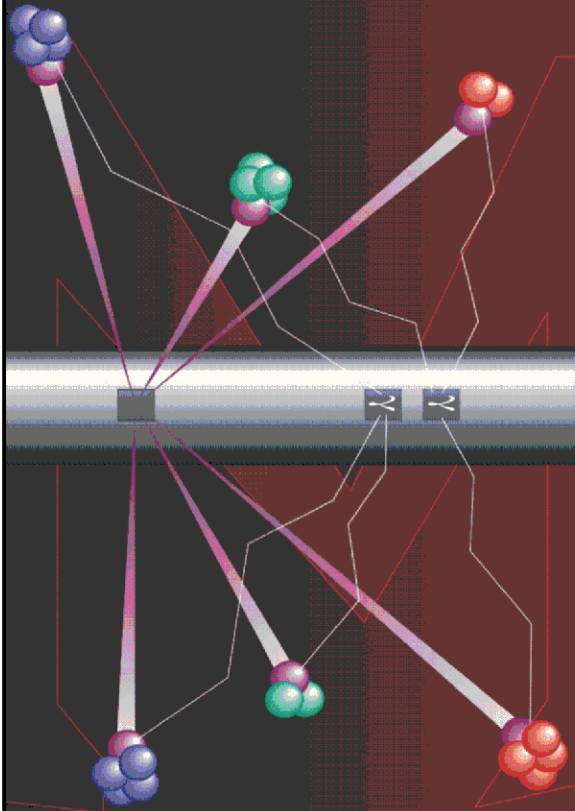


# Pulsed Neutron Formation Evaluation



## NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY II LLC

WELL NICHOLS 0994-24-02W

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS SECTION

SEC 24 TWP 9S RGE 94W

ELEVATIONS:

KB 7161 FT DF GL 7137 FT

DATE 12-Mar-2018 ECC US133004J

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>14-Mar-2018</u>
FIELD DATA	LOCATION: <u>GRAND JUNCTION</u>	ENGINEER: <u>R. ZUNIGA/US133004J</u>	DATE: <u>12-Mar-2018</u>
FROM	TO		
<u>2306 FT</u>	<u>7564 FT</u>		

### REMARKS

LOCATION:  
SHL 1792 FNL 2792 FEL  
BHL 352 FNL 1544 FEL

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

ANALYST: ALEXANDR KOTOV

## EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
2	1	TELEMETRY	8248 EA/8250 ED	111745584/10193585	FREE
2	1	GR	8262 XA	10317216	FREE
2	1	RPM ELEC	8281 EA	10179238	FREE
2	1	RPM	8283 PA/8281 FA	10190200/10318654	FREE
2	1	TEMP	8255 XA	11774568	FREE

## NEO RESULTS FOR NICHOLS 0994-24-02W (G-SAND)

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

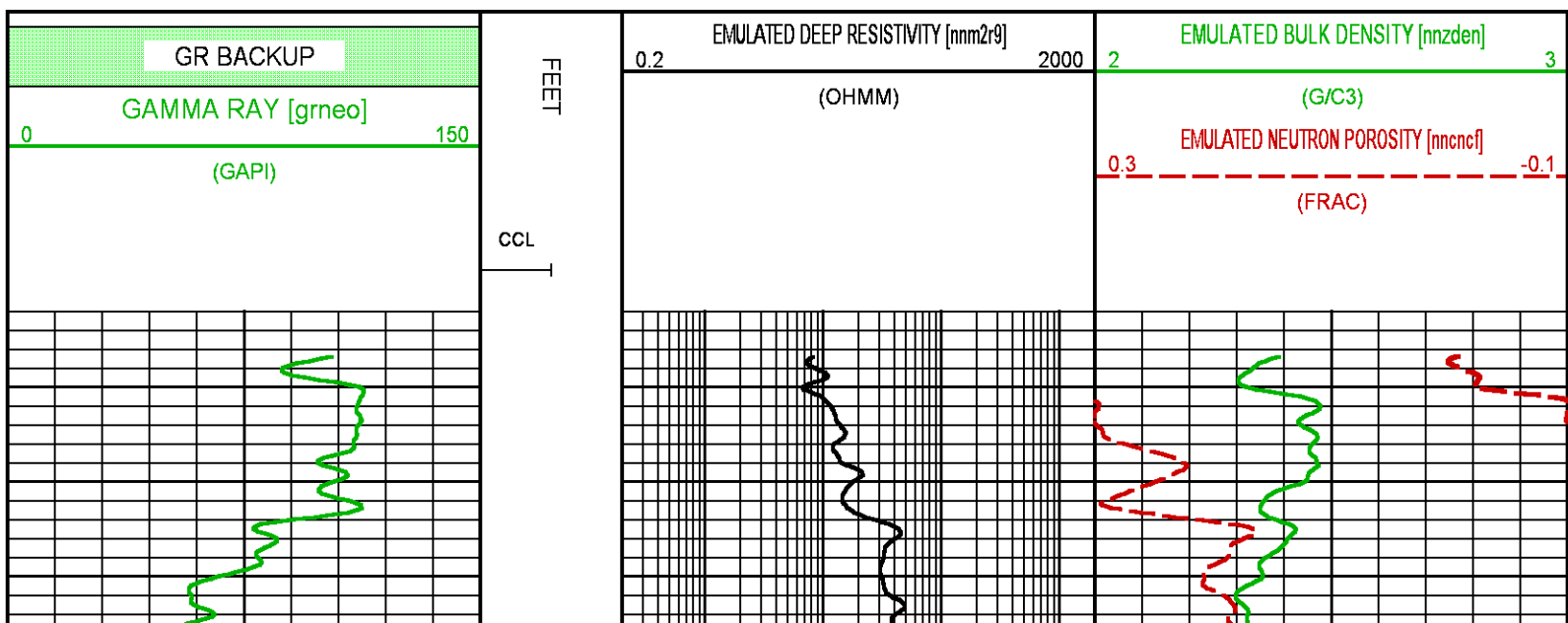
Plotted: Wed Mar 14 11:27:50 2018

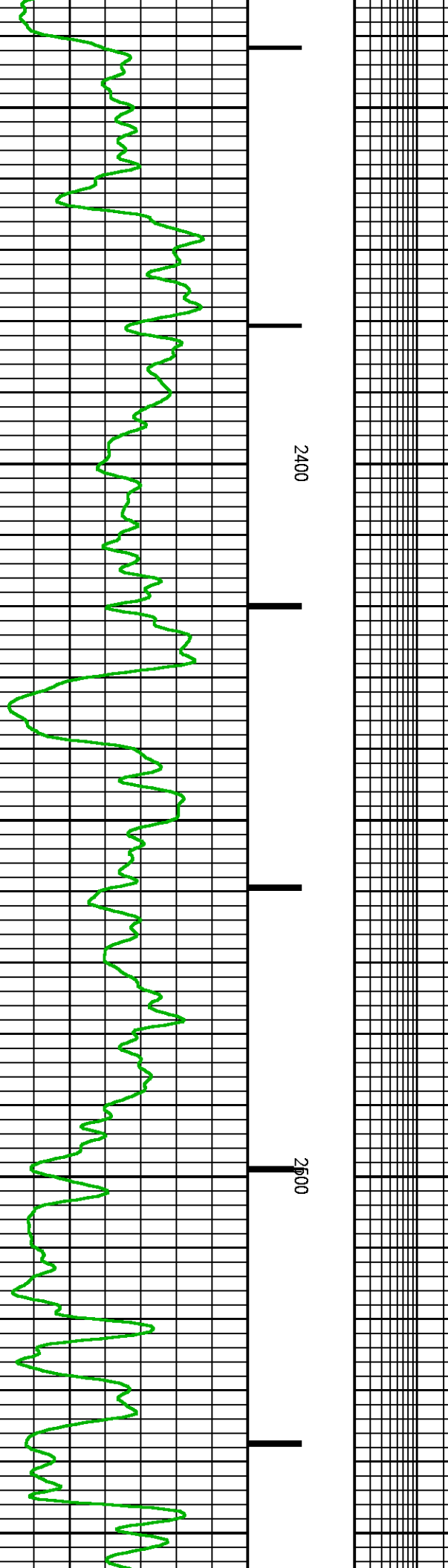
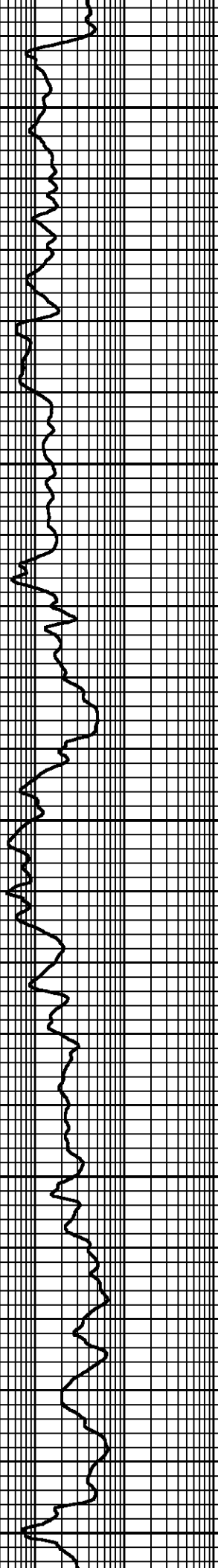
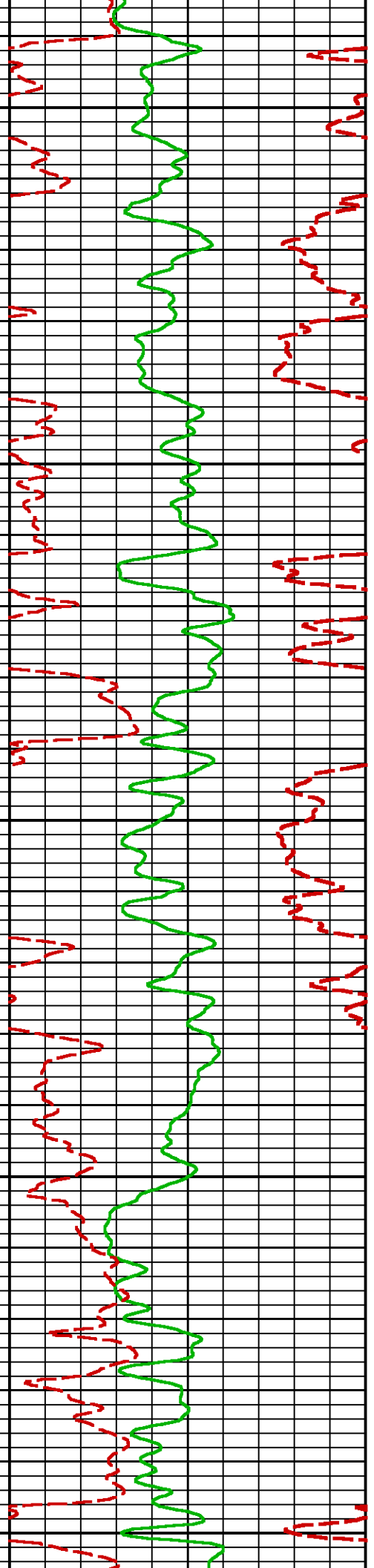
## CURVE MEASURE POINT OFFSET

