BAKER HUGHES

HIGH DEFINITION INDUCTION LOG SM
COMPENSATED Z-DENSILOG SM
COMPENSATED NEUTRON LOG
GAMMA RAY LOG
CALIPER LOG

FILE NO: US090086

API NO: 05045213790000

COMPANY WPX ENERGY INC

WELL AP 523-17-695

FIELD PARACHUTE

COUNTY GARFIELD STATE COLORADO

Ver. 3.87

SEC 17 T6S R95W

AP 21-20-695

RIG: NABORS 573

LOCATION:

SHL: 23' FNL 2497' FWL

BHL: 1571' FSL 2220' FWL

SEC 17 TWP 6S RGE 95W

OTHER SERVICES

NONE

PERMANENT DATUM GL ELEVATION 6909 FT

LOG MEASURED FROM KB 26 FT ABOVE P.D.

DRILL. MEAS. FROM KB

ELEVATIONS:

KB 6935 FT

DF

GL 6909 FT

DATE		13-SEP-2014	
RUN	TRIP	1	1
SERVICE ORDER		US090086J	
DEPTH DRILLER		9770 FT	
DEPTH LOGGER		9470 FT	
BOTTOM LOGGED INTERVAL		9450 FT	
TOP LOGGED INTERVAL		0 FT	
CASING DRILLER		9.625 IN @ 2587 FT	@
CASING LOGGER		2586 FT	
BIT SIZE		8.75 IN	
TYPE OF FLUID IN HOLE		LSND	
DENSITY	VISCOSITY	10.85 LB/G	52 S
PH	FLUID LOSS	8.9	6 C3
SOURCE OF SAMPLE		FLOWLINE	
RM AT MEAS. TEMP.		1.14 OHMM @ 66.9 DEGF	@
RMF AT MEAS. TEMP.		0.855 OHMM @ 66.9 DEGF	@
RMC AT MEAS. TEMP.		1.425 OHMM @ 66.9 DEGF	@
SOURCE OF RMF	RMC	CALCULATED	CALCULATED
RM AT BHT		0.566 OHMM @ 208 DEGF	@
TIME SINCE CIRCULATION		6 HRS	
MAX. RECORDED TEMP.		208 DEGF	
EQUIP. NO.	LOCATION	6685	GRAND JCT
RECORDED BY		W. QUIGLEY	
WITNESSED BY		MR. HARRY SAMSON	

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN	32.3 LB/F		0 FT	2586 FT

BOREHOLE RECORD

BIT SIZE	FROM	TO
13.5 IN	0 FT	2586 FT
9.625 IN	2586 FT	9470 FT

REMARKS

RUN 1 TRIP 1: HDIL ZDL CN RAN IN COMBINATION

BVOL CVOL CALCULATED IN CUBIC FT
CVOL CALCULATED USING PROPOSED 4.5" CASING
CALIPER VERIFIED INSIDE CASING

RHO MATRIX: 2.68 G/CC
RHO FLUID: 1.00 G/CC

CN MATRIX: SANDSTONE
CN RAN DECENTRALIZED

HDIL RAN WITH 1.5" STANDOFFS

ABC TO CALCULATE MUD CONDUCTIVITY

THANK YOU FOR CHOOSING BAKER HUGHES WIRELINE SERVICES
CREW: OLSON/COATE/QUIGLEY
RIG: NABORS 573

BRIDGED AT 9470' AND LOGGED OUT
VERY RUGOSE BOREHOLE CONDITIONS AFFECTED ZDL/CN WALL CONTACT AND DATA QUALITY

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	SWIVEL	3950XA	10102176	FREE
1	1	TTMA	3980XA	10120299	FREE
1	1	TEL/GR	3518EB/3518EG	10126400/10139870	DECENTRALIZED
1	1	CN	2436XA	10137930	DECENTRALIZED
1	1	ZDL	2223XA	10123024	DECENTRALIZED
1	1	KNUCKLE	3930XA	10087285	FREE
1	1	HDIL	1530XA	10118612	STOOD OFF

MAIN LOG 2"/100FT SCALE

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
Updates: 1 Patches: 2

Plotted: Sat Sep 13 08:23:30 2014

PARAMETER AND FILTER SUMMARY REPORT

File: /dat1a/90086J/n970a04.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 2480.250 ft BOTTOM DEPTH: 4597.310 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR MED RES	FILTER ()	medium (1)		TOP	BOTTOM
CALIPER	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
SP-SPDH	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
BIT SIZE	BIT SIZE	8.750	in	TOP	BOTTOM
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	8.750	in	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	66.9	degF	"	"
	MUD SAMPLE RES	1.140	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	66.9	degF	"	"
	at BH REF DEPTH	0.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"

ACCELERATION PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION ON		TOP	BOTTOM

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
HDIL TEMPERATURE CORRECTION	TEMP CORRECTION	ON		TOP	BOTTOM

ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	MUD CONDUCTIVITY		"	"
	STANDOFF	1.50	in	"	"
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000		"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:GR	Sep 13 05:51:18 2014	GAMMA RAY
F1:M0C6	Sep 13 05:51:18 2014	FOCUSED CONDUCTIVITY, 60-INCH DOI
F1:M0R2	Sep 13 05:51:18 2014	TRUE FOCUSED RESISTIVITY FOR HDIL, 20-INCH DOI
F1:M0R6	Sep 13 05:51:18 2014	TRUE FOCUSED RESISTIVITY FOR HDIL, 60-INCH DOI
F1:SP	Sep 13 05:51:18 2014	SPONTANEOUS POTENTIAL
F1:TEN	Sep 13 05:51:18 2014	DIFFERENTIAL TENSION

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
GR	35.00	M0R2	2.75	SP	1.25		
M0C6	2.75	M0R6	2.75	TEN	0.00		

Presentation : cas6685:/dat1a/90086J/WPX_2IN.fvpdf [2"/100' Scale]
Plot Interval : 10.5 - 9493.75 Feet

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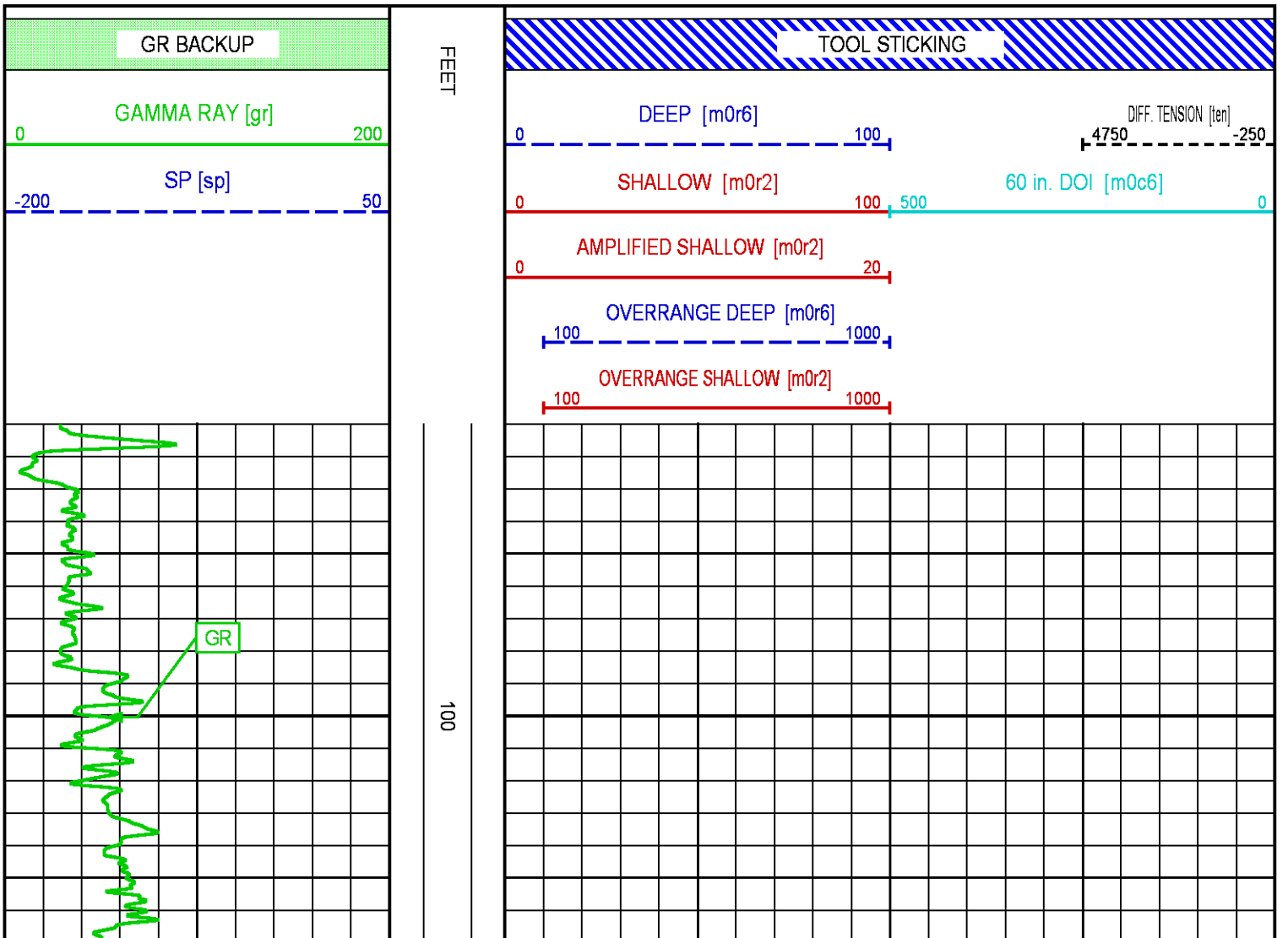
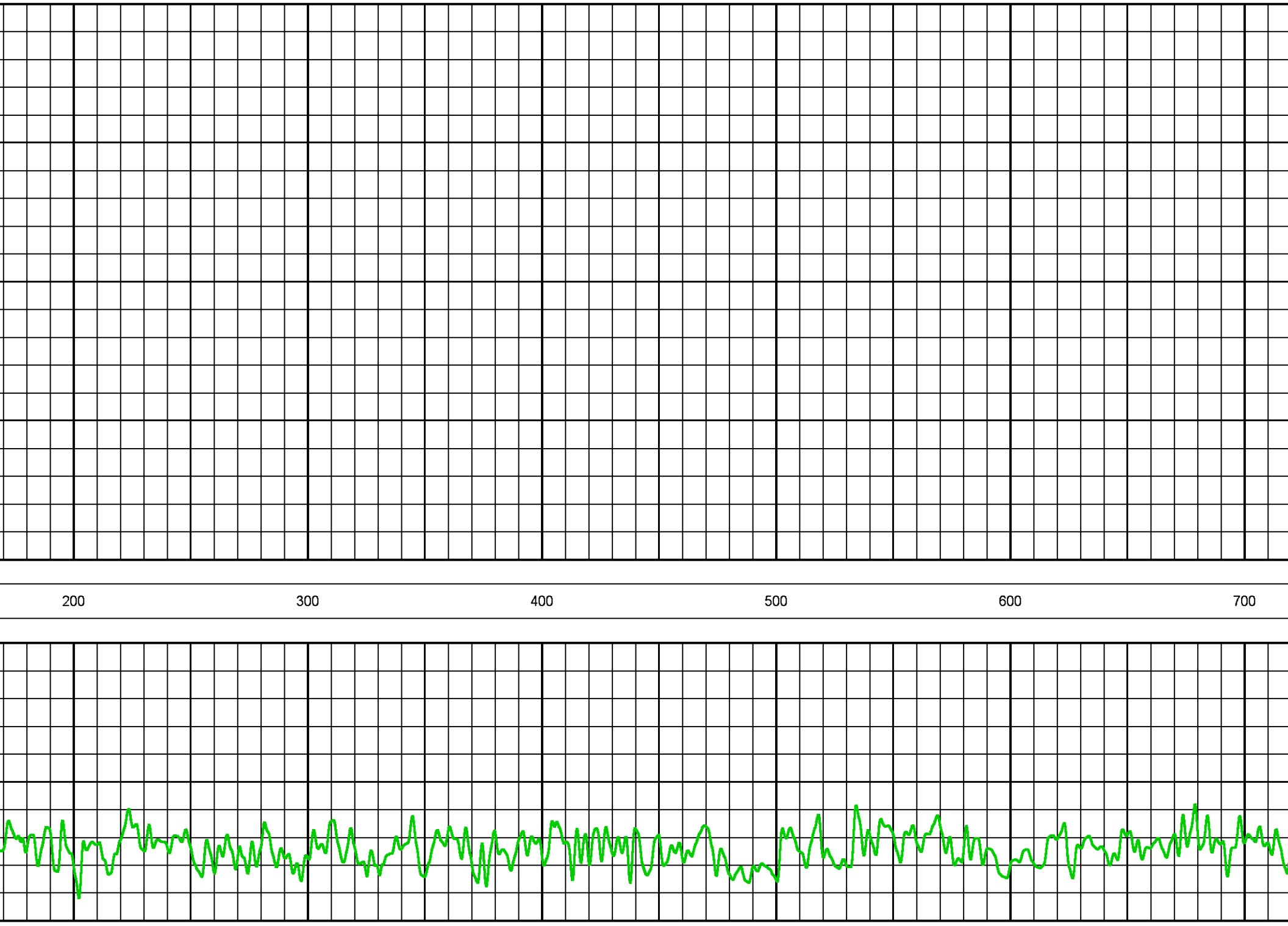
Created On : Sep 13 08:06:22 2014
Company : WPX ENERGY INC
Well : AP 523-17-695
Field : PARACHUTE
File Interval : 10.5 - 9493.75 Feet
OCT : n970a

