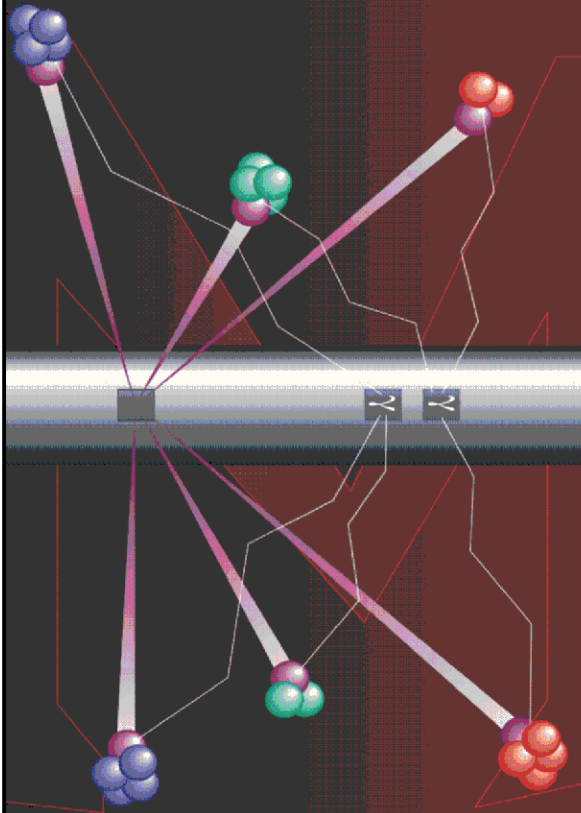


Pulsed Neutron Formation Evaluation



NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY

WELL GUNDERSON 20-05W

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS SECTION

SEC 20 TWP 9S RGE 93W

ELEVATIONS:

KB 7176.0 FT DF 7175.0 FT GL 7146.0 FT

DATE 25-AUG-2017 ECC 28154-01

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>29-AUG-2017</u>
FIELD DATA	LOCATION: <u>WOODWARD</u>	ENGINEER: <u>S.YASSA/US125426</u>	DATE: <u>25-AUG-2017</u>

FROM	TO								
<u>2062 FT</u>	<u>7428 FT</u>								

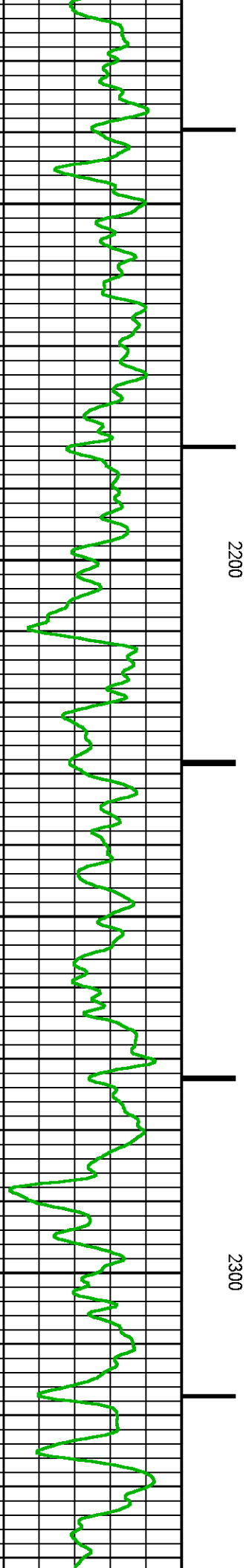
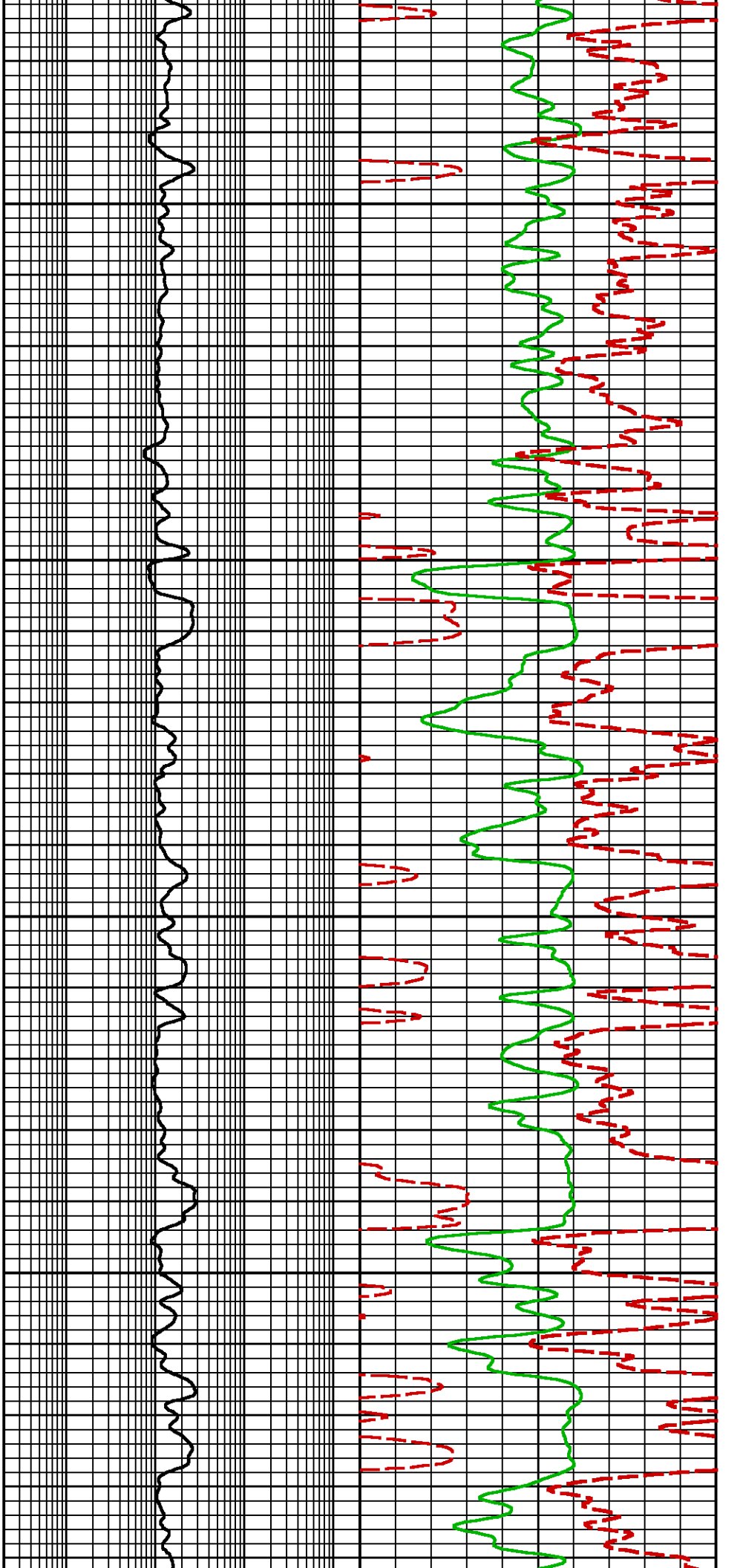
REMARKS

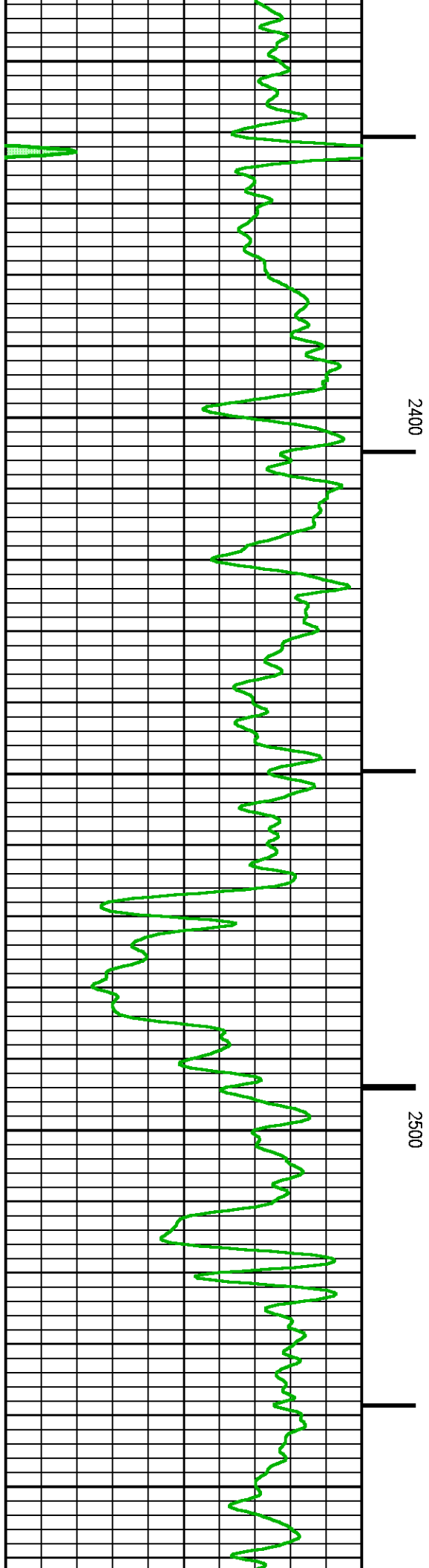
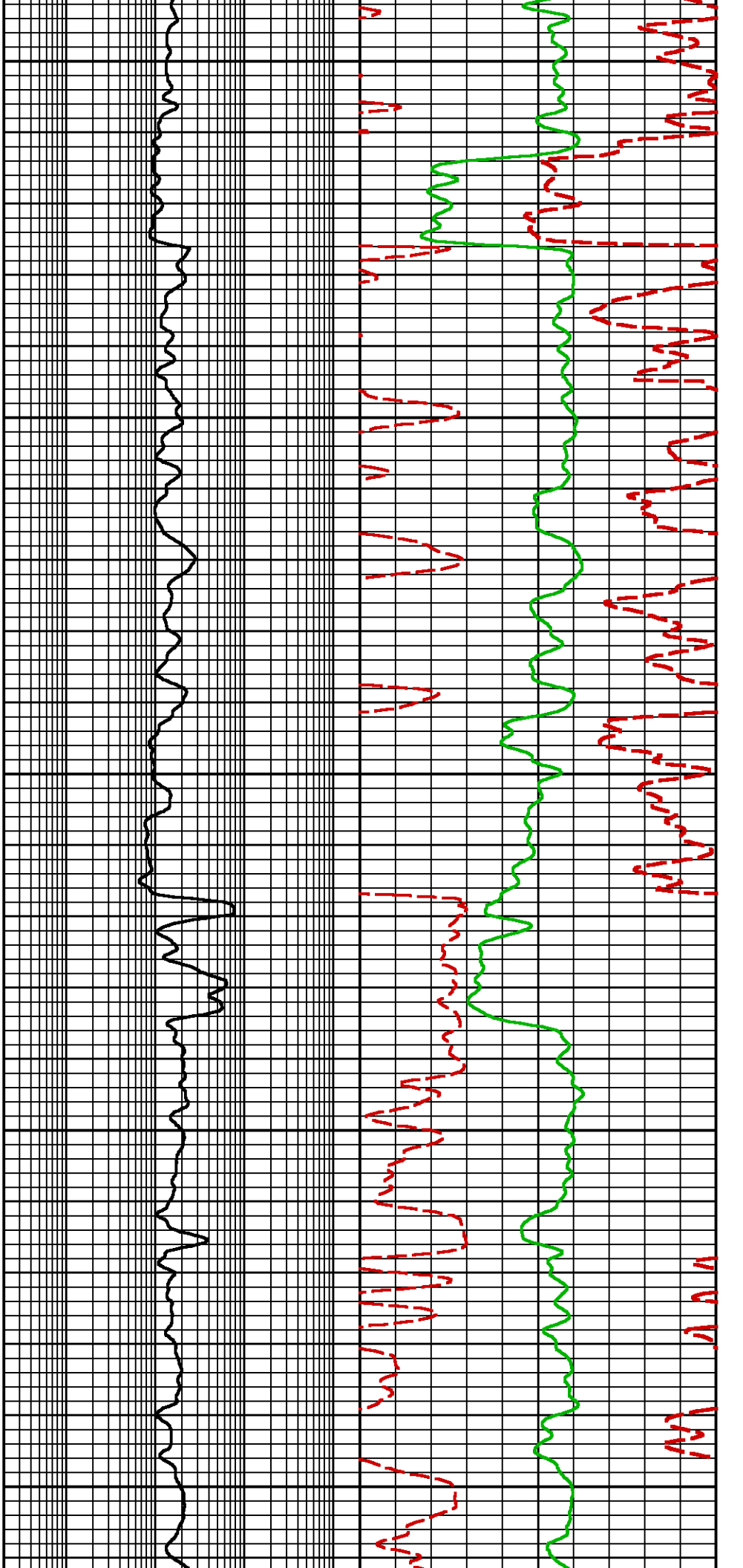
LOCATION:
SHL: LAT:39.266864N;LONG:107.795317W
BHL: LAT:39.266479N;LONG:107.797721W

