



DUAL COMPENSATED Z-DENS LOG
COMPENSATED NEUTRON LOG
GAMMA RAY LOG
X-Y AXIS CALIPER LOG

Baker Atlas

FILE NO:	COMPANY	NALCOR ENERGY INC.	
API NO:	WELL	NALCOR ET AL FINNEGAN #1	
	FIELD	FINNEGAN	
	PROVINCE	NEWFOUNDLAND AND LABRADOR	
Ver. 3.87	LOCATION:	OTHER SERVICES	
LICENSE: 2010-128-04	LAT 49.920 N LONG 63.330 W	HDIL-GR-CAL XMAC-GR-3CAL STAR-GR-3CAL RCI / RCOR / VSP CVL	
PERMANENT DATUM	G.L. ELEVATION	ELEVATIONS:	
LOG MEASURED FROM	K.B. 6.25 M ABOVE P.D.	KB 125.00 M	
DRILL MEAS. FROM	KELLY BUSHING	DF	
		GL 118.75 M	
DATE	02-NOV-2010		
RUN	TRIP	1	2
SERVICE ORDER	CA208041		
DEPTH DRILLER	2285.0 M		
DEPTH LOGGER	2280.4 M		
BOTTOM LOGGED INTERVAL	2274.9 M		
TOP LOGGED INTERVAL	570.0 M		
CASING DRILLER	339.7 MM @ 570.0 M		
CASING LOGGER	570.0 M		
BIT SIZE	311.0 MM		
TYPE OF FLUID IN HOLE	GELCHEM		
DENSITY	VISCOSITY	78.0 S	
PH	FLUID LOSS	5.6 ML	
SOURCE OF SAMPLE	TOOL MEASURED		
RM AT MEAS. TEMP.	0.788 OHMM @ 39.7 DEGC		
RMF AT MEAS. TEMP.	0.669 OHMM @ 39.7 DEGC		
RMC AT MEAS. TEMP.	0.945 OHMM @ 39.7 DEGC		
SOURCE OF RMF	RMC	CALCULATED	
RM AT BHT	0.662 OHMM @ 53.3 DEGC		
TIME SINCE CIRCULATION	25.7 HOURS		
MAX. RECORDED TEMP.	53.3 DEGC		
EQUIP. NO.	LOCATION	OH NISKU	
RECORDED BY	S. CREWE		
WITNESSED BY	R. STRICKLAND/N. WATSON		

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE 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.

BOREHOLE RECORD

BIT SIZE	FROM	TO
444.5 MM	0.0 M	570.0 M
311.0 MM	570.0 M	2285.0 M

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
339.7 MM	81.1 KG/M	K-55	0.0 M	570.0 M
244.5 MM				

REMARKS

RUN 1 TRIP 2 : TIME STOPPED CIRCULATION: 02-NOV-2010 03:00 AM

SAMPLE MEASURED: RM 1.078 @ 8.3 DEG
RMF 0.916 @ 8.3 DEG
RMC 2.278 @ 8.3 DEG
CABLEHEAD THERMOMETER READINGS: 54 DEG

CNC IS AVERAGE CALIPER CORRECTED.
CNC AND PORZ RECORDED AND PRESENTED IN A SANDSTONE MATRIX 2.65G/CM3.
ALSO PRESENTED IN A LIMESTONE MATIX 2.71G/CM3.
HIGH RESOLUTION PASSES PRESENTED BELOW REPEAT PASS

RIG: STONEHAM 11

CREW:

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	2	SWIVEL	3944XB	73682	FREE
1	2	DHPA	4430XB	10152148	FREE
1	2	TTMA	3981XB	152403	FREE
1	2	COMM	3514XB	150740	FREE
1	2	WTS DGR/SIJ	1329XB	370830	FREE
1	2	WTS DBL KNJ	3939XA	10238695	FREE
1	2	ORIT	4401XB	166976	FREE
1	2	STAR II PS	1022PA	184596	FREE
1	2	F/ GOM	1036EA	10379942	FREE
1	2	STAR MANDRE	4236MA	10103666	6-PAD DEVICE
1	2	WTS ISO SUB	3992XA	176946	FREE
1	2	FOC/WTS TR	3526EB	10108224	FREE
1	2	FOC/WTS PWR	3526FB	10127059	FREE
1	2	DBL KNJT	3931XA	10334137	FREE
1	2	TTMA SUB	3980XA	10091959	FREE
1	2	FOCUS CN	2436XA	10394243	DECENTRALIZED
1	2	FOCUS ZDEN	2223XA	10116105	PAD DEVICE
1	2	DBL KNJT	3931XA	10480674	FREE
1	2	ALGNMNT SUB	4408NA	402986	FREE
1	2	FOCUS ZDEN	2223XA	10141929	PAD DEVICE
1	2	DBL KNJT	3931XA	10480675	FREE
1	2	FOCUS HDIL	1530XA	402505	STANDOFF

INSTRUMENT CONFIGURATION

Source File: /dat1a/pass/nalcor_run1/r112-tdg

CABLEHEAD

Diameter : 8.6 cm
 Length : 187.6 cm
 Weight : 10.9 kg
 Series : CABL338
 Mnemonic : CBLH

SWIVEL

Diameter : 8.6 cm
 Length : 101.6 cm
 Weight : 30.0 kg
 Series : 3944XB

DOWNHOLE POWER ADAPTER

Diameter : 9.2 cm
 Length : 160.7 cm
 Weight : 39.1 kg
 Series : 4430XB
 Mnemonic : DHPA

TTRM SUB

Diameter : 9.2 cm
 Length : 116.8 cm
 Weight : 28.2 kg
 Series : 3981XA
 Mnemonic : TTRM

WTS COMMON REMOTE

Diameter : 9.2 cm
 Length : 194.0 cm
 Weight : 57.3 kg
 Series : 3514XB
 Mnemonic : WTS



42.98 m

CABLEHEAD TOP 42.14 m

 TEMP MP 37.93 m
 RM MP 37.85 m

DIGITAL SPECTRALOG

Diameter : 9.2 cm
Length : 222.8 cm
Weight : 59.1 kg
Series : 1329XA
Mnemonic : DSL

GR MP — 33.83 m

KNUCKLE JOINT (DOUBLE)

Diameter : 8.6 cm
Length : 141.8 cm
Weight : 40.9 kg
Series : 3939XA
Mnemonic : KNJT

DIGITAL ORIENTATION

Diameter : 8.6 cm
Length : 329.4 cm
Weight : 50.0 kg
Series : 4401XB
Mnemonic : ORIT

ORIENT MP — 28.63 m

C6PC IMAGER POWER SUPPLY

Diameter : 9.2 cm
Length : 276.9 cm
Weight : 52.7 kg
Series : 1022PA
Mnemonic : C6PC

C6PC IMAGER ELECTRONICS

Diameter : 9.2 cm
Length : 276.9 cm
Weight : 42.7 kg
Series : 1036EA
Mnemonic : C6PC

C6PC IMAGER MANDREL

Diameter : 13.3 cm
Length : 381.0 cm
Weight : 126.4 kg
Series : 4236MA
Mnemonic : C6PC

PAD MP — 20.29 m

ISOLATION RETURN SUB

Diameter : 9.2 cm
Length : 63.5 cm

WTS FOCUS TELEMETRY TRANSFORMER SUB

Diameter : 9.2 cm
Length : 165.7 cm
Weight : 30.5 kg
Series : 3526FB
Mnemonic : ADAP

WTS FOCUS POWER ADAPTOR

Diameter : 9.2 cm
Length : 110.2 cm
Weight : 70.9 kg
Series : 3526FB
Mnemonic : ADAP

FOCUS KNUCKLE JOINT

Diameter : 8.0 cm

FOCUS KNUCKLE JOINT

Diameter : 8.0 cm

FOCUS TEN/TEMP/MUD RES/ACCEL

Diameter : 8.0 cm
Length : 131.4 cm
Weight : 27.7 kg
Series : 3880XA
Mnemonic : TTWA

FOCUS COMPENSATED NEUTRON

Diameter : 8.0 cm
Length : 146.7 cm
Weight : 29.5 kg
Series : 2436XA
Mnemonic : CN

FOCUS Z-DENS LOG

Diameter : 9.5 cm
Length : 292.1 cm
Weight : 90.9 kg
Series : 2223XA
Mnemonic : ZDL

FOCUS KNUCKLE JOINT

Diameter : 8.0 cm

FOCUS KNUCKLE JOINT

Diameter : 8.0 cm

FOCUS ALIGNMENT SUB

FOCUS Z-DENS LOG

Diameter : 9.5 cm
Length : 292.1 cm
Weight : 90.9 kg
Series : 2223XA
Mnemonic : ZDL

FOCUS KNUCKLE JOINT

Diameter : 8.0 cm

FOCUS KNUCKLE JOINT

Diameter : 8.0 cm

LSN MP 12.78 m
SSN MP 12.64 m

CR1 MP 10.59 m

LSD / CR2 MP 9.79 m
SSD MP 9.66 m

CR1 MP 6.45 m

LSD / CR2 MP 5.65 m
SSD MP 5.52 m

FOCUS HIGH DEFINITION INDUCTION TOOL

Diameter : 8.0 cm
Length : 406.4 cm
Weight : 52.3 kg
Series : 1530XA
Mnemonic : HDIL

COIL 5 MP 2.34 m
COIL 4 MP 1.88 m
COIL 3 MP 1.42 m
COIL 2 MP 1.27 m
COIL 1 MP 1.12 m
COIL 0 MP 0.97 m
SP MP 0.50 m
0.00 m

FOCUS PINEAPPLE / CABBAGE

TOTAL LENGTH: 42.98 m
TOTAL WEIGHT: 1076.4 kg
MAX DIAMETER: 15.6 cm

MAIN LOG - UPPER PRESENTATION

ECLIPS 6.1i Aug 06, 2010
Patches: 1

Wed Nov 3 15:36:32 2010

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.50

PARAMETER AND FILTER SUMMARY REPORT

File: /data/pass/nalcor_run1/m980g03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 542.107 m BOTTOM DEPTH: 2283.998 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
TENSION	FILTER ()	medium (1)		''	''
GR	FILTER ()	medium (1)		''	''
CALIPER	FILTER ()	medium (1)		''	''
ZDL MED RES	FILTER (hrd1*)	medium		''	''
	FILTER (hrd12*)	medium		''	''
	FILTER (hrd1s*)	medium		''	''
	FILTER (hrd1s2*)	medium		''	''
	FILTER (hrd2*)	medium		''	''
	FILTER (hrd22*)	medium		''	''
	FILTER (hrd2s*)	medium		''	''
	FILTER (hrd2s2*)	medium		''	''
	FILTER (soft*)	medium		''	''
	FILTER (soft2*)	medium		''	''

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
BIT SIZE	BIT SIZE	311.000	mm	TOP	BOTTOM

ACCELERATION PROCESSING

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

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DENSITY POROSITY	Air Filled Borehole	NO		TOP	BOTTOM

CURVE DESCRIPTION REPORT

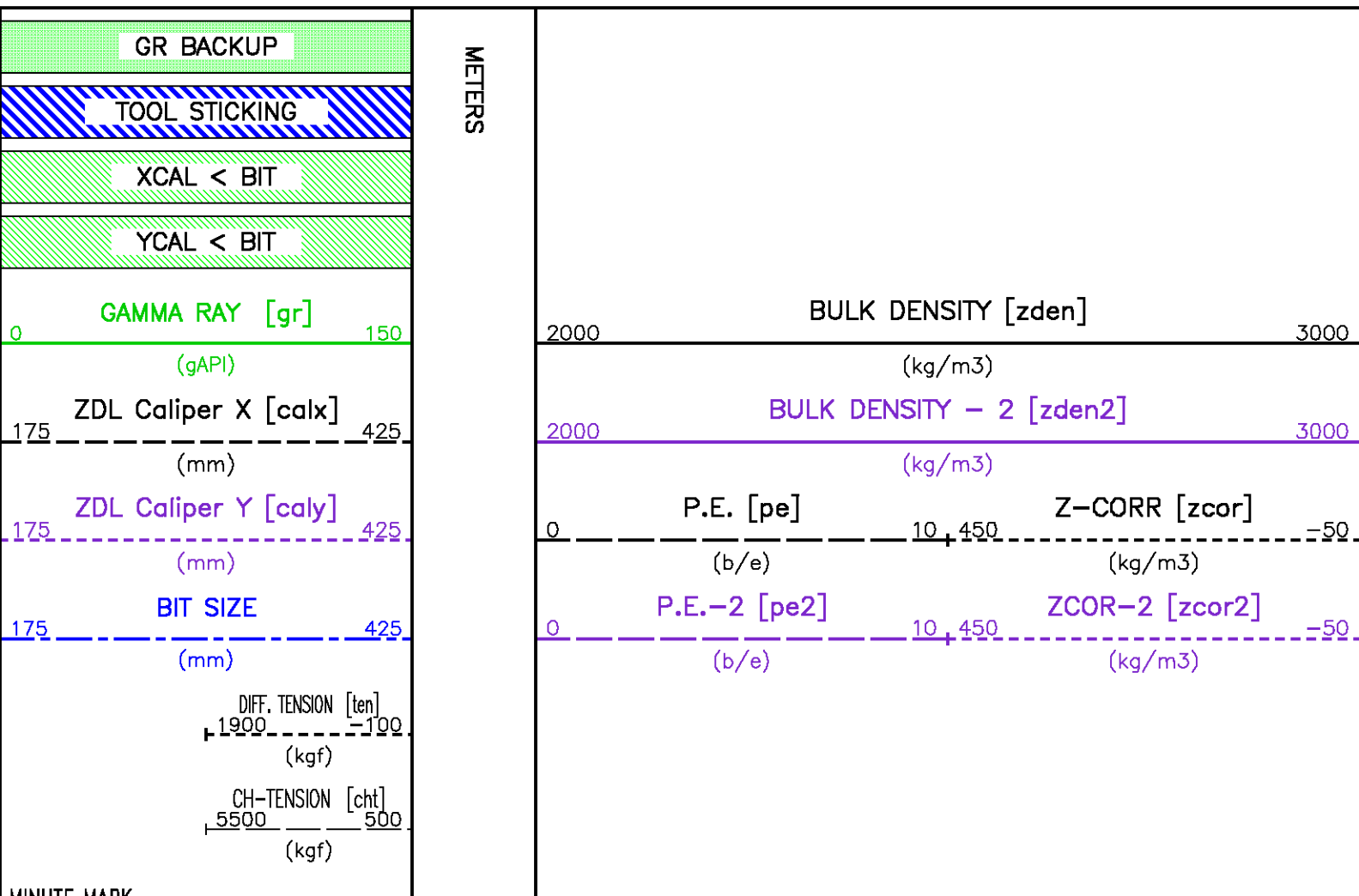
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Nov 3 01:15:13 2010	BIT SIZE
F1:CALX	Nov 3 01:15:13 2010	CALIPER FROM X-AXIS OF XY CALIPER(S)
F1:CALY	Nov 3 01:15:13 2010	CALIPER FROM Y-AXIS OF XY CALIPER(S)
F1:CHT	Nov 3 01:15:13 2010	CABLE HEAD TENSION
F1:GR	Nov 3 01:15:13 2010	GAMMA RAY
F1:MMRK	Nov 3 01:15:13 2010	MINUTE MARK
F1:PE	Nov 3 01:15:13 2010	PHOTO ELECTRIC CROSS-SECTION
F1:PE2	Nov 3 01:15:13 2010	PHOTOELECTRIC CROSS-SECTION (2ND TOOL)
F1:TEN	Nov 3 01:15:13 2010	DIFFERENTIAL TENSION
F1:ZCOR	Nov 3 01:15:13 2010	DENSITY CORRECTION
F1:ZCOR2	Nov 3 01:15:13 2010	DENSITY CORRECTION (2ND TOOL)
F1:ZDEN	Nov 3 01:15:13 2010	FORMATION BULK DENSITY
F1:ZDEN2	Nov 3 01:15:13 2010	FORMATION BULK DENSITY (2ND TOOL)

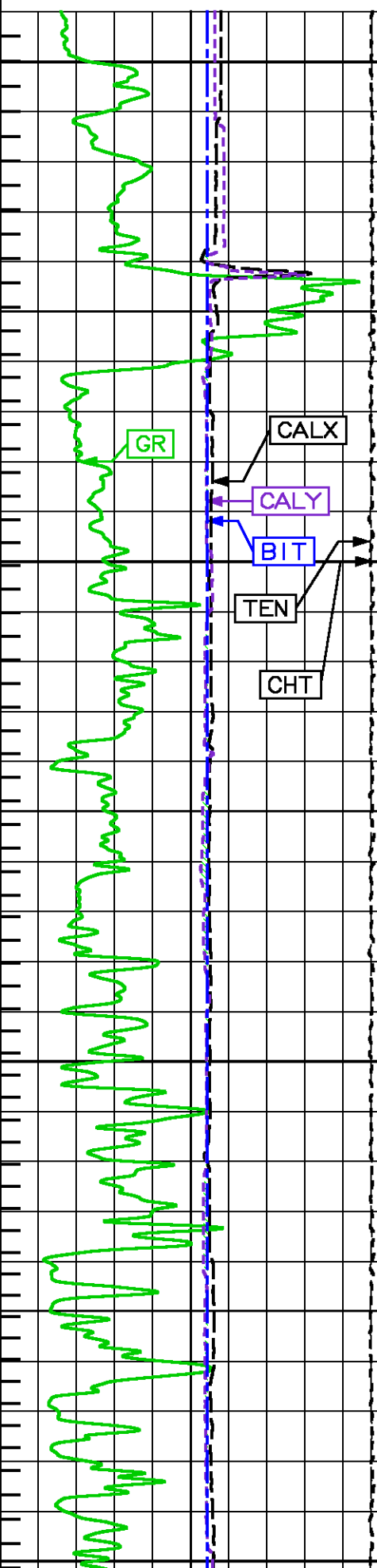
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CHT	0.00	PE2	5.49	ZCOR2	5.49
CALX	9.64	GR	33.68	TEN	0.00	ZDEN	9.64
CALY	5.49	PE	9.64	ZCOR	9.64	ZDEN2	5.49

Presentation : cpu1:/dat1a/pass/nalcor_run1/zdl2_upper.pdf [1:600 Scale]
 Plot Interval : 545 - 2300 Meters

Data File 1 : F1 : cpu1:/dat1a/pass/nalcor_run1/r1t2_main.xtf
 Created On : Nov 3 01:15:13 2010
 Company : NALCOR ENERGY
 Well : NALCOR ET AL FINNEGAN 31
 Field : FINNEGAN
 File Interval : 504.749 - 2283.98 Meters
 Oct : m980g





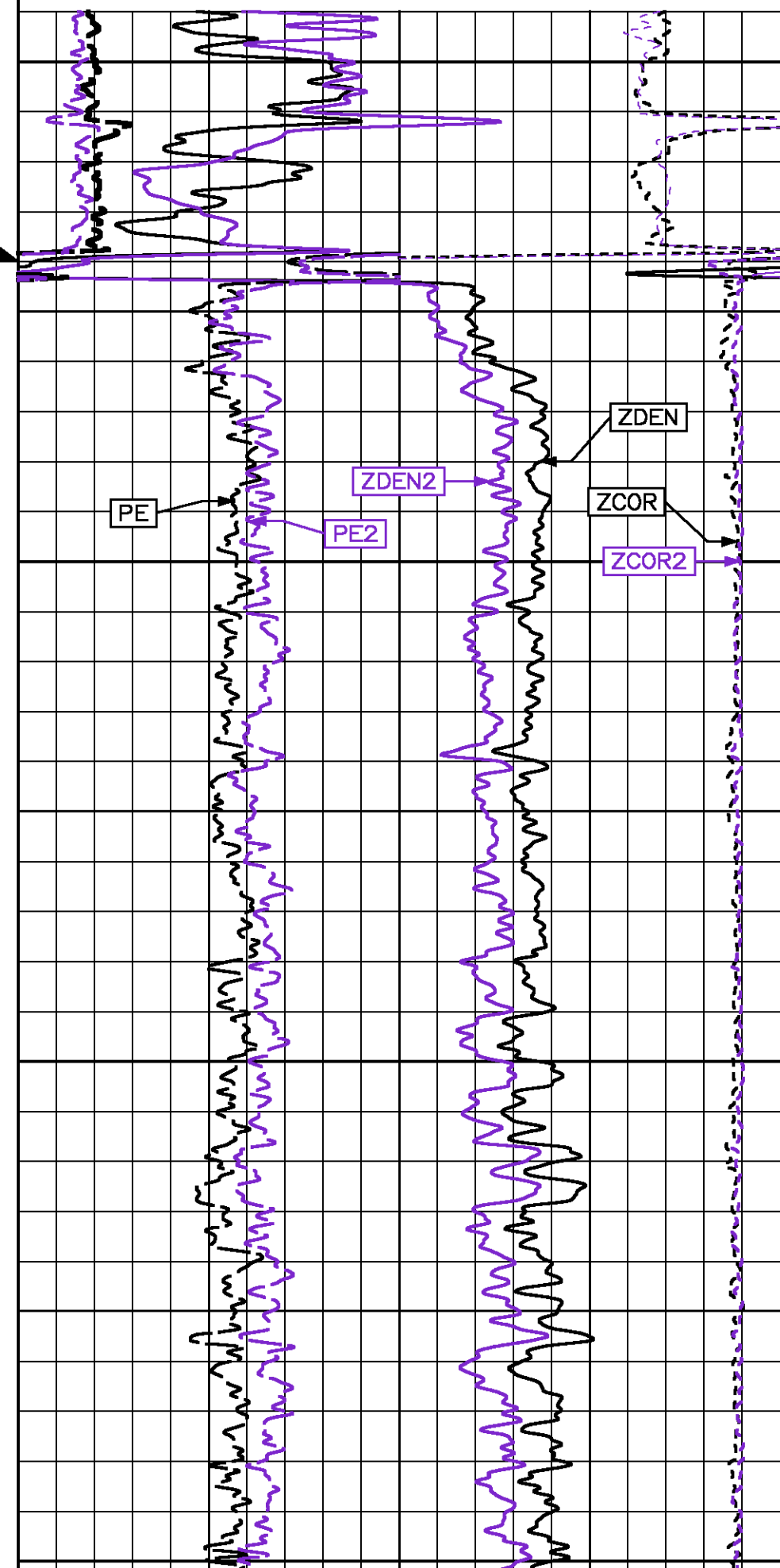
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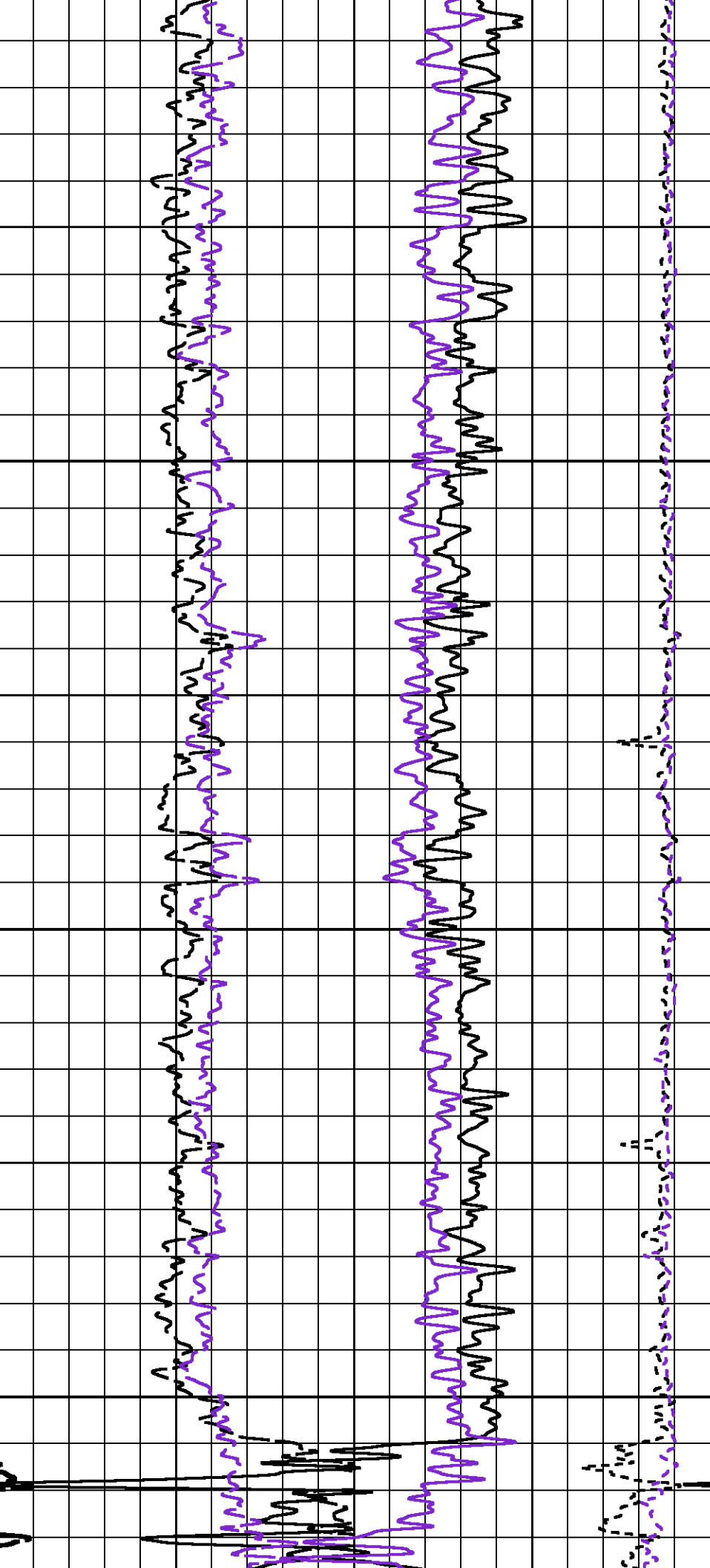
CSG

600

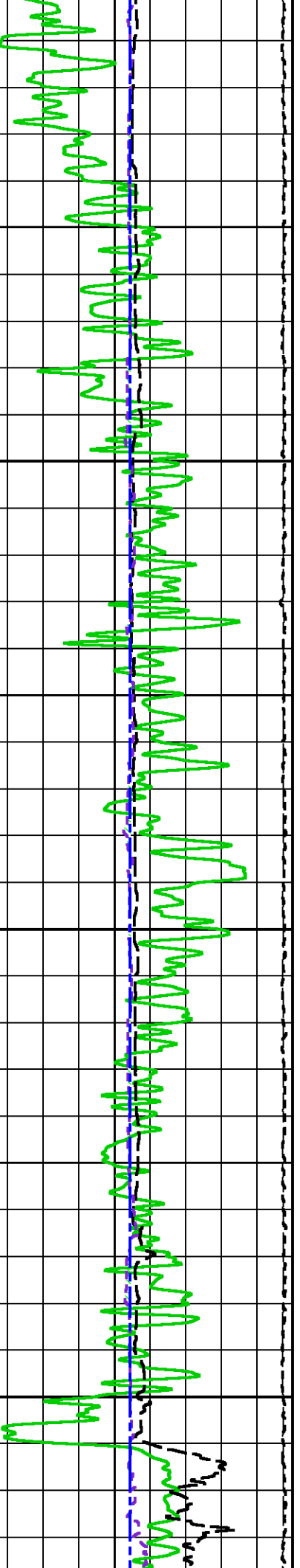
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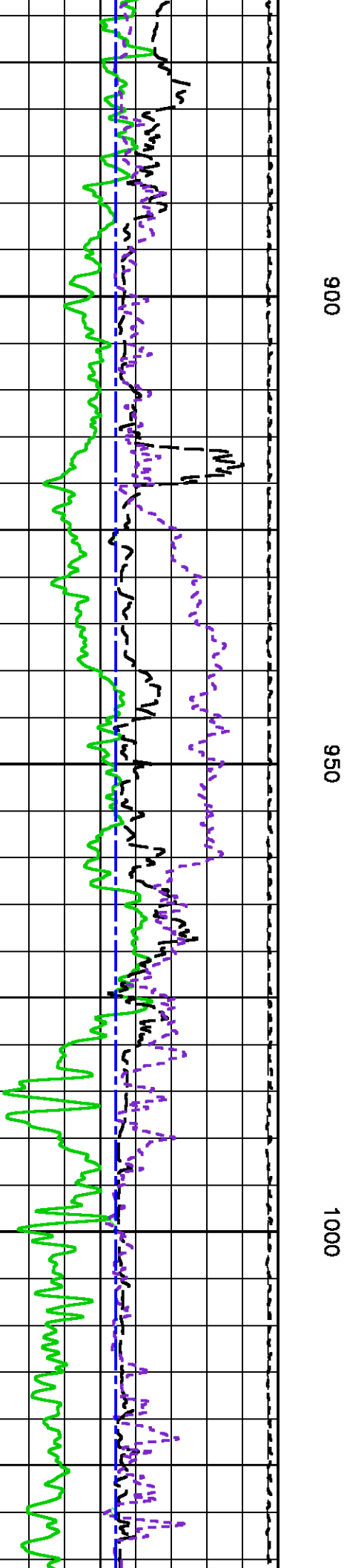
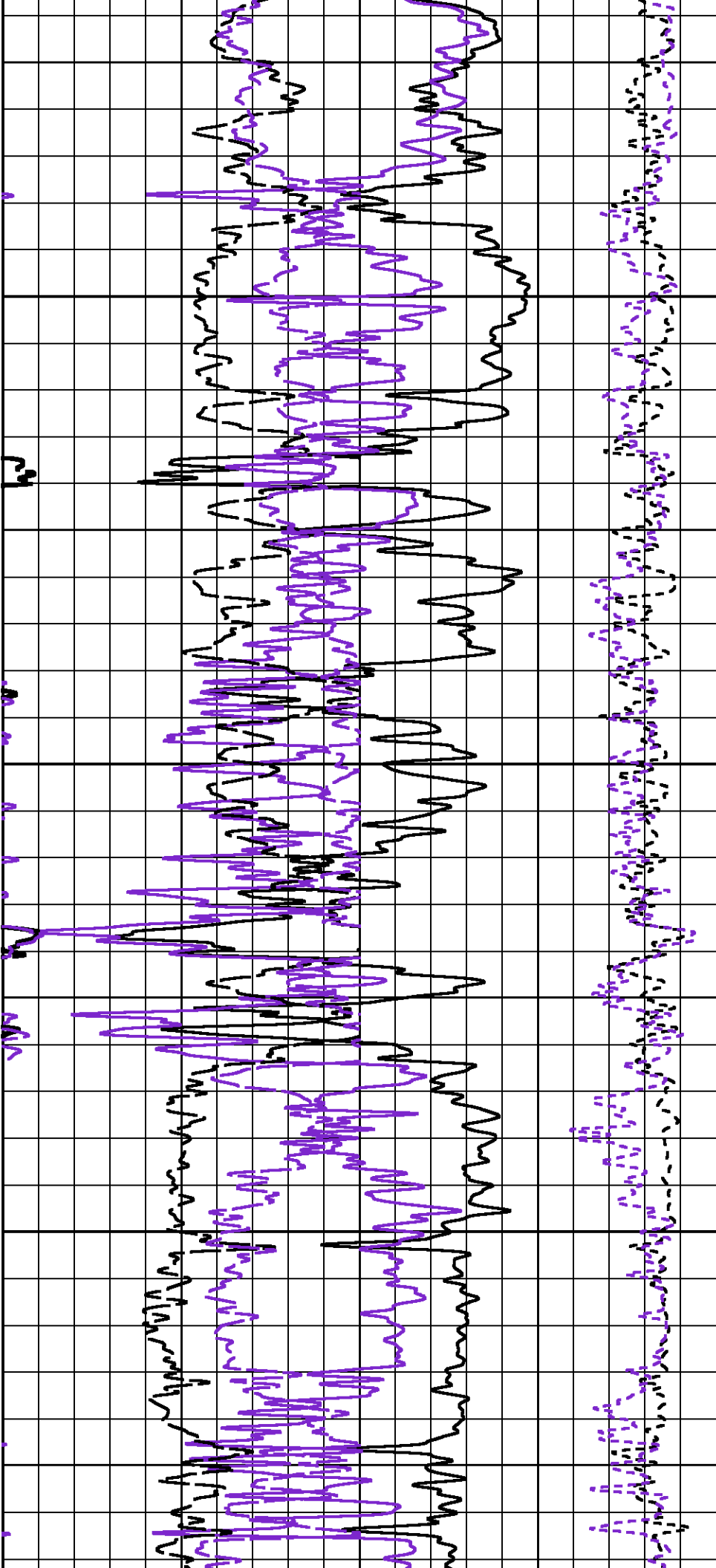
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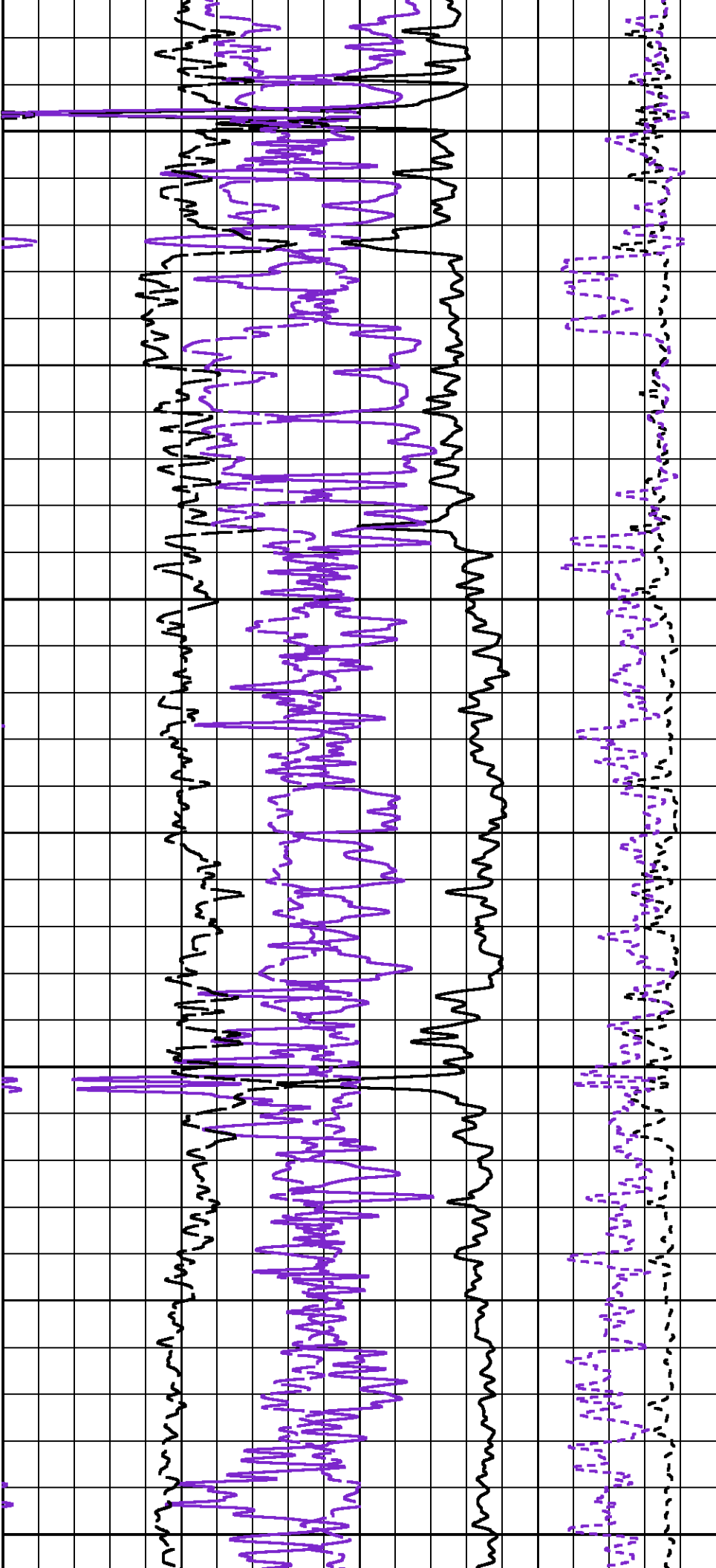




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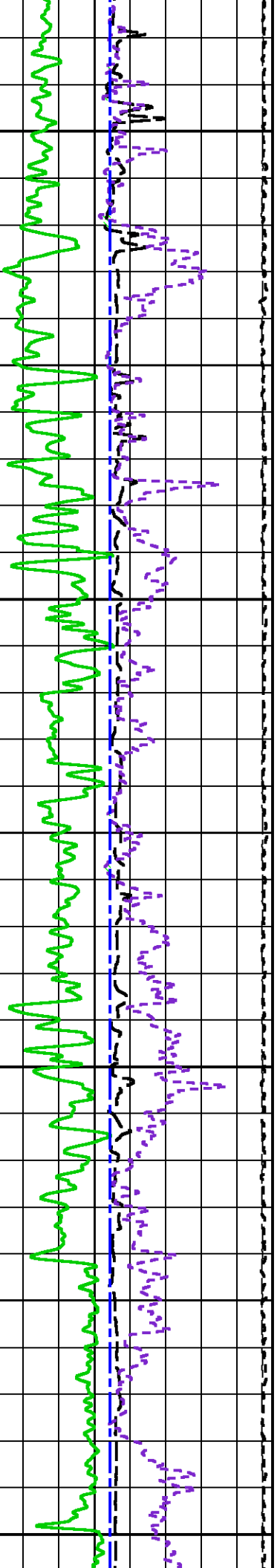


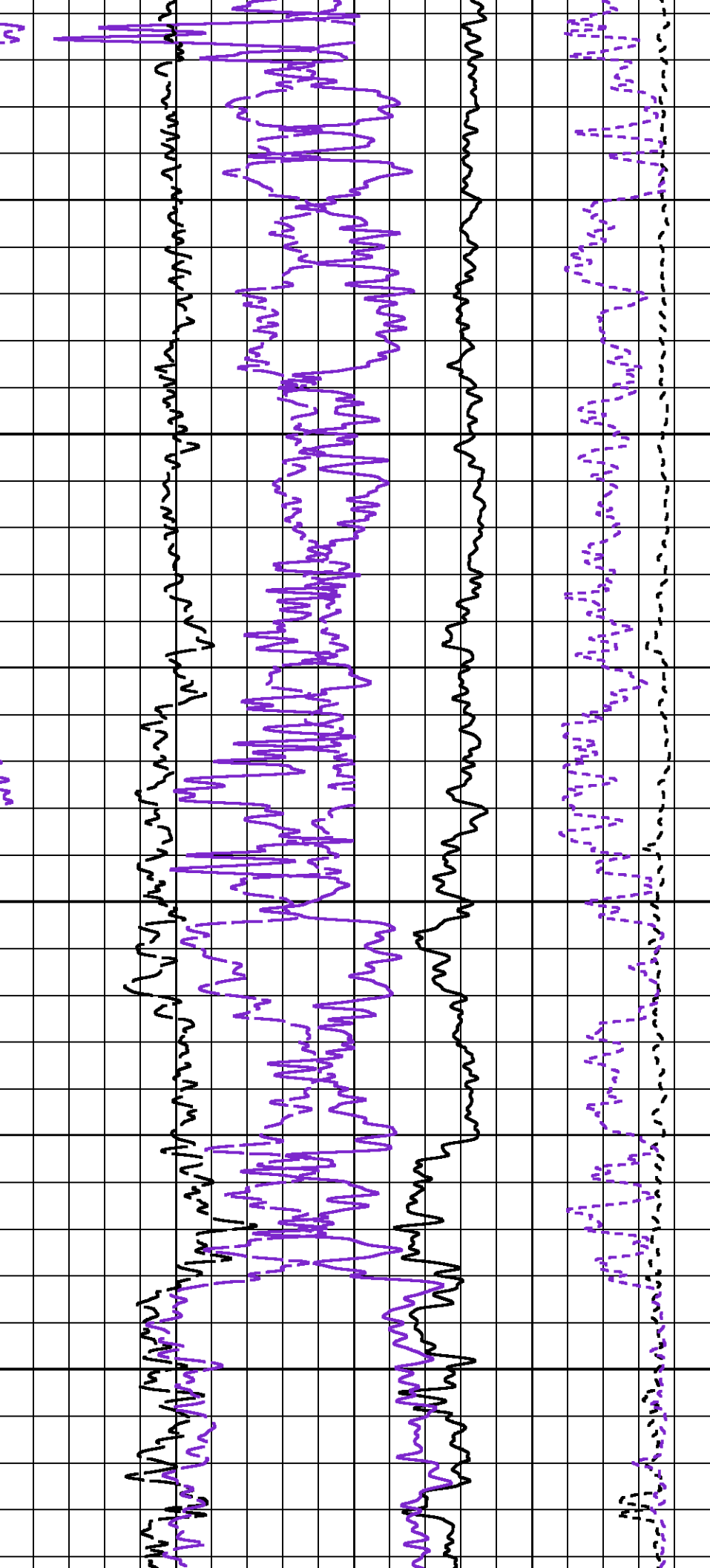
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1100

1150

1200

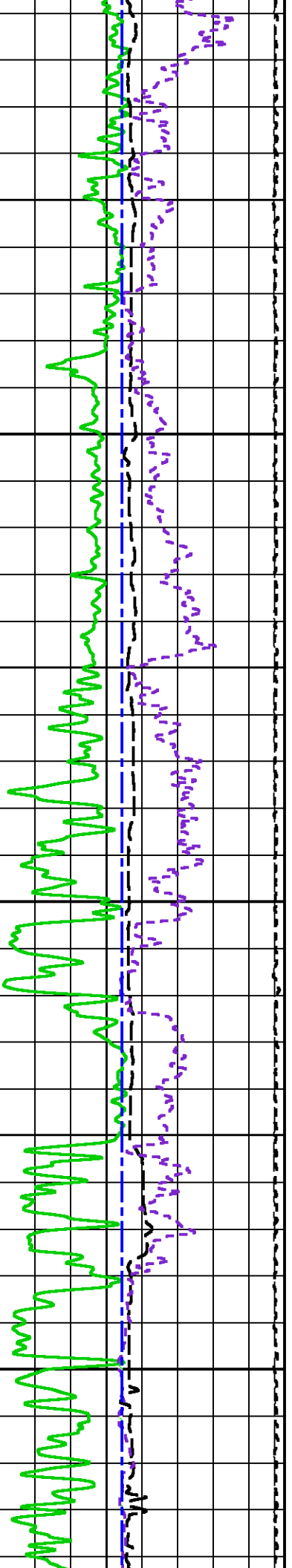


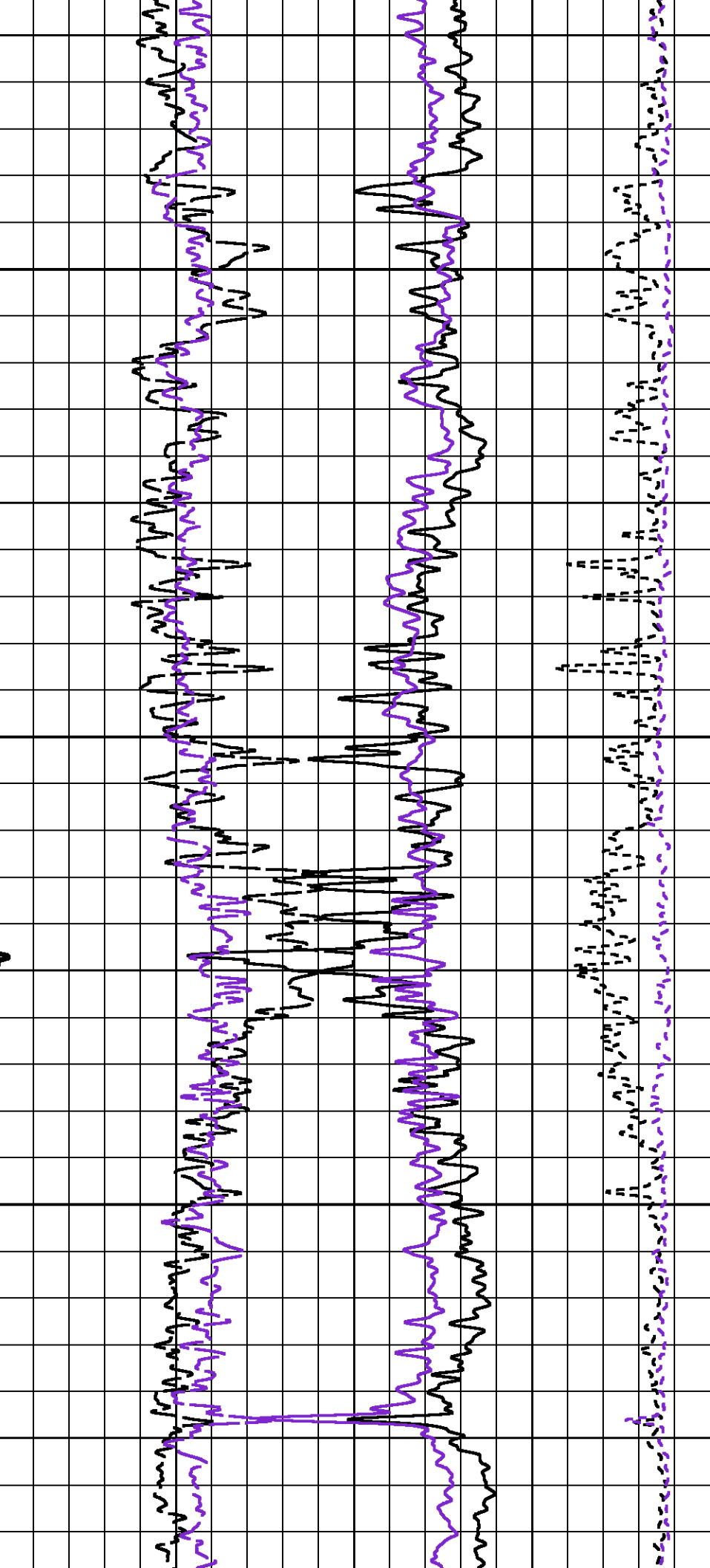


1250

1300

1350

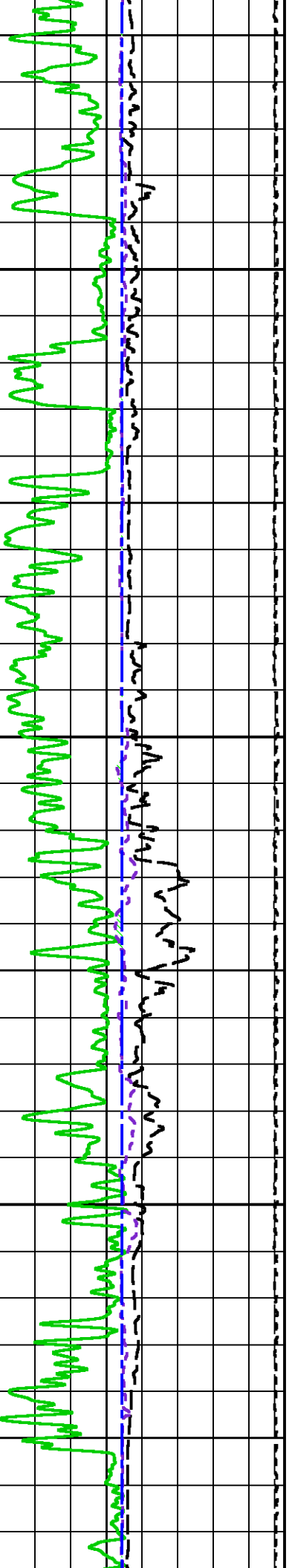


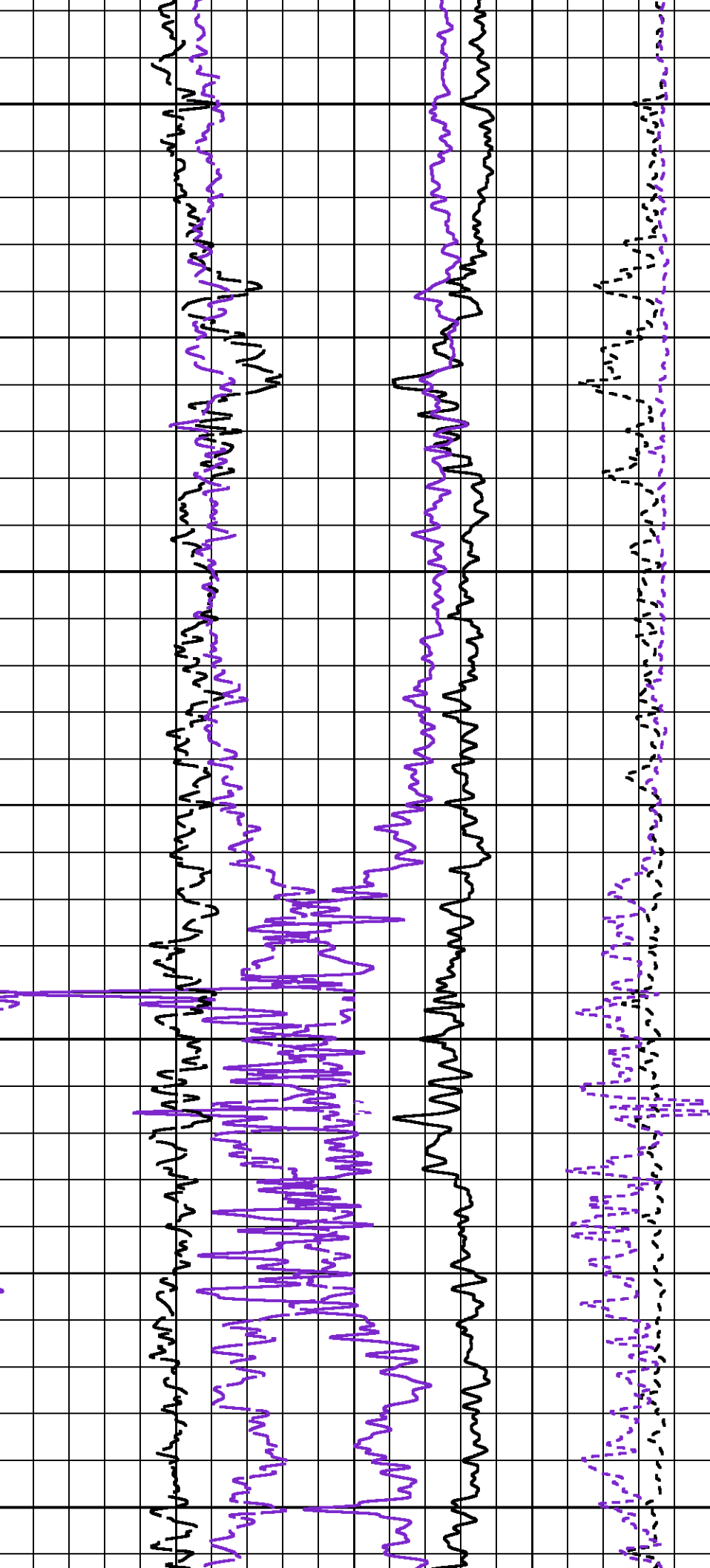


1400

1450

1500



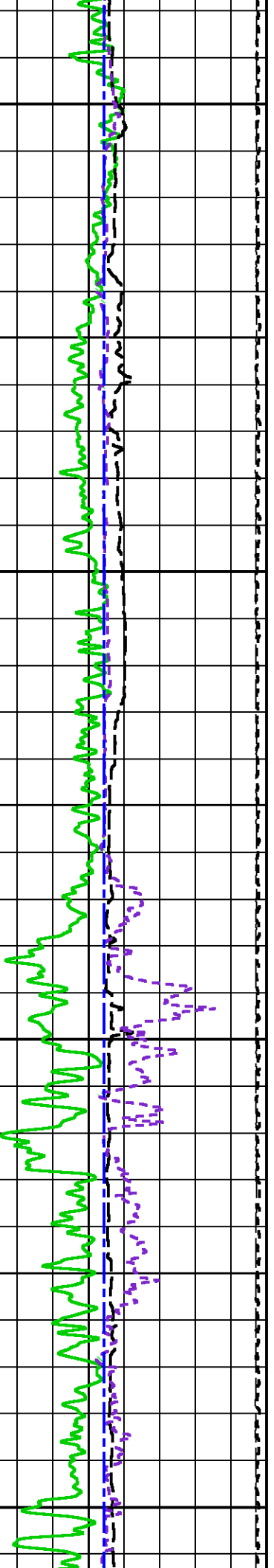


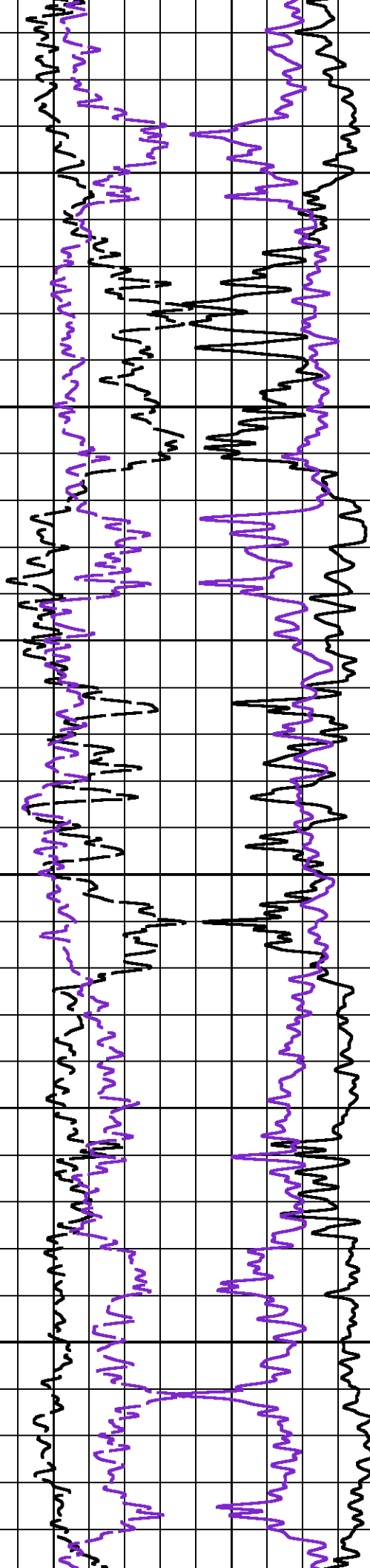
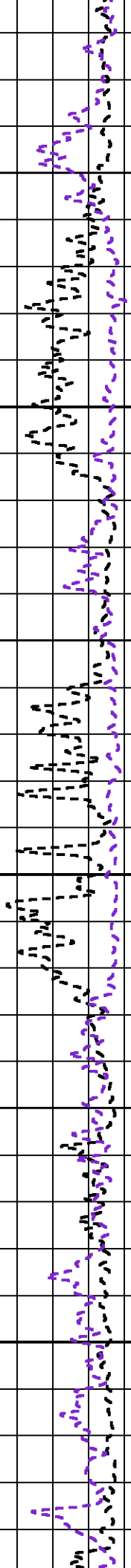
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1600

1650

1700

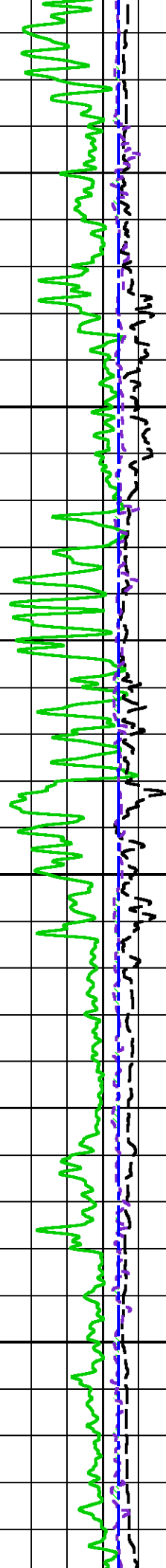


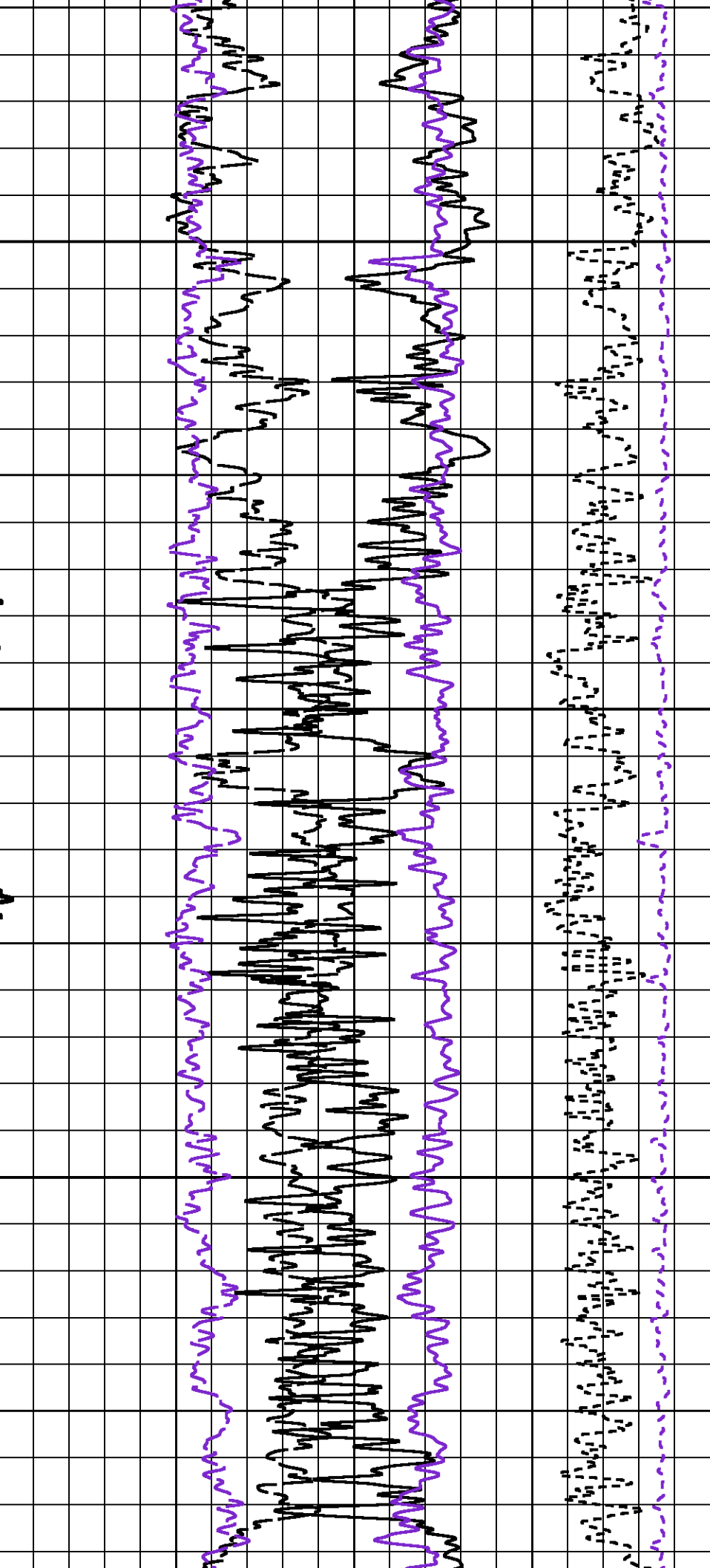


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1800

1850

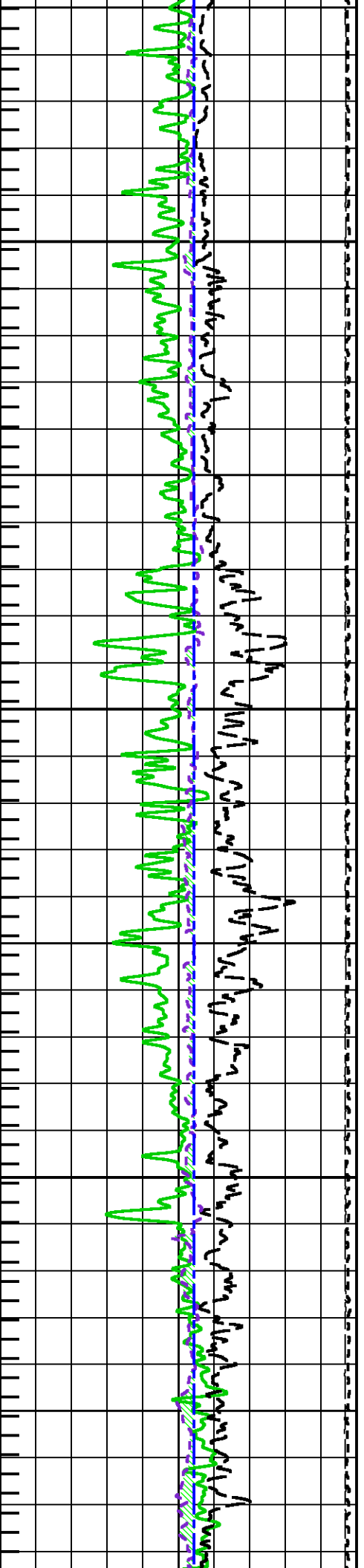


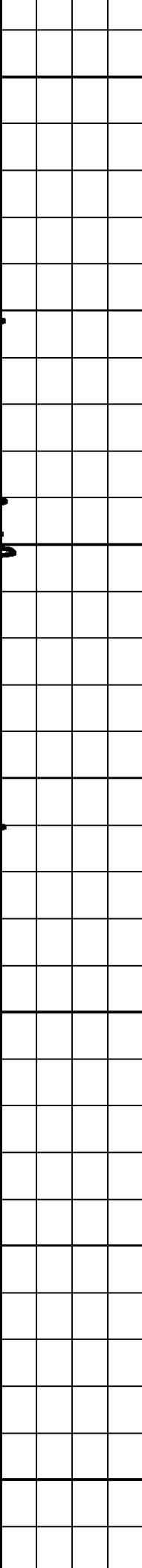
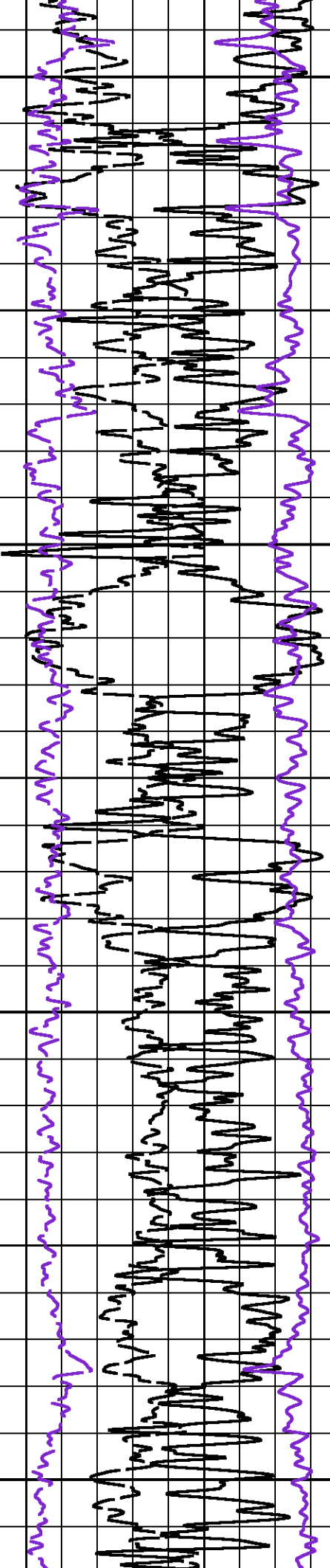
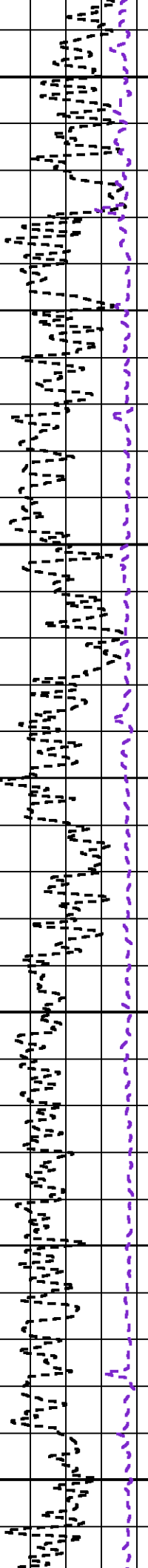


1900

1950

2000



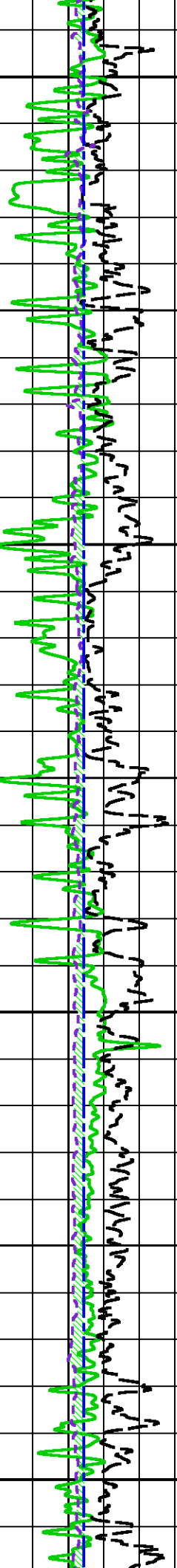


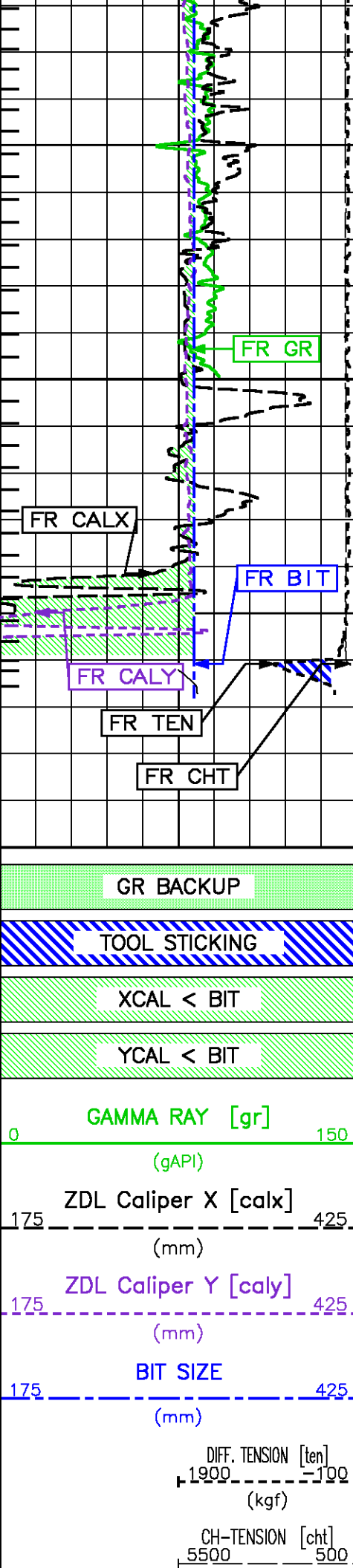
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2100

2150

2200



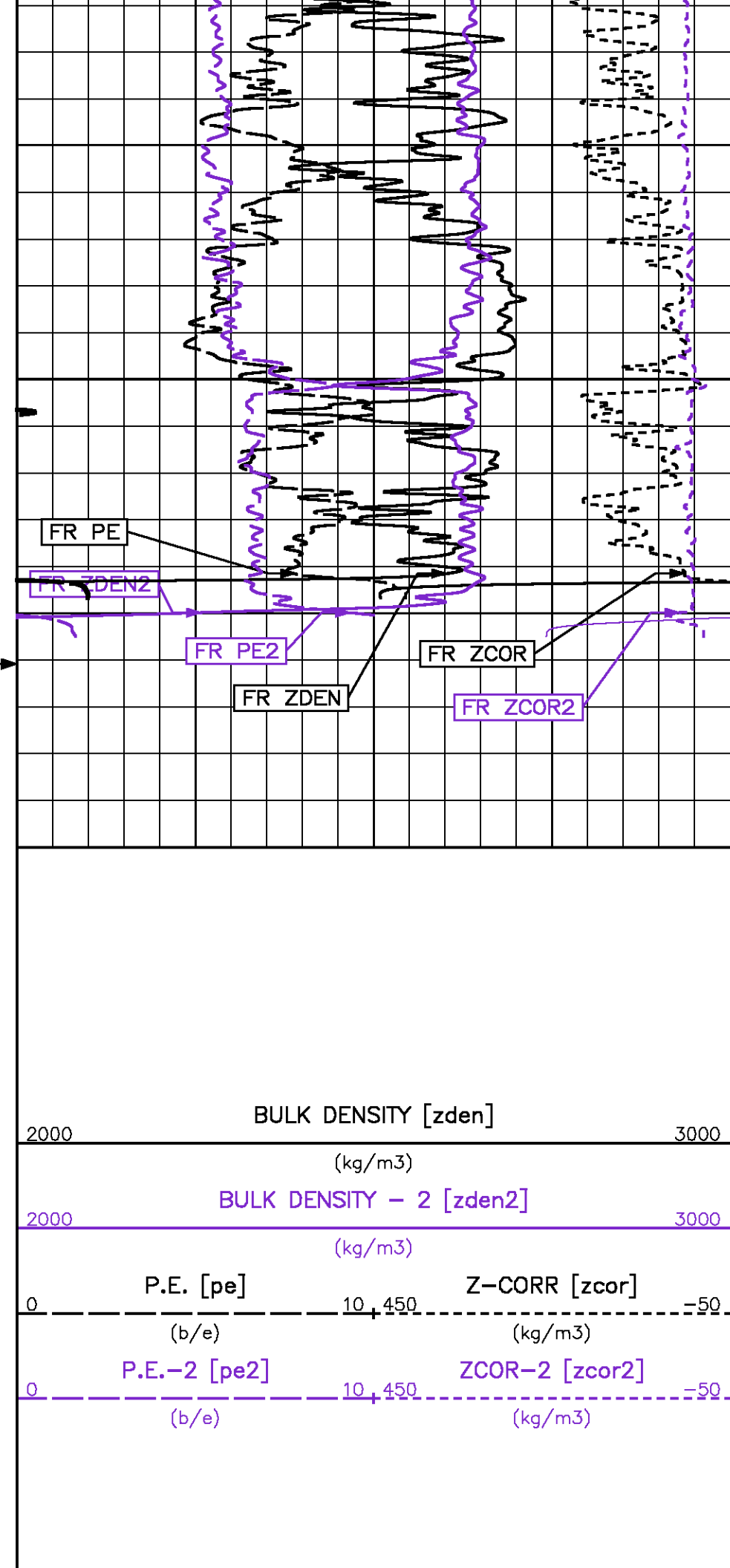


2250

2300

METERS

TD



2000

3000

2000

3000

0

10

450

-50

0

10

450

-50

(kgf)

MINUTE MARK

1

MAIN LOG - LIMESTONE MATRIX

ECLIPS 6.11 Aug 06, 2010

Wed Nov 3 15:33:07 2010

Patches: 1

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.50

PARAMETER AND FILTER SUMMARY REPORT

File: /data/pass/nalcor_run1/m980g03.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 542.107 m BOTTOM DEPTH: 2283.998 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
TENSION	FILTER ()	medium (1)		''	''
GR	FILTER ()	medium (1)		''	''
CALIPER	FILTER ()	medium (1)		''	''
CN MED RES	FILTER ()	medium (1)		''	''
ZDL MED RES	FILTER (hrd1*)	medium		''	''
	FILTER (hrd12*)	medium		''	''
	FILTER (hrd1s*)	medium		''	''
	FILTER (hrd1s2*)	medium		''	''
	FILTER (hrd2*)	medium		''	''
	FILTER (hrd22*)	medium		''	''
	FILTER (hrd2s*)	medium		''	''
	FILTER (hrd2s2*)	medium		''	''
	FILTER (soft*)	medium		''	''
	FILTER (soft2*)	medium		''	''

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	244.500	mm	TOP	BOTTOM
	CASING THICKNESS	0.000	mm	''	''
BIT SIZE	BIT SIZE	311.000	mm	''	''
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		''	''
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	311.000	mm	''	''
X-Y COMBINED CALIPER PROCESSING-FOCUS	Y-Axis			''	''

ACCELERATION PROCESSING

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

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CN BOREHOLE CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
	BOREHOLE CORRECTION	ON		''	''
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		''	''
	BIT SIZE BEHIND CSNG	444.500	mm	''	''

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DENSITY POROSITY	Air Filled Borehole	NO		TOP	BOTTOM
	RHOfluid	1.000	g/cm3	''	''
	RHOmatrix (lime)	2.710	g/cm3	''	''

CURVE DESCRIPTION REPORT

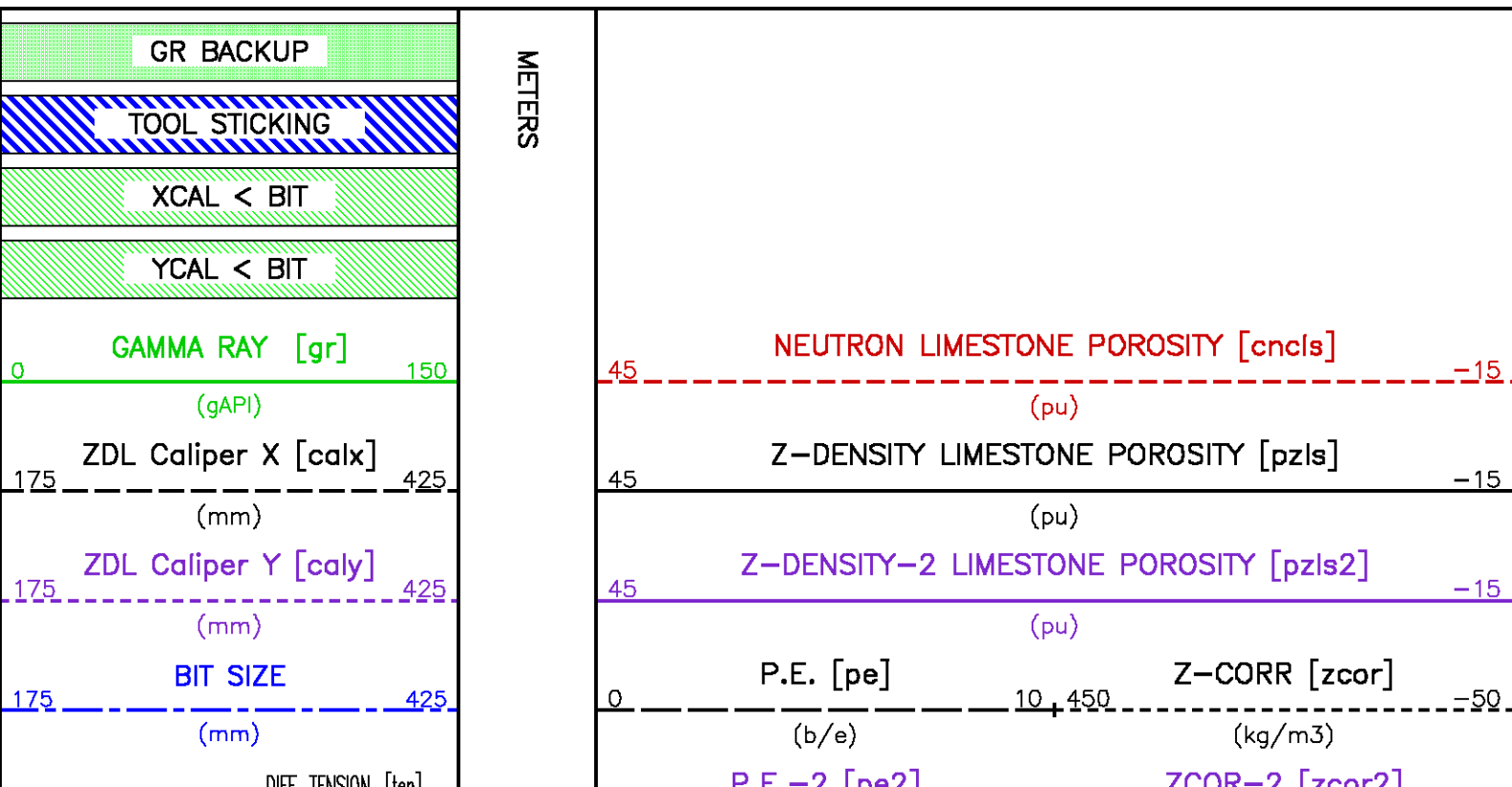
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Nov 3 01:15:13 2010	BIT SIZE
F1:CALX	Nov 3 01:15:13 2010	CALIPER FROM X-AXIS OF XY CALIPER(S)
F1:CALY	Nov 3 01:15:13 2010	CALIPER FROM Y-AXIS OF XY CALIPER(S)
F1:CHT	Nov 3 01:15:13 2010	CABLE HEAD TENSION
F1:CNCLS	Nov 3 01:15:13 2010	BOREHOLE SIZE CORRECTED LIMESTONE COMPENSATED NEU POROSITY
F1:GR	Nov 3 01:15:13 2010	GAMMA RAY
F1:MMRK	Nov 3 01:15:13 2010	MINUTE MARK
F1:PE	Nov 3 01:15:13 2010	PHOTO ELECTRIC CROSS-SECTION
F1:PE2	Nov 3 01:15:13 2010	PHOTOELECTRIC CROSS-SECTION (2ND TOOL)
F1:PZLS	Nov 3 01:15:13 2010	POROSITY FOR LIMESTONE MATRIX
F1:PZLS2	Nov 3 01:15:13 2010	POROSITY FOR LIMESTONE MATRIX (2ND TOOL)
F1:TEN	Nov 3 01:15:13 2010	DIFFERENTIAL TENSION
F1:ZCOR	Nov 3 01:15:13 2010	DENSITY CORRECTION
F1:ZCOR2	Nov 3 01:15:13 2010	DENSITY CORRECTION (2ND TOOL)

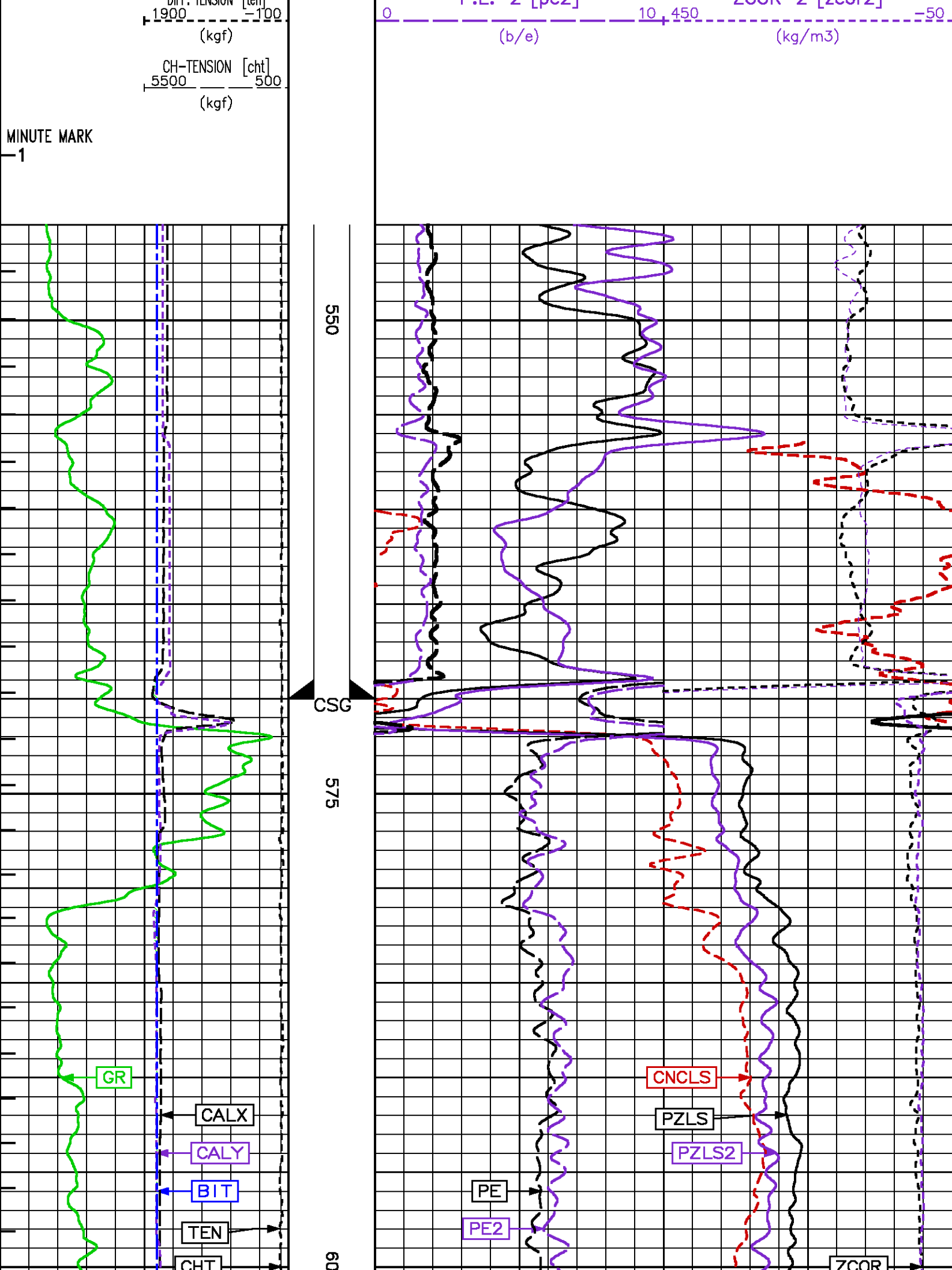
CURVE MEASURE POINT OFFSET

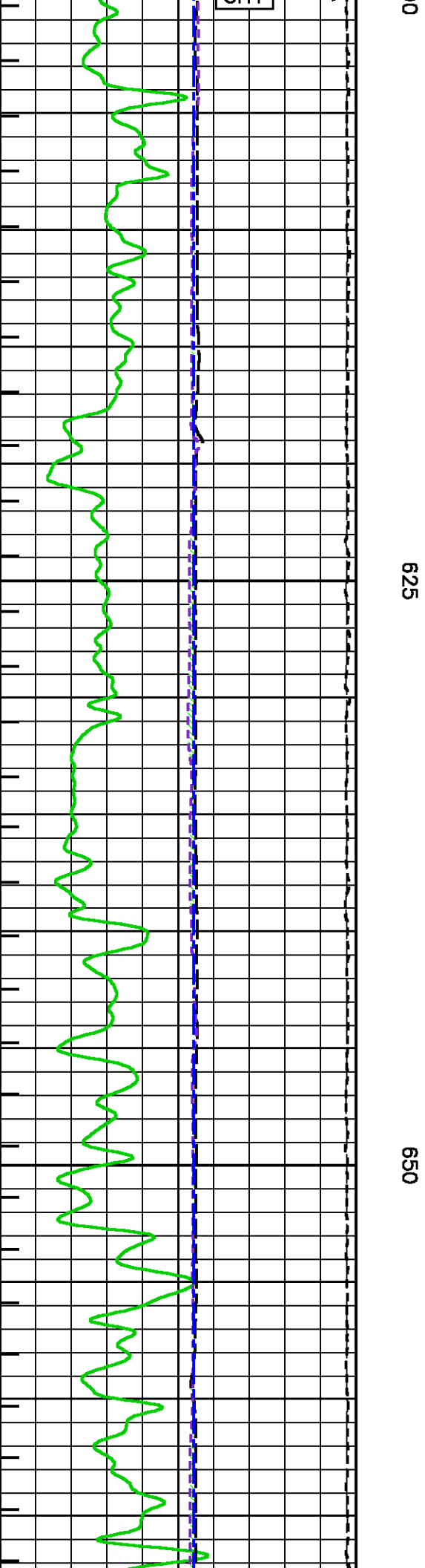
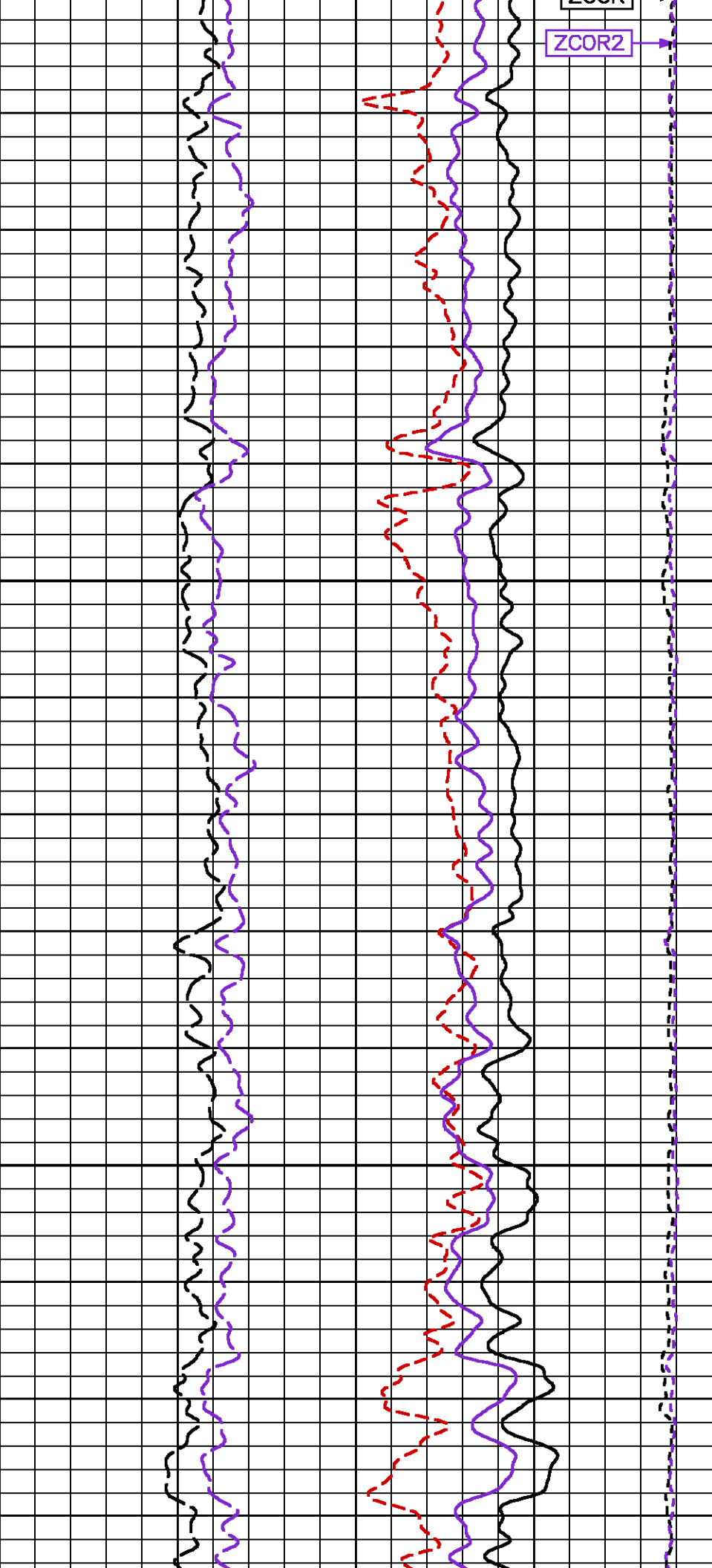
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CNCLS	12.50	PZLS	9.64	ZCOR2	5.49
CALX	9.64	GR	33.68	PZLS2	5.49		
CALY	5.49	PE	9.64	TEN	0.00		
CHT	0.00	PE2	5.49	ZCOR	9.64		

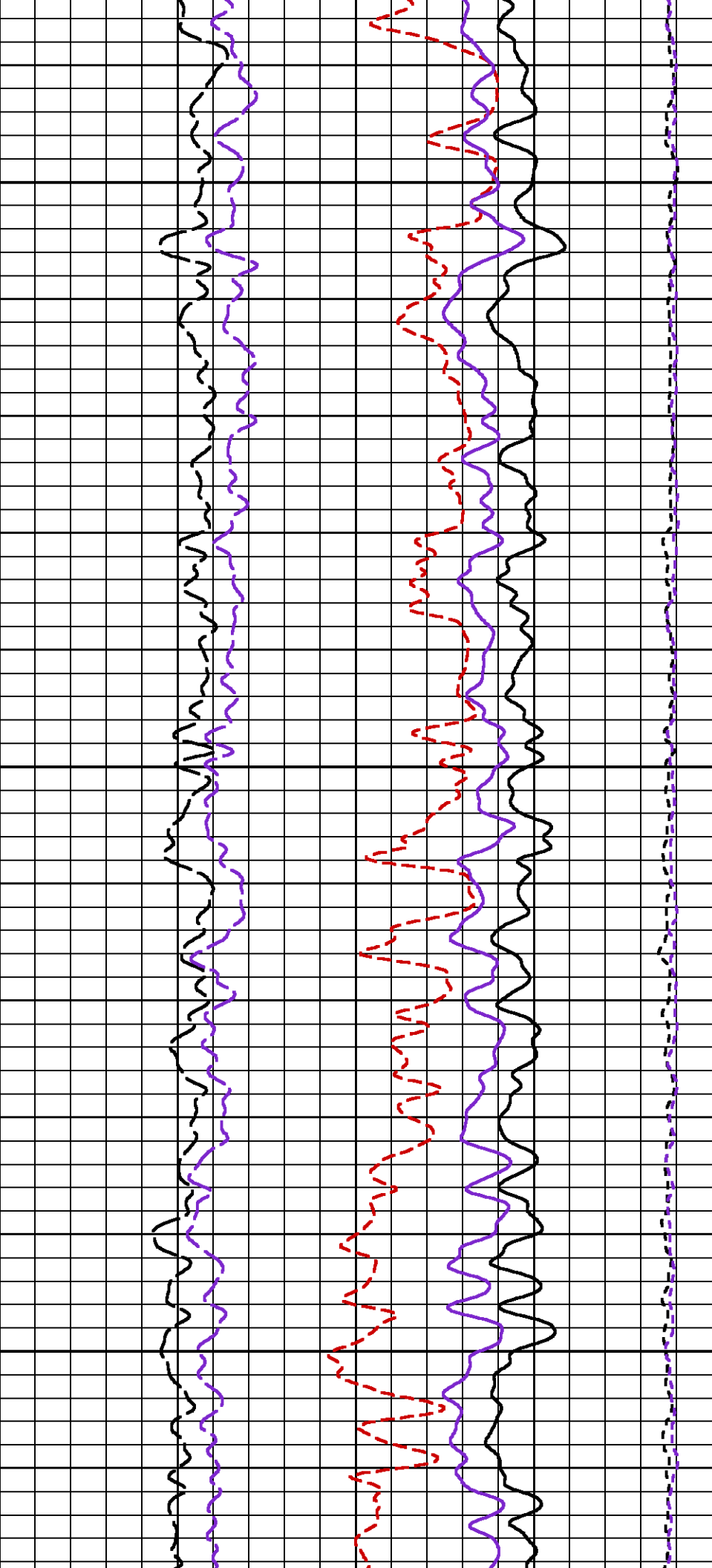
Presentation : cpu1:/dat1a/pass/nalcor_run1/zdl2_main_ls.pdf [1:240 Scale]
Plot Interval : 545 - 2283.94 Meters

Data File 1 : F1 : cpu1:/dat1a/pass/nalcor_run1/r1f2_main.xtf
Created On : Nov 3 01:15:13 2010
Company : NALCOR ENERGY
Well : NALCOR ET AL FINNEGAN 31
Field : FINNEGAN
File Interval : 504.749 - 2283.98 Meters
Oct : m980g





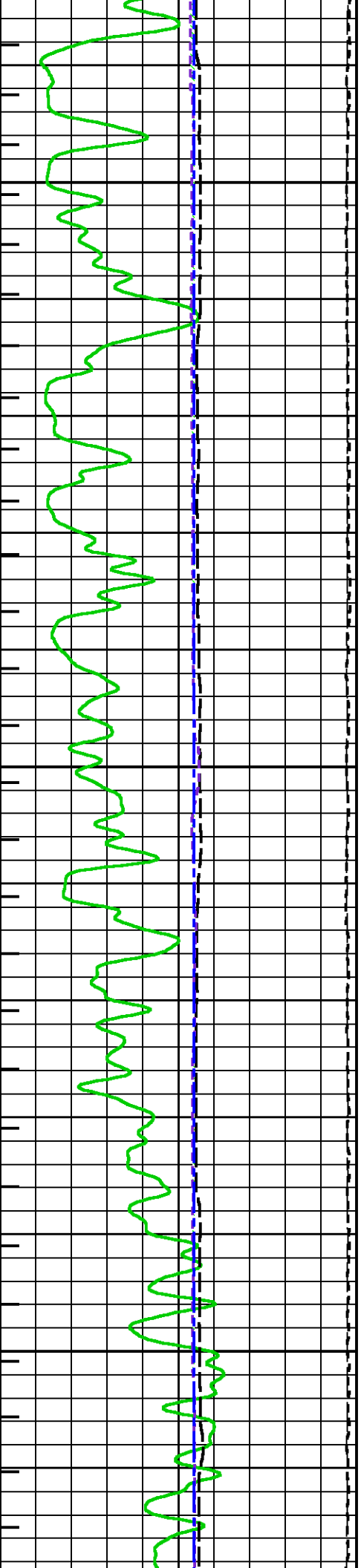


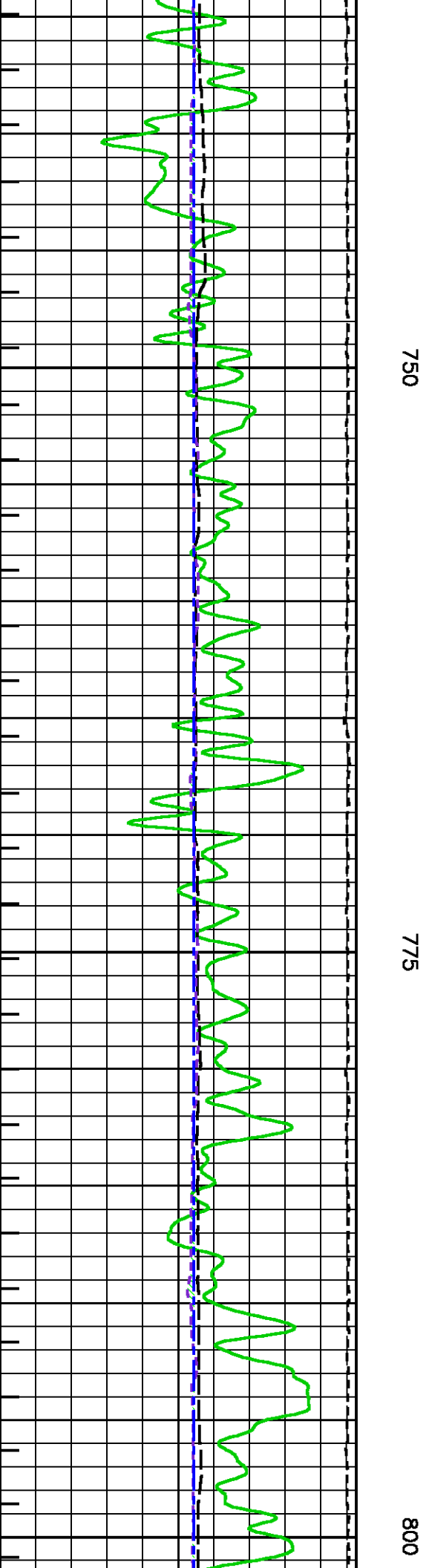
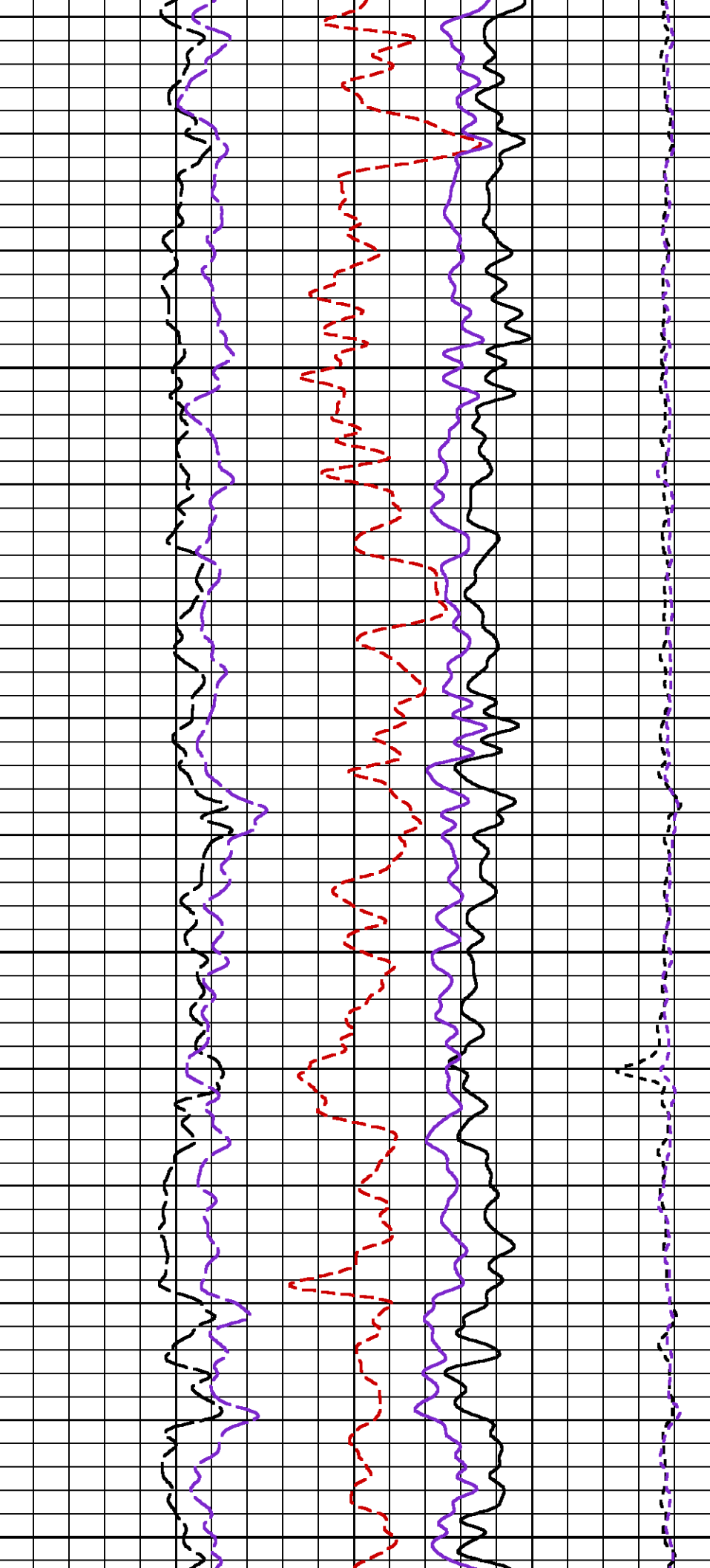


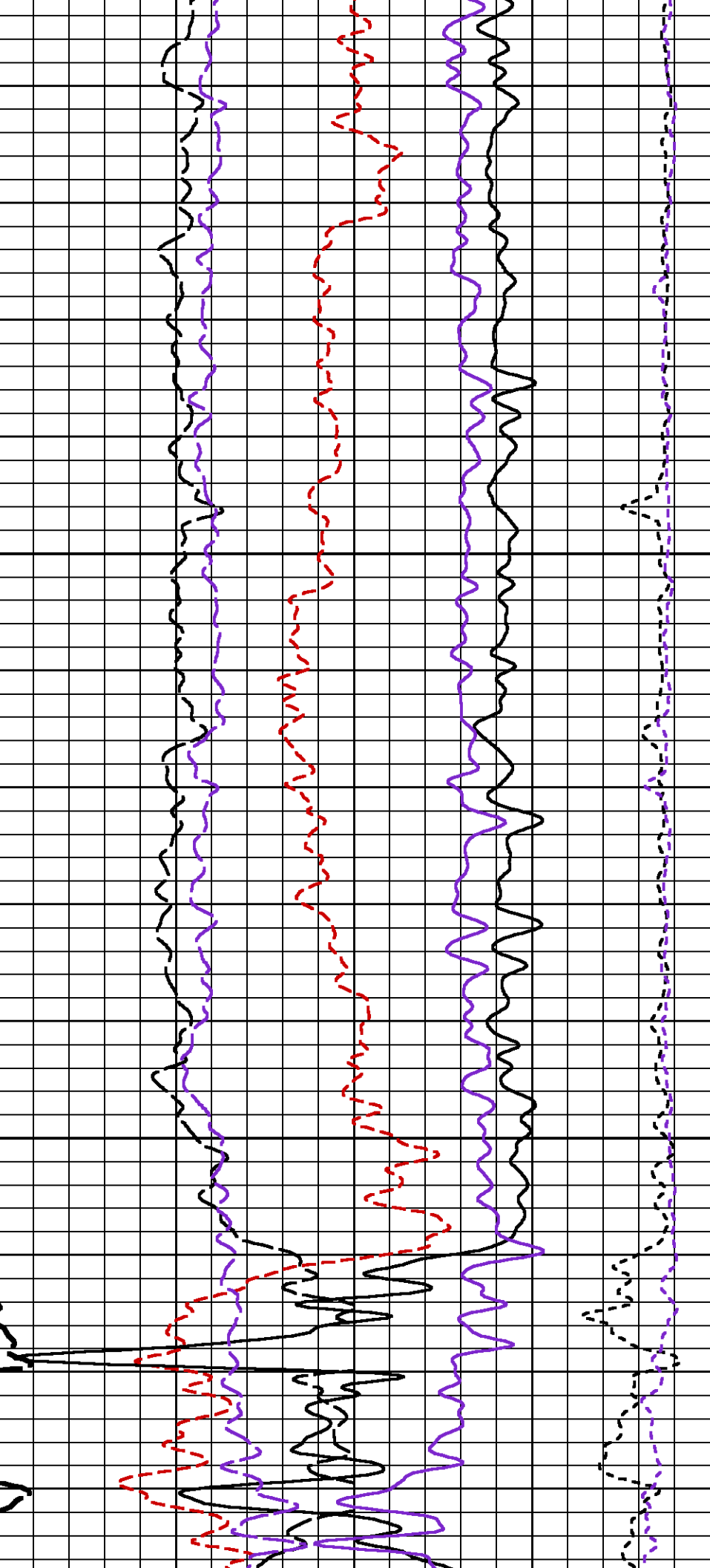
675

700

725

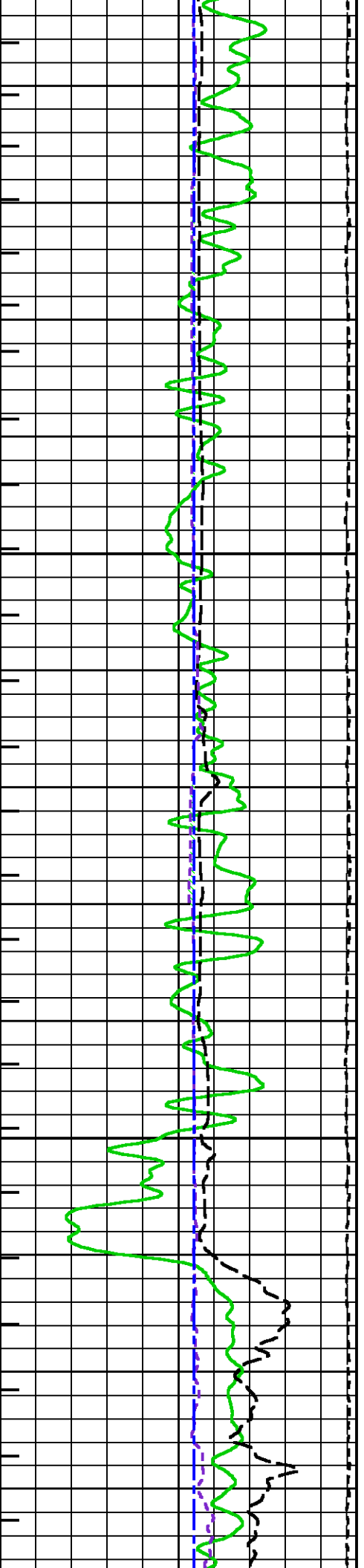


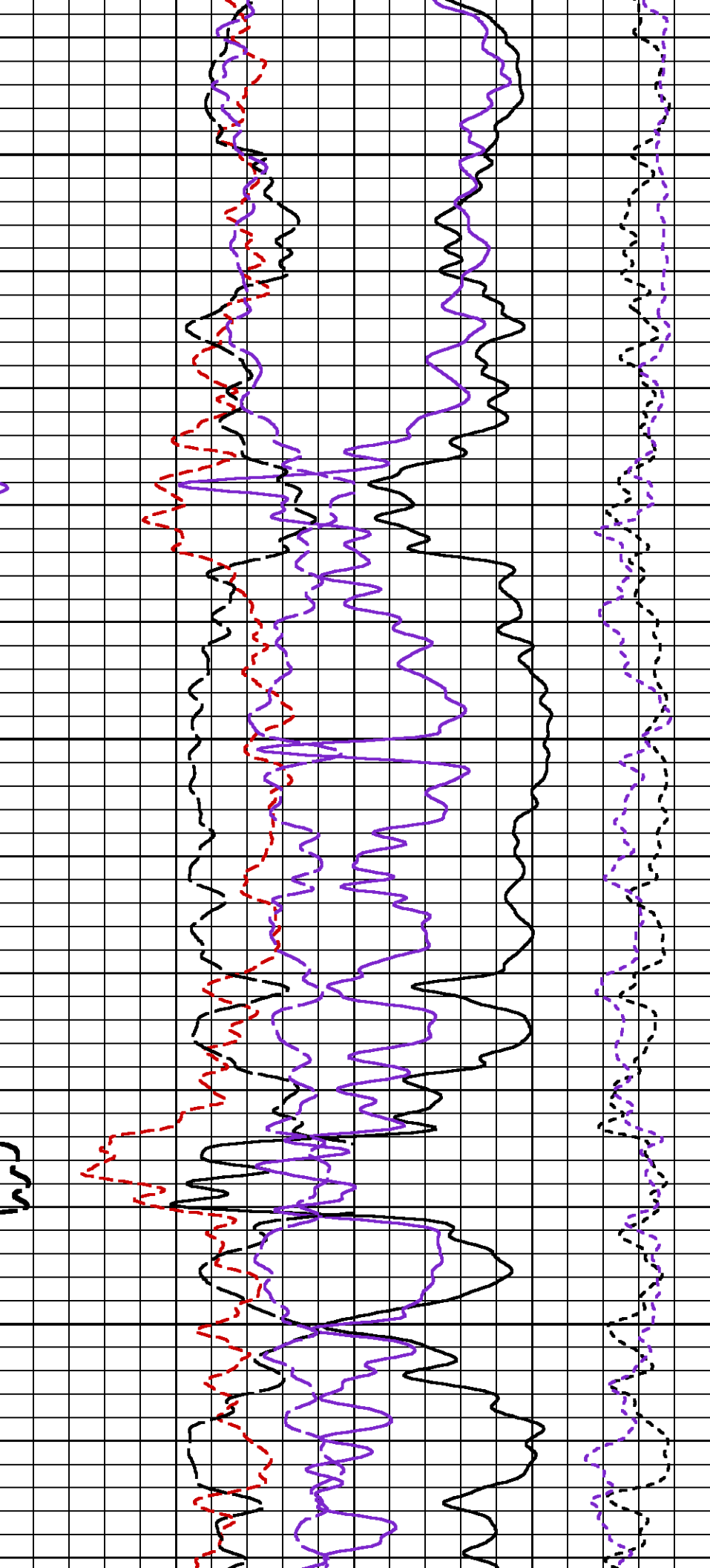




825

850

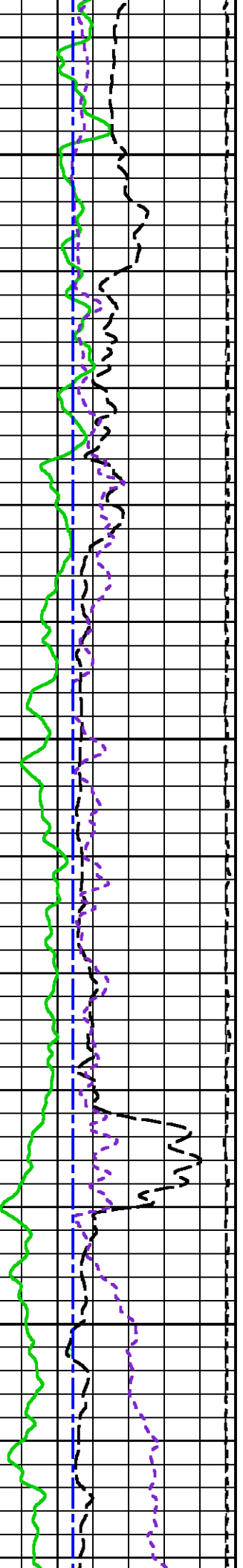


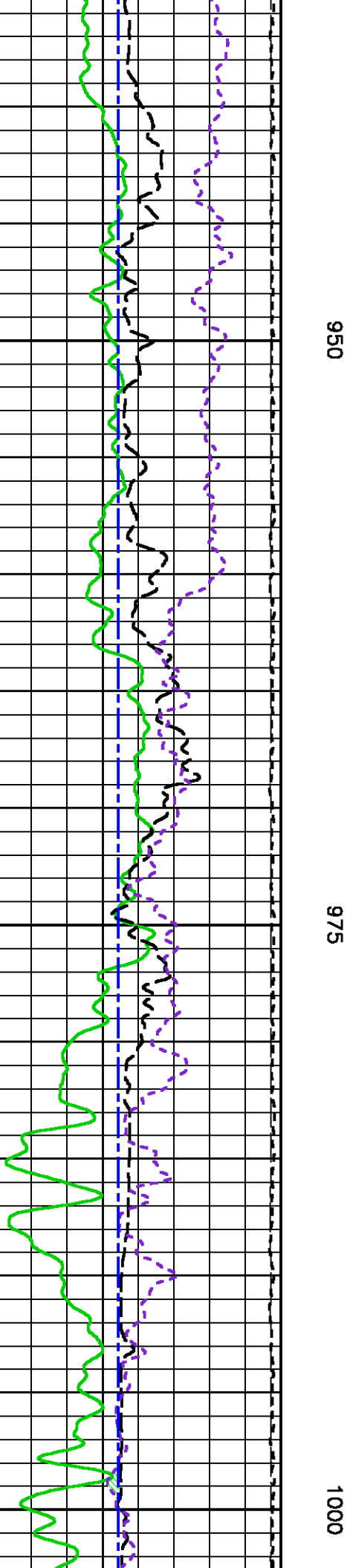
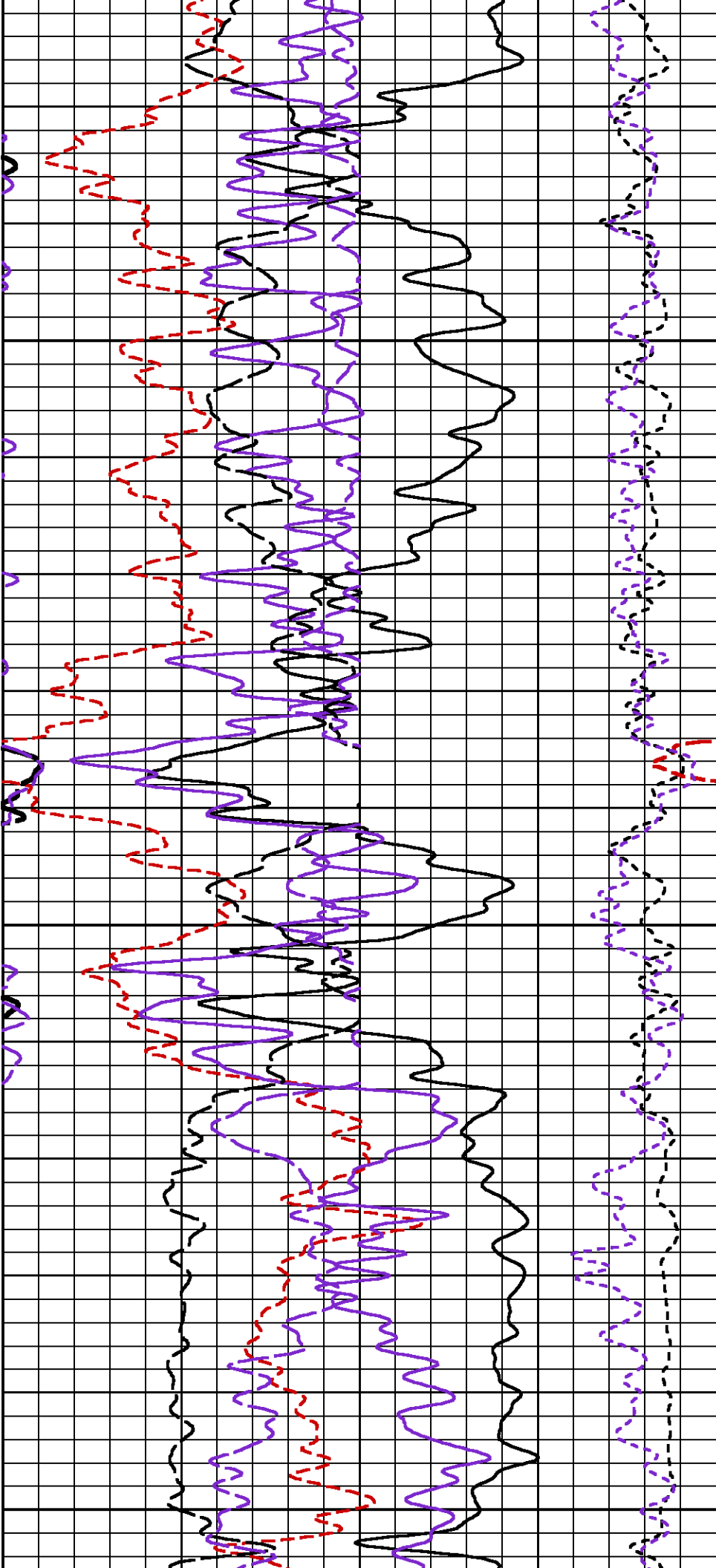


