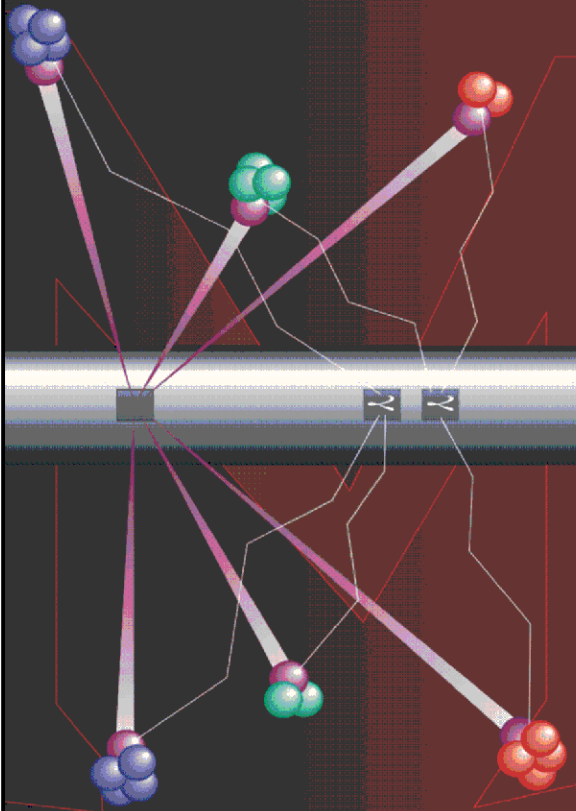




Pulsed Neutron Formation Evaluation



NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY LLC

WELL BRUTON 30-14W

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS SECTION

SEC 30 TWP 9S RGE 93W

ELEVATIONS:

KB 7673.0 FT DF 30.0 FT GL 7643.0 FT

DATE 05-FEB-2018 ECC 30272-01

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>09-FEB-2018</u>
FIELD DATA	LOCATION: <u>GRAND JCT.</u>	ENGINEER: <u>T.NEWELL/US132062</u>	DATE: <u>05-FEB-2018</u>

FROM	TO								
<u>2530 FT</u>	<u>8030 FT</u>								

REMARKS

LOCATION:
SHL: 2611' FNL & 1883' FEL
BHL: 1908' FSL & 1310' FWL

TRAINING WELL: BRUTON 30-14E

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

NEO RESULTS FOR BRUTON 30-14W (G-SAND)

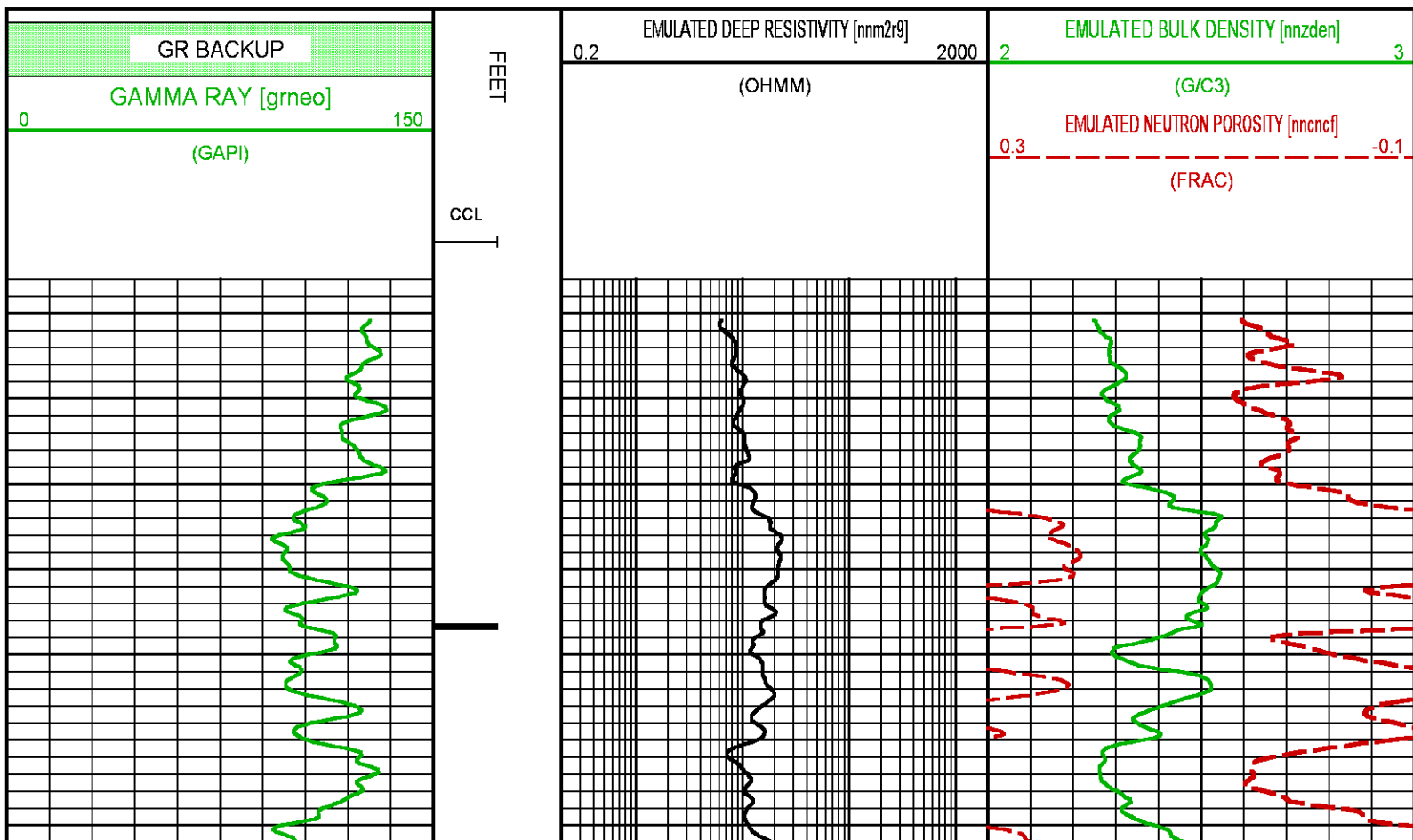
ECLIPS ECLOT from ECLIPS 7.0 WFM 5.0.7343.1 Sun 02/07/2016 16:48:51.73

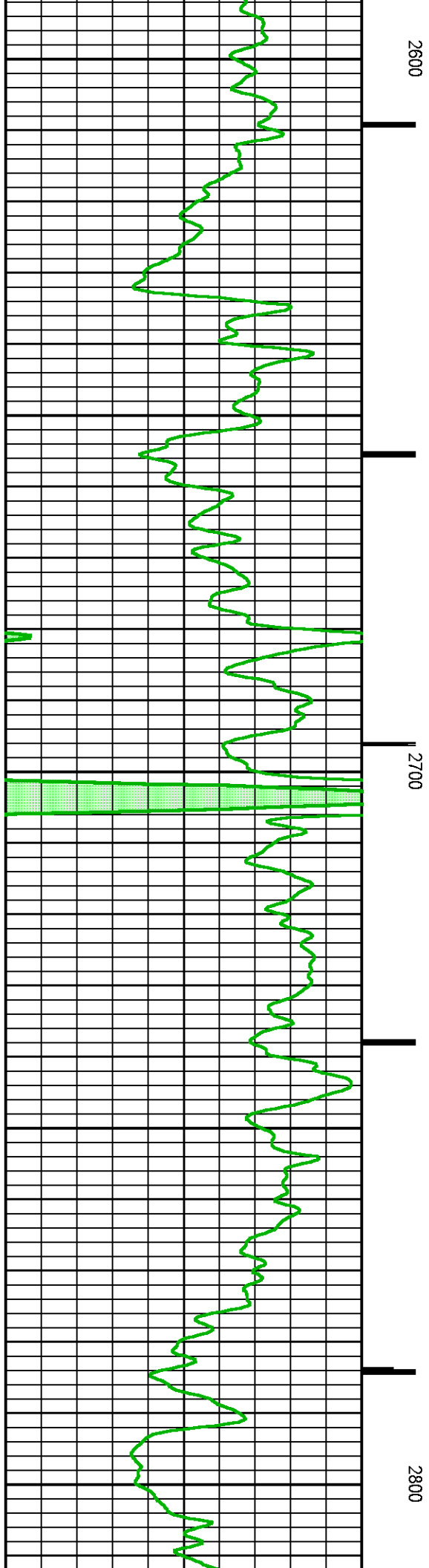
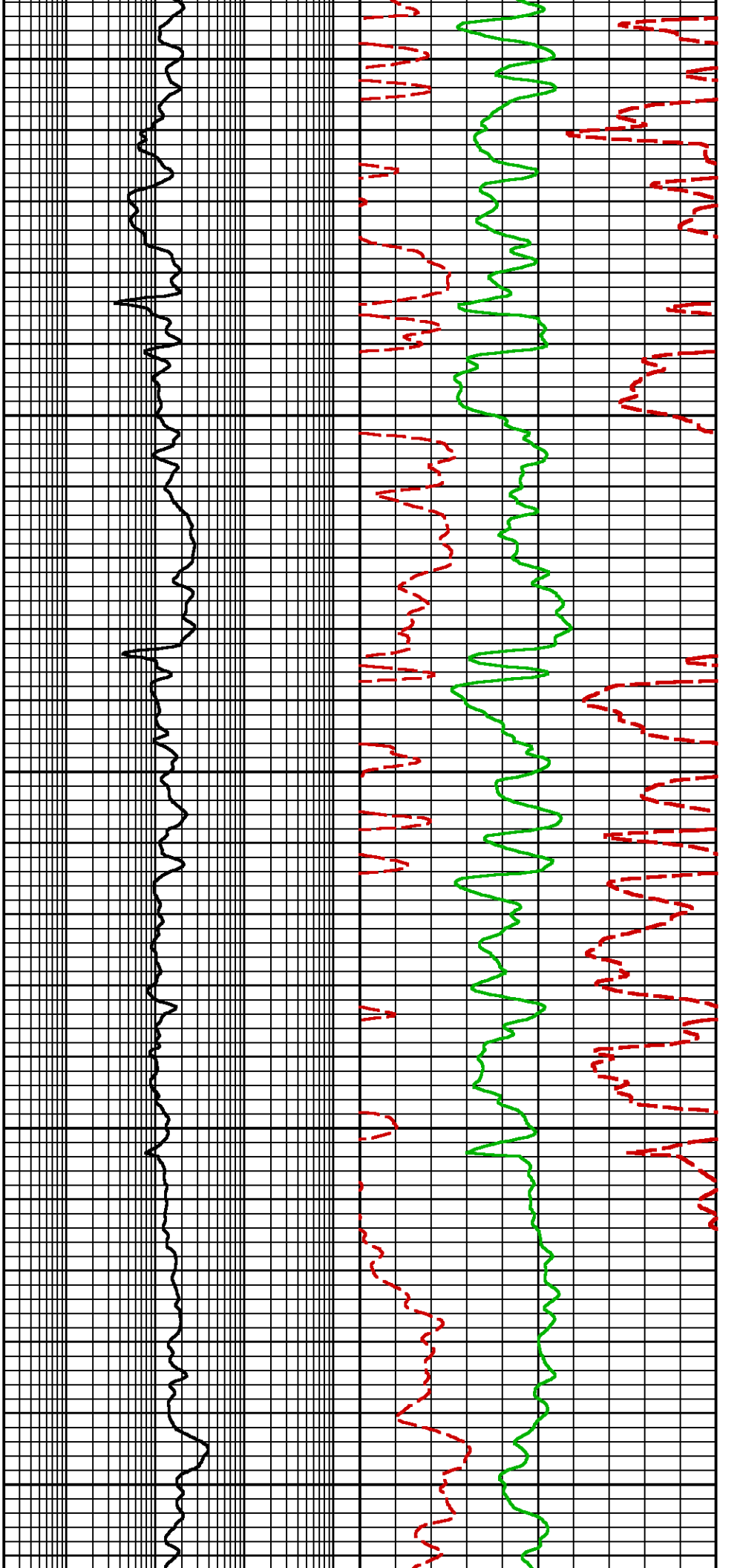
Plotted: Fri Feb 09 14:07:06 2018