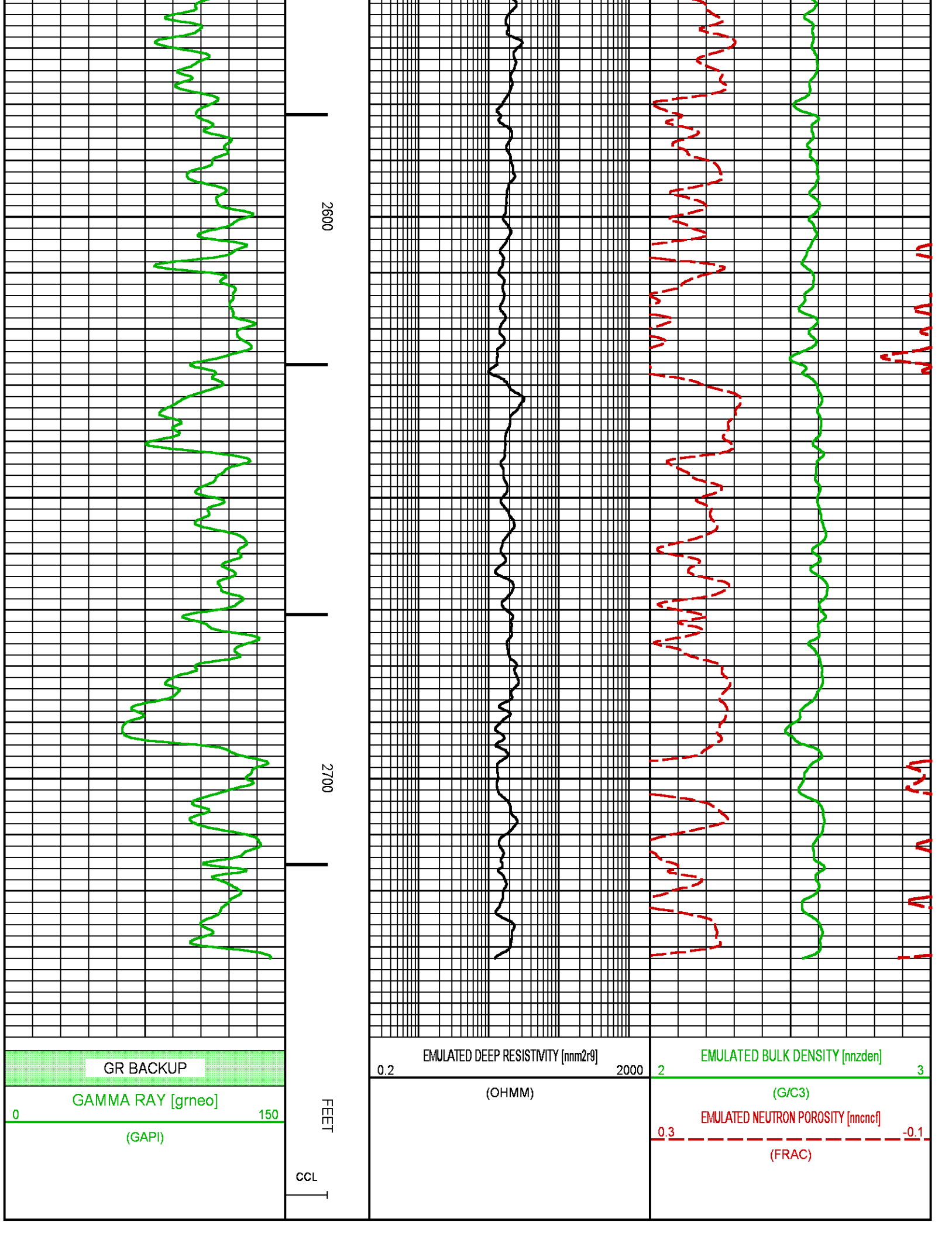
TRAINING WELL: GUNDERSON 20-04W

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

BONG LOG IS DEPTH REFERENCE LOG







NEO RESULTS FOR GUNDERSON 20-05W (MAIN)

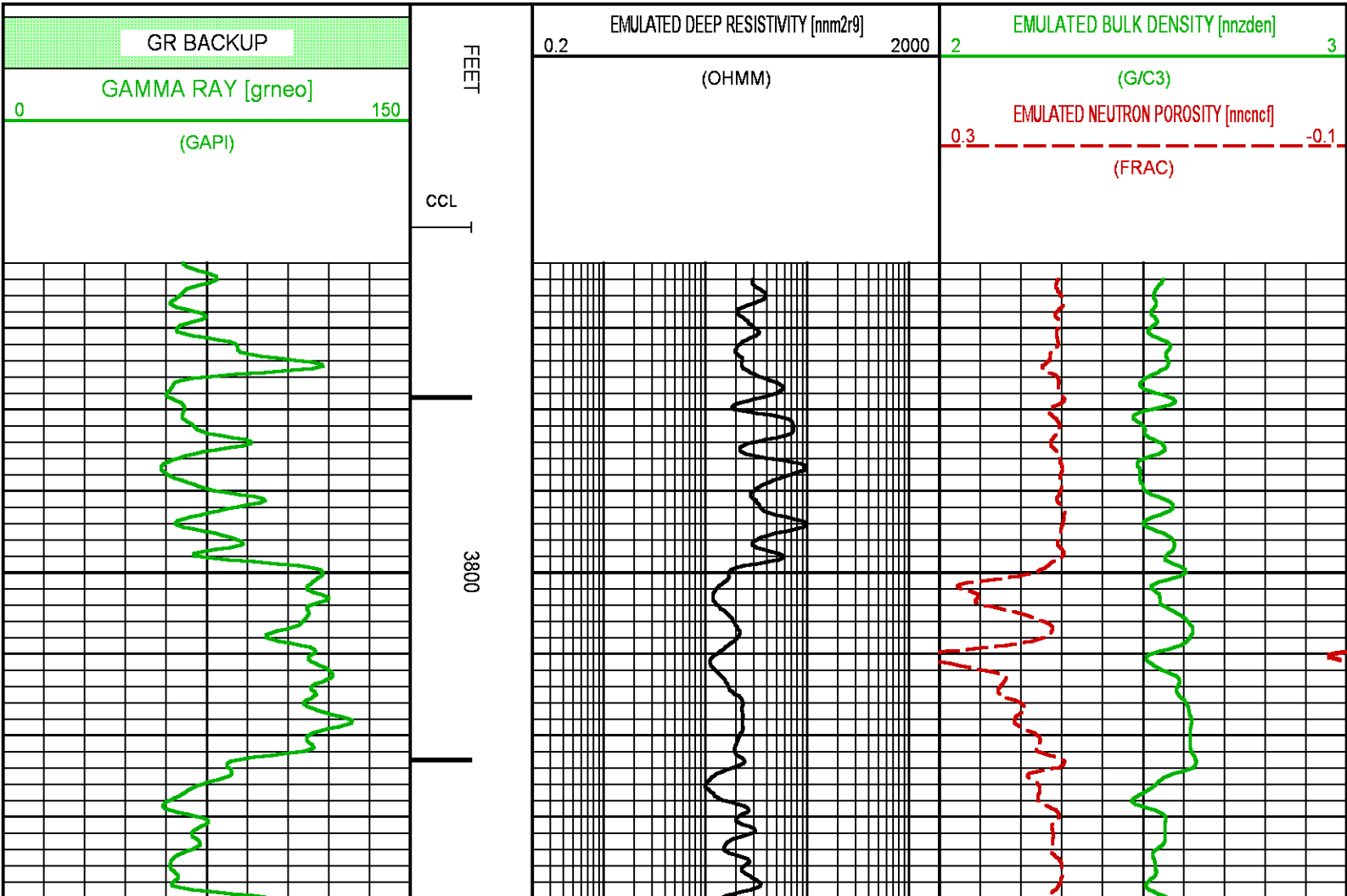
ECLIPS ECPLLOT from ECLIPS 7.0 WFM 5.0.7343.1 Sun 02/07/2016 16:48:51.73

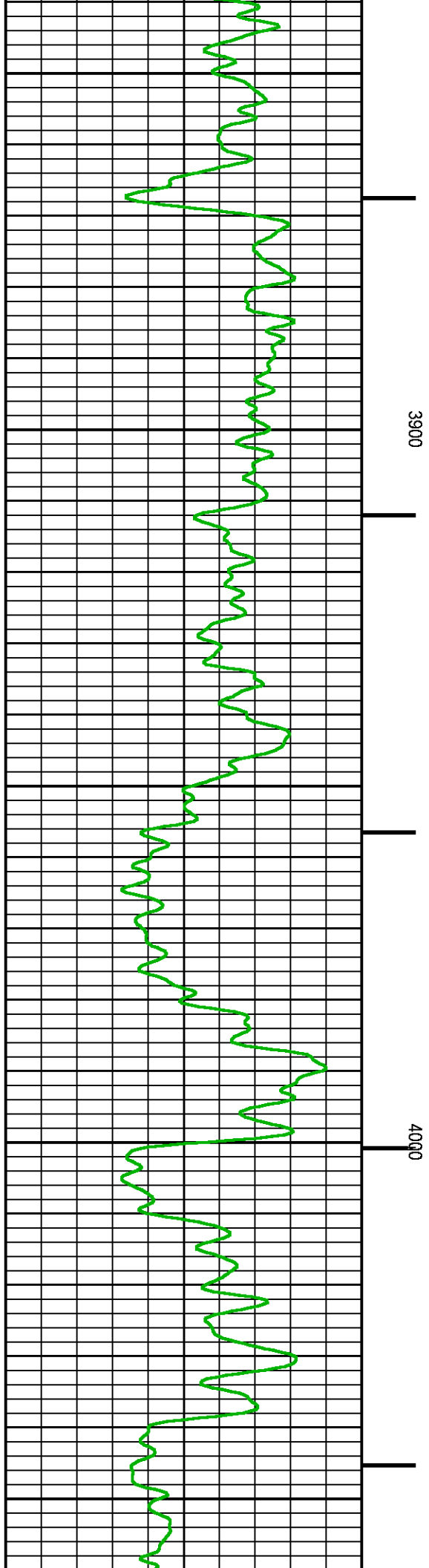
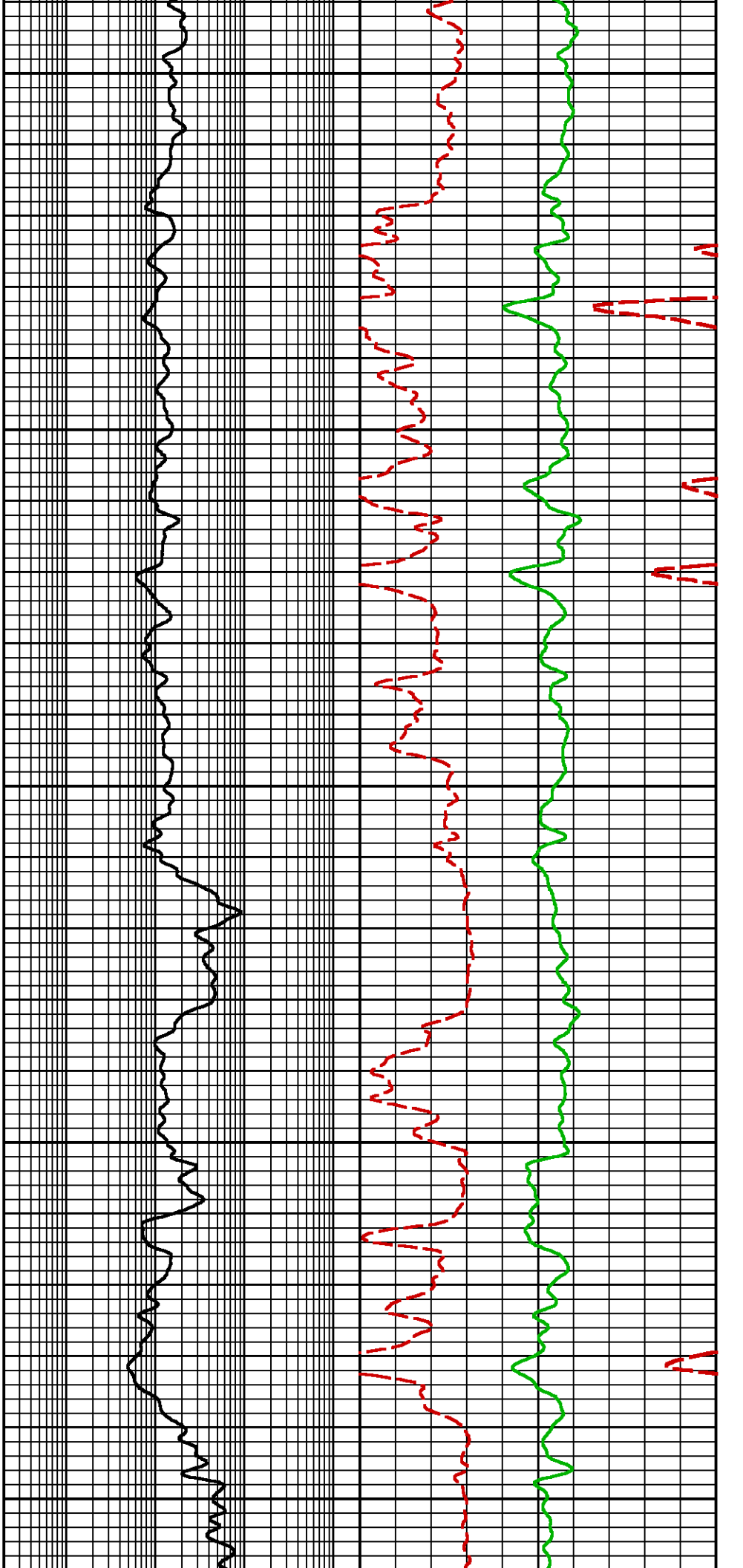
Plotted: Tue Aug 29 09:05:40 2017

