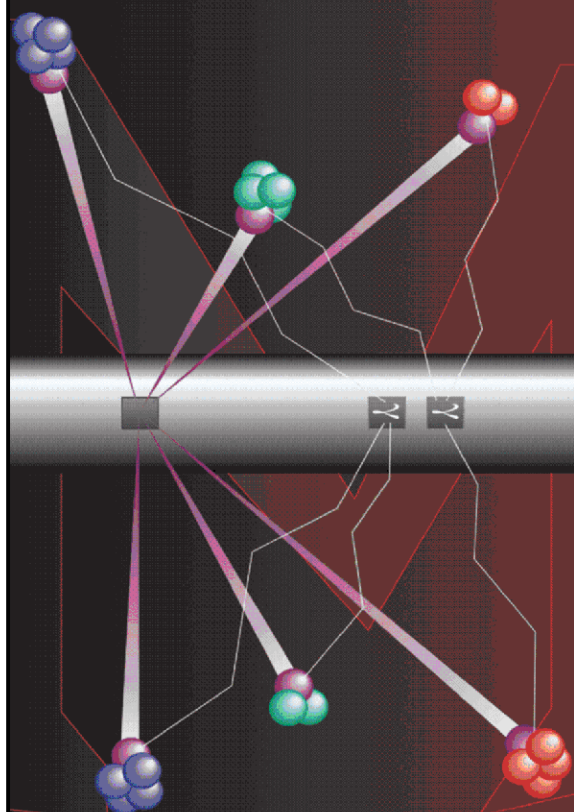




Pulsed Neutron Formation Evaluation



NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY

WELL GUNDERSON 29-14E

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS SECTION

SEC 29 TWP 9S RGE 93W

ELEVATIONS:

KB 7553 FT DF GL 7531 FT

DATE 4-AUG-2015 ECC 20063-01

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>04-AUG-2015</u>
FIELD DATA	LOCATION: <u>GRAND JCT</u>		ENGINEER: <u>T. NEWELL</u>	DATE: <u>22-JUL-2015</u>
FROM	TO			
<u>2470 FT</u>	<u>3060 FT</u>			
<u>4450 FT</u>	<u>7630 FT</u>			

REMARKS

LOCATION:
SHL: LAT 39.248804 LONG -107.787901
BHL: LAT 39.246113 LONG -107.786788

TRAINING WELL: GUNDERSON 29-11E

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

BOND LOG IS REFERENCE LOG

NEO RESULTS FOR GUNDERSON 29-14E (GSAND)

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

Plotted: Tue Aug 04 16:49:14 2015

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				

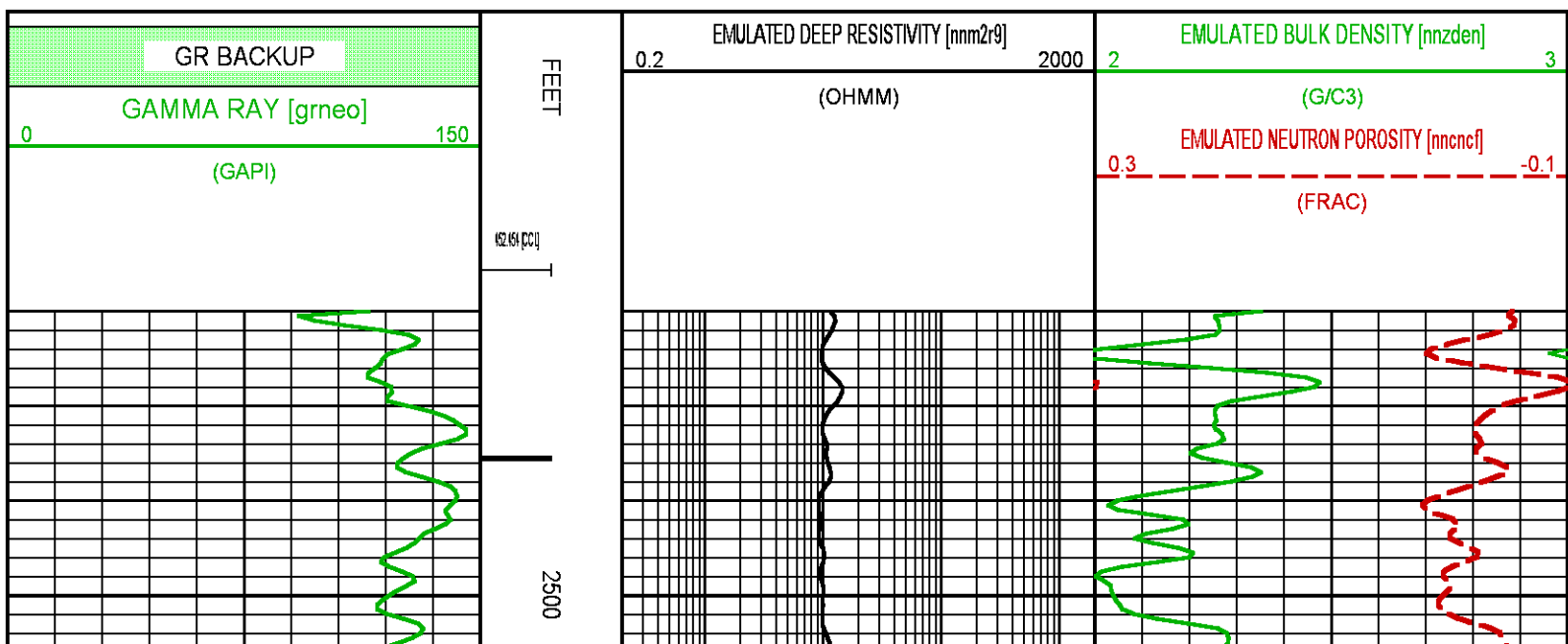
Project : NA
User : kamgseb
Presentation : BHIBZG9YY1:E:\Projects\Processing\NEO\LaramieGunderson2914E\
 1NEO_PRESENTATION+GUNDERSON 29-14E_Merged_Set_Final.fvpdf [5"/100' Scale]
Plot Interval : 2470 - 3060 Feet

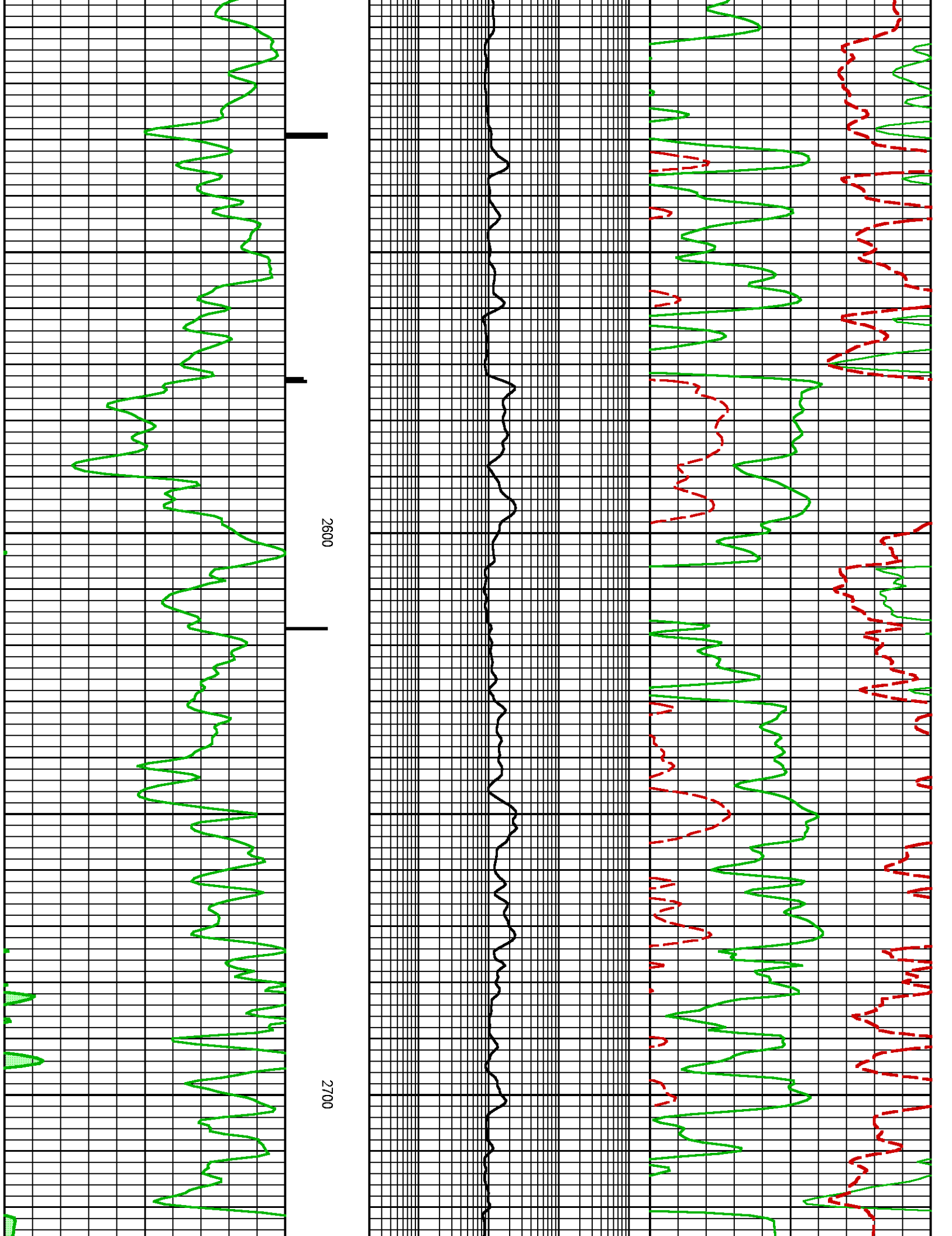
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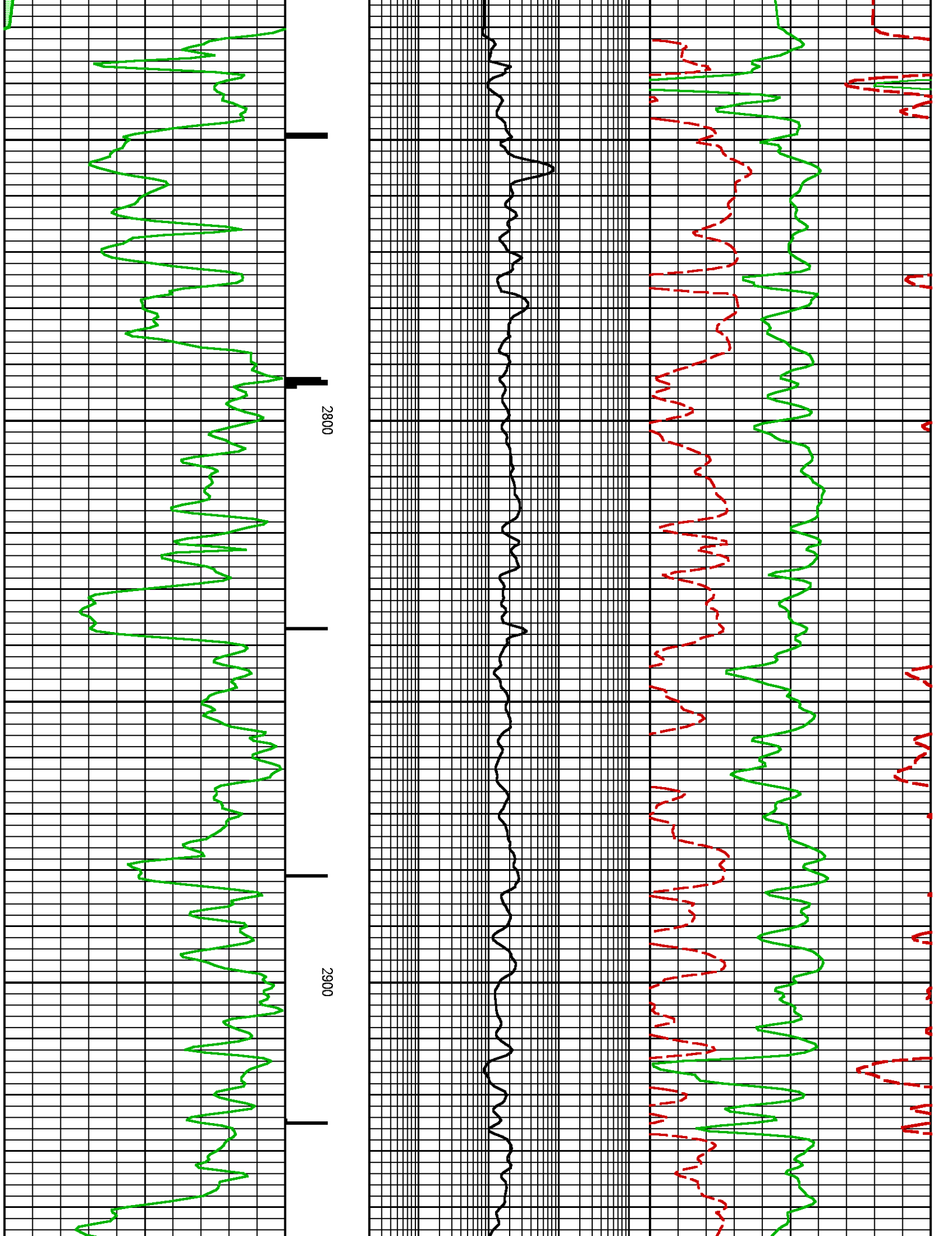
Created On : Aug 4 11:52:59 2015
Company : LARAMIE ENERGY
Well : GUNDERSON 29-14E
Field : VEGA
File Interval : 6.5 - 7674 Feet
OCT : NA

