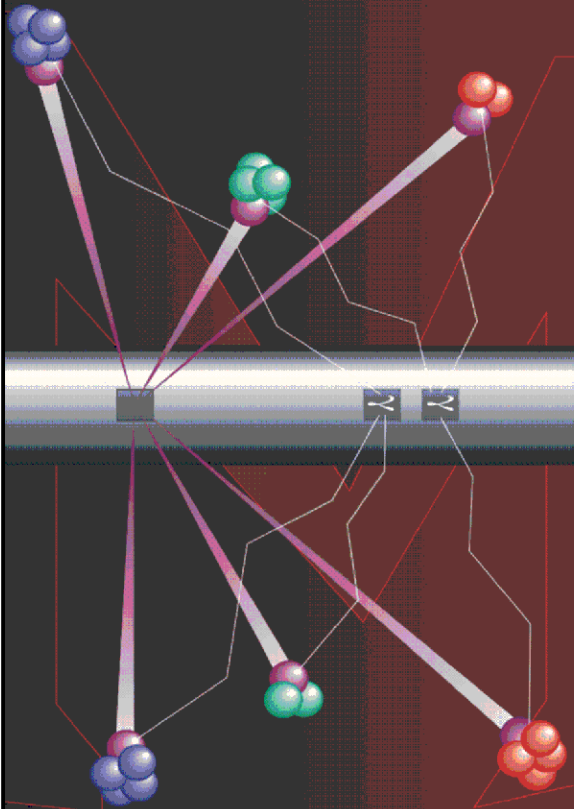


Pulsed Neutron Formation Evaluation



RESERVOIR PERFORMANCE MONITOR NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY

WELL BRUTON 30-16W

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS

SEC 30 TWP 9S RGE 93W

ELEVATIONS:

KB 7673 FT DF GL 7643 FT

DATE 15-FEB-2018 ECC 30317.01

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>HOUSTON</u>	LOG ANALYST: <u>KIMBERLY ELLSWORTH</u>	DATE: <u>15-FEB-2018</u>
FIELD DATA	LOCATION: <u>GRAND JUNCTION</u>	ENGINEER: <u>M. MENTZER</u>	DATE: <u>11-FEB-2018</u>
FROM	TO		
<u>2700 FT</u>	<u>8002 FT</u>		

REMARKS

LOCATION: SHL: 2646' FSL & 1873' FEL
BHL: 1431' FSL & 1305' FWL

TRAINING WELL:
BRUTON 30-14E

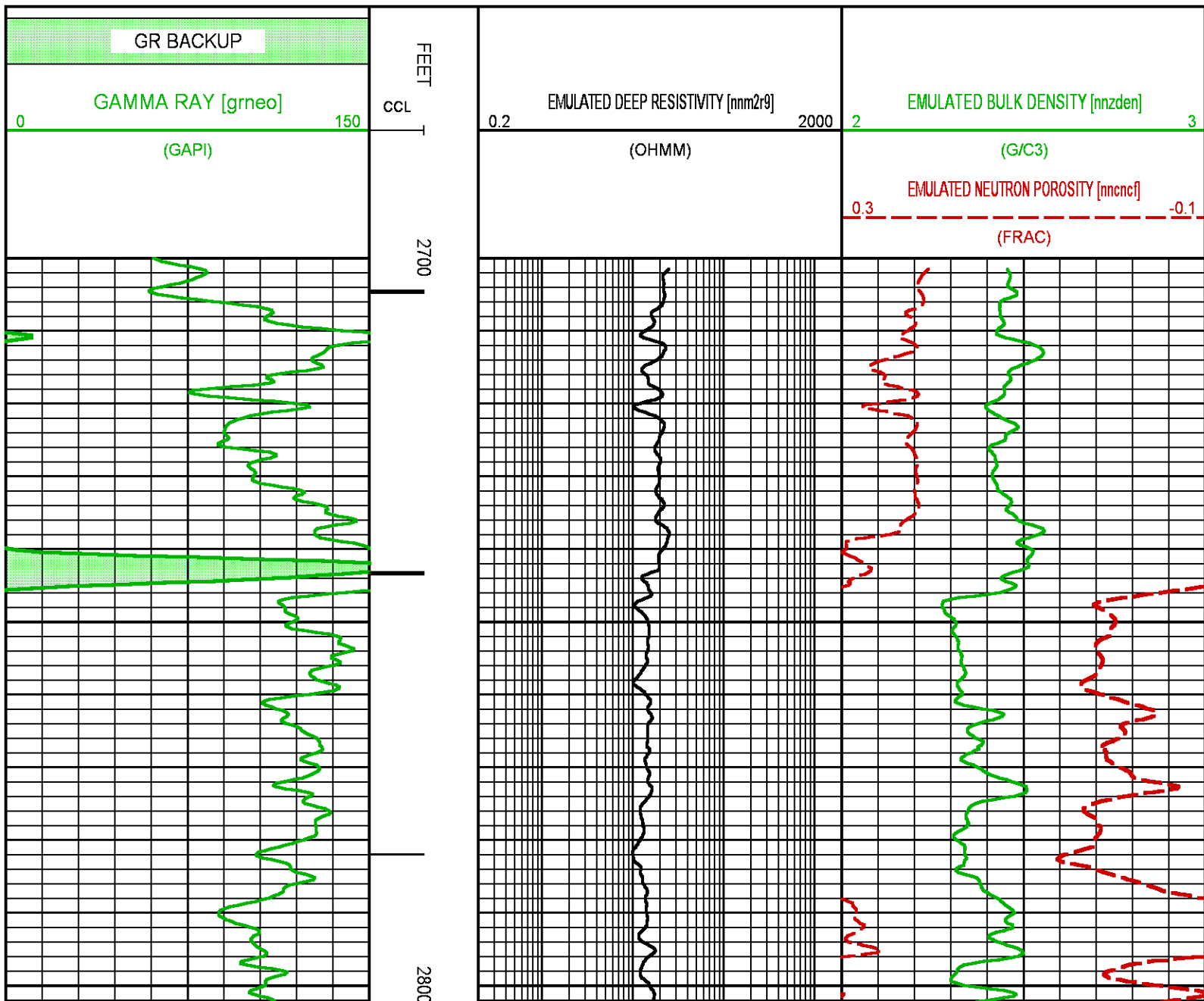
ANY ERRORS IN THE TRAINING WELL OPENHOLE DATA CAN PERETUATE THROUGH AS ERROR IN THE EMULATED RESULTS

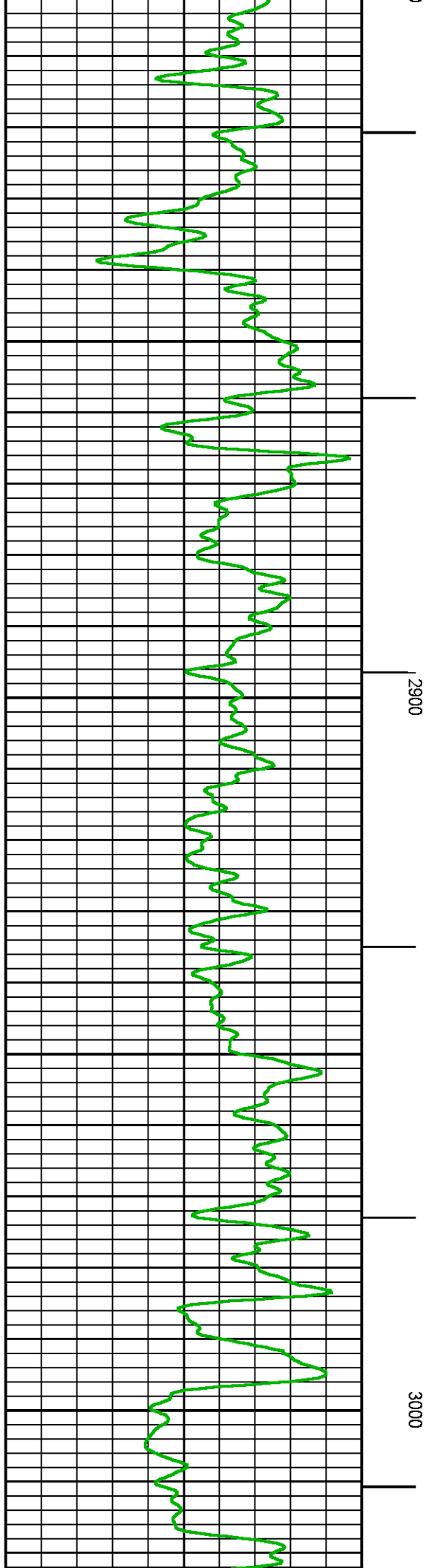
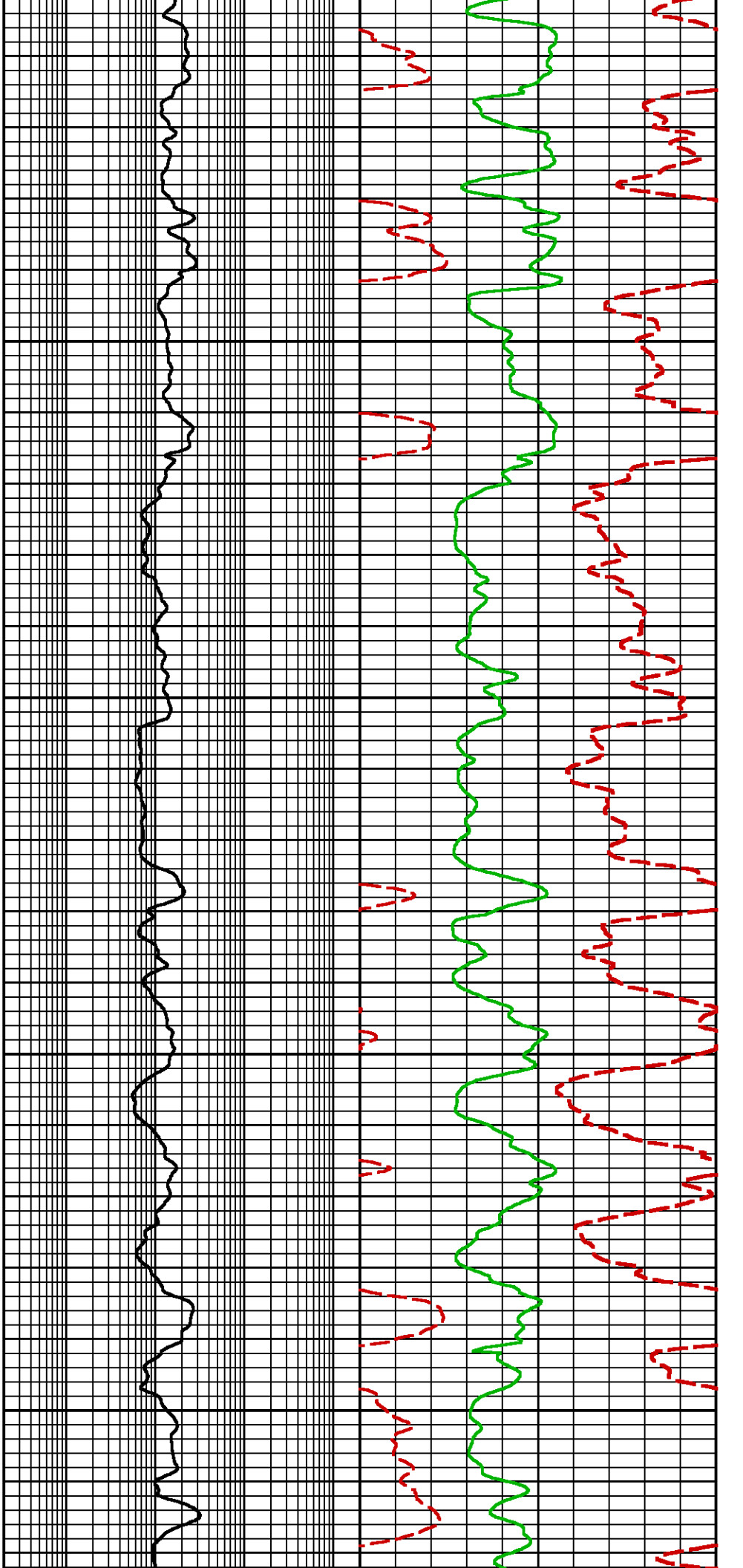
BOND LOG IS DEPTH REFERENCE LOG

