



HIGH DEFINITION INDUCTION LOGSM
GAMMA RAY LOG

FILE NO:

COMPANY

WOODFORD PETROLEUM

WELL

COBANK 13-18

API NO:

FIELD

WILDCAT

05-073-06743-00

COUNTY

LINCOLN

STATE COLORADO

Ver. 4.13

LOCATION:

645' FSL & 475' FWL
SW SW

OTHER SERVICES

SEC 18 TWP 15S RGE 54W

DAL/GR
ZDL/CN/GR
BHP
ML/GR

PERMANENT DATUM

GL

ELEVATION

5071 FT

LOG MEASURED FROM

KB

18 FT

ABOVE P.D.

DRILL. MEAS. FROM

KB

ELEVATIONS:

KB 5089 FT
DF 5087 FT
GL 5071 FT

DATE

14-Dec-2019

RUN

TRIP

1

1

SERVICE ORDER

US159799

DEPTH DRILLER

7650 FT

DEPTH LOGGER

7646 FT

BOTTOM LOGGED INTERVAL

7538 FT

TOP LOGGED INTERVAL

477 FT

CASING DRILLER

13.375 IN

@ 483 FT

CASING LOGGER

477 FT

BIT SIZE

7.875 IN

TYPE OF FLUID IN HOLE

WBM

DENSITY

9.1 LB/G

56 CP

PH

10

9 C3

SOURCE OF SAMPLE

FLOWLINE

RM AT MEAS. TEMP.

1.510 OHMM

@ 75 DEGF

RMF AT MEAS. TEMP.

1.13 OHMM

@ 75 DEGF

RMC AT MEAS. TEMP.

1.88 OHMM

@ 75 DEGF

SOURCE OF RMF

RMC

CALCULATED

RM AT BHT

0.661 OHMM

@ 180 DEGF

TIME SINCE CIRCULATION

10.5 HRS

MAX. RECORDED TEMP.

182.9 DEGF

EQUIP. NO.

HL6670

OKC

RECORDED BY

B. BURT

WITNESSED BY

MR. RANDY SAY

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.

REMARKS

RUN 1 TRIP 1: ** 1 OPERATION IN WELL **
ML/HDIL/DAL/ZDL/CN/GR RUN IN COMBINATION

Z DENSITY LOG AND COMPENSATED NEUTRON RECORDED ON LIMESTONE MATRIX
CNC BOREHOLE AND SALINITY CORRECTED
RHO=2.71

ACOUSTIC POROSITY RUN ON LIMESTONE MATRIX
DT FLUID= 189.6 US/FT DT MATRIX= 47.6 US/FT

BVOL & CVOL CALCULATED IN CUBIC FEET
CVOL CALCULATED FOR PROPOSED 5.5" CASING
CALIPER VERIFIED IN CASING

RIG: #120
CREW: K. REED, D. DUTCHISON

THANK YOU FOR CHOOSING BAKER HUGHES!!

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	TTRM	3981XA	10045153	FREE
1	1	COM	3514XC	12367091	DECENTRALIZED
1	1	DGR	1329XB	Z179184	DECENTRALIZED
1	1	CN	2446XA	10162846	DECENTRALIZED
1	1	ZDL	2234XA	Z11537	PAD DEVICE
1	1	DBKJ	3939XA	Z186262	FREE
1	1	ACCOM	1677EA	10192401	FREE
1	1	DAL	1680EA	151555	CENTRALISZD
1	1	ELCT/MAND	1515 EA/MA	10059243/179553	1.5" STANDOFF
1	1	ML	1243XA	10626690	PAD DEVICE

MAIN LOG 2"/100FT SCALE

ECLIPS 7.0i ECLIPS General Release Rel 7.0i Thu Jun 08 20:36:10 CDT 2017
 Updates: 1,32 Patches: 3

Plotted: Sun Dec 15 12:06:49 2019

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/K3_COBANK_13_18/MSALM_DAL_ML_XC02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 396.000 ft BOTTOM DEPTH: 7559.000 ft

SYMMETRIC FILTER

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

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
X-Y COMBINED CALIPER PROCESSING	X-Y Caliper	X-Axis		TOP	BOTTOM
BIT SIZE	BIT SIZE	7.875	in	"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	77.0	degF	"	"
	MUD SAMPLE RES	1.000	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	77.0	degF	"	"
	at BH REF DEPTH	0.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	7.875	in	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTEMP		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	BOREHOLE SIZE		TOP	6756.000
		MUD CONDUCTIVITY		6756.000	BOTTOM
	STANDOFF	1.50	in	TOP	BOTTOM
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000		"	"
HDIL High RESISTIVITY Normalization	VRM Norm	ON		"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:GR	Dec 15 07:07:40 2019	GAMMA RAY

F1:M0R2 Dec 15 07:07:40 2019
F1:M0R6 Dec 15 07:07:40 2019
F1:M2CCX Dec 15 07:07:40 2019
F1:SP Dec 15 07:07:40 2019

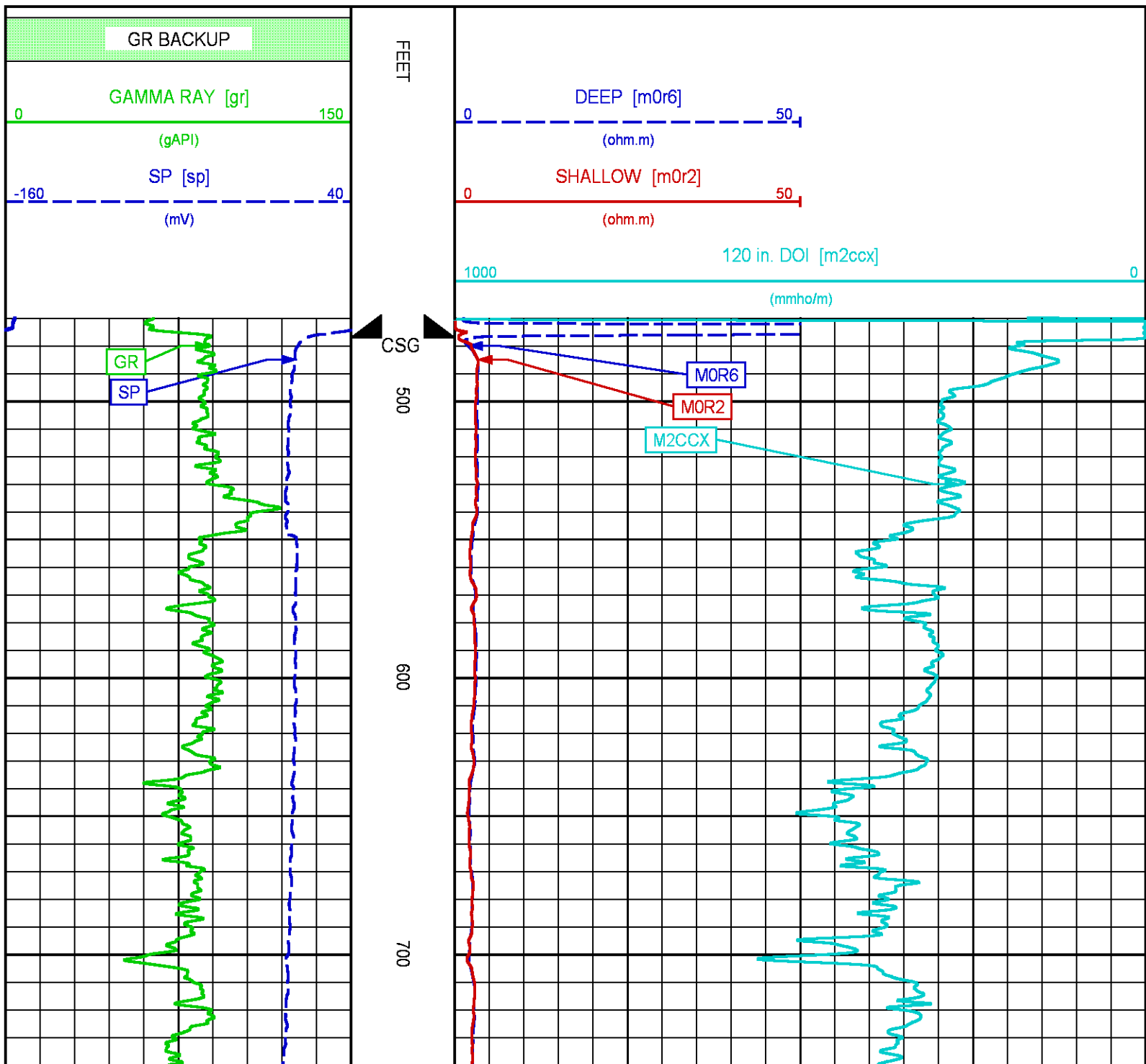
TRUE FOCUSED RESISTIVITY FOR HDIL, 20-INCH DOI
TRUE FOCUSED RESISTIVITY FOR HDIL, 60-INCH DOI
HDIL 2-FOOT RESOLUTION COMPRESSED CONDUCTIVITY, 120-INCH DOI
SPONTANEOUS POTENTIAL

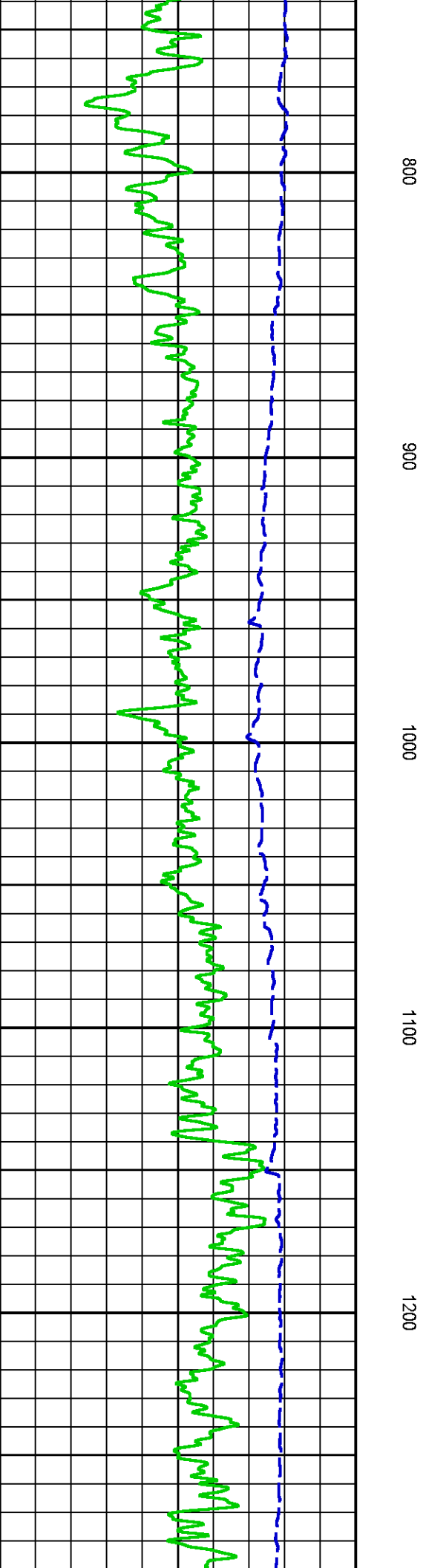
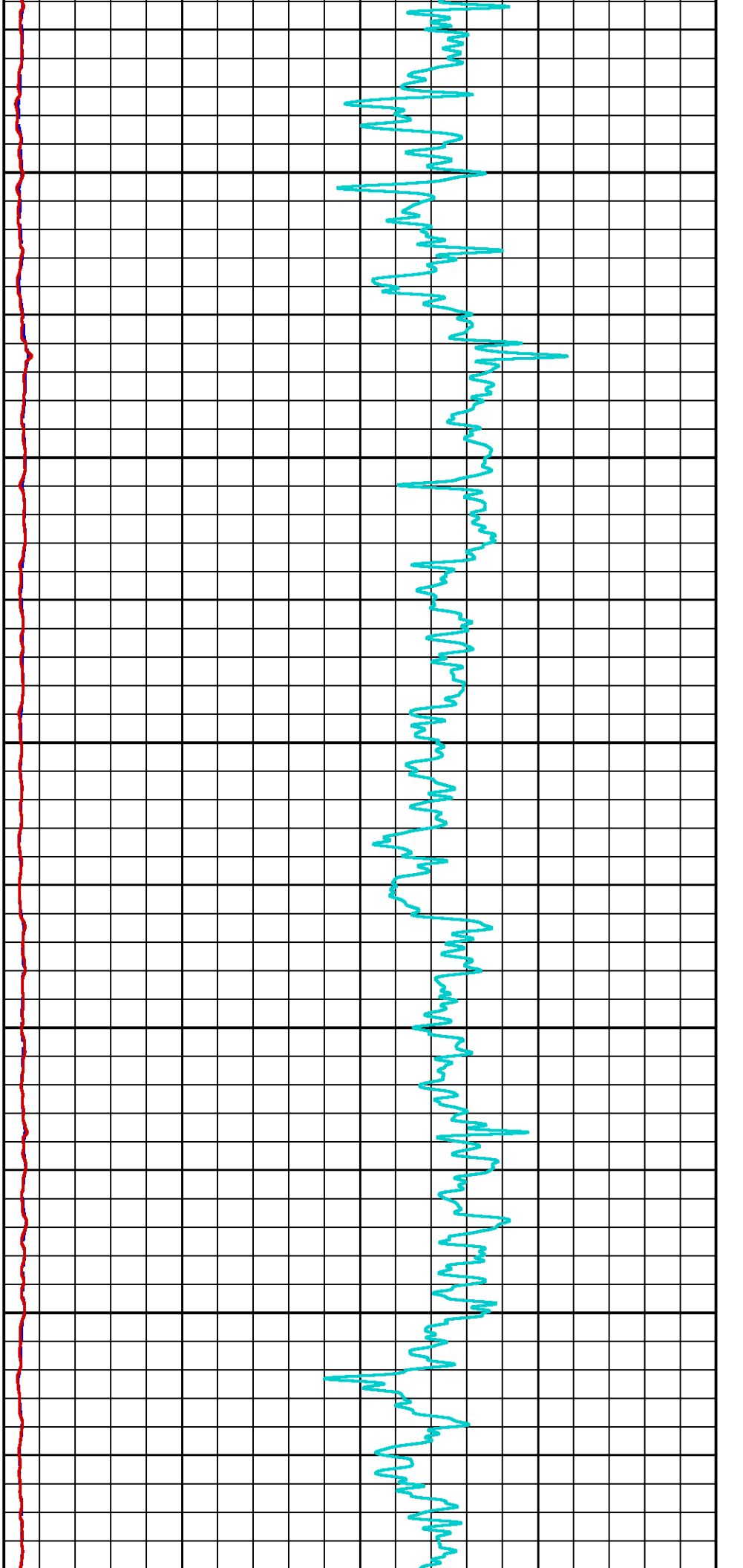
CURVE MEASURE POINT OFFSET

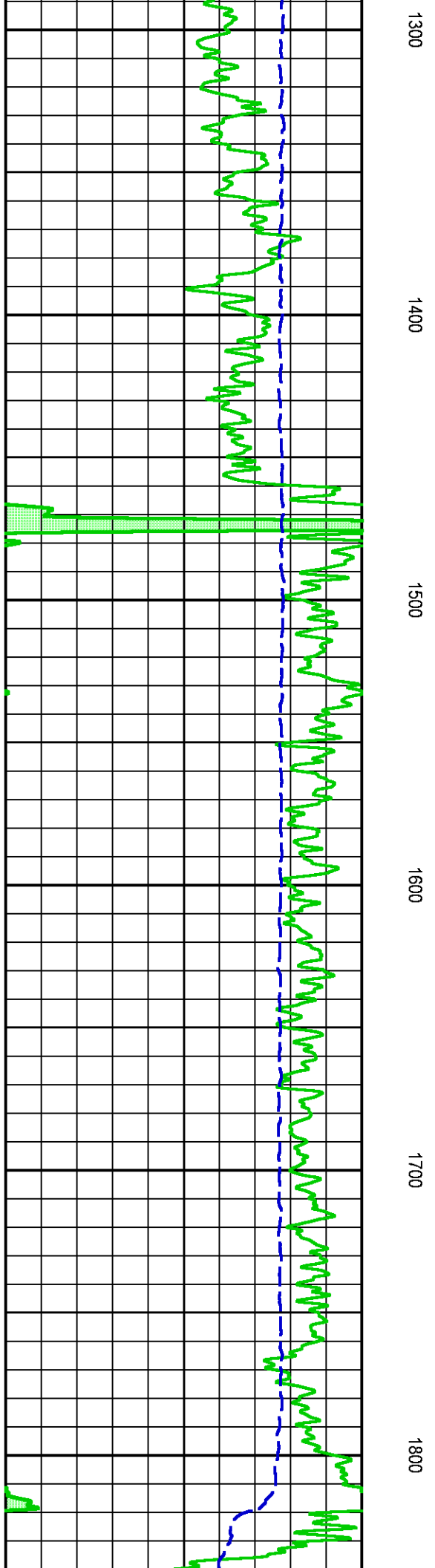
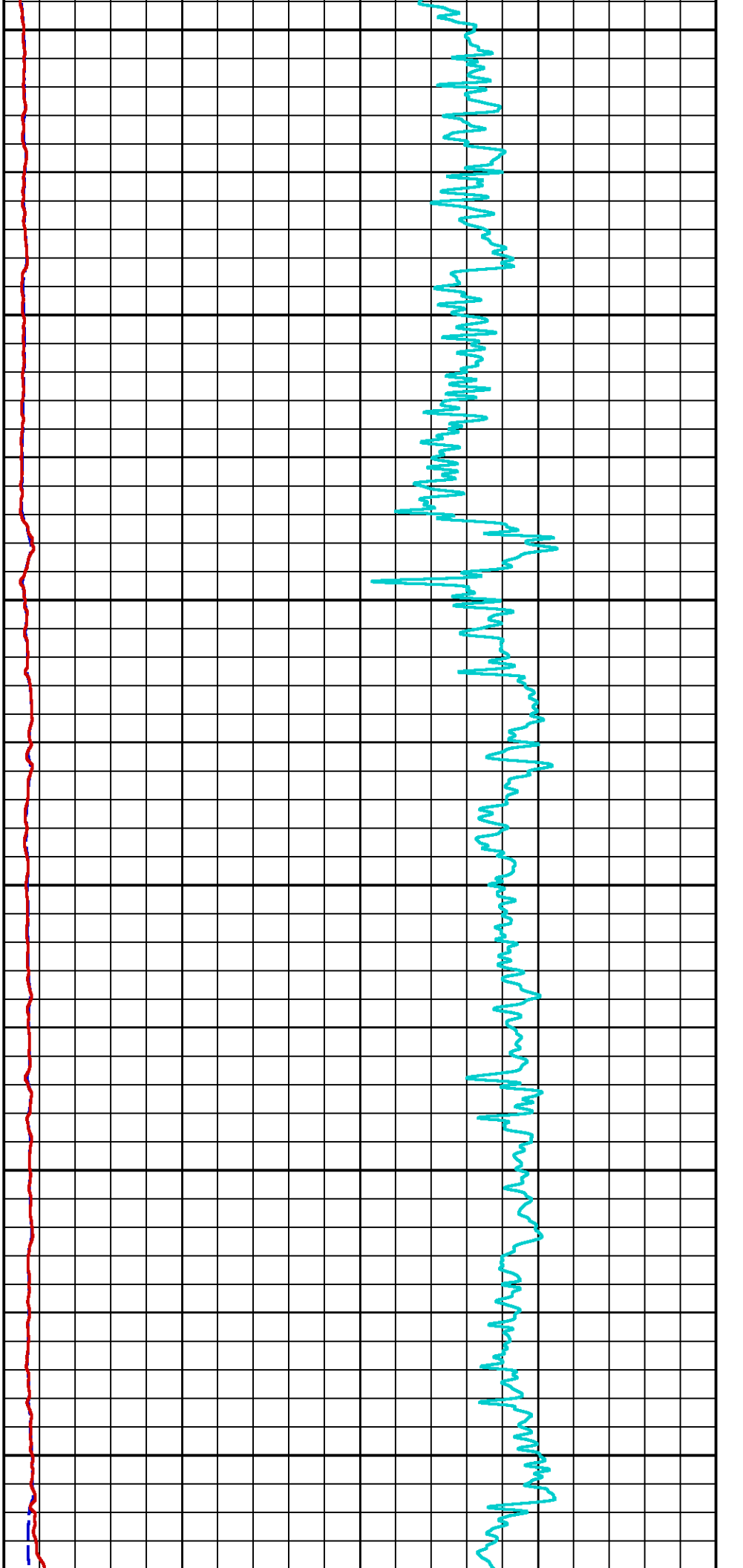
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
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M0R2	-19.25	M2CCX	-19.25				

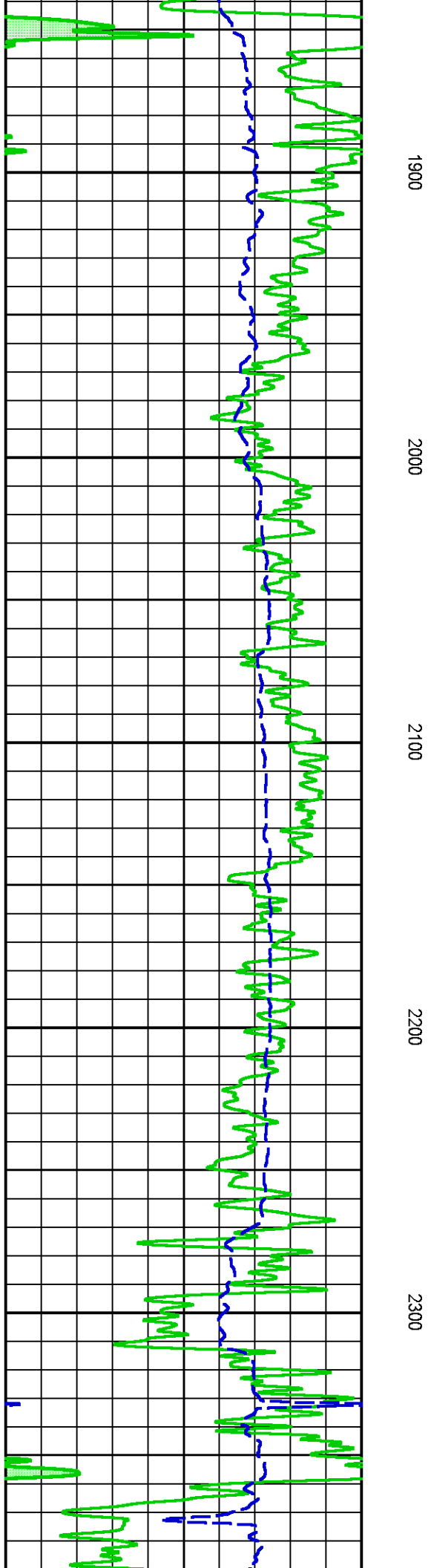
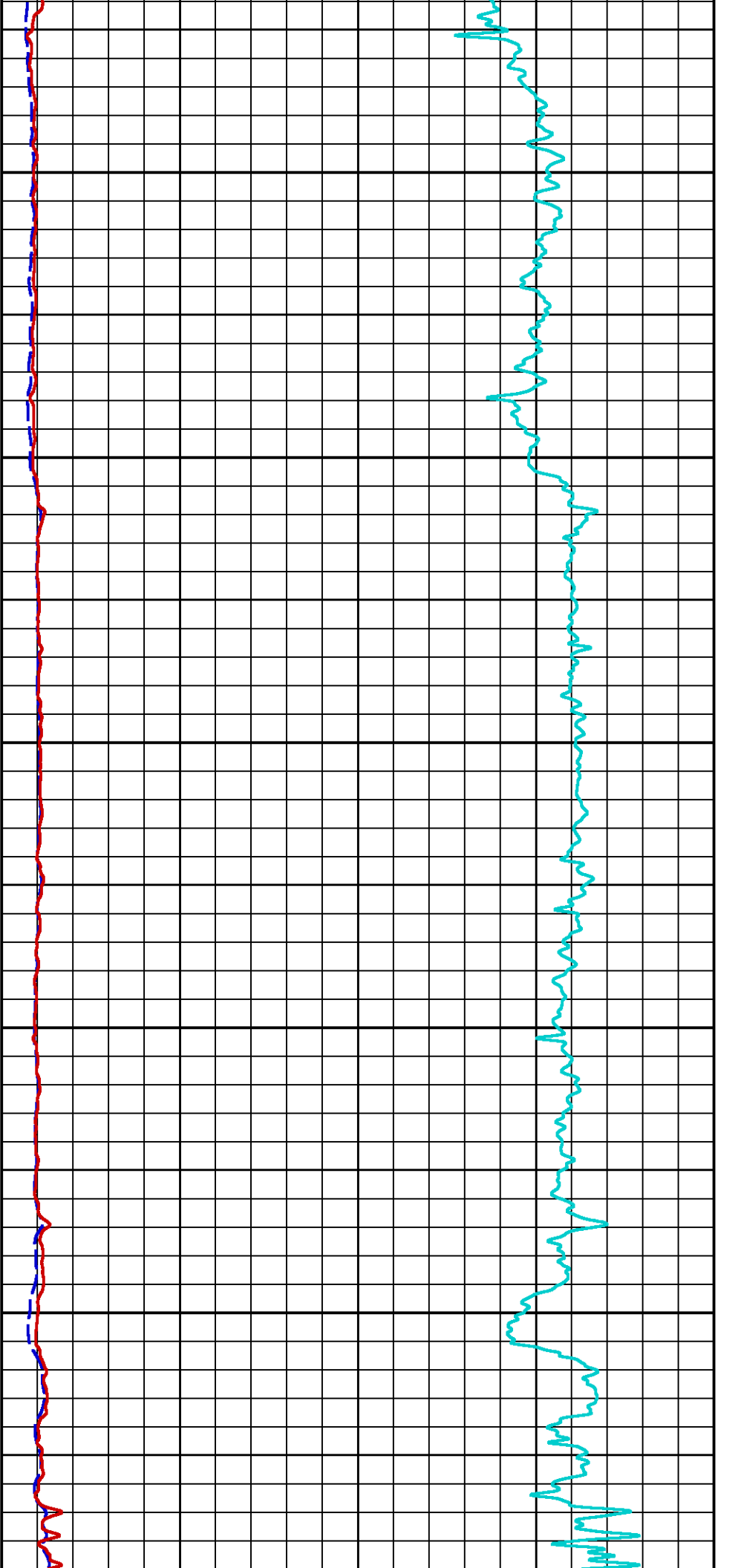
Presentation : cpu6728:/dat1a/K3_COBANK_13_18/HDIL2IN.fvpdf [2"/100' Scale]
Plot Interval : 470 - 7557.75 Feet

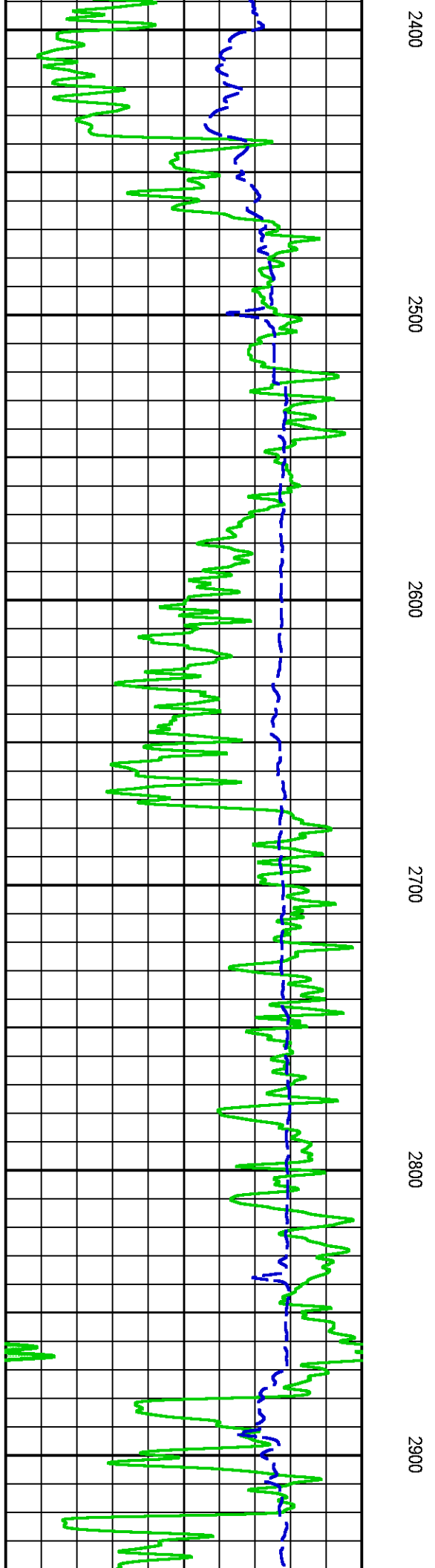
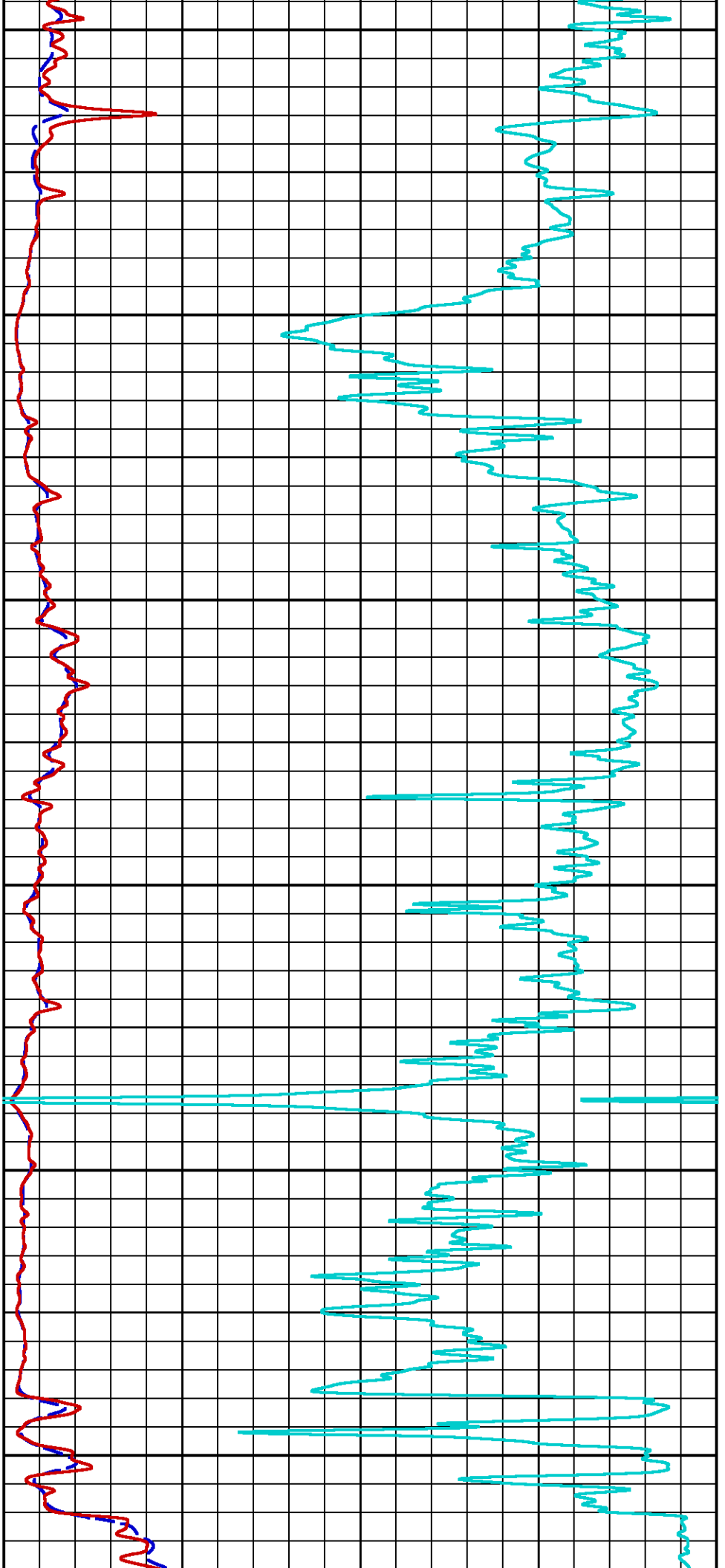
Data File 1 : F1 : cpu6728:/dat1a/K3_COBANK_13_18/MAIN.xtf
Created On : Dec 15 07:07:40 2019
Company : WOODFORD PETROLEUM
Well : COBANK 13-18
Field : XXXXX
File Interval : 298.5 - 7559 Feet
OCT : MSALM_DA

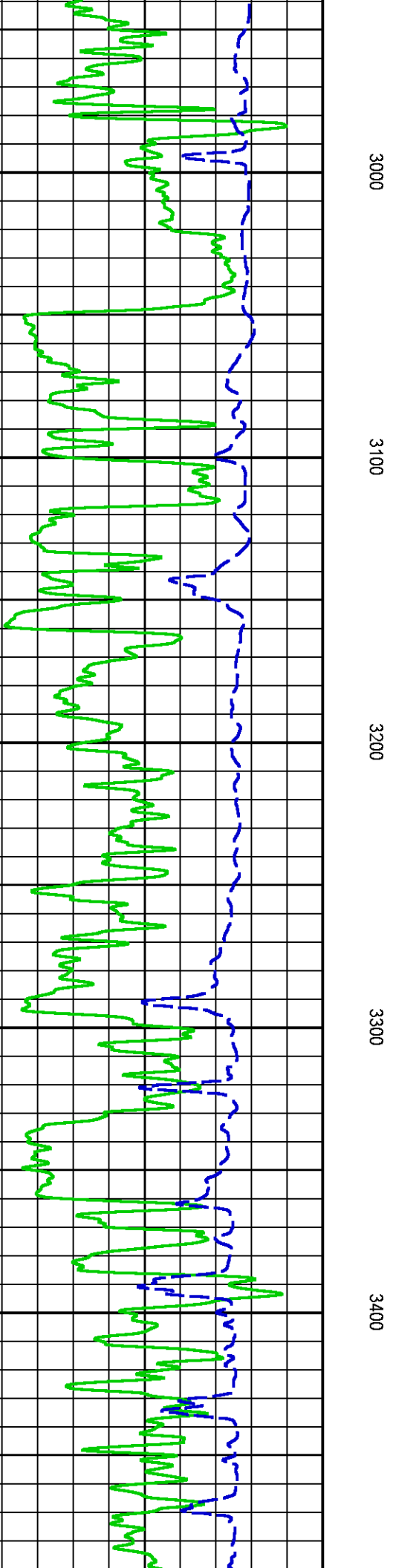
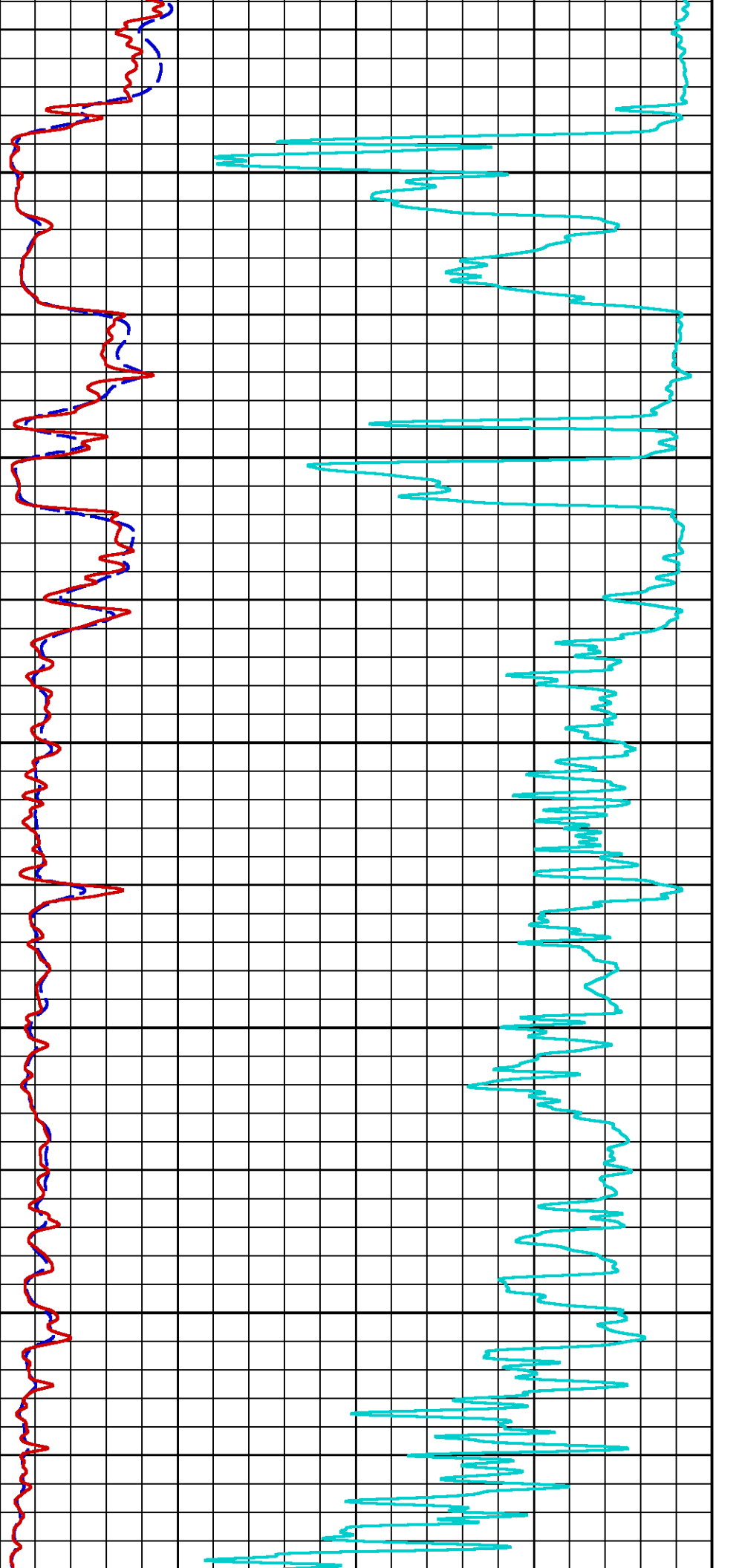


