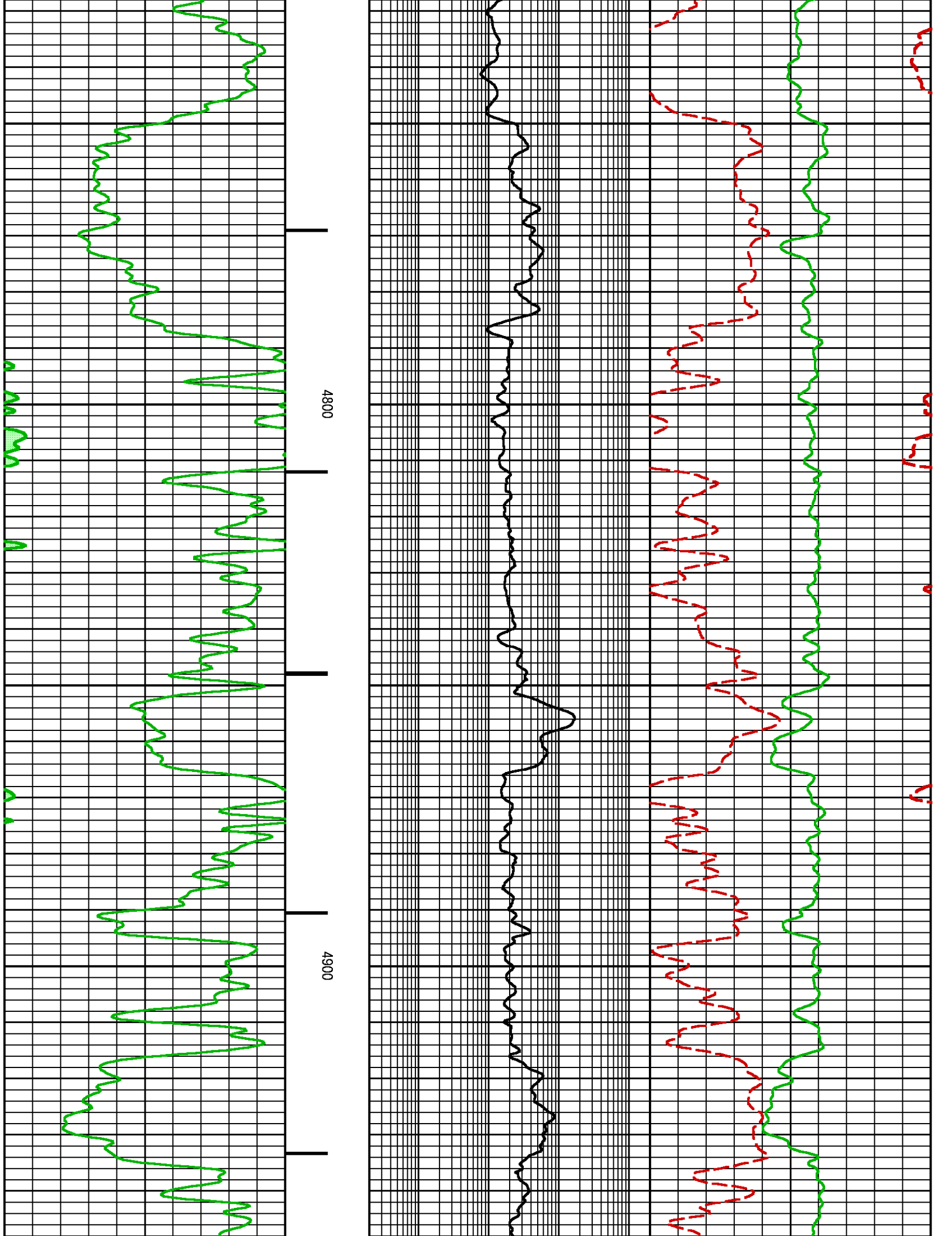
Project : NA  
 User : kotoale  
 Presentation : BHI1F65XZ1:d:\Ape\_Projects\LARAMIE\_NICHOLS\_0994\_24\_20W\_NEO\NEO\_PRESENTATION\_LARAMIE\_MAIN.pdf [5"/100' Scale]  
 Plot Interval : 4342 - 7830 Feet

Data File 1 : F1 : BHI1F65XZ1:D:\Ape\_Projects\LARAMIE\_NICHOLS\_0994\_24\_20W\_NEO\Mained\_Sat\_Final.rtf

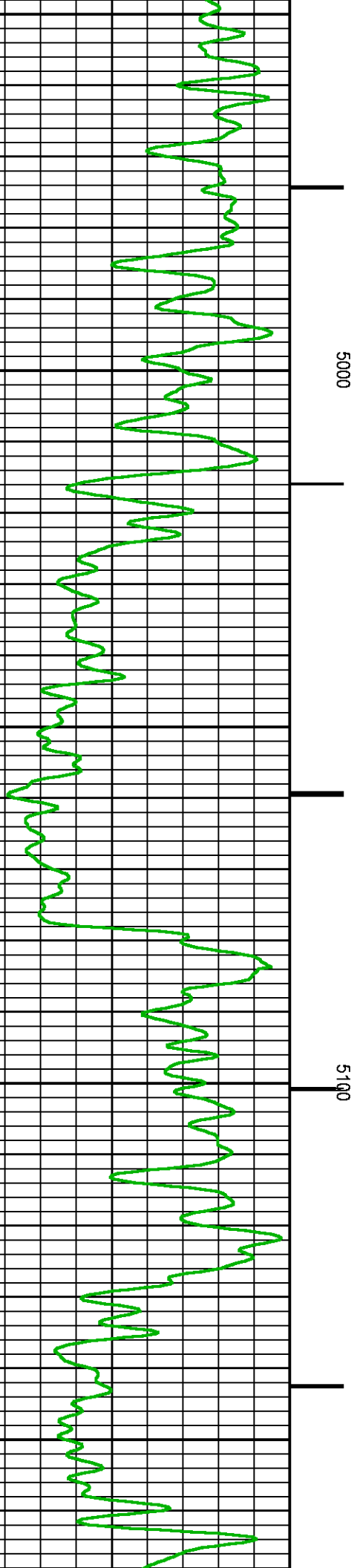
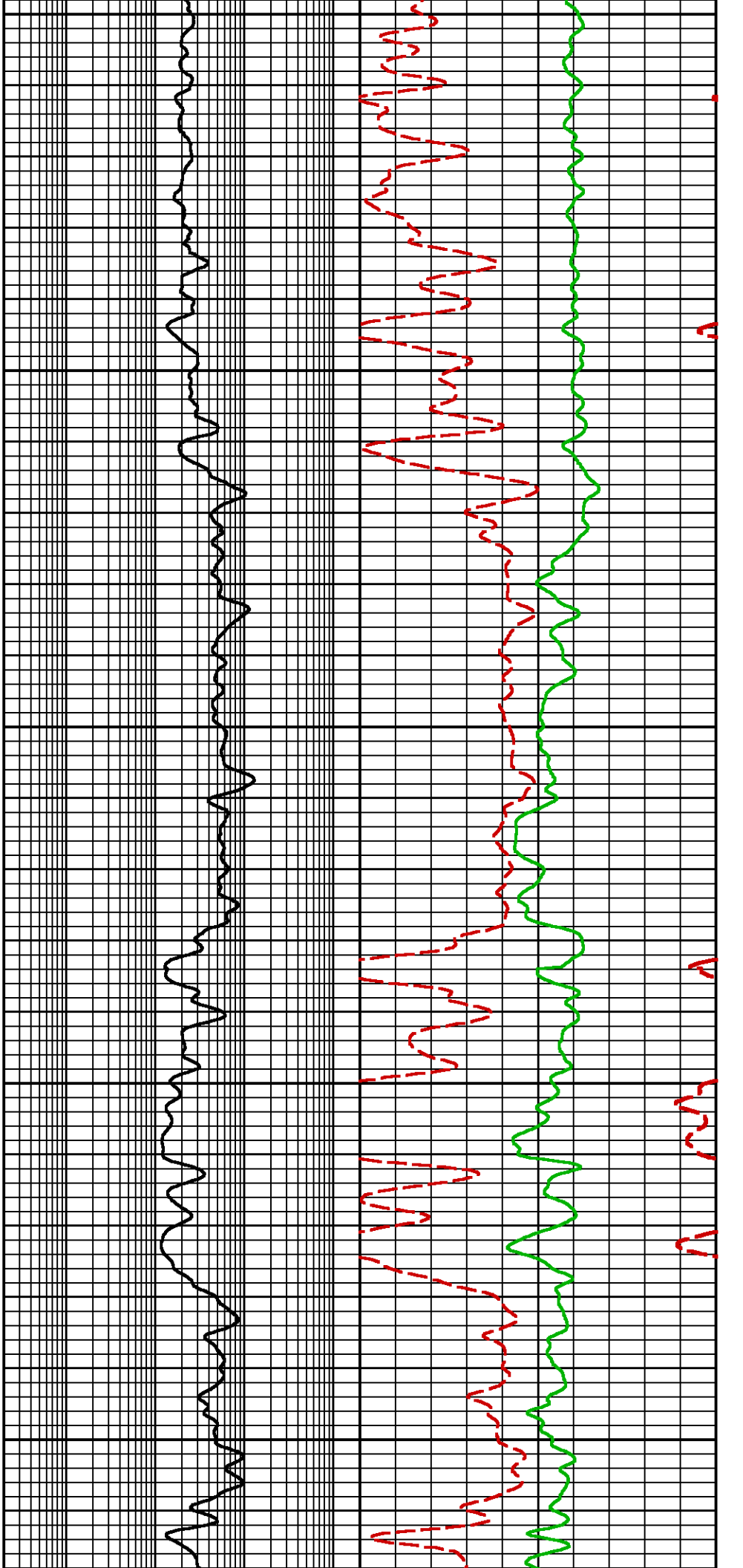
Data File 1 : F1 : BH1F05XZ1.D:Vape\_Projects\LARAMIE\_NICHOLS\_0994\_24\_20W\_NEO\merged\_Set\_Final.txt  
Created On : N/A  
Company : LARAMIE ENERGY LLC  
Well : NICHOLS 0994-24-20W  
Field : VEGA  
File Interval : 2256.25 - 7821.25 Feet  
OCT : NA