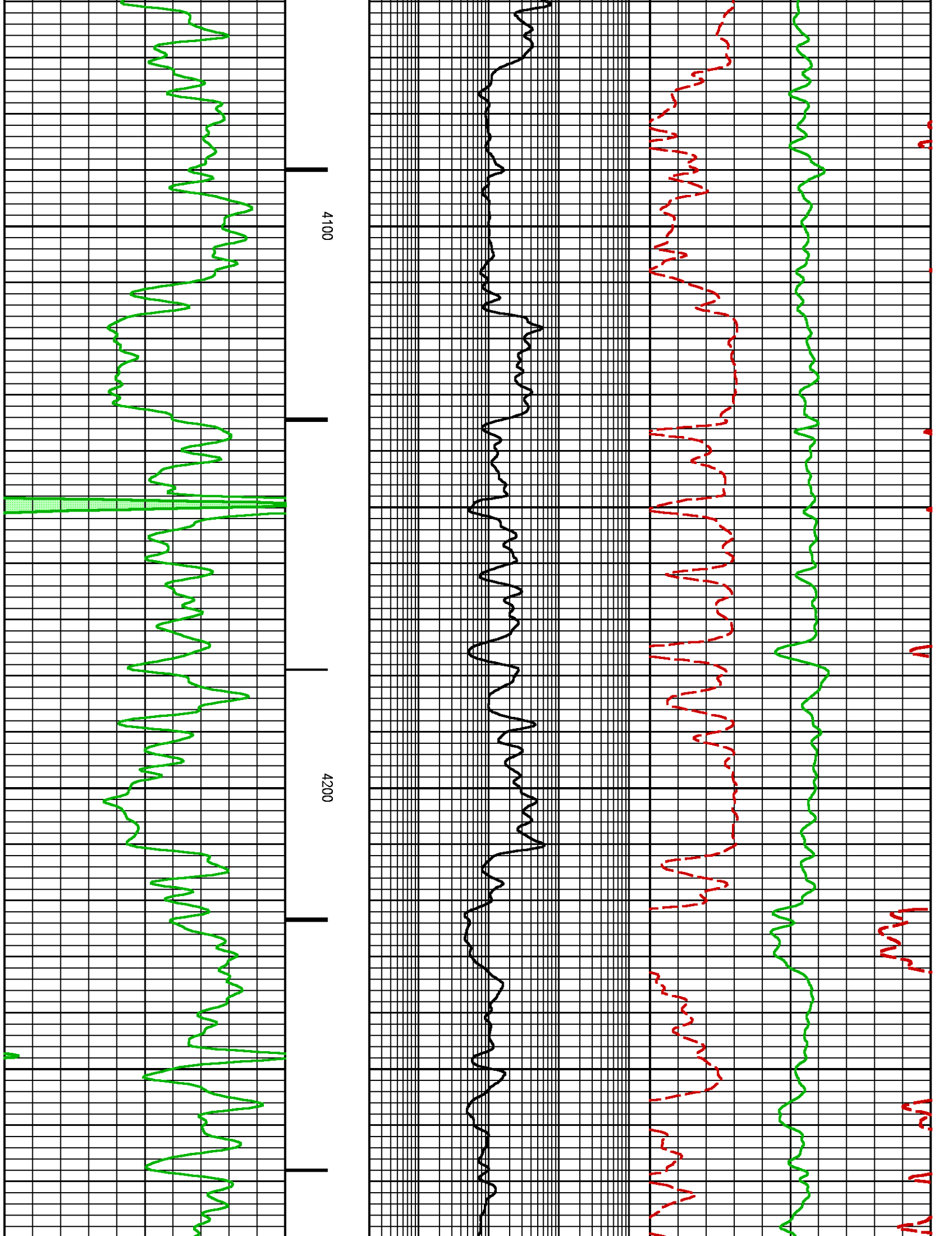
CURVE MEASURE POINT OFFSET

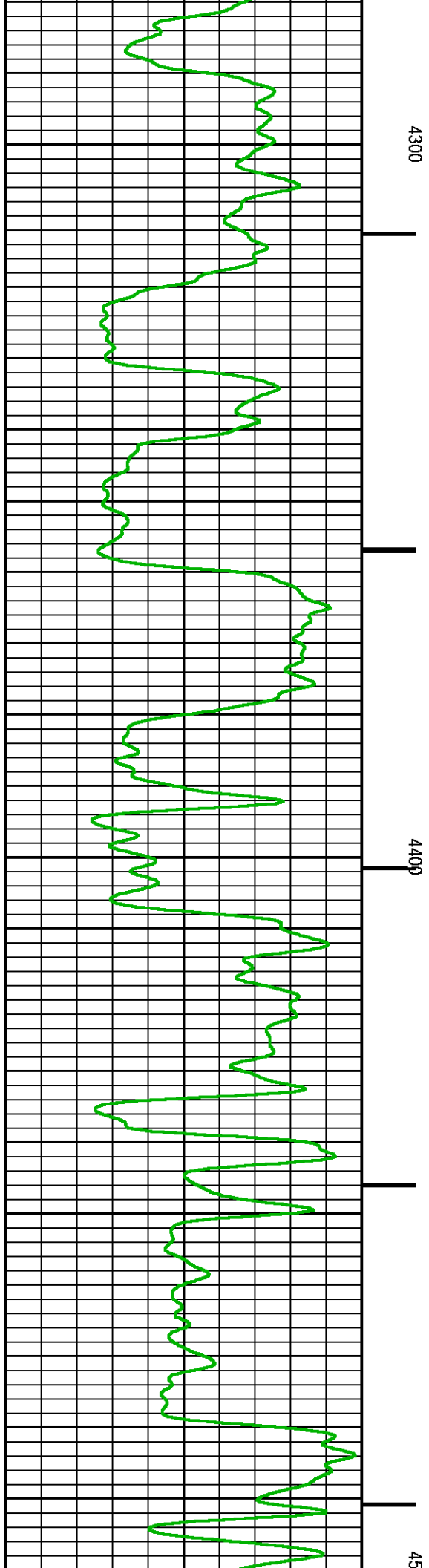
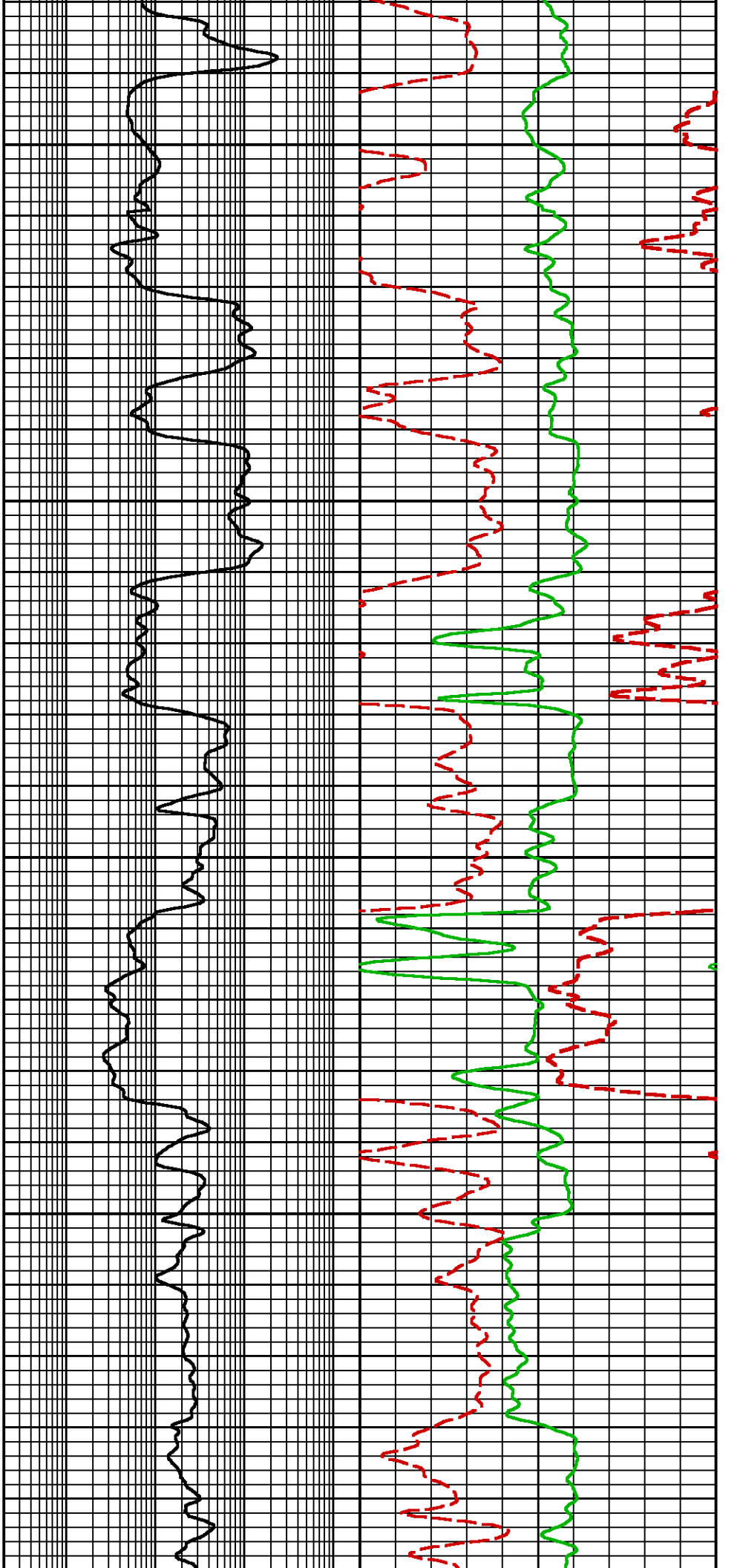
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNC	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

