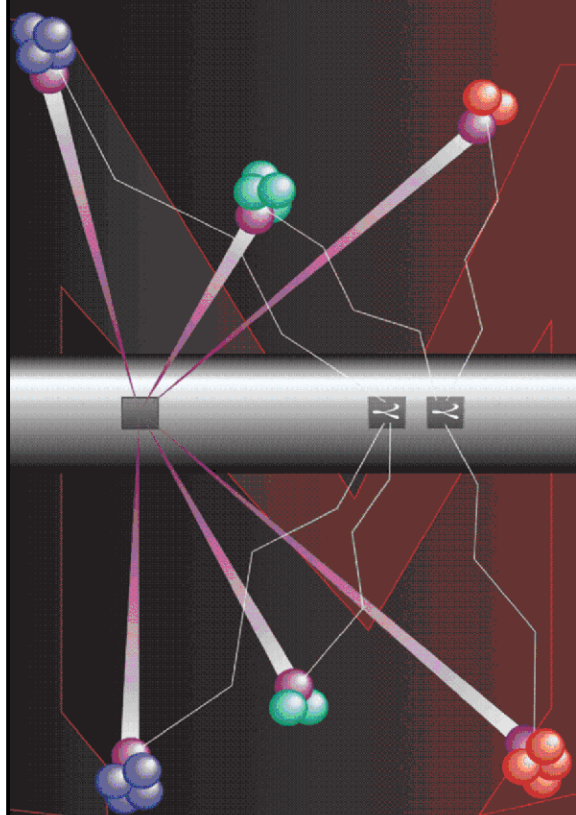




# Pulsed Neutron Formation Evaluation



## NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY

WELL PICEANCE 28-07M

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION: SEE REMARKS SECTION

SEC 28 TWP 9S RGE 93W

ELEVATIONS:

KB 7600 FT DF GL 7578 FT

DATE 21-OCT-2015 ECC 21004-01

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 GEOSCIENCES</u>	LOG ANALYST: <u>SEB. KAMGANG</u>	DATE: <u>21-OCT-2015</u>
FIELD DATA	LOCATION: <u>GRAND JCT</u>	ENGINEER: <u>EDWARDS / US100248</u>	DATE: <u>19-OCT-2015</u>
FROM	TO		
<u>2620 FT</u>	<u>3114 FT</u>		
<u>4820 FT</u>	<u>7945 FT</u>		

### REMARKS

LOCATION:  
SHL: LAT 39.250975 LONG: -107.779419  
BHL: LAT 39.250839 LONG: -107.774667

TRAINING WELL: PICEANCE 28-09W

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

BOND LOG IS DEPTH REFERENCE LOG

# NEO RESULTS FOR LARAMIE PICEANCE 28-07M (G-SAND)

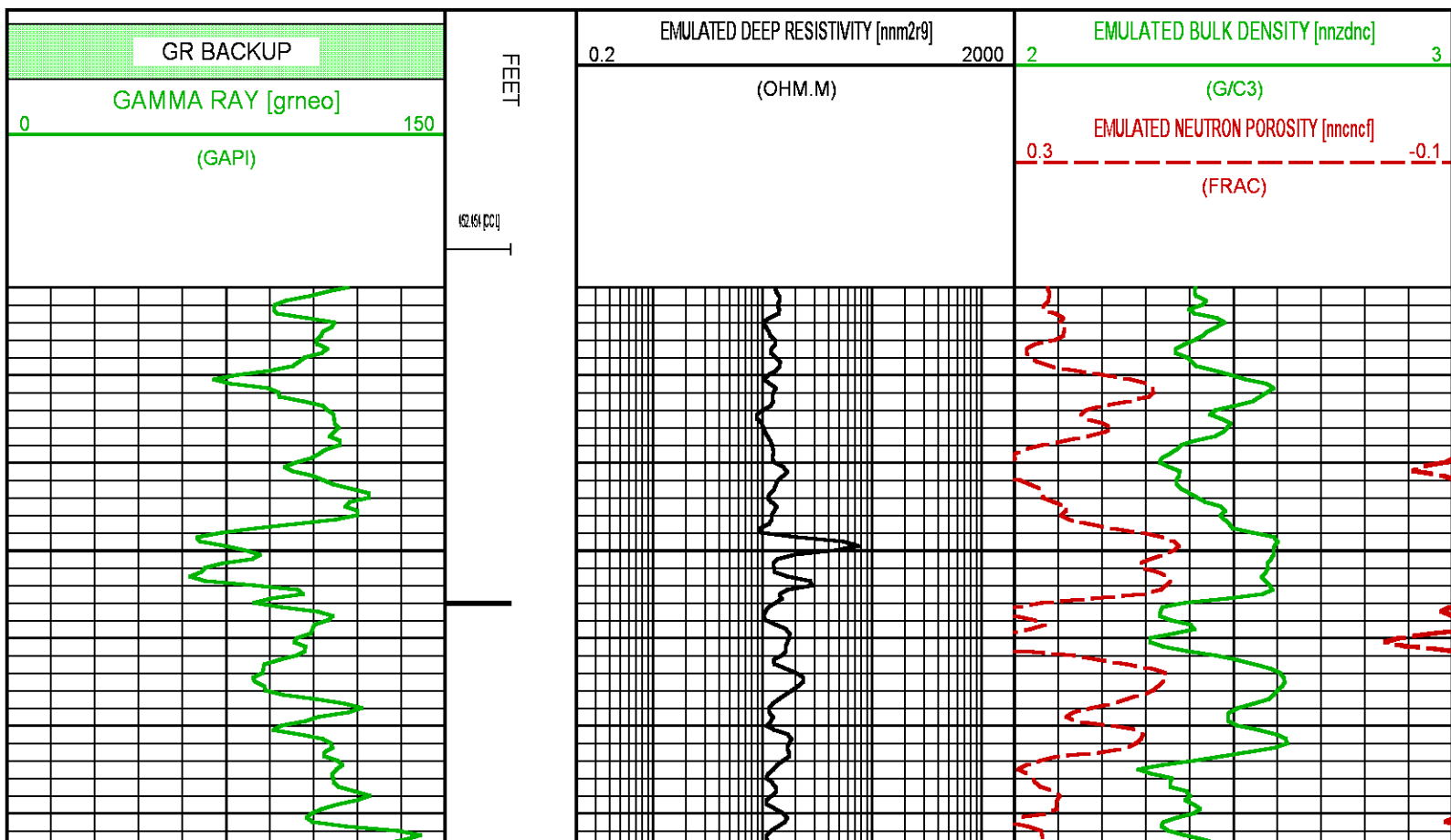
ECLIPS EC PLOT 6.2 ECLIPS Plotting &amp; Post-Processing Mon 11/17/2014 14:36:44.29

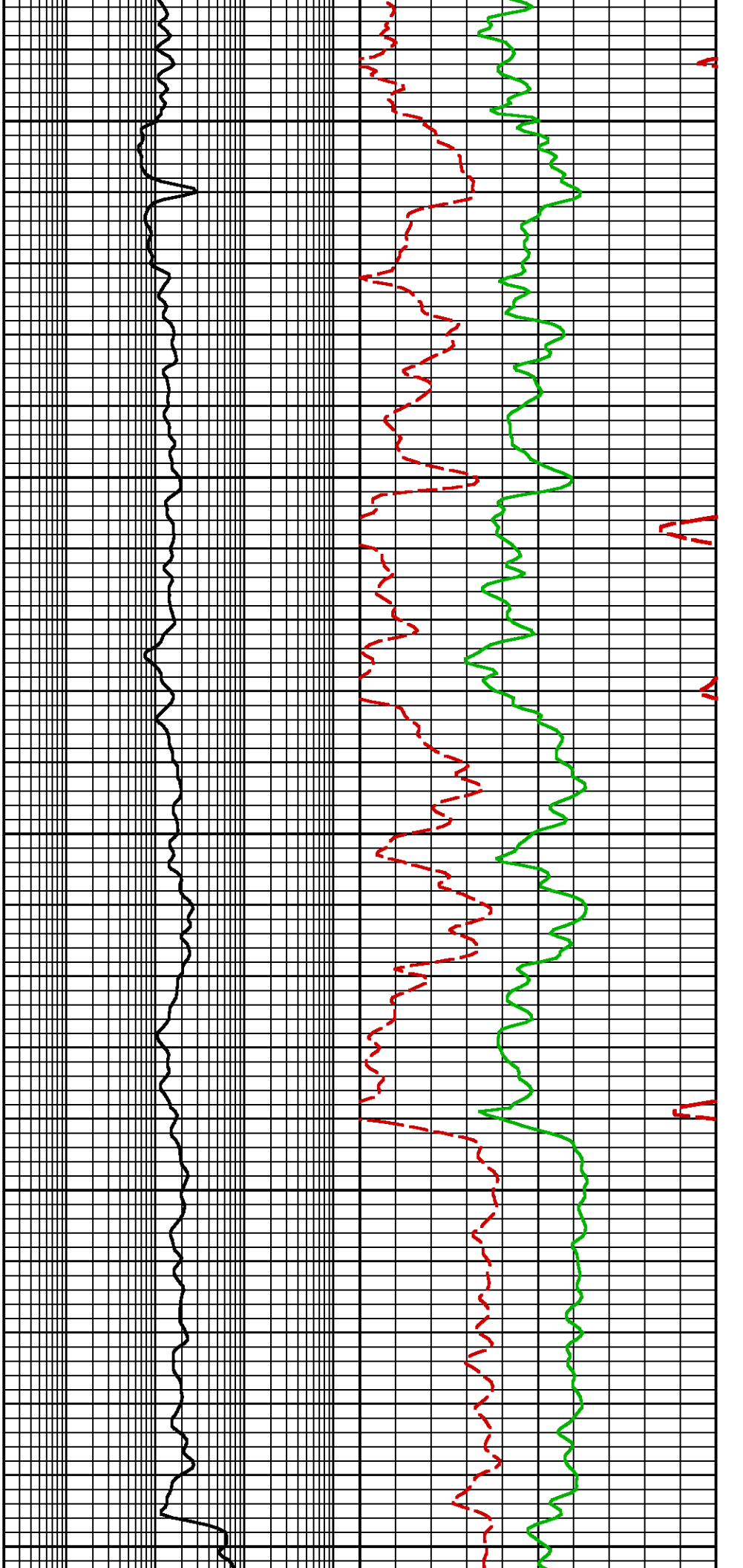
Plotted: Wed Oct 21 15:35:21 2015

## CURVE MEASURE POINT OFFSET

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

**Project** : NA  
**User** : kamgseb  
**Presentation** : BHIBZG9YY1:E:\Projects\Processing\NEO\LaramiePiceance2807M\  
                   1NEO\_PRESENTATION+PICEANCE 28-07M\_Merged\_Set\_Final.fvpdf [5"/100' Scale]  
**Plot Interval** : 2620 - 3114 Feet  
  