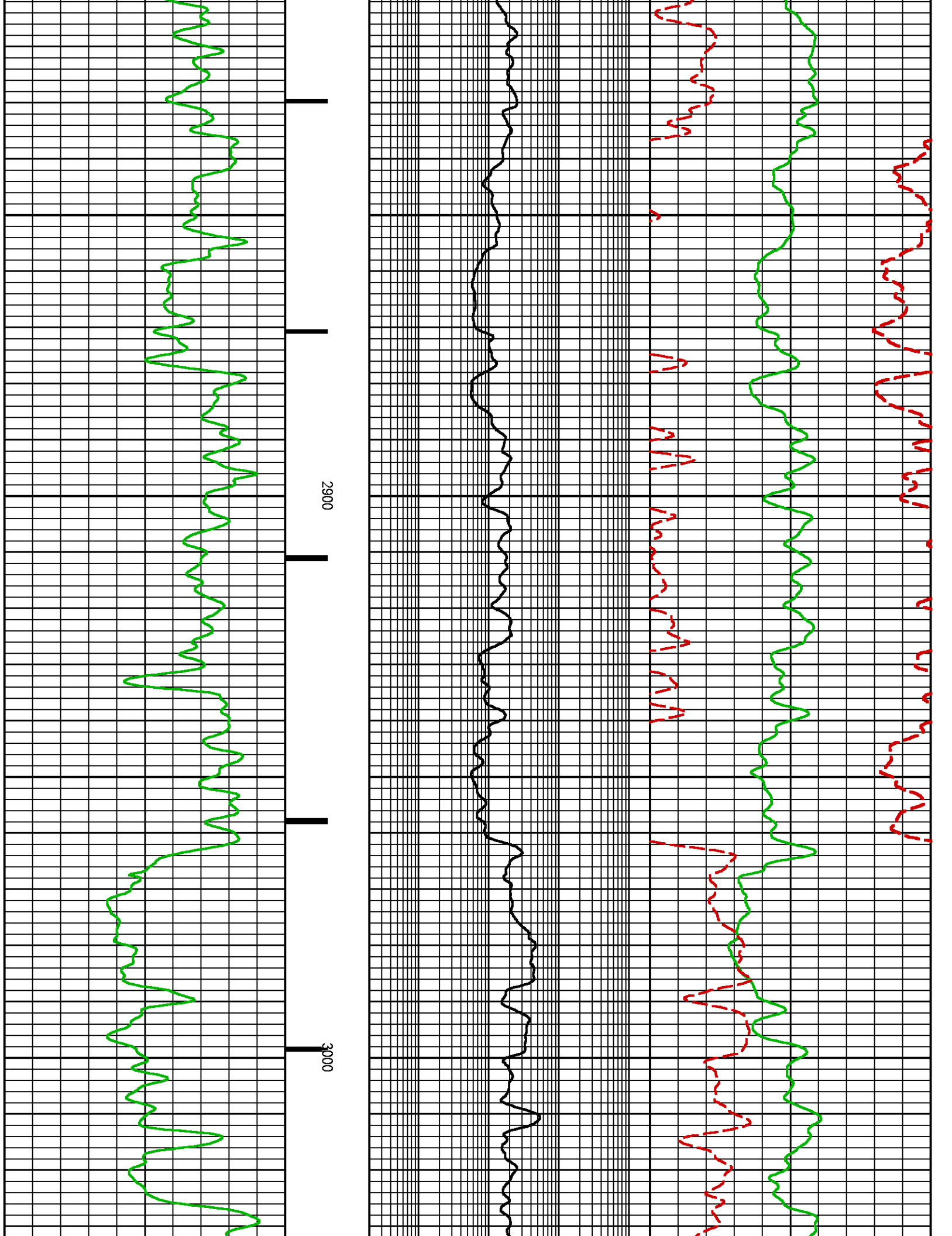
CURVE MEASURE POINT OFFSET

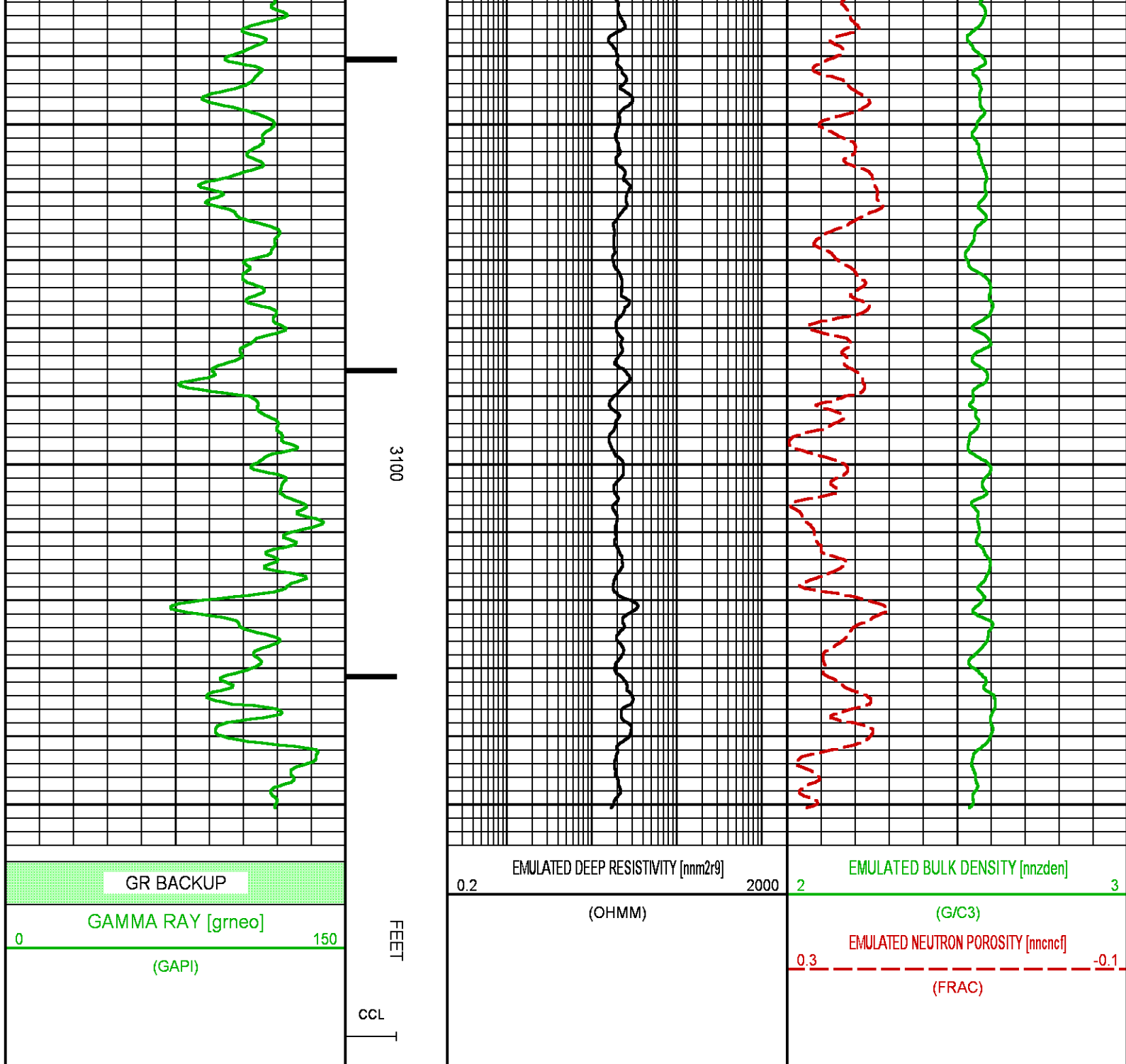
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNC	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

Project : NA
User : kotoale
Presentation : BHI1F65XZ1:d:\Ape_Projects\Laramie_Bruton_30_14W_NEO\NEO_PRESENTATION_LARAMIE_G-Sand.pdf [5"/100" Scale]
Plot Interval : 2527 - 3156 Feet
Data File 1 : F1 : BHI1F65XZ1:D:\Ape_Projects\Laramie_Bruton_30_14W_NEO\Merged_Set_Final.xtf
Created On : N/A
Company : LARAMIE ENERGY LLC
Well : BRUTON 30-14W
Field : VEGA
File Interval : 2530.75 - 8030.75 Feet
OCT : NA









NEO RESULTS FOR BRUTON 30-14W (MAIN)

