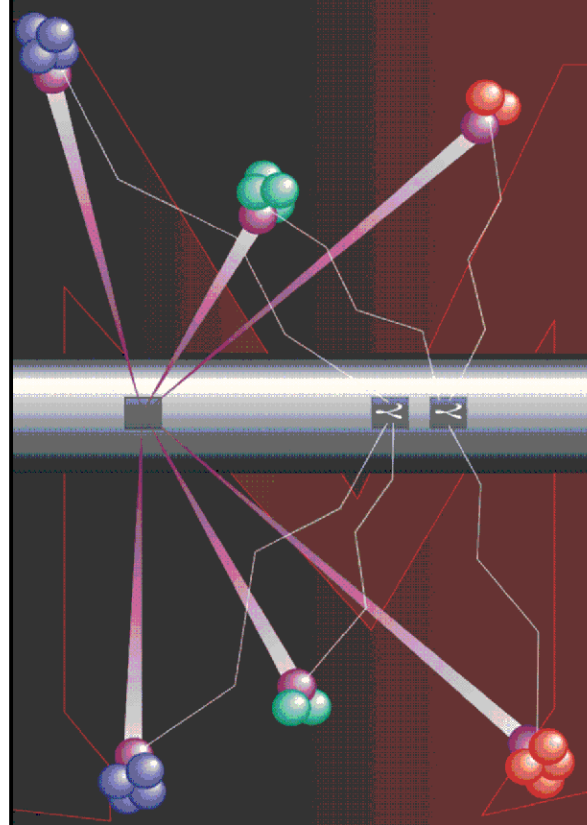


Pulsed Neutron Formation Evaluation



NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY LLC

WELL NICHOLS 0994-24-05E

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS SECTION

SEC 24 TWP 9S RGE 94W

ELEVATIONS:

KB 7161.0 FT DF 7160.0 FT GL 7137.0 FT

DATE 26-JAN-2018 ECC 30151-01

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>6-FEB-2018</u>
FIELD DATA	LOCATION: <u>GRAND JUNCTION</u>		ENGINEER: <u>M.MENTZER/US132017</u>		DATE: <u>26-JAN-2018</u>
FROM	TO				
<u>2343 FT</u>	<u>7486 FT</u>				

REMARKS

LOCATION:
SHL: 39.264520 N; 107.830690 W
BHL: 39.266727 N; 107.826028 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 0994-24-05E (G-SAND)

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

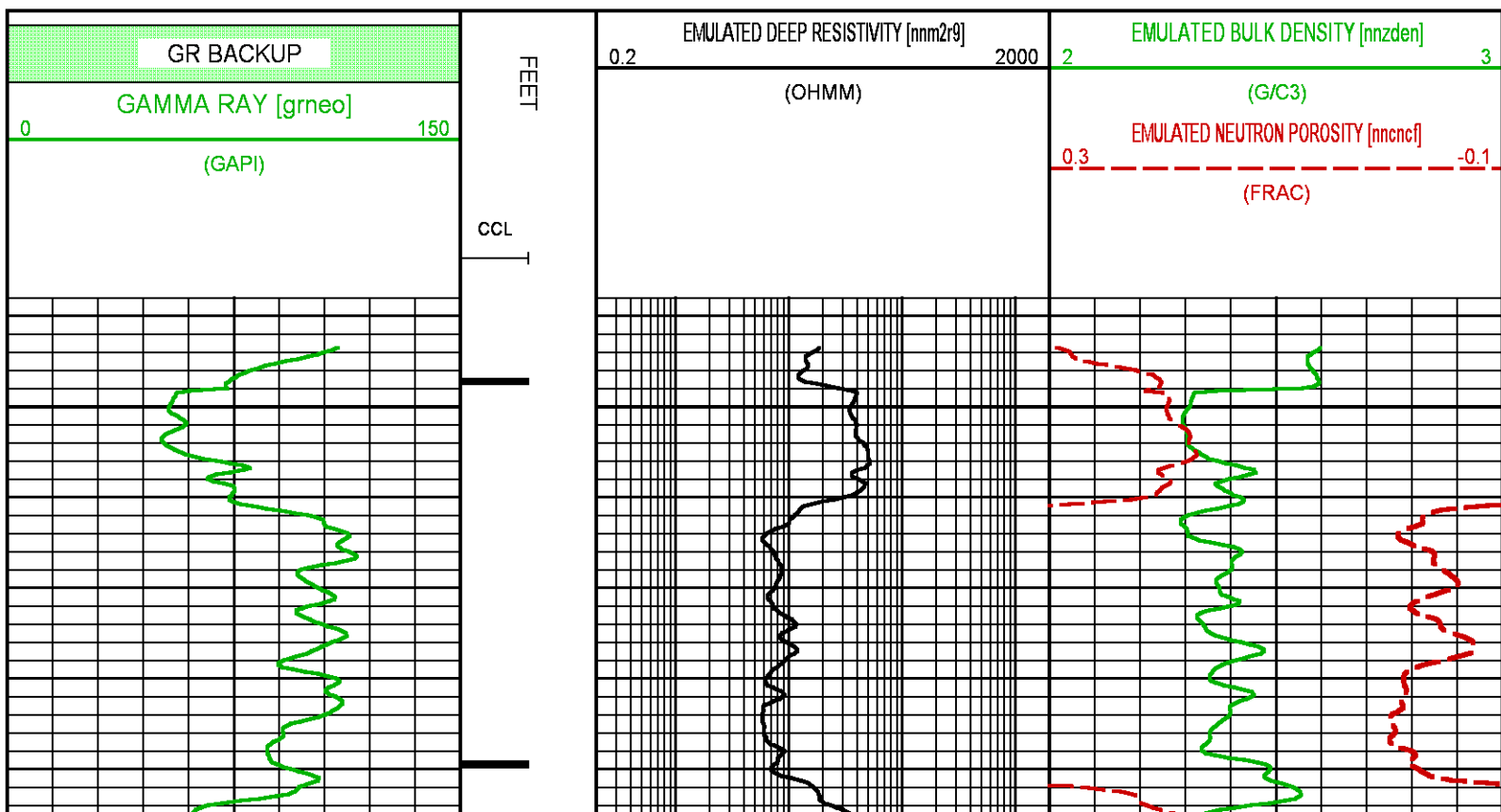
Plotted: Tue Feb 06 10:03:01 2018

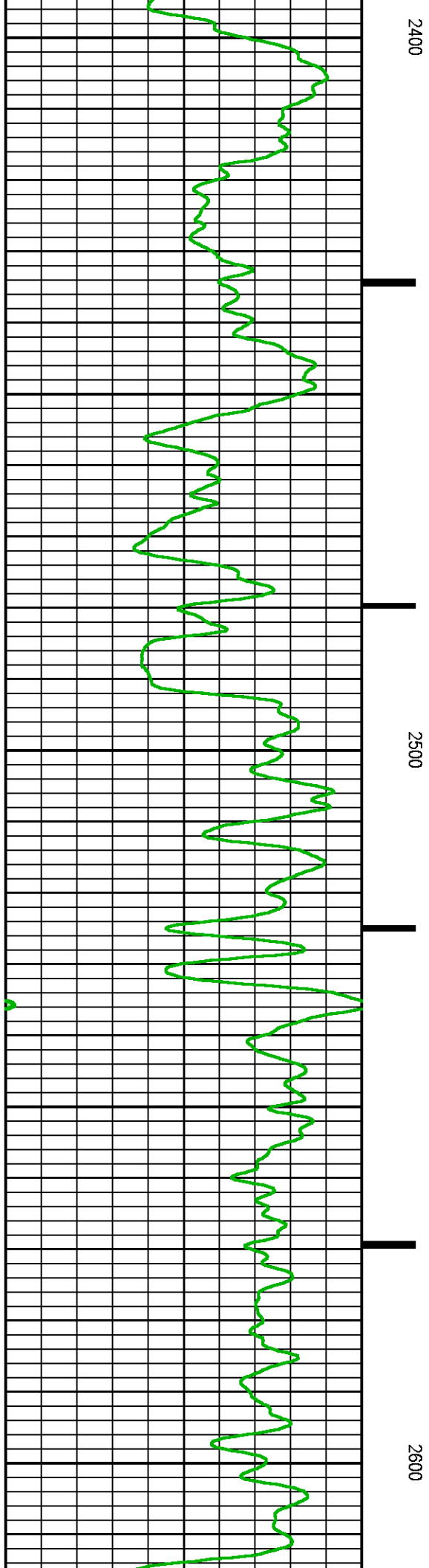
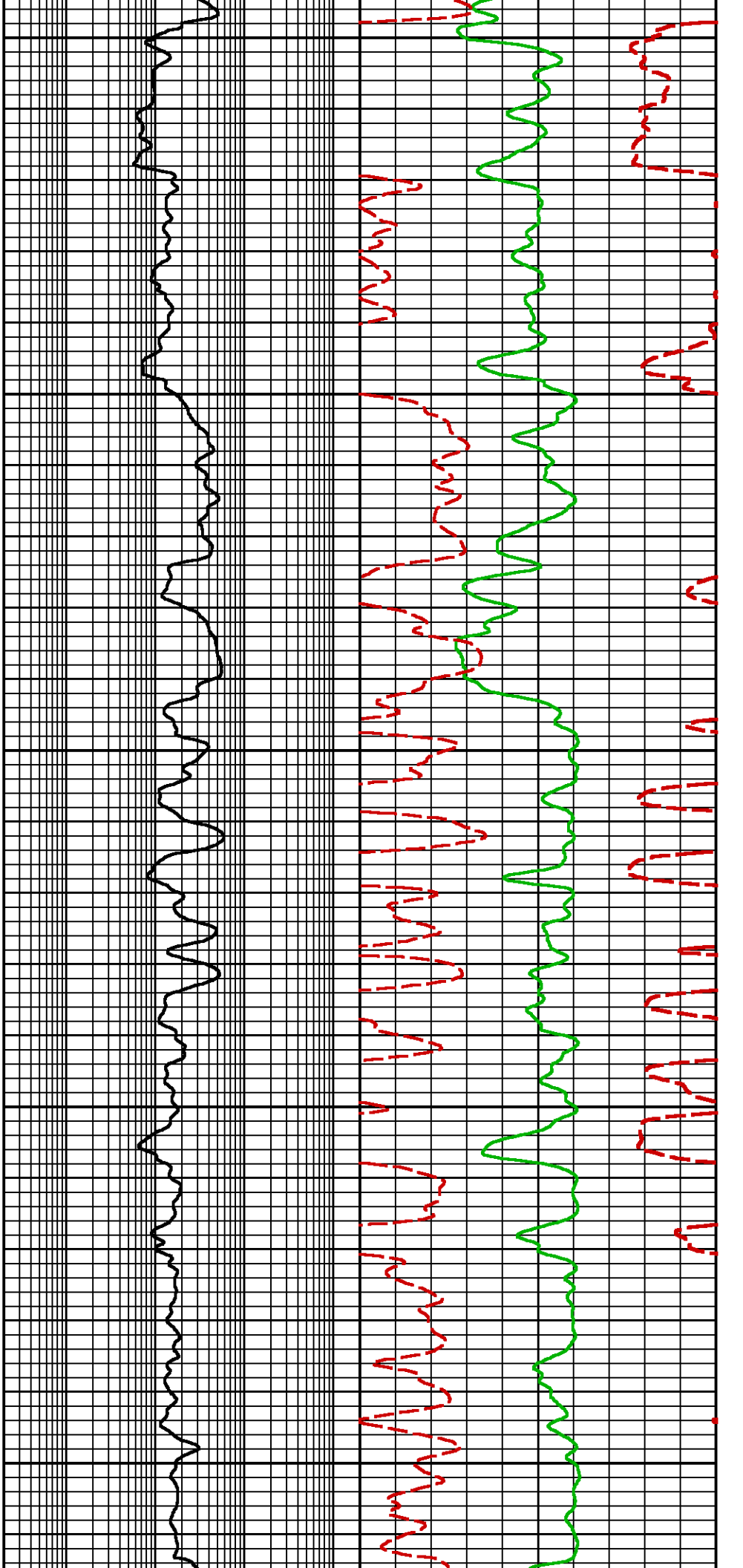
CURVE MEASURE POINT OFFSET