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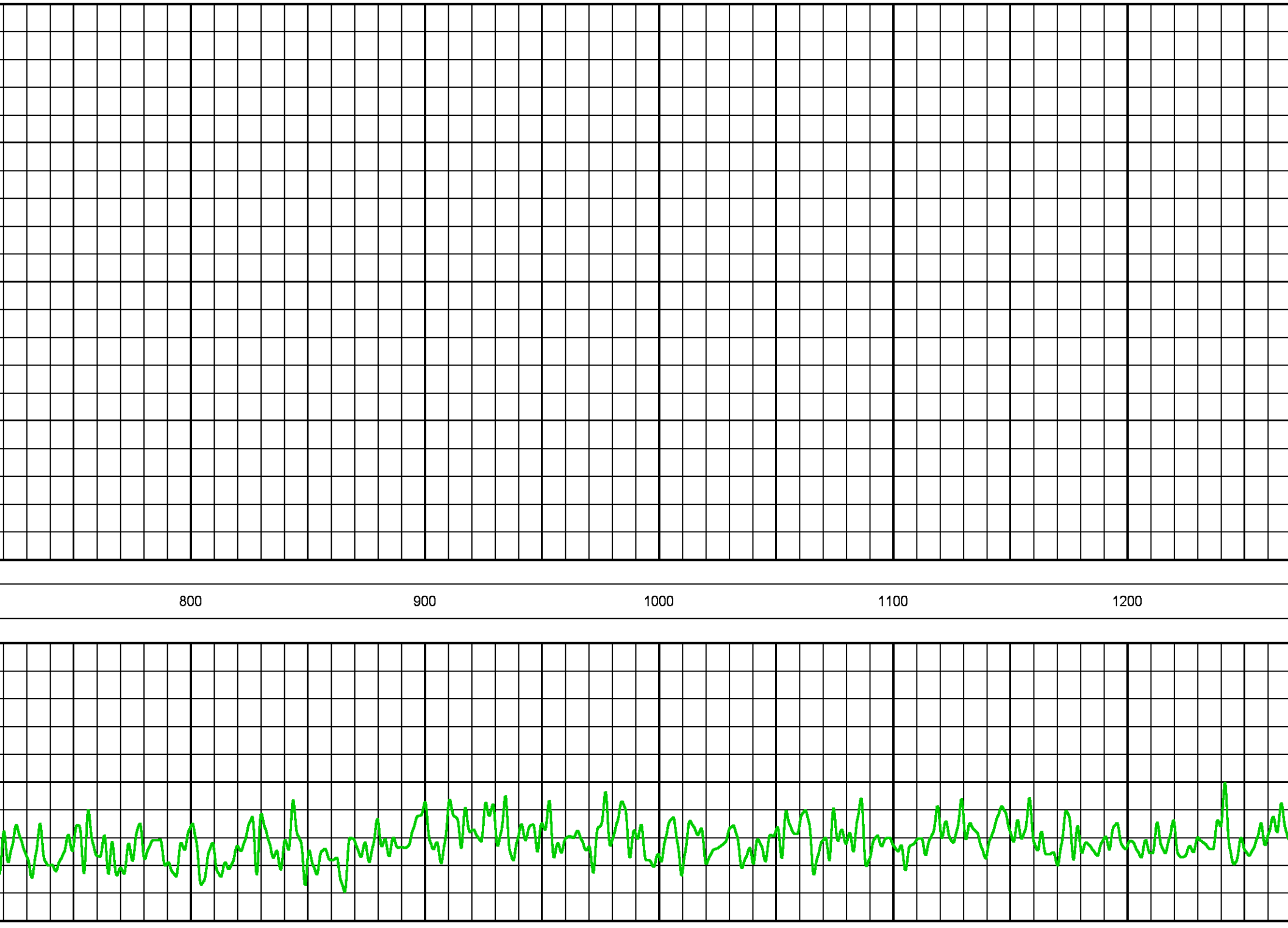
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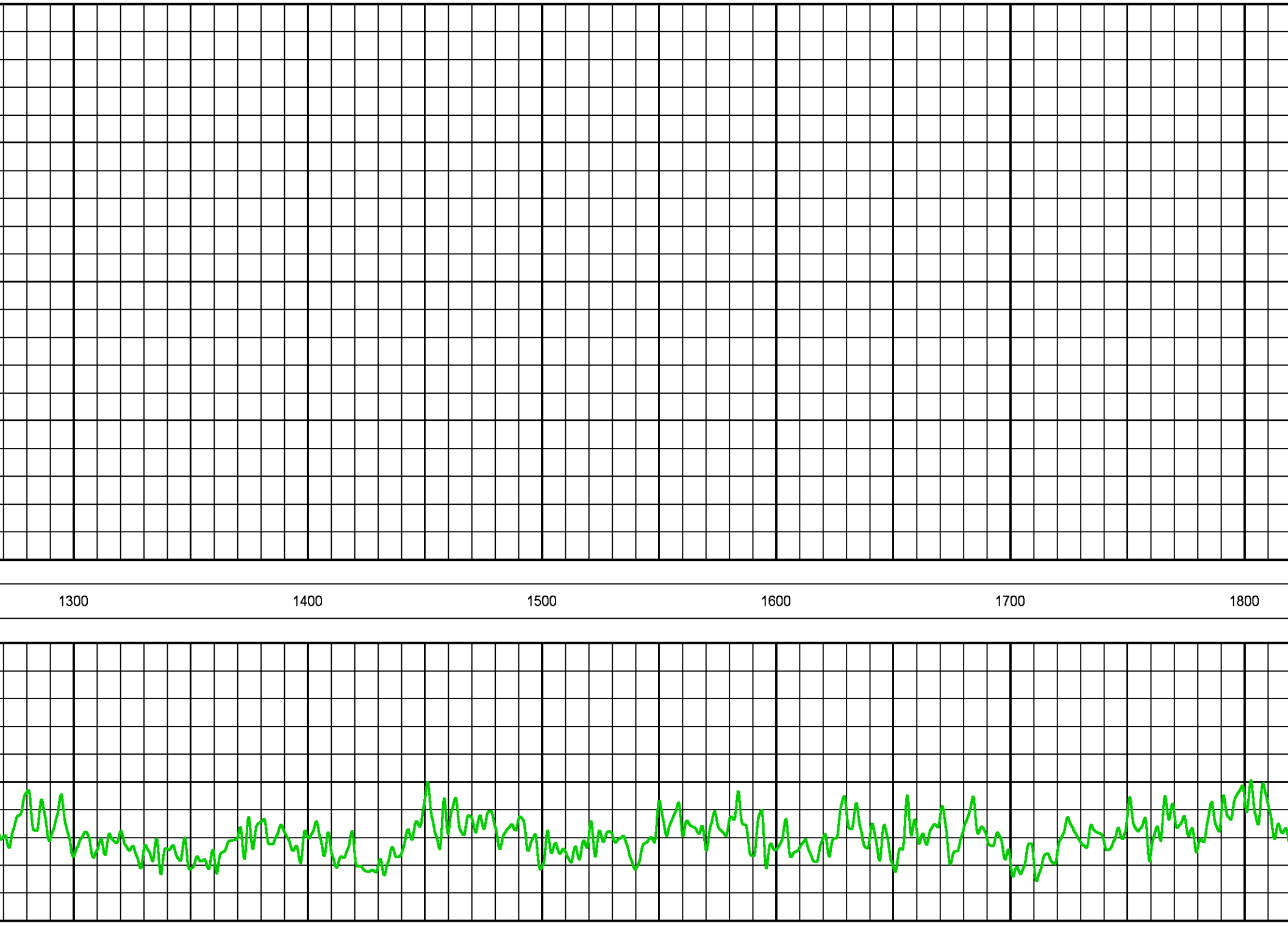
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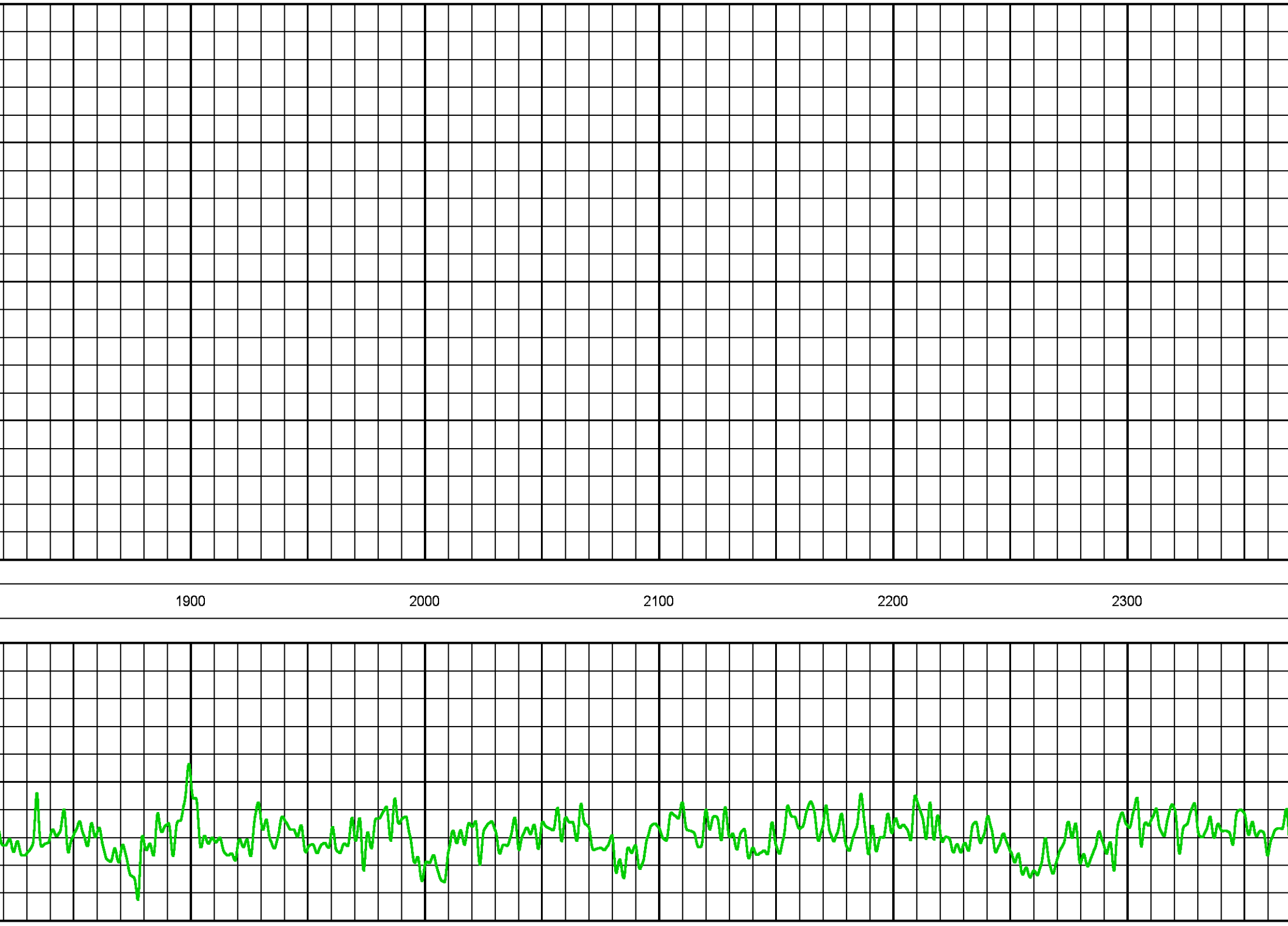
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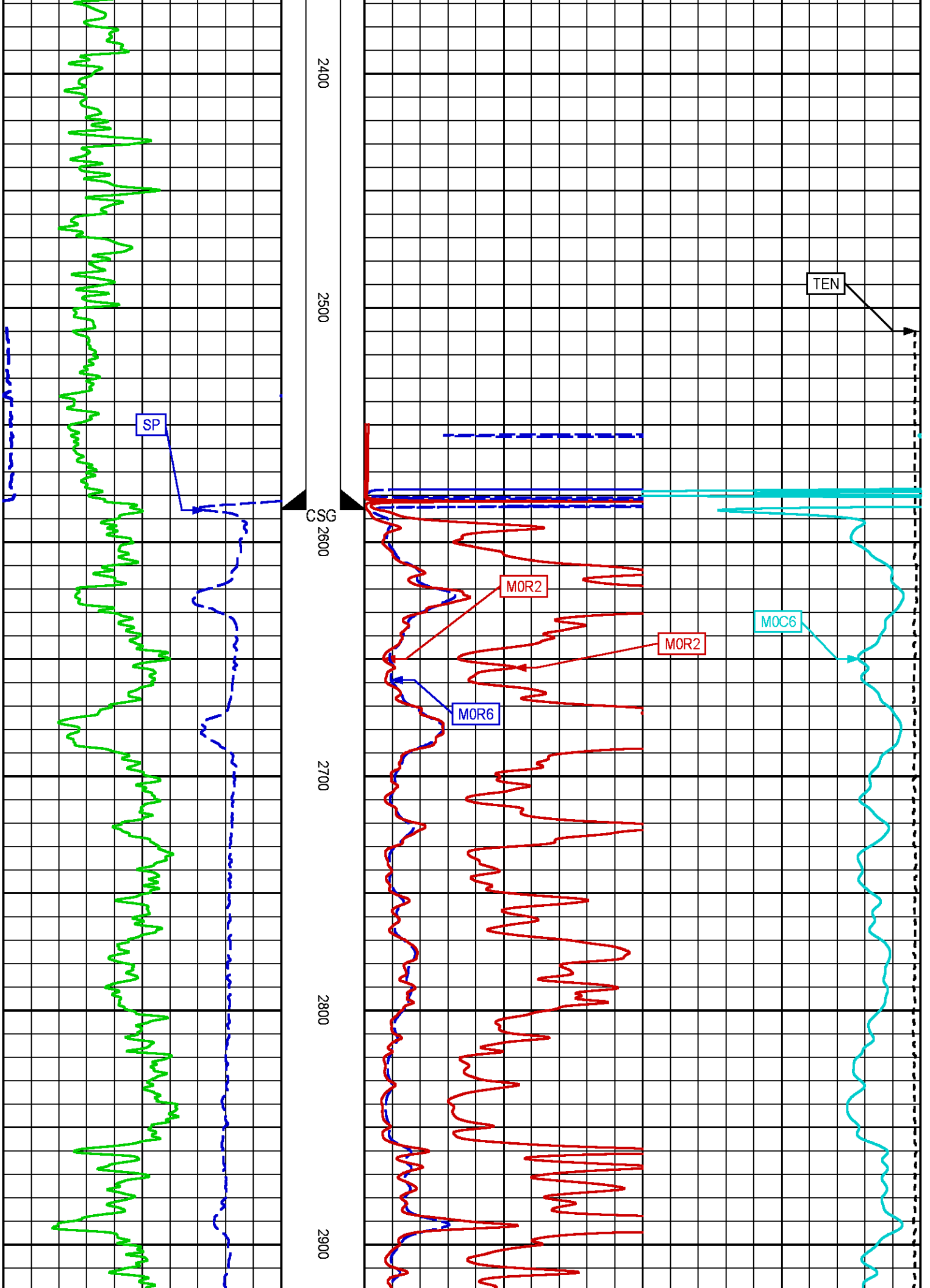
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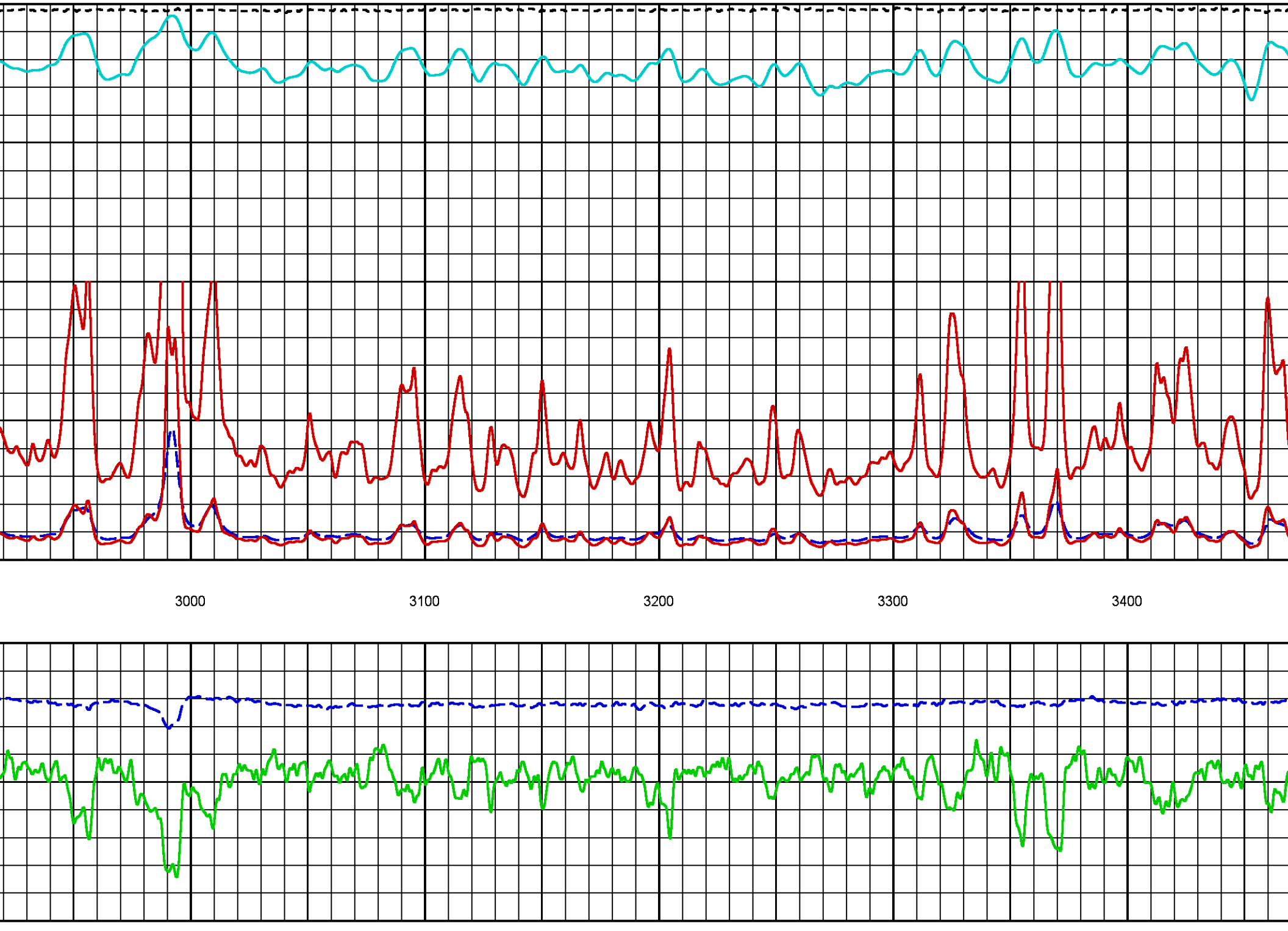
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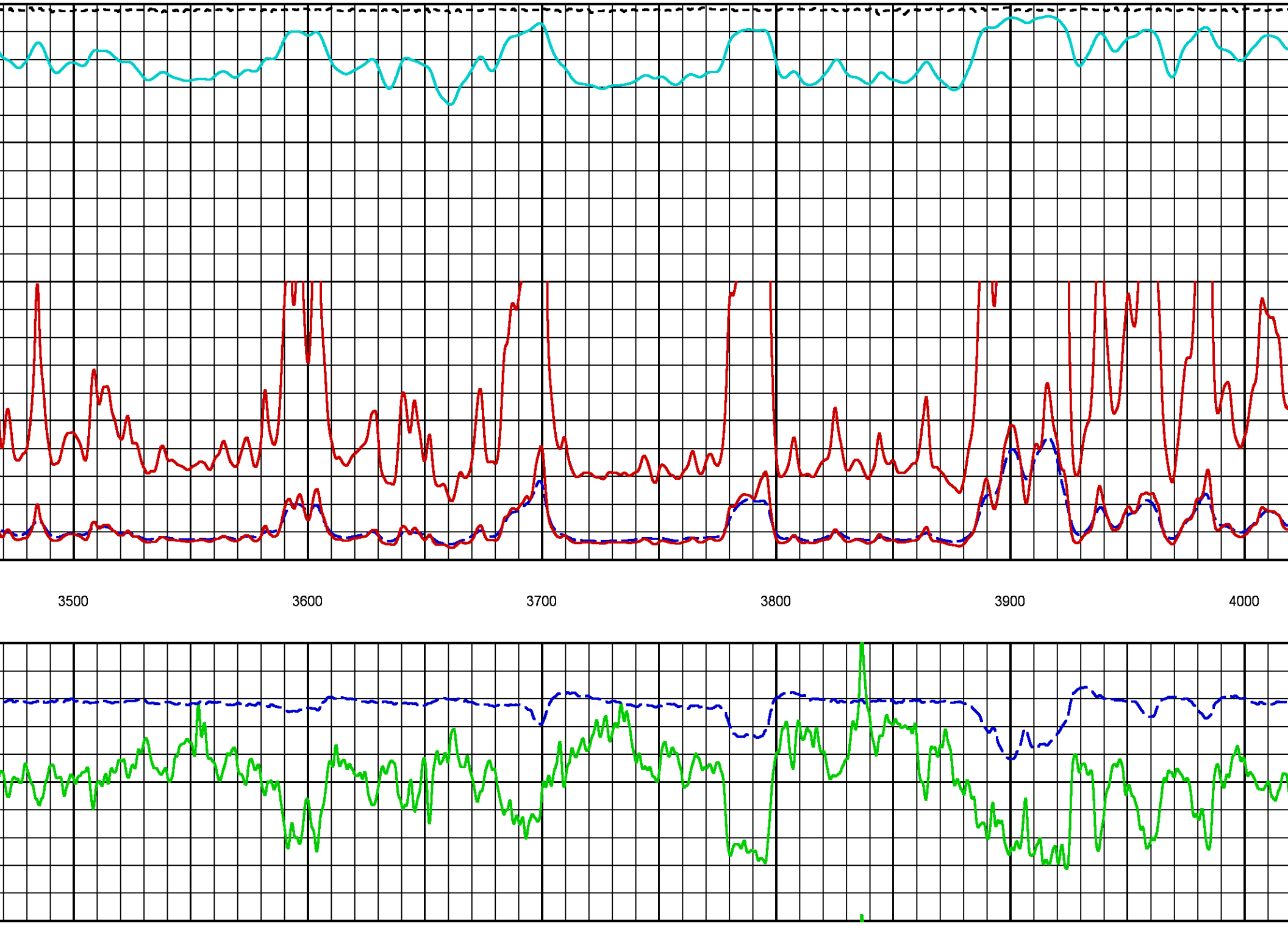
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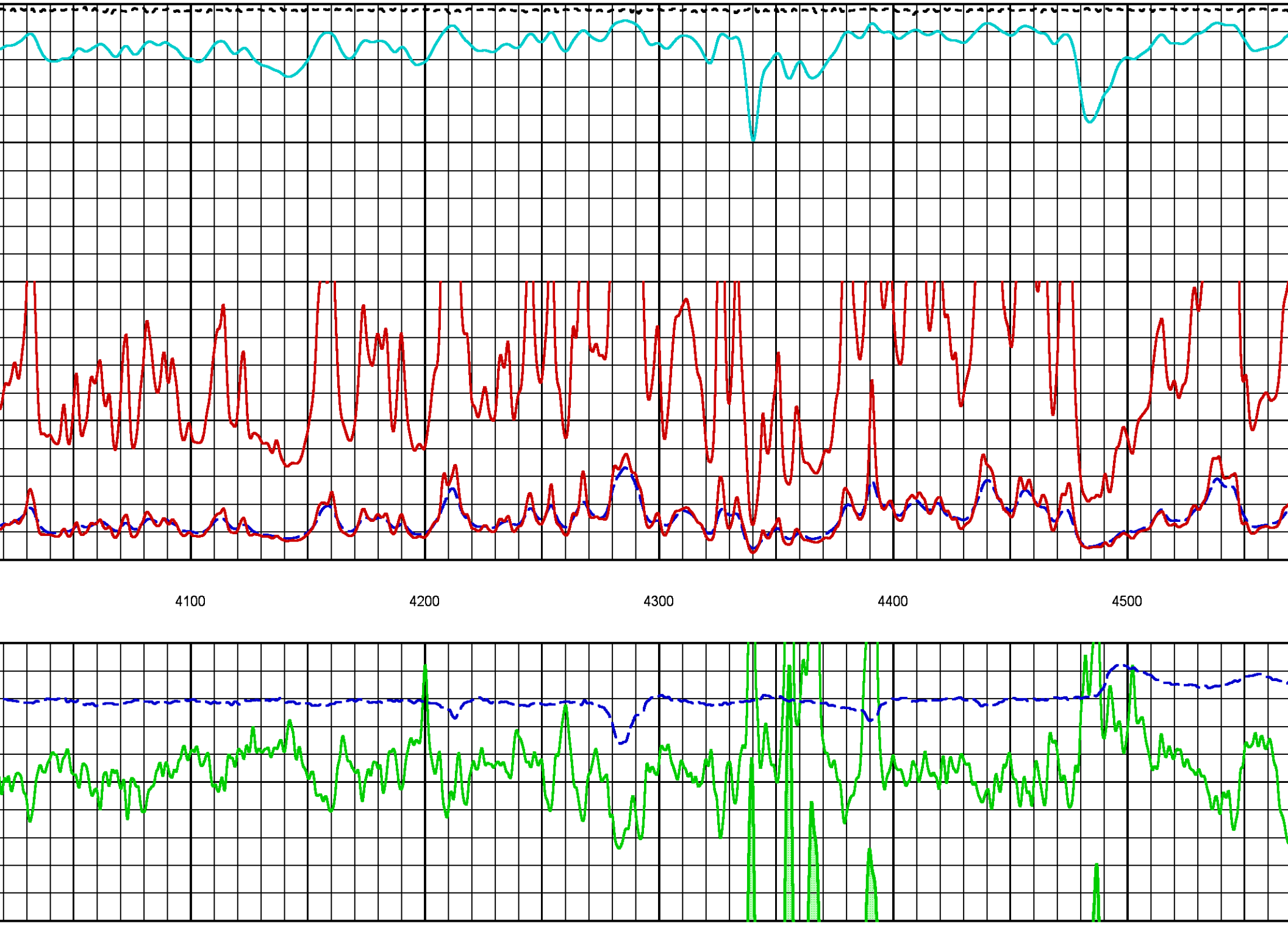
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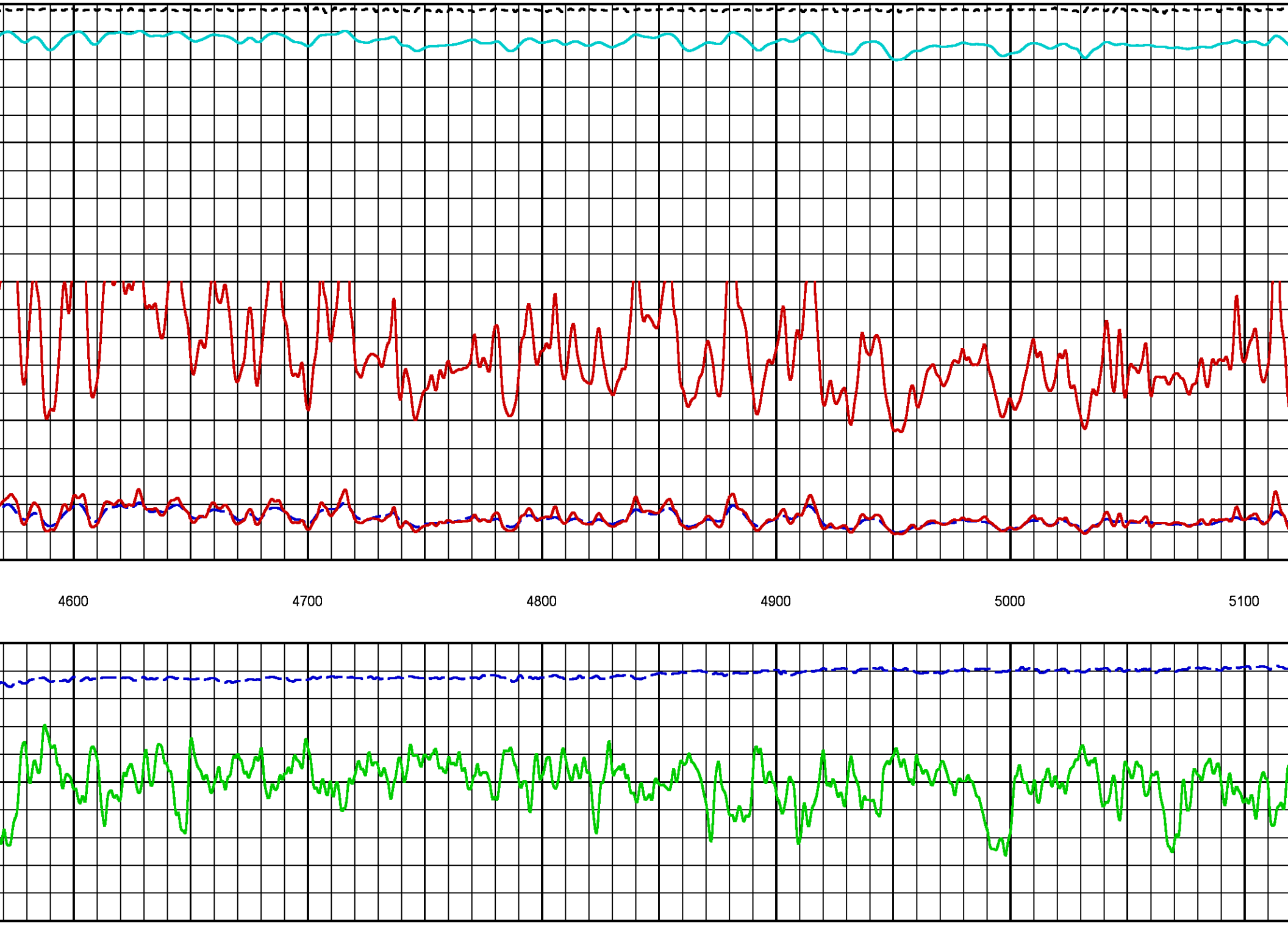
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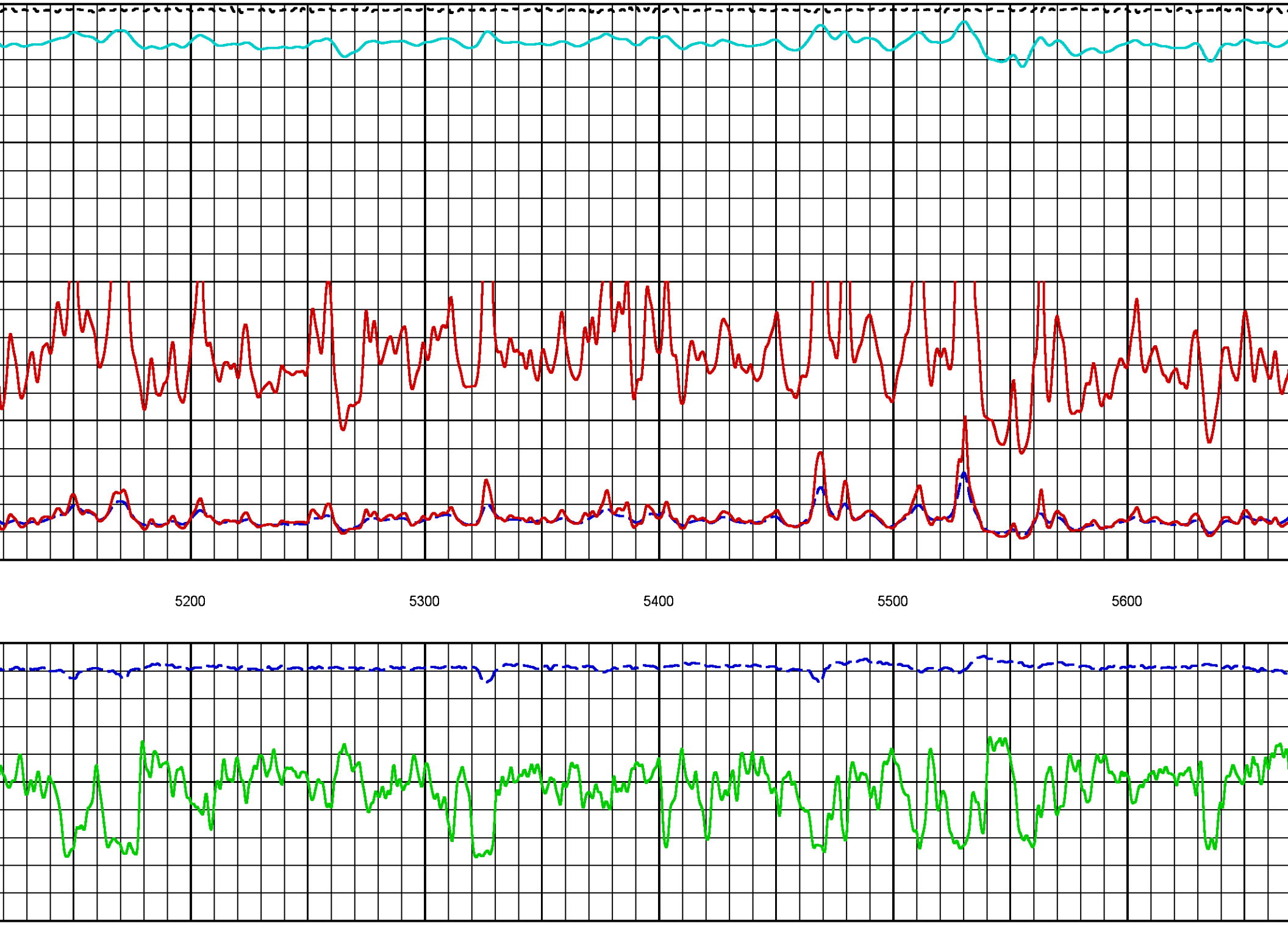
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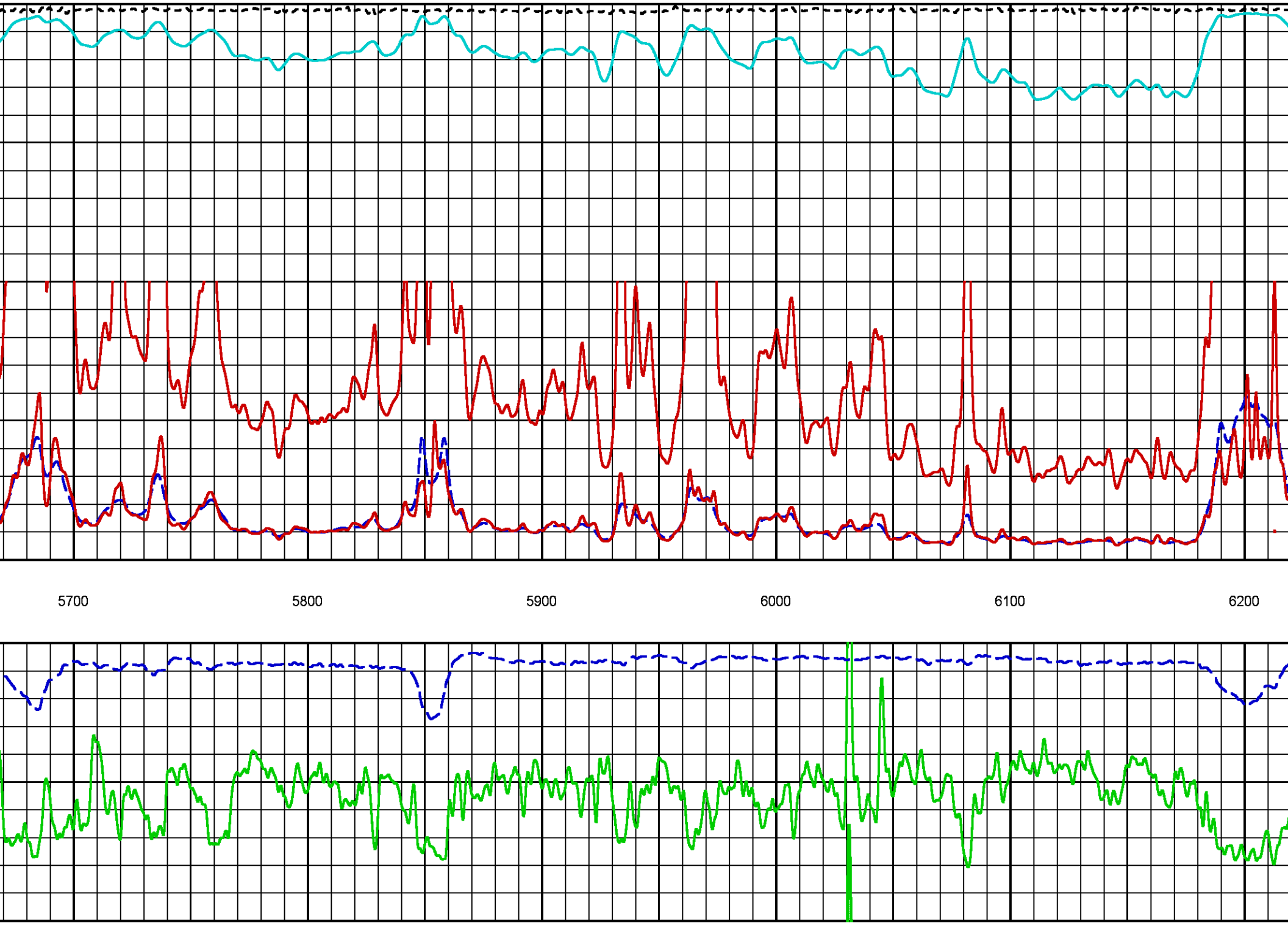
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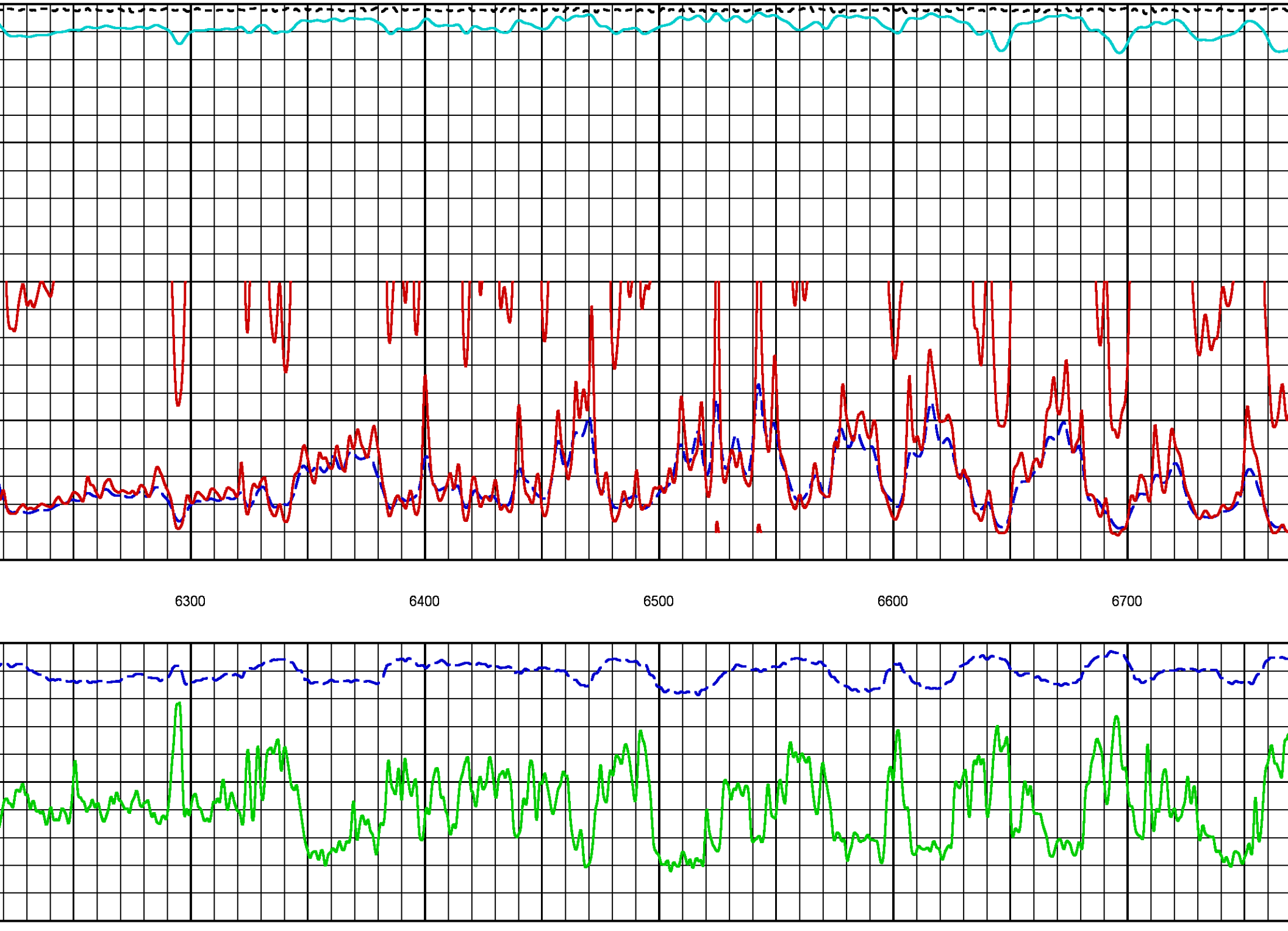
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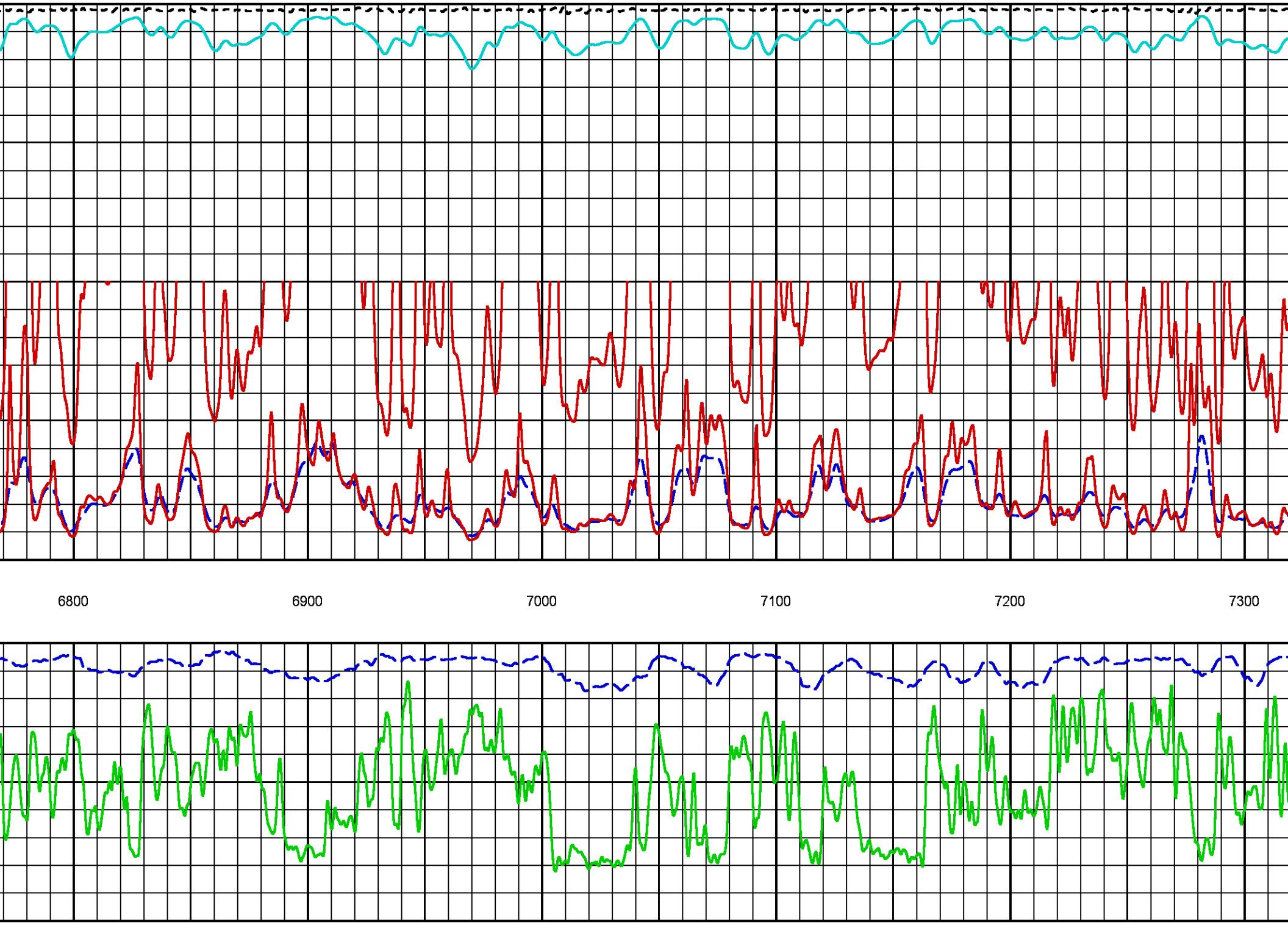
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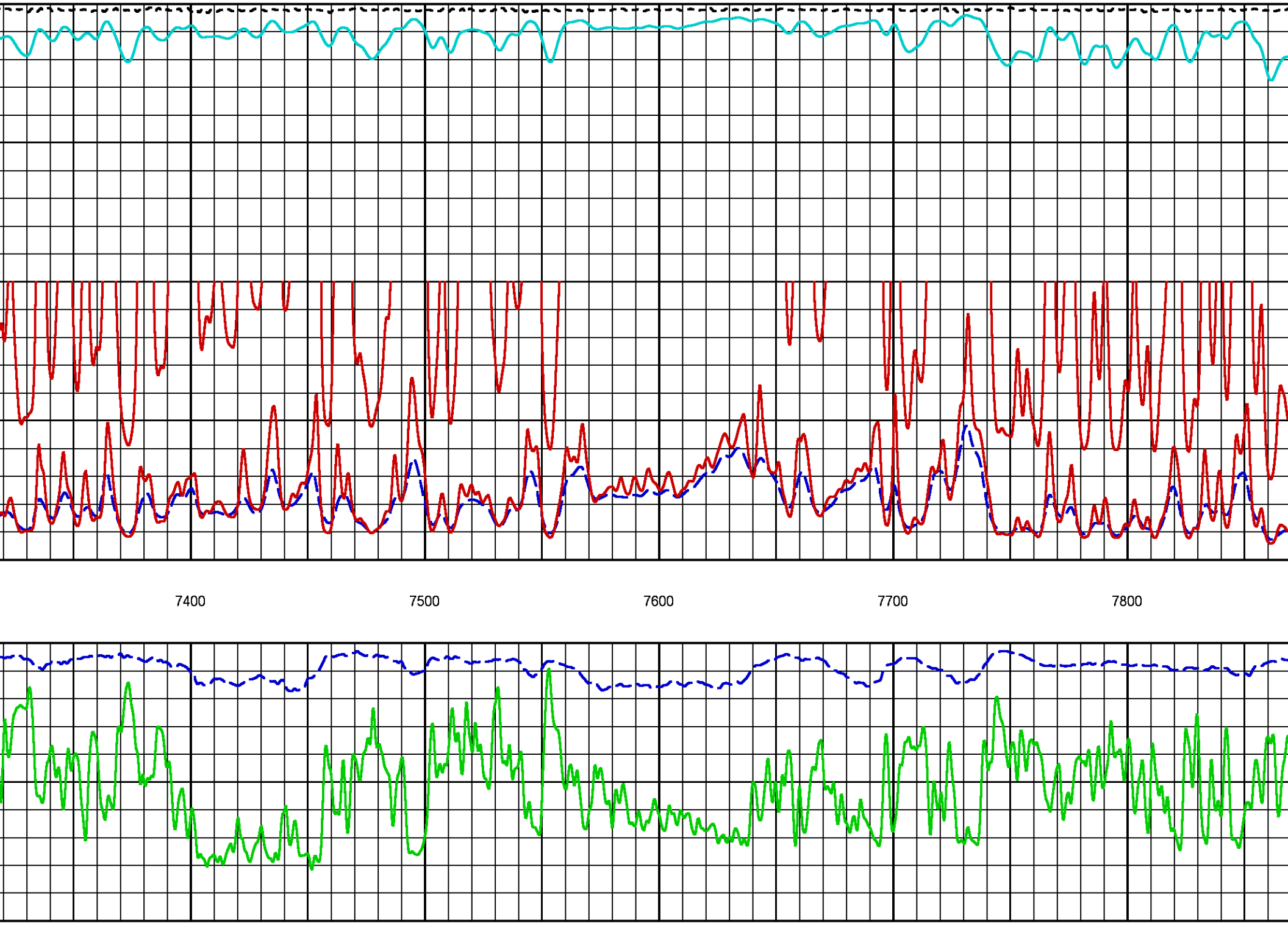
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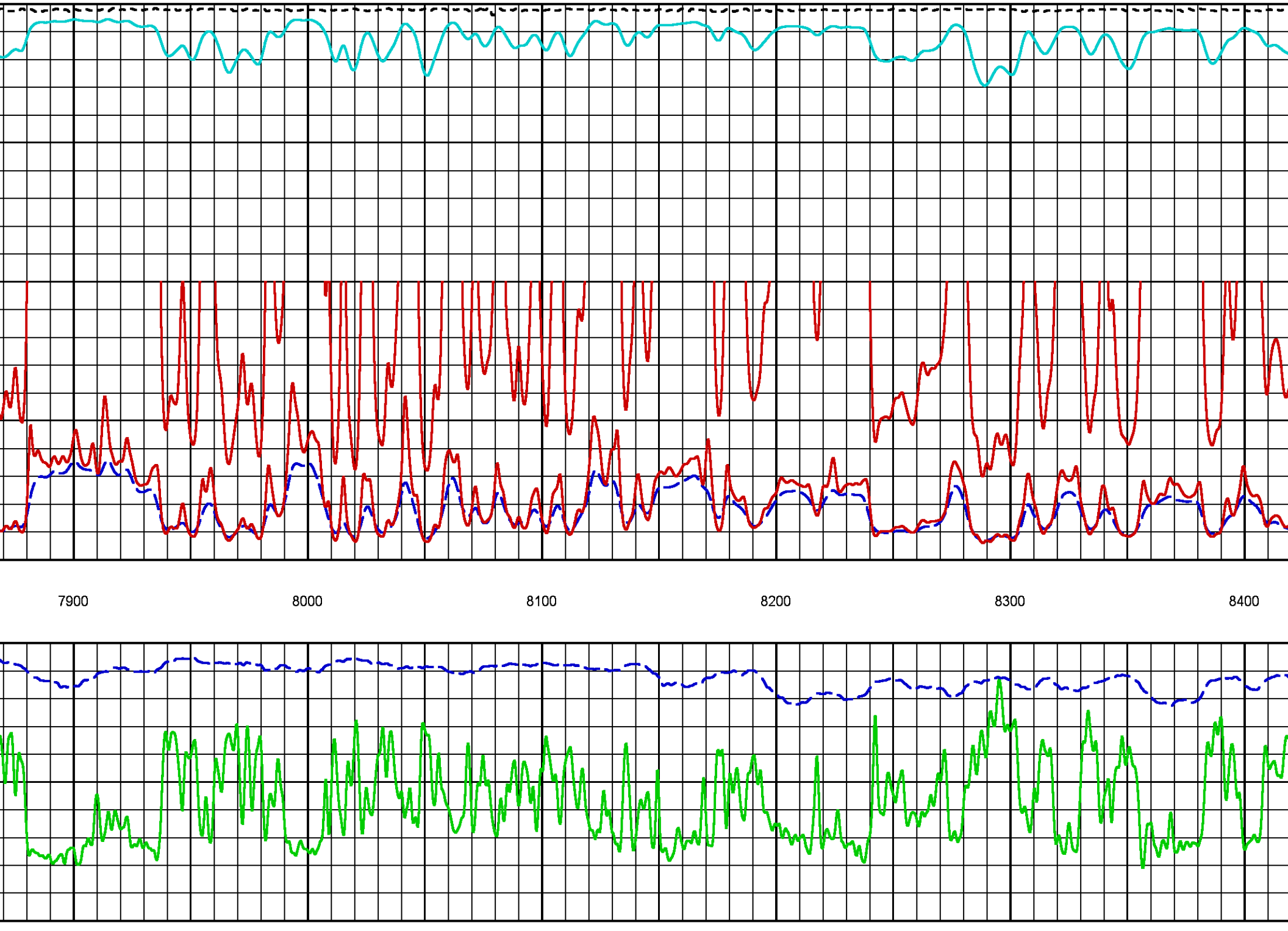
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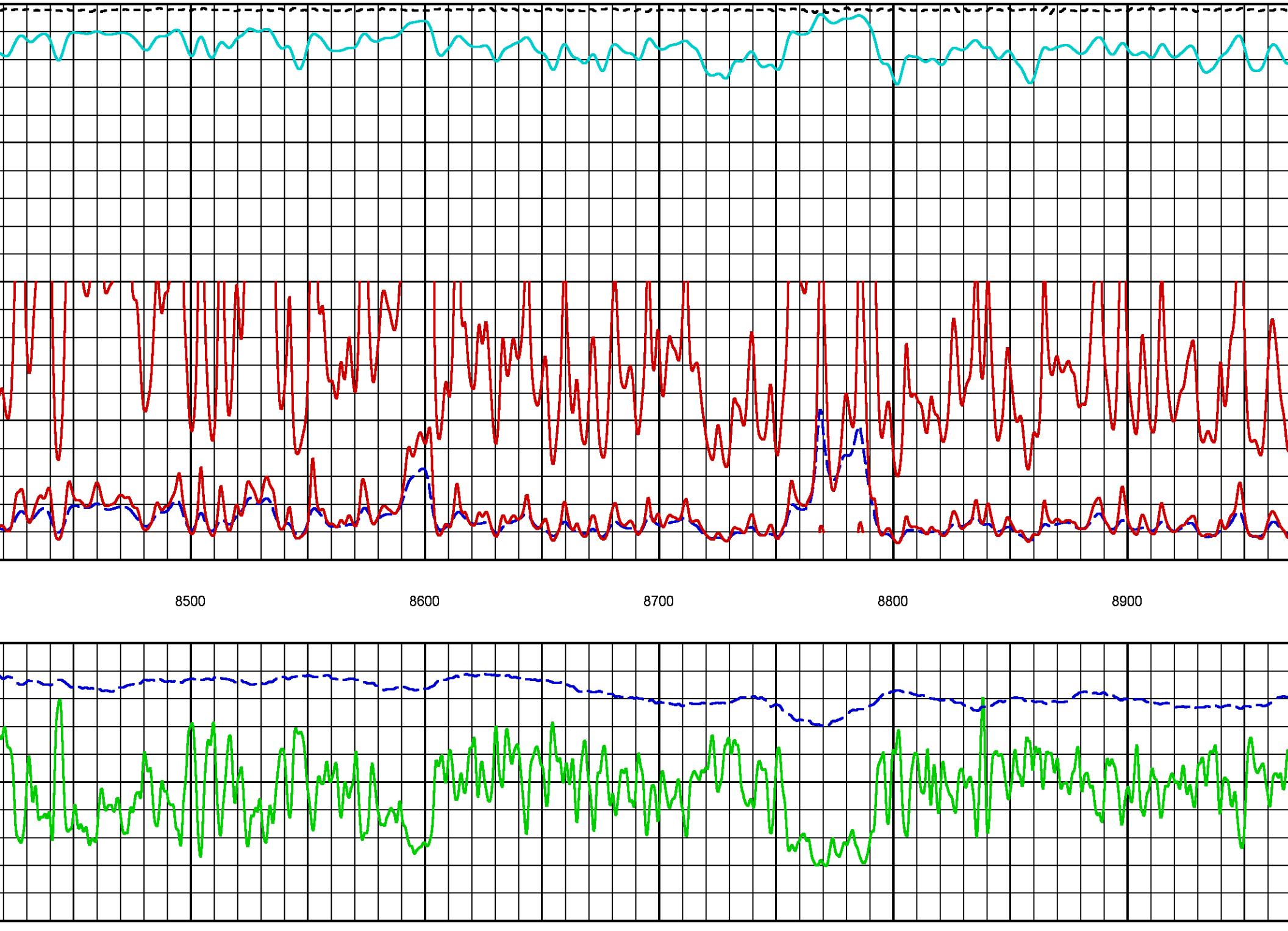
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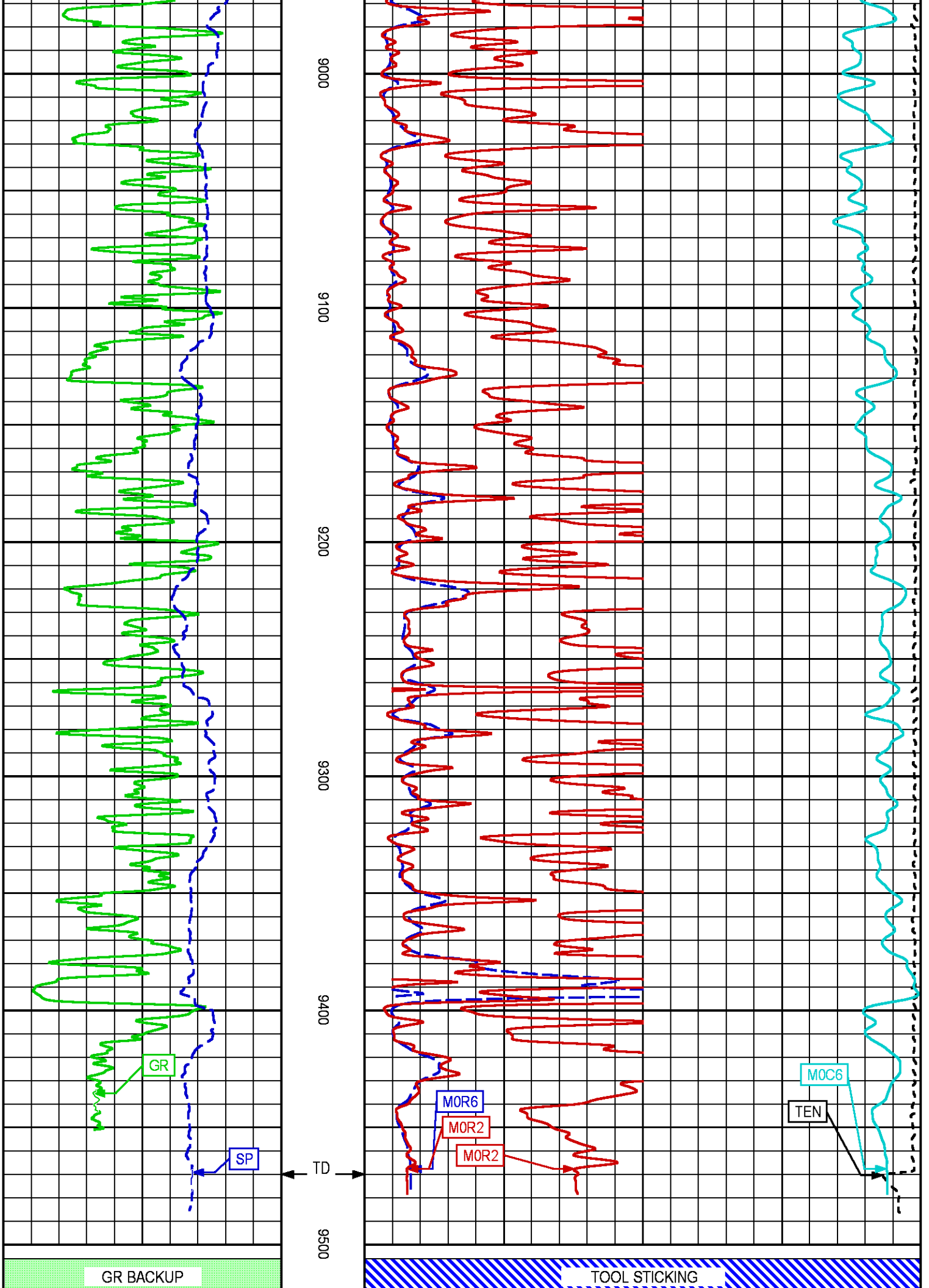
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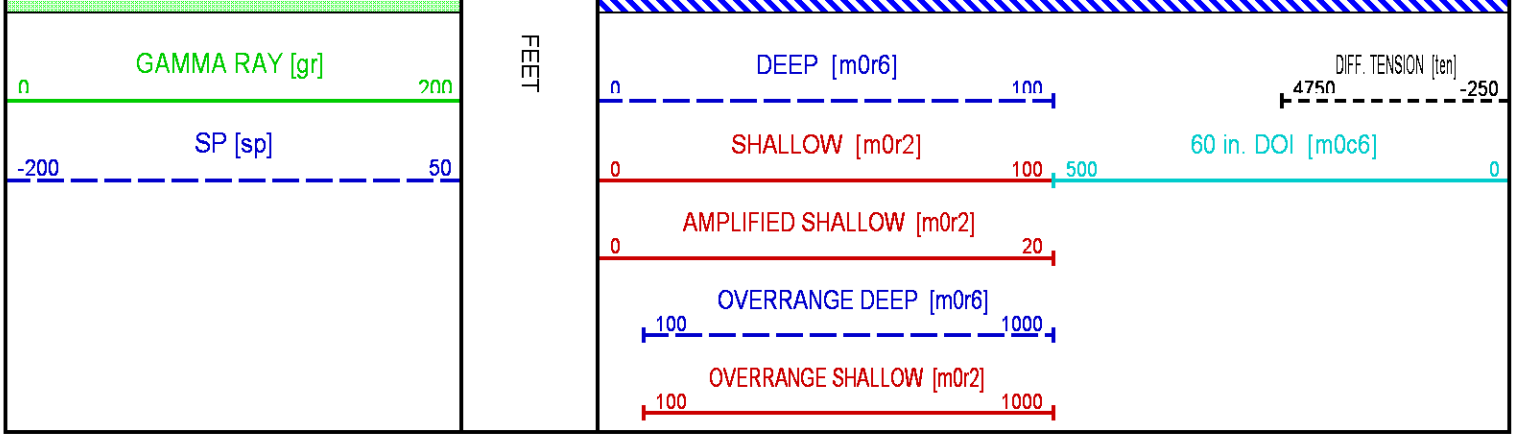
GR BACKUP
TOOL STICKING



