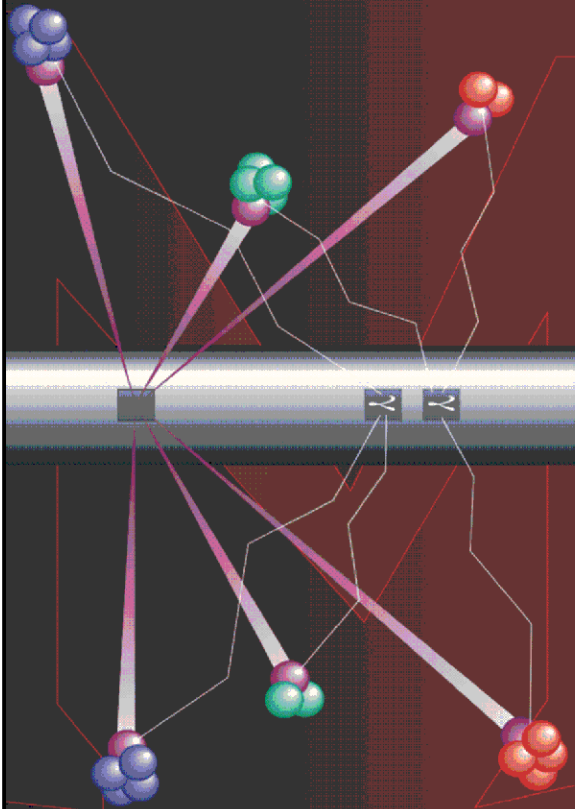


Pulsed Neutron Formation Evaluation



NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY II LLC

WELL NICHOLS 0994-24-03E

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS SECTION

SEC 24 TWP 9S RGE 94W

ELEVATIONS:

KB 7161 FT DF GL 7137 FT

DATE 08-Mar-2018 ECC US132626J

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-Mar-2018</u>
FIELD DATA	LOCATION: <u>GRAND JUNCTION</u>	ENGINEER: <u>W. QUIGLEY/US132626J</u>	DATE: <u>08-Mar-2018</u>

FROM	TO								
<u>2350 FT</u>	<u>7595 FT</u>								

REMARKS

LOCATION:
SHL 1804' FNL 2785' FEL
BHL 589' FNL 1521' FEL

TRAINING WELL: NICHOLS 0994-24-06W

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

ANALYST: ALEXANDR KOTOV

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
2	1	TELEMETRY	8248 EA/8250 ED	111745584/10193585	FREE
2	1	GR	8262 XA	10317216	FREE
2	1	RPM ELEC	8281 EA	10179238	FREE
2	1	RPM	8283 PA/8281 FA	10190200/10318654	FREE
2	1	TEMP	8255 XA	11774568	FREE

NEO RESULTS FOR NICHOLS 0994-24-03E (G-SAND)

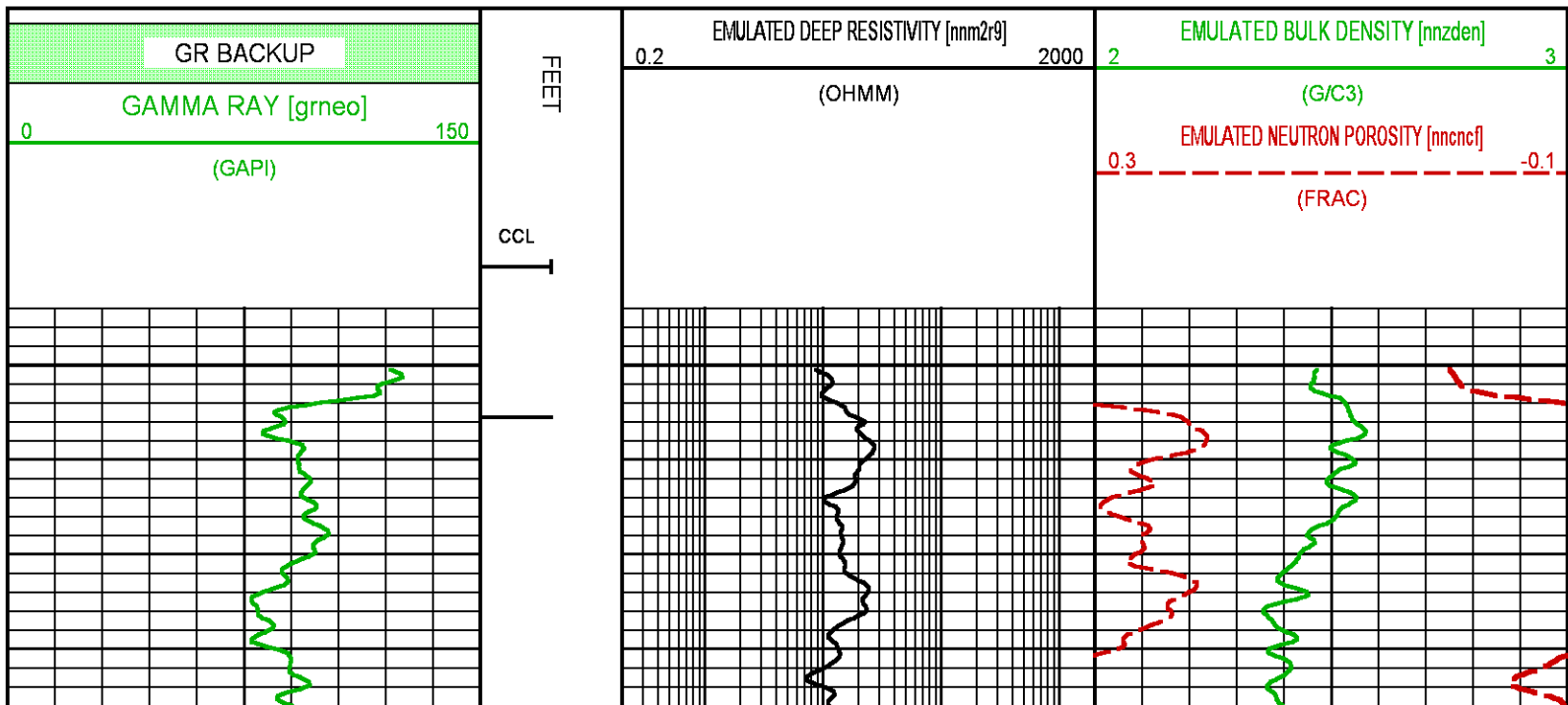
ECLIPS ECPLLOT from ECLIPS 7.0 WFM 5.0.7343.1 Sun 02/07/2016 16:48:51.73

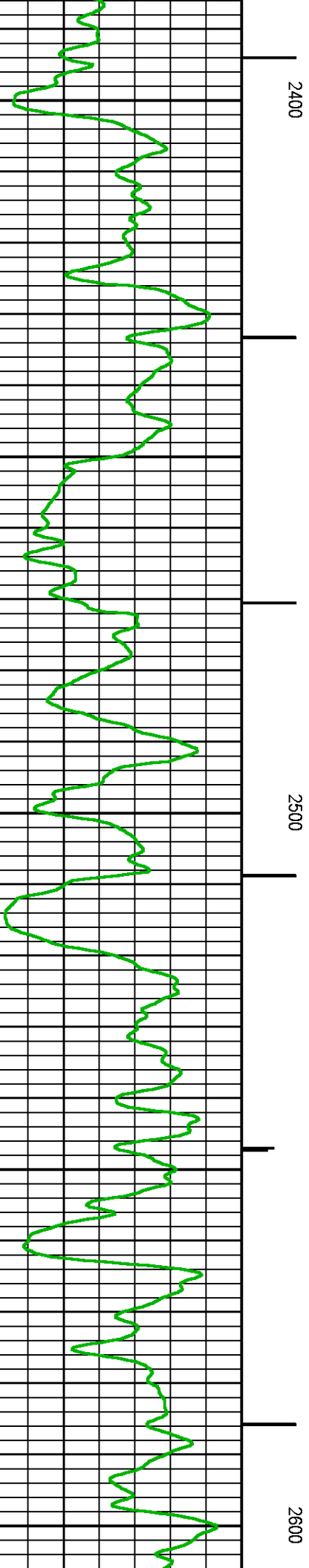
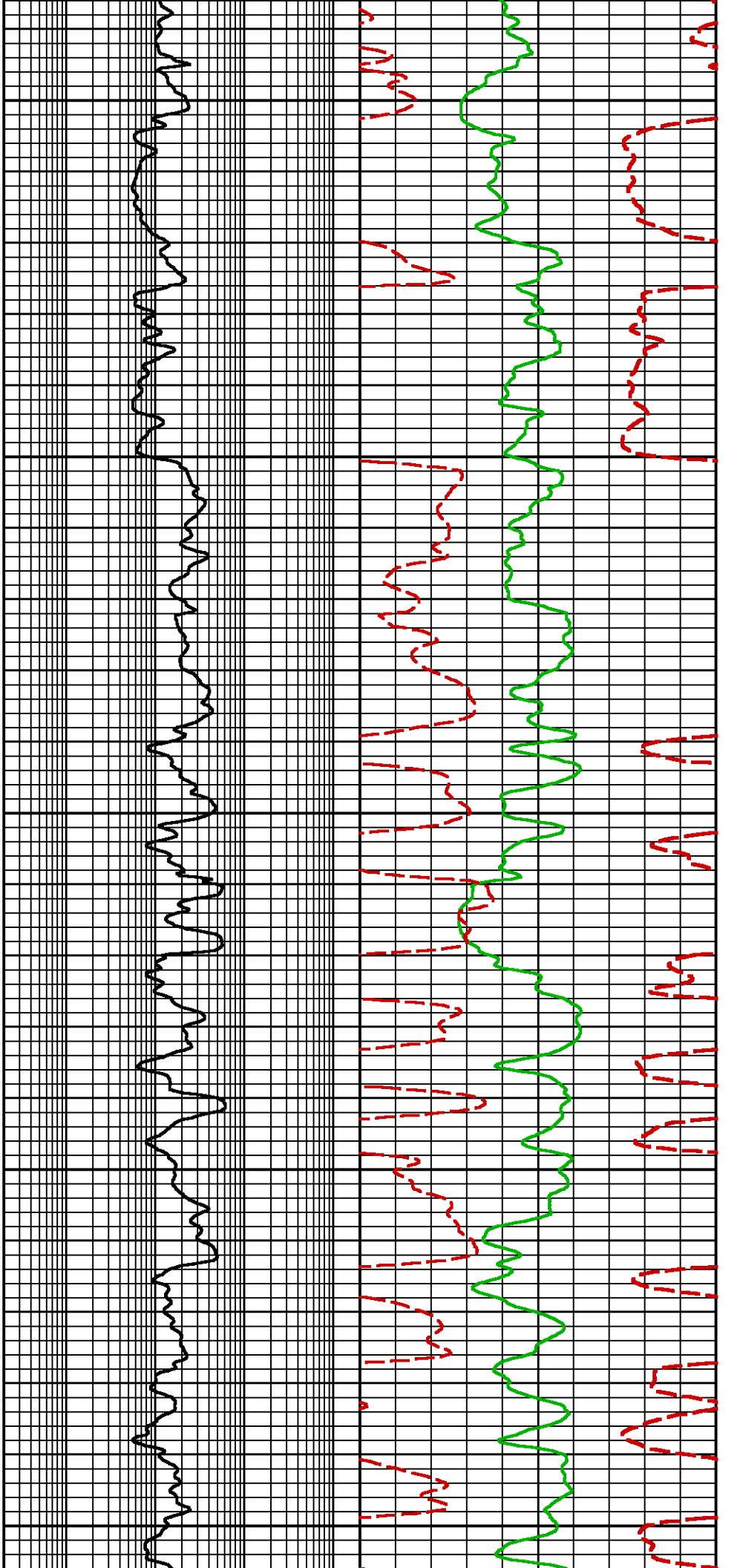
Plotted: Sat Mar 10 17:26:26 2018