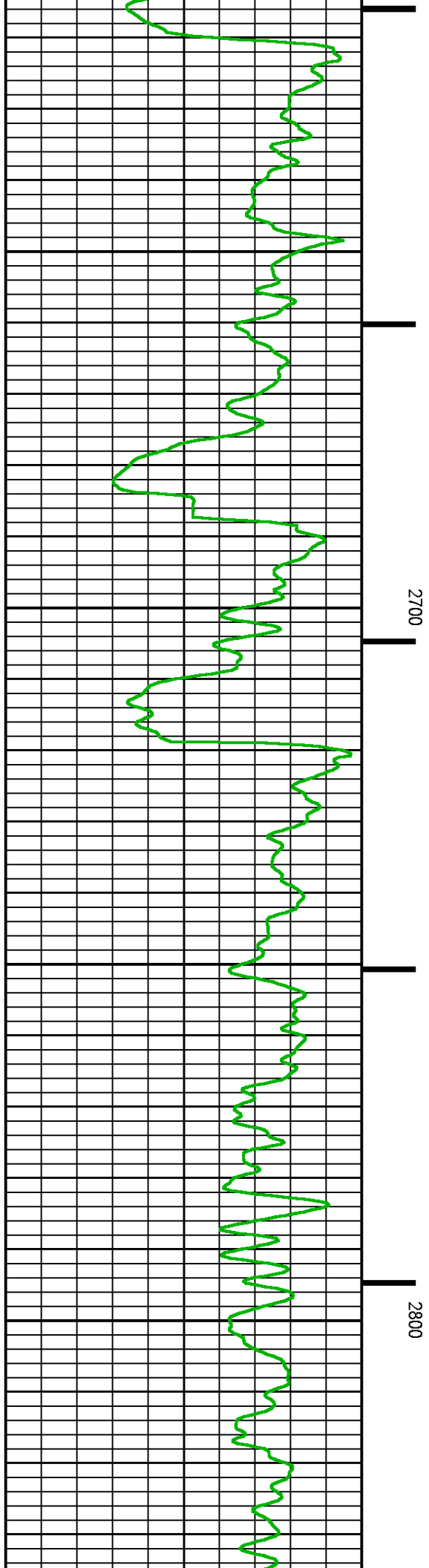
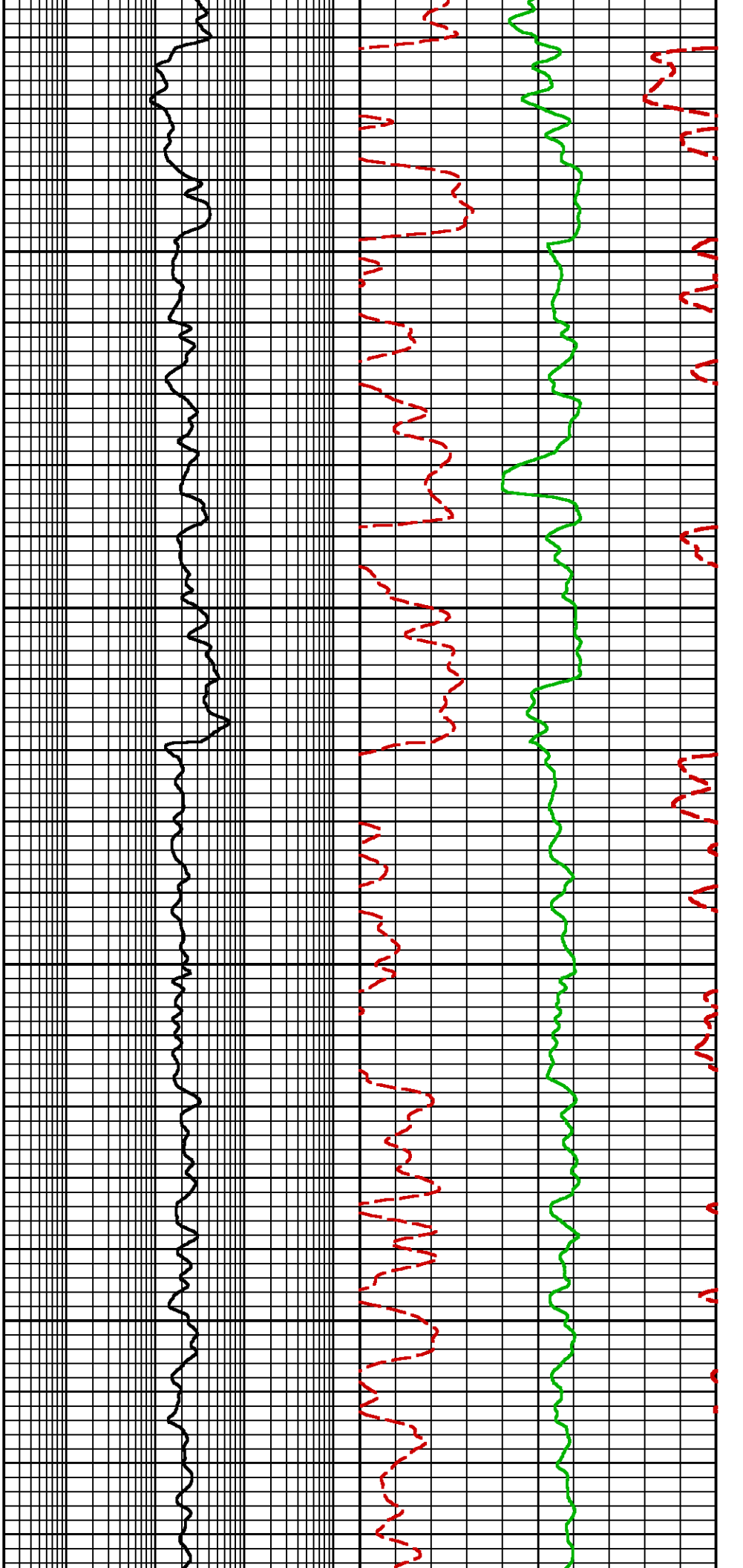
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNCf	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

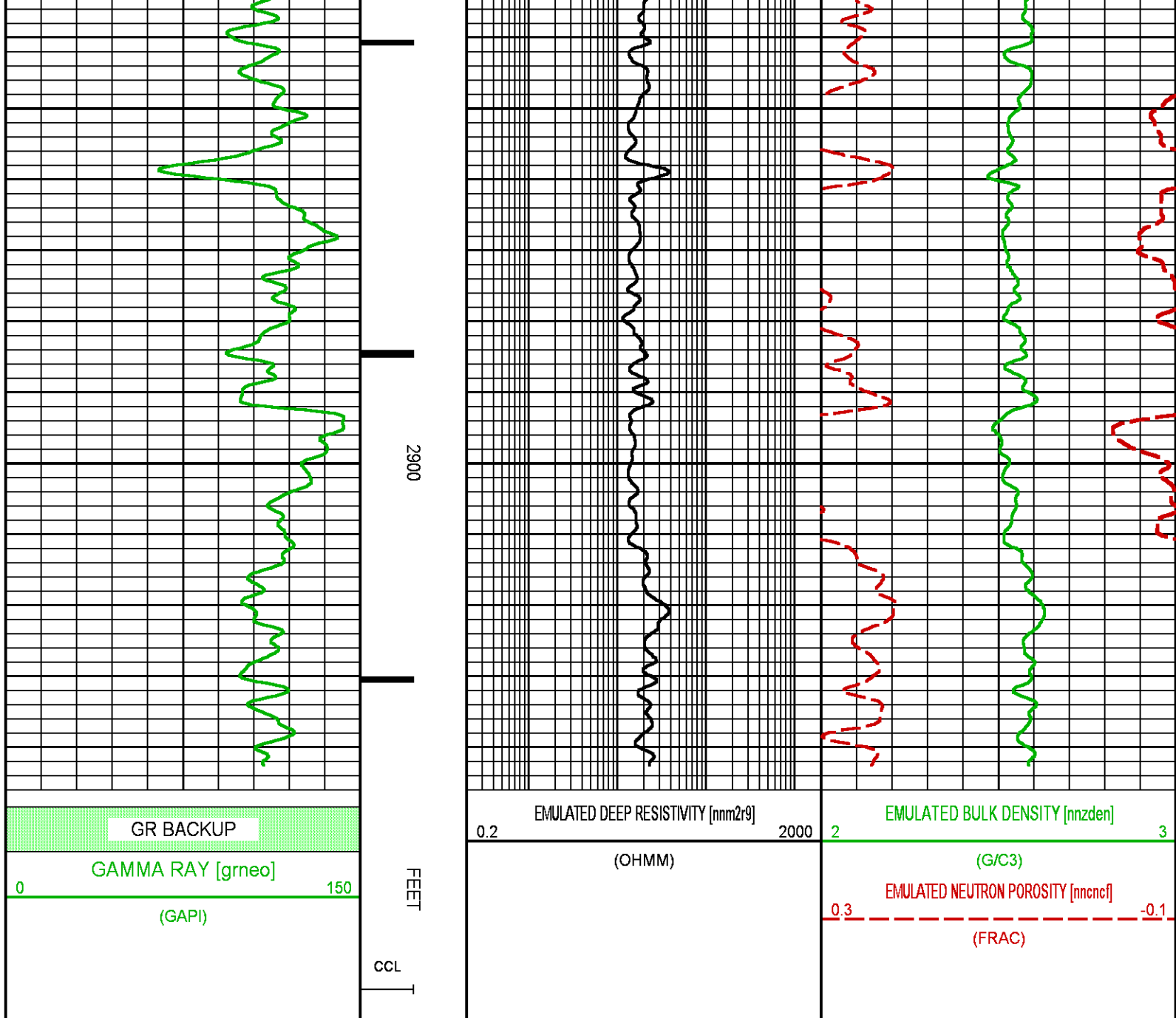
Project : NA
User : kotoale
Presentation : BHI1F65XZ1:d:\Ape_Projects\Laramie_NICHOLS_0994_24_05E_NEO\NEO_PRESENTATION_LARAMIE_G-Sand.pdf [5"/100' Scale]
Plot Interval : 2338 - 2945 Feet

