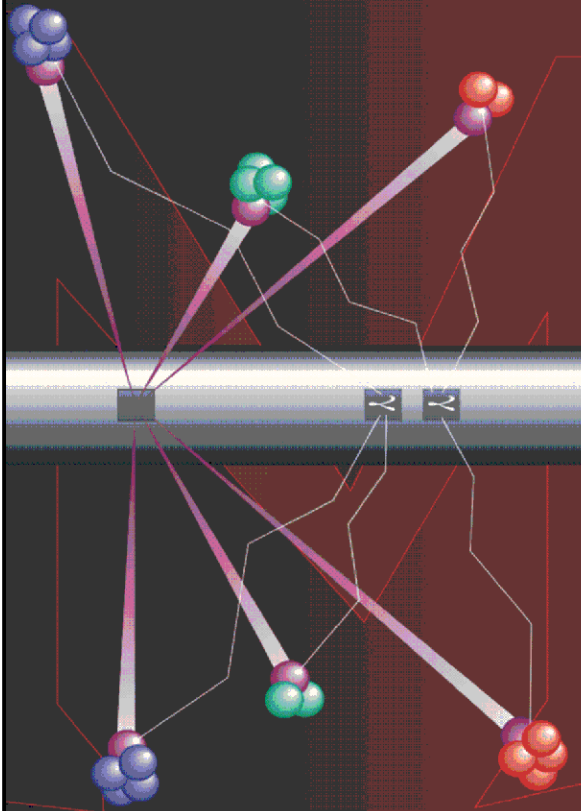


Pulsed Neutron Formation Evaluation



NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY

WELL NICHOLS 0994-24-05W

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS SECTION

SEC 24 TWP 9S RGE 94W

ELEVATIONS:

KB 7161 FT DF 7160 FT GL 7137 FT

DATE 8-FEB-2018 ECC 30150-01

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 GEOSCIENCE</u>	LOG ANALYST: <u>A. KUKHARCHUK</u>	DATE: <u>08-FEB-2018</u>
FIELD DATA	LOCATION: <u>GRAND JCT.</u>	ENGINEER: <u>M.MENTZER/US132018</u>	DATE: <u>25-JAN-2018</u>

FROM	TO								
<u>2243 FT</u>	<u>2864 FT</u>								
<u>4102 FT</u>	<u>7374 FT</u>								

REMARKS

LOCATION:
SHL: 39.264531 N, 107.830722 W
BHL: 39.266392 N, 107.835341 W

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

NEO RESULTS FOR NICHOLS 0994 24 05W(G-SAND)

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

Plotted: Thu Feb 08 13:11:10 2018

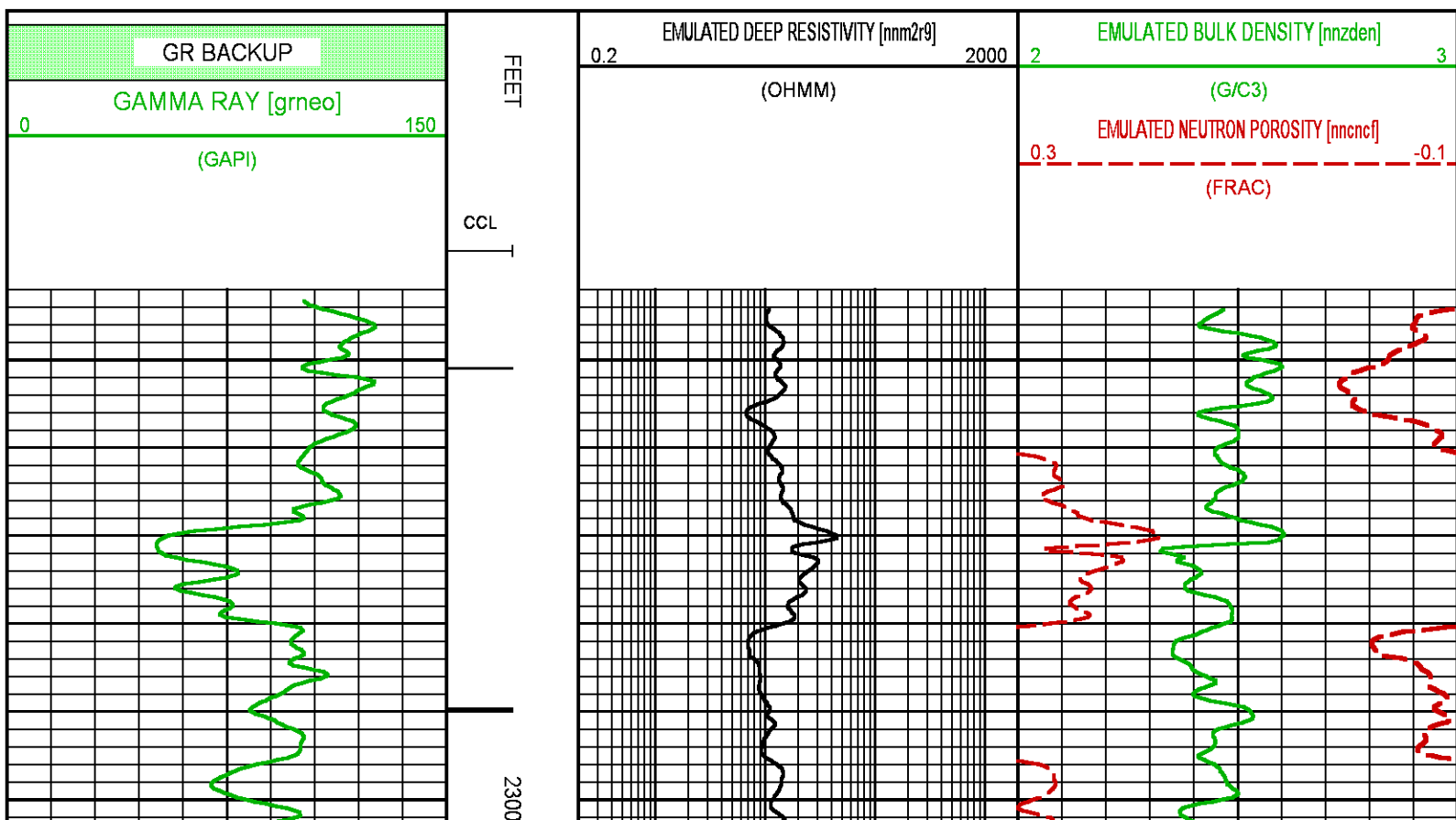
CURVE MEASURE POINT OFFSET

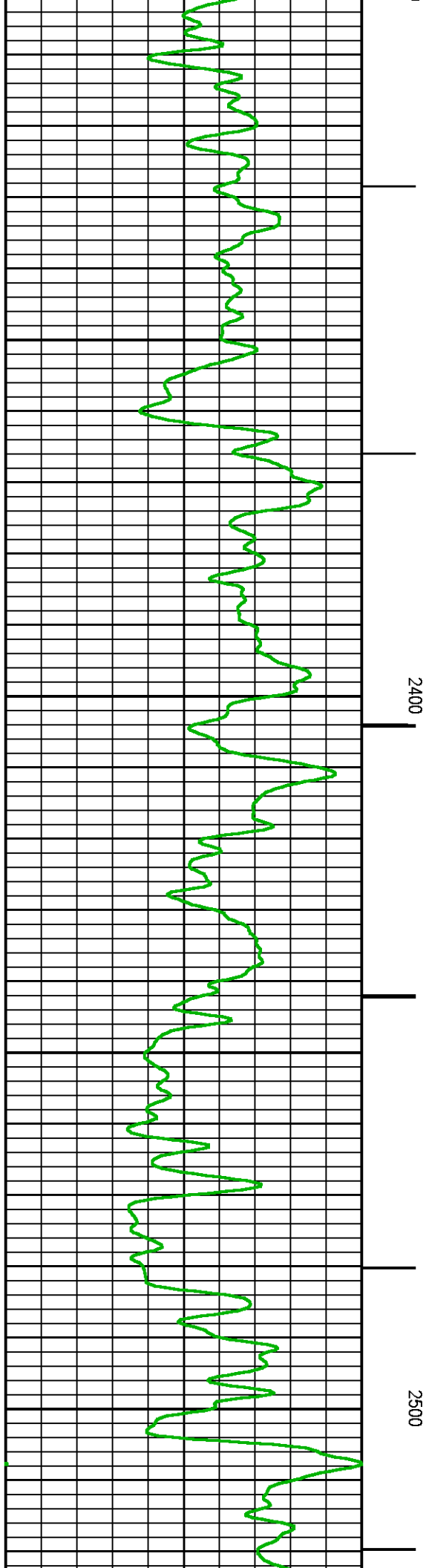
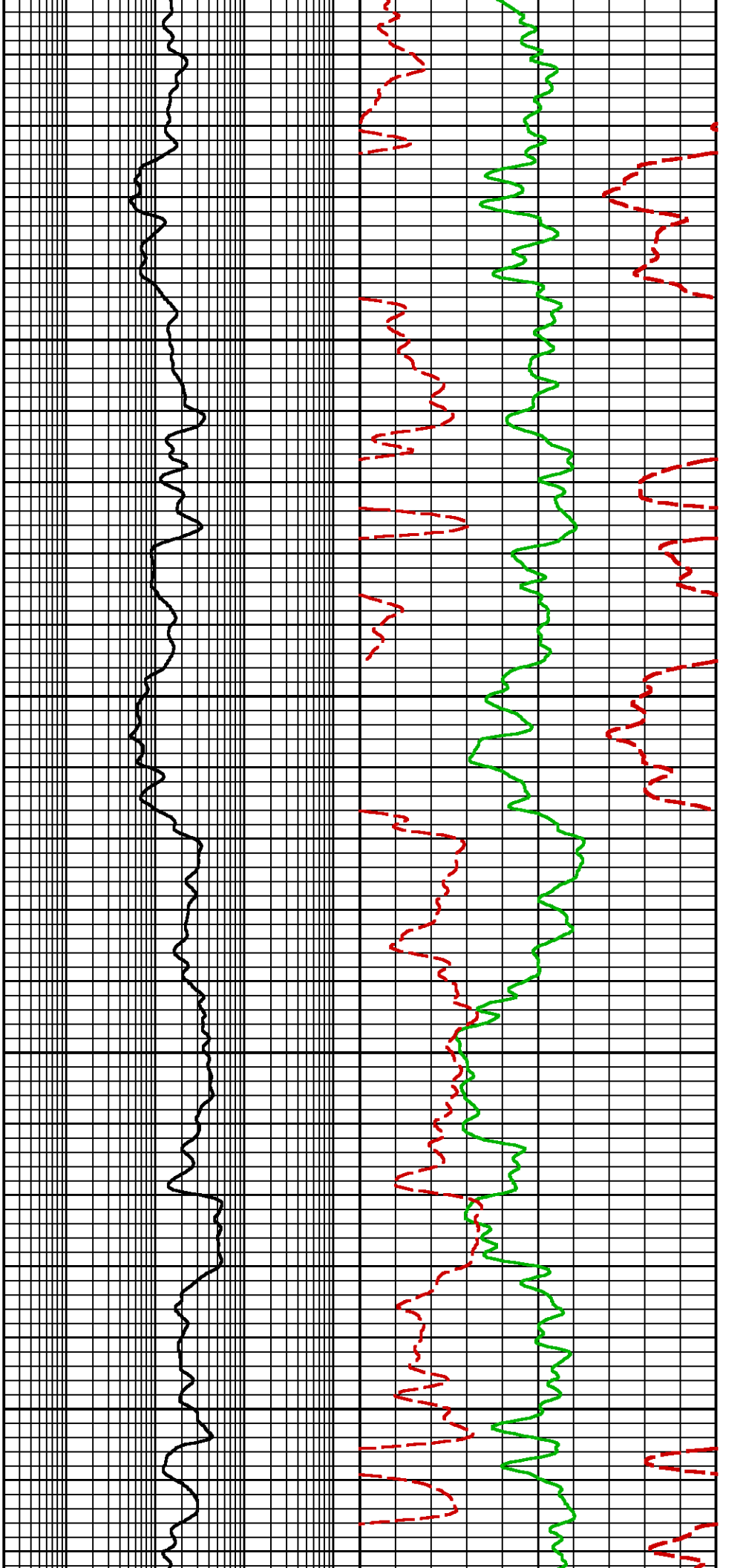
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNCf	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

