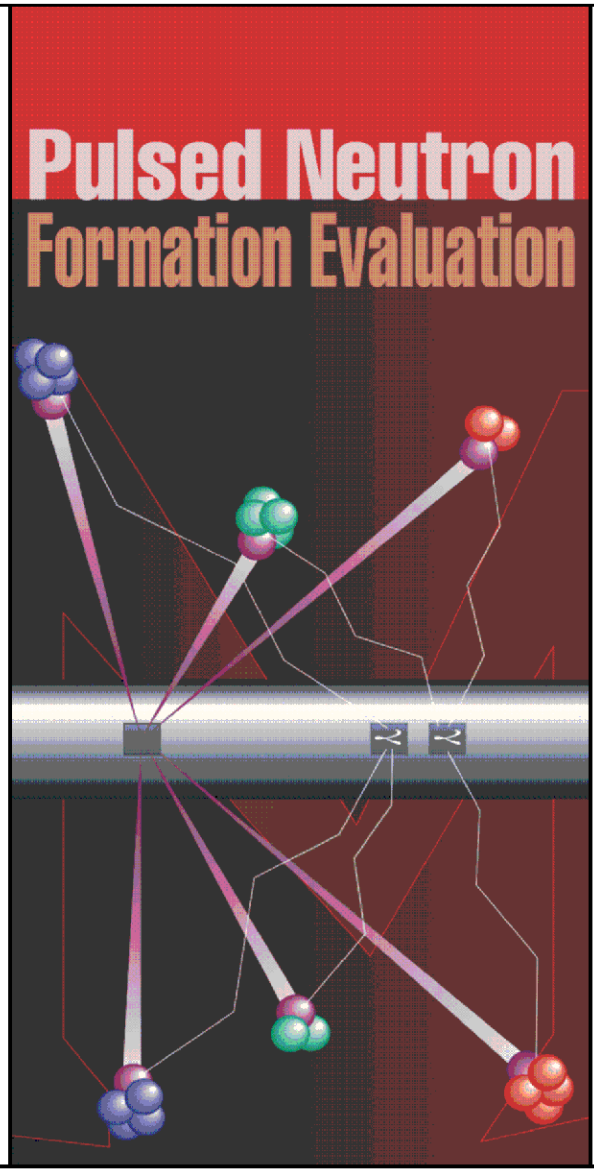
Neutron Emulated Openhole NEO



BAKER HUGHES a GE company

COMPANY LARAMIE ENERGY II LLC

WELL CC 0697-03-15W

FIELD GRAND VALLEY

COUNTY GARFIELD STATE COLORADO

LOCATION: SEE REMARKS SECTION

SEC 3 TWP 6S RGE 97W

ELEVATIONS:

KB 8458.0 FT DF GL 8428.0 FT

DATE 25-AUG-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: RPM-C		PROGRAM: 'NEO
	CENTER: CALGARY GEOSCIENCE	LOG ANALYST: A. KOTOV	DATE: 29-AUG-2018
FIELD DATA	LOCATION: GRAND JCT.	ENGINEER: M.BAUKA/US140254J	DATE: 25-AUG-2018

FROM	TO								
4521 FT	9627 FT								

REMARKS

LOCATION:
SHL: 3576.0' FNL & 1312.0' FWL
BHL: 3576.0' FNL & 1312.0' FWL

TRAINING WELL: CC 0697-03-17W
TNPH - NEUTRON POROSITY
TBIT90 - DEEP RESITIVITY
NNZDEN - BULK DENSITY EMULATED USING GUNDERSON 0994-13-06W AS TRAINING WELL.

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

OPEN HOLE LOG IS DEPTH REFERENCE LOG

ANALYST: ALEXANDR KOTOV

NEO RESULTS FOR CC 0697-03-15W (G-SAND)

