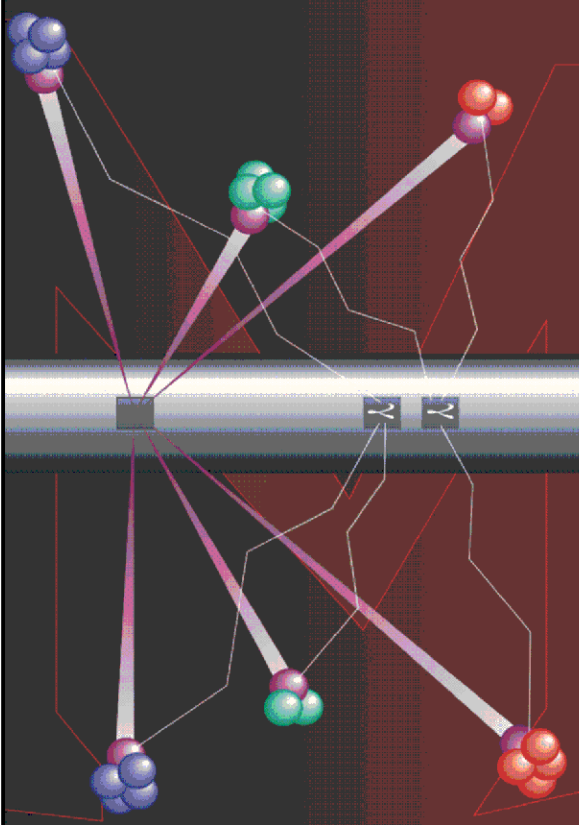


# Pulsed Neutron Formation Evaluation



## NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY LLC

WELL NICHOLS 0994-24-06E

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION: SEE REMARKS SECTION

ELEVATIONS:

KB 7161.0 FT DF 7160.0 FT GL 7137.0 FT

DATE 26-JAN-2018 ECC 30149-01

SEC 24 TWP 9S RGE 94W

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>2-FEB-2018</u>
FIELD DATA	LOCATION: <u>GRAND JUNCTION</u>		ENGINEER: <u>M.MENTZER/US132016</u>	DATE: <u>26-JAN-2018</u>
FROM	TO			
<u>2321 FT</u>	<u>7428 FT</u>			

### REMARKS

LOCATION:  
SHL: LAT: 39.264586 N; 107.830603 W  
BHL: LAT: 39.266062 N; 107.826023 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 0994-24-06E (G-SAND)

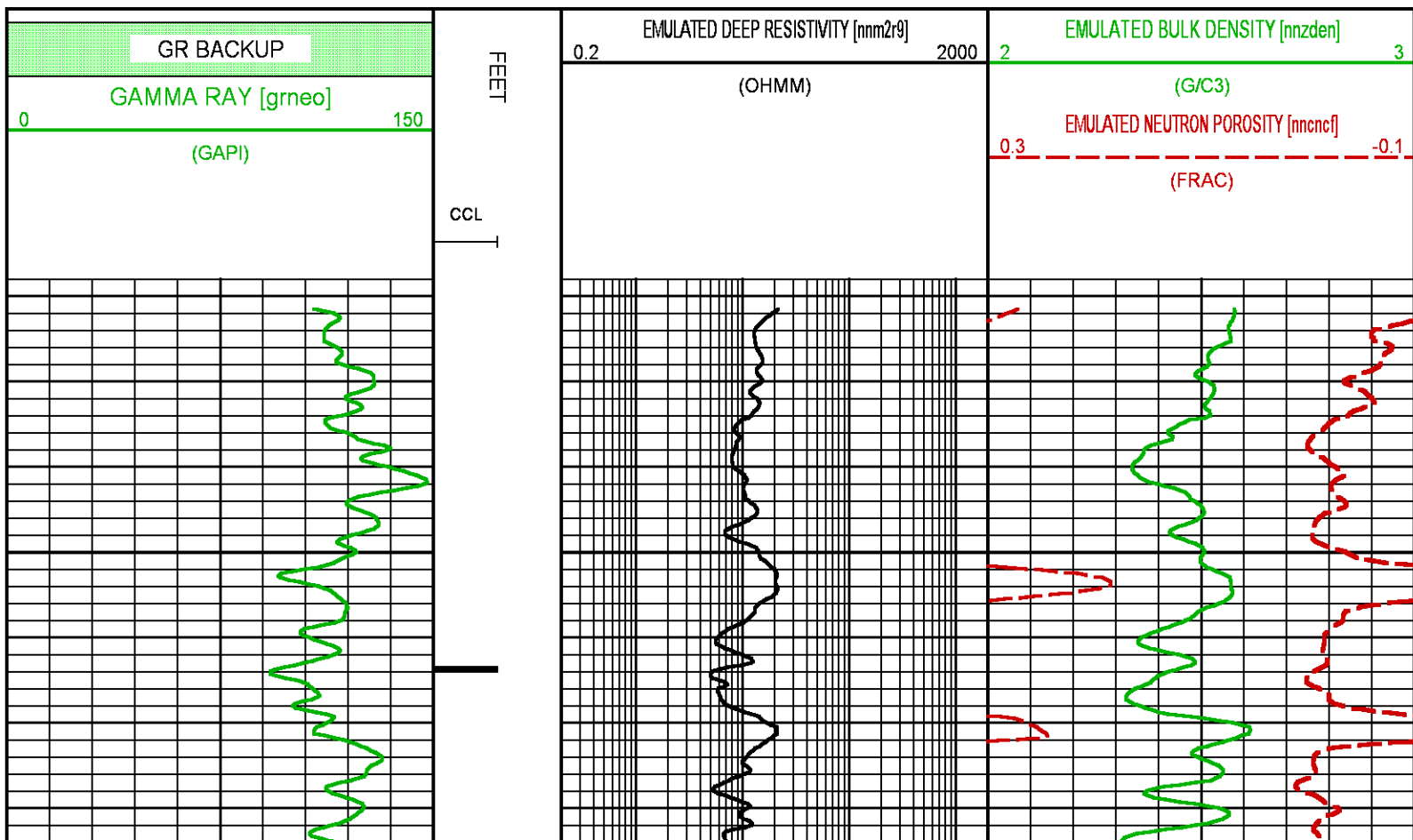
ECLIPS ECPlot from ECLIPS 7.0 WFM 5.0.7343.1 Sun 02/07/2016 16:48:51.73

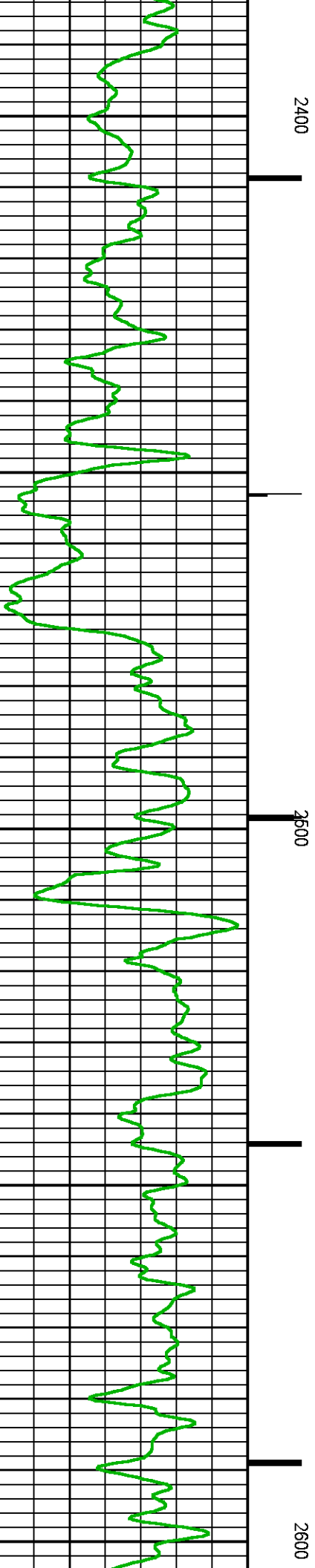
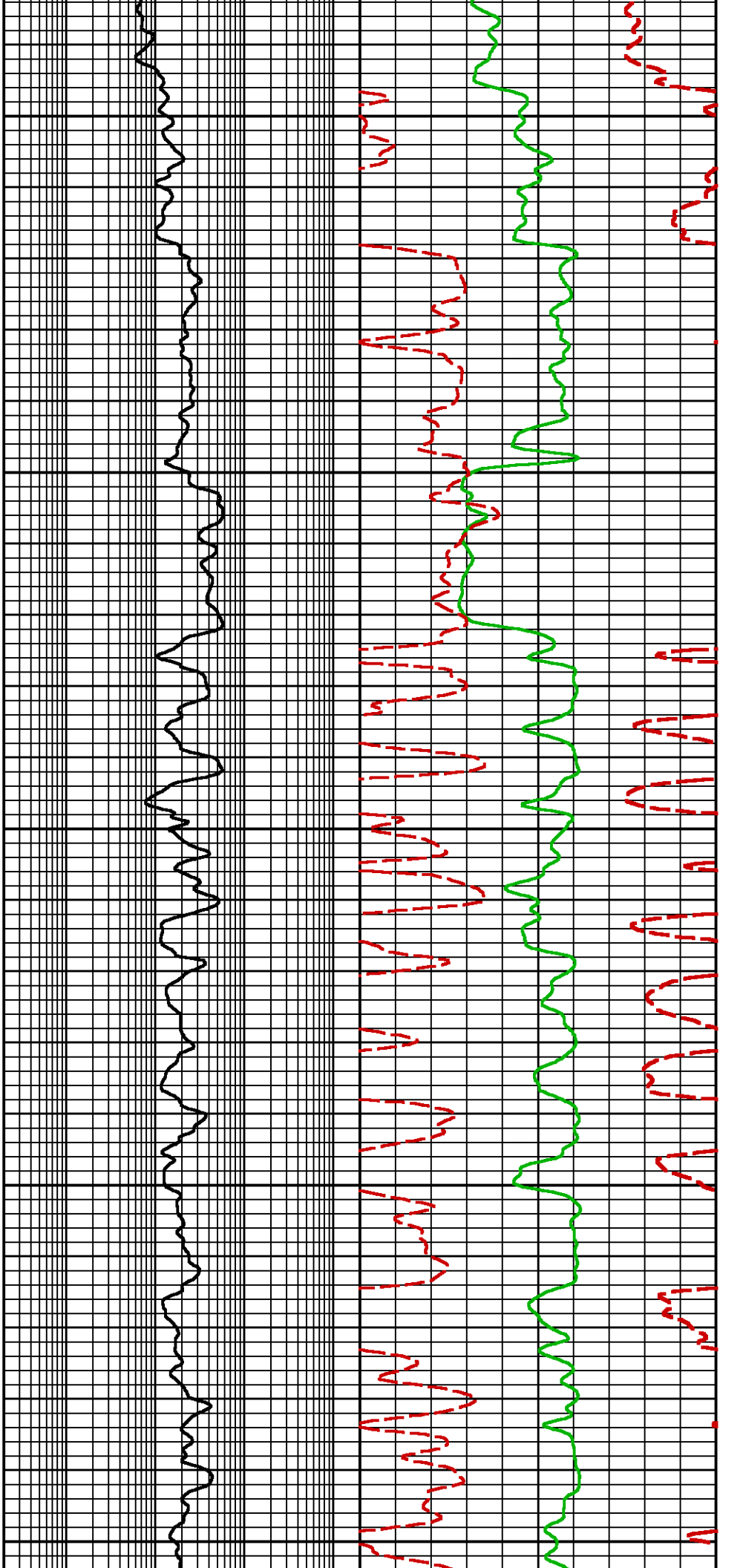
Plotted: Fri Feb 02 10:17:16 2018