ECLIPS ECPLLOT from ECLIPS 7.0 WFM 5.0.7343.1 Sun 02/07/2016 16:48:51.73

Plotted: Fri Feb 09 14:07:05 2018

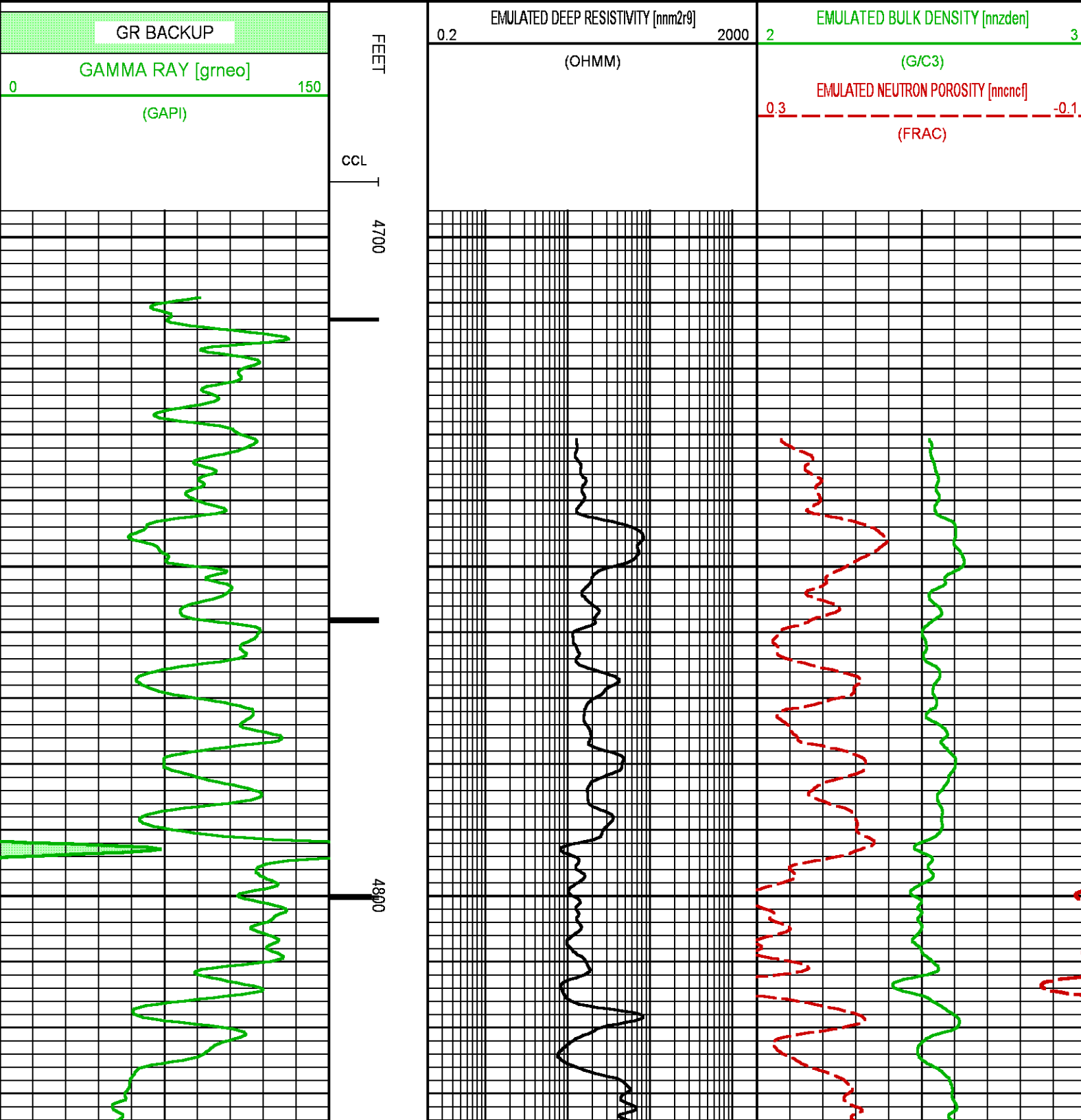
CURVE MEASURE POINT OFFSET

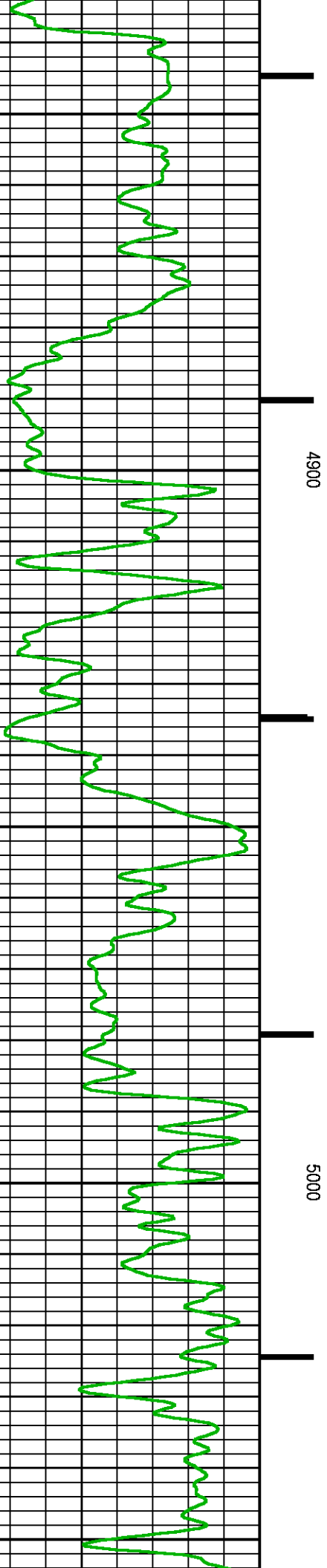
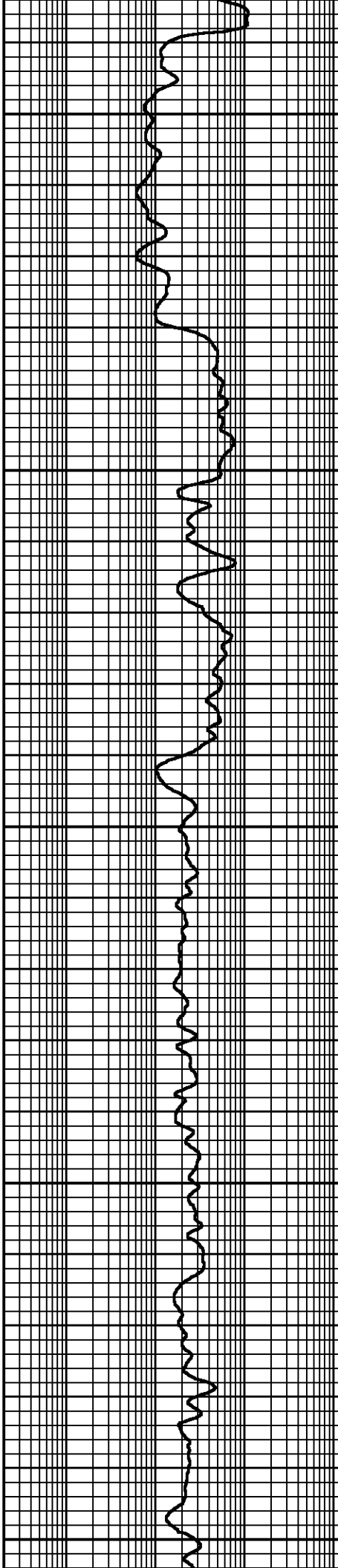
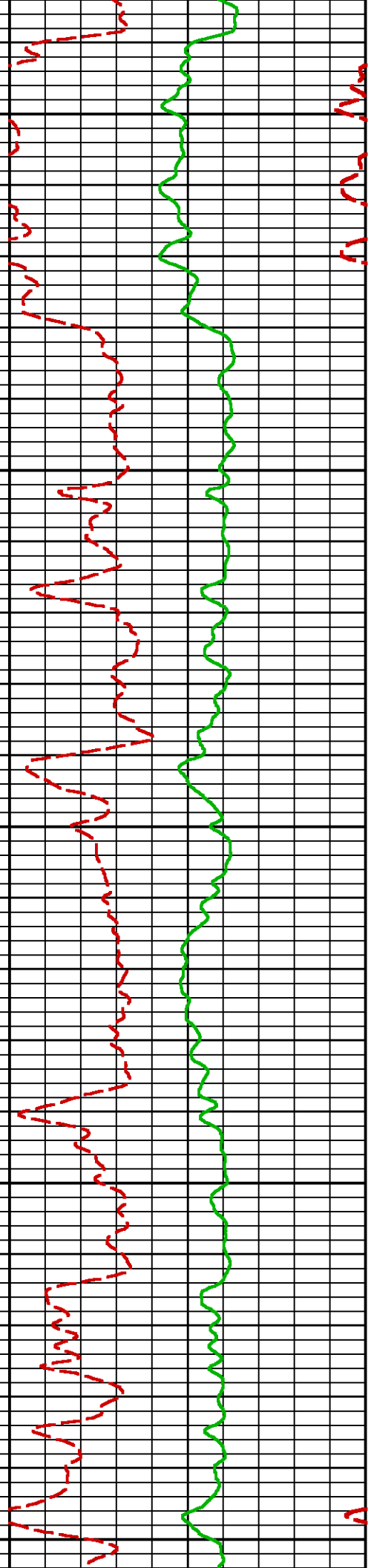
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
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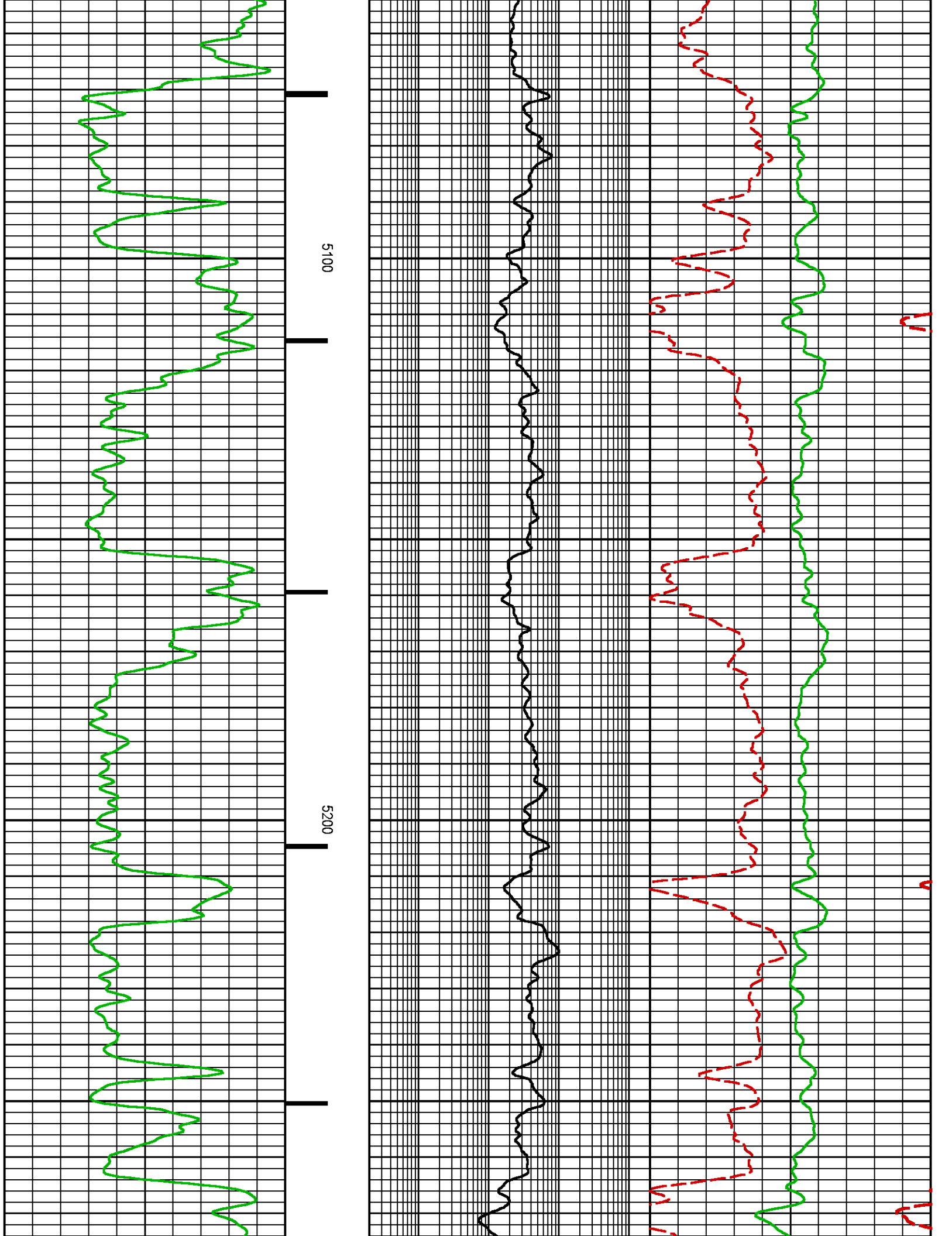
CCL	0.00	NNCNCF	0.00	NNZDEN	0.00
GRNEQ	0.00	NNM2R9	0.00		