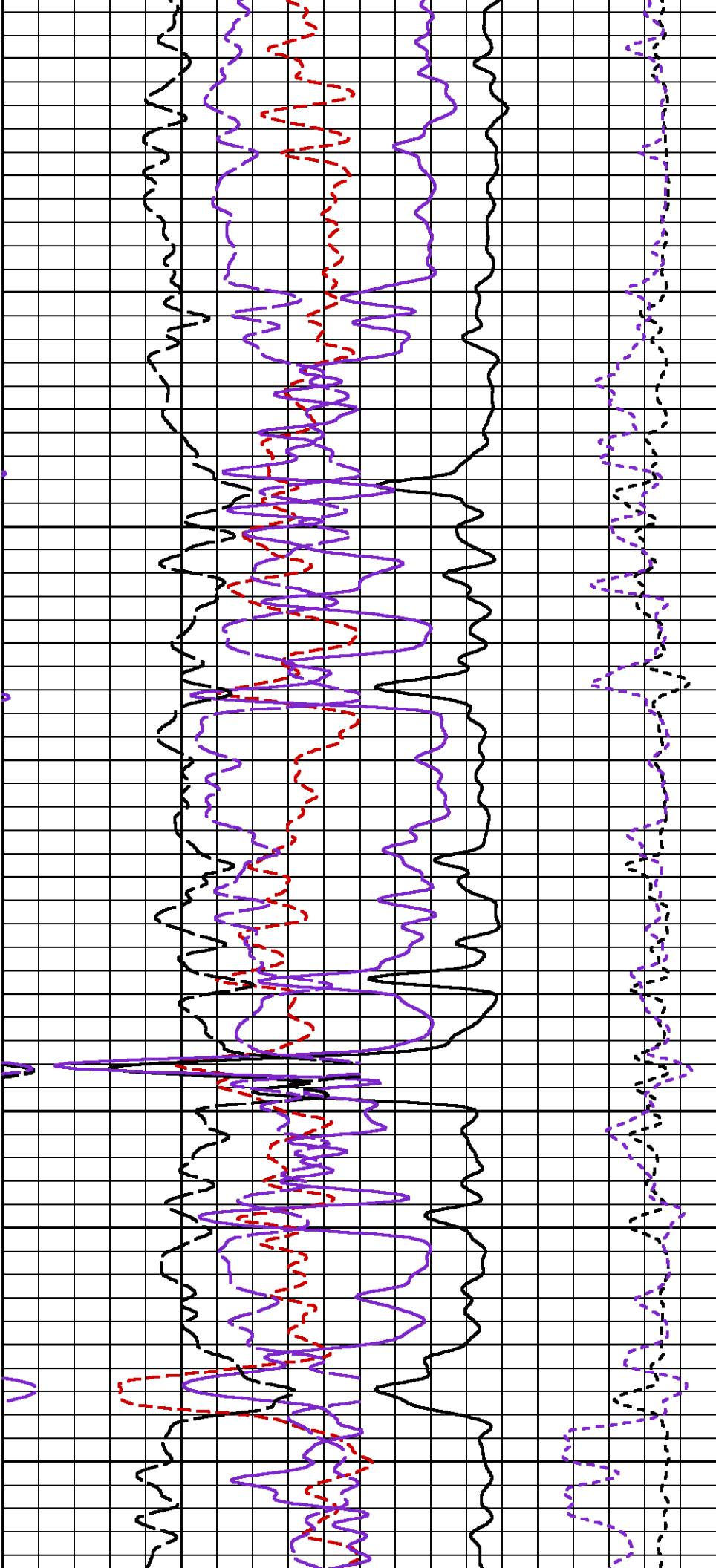
875

900

925

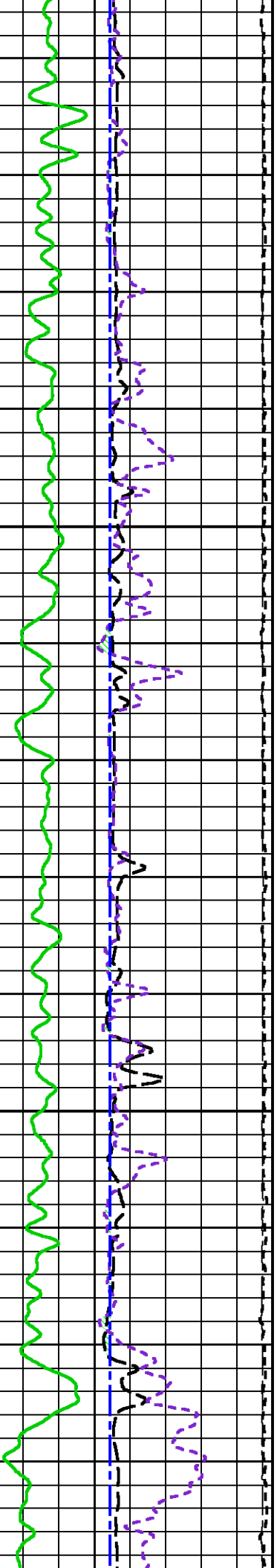


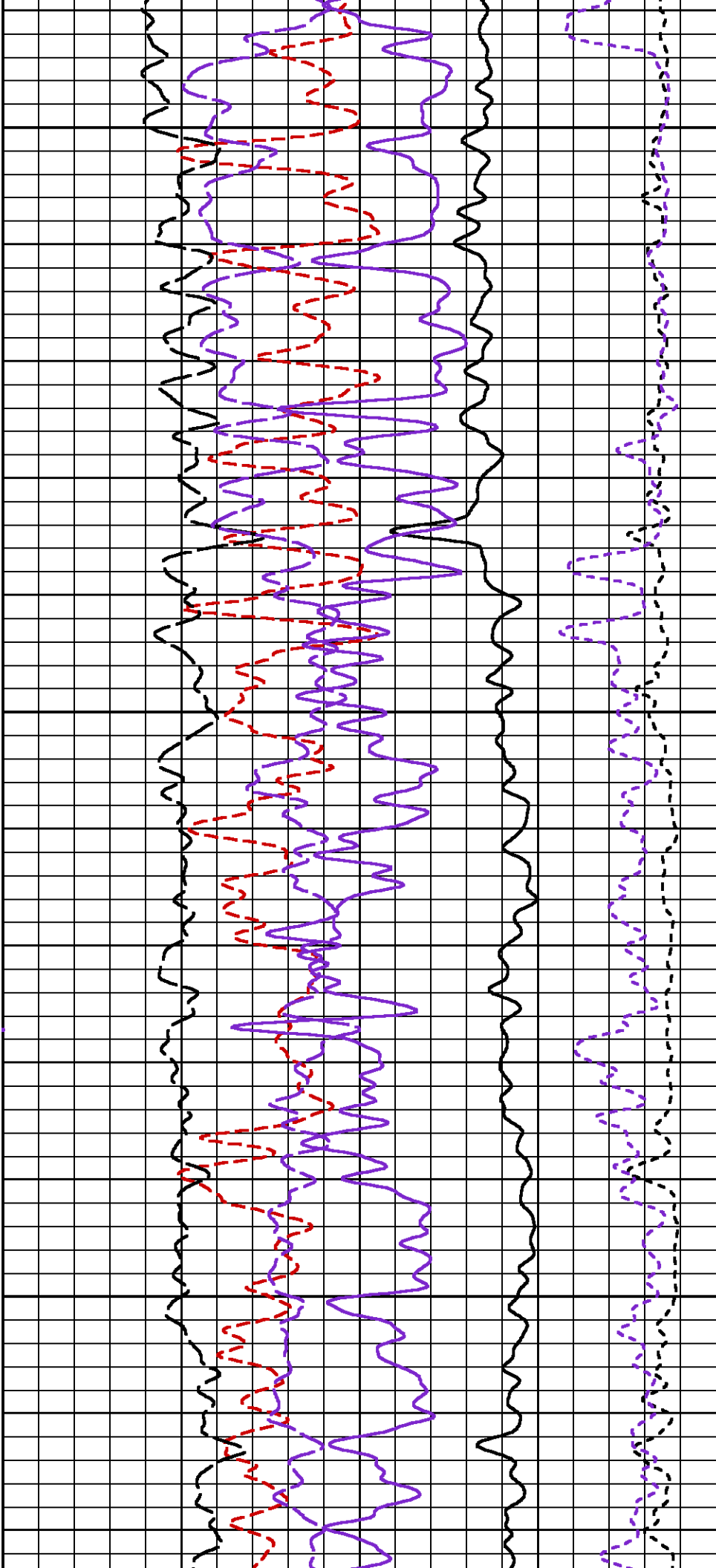




1025

1050

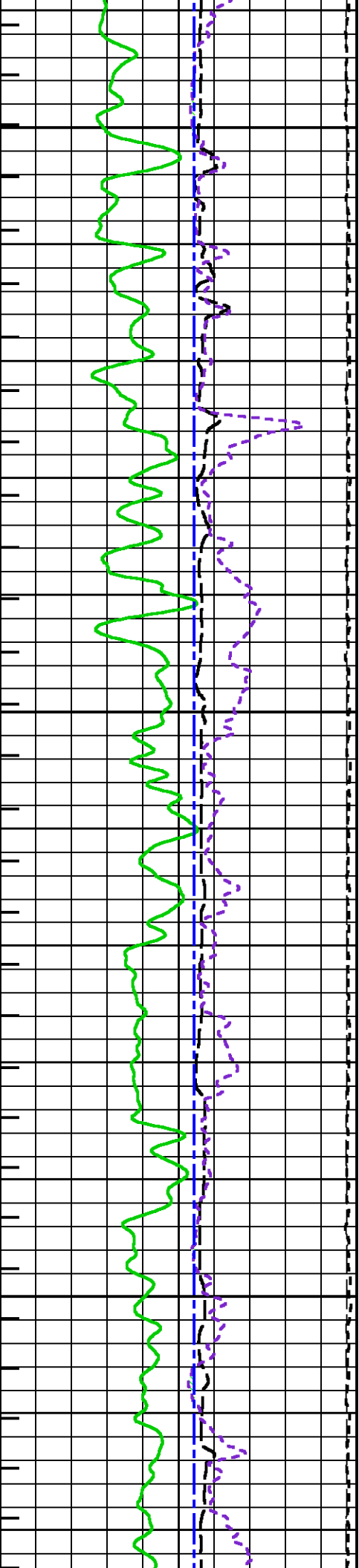


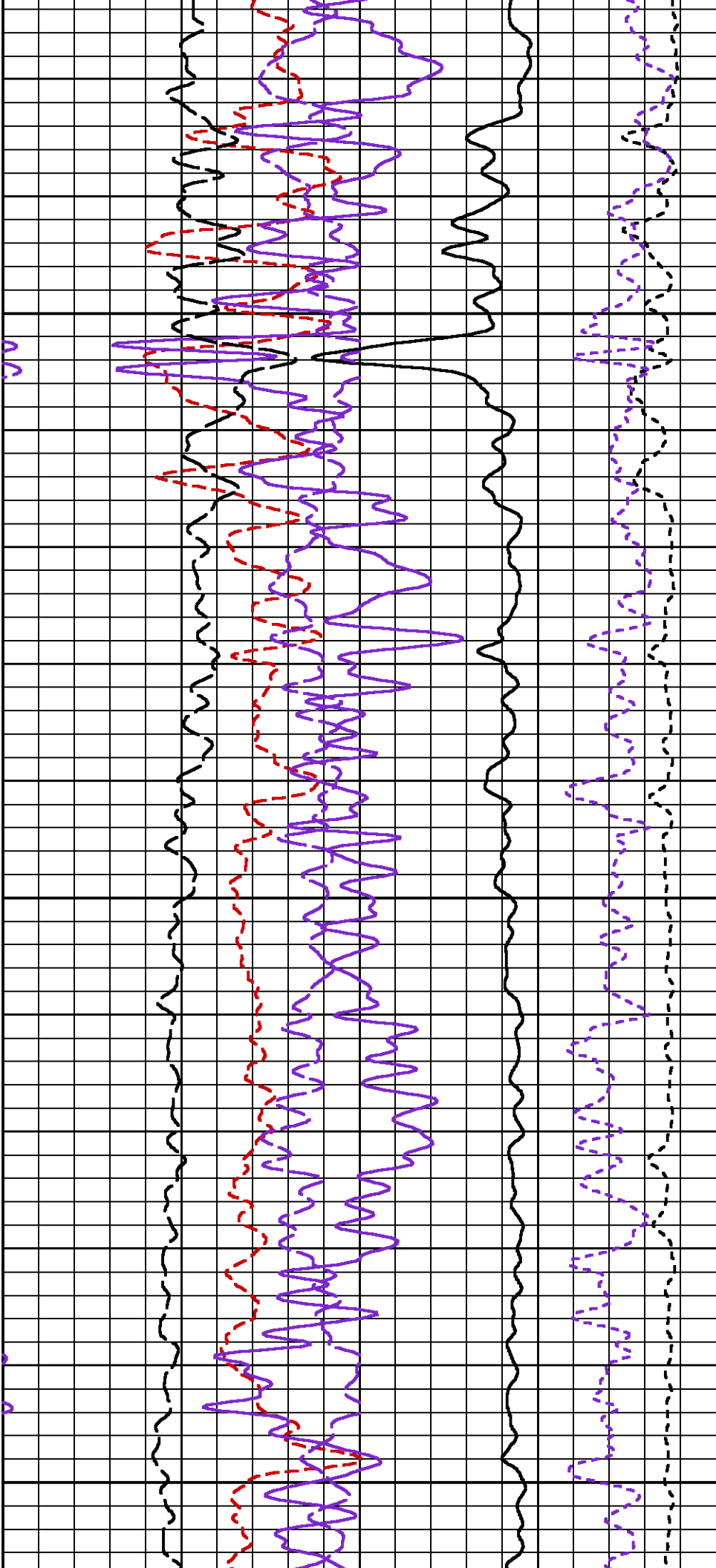


1075

1100

1125

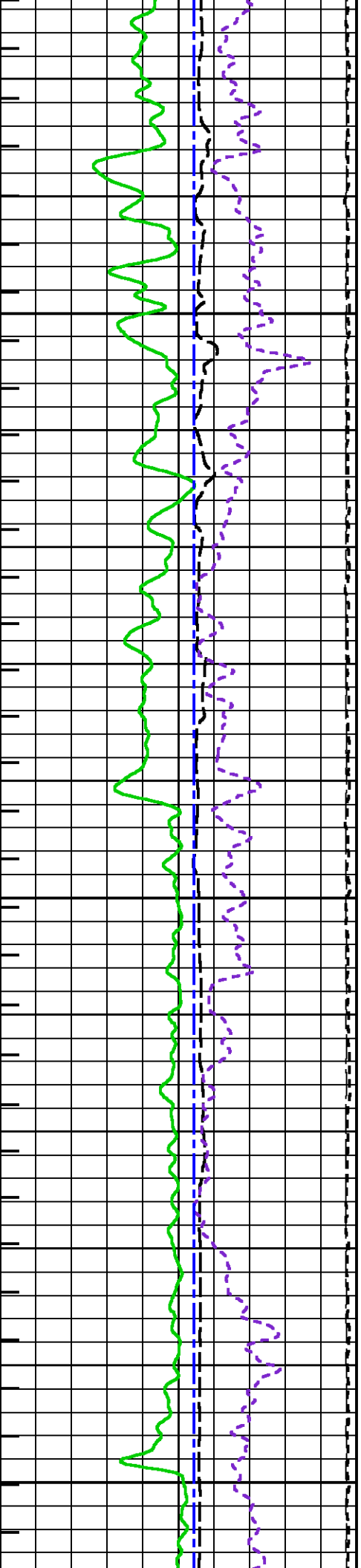


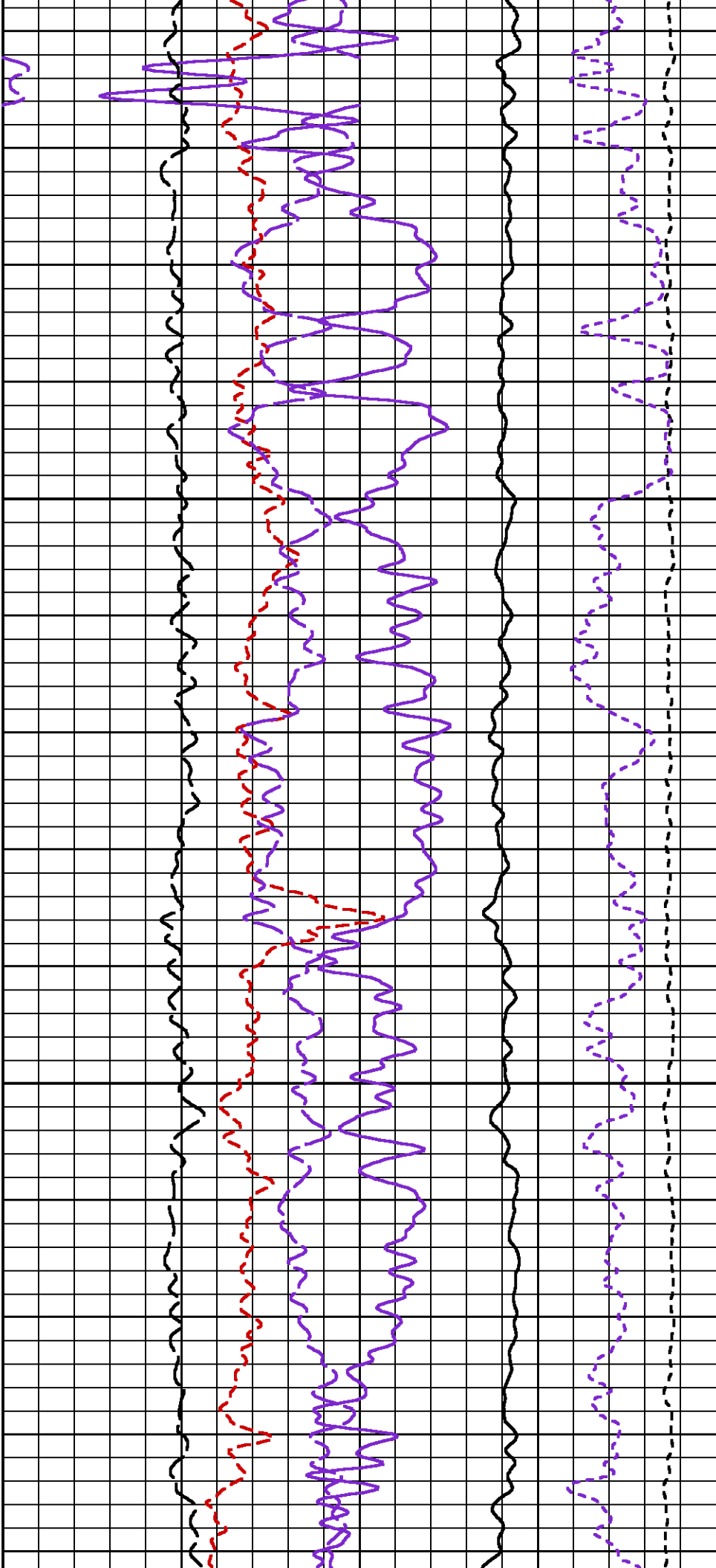


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1175

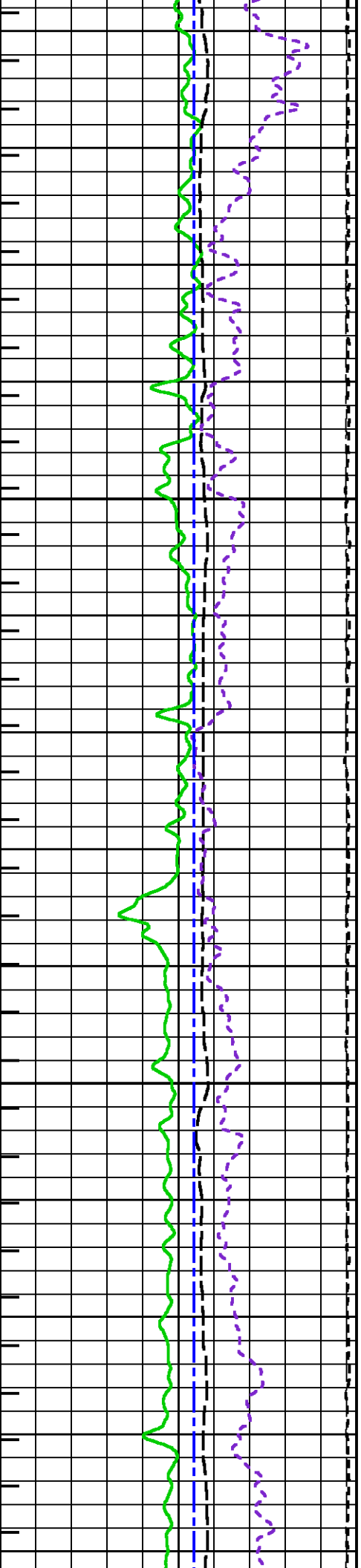
1200

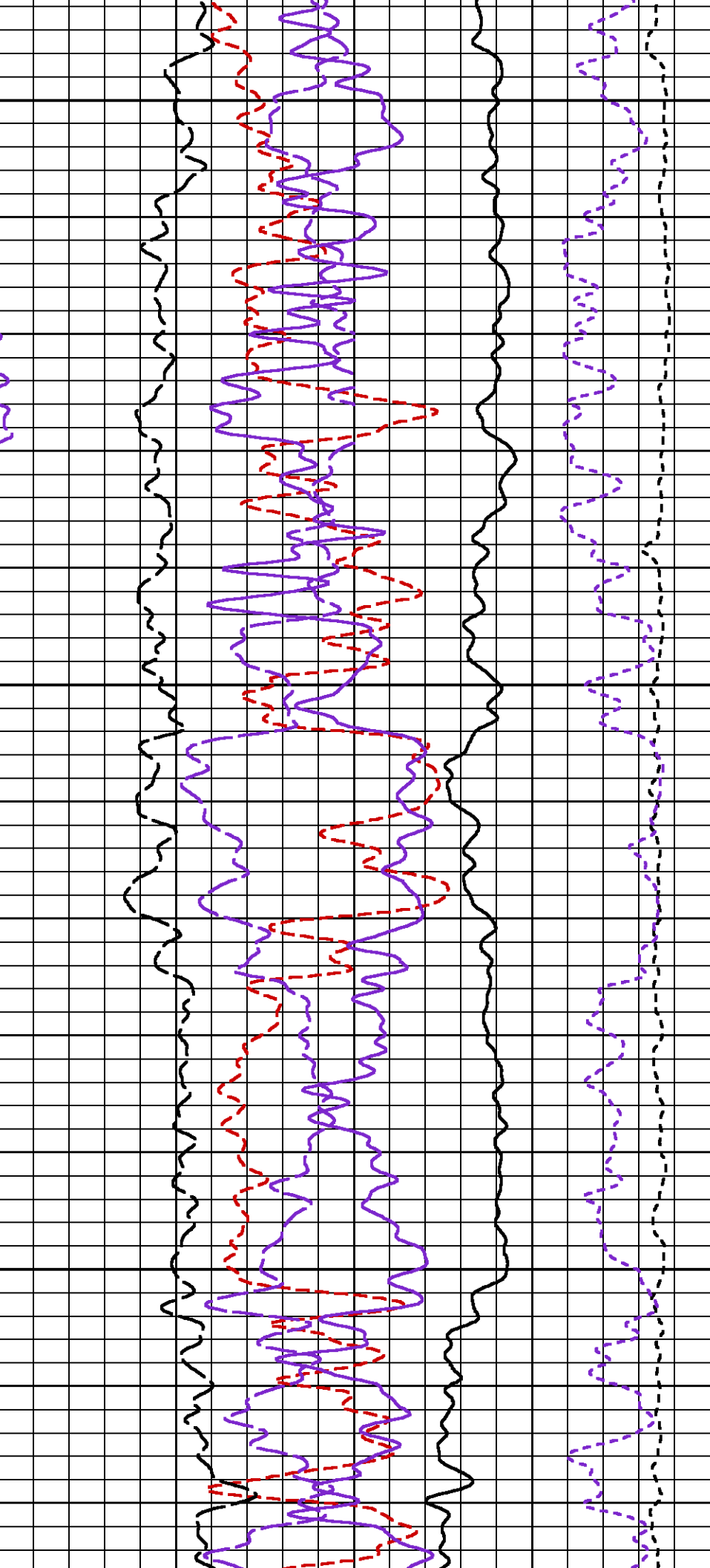




1225

1250

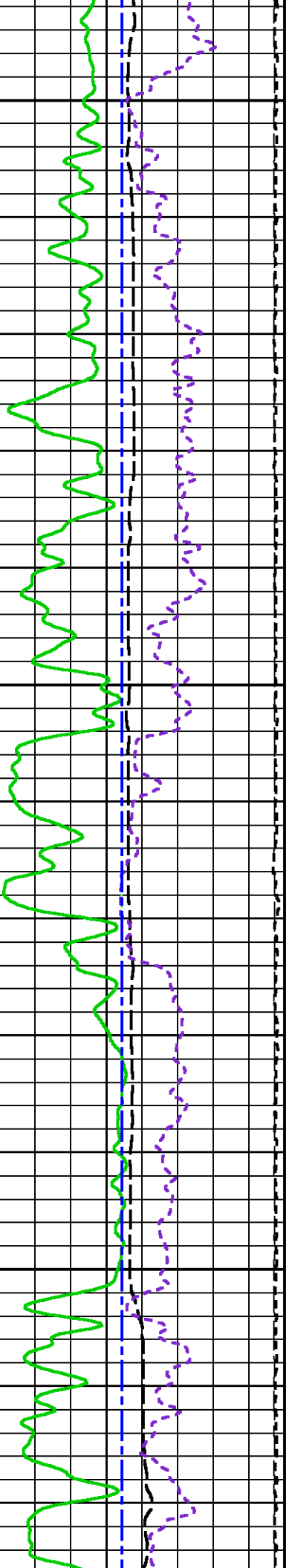


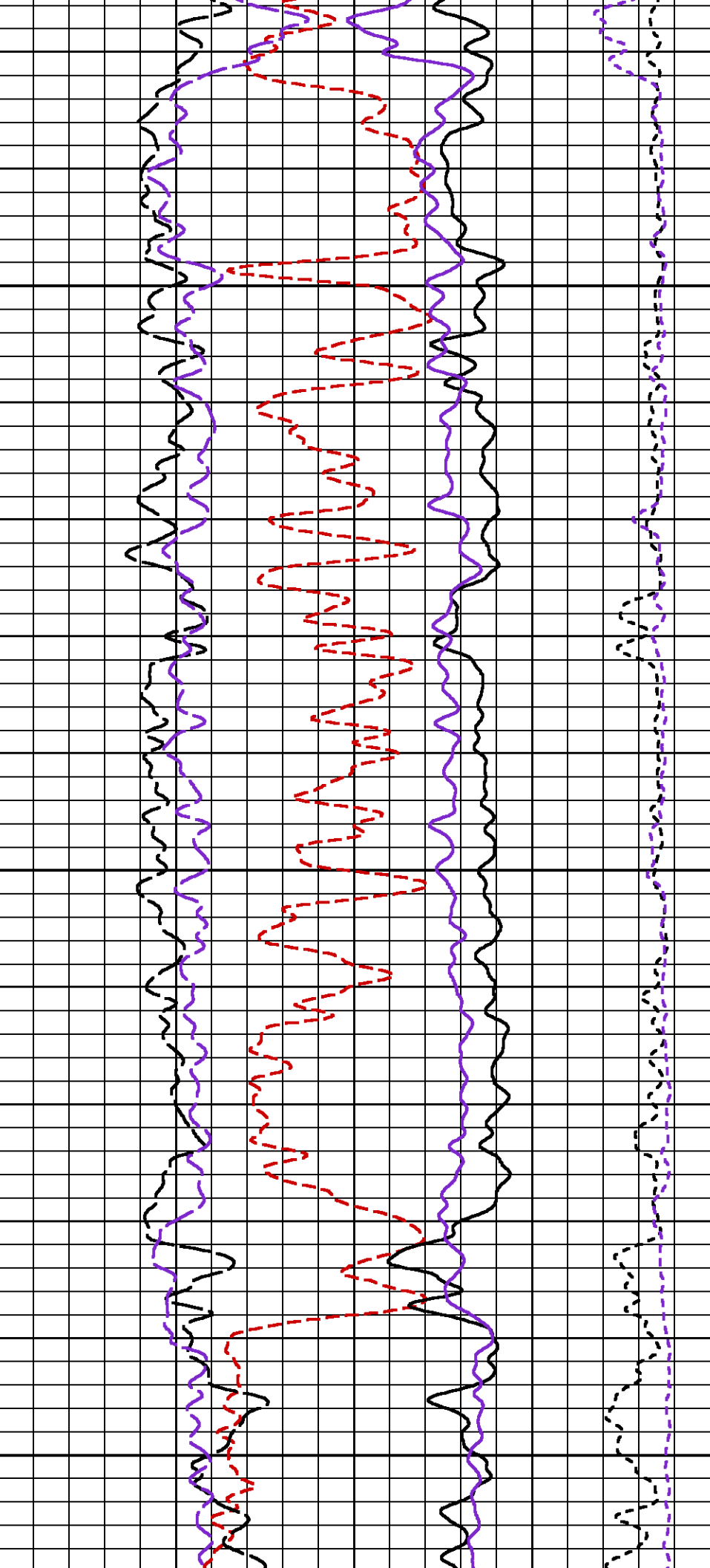


1275

1300

1325

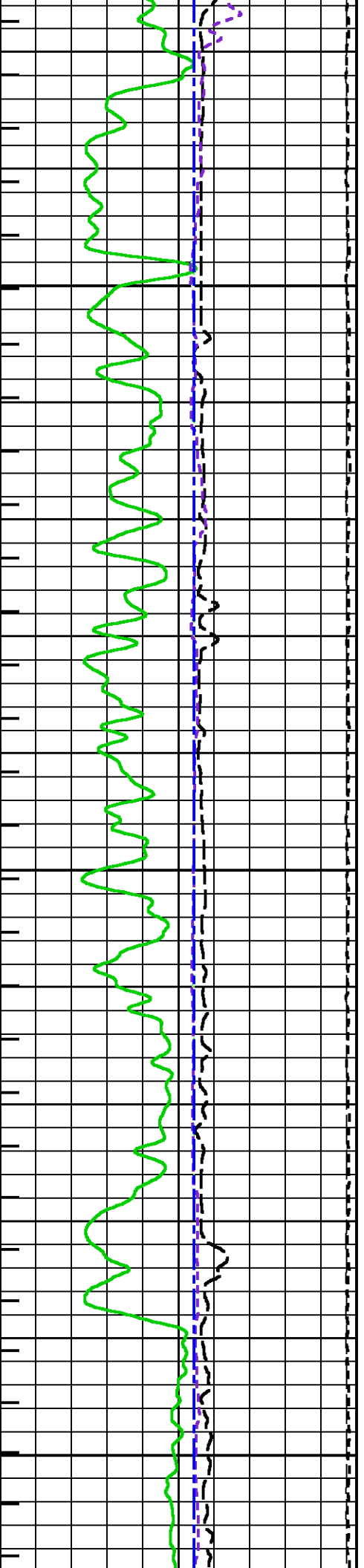


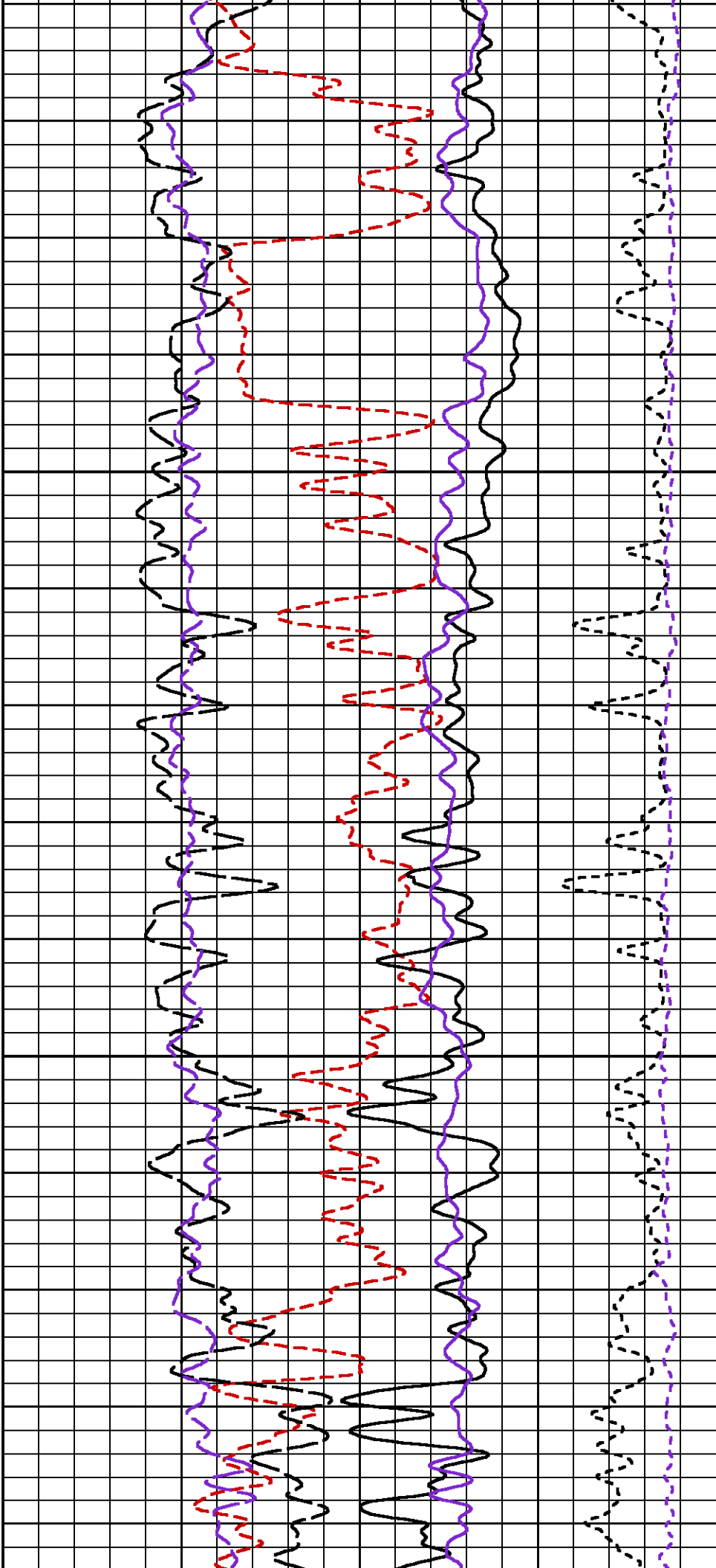


1350

1375

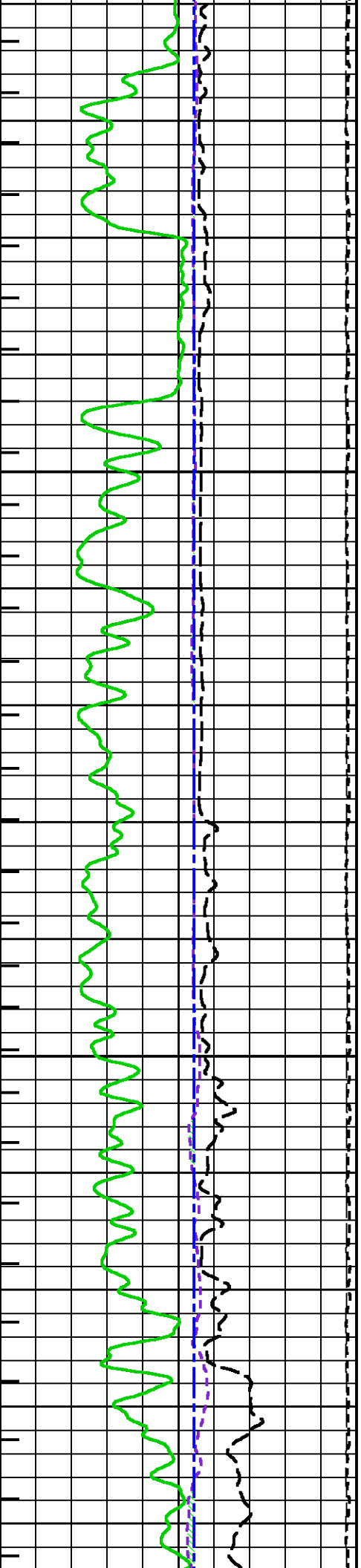
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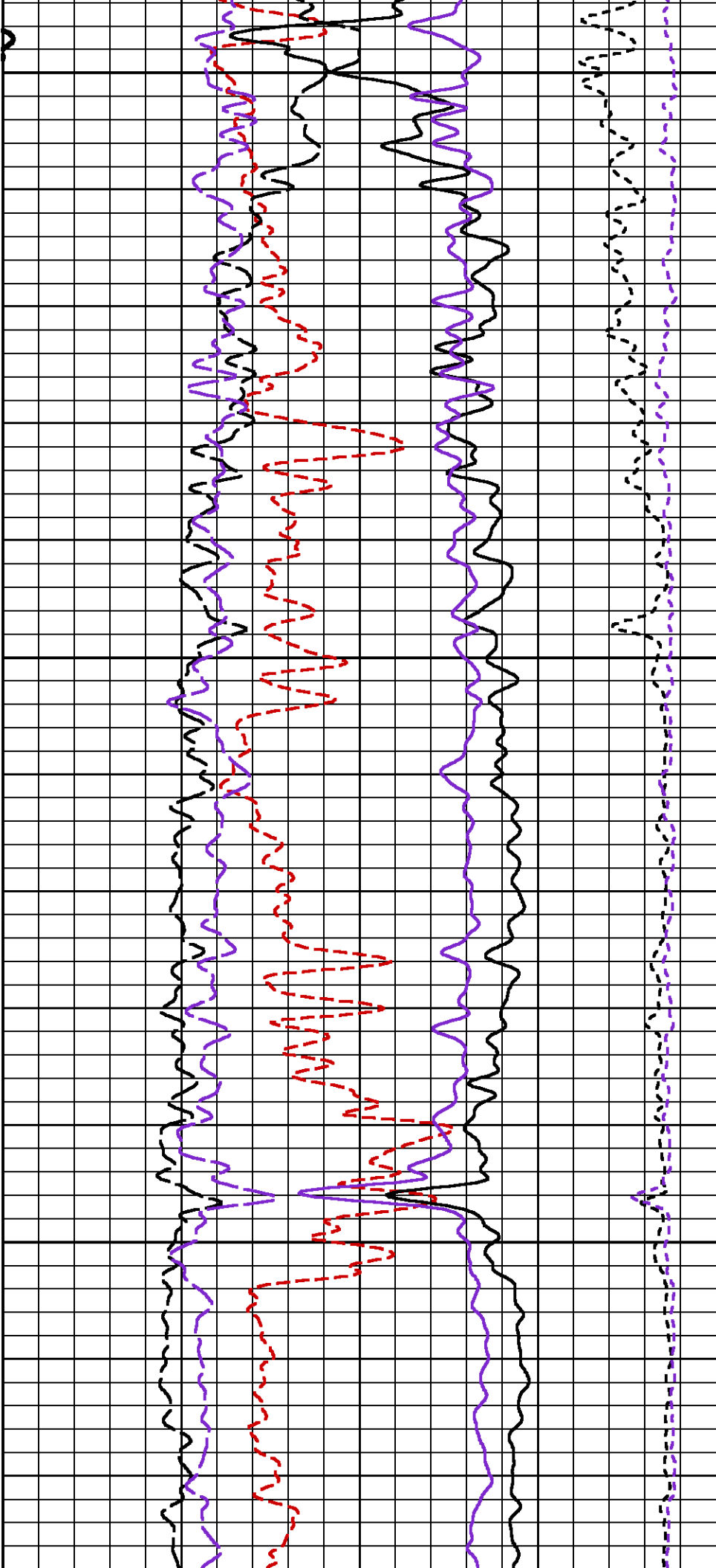




1425

1450

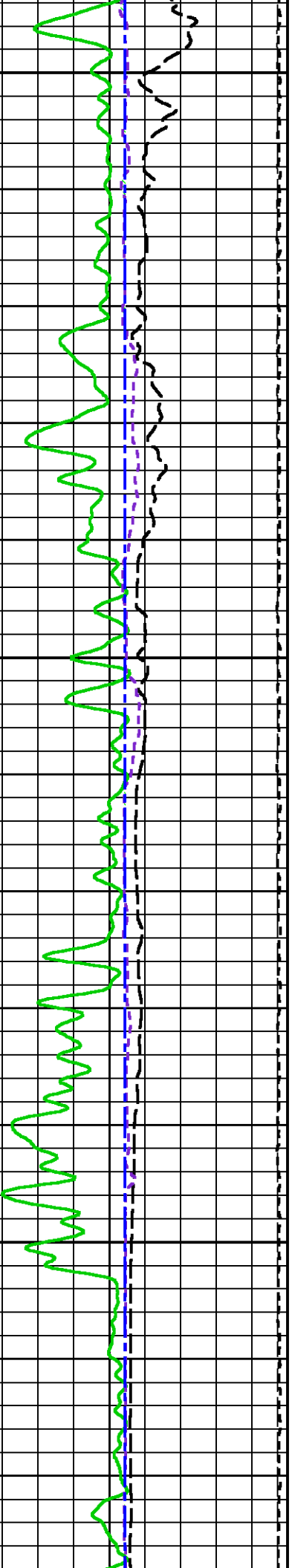


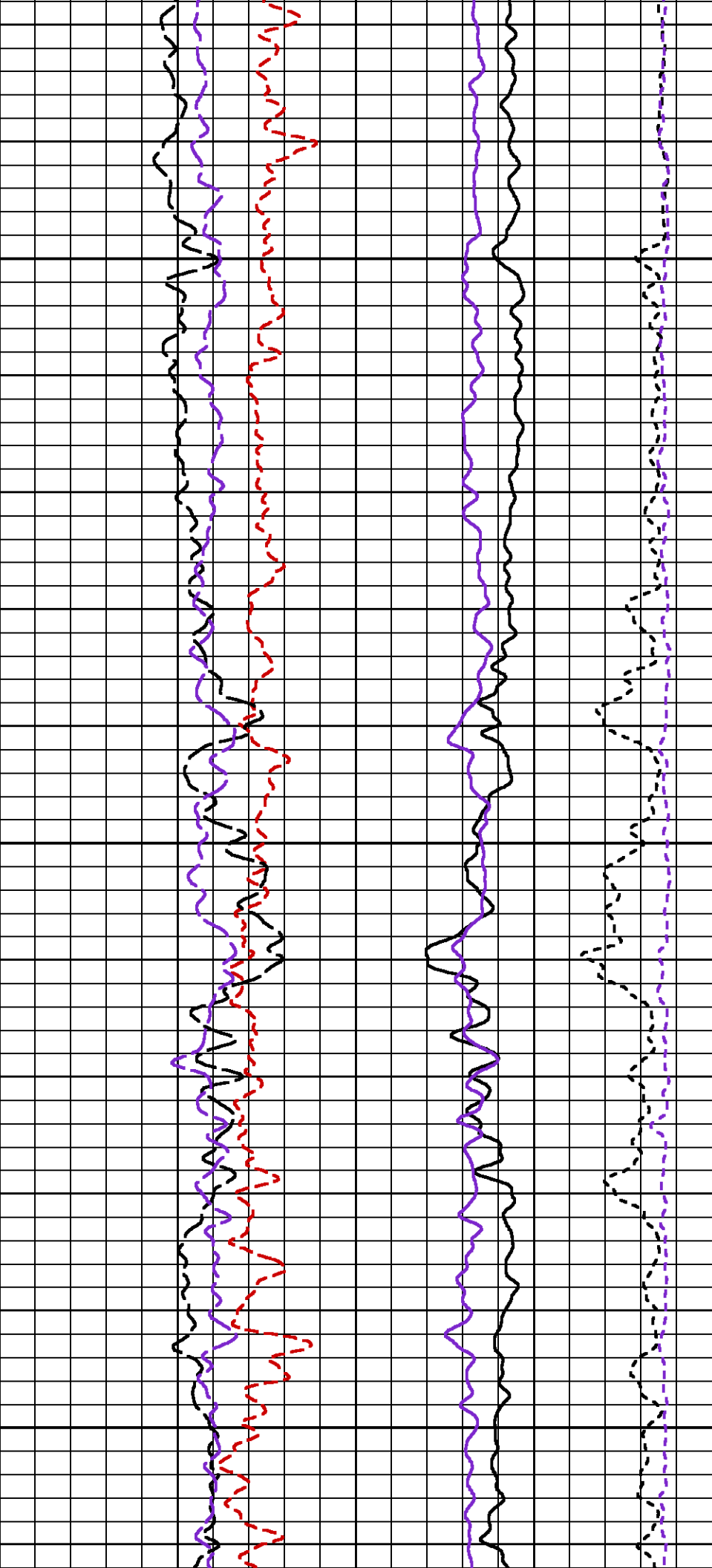


1475

1500

1525

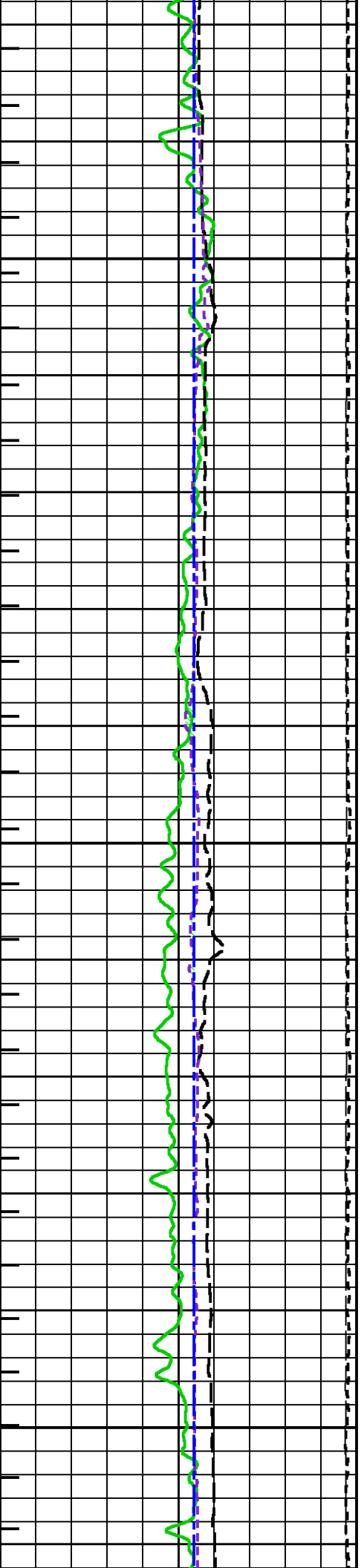


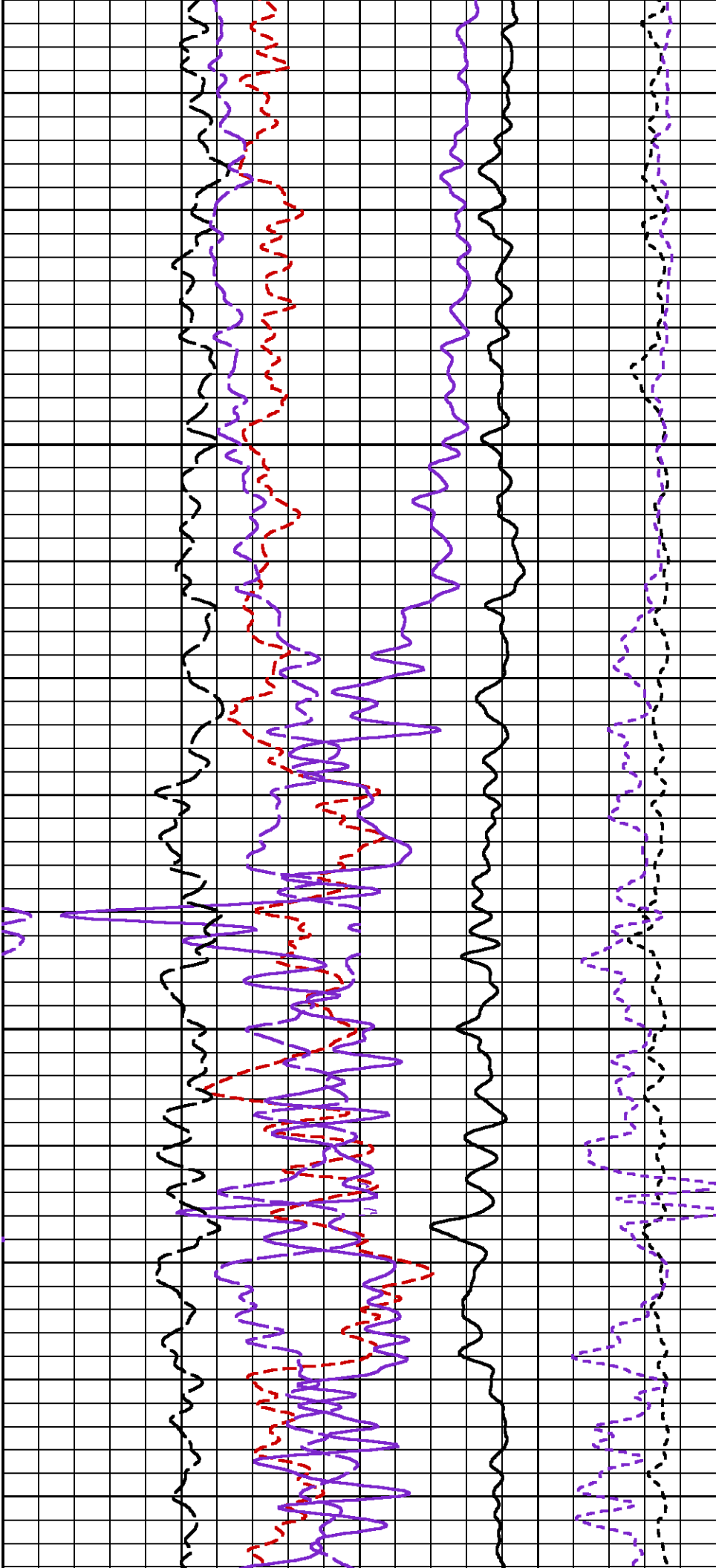


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1575

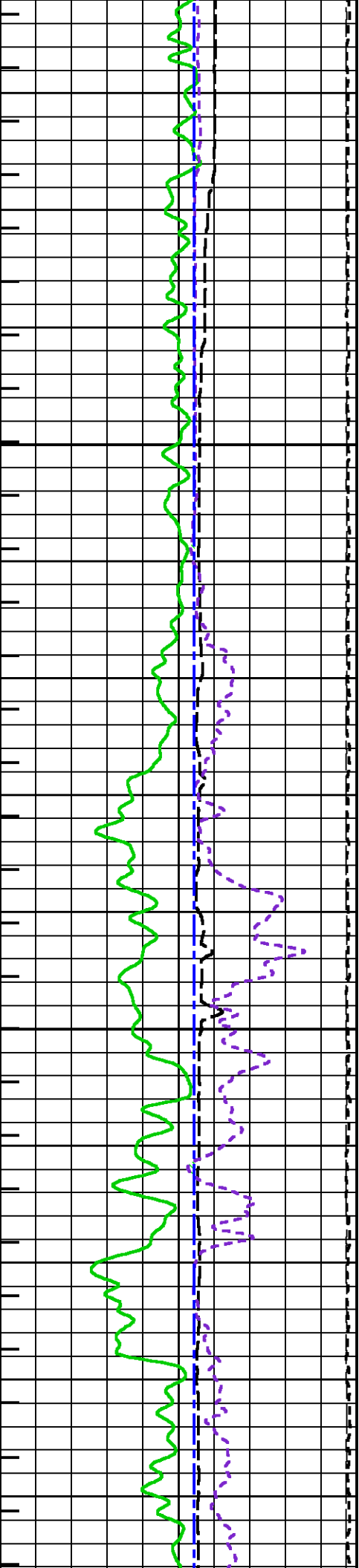
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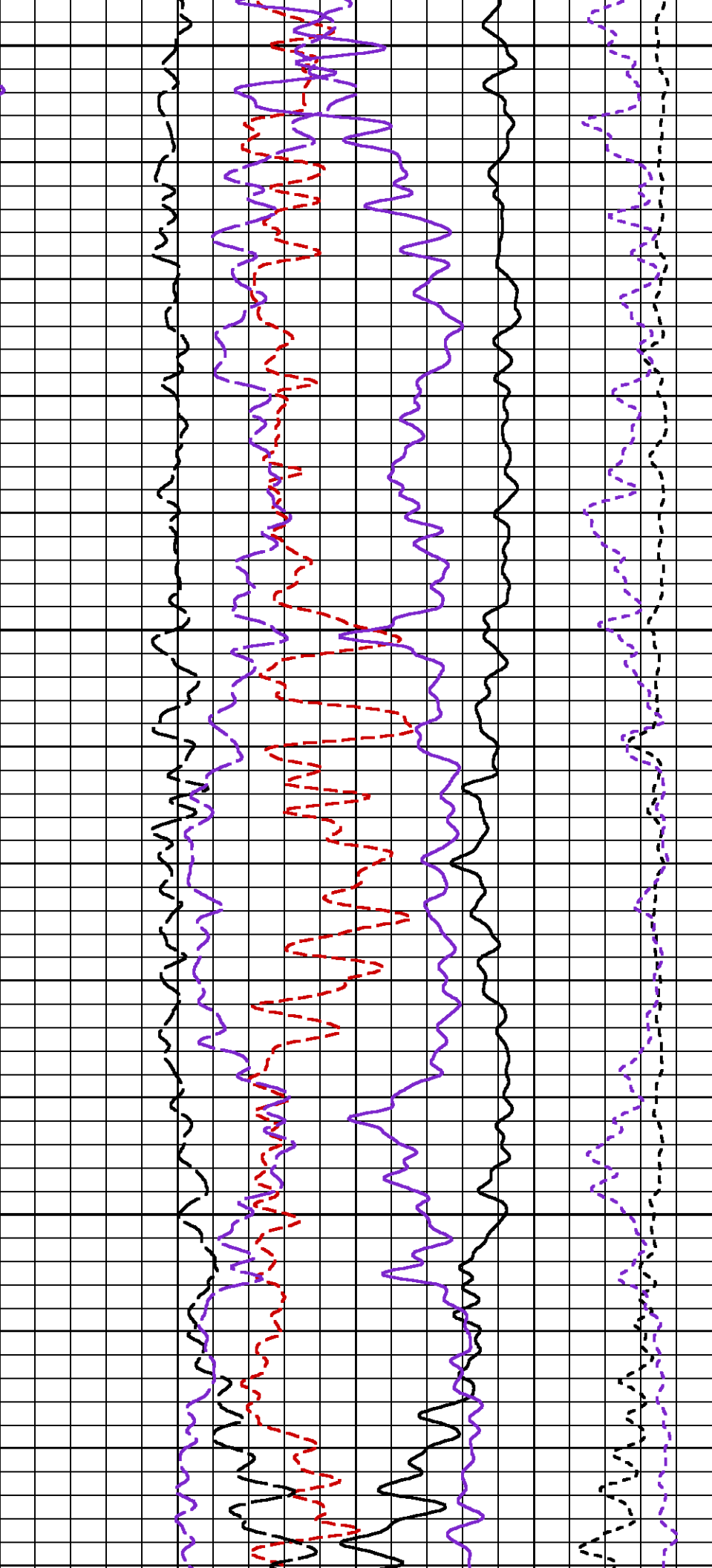




1625

1650

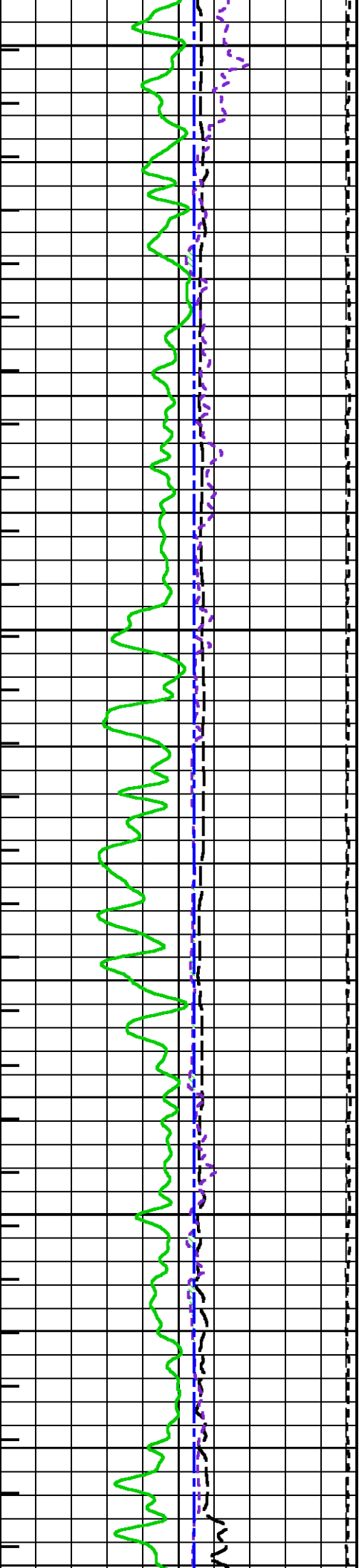


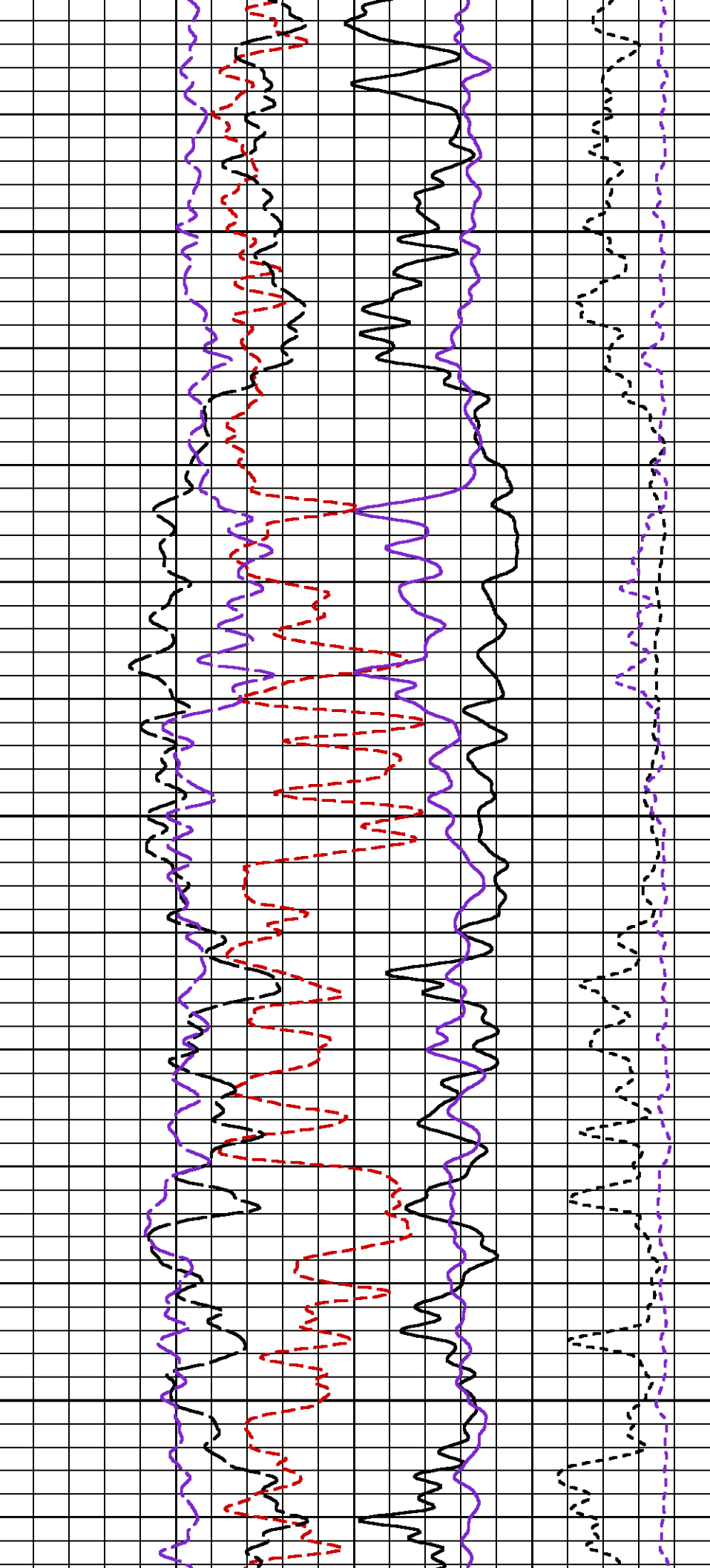


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1700

1725

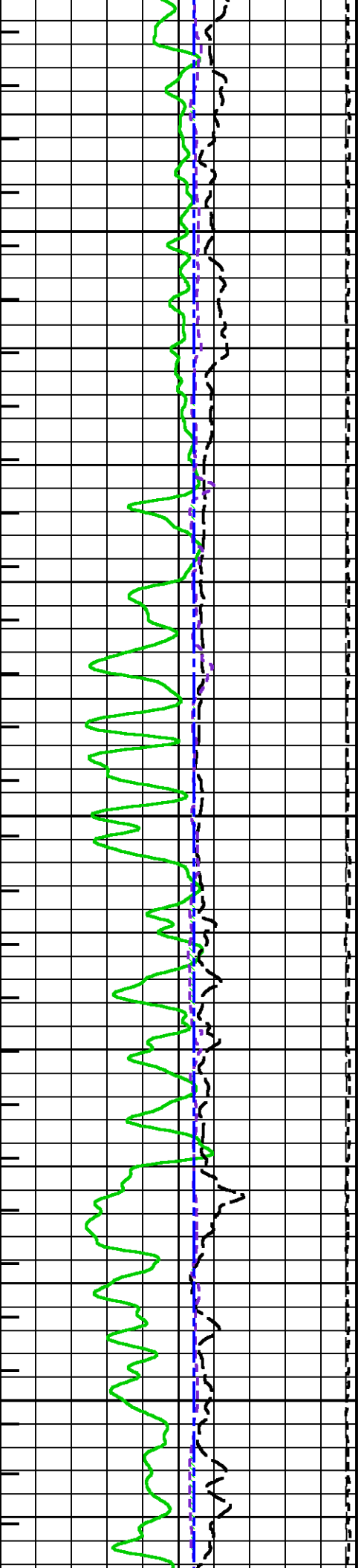


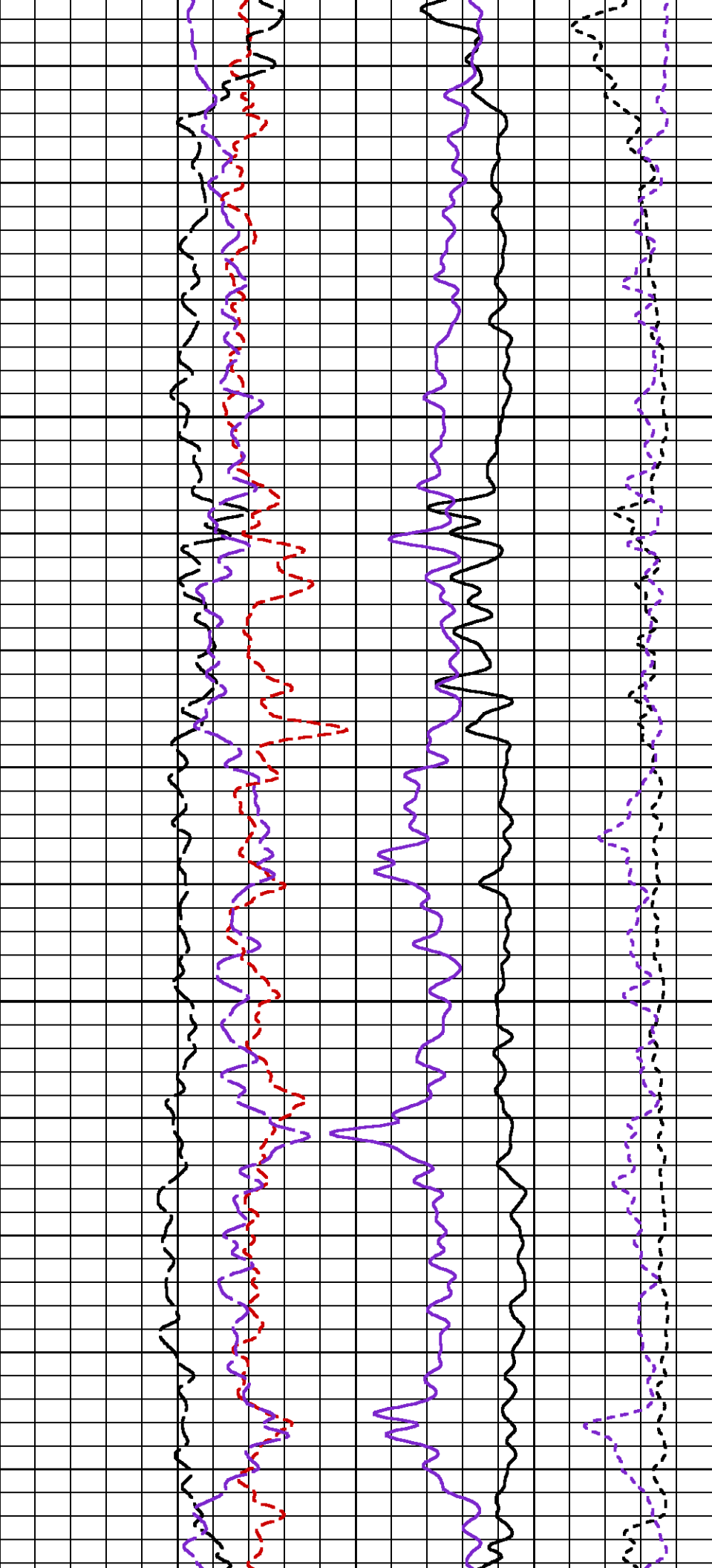


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1775

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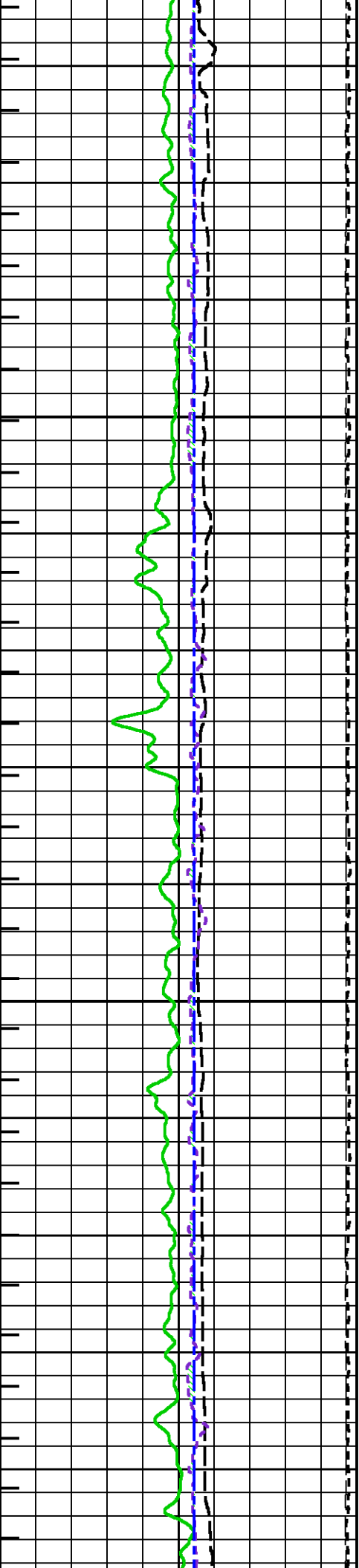


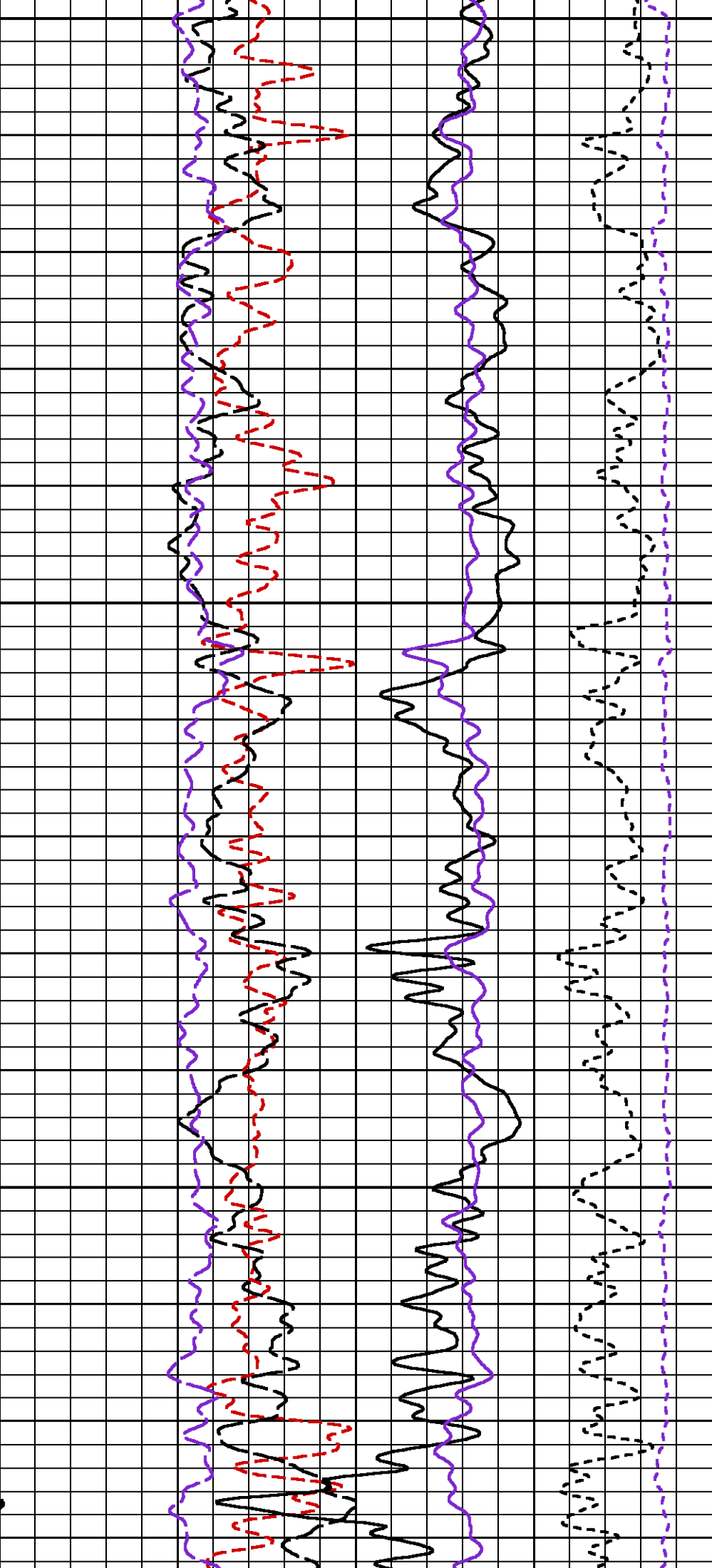


1825

1850

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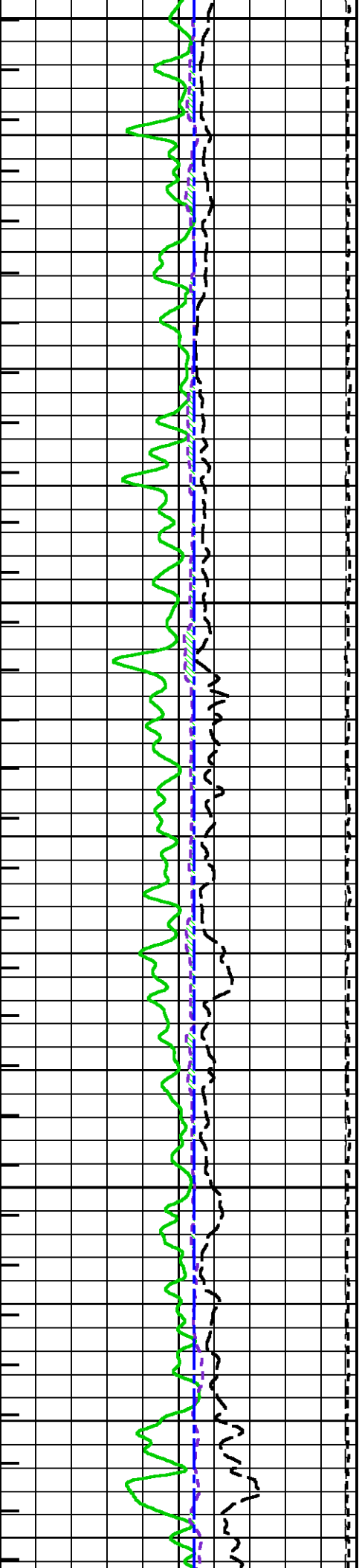


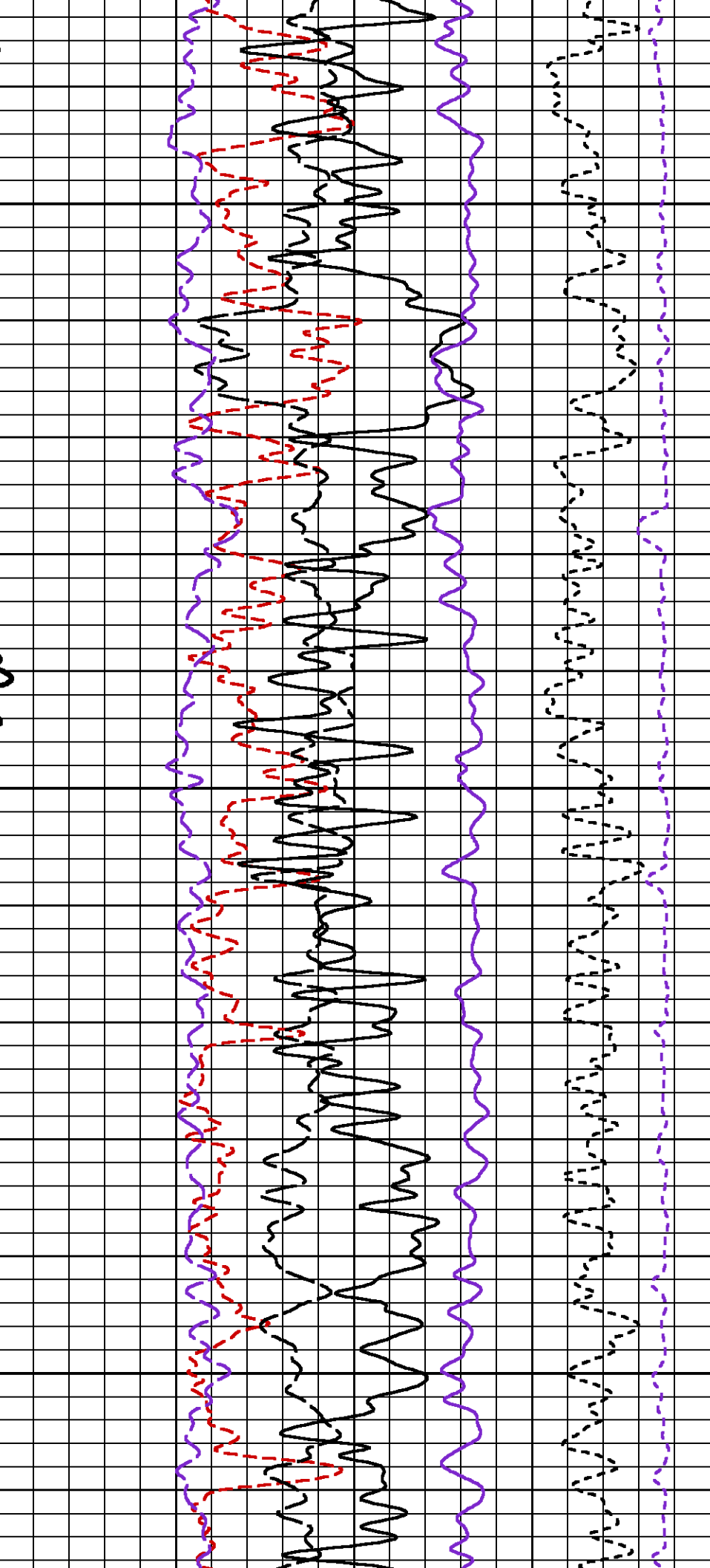


875

1900

1925

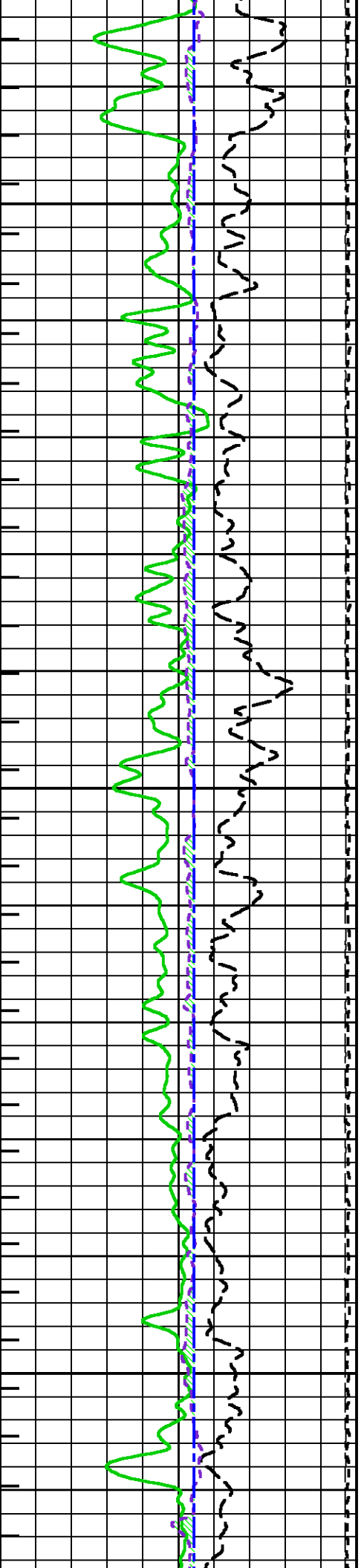


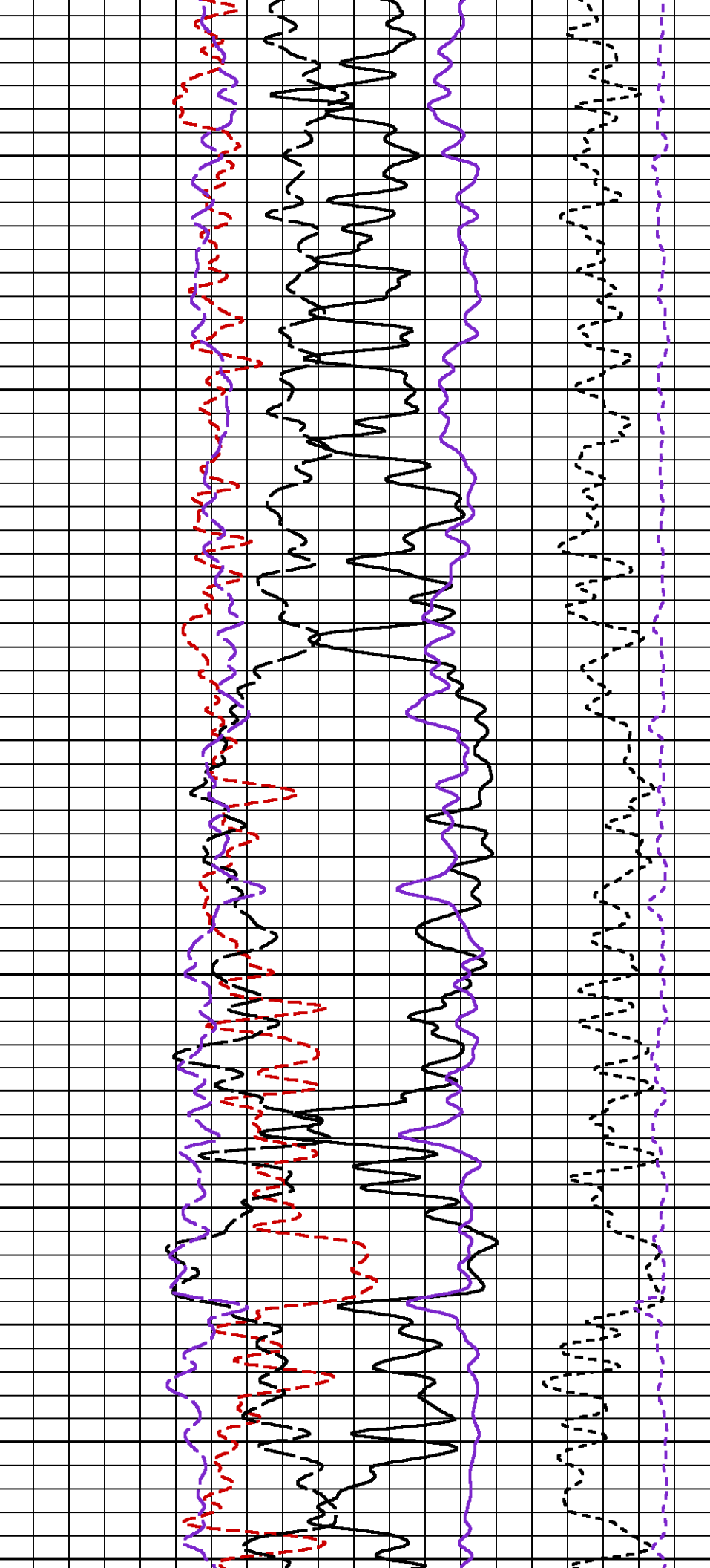


1950

1975

2000

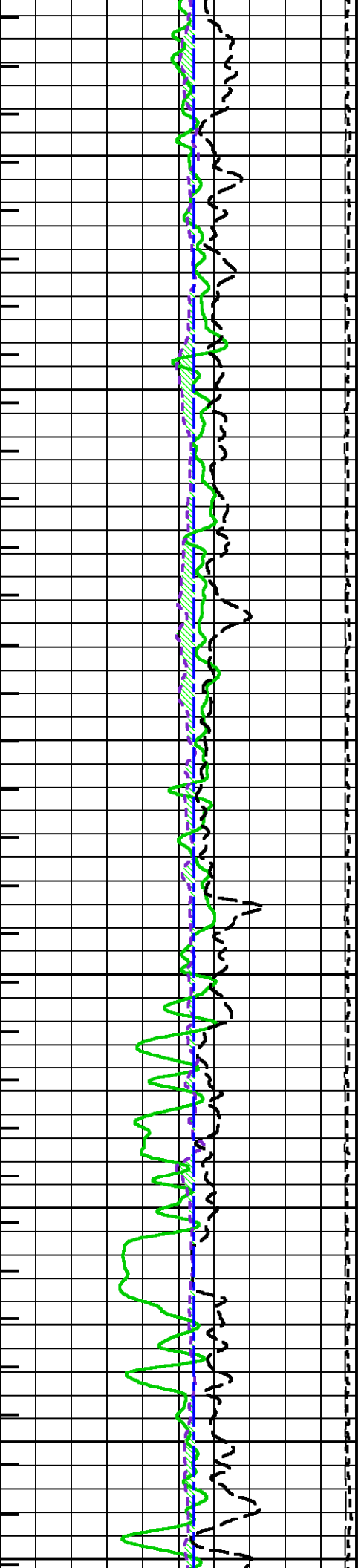


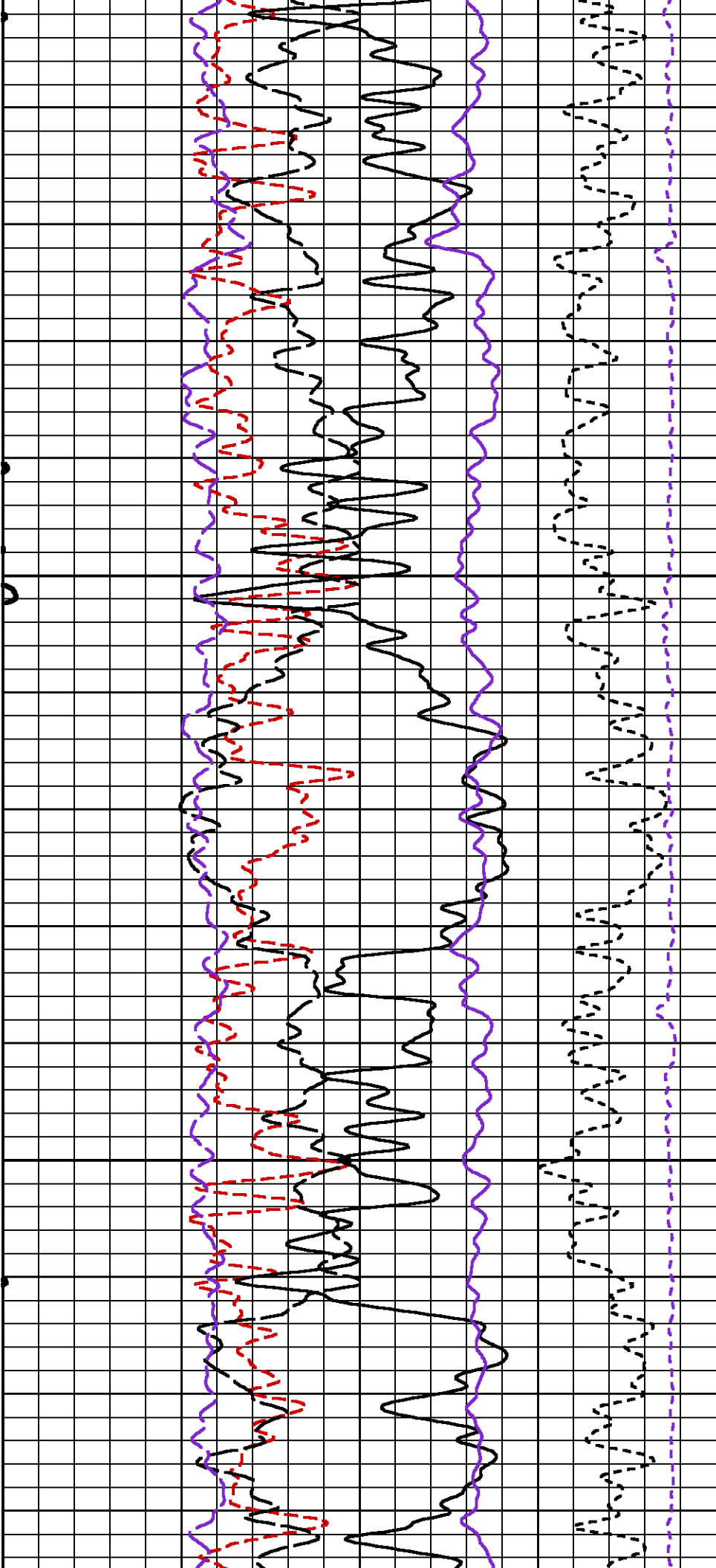


2025

2050

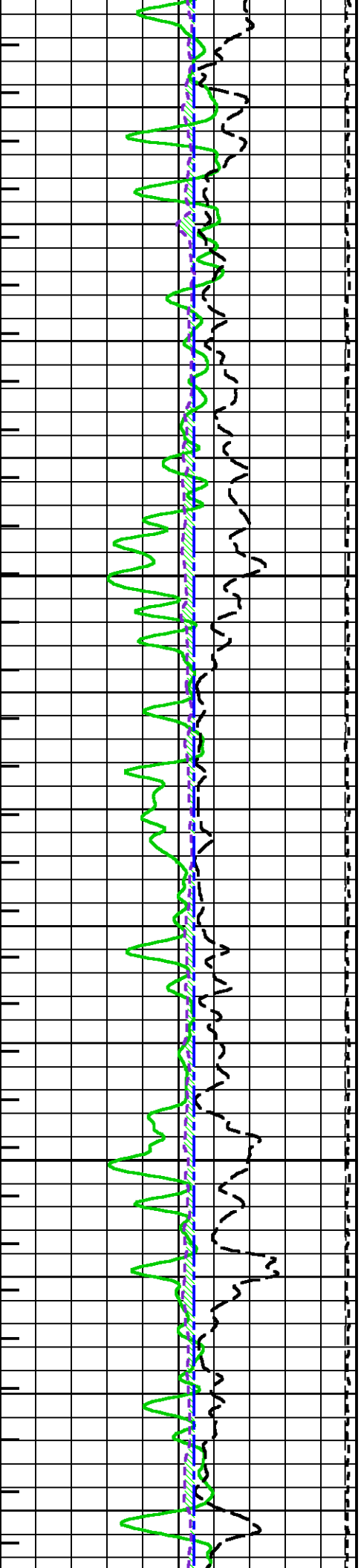
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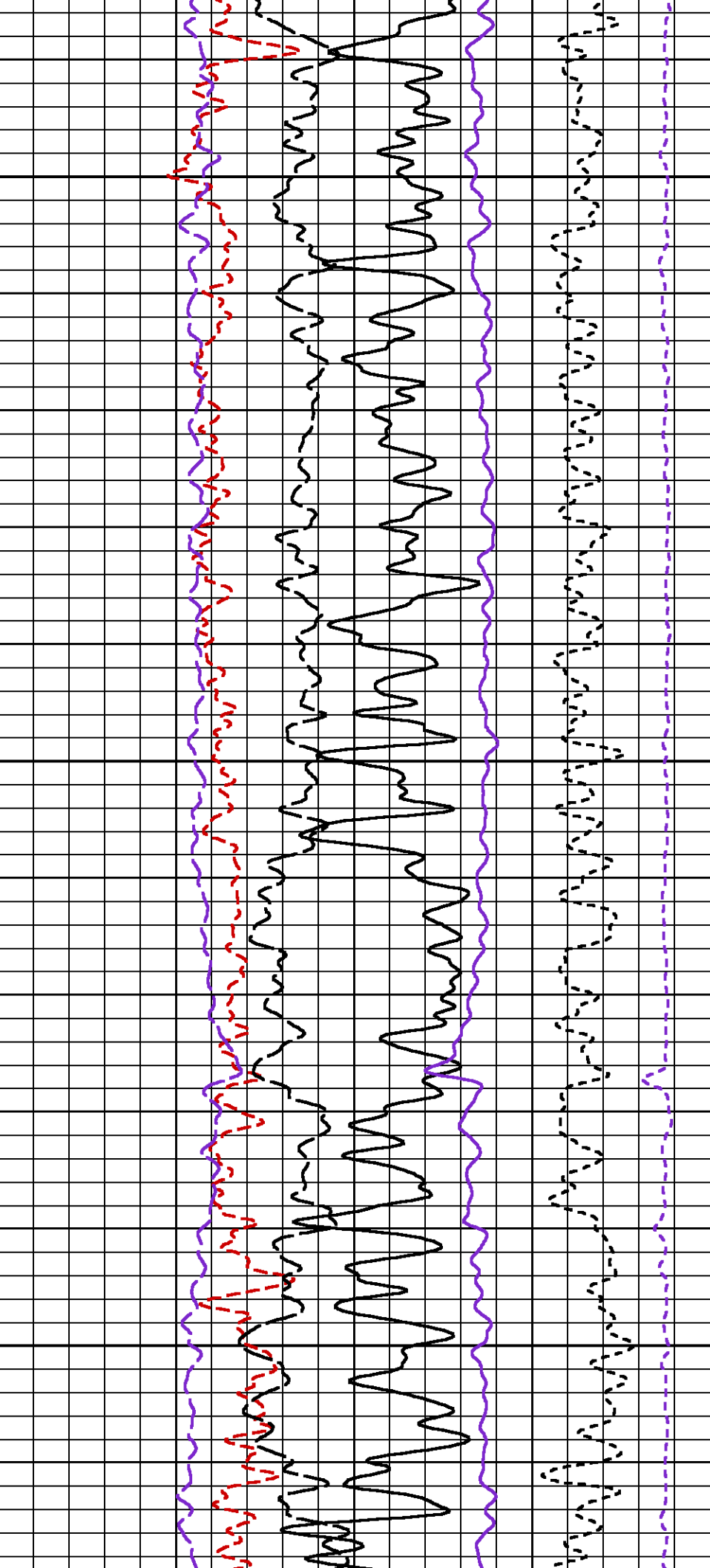




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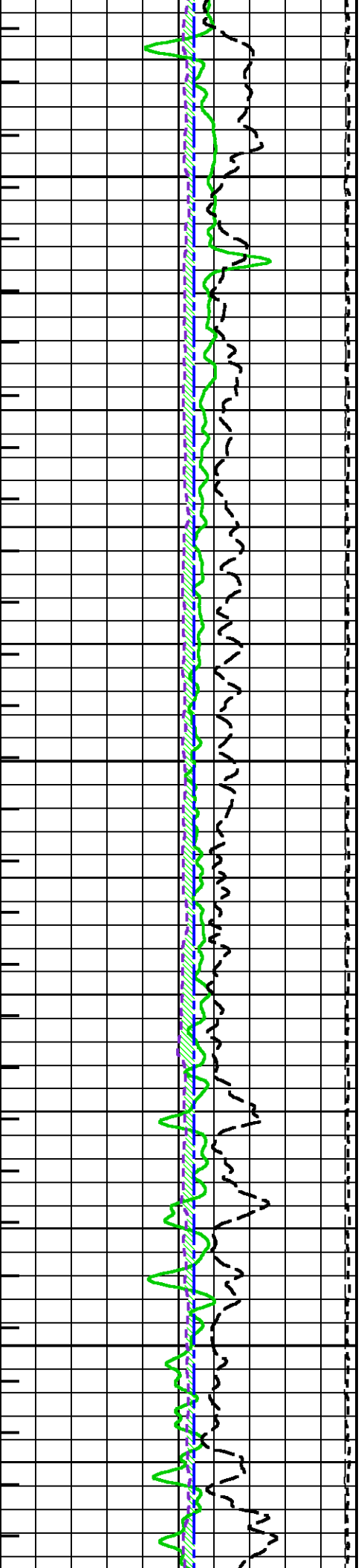


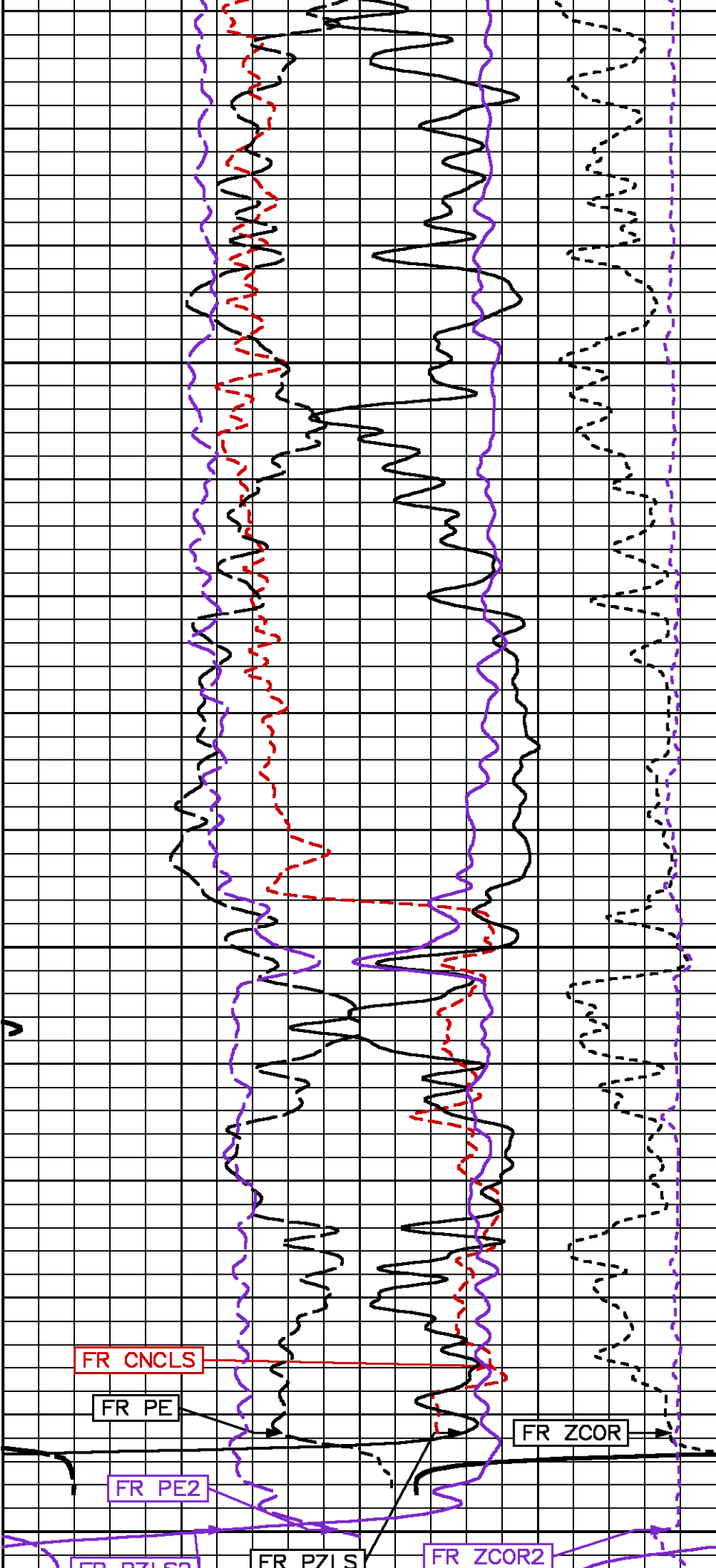


2150

2175

2200

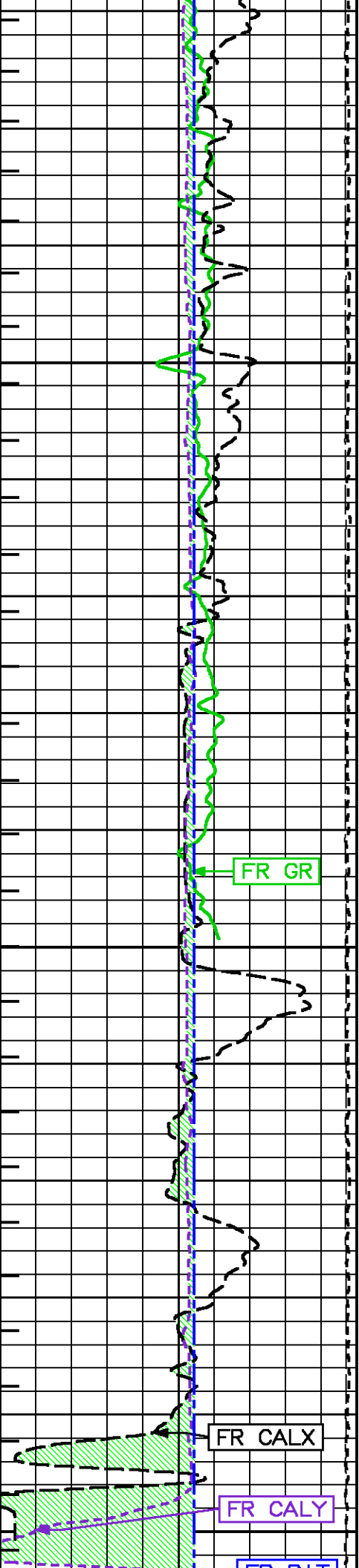


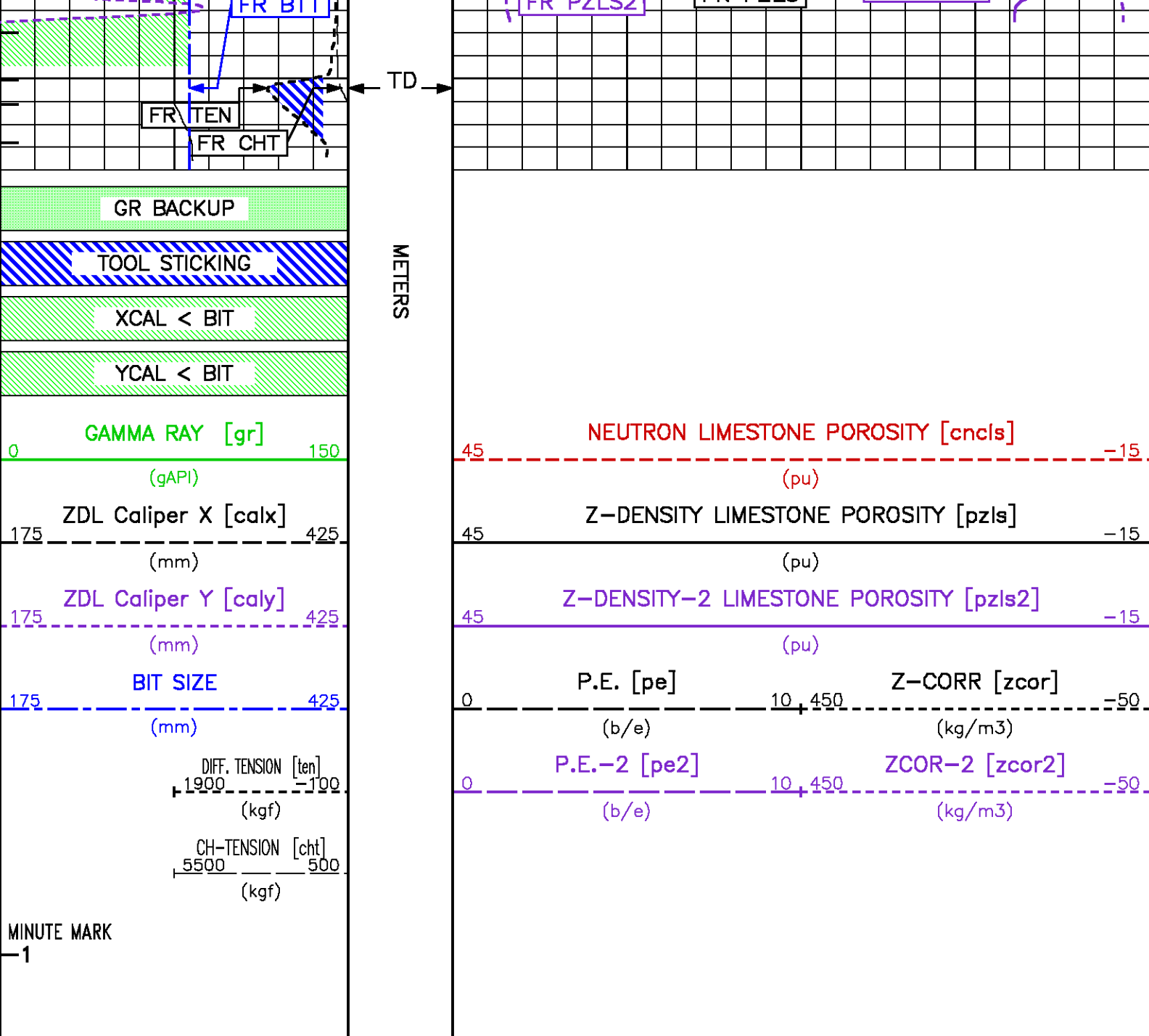


2225

2250

2275





MAIN LOG - SANDSTONE MATRIX

ECLIPS 6.1i Aug 06, 2010
Patches: 1

Wed Nov 3 15:17:42 2010

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.50

PARAMETER AND FILTER SUMMARY REPORT

File: /dat1a/pass/nalcor_run1/m980g03.prm
LOGGING MODE: DEPTH
TOP DEPTH: 542.107 m
DIRECTION: UP
BOTTOM DEPTH: 2283.998 m

SYMMETRIC FILTER

SYMMETRIC FILTER					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
CN MED RES	FILTER ()	medium (1)		"	"
ZDL MED RES	FILTER (hrd1*)	medium		"	"
	FILTER (hrd12*)	medium		"	"
	FILTER (hrd1s*)	medium		"	"
	FILTER (hrd1s2*)	medium		"	"
	FILTER (hrd2*)	medium		"	"
	FILTER (hrd22*)	medium		"	"
	FILTER (hrd2s*)	medium		"	"
	FILTER (hrd2s2*)	medium		"	"
	FILTER (soft*)	medium		"	"
	FILTER (soft2*)	medium		"	"

BOREHOLE & CEMENT					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	244.500	mm	TOP	BOTTOM
	CASING THICKNESS	0.000	mm	"	"
BIT SIZE	BIT SIZE	311.000	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	311.000	mm	"	"
X-Y COMBINED CALIPER PROCESSING-FOCM5Y	Caliper - FOCUS	Y-Axis		"	"

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

CN PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CN BOREHOLE CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
	BOREHOLE CORRECTION	ON		"	"
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE BEHIND CSNG	444.500	mm	"	"

ZDL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DENSITY POROSITY	Air Filled Borehole	NO		TOP	BOTTOM
	RHOfluid	1.000	g/cm3	"	"
	RHOmatrix (sand)	2.650	g/cm3	"	"

CURVE DESCRIPTION REPORT			
CURVE NAME	CREATION DATE	CURVE DESCRIPTION	
F1:BIT	Nov 3 01:15:13 2010	BIT SIZE	
F1:CALX	Nov 3 01:15:13 2010	CALIPER FROM X-AXIS OF XY CALIPER(S)	
F1:CALY	Nov 3 01:15:13 2010	CALIPER FROM Y-AXIS OF XY CALIPER(S)	
F1:CHT	Nov 3 01:15:13 2010	CABLE HEAD TENSION	
F1:CNCSS	Nov 3 01:15:13 2010	BOREHOLE SIZE CORRECTED SANDSTONE COMPENSATED NEU POROSITY	
F1:GR	Nov 3 01:15:13 2010	GAMMA RAY	
F1:MMRK	Nov 3 01:15:13 2010	MINUTE MARK	
F1:PE	Nov 3 01:15:13 2010	PHOTO ELECTRIC CROSS-SECTION	
F1:PE2	Nov 3 01:15:13 2010	PHOTOELECTRIC CROSS-SECTION (2ND TOOL)	
F1:PZSS	Nov 3 01:15:13 2010	POROSITY FOR SANDSTONE MATRIX	
F1:PZSS2	Nov 3 01:15:13 2010	POROSITY FOR SANDSTONE MATRIX (2ND TOOL)	
F1:TEN	Nov 3 01:15:13 2010	DIFFERENTIAL TENSION	
F1:ZCOR	Nov 3 01:15:13 2010	DENSITY CORRECTION	
F1:ZCOR2	Nov 3 01:15:13 2010	DENSITY CORRECTION (2ND TOOL)	

CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CNCSS	12.50	PZSS	9.64	ZCOR2	5.49
CALX	9.64	GR	33.68	PZSS2	5.49		

CALY	5.49	PE	9.64	TEN	0.00
CHT	0.00	PE2	5.49	ZCOR	9.64

Presentation
: cpu1:/dat1a/pass/nalcor_run1/zdl2_main_ss.pdf [1:240 Scale]

Plot Interval
: 545 - 2283.94 Meters

Data File 1
: F1 : cpu1:/dat1a/pass/nalcor_run1/r1t2_main.xtf

Created On
: Nov 3 01:15:13 2010

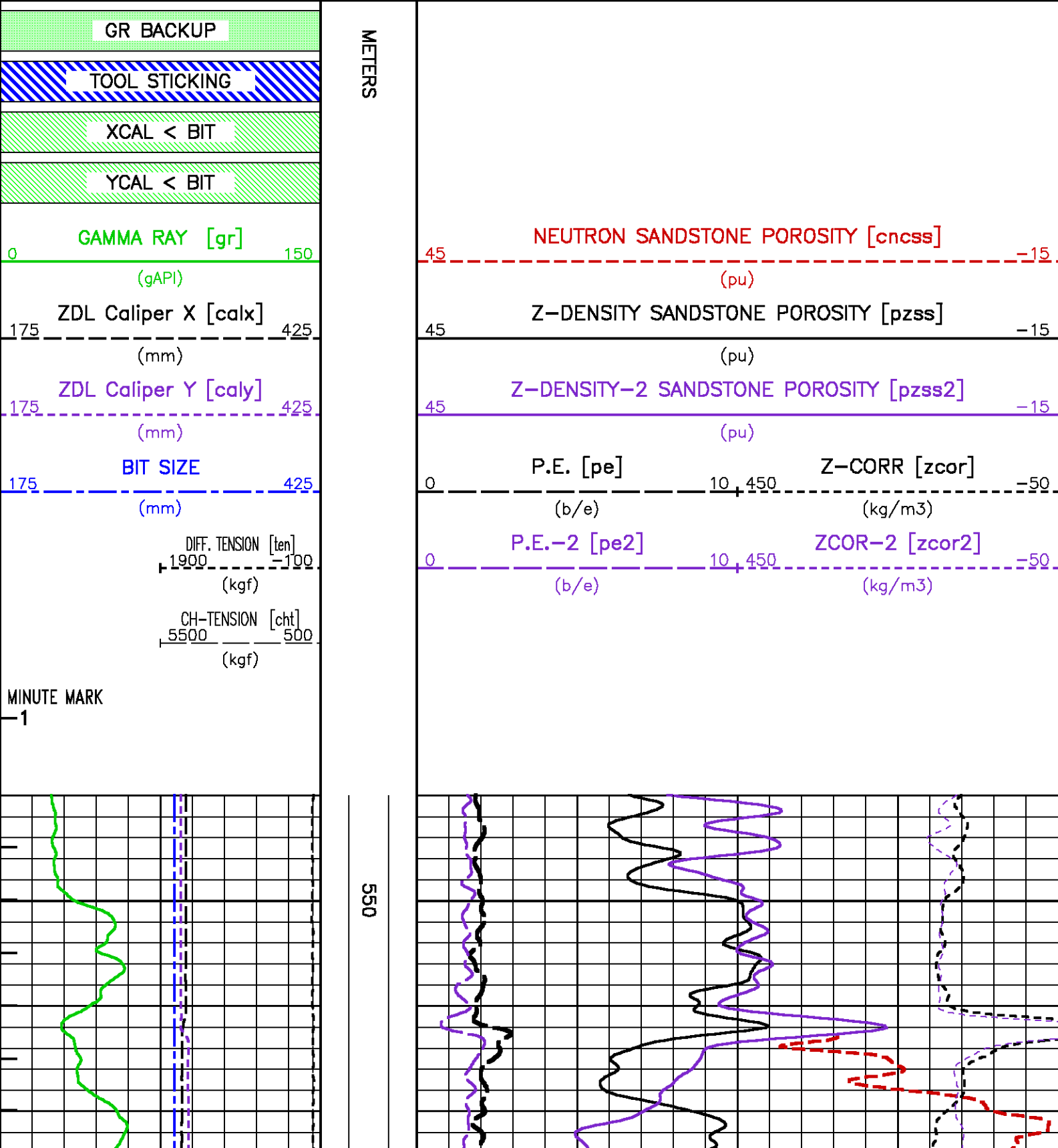
Company
: NALCOR ENERGY

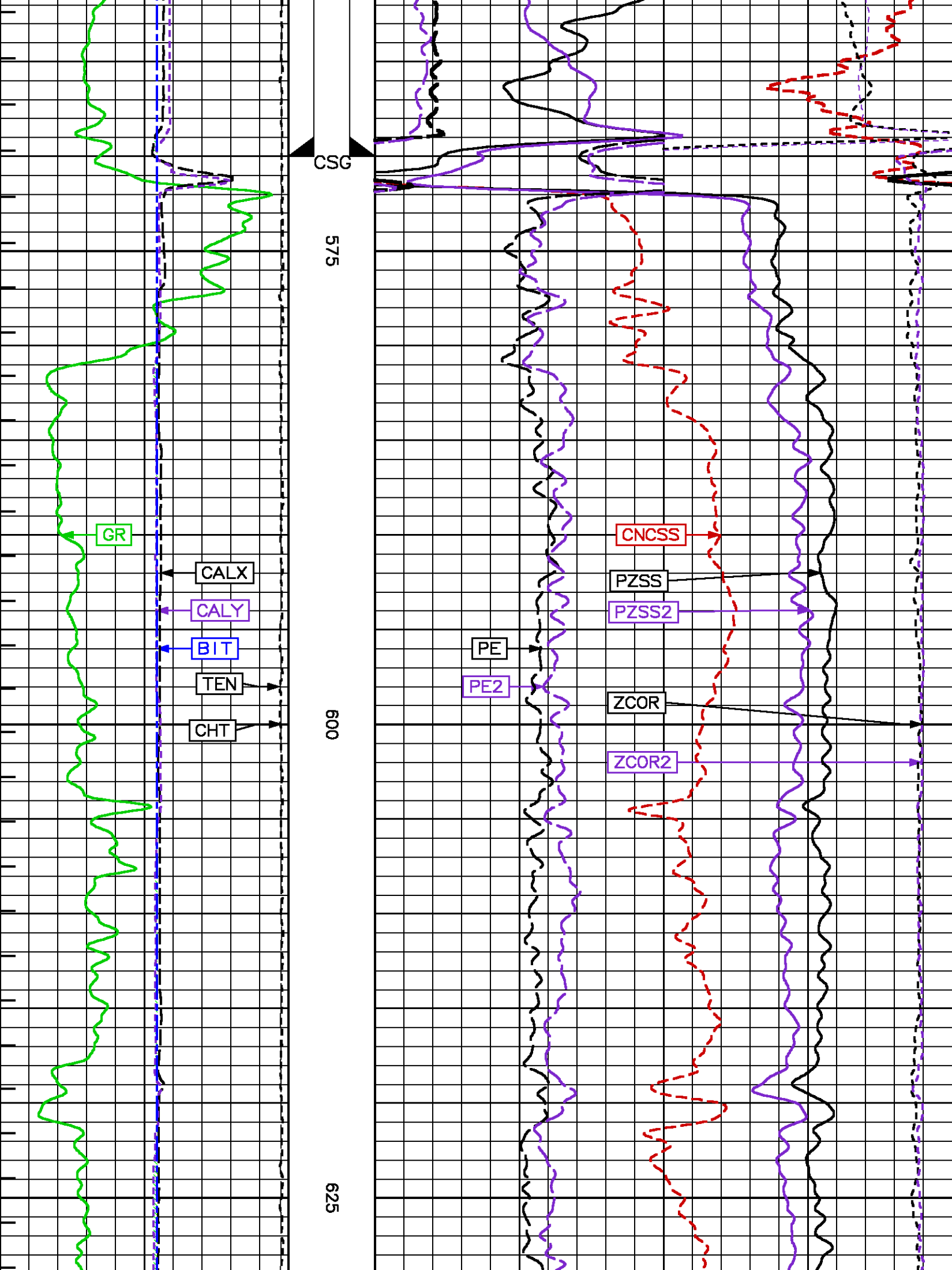
Well
: NALCOR ET AL FINNEGAN 31

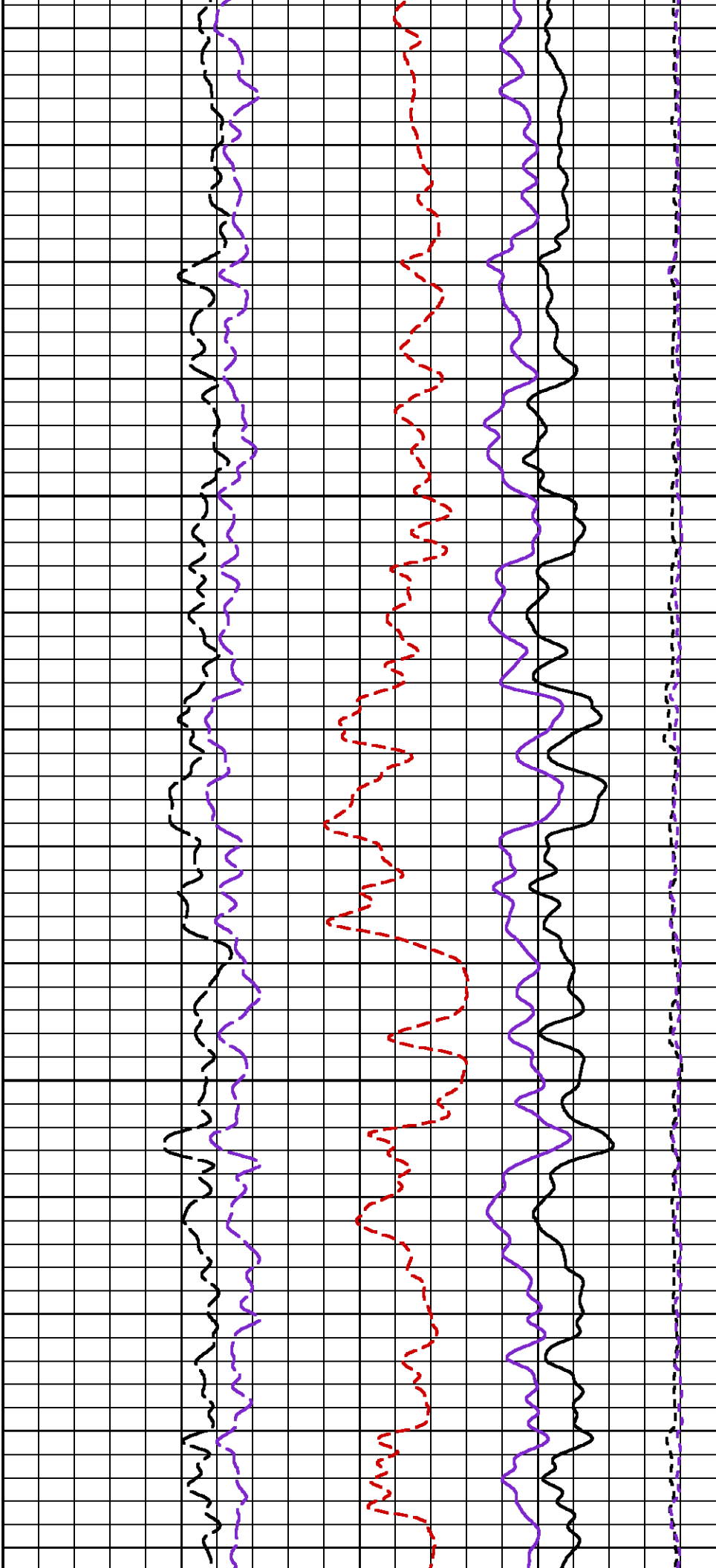
Field
: FINNEGAN

File Interval
: 504.749 - 2283.98 Meters

Oct
: m980g

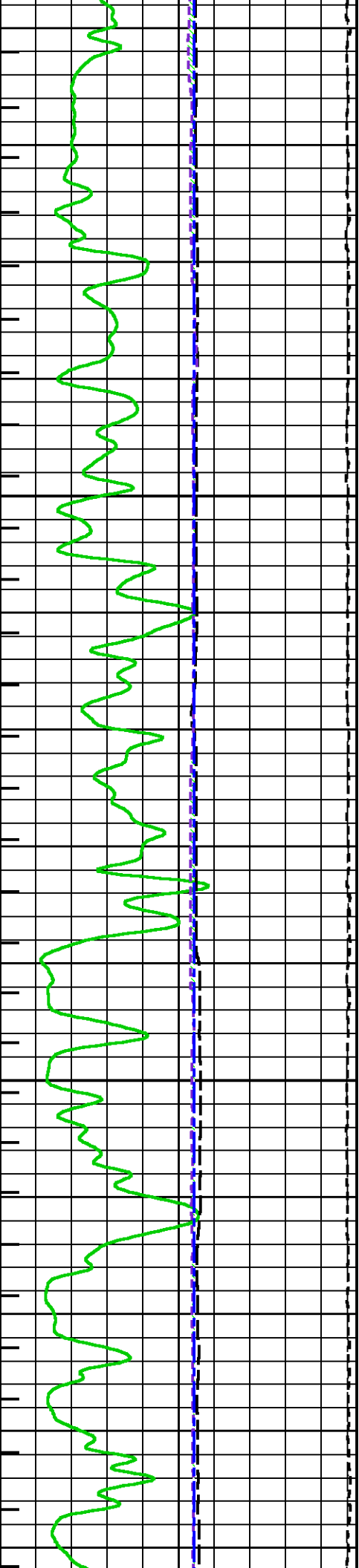


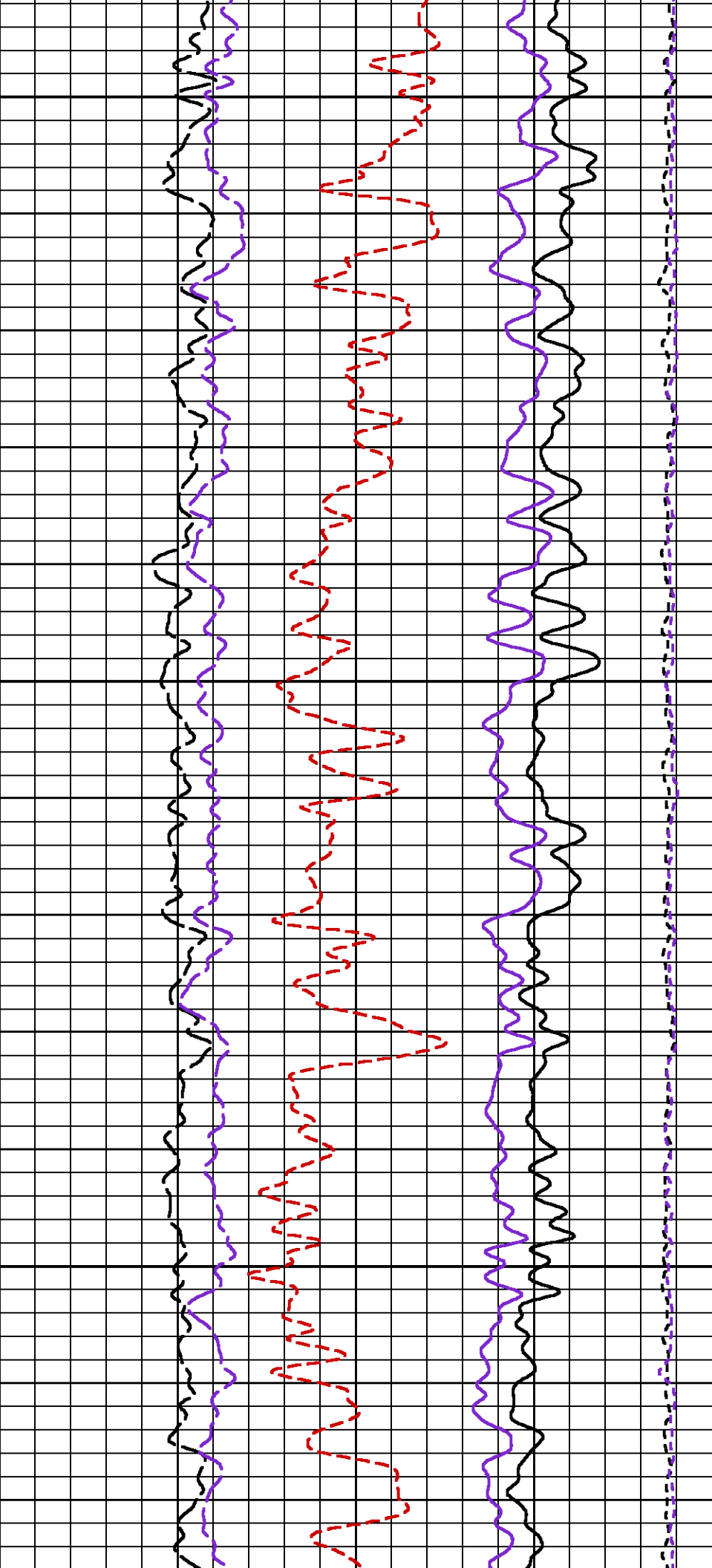




650

675

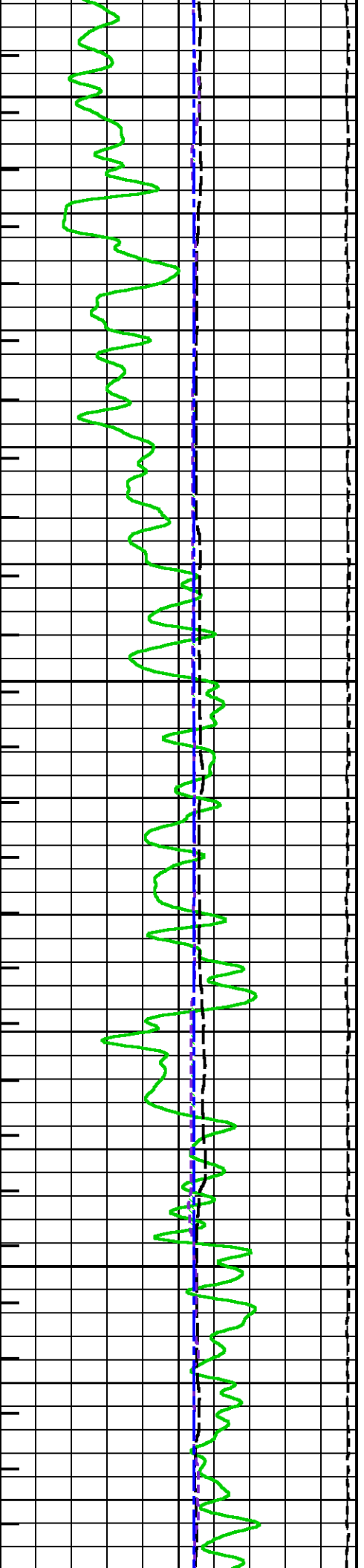


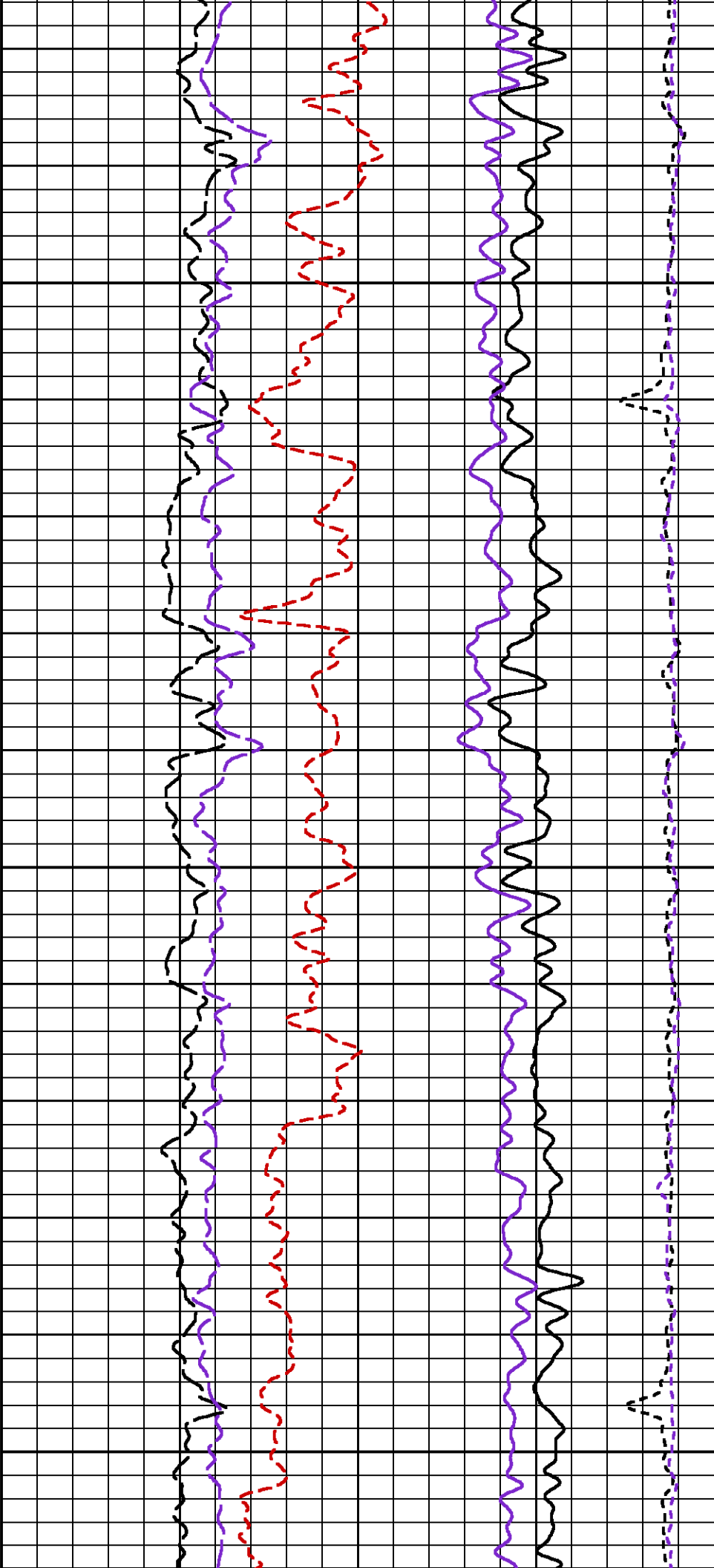


700

725

750

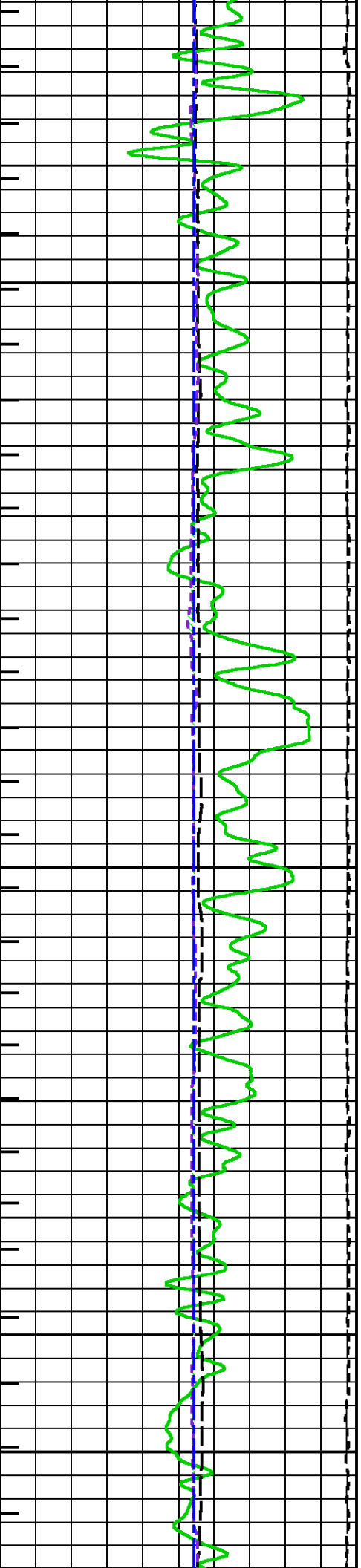


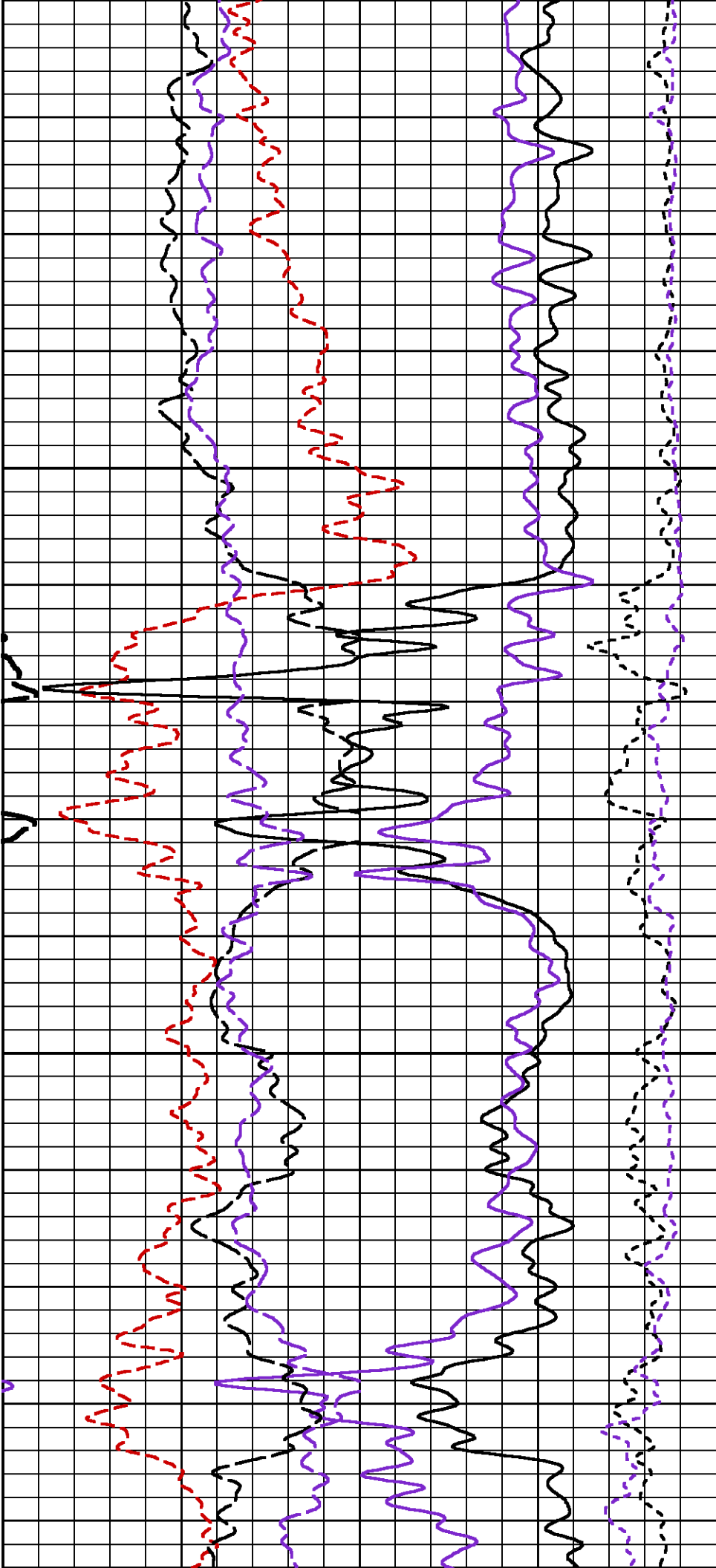


775

800

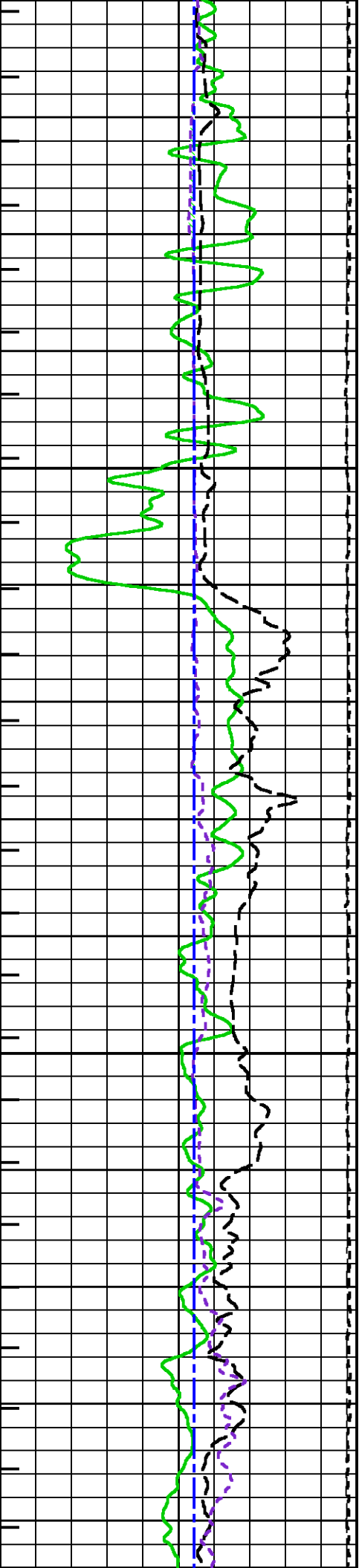
825

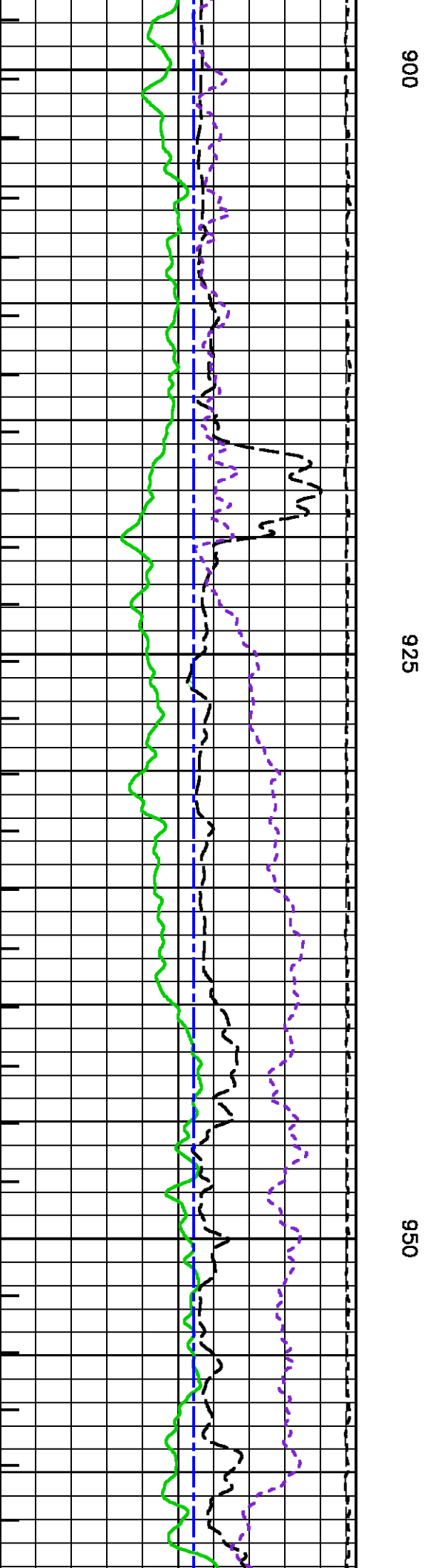
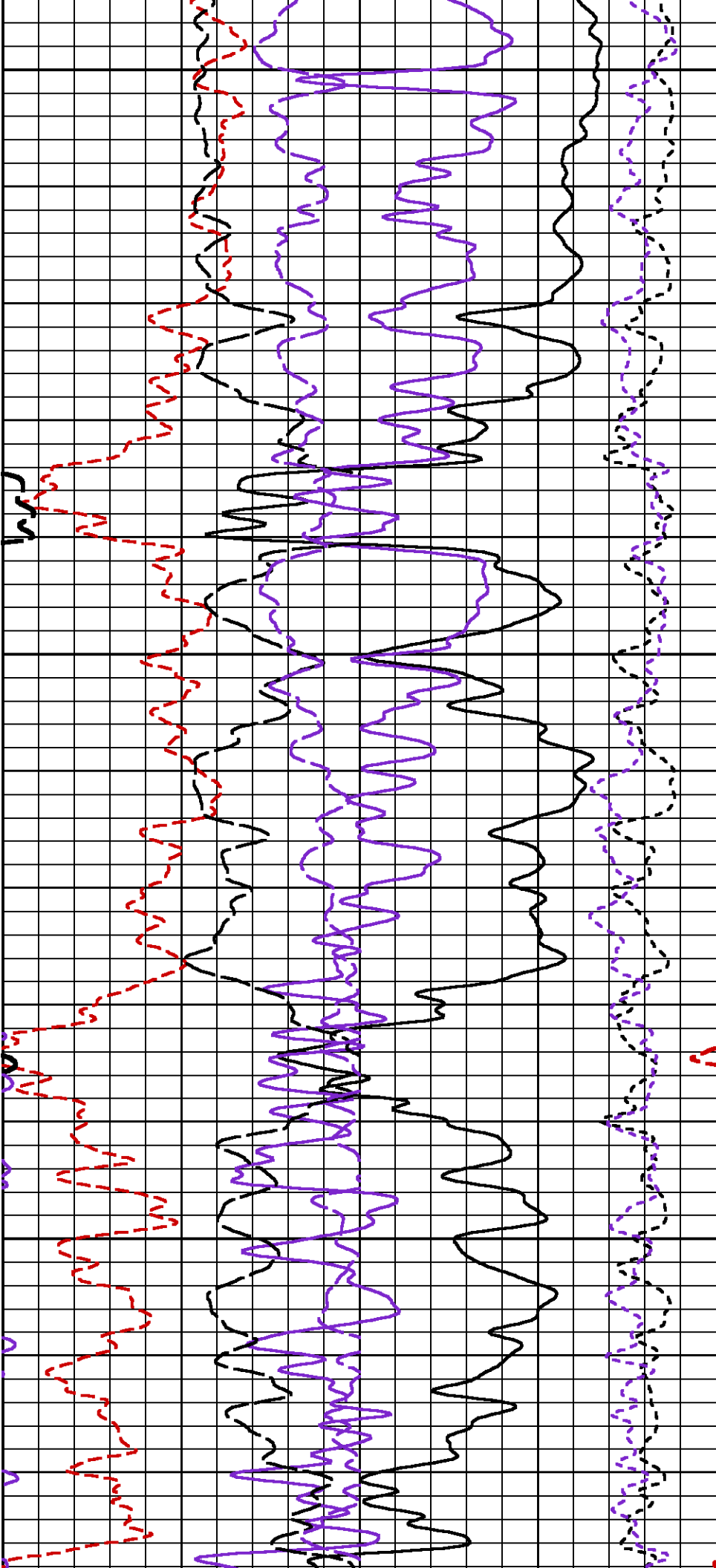