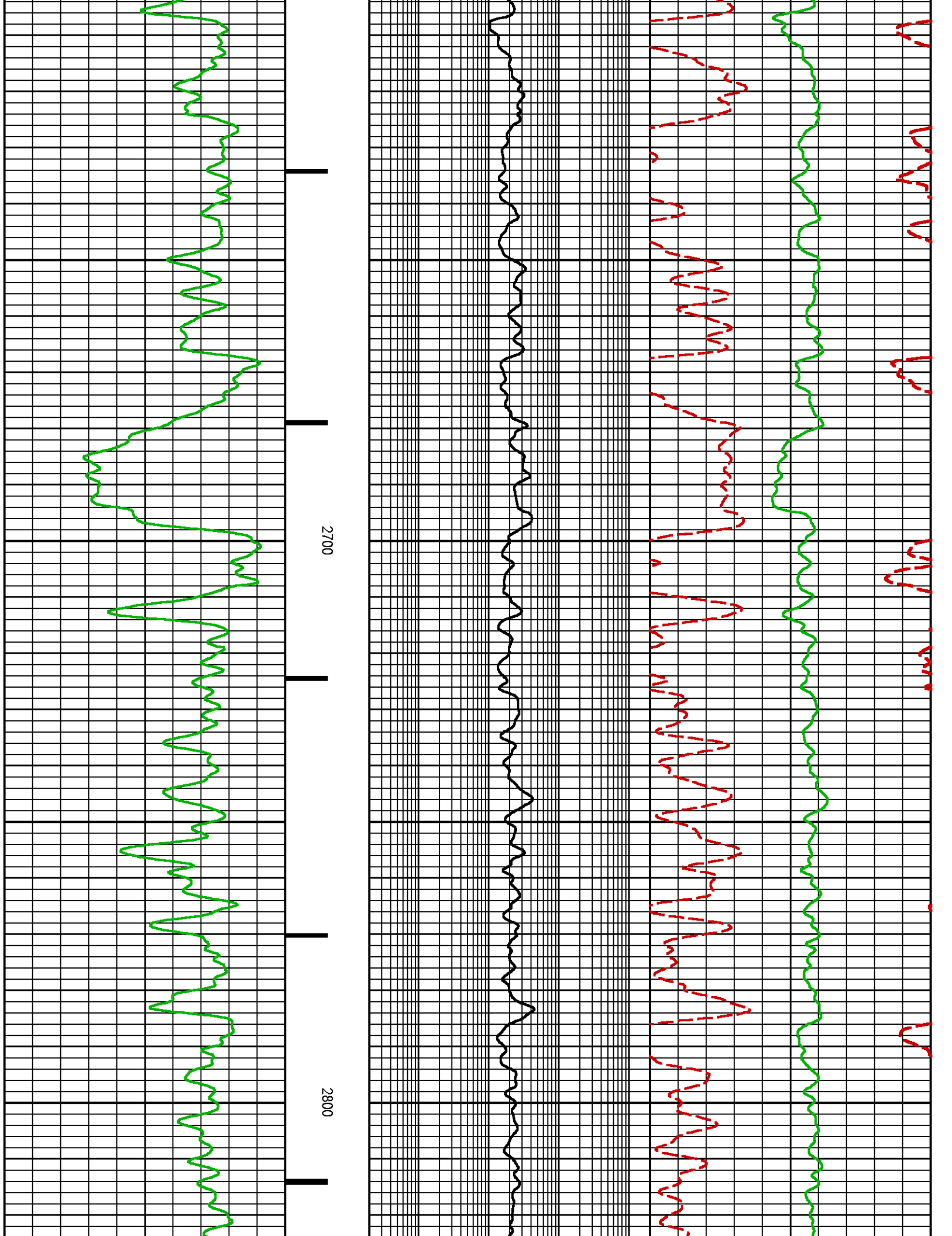
## CURVE MEASURE POINT OFFSET

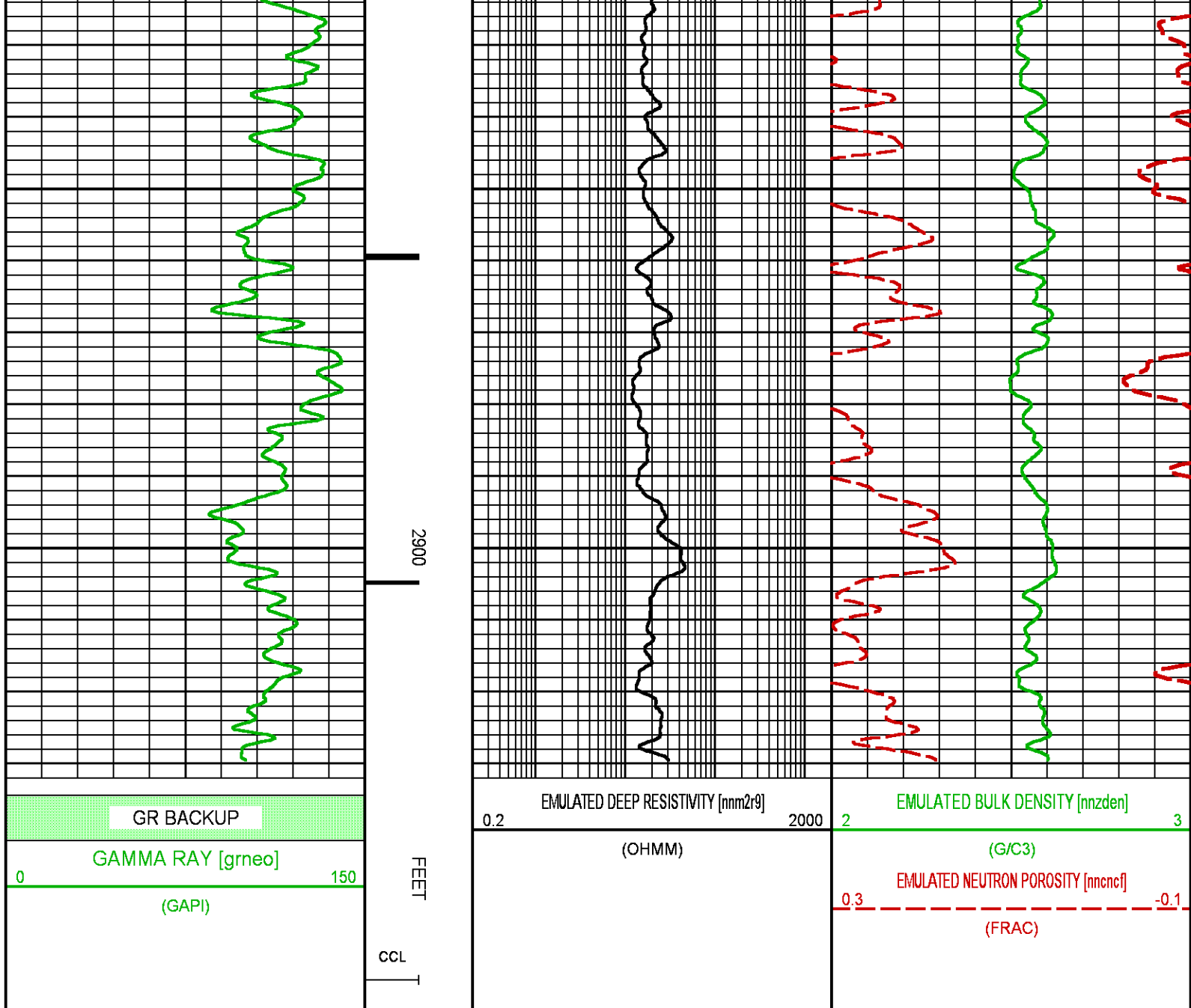
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNCf	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

**Project** : NA  
**User** : kotoale  
**Presentation** : BHI1F65XZ1:d:\Ape\_Projects\Laramie\_NICHOLS\_0994\_24\_06E\_NEO\NEO\_PRESENTATION\_LARAMIE\_G-Sand.pdf [5"/100" Scale]  
**Plot Interval** : 2318 - 2932 Feet  
**Data File 1** : F1 : BHI1F65XZ1:D:\Ape\_Projects\Laramie\_NICHOLS\_0994\_24\_06E\_NEO\Merged\_Set\_Final.xtf  
**Created On** : N/A  
**Company** : LARAMIE ENERGY LLC  
**Well** : NICHOLS 0994-24-06E  
**Field** : VEGA  
**File Interval** : 2321.5 - 7428.5 Feet  
**OCT** : NA