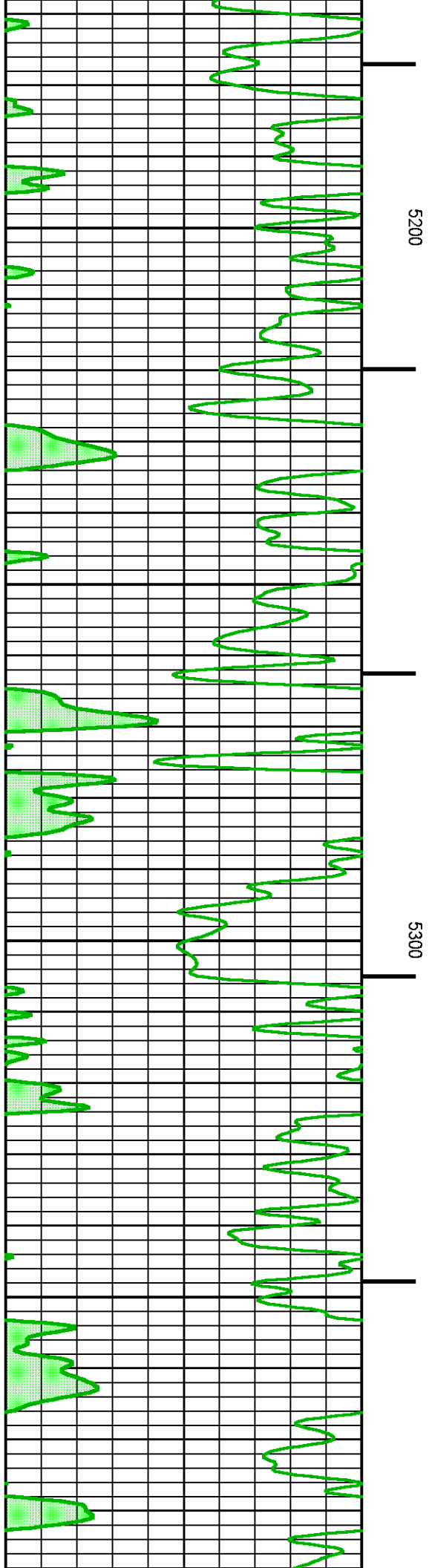
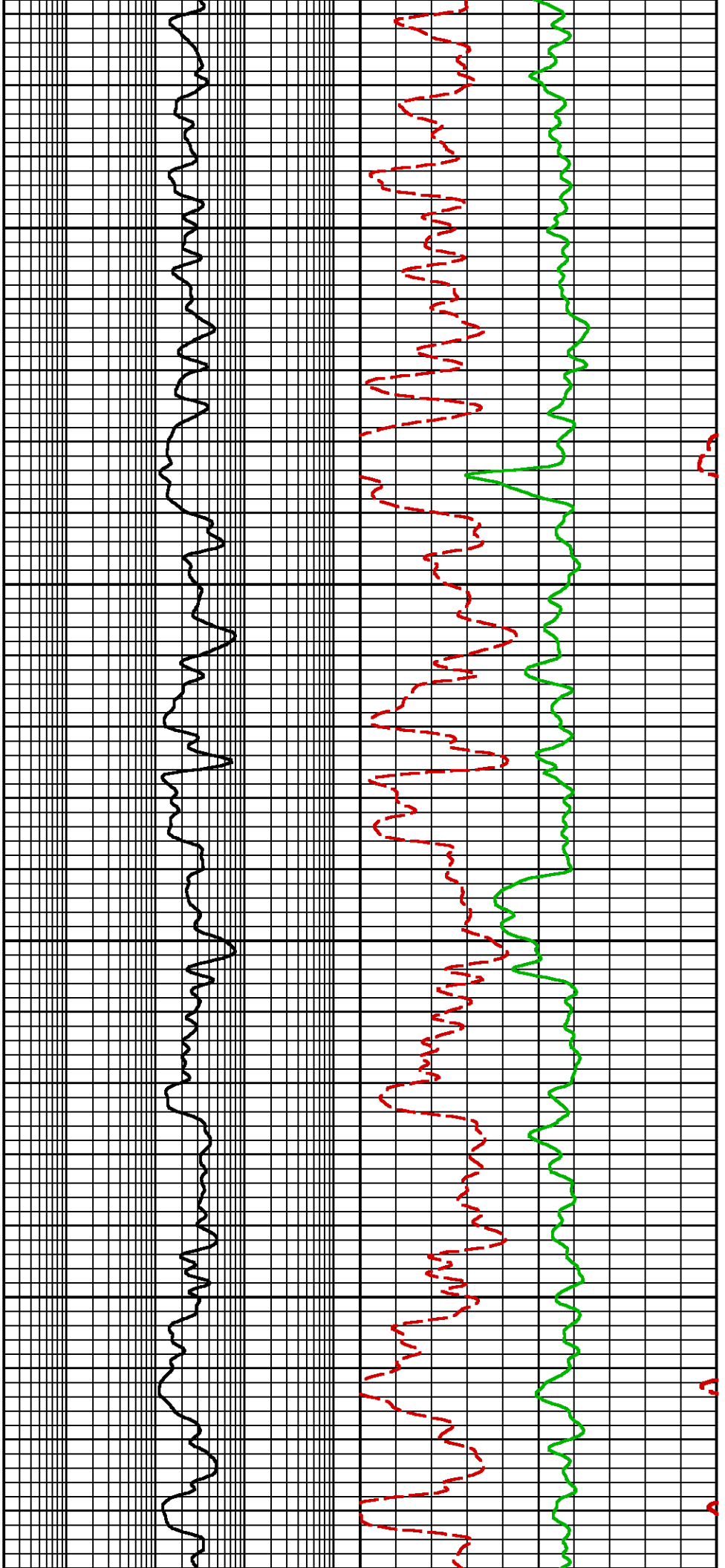


