



Baker Atlas

FILE NO:	COMPANY	VULCAN MINERALS INC.
API NO:	WELL	VULCAN INVESTCAN RED BROOK #2
	FIELD	BAY ST. GEORGE BASIN
	PROVINCE	NEWFOUNDLAND AND LABRADOR
Ver. 3.87	LOCATION:	
UID:		
N/A	BH LOC. LSD:	
LICENSE:	LAT	48.2679591667
ADW 2009-116-03-	LONG	-58.7501141667
PERMANENT DATUM	G.L.	ELEVATION
LOG MEASURED FROM	K.B.	6.3 M
DRILL MEAS. FROM	KELLY BUSHING	ABOVE P.D.
		OTHER SERVICES
		COMP
		HDIL-GR-CAL, CYL
		XMAC-GR, DSL
		STAR-ORIT-GR, FMT
		RCOR, VSP
	ELEVATIONS:	
	KB	63.4 M
	DF	
	GL	57.1 M

DATE	25-NOV-2009
RUN	2
TRIP	1
SERVICE ORDER	CA210569
DEPTH DRILLER	1965.0 M
DEPTH LOGGER	1962.2 M
BOTTOM LOGGED INTERVAL	1956.7 M
TOP LOGGED INTERVAL	885.0 M
CASING DRILLER	244.5 MM
CASING LOGGER	884.6 M
BIT SIZE	216.0 MM
TYPE OF FLUID IN HOLE	POLYMER
DENSITY	1260.0 G/L
VISCOSITY	80.0 S
PH	11.2
FLUID LOSS	4.8 ML
SOURCE OF SAMPLE	TOOL MEASURED
RM AT MEAS. TEMP.	0.30 OHMM
RM AT MEAS. TEMP.	23.4 DEGC
RM AT MEAS. TEMP.	0.24 OHMM
RM AT MEAS. TEMP.	23.4 DEGC
RMC AT MEAS. TEMP.	0.36 OHMM
RMC AT MEAS. TEMP.	23.4 DEGC
SOURCE OF RMF	CALCULATED
RMC	CALCULATED
RM AT BHT	0.30 OHMM
RM AT BHT	23.4 DEGC
TIME SINCE CIRCULATION	12.5 HOURS
MAX. RECORDED TEMP.	23.5 DEGC
EQUIP. NO.	EG655
LOCATION	OH NISKU
RECORDED BY	J. HOUSE / R. NEUPANE
WITNESSED BY	M. SMITH

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	220.2 M
311.0 MM	220.2 M	895.0 M
216.0 MM	895.0 M	1965.0 M

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
339.7 MM	71.4 KG/M	J-55	0.0 M	220.2 M
244.5 MM	64.7 KG/M	L-80	0.0 M	331.8 M
244.5 MM	53.6 KG/M	J-55	331.8 M	895.0 M
177.8 MM				

REMARKS

RUN 2 TRIP 1 : TIME STOPPED CIRCULATION: 25-NOV-2009 02:15

CNC IS ZDL CALIPER CORRECTED.
CNC AND PORZ RECORDED AND PRESENTED IN SANDSTONE MATRIX 2.65G/CM3.
CNC IS CORRECTED FOR 311MM BIT SIZE BEHIND CASING FROM 220.2 M TO SURFACE

HIGH RESOLUTION PASS PRESENTED ABOVE CAL/VER SECTION.

RIG: STONEHAM #11

CREW: J. HOUSE, R. NEUPANE, D. SCHNEIDER, A. MITTELSTADT,
L. HICKS, J. ESCHNER, M. MONGER

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
2	1	SWIVEL	3944XA	73677	FREE
2	1	ISO SUB	4488XA	10141562	FREE
2	1	TTMA SUB	3980XA	10091959	FREE
2	1	COMM/POWER	3518FB	10118929	DECENTRALIZED
2	1	COMM/GR	3518EB	10395627	DECENTRALIZED
2	1	FOCUS CN	2436XA	10394243	DECENTRALIZED
2	1	FOCUS ZDEN	2223XA	10116105	PAD_DEVICE
2	1	DBL KNCKL	3931XA	10455333	FREE
2	1	HDIL	1530XA	10132721	CENTRALIZED

INSTRUMENT CONFIGURATION

Source File: /dat1a/pass/vulcan/k970a~VUL-tdg

FOCUS CABLEHEAD

Series : CABL318
Mnemonic : CBLH
Diameter : 3.12"
Weight : 6.8 kg

FOCUS SHORT ISOLATION SUB, 10 PIN F/T

Series : 4488XA
Mnemonic : ISSB

FOCUS TEN/TEMP/MUD RES/ACCEL

Series : 3980XA
Mnemonic : TTMA
Diameter : 3.13"
Weight : 27.7 kg
Length : 131.4 cm
Temp Rating : 127 deg. C
Press Rating : 703 kg/cm2

FOCUS TELEMETRY (POWER SECTION)

Series : 3518FB
Mnemonic : TMGR
Diameter : 3.13"
Weight : 21.8 kg
Length : 113.1 cm

FOCUS EB/EG TELEMETRY GAMMA RAY

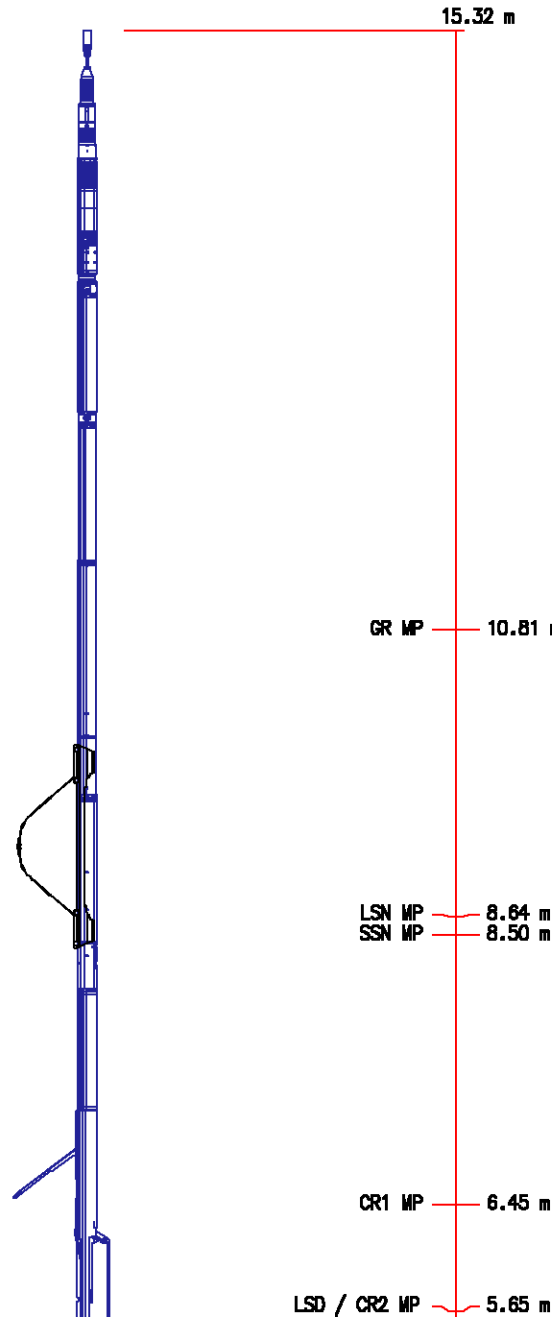
Series : 3518EG
Mnemonic : GR
Diameter : 3.12"
Weight : 28.6 kg
Length : 177.8 cm
Measure Point: 129.2 cm: GR MP
Temp Rating : 127 deg. C
Press Rating : 703 kg/cm2

FOCUS COMPENSATED NEUTRON

Series : 2436XA
Mnemonic : CN
Diameter : 3.13"
Weight : 29.5 kg
Length : 148.7 cm
Source Type : AM241BE
Strength : 18.0 curies
Measure Point: 58.4 cm: LSN MP

FOCUS Z-DENS LOG

Series : 2223XA
Mnemonic : ZDL
Diameter : 3.75"
Weight : 90.9 kg
Length : 292.1 cm
Source Type : CS137
Strength : 2.0 curies
Measure Point: 132.1 cm: CR1 MP
Measure Point: 51.4 cm: LSD / CR2 MP
Measure Point: 39.4 cm: SSD MP
Temp Rating : 127 deg. C



Press Rating : 703 kg/cm2

FOCUS KNUCKLE JOINT

Series : 3930XA

FOCUS KNUCKLE JOINT

Series : 3930XA

FOCUS HIGH DEFINITION INDUCTION TOOL

Series : 1530XA
 Mnemonic : HDIL
 Diameter : 3.13"
 Weight : 52.3 kg
 Length : 408.4 cm
 Measure Point: 218.6 cm: COIL 5 MP
 Measure Point: 172.9 cm: COIL 4 MP
 Measure Point: 127.2 cm: COIL 3 MP
 Measure Point: 111.9 cm: COIL 2 MP
 Measure Point: 96.7 cm: COIL 1 MP
 Measure Point: 81.5 cm: COIL 0 MP
 Measure Point: 34.7 cm: SP MP
 Temp Rating : 127 deg. C
 Press Rating : 703 kg/cm2

FOCUS PINEAPPLE / CABBAGE

TOTAL LENGTH: 15.32 m
 TOTAL WEIGHT: 324.5 kg
 MAX DIAMETER: 0'6.13"



SSD MP 5.52 m
 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

MAIN LOG - UPPER PRESENTATION

ECLIPS 6.0i Feb 21, 2008
 Updates: 1,40,43

Wed Nov 25 18:27:38 2009

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/vulcan/k970a03.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 796.816 m BOTTOM DEPTH: 1967.491 m

SYMMETRIC FILTER

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

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
BIT SIZE	BIT SIZE	216.000	mm	TOP	BOTTOM

ACCELERATION PROCESSING

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

CURVE DESCRIPTION REPORT

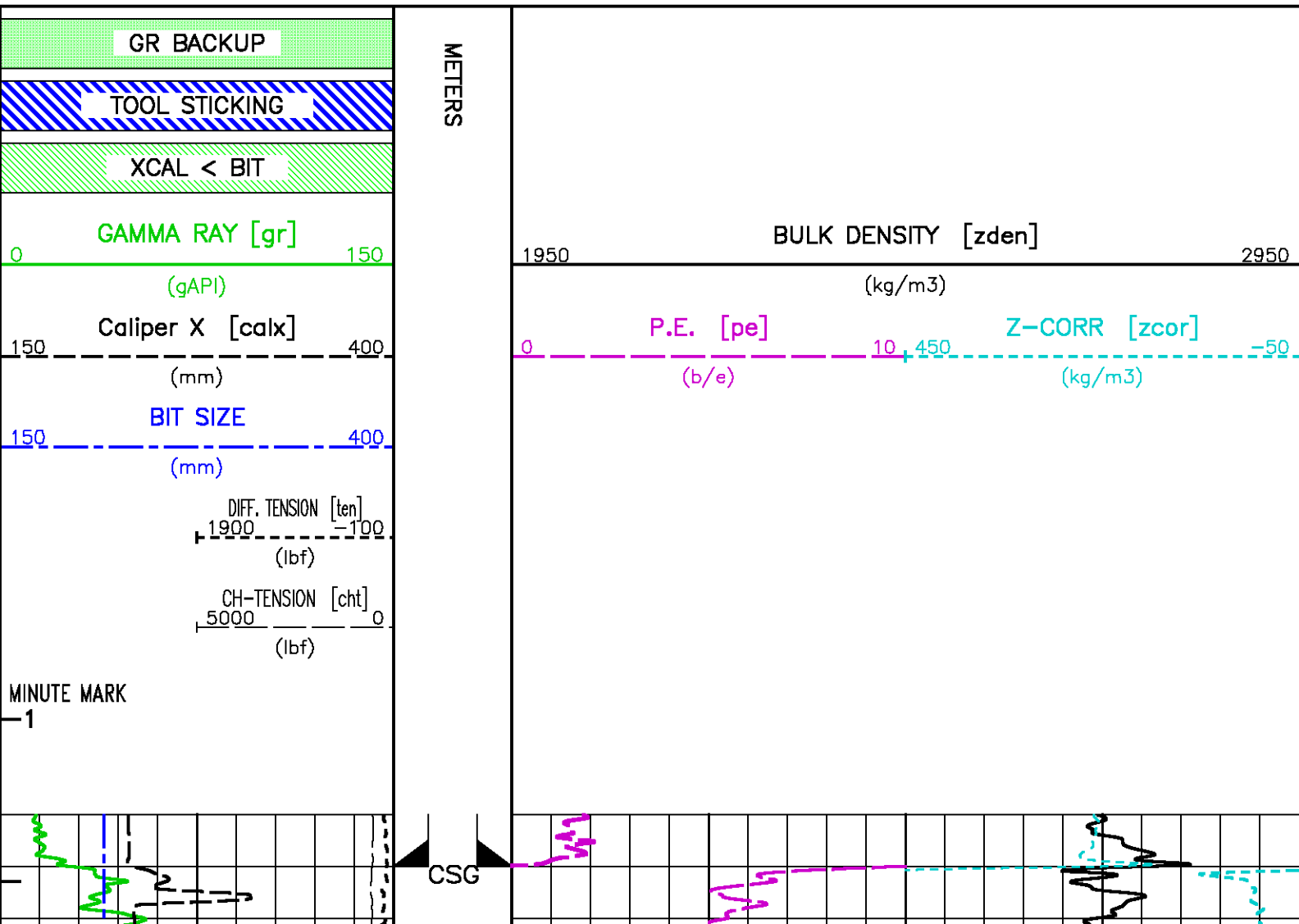
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
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F1:CALX	CALX	Nov 25 13:16:58 2009	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Nov 25 13:16:58 2009	CABLE HEAD TENSION
F1:GR	GR	Nov 25 13:16:58 2009	GAMMA RAY
F1:MMRK	MMRK	Nov 25 13:16:58 2009	MINUTE MARK
F1:PE	PE	Nov 25 13:16:58 2009	PHOTO ELECTRIC CROSS-SECTION
F1:TEN	TEN	Nov 25 13:16:58 2009	DIFFERENTIAL TENSION
F1:ZCOR	ZCOR	Nov 25 13:16:58 2009	DENSITY CORRECTION
F1:ZDEN	ZDEN	Nov 25 13:16:58 2009	FORMATION BULK DENSITY

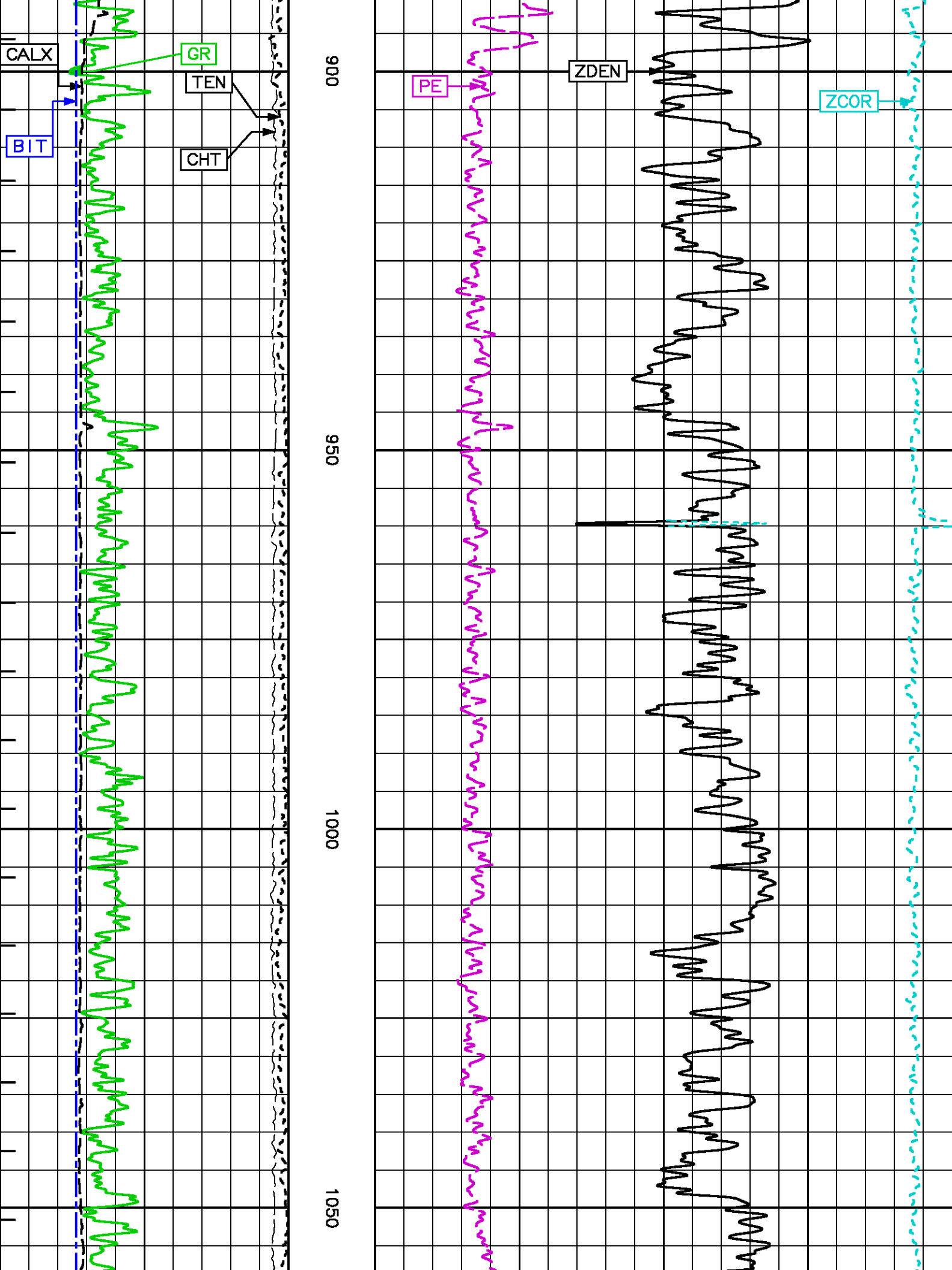
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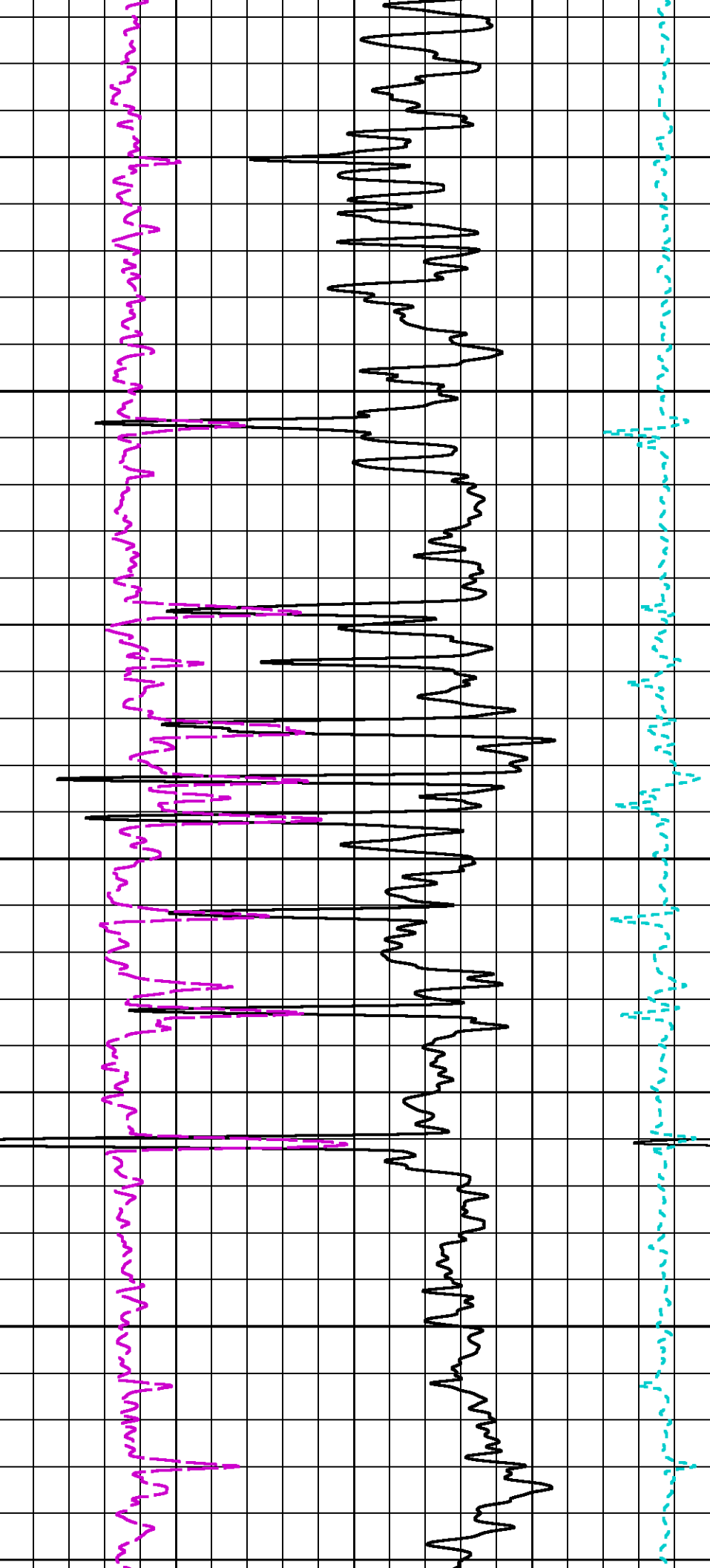
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CALX	5.49	GR	10.67	TEN	0.00	ZDEN	5.49

Presentation : cpu1:/dat1a/pass/vulcan/fzdl_upper.pdf [1:600 Scale]
Plot Interval : 880 - 1990 Meters

Data File 1 : F1 : cpu1:/dat1a/pass/vulcan/main.xtf
Created On : Nov 25 13:16:58 2009
Company : VULCAN MINERALS INC.
Well : VULCAN INVESTCAN RED BROOK #2
Field : RED BROOK
File Interval : 789.889 - 1968.93 Meters
Oct : k970a



