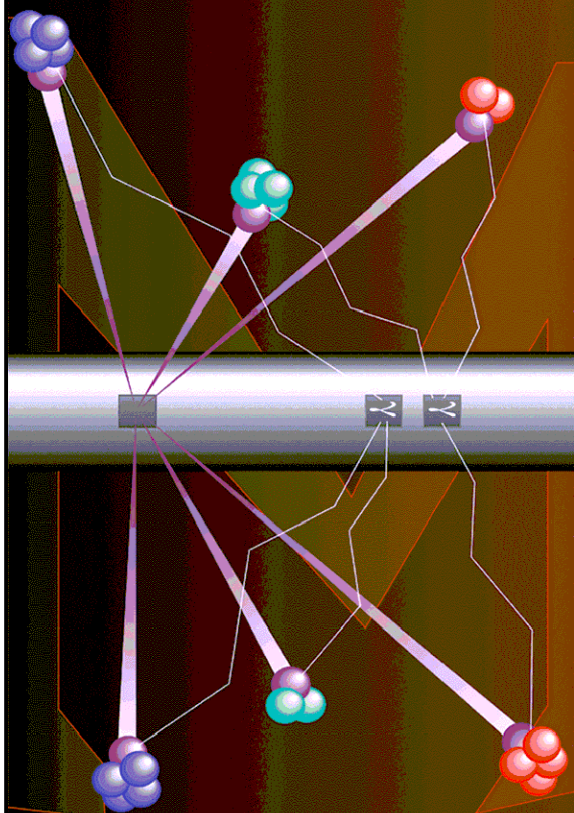


Pulsed Neutron Formation Evaluation



**BAKER
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NEO Neutron Emulated Openhole

COMPANY LARAMIE ENERGY LLC

WELL BRUTON FEDERAL 31-01E

FIELD VEGA

COUNTY MESA STATE COLORADO

LOCATION:

SEE REMARKS SECTION

SEC 30 TWP 9S RGE 93W

ELEVATIONS:

KB 7673.0 FT DF 30 FT GL 7643.0 FT

DATE 14-APR-2018 ECC CALGARY GEOSCIENCE

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>17-APR-2018</u> |
| FIELD DATA | LOCATION: <u>GRAND JCT.</u> | ENGINEER: <u>M. BAUKA/US135626</u> | DATE: <u>14-APR-2018</u> |
| FROM | TO | | |
| <u>2709 FT</u> | <u>8237 FT</u> | | |

REMARKS

*****TRAINING WELL*****

LOCATION:
SHL: 2610' FSL & 1839' FEL
SHL: 132' FSL & 1334' FEL

TRAINING WELL: BRUTON 30-14E

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

NEO RESULTS FOR BRUTON FEDERAL 31-01E (G-SAND)

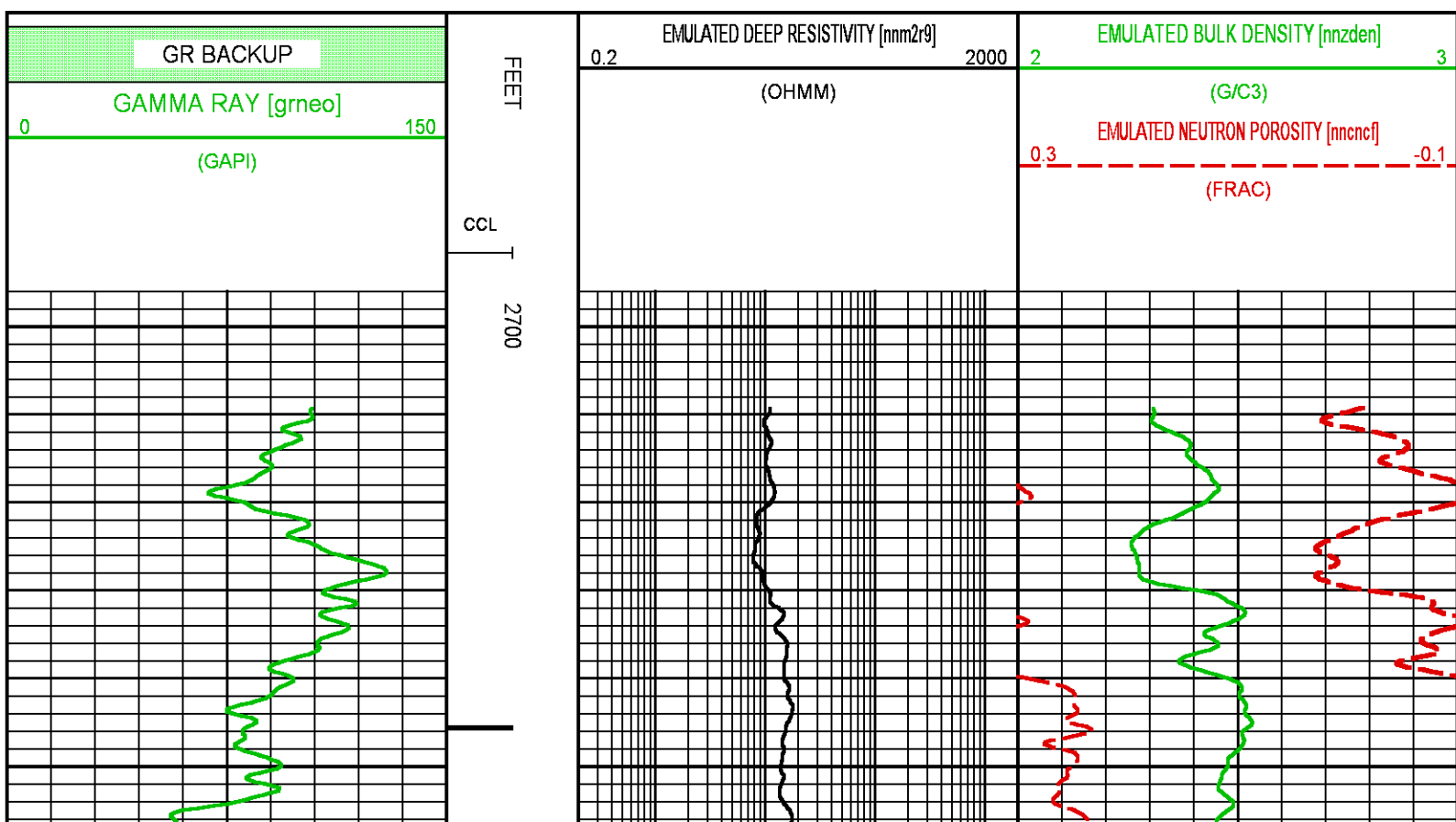
ECLIPS ECPLLOT from ECLIPS 7.0 WFM 6.0.7905.1 Wed 08/23/2017 09:02:35.01