## NEO RESULTS FOR NICHOLS 0994-24-06E (MAIN)

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

Plotted: Fri Feb 02 10:17:00 2018

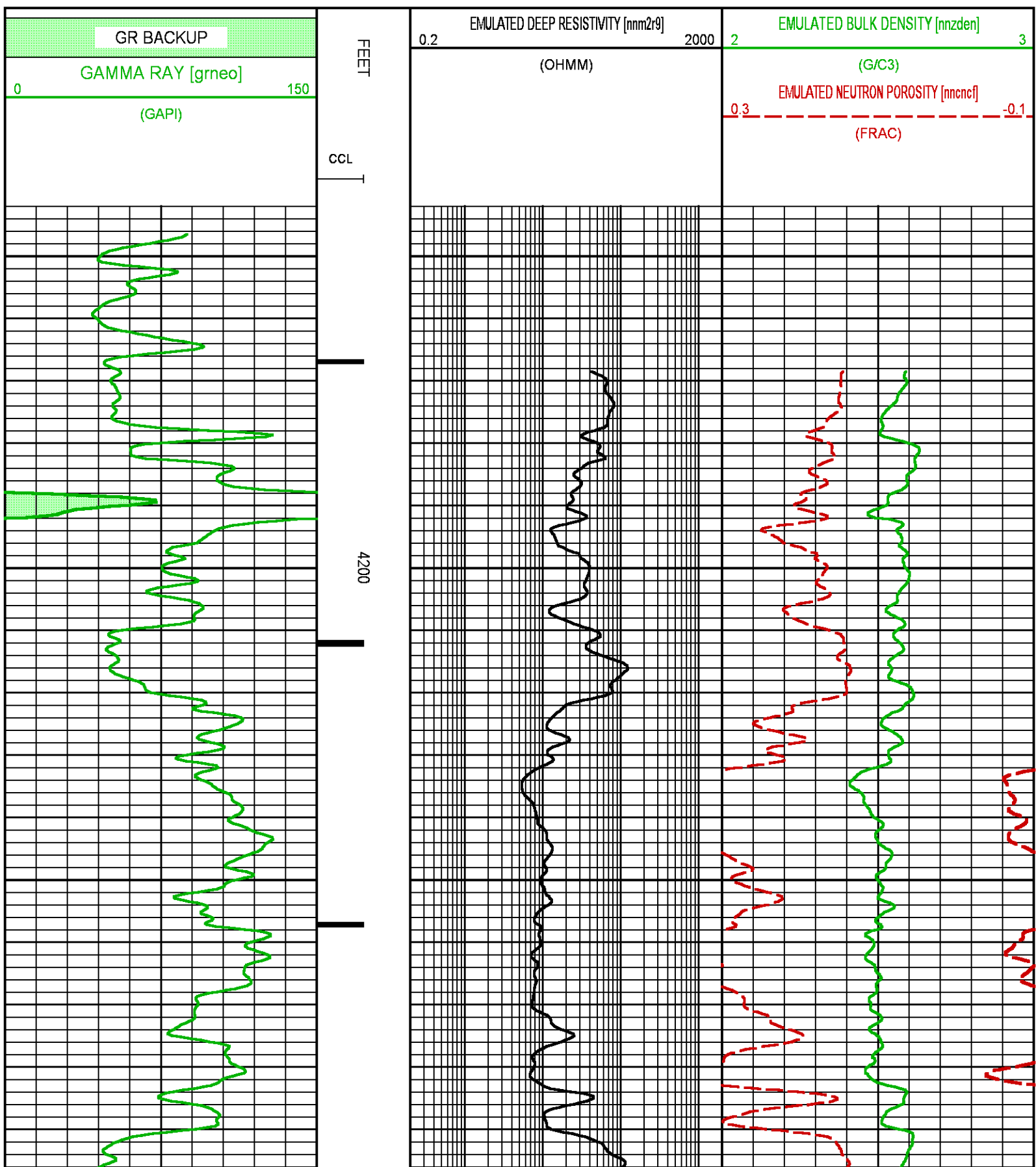
### CURVE MEASURE POINT OFFSET

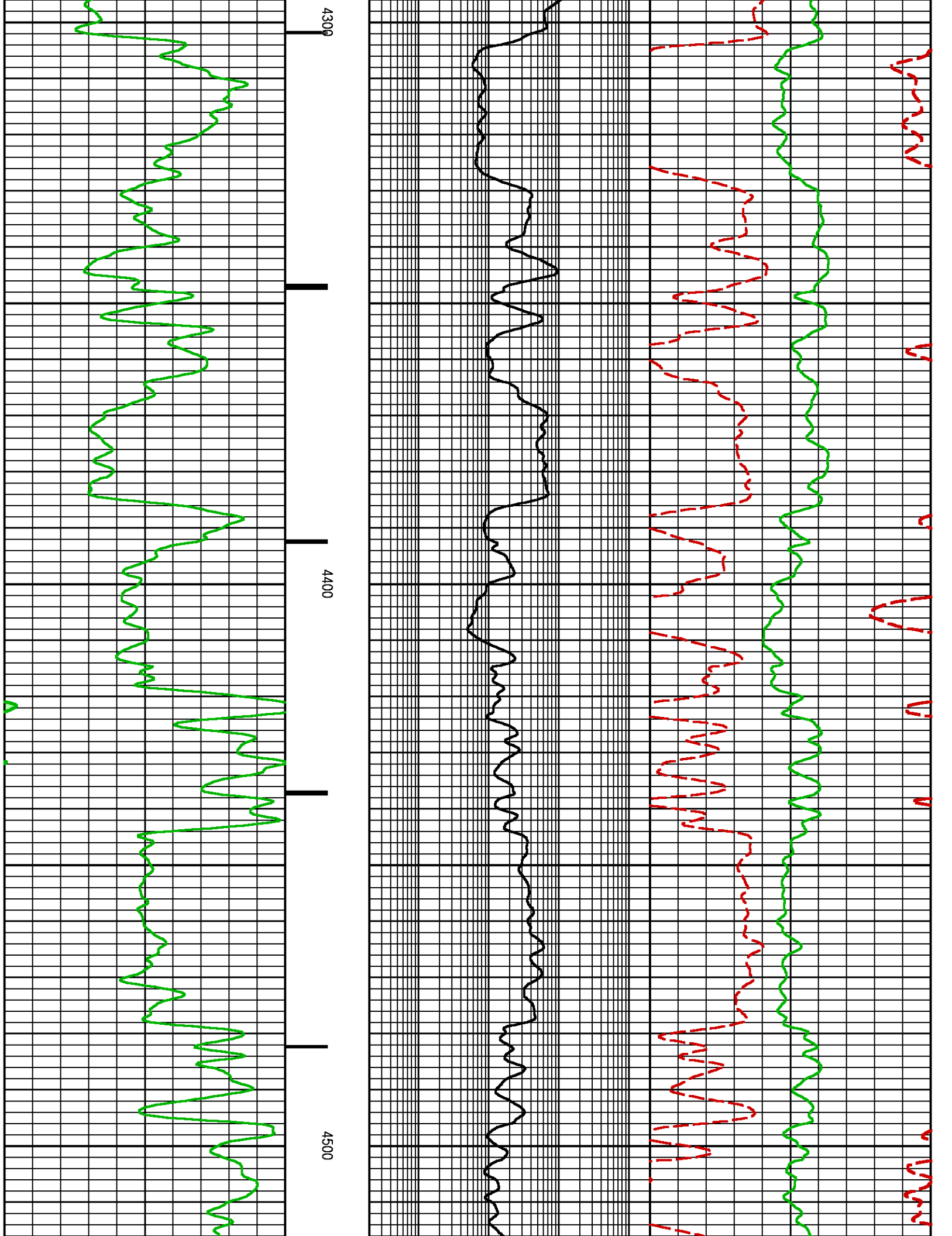
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
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GRNEO	0.00	NNM2R9	0.00				

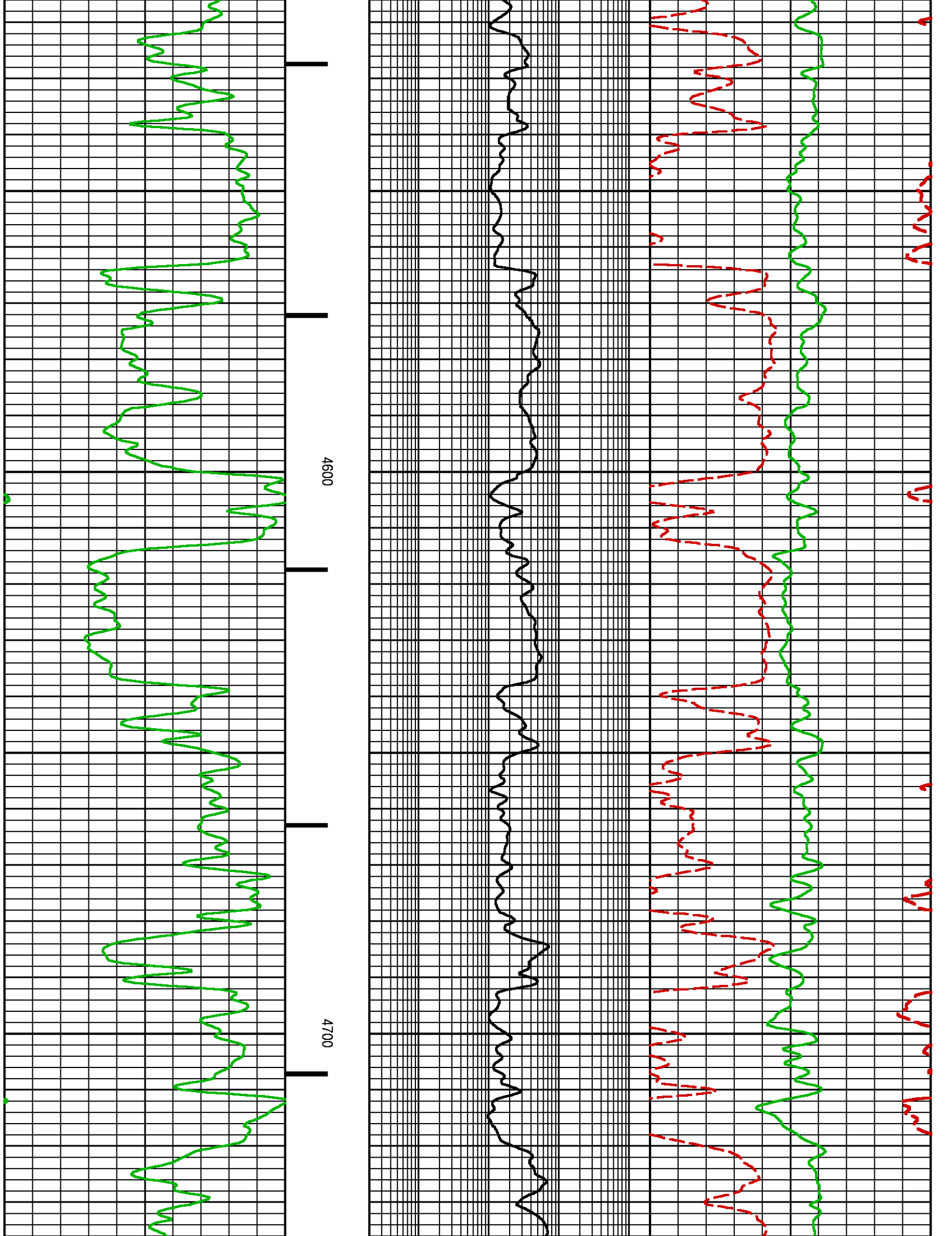
Project : NA  
User : kotoale

Presentation : BHI1F65XZ1:d:\Ape\_Projects\Laramie\_NICHOLS\_0994\_24\_06E\_NEO\NEO\_PRESENTATION\_LARAMIE\_MAIN.pdf [5"=100' Scale]  
Plot Interval : 4142 - 7432 Feet

