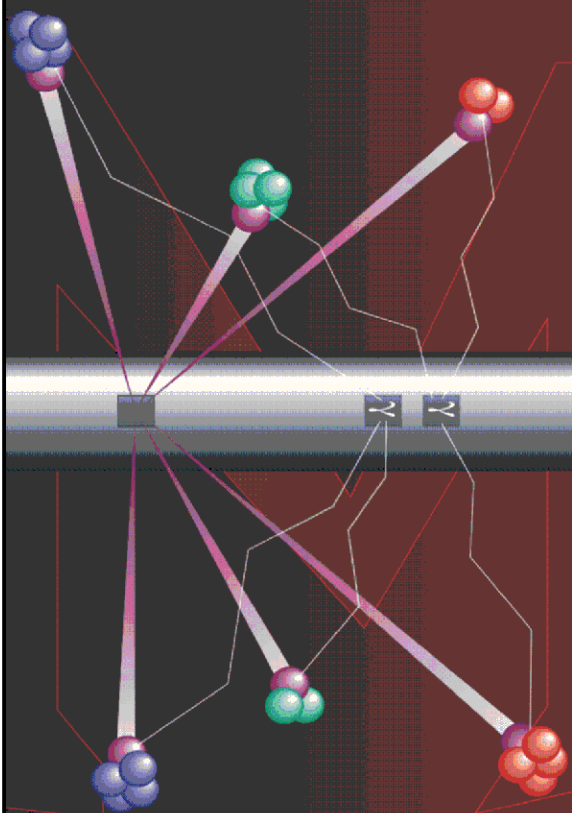


**BAKER  
HUGHES**  
a GE company



# Pulsed Neutron Formation Evaluation



## NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY LLC

WELL NICHOLS 0994-24-11E

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS SECTION

SEC 24 TWP 9S RGE 94W

ELEVATIONS:

KB 7236.0 FT DF GL 7212.0 FT

DATE 27-JUN-2018 ECC CALGARY GEOSCIENCE

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-JUN-2018</u>
FIELD DATA	LOCATION: <u>GRAND JCT.</u>		ENGINEER: <u>M.BAUKA/US136067</u>	DATE: <u>27-JUN-2018</u>
FROM	TO			
<u>2254 FT</u>	<u>7526 FT</u>			

### REMARKS

LOCATION:  
SHL: 2265' FNL & 2796' FWL  
BHL: 2523' FNL & 1444' FEL

TRAINING WELL:  
NICHOLS 0994-24-06W

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

BONG LOG IS DEPTH REFERENCE LOG

# NEO RESULTS FOR NICHOLS 0994-24-11E (G-SAND)

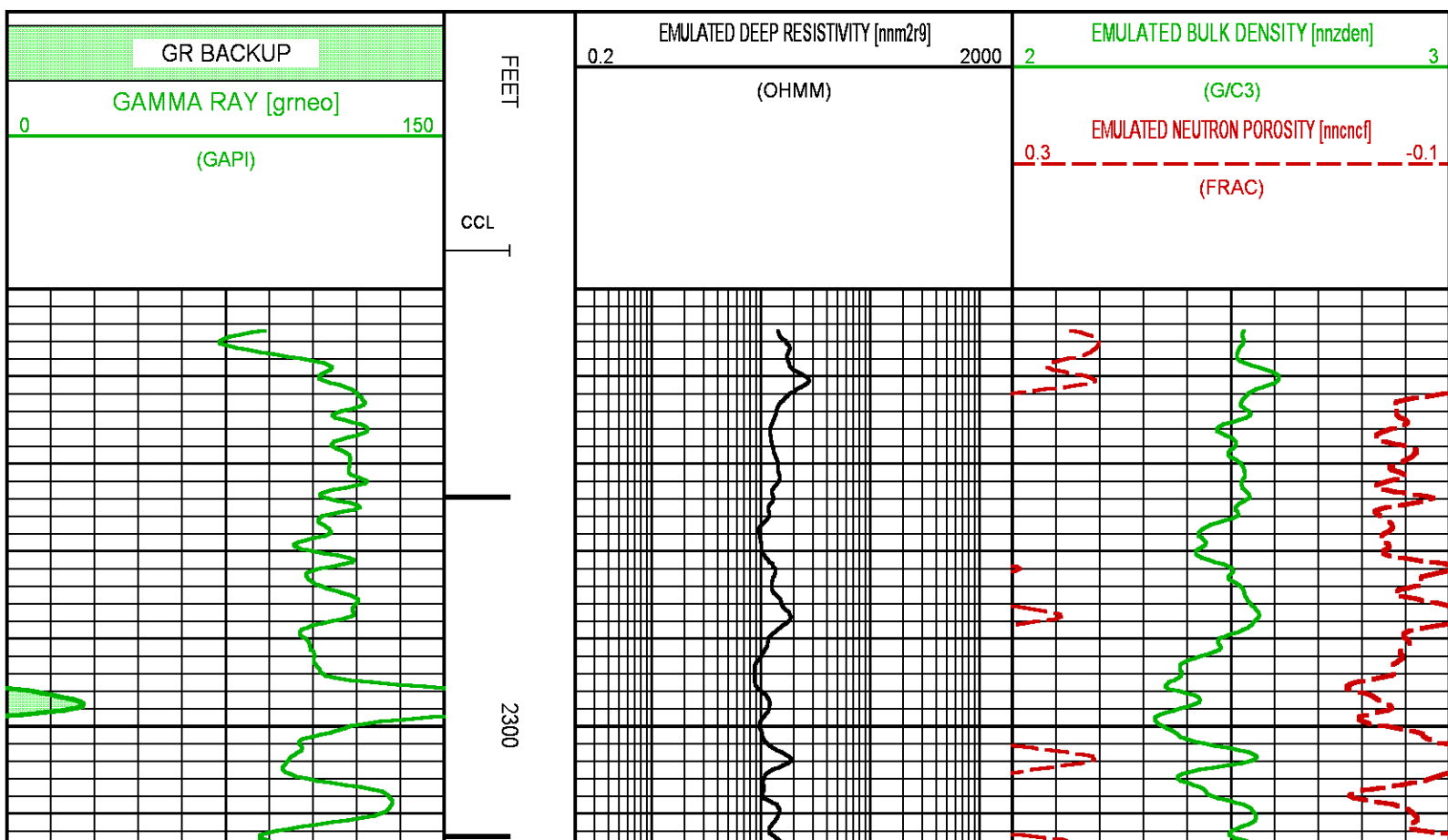
ECLIPS ECPlot from ECLIPS 7.0 WFM 6.0.7905.1 Wed 08/23/2017 09:02:35.01

