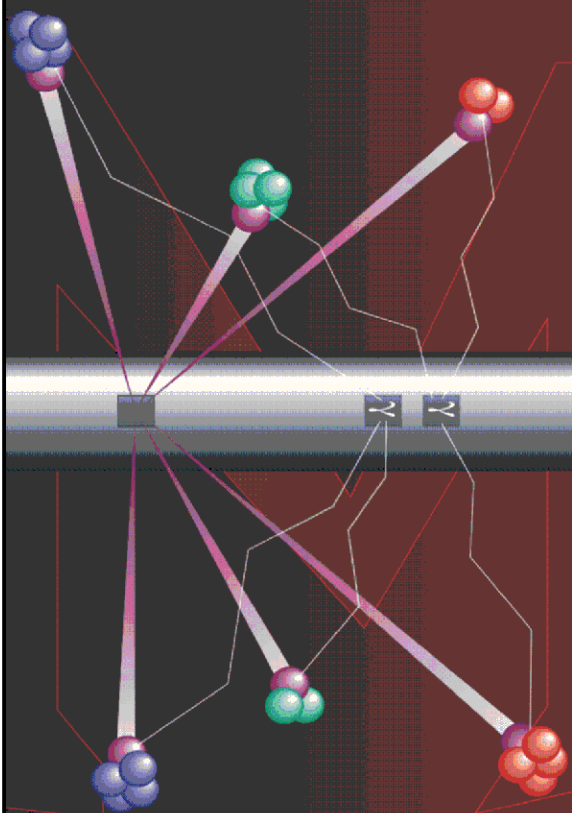


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Pulsed Neutron Formation Evaluation



NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY LLC

WELL NICHOLS FEDERAL 0994-24-21E

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 25-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>13-JUL-2018</u>
FIELD DATA	LOCATION: <u>GRAND JCT.</u>	ENGINEER: <u>M.BAUKA/US136074</u>	DATE: <u>25-JUN-2018</u>
FROM	TO		
<u>2213 FT</u>	<u>8021 FT</u>		

REMARKS

LOCATION:
SHL: 2332' FNL & 2789' FWL
BHL: 212' FSL & 1538' FEL

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 FEDERAL 0994-24-21E (G-SAND)

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

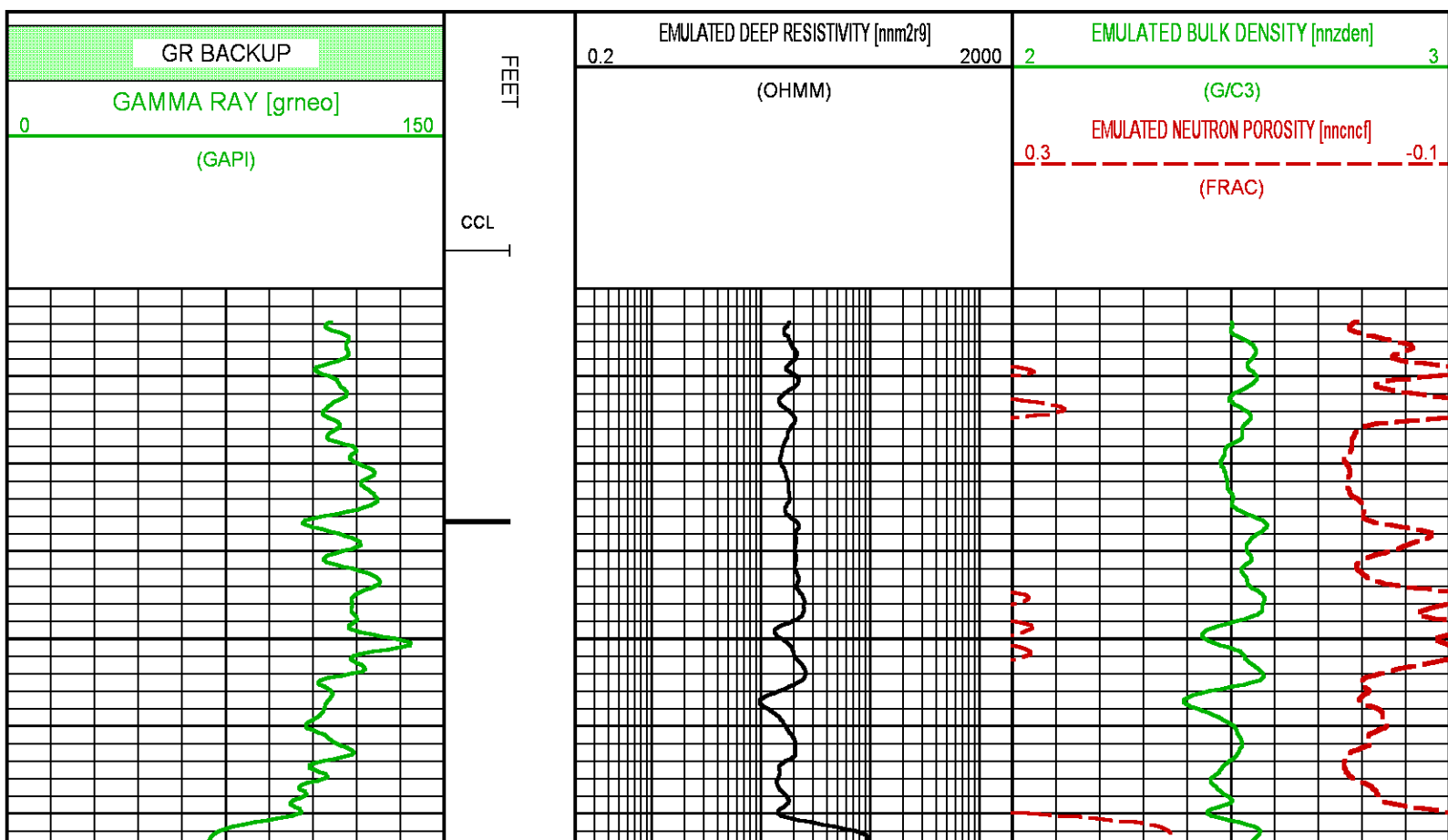
Plotted: Fri Jul 13 12:15:21 2018

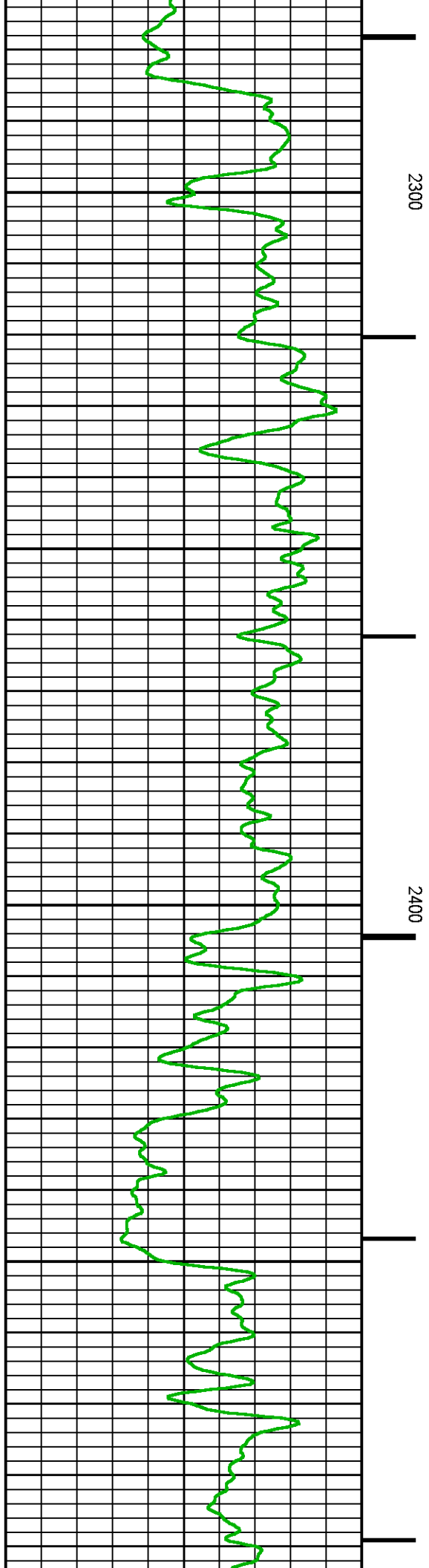
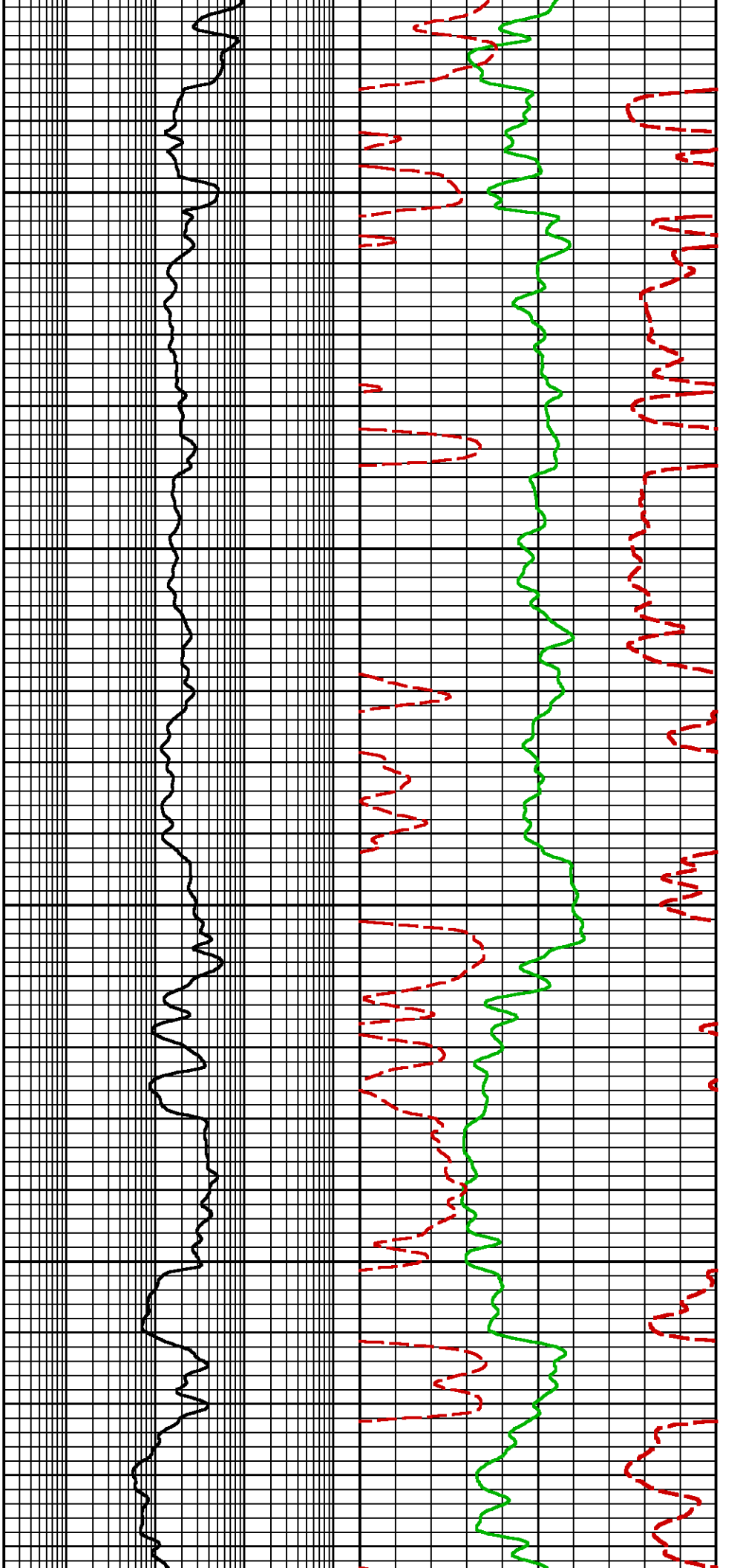
CURVE MEASURE POINT OFFSET