Data File 1 : F1 : BHI1F65XZ1:D:\Ape_Projects\Laramie_NICHOLS_0994_24_05E_NEO\Merged_Set_Final.xtf
Created On : N/A
Company : LARAMIE ENERGY LLC
Well : NICHOLS 0994-24-05E
Field : VEGA
File Interval : 2343.5 - 7486.5 Feet
OCT : NA









NEO RESULTS FOR NICHOLS 0994-24-05E (MAIN)

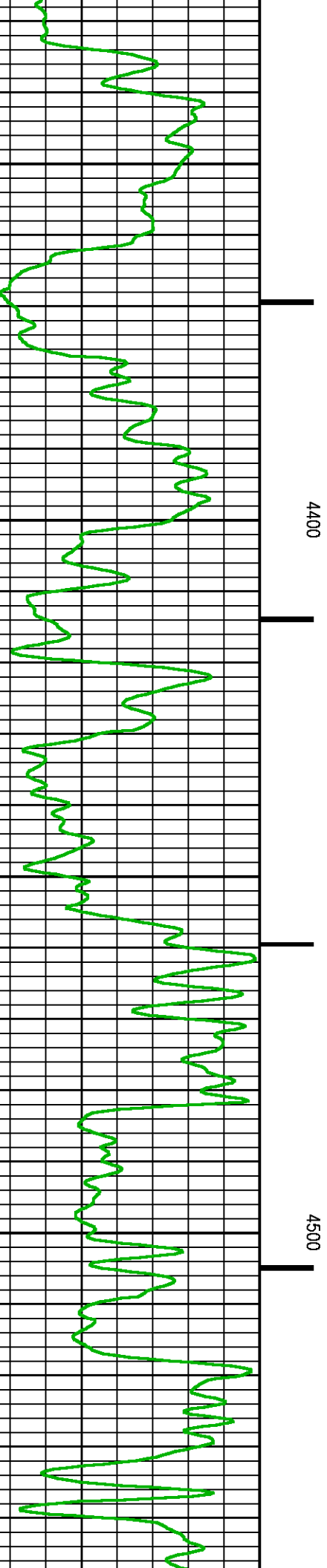
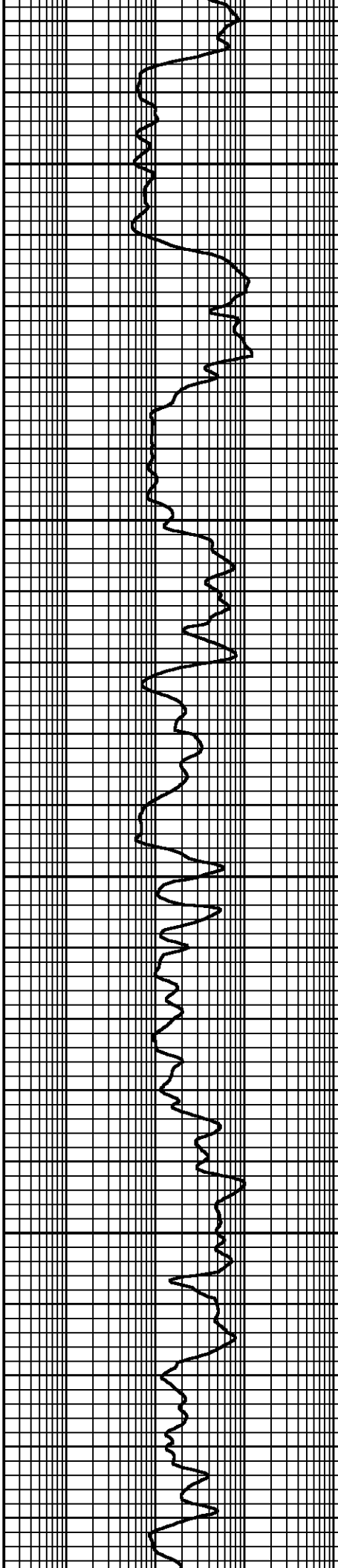
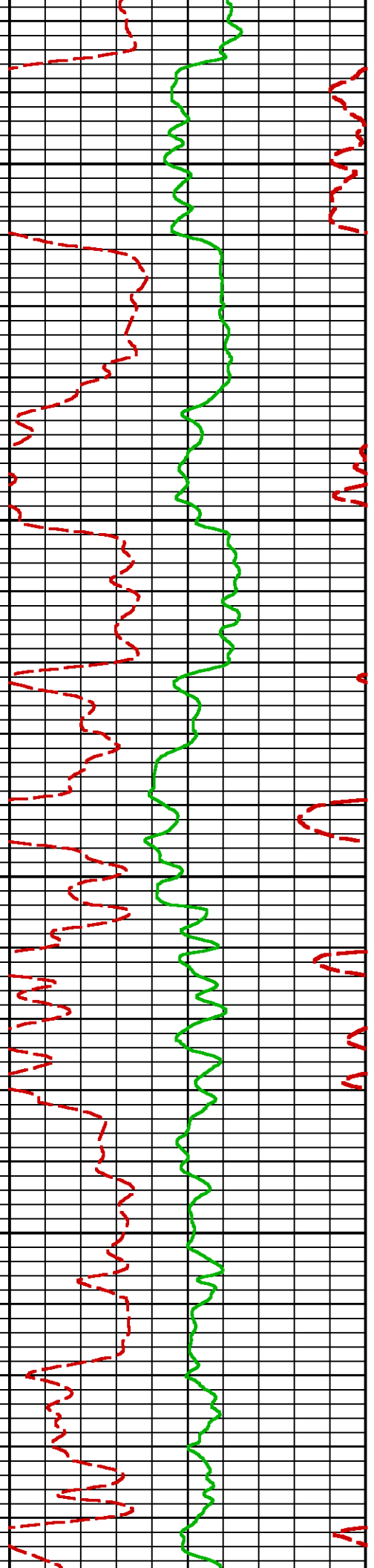
ECLIPS ECPLLOT from ECLIPS 7.0 WFM 5.0.7343.1 Sun 02/07/2016 16:48:51.73