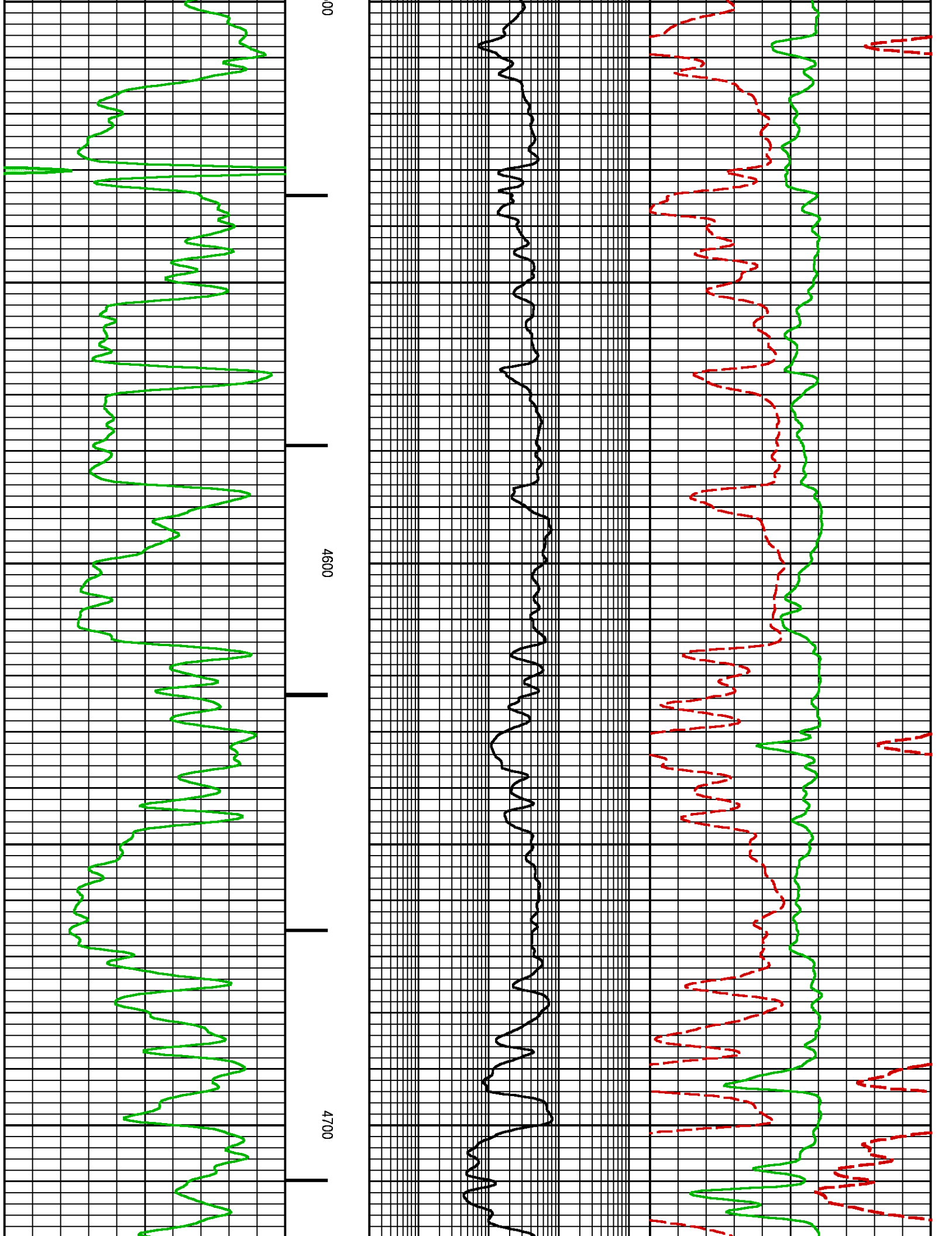
Project : NA
 User : kotoale
 Presentation : BHI1F65XZ1:D:\Ape_Projects\GUNDERSON 20 05W NEO\NEO_PRESENTATION_LARAMIE_MAIN.pdf [5"/100" Scale]
 Plot Interval : 3762 - 7428.25 Feet
 Data File 1 : F1 : BHI1F65XZ1:D:\Ape_Projects\GUNDERSON 20 05W_NEO\Merged_Set_Final.xtf
 Created On : N/A
 Company : LARAMIE ENERGY
 Well : GUNDERSON 20-05W
 Field : VEGA
 File Interval : 2062.25 - 7428.25 Feet
 OCT : NA