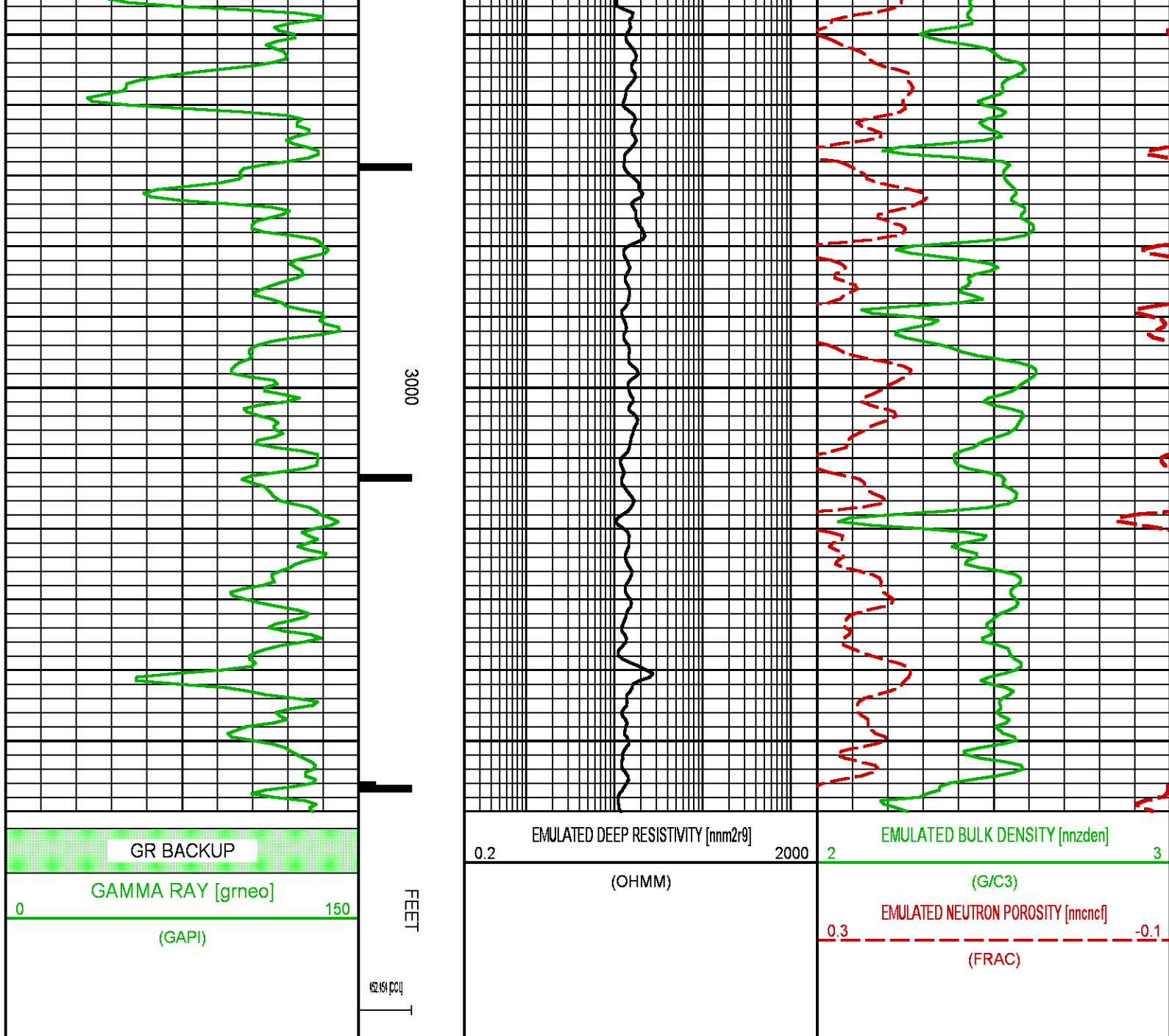
Data File 2 : F2 : BHIBZG9YY1:E:\Projects\Processing\NEO\LaramieGunderson2914E\
 LARAMIE GUNDERSON 29-14E CBL.xtf

Created On : Aug 4 11:52:59 2015
Company : LARAMIE ENERGY
Well : GUNDERSON 29-14E
Field : VEGA
File Interval : 14 - 7674 Feet
OCT : NA









NEO RESULTS FOR GUNDERSON 29-14E (MAIN)

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

Plotted: Tue Aug 04 16:48:49 2015

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				

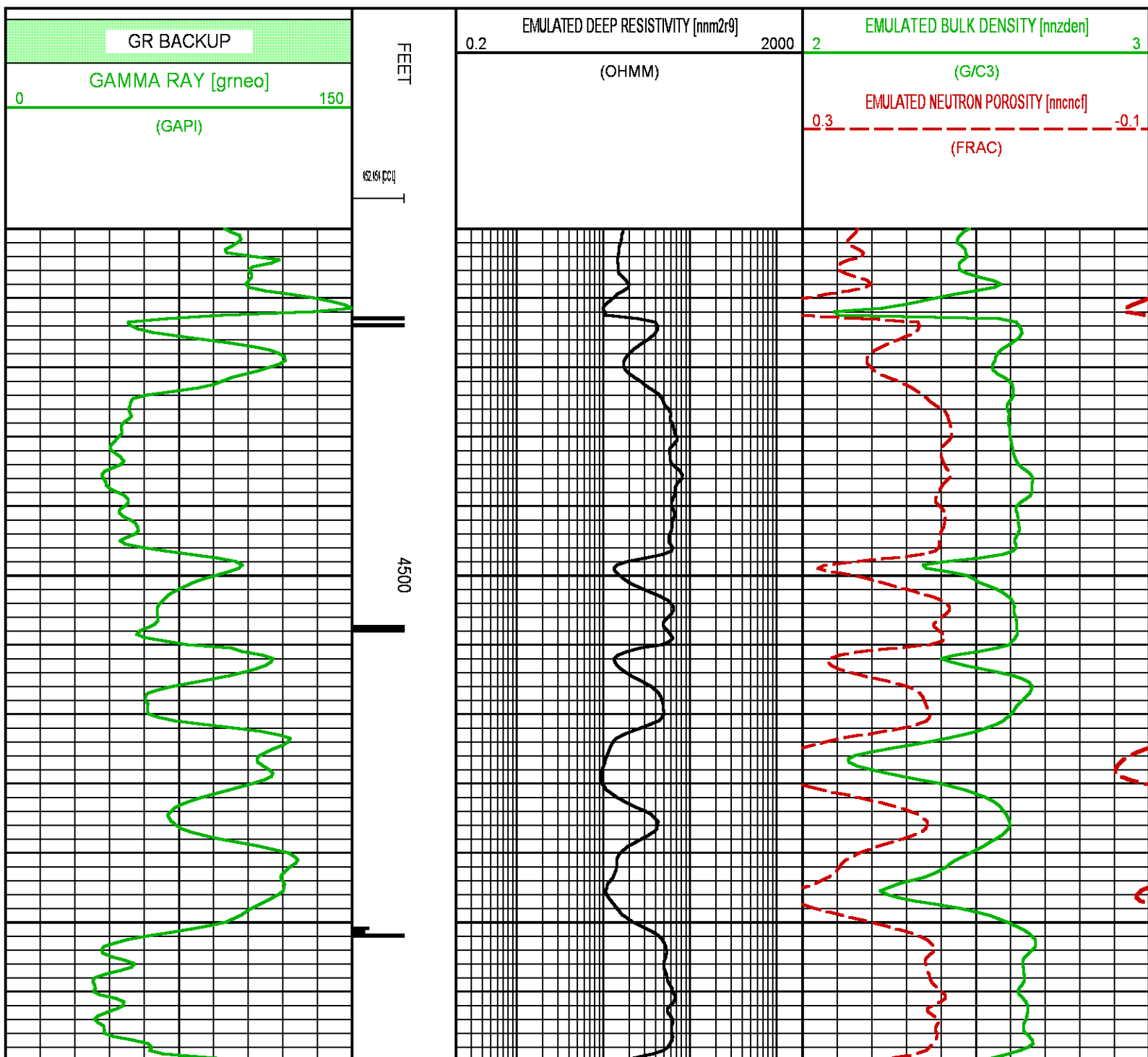
Project : NA
User : kmgseb
Presentation : BHIBZG9YY1:E:\Projects\Processing\NEO\LaramieGunderson2914E\
2NEO_PRESENTATION+GUNDERSON 29-14E_Merged_Set_Final.fvpdf [5"/100' Scale]
Plot Interval : 4450 - 7630 Feet

