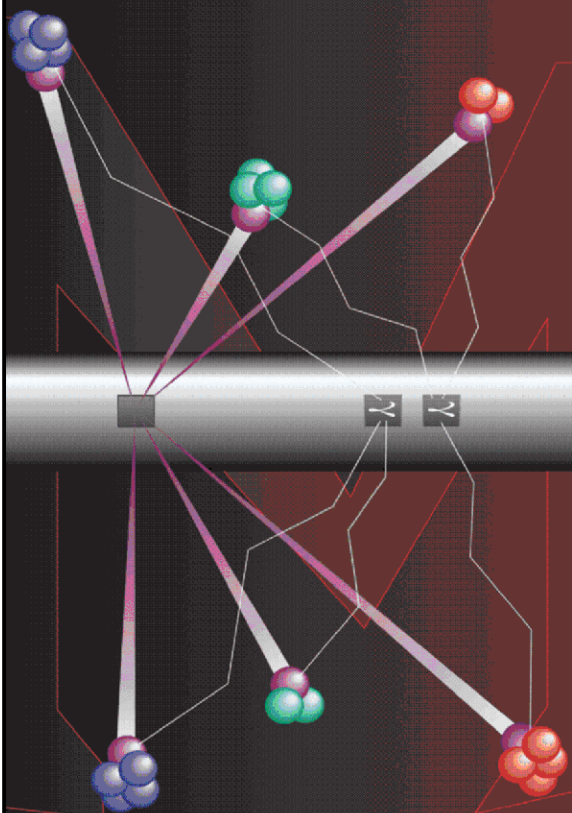




# Pulsed Neutron Formation Evaluation



## NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY

WELL PICEANCE FEDERAL 28-20E

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS SECTION

SEC 28 TWP 9S RGE 93W

ELEVATIONS:

KB 7701 FT DF GL 7679 FT

DATE 05-NOV-2015 ECC 21132-01

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>05-NOV-2015</u>
FIELD DATA	LOCATION: <u>GRAND JCT</u>	ENGINEER: <u>QUIGLEY / US100607J</u>	DATE: <u>30-OCT-2015</u>
FROM	TO		
<u>3000 FT</u>	<u>8358 FT</u>		

### REMARKS

LOCATION:  
SHL: 1981' FSL 2484' FWL  
BHL: 113' FSL 881' FEL

TRAINING WELL: PICEANCE FEDERAL 28-21E

ANY ERRORS IN THE TRAINING WELL OPEN HOLE DATA DUE TO WELLBORE CONDITIONS CAN PERPETUATE THROUGH AS ERROR IN THE EMULATED RESULTS.

OPEN HOLE IS DEPTH REFERENCE LOG

EXCESSIVE GCL NOISES ACROSS CERTAIN INTERVALS ON GBL AND RPM PASSES (DIFFERENT

EXCESSIVE CCL NOISES ACROSS CERTAIN INTERVALS ON CBL AND RPM PASSES (DIFFERENT TOOLS). NATURE OF THE ADDITIONAL NOISE UNKNOWN.

ANALYST: SEB. KAMGANG

## NEO RESULTS FOR PICEANCE FEDERAL 28-20E

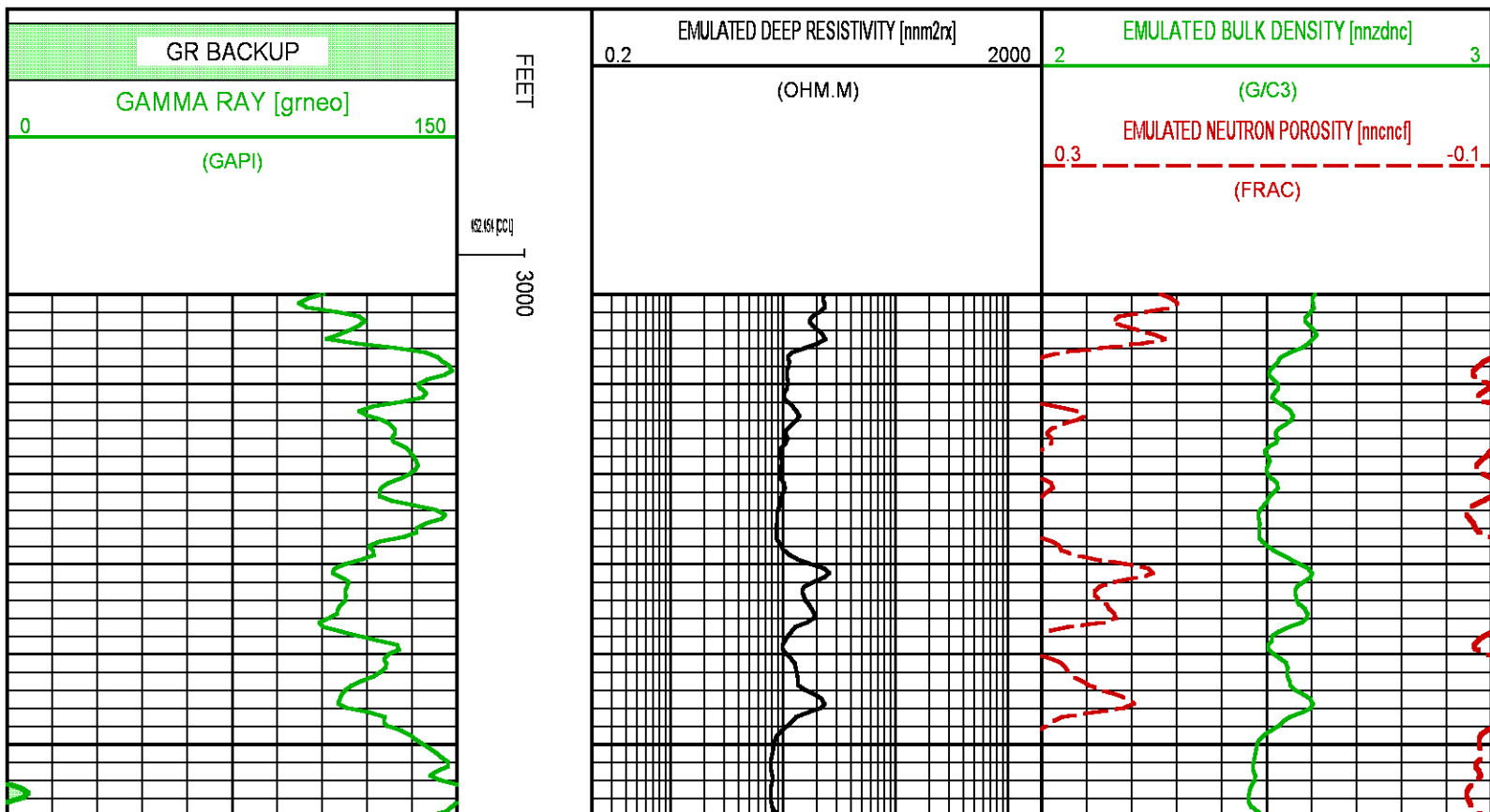
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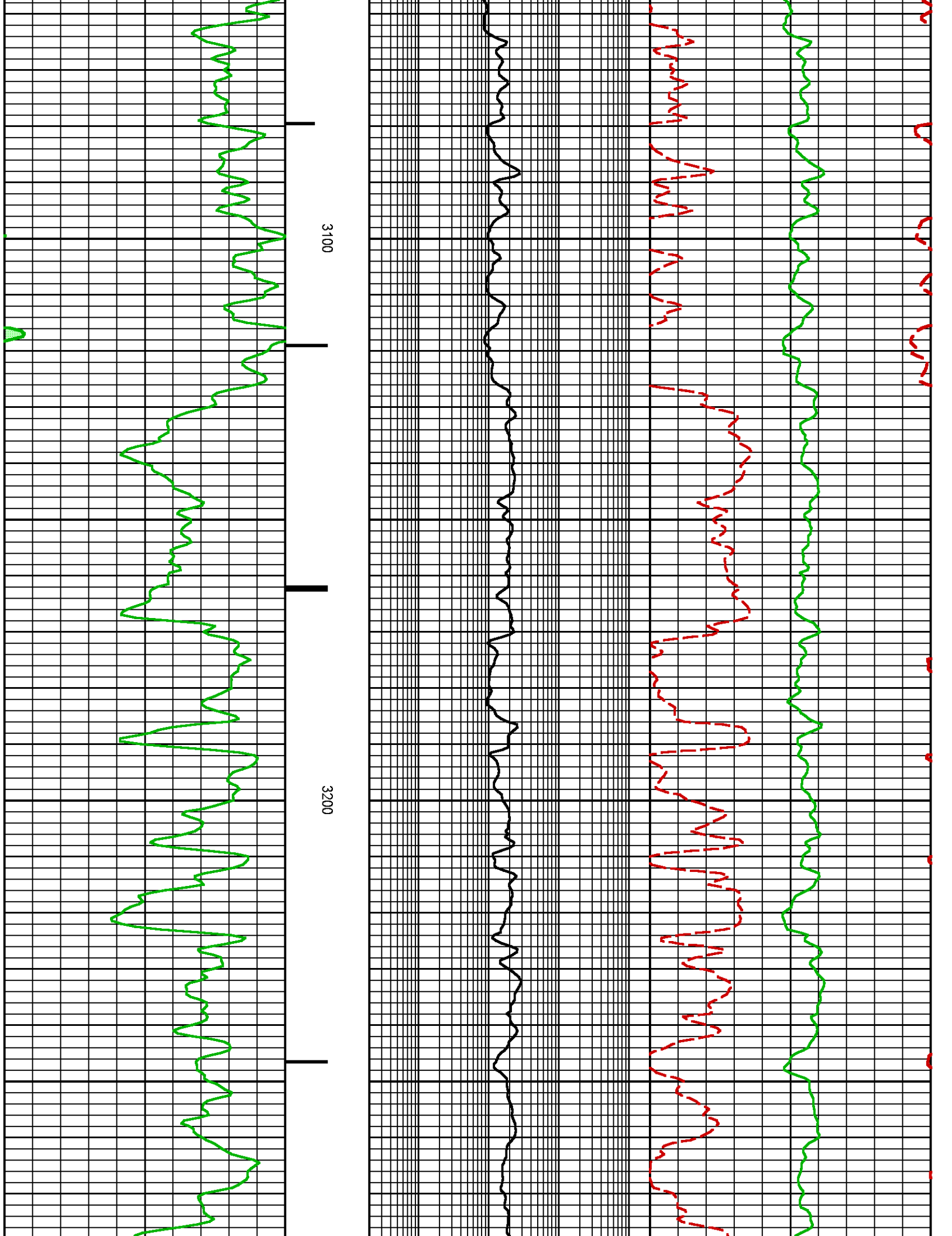
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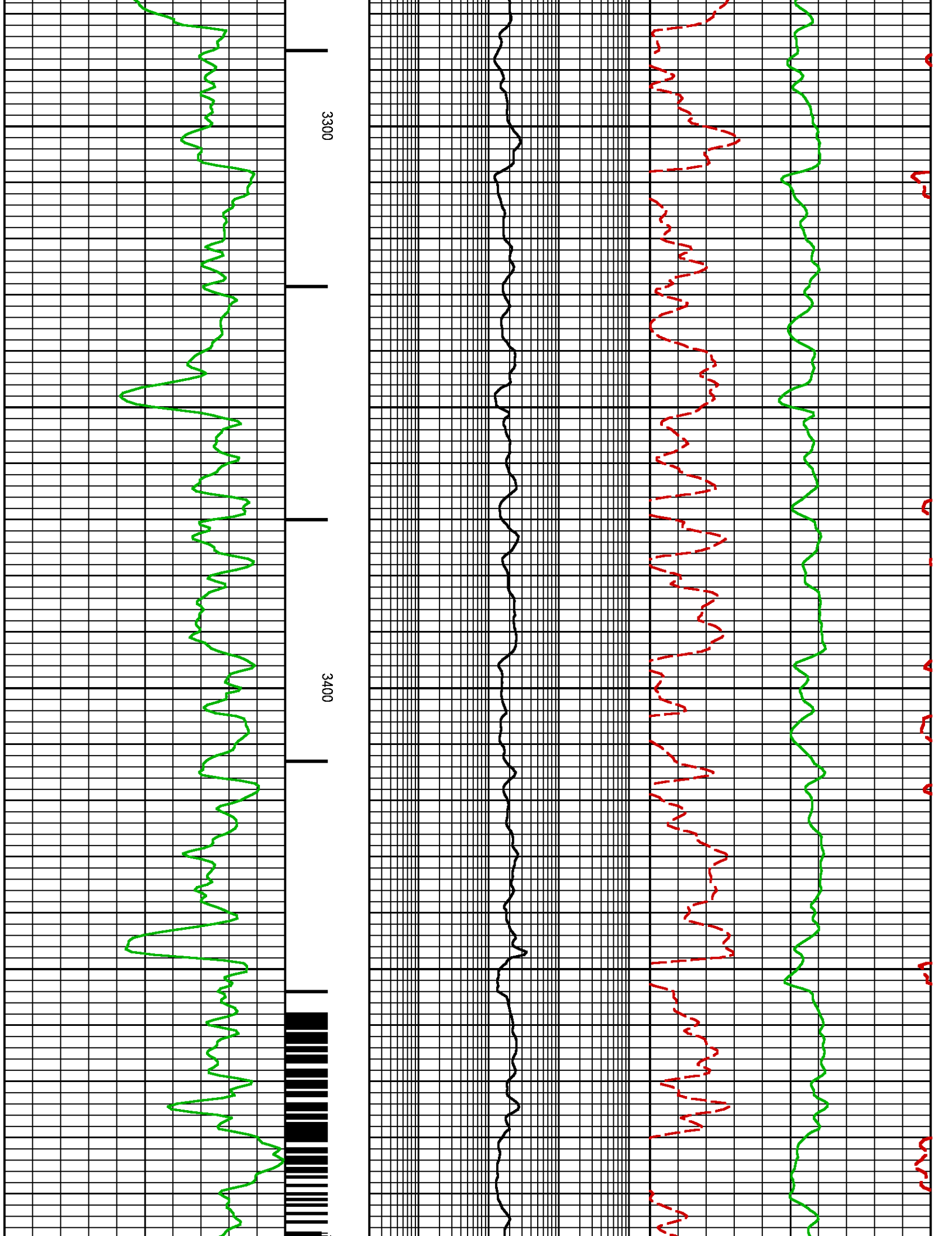
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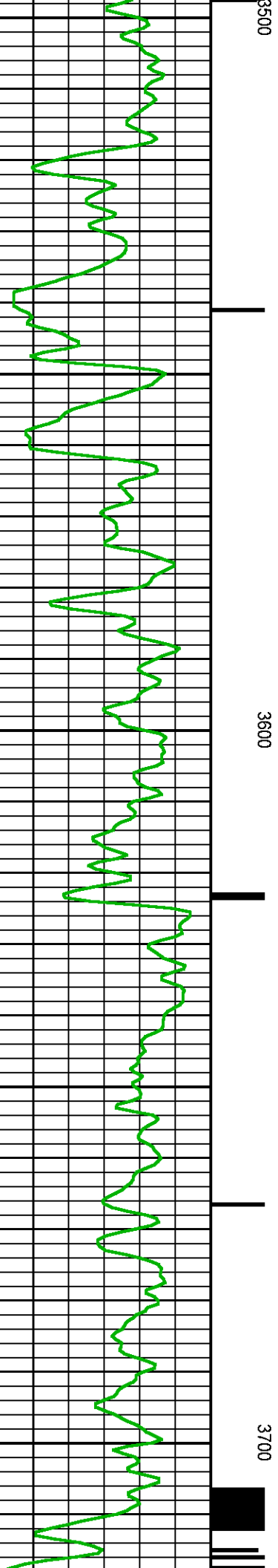
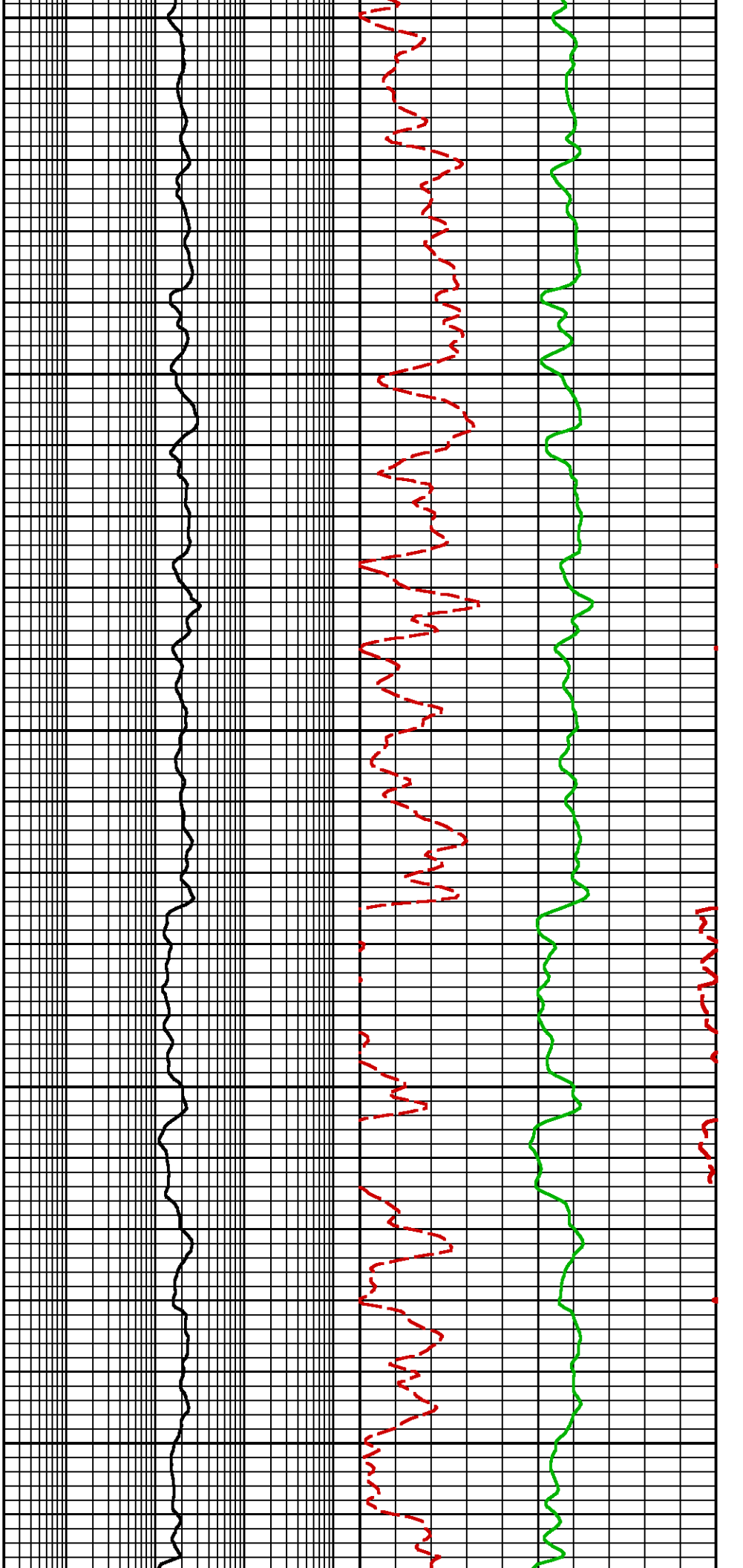
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	0.00	NNCNC	0.00	NNZDNC	0.00		
GRNEO	0.00	NNM2RX	0.00				