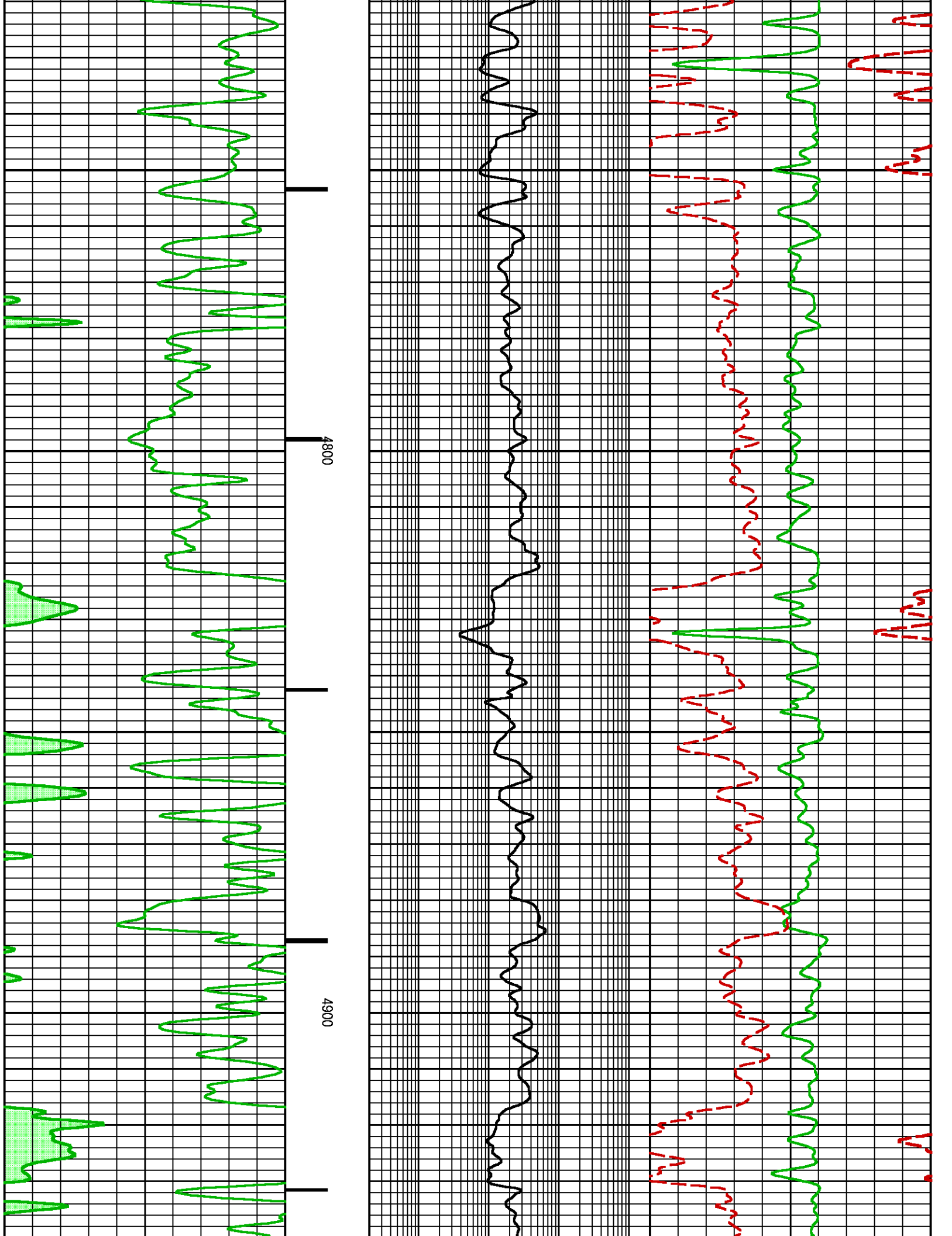


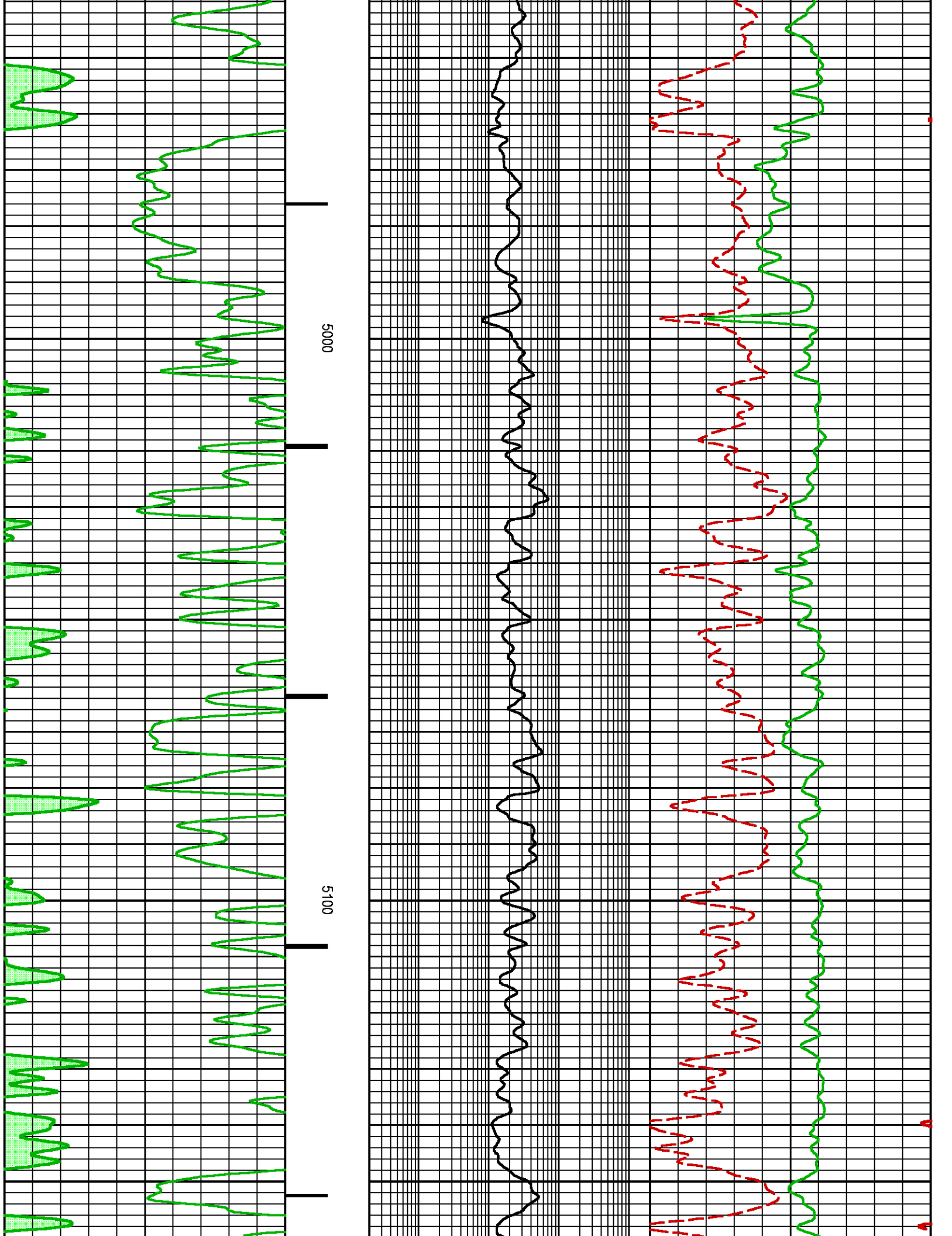


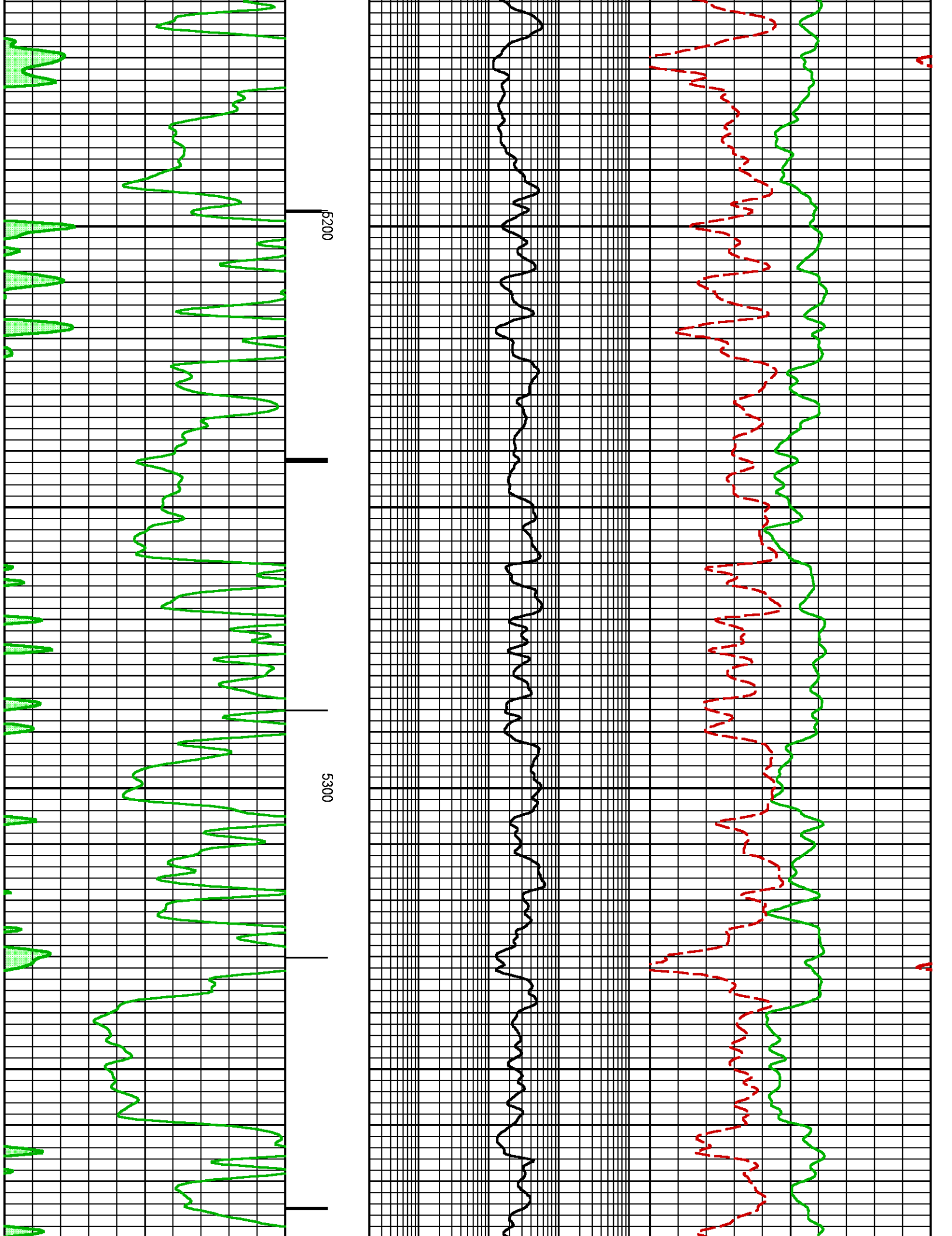


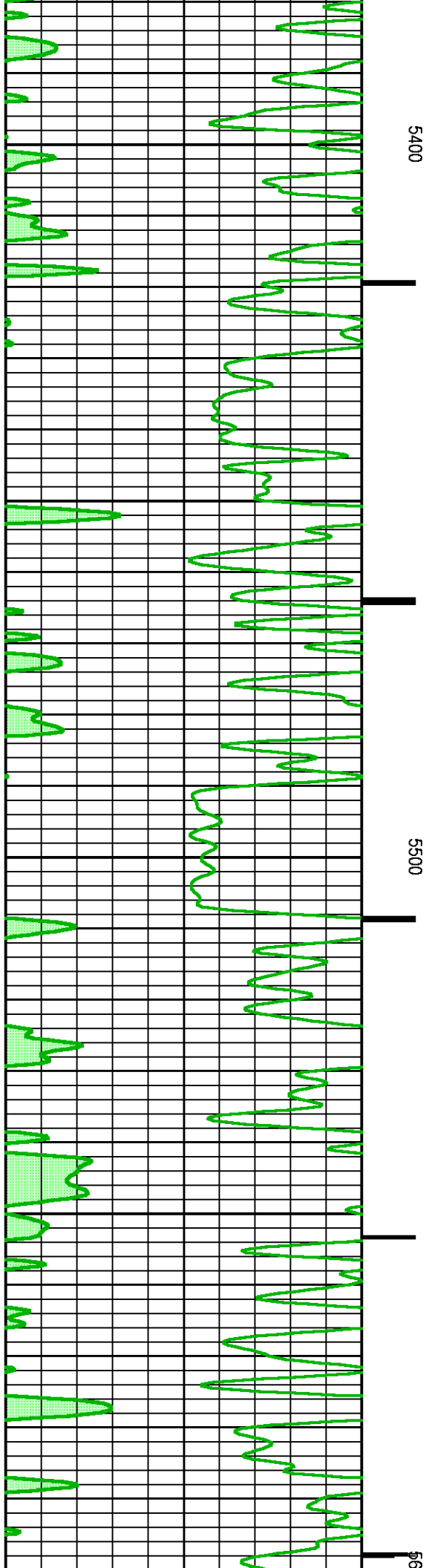
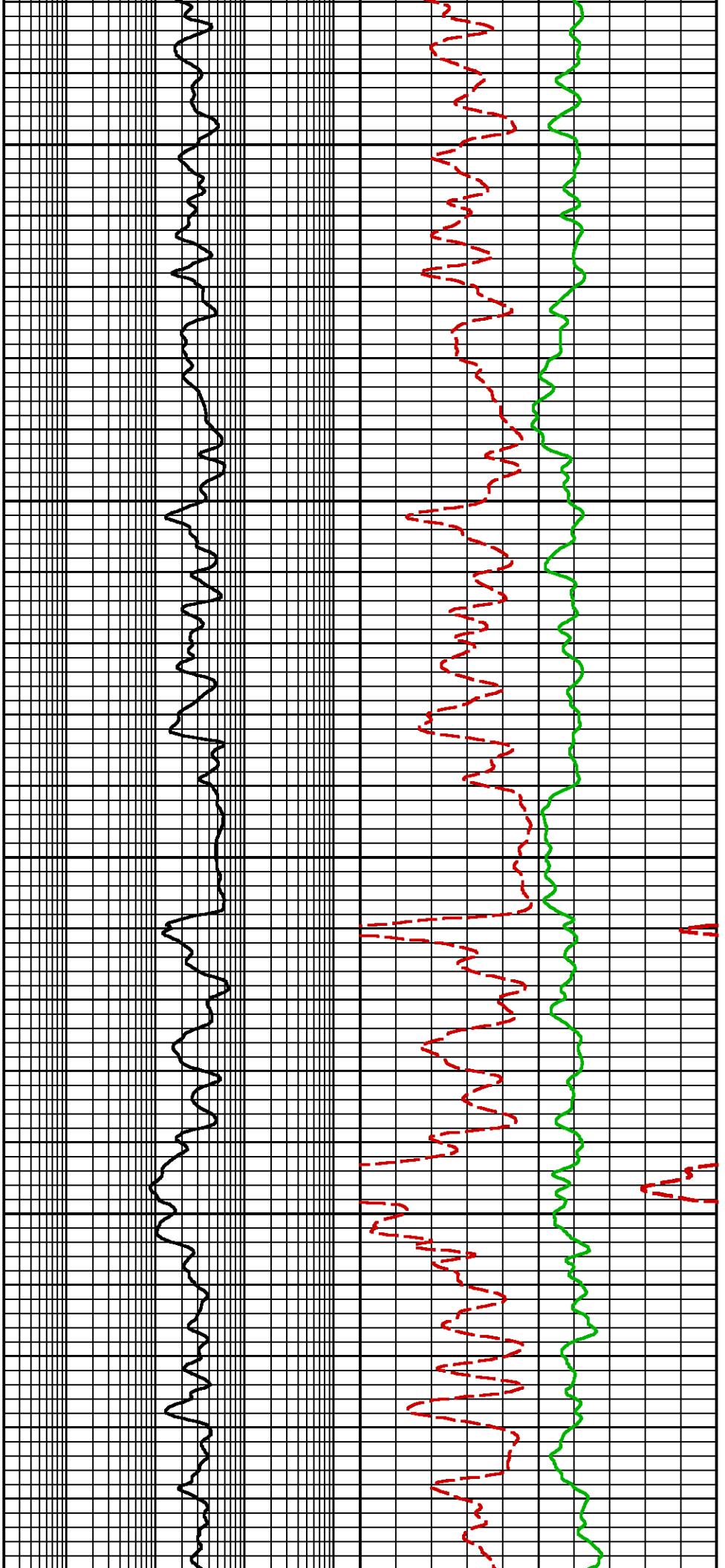


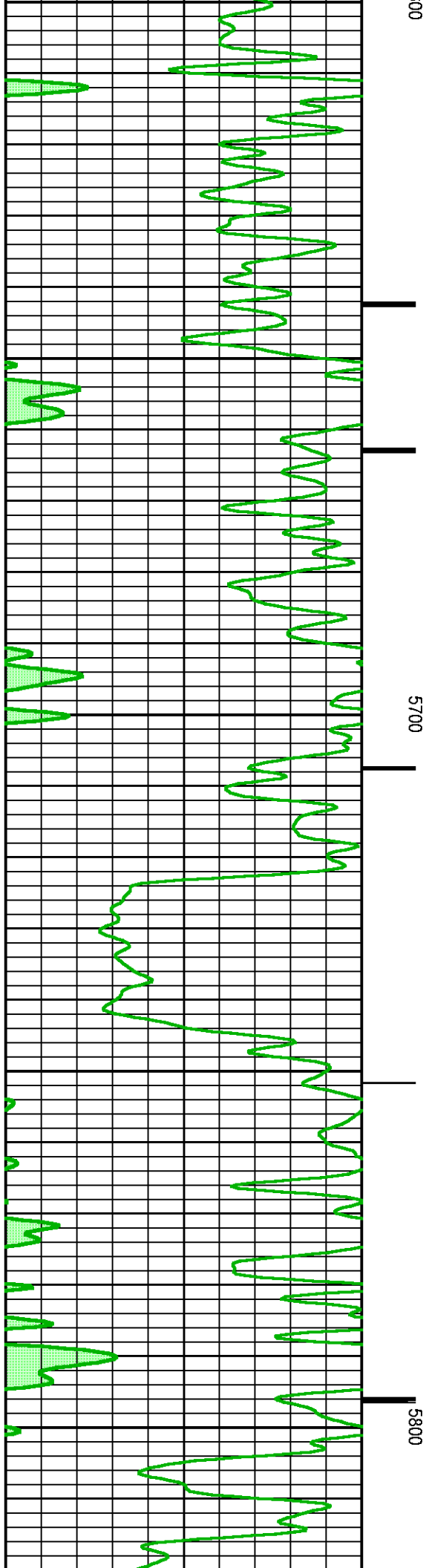
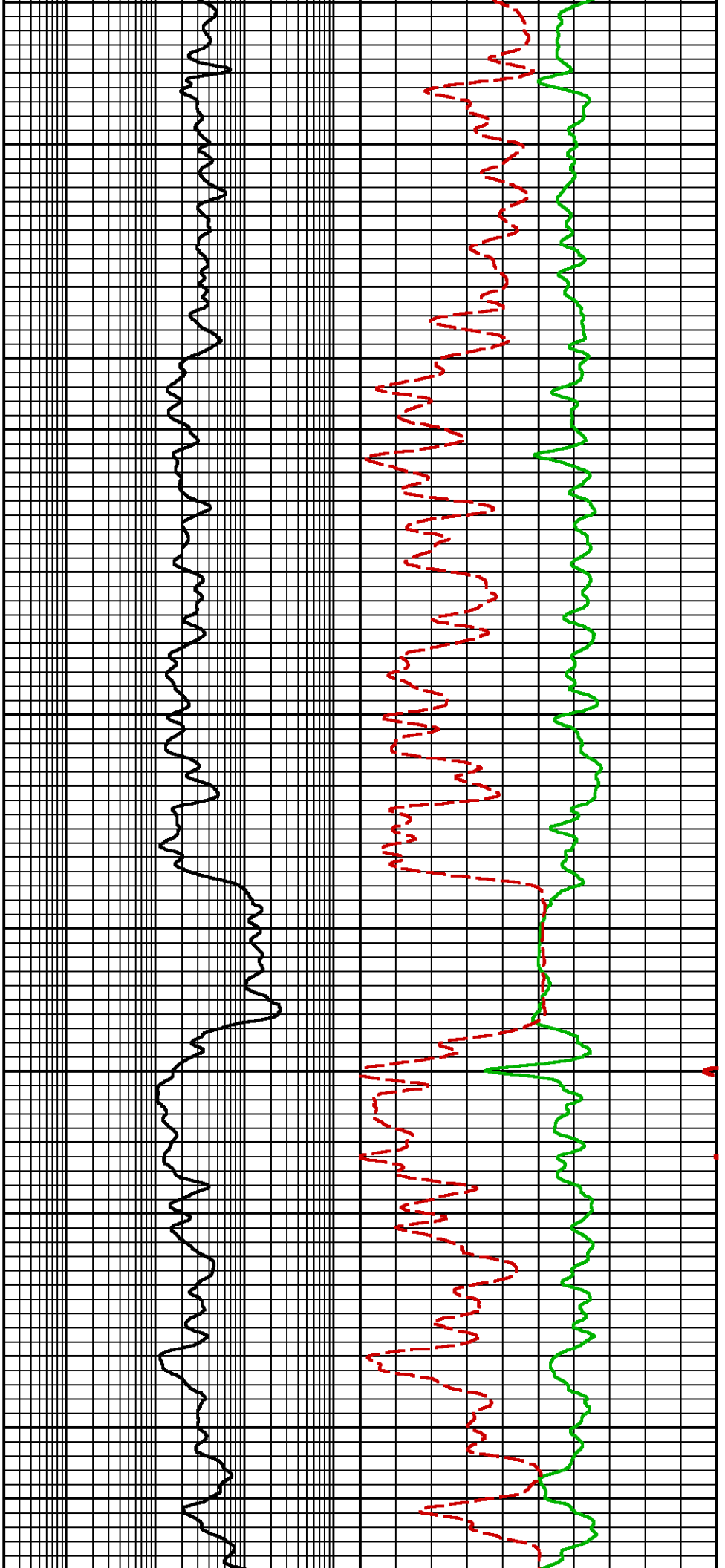