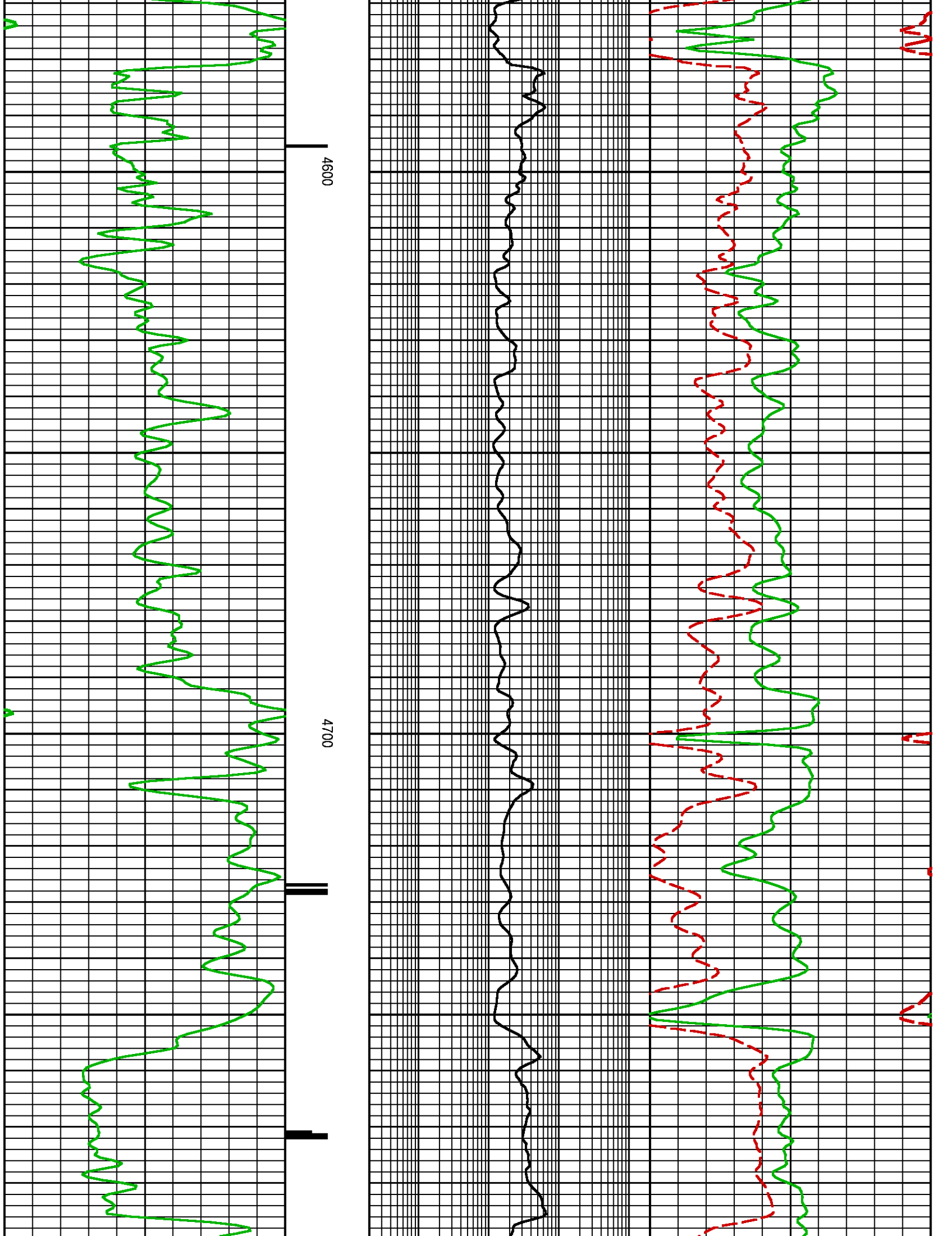
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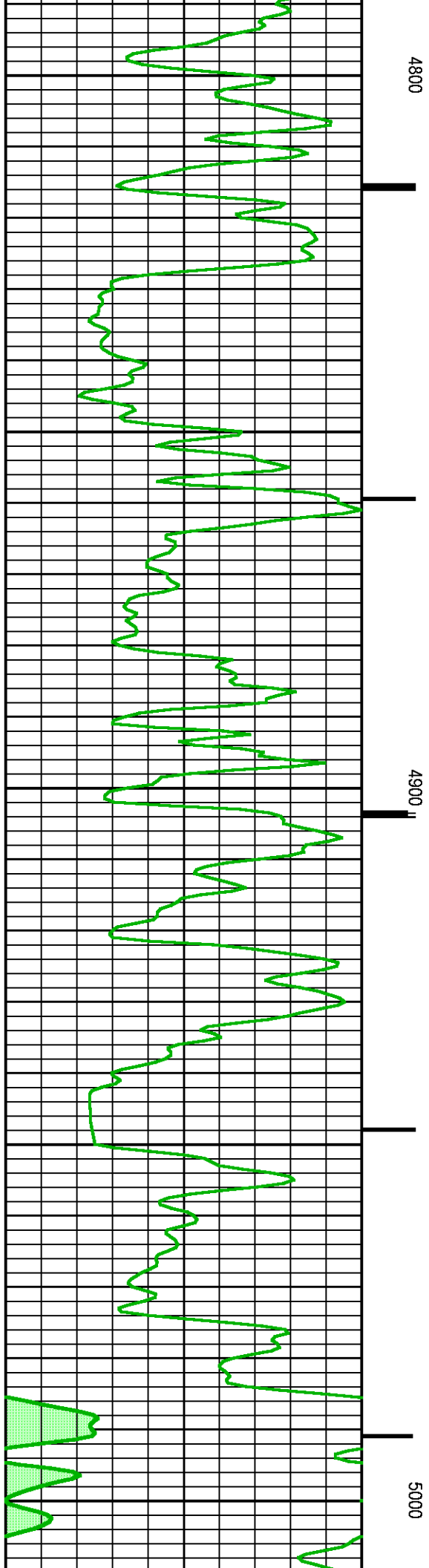
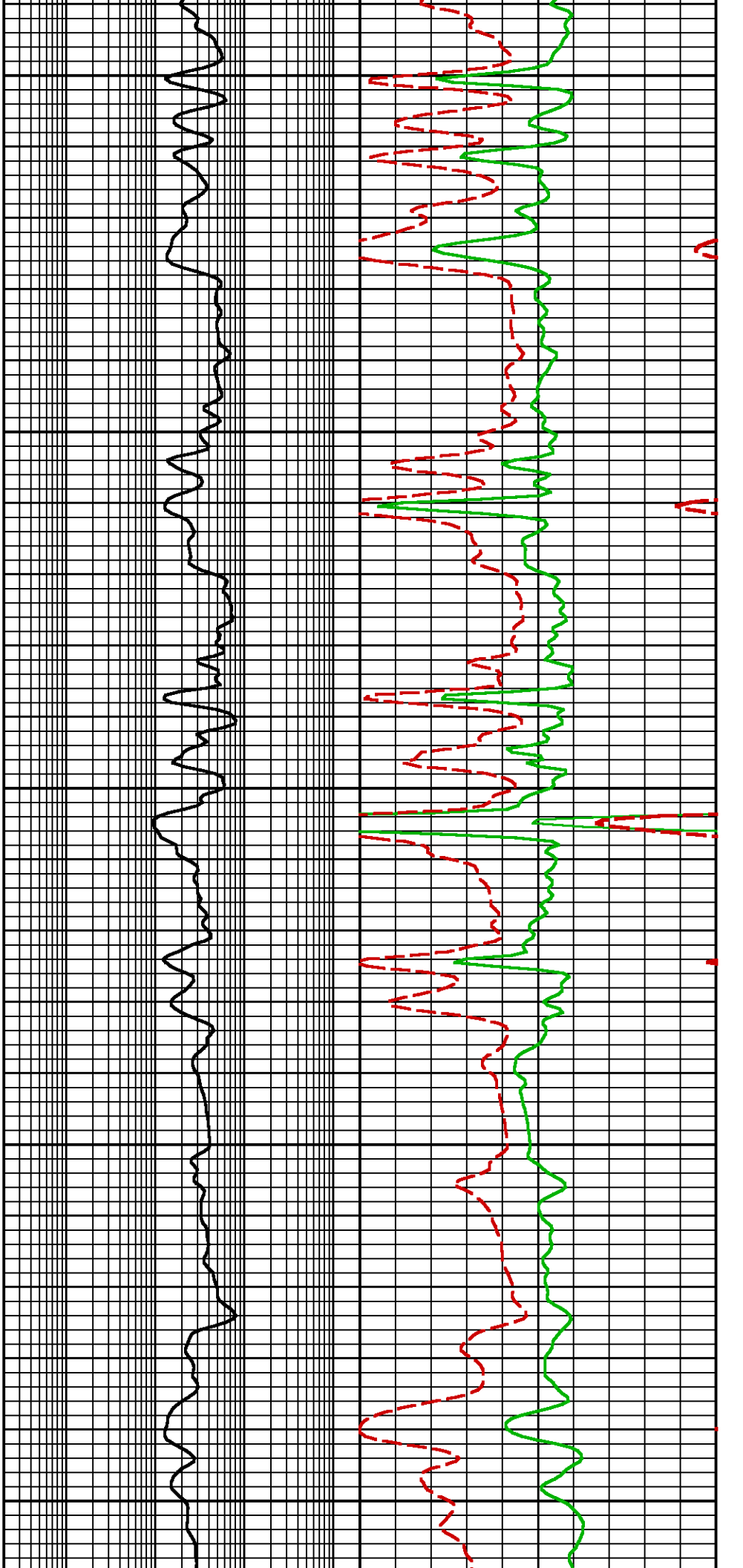
Created On : Aug 4 11:52:59 2015
Company : LARAMIE ENERGY
Well : GUNDERSON 29-14E
Field : VEGA
File Interval : 6.5 - 7674 Feet
OCT : NA