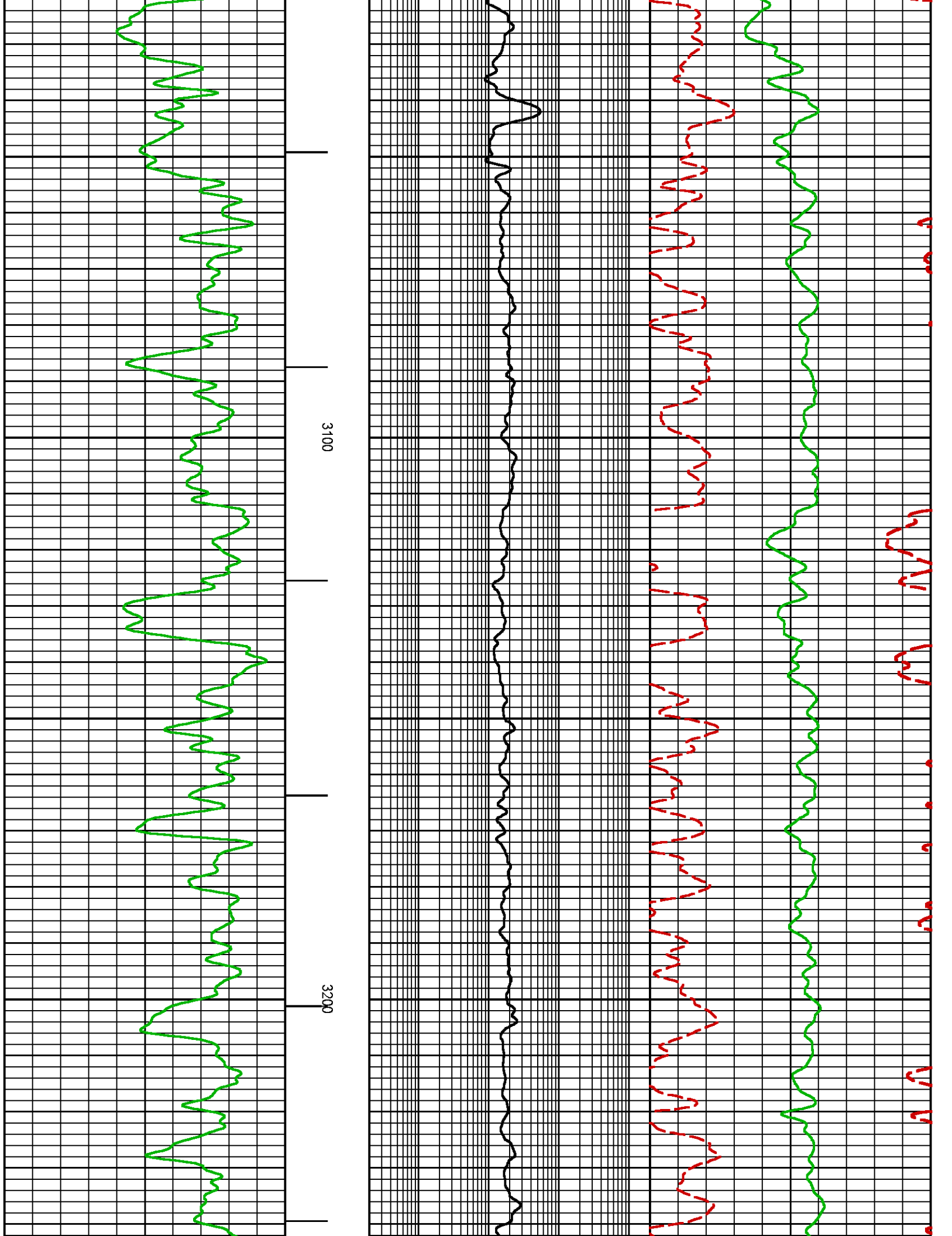
NEO RESULTS FOR BRUTON 30-16W (G-SAND)

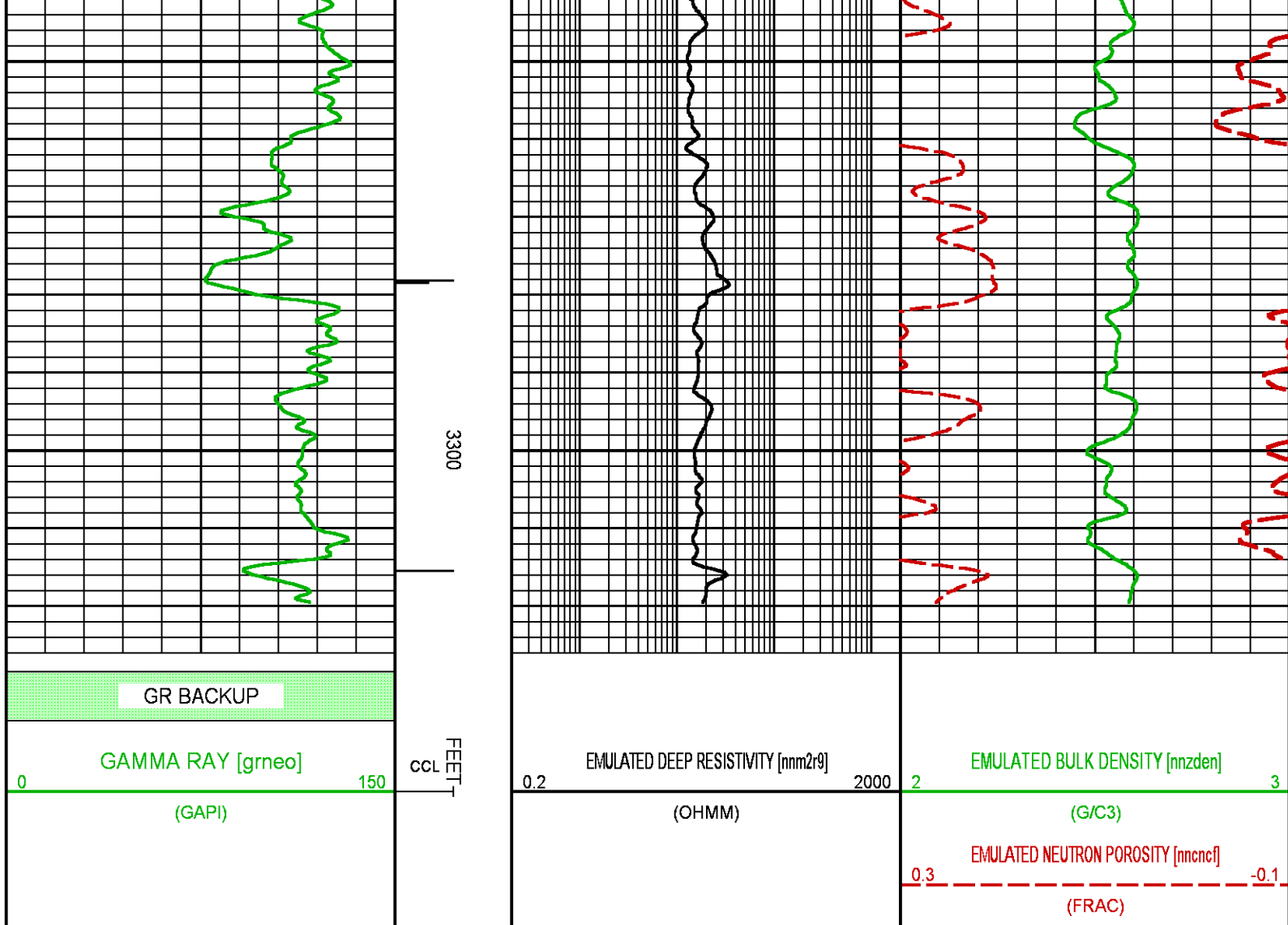
Project : NA
User : ellskima
Presentation : BHI3BKZH12:C:\Ape_Projects\laramie_bruton_30_16w\NEO_PRESENTATION_LARAMIE_G-Sand.pdf [5"/100' Scale]
Plot Interval : 2700 - 3325 Feet

Data File 1 : F1 : BHI3BKZH12:C:\Ape_Projects\laramie_bruton_30_16w\Merged_Set_Final.xtf
Created On : N/A
Company : LARAMIE ENERGY LLC
Well : BRUTON 30-16W
Field : VEGA
File Interval : 2700 - 8002 Feet
OCT : NA