**Data File 1** : F1 : BHIBZG9YY1:E:\Projects\Processing\NEO\LaramiePiceance2807M\  
                   PICEANCE 28-07M\_Merged\_Set\_Final.xtf  
**Created On** : Oct 21 15:15:32 2015  
**Company** : LARAMIE ENERGY  
**Well** : PICEANCE 28-07M  
**Field** : VEGA  
**File Interval** : 2620 - 7952 Feet  
**OCT** : NA

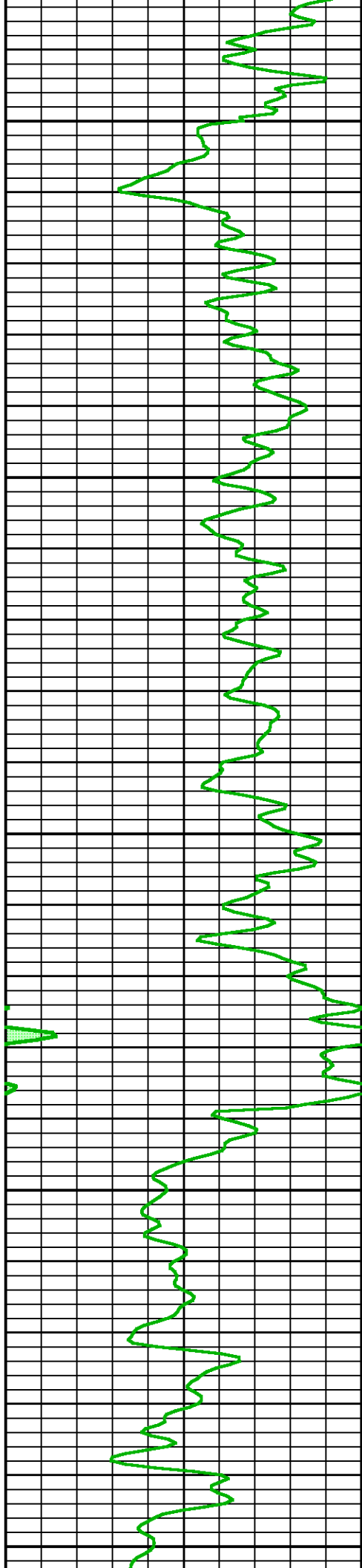


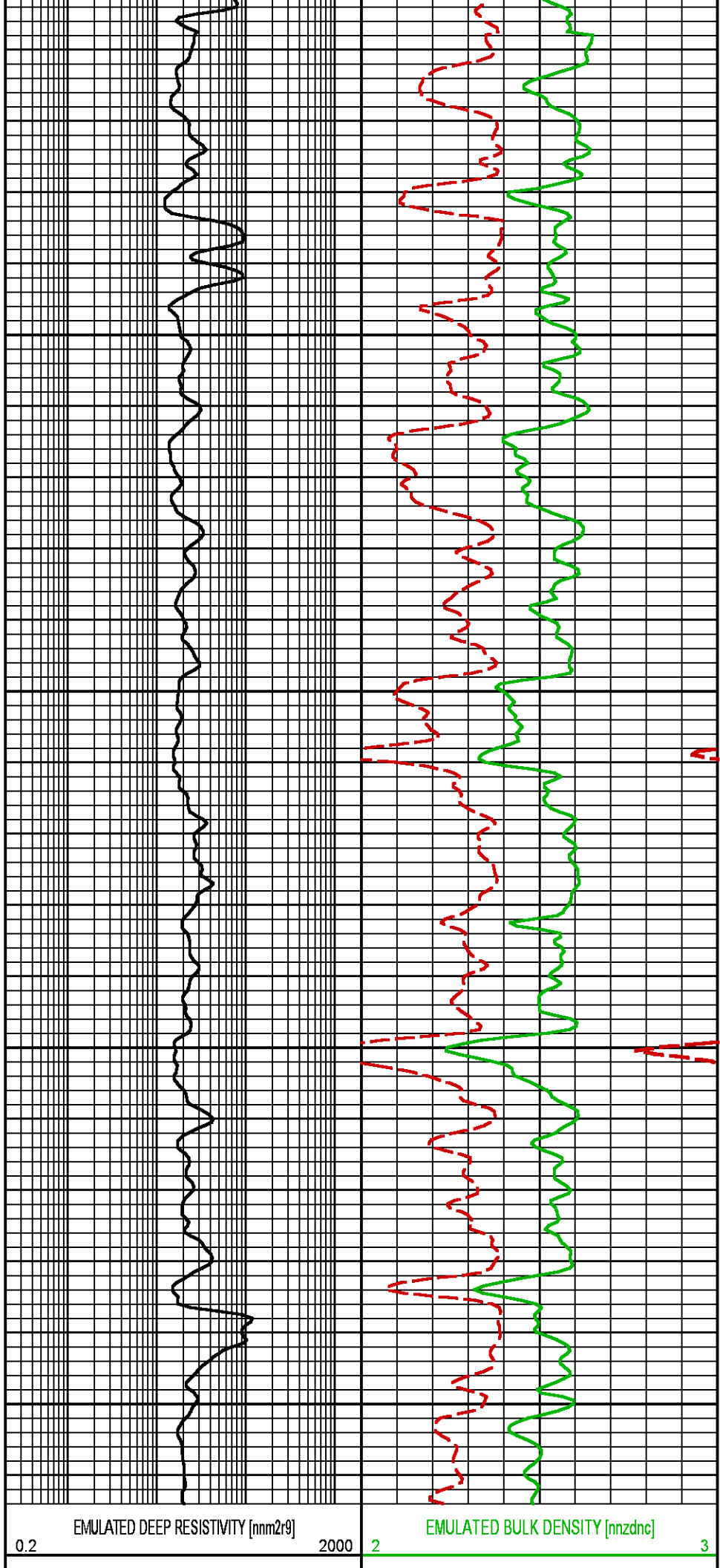
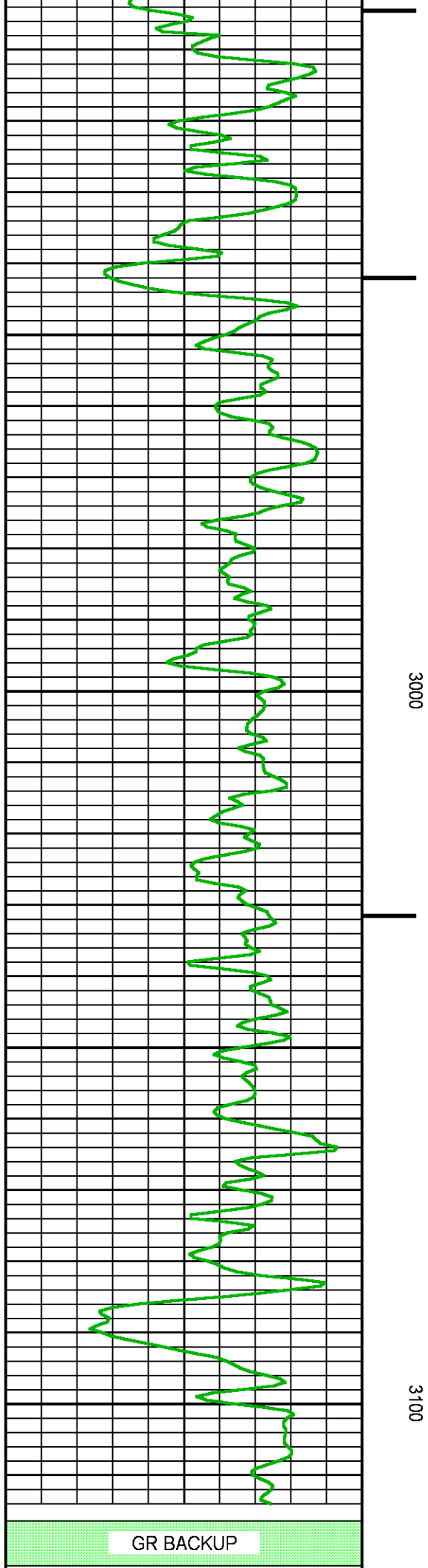


2700

2800

2900







## NEO RESULTS FOR LARAMIE PICEANCE 28-07M (MAIN)

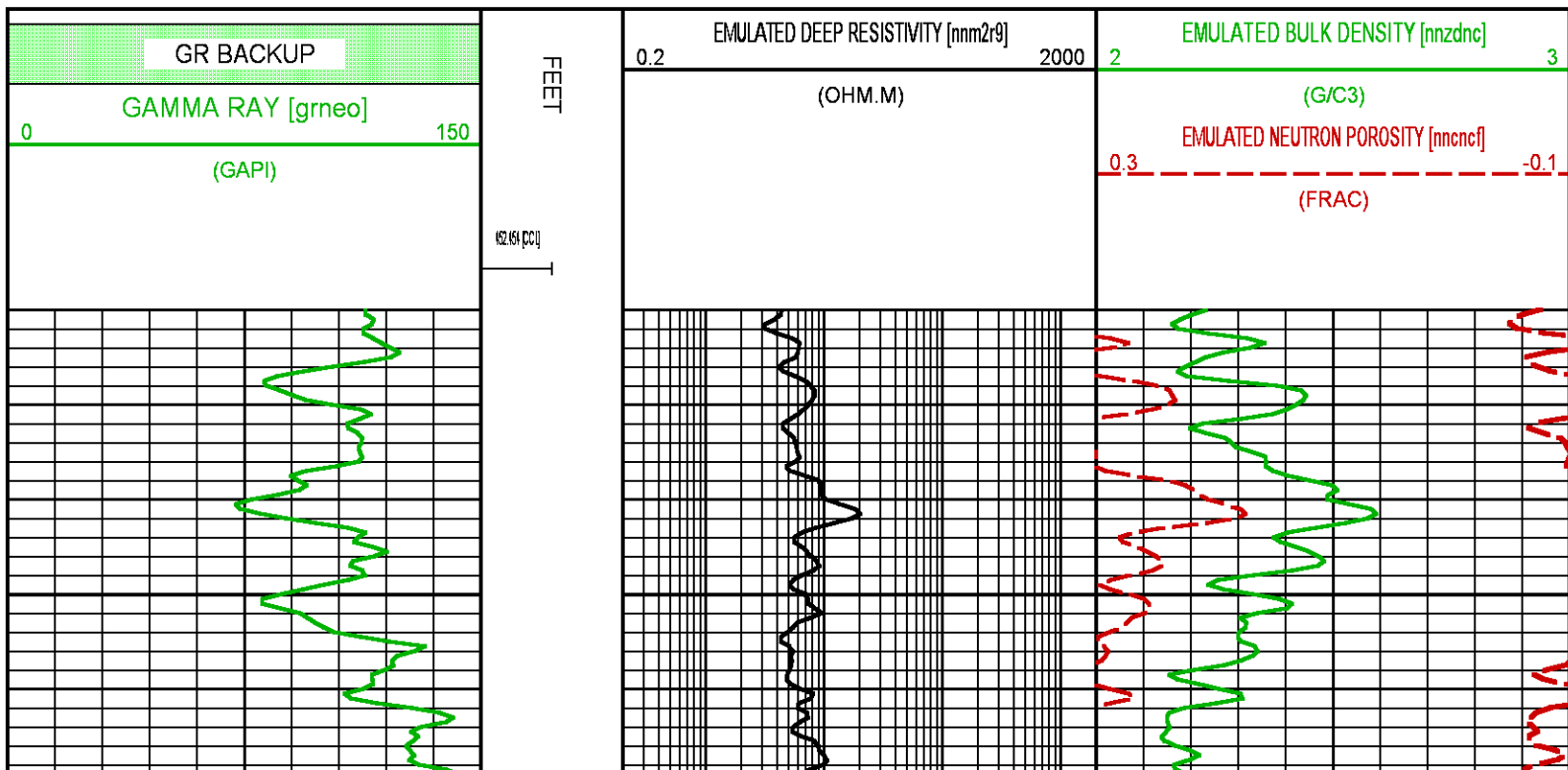
ECLIPS EC PLOT 6.2 ECLIPS Plotting & Post-Processing Mon 11/17/2014 14:36:44.29