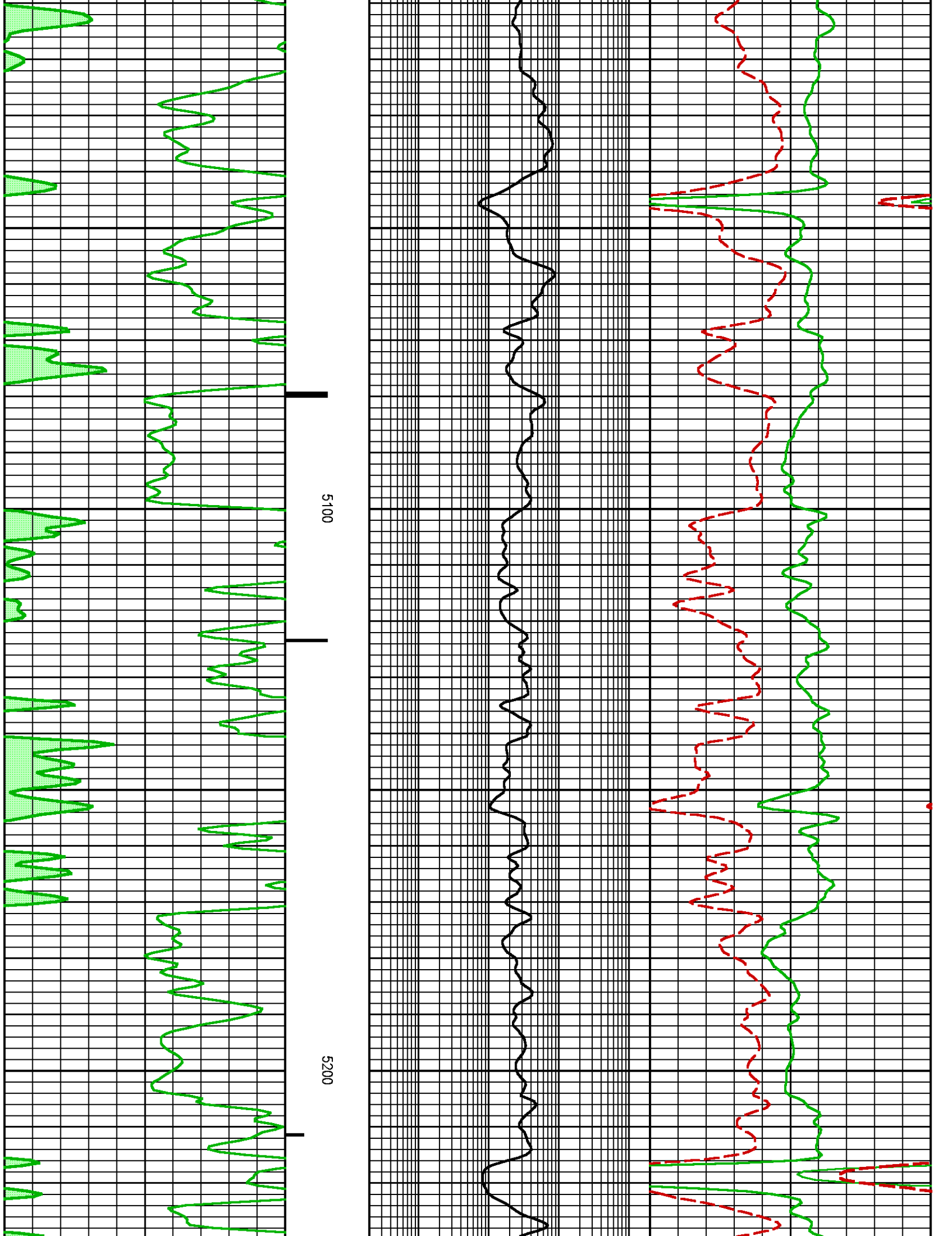
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LARAMIE GUNDERSON 29-14E CBL.xtf

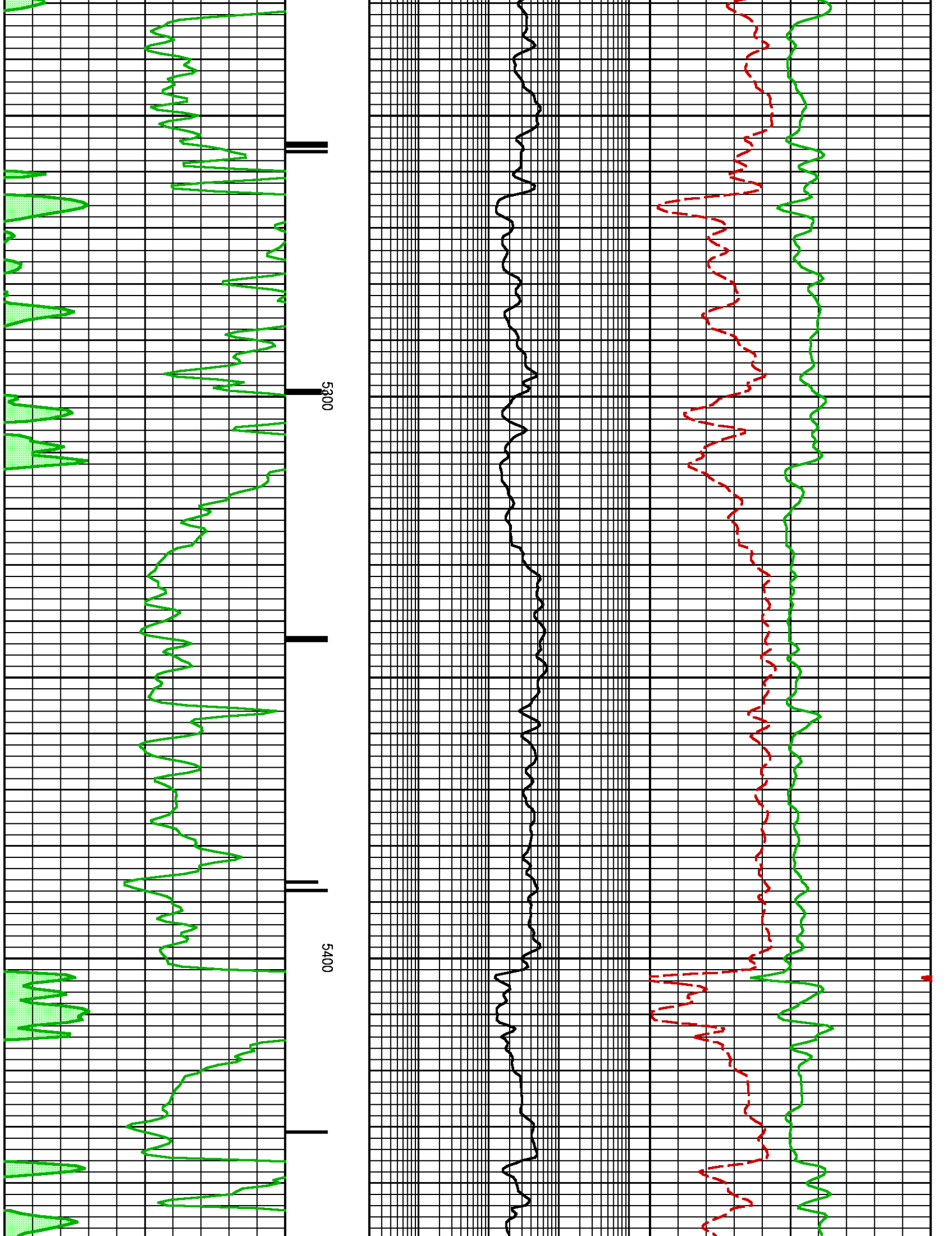
Created On : Aug 4 11:52:59 2015
Company : LARAMIE ENERGY
Well : GUNDERSON 29-14E
Field : VEGA
File Interval : 14 - 7674 Feet
OCT : NA

