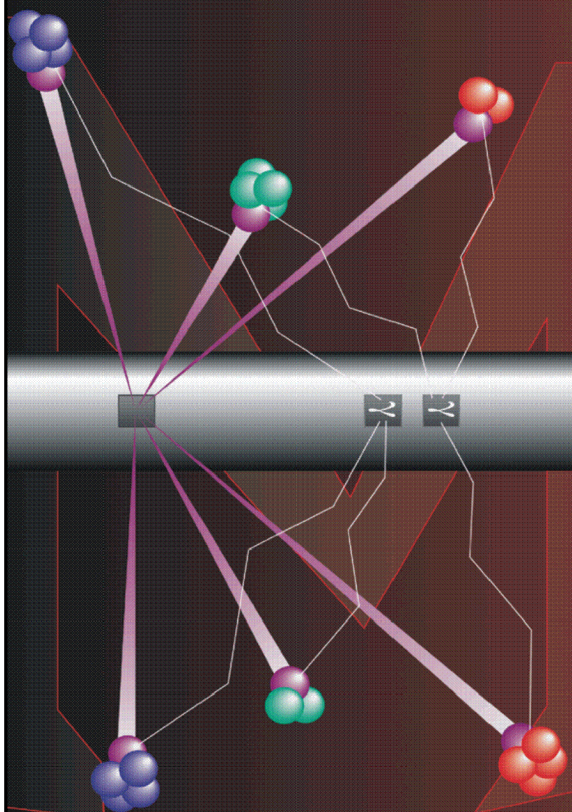




# Pulsed Neutron Formation Evaluation



## NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY

WELL GUNDERSON 29-09E

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS

SEC 29 TWP 9S RGE 93W

ELEVATIONS:

KB 7553 FT DF 7552 FT GL 7531 FT

DATE 27-JUL-2015 ECC 20005

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>DENVER GEOSCIENCE</u>		LOG ANALYST: <u>E. SIEGEL</u>		DATE: <u>27-JUL-2015</u>
FIELD DATA	LOCATION: <u>GRAND JCT</u>		ENGINEER: <u>P. EDWARDS/ 097899</u>		DATE: <u>15-JUL-2015</u>
FROM	TO	FROM	TO		
<u>2500 FT</u>	<u>3105 FT</u>	<u>4432 FT</u>	<u>7670 FT</u>		

### REMARKS

LOCATION: PAD 29-09  
SHL: 2393' FNL & 1140' FEL  
BHL: 2140' FNL & 851' FEL

ANALYST: E. SIEGEL  
REVIEWED BY: F. REINITZ

TRAINING WELL: GUNDERSON 29-11E

ANY ERROR IN THE TRAINING WELL OPEN HOLE DATA CAN PERPETUATE THOROUGH AS AN ERROR IN THE EMULATED DATA.

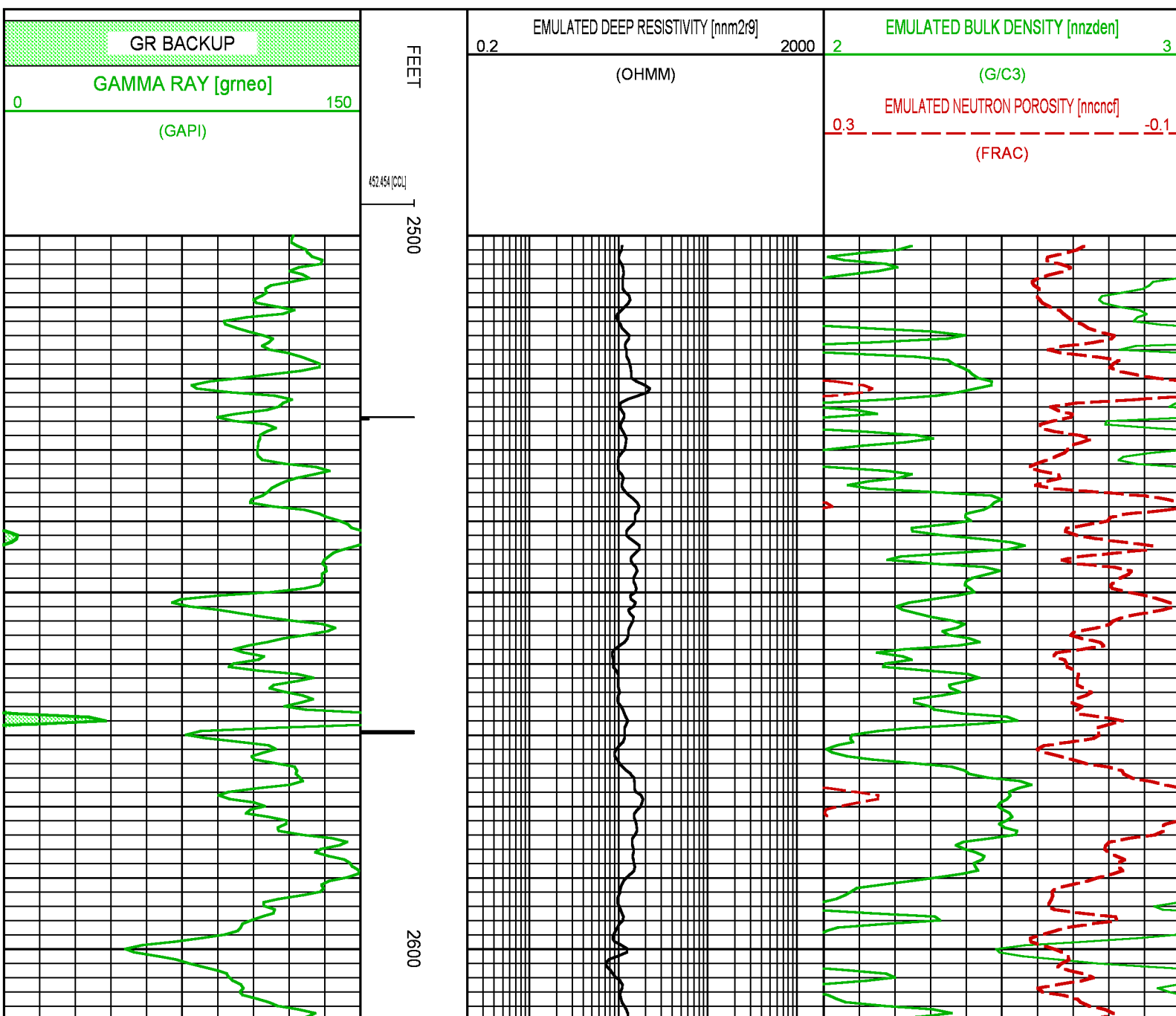
## NEO RESULTS FOR GUNDERSON 29-09E (GSAND)

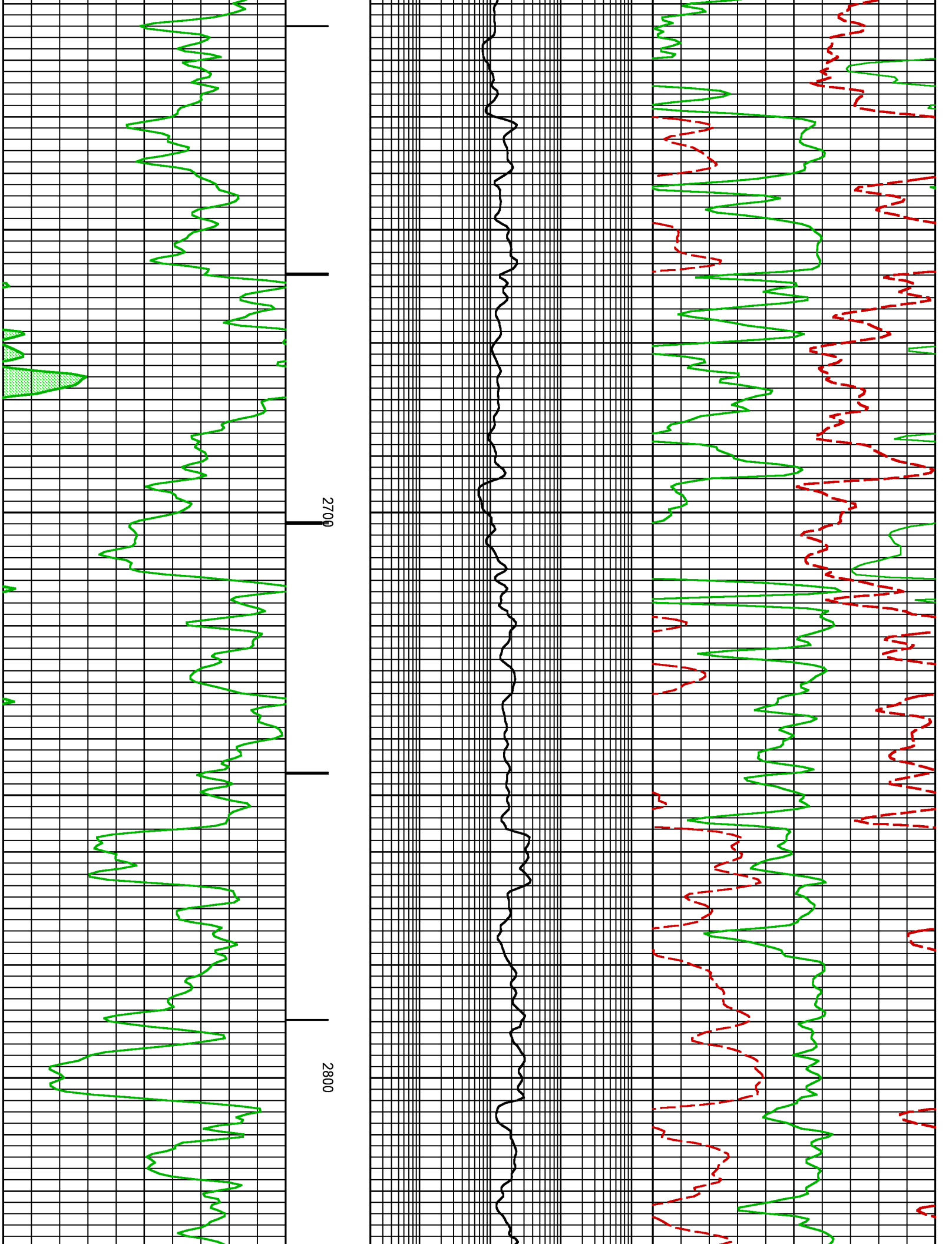
ECLIPS EC PLOT 6.2 ECLIPS Plotting &amp; Post-Processing Mon 11/17/2014 14:36:44.29