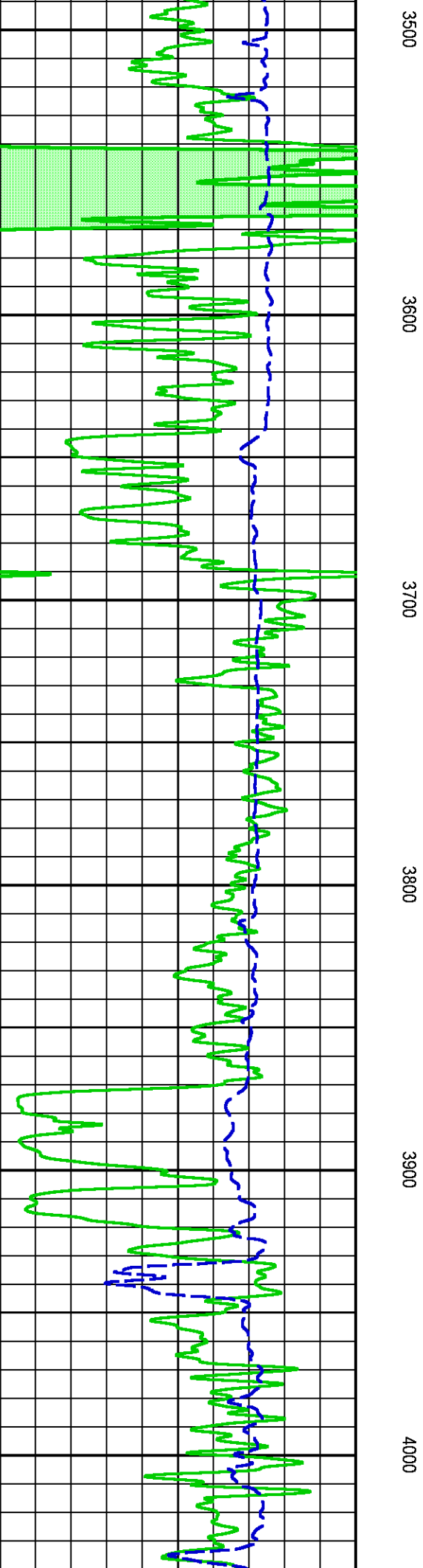
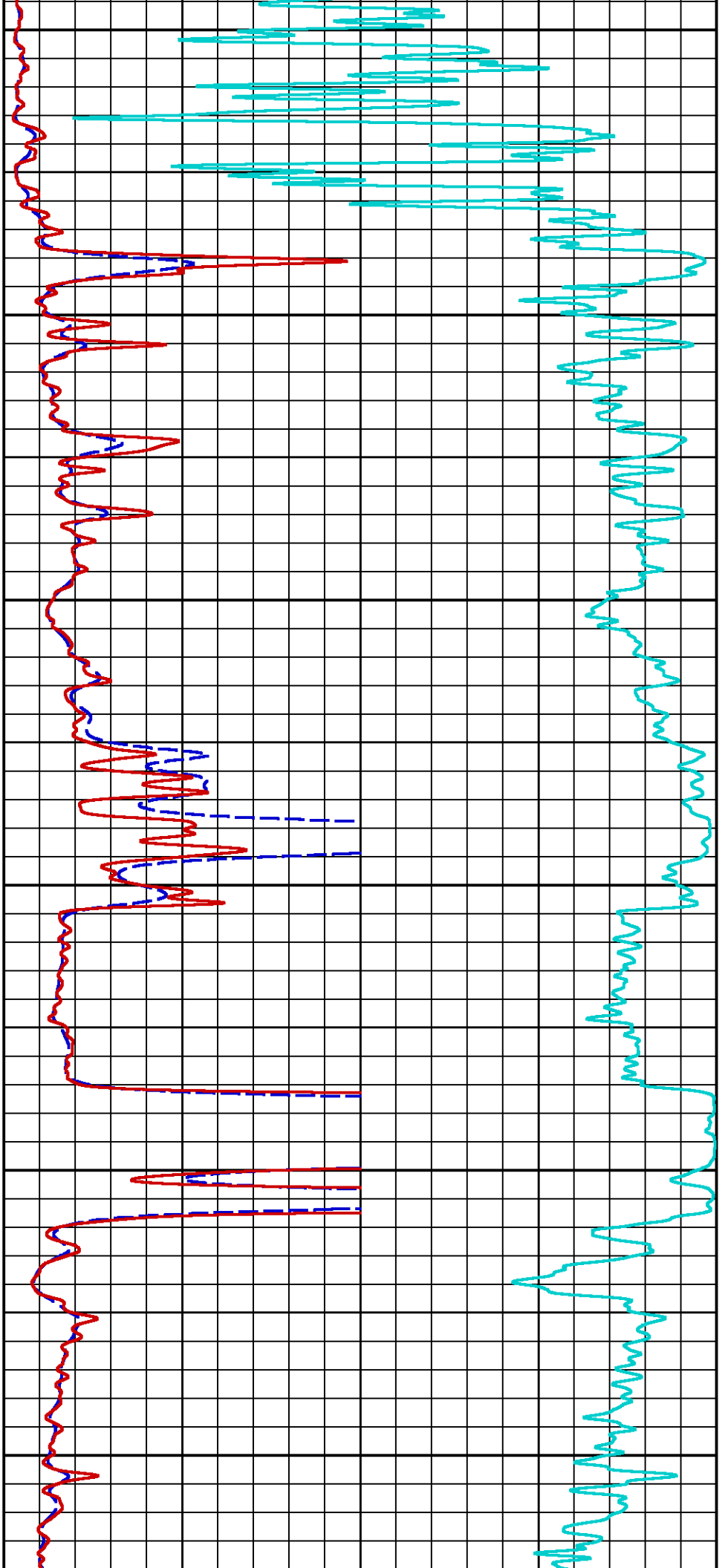


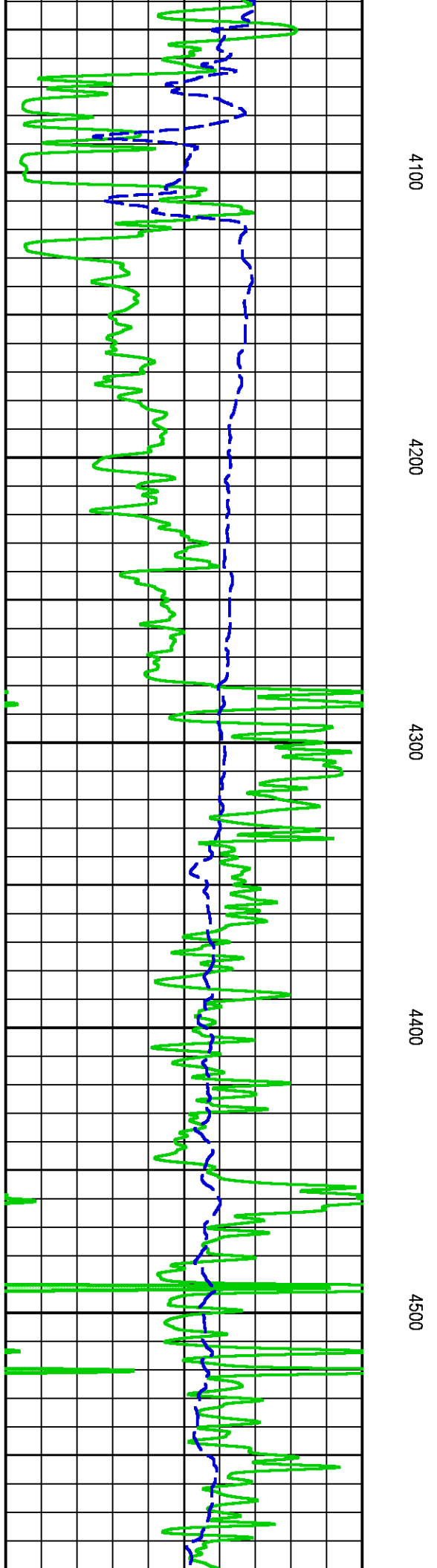
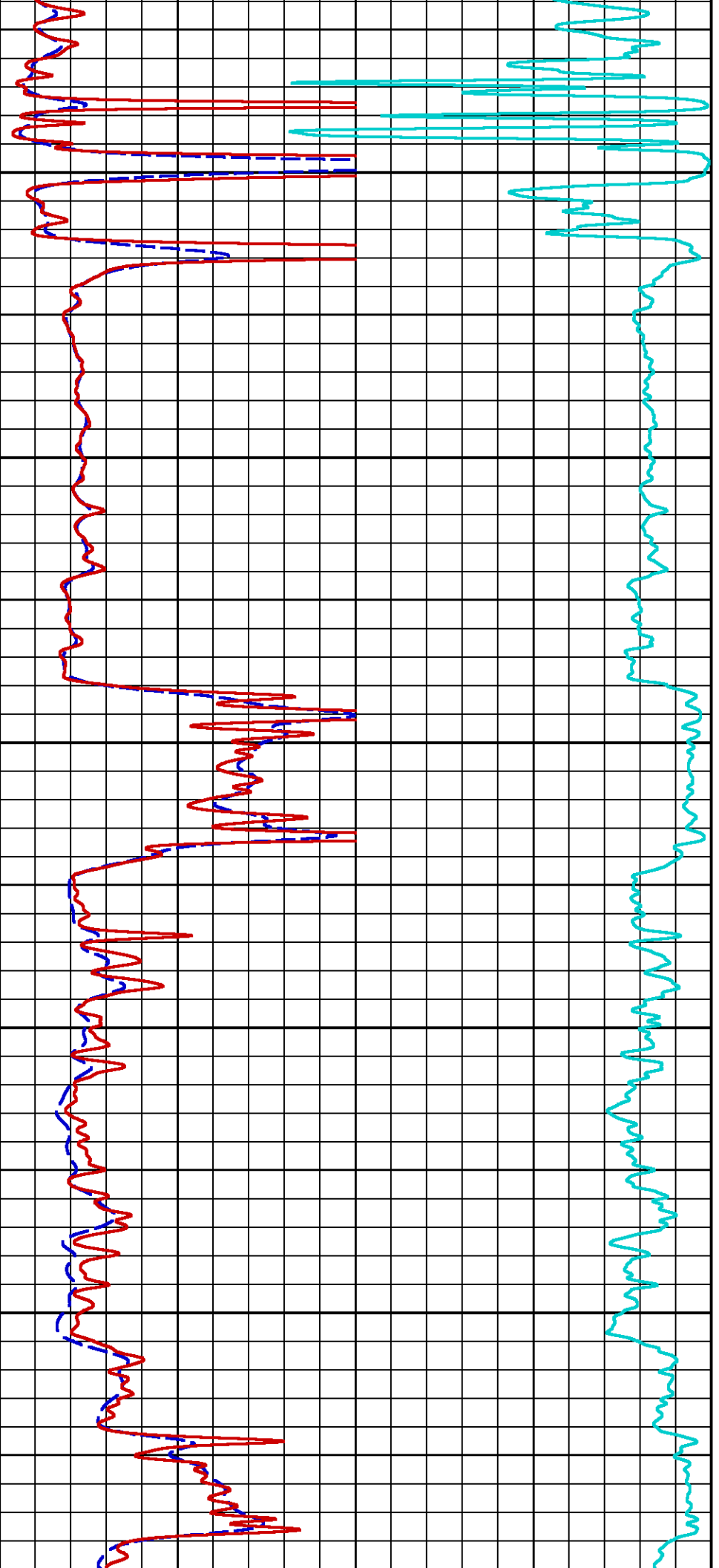


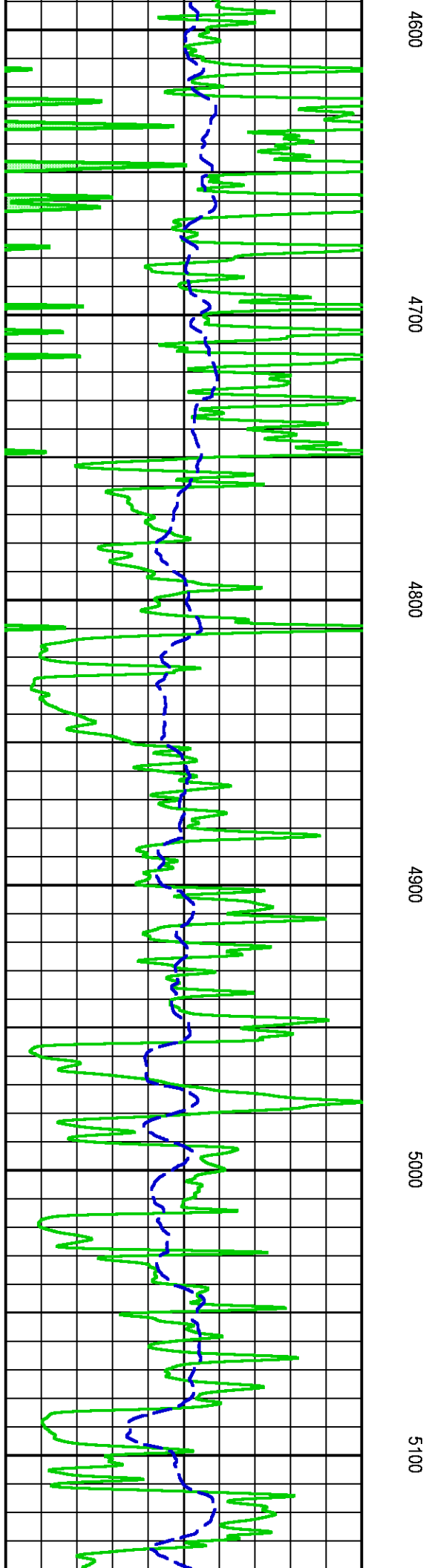
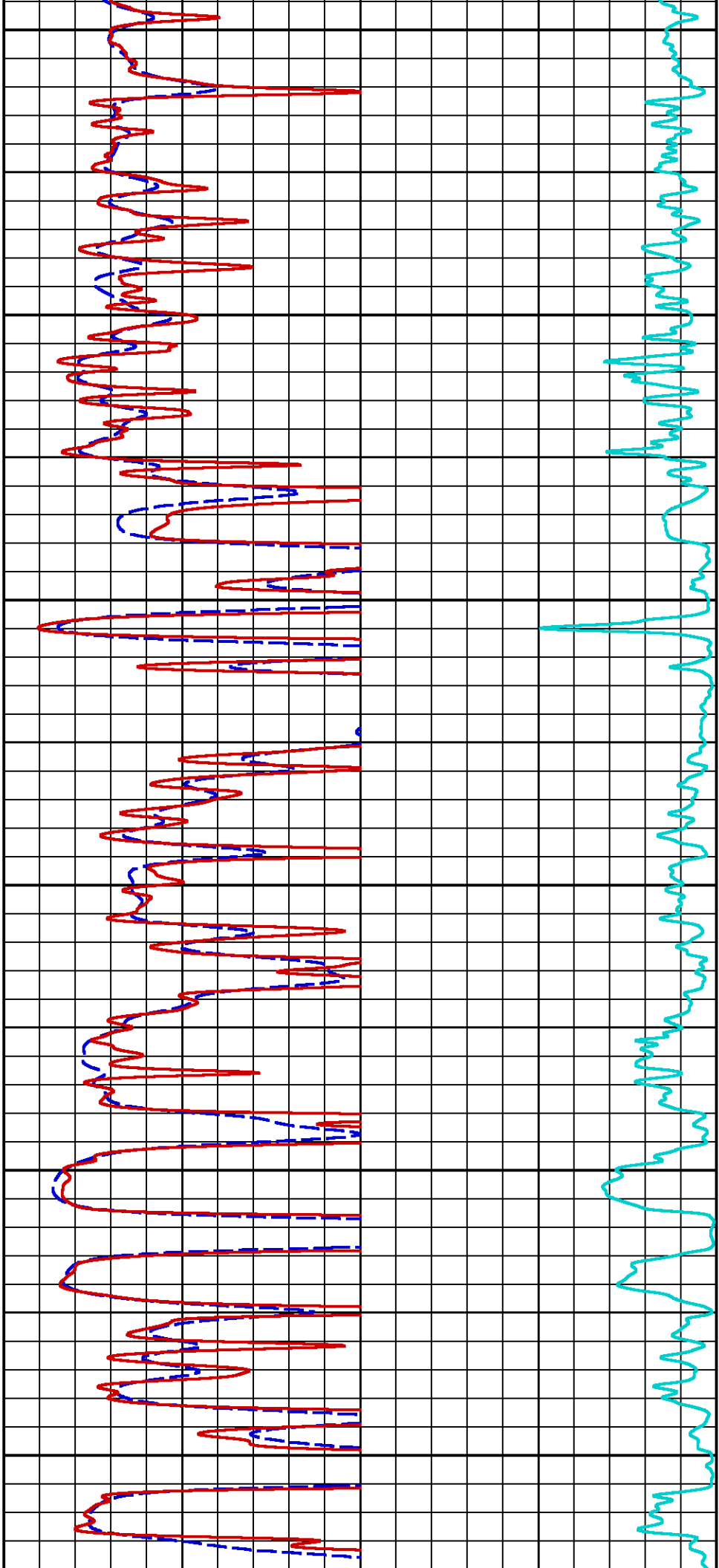


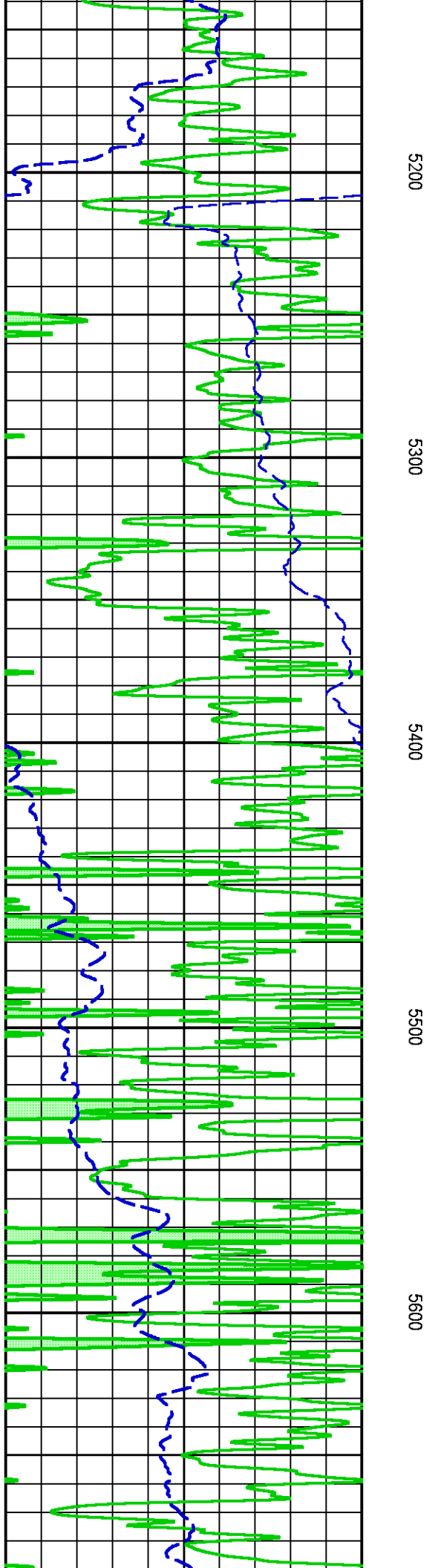
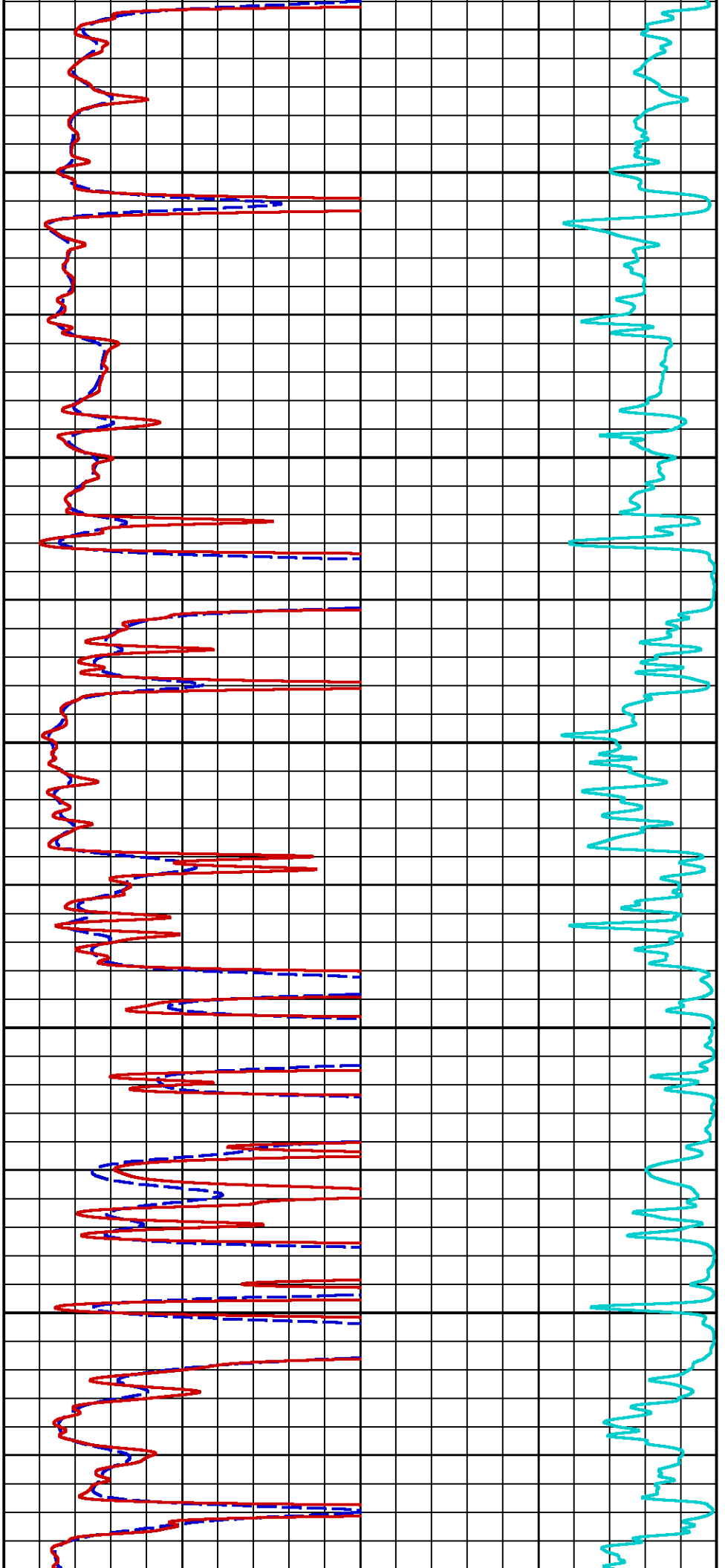


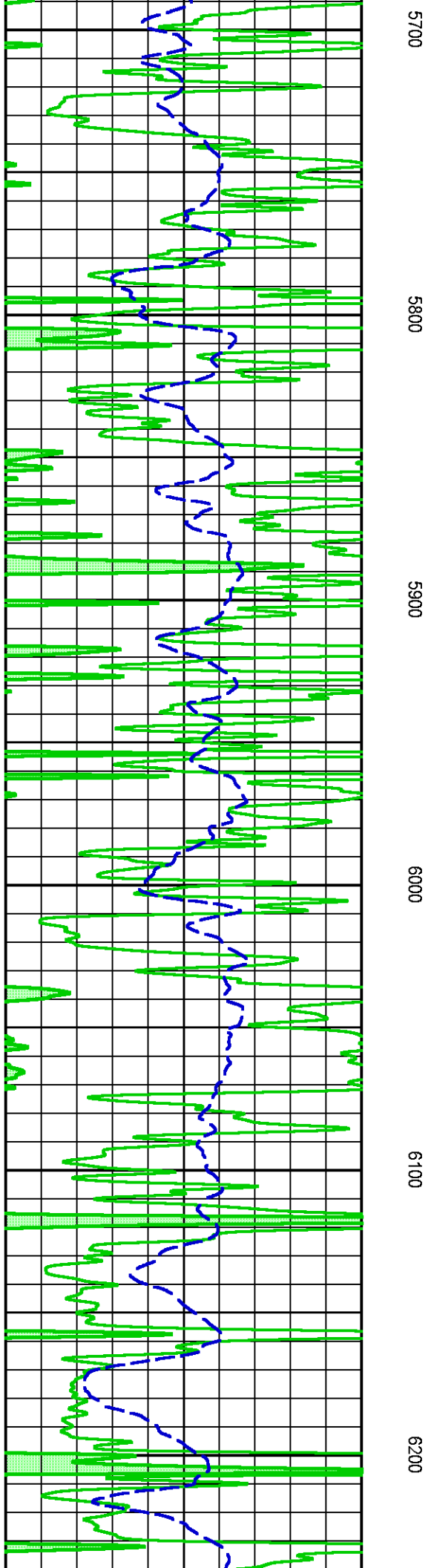
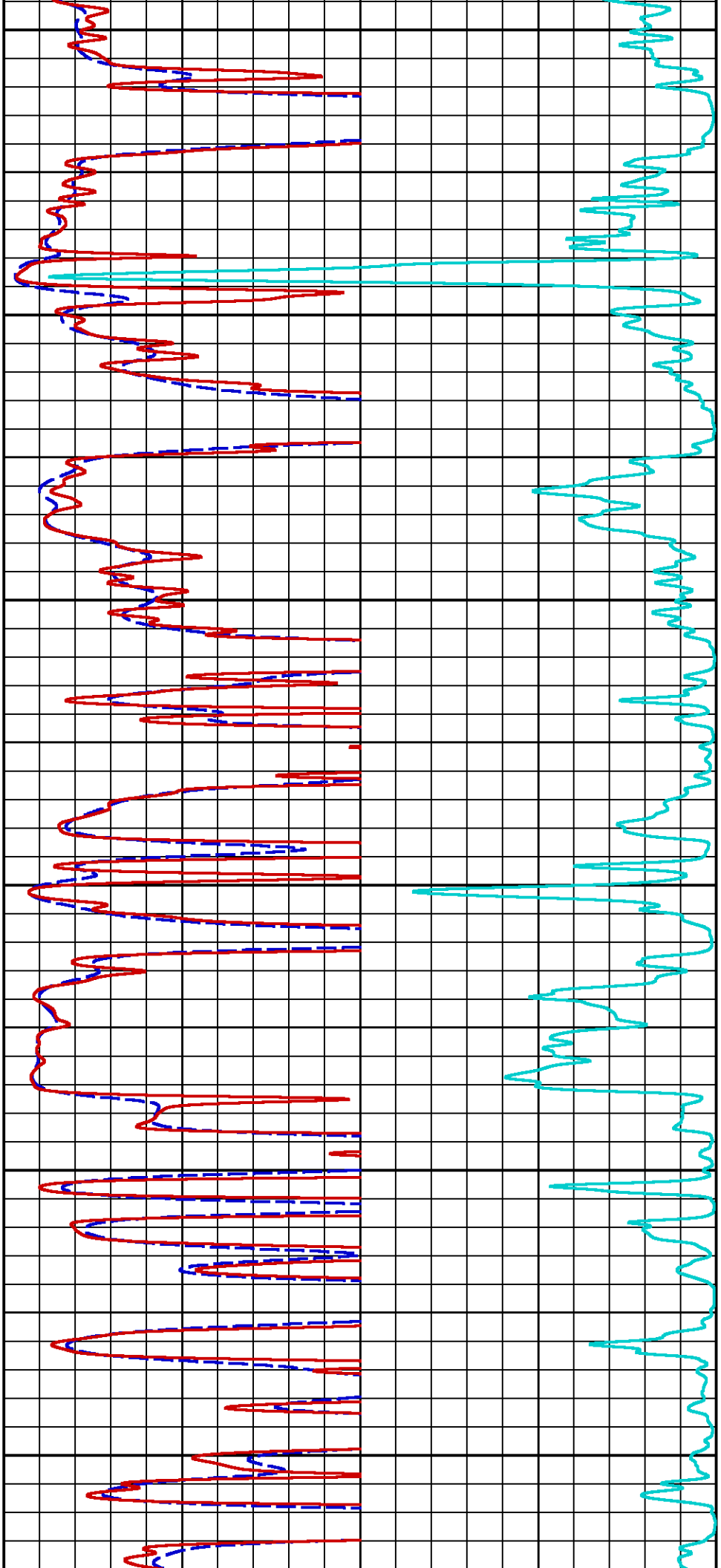


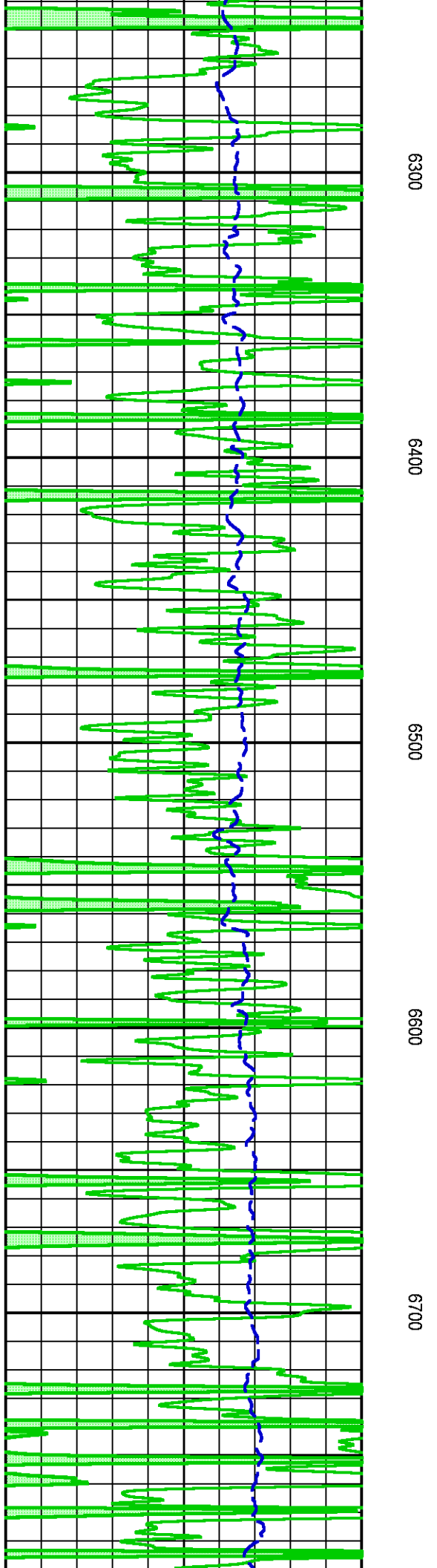
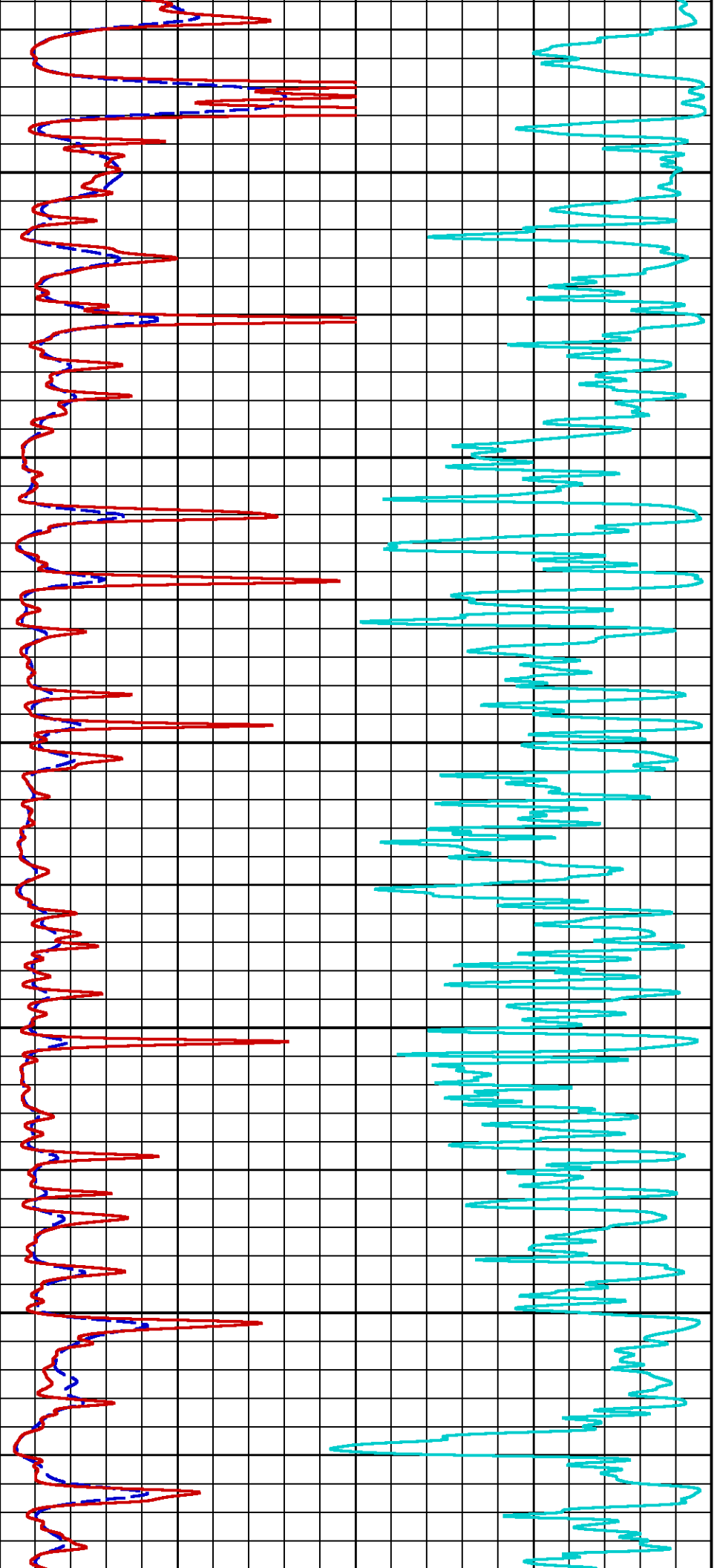