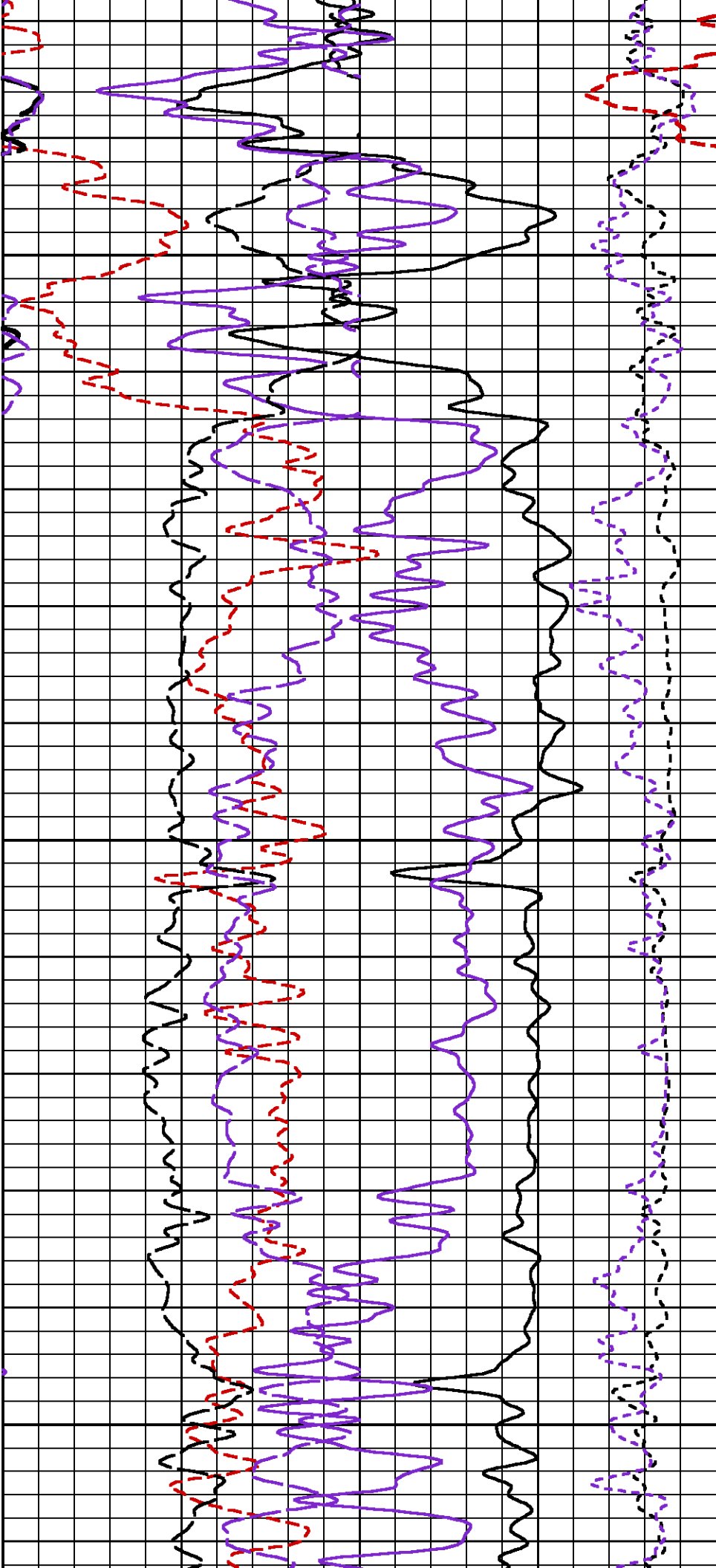


850

875



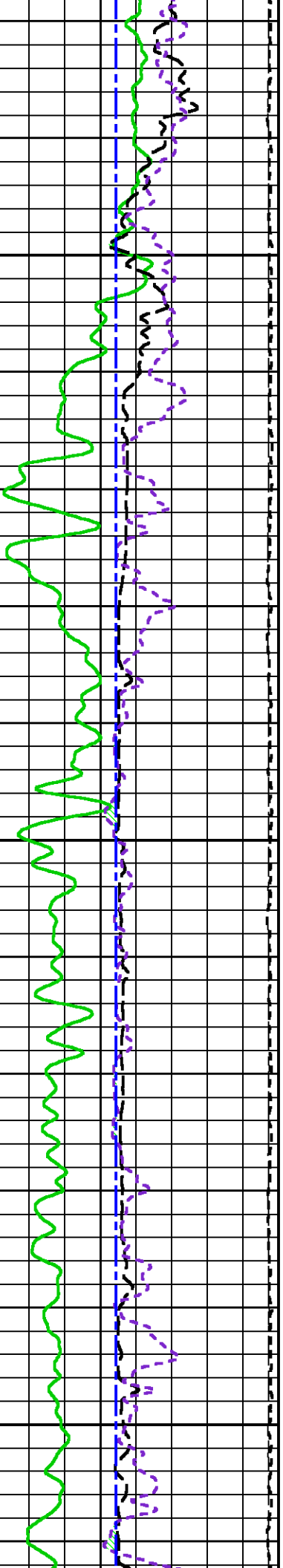


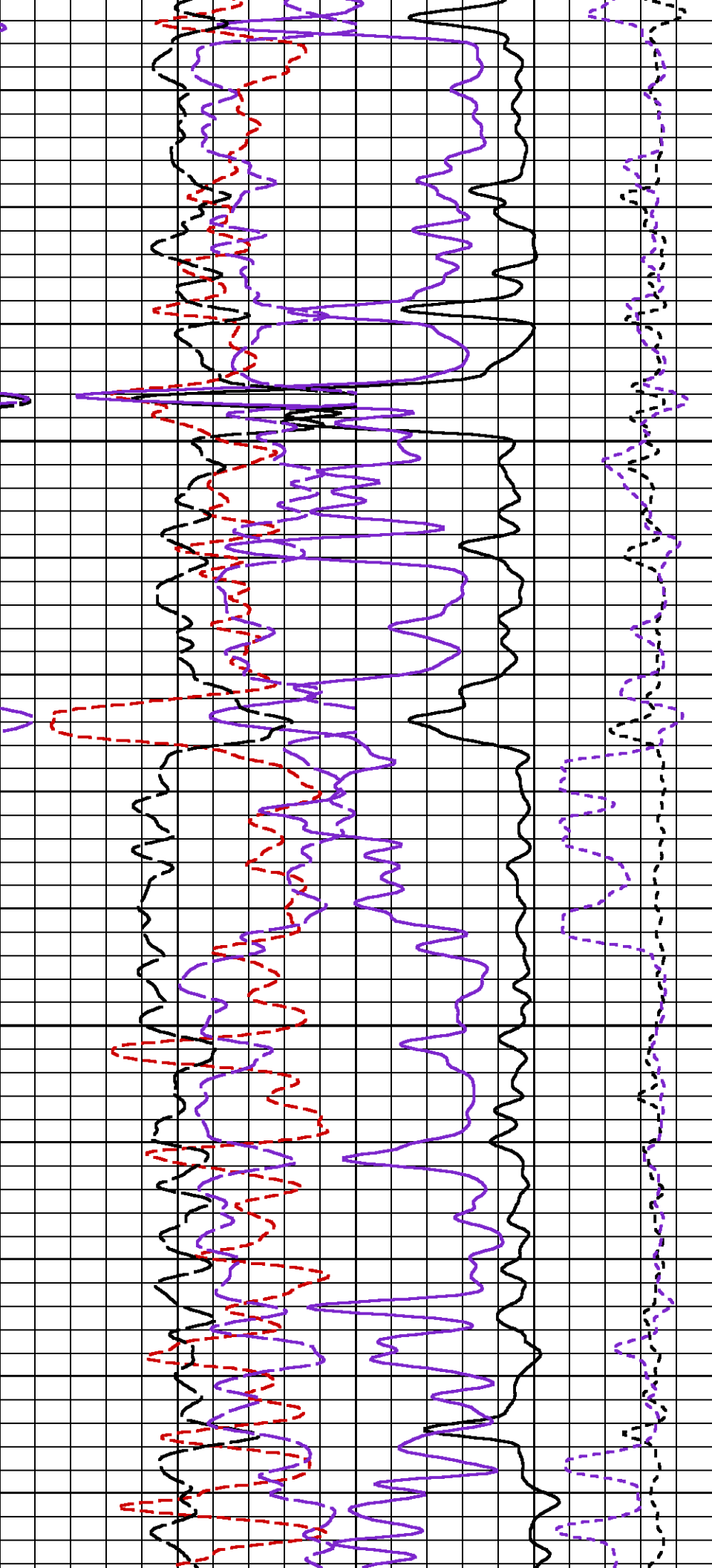


975

1000

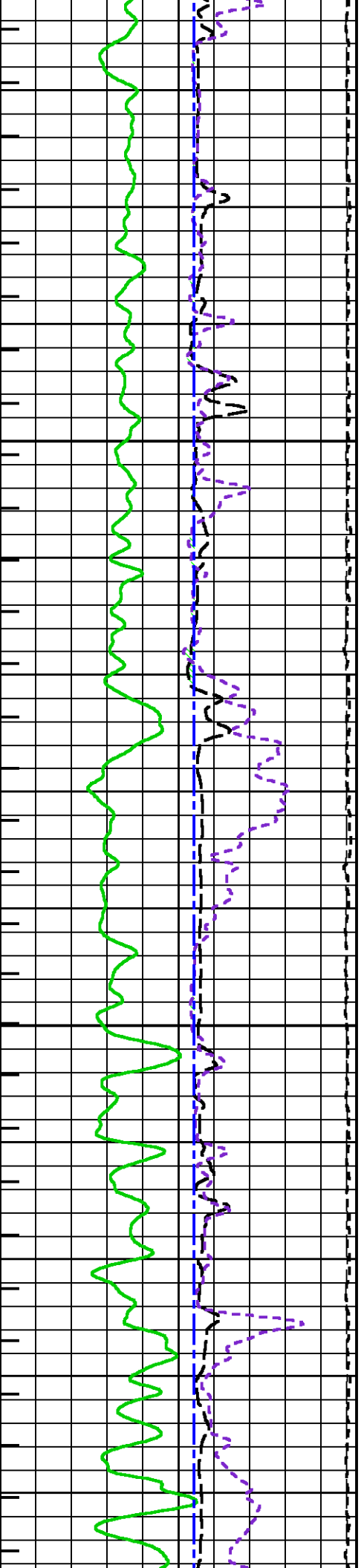
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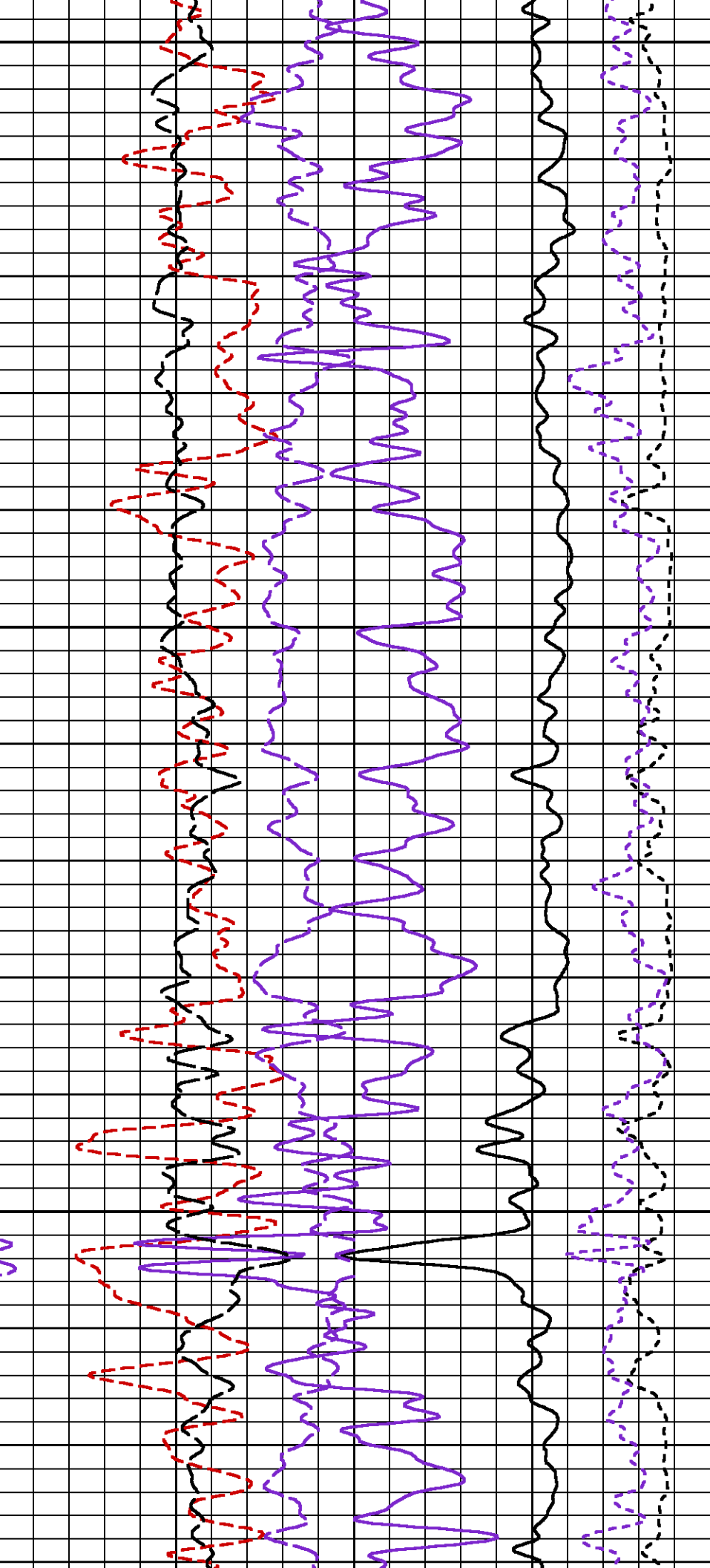




1050

1075

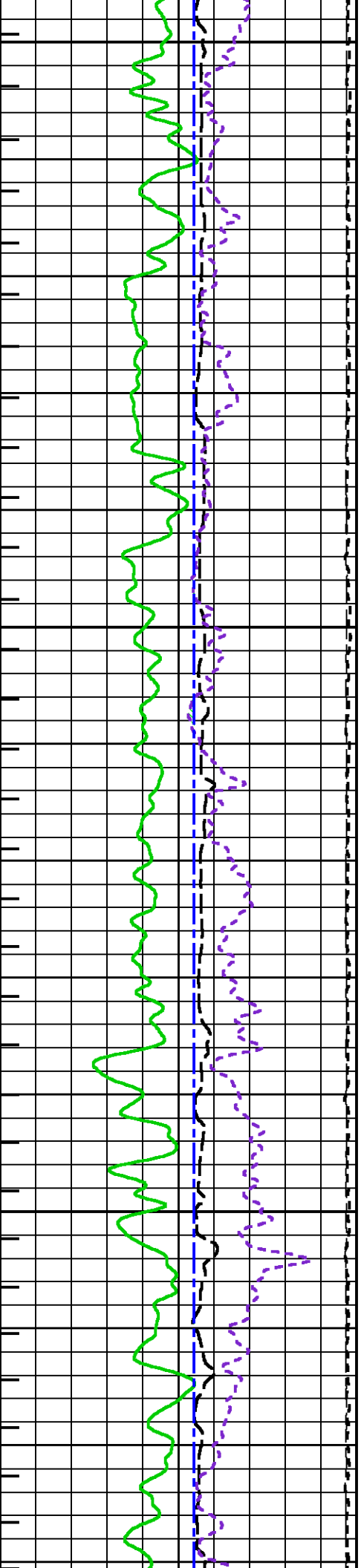


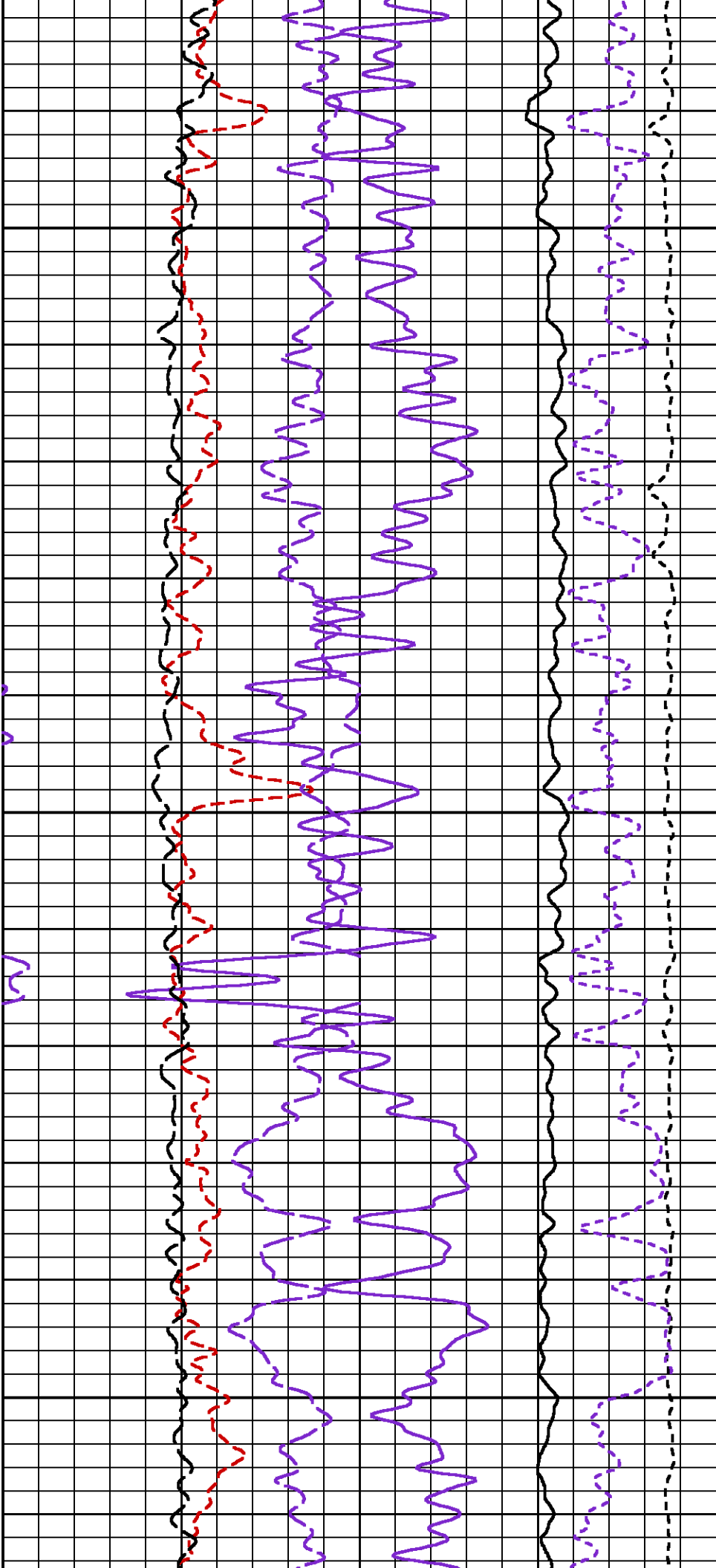


1100

1125

1150

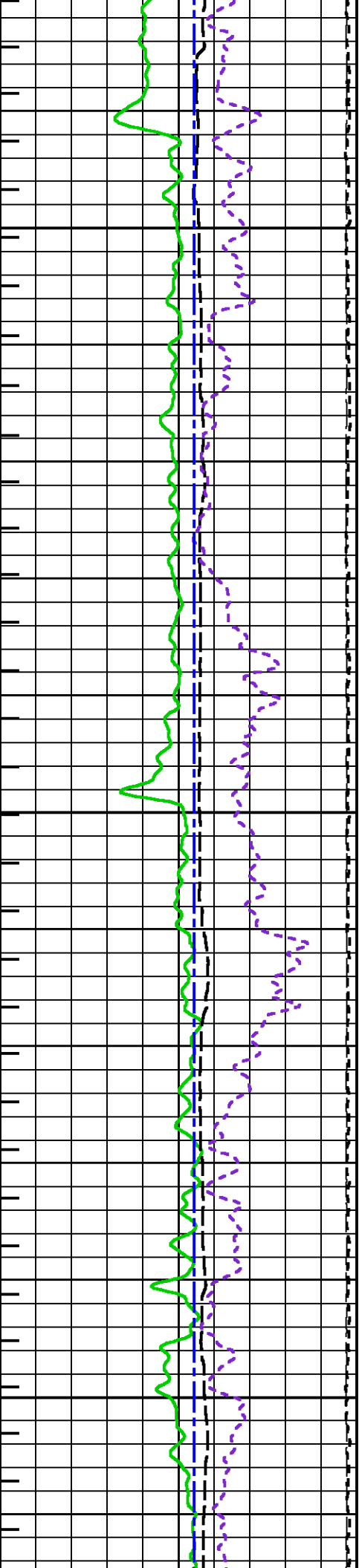


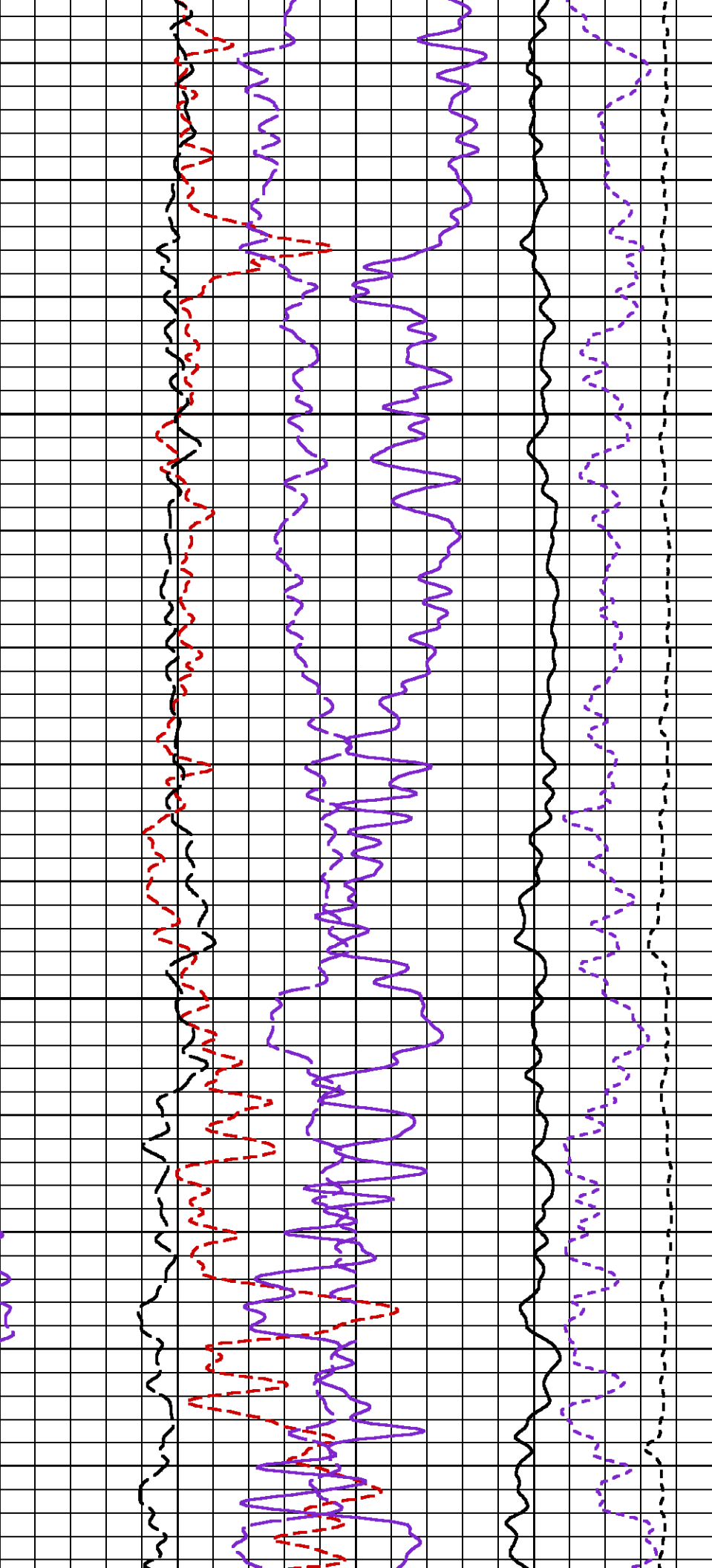


1175

1200

1225

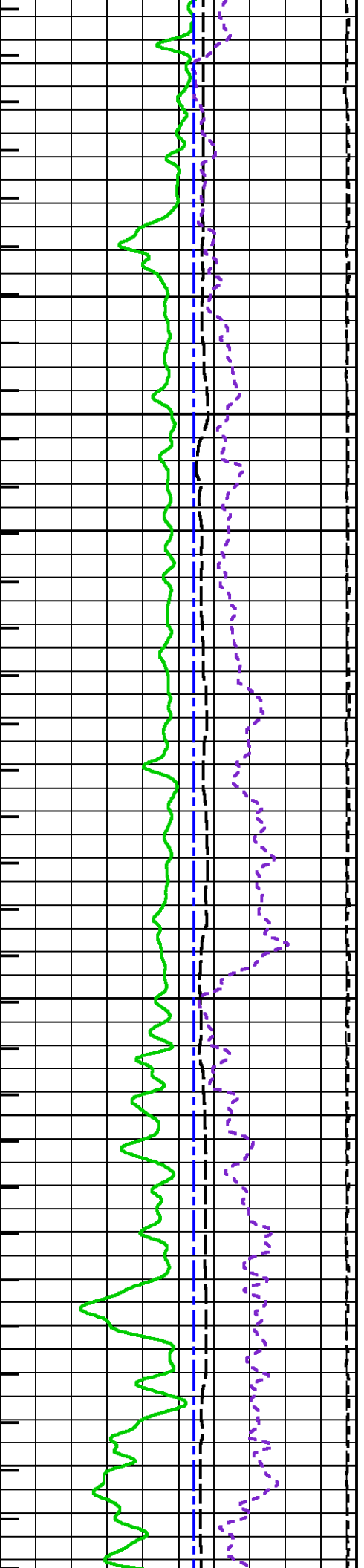


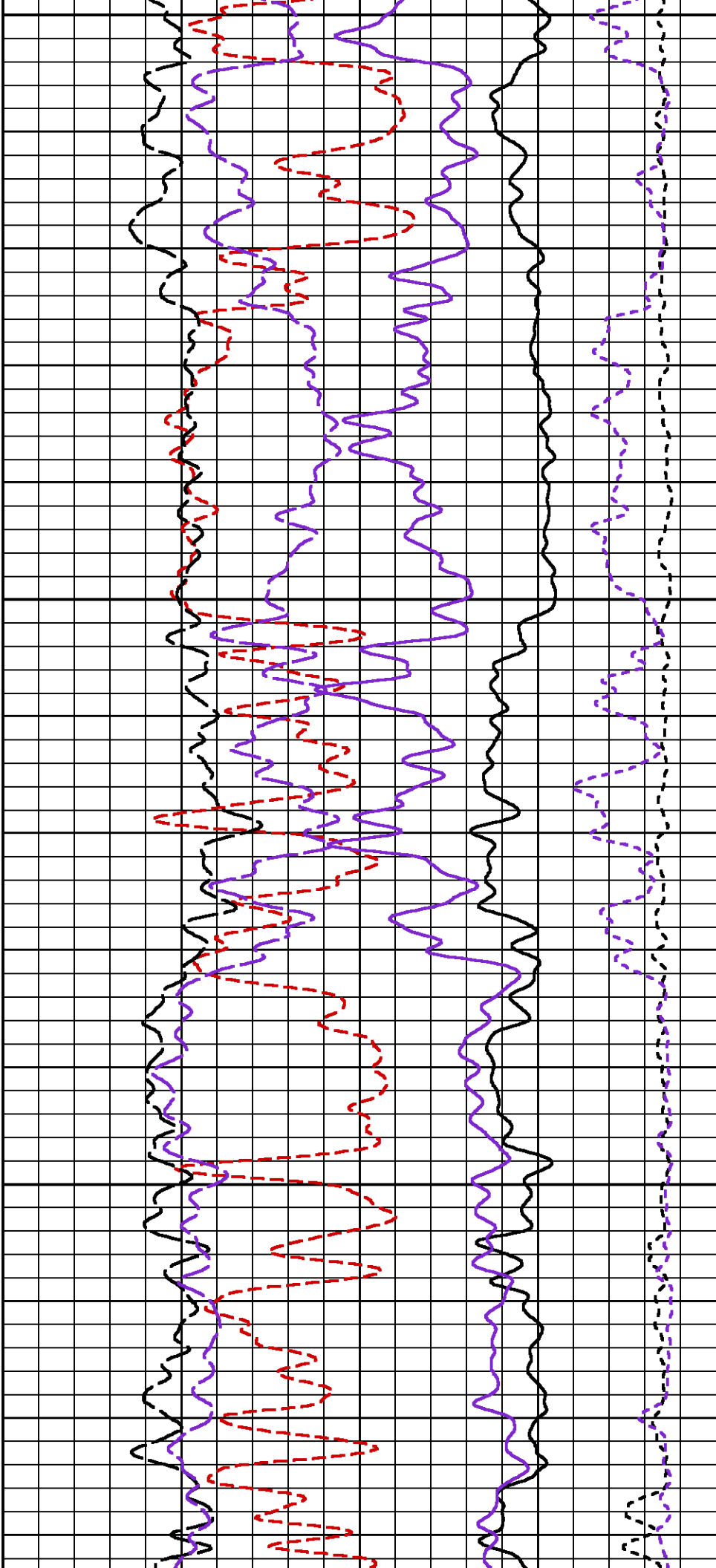


1250

1275

1

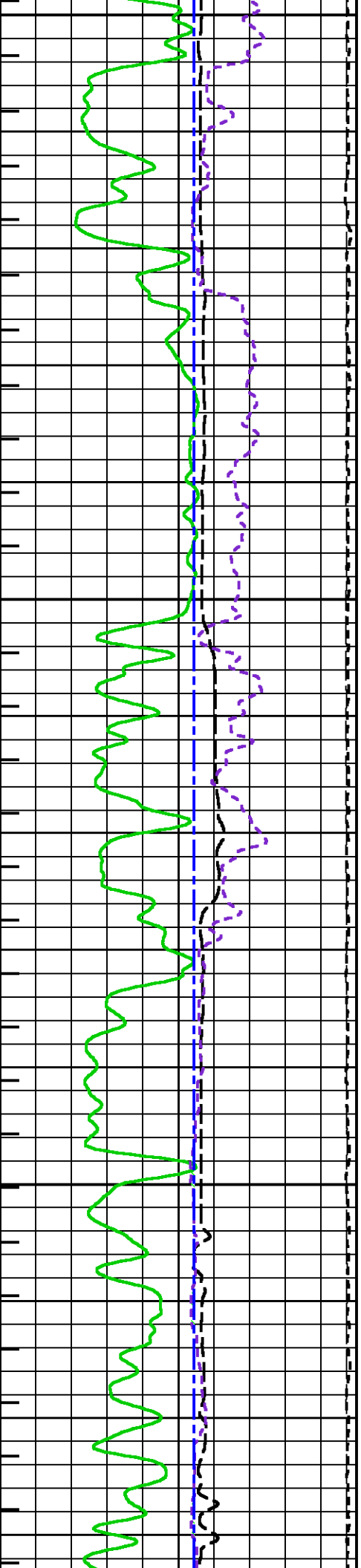


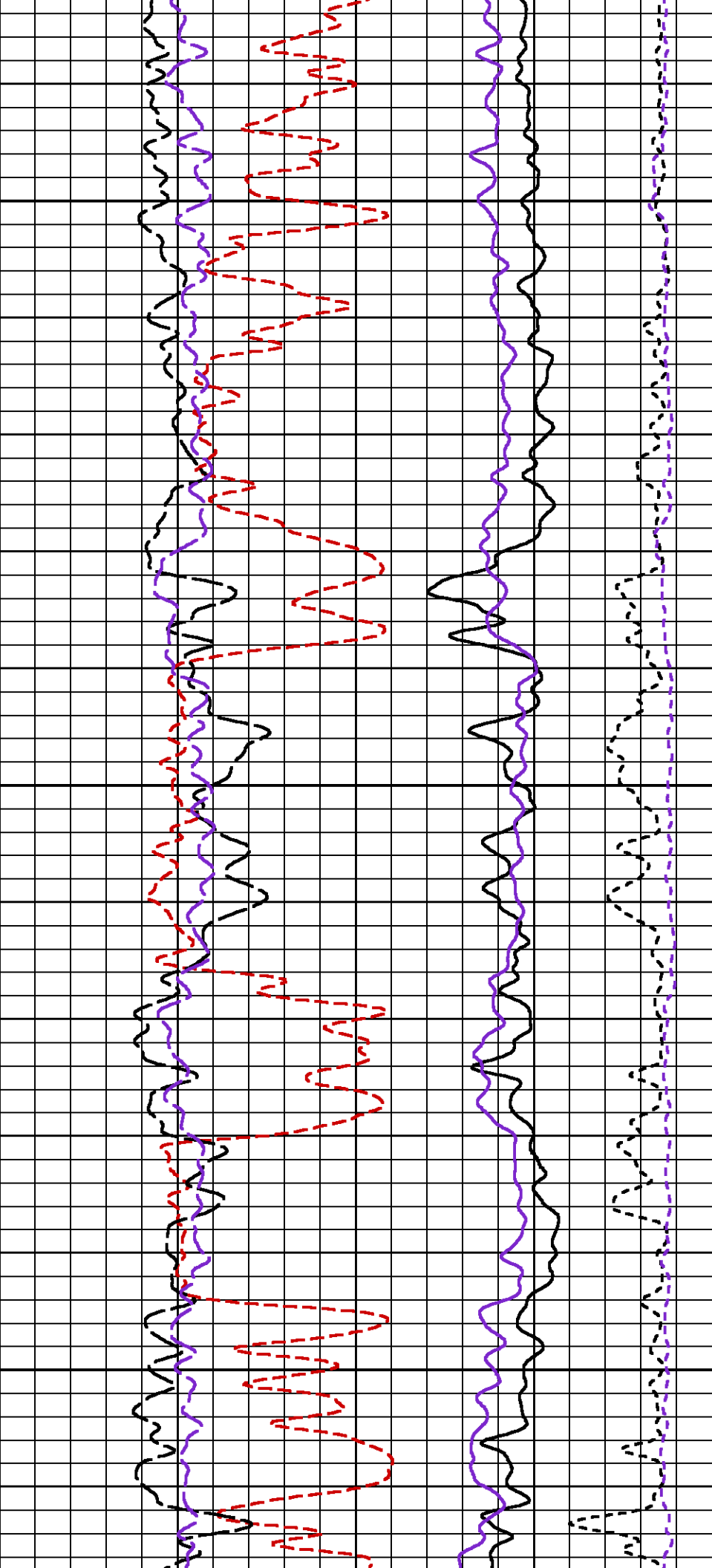


300

1325

1350

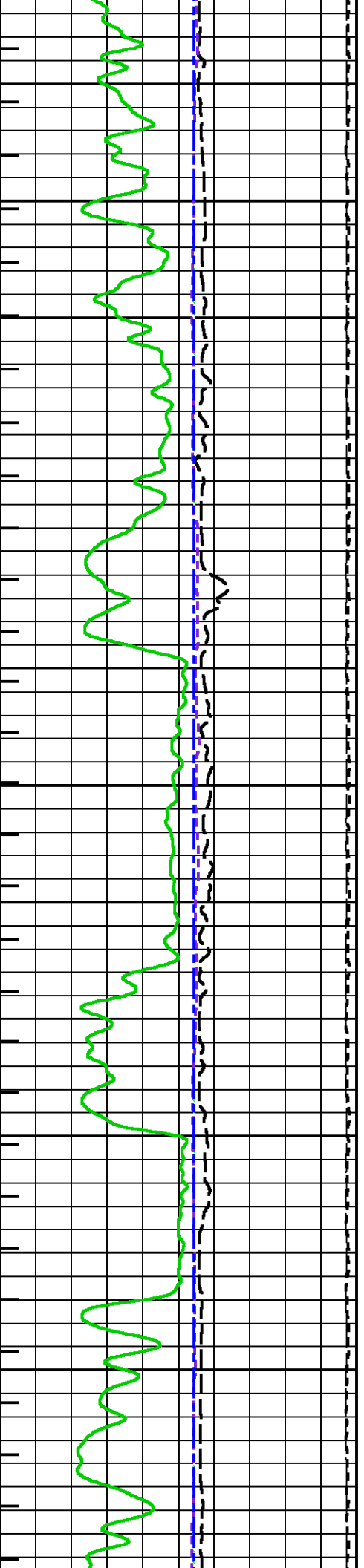


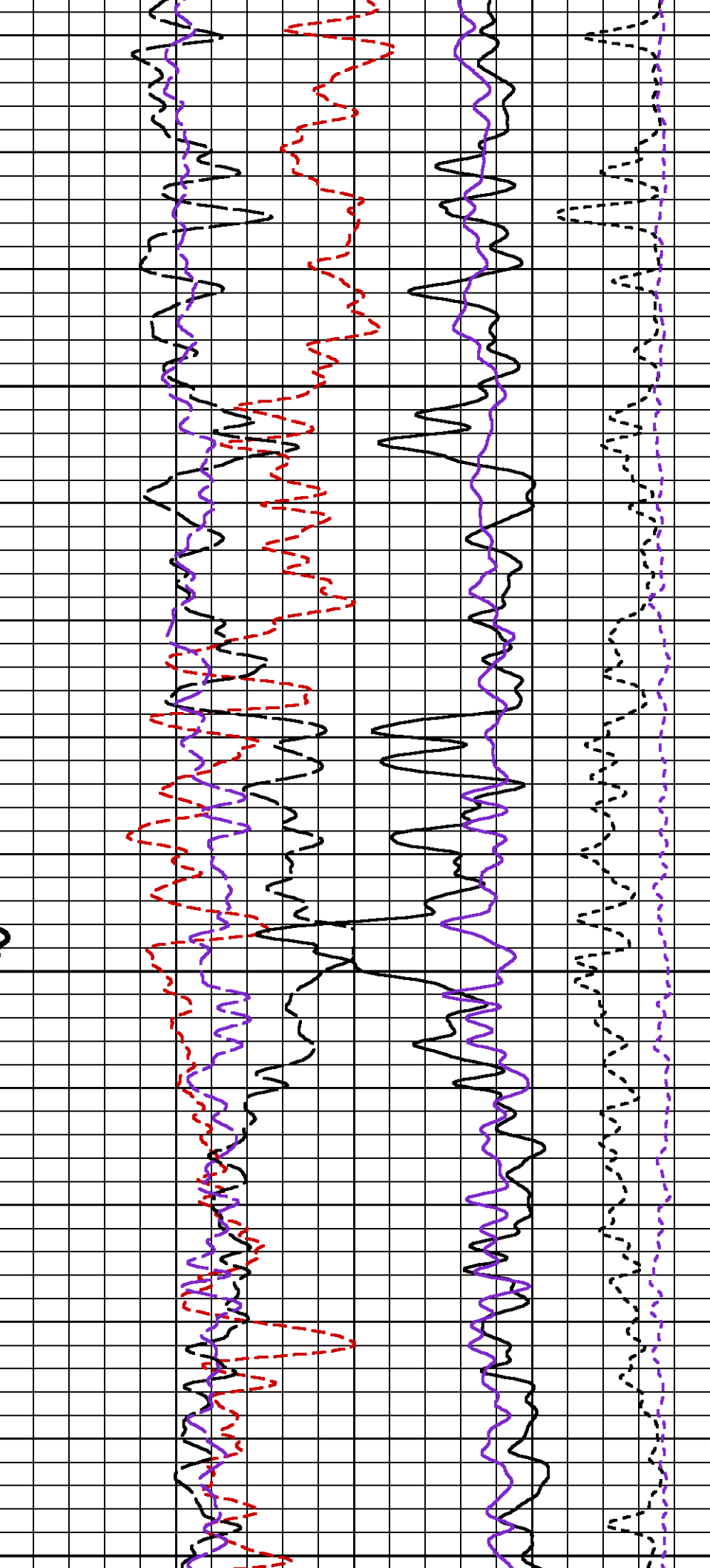


1375

1400

1425

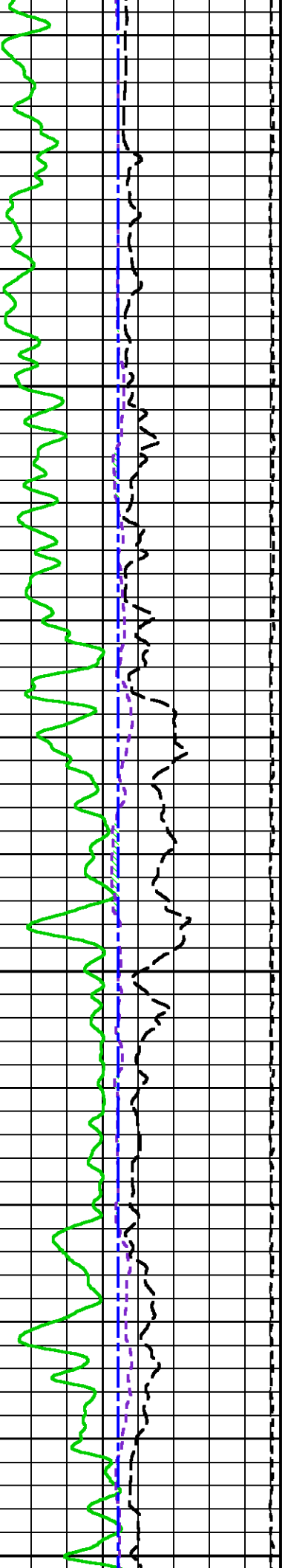


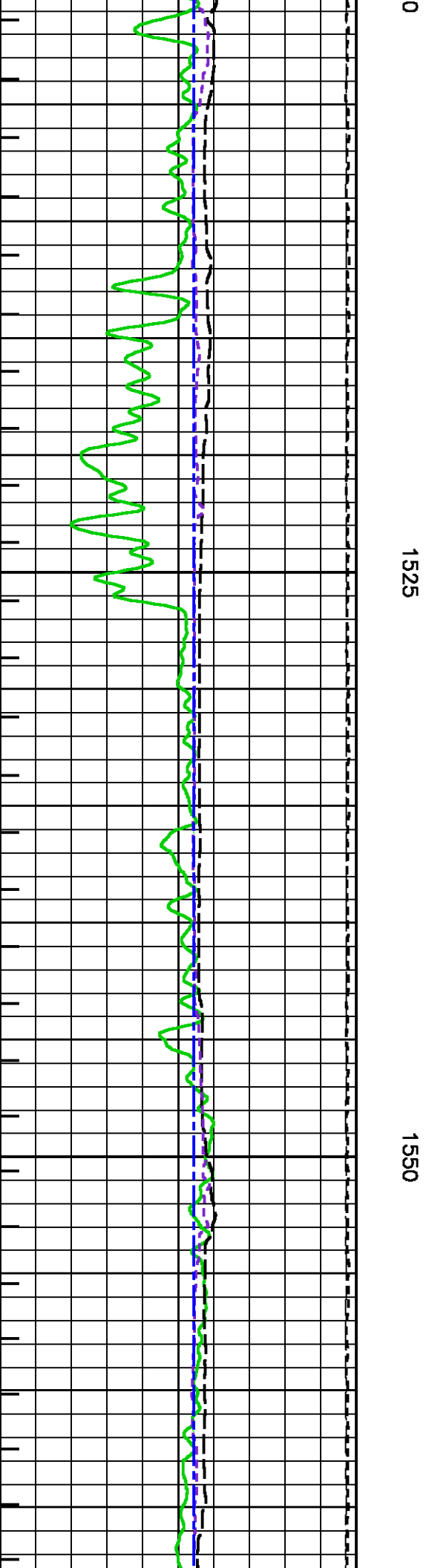
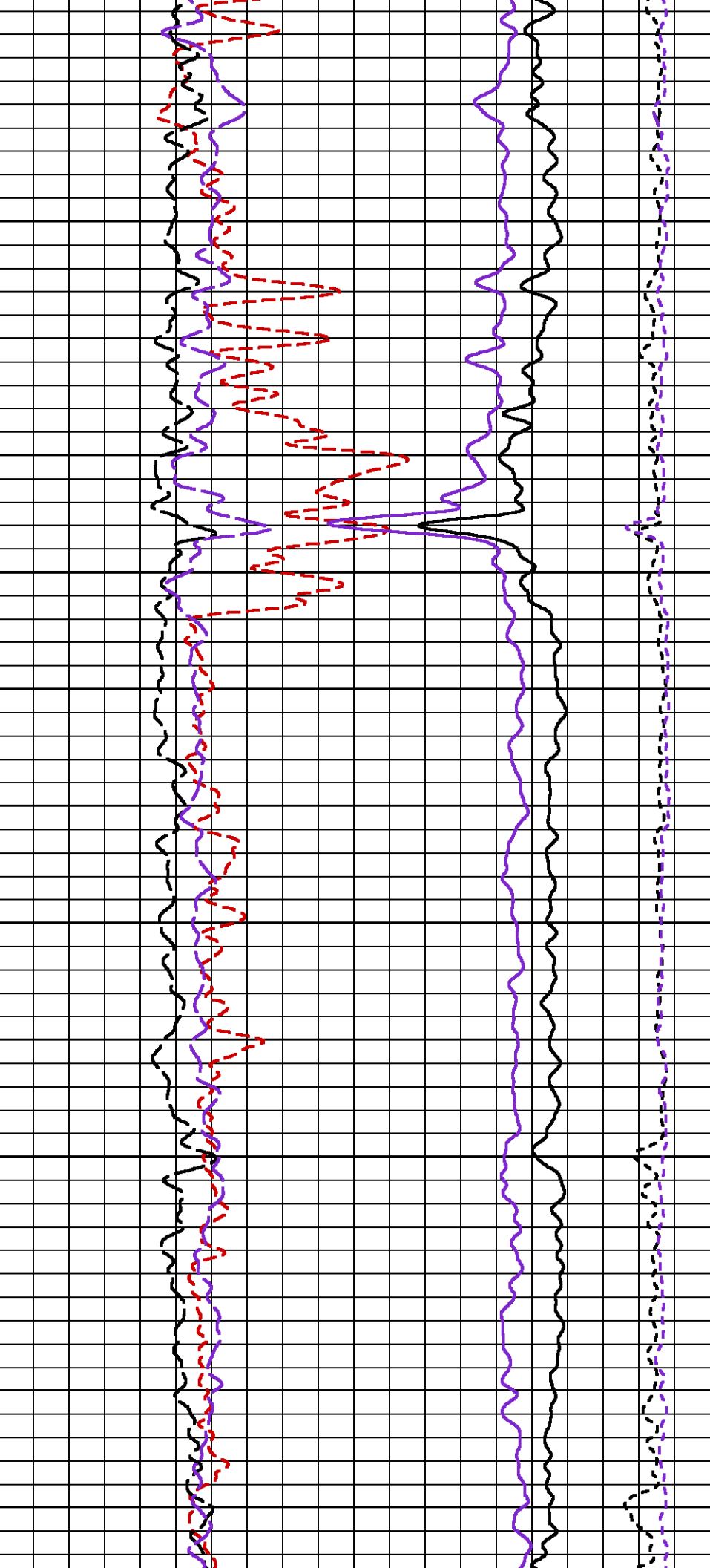


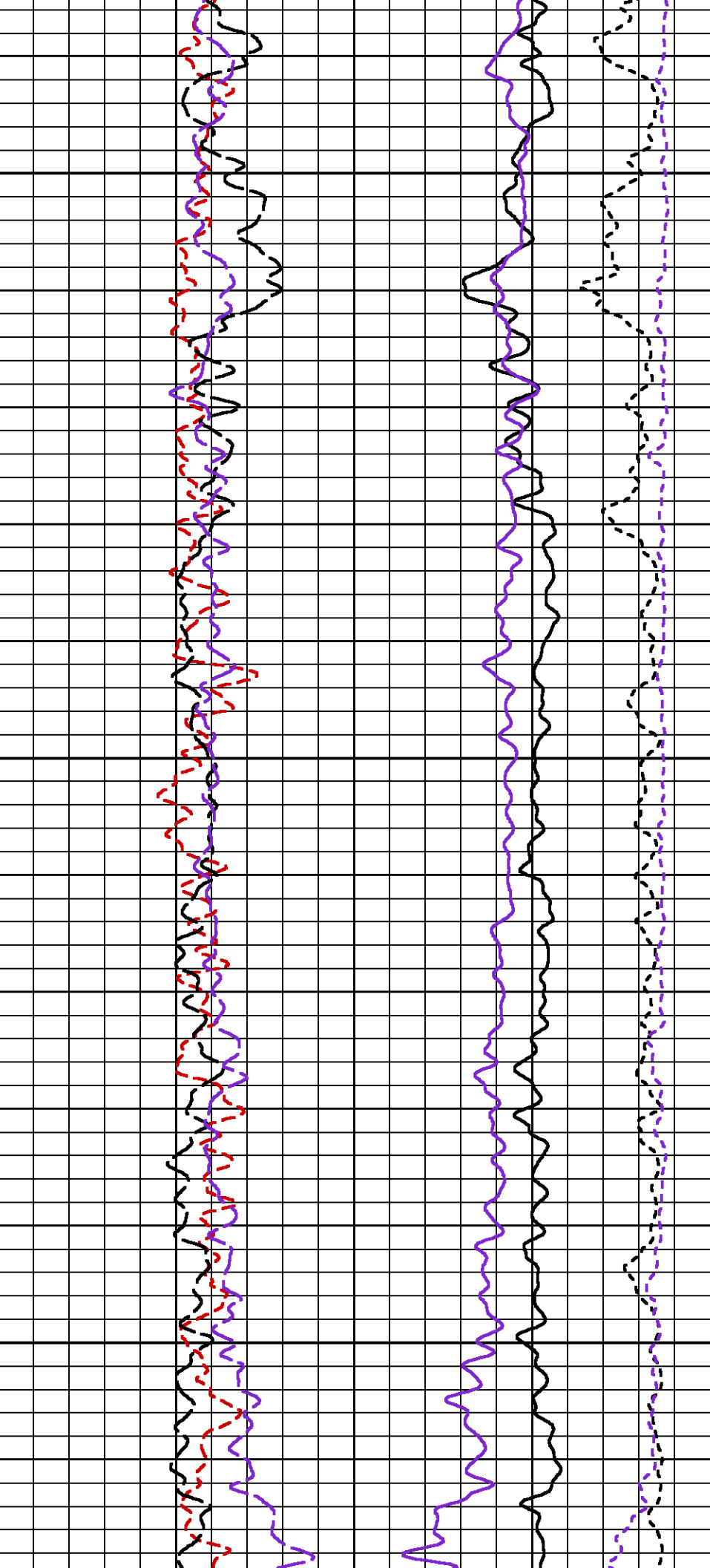
1450

1475

1500



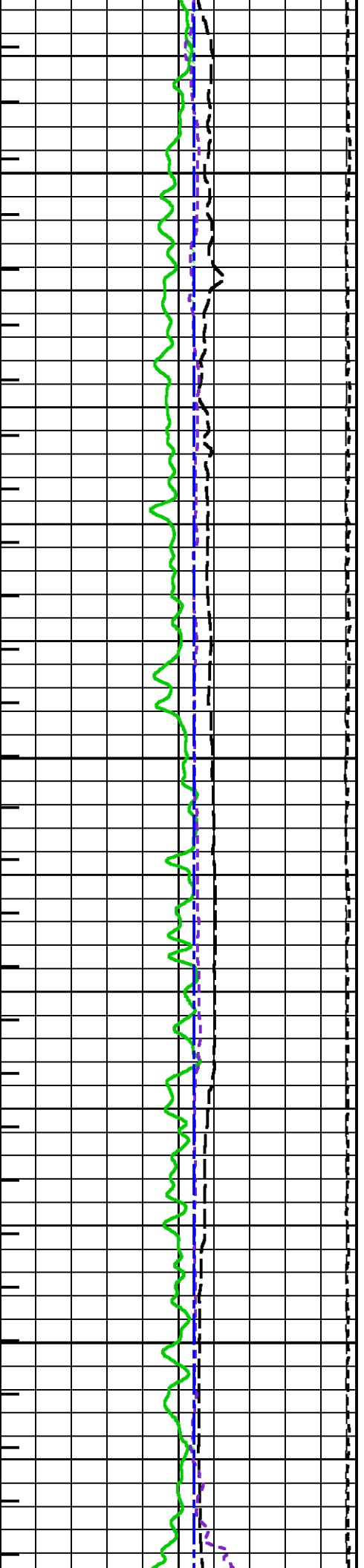


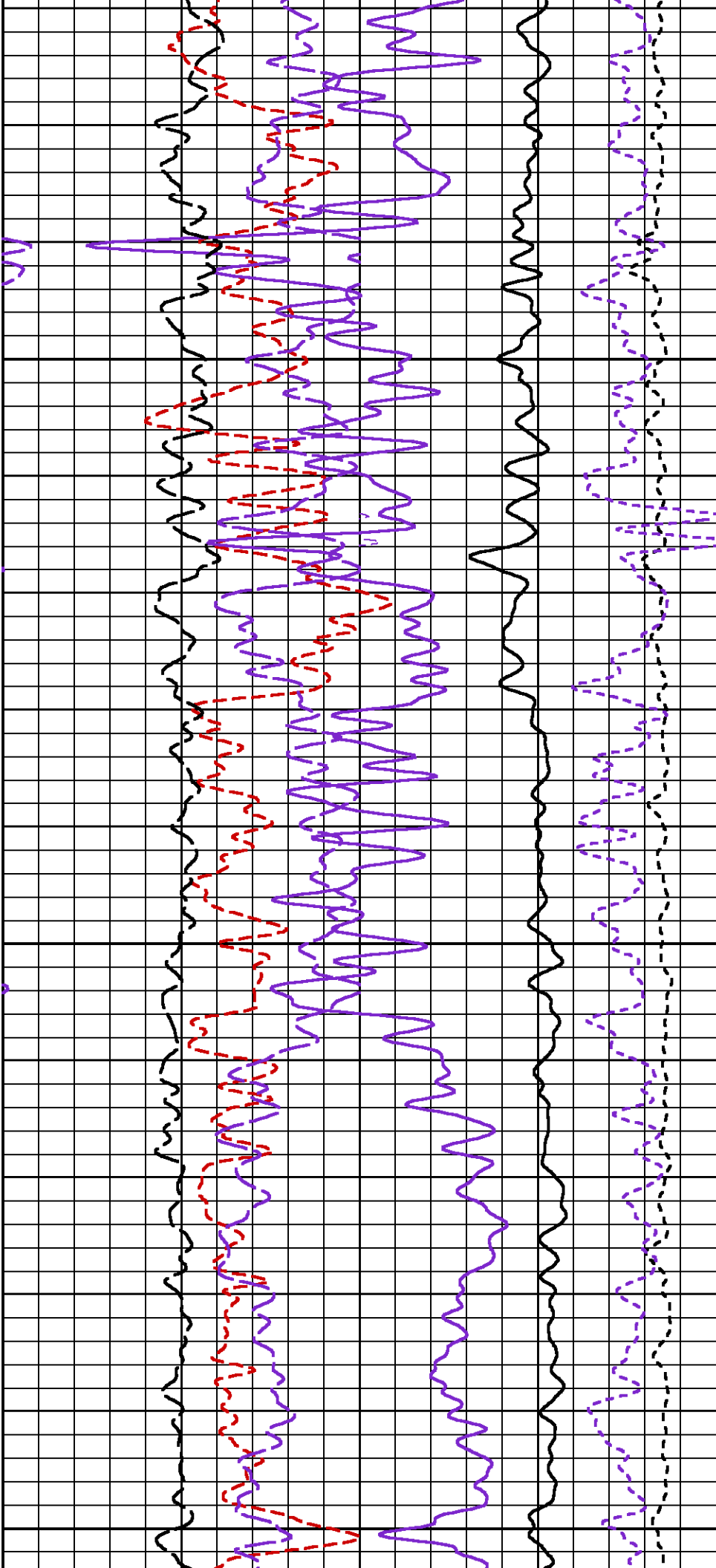


1575

1600

1625

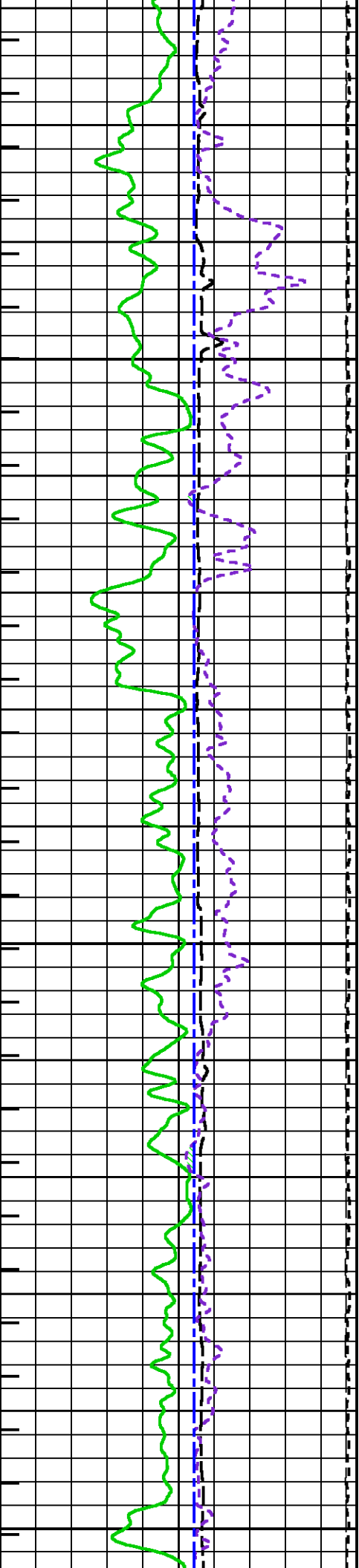


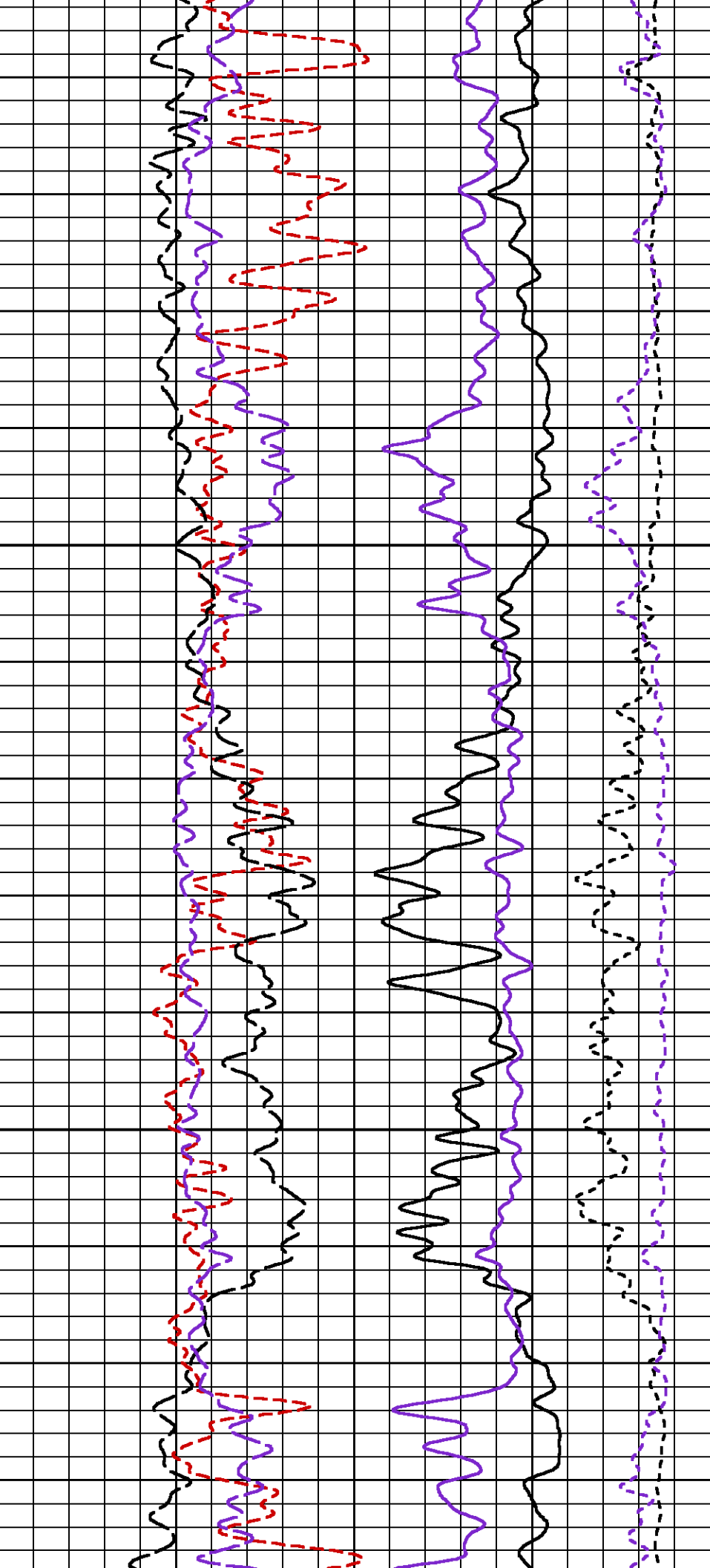


1650

1675

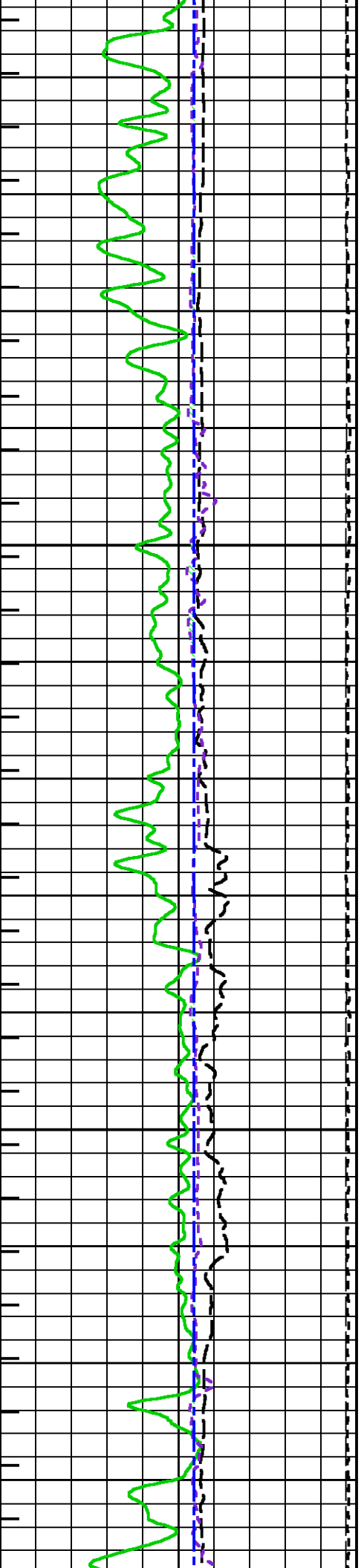
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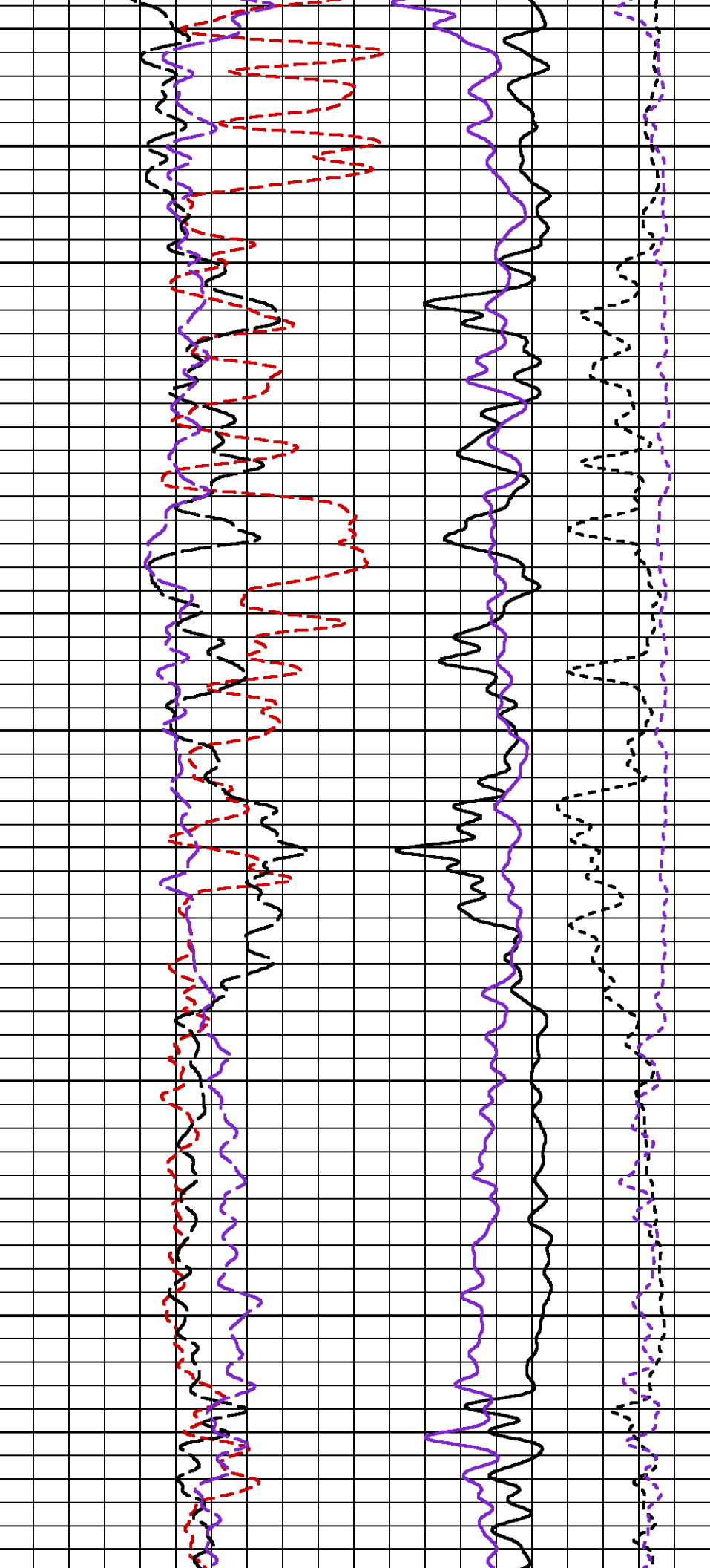




1725

1750

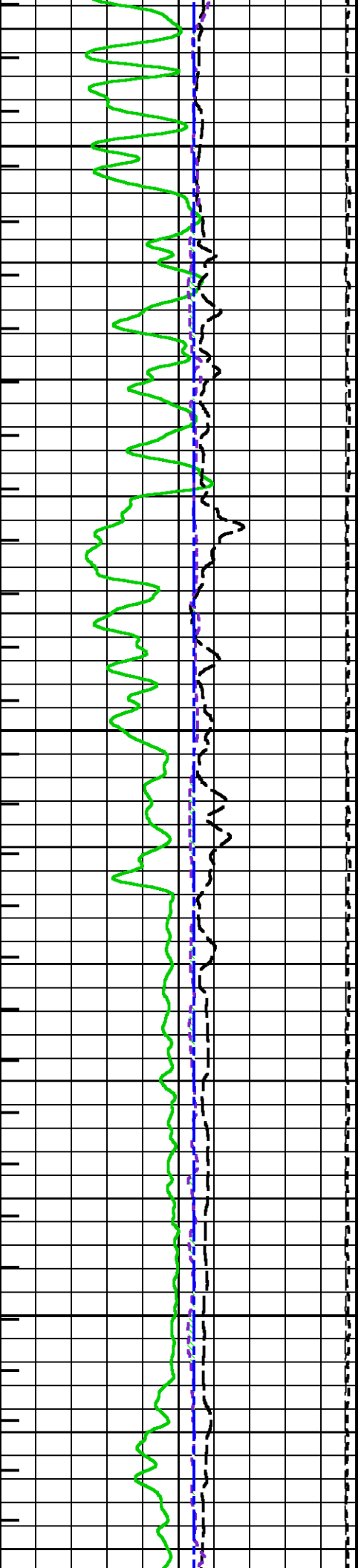


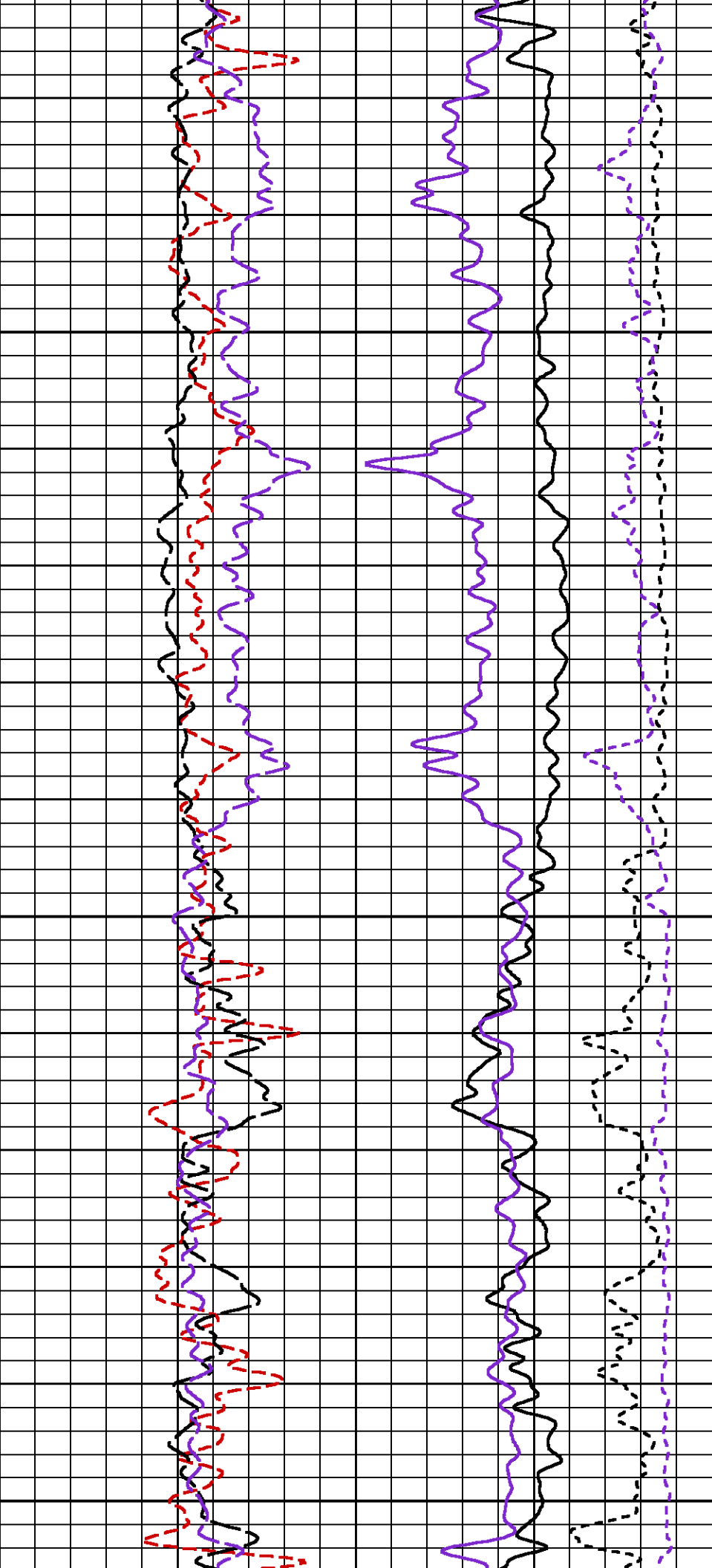


1775

1800

1825

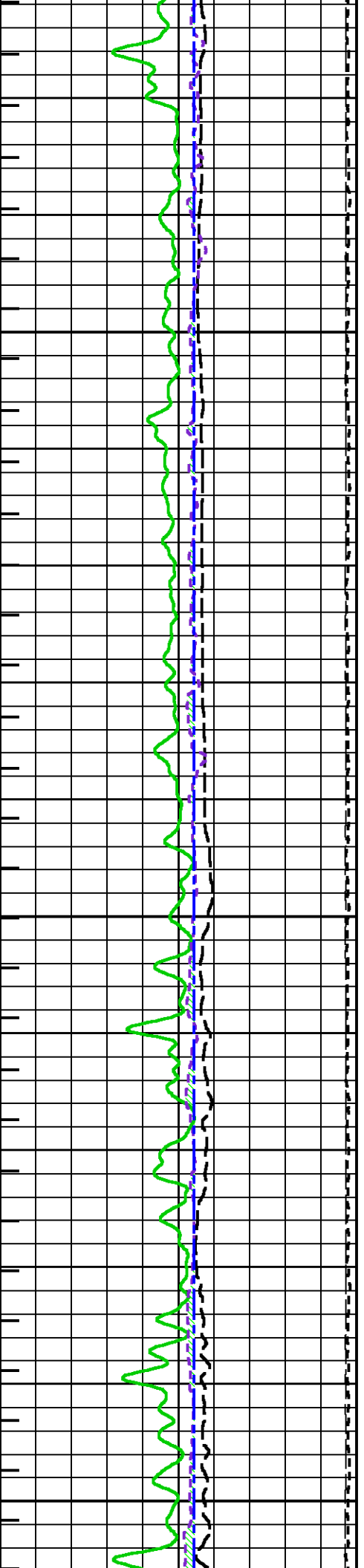


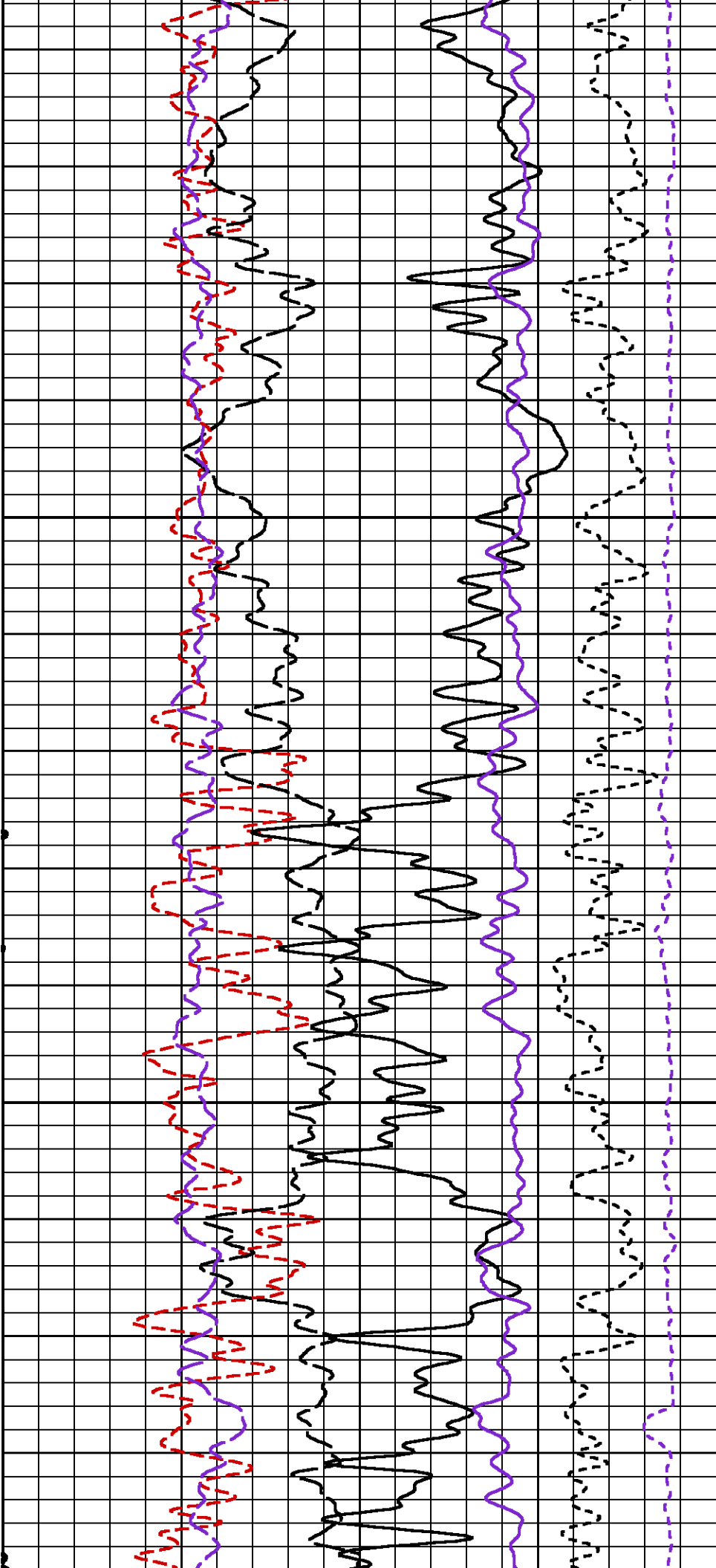


1850

1875

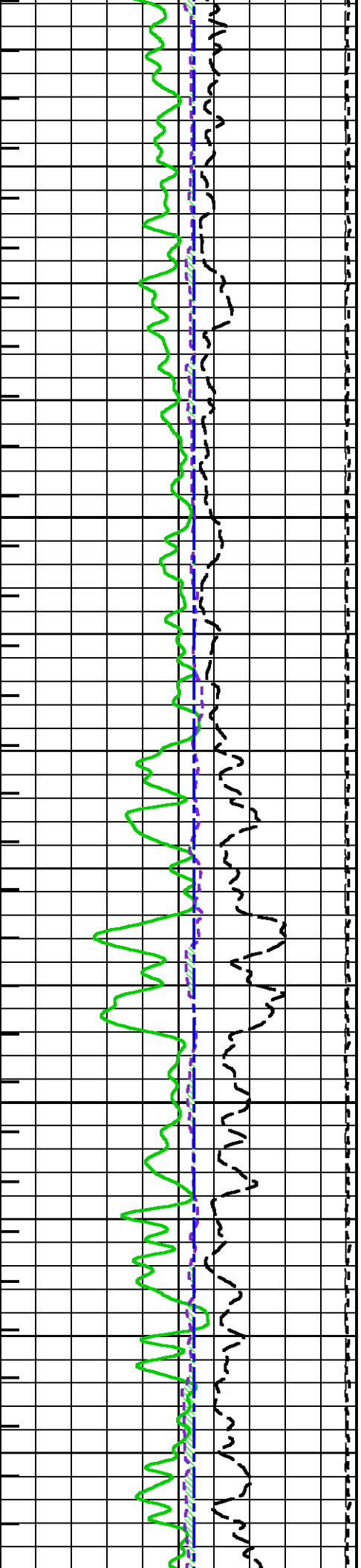
1900

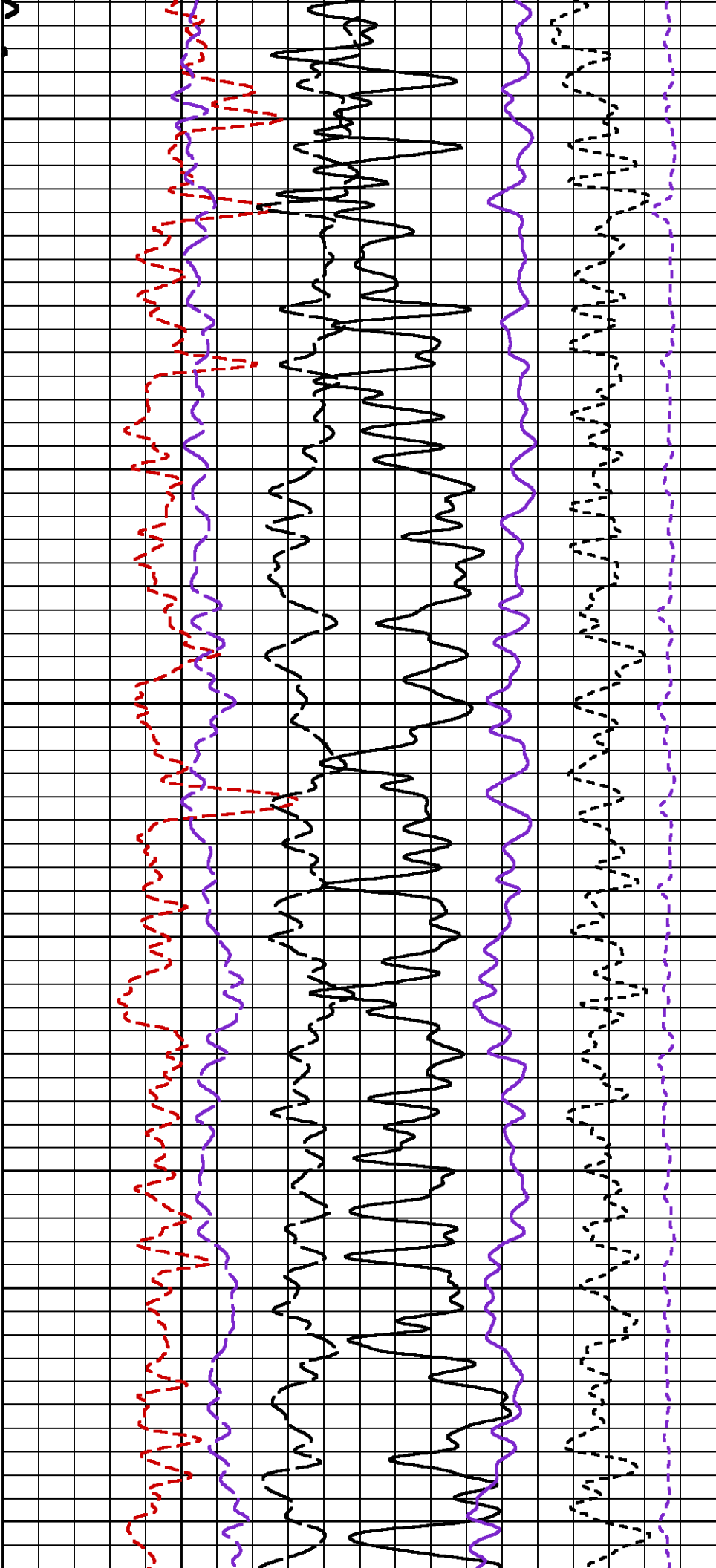




1925

1950

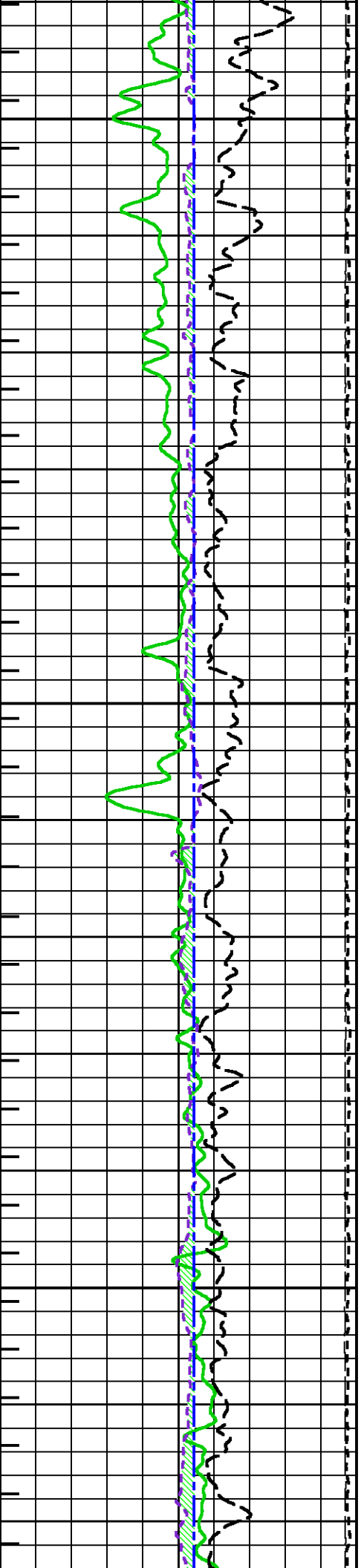


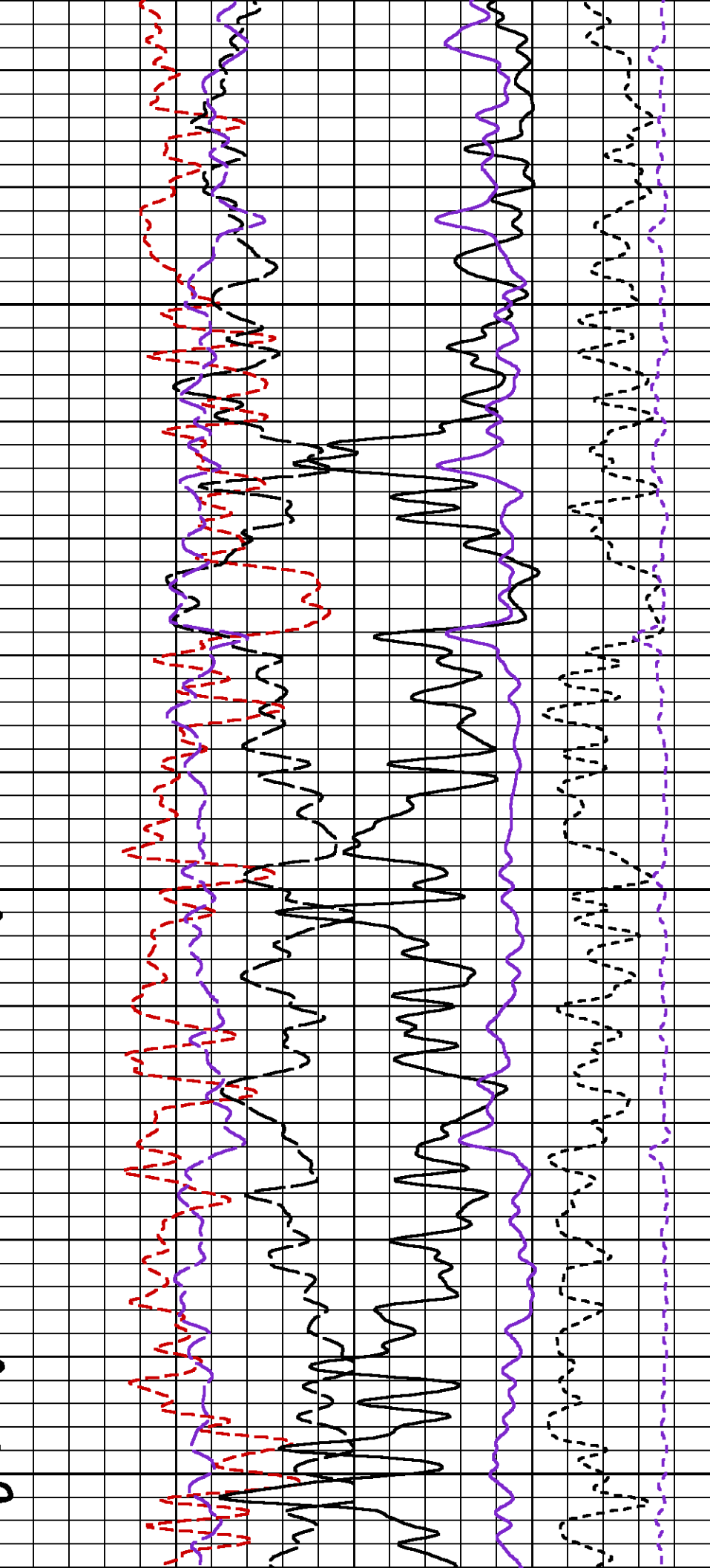


1975

2000

2025

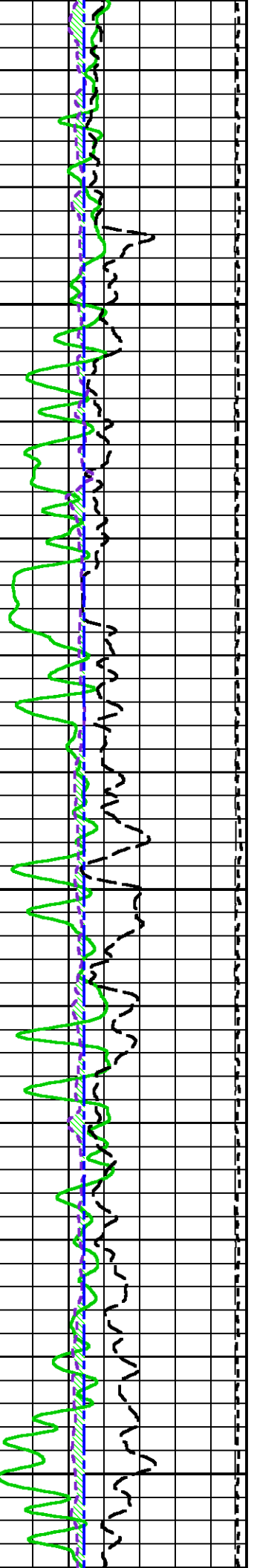


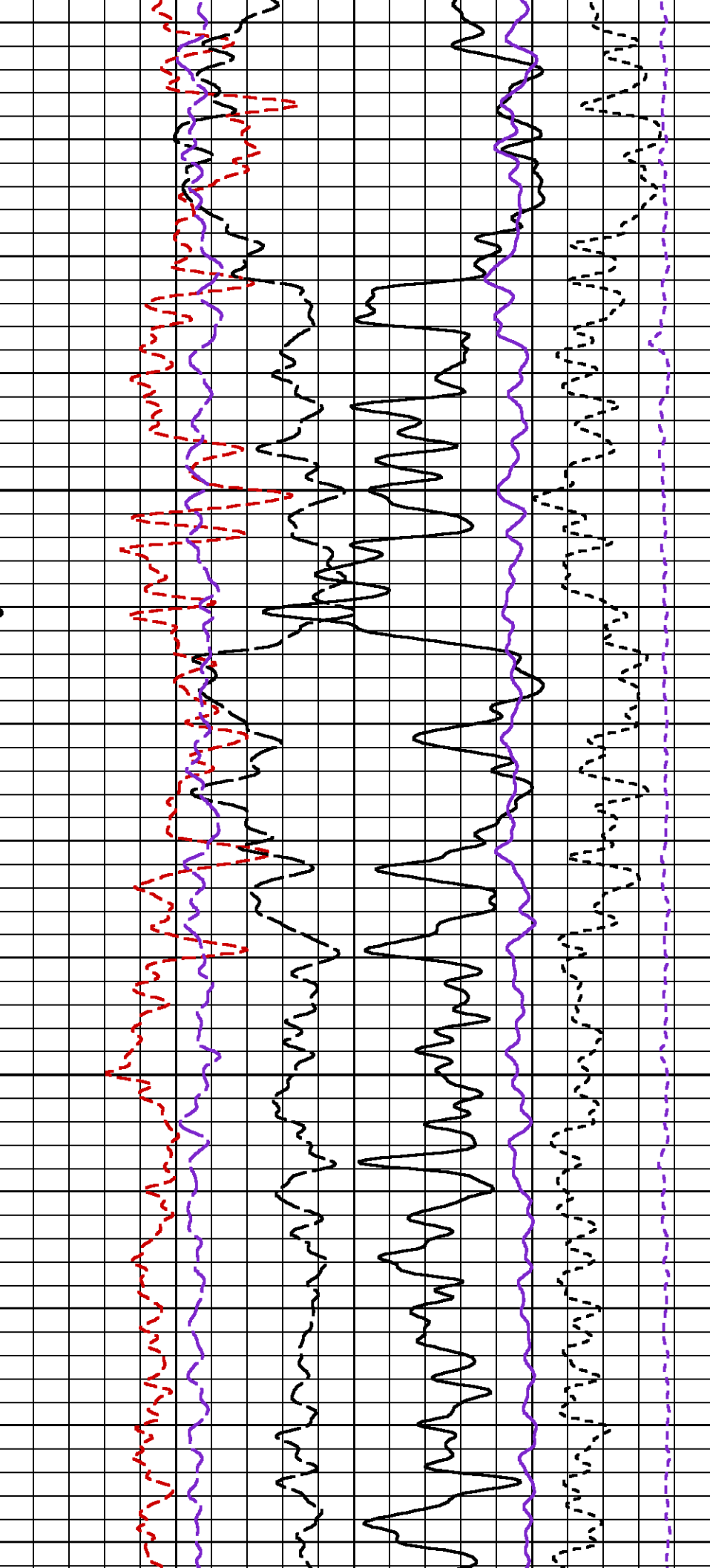


2050

2075

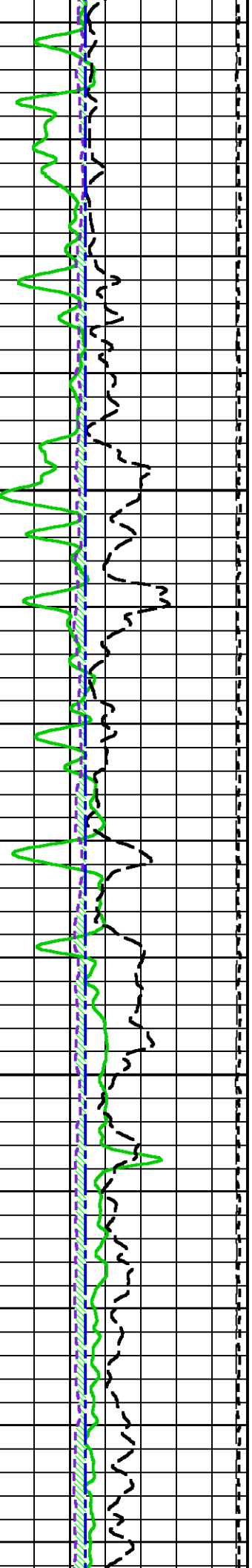
2100

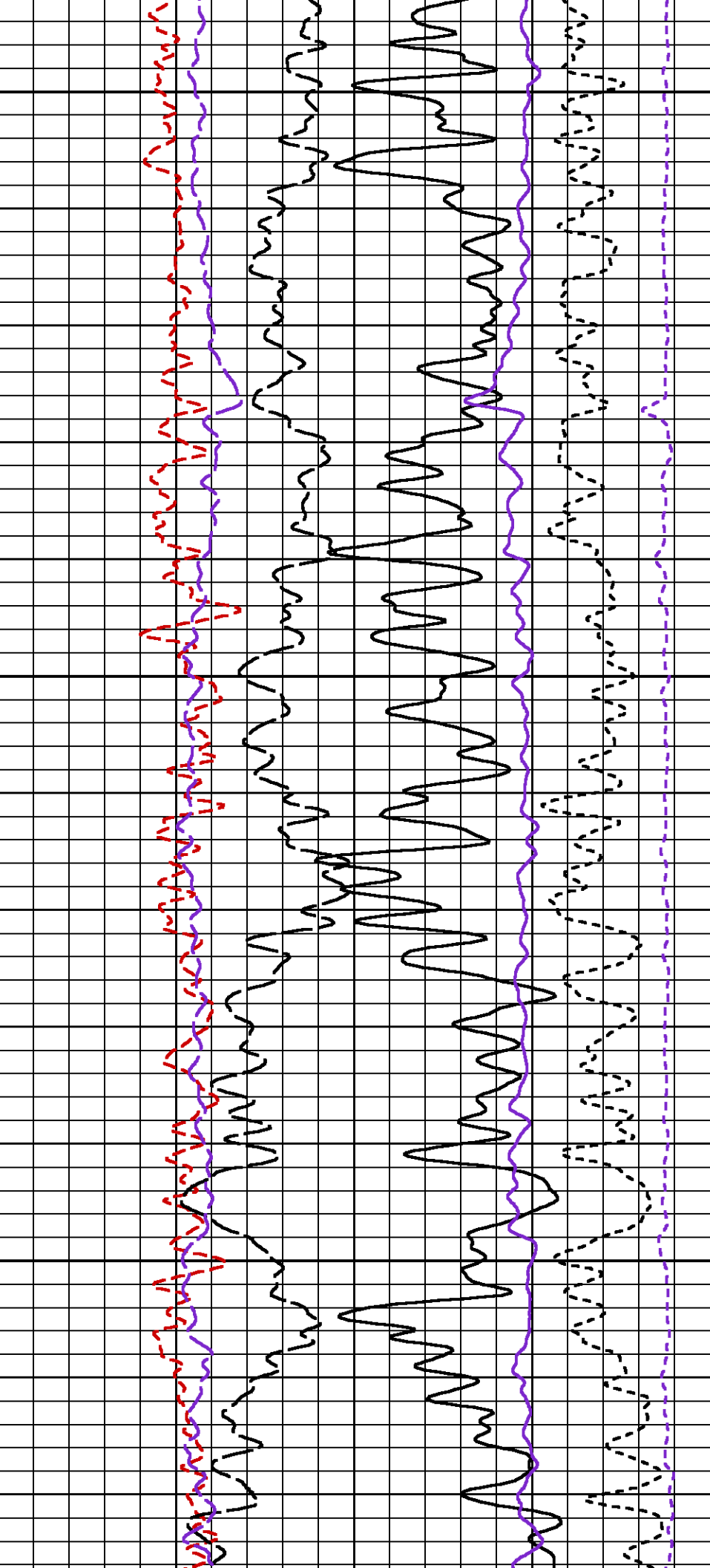




2125

2150

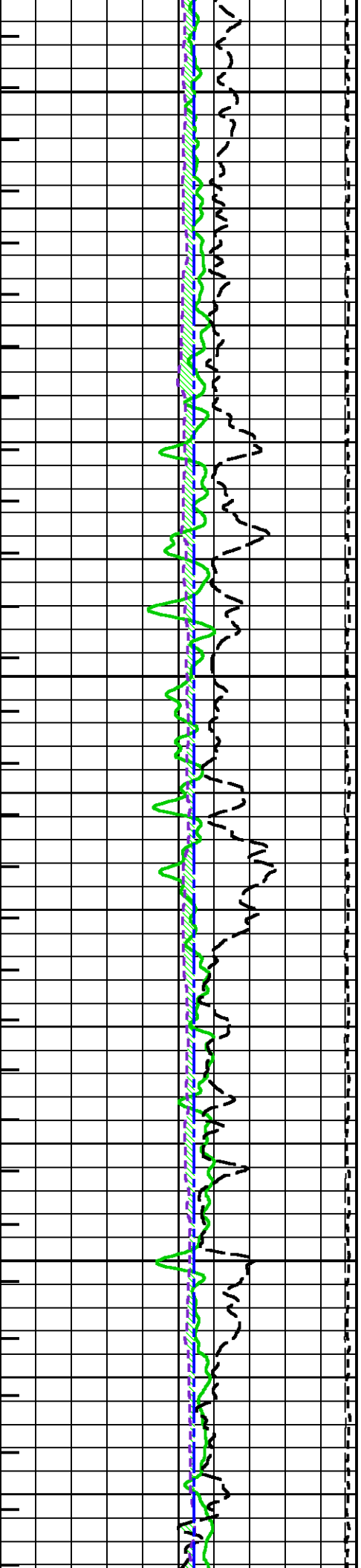


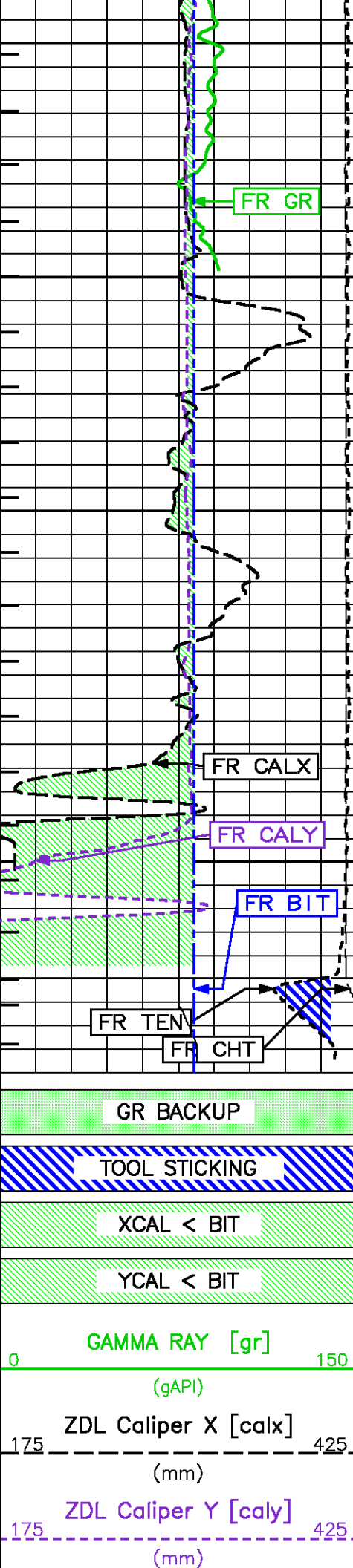


2175

2200

2225



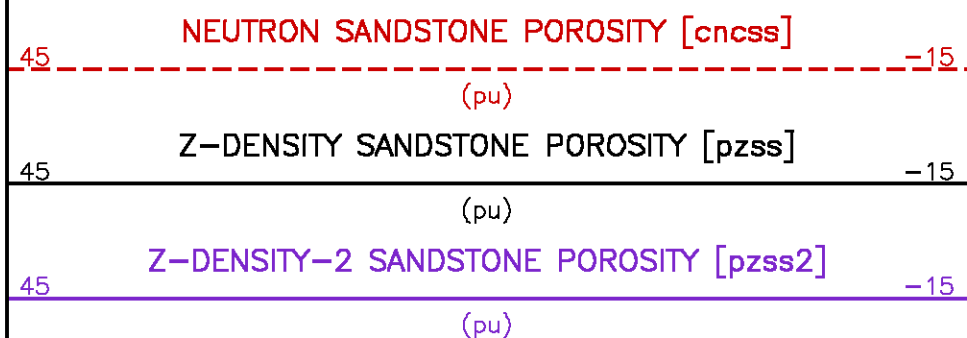
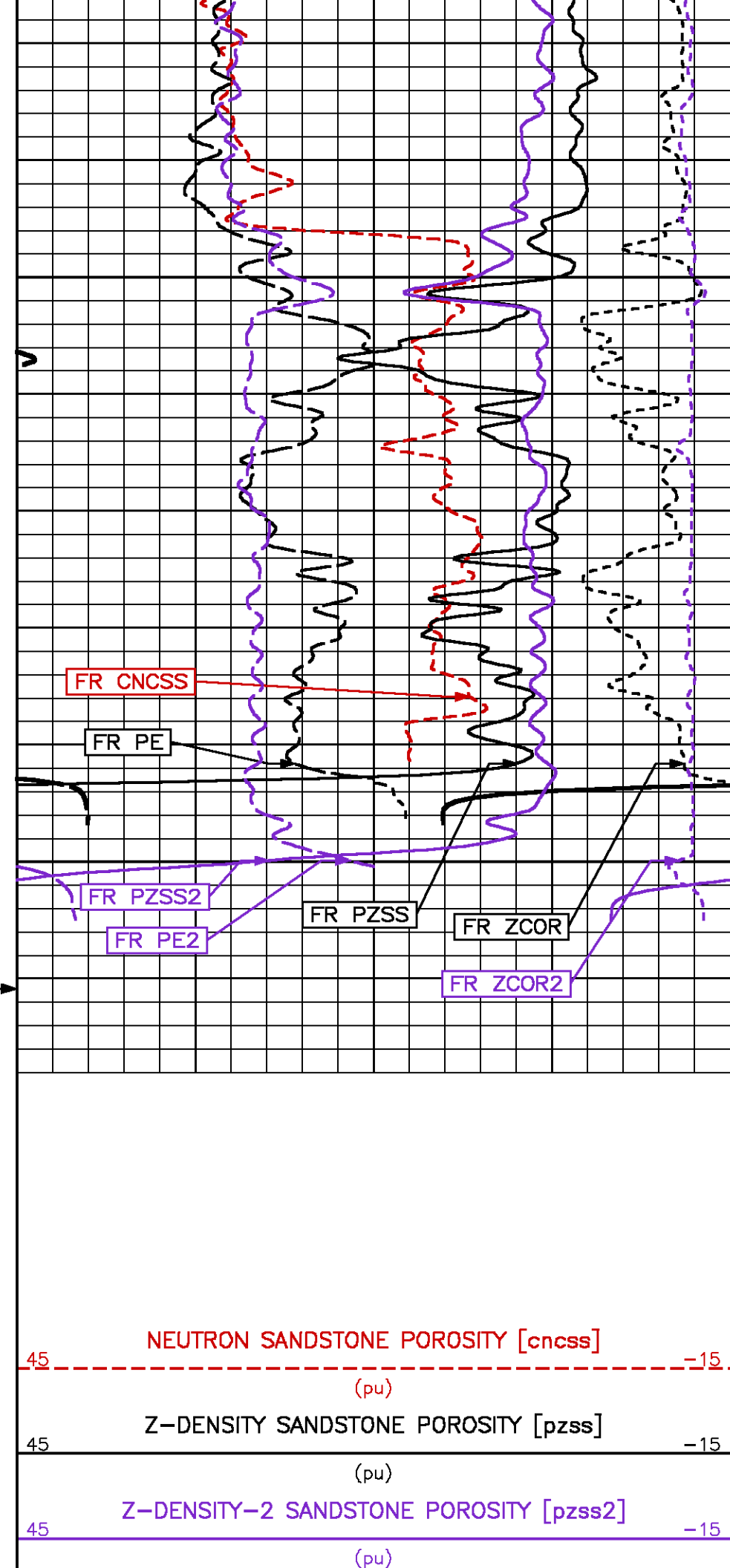