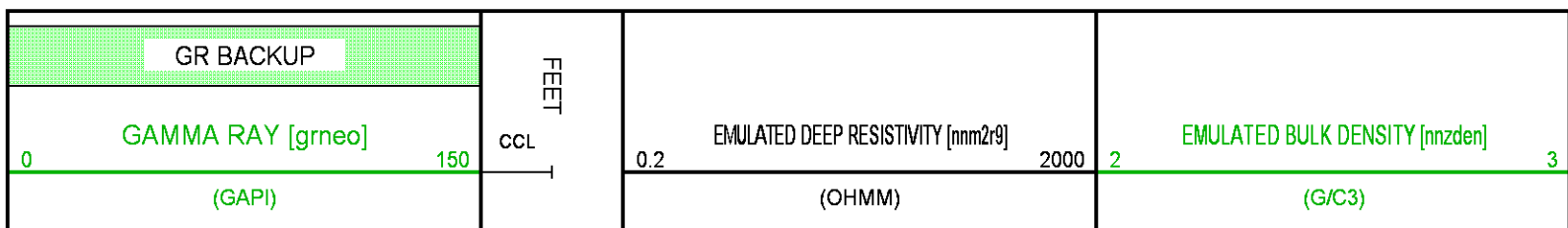




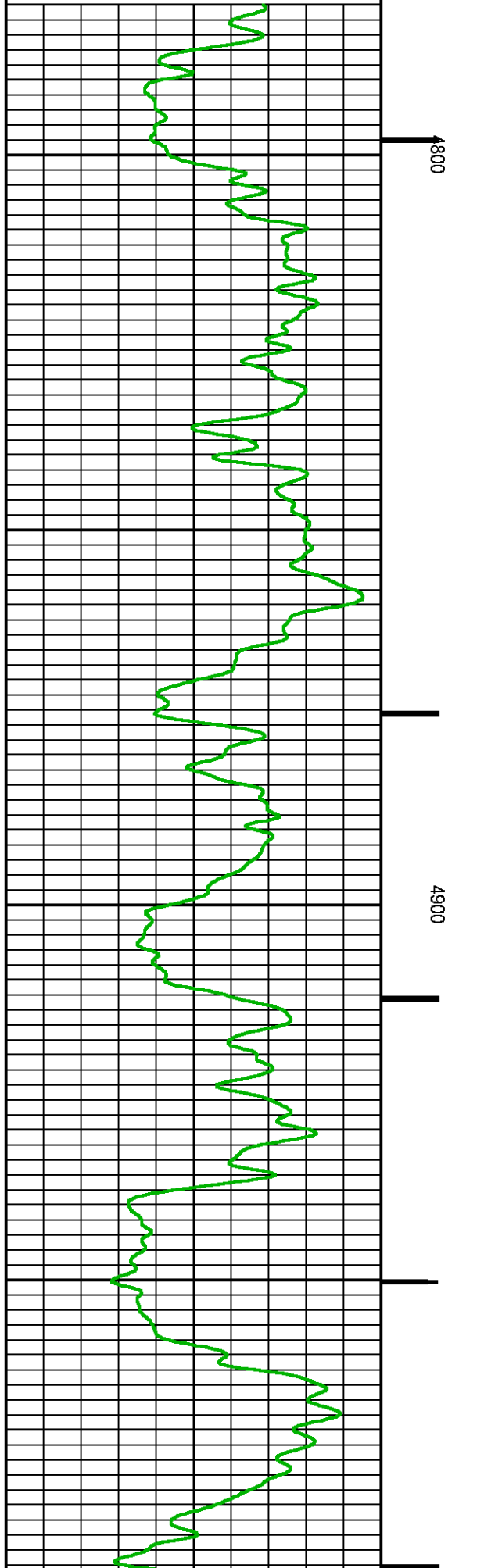
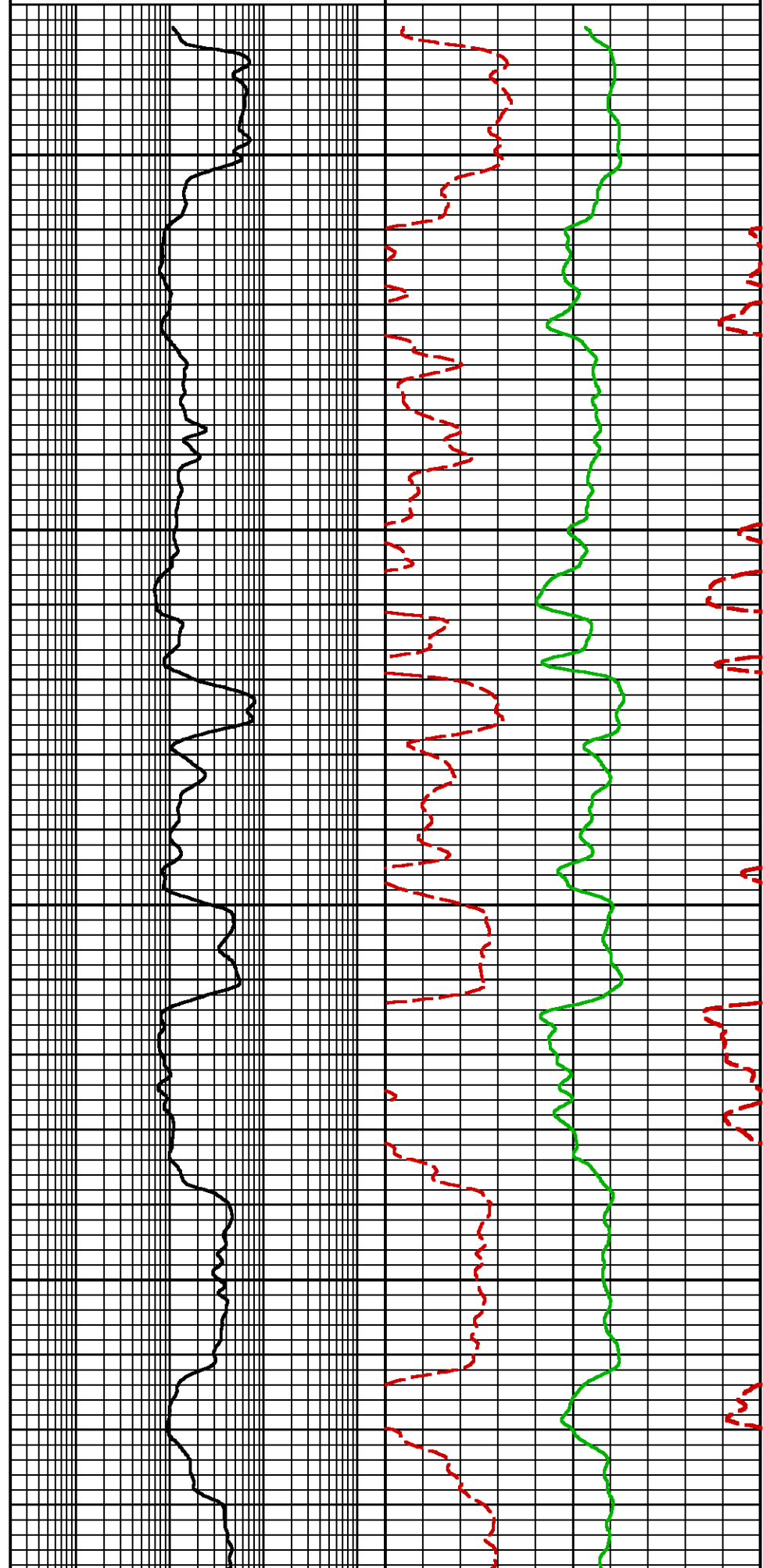


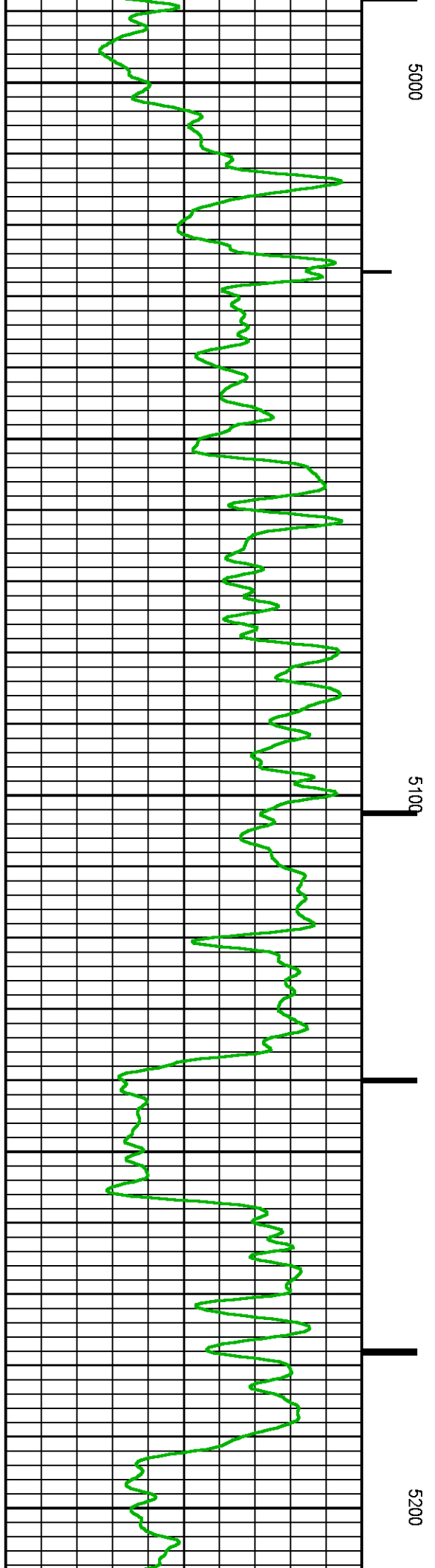
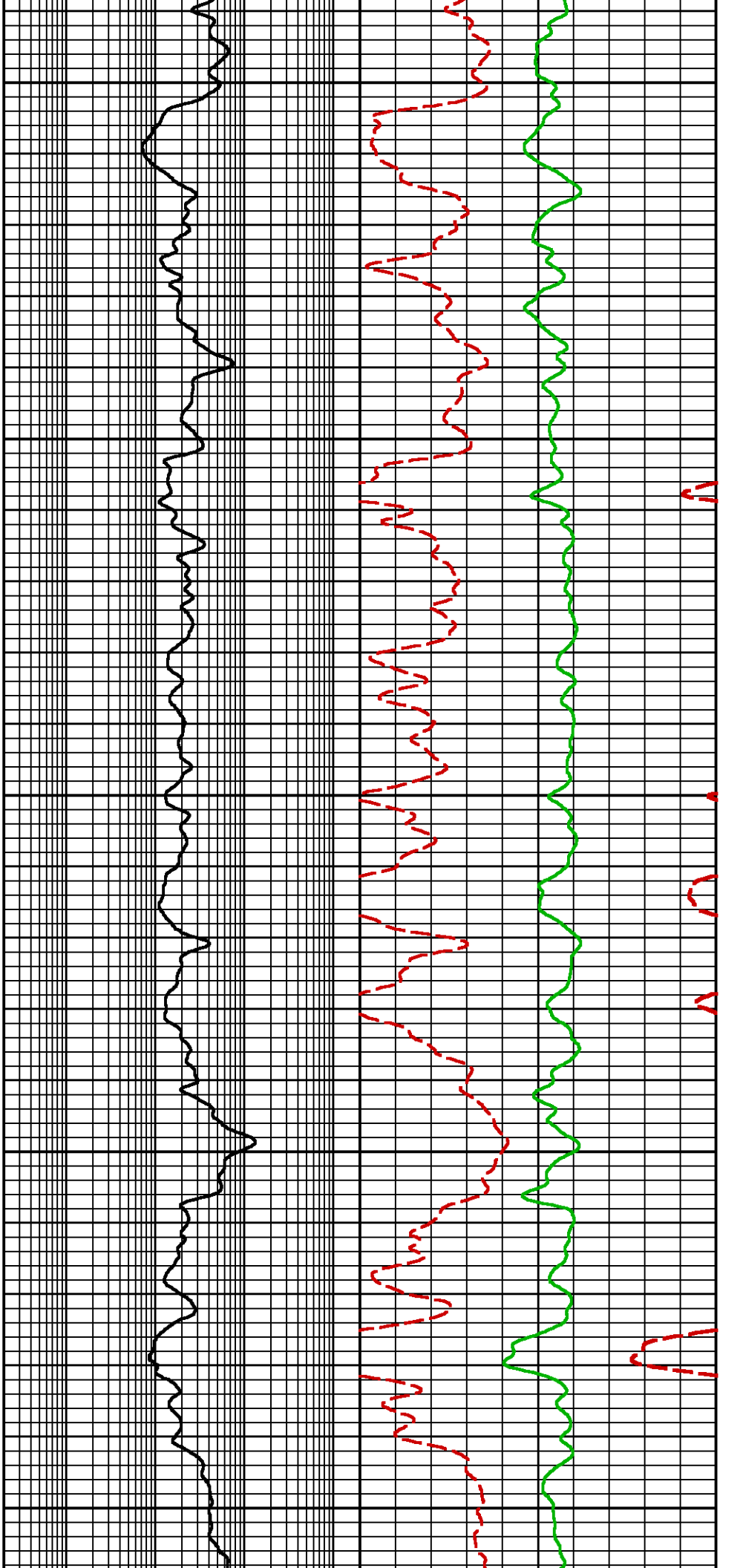
NEO RESULTS FOR BRUTON 30-15W (MAIN)