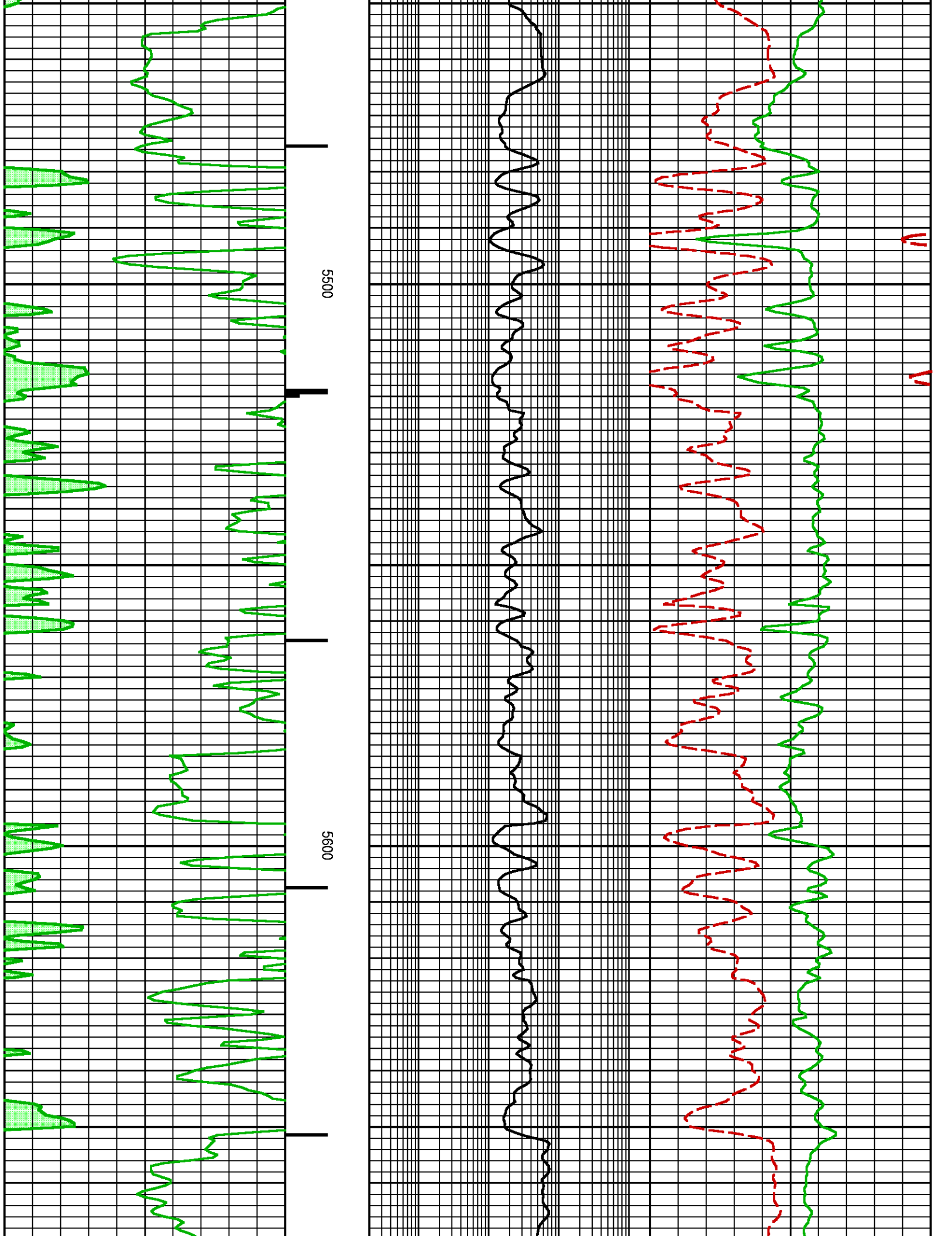


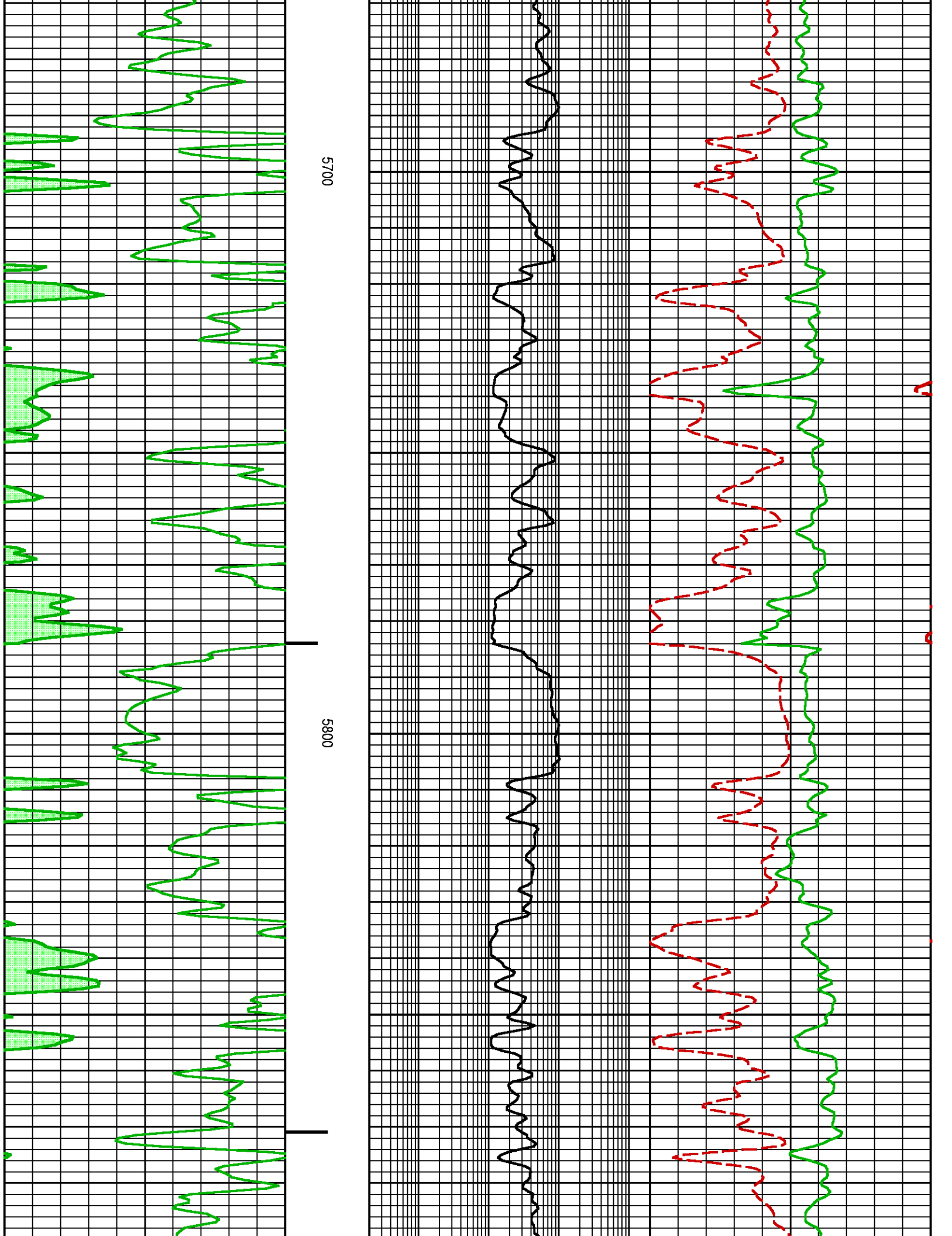


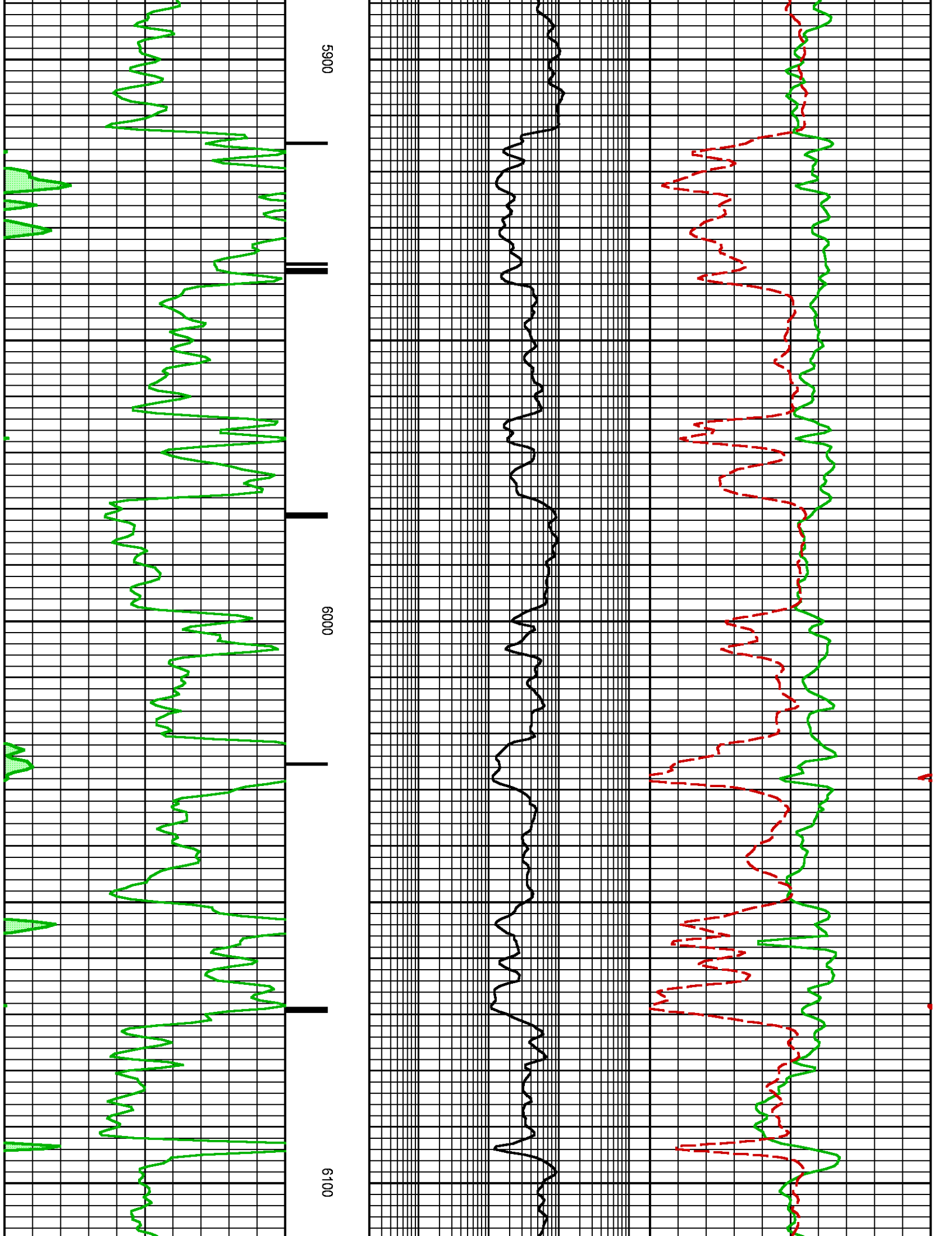