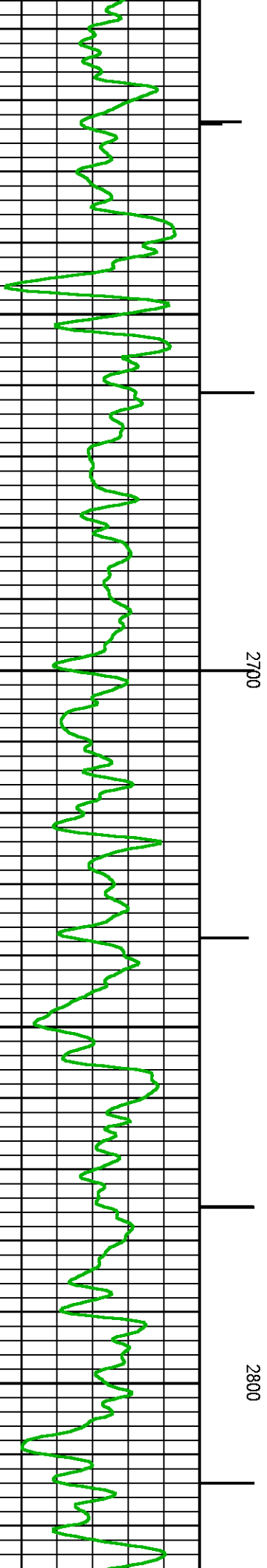
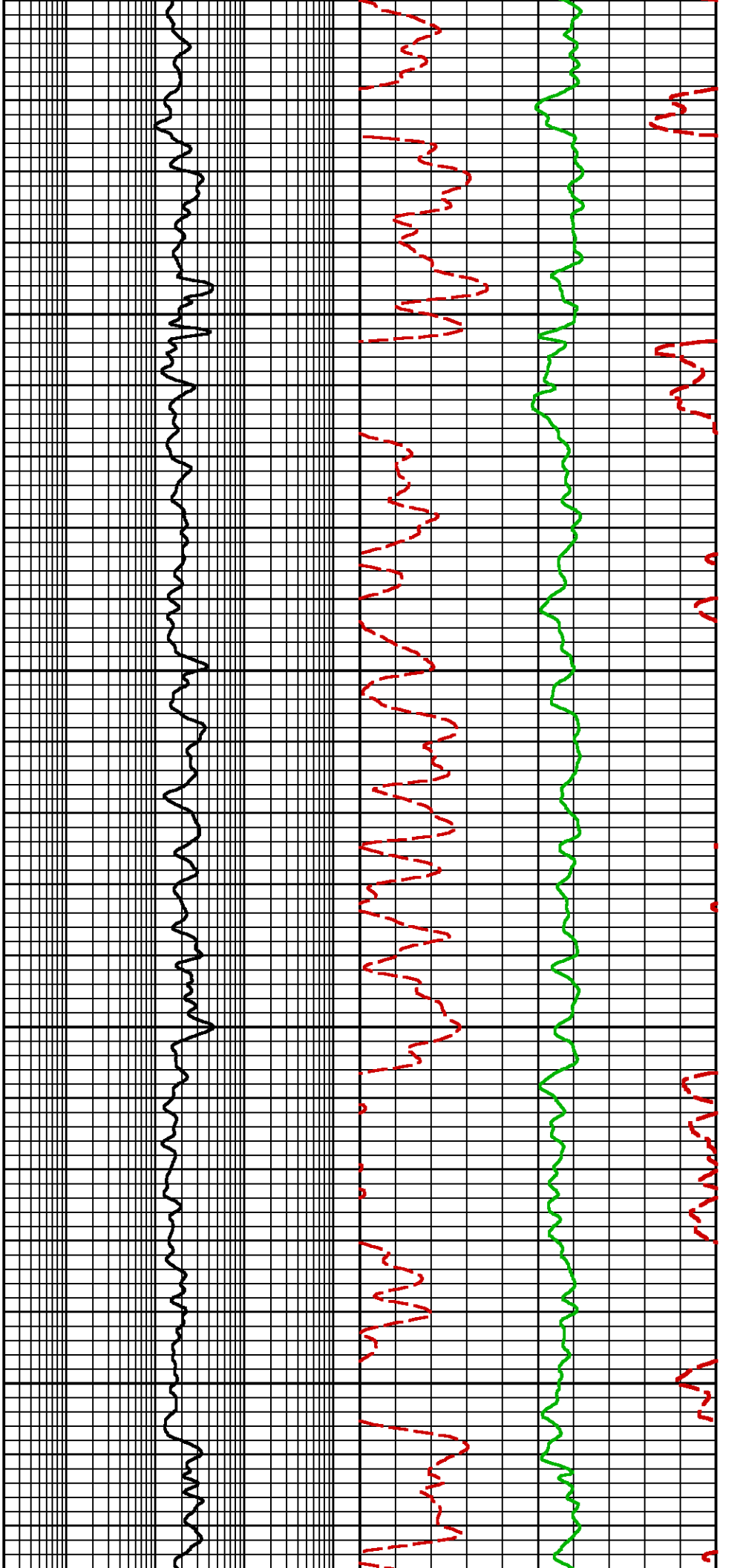
CURVE MEASURE POINT OFFSET

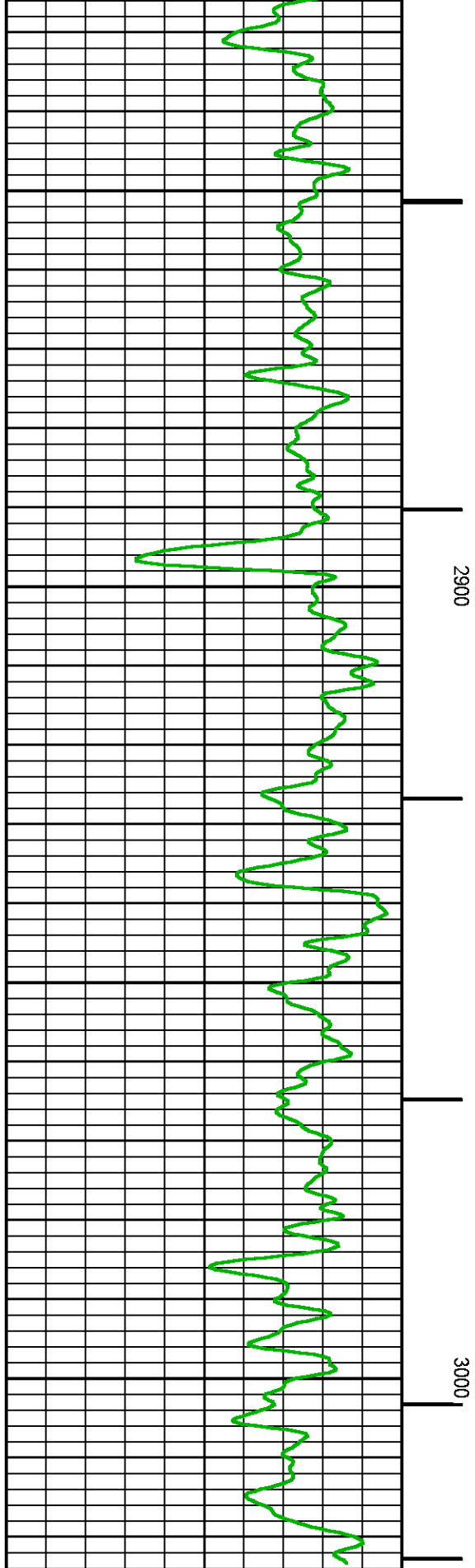
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNCf	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

Project : NA
 User : kotoale
 Presentation : BHI1F65XZ1:D:\Ape_Projects\Laramie_NICHOLS_0994_24_03E_NEO\NEO_PRESENTATION_LARAMIE_G-Sand.pdf [5"/100" Scale]
 Plot Interval : 2345 - 3024 Feet
 Data File 1 : F1 : BHI1F65XZ1:D:\Ape_Projects\Laramie_NICHOLS_0994_24_03E_NEO\Merged_Set_Final.txt
 Created On : N/A
 Company : LARAMIE ENERGY II LLC
 Well : AW
 Field : VEGA
 File Interval : 2324 - 7614 Feet
 OCT : NA









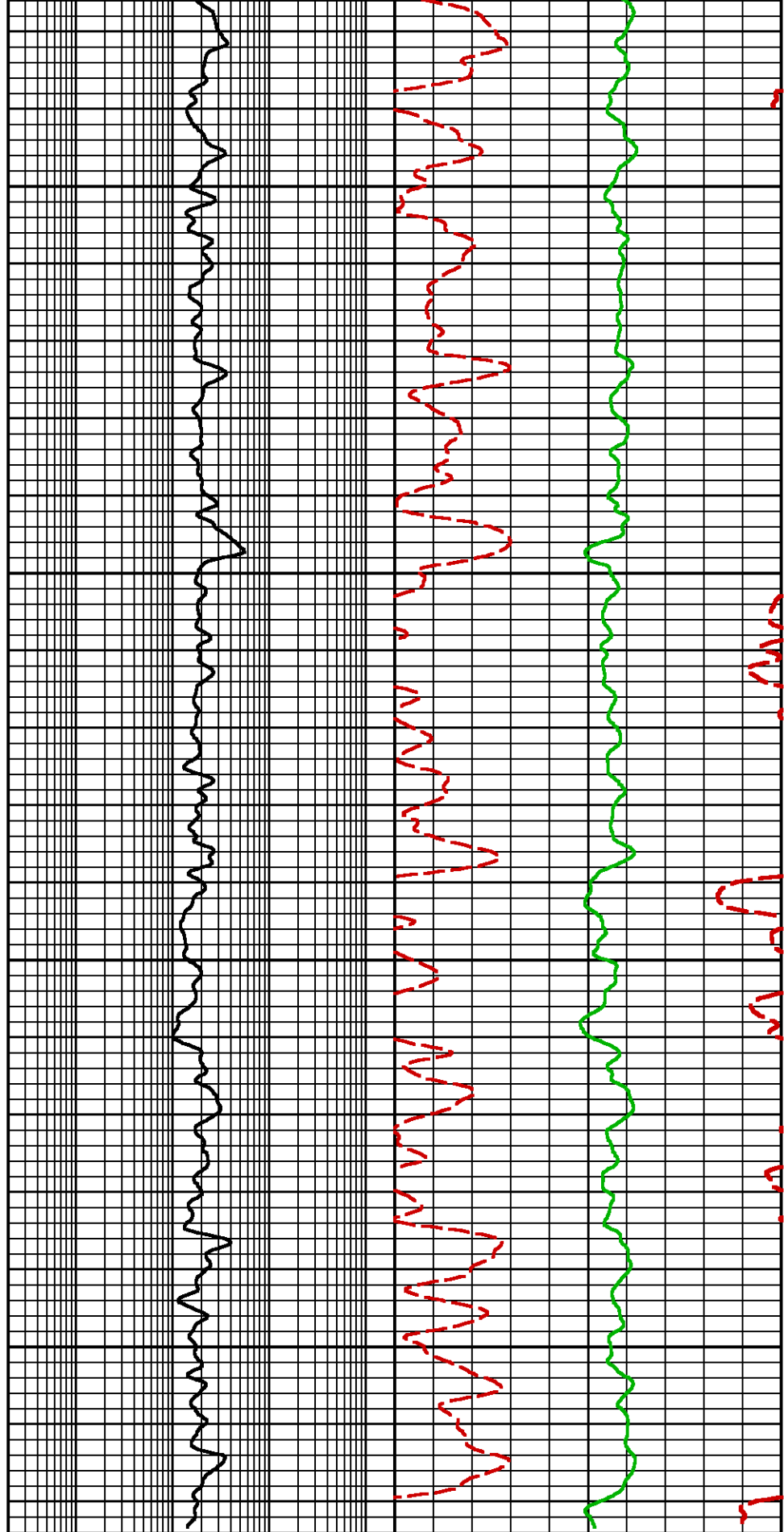
GR BACKUP

GAMMA RAY [grneo]