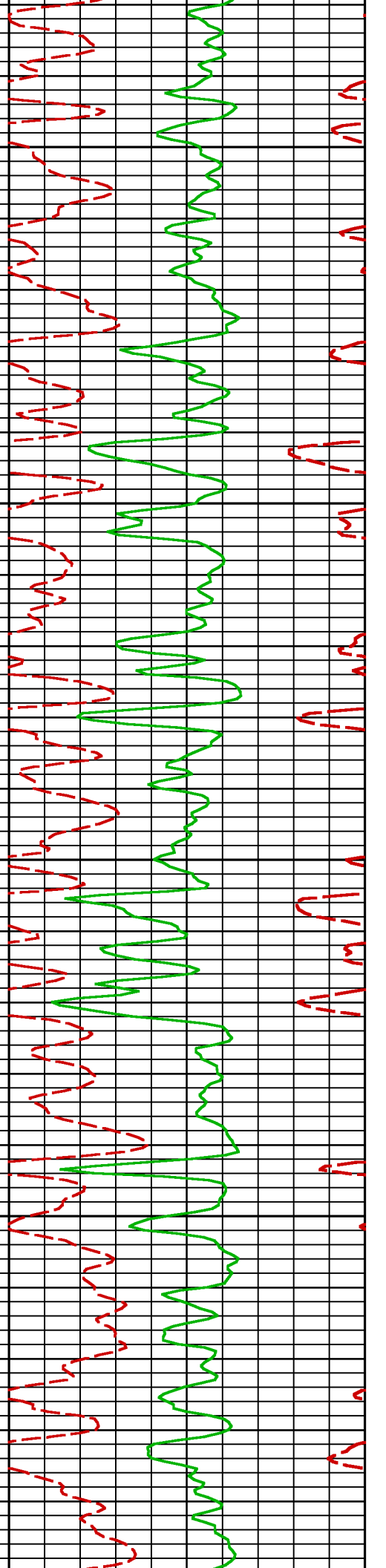
Plotted: Mon Jul 27 11:03:20 2015

## CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	25.00	NNCNC	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

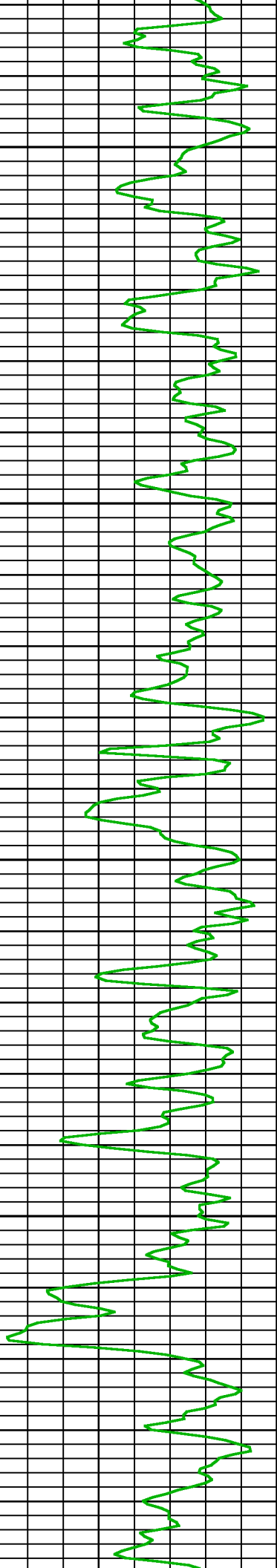


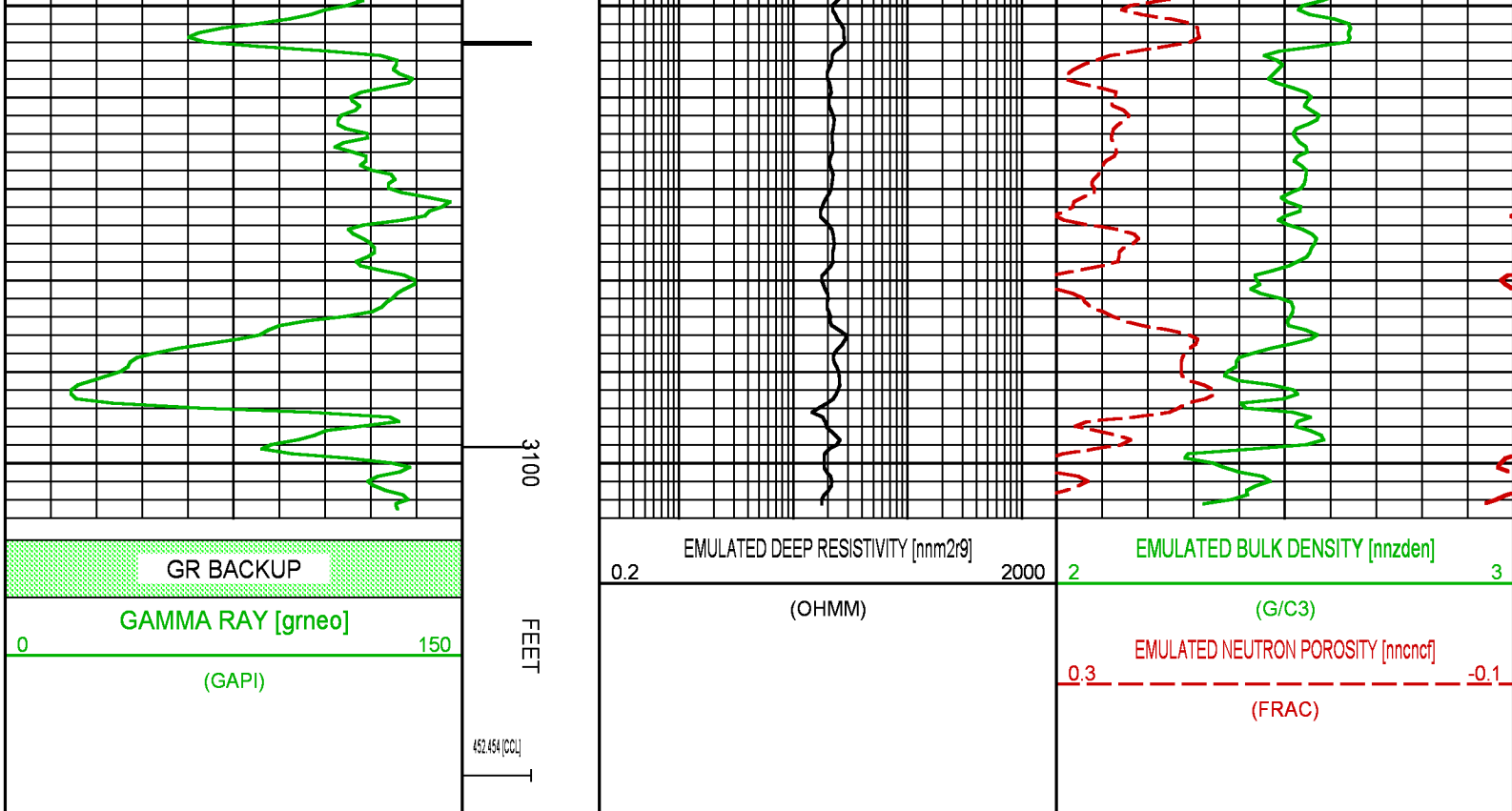




2900

3000





## NEO RESULTS FOR GUNDERSON 29-09E (MAIN)

ECLIPS EC PLOT 6.2 ECLIPS Plotting & Post-Processing Mon 11/17/2014 14:36:44.29

Plotted: Mon Jul 27 11:02:15 2015

### CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
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GRNEO	0.00	NNM2R9	0.00				

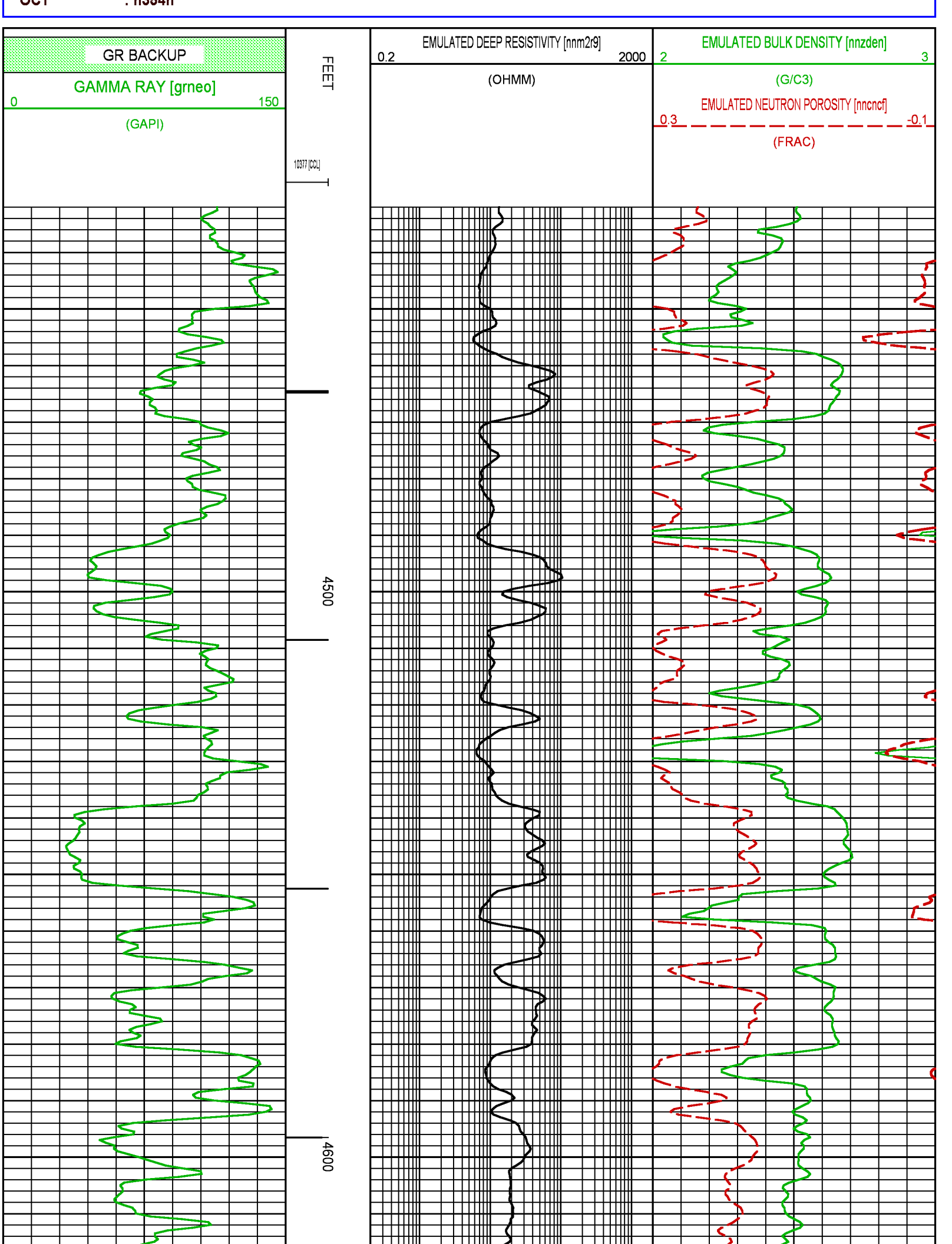
Project : NA  
 User : siegemi  
 Presentation : BHI76JSXW1:C:\Ape\_Projects\20005\_LARAMIE\_GUNDERSON\_29\_09E\NEO\_PRESENTATION.pdf [5"/100' Scale]  
 Plot Interval : 4432 - 7670