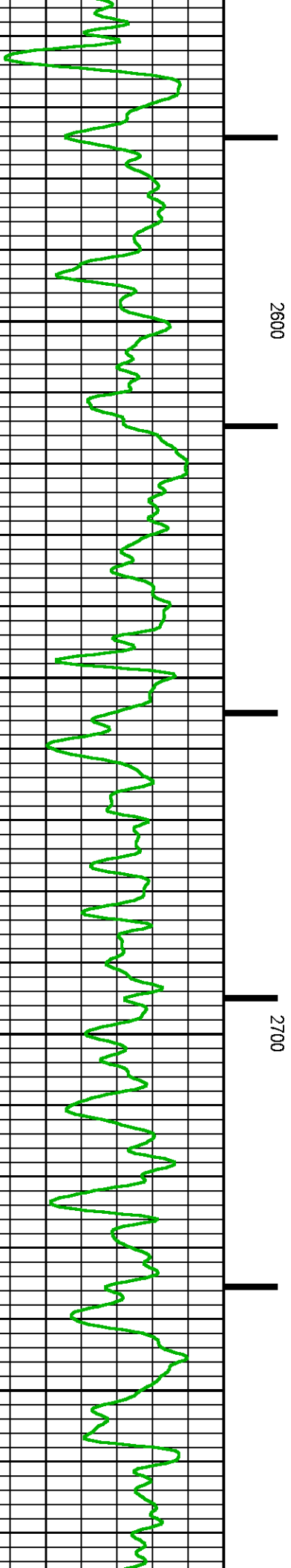
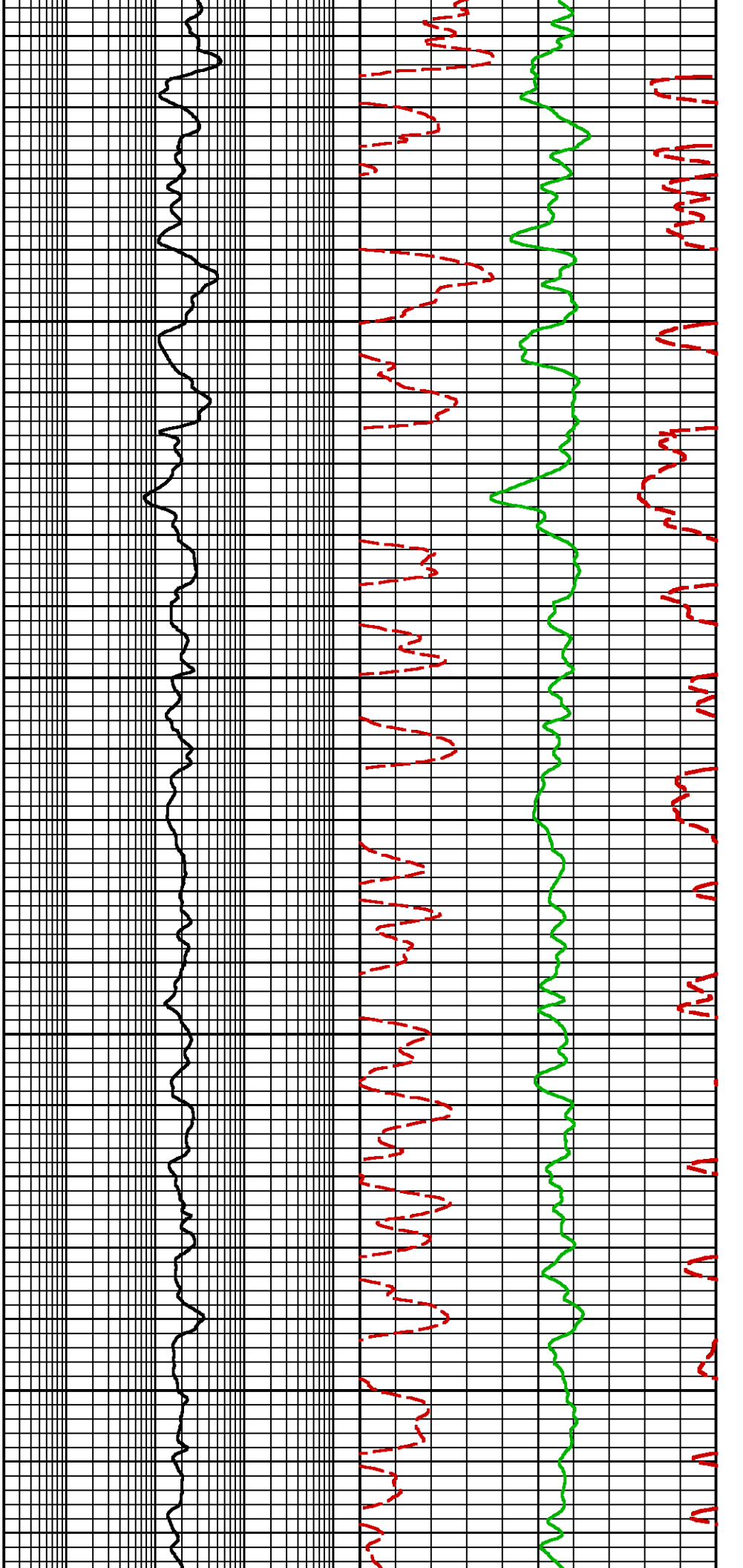
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNCf	0.00	NNZDEN	0.00		
GRNEO	0.00	NNM2R9	0.00				

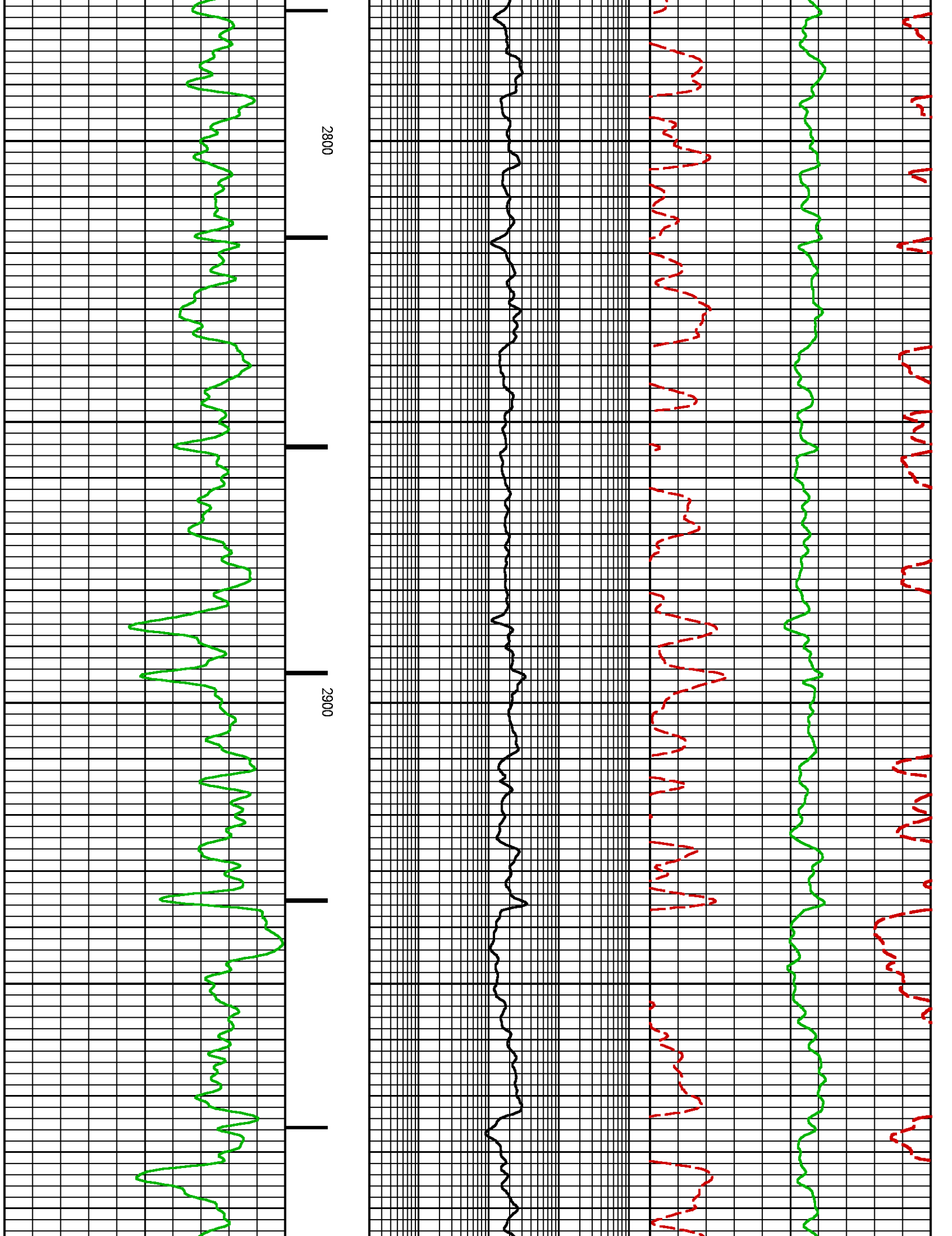
Project : NA  
User : kotoale  
Presentation : BHI1F65XZ1:d:\Ape\_Projects\Laramie\_NICHOLS\_0994\_24\_02W\_NEO\NEO\_PRESENTATION\_LARAMIE\_G-Sand.pdf [5"/100' Scale]  
Plot Interval : 2303 - 3014 Feet