MAIN LOG 5"/100FT SCALE

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
Updates: 1 Patches: 2

Plotted: Sat Sep 13 08:15:55 2014

PARAMETER AND FILTER SUMMARY REPORT

File: /dat1a/90086J/n970a04.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 2480.250 ft BOTTOM DEPTH: 4597.310 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft) TOP	BOTTOM
GR MED RES	FILTER ()	medium (1)		TOP	BOTTOM
CALIPER	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
CN MED RES	FILTER ()	medium (1)		"	"
ZDL MED RES	FILTER (hrd1*)	medium		"	"
	FILTER (hrd1s*)	medium		"	"
	FILTER (hrd2*)	medium		"	"
	FILTER (hrd2s*)	medium		"	"
	FILTER (soft*)	medium		"	"
SP-SPDH	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft) TOP	BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	4.500	in	TOP	BOTTOM
	CASING THICKNESS	0.000	in	"	"
BIT SIZE	BIT SIZE	8.750	in	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		"	"
	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	8.750	in	"	"
	FIXED DIAMETER (mbh*)	8.750	in	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	66.9	degF	"	"
	MUD SAMPLE RES	1.140	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	66.9	degF	"	"
	at BH REF DEPTH	0.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"

ACCELERATION PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft) TOP	BOTTOM

ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION ON	TOP	BOTTOM

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CN MATRIX	2436 MATRIX	SANDSTONE		TOP	BOTTOM
CN BOREHOLE CORRECTION	SALINITY	1700	ppm	"	"
	BOREHOLE CORRECTION	ON		"	"
CN TOOL STANDOFF	ENABLE STANDOFF CORR	OFF		"	"
	STANDOFF AMOUNT	0.00	in	"	"
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE BEHIND CSNG	8.750	in	"	"

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
DENSITY POROSITY	Air Filled Borehole	NO		TOP	BOTTOM
	RHOmatrix	2.680	g/cm3	"	"
	RHOfluid	1.000	g/cm3	"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
HDIL TEMPERATURE CORRECTION	TEMP CORRECTION	ON		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	MUD CONDUCTIVITY		"	"
	STANDOFF	1.50	in	"	"
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000		"	"

CURVE DESCRIPTION REPORT

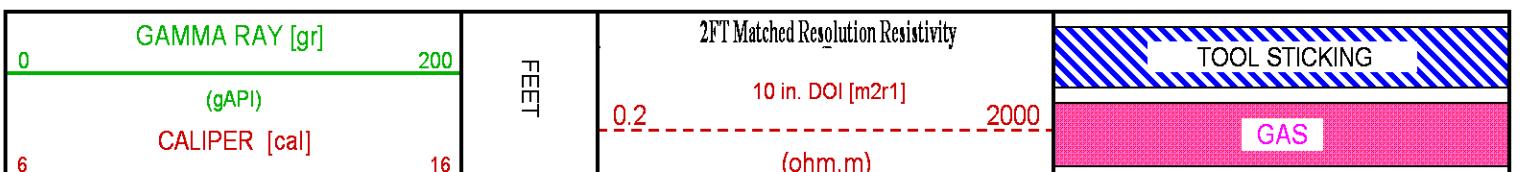
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Sep 13 05:51:18 2014	BIT SIZE
F1:BVOL	Sep 13 05:51:18 2014	BOREHOLE VOLUME
F1:CAL	Sep 13 05:51:18 2014	CALIPER
F1:CNCF	Sep 13 05:51:18 2014	FIELD NORMALIZED COMPENSATED NEUTRON POROSITY
F1:CVOL	Sep 13 05:51:18 2014	CEMENT VOLUME
F1:GR	Sep 13 05:51:18 2014	GAMMA RAY
F1:M2R1	Sep 13 05:51:18 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI
F1:M2R6	Sep 13 05:51:18 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	Sep 13 05:51:18 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:PE	Sep 13 05:51:18 2014	PHOTO ELECTRIC CROSS-SECTION
F1:PORZ	Sep 13 05:51:18 2014	POROSITY FOR SELECTABLE MATRIX
F1:SP	Sep 13 05:51:18 2014	SPONTANEOUS POTENTIAL
F1:TEN	Sep 13 05:51:18 2014	DIFFERENTIAL TENSION
F1:ZCOR	Sep 13 05:51:18 2014	DENSITY CORRECTION

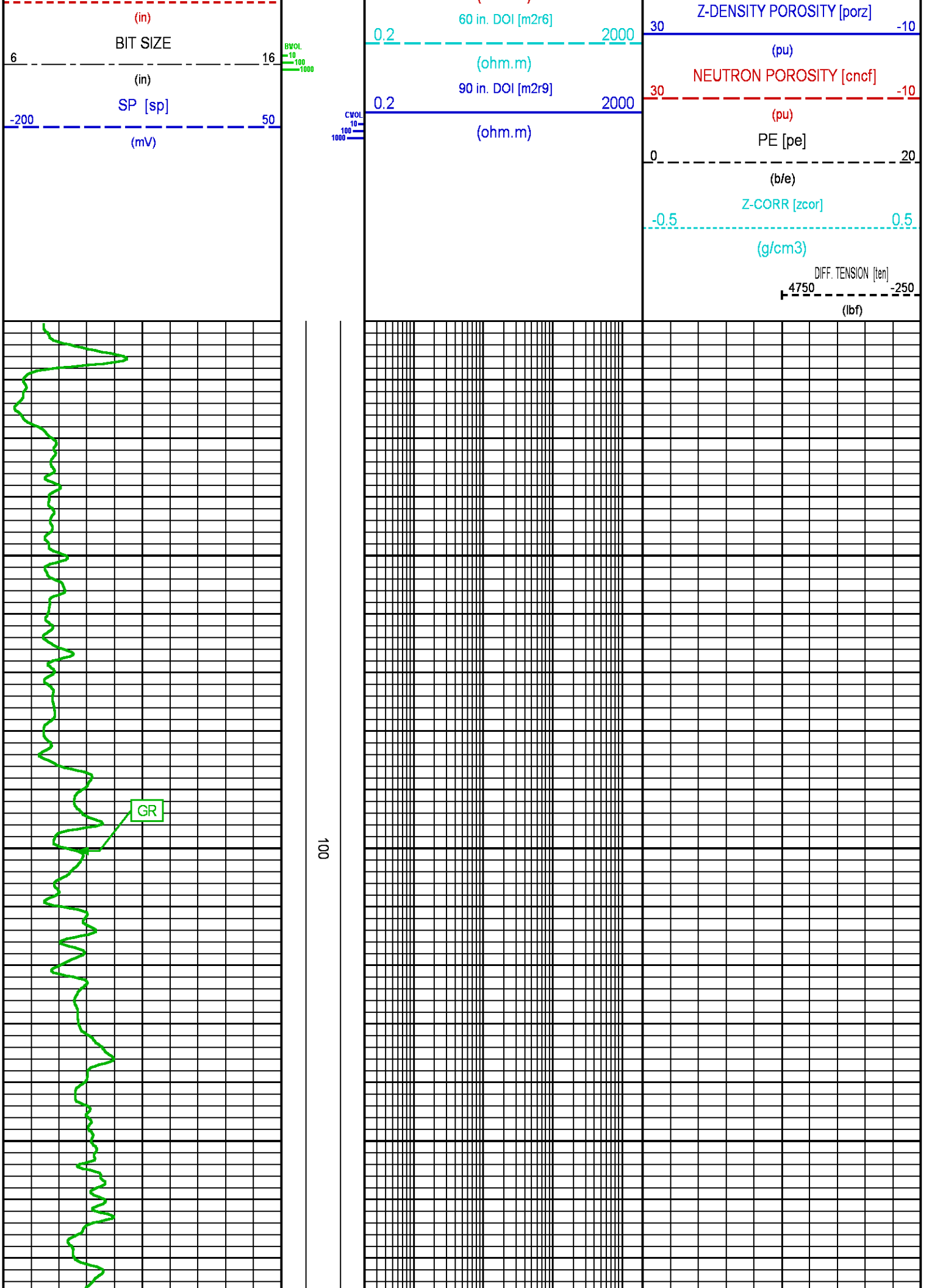
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
BIT	0.00	GR	35.00	M2R9	2.75	SP	1.25
CAL	18.12	M2R1	2.75	PE	18.00	TEN	0.00
CNCF	27.38	M2R6	2.75	PORZ	18.00	ZCOR	18.00

Presentation : cas6685:/dat1a/90086J/WPX_MAIN.fvpdf [5"/100' Scale]
Plot Interval : 10.5 - 9493.75 Feet

Data File 1 : F1 : cas6685:/dat1a/90086J/n970aMAIN.xtf
Created On : Sep 13 08:06:22 2014
Company : WPX ENERGY INC
Well : AP 523-17-695
Field : PARACHUTE
File Interval : 10.5 - 9493.75 Feet
OCT : n970a