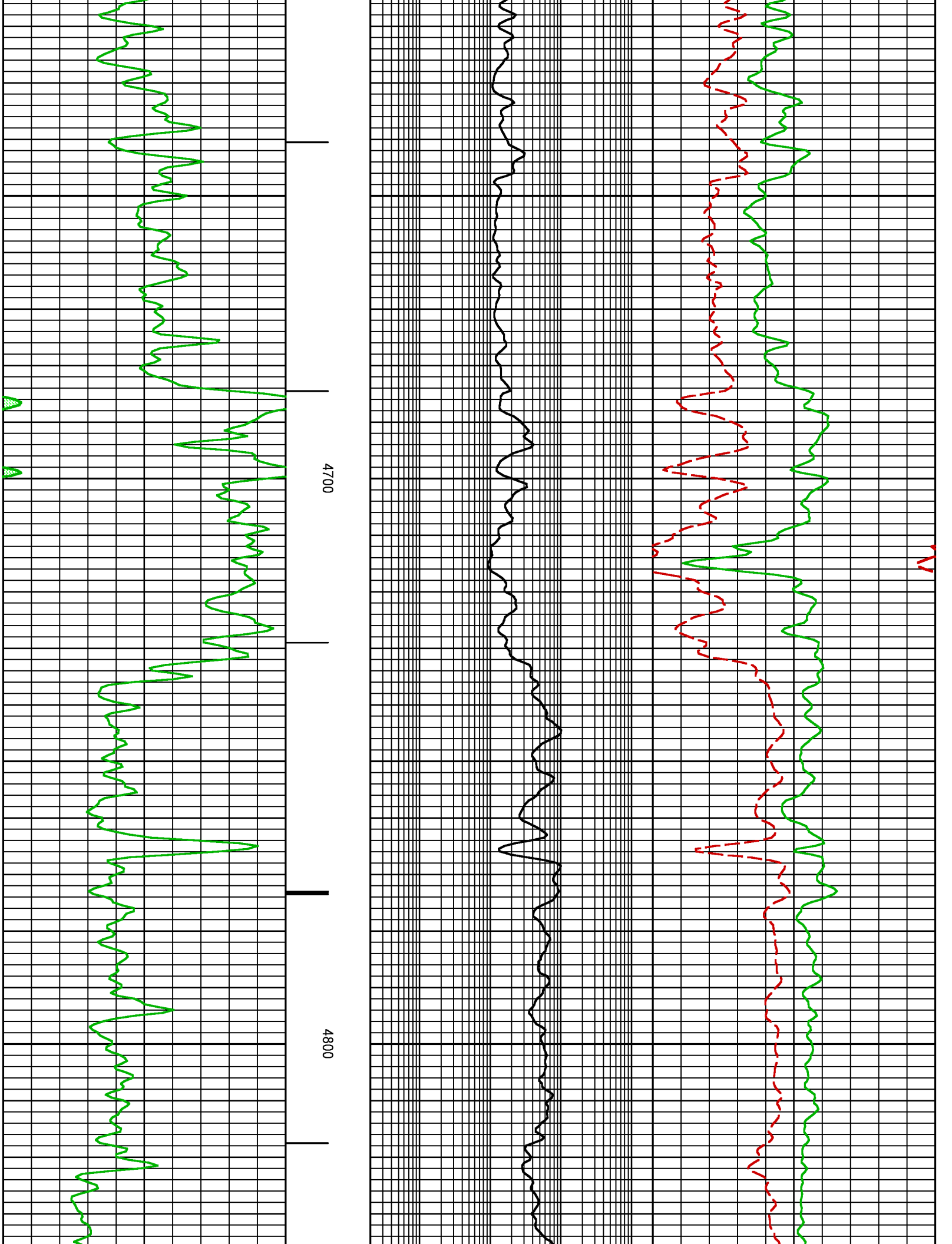
Data File 1 : F1 : BHI76JSXW1:C:\Ape\_Projects\20005\_LARAMIE\_GUNDERSON\_29\_09E\29-09E\_Merged\_Set\_FINAL\_MAIN.xtf

Created On : Jul 27 10:59:52 2015  
 Company : LARAMIE ENERGY  
 Well : GUNDERSON 29-09E  
 Field : VEGA  
 File Interval : 4406 - 7672  
 OCT : NA

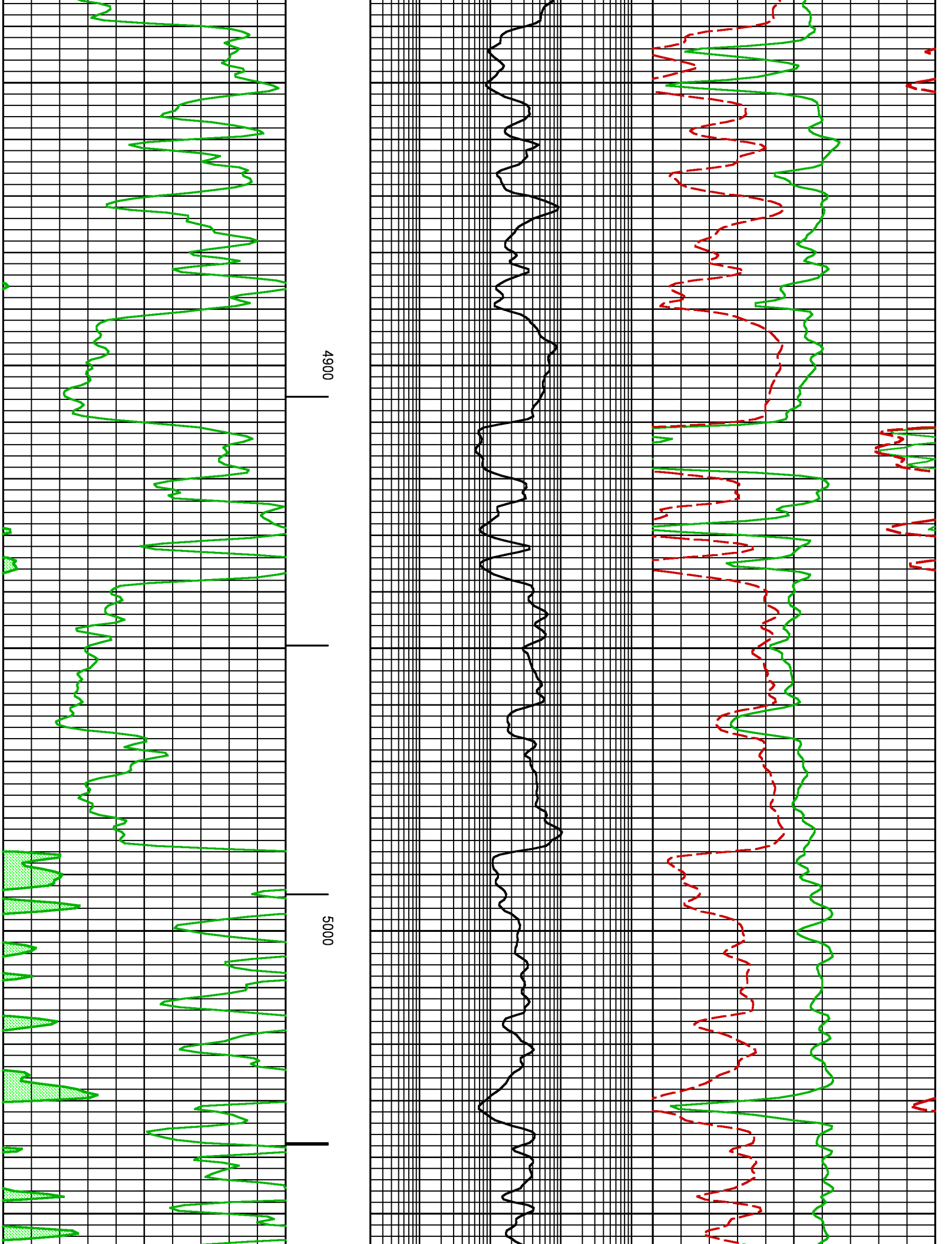
Data File 2 : F2 : BHI76JSXW1:C:\Ape\_Projects\20005\_LARAMIE\_GUNDERSON\_29\_09E\n354h02MAIN9E.xtf

Created On : Jul 15 14:07:09 2015  
 Company : LARAMIE ENERGY  
 Well : GUNDERSON 29-9E  
 Field : VEGA  
 File Interval : 4405.25 - 7700 Feet  
 OCT : n354h