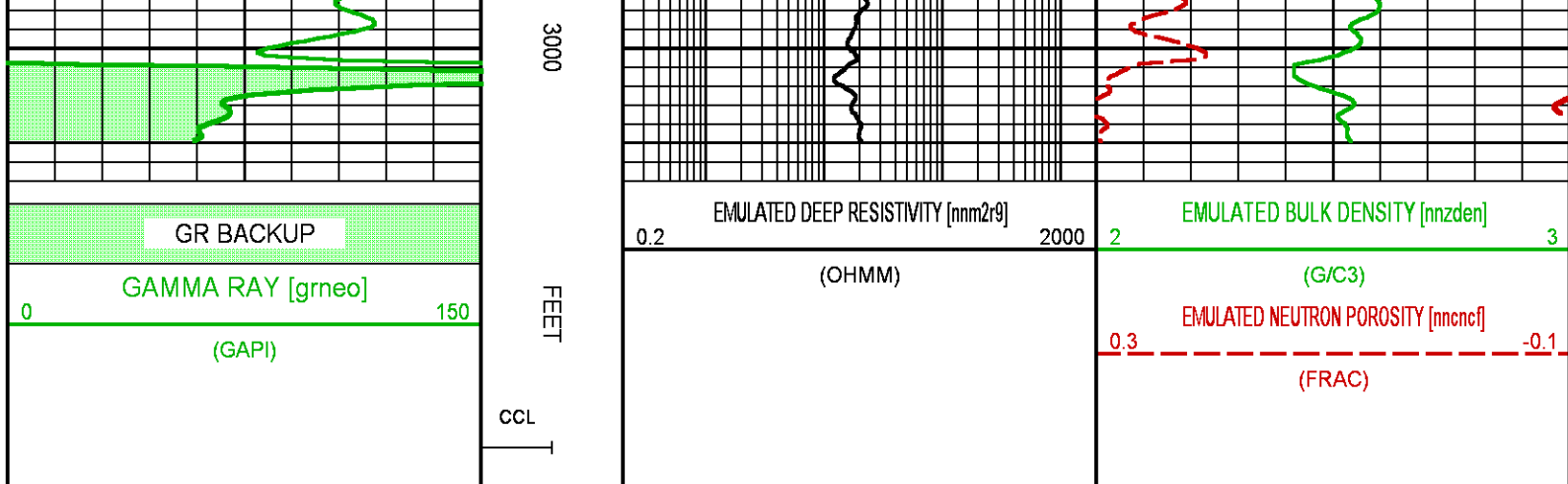
Data File 1 : F1 : BHI1F65XZ1:D:\Ape\_Projects\Laramie\_NICHOLS\_0994\_24\_02W\_NEO\Merged\_Set\_Final.xtf  
Created On : N/A  
Company : LARAMIE ENERGY II LLC  
Well : NICHOLS 0994-24-02W  
Field : VEGA  
File Interval : 2306.75 - 7564.75 Feet  
OCT : NA











## NEO RESULTS FOR NICHOLS 0994-24-02W (MAIN)

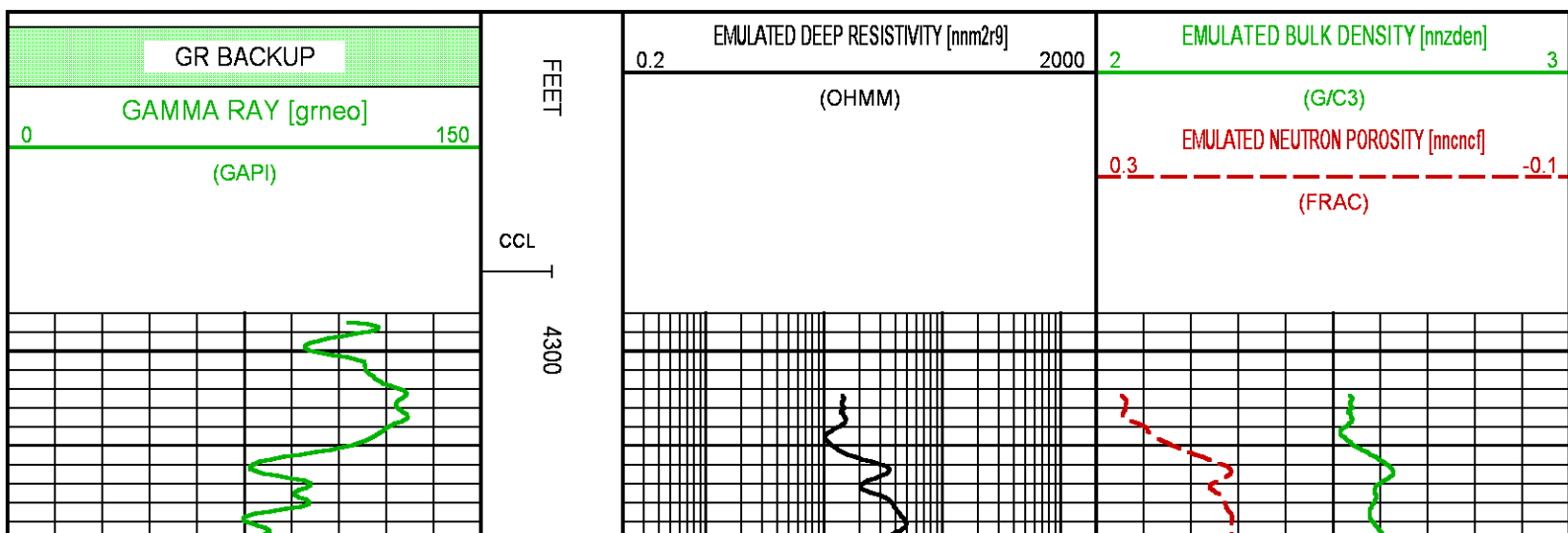
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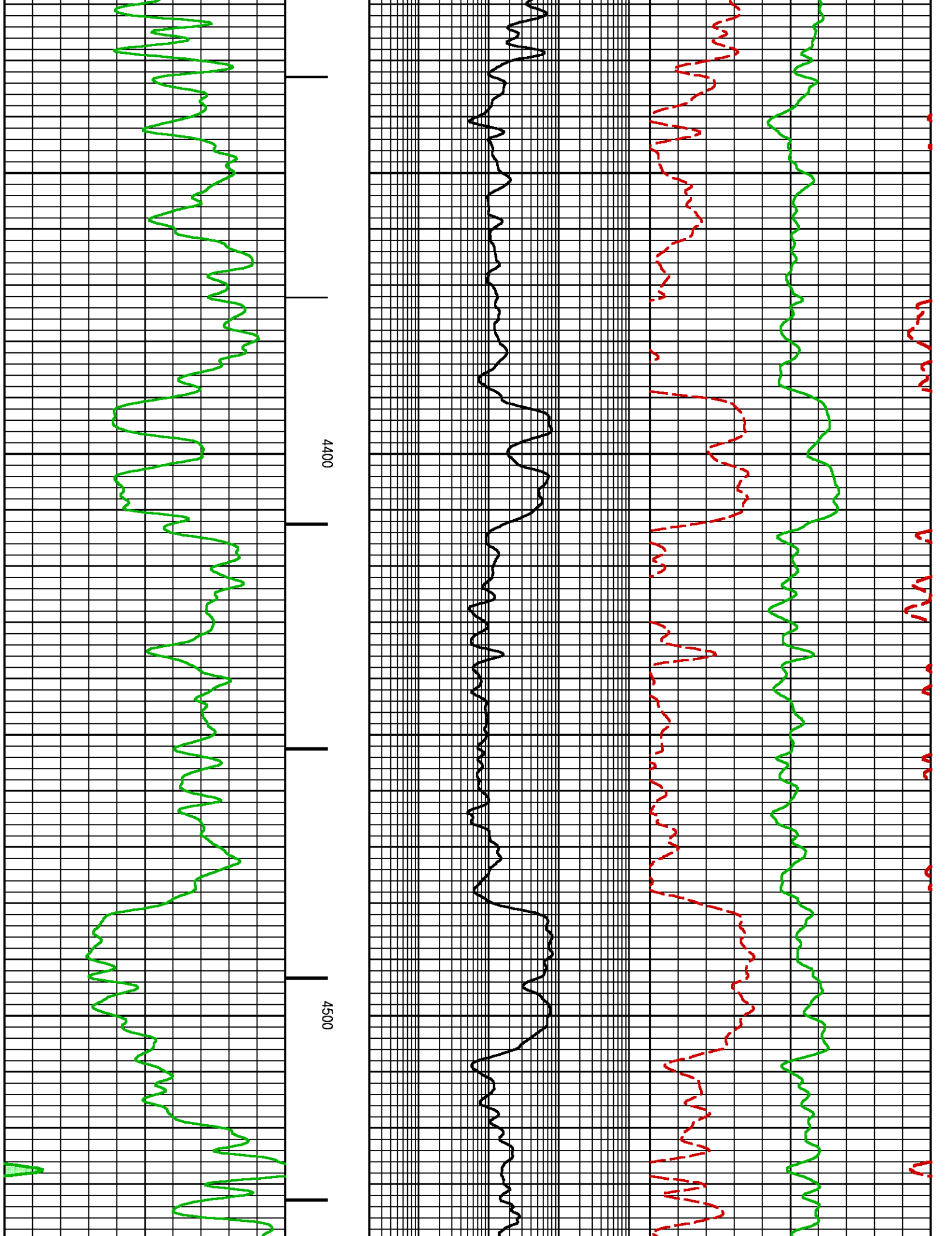
Plotted: Wed Mar 14 11:30:27 2018