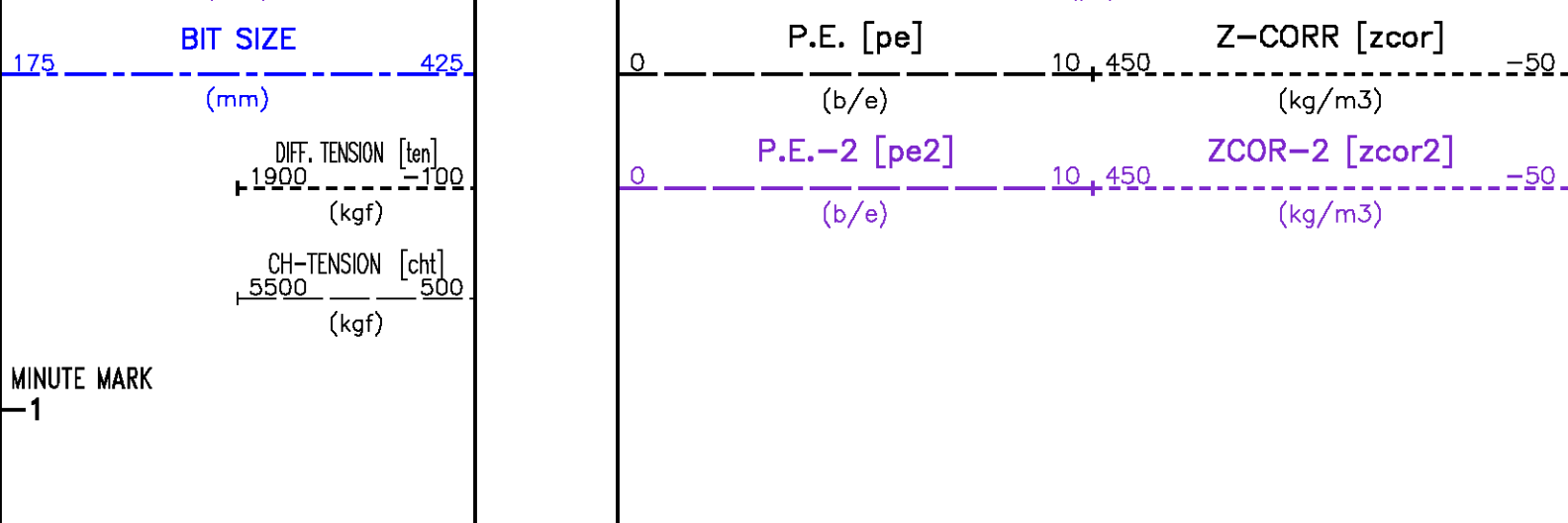
2250

2275

TD

METERS





REPEAT LOG - SANDSTONE MATRIX

ECLIPS 6.1i Aug 06, 2010
Patches: 1

Wed Nov 3 07:05:14 2010

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.50

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/nalcor_run1/m980g01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 564.238 m BOTTOM DEPTH: 649.999 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
CN MED RES	FILTER ()	medium (1)		"	"
ZDL MED RES	FILTER (hrd1*)	medium		"	"
	FILTER (hrd12*)	medium		"	"
	FILTER (hrd1s*)	medium		"	"
	FILTER (hrd1s2*)	medium		"	"
	FILTER (hrd2*)	medium		"	"
	FILTER (hrd22*)	medium		"	"
	FILTER (hrd2s*)	medium		"	"
	FILTER (hrd2s2*)	medium		"	"
	FILTER (soft*)	medium		"	"
	FILTER (soft2*)	medium		"	"

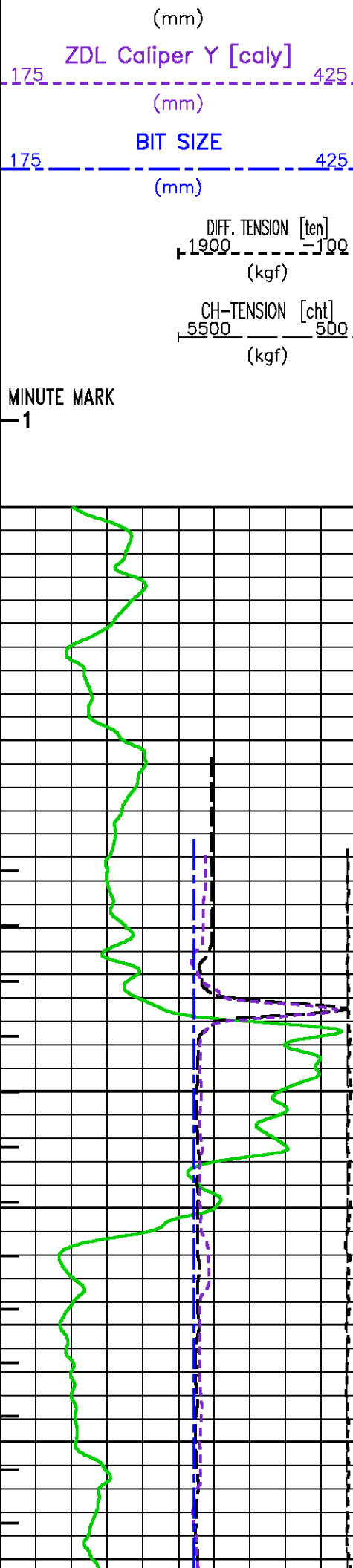
BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	244.500	mm	TOP	BOTTOM
	CASING THICKNESS	0.000	mm	"	"
BIT SIZE	BIT SIZE	311.000	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	311.000	mm	"	"
X-Y COMBINED CALIPER PROCESSING-FOCM5Y	Caliper - FOCUS	Average		"	"

ACCELERATION PROCESSING

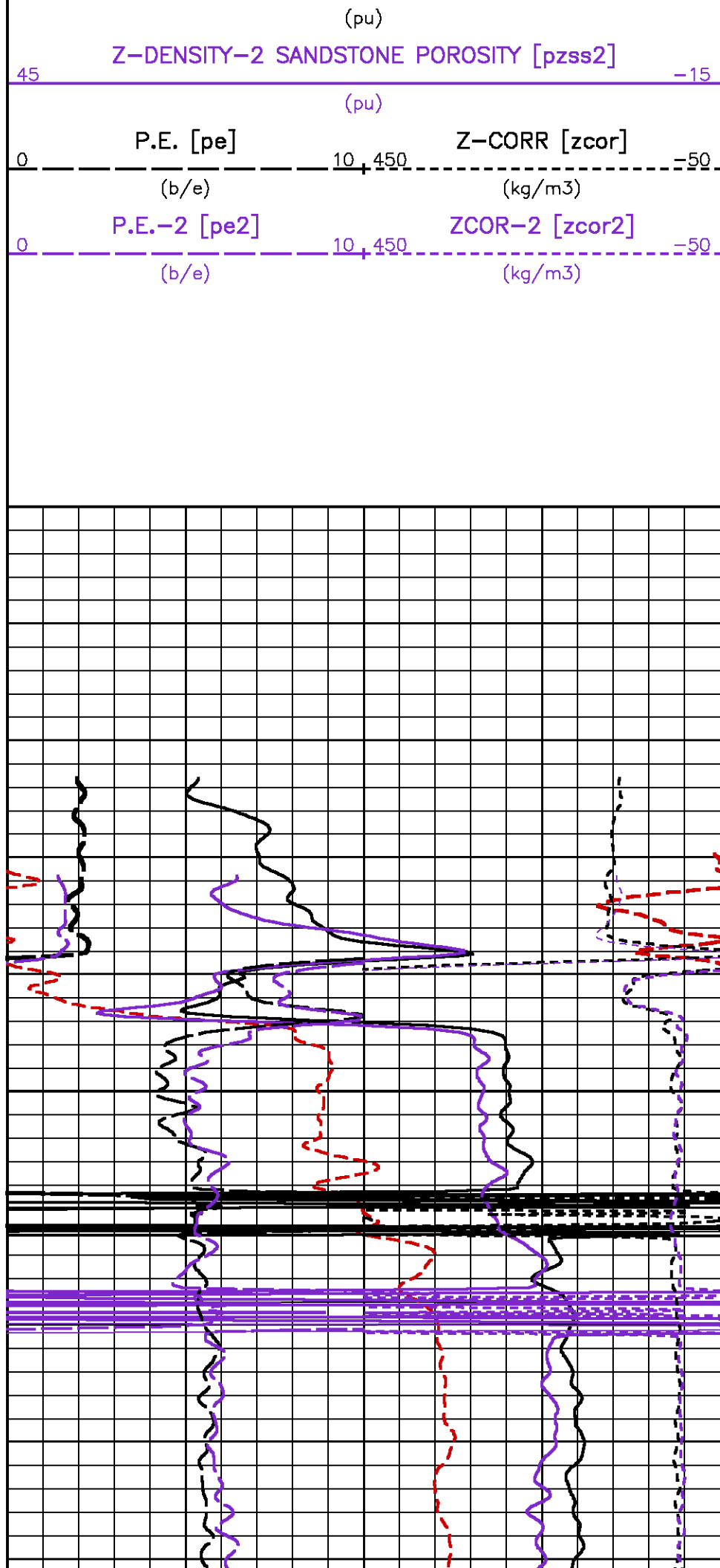
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
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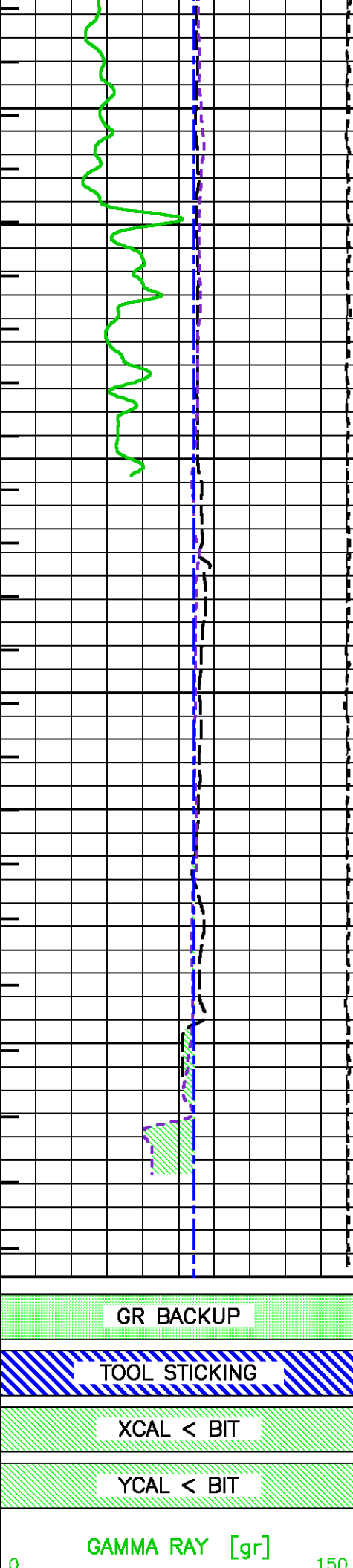
ACCEL CORR SWITCH		ACCEL DEPTH CORR		CORRECTION ON		TOP	BOTTOM	
CN PROCESSING								
MEASUREMENT TYPE	PARAMETER		VALUE	UNITS	INTERVAL (m)			
CN BOREHOLE CORRECTION	SALINITY		0	ppm	TOP	BOTTOM		
	BOREHOLE CORRECTION		ON		''	''		
CN CASING & CEMENT CORRECTION	CORRECTION		OFF		''	''		
	BIT SIZE BEHIND CSNG		444.500	mm	''	''		
ZDL PROCESSING								
MEASUREMENT TYPE	PARAMETER		VALUE	UNITS	INTERVAL (m)			
DENSITY POROSITY	Air Filled Borehole		NO		TOP	BOTTOM		
	RHOfluid		1.000	g/cm3	''	''		
	RHOmatrix (sand)		2.650	g/cm3	''	''		
CURVE DESCRIPTION REPORT								
CURVE NAME		CREATION DATE	CURVE DESCRIPTION					
F1:BIT	Nov 2 22:33:11	2010	BIT SIZE					
F1:CALX	Nov 2 22:33:11	2010	CALIPER FROM X-AXIS OF XY CALIPER(S)					
F1:CALY	Nov 2 22:33:11	2010	CALIPER FROM Y-AXIS OF XY CALIPER(S)					
F1:CHT	Nov 2 22:33:11	2010	CABLE HEAD TENSION					
F1:CNCSS	Nov 2 22:33:11	2010	BOREHOLE SIZE CORRECTED SANDSTONE COMPENSATED NEU POROSITY					
F1:GR	Nov 2 22:33:11	2010	GAMMA RAY					
F1:MMRK	Nov 2 22:33:11	2010	MINUTE MARK					
F1:PE	Nov 2 22:33:11	2010	PHOTO ELECTRIC CROSS-SECTION					
F1:PE2	Nov 2 22:33:11	2010	PHOTOELECTRIC CROSS-SECTION (2ND TOOL)					
F1:PZSS	Nov 2 22:33:11	2010	POROSITY FOR SANDSTONE MATRIX					
F1:PZSS2	Nov 2 22:33:11	2010	POROSITY FOR SANDSTONE MATRIX (2ND TOOL)					
F1:TEN	Nov 2 22:33:11	2010	DIFFERENTIAL TENSION					
F1:ZCOR	Nov 2 22:33:11	2010	DENSITY CORRECTION					
F1:ZCOR2	Nov 2 22:33:11	2010	DENSITY CORRECTION (2ND TOOL)					
CURVE MEASURE POINT OFFSET								
CURVE	OFFSET (m)		CURVE	OFFSET (m)		CURVE	OFFSET (m)	
BIT	0.00		CNCSS	12.50		PZSS	9.64	
CALX	9.64		GR	33.68		PZSS2	5.49	
CALY	5.49		PE	9.64		TEN	0.00	
CHT	0.00		PE2	5.49		ZCOR	9.64	
Presentation : cpu1:/dat1a/pass/nalcor_run1/zdl2_rpt_ss.pdf [1:240 Scale] Plot Interval : 550 - 649.986 Meters Data File 1 : F1 : cpu1:/dat1a/pass/nalcor_run1/r1t2_repeat.xtf Created On : Nov 2 22:33:11 2010 Company : NALCOR ENERGY Well : NALCOR ET AL FINNEGAN 31 Field : FINNEGAN File Interval : 526.847 - 649.986 Meters Oct : m980g								
GR BACKUP			METERS					
TOOL STICKING								
XCAL < BIT								
YCAL < BIT								
GAMMA RAY [gr] (gAPI)								
ZDL Caliper X [calx]								
			NEUTRON SANDSTONE POROSITY [cncss] ----- (pu)					
			Z-DENSITY SANDSTONE POROSITY [pzss]					



550

575



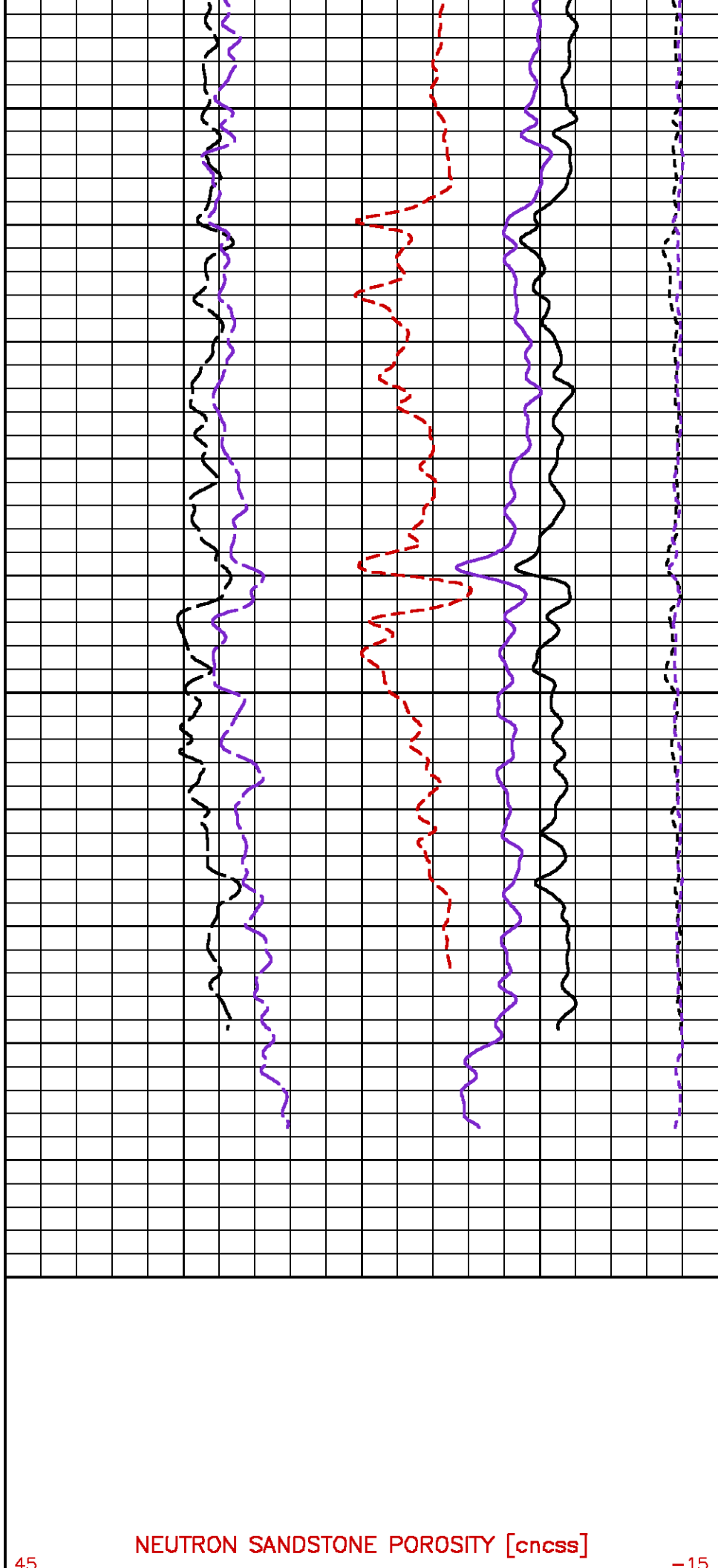


600

625

650

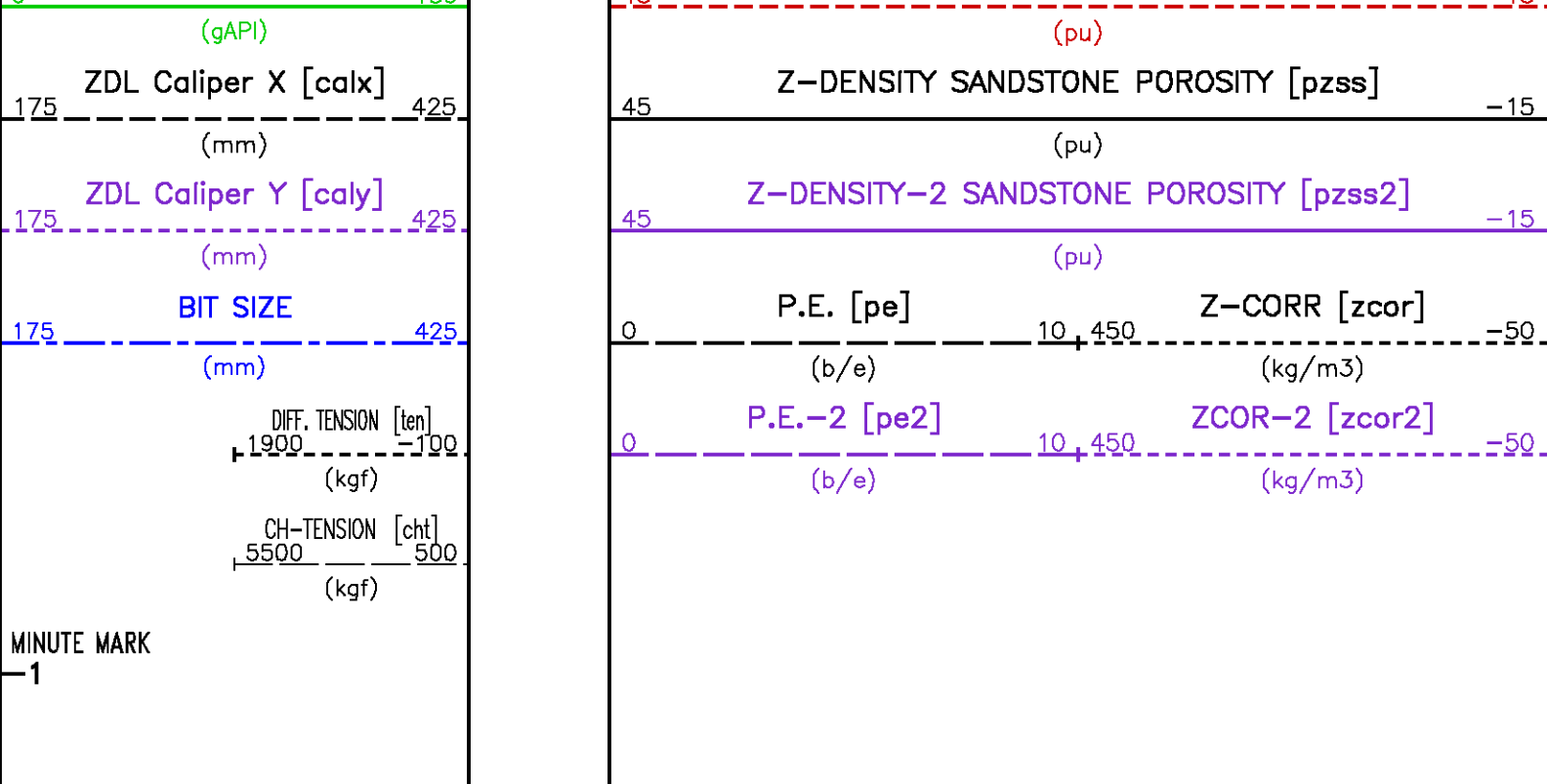
METERS



45

NEUTRON SANDSTONE POROSITY [cnss]

15



HIGH RESOLUTION LOG - SANDSTONE MATRIX

ECLIPS 6.1i Aug 06, 2010
Patches: 1

Wed Nov 3 15:39:11 2010

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.50

PARAMETER AND FILTER SUMMARY REPORT

File: /data/pass/nalcor_run1/m980g03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 542.107 m BOTTOM DEPTH: 2283.998 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
TENSION	FILTER ()	medium (1)		''	''
GR	FILTER (.h)	medium (1)		''	''
CALIPER	FILTER (.h)	medium (1)		''	''
CN HIGH RES	FILTER (.h)	light		''	''
ZDL HIGH RES	FILTER (hrd1*)	light		''	''
	FILTER (hrd12*)	light		''	''
	FILTER (hrd1s*)	light		''	''
	FILTER (hrd1s2*)	light		''	''
	FILTER (hrd2*)	light		''	''
	FILTER (hrd22*)	light		''	''
	FILTER (hrd2s*)	light		''	''
	FILTER (hrd2s2*)	light		''	''
	FILTER (soft*)	light		''	''
	FILTER (soft2*)	light		''	''

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
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CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	244.500	mm	TOP	BOTTOM
	CASING THICKNESS	0.000	mm	''	''
BIT SIZE	BIT SIZE	311.000	mm	''	''
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		''	''
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	311.000	mm	''	''
X-Y COMBINED CALIPER PROCESSING-FOCM5Y	Caliper - FOCUS	Y-Axis		''	''

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

CN PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CN BOREHOLE CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
	BOREHOLE CORRECTION	ON		''	''
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		''	''
	BIT SIZE BEHIND CSNG	444.500	mm	''	''

ZDL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DENSITY POROSITY	Air Filled Borehole	NO		TOP	BOTTOM
	RHOfluid	1.000	g/cm3	''	''
	RHOmatrix (sand)	2.650	g/cm3	''	''

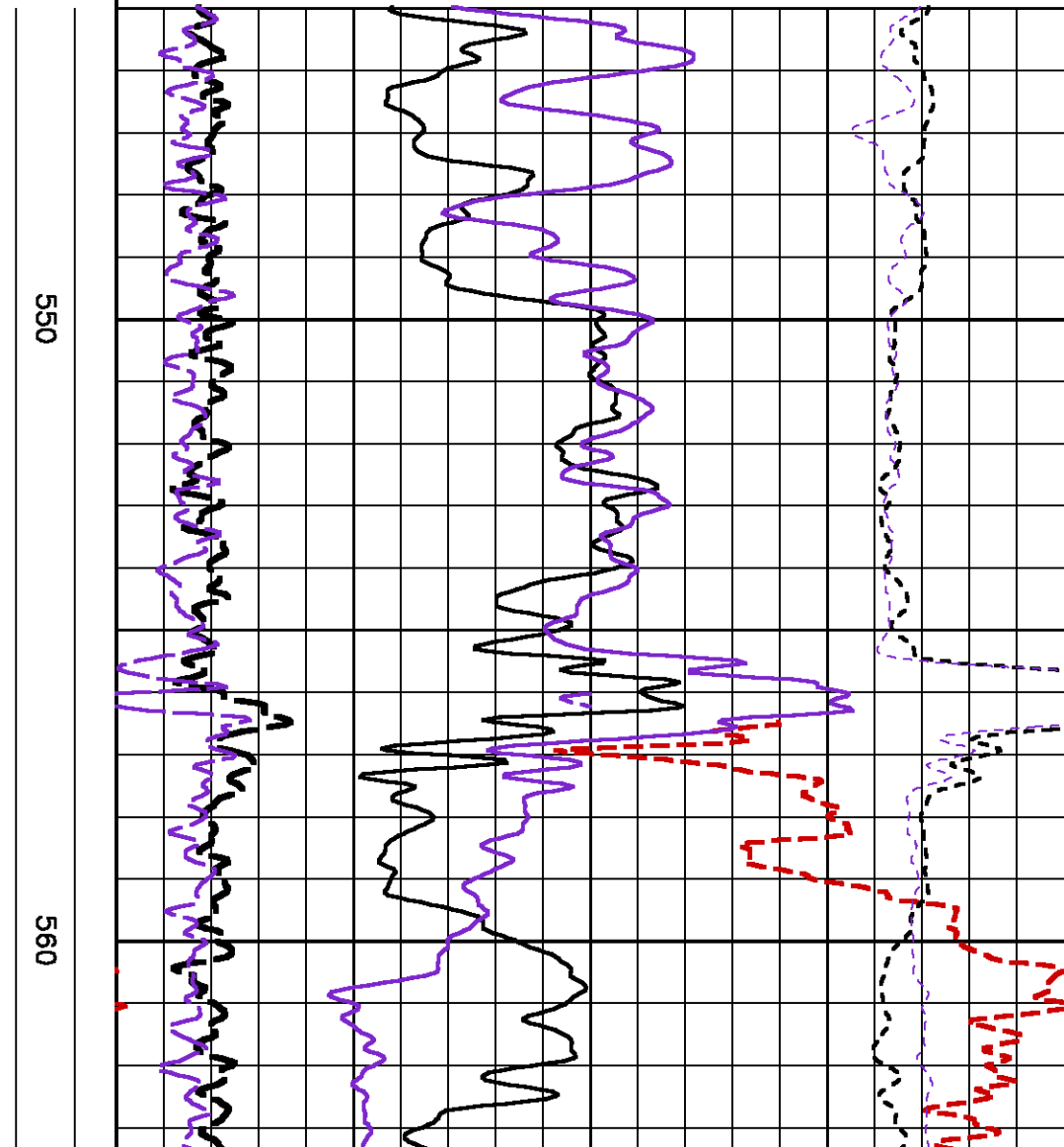
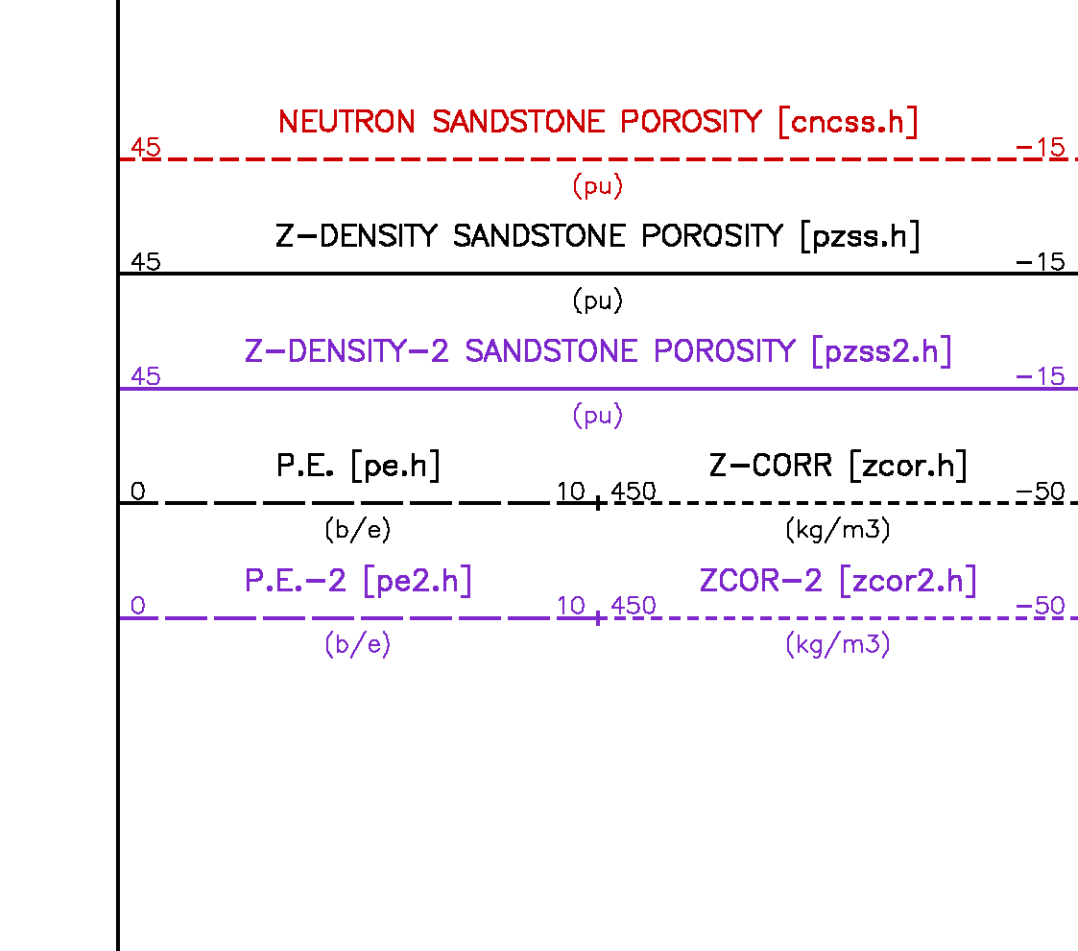
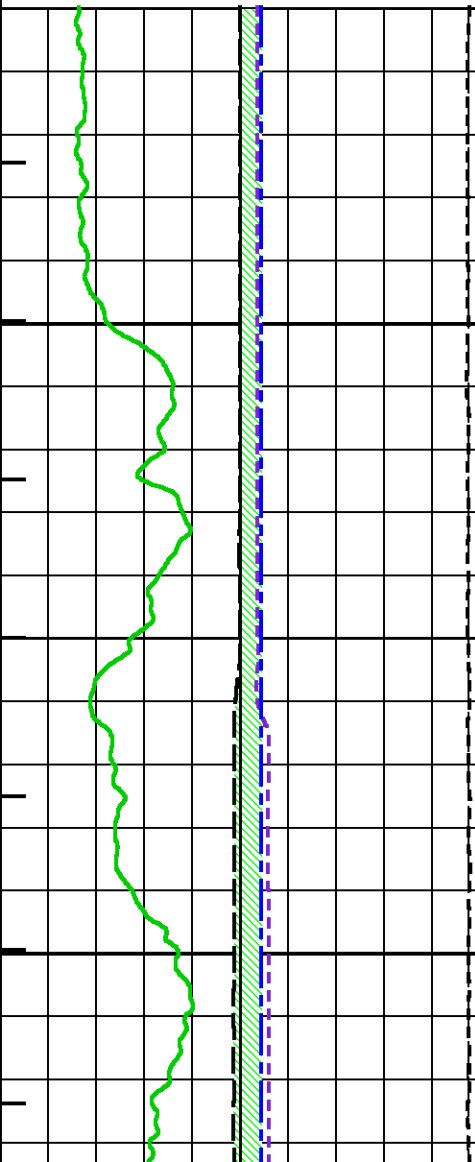
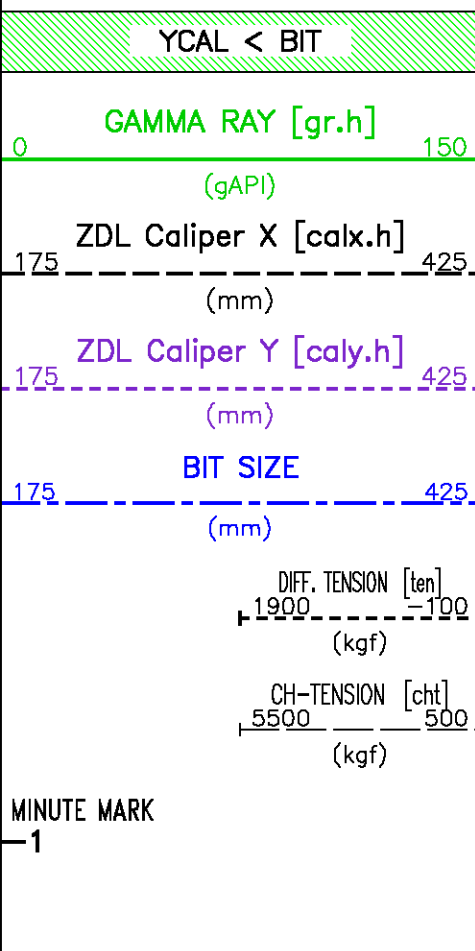
CURVE DESCRIPTION REPORT			
CURVE NAME	CREATION DATE	CURVE DESCRIPTION	
F1:BIT	Nov 3 01:15:13 2010	BIT SIZE	
F1:CALXQH	Nov 3 01:15:13 2010	CALIPER FROM X-AXIS OF XY CALIPER(S)	
F1:CALYQH	Nov 3 01:15:13 2010	CALIPER FROM Y-AXIS OF XY CALIPER(S)	
F1:CHT	Nov 3 01:15:13 2010	CABLE HEAD TENSION	
F1:CNCSSQH	Nov 3 01:15:13 2010	BOREHOLE SIZE CORRECTED SANDSTONE COMPENSATED NEU POROSITY	
F1:GRQH	Nov 3 01:15:13 2010	GAMMA RAY	
F1:MMRK	Nov 3 01:15:13 2010	MINUTE MARK	
F1:PE2QH	Nov 3 01:15:13 2010	PHOTOELECTRIC CROSS-SECTION (2ND TOOL)	
F1:PEQH	Nov 3 01:15:13 2010	PHOTO ELECTRIC CROSS-SECTION	
F1:PZSS2QH	Nov 3 01:15:13 2010	POROSITY FOR SANDSTONE MATRIX (2ND TOOL)	
F1:PZSSQH	Nov 3 01:15:13 2010	POROSITY FOR SANDSTONE MATRIX	
F1:TEN	Nov 3 01:15:13 2010	DIFFERENTIAL TENSION	
F1:ZCOR2QH	Nov 3 01:15:13 2010	DENSITY CORRECTION (2ND TOOL)	
F1:ZCORQH	Nov 3 01:15:13 2010	DENSITY CORRECTION	

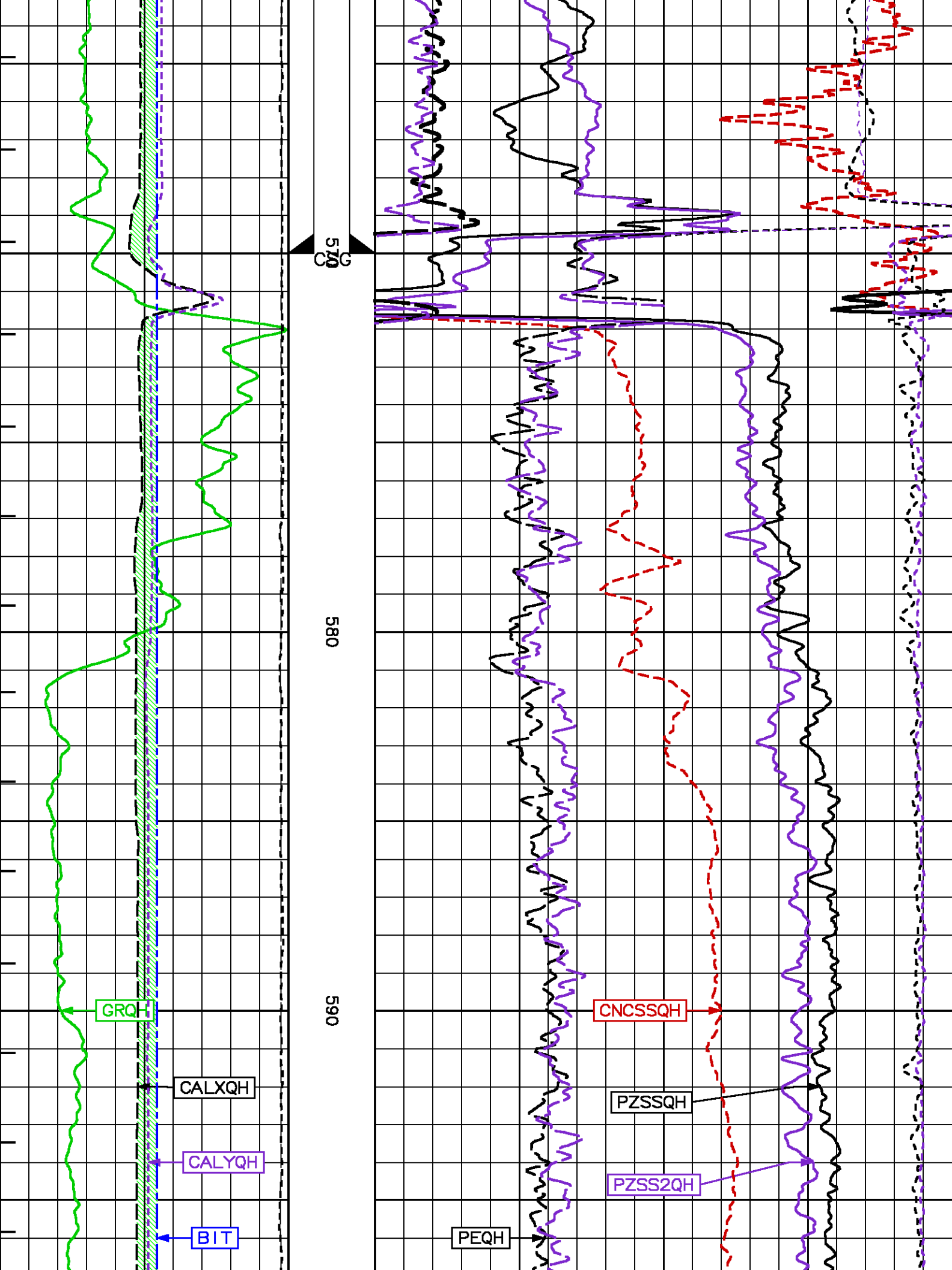
CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CNCSSQH	12.50	PZSS2QH	5.52	ZCORQH	9.64
CALXQH	9.64	GRQH	33.68	PZSSQH	9.64		
CALYQH	5.52	PE2QH	5.52	TEN	0.00		
CHT	0.00	PEQH	9.64	ZCOR2QH	5.52		

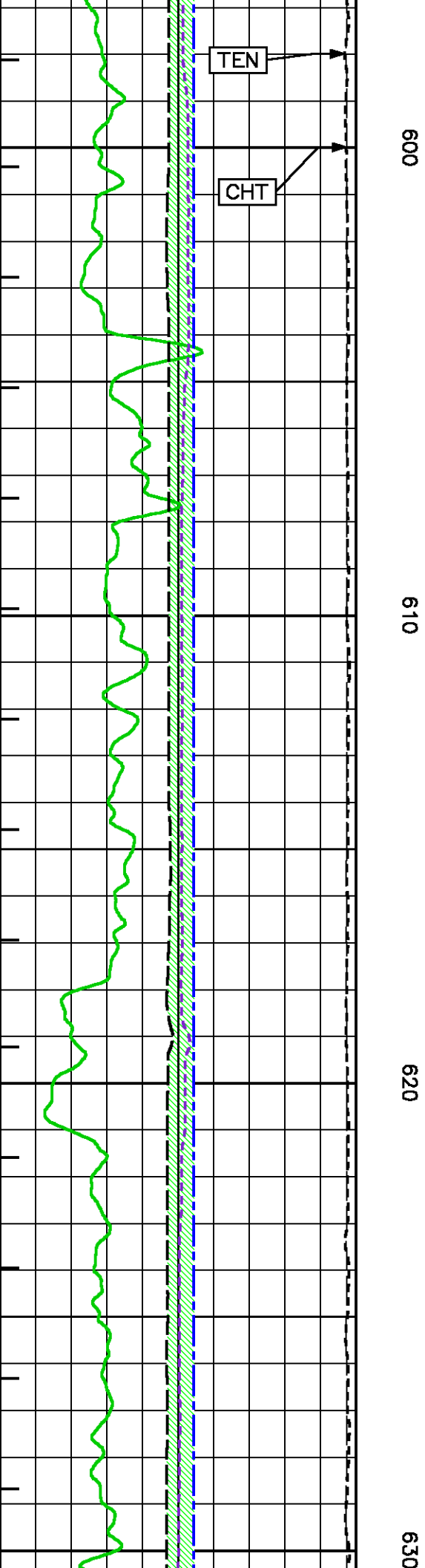
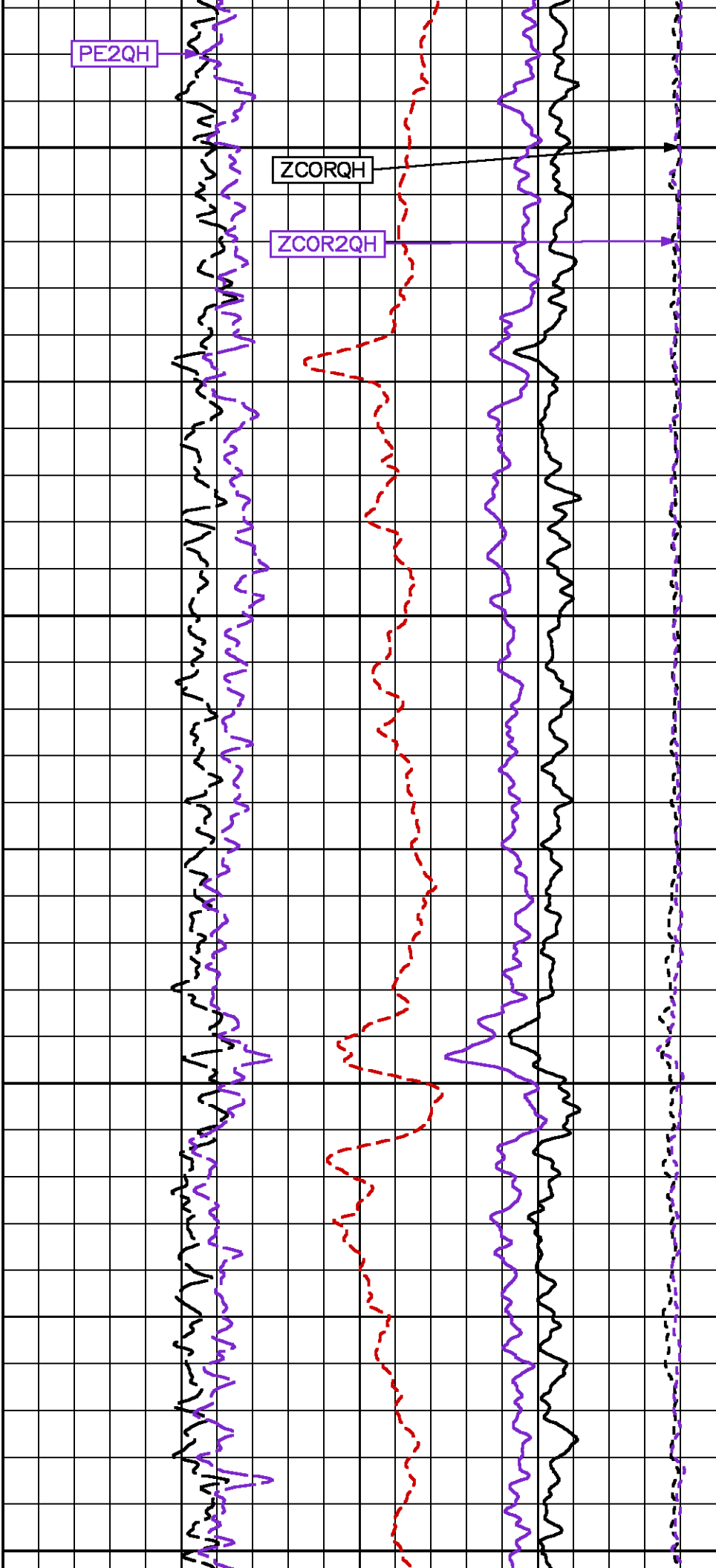
Presentation : cpu1:/dat1a/pass/nalcor_run1/zdl2_hires_ss.pdf [1:120 Scale]
Plot Interval : 545 - 2283.94 Meters

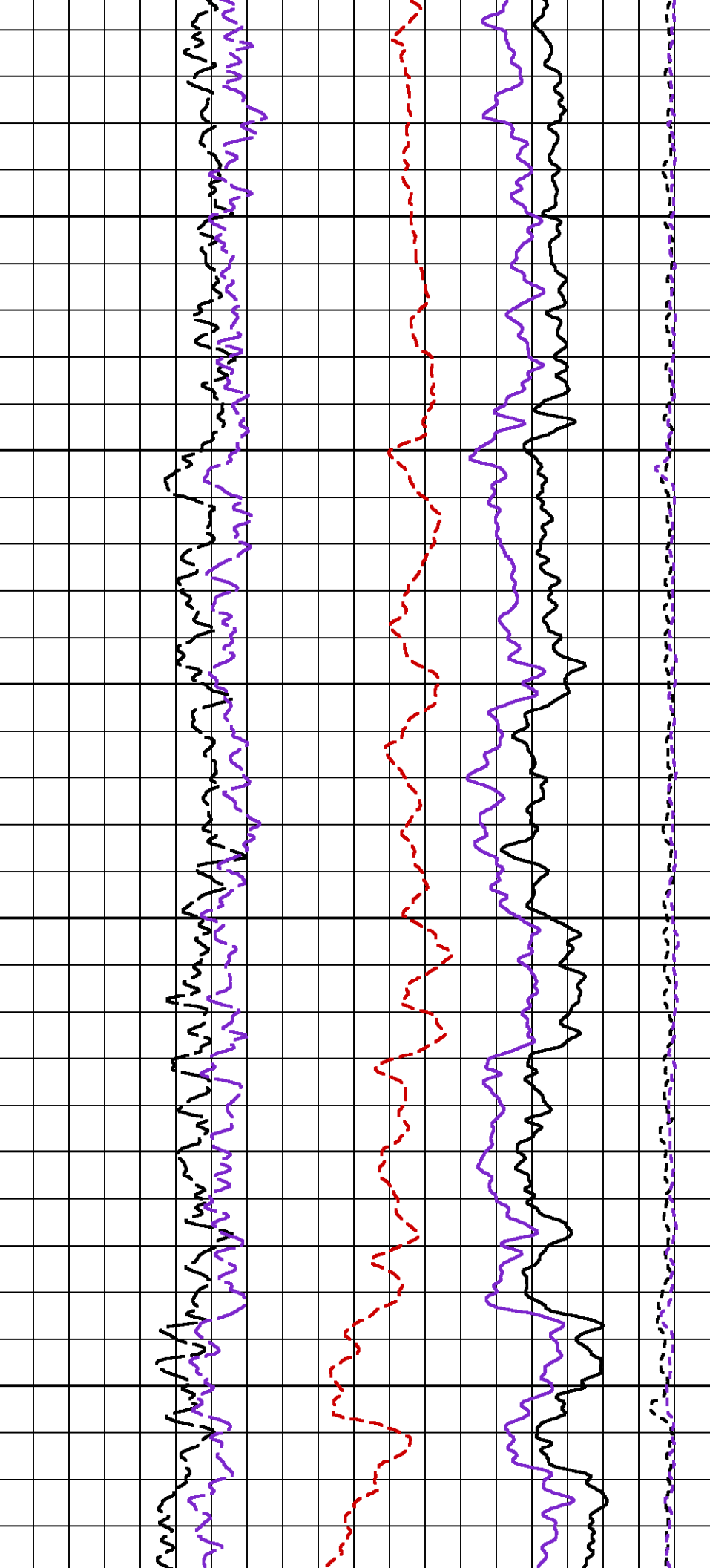
Data File 1 : F1 : cpu1:/dat1a/pass/nalcor_run1/r1t2_mainl.xtf
Created On : Nov 3 01:15:13 2010
Company : NALCOR ENERGY
Well : NALCOR ET AL FINNEGAN 31
Field : FINNEGAN
File Interval : 504.749 - 2283.98 Meters
Oct : m980g

GR BACKUP	METERS	
TOOL STICKING		
XCAL < BIT		





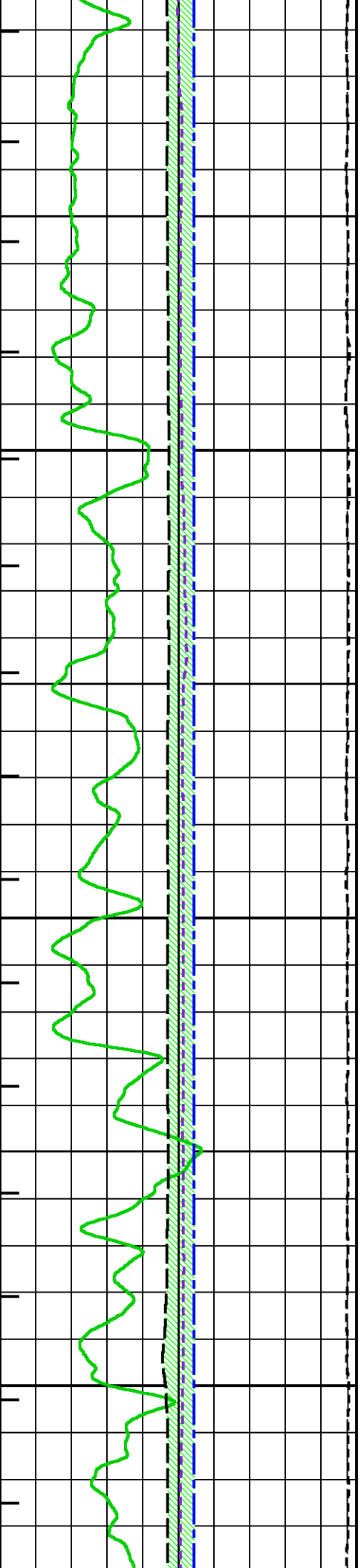


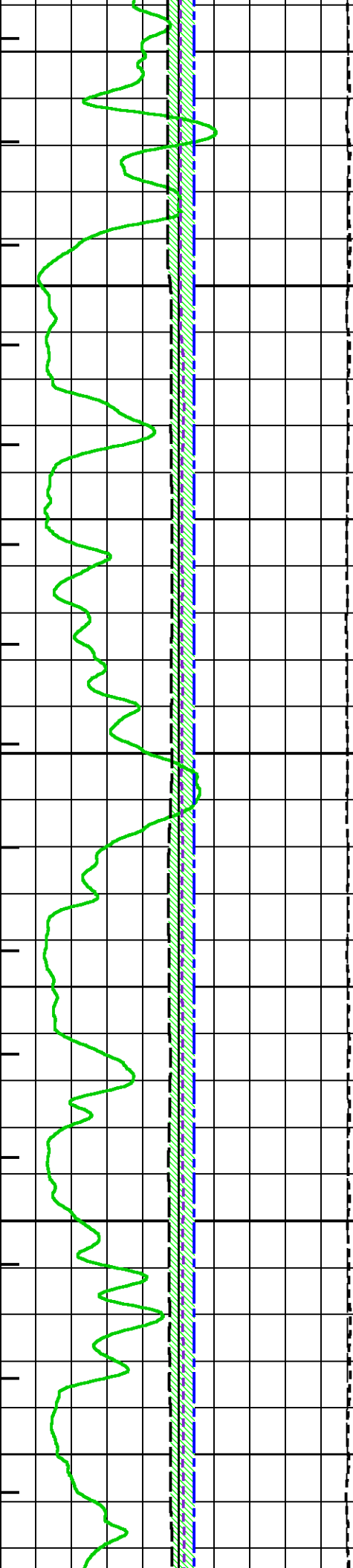


640

650

660

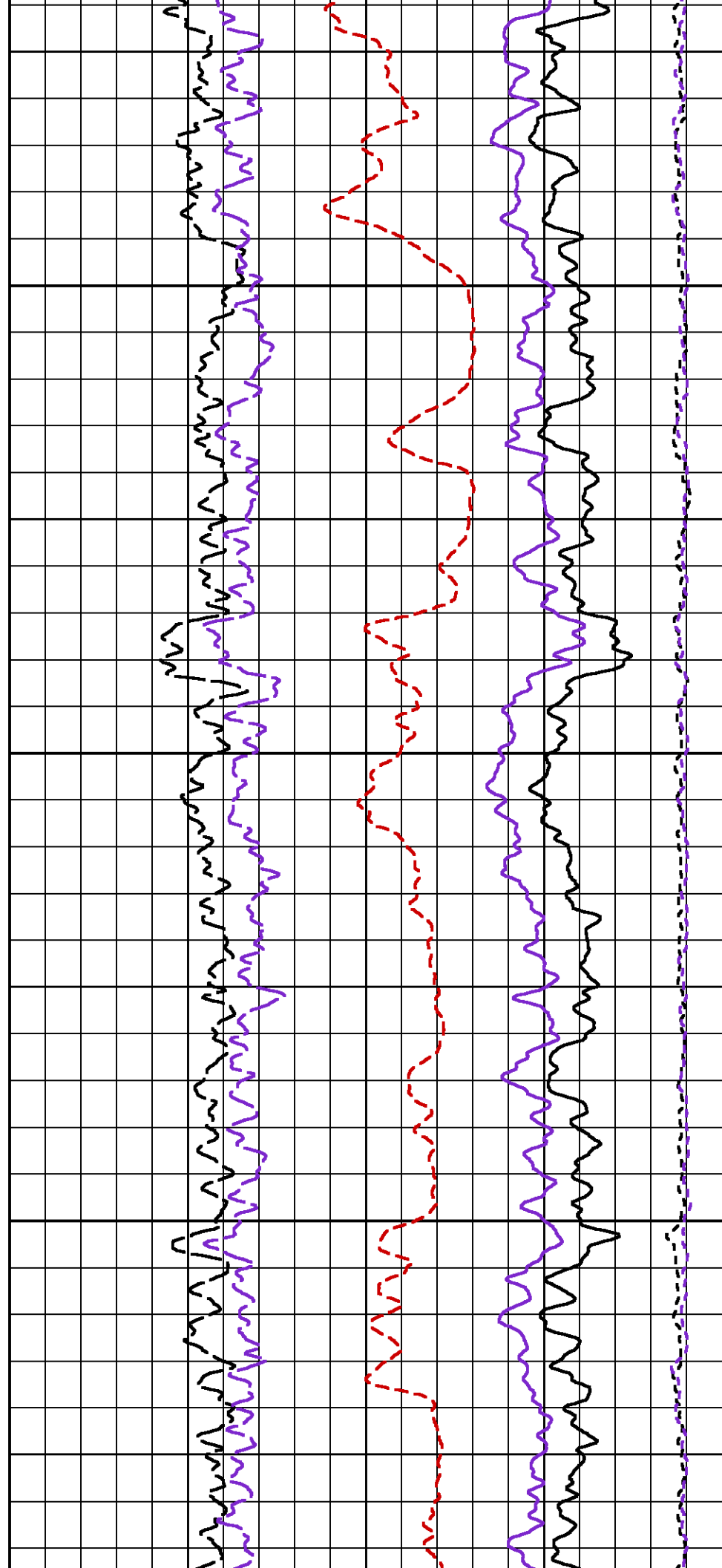


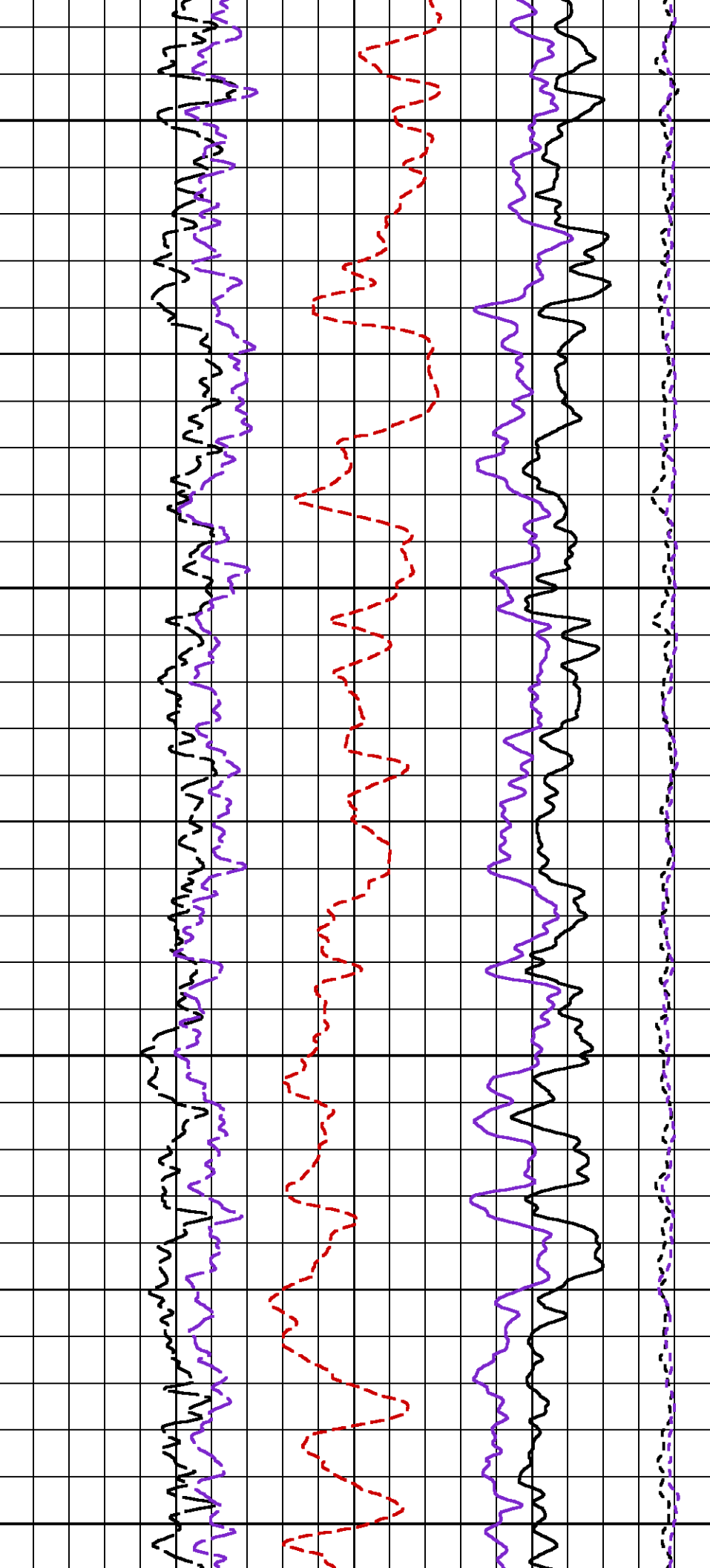


670

680

690



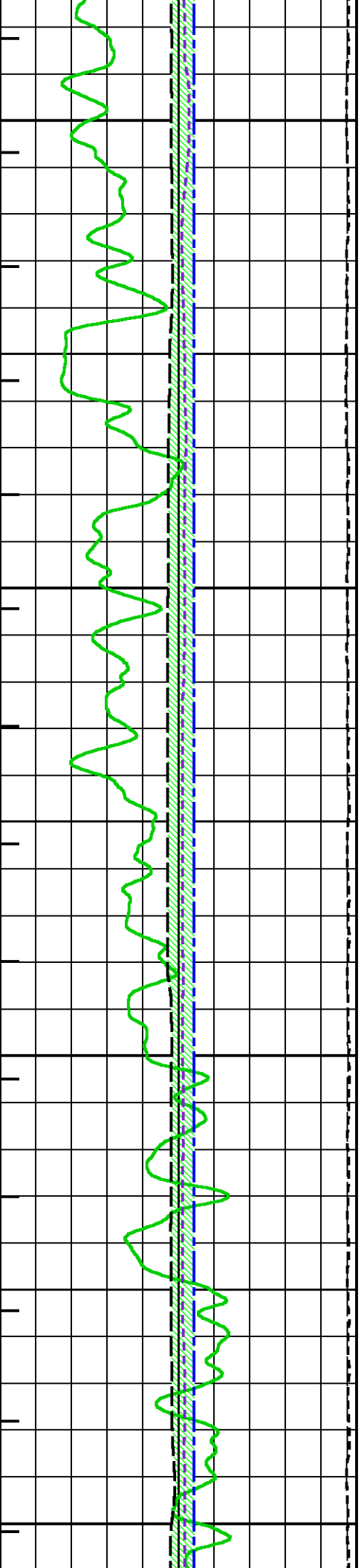


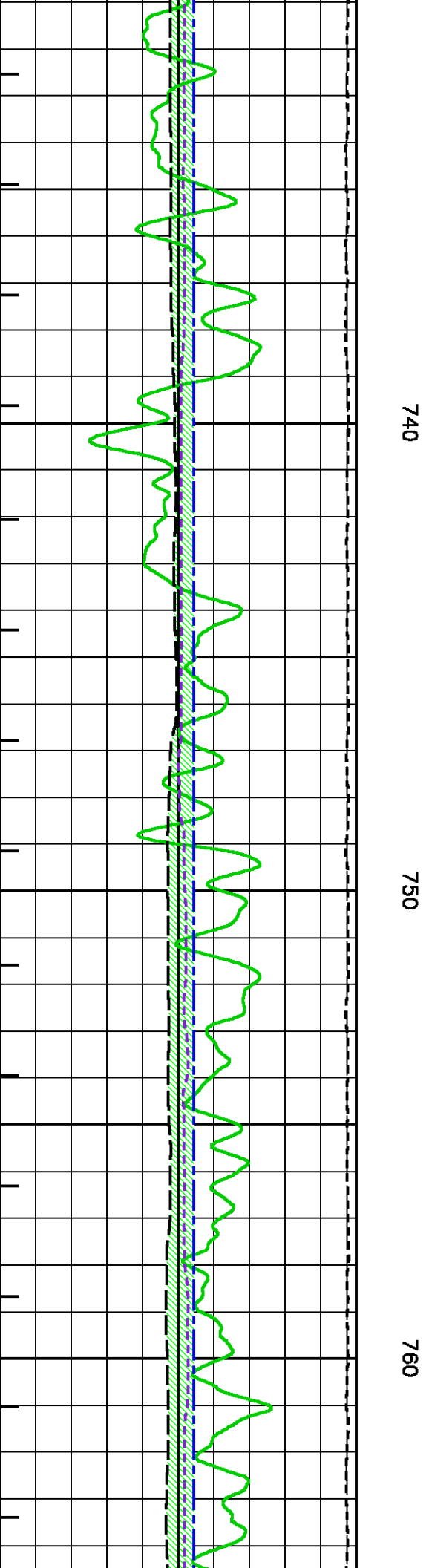
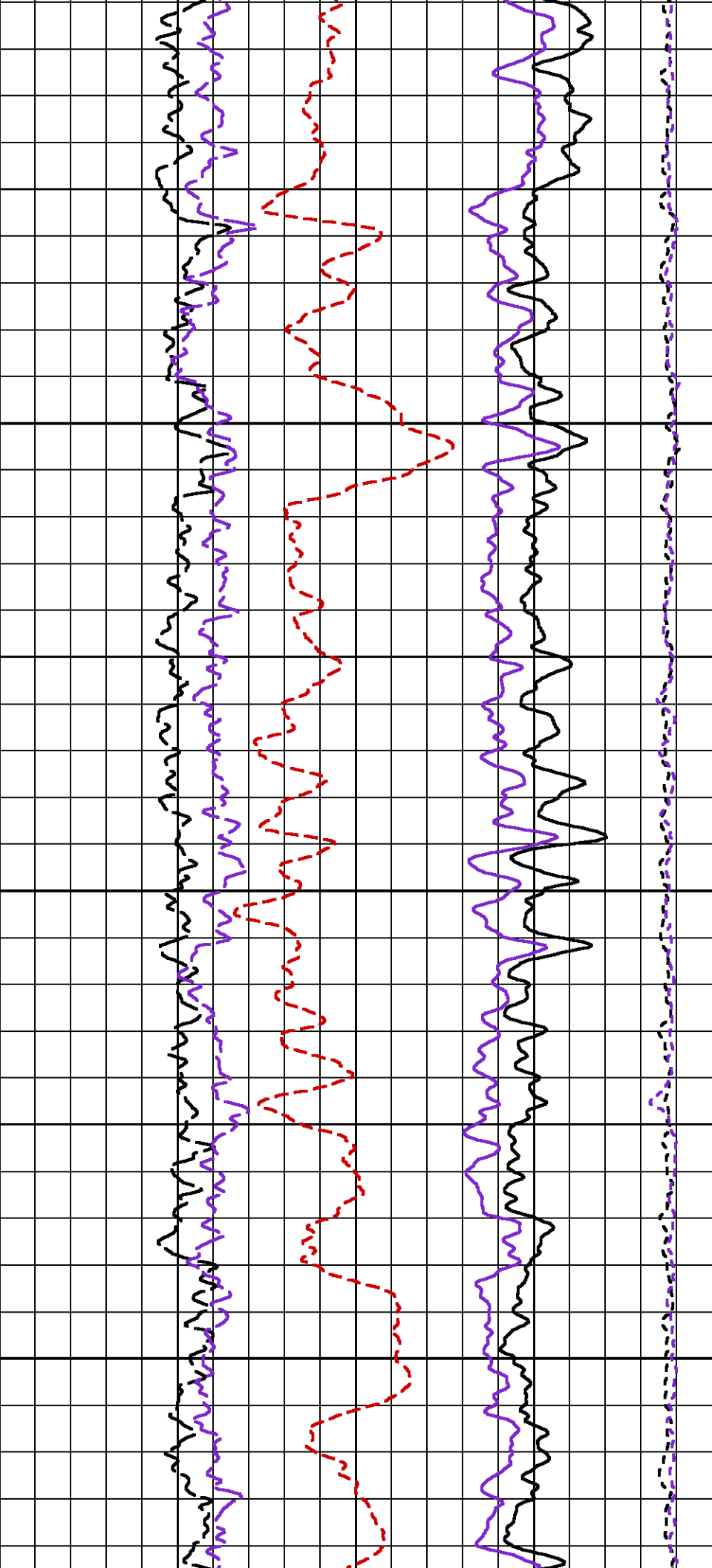
700

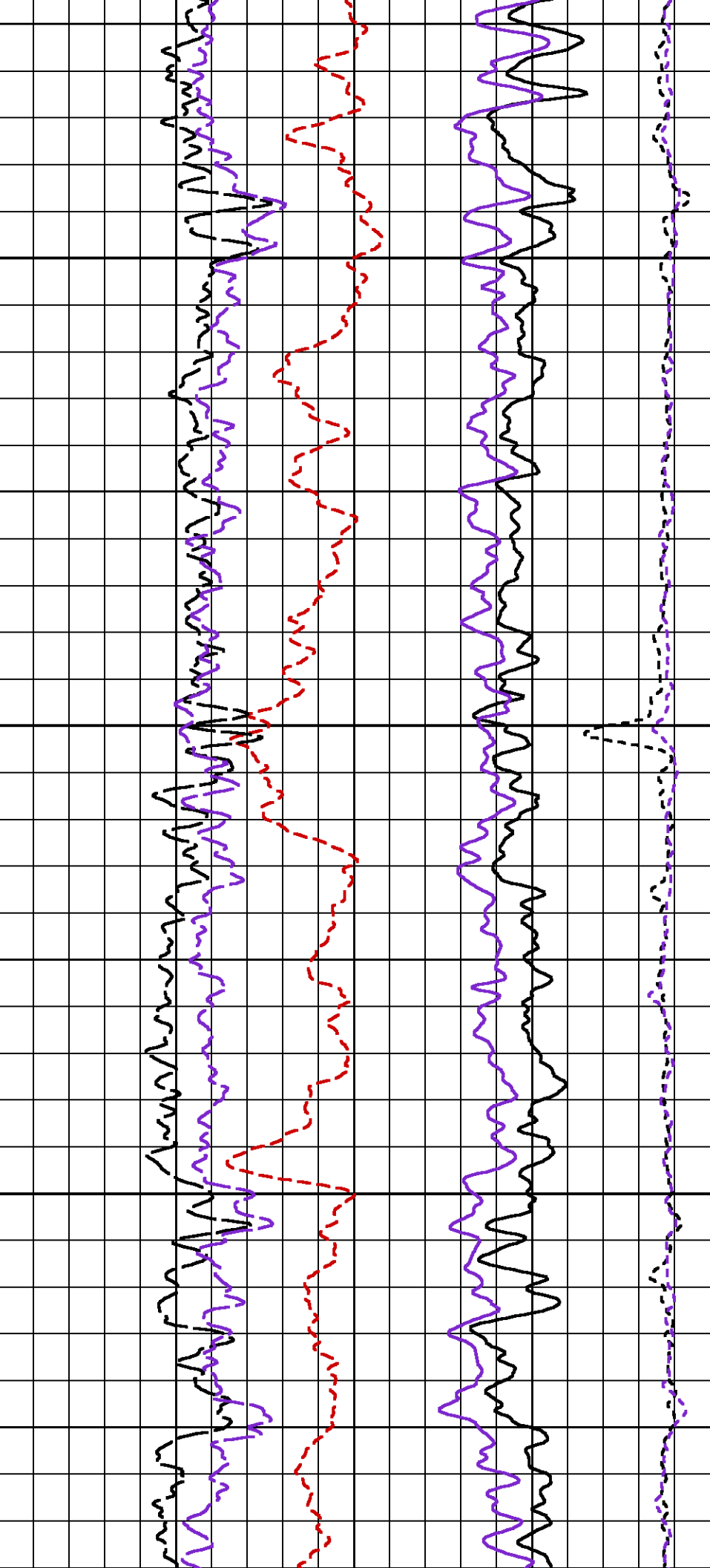
710

720

730



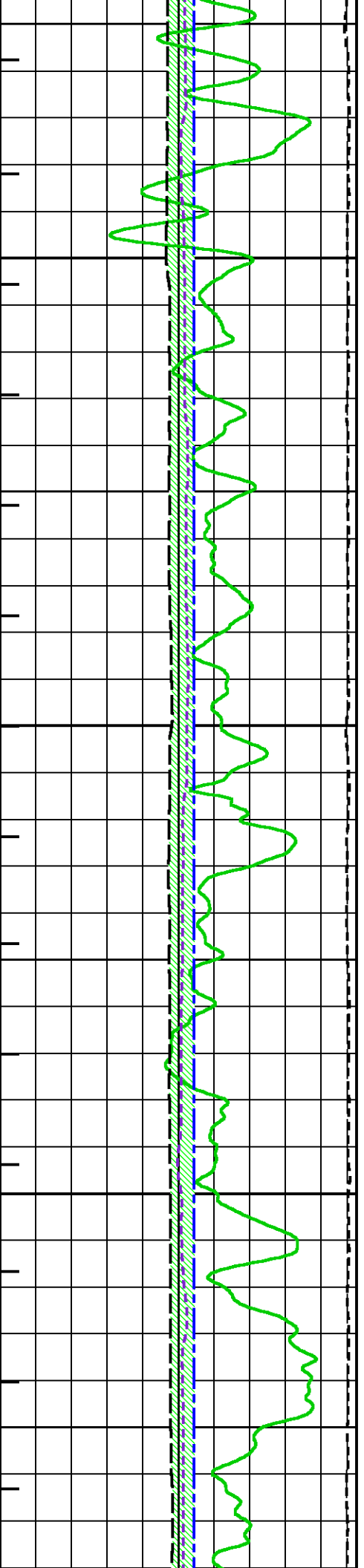


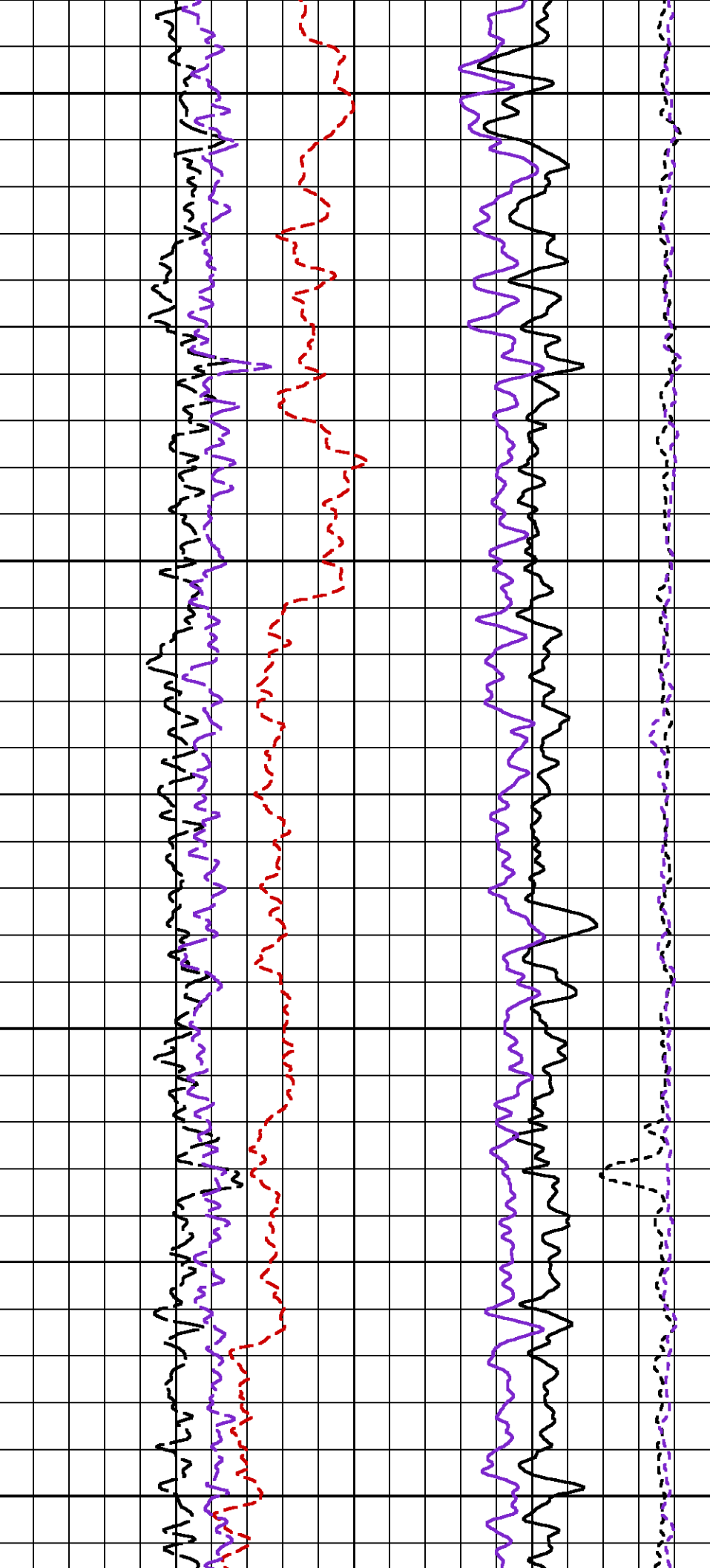


770

780

790



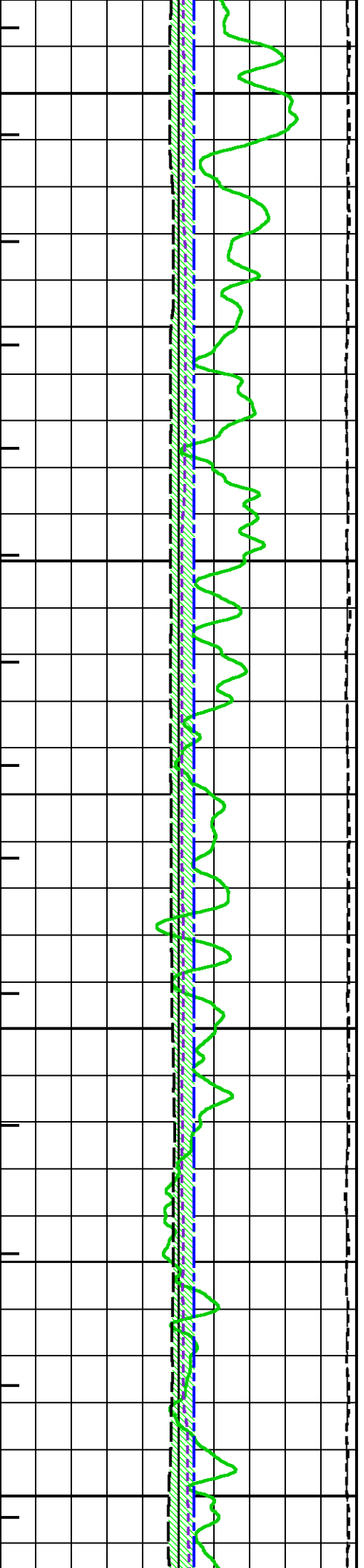


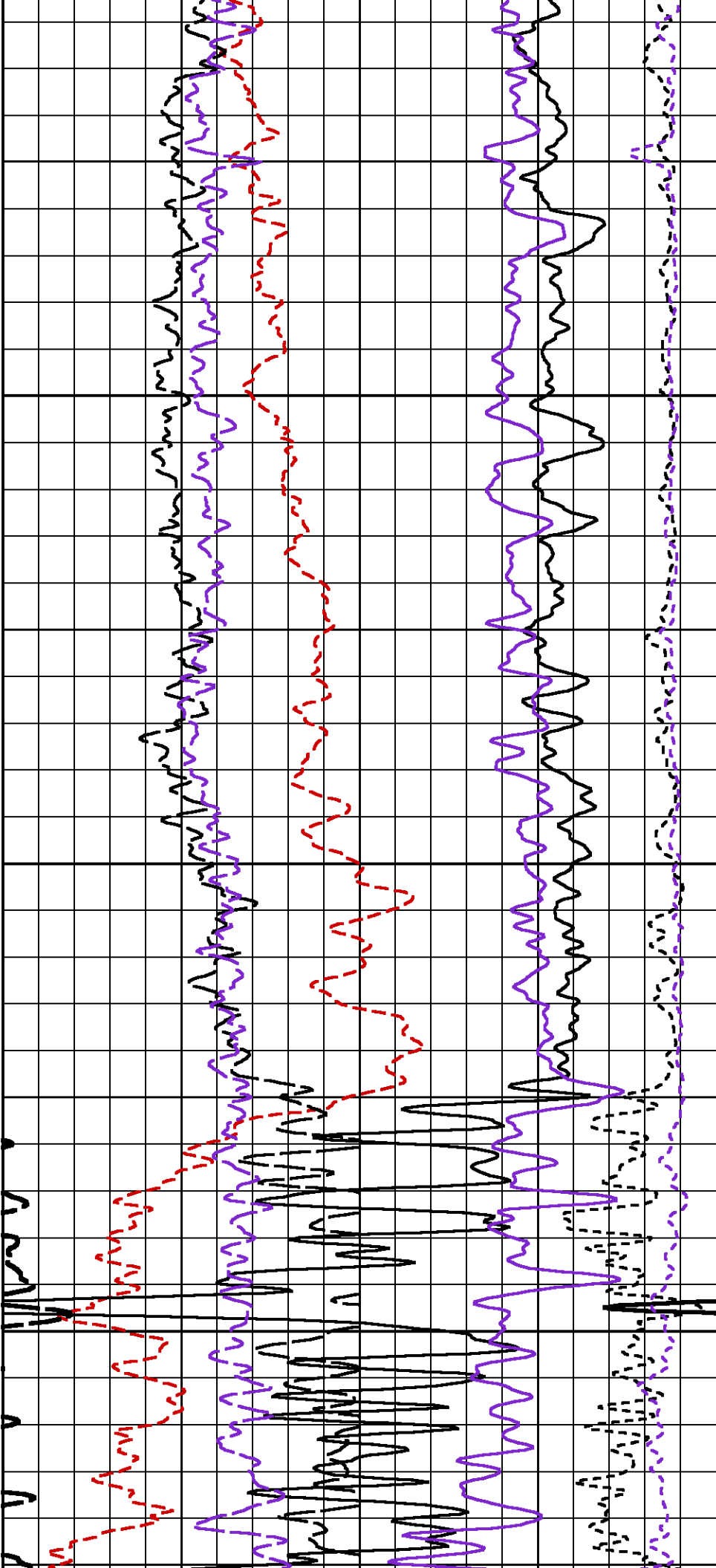
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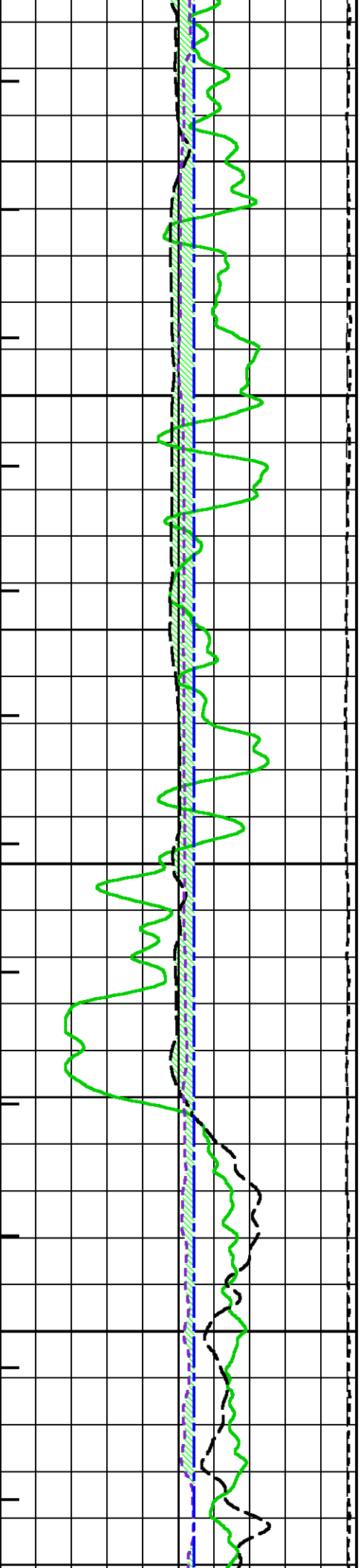


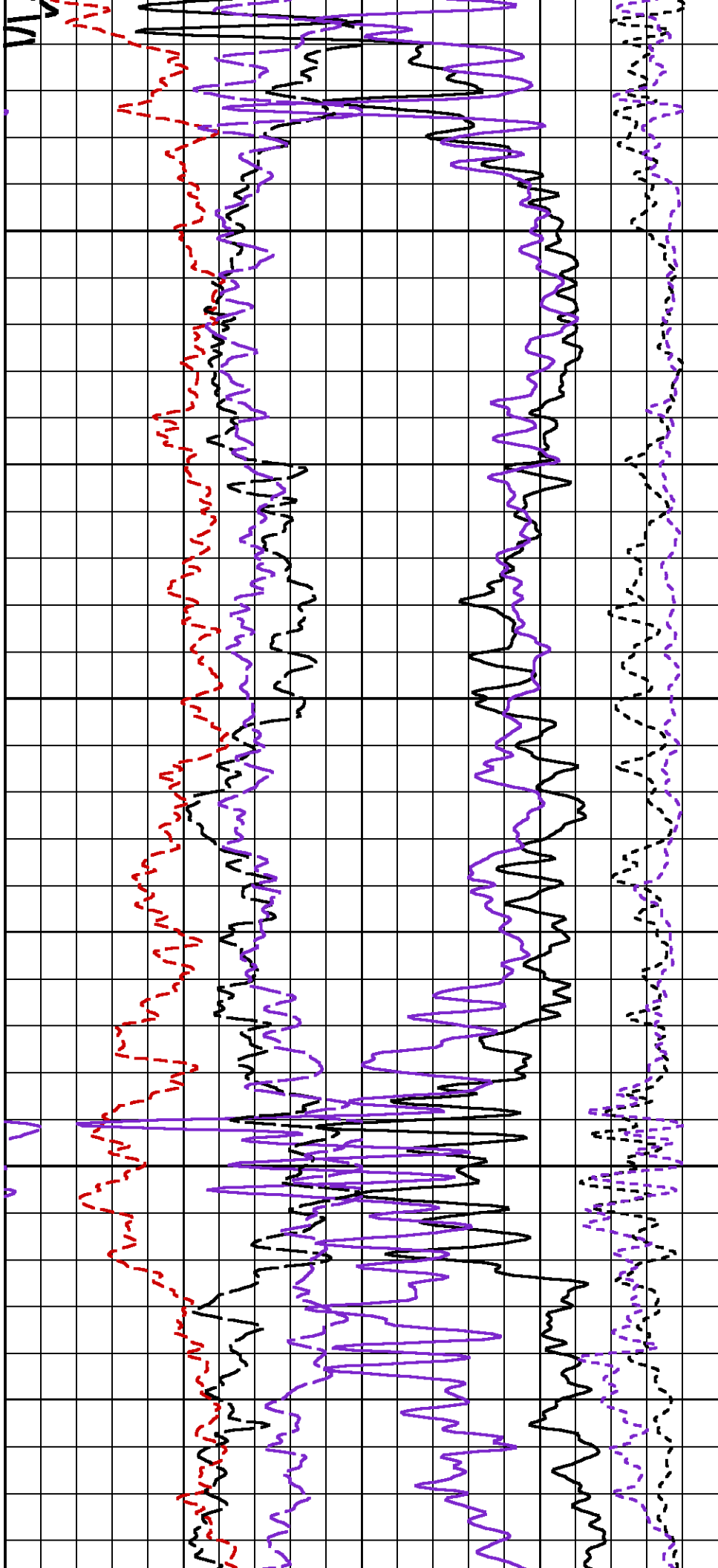


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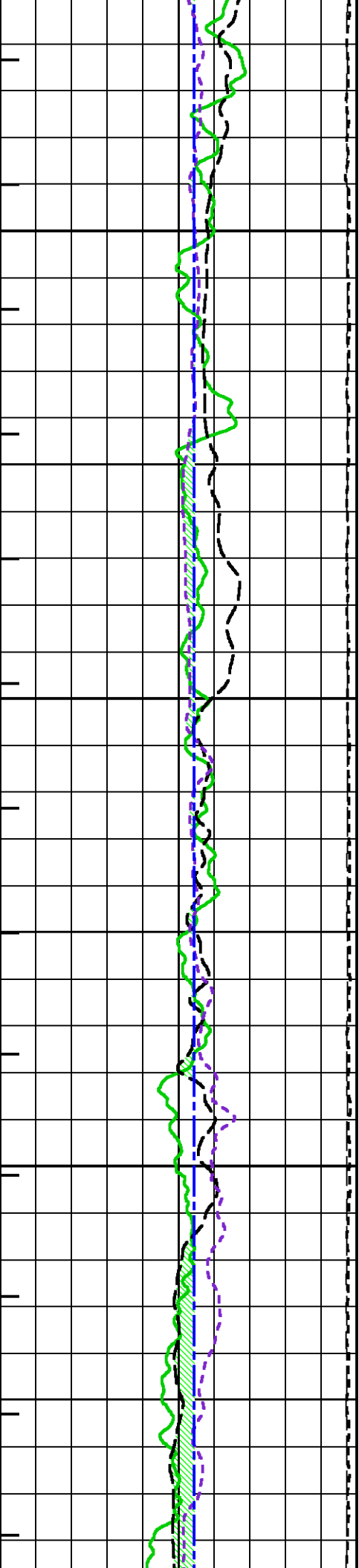


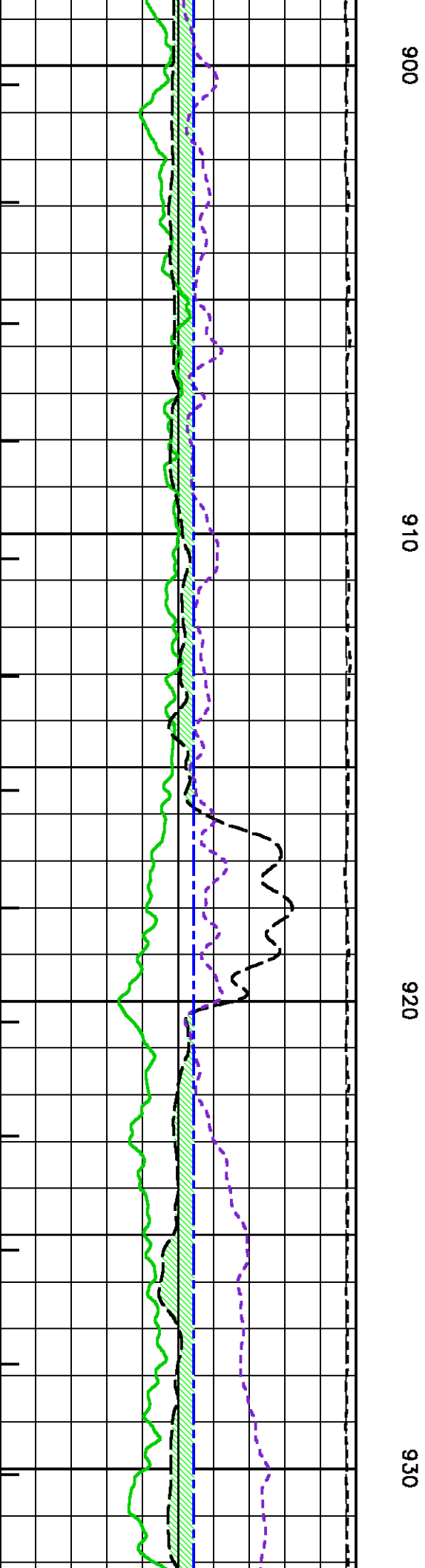
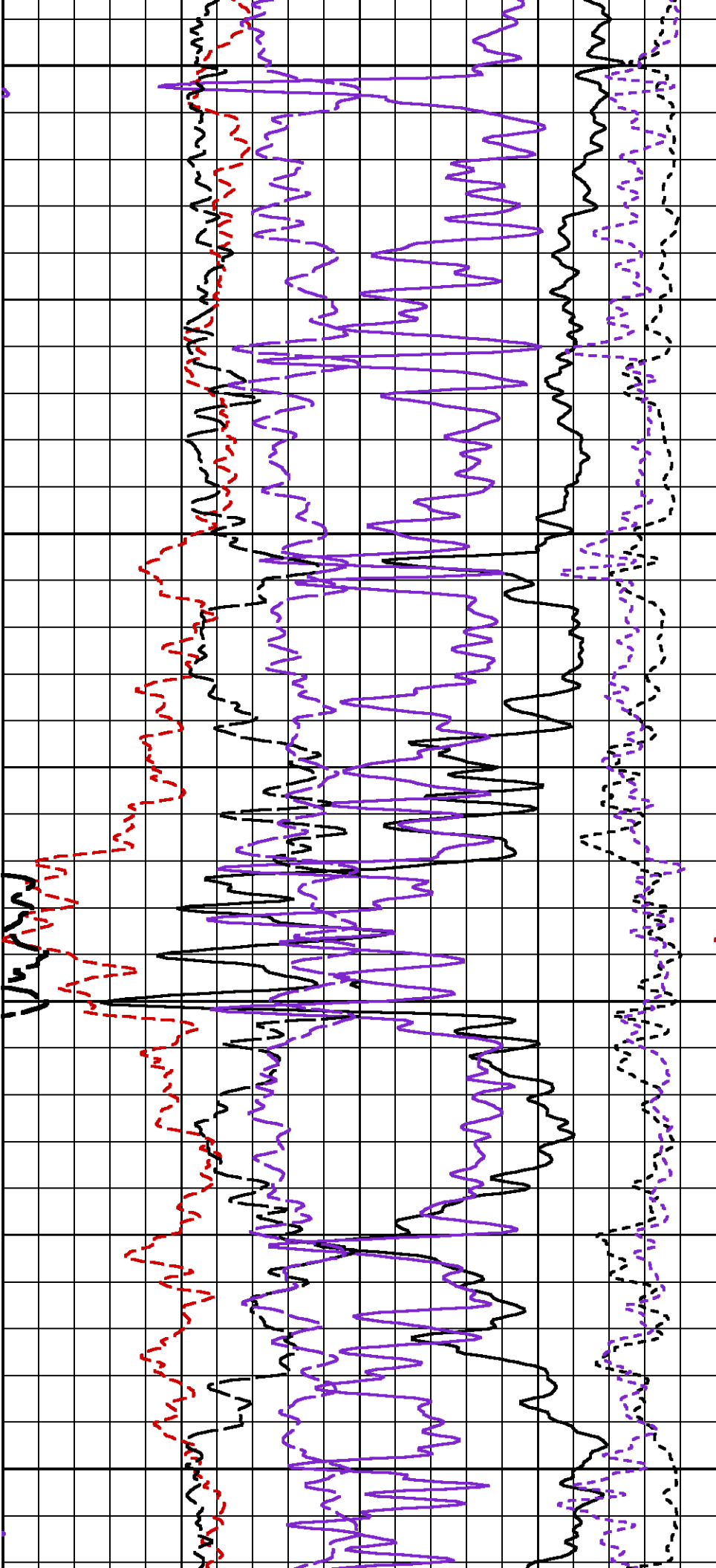


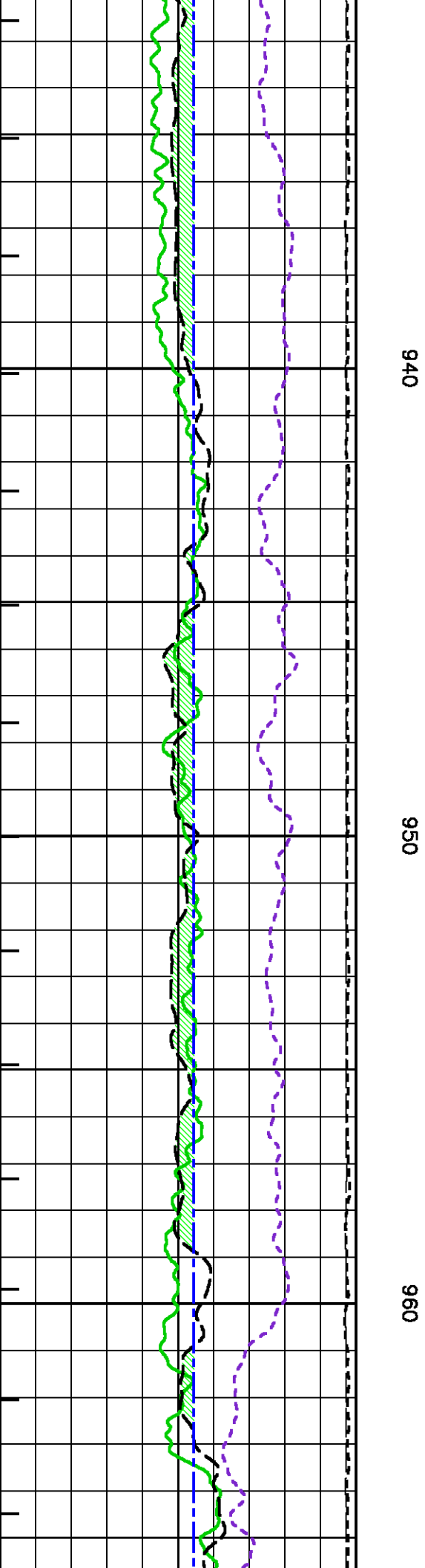
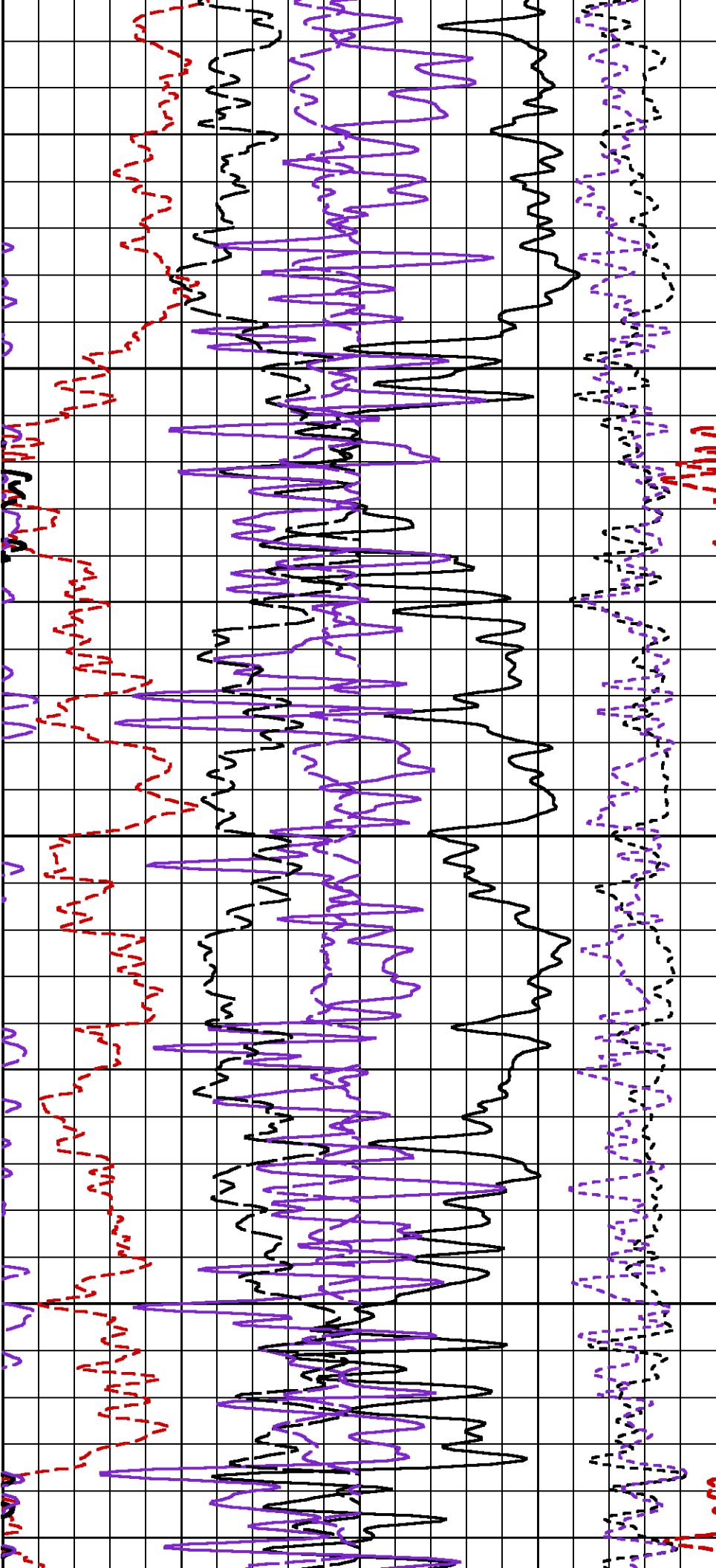
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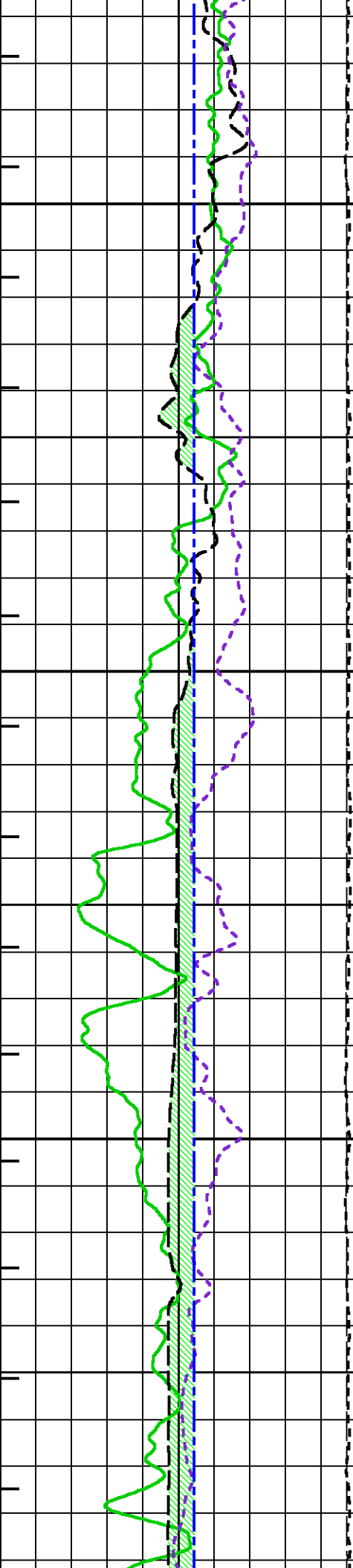
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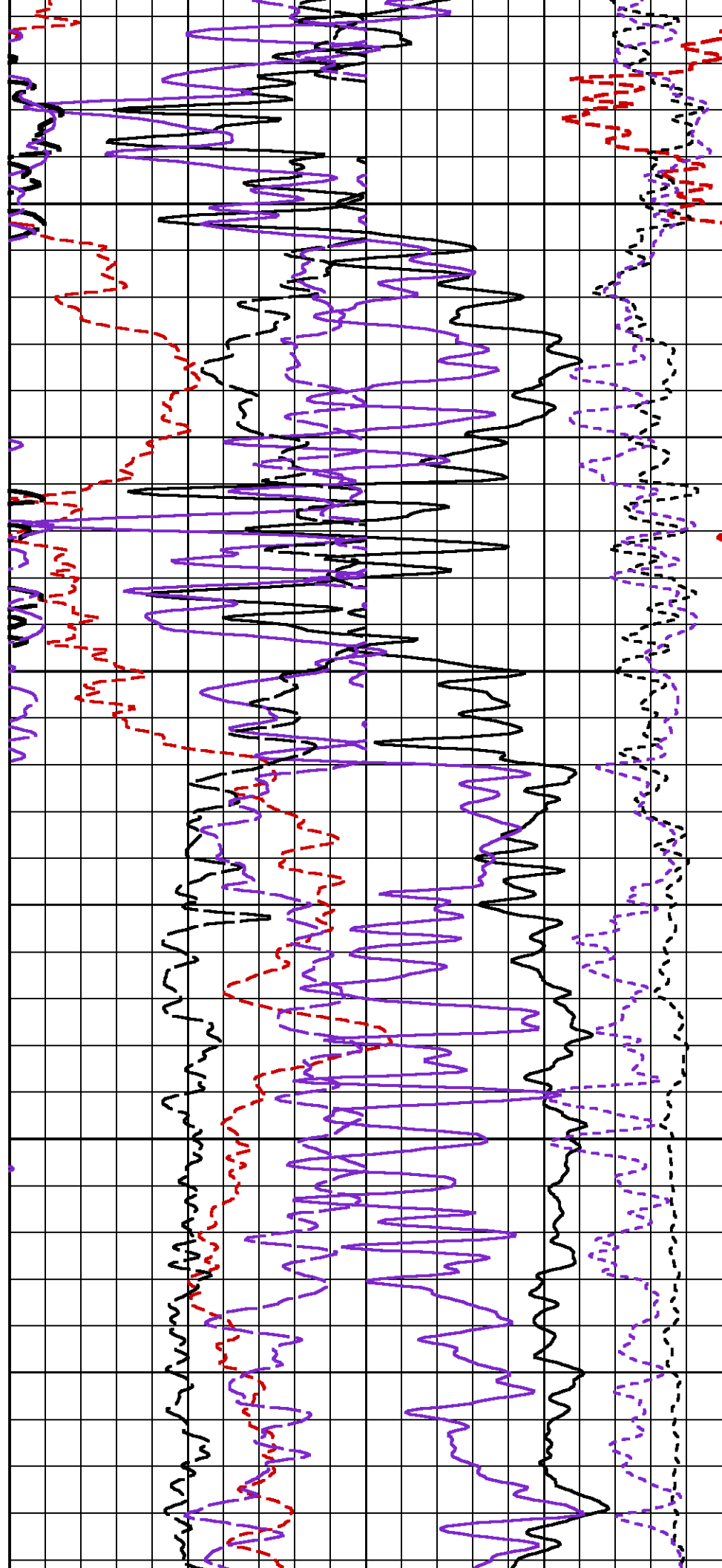


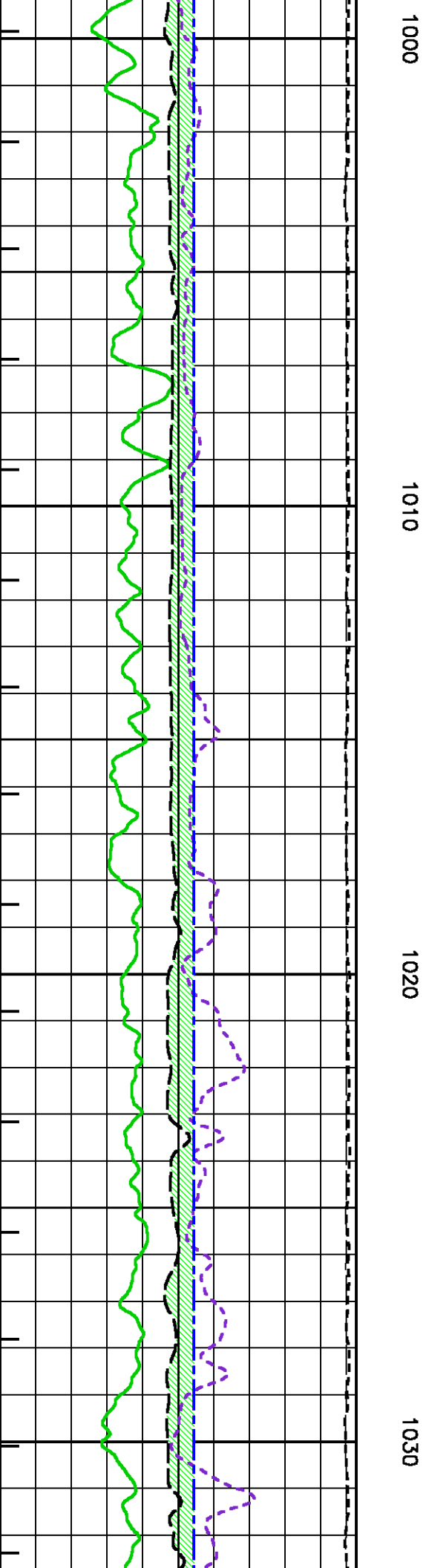
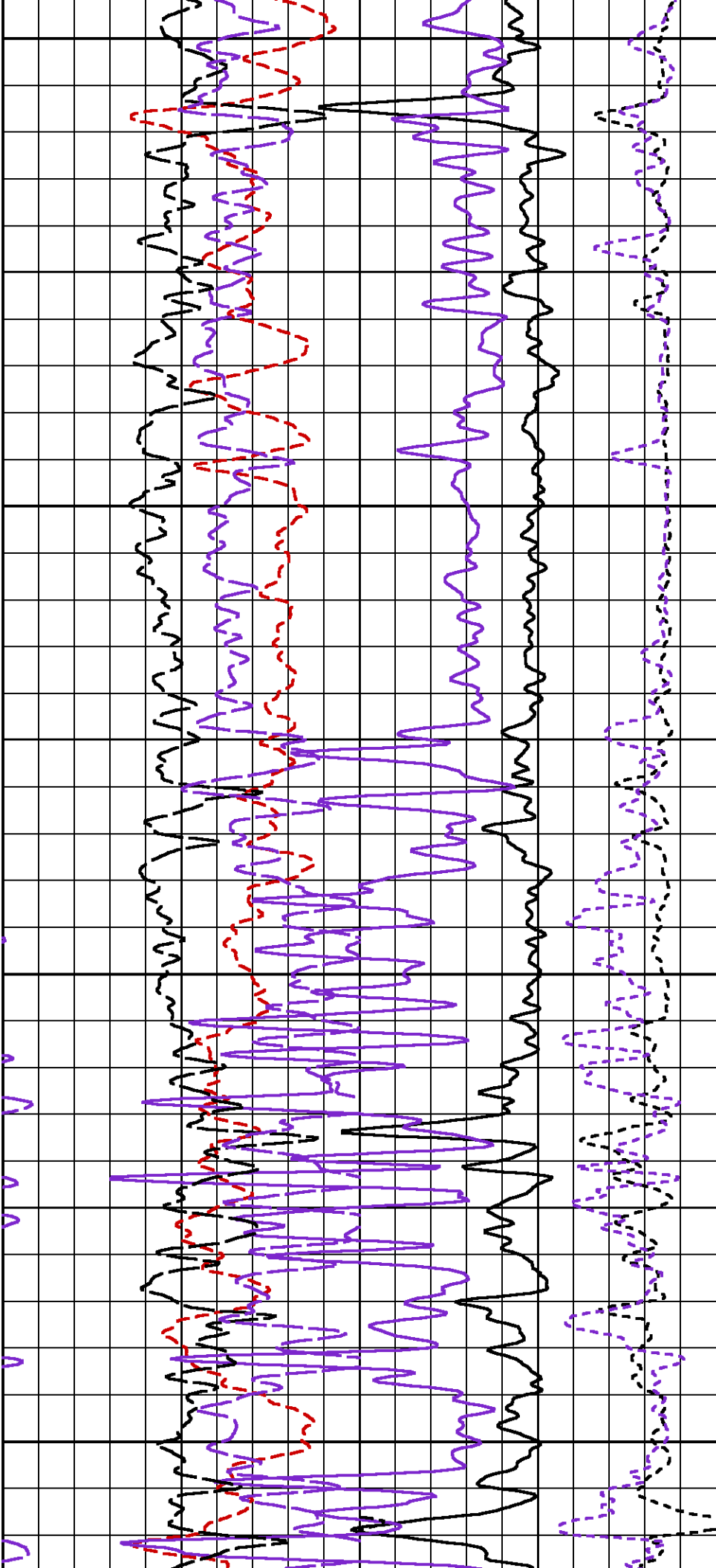


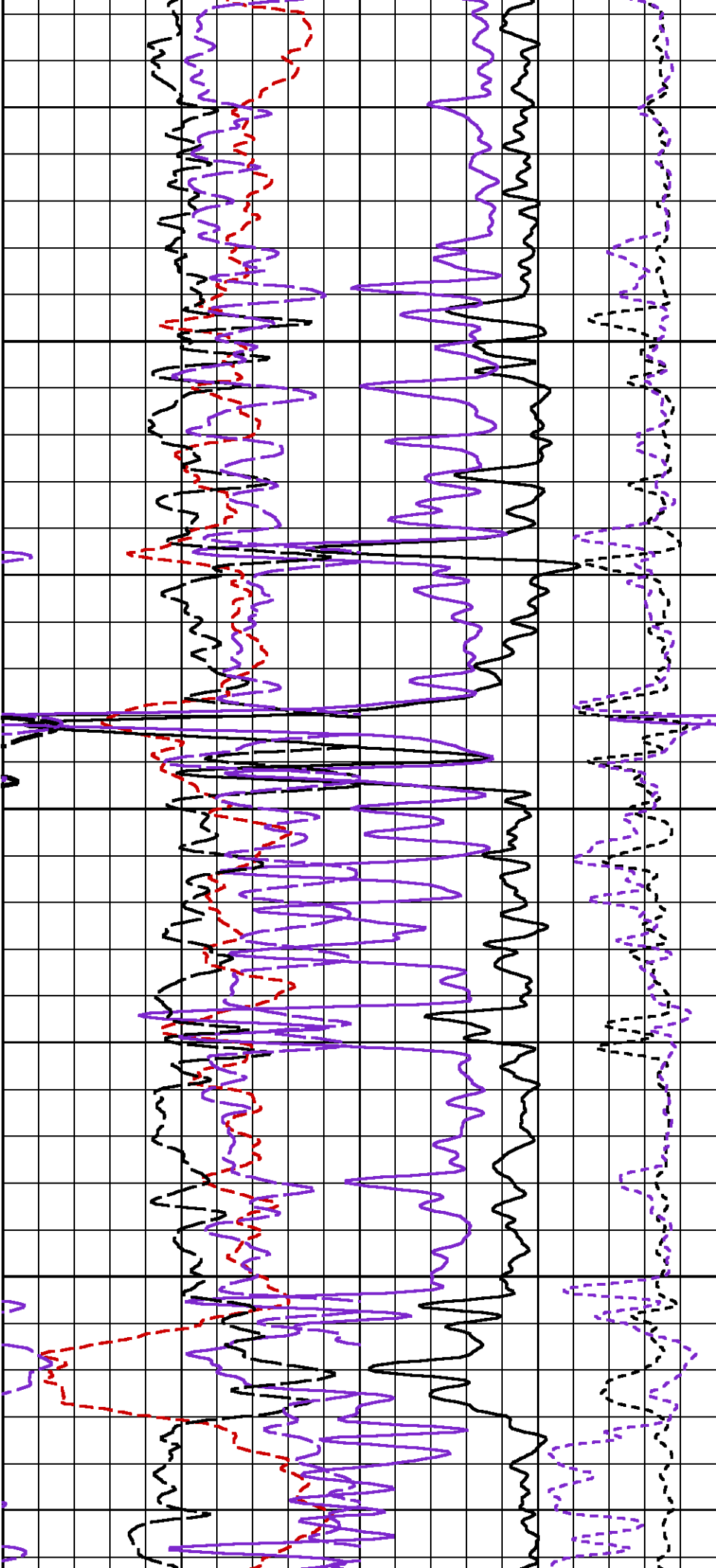
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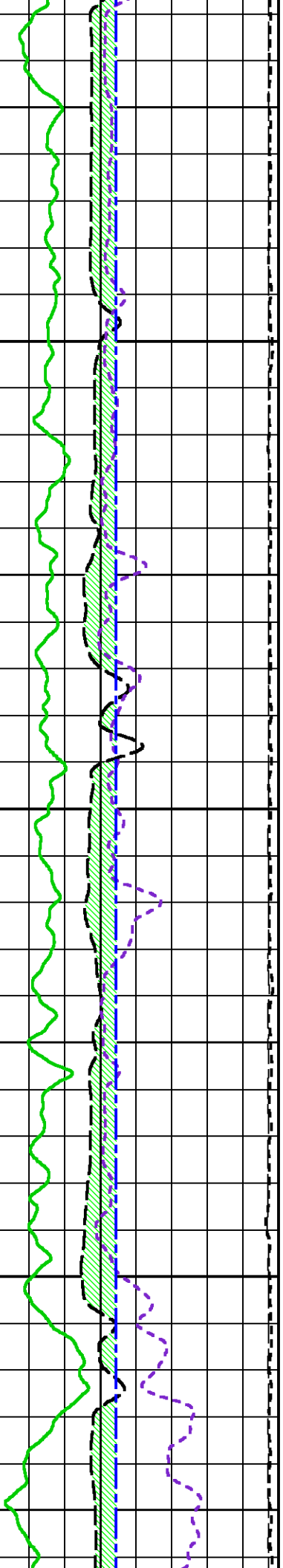


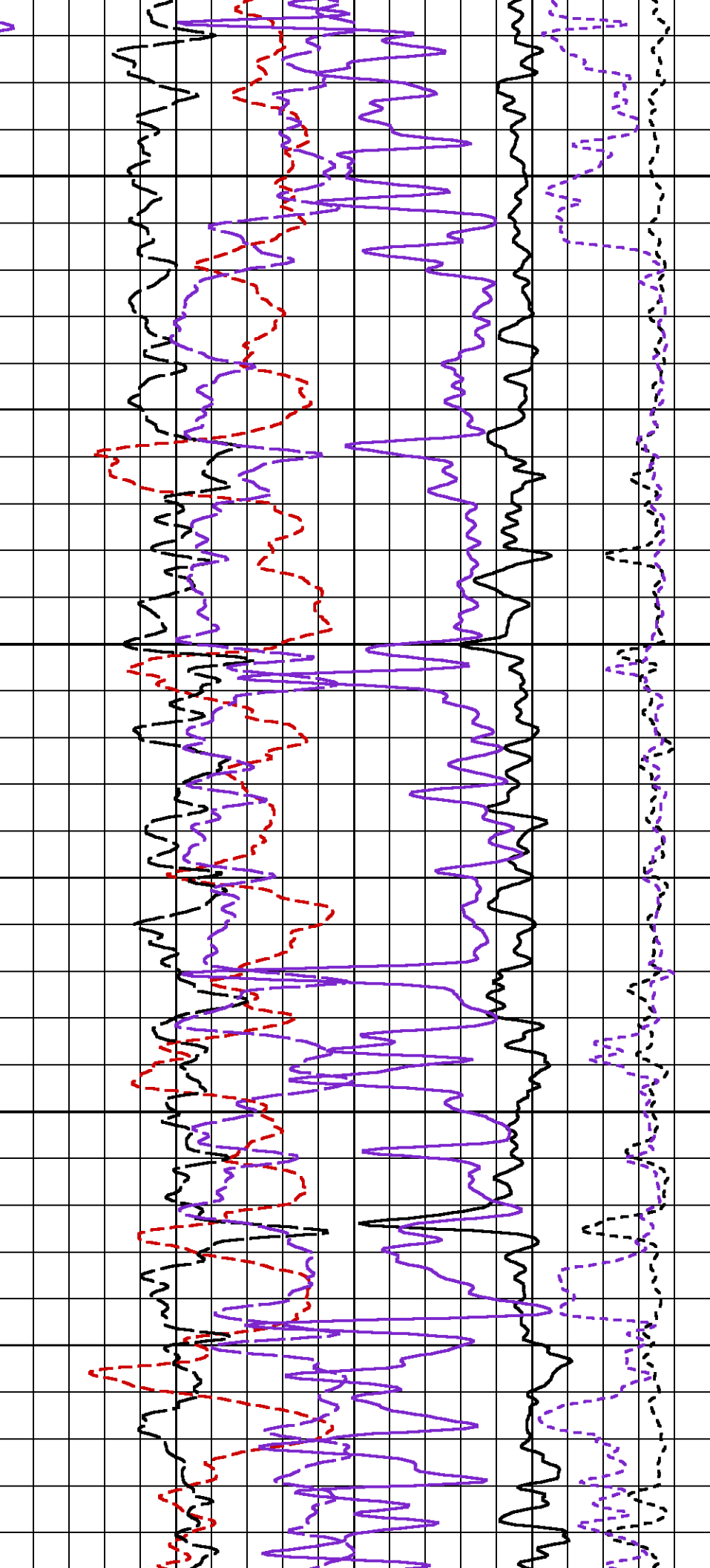


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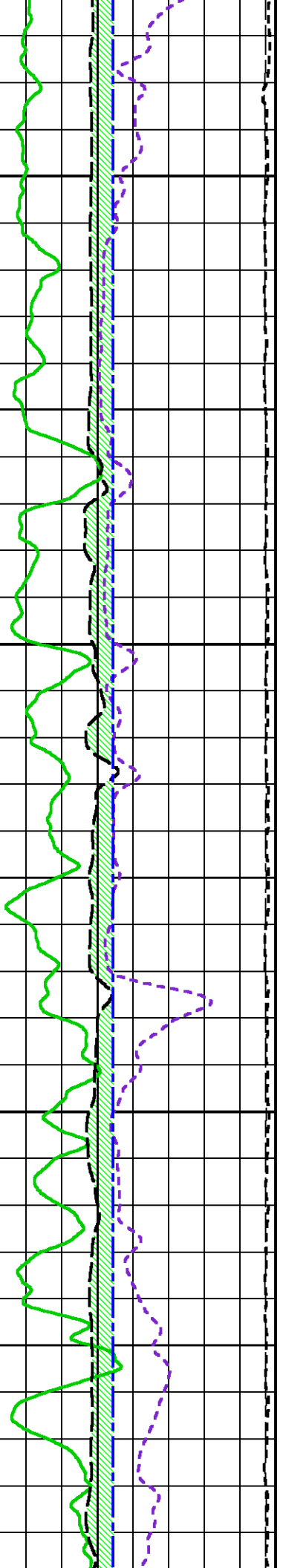