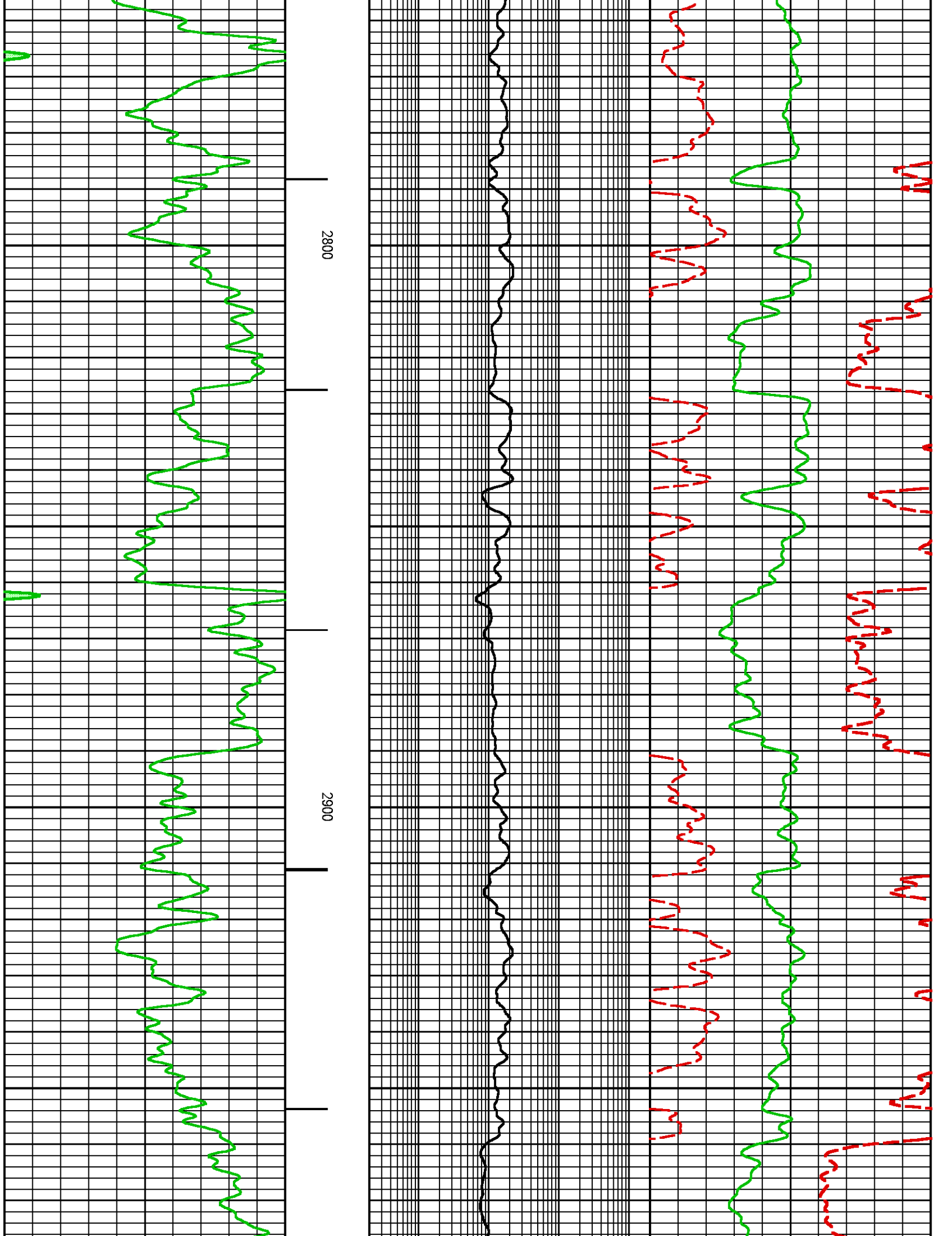
Plotted: Tue Apr 17 11:44:06 2018

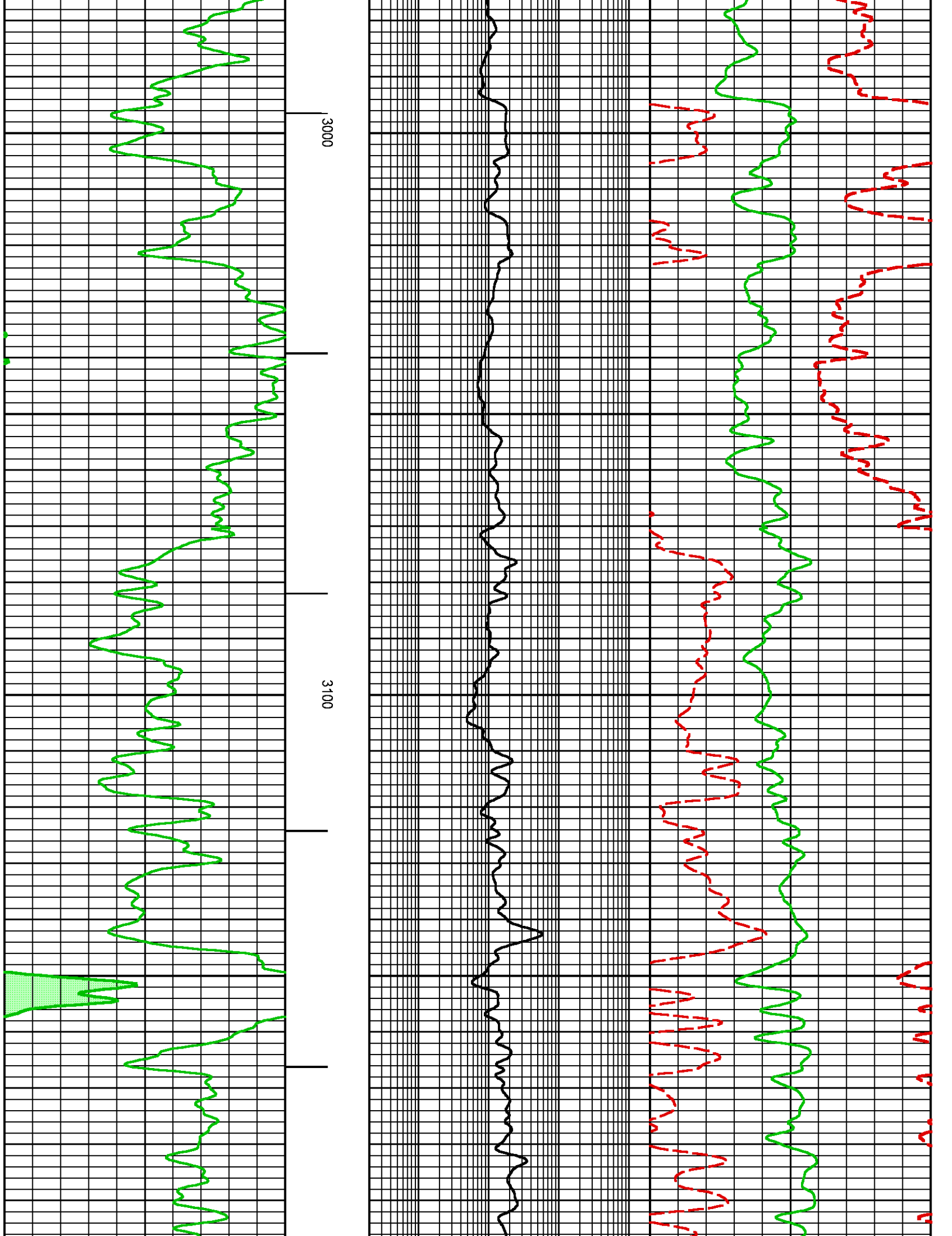
CURVE MEASURE POINT OFFSET

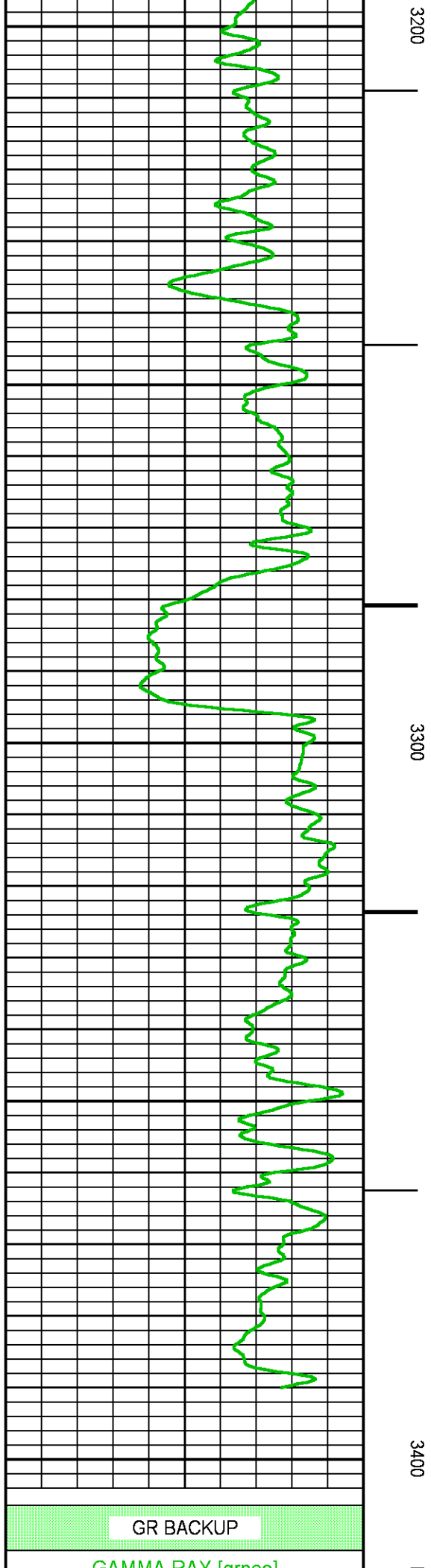
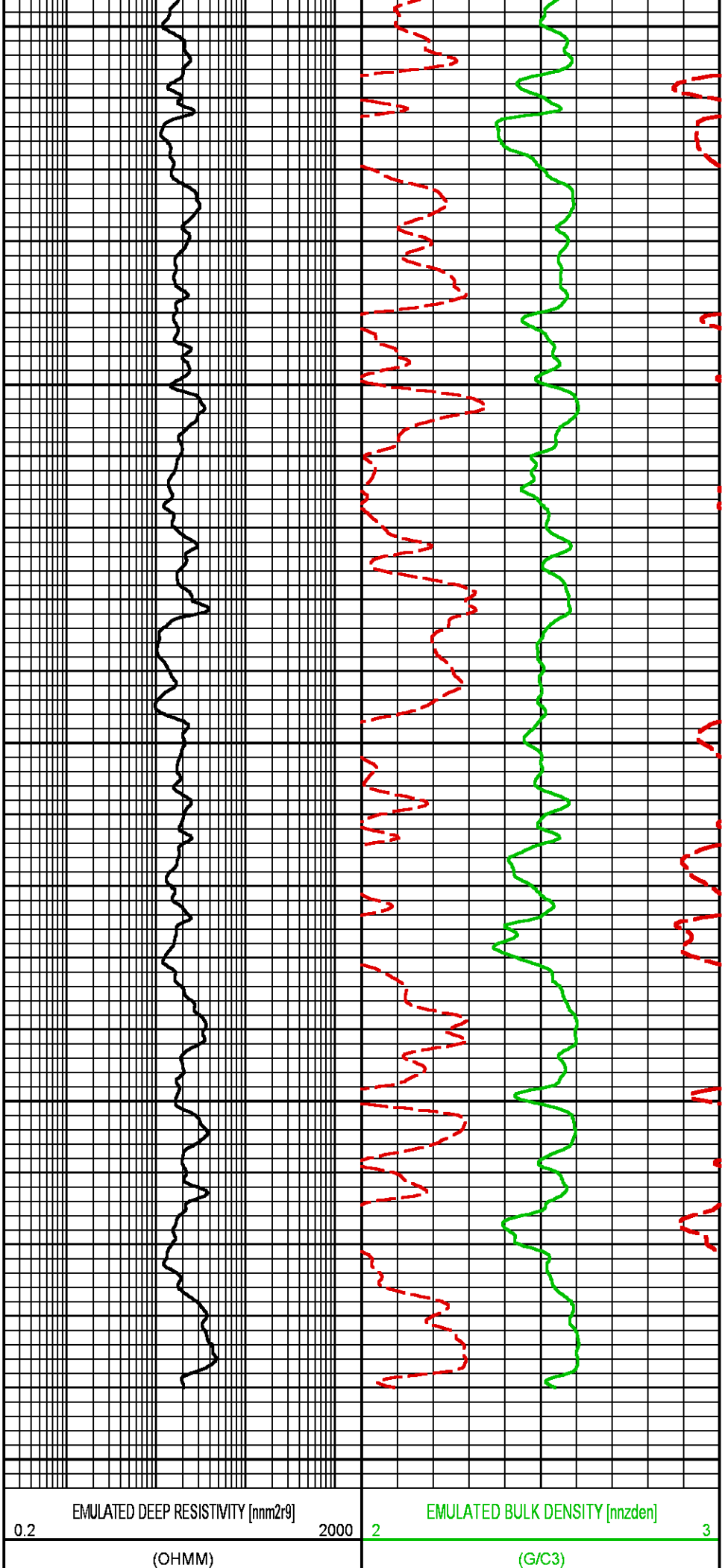
| CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) |
|-------|-------------|--------|-------------|--------|-------------|-------|-------------|
| CCL | 0.00 | NNCNC | 0.00 | NNZDEN | 0.00 | | |
| GRNEO | 0.00 | NNM2R9 | 0.00 | | | | |

Project : NA
 User : kotoale
 Presentation : BHI1F65XZ1:D:\Ape_Projects\Laramie_Bruton_30_01E_NEO\NEO_PRESENTATION_LARAMIE_G-Sand.pdf [5"/100' Scale]
 Plot Interval : 2697 - 3403 Feet
 Data File 1 : F1 : BHI1F65XZ1:D:\Ape_Projects\Laramie_Bruton_30_01E_NEO\Merged_Set_Final.xtf
 Created On : N/A
 Company : LARAMIE ENERGY LLC
 Well : BRUTON FEDERAL 31-01E
 Field : VEGA
 File Interval : 2709.25 - 8237.25 Feet
 OCT : NA





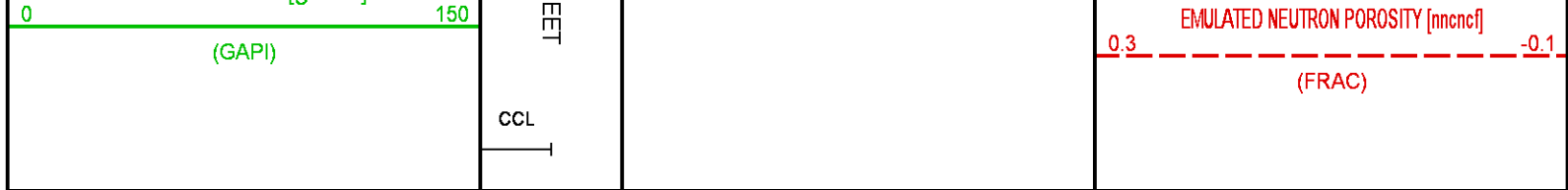




GR BACKUP

GAMMA RAY [arneo]

F



NEO RESULTS FOR BRUTON FEDERAL 31-01E (MAIN)