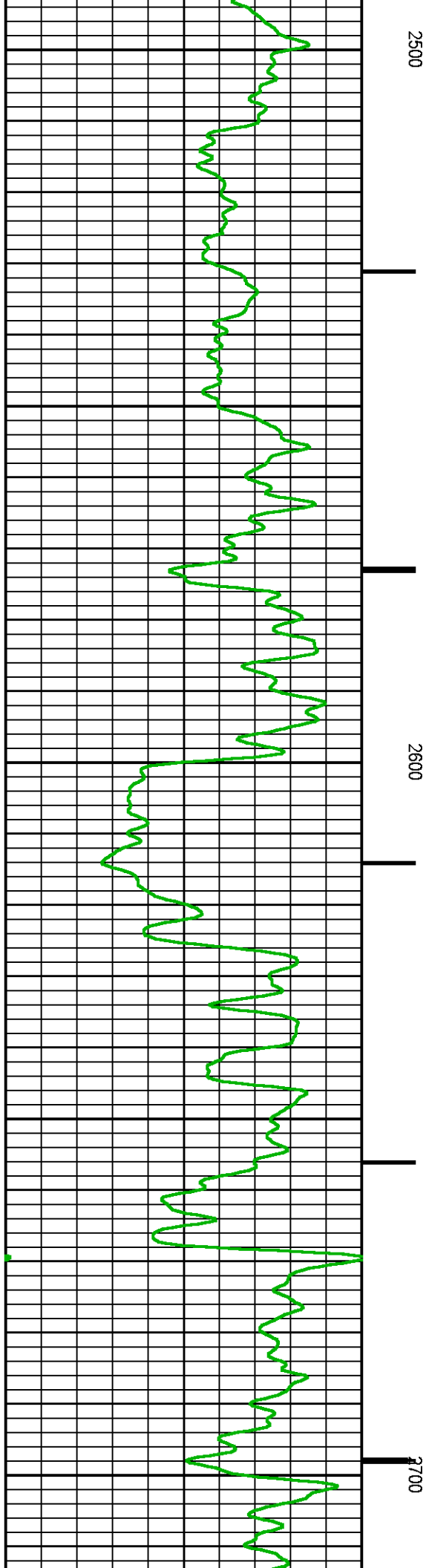
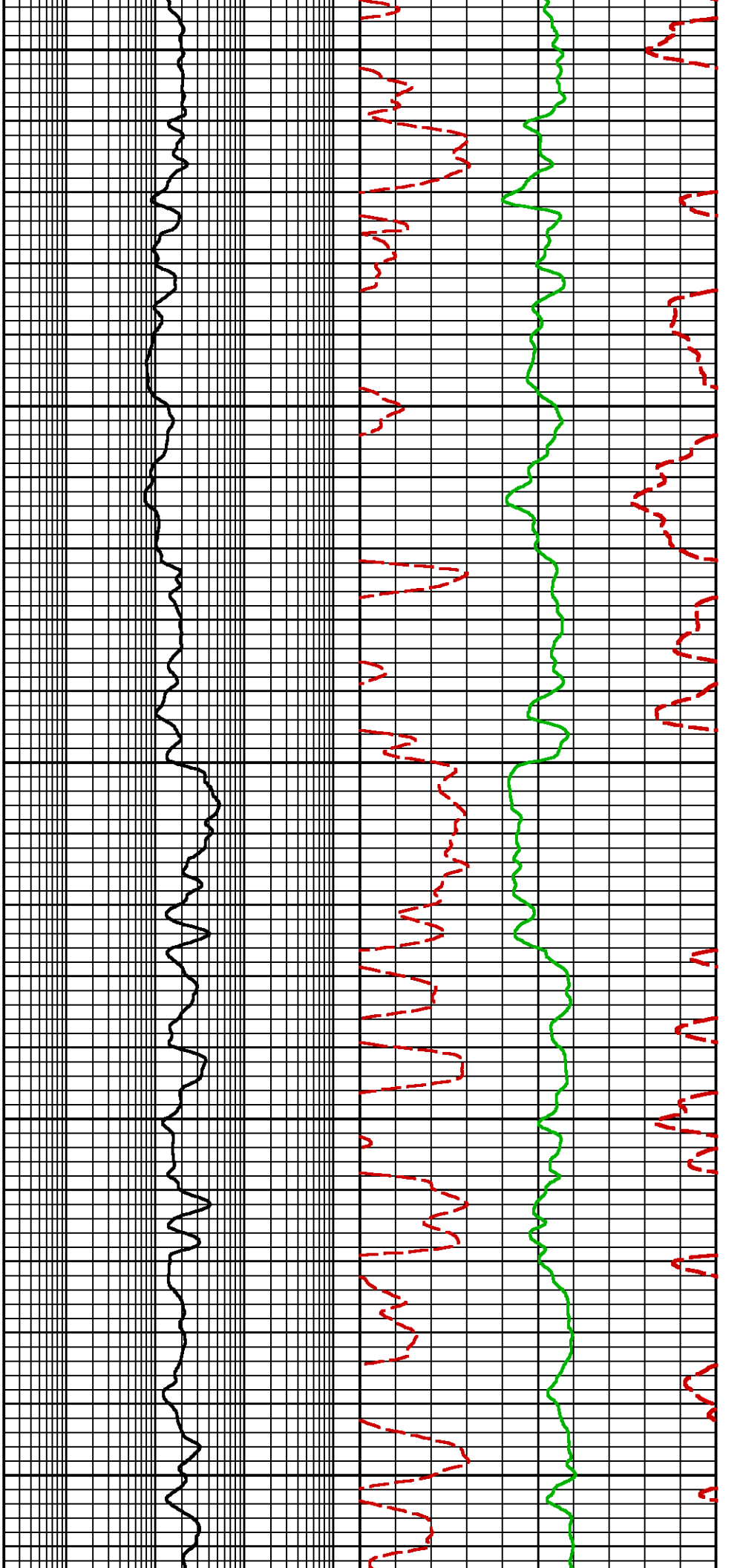
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNCf	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

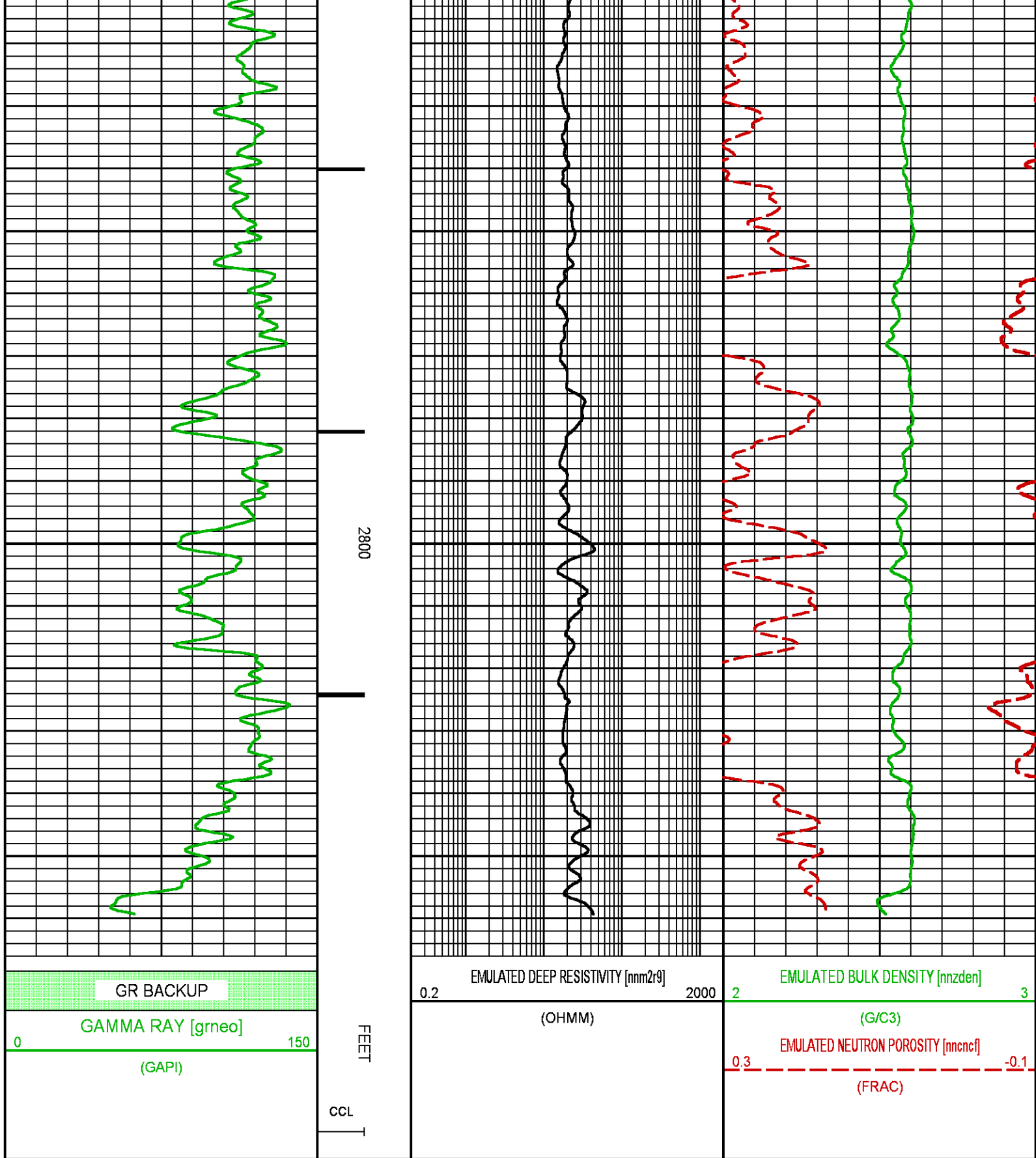
Project : NA
User : kotoale
Presentation : BHI1F65XZ1:d:\Ape_Projects\LARAMIE_NICHOLS_FEDERAL_0994_24_21E_NEO\
 NEO_PRESENTATION_LARAMIE_G-Sand.pdf [5"/100' Scale]
Plot Interval : 2210 - 2865 Feet

Data File 1 : F1 : BHI1F65XZ1:D:\Ape_Projects\LARAMIE_NICHOLS_FEDERAL_0994_24_21E_NEO\Merged_Set_Final.xtf
Created On : N/A
Company : LARAMIE ENERGY LLC
Well : NICHOLS FEDERAL 0994-24-21E
Field : VEGA
File Interval : 2213.75 - 8021.75 Feet
OCT : NA









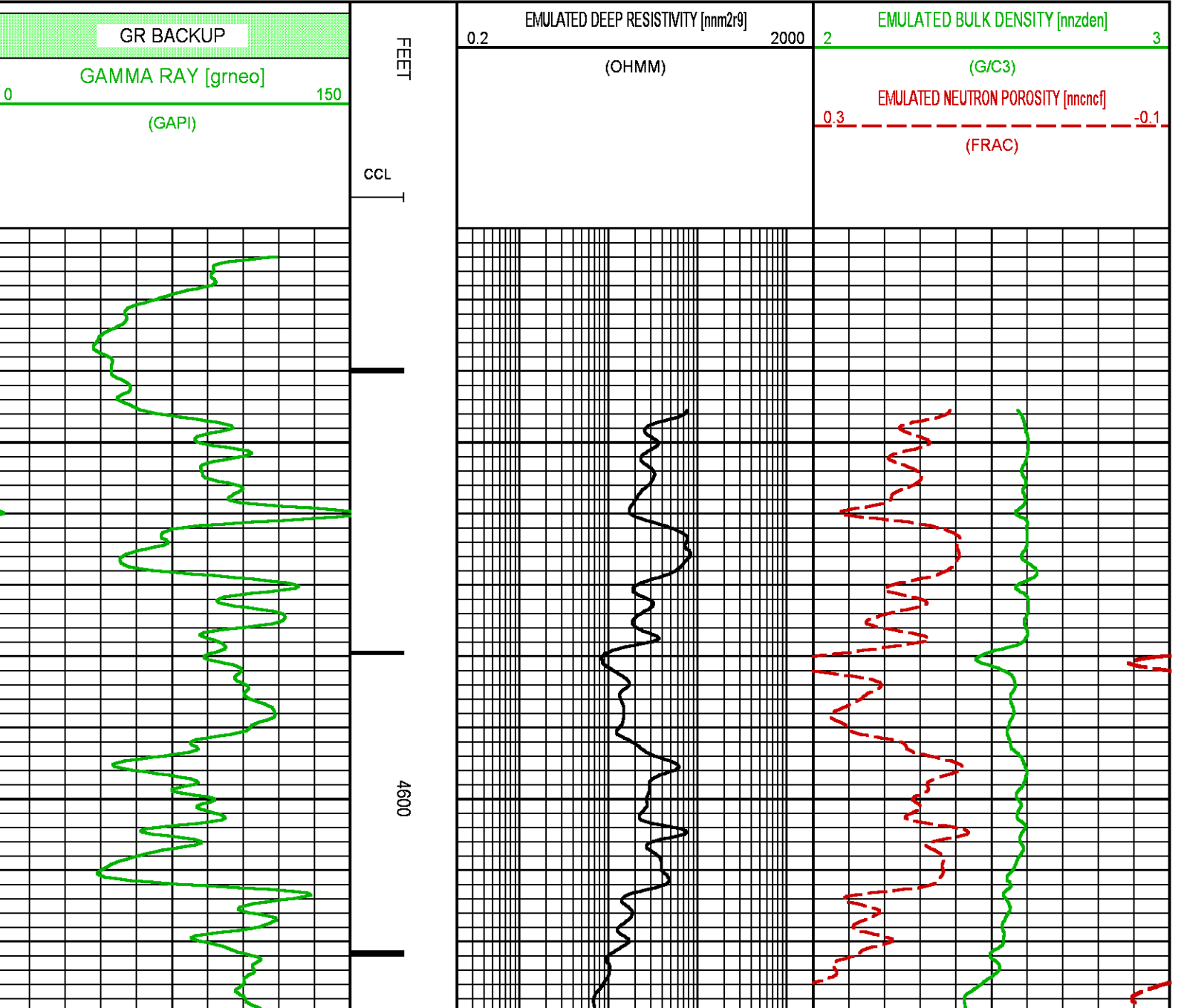
NEO RESULTS FOR NICHOLS FEDERAL 0994-24-21E (MAIN)