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

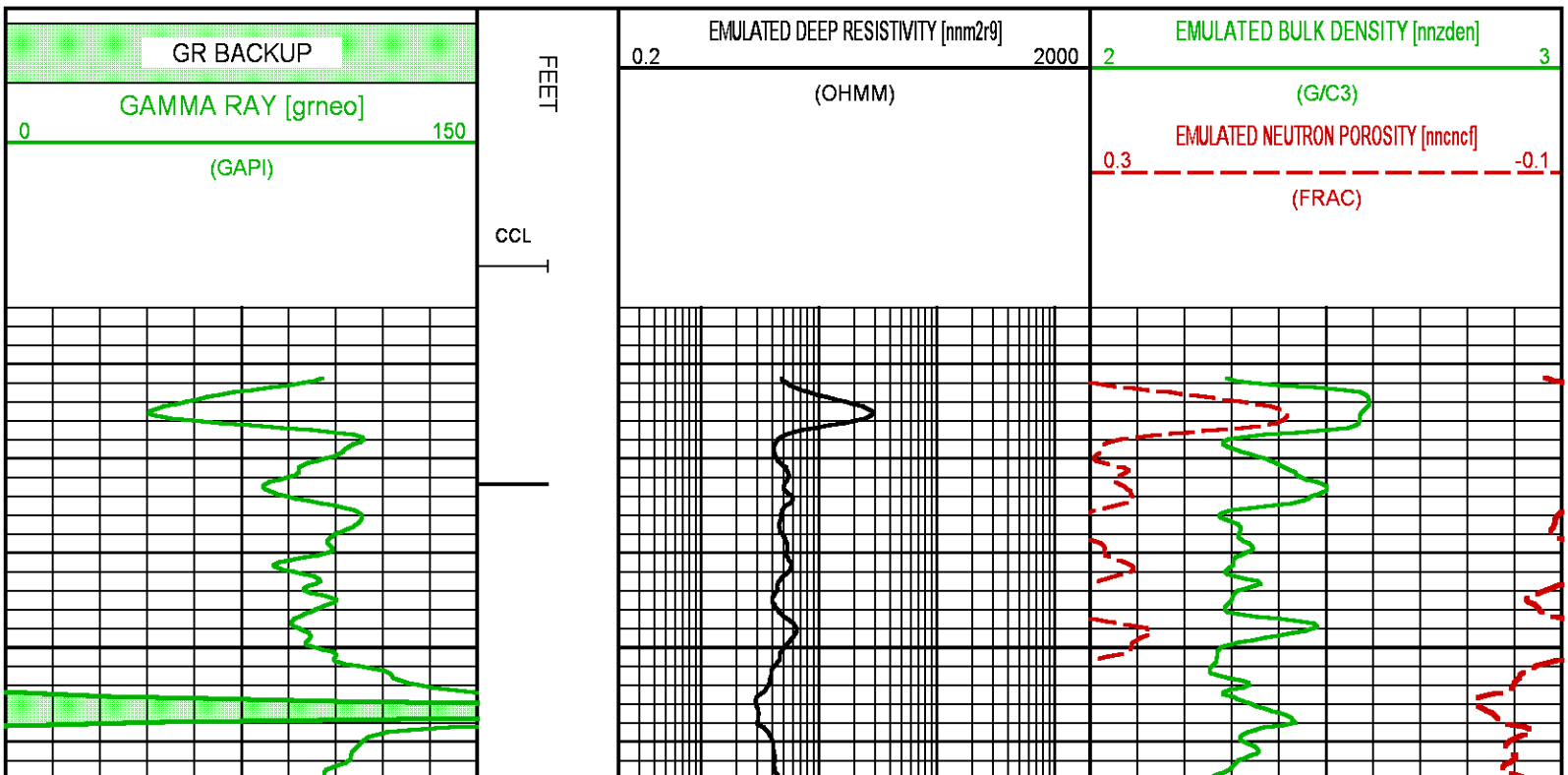
Plotted: Wed Aug 29 11:36:31 2018

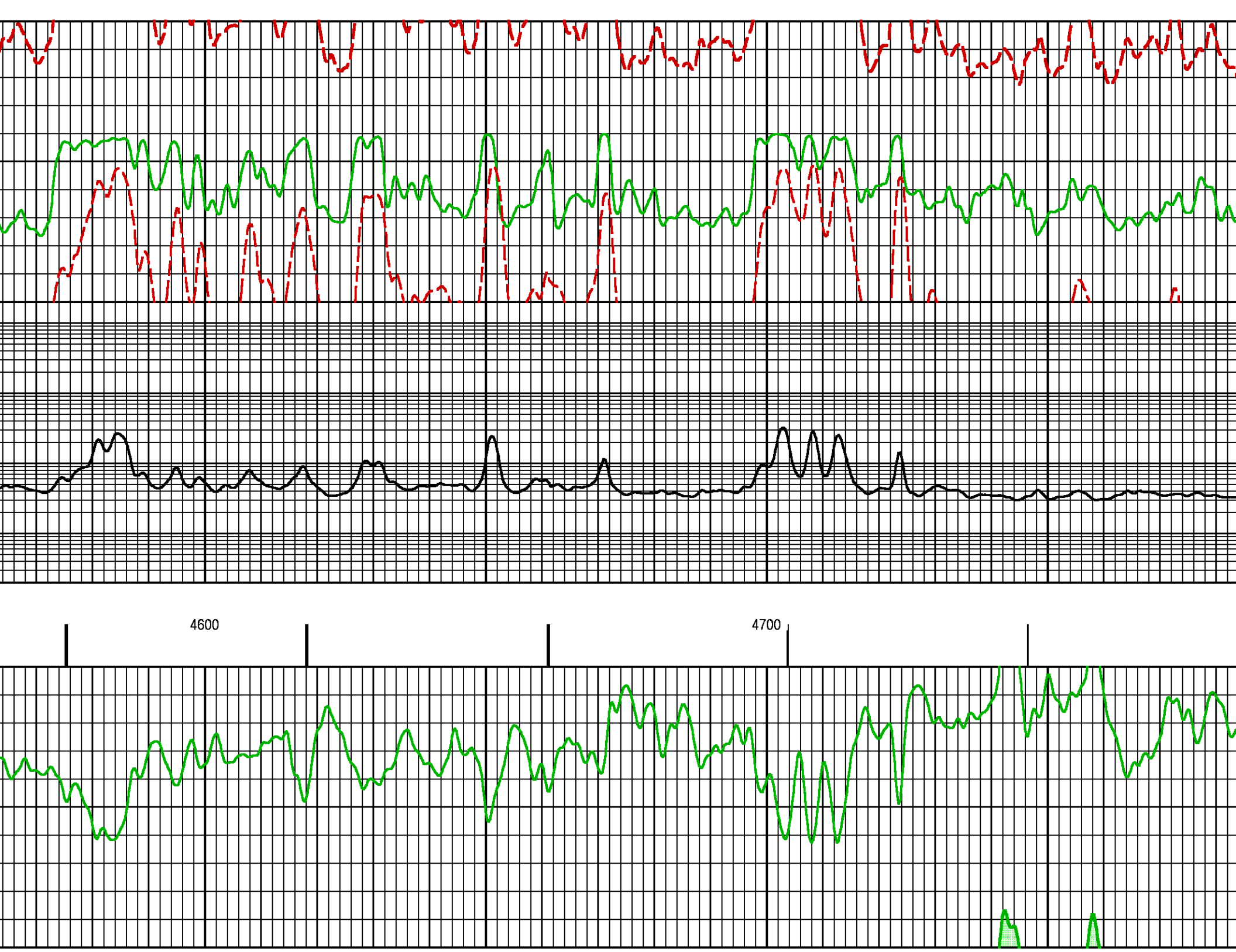
CURVE MEASURE POINT OFFSET

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_CC_0697_03_15W_NEO\NEO_PRESENTATION_LARAMIE_G-Sand.pdf [5"/100' Scale]
Plot Interval : 4514 - 5144 Feet

Data File 1 : F1 : BHI1F65XZ1:D:\Ape_Projects\LARAMIE_CC_0697_03_15W_NEO\Merged_Set_Final.xtf
Created On : N/A
Company : LARAMIE ENERGY LLC
Well : CC 0697-03-15W
Field : GRAND VALLEY
File Interval : 4521.5 - 9627.5 Feet
OCT : NA

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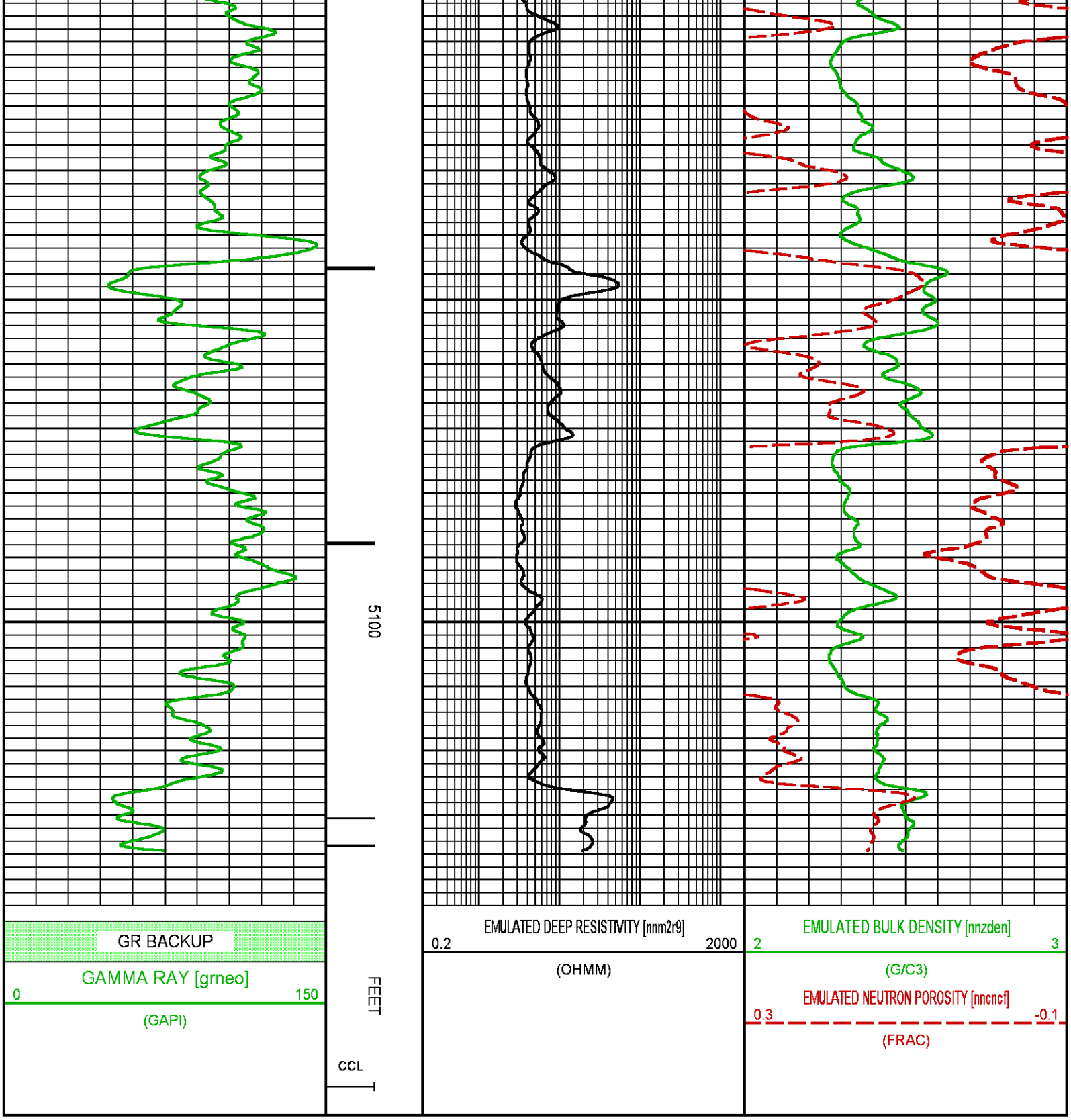
4700