(GAPI)

0 150

FEET



EMULATED DEEP RESISTIVITY [nm2r9]

(OHMM)

0.2 2000

EMULATED BULK DENSITY [nnzden]

(G/C3)

2 3

EMULATED NEUTRON POROSITY [nnncnl]

(FRAC)

0.3 -0.1

CCL

NEO RESULTS FOR NICHOLS 0994-24-03E (MAIN)

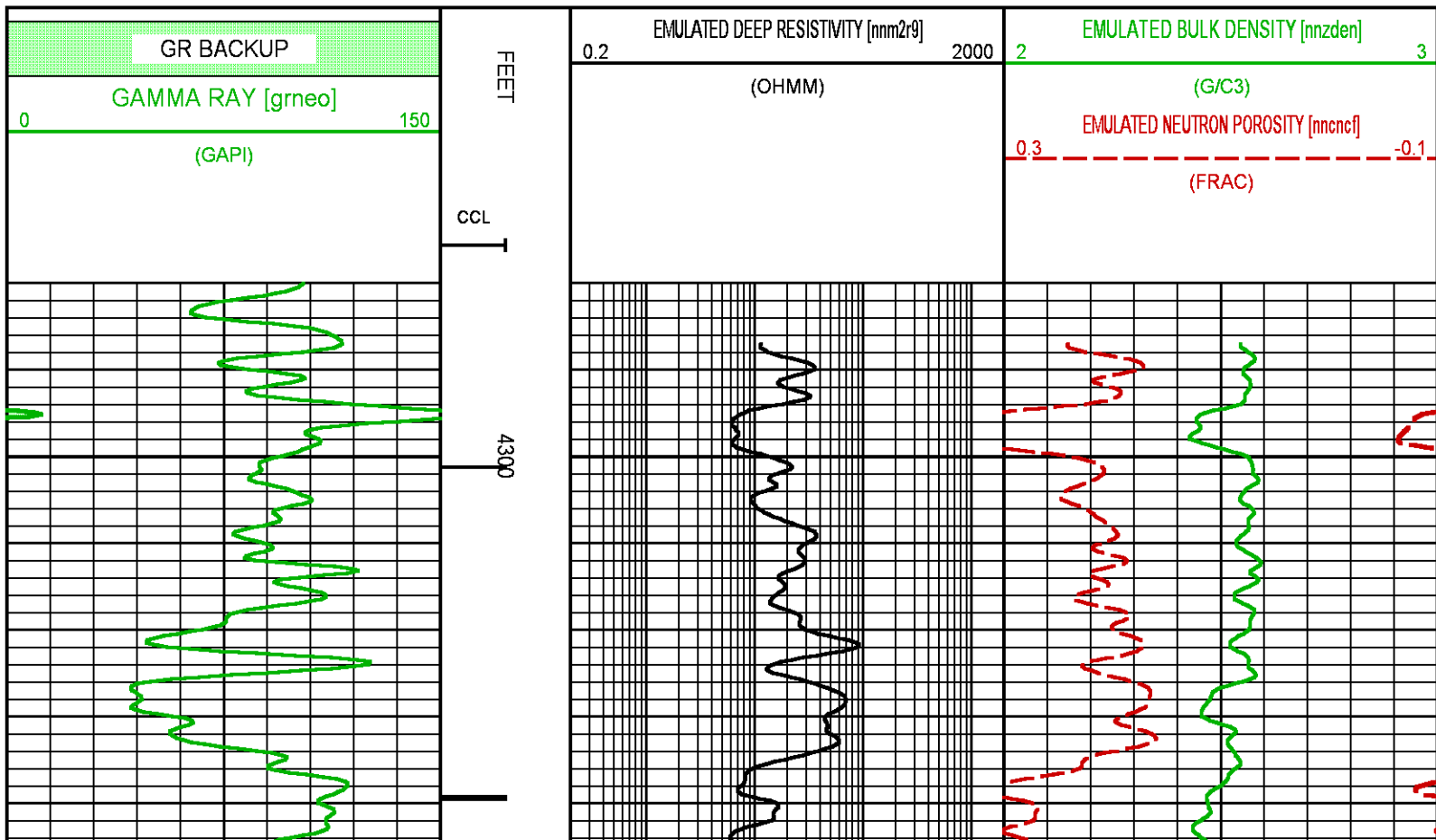
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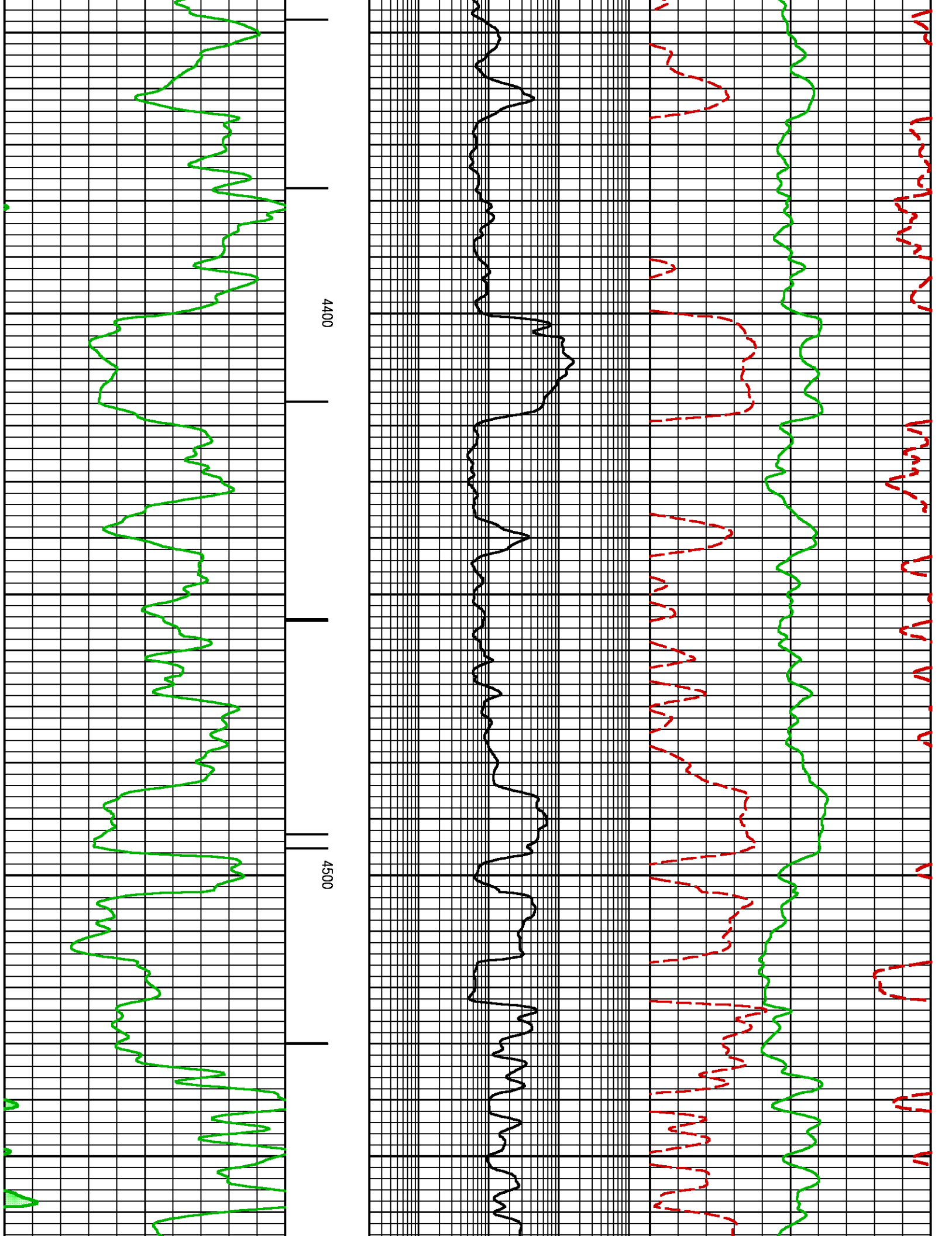
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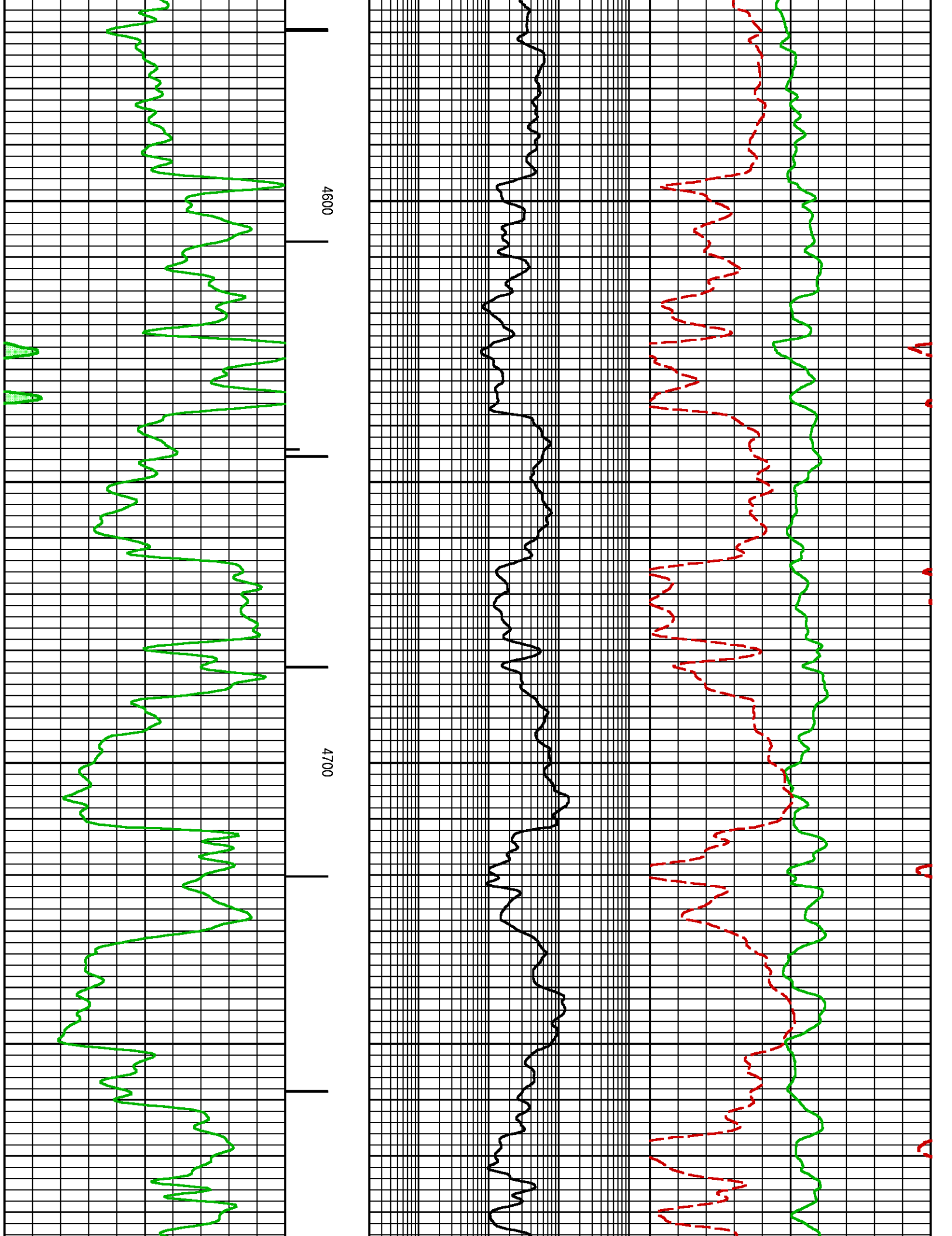
CURVE MEASURE POINT OFFSET