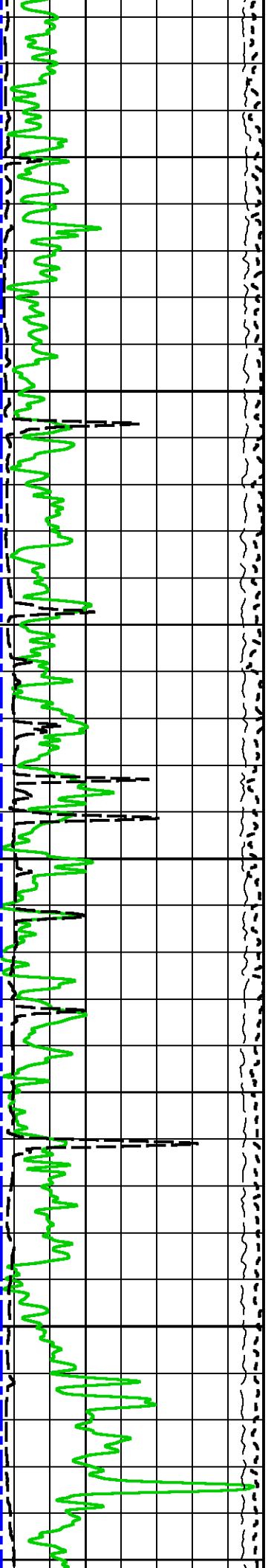


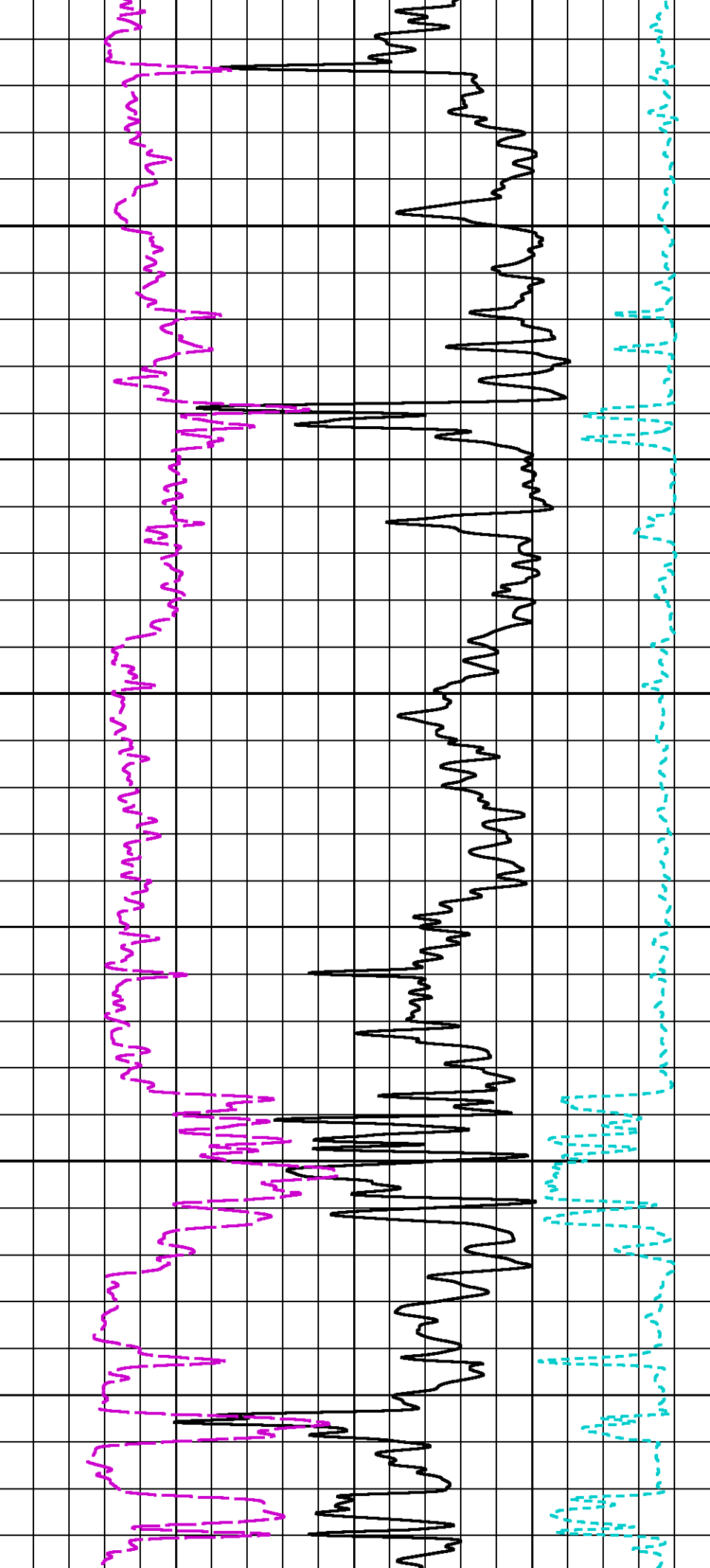


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1150

1200

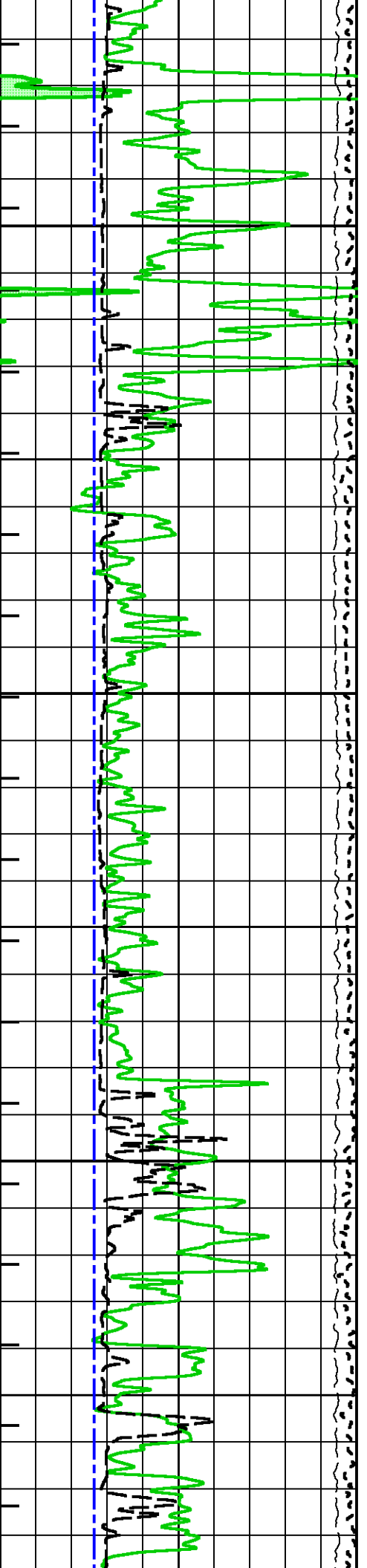


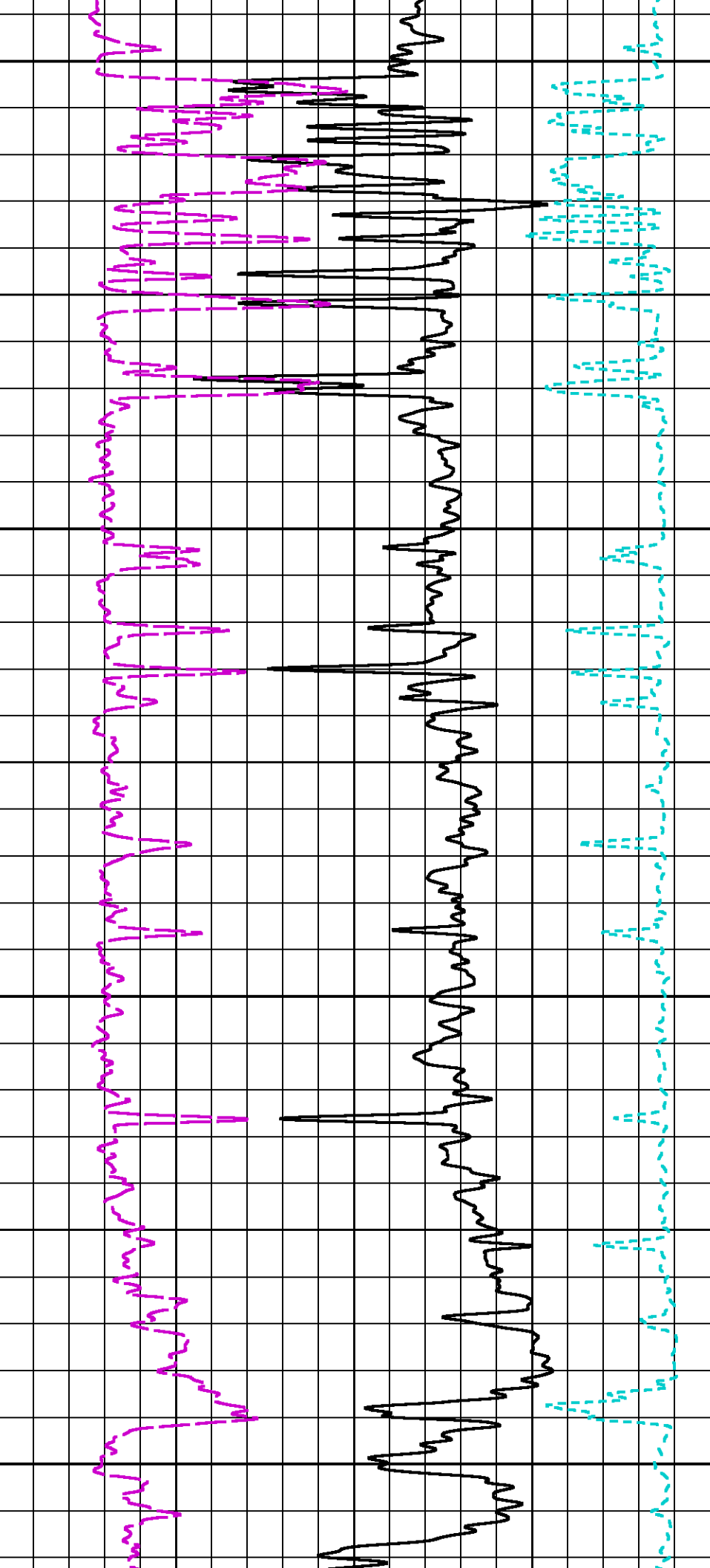


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1300

1350



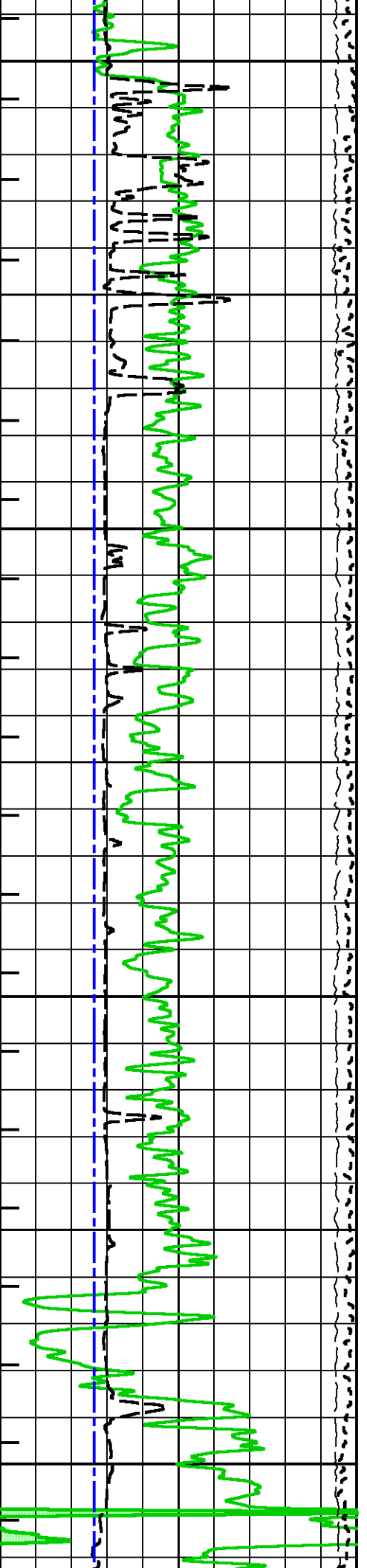


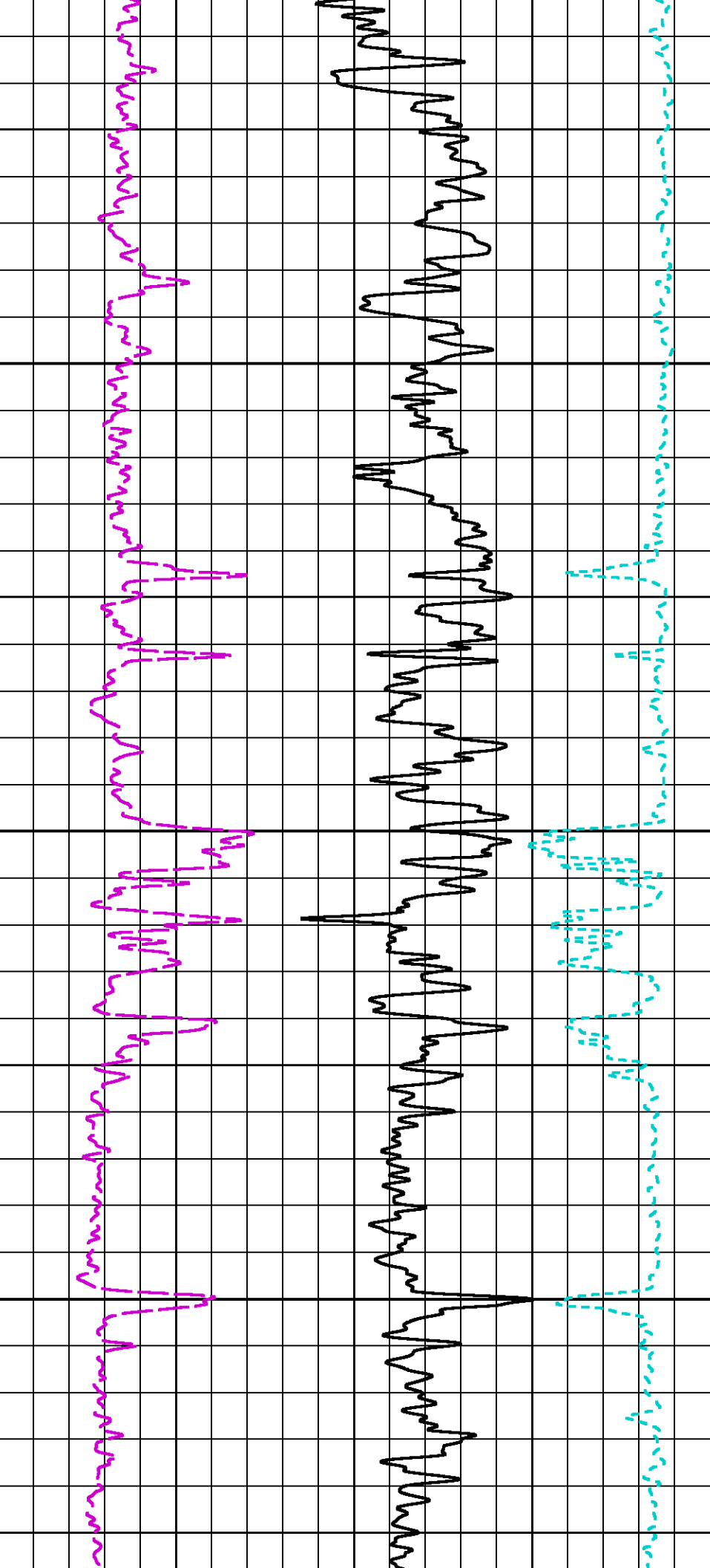
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1450

1500

1550

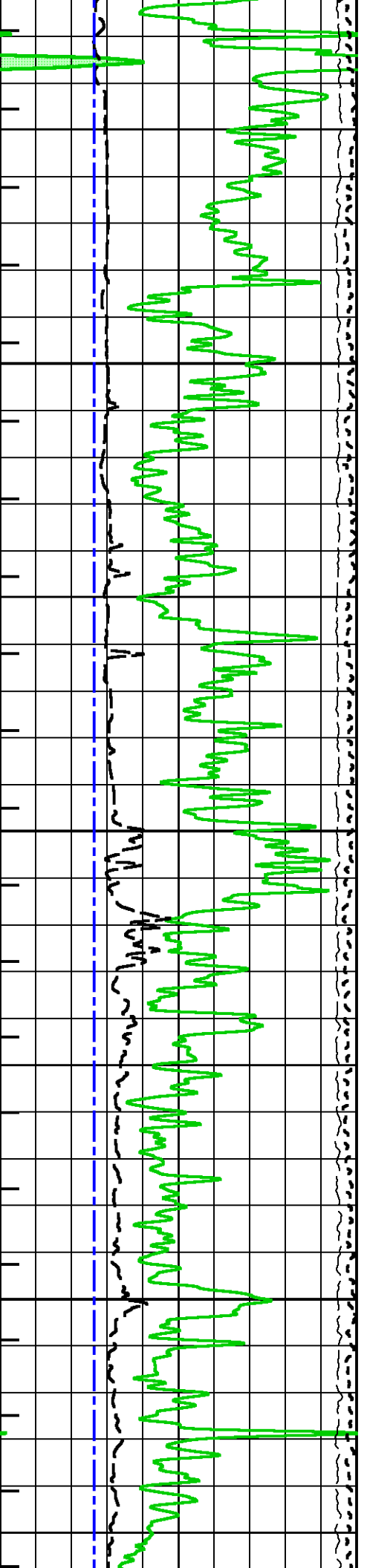


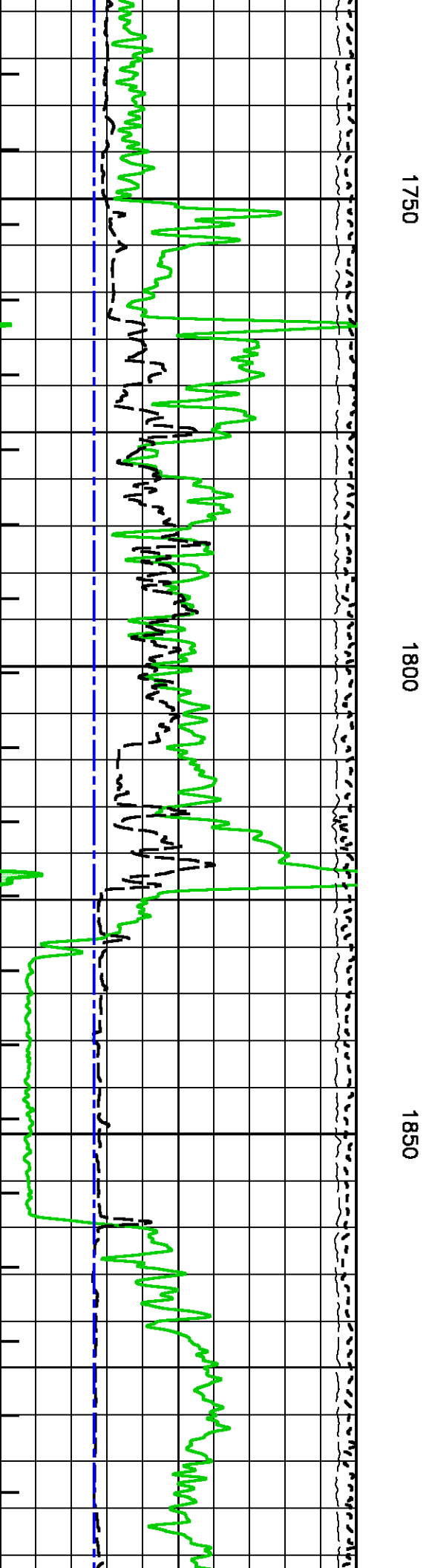
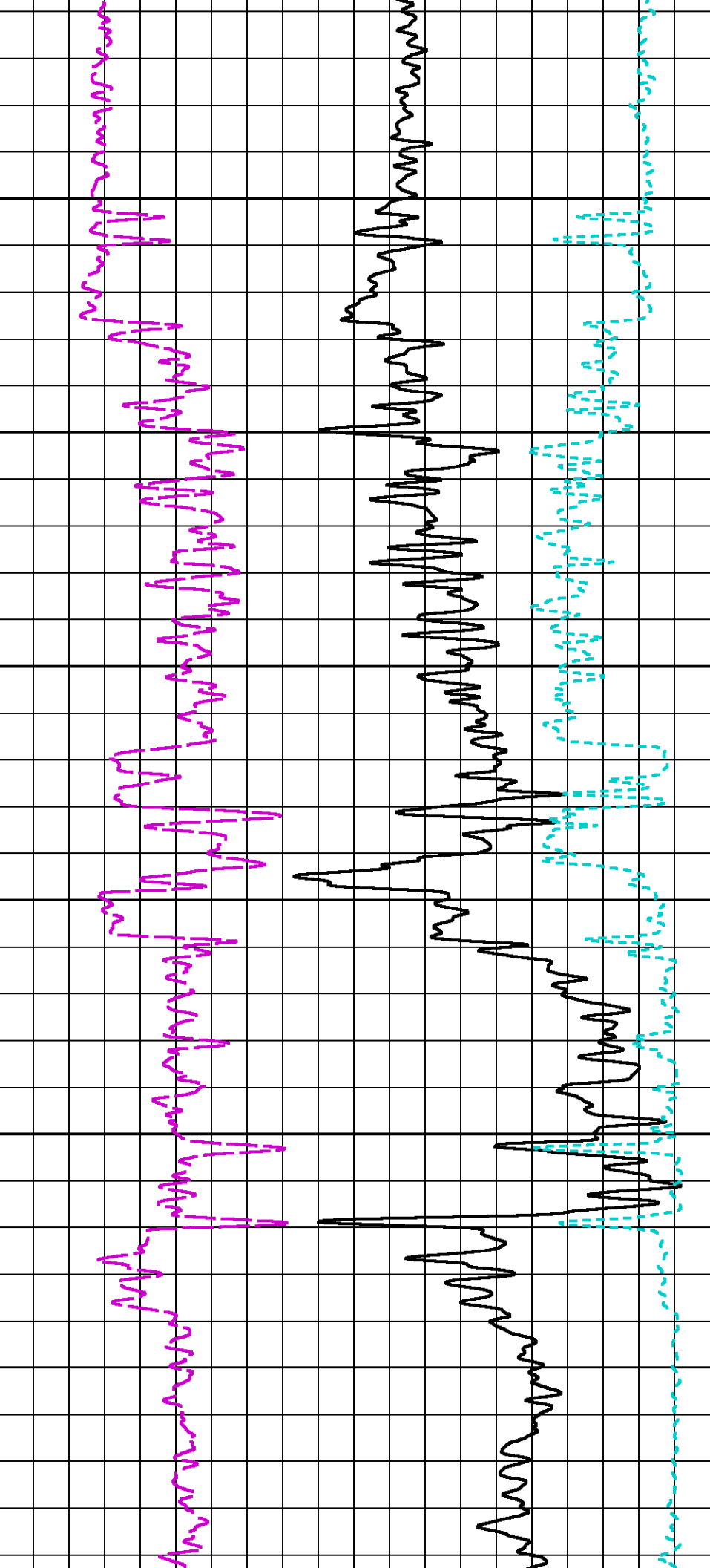


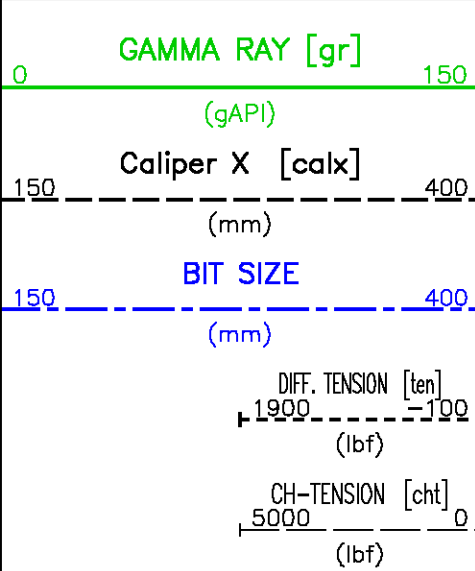
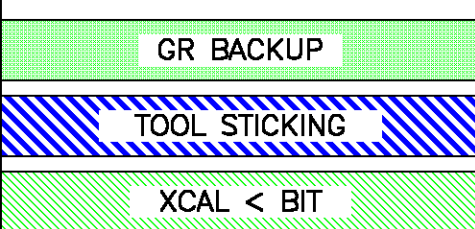
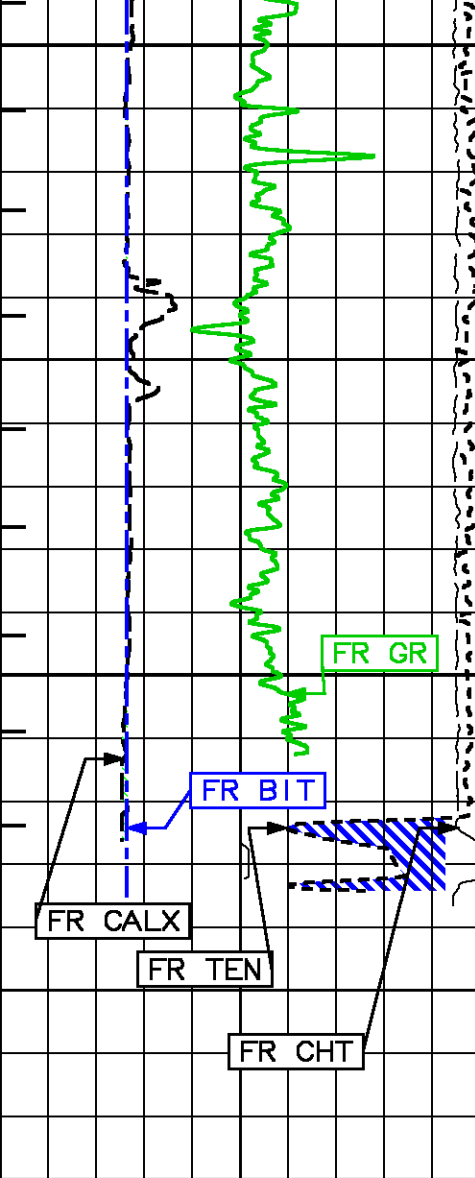
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1650