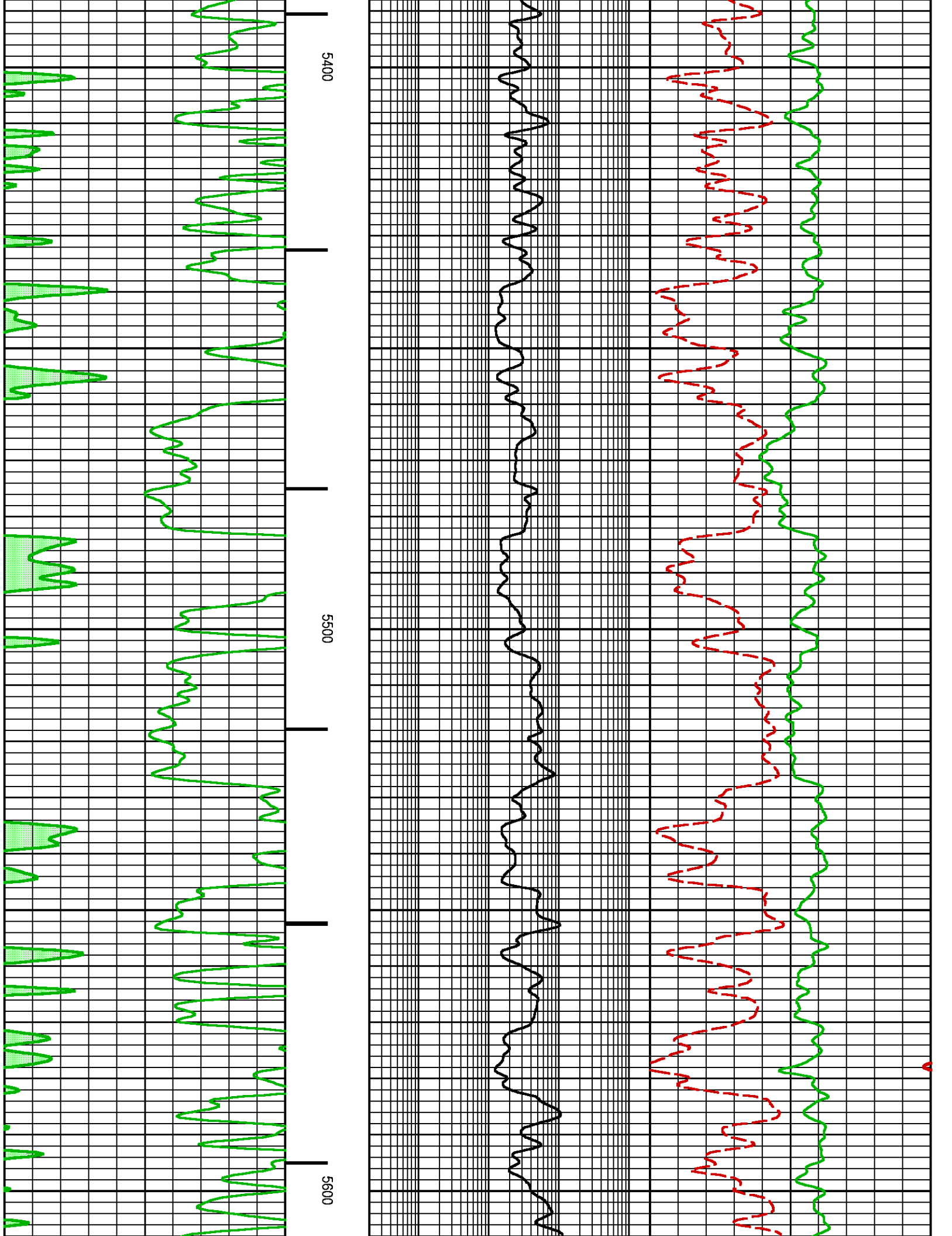


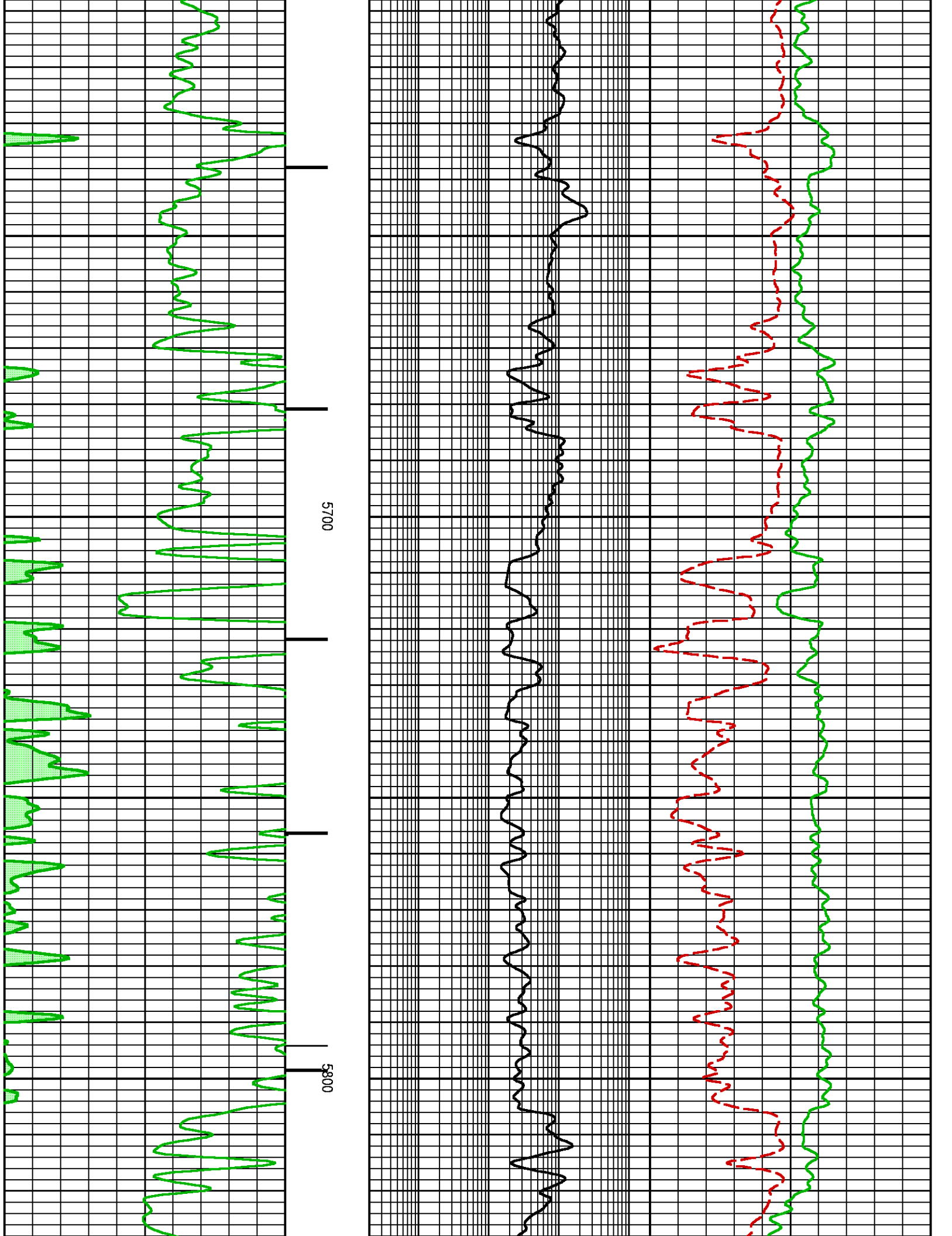


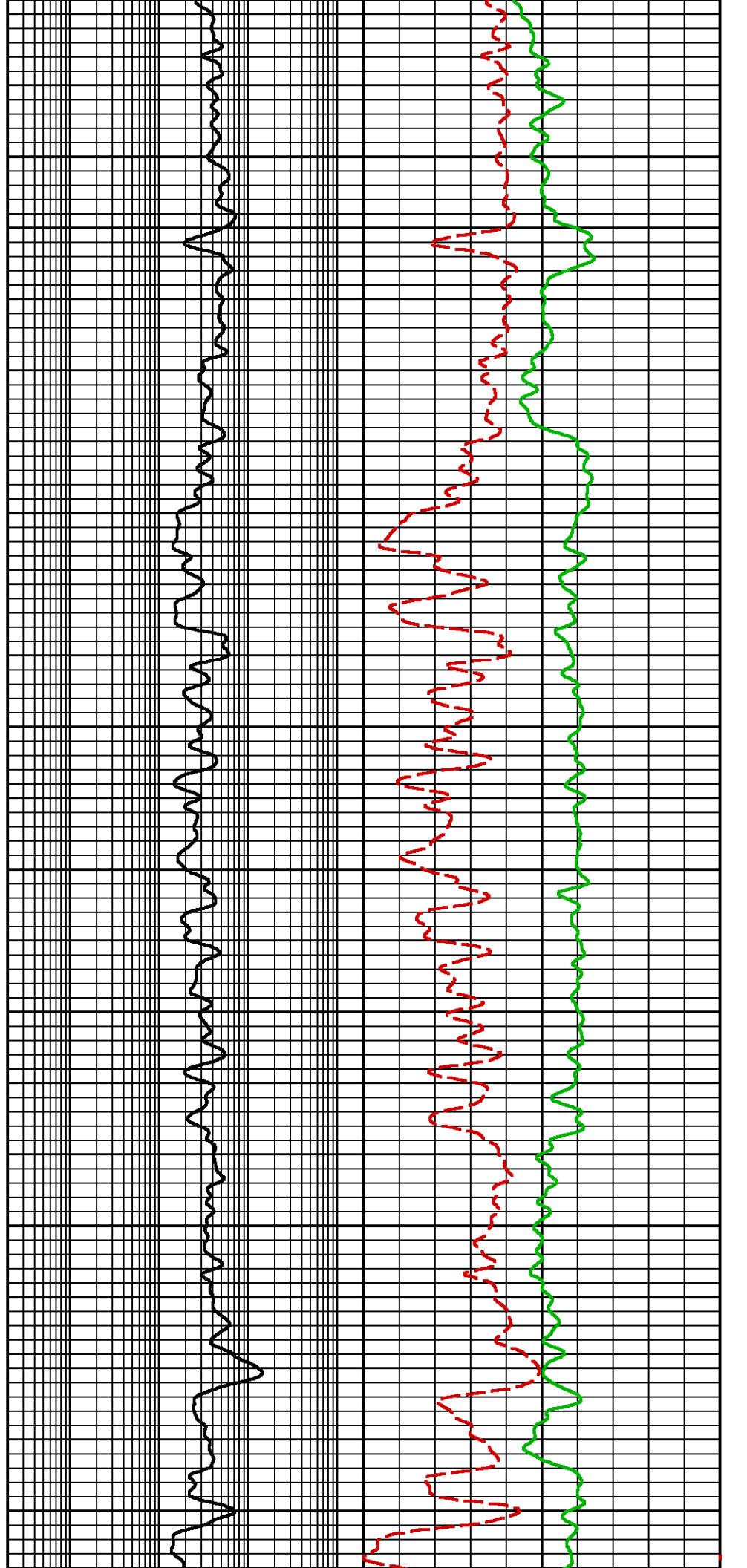
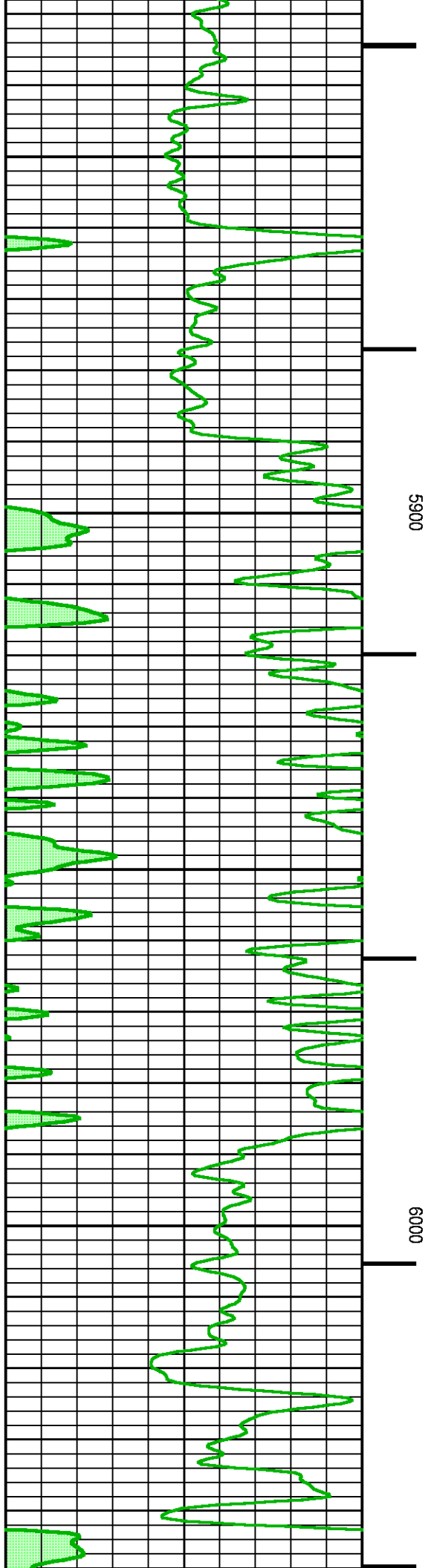