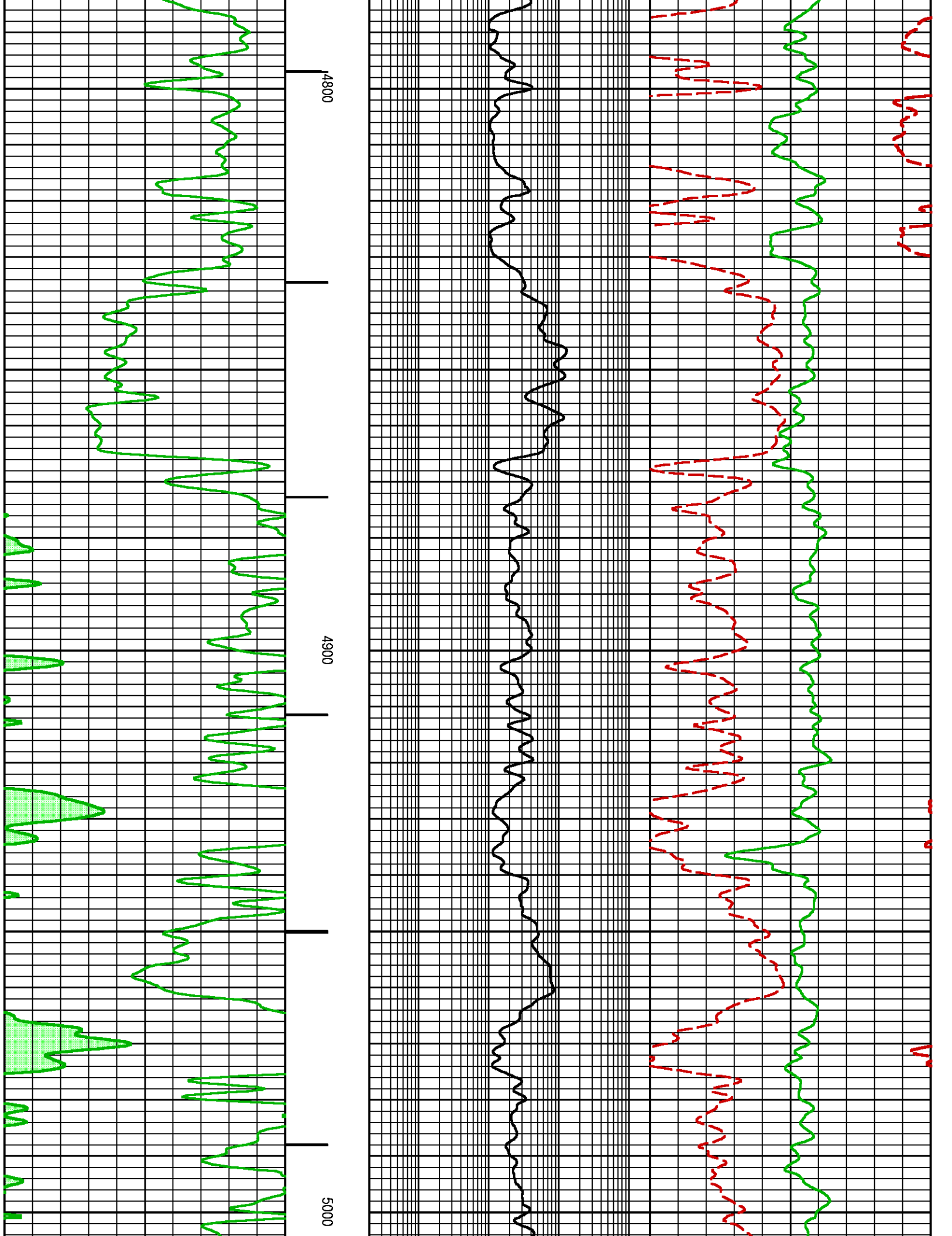
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNCf	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

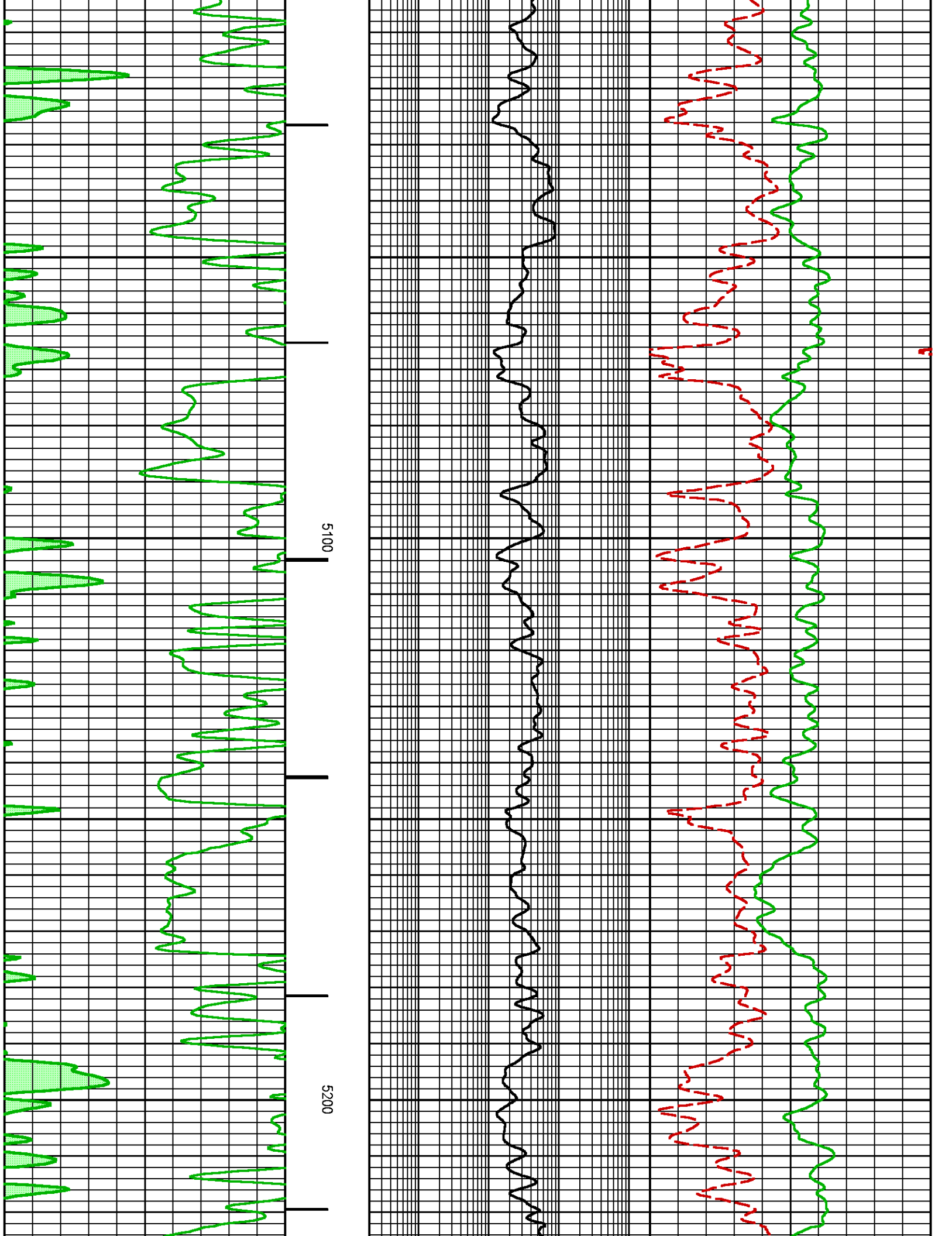
Project : NA
User : kotoale
Presentation : BHI1F65XZ1:D:\Ape_Projects\Laramie_NICHOLS_0994_24_03E_NEO\NEO_PRESENTATION_LARAMIE_MAIN.pdf [5"7'100' Scale]
Plot Interval : 4280 - 7614 Feet
Data File 1 : F1 : BHI1F65XZ1:D:\Ape_Projects\Laramie_NICHOLS_0994_24_03E_NEO\Merged_Set_Final.xtf
Created On : N/A
Company : LARAMIE ENERGY II LLC
Well : AW
Field : VEGA
File Interval : 2324 - 7614 Feet
OCT : NA