1700







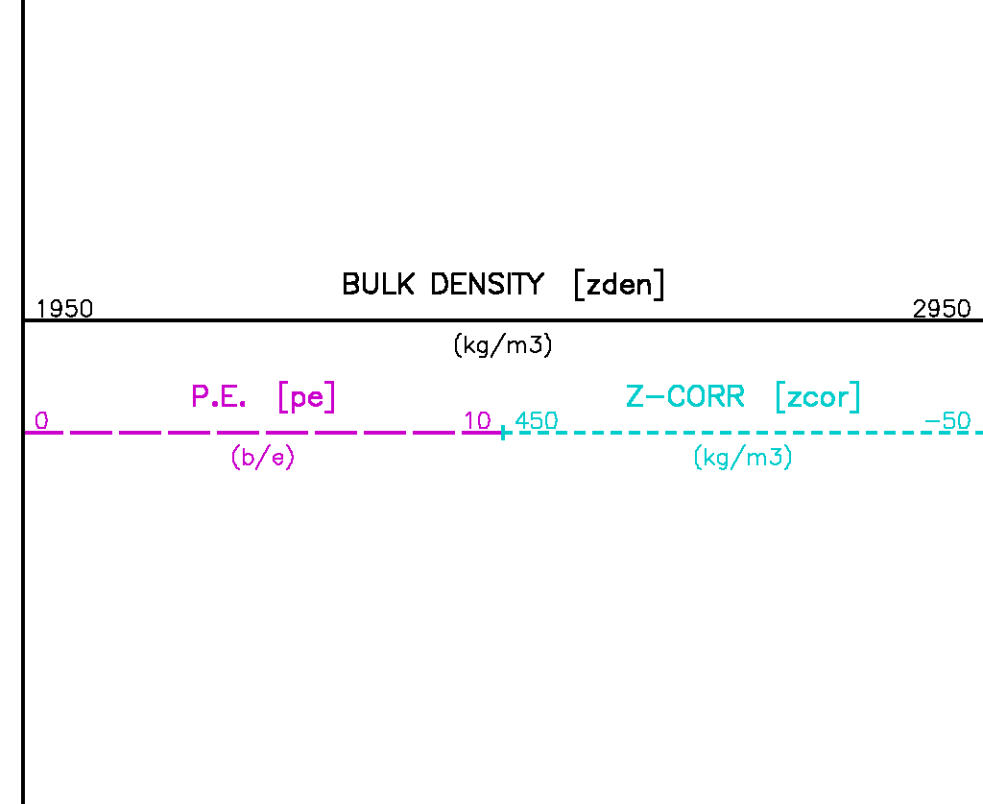
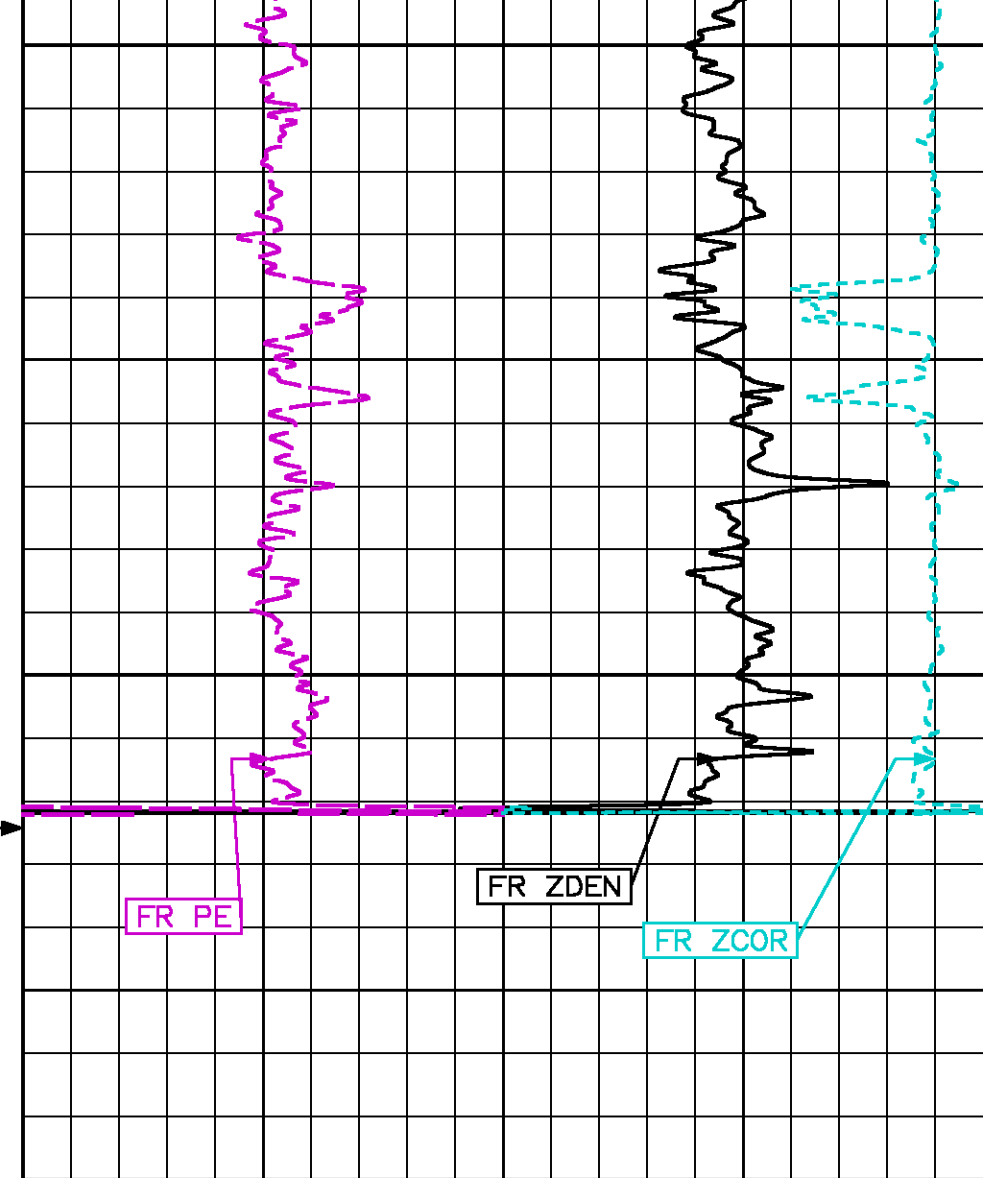
MINUTE MARK
1

1900

1950

TD

METERS



MAIN LOG - SANDSTONE MATRIX

ECLIPS 6.0i Feb 21, 2008
Updates: 1,40,43

Wed Nov 25 17:23:55 2009

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

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LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 796.816 m BOTTOM DEPTH: 1967.491 m

SYMMETRIC FILTER

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

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	0.000	mm	TOP	BOTTOM
	CASING THICKNESS	0.000	mm	"	"
BIT SIZE	BIT SIZE	216.000	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	216.000	mm	"	"

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	ON		TOP	878.662
		OFF		878.662	879.881
	BIT SIZE BEHIND CSNG	311.000	mm	TOP	879.881
		200.025	mm	879.881	BOTTOM

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DENSITY POROSITY	RHOfluid	1.000	g/cm3	TOP	BOTTOM
	RHOmatrix (sand)	2.650	g/cm3	"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
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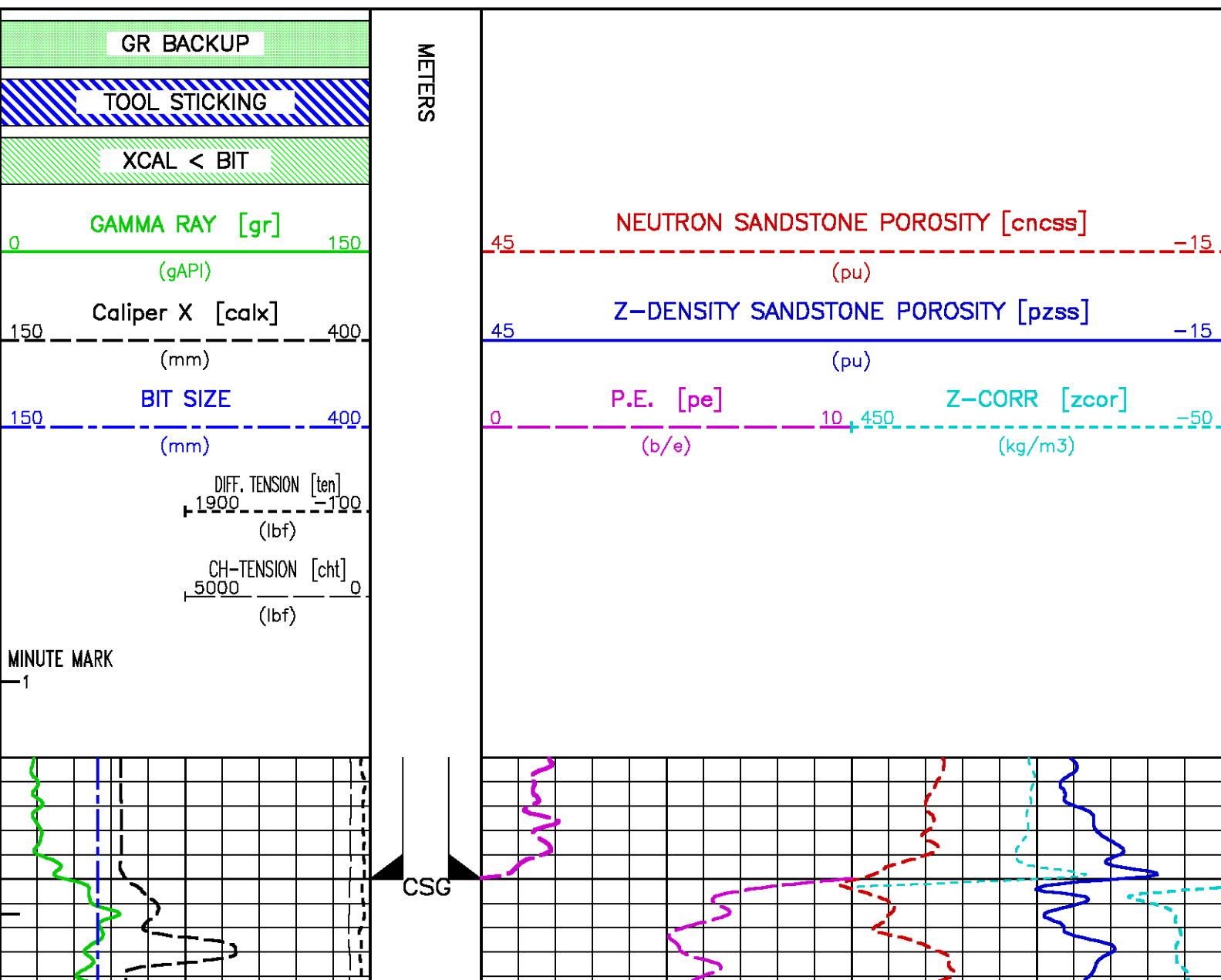
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F1:CALX	CALX	Nov 25 13:16:58 2009	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Nov 25 13:16:58 2009	CABLE HEAD TENSION
F1:CNCSS	CNCSS	Nov 25 13:16:58 2009	BH SIZE CORR. SANDSTONE COMPENSATED NEUTRON POROSITY
F1:GR	GR	Nov 25 13:16:58 2009	GAMMA RAY
F1:MMRK	MMRK	Nov 25 13:16:58 2009	MINUTE MARK
F1:PE	PE	Nov 25 13:16:58 2009	PHOTO ELECTRIC CROSS-SECTION
F1:PZSS	PZSS	Nov 25 13:16:58 2009	POROSITY FOR SANDSTONE MATRIX
F1:TEN	TEN	Nov 25 13:16:58 2009	DIFFERENTIAL TENSION
F1:ZCOR	ZCOR	Nov 25 13:16:58 2009	DENSITY CORRECTION

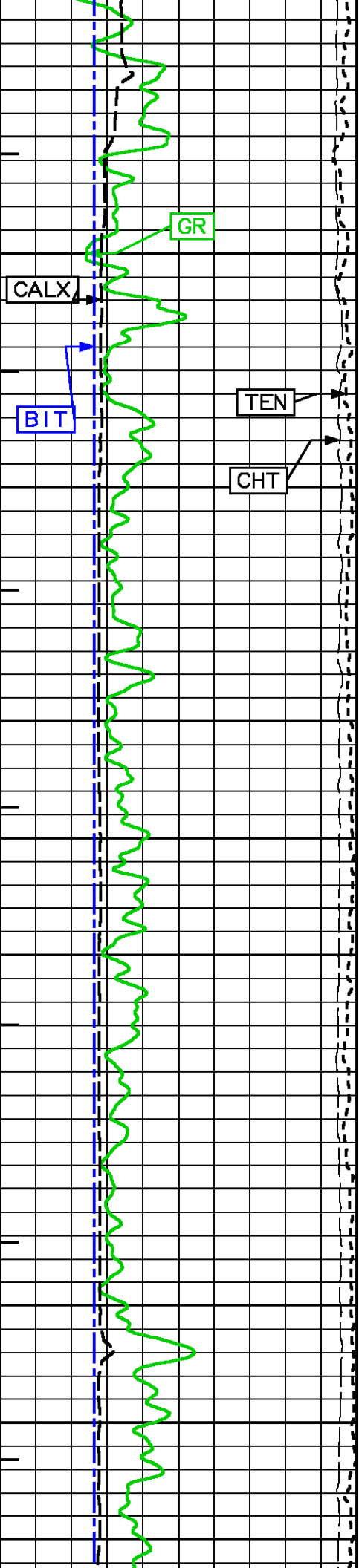
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CNCSS	8.34	PZSS	5.49		
CALX	5.49	GR	10.67	TEN	0.00		
CHT	0.00	PE	5.49	ZCOR	5.49		

Presentation : cpu1:/dat1a/pass/vulcan/fzdl_main_ss.pdf [1:240 Scale]
Plot Interval : 880 - 1968.93 Meters

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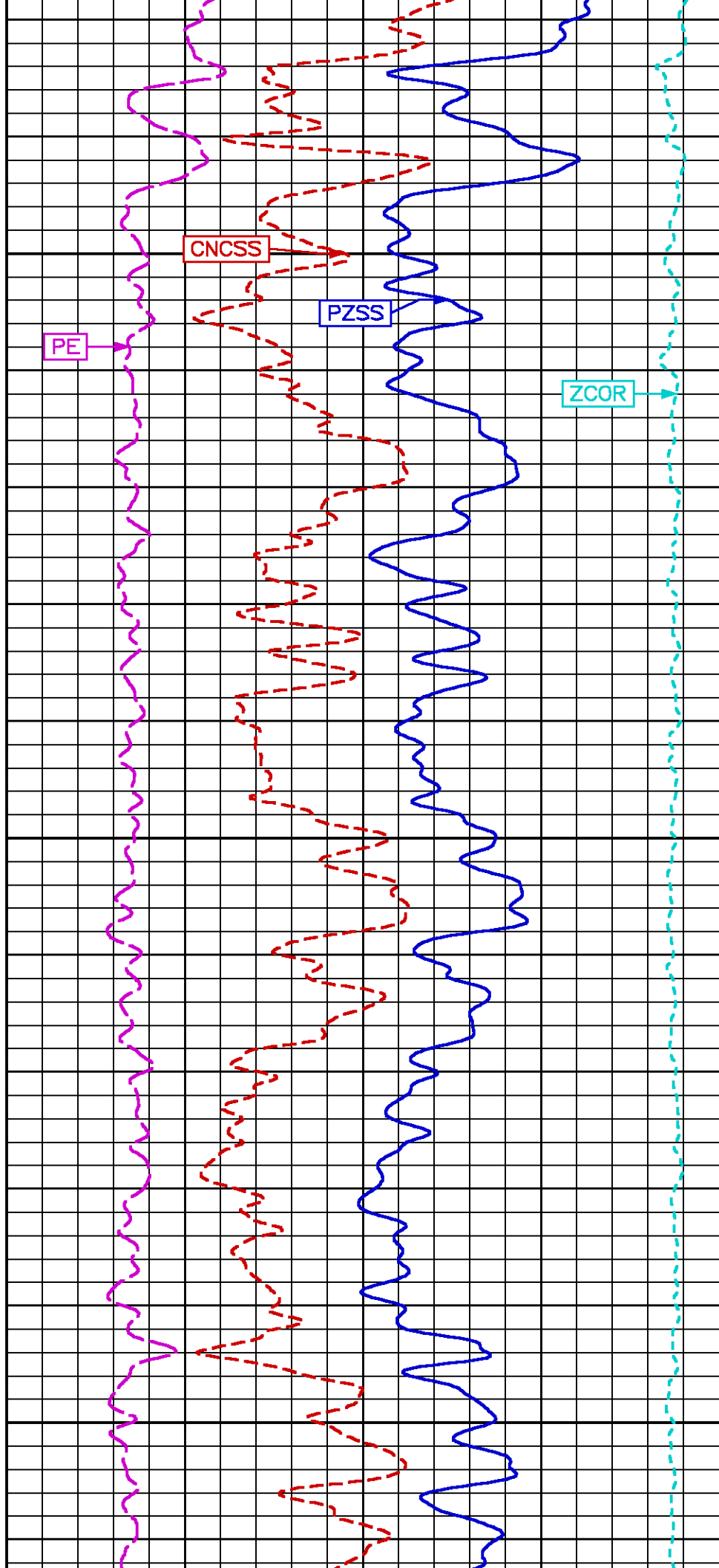


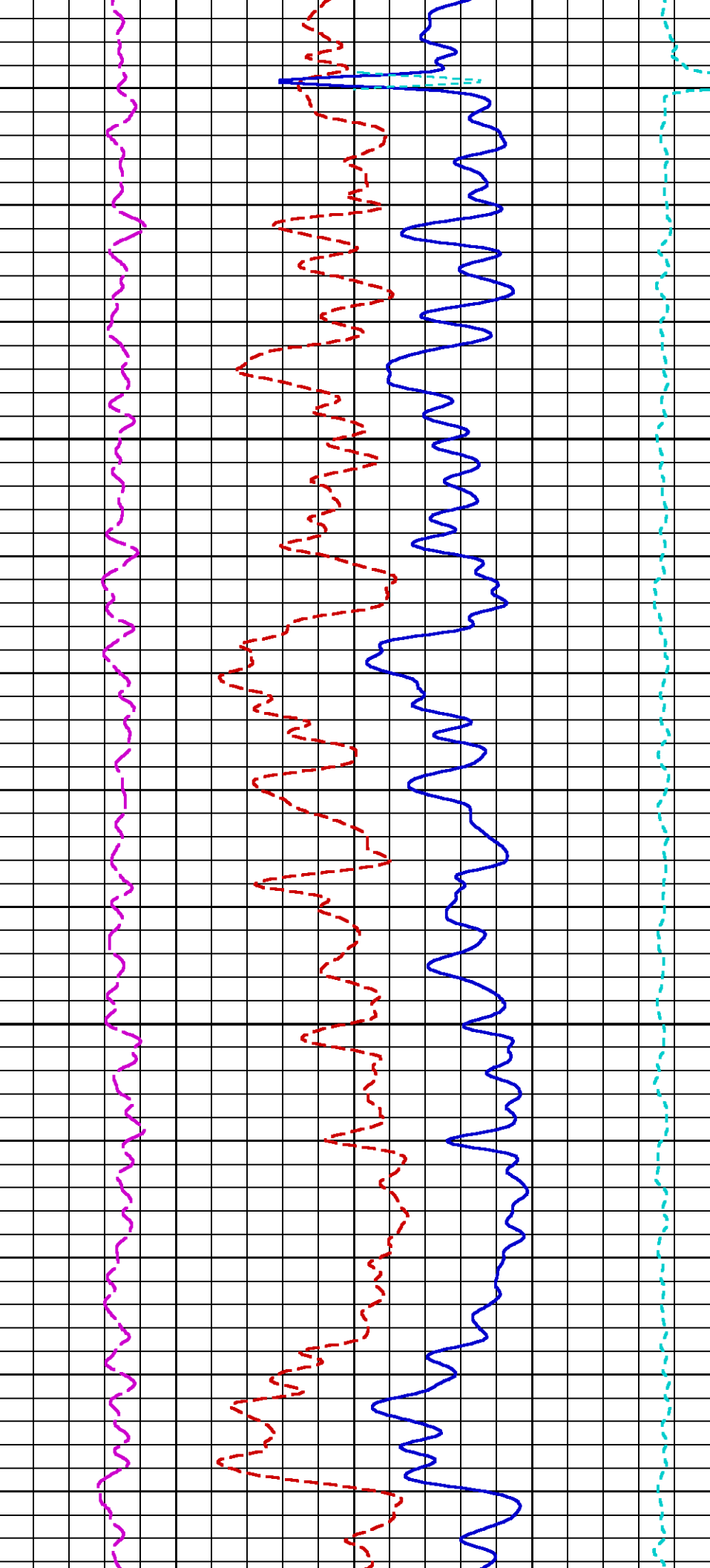


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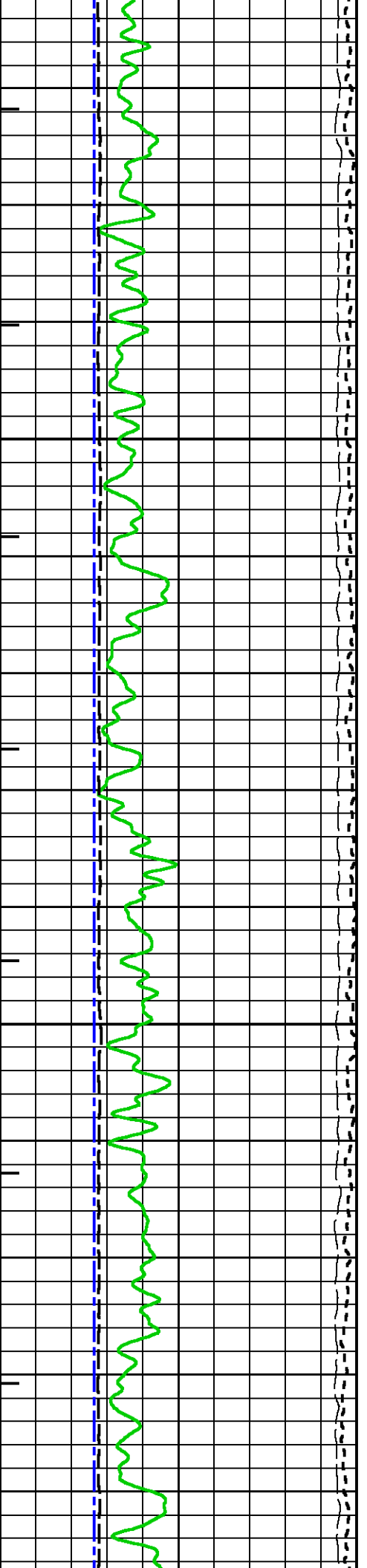
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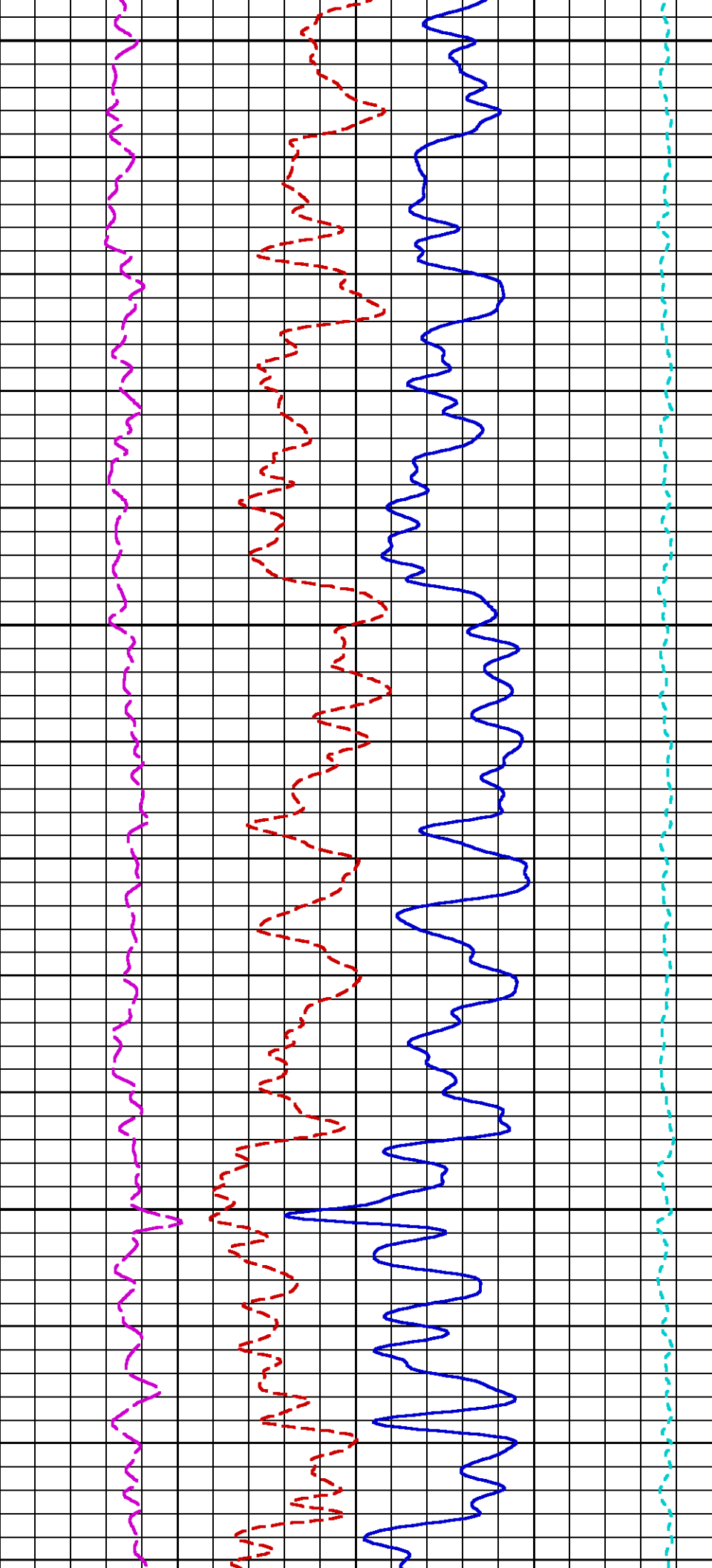