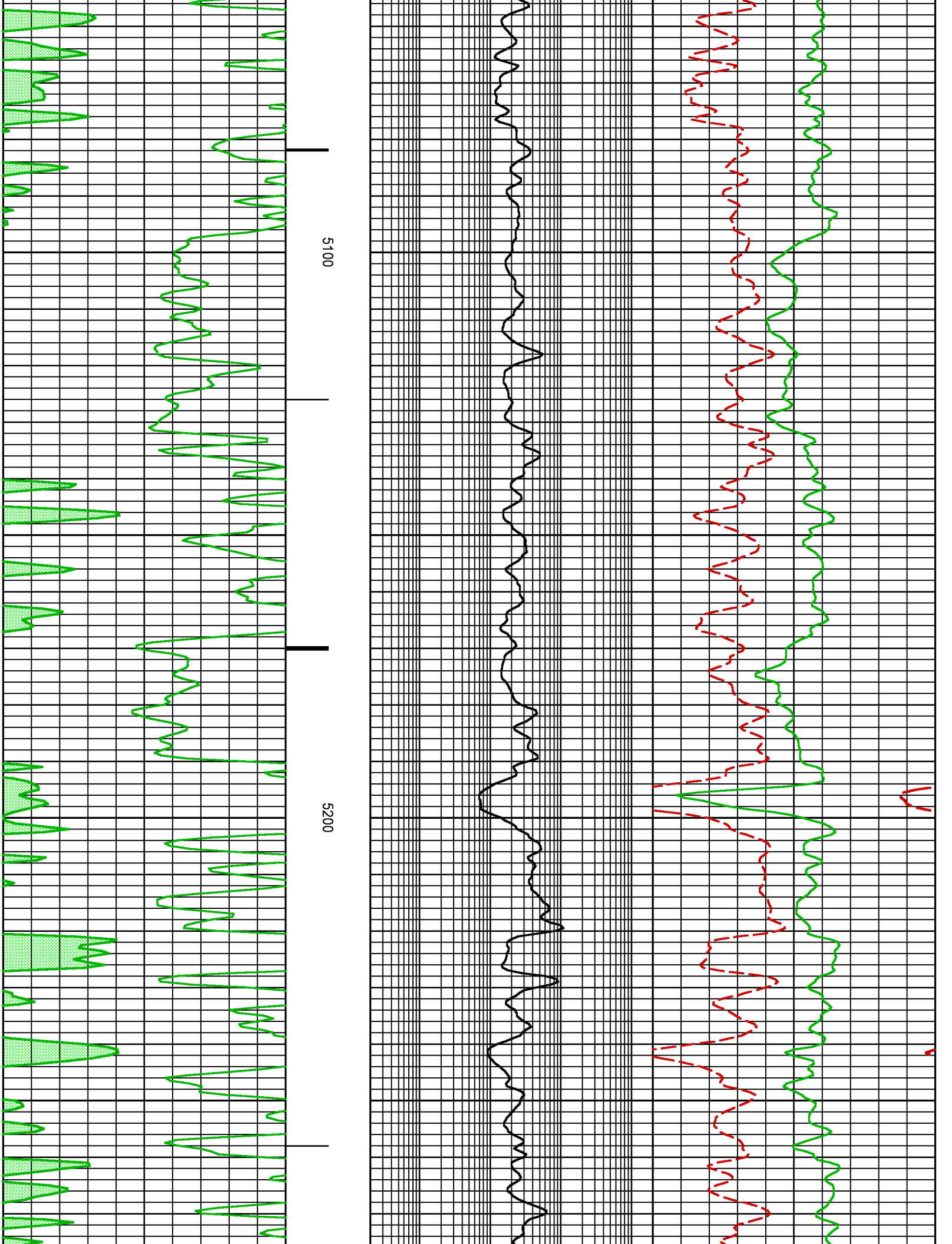


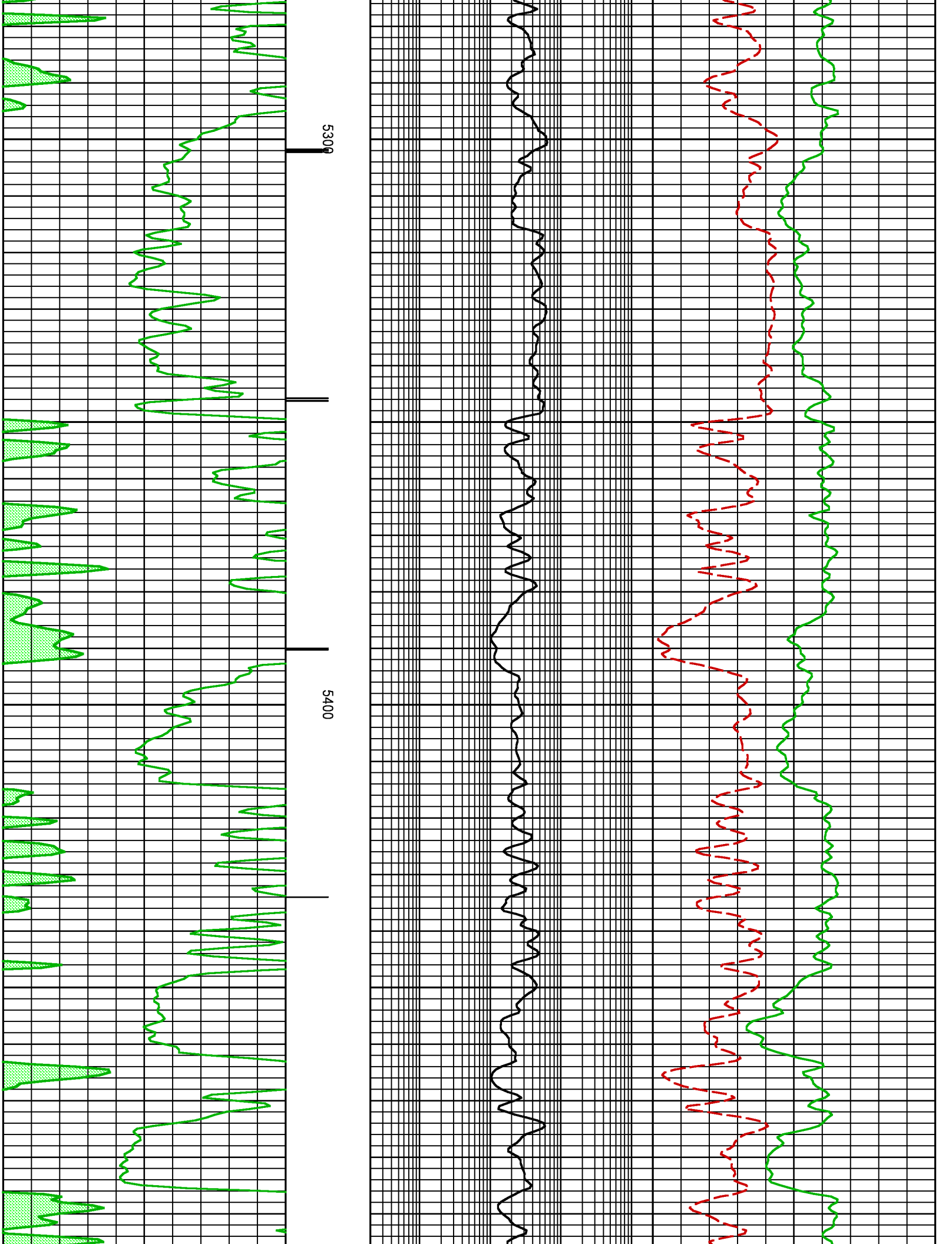


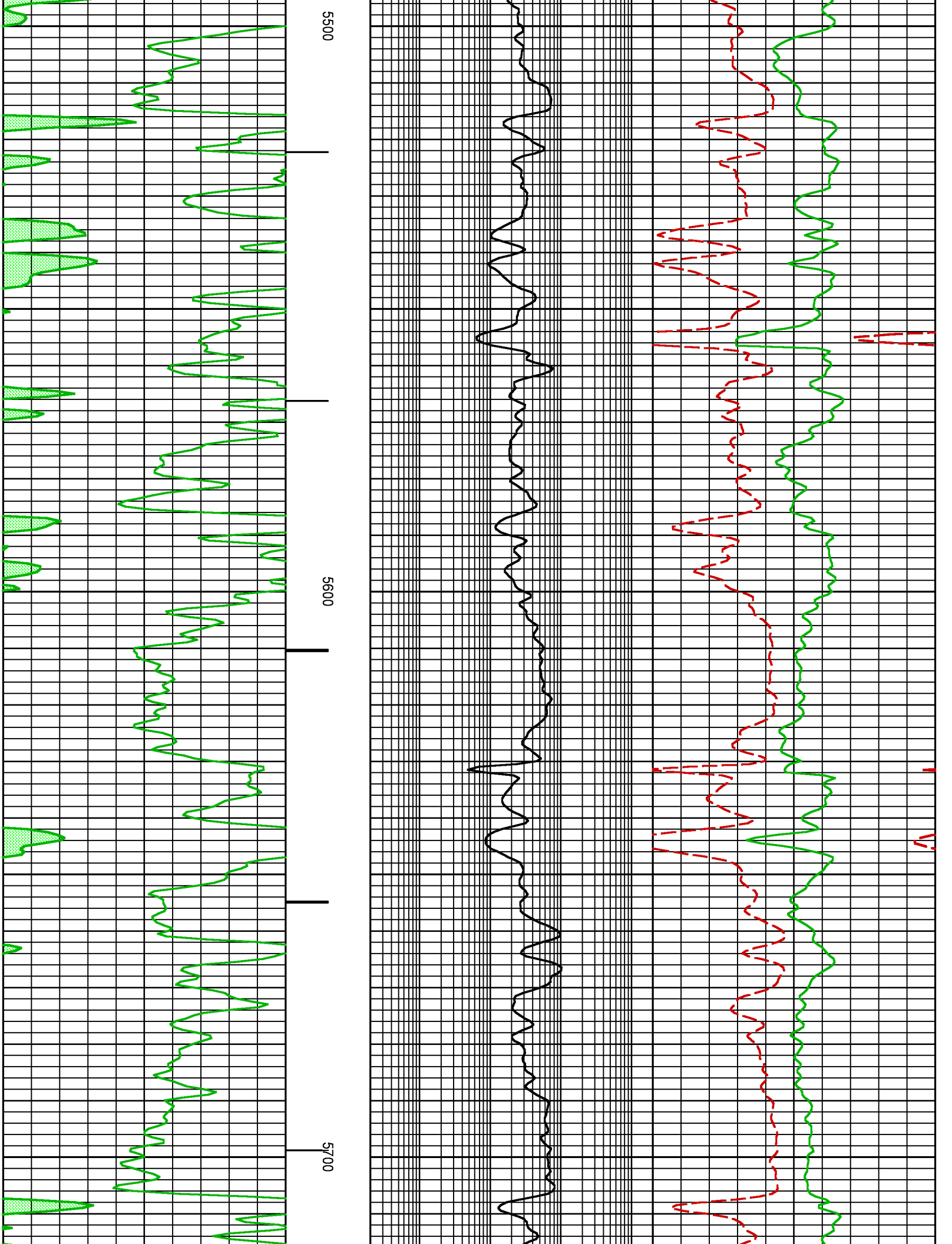


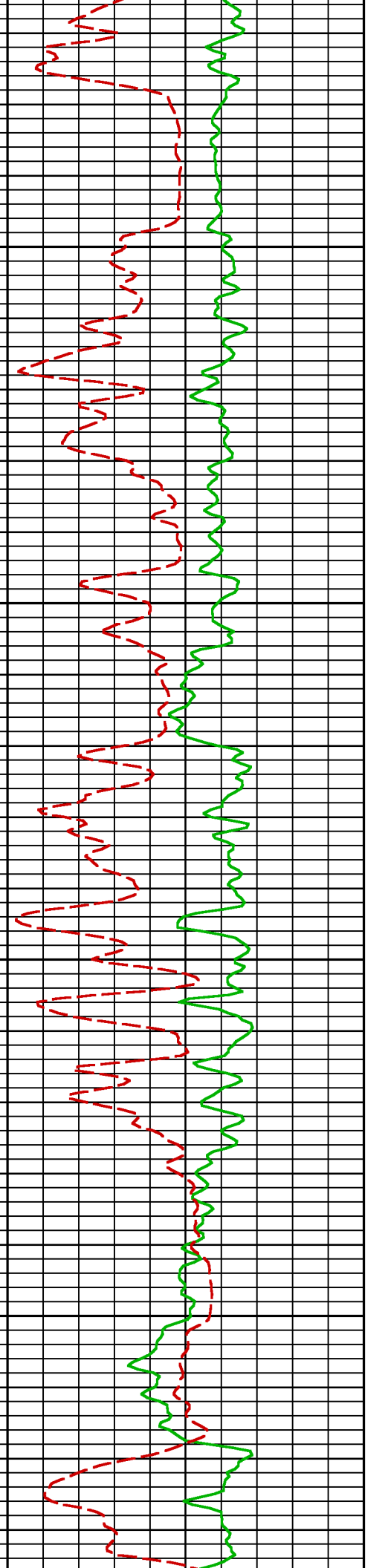
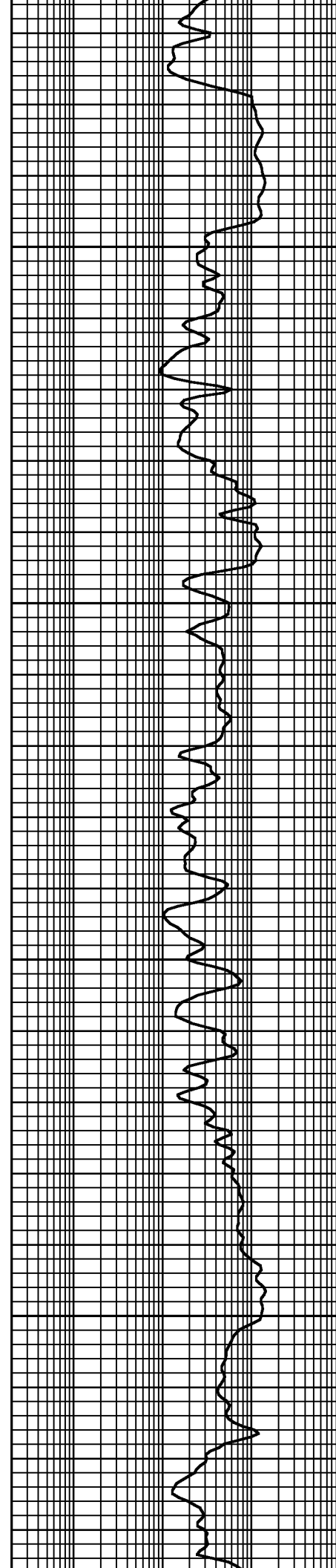
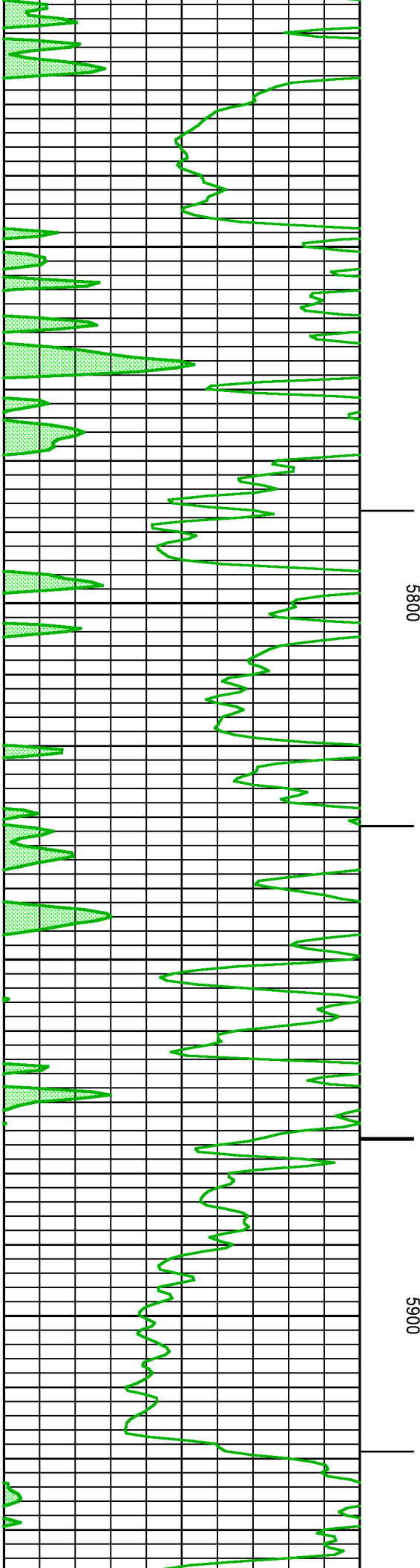