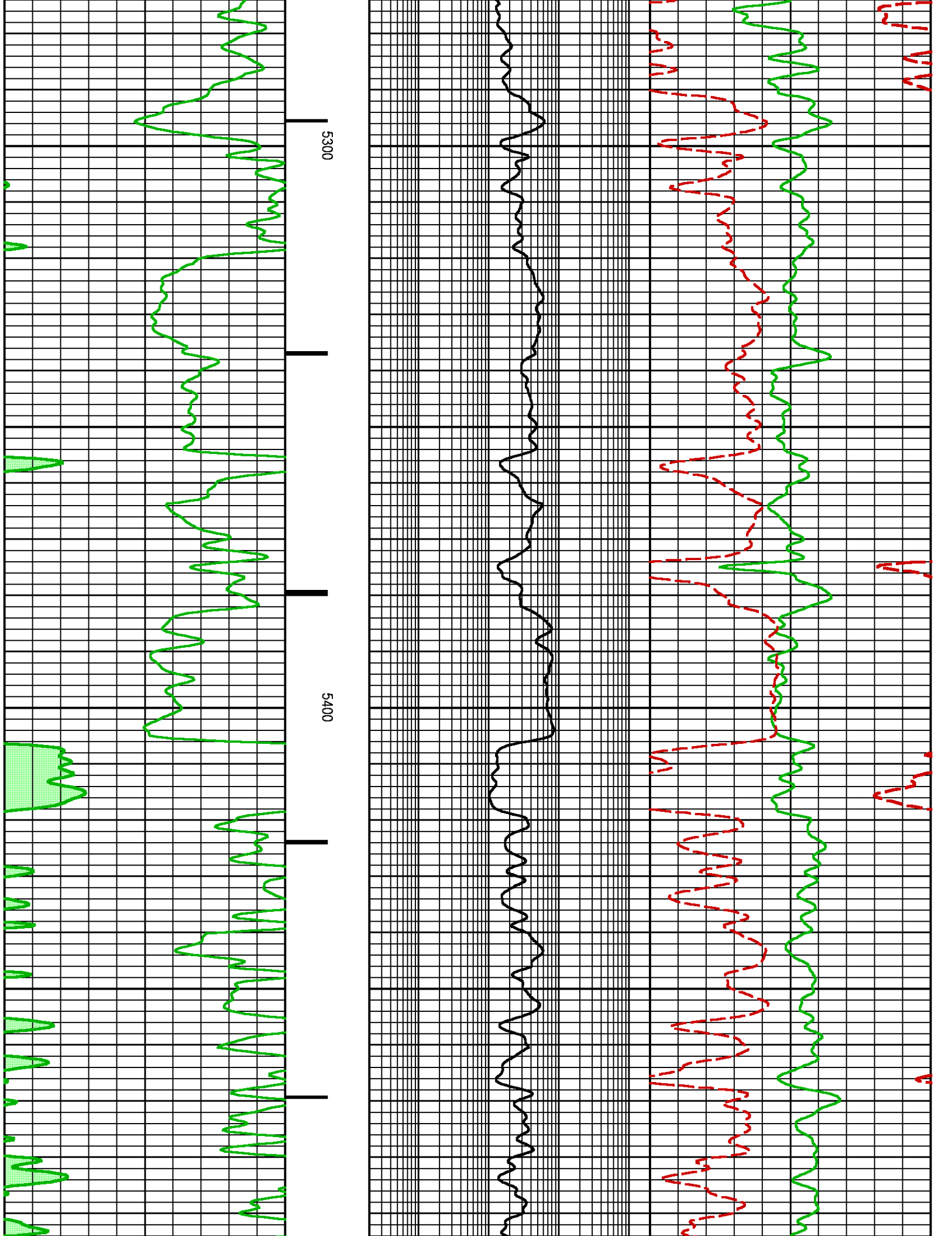
Project : NA
User : kotoale
Presentation : BHI1F65XZ1:d:\Ape_Projects\Laramie_Bruton_30_14W_NEO\NEO_PRESENTATION_LARAMIE_MAIN.pdf [5"/100' Scale]
Plot Interval : 4697 - 8035 Feet

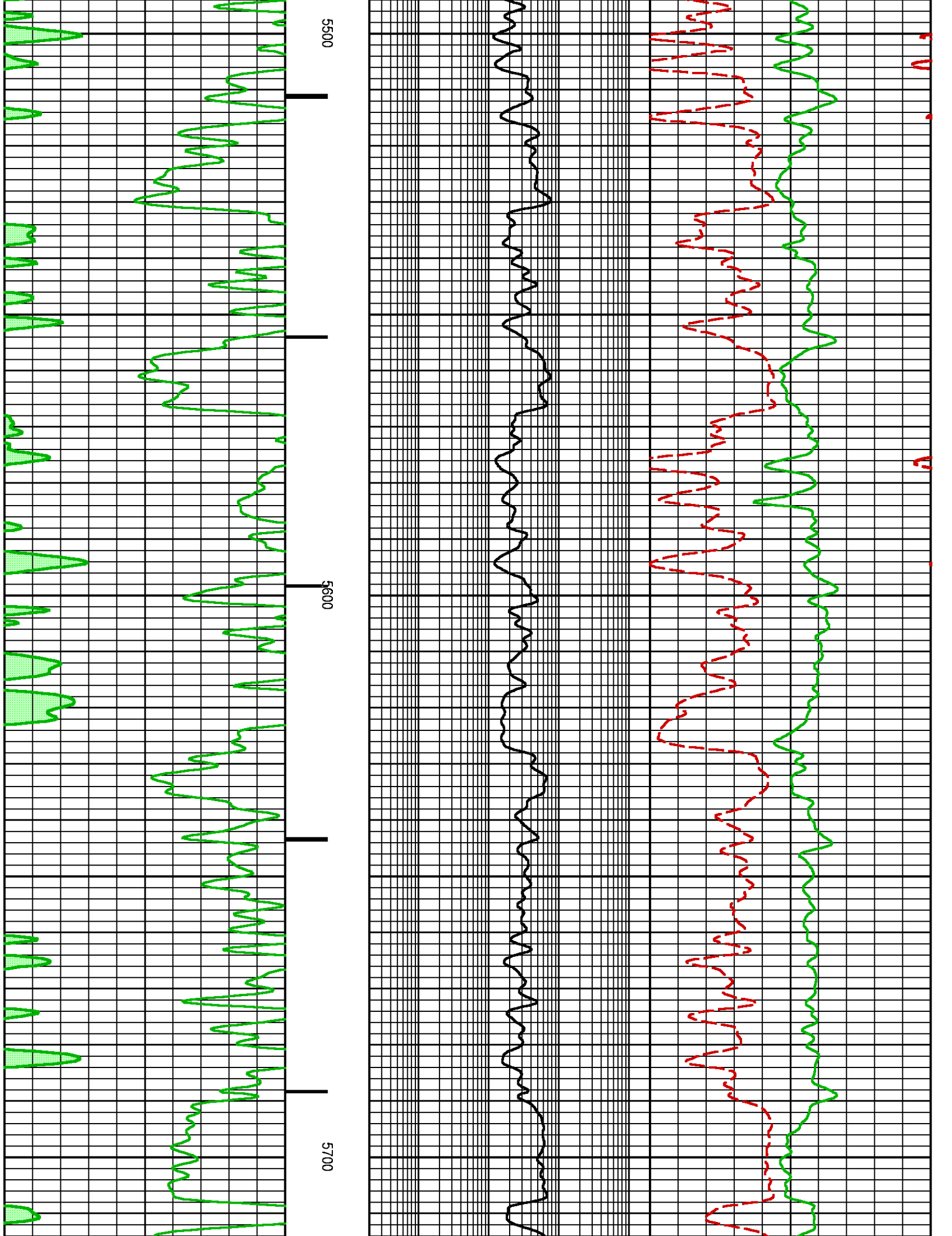
Data File 1 : F1 : BHI1F65XZ1:D:\Ape_Projects\Laramie_Bruton_30_14W_NEO\Merged_Set_Final.txt
Created On : N/A
Company : LARAMIE ENERGY LLC
Well : BRUTON 30-14W
Field : VEGA
File Interval : 2530.75 - 8030.75 Feet
OCT : NA