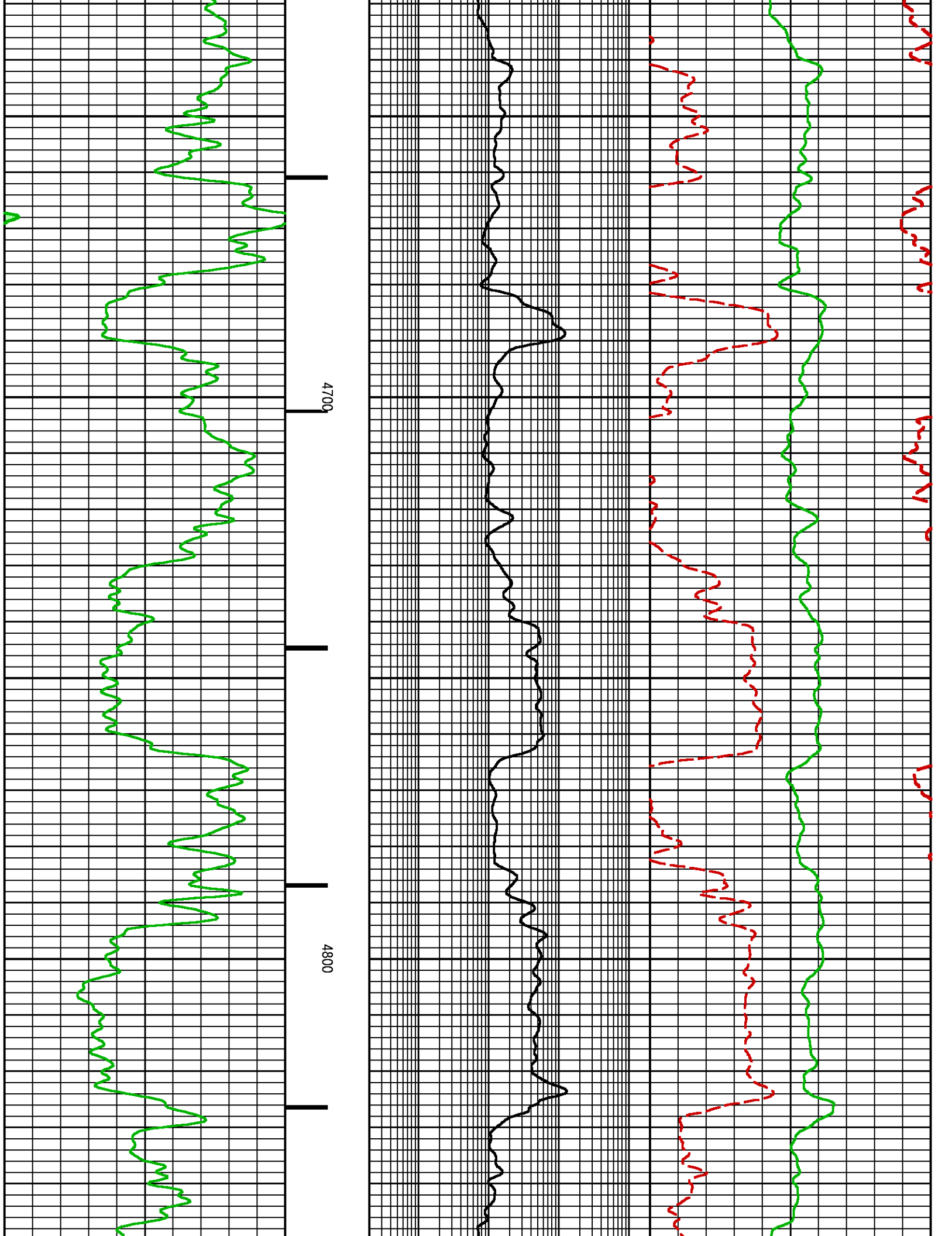
Plotted: Fri Jul 13 12:11:17 2018

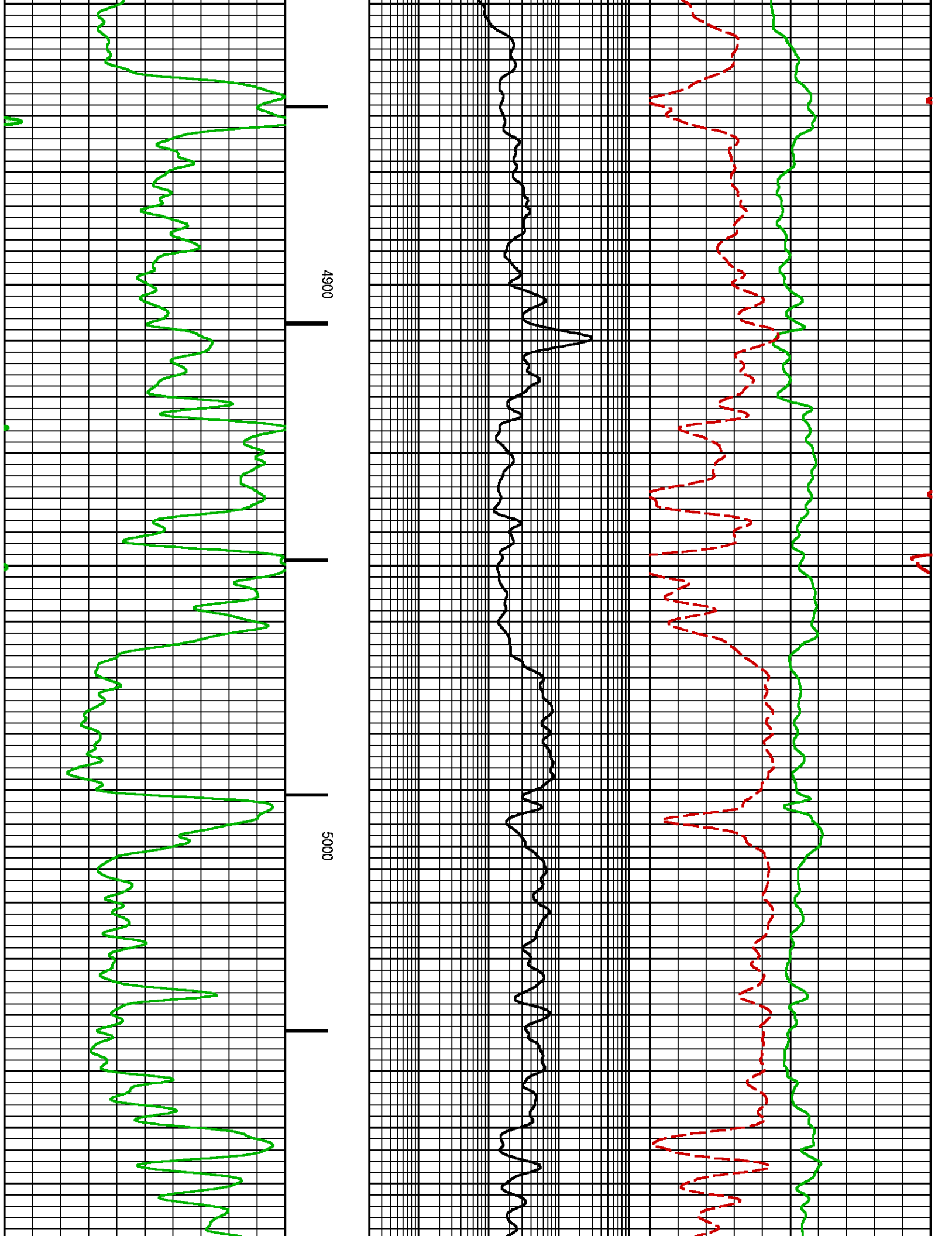
CURVE MEASURE POINT OFFSET

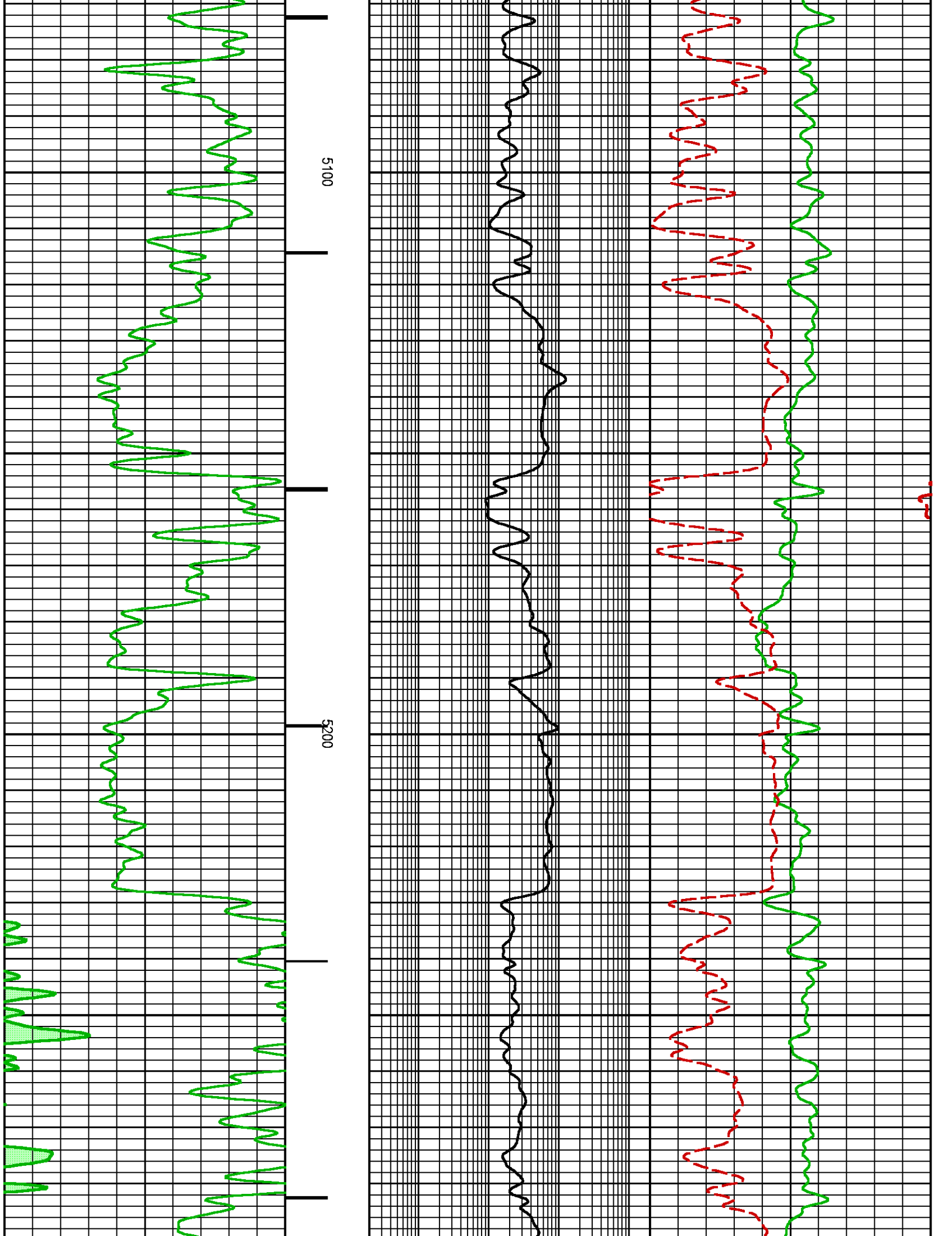
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNCf	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