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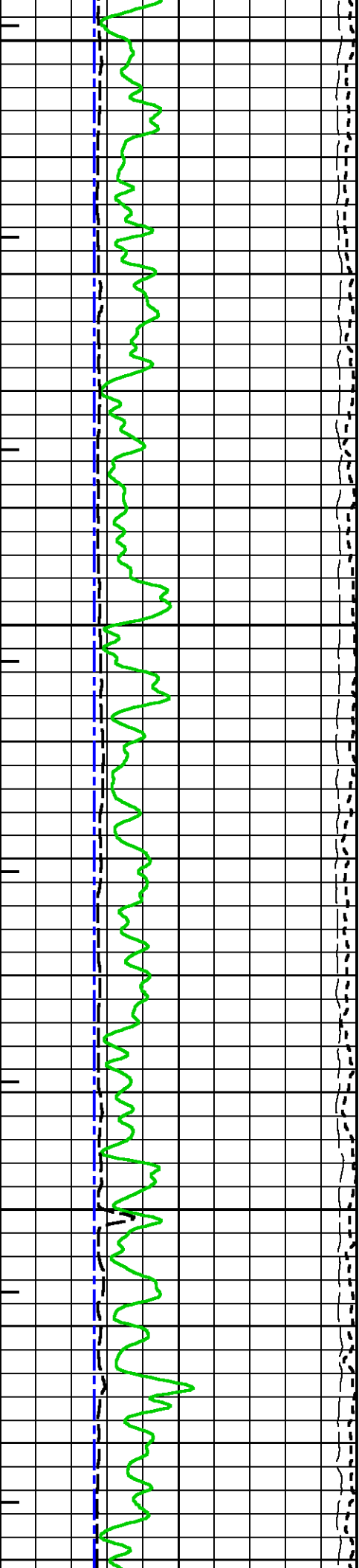


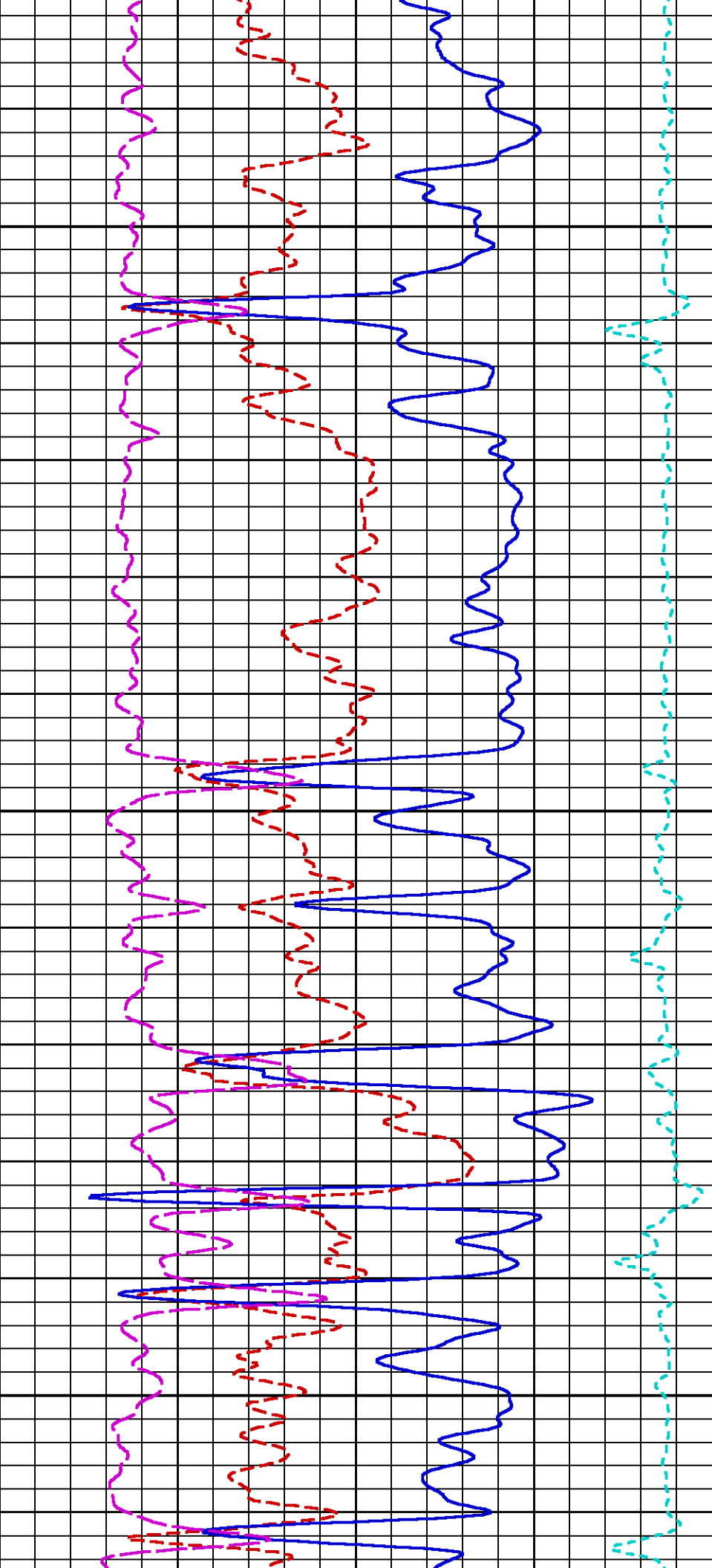


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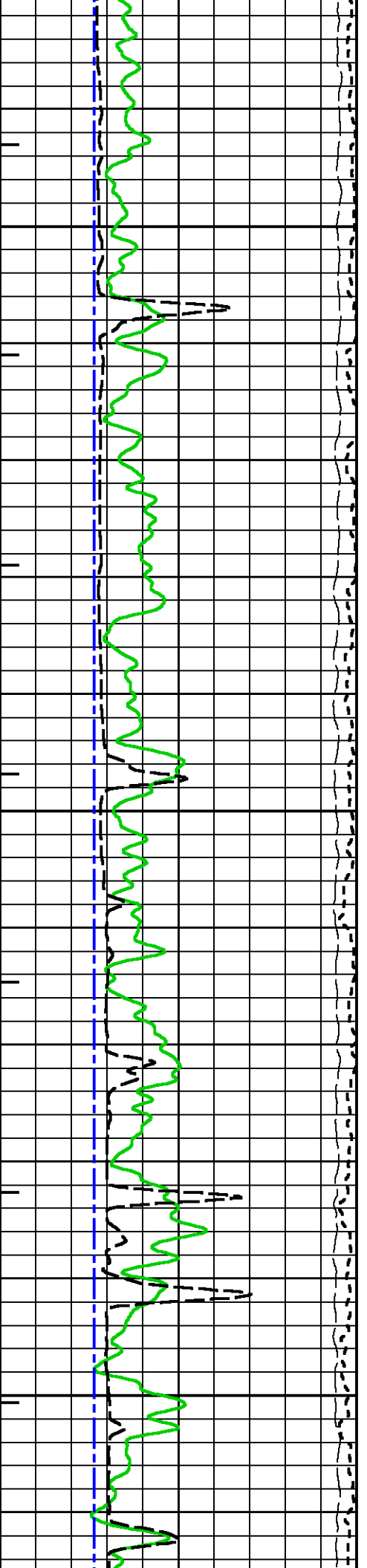


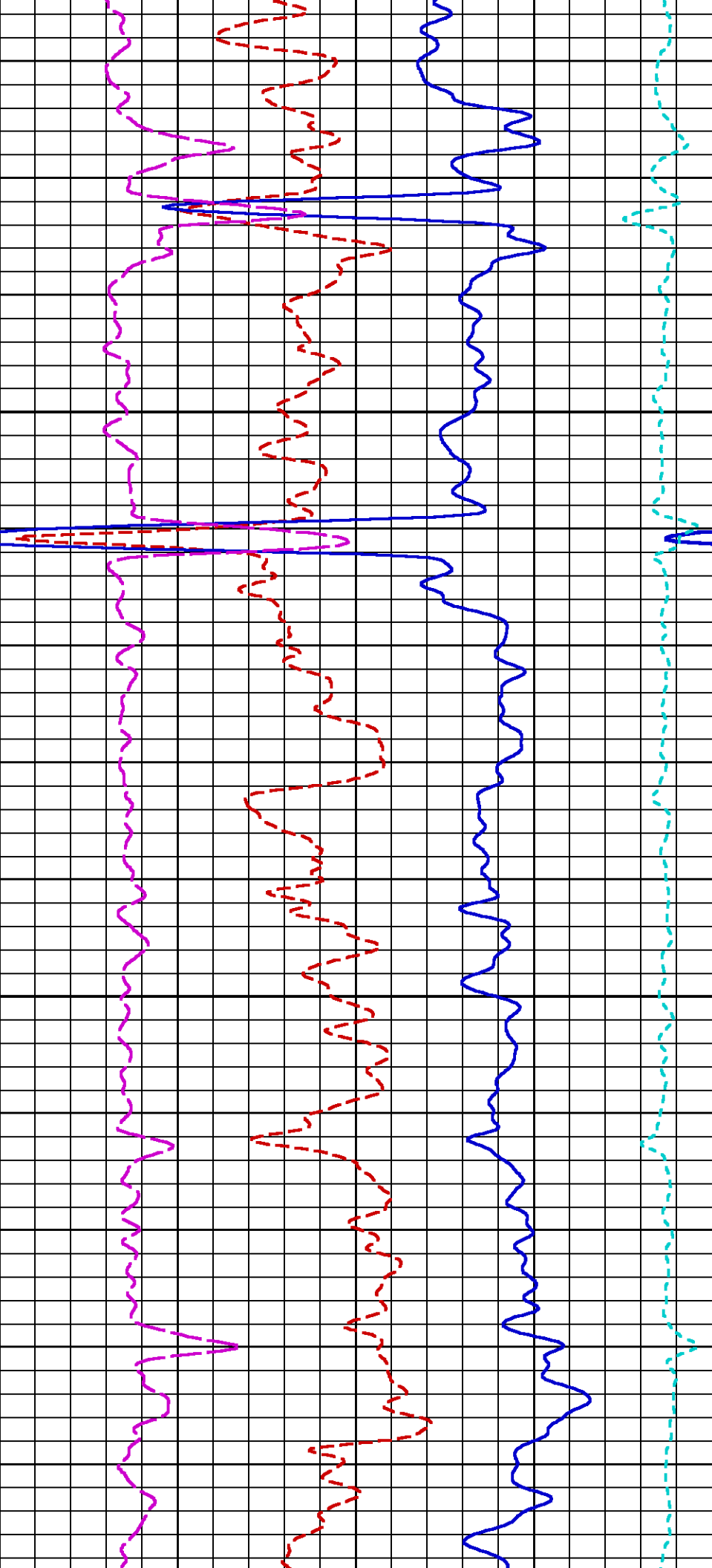


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1150

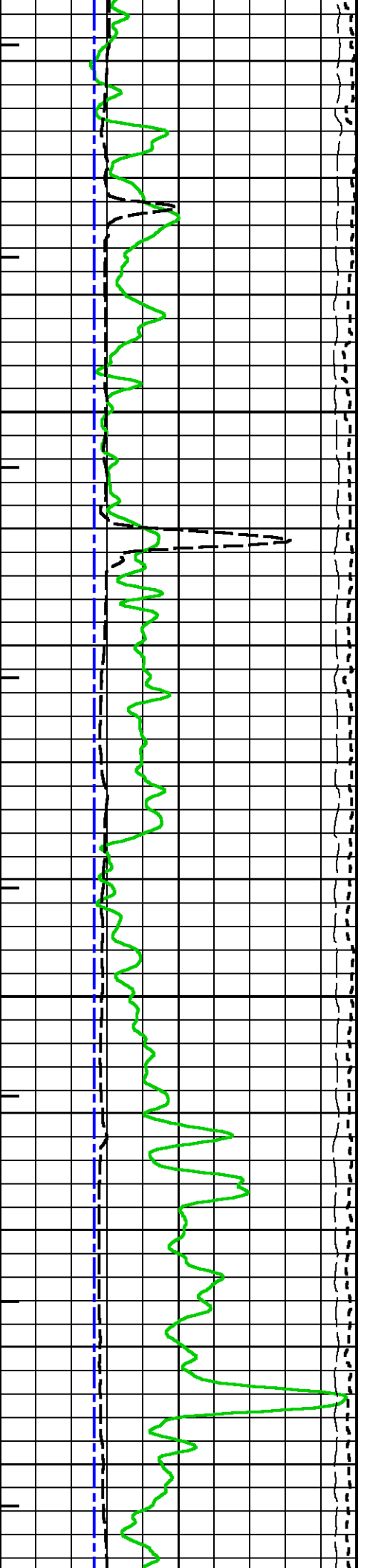


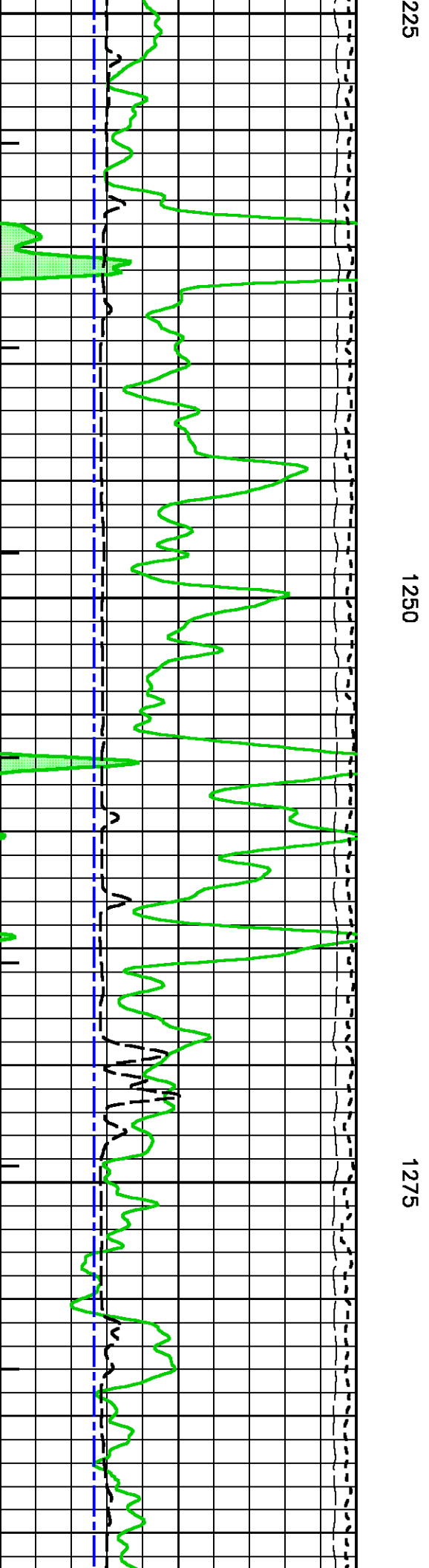
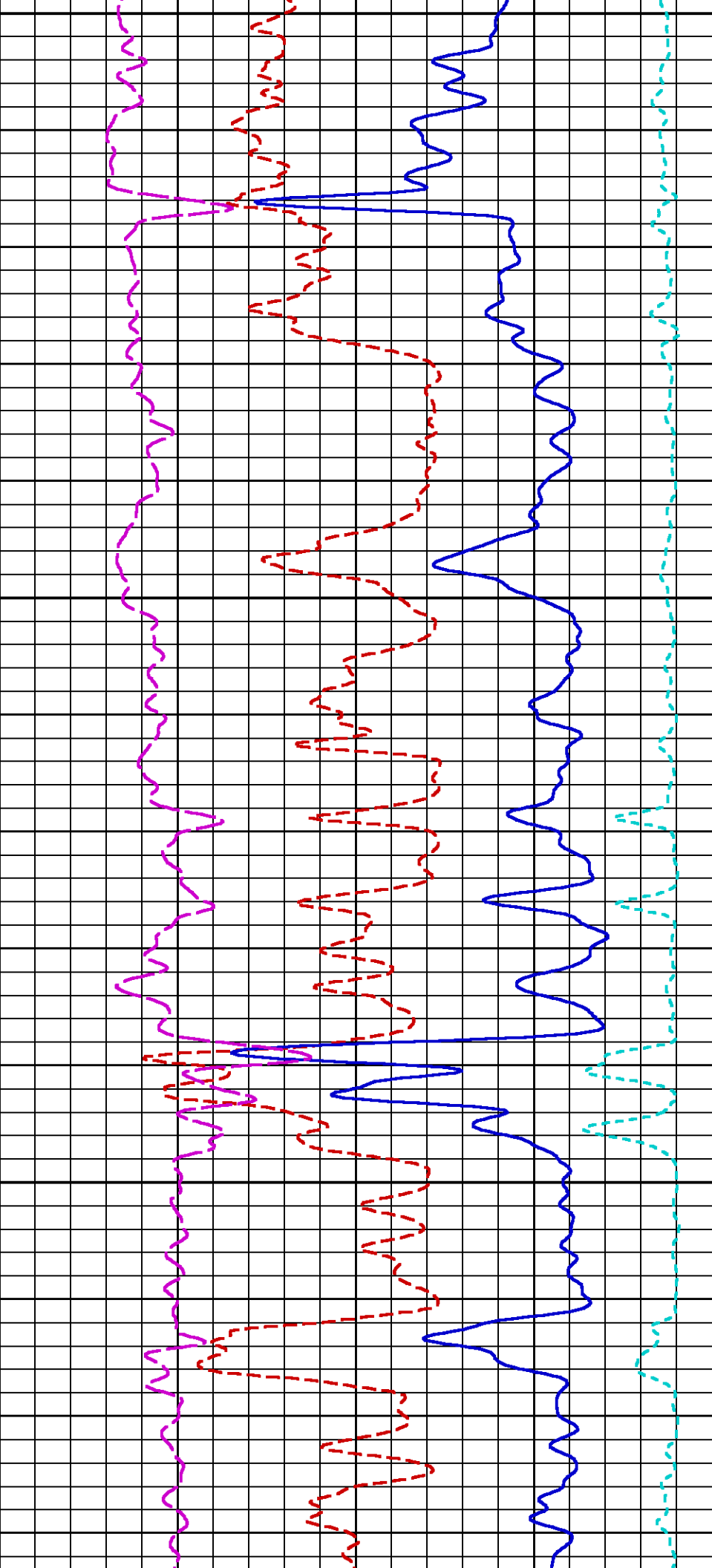