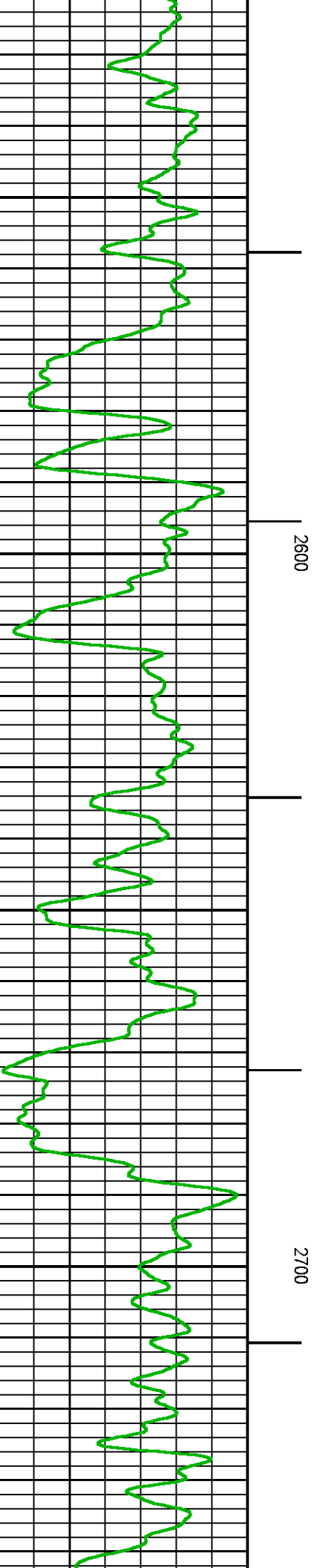
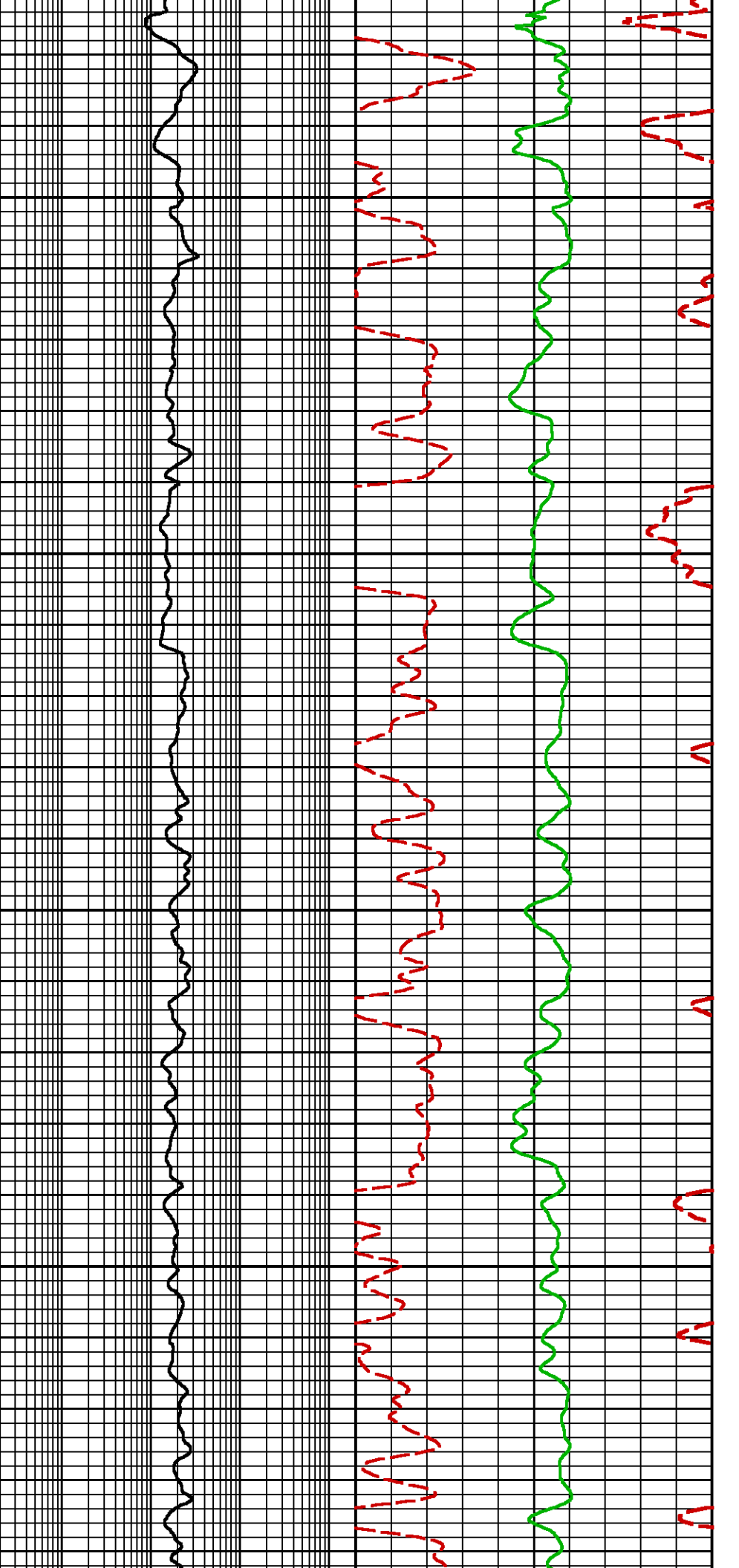
Project : NA
User : kukhaliv
Presentation : BHIFRGRGC2:D:\Ape_Projects\Laramie_NICHOLS_0994_24_05W\
NEO_PRESENTATION_LARAMIE_G-Sand.fvpdf [5"/100" Scale]
Plot Interval : 2243.25 - 2864 Feet

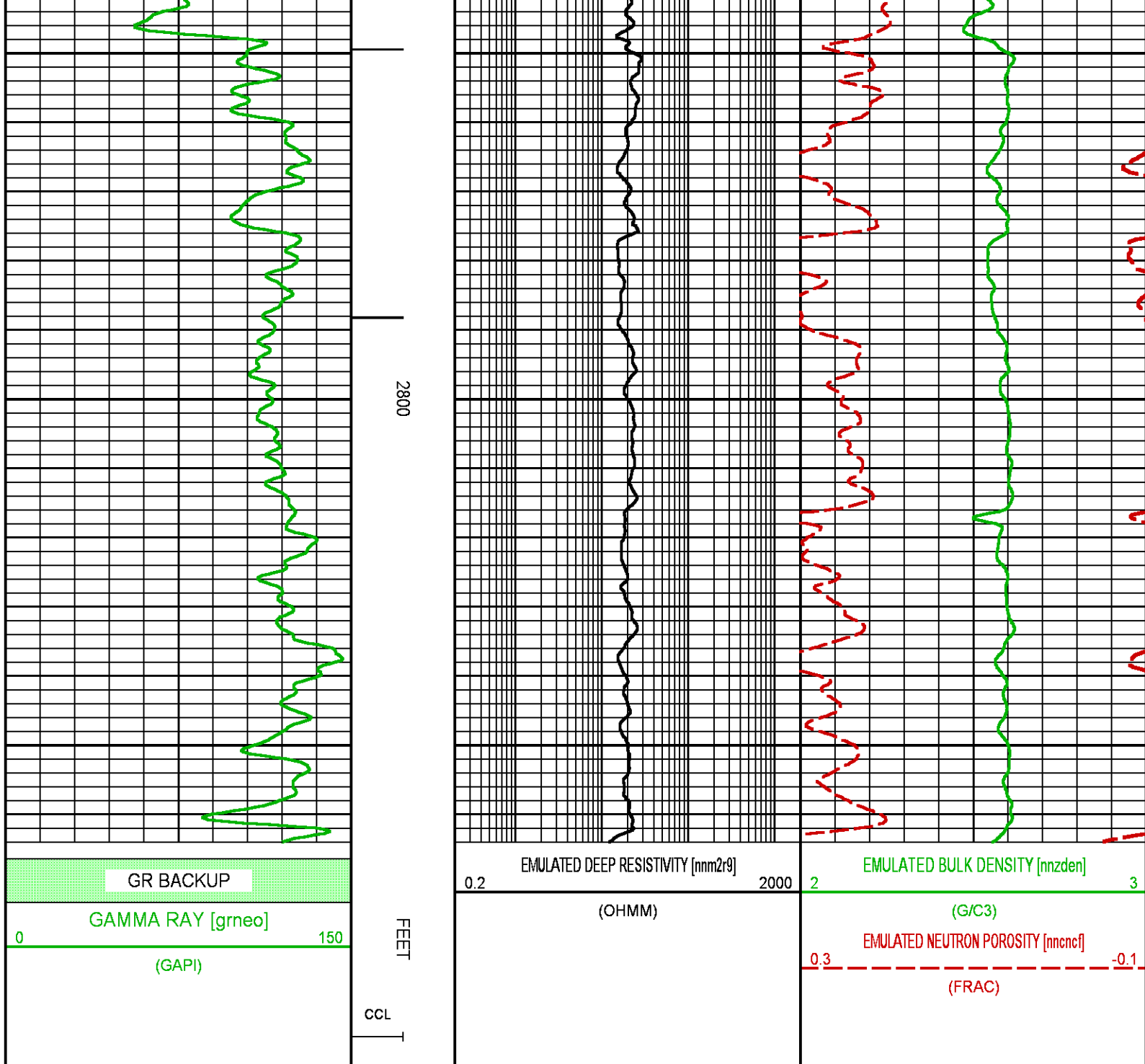
Data File 1 : F1 : BHIFRGRGC2:D:\Ape_Projects\Laramie_NICHOLS_0994_24_05W\
NICHOLS_0994-24-05W_Merged_Set_Final.xtf

Created On : N/A
Company : LARAMIE ENERGY LLC
Well : NICHOLS 0994-24-05W
Field : VEGA
File Interval : 2243.25 - 7374.25 Feet
OCT : NA









NEO RESULTS FOR NICHOLS 0994 24 05W (MAIN)

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

Plotted: Thu Feb 08 13:13:53 2018

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
-------	-------------	-------	-------------	-------	-------------	-------	-------------

CCL	0.00	NNNCF	0.00	NNZDEN	0.00		
-----	------	-------	------	--------	------	--	--

CCL	0.00	NNCNC	0.00	NNZDEN	0.00
GRNEO	0.00	NNM2R9	0.00		

Project : NA

User : kukhaliv

Presentation : BHIFRGRGC2:D:\Ape Projects\Laramie_NICHOLS_0994_24_05W
NEO PRESENTATION_LARAMIE_MAIN.fvpdf [5"/100' Scale]

Plot Interval : 4102 - 7374.25 Feet

Data File 1 : F1 : BHIFRGRGC2:D:\Ape Projects\Laramie_NICHOLS_0994_24_05W
NICHOLS_0994-24-05W_Merged_Set_Final.xtf