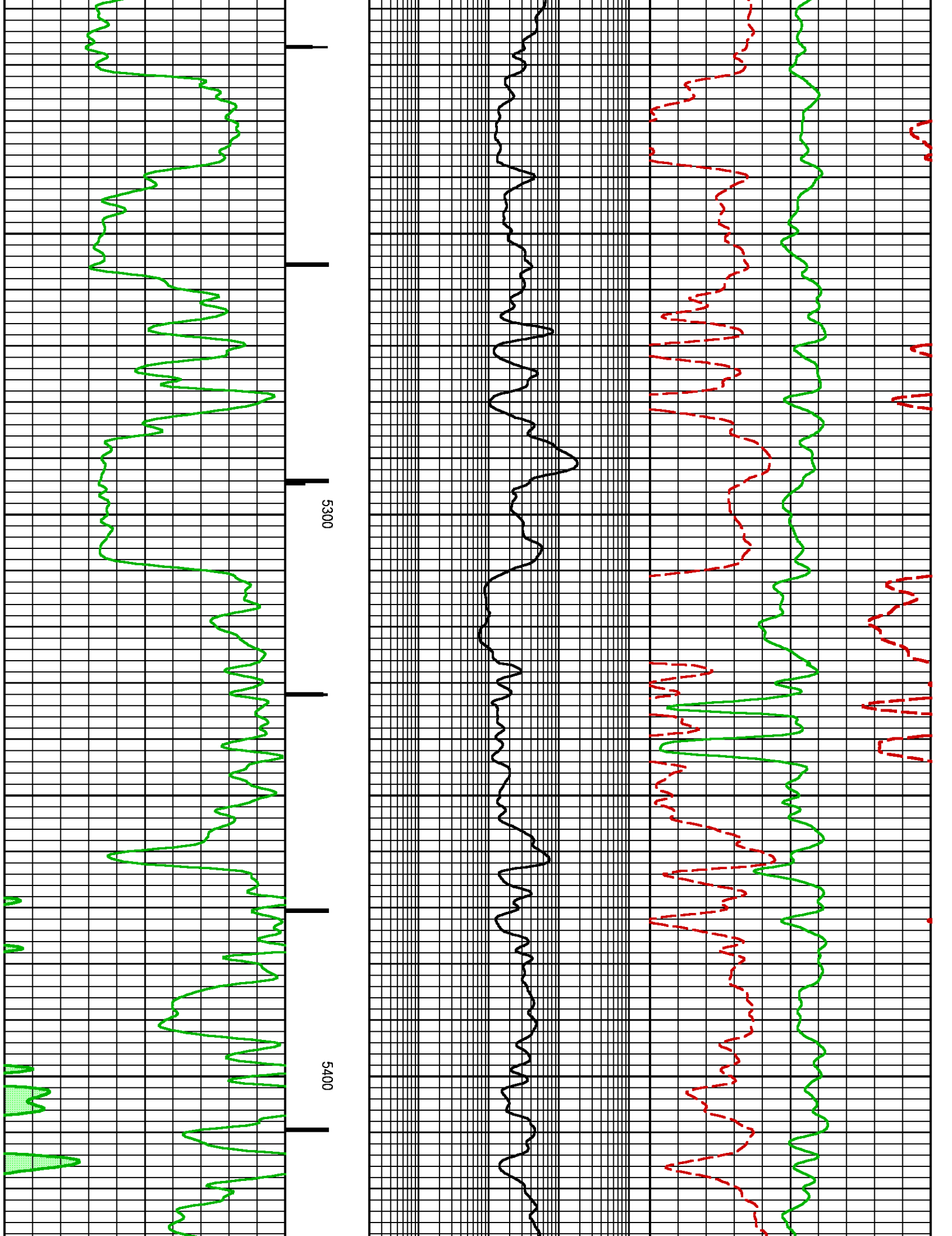
Project : NA
User : ellskima
Presentation : BHI3BKZH12:C:\Ape_Projects\laramie_bruton_30_16w\NEO_PRESENTATION_LARAMIE_MAIN.pdf [5"/100' Scale]
Plot Interval : 4780 - 8002 Feet
Data File 1 : F1 : BHI3BKZH12:C:\Ape_Projects\laramie_bruton_30_16w\Merged_Set_Final.xtf
Created On : N/A
Company : LARAMIE ENERGY LLC
Well : BRUTON 30-16W
Field : VEGA
File Interval : 2700 - 8002 Feet
OCT : NA

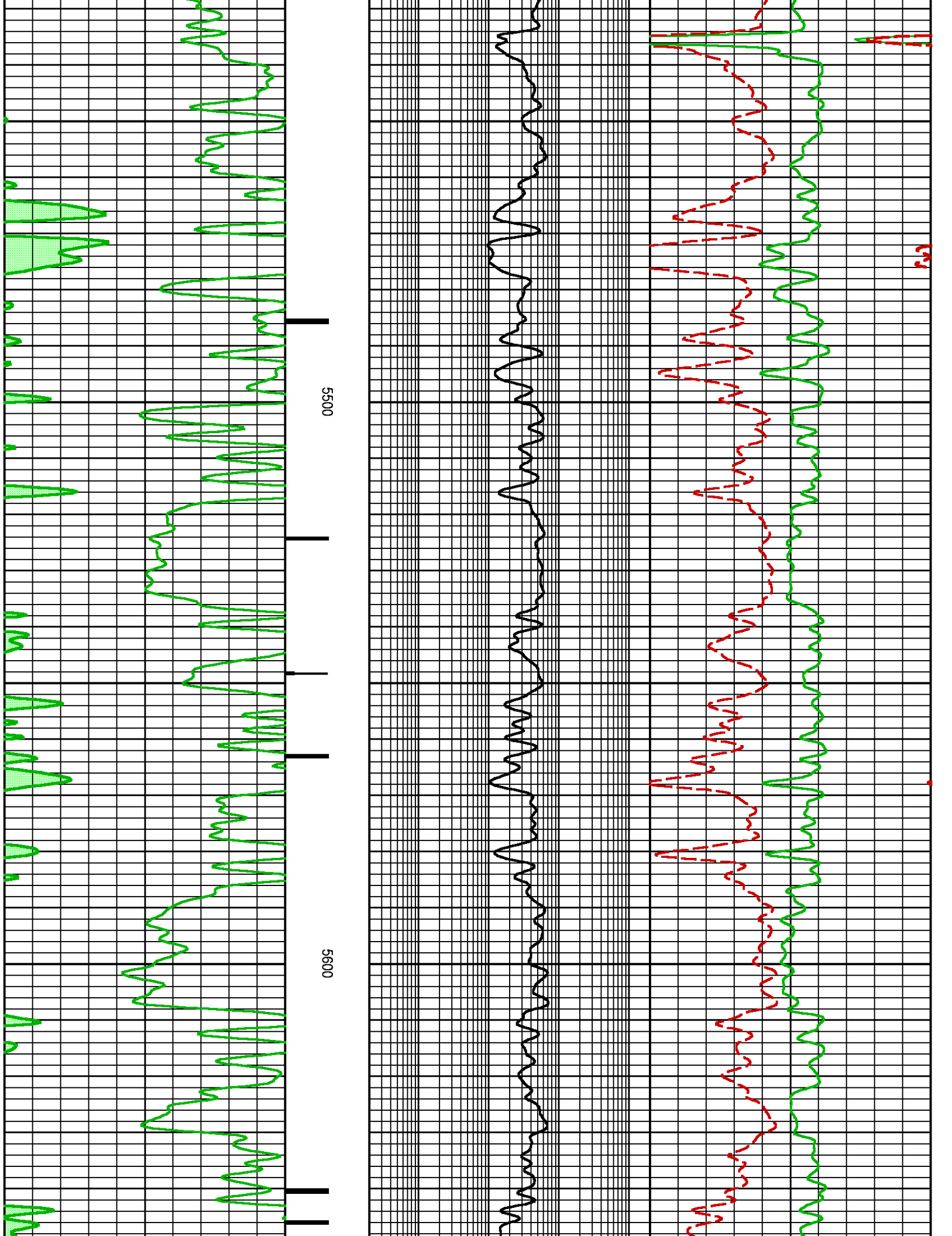


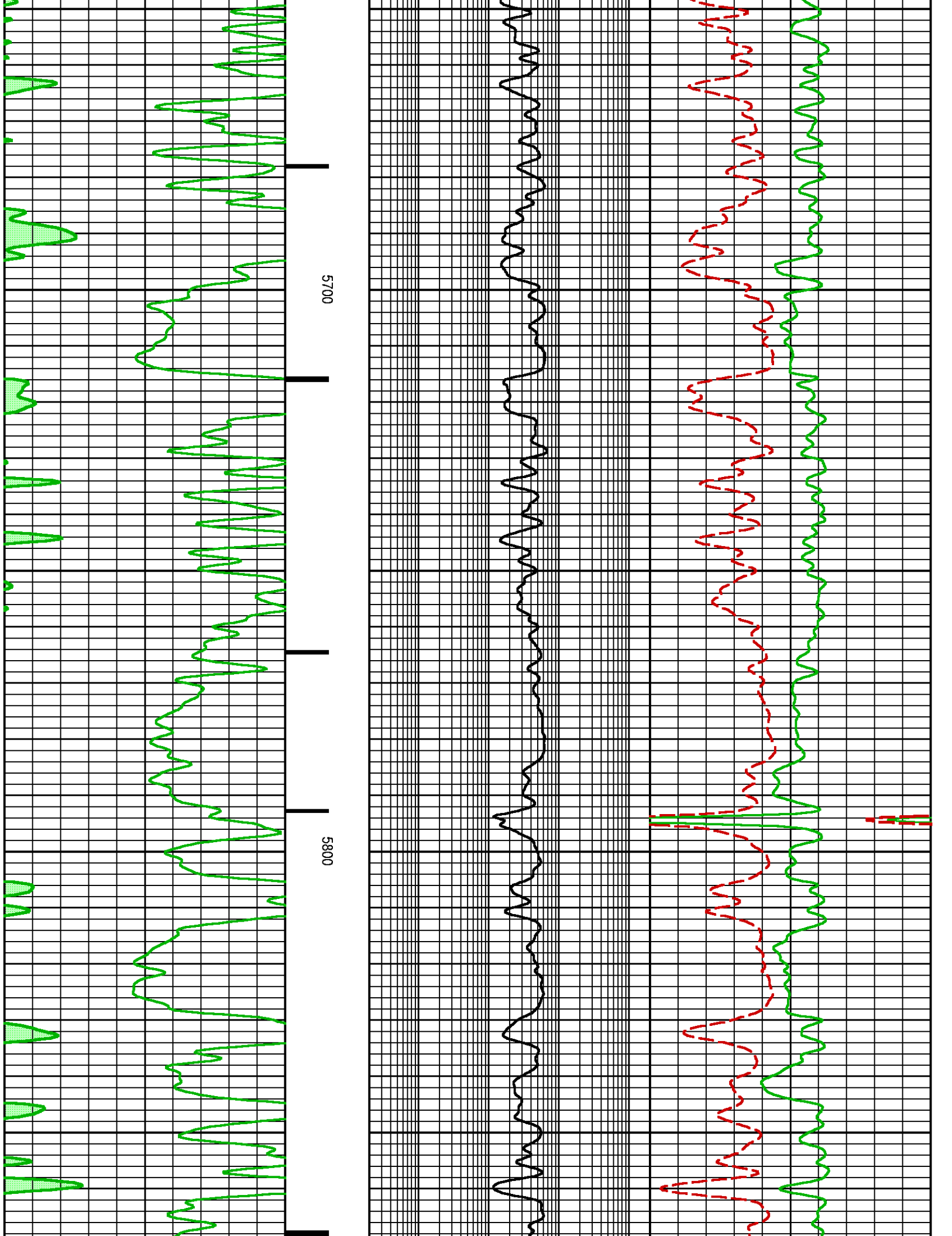
EMULATED NEUTRON POROSITY [nnncnl]
(FRAC)
0.3 -0.1