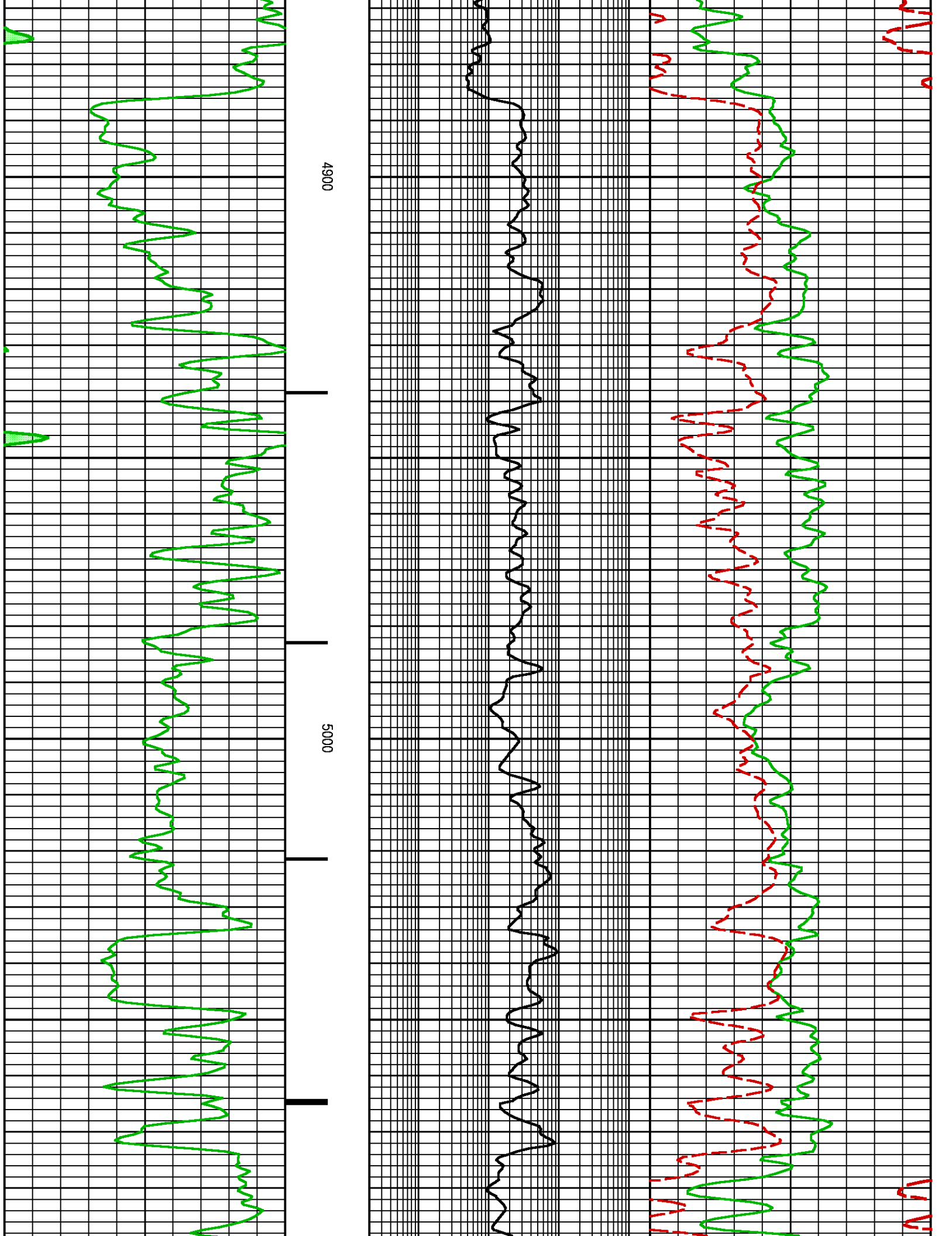
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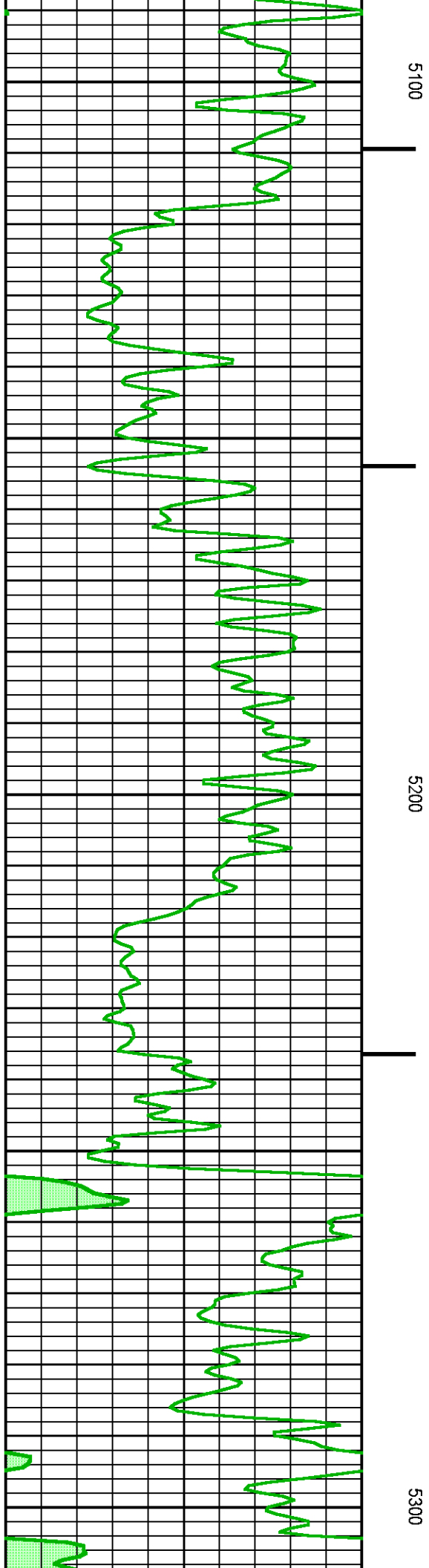
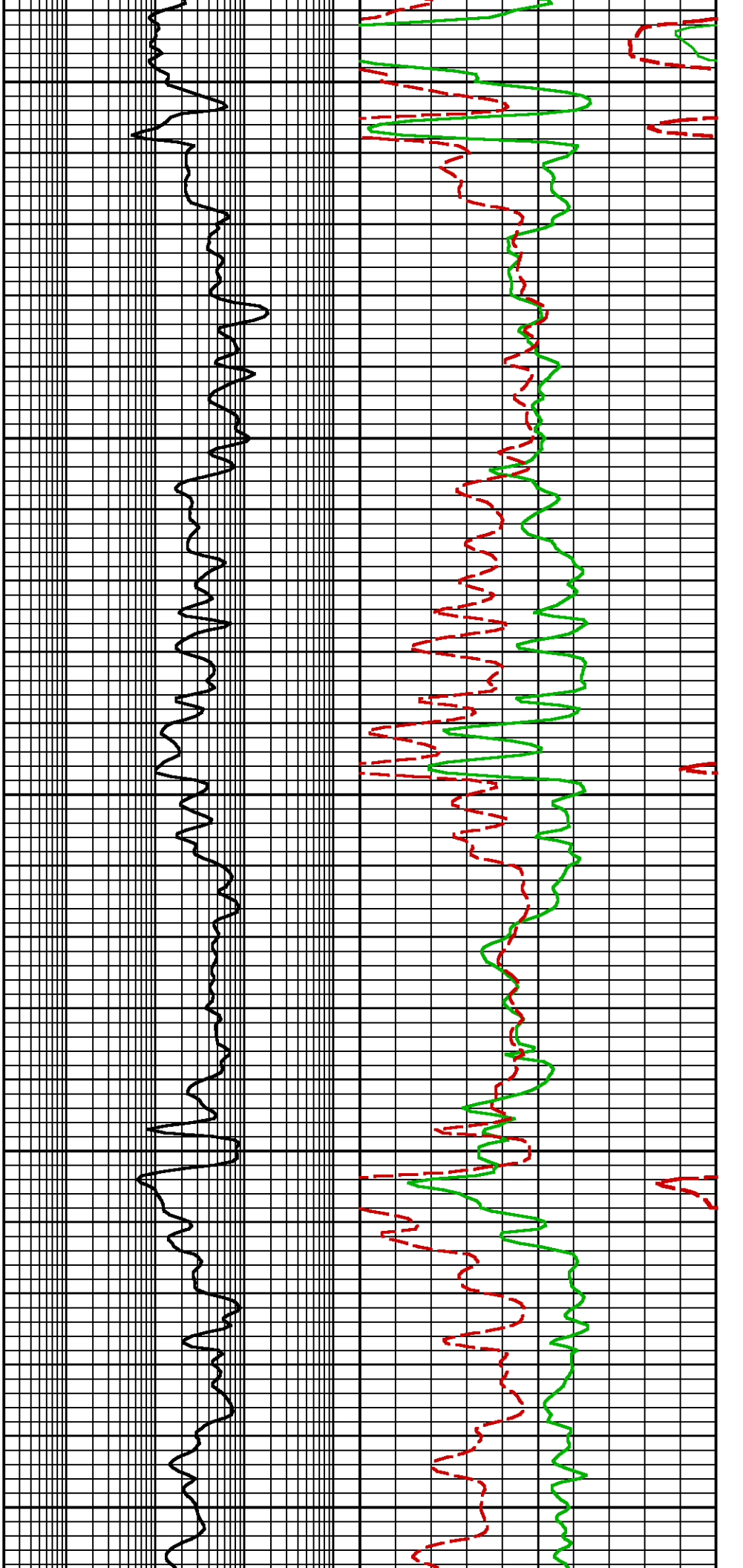
### CURVE MEASURE POINT OFFSET