Created On : N/A

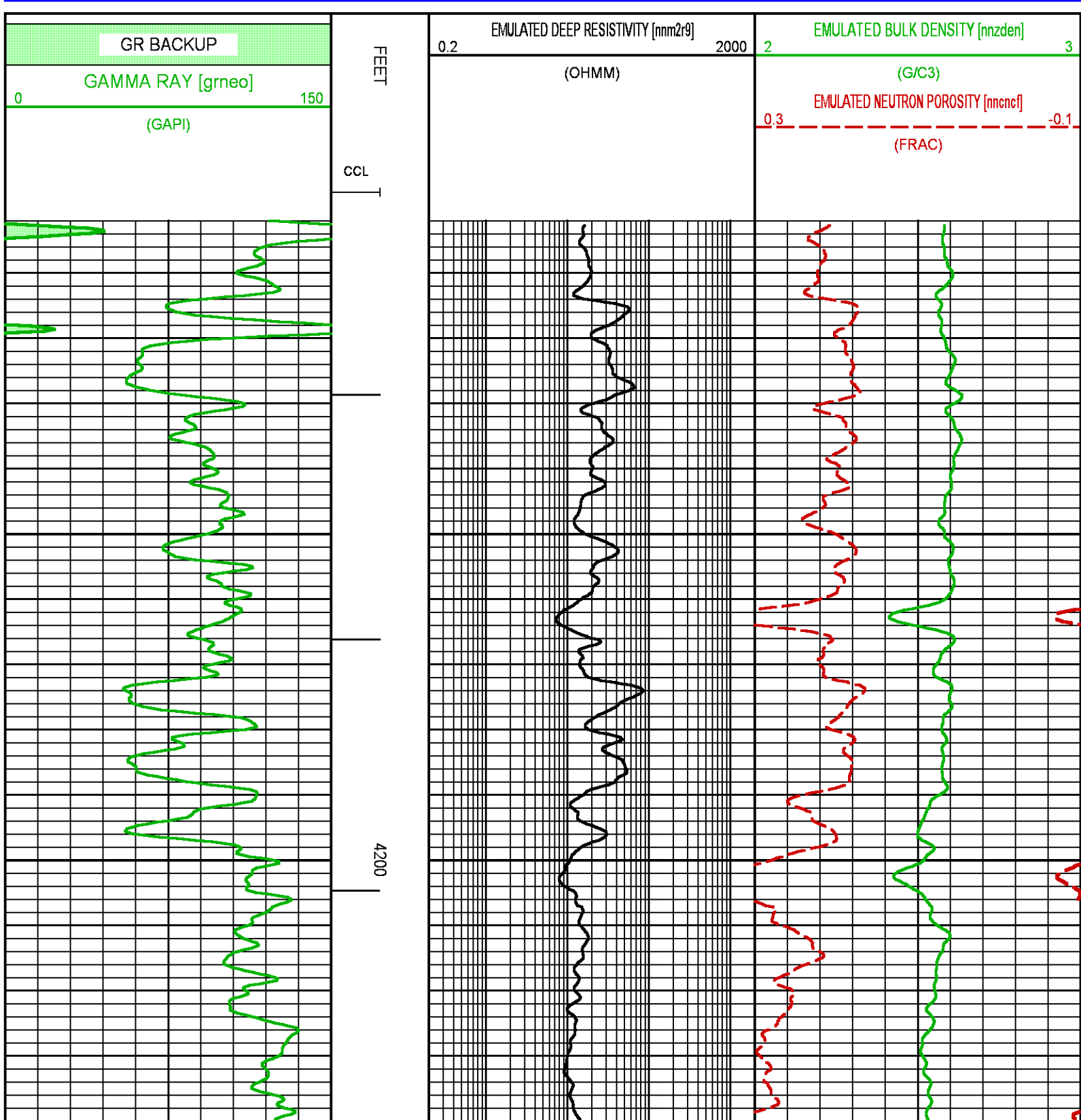
Company : LARAMIE ENERGY LLC

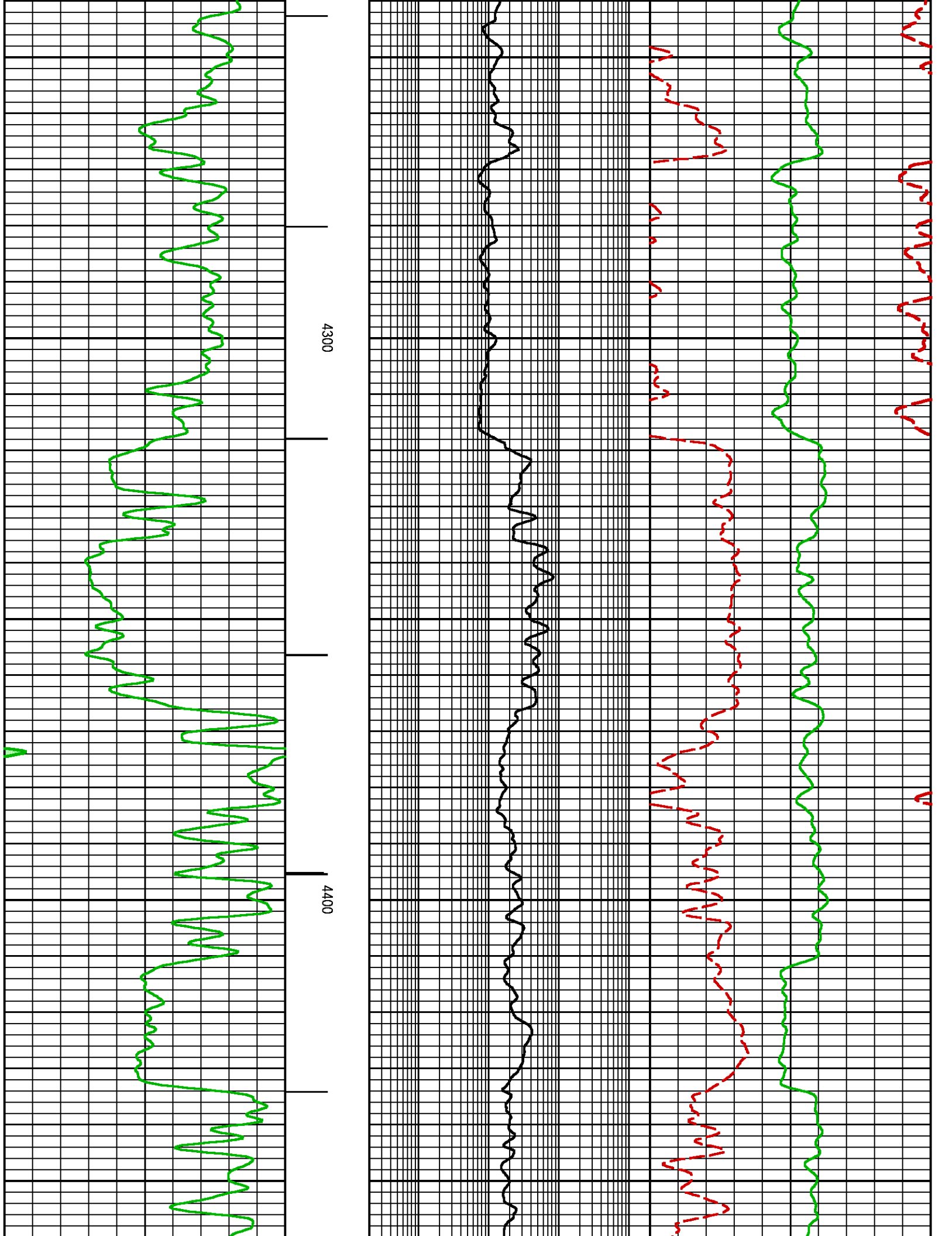
Well : NICHOLS 0994-24-05W

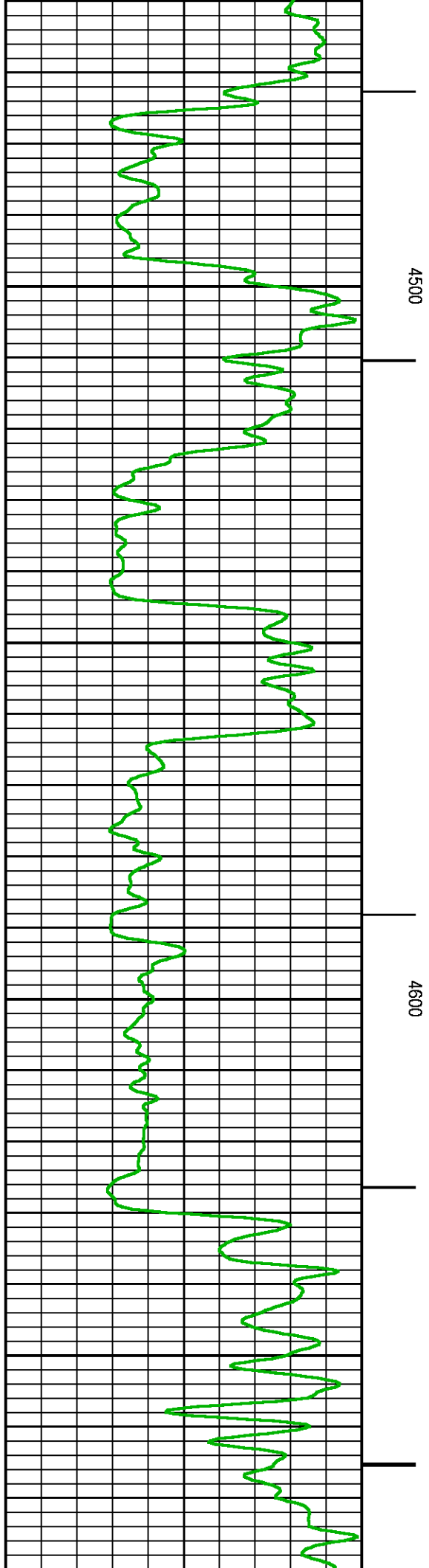
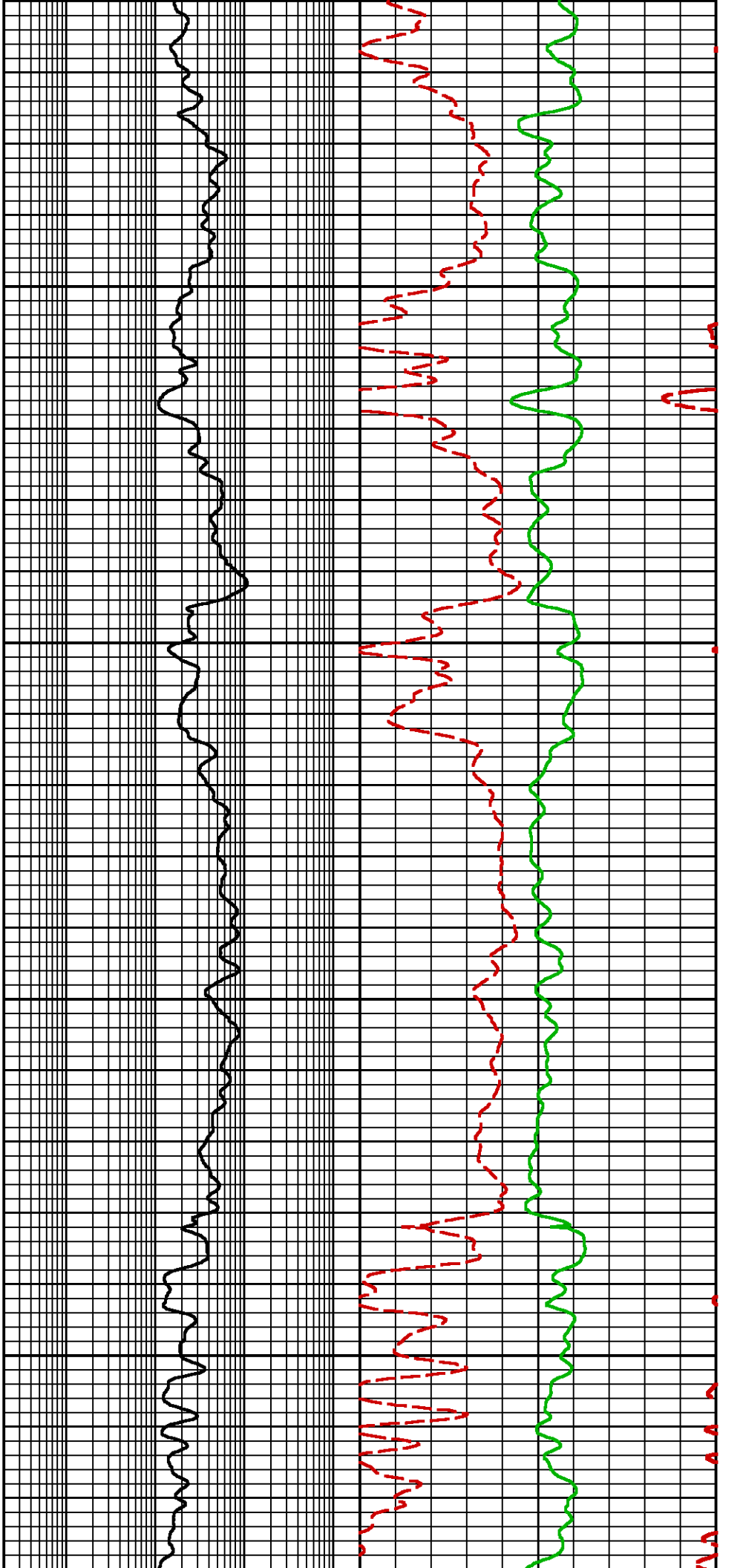
Field : VEGA