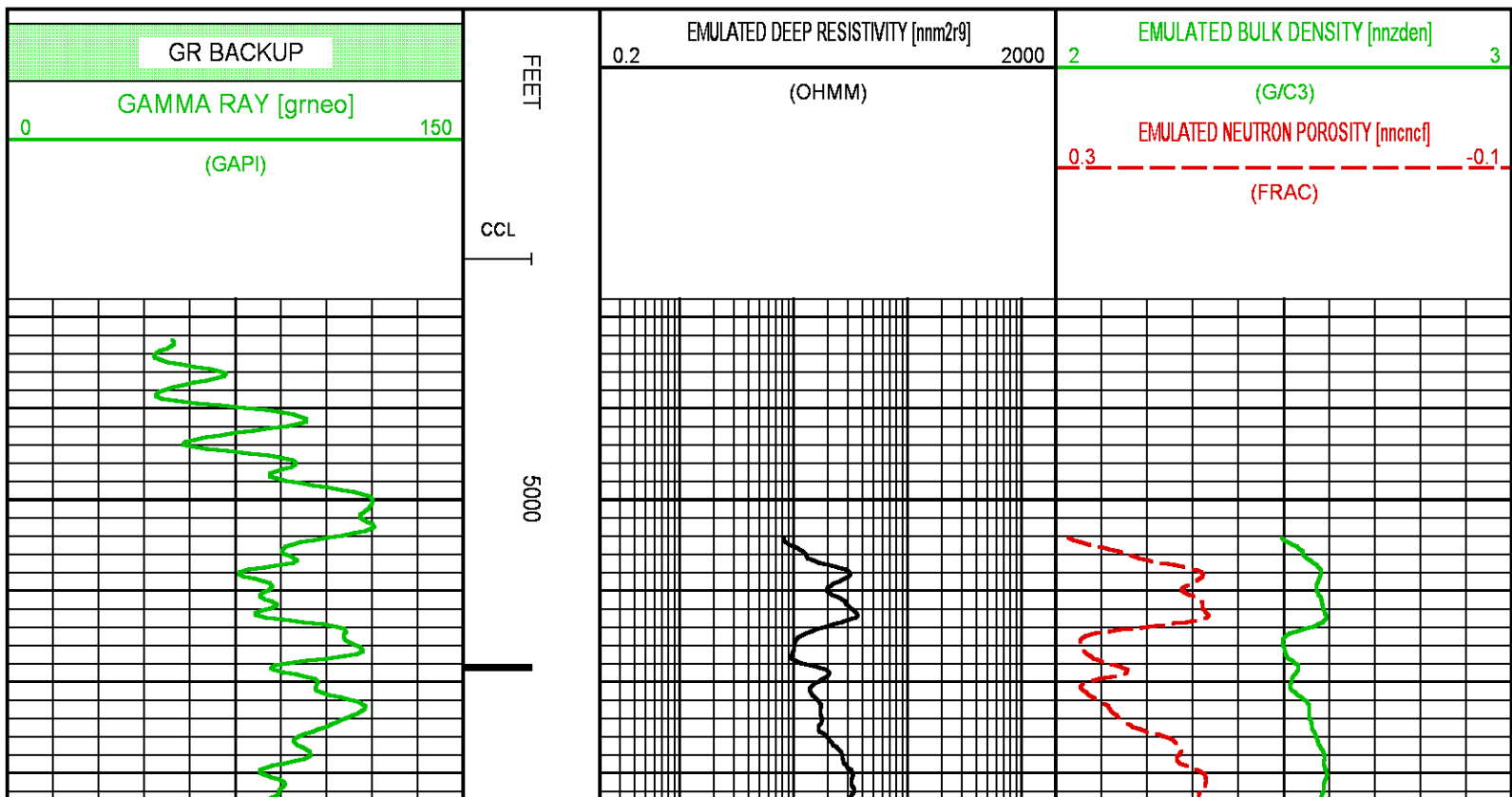
ECLIPS ECPLLOT from ECLIPS 7.0 WFM 6.0.7905.1 Wed 08/23/2017 09:02:35.01

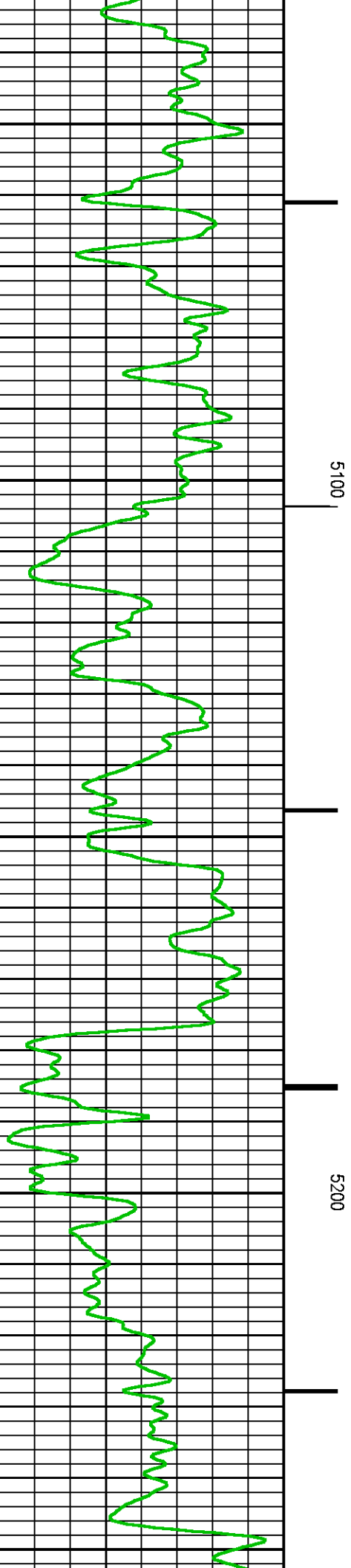
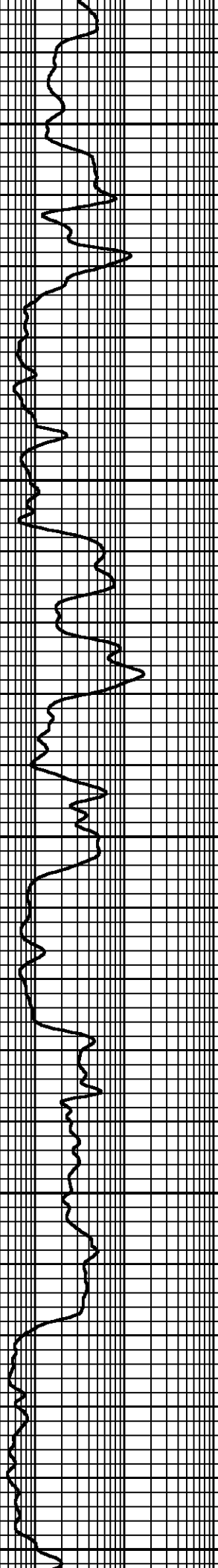
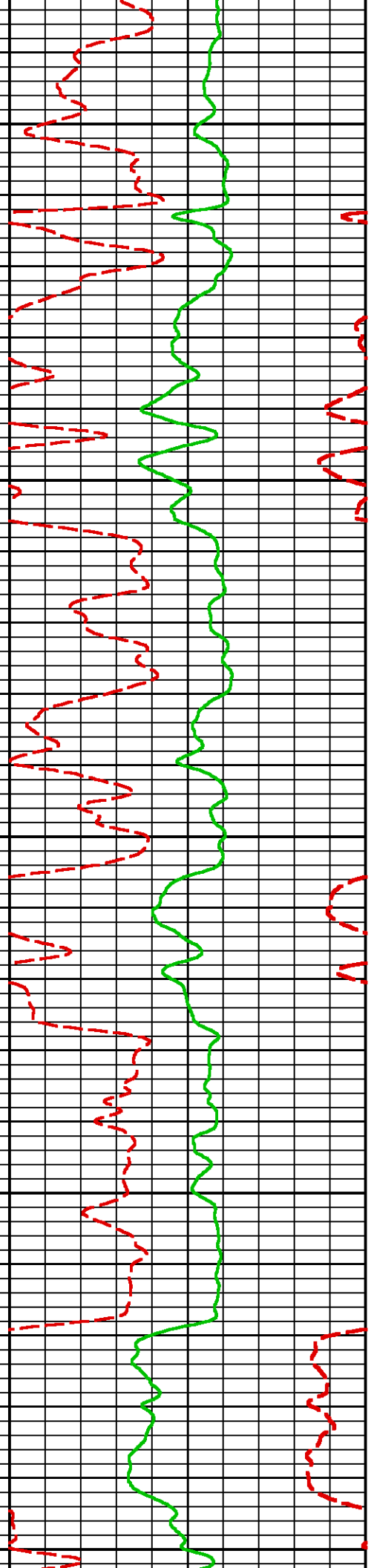
Plotted: Tue Apr 17 11:51:41 2018

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 | | | | |

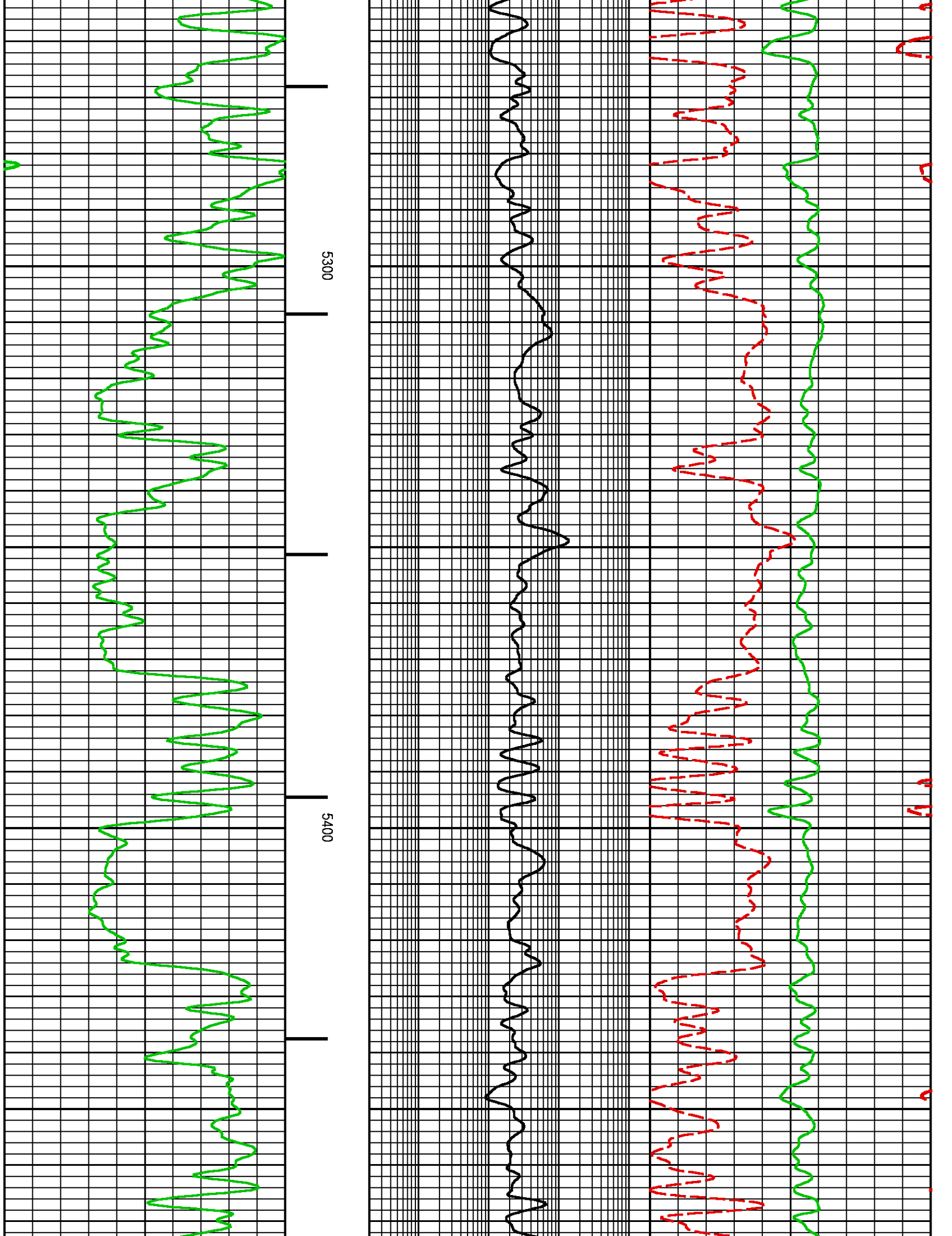
Project : NA
User : kotoale
Presentation : BHI1F65XZ1:D:\Ape_Projects\Laramie Bruton 30_01E NEO\ NEO_PRESENTATION_LARAMIE_MAIN.pdf [5"/100' Scale]
Plot Interval : 4978 - 8240 Feet
Data File 1 : F1 : BHI1F65XZ1:D:\Ape_Projects\Laramie Bruton 30_01E NEO\Merged_Set_Final.xtf
Created On : N/A
Company : LARAMIE ENERGY LLC
Well : BRUTON FEDERAL 31-01E
Field : VEGA
File Interval : 2709.25 - 8237.25 Feet
OCT : NA

