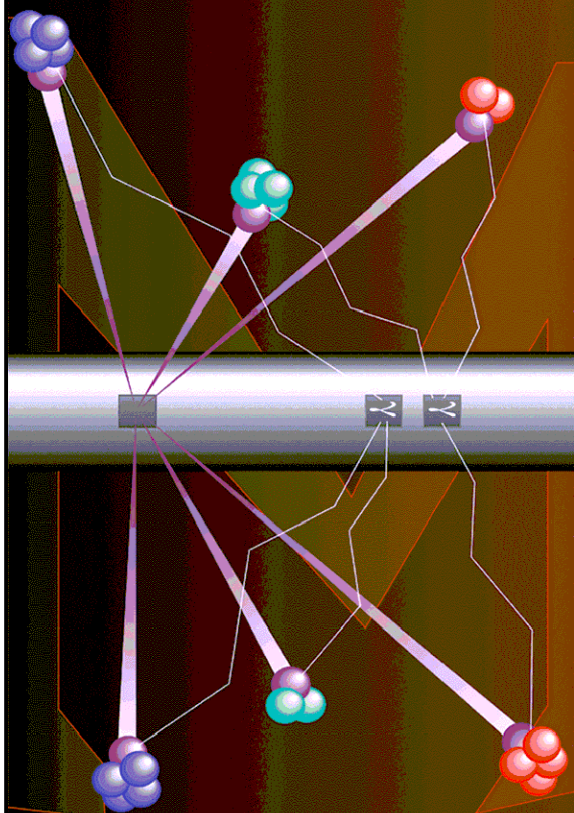


Pulsed Neutron Formation Evaluation



**BAKER
HUGHES**
a GE company



NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY

WELL BRUTON 30-19E

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS SECTION

SEC 30 TWP 9S RGE 93W

ELEVATIONS:

KB 7673.0 FT DF 30 FT GL 7643.0 FT

DATE 03-APR-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>05-APR-2018</u>
FIELD DATA	LOCATION: <u>GRAND JCT.</u>	ENGINEER: <u>T. NEWELL/US133066</u>	DATE: <u>03-APR-2018</u>
FROM	TO		
<u>2614 FT</u>	<u>8024 FT</u>		

REMARKS

*****TRAINING WELL*****

LOCATION:
SHL: 2636' FSL & 1854' FEL
SHL: 615' FSL & 1175' FEL

TRAINING WELL: BRUTON 30-14E

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

NEO RESULTS FOR BRUTON 30-19E (G-SAND)

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

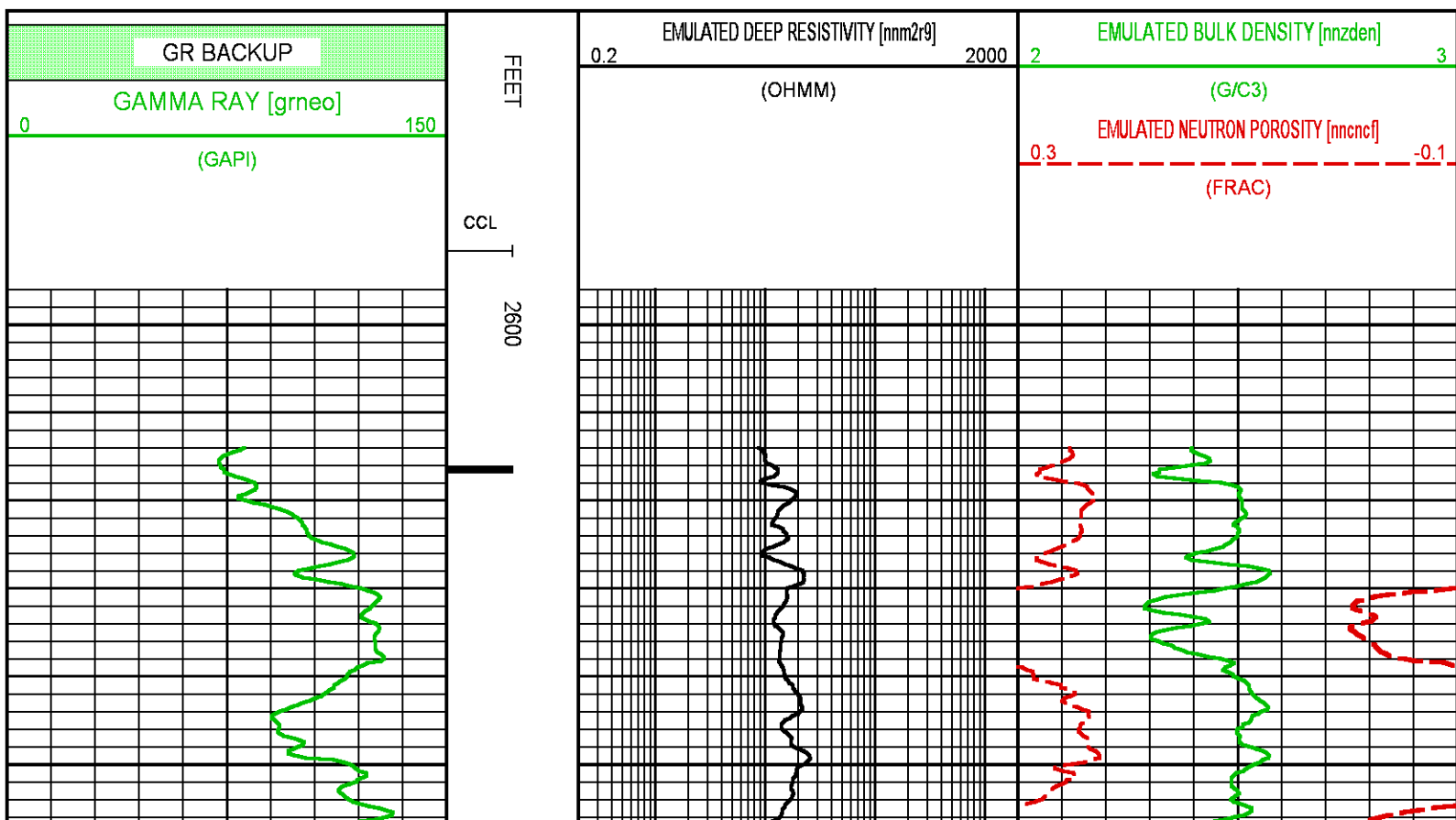
Plotted: Thu Apr 05 11:42:33 2018

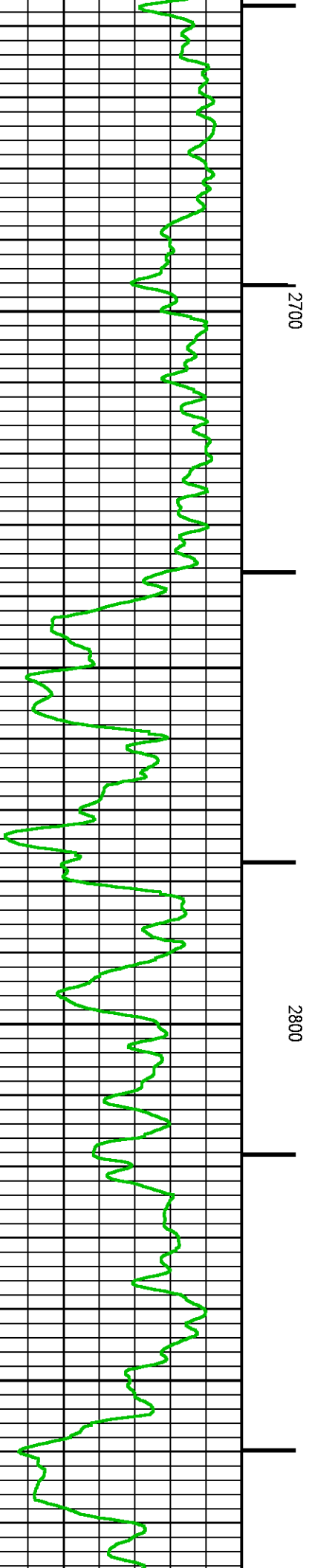
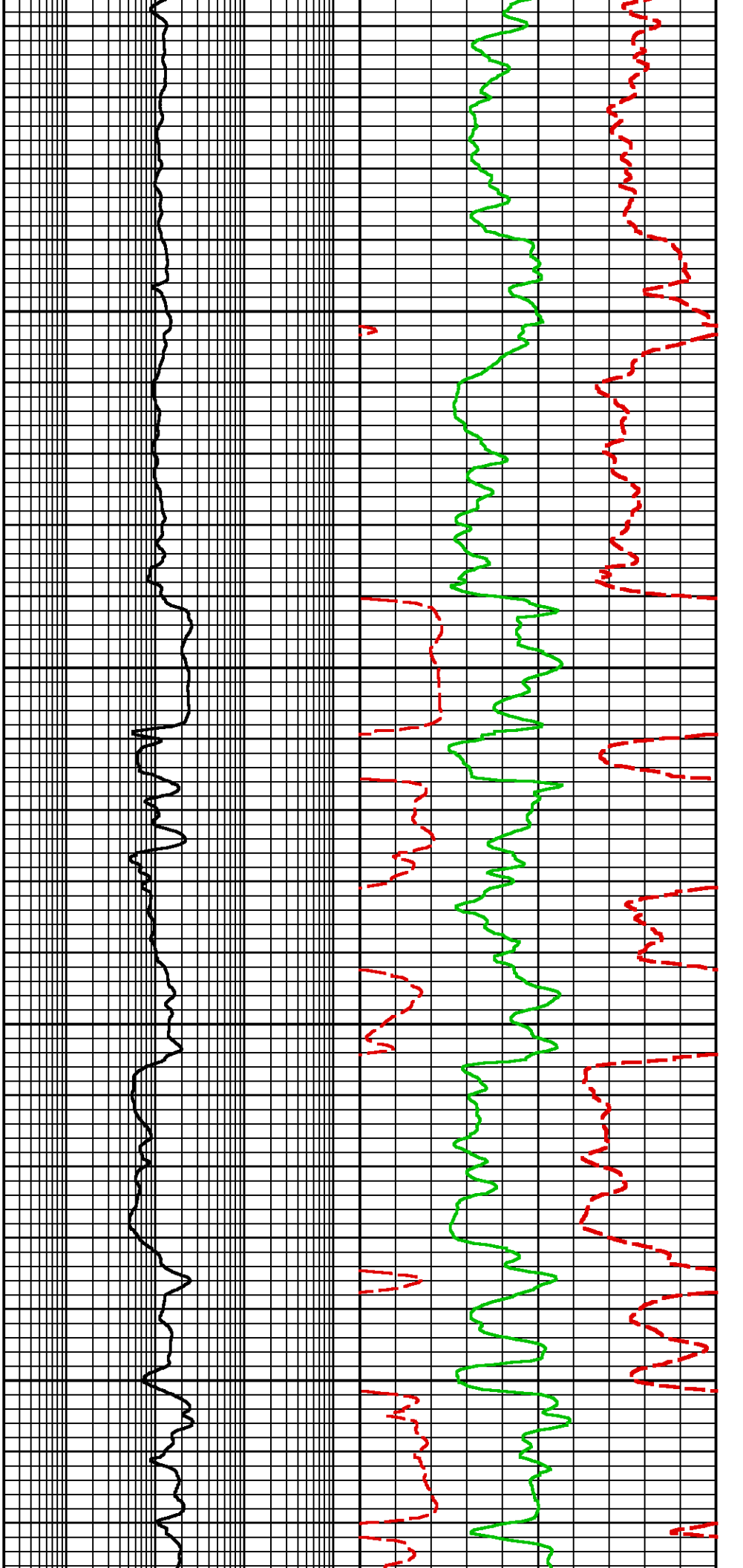
CURVE MEASURE POINT OFFSET