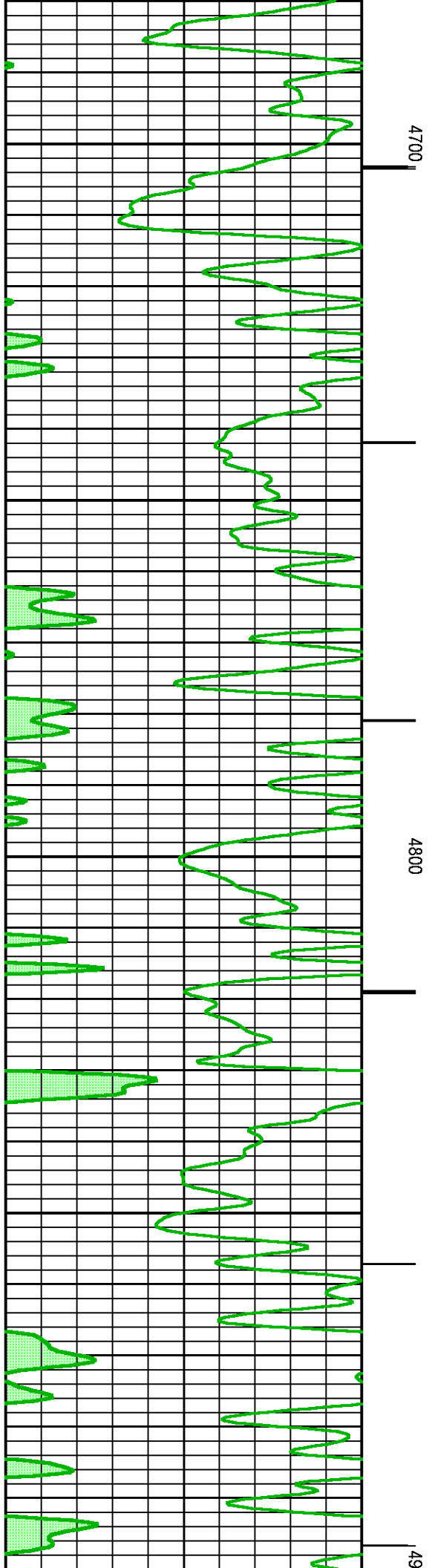
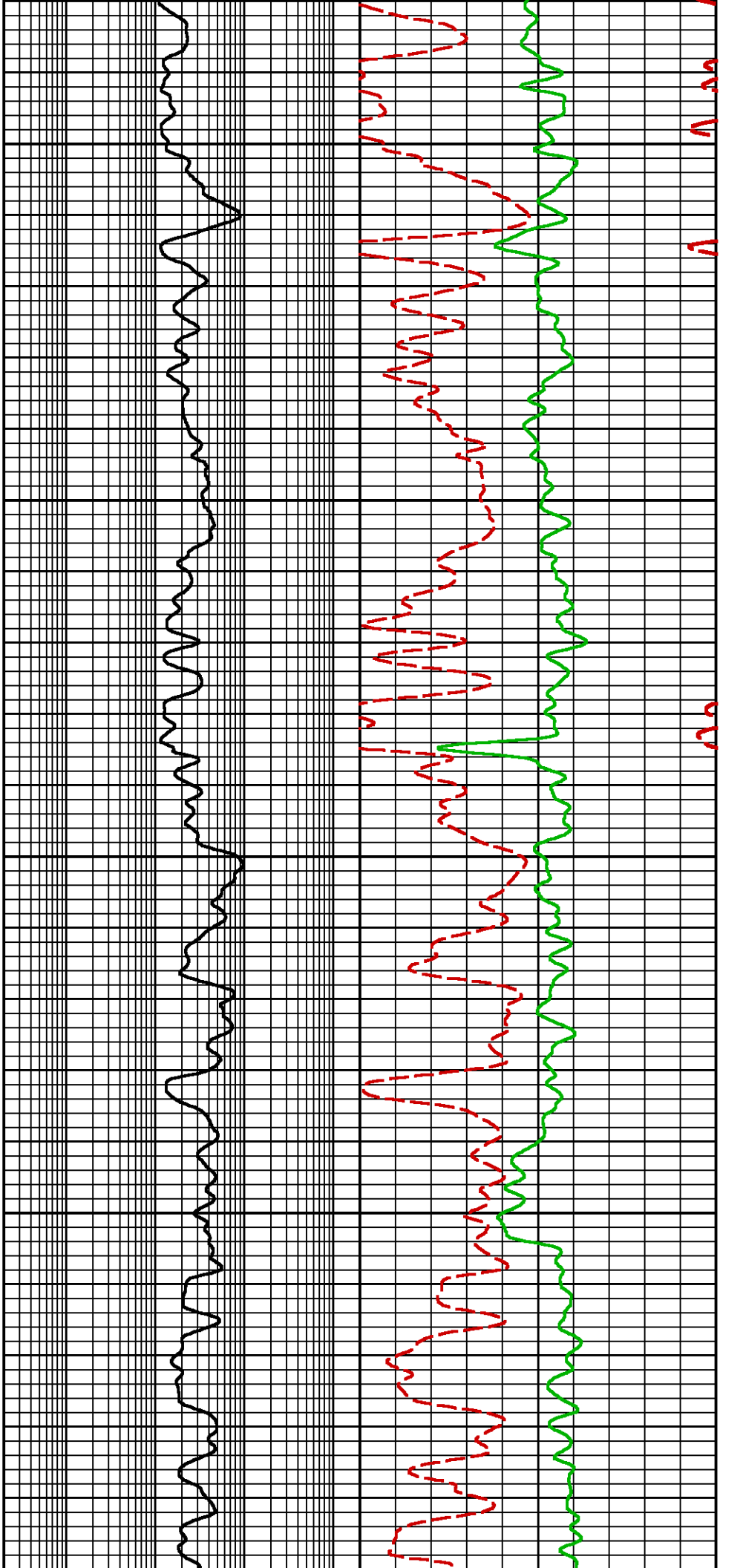
File Interval : 2243.25 - 7374.25 Feet

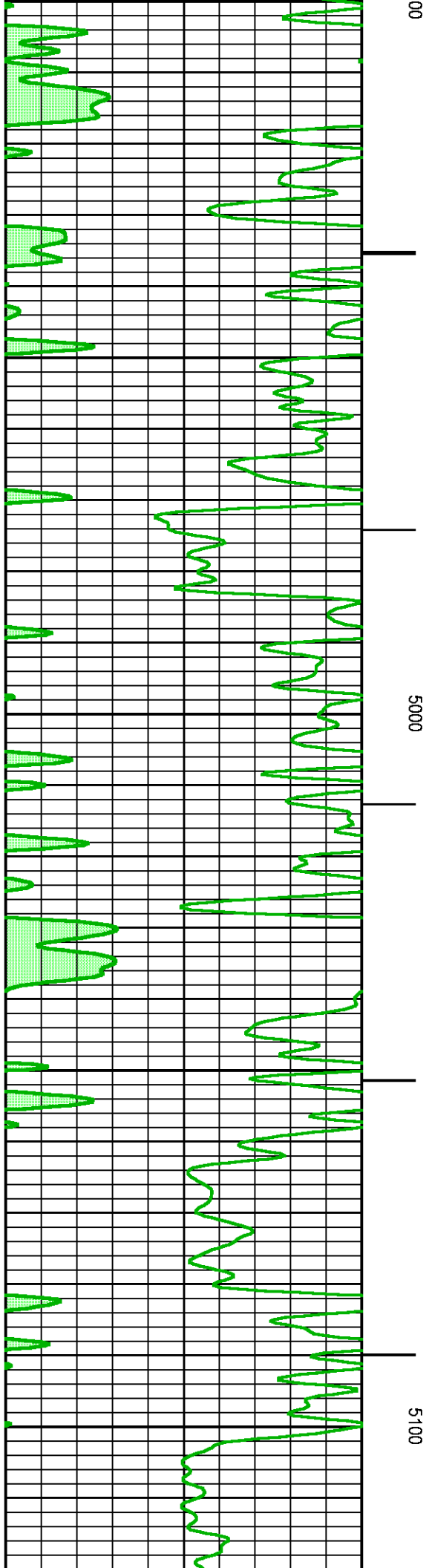
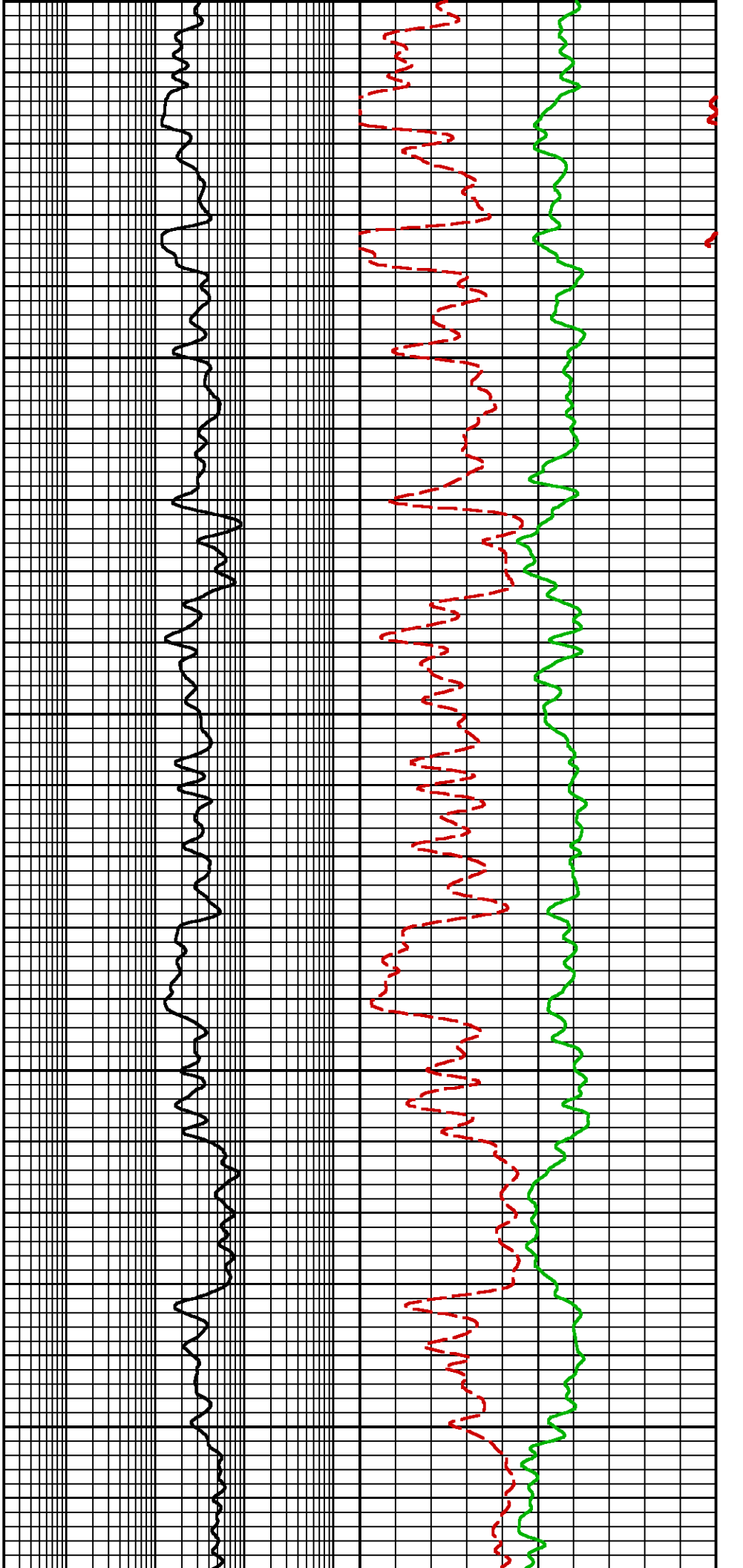
OCT : NA