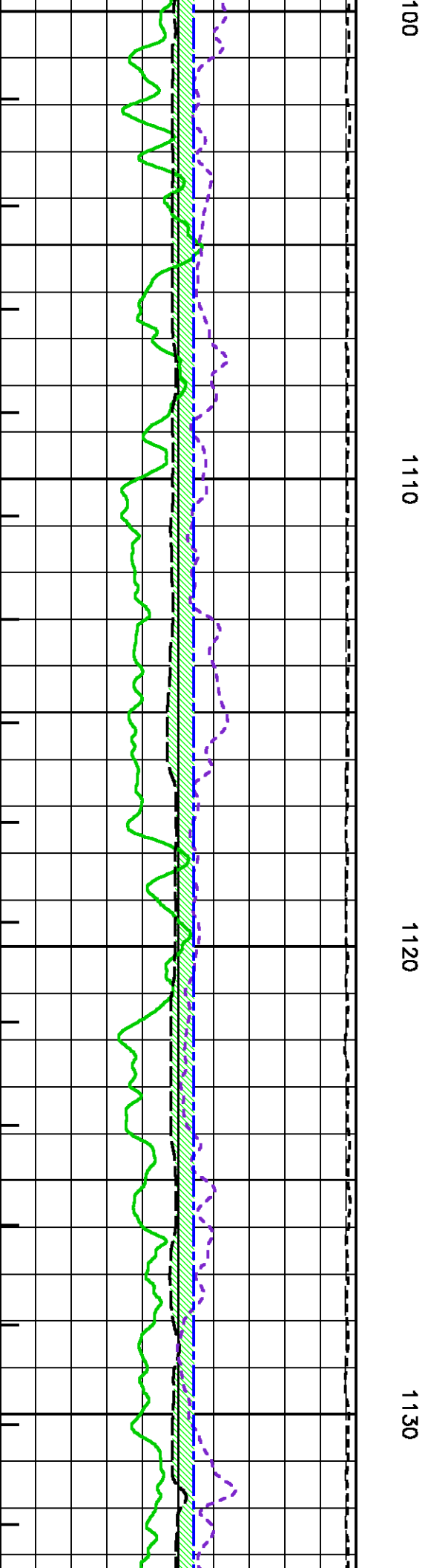
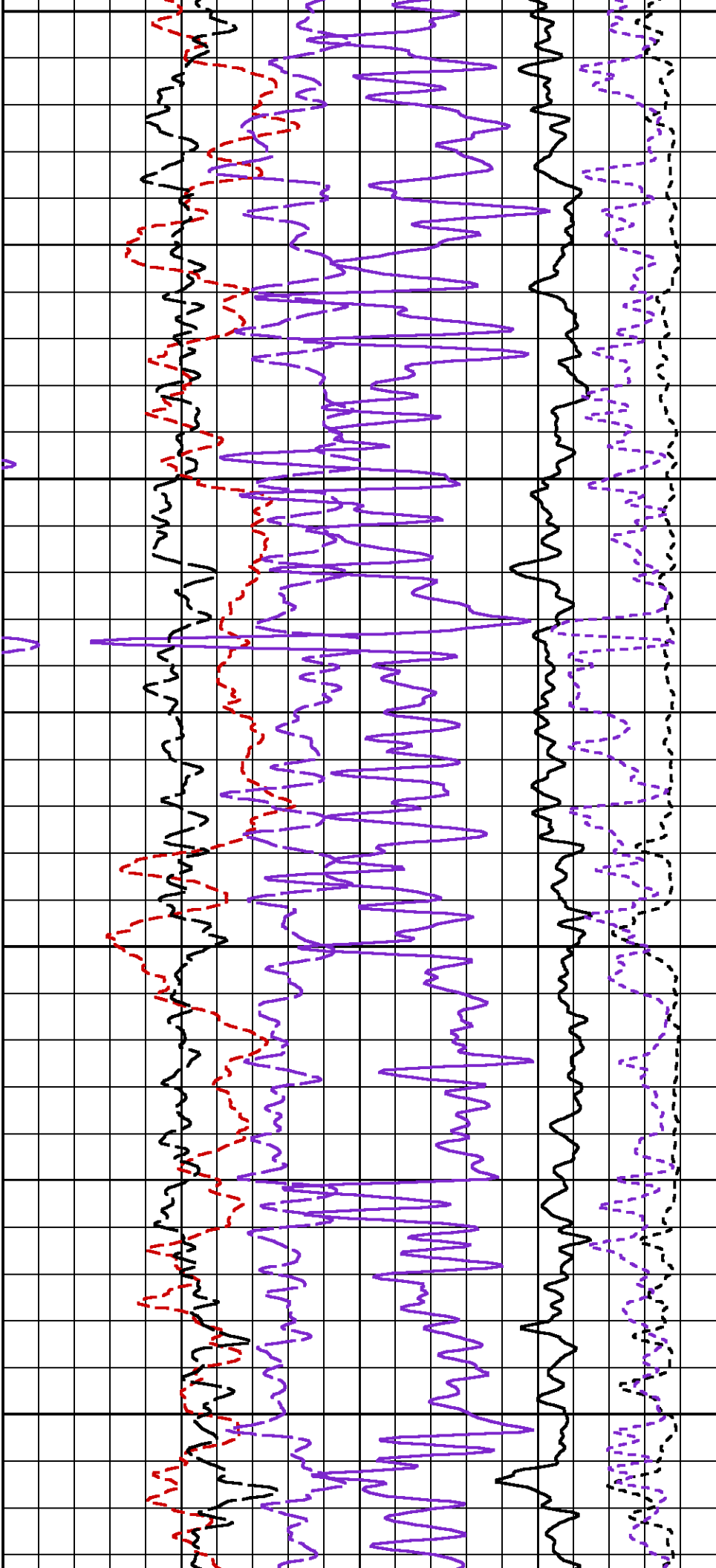
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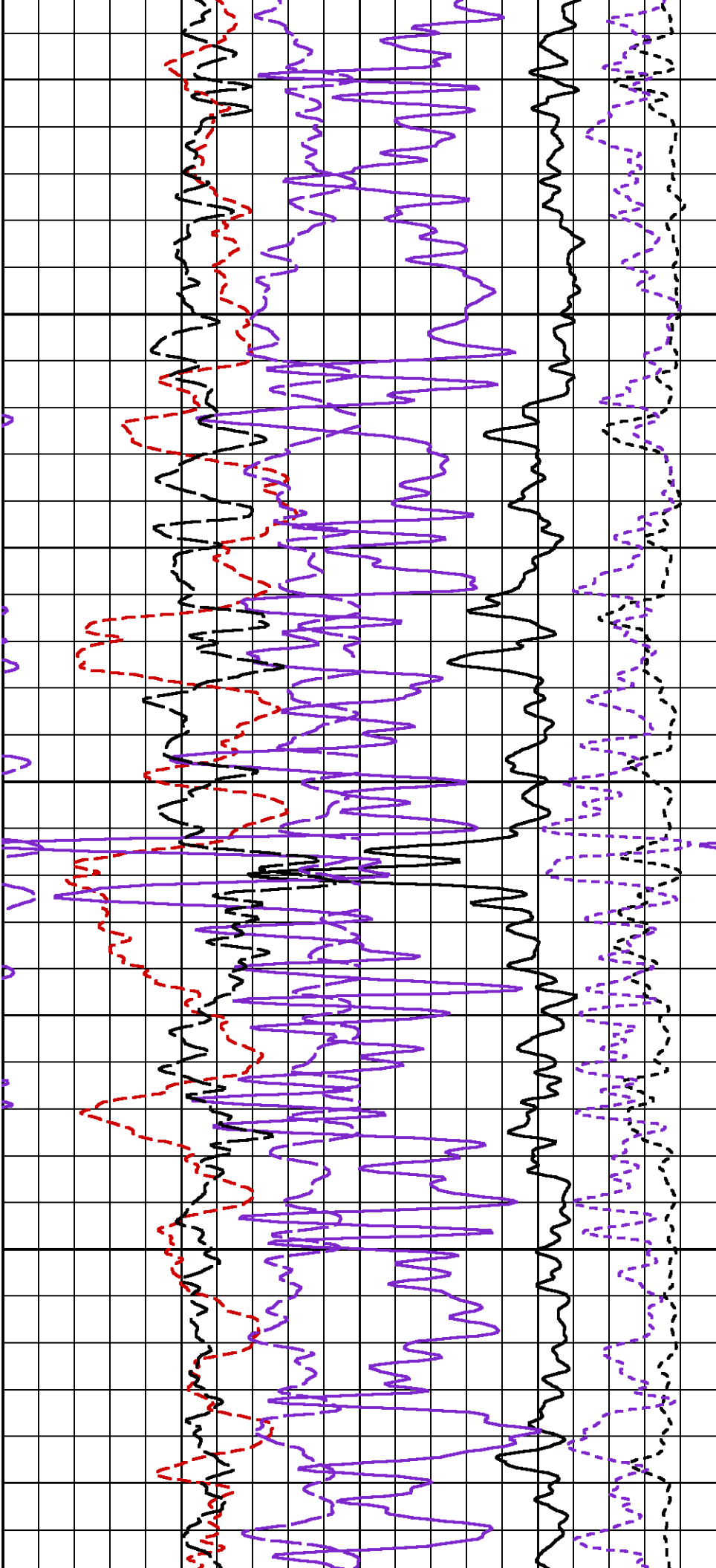
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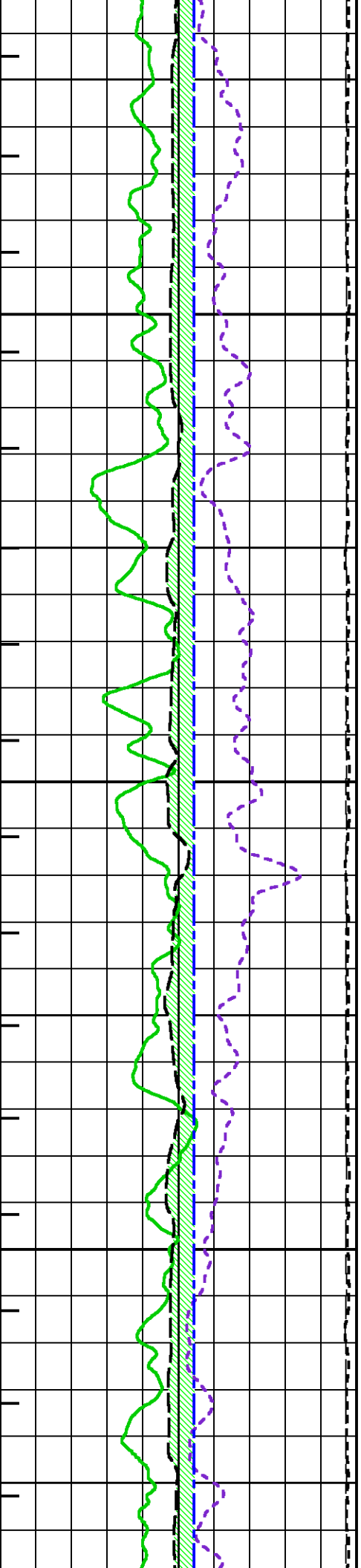


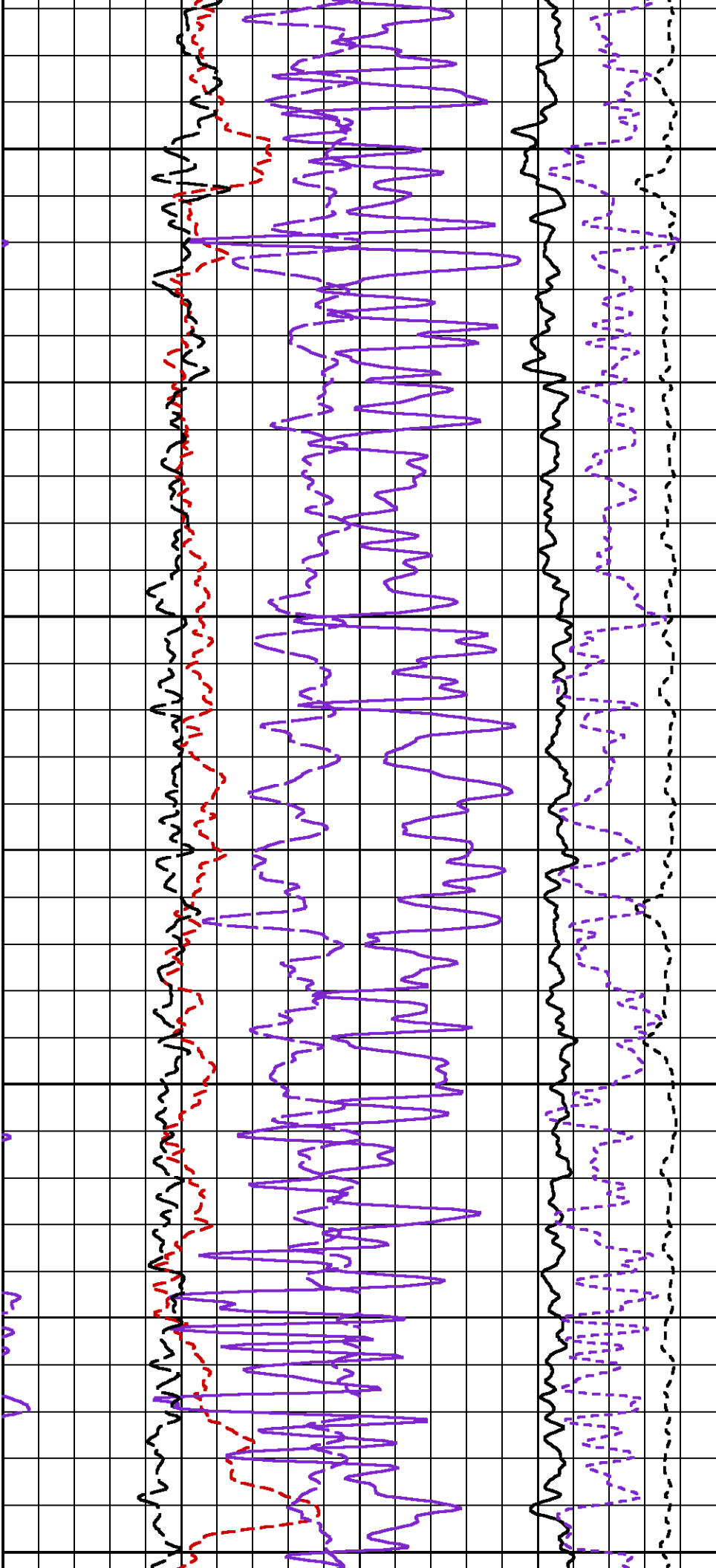


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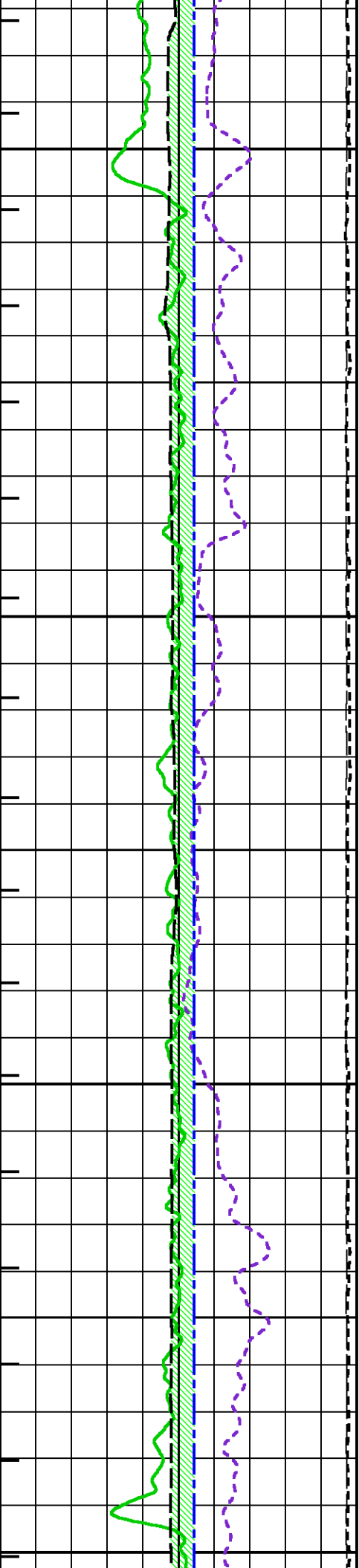


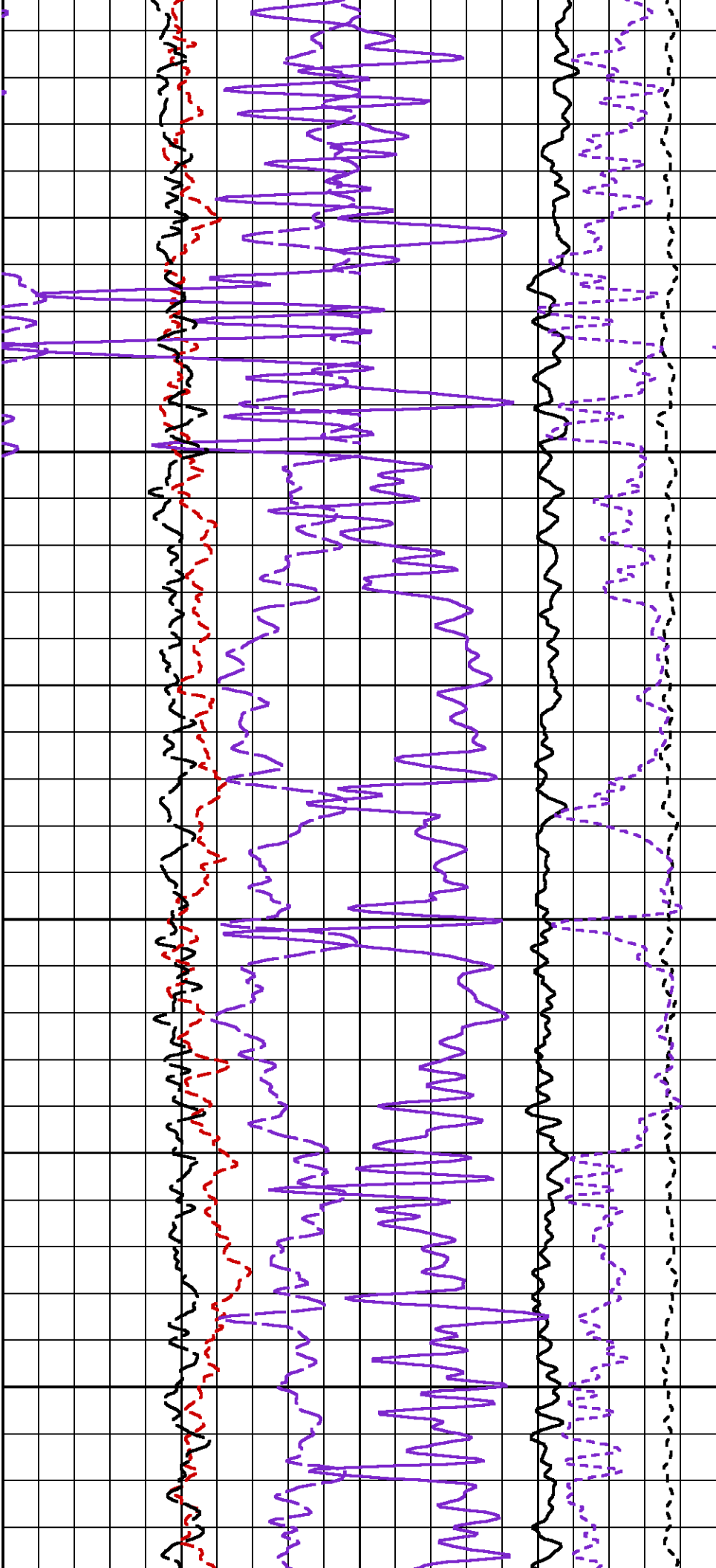
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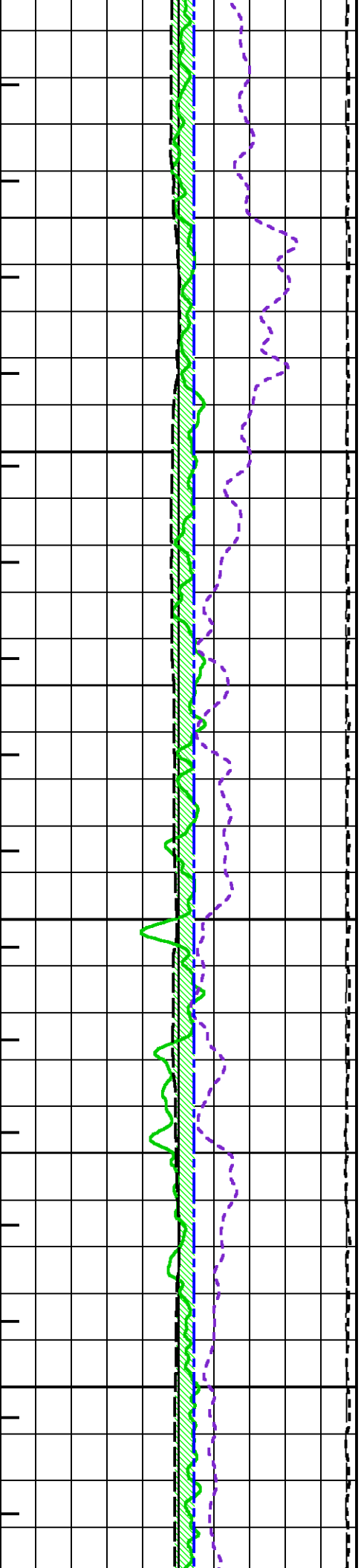


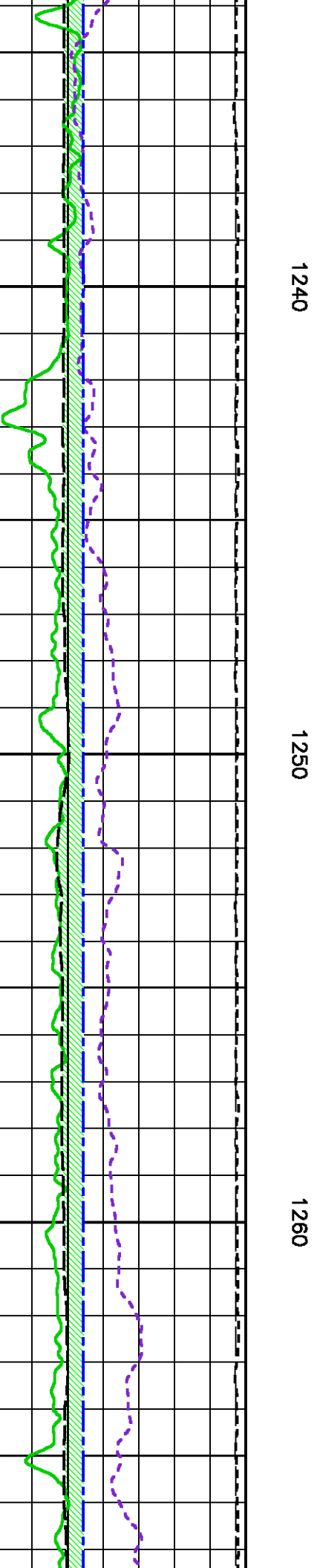
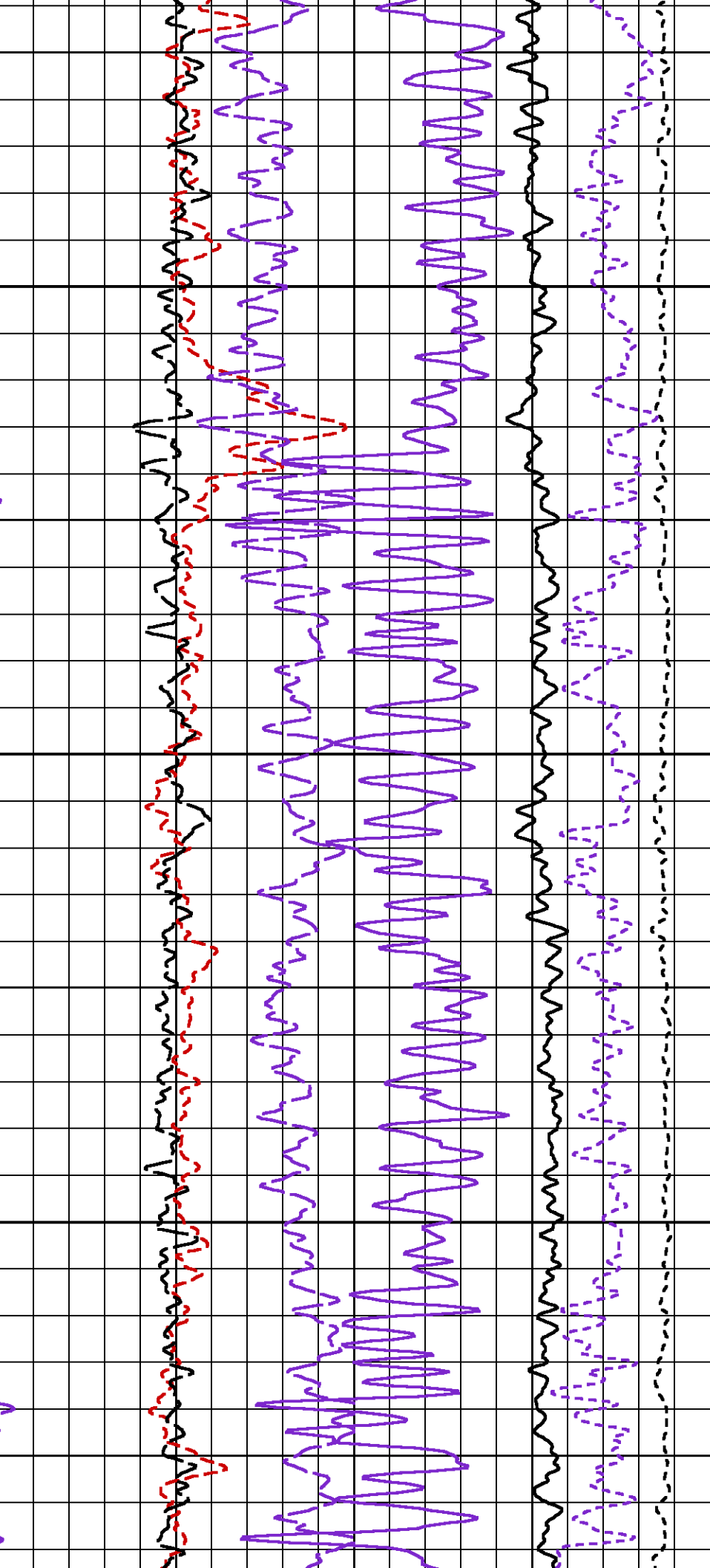


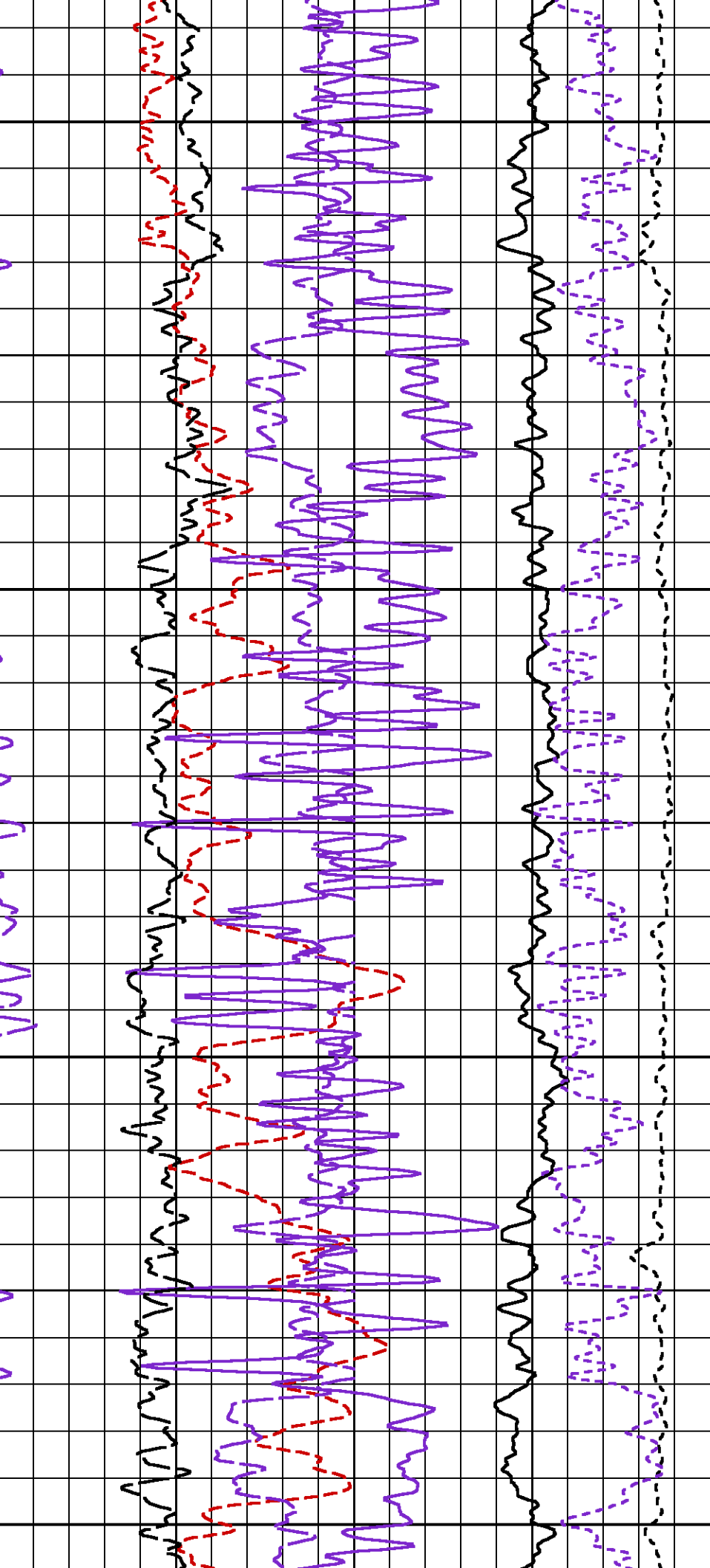
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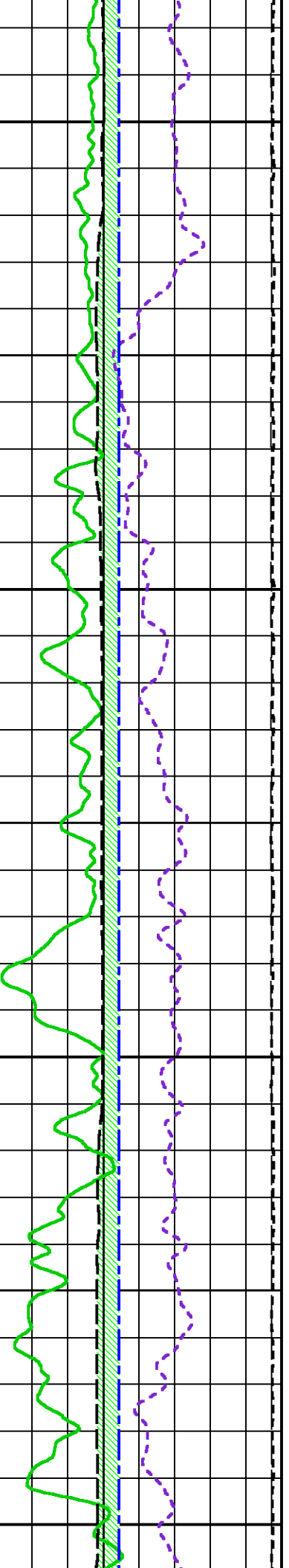


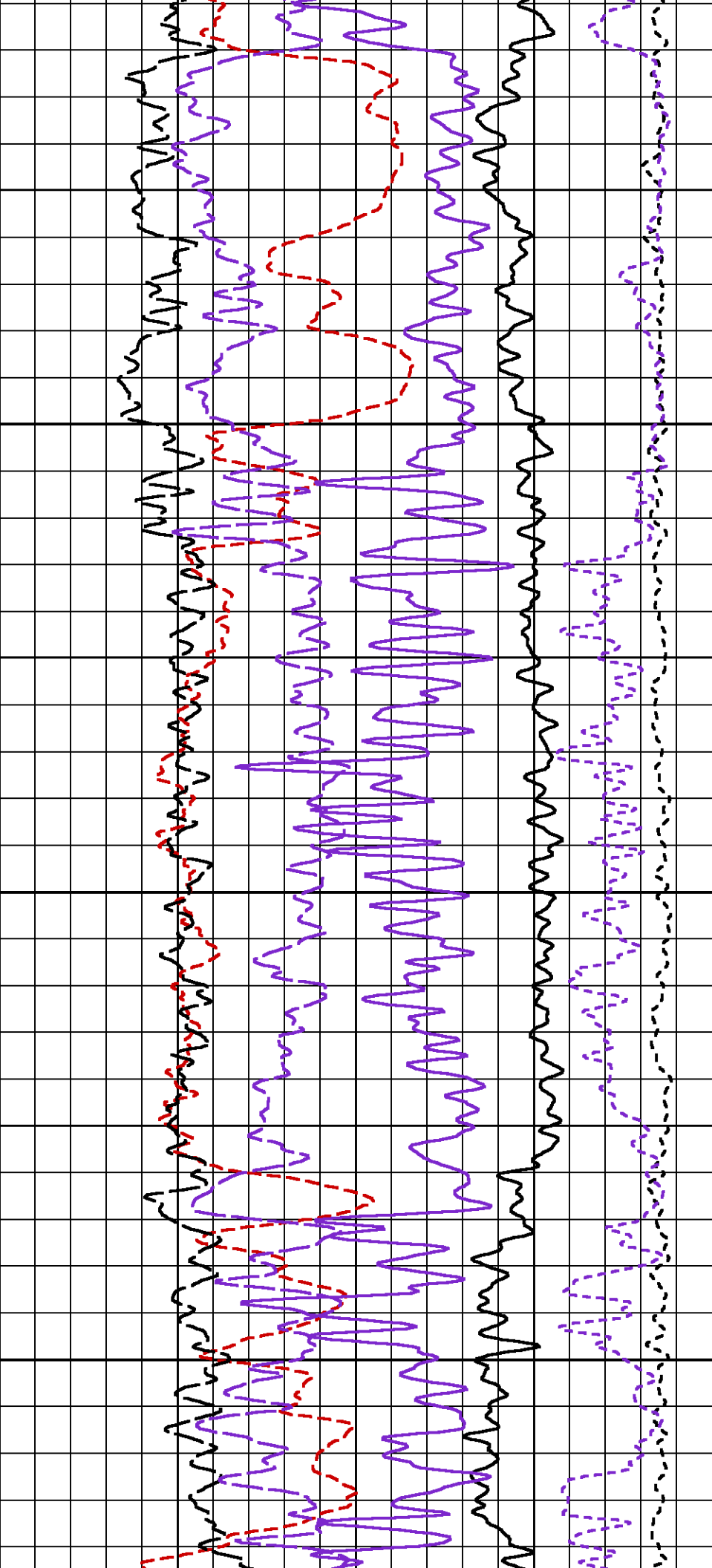
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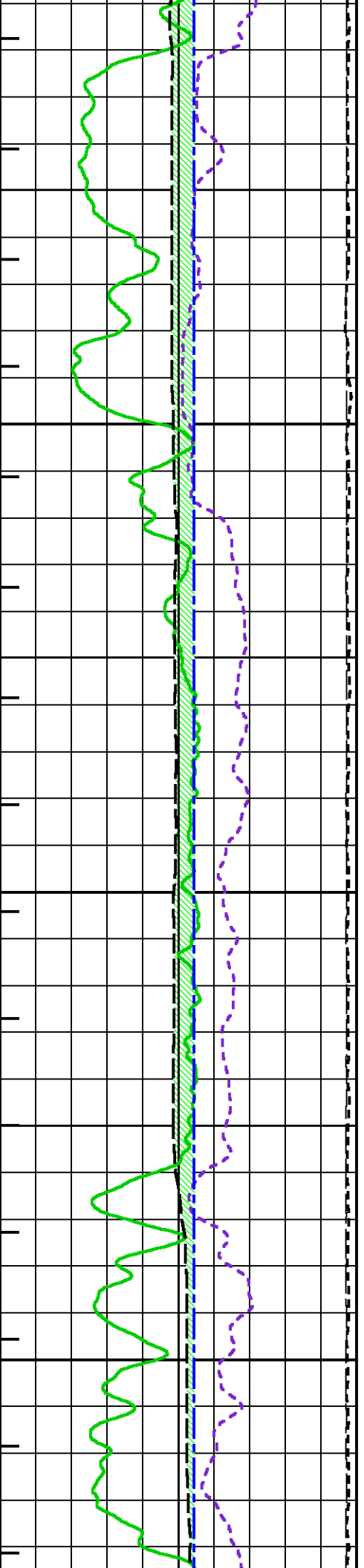


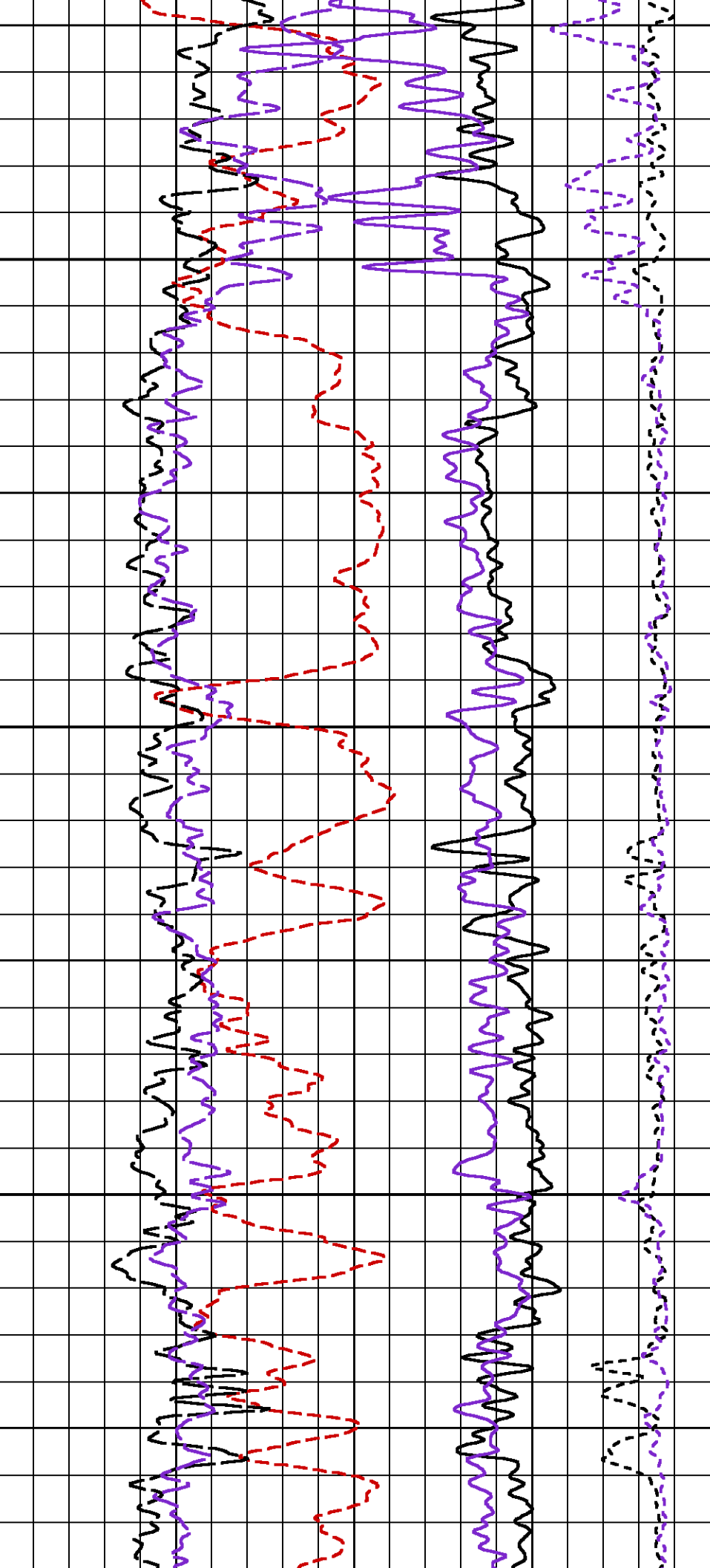


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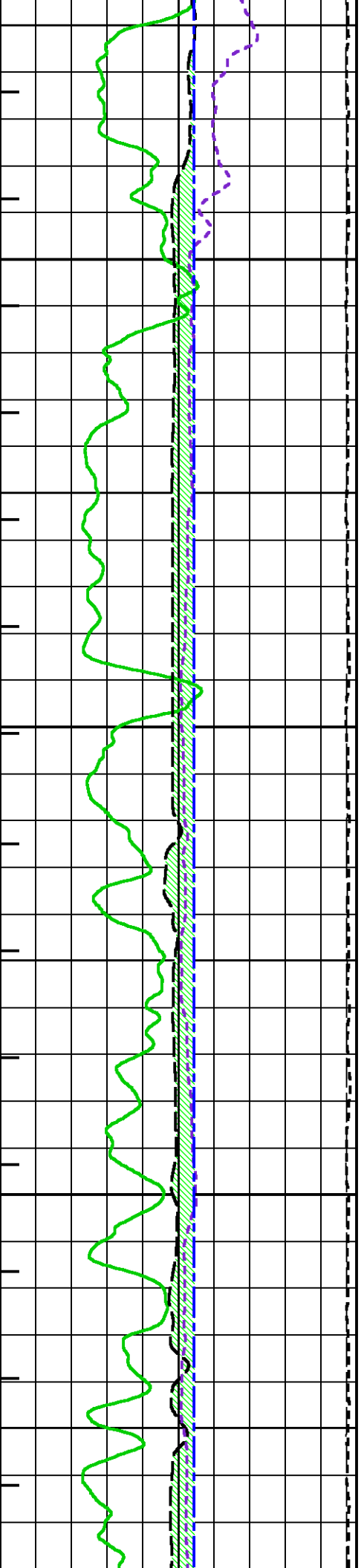


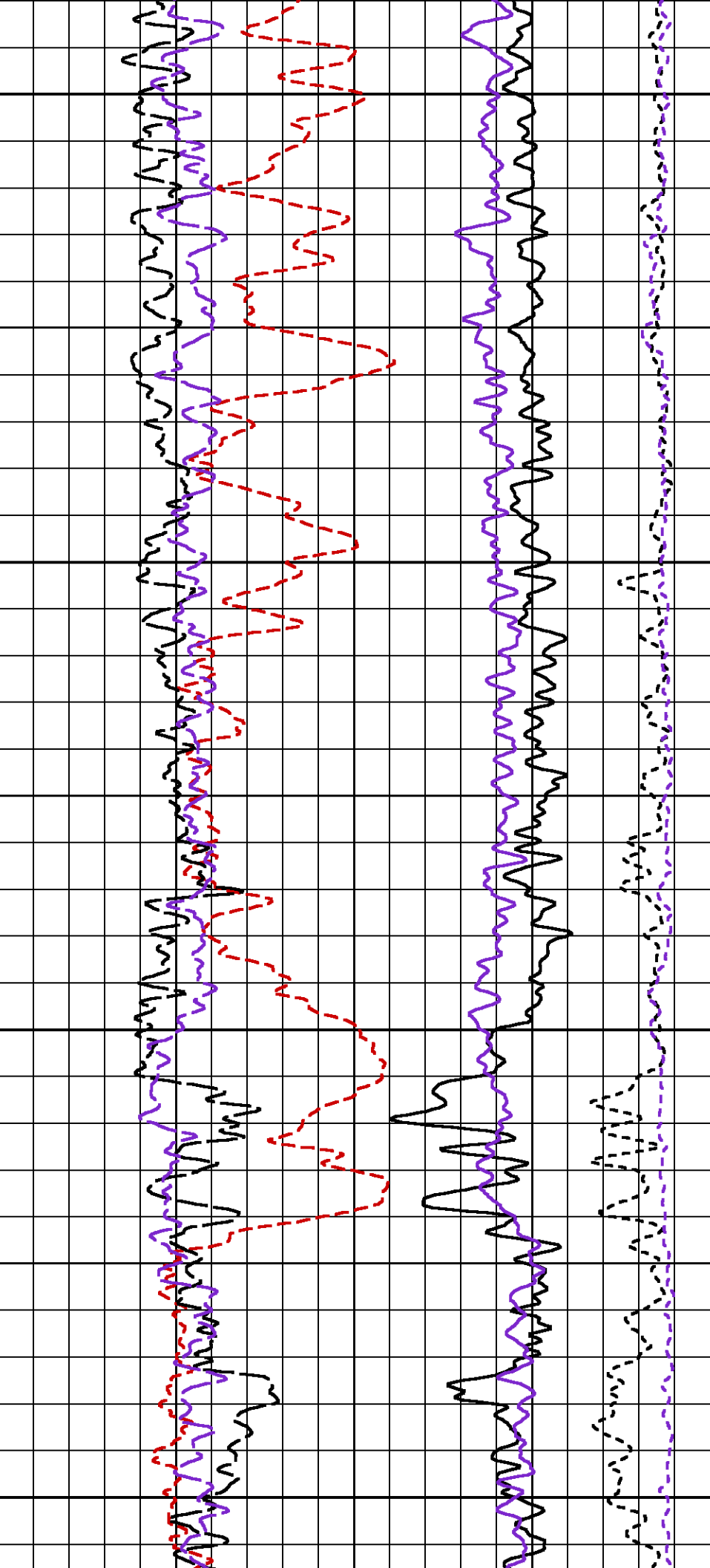


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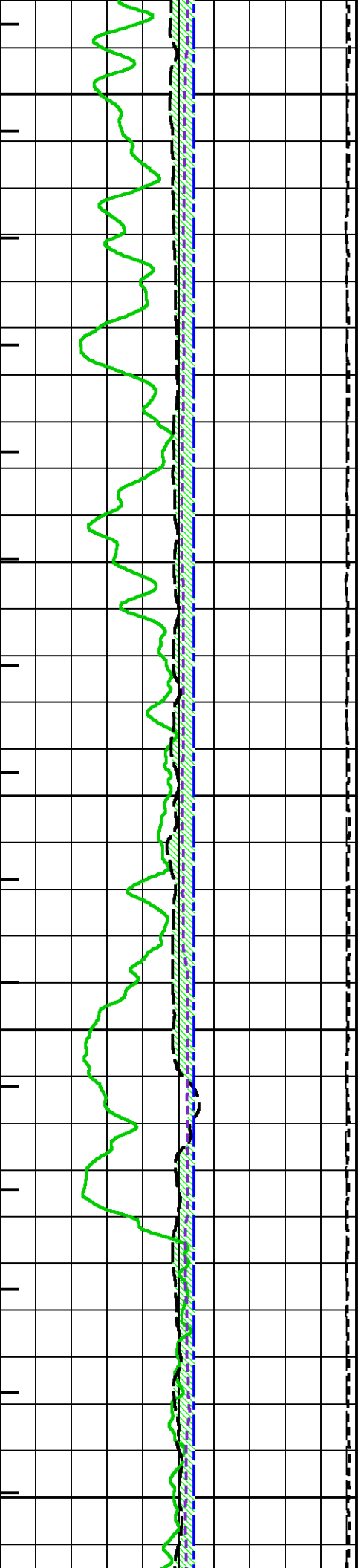


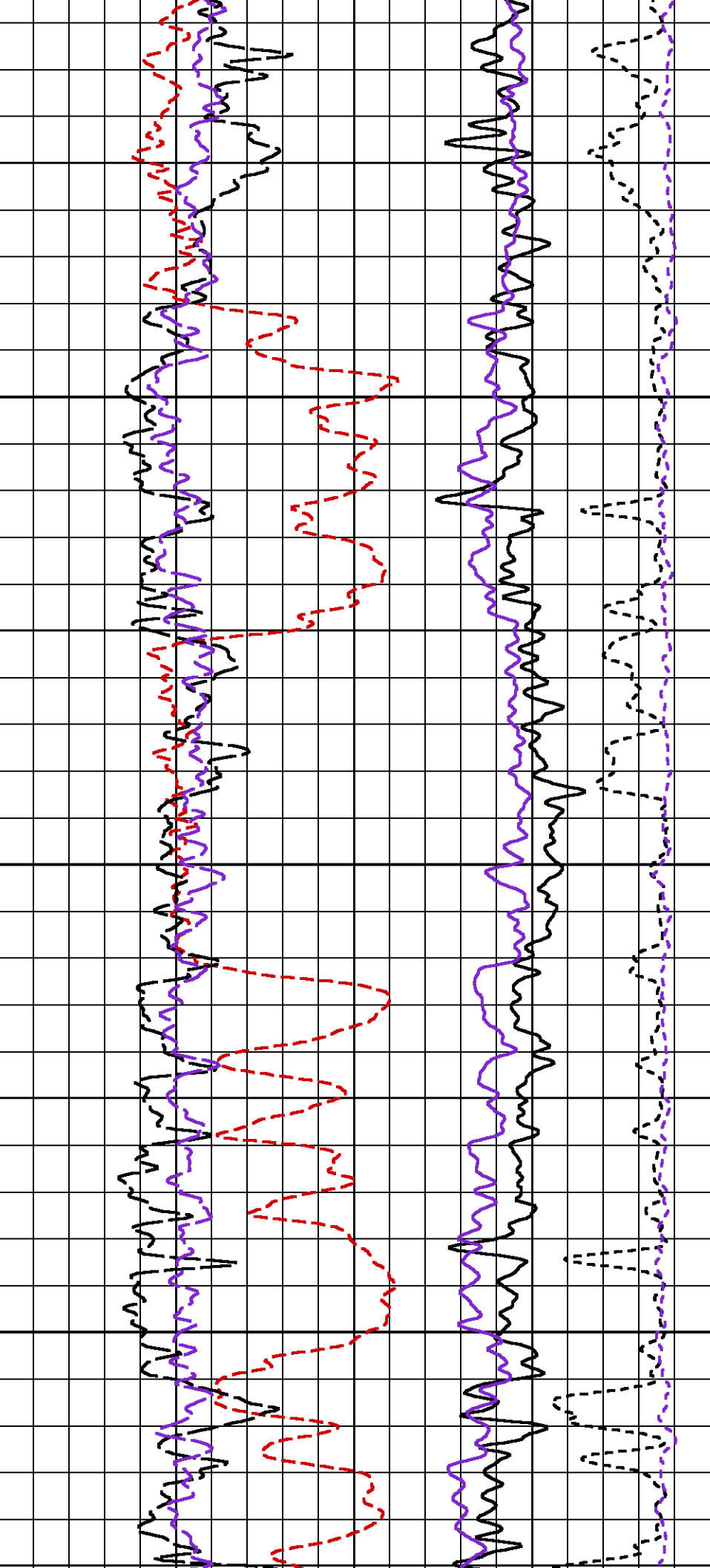
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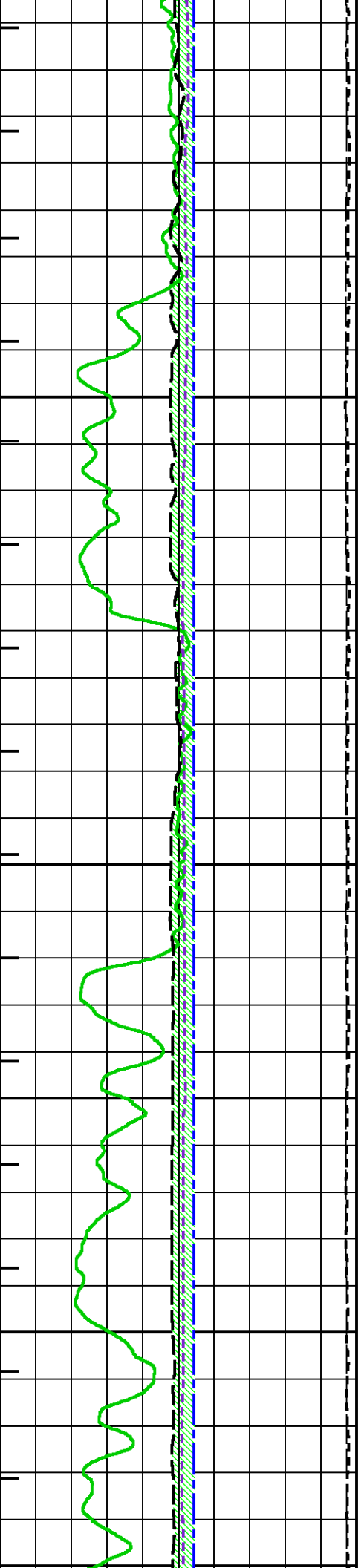


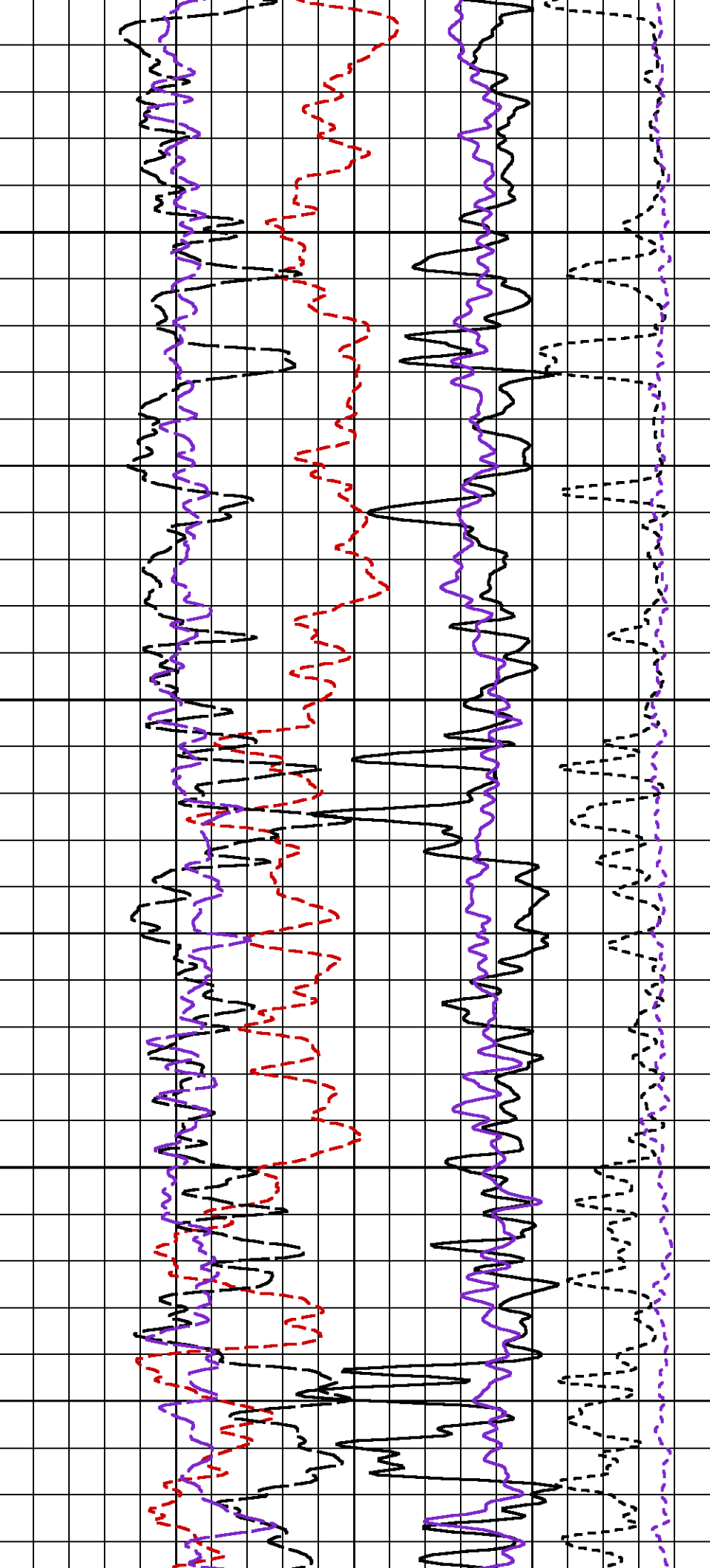


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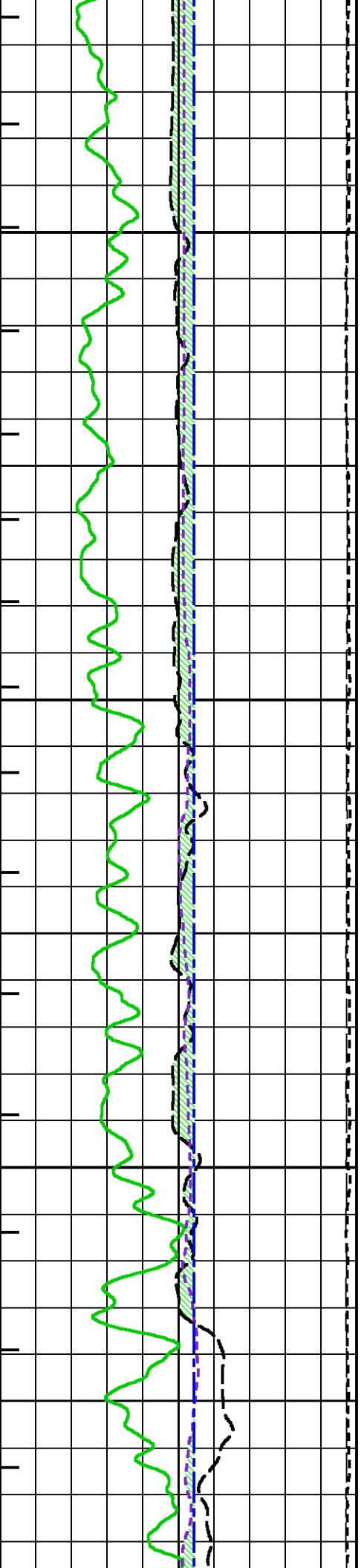


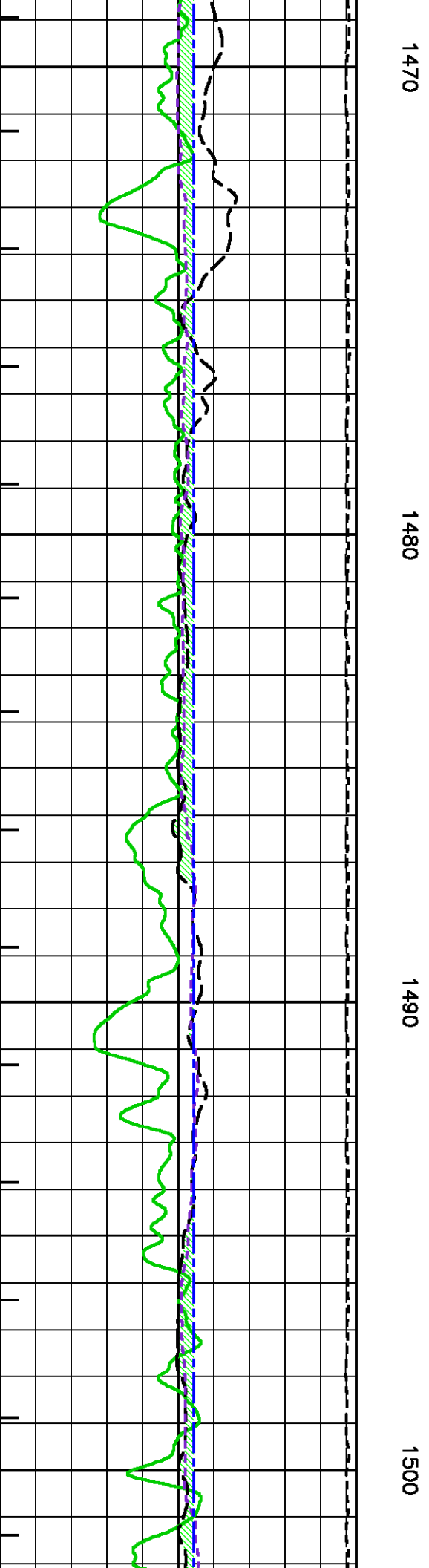
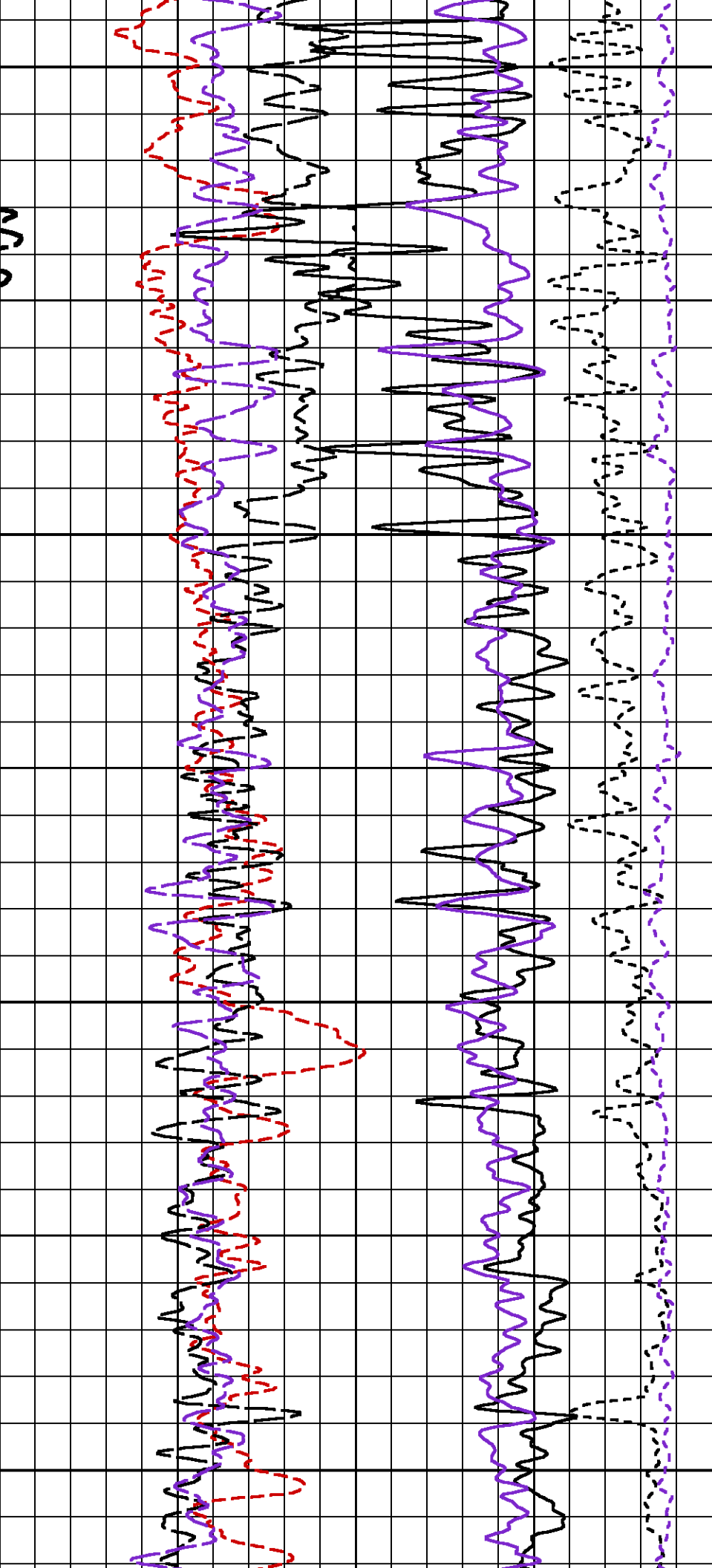


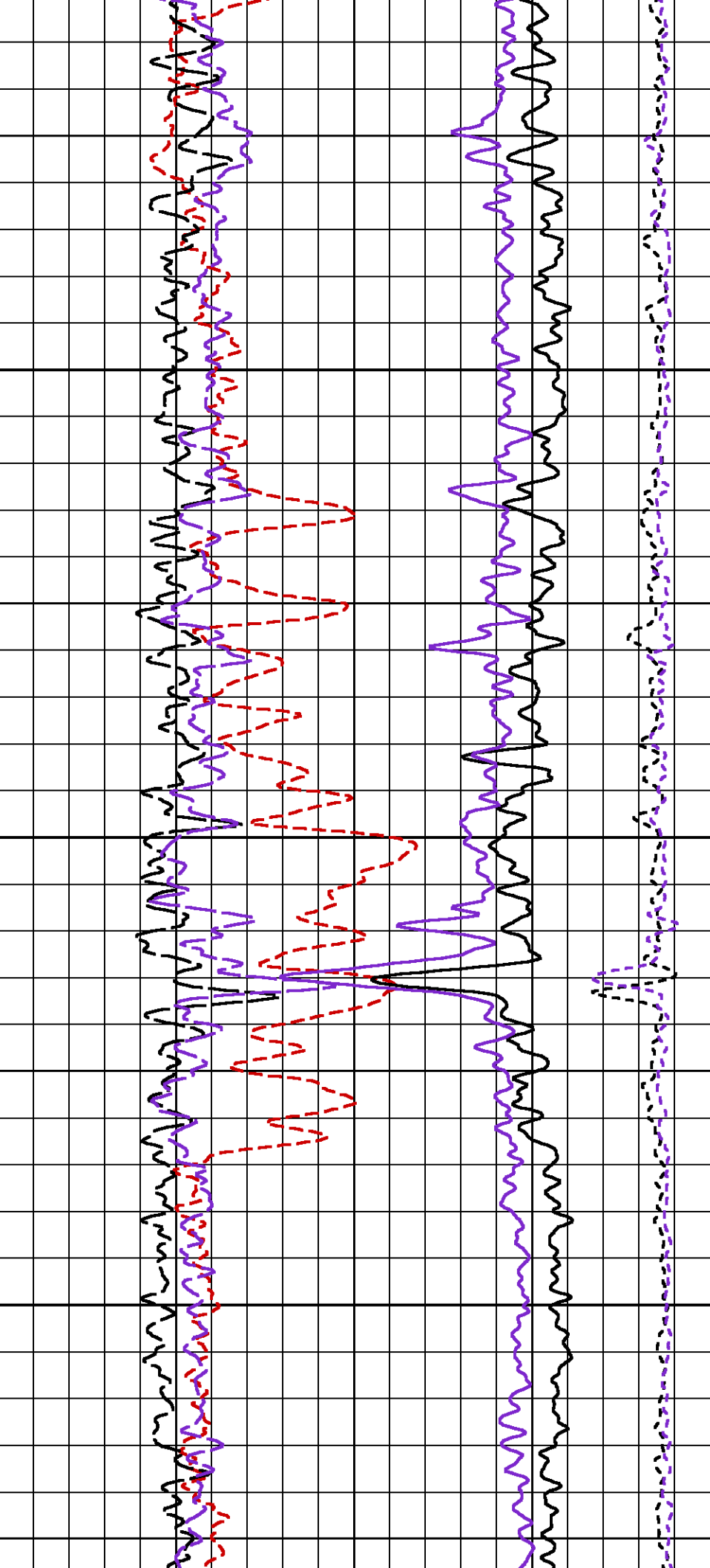
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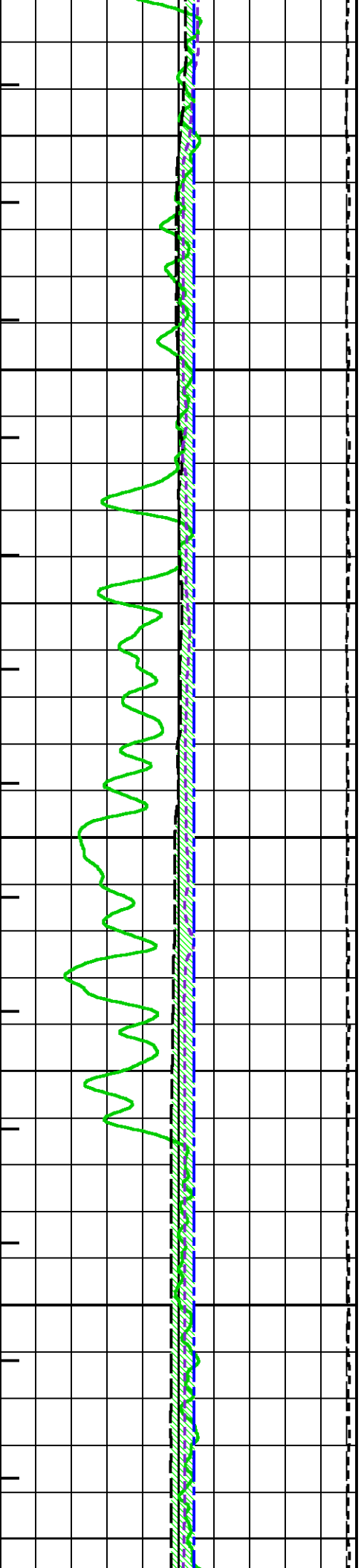


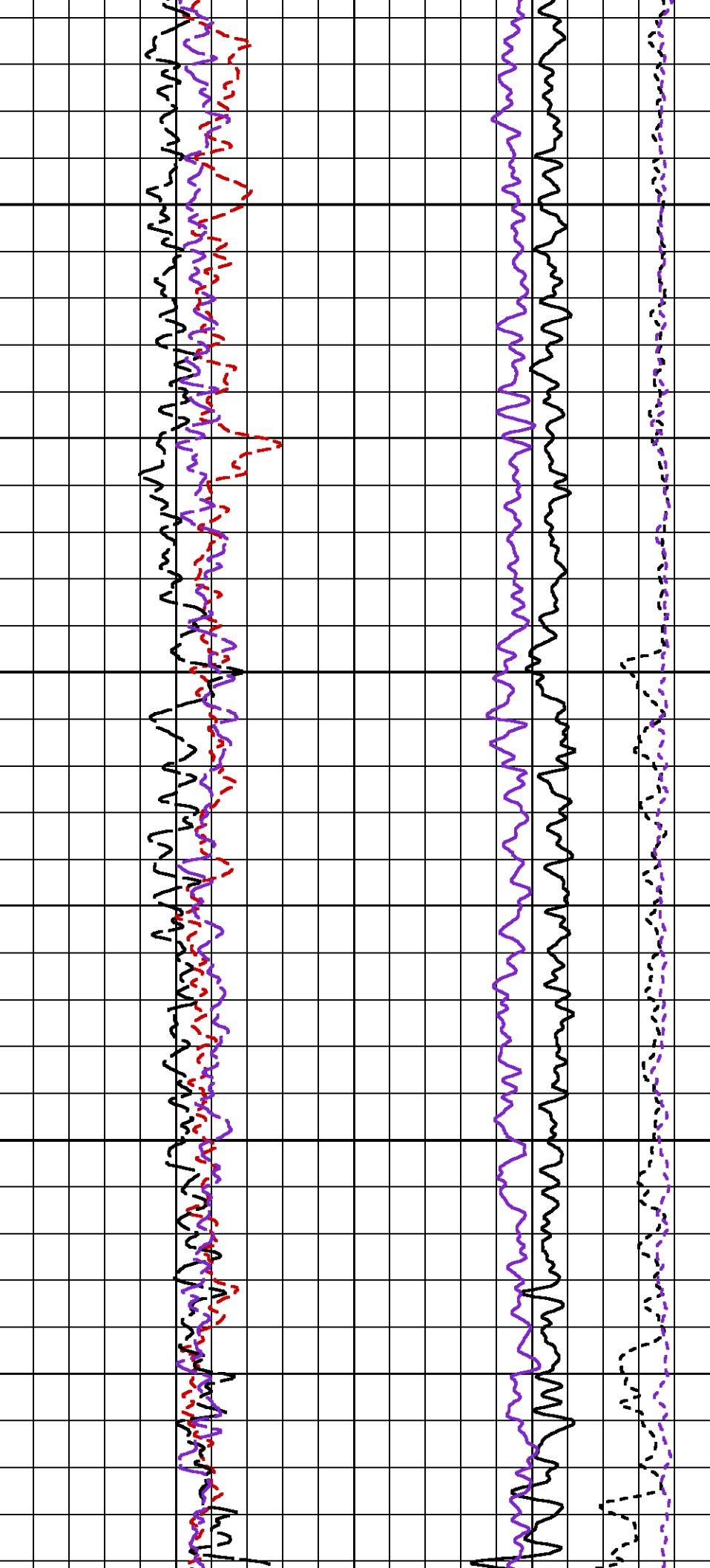


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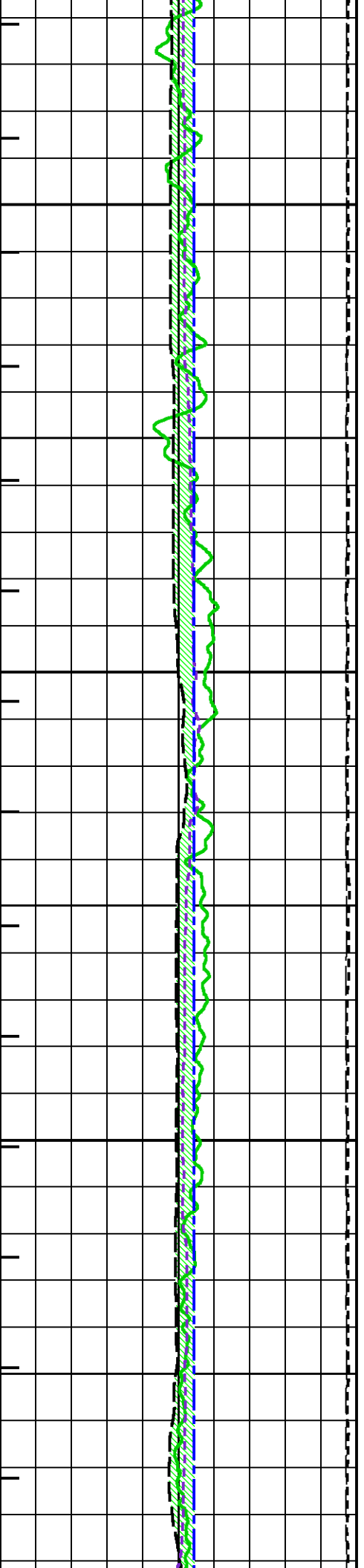


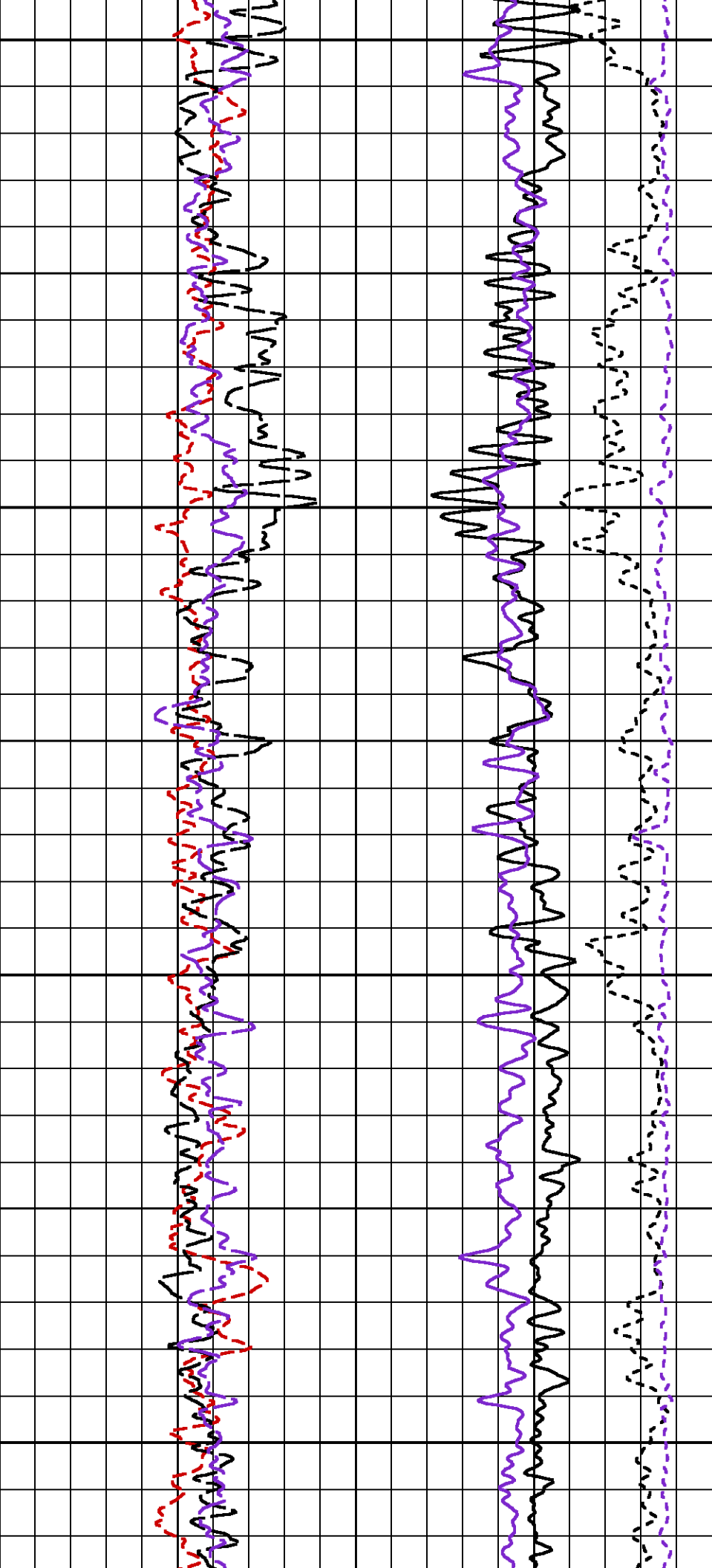


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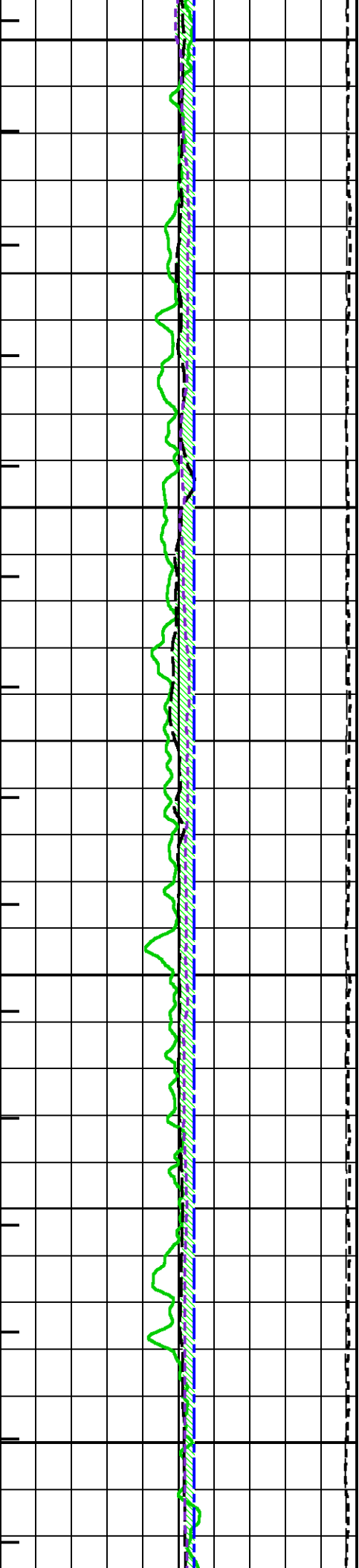


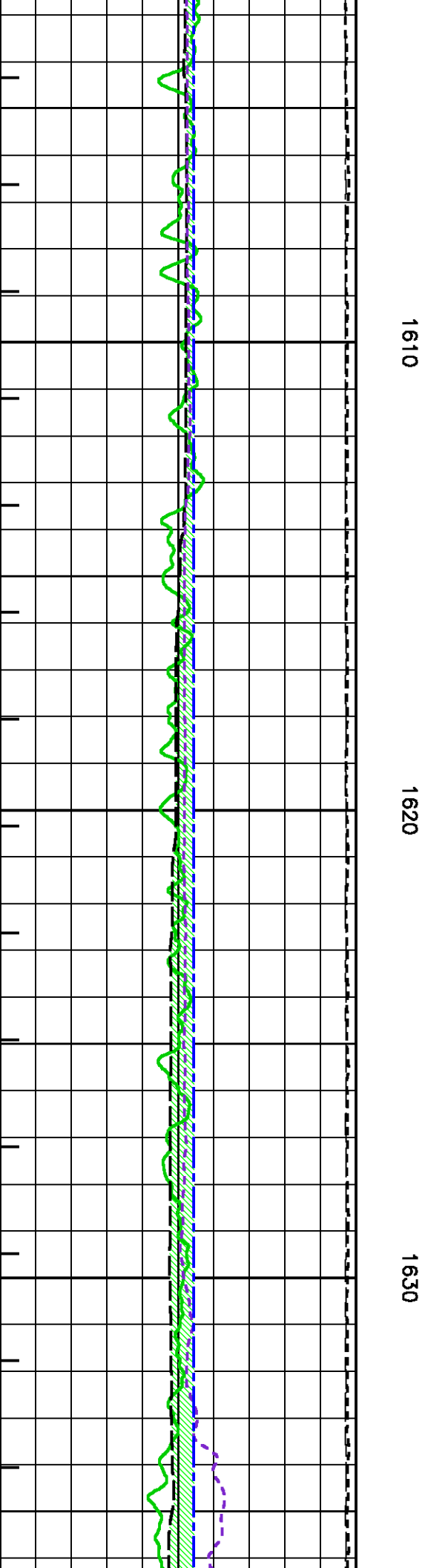
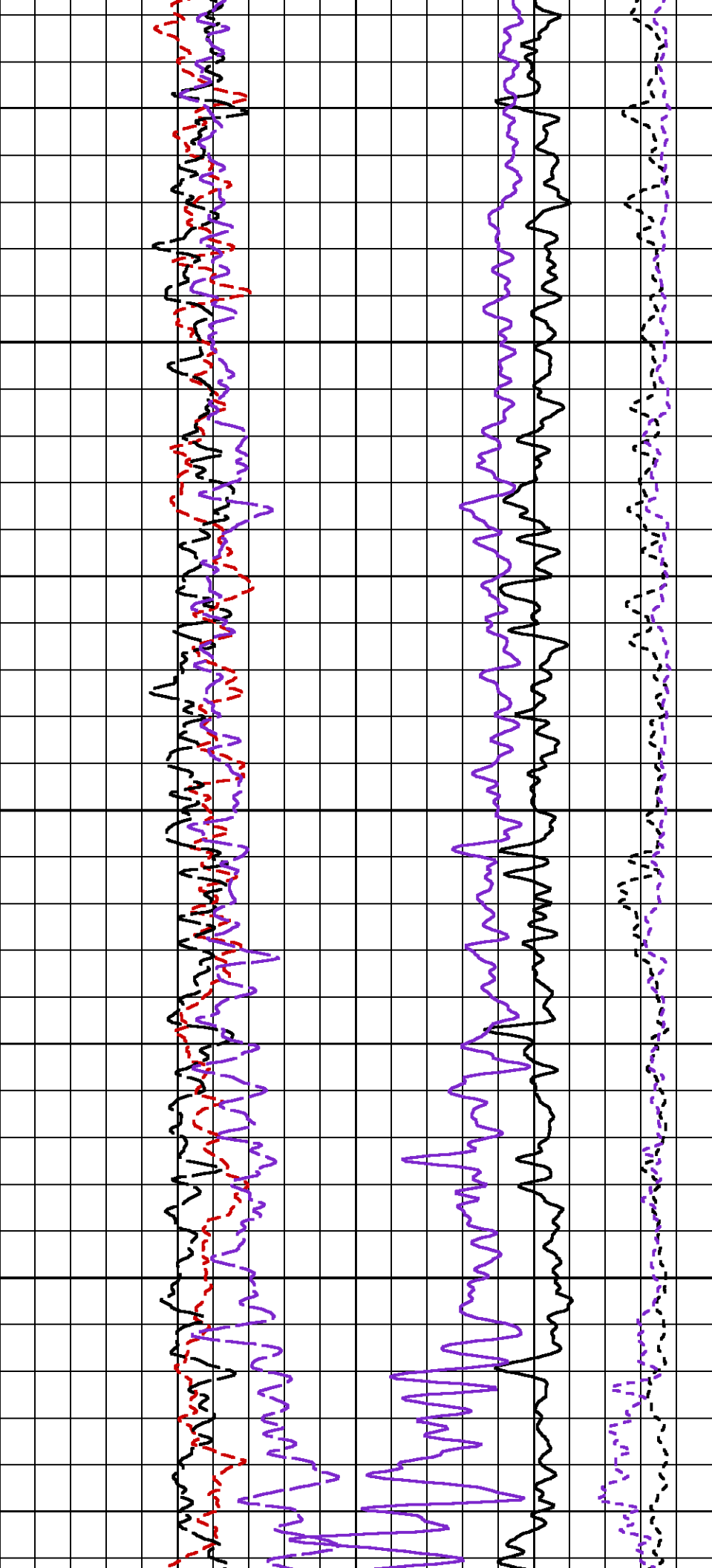
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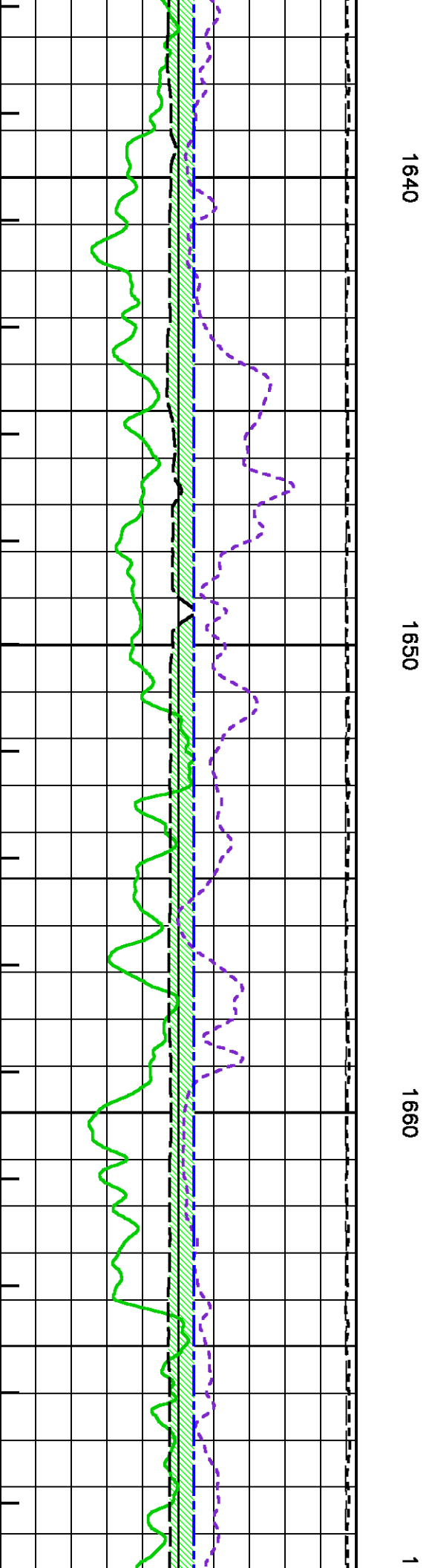
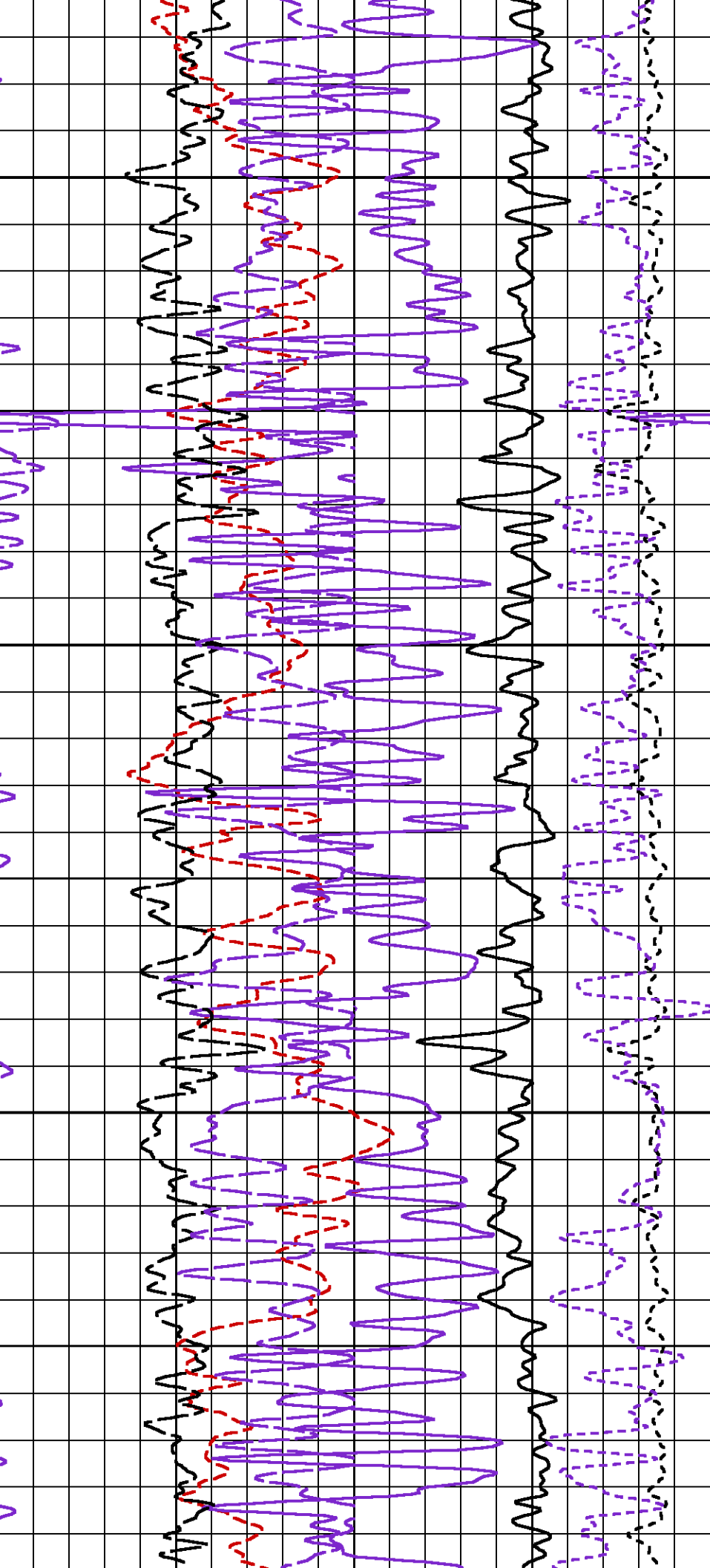
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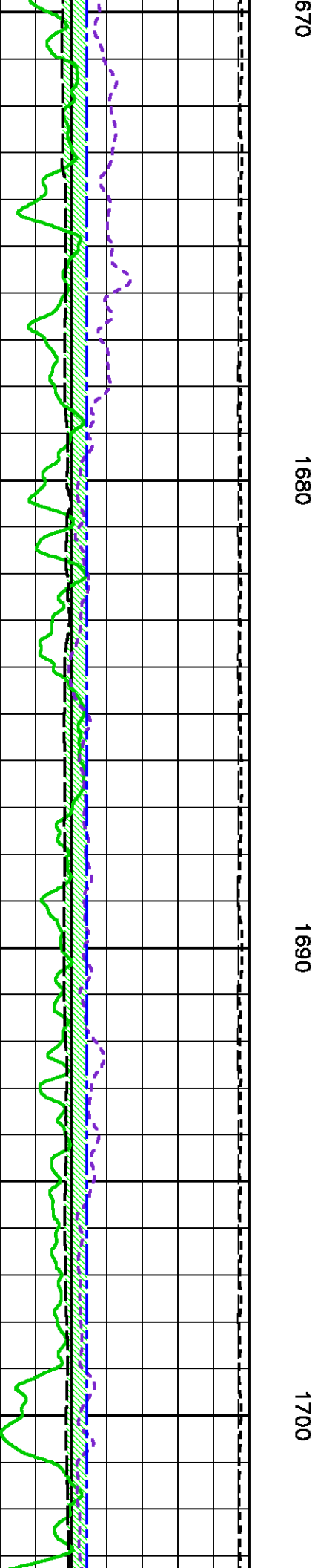
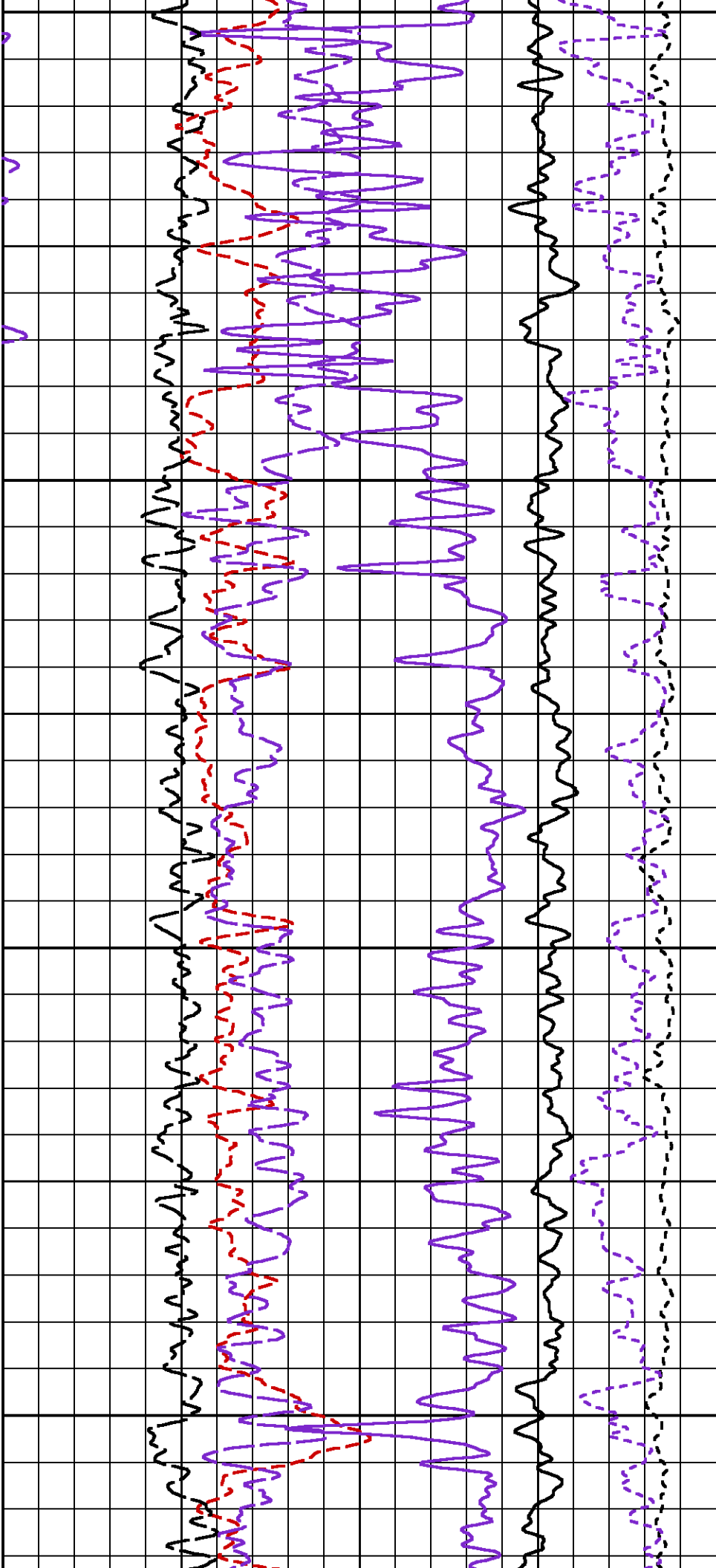
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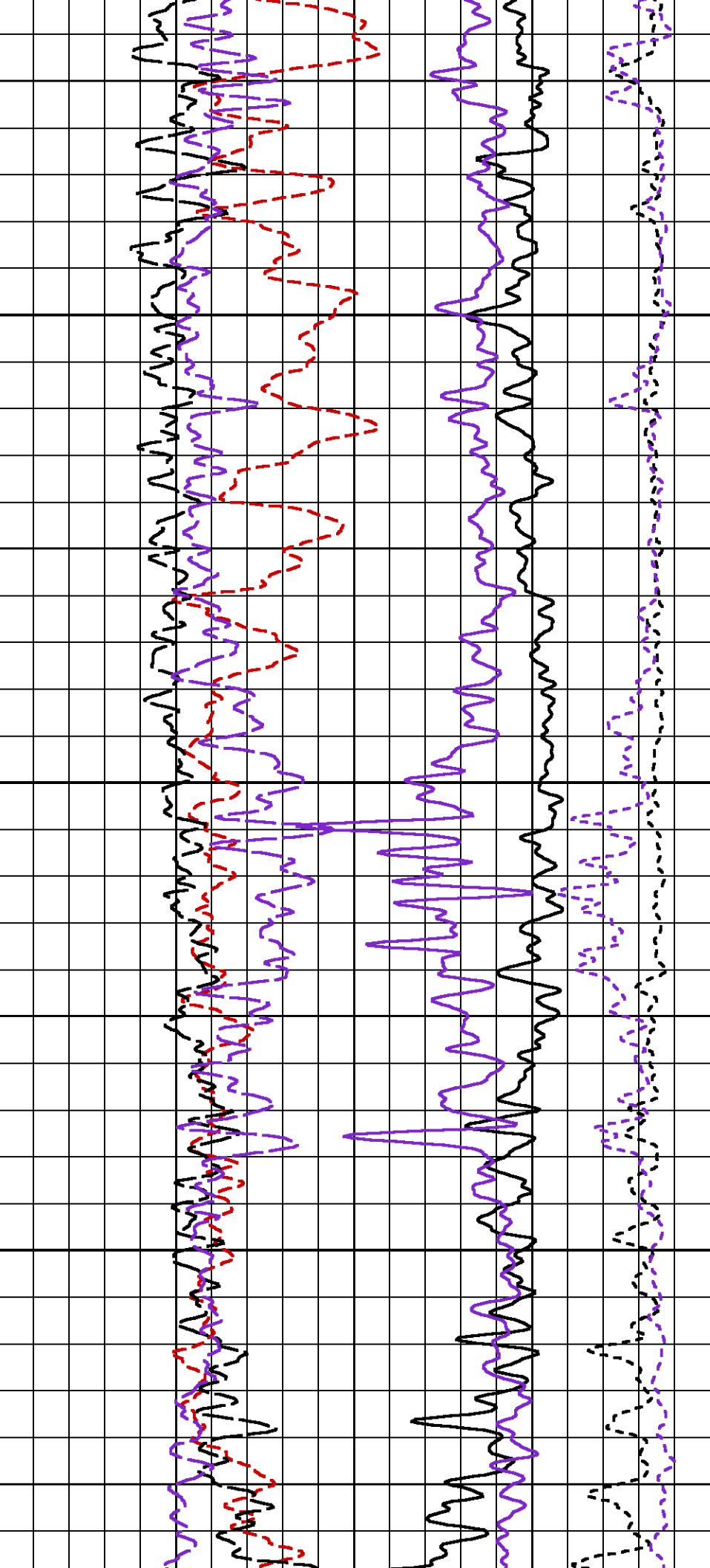
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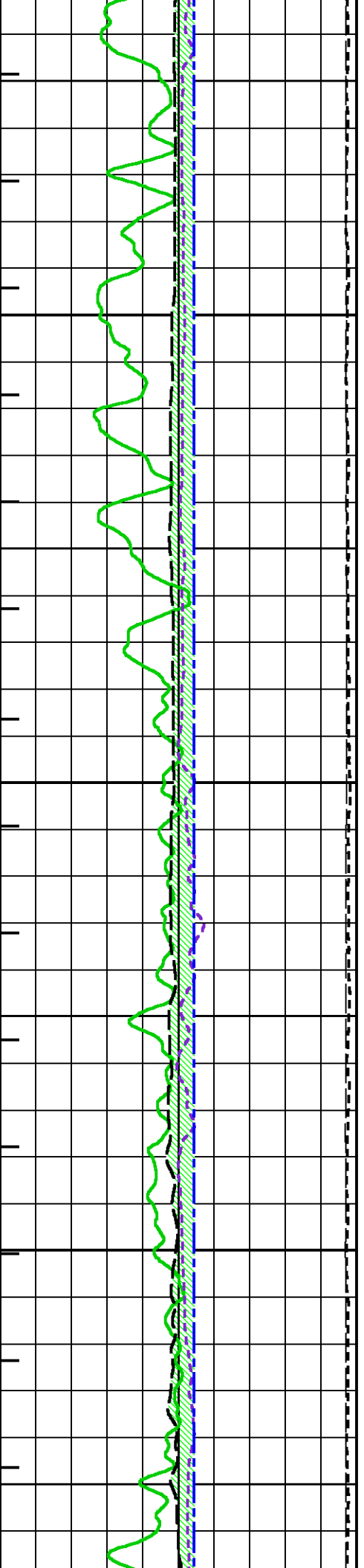


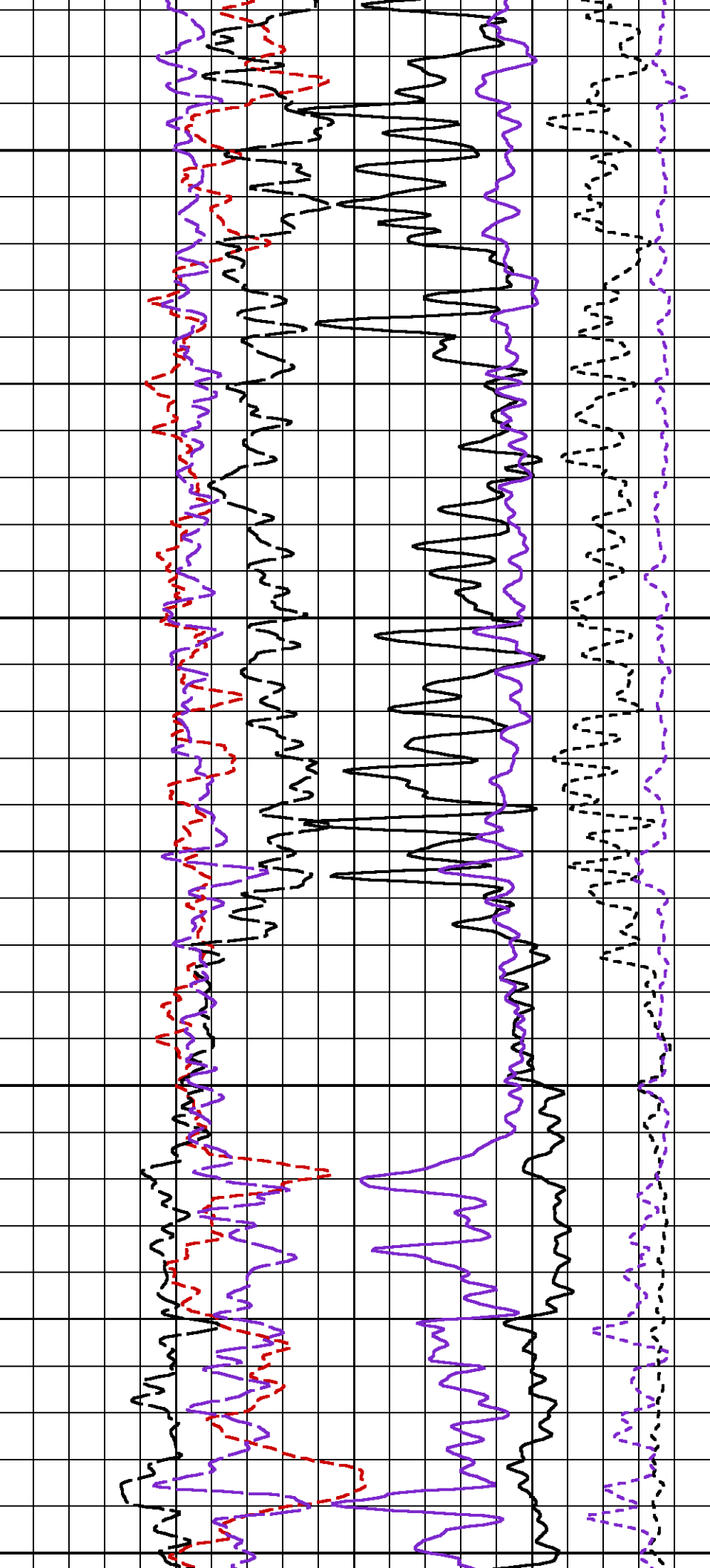


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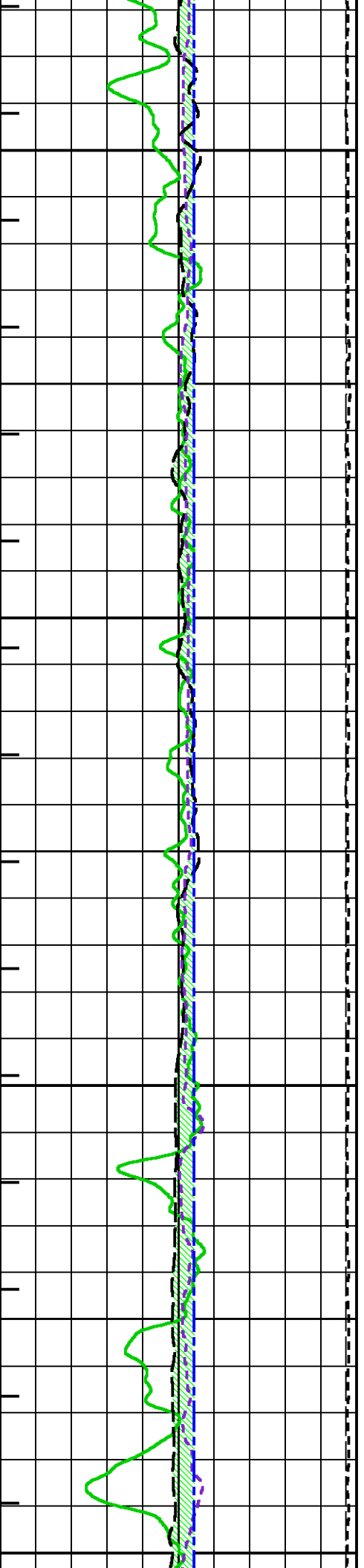


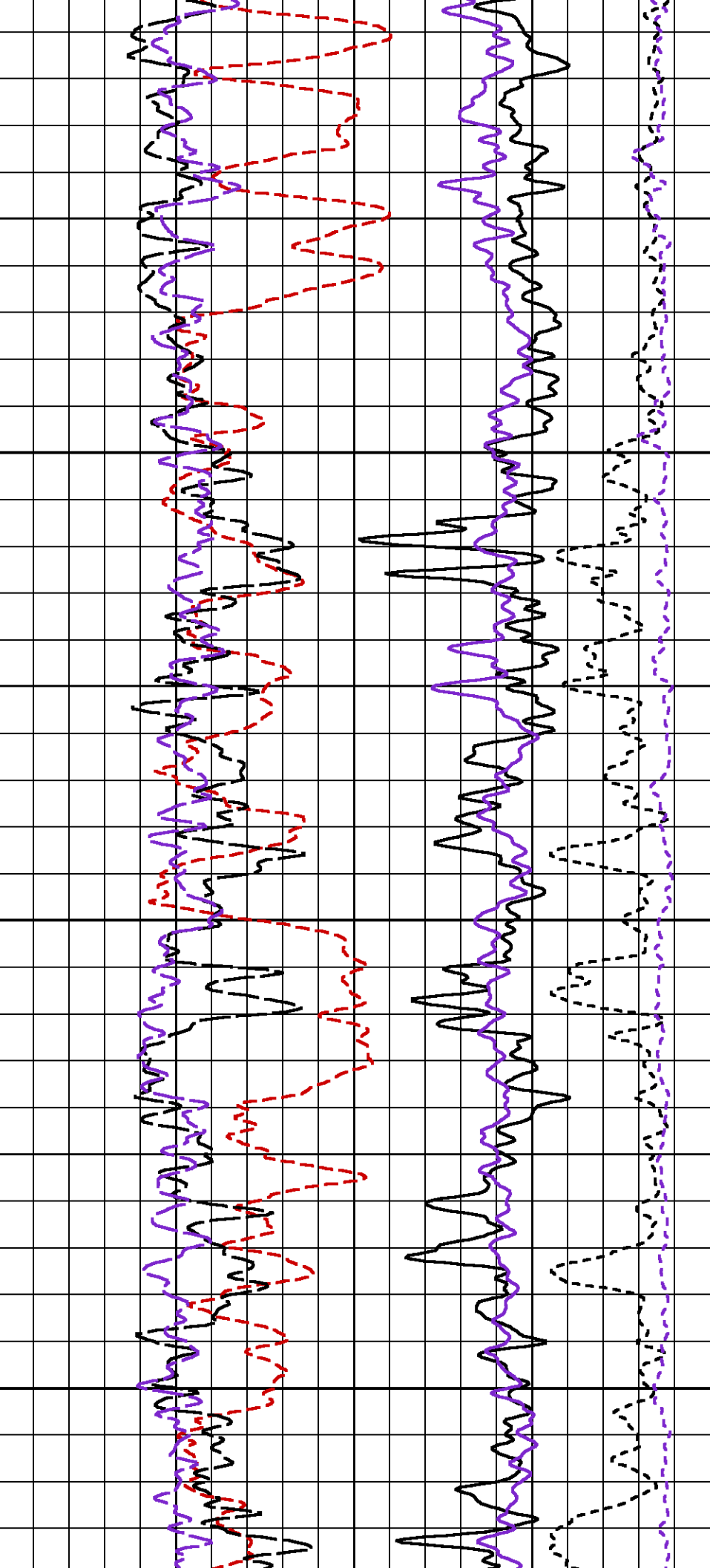
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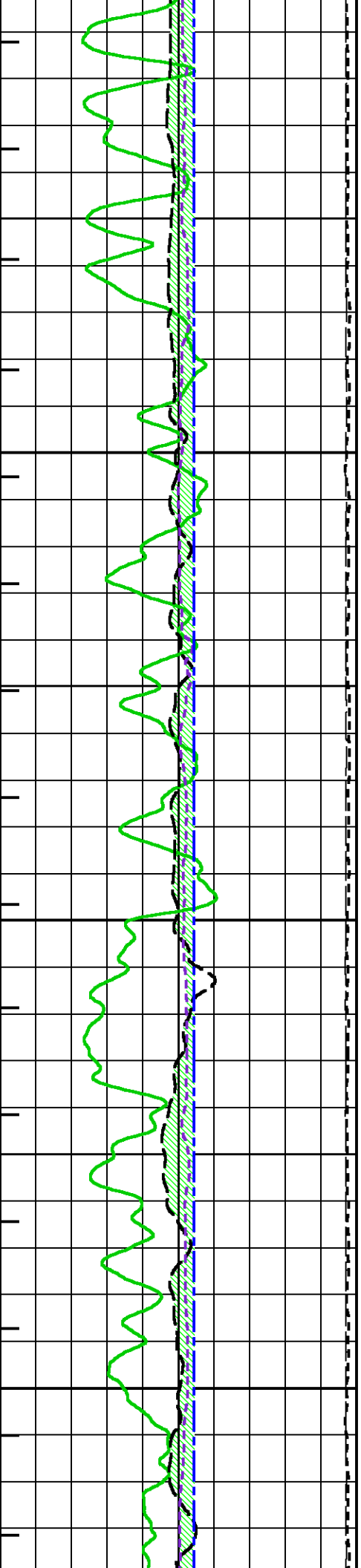


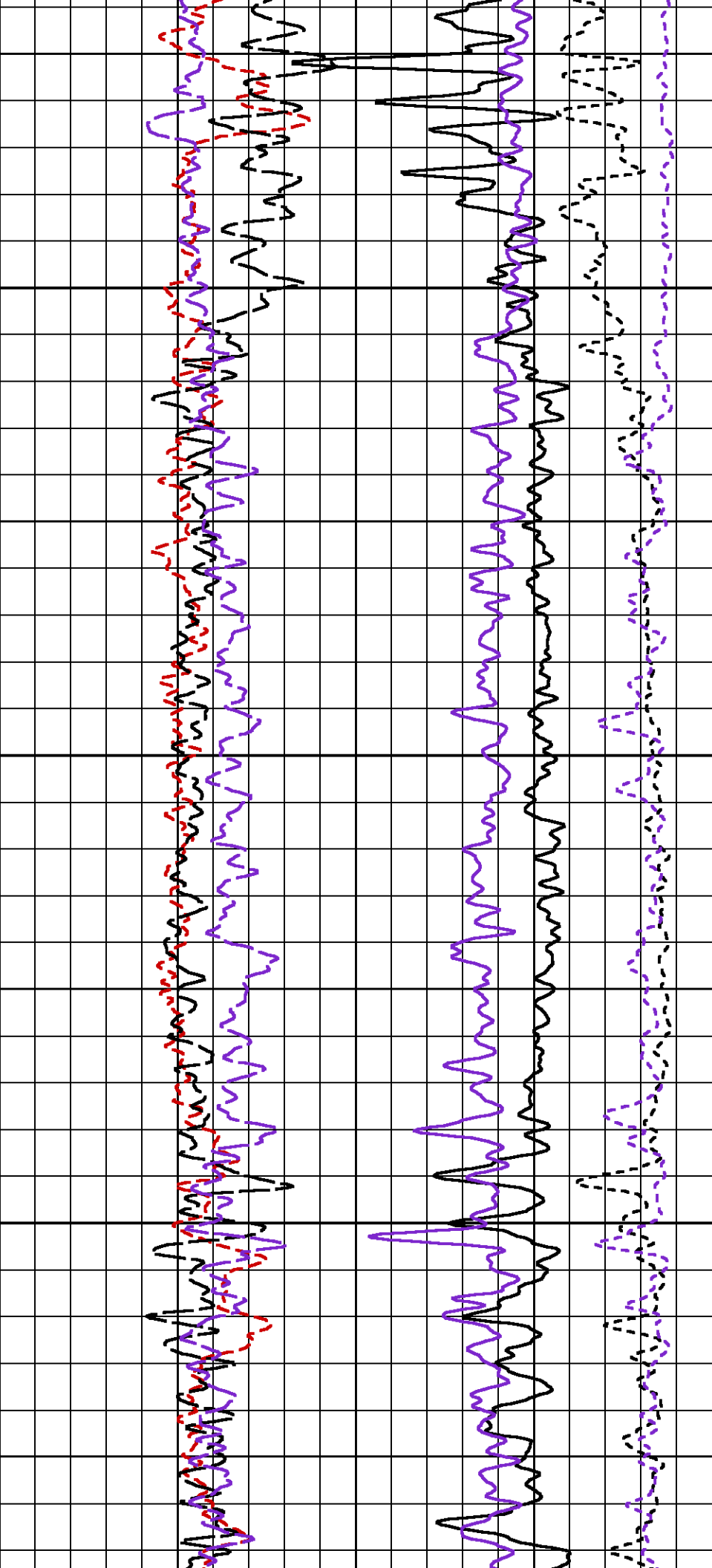


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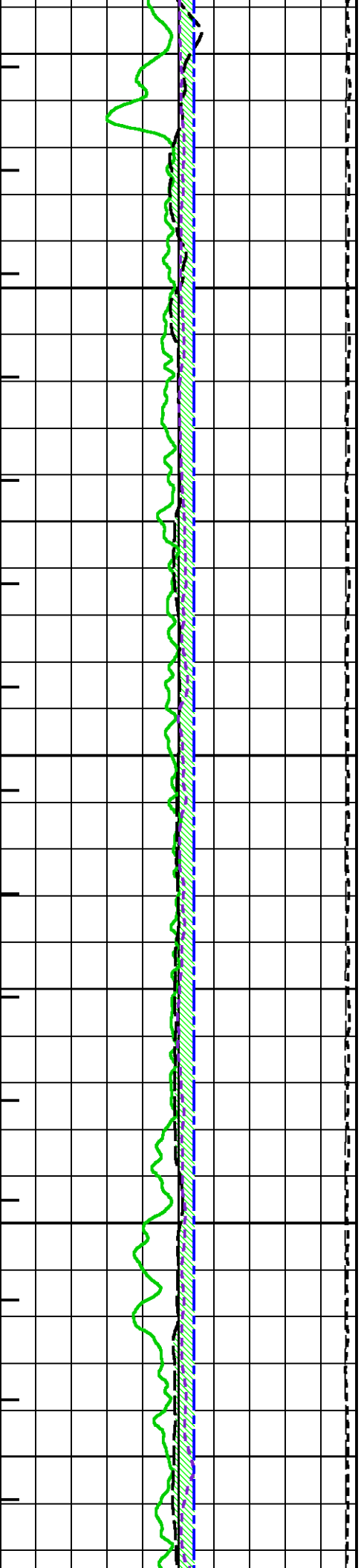