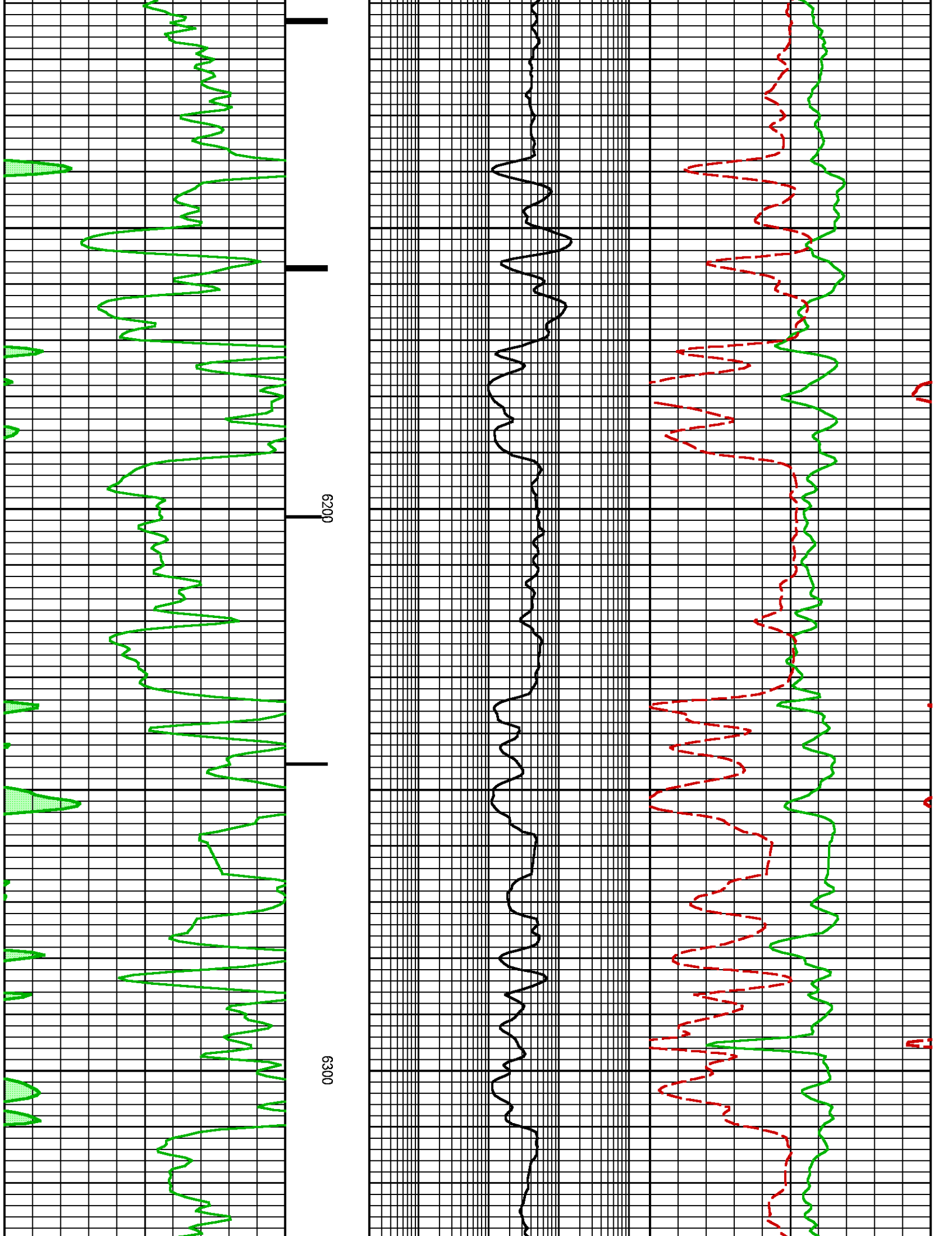


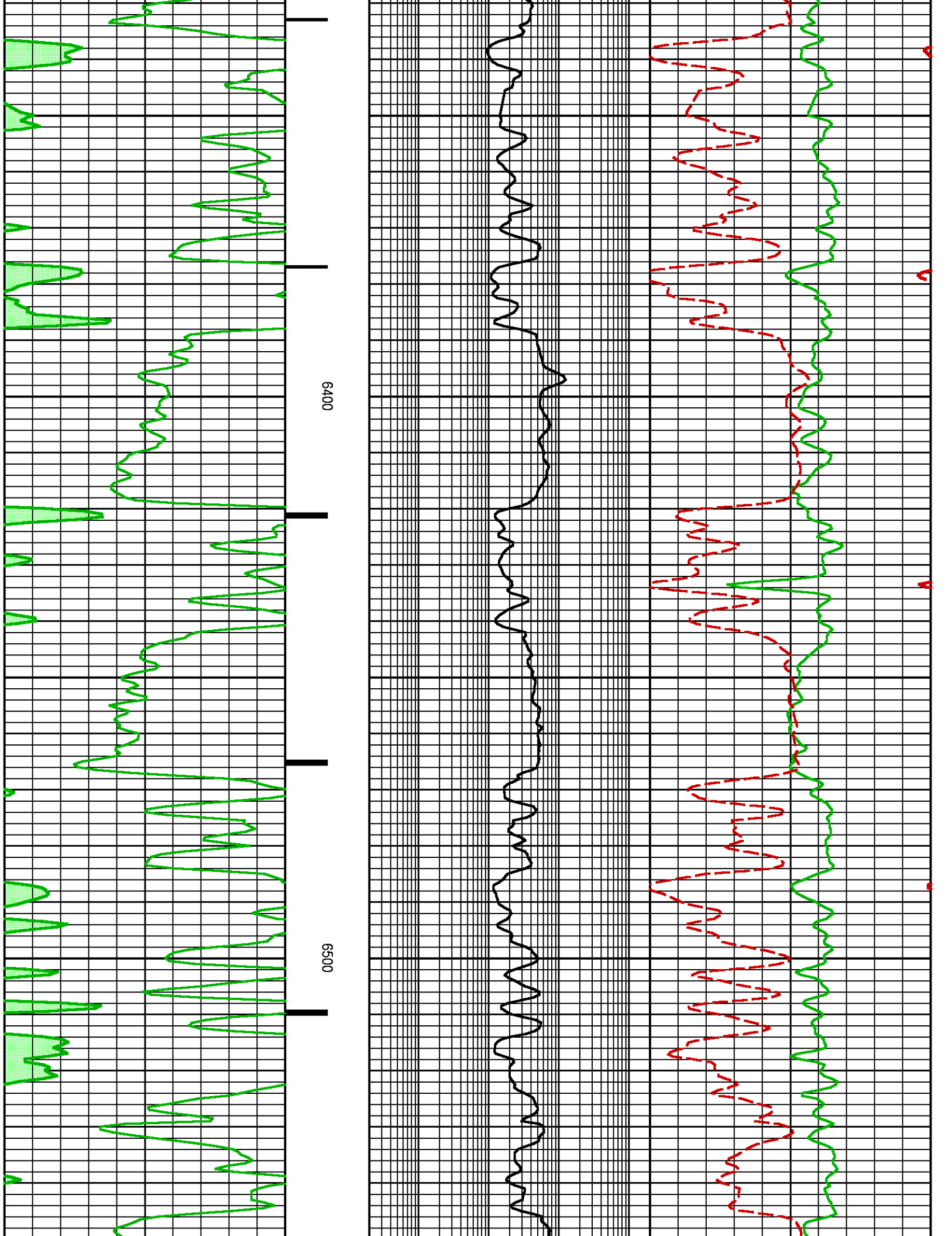


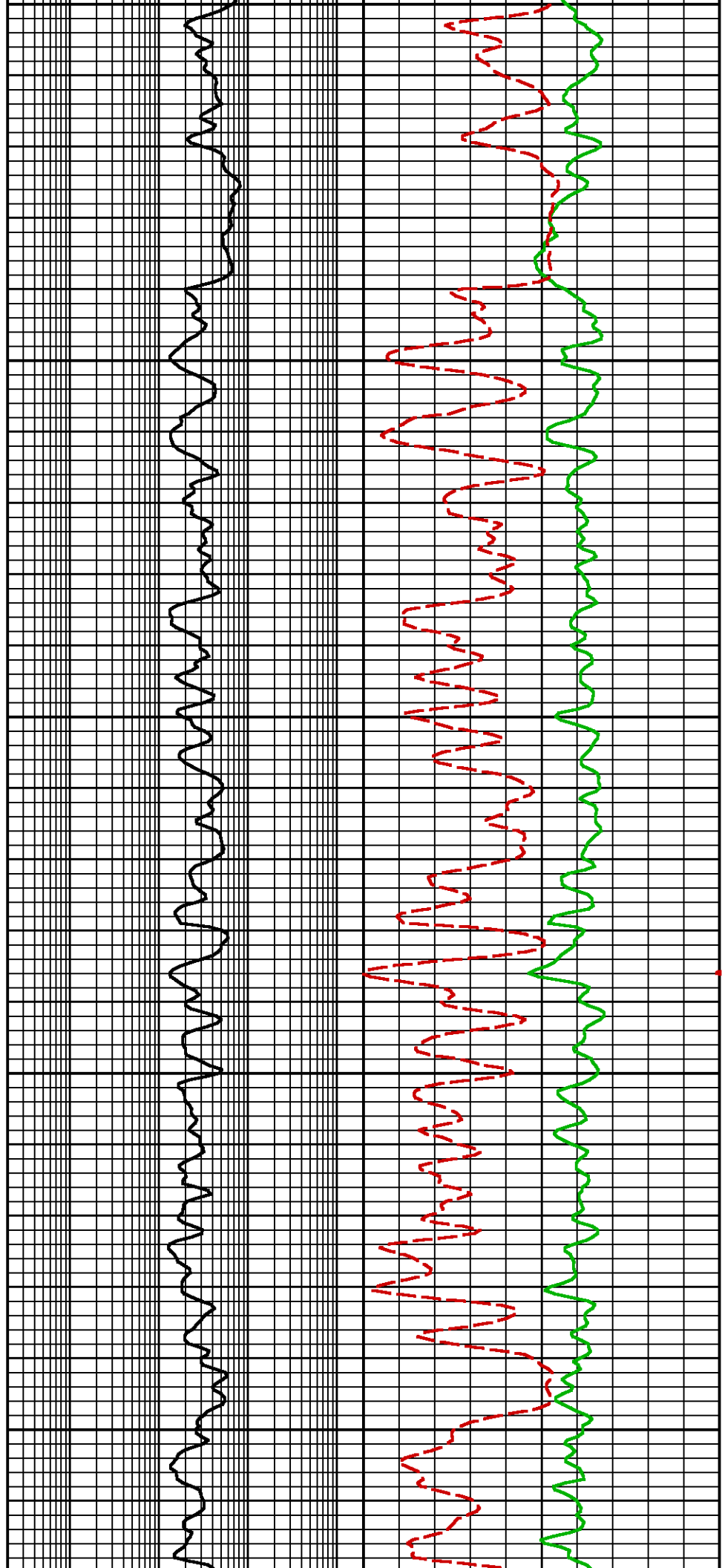
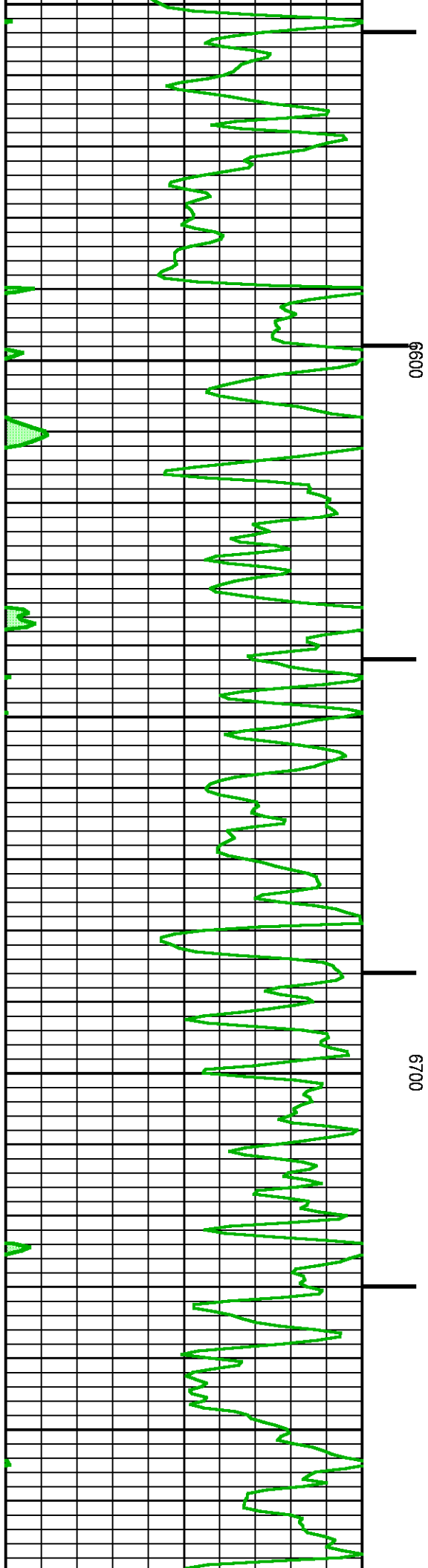