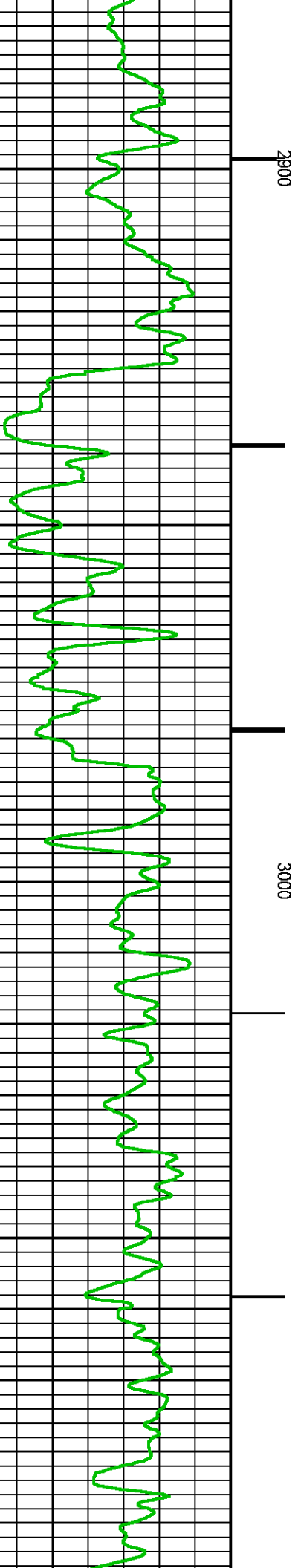
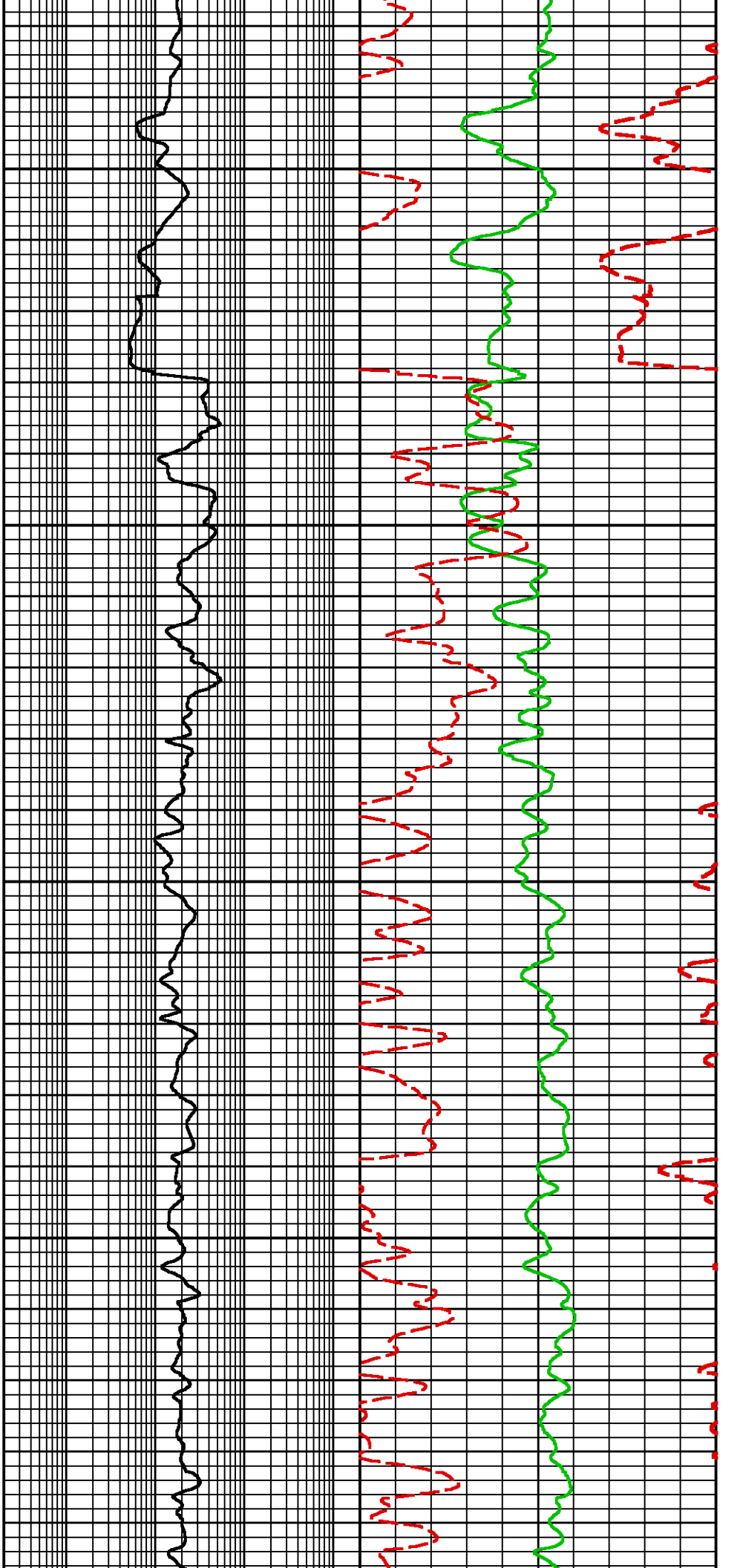
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNC	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

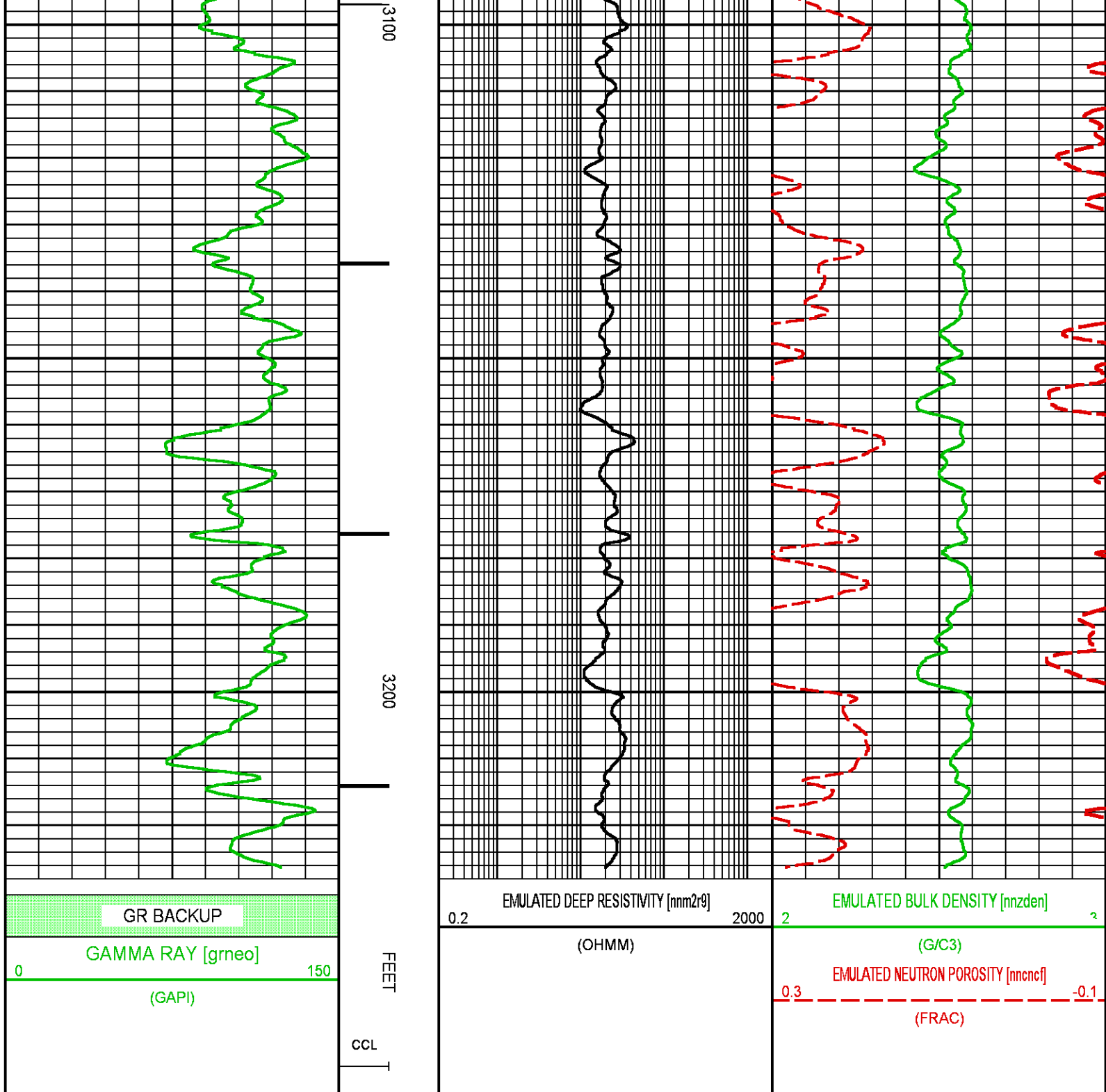
Project : NA
User : kotoale
Presentation : BHI1F65XZ1:d:\Ape_Projects\Laramie_Bruton_30_19E_NEO\NEO_PRESENTATION_LARAMIE_G-Sand.pdf [5"/100' Scale]
Plot Interval : 2597 - 3227 Feet

Data File 1 : F1 : BHI1F65XZ1:D:\Ape_Projects\Laramie_Bruton_30_19E_NEO\Merged_Set_Final.xtf
Created On : N/A
Company : LARAMIE ENERGY LLC
Well : BRUTON 30-19E
Field : VEGA
File Interval : 2614 - 8024 Feet
OCT : NA









NEO RESULTS FOR BRUTON 30-19E (MAIN)