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CVOL
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(ohm.m)
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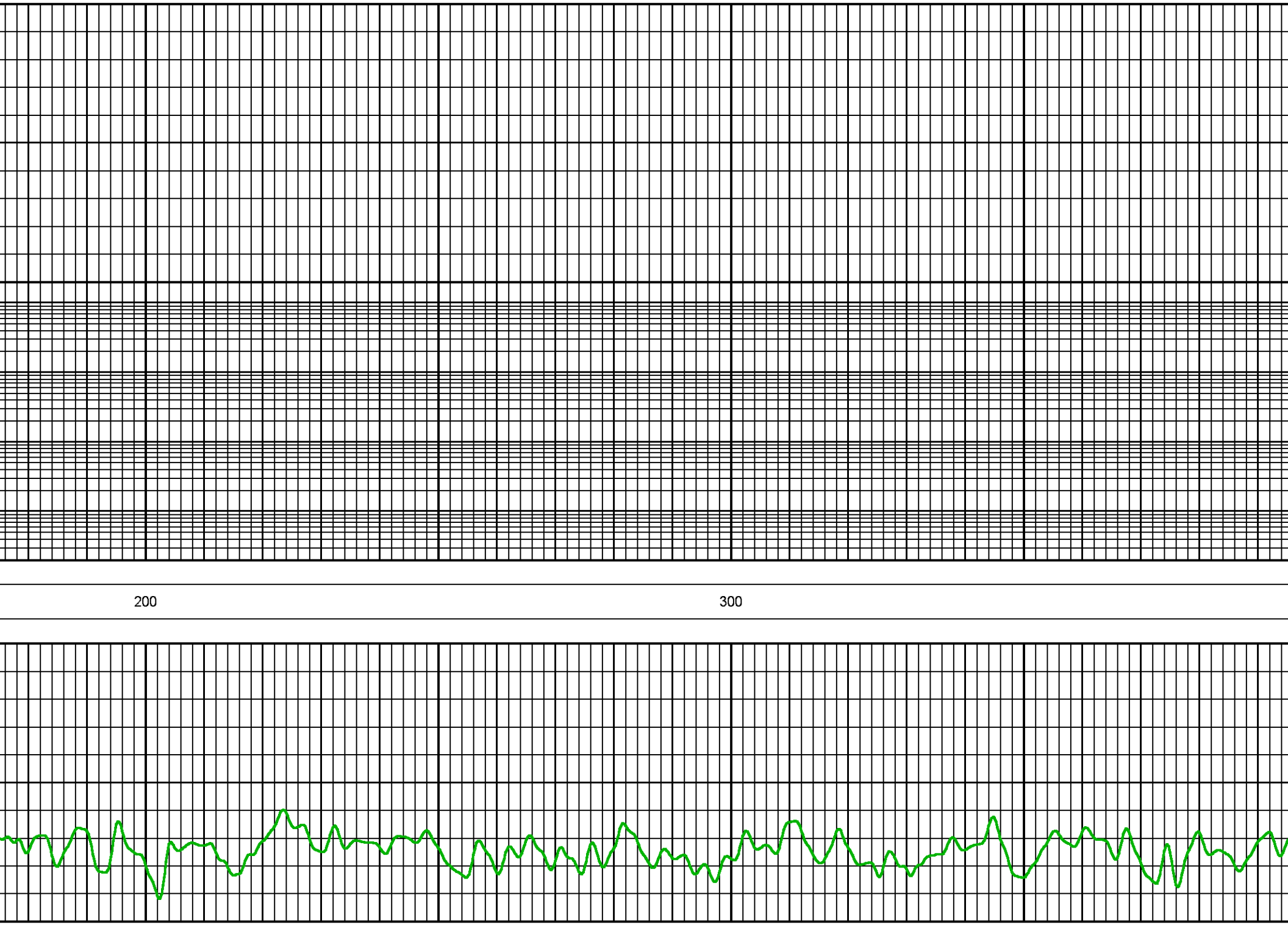
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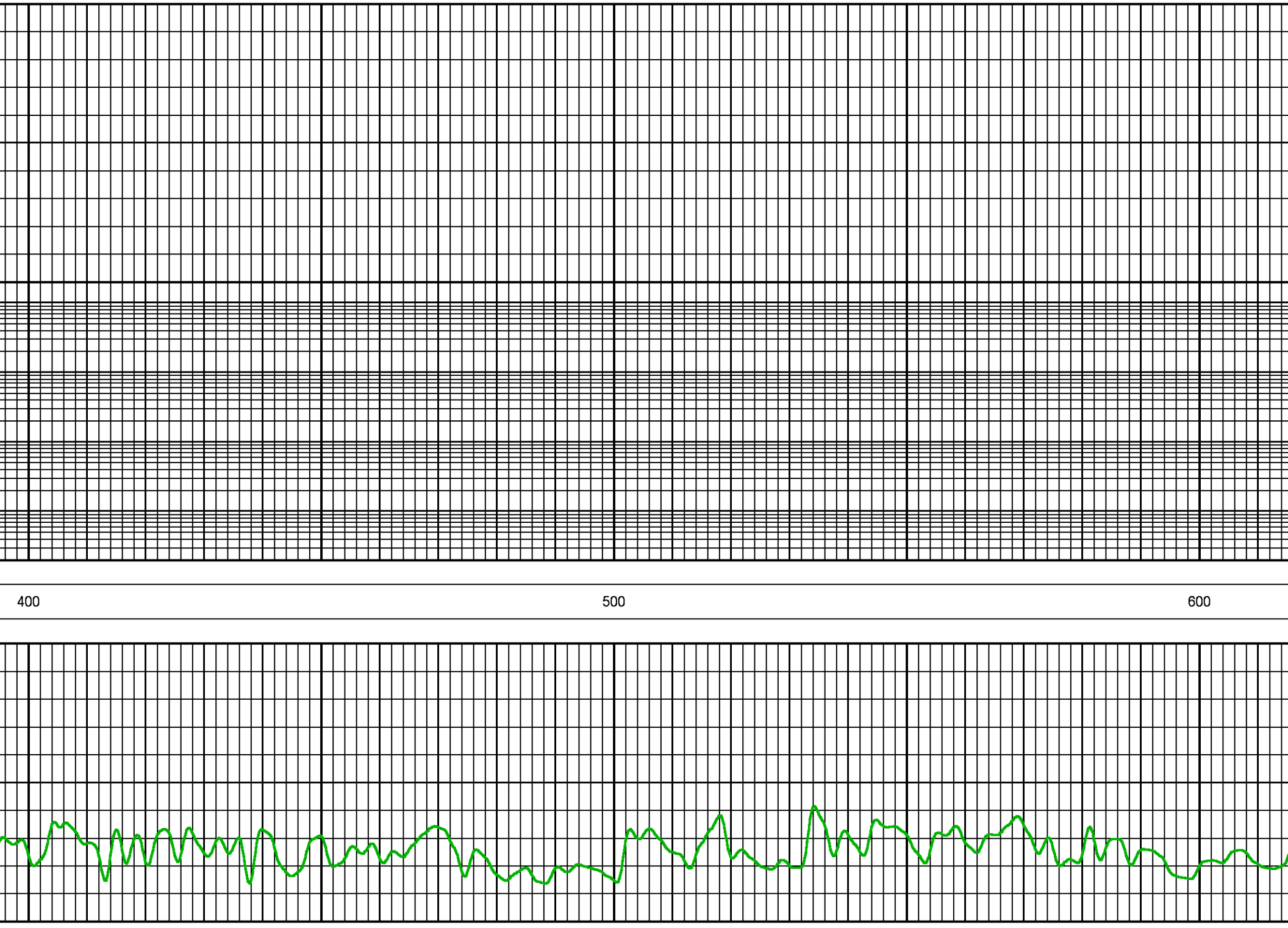
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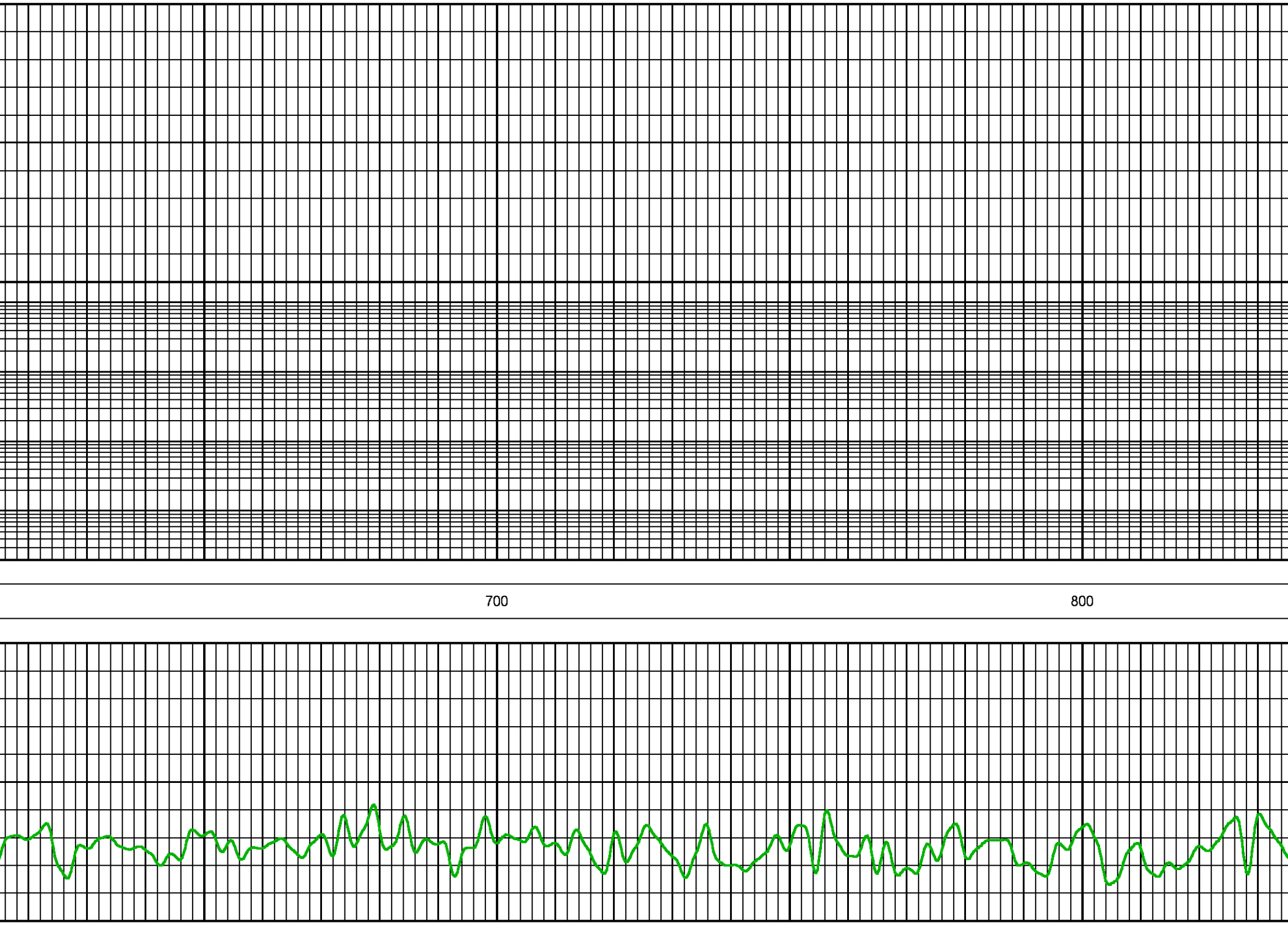
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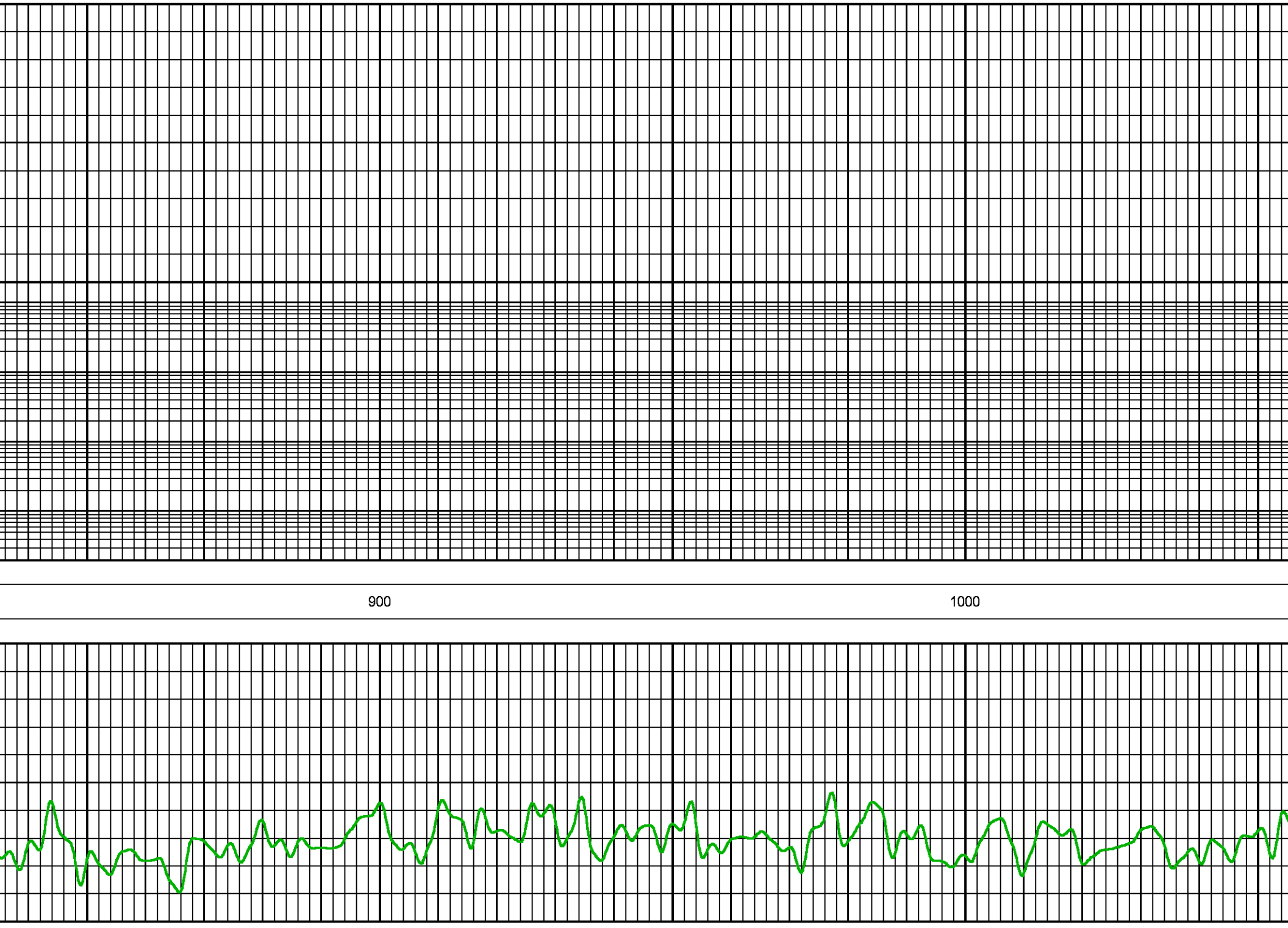
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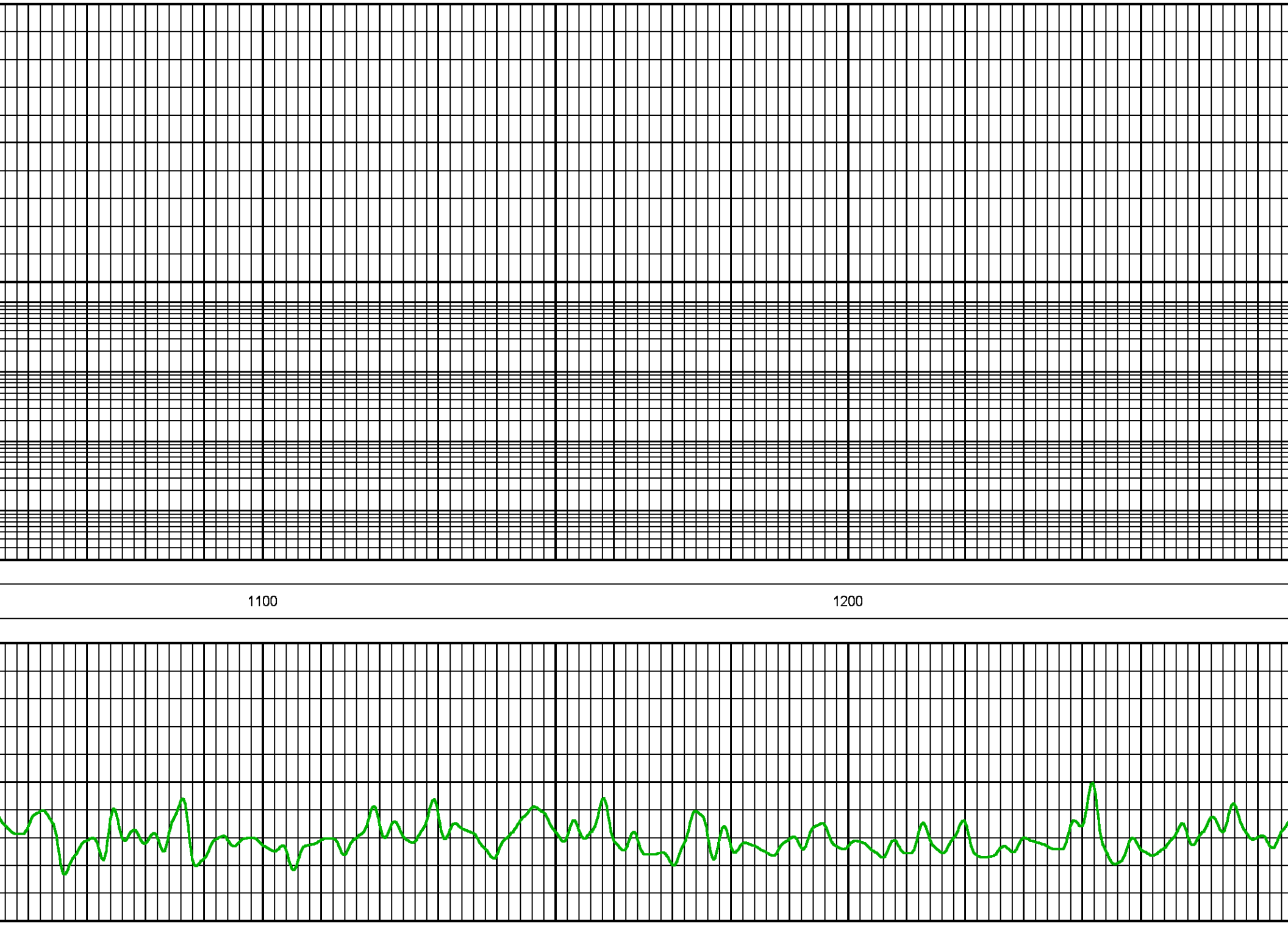
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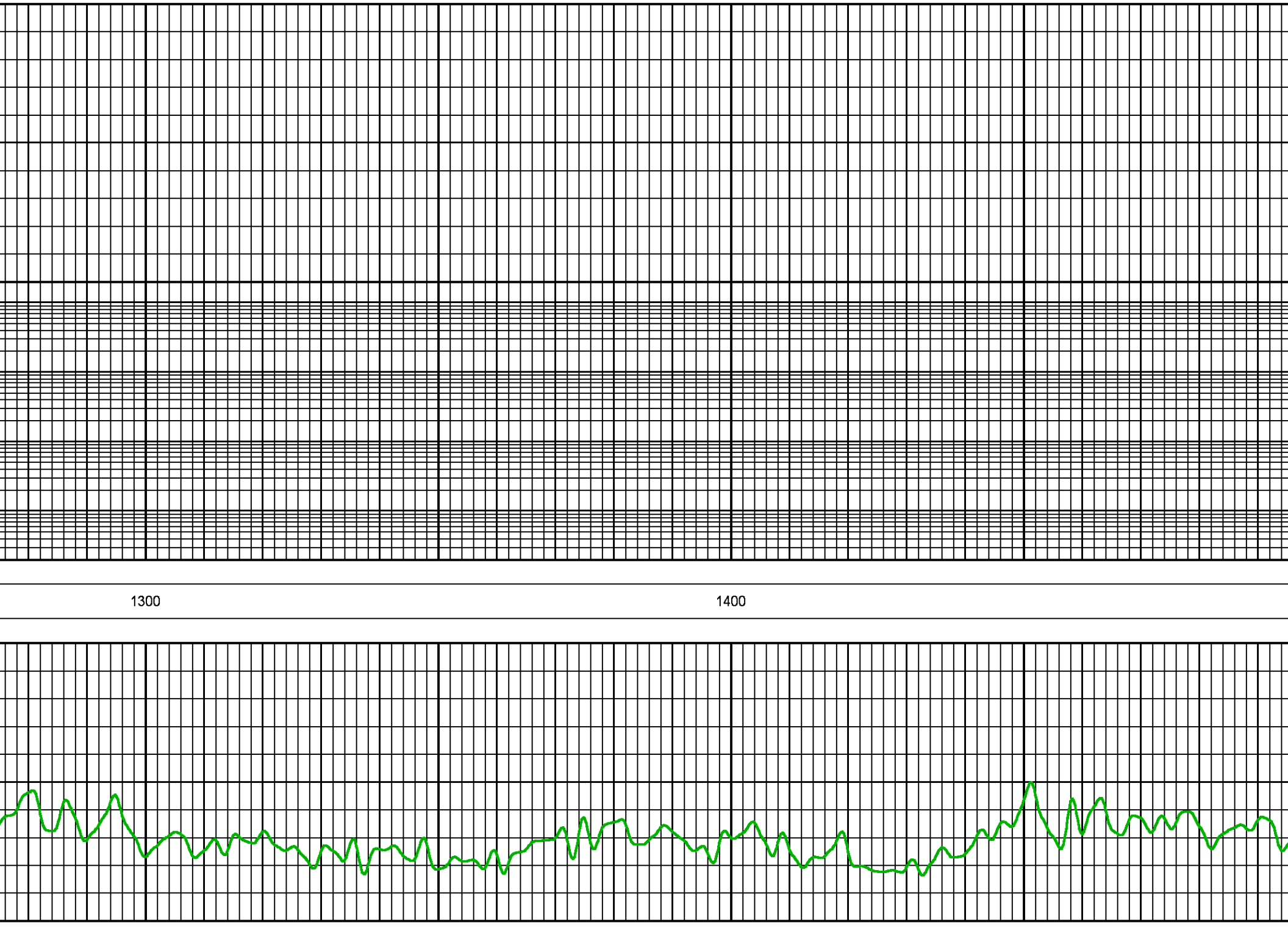
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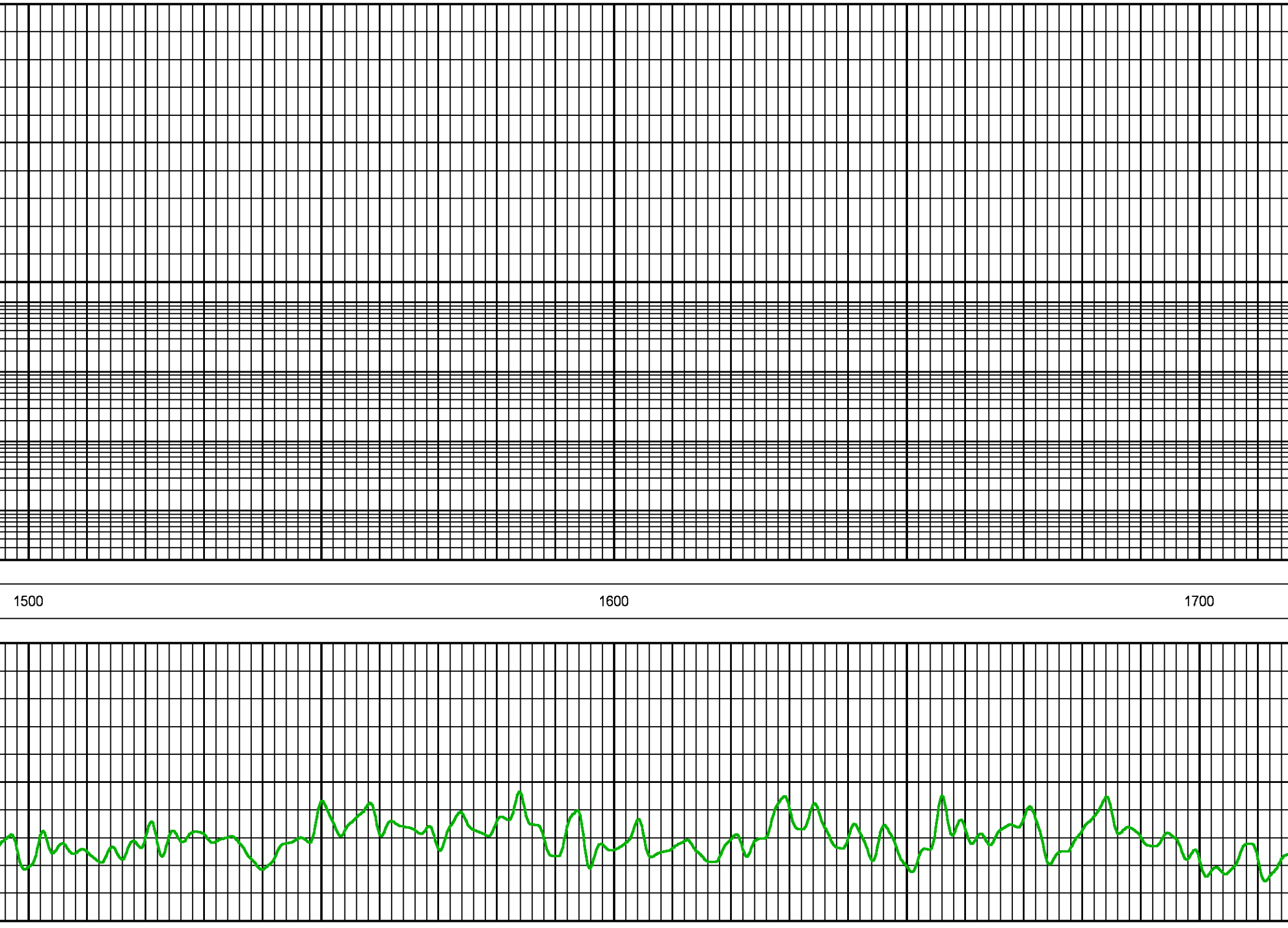
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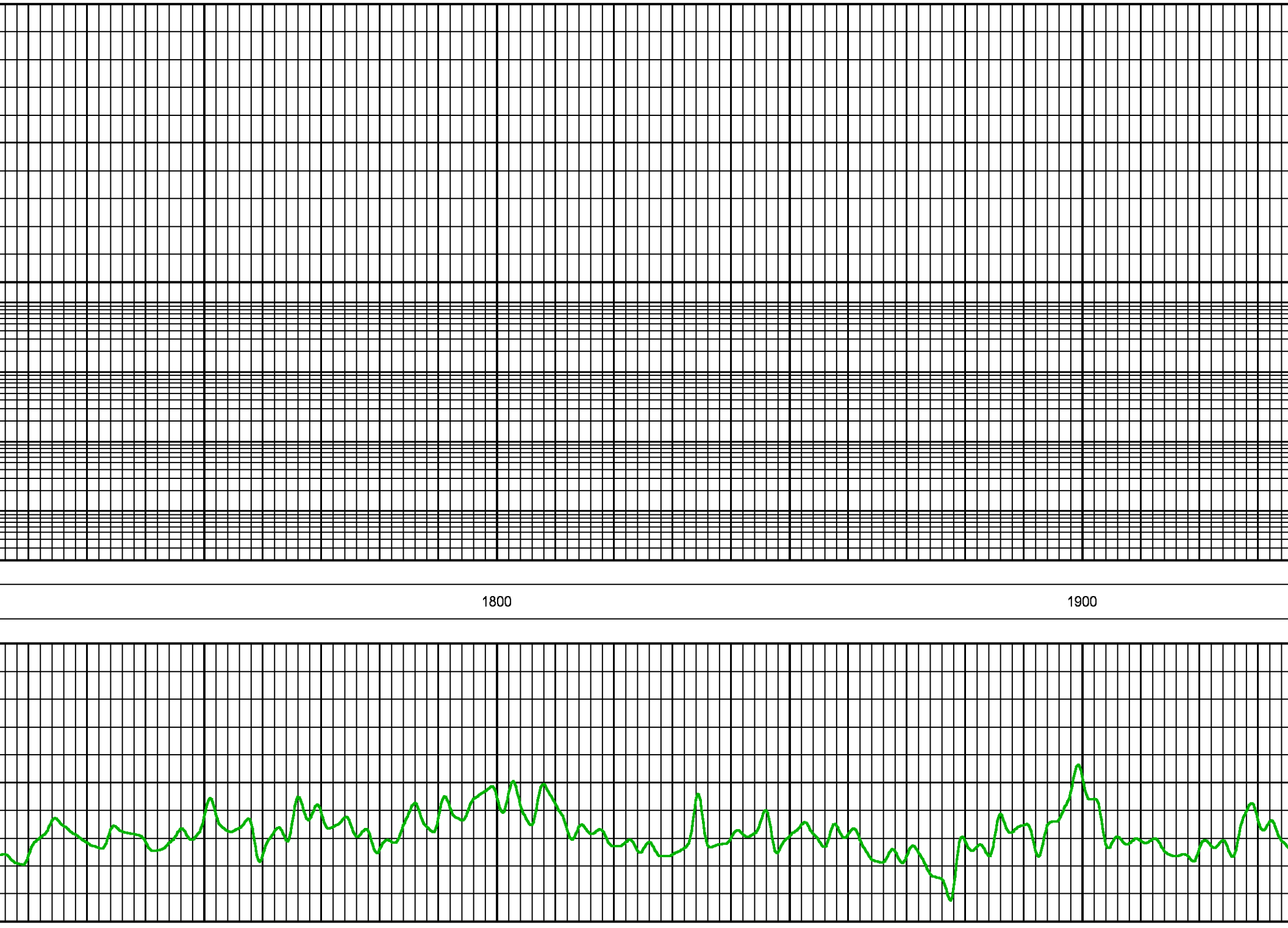
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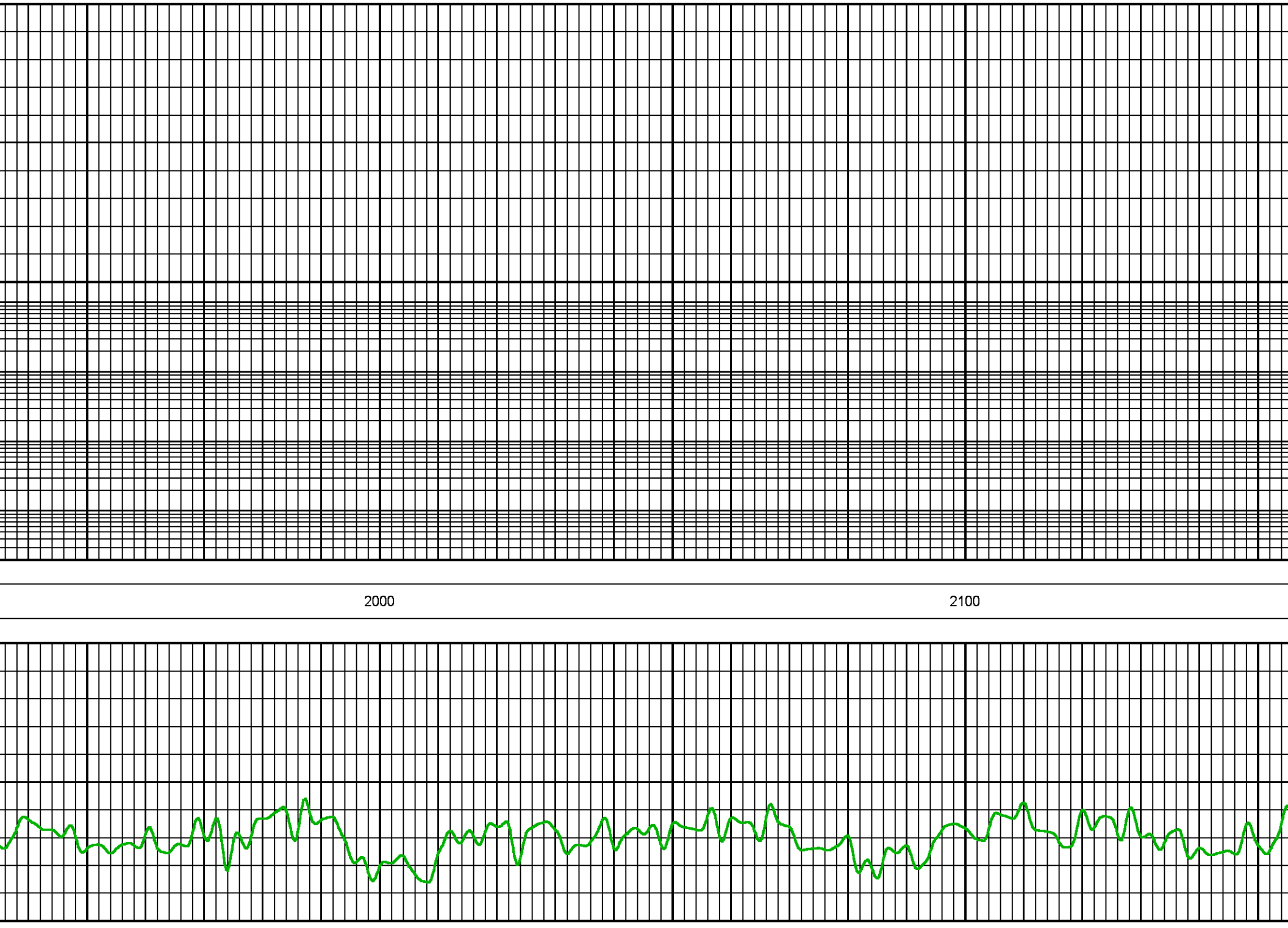
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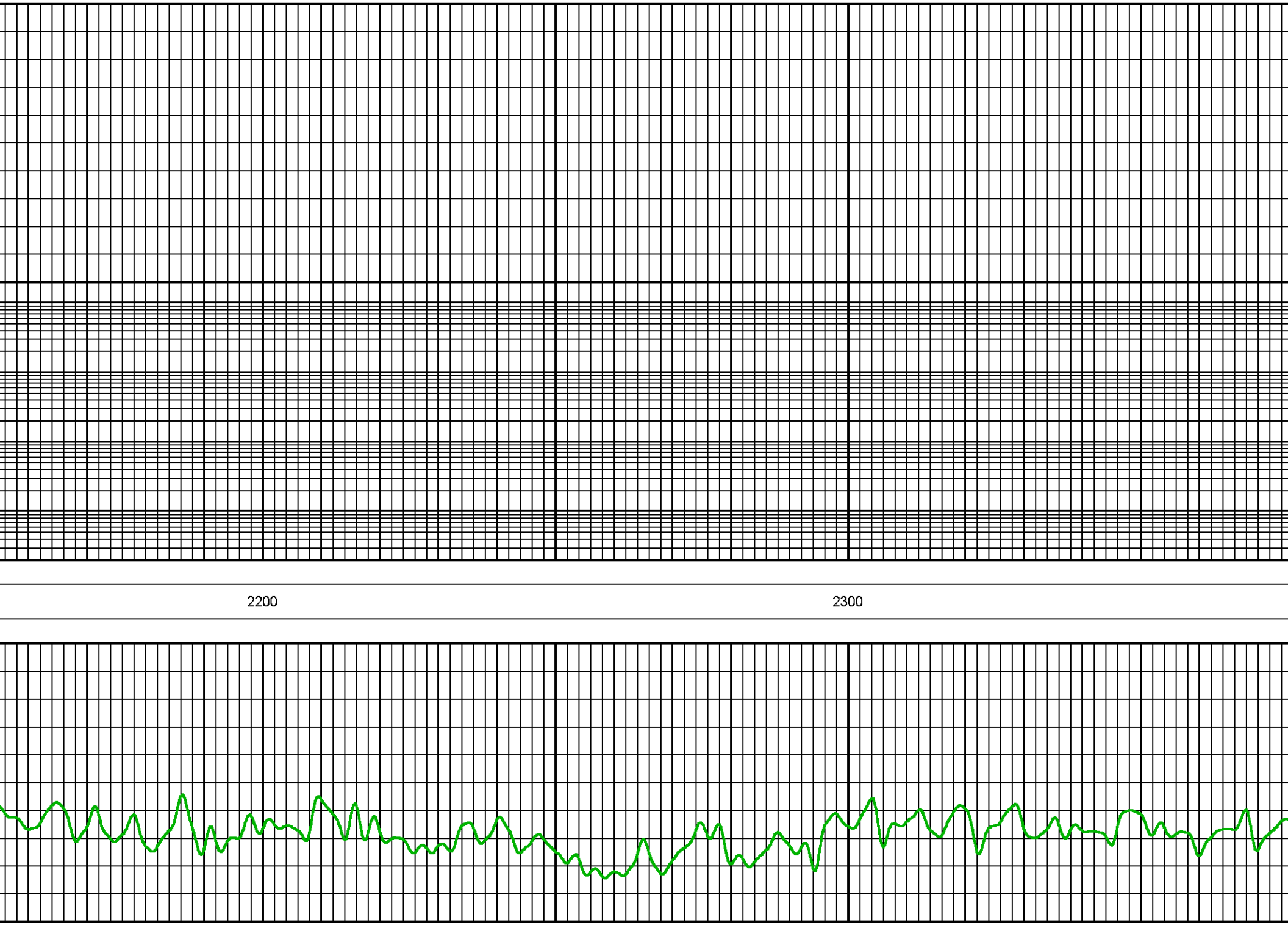
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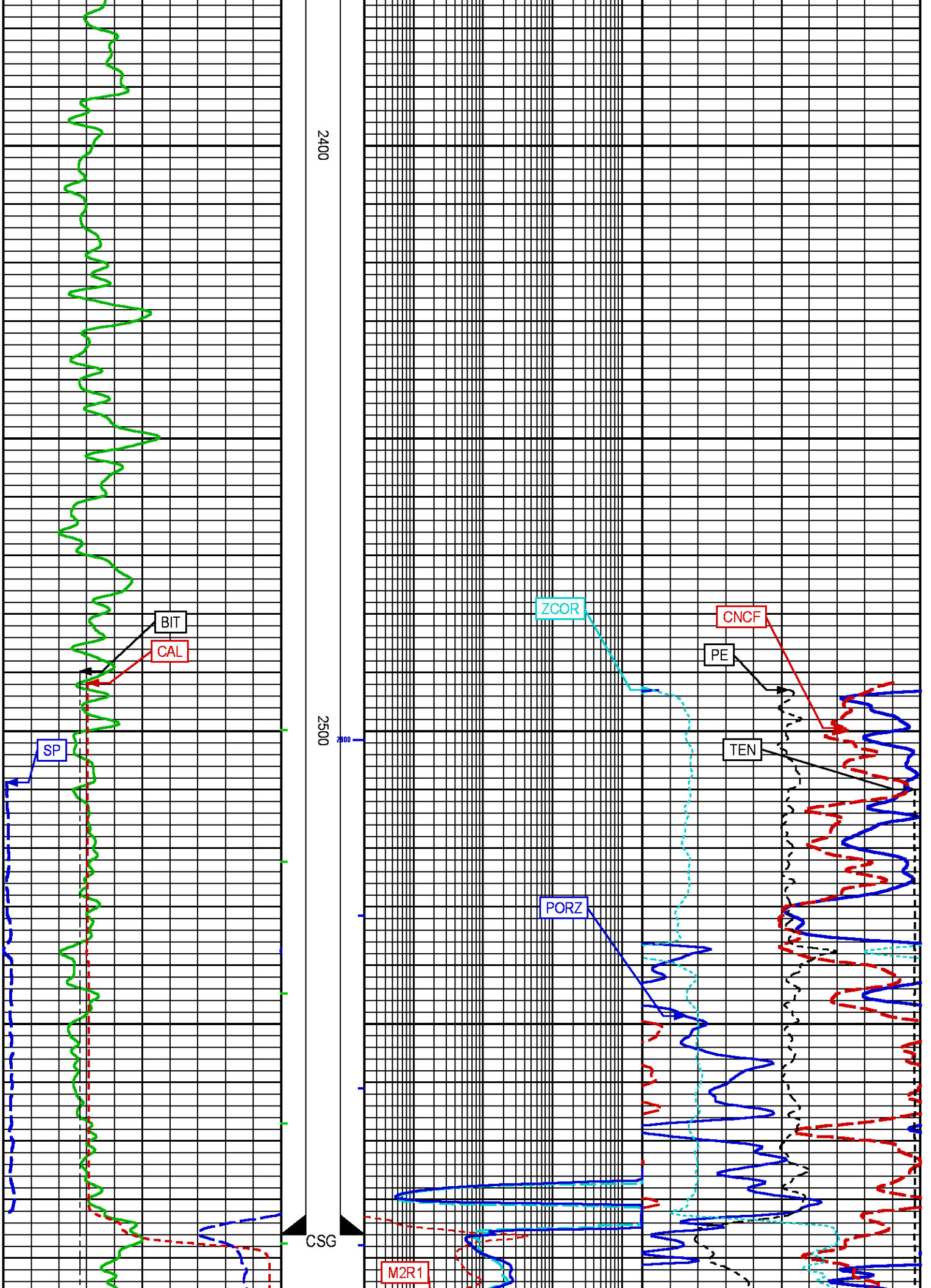
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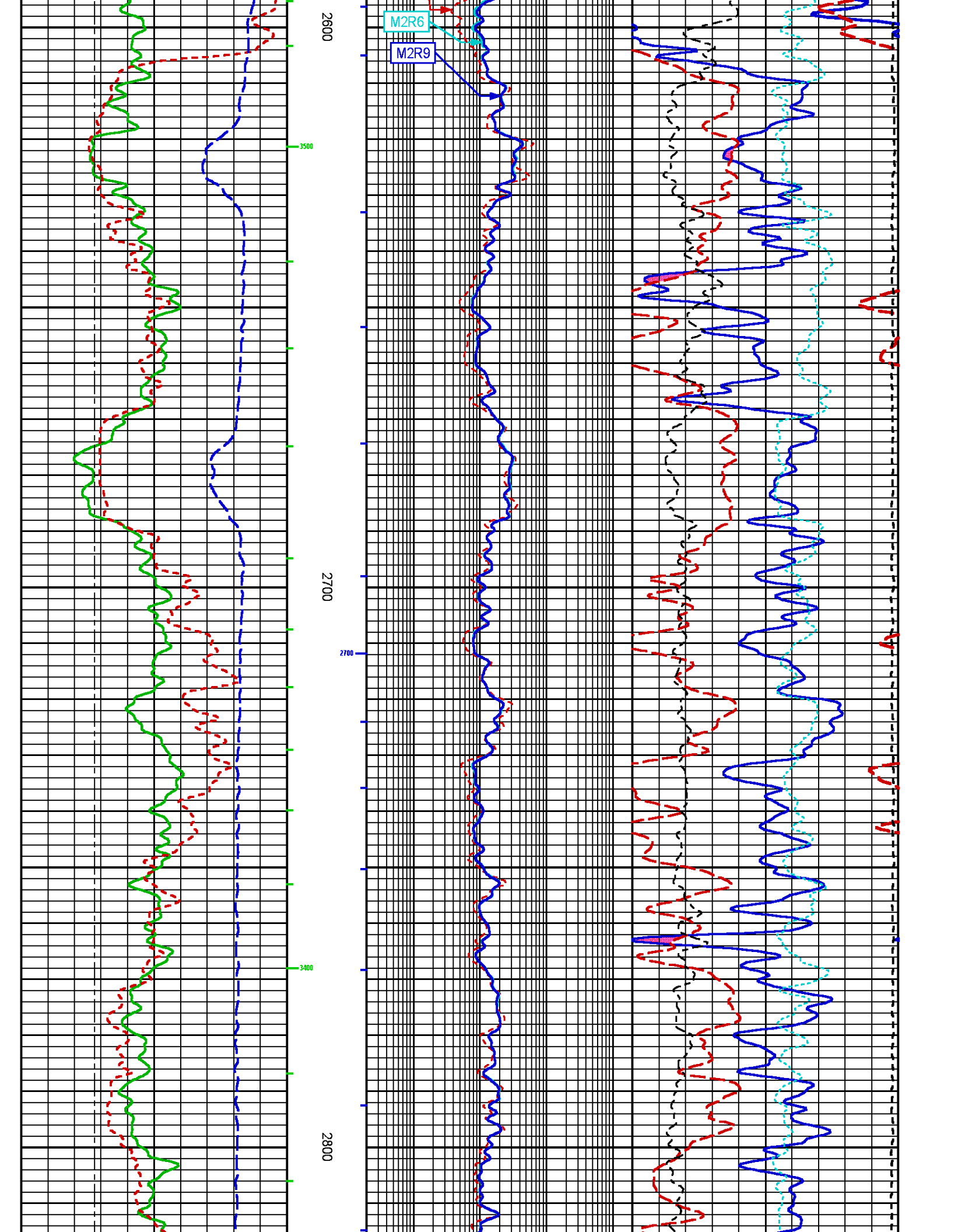
M2R1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M2R9
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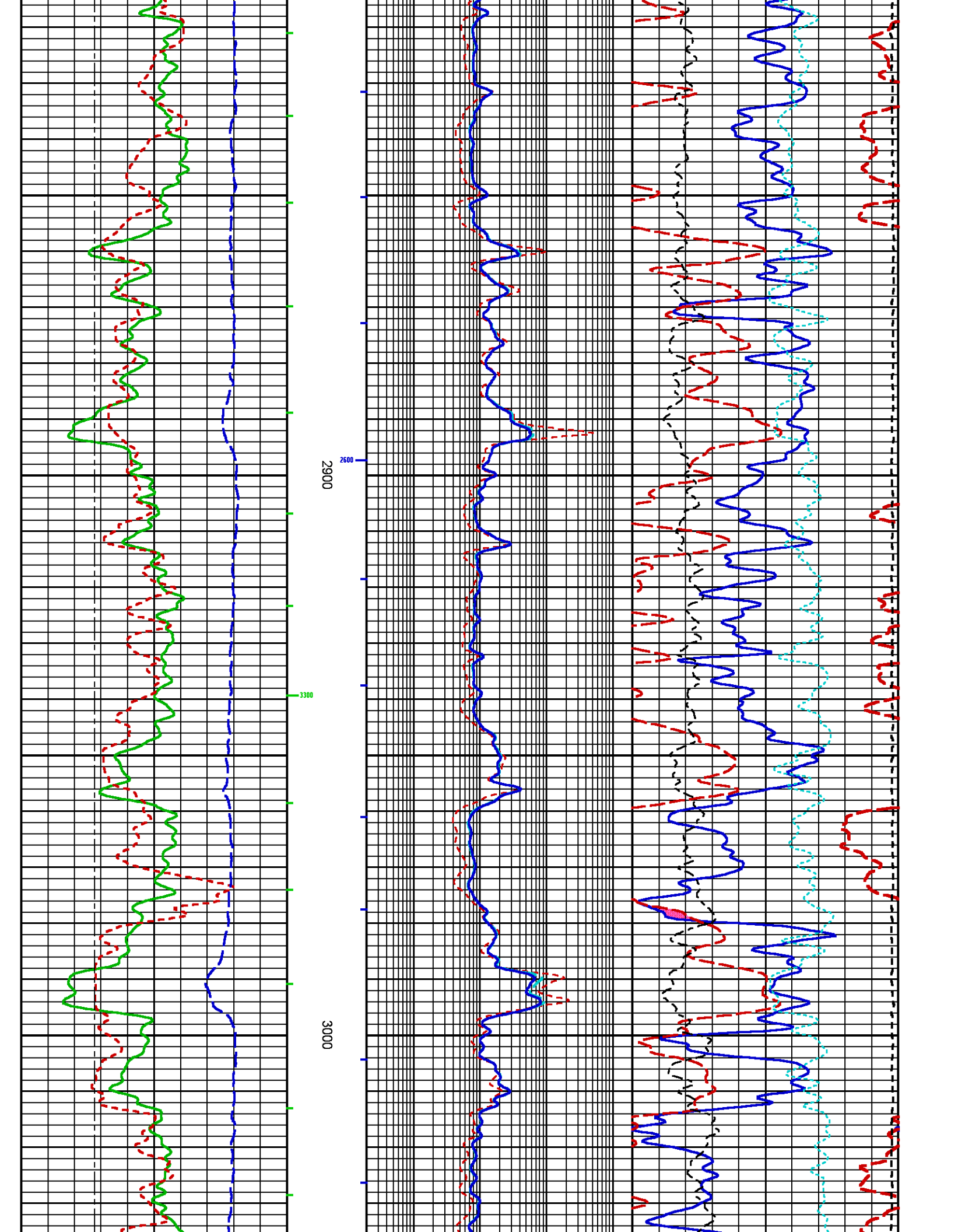