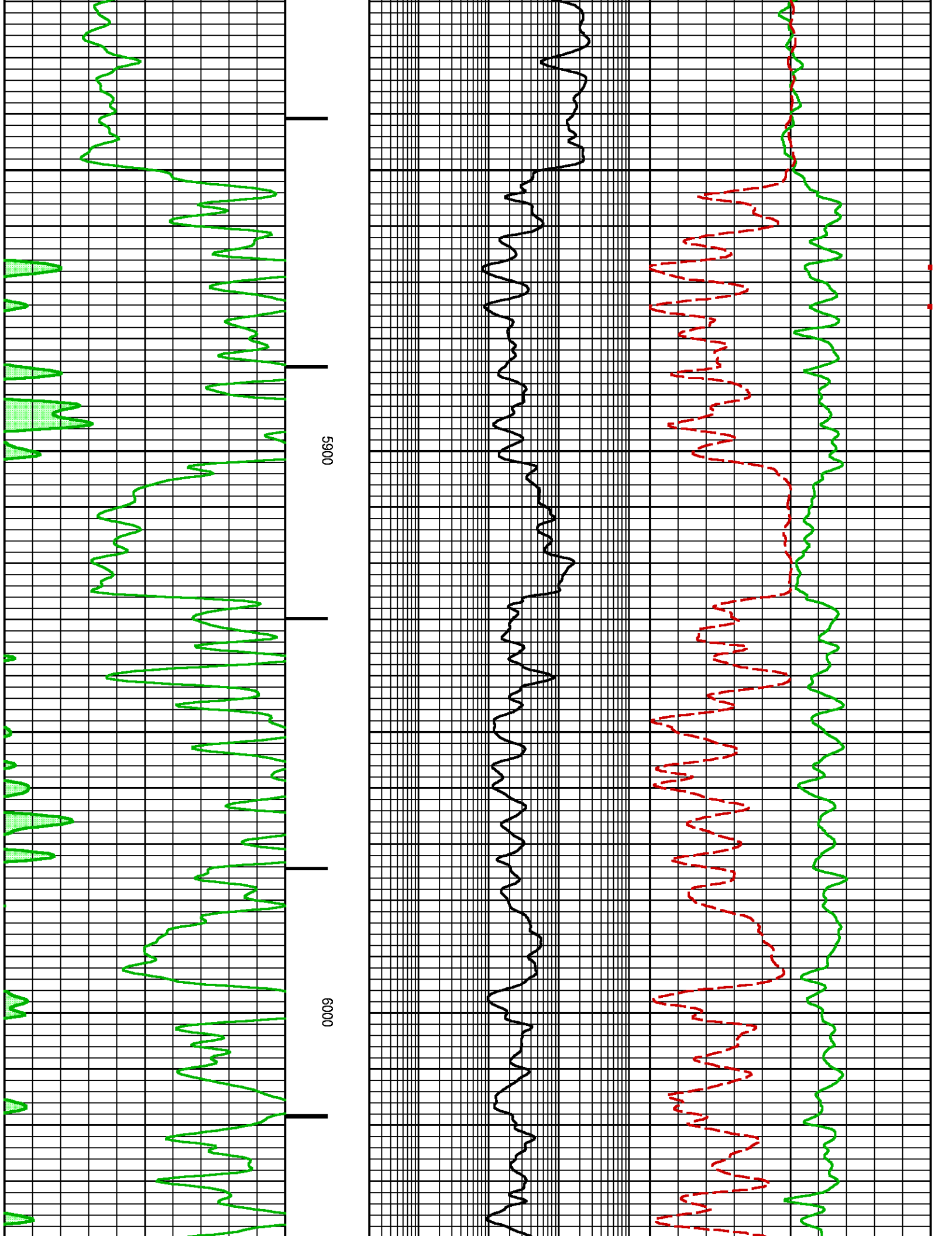


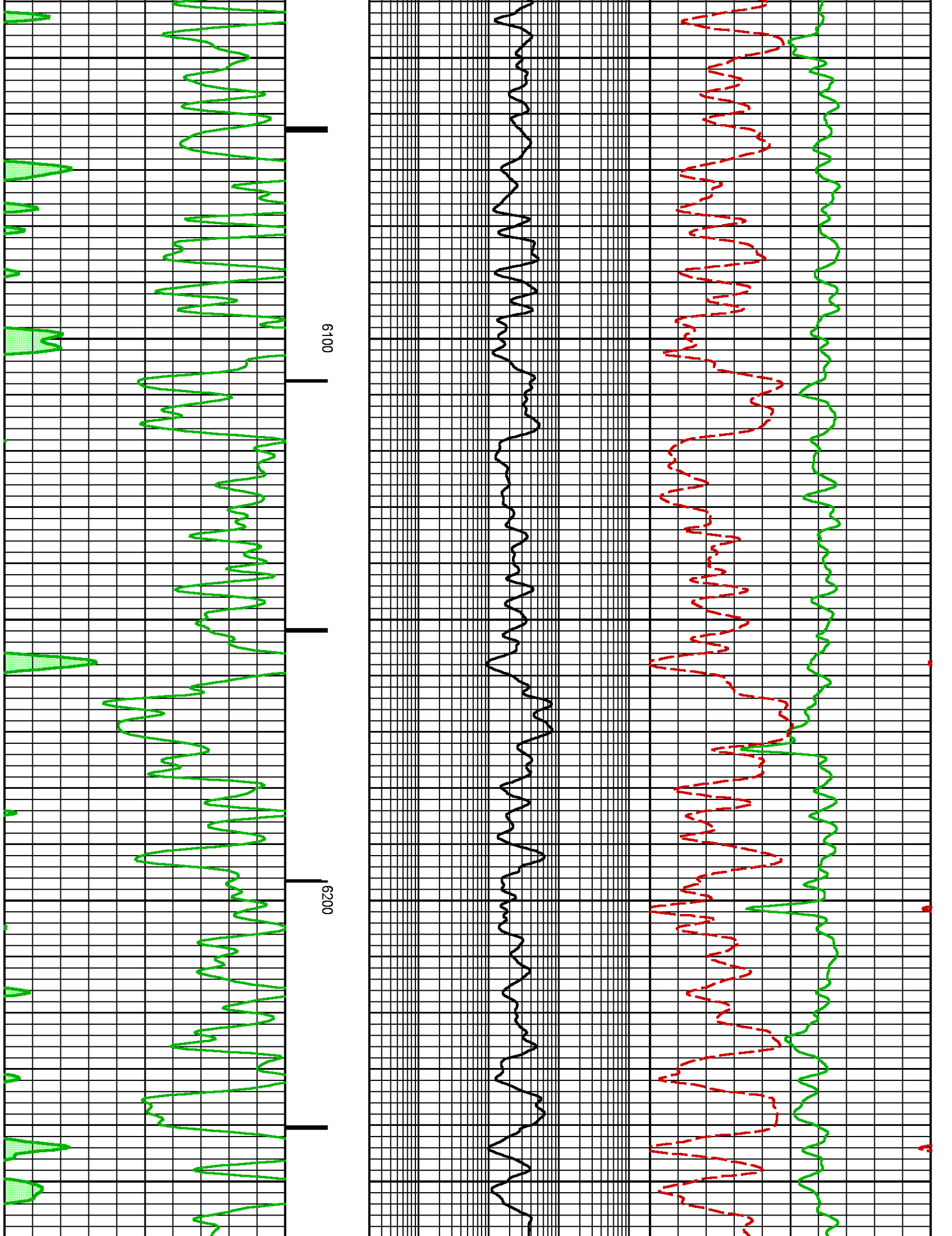


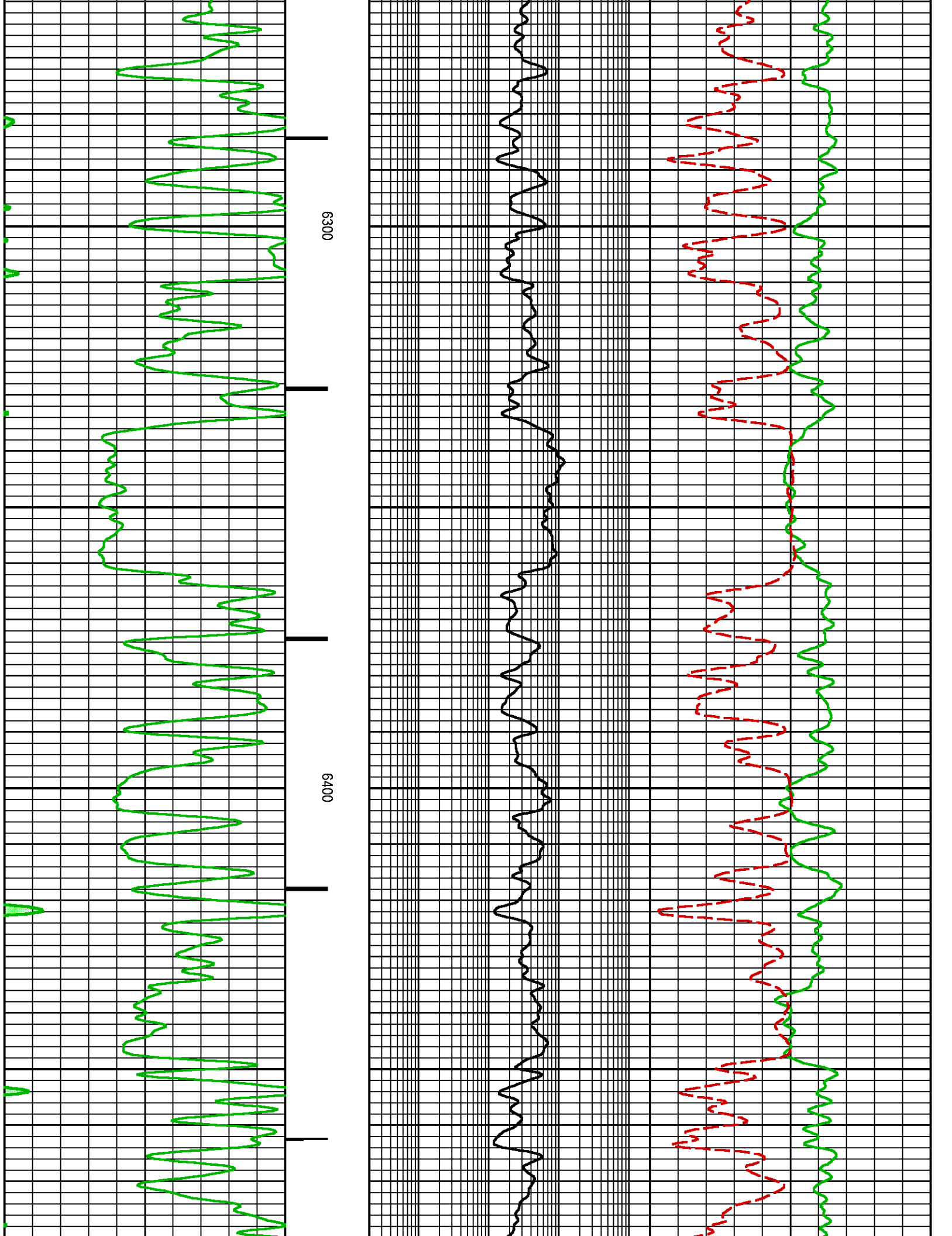