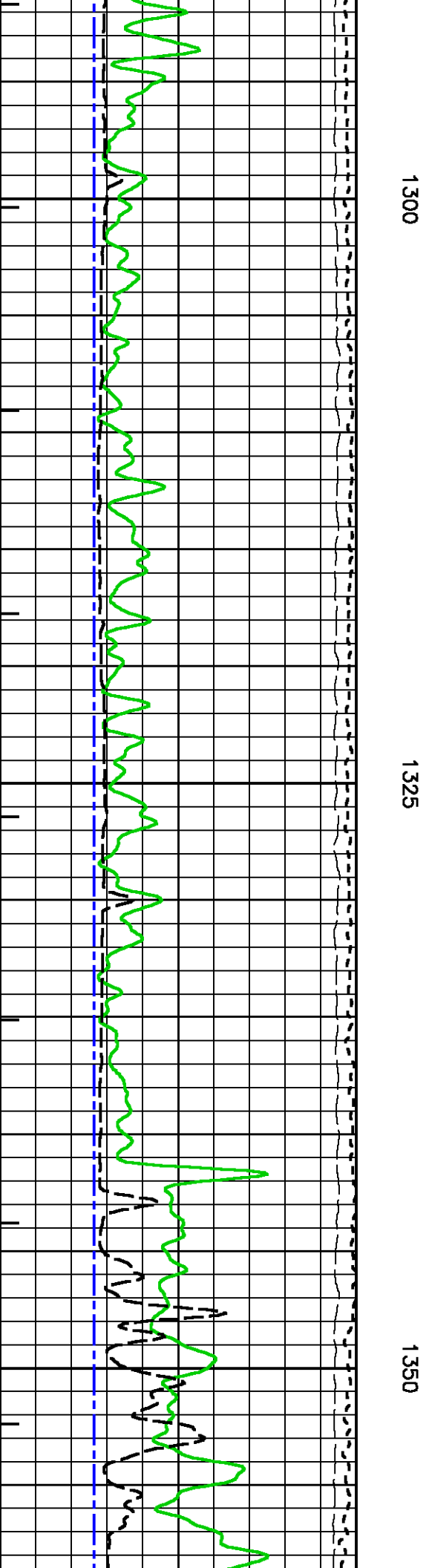
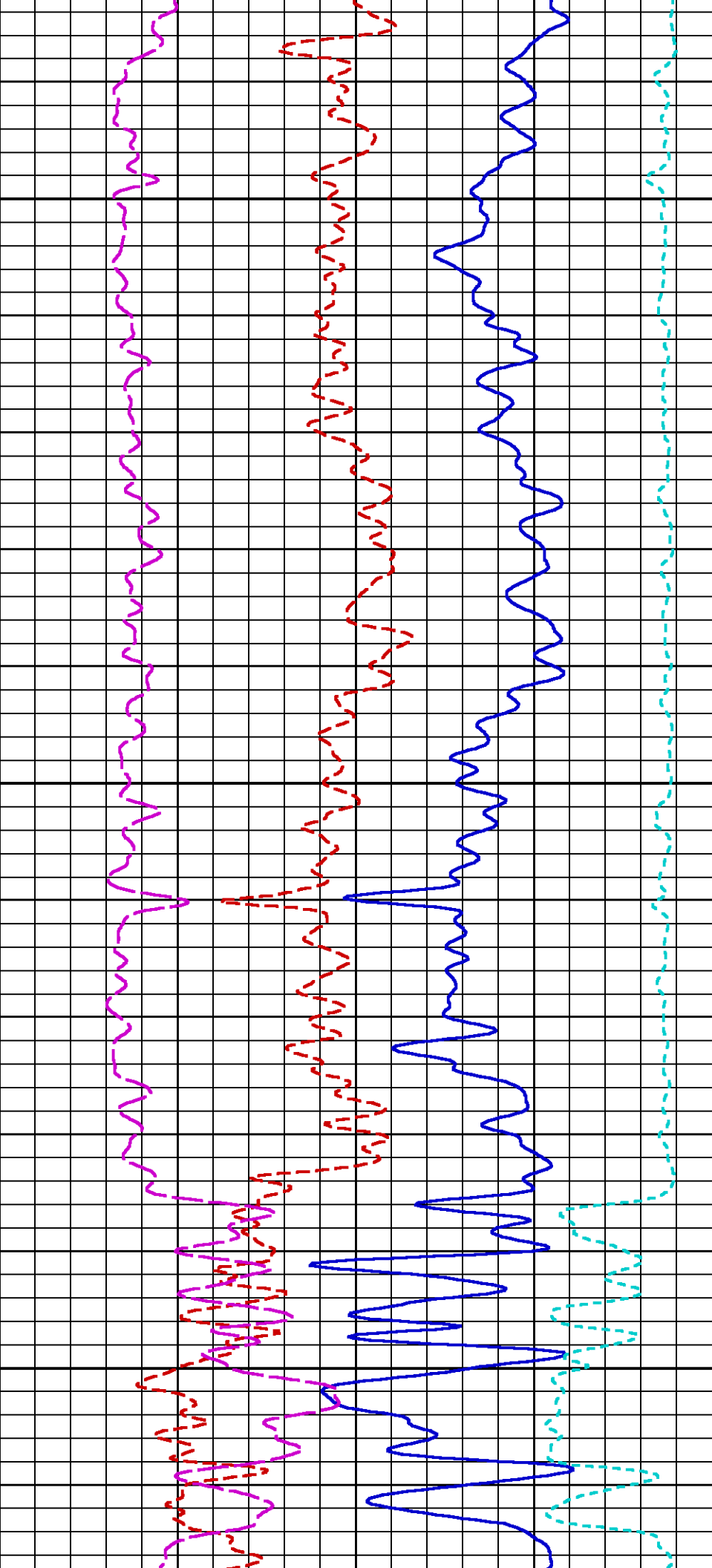
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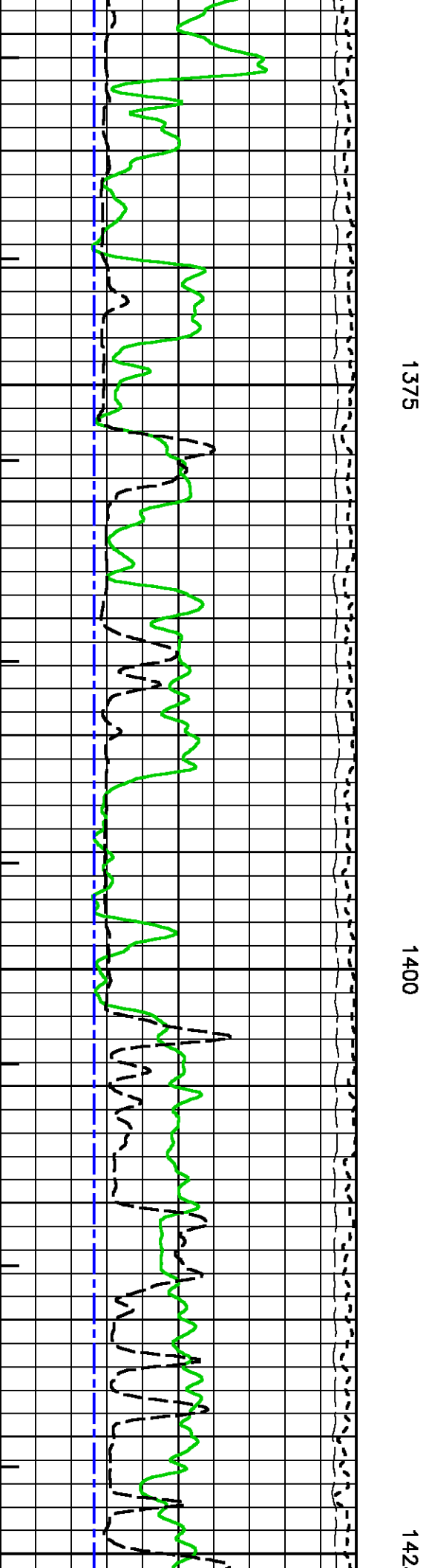
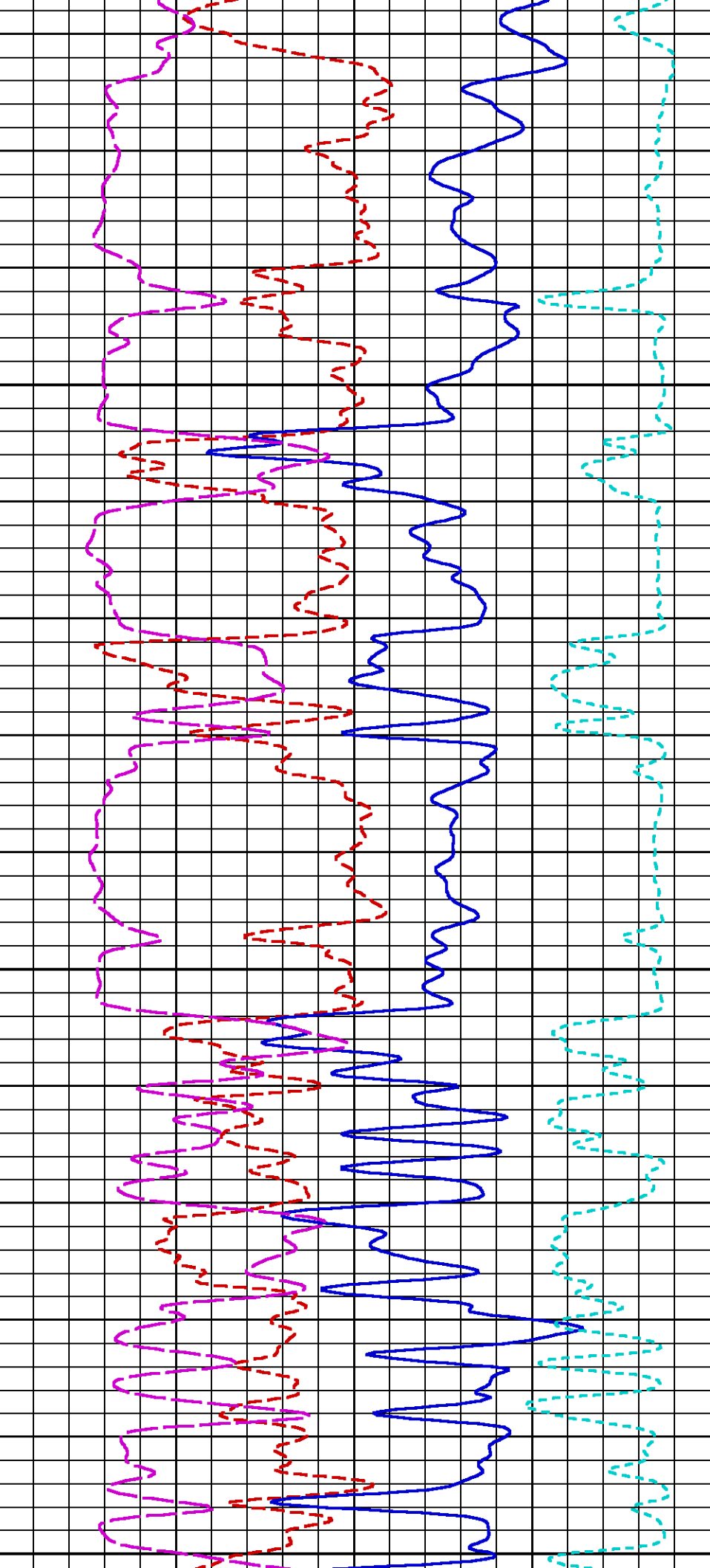
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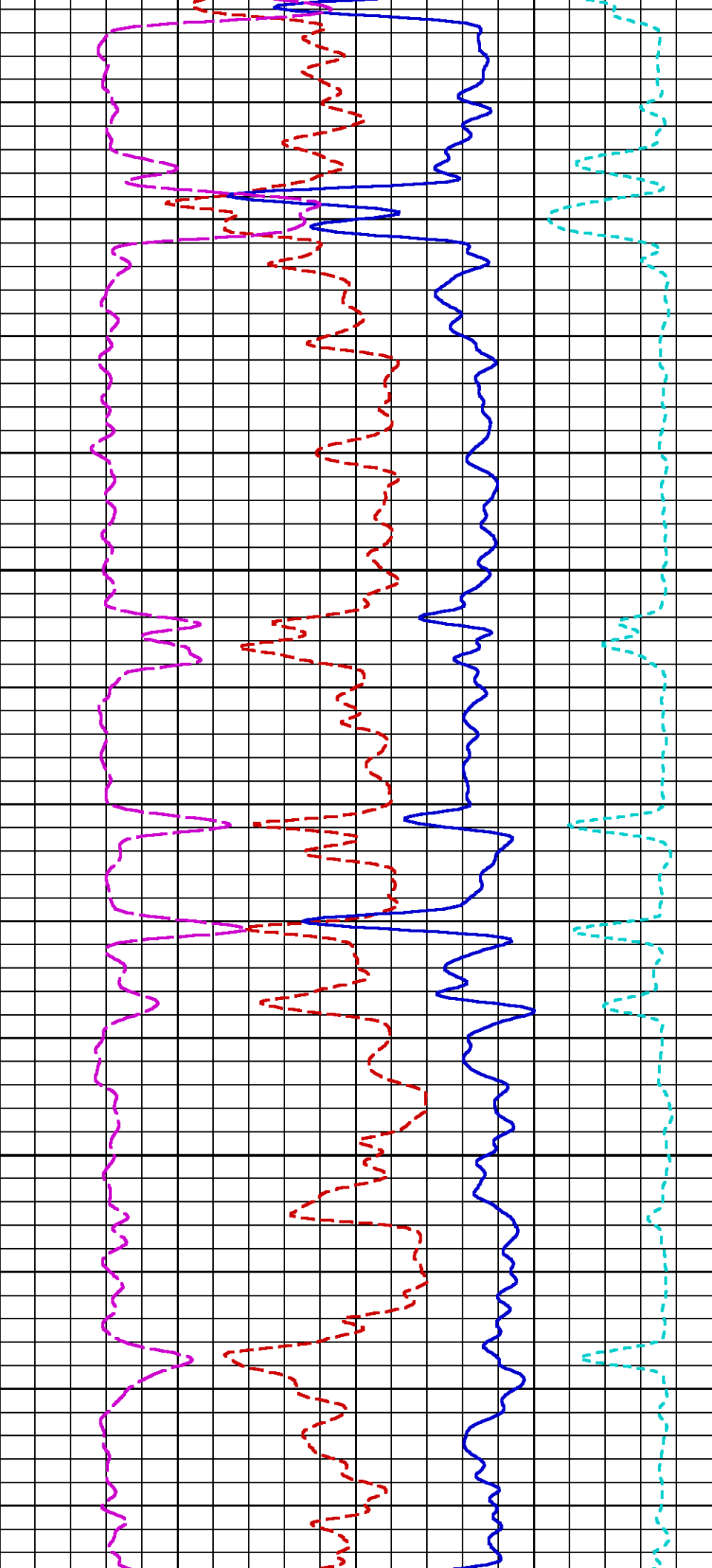
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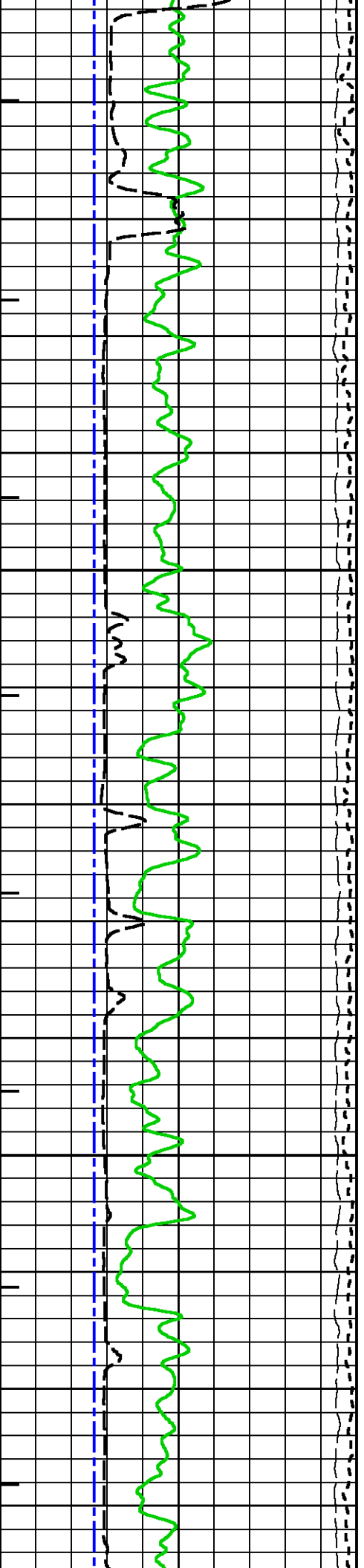


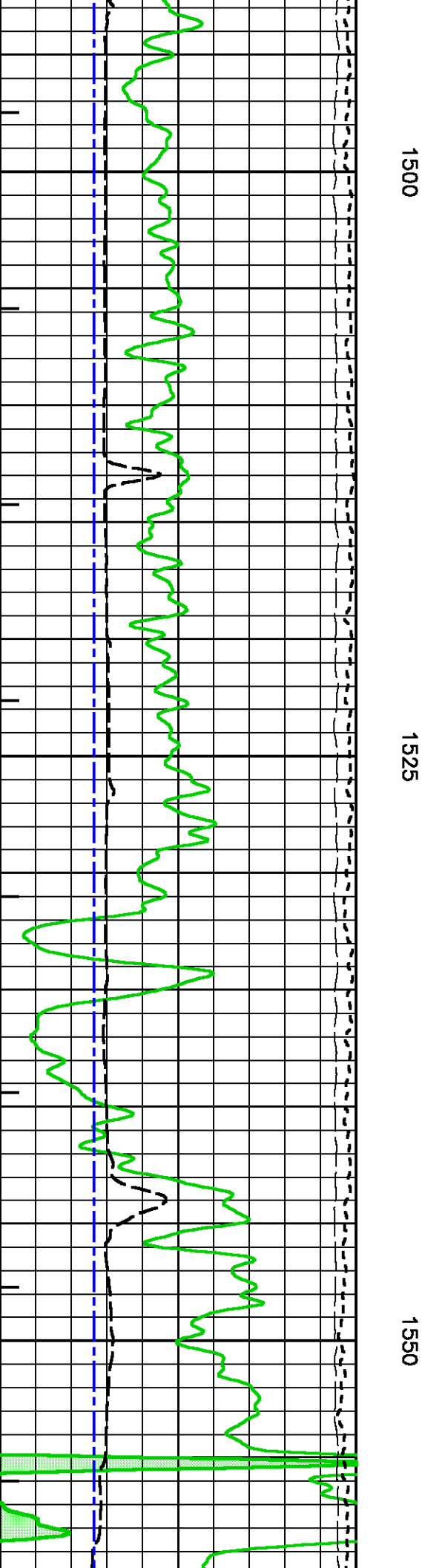
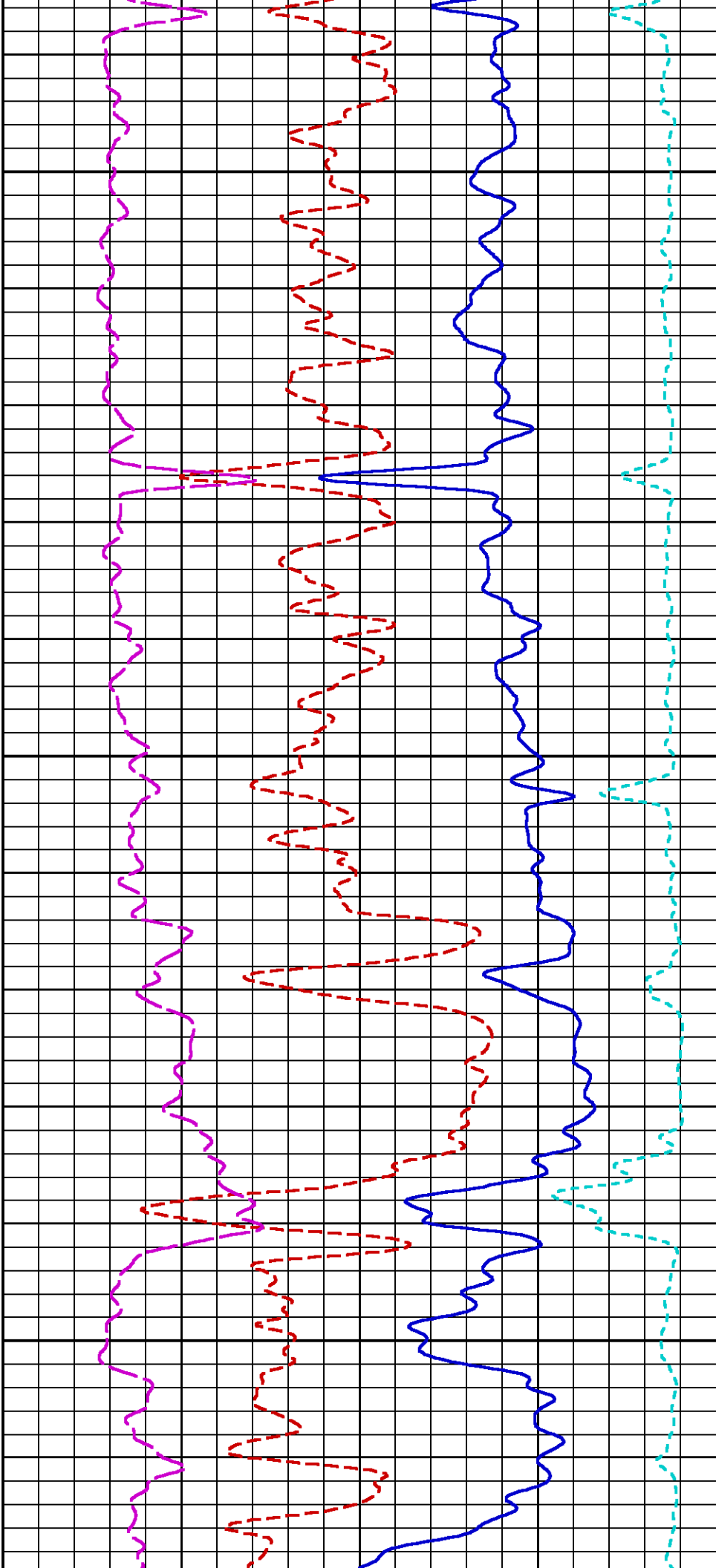