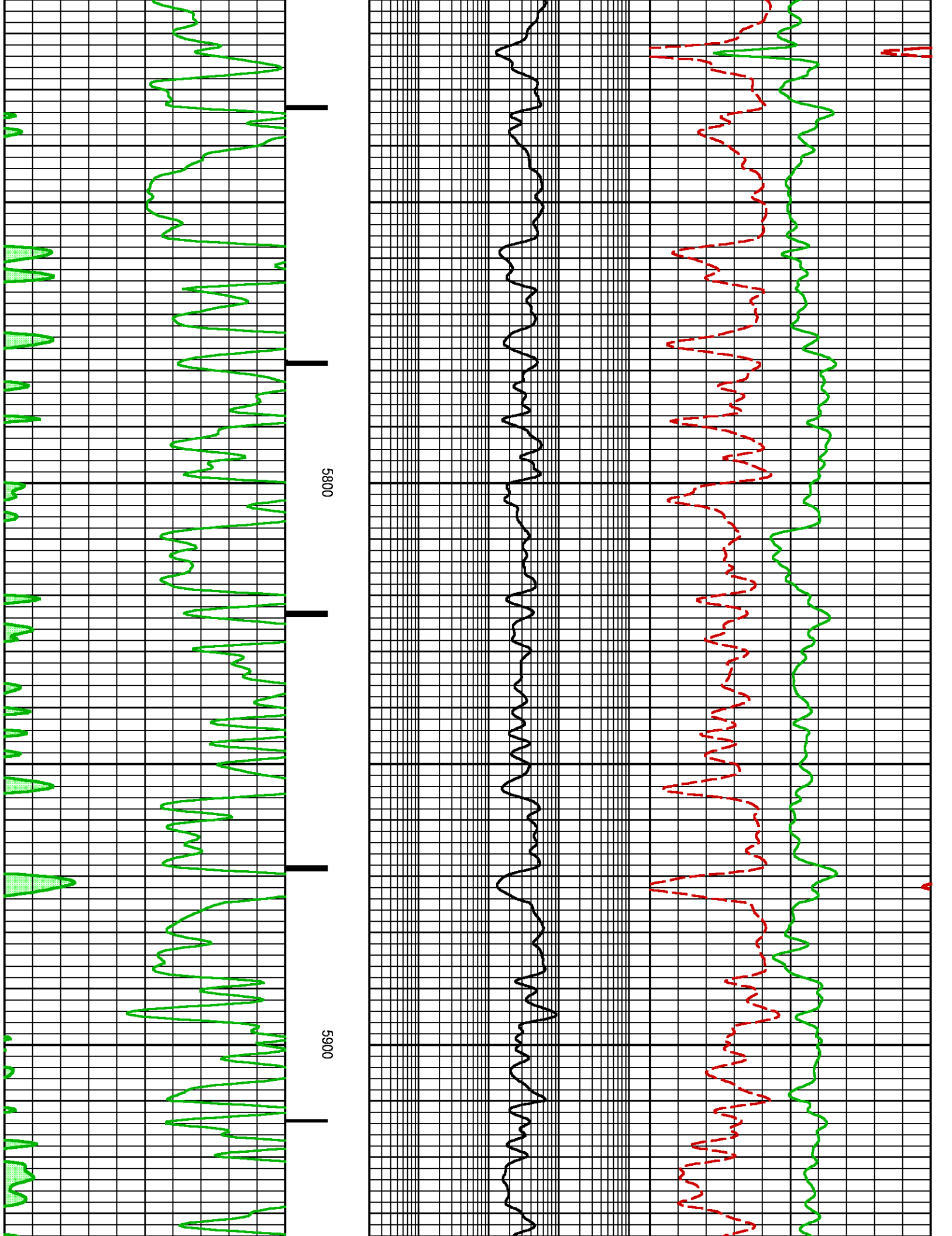


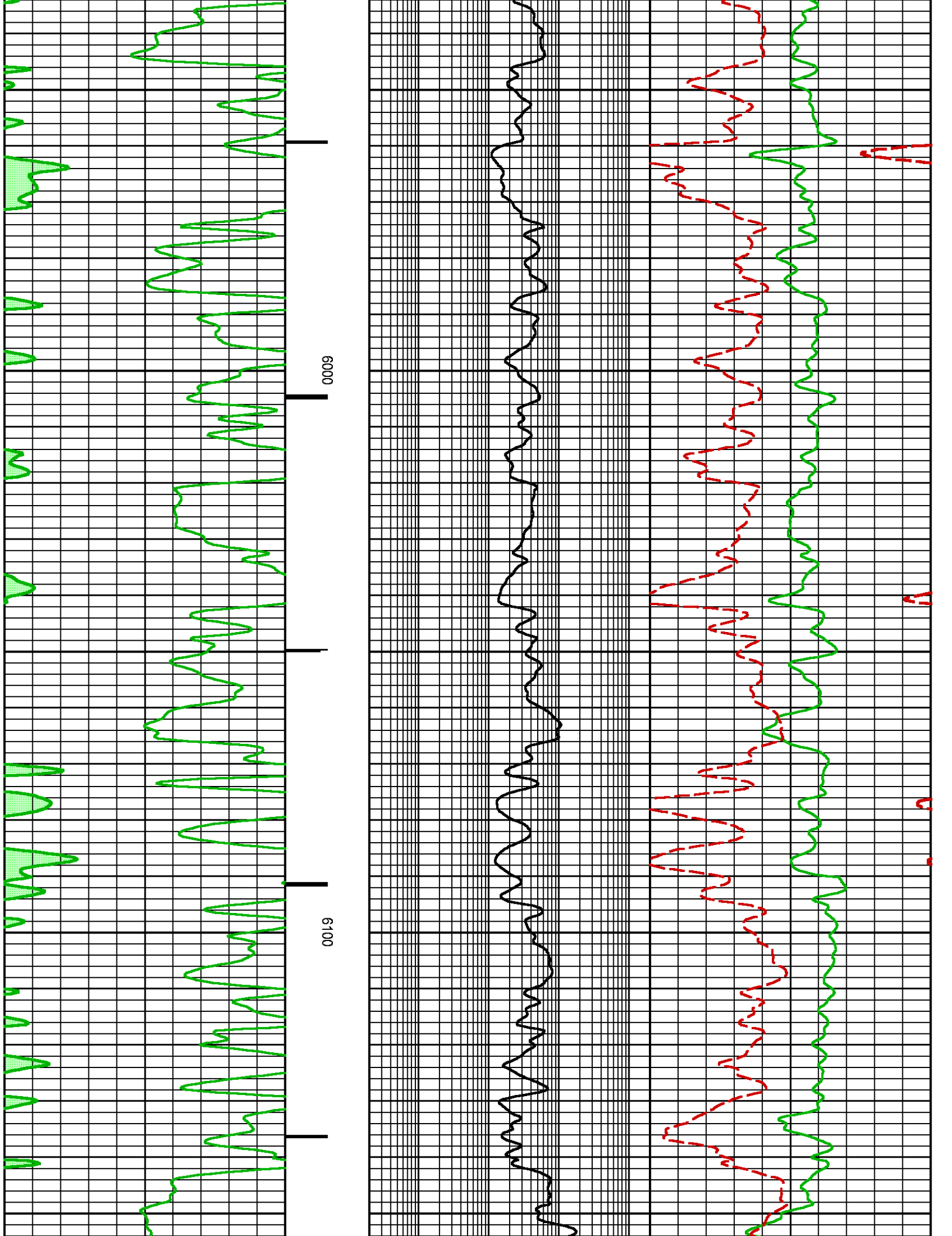


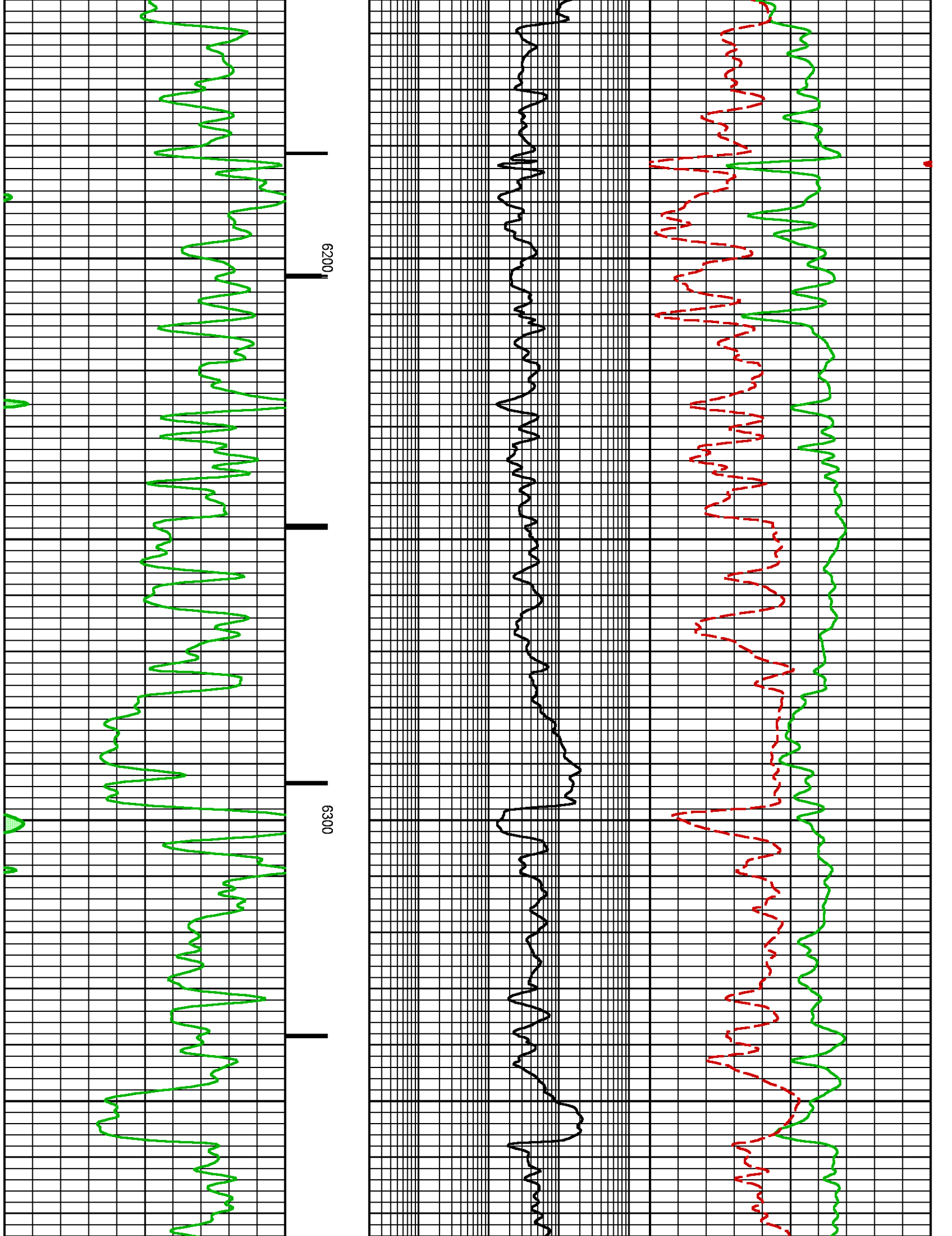