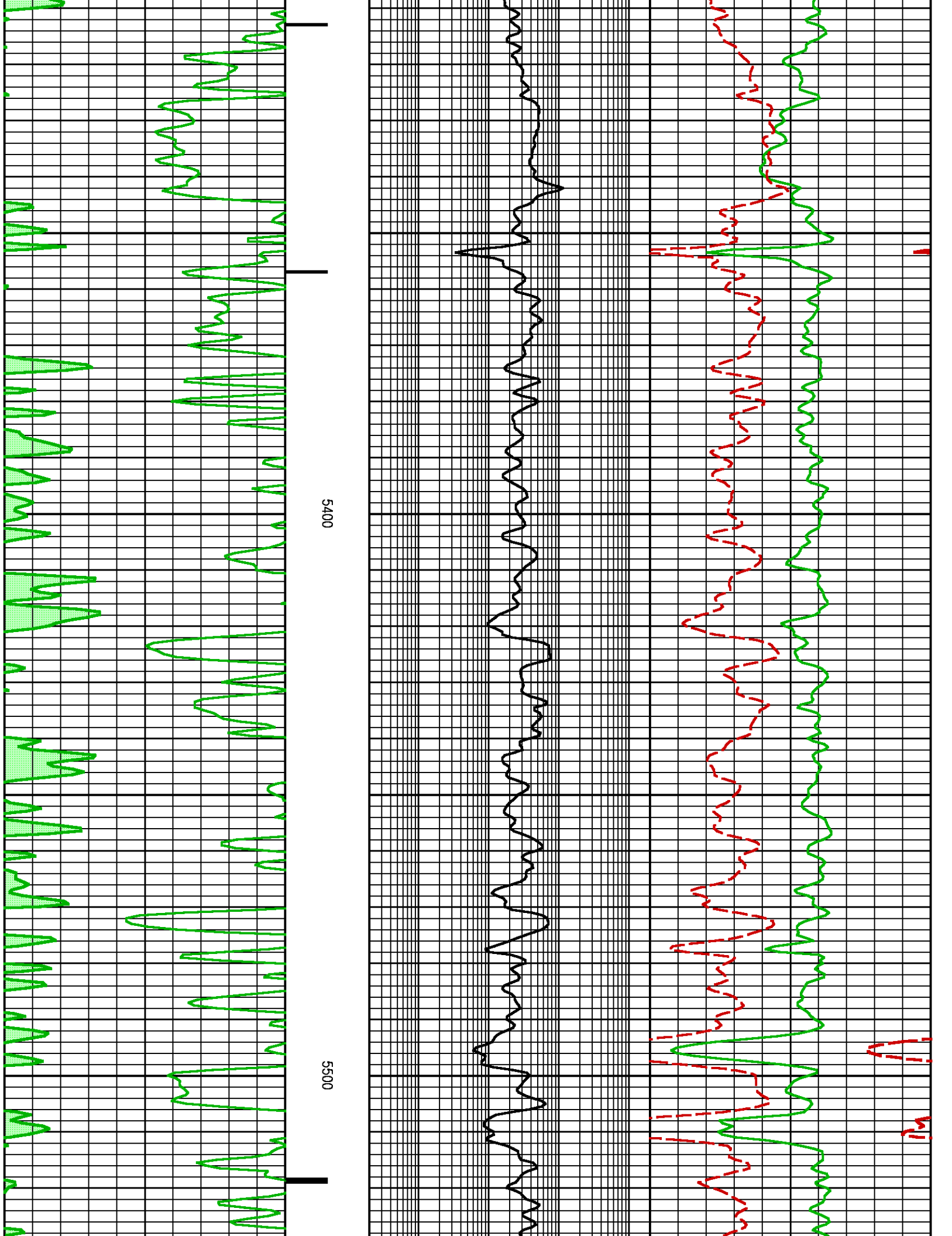
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNC	0.00	NNZDNC	0.00		
GRNEO	0.00	NNM2R9	0.00				

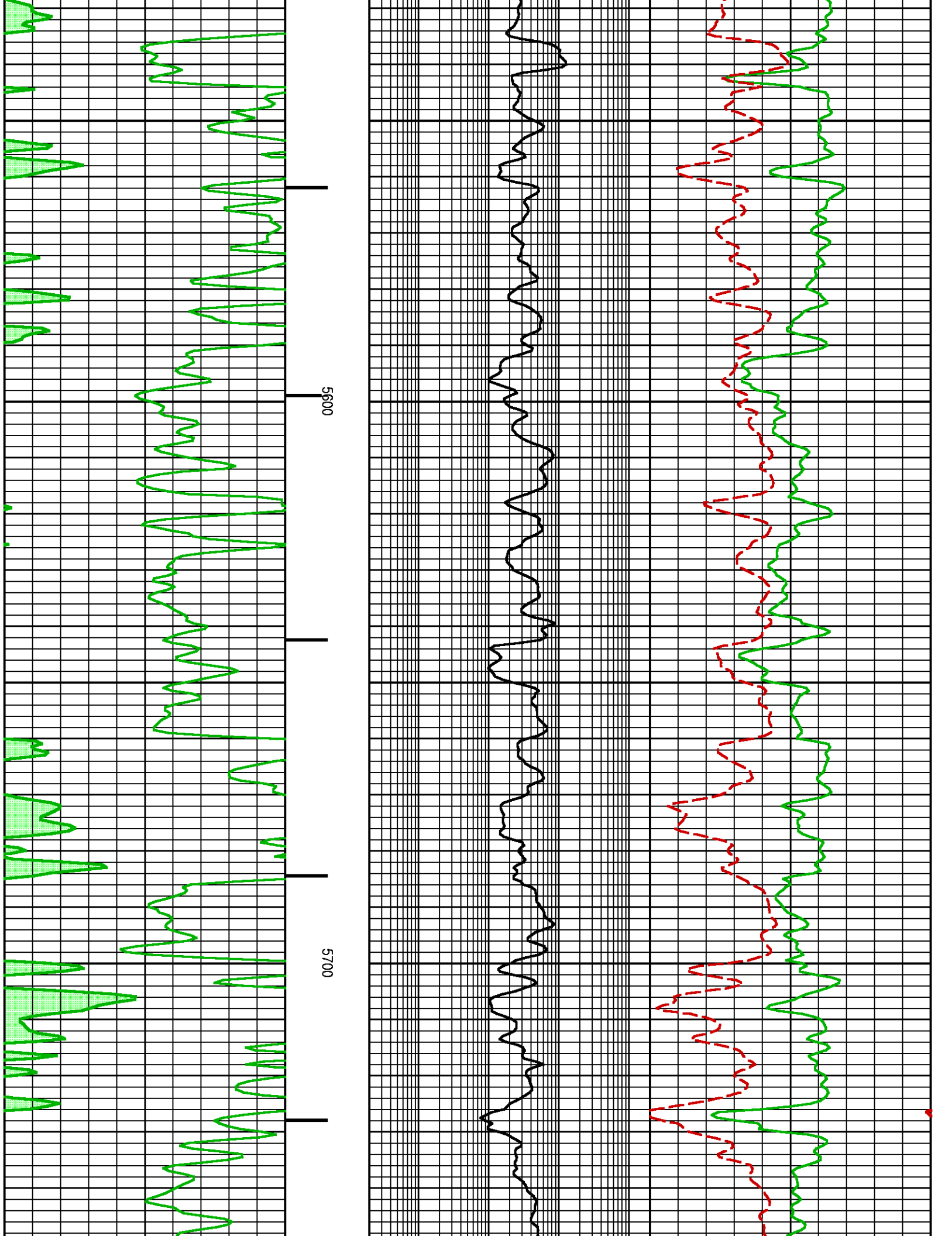
**Project** : NA  
**User** : kamgseb  
**Presentation** : BHIBZG9YY1:E:\Projects\Processing\NEO\LaramiePiceance2807M\2NEO\_PRESENTATION+PICEANCE 28-07M\_Merged\_Set\_Final.fvpdf [5"/100' Scale]  
**Plot Interval** : 4820 - 7945 Feet  
  
**Data File 1** : F1 : BHIBZG9YY1:E:\Projects\Processing\NEO\LaramiePiceance2807M\PICEANCE 28-07M\_Merged\_Set\_Final.xtf  
**Created On** : Oct 21 15:15:32 2015  
**Company** : LARAMIE ENERGY  
**Well** : PICEANCE 28-07M  
**Field** : VEGA  
**File Interval** : 2620 - 7952 Feet  
**OCT** : NA