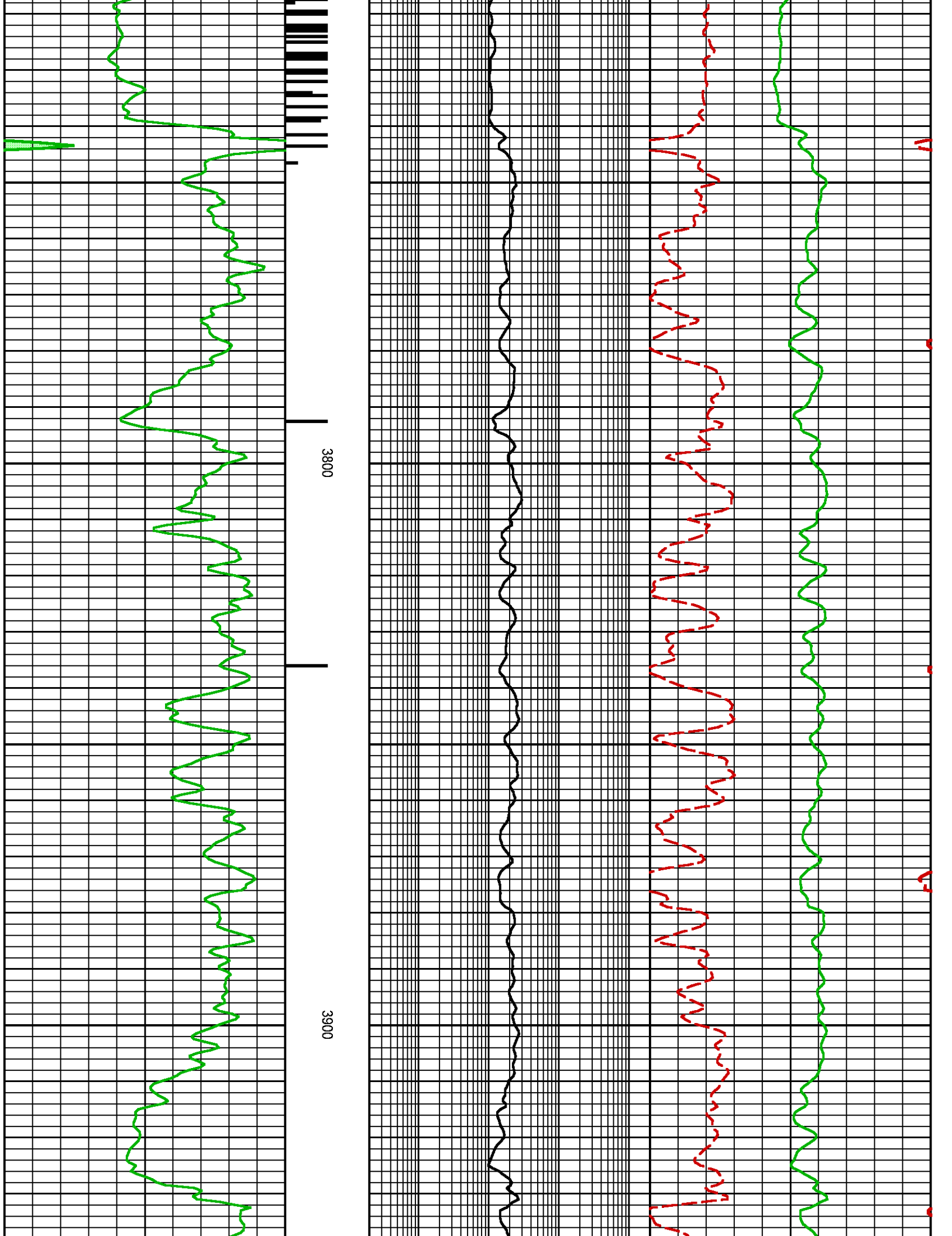
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User : kamgseb  
Presentation : BHIBZG9YY1:E:\Projects\Processing\NEO\LaramiePiceanceFederal2820E\  
NEO\_PRESENTATION+PICEANCE FEDERAL 28-20E\_Merged\_Set\_Final.fvpdf [5"/100' Scale]  
Plot Interval : 3000 - 8358 Feet  
Data File 1 : F1 : BHIBZG9YY1:E:\Projects\Processing\NEO\LaramiePiceanceFederal2820E\  
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Created On : Nov 5 11:53:54 2015  
Company : LARAMIE ENERGY  
Well : PICEANCE FEDERAL 28-20E  
Field : VEGA  
File Interval : 3000 - 8358 Feet  
OCT : NA

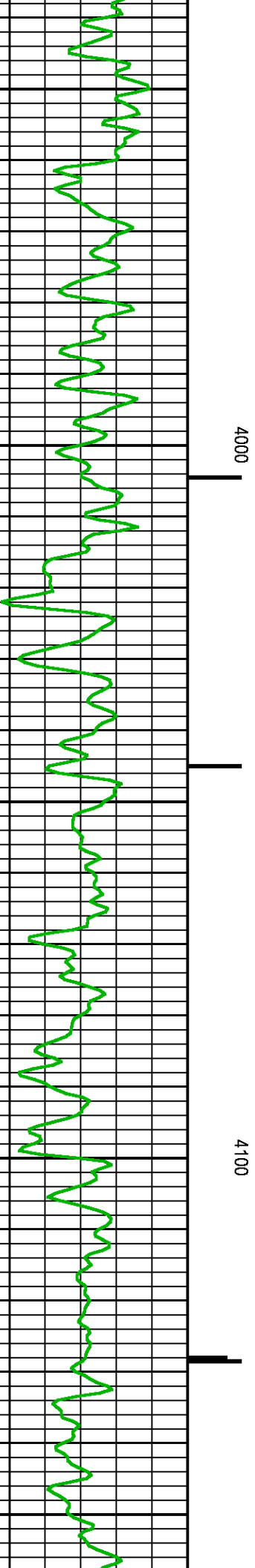
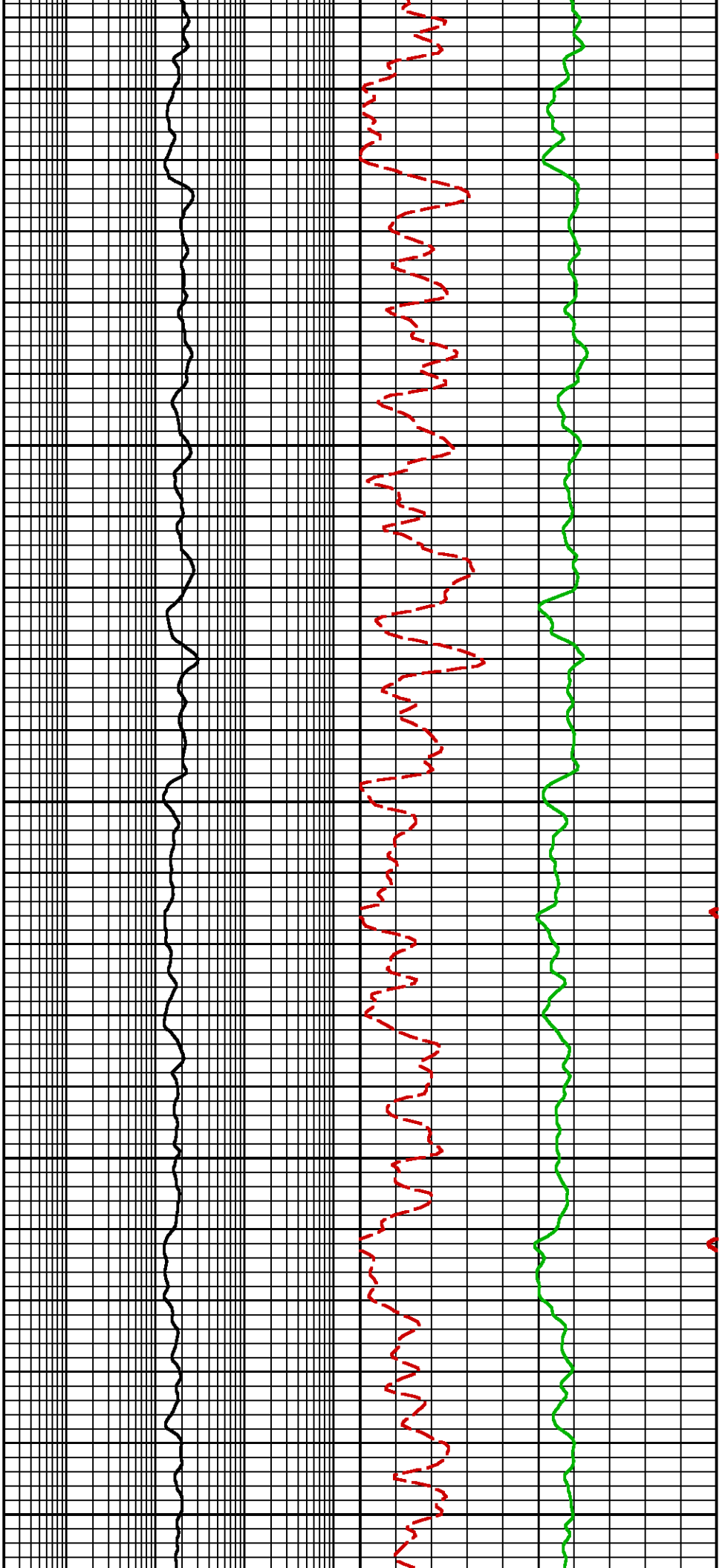