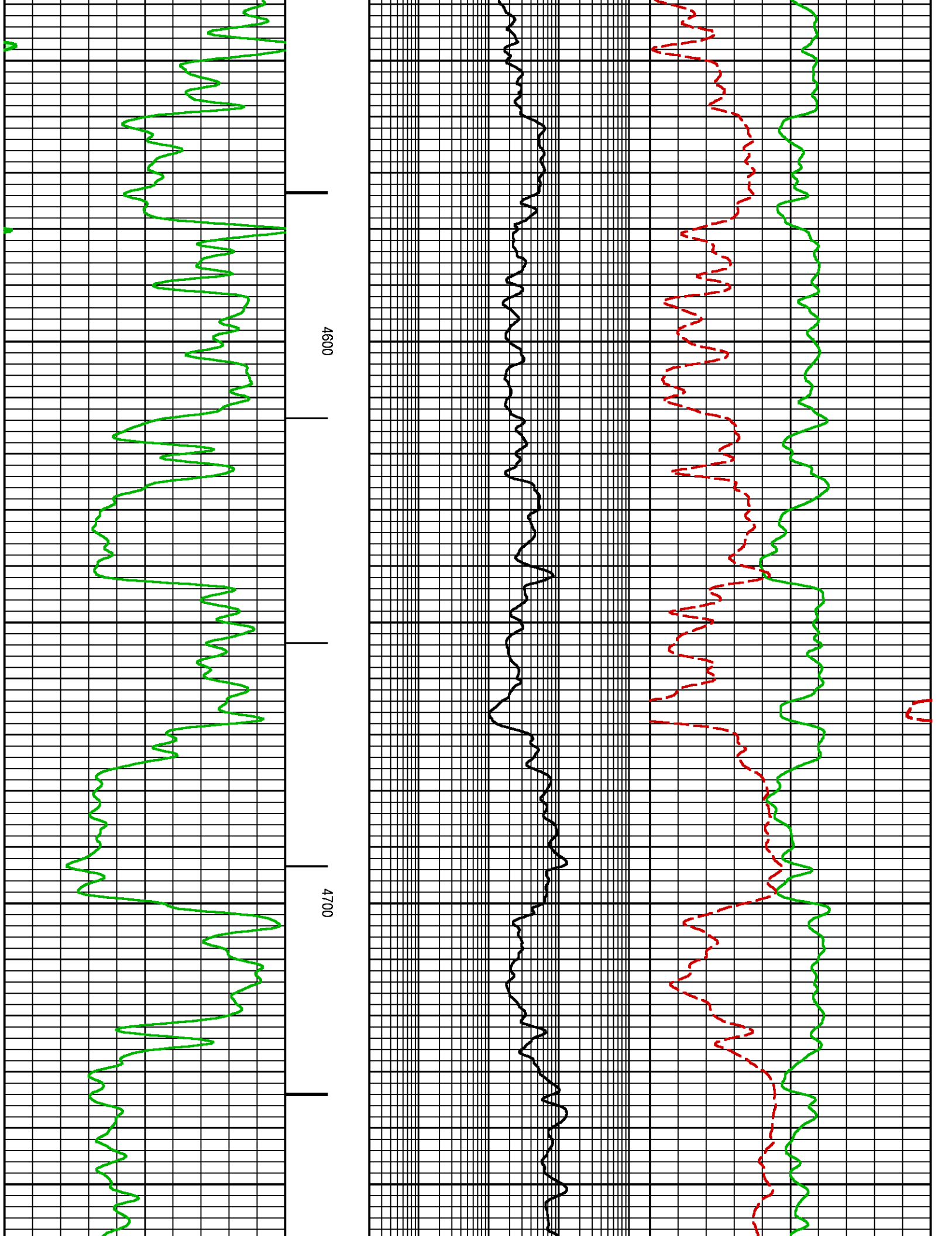
### CURVE MEASURE POINT OFFSET

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

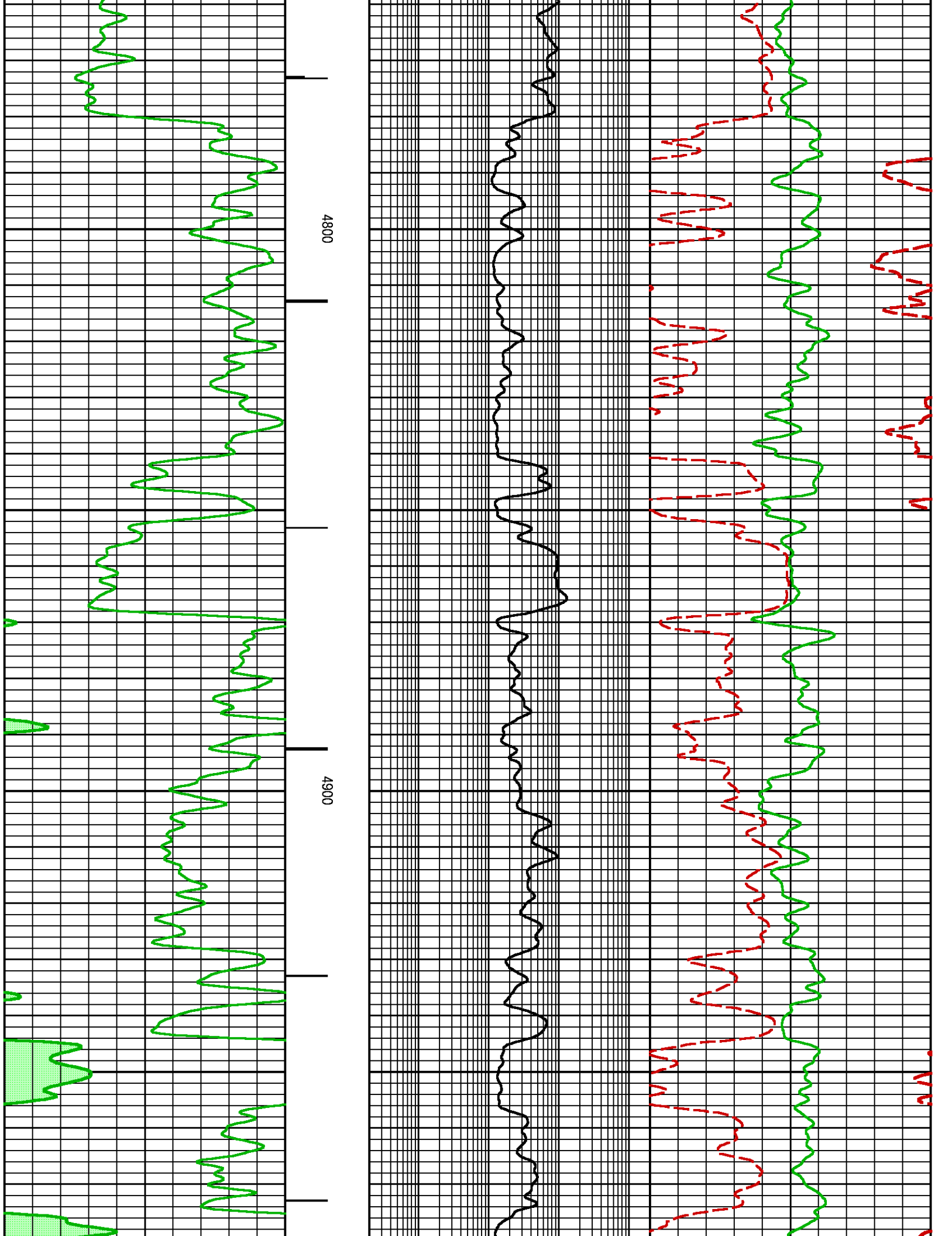
**Project** : NA  
**User** : kotoale  
**Presentation** : BHI1F65XZ1:d:\Ape\_Projects\Laramie\_NICHOLS\_0994\_24\_02W\_NEO\NEO\_PRESENTATION\_LARAMIE\_MAIN.pdf [5"=100' Scale]  
**Plot Interval** : 4297 - 7564.75 Feet  
**Data File 1** : F1 : BHI1F65XZ1:D:\Ape\_Projects\Laramie\_NICHOLS\_0994\_24\_02W\_NEO\Merged\_Set\_Final.xtf  
**Created On** : N/A  
**Company** : LARAMIE ENERGY II LLC  
**Well** : NICHOLS 0994-24-02W  
**Field** : VEGA  
**File Interval** : 2306.75 - 7564.75 Feet  
**OCT** : NA