4800
4900
5000



NEO RESULTS FOR CC 0697-03-15W (MAIN)

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

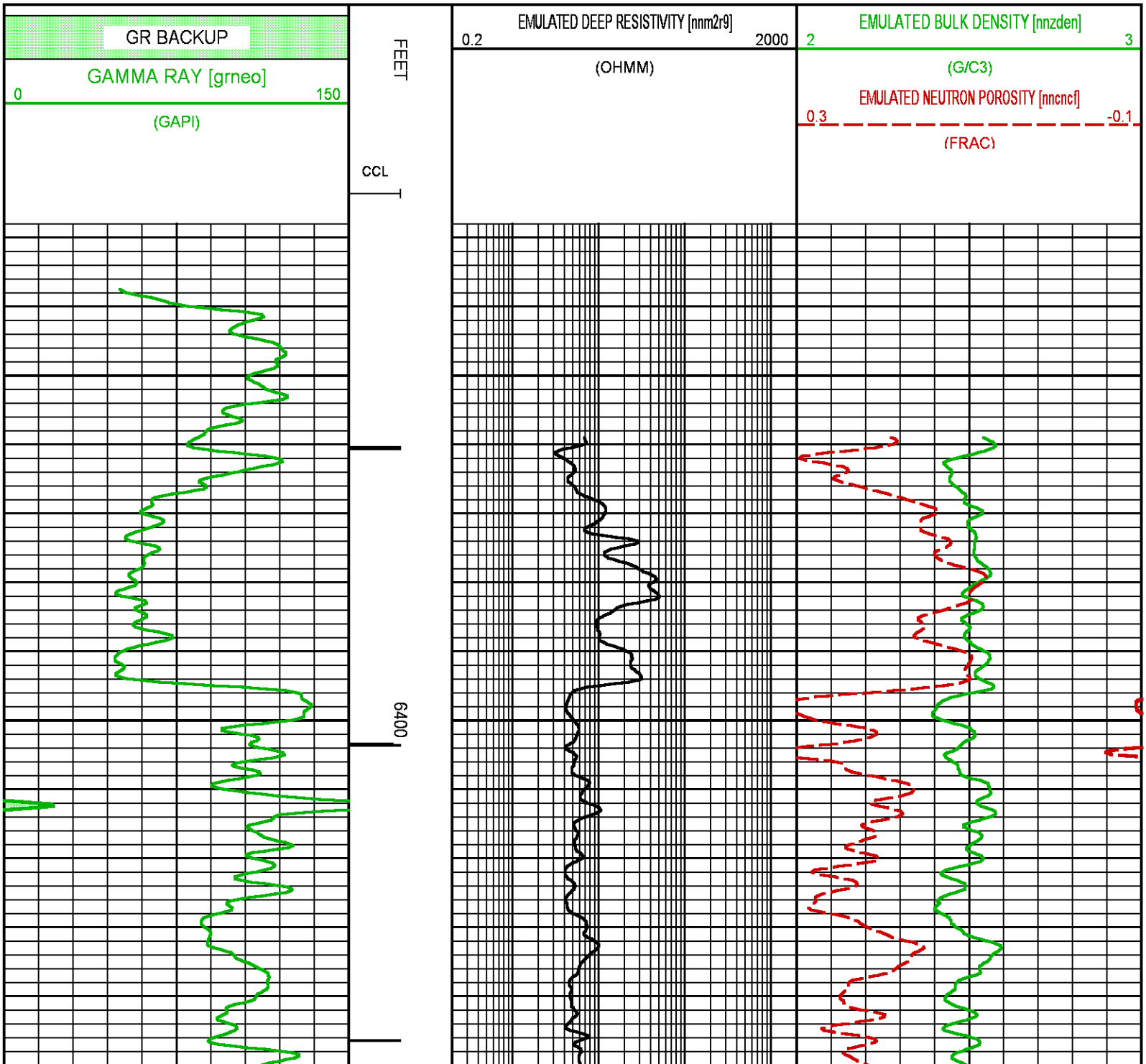
Plotted: Wed Aug 29 11:36:30 2018

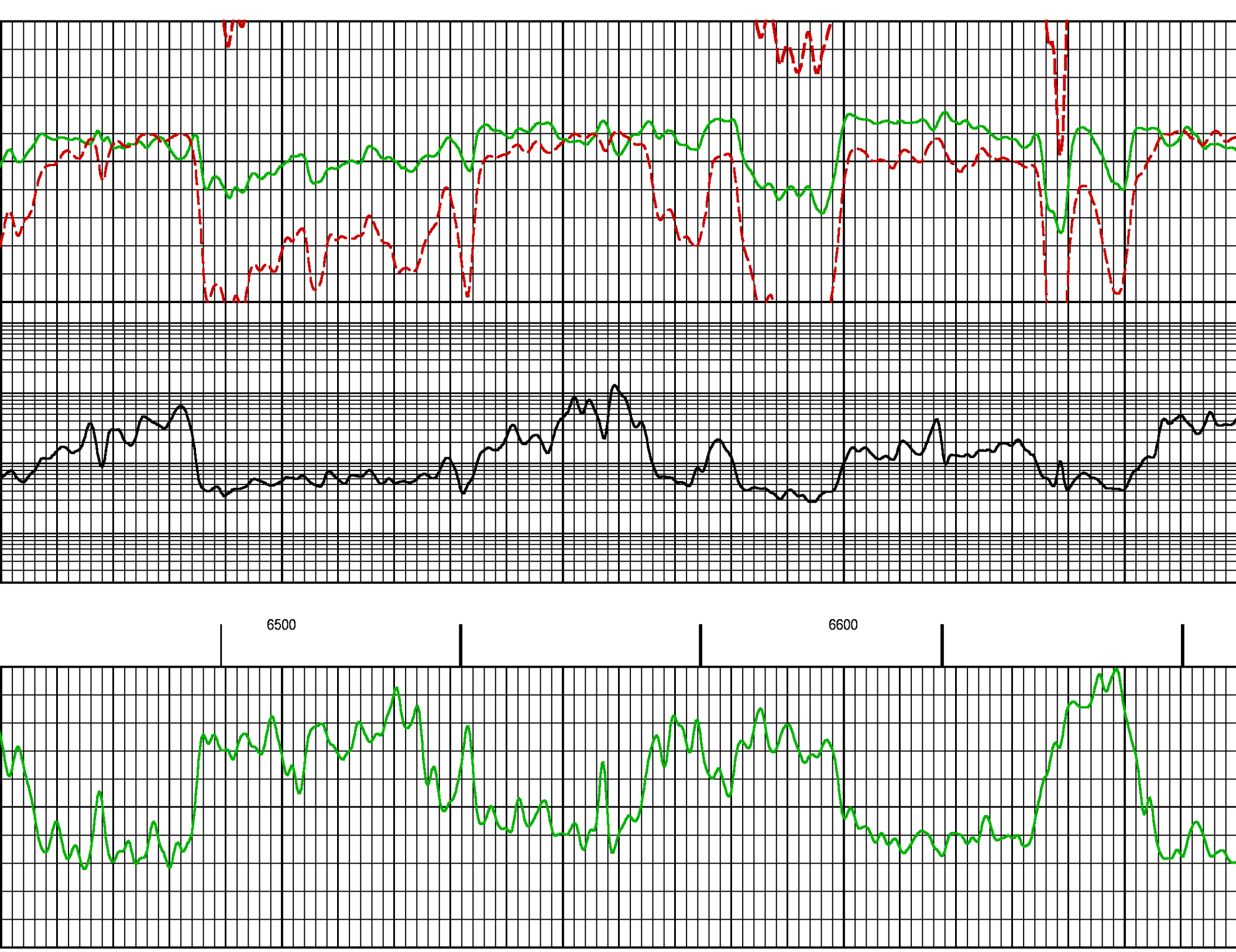
CURVE MEASURE POINT OFFSET

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_CC_0697_03_15W_NEO\NEO_PRESENTATION_LARAMIE_MAIN.pdf [5"/100' Scale]