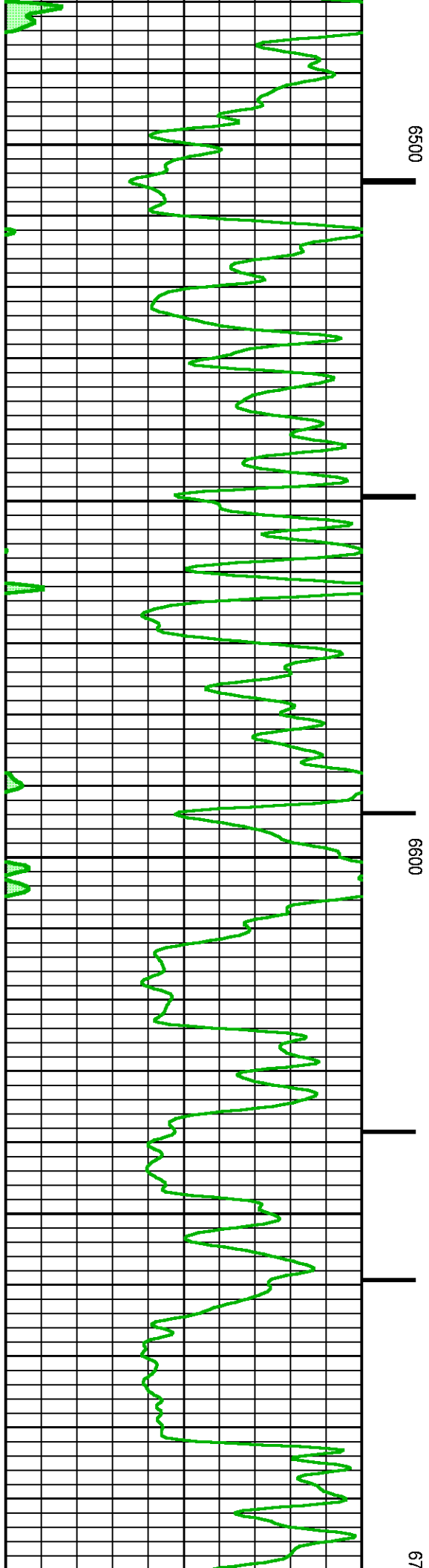
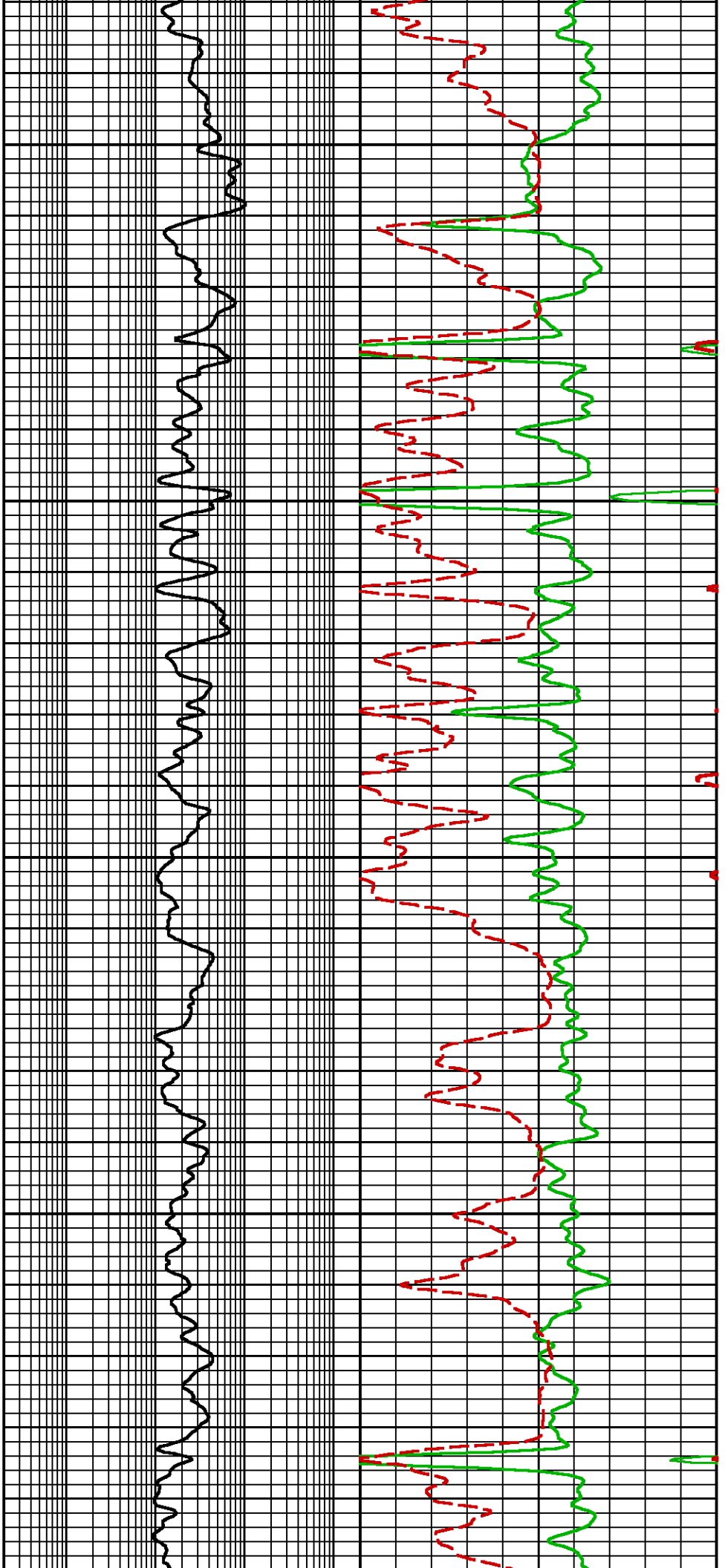


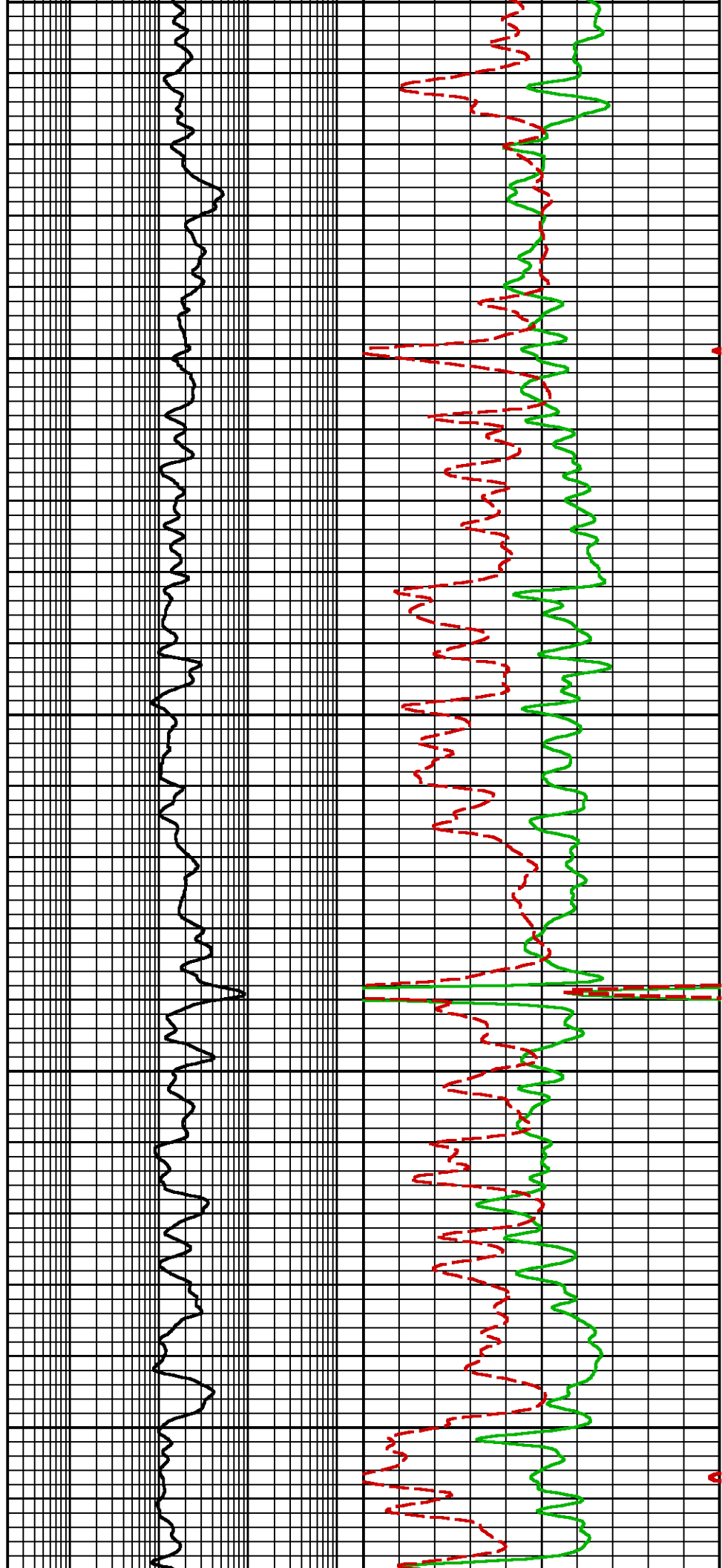
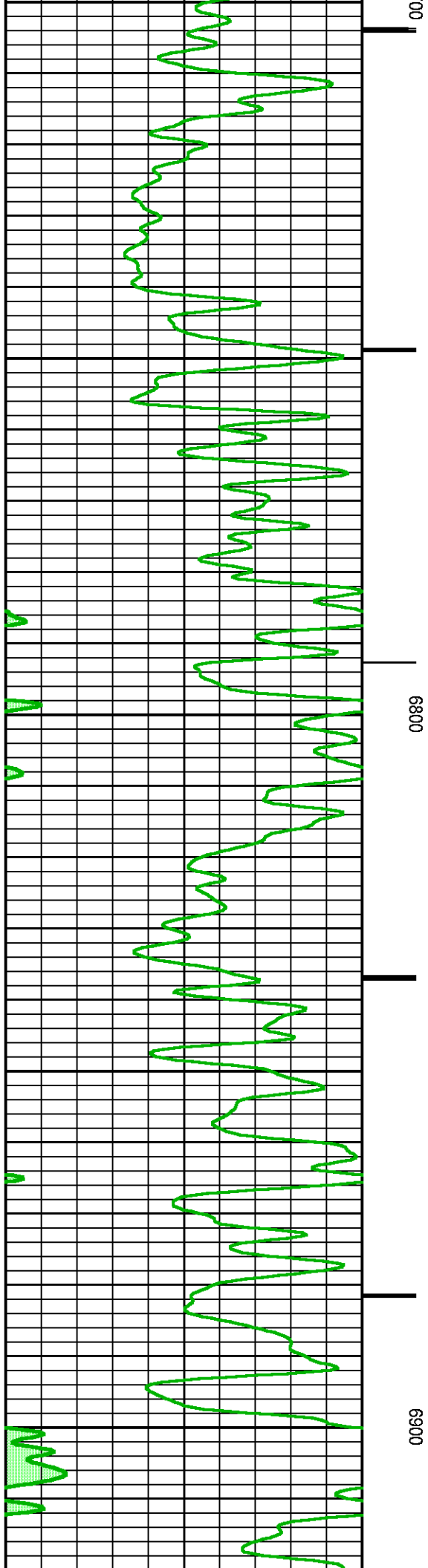