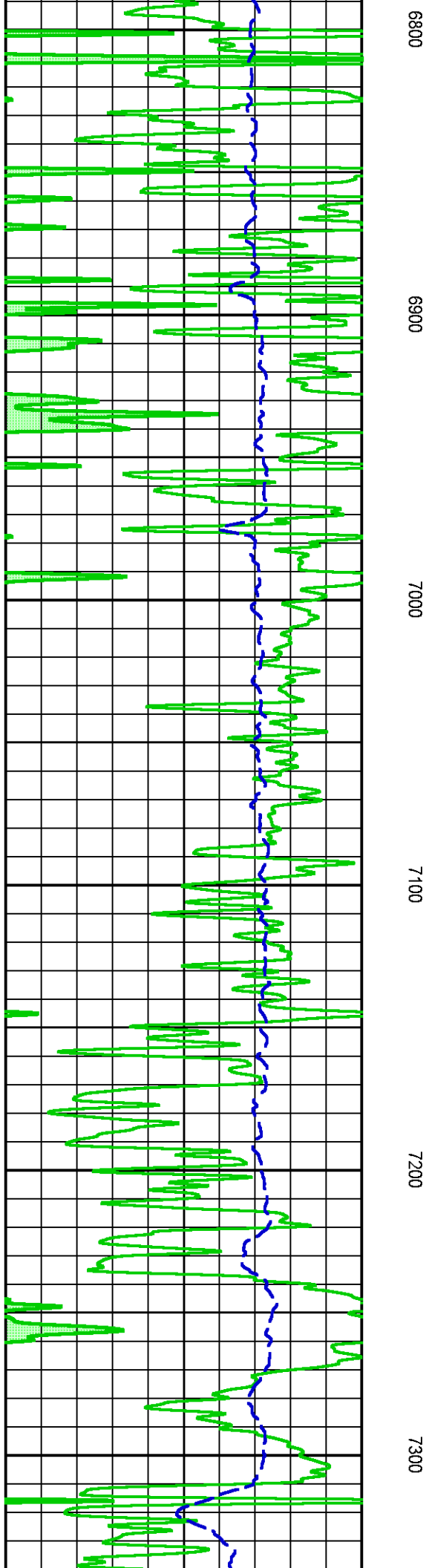
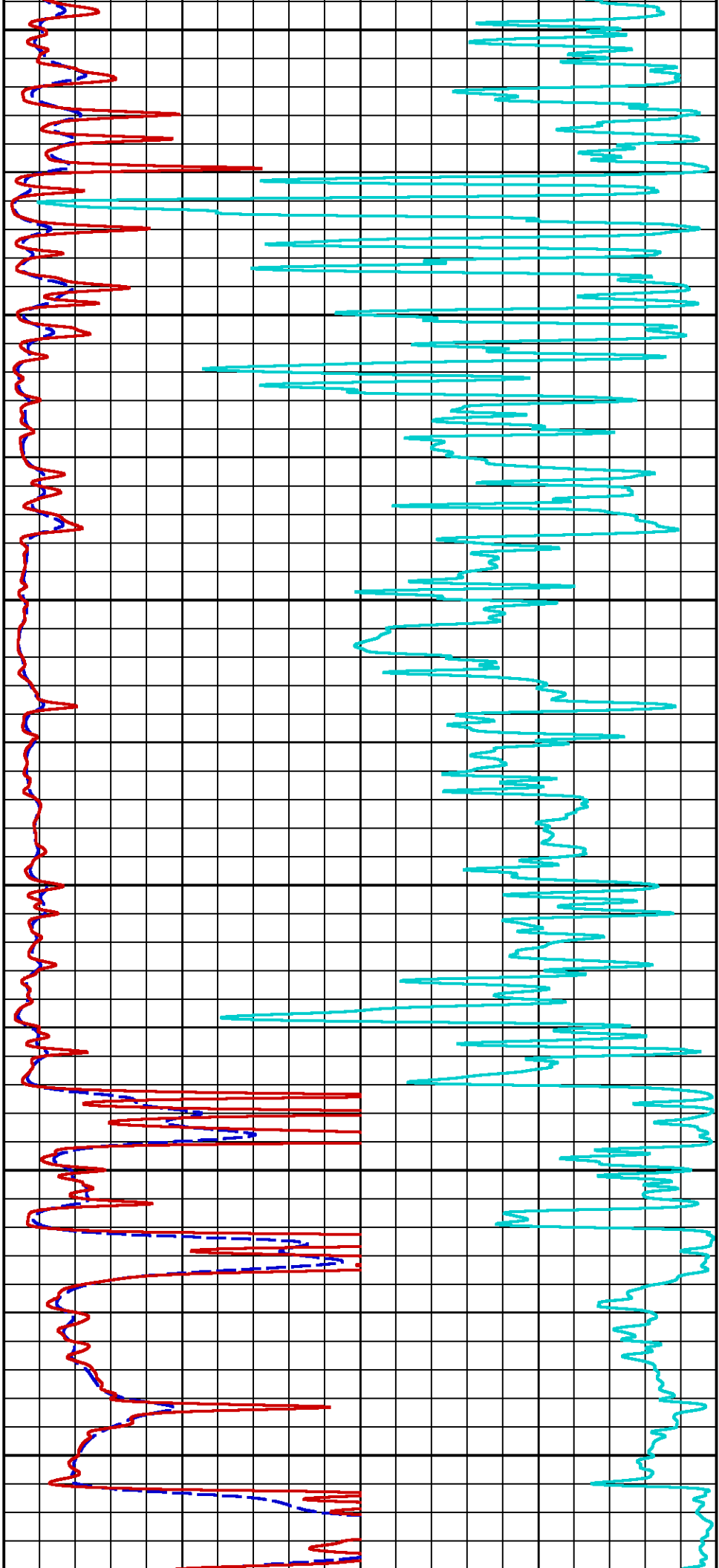


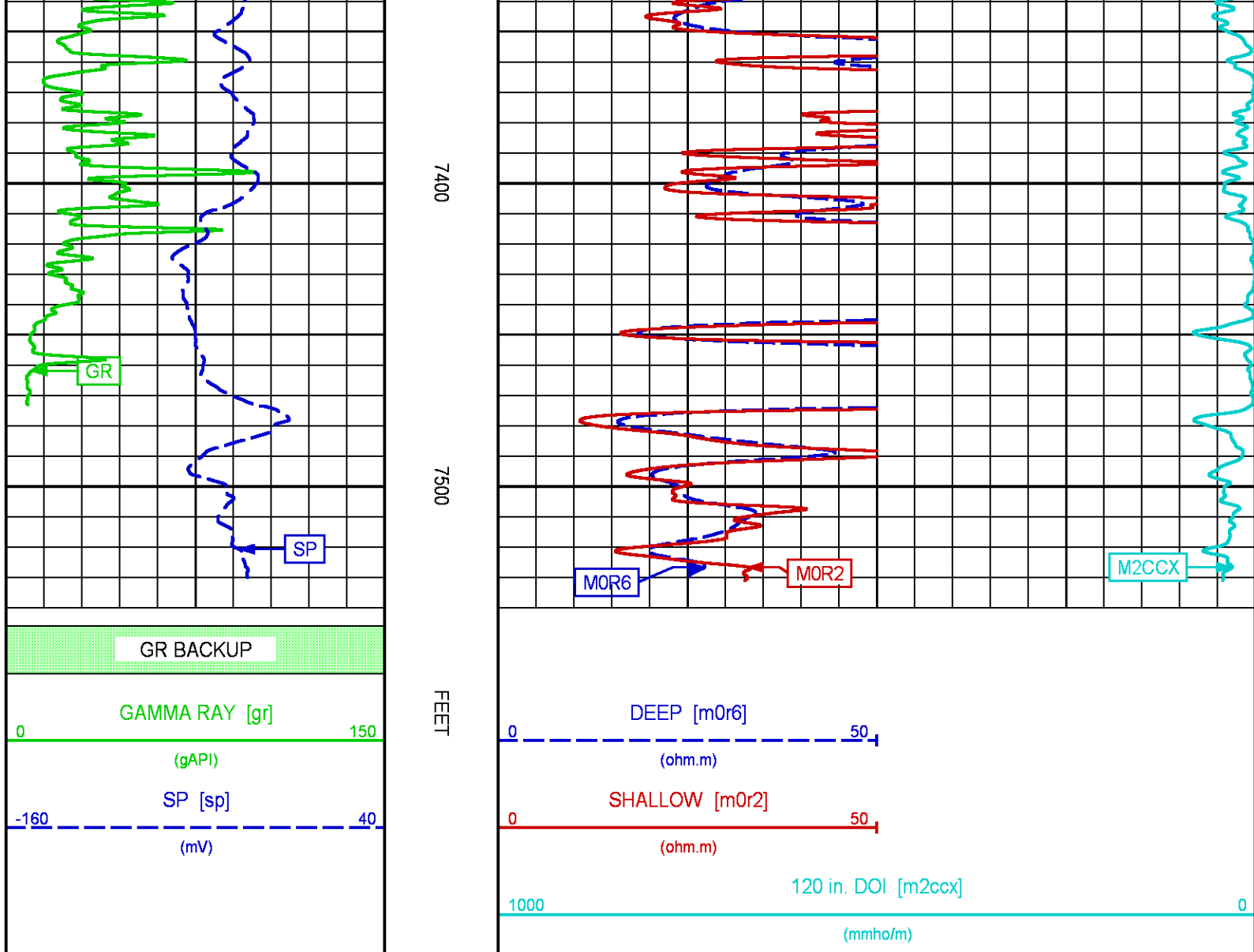












MAIN LOG 5"/100FT SCALE

ECLIPS 7.0i ECLIPS General Release Rel 7.0i Thu Jun 08 20:36:10 CDT 2017
Updates: 1,32 Patches: 3

Plotted: Sun Dec 15 12:11:45 2019

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/K3_COBANK_13_18/MSALM_DAL_ML_XC02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 396.000 ft BOTTOM DEPTH: 7559.000 ft

SYMMETRIC FILTER

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

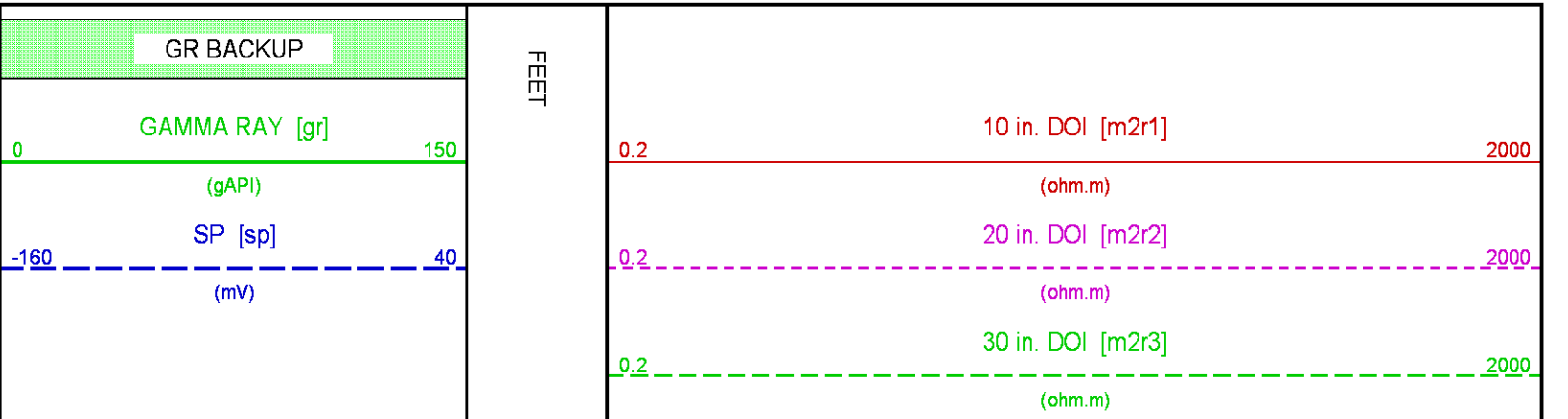
BOREHOLE & CEMENT					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
X-Y COMBINED CALIPER PROCESSING	X-Y Caliper	X-Axis		TOP	BOTTOM
BIT SIZE	BIT SIZE	7.875	in	"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	77.0	degF	"	"
	MUD SAMPLE RES	1.000	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	77.0	degF	"	"
	at BH REF DEPTH	0.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	7.875	in	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"

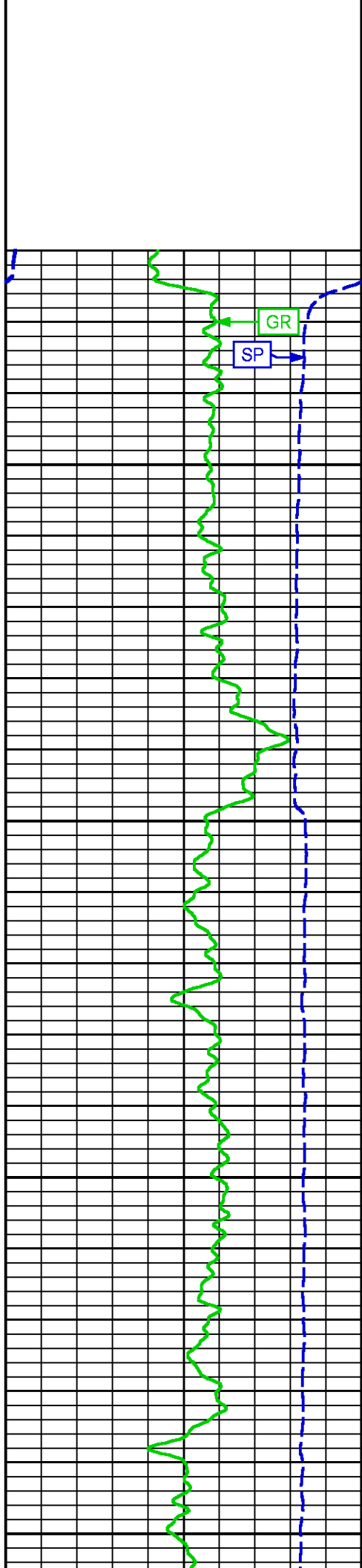
HDIL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTEMP		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	BOREHOLE SIZE		TOP	6755.750
		MUD CONDUCTIVITY		6755.750	BOTTOM
	STANDOFF	1.50	in	TOP	BOTTOM
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000		"	"
HDIL High RESISTIVITY Normalization	VRM Norm	ON		"	"

CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:GR	Dec 15 07:07:40 2019	GAMMA RAY
F1:M2R1	Dec 15 07:07:40 2019	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI
F1:M2R2	Dec 15 07:07:40 2019	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 20-INCH DOI
F1:M2R3	Dec 15 07:07:40 2019	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 30-INCH DOI
F1:M2R6	Dec 15 07:07:40 2019	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	Dec 15 07:07:40 2019	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:M2RX	Dec 15 07:07:40 2019	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 120-INCH DOI
F1:SP	Dec 15 07:07:40 2019	SPONTANEOUS POTENTIAL

CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
GR	-84.00	M2R2	-19.25	M2R6	-19.25	M2RX	-19.25
M2R1	-19.25	M2R3	-19.25	M2R9	-19.25	SP	-25.25

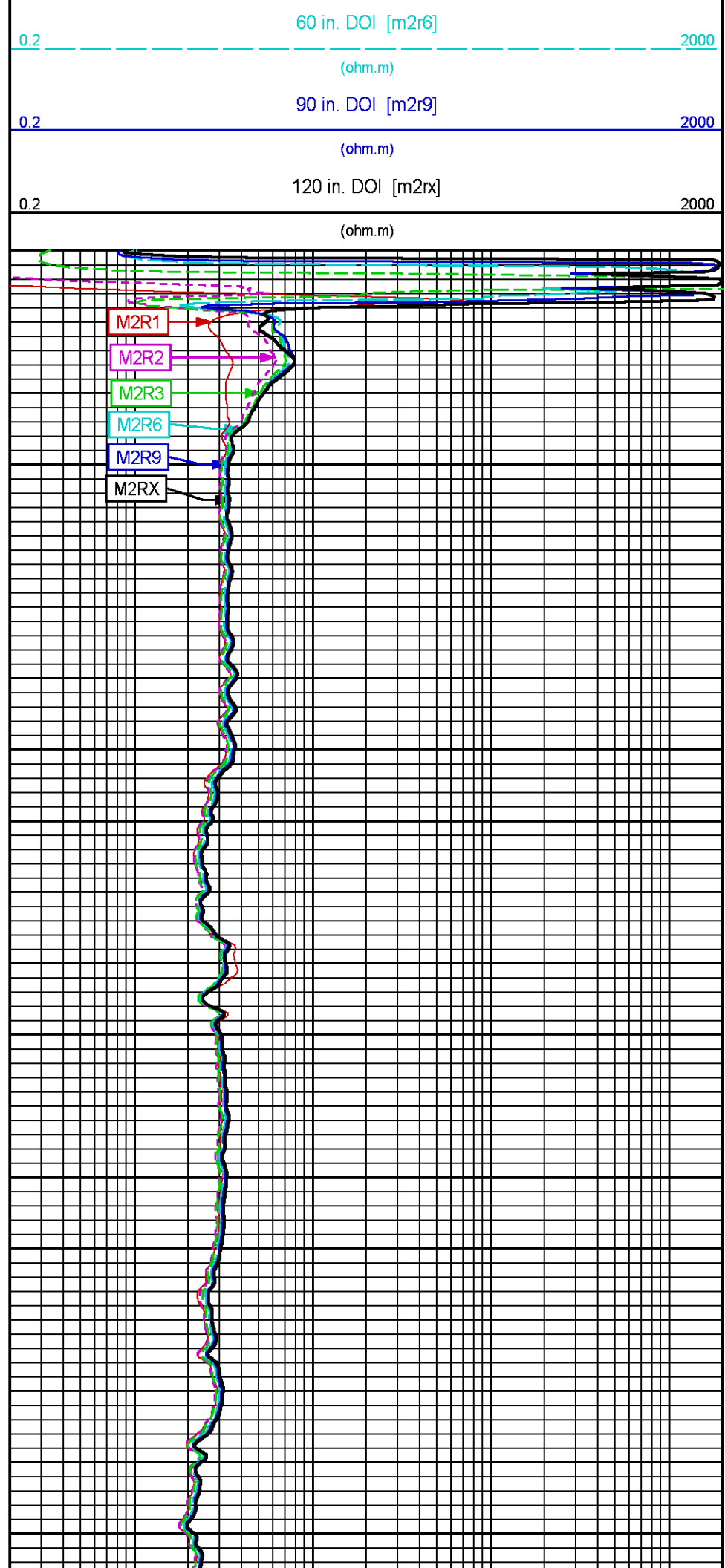
Presentation	: cpu6728:/dat1a/K3_COBANK_13_18/HDIL5IN.fvpdf [5"/100' Scale]
Plot Interval	: 470 - 7557.75 Feet
Data File 1	: F1 : cpu6728:/dat1a/K3_COBANK_13_18/MAIN.xtf
Created On	: Dec 15 07:07:40 2019
Company	: WOODFORD PETROLEUM
Well	: COBANK 13-18
Field	: XXXXX
File Interval	: 298.5 - 7559 Feet
OCT	: MSALM_DA

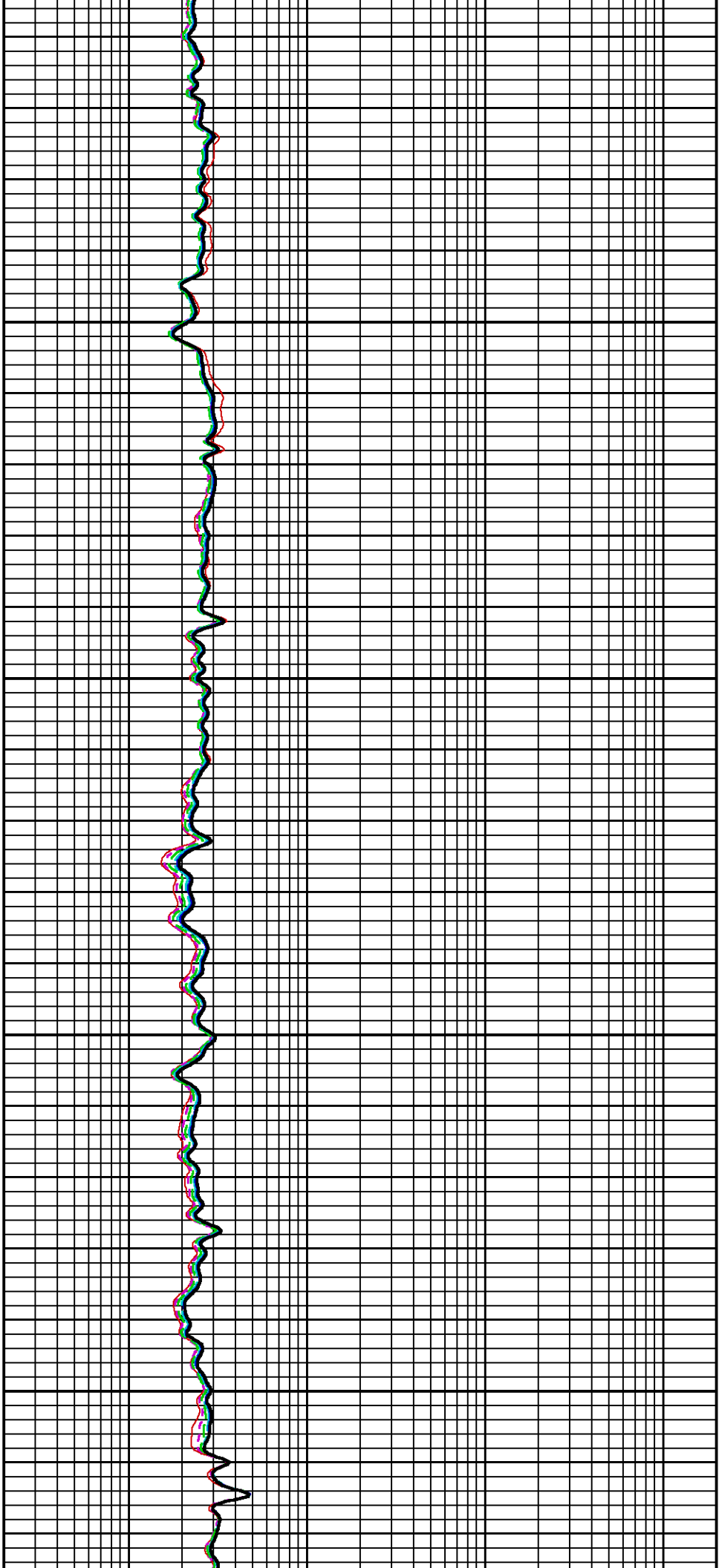




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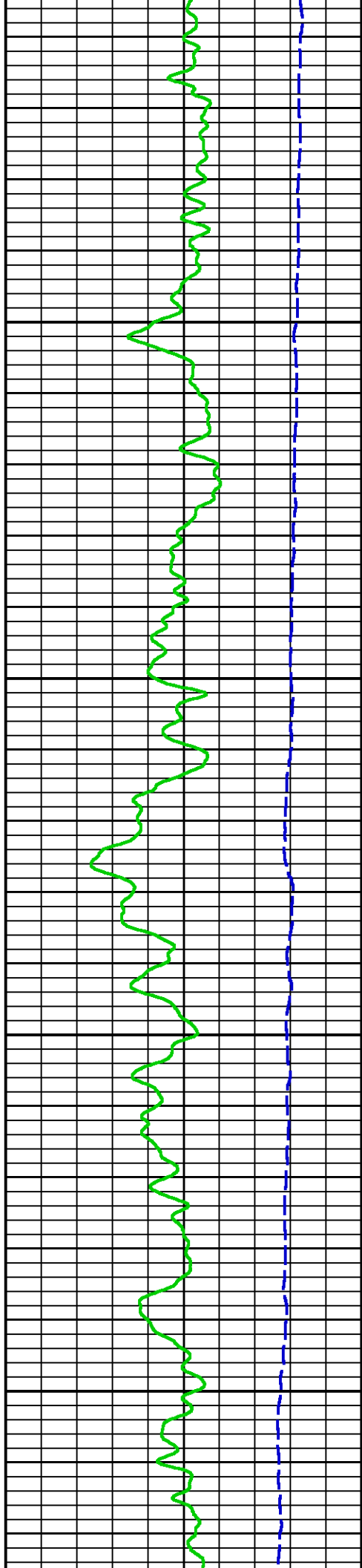
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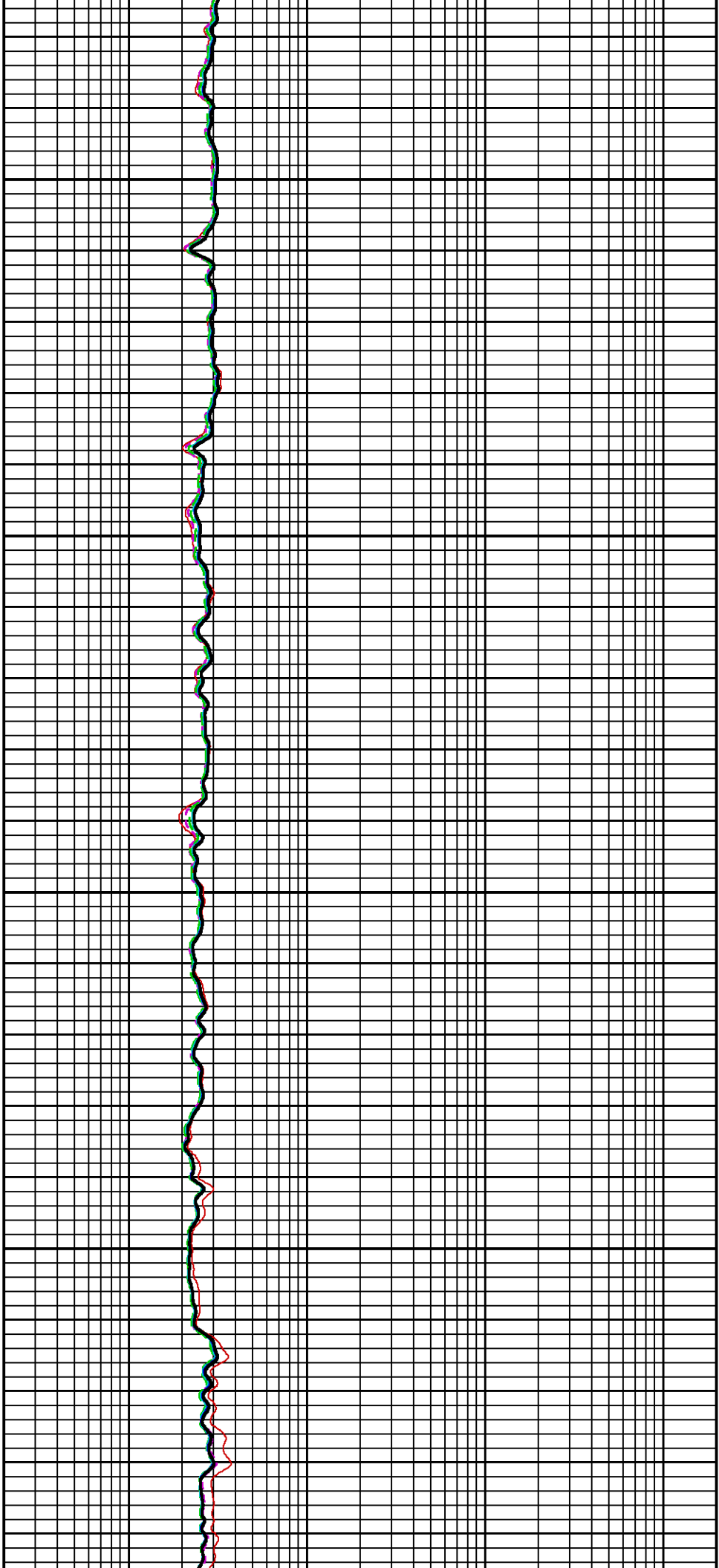




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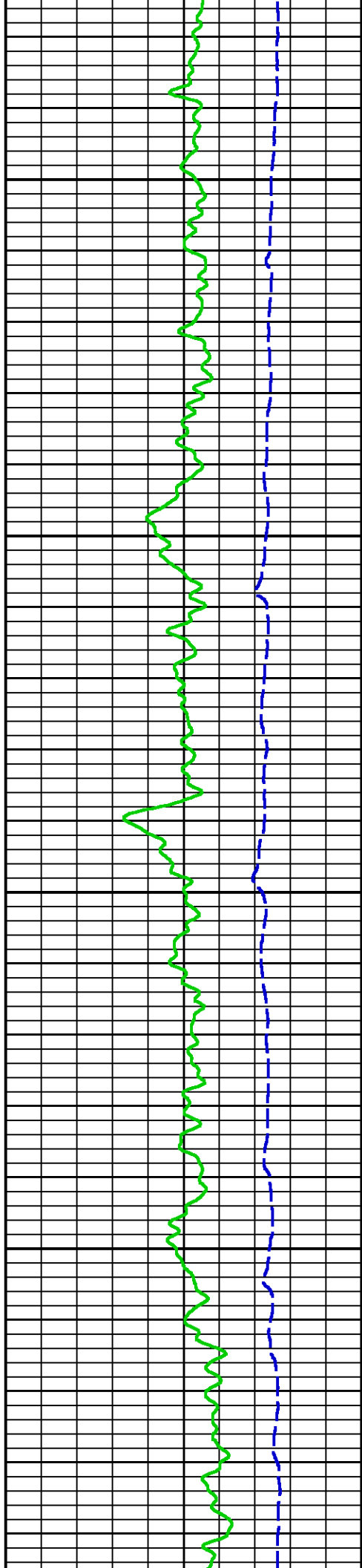
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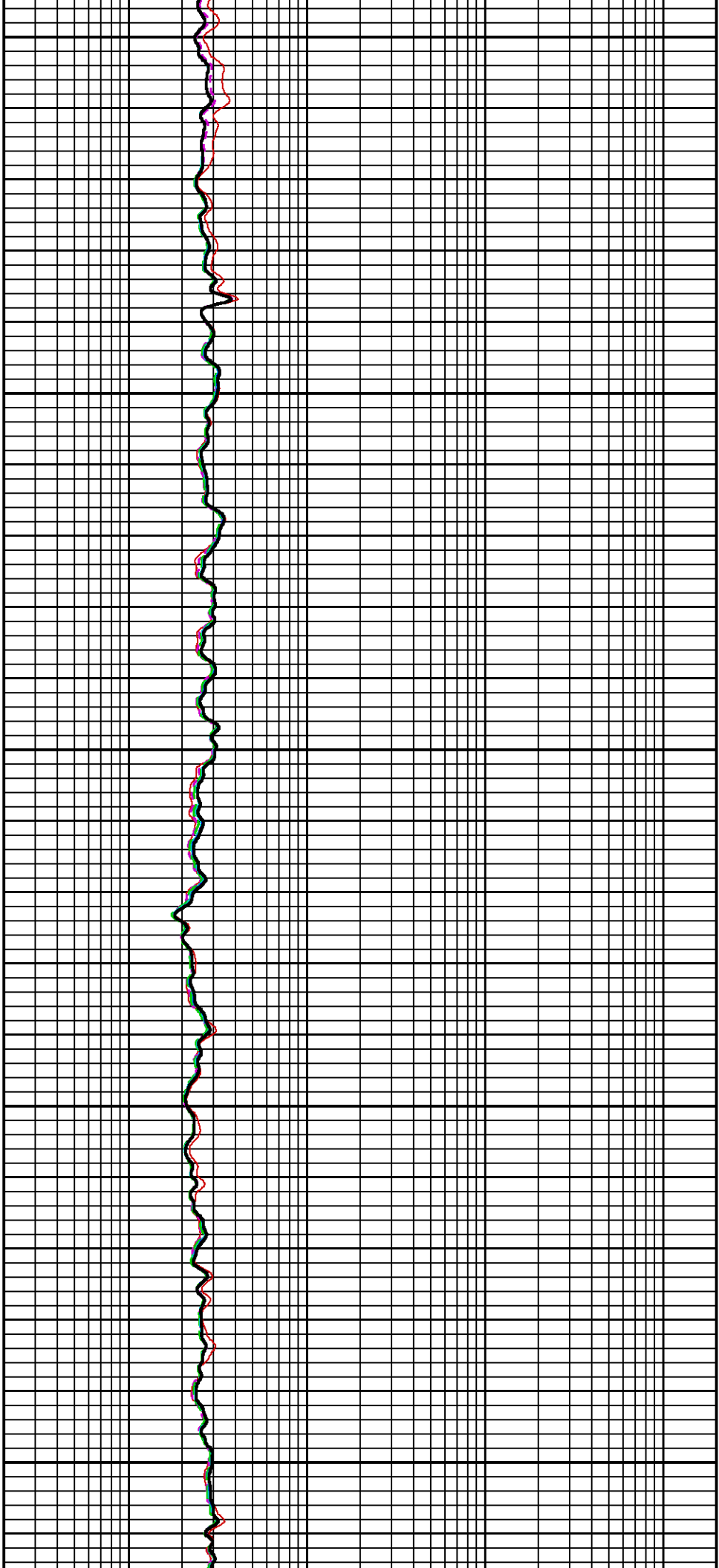