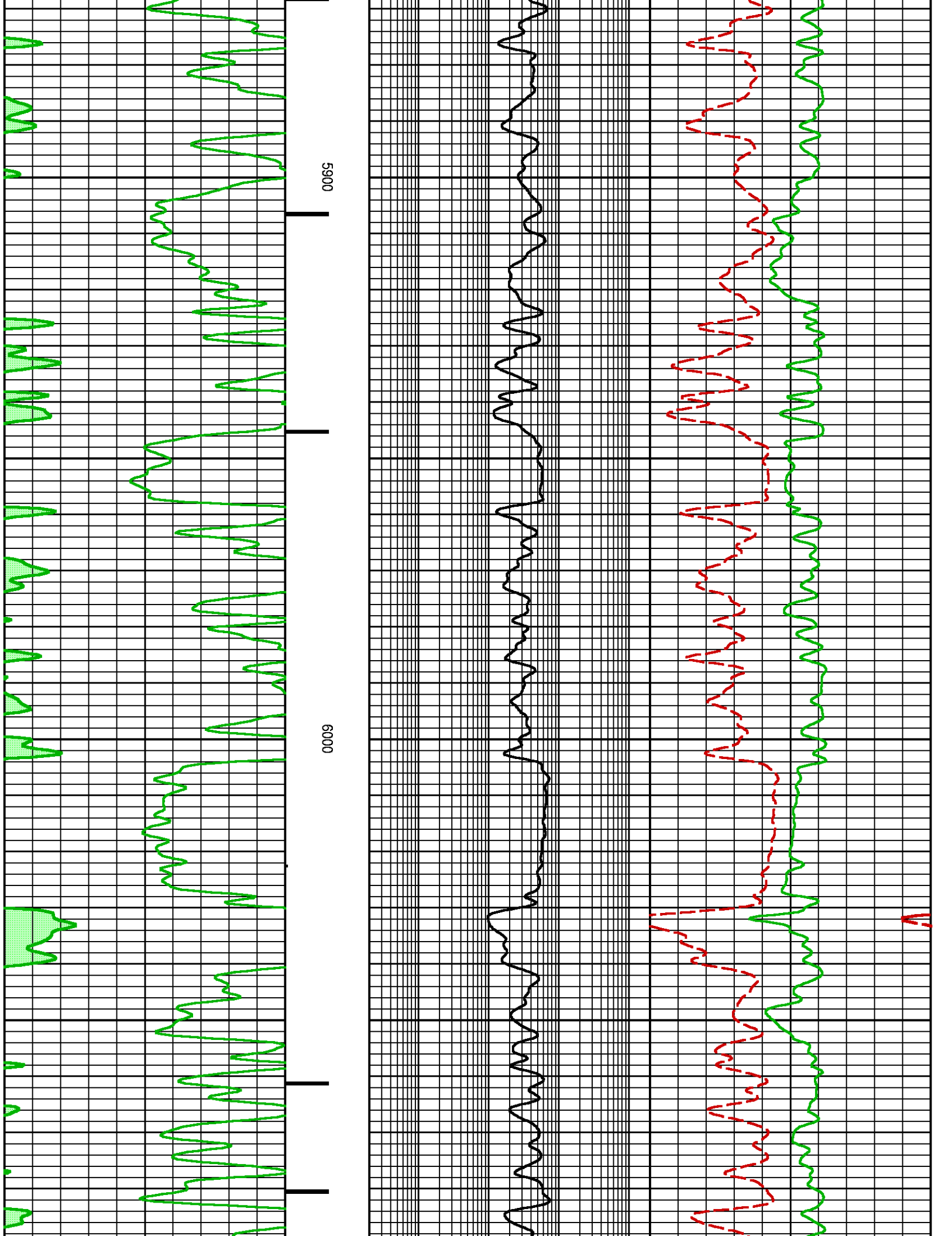


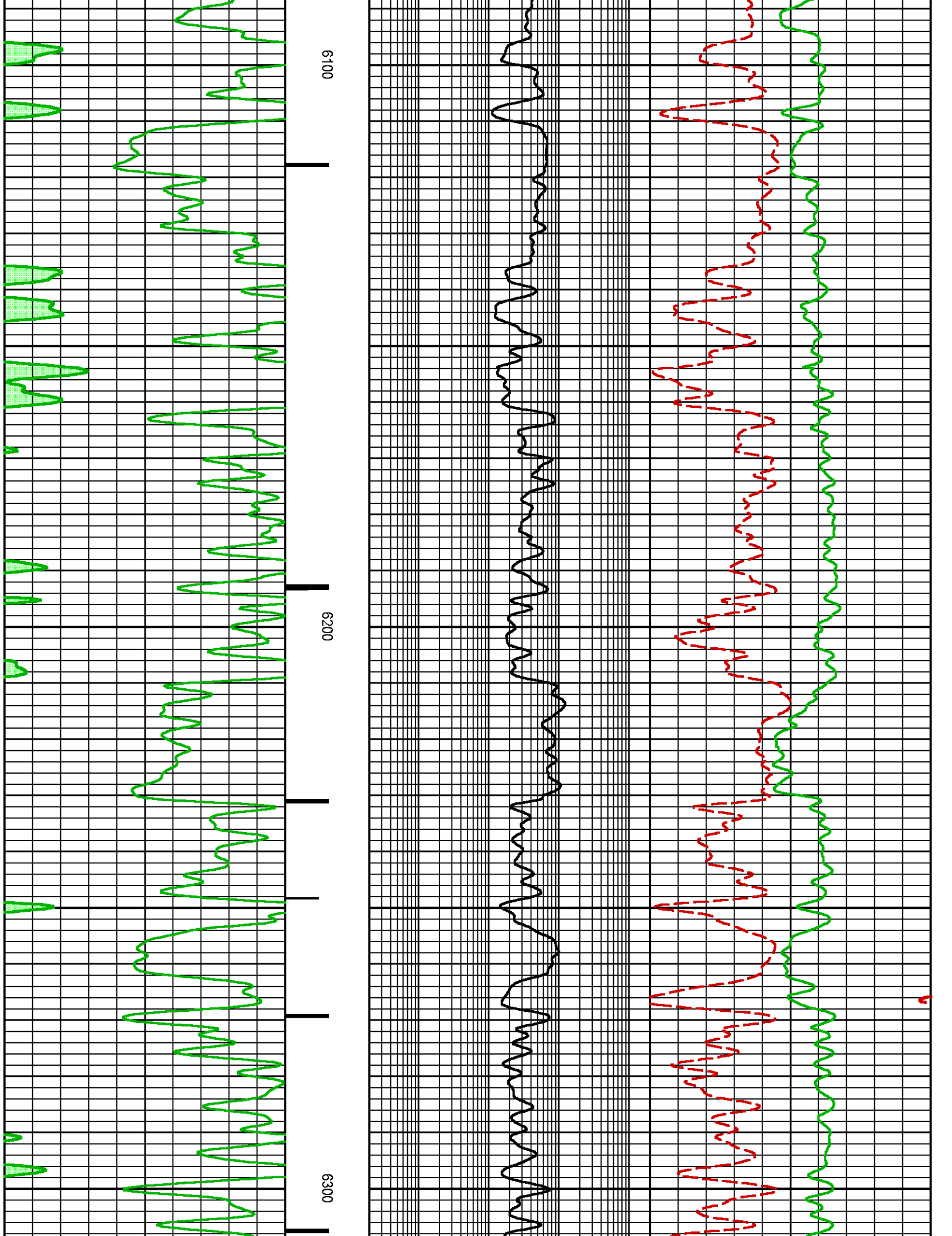


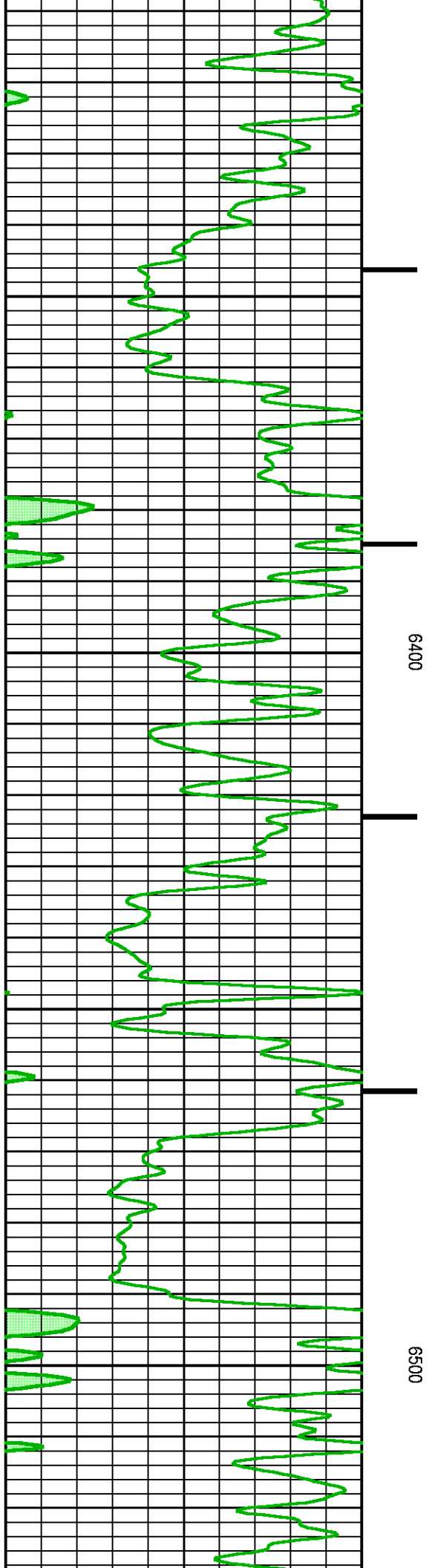
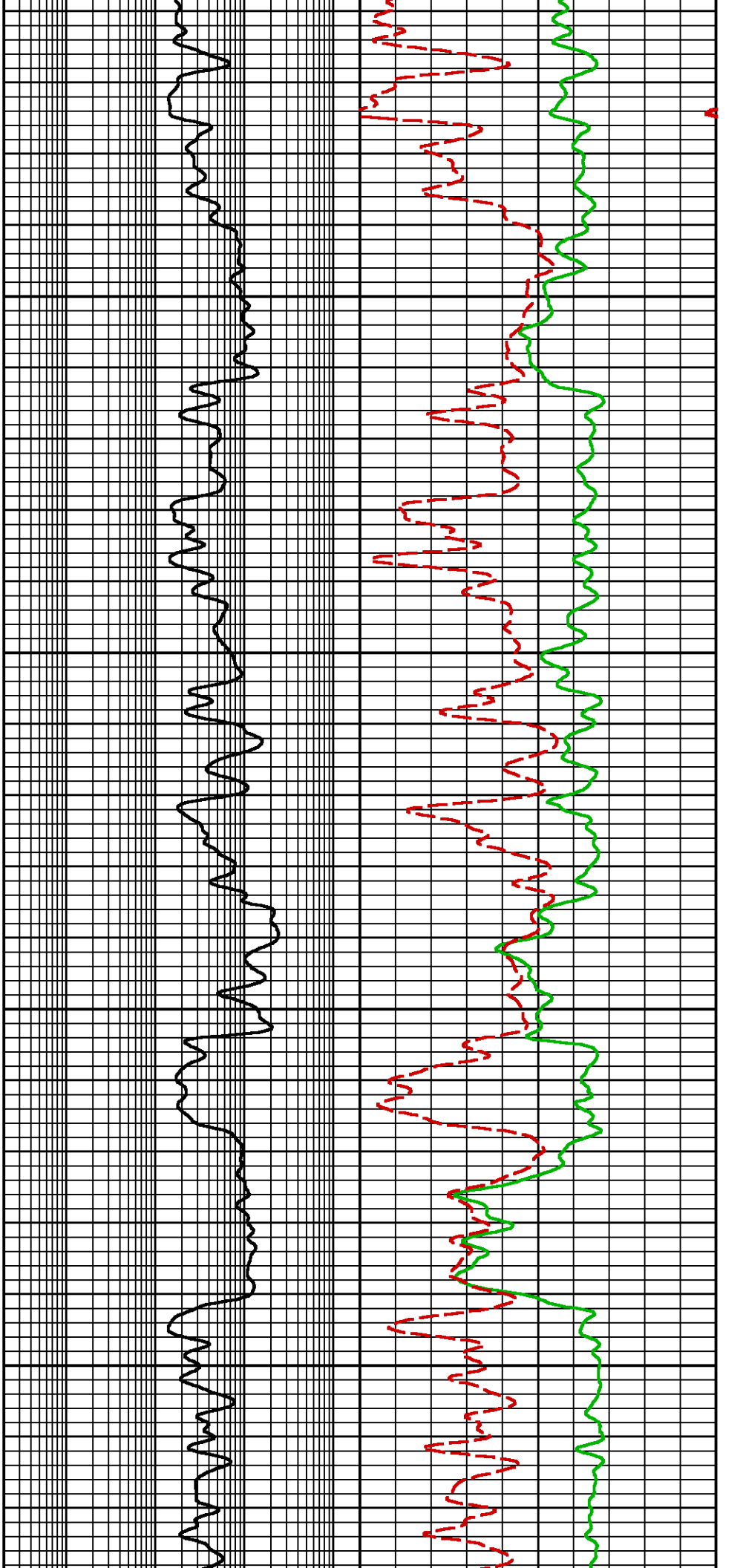