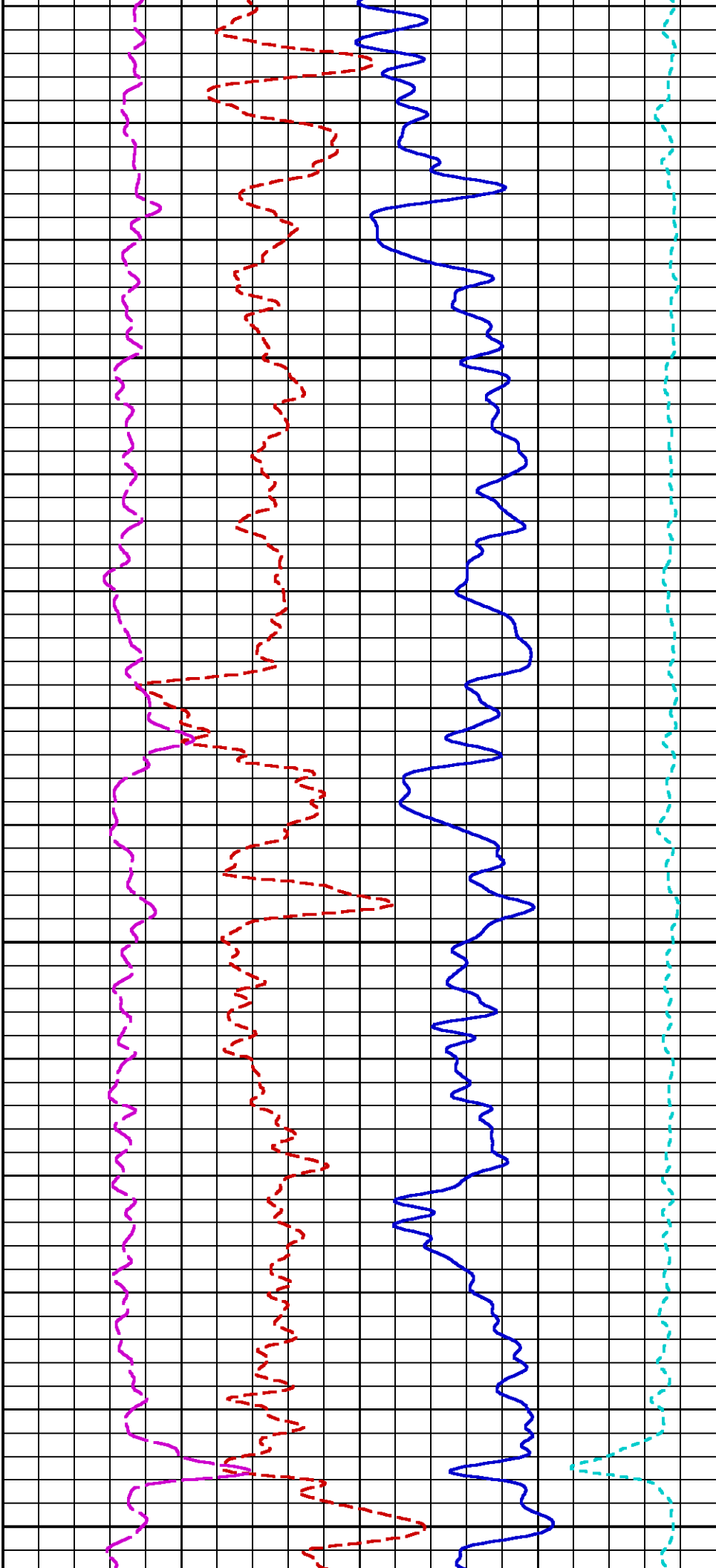




5 1450 1475



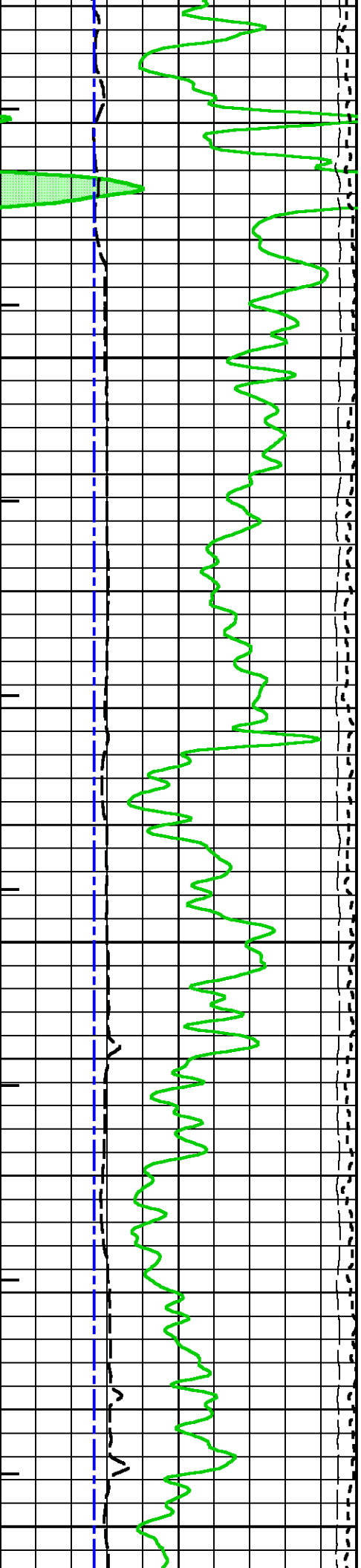


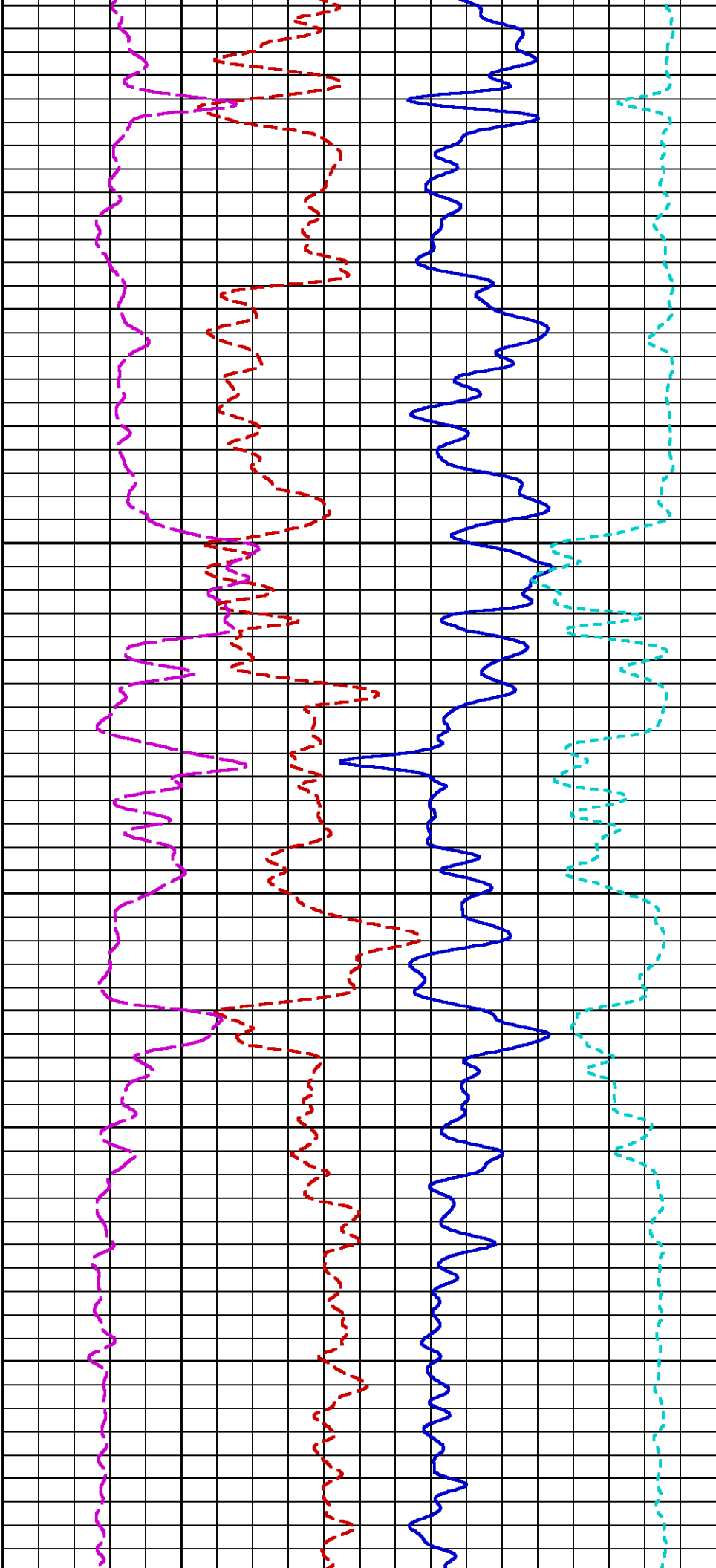


1575

1600

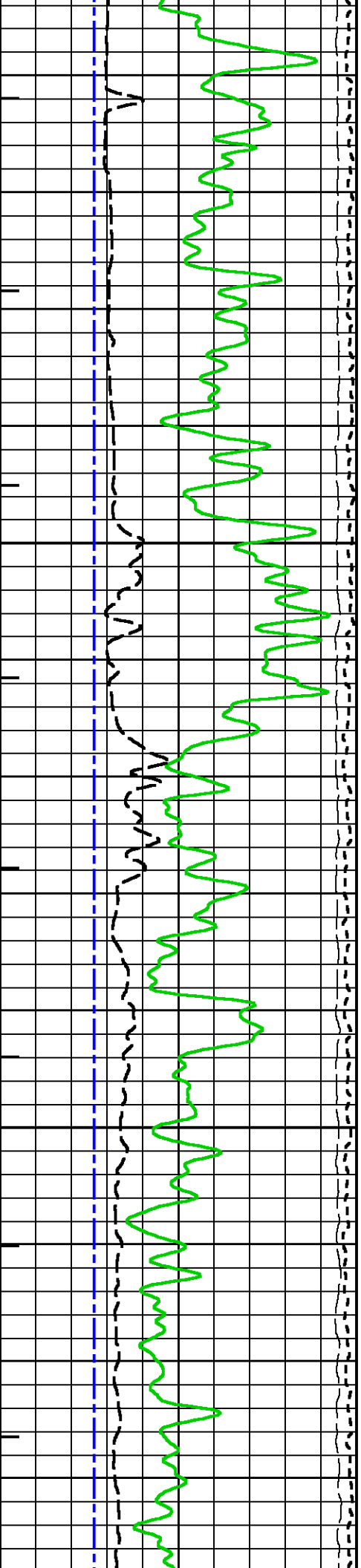
1625

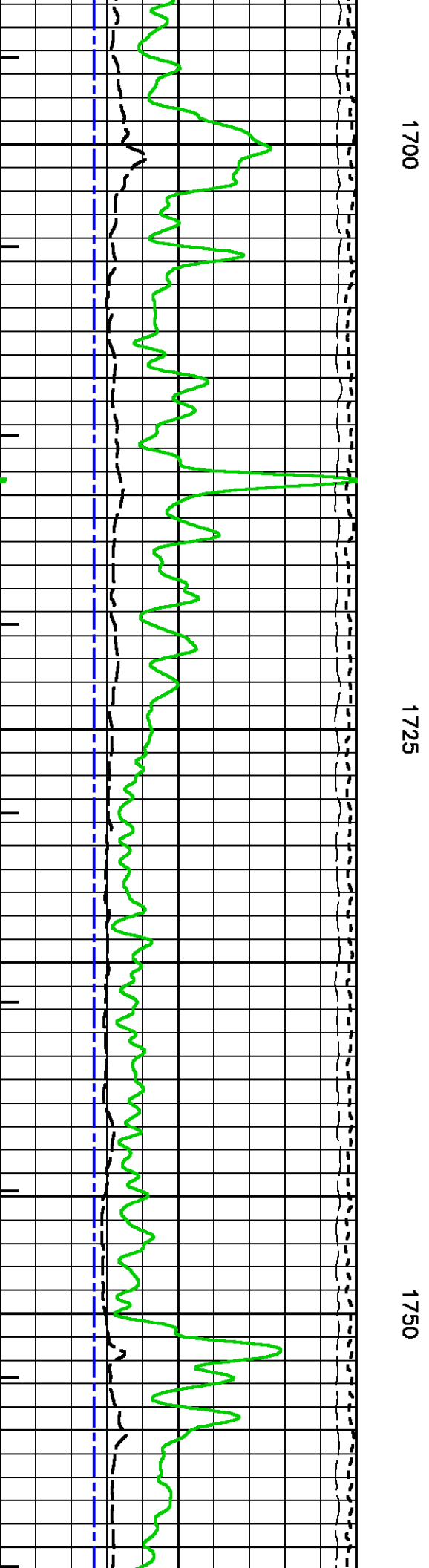
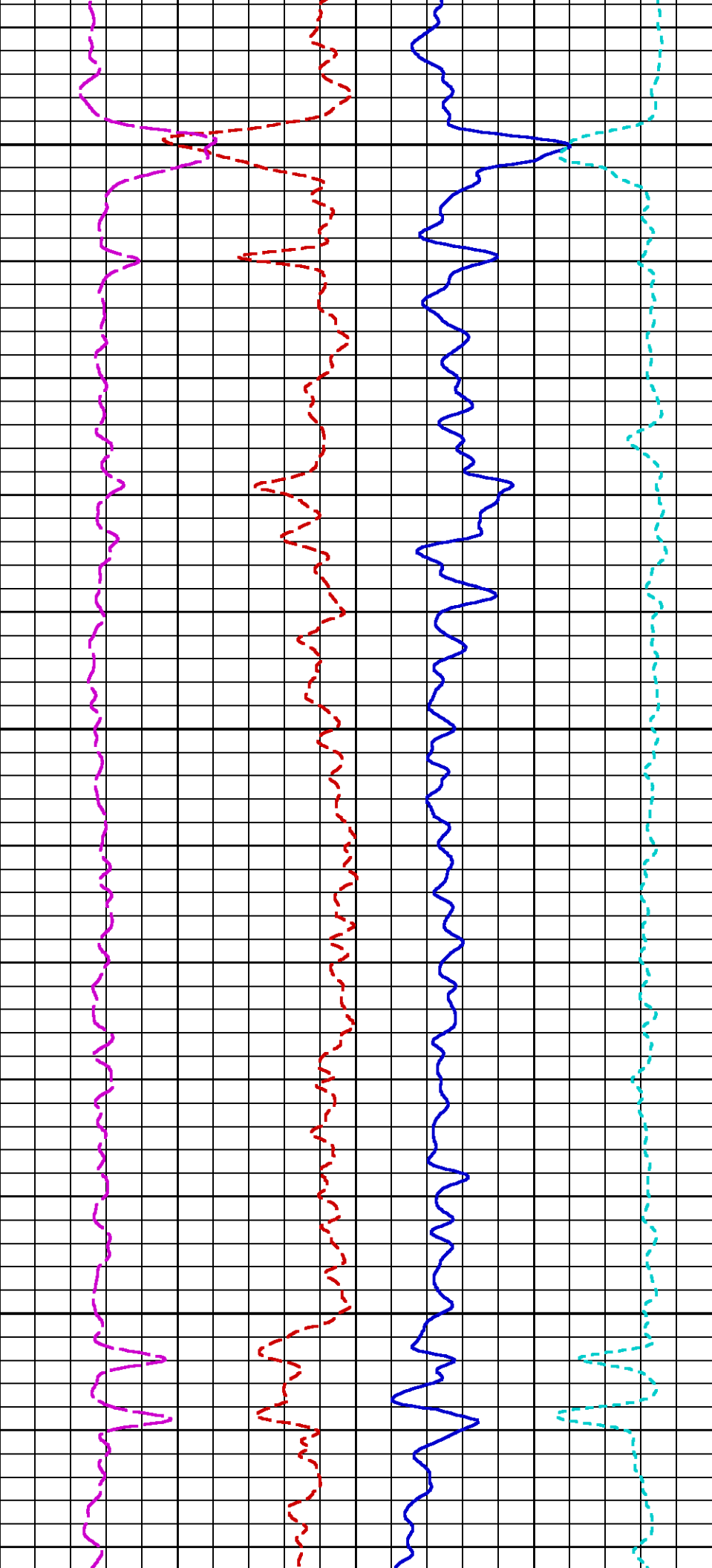


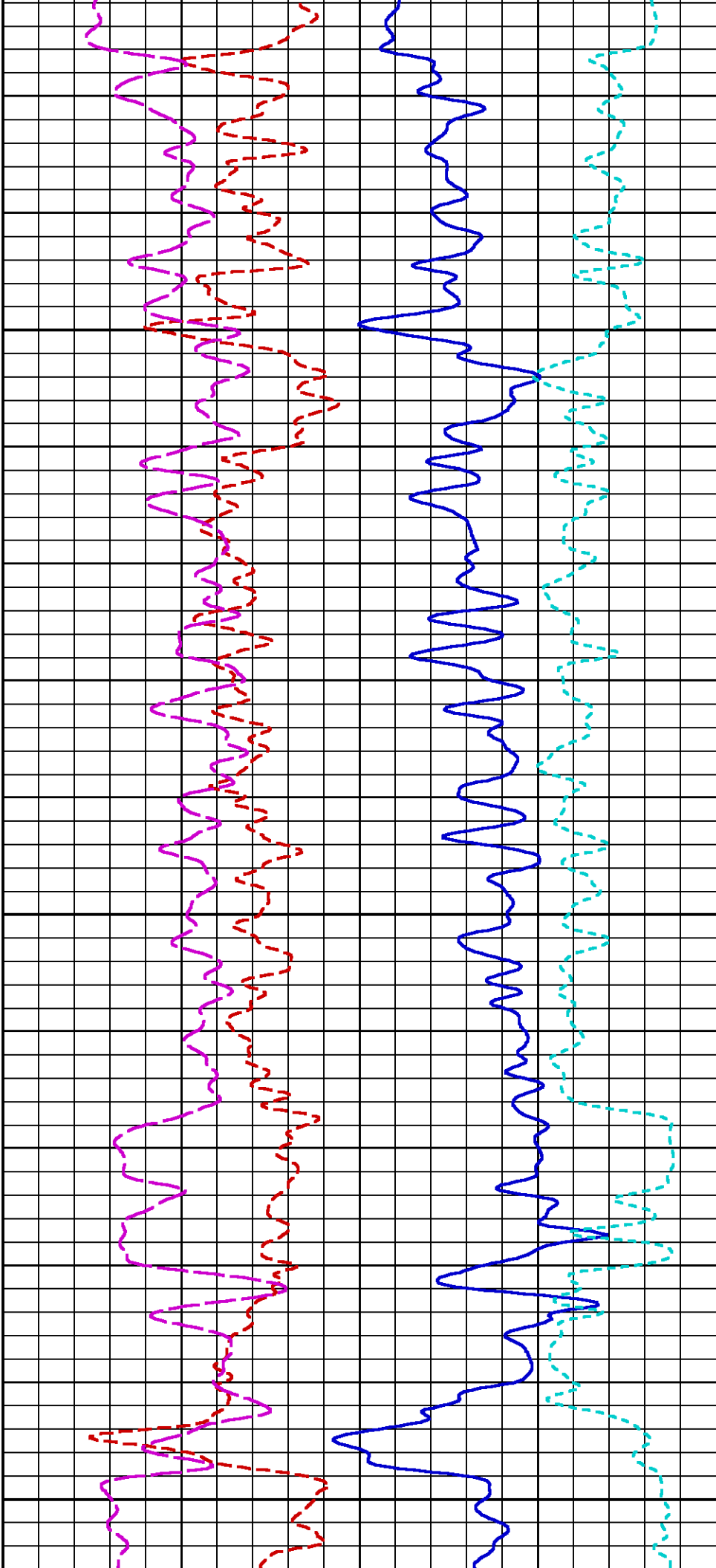


1650

1675



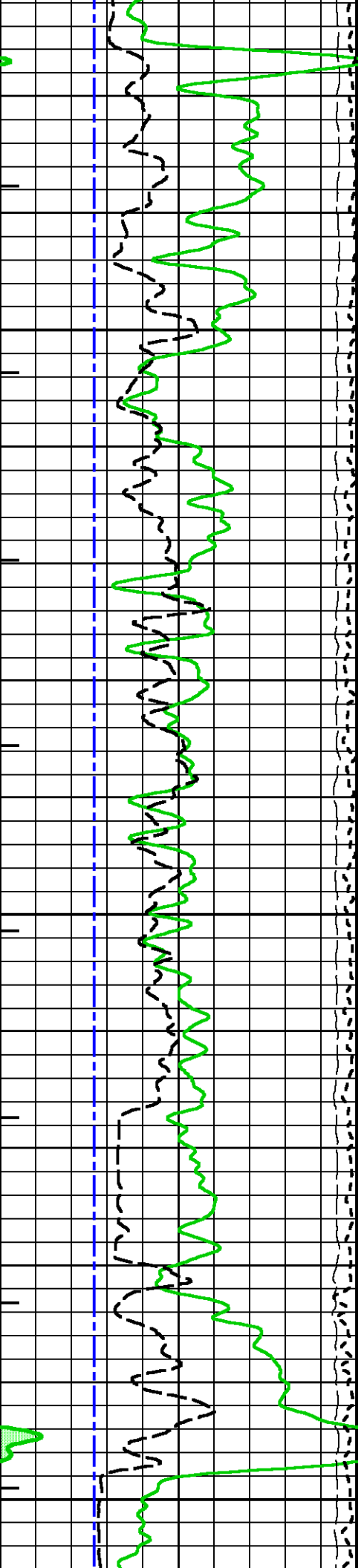


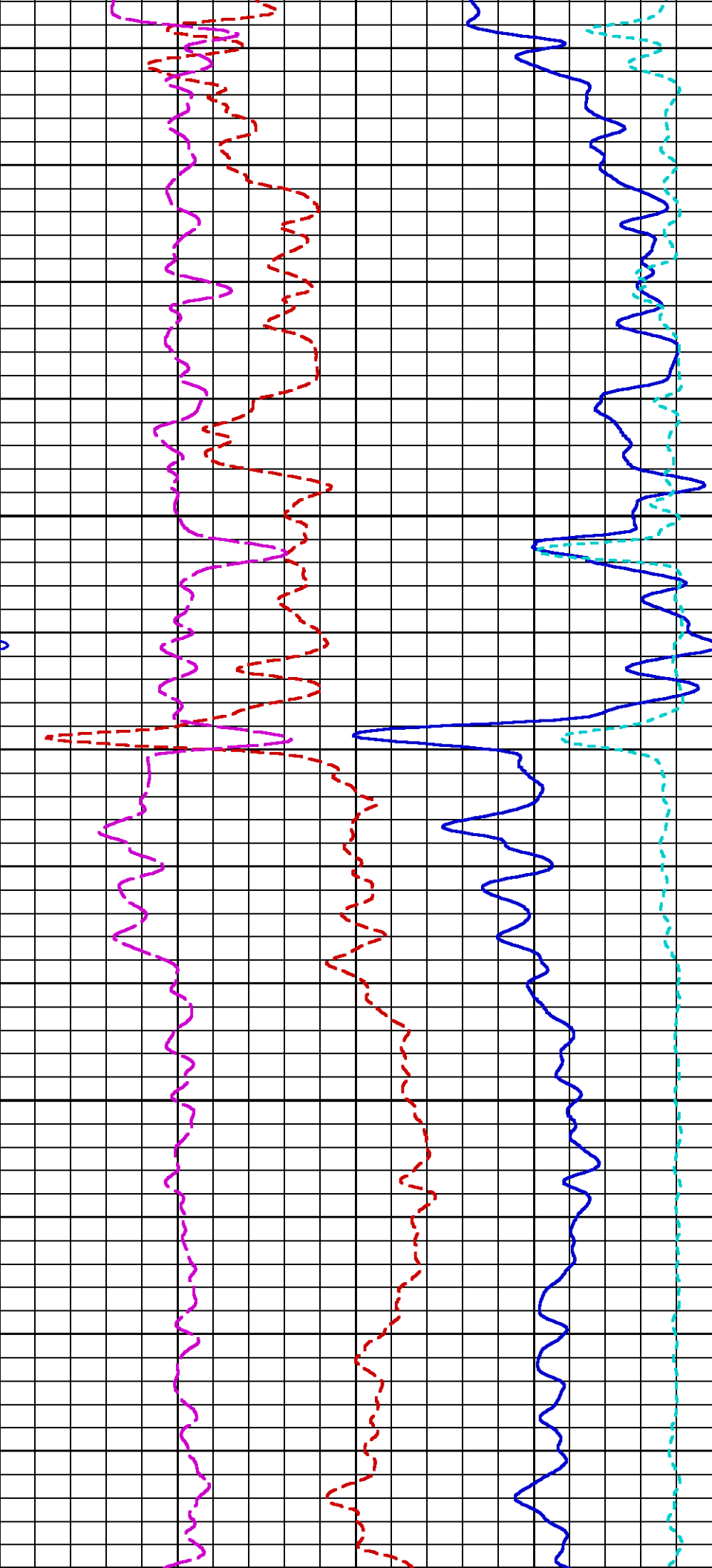


1775

1800

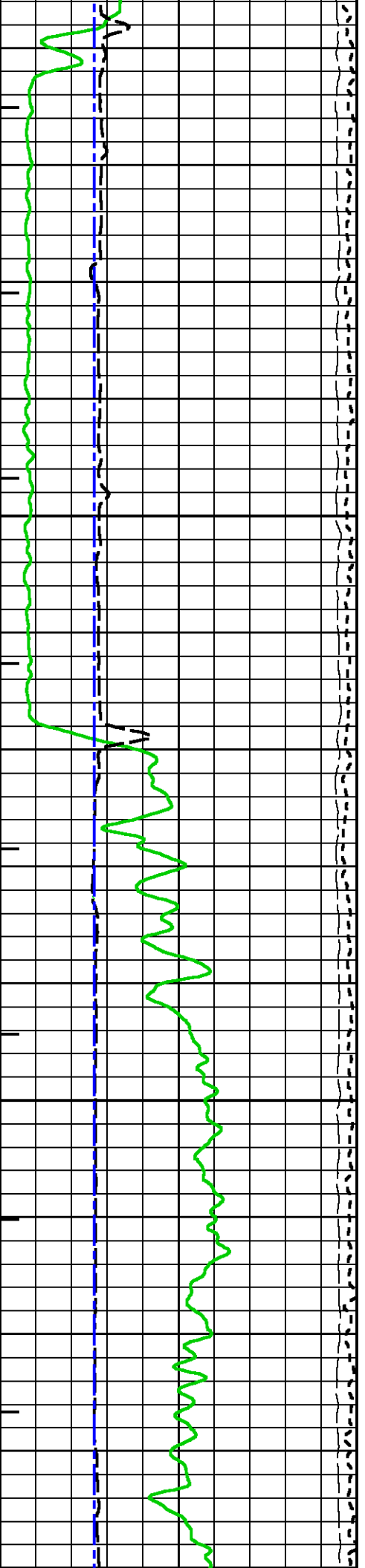
1825

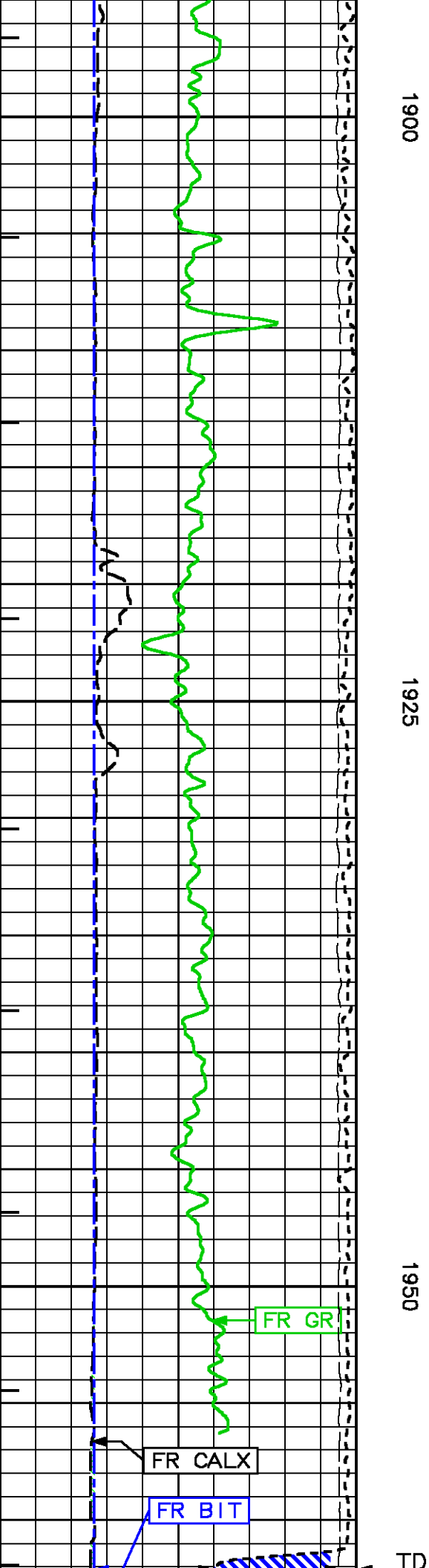
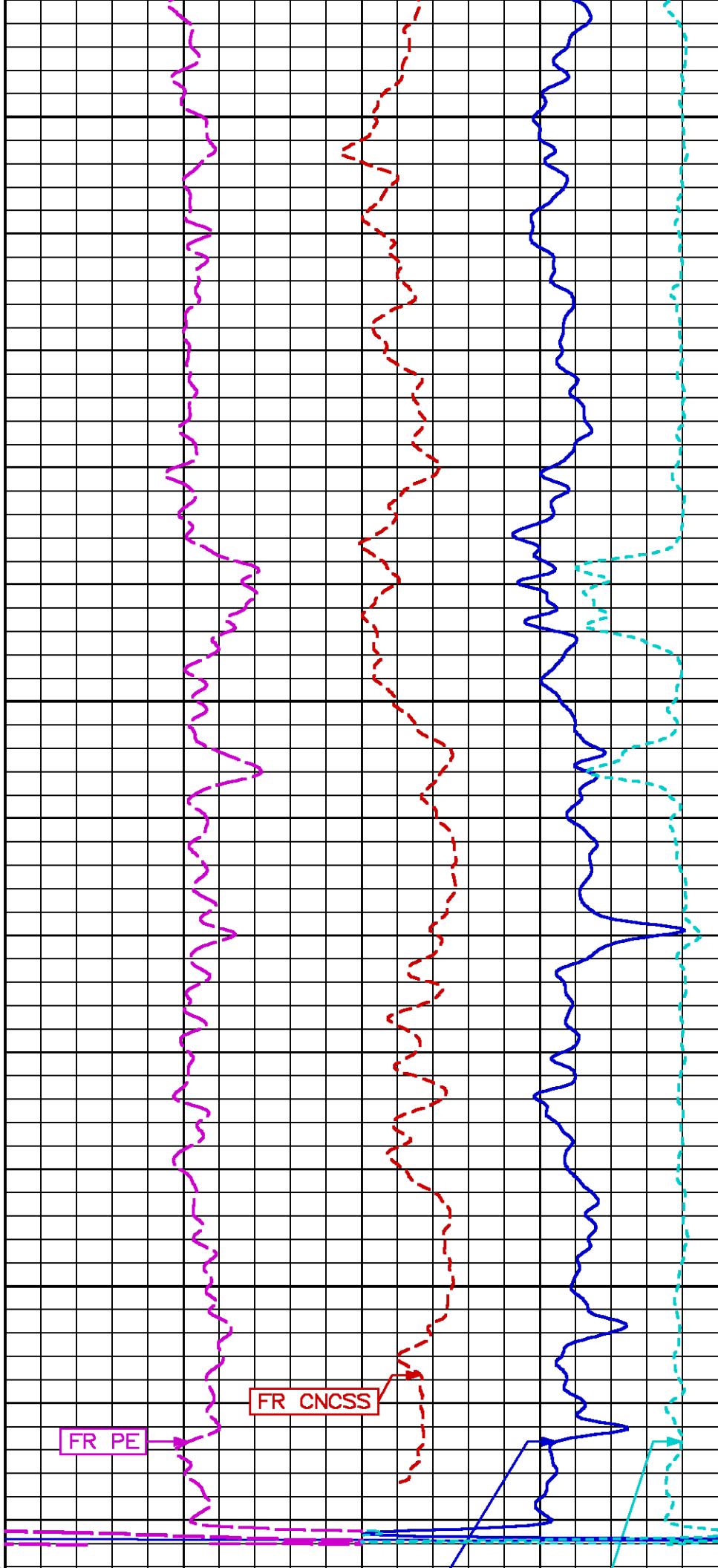