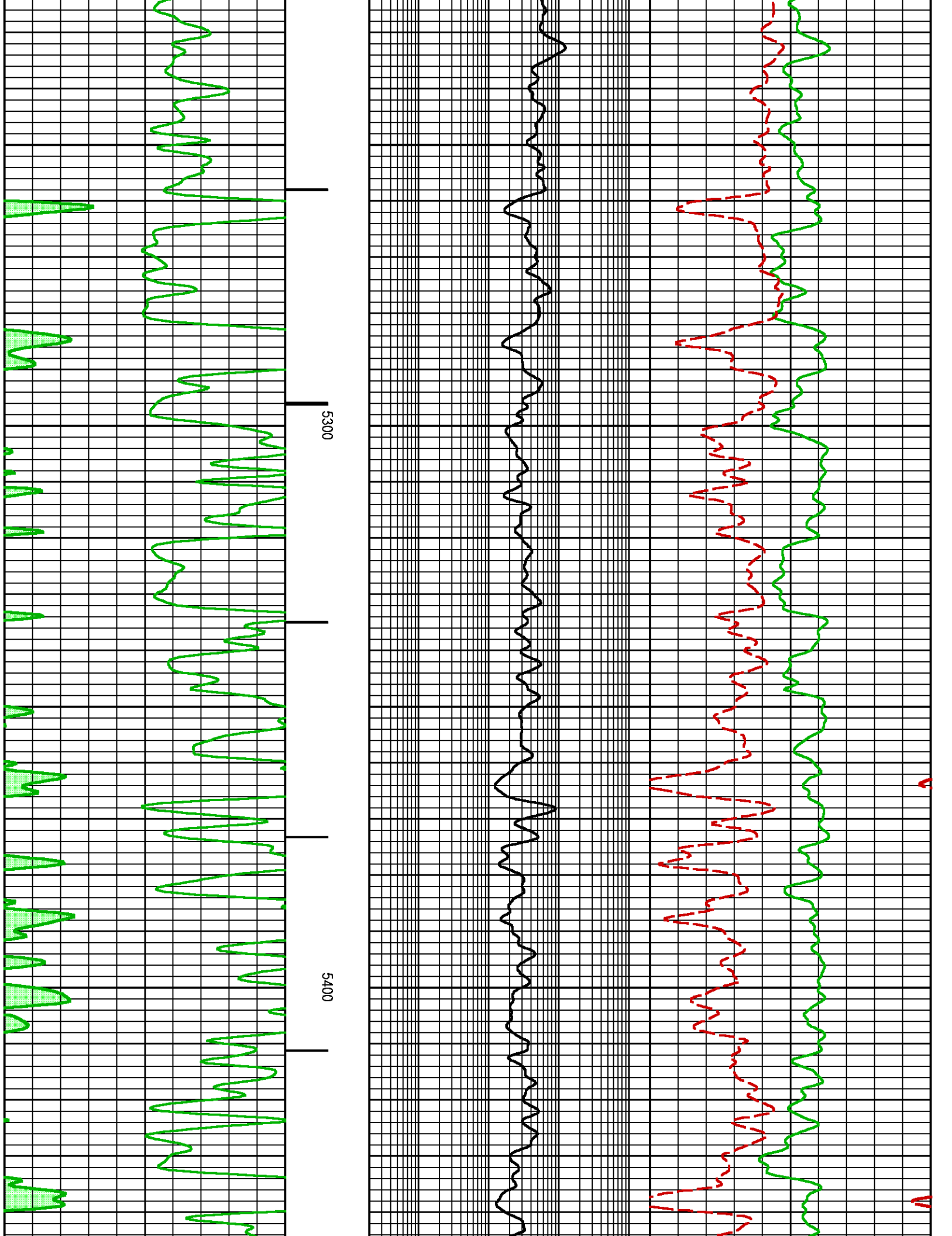


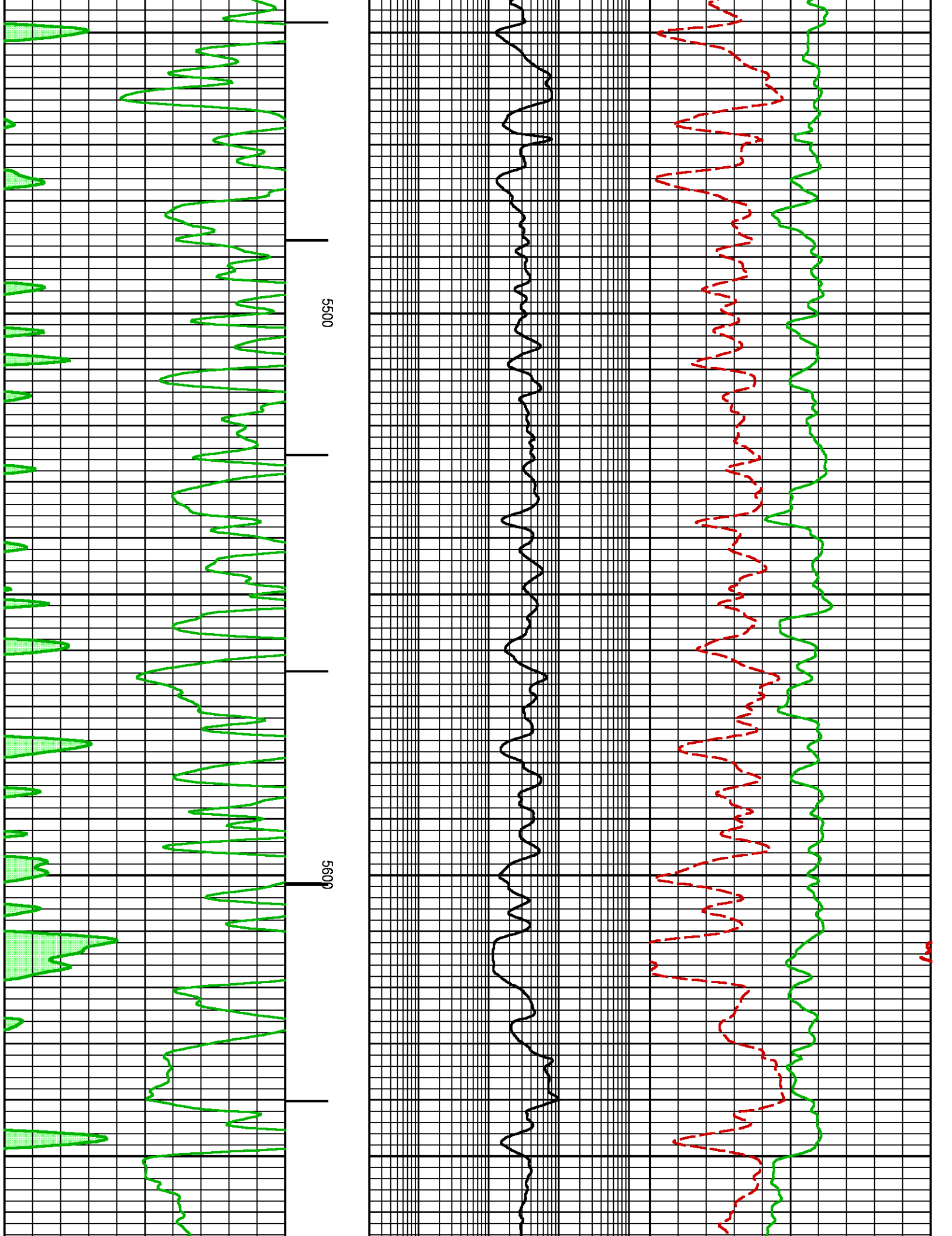


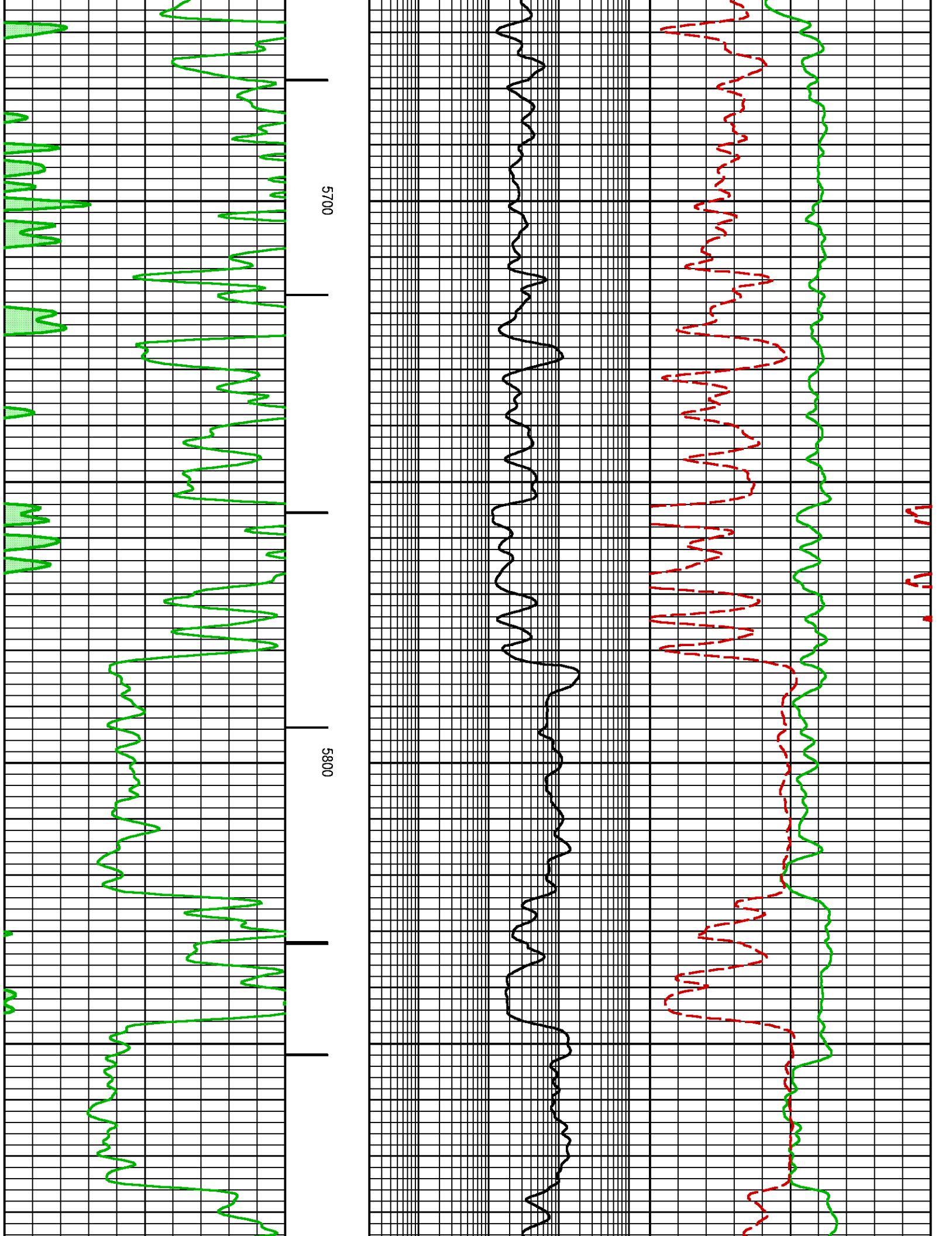