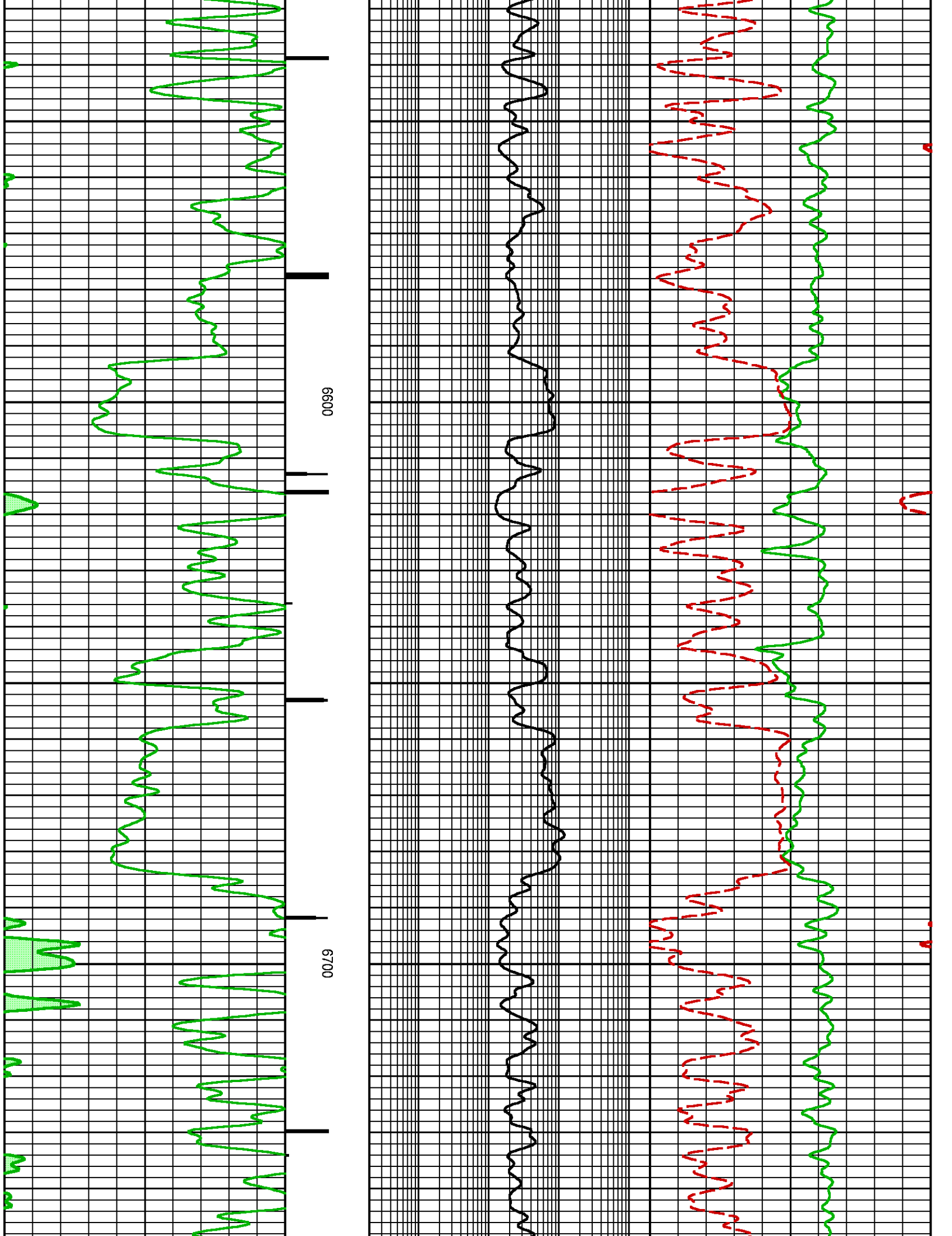


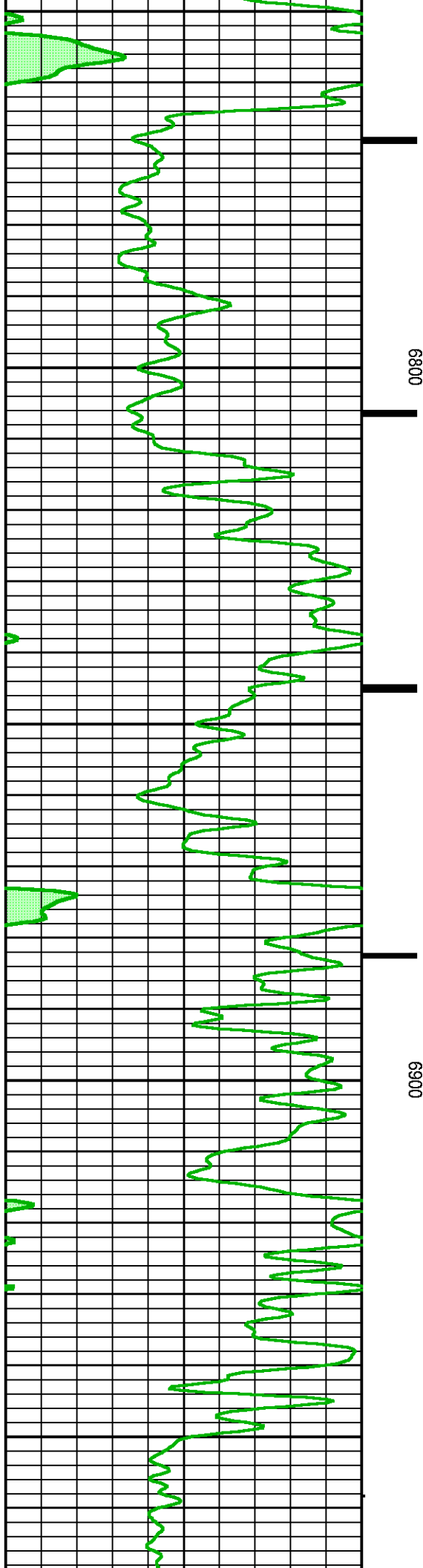






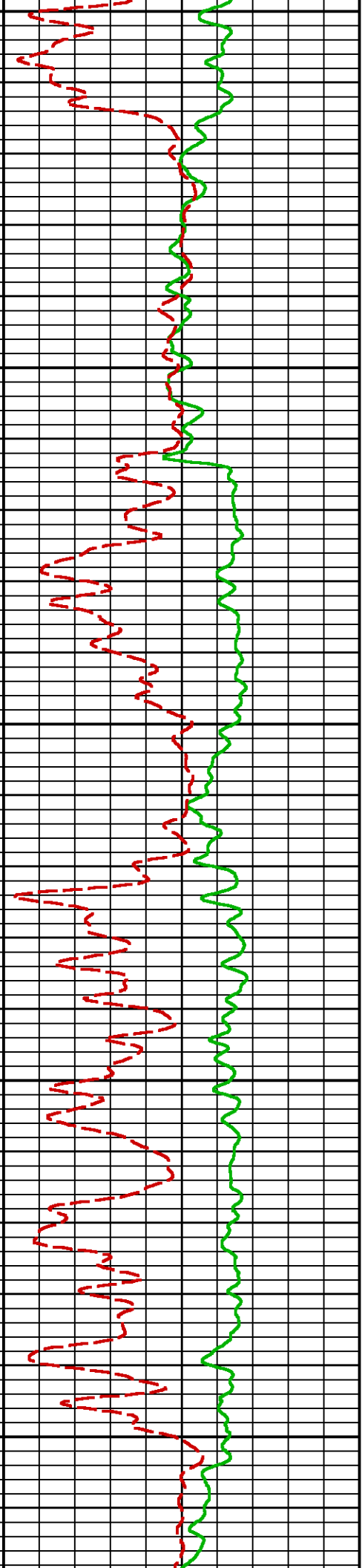
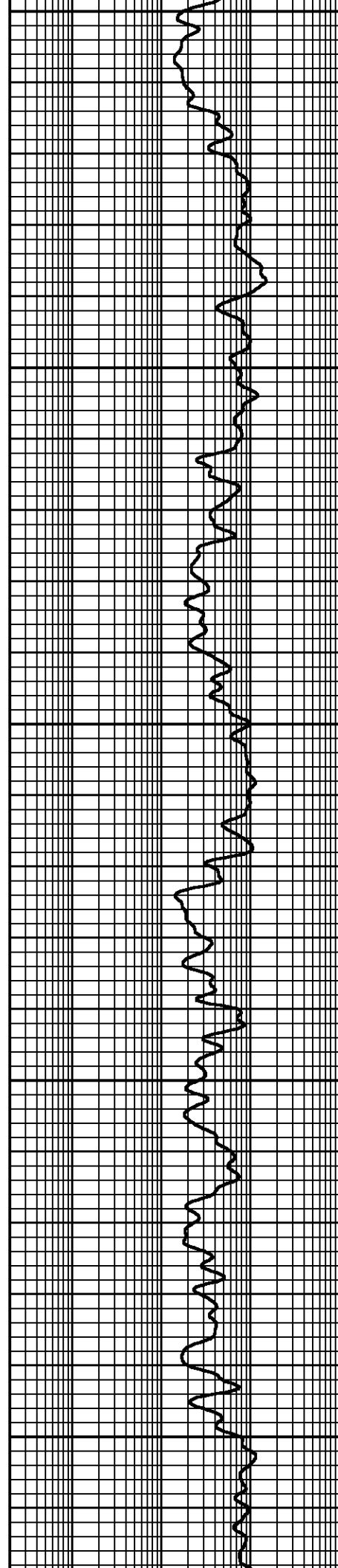