Plot Interval : 6329 - 9633 Feet

Data File 1 : F1 : BHI1F65XZ1:D:\Ape_Projects\LARAMIE_CC_0697_03_15W_NEO\Merged_Set_Final.xtf
Created On : N/A
Company : LARAMIE ENERGY LLC
Well : CC 0697-03-15W
Field : GRAND VALLEY
File Interval : 4521.5 - 9627.5 Feet
OCT : NA

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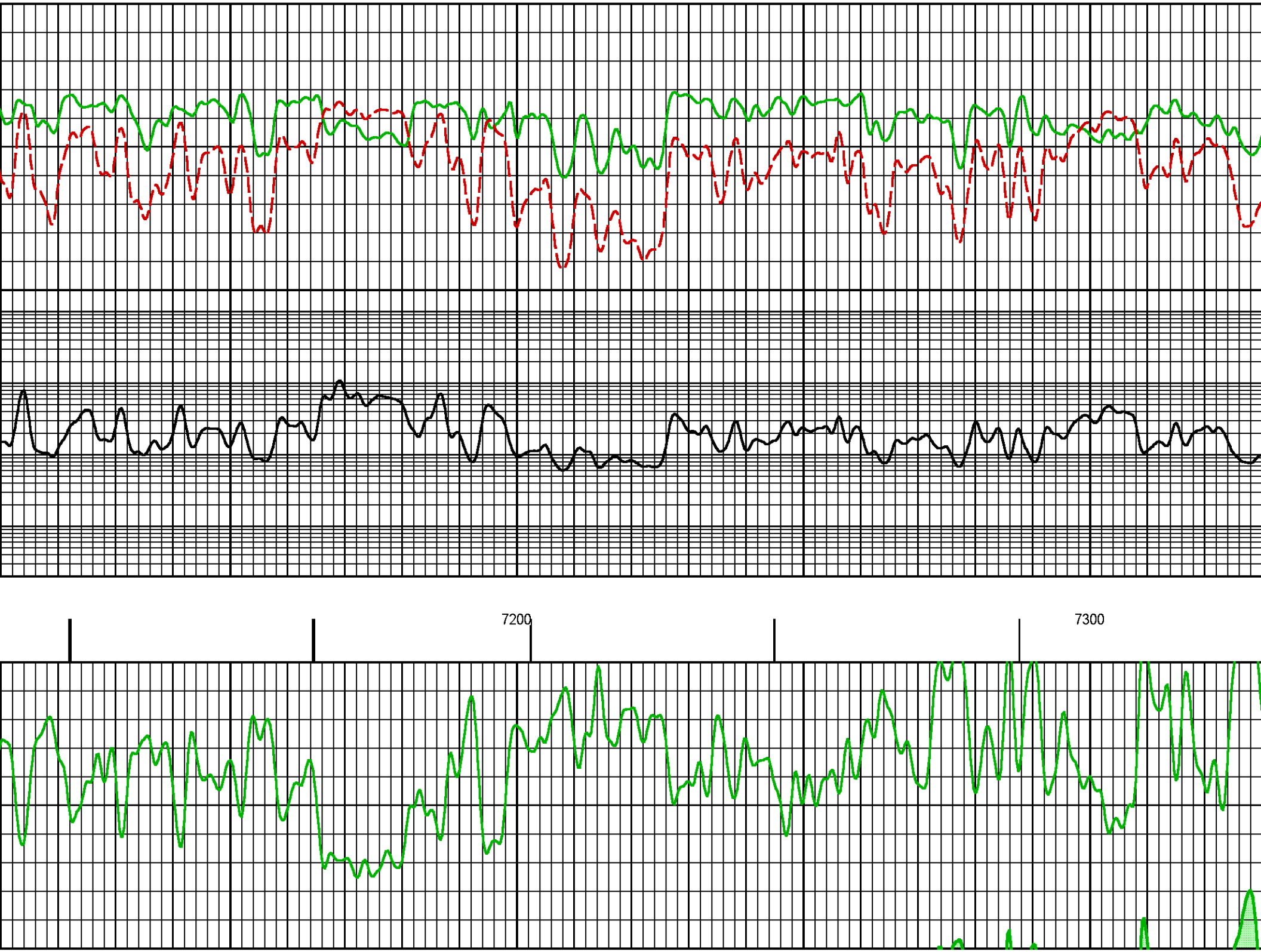
6600