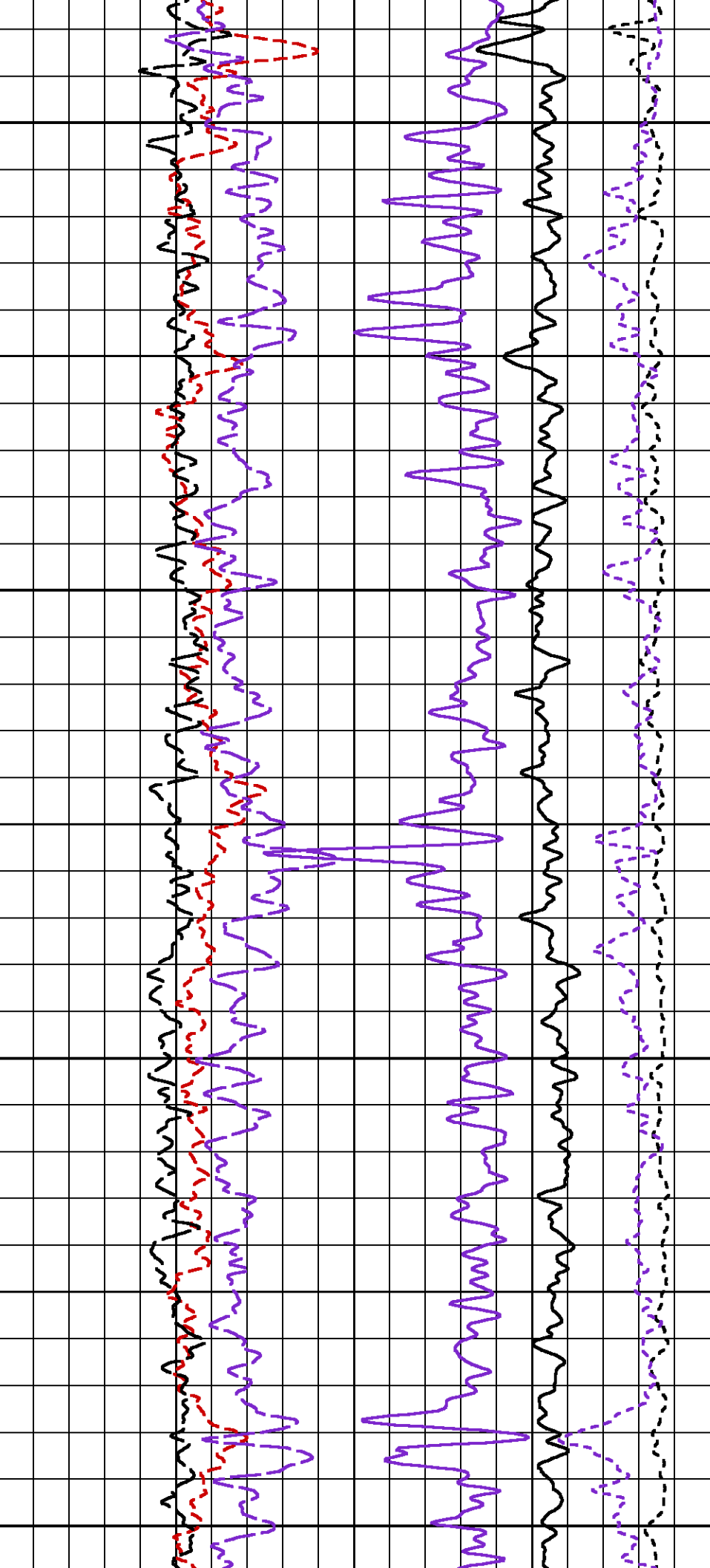


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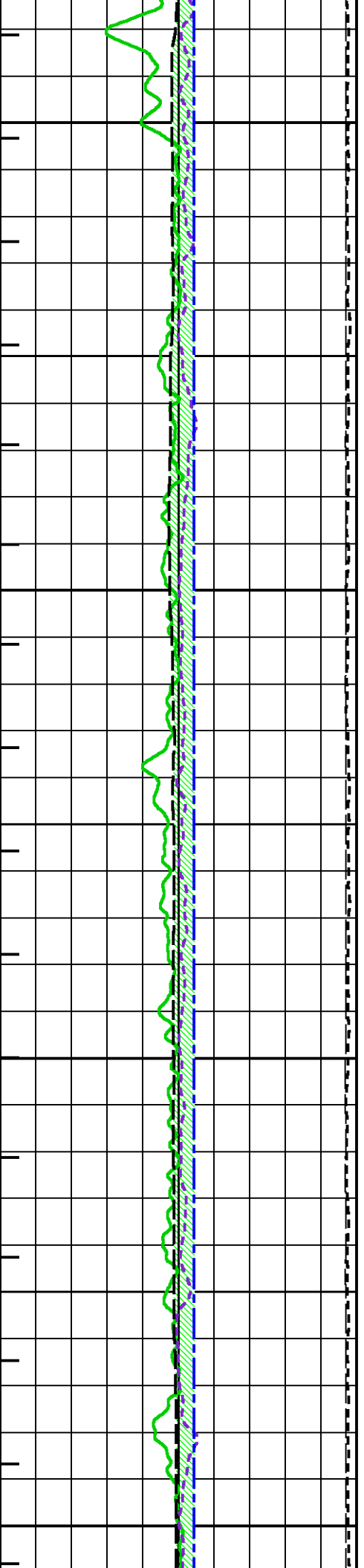


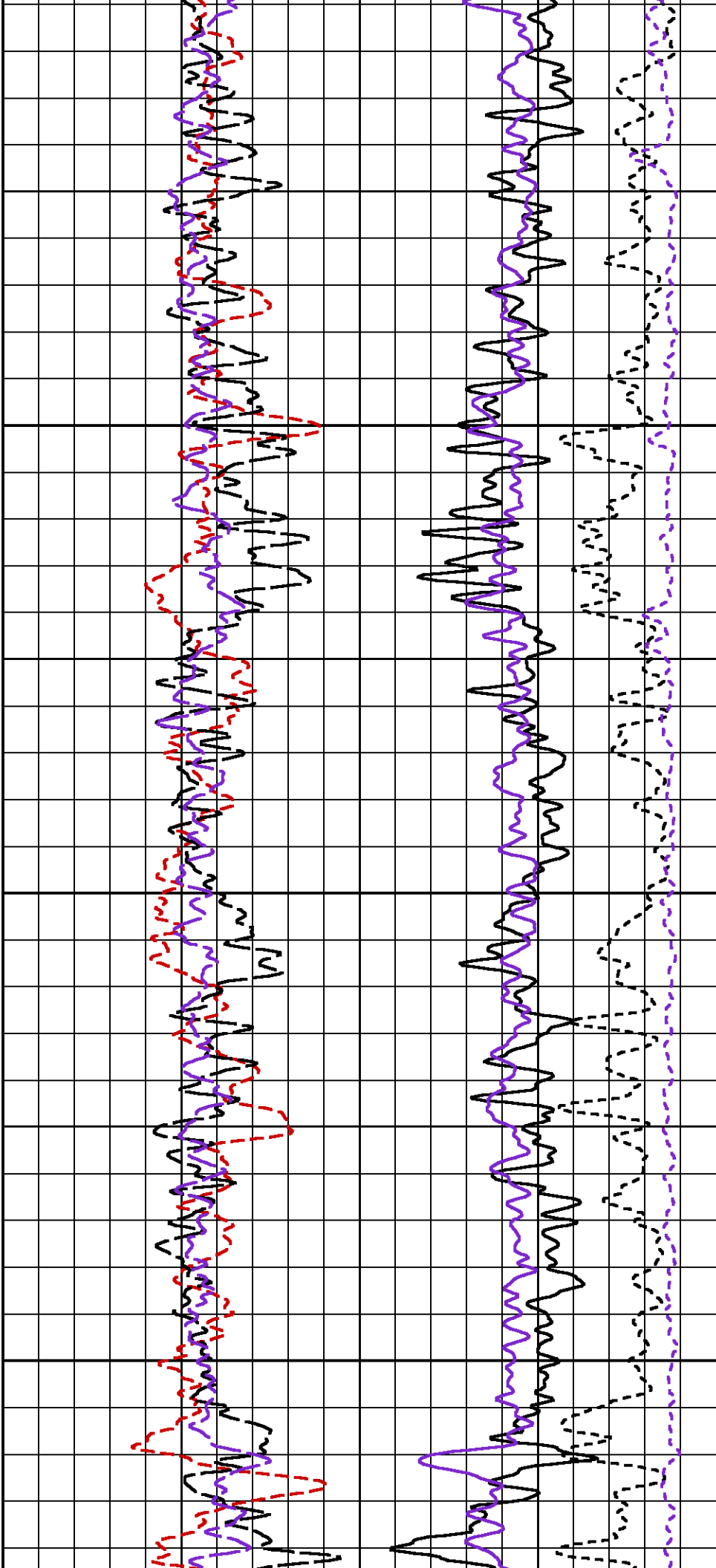
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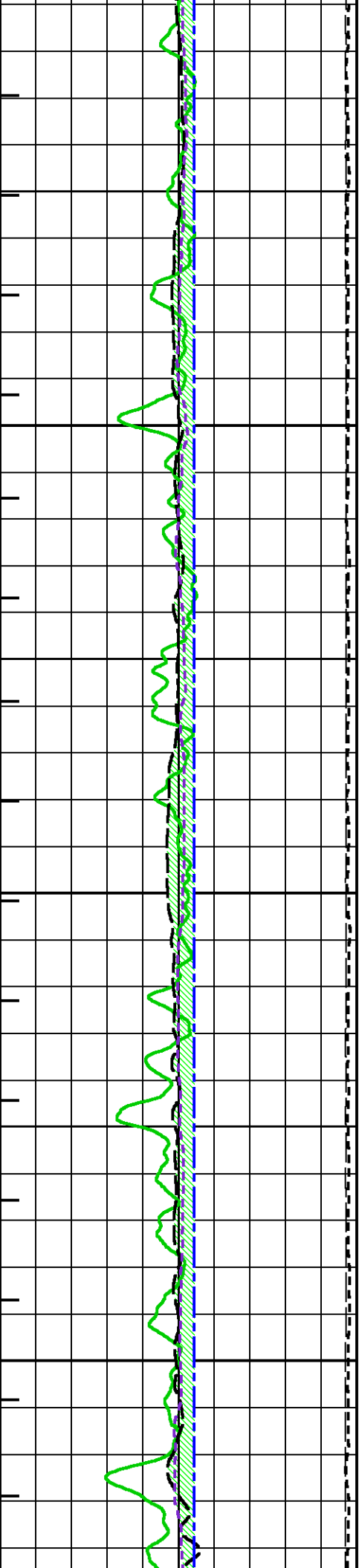


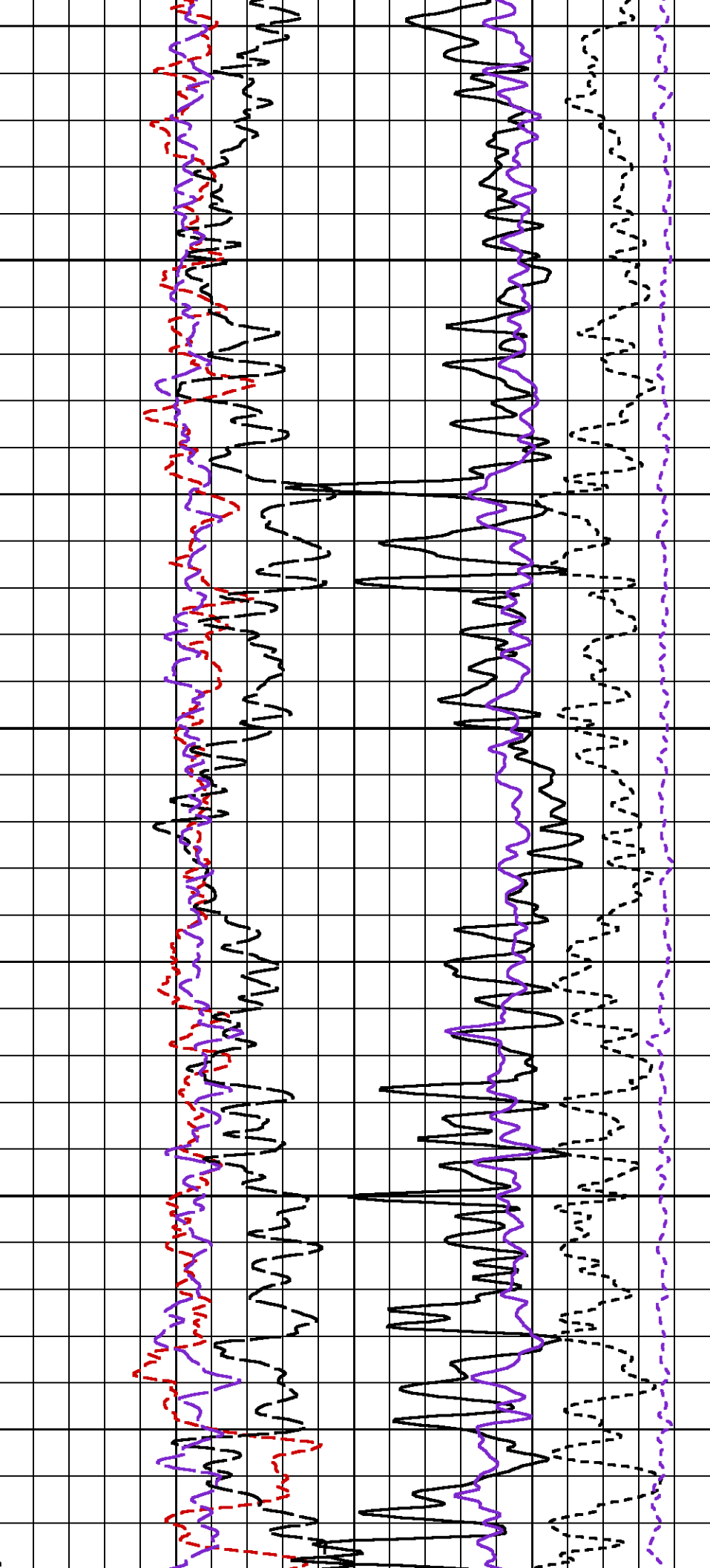


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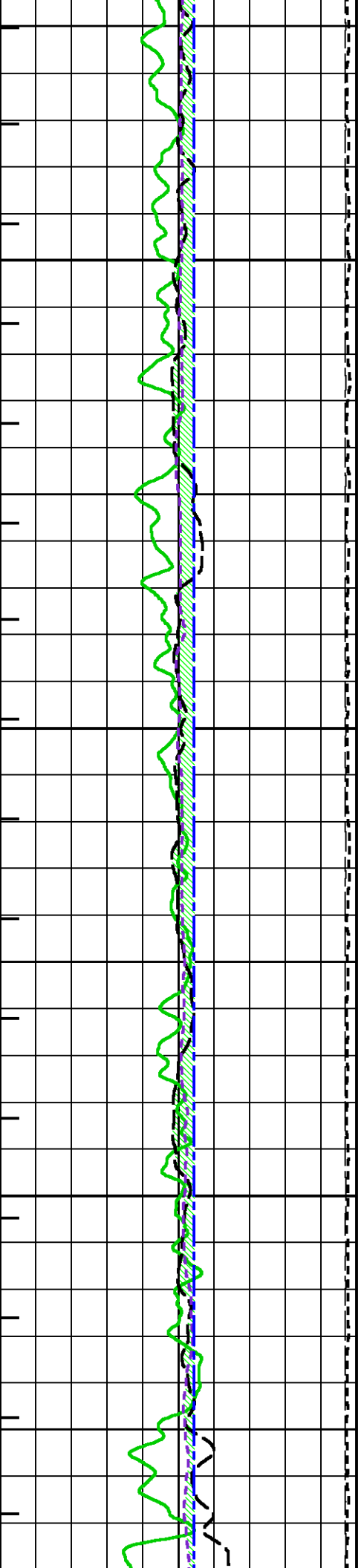


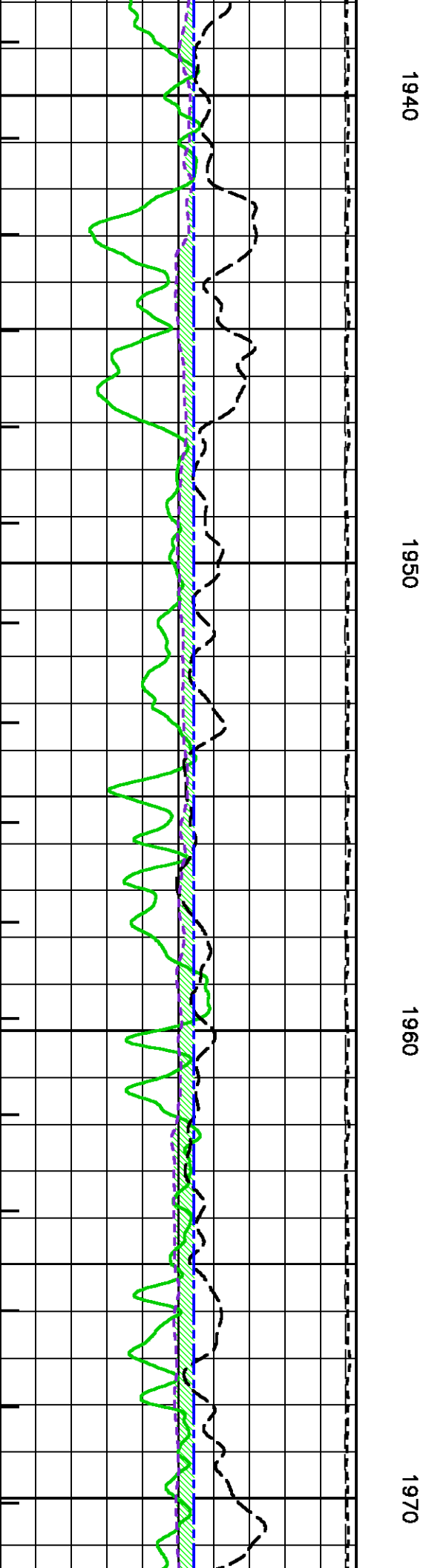
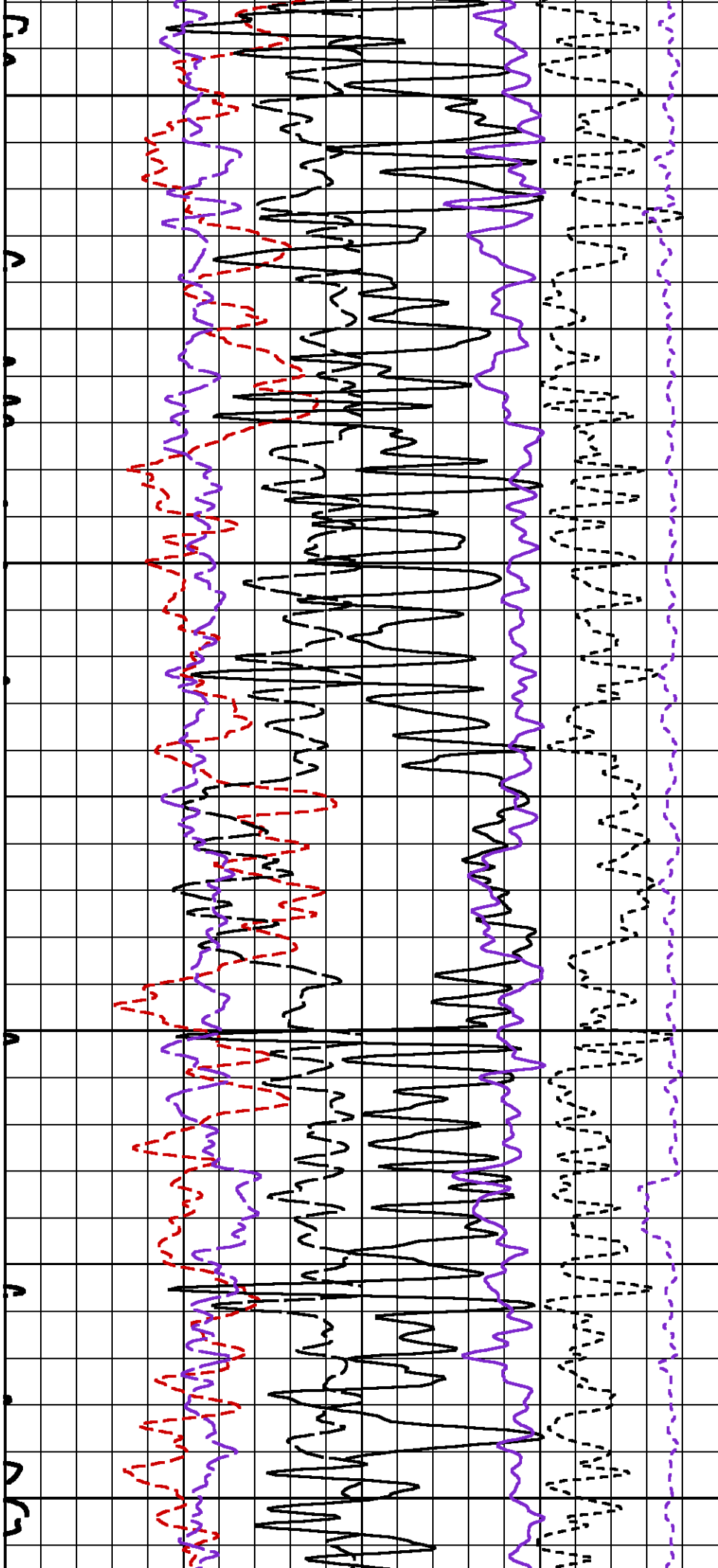


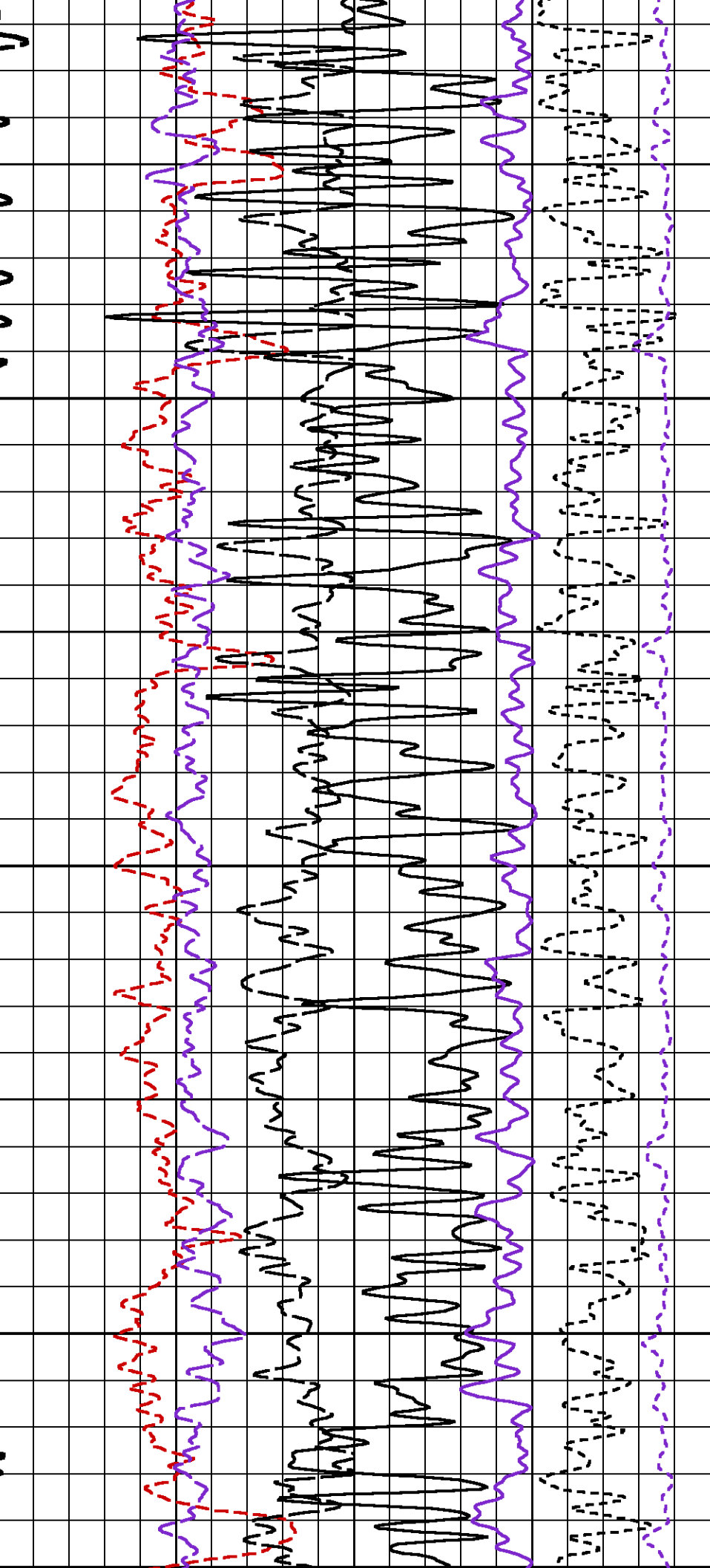
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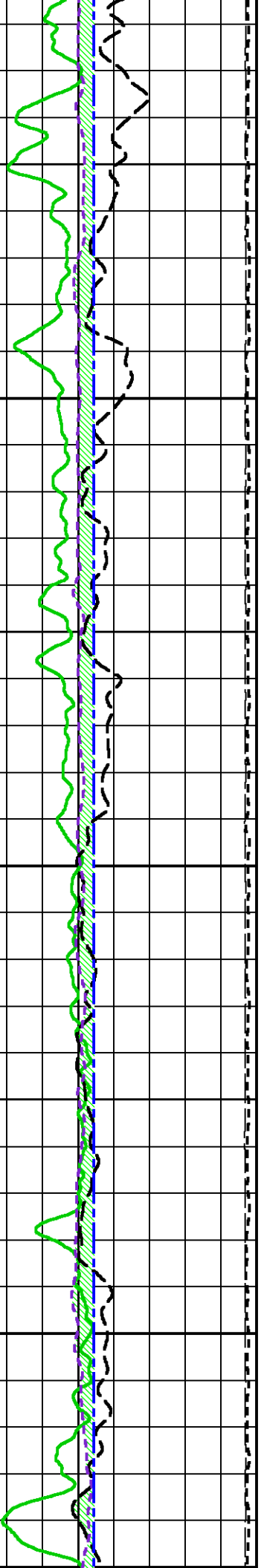


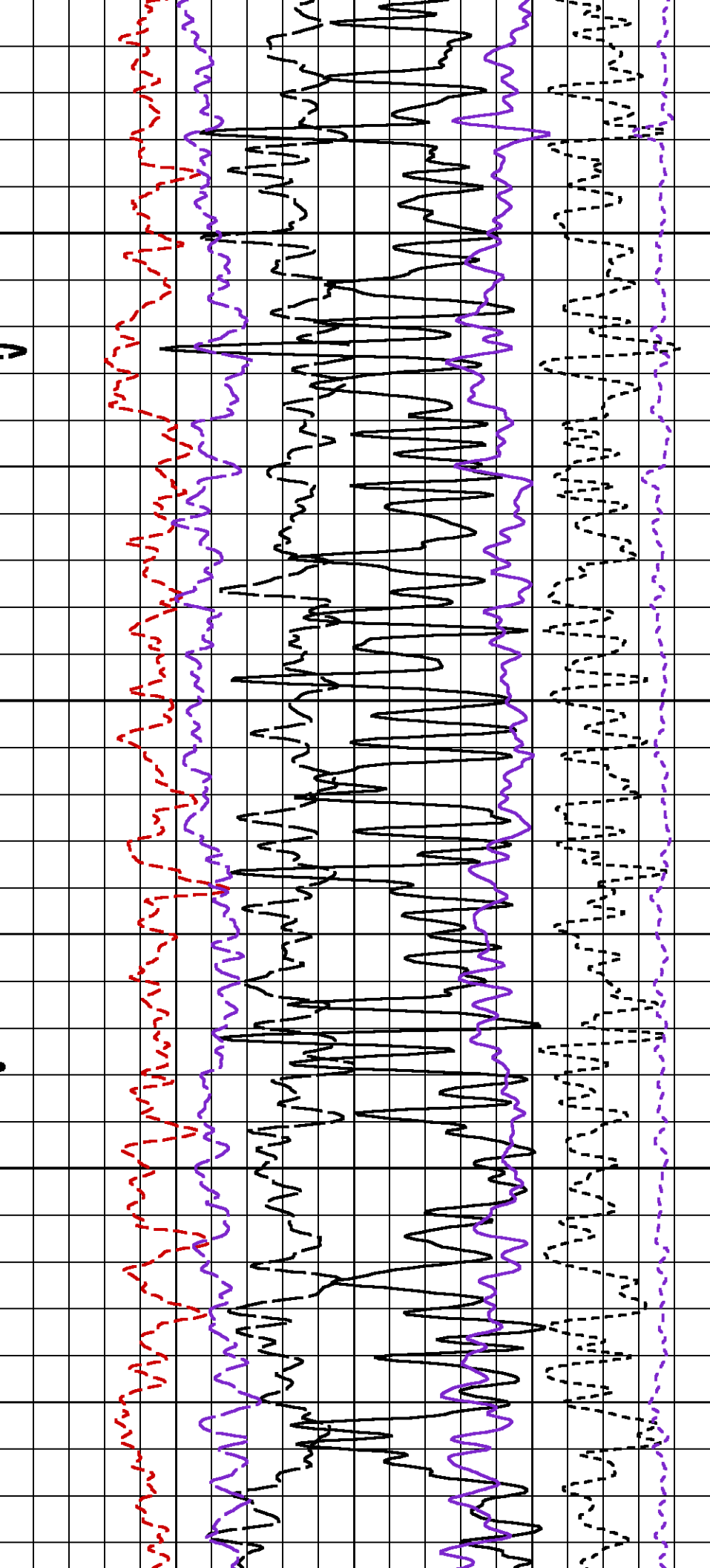


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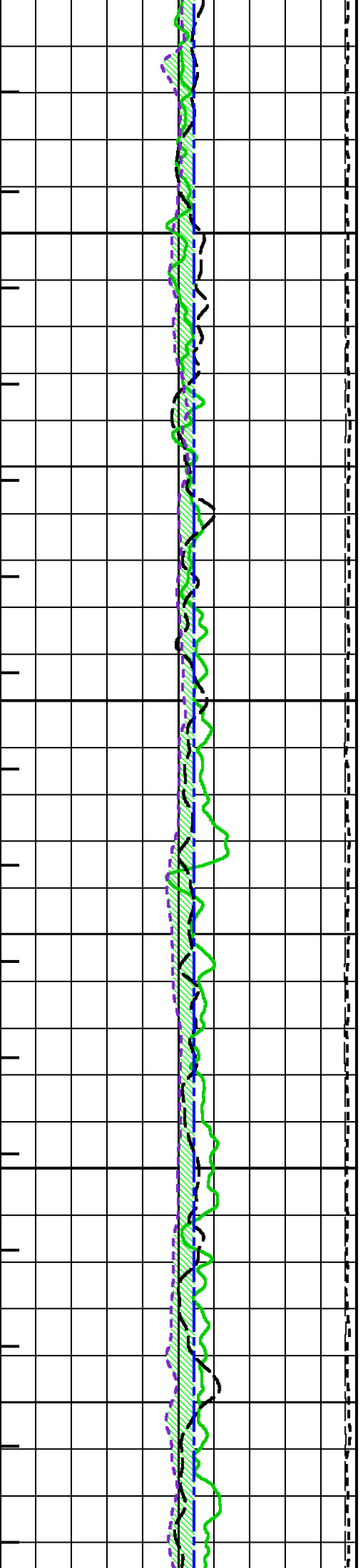


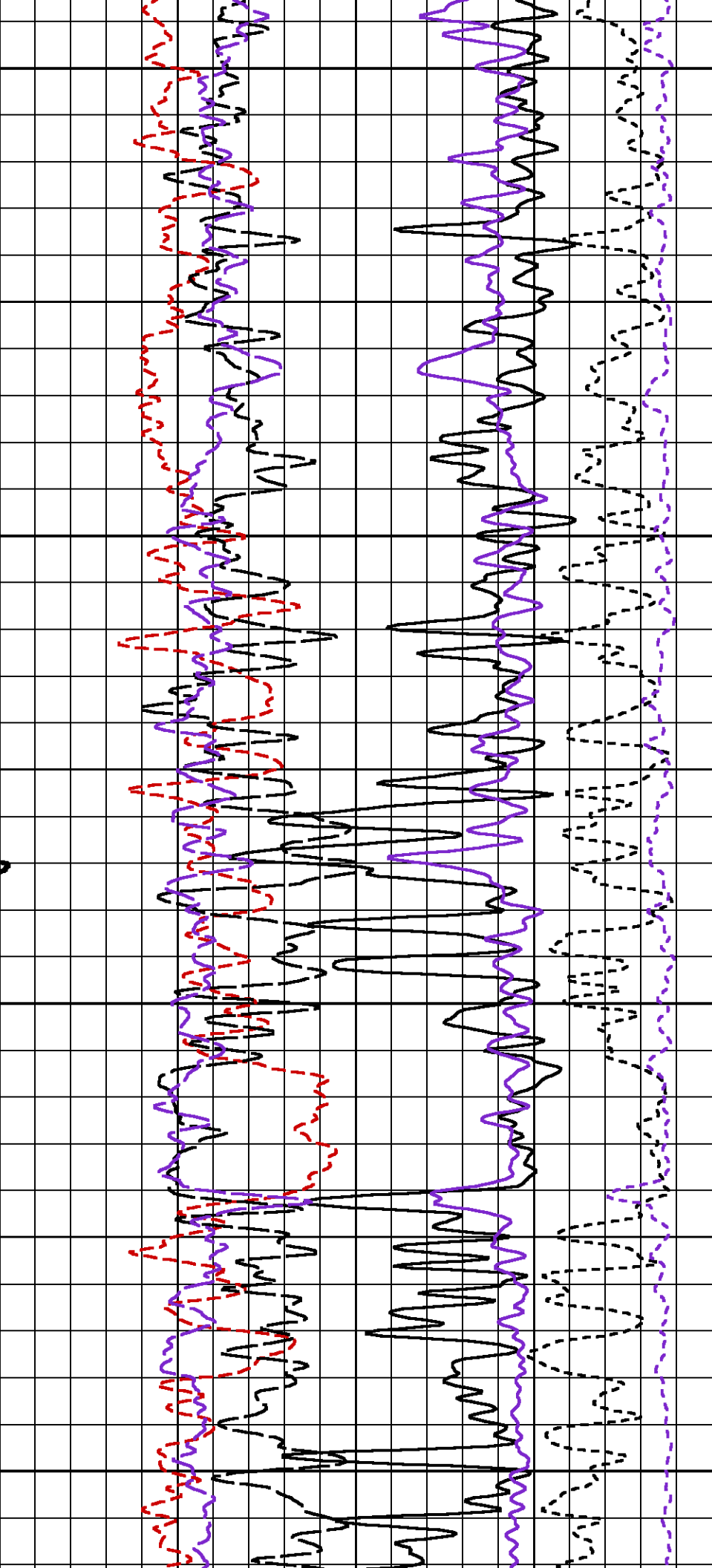


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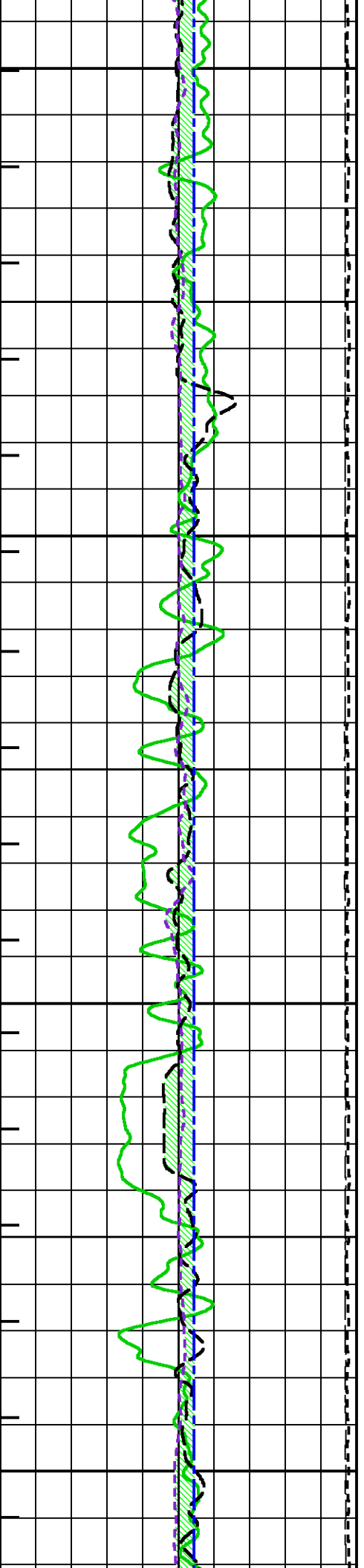


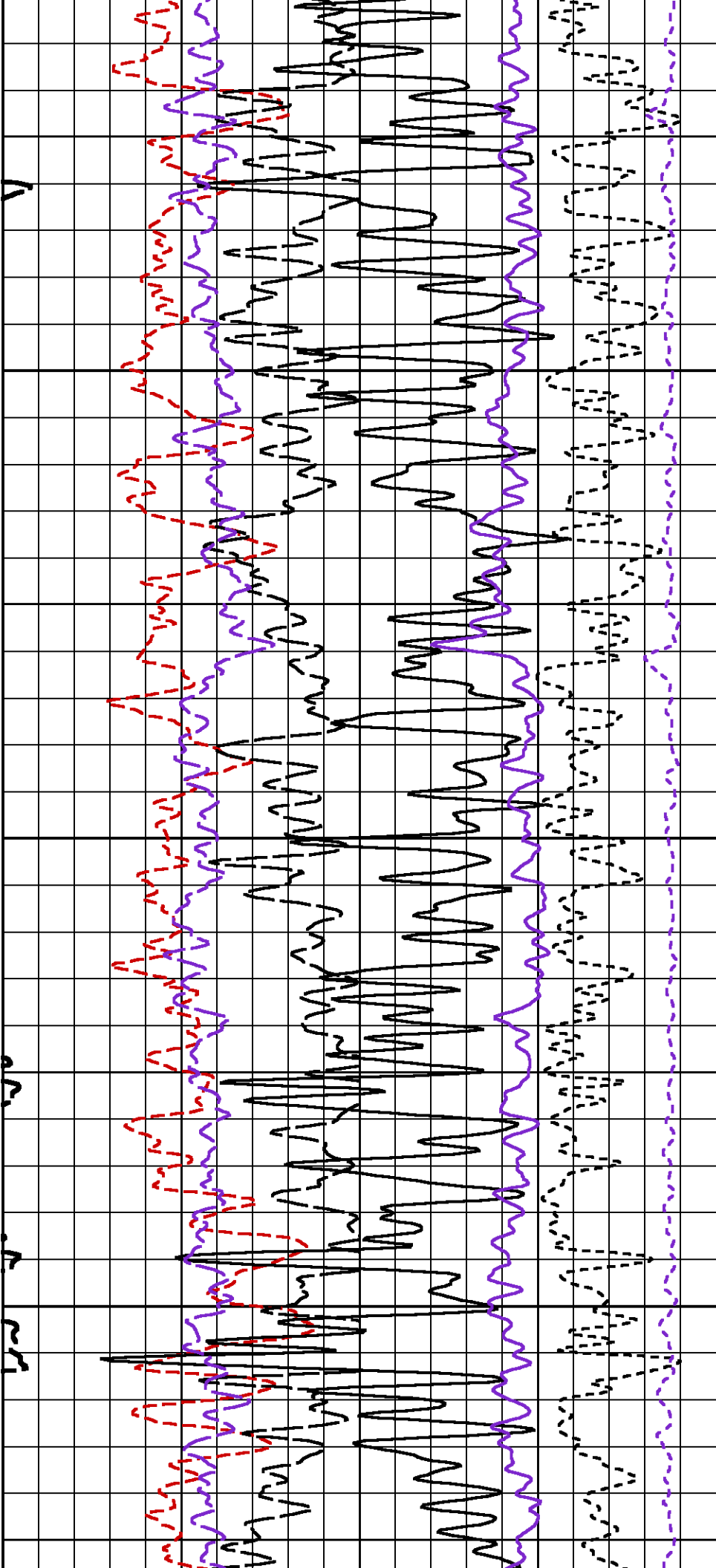
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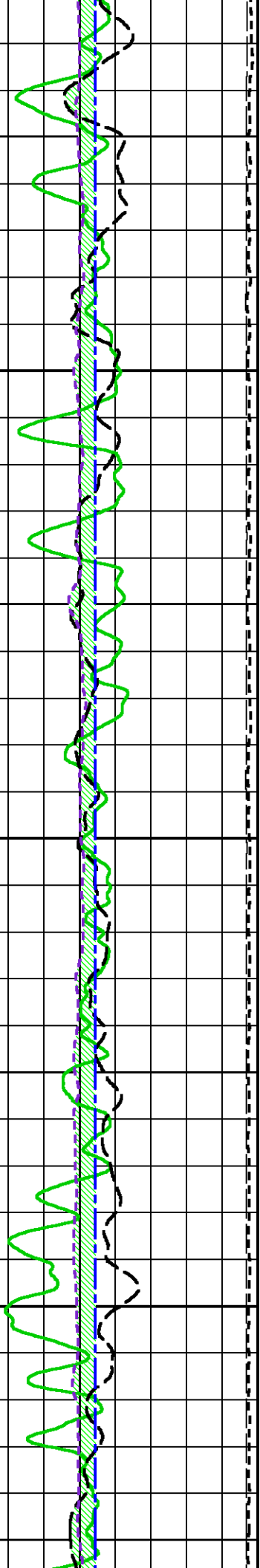


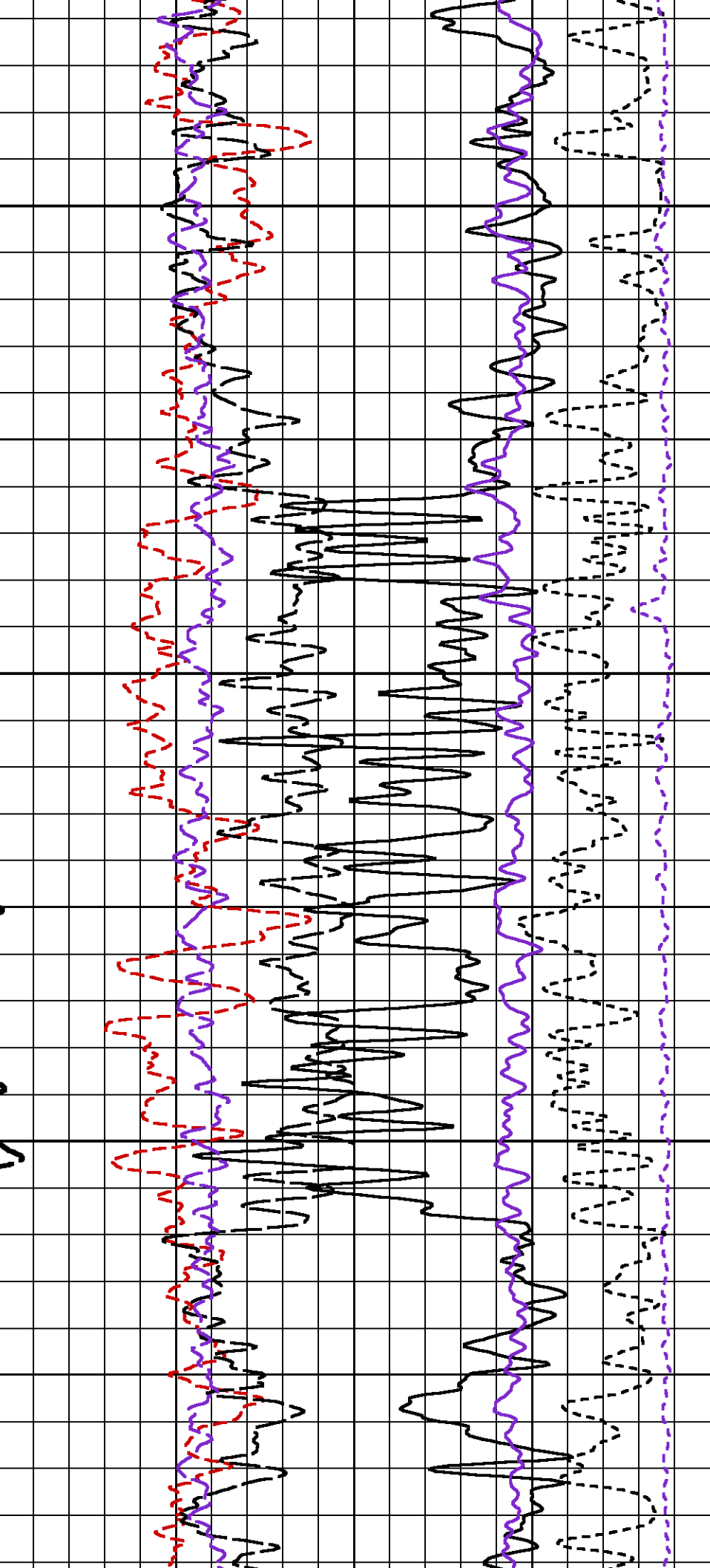


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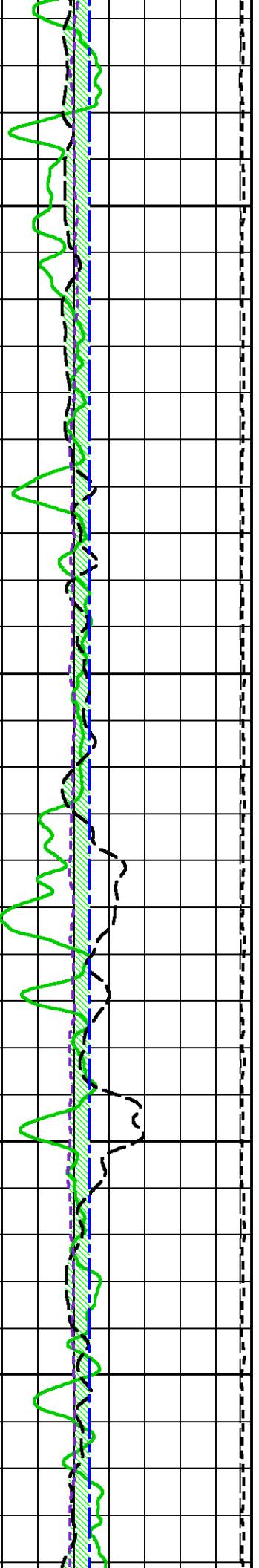


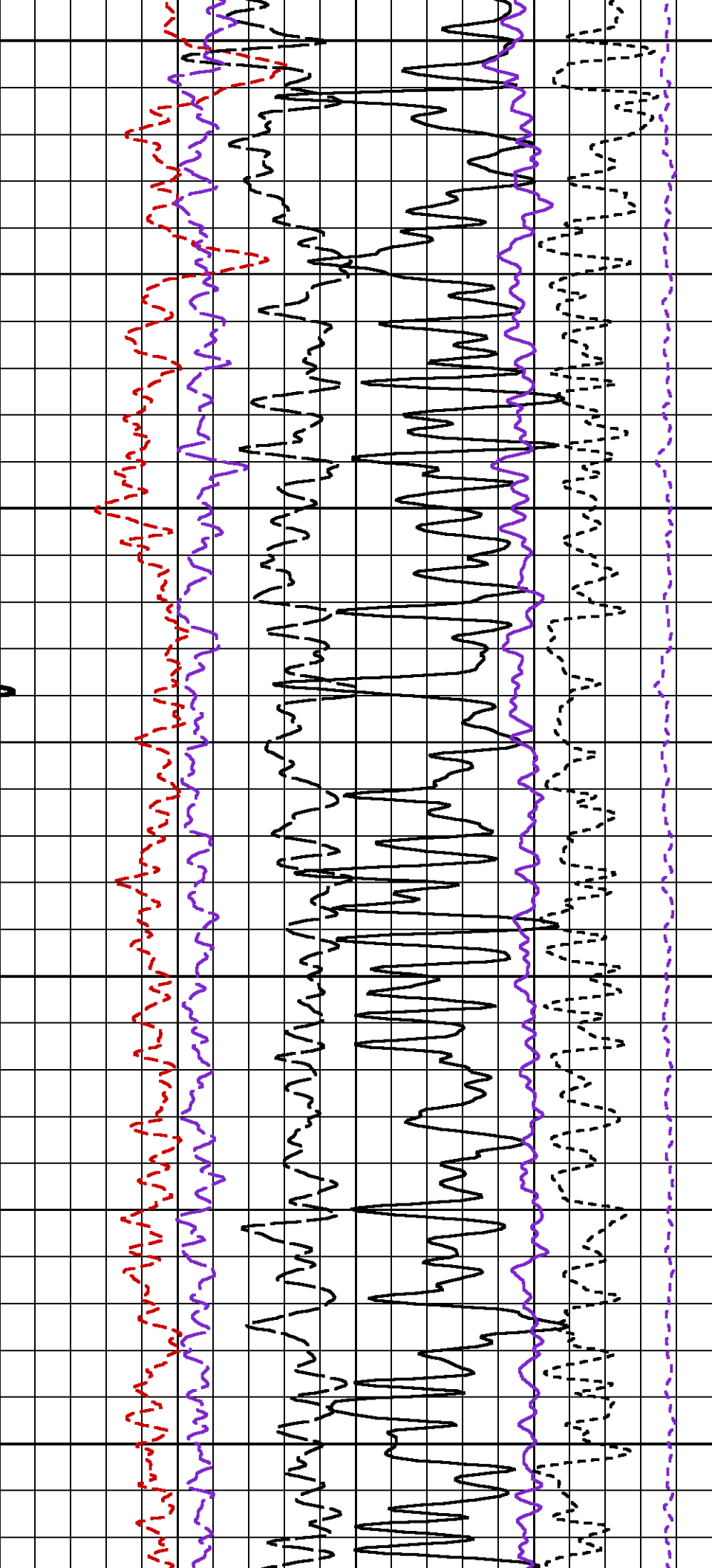


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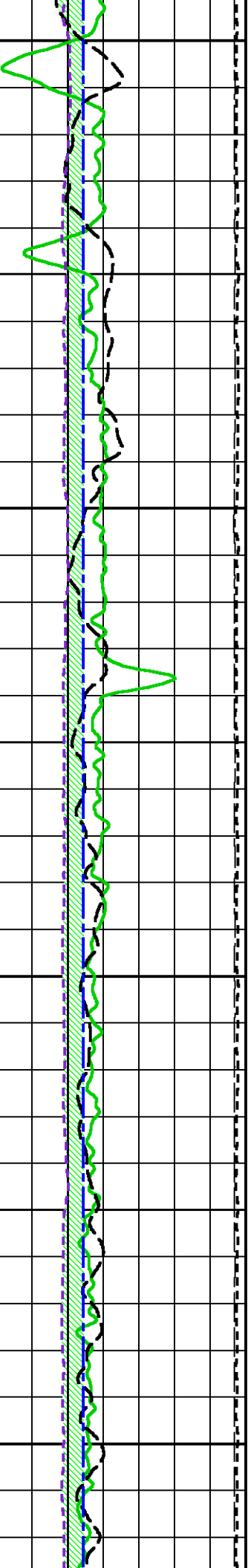


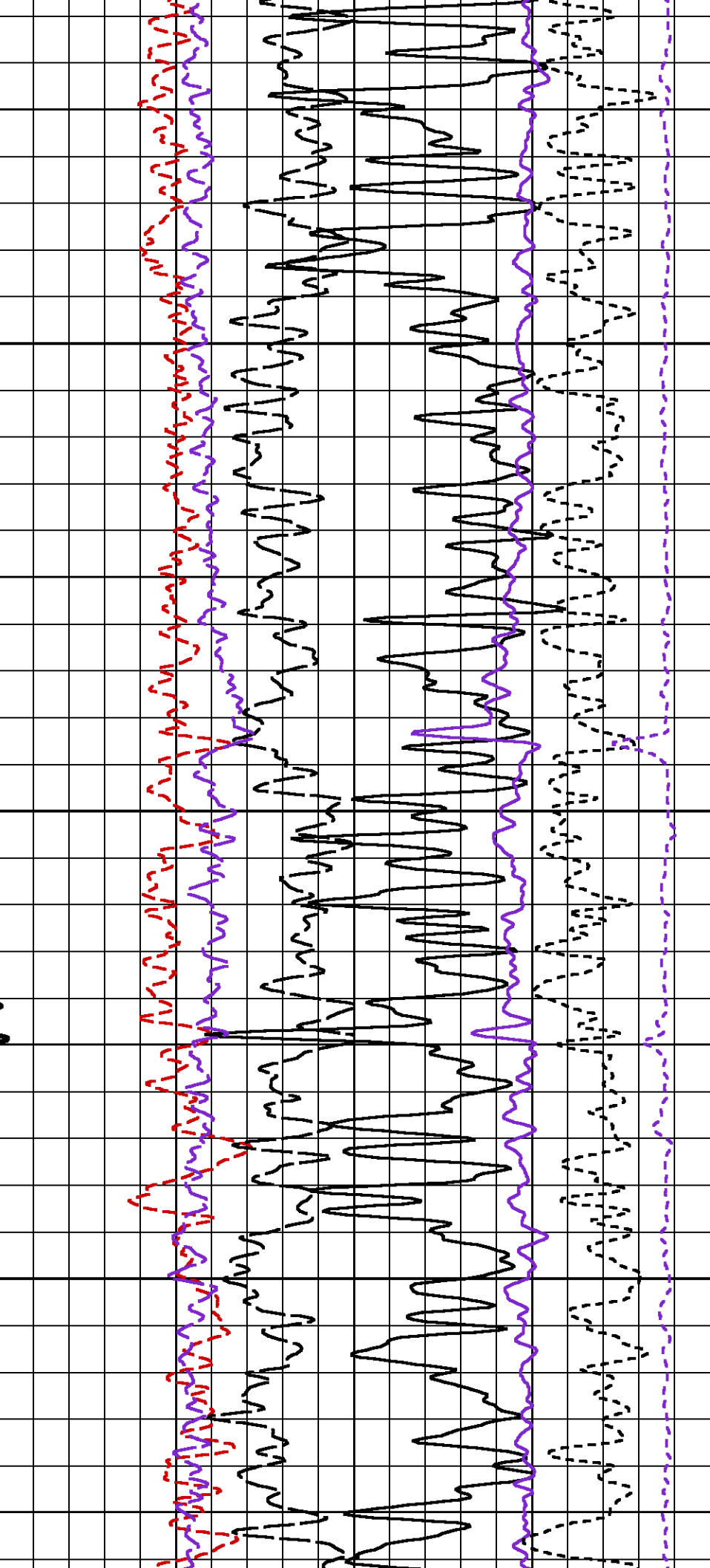
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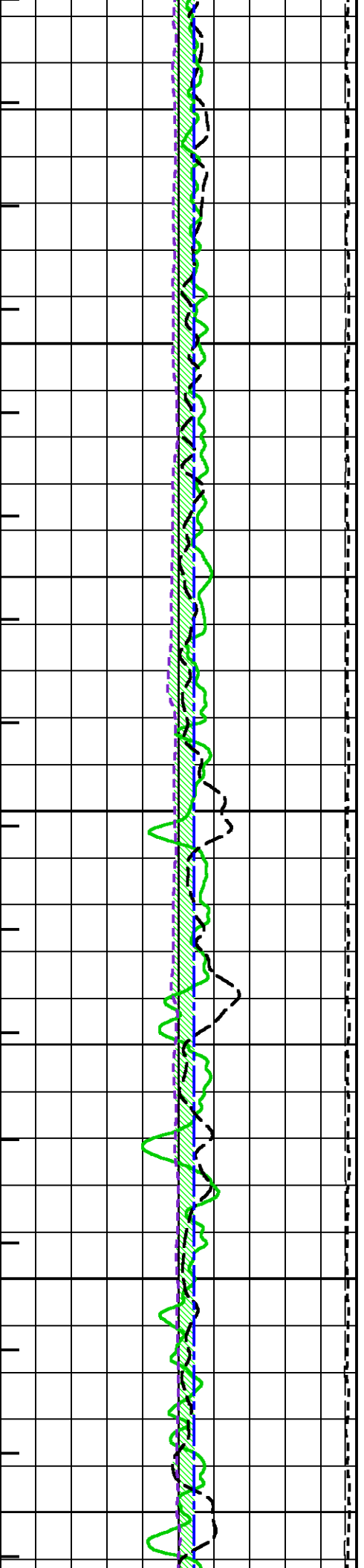


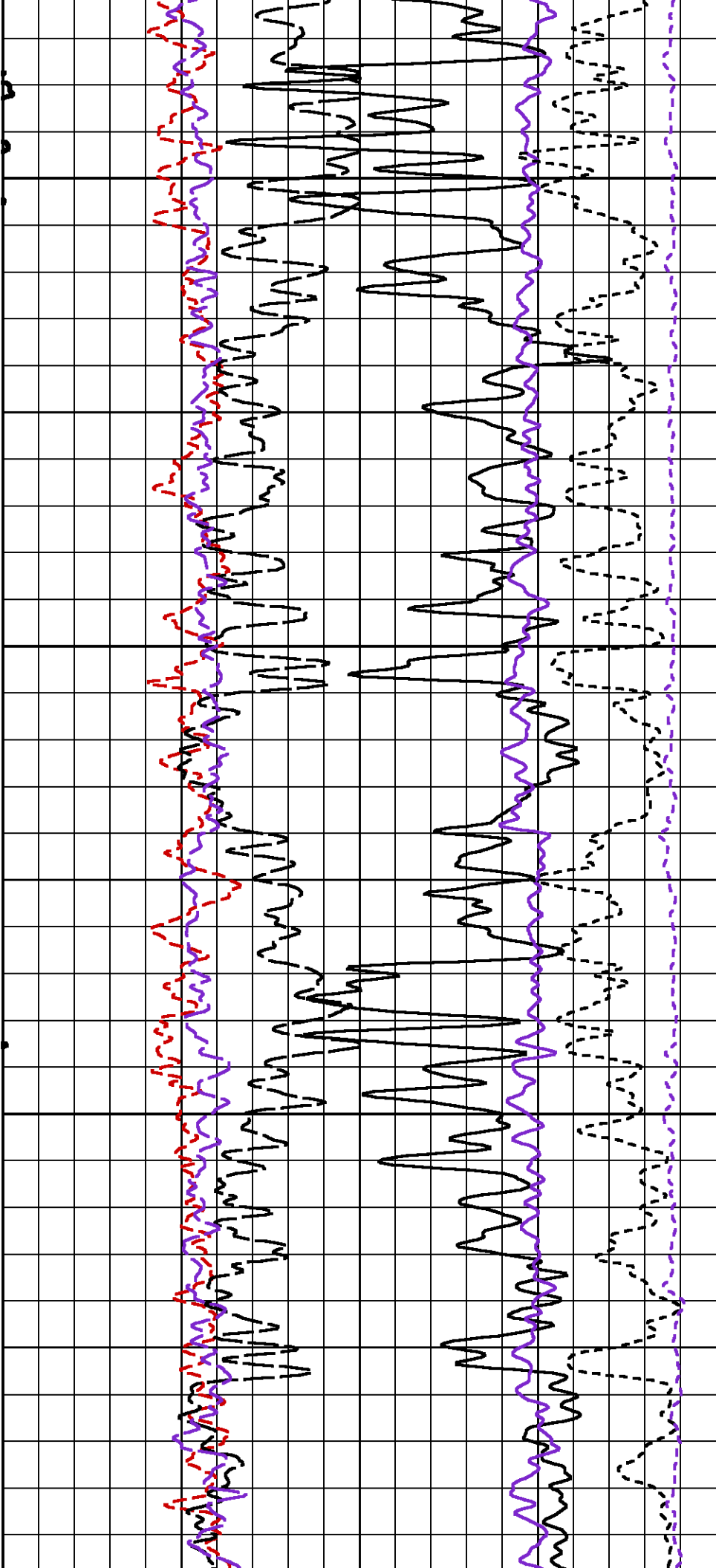


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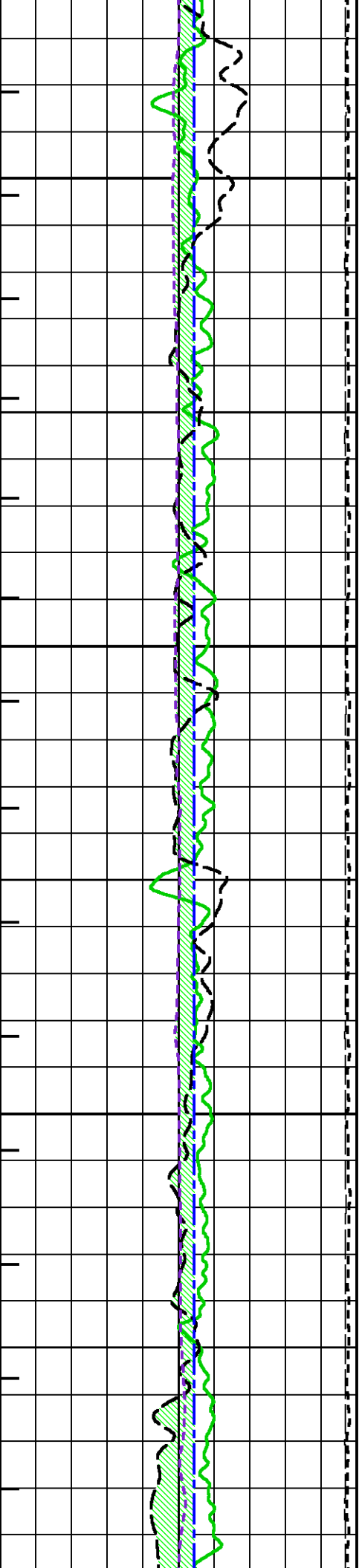


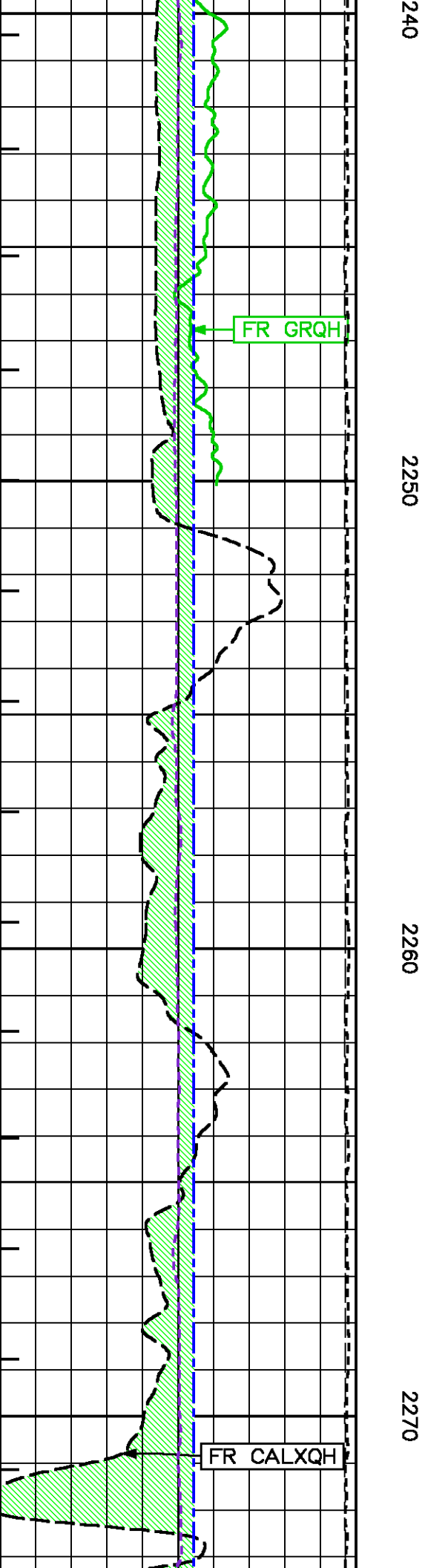
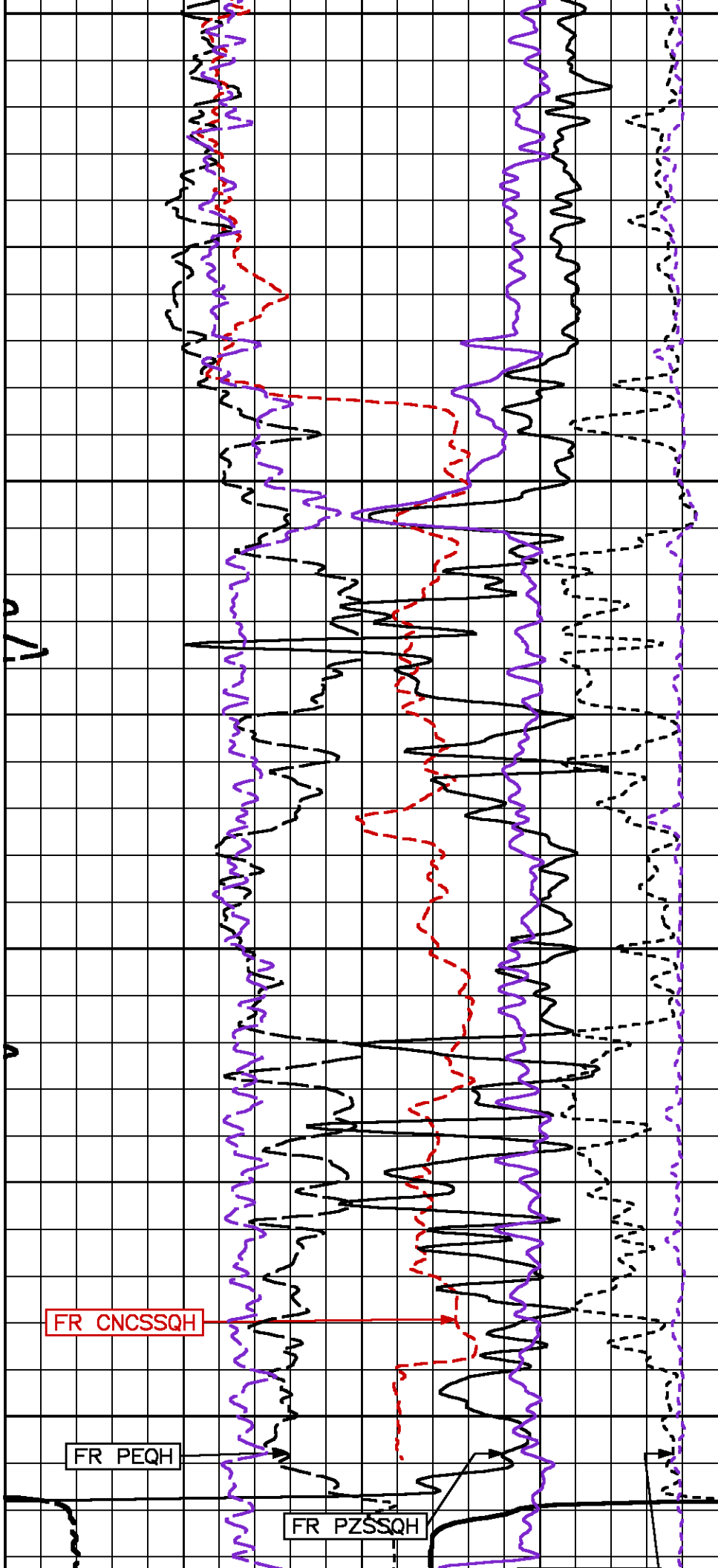
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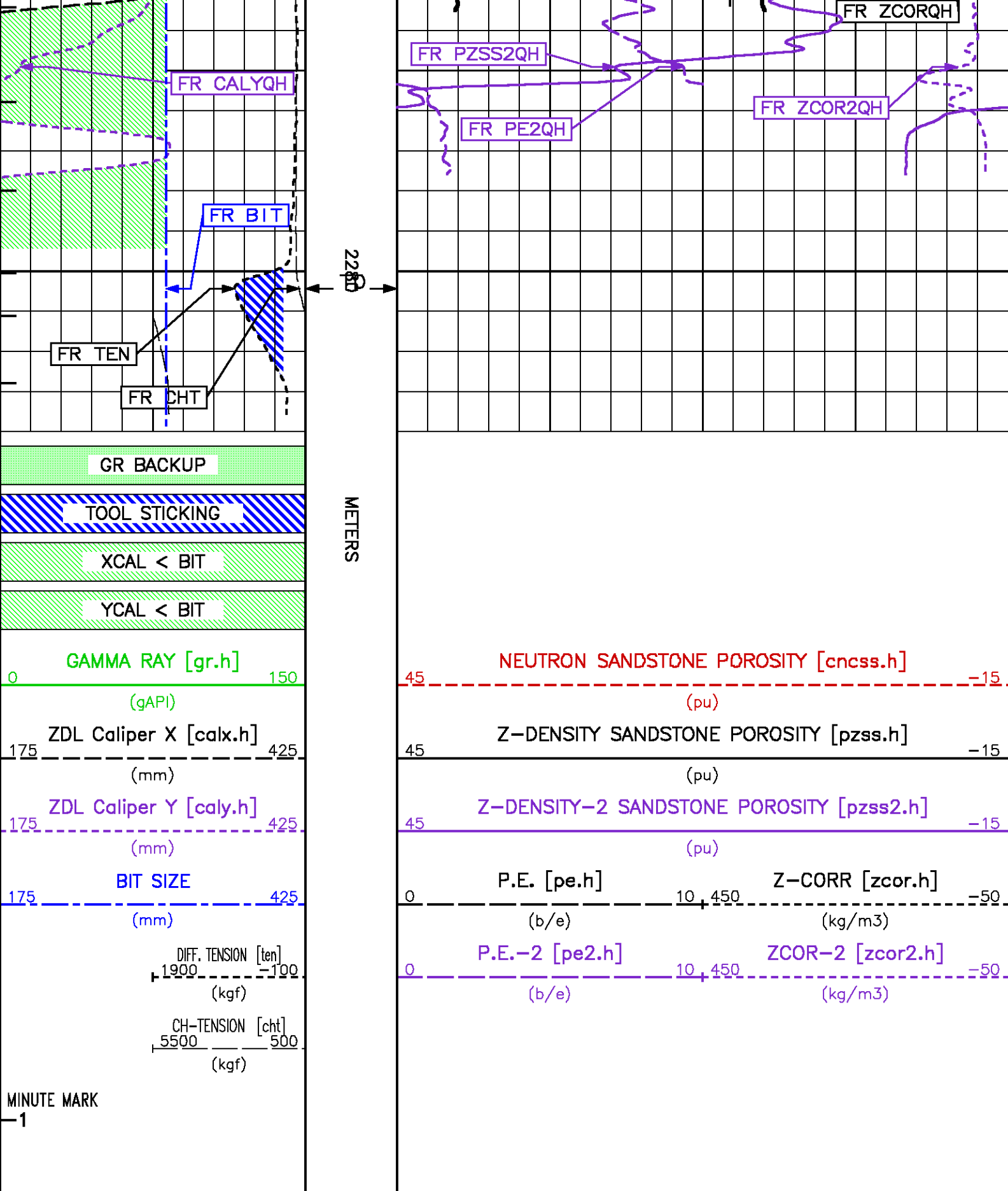
2220

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Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.50

PARAMETER AND FILTER SUMMARY REPORT

File: /data/pass/nalcor_run1/m980g03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 542.107 m BOTTOM DEPTH: 2283.998 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER (.h)	medium (1)		"	"
CALIPER	FILTER (.h)	medium (1)		"	"
CN HIGH RES	FILTER (.h)	light		"	"
ZDL HIGH RES	FILTER (hrd1*)	light		"	"
	FILTER (hrd12*)	light		"	"
	FILTER (hrd1s*)	light		"	"
	FILTER (hrd1s2*)	light		"	"
	FILTER (hrd2*)	light		"	"
	FILTER (hrd22*)	light		"	"
	FILTER (hrd2s*)	light		"	"
	FILTER (hrd2s2*)	light		"	"
	FILTER (soft*)	light		"	"
	FILTER (soft2*)	light		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	244.500	mm	TOP	BOTTOM
	CASING THICKNESS	0.000	mm	"	"
BIT SIZE	BIT SIZE	311.000	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	311.000	mm	"	"
X-Y COMBINED CALIPER PROCESSING-FOCM5Y	Caliper - FOCUS	Y-Axis		"	"

ACCELERATION PROCESSING

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

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CN BOREHOLE CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
	BOREHOLE CORRECTION	ON		"	"
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE BEHIND CSNG	444.500	mm	"	"

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DENSITY POROSITY	Air Filled Borehole	NO		TOP	BOTTOM
	RHOfluid	1.000	g/cm3	"	"
	RHOmatrix (lime)	2.710	g/cm3	"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION	
F1:BIT	Nov 3 01:15:13 2010	BIT SIZE	
F1:CALXQH	Nov 3 01:15:13 2010	CALIPER FROM X-AXIS OF XY CALIPER(S)	
F1:CALYQH	Nov 3 01:15:13 2010	CALIPER FROM Y-AXIS OF XY CALIPER(S)	
F1:CHT	Nov 3 01:15:13 2010	CABLE HEAD TENSION	
F1:CNCLSQH	Nov 3 01:15:13 2010	BOREHOLE SIZE CORRECTED LIMESTONE COMPENSATED NEU POROSITY	

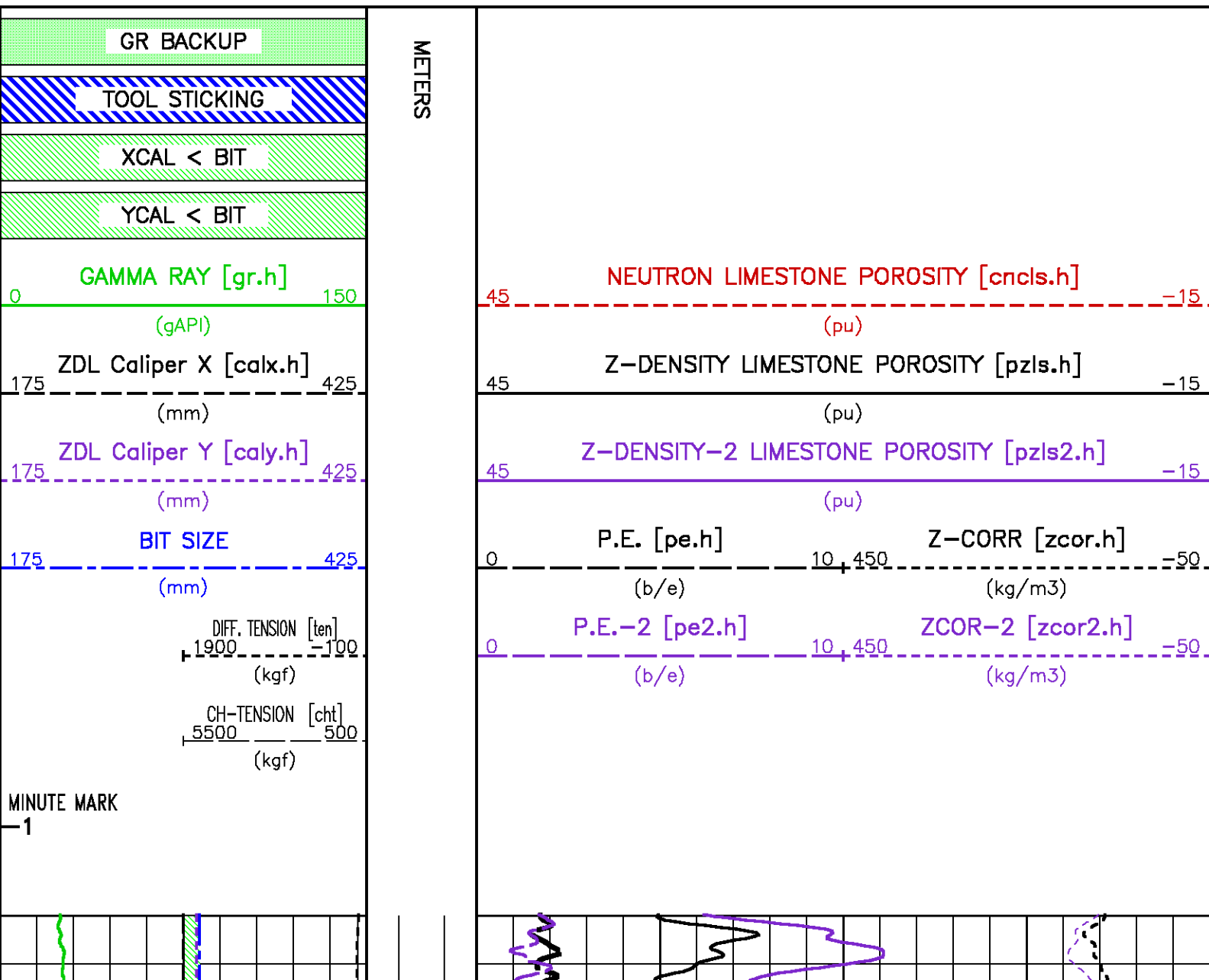
F1:GRQH	Nov	3	01:15:13	2010	GAMMA RAY
F1:MMRK	Nov	3	01:15:13	2010	MINUTE MARK
F1:PE2QH	Nov	3	01:15:13	2010	PHOTOELECTRIC CROSS-SECTION (2ND TOOL)
F1:PEQH	Nov	3	01:15:13	2010	PHOTO ELECTRIC CROSS-SECTION
F1:PZLS2QH	Nov	3	01:15:13	2010	POROSITY FOR LIMESTONE MATRIX (2ND TOOL)
F1:PZLSQH	Nov	3	01:15:13	2010	POROSITY FOR LIMESTONE MATRIX
F1:TEN	Nov	3	01:15:13	2010	DIFFERENTIAL TENSION
F1:ZCOR2QH	Nov	3	01:15:13	2010	DENSITY CORRECTION (2ND TOOL)
F1:ZCORQH	Nov	3	01:15:13	2010	DENSITY CORRECTION

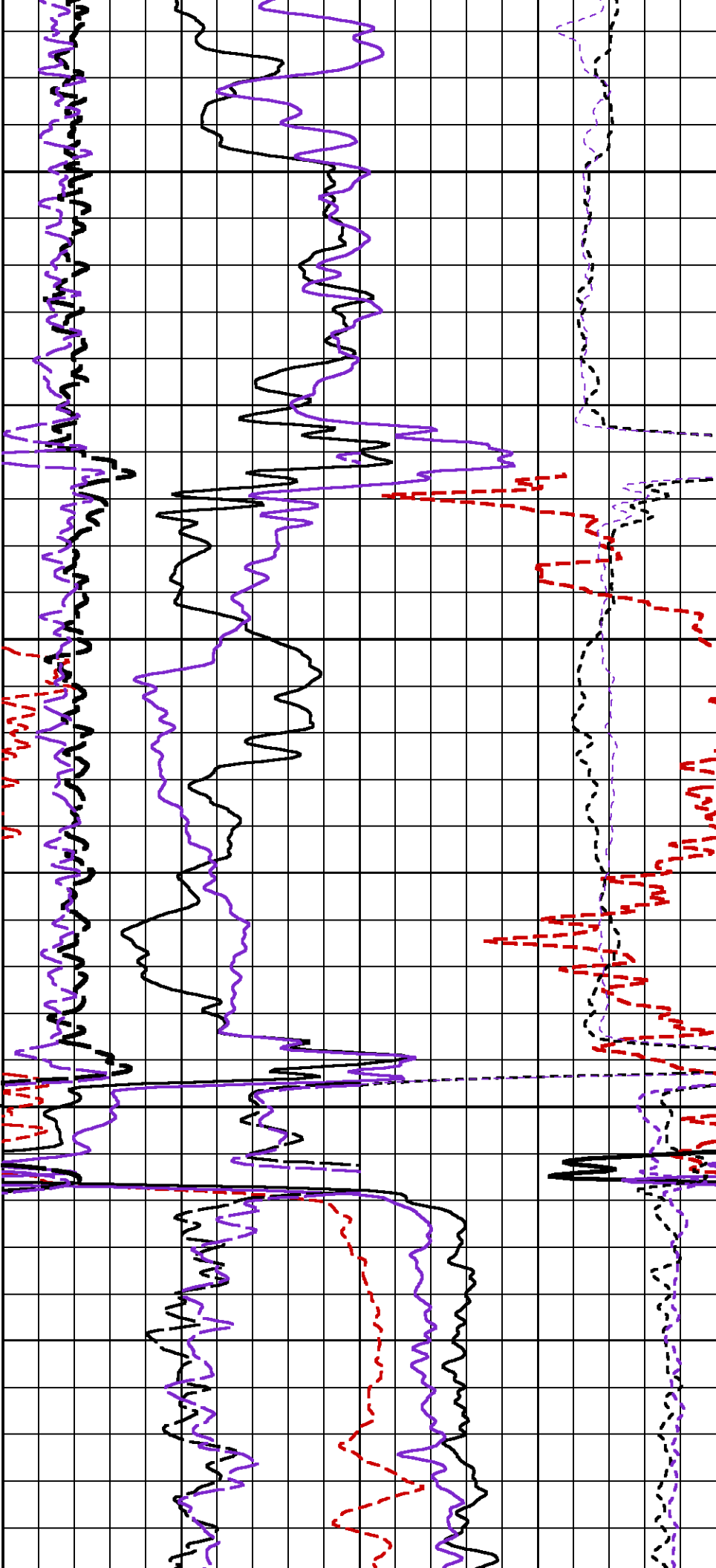
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CNCLSQH	12.50	PZLS2QH	5.52	ZCORQH	9.64
CALXQH	9.64	GRQH	33.68	PZLSQH	9.64		
CALYQH	5.52	PE2QH	5.52	TEN	0.00		
CHT	0.00	PEQH	9.64	ZCOR2QH	5.52		

Presentation : cpu1:/dat1a/pass/nalcor_run1/zdl2_hires_ls.pdf [1:120 Scale]
Plot Interval : 545 - 2283.94 Meters

Data File 1 : F1 : cpu1:/dat1a/pass/nalcor_run1/r1t2_mainl.xtf
Created On : Nov 3 01:15:13 2010
Company : NALCOR ENERGY
Well : NALCOR ET AL FINNEGAN 31
Field : FINNEGAN
File Interval : 504.749 - 2283.98 Meters
Oct : m980g



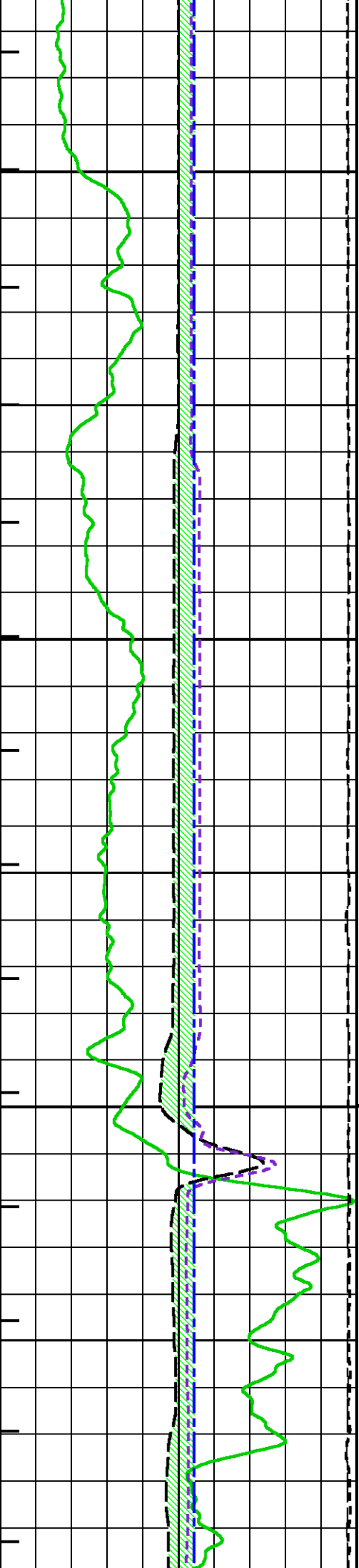


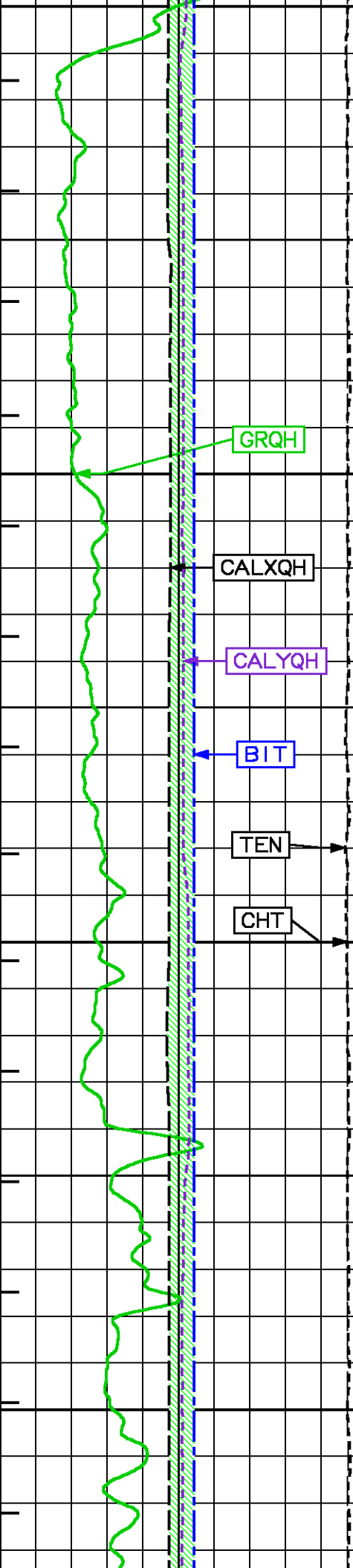
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560

570

5



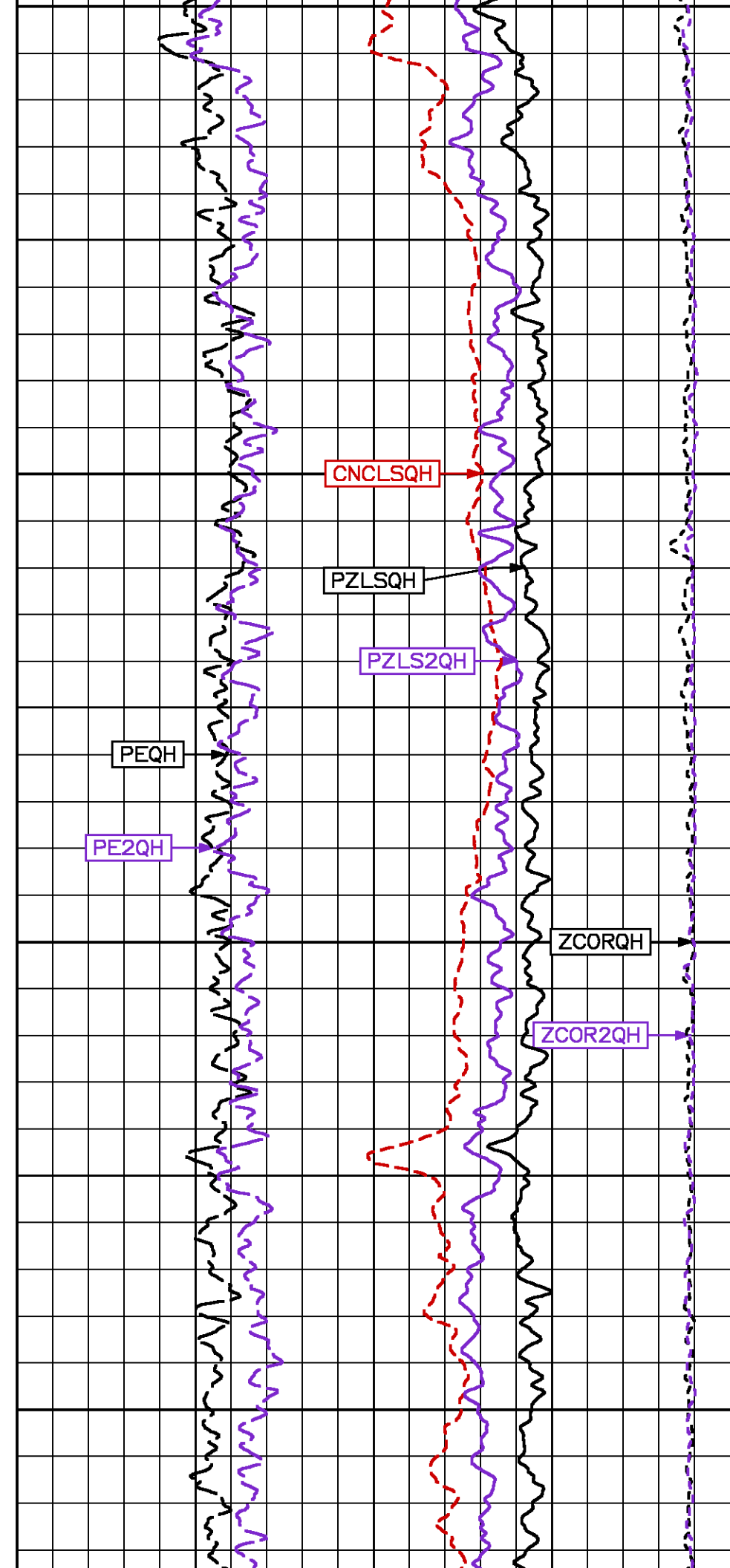


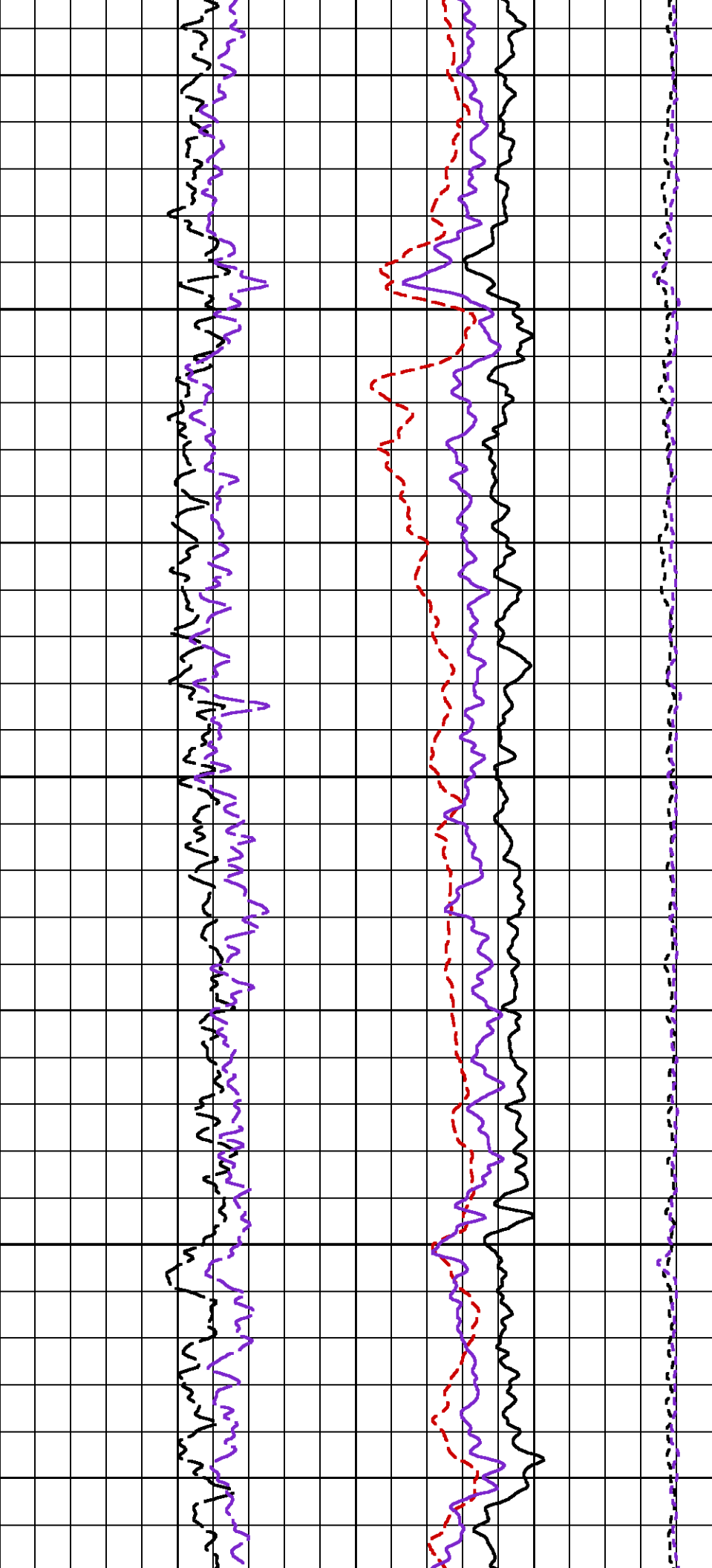
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590

600

610

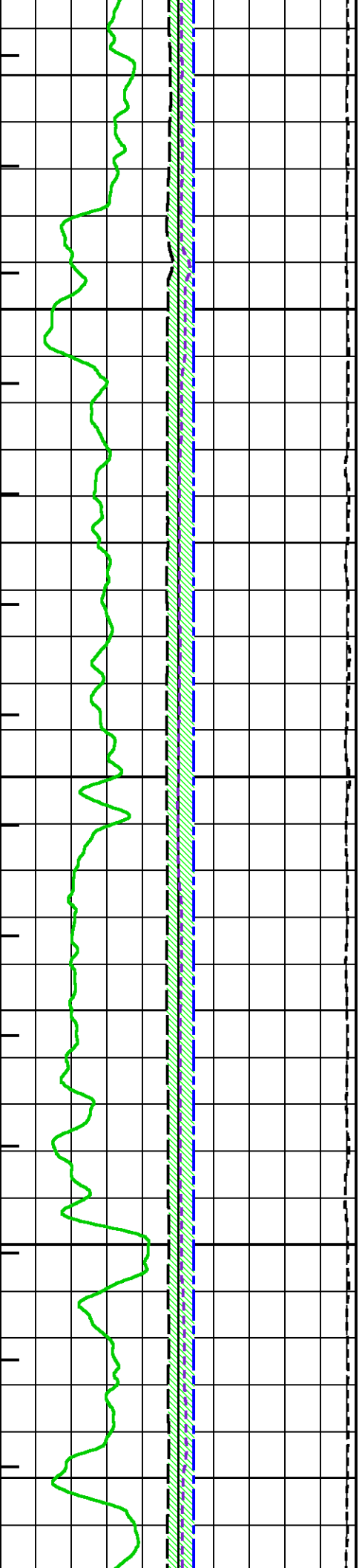


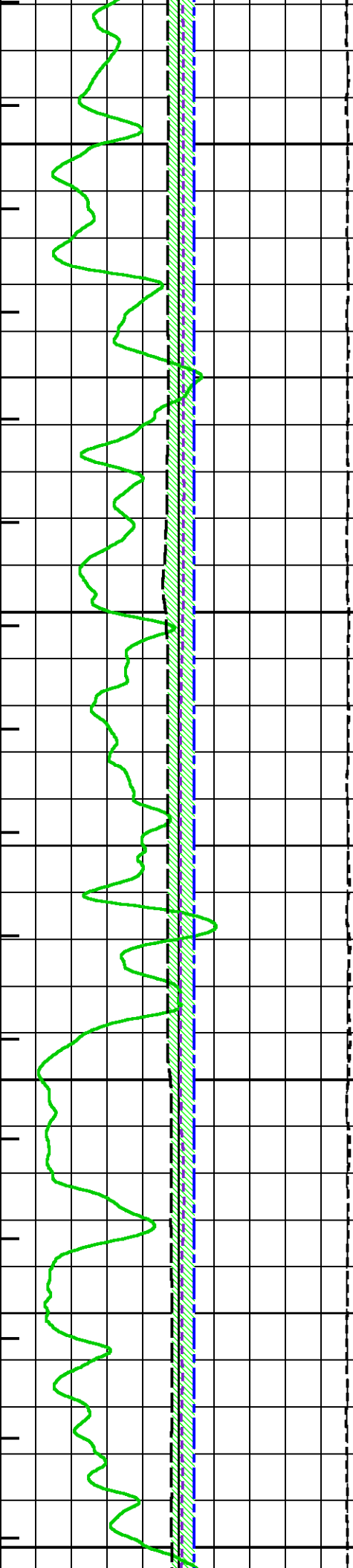


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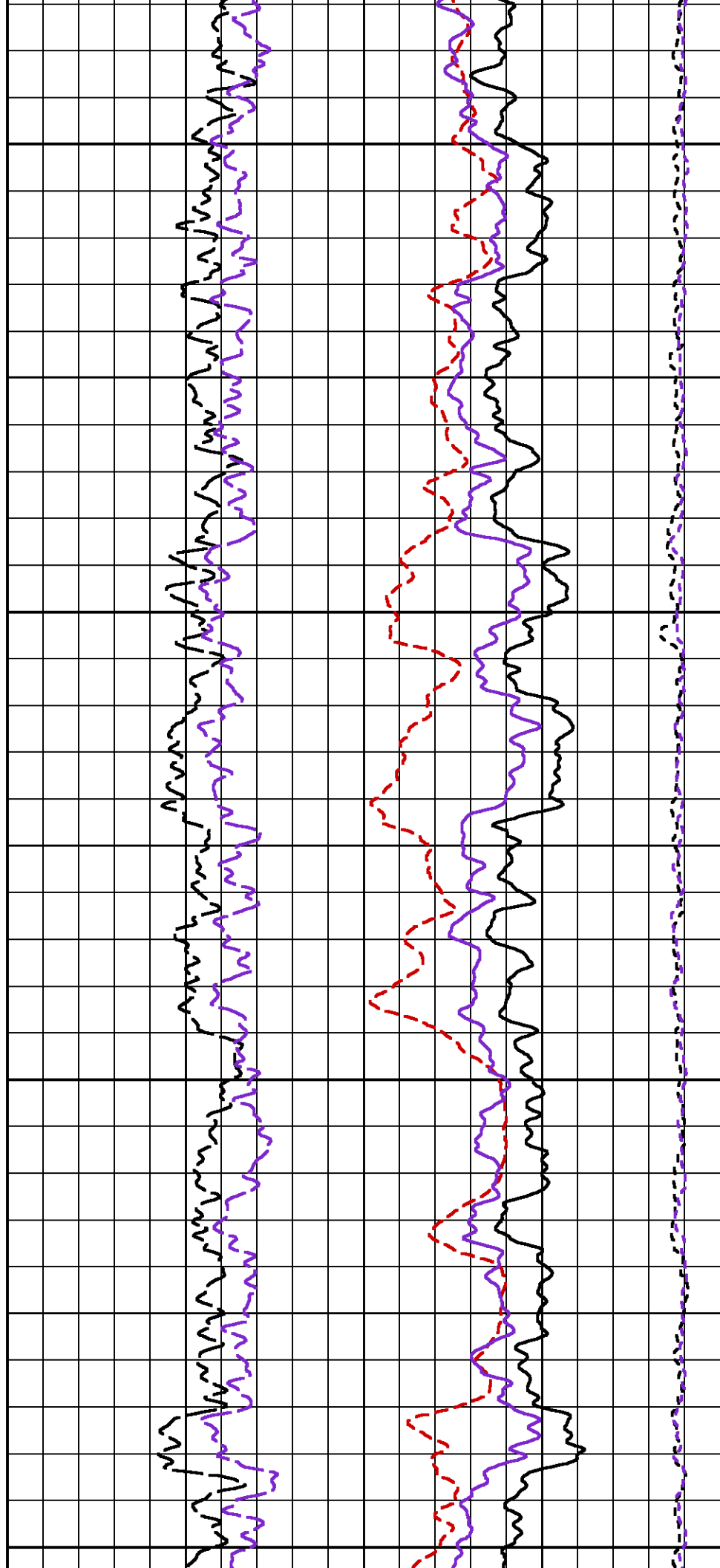


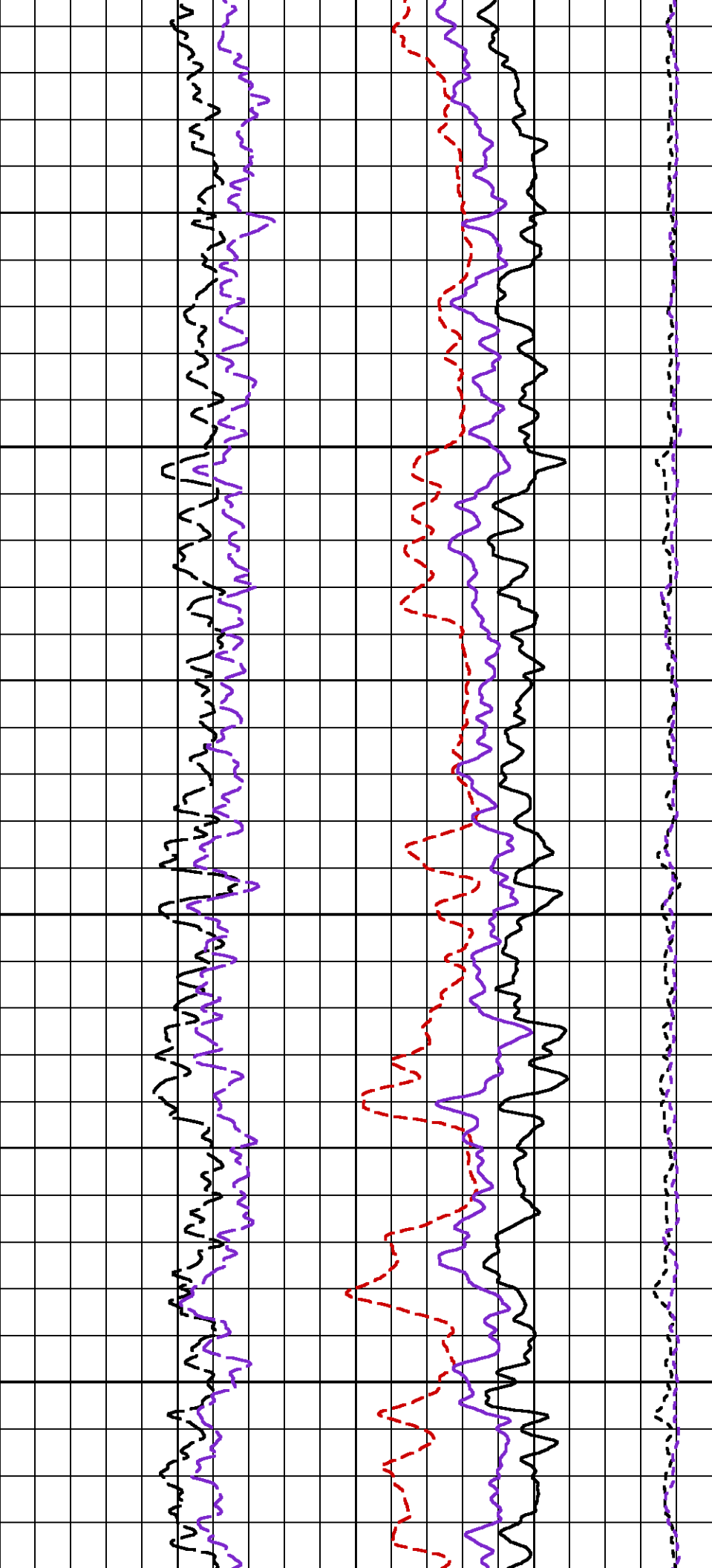
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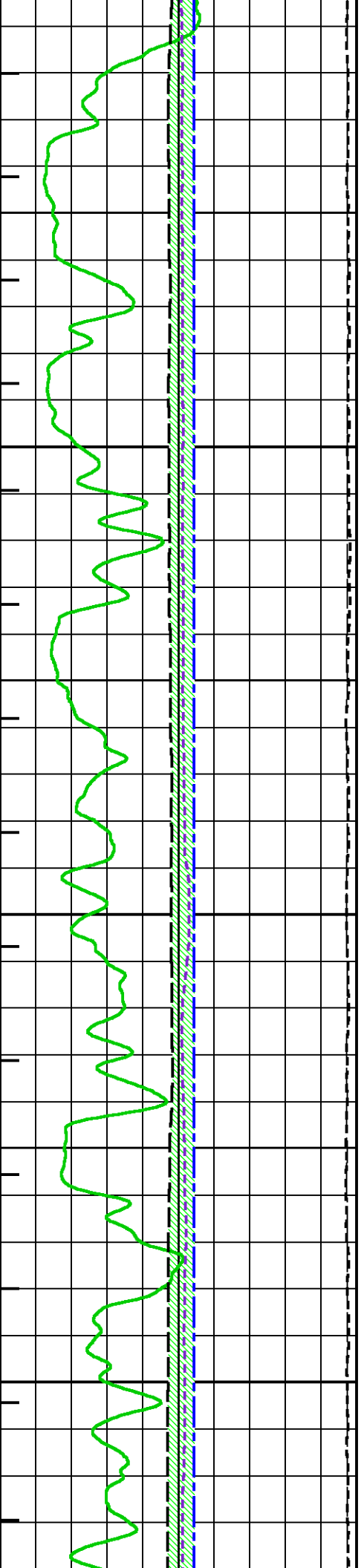


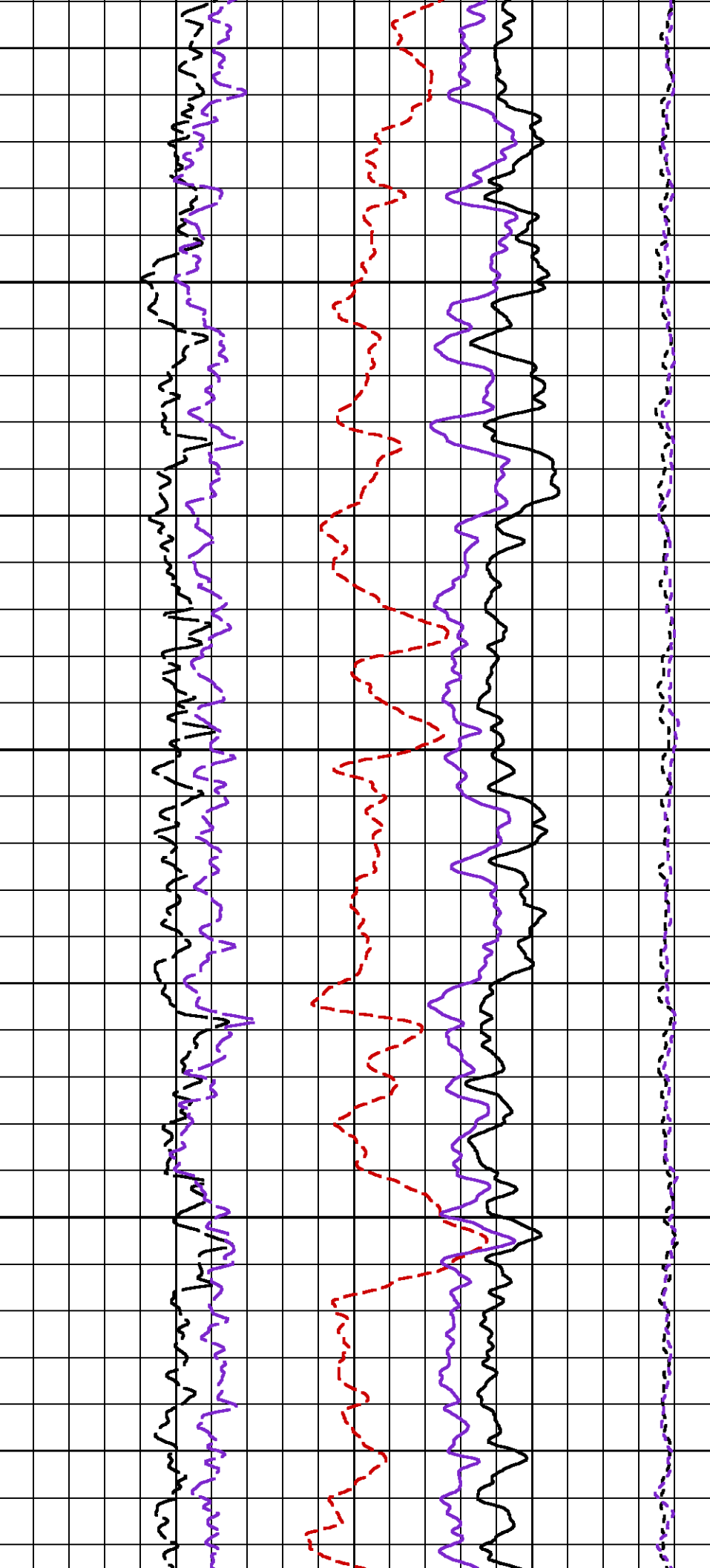


690

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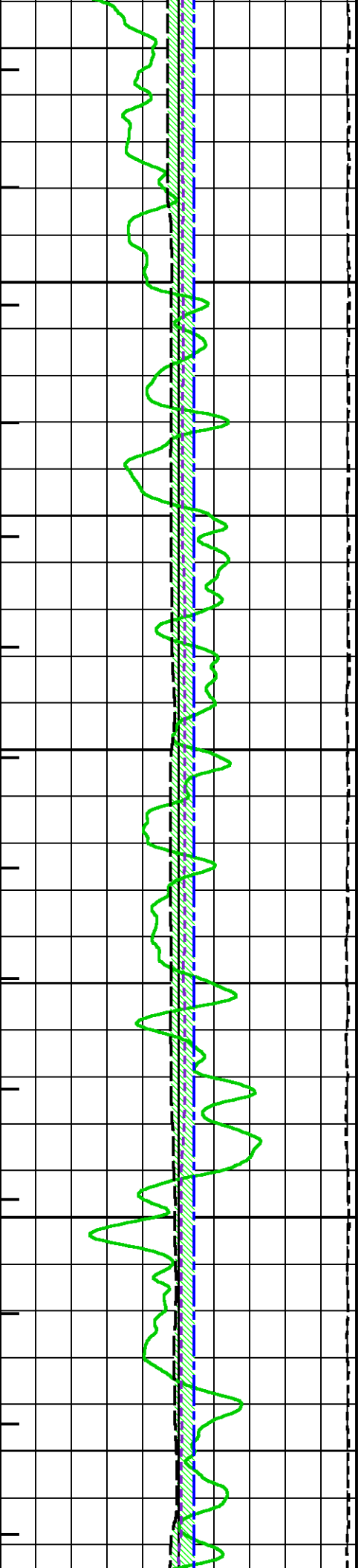


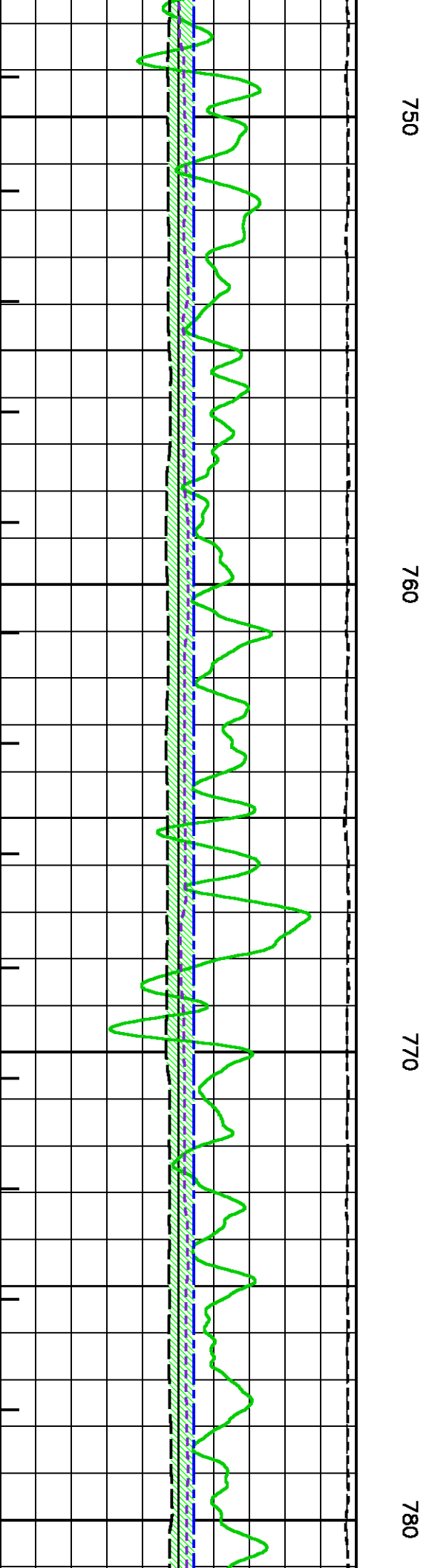
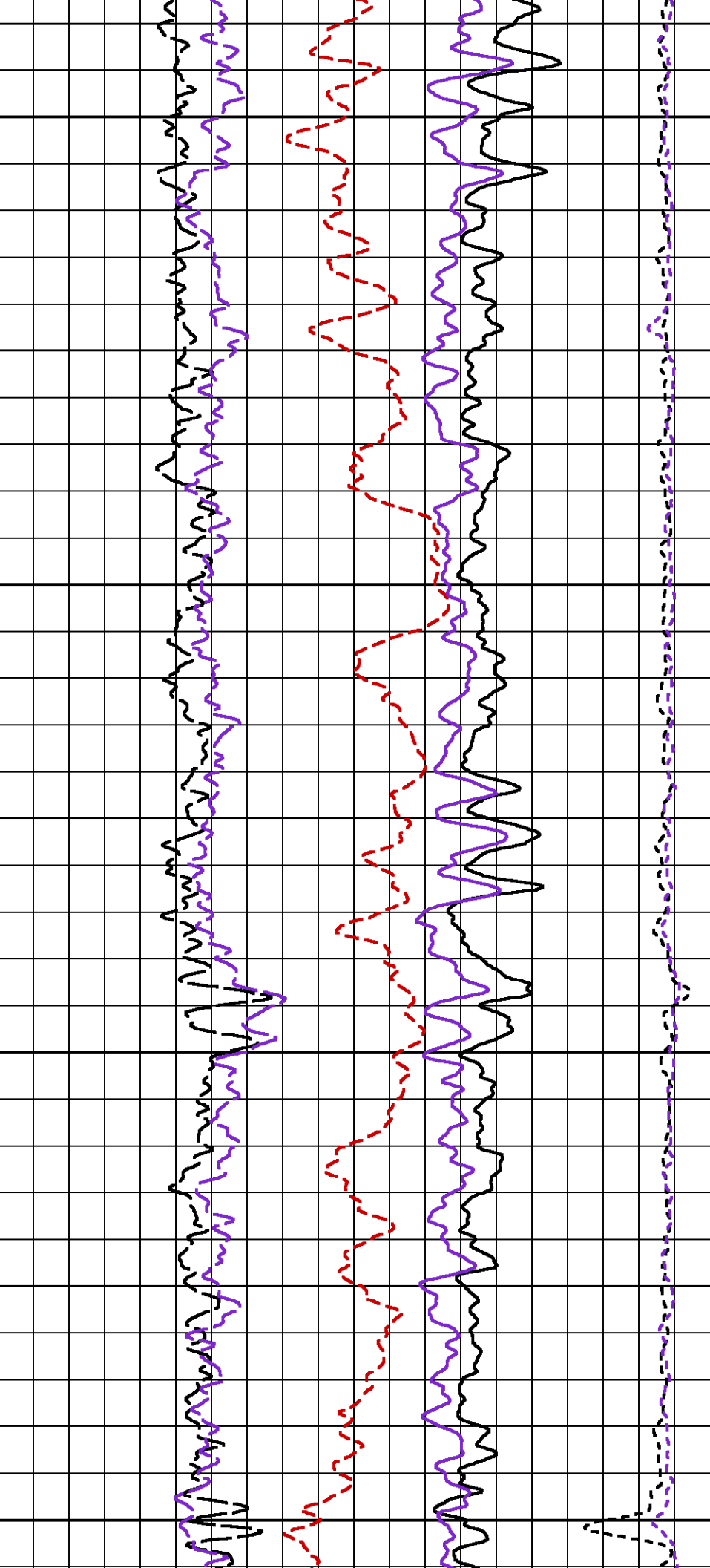


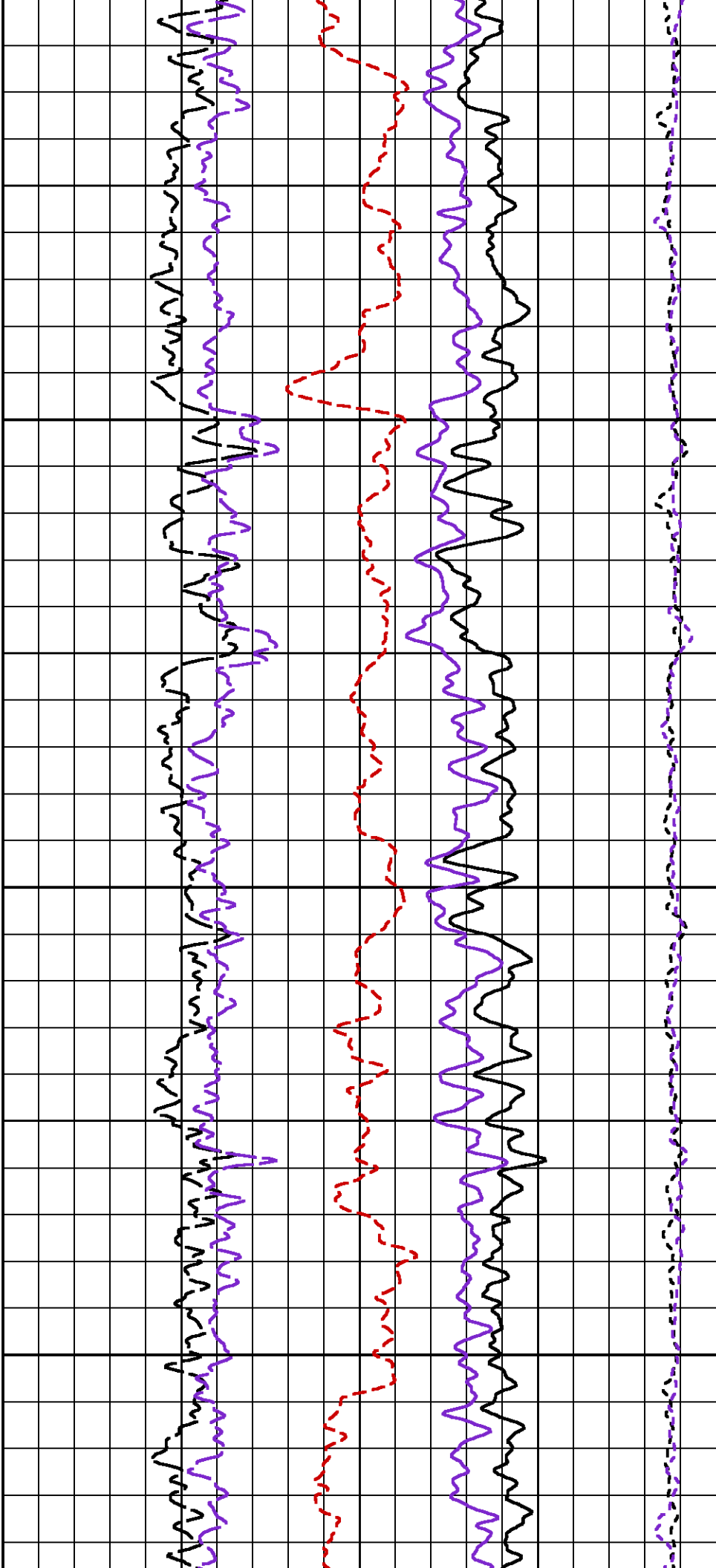
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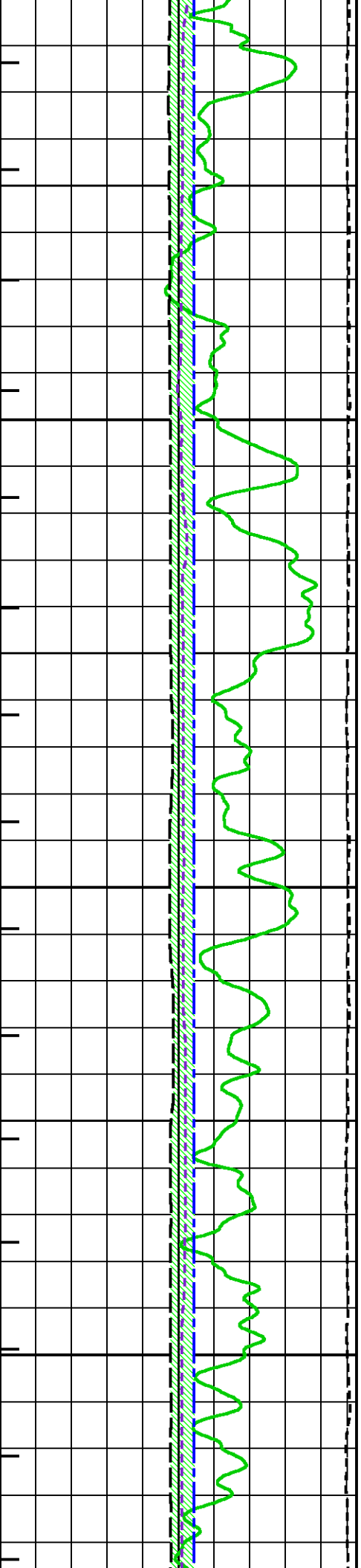