900

1000

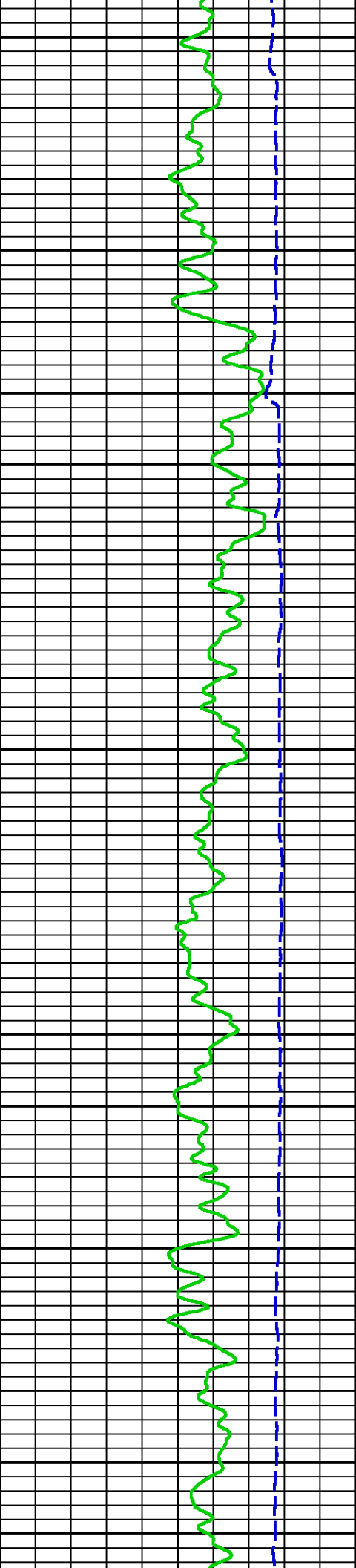


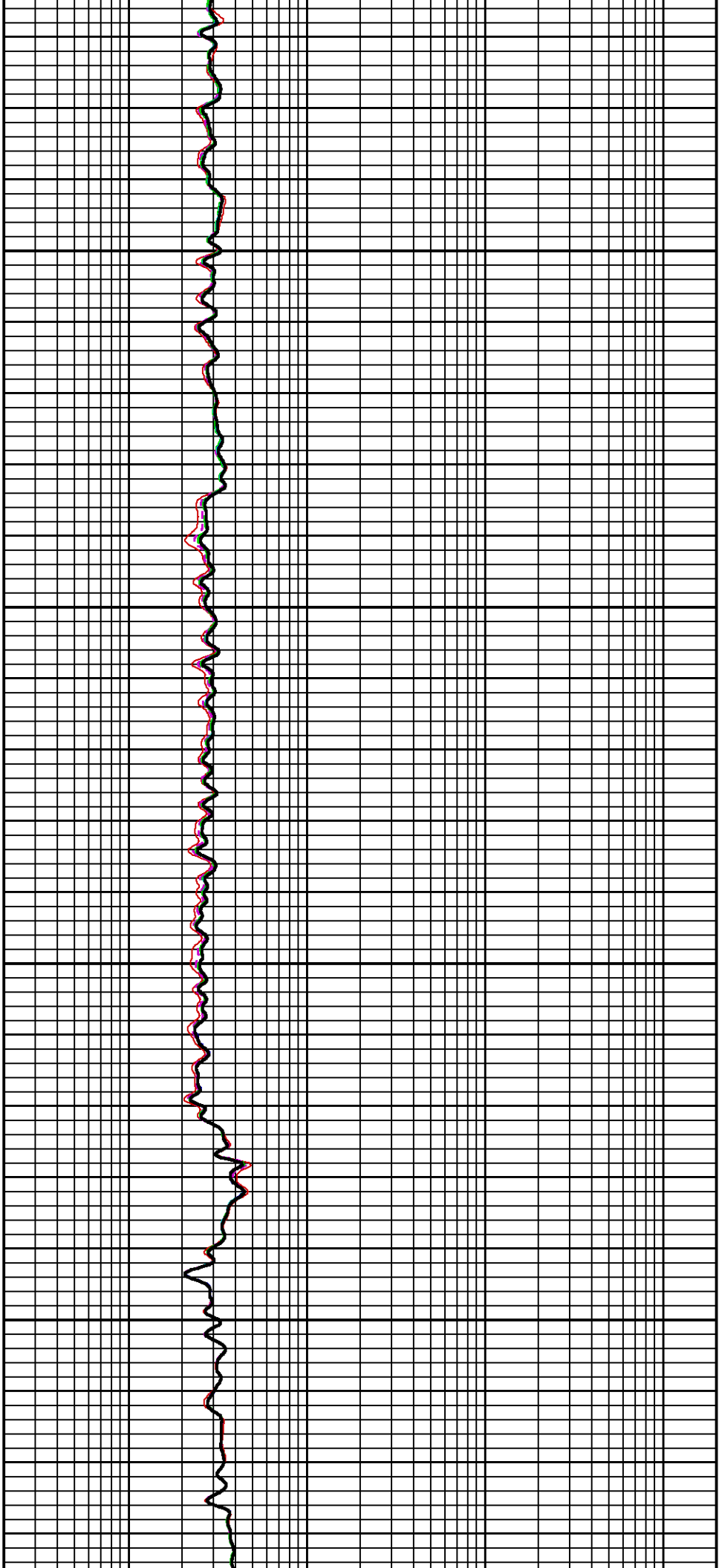


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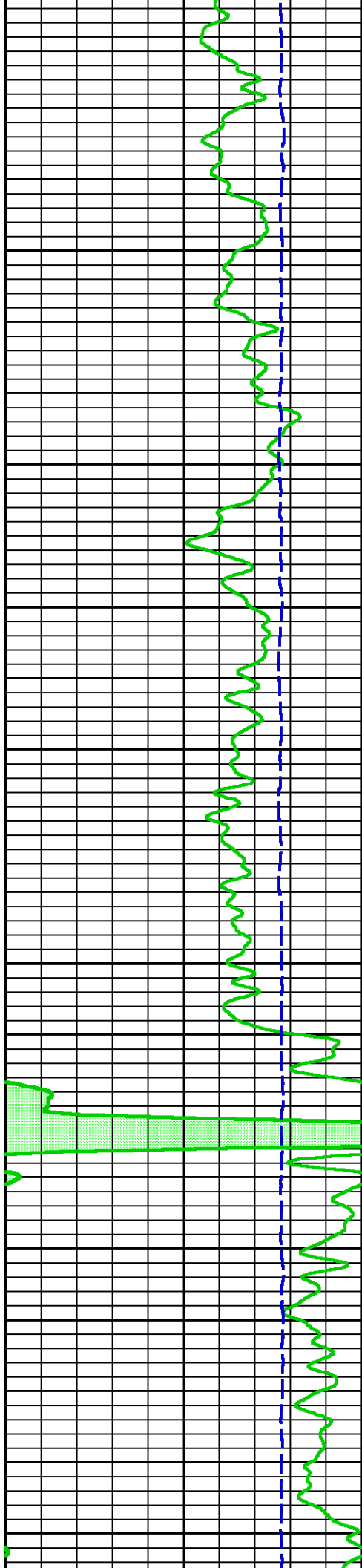
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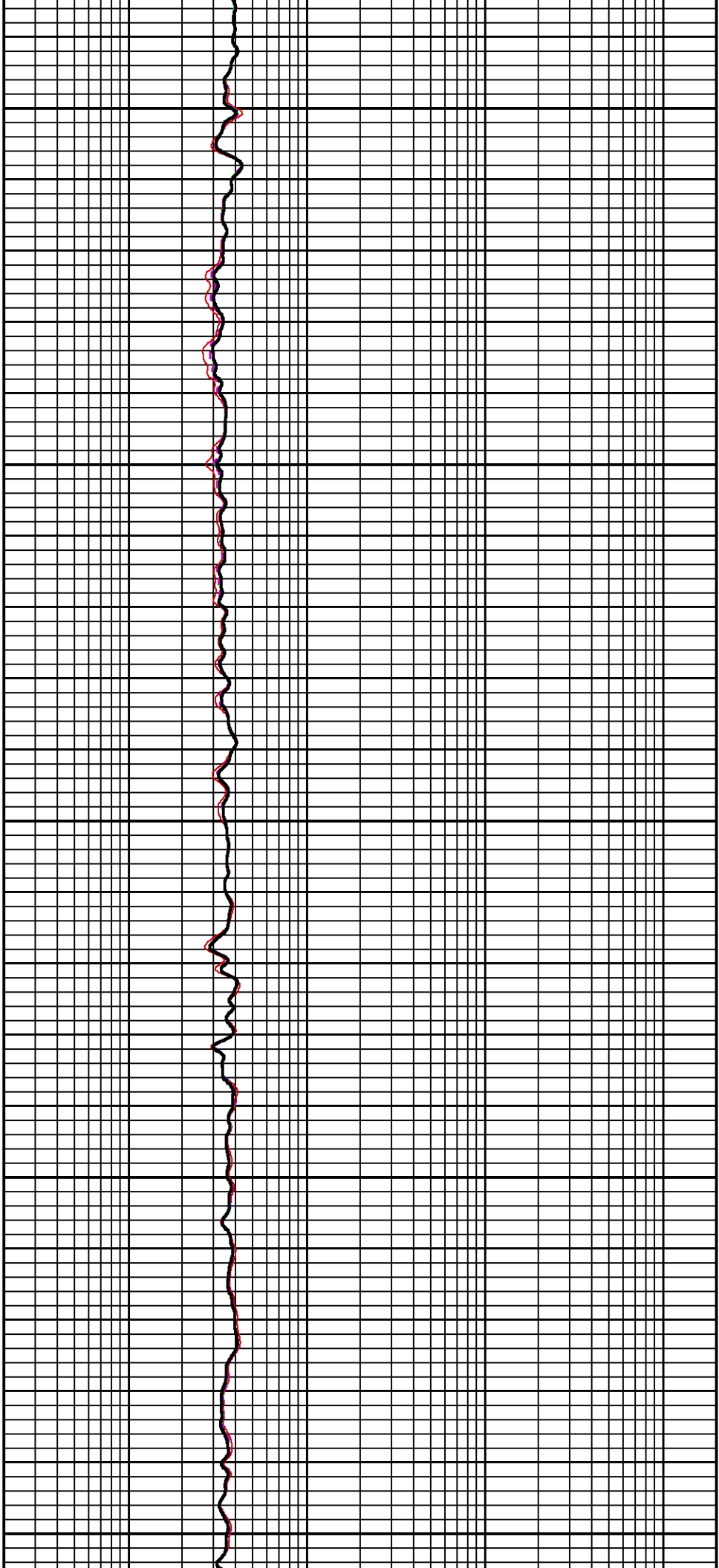




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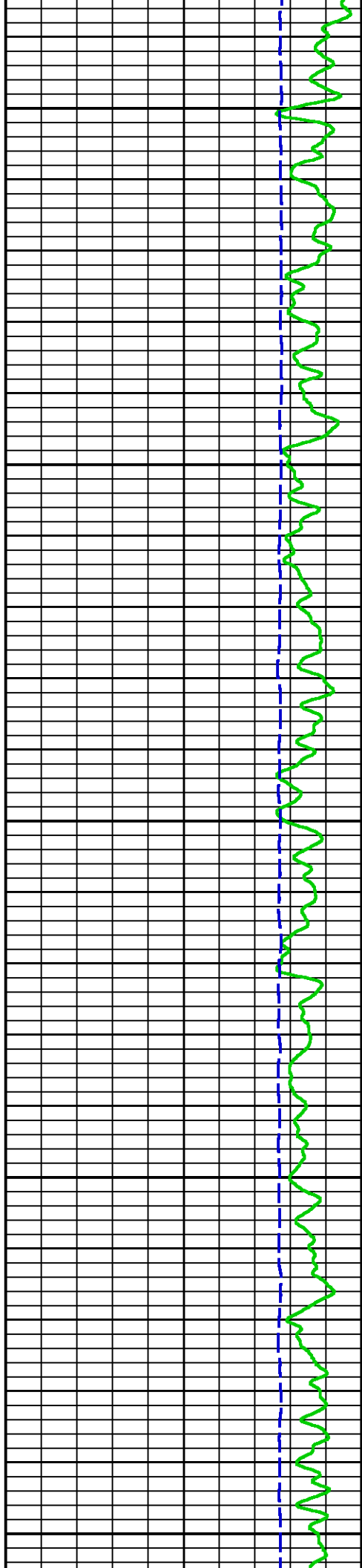
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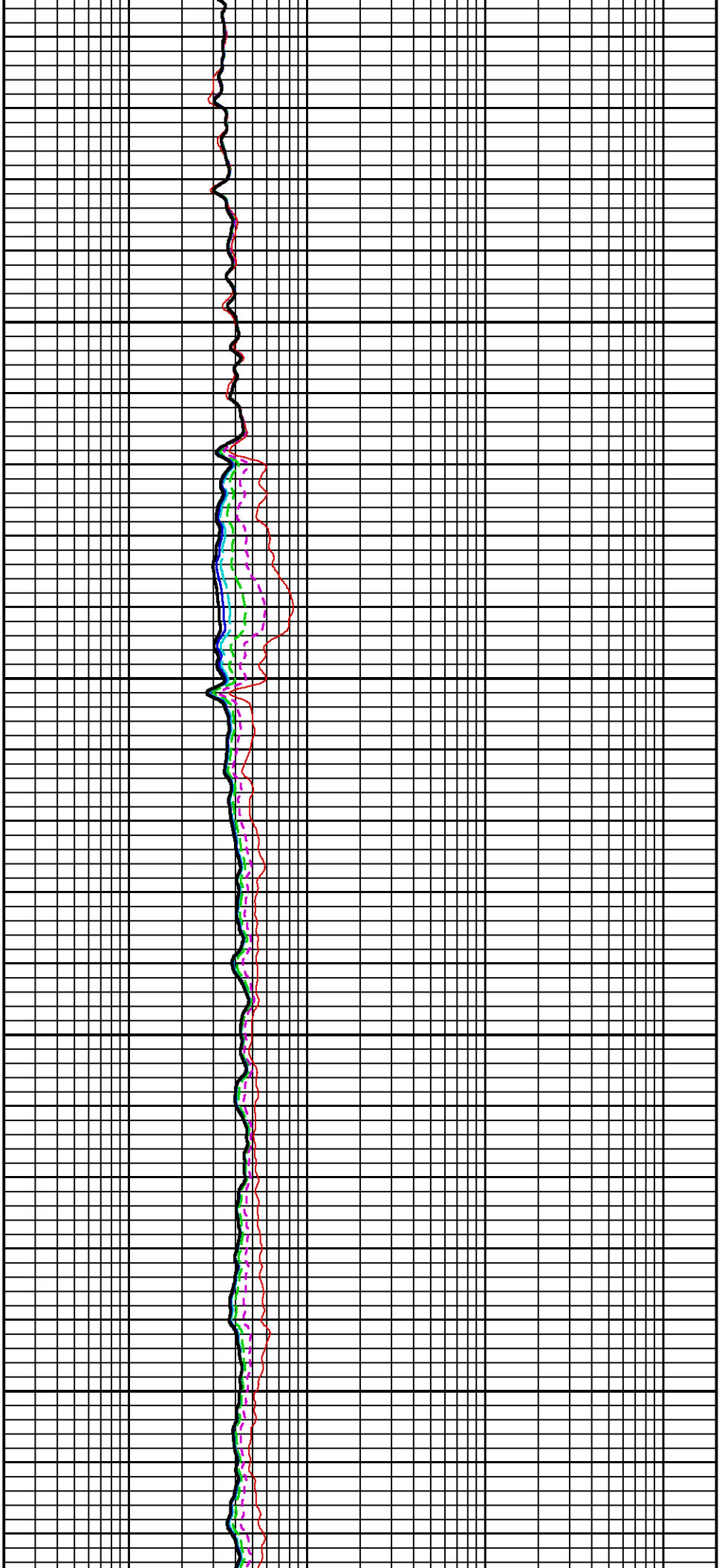




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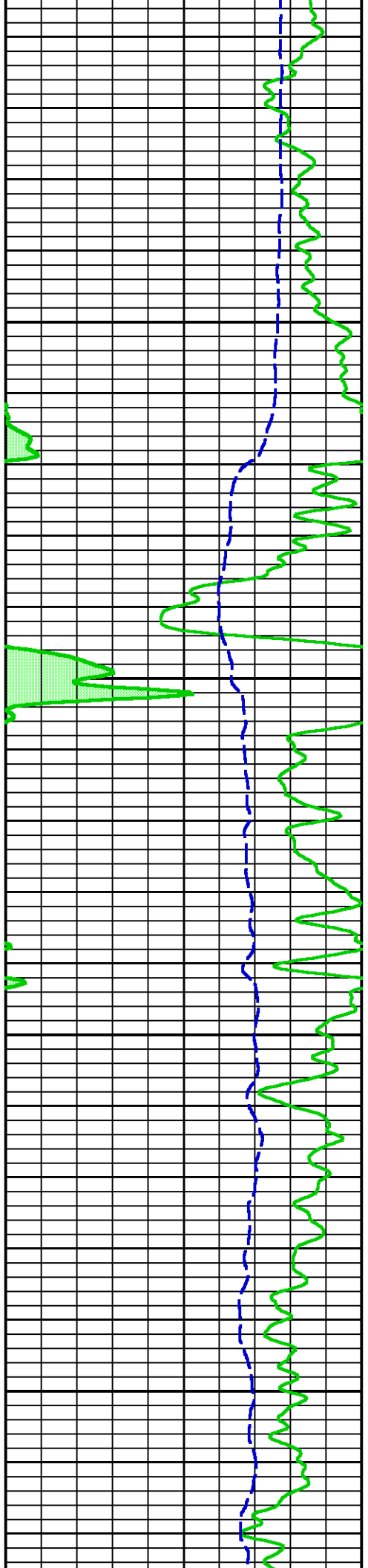
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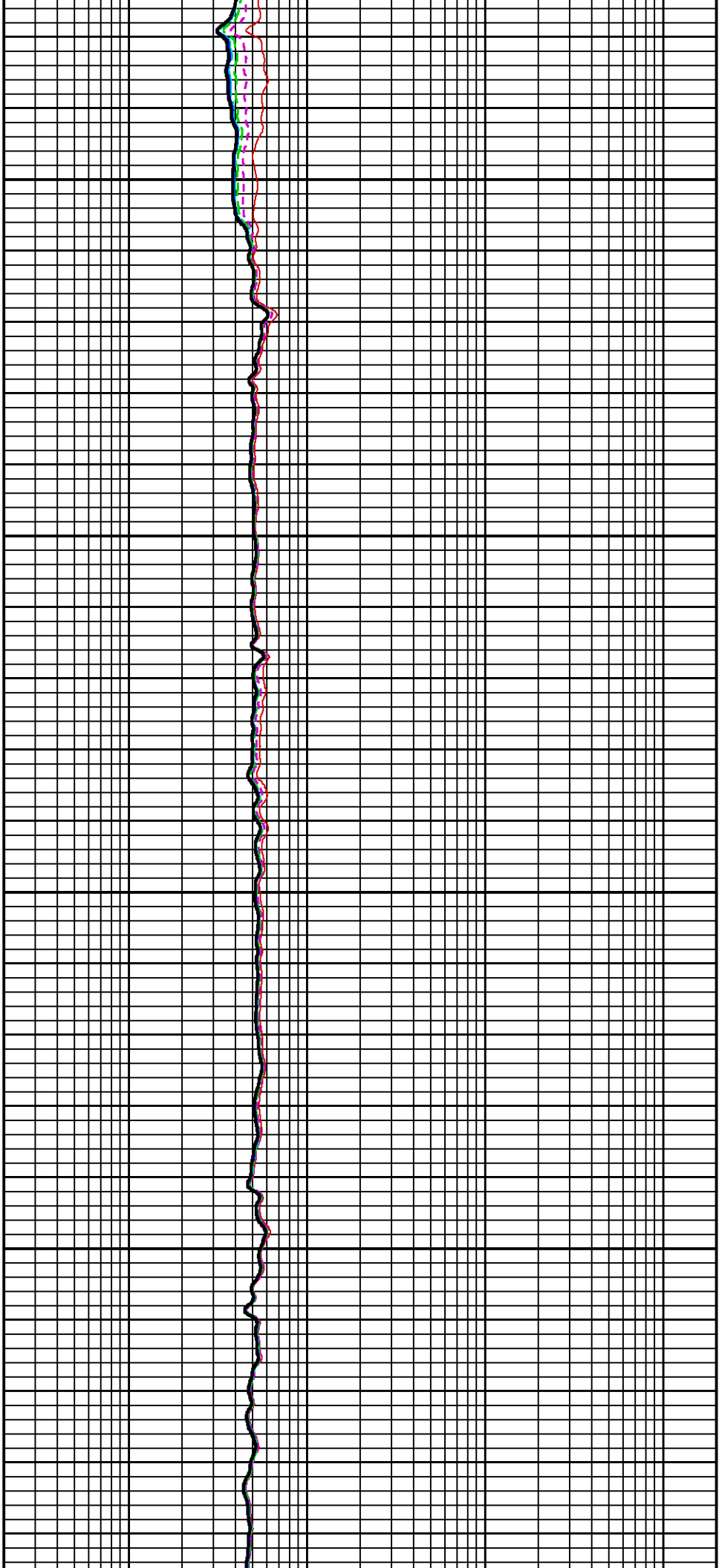




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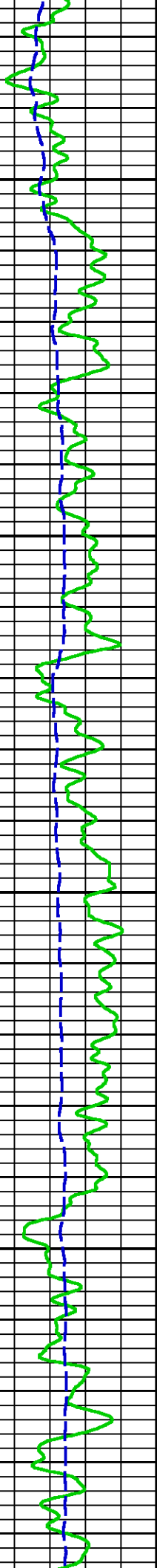
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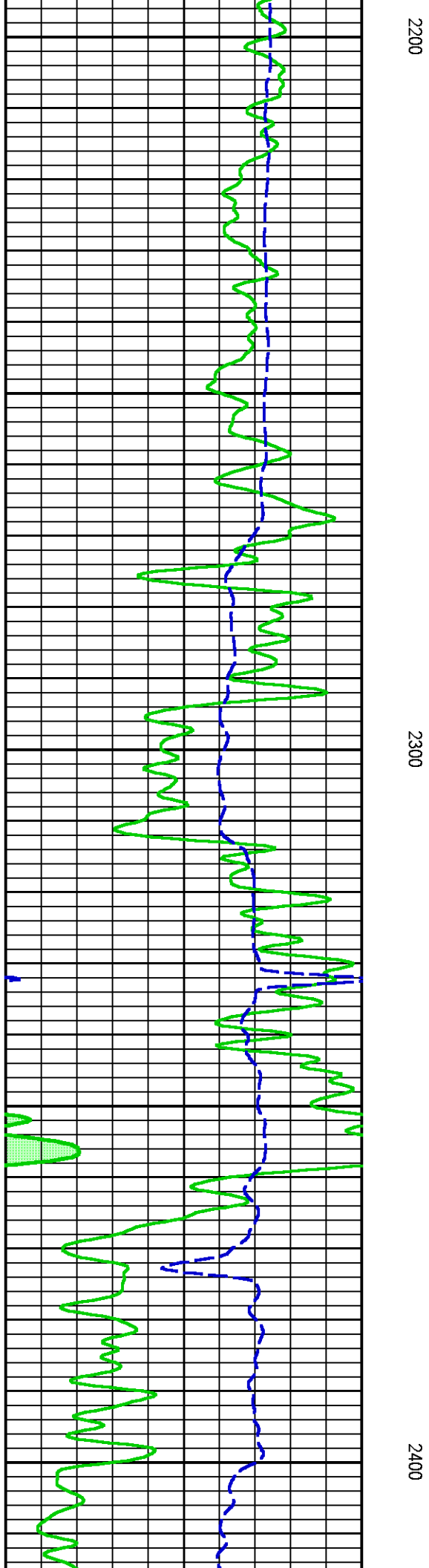
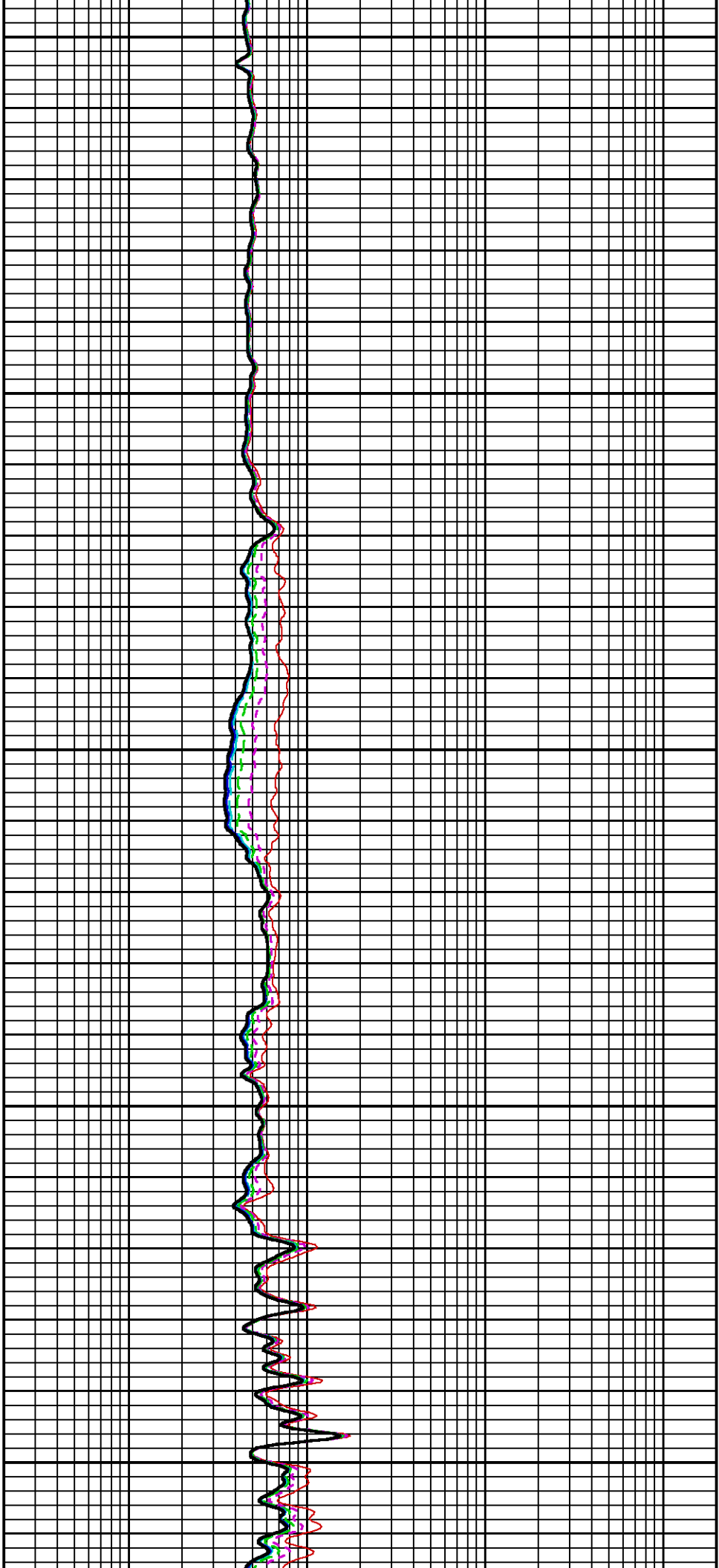


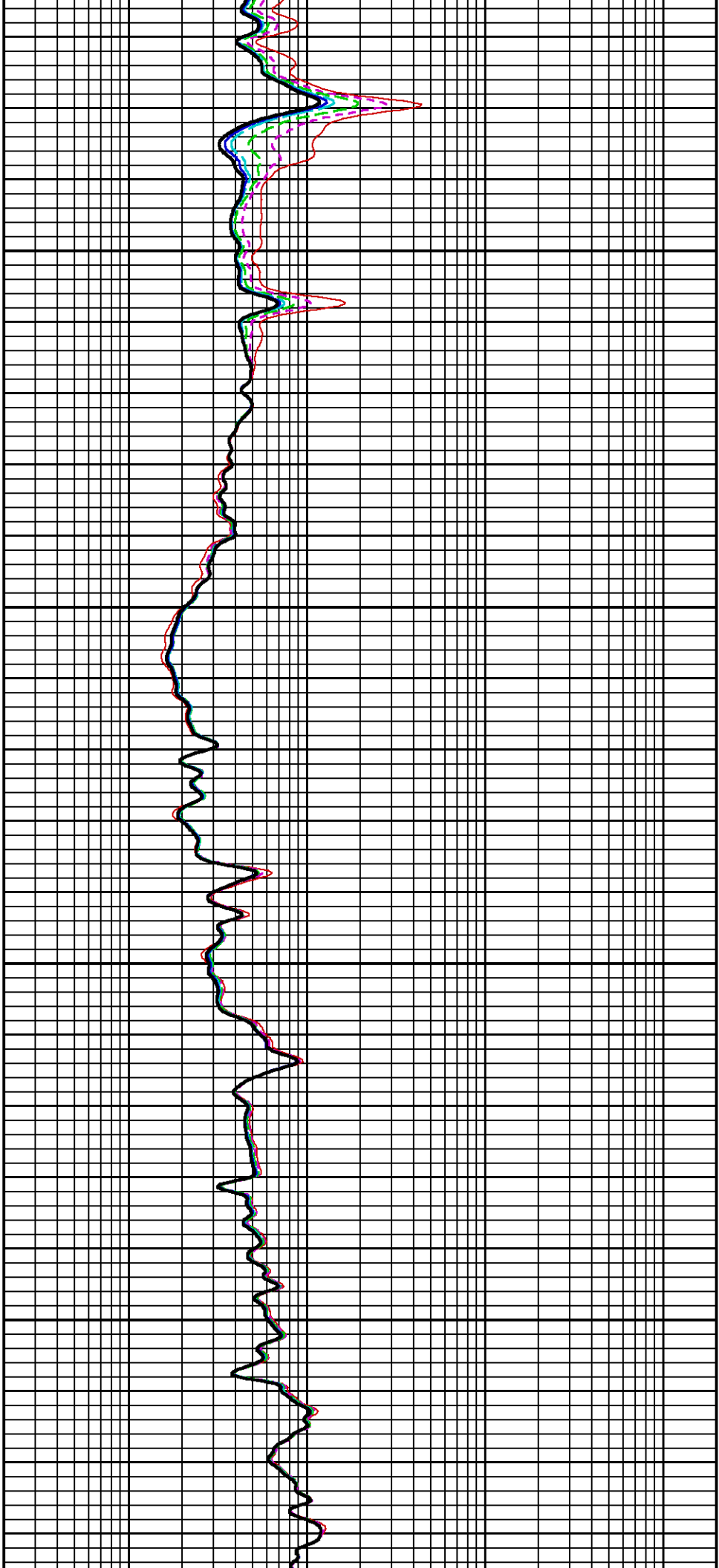


2000

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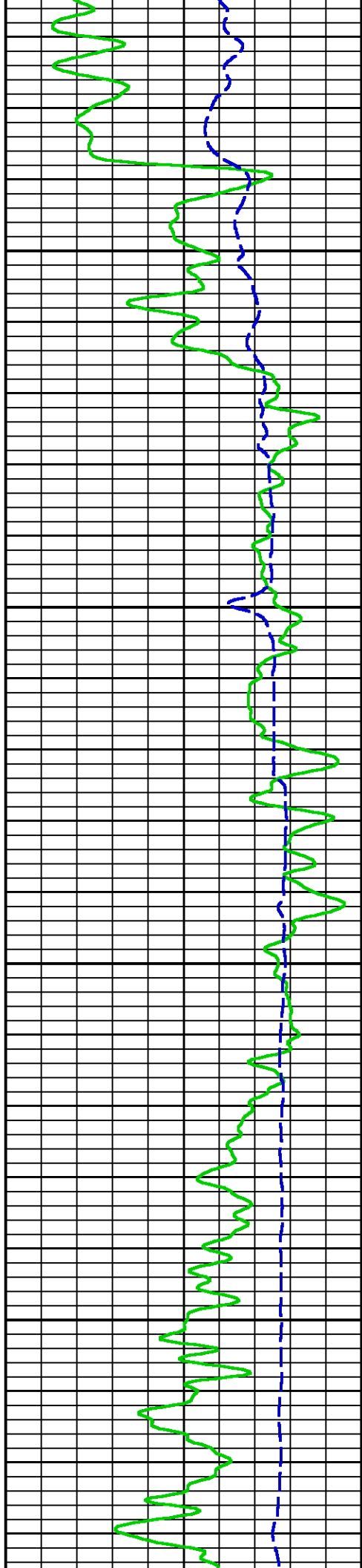


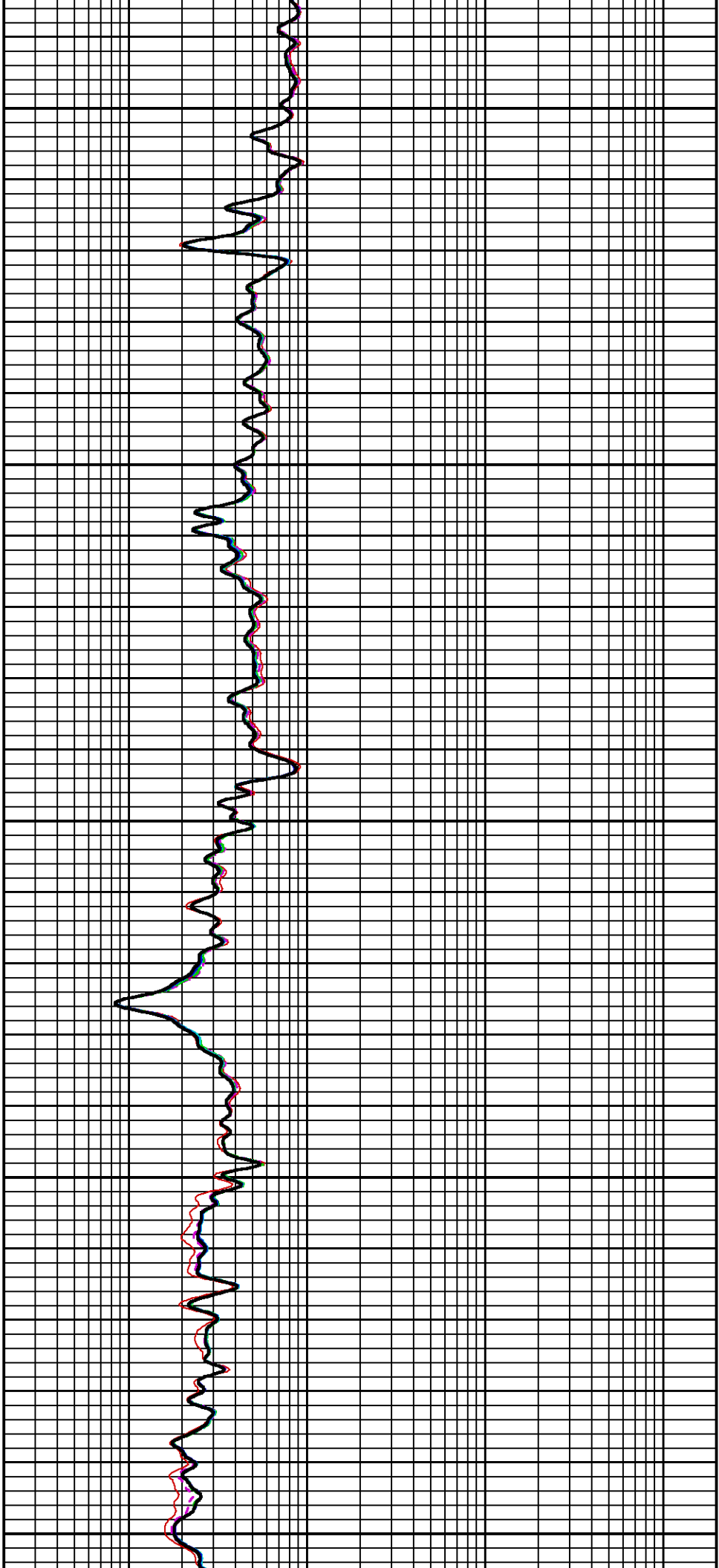




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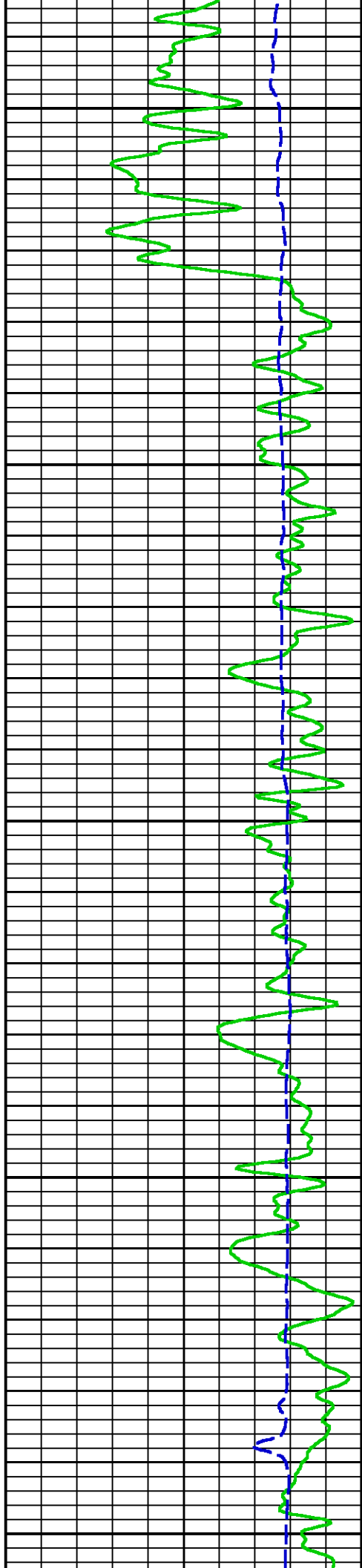
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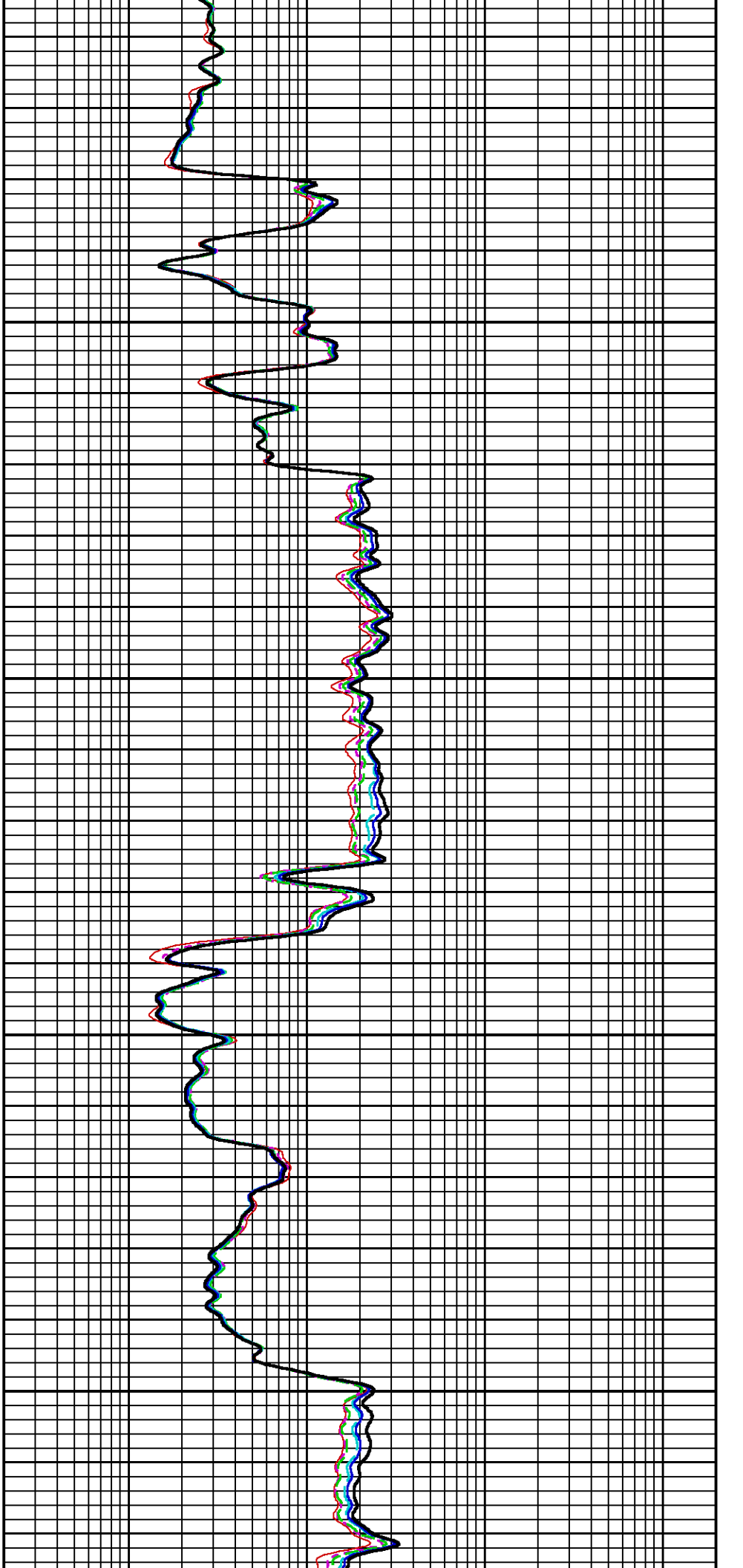