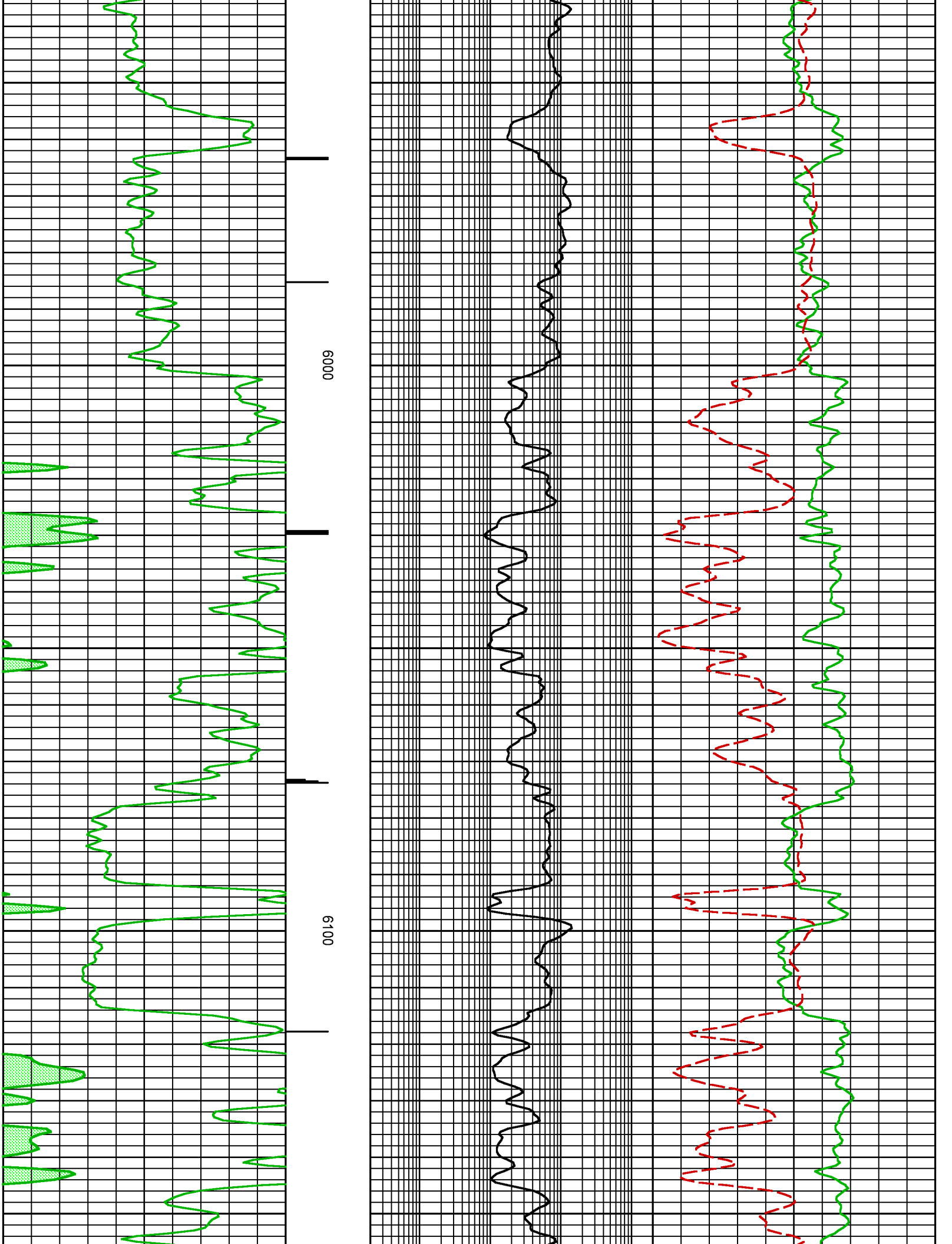


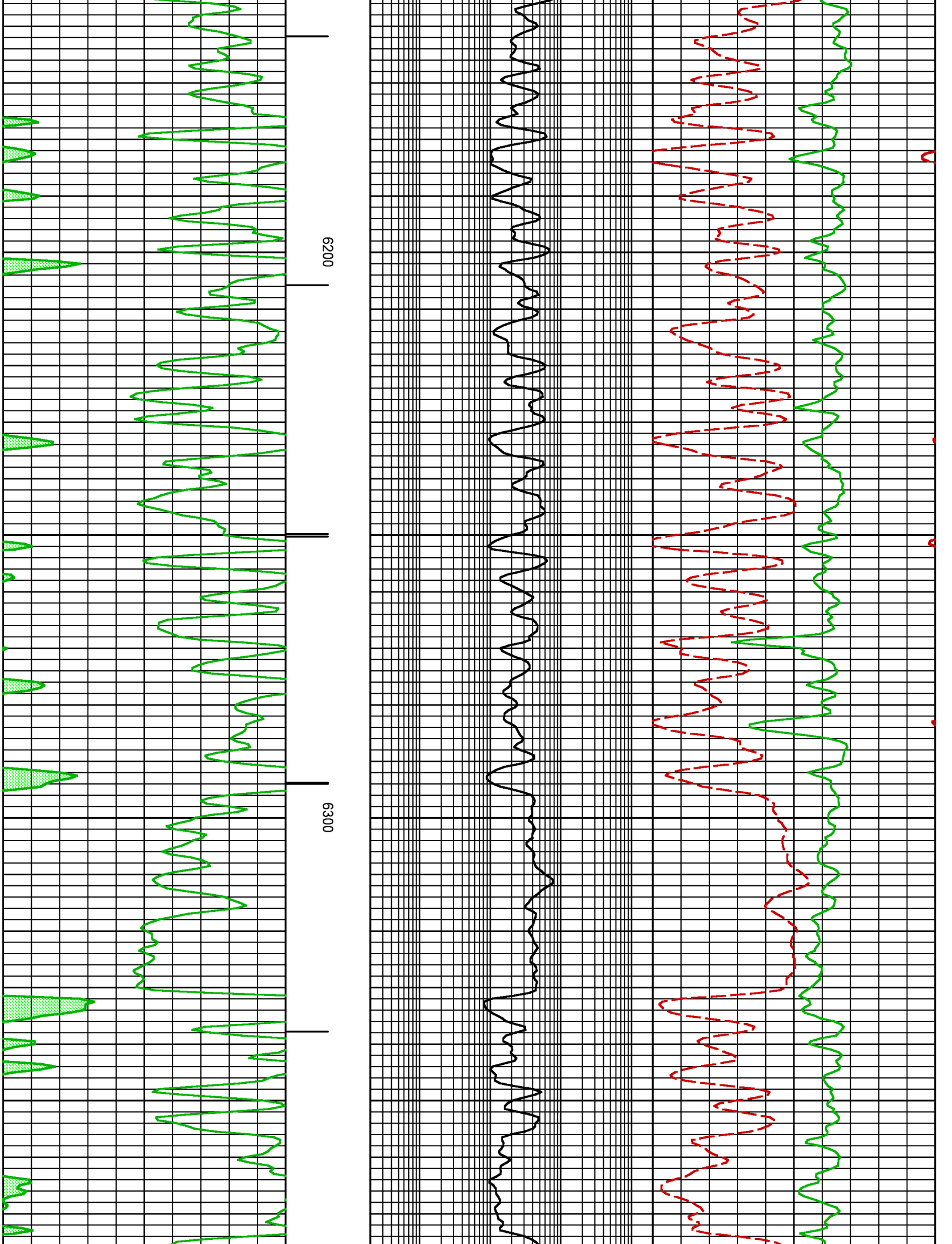


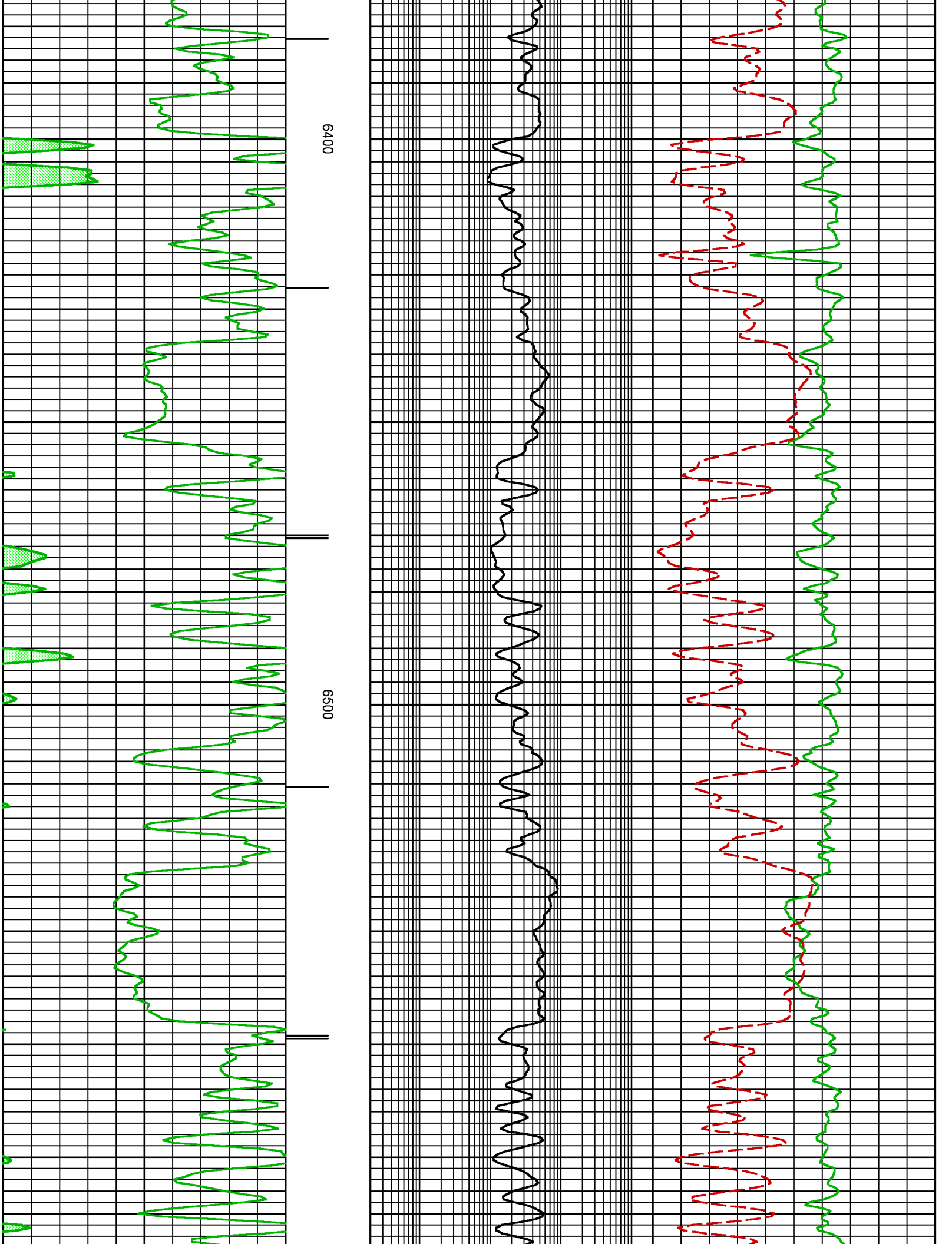