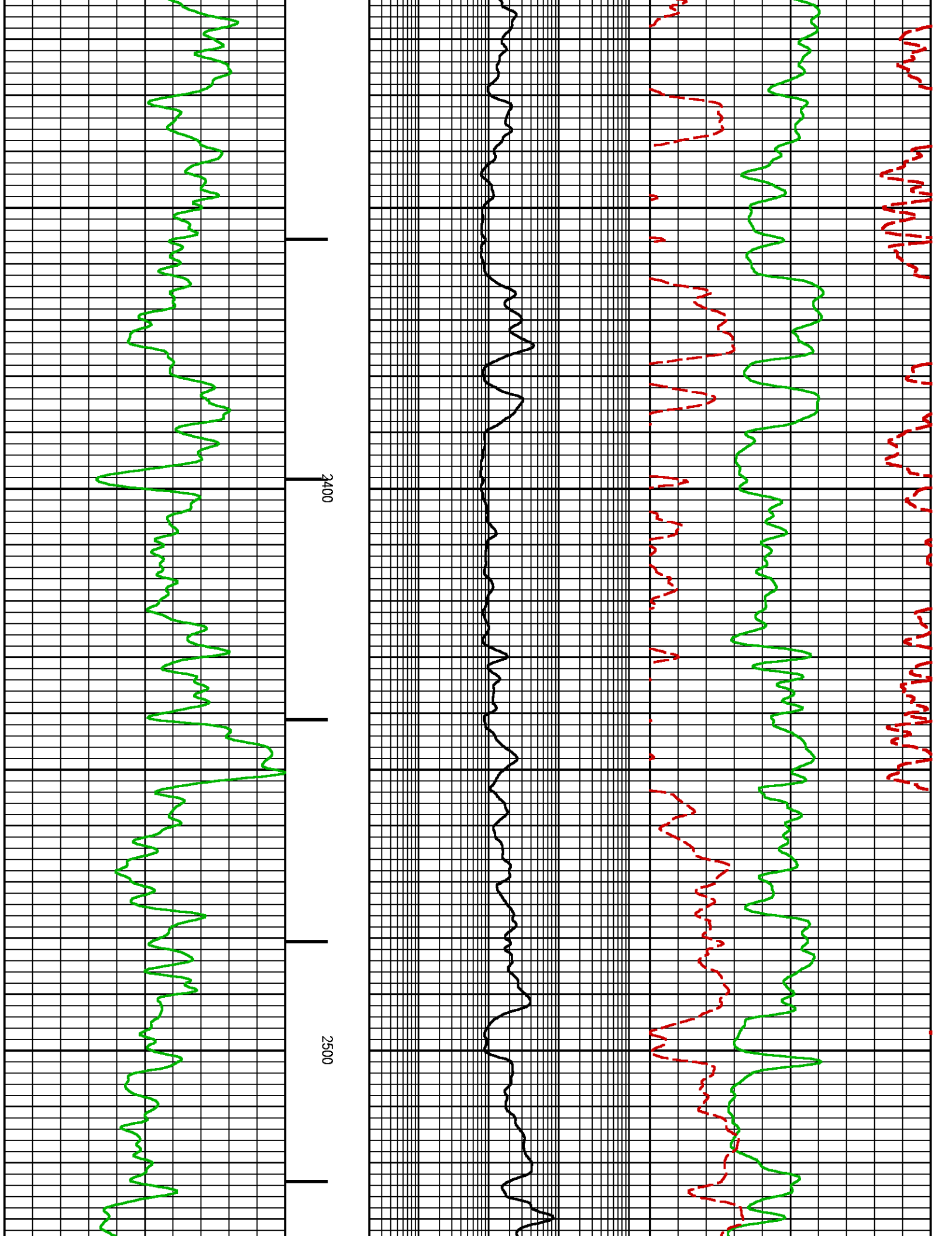
Plotted: Fri Jun 29 11:06:09 2018

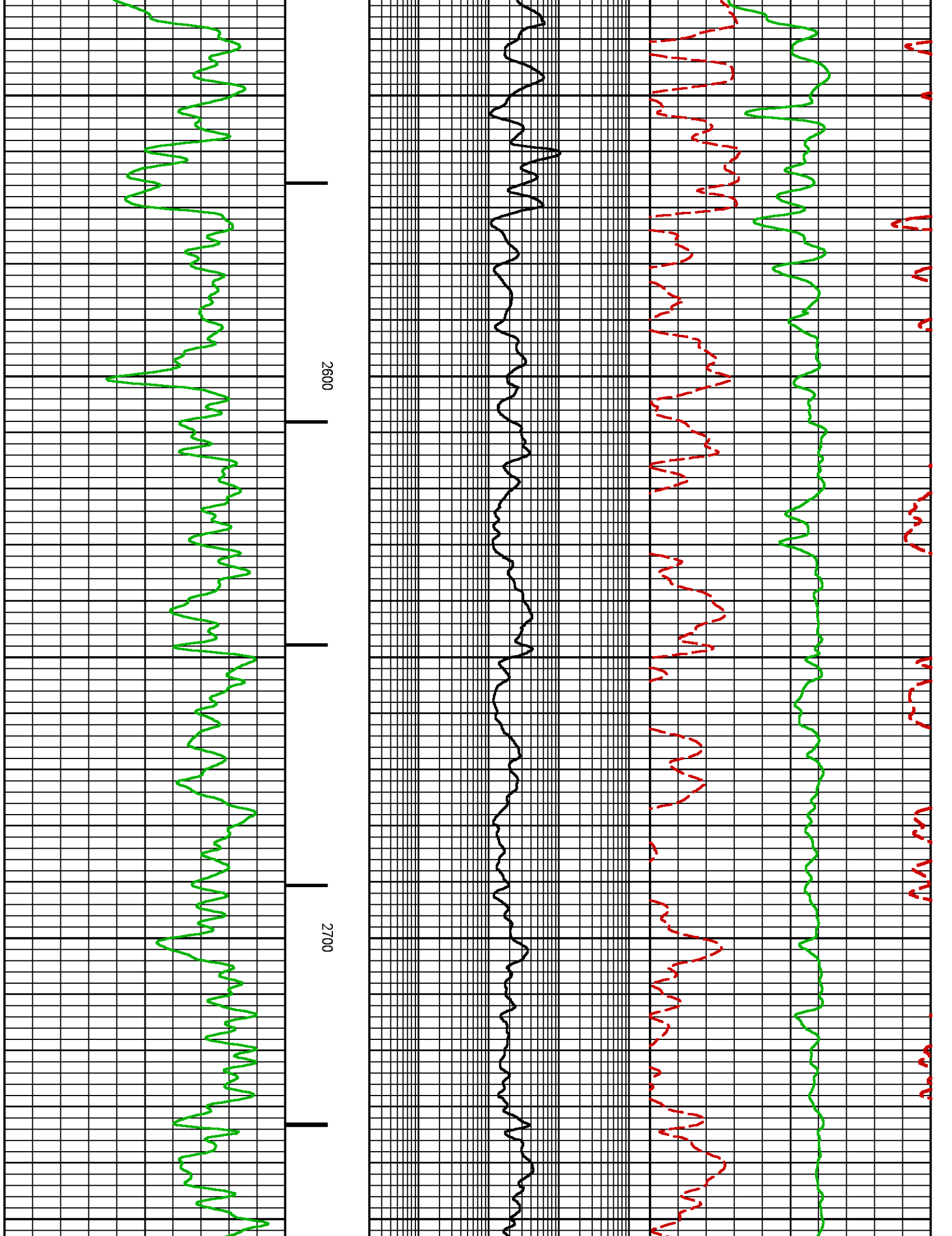
## CURVE MEASURE POINT OFFSET

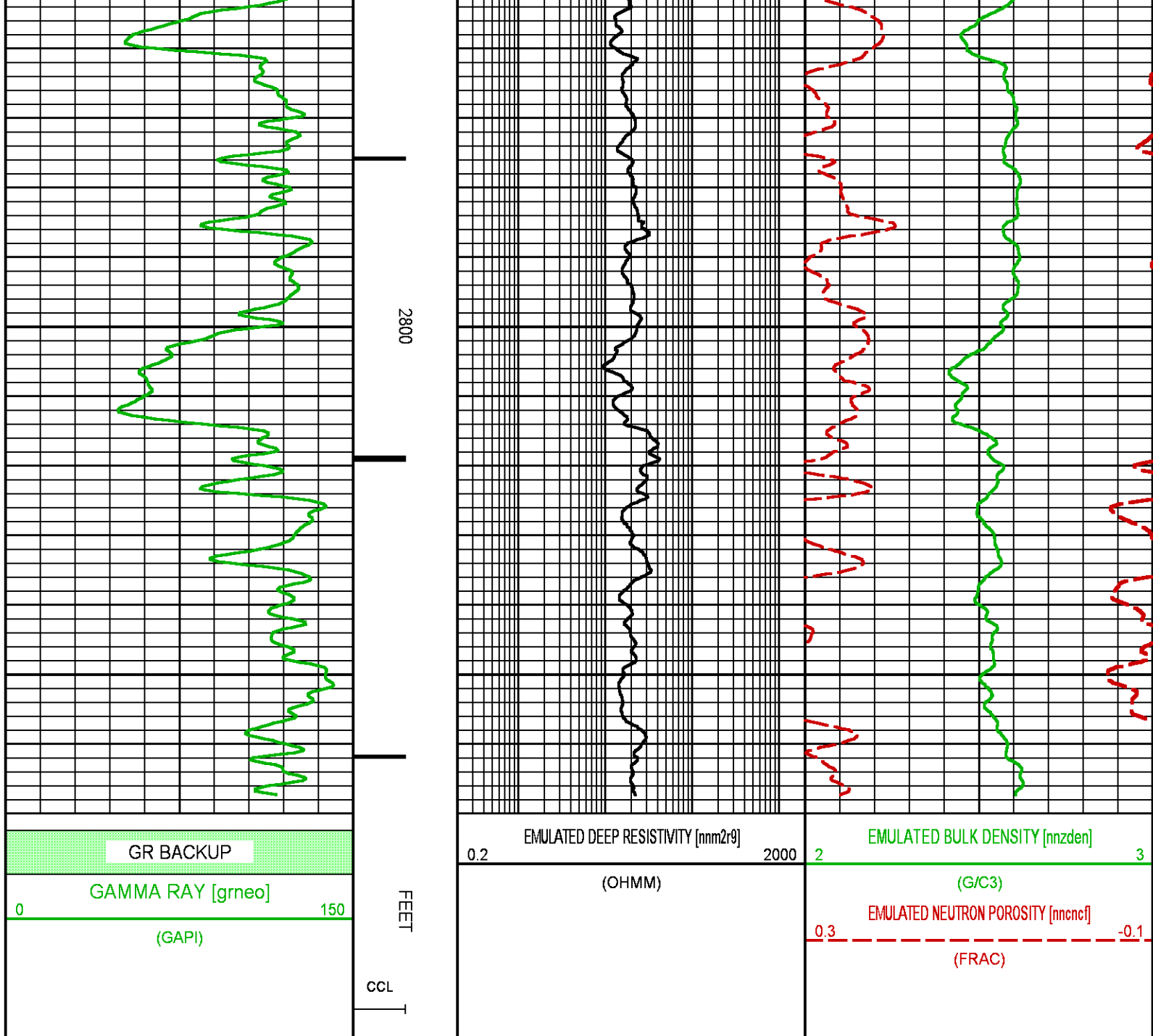
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNCf	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

**Project** : NA  
**User** : kotoale  
**Presentation** : BHI1F65XZ1:d:\Ape\_Projects\LARAMIE\_NICHOLS\_0994\_24\_11E\_NEO\NEO\_PRESENTATION\_LARAMIE\_G-Sand.pdf [5"/100' Scale]  
**Plot Interval** : 2250 - 2870 Feet  
**Data File 1** : F1 : BHI1F65XZ1:D:\Ape\_Projects\LARAMIE\_NICHOLS\_0994\_24\_11E\_NEO\Merged\_Set\_Final.xtf  
**Created On** : N/A  
**Company** : LARAMIE ENERGY LLC  
**Well** : NICHOLS 0994-24-11E  
**Field** : VEGA  
**File Interval** : 2254.75 - 7526.75 Feet  
**OCT** : NA