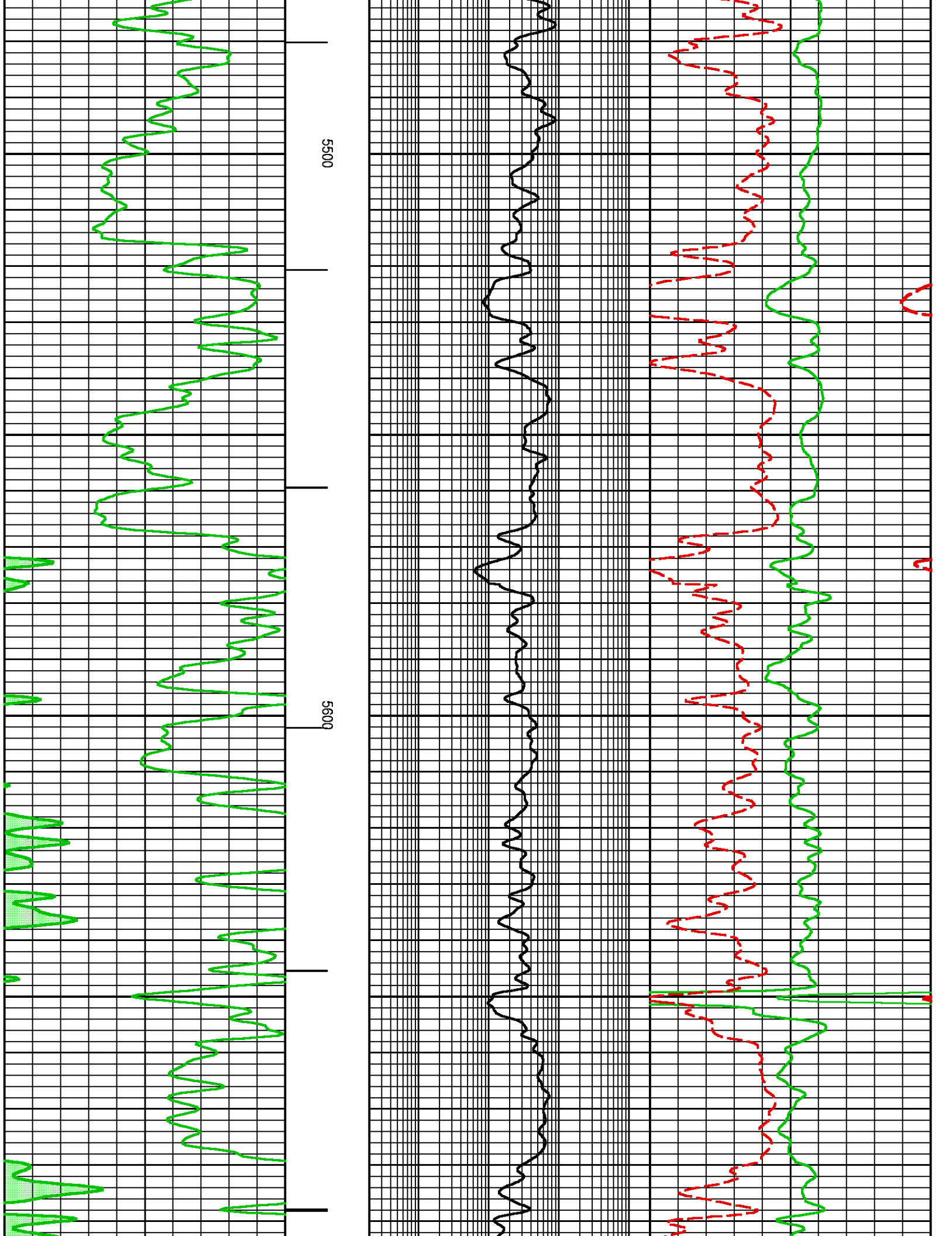


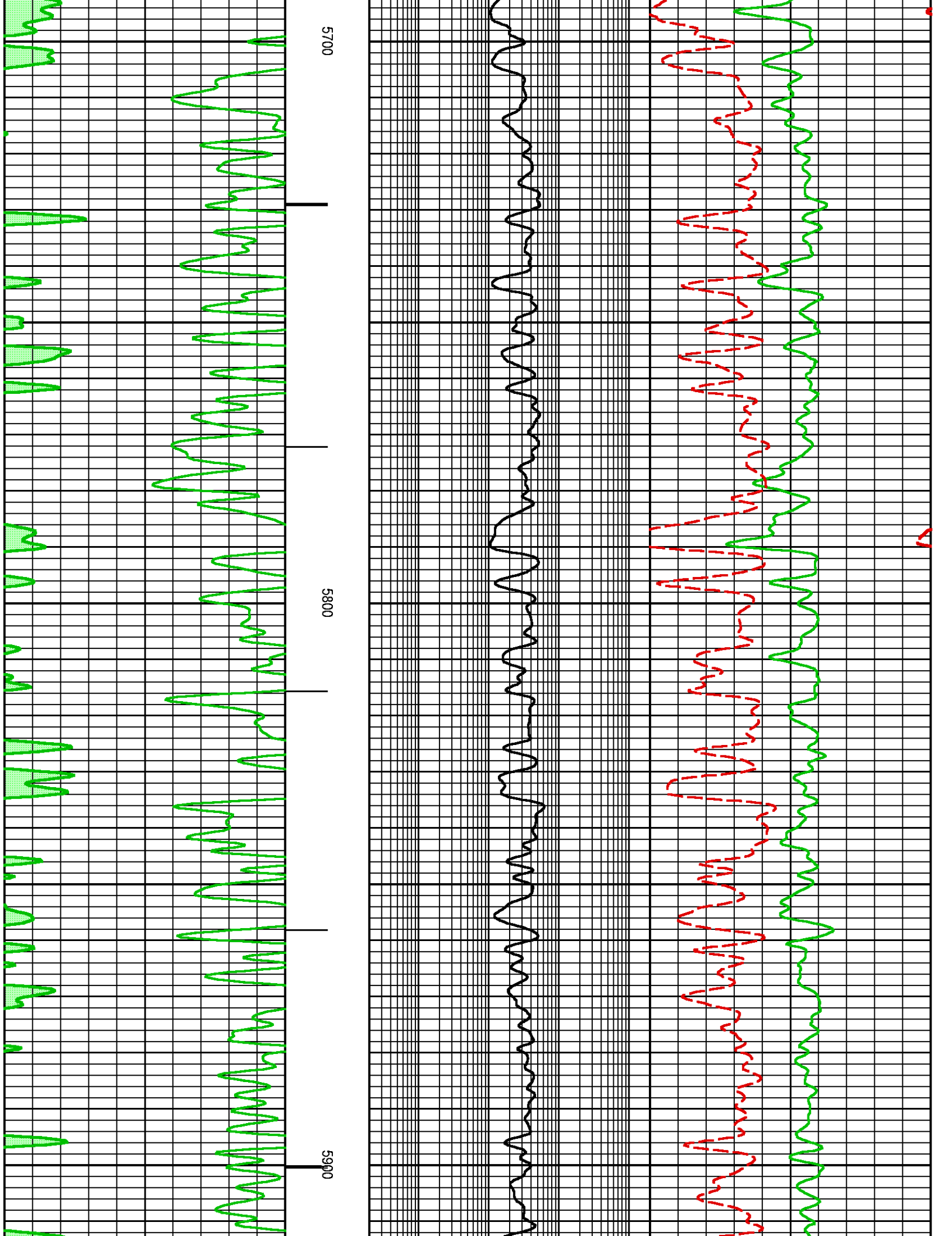


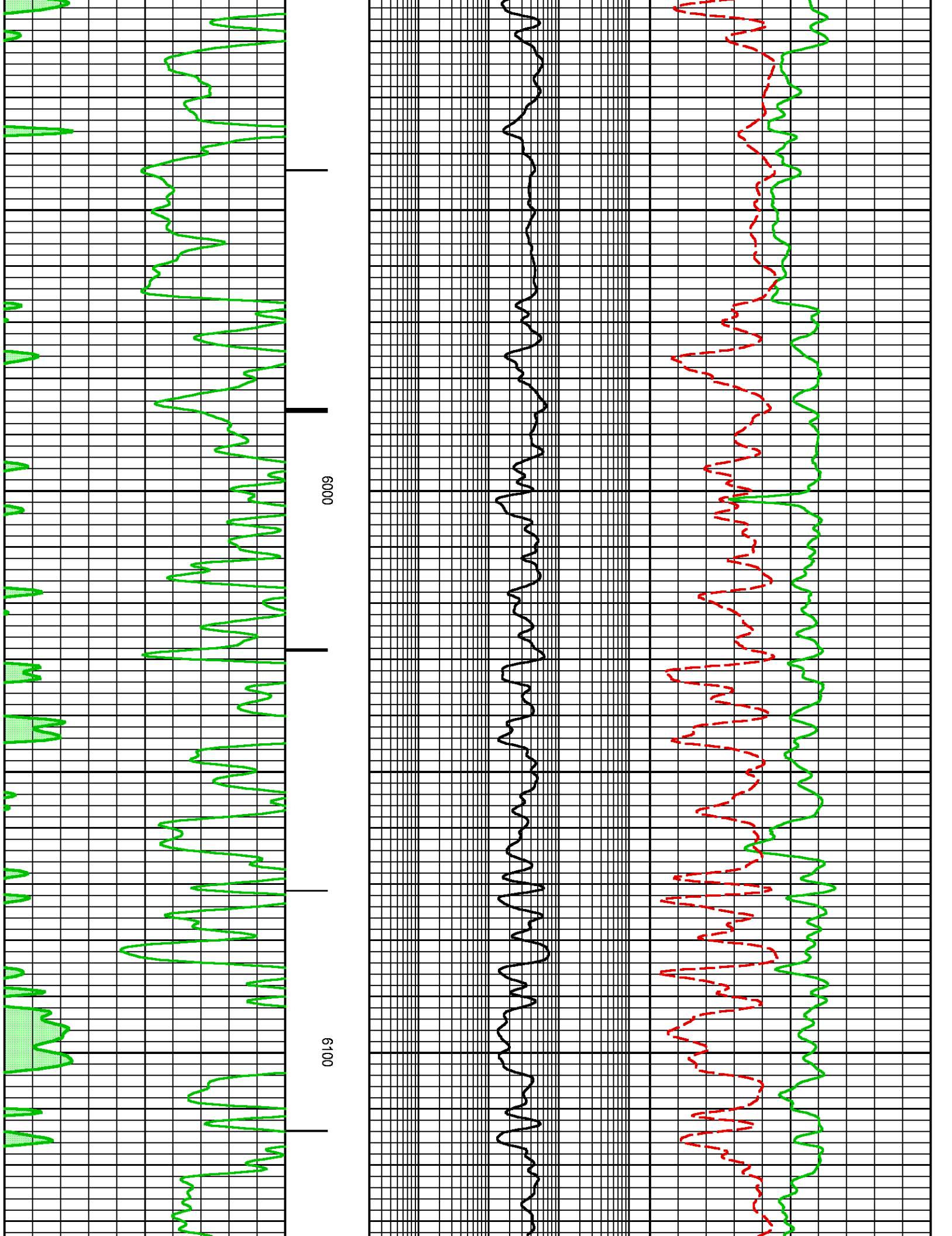
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