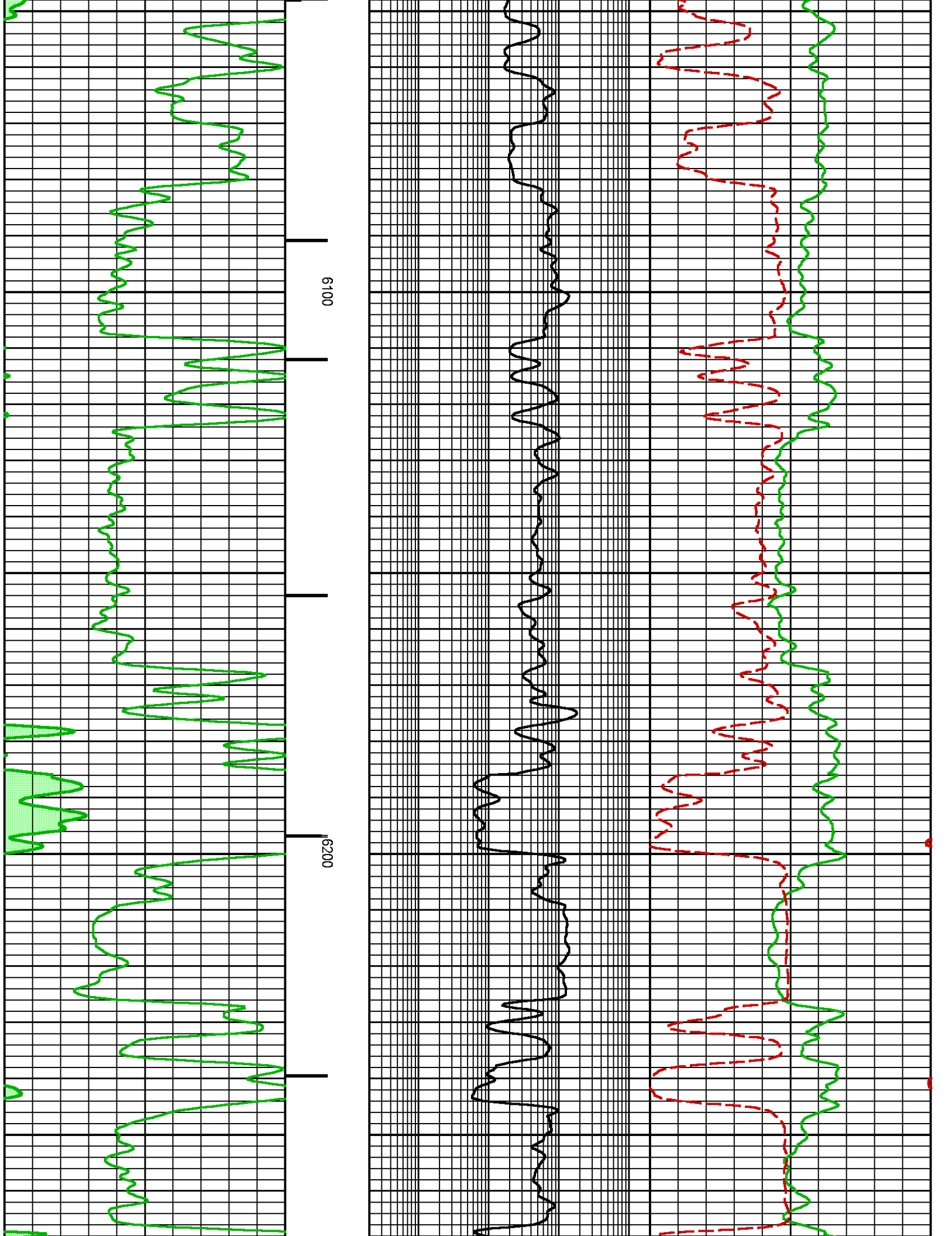


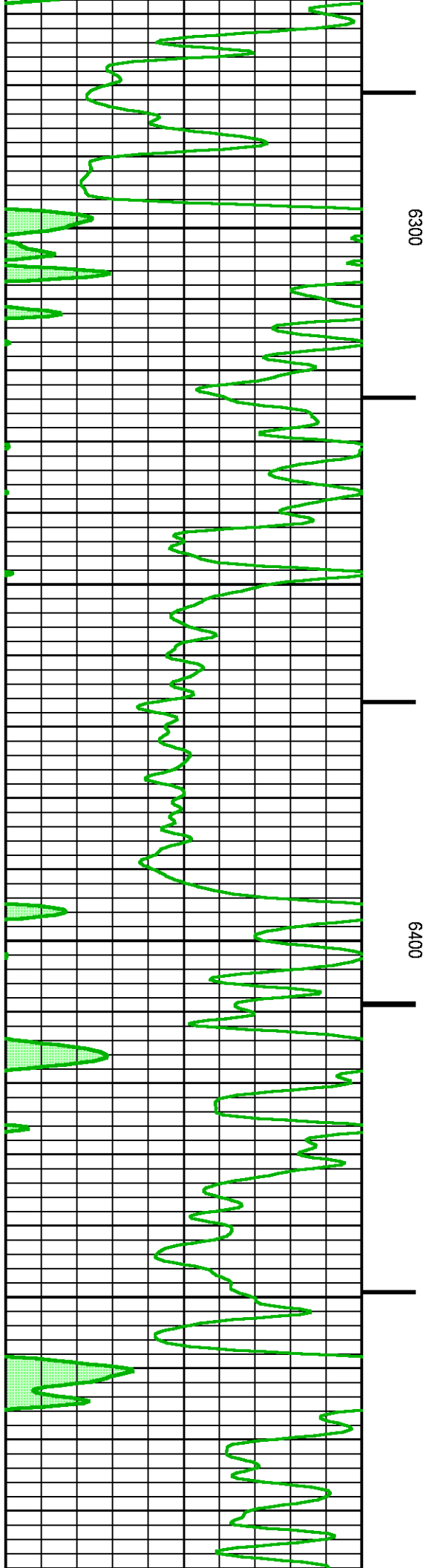
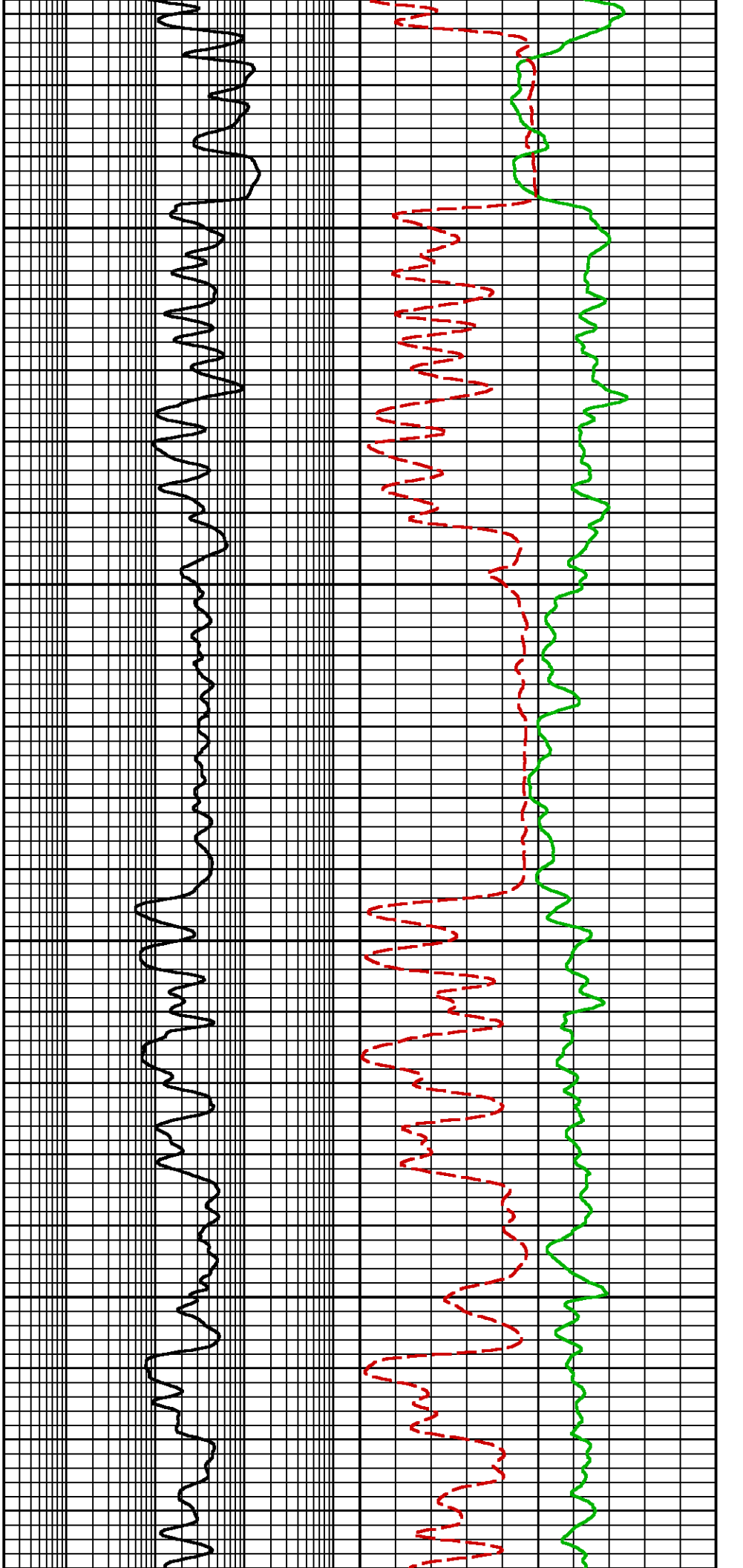