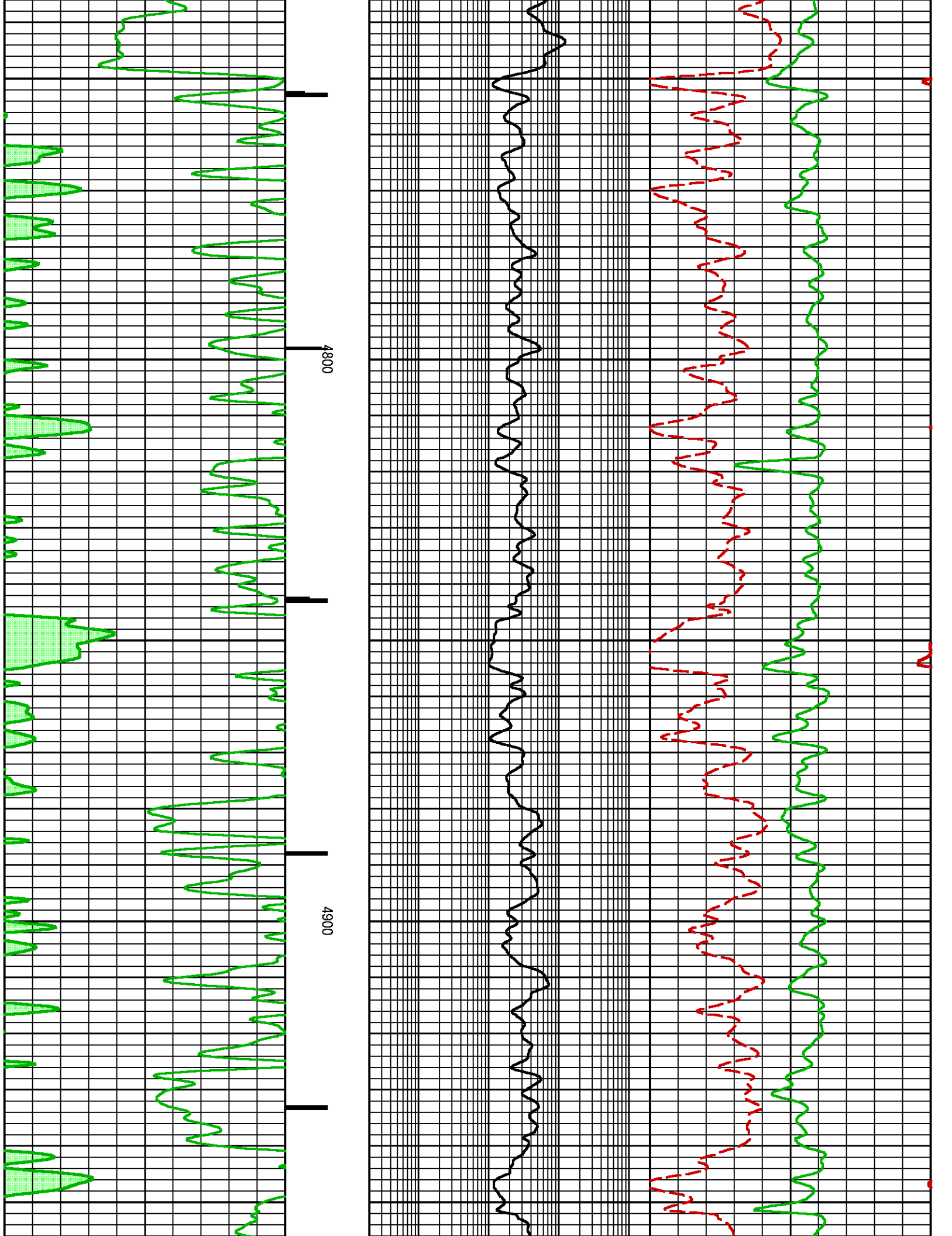
Data File 1 : F1 : BHI1F65XZ1:D:\Ape\_Projects\Laramie\_NICHOLS\_0994\_24\_06E\_NEO\Merged\_Set\_Final.xtf  
Created On : N/A  
Company : LARAMIE ENERGY LLC  
Well : NICHOLS 0994-24-06E  
Field : VEGA  
File Interval : 2321.5 - 7428.5 Feet  
OCT : NA