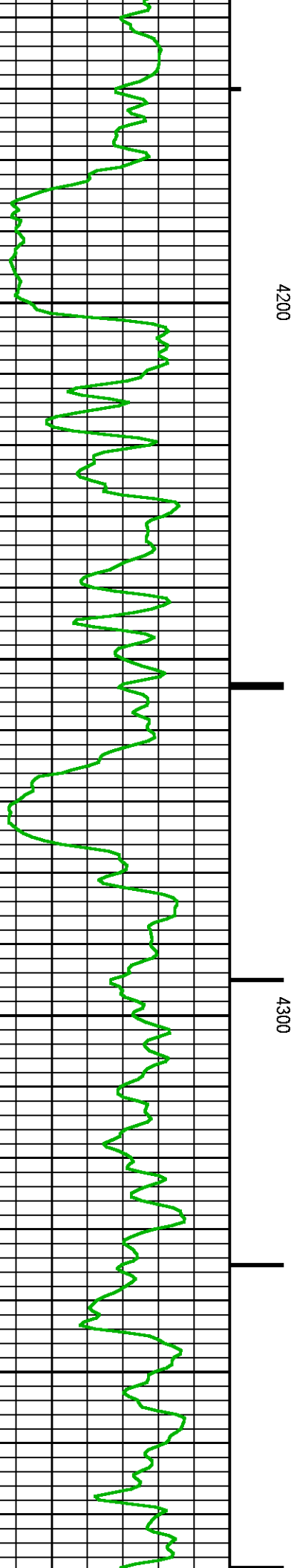
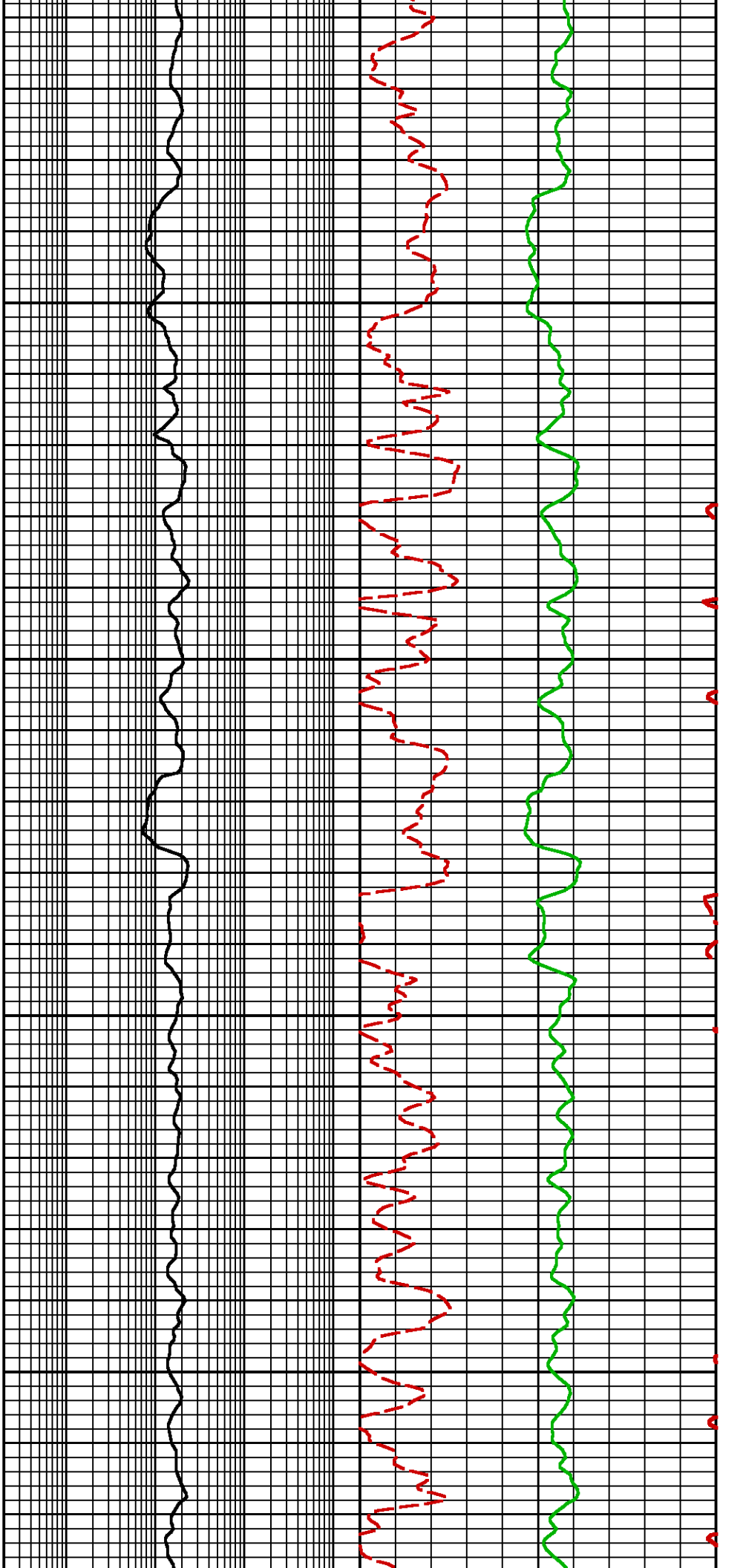


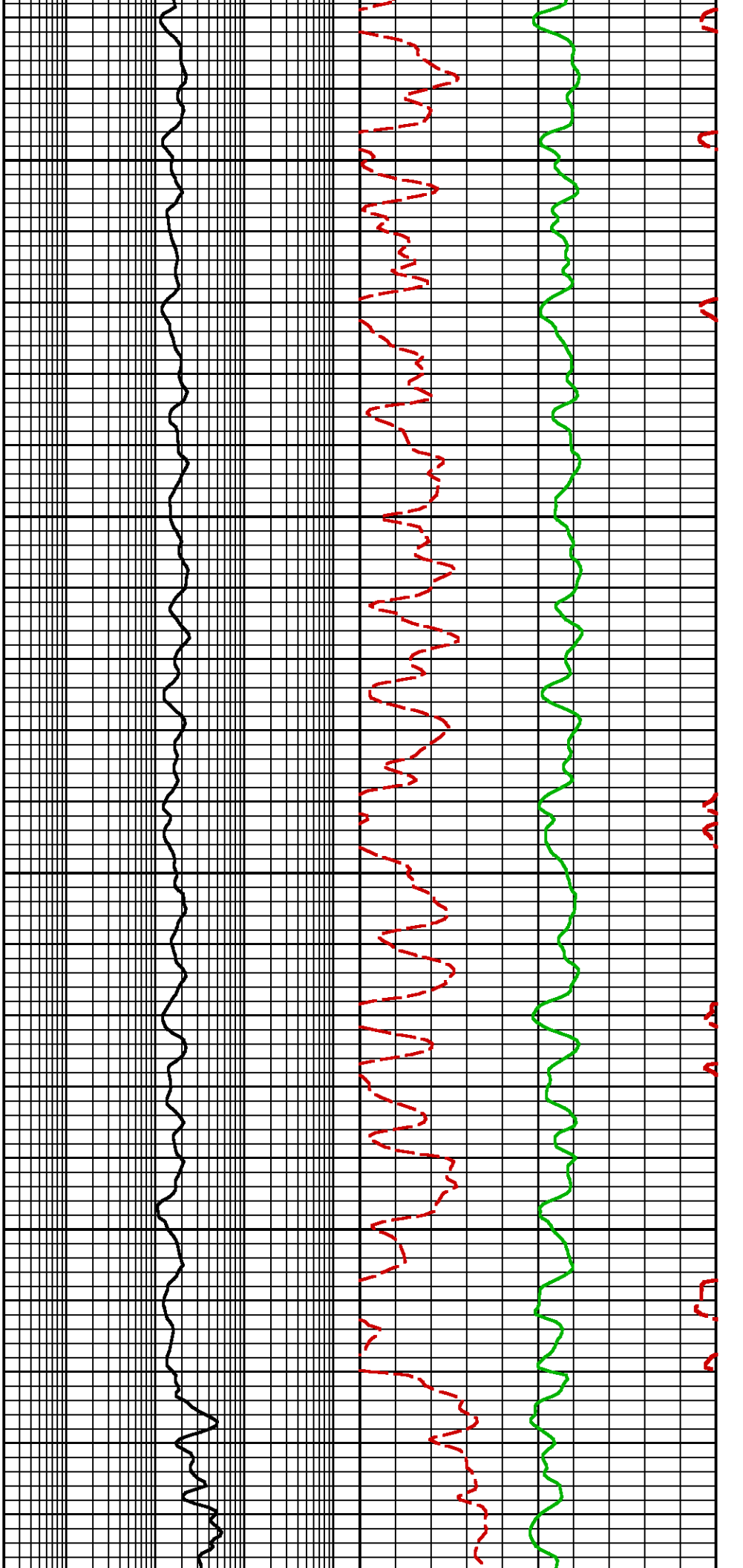






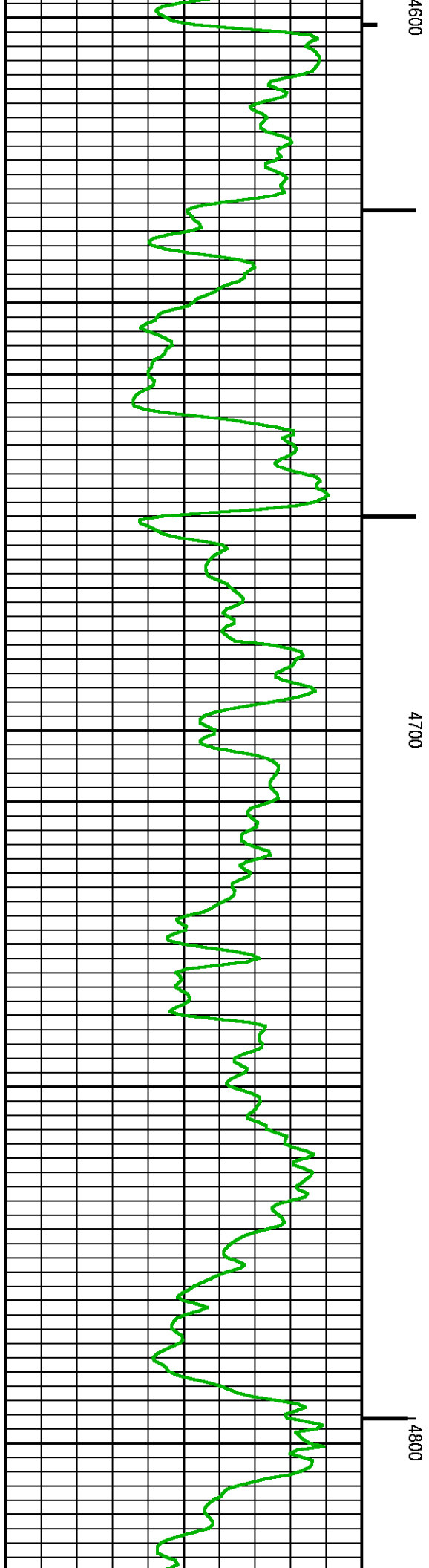
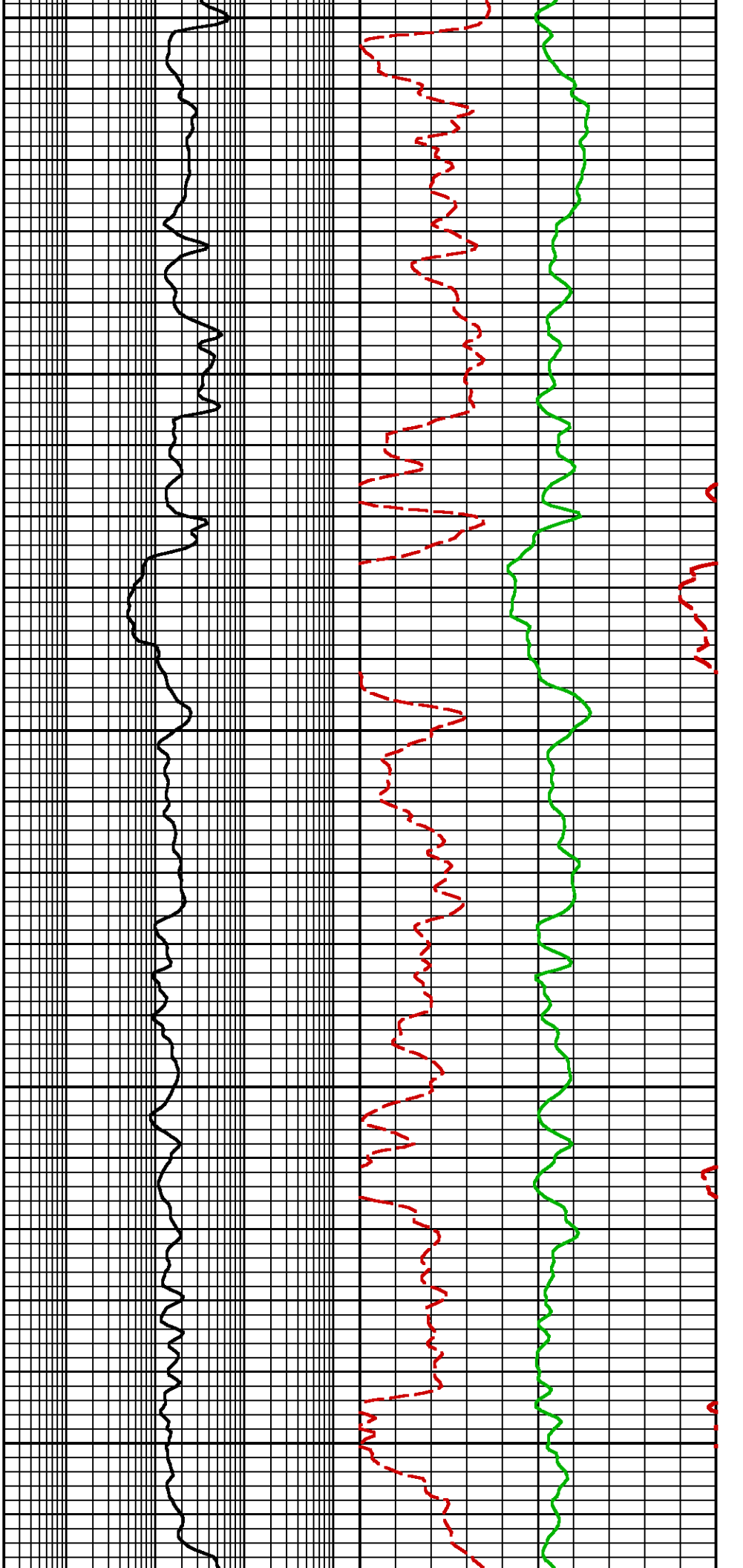