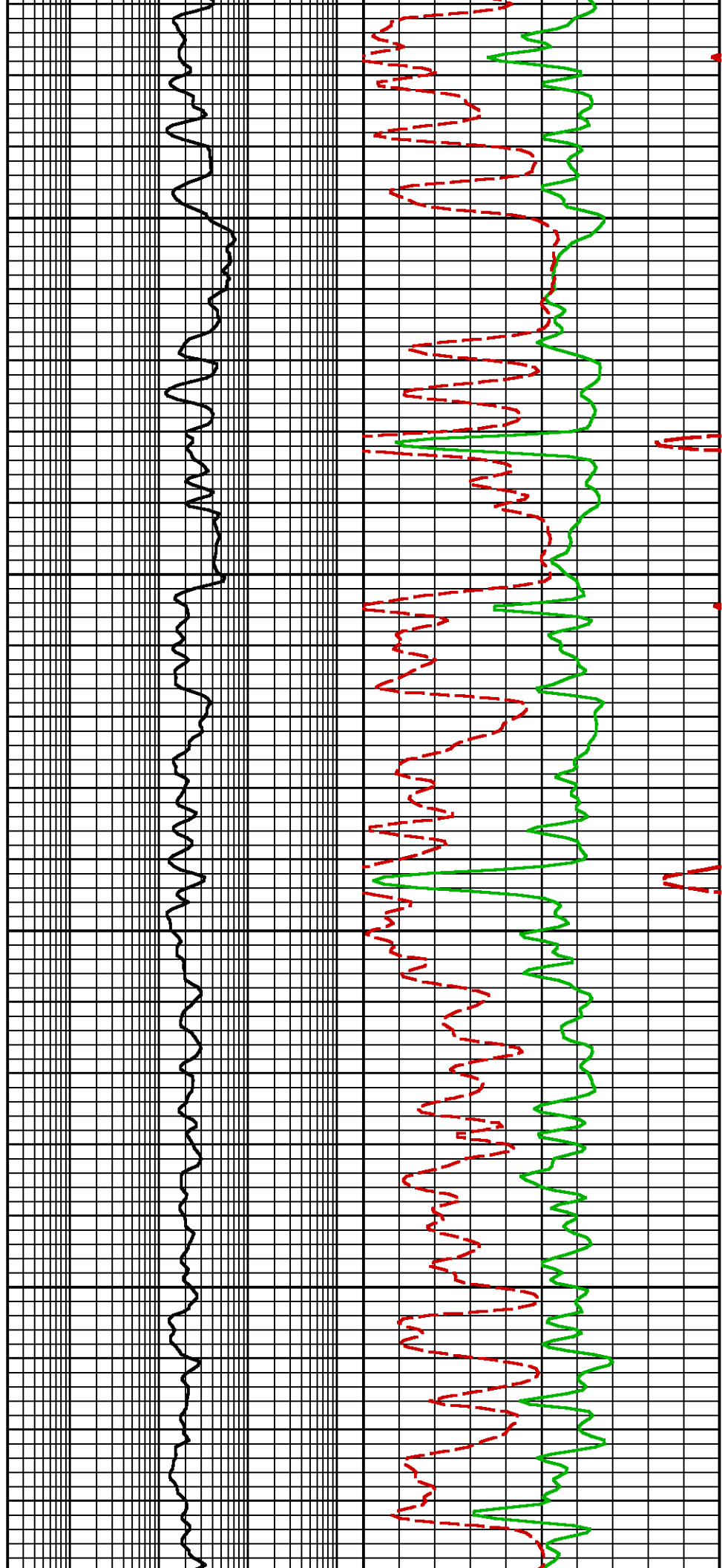
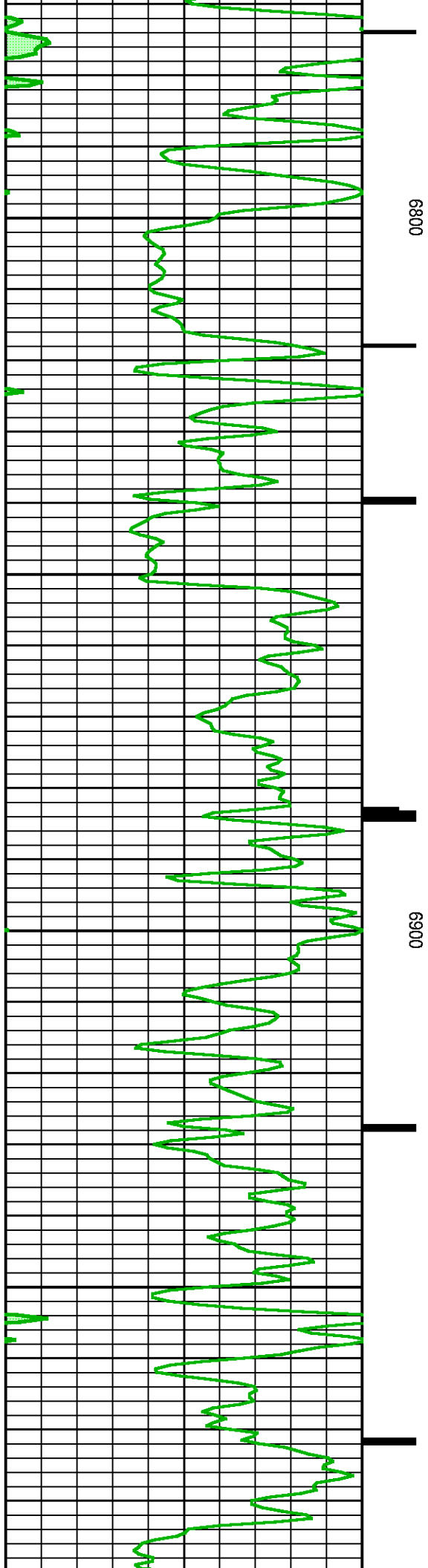


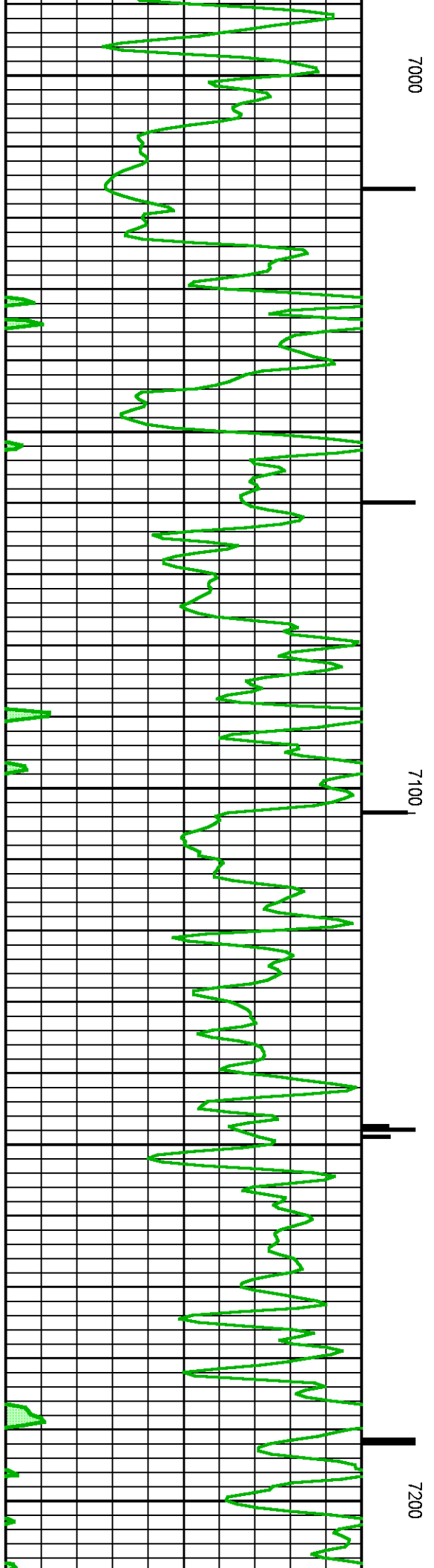
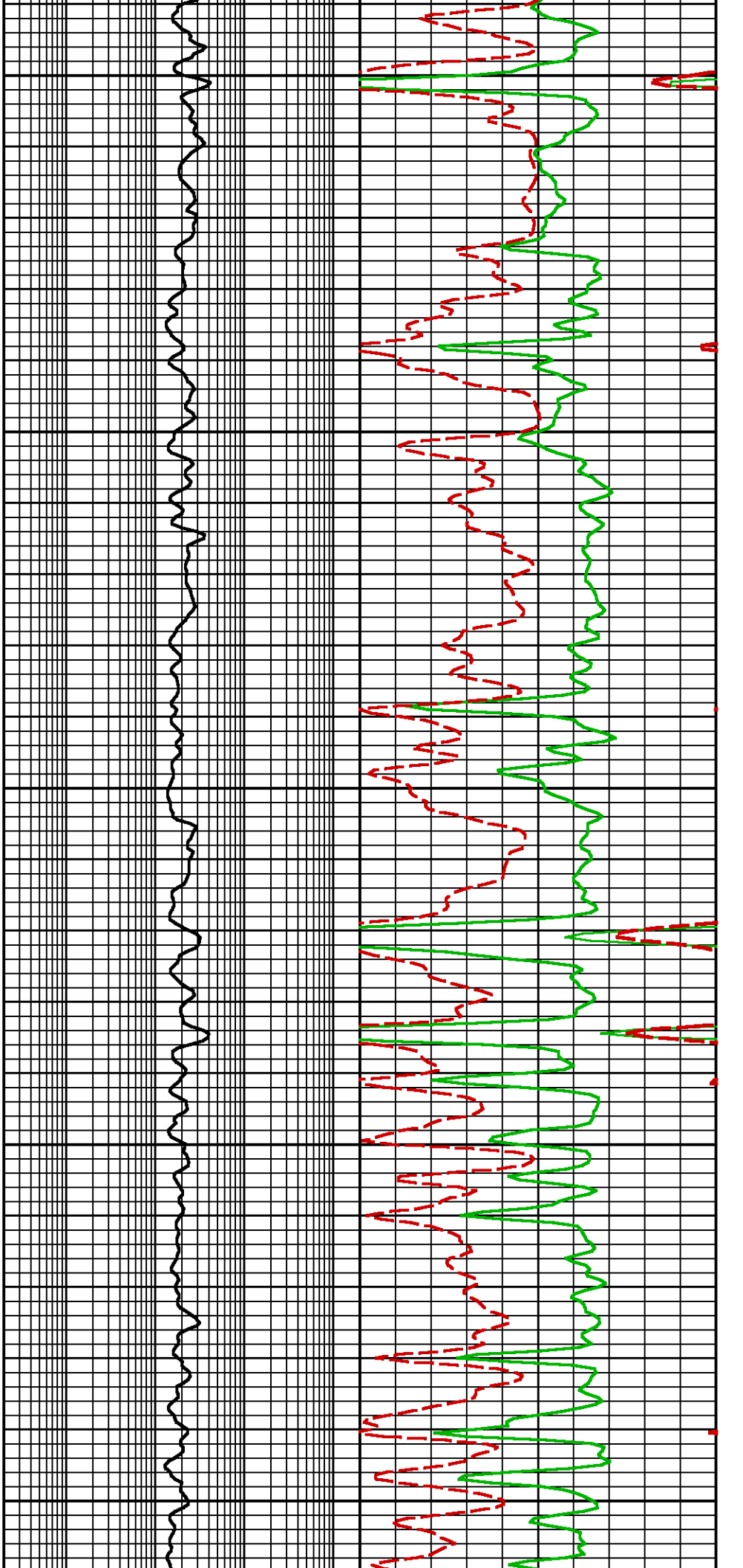