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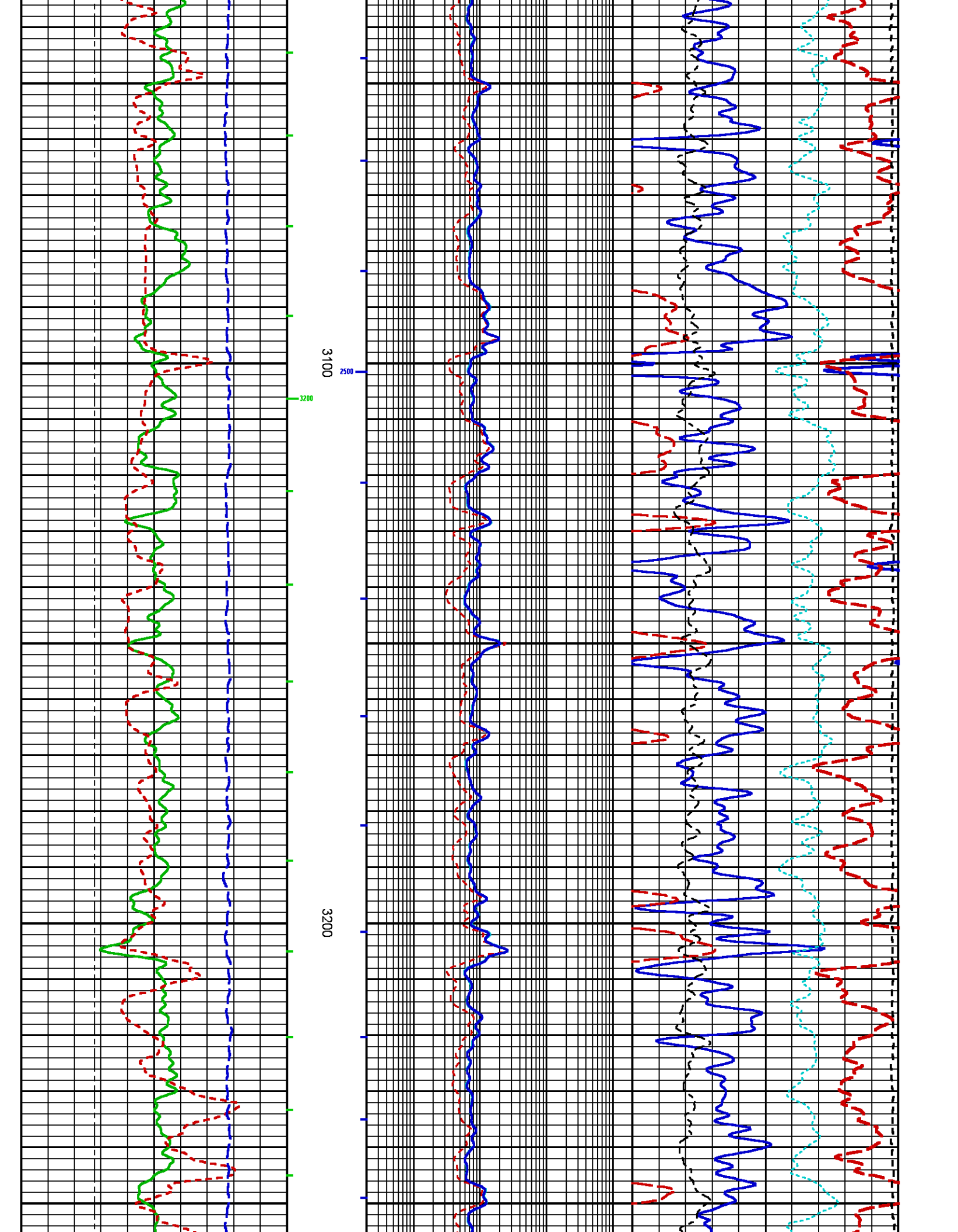
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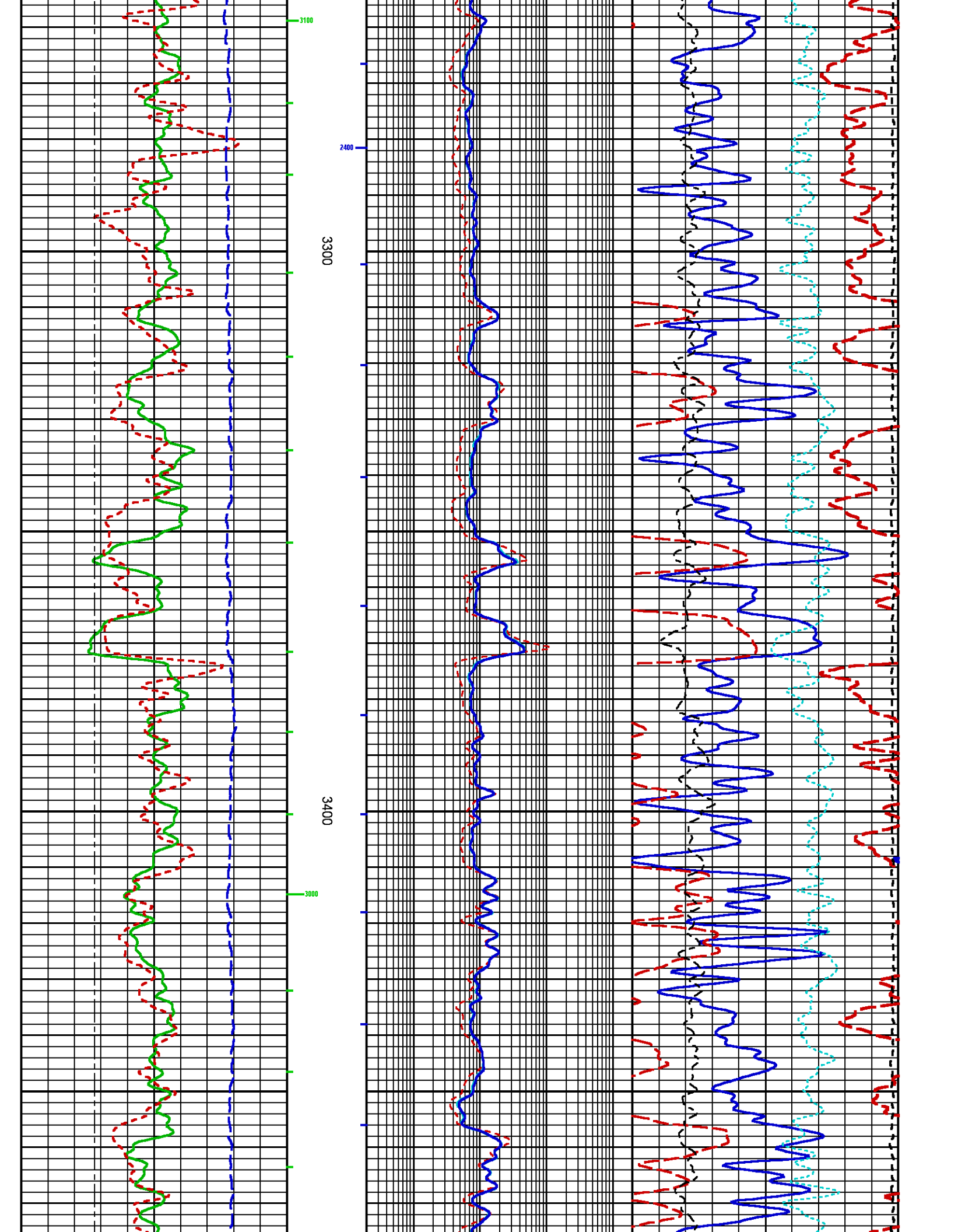
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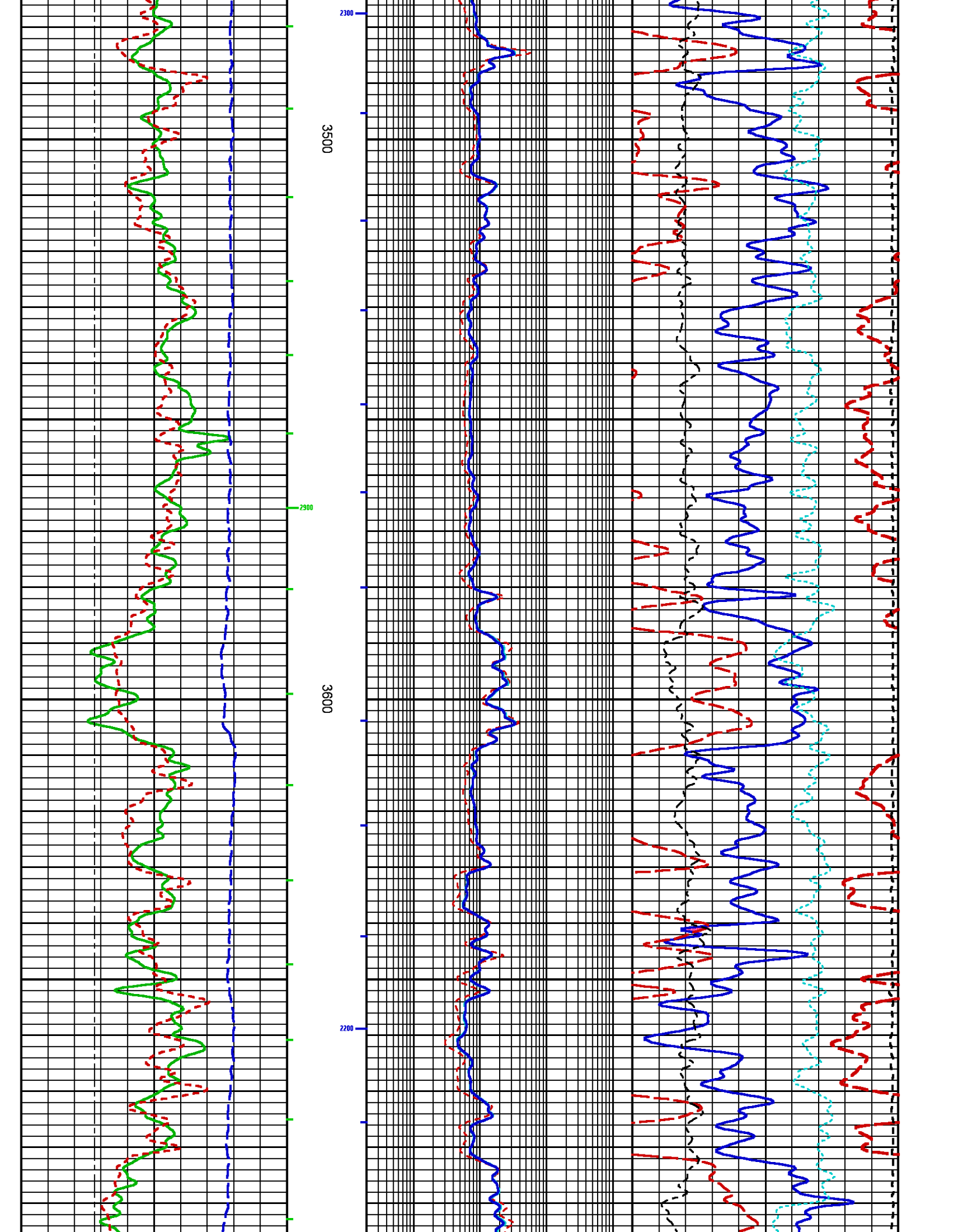
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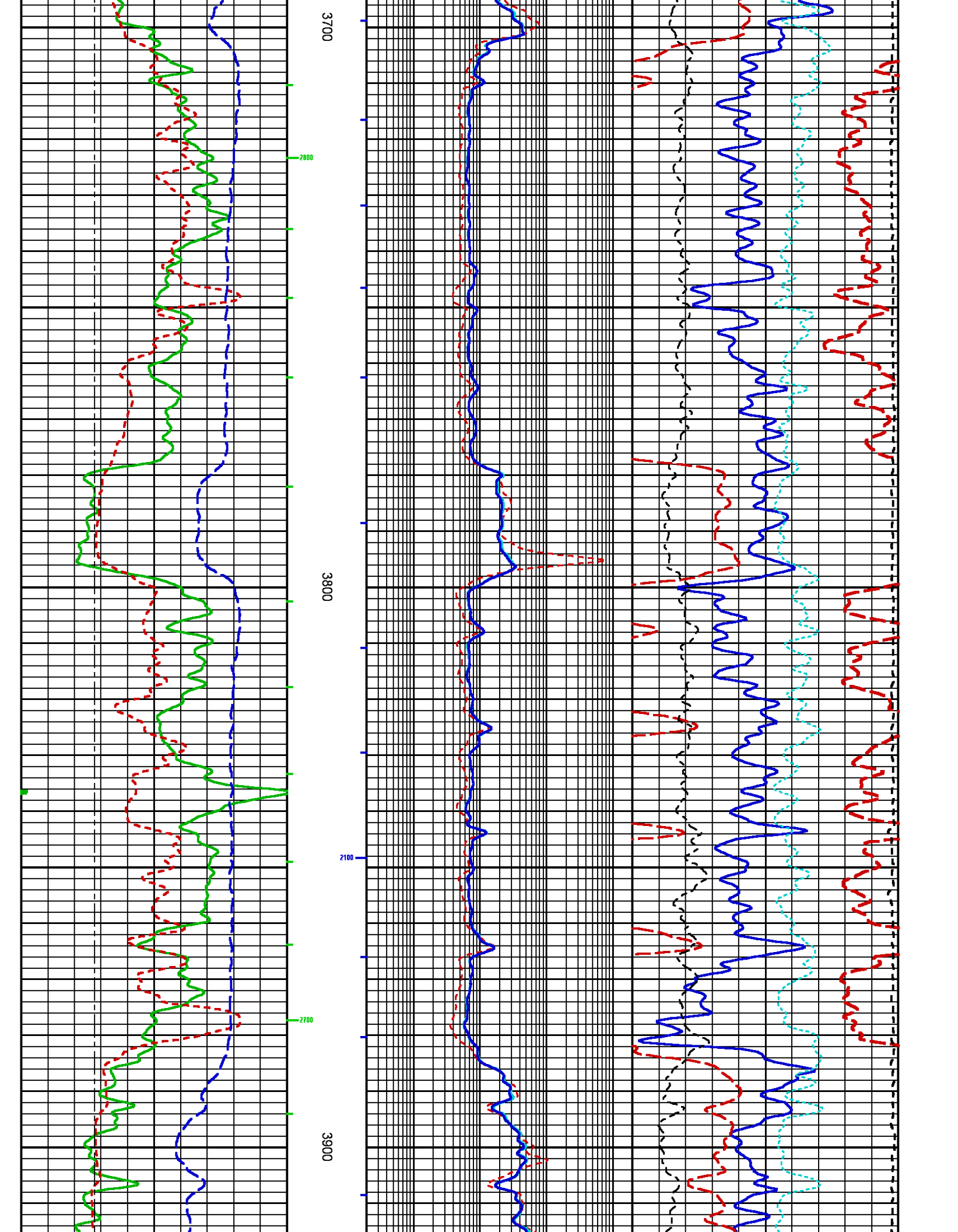
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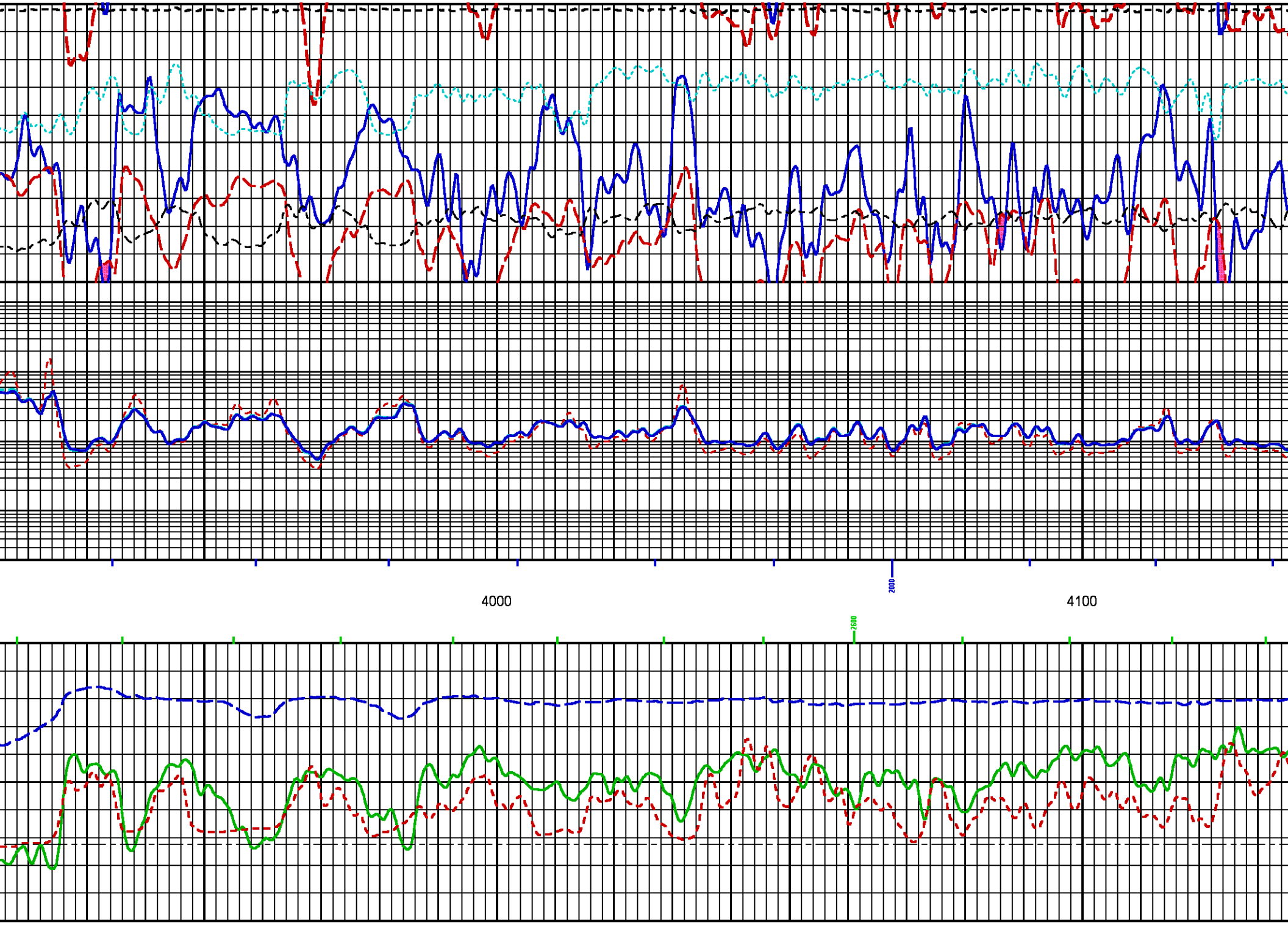
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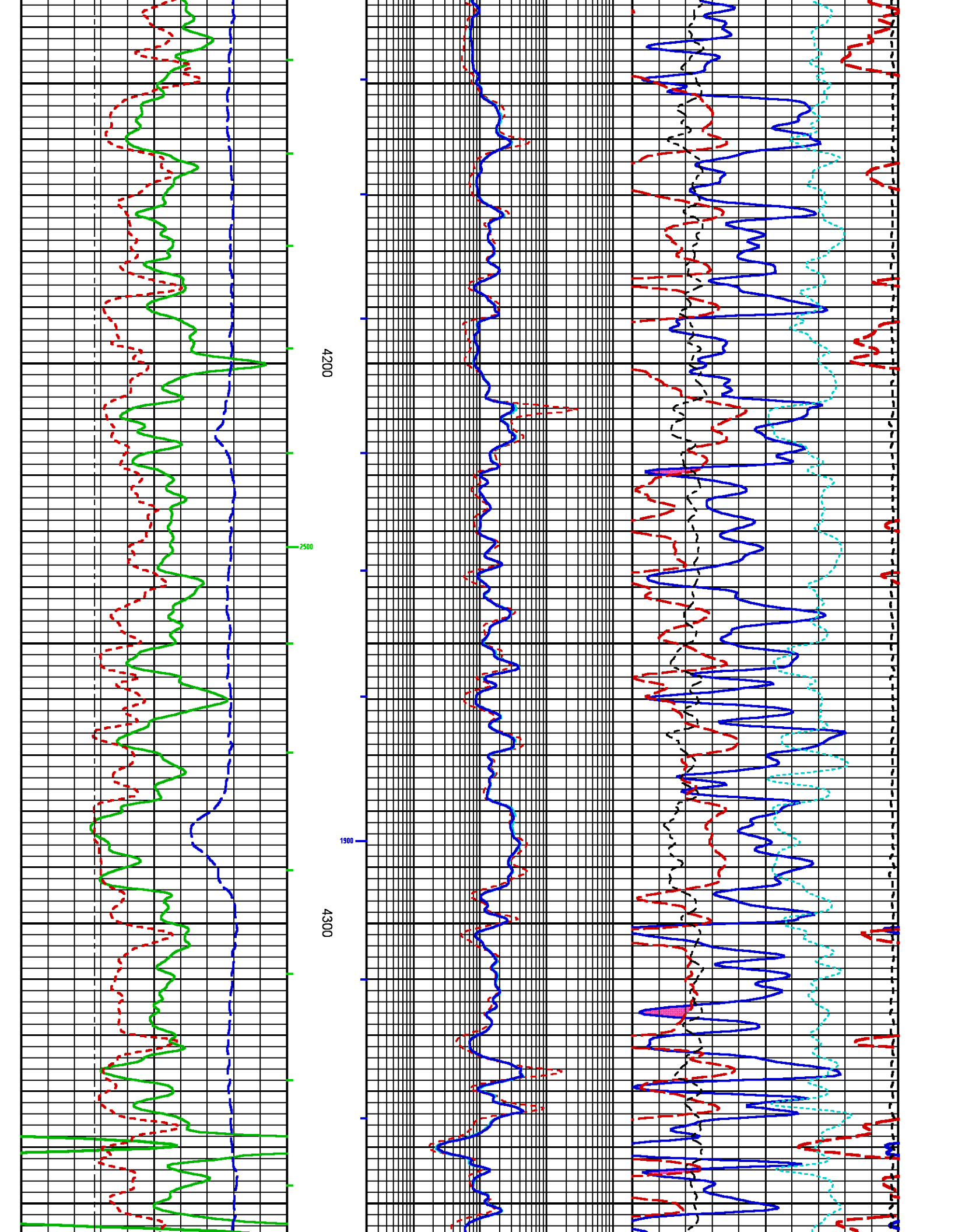
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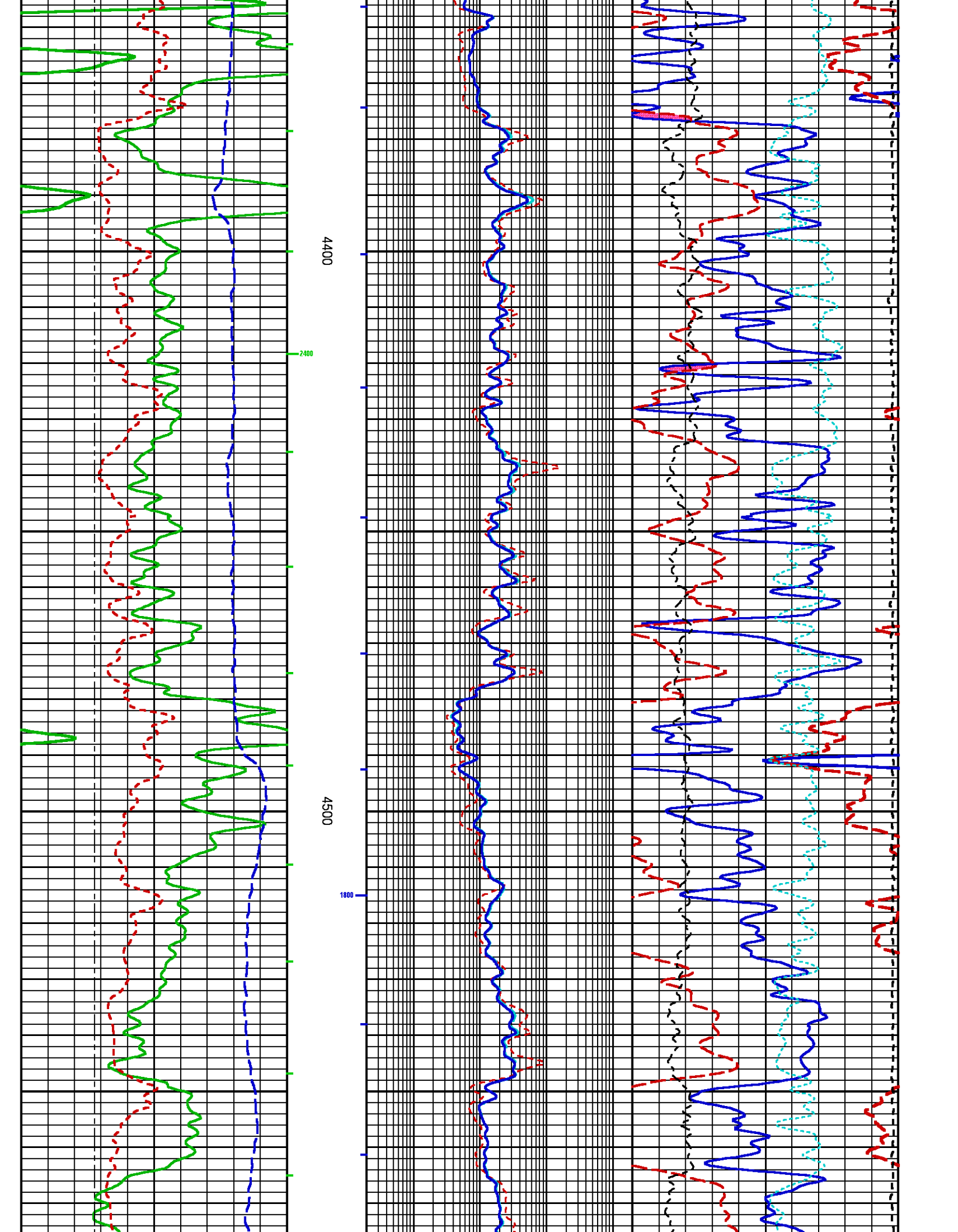
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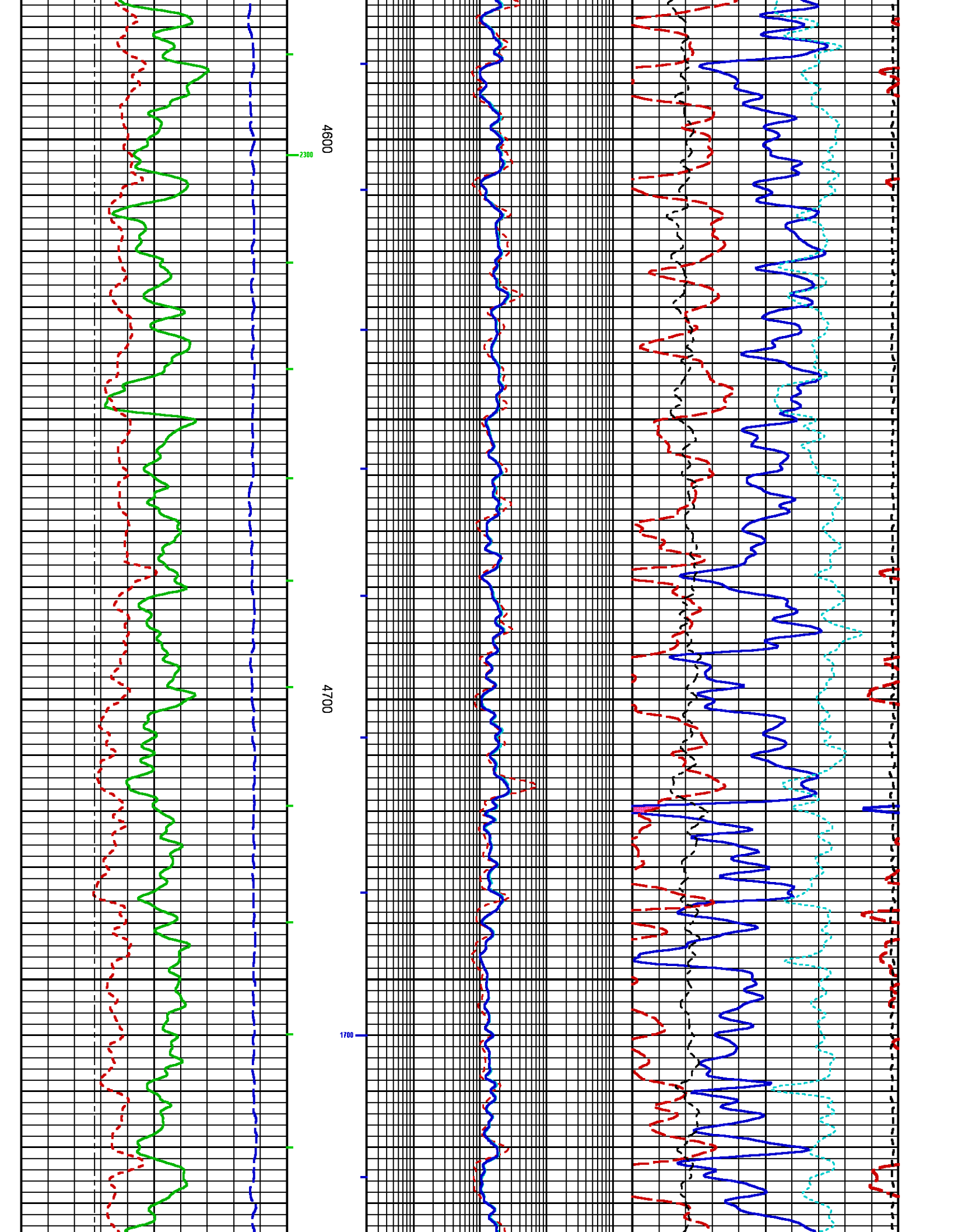
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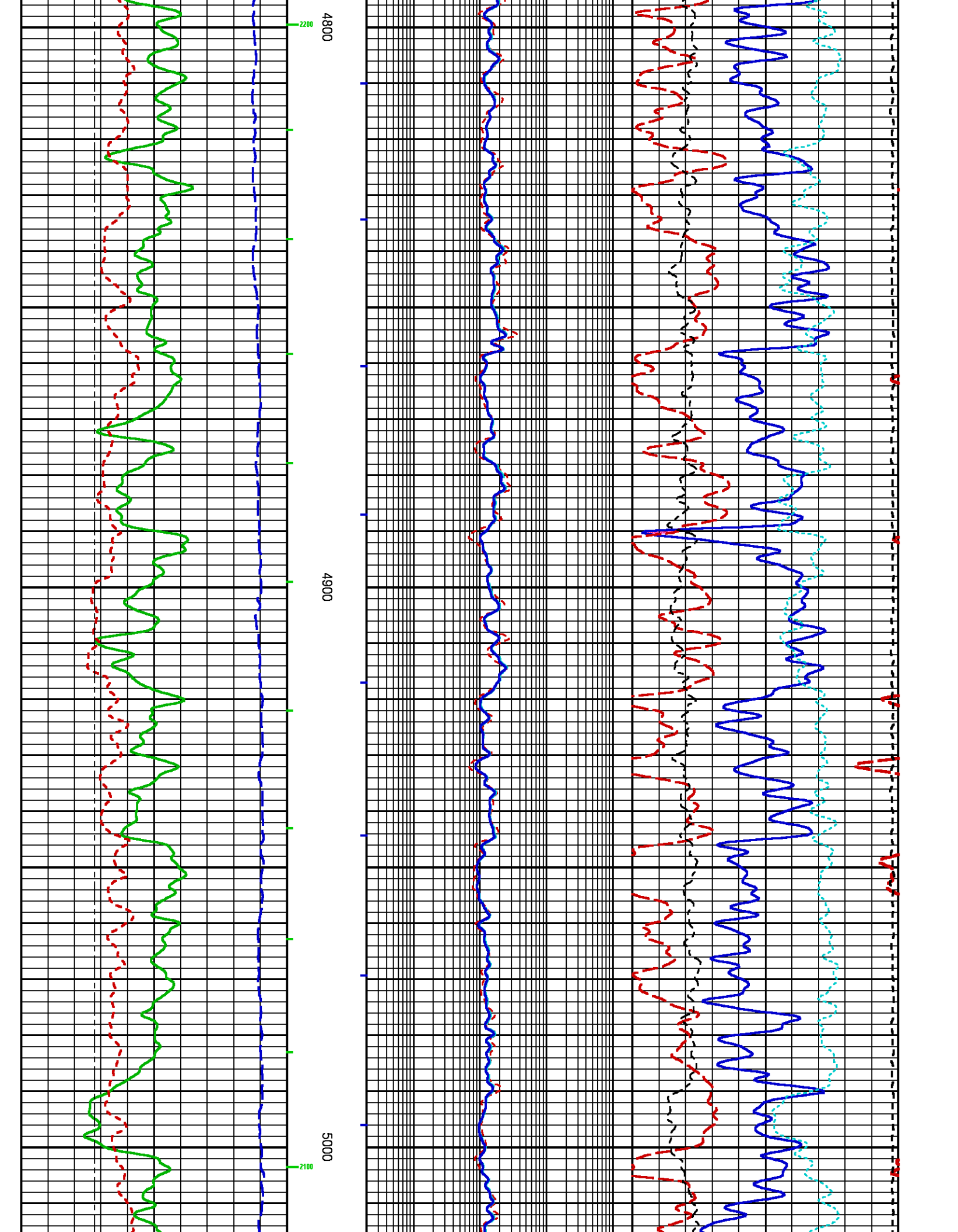
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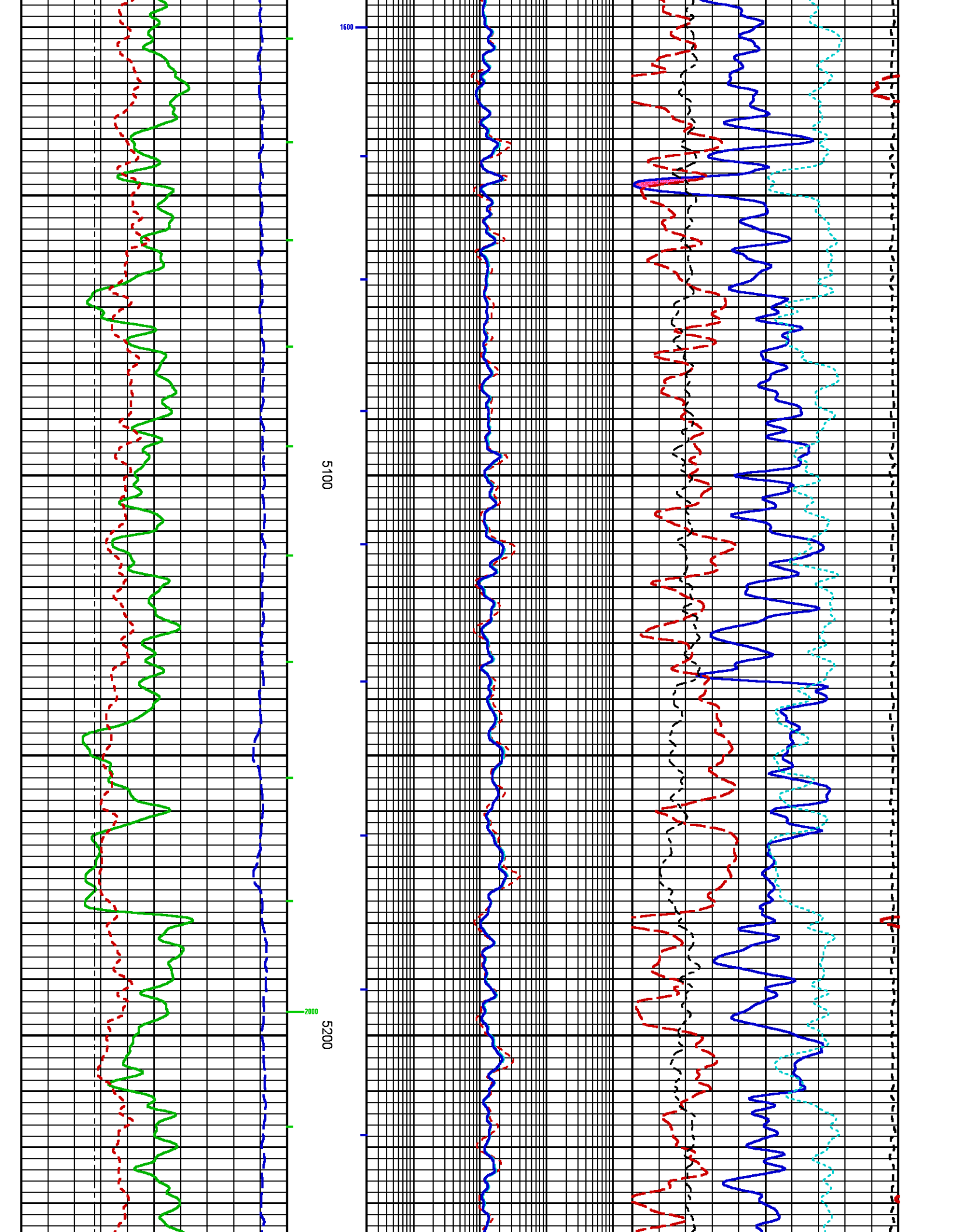
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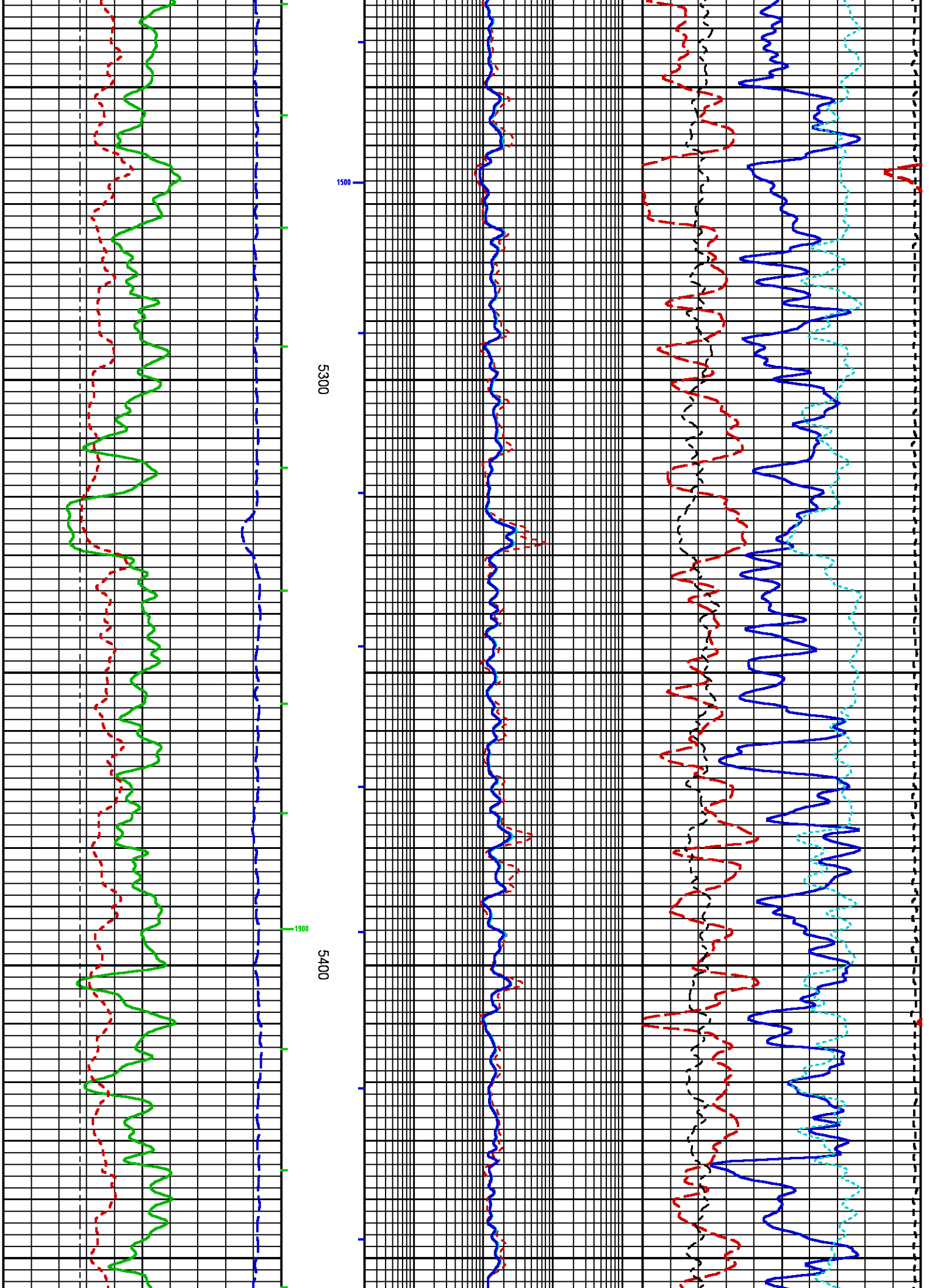
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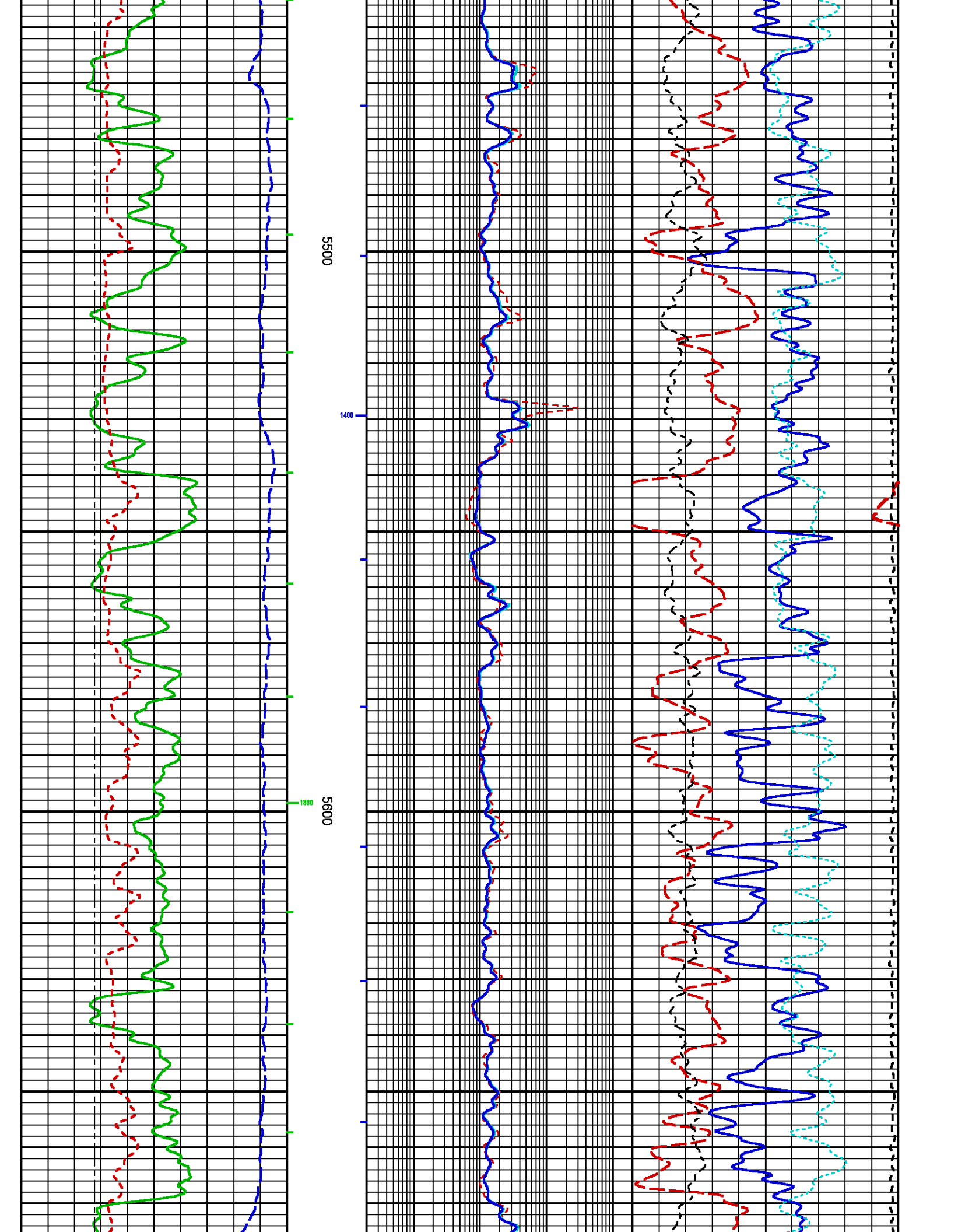
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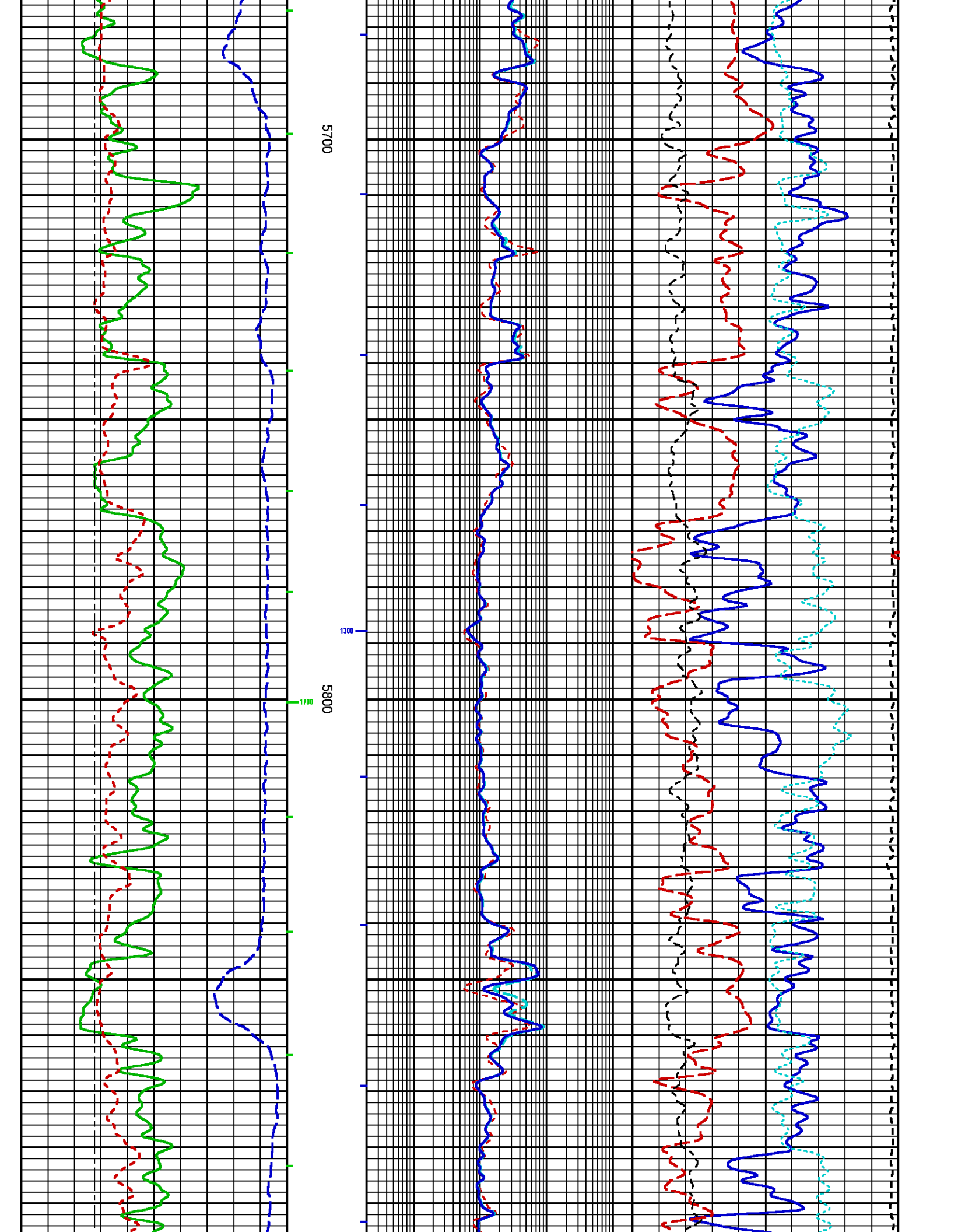
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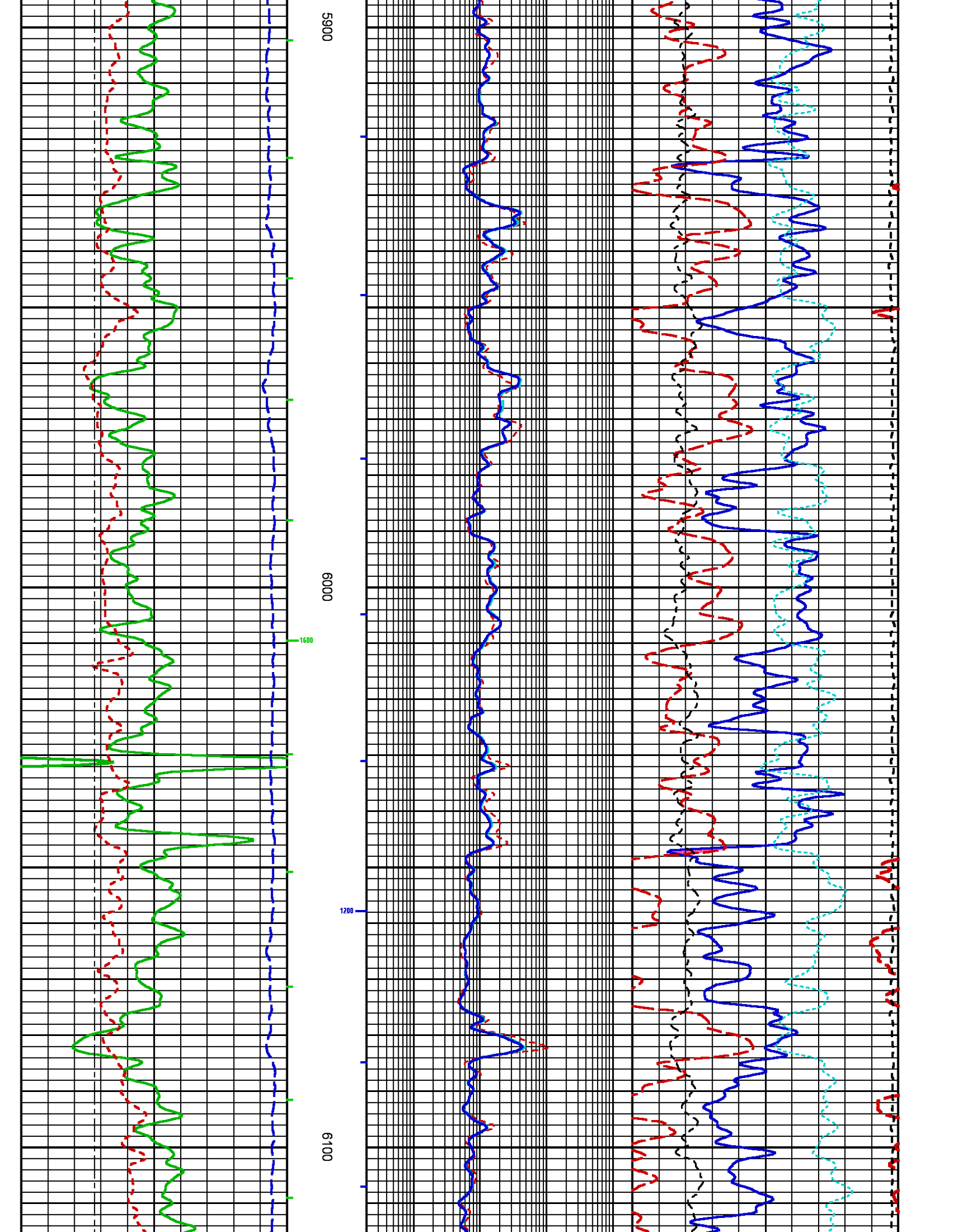
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1600
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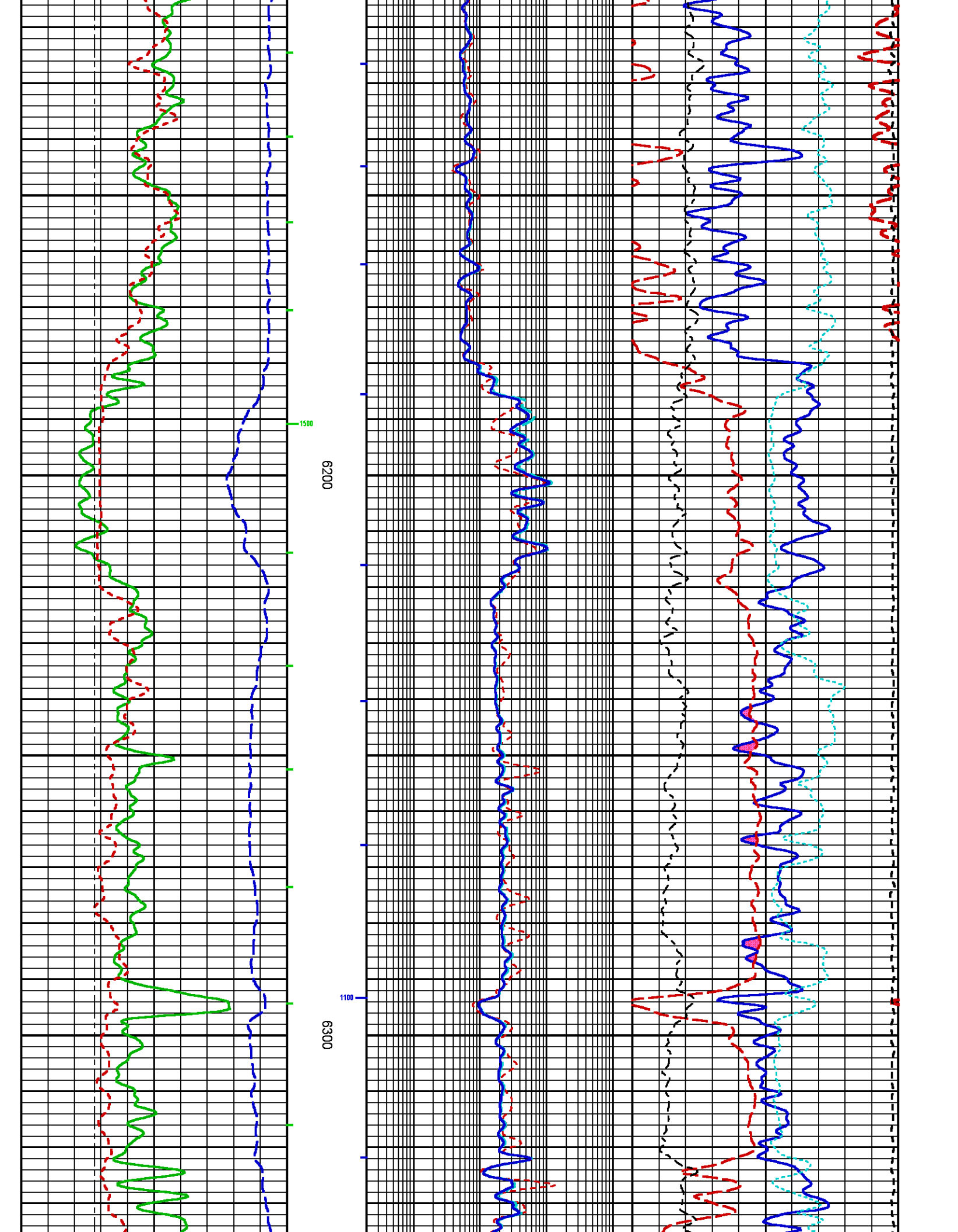