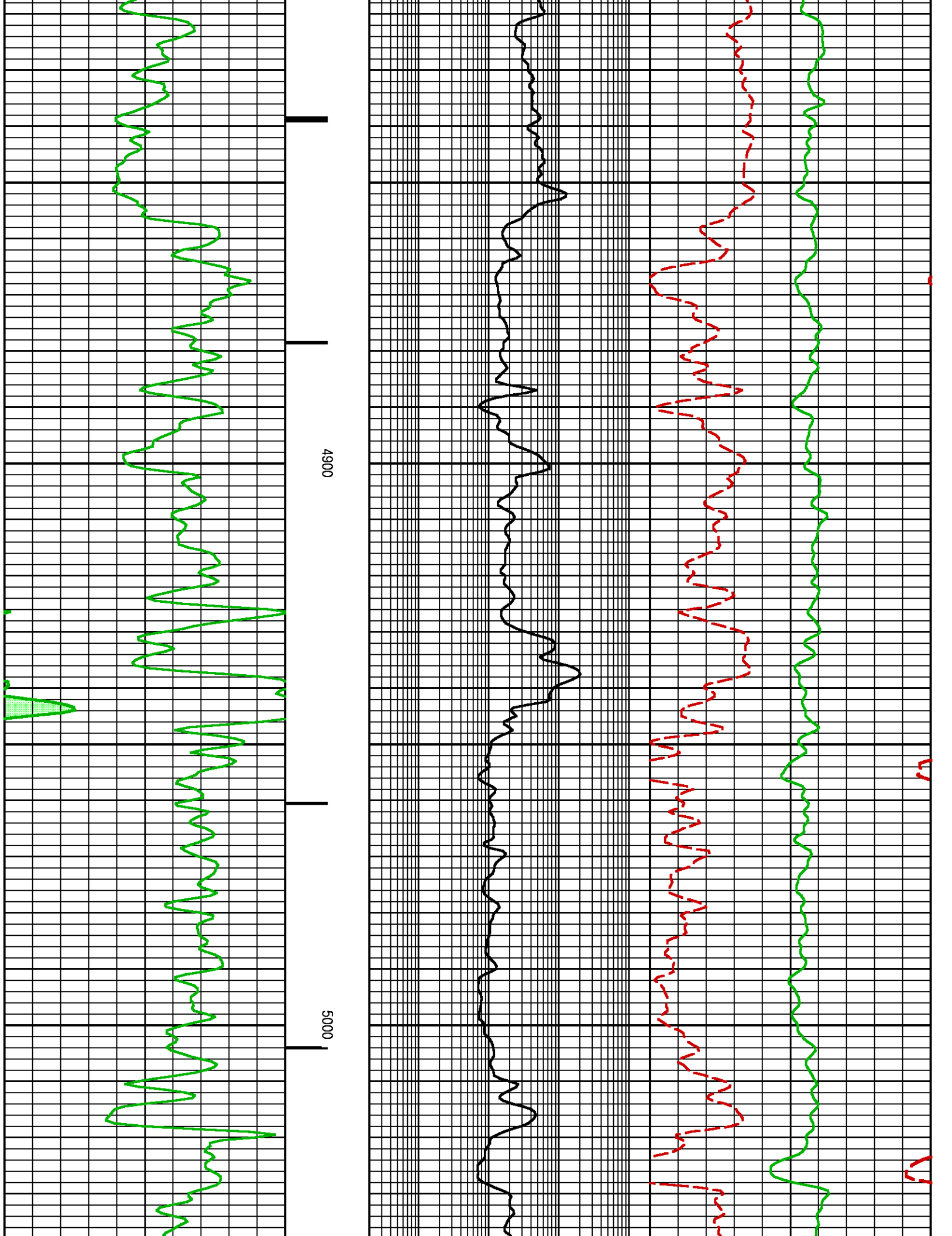


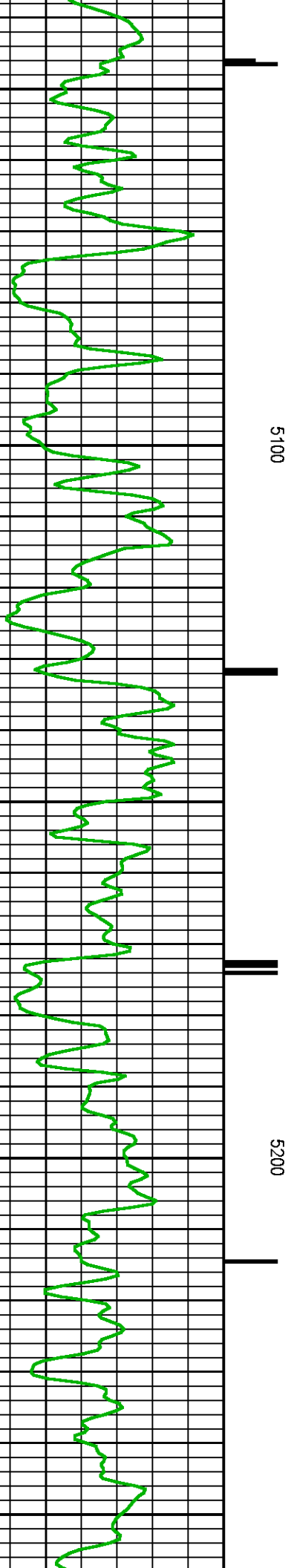
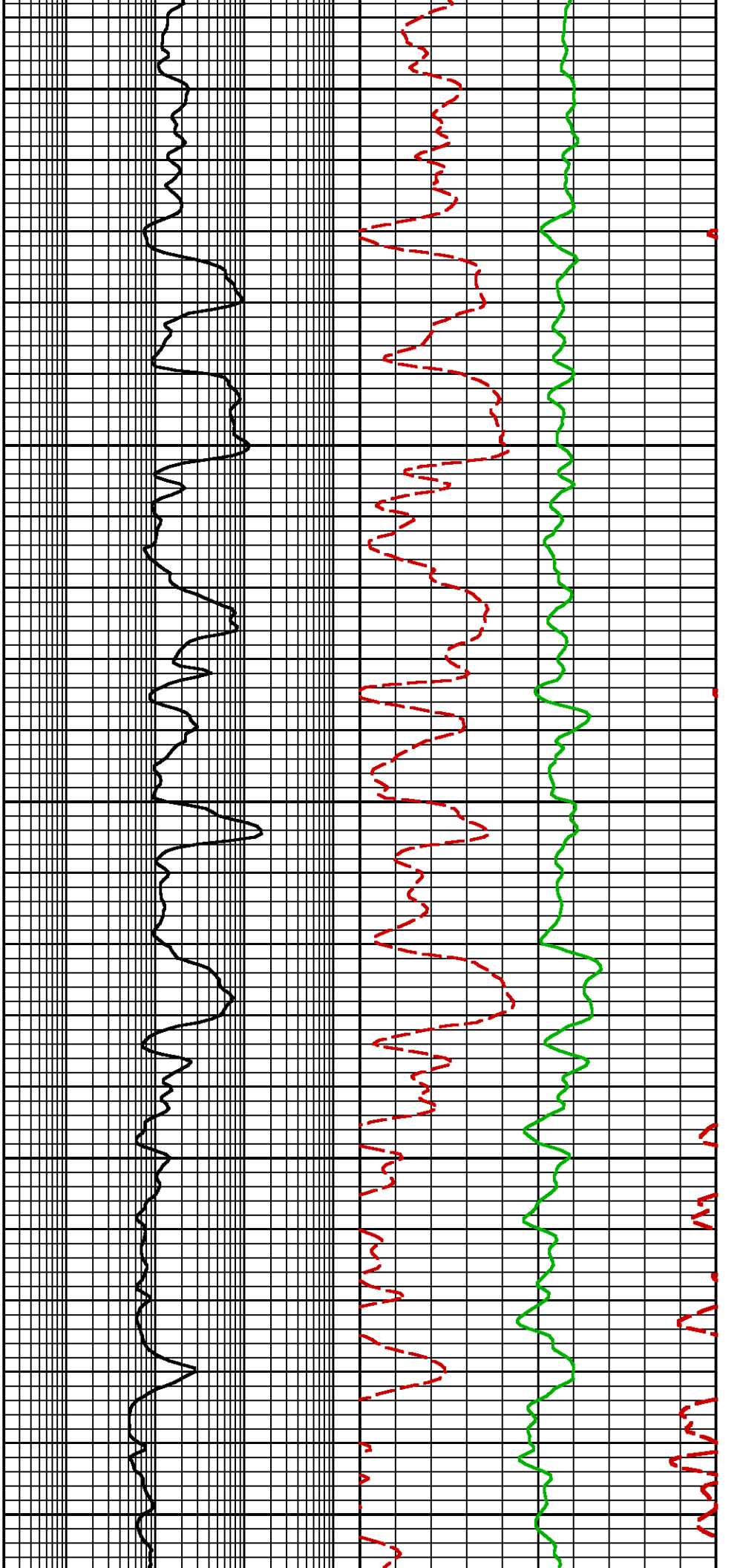