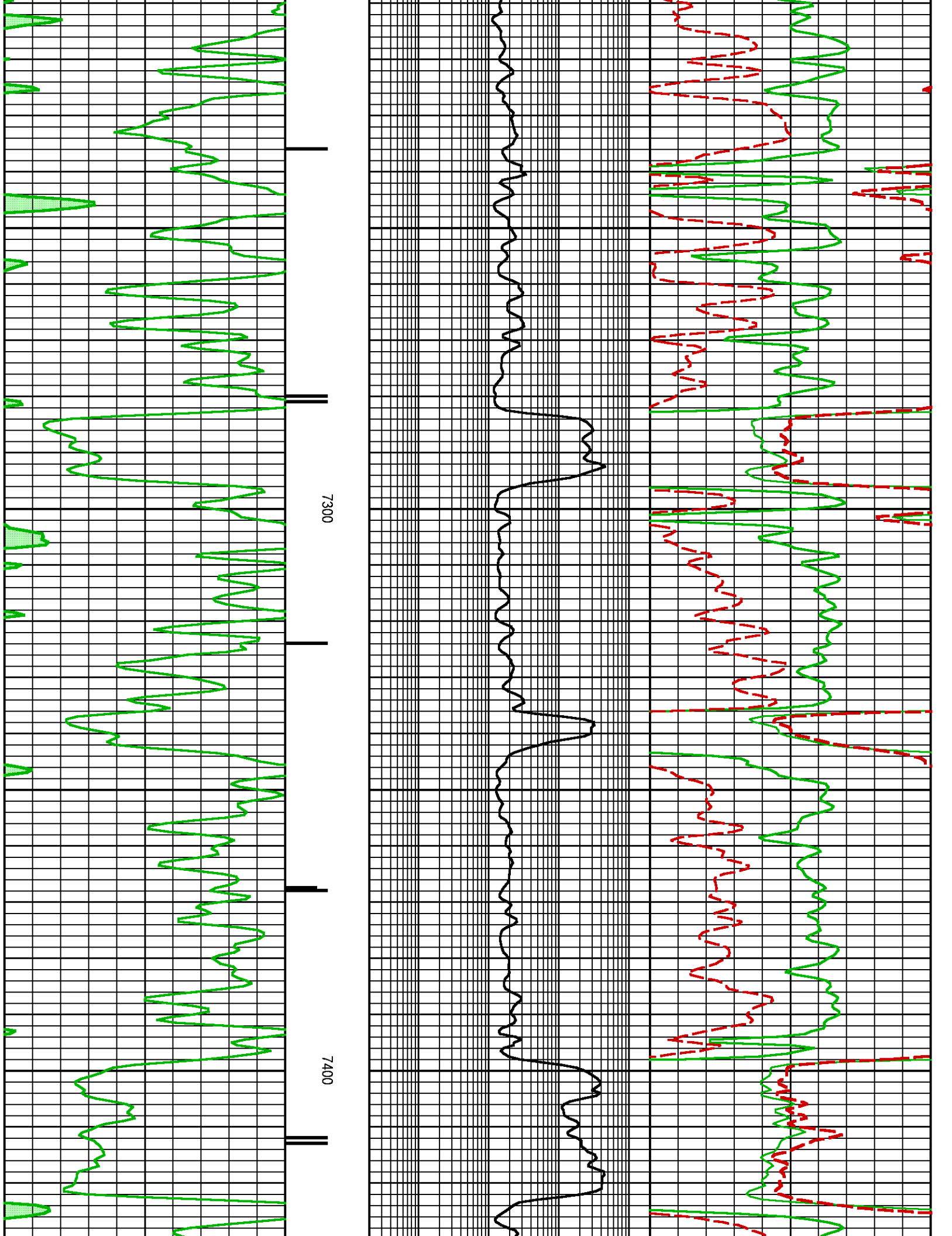


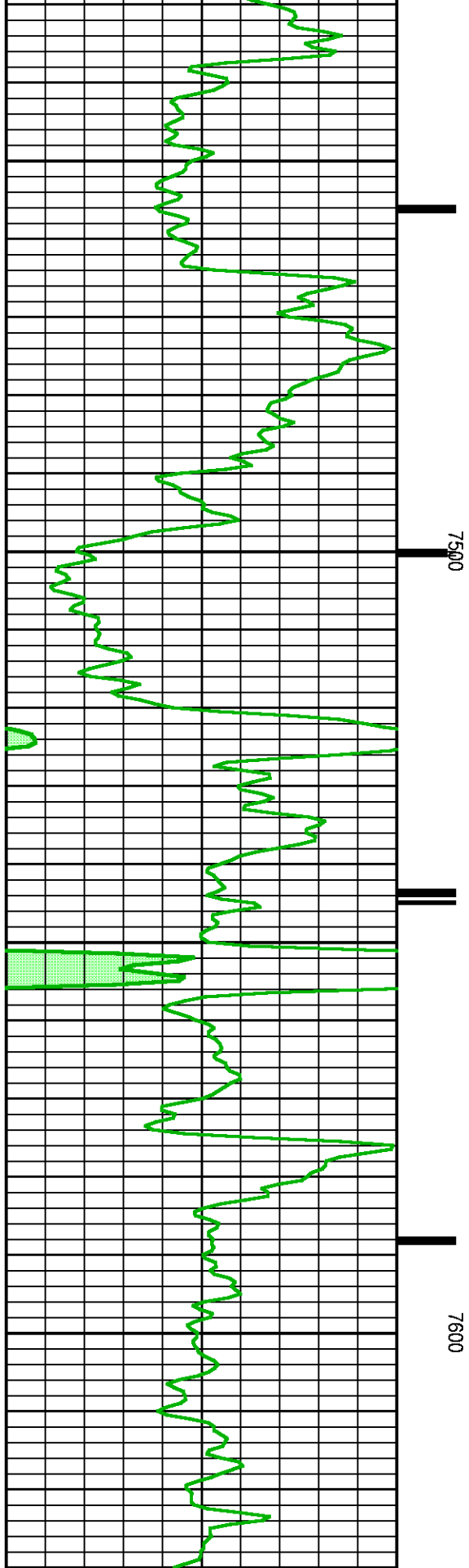












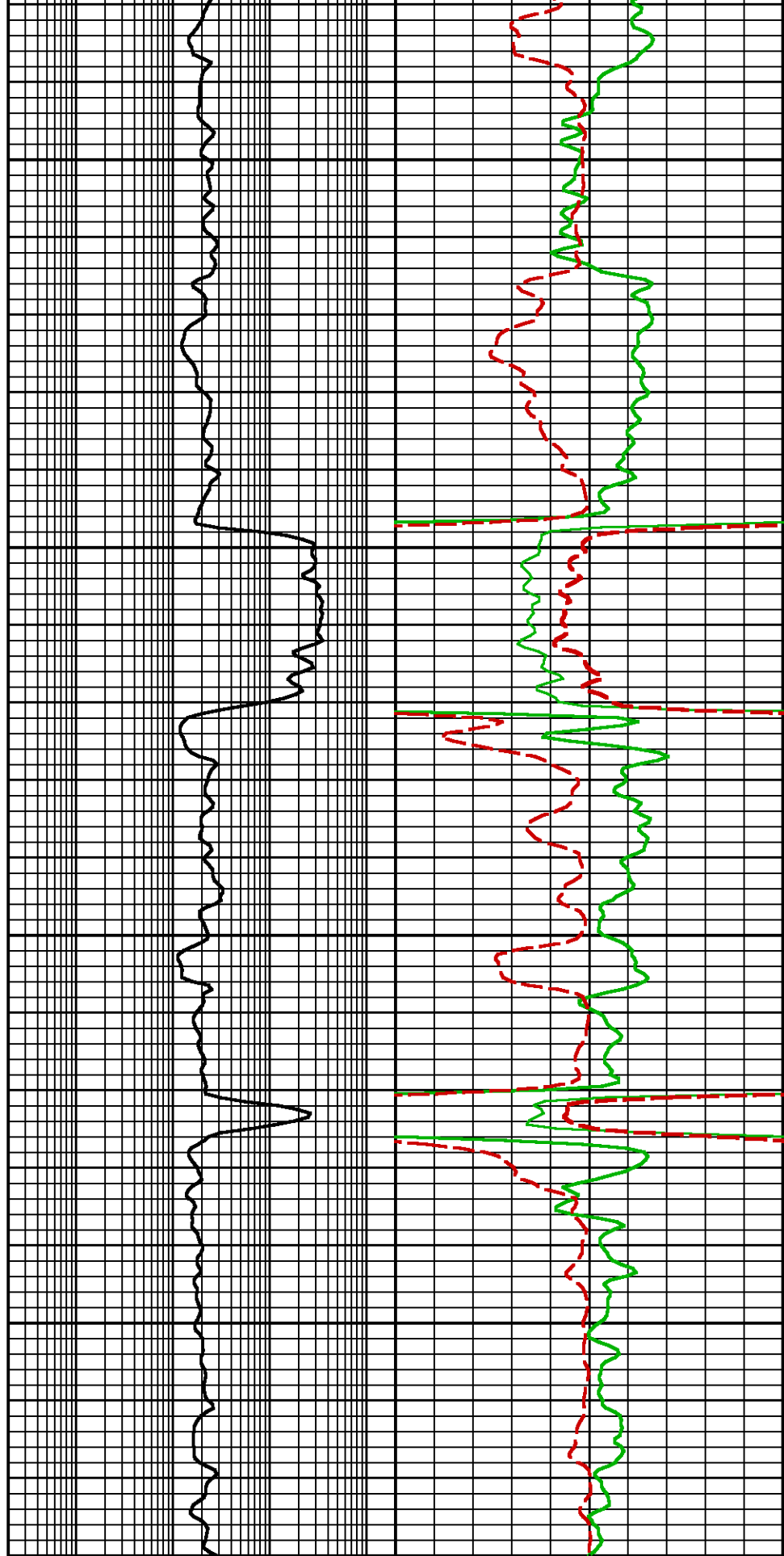
GR BACKUP

GAMMA RAY [grneo]

(GAPI)

0 150

FEET



EMULATED DEEP RESISTIVITY [nm2r9]

(OHMM)

0.2 2000

EMULATED BULK DENSITY [nnzden]

(G/C3)

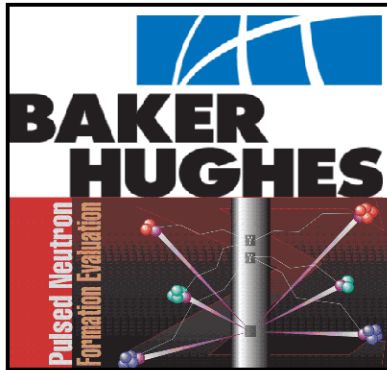
2 3

EMULATED NEUTRON POROSITY [nnncnf]

0.3 -0.1

452/64 (PCU)

(FRAC)

	COMPANY <u>LARAMIE ENERGY</u>		FILE NO: <u>20063-01</u>
	WELL <u>GUNDERSON 29-14E</u>		API NO: <u>05077102300000</u>
	FIELD <u>VEGA</u>		
	COUNTY <u>MESA</u>	STATE <u>COLORADO</u>	
LOCATION: <u>SEE REMARKS SECTION</u>		ELEVATIONS: KB <u>7553 FT</u> DF GL <u>7531 FT</u>	
SEC <u>29</u> TWP <u>9S</u> RGE <u>93W</u>		DATE <u>4-AUG-2015</u>	