6700

6800

6900
7000
7100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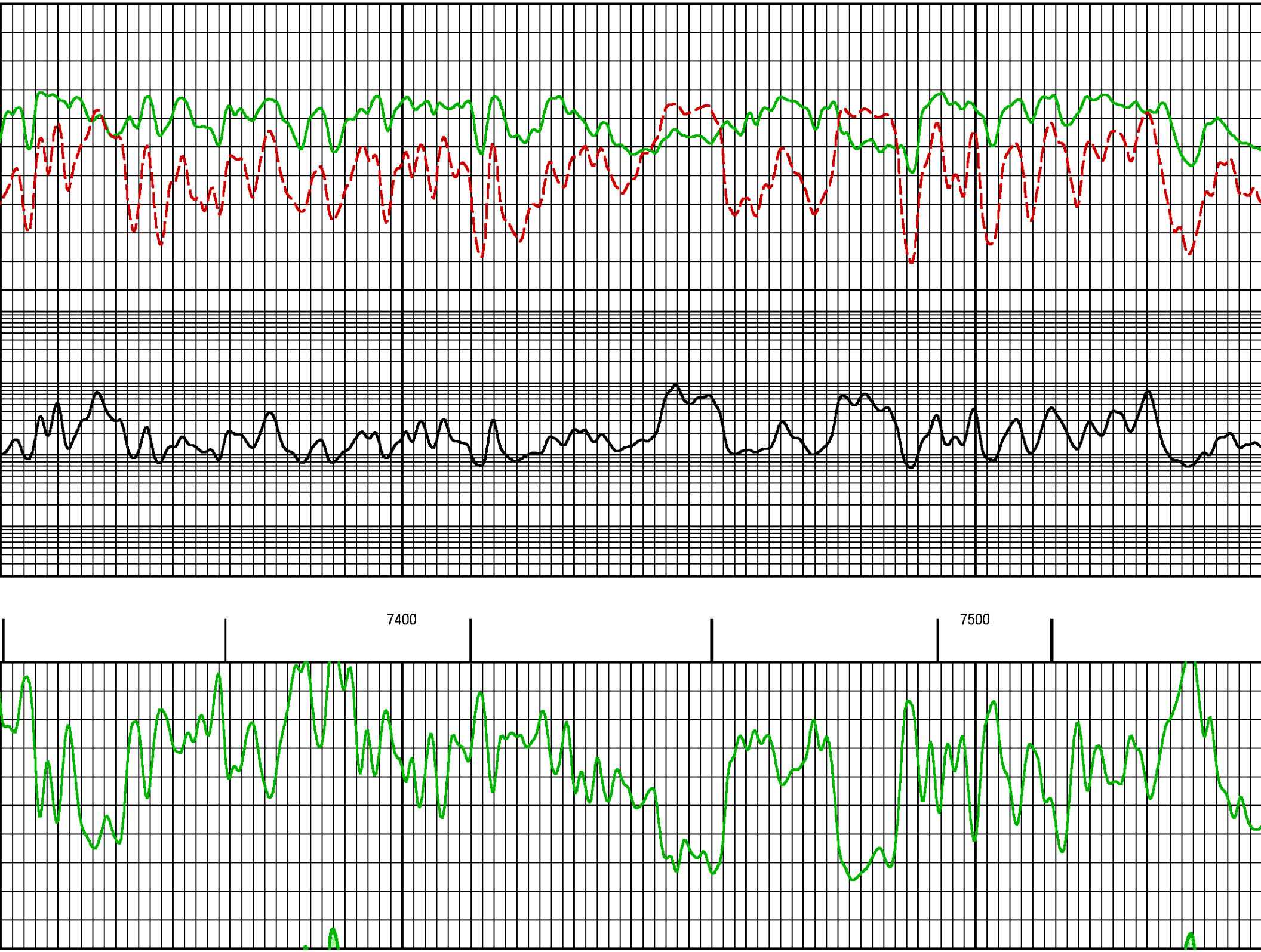
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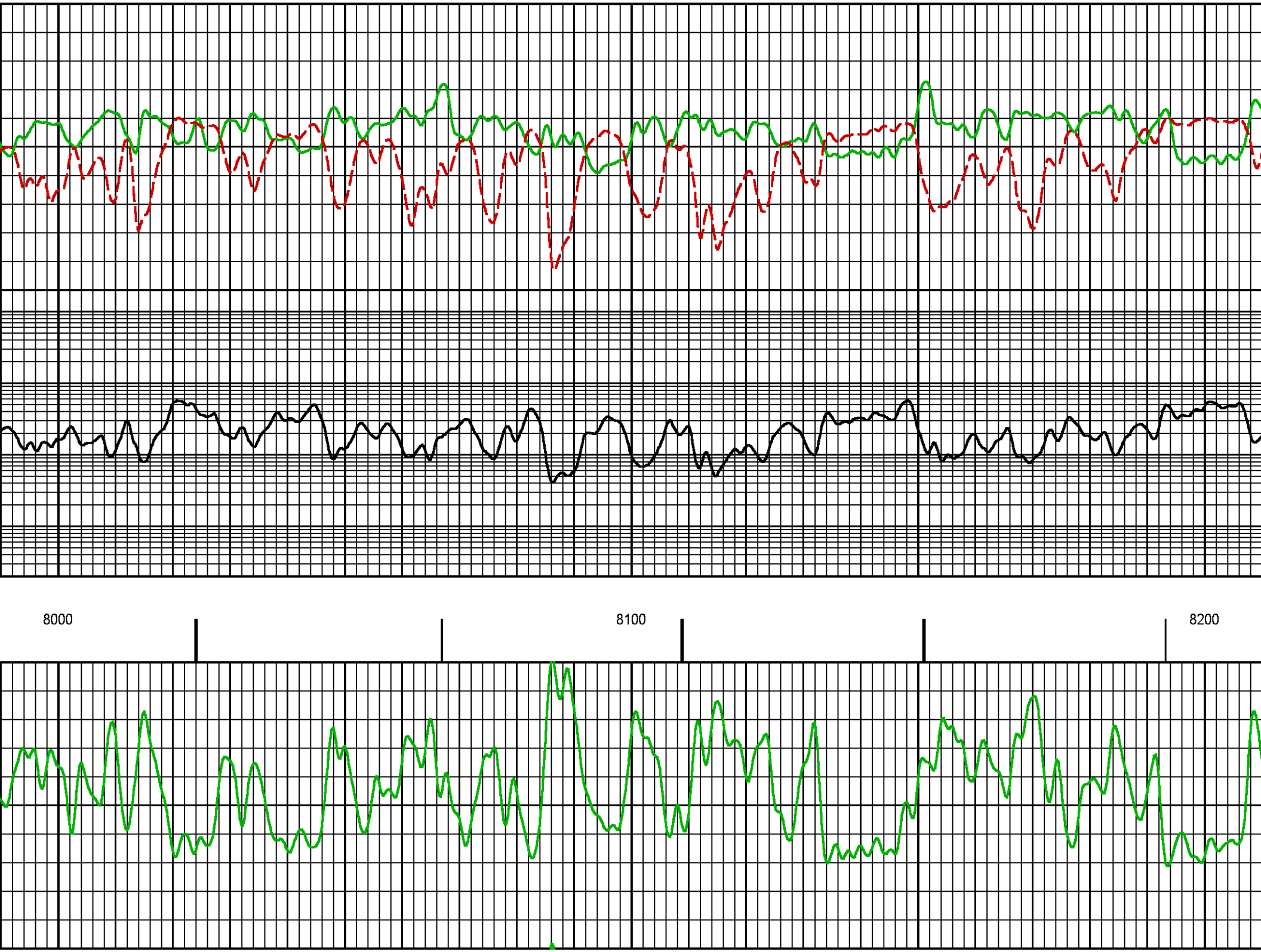
7600