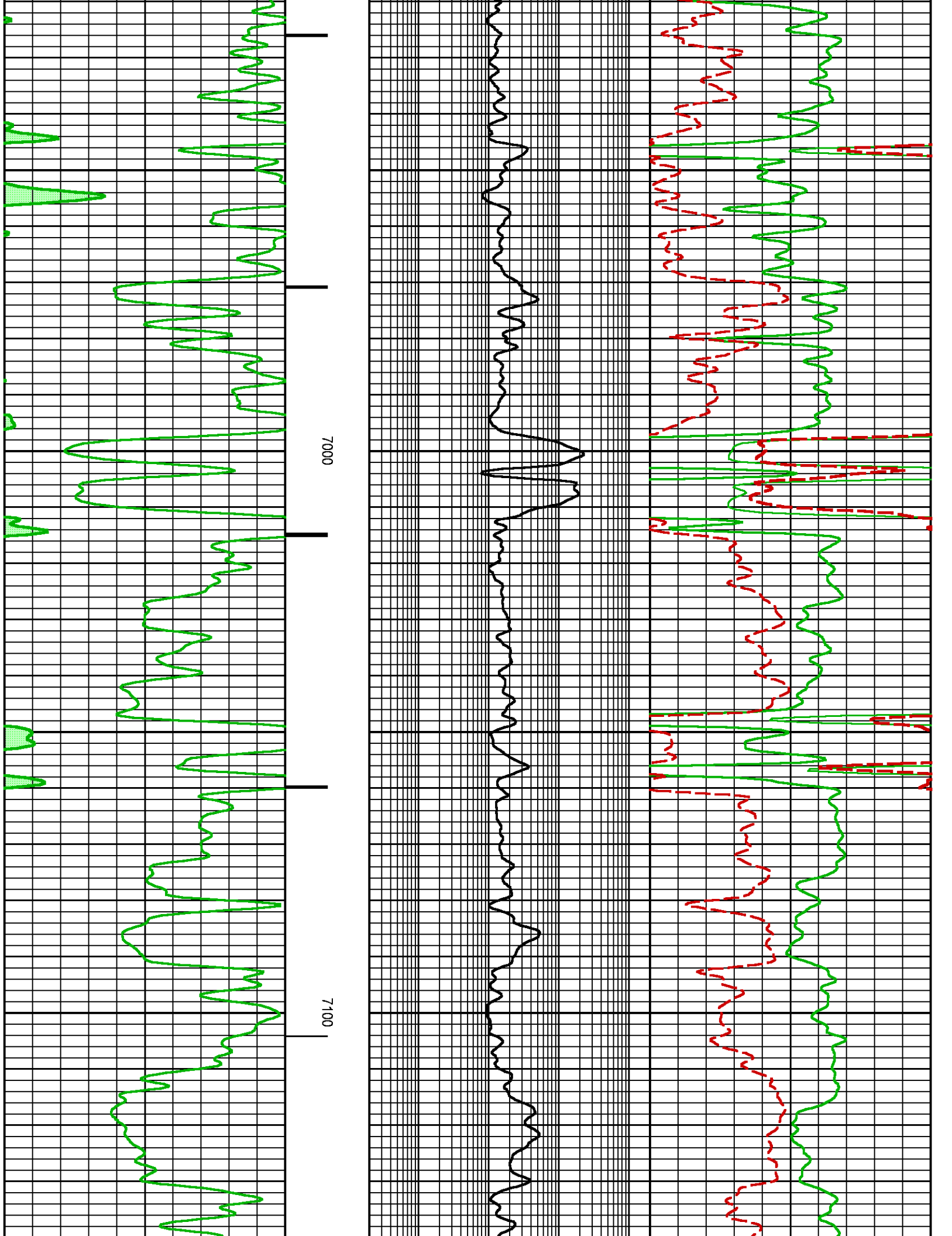


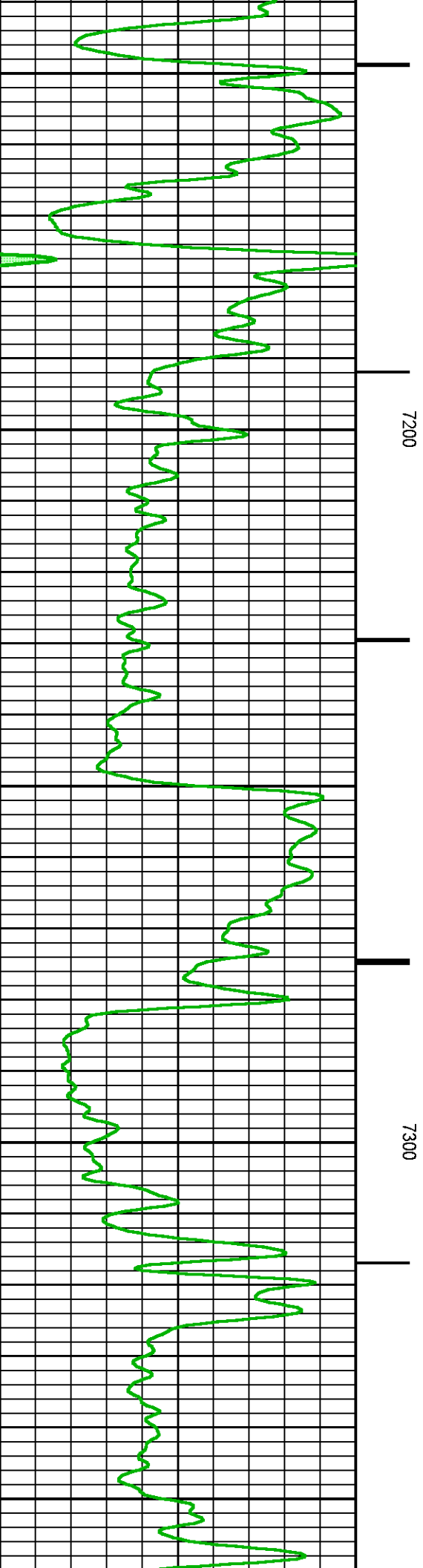
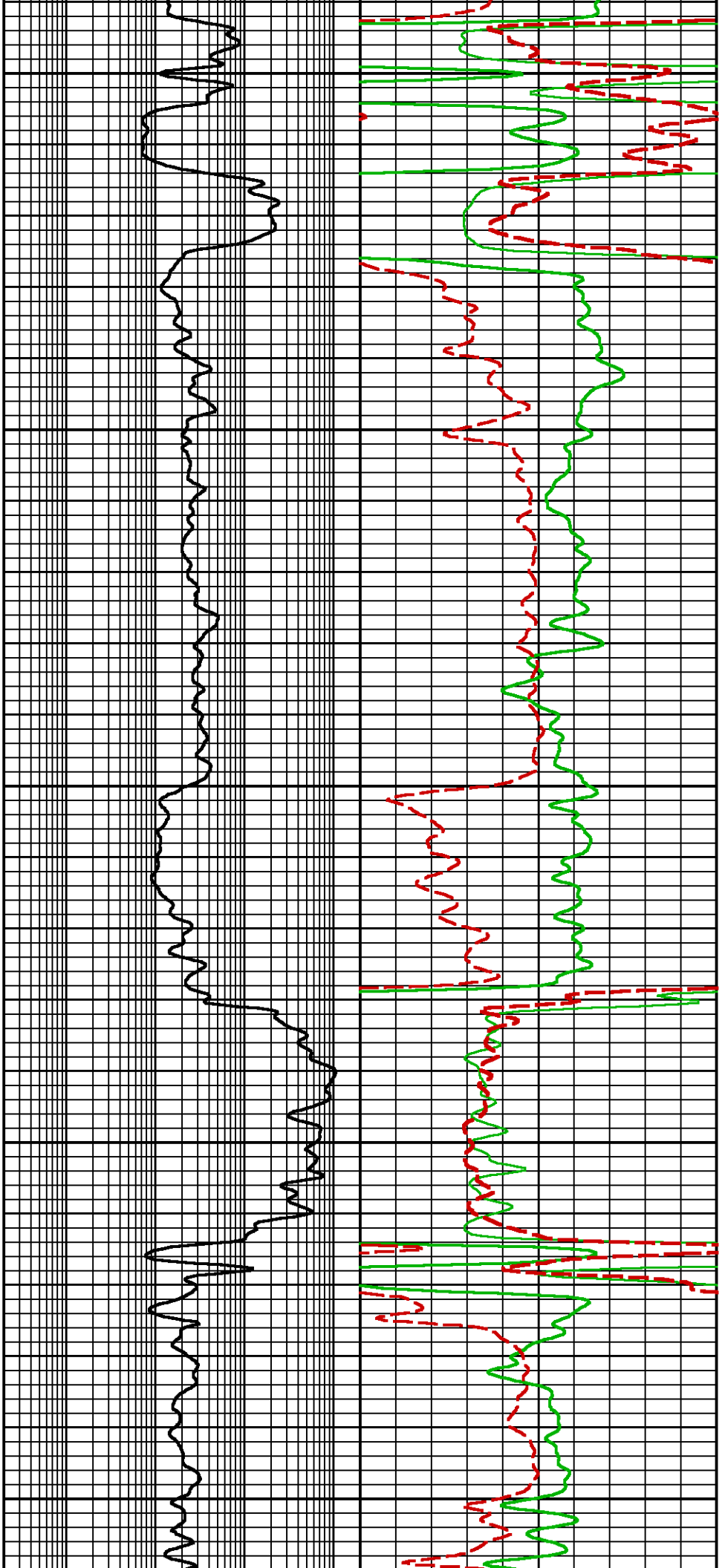


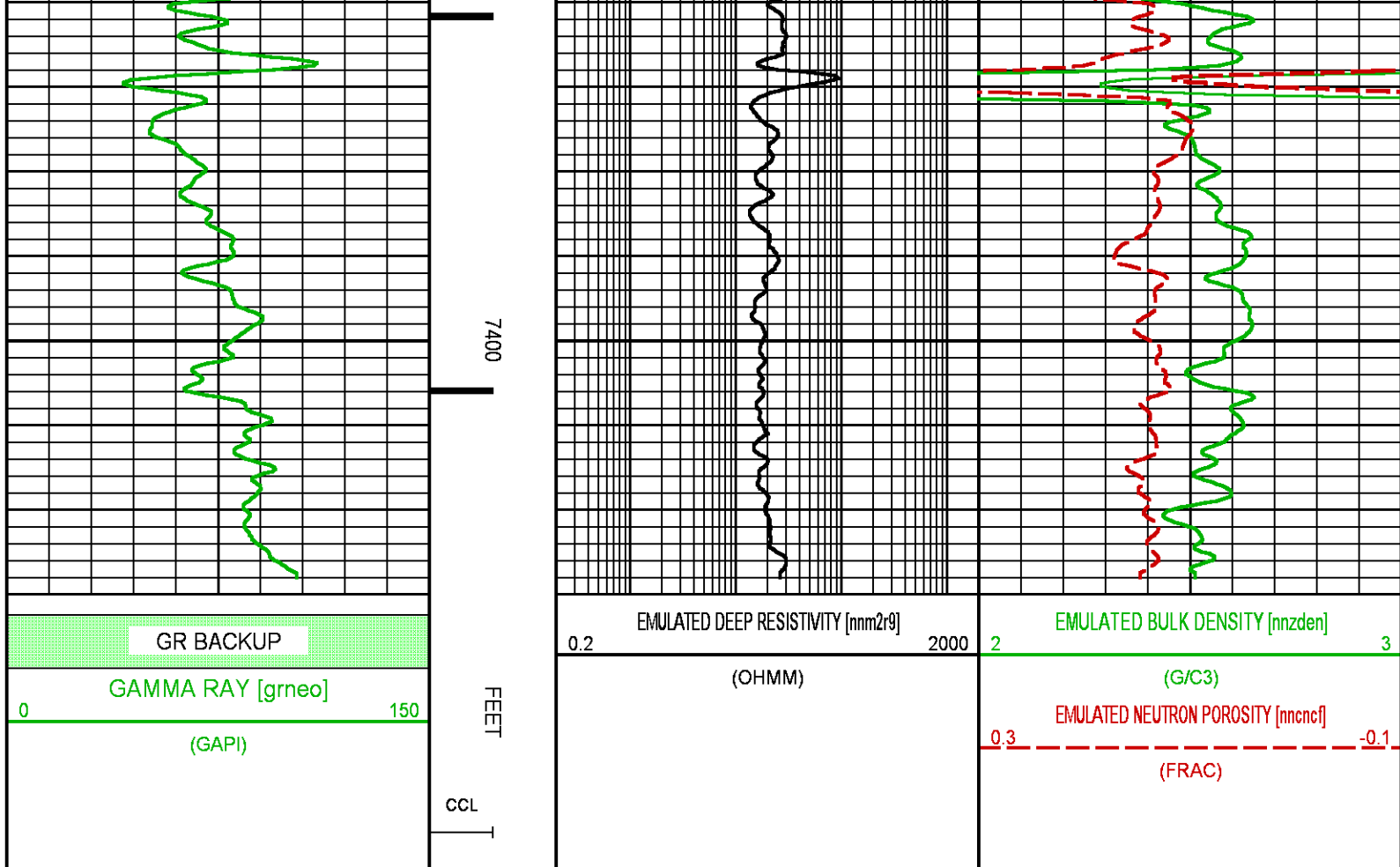




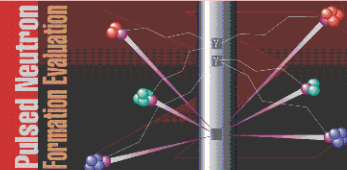










  	COMPANY <u>LARAMIE ENERGY</u> WELL <u>GUNDERSON 20-05W</u> FIELD <u>VEGA</u> COUNTY <u>MESA</u> STATE <u>COLORADO</u>	FILE NO: <u>28154-01</u> API NO: <u>05077103390000</u>	
	LOCATION: <u>SEE REMARKS SECTION</u>	ELEVATIONS: KB 7176.0 FT DF 7175.0 FT GL 7146.0 FT	
	SEC <u>20</u> TWP <u>9S</u> RGE <u>93W</u>	DATE <u>25-AUG-2017</u>	