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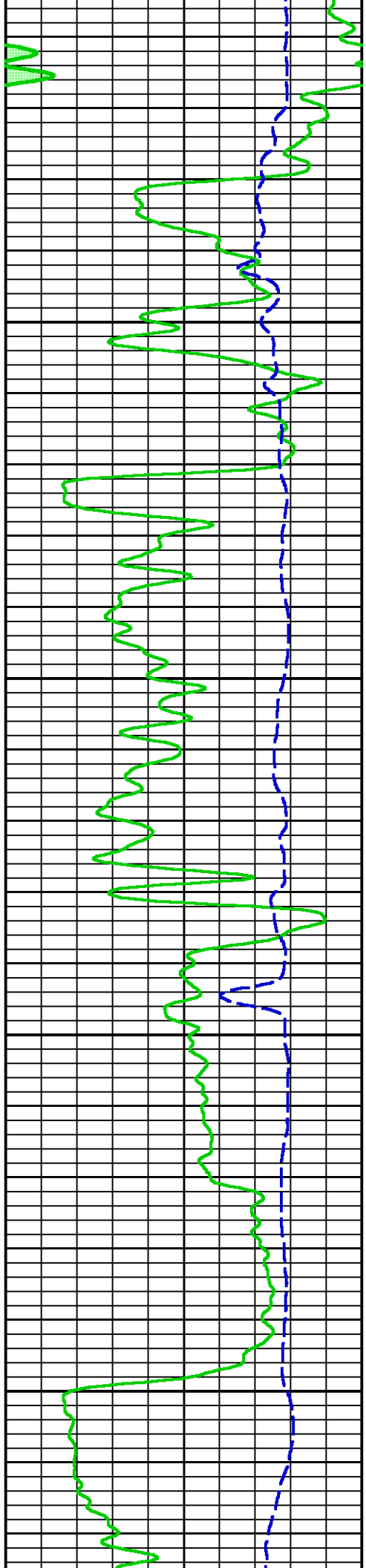
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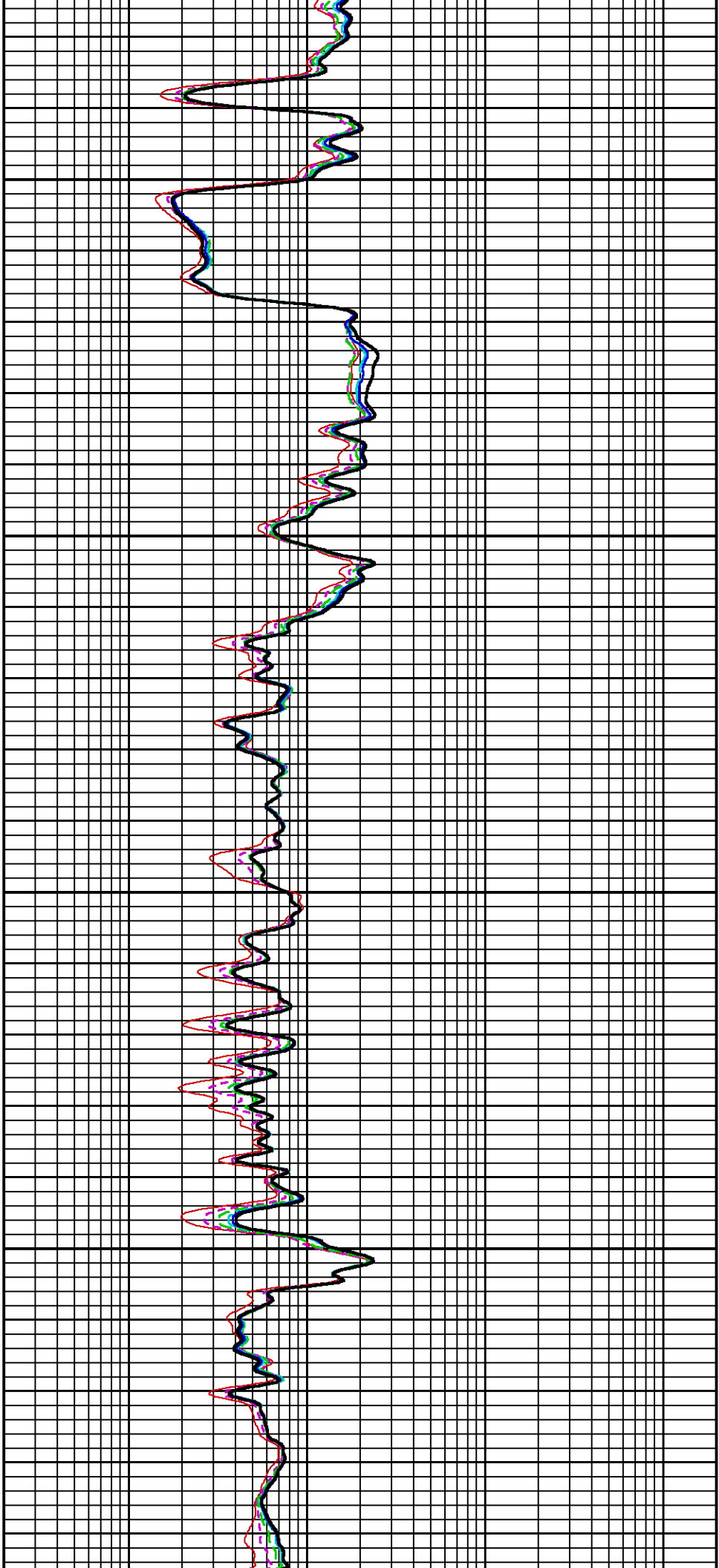




2900

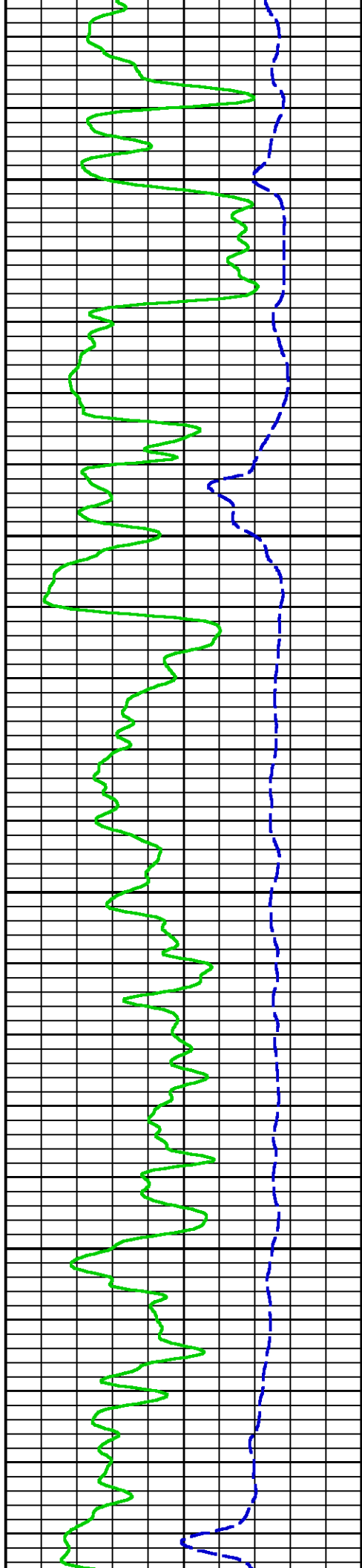
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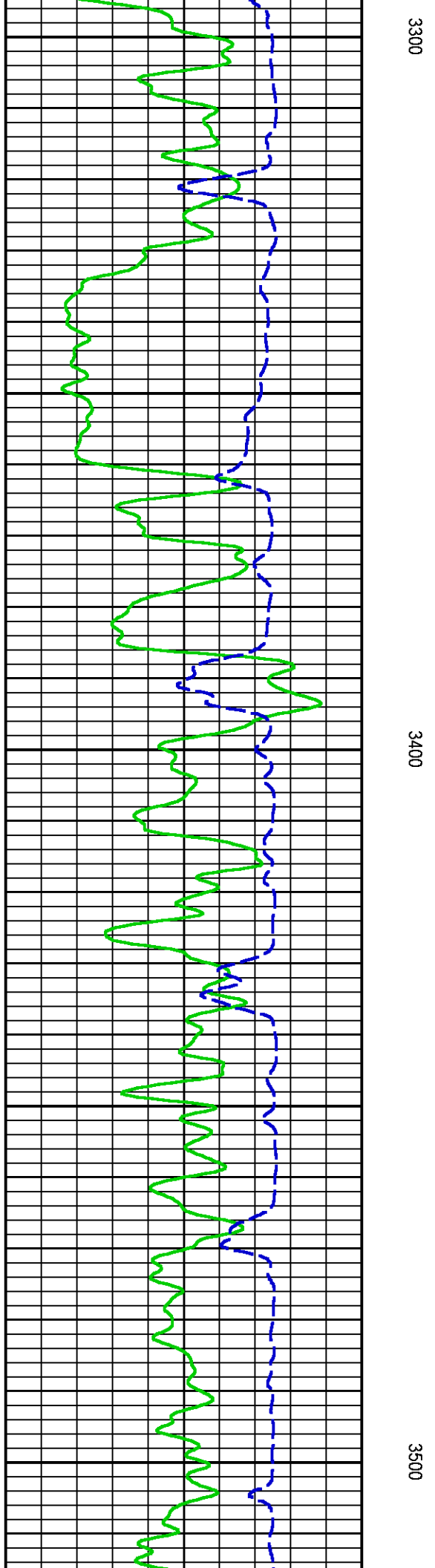
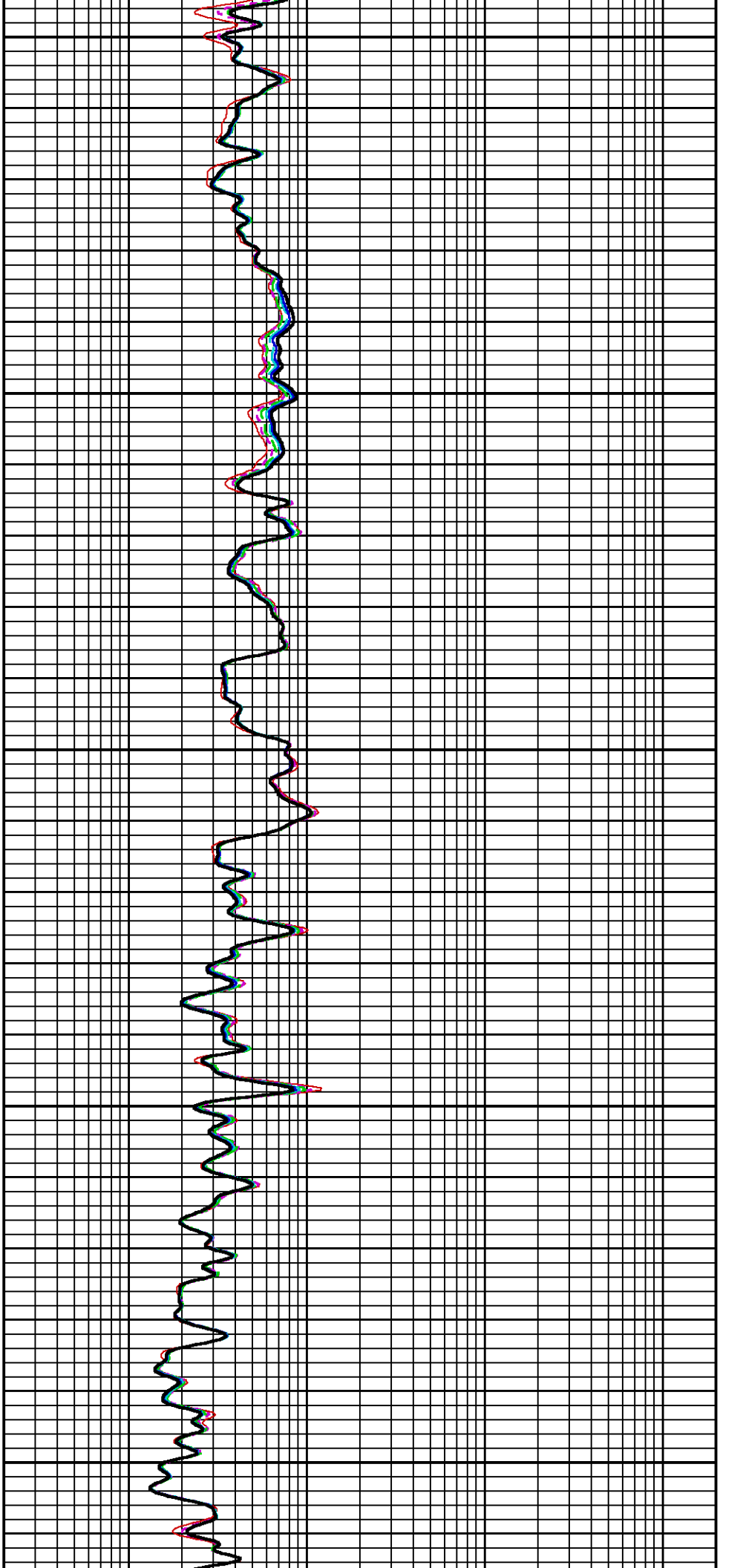


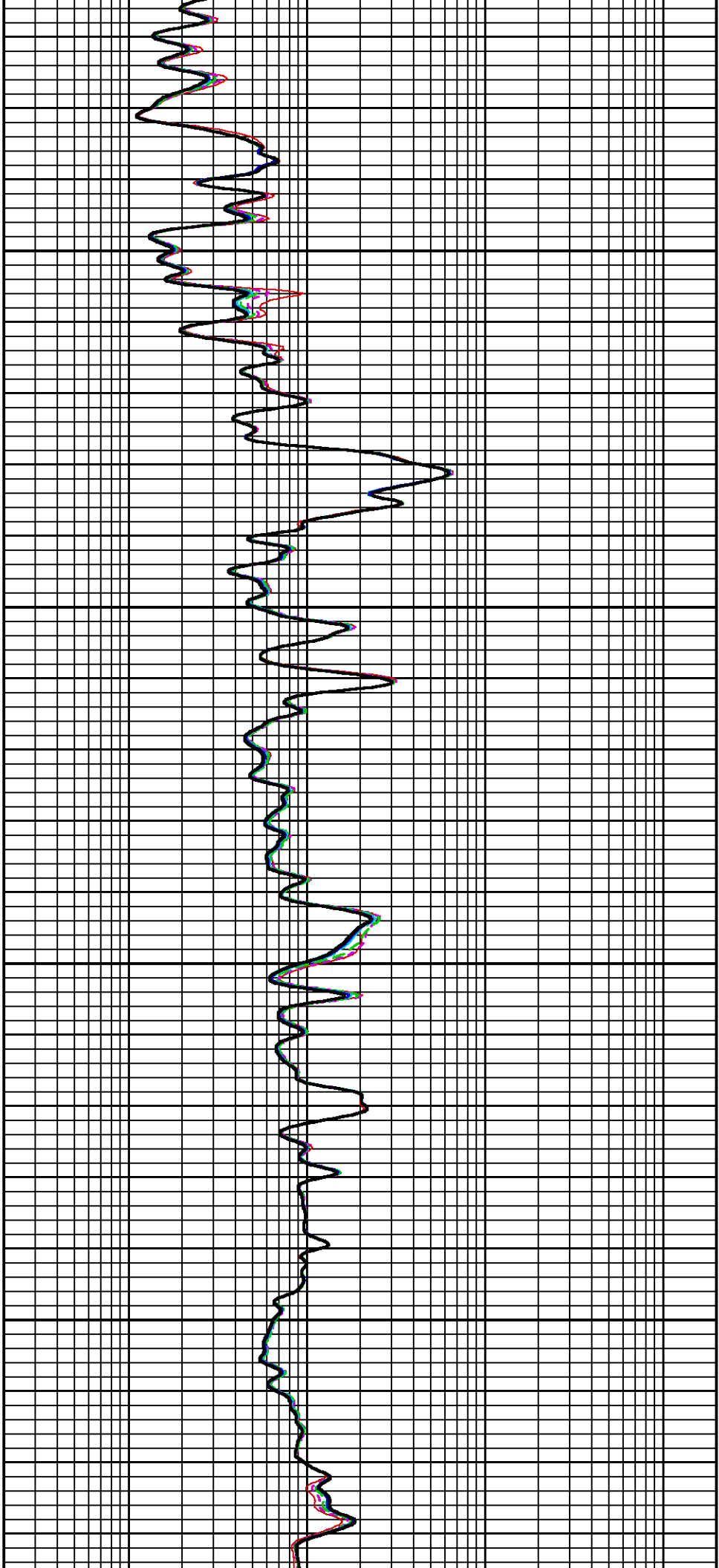


3100

3200

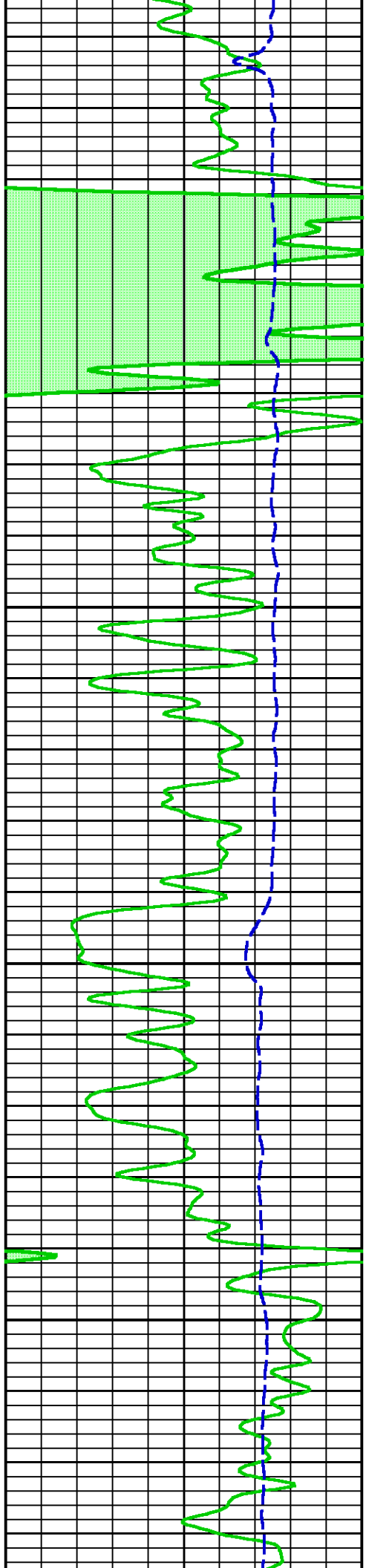


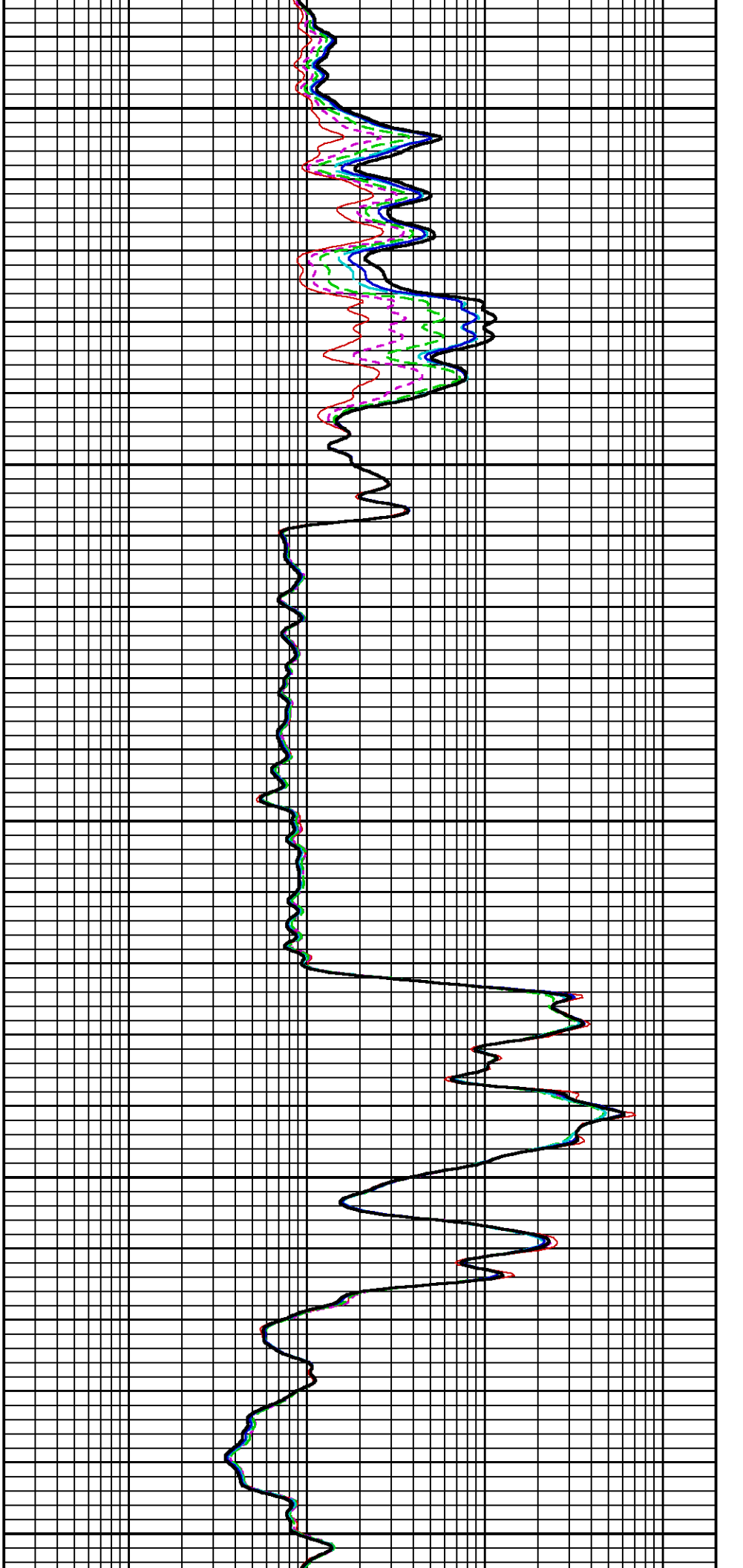




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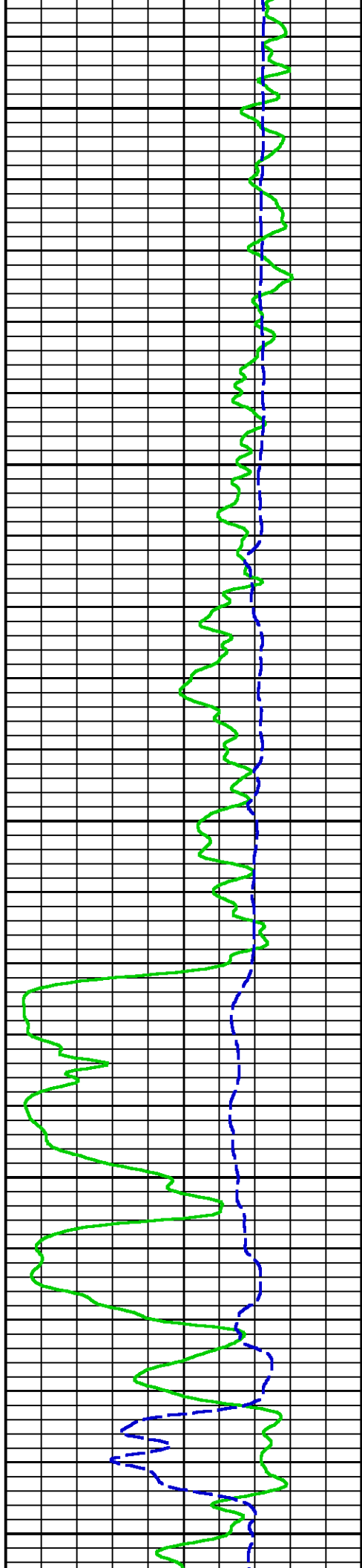
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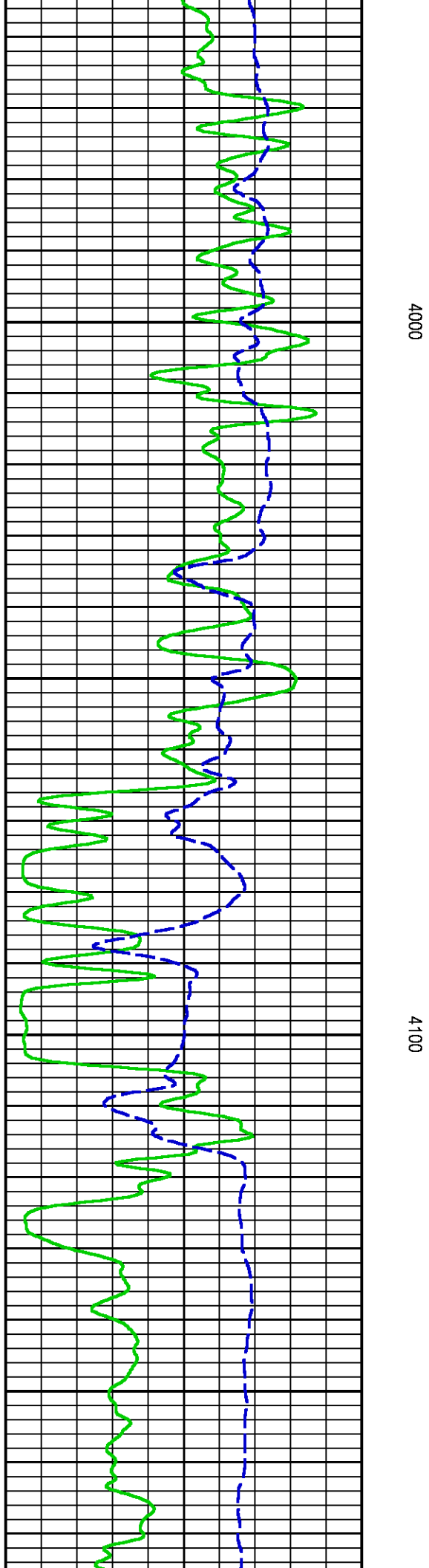
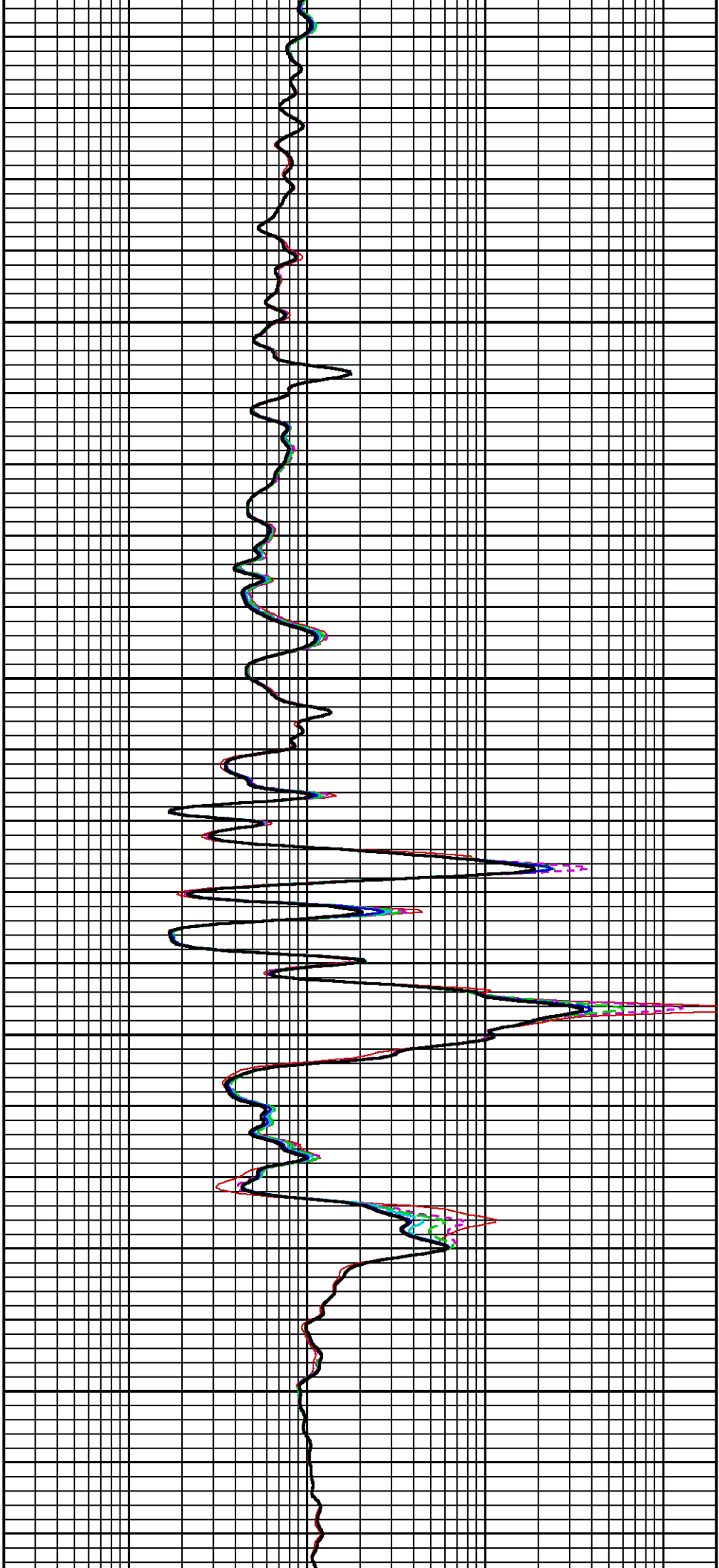


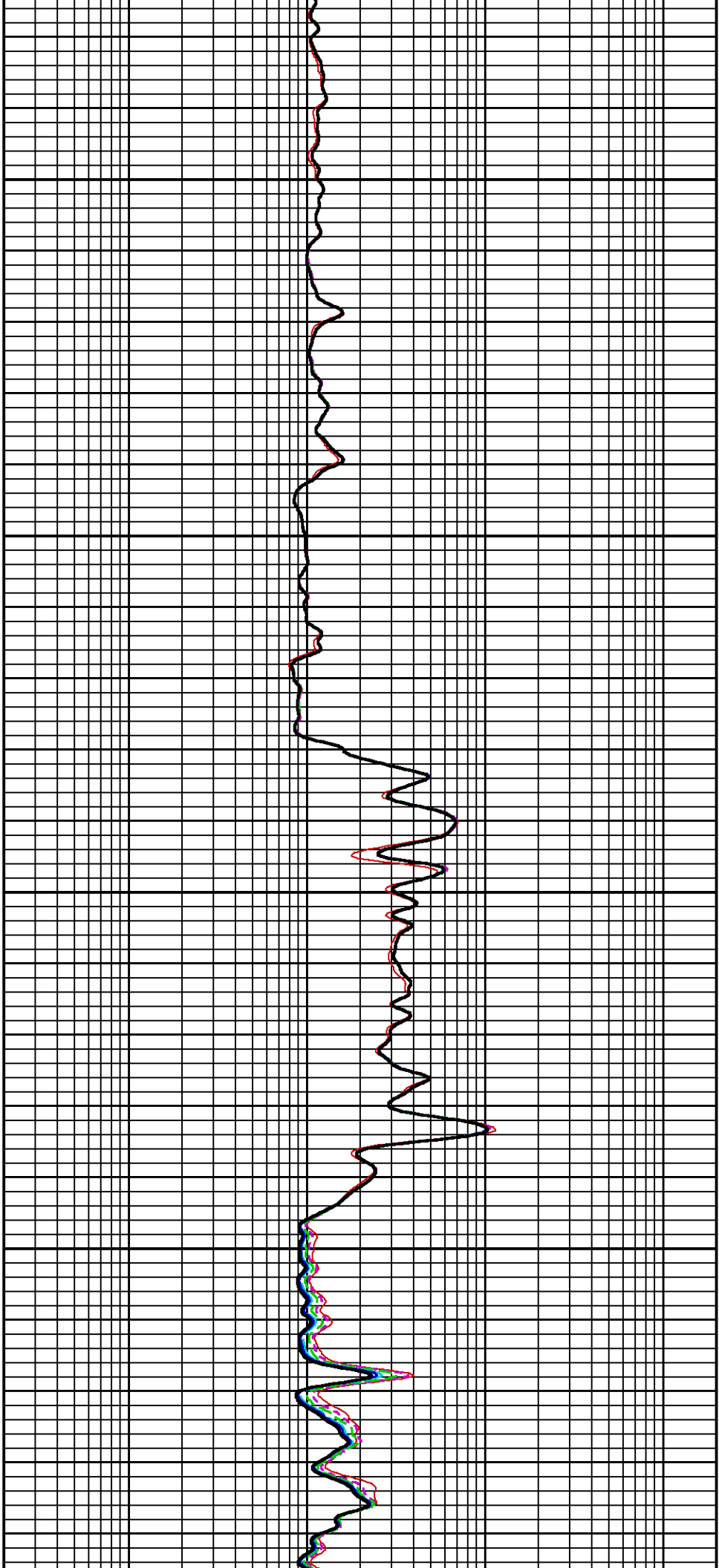


3800

3900

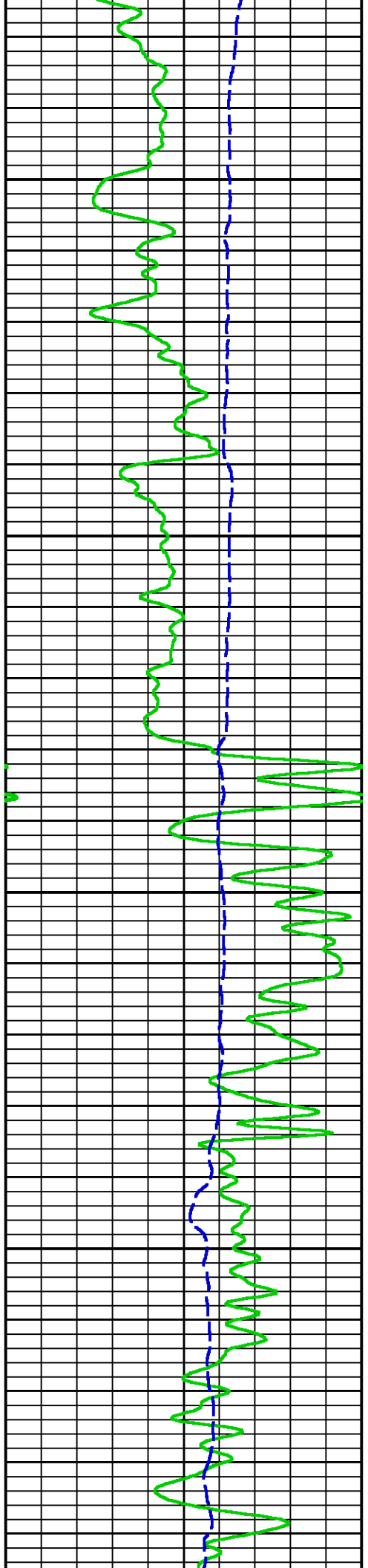


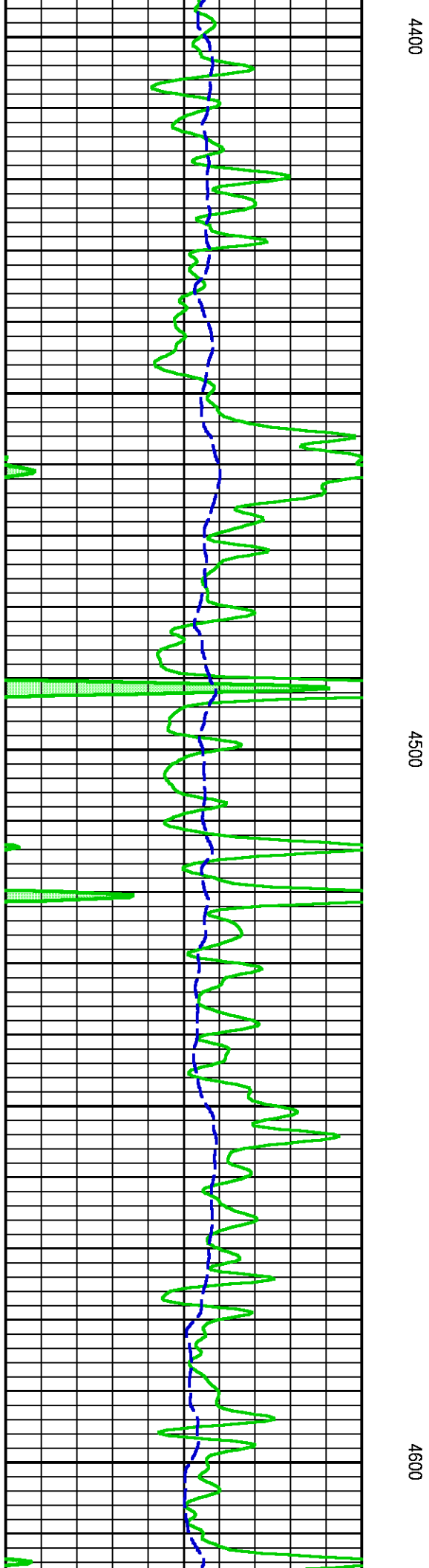
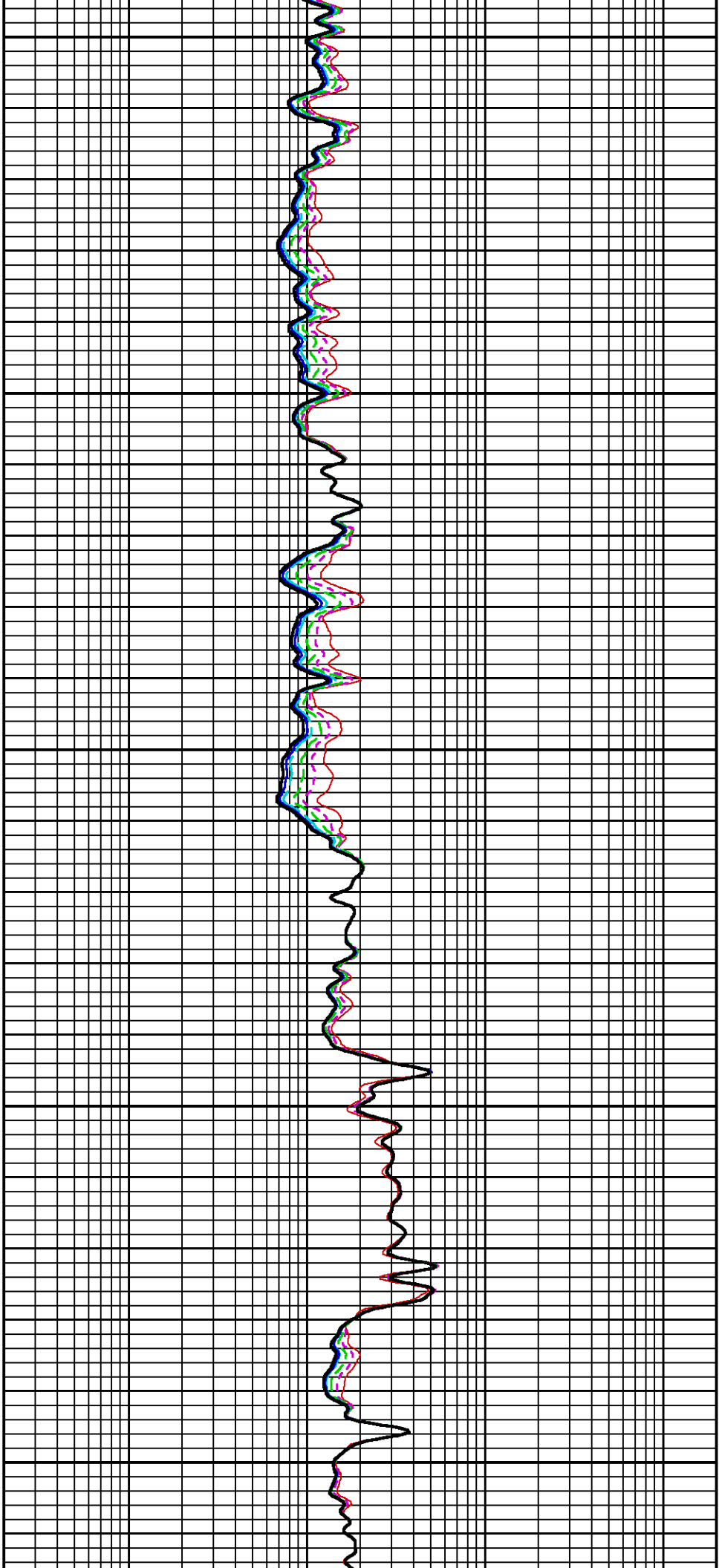