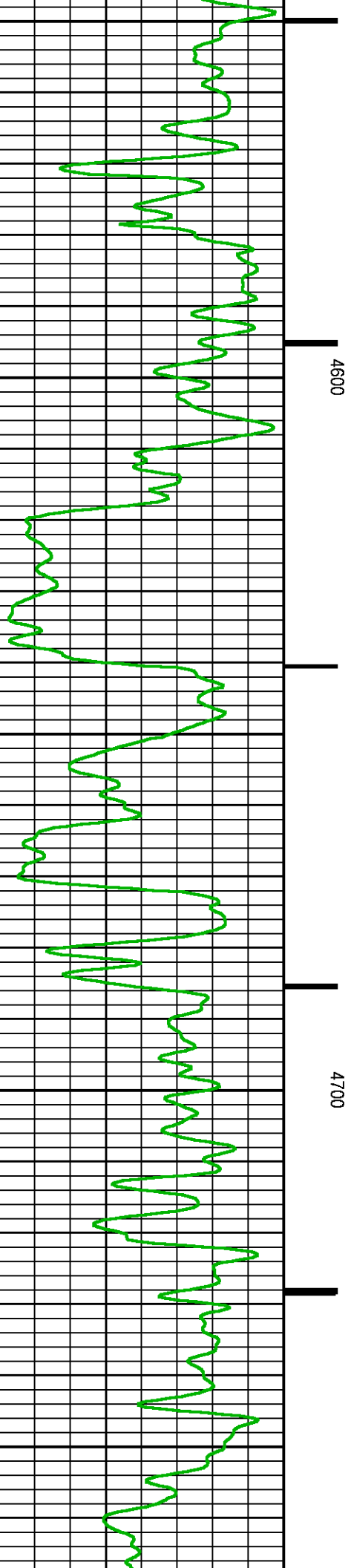
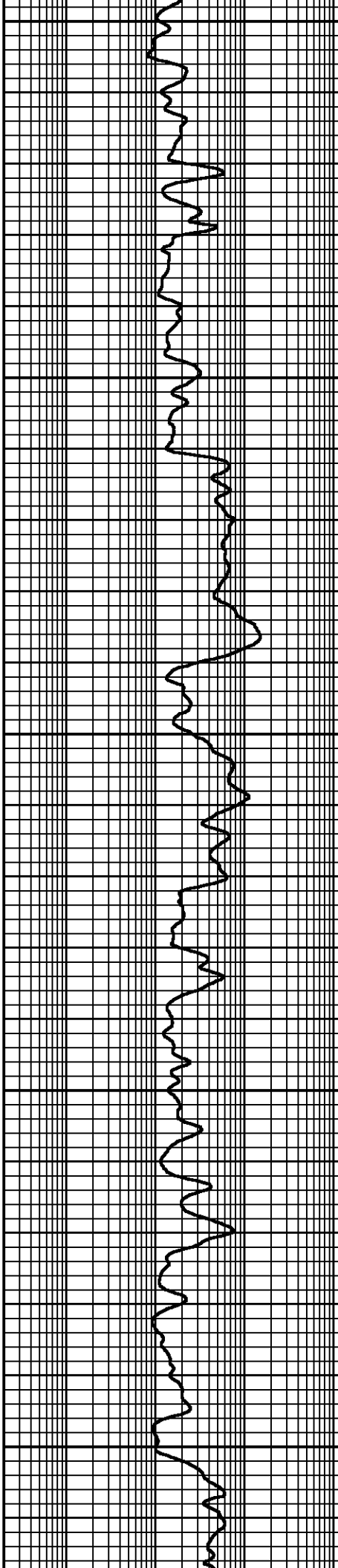
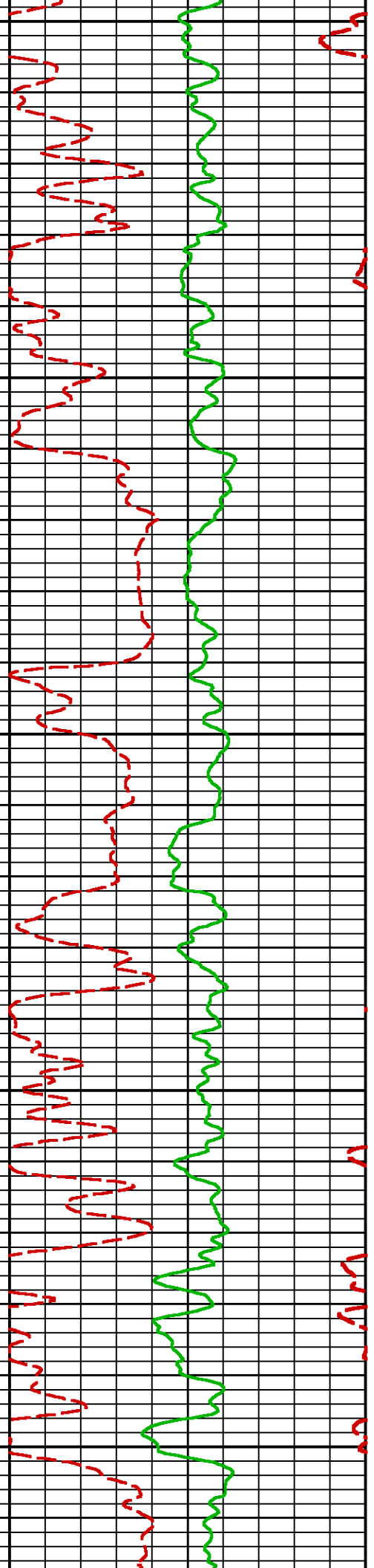
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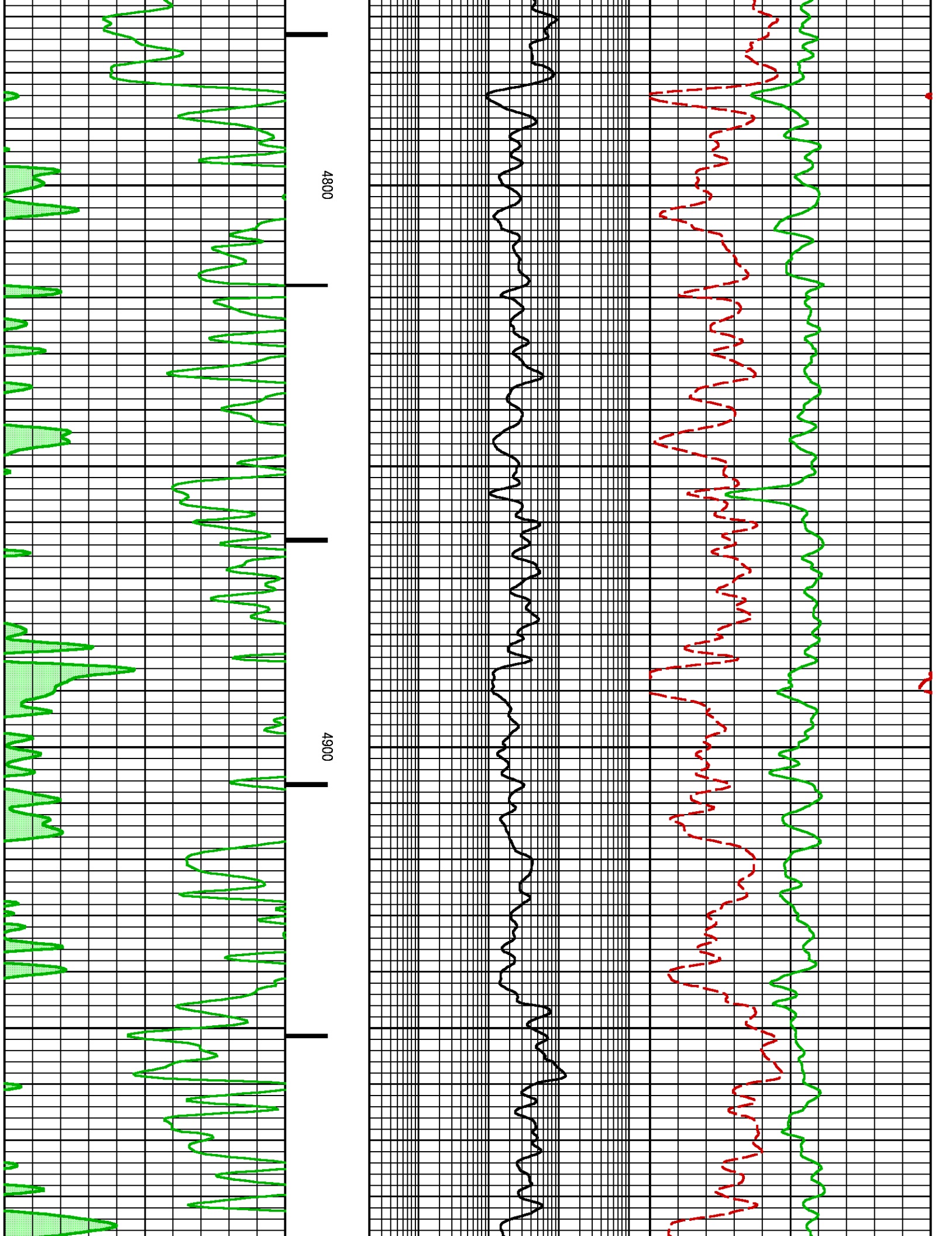
CURVE MEASURE POINT OFFSET

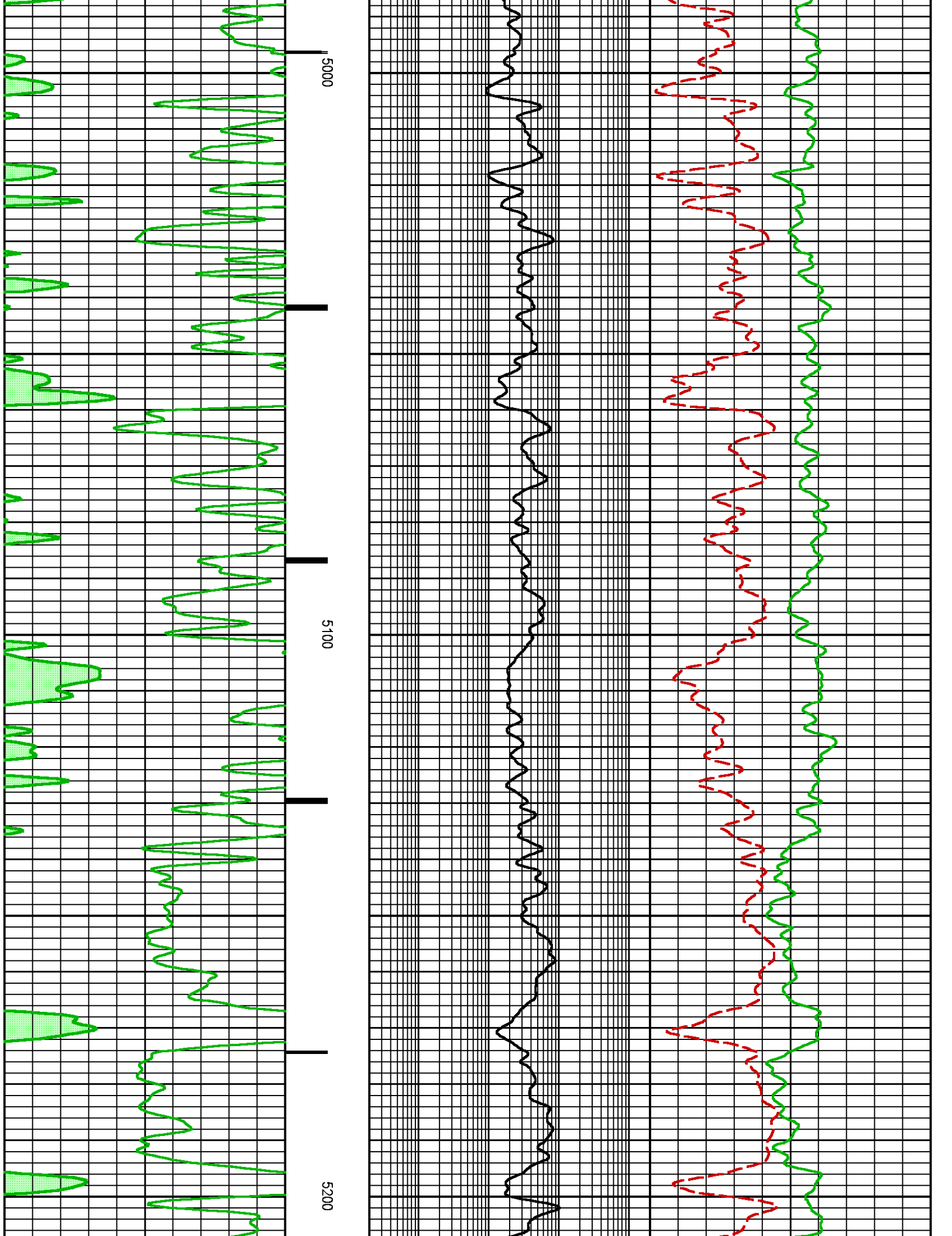
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNCF	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