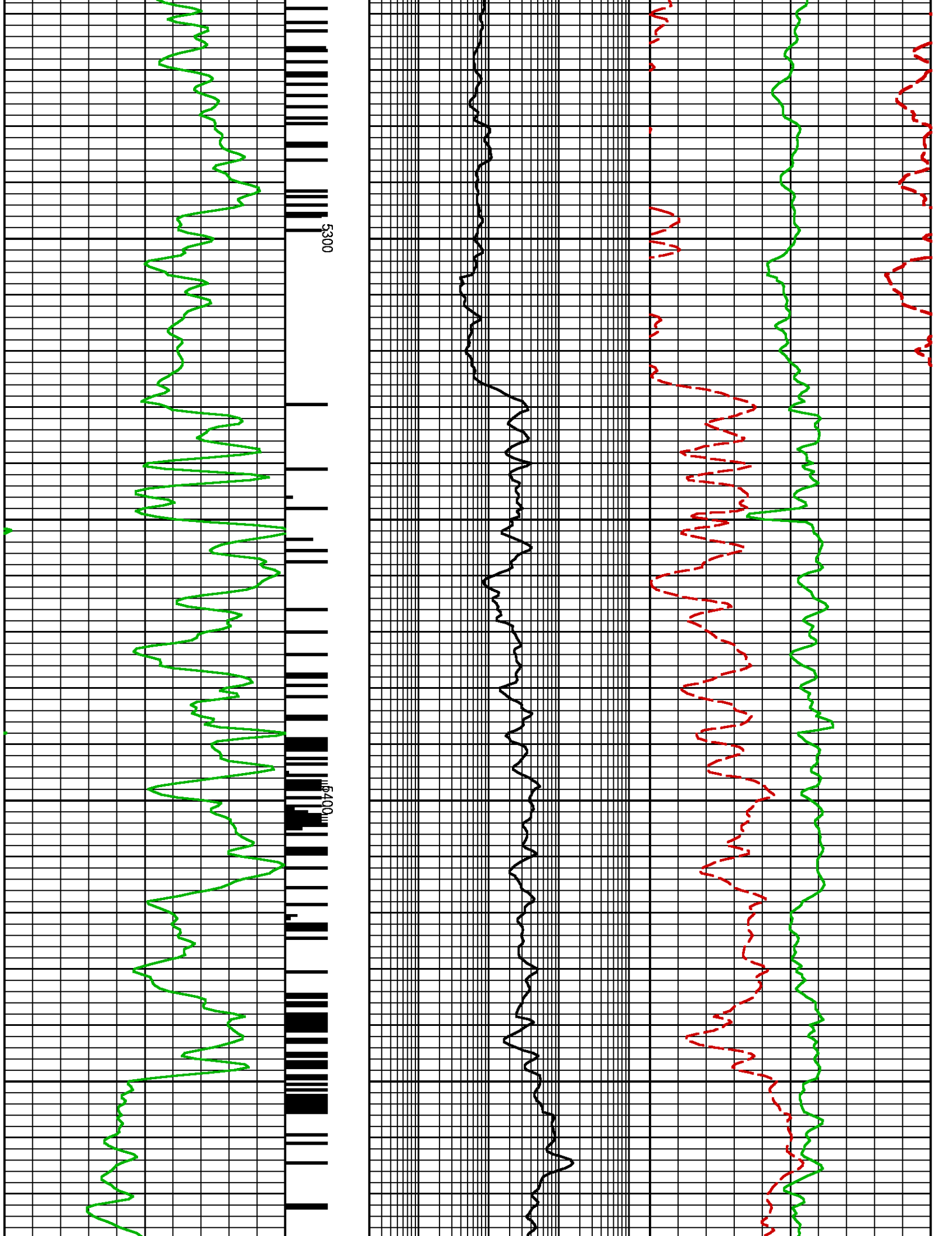
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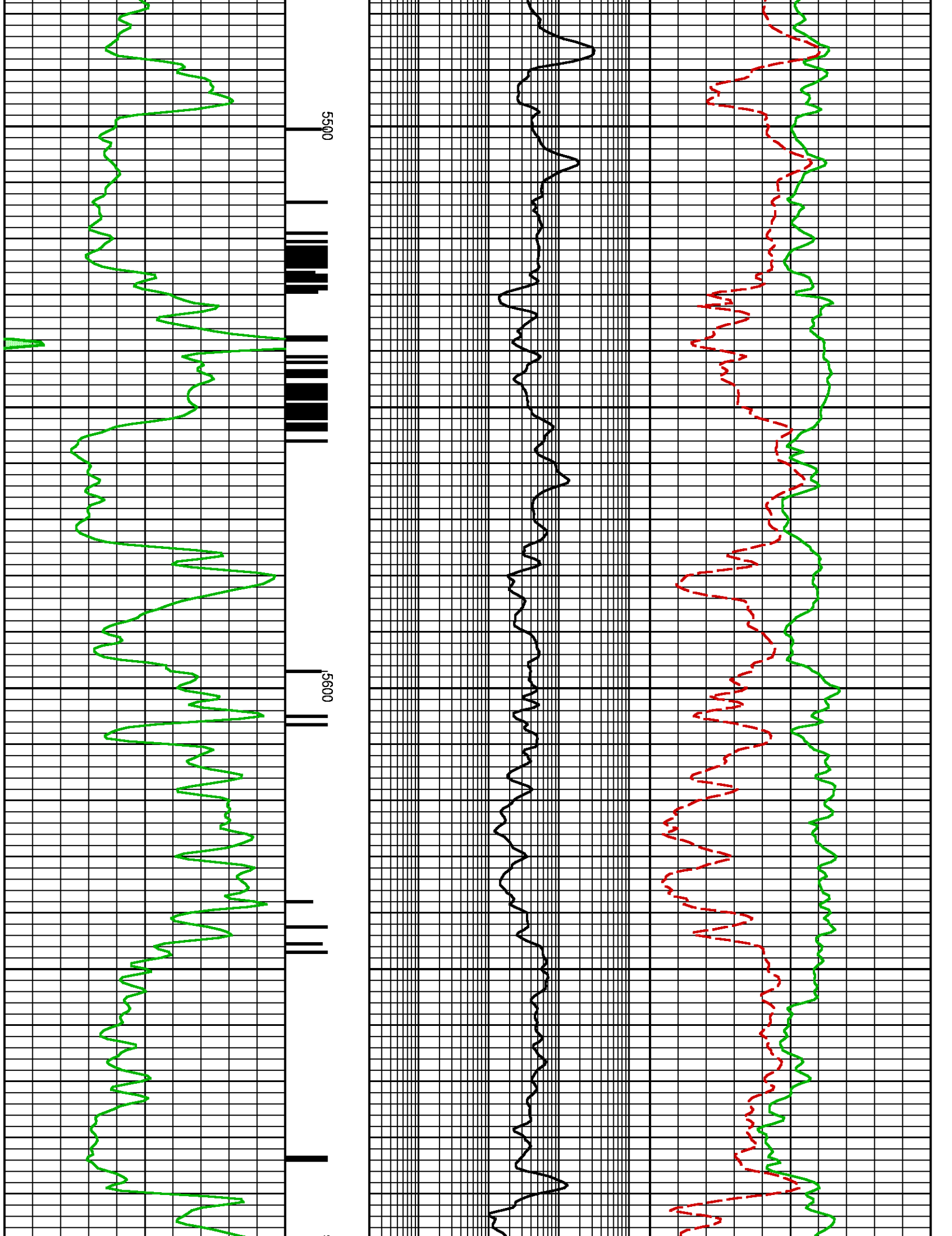
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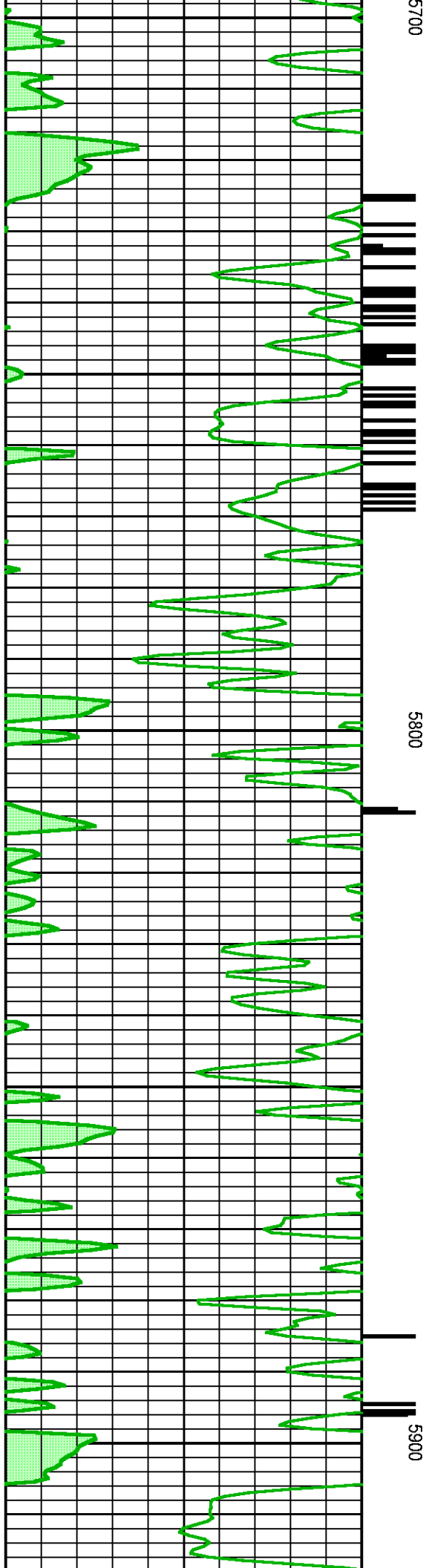
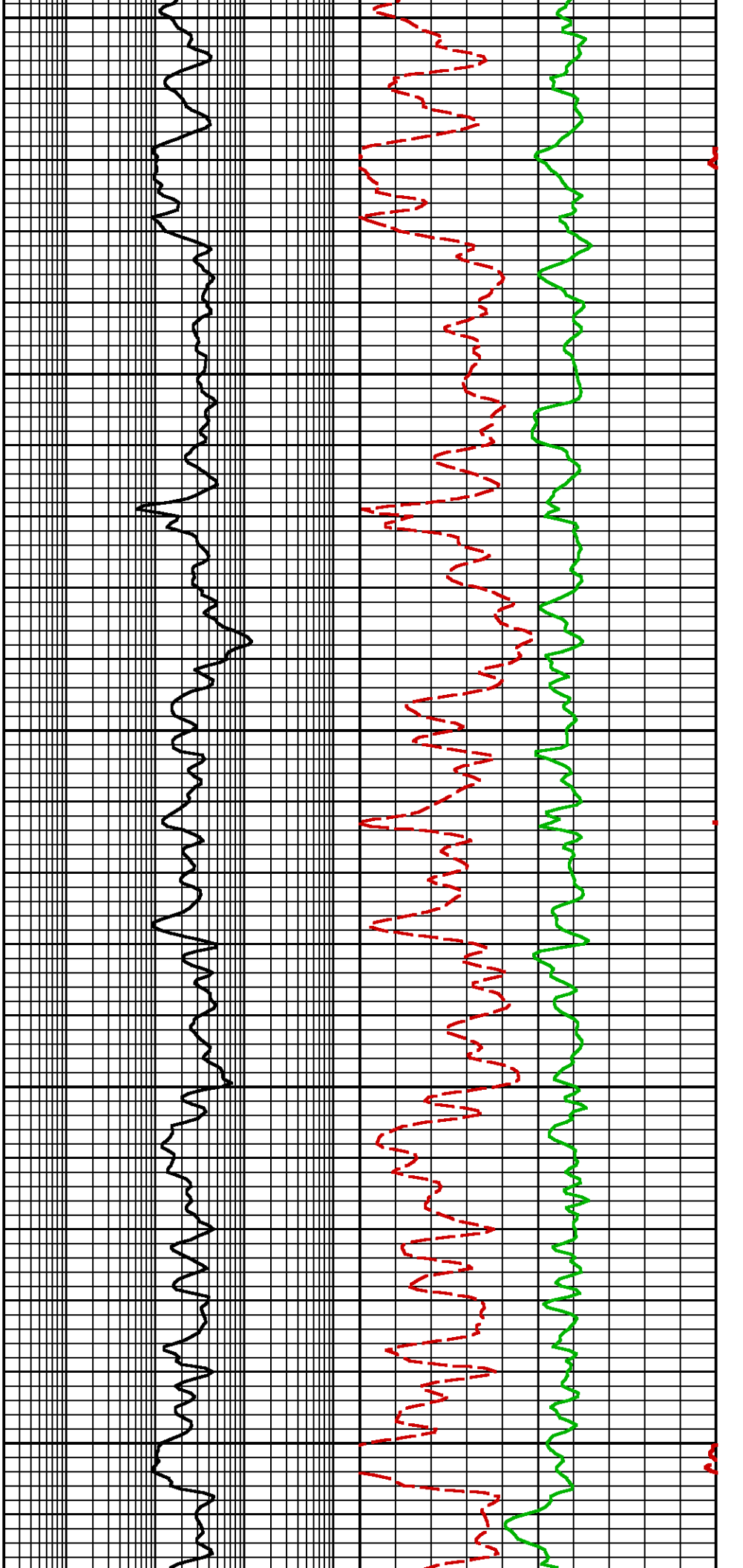