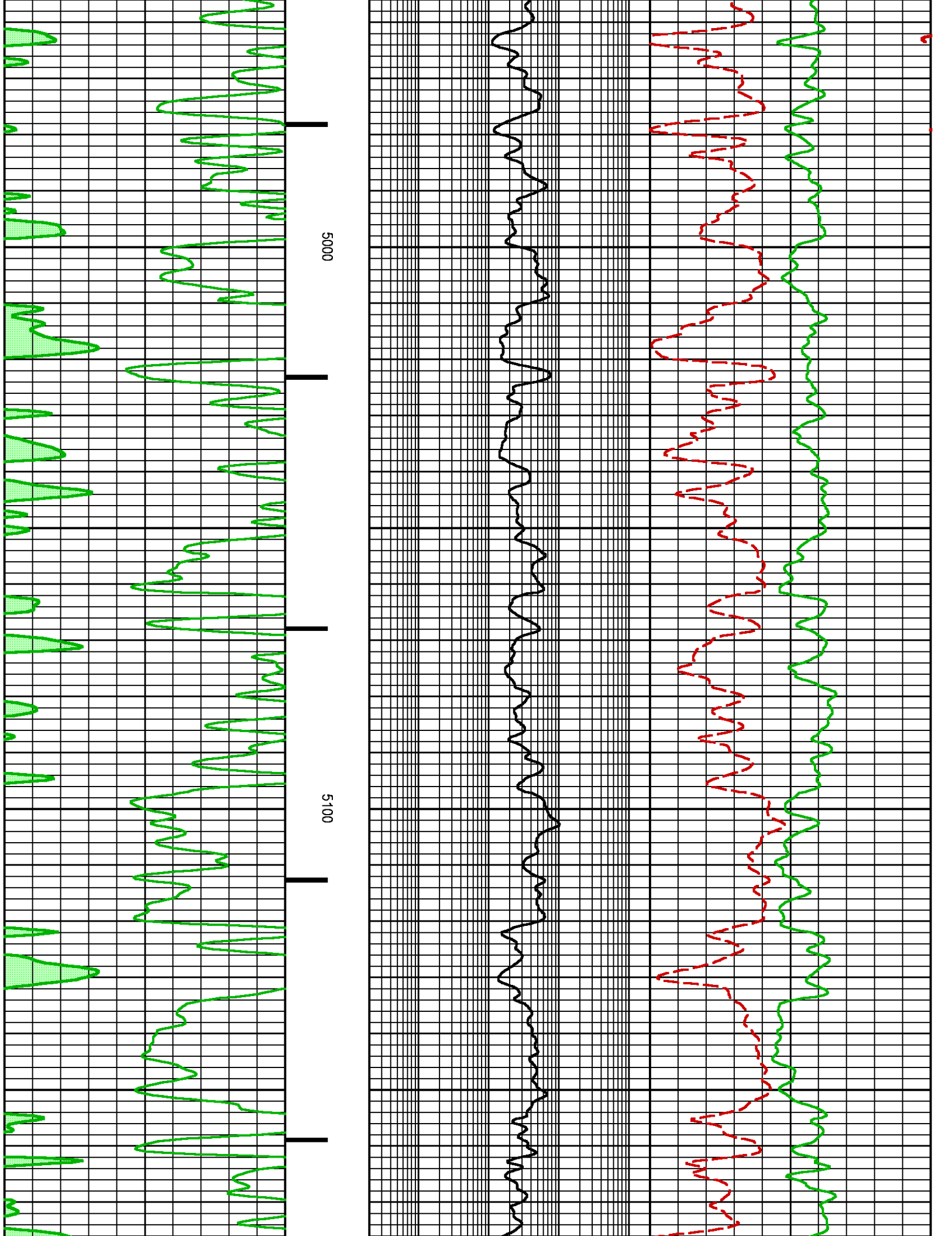


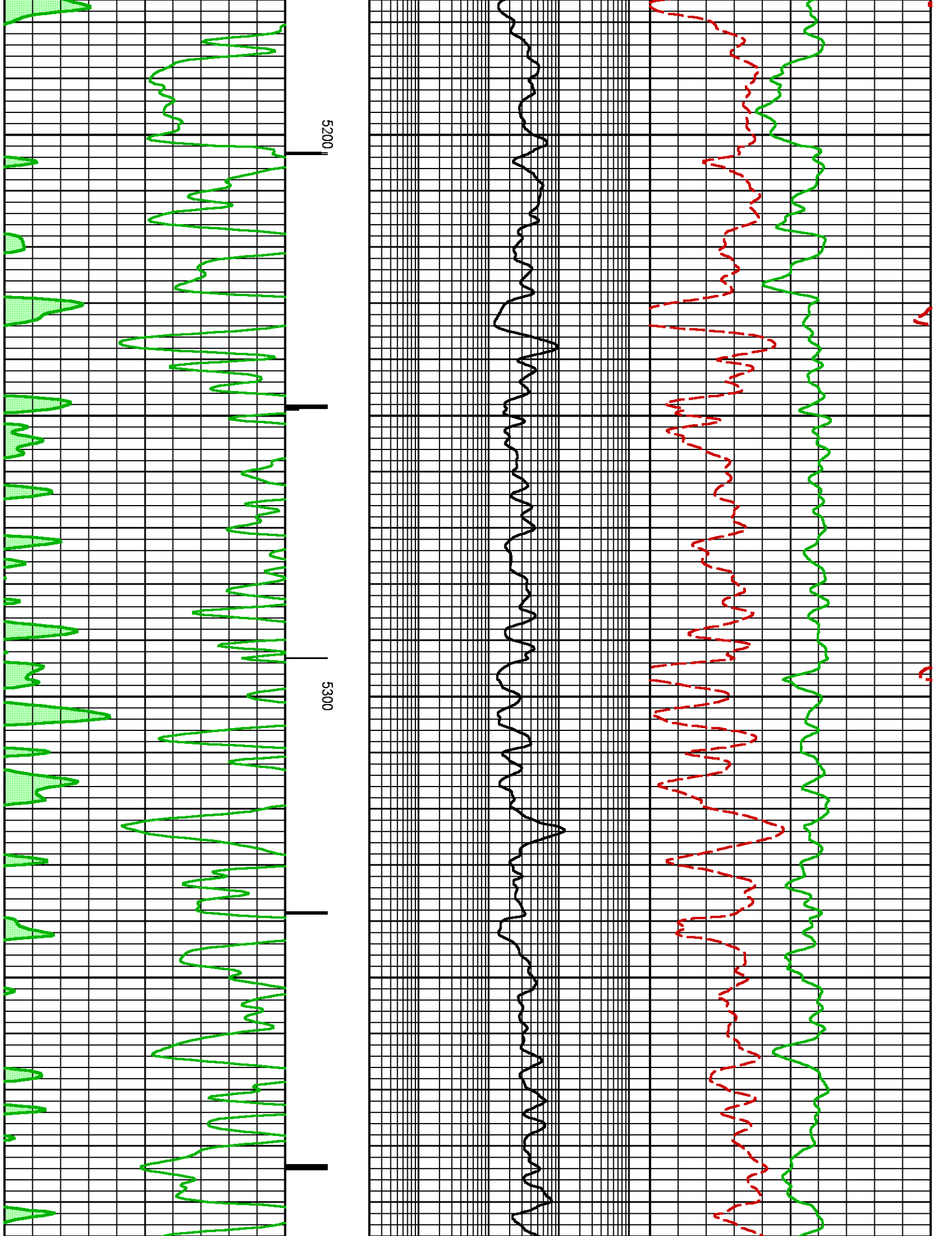


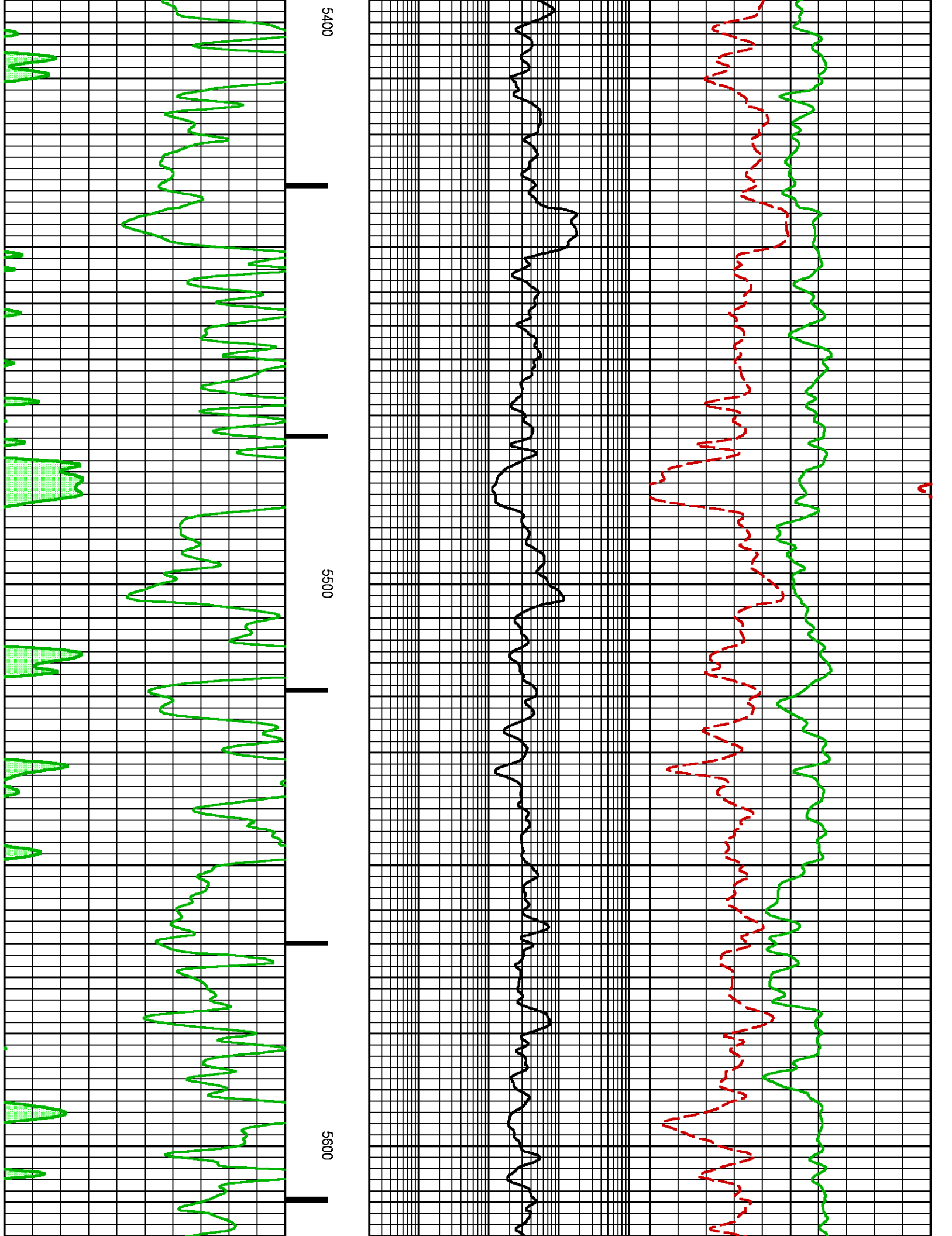