## NEO RESULTS FOR NICHOLS 0994-24-11E(MAIN)

ECLIPS ECPLLOT from ECLIPS 7.0 WFM 6.0.7905.1 Wed 08/23/2017 09:02:35.01

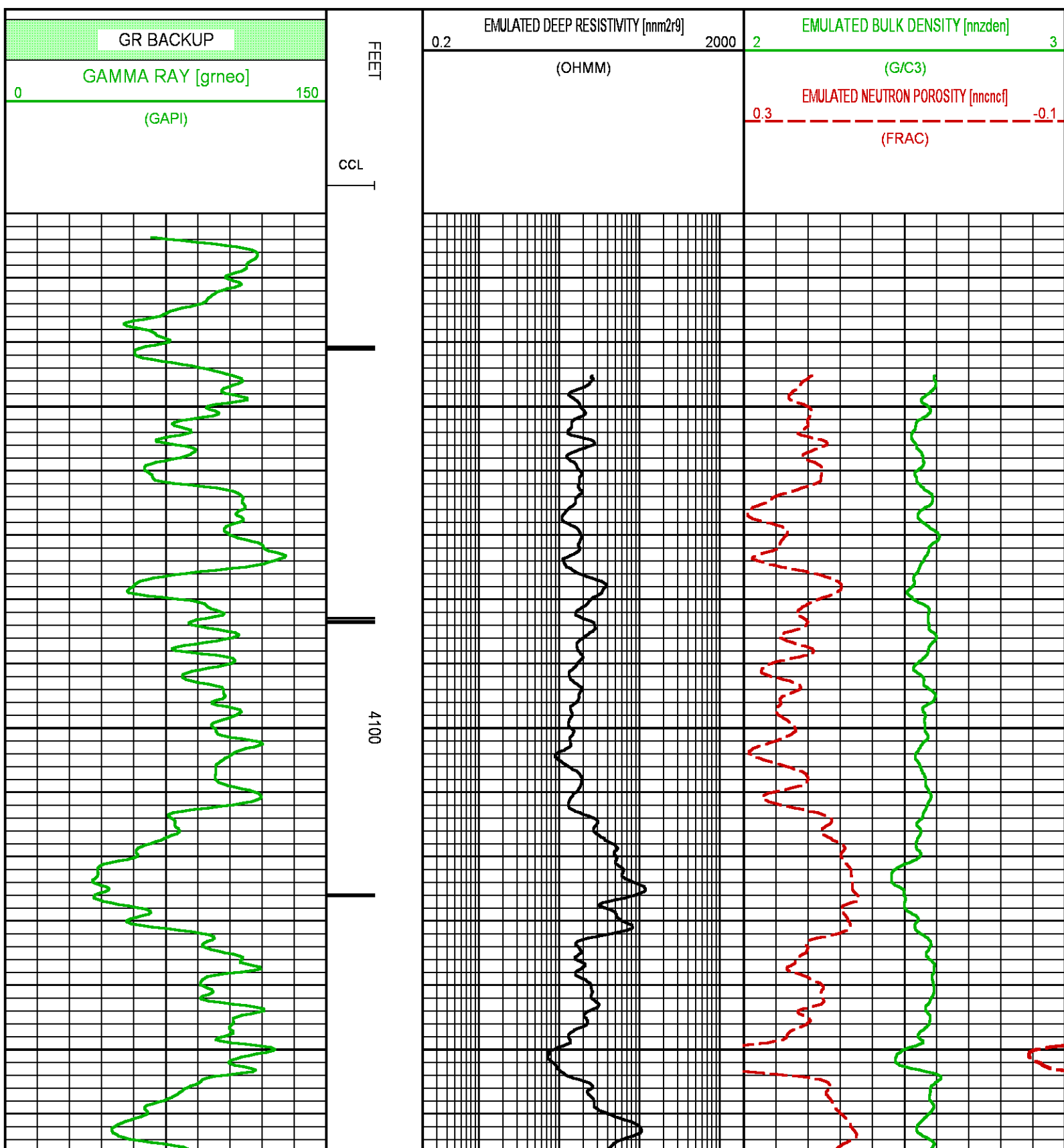
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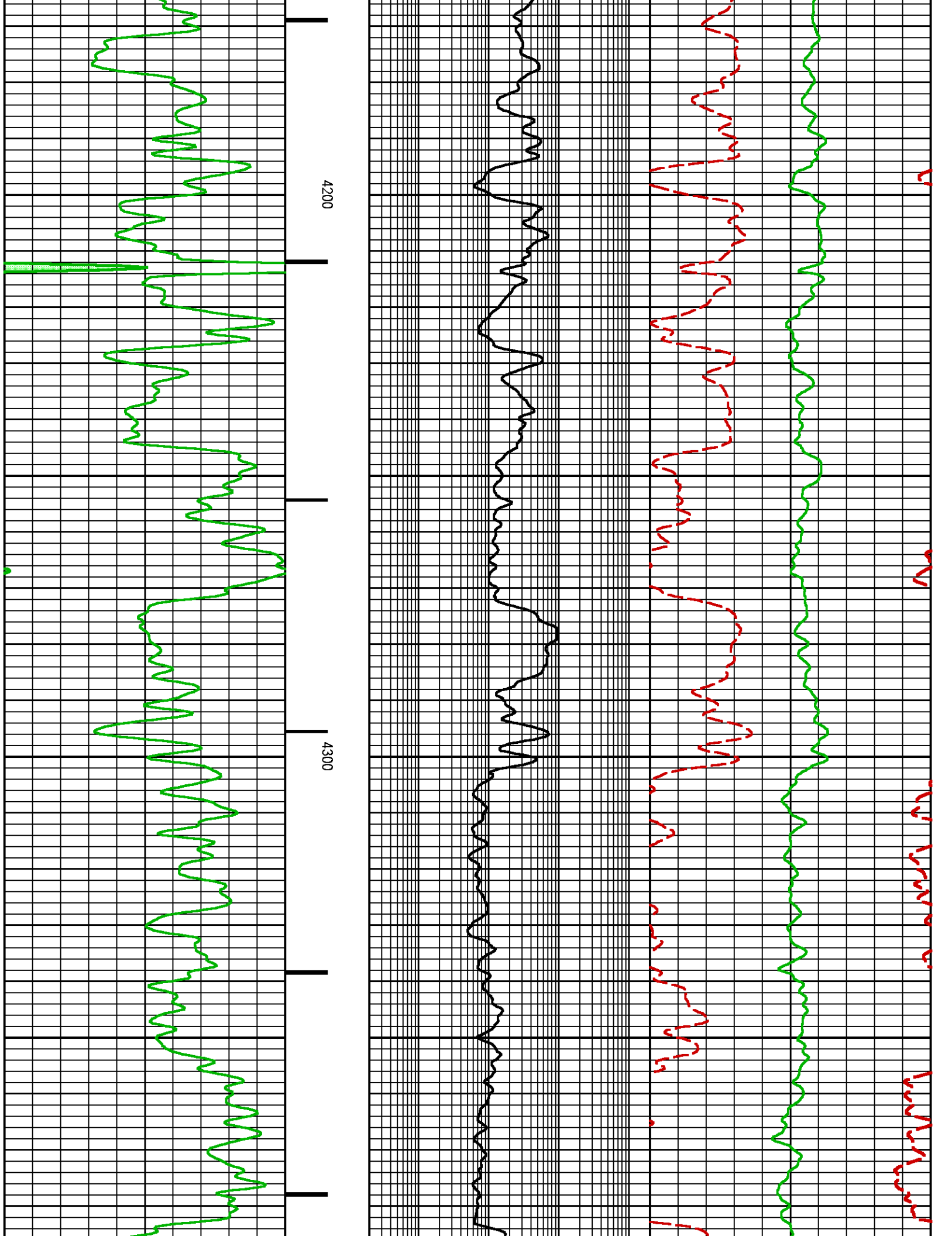
### CURVE MEASURE POINT OFFSET

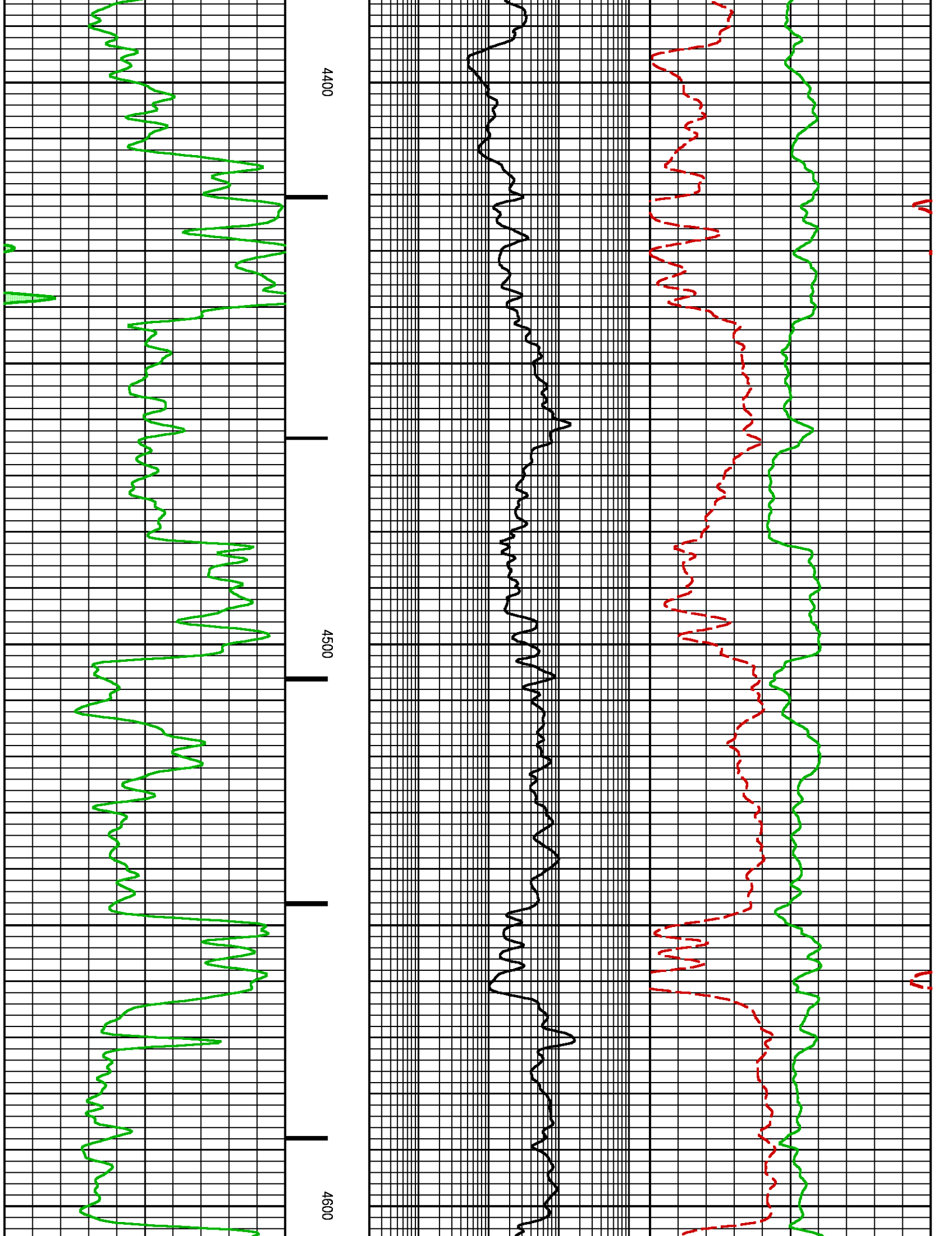
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNCF	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

Project : NA  
User : kotoale  
Presentation : BH1F65XZ1:d:\Ape Projects\LARAMIE NICHOLS 0994\_24\_11E\_NEO\NEO PRESENTATION LARAMIE MAIN.pdf [5"/100' Scale]

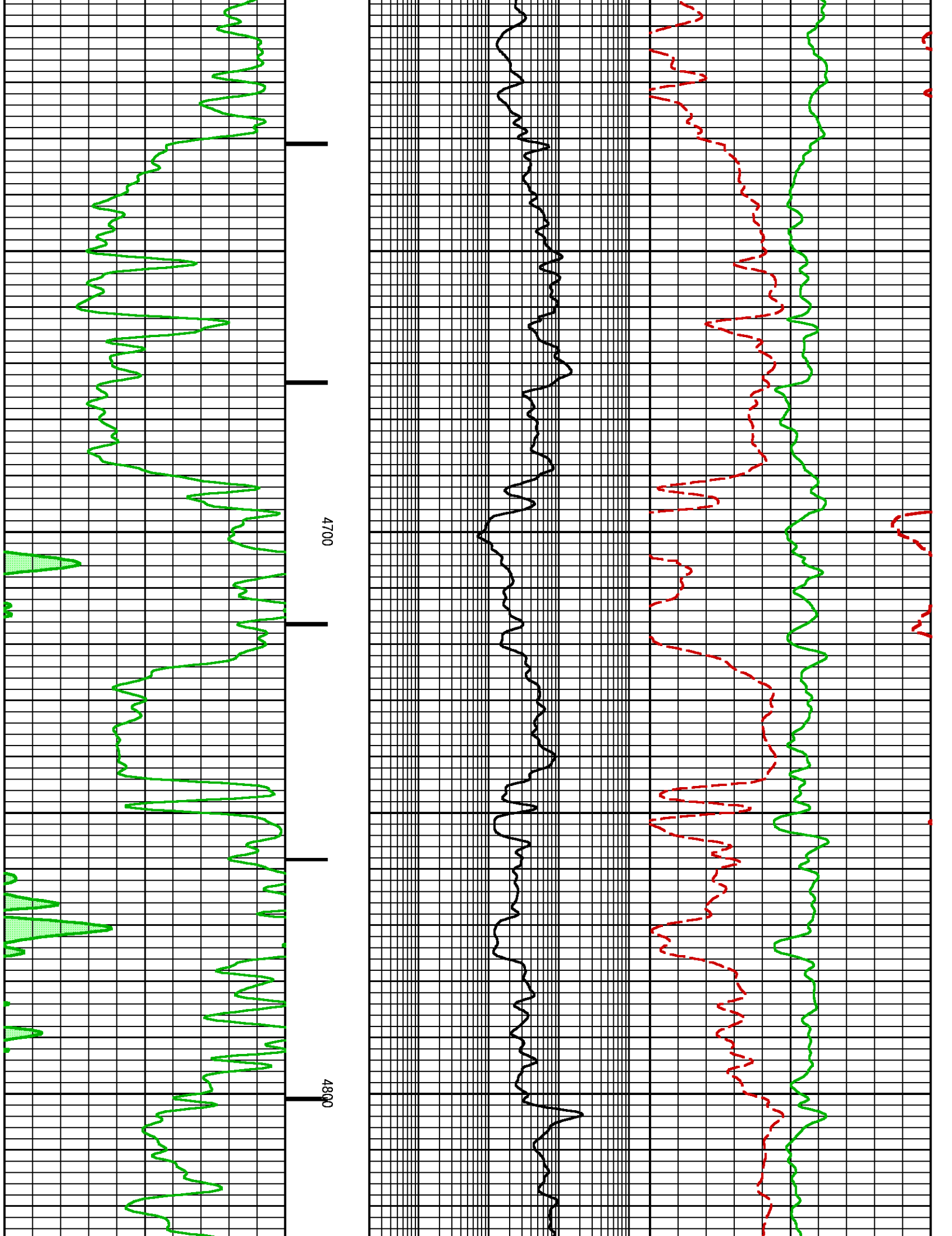
Data File 1 : F1 : BHI1F65XZ1:D:\Ape\_Projects\LARAMIE\_NICHOLS\_0994\_24\_11E\_NEO\Merged\_Set\_Final.xtf  
Created On : N/A  
Company : LARAMIE ENERGY LLC  
Well : NICHOLS 0994-24-11E  
Field : VEGA  
File Interval : 2254.75 - 7526.75 Feet  
OCT : NA