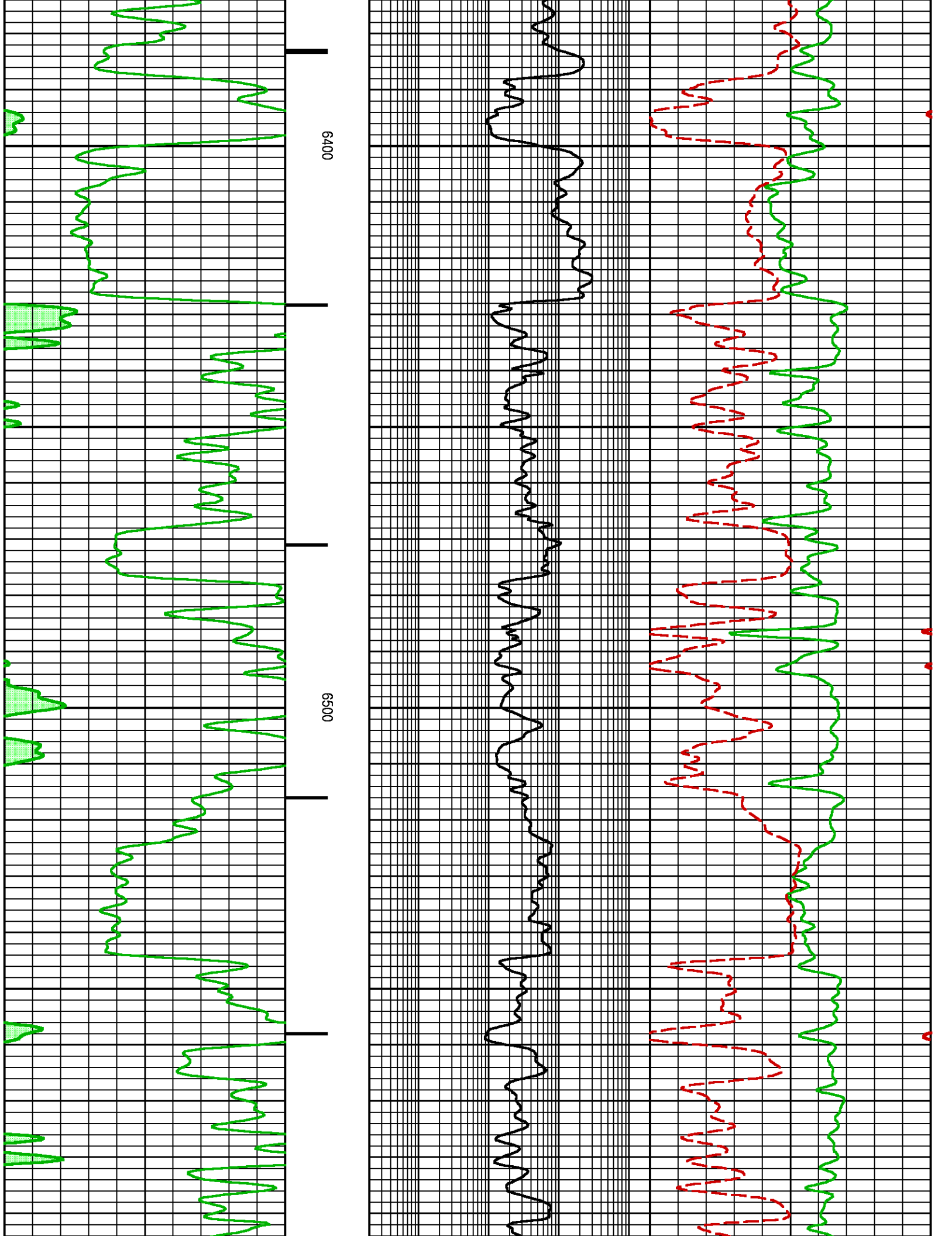


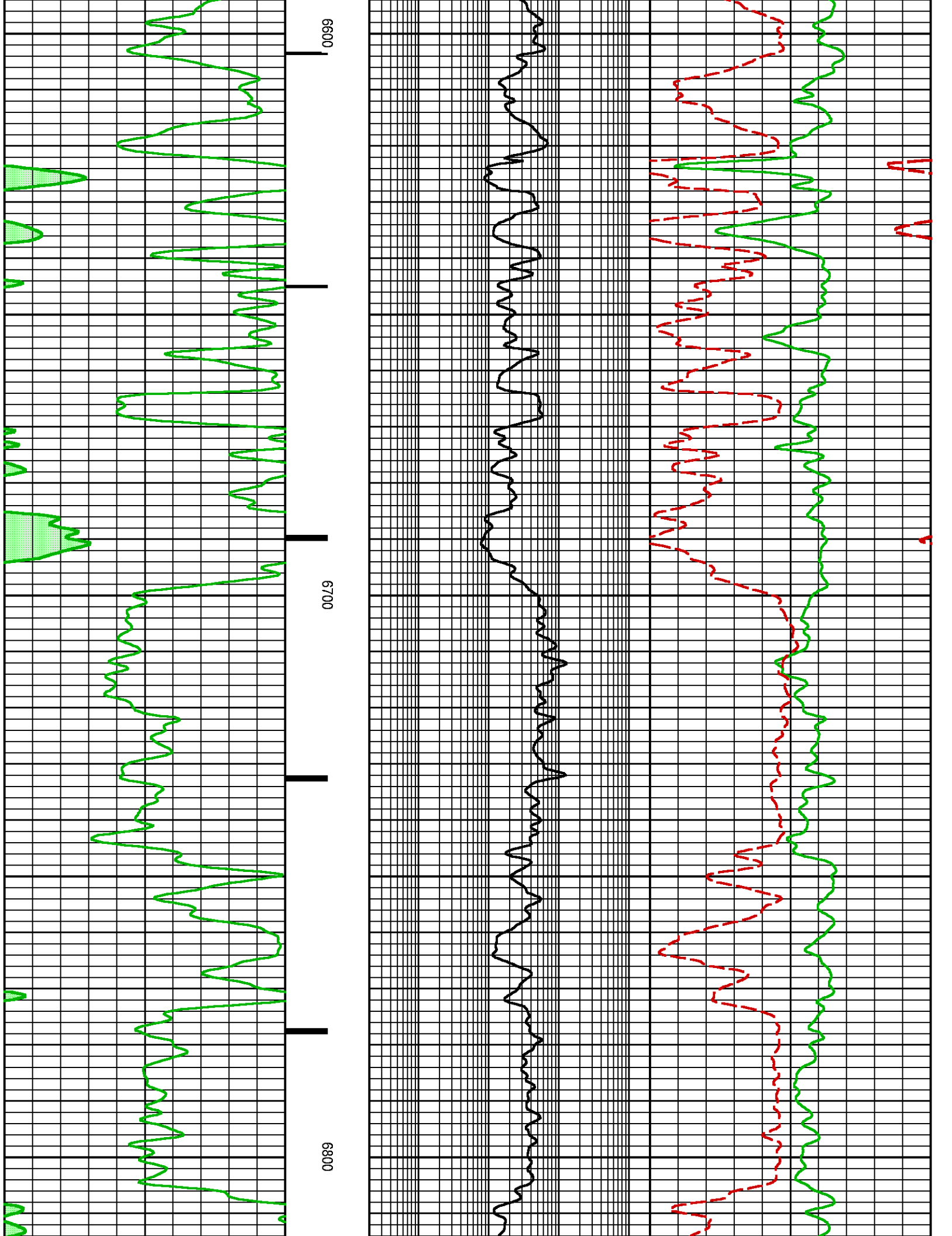


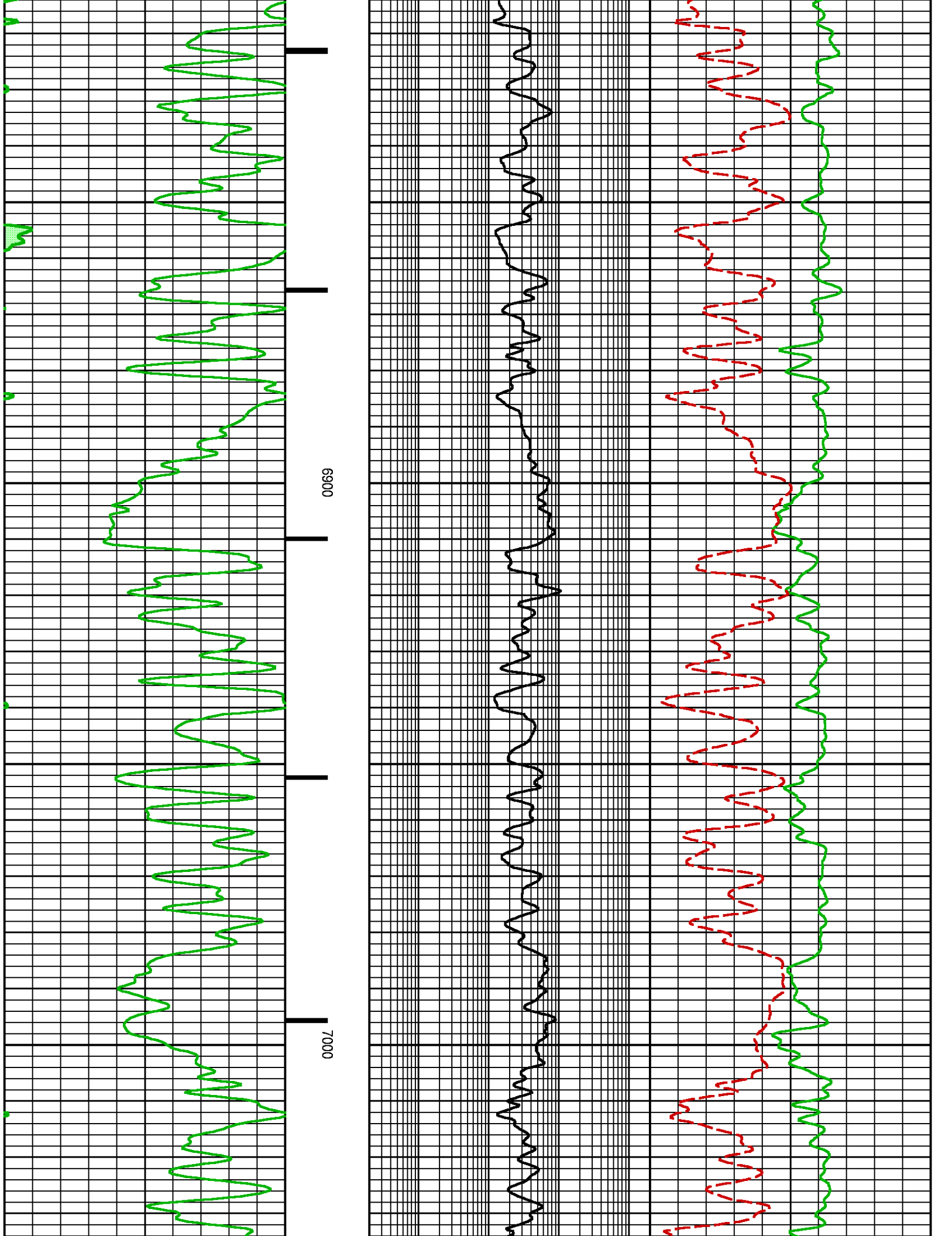


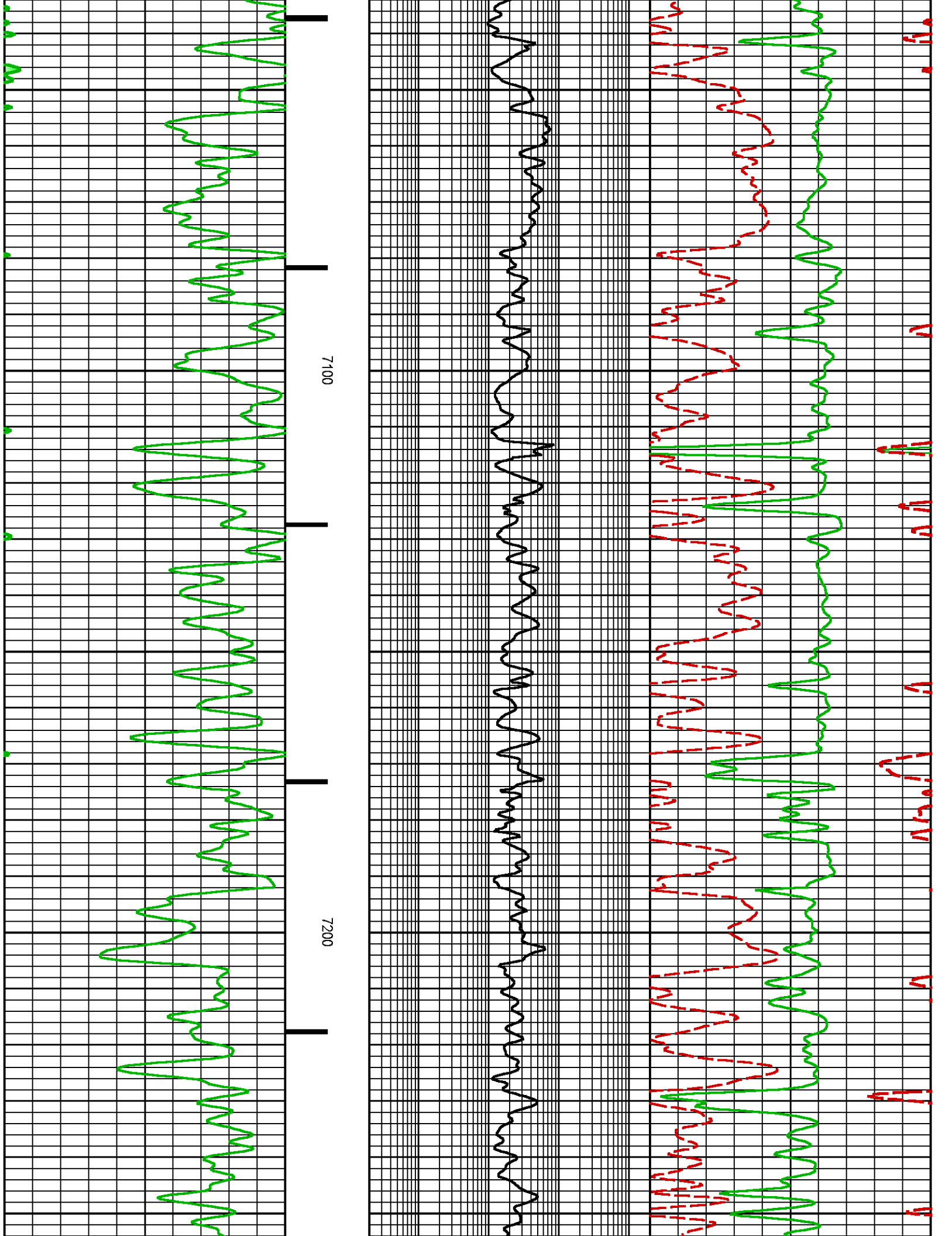