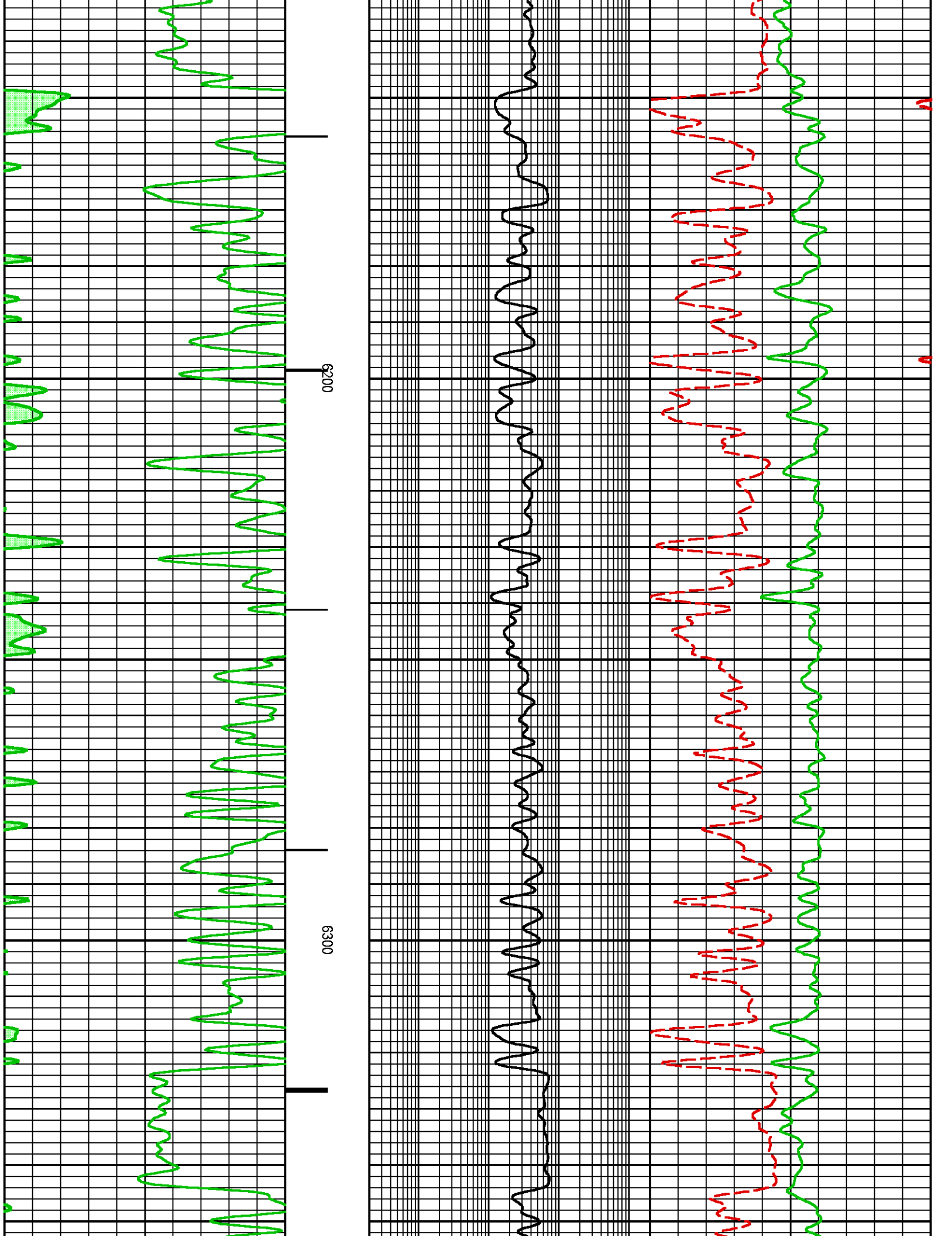
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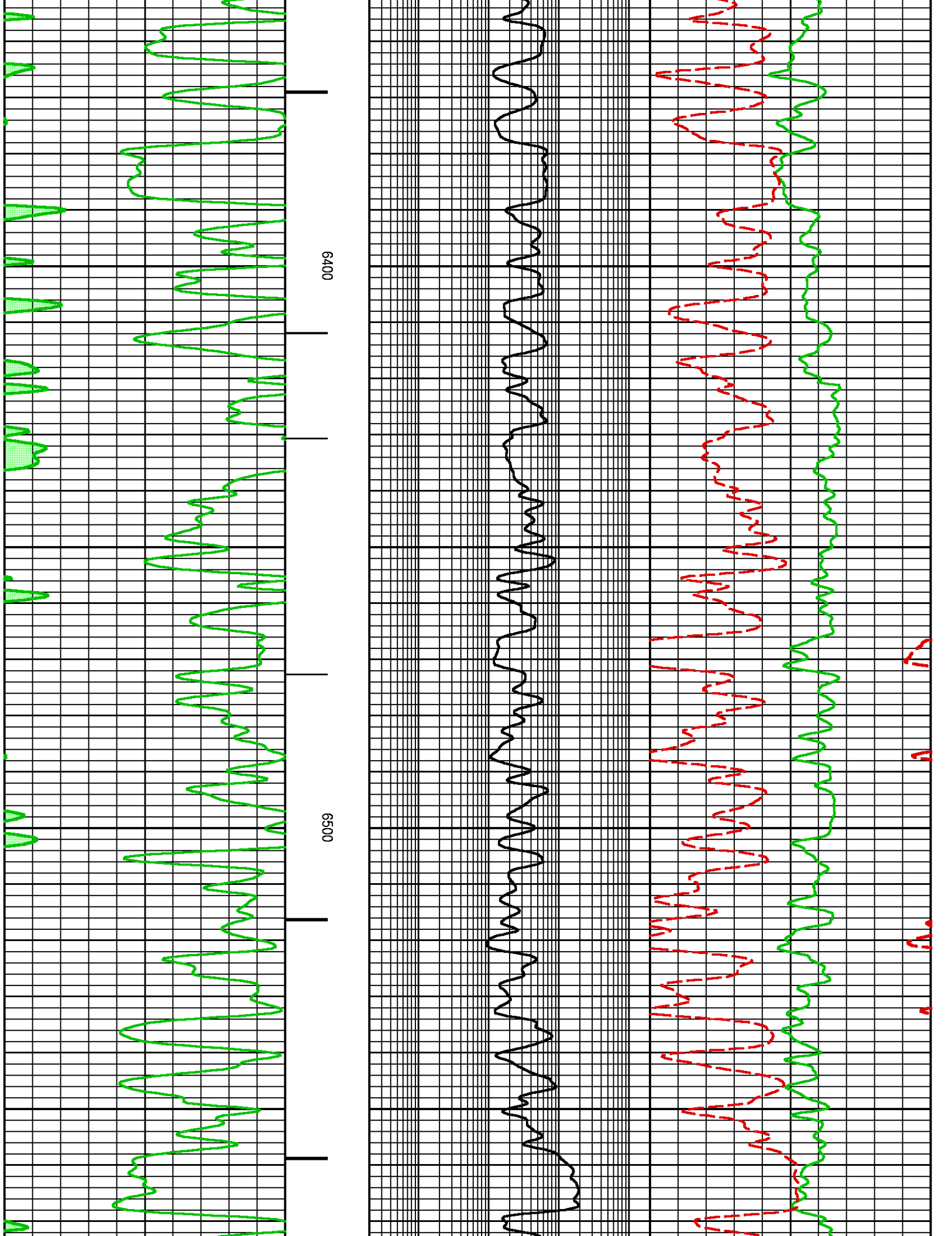