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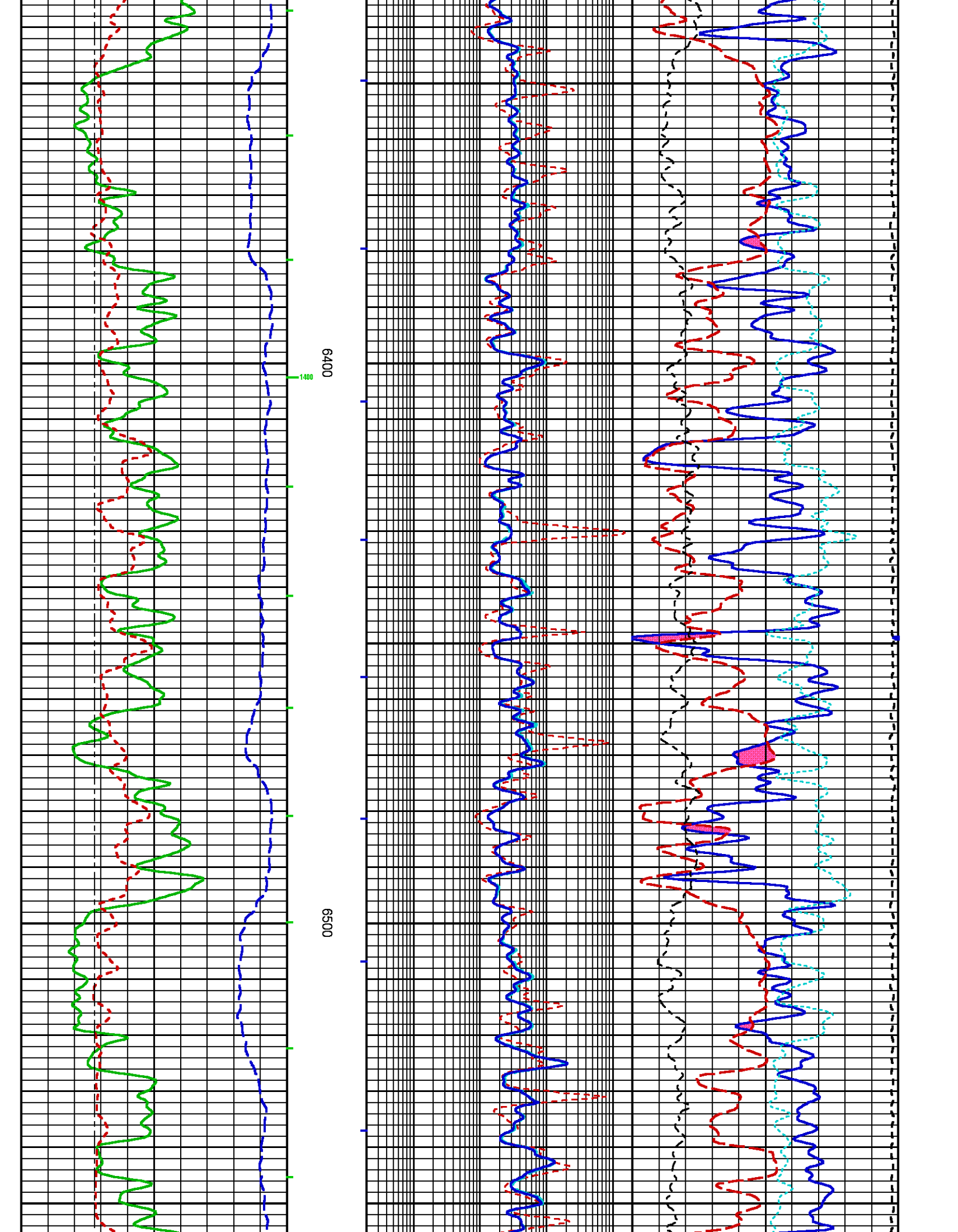
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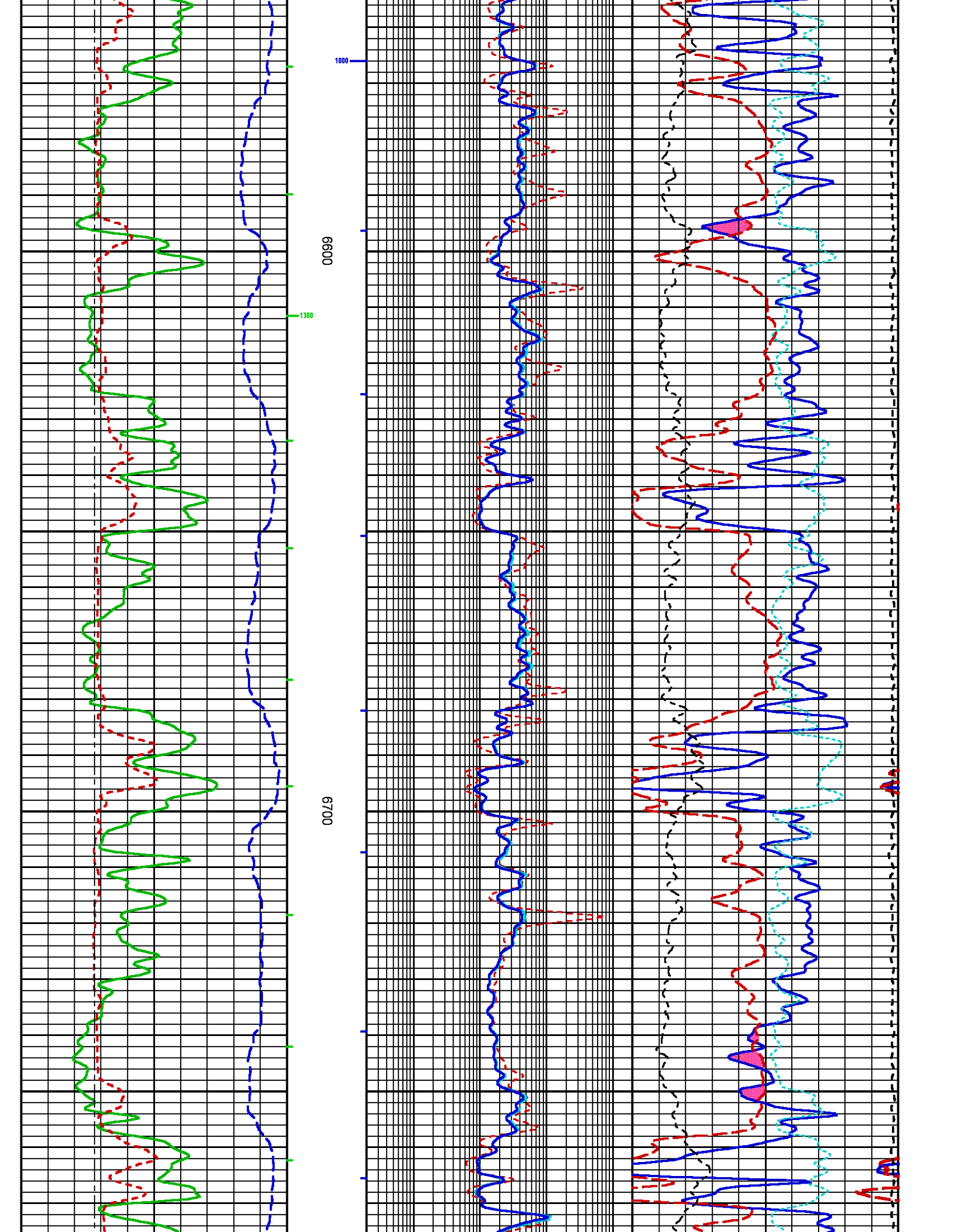
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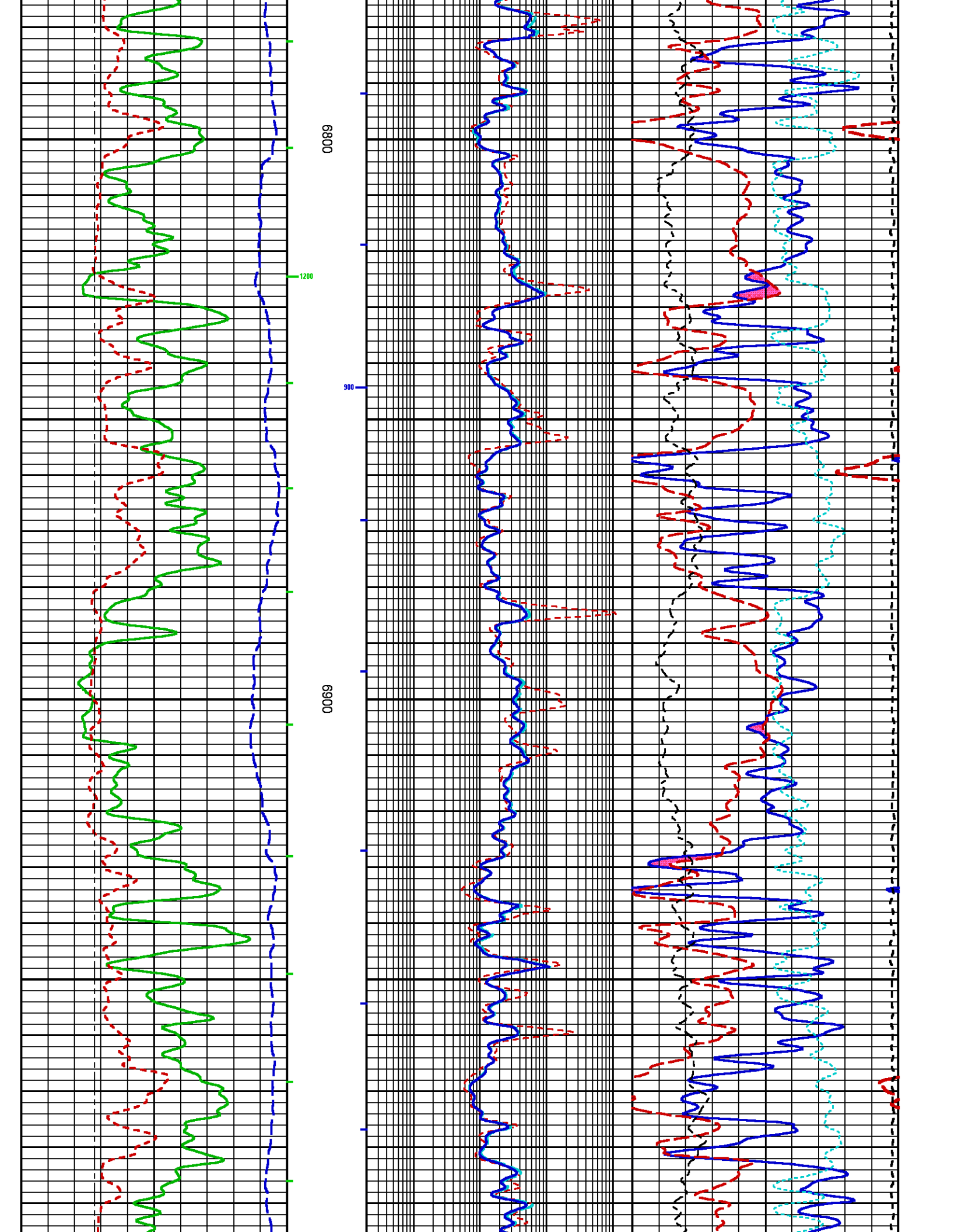
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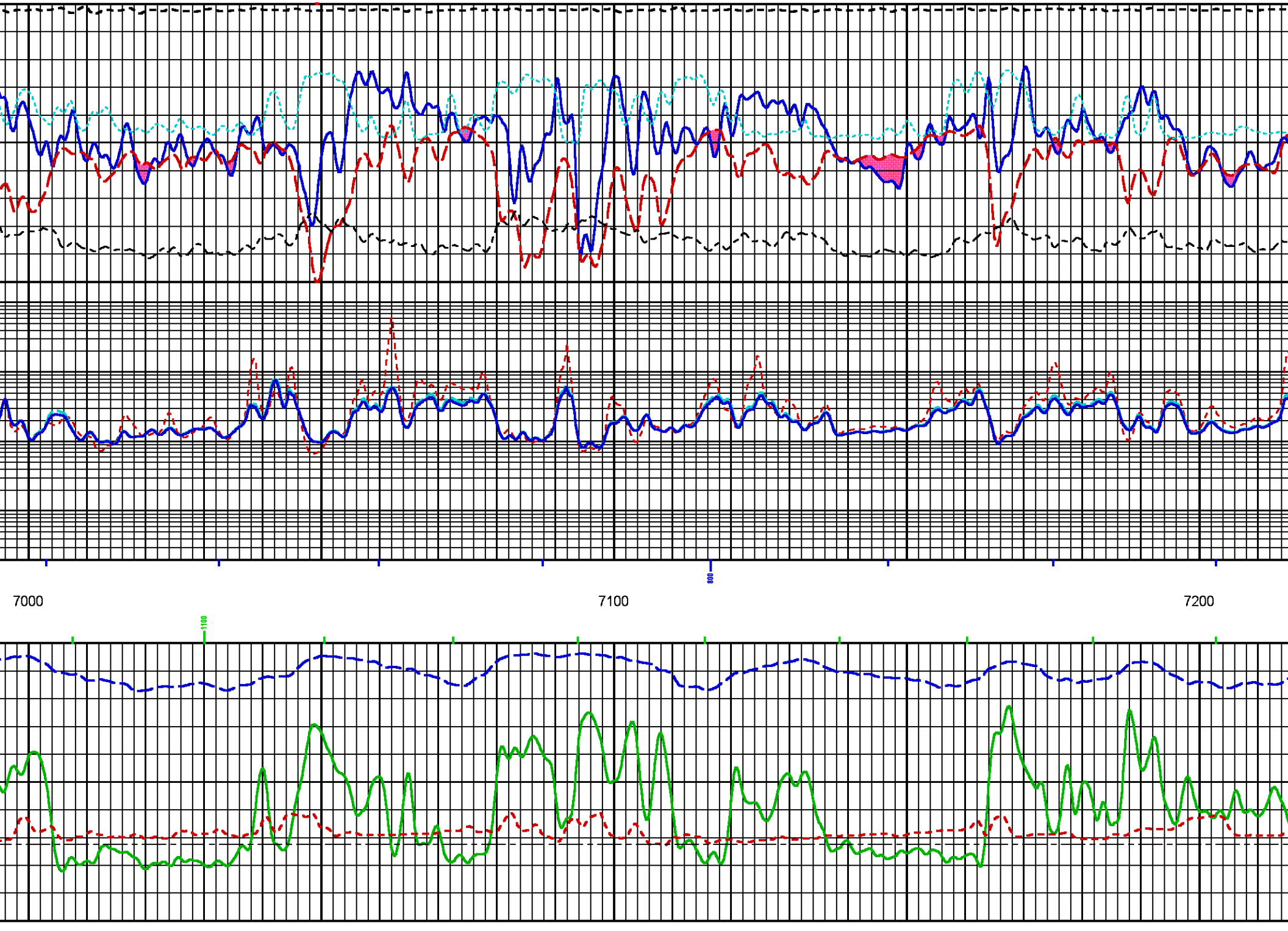
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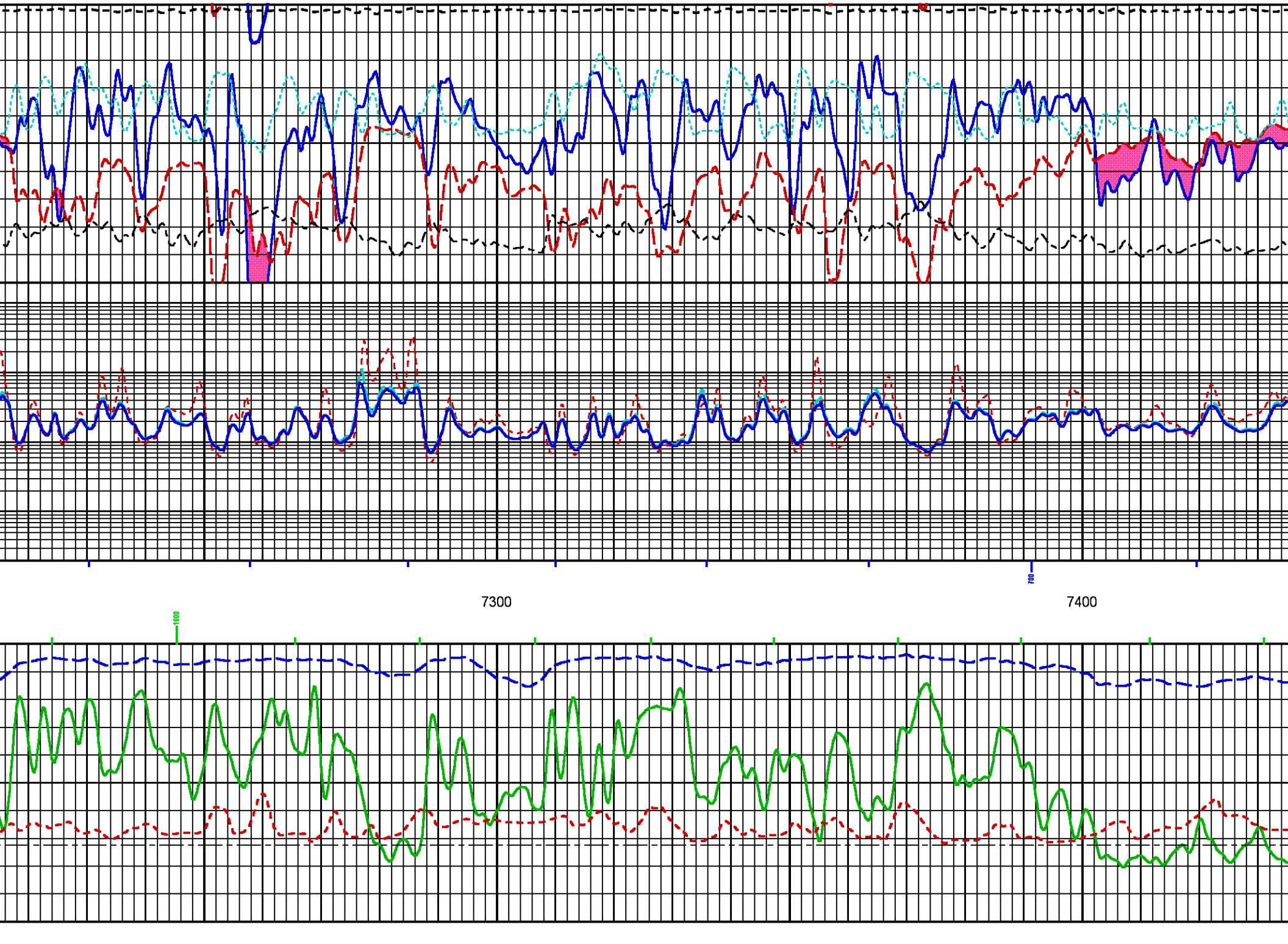
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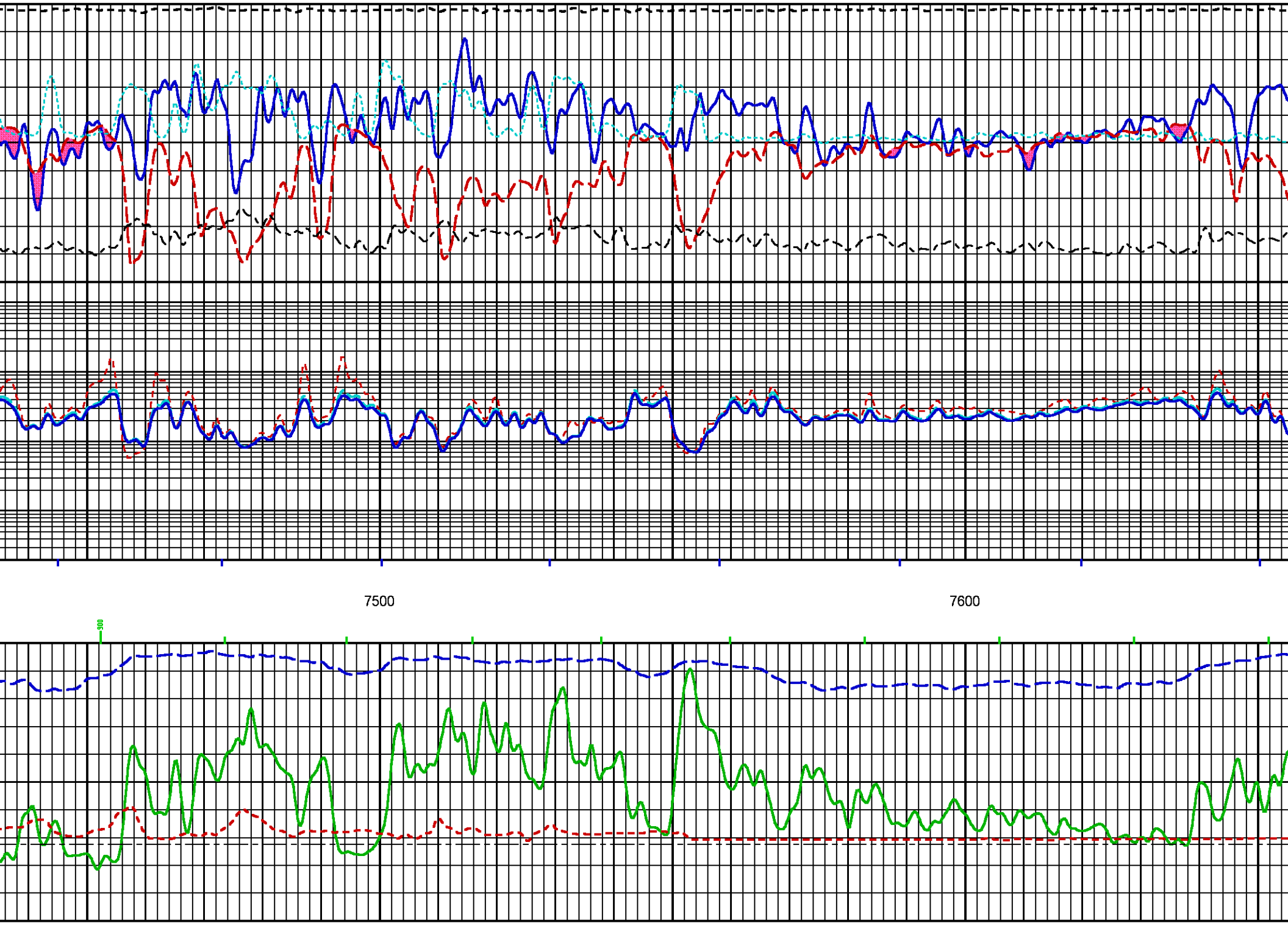
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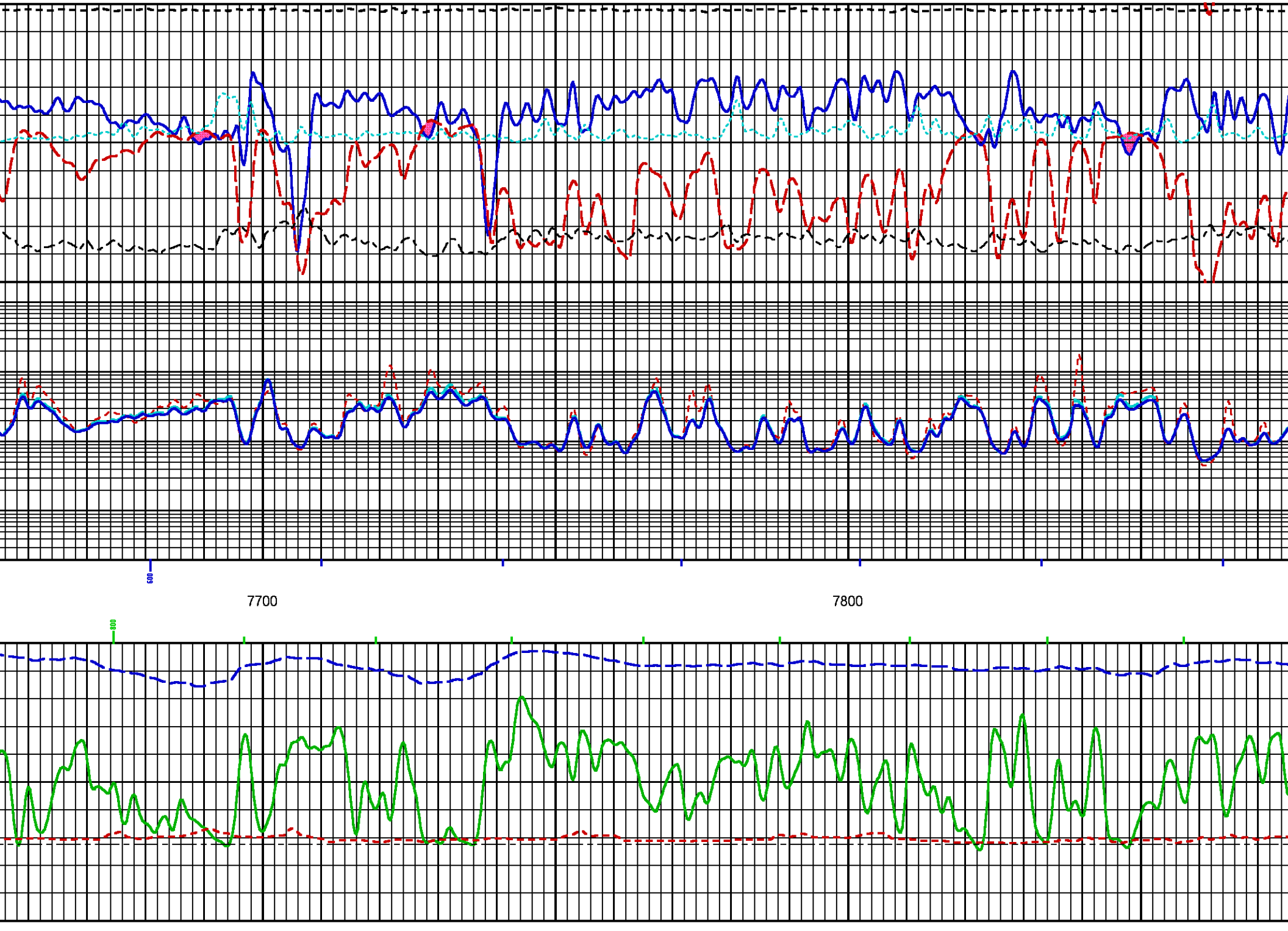
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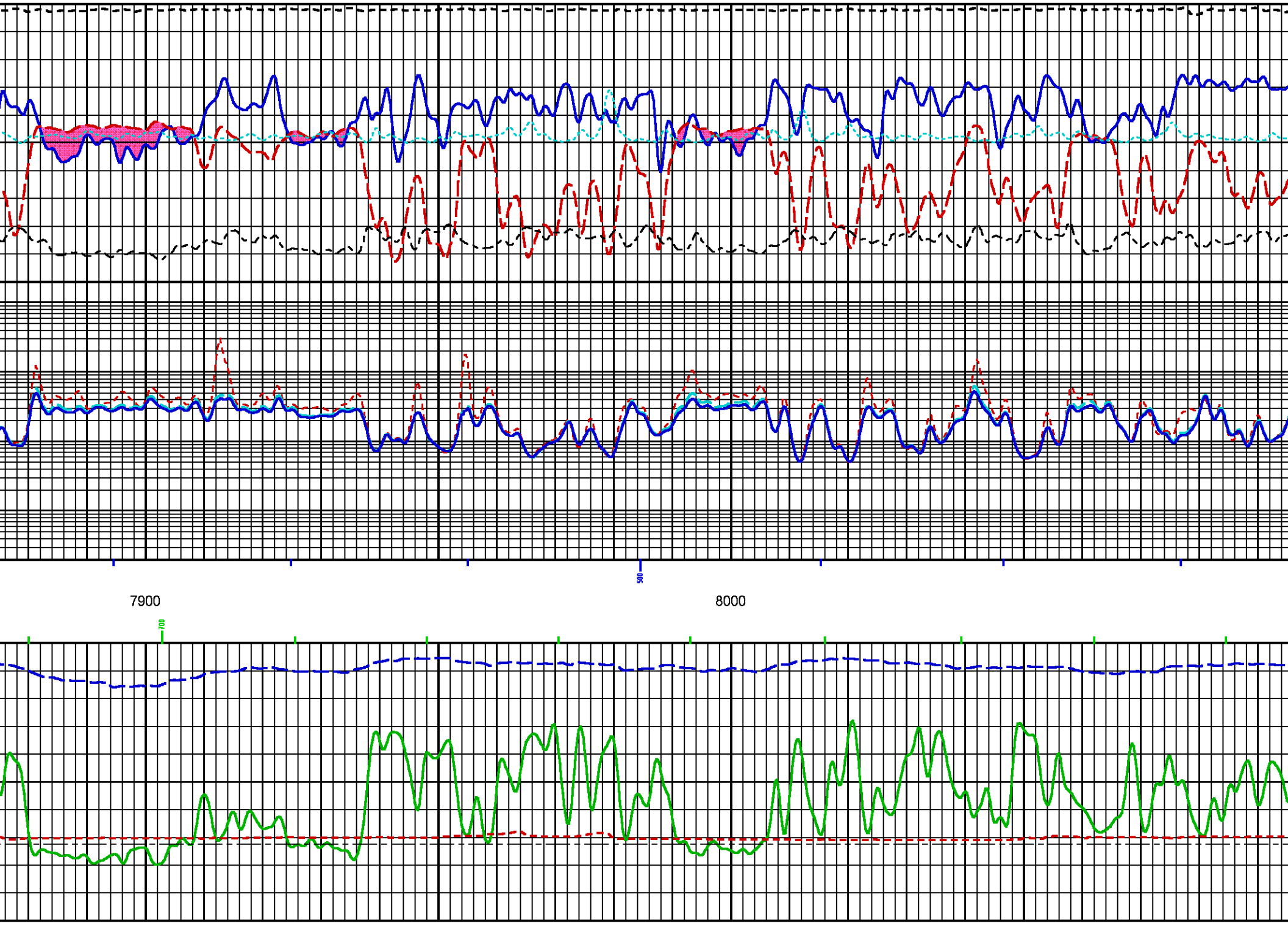
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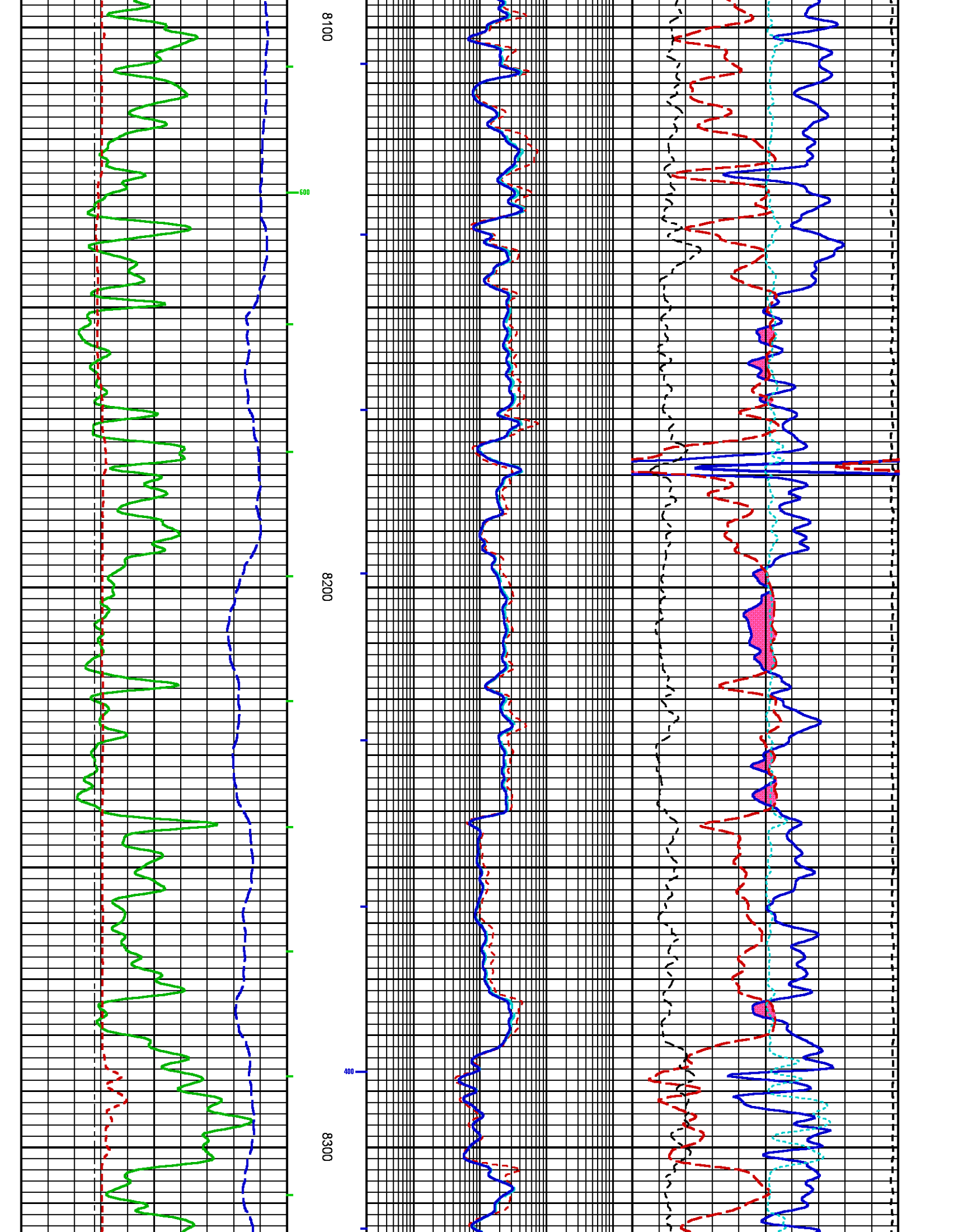
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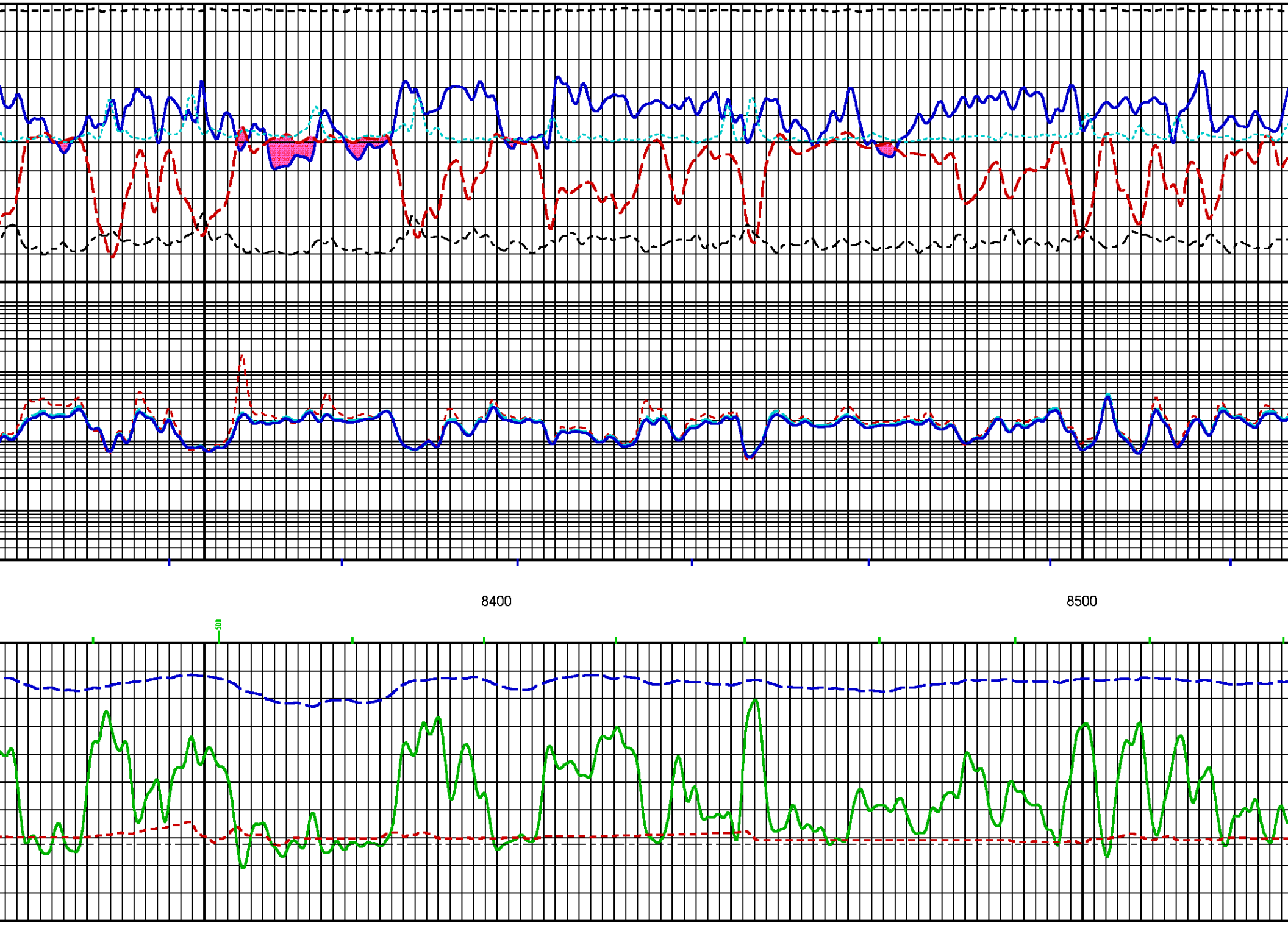
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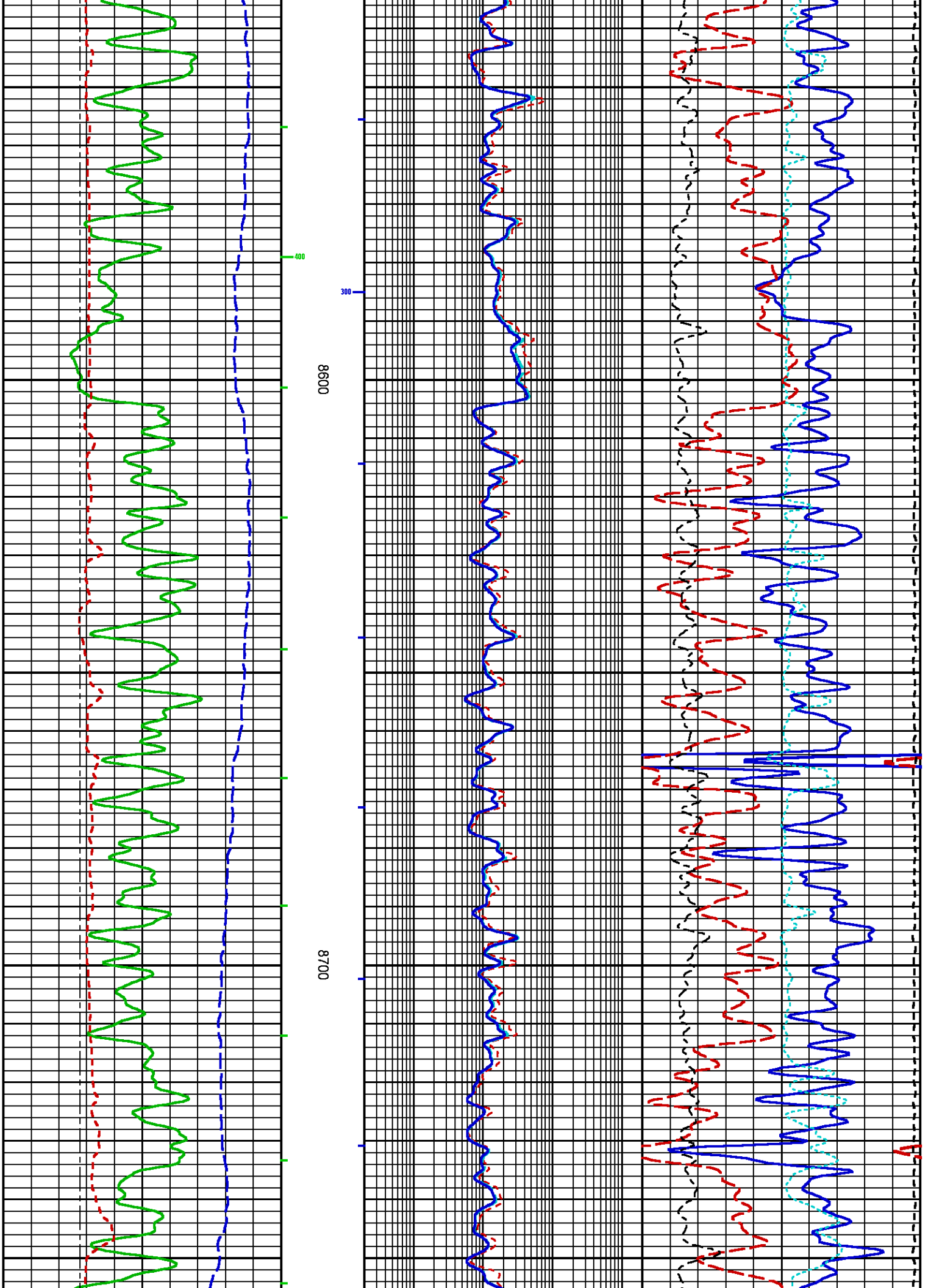
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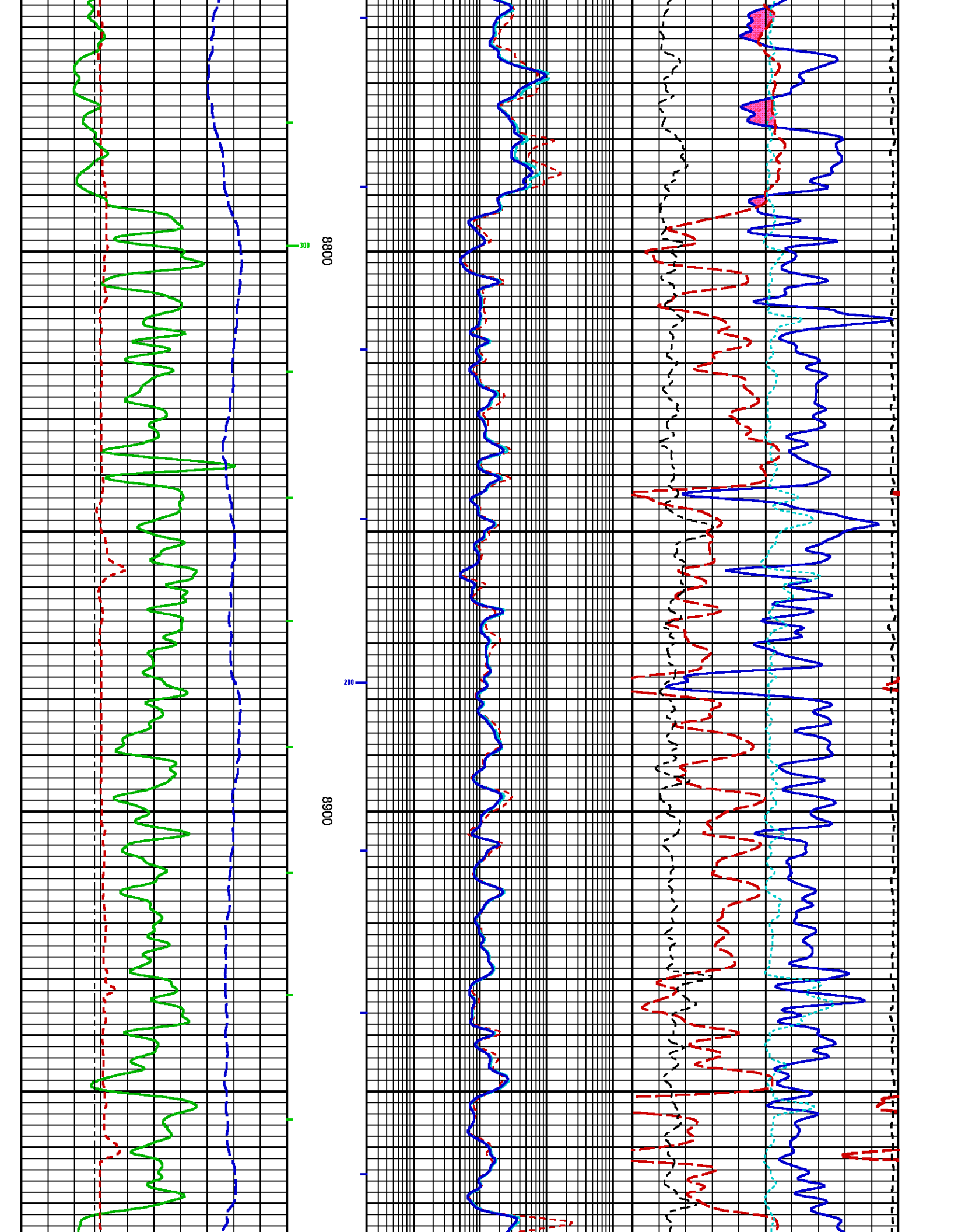
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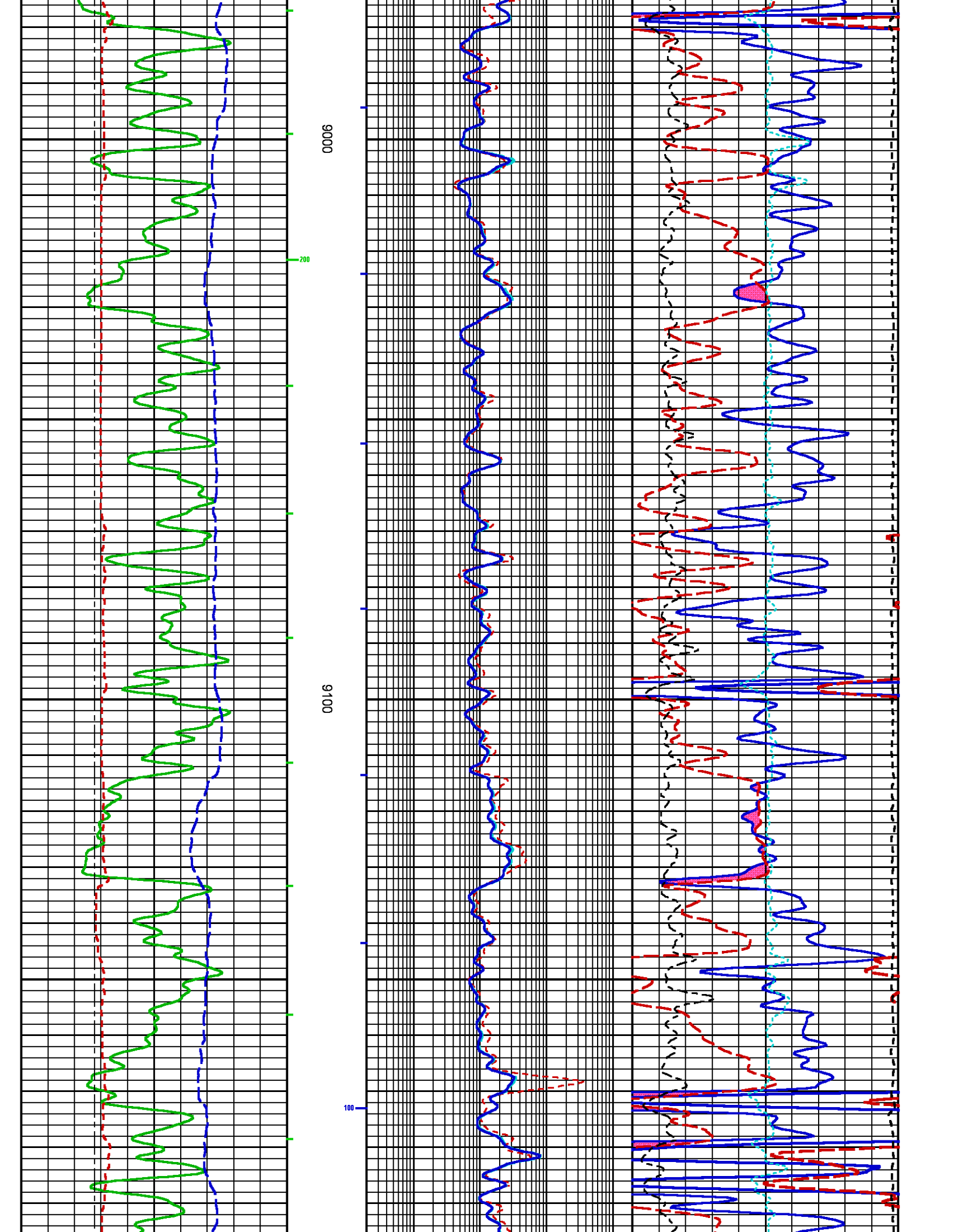
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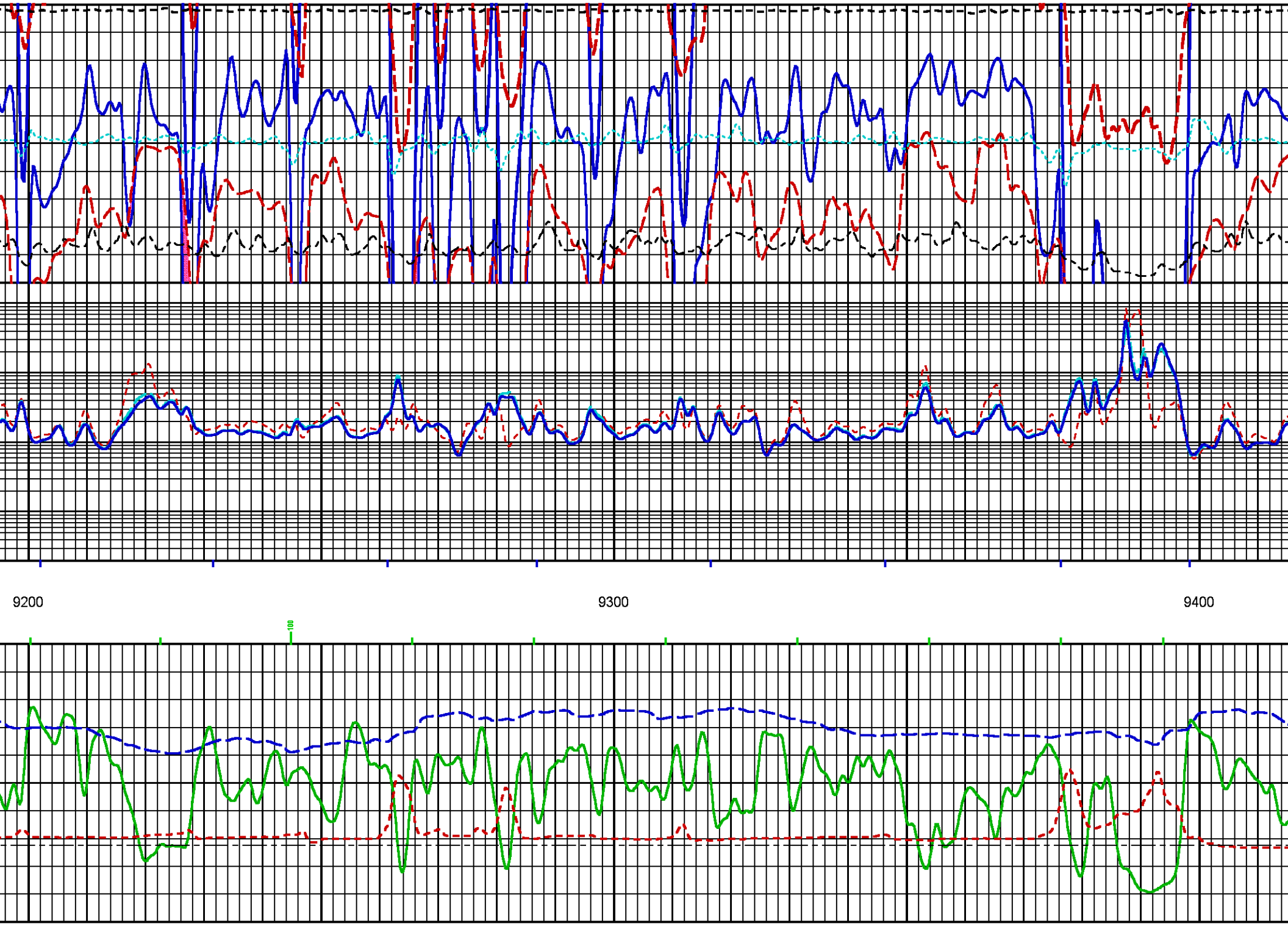
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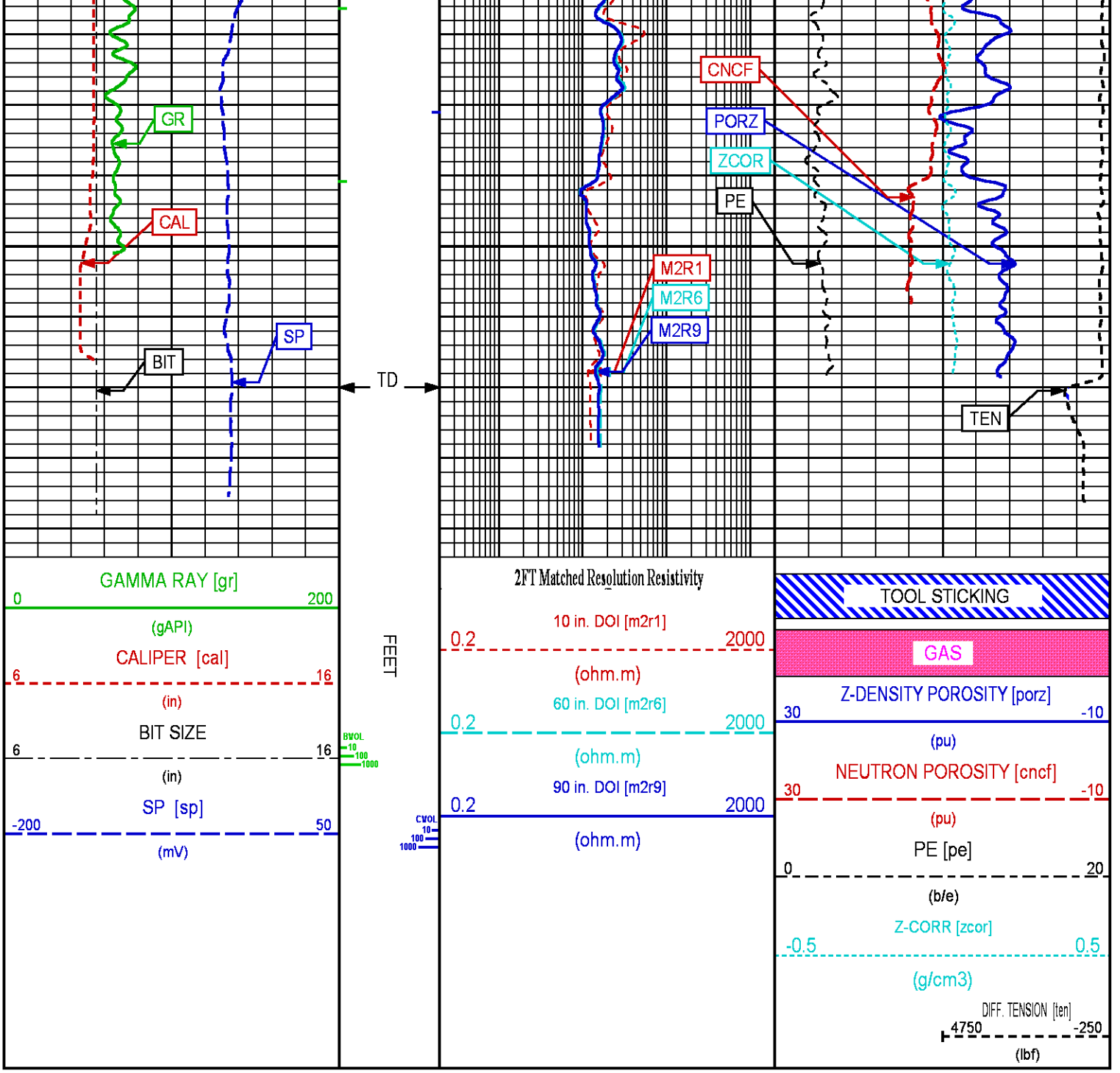