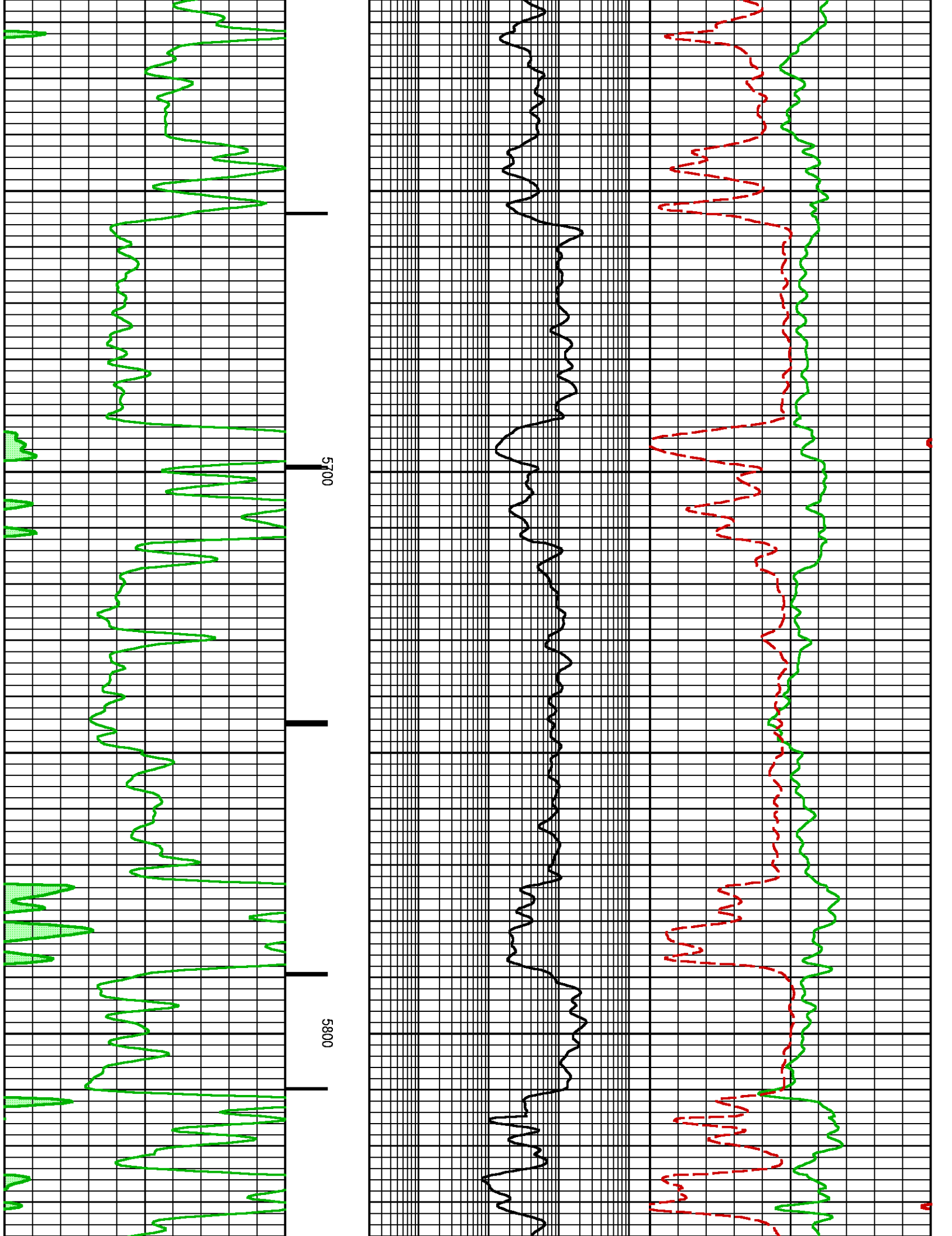


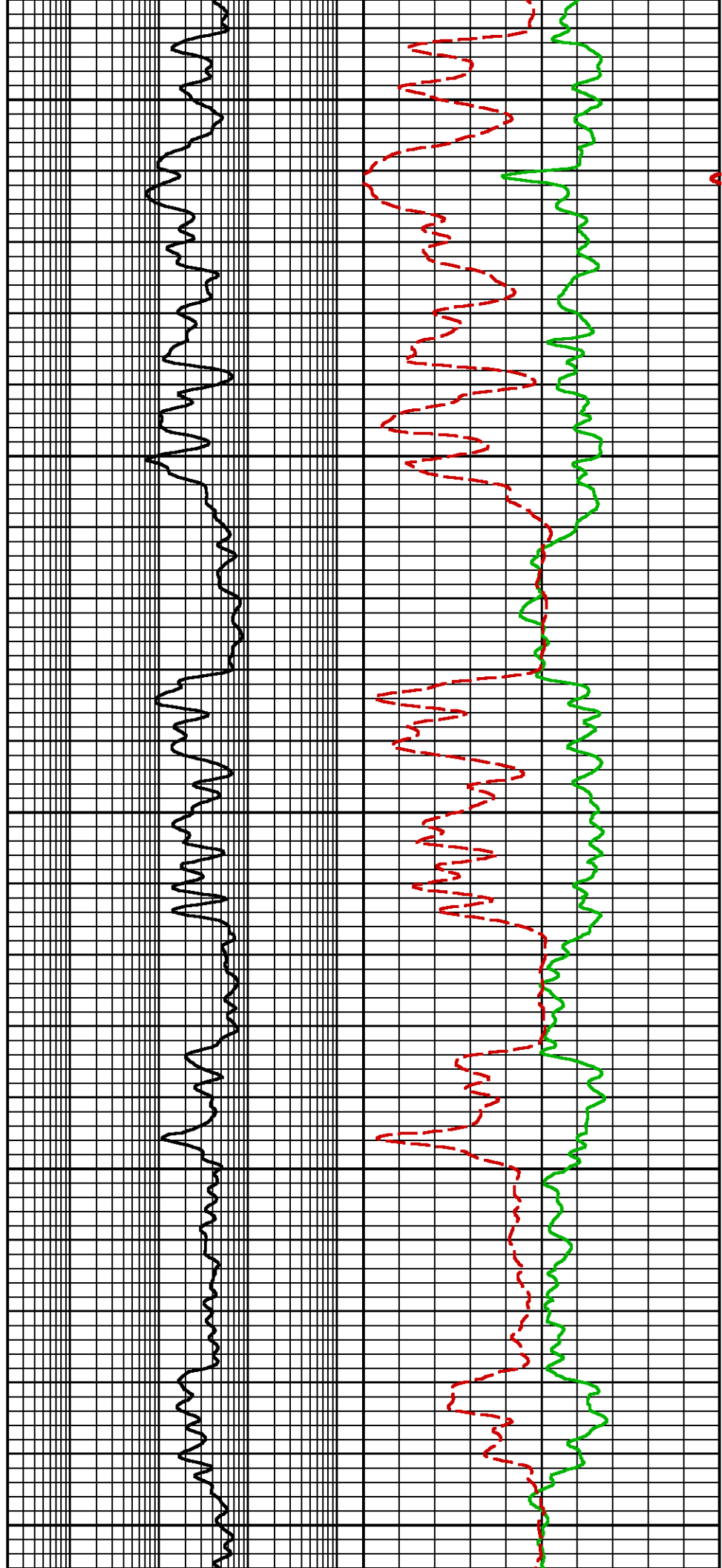
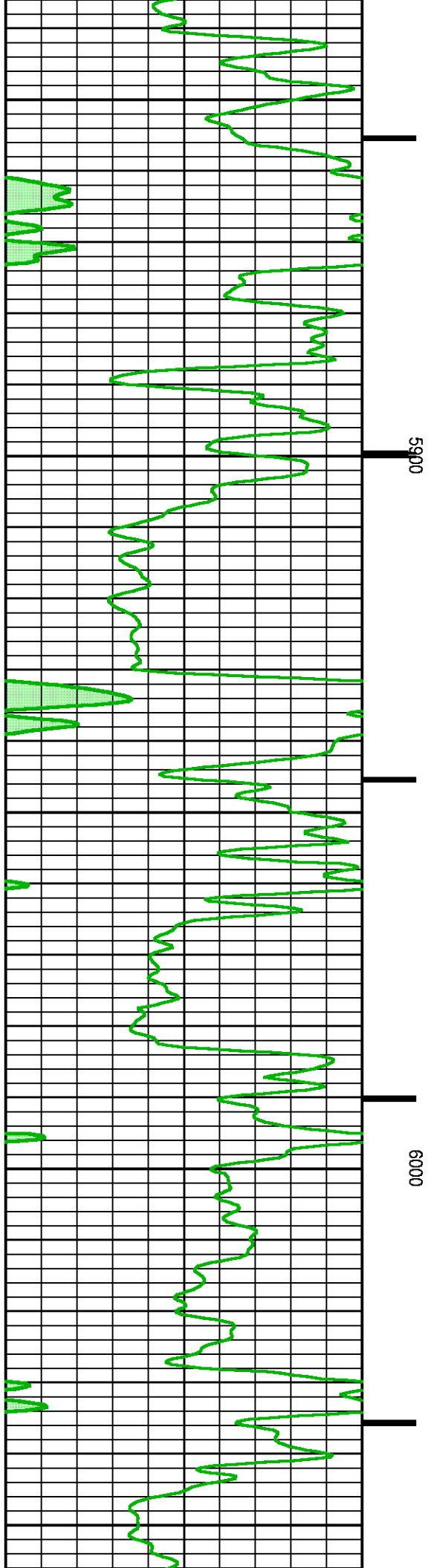