7700

7800

7900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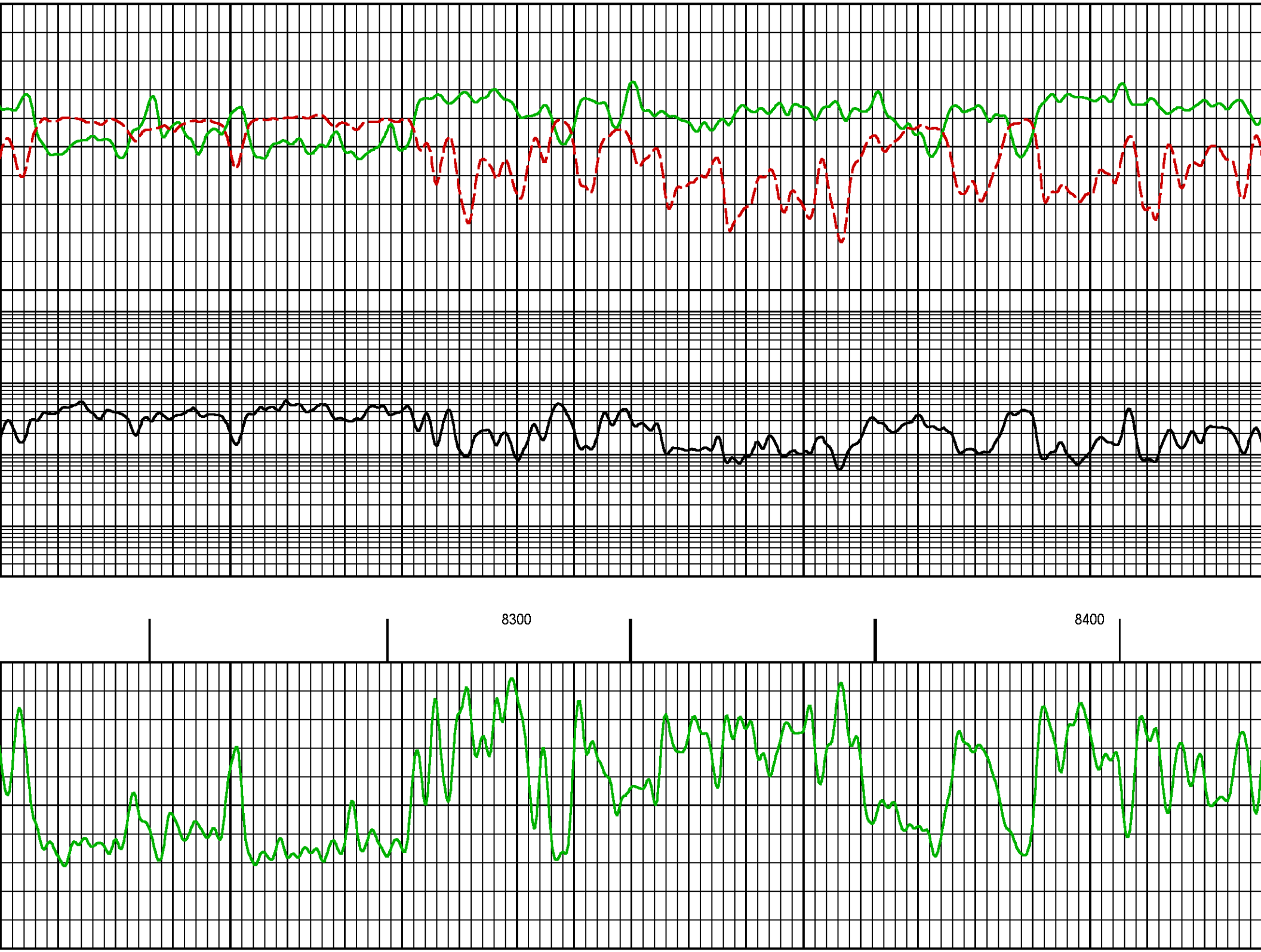
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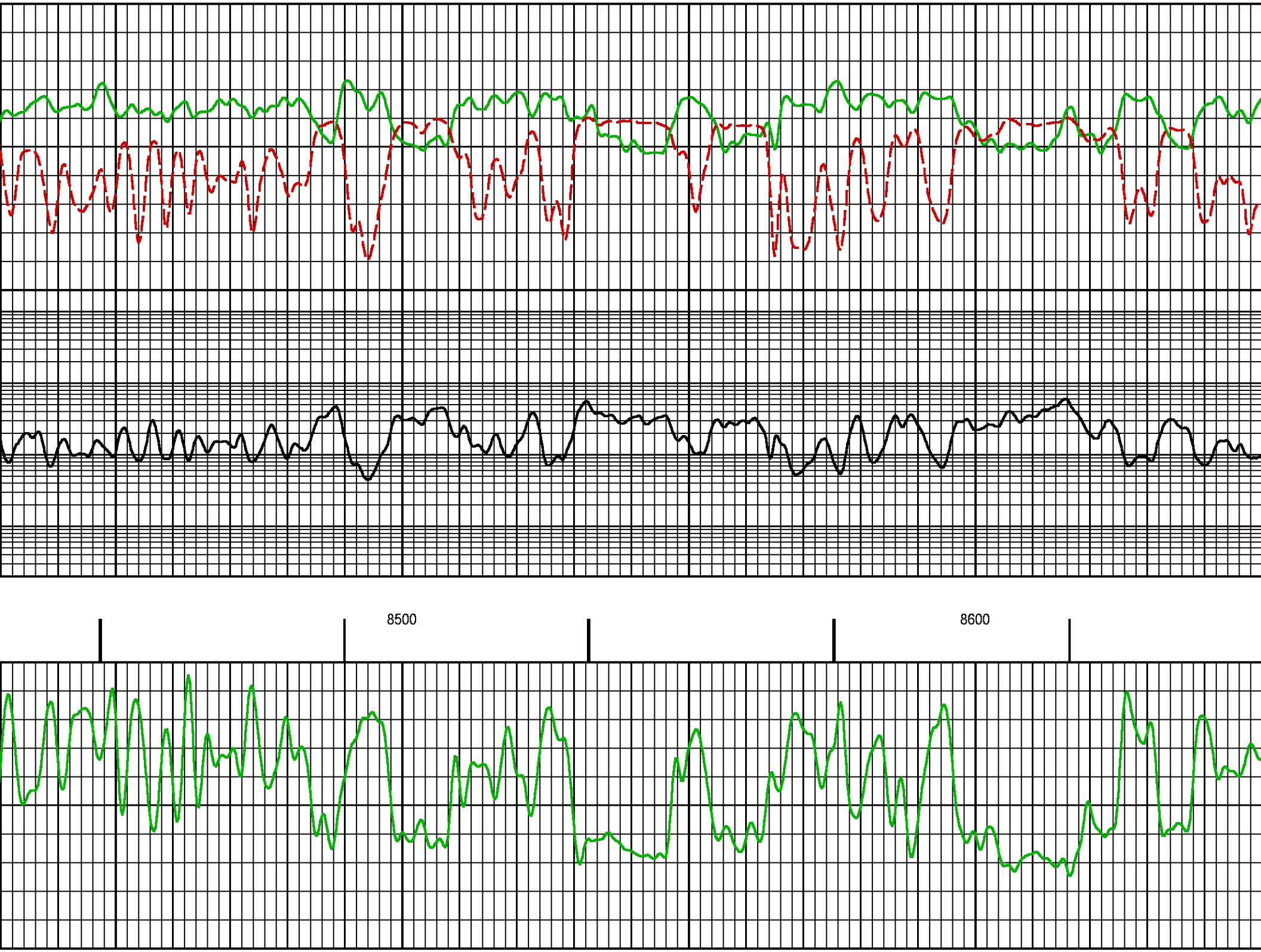
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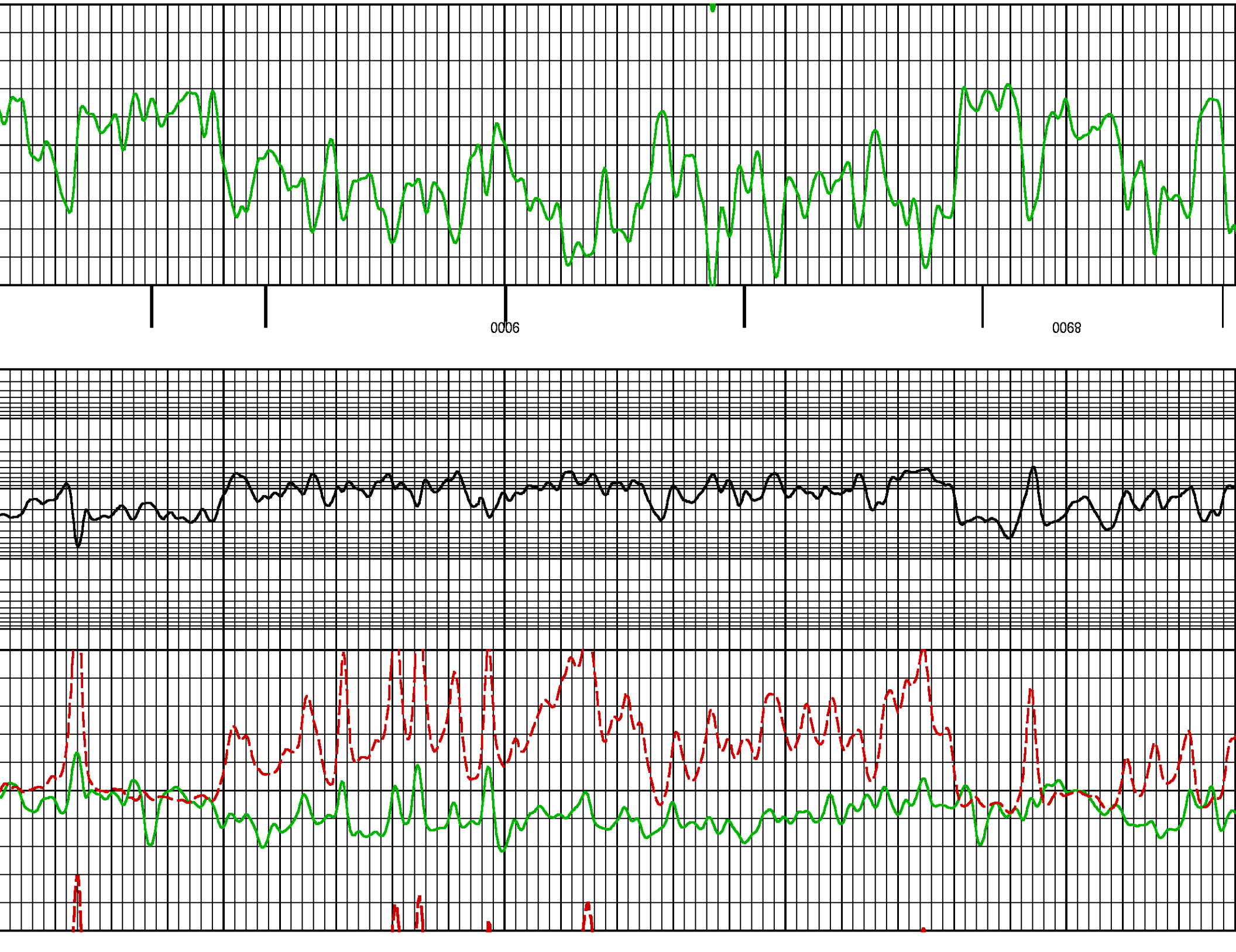