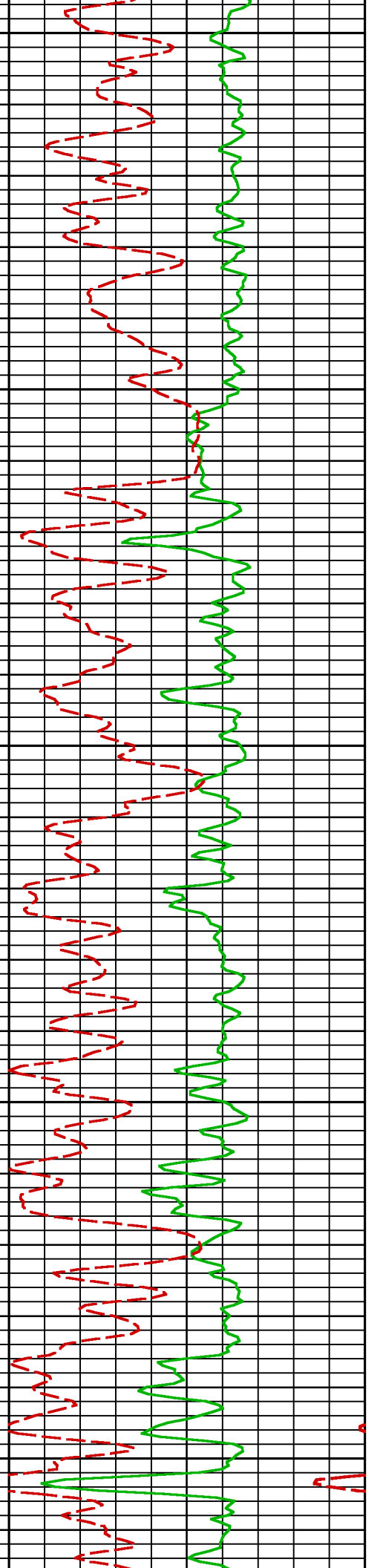
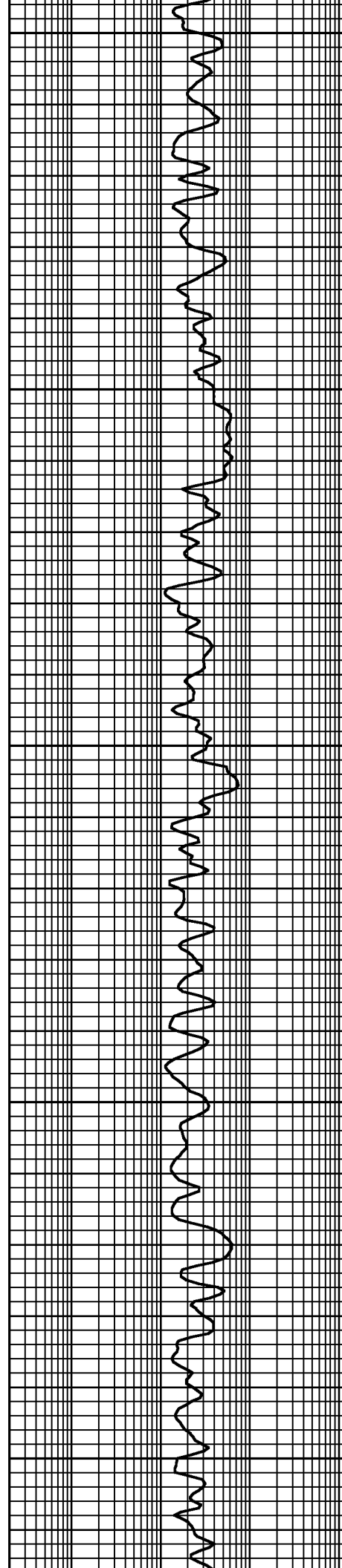
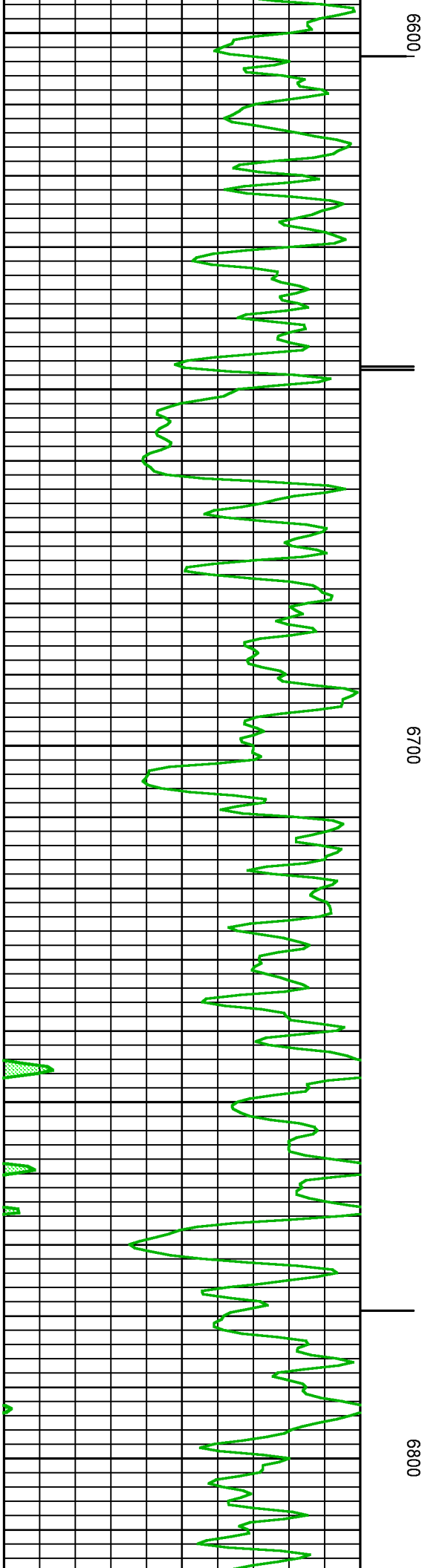