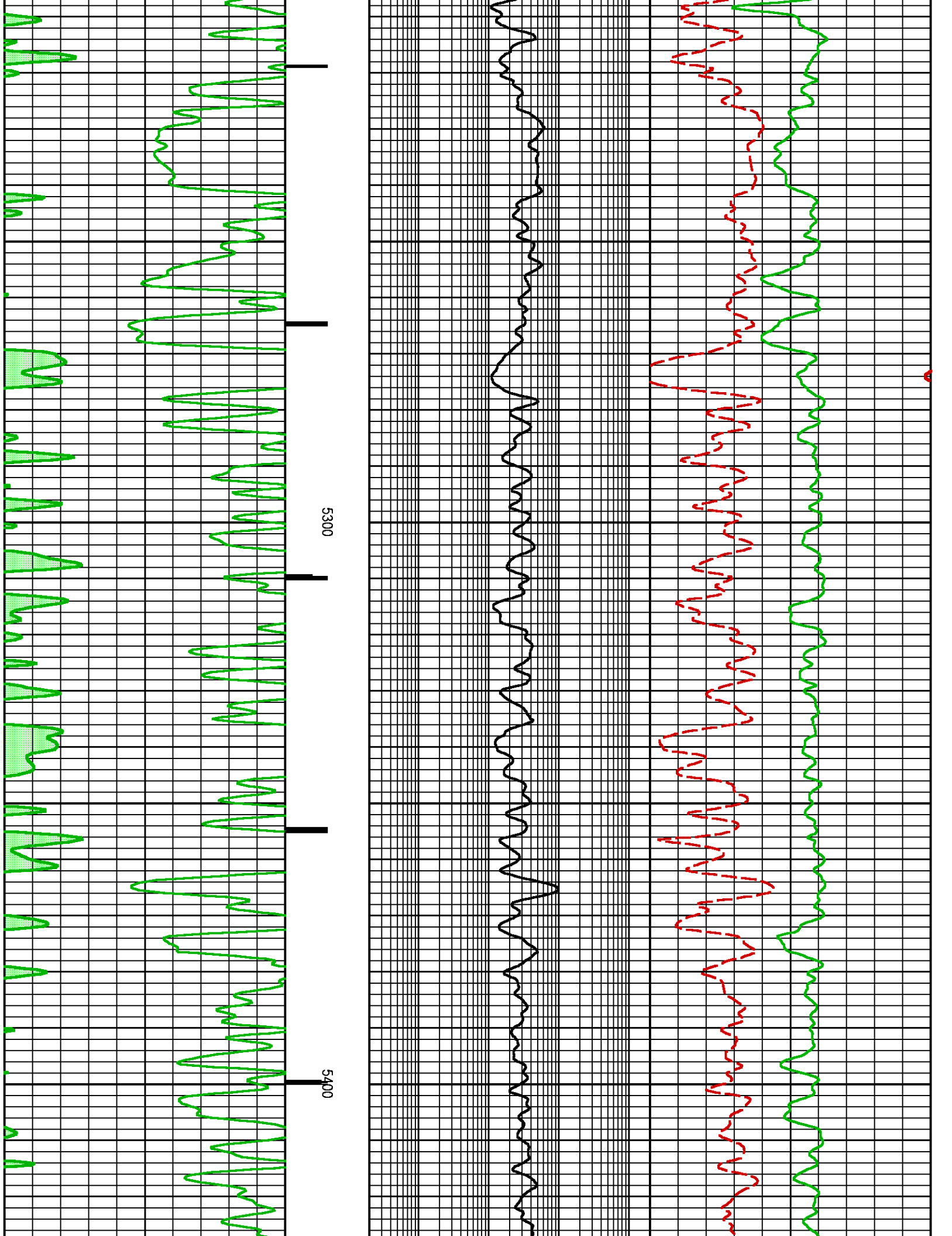
Project : NA

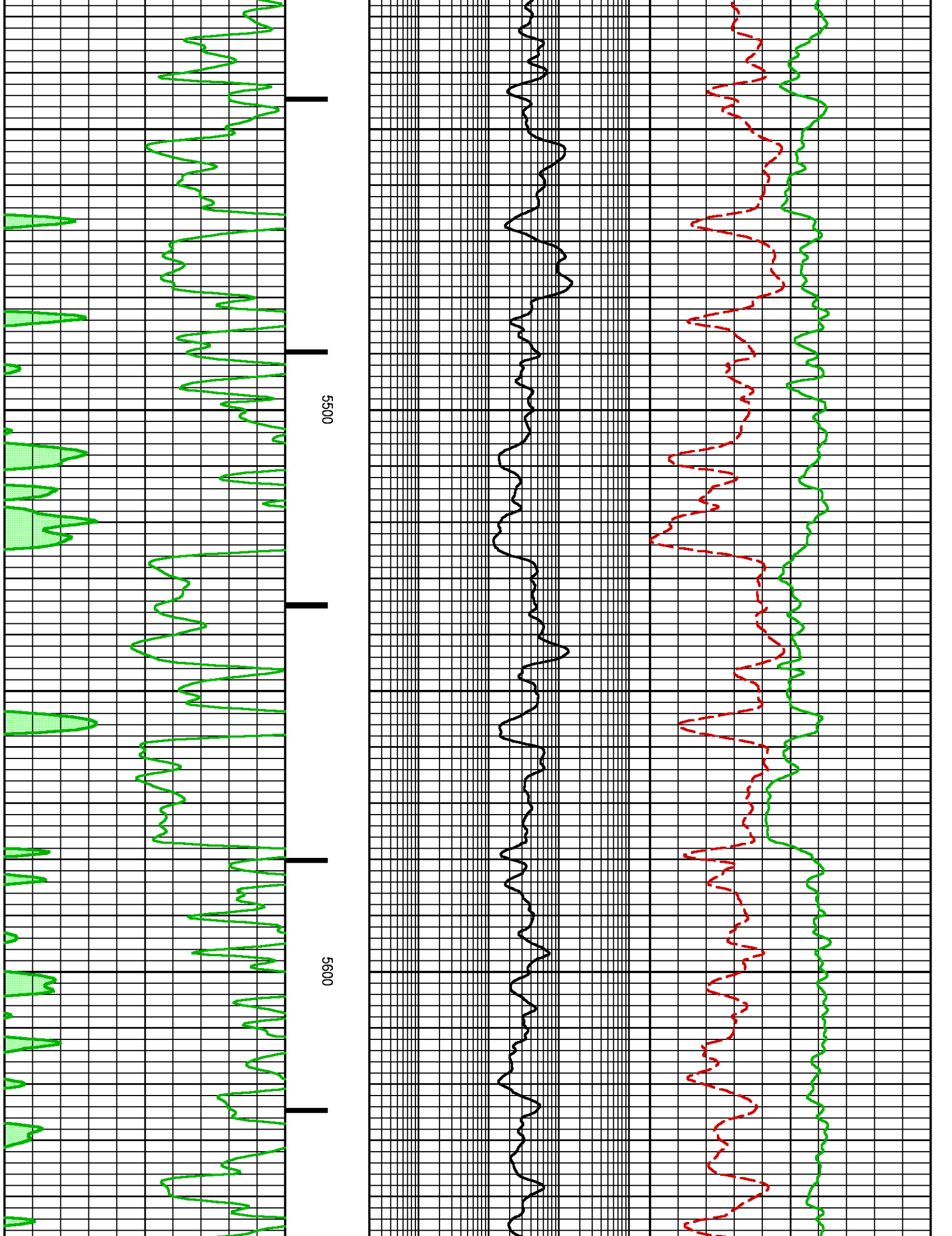


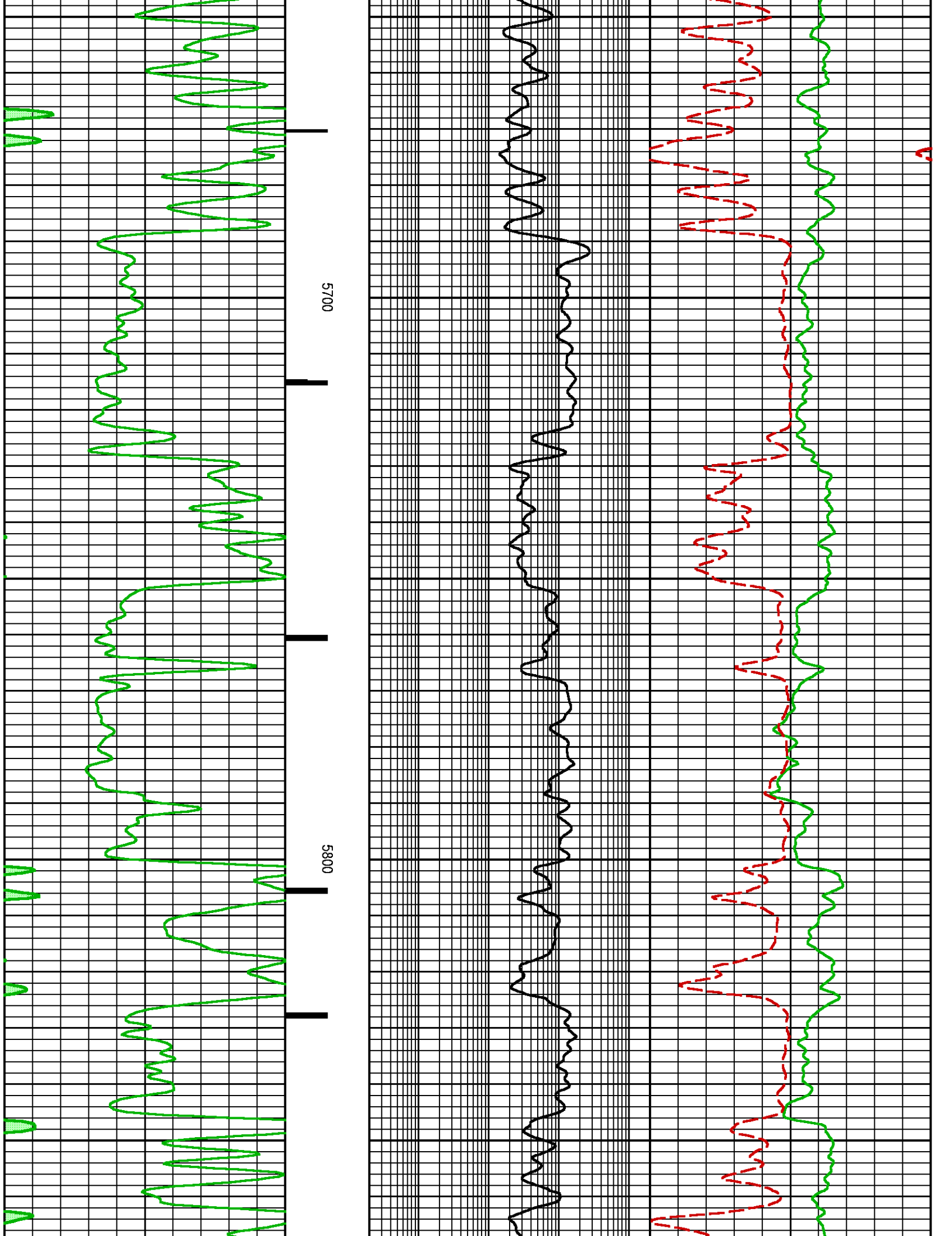