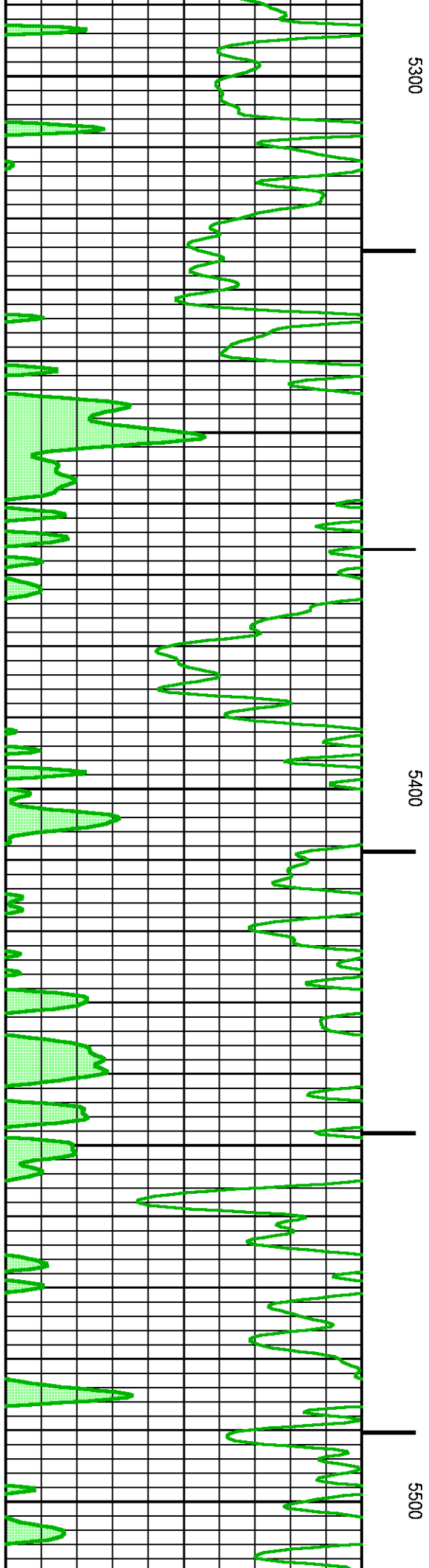
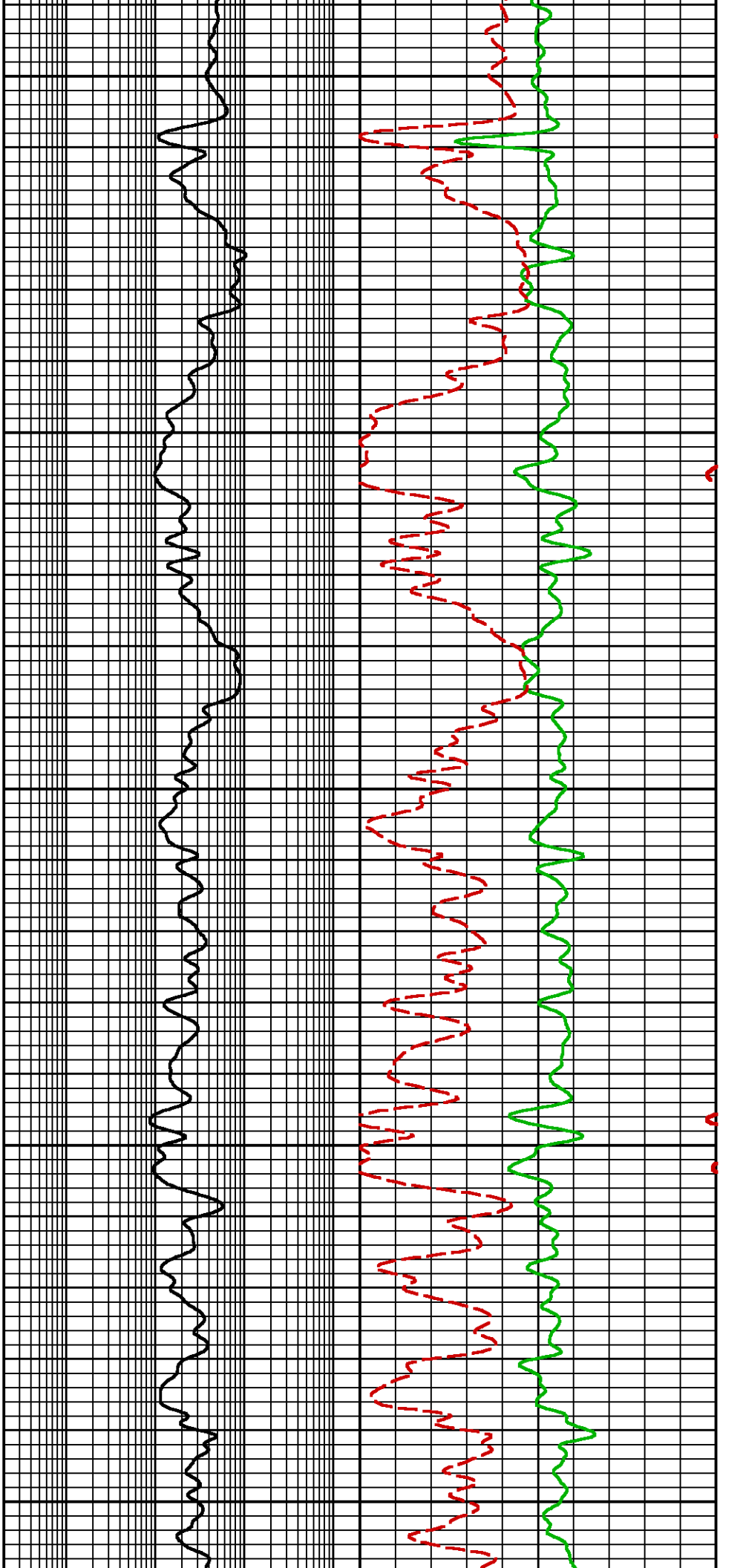
Project : NA
User : kotoale
Presentation : BHI1F65XZ1:d:\Ape_Projects\LARAMIE_NICHOLS_FEDERAL_0994_24_21E_NEO\NEO_PRESENTATION_LARAMIE_MAIN.pdf [5"/100' Scale]
Plot Interval : 4520 - 8027 Feet
Data File 1 : F1 : BHI1F65XZ1:D:\Ape_Projects\LARAMIE_NICHOLS_FEDERAL_0994_24_21E_NEO\Merged_Set_Final.xtf
Created On : N/A
Company : LARAMIE ENERGY LLC
Well : NICHOLS FEDERAL 0994-24-21E
Field : VEGA
File Interval : 2213.75 - 8021.75 Feet
OCT : NA

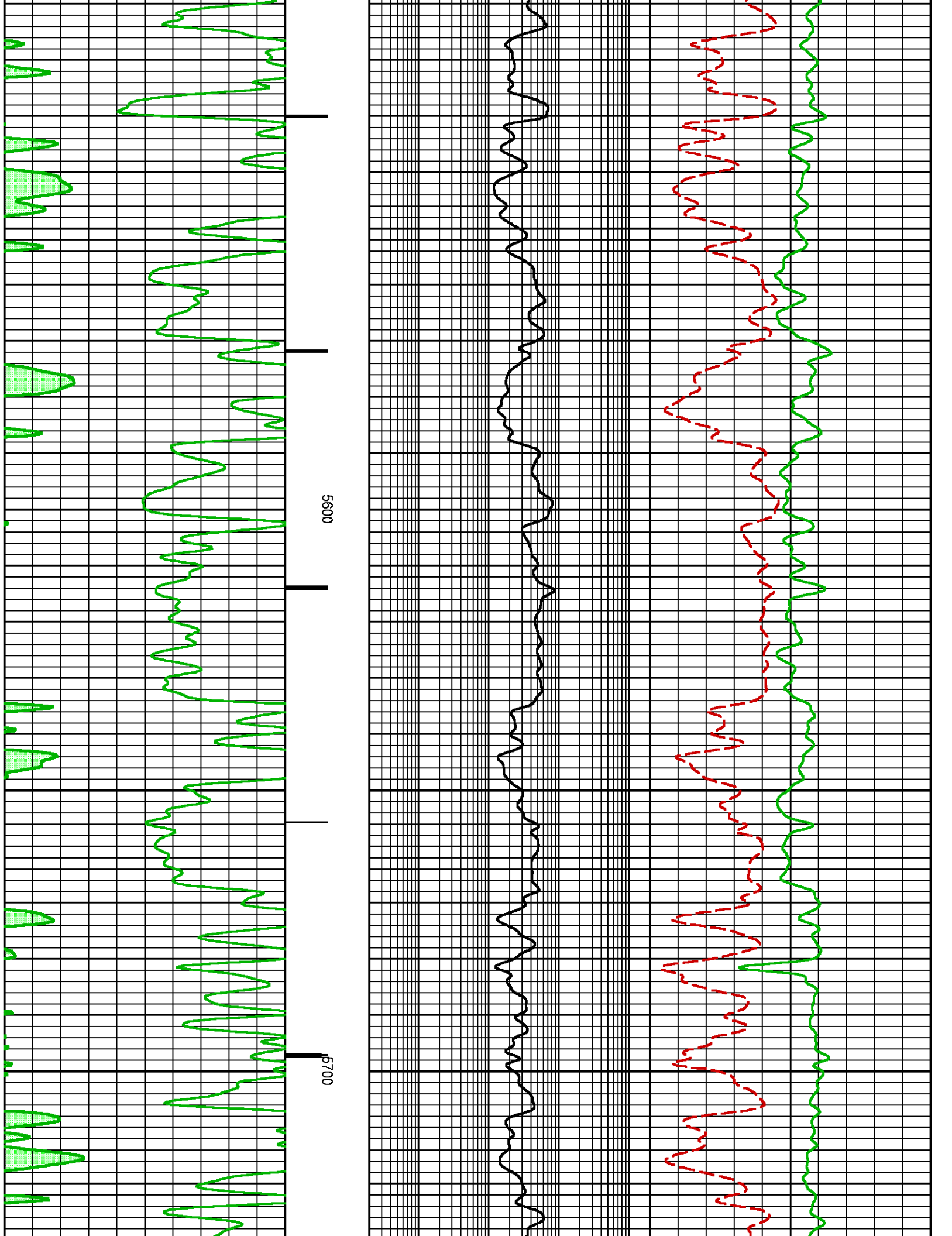


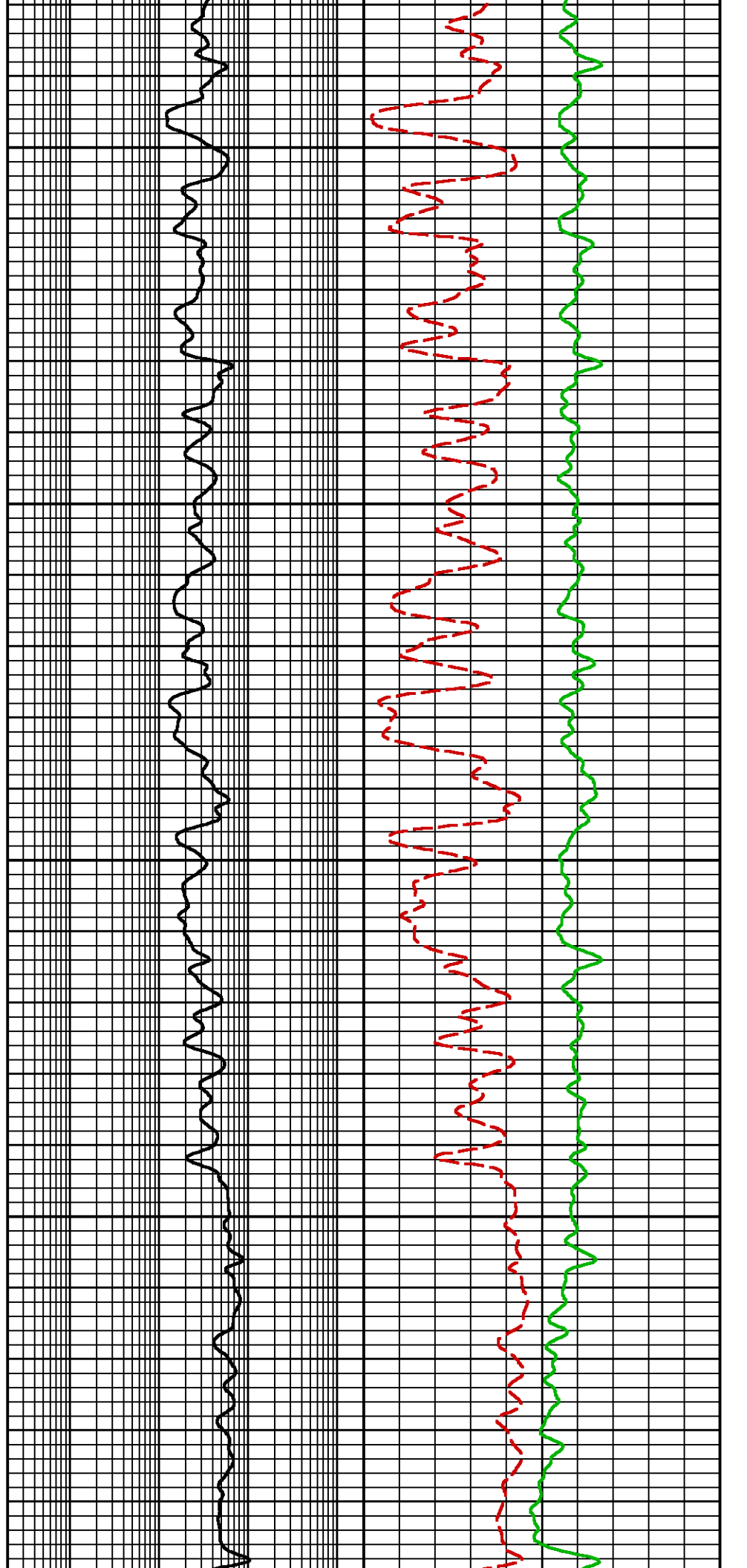
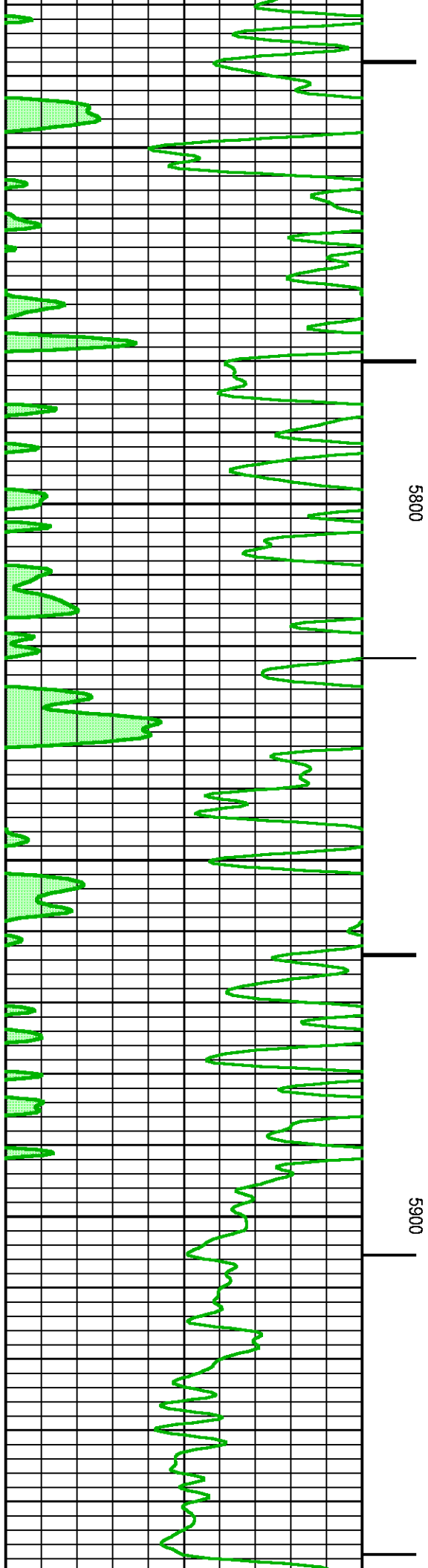


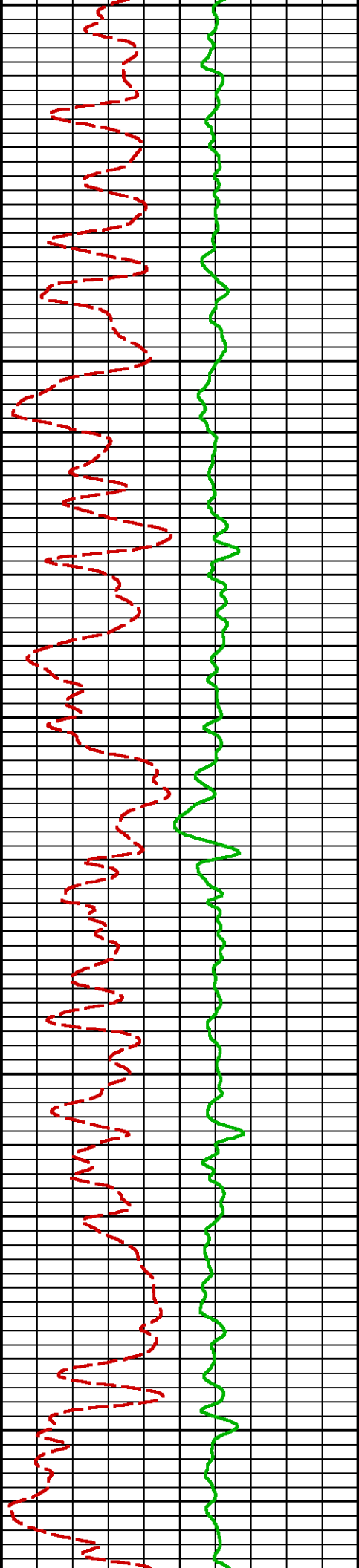
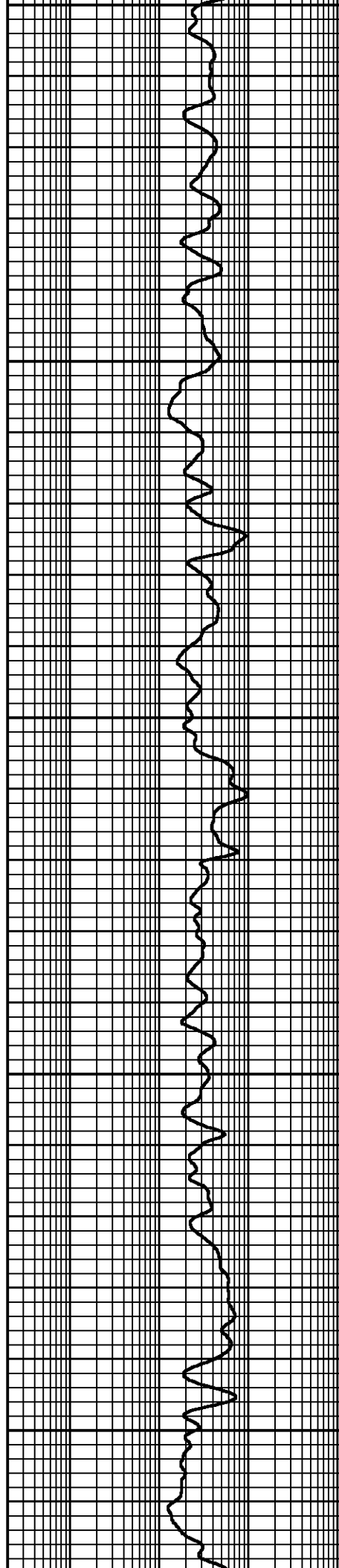
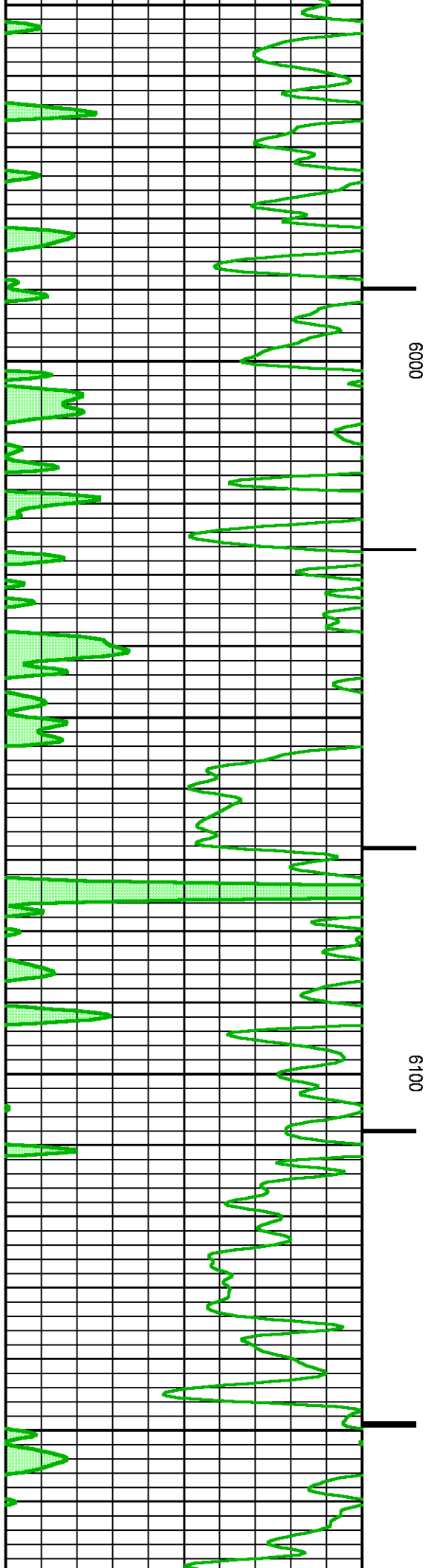


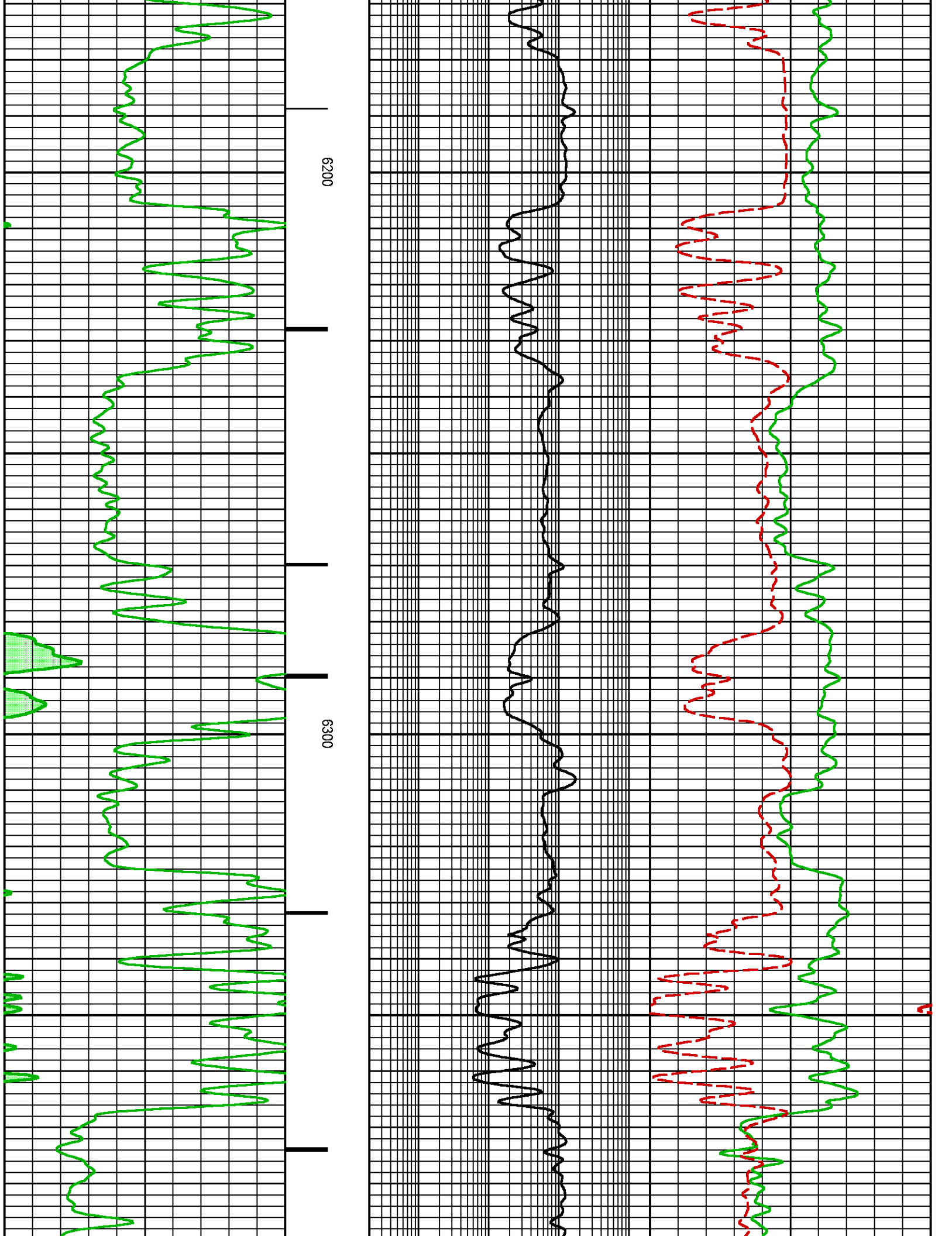


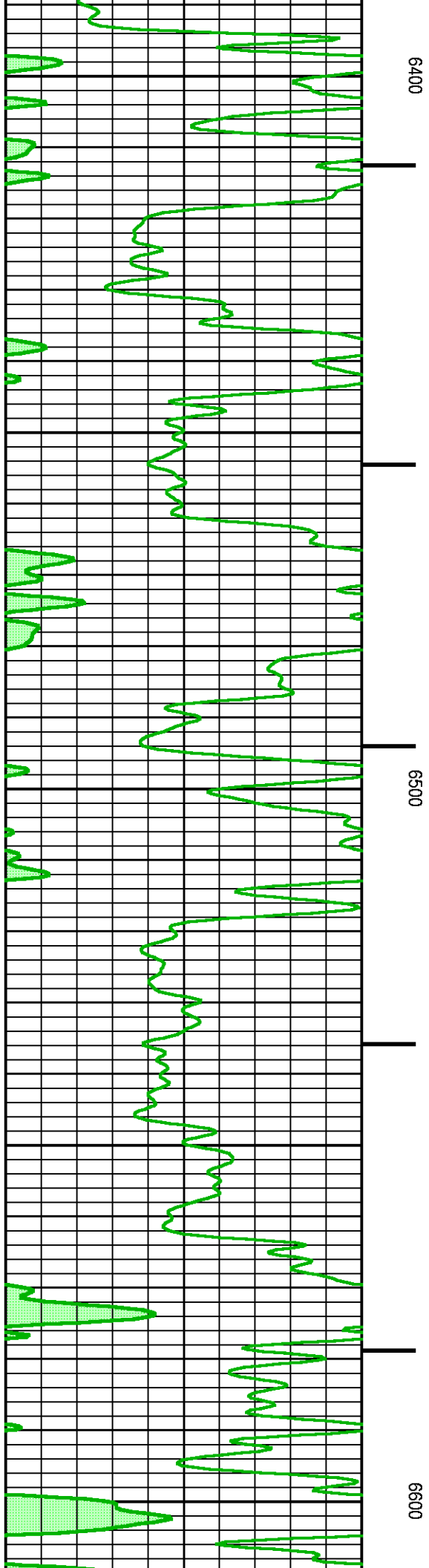
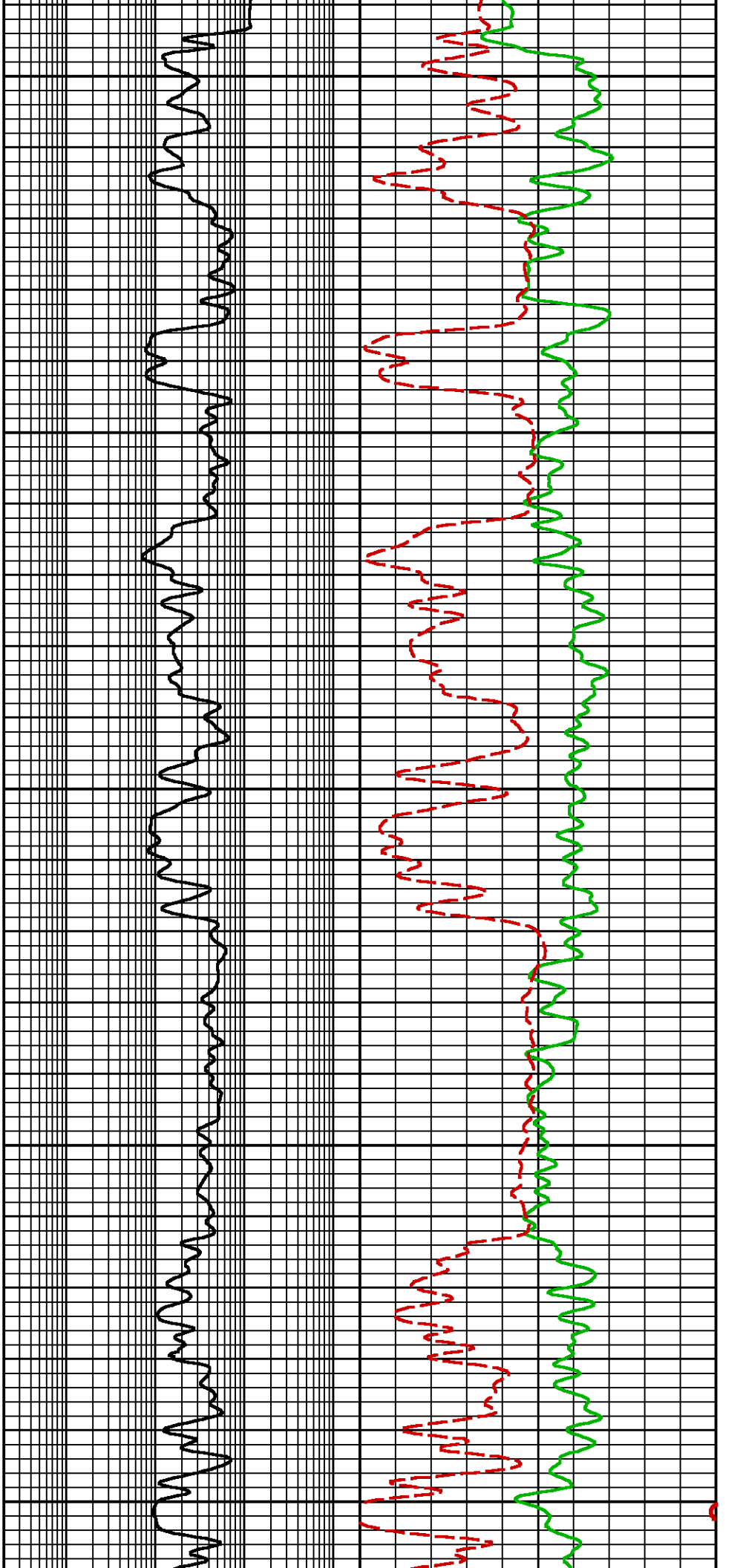


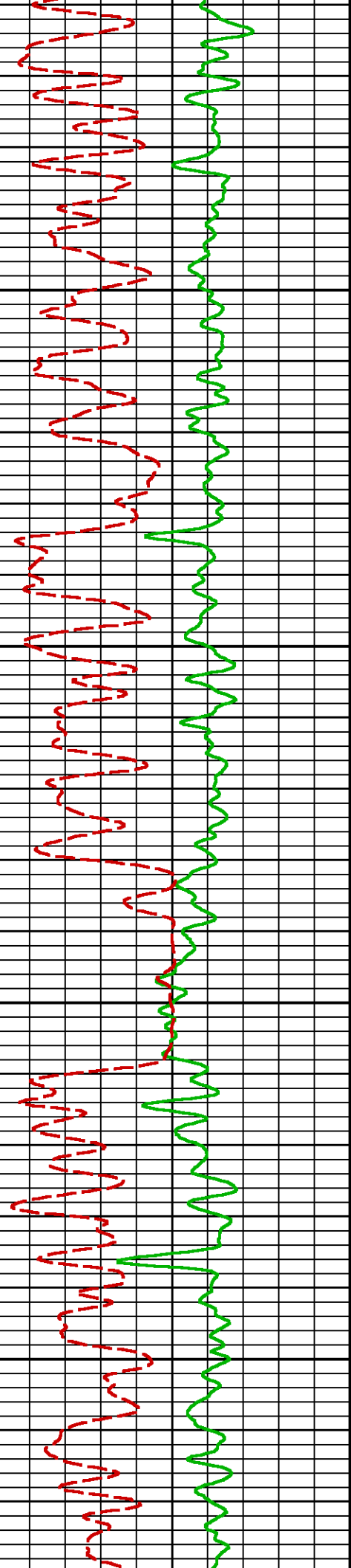
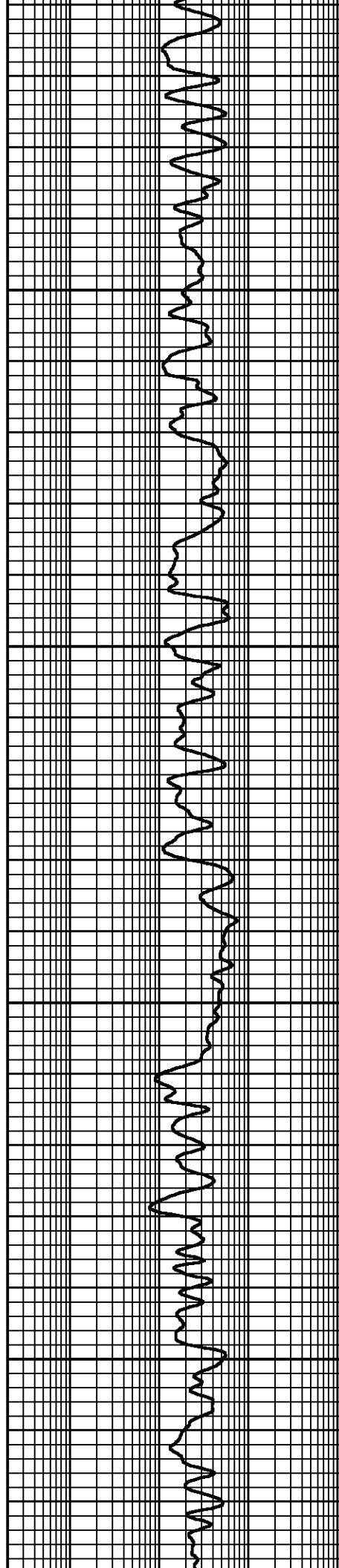
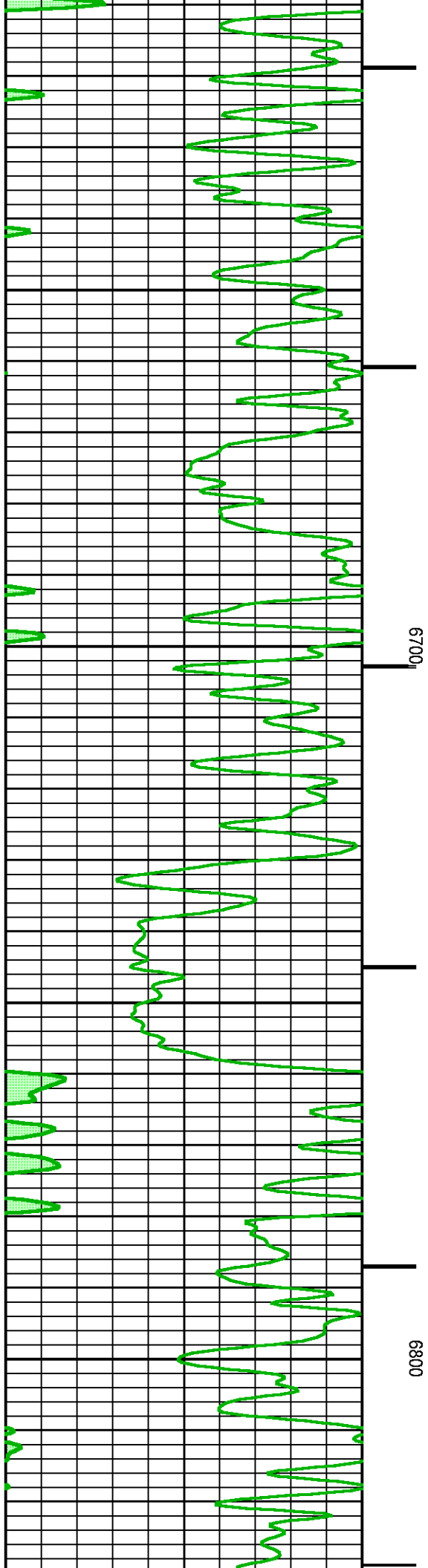


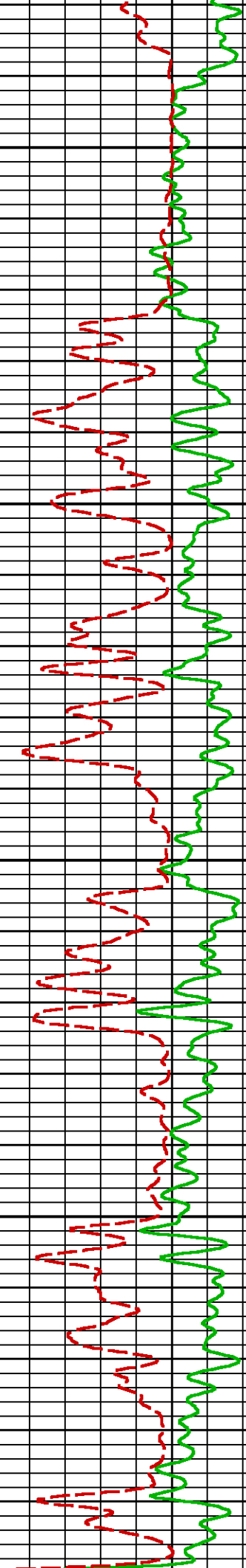
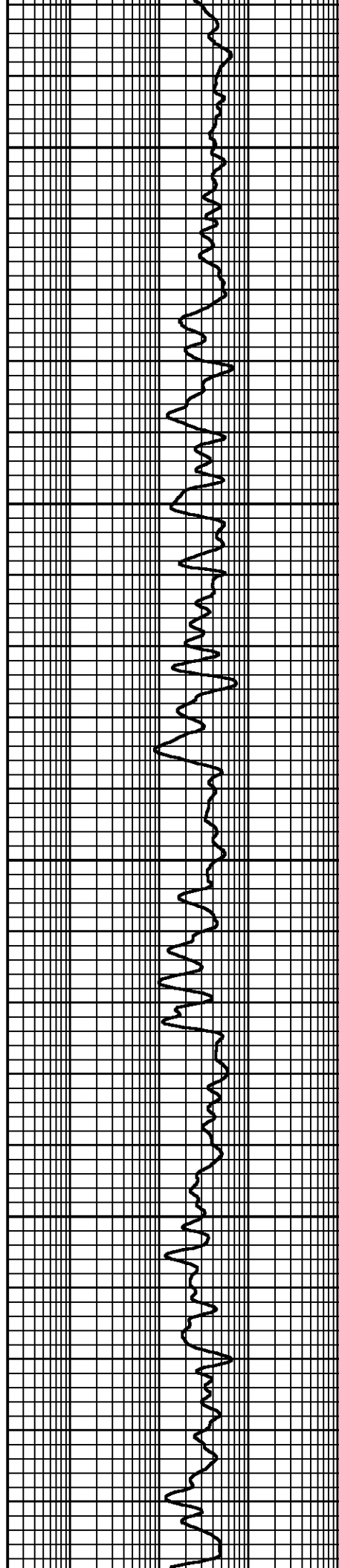
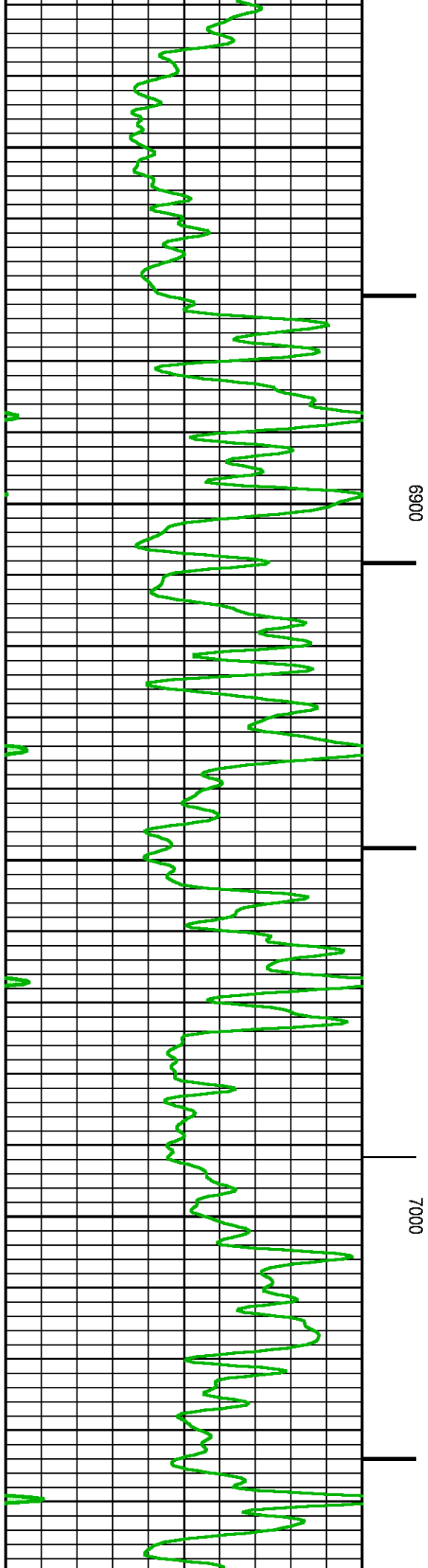


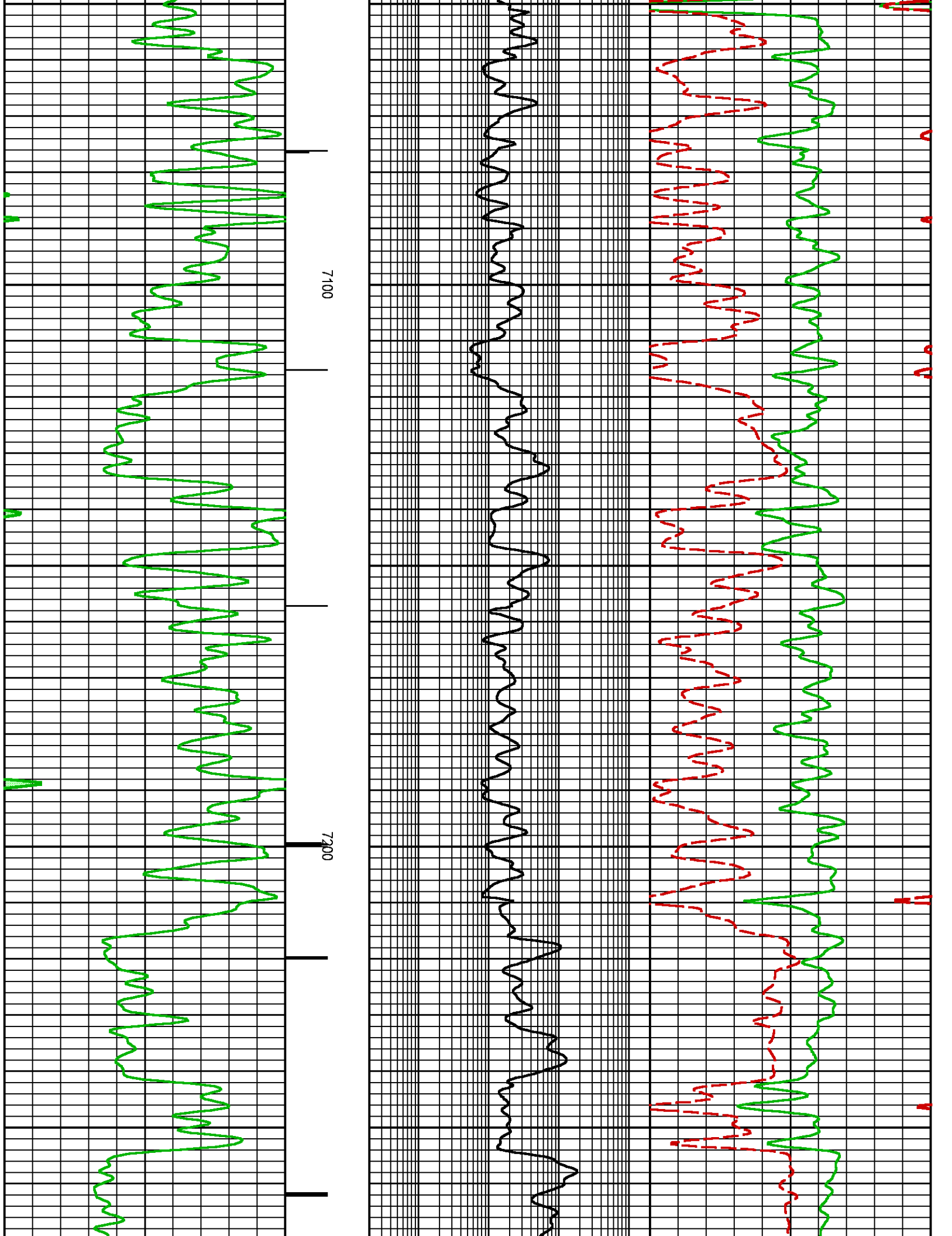


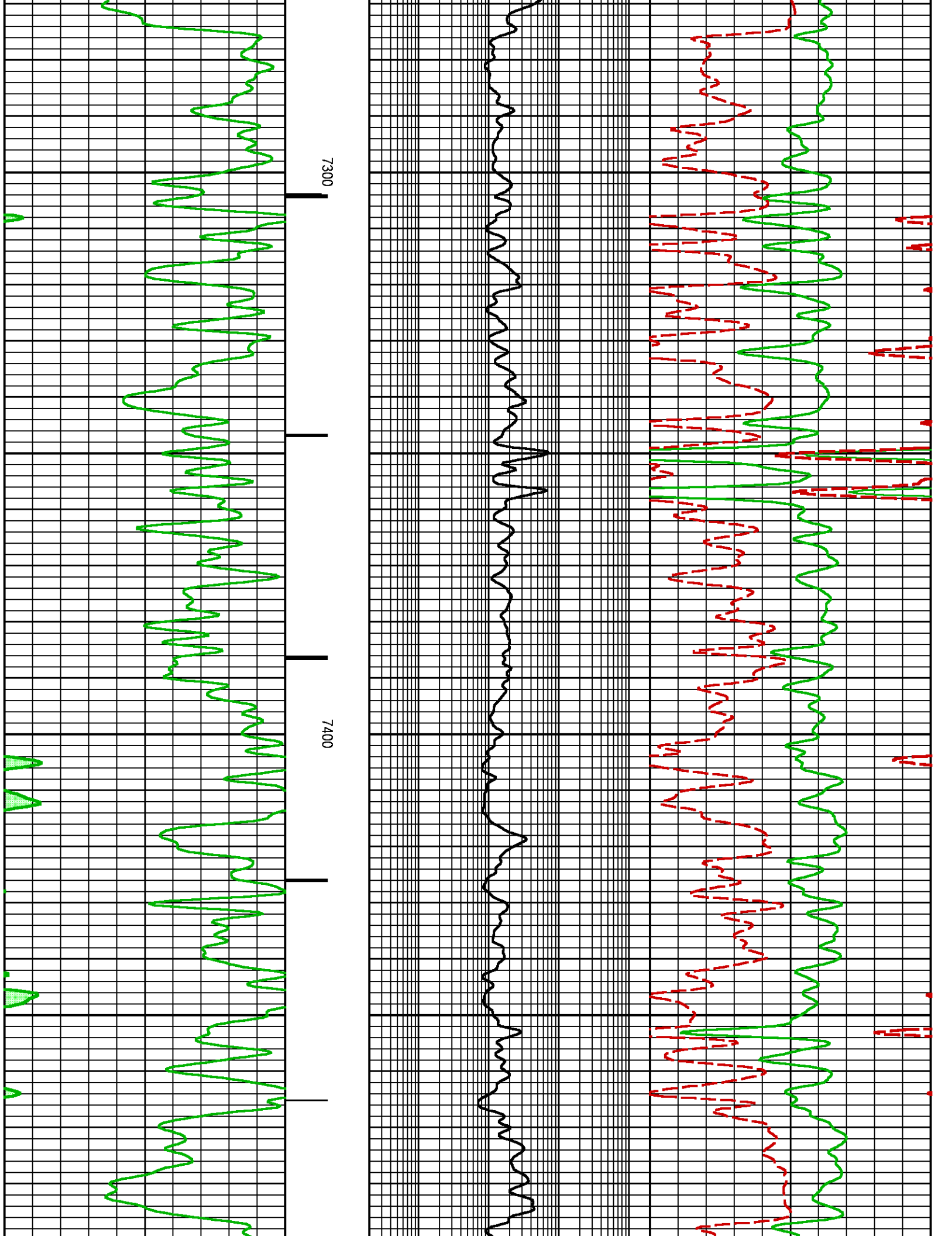


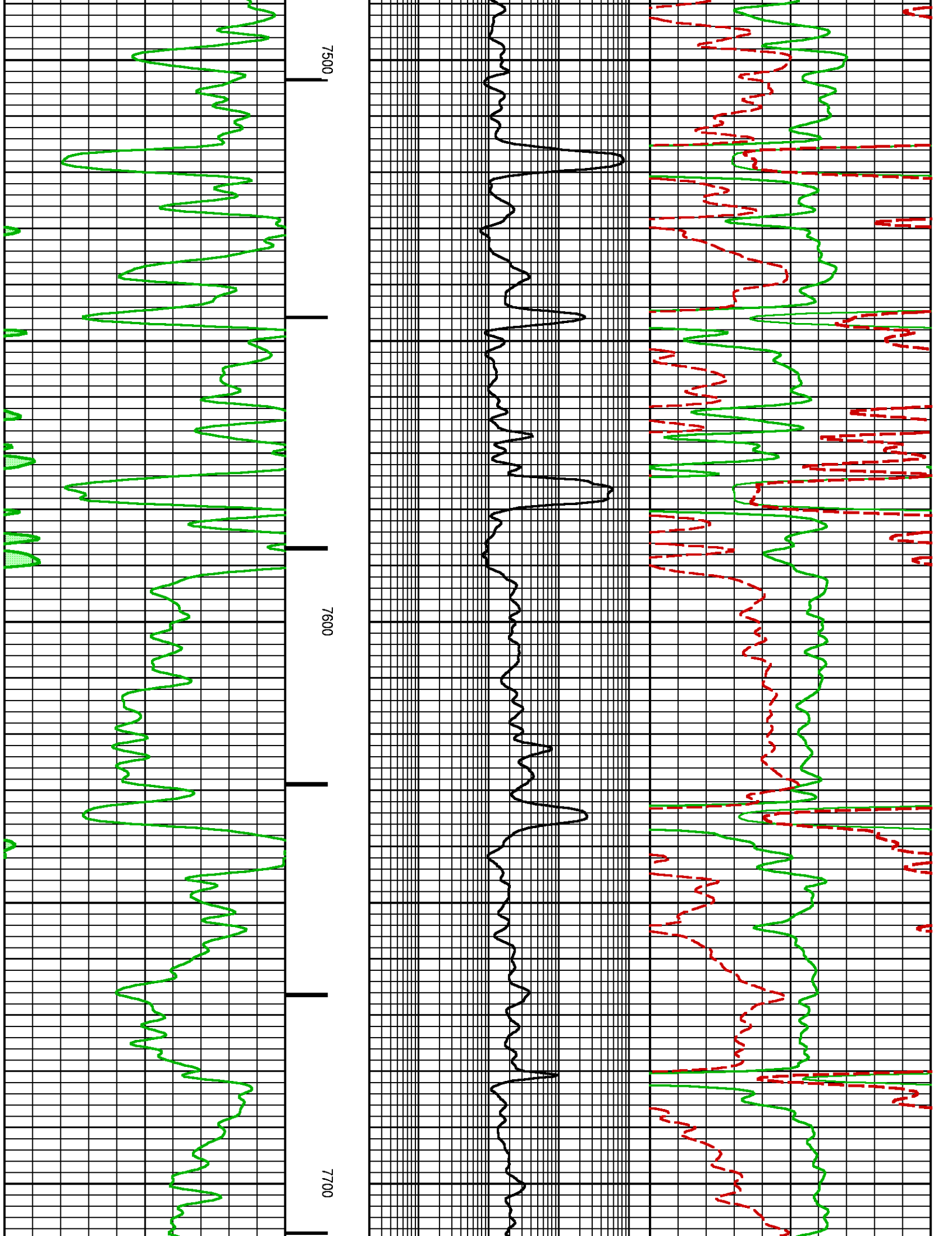


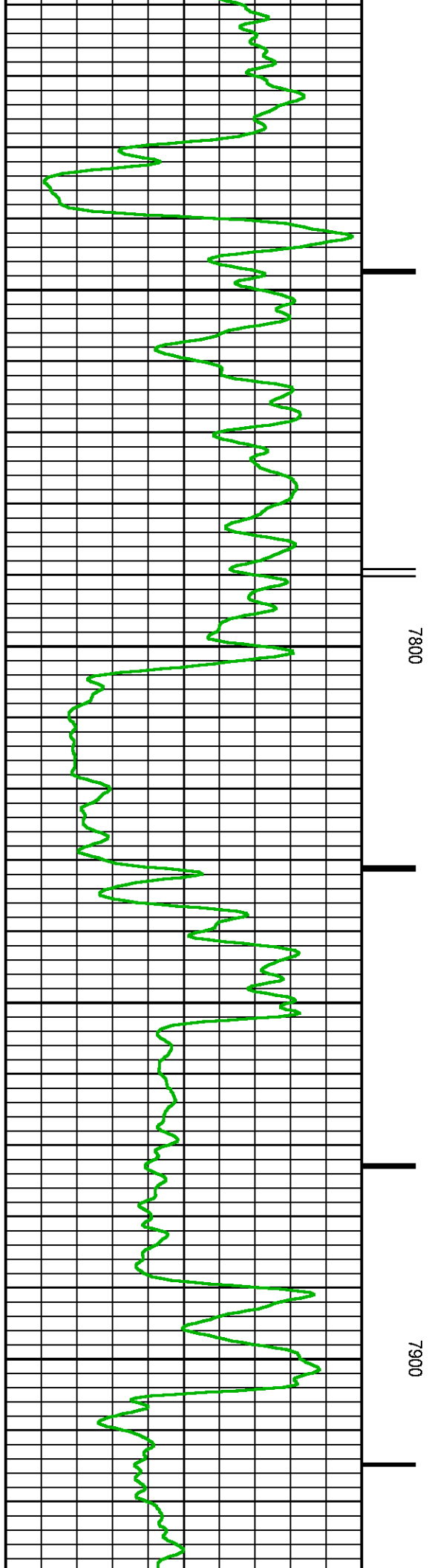
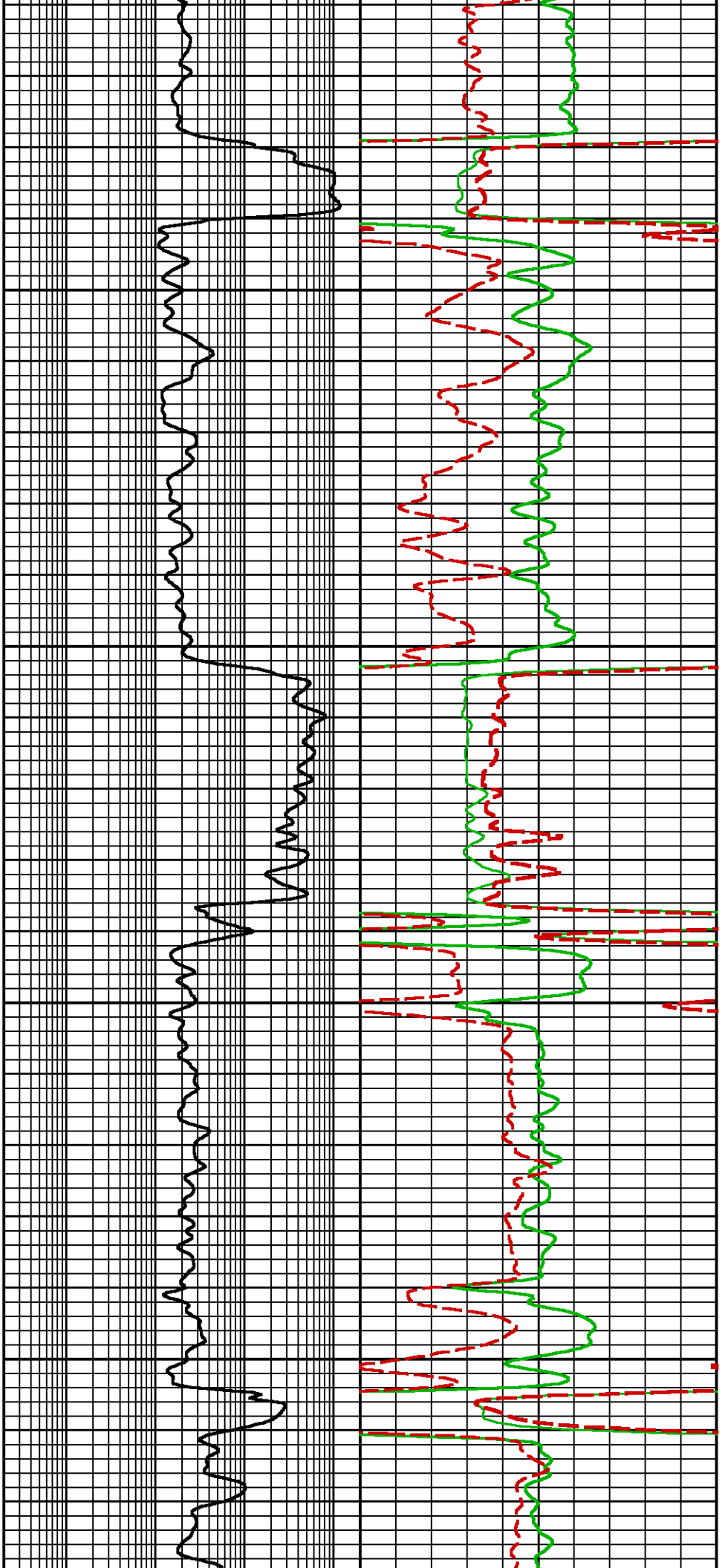


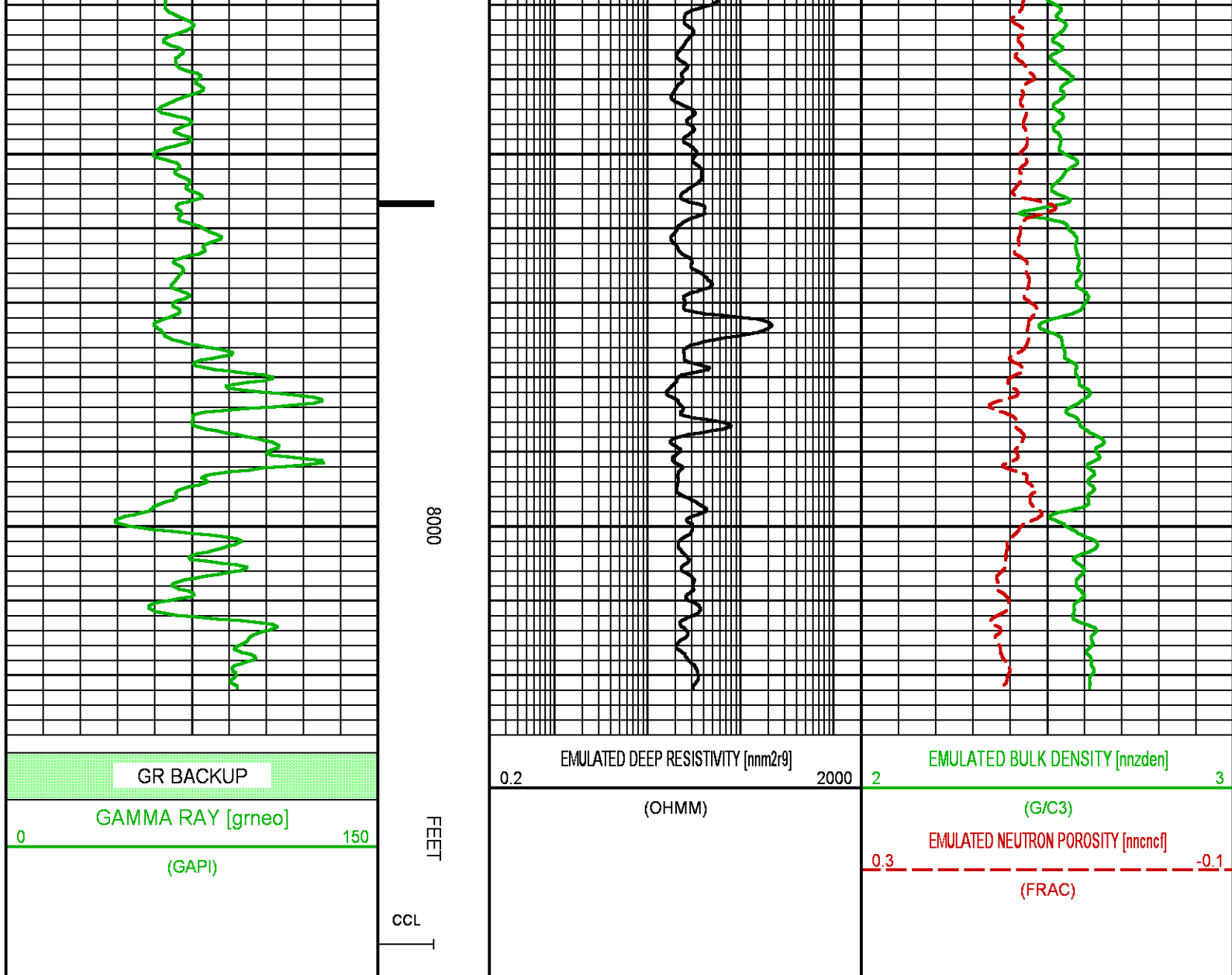












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COMPANY

LARAMIE ENERGY LLC

WELL

NICHOLS FEDERAL 0994-24-21E

FIELD

VEGA

COUNTY

MESA

STATE COLORADO

FILE NO:

API NO:

05077103890000

LOCATION:

SEE REMARKS SECTION

ELEVATIONS:

KB 7236.0 FT

DF

GL 7212.0 FT

SEC 24 TWP 9S RGE 94W

DATE

25-JUN-2018

Pulsed Neutron
Formation Evaluation