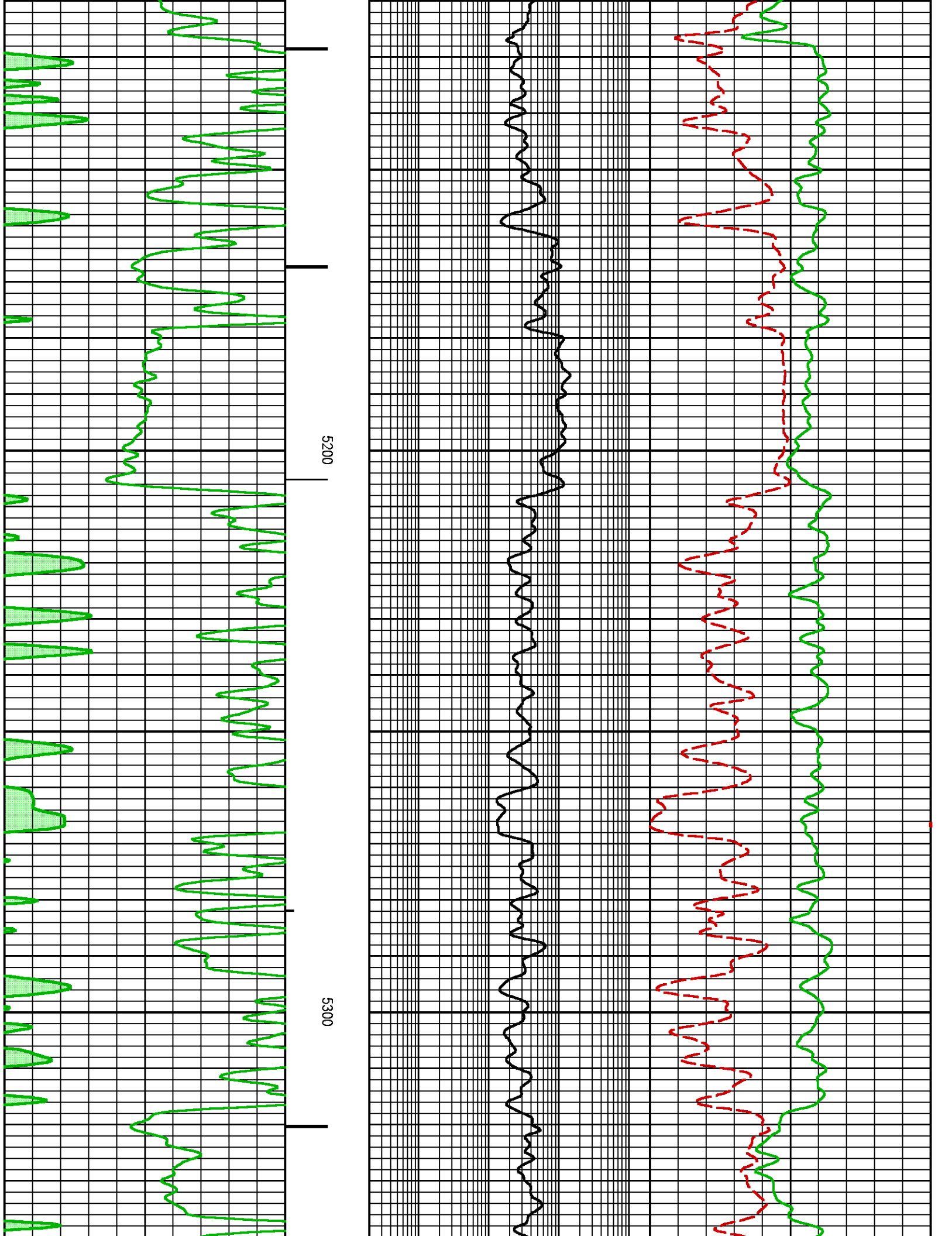


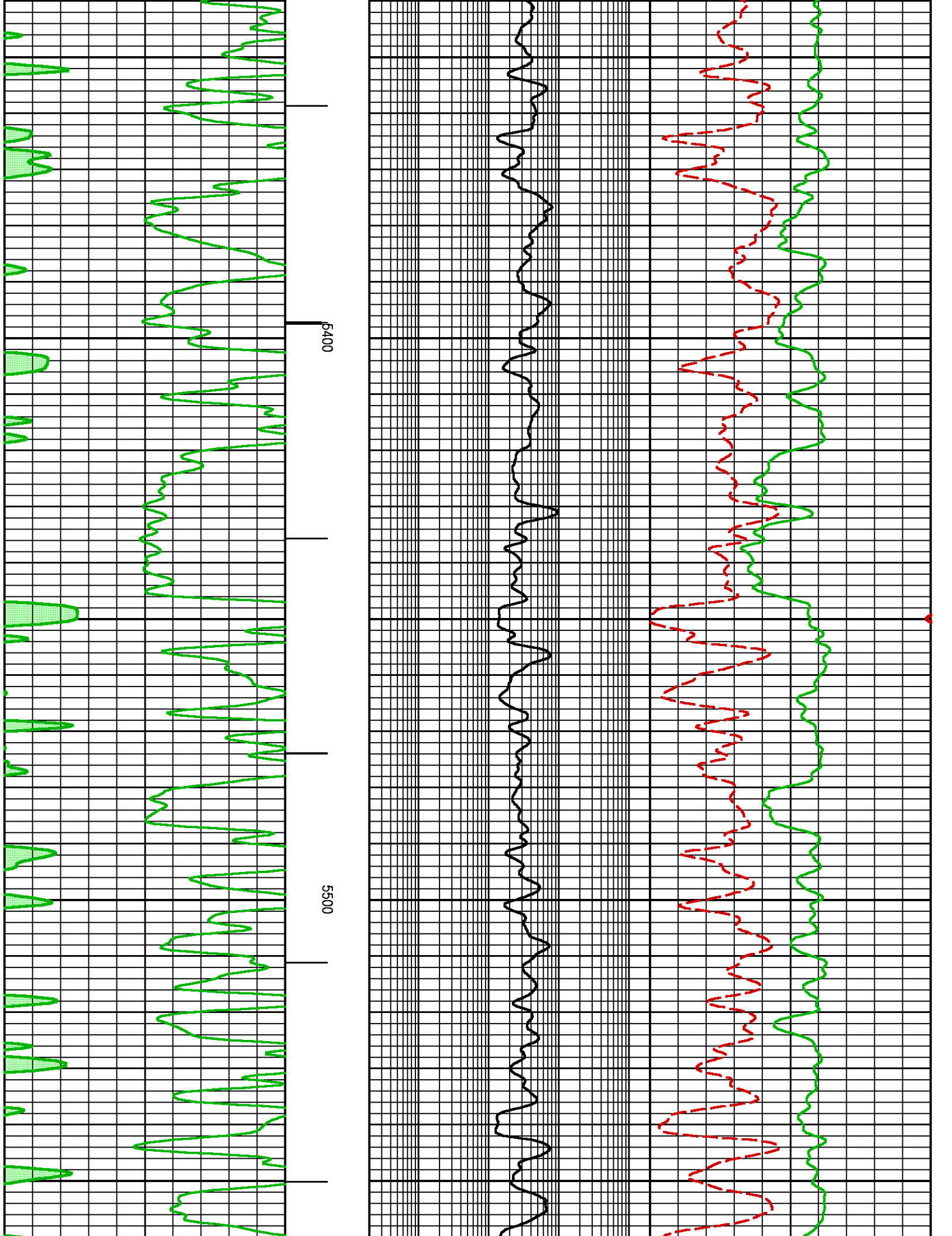


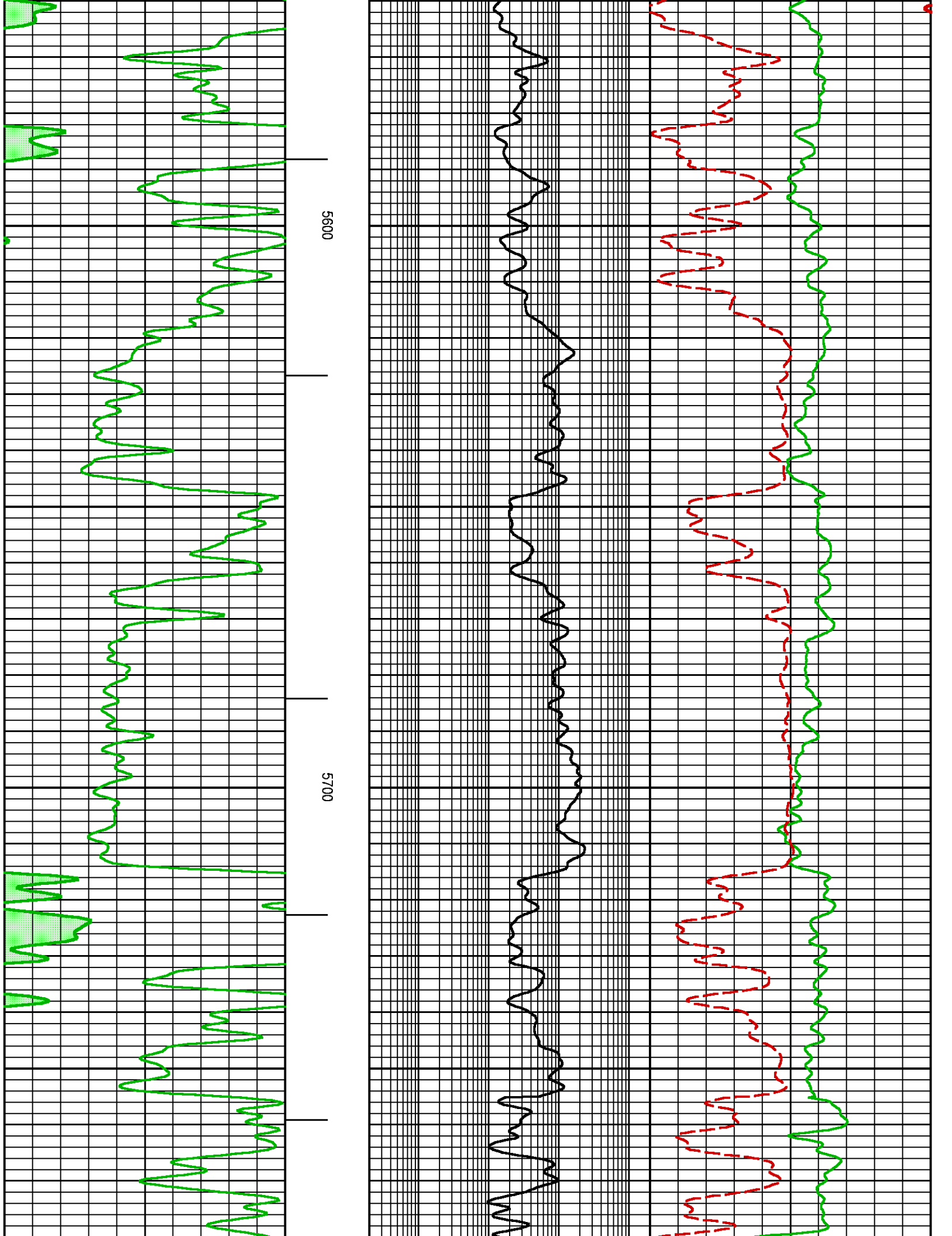