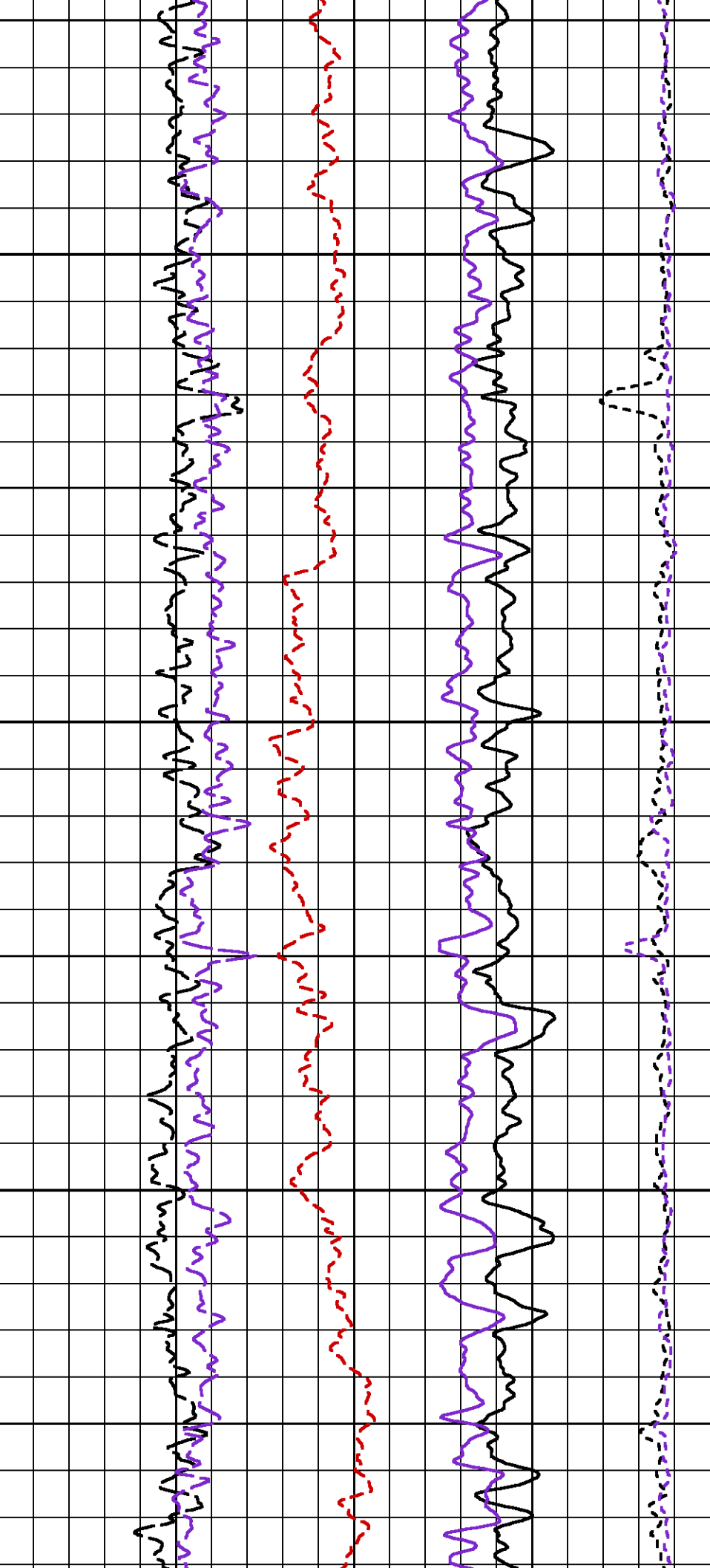


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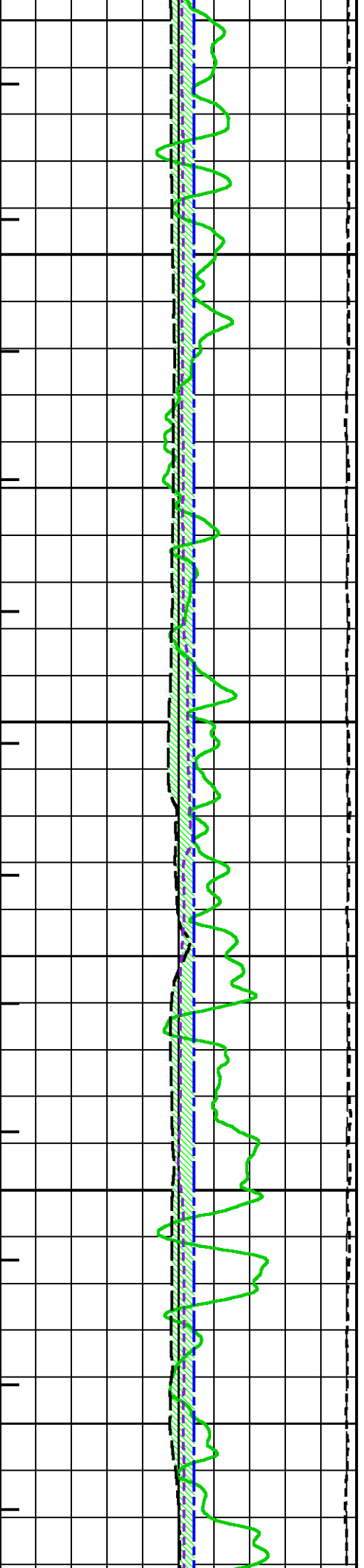


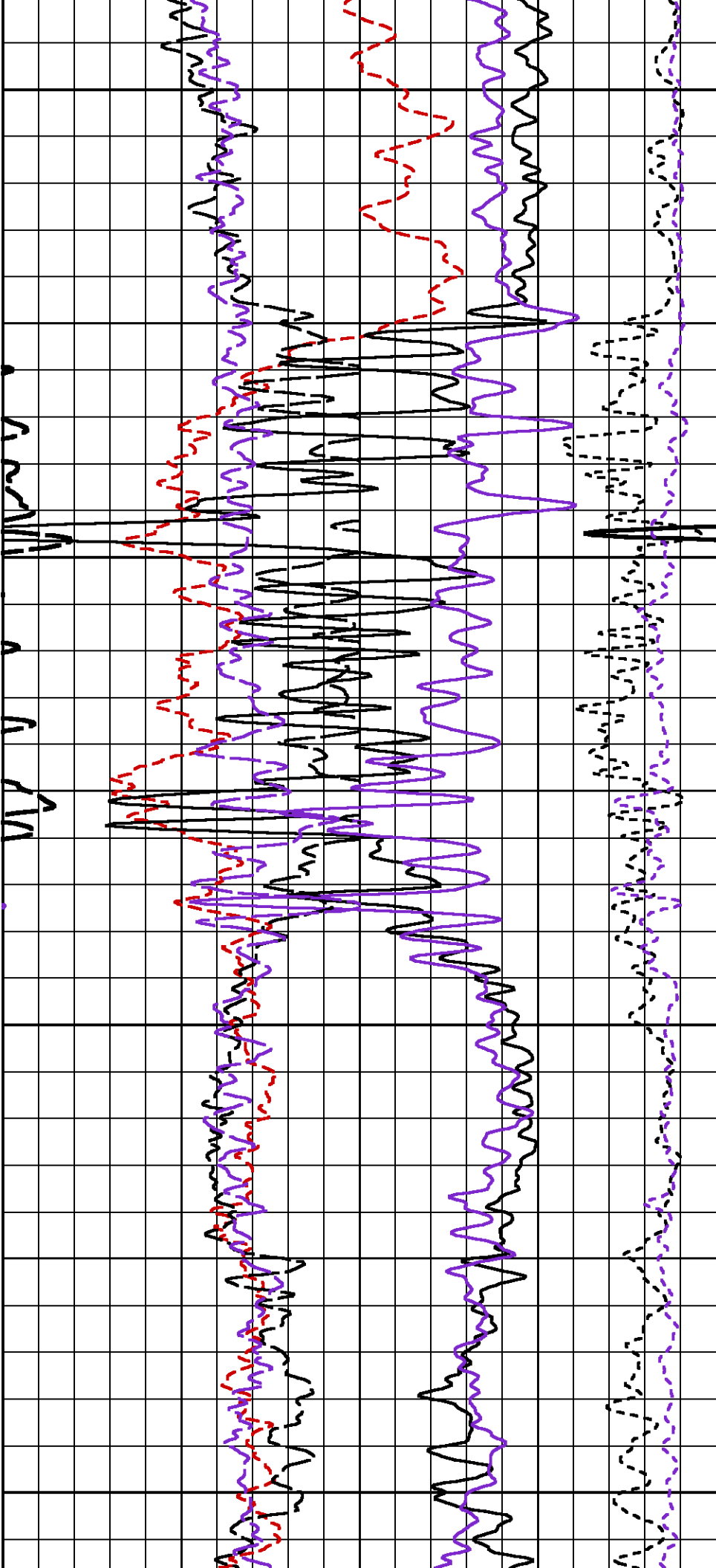


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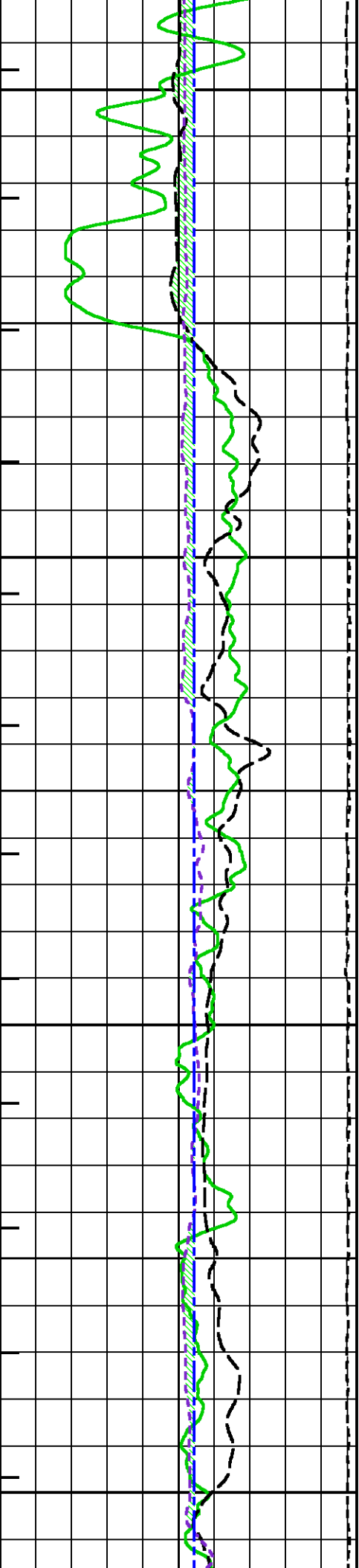


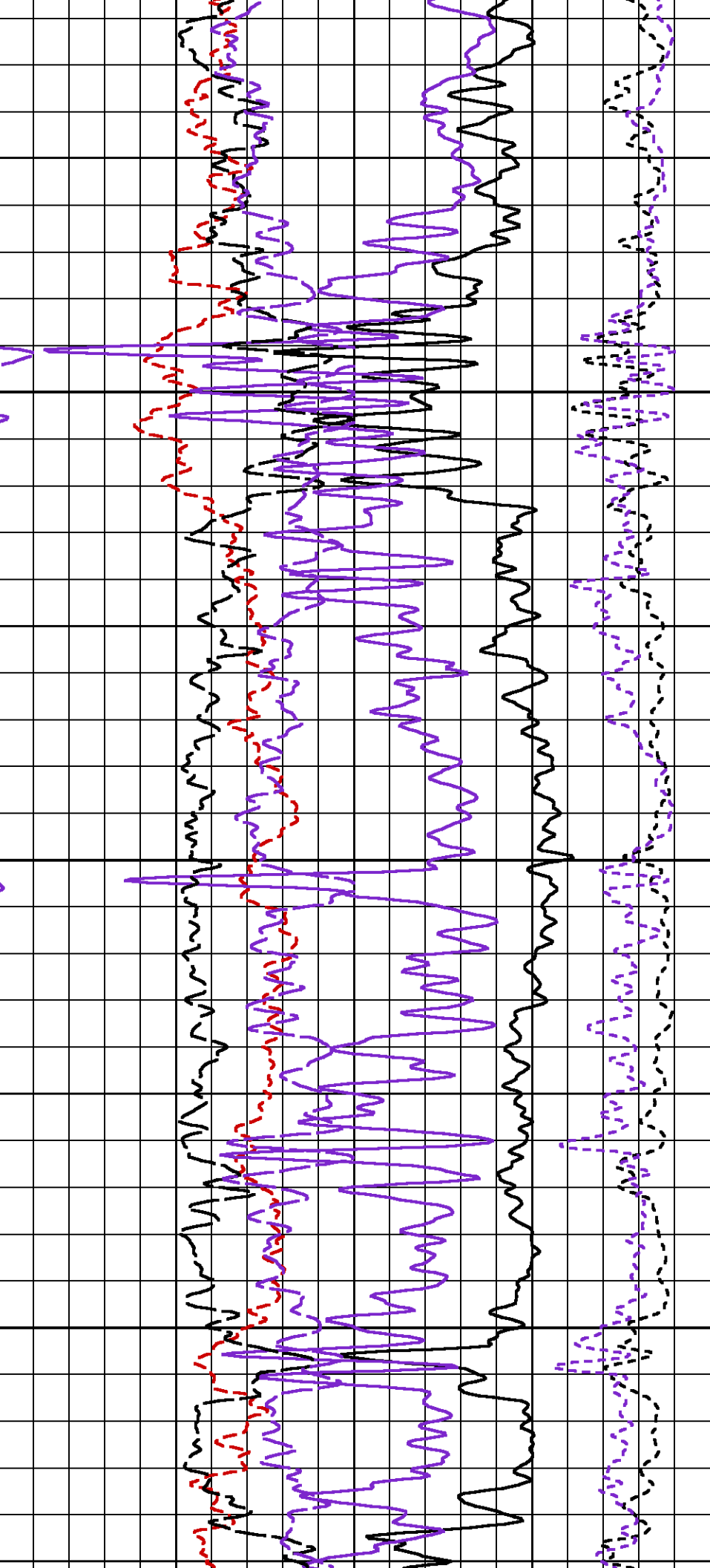
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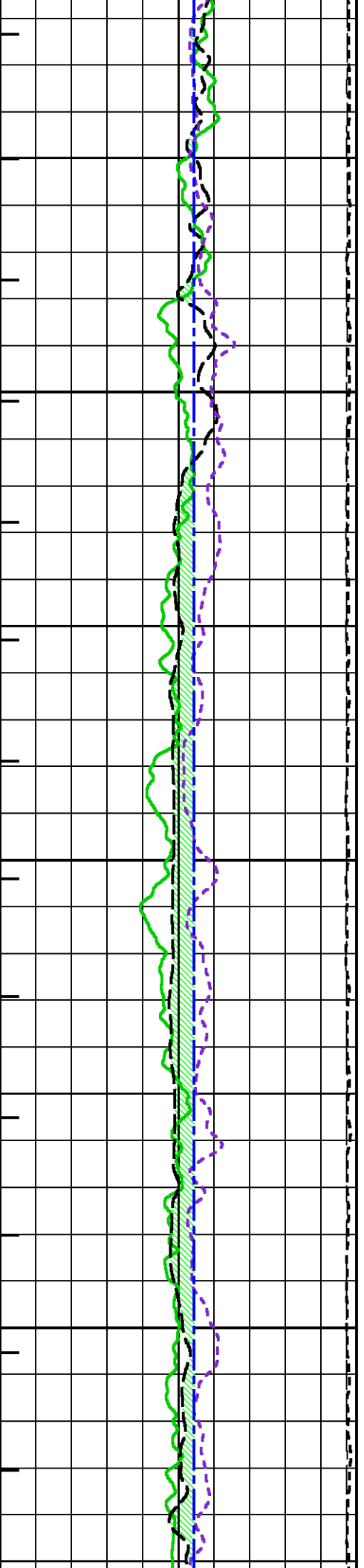


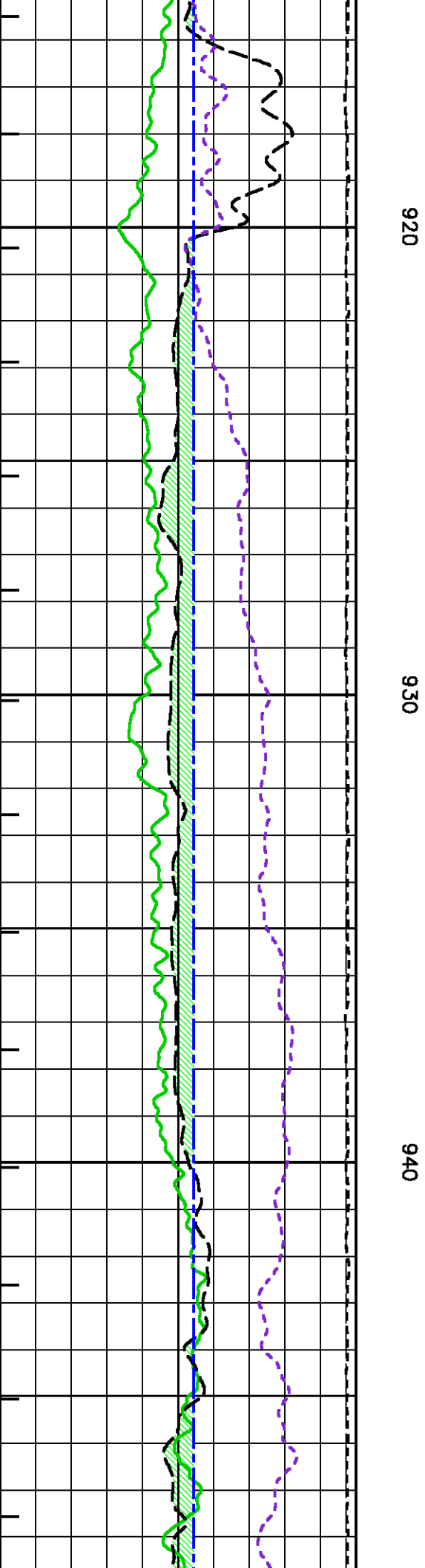
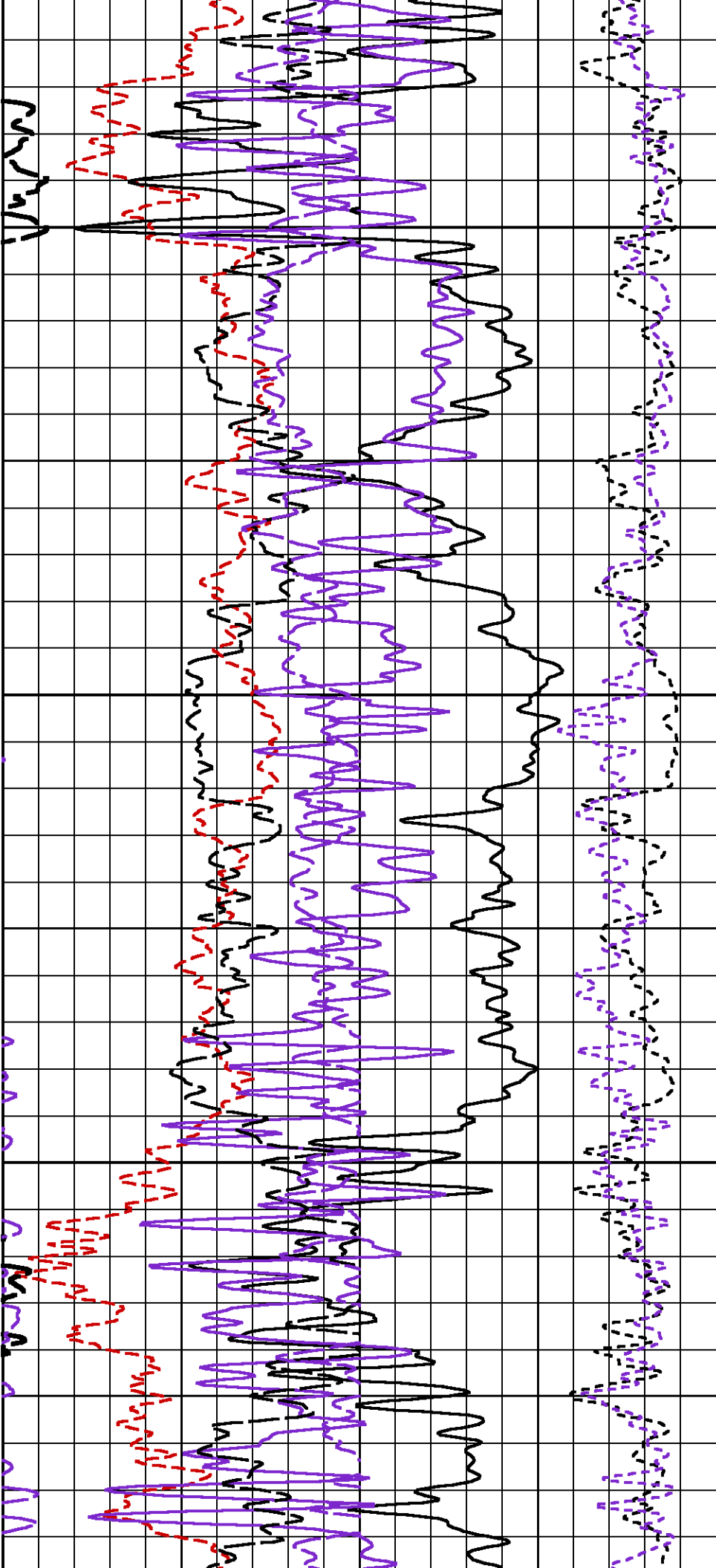


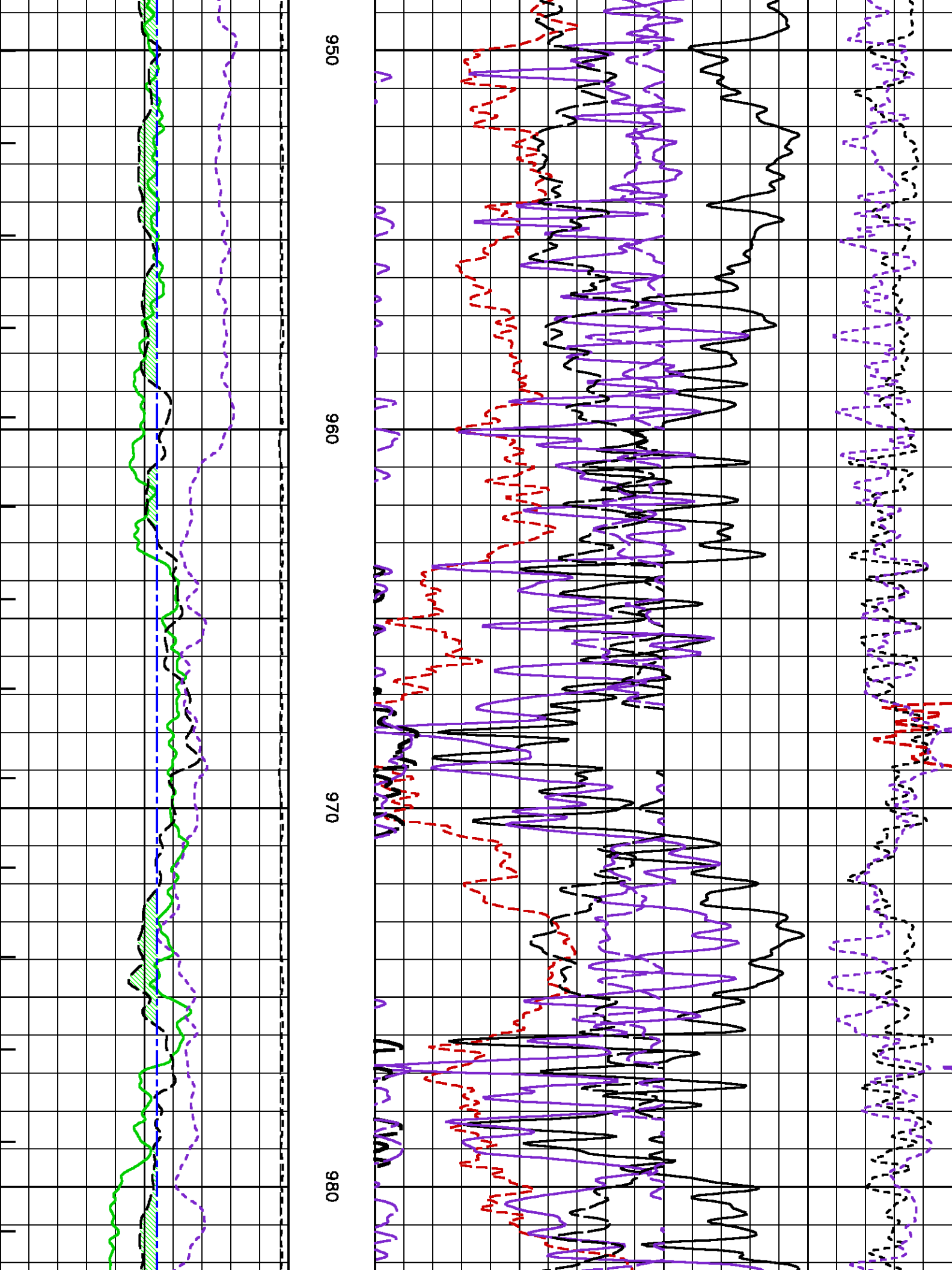
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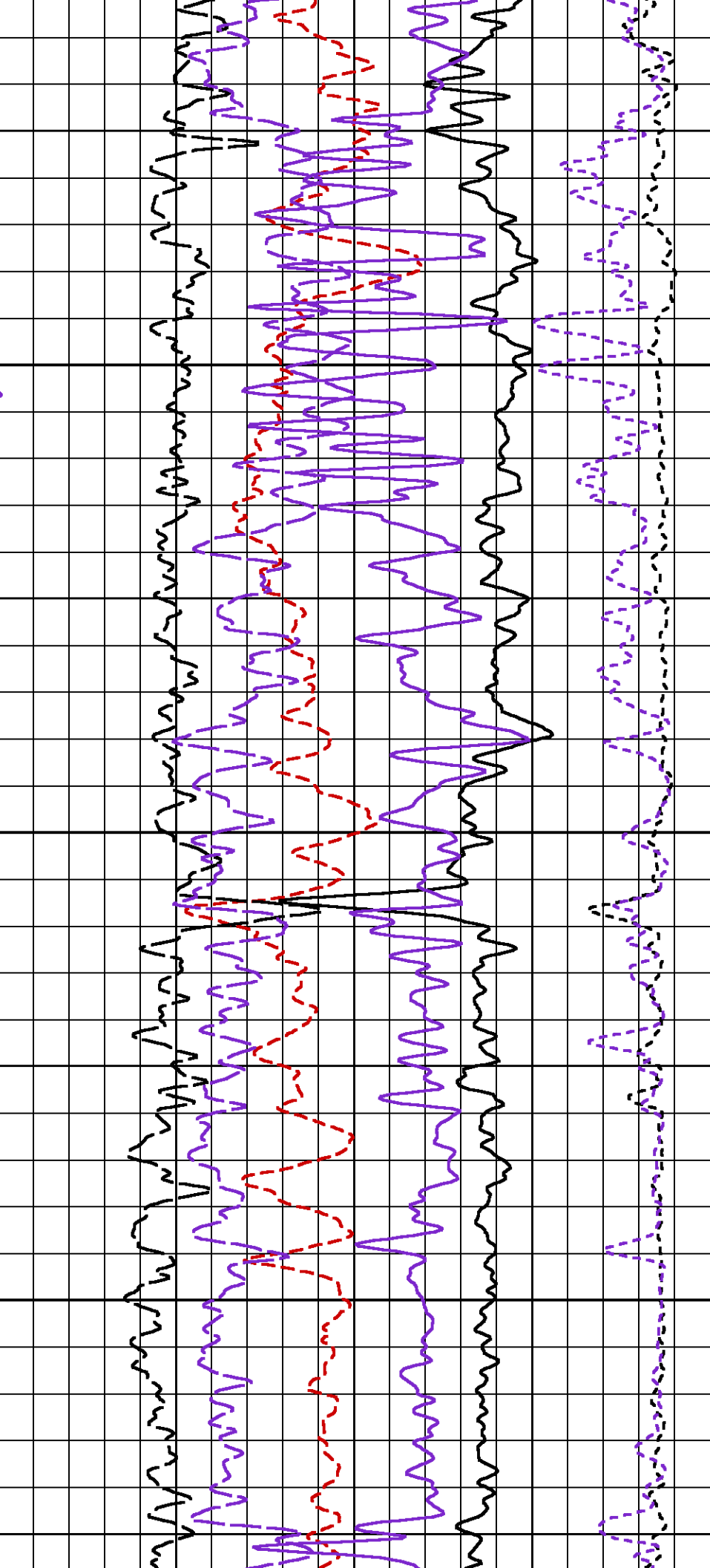
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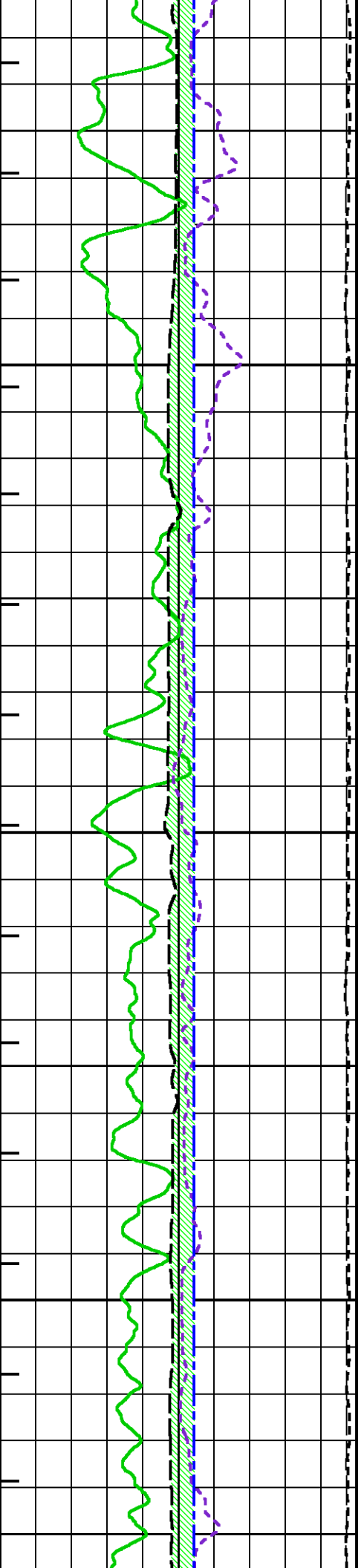


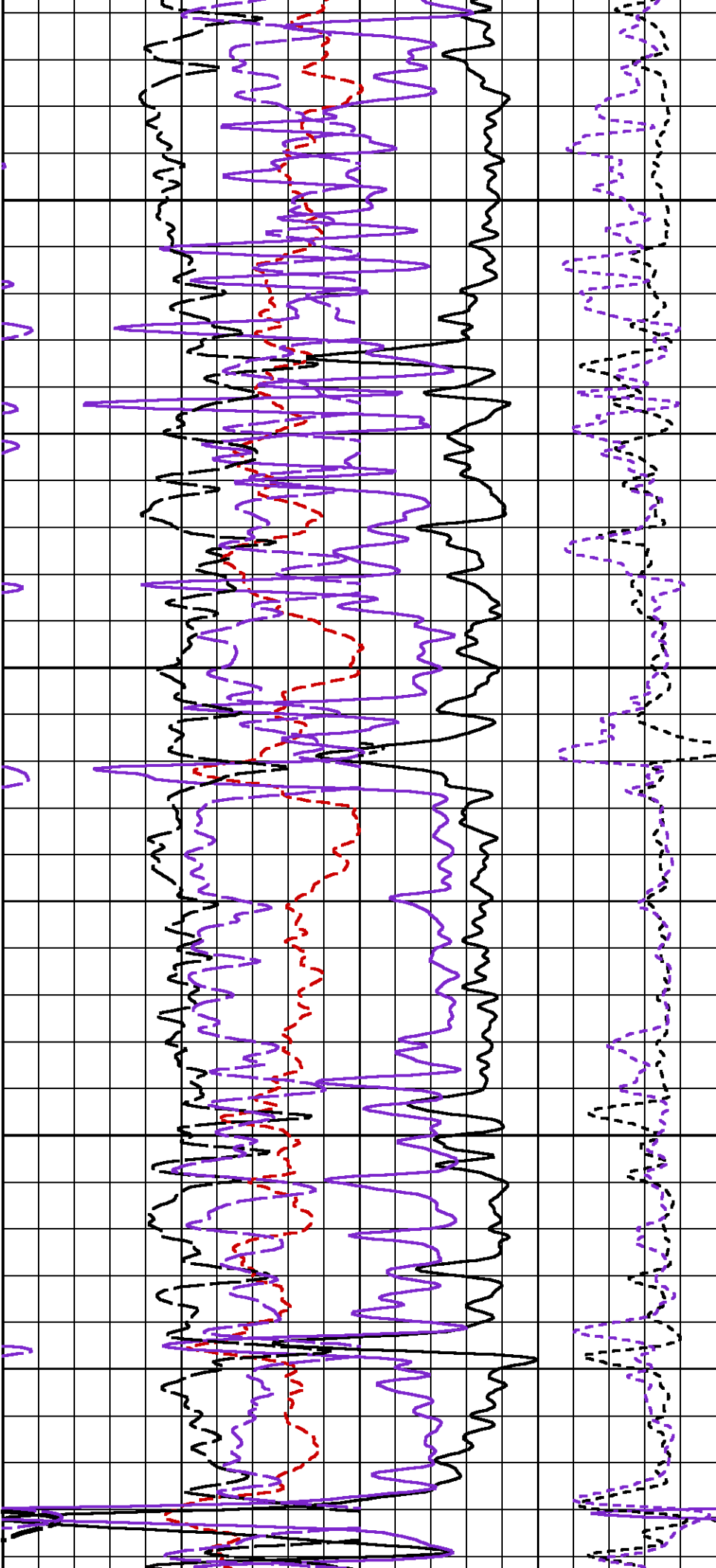


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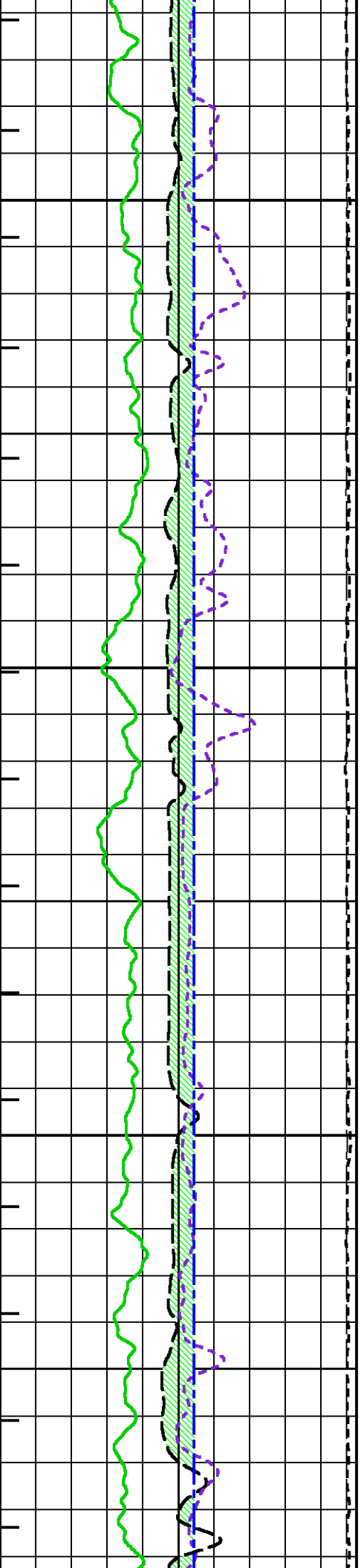


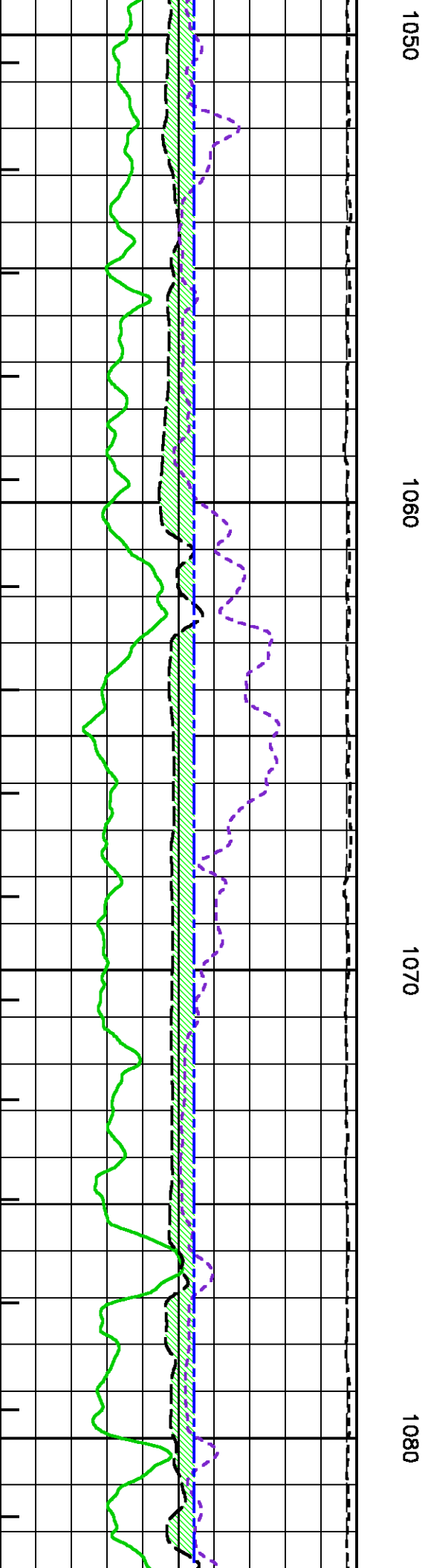
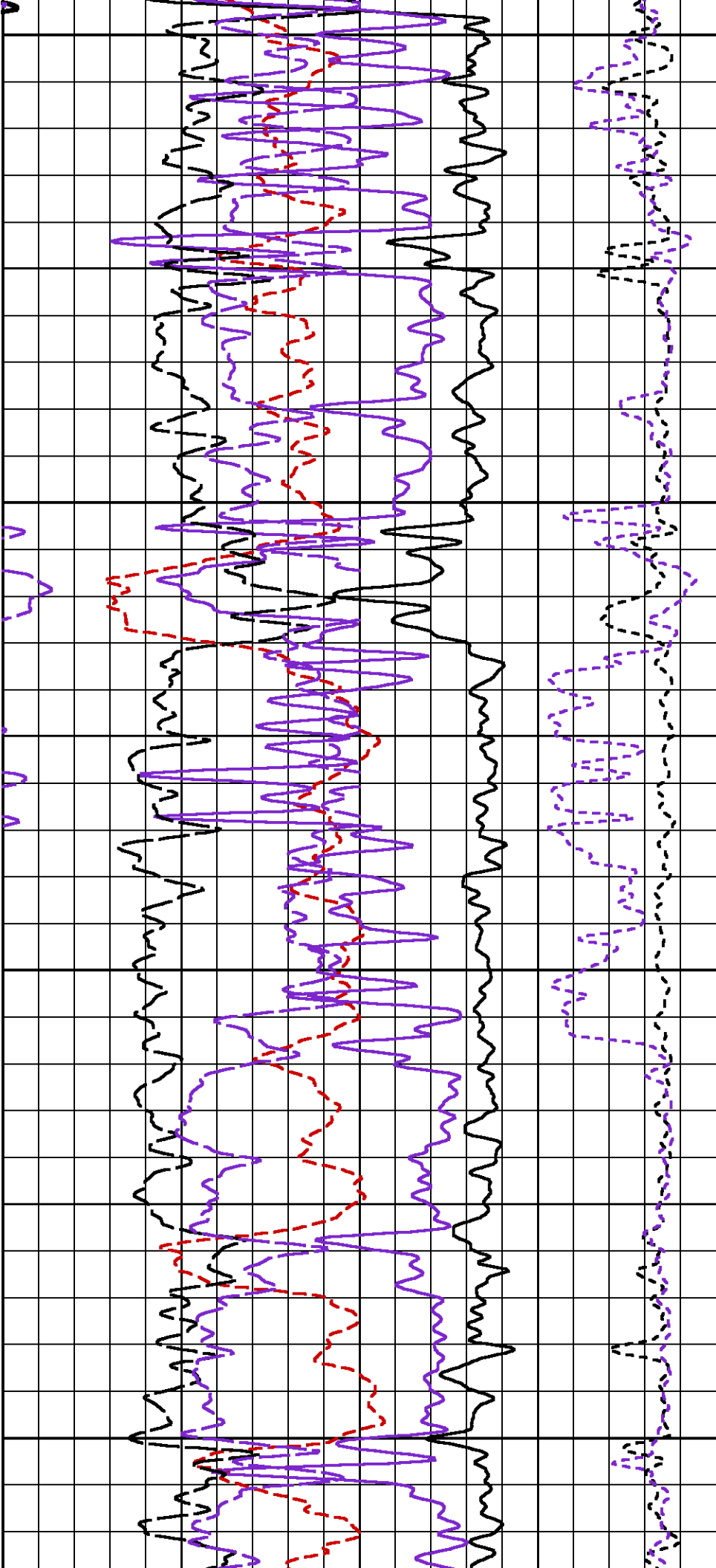


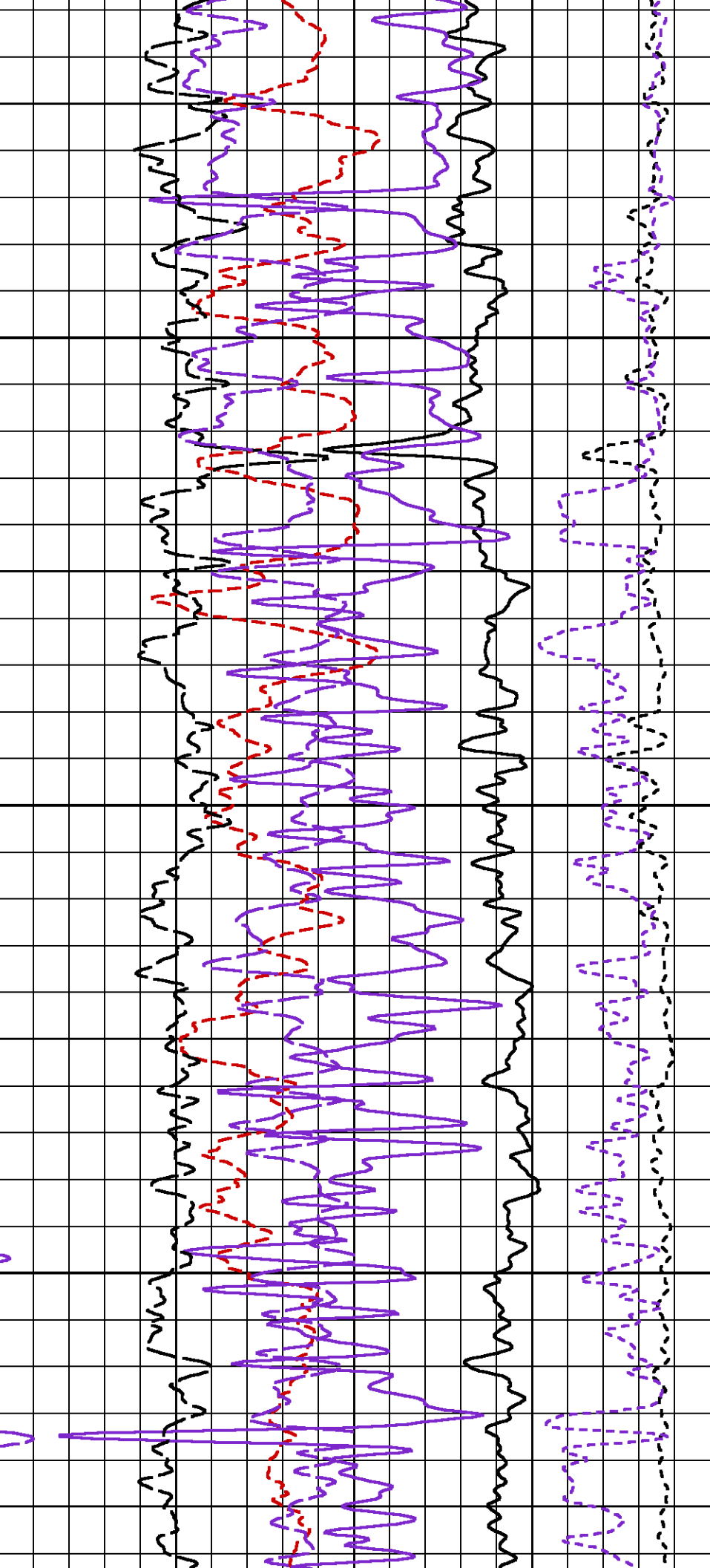
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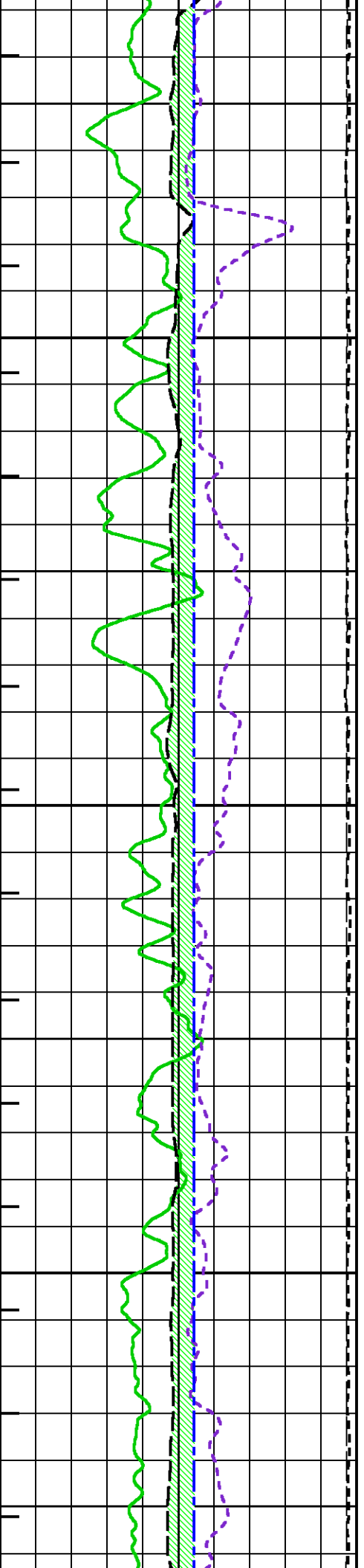


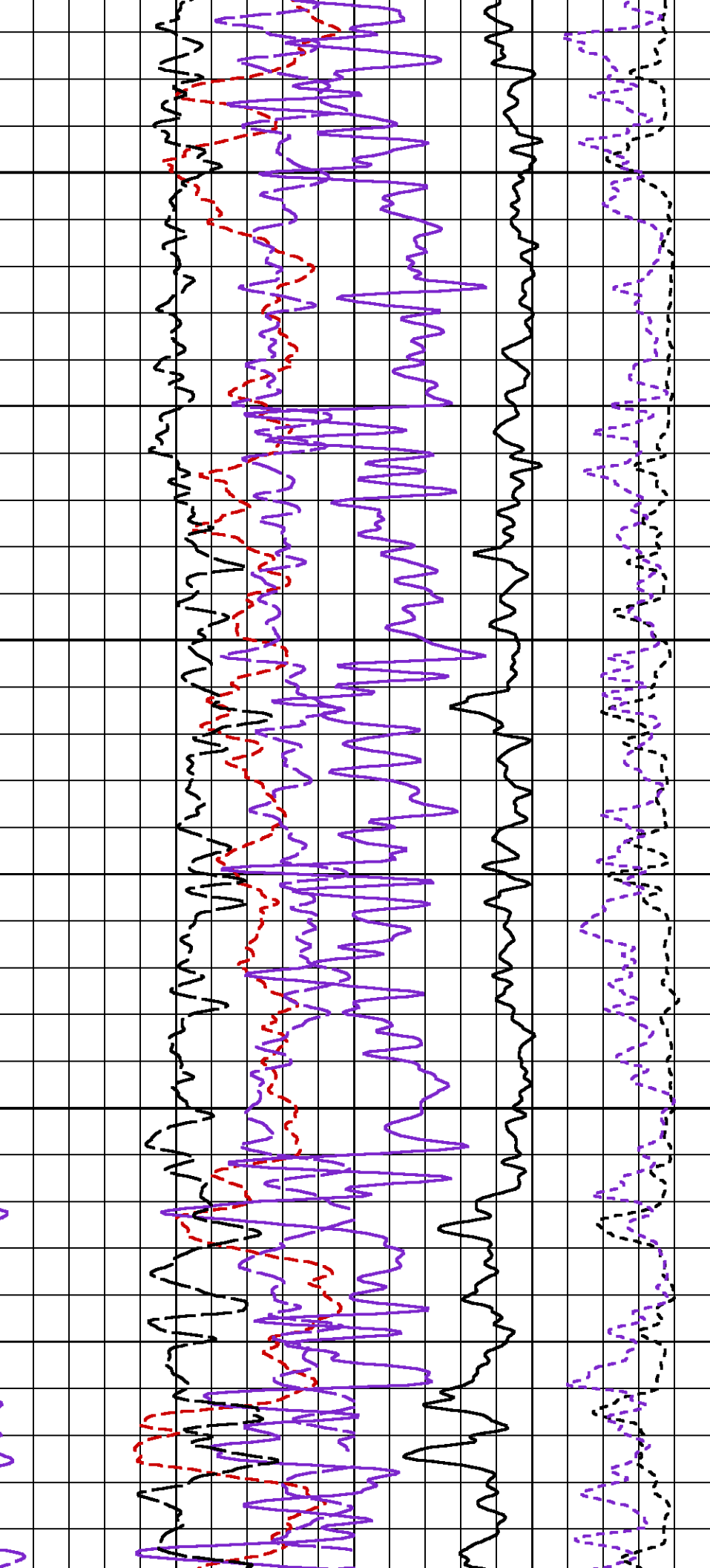


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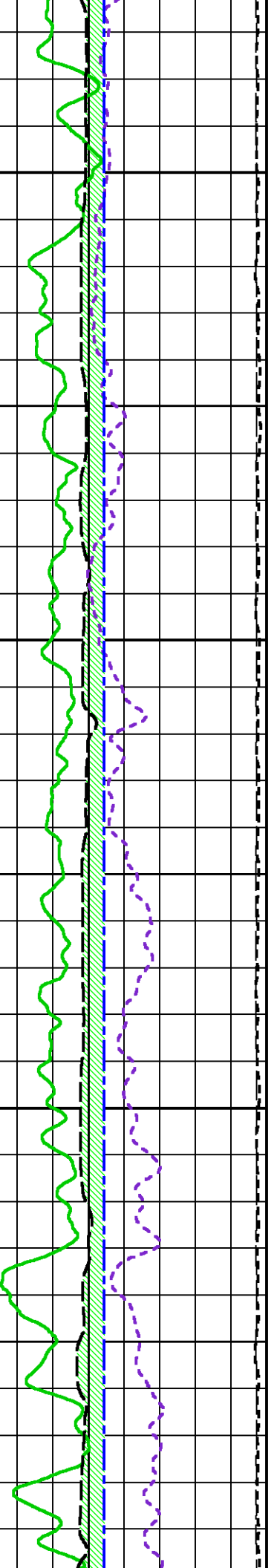


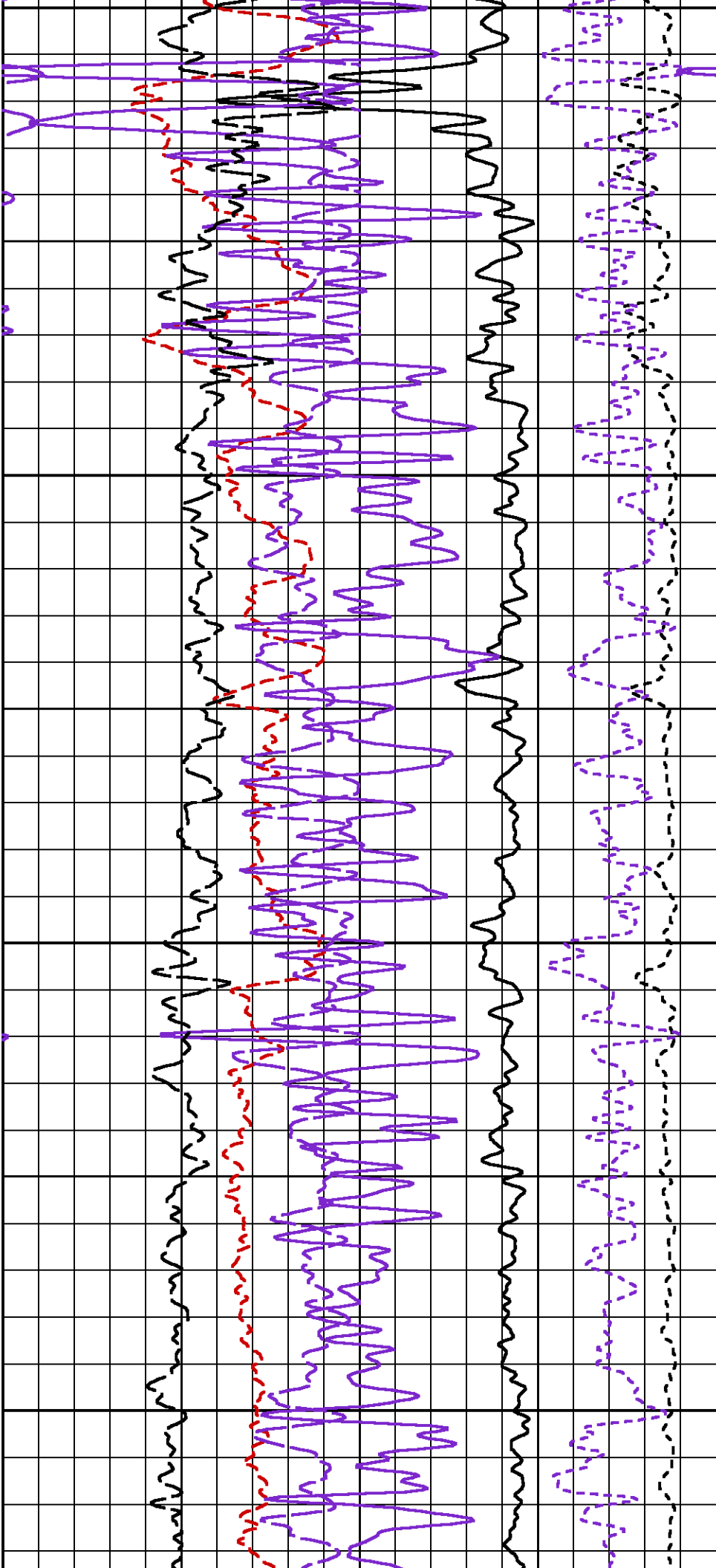
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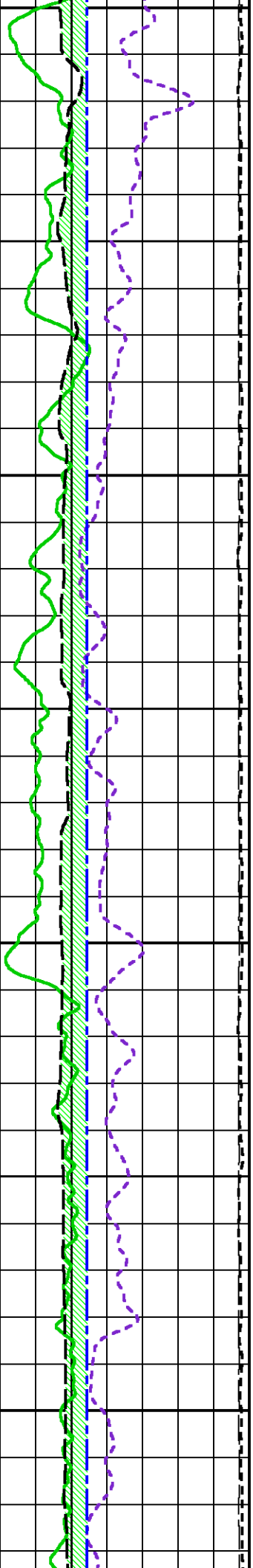


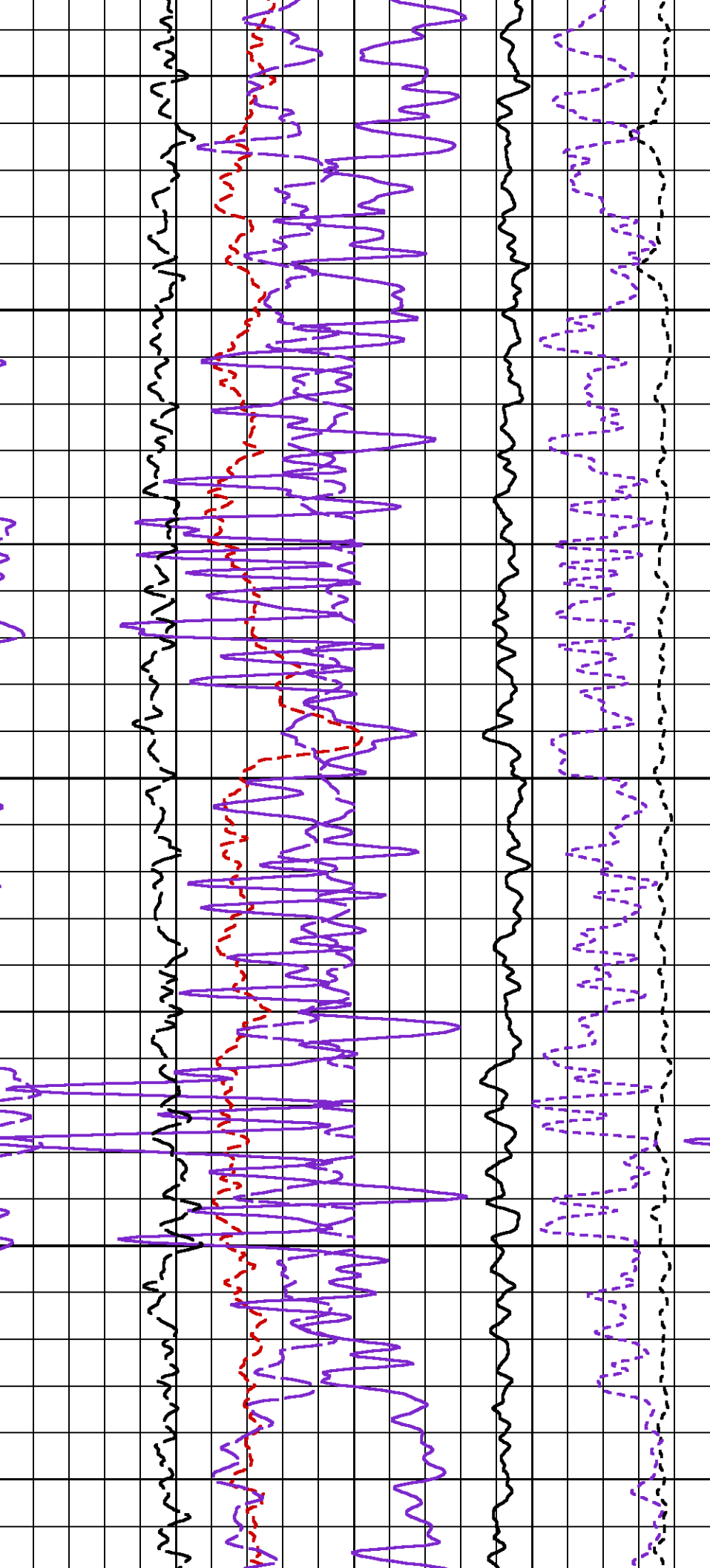
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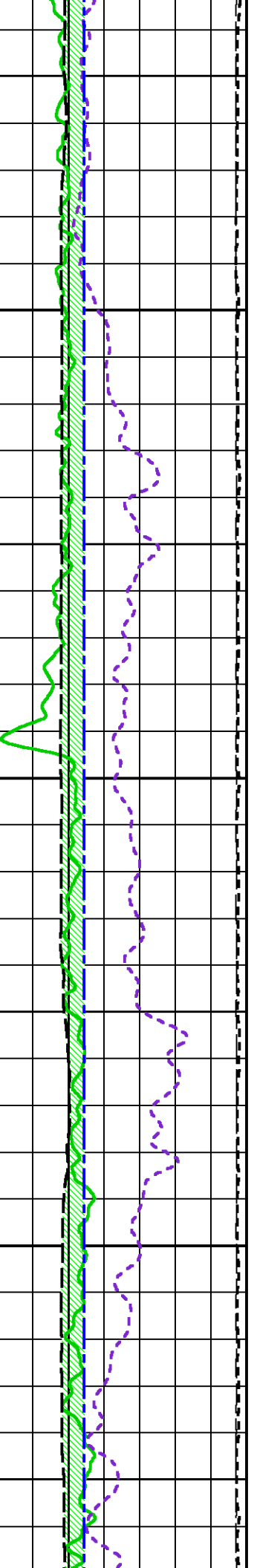


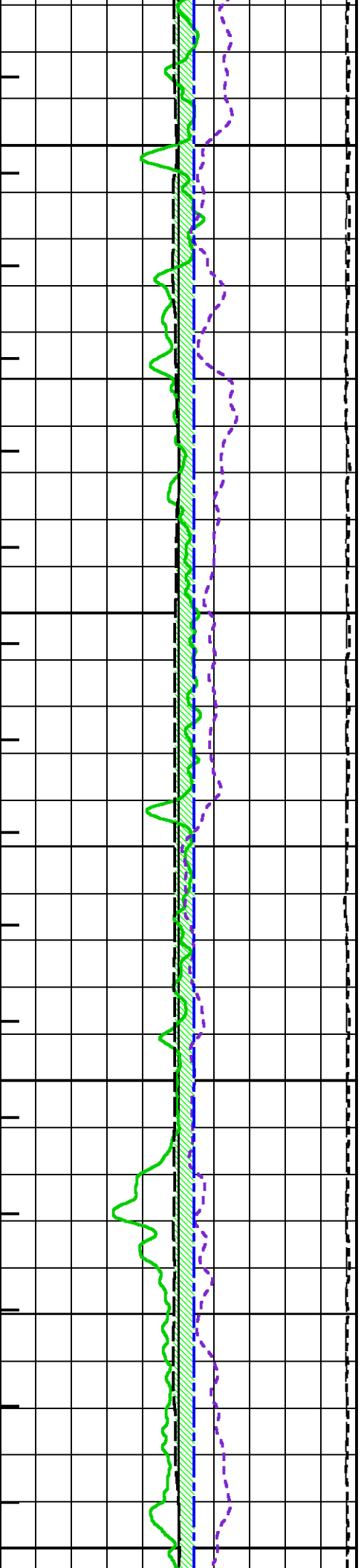
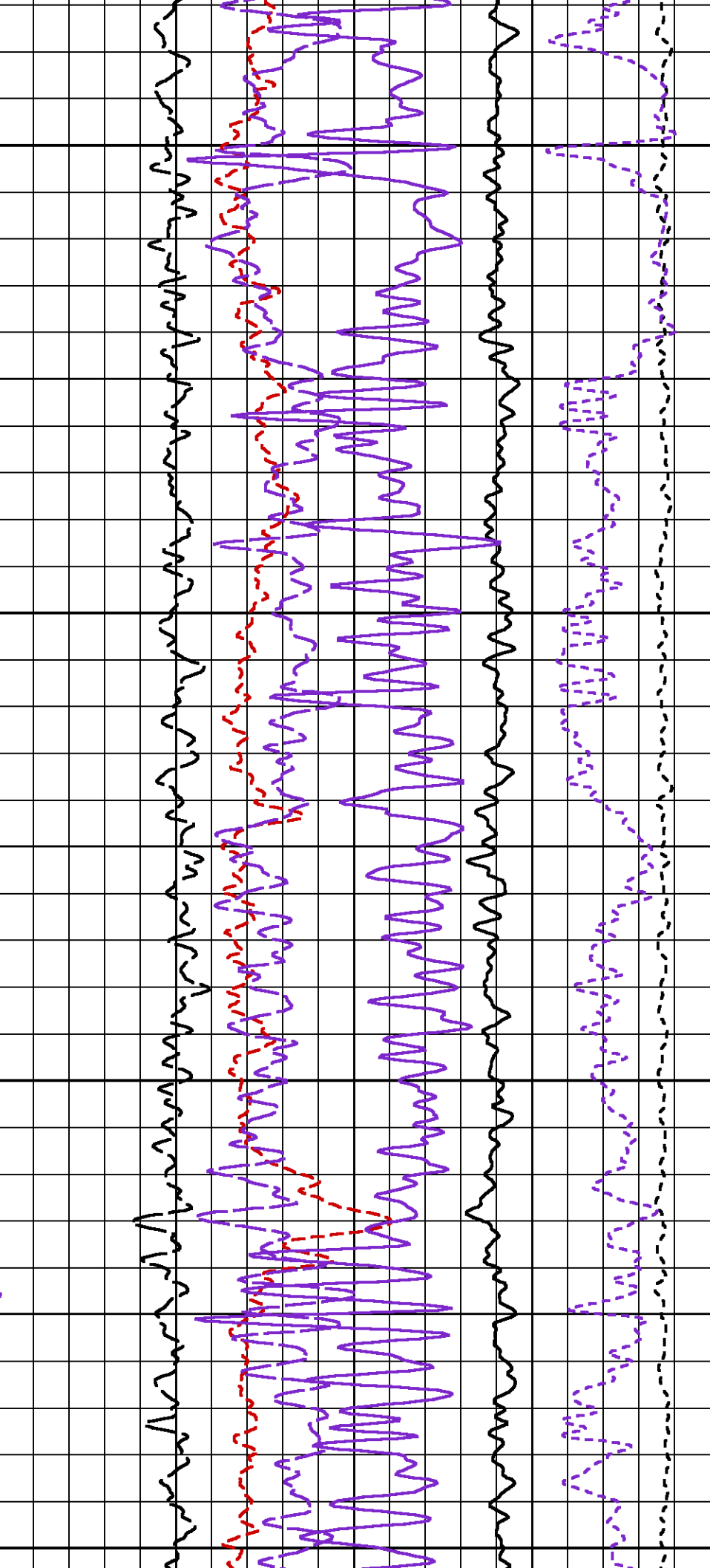


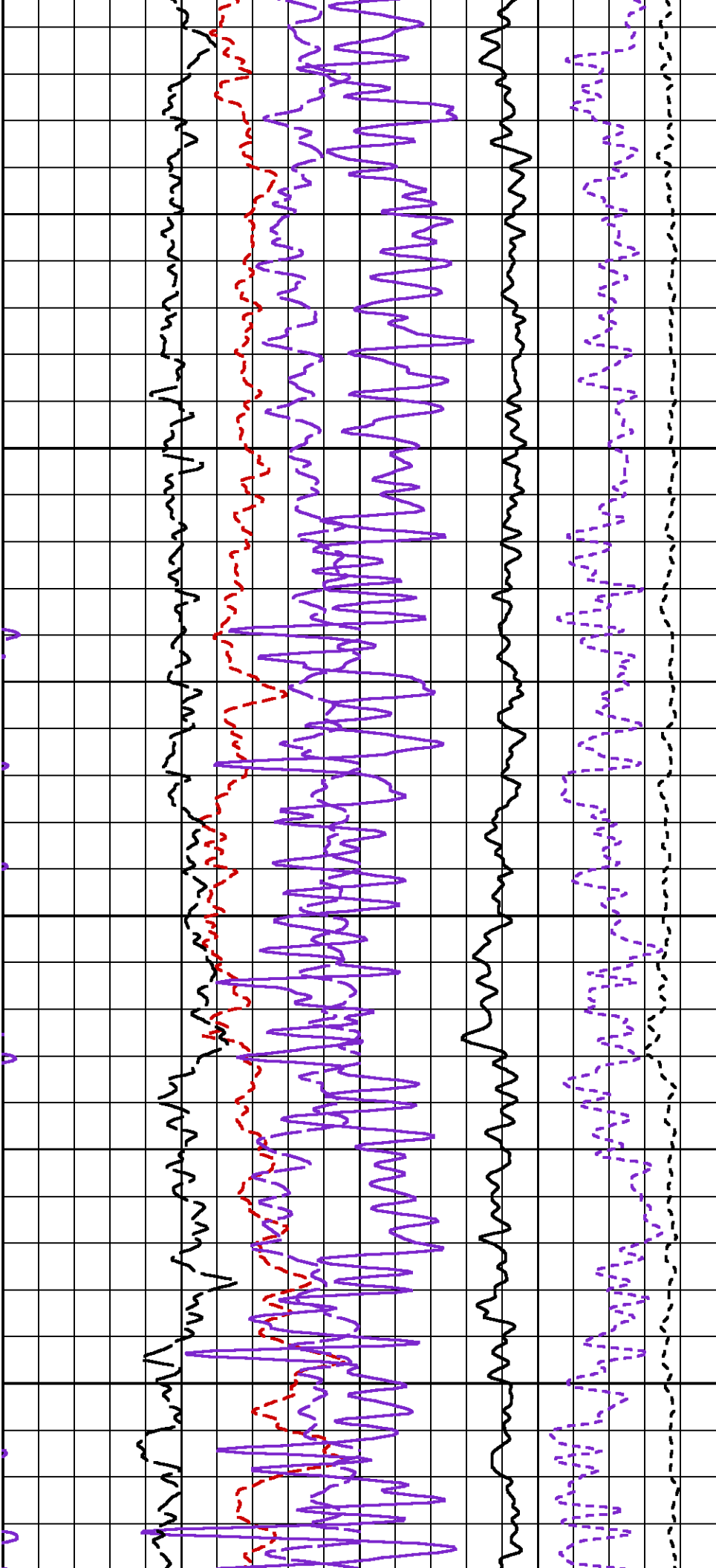
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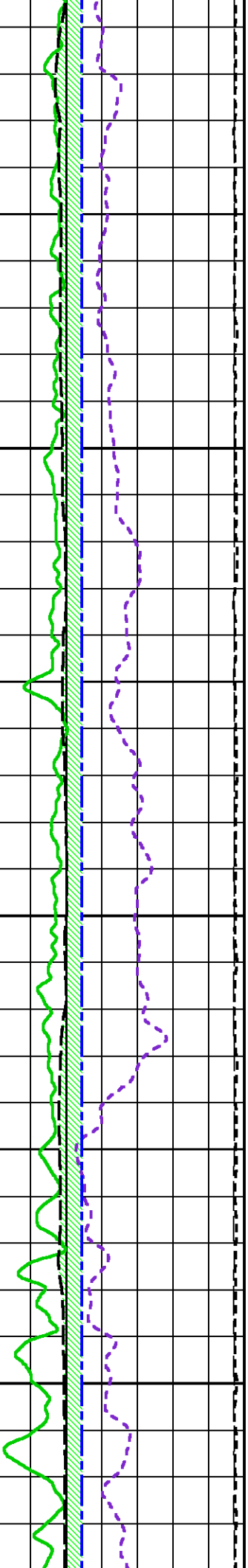


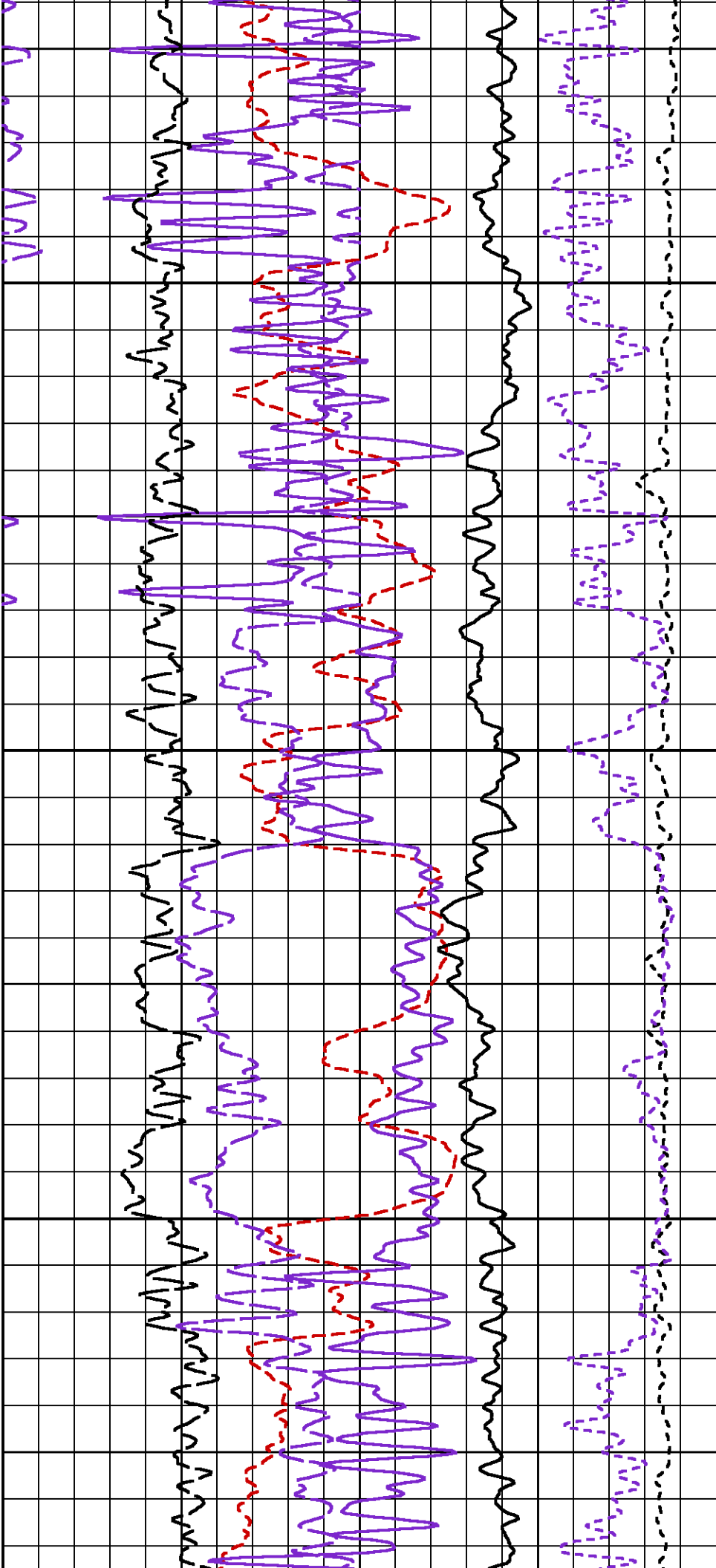


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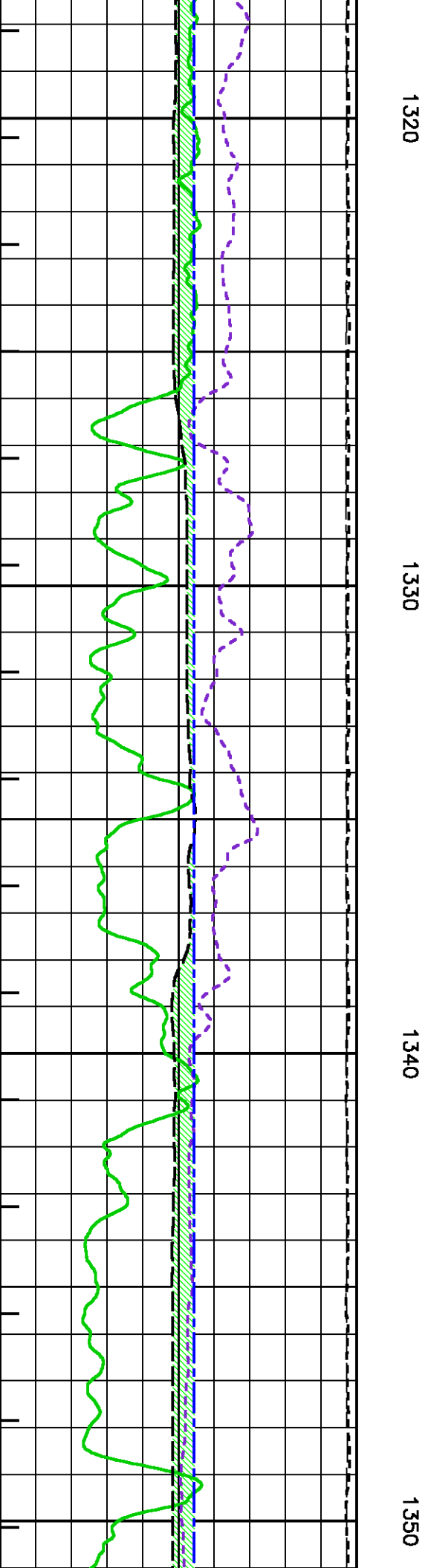
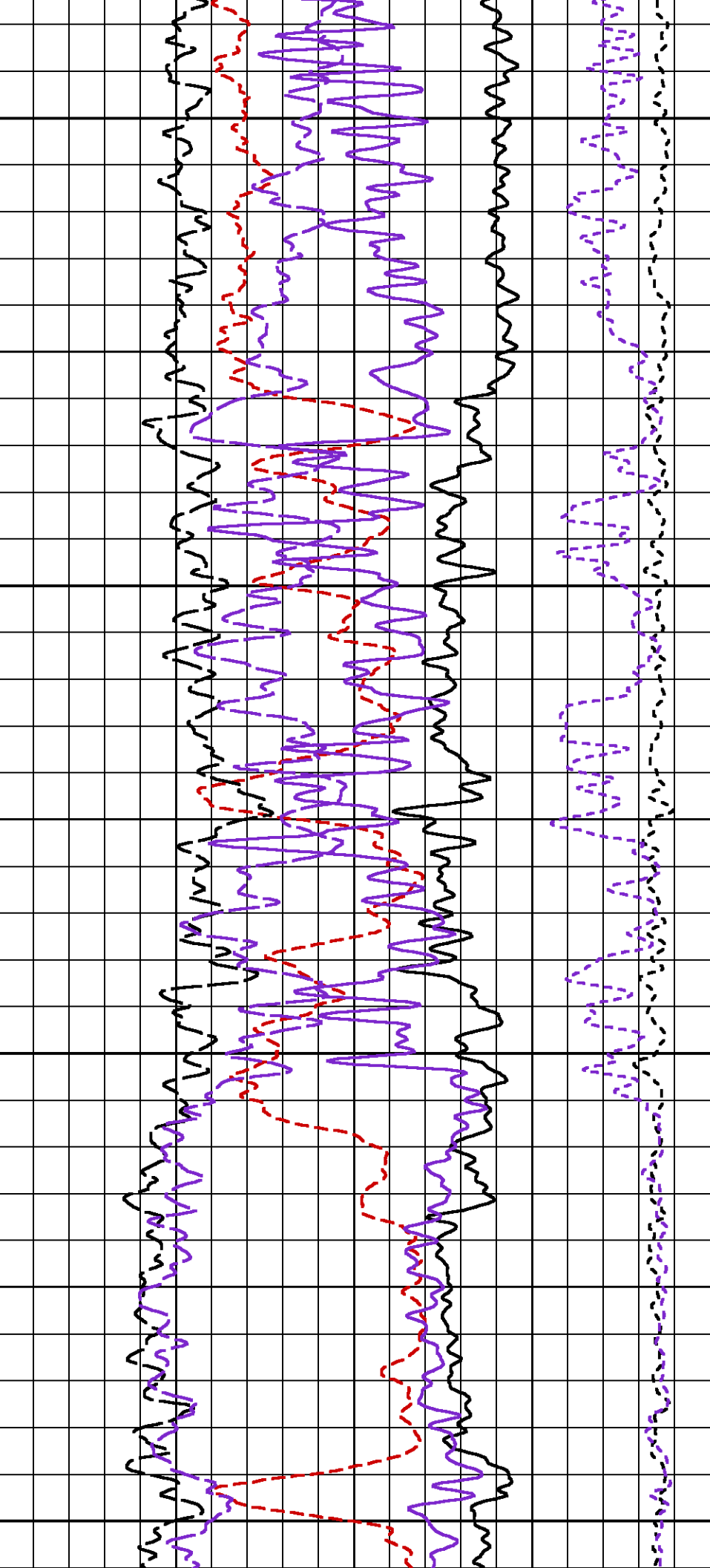


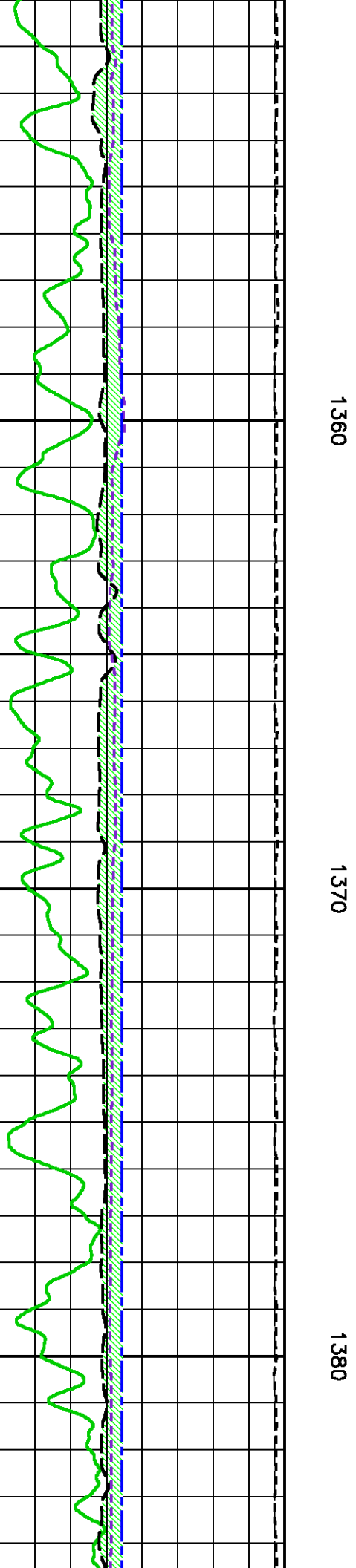
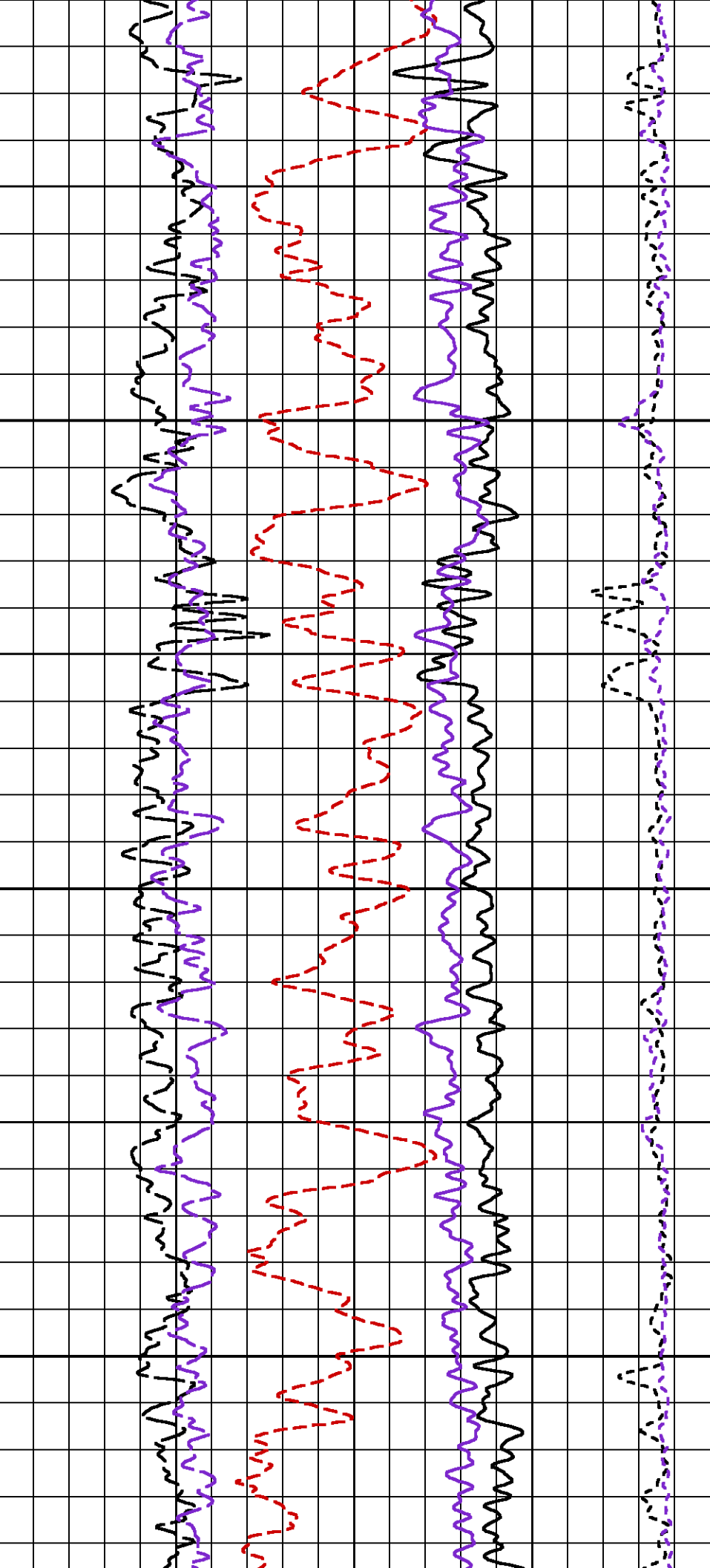


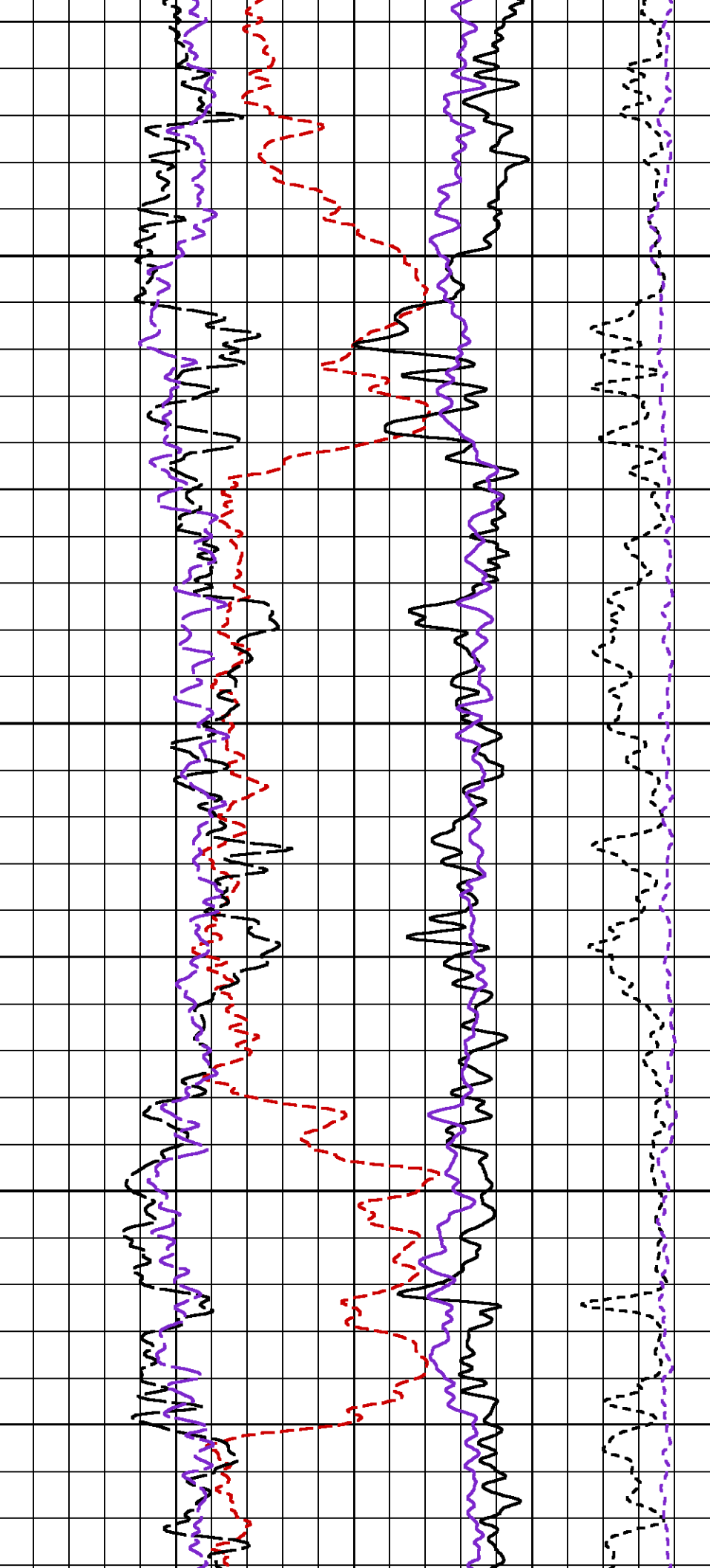
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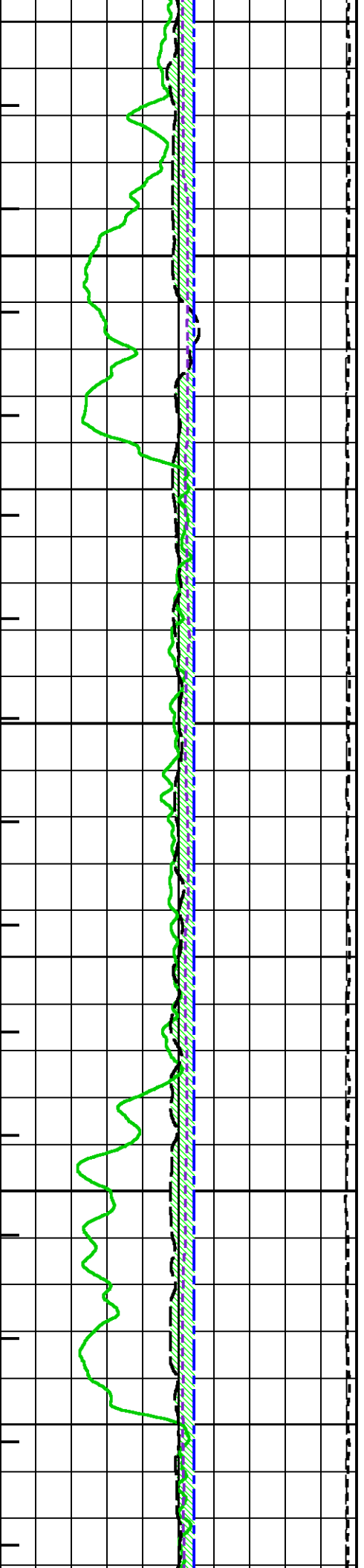


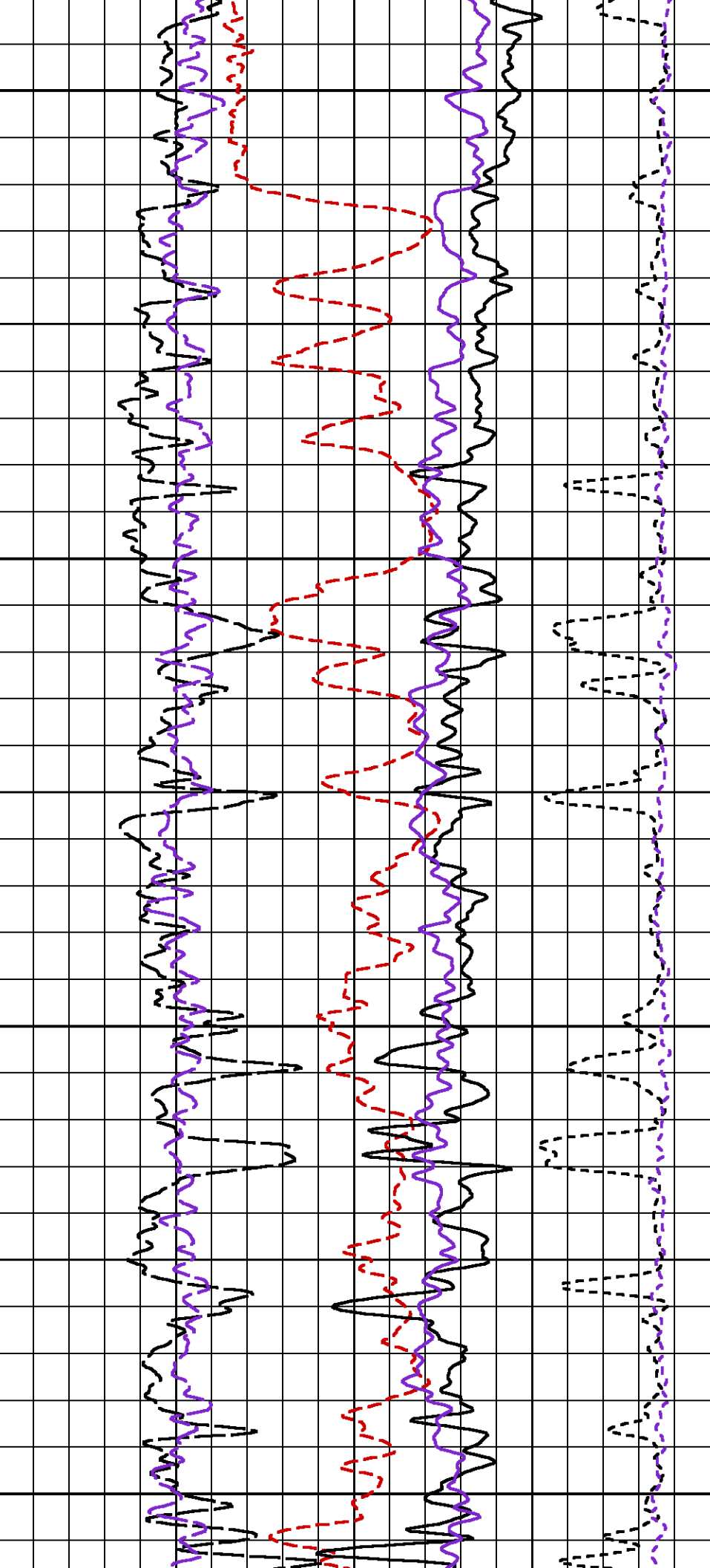


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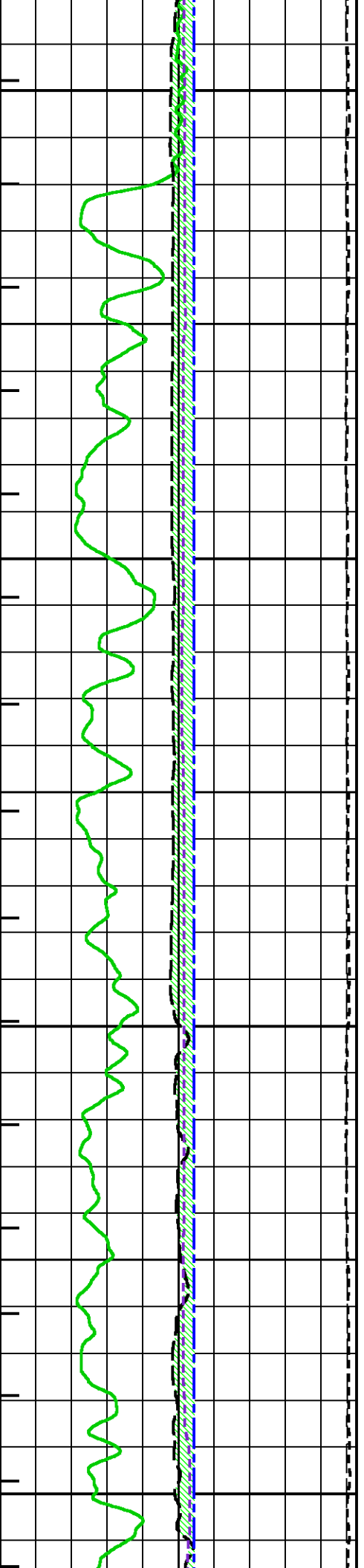


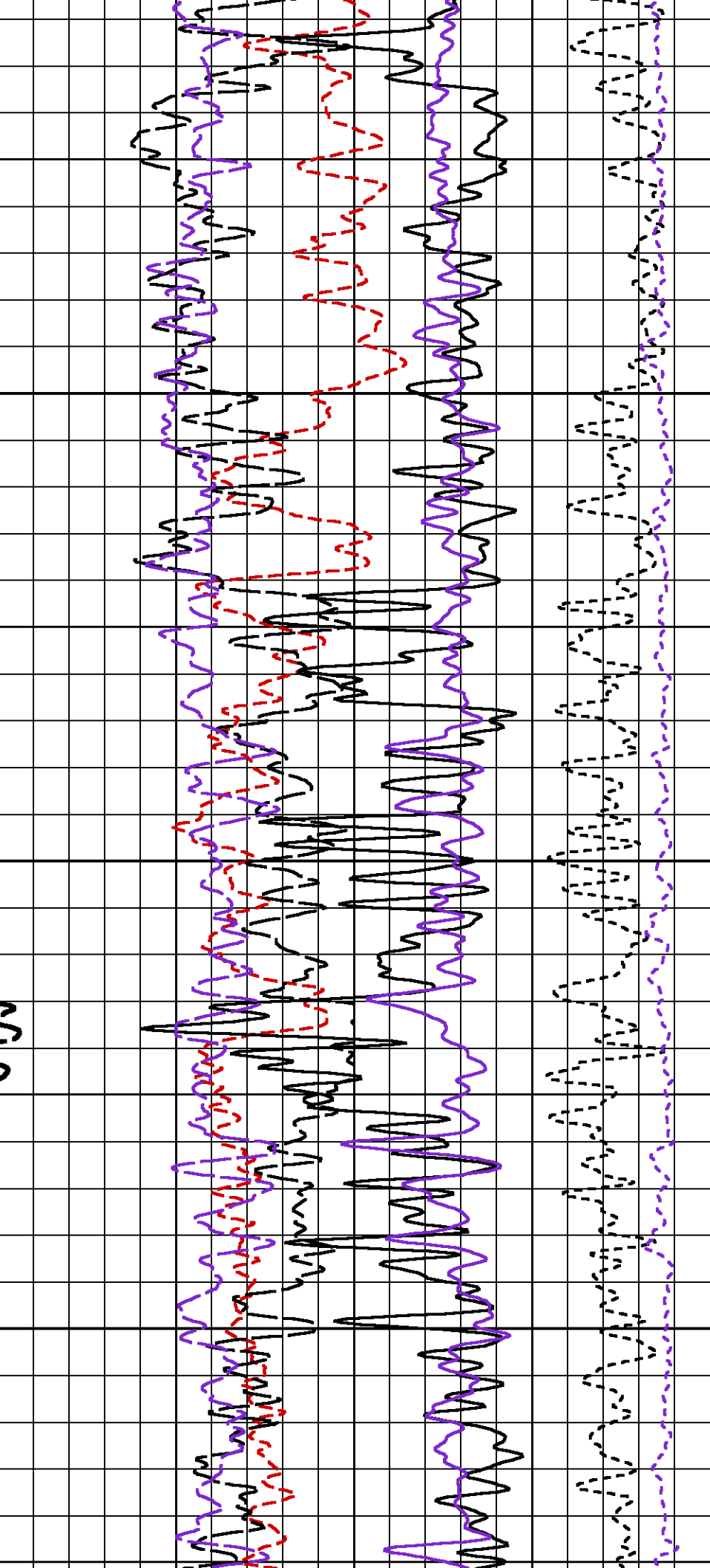
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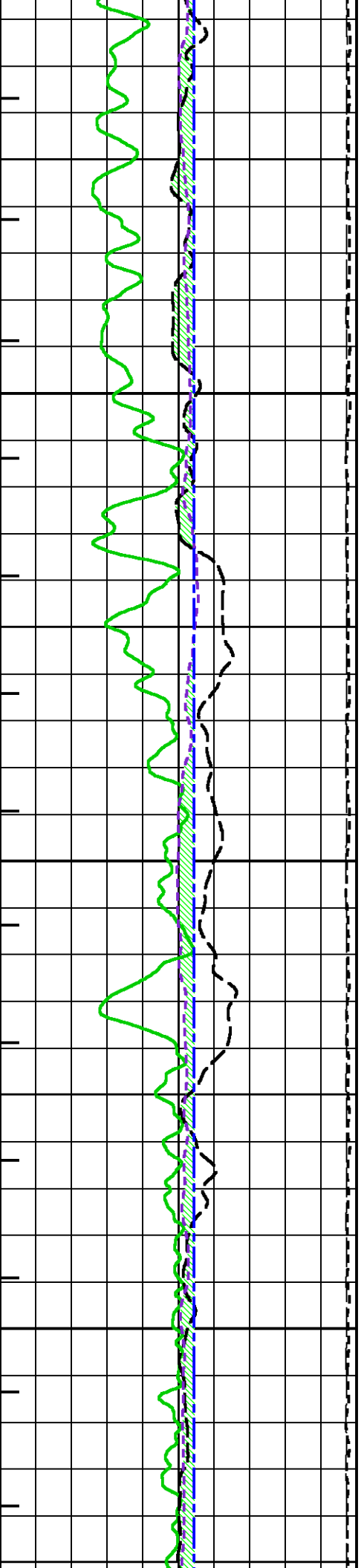


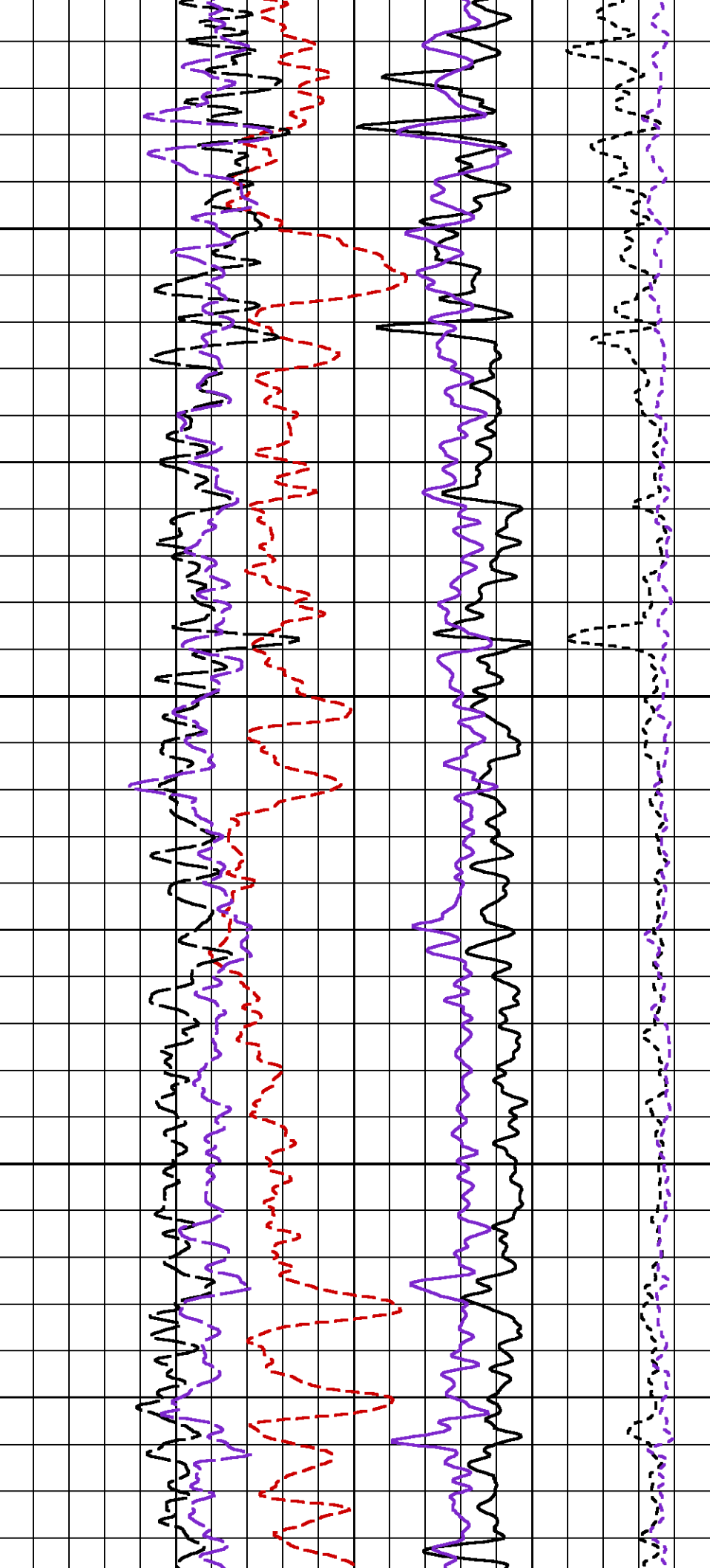


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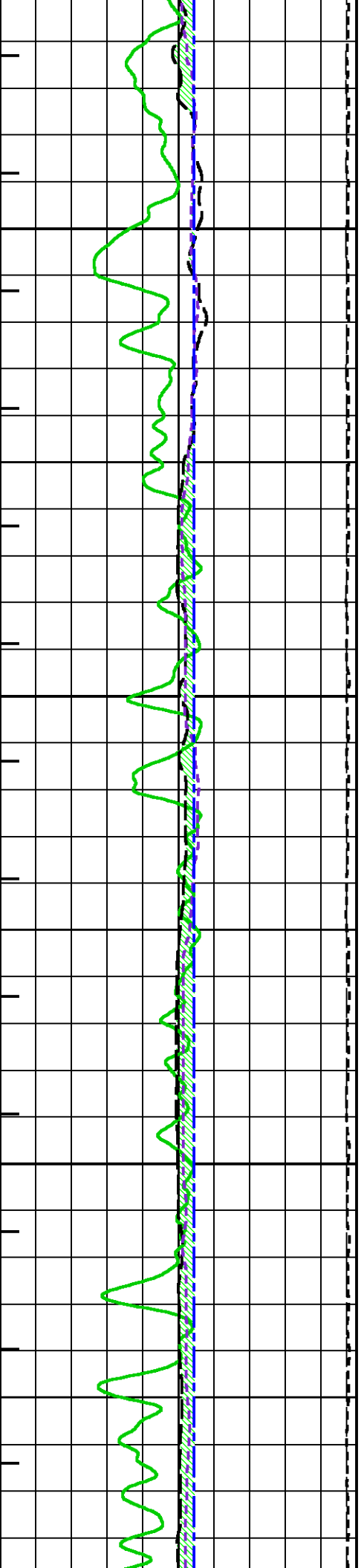


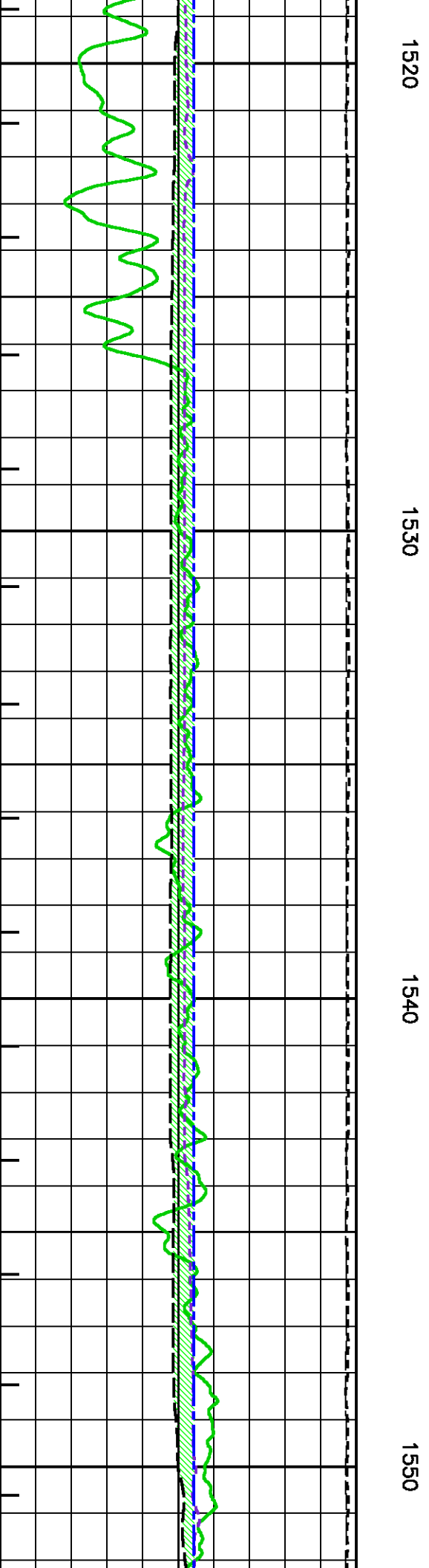
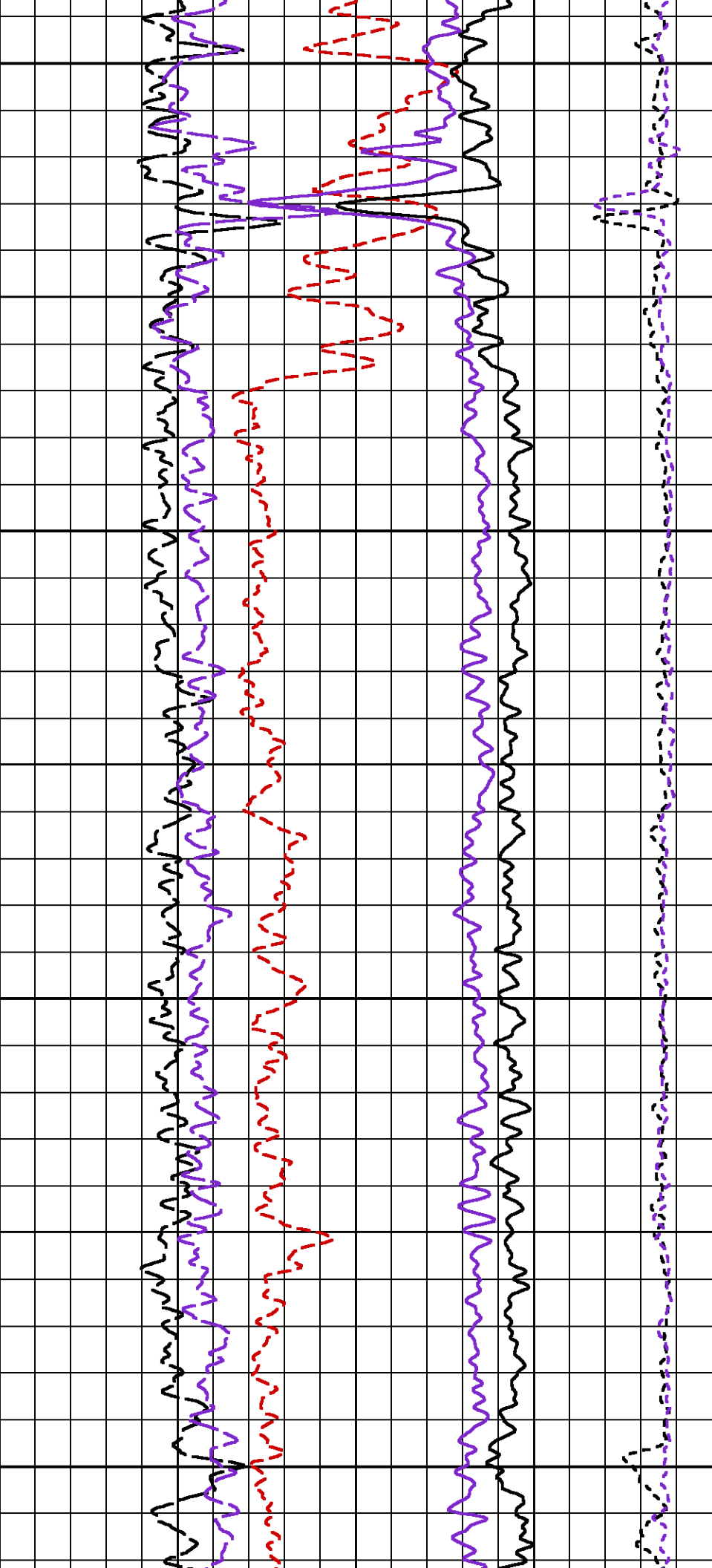


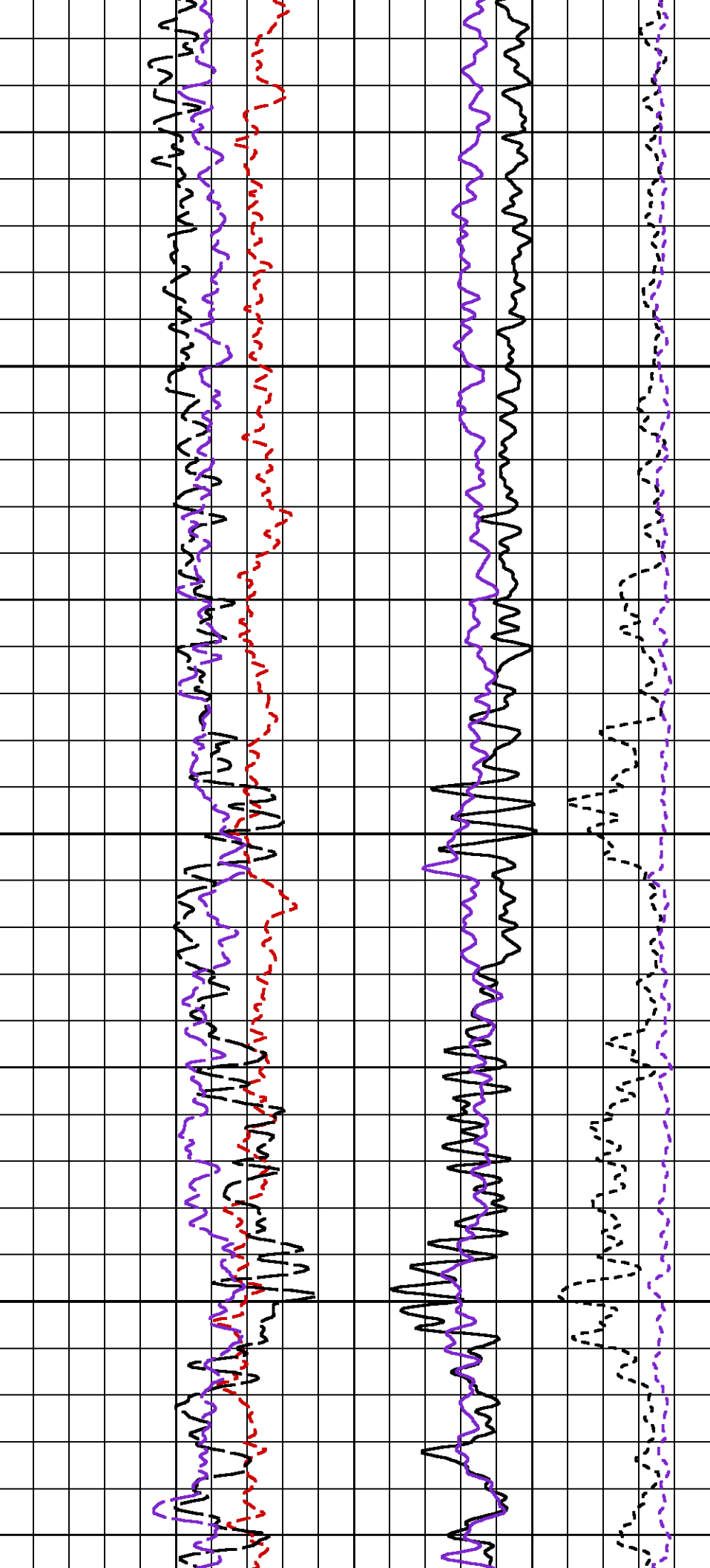
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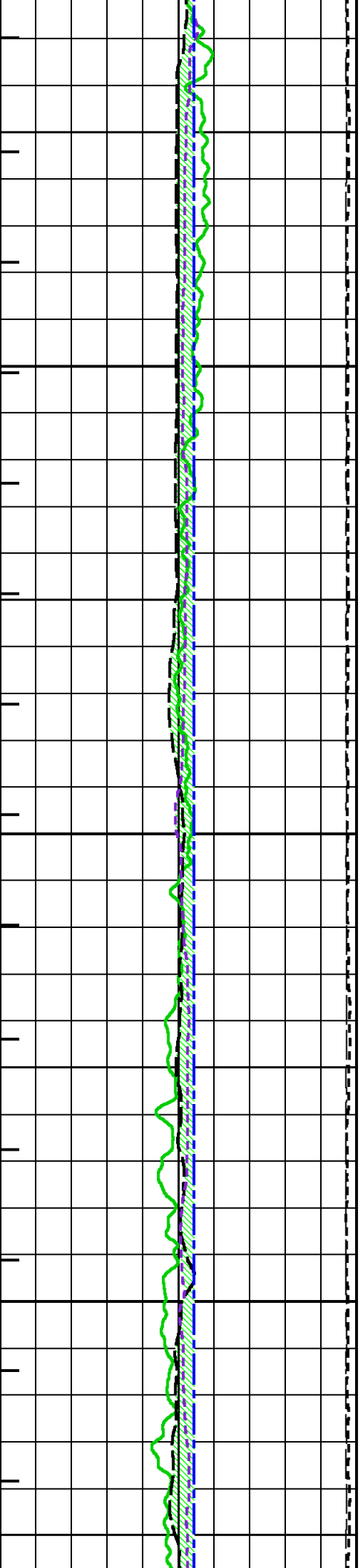


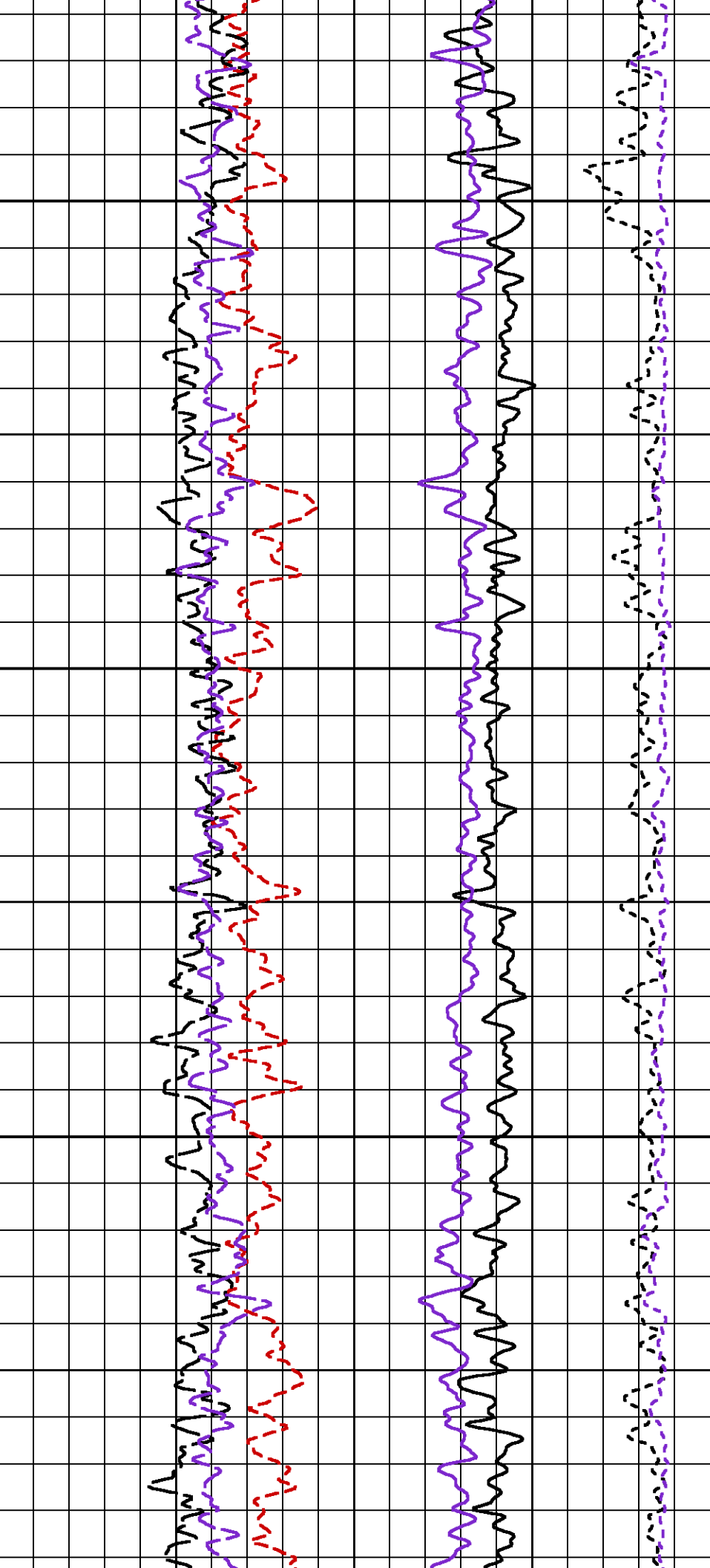


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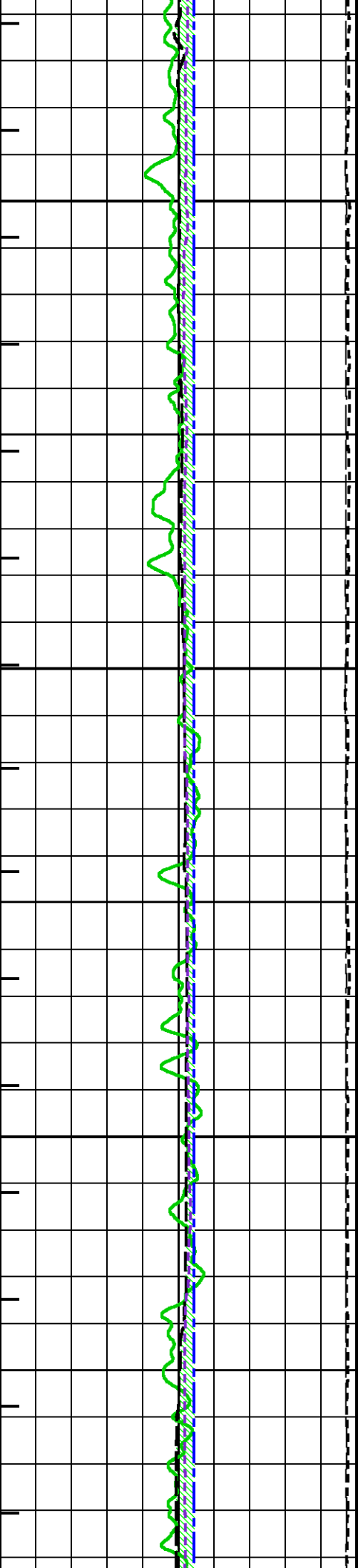