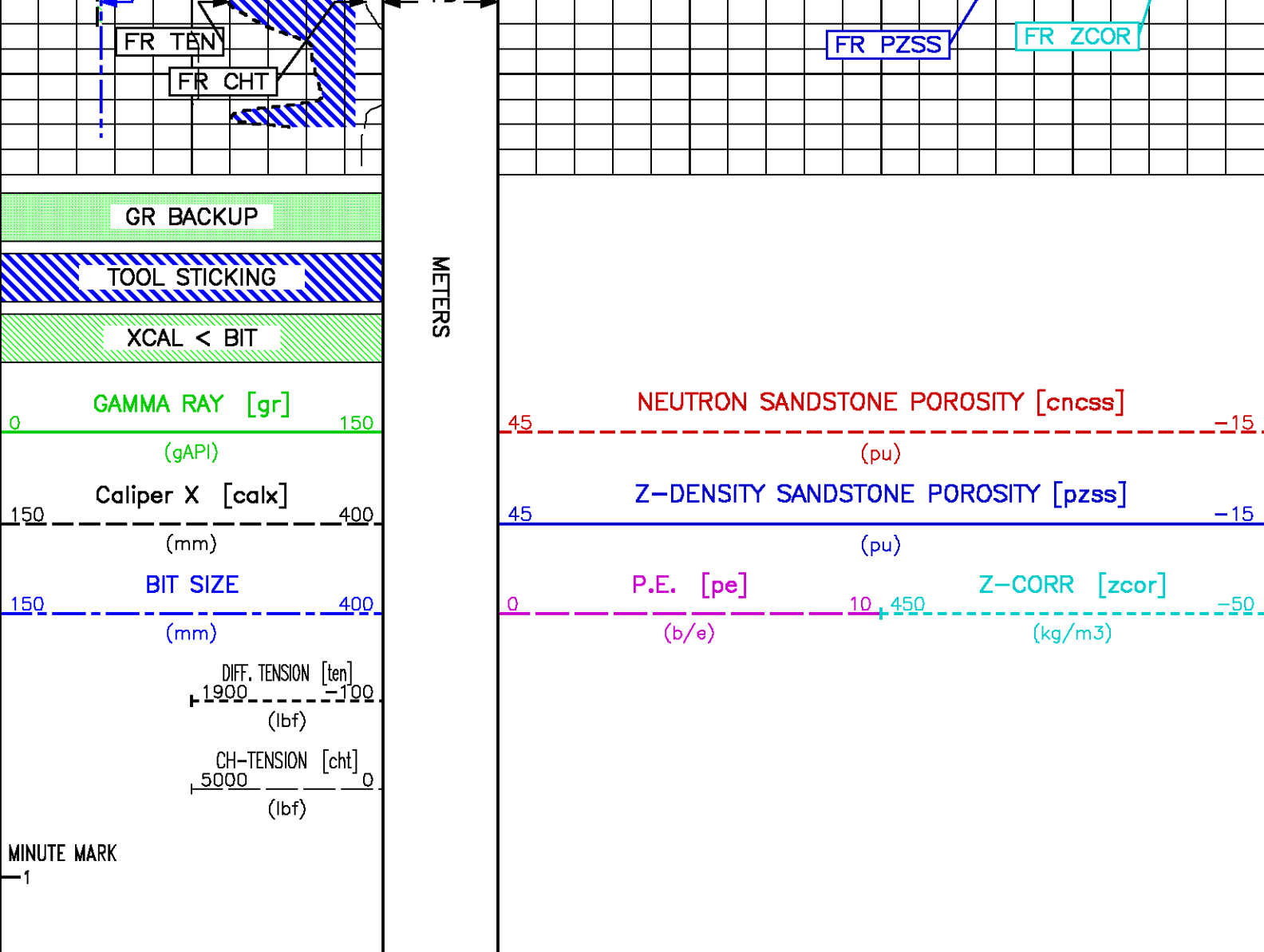


1850

1875







MAIN LOG - LIMESTONE MATRIX

ECLIPS 6.0i Feb 21, 2008
Updates: 1,40,43

Wed Nov 25 18:28:54 2009

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/vulcan/k970a03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 796.816 m BOTTOM DEPTH: 1967.491 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
GR MED RES	FILTER ()	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
CN MED RES	FILTER ()	medium (1)		"	"

ZDL MED RES	FILTER (hrd1*)	medium	''	''
	FILTER (hrd1s*)	medium	''	''
	FILTER (hrd2*)	medium	''	''
	FILTER (hrd2s*)	medium	''	''
	FILTER (soft*)	medium	''	''

BOREHOLE & CEMENT					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	0.000	mm	TOP	BOTTOM
	CASING THICKNESS	0.000	mm	''	''
BIT SIZE	BIT SIZE	216.000	mm	''	''
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		''	''
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	216.000	mm	''	''

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	ON		TOP	878.662
		OFF		BOTTOM	878.662
	BIT SIZE BEHIND CSNG	311.000	mm	TOP	879.881
		200.025	mm	879.881	BOTTOM

ZDL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DENSITY POROSITY	RHOfluid	1.000	g/cm3	TOP	BOTTOM
	RHOmatrix (lime)	2.710	g/cm3	''	''

CURVE DESCRIPTION REPORT			
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Nov 25 13:16:58 2009	BIT SIZE
F1:CALX	CALX	Nov 25 13:16:58 2009	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Nov 25 13:16:58 2009	CABLE HEAD TENSION
F1:CNCLS	CNCLS	Nov 25 13:16:58 2009	BH SIZE CORR. LIMESTONE COMPENSATED NEUTRON POROSITY
F1:GR	GR	Nov 25 13:16:58 2009	GAMMA RAY
F1:MMRK	MMRK	Nov 25 13:16:58 2009	MINUTE MARK
F1:PE	PE	Nov 25 13:16:58 2009	PHOTO ELECTRIC CROSS-SECTION
F1:PZLS	PZLS	Nov 25 13:16:58 2009	POROSITY FOR LIMESTONE MATRIX
F1:TEN	TEN	Nov 25 13:16:58 2009	DIFFERENTIAL TENSION
F1:ZCOR	ZCOR	Nov 25 13:16:58 2009	DENSITY CORRECTION

CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CNCLS	8.34	PZLS	5.49		
CALX	5.49	GR	10.67	TEN	0.00		
CHT	0.00	PE	5.49	ZCOR	5.49		

Presentation	: cpu1:/dat1a/pass/vulcan/fzdl_main Js.pdf [1:240 Scale]
Plot Interval	: 880 - 1968.93 Meters
Data File 1	: F1 : cpu1:/dat1a/pass/vulcan/main.xtf
Created On	: Nov 25 13:16:58 2009
Company	: VULCAN MINERALS INC.
Well	: VULCAN INVESTCAN RED BROOK #2
Field	: RED BROOK
File Interval	: 789.889 - 1968.93 Meters
Oct	: k970a

GR BACKUP	METER	
TOOL STICKING		

TOOL STICKING

XCAL < BIT

GAMMA RAY [gr]

(gAPI)

Caliper X [calx]

(mm)

BIT SIZE

(mm)

DIFF. TENSION [ten]

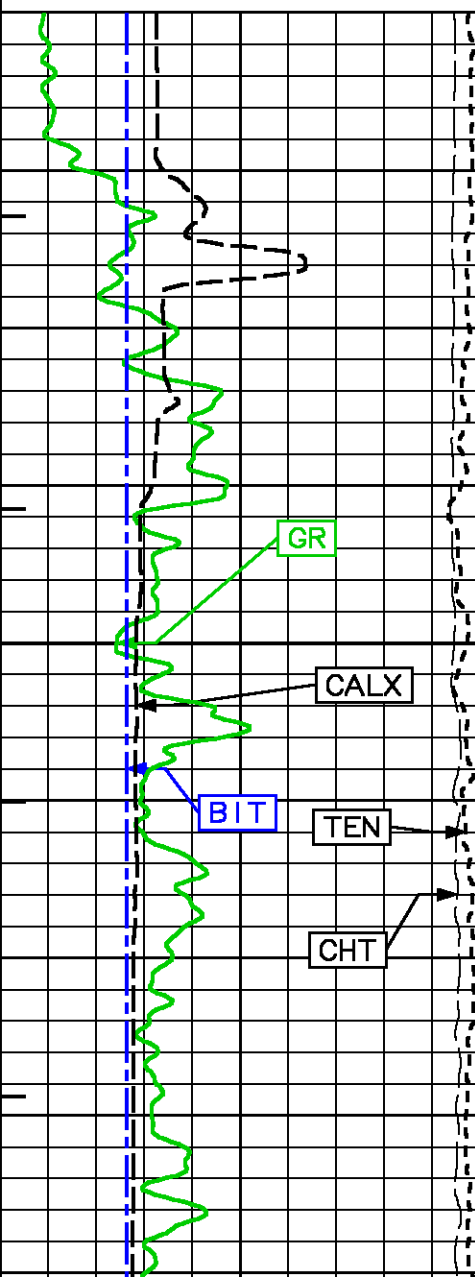
1900
(lbf)

CH-TENSION [cht]

5000
(lbf)

MINUTE MARK

1



CSG

006

NEUTRON Limestone POROSITY [cncls]

(pu)

Z-DENSITY Limestone POROSITY [pzls]

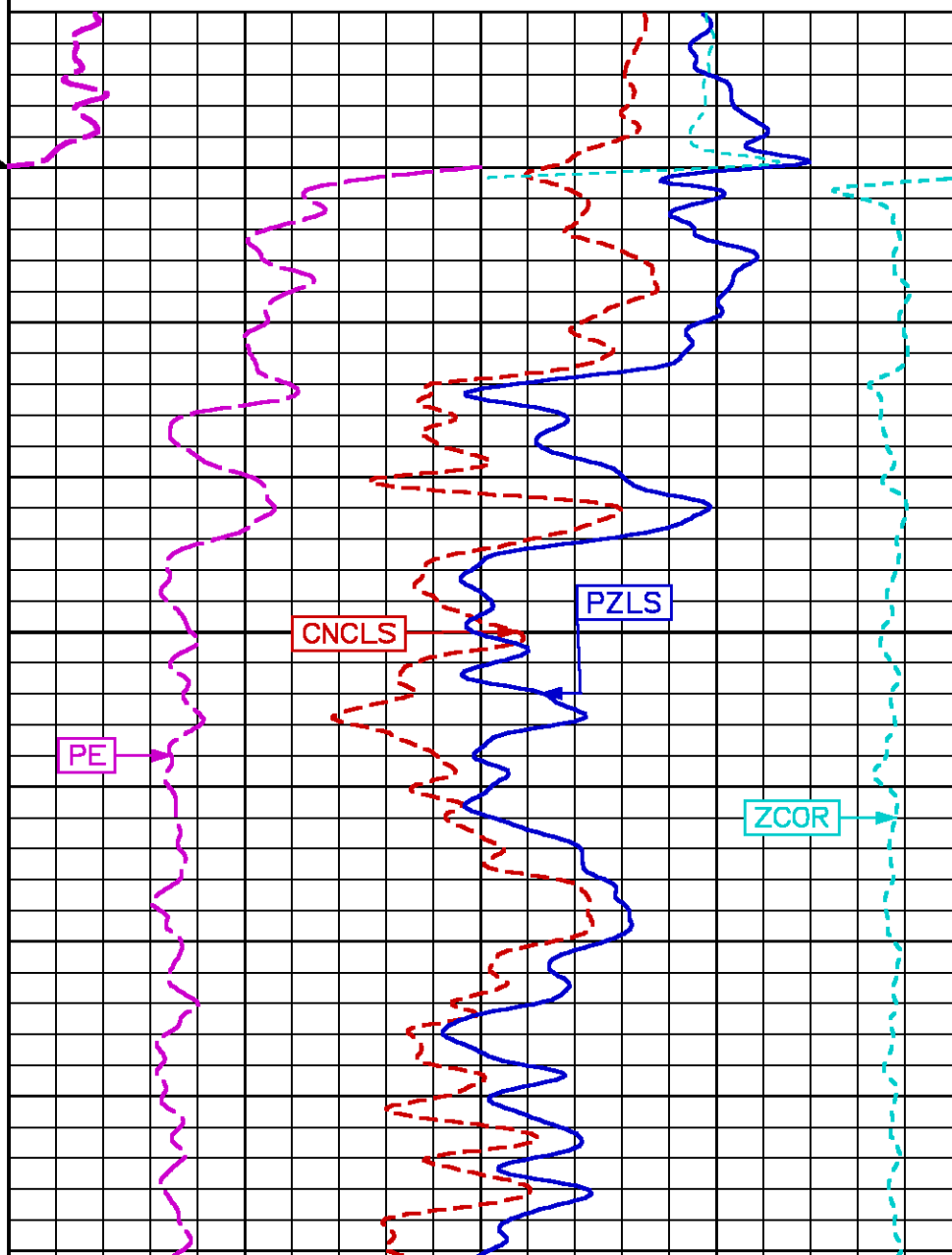
(pu)

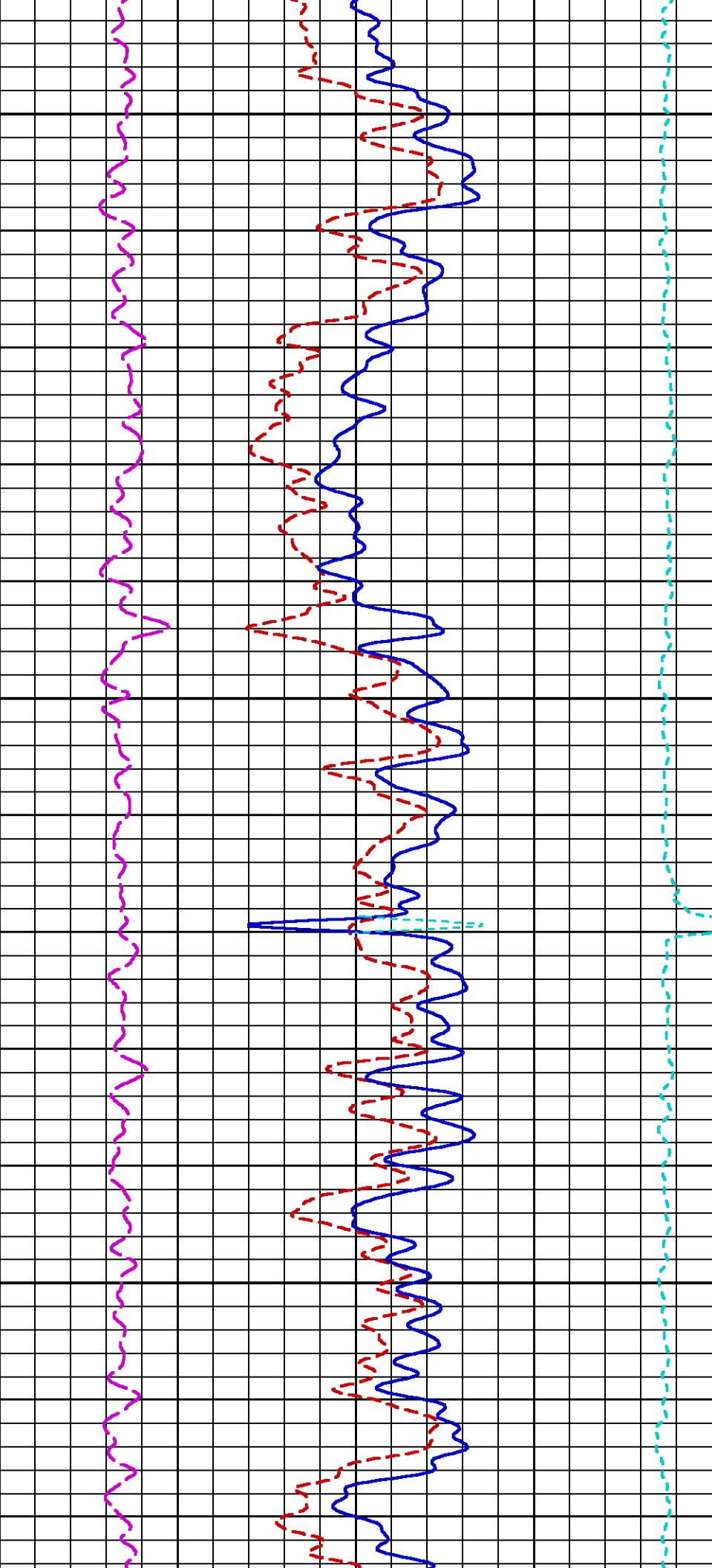
P.E. [pe]

(b/e)

Z-CORR [zcor]

(kg/m3)