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

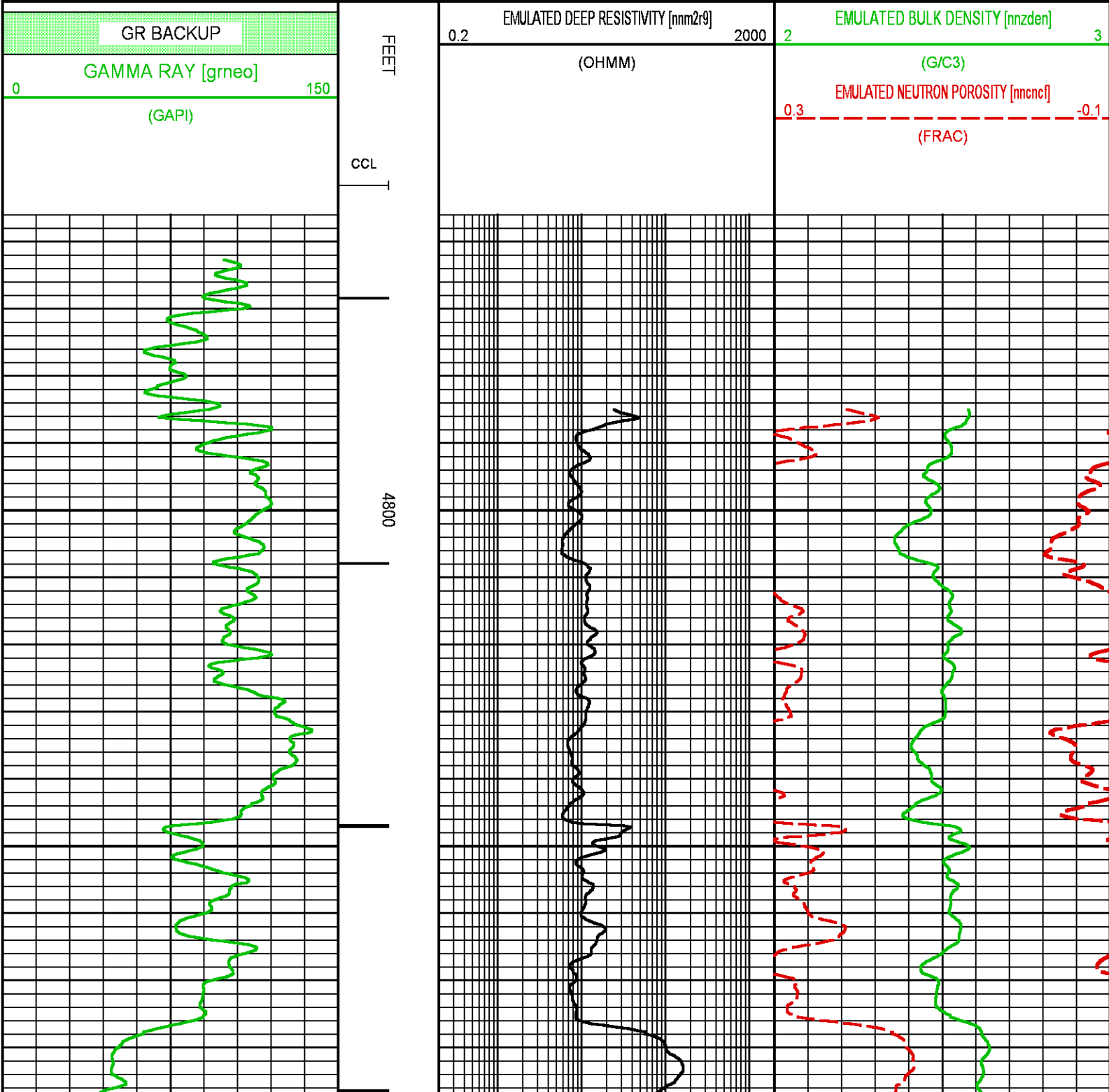
Plotted: Thu Apr 05 11:42:34 2018

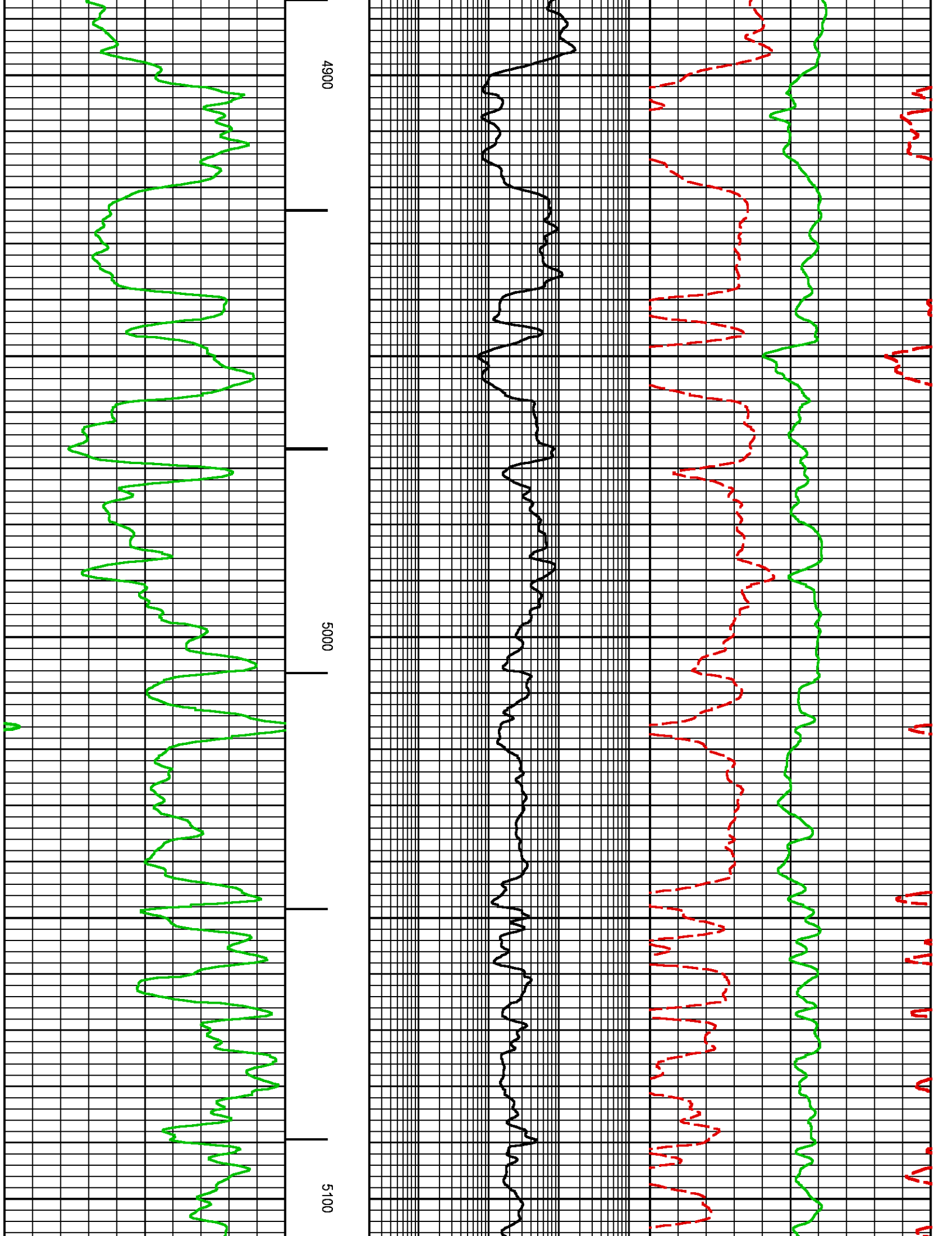
CURVE MEASURE POINT OFFSET

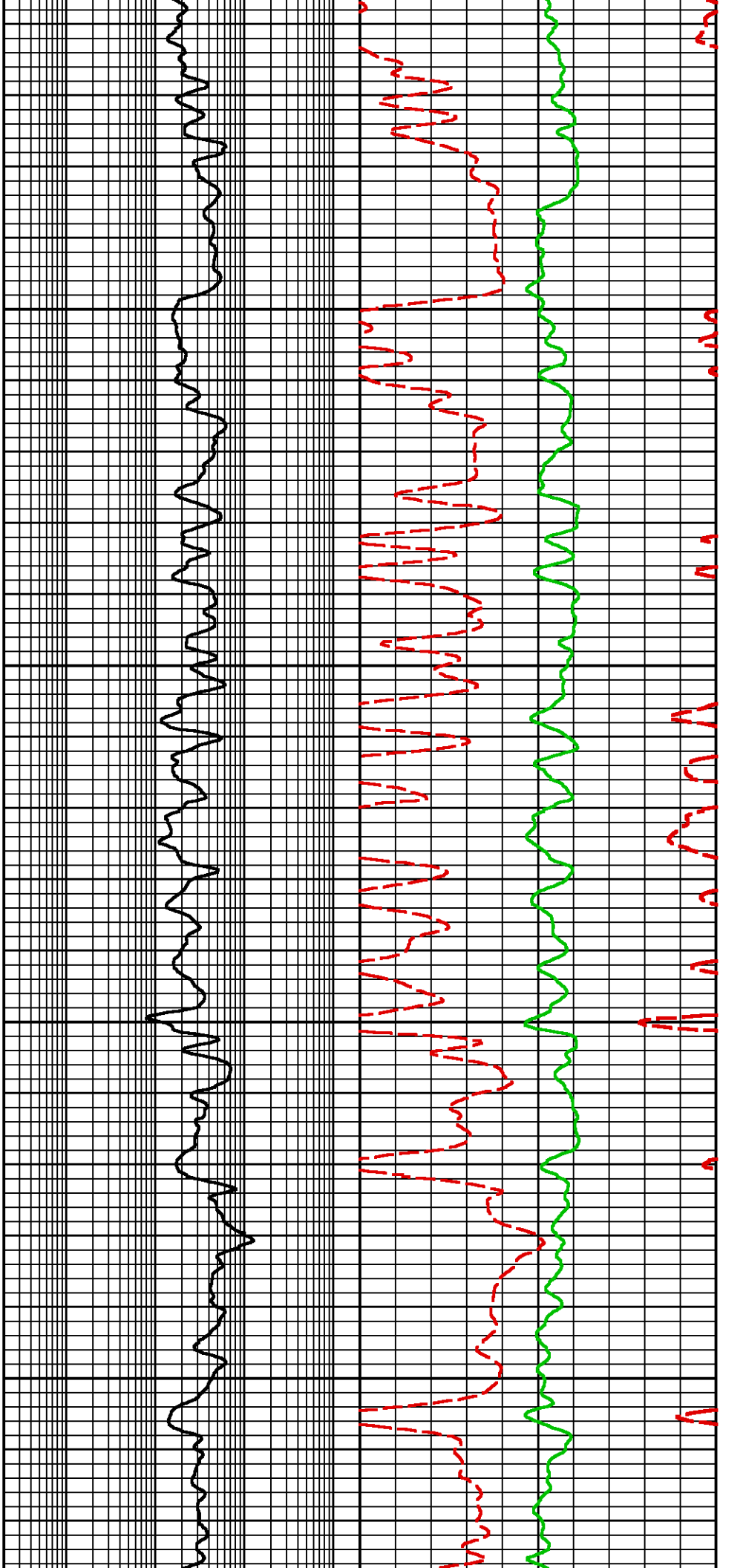
CURVE MEASURE POINT OFFSET

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 Bruton 30_19E_NEO\NEO_PRESENTATION_LARAMIE_MAIN.pdf [5"/100" Scale]
Plot Interval	: 4756 - 8032 Feet
Data File 1	: F1 : BHI1F65XZ1:D:\Ape_Projects\Laramie Bruton 30_19E_NEO\Merged_Set_Final.xtf
Created On	: N/A
Company	: LARAMIE ENERGY LLC
Well	: BRUTON 30-19E
Field	: VEGA
File Interval	: 2614 - 8024 Feet
OCT	: NA