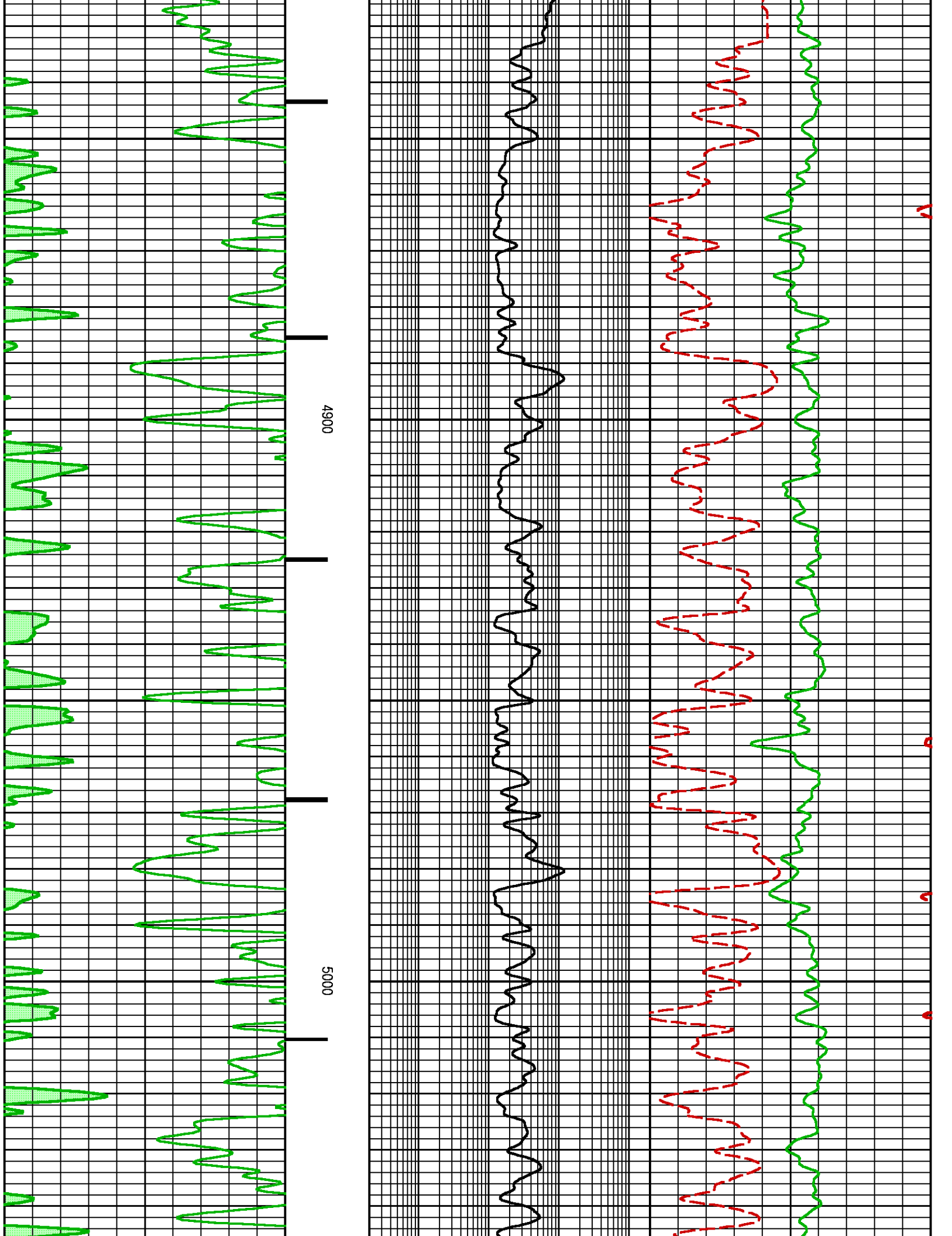


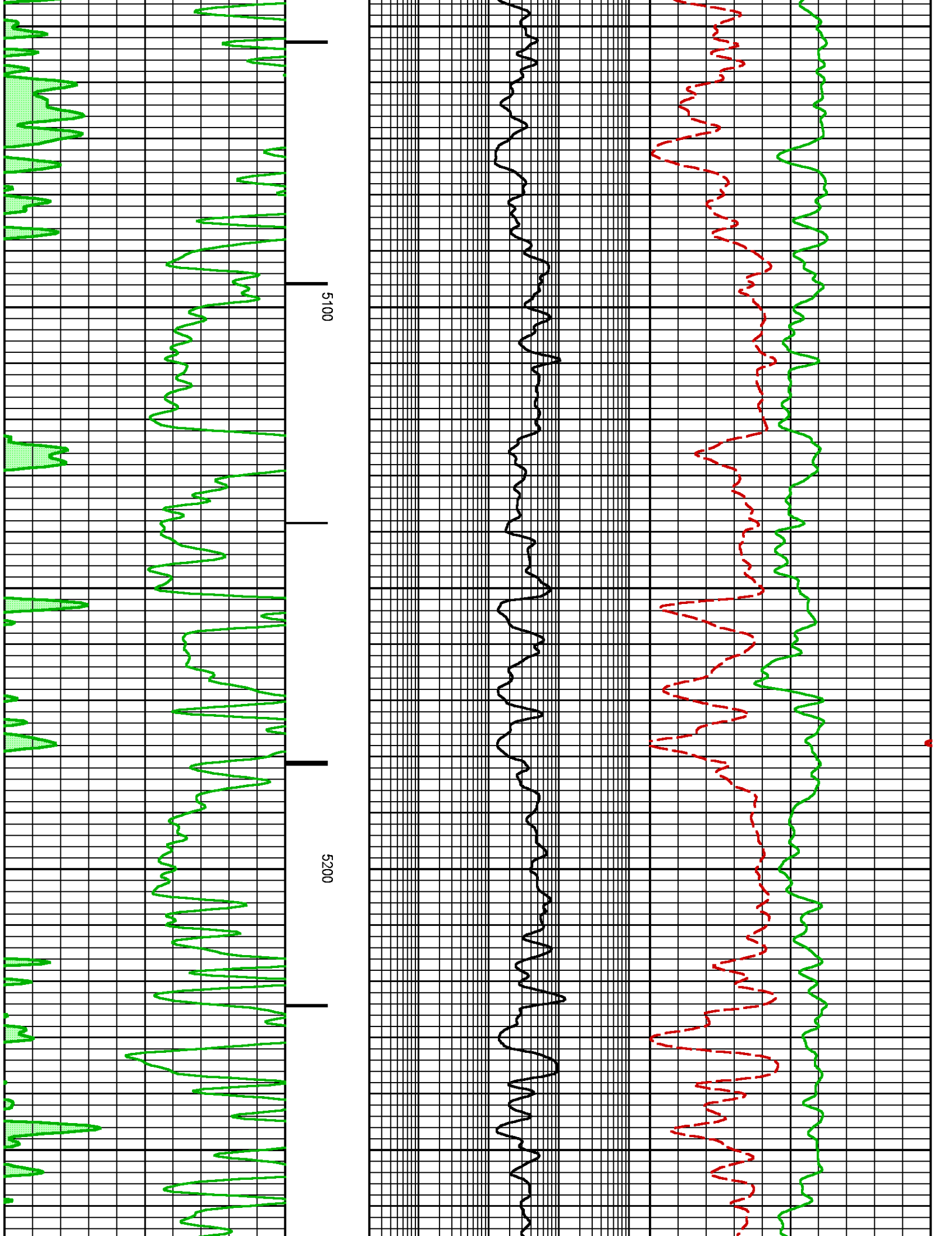


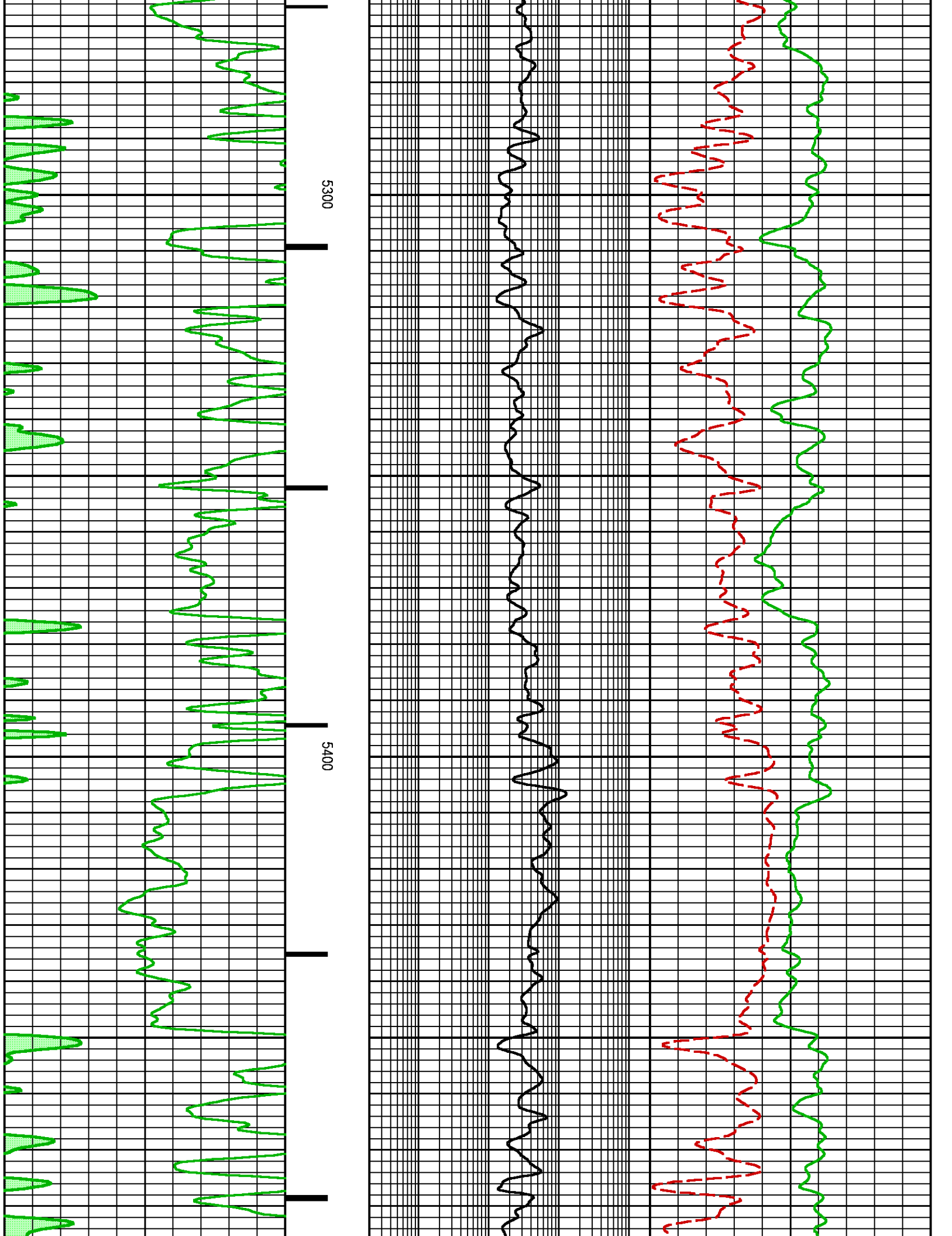