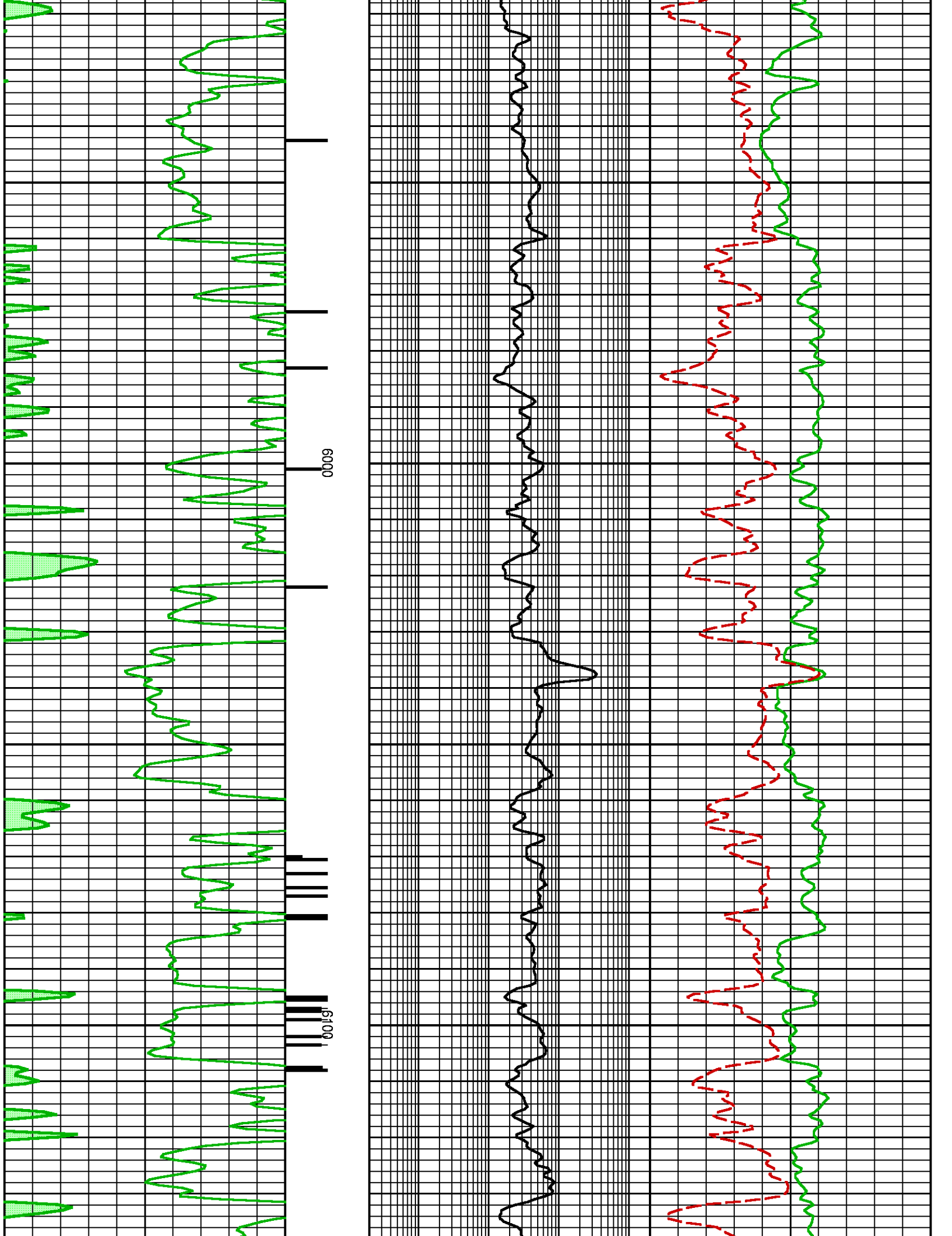


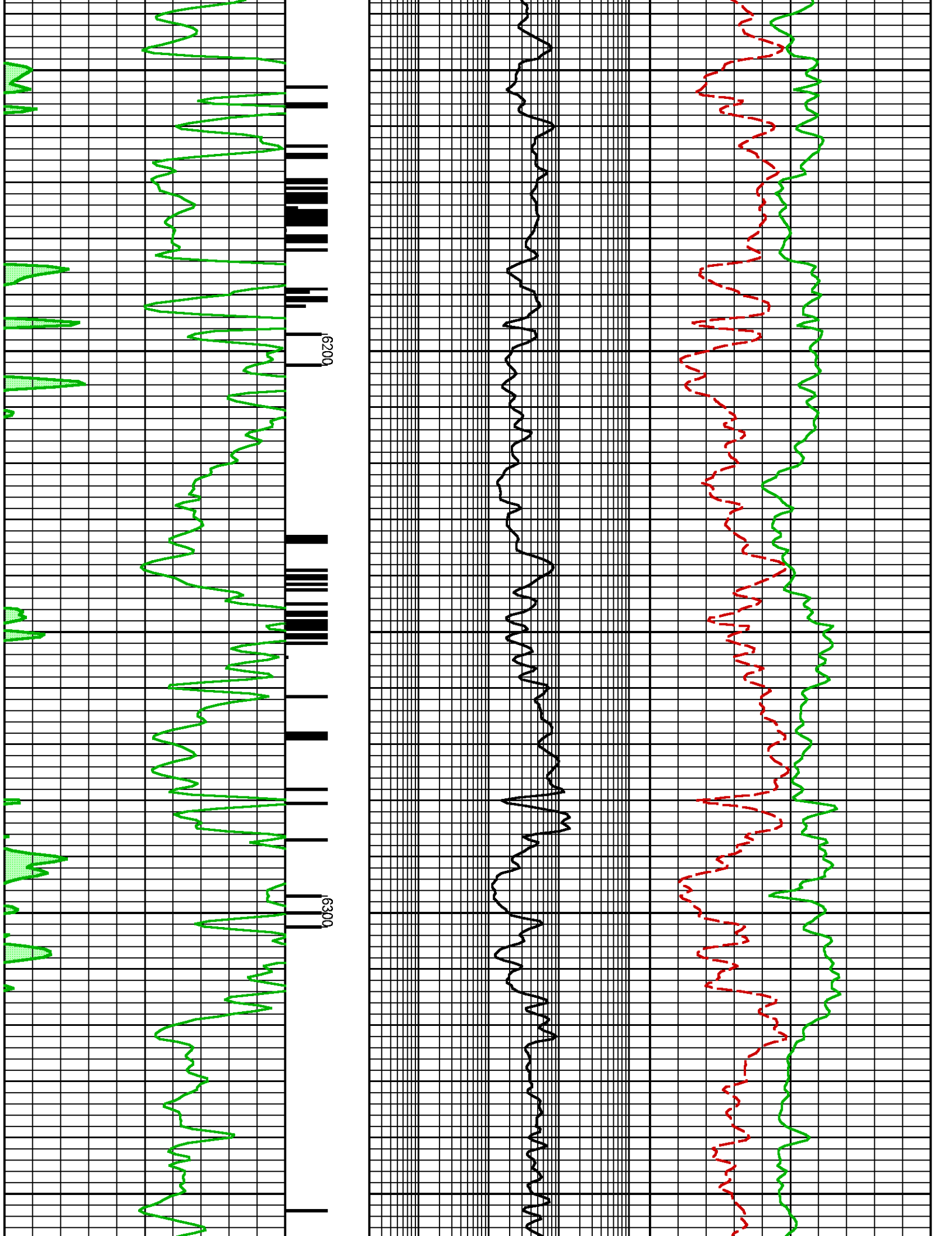


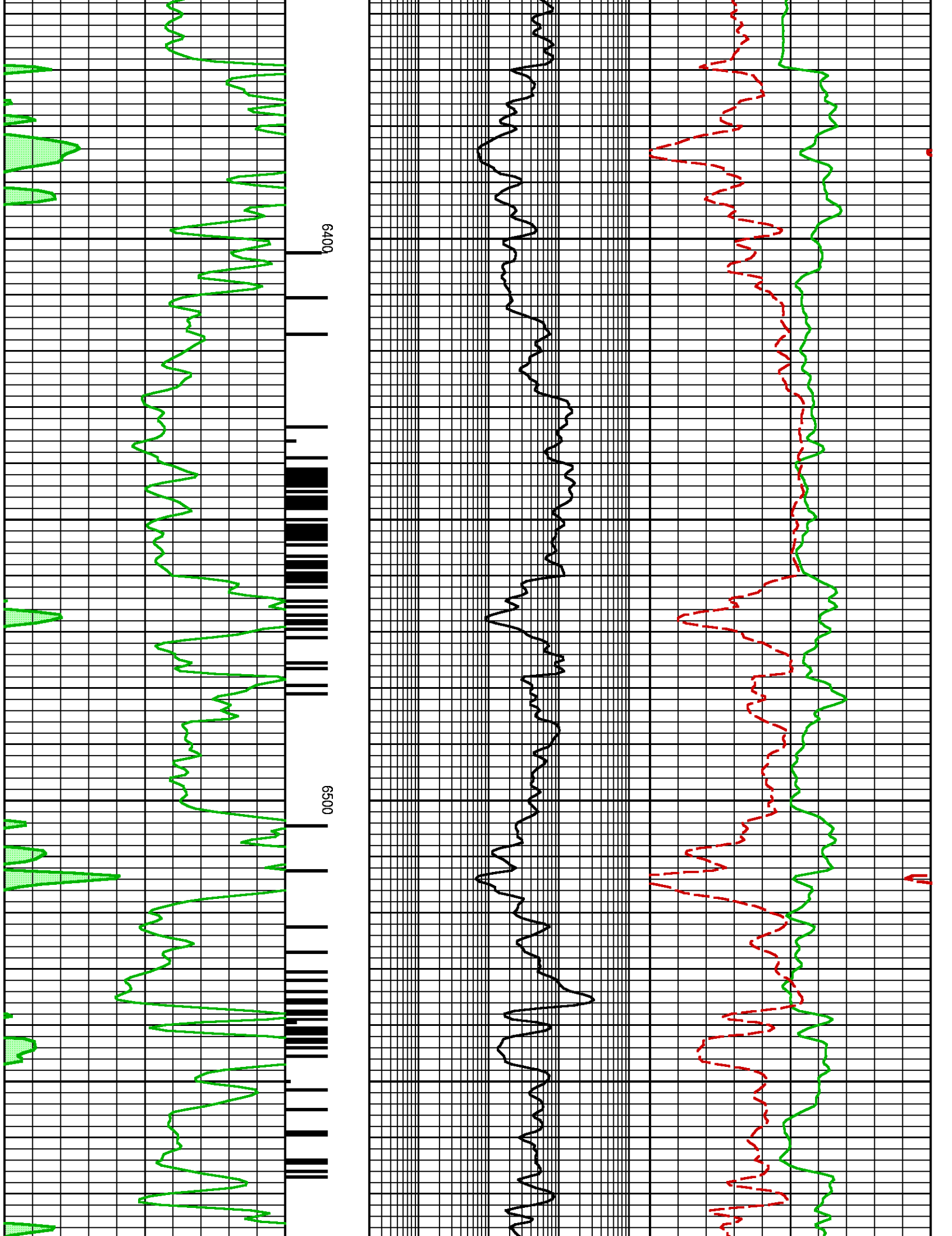


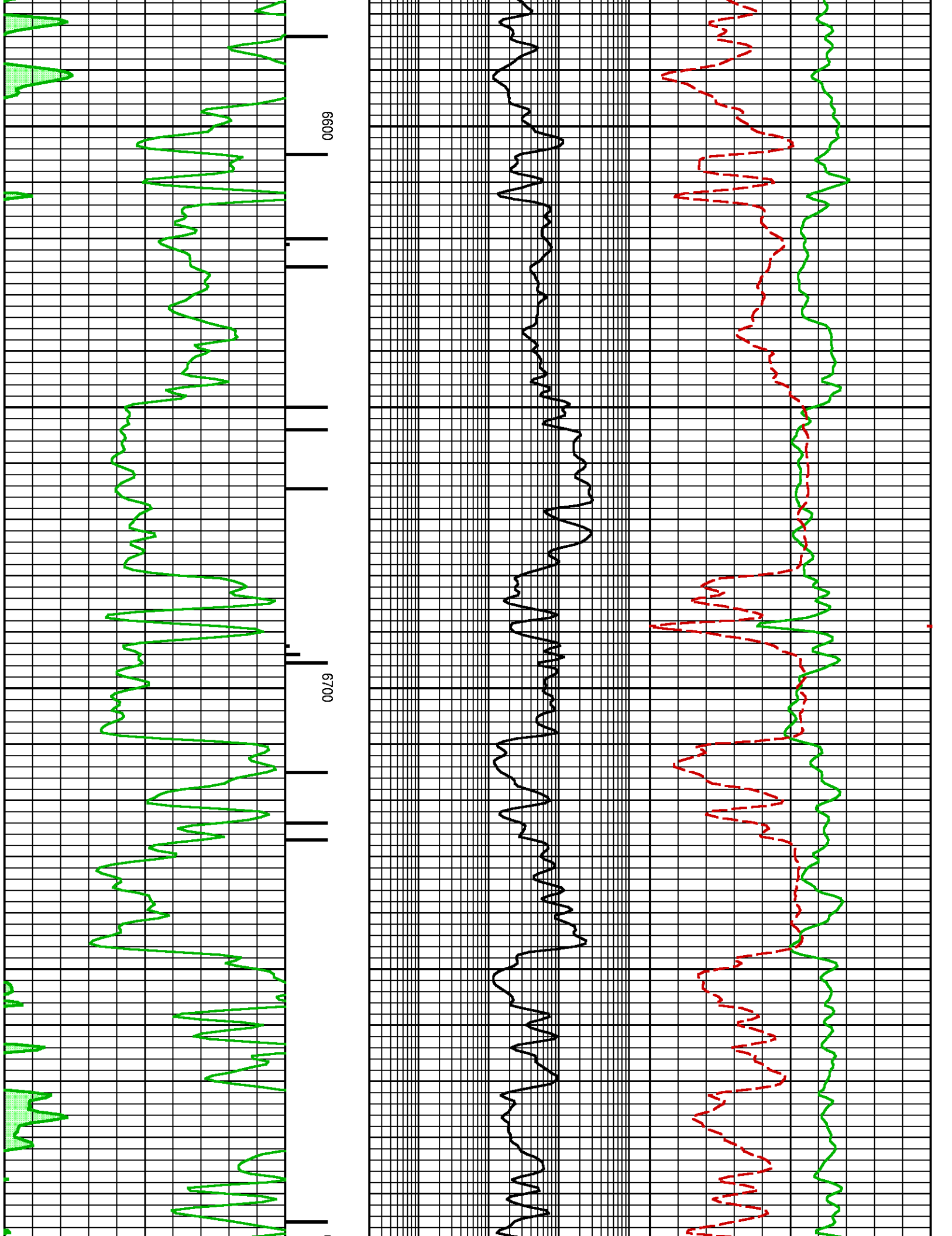


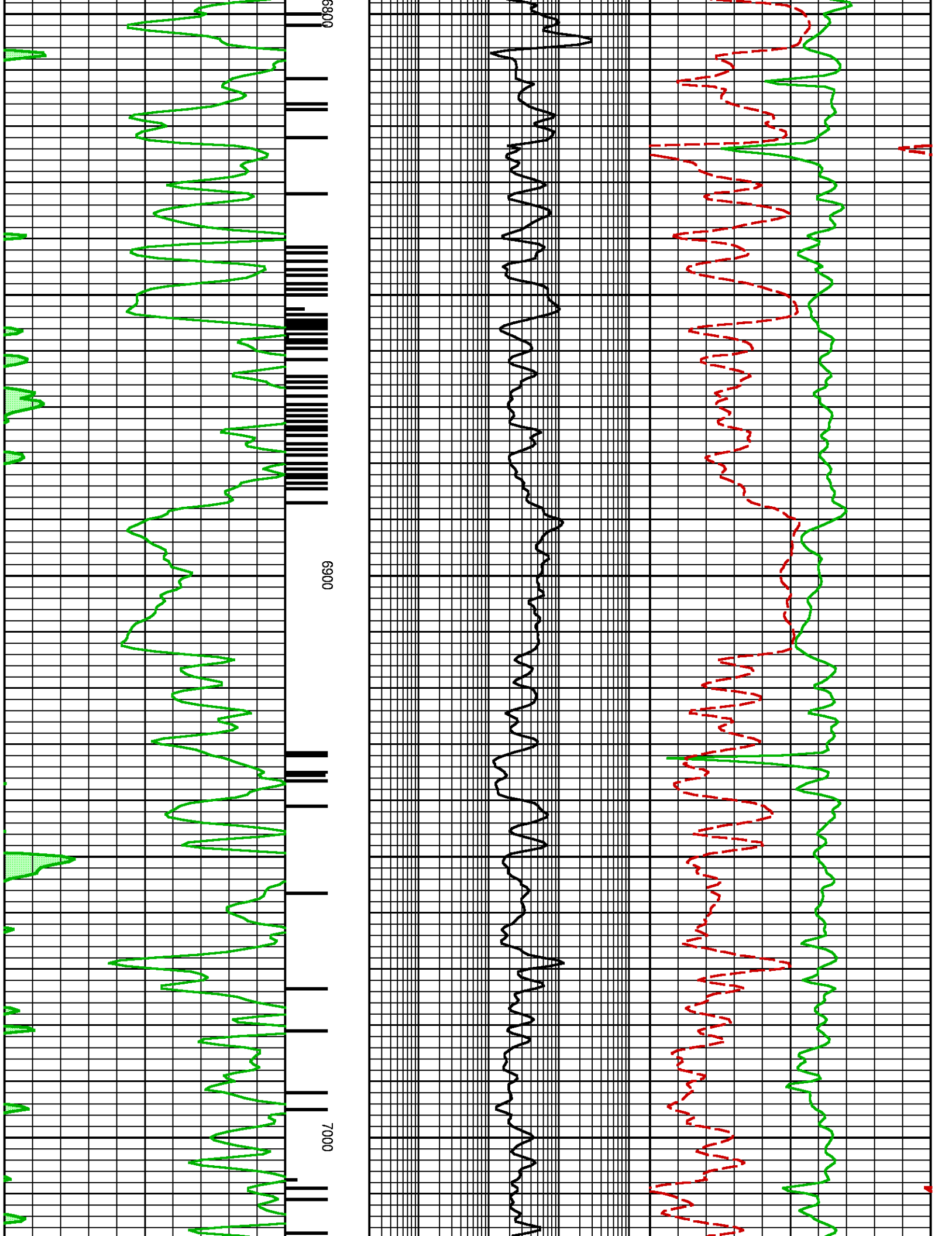


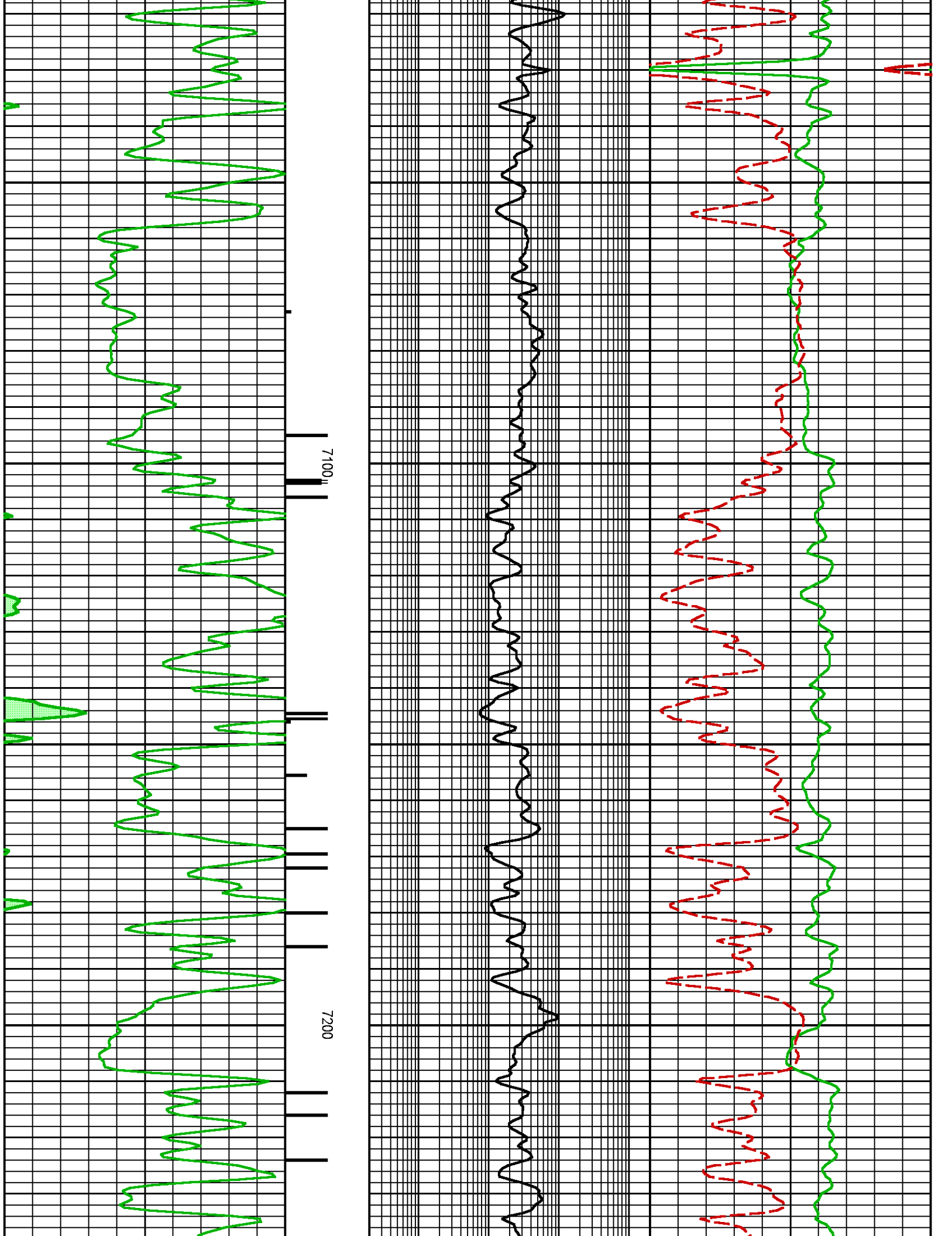


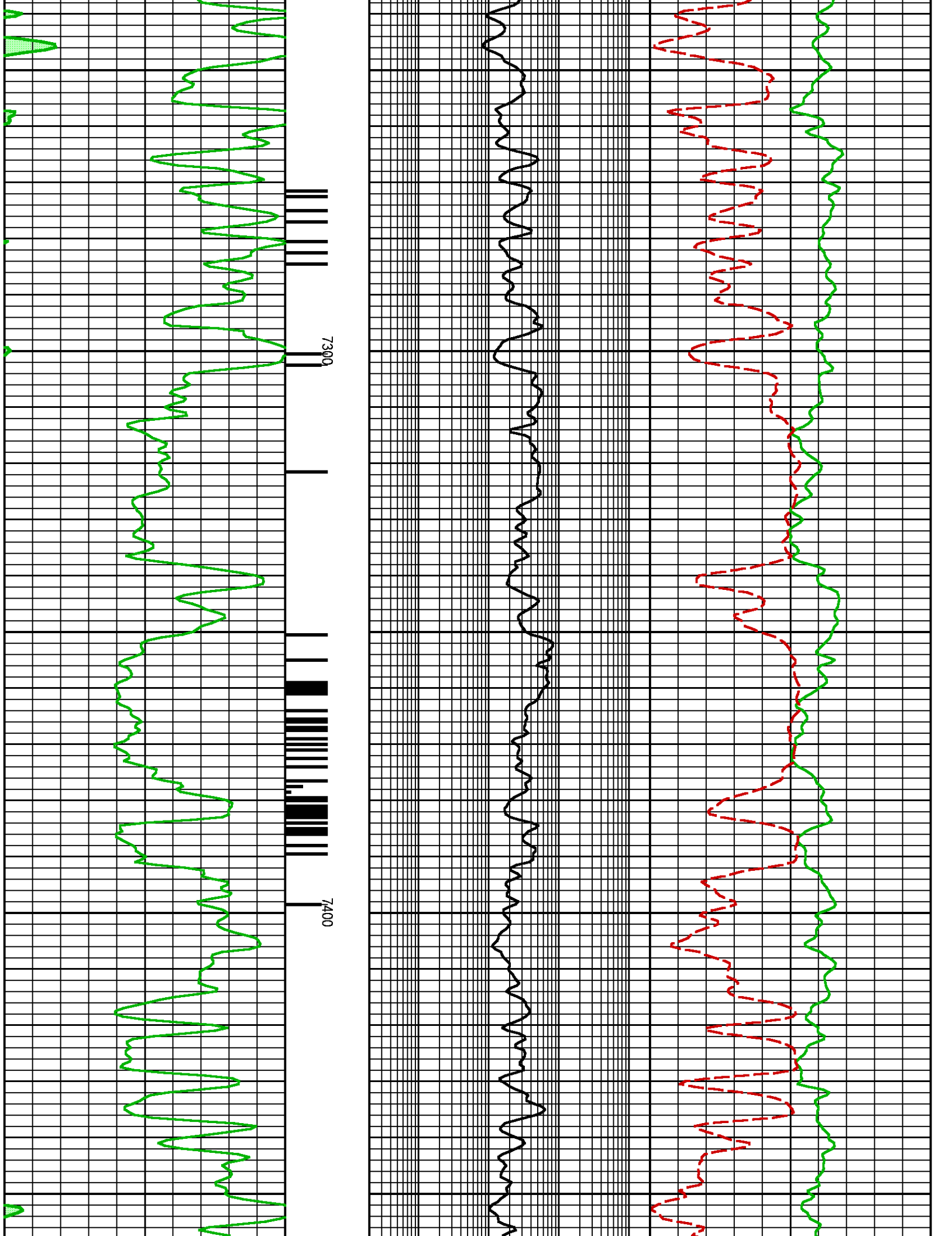


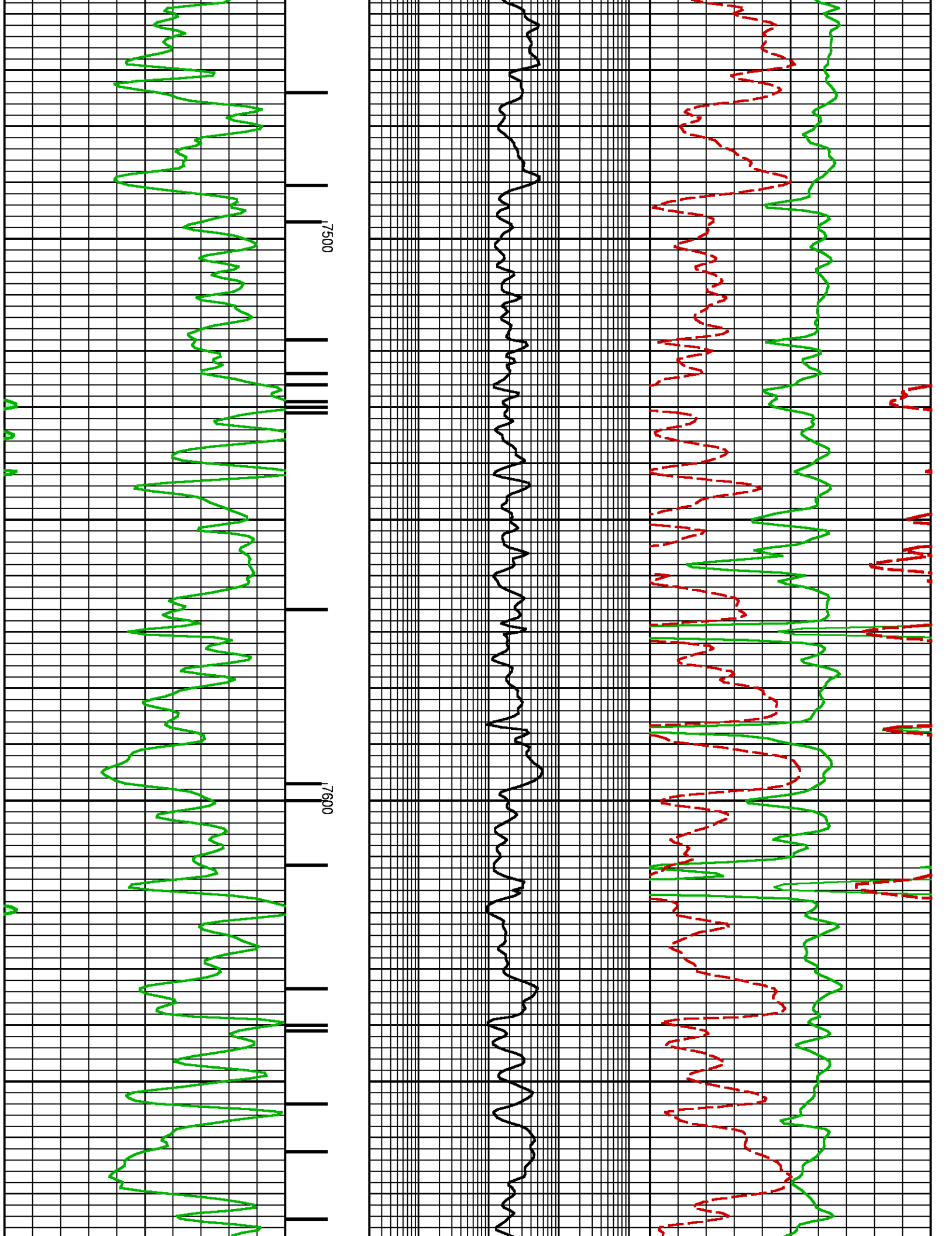