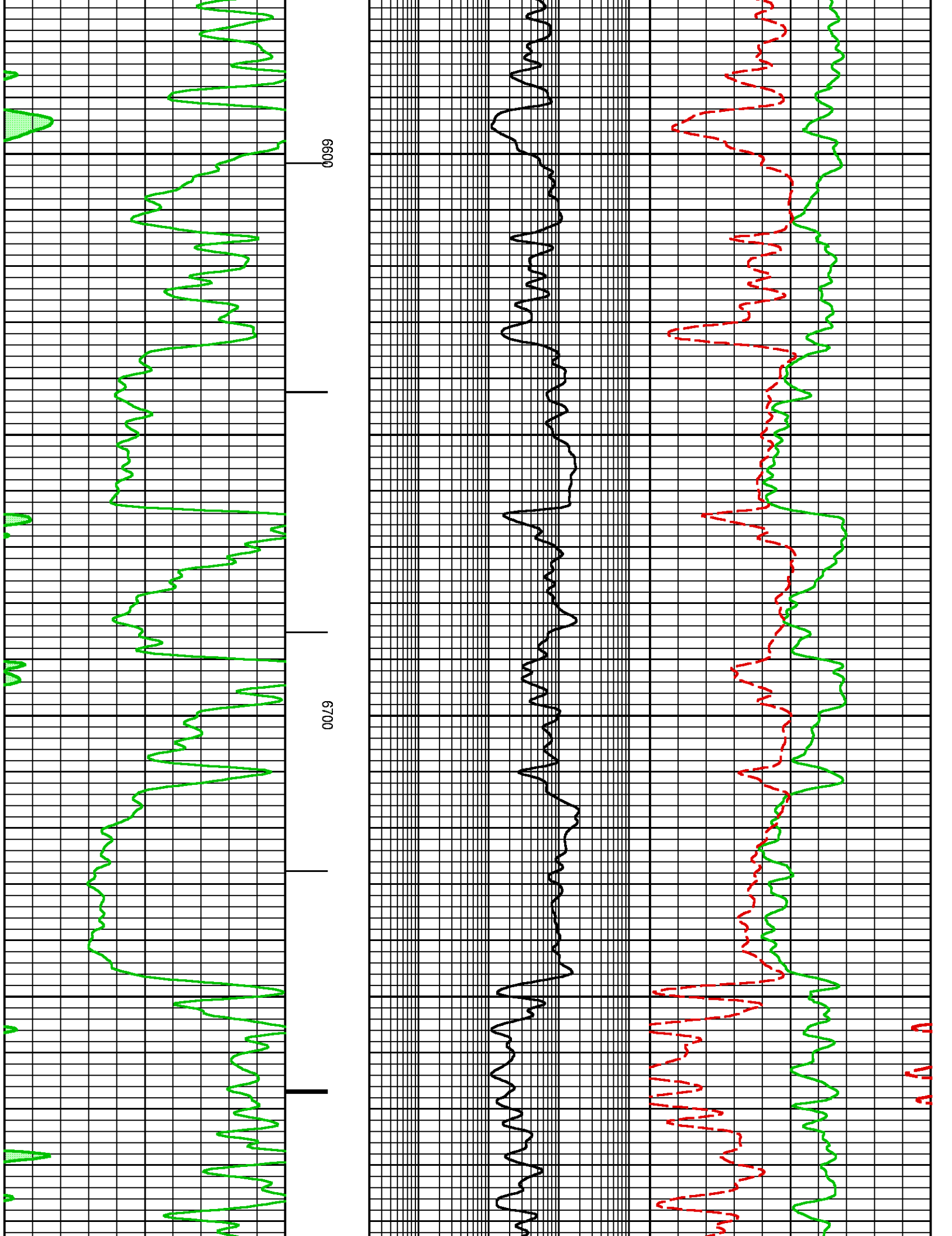


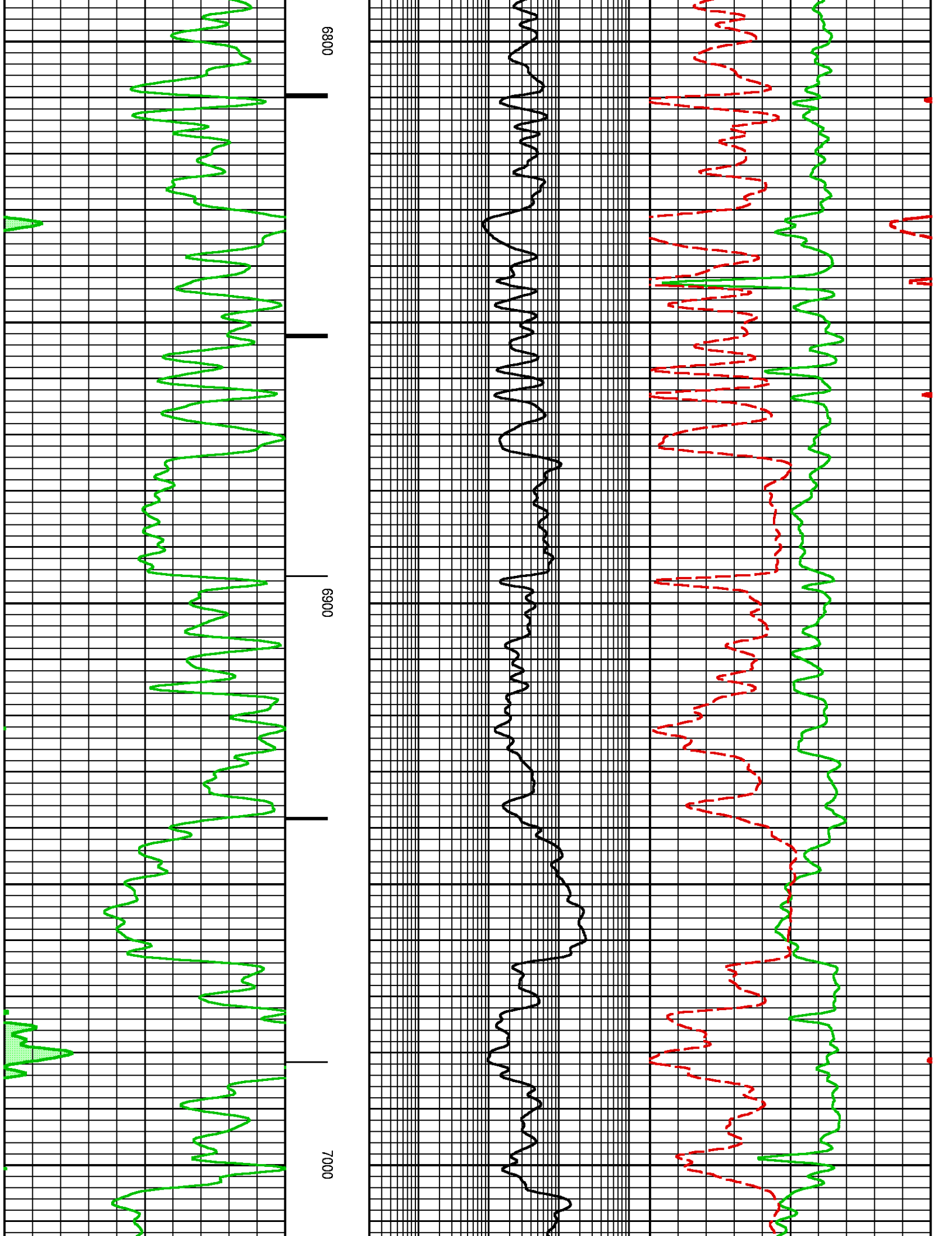


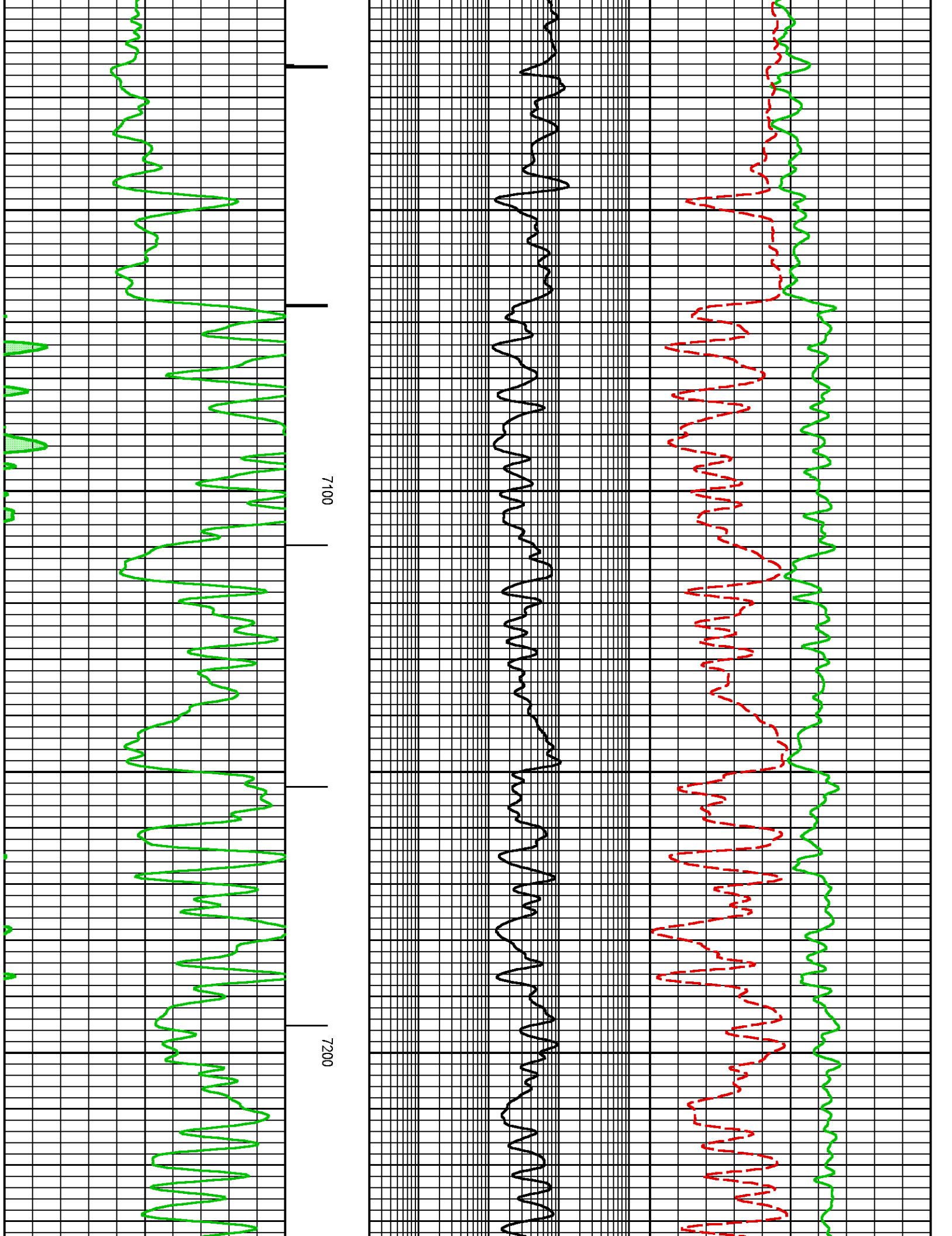


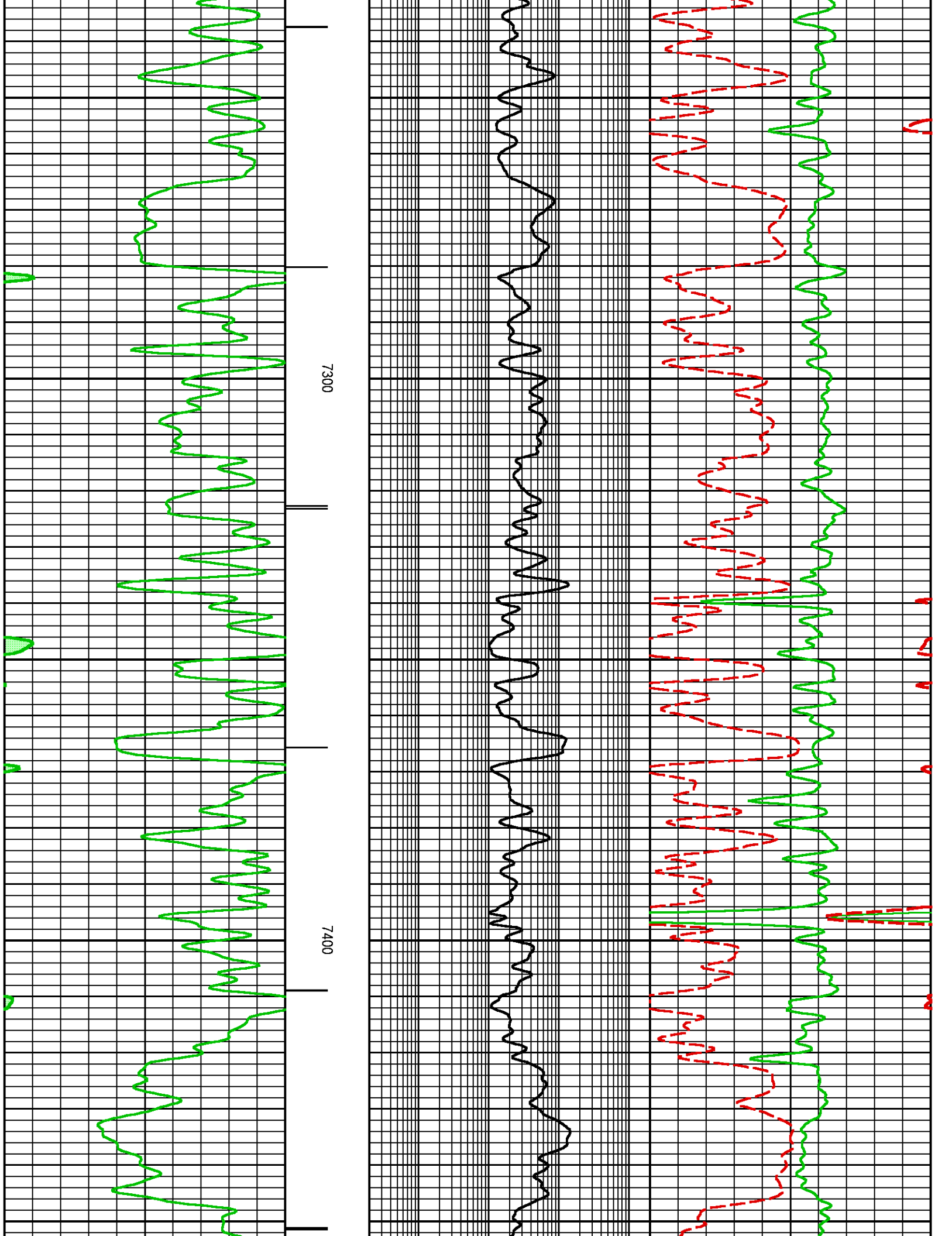