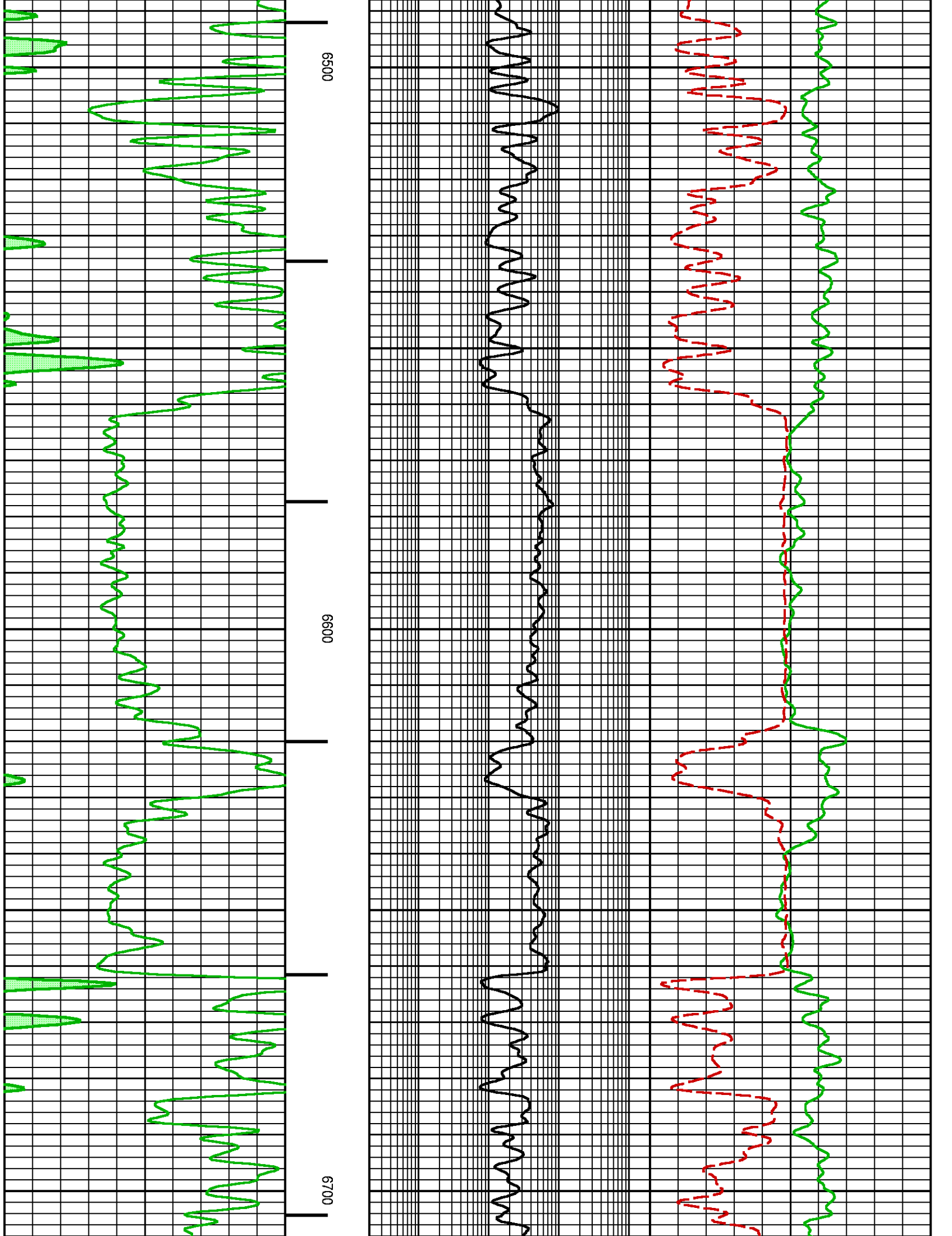




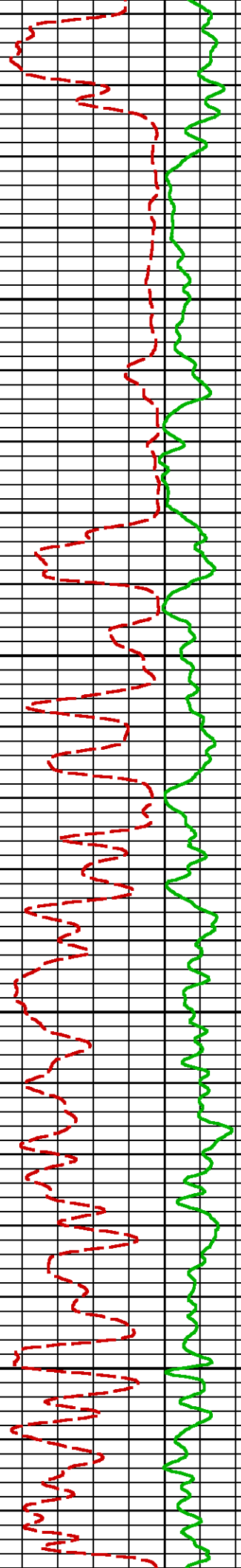
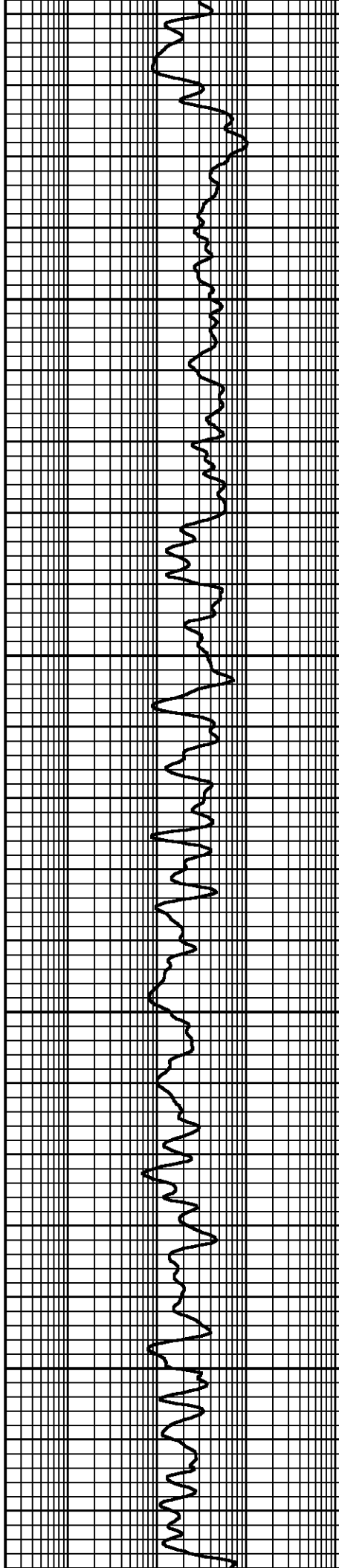
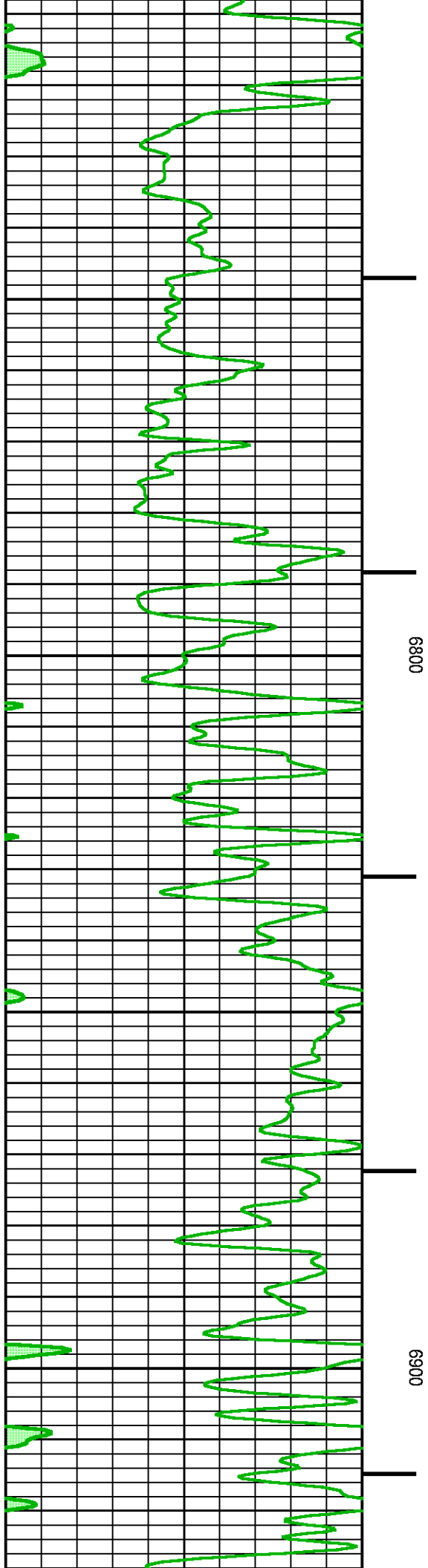