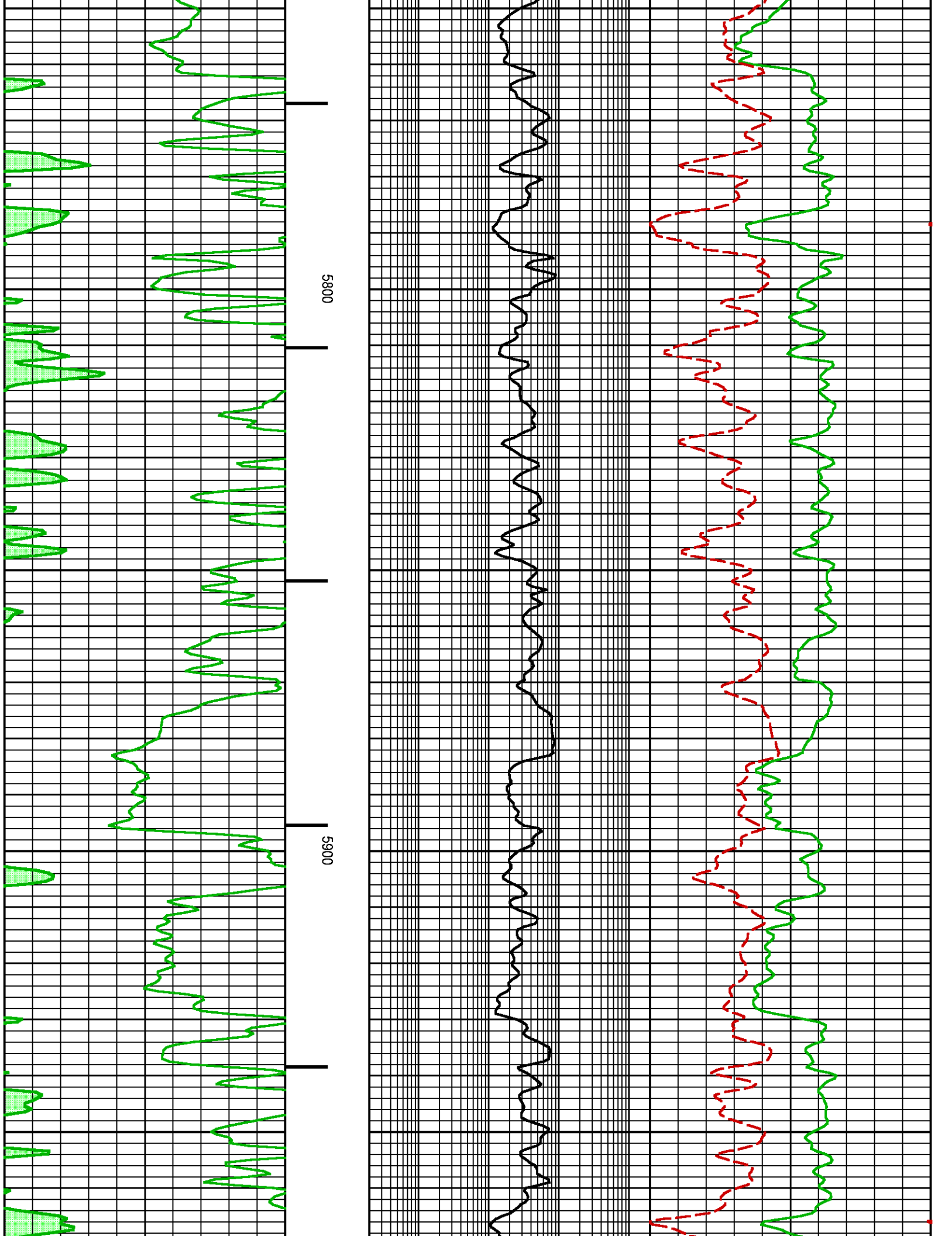


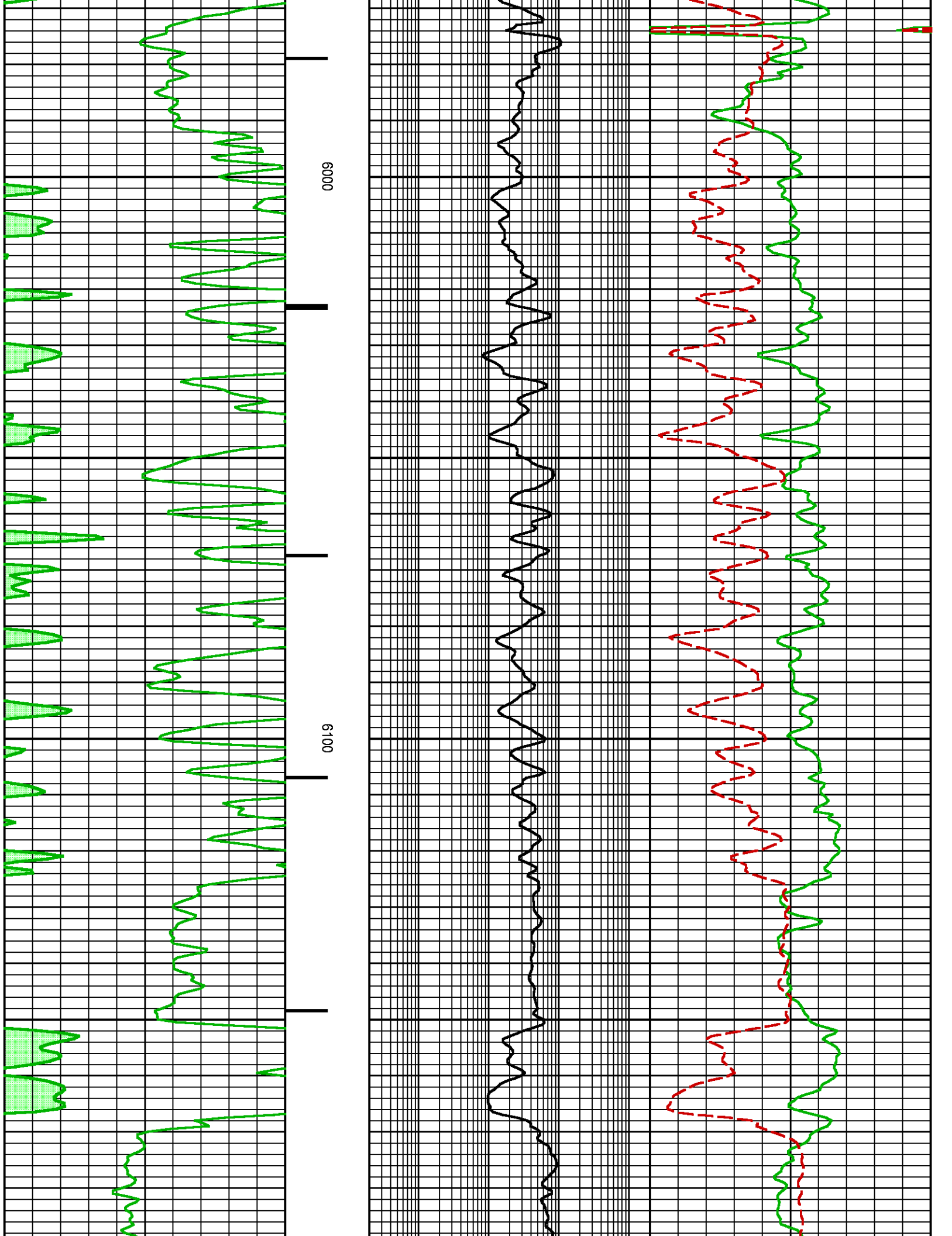


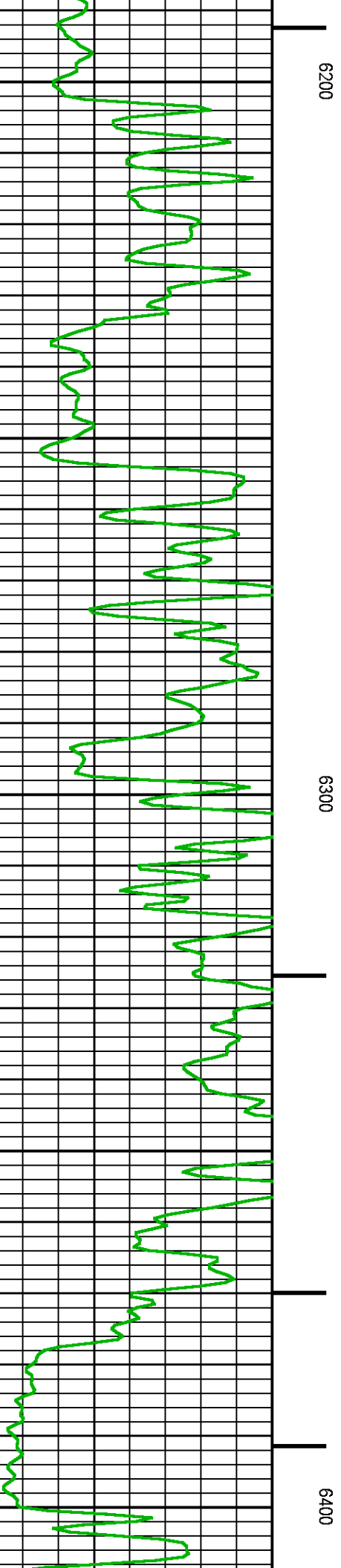
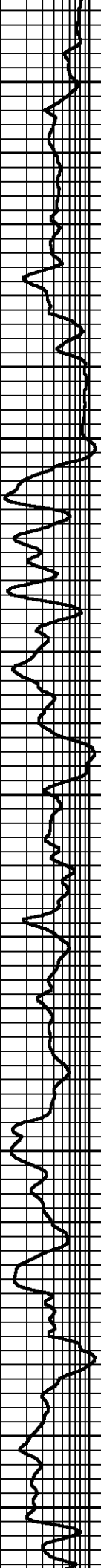
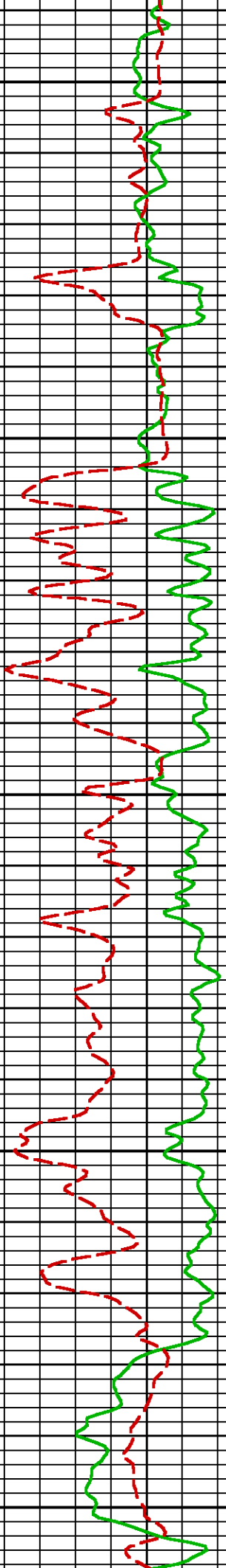