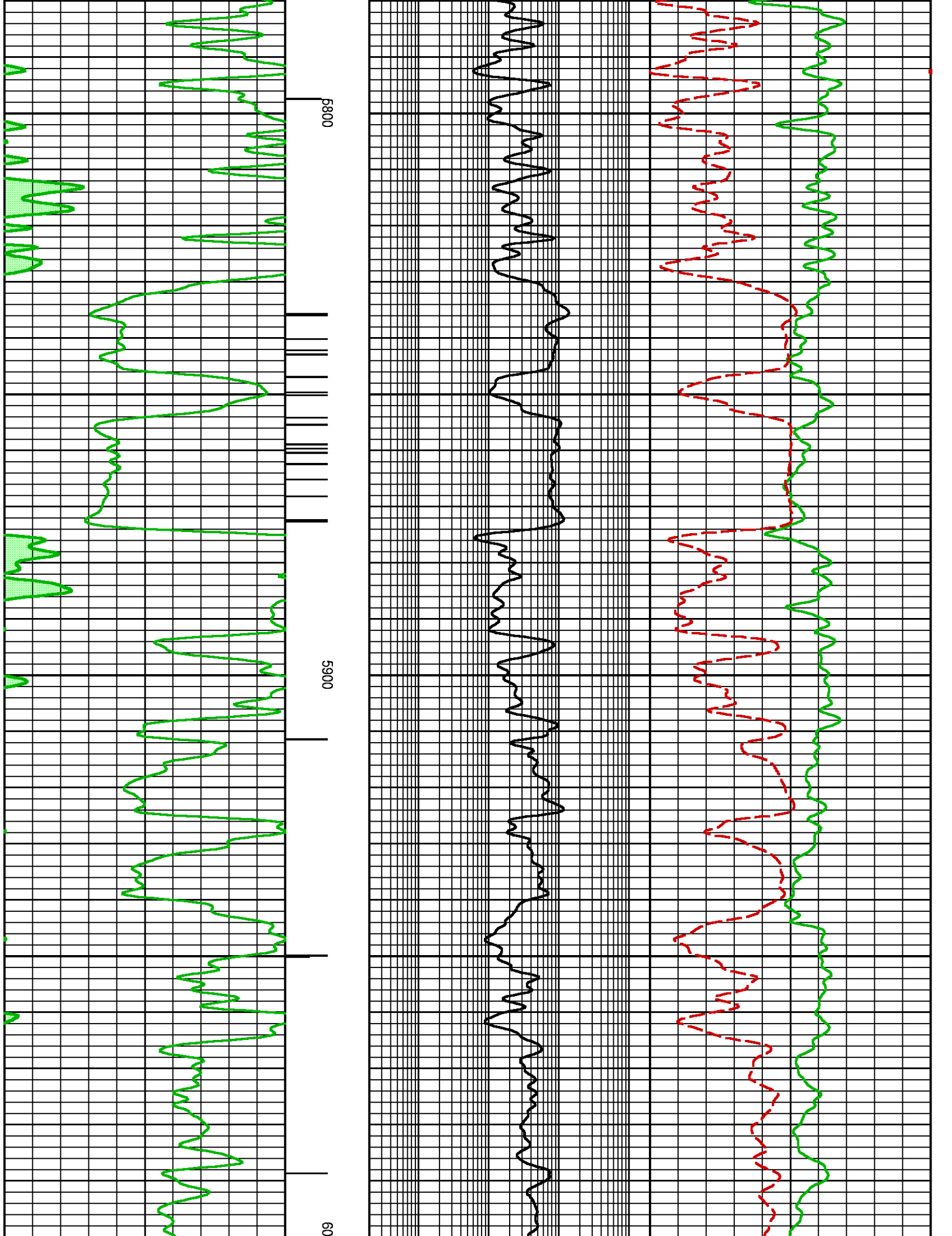


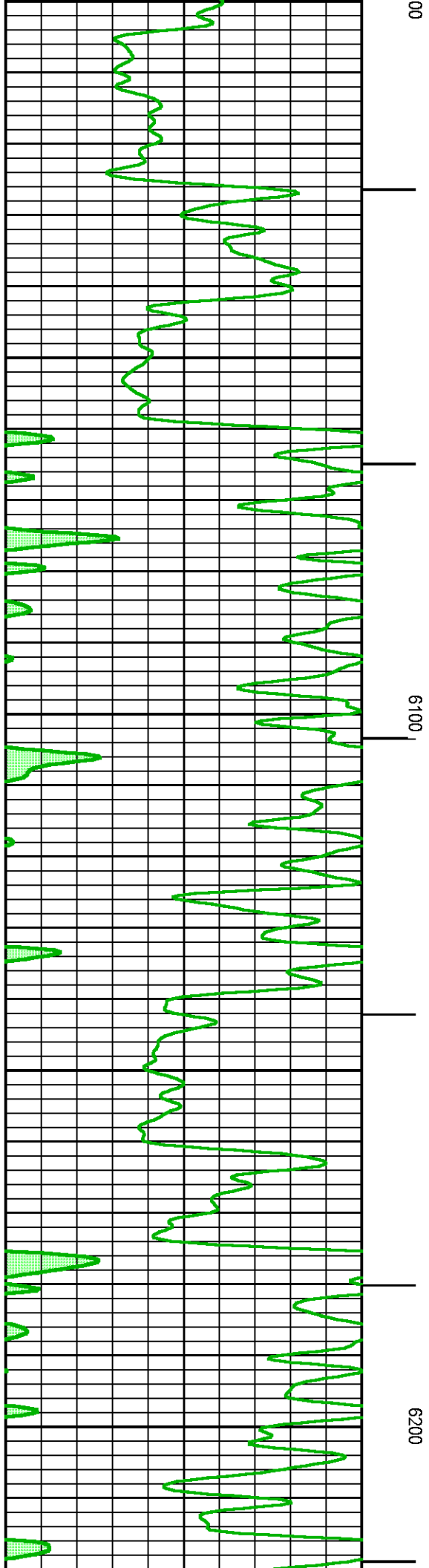
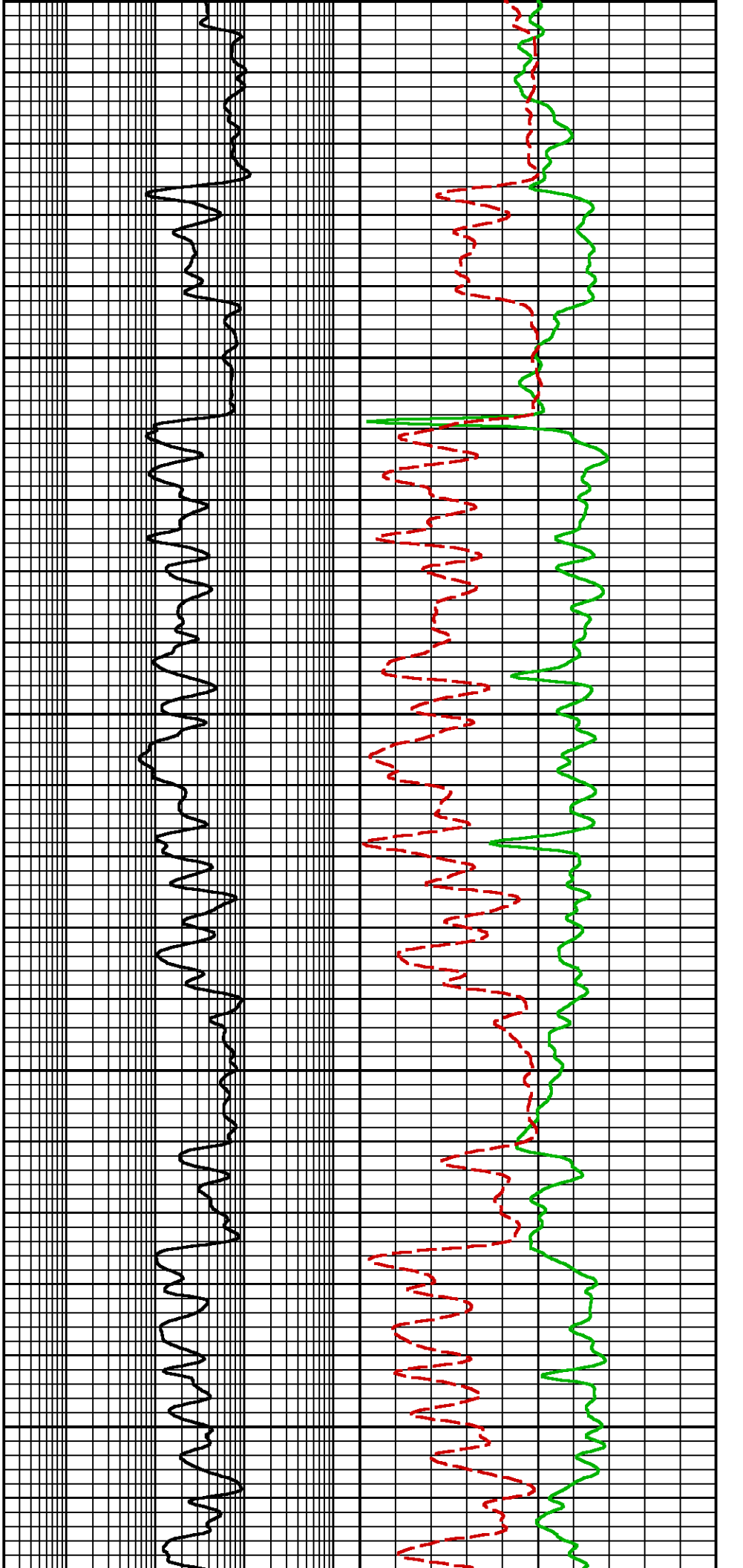