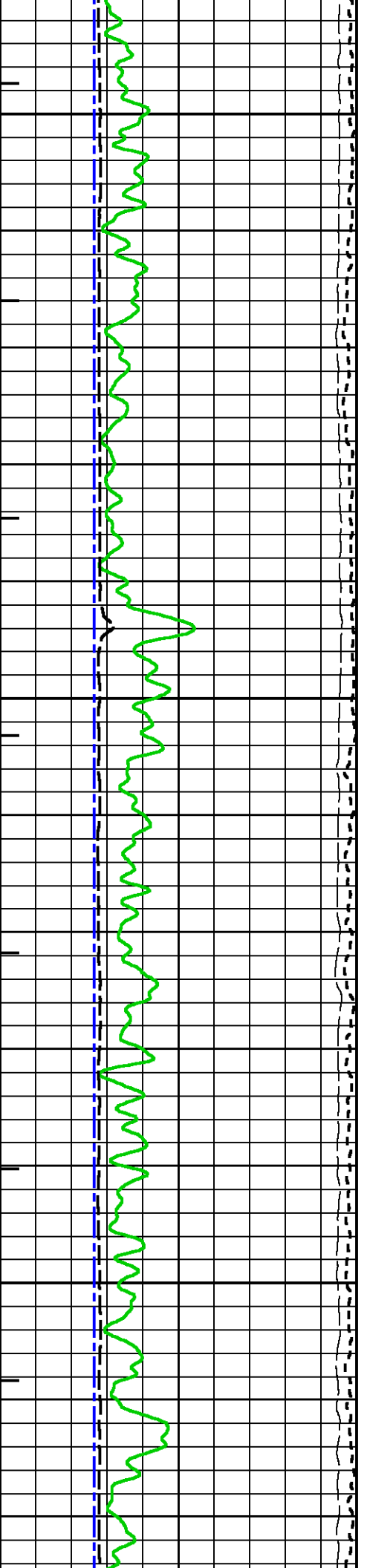


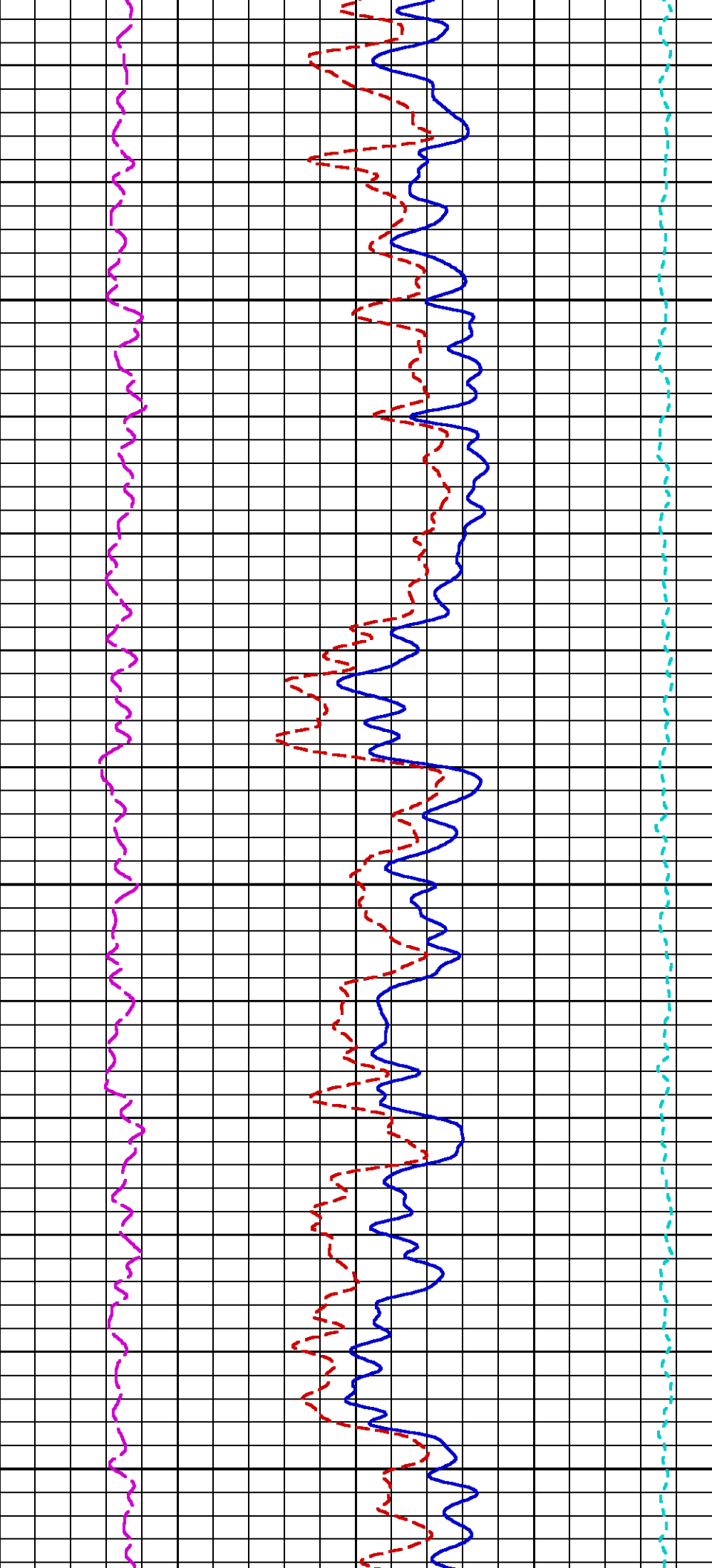


925

950

975

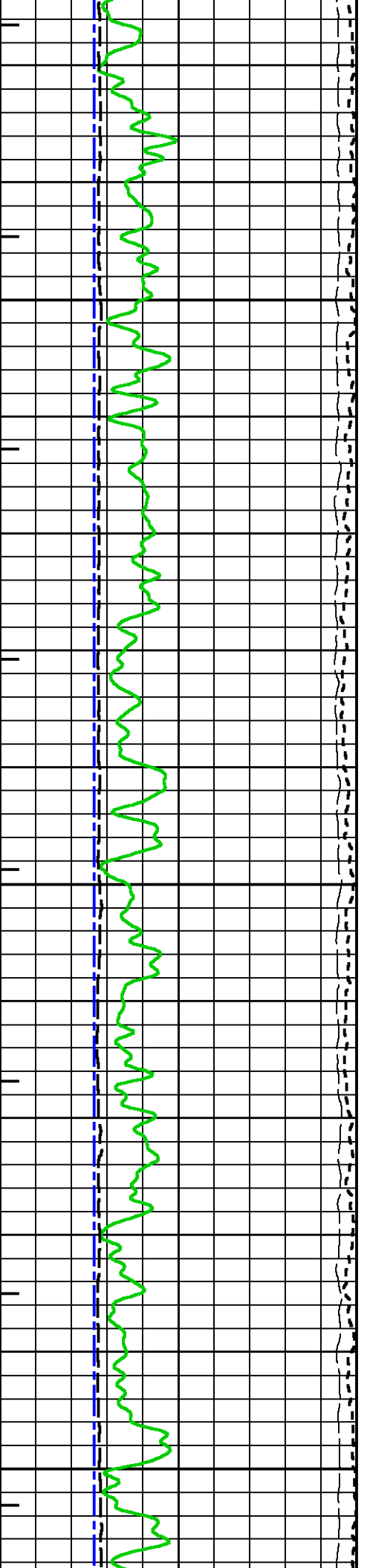


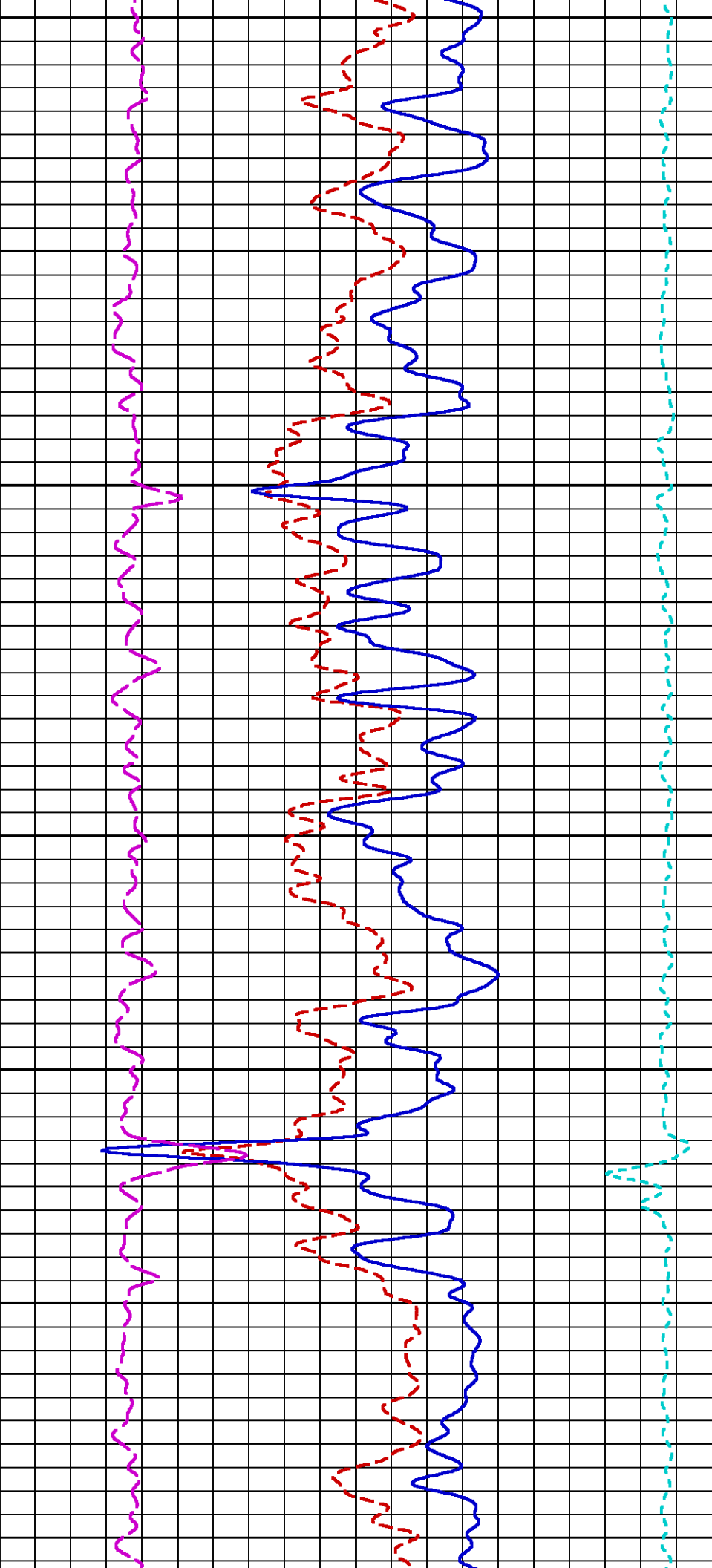


1000

1025

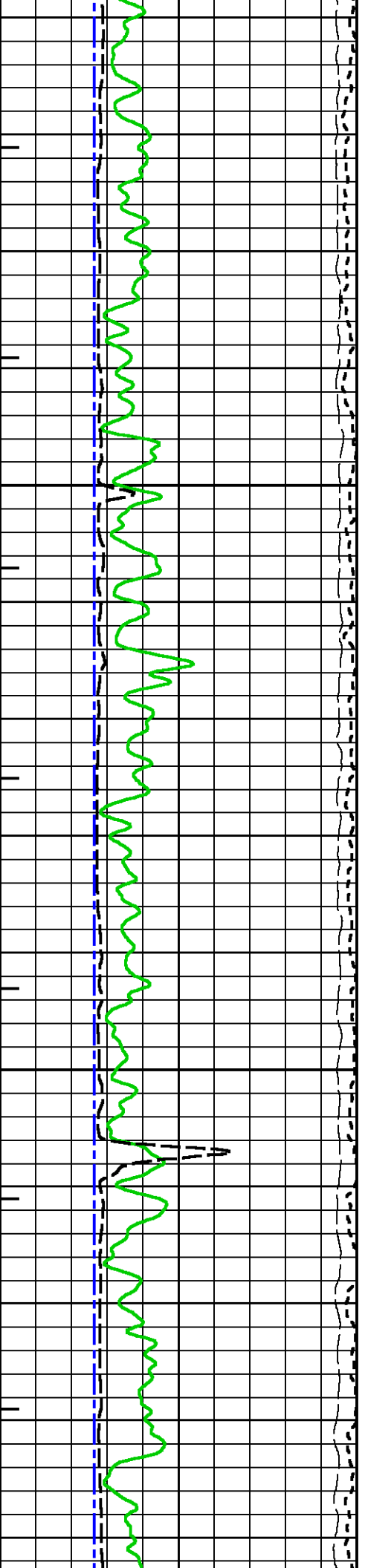
1050

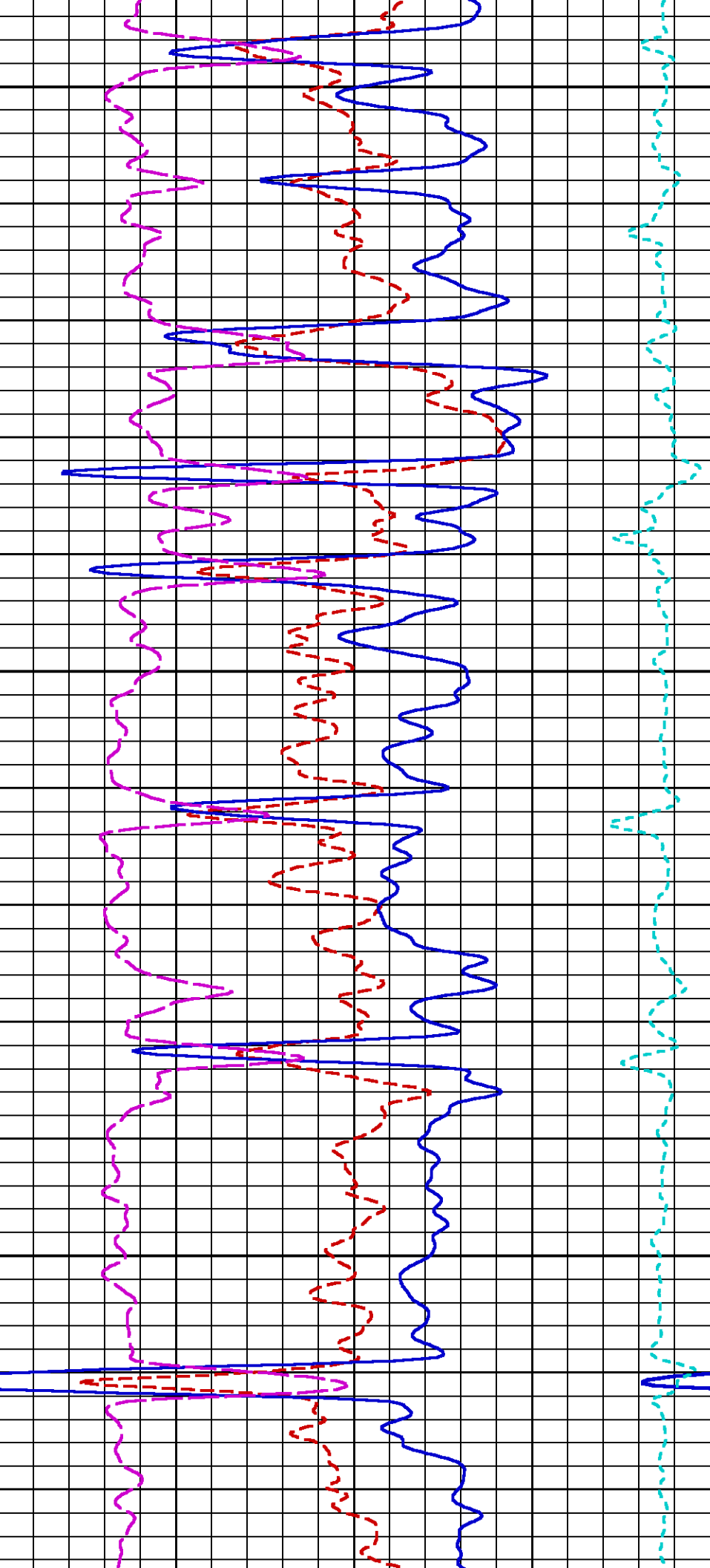




1075

1100

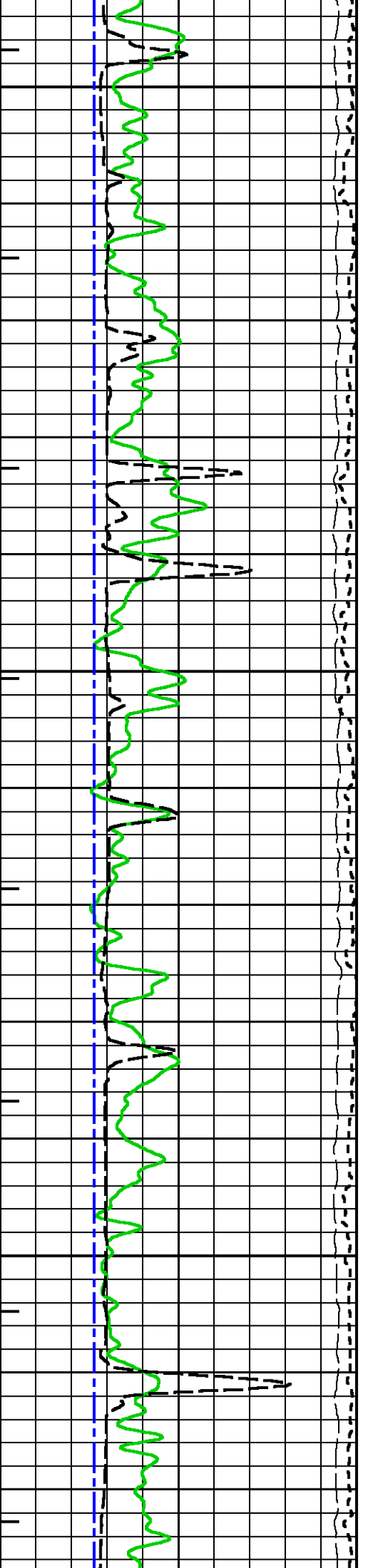


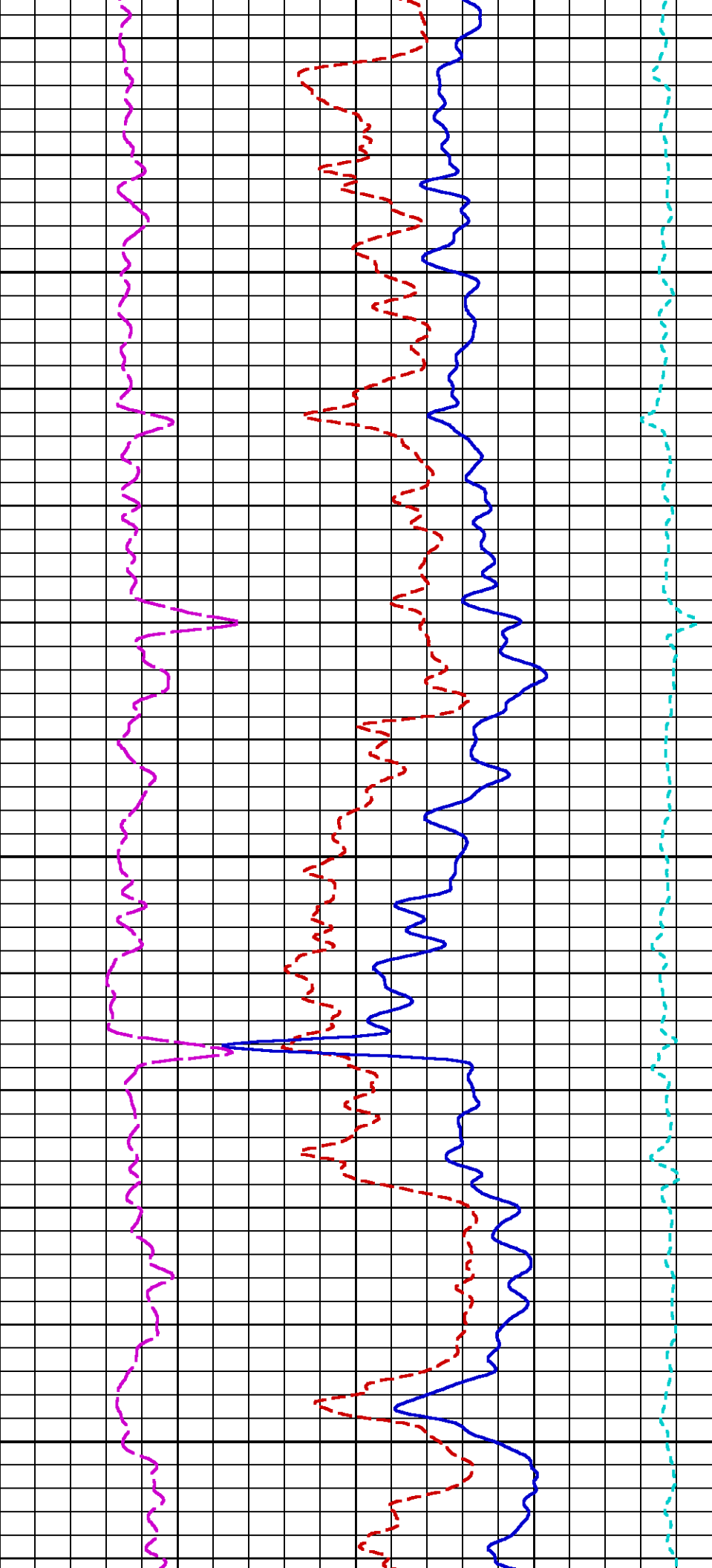


1125

1150

1175

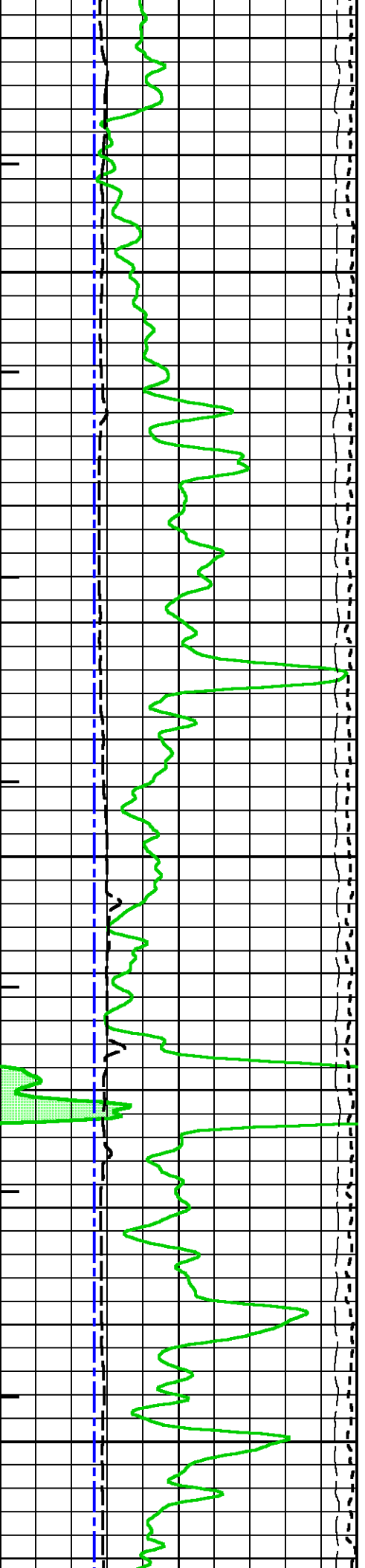


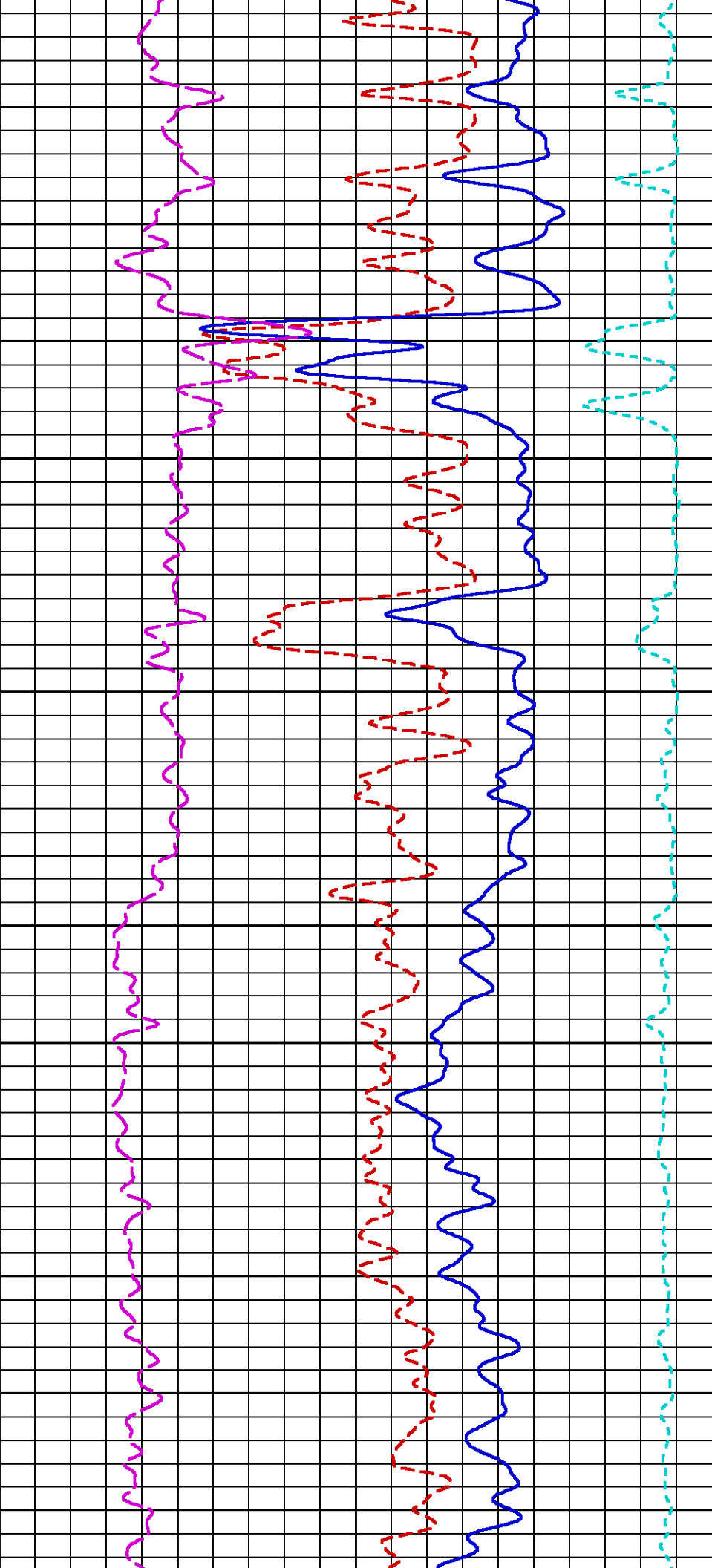


1200

1225

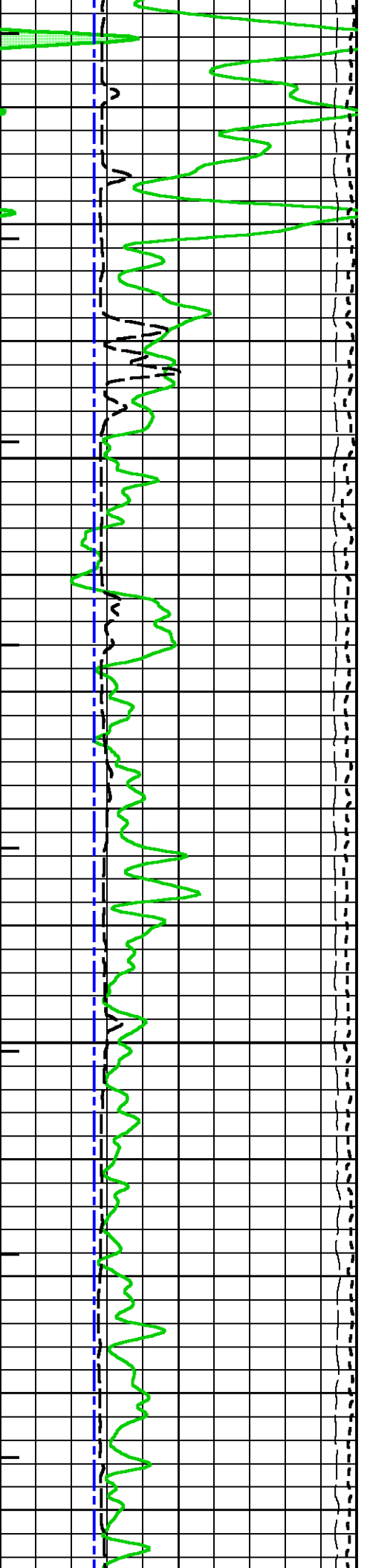
1250

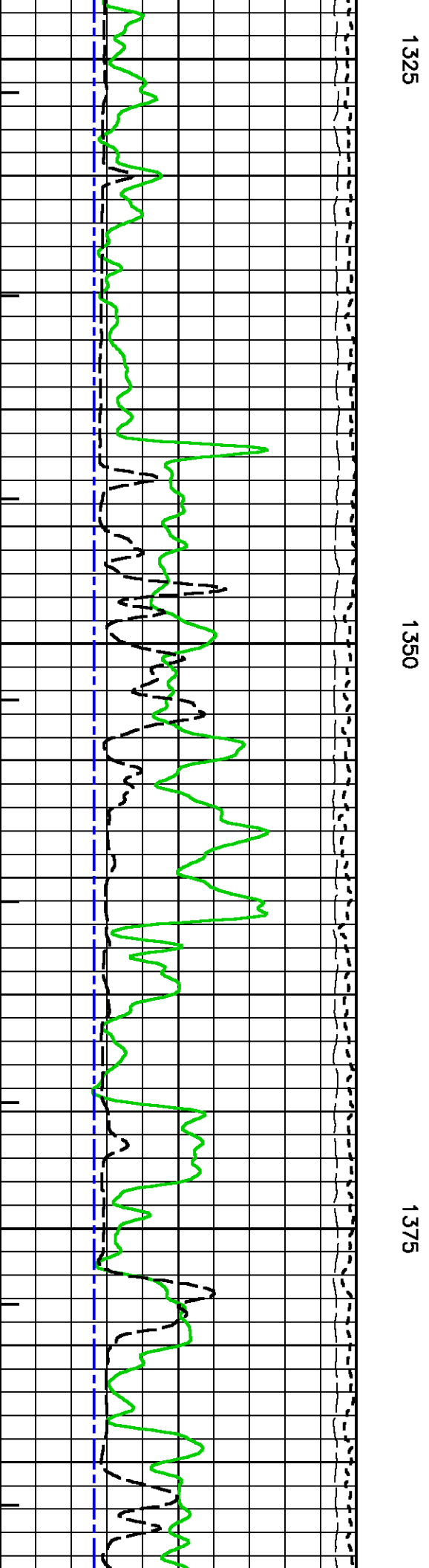
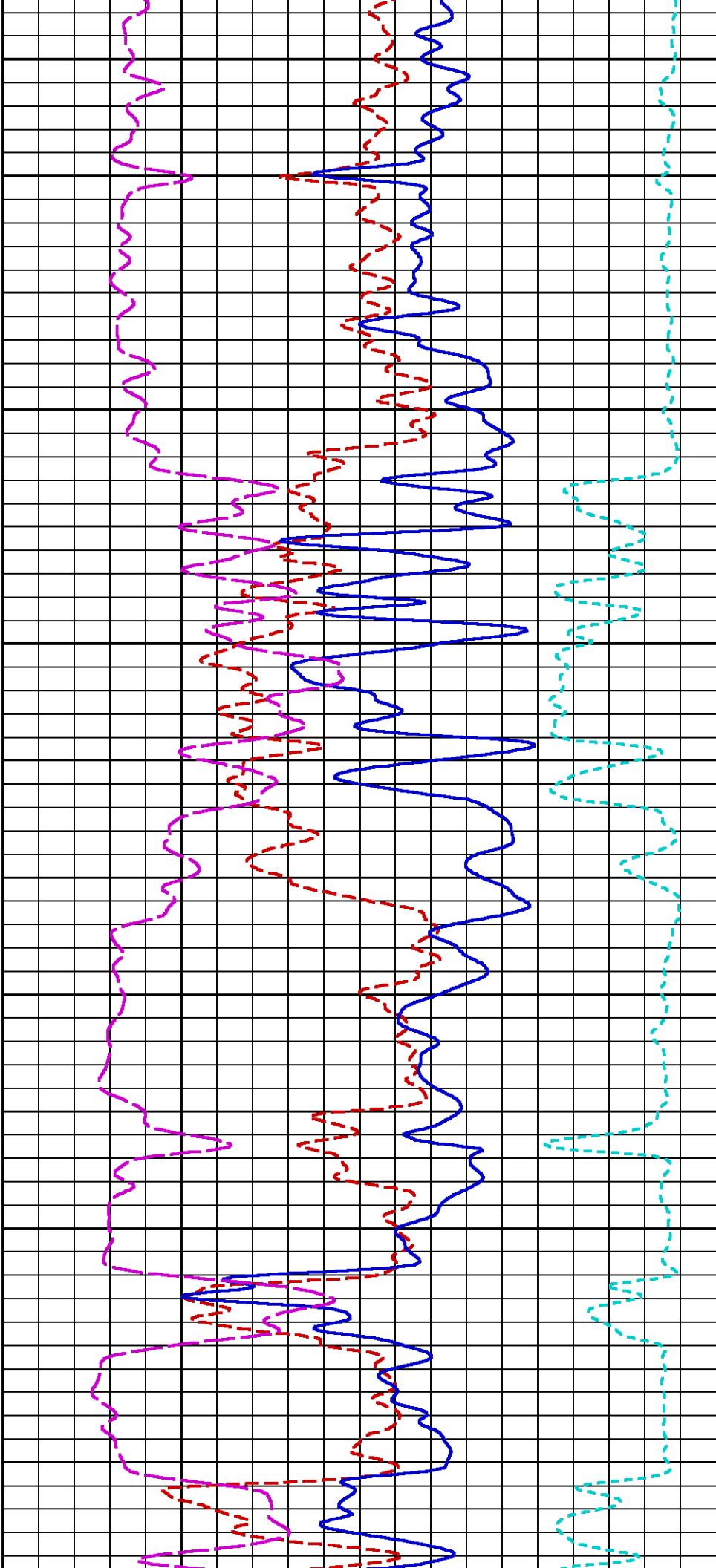