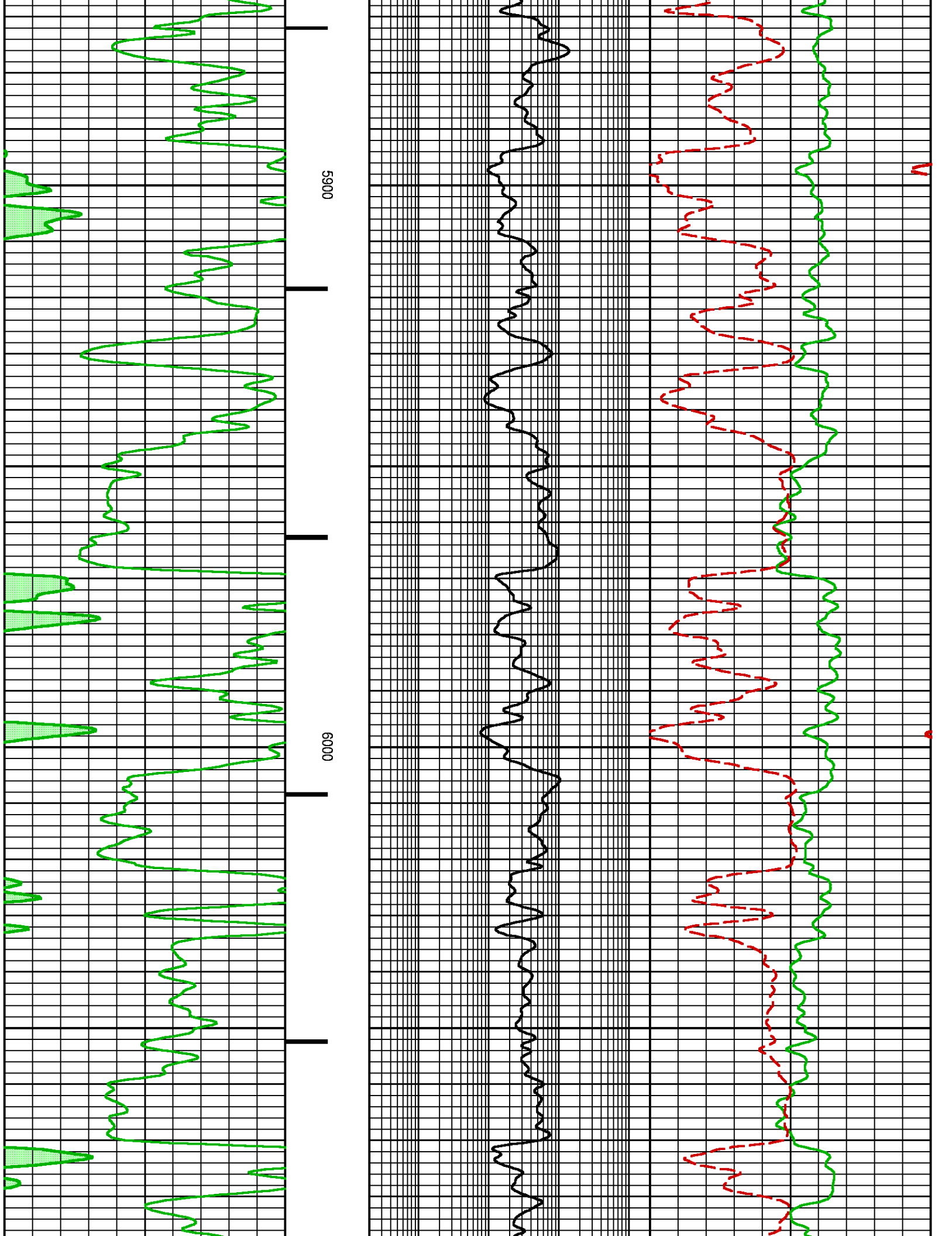


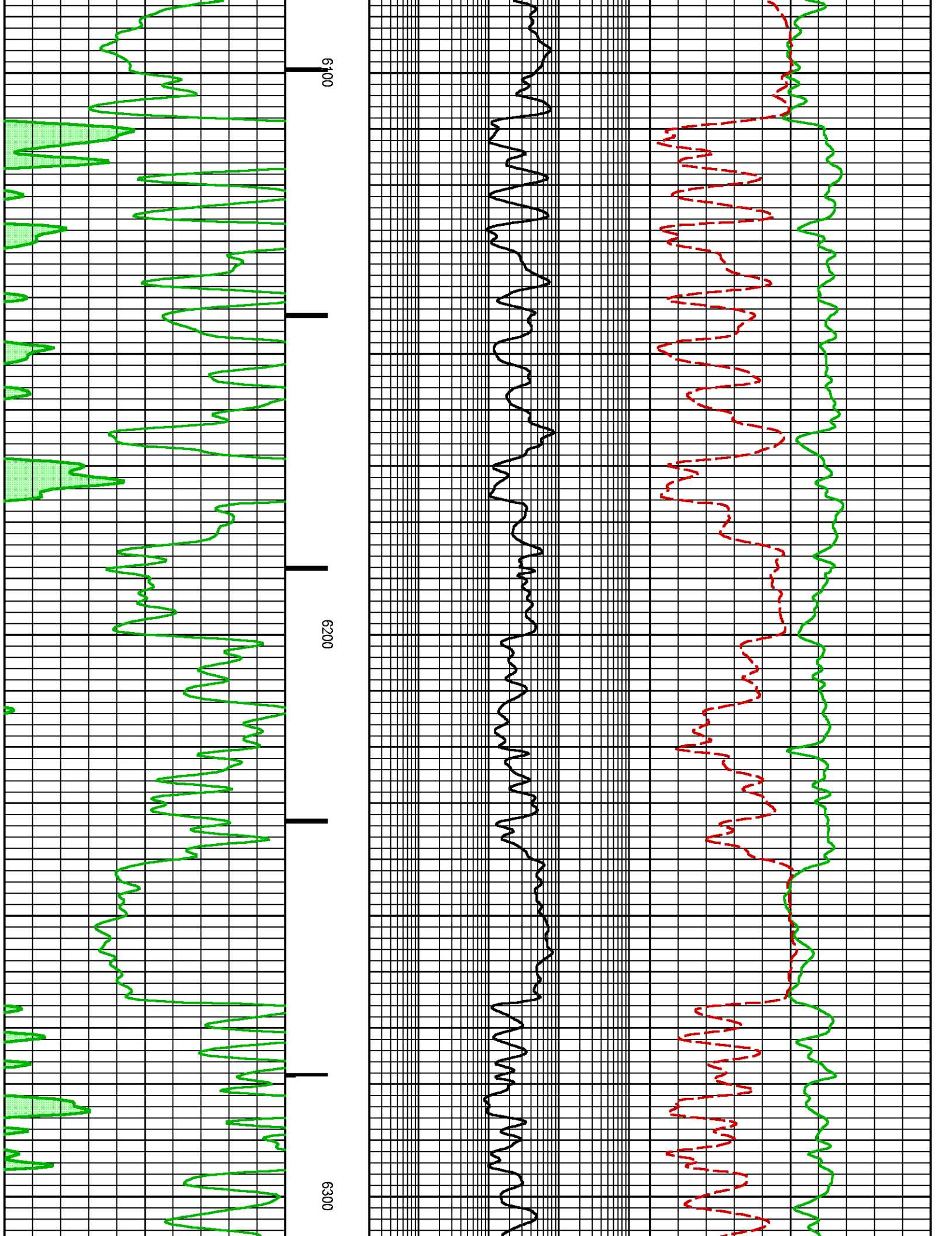


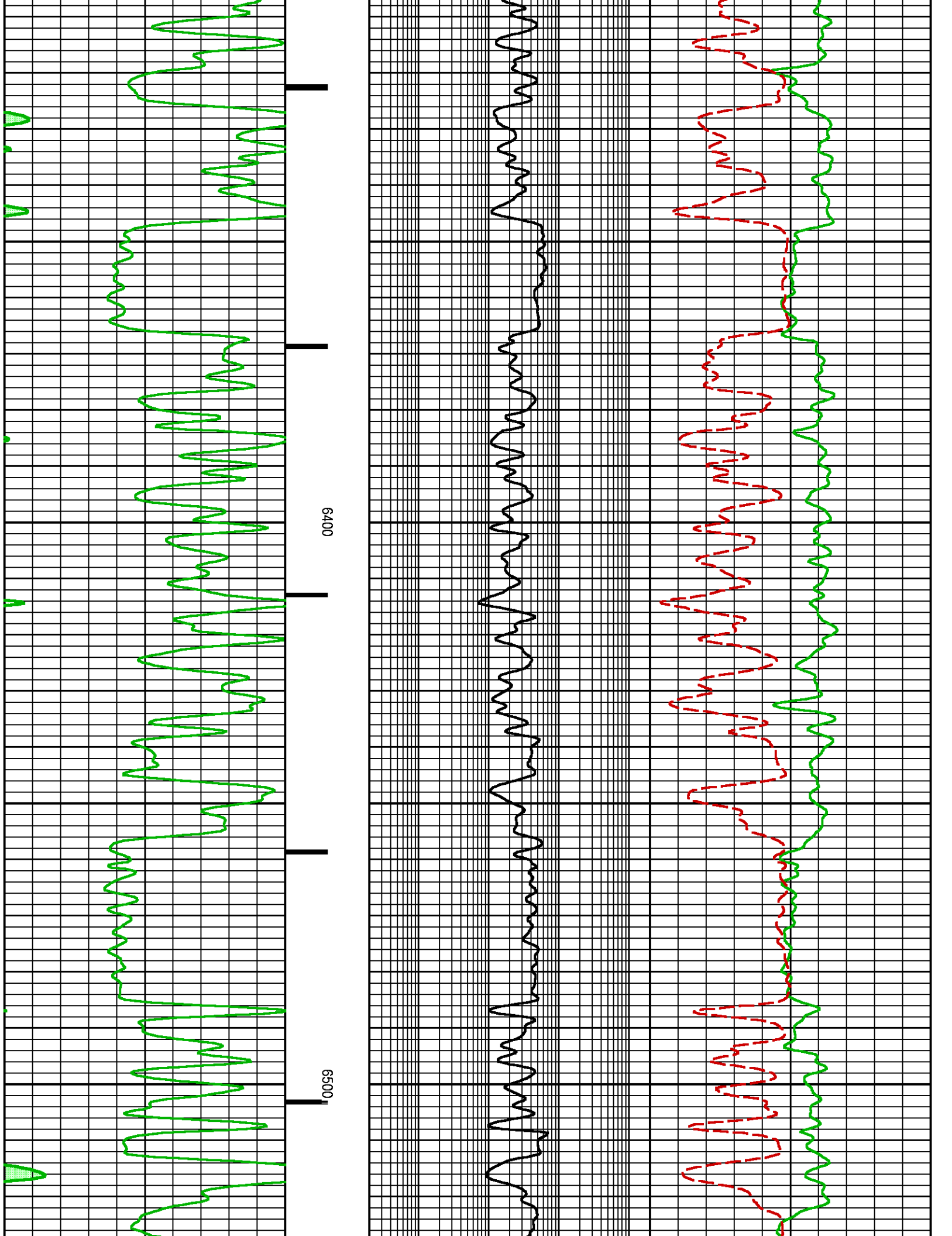