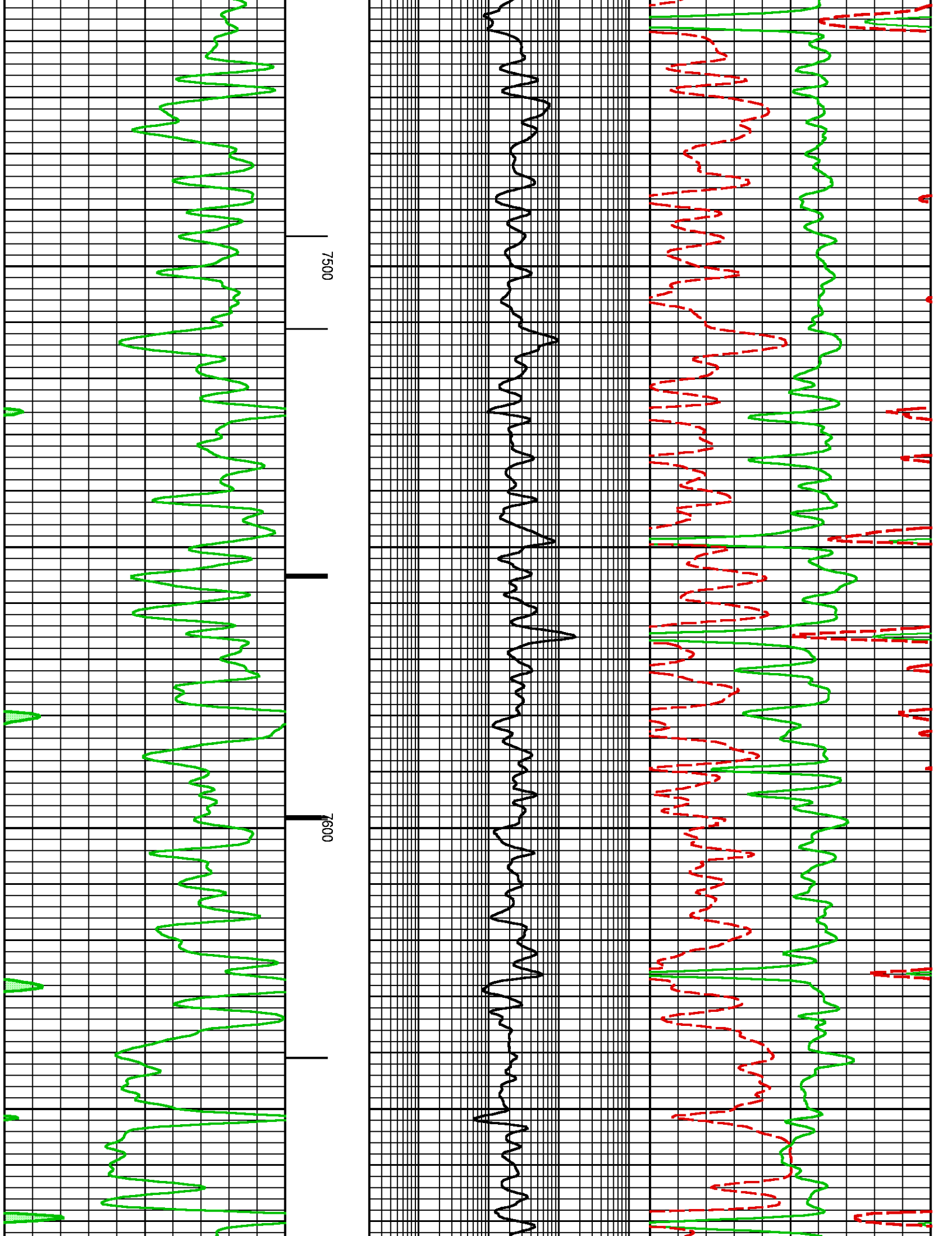


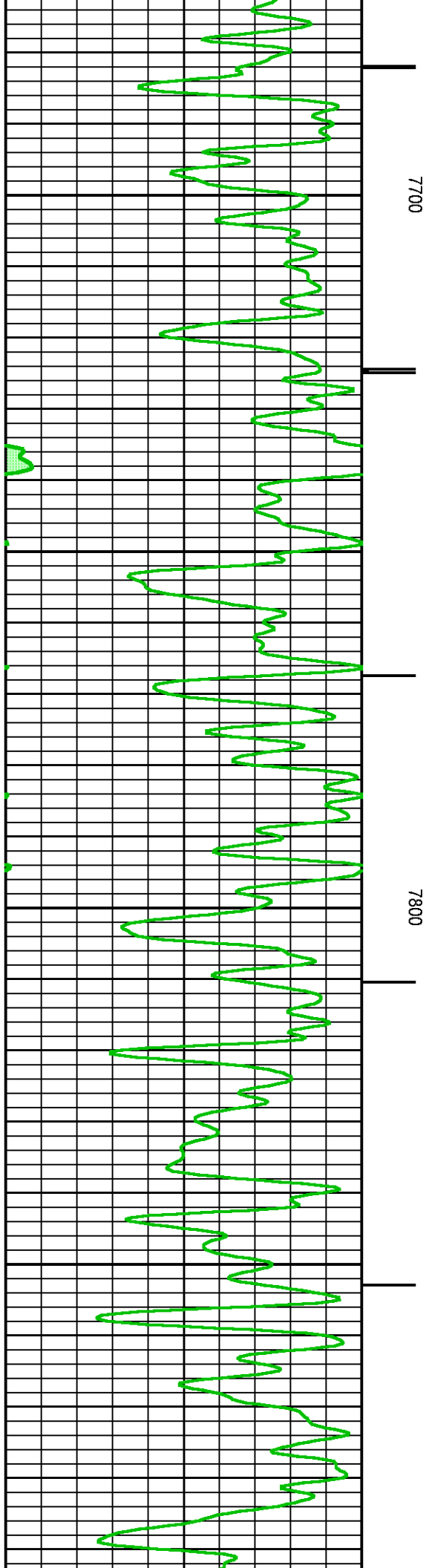
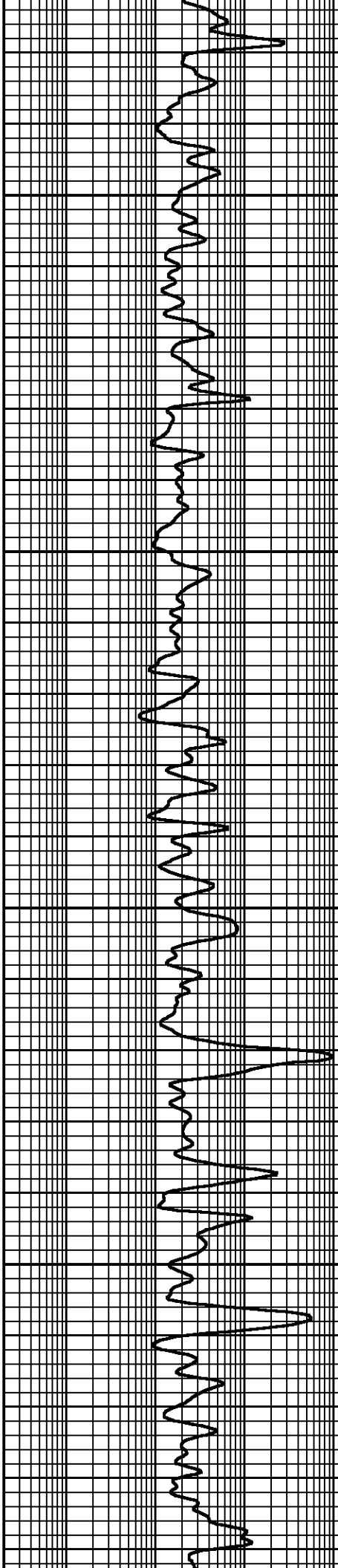
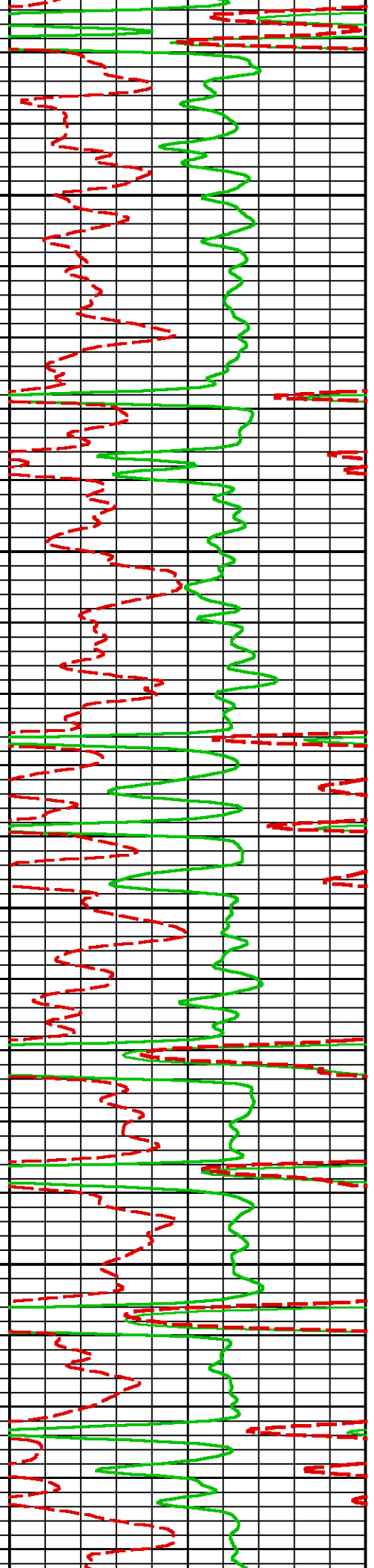