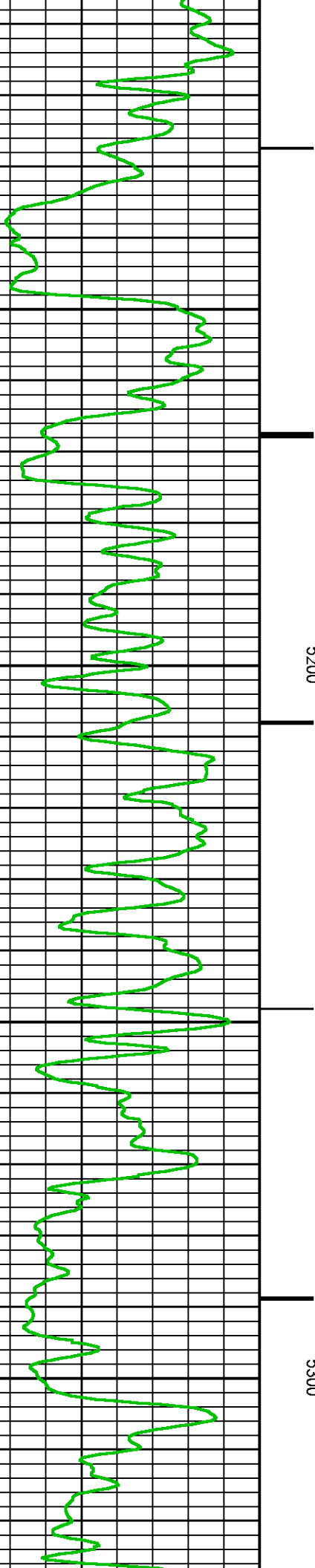


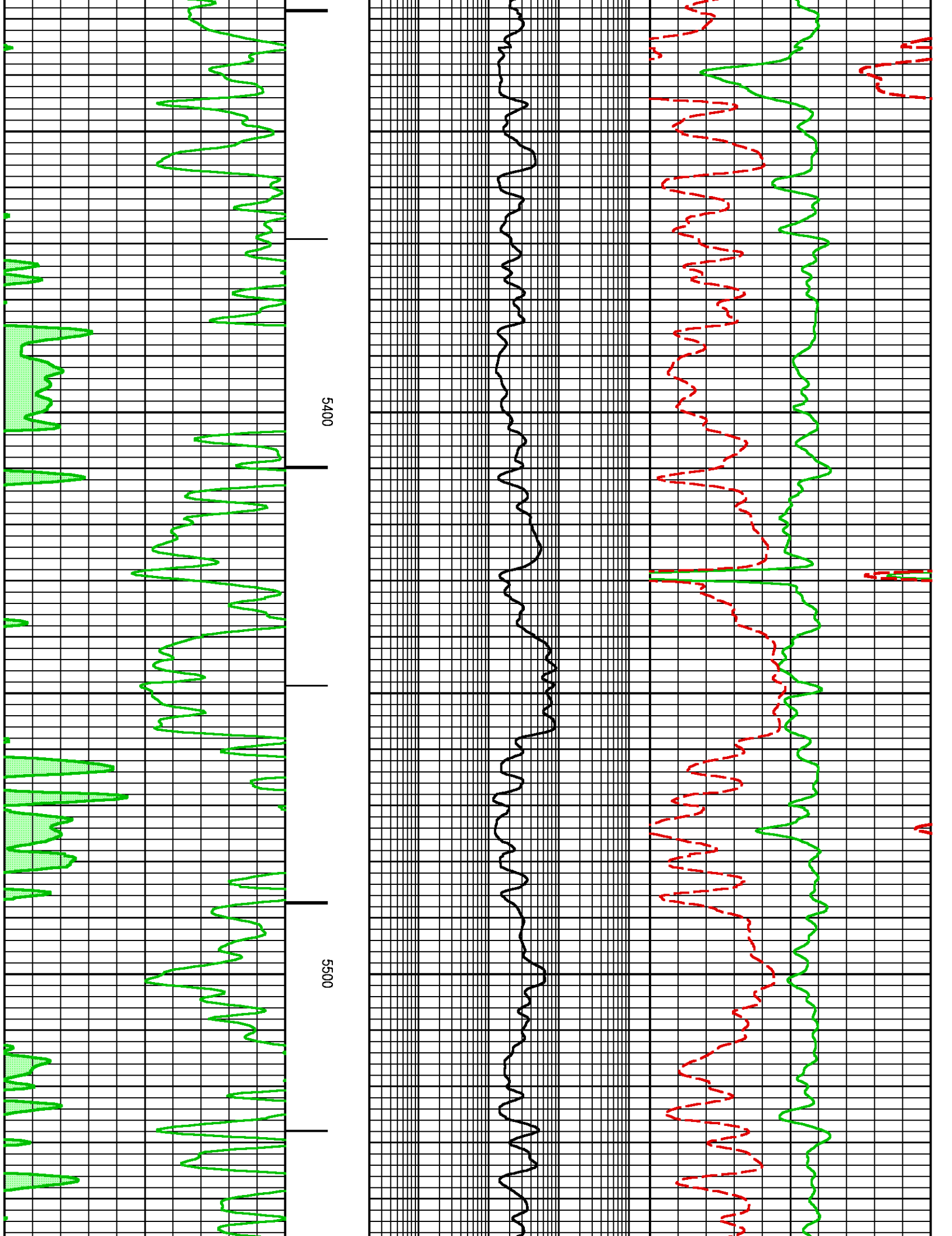


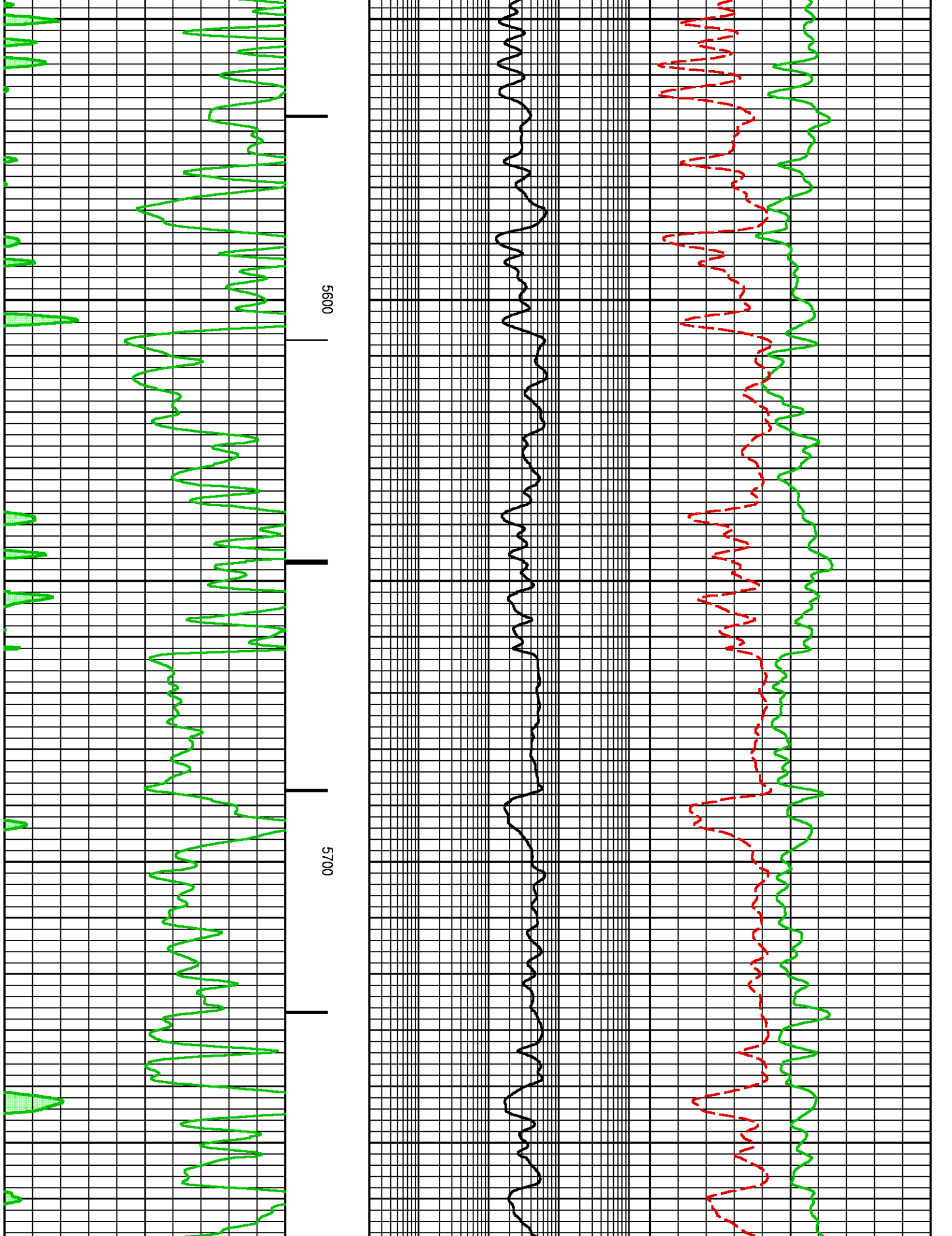


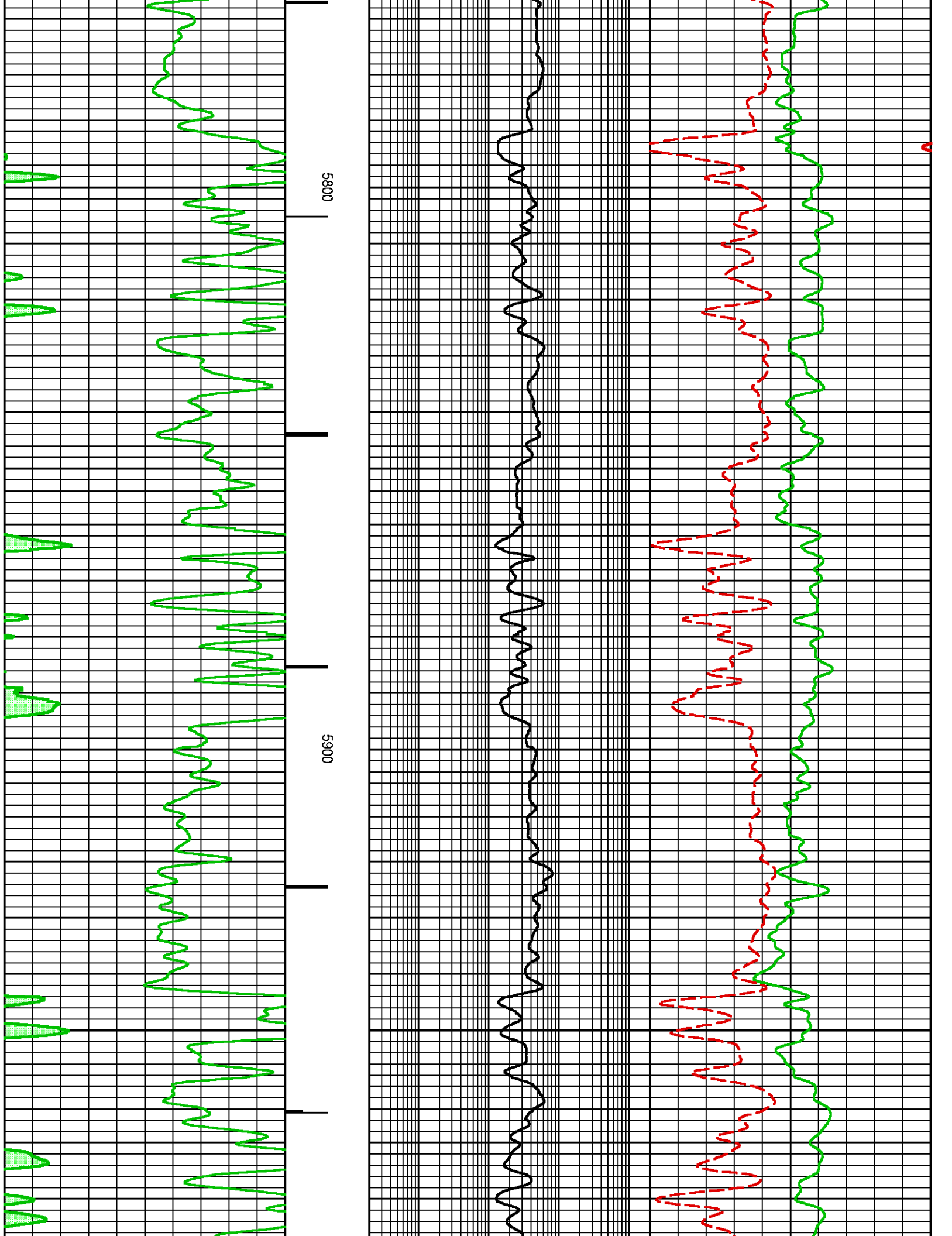