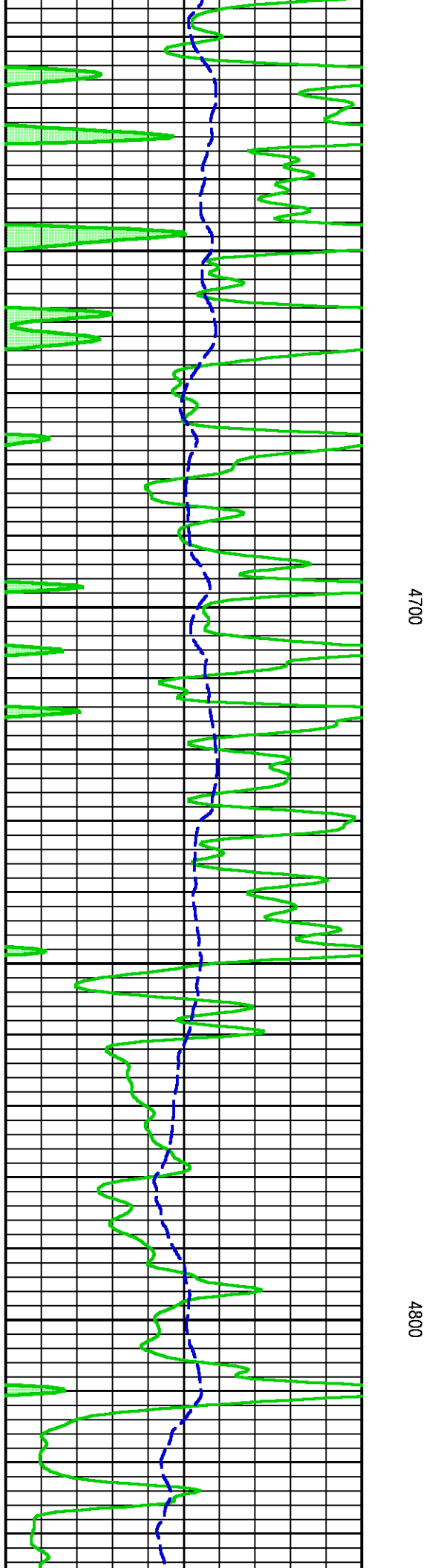
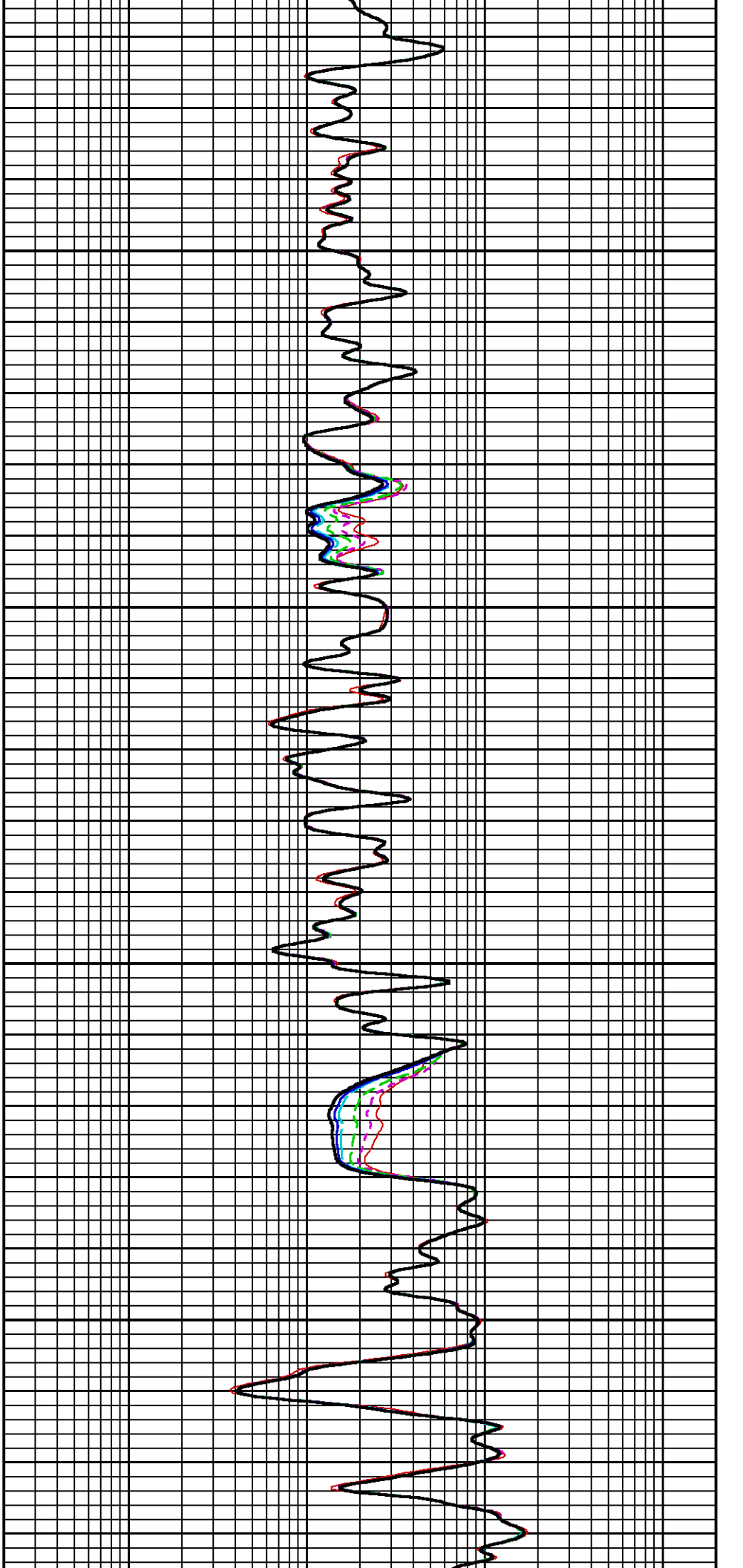


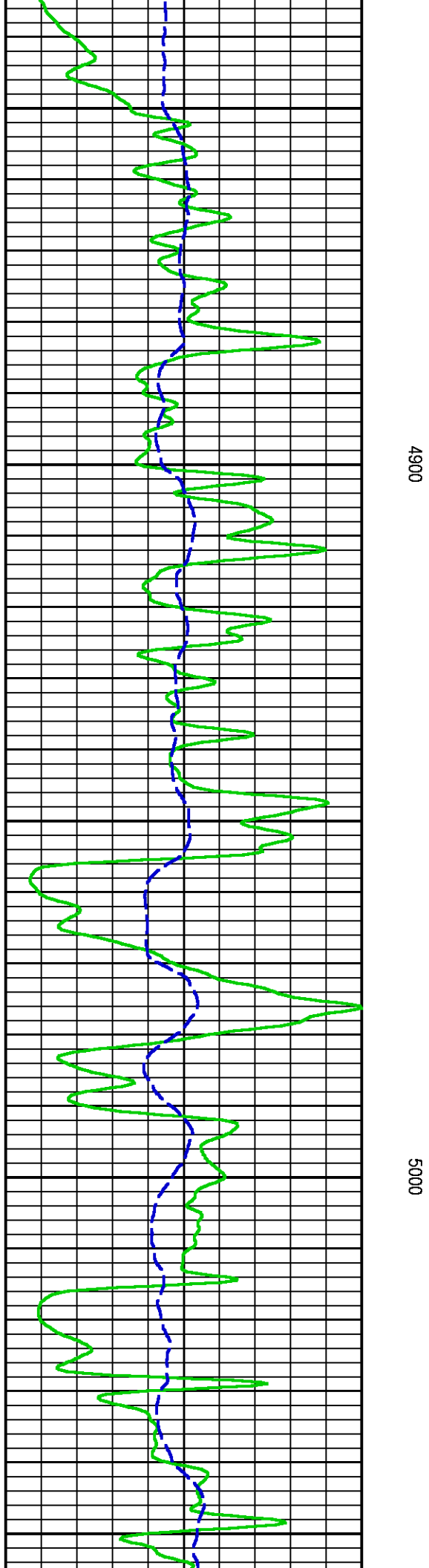
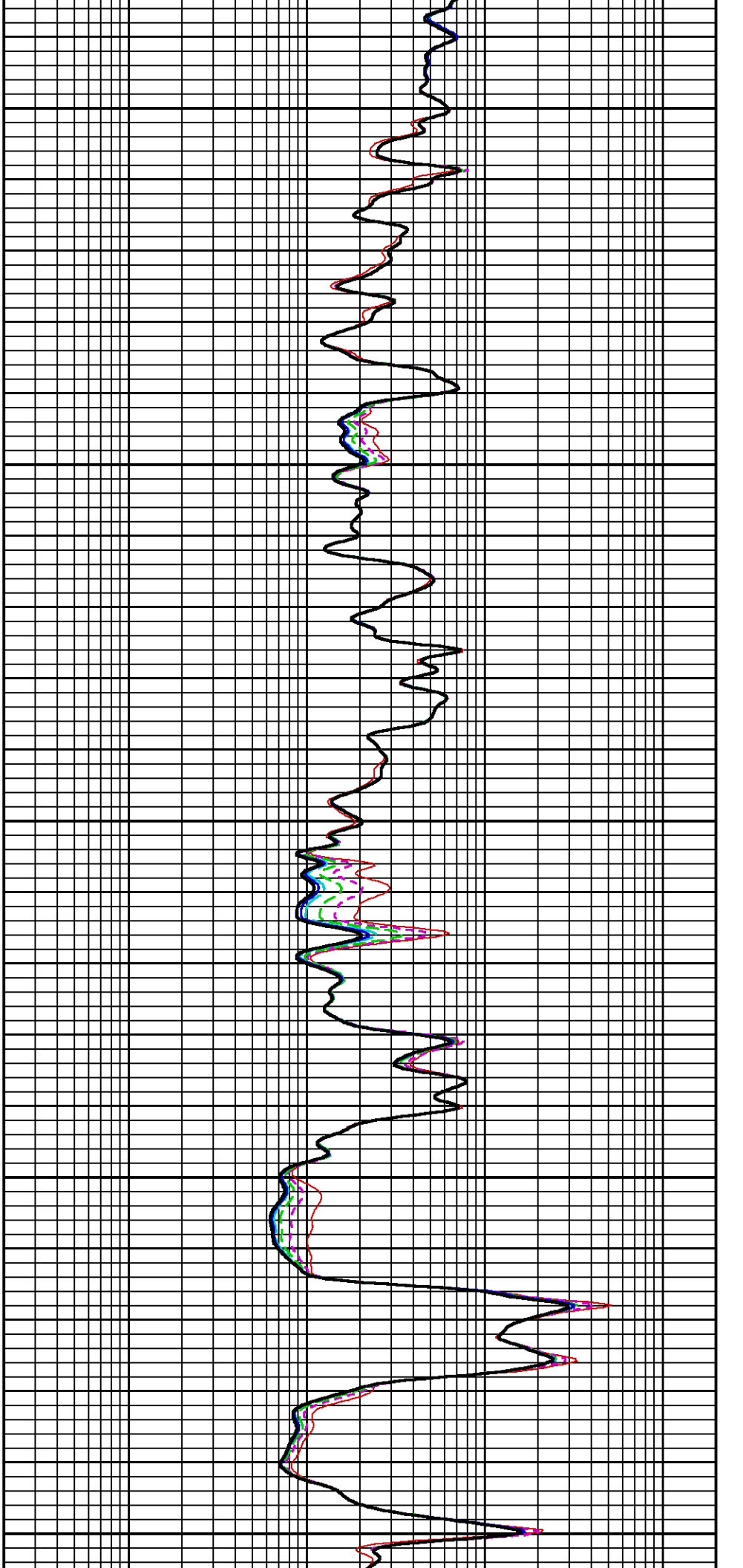
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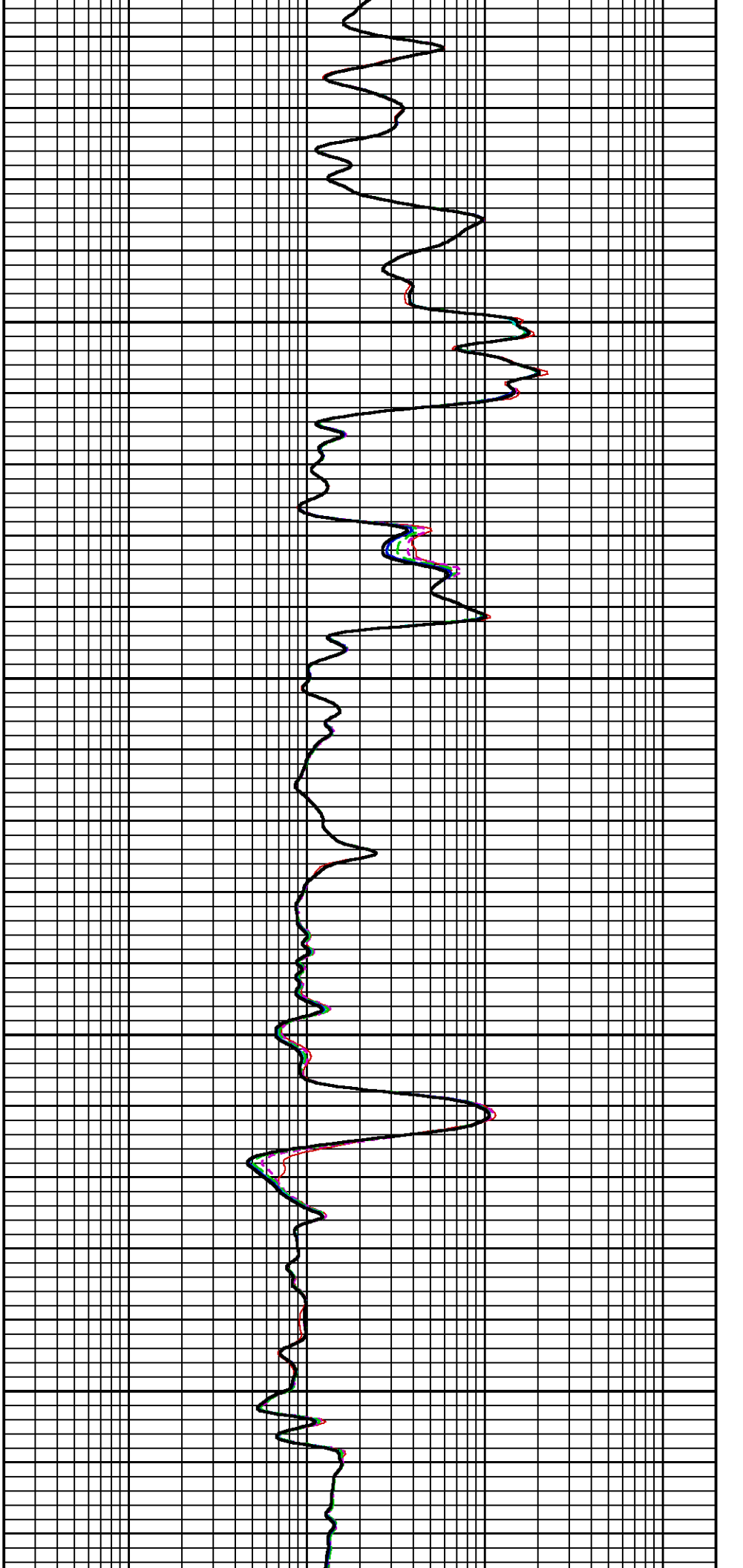
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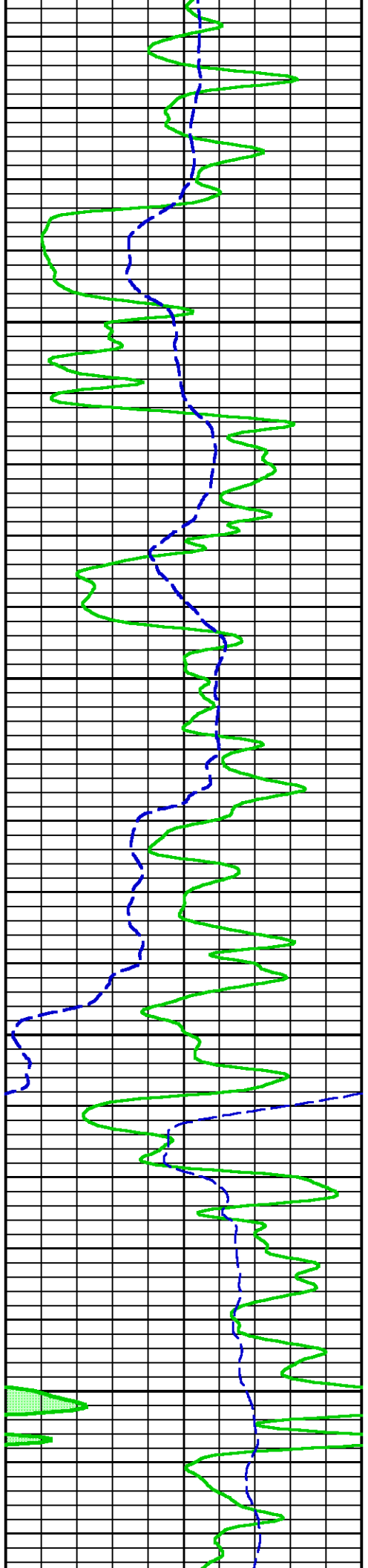


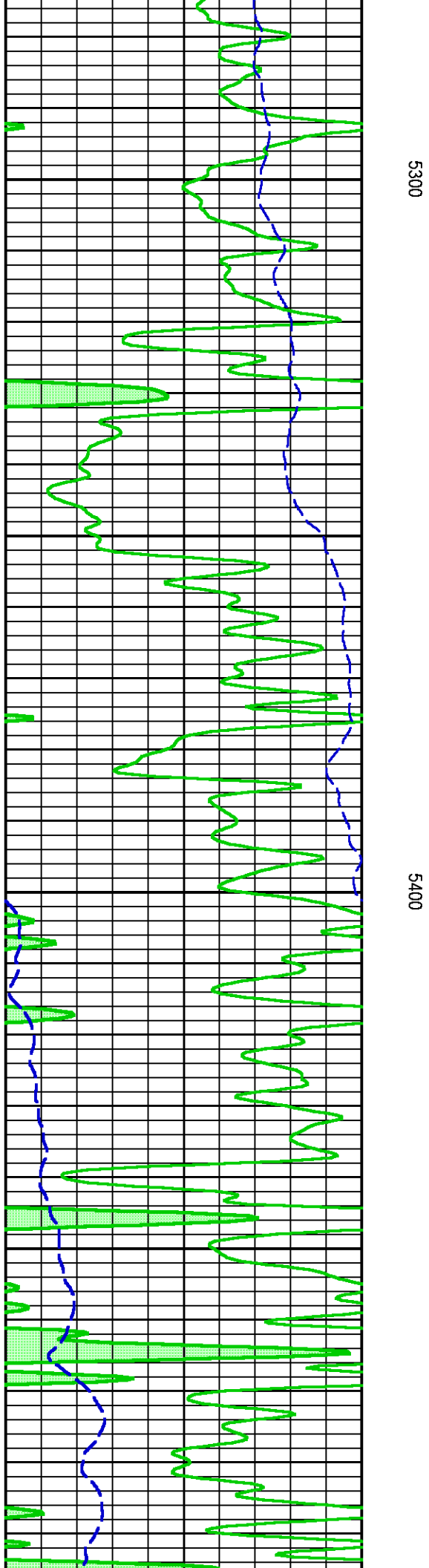
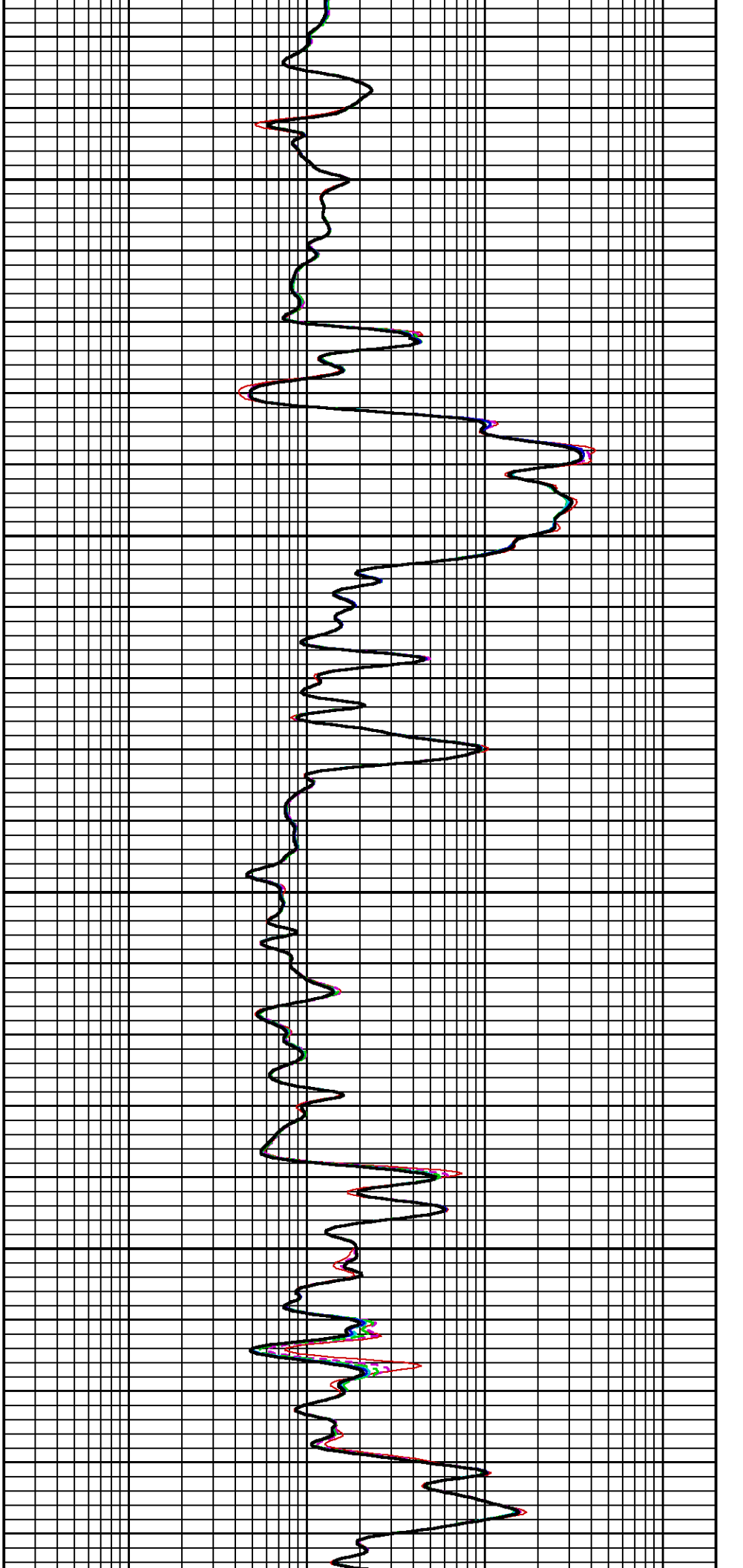


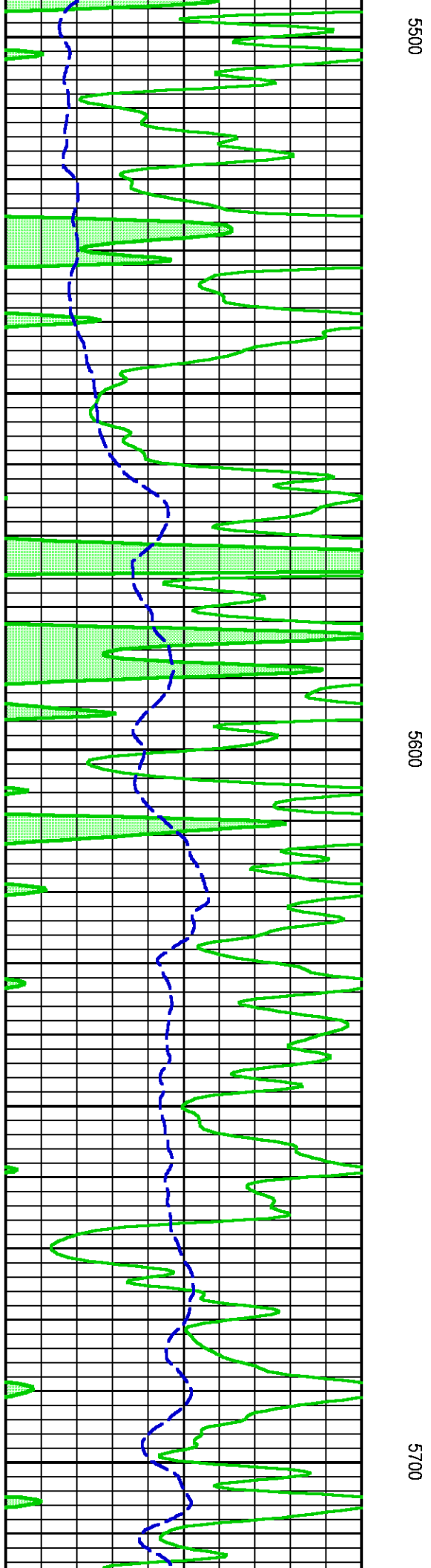
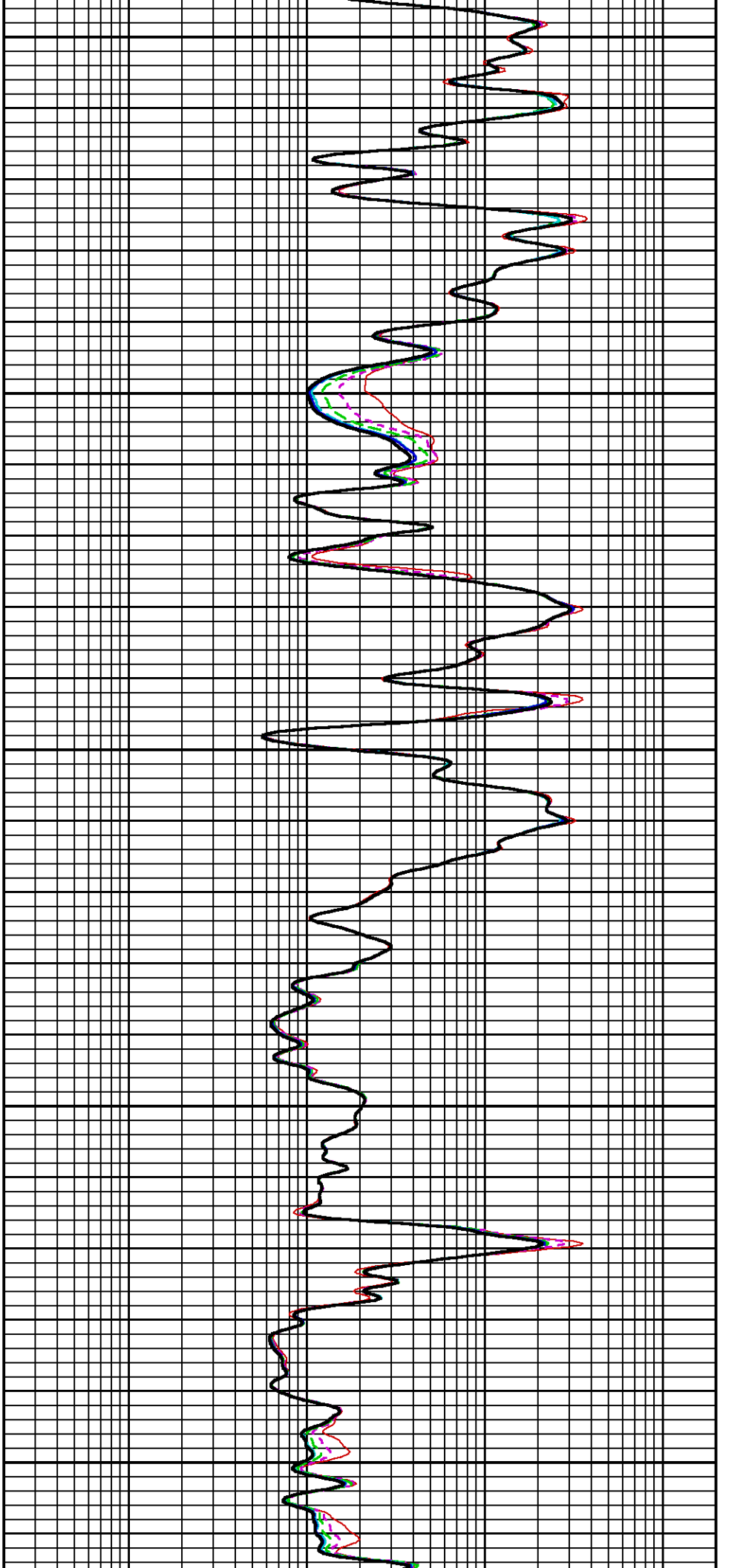