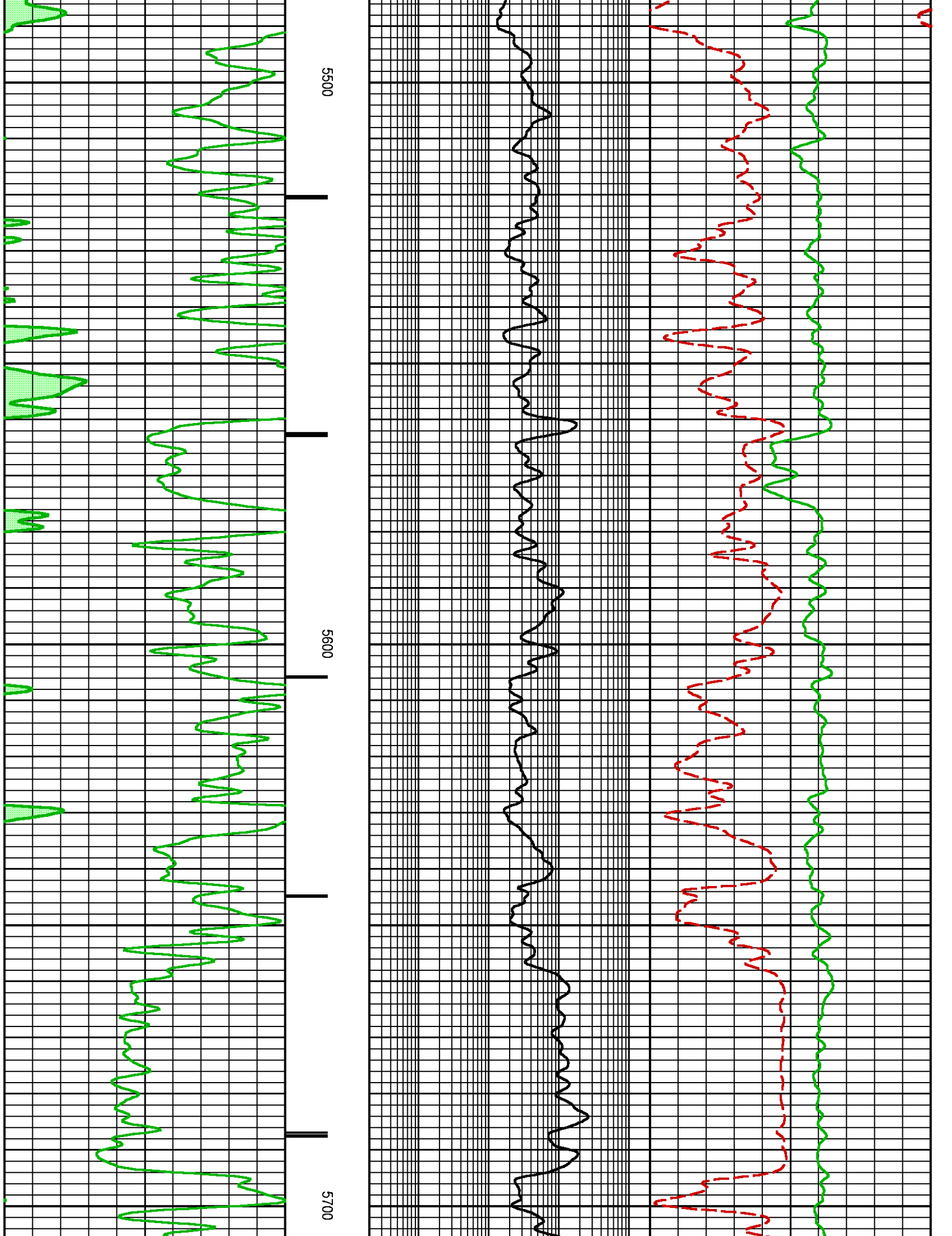


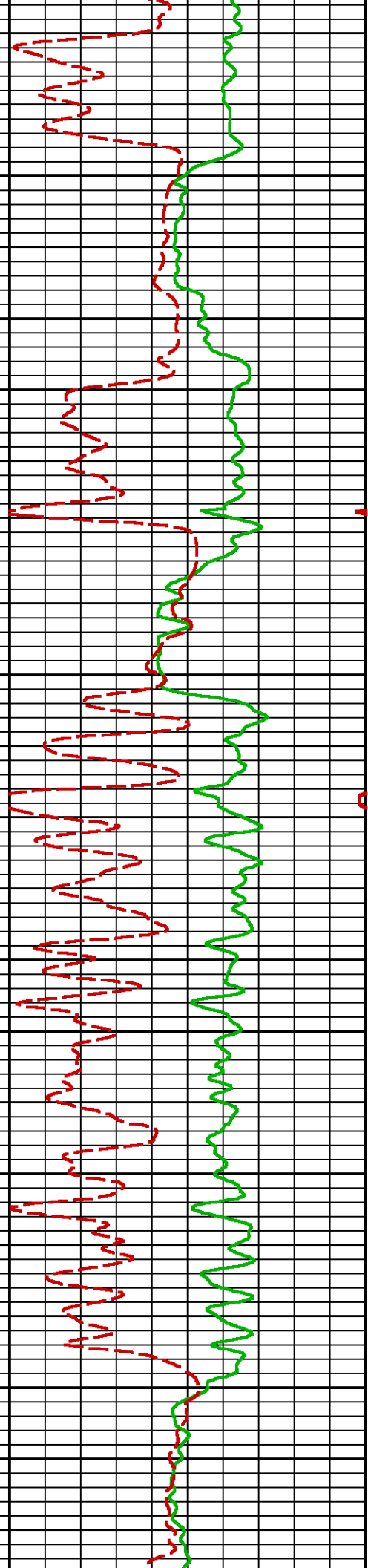
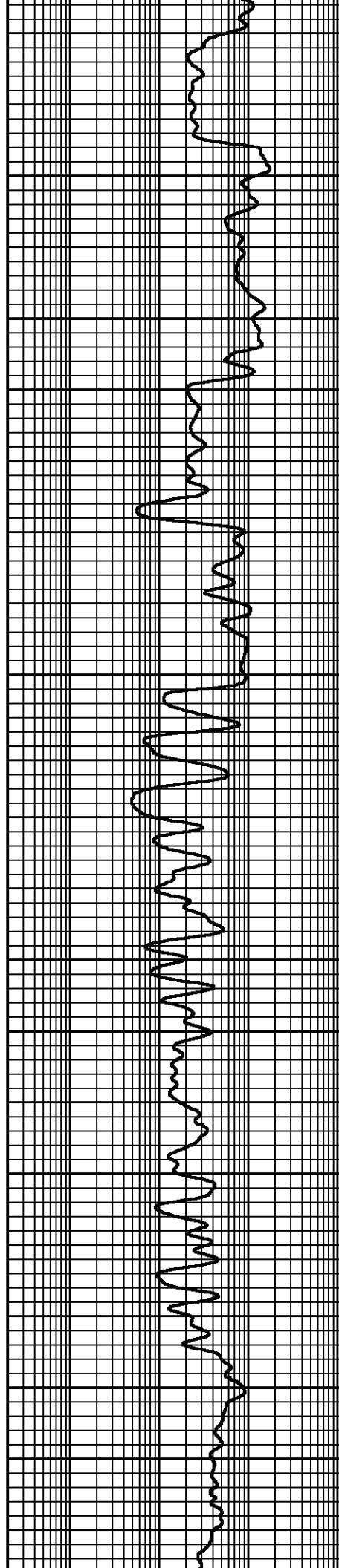
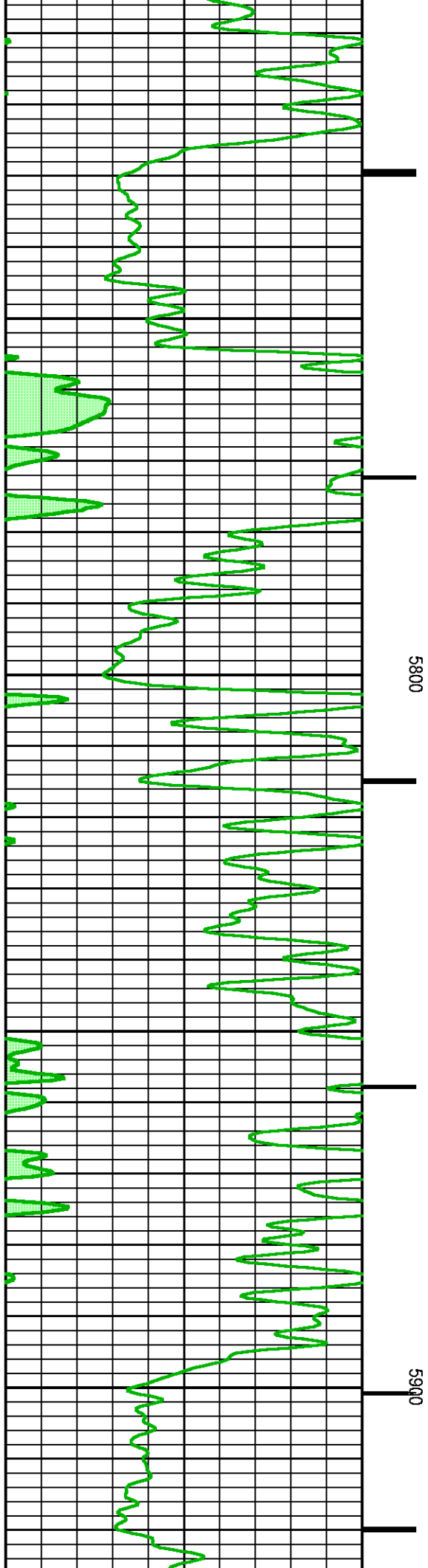