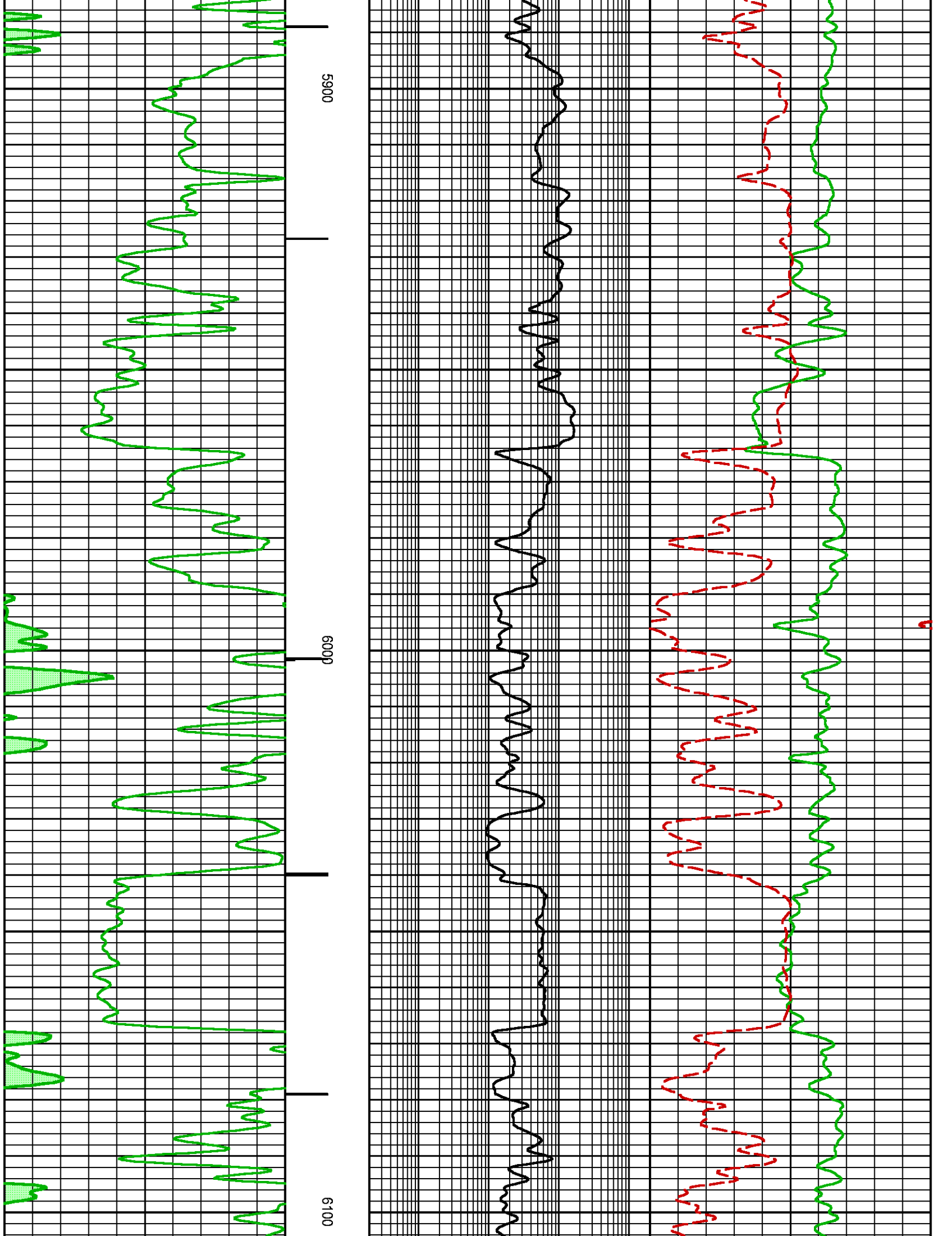


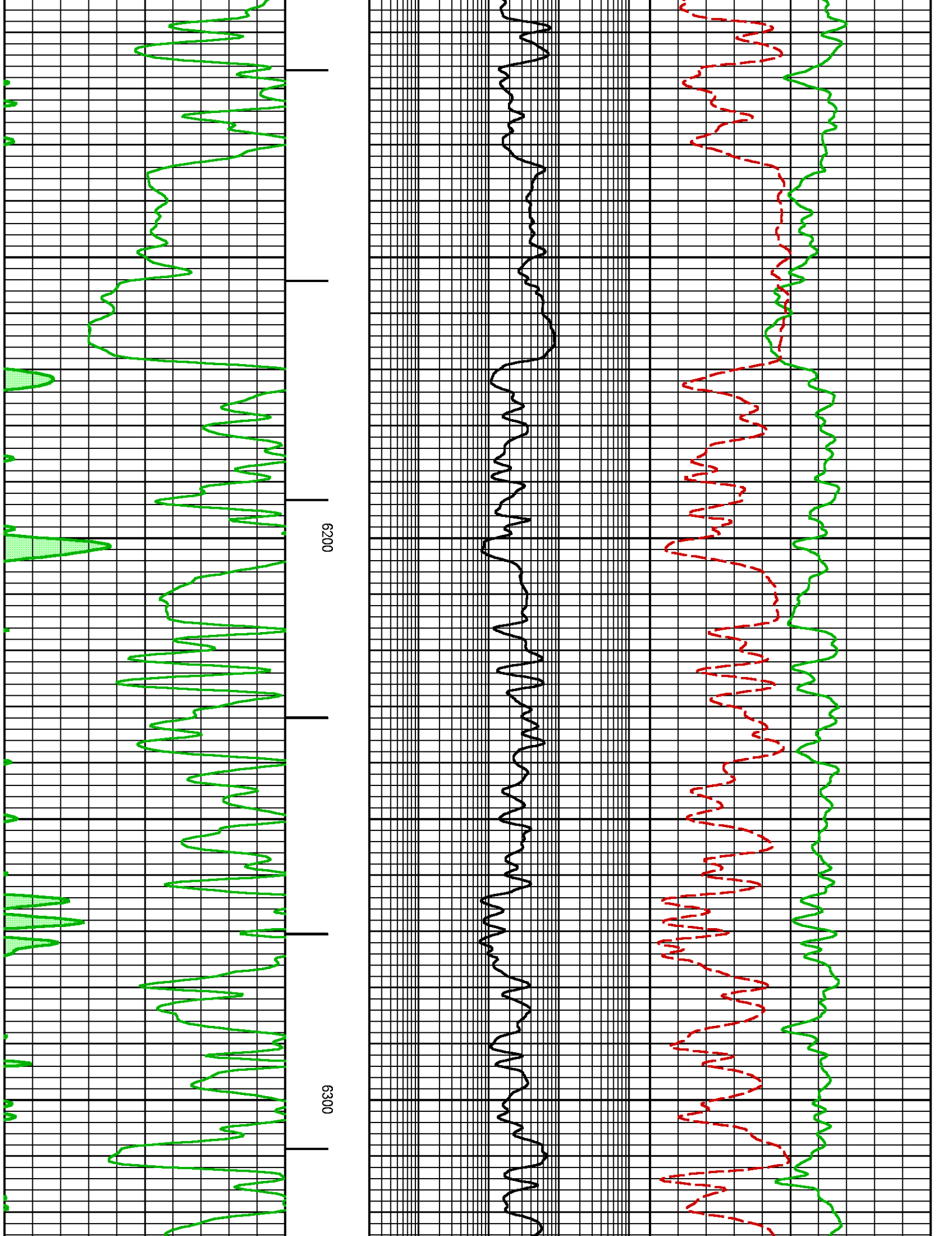


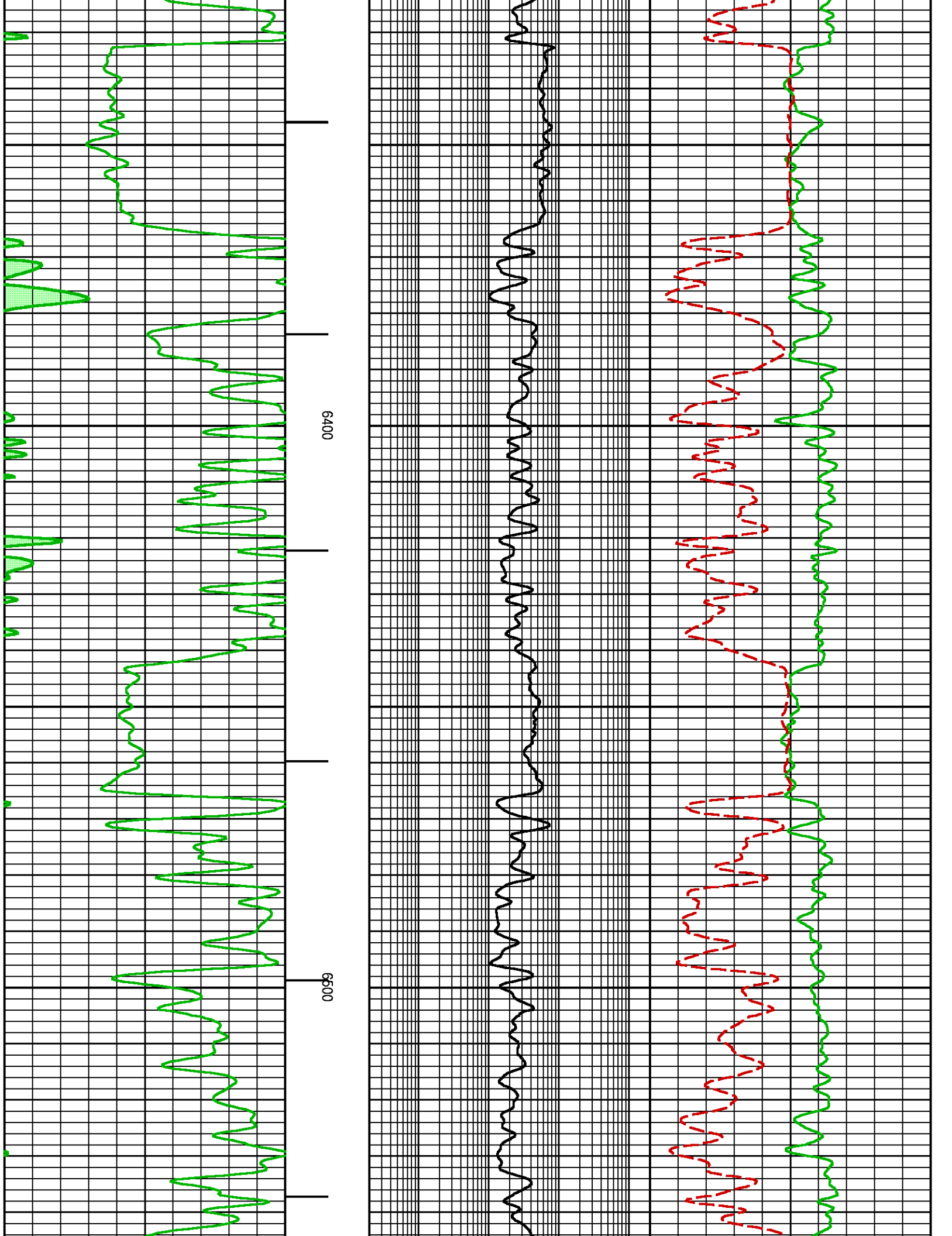


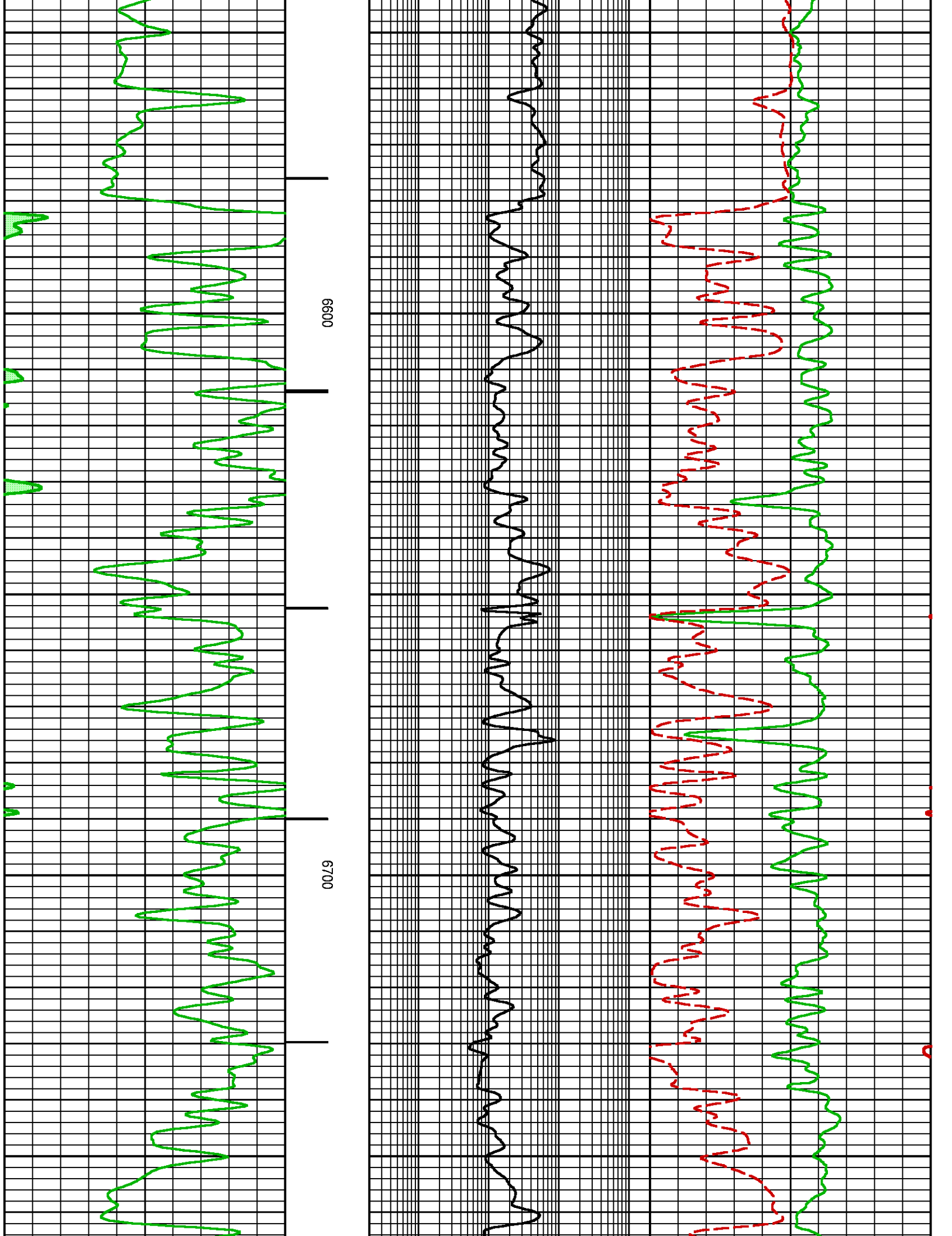