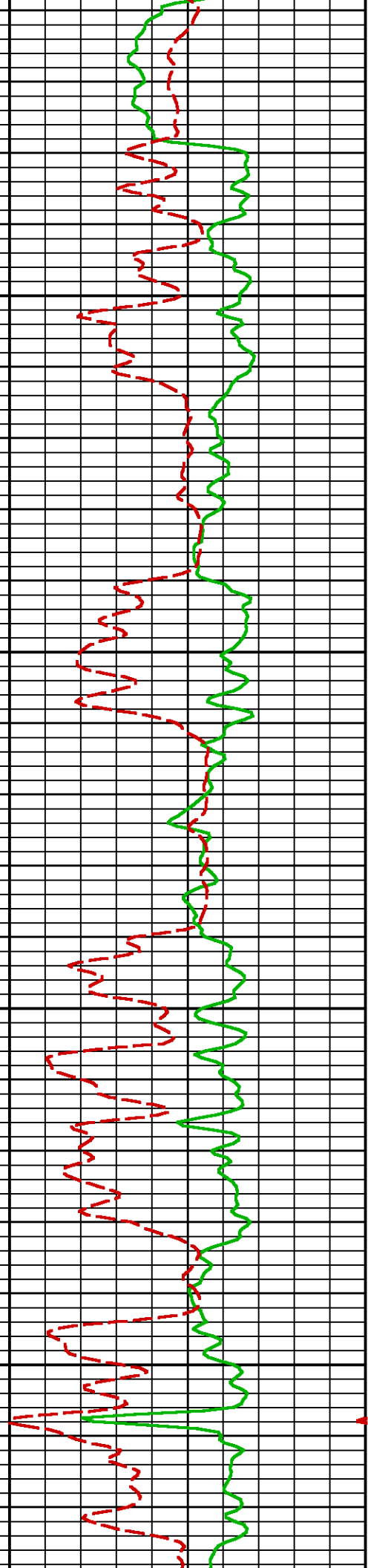
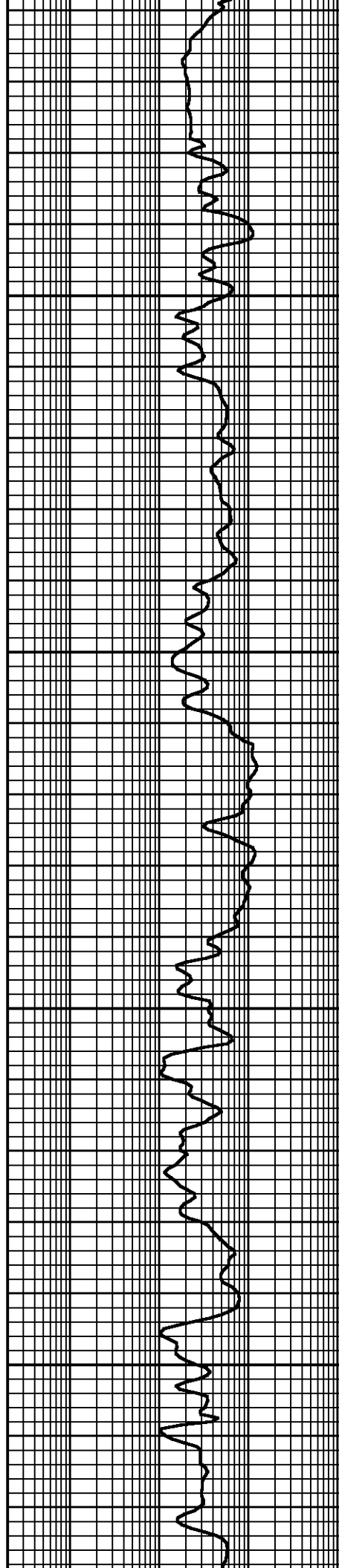
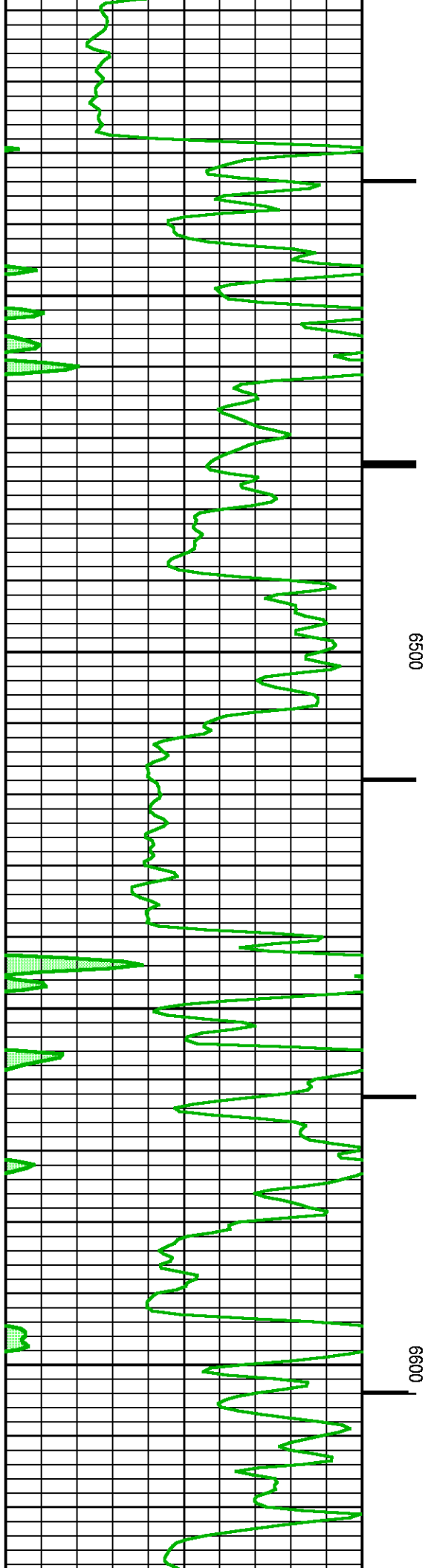