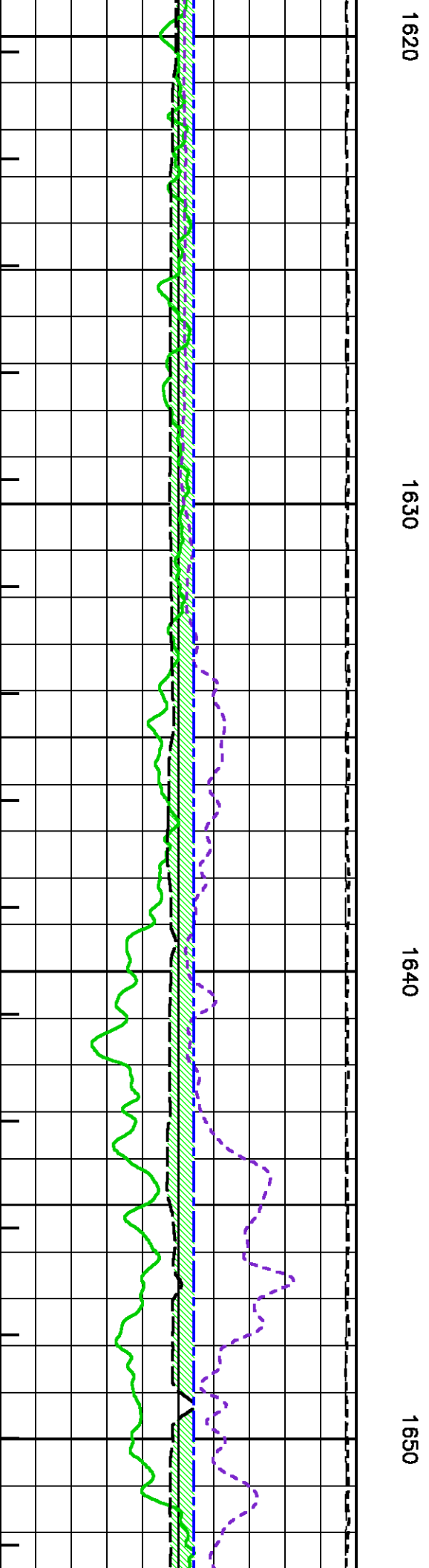
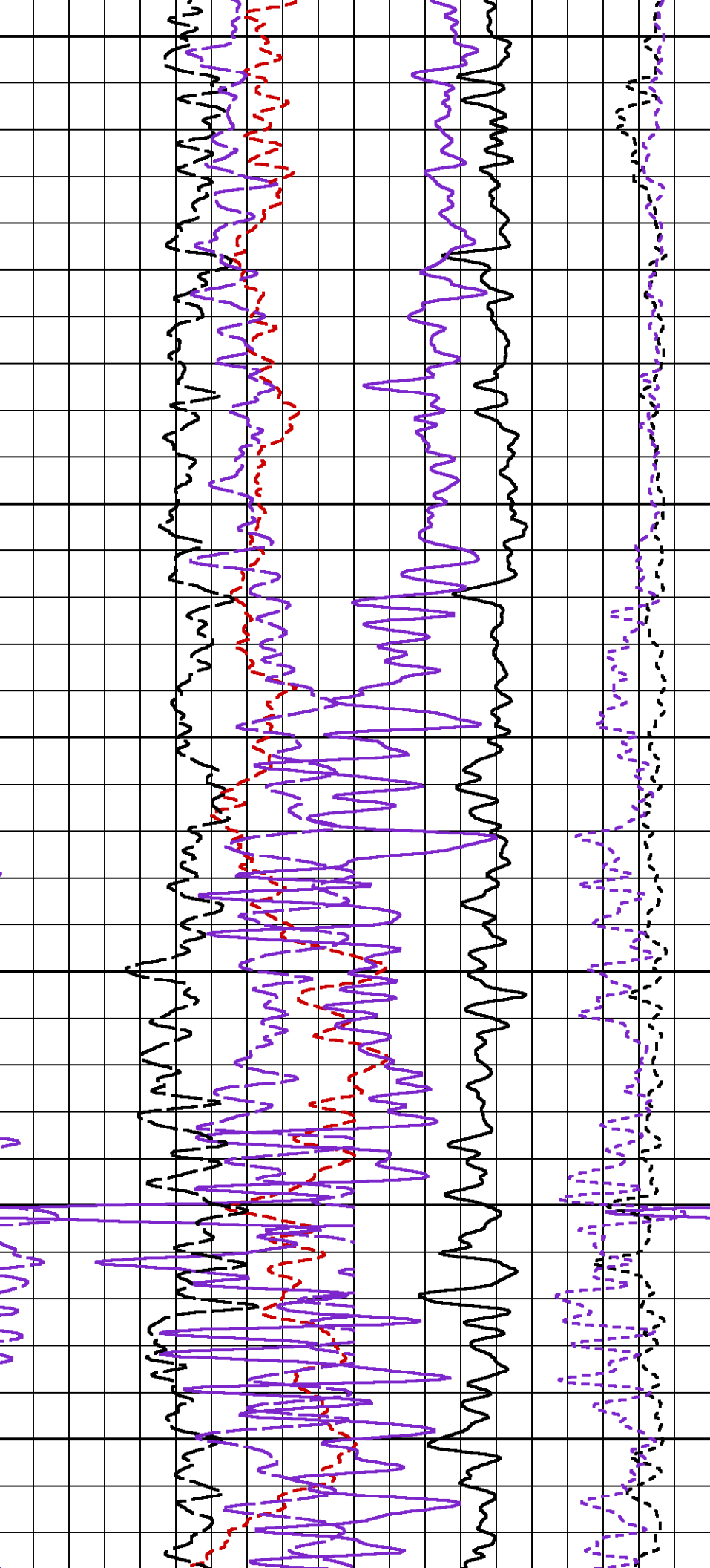


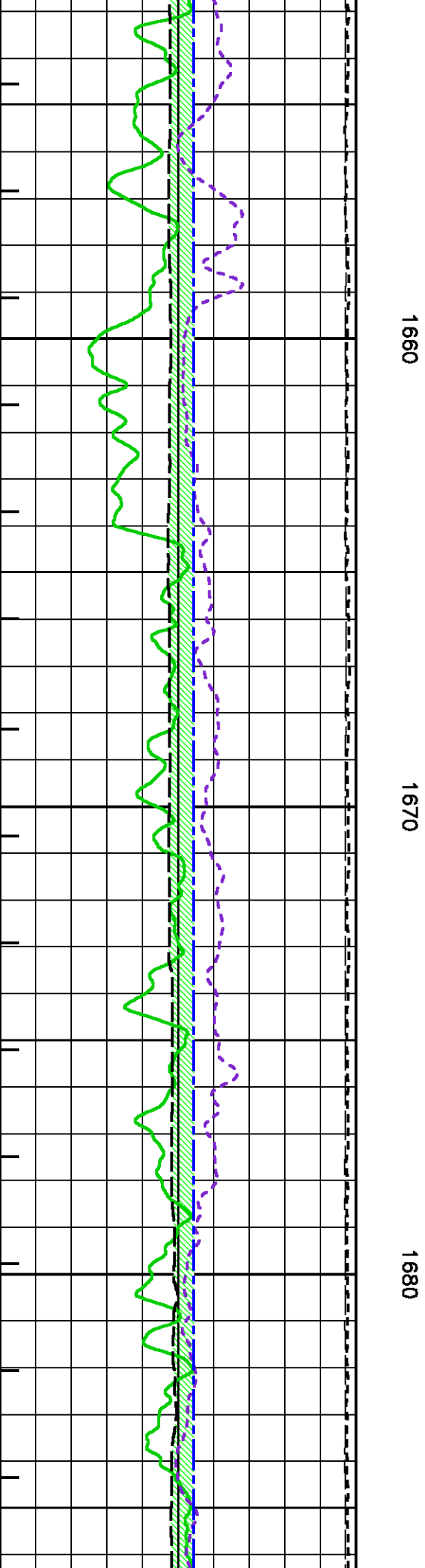
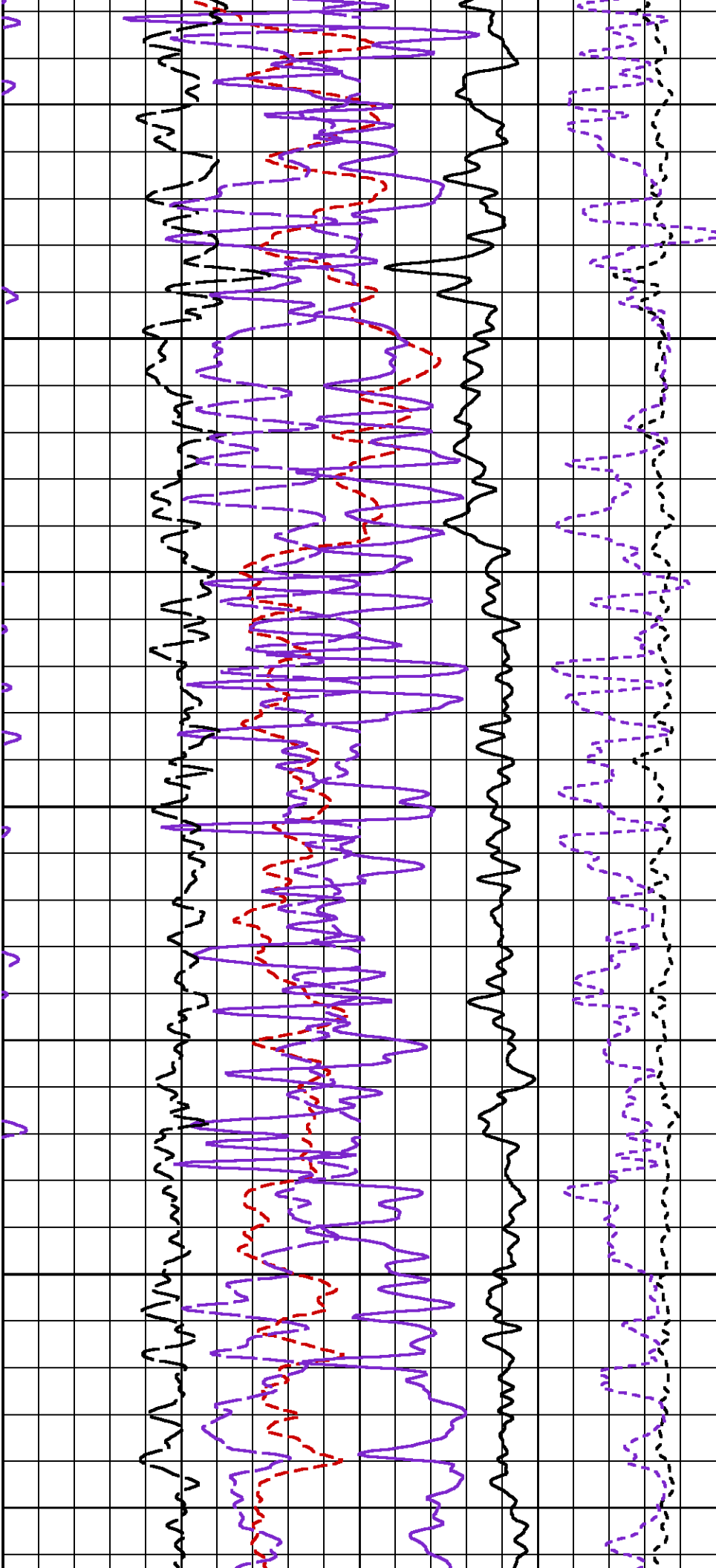
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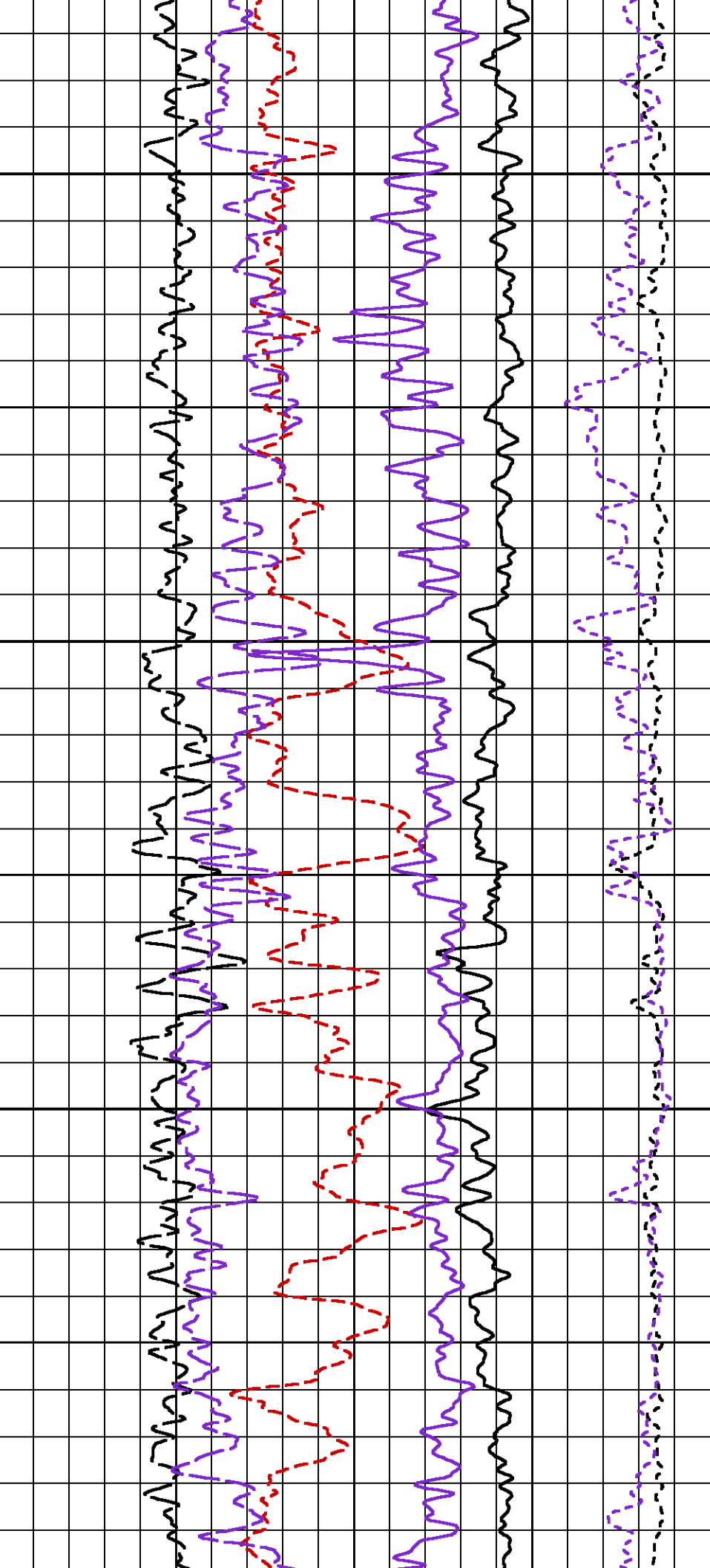
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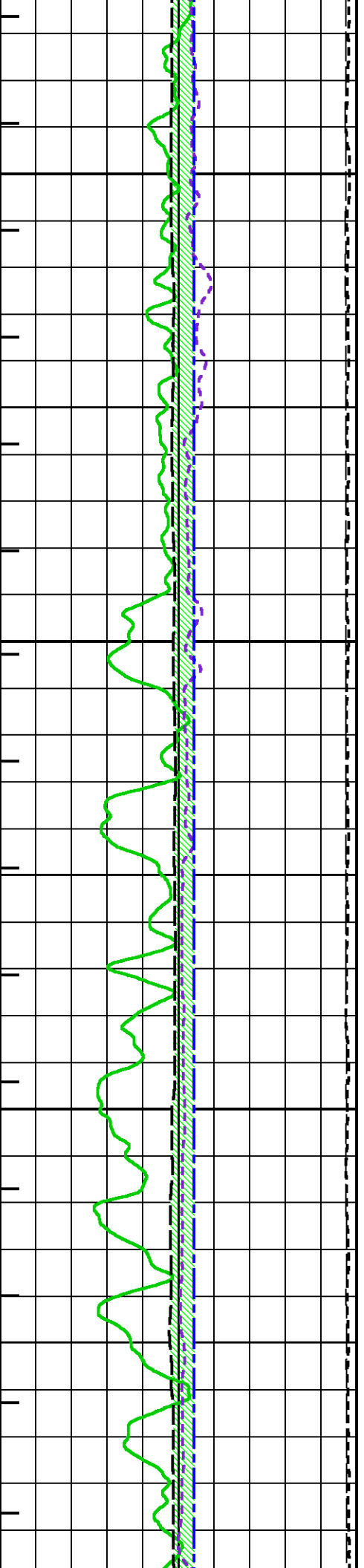


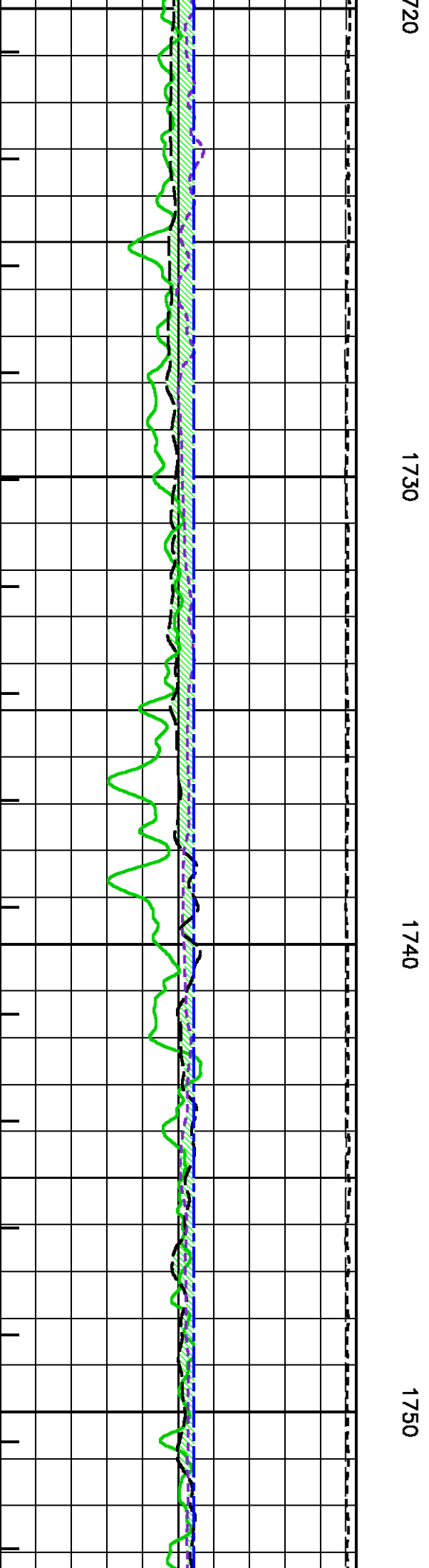
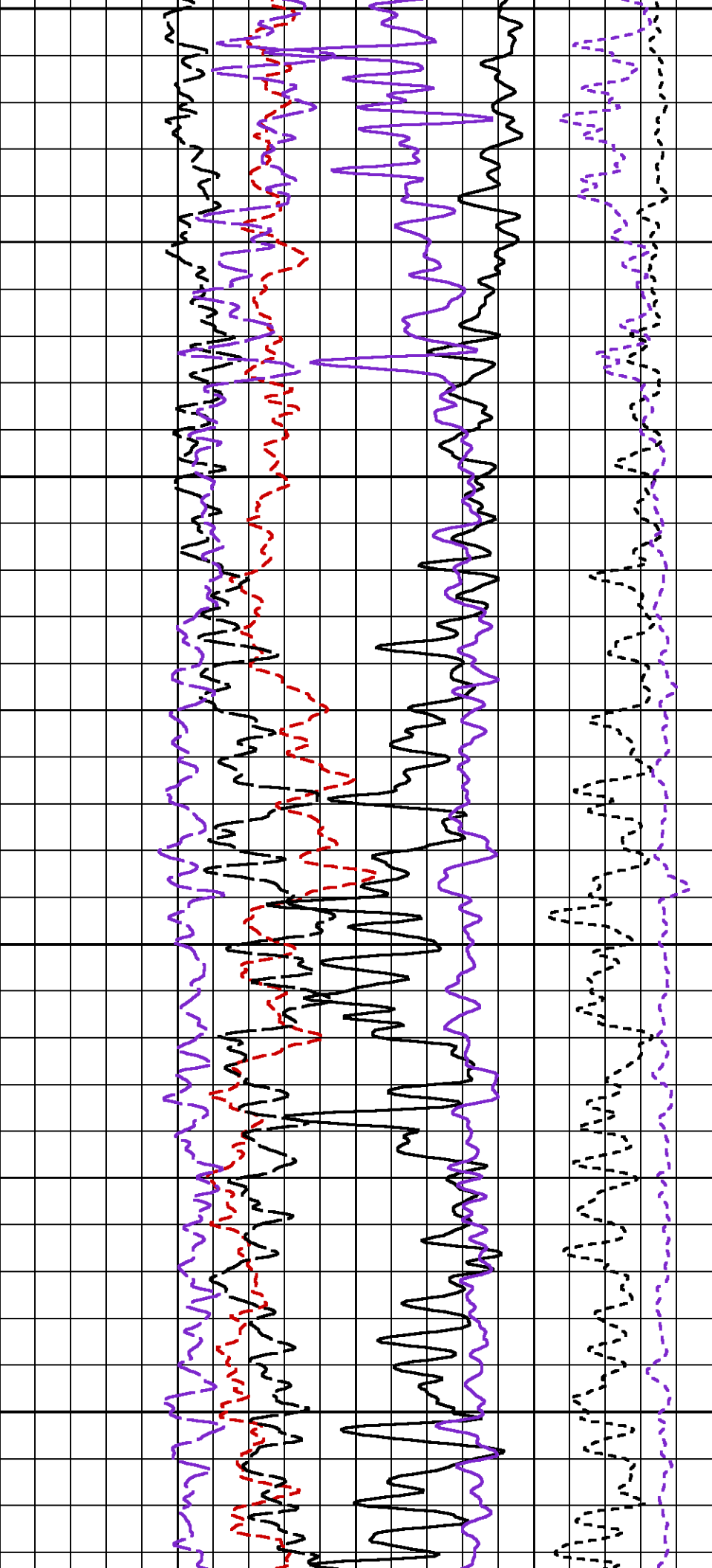
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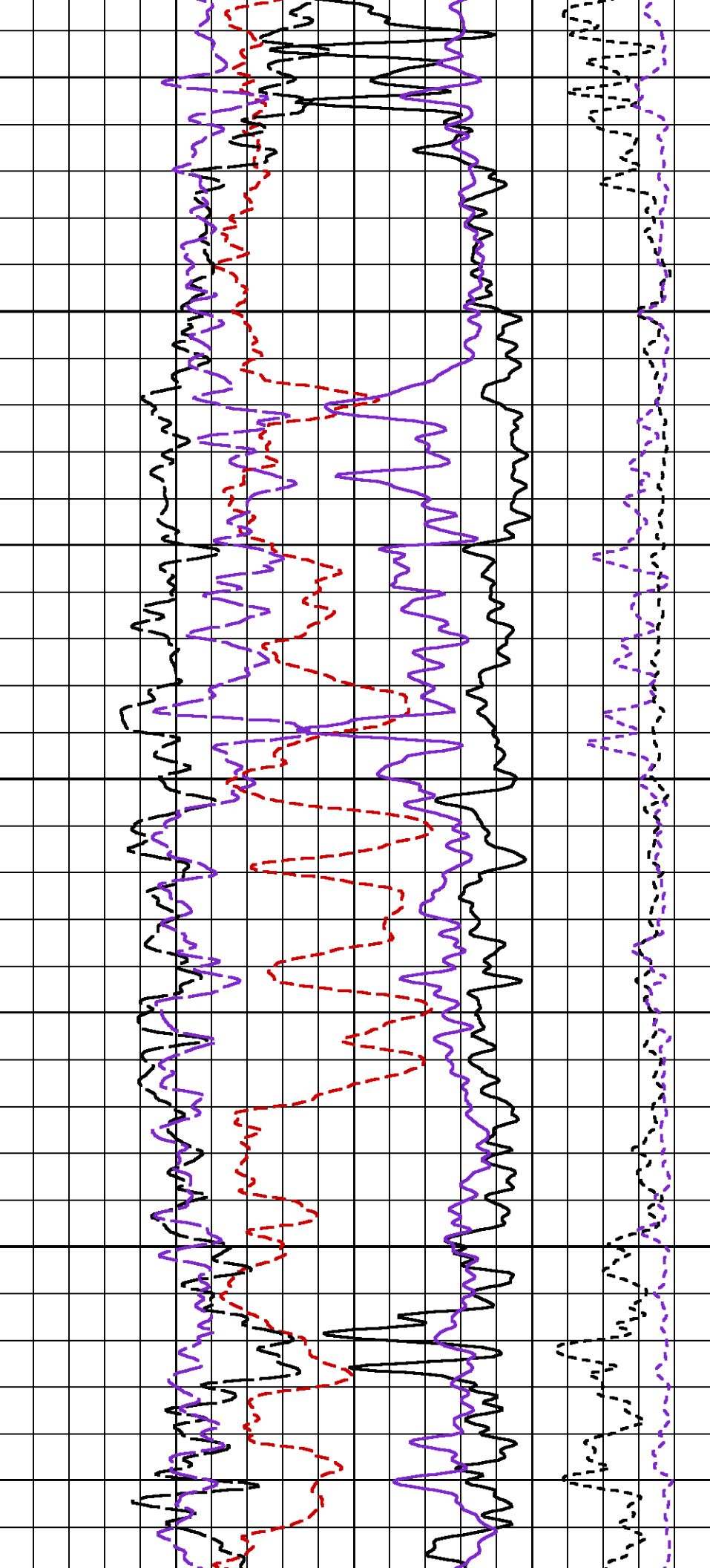
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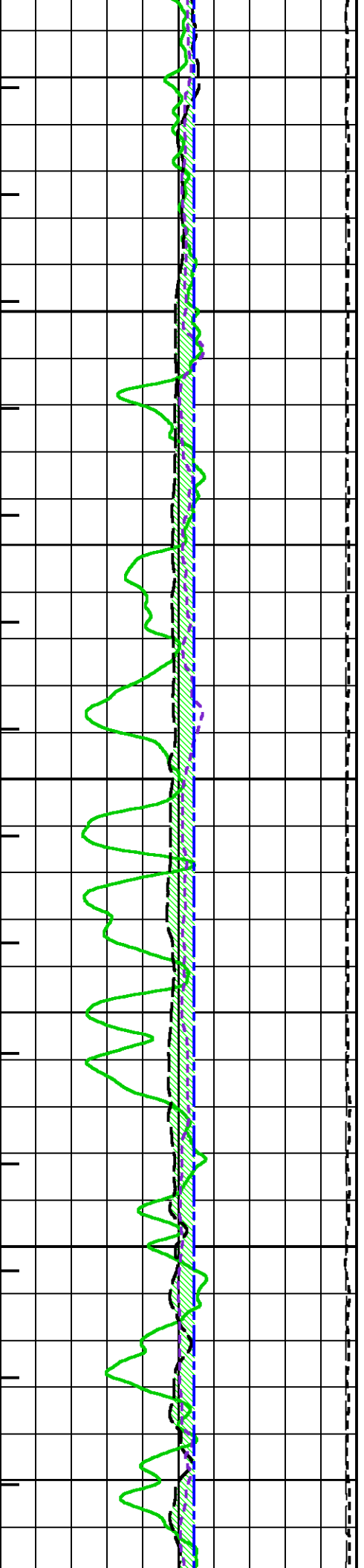


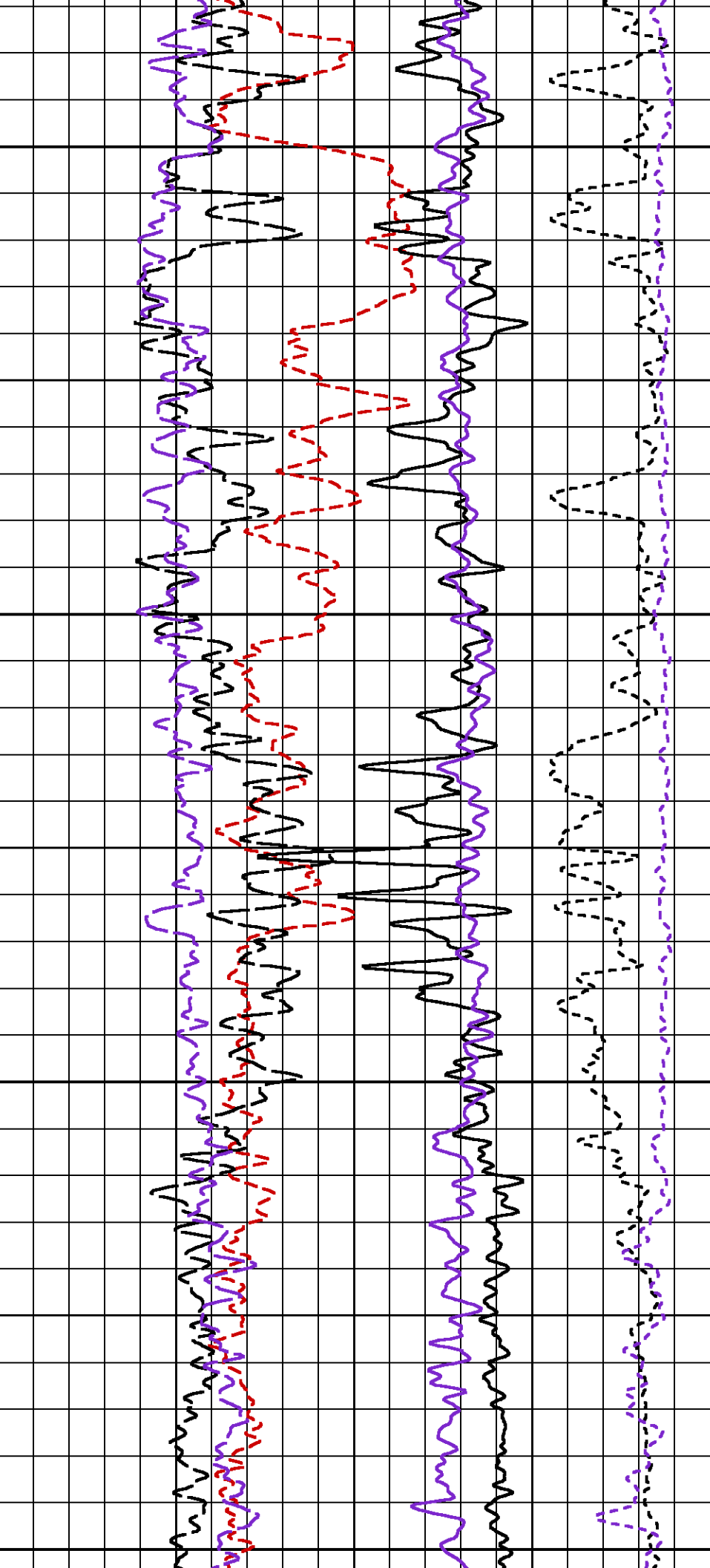


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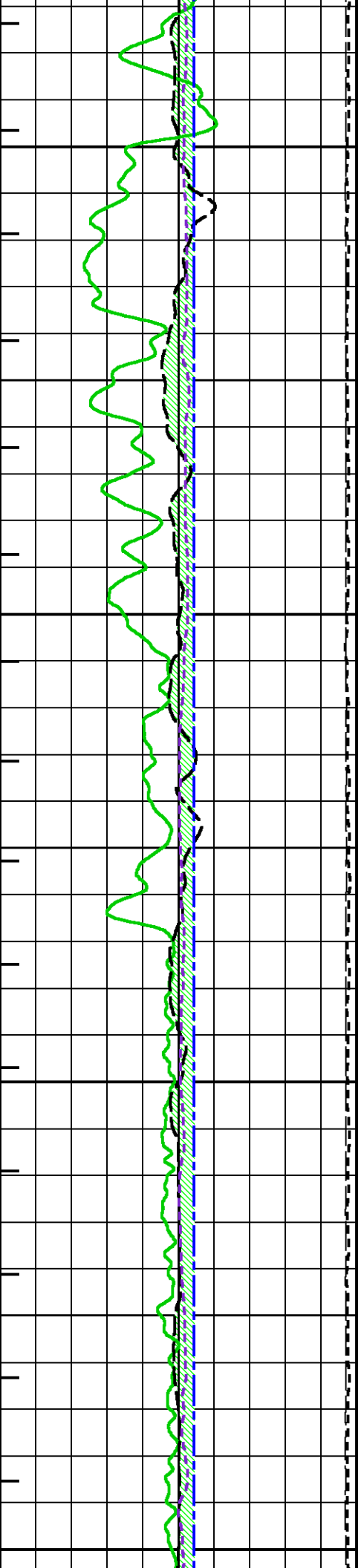


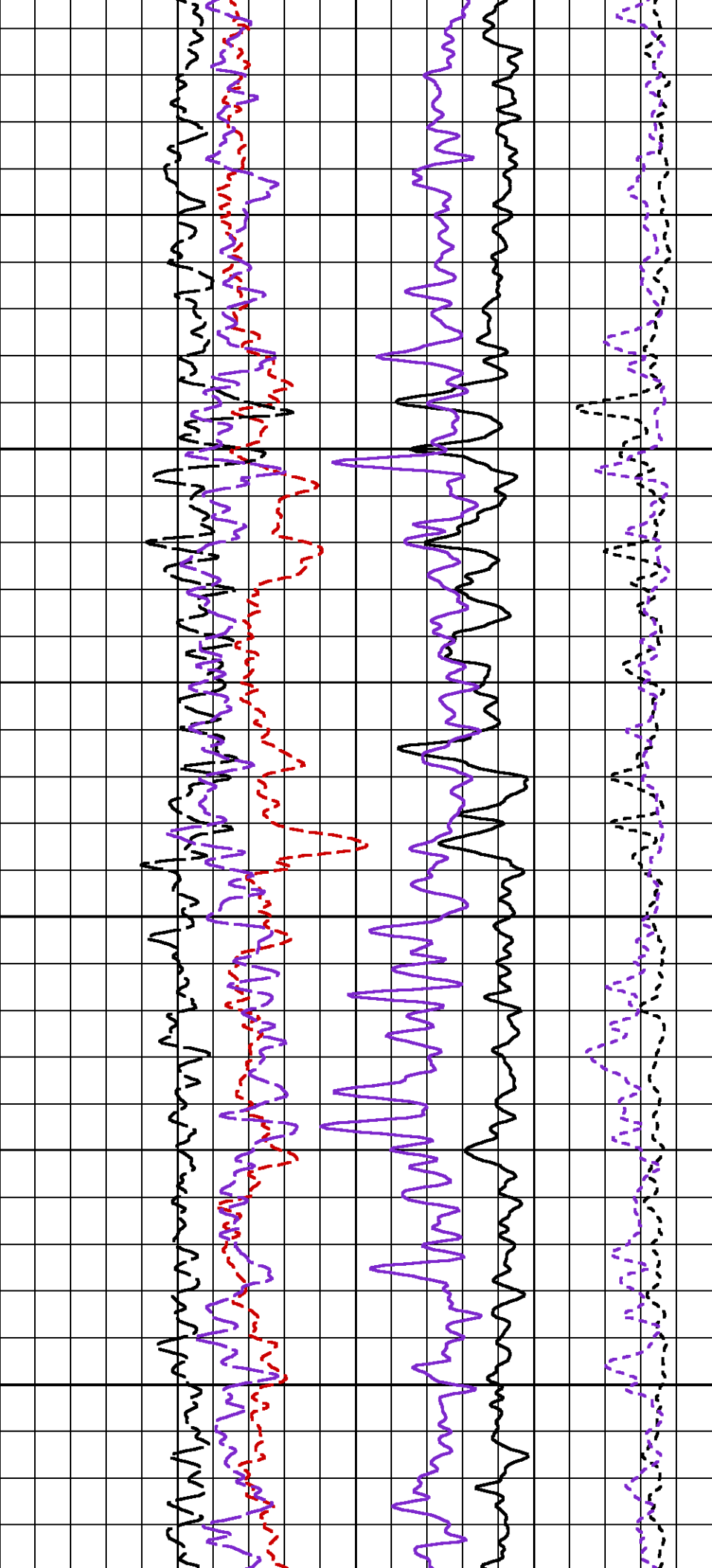
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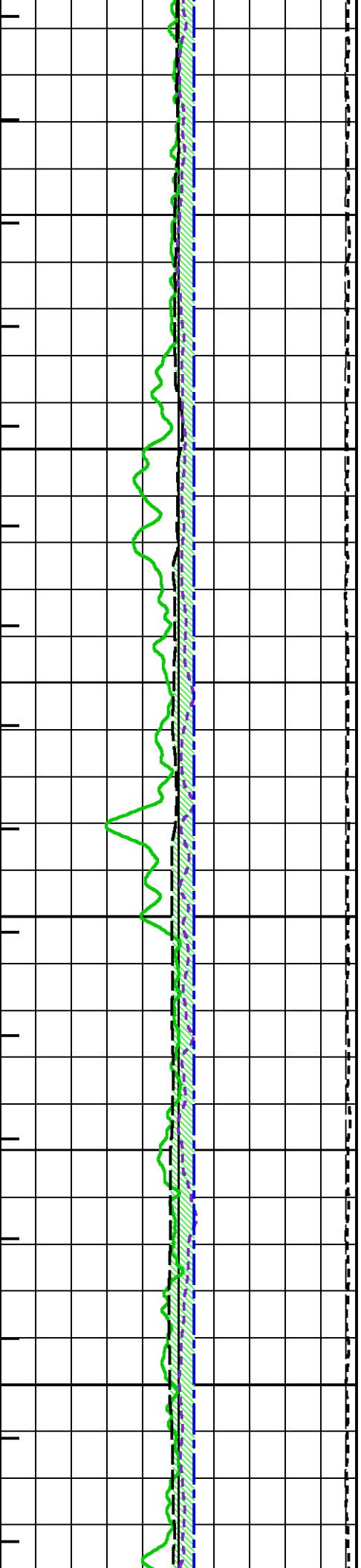


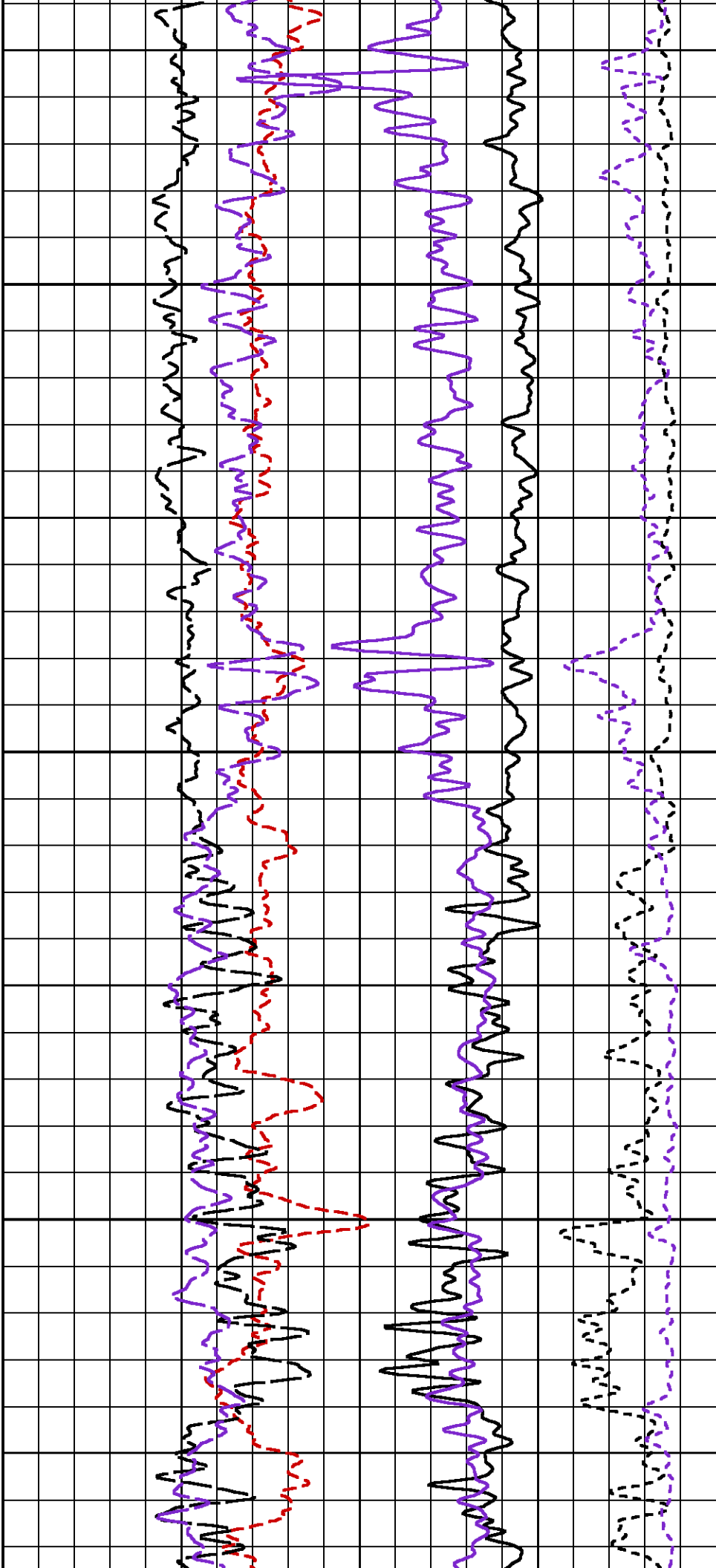


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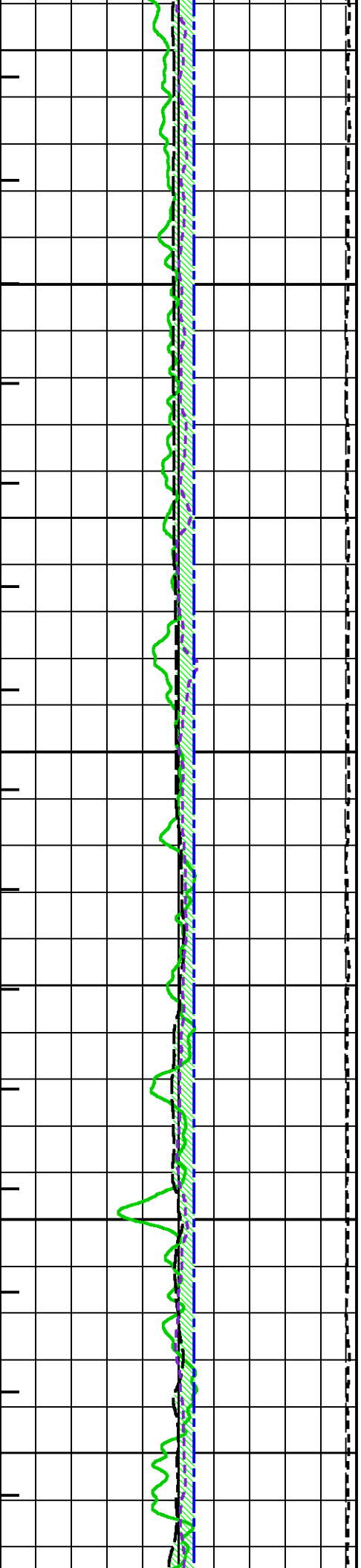


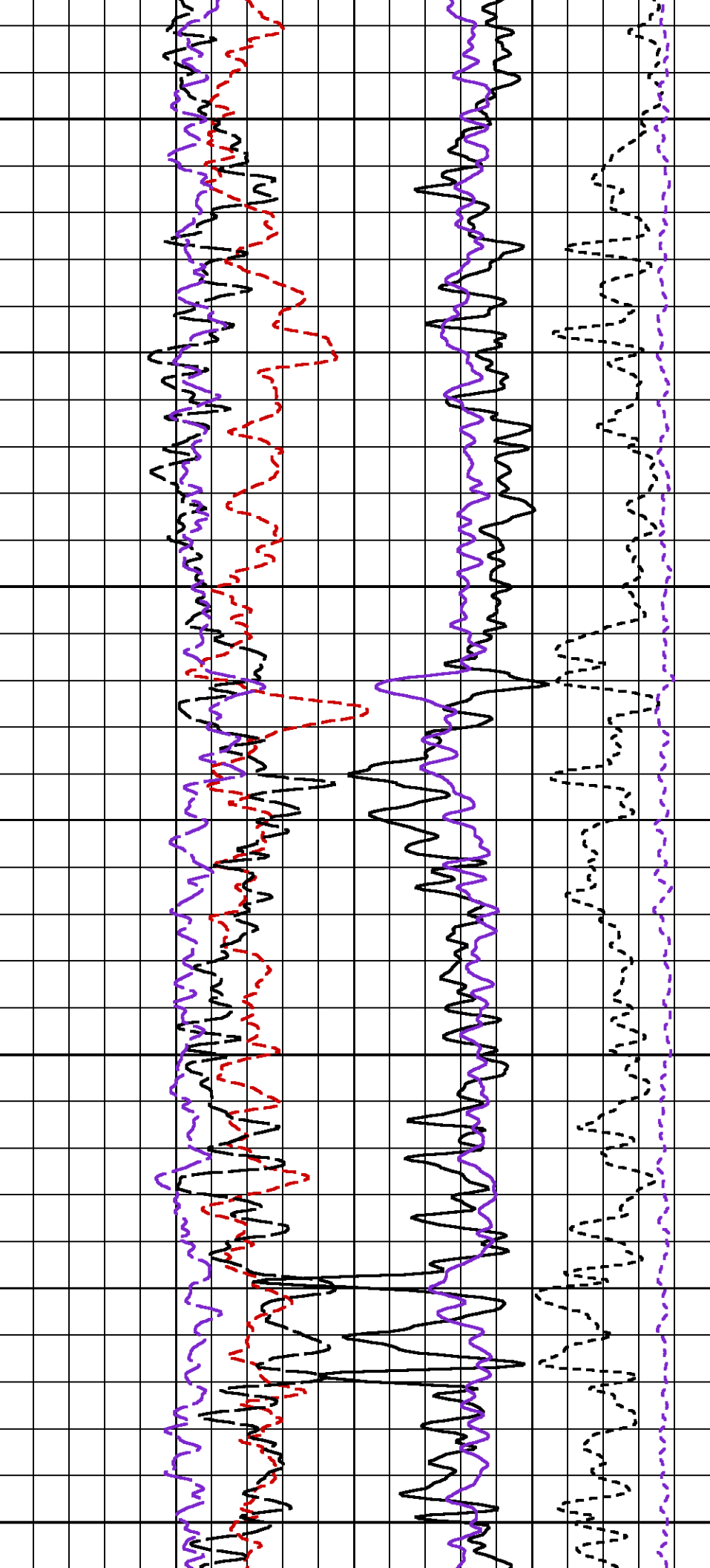


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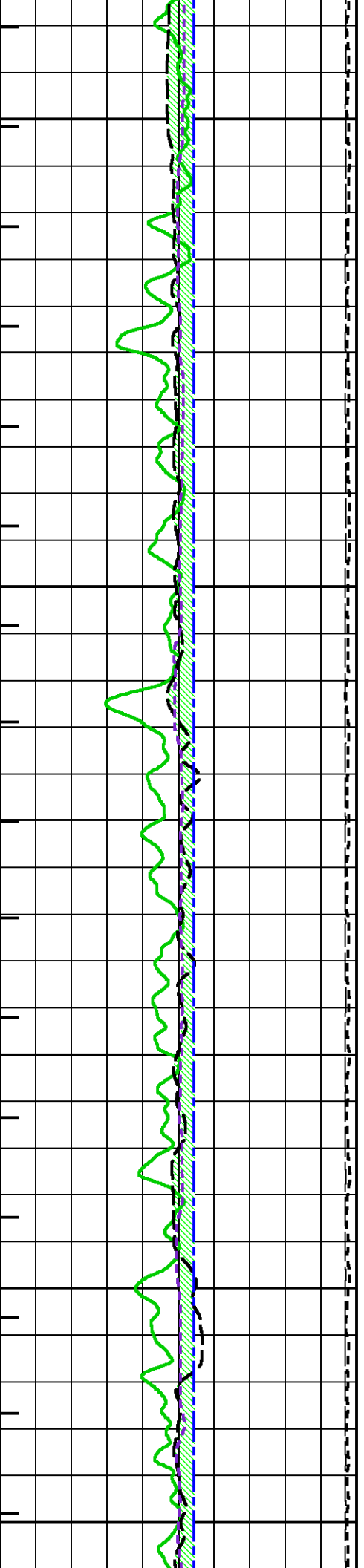


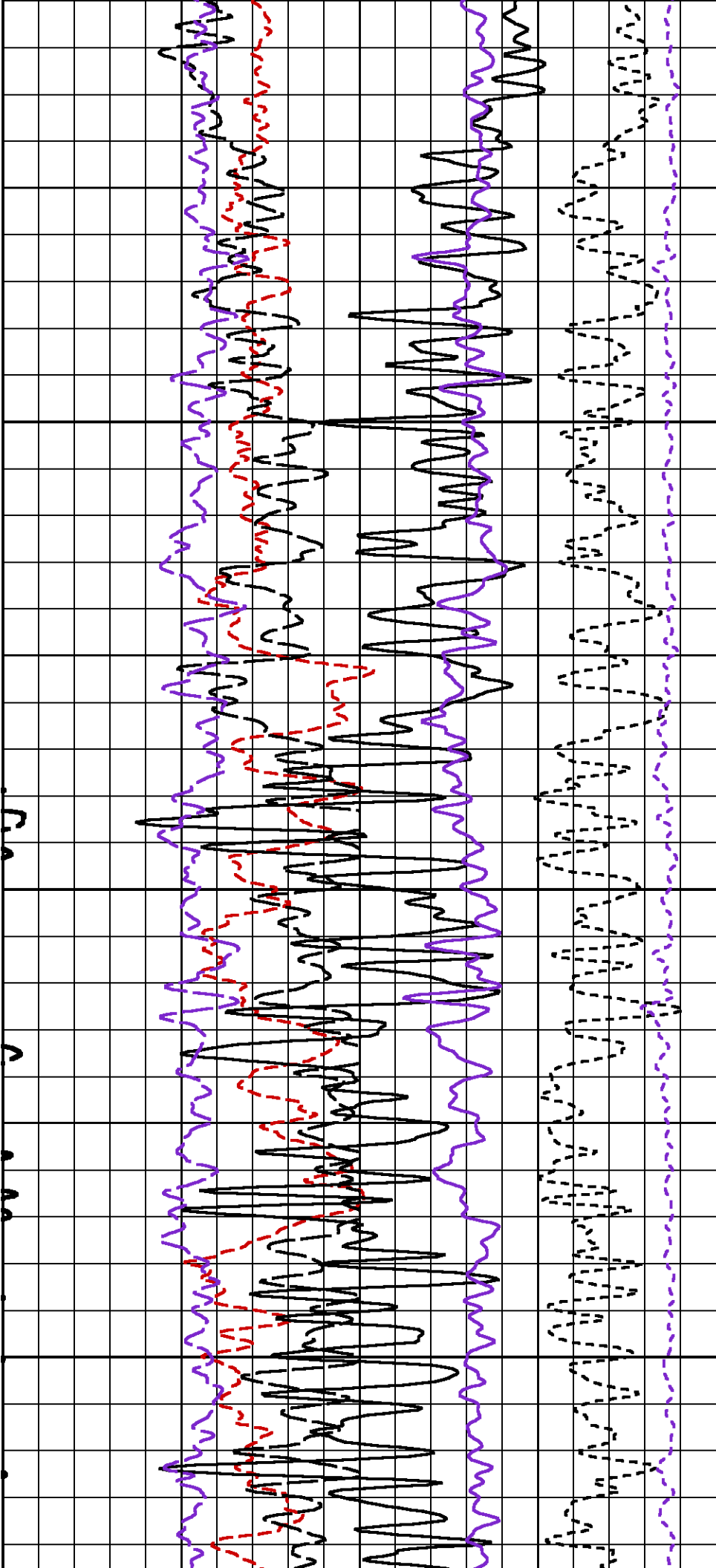
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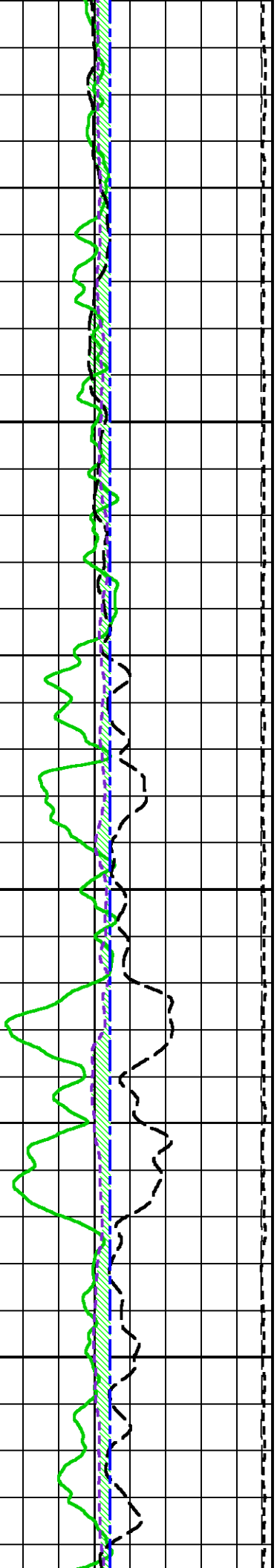


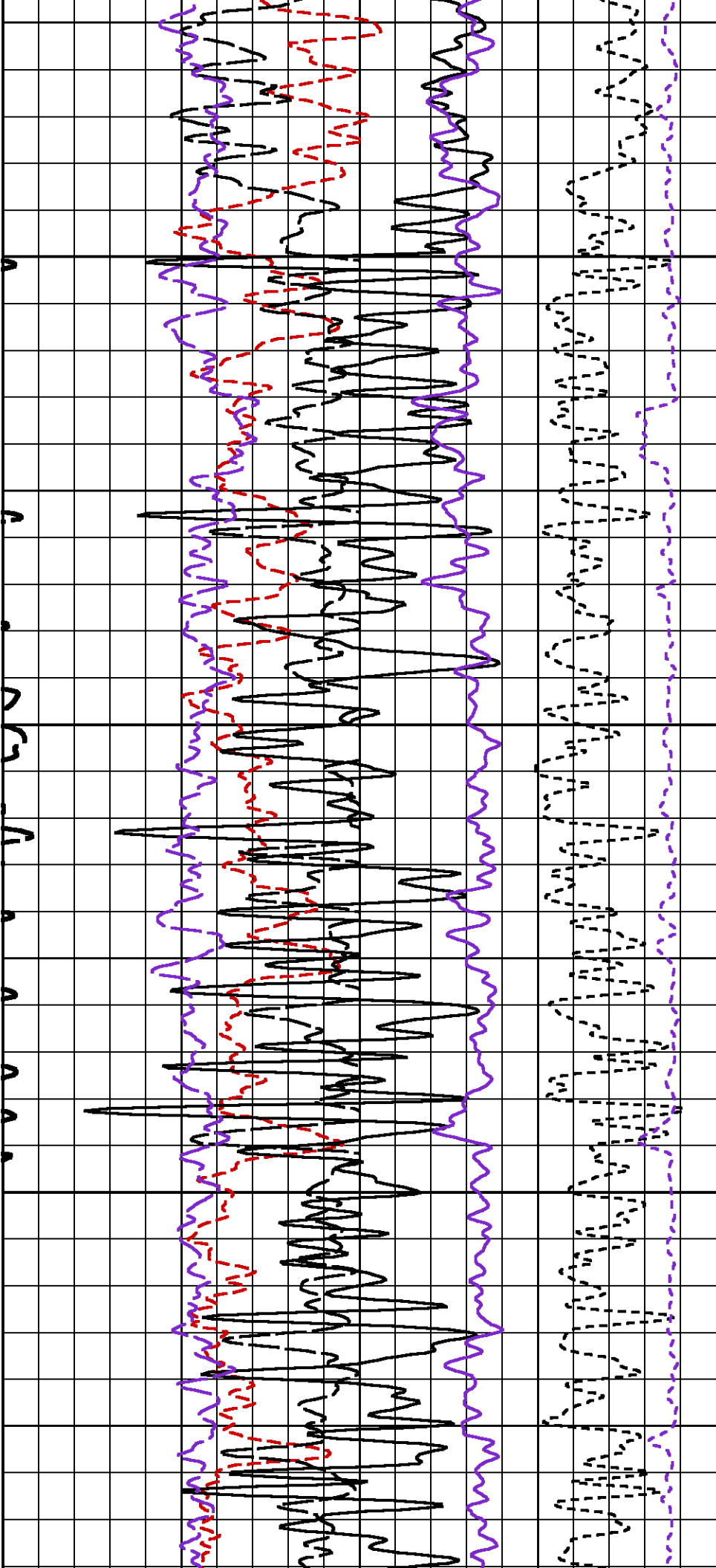


1930

1940

1950

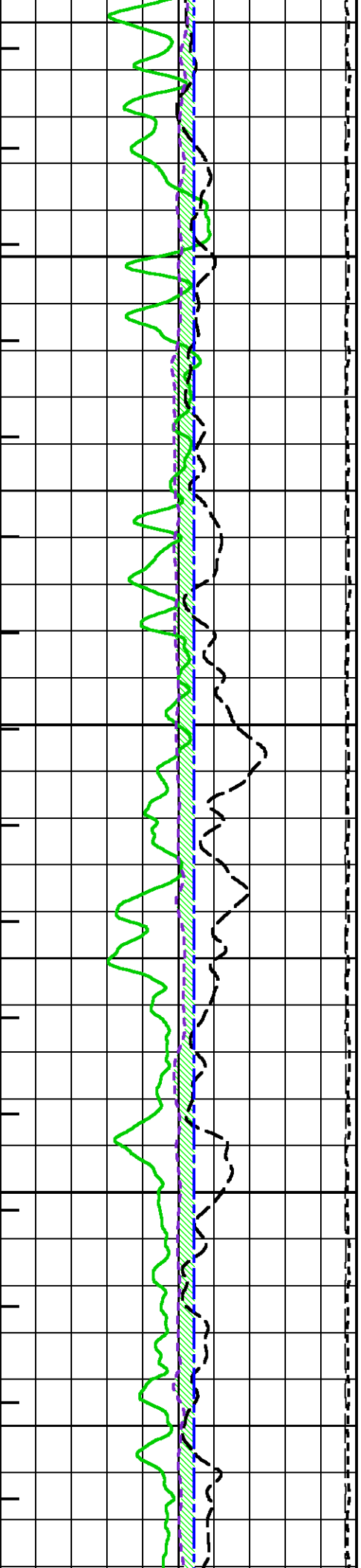


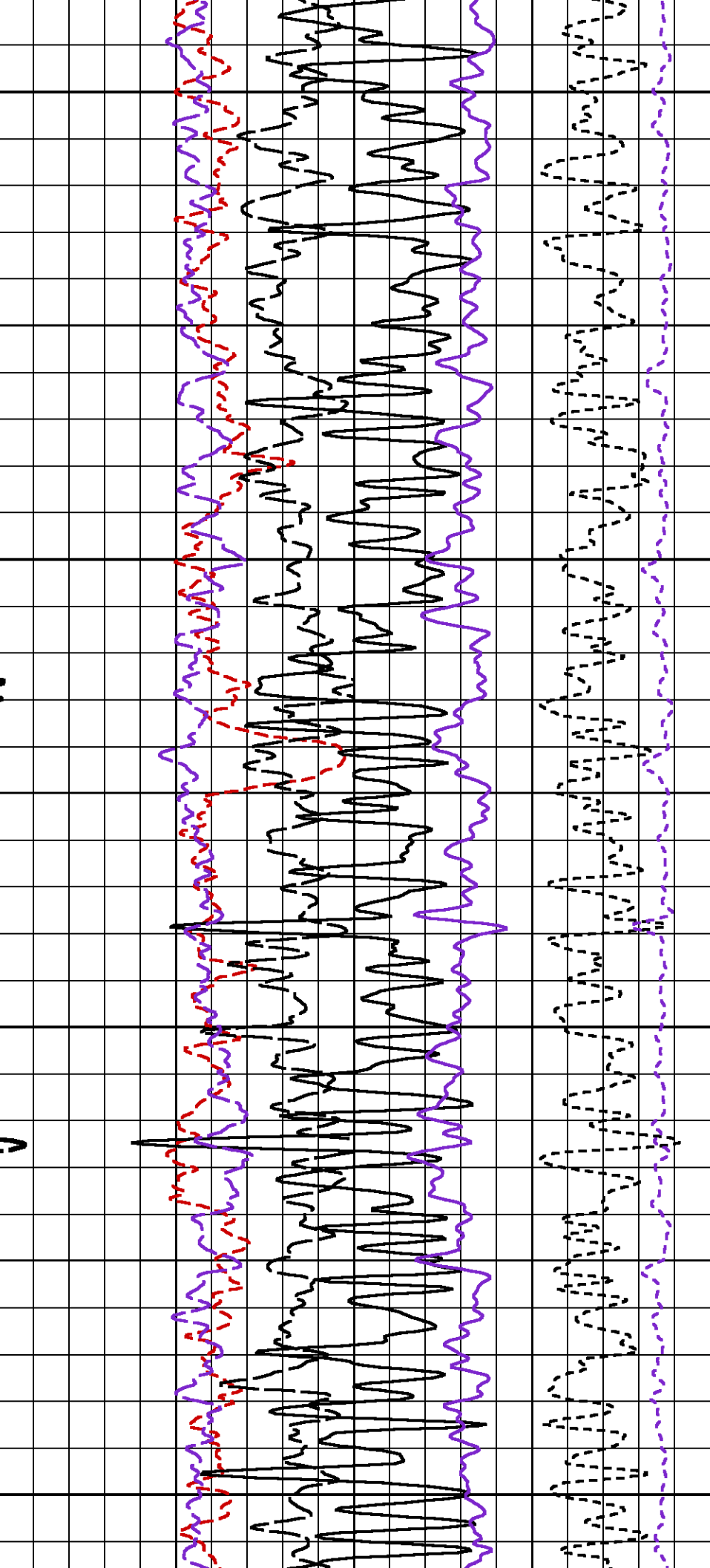


1960

1970

1980



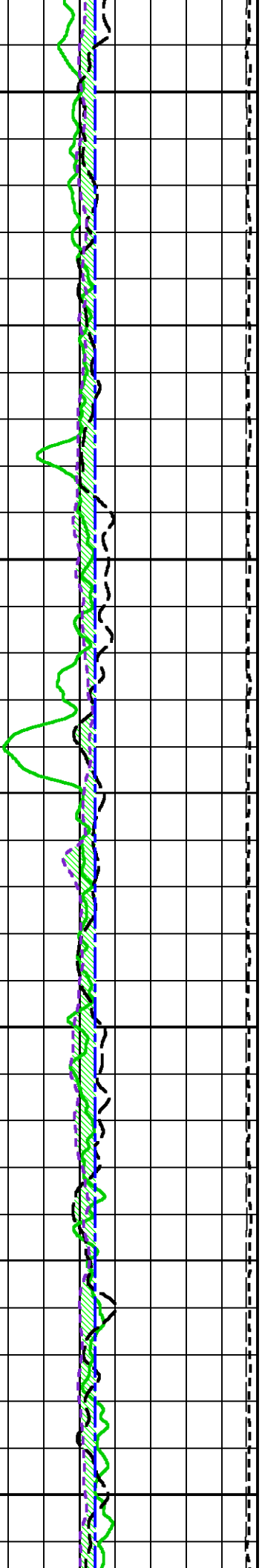


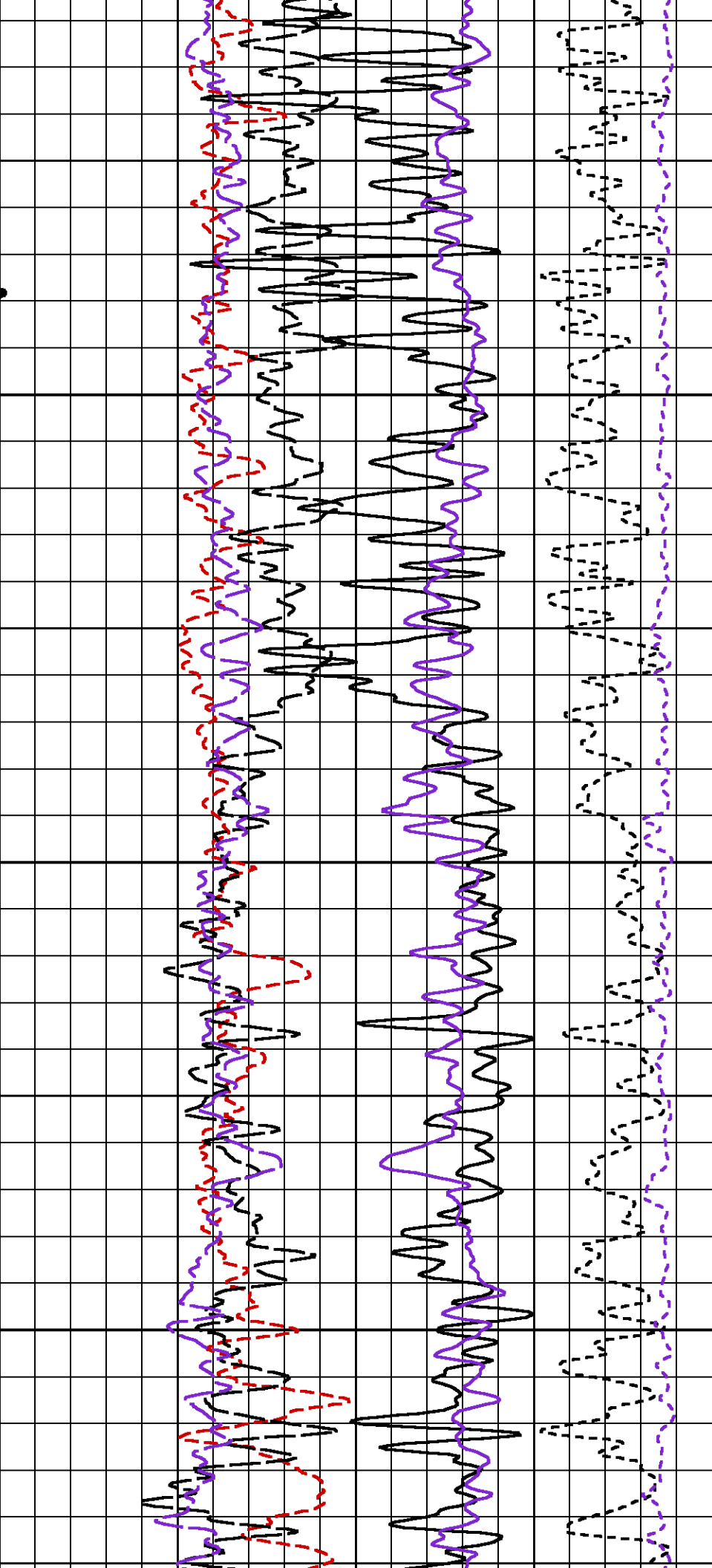
1990

2000

2010

2020

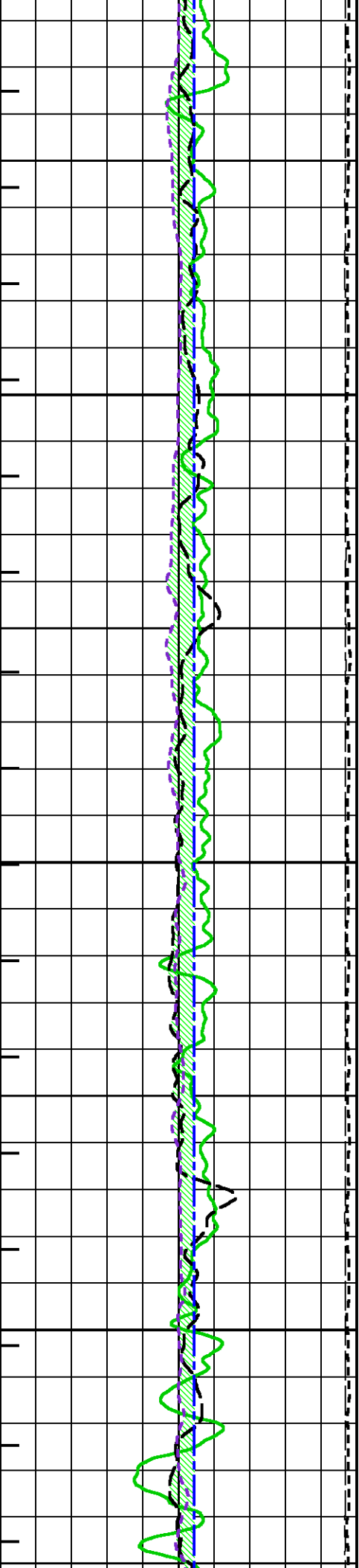


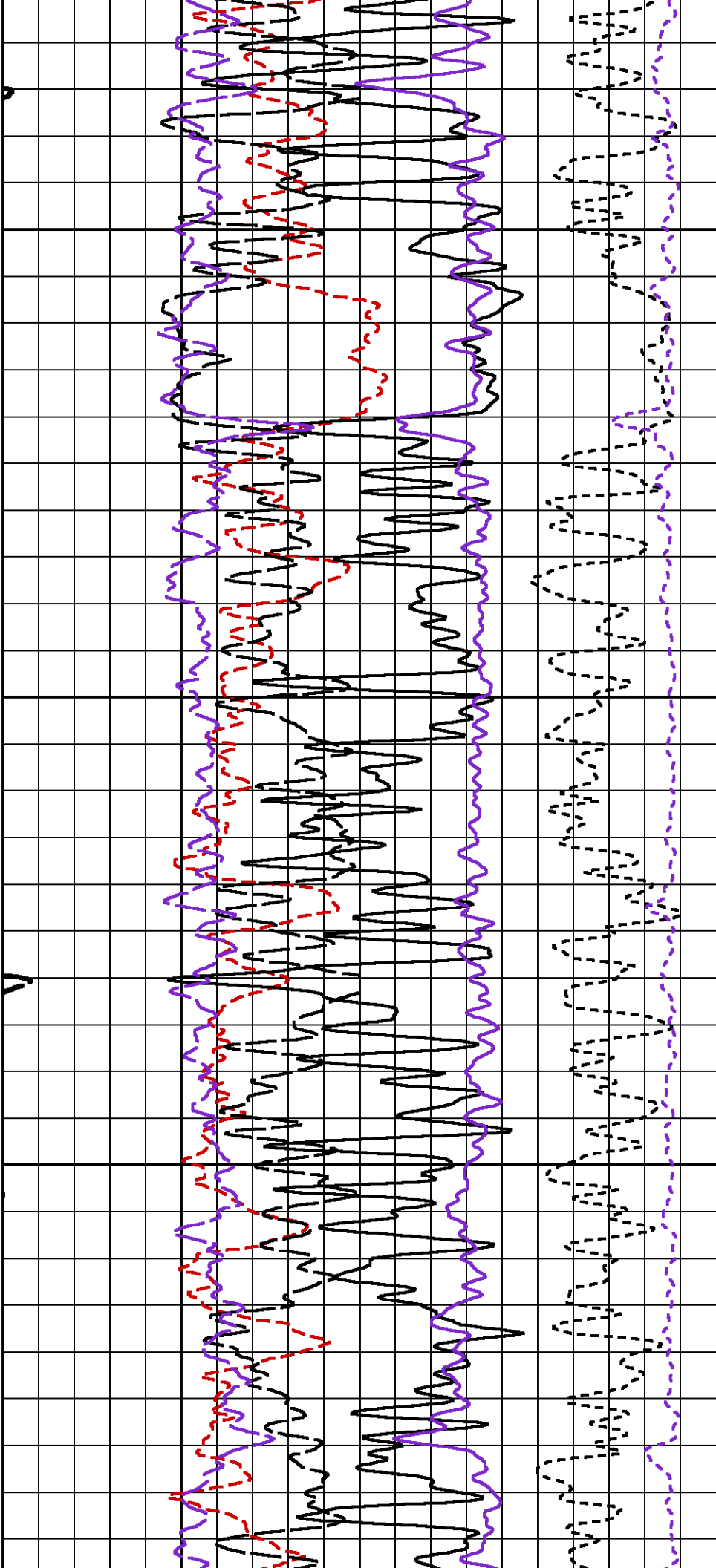


2030

2040

2050

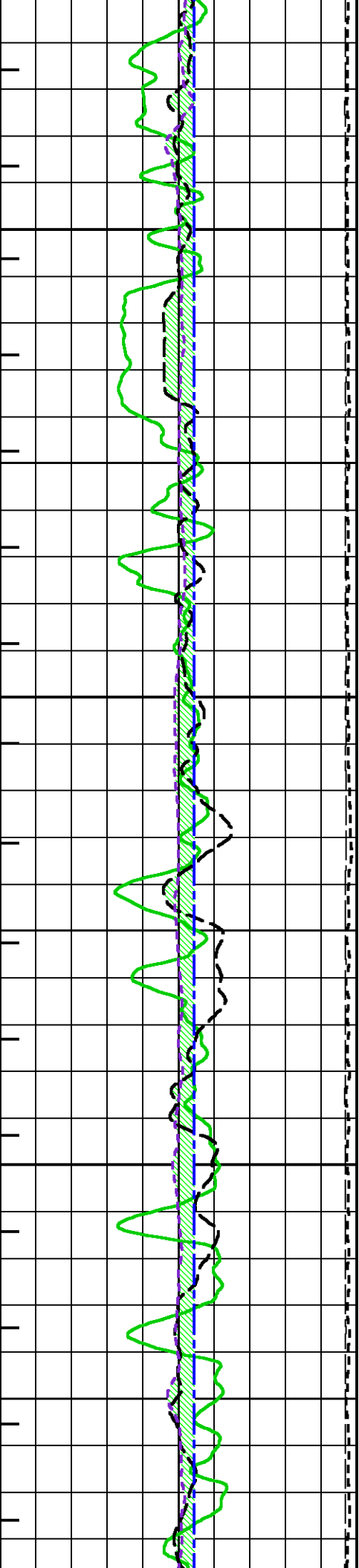


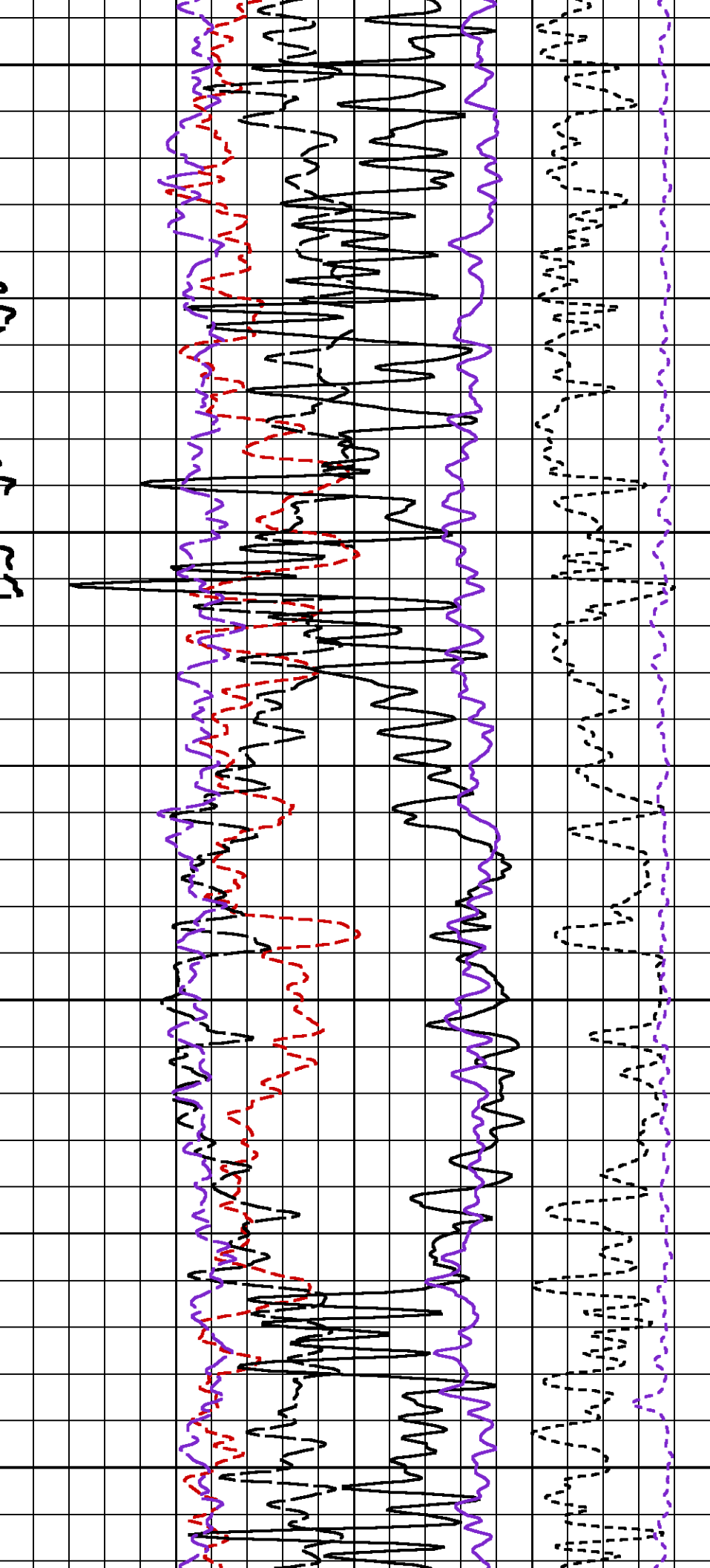


2060

2070

2080



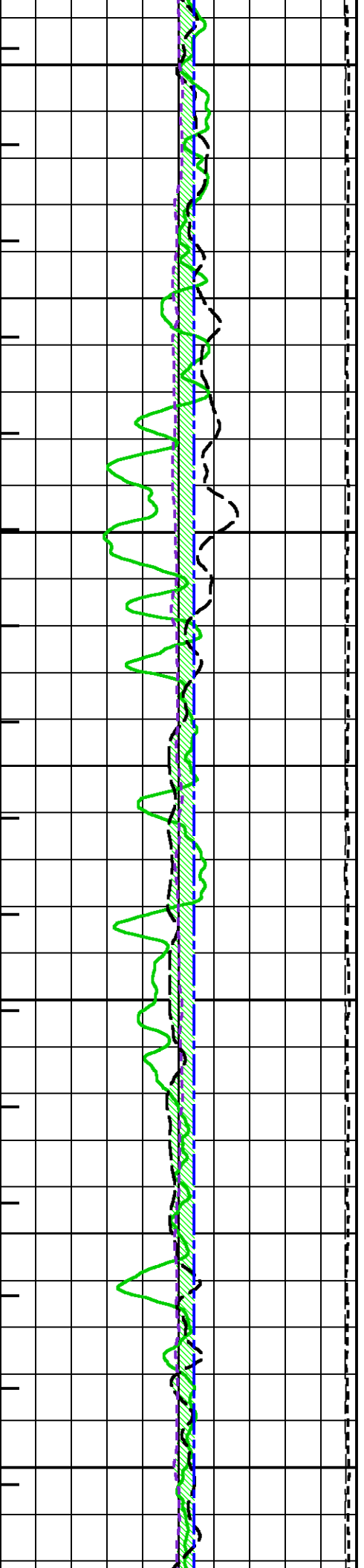


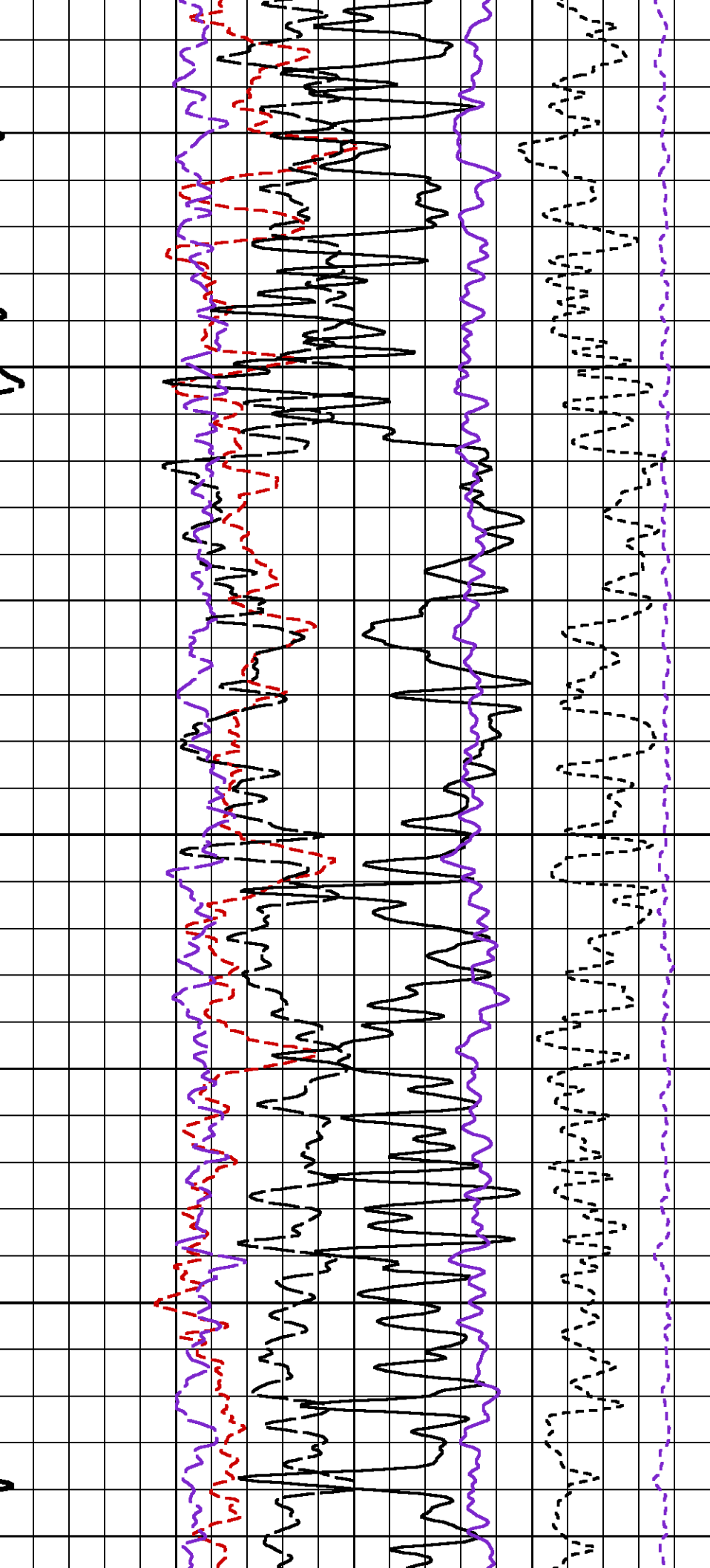
2090

2100

2110

2120

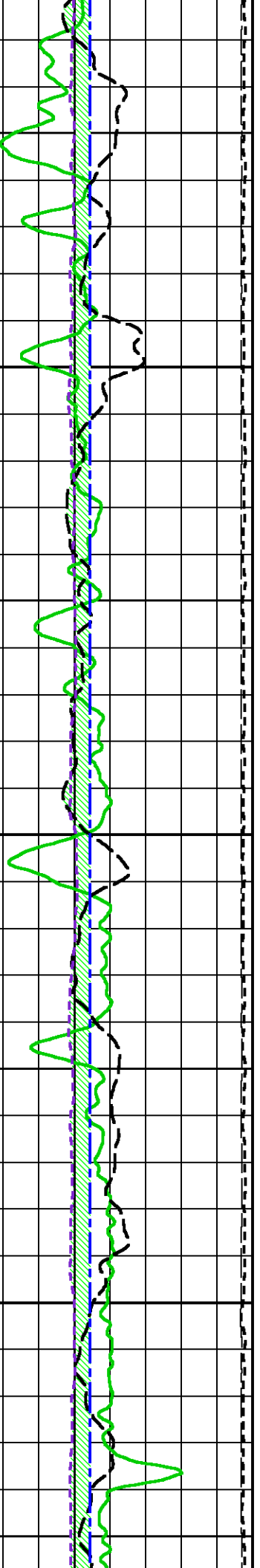


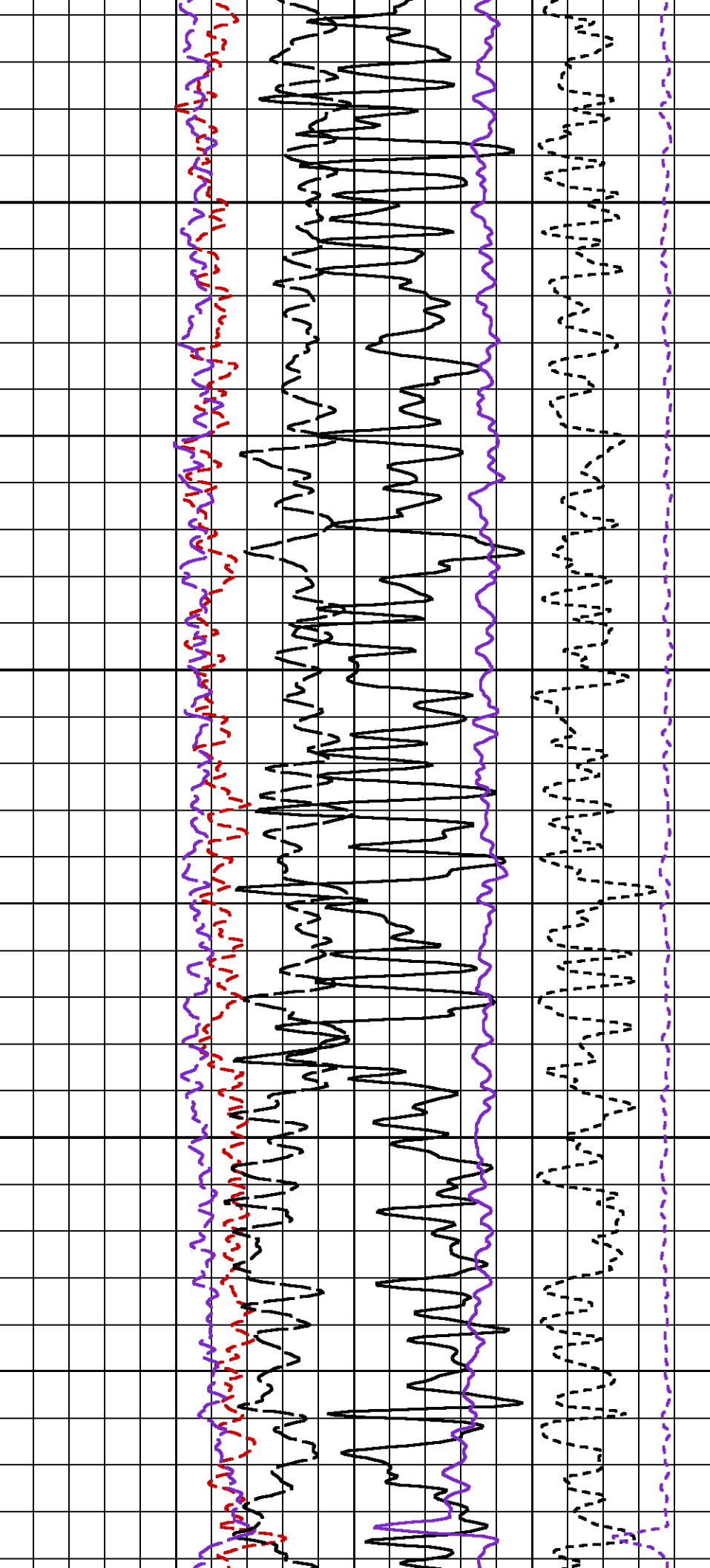


2130

2140

2150

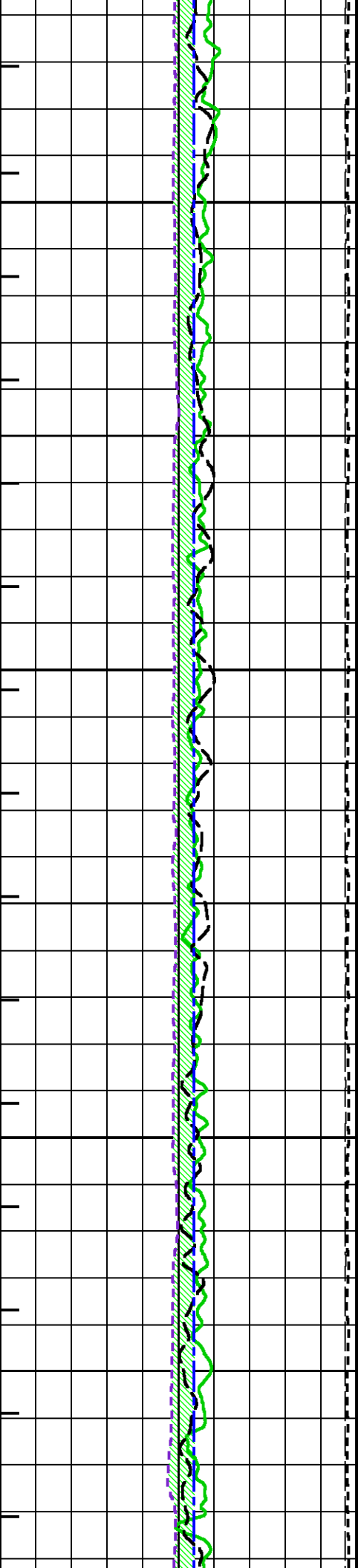


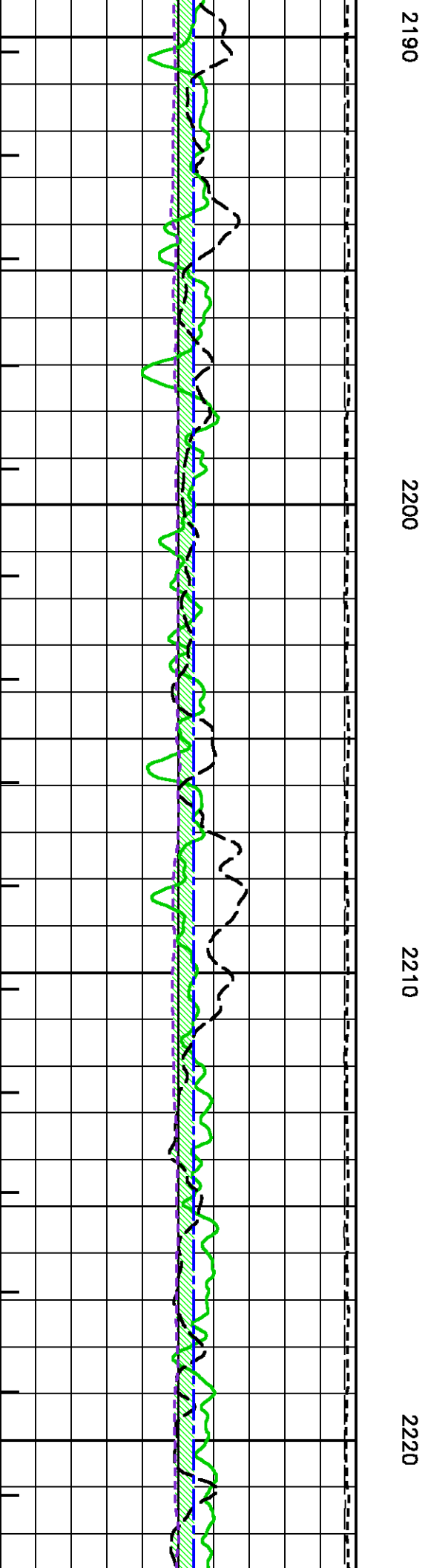
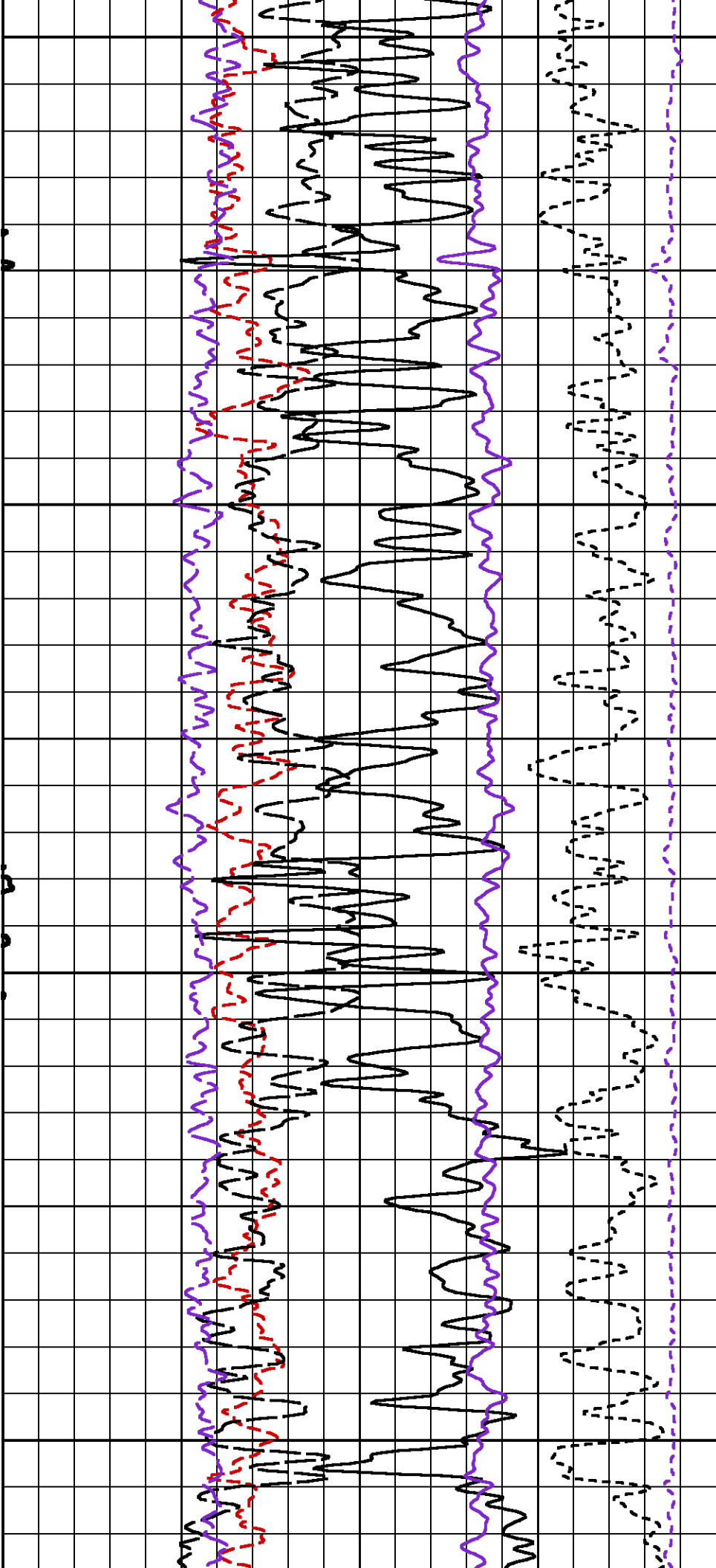


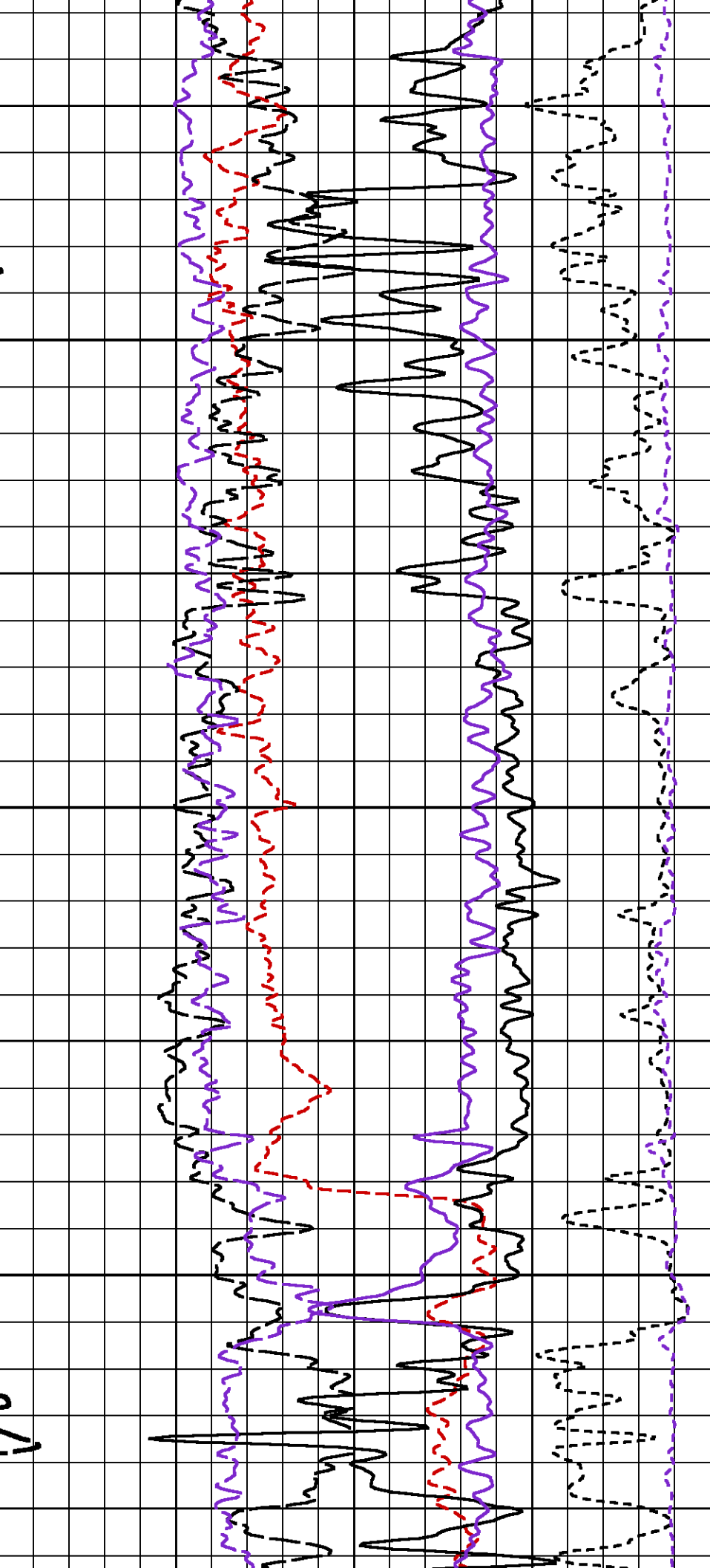
2160

2170

2180



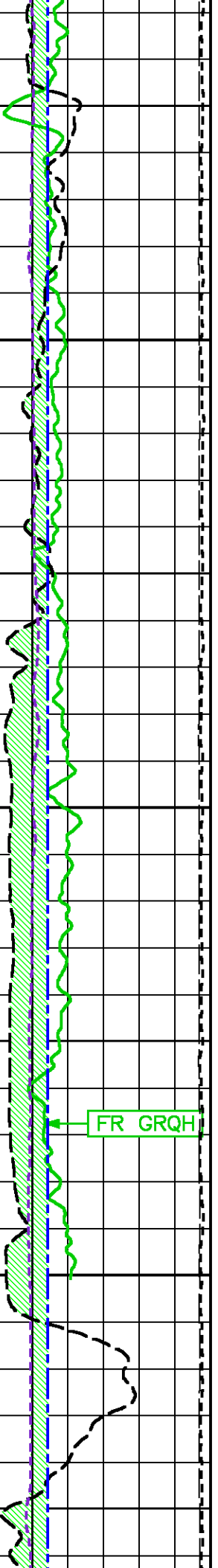


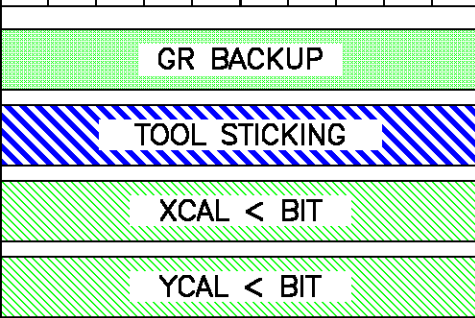
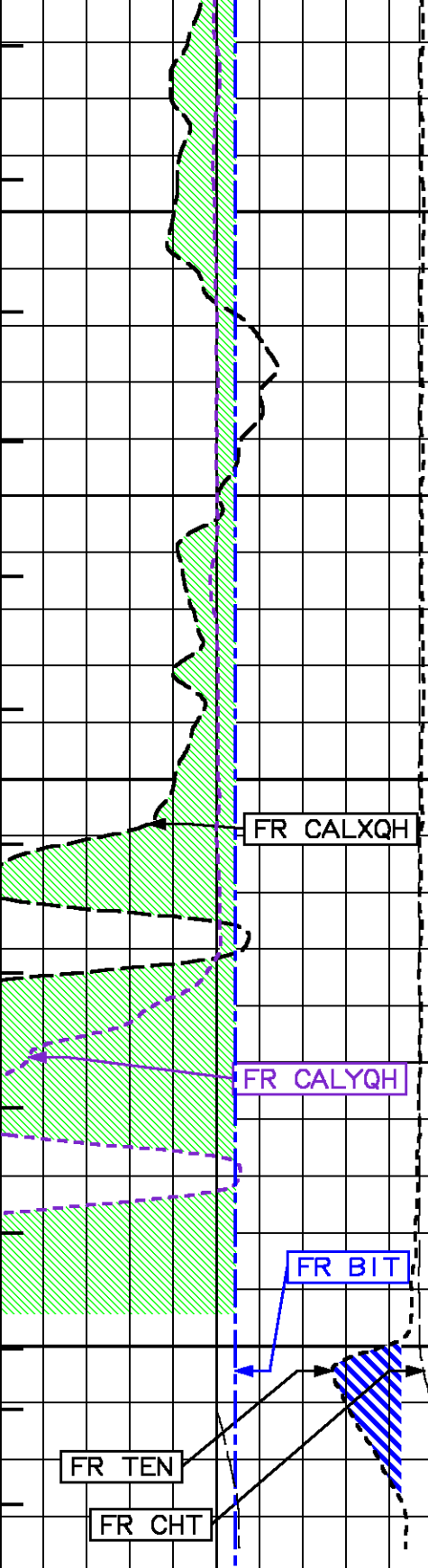


2230

2240

2250



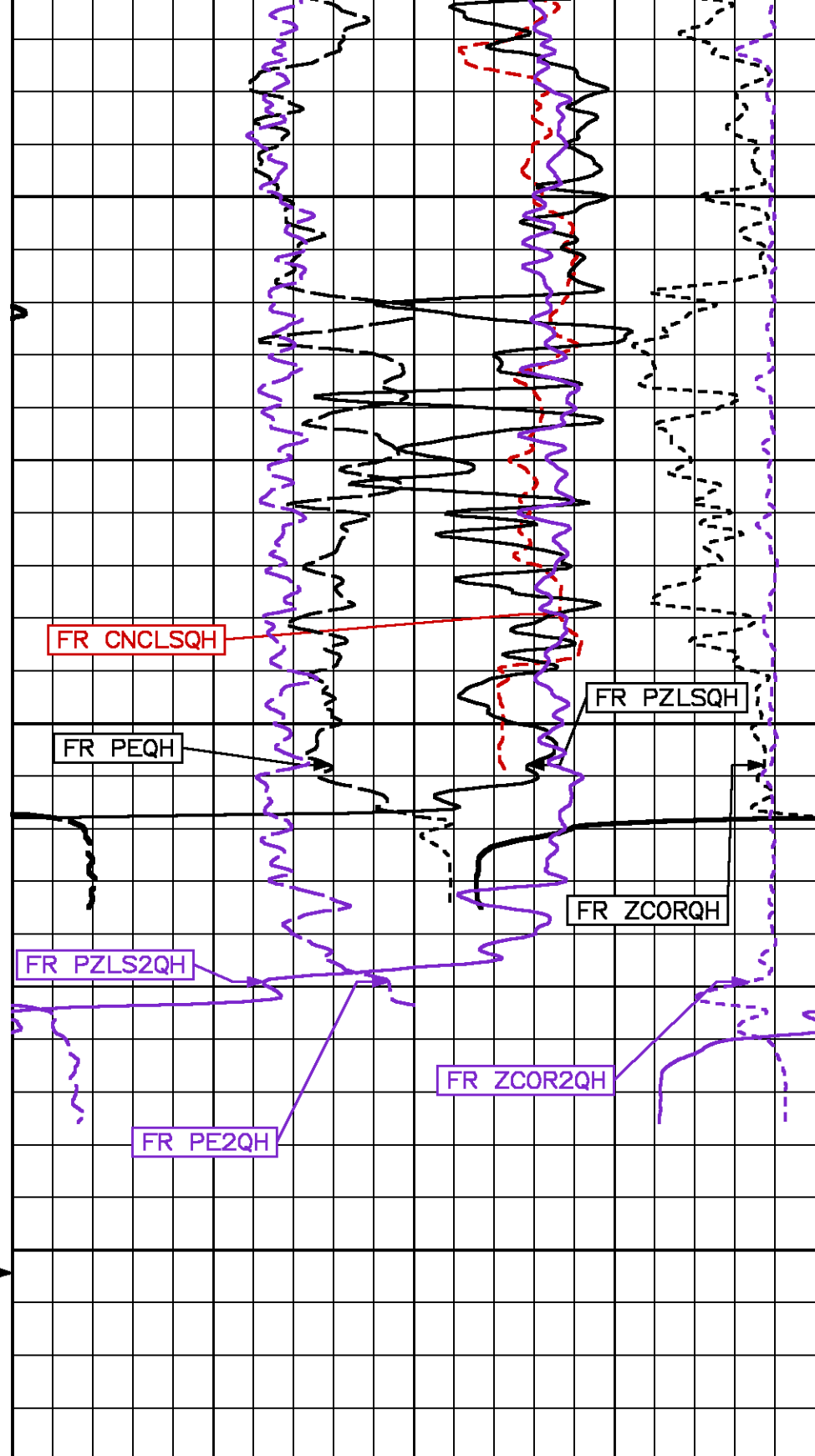


2260

2270

2280

METERS



GAMMA RAY [gr h]

NEUTRON LIMESTONE POROSITY [ncals h]

0	GRAPPA NAT [gr.h]	150
	(gAPI)	
175	ZDL Caliper X [calx.h]	425
	(mm)	
175	ZDL Caliper Y [caly.h]	425
	(mm)	
175	BIT SIZE	425
	(mm)	
	DIFF. TENSION [ten]	
1900		100
	(kgf)	
	CH-TENSION [cht]	
5500		500
	(kgf)	
1	MINUTE MARK	

45	NEUTRON Limestone Porosity [enls.h]	-15
	(pu)	
45	Z-DENSITY Limestone Porosity [pzls.h]	-15
	(pu)	
45	Z-DENSITY-2 Limestone Porosity [pzls2.h]	-15
	(pu)	
0	P.E. [pe.h]	10 + 450
	(b/e)	(kg/m3)
0	P.E.-2 [pe2.h]	10 + 450
	(b/e)	(kg/m3)
	Z-CORR [zcor.h]	-50
	ZCOR-2 [zcor2.h]	-50

CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/pass/nalcor_run1/r1t2_cals.tp1

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 370830

DATE/TIME PERFORMED: Wed Oct 6 11:15:46 2010

UNIT #: 3885TF 004291

CALB JIG #: 4702NK DA-549

	BACKGROUND CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	323.76	1232.13	0.165	53.46	203.46
		830.0 960.0			150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 370830

DATE/TIME PERFORMED: Wed Oct 6 11:23:02 2010

UNIT #: 3885TF 004291

VERI JIG #: 4702NK DA-549

	BACKGROUND CALBRTR ON (cts/s)	MULT	BACKGROUND CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	323.58	0.165	53.43	203.05
	1229.64			149.62

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 370830 DATE/TIME PERFORMED: Tue Nov 2 09:15:17 2010 DAYS SINCE CAL: 26

UNIT #: 3885TF 004291 VERI JIG #: 4702NK DA-549

	BACKGROUND CALBRTR ON (cts/s)		MULT	BACKGROUND CALBRTR ON (gAPI)		DIFF. (gAPI)
GR	103.00	1024.82	0.165	17.01	169.23	152.22
						139.62 159.62

CN PRIMARY CALIBRATION SUMMARY

TOOL #: 2436XA 10394243 DATE/TIME PERFORMED: Sat Jun 12 14:27:23 2010

UNIT #: 3885TF 004291 CALIBRATOR #: 2437XB 112675 SOURCE #: 4718XA cn-993

SSN DT CPS	LSN DT CPS	SSN/LSN	MCF	CNRATIO	CN PU
5042.59	873.77	5.77107	0.99410	5.73700	25.241
			0.95000 1.05000		

CN BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2436XA 10394243 DATE/TIME PERFORMED: Tue Nov 2 23:12:43 2010 DAYS SINCE CAL: 143

UNIT #: 3885TF 004291 CALIBRATOR #: INTRNL N/A

SSN DT CPS	LSN DT CPS	SSN/LSN	TEMP (degC)	HV (V)	LV (V)
991.07	993.09	0.99797	38.4	1341.5	4.642
		0.95000 1.05000	138.0	1250.0 1450.0	4.300 5.000

CN AFTER LOG VERIFICATION SUMMARY

TOOL #: 2436XA 10394243 DATE/TIME PERFORMED: Wed Nov 3 14:25:17 2010 DAYS SINCE CAL: 143

UNIT #: 3885TF 004291 CALIBRATOR #: INTRNL N/A

SSN DT CPS	LSN DT CPS	SSN/LSN	TEMP (degC)	HV (V)	LV (V)
992.07	994.44	0.99762	35.1	1342.5	4.642
		0.95000 1.05000	138.0	1250.0 1450.0	4.300 5.000

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2223XA 10116105

DATE/TIME PERFORMED: Wed Oct 6 10:56:50 2010

UNIT #: 3885TF 004291

	SIZE (mm)	VALUE	MULTIPLIER	ADD
SMALL RING (Arm)	177.000	1147.2		
LARGE RING (Arm)	279.400	2130.0	0.10419	57.47083
PAD CLOSED		2208.8	0.06350	-140.25879

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10116105

DATE/TIME PERFORMED: Tue Nov 2 23:15:52 2010

DAYS SINCE CAL: 27

UNIT #: 3885TF 004291

	VALUE	MULTIPLIER	ADD	SIZE (mm)
ARM	2436.0	0.10419	57.47083	311.3
PAD	1764.0	0.06350	-140.25879	-28.2

	ACTUAL (mm)	MEASURED (mm)
DIAMETER (arm+pad)	320.400	323.0
		310.2 330.6

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10116105

DATE/TIME PERFORMED: Wed Nov 3 14:33:05 2010

DAYS SINCE CAL: 28

UNIT #: 3885TF 004291

	VALUE	MULTIPLIER	ADD	SIZE (mm)
ARM	2368.0	0.10419	57.47083	304.2
PAD	1860.0	0.06350	-140.25879	-22.1

	ACTUAL (mm)	MEASURED (mm)
DIAMETER (arm+pad)	320.400	322.0
		310.2 330.6

ZDL PRIMARY CALIBRATION SUMMARY

TOOL: 2223XA 10116105

DATE/TIME PERFORMED: Fri Jun 18 10:44:48 2010

UNIT: 3885TF 004291

CALB BLKS: 2225XA 094290

CS SRC: 4705XA 18204b

PAD TYPE: PADTYP 7.5" PAD

	SS CS PK (Channel)	LS CS PK (Channel)	SS_BKGD (cps)	LS BKGD (cps)		
	224.8 220.0 230.0	224.8 220.0 230.0	1199.0	1550.1		
	SS (cps)	LS (cps)	SHR	DEN (kg/m3)	CORR (kg/m3)	PE (b/e)
MG (LO PE)	40959.5	14590.2	0.791 0.720 0.890	1697.000	0.000	1.900
AL	25596.0	1690.4		2657.000	-16.000	
AL + SHIM	33901.6	2893.0		2548.000	98.000	
MG + SHIM (HI PE)	20294.6	7011.1	0.306 0.280 0.360			8.550
RATIO AL + SHIM/AL	1.32 1.30 1.40	1.71 1.60 1.80				
RATIO MG/AL	1.60 1.58 1.70	8.63 8.55 9.55				

ZDL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10116105

DATE/TIME PERFORMED: Tue Nov 2 23:13:02 2010

DAYS SINCE CAL: 137

UNIT #: 3885TF 004291

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	3342.1 3332.1 3352.1	224.9 220.0 230.0	1440.7 1250.0 1550.0
SS	22354.8 22344.8 22364.8	224.2 220.0 230.0	1421.7 1250.0 1550.0
	LV (V)	PAD CURRENT (mA)	
	5.0 4.8 5.2	81.6 50.0 120.0	

ZDL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10116105

DATE/TIME PERFORMED: Wed Nov 3 14:23:46 2010

DAYS SINCE CAL: 138

UNIT #: 3885TF 004291

TOTAL (cps)	CSPK (Channel)	HV (V)
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LS	(ops)		(channel)		(V)	
	3342.1	224.9	1446.3			
	3332.1	3352.1	220.0	230.0	1250.0	1550.0
SS	22354.8	224.2	1431.7			
	22344.8	22364.8	220.0	230.0	1250.0	1550.0
LV		PAD CURRENT				
(V)		(mA)				
5.0		81.6				
4.8		50.0				
5.2		120.0				

CAL[2] PRIMARY CALIBRATION SUMMARY

TOOL #: 2223XA 10141929 DATE/TIME PERFORMED: Wed Oct 6 10:51:41 2010

UNIT #: 3885TF 004291

	SIZE (mm)	VALUE	MULTIPLIER	ADD
SMALL RING (Arm)	177.000	1131.2		
LARGE RING (Arm)	279.400	2106.0	0.10505	58.17064
PAD CLOSED		2228.0	0.06350	-141.47800

CAL[2] BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10141929 DATE/TIME PERFORMED: Tue Nov 2 23:14:34 2010 DAYS SINCE CAL: 27

UNIT #: 3885TF 004291

	VALUE	MULTIPLIER	ADD	SIZE (mm)
ARM	2156.0	0.10505	58.17064	284.7
PAD	2580.0	0.06350	-141.47800	22.4

	ACTUAL (mm)	MEASURED (mm)
DIAMETER (arm+pad)	320.400	319.0
		310.2 530.6

CAL[2] AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10141929 DATE/TIME PERFORMED: Wed Nov 3 14:36:27 2010 DAYS SINCE CAL: 28

UNIT #: 3885TF 004291

VALUE MULTIPLIER ADD SIZE

	VALUE	MULTIPLIER	ADD	UNIT
ARM	2180.0	0.10505	58.17064	(mm)
PAD	2770.0	0.06350	-141.47800	34.4

	ACTUAL (mm)	MEASURED (mm)
DIAMETER (arm+pad)	320.400	321.6
		310.2 330.6

ZDL[2] PRIMARY CALIBRATION SUMMARY

TOOL: 2223XA 10141929

DATE/TIME PERFORMED: Fri Jun 18 14:04:35 2010

UNIT: 3885TF 004291

CALB BLKS: 2225XA 094290

CS SRC: 4705XA 17723b

PAD TYPE: PADTYP 7.5" PAD

	SS CS PK (Channel)	LS CS PK (Channel)	SS_BKGD (cps)	LS BKGD (cps)		
	224.8	225.2	1222.6	1642.4		
	220.0 230.0	220.0 230.0				
	SS (cps)	LS (cps)	SHR	DEN (kg/m3)	CORR (kg/m3)	PE (b/e)
MG (LO PE)	40650.5	14815.3	0.777	1697.000	0.000	1.900
			0.720 0.890			
AL	25558.9	1674.2		2657.000	-16.000	
AL + SHIM	34234.6	2931.0		2548.000	98.000	
MG + SHIM (HI PE)	20027.7	7088.4	0.308			8.550
			0.280 0.360			
RATIO AL + SHIM/AL	1.34	1.75				
	1.30 1.40	1.60 1.80				
RATIO MG/AL	1.59	8.85				
	1.58 1.70	8.55 9.55				

ZDL[2] BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10141929

DATE/TIME PERFORMED: Tue Nov 2 23:13:20 2010

DAYS SINCE CAL: 137

UNIT #: 3885TF 004291

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	3343.0	224.9	1422.3
	3332.1 3352.1	220.0 230.0	1250.0 1550.0
SS	22360.5	224.2	1401.3
	22344.8 22364.8	220.0 230.0	1250.0 1550.0

LV

PAD CURRENT



(V)		(mA)	
	5.0		93.3
4.8	5.2	50.0	120.0

ZDL[2] AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10141929 DATE/TIME PERFORMED: Wed Nov 3 14:22:32 2010 DAYS SINCE CAL: 138

UNIT #: 3885TF 004291

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	3342.1	224.9	1427.7
	3332.1 3352.1	220.0 230.0	1250.0 1550.0
SS	22354.8	224.2	1405.3
	22344.8 22364.8	220.0 230.0	1250.0 1550.0
	LV (V)	PAD CURRENT (mA)	
	5.0	92.8	
	4.8 5.2	50.0 120.0	

 Baker Atlas	COMPANY NALCOR ENERGY INC. WELL NALCOR ET AL FINNEGAN #1 FIELD FINNEGAN PROVINCE NEWFOUNDLAND AND LABRADOR	FILE NO: _____ API NO: _____
	LOCATION: _____	ELEVATIONS: KB 125.00 M DF _____ GL 118.75 M
	LAT 49.920 N LONG 63.330 W	DATE 02-NOV-2010