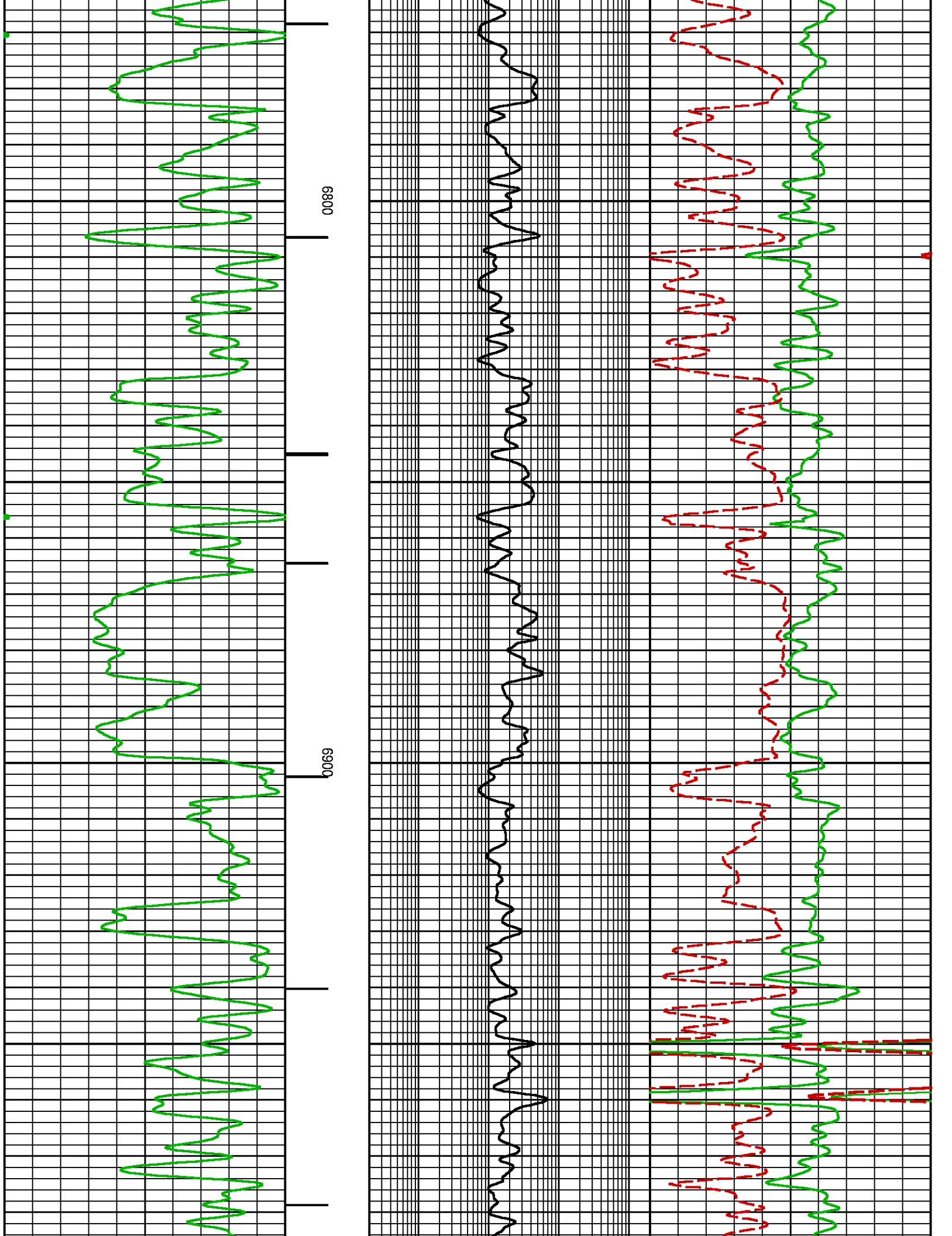


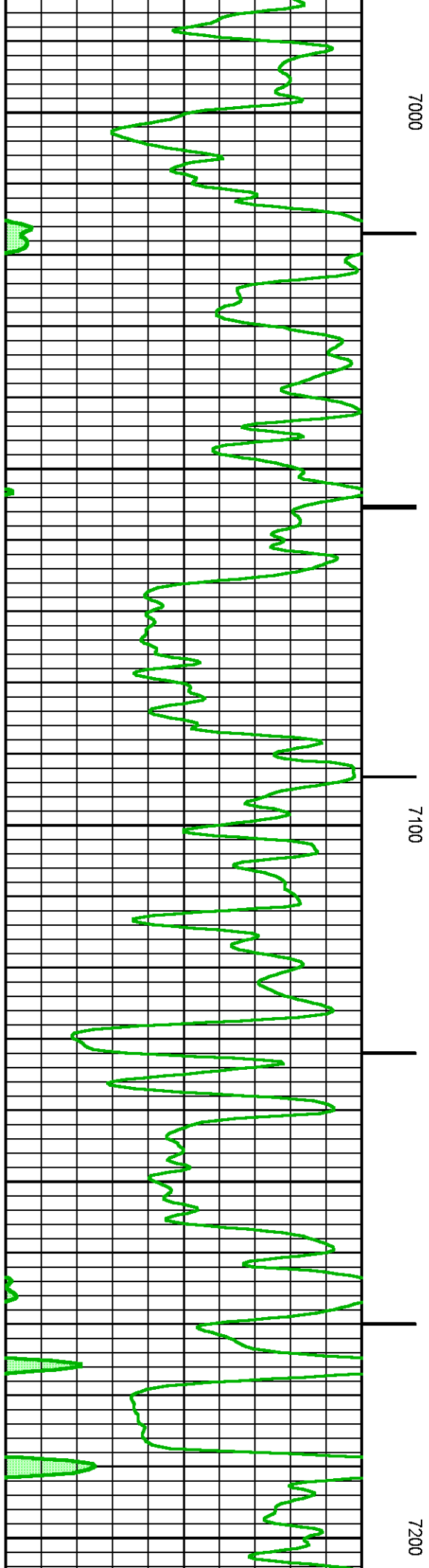
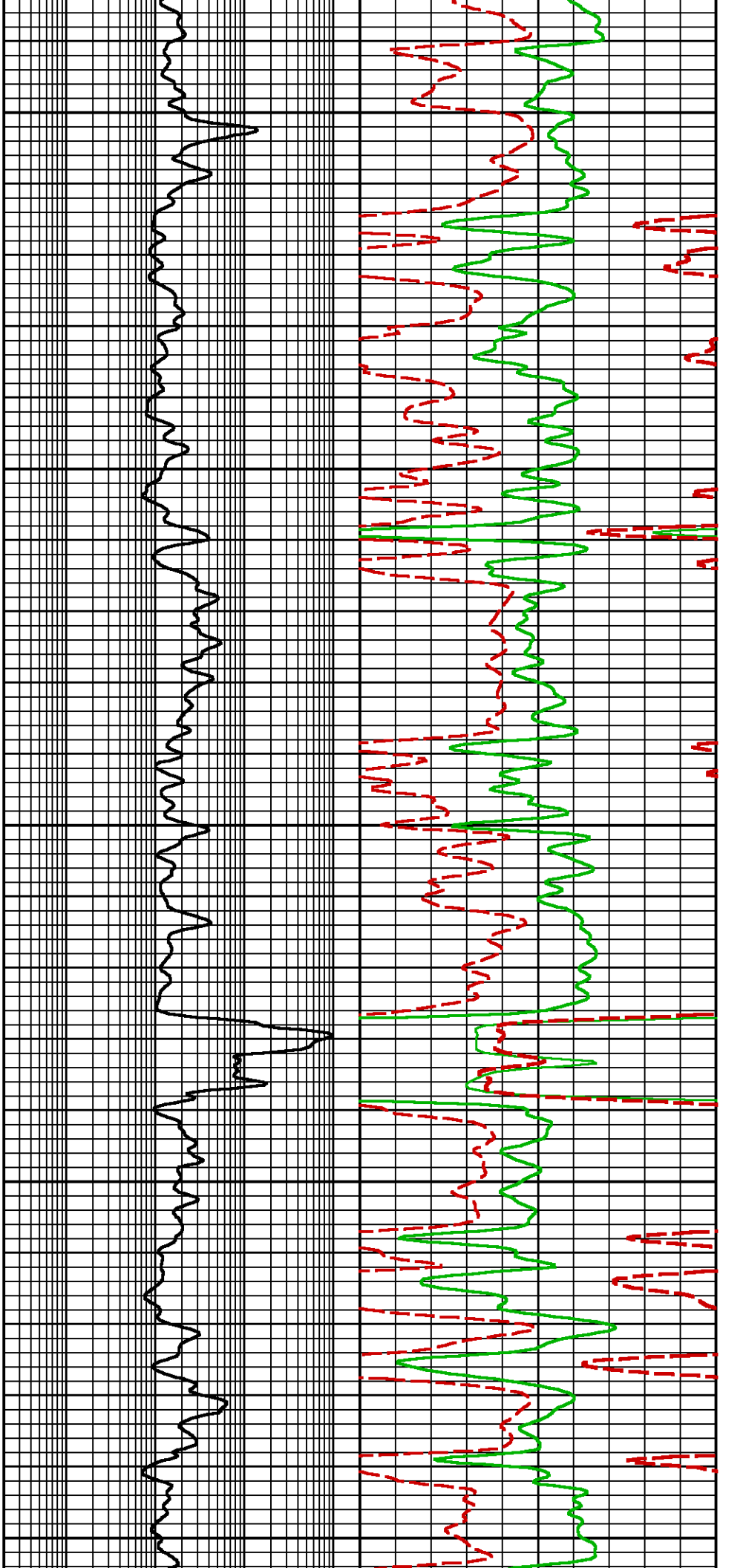