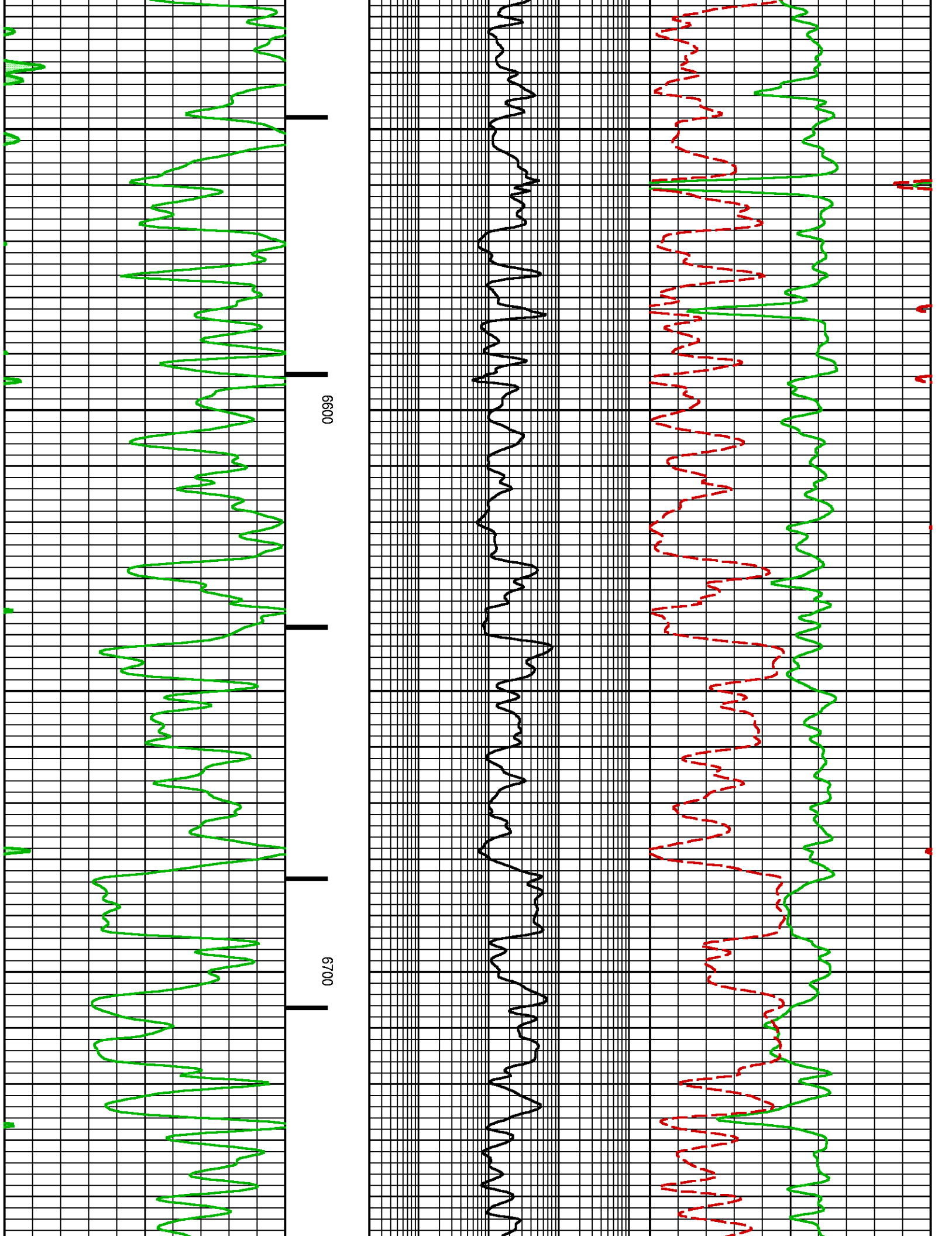


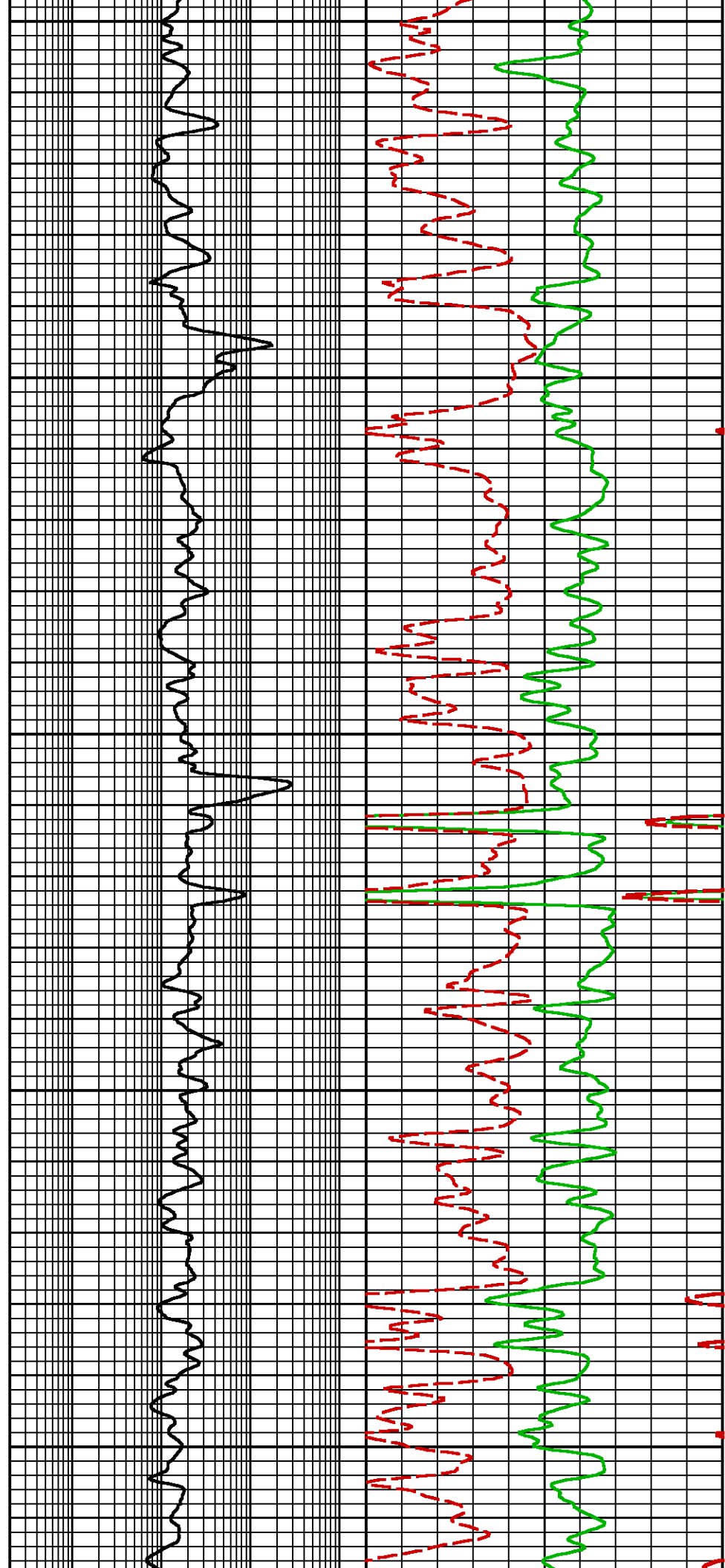
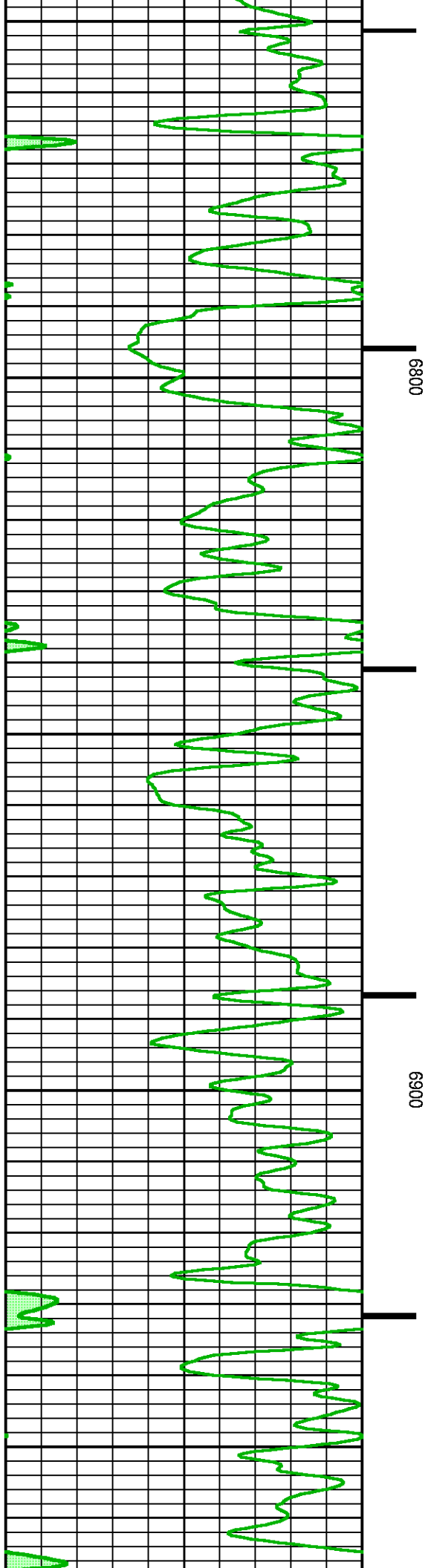