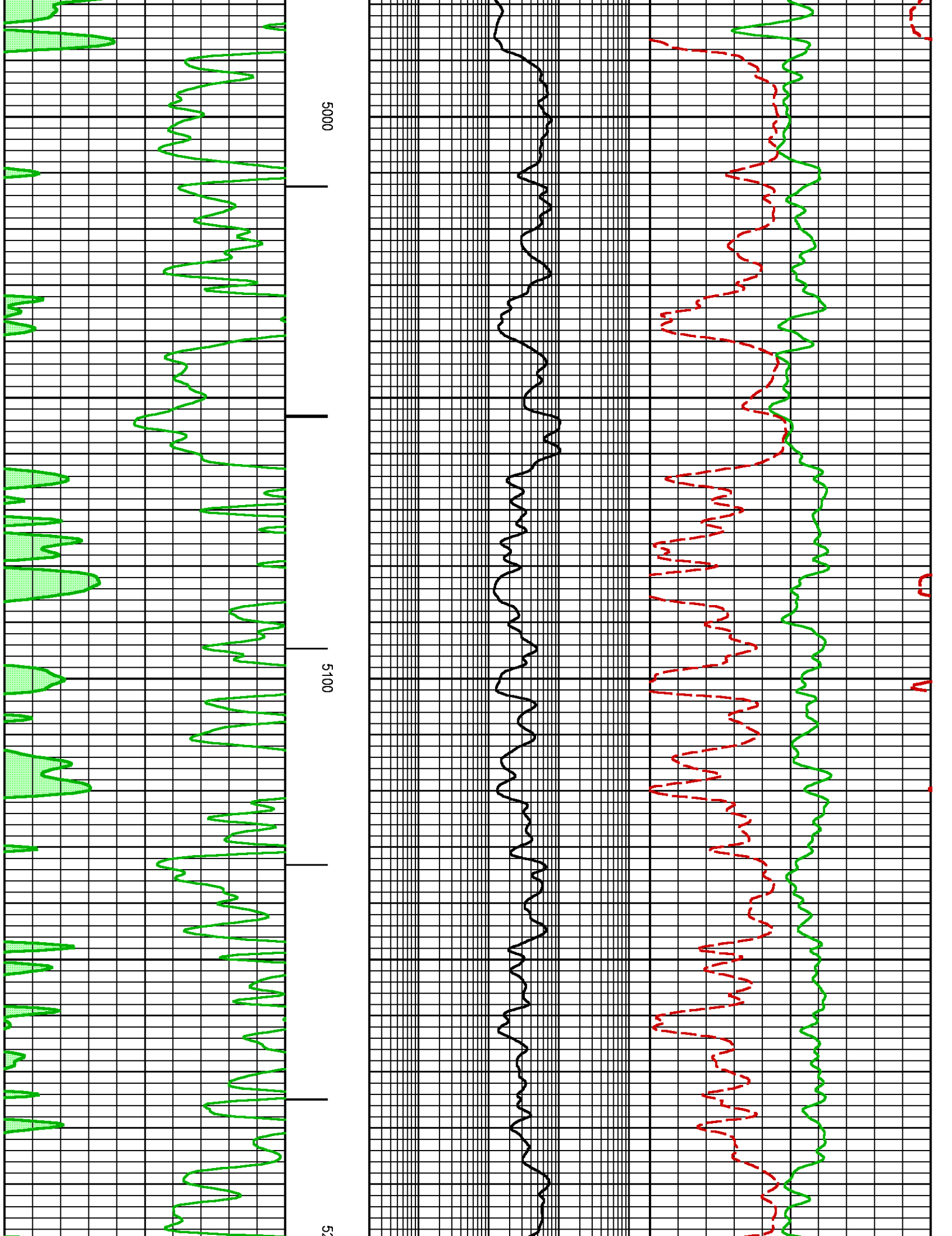


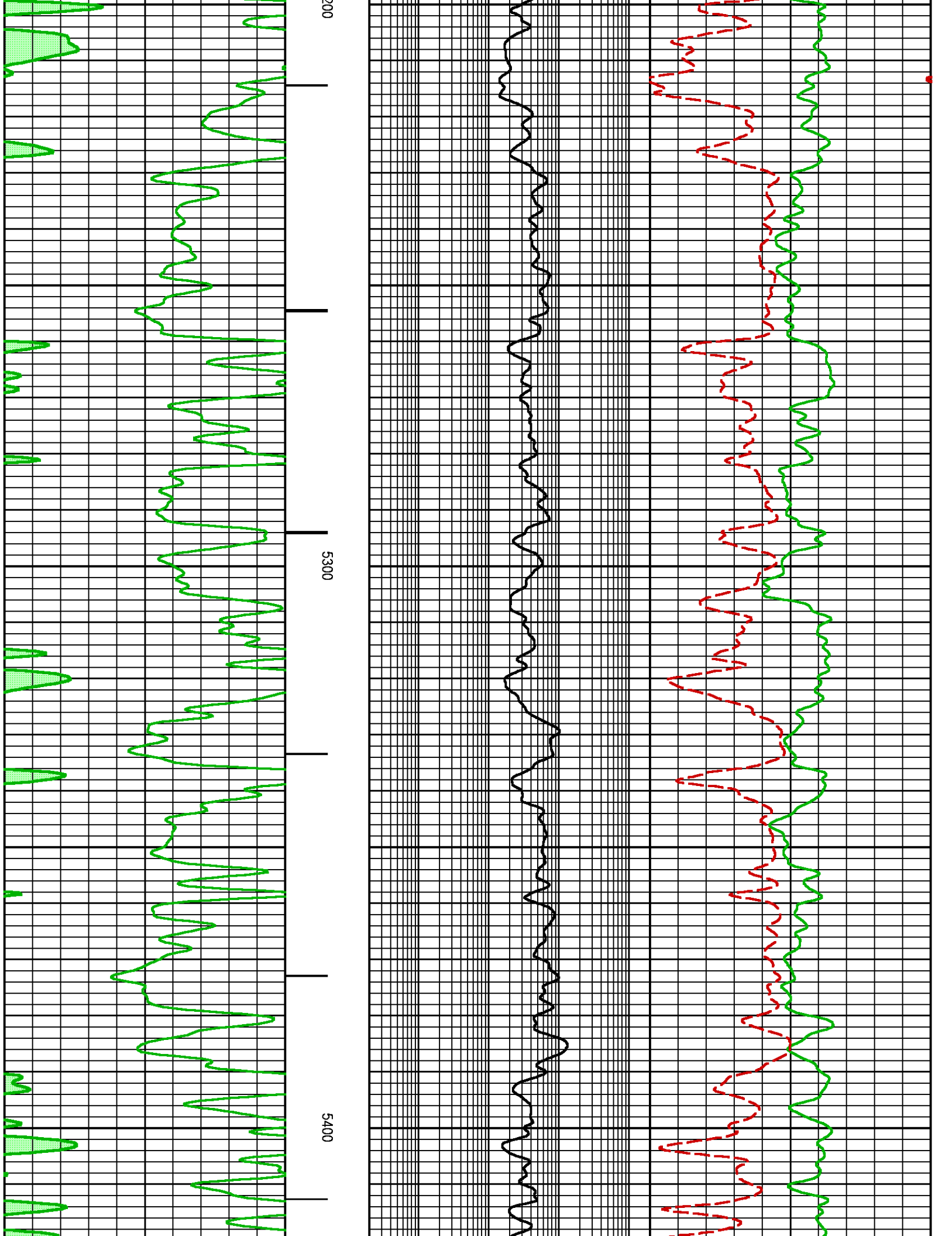


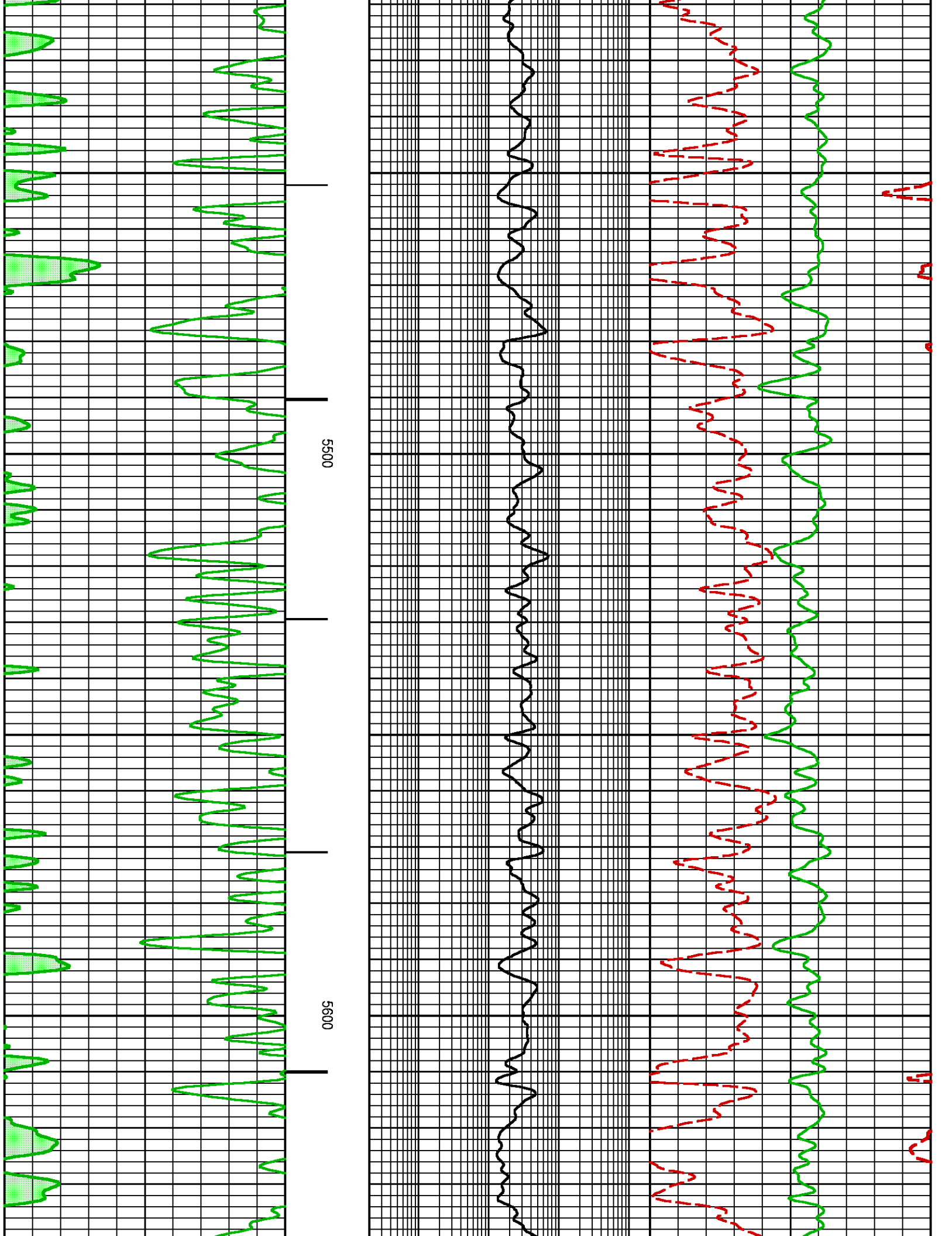


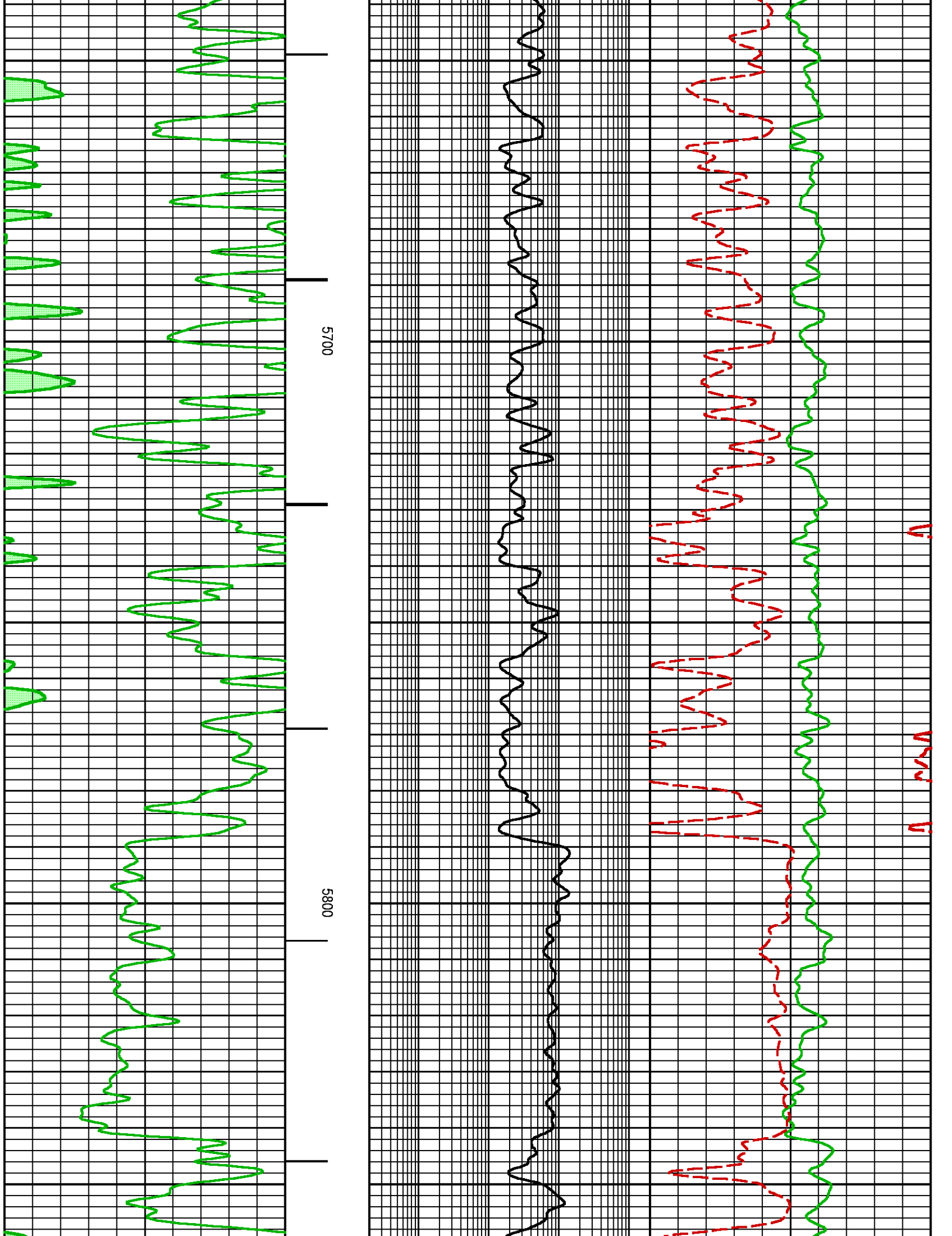


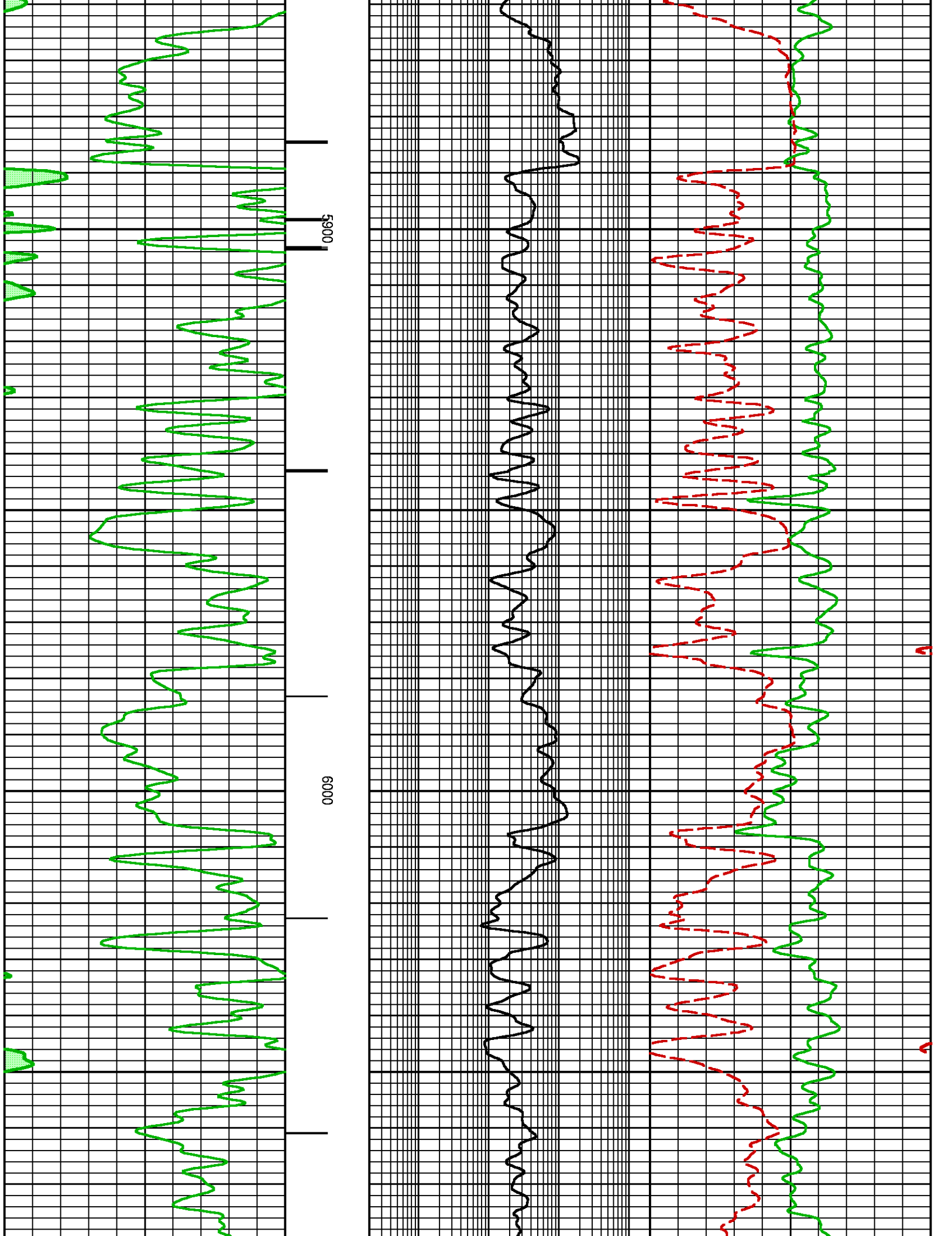