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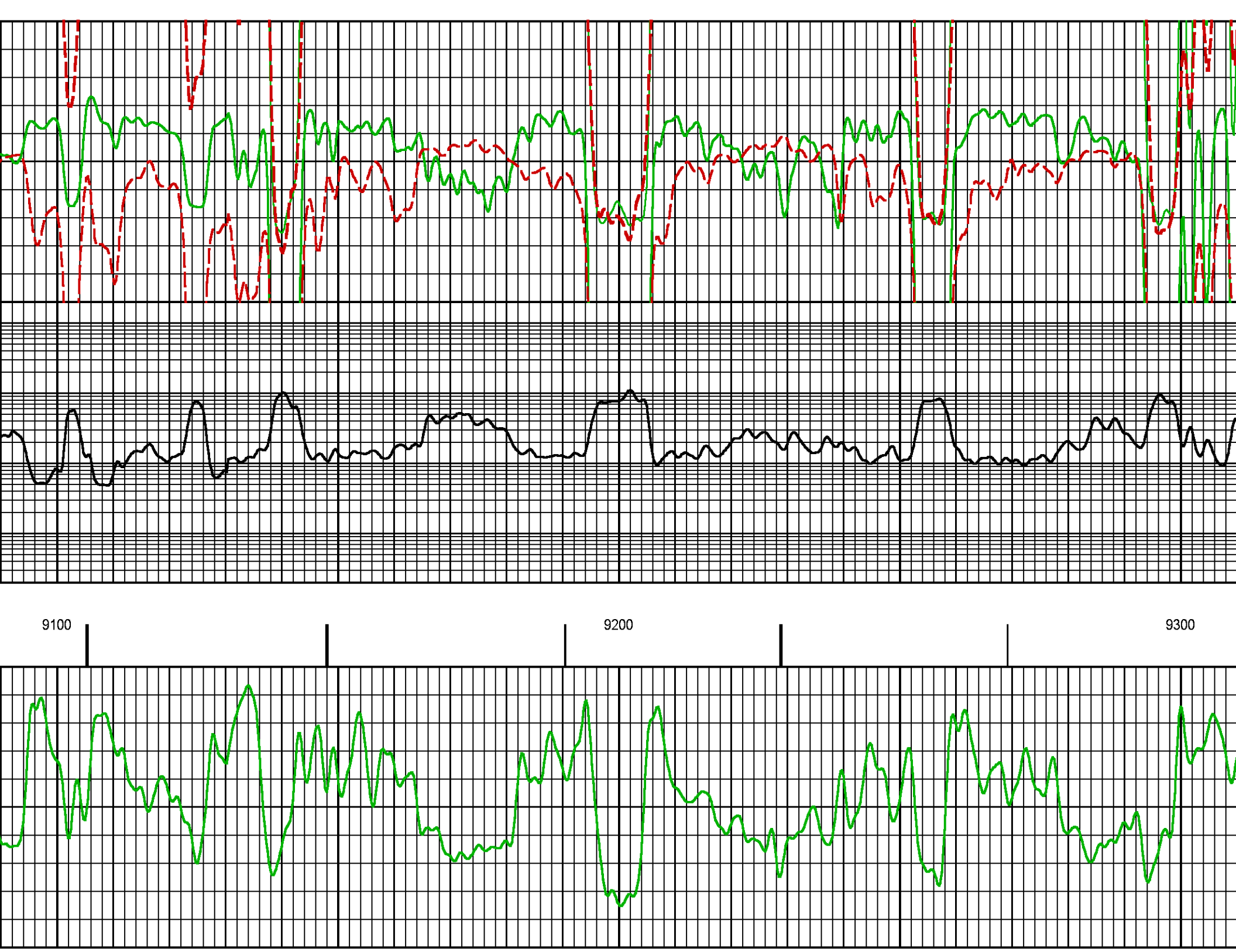
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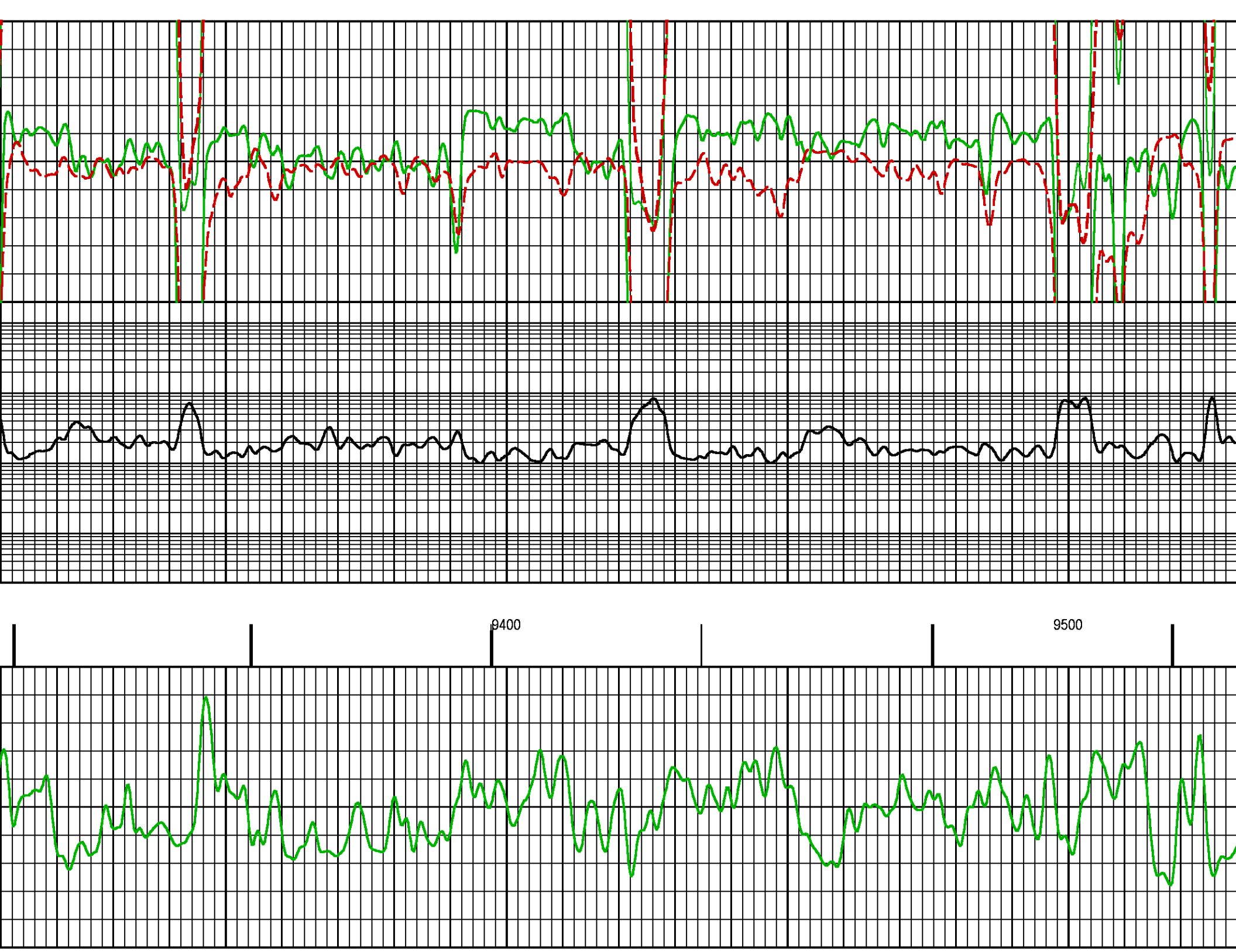
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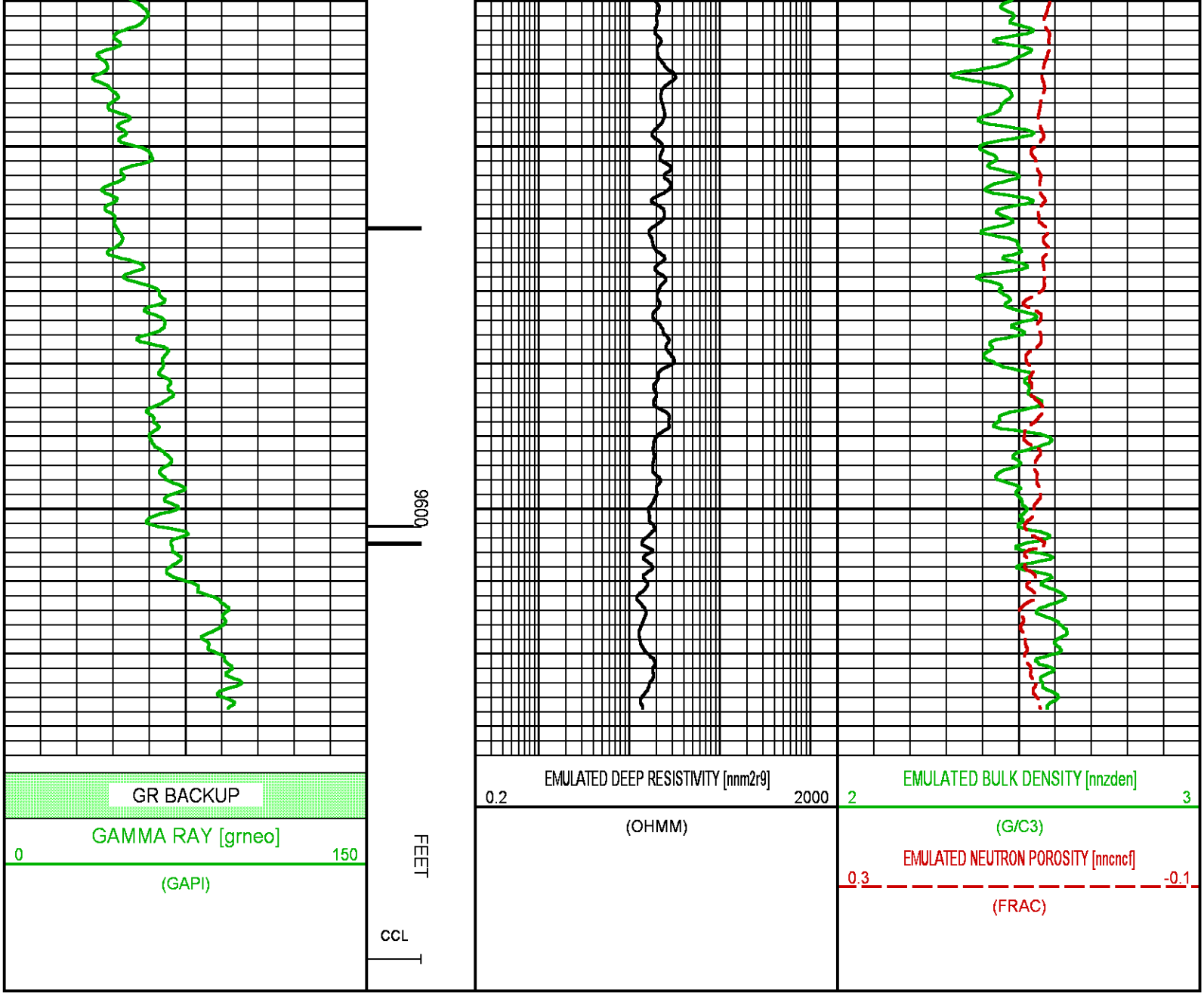

BAKER HUGHES a GE company

Pulsed Neutron Formation Evaluation

COMPANY	LARAMIE ENERGY II LLC
WELL	CC 0697-03-15W
FIELD	GRAND VALLEY
COUNTY	GARFIELD
STATE	COLORADO

FILE NO:

API NO: 05045238020000

LOCATION:

SEE REMARKS SECTION

SEC 3 TWP 6S RGE 97W

ELEVATIONS:

KB 8458.0 FT

DF

GL 8428.0 FT

DATE 25-AUG-2018