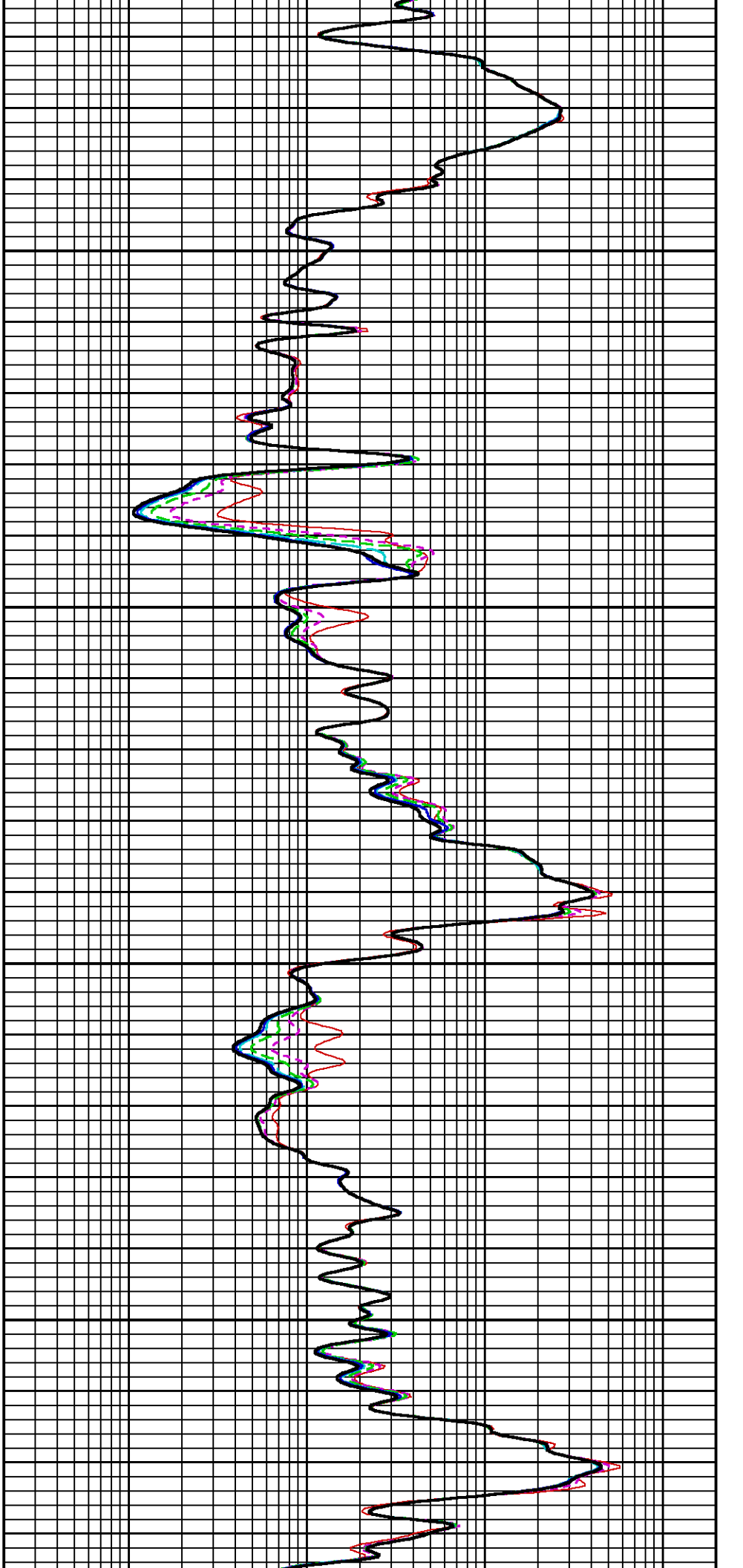
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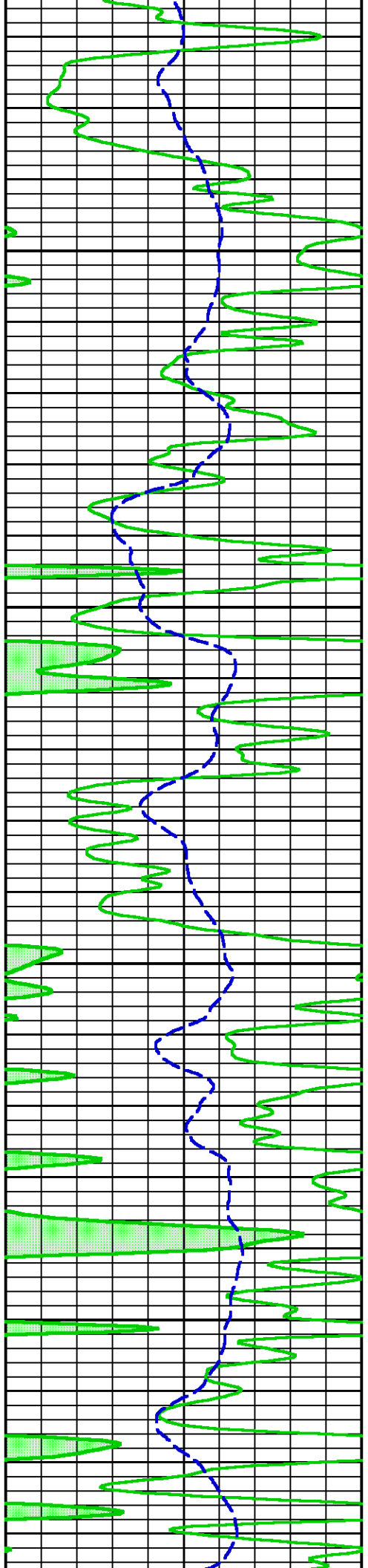


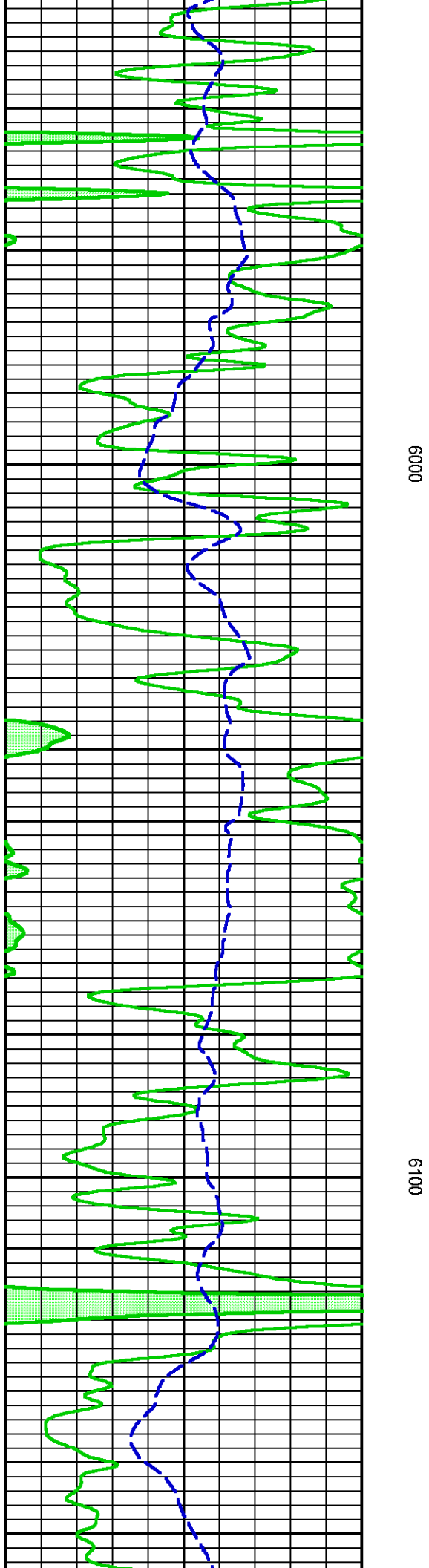
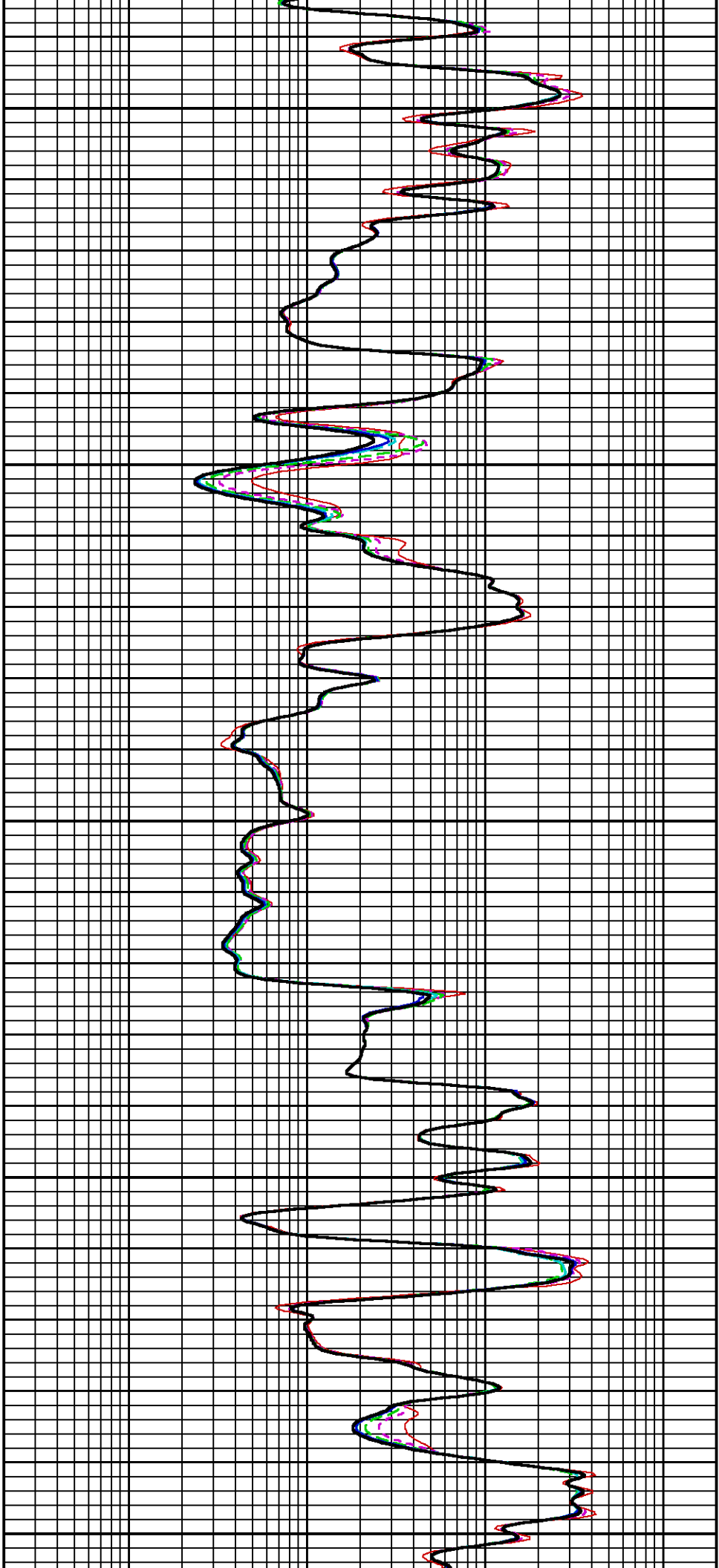


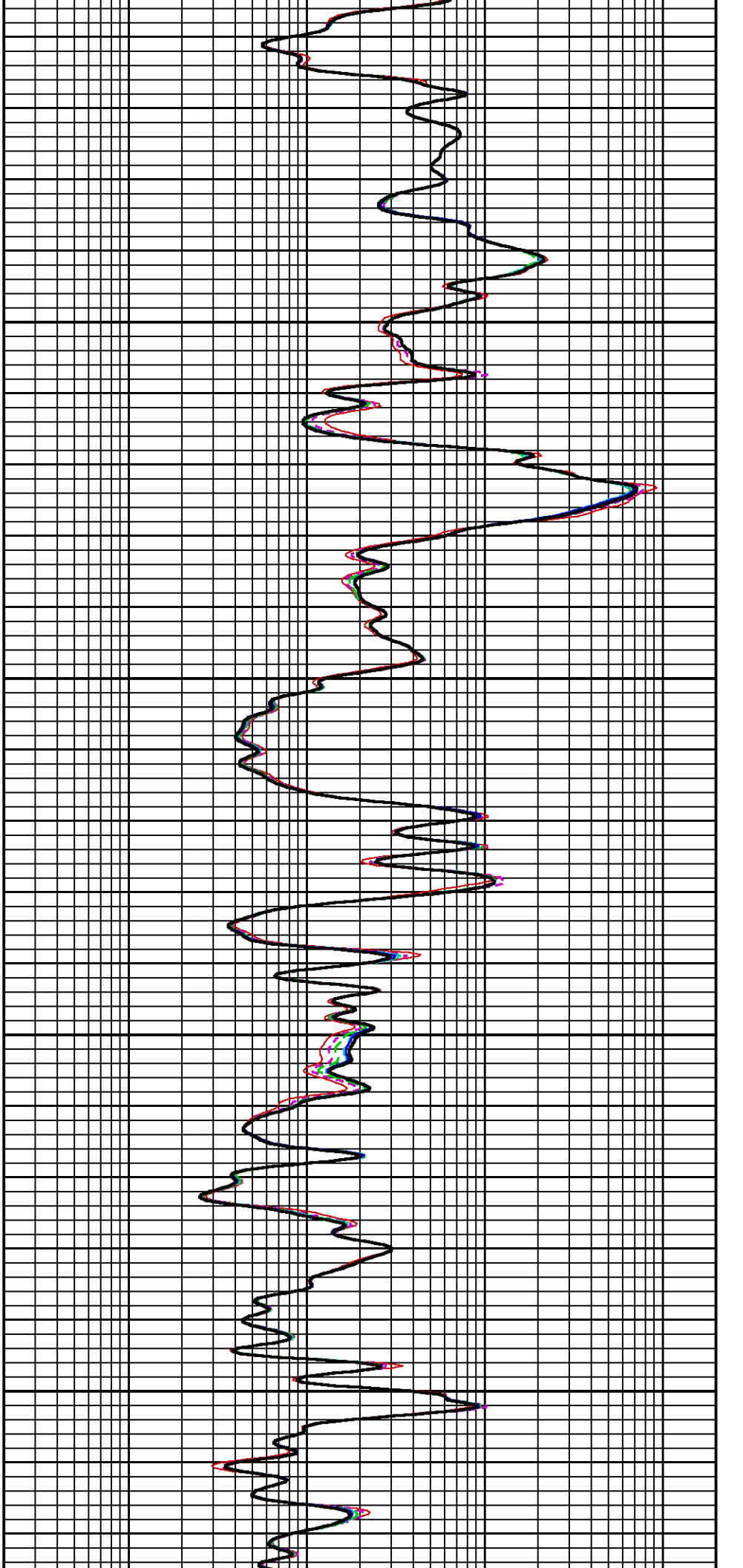


5800

5900

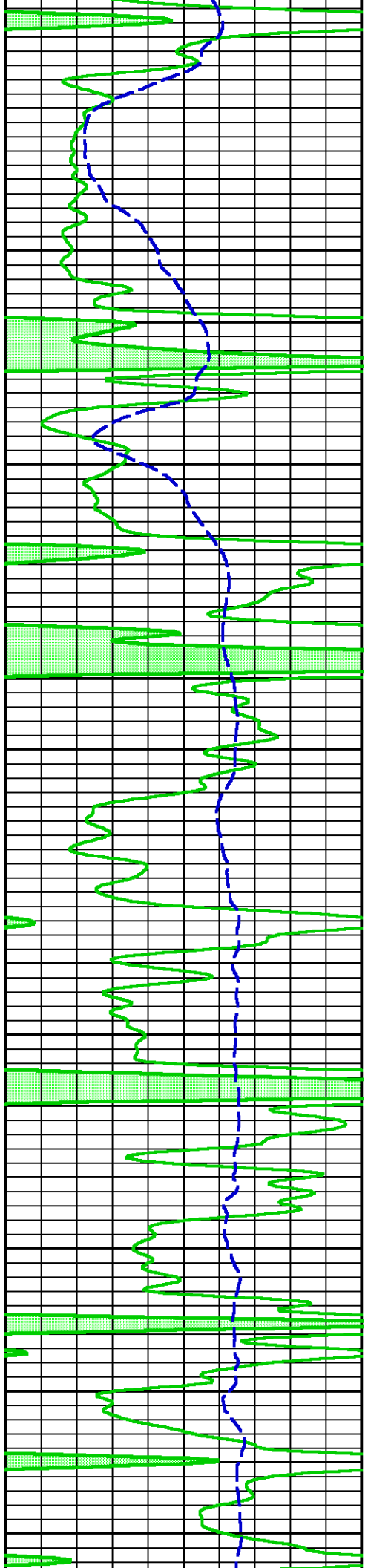


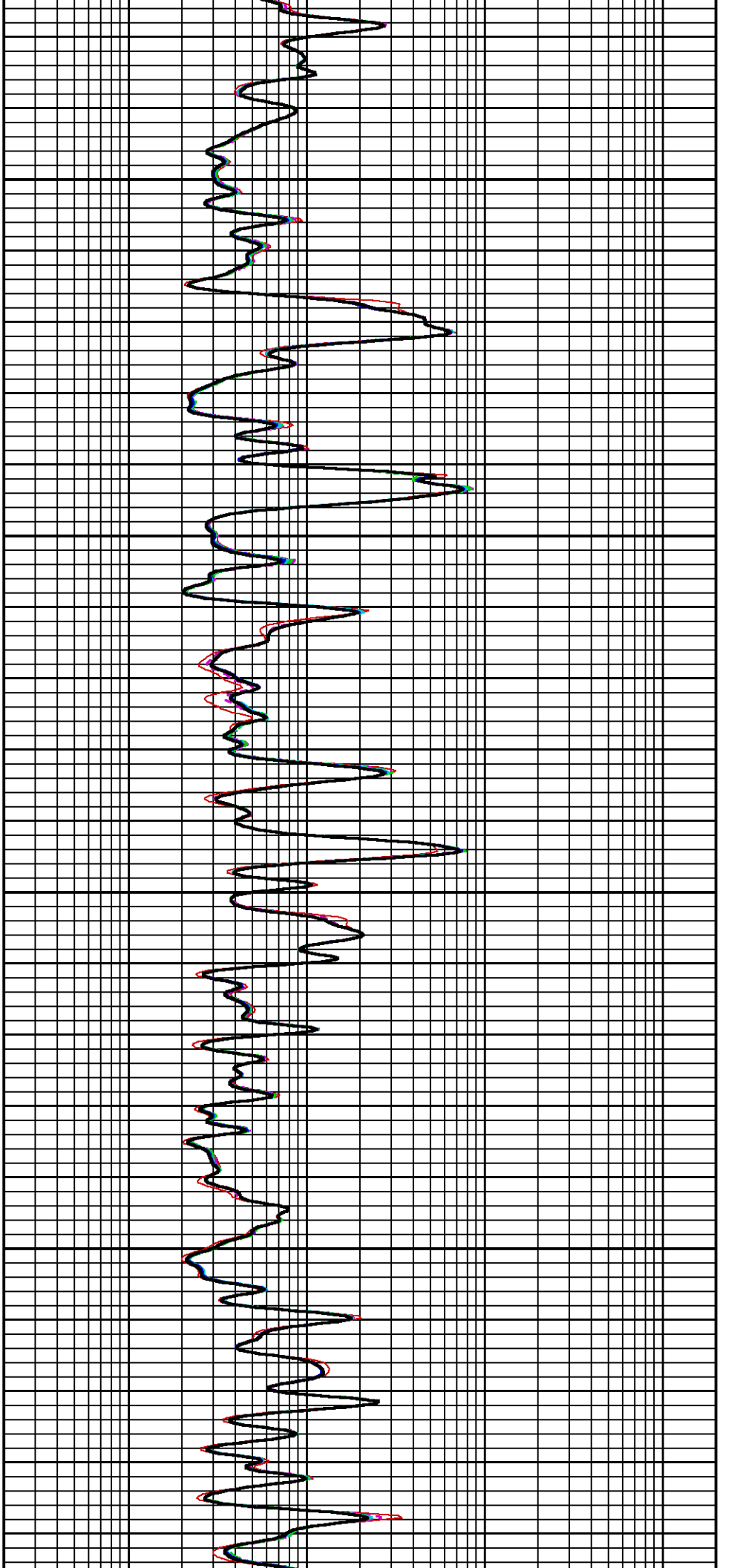




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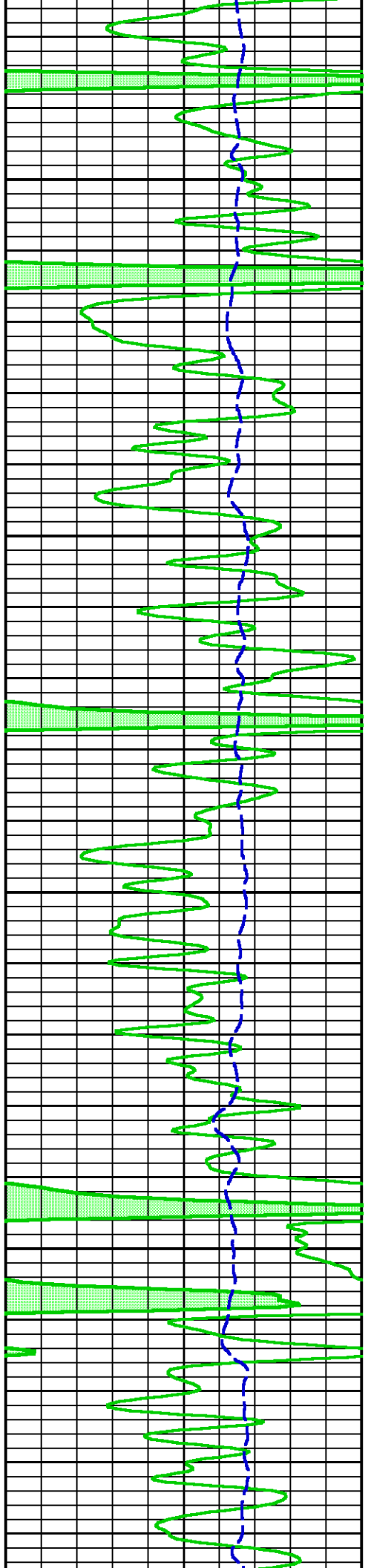
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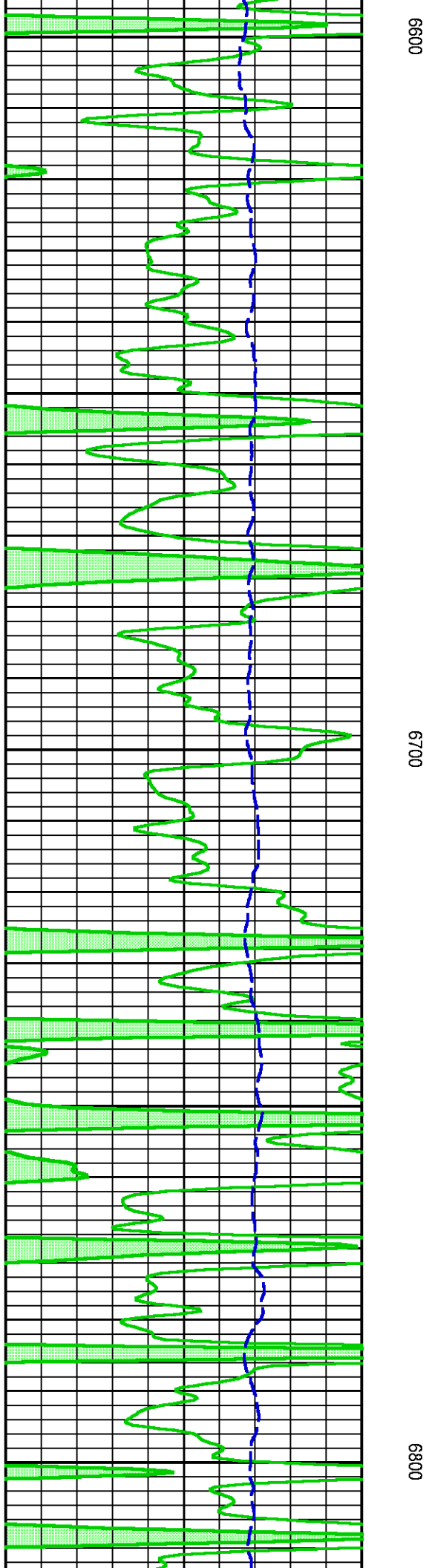
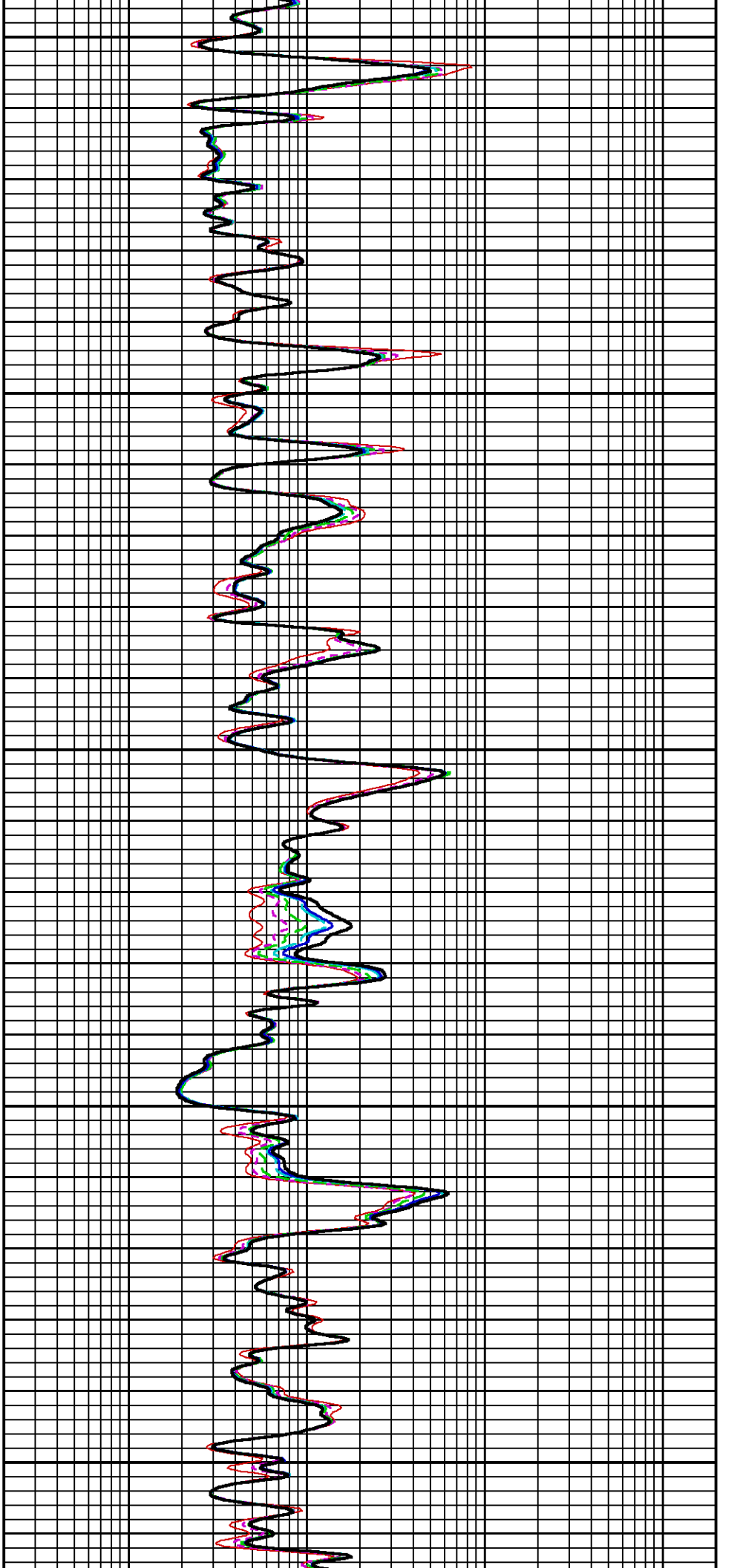


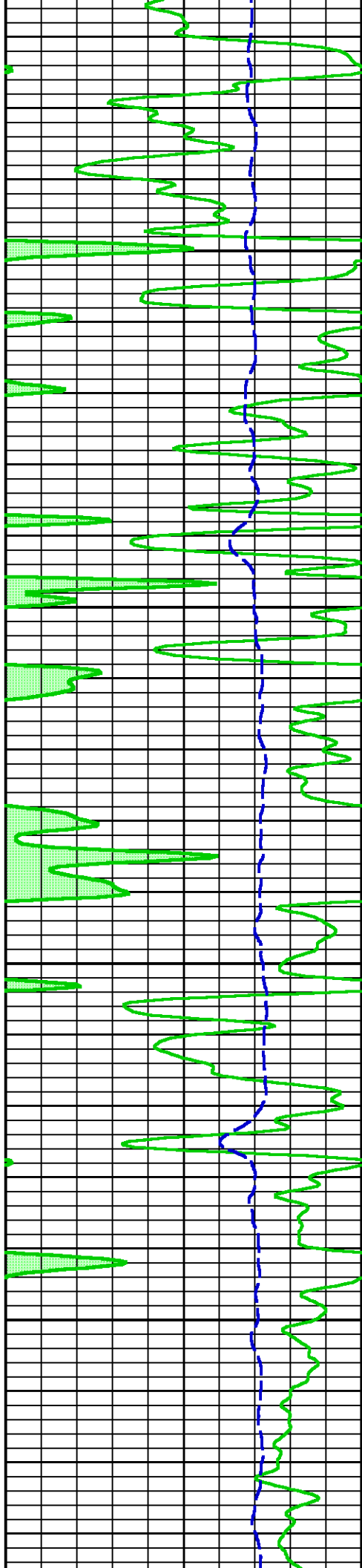


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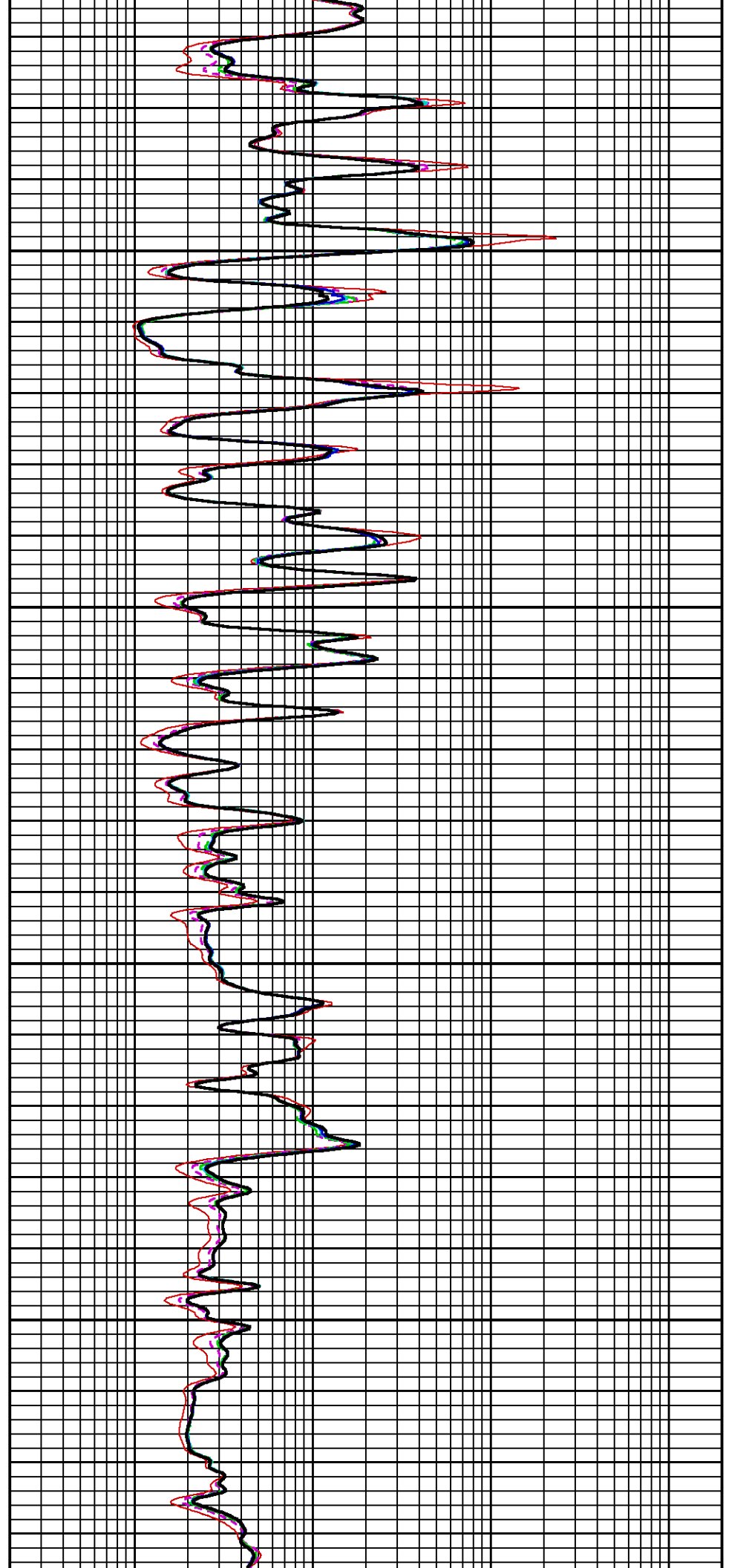


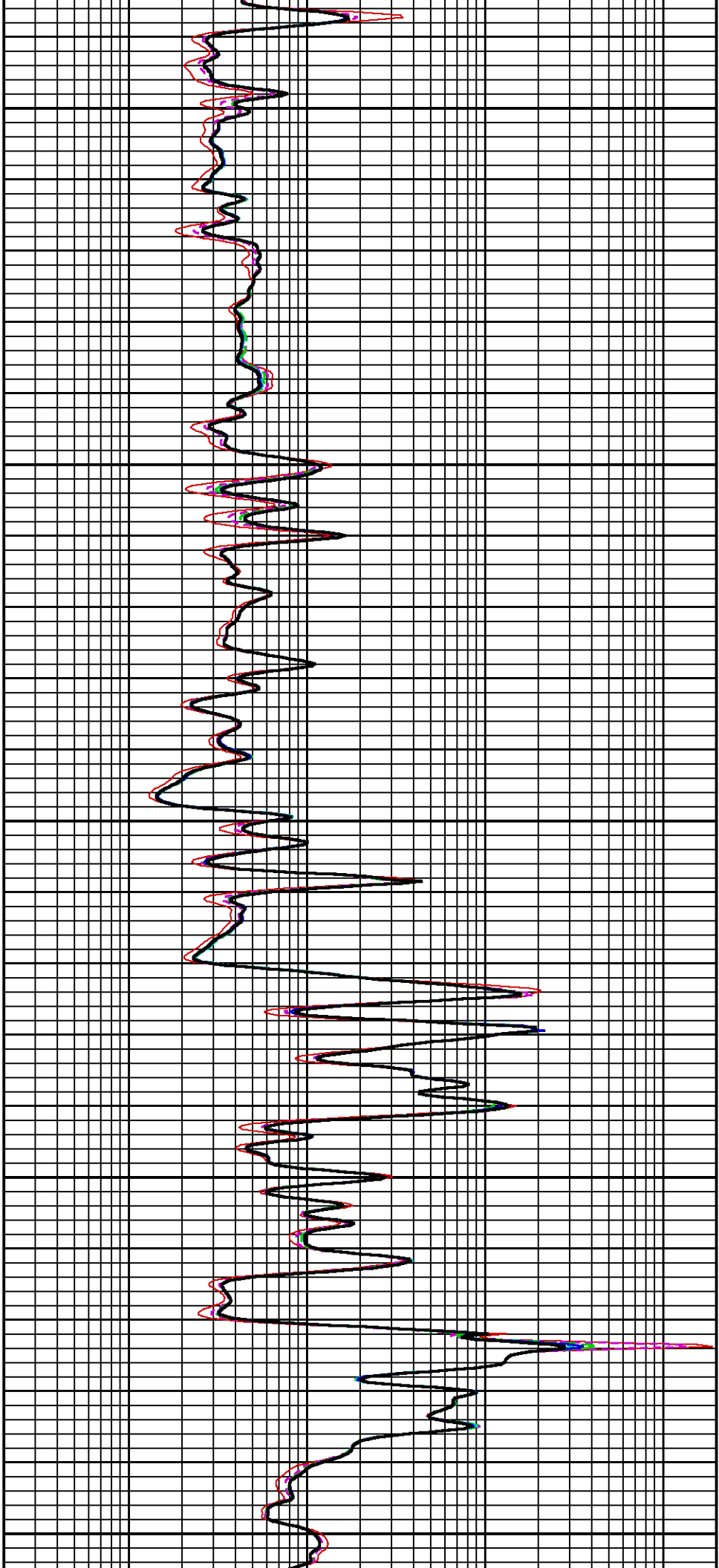




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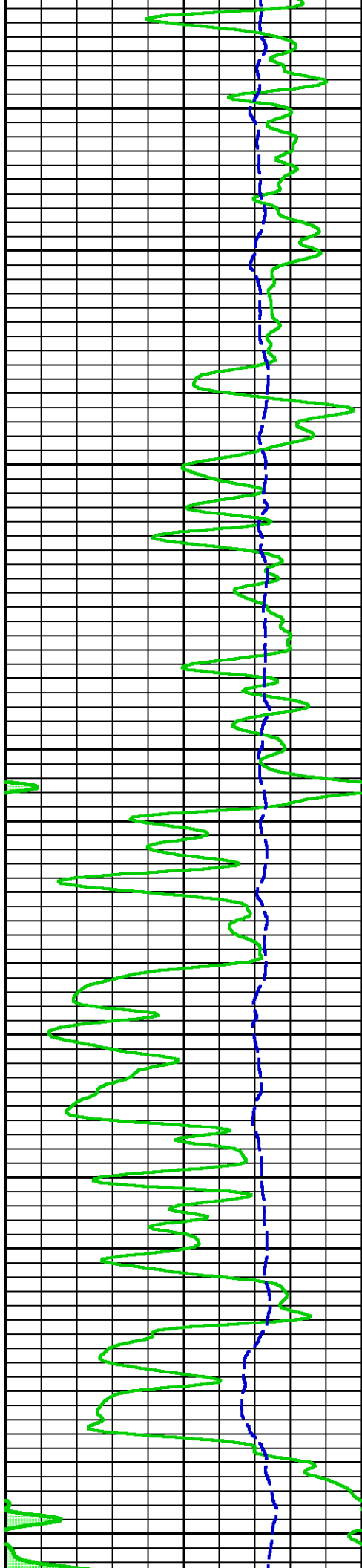
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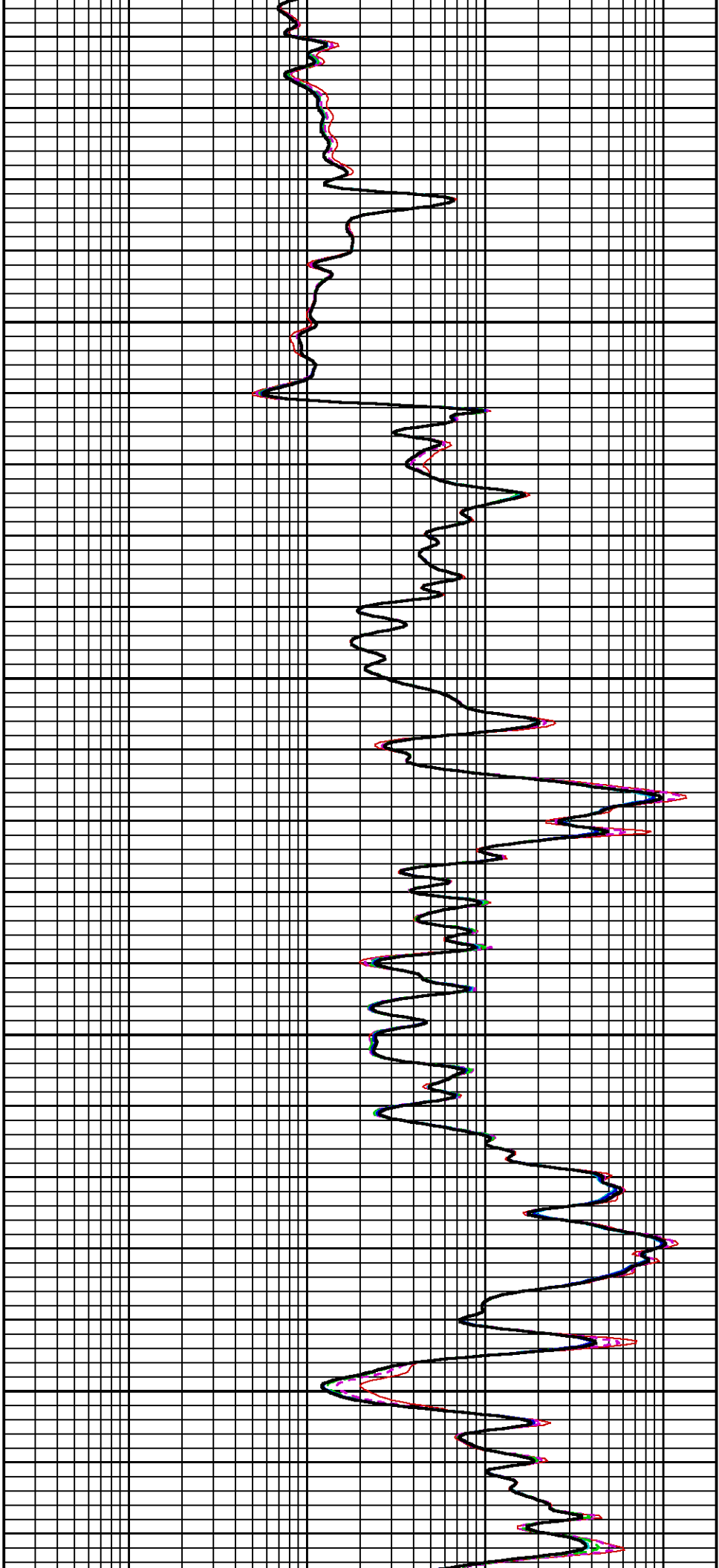