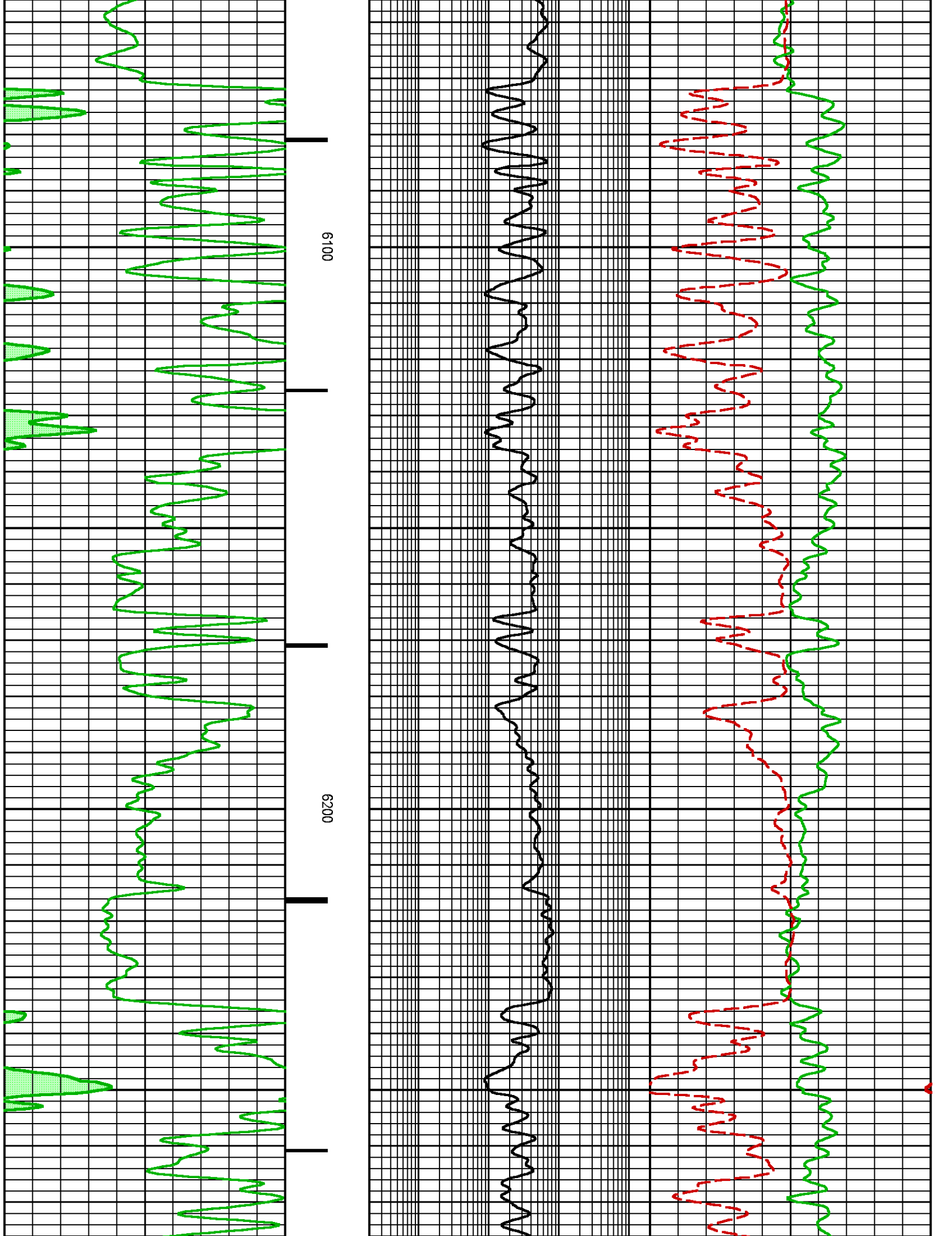


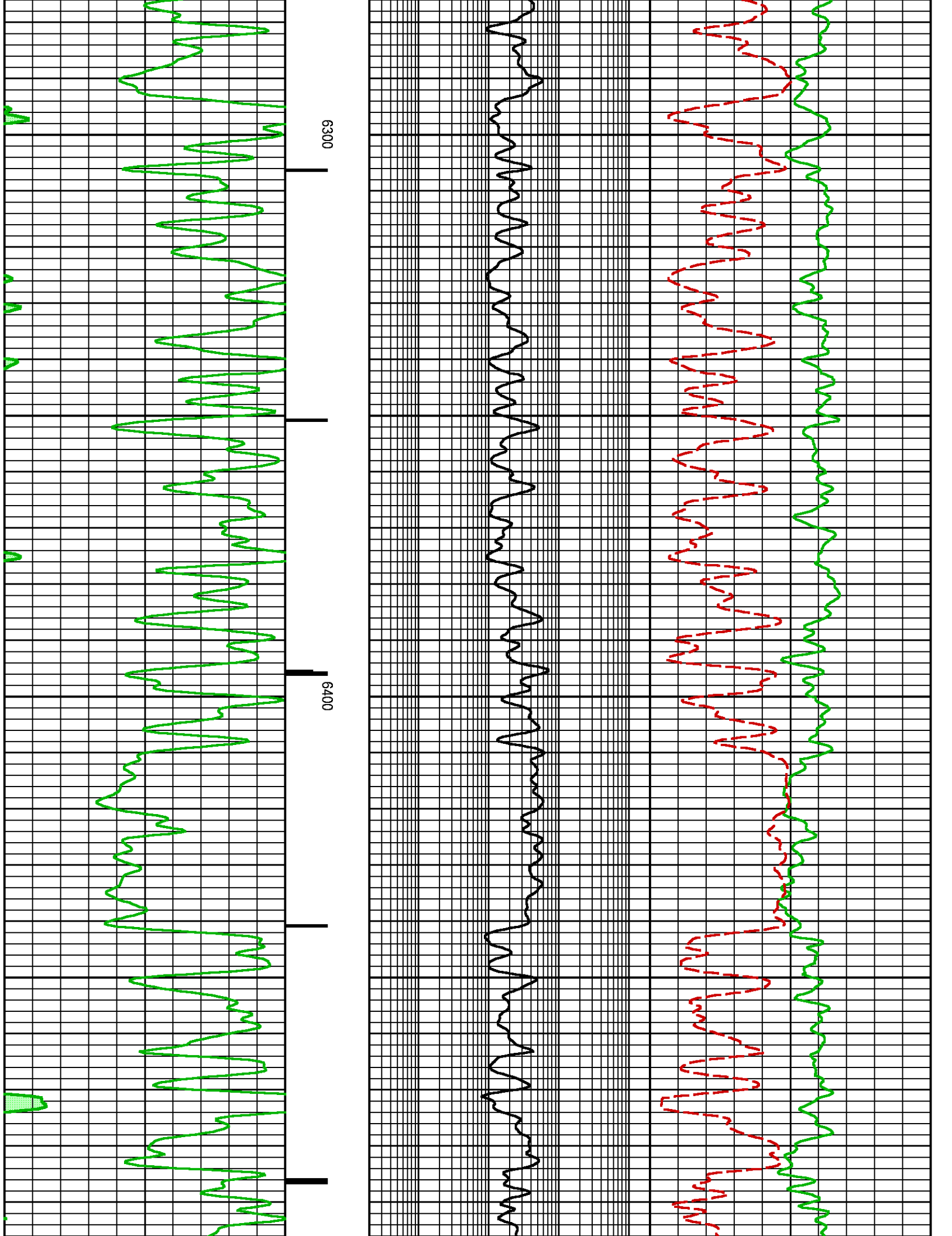




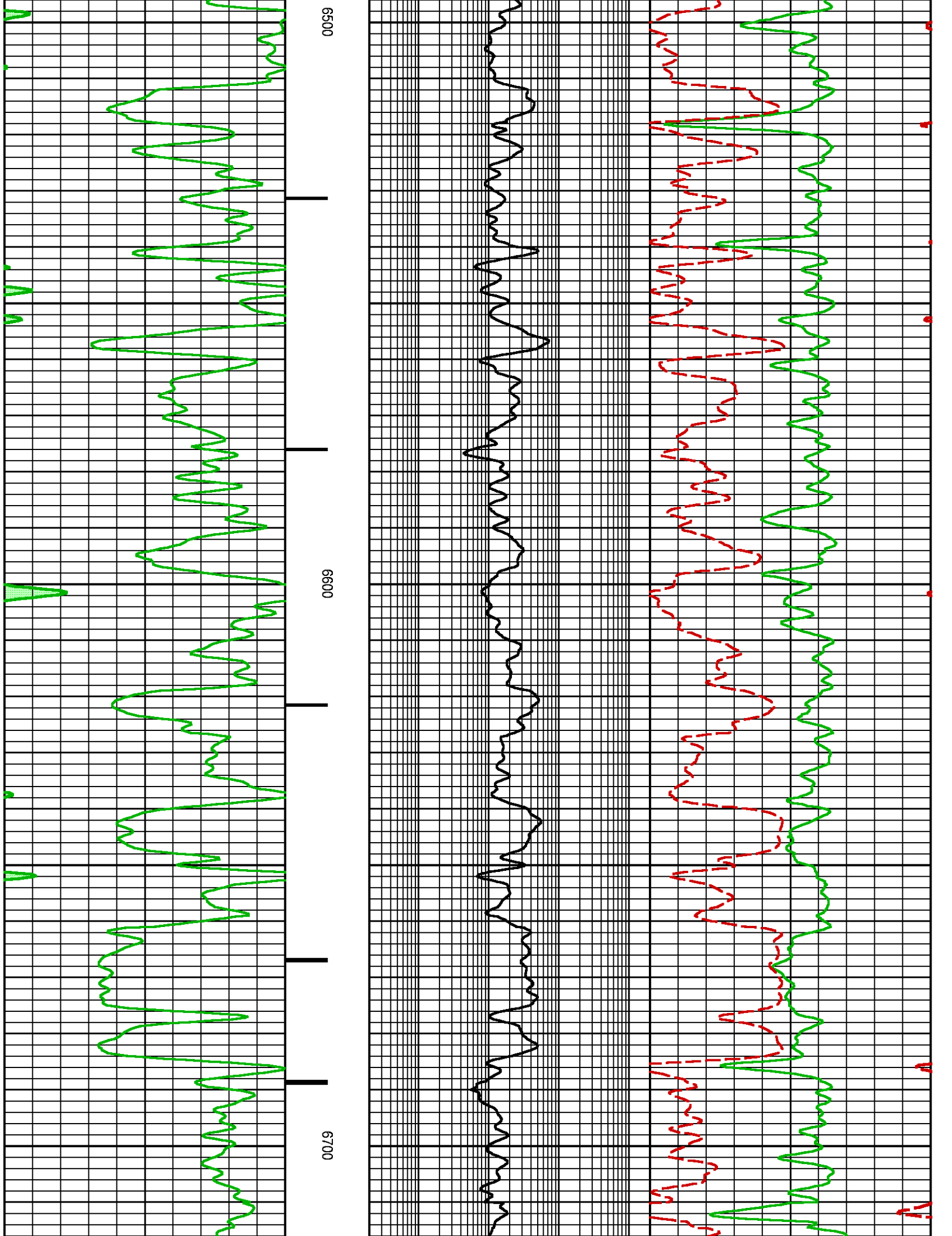


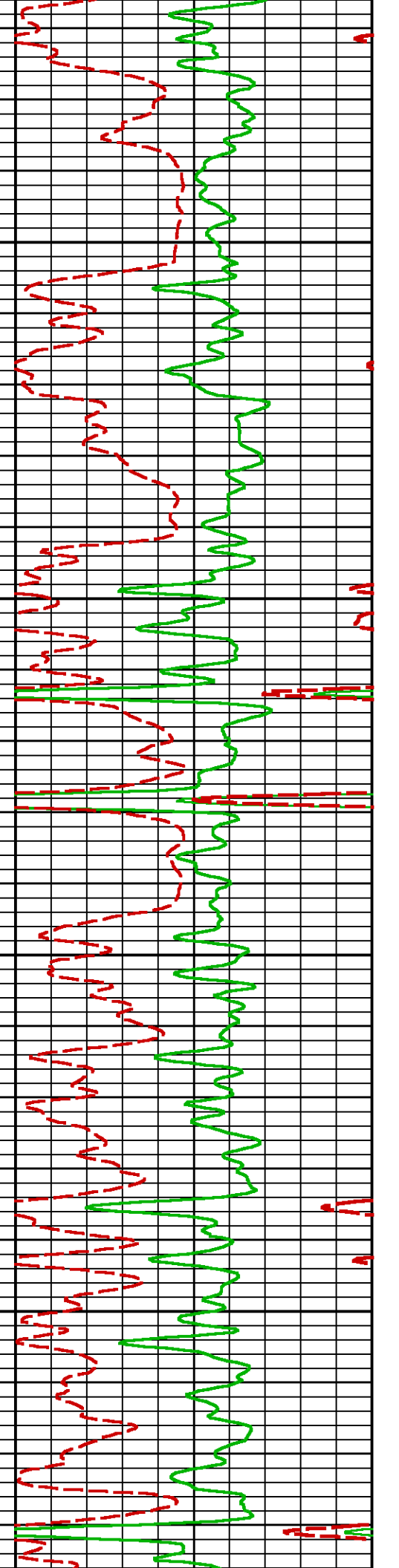
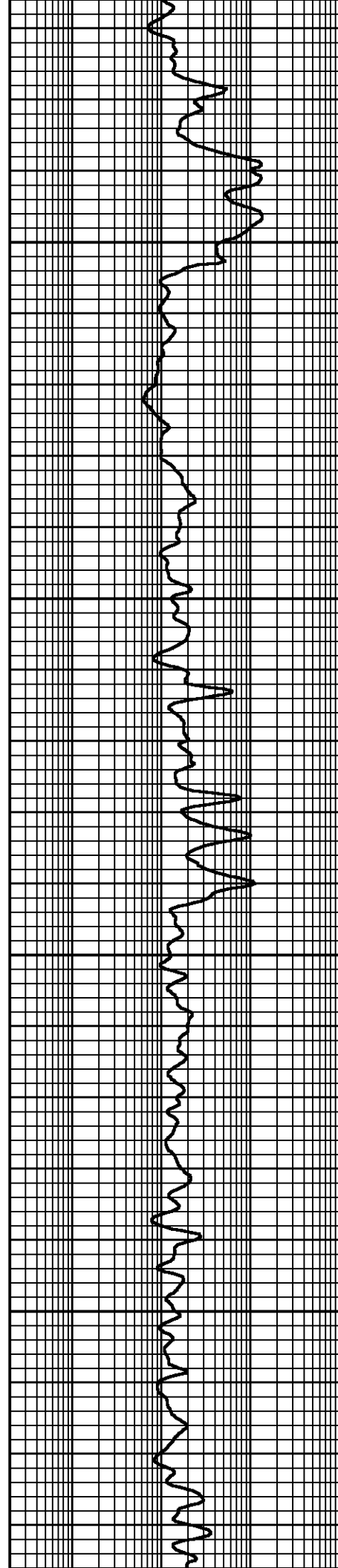
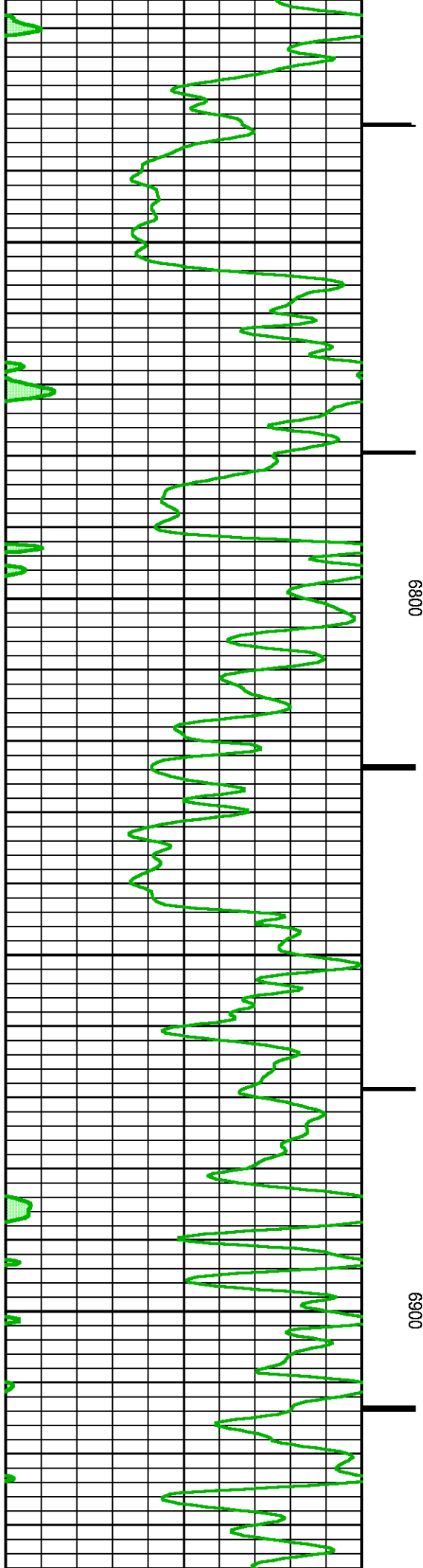