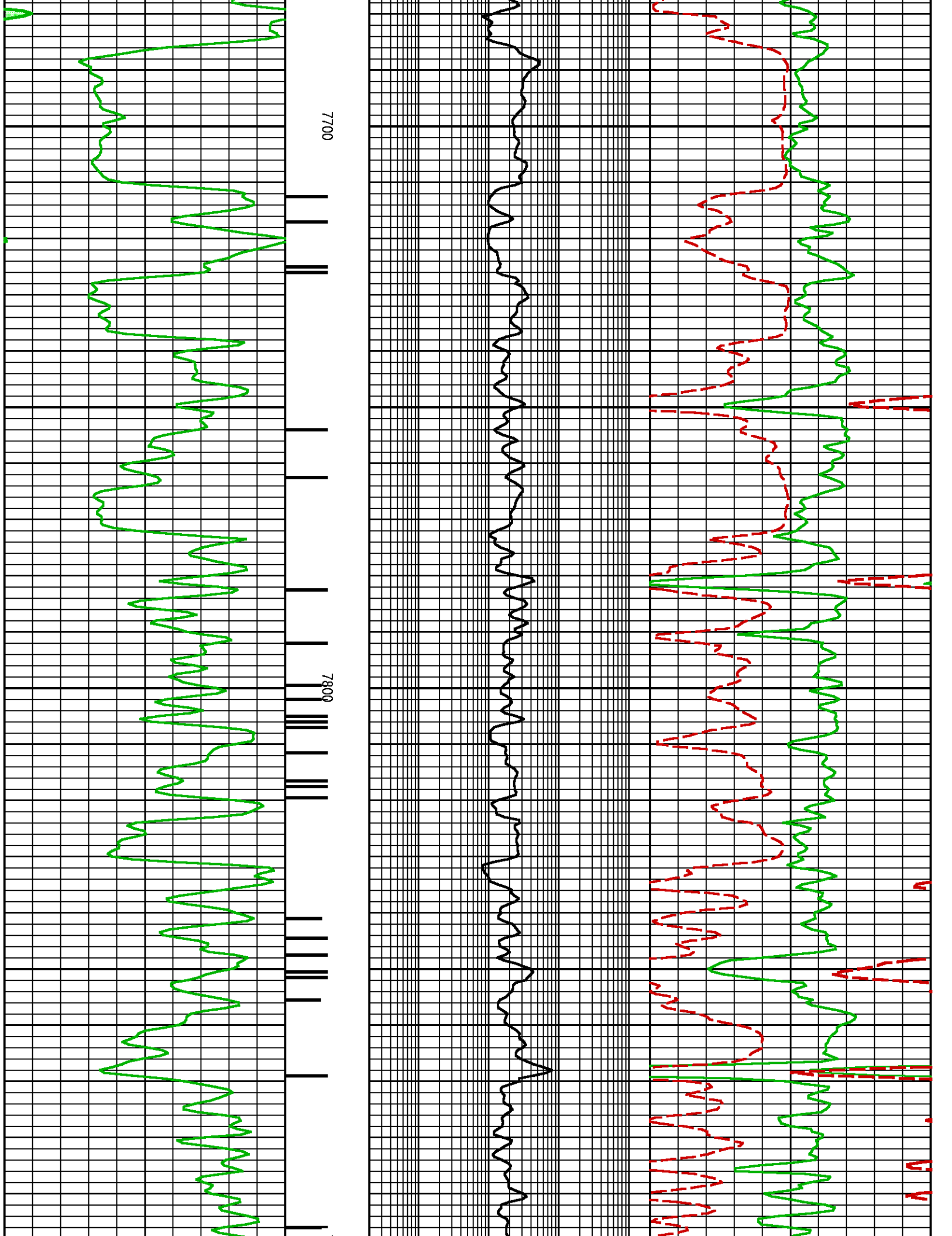


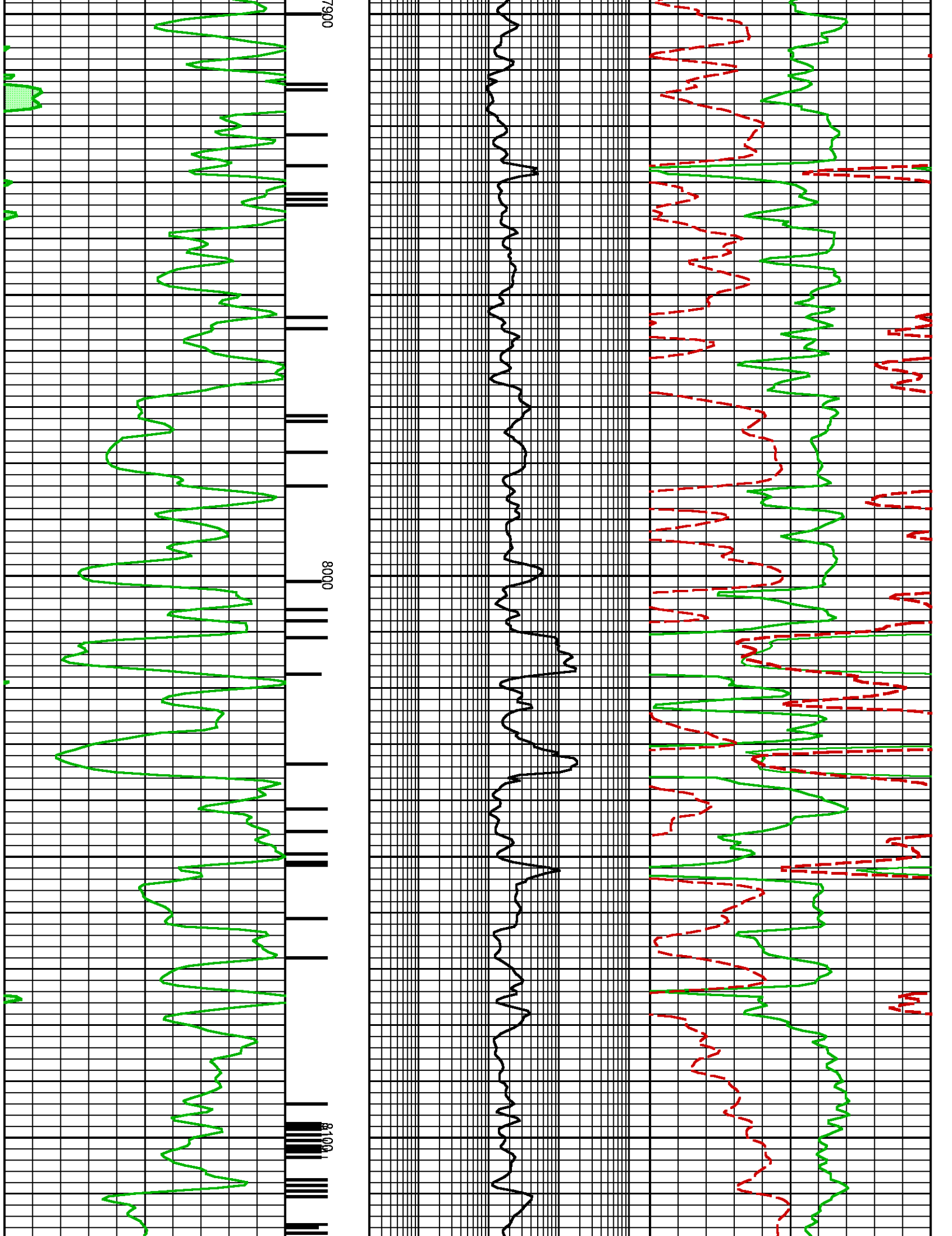


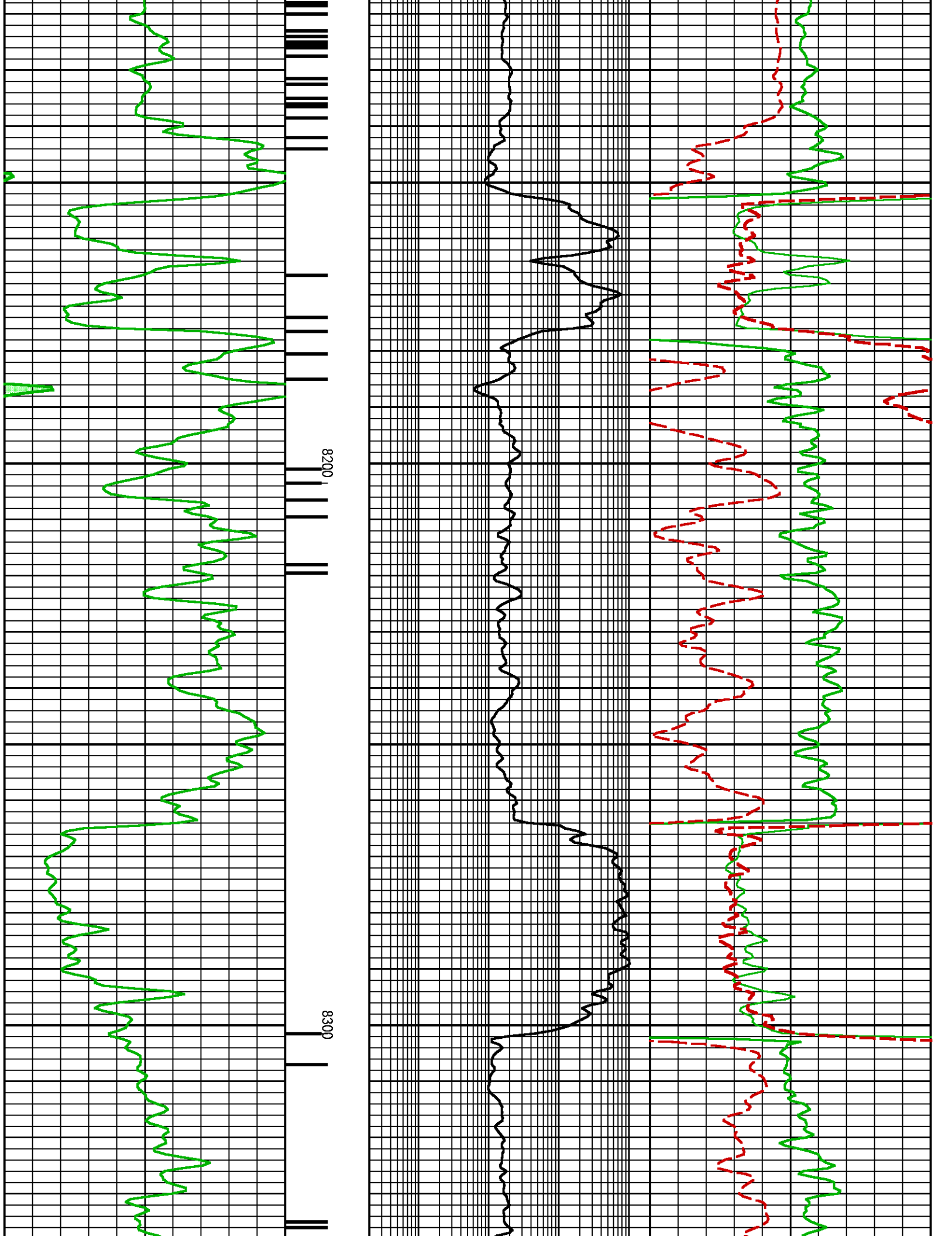


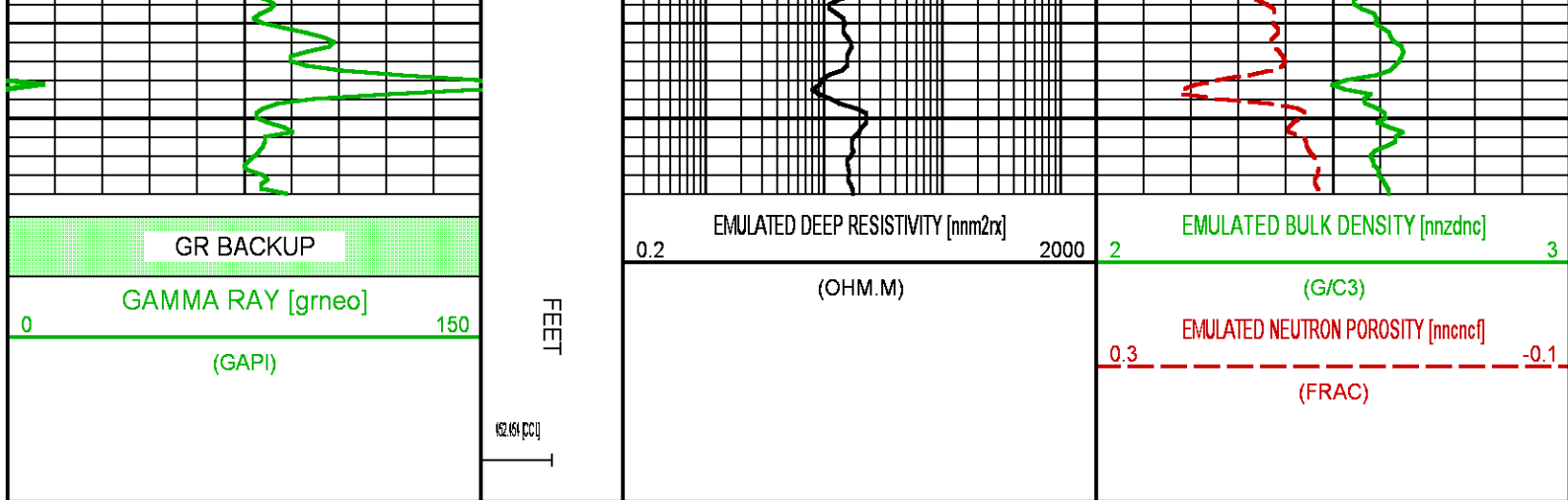



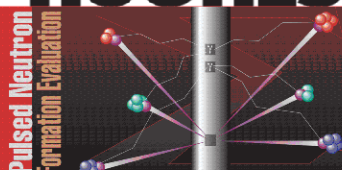










 <b>BAKER HUGHES</b> 	<b>COMPANY</b> <u>LARAMIE ENERGY</u> <b>WELL</b> <u>PICEANCE FEDERAL 28-20E</u> <b>FIELD</b> <u>VEGA</u> <b>COUNTY</b> <u>MESA</u> <b>STATE</b> <u>COLORADO</u>	<b>FILE NO:</b> <u>21132-01</u> <b>API NO:</b> <u>05077102560000</u>
	<b>LOCATION:</b> <u>SEE REMARKS SECTION</u>	<b>ELEVATIONS:</b> KB <u>7701 FT</u> DF GL <u>7679 FT</u>
	<b>SEC</b> <u>28</u> <b>TWP</b> <u>9S</u> <b>RGE</b> <u>93W</u>	<b>DATE</b> <u>05-NOV-2015</u>