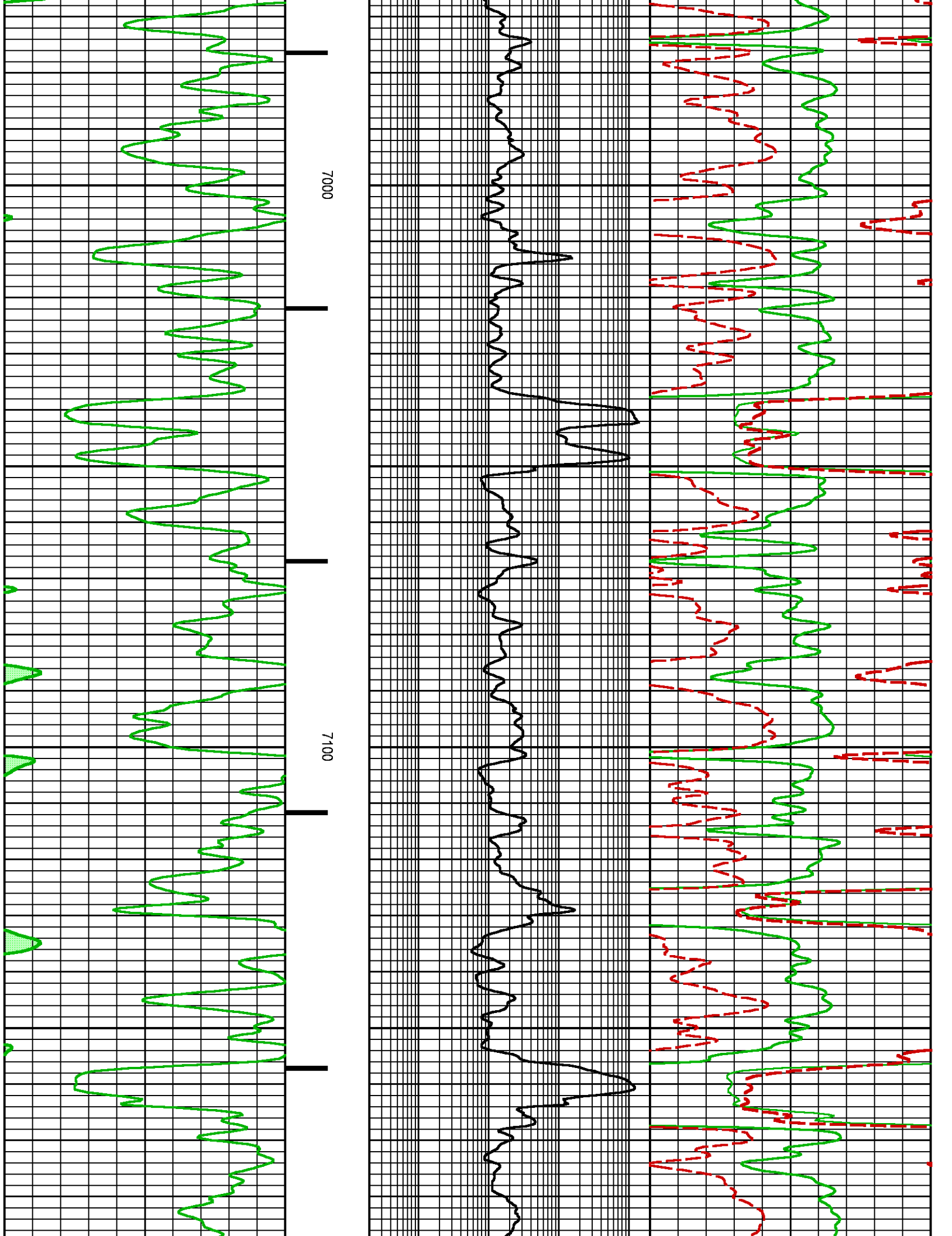


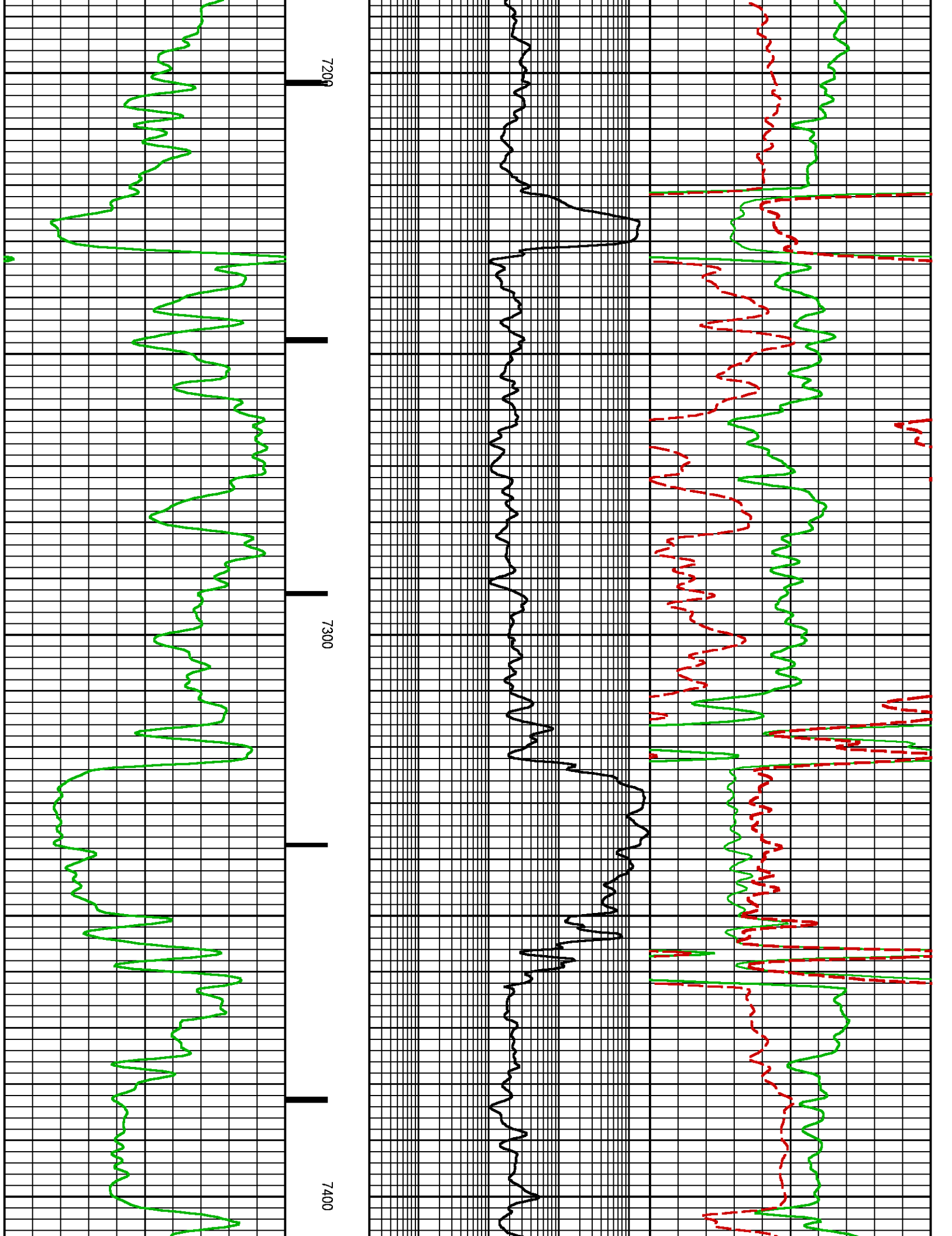


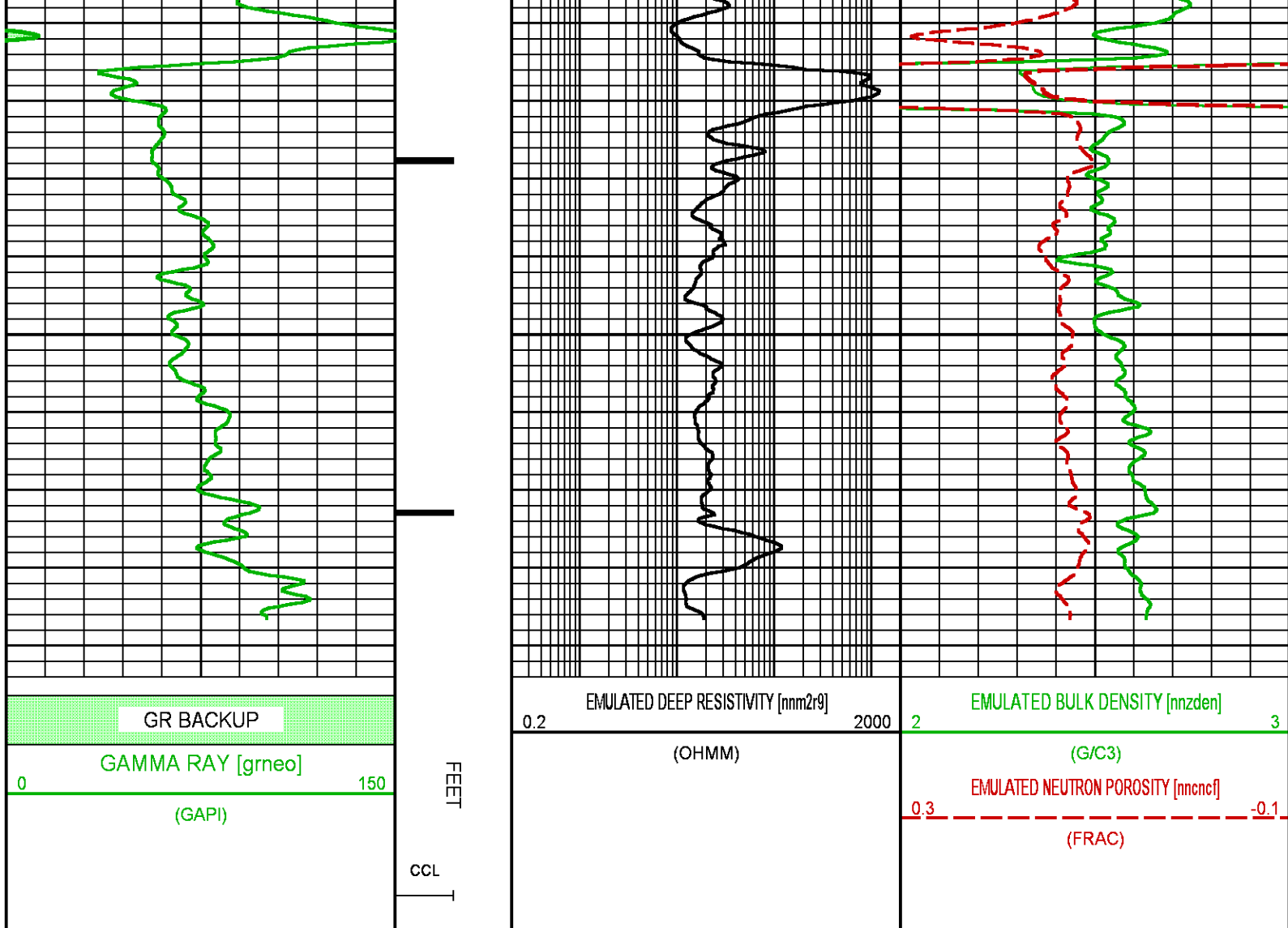














 	COMPANY <u>LARAMIE ENERGY LLC</u> WELL <u>NICHOLS 0994-24-05E</u> FIELD <u>VEGA</u> COUNTY <u>MESA</u> STATE <u>COLORADO</u>	FILE NO: <u>30151-01</u> API NO: <u>05077104080000</u>	
	LOCATION: <u>SEE REMARKS SECTION</u>	ELEVATIONS: KB 7161.0 FT DF 7160.0 FT GL 7137.0 FT	
	SEC <u>24</u> TWP <u>9S</u> RGE <u>94W</u>	DATE <u>26-JAN-2018</u>	