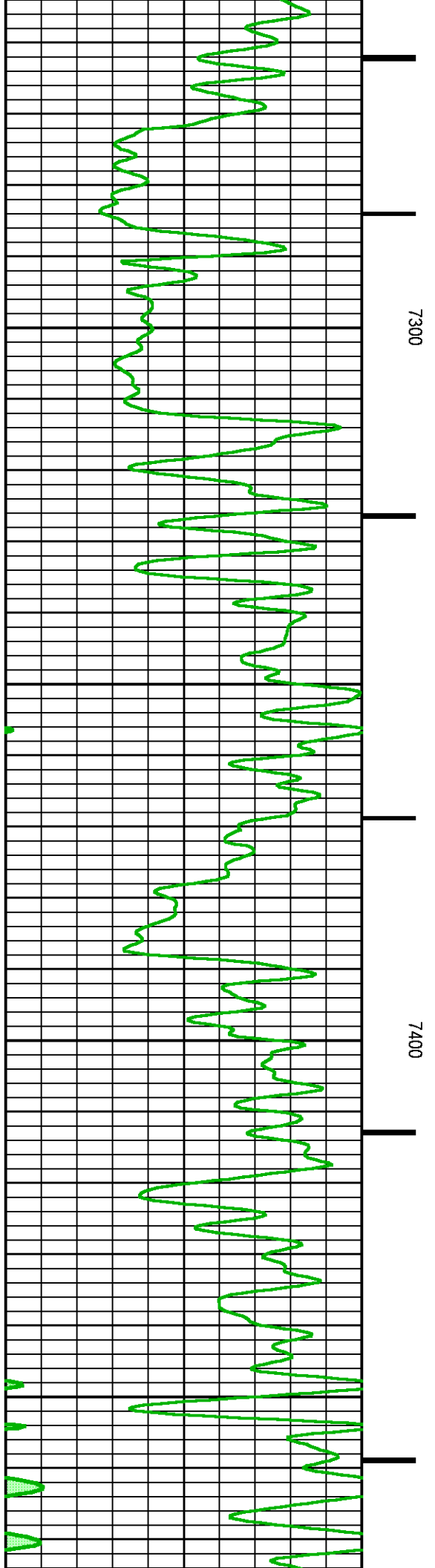
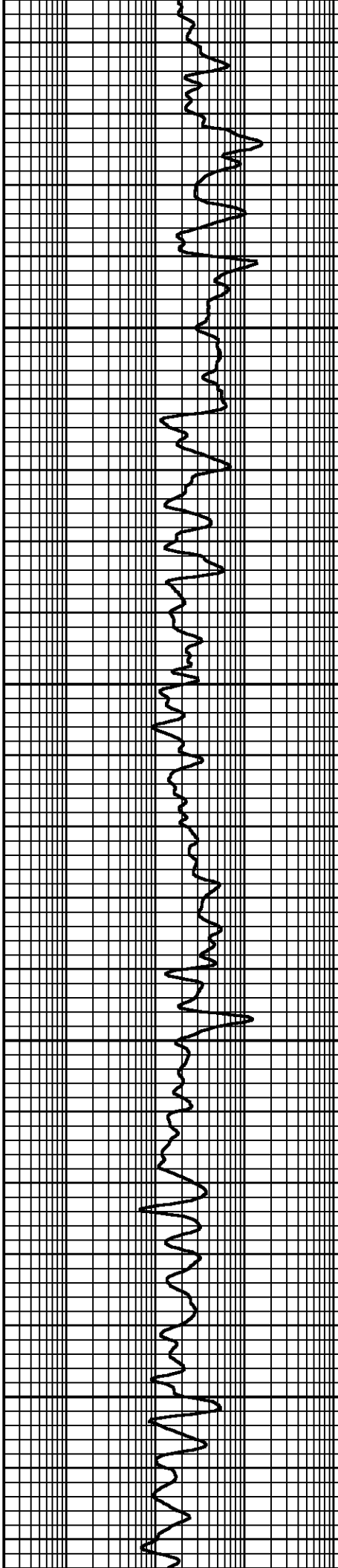
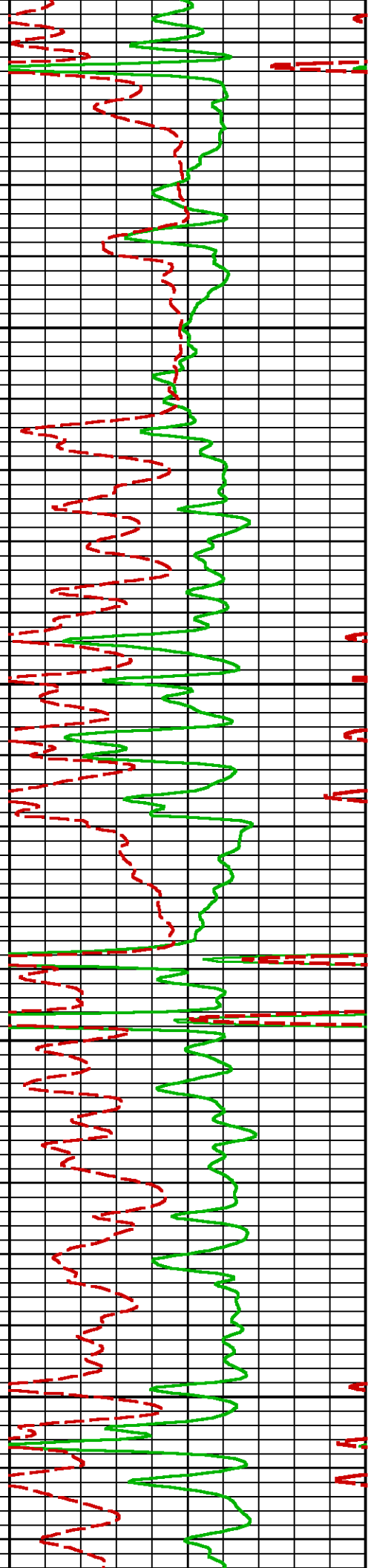