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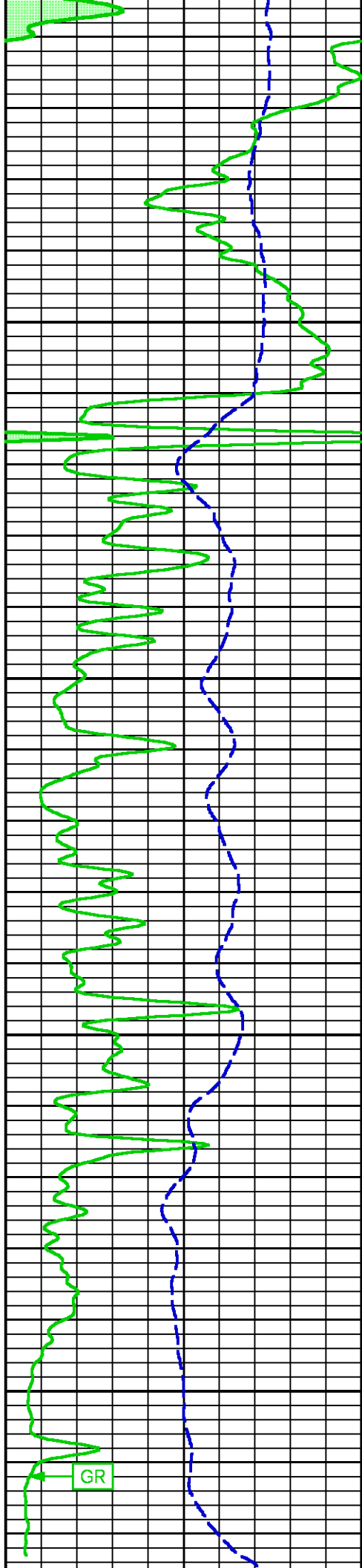
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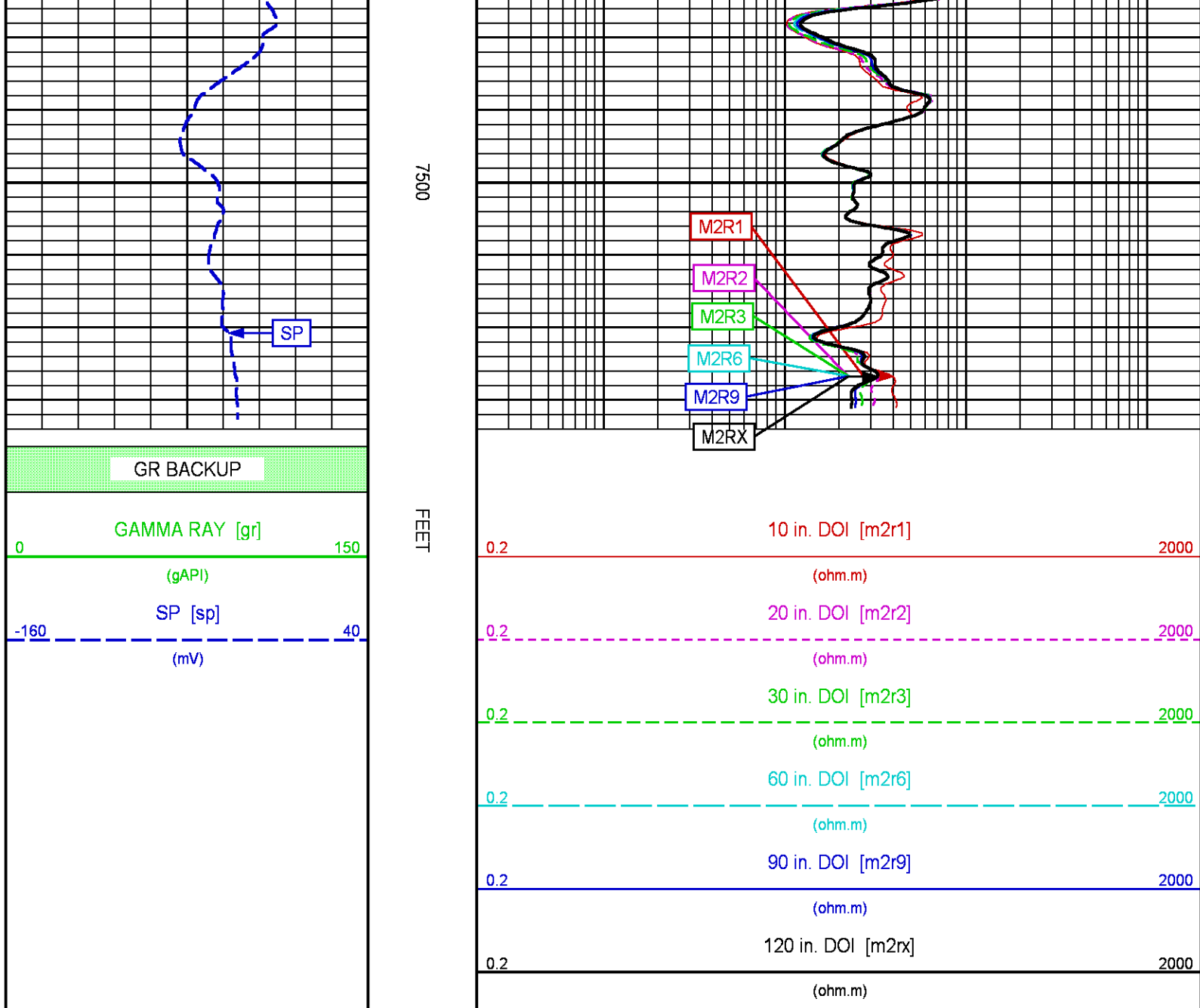


7300

7400



GR



CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/K3_COBANK_13_18/MSALM_DAL_ML_XC1.tp1

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XB 179184

DATE/TIME PERFORMED: Thu Dec 12 11:53:43 2019

UNIT #: 3882TD HL6728

CALB JIG #: 4702NK DA_228

BACKGROUND
(cts/s)

CALBRTR ON
(cts/s)

CR DIFF
(cts/s)

MULT

BACKGROUND
(gAPI)

CALBRTR ON
(gAPI)

CALBRTR
(gAPI)

GR	194.00	1099.20	905.2	0.166	32.15	182.15	150
			830.0	960.0			

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XB 179184

DATE/TIME PERFORMED: Thu Dec 12 11:59:07 2019

UNIT #: 3882TD HL6728

VERI JIG #: 4702NK DA_228

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	194.93	1108.78	0.166	32.30	183.73	151.43
						140.00 160.00

HDIL PRIMARY CALIBRATION SUMMARY

TOOL #: 1515MA 179553

DATE/TIME PERFORMED: Sun Nov 10 15:31:20 2019

UNIT #: 3885TA HL6670

GRCOND ID & DATE: 188 082996

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-0.003 -0.200 0.200	0.001 -0.100 0.100	0.007 -0.100 0.100	0.002 -0.100 0.100	-0.001 -0.100 0.100	0.000 -0.100 0.100	-0.000 -0.100 0.100	-0.002 -0.100 0.100
Coil 0 Q	0.006 -1.000 1.000	0.009 -0.200 0.200	0.004 -0.100 0.100	0.001 -0.100 0.100	0.003 -0.100 0.100	0.002 -0.100 0.100	0.003 -0.100 0.100	0.002 -0.100 0.100
Coil 1 R	0.001 -0.200 0.200	0.006 -0.100 0.100	0.010 -0.100 0.100	0.008 -0.100 0.100	0.006 -0.100 0.100	0.006 -0.100 0.100	0.008 -0.100 0.100	0.005 -0.100 0.100
Coil 1 Q	-0.001 -1.000 1.000	0.001 -0.200 0.200	-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	-0.001 -0.100 0.100
Coil 2 R	0.004 -0.200 0.200	0.003 -0.100 0.100	0.005 -0.100 0.100	0.001 -0.100 0.100	-0.001 -0.100 0.100	0.001 -0.100 0.100	0.004 -0.100 0.100	0.007 -0.100 0.100
Coil 2 Q	-0.005 -1.000 1.000	-0.007 -0.200 0.200	0.002 -0.100 0.100	-0.002 -0.100 0.100	-0.004 -0.100 0.100	-0.004 -0.100 0.100	-0.002 -0.100 0.100	-0.001 -0.100 0.100
Coil 3 R	-0.000 -0.100 0.100	0.004 -0.100 0.100	0.007 -0.100 0.100	0.008 -0.100 0.100	0.009 -0.100 0.100	0.006 -0.100 0.100	0.002 -0.100 0.100	0.002 -0.100 0.100
Coil 3 Q	-0.009 -0.500 0.500	-0.009 -0.200 0.200	0.001 -0.100 0.100	-0.003 -0.100 0.100	-0.003 -0.100 0.100	0.000 -0.100 0.100	0.005 -0.100 0.100	-0.002 -0.100 0.100
Coil 4 R	-0.005 -0.200 0.200	0.005 -0.200 0.200	0.005 -0.200 0.200	-0.006 -0.200 0.200	-0.003 -0.200 0.200	0.003 -0.200 0.200	0.005 -0.200 0.200	0.005 -0.200 0.200
Coil 4 Q	-0.018 -1.000 1.000	0.005 -0.400 0.400	0.006 -0.200 0.200	-0.002 -0.200 0.200	-0.005 -0.200 0.200	-0.004 -0.200 0.200	-0.003 -0.200 0.200	-0.003 -0.200 0.200
Coil 5 R	0.004 -0.400 0.400	0.009 -0.400 0.400	0.012 -0.400 0.400	0.014 -0.400 0.400	-0.000 -0.400 0.400	0.009 -0.400 0.400	0.003 -0.400 0.400	-0.003 -0.400 0.400
Coil 5 Q	-0.008 -2.000 2.000	-0.003 -0.800 0.800	-0.003 -0.400 0.400	0.005 -0.400 0.400	0.002 -0.400 0.400	0.001 -0.400 0.400	0.007 -0.400 0.400	0.004 -0.400 0.400
Coil 6 R	-0.006 -1.000 1.000	-0.014 -1.000 1.000	-0.018 -1.000 1.000	-0.001 -1.000 1.000	0.006 -1.000 1.000	-0.001 -1.000 1.000	0.022 -1.000 1.000	0.021 -1.000 1.000
Coil 6 Q	-0.003 -5.000 5.000	0.007 -2.000 2.000	-0.004 -1.000 1.000	-0.015 -1.000 1.000	-0.011 -1.000 1.000	-0.010 -1.000 1.000	-0.036 -1.000 1.000	0.009 -1.000 1.000

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
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Coil 0 M	125.54	123.97	121.01	116.54	111.03	104.23	96.80	88.29
	100.00 150.00	100.00 150.00	98.00 150.00	96.00 140.00	92.00 140.00	87.00 130.00	82.00 120.00	76.00 110.00
Coil 0 P	8.041	25.218	42.106	58.856	75.472	92.003	108.311	124.515
	6.000 9.000	19.000 28.000	32.000 47.000	44.000 66.000	57.000 85.000	70.000 100.000	82.000 120.000	95.000 140.000
Coil 1 M	216.51	213.96	209.10	201.77	192.61	181.21	168.55	154.01
	180.00 270.00	180.00 270.00	170.00 260.00	170.00 250.00	160.00 250.00	160.00 230.00	150.00 220.00	140.00 200.00
Coil 1 P	7.985	25.068	41.906	58.645	75.242	91.811	108.144	124.467
	6.000 9.000	19.000 28.000	32.000 48.000	45.000 67.000	57.000 86.000	70.000 110.000	83.000 120.000	96.000 140.000
Coil 2 M	428.06	423.30	414.31	400.92	384.38	364.36	342.33	317.09
	360.00 540.00	360.00 540.00	350.00 530.00	340.00 510.00	330.00 500.00	310.00 470.00	300.00 440.00	270.00 410.00
Coil 2 P	7.708	24.224	40.465	56.559	72.480	88.378	104.024	119.744
	6.000 9.000	19.000 29.000	32.000 48.000	45.000 67.000	58.000 87.000	71.000 110.000	84.000 130.000	96.000 140.000
Coil 3 M	701.09	692.51	676.34	652.05	621.63	584.15	542.52	494.68
	590.00 880.00	580.00 870.00	570.00 850.00	550.00 830.00	530.00 800.00	500.00 760.00	470.00 710.00	440.00 650.00
Coil 3 P	8.220	25.781	43.082	60.270	77.302	94.342	111.102	127.849
	6.000 10.000	20.000 29.000	33.000 49.000	46.000 69.000	59.000 89.000	72.000 110.000	85.000 130.000	98.000 150.000
Coil 4 M	1139.4	1125.4	1098.6	1058.9	1009.2	948.5	881.2	804.0
	900.0 1400.0	900.0 1300.0	900.0 1300.0	850.0 1300.0	800.0 1200.0	800.0 1200.0	750.0 1100.0	700.0 1000.0
Coil 4 P	8.320	26.150	43.677	61.094	78.342	95.569	112.549	129.457
	6.000 10.000	20.000 30.000	33.000 50.000	46.000 70.000	60.000 90.000	73.000 110.000	86.000 130.000	99.000 150.000
Coil 5 M	2280.9	2253.2	2199.9	2121.0	2021.2	1899.2	1764.0	1609.1
	1900.0 2800.0	1800.0 2800.0	1800.0 2700.0	1800.0 2600.0	1700.0 2500.0	1600.0 2400.0	1500.0 2200.0	1400.0 2100.0
Coil 5 P	8.495	26.622	44.486	62.238	79.832	97.404	114.755	132.060
	6.000 10.000	20.000 31.000	34.000 51.000	48.000 72.000	62.000 93.000	76.000 110.000	89.000 130.000	100.000 150.000
Coil 6 M	5914.7	5837.2	5690.9	5475.9	5212.4	4895.8	4551.8	4161.2
	4700.0 7100.0	4700.0 7000.0	4600.0 6900.0	4400.0 6800.0	4200.0 6400.0	4000.0 6000.0	3700.0 5600.0	3400.0 5100.0
Coil 6 P	8.404	26.604	44.423	62.079	79.515	96.872	113.985	130.998
	7.000 10.000	22.000 32.000	36.000 54.000	51.000 76.000	65.000 98.000	80.000 120.000	94.000 140.000	110.000 160.000

AM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	600	27	-65	-101	-121	-133	-141	-145
	-200 800	-500 200	-600 100	-600 50	-500 20	-500 20	-500 20	-500 20
Coil 0 Q	1481	597	363	240	158	97	47	3
	-3000 6000	-1000 2000	-1000 1200	-500 900	-400 700	-400 600	-400 500	-400 400
Coil 1 R	547	84	23	2	-9	-15	-19	-22
	450 650	20 130	-30 60	-50 40	-55 30	-60 20	-60 10	-60 10
Coil 1 Q	997	412	260	188	144	115	94	77
	0 2500	0 900	0 600	0 450	0 350	0 300	0 250	0 250
Coil 2 R	189.7	30.7	9.7	2.7	-0.9	-2.9	-4.3	-5.2
	140.0 230.0	0.0 51.0	-10.0 25.0	-15.0 15.0	-16.0 10.0	-16.0 7.0	-16.0 5.0	-16.0 3.0
Coil 2 Q	368.0	153.4	99.4	75.1	61.6	53.3	47.8	43.6
	-200.0 1000.0	0.0 350.0	0.0 220.0	0.0 160.0	0.0 130.0	0.0 110.0	0.0 100.0	0.0 90.0
Coil 3 R	47.0	6.3	1.3	-0.1	-0.7	-1.3	-2.0	-2.3
	37.0 62.0	0.0 12.0	-3.0 6.0	-4.0 4.0	-5.0 2.0	-5.0 1.0	-6.0 1.0	-6.0 1.0
Coil 3 Q	99.1	42.2	29.9	25.5	24.1	24.1	24.6	24.6
	-140.0 280.0	-40.0 100.0	-20.0 70.0	-10.0 60.0	-10.0 50.0	-10.0 50.0	-10.0 50.0	-10.0 50.0
Coil 4 R	12.43	1.43	-0.00	-0.47	-0.62	-0.92	-1.00	-1.06
	2.00 18.00	-3.00 6.00	-3.50 3.00	-3.90 2.00	-4.20 2.00	-4.50 2.00	-4.70 2.00	-5.00 2.00
Coil 4 Q	23.66	12.96	12.01	12.74	14.15	15.89	17.78	19.83
	-100.00 100.00	-30.00 50.00	-20.00 40.00	-10.00 40.00	-10.00 40.00	-10.00 45.00	-10.00 50.00	-10.00 60.00
Coil 5 R	2.92	0.03	-0.44	-0.62	-0.74	-0.75	-0.85	-0.88
	-2.00 5.80	-3.20 2.40	-4.50 3.10	-4.70 3.20	-4.80 3.20	-5.00 3.30	-5.20 3.40	-5.40 3.50
Coil 5 Q	5.83	5.45	7.12	8.95	10.87	12.93	15.10	17.29
	-60.00 70.00	-20.00 30.00	-20.00 30.00	-20.00 35.00	-20.00 45.00	-20.00 50.00	-20.00 60.00	-30.00 70.00

Coil 6 R	-0.52		-0.24		-0.20		-0.24		-0.30		-0.38		-0.27		-0.37	
	-4.80	1.00	-5.70	3.80	-6.50	4.90	-6.90	5.40	-7.30	5.80	-7.50	6.00	-7.70	6.10	-7.90	6.30
Coil 6 Q	-3.40		1.77		4.57		7.05		9.46		11.79		13.90		16.31	
	-30.00	30.00	-20.00	25.00	-20.00	35.00	-30.00	50.00	-35.00	60.00	-40.00	70.00	-50.00	80.00	-60.00	100.00
MM Factor	10 KHz		30 KHz		50 KHz		70 KHz		90 KHz		110 KHz		130 KHz		150 KHz	
Coil 0 M	1.021		1.015		1.009		1.006		1.005		1.003		1.003		1.003	
	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 0 P	0.264		0.489		0.568		0.492		0.446		0.390		0.336		0.258	
	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000
Coil 1 M	0.997		0.991		0.986		0.984		0.982		0.981		0.980		0.980	
	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 1 P	0.246		0.457		0.493		0.473		0.408		0.310		0.254		0.205	
	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000
Coil 2 M	1.003		0.999		0.999		0.997		0.997		0.996		0.996		0.995	
	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 2 P	0.076		0.092		0.138		0.177		0.214		0.214		0.165		0.203	
	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000
Coil 3 M	1.014		1.013		1.012		1.011		1.011		1.010		1.012		1.012	
	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 3 P	0.065		0.068		0.116		0.134		0.134		0.103		0.043		0.155	
	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000
Coil 4 M	1.029		1.028		1.027		1.027		1.027		1.027		1.027		1.026	
	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 4 P	0.060		0.075		0.063		0.108		0.104		0.105		0.076		0.037	
	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000
Coil 5 M	1.024		1.024		1.025		1.024		1.024		1.025		1.025		1.025	
	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 5 P	0.028		-0.063		-0.025		-0.018		-0.065		-0.138		-0.104		-0.121	
	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000
Coil 6 M	1.021		1.023		1.023		1.023		1.025		1.031		1.034		1.034	
	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 6 P	-0.033		-0.026		-0.155		-0.101		-0.267		-0.365		-0.354		-0.508	
	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000

PARMS	TCID 0	TCID 1	Cal Temp (degF)	T Factor
IDs	1.414	0.852	87.5	1.04

HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL #:	1515MA 179553	DATE/TIME PERFORMED:	Sun Dec 15 05:45:24 2019	DAYS SINCE CAL:	34
UNIT #:	3882TD HL6728				

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-0.004		0.002		0.003		-0.000	
	-0.200	0.200	-0.100	0.100	-0.100	0.100	-0.100	0.100
Coil 0 Q	0.008		0.013		0.003		0.002	
	-1.000	1.000	-0.200	0.200	-0.100	0.100	-0.100	0.100
Coil 1 R	0.002		0.002		-0.001		-0.003	
	-0.200	0.200	-0.100	0.100	-0.100	0.100	-0.100	0.100

Coil 1 Q	0.004	0.009	0.005	0.004	0.004	0.002	-0.002	-0.003
	-1.000 1.000	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 2 R	0.007	0.005	0.000	0.003	0.002	0.002	0.004	0.008
	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 2 Q	-0.005	-0.004	-0.002	-0.001	-0.005	-0.004	-0.004	-0.003
	-1.000 1.000	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 3 R	0.008	0.004	0.002	0.004	0.005	0.003	0.001	0.002
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 3 Q	-0.008	-0.012	-0.007	-0.000	-0.000	0.001	0.002	0.003
	-0.500 0.500	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 4 R	-0.005	0.004	-0.003	-0.007	-0.007	-0.001	-0.000	-0.002
	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200
Coil 4 Q	-0.011	0.005	0.005	-0.000	0.002	-0.002	-0.005	-0.003
	-1.000 1.000	-0.400 0.400	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200
Coil 5 R	-0.006	0.008	0.011	0.006	0.007	0.002	0.001	-0.001
	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400
Coil 5 Q	-0.003	-0.003	0.001	0.010	0.009	0.003	0.004	-0.003
	-2.000 2.000	-0.800 0.800	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400
Coil 6 R	-0.021	0.006	-0.010	0.025	-0.003	-0.000	-0.024	0.026
	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000
Coil 6 Q	0.009	-0.012	-0.002	0.000	-0.004	-0.030	-0.022	0.013
	-5.000 5.000	-2.000 2.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	125.58	123.99	120.94	116.53	110.90	104.22	96.67	88.28
	100.00 150.00	100.00 150.00	98.00 150.00	96.00 140.00	92.00 140.00	87.00 130.00	82.00 120.00	76.00 110.00
Coil 0 P	8.056	25.246	42.140	58.887	75.474	91.959	108.287	124.358
	6.000 9.000	19.000 28.000	32.000 47.000	44.000 66.000	57.000 85.000	70.000 100.000	82.000 120.000	95.000 140.000
Coil 1 M	216.29	213.67	208.62	201.40	192.07	180.88	168.05	153.81
	180.00 270.00	180.00 270.00	170.00 260.00	170.00 250.00	160.00 250.00	160.00 230.00	150.00 220.00	140.00 200.00
Coil 1 P	8.015	25.115	41.955	58.675	75.266	91.770	108.122	124.280
	6.000 9.000	19.000 28.000	32.000 48.000	45.000 67.000	57.000 86.000	70.000 110.000	83.000 120.000	96.000 140.000
Coil 2 M	427.10	422.03	412.65	399.44	382.62	363.13	340.92	316.48
	360.00 540.00	360.00 540.00	350.00 530.00	340.00 510.00	330.00 500.00	310.00 470.00	300.00 440.00	270.00 410.00
Coil 2 P	7.751	24.276	40.501	56.560	72.445	88.259	103.921	119.501
	6.000 9.000	19.000 29.000	32.000 48.000	45.000 67.000	58.000 87.000	71.000 110.000	84.000 130.000	96.000 140.000
Coil 3 M	699.15	690.25	673.47	649.56	618.58	581.94	539.95	493.19
	590.00 880.00	580.00 870.00	570.00 850.00	550.00 830.00	530.00 800.00	500.00 760.00	470.00 710.00	440.00 650.00
Coil 3 P	8.258	25.830	43.127	60.298	77.318	94.286	111.056	127.663
	6.000 10.000	20.000 29.000	33.000 49.000	46.000 69.000	59.000 89.000	72.000 110.000	85.000 130.000	98.000 150.000
Coil 4 M	1138.1	1123.3	1095.5	1056.4	1006.1	946.7	879.0	804.1
	900.0 1400.0	900.0 1300.0	900.0 1300.0	850.0 1300.0	800.0 1200.0	800.0 1200.0	750.0 1100.0	700.0 1000.0
Coil 4 P	8.361	26.190	43.693	61.073	78.279	95.416	112.387	129.175
	6.000 10.000	20.000 30.000	33.000 50.000	46.000 70.000	60.000 90.000	73.000 110.000	86.000 130.000	99.000 150.000
Coil 5 M	2274.4	2244.3	2188.1	2108.9	2007.2	1886.7	1749.8	1597.8
	1900.0 2800.0	1800.0 2800.0	1800.0 2700.0	1800.0 2600.0	1700.0 2500.0	1600.0 2400.0	1500.0 2200.0	1400.0 2100.0
Coil 5 P	8.575	26.760	44.653	62.412	80.001	97.529	114.879	132.057
	6.000 10.000	20.000 31.000	34.000 51.000	48.000 72.000	62.000 93.000	76.000 110.000	89.000 130.000	100.000 150.000
Coil 6 M	5902.2	5813.6	5655.2	5439.3	5167.9	4854.4	4507.2	4127.5
	4700.0 7100.0	4700.0 7000.0	4600.0 6900.0	4400.0 6600.0	4200.0 6400.0	4000.0 6000.0	3700.0 5600.0	3400.0 5100.0
Coil 6 P	8.531	26.811	44.664	62.298	79.707	96.978	114.099	130.956
	7.000 10.000	22.000 32.000	36.000 54.000	51.000 76.000	65.000 98.000	80.000 120.000	94.000 140.000	110.000 160.000

TOOL #: 1515MA 179553

DATE/TIME PERFORMED: Sun Dec 15 10:47:05 2019

DAYS SINCE CAL: 34

UNIT #: 3882TD HL6728

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.005 -0.084 0.076	0.008 -0.058 0.062	0.009 -0.027 0.033	0.013 -0.030 0.030	0.003 -0.032 0.028	0.004 -0.030 0.030	0.004 -0.030 0.030	0.003 -0.033 0.027
Coil 0 Q	0.007 -0.032 0.048	0.012 -0.107 0.133	0.004 -0.027 0.033	0.010 -0.028 0.032	0.005 -0.026 0.034	0.002 -0.028 0.032	0.000 -0.030 0.030	0.001 -0.028 0.032
Coil 1 R	0.009 -0.078 0.082	0.006 -0.048 0.052	0.002 -0.031 0.029	0.006 -0.033 0.027	-0.002 -0.037 0.023	-0.004 -0.035 0.025	-0.005 -0.035 0.025	-0.005 -0.036 0.024
Coil 1 Q	0.003 -0.396 0.404	0.010 -0.091 0.109	0.006 -0.025 0.035	0.009 -0.026 0.034	0.005 -0.026 0.034	0.002 -0.028 0.032	-0.000 -0.032 0.028	-0.003 -0.033 0.027
Coil 2 R	0.009 -0.063 0.077	0.007 -0.025 0.035	0.004 -0.030 0.030	0.014 -0.027 0.033	0.006 -0.028 0.032	0.007 -0.028 0.032	0.008 -0.026 0.034	0.011 -0.022 0.038
Coil 2 Q	-0.006 -0.355 0.345	-0.006 -0.104 0.086	0.000 -0.032 0.028	0.005 -0.031 0.029	0.000 -0.035 0.025	-0.003 -0.034 0.026	-0.004 -0.034 0.026	-0.003 -0.033 0.027
Coil 3 R	0.012 -0.032 0.048	0.007 -0.036 0.044	0.011 -0.038 0.042	0.018 -0.036 0.044	0.011 -0.035 0.045	0.010 -0.037 0.043	0.008 -0.039 0.041	0.007 -0.038 0.042
Coil 3 Q	-0.008 -0.208 0.192	-0.008 -0.092 0.068	-0.003 -0.047 0.033	0.008 -0.040 0.040	-0.000 -0.040 0.040	0.001 -0.039 0.041	0.004 -0.038 0.042	0.002 -0.037 0.043
Coil 4 R	-0.004 -0.065 0.055	0.010 -0.056 0.064	-0.001 -0.063 0.057	0.014 -0.067 0.053	-0.005 -0.067 0.053	0.000 -0.061 0.059	0.002 -0.060 0.060	-0.002 -0.062 0.058
Coil 4 Q	-0.016 -0.311 0.289	0.005 -0.095 0.105	0.003 -0.055 0.065	0.002 -0.060 0.060	0.001 -0.058 0.062	-0.005 -0.062 0.058	-0.002 -0.065 0.055	-0.001 -0.063 0.057
Coil 5 R	0.005 -0.126 0.114	0.011 -0.112 0.128	0.019 -0.109 0.131	0.017 -0.114 0.126	0.013 -0.113 0.127	0.010 -0.118 0.122	0.008 -0.119 0.121	0.008 -0.121 0.119
Coil 5 Q	-0.002 -0.603 0.597	0.004 -0.253 0.247	-0.005 -0.119 0.121	0.007 -0.110 0.130	0.002 -0.111 0.129	0.009 -0.117 0.123	0.001 -0.116 0.124	0.005 -0.123 0.117
Coil 6 R	0.003 -0.321 0.279	0.004 -0.294 0.306	0.002 -0.310 0.290	-0.026 -0.275 0.325	-0.015 -0.303 0.297	0.020 -0.300 0.300	0.031 -0.324 0.276	0.024 -0.274 0.326
Coil 6 Q	0.020 -1.491 1.509	-0.006 -0.612 0.588	0.003 -0.302 0.298	-0.029 -0.300 0.300	-0.008 -0.304 0.296	-0.022 -0.330 0.270	-0.002 -0.322 0.278	-0.022 -0.287 0.313

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	125.64 123.07 128.10	124.04 121.51 126.47	121.08 118.52 123.36	116.51 114.20 118.86	110.92 108.68 113.12	103.95 102.14 106.30	96.42 94.74 98.60	87.65 86.52 90.05
Coil 0 P	8.057 5.056 11.056	25.274 22.246 28.246	42.208 38.140 45.140	59.015 55.887 61.887	75.654 72.474 78.474	92.264 88.959 94.959	108.556 105.287 111.287	124.791 121.358 127.358
Coil 1 M	216.57 211.96 220.61	213.98 209.40 217.94	209.07 204.45 212.79	201.54 197.37 205.43	192.22 188.23 195.91	180.53 177.26 184.49	167.67 164.69 171.42	152.78 150.73 156.88
Coil 1 P	8.012 5.015 11.015	25.142 22.115 28.115	42.034 38.955 44.955	58.816 55.675 61.675	75.463 72.266 78.266	92.078 88.770 94.770	108.425 105.122 111.122	124.726 121.280 127.280
Coil 2 M	427.81 418.56 435.64	422.70 413.59 430.47	413.49 404.39 420.90	399.58 391.45 407.43	382.85 374.96 390.27	362.32 355.87 370.40	340.01 334.10 347.73	314.18 310.15 322.81
Coil 2 P	7.762 4.751 10.751	24.333 21.276 27.276	40.616 37.501 43.501	56.745 53.580 59.580	72.689 69.445 75.445	88.603 85.259 91.259	104.258 100.921 106.921	119.952 116.501 122.501
Coil 3 M	700.98 685.17 713.13	691.98 676.44 704.05	675.52 660.00 686.94	650.55 636.57 662.55	619.73 606.21 630.95	581.40 570.30 593.58	539.45 529.15 550.75	490.64 483.33 503.06
Coil 3 P	8.269 5.258 11.258	25.885 22.830 28.830	43.229 40.127 46.127	60.469 57.298 63.298	77.539 74.318 80.318	94.617 91.286 97.286	111.383 108.056 114.056	128.121 124.663 130.663
Coil 4 M	1138.5 1115.3 1160.9	1123.5 1100.8 1145.8	1096.2 1073.6 1117.4	1055.3 1035.3 1077.5	1005.1 985.9 1026.2	942.8 927.8 965.7	875.3 861.4 896.5	796.7 788.0 820.2

Coil 4 P	8.384	26.268	43.837	61.292	78.564	95.831	112.794	129.718
	5.361 11.361	23.190 29.190	40.693 46.693	58.073 64.073	75.279 81.279	92.416 98.416	109.387 115.387	126.175 132.175
Coil 5 M	2278.4	2248.1	2193.0	2110.5	2009.2	1883.9	1746.7	1588.1
	2228.9 2319.9	2199.4 2289.2	2144.3 2231.8	2066.7 2151.0	1967.1 2047.4	1848.9 1924.4	1714.8 1784.8	1565.9 1629.8
Coil 5 P	8.580	26.795	44.723	62.534	80.158	97.781	115.125	132.401
	5.575 11.575	23.780 29.780	41.653 47.653	59.412 65.412	77.001 83.001	94.529 100.529	111.879 117.879	129.057 135.057
Coil 6 M	5908.4	5820.2	5665.3	5439.9	5169.4	4843.1	4495.7	4095.7
	5784.1 6020.2	5697.4 5929.9	5542.1 5768.3	5330.5 5548.1	5064.5 5271.2	4757.3 4951.5	4417.1 4597.4	4044.9 4210.0
Coil 6 P	8.535	26.866	44.779	62.484	79.966	97.337	114.415	131.492
	5.531 11.531	23.811 29.811	41.664 47.664	59.298 65.298	76.707 82.707	93.978 99.978	111.099 117.099	127.956 133.956

**BAKER
HUGHES**
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ECLIPS

COMPANY
WELL
FIELD
COUNTY

WOODFORD PETROLEUM
COBANK 13-18
WILDCAT
LINCOLN **STATE** **COLORADO**

FILE NO:

API NO:

05-073-06743-00

LOCATION:

645' FSL & 475' FWL
SW SW

SEC 18 **TWP** 15S **RGE** 54W

ELEVATIONS:

KB 5089 FT

DF 5087 FT

GL 5071 FT

FIELD PRINT

DATE 14-Dec-2019