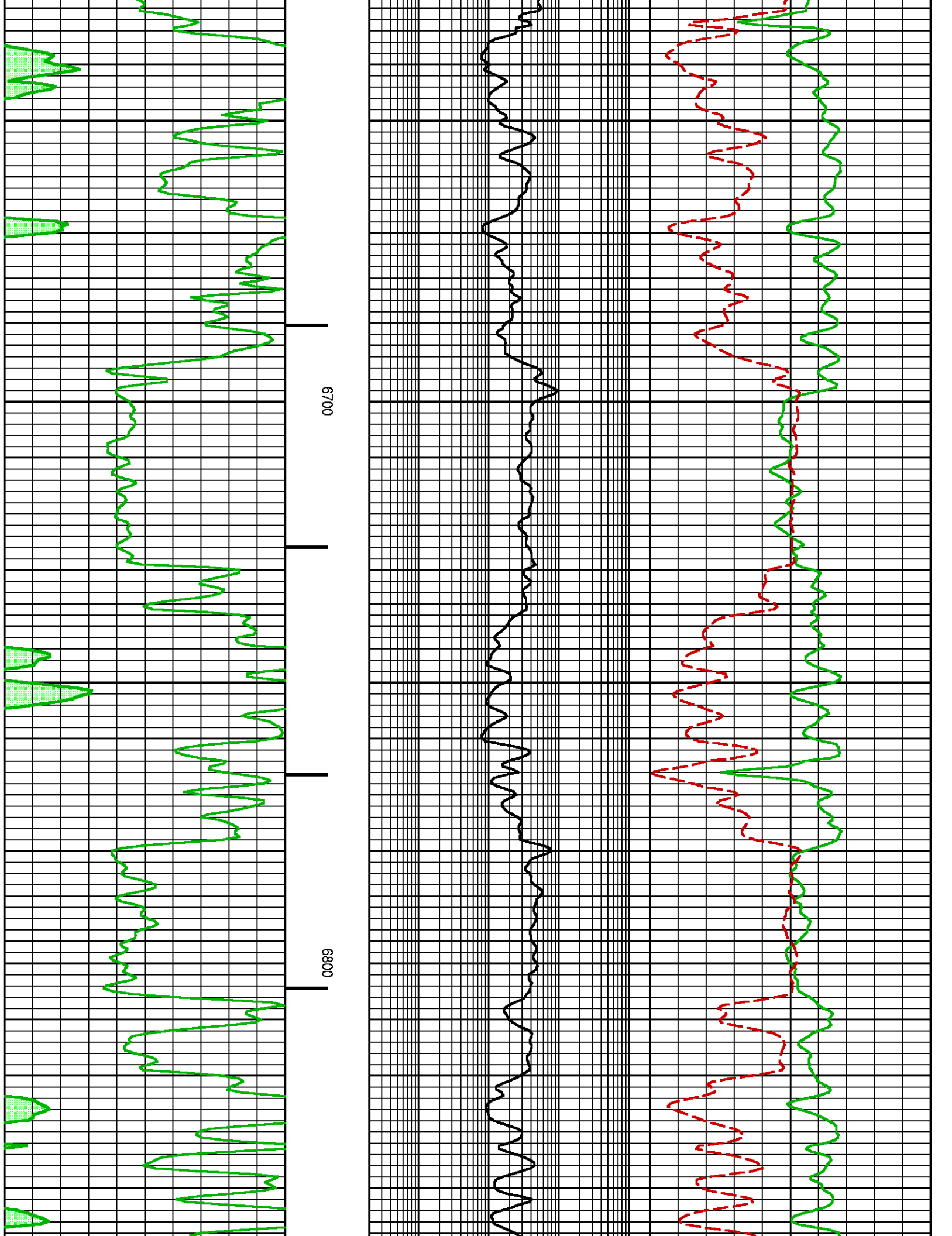


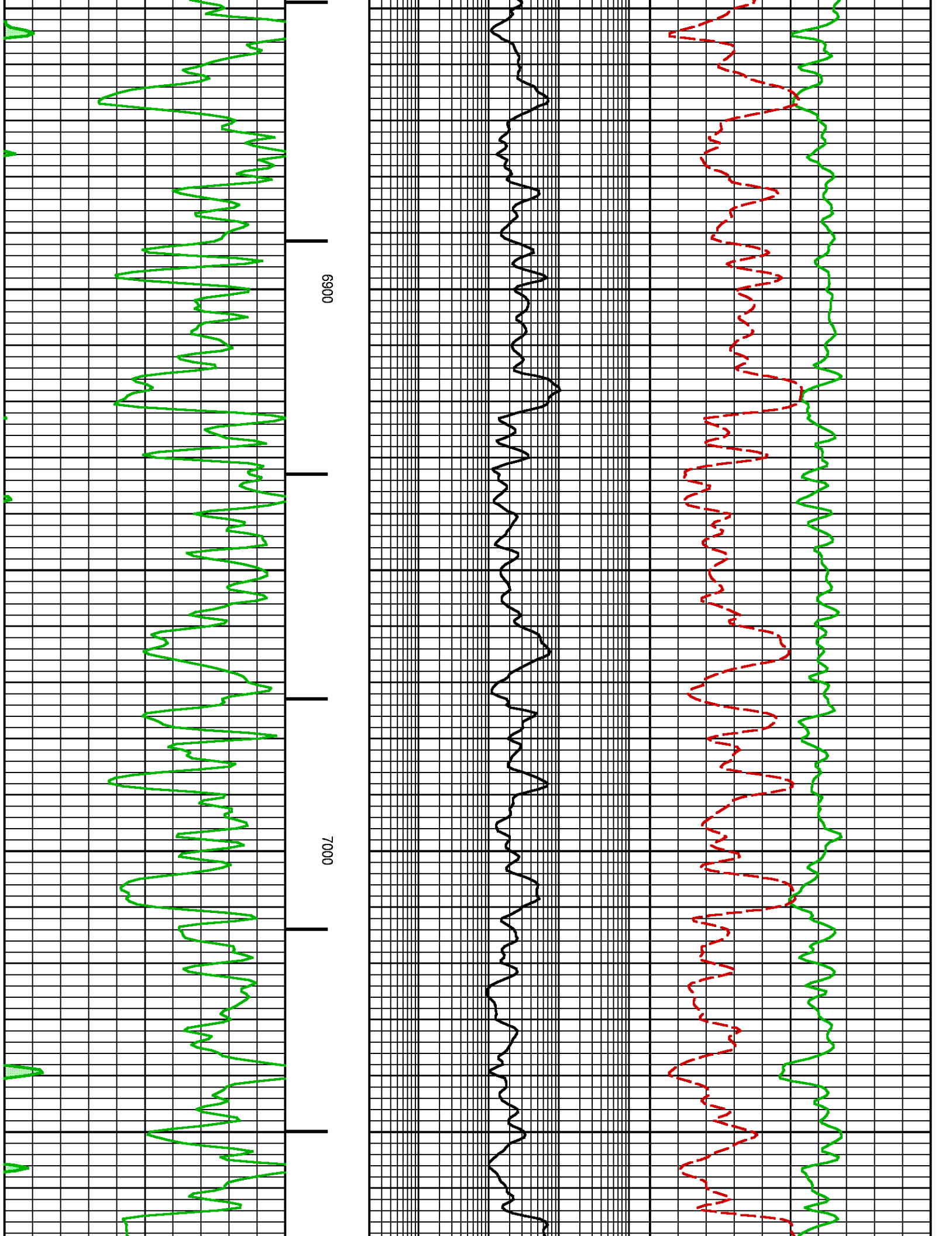


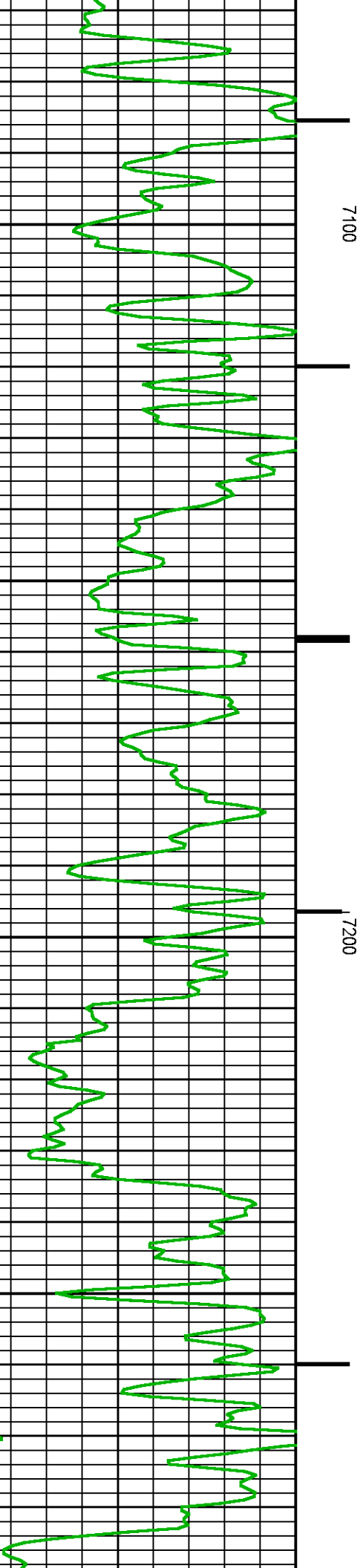
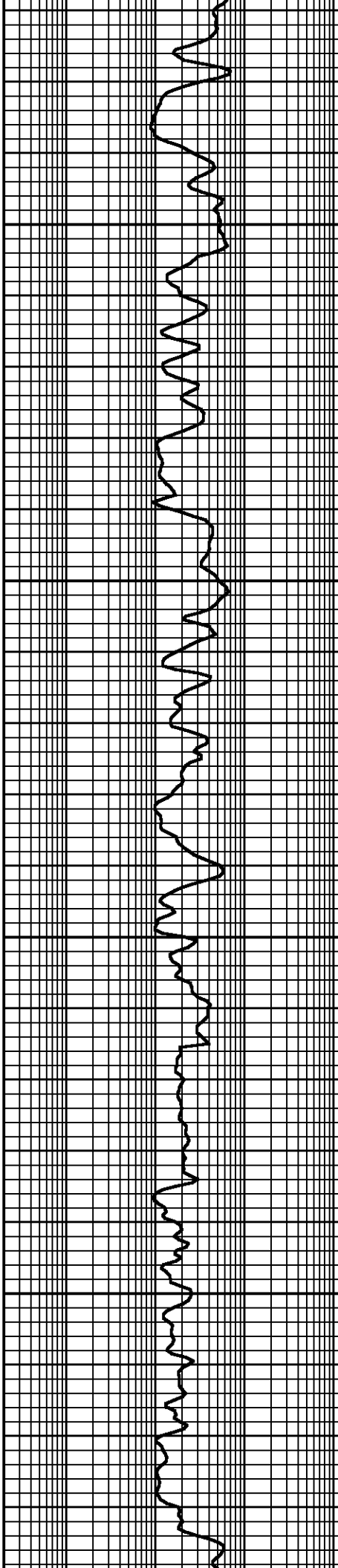
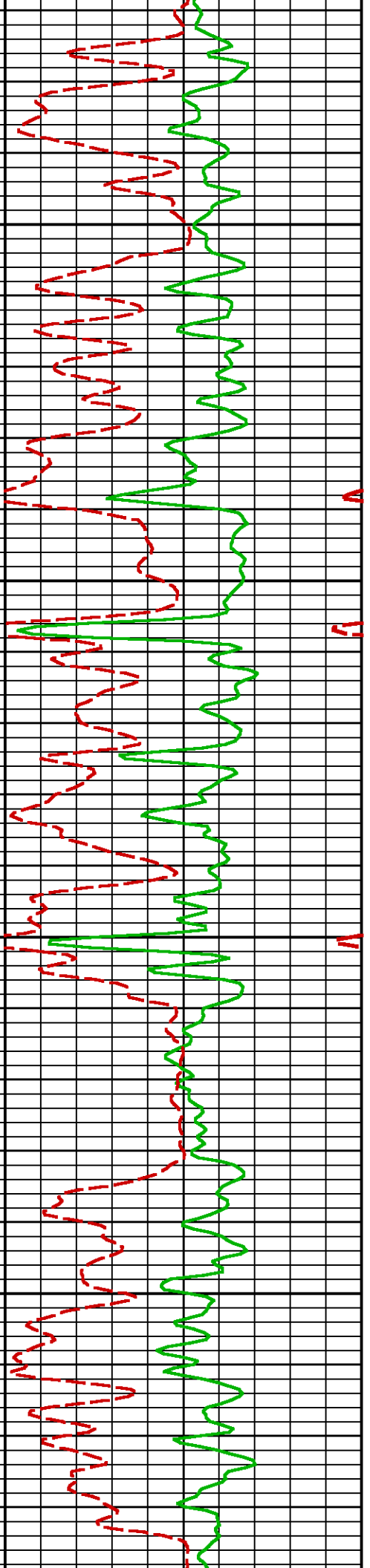


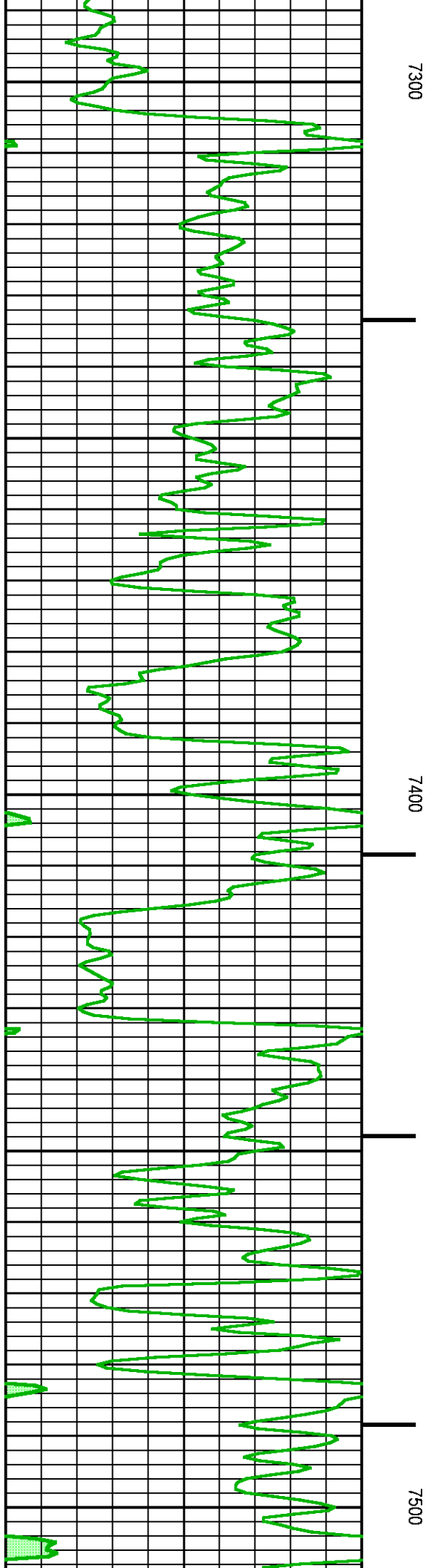
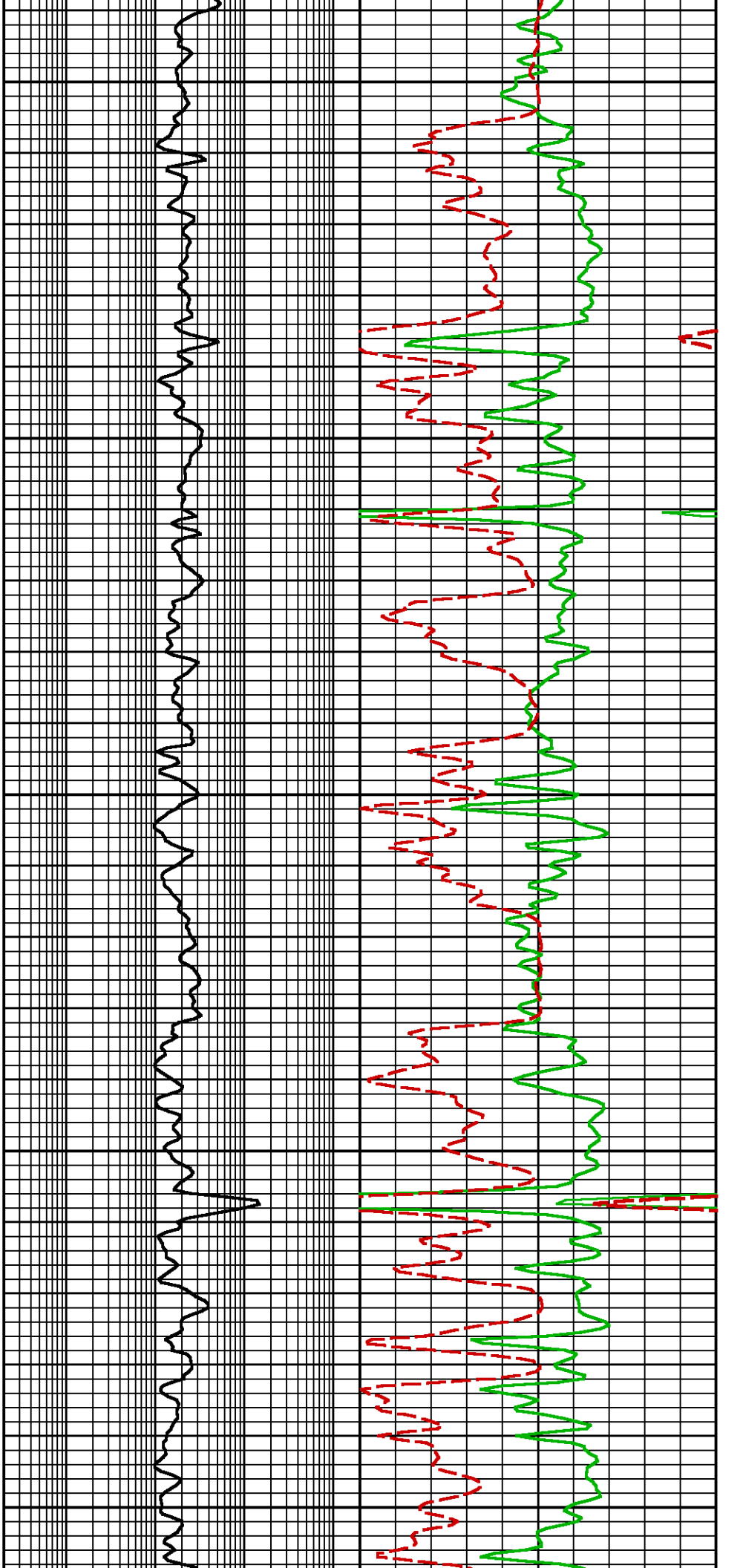