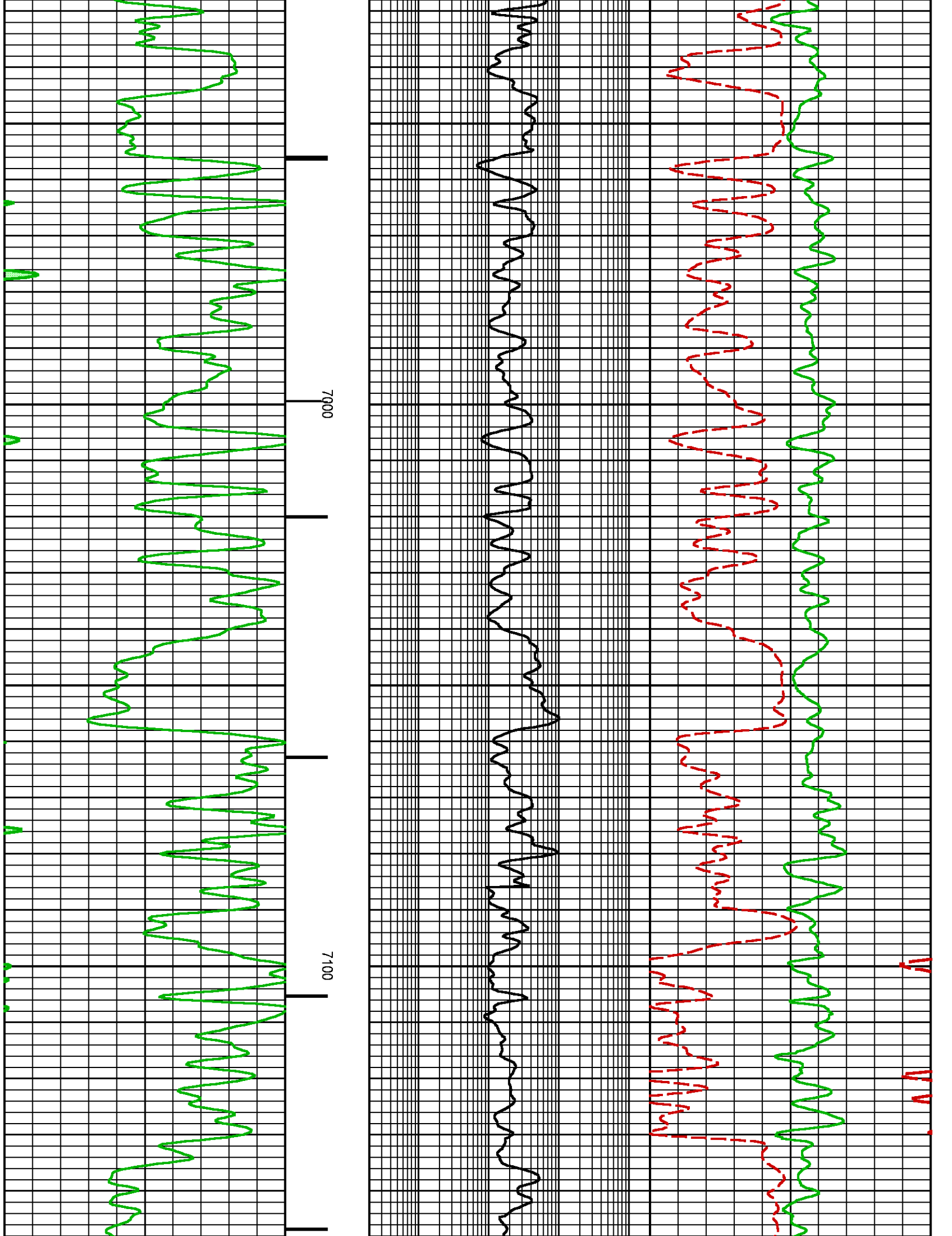


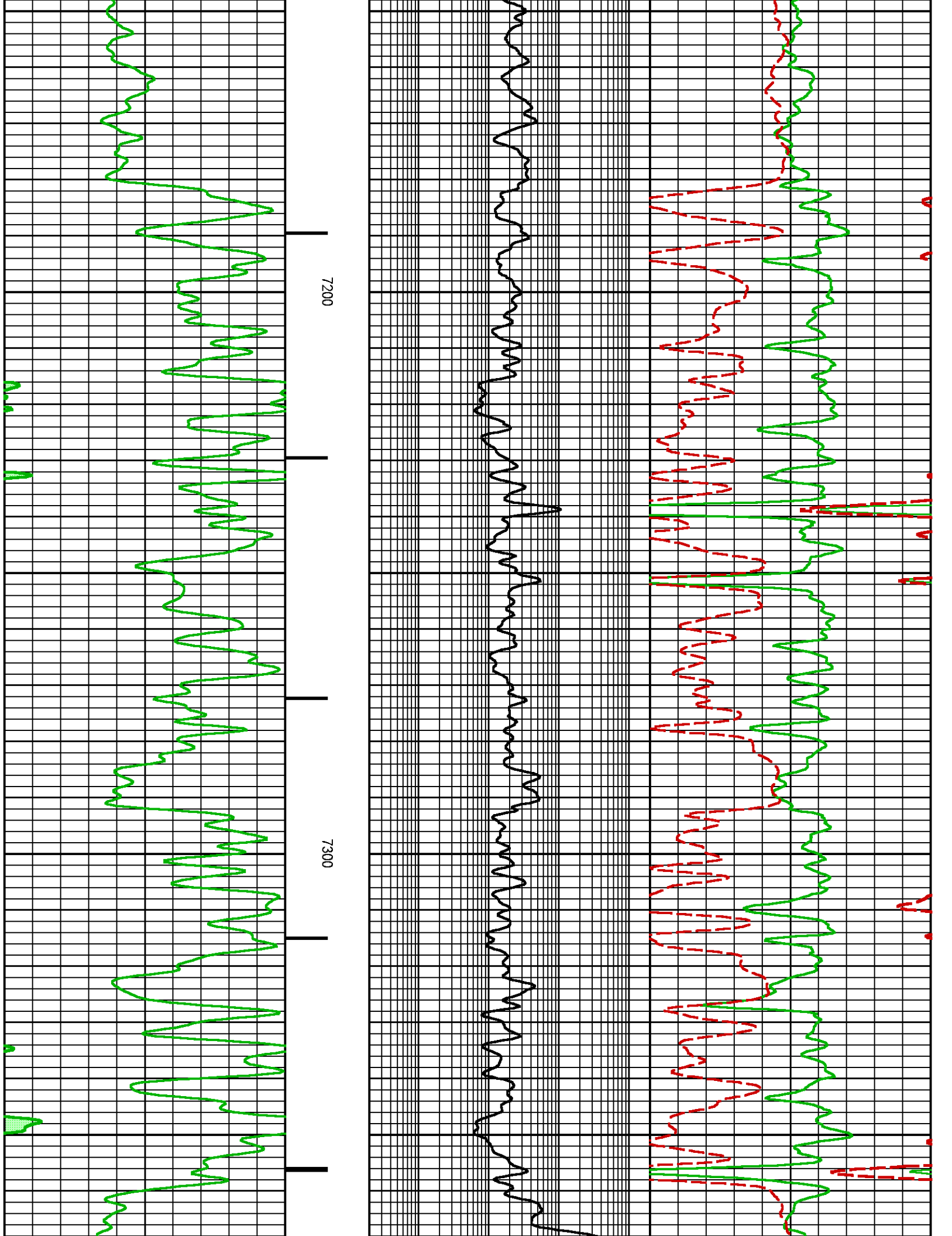