REPEAT LOG 5"/100FT SCALE

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
Updates: 1 Patches: 2

Plotted: Sat Sep 13 05:08:18 2014

PARAMETER AND FILTER SUMMARY REPORT

File:	/dat1a/90086J/n970a02.prm		
LOGGING MODE:	DEPTH	DIRECTION:	UP
TOP DEPTH:	2491.000 ft	BOTTOM DEPTH:	2831.498 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft) TOP	BOTTOM
GR MED RES	FILTER ()	medium (1)		TOP	BOTTOM
CALIPER	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
CN MED RES	FILTER ()	medium (1)		"	"
ZDL MED RES	FILTER (hrd1*)	medium		"	"
	FILTER (hrd1s*)	medium		"	"
	FILTER (hrd2*)	medium		"	"
	FILTER (hrd2s*)	medium		"	"
	FILTER (soft*)	medium		"	"
SP-SPDH	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft) TOP	BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	4.500	in	TOP	BOTTOM
	CASING THICKNESS	0.000	in	"	"
BIT SIZE	BIT SIZE	8.750	in	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		"	"
	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	8.750	in	"	"
	FIXED DIAMETER (mbh*)	8.750	in	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	66.9	degF	"	"
	MUD SAMPLE RES	1.140	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	66.9	degF	"	"
	at BH REF DEPTH	0.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"

ACCELERATION PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft) TOP	BOTTOM
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION ON		TOP	BOTTOM

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft) TOP	BOTTOM
CN MATRIX	2436 MATRIX	SANDSTONE		TOP	BOTTOM
CN BOREHOLE CORRECTION	SALINITY	1700	ppm	"	"
	BOREHOLE CORRECTION	ON		"	"
CN TOOL STANDOFF	ENABLE STANDOFF CORR	OFF		"	"
	STANDOFF AMOUNT	0.00	in	"	"
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE BEHIND CSNG	8.750	in	"	"

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft) TOP	BOTTOM
DENSITY POROSITY	Air Filled Borehole	NO		TOP	BOTTOM
	RHOmatrix	2.680	g/cm3	"	"
	RHOfluid	1.000	g/cm3	"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft) TOP	BOTTOM
HDIL TEMPERATURE CORRECTION	TEMP CORRECTION	ON		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	MUD CONDUCTIVITY		"	"
	STANDOFF	1.50	in	"	"
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000		"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Sep 13 02:59:50 2014	BIT SIZE
F1:BVOL	Sep 13 02:59:50 2014	BOREHOLE VOLUME
F1:CAL	Sep 13 02:59:50 2014	CALIPER

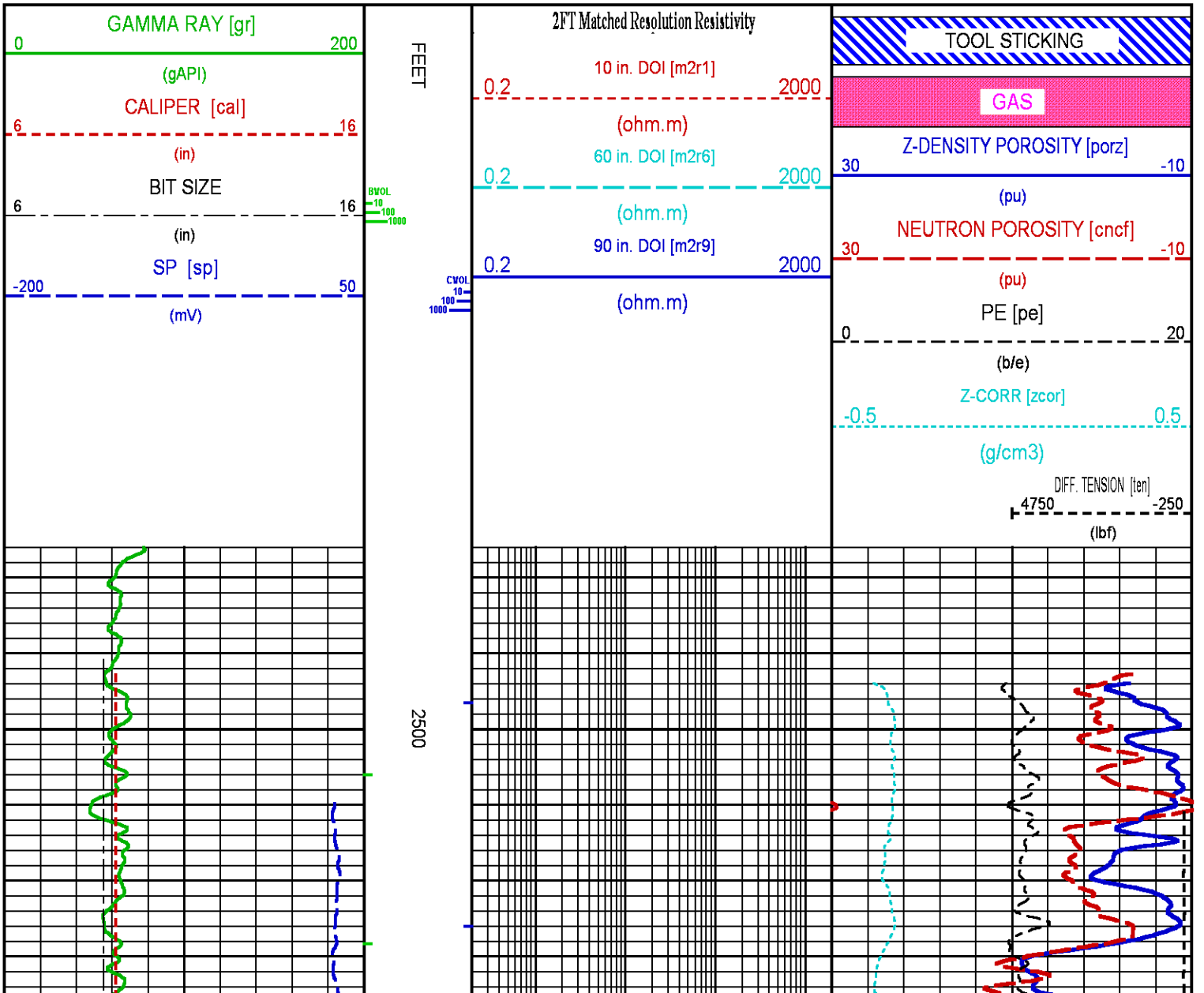
F1:CNCF	Sep 13 02:59:50 2014	FIELD NORMALIZED COMPENSATED NEUTRON POROSITY
F1:CVOL	Sep 13 02:59:50 2014	CEMENT VOLUME
F1:GR	Sep 13 02:59:50 2014	GAMMA RAY
F1:M2R1	Sep 13 02:59:50 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI
F1:M2R6	Sep 13 02:59:50 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	Sep 13 02:59:50 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:PE	Sep 13 02:59:50 2014	PHOTO ELECTRIC CROSS-SECTION
F1:PORZ	Sep 13 02:59:50 2014	POROSITY FOR SELECTABLE MATRIX
F1:SP	Sep 13 02:59:50 2014	SPONTANEOUS POTENTIAL
F1:TEN	Sep 13 02:59:50 2014	DIFFERENTIAL TENSION
F1:ZCOR	Sep 13 02:59:50 2014	DENSITY CORRECTION

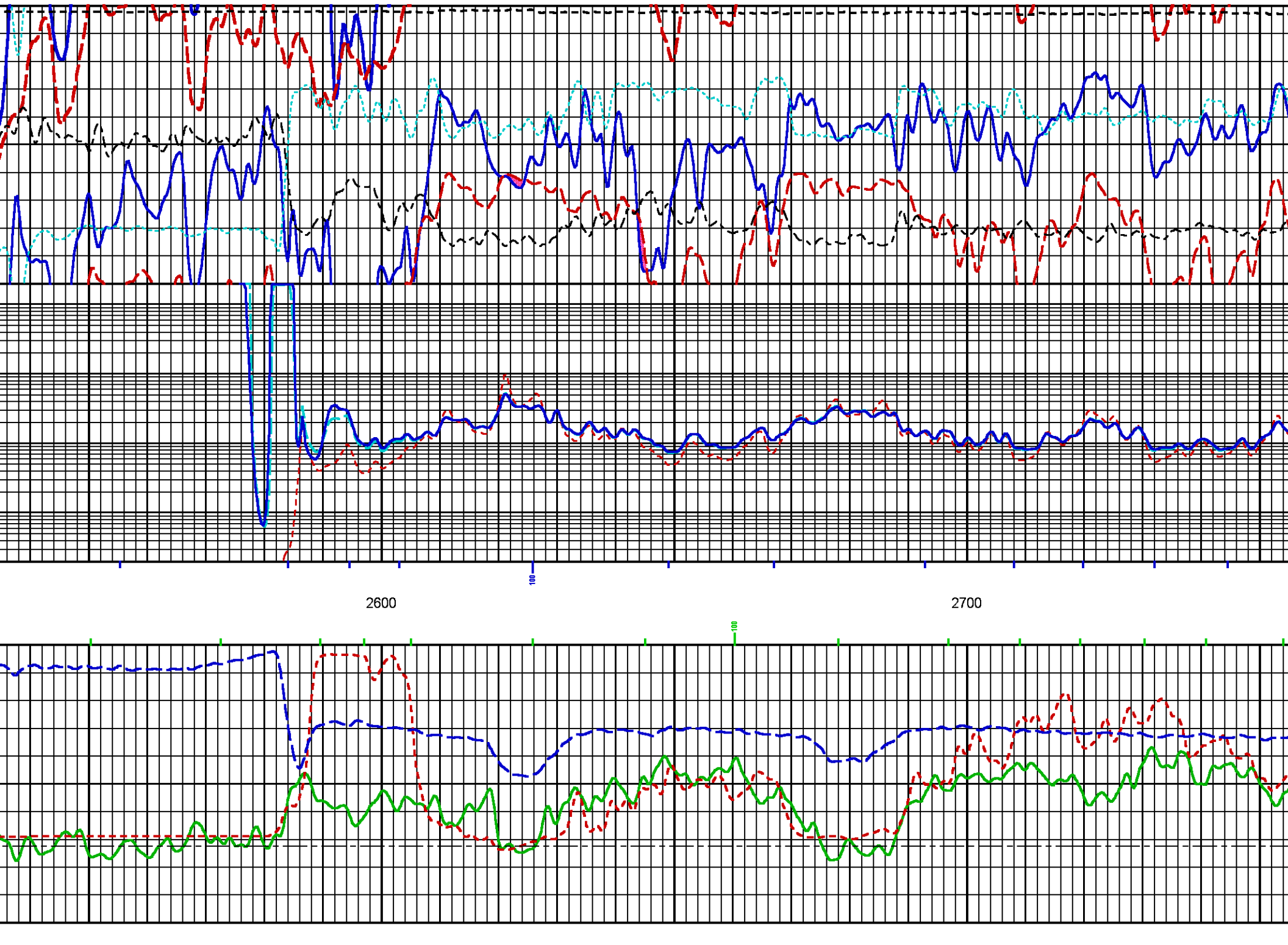
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
BIT	0.00	GR	35.00	M2R9	2.75	SP	1.25
CAL	18.12	M2R1	2.75	PE	18.00	TEN	0.00
CNCF	27.38	M2R6	2.75	PORZ	18.00	ZCOR	18.00

Presentation : cas6685:/dat1a/90086J/WPX_REPEAT.fvpdf [5"/100' Scale]
Plot Interval : 2476 - 2832.75 Feet

Data File 1 : F1 : cas6685:/dat1a/90086J/n970a02_REPEAT.xtf
Created On : Sep 13 02:59:50 2014
Company : WPX ENERGY INC
Well : AP 523-17-695
Field : PARACHUTE
File Interval : 0 - 2834 Feet
OCT : n970a

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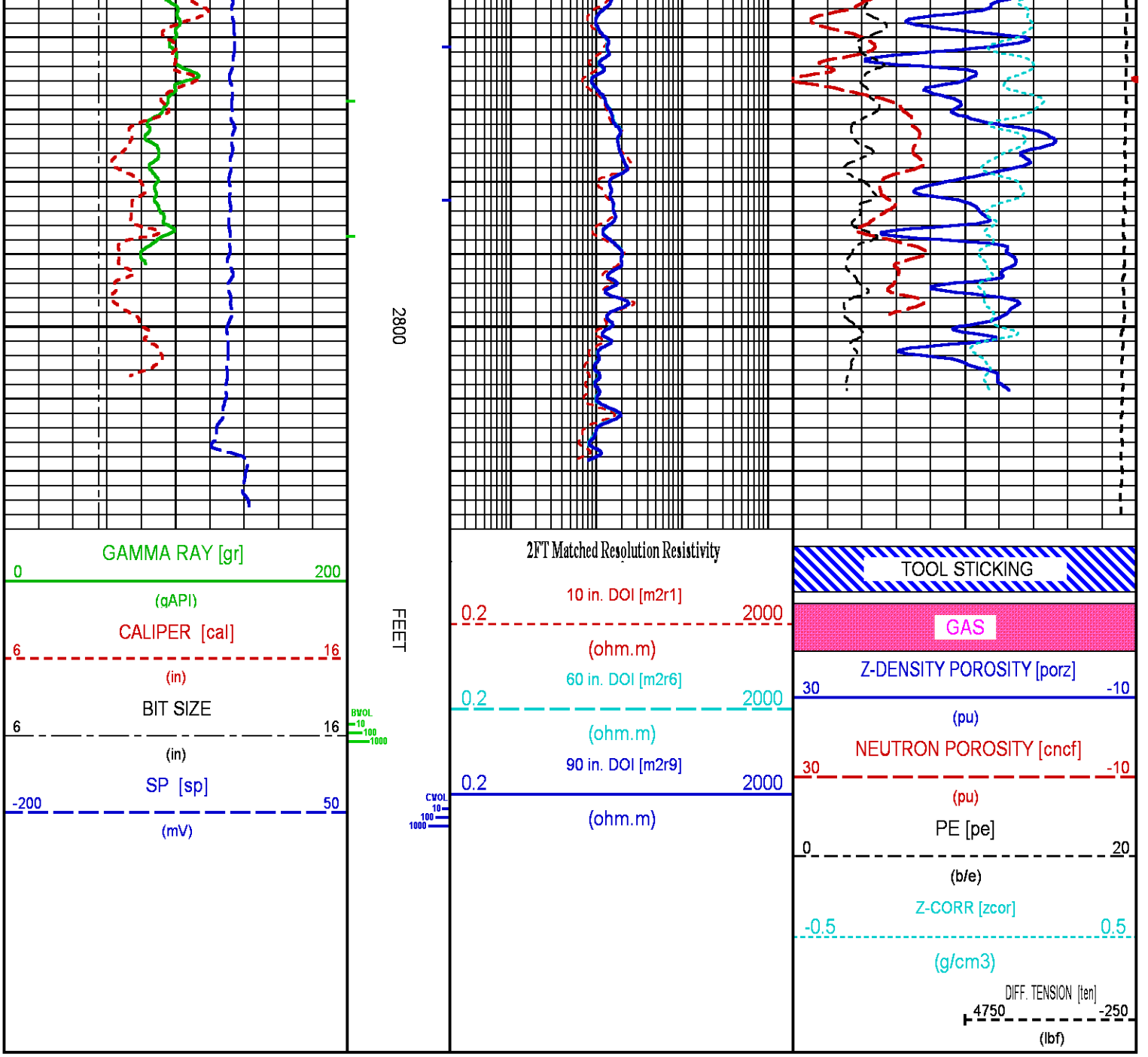


CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/90086J/n970a.tp1

TTMA PRIMARY CALIBRATION SUMMARY

TOOL #:	3980XA 10120299			DATE/TIME PERFORMED:	Wed Jul 31 10:29:42 2013
UNIT #:	3880TA HL6670	ACCEL #:	3980XA 10120299	ACCEL CAL DATE:	14:43 05/21/2004

	GAIN	OFFSET

		(ohm.m)
Rm K Factors	0.14570	-0.01679

	Sig Low (ohm)	Sig High (ohm)	Mult Factor	Add Factor	Engr Low (ohm)	Engr High (ohm)
Rm Measurements	0.25	9.97	1.003059	0.000362	0.25	10.00
	0.20 0.30	8.00 12.00				

TTMA BEFORE LOG VERIFICATION SUMMARY

TOOL #: 3980XA 10120299 DATE/TIME PERFORMED: Sat Sep 13 02:25:22 2014 DAYS SINCE CAL: 408

UNIT #: 3885TC 6685

	CHT (lbf)	MUD TEMP (degF)	RES M Q (ohm)	ACCEL Q
CAL	18821	498.04	9.97	997.35
	18030 19630	491.36 505.76	8.00 12.00	980.00 1020.00
ZERO	-23331	-436.02	0.249	997.353
	-24131 -22531	-443.20 -428.80	0.200 0.300	980.000 1020.000

TTMA AFTER LOG VERIFICATION SUMMARY

TOOL #: 3980XA 10120299 DATE/TIME PERFORMED: Sat Sep 13 06:32:37 2014 DAYS SINCE CAL: 408

UNIT #: 3885TC 6685

	CHT (lbf)	MUD TEMP (degF)	RES M Q (ohm)	ACCEL Q
CAL	18835	500.59	9.95	996.73
	18030 19630	491.36 505.76	8.00 12.00	980.00 1020.00
ZERO	-23331	-436.02	0.250	997.774
	-24131 -22531	-443.20 -428.80	0.200 0.300	980.000 1020.000

GR PRIMARY CALIBRATION SUMMARY

Tool #: 3518EG 10139870 DATE/TIME PERFORMED: Fri Aug 22 15:39:25 2014

Unit #: 3885TC 6685 Jig Series: 4702NK VBA-905

Background	Calibrator ON	Jig Value (gAPI)	Mult	Background (gAPI)	Calibrator ON (gAPI)
18.03	800.21	185	0.237	4.26	189.26
			0.230 0.280		

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 3518EG 10139870 DATE/TIME PERFORMED: Sat Sep 13 02:24:50 2014 DAYS SINCE CAL: 21

UNIT #: 3885TC 6685 Jig: INTRNL N/A

Counts	TEMP (degF)	HV (V)
976.67	55.79	1361.00
929.00 1027.00	536.00	1237.00 1512.00

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 3518EG 10139870 DATE/TIME PERFORMED: Sat Sep 13 06:32:26 2014 DAYS SINCE CAL: 21

UNIT #: 3885TC 6685 Jig: INTRNL N/A

Counts	TEMP (degF)	HV (V)
977.00	145.33	1372.83
929.00 1027.00	536.00	1237.00 1512.00