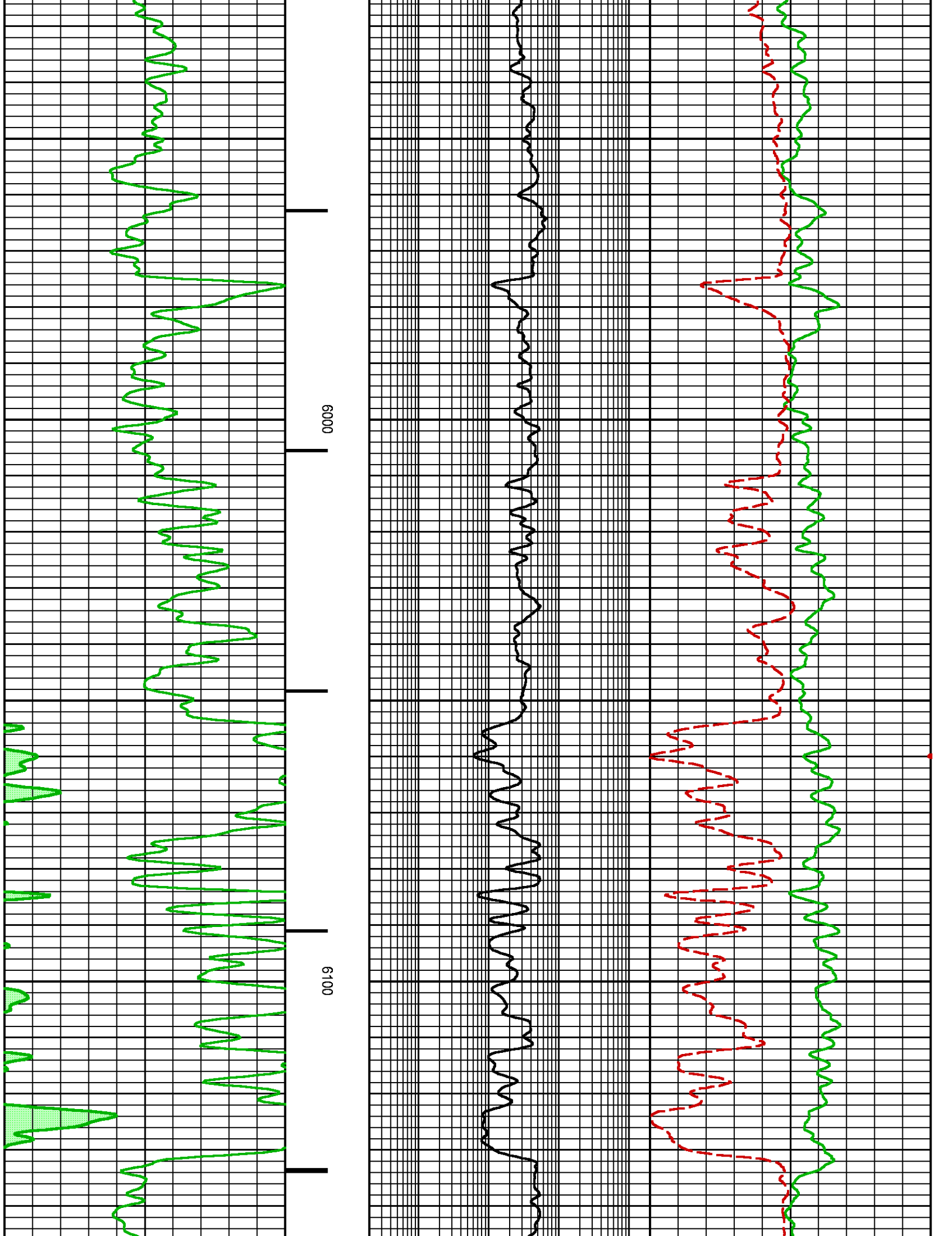


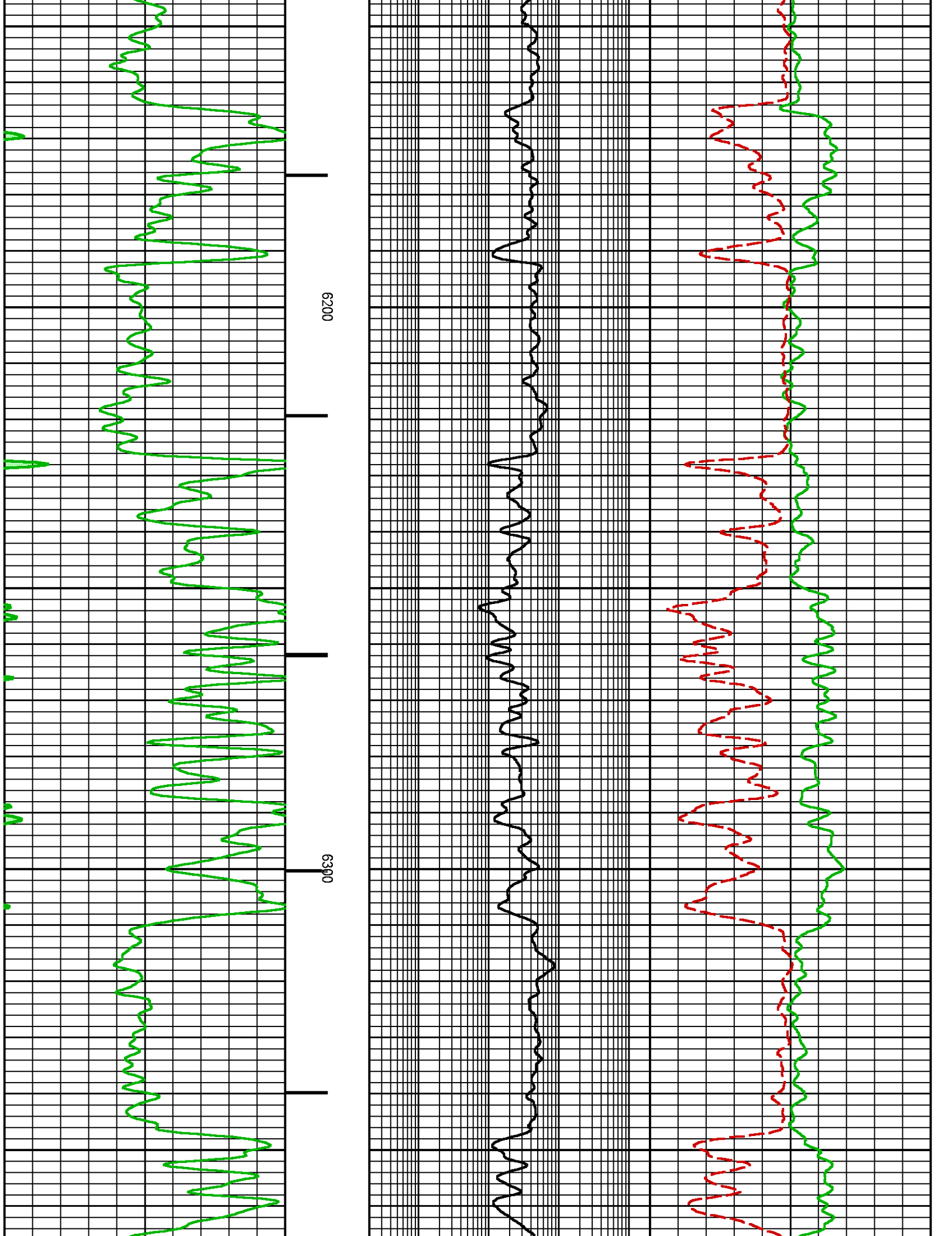




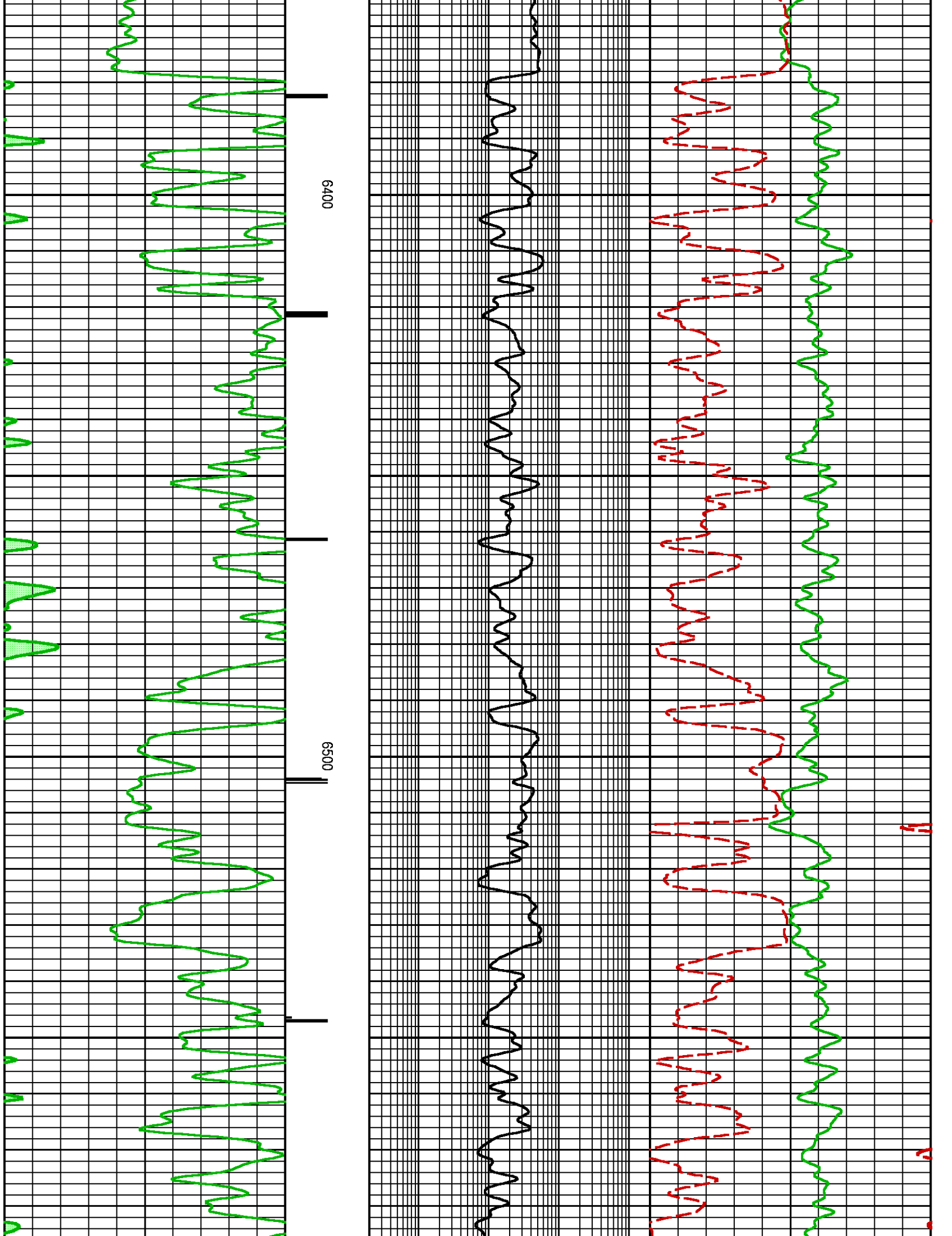


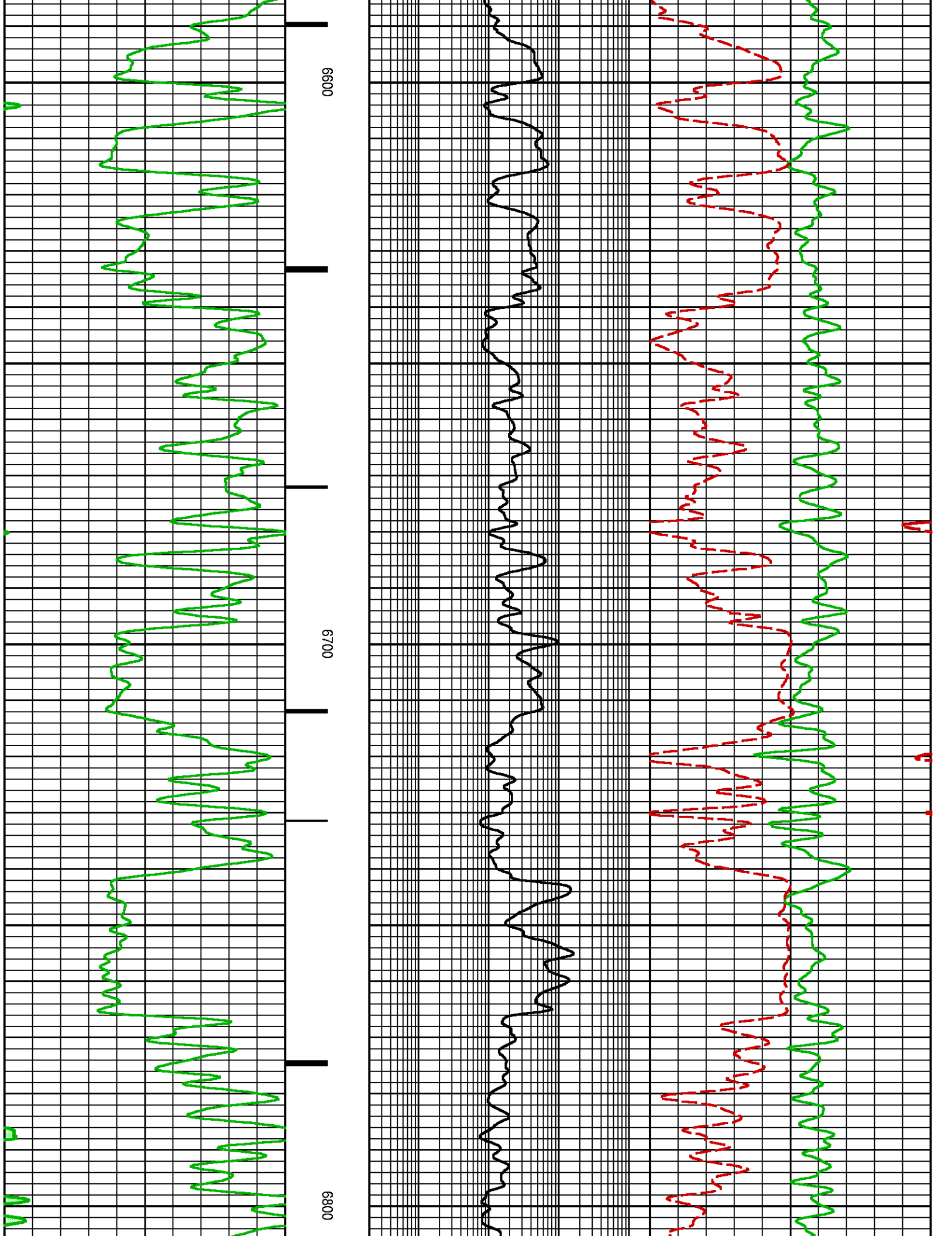


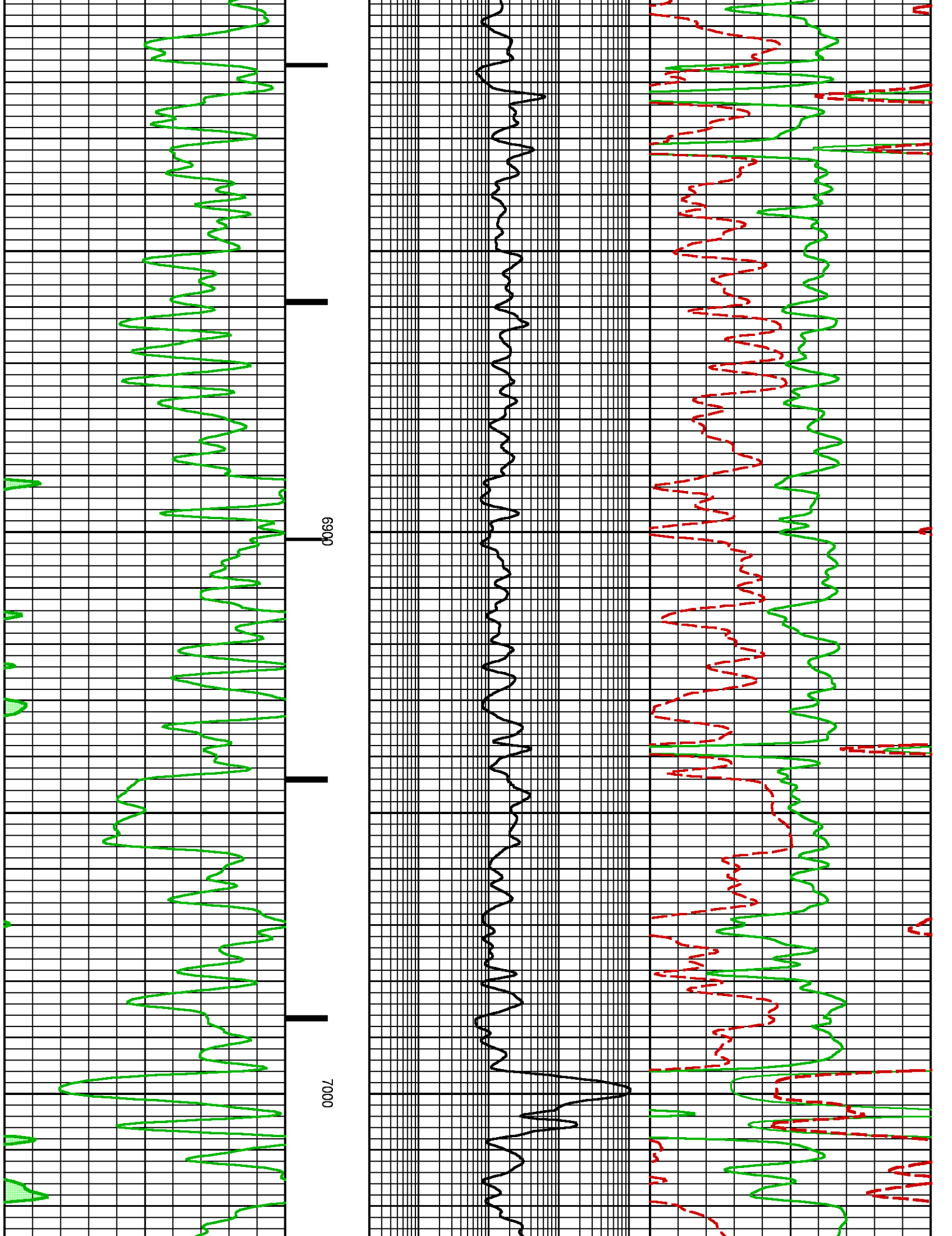


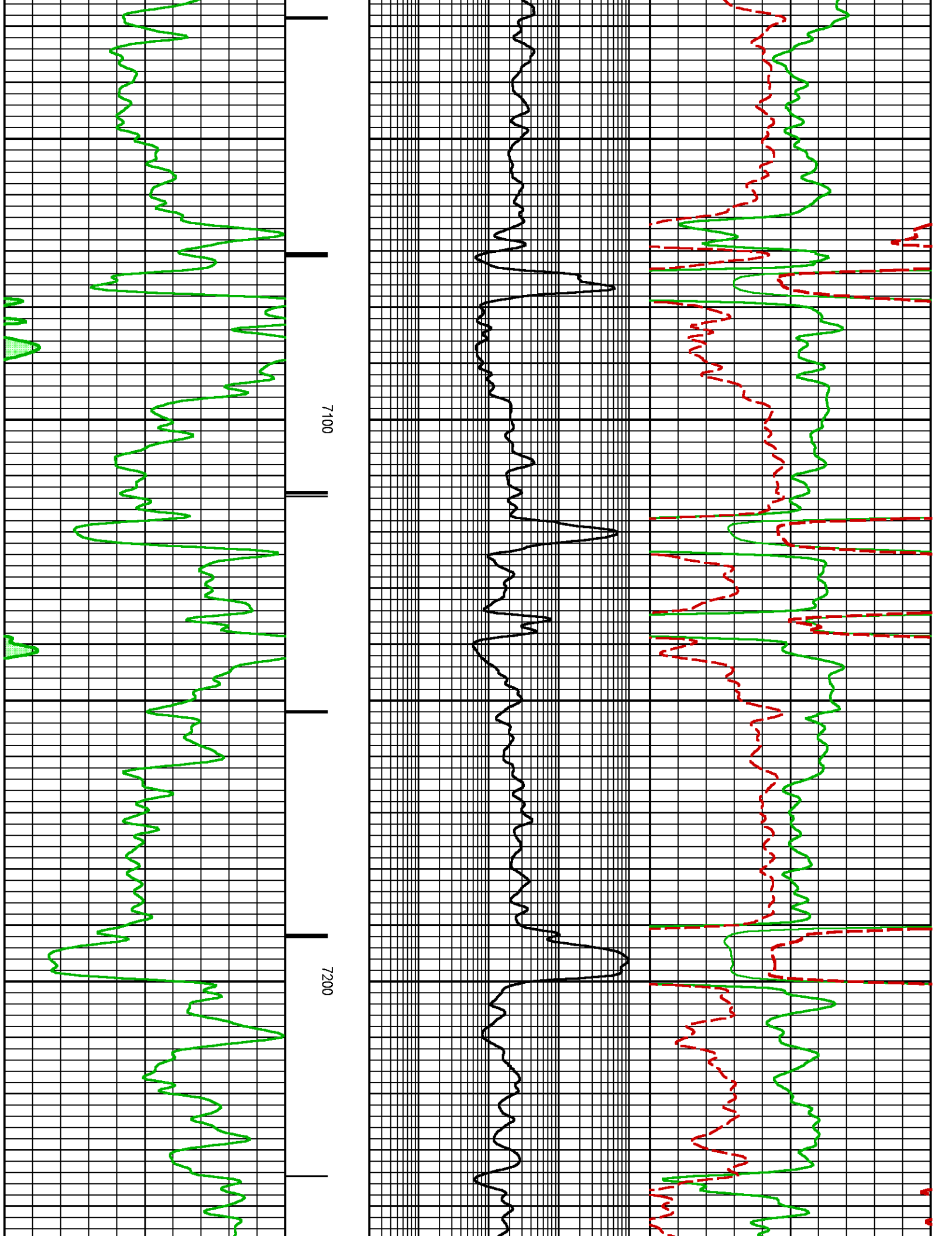


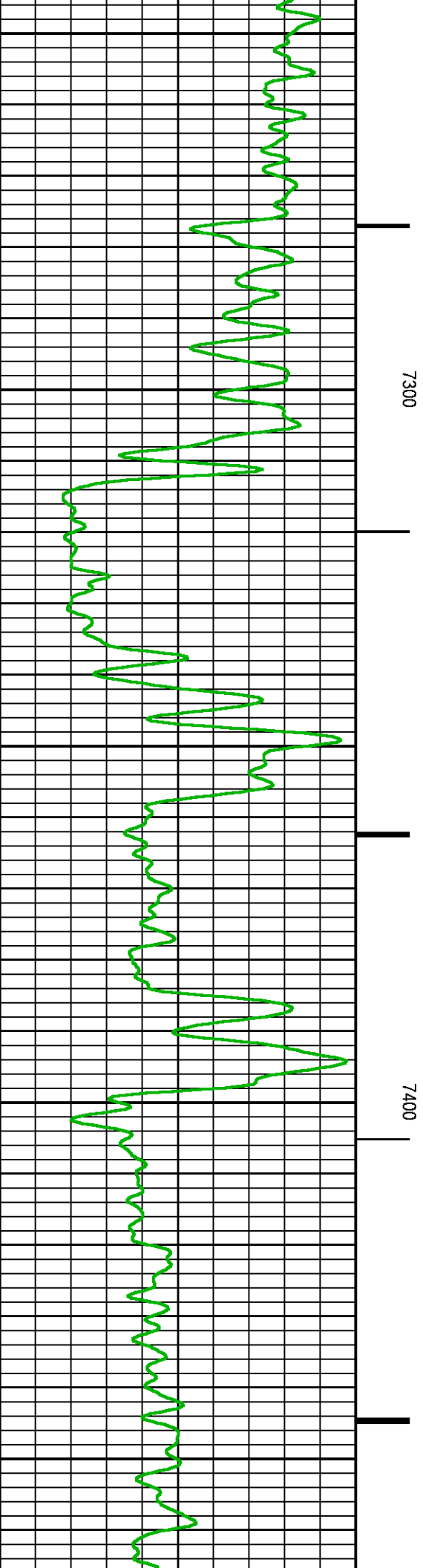