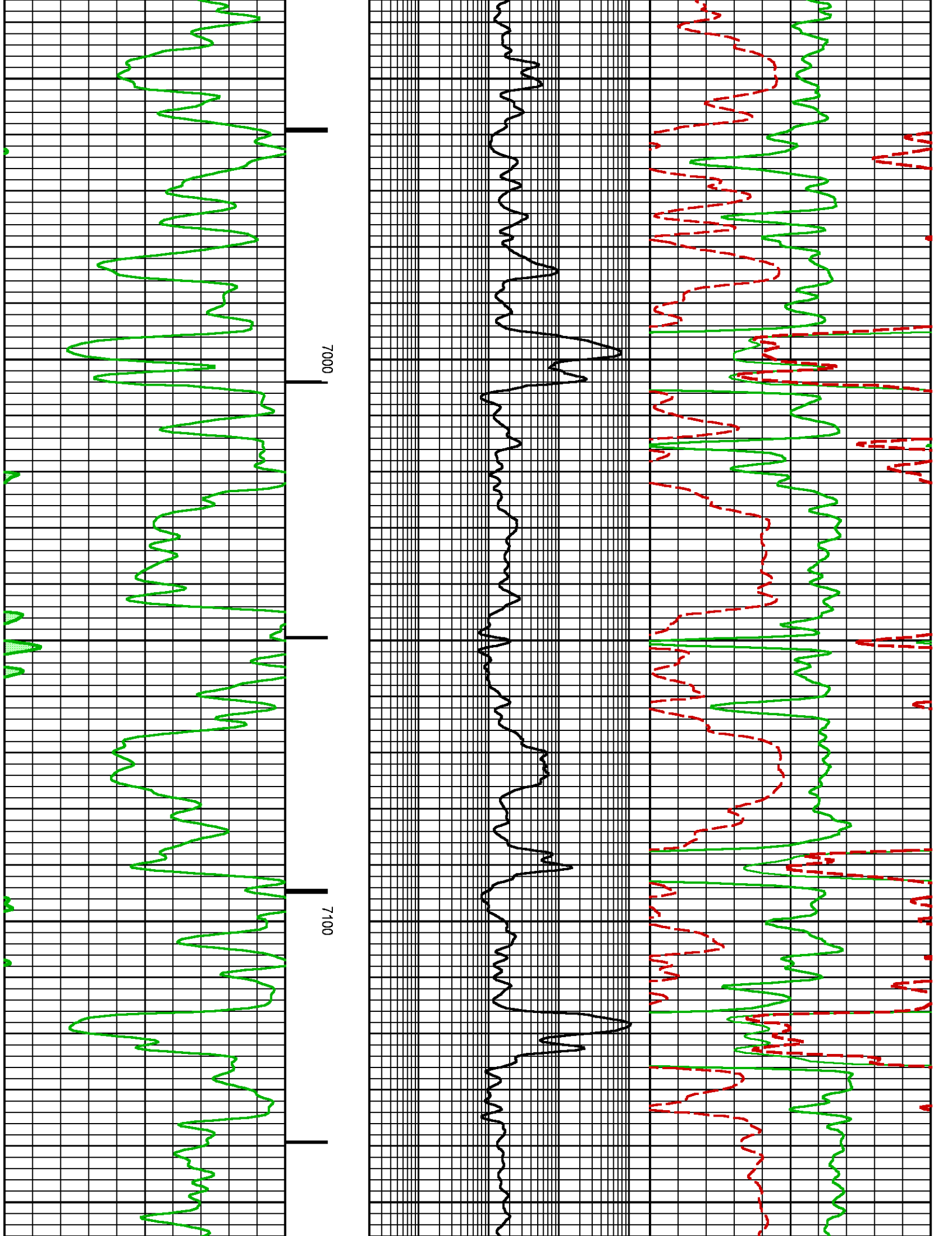


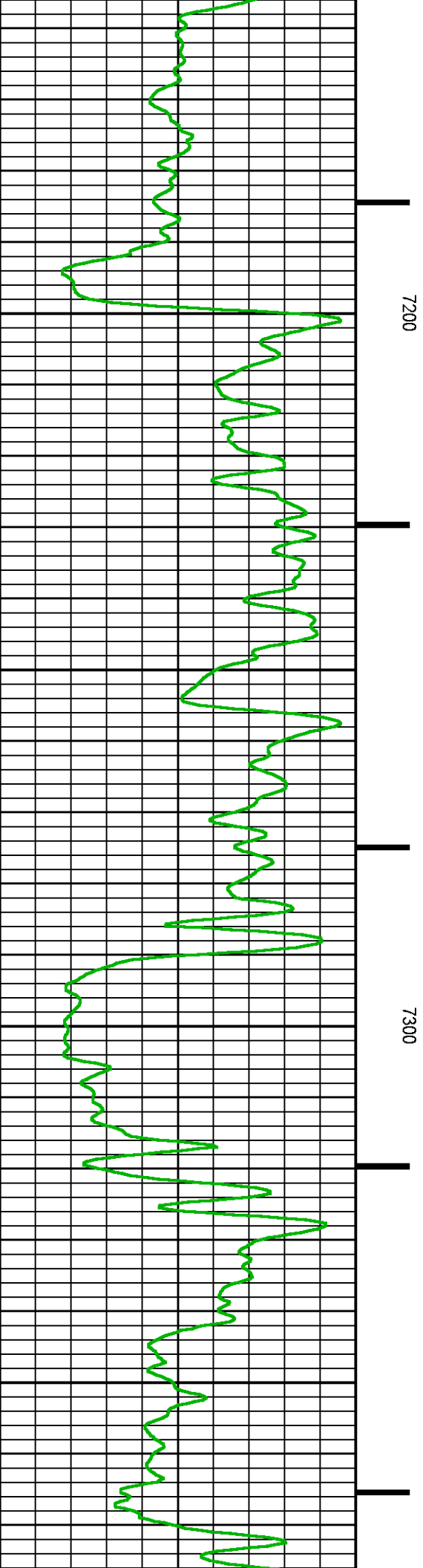
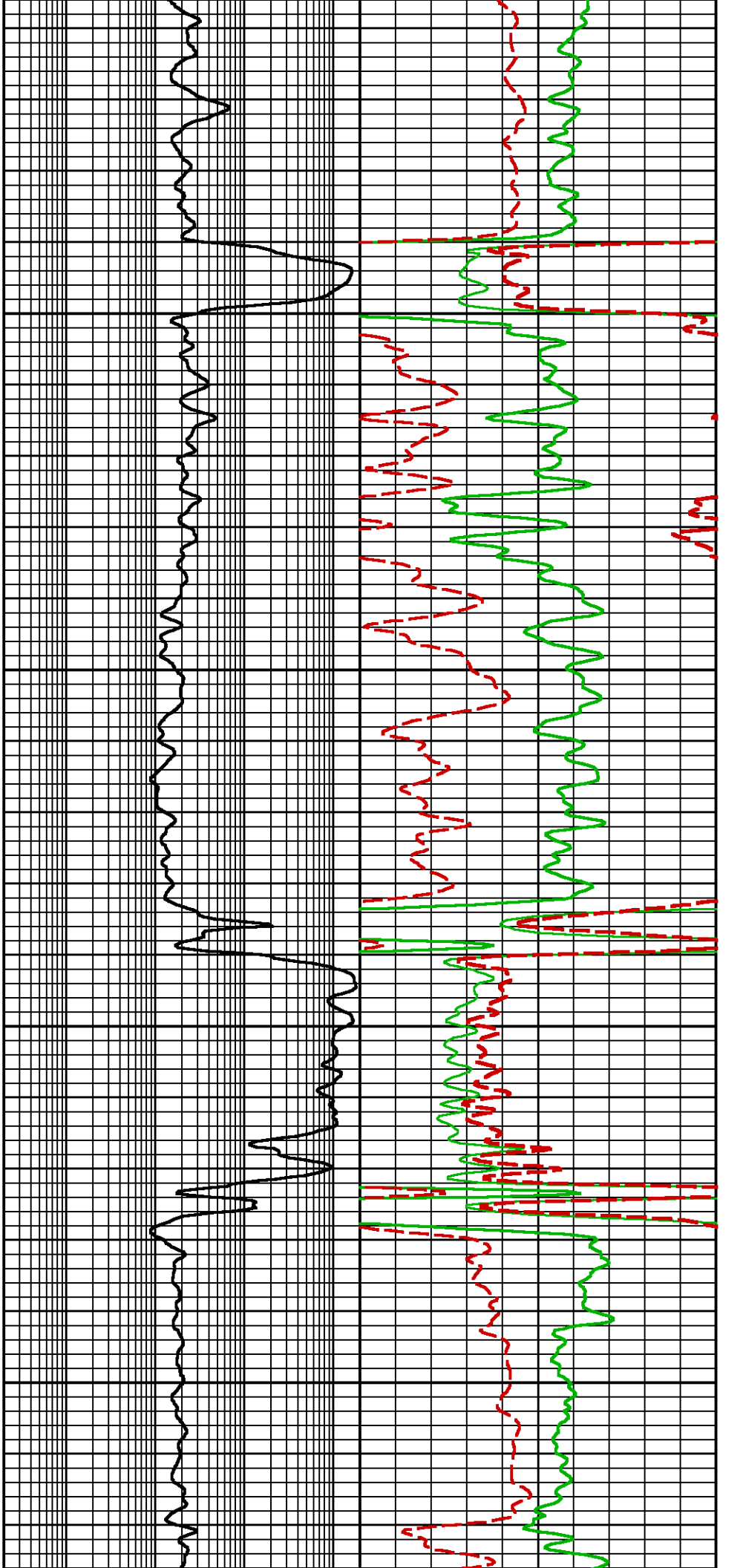


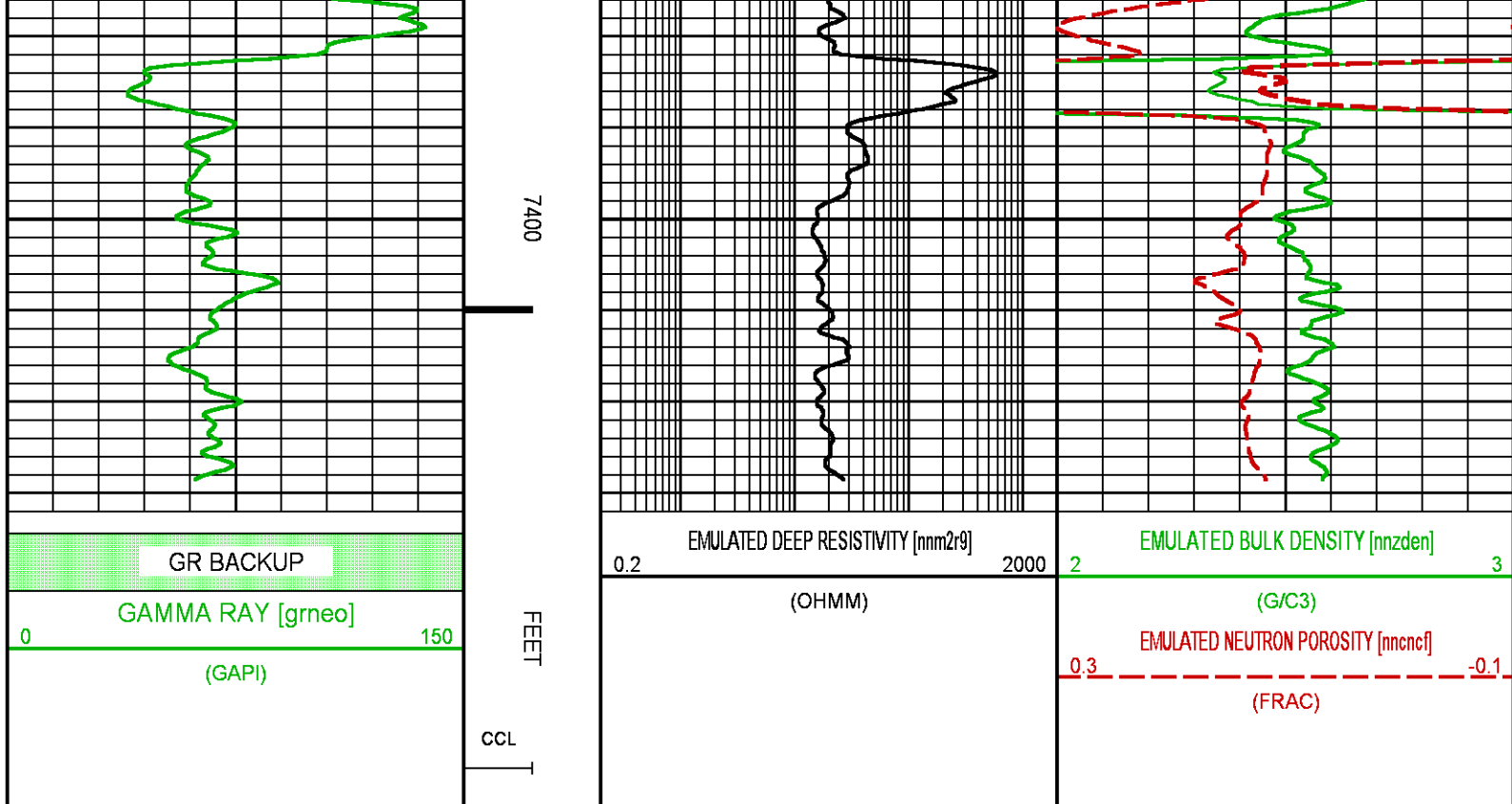



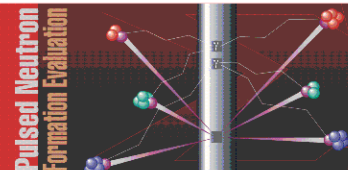










 	<b>COMPANY</b> <u>LARAMIE ENERGY LLC</u> <b>WELL</b> <u>NICHOLS 0994-24-06E</u> <b>FIELD</b> <u>VEGA</u> <b>COUNTY</b> <u>MESA</u> <b>STATE</b> <u>COLORADO</u>	<b>FILE NO:</b> <u>30149-01</u> <b>API NO:</b> <u>05077104050000</u>	
	<b>LOCATION:</b> <u>SEE REMARKS SECTION</u>	<b>ELEVATIONS:</b> KB <u>7161.0 FT</u> DF <u>7160.0 FT</u> GL <u>7137.0 FT</u>	
	<b>SEC</b> <u>24</u> <b>TWP</b> <u>9S</u> <b>RGE</b> <u>94W</u>	<b>DATE</b> <u>26-JAN-2018</u>	