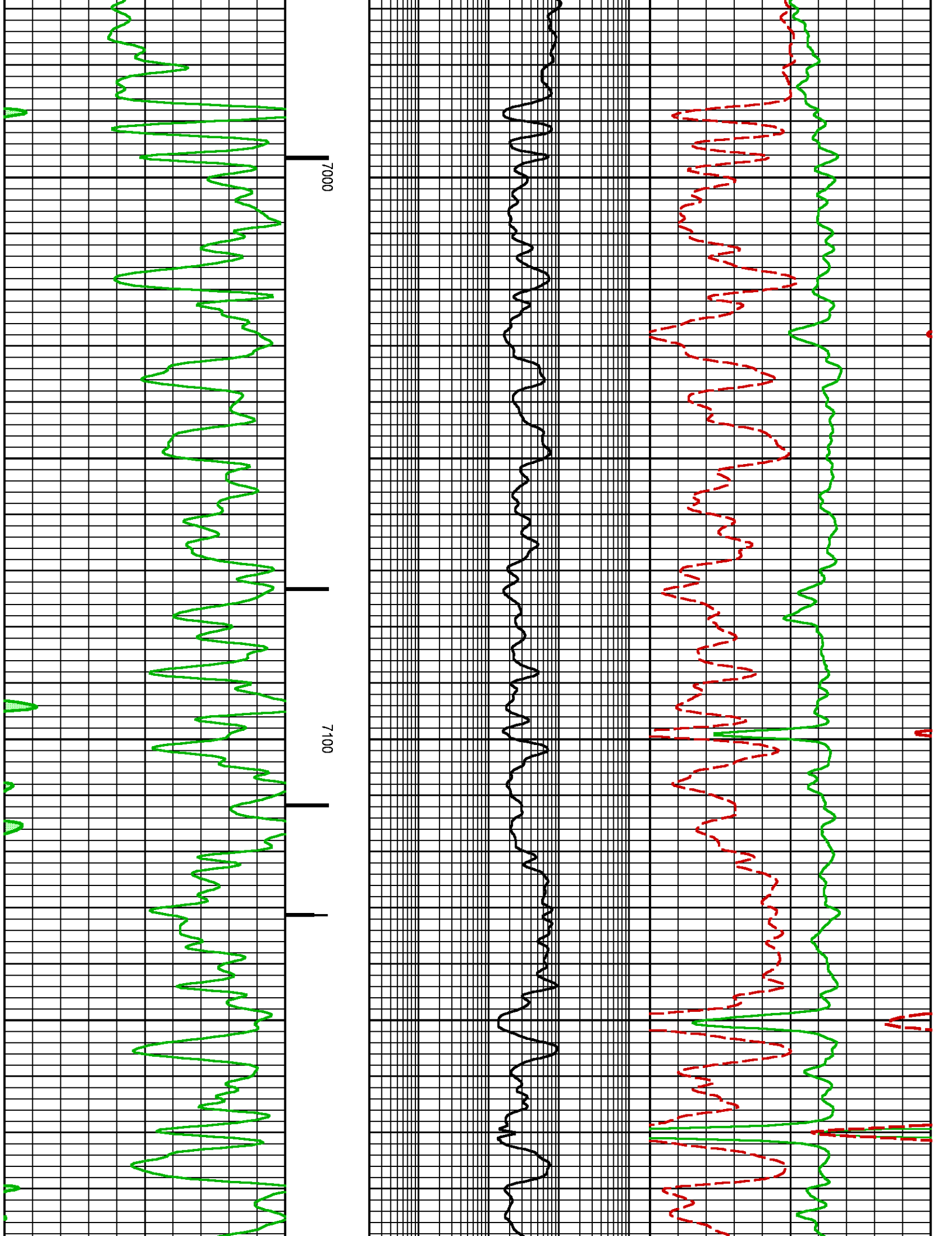


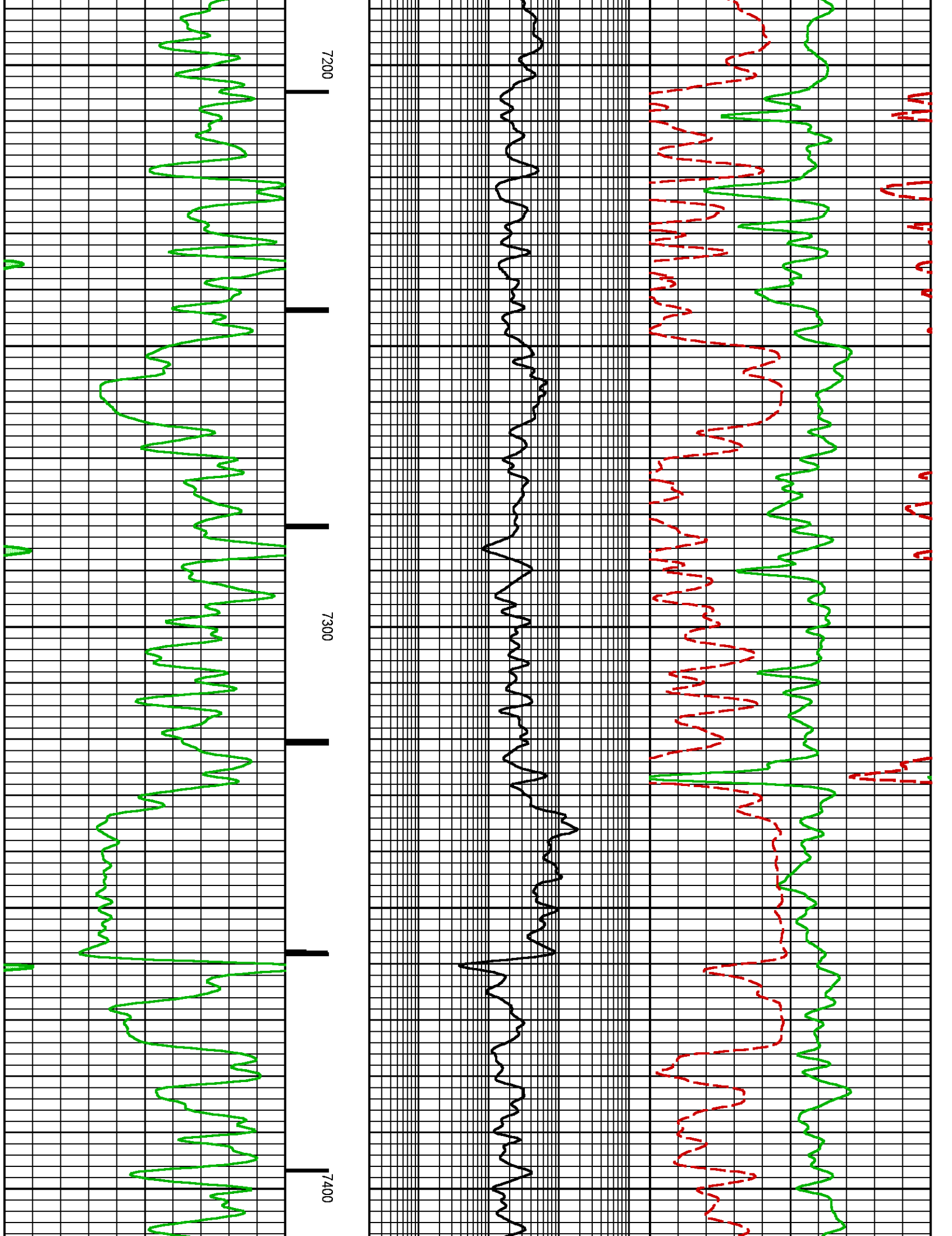


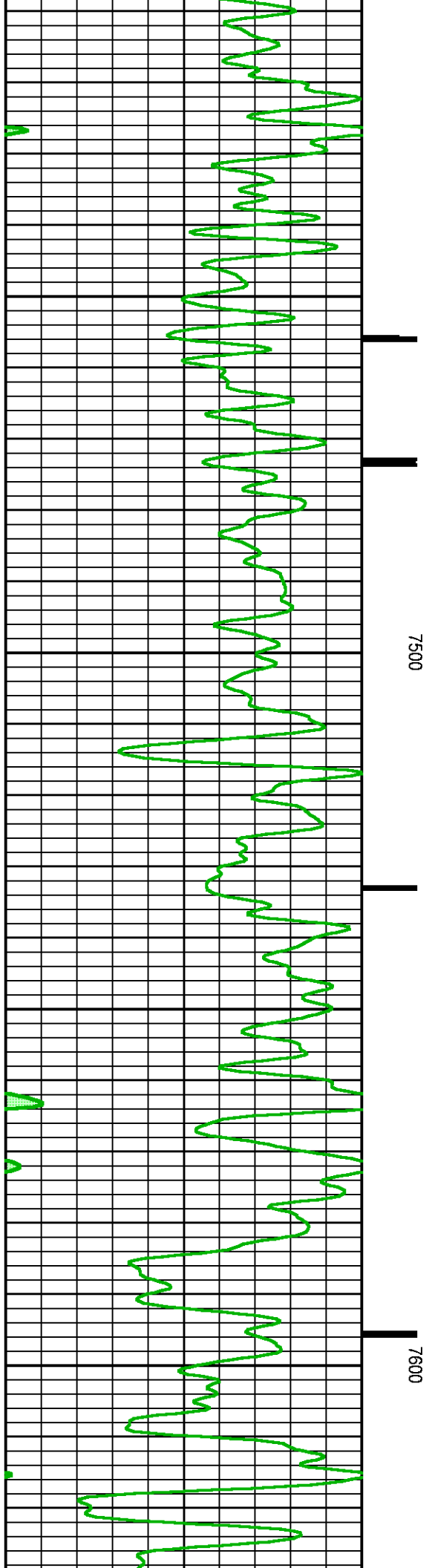
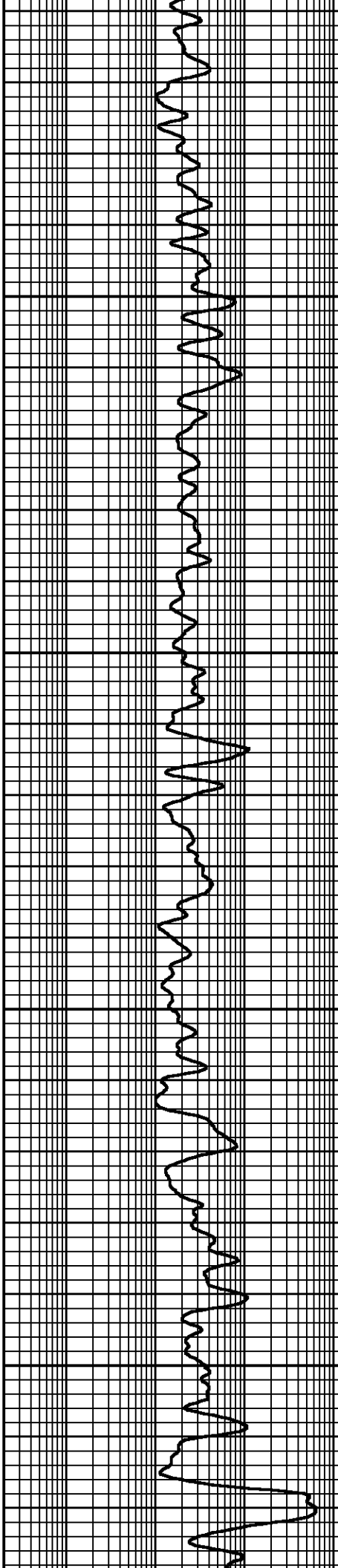
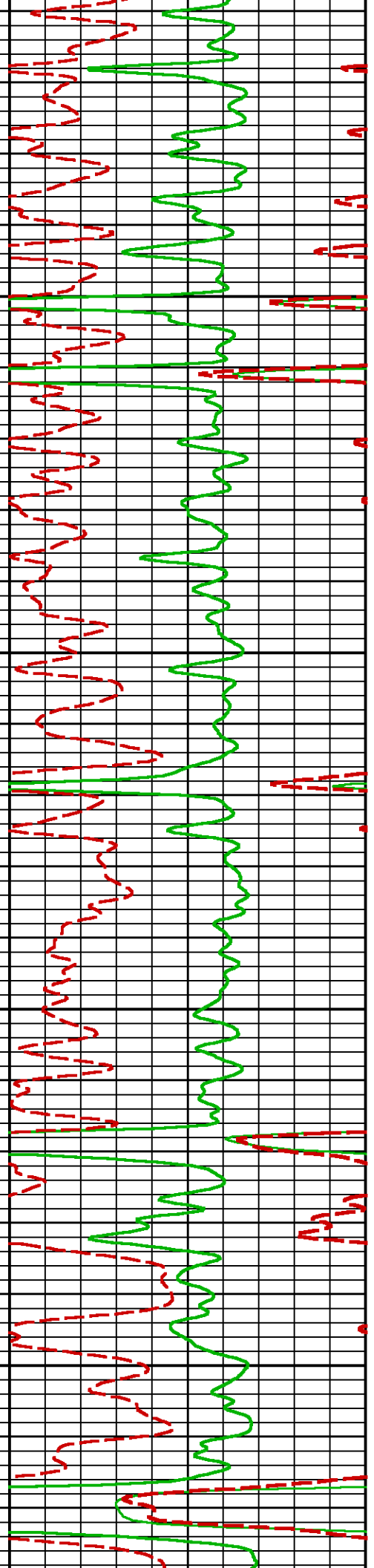
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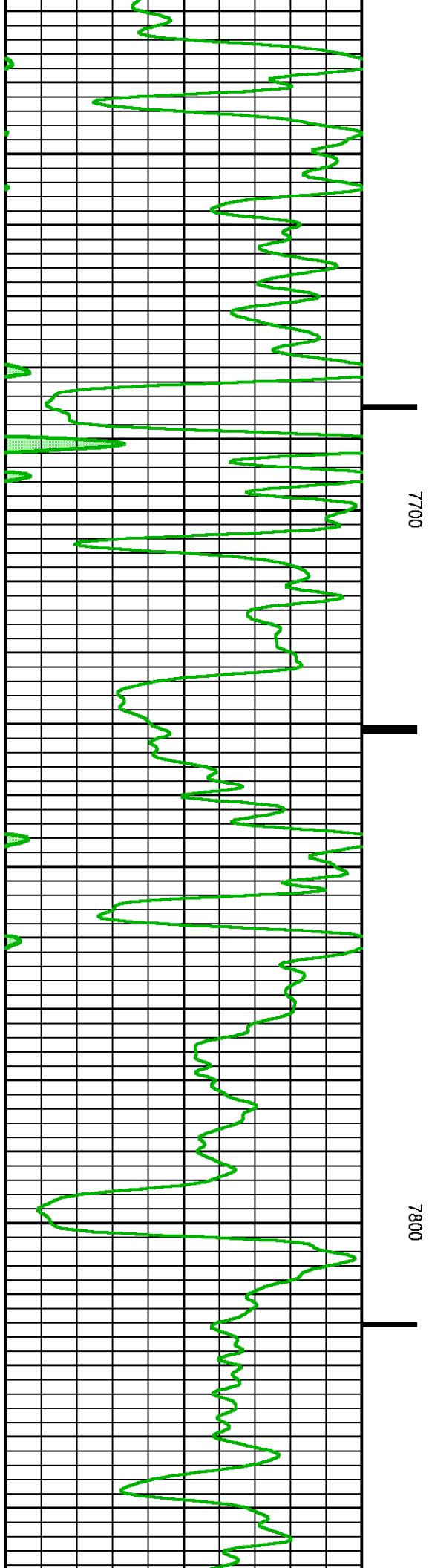
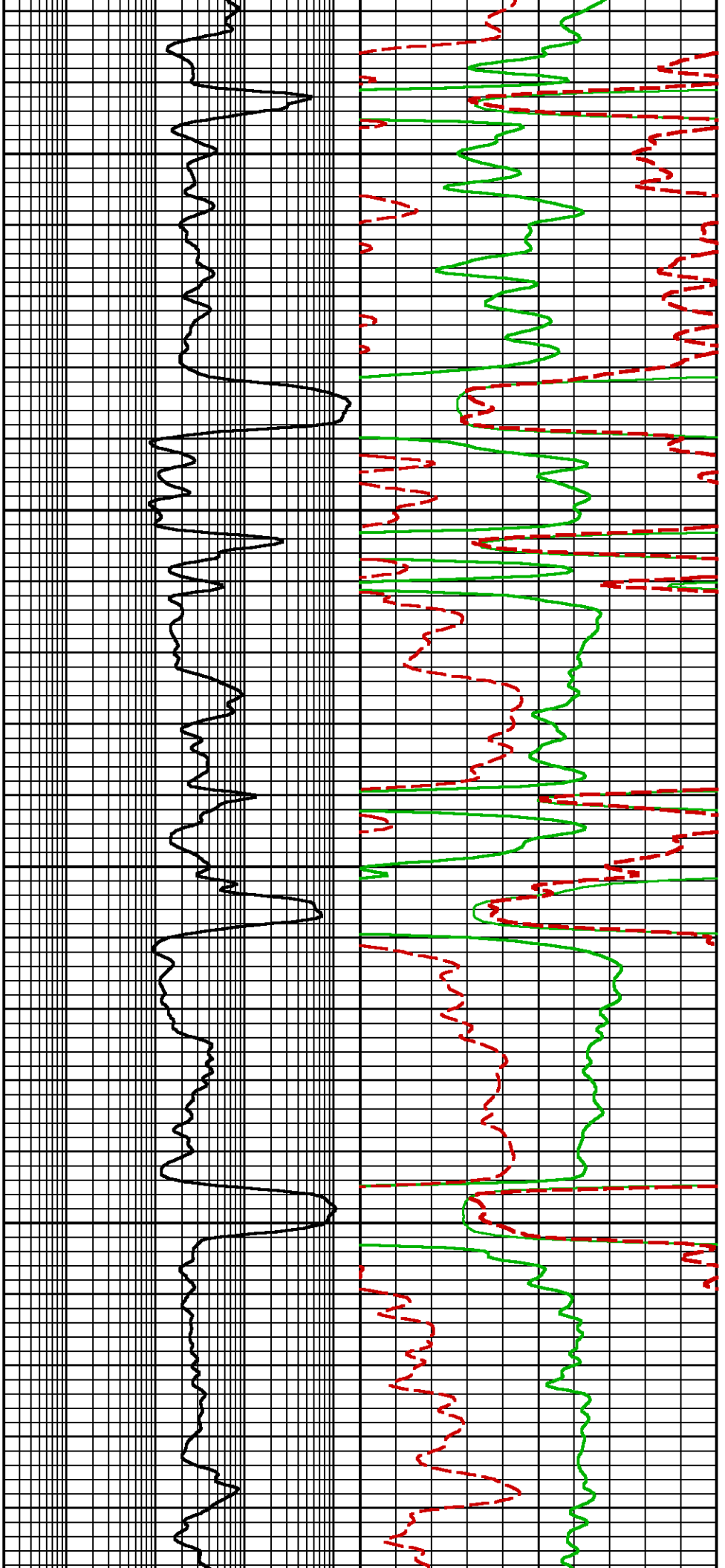