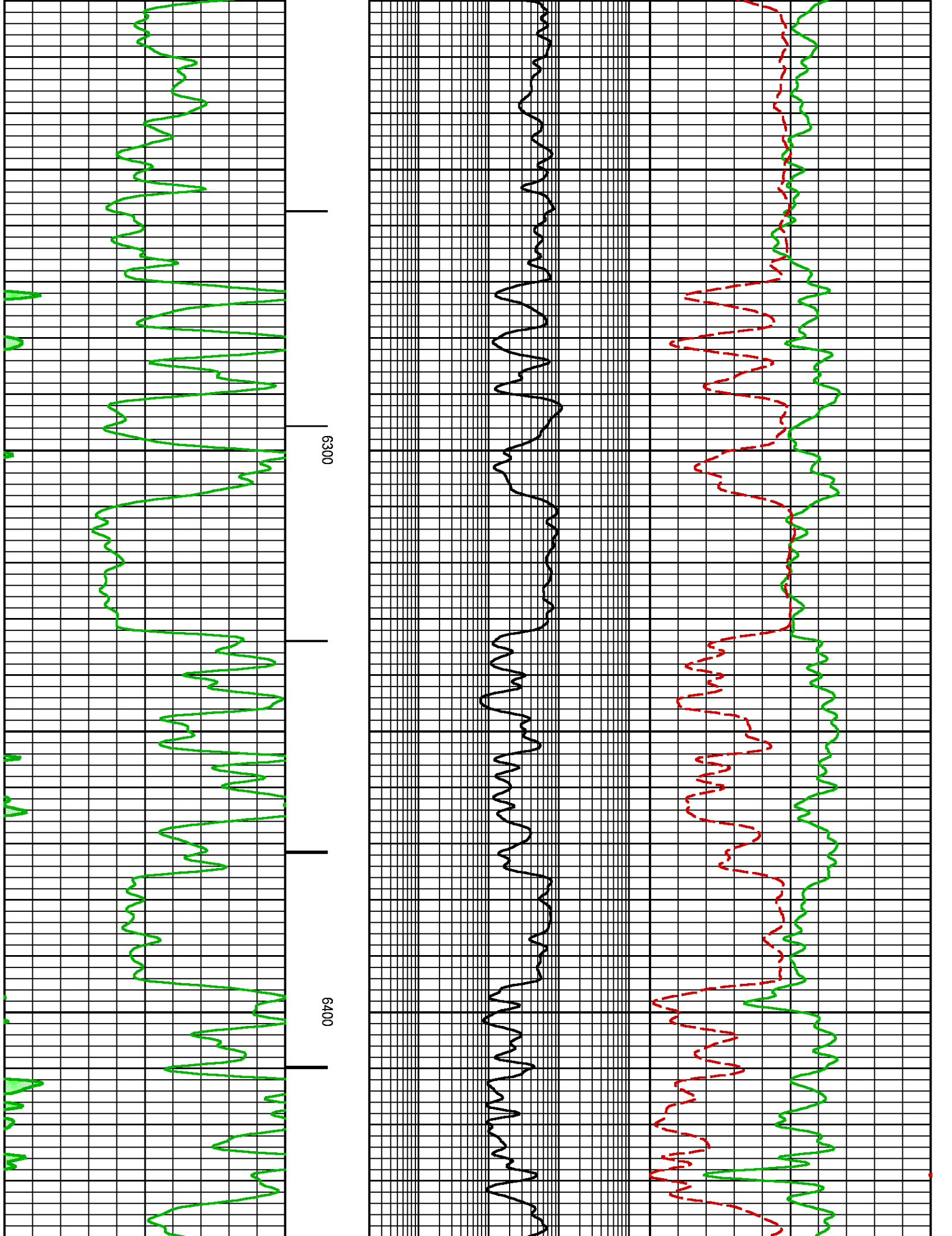


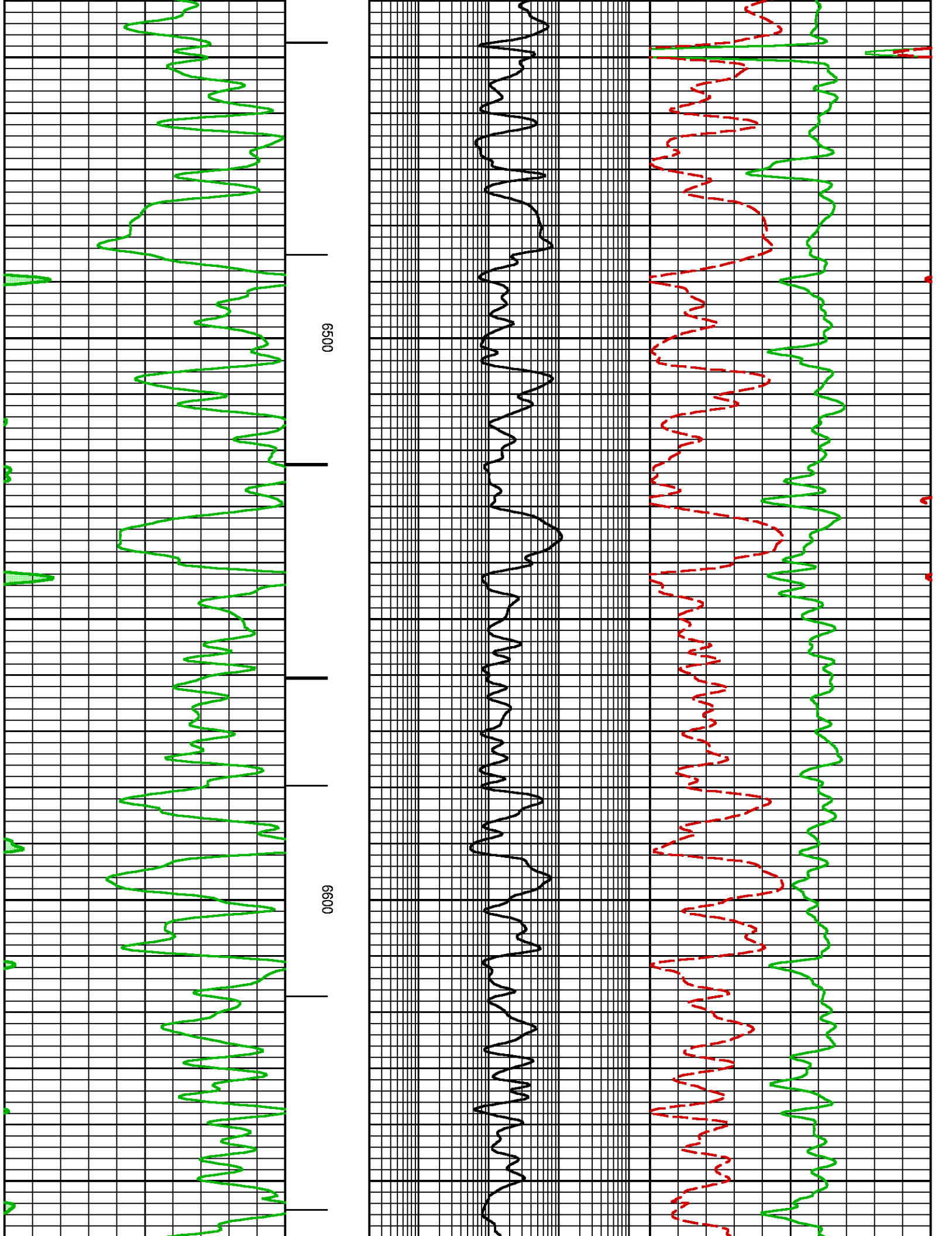


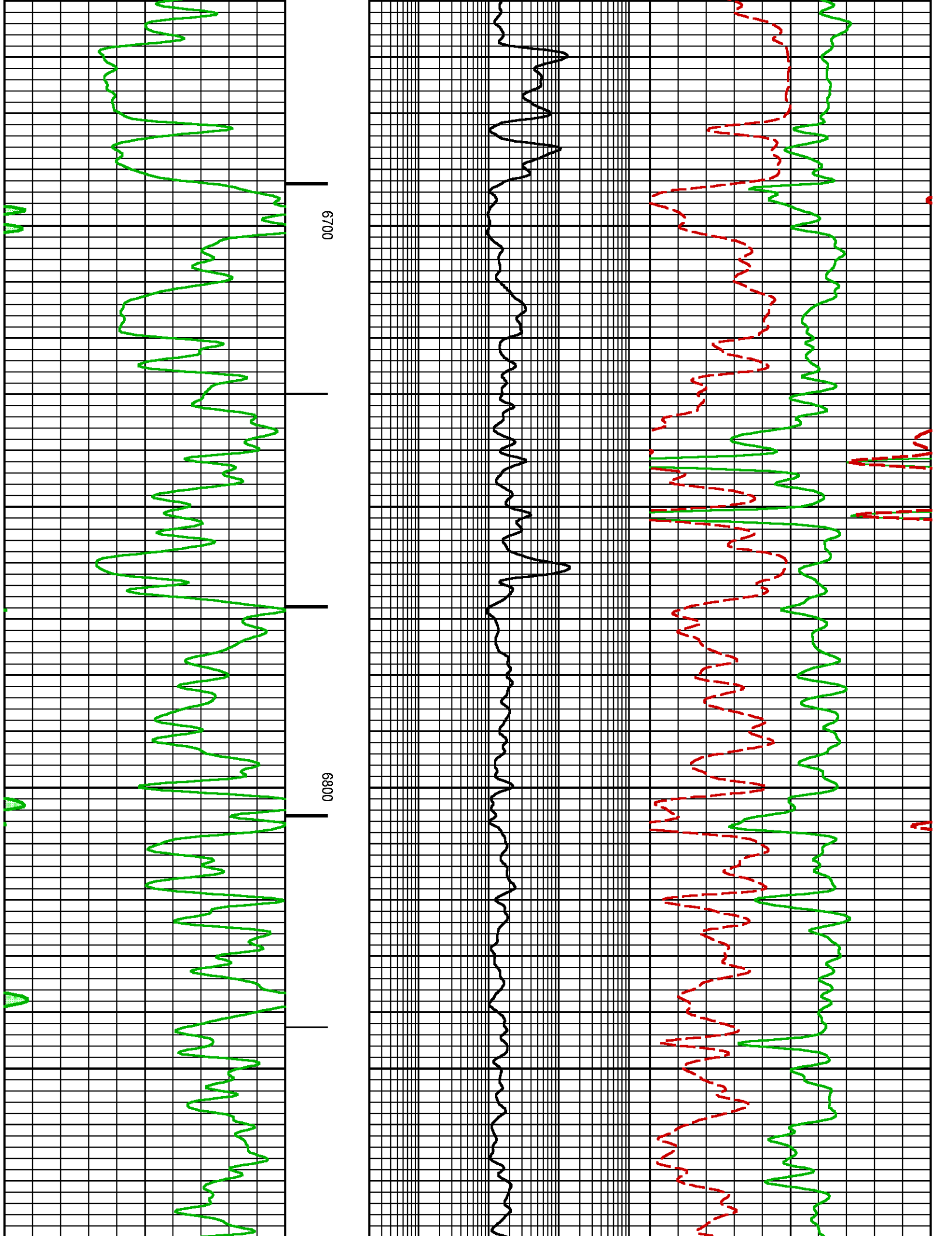


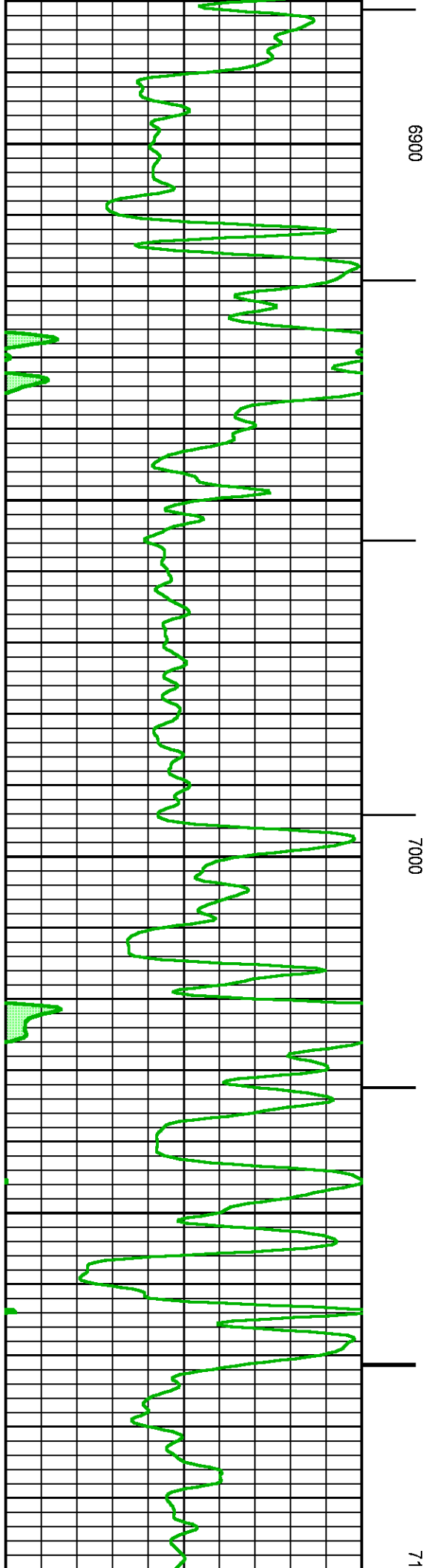
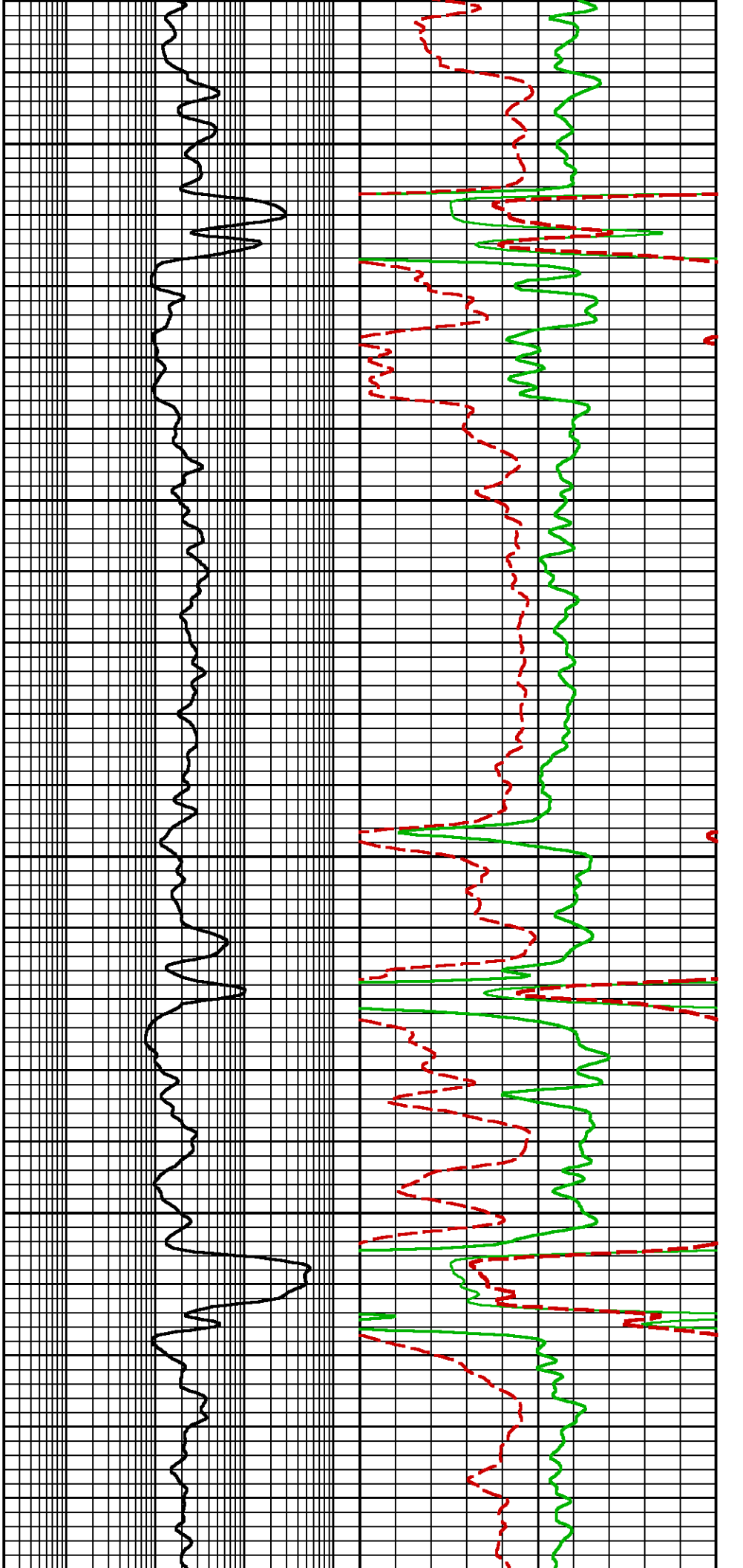