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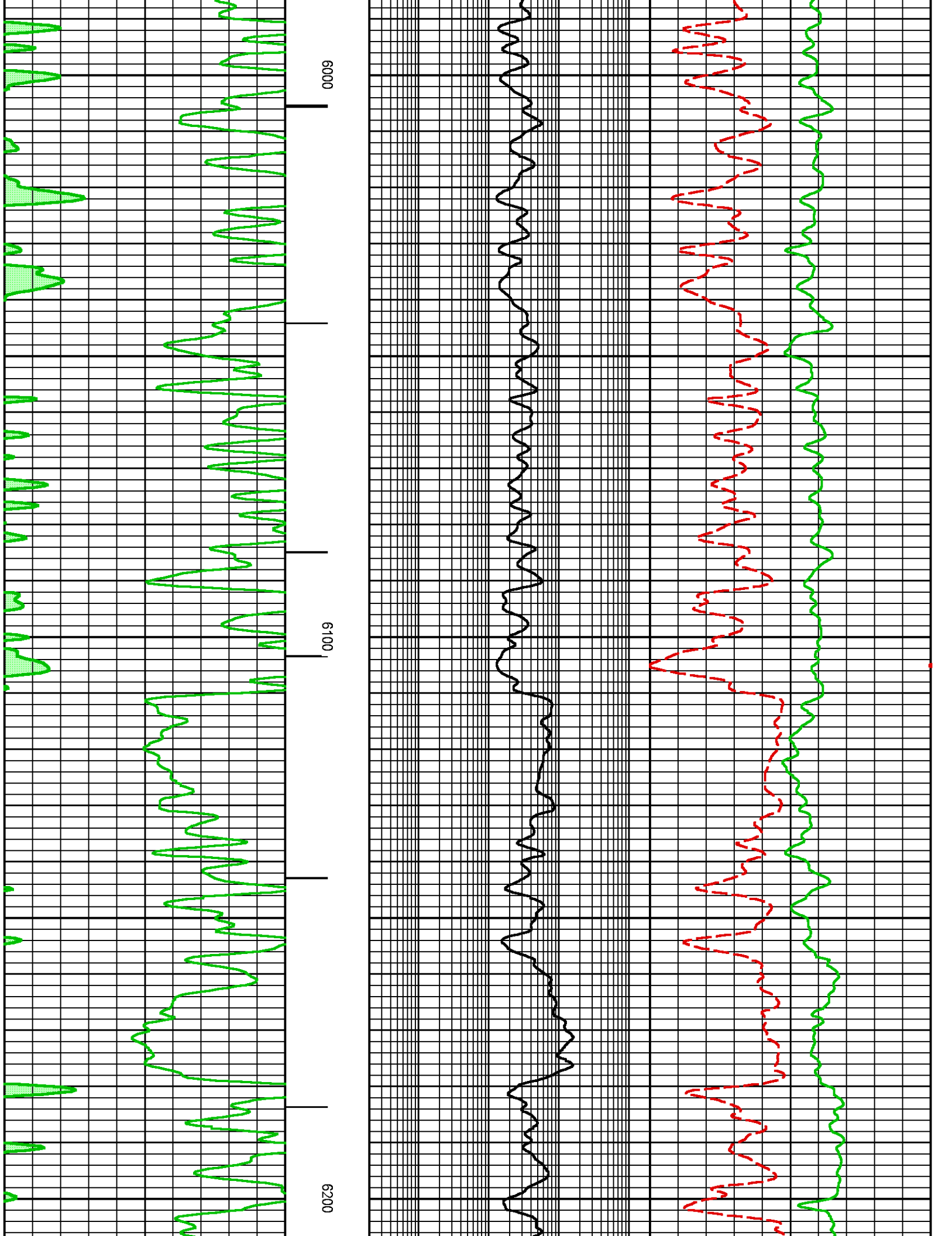
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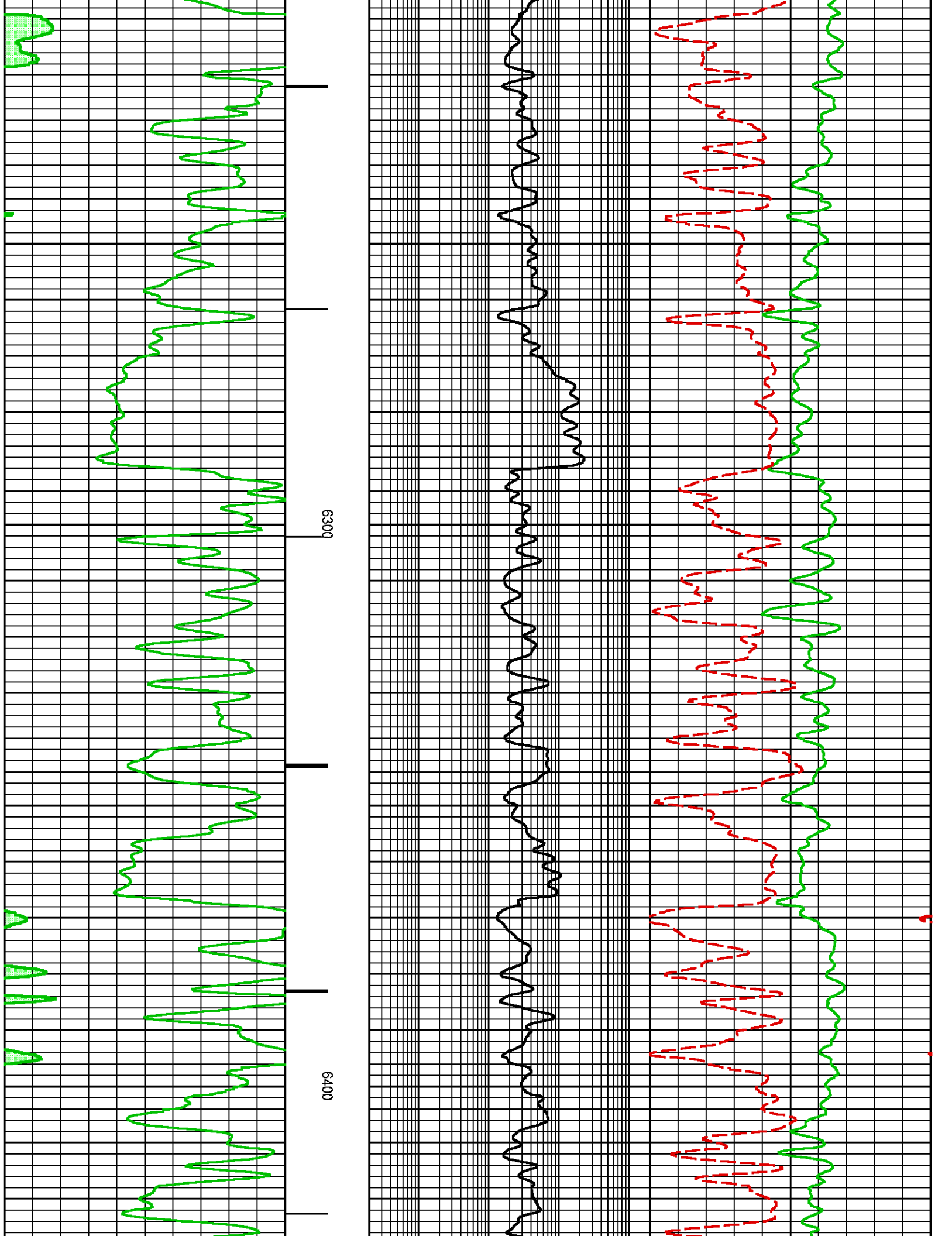