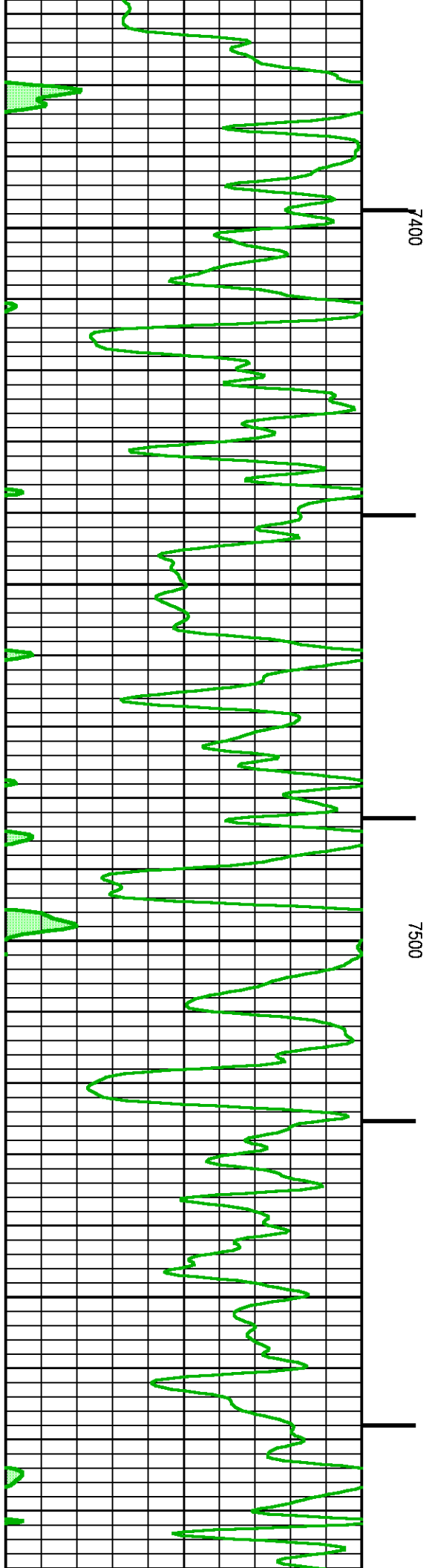
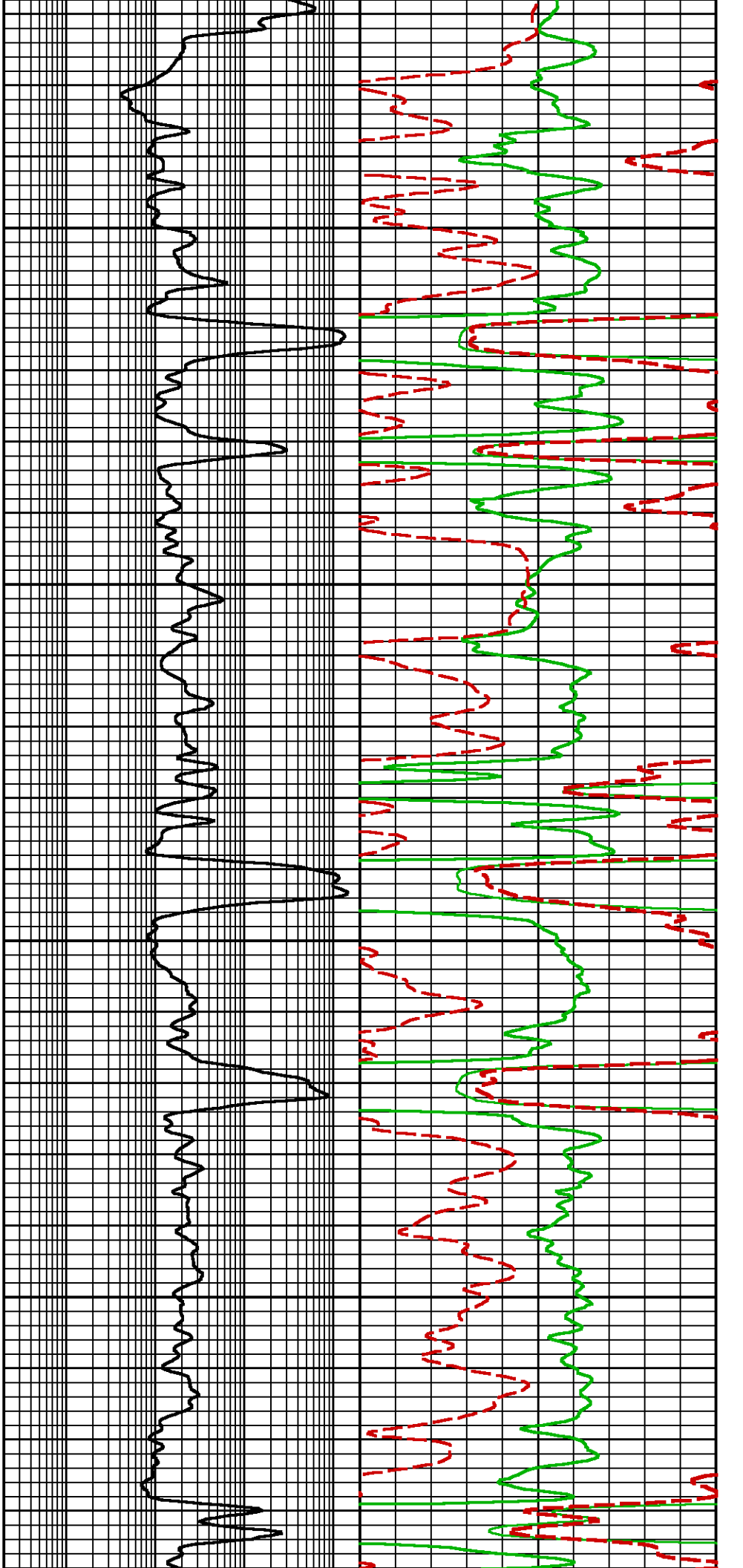