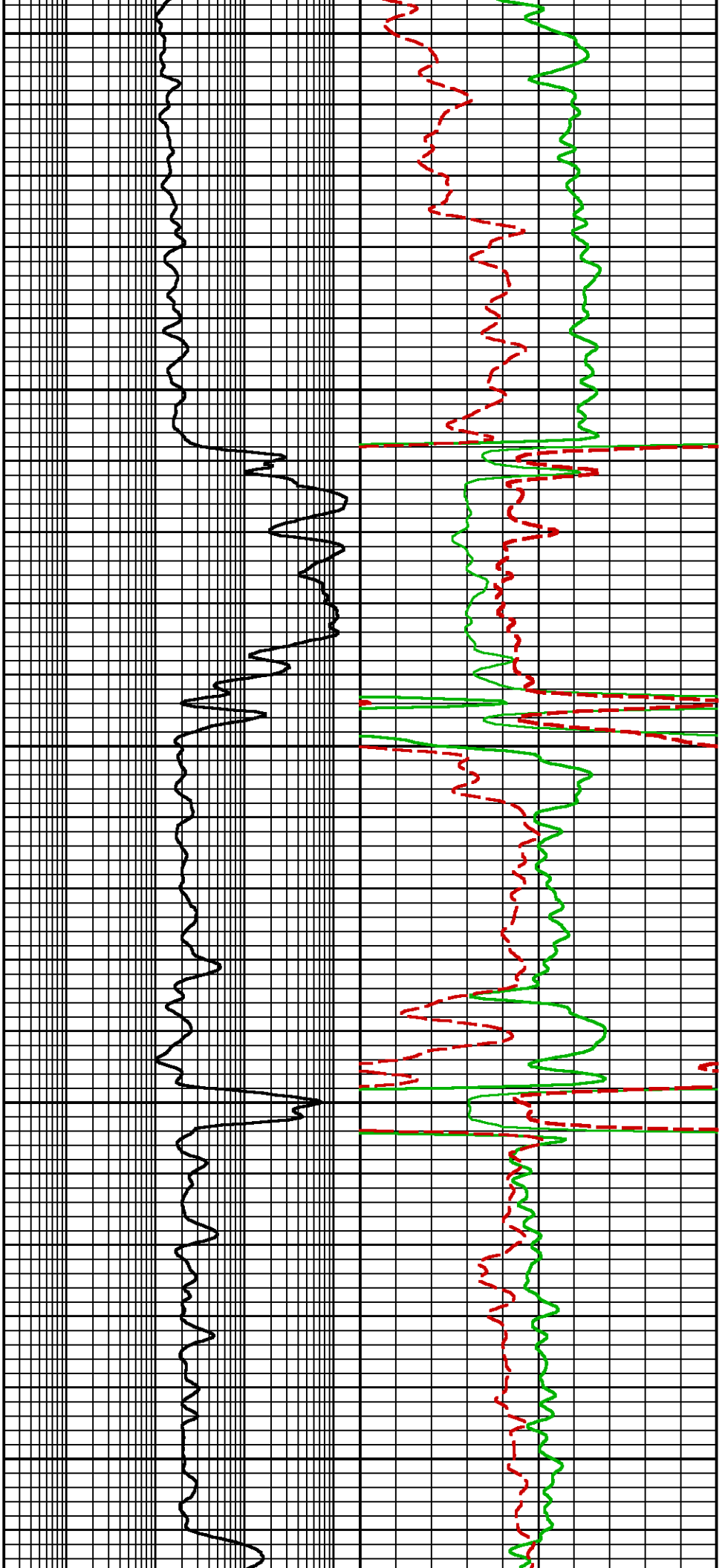


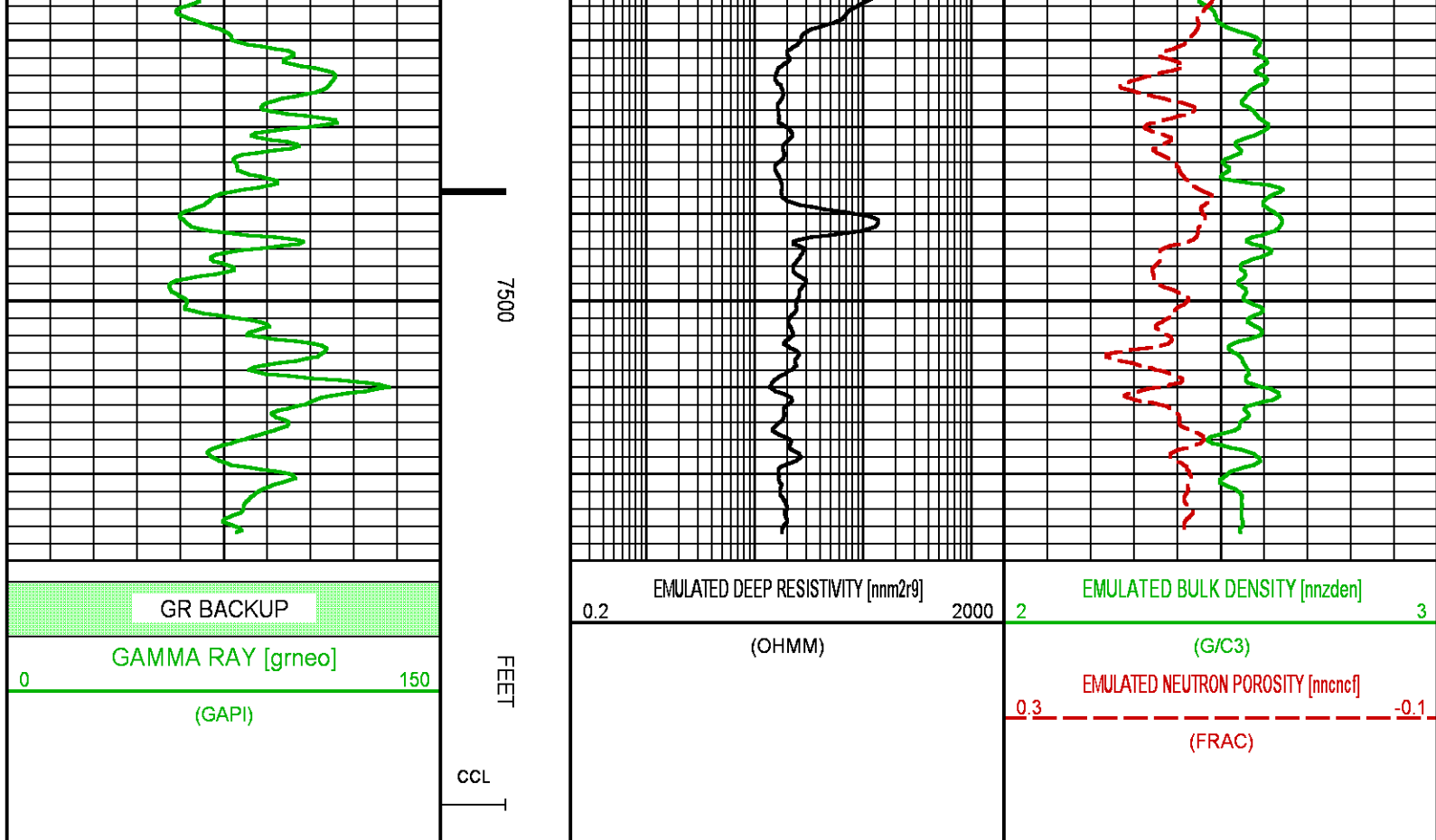



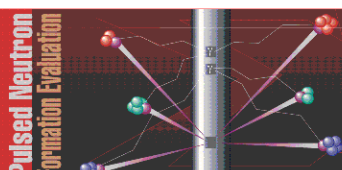










 	<b>COMPANY</b> <u>LARAMIE ENERGY LLC</u> <b>WELL</b> <u>NICHOLS 0994-24-11E</u> <b>FIELD</b> <u>VEGA</u> <b>COUNTY</b> <u>MESA</u> <b>STATE</b> <u>COLORADO</u>		<b>FILE NO:</b> _____ <b>API NO:</b> <u>05077103970000</u>
	<b>LOCATION:</b> <u>SEE REMARKS SECTION</u> <b>SEC</b> <u>24</u> <b>TWP</b> <u>9S</u> <b>RGE</b> <u>94W</u>		<b>ELEVATIONS:</b> <b>KB</b> <u>7236.0 FT</u> <b>DF</b> _____ <b>GL</b> <u>7212.0 FT</u> <b>DATE</b> <u>27-JUN-2018</u>