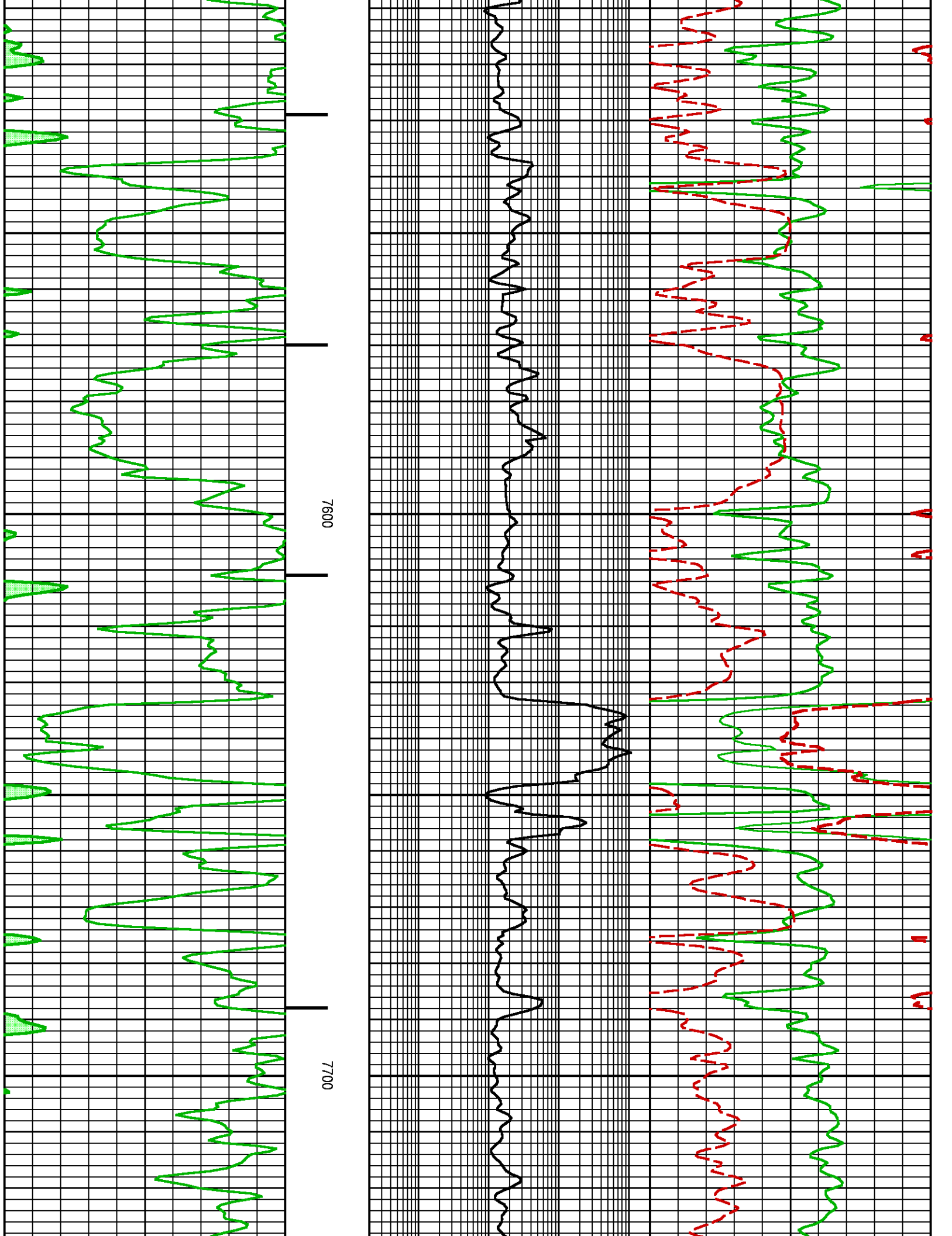


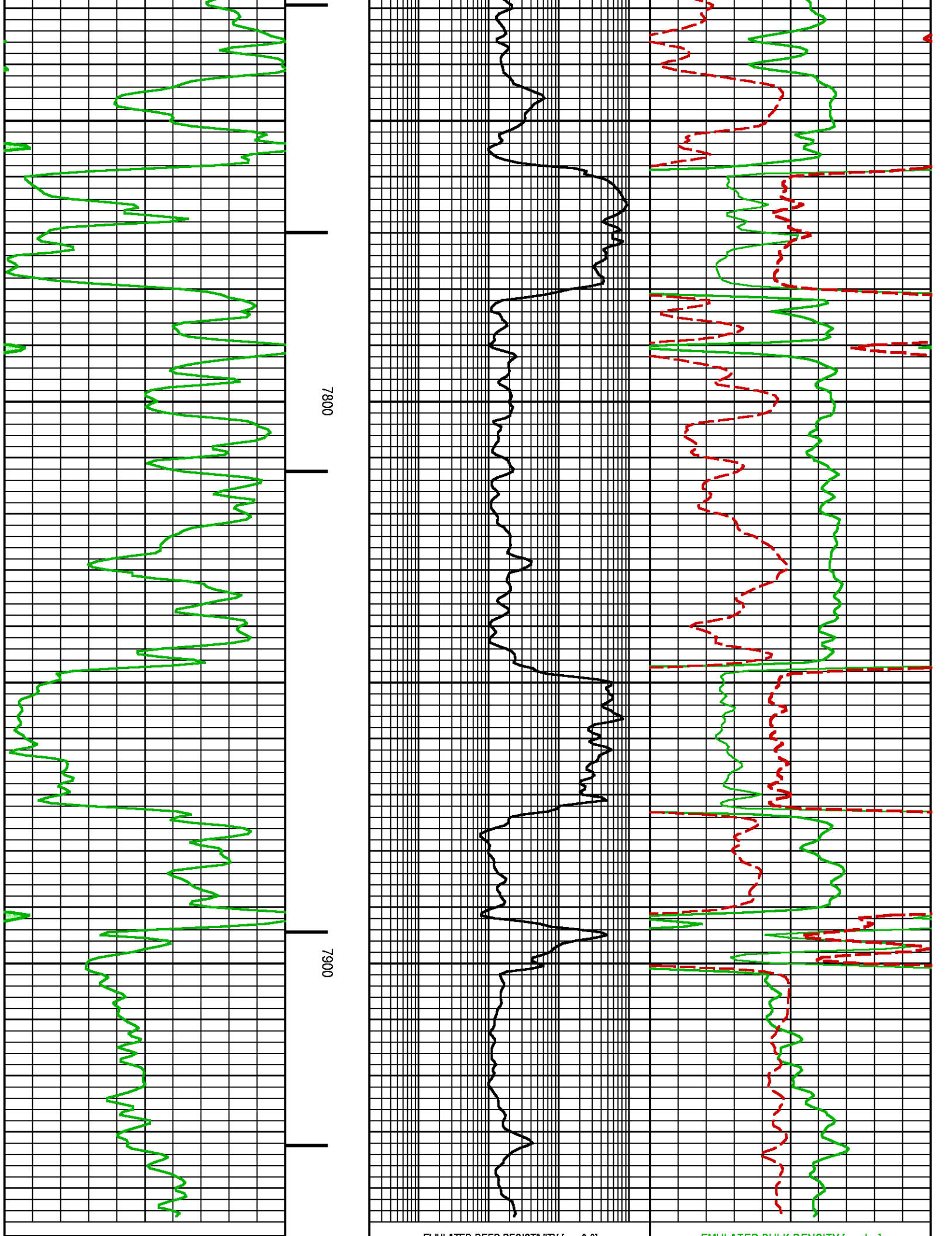





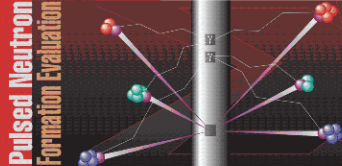








GR BACKUP		FEET 152.151 (ft)	0.2	EMULATED DEEP RESISTIVITY [nm2r9]	2000	2	EMULATED BULK DENSITY [nnzdnf]	3
0	GAMMA RAY [grneo]		(OHM.M)		(G/C3)		EMULATED NEUTRON POROSITY [nnncnf]	
	(GAPI)				0.3		-0.1	(FRAC)

 <b>BAKER HUGHES</b> 	COMPANY	<u>LARAMIE ENERGY</u>		FILE NO:	<u>21004-01</u>
	WELL	<u>PICEANCE 28-07M</u>		API NO:	<u>05077102400000</u>
	FIELD	<u>VEGA</u>			
	COUNTY	<u>MESA</u>	STATE	<u>COLORADO</u>	
	LOCATION:	<u>SEE REMARKS SECTION</u>		ELEVATIONS:	
				KB <u>7600 FT</u>	
				DF	
				GL <u>7578 FT</u>	
	SEC <u>28</u> TWP <u>9S</u> RGE <u>93W</u>			DATE	<u>21-OCT-2015</u>