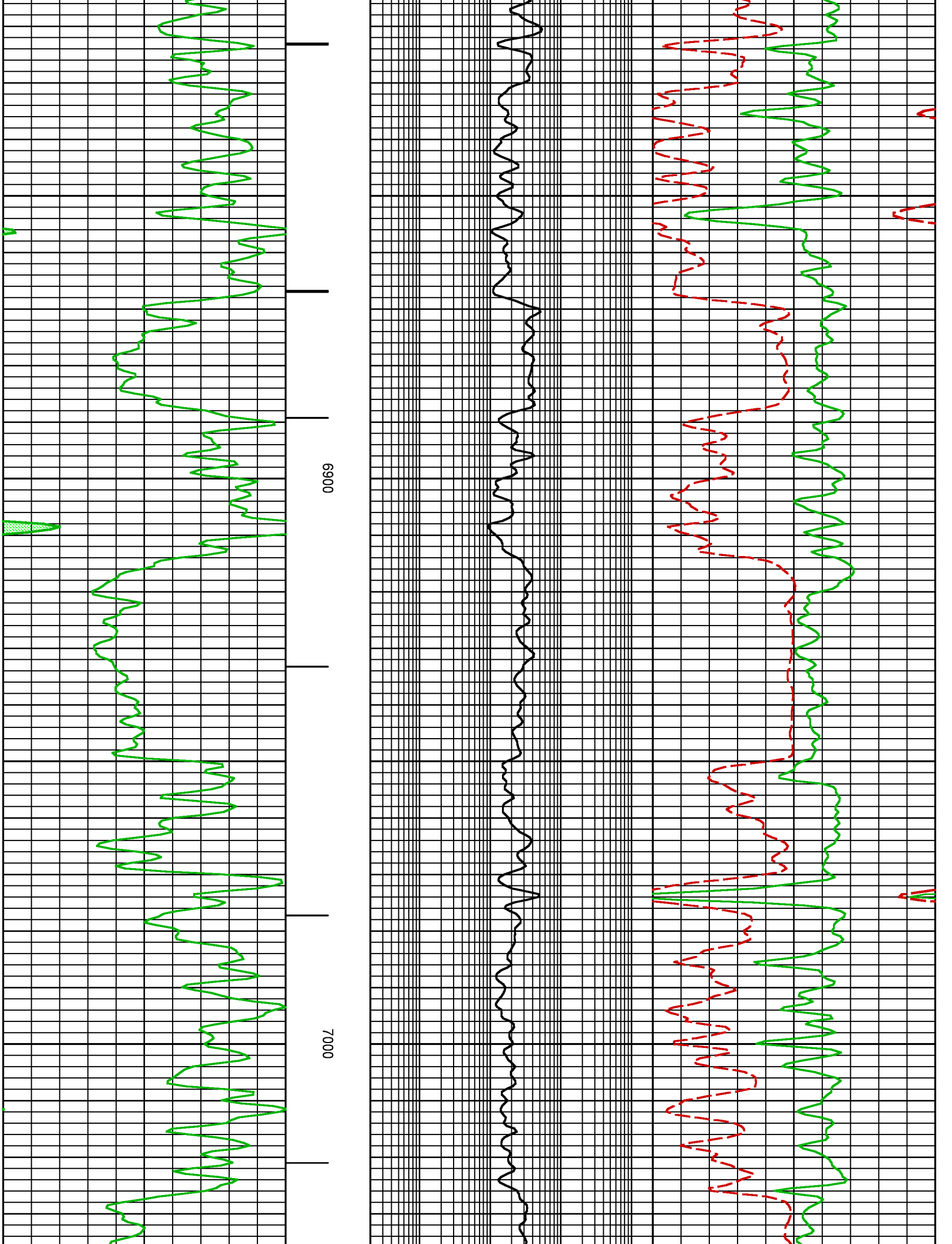


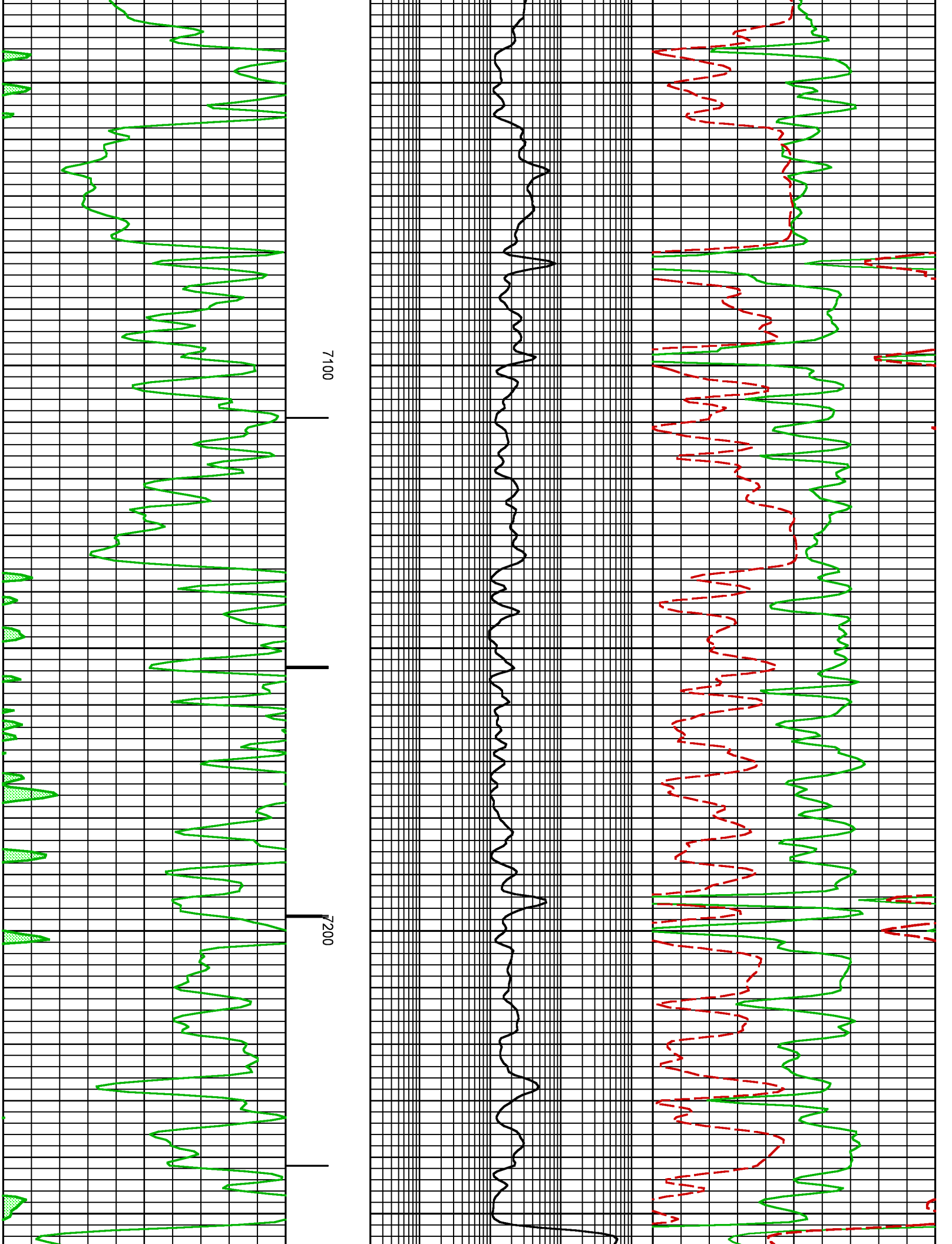


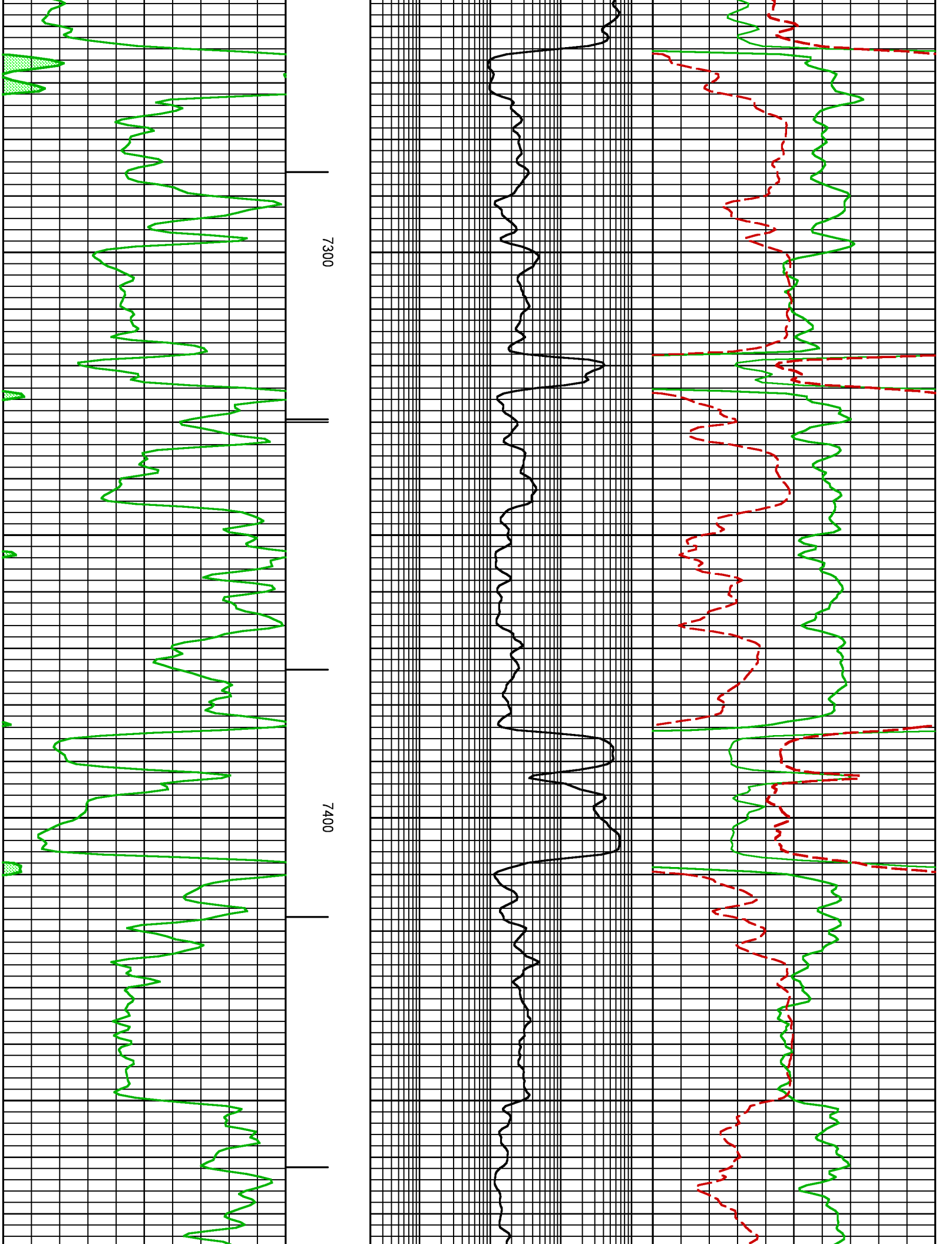


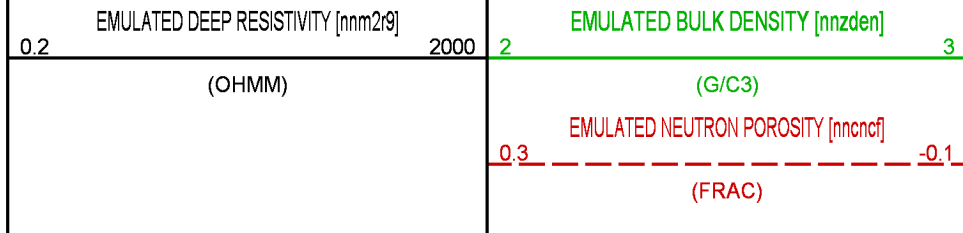
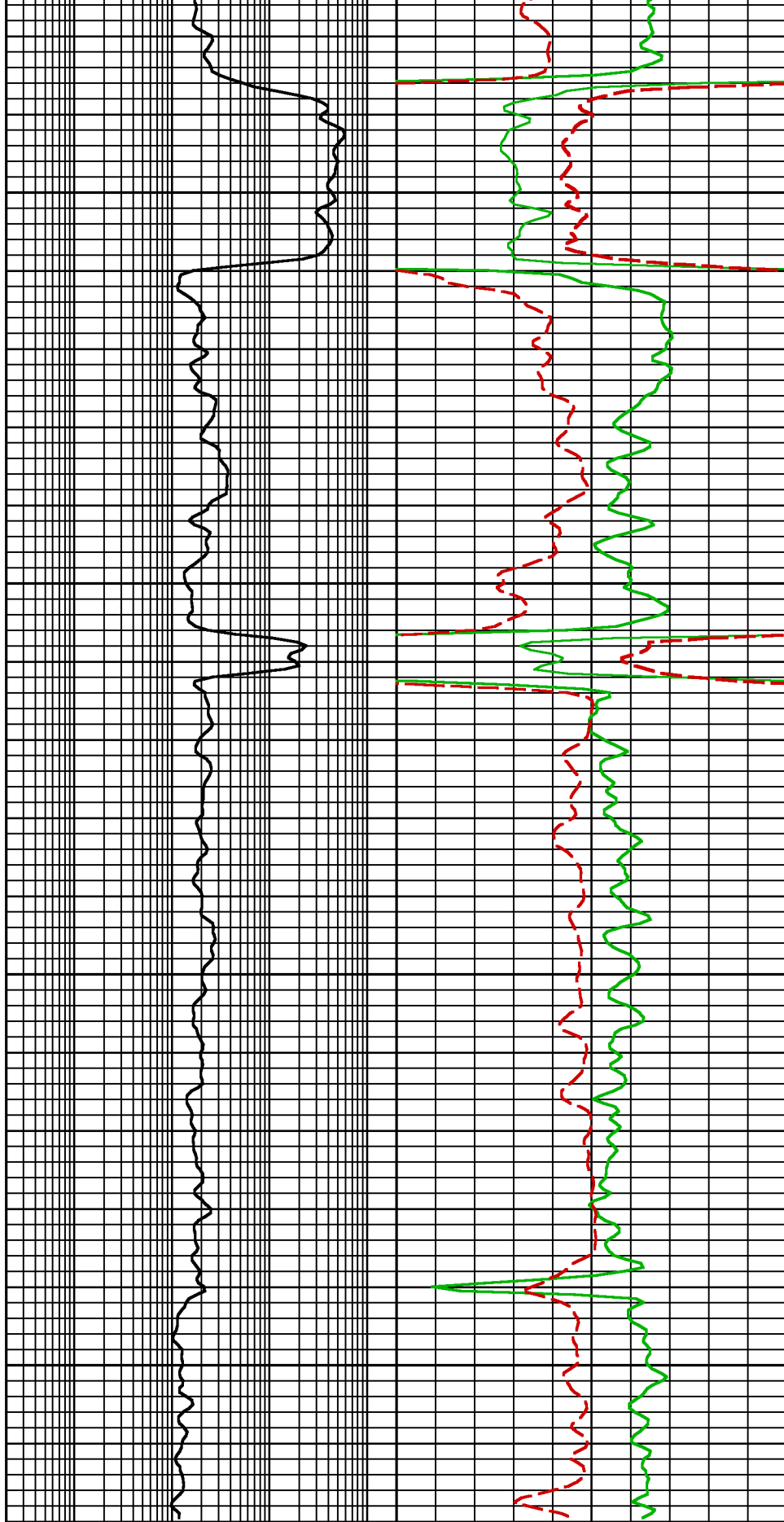
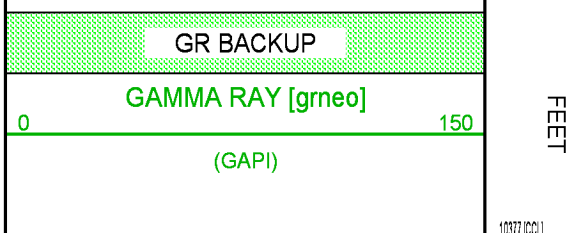
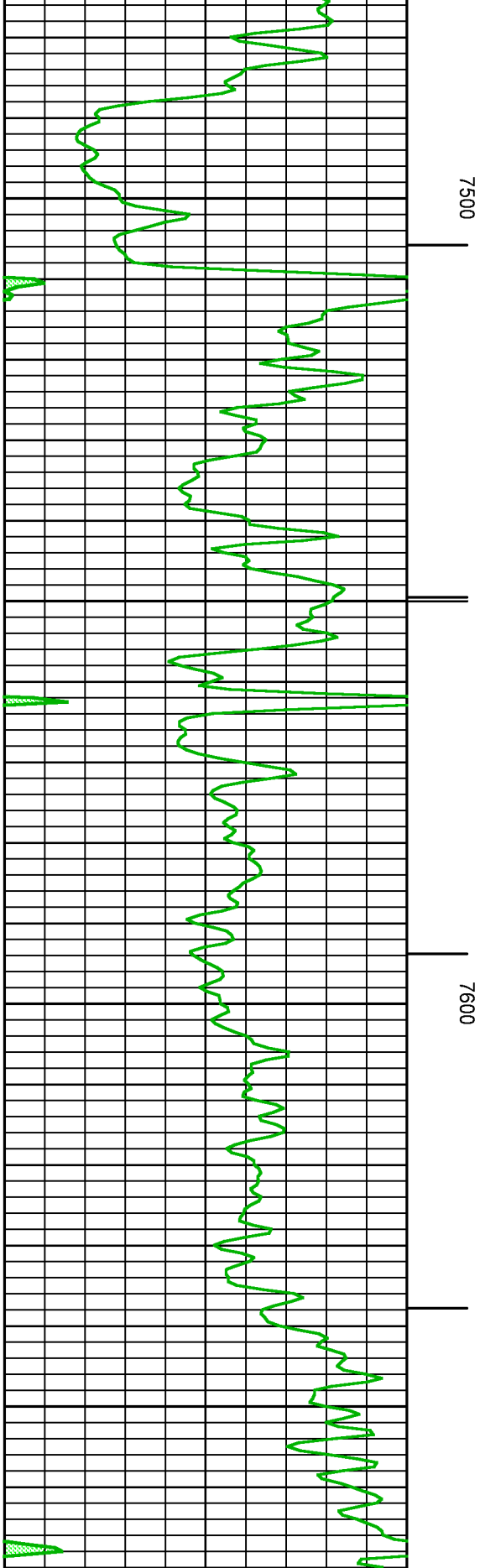


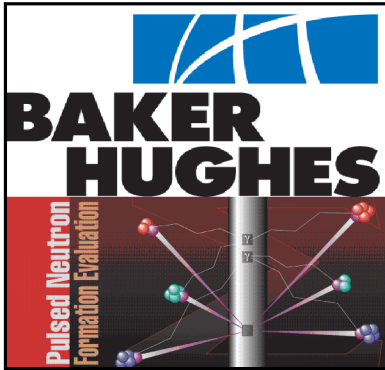










	COMPANY <u>LARAMIE ENERGY</u>		FILE NO:
	WELL <u>GUNDERSON 29-09E</u>		<u>20005</u>
	FIELD <u>VEGA</u>		API NO:
	COUNTY <u>MESA</u>	STATE <u>COLORADO</u>	<u>05077097620000</u>
LOCATION:  <u>SEE REMARKS</u>		ELEVATIONS: KB <u>7553 FT</u> DF <u>7552 FT</u> GL <u>7531 FT</u>	FSO: <u>097899</u> GRAND JCT P. EDWARDS
SEC <u>29</u> TWP <u>9S</u> RGE <u>93W</u>		DATE <u>27-JUL-2015</u>	