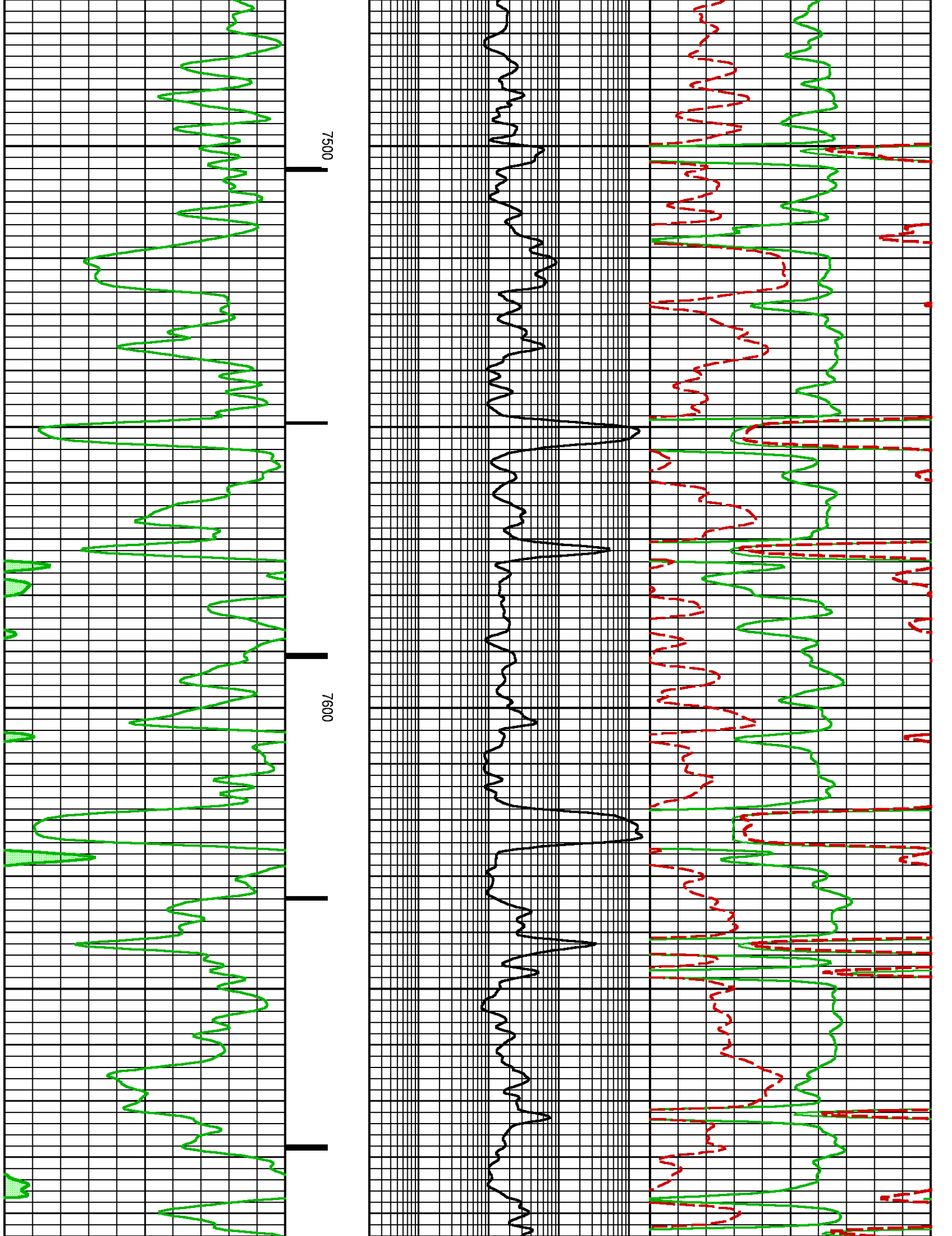


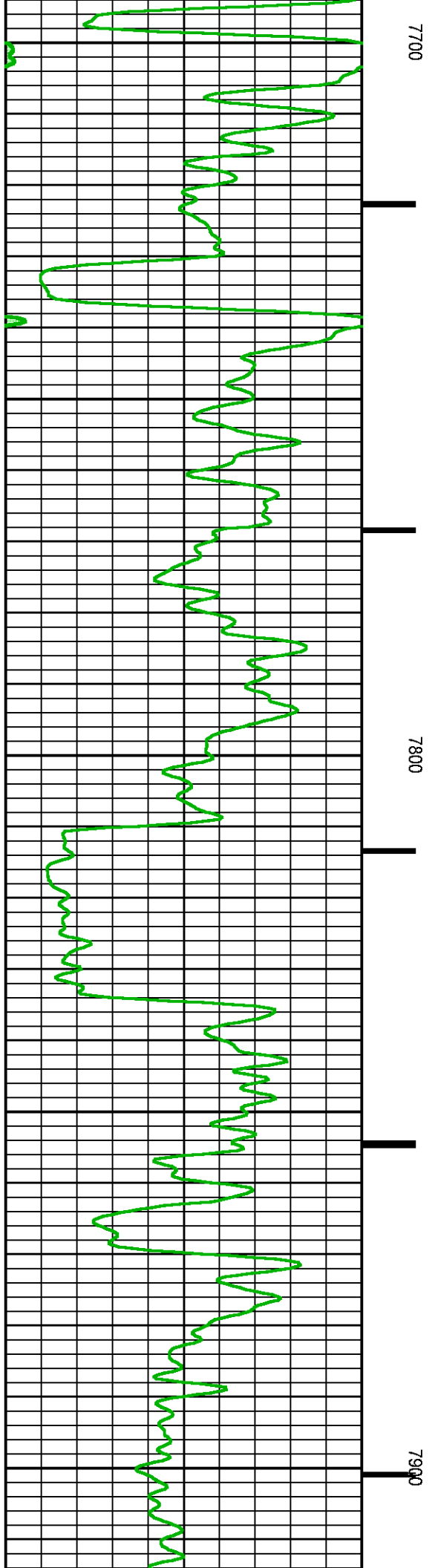
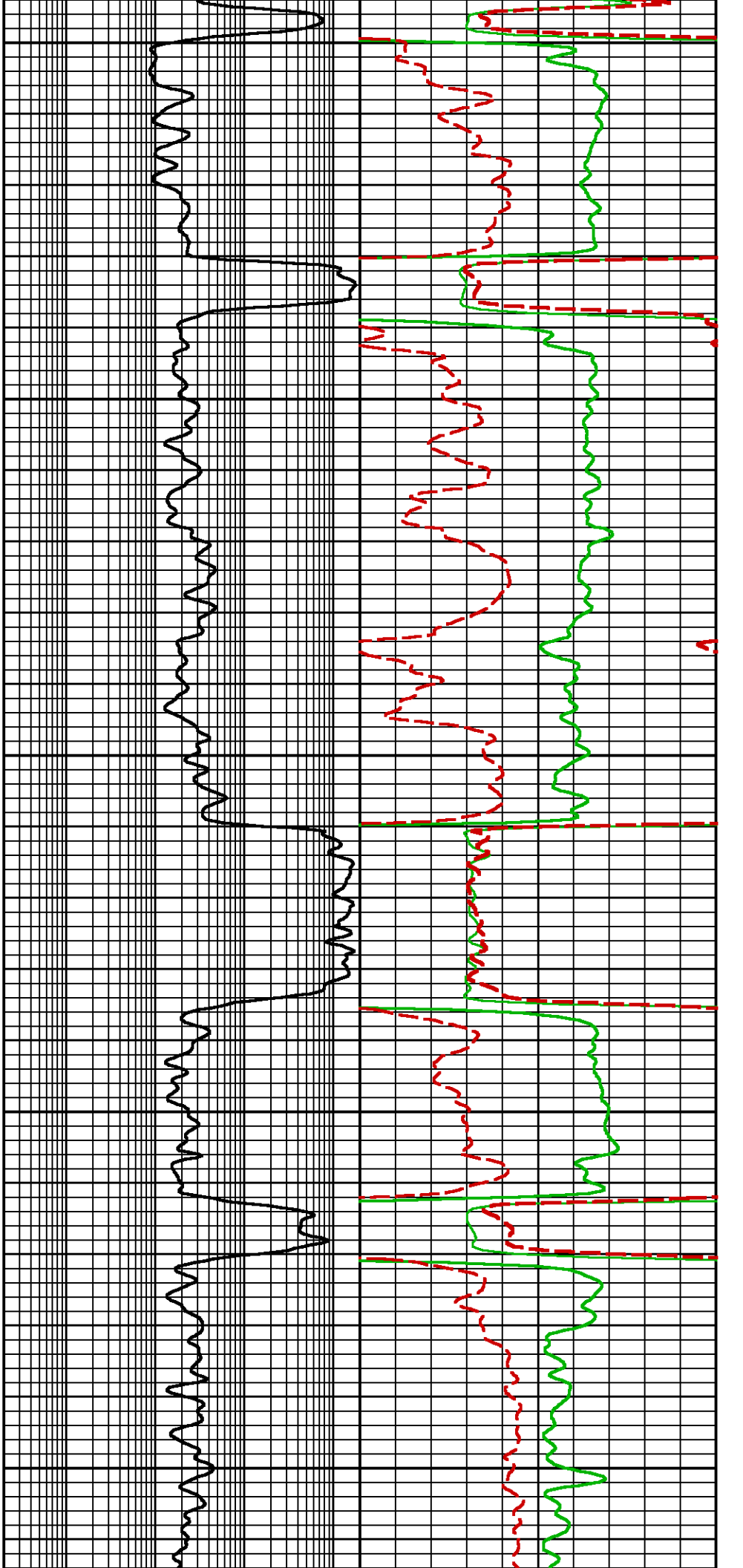


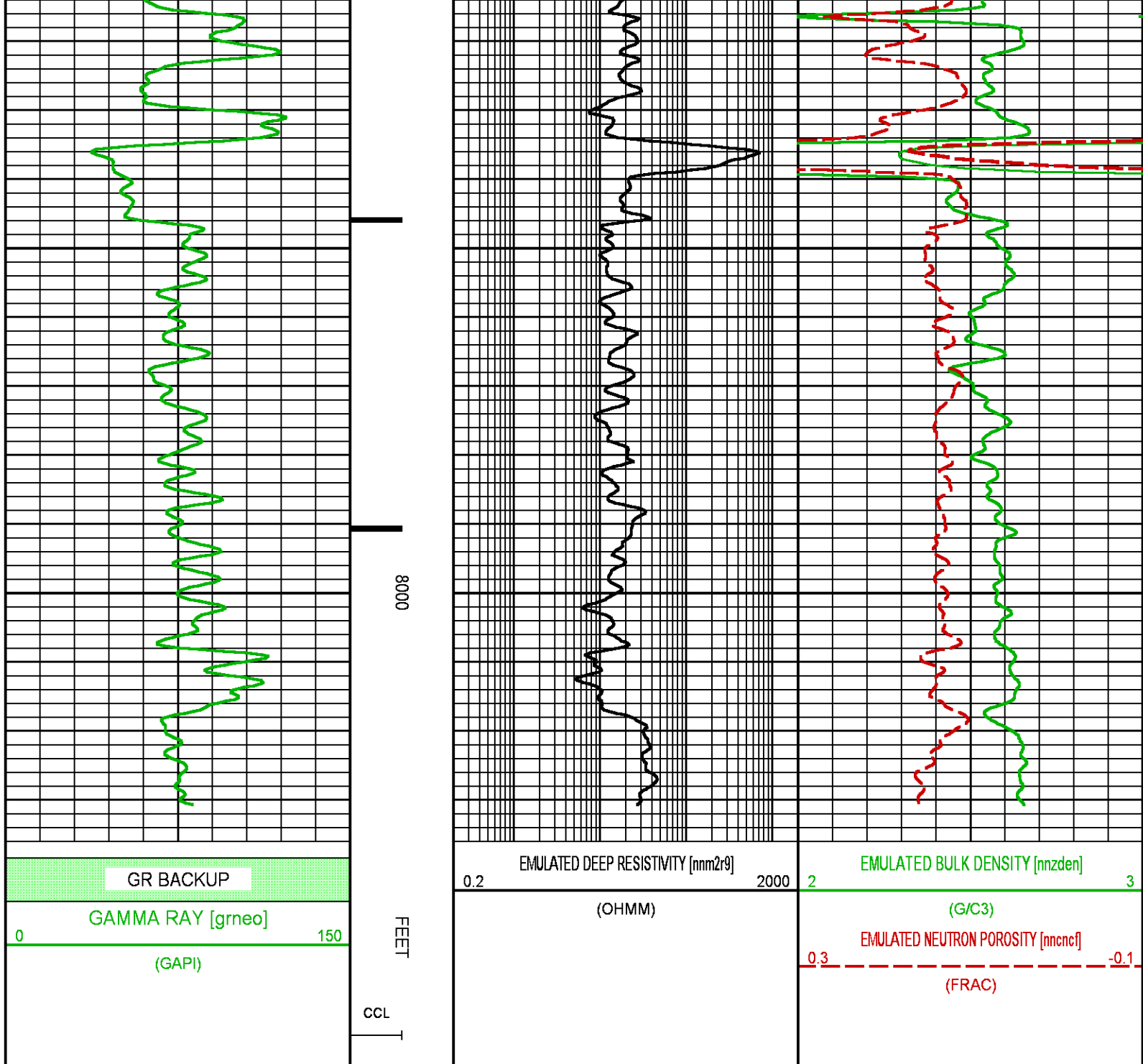












**BAKER
HUGHES**
a GE company



COMPANY
WELL
FIELD
COUNTY

LARAMIE ENERGY LLC
BRUTON 30-14W
VEGA
MESA

STATE **COLORADO**

FILE NO:

30272-01

API NO:

05077104780000

LOCATION:

SEE REMARKS SECTION

SEC **30** **TWP** **9S** **RGE** **93W**

ELEVATIONS:

KB **7673.0 FT**

DF **30.0 FT**

GL **7643.0 FT**

DATE

05-FEB-2018

**Pulsed Neutron
Formation Evaluation**