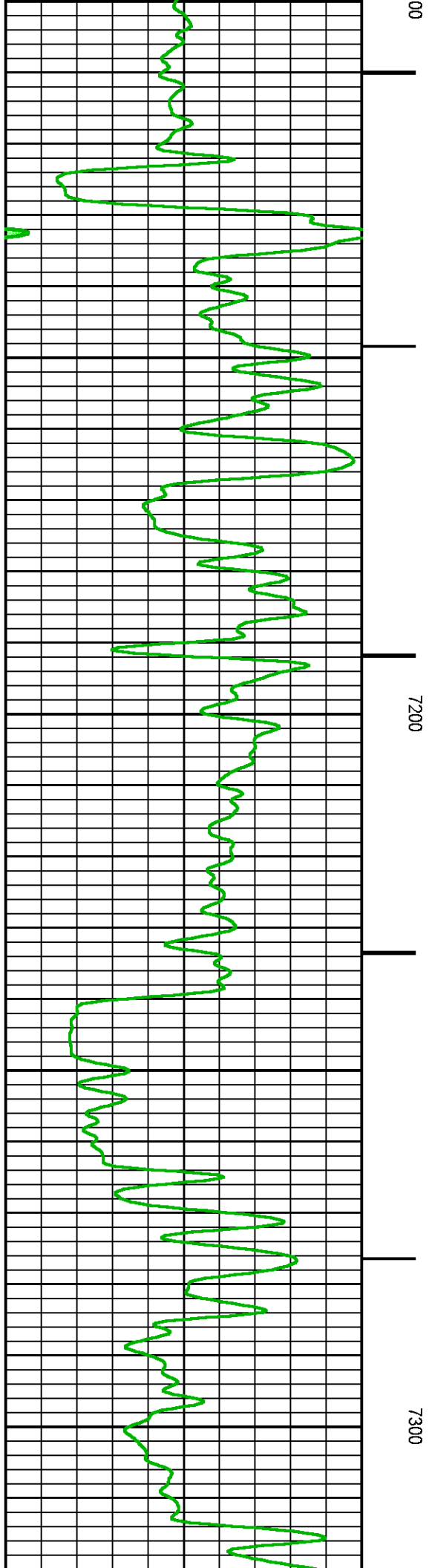
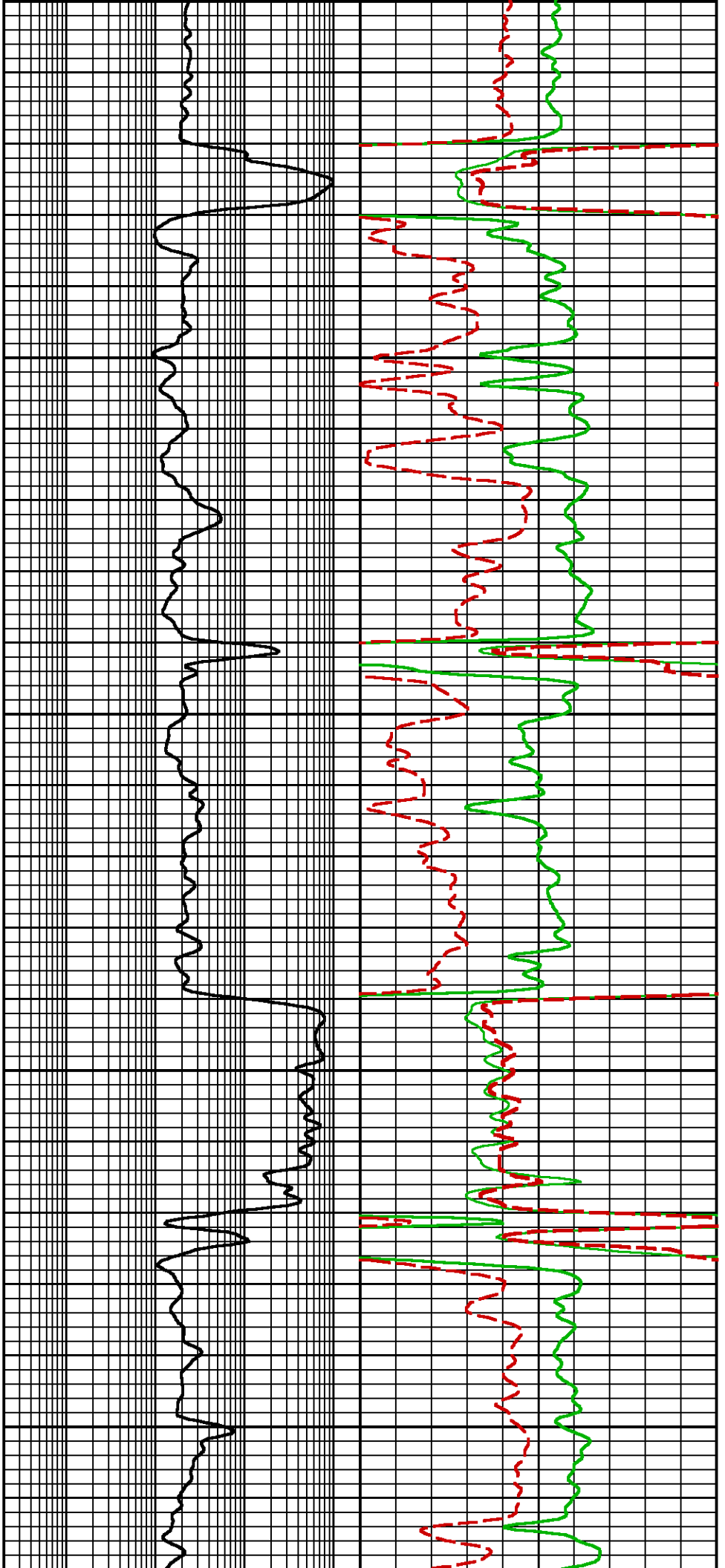


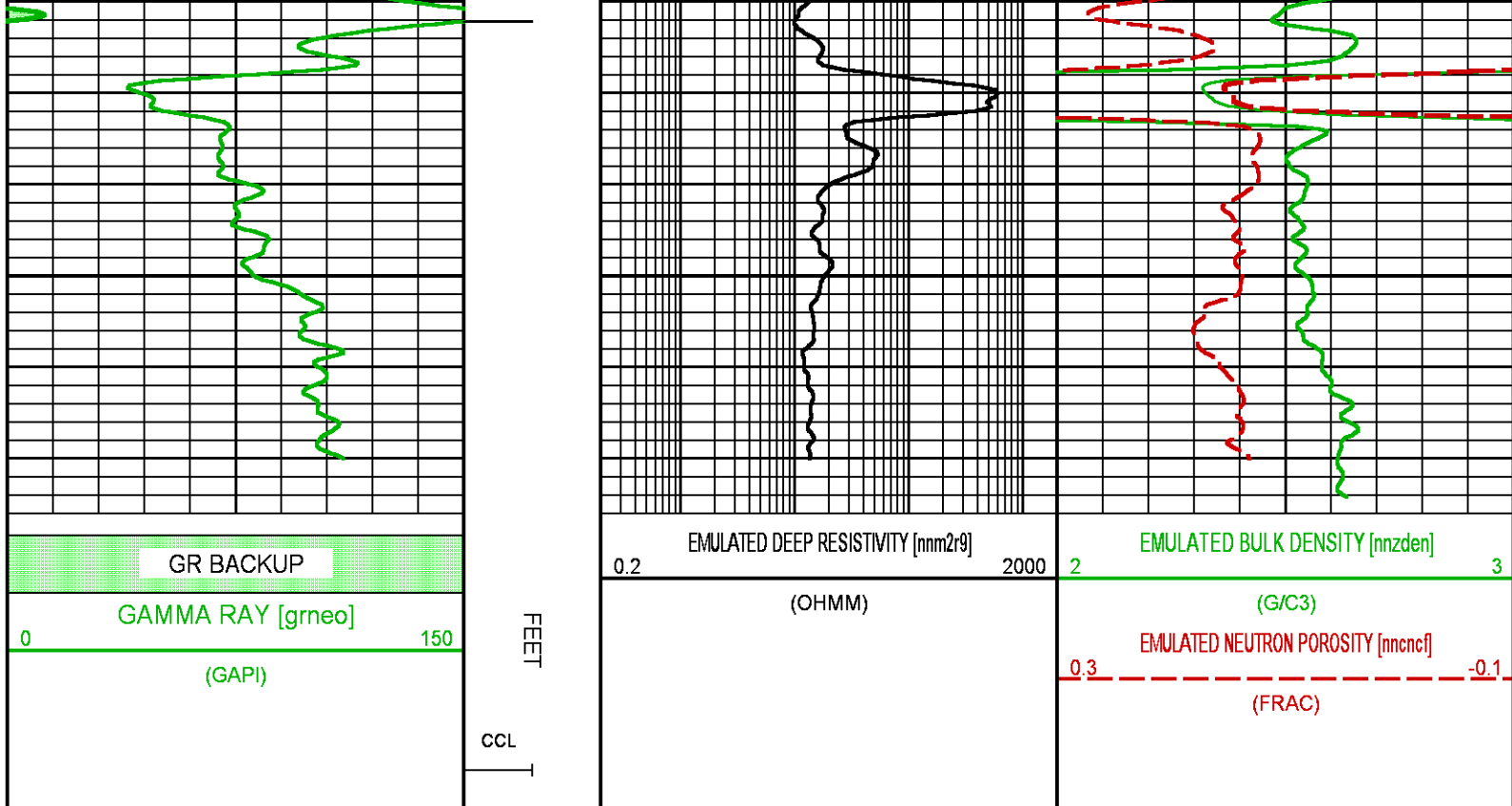















 	COMPANY <u>LARAMIE ENERGY</u> WELL <u>NICHOLS 0994-24-05W</u> FIELD <u>VEGA</u> COUNTY <u>MESA</u> STATE <u>COLORADO</u>	FILE NO: <u>132018</u> API NO: <u>05077104070000</u>
	LOCATION: <u>SEE REMARKS SECTION</u>	ELEVATIONS: KB <u>7161 FT</u> DF <u>7160 FT</u> GL <u>7137 FT</u>
	SEC <u>24</u> TWP <u>9S</u> RGE <u>94W</u>	DATE <u>8-FEB-2018</u>