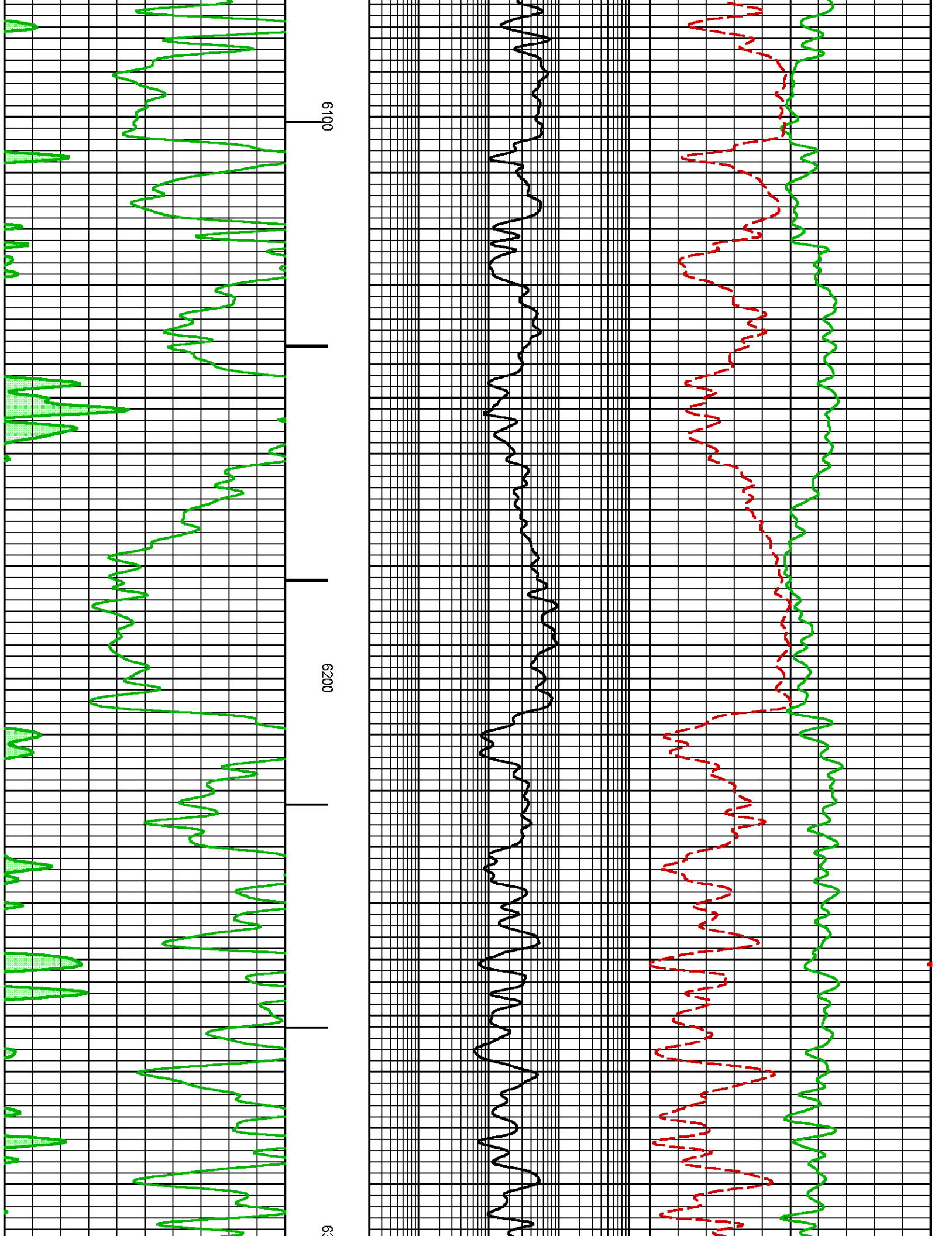


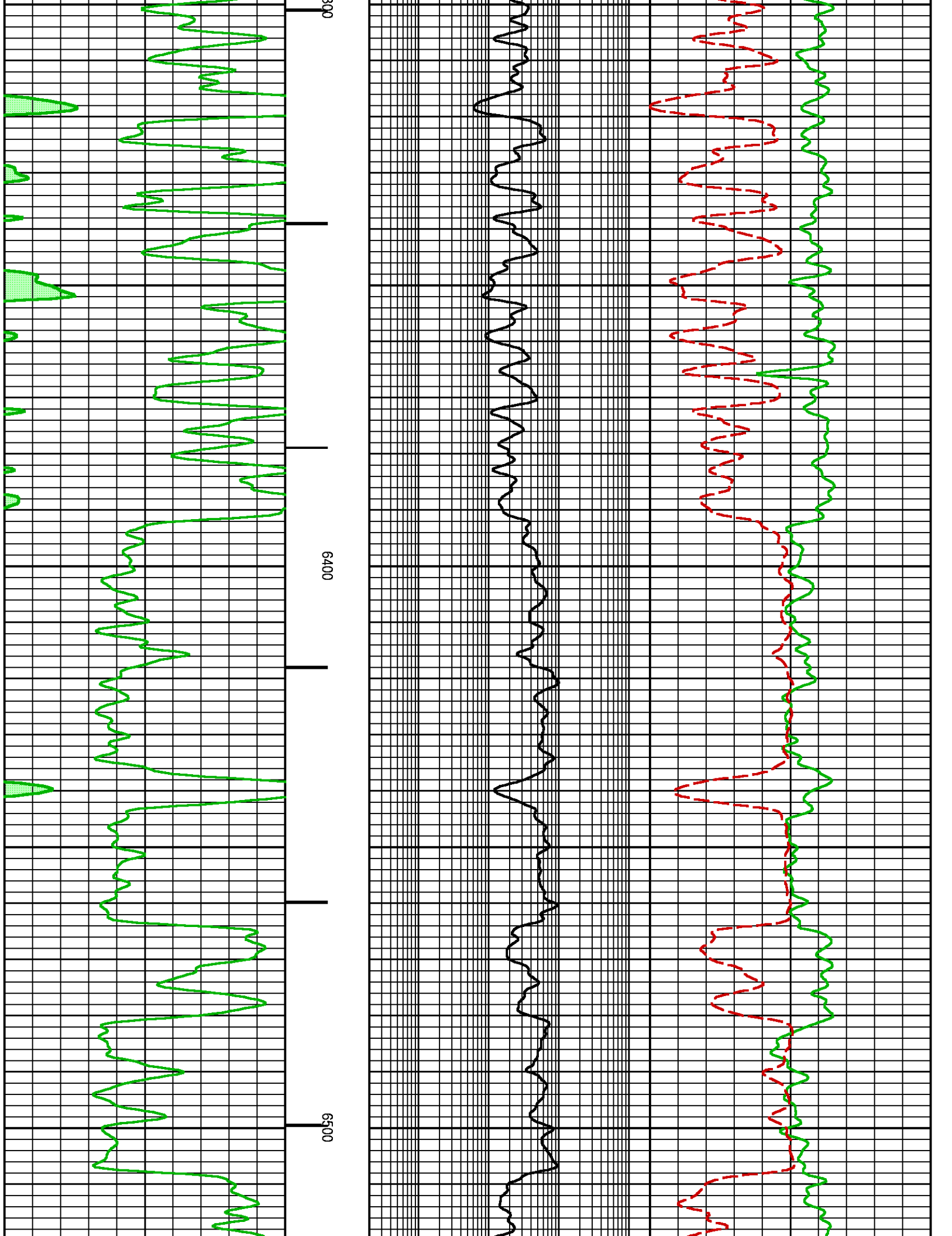




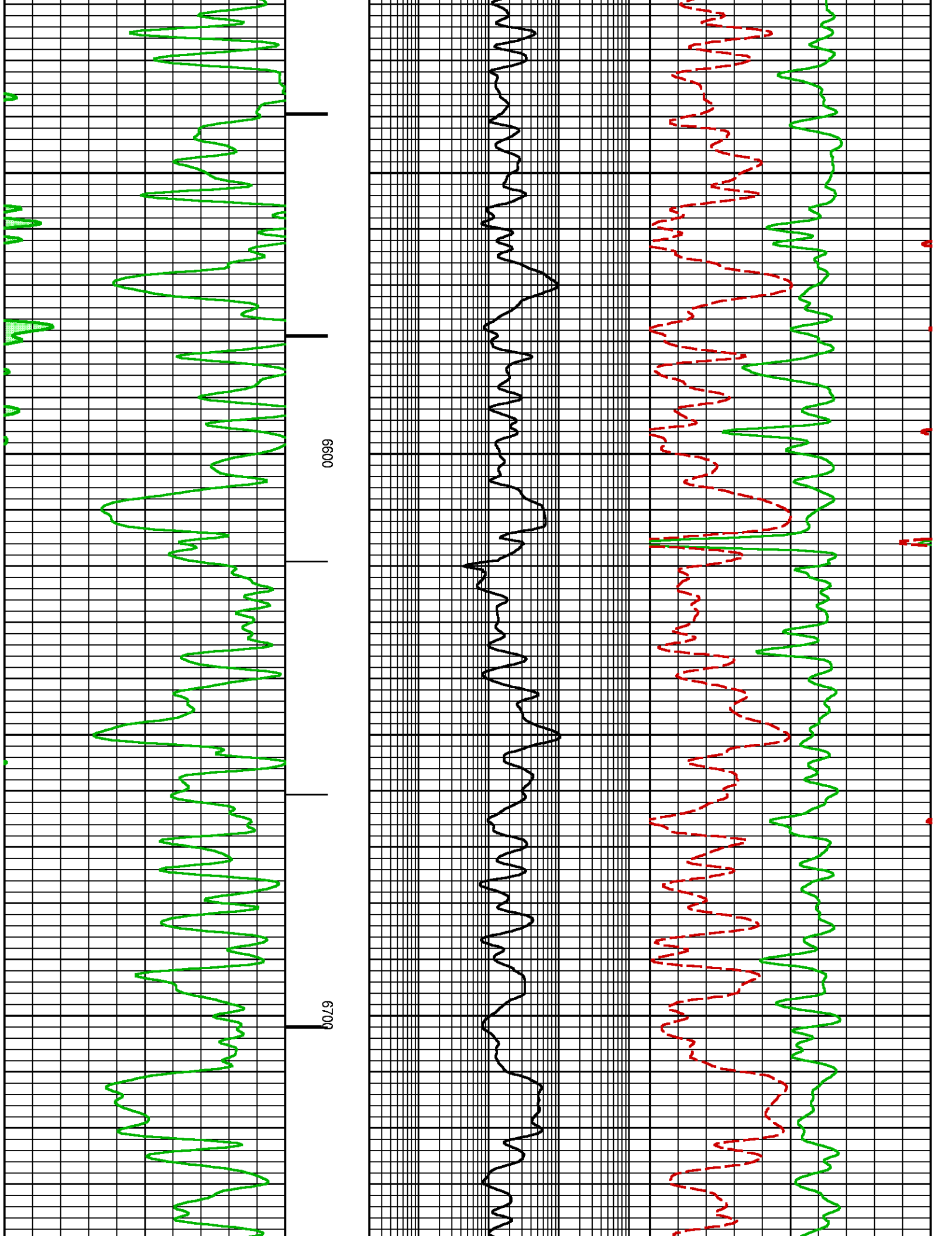


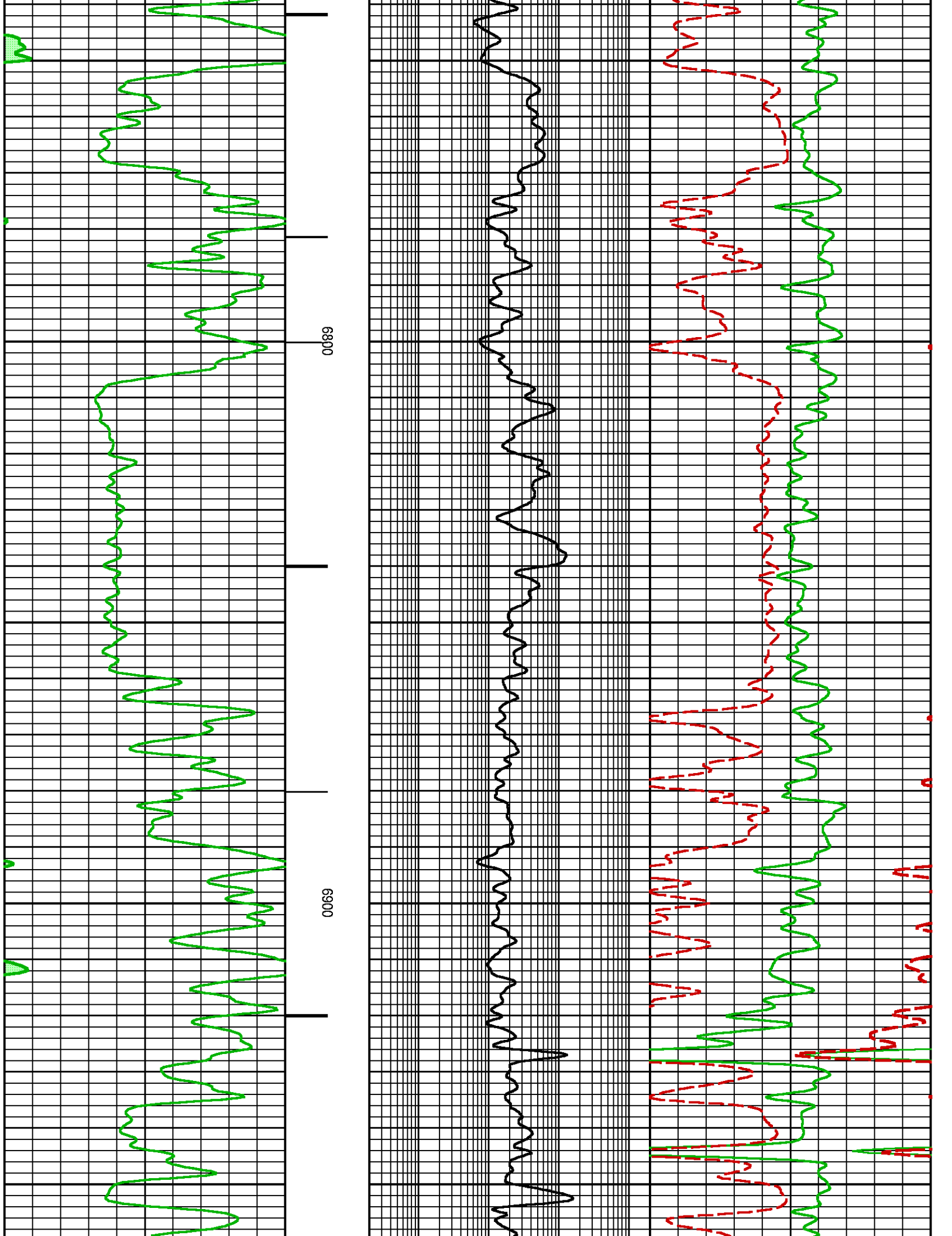