CN PRIMARY CALIBRATION SUMMARY

TOOL #: 2436XA 10137930 DATE/TIME PERFORMED: Tue Jul 1 11:37:32 2014

UNIT #: 3885TC 6685 CALIBRATOR #: 2437XB 112674 SOURCE #: 4718XA N-0897

SSN DT CPS	LSN DT CPS	SSN/LSN	MCF	CNRATIO	CN PU
4694.62	793.23	5.91832	0.96936	5.73700	25.241
			0.95000 1.05000		

CN BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2436XA 10137930 DATE/TIME PERFORMED: Sat Sep 13 02:25:12 2014 DAYS SINCE CAL: 73

UNIT #: 3885TC 6685 CALIBRATOR #: INTRNL N/A

SSN DT CPS	LSN DT CPS	SSN/LSN	TEMP (degF)	HV (V)	LV (V)
992.07	994.44	0.99762	44.6	1352.7	4.612
		0.95000 1.05000	280.4	1250.0 1450.0	4.300 5.000

CN AFTER LOG VERIFICATION SUMMARY

TOOL #: 2436XA 10137930 DATE/TIME PERFORMED: Sat Sep 13 06:32:29 2014 DAYS SINCE CAL: 73

UNIT #: 3885TC 6685 CALIBRATOR #: INTRNL N/A

SSN	LSN	SSN/LSN	TEMP	HV	LV

DT CPS	DT CPS		(degF)	(V)	(V)
992.07	994.44	0.99762	138.4	1367.4	4.612
		0.95000 1.05000	280.4	1250.0 1450.0	4.300 5.000

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2223XA 10123024 DATE/TIME PERFORMED: Mon Sep 8 12:47:58 2014

UNIT #: 3880TA HL6670

	SIZE (in)	VALUE	MULTIPLIER	ADD
SMALL RING (Arm)	7.000	1412.4		
LARGE RING (Arm)	11.000	2641.2	0.00326	2.40234
PAD CLOSED		1352.0	0.00250	-3.38000

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10123024 DATE/TIME PERFORMED: Sat Sep 13 02:54:16 2014 DAYS SINCE CAL: 4

UNIT #: 3885TC 6685

	VALUE	MULTIPLIER	ADD	SIZE (in)
ARM	2096.0	0.00326	2.40234	9.2
PAD	1480.0	0.00250	-3.38000	0.3

	ACTUAL (in)	MEASURED (in)
DIAMETER (arm+pad)	9.001	9.0
		8.6 9.4

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10123024 DATE/TIME PERFORMED: Sat Sep 13 06:33:34 2014 DAYS SINCE CAL: 4

UNIT #: 3885TC 6685

	VALUE	MULTIPLIER	ADD	SIZE (in)
ARM	2044.0	0.00326	2.40234	9.1
PAD	1432.0	0.00250	-3.38000	0.2

	ACTUAL (in)	MEASURED (in)
DIAMETER (arm+pad)	9.001	9.0 (8.6 – 9.4)

ZDL PRIMARY CALIBRATION SUMMARY

TOOL: 2223XA 10123024 DATE/TIME PERFORMED: Mon Sep 8 12:29:18 2014

UNIT: 3880TA HL6670 CALB BLKS: 2225XA 094292F CS SRC: 4705XA PP16068B PAD TYPE: PADTYP 7.5" PAD

SS CS PK (Channel)	LS CS PK (Channel)	SS_BKGD (cps)	LS BKGD (cps)
227.4 (220.0 – 230.0)	222.2 (220.0 – 230.0)	1340.3	1354.8

	SS (cps)	LS (cps)	SHR	DEN (g/cm3)	CORR (g/cm3)	PE (b/e)
MG (LO PE)	31207.4	11456.8	0.742 (0.720 – 0.890)	1.679	0.000	1.900
AL	19399.8	1276.9		2.667	-0.016	
AL + SHIM	25830.1	2206.5		2.558	0.098	
MG + SHIM (HI PE)	15215.0	5470.7	0.292 (0.280 – 0.360)			8.550
RATIO AL + SHIM/AL	1.33 (1.30 – 1.40)	1.73 (1.60 – 1.80)				
RATIO MG/AL	1.61 (1.58 – 1.70)	8.97 (8.55 – 9.55)				

ZDL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10123024 DATE/TIME PERFORMED: Sat Sep 13 06:31:10 2014 DAYS SINCE CAL: 4

UNIT #: 3885TC 6685

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	3342.1 (3332.1 – 3352.1)	223.7 (220.0 – 230.0)	1453.3 (1250.0 – 1550.0)
SS	22354.8 (22344.8 – 22364.8)	224.2 (220.0 – 230.0)	1328.0 (1250.0 – 1550.0)

LV (V)	PAD CURRENT (mA)
4.9 (4.8 – 5.2)	104.0 (50.0 – 120.0)

ZDL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10123024 DATE/TIME PERFORMED: Sat Sep 13 06:31:59 2014 DAYS SINCE CAL: 4

UNIT #: 3885TC 6685

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	3342.1 (3332.1 – 3352.1)	225.4 (220.0 – 230.0)	1453.5 (1250.0 – 1550.0)
SS	22354.6 (22344.8 – 22364.8)	224.4 (220.0 – 230.0)	1328.4 (1250.0 – 1550.0)

LV (V)	PAD CURRENT (mA)
4.9 (4.8 – 5.2)	107.8 (50.0 – 120.0)

HDIL PRIMARY CALIBRATION SUMMARY

TOOL #: 1530XA 10118612 DATE/TIME PERFORMED: Tue Jan 7 13:59:50 2014

UNIT #: 3880TA HL6670 GRCOND ID & DATE: 110 101801

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.0011 (-0.2000 0.2000)	0.0008 (-0.1000 0.1000)	-0.0007 (-0.1000 0.1000)	-0.0002 (-0.1000 0.1000)	-0.0002 (-0.1000 0.1000)	-0.0002 (-0.1000 0.1000)	0.0009 (-0.1000 0.1000)	0.0002 (-0.1000 0.1000)
Coil 0 Q	0.0004 (-0.5000 0.5000)	-0.0001 (-0.2000 0.2000)	-0.0003 (-0.1000 0.1000)	0.0002 (-0.1000 0.1000)	0.0002 (-0.1000 0.1000)	-0.0000 (-0.1000 0.1000)	0.0001 (-0.1000 0.1000)	-0.0006 (-0.1000 0.1000)
Coil 1 R	0.0082 (-0.2000 0.2000)	0.0019 (-0.1000 0.1000)	-0.0010 (-0.1000 0.1000)	0.0013 (-0.1000 0.1000)	-0.0016 (-0.1000 0.1000)	0.0011 (-0.1000 0.1000)	-0.0007 (-0.1000 0.1000)	0.0006 (-0.1000 0.1000)
Coil 1 Q	0.0032 (-0.5000 0.5000)	-0.0019 (-0.2000 0.2000)	0.0007 (-0.1000 0.1000)	0.0020 (-0.1000 0.1000)	-0.0006 (-0.1000 0.1000)	0.0004 (-0.1000 0.1000)	-0.0002 (-0.1000 0.1000)	0.0006 (-0.1000 0.1000)
Coil 2 R	0.0036 (-0.2000 0.2000)	-0.0014 (-0.1000 0.1000)	0.0009 (-0.1000 0.1000)	-0.0004 (-0.1000 0.1000)	0.0006 (-0.1000 0.1000)	0.0005 (-0.1000 0.1000)	-0.0008 (-0.1000 0.1000)	-0.0023 (-0.1000 0.1000)
Coil 2 Q	-0.0006 (-0.5000 0.5000)	0.0020 (-0.2000 0.2000)	0.0017 (-0.1000 0.1000)	0.0012 (-0.1000 0.1000)	0.0002 (-0.1000 0.1000)	-0.0029 (-0.1000 0.1000)	-0.0011 (-0.1000 0.1000)	-0.0014 (-0.1000 0.1000)
Coil 3 R	0.0267 (-0.3000 0.3000)	-0.0072 (-0.1000 0.1000)	0.0035 (-0.1000 0.1000)	0.0022 (-0.1000 0.1000)	0.0019 (-0.1000 0.1000)	0.0003 (-0.1000 0.1000)	-0.0004 (-0.1000 0.1000)	0.0038 (-0.1000 0.1000)
Coil 3 Q	0.0107 (-0.5000 0.5000)	-0.0026 (-0.2000 0.2000)	0.0015 (-0.1000 0.1000)	-0.0009 (-0.1000 0.1000)	0.0001 (-0.1000 0.1000)	0.0026 (-0.1000 0.1000)	-0.0002 (-0.1000 0.1000)	-0.0020 (-0.1000 0.1000)
Coil 4 R	0.0672 (-0.5000 0.5000)	-0.0023 (-0.2000 0.2000)	-0.0060 (-0.2000 0.2000)	0.0036 (-0.2000 0.2000)	-0.0064 (-0.2000 0.2000)	-0.0030 (-0.2000 0.2000)	0.0016 (-0.2000 0.2000)	-0.0012 (-0.2000 0.2000)
Coil 4 Q	0.0182 (-1.0000 1.0000)	-0.0158 (-0.4000 0.4000)	-0.0009 (-0.2000 0.2000)	-0.0024 (-0.2000 0.2000)	0.0023 (-0.2000 0.2000)	0.0017 (-0.2000 0.2000)	0.0060 (-0.2000 0.2000)	-0.0105 (-0.2000 0.2000)
Coil 5 R	0.1609 (-1.2000 1.2000)	0.0008 (-0.4000 0.4000)	-0.0374 (-0.4000 0.4000)	0.0079 (-0.4000 0.4000)	0.0037 (-0.4000 0.4000)	-0.0040 (-0.4000 0.4000)	0.0039 (-0.4000 0.4000)	0.0089 (-0.4000 0.4000)
Coil 5 Q	0.0881 (-1.5000 1.5000)	-0.0472 (-0.8000 0.8000)	-0.0025 (-0.4000 0.4000)	-0.0083 (-0.4000 0.4000)	0.0025 (-0.4000 0.4000)	-0.0156 (-0.4000 0.4000)	0.0062 (-0.4000 0.4000)	-0.0095 (-0.4000 0.4000)

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	161.55	160.12	157.25	152.96	147.31	140.33	132.13	122.75

Coil 0 M	161.55 136.00 186.00	160.12 134.00 184.00	157.25 131.00 181.00	152.96 126.00 176.00	147.31 122.00 170.00	140.33 118.00 161.00	132.13 112.00 150.00	122.75 105.00 139.00
Coil 0 P	7.692 6.000 9.000	25.312 21.000 30.000	42.497 35.000 50.000	59.645 49.000 71.000	76.792 63.000 91.000	93.942 77.000 109.000	111.112 92.000 130.000	128.223 106.000 151.000
Coil 1 M	281.61 238.00 328.00	279.28 235.00 325.00	274.54 230.00 320.00	267.48 225.00 312.00	258.14 218.00 302.00	246.57 208.00 288.00	232.86 196.00 266.00	217.14 184.00 244.00
Coil 1 P	7.582 6.000 9.000	25.040 21.000 30.000	42.056 35.000 51.000	59.044 49.000 71.000	76.043 63.000 92.000	93.075 78.000 112.000	110.151 93.000 130.000	127.218 107.000 151.000
Coil 2 M	568.98 479.00 659.00	564.17 474.00 654.00	554.44 463.00 643.00	539.80 450.00 622.00	520.50 432.00 602.00	496.50 412.00 572.00	468.12 390.00 540.00	435.51 359.00 499.00
Coil 2 P	7.769 6.000 9.000	25.508 21.000 31.000	42.830 35.000 51.000	60.121 49.000 71.000	77.437 63.000 92.000	94.775 76.000 115.000	112.170 92.000 135.000	129.548 105.000 155.000
Coil 3 M	921.55 772.00 1060.00	913.14 764.00 1050.00	896.22 752.00 1030.00	871.27 728.00 1010.00	838.32 700.00 970.00	797.74 665.00 925.00	749.97 628.00 868.00	695.43 589.00 799.00
Coil 3 P	7.878 6.000 10.000	25.828 21.000 30.000	43.358 35.000 51.000	60.833 49.000 72.000	78.288 63.000 93.000	95.758 76.000 114.000	113.213 90.000 135.000	130.598 104.000 156.000
Coil 4 M	1447.2 1210.0 1700.0	1433.8 1205.0 1690.0	1406.9 1180.0 1650.0	1366.8 1140.0 1590.0	1314.3 1120.0 1530.0	1249.3 1070.0 1450.0	1173.7 1000.0 1350.0	1088.7 942.0 1240.0
Coil 4 P	7.843 6.000 10.000	25.758 21.000 31.000	43.249 35.000 52.000	60.684 49.000 73.000	78.112 63.000 93.000	95.552 77.000 114.000	112.960 91.000 135.000	130.298 105.000 156.000
Coil 5 M	2940.6 2450.0 3450.0	2919.1 2420.0 3400.0	2873.2 2410.0 3320.0	2804.6 2350.0 3200.0	2711.8 2280.0 3080.0	2596.3 2150.0 2950.0	2459.1 2020.0 2750.0	2301.3 1870.0 2570.0
Coil 5 P	7.588 6.000 10.000	25.060 20.000 31.000	42.133 35.000 52.000	59.180 49.000 73.000	76.279 63.000 94.000	93.467 79.000 113.000	110.713 93.000 134.000	127.975 106.000 156.000

AM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-1078 -3200 940	-604 -1400 -20	-481 -930 -150	-419 -760 -160	-378 -660 -130	-347 -600 -120	-322 -550 -110	-302 -520 -92
Coil 0 Q	402 -15000 11000	-174 -5800 3800	-222 -3700 2100	-244 -2700 1400	-260 -2200 1000	-273 -1800 790	-285 -1600 620	-295 -1500 490
Coil 1 R	-162 -750 460	-154 -360 83	-139 -280 9	-129 -230 -10	-119 -200 -26	-111 -180 -35	-105 -160 -46	-99 -150 -49
Coil 1 Q	411 -3300 3300	85 -1100 960	26 -630 530	-2 -470 360	-17 -380 260	-28 -320 190	-35 -290 150	-40 -260 120
Coil 2 R	6.2 -85.0 76.0	-30.3 -64.0 -0.4	-34.2 -57.0 -12.0	-34.0 -51.0 -16.0	-31.7 -46.0 -17.0	-29.5 -42.0 -16.0	-27.5 -39.0 -15.0	-26.2 -37.0 -13.0
Coil 2 Q	379.1 -1500.0 1900.0	130.3 -500.0 610.0	75.8 -290.0 350.0	51.6 -220.0 260.0	38.3 -160.0 190.0	30.4 -140.0 160.0	26.0 -110.0 130.0	23.4 -99.0 120.0
Coil 3 R	1.9 -23.0 21.0	-7.4 -22.0 1.6	-9.0 -21.0 -1.3	-9.0 -20.0 -1.8	-8.8 -19.0 -2.0	-8.2 -19.0 -1.3	-7.9 -19.0 -0.8	-7.9 -19.0 -0.0
Coil 3 Q	103.0 -540.0 530.0	39.1 -180.0 180.0	26.3 -100.0 110.0	21.9 -71.0 81.0	20.3 -51.0 66.0	20.2 -37.0 58.0	20.9 -28.0 53.0	21.9 -21.0 51.0
Coil 4 R	-0.70 -18.00 13.00	-1.42 -12.00 2.70	-1.59 -11.00 1.50	-1.56 -9.80 0.52	-2.43 -9.90 0.96	-1.59 -10.00 1.50	-1.79 -11.00 2.30	-2.05 -11.00 2.60
Coil 4 Q	5.07 -250.00 280.00	3.70 -79.00 98.00	4.36 -43.00 64.00	5.61 -27.00 51.00	8.03 -18.00 46.00	8.73 -11.00 42.00	9.49 -5.50 42.00	11.43 -1.00 42.00
Coil 5 R	1.19 -56.00 51.00	0.37 -8.40 3.60	-0.06 -6.90 1.10	0.06 -6.90 1.20	-2.12 -9.30 2.90	-0.45 -14.00 6.30	-0.46 -19.00 9.60	-0.72 -24.00 13.00
Coil 5 Q	-0.39 -88.00 69.00	1.71 -26.00 27.00	3.02 -14.00 22.00	4.27 -7.00 22.00	1.68 -2.50 24.00	6.59 1.10 26.00	7.89 4.10 29.00	9.12 7.10 32.00

MM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	0.976 0.850 1.100	0.980 0.860 1.100	0.981 0.870 1.100	0.981 0.880 1.100	0.981 0.880 1.100	0.980 0.880 1.100	0.980 0.880 1.100	0.978 0.880 1.100
Coil 0 P	-0.096	-0.096	-0.020	0.030	0.078	0.069	0.113	0.109

	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500
Coil 1 M	0.970 0.850 1.100	0.973 0.860 1.100	0.974 0.870 1.100	0.975 0.880 1.100	0.974 0.880 1.100	0.973 0.880 1.100	0.973 0.880 1.100	0.972 0.880 1.100
Coil 1 P	-0.085 -1.500 1.500	-0.095 -1.500 1.500	-0.012 -1.500 1.500	0.043 -1.500 1.500	0.095 -1.500 1.500	0.098 -1.500 1.500	0.115 -1.500 1.500	0.127 -1.500 1.500
Coil 2 M	0.987 0.890 1.100	0.987 0.890 1.100	0.987 0.890 1.100	0.987 0.890 1.100	0.986 0.890 1.100	0.985 0.890 1.100	0.984 0.890 1.100	0.984 0.890 1.100
Coil 2 P	0.033 -1.500 1.500	0.049 -1.500 1.500	0.097 -1.500 1.500	0.124 -1.500 1.500	0.150 -1.500 1.500	0.154 -1.500 1.500	0.172 -1.500 1.500	0.170 -1.500 1.500
Coil 3 M	0.995 0.900 1.100	0.995 0.900 1.100	0.995 0.900 1.100	0.994 0.900 1.100	0.993 0.900 1.100	0.993 0.900 1.100	0.991 0.900 1.100	0.989 0.900 1.100
Coil 3 P	0.046 -1.500 1.500	0.080 -1.500 1.500	0.140 -1.500 1.500	0.194 -1.500 1.500	0.226 -1.500 1.500	0.270 -1.500 1.500	0.314 -1.500 1.500	0.300 -1.500 1.500
Coil 4 M	0.998 0.900 1.100	0.999 0.900 1.100	0.999 0.900 1.100	0.999 0.900 1.100	1.000 0.900 1.100	0.999 0.900 1.100	1.000 0.900 1.100	1.001 0.900 1.100
Coil 4 P	0.087 -1.500 1.500	0.100 -1.500 1.500	0.178 -1.500 1.500	0.247 -1.500 1.500	0.313 -1.500 1.500	0.408 -1.500 1.500	0.481 -1.500 1.500	0.553 -1.500 1.500
Coil 5 M	1.002 0.900 1.100	1.002 0.900 1.100	1.003 0.900 1.100	1.004 0.900 1.100	1.006 0.900 1.100	1.007 0.900 1.100	1.010 0.900 1.100	1.013 0.900 1.100
Coil 5 P	-0.239 -1.500 1.500	0.068 -1.500 1.500	0.253 -1.500 1.500	0.386 -1.500 1.500	0.534 -1.500 1.500	0.734 -1.500 1.500	0.857 -1.500 1.500	0.990 -1.500 1.500

PARMS	TCID 0	TCID 1	Cal Temp (degF)	T Factor
IDs	2.563	0.840	60.0	1.00

HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1530XA 10118612 DATE/TIME PERFORMED: Sat Sep 13 02:25:18 2014 DAYS SINCE CAL: 248

UNIT #: 3885TC 6685

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-0.001 -0.200 0.200	-0.000 -0.100 0.100	0.000 -0.100 0.100	-0.000 -0.100 0.100	-0.000 -0.100 0.100	-0.000 -0.100 0.100	-0.000 -0.100 0.100	-0.000 -0.100 0.100
Coil 0 Q	0.001 -0.500 0.500	0.000 -0.200 0.200	-0.001 -0.100 0.100	0.000 -0.100 0.100	-0.000 -0.100 0.100	0.000 -0.100 0.100	-0.000 -0.100 0.100	-0.000 -0.100 0.100
Coil 1 R	0.002 -0.200 0.200	0.003 -0.100 0.100	0.001 -0.100 0.100	0.000 -0.100 0.100	-0.001 -0.100 0.100	0.001 -0.100 0.100	-0.001 -0.100 0.100	0.001 -0.100 0.100
Coil 1 Q	0.003 -0.500 0.500	-0.000 -0.200 0.200	0.000 -0.100 0.100	0.001 -0.100 0.100	-0.000 -0.100 0.100	0.001 -0.100 0.100	0.000 -0.100 0.100	0.001 -0.100 0.100
Coil 2 R	0.004 -0.200 0.200	-0.002 -0.100 0.100	0.002 -0.100 0.100	0.001 -0.100 0.100	-0.001 -0.100 0.100	-0.000 -0.100 0.100	-0.001 -0.100 0.100	-0.001 -0.100 0.100
Coil 2 Q	-0.002 -0.500 0.500	0.000 -0.200 0.200	-0.003 -0.100 0.100	-0.001 -0.100 0.100	-0.000 -0.100 0.100	0.000 -0.100 0.100	-0.001 -0.100 0.100	0.001 -0.100 0.100
Coil 3 R	0.021 -0.300 0.300	-0.001 -0.100 0.100	-0.004 -0.100 0.100	-0.001 -0.100 0.100	0.001 -0.100 0.100	0.000 -0.100 0.100	-0.002 -0.100 0.100	0.001 -0.100 0.100
Coil 3 Q	0.003 -0.500 0.500	-0.003 -0.200 0.200	0.004 -0.100 0.100	0.001 -0.100 0.100	0.001 -0.100 0.100	0.003 -0.100 0.100	-0.002 -0.100 0.100	-0.006 -0.100 0.100
Coil 4 R	0.061 -0.500 0.500	-0.002 -0.200 0.200	0.004 -0.200 0.200	0.003 -0.200 0.200	-0.001 -0.200 0.200	0.004 -0.200 0.200	-0.001 -0.200 0.200	0.001 -0.200 0.200
Coil 4 Q	0.009 -1.000 1.000	-0.019 -0.400 0.400	0.006 -0.200 0.200	-0.001 -0.200 0.200	-0.005 -0.200 0.200	0.001 -0.200 0.200	-0.002 -0.200 0.200	-0.004 -0.200 0.200

Coil 5 R	0.116 -1.200 1.200	-0.003 -0.400 0.400	-0.002 -0.400 0.400	0.000 -0.400 0.400	-0.000 -0.400 0.400	-0.008 -0.400 0.400	0.009 -0.400 0.400	0.008 -0.400 0.400
Coil 5 Q	0.061 -1.500 1.500	-0.024 -0.800 0.800	0.005 -0.400 0.400	-0.009 -0.400 0.400	-0.004 -0.400 0.400	0.003 -0.400 0.400	0.006 -0.400 0.400	-0.003 -0.400 0.400

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	161.48 136.00 186.00	160.06 134.00 184.00	157.18 131.00 181.00	152.88 126.00 176.00	147.21 122.00 170.00	140.24 118.00 161.00	131.98 112.00 150.00	122.60 105.00 139.00
Coil 0 P	7.745 -1.000 12.000	25.336 19.000 30.000	42.524 35.000 50.000	59.673 49.000 71.000	76.826 63.000 91.000	93.979 77.000 110.000	111.128 92.000 130.000	128.273 105.000 151.000
Coil 1 M	281.25 237.00 327.00	278.92 235.00 325.00	274.16 230.00 320.00	267.11 225.00 312.00	257.75 218.00 302.00	246.19 208.00 288.00	232.41 196.00 266.00	216.67 184.00 244.00
Coil 1 P	7.639 -1.000 12.000	25.065 19.000 30.000	42.085 35.000 51.000	59.071 49.000 71.000	76.075 63.000 92.000	93.100 77.000 112.000	110.169 92.000 132.000	127.263 105.000 153.000
Coil 2 M	568.85 479.00 659.00	564.04 474.00 654.00	554.22 463.00 643.00	539.61 450.00 622.00	520.23 432.00 602.00	496.22 412.00 572.00	467.76 390.00 540.00	434.93 359.00 499.00
Coil 2 P	7.814 -1.000 12.000	25.526 19.000 31.000	42.851 35.000 51.000	60.146 49.000 71.000	77.457 63.000 92.000	94.801 77.000 114.000	112.187 92.000 135.000	129.580 105.000 156.000
Coil 3 M	921.14 772.00 1060.00	912.78 764.00 1050.00	896.00 752.00 1030.00	870.92 728.00 1010.00	837.78 700.00 970.00	797.18 665.00 925.00	749.16 628.00 868.00	694.77 589.00 799.00
Coil 3 P	7.926 -2.000 13.000	25.854 19.000 31.000	43.371 35.000 52.000	60.856 49.000 72.000	78.326 63.000 93.000	95.775 77.000 114.000	113.220 92.000 135.000	130.650 105.000 156.000
Coil 4 M	1446.9 1210.0 1700.0	1433.6 1205.0 1690.0	1406.7 1180.0 1650.0	1366.5 1140.0 1590.0	1313.7 1120.0 1530.0	1249.0 1070.0 1450.0	1172.9 1000.0 1350.0	1087.8 942.0 1240.0
Coil 4 P	7.892 -2.000 13.000	25.782 19.000 31.000	43.264 35.000 52.000	60.714 49.000 73.000	78.147 63.000 93.000	95.569 78.000 114.000	112.970 92.000 135.000	130.350 105.000 156.000
Coil 5 M	2940.6 2450.0 3450.0	2919.1 2420.0 3400.0	2872.9 2410.0 3320.0	2804.0 2350.0 3200.0	2711.3 2280.0 3080.0	2596.4 2150.0 2950.0	2457.3 2020.0 2750.0	2299.6 1870.0 2570.0
Coil 5 P	7.641 -2.000 13.000	25.081 19.000 31.000	42.145 35.000 52.000	59.206 49.000 73.000	76.313 63.000 94.000	93.495 79.000 114.000	110.740 93.000 135.000	127.994 106.000 156.000

HDIL AFTER LOG VERIFICATION SUMMARY

TOOL #: 1530XA 10118612 DATE/TIME PERFORMED: Sat Sep 13 06:33:03 2014 DAYS SINCE CAL: 248

UNIT #: 3885TC 6685

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.002 -0.081 0.079	0.001 -0.060 0.060	0.002 -0.030 0.030	-0.000 -0.030 0.030	-0.000 -0.030 0.030	0.000 -0.030 0.030	0.000 -0.030 0.030	0.000 -0.030 0.030
Coil 0 Q	0.003 -0.039 0.041	-0.001 -0.120 0.120	0.001 -0.031 0.029	0.000 -0.030 0.030	-0.000 -0.030 0.030	-0.000 -0.030 0.030	-0.001 -0.030 0.030	-0.000 -0.030 0.030
Coil 1 R	0.006 -0.078 0.082	-0.000 -0.047 0.053	-0.001 -0.029 0.031	0.000 -0.030 0.030	-0.001 -0.031 0.029	0.000 -0.029 0.031	-0.001 -0.031 0.029	0.001 -0.029 0.031
Coil 1 Q	0.005 -0.397 0.403	-0.000 -0.100 0.100	-0.000 -0.030 0.030	-0.001 -0.029 0.031	-0.001 -0.030 0.030	0.001 -0.029 0.031	-0.000 -0.030 0.030	0.000 -0.029 0.031
Coil 2 R	0.004 -0.066 0.074	-0.007 -0.032 0.028	-0.000 -0.028 0.032	-0.001 -0.029 0.031	-0.000 -0.031 0.029	0.001 -0.030 0.030	-0.002 -0.031 0.029	-0.002 -0.031 0.029
Coil 2 Q	-0.002 -0.352 0.348	0.007 -0.100 0.100	-0.001 -0.033 0.027	0.001 -0.031 0.029	0.003 -0.030 0.030	-0.000 -0.030 0.030	-0.002 -0.031 0.029	0.000 -0.029 0.031
Coil 3 R	0.024 -0.019 0.061	-0.001 -0.041 0.039	-0.003 -0.044 0.036	0.003 -0.041 0.039	-0.000 -0.039 0.041	-0.008 -0.040 0.040	0.002 -0.042 0.038	-0.003 -0.039 0.041

Coil 3 Q	0.004 -0.197 0.203	0.001 -0.083 0.077	0.002 -0.036 0.044	0.002 -0.039 0.041	0.000 -0.039 0.041	-0.002 -0.037 0.043	0.003 -0.042 0.038	0.002 -0.046 0.034
Coil 4 R	0.069 0.001 0.121	-0.004 -0.062 0.058	-0.006 -0.056 0.064	0.000 -0.057 0.063	-0.005 -0.061 0.059	-0.003 -0.056 0.064	-0.005 -0.061 0.059	-0.006 -0.059 0.061
Coil 4 Q	0.006 -0.291 0.309	-0.017 -0.119 0.081	0.004 -0.054 0.066	-0.000 -0.061 0.059	0.003 -0.065 0.055	0.001 -0.059 0.061	-0.007 -0.062 0.058	-0.005 -0.064 0.056
Coil 5 R	0.160 -0.004 0.236	0.003 -0.123 0.117	-0.002 -0.122 0.118	-0.016 -0.120 0.120	0.005 -0.120 0.120	-0.002 -0.128 0.112	0.003 -0.111 0.129	0.015 -0.112 0.128
Coil 5 Q	-0.004 -0.539 0.661	-0.031 -0.274 0.226	0.006 -0.115 0.125	-0.000 -0.129 0.111	-0.002 -0.124 0.116	-0.004 -0.117 0.123	0.001 -0.114 0.126	-0.011 -0.123 0.117

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	160.85 158.25 164.71	159.44 156.86 163.26	156.58 154.03 160.32	152.28 149.82 155.94	146.64 144.27 150.15	139.69 137.44 143.05	131.50 129.34 134.62	122.12 120.14 125.05
Coil 0 P	6.888 4.745 10.745	25.152 22.336 28.336	42.542 39.524 45.524	59.810 56.673 62.673	77.073 73.826 79.826	94.325 90.979 96.979	111.566 108.128 114.128	128.776 125.273 131.273
Coil 1 M	281.28 275.62 286.87	278.95 273.34 284.49	274.21 268.68 279.65	267.13 261.77 272.45	257.78 252.60 262.91	246.20 241.27 251.11	232.49 227.76 237.06	216.66 212.33 221.00
Coil 1 P	6.814 4.639 10.639	24.893 22.065 28.065	42.101 39.085 45.085	59.211 56.071 62.071	76.322 73.075 79.075	93.459 90.100 96.100	110.604 107.169 113.169	127.774 124.263 130.263
Coil 2 M	565.54 557.47 580.23	560.78 552.76 575.32	551.11 543.14 565.31	536.58 528.81 550.40	517.46 509.83 530.64	493.63 486.30 506.15	465.29 458.41 477.12	432.72 426.23 443.63
Coil 2 P	6.906 4.814 10.814	25.319 22.526 28.526	42.839 39.851 45.851	60.260 57.146 63.146	77.686 74.457 80.457	95.125 91.801 97.801	112.597 109.187 115.187	130.081 126.580 132.580
Coil 3 M	920.45 902.71 939.56	912.20 894.52 931.03	895.32 878.08 913.91	870.21 853.50 888.34	837.30 821.03 854.54	796.58 781.24 813.13	749.12 734.18 764.15	694.57 680.88 708.67
Coil 3 P	7.033 4.926 10.926	25.649 22.854 28.854	43.369 40.371 46.371	60.966 57.856 63.856	78.535 75.326 81.326	96.103 92.775 98.775	113.634 110.220 116.220	131.121 127.650 133.650
Coil 4 M	1450.1 1418.0 1475.9	1436.8 1404.9 1462.3	1409.6 1378.6 1434.8	1369.3 1339.1 1393.8	1316.1 1287.4 1339.9	1251.2 1224.0 1274.0	1174.7 1149.4 1196.3	1089.4 1066.0 1109.5
Coil 4 P	7.004 4.892 10.892	25.578 22.782 28.782	43.259 40.264 46.264	60.821 57.714 63.714	78.349 75.147 81.147	95.879 92.569 98.569	113.345 109.970 115.970	130.775 127.350 133.350
Coil 5 M	2927.5 2881.8 2999.4	2905.8 2860.7 2977.5	2860.4 2815.5 2930.4	2790.8 2747.9 2860.1	2698.8 2657.1 2765.5	2583.7 2544.4 2648.3	2445.6 2408.1 2506.4	2286.6 2253.6 2345.6
Coil 5 P	6.805 4.641 10.641	24.897 22.081 28.081	42.151 39.145 45.145	59.327 56.206 62.206	76.542 73.313 79.313	93.803 90.495 96.495	111.116 107.740 113.740	128.480 124.994 130.994

INSTRUMENT CONFIGURATION

Source File: /dat1a/90086J/n970a~~tdg

52.34'

FOCUS CABLEHEAD
- Diameter : 3.12"
- Length : 3.17'
- Weight : 15 lbs
- Series : CABL318
- Mnemonic : CBLH

FOCUS SWIVEL
- Diameter : 3.13"
- Length : 2.58'
- Weight : 50 lbs
- Series : 3950XA
- Mnemonic : SWVL

FOCUS TEN/TEMP/MUD RES/ACCEL
- Diameter : 3.13"
- Length : 4.31'
- Weight : 61 lbs
- Series : 3980XA

Series : 3980XA
Mnemonic : TTMA

FOCUS TELEMETRY (POWER SECTION)
Diameter : 3.13"
Length : 3.71'
Weight : 48 lbs
Series : 3518FB
Mnemonic : TMGR

FOCUS EB/EG TELEMETRY GAMMA RAY
Diameter : 3.12"
Length : 5.83'
Weight : 63 lbs
Series : 3518EG
Mnemonic : GR
Measure Point: 4.24': GR MP

FOCUS COMPENSATED NEUTRON
Diameter : 3.13"
Length : 4.81'
Weight : 65 lbs
Series : 2436XA
Mnemonic : CN
Measure Point: 1.92': LSN MP
Measure Point: 1.46': SSN MP

FOCUS Z-DENSILOG
Diameter : 3.75"
Length : 9.58'
Weight : 200 lbs
Series : 2223XA
Mnemonic : ZDL
Measure Point: 4.33': CR1 MP
Measure Point: 1.69': LSD / CR2 MP
Measure Point: 1.29': SSD MP

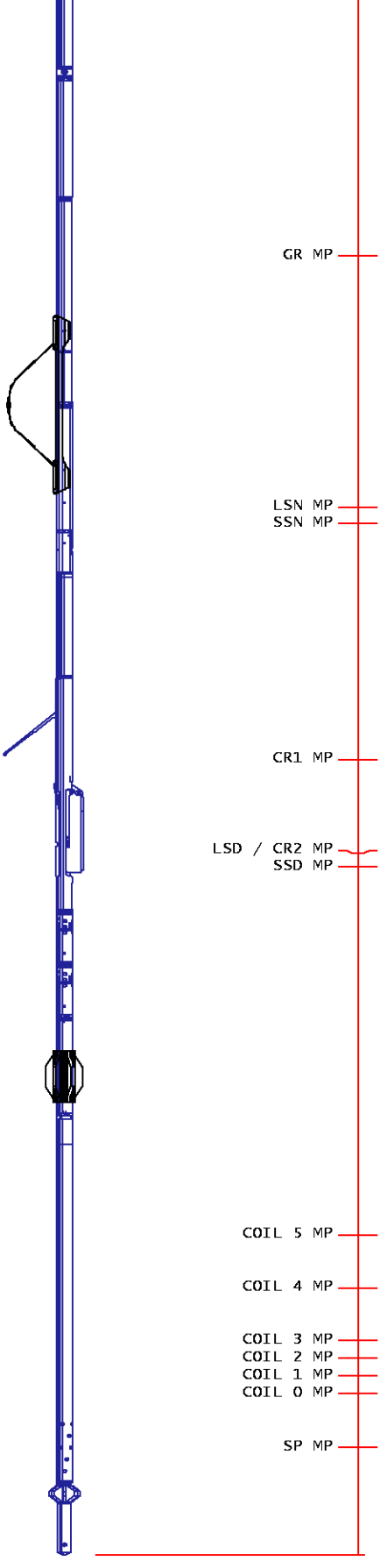
FOCUS KNUCKLE JOINT
Diameter : 3.13"
Length : 1.50'

FOCUS KNUCKLE JOINT
Diameter : 3.13"
Length : 1.50'

FOCUS HIGH DEFINITION INDUCTION TOOL
Diameter : 3.13"
Length : 13.33'
Weight : 115 lbs
Series : 1530XA
Mnemonic : HDIL
Measure Point: 7.17': COIL 5 MP
Measure Point: 5.67': COIL 4 MP
Measure Point: 4.17': COIL 3 MP
Measure Point: 3.67': COIL 2 MP
Measure Point: 3.17': COIL 1 MP
Measure Point: 2.67': COIL 0 MP
Measure Point: 1.14': SP MP

FOCUS PINEAPPLE / CABBAGE
HOLE FINDER
Diameter : 2.62"
Length : 1.50'

TOTAL LENGTH: 52.34'
TOTAL WEIGHT: 756 lbs
MAX DIAMETER: 0'6.13"



BAKER HUGHES

COMPANY WPX ENERGY INC
WELL AP 523-17-695
FIELD PARACHUTE
COUNTY GARFIELD STATE COLORADO

FILE NO: US090086
API NO: 05045213790000

HUGHES

FOLIPS

LOCATION:

SHL: 23' FNL 2497' FWL
BHL: 1571' FSL 2220' FWL

SEC 17 TWP 6S RGE 95W

ELEVATIONS:

KB 6935 FT
DF
GL 6909 FT

SEC 17 T6S R95W
AP 21-20-695
RIG: NABORS 573

DATE 13-SEP-2014