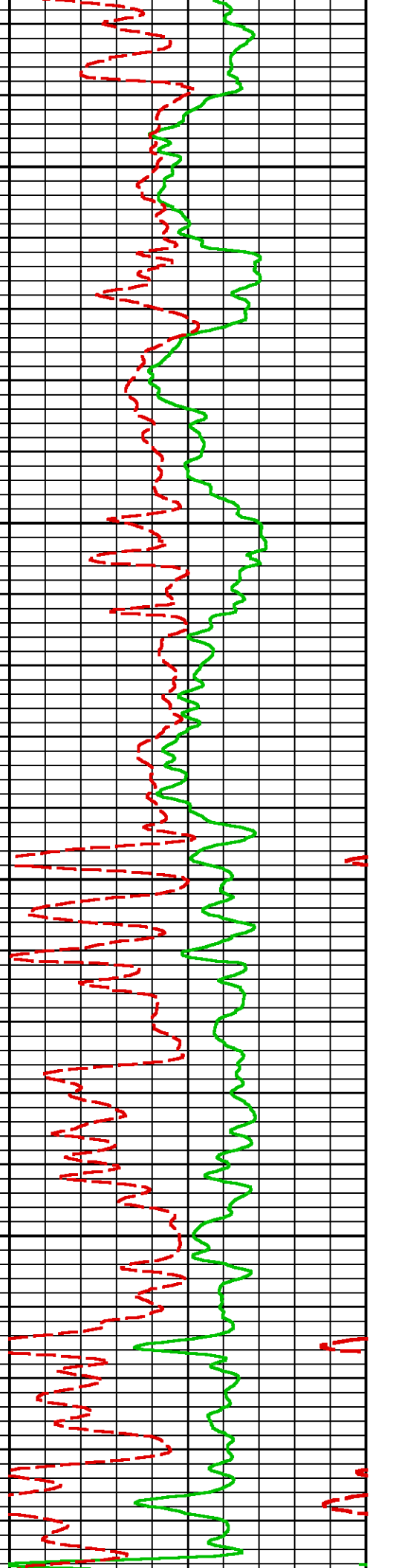
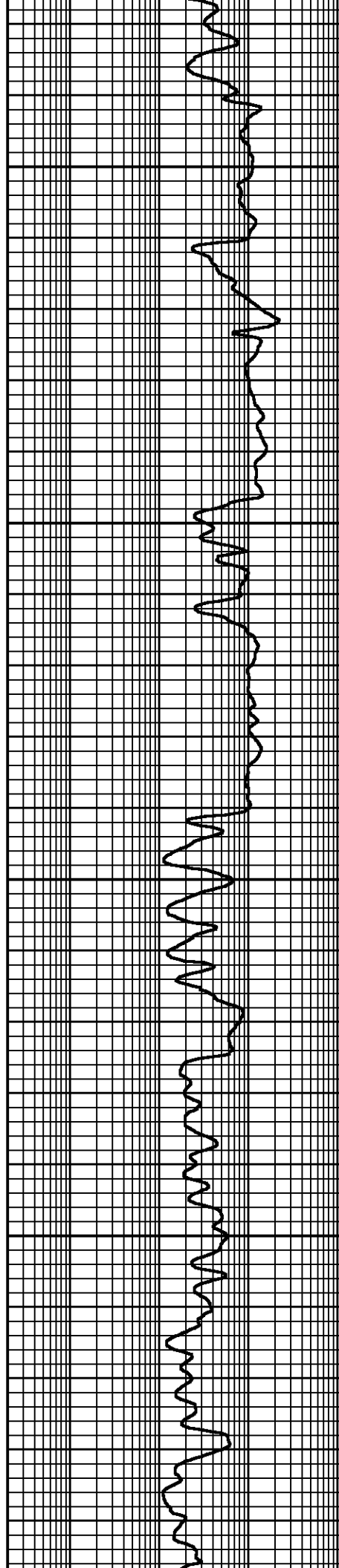
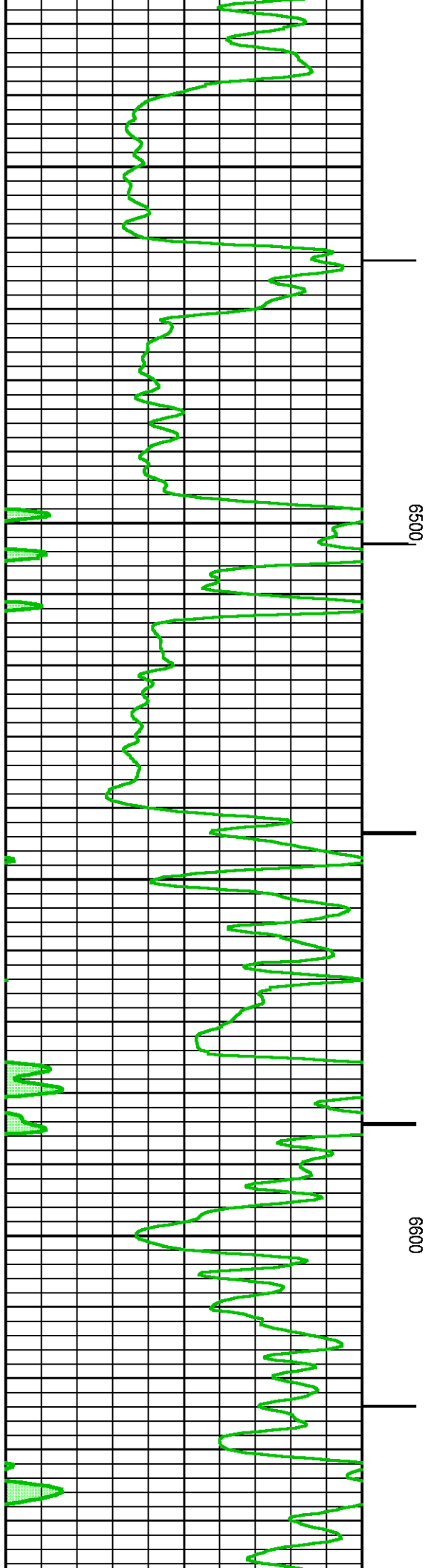


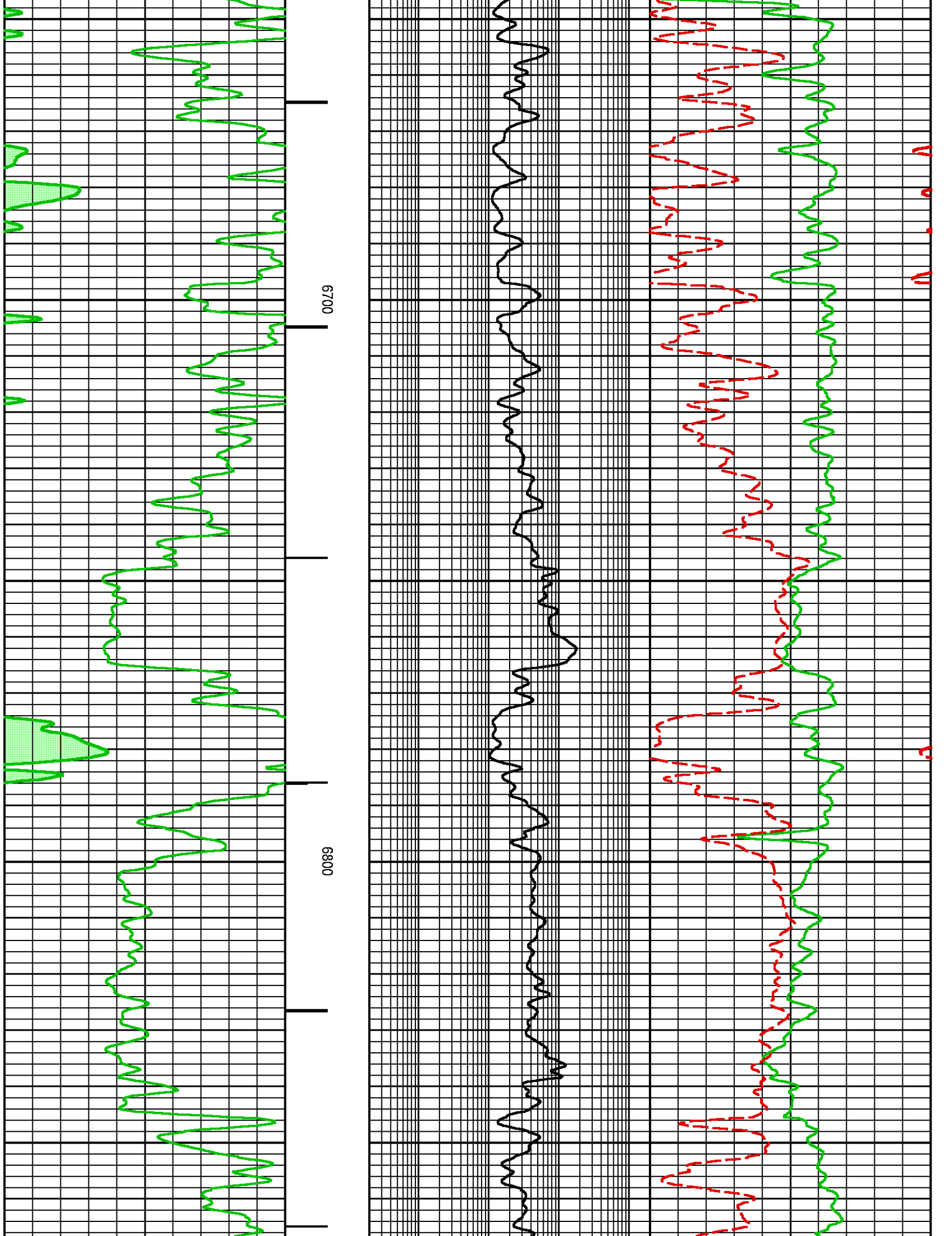


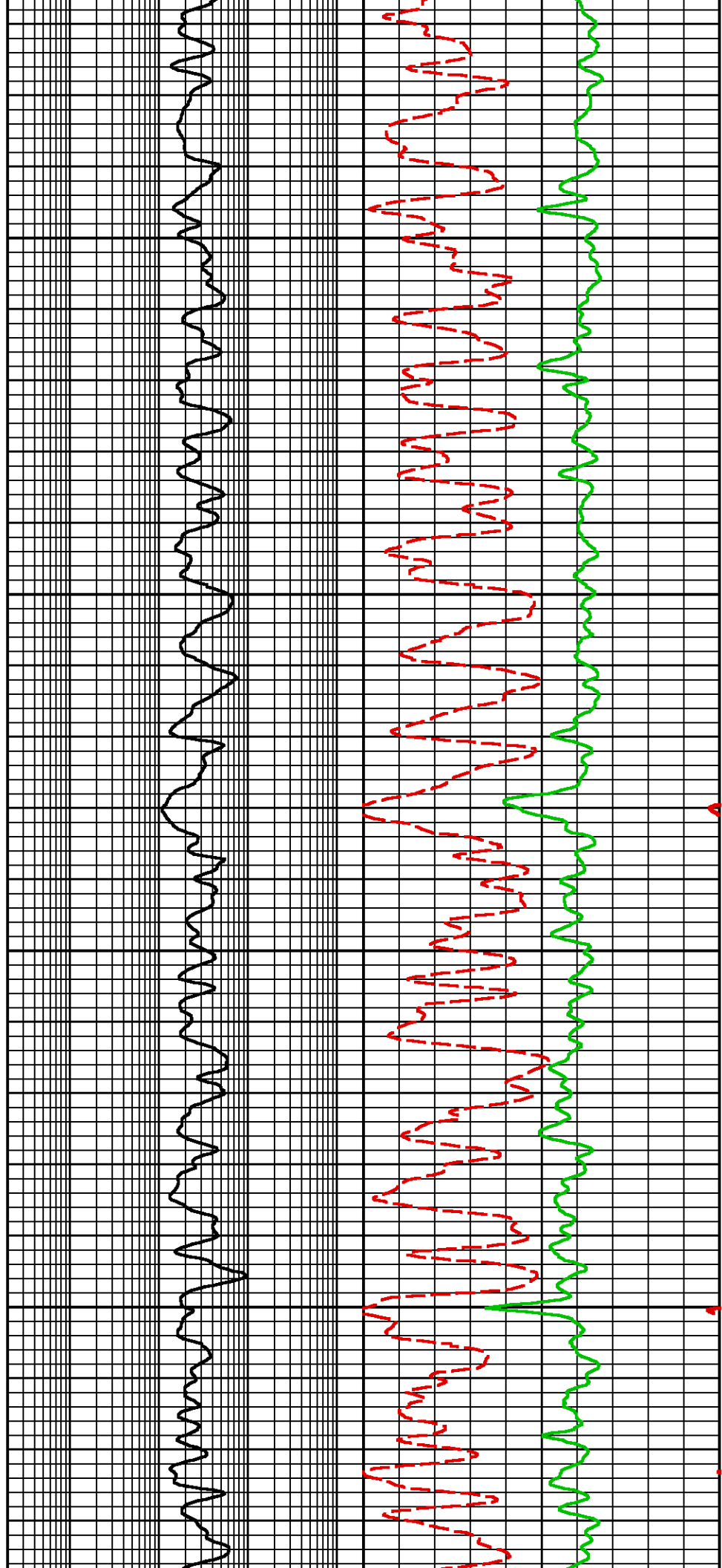
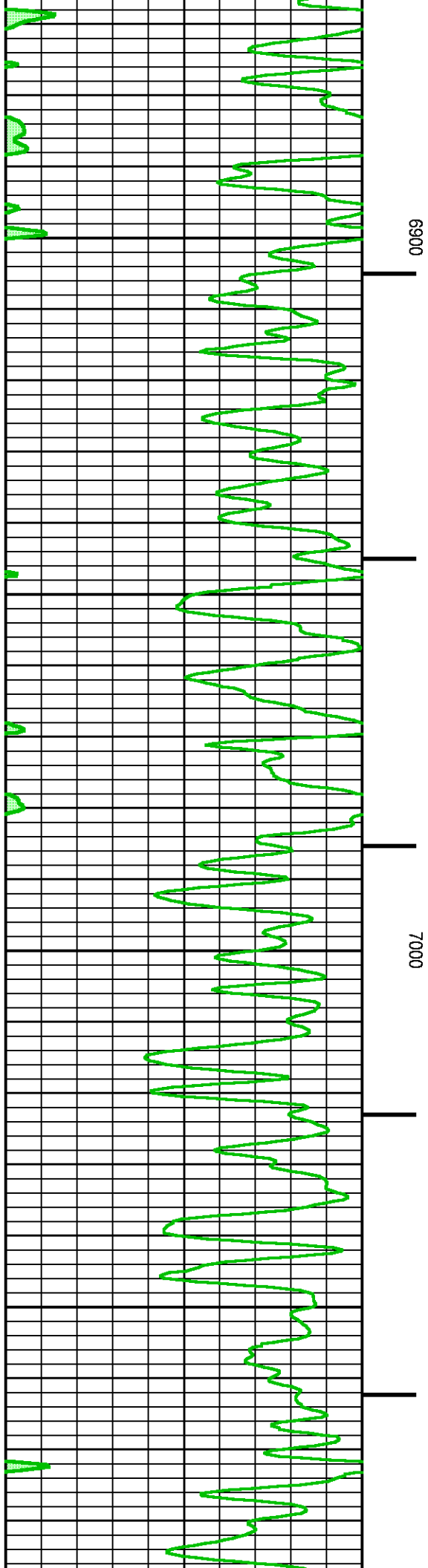