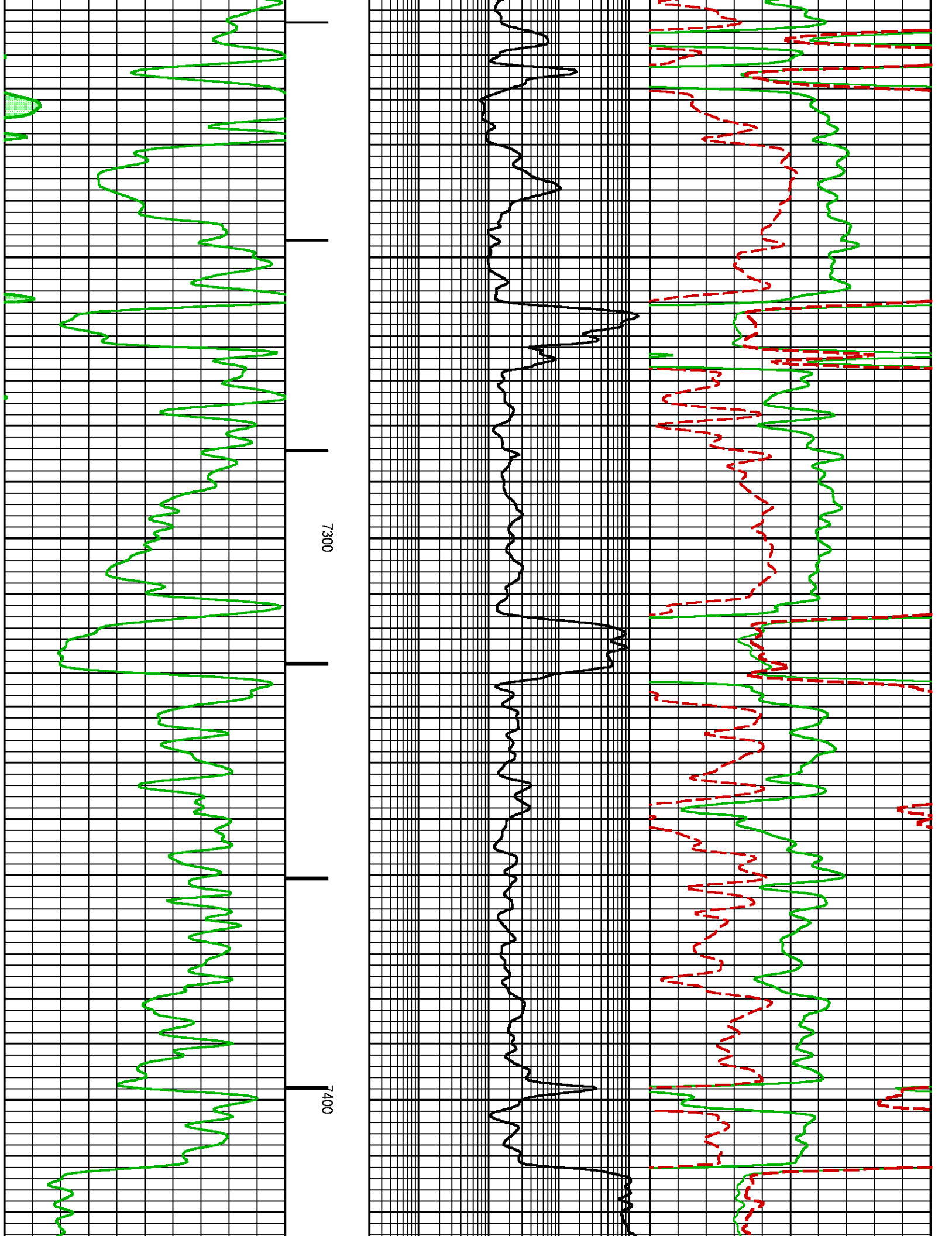


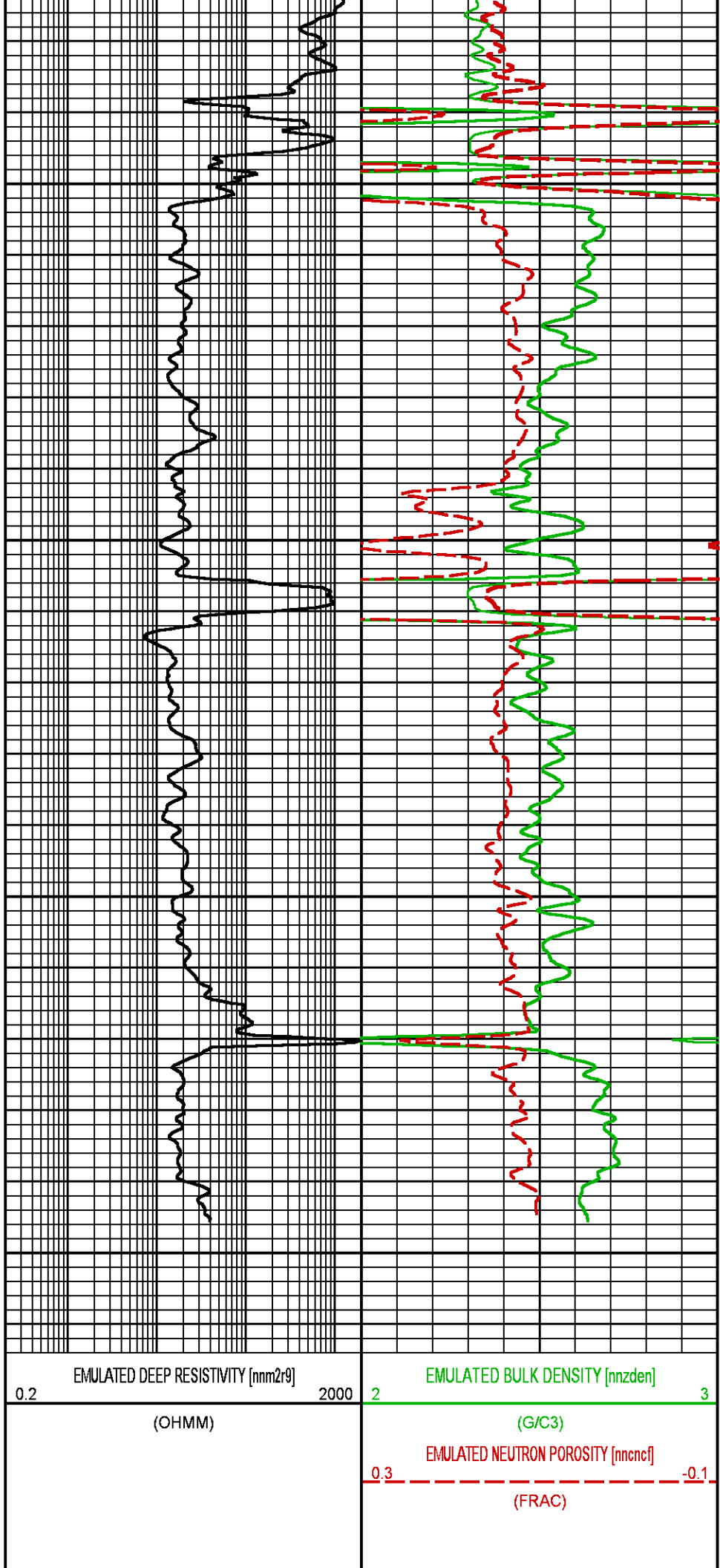
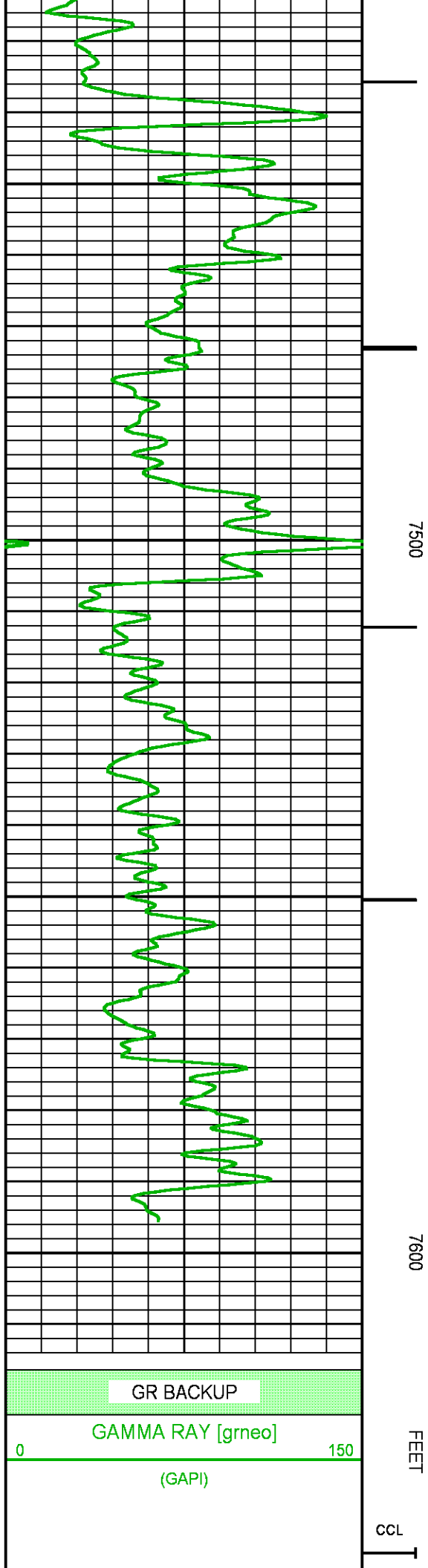












**BAKER
HUGHES**
a GE company



COMPANY LARAMIE ENERGY II LLC
WELL NICHOLS 0994-24-03E
FIELD VEGA
COUNTY MESA **STATE** COLORADO

FILE NO:
132626
API NO:
05077104190000

LOCATION:

SEE REMARKS SECTION
BHL 589' FNL 1521' FEL

SEC 24 **TWP** 9S **RGE** 94W

ELEVATIONS:

KB 7161 FT
DF
GL 7137 FT

NICHOLS 24-6A

DATE 08-Mar-2018

Pulsed Neutron
Formation Evaluation