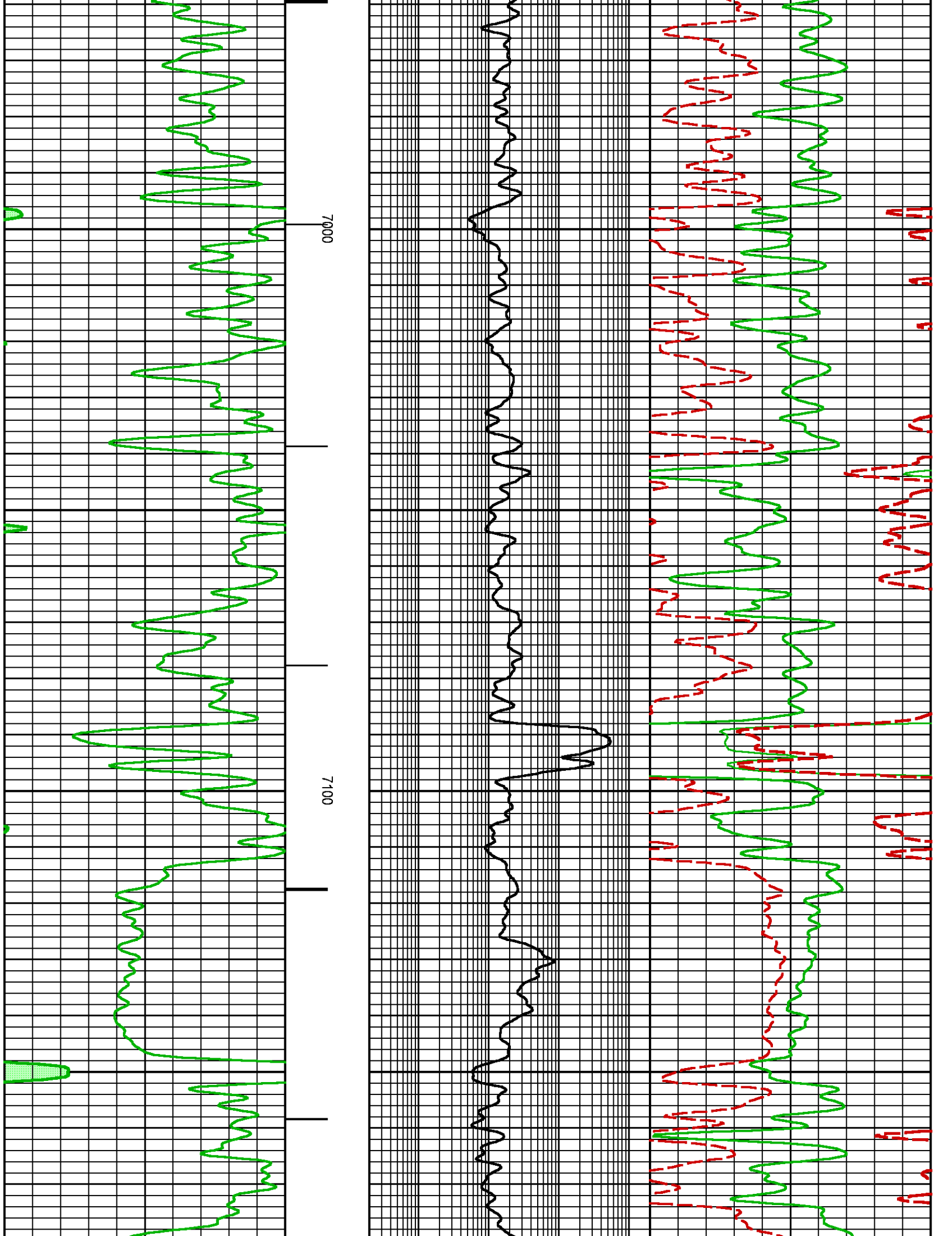


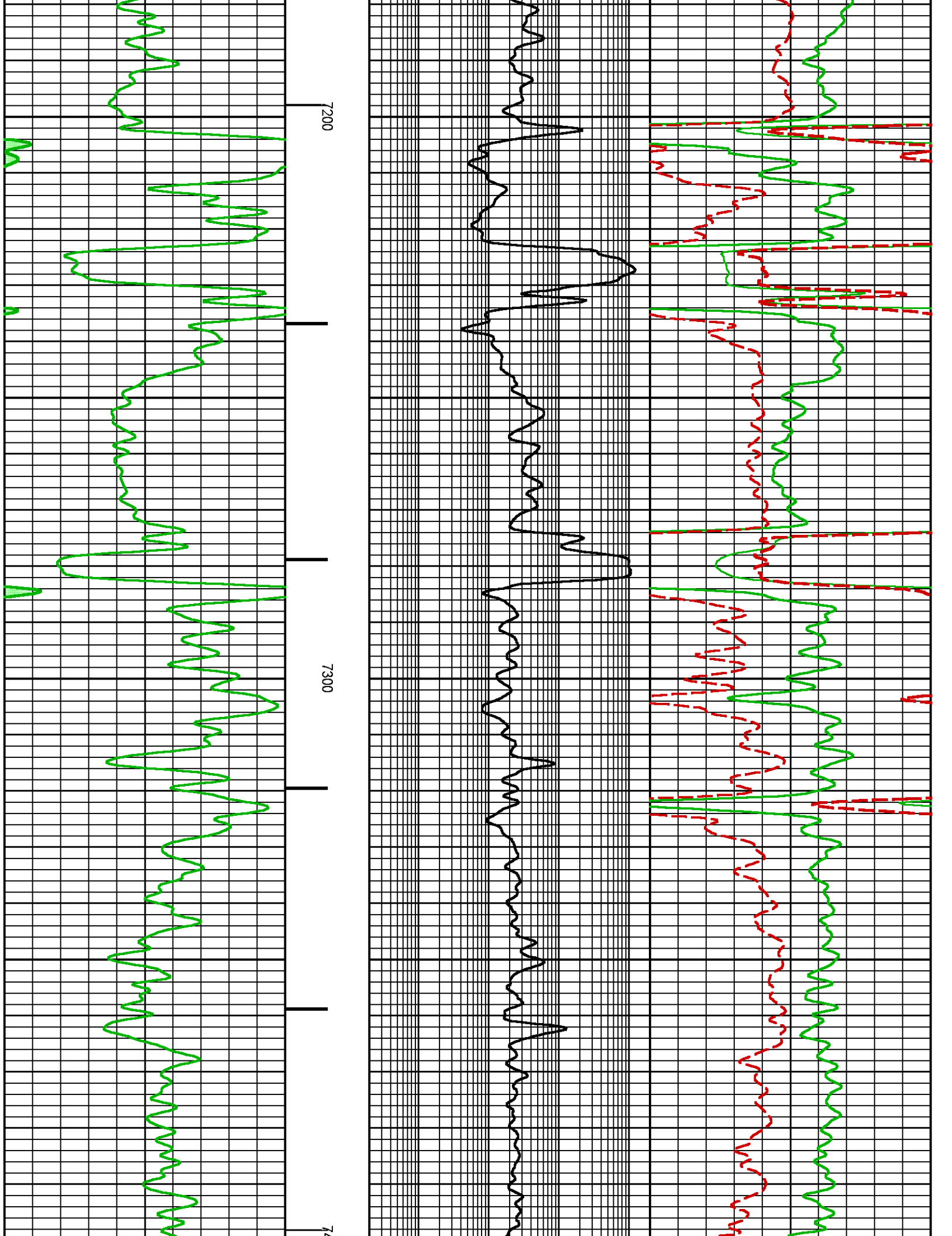


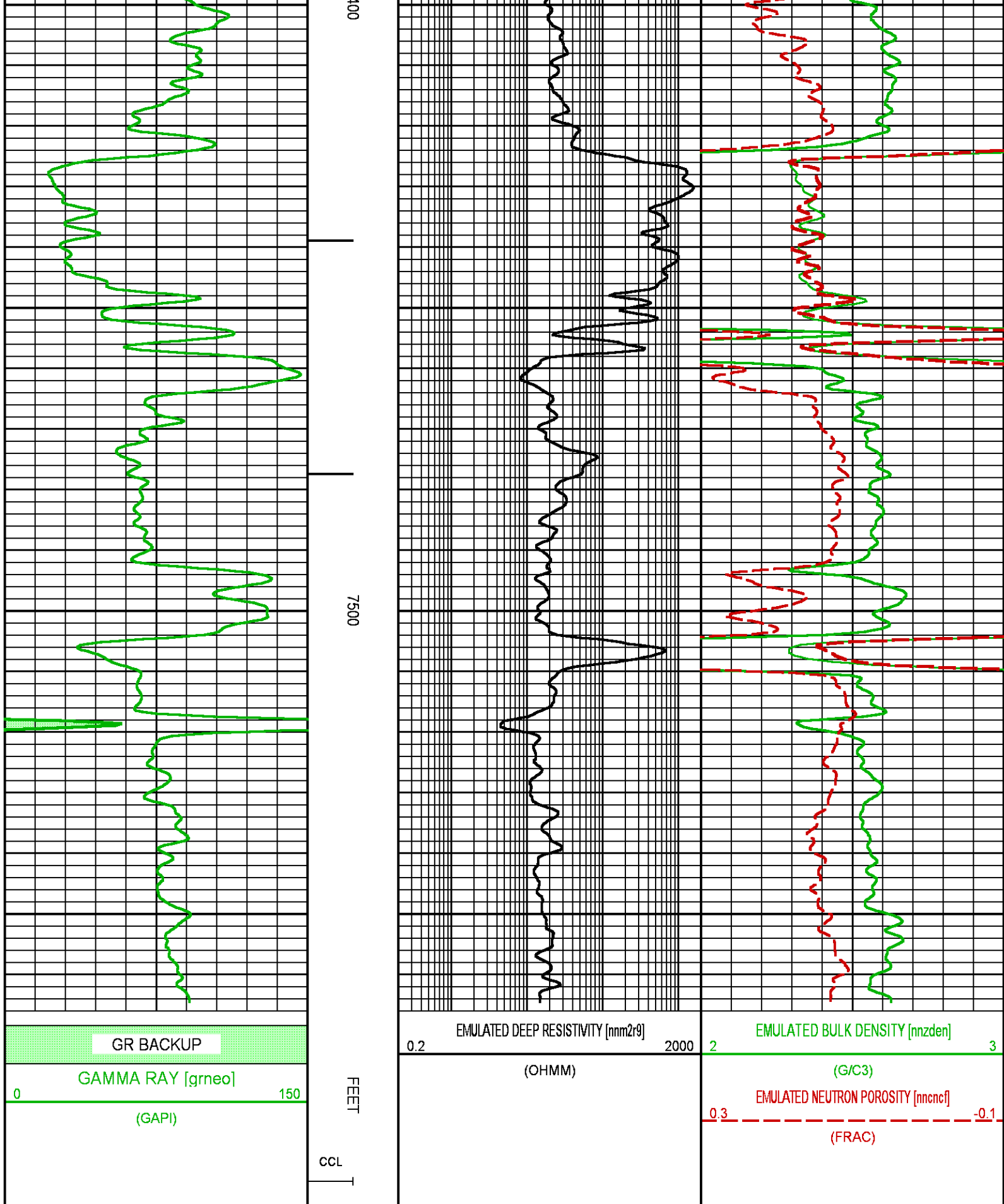


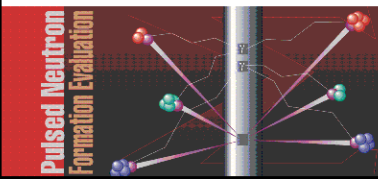













FIELD <u>VEGA</u>		API NO: <u>05077104020000</u>
COUNTY <u>MESA</u>	STATE <u>COLORADO</u>	
LOCATION:  SEE REMARKS SECTION BHL 589' FNL 1521' FEL		ELEVATIONS: KB 7161 FT DF GL 7137 FT
SEC <u>24</u>	TWP <u>9S</u>	DATE 12-Mar-2018
RGE <u>94W</u>		