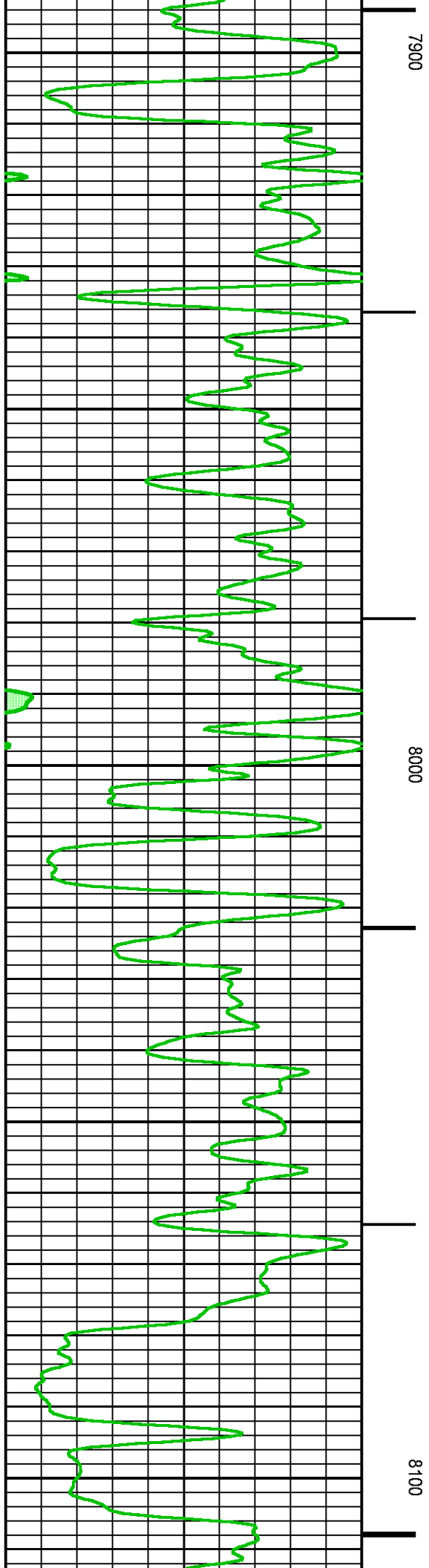
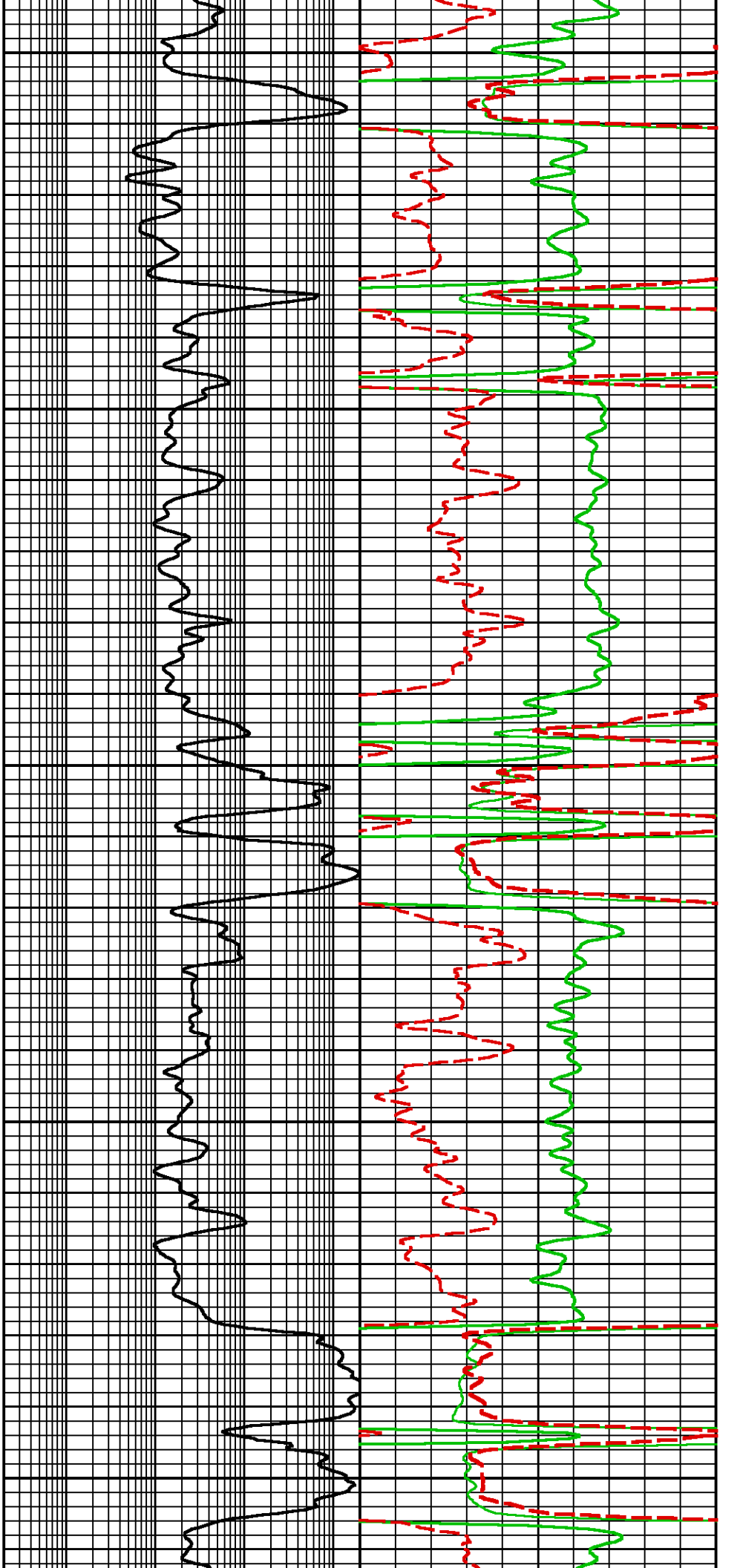


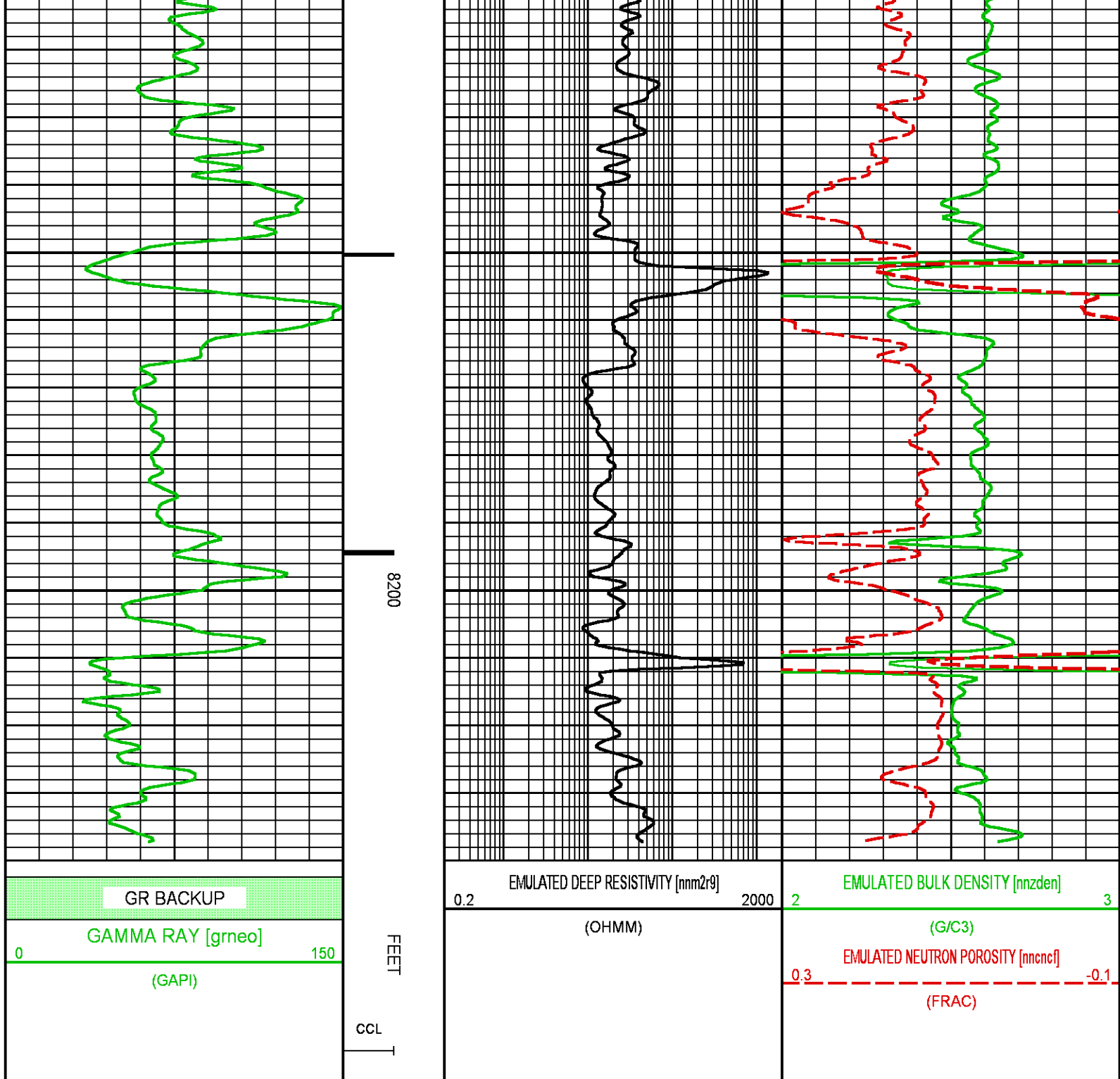












**BAKER
HUGHES**
a GE company



COMPANY
WELL
FIELD
COUNTY

LARAMIE ENERGY LLC
BRUTON FEDERAL 31-01E
VEGA
MESA

STATE **COLORADO**

FILE NO:

API NO:

05077104750000

LOCATION:

SEE REMARKS SECTION

ELEVATIONS:

KB 7673.0 FT

DF 30 FT

GL 7643.0 FT

SEC 30 TWP 9S RGE 93W

DATE

14-APR-2018

**Pulsed Neutron
Formation Evaluation**