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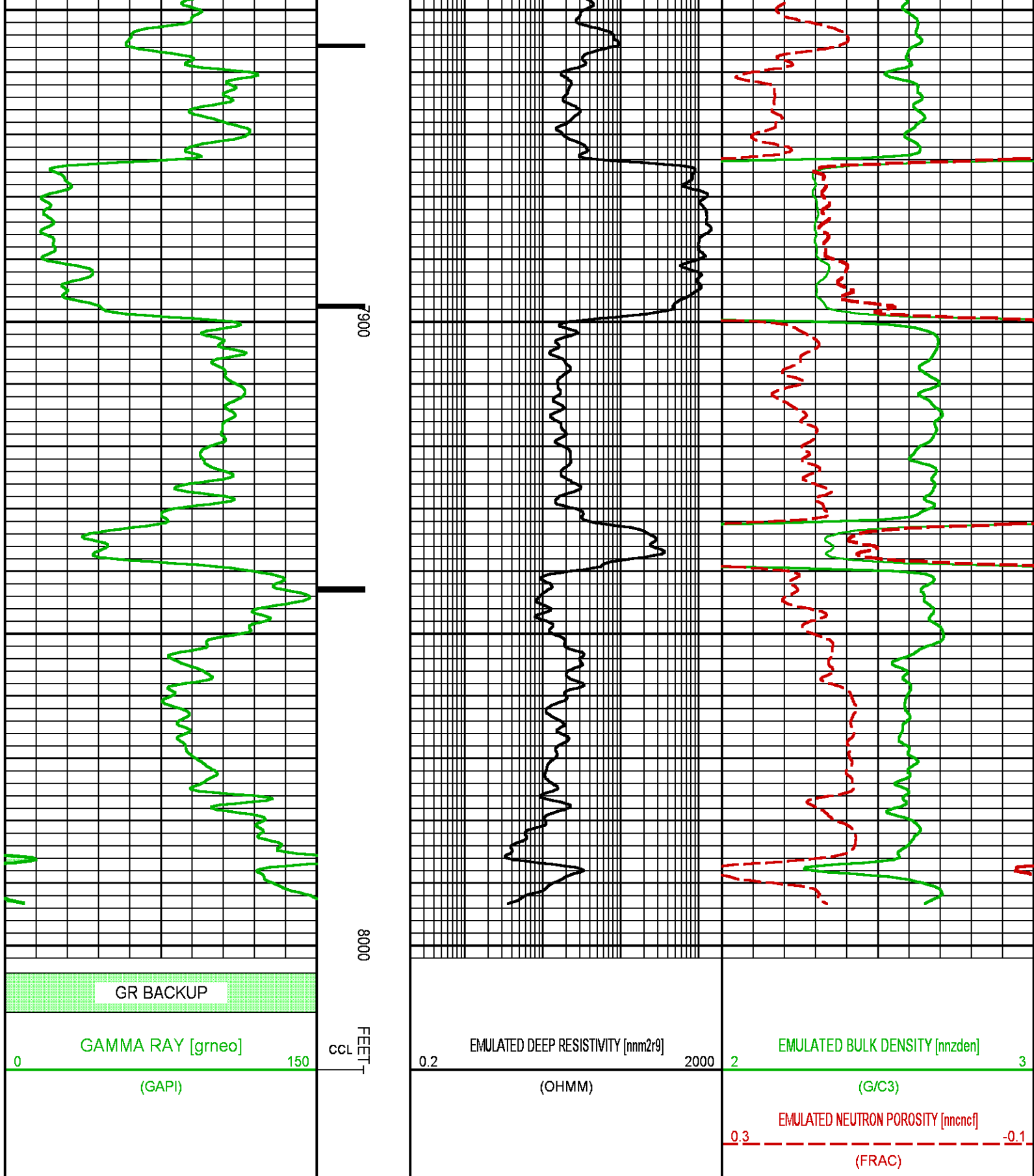












COMPANY
WELL
FIELD
COUNTY

LARAMIE ENERGY
BRUTON 30-16W
VEGA
MESA

STATE COLORADO

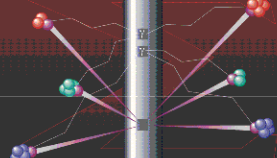
FILE NO:

API NO:

05-077-10472-0000

LOCATION:

ELEVATIONS:



LOCATION:

SEE REMARKS

ELEVATIONS:

KB 7673 FT

DF

GL 7643 FT

SEC 30 TWP 9S RGE 93W

DATE 15-FEB-2018