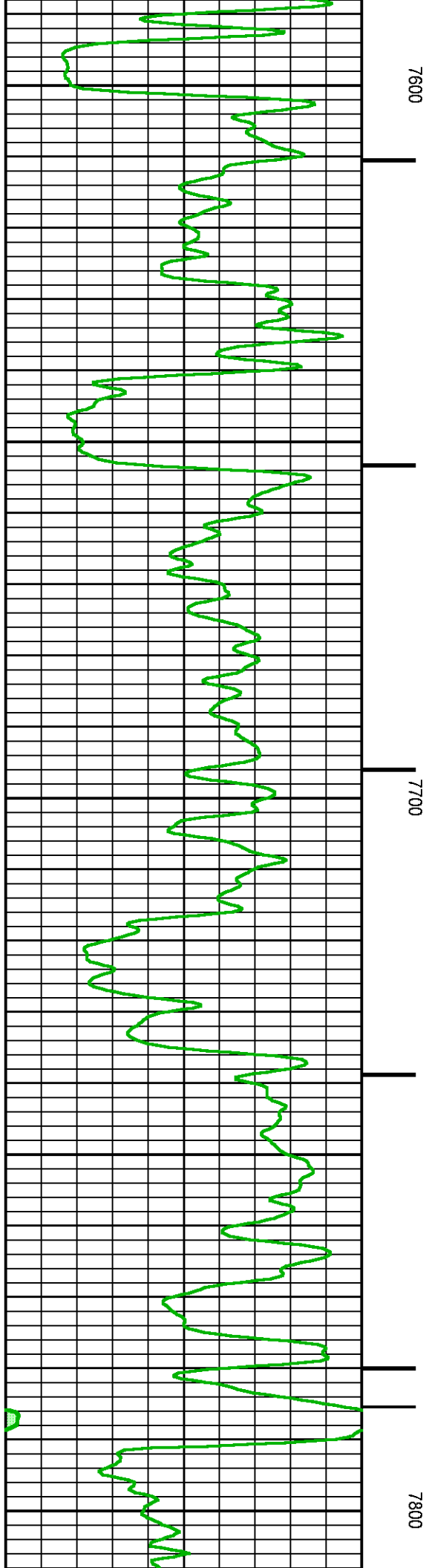
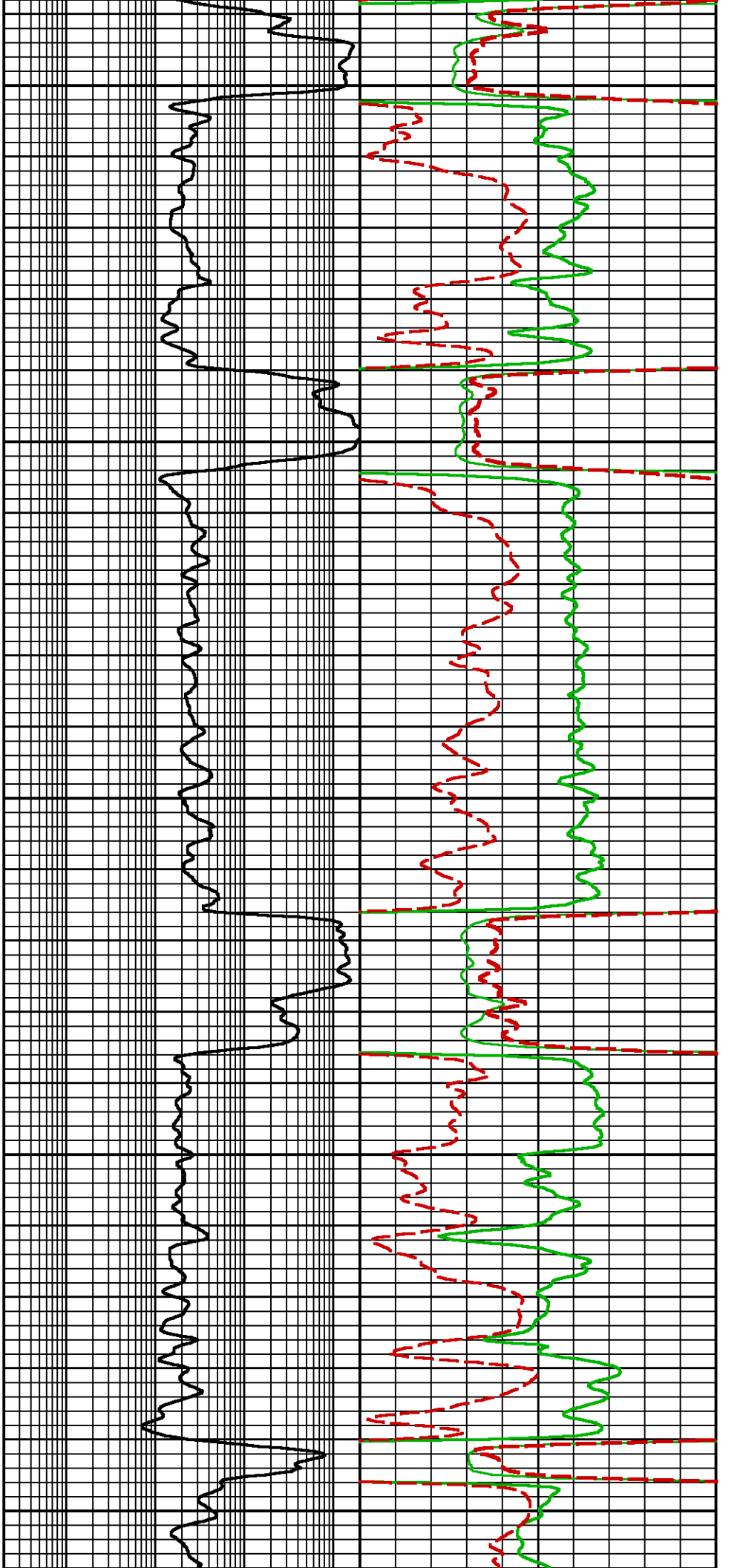


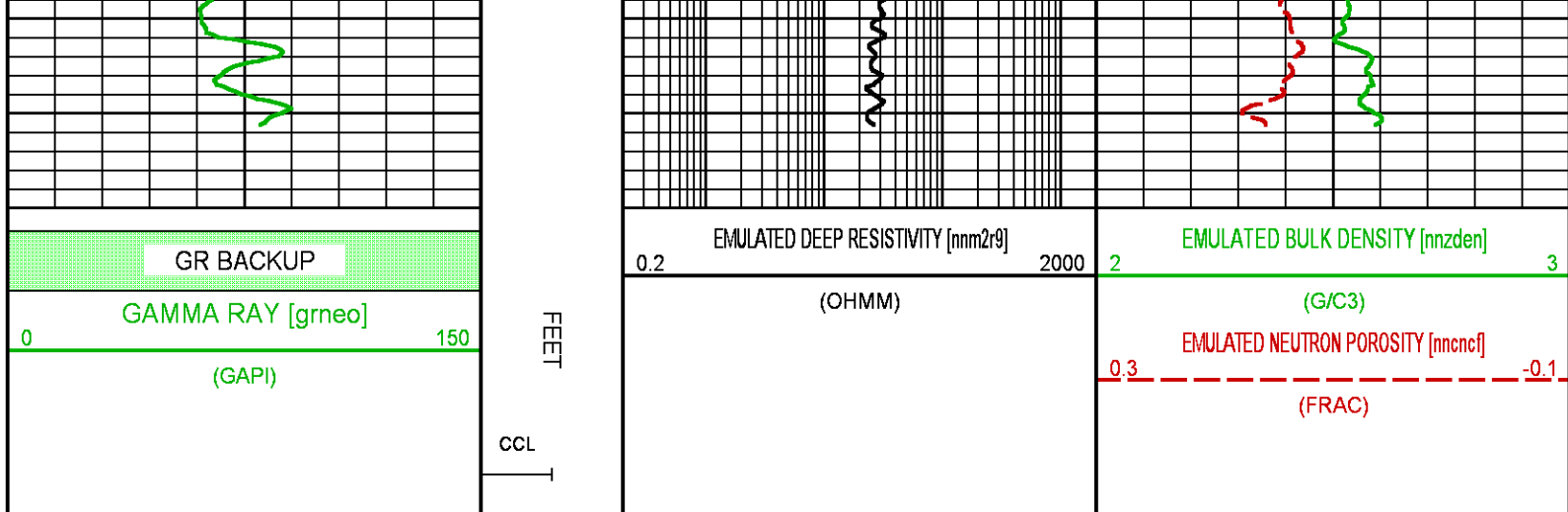



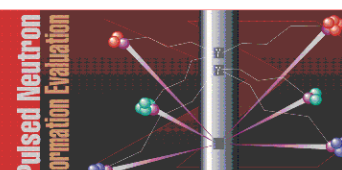










 	<b>COMPANY</b> <u>LARAMIE ENERGY LLC</u> <b>WELL</b> <u>NICHOLS 0994-24-20W</u> <b>FIELD</b> <u>VEGA</u> <b>COUNTY</b> <u>MESA</u> <b>STATE</b> <u>COLORADO</u>	<b>FILE NO:</b> _____ <b>API NO:</b> <u>05077104010000</u>	
	<b>LOCATION:</b> SEE REMARKS SECTION SEC <u>24</u> TWP <u>9S</u> RGE <u>94W</u>	<b>ELEVATIONS:</b> KB 7236.0 FT DF GL 7212.0 FT	
	DATE <u>26-JUN-2018</u>		