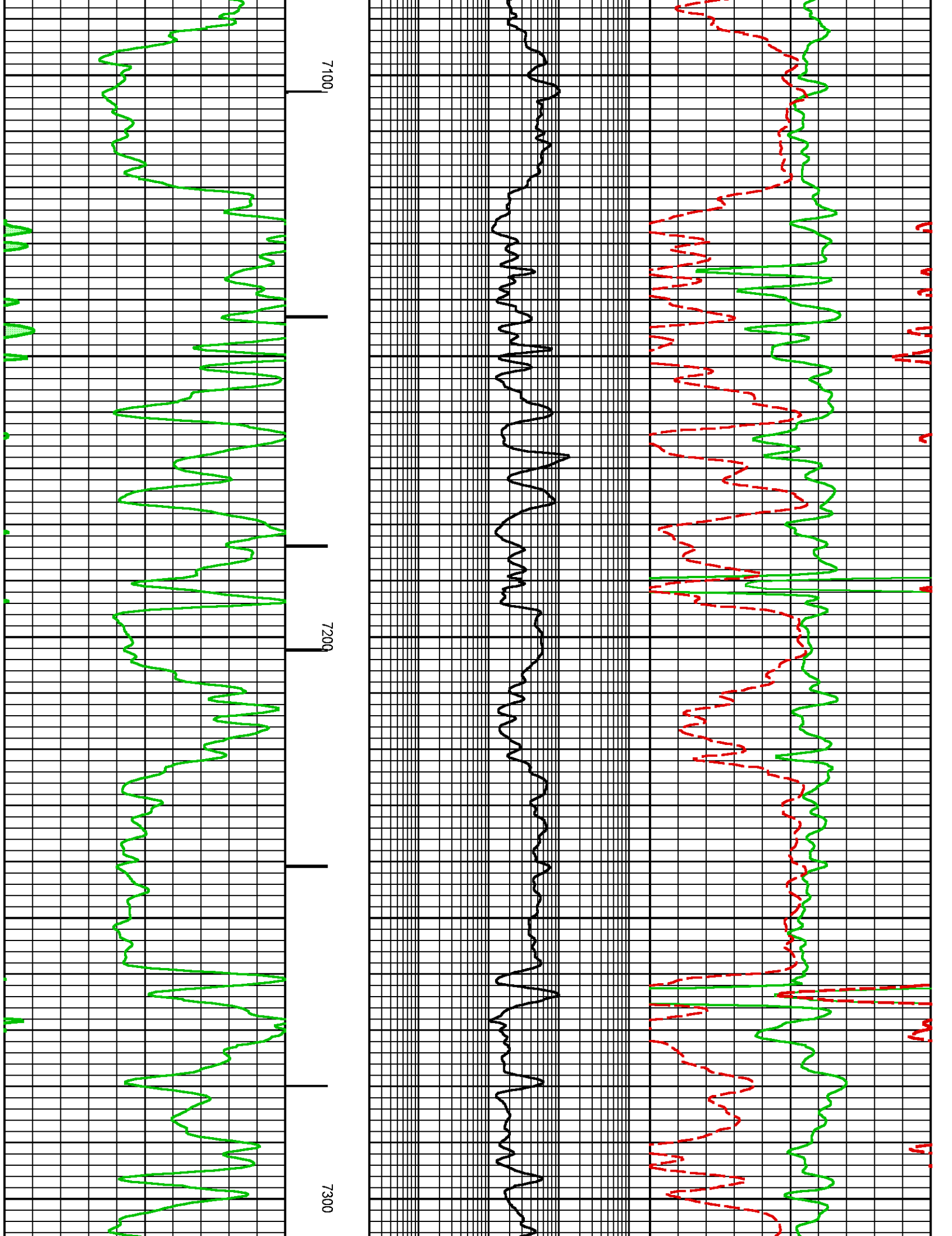


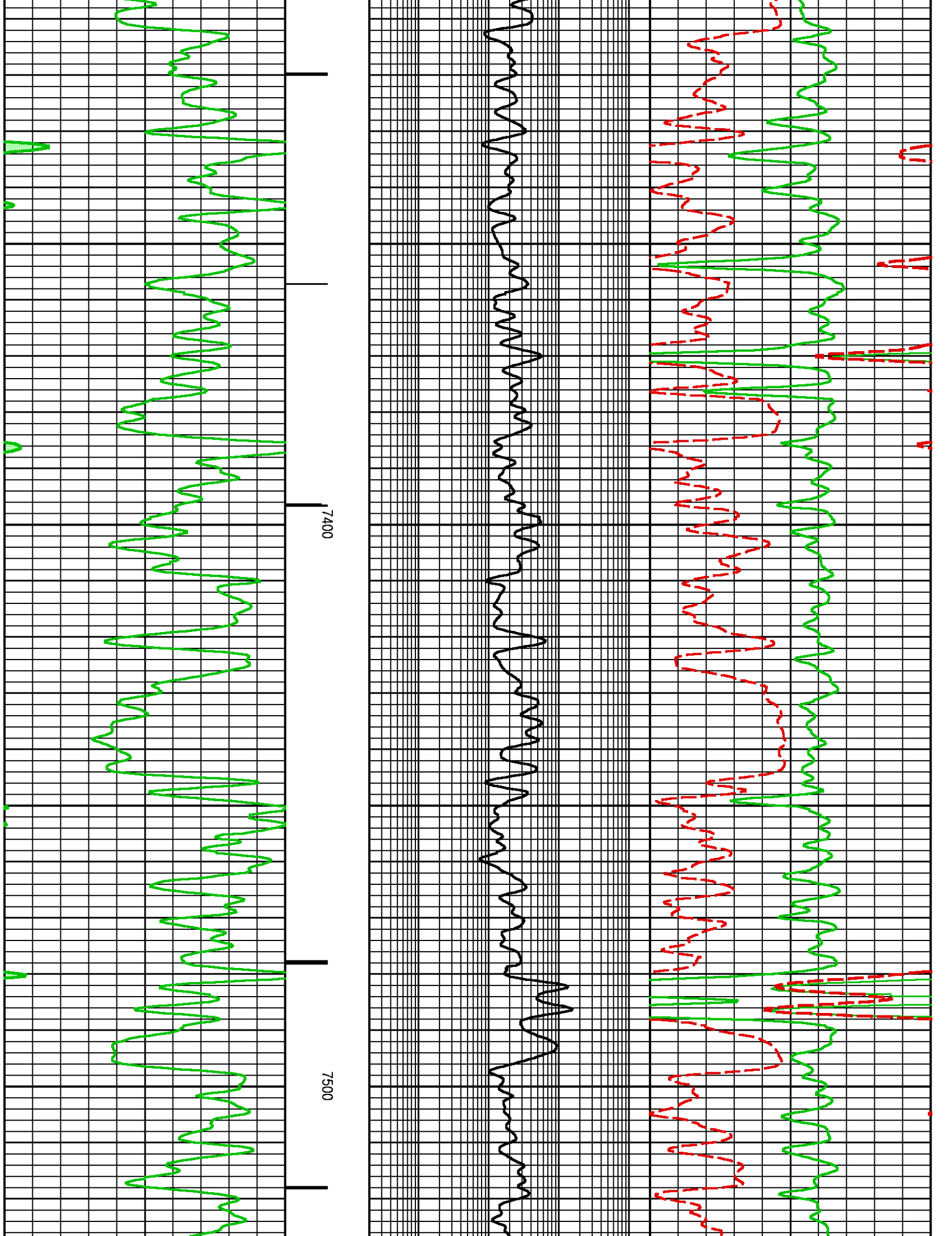


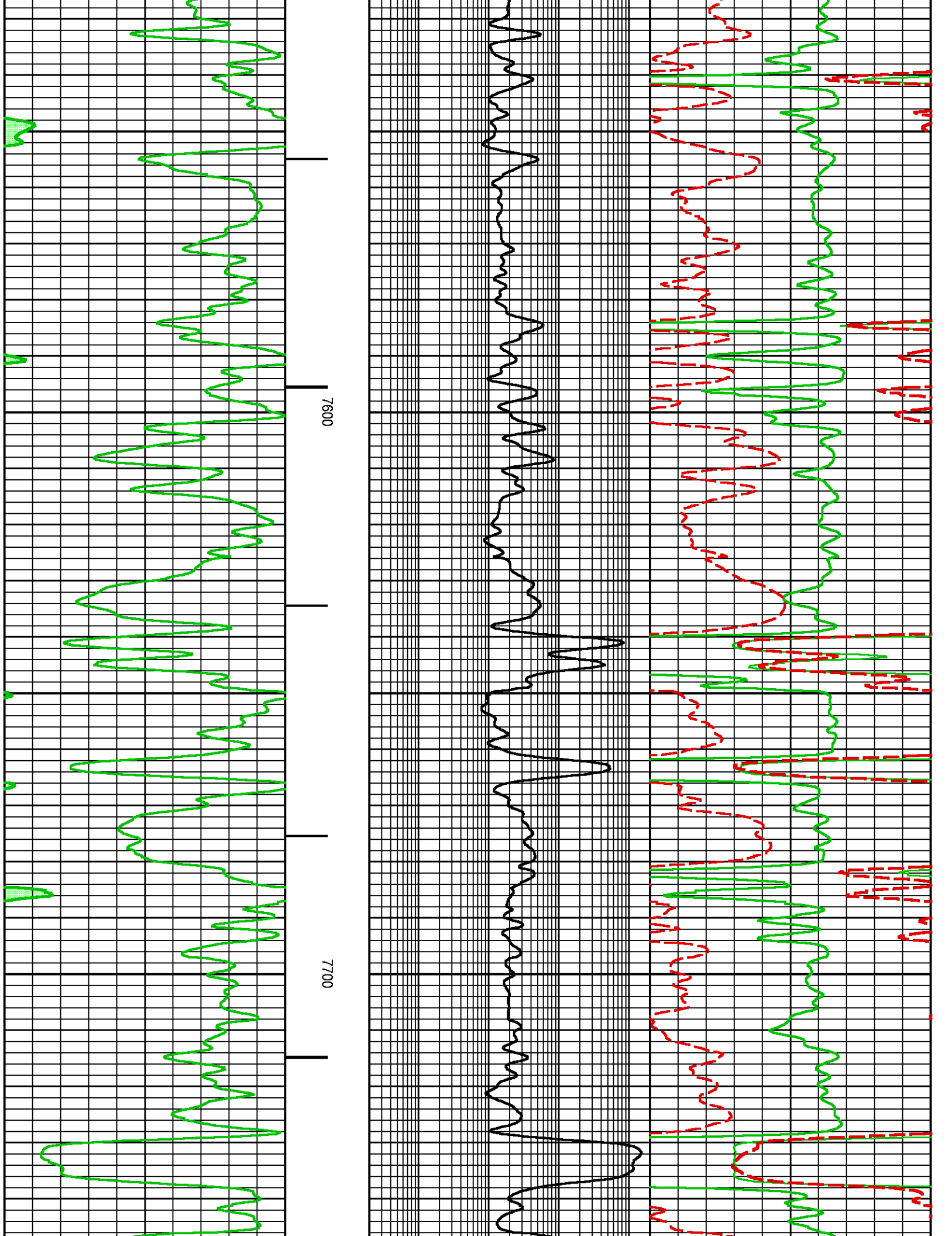


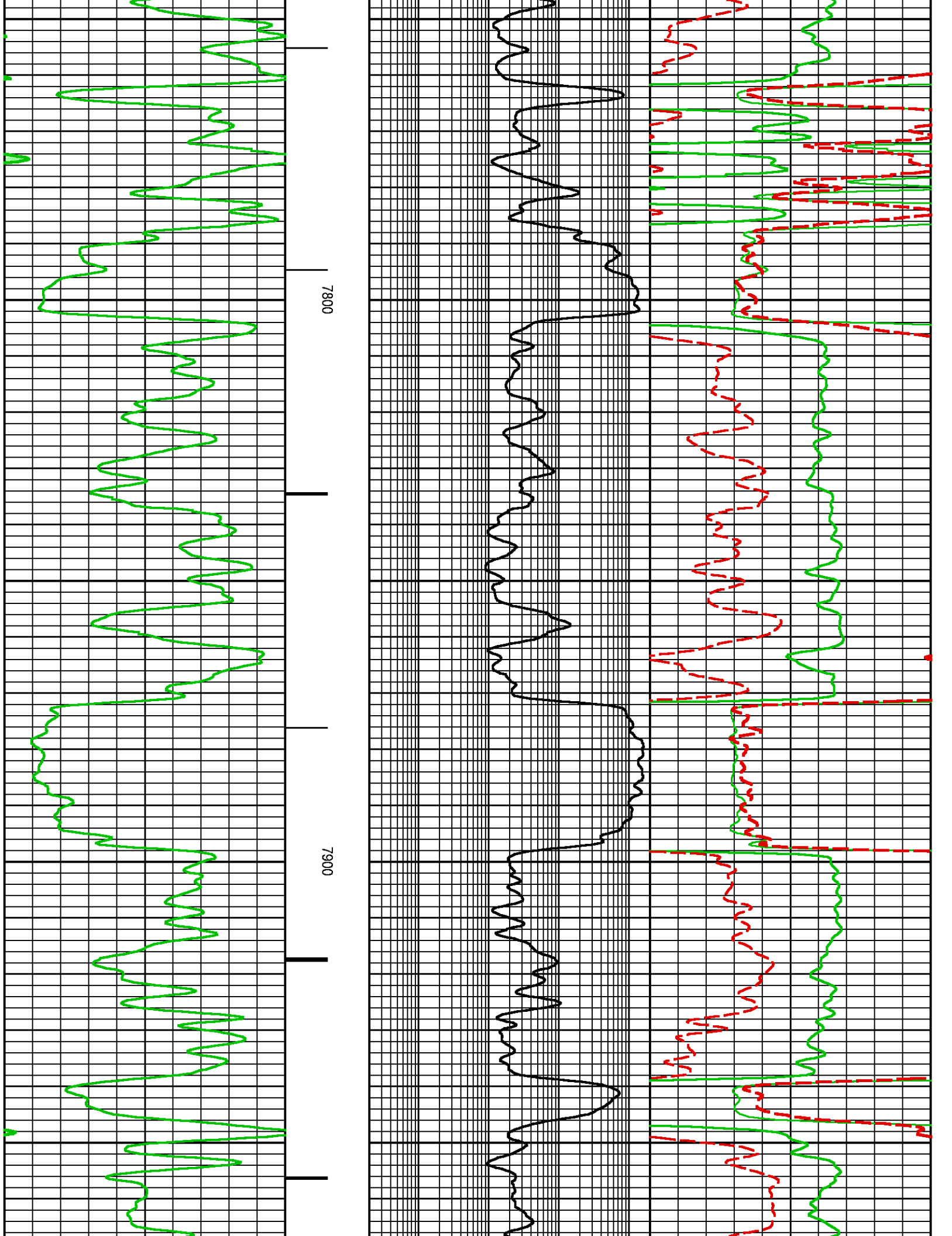


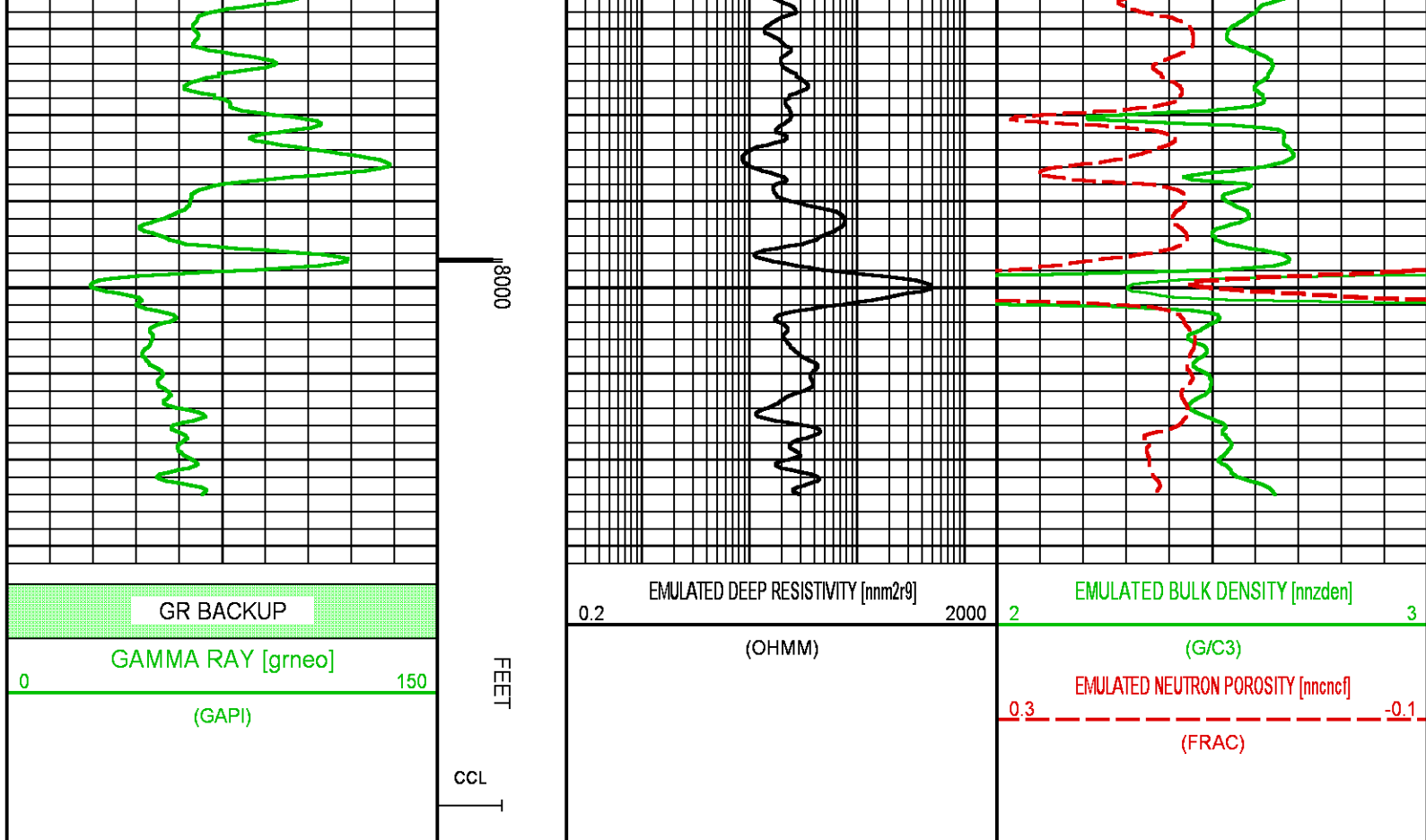



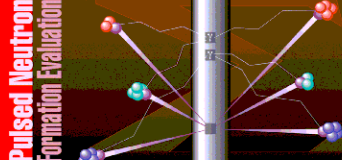










 	COMPANY <u>LARAMIE ENERGY</u> WELL <u>BRUTON 30-19E</u> FIELD <u>VEGA</u> COUNTY <u>MESA</u> STATE <u>COLORADO</u>		FILE NO: _____ API NO: <u>05077104730000</u>
	LOCATION: <u>SEE REMARKS SECTION</u>		ELEVATIONS: KB <u>7673.0 FT</u> DF <u>30 FT</u> GL <u>7643.0 FT</u>
	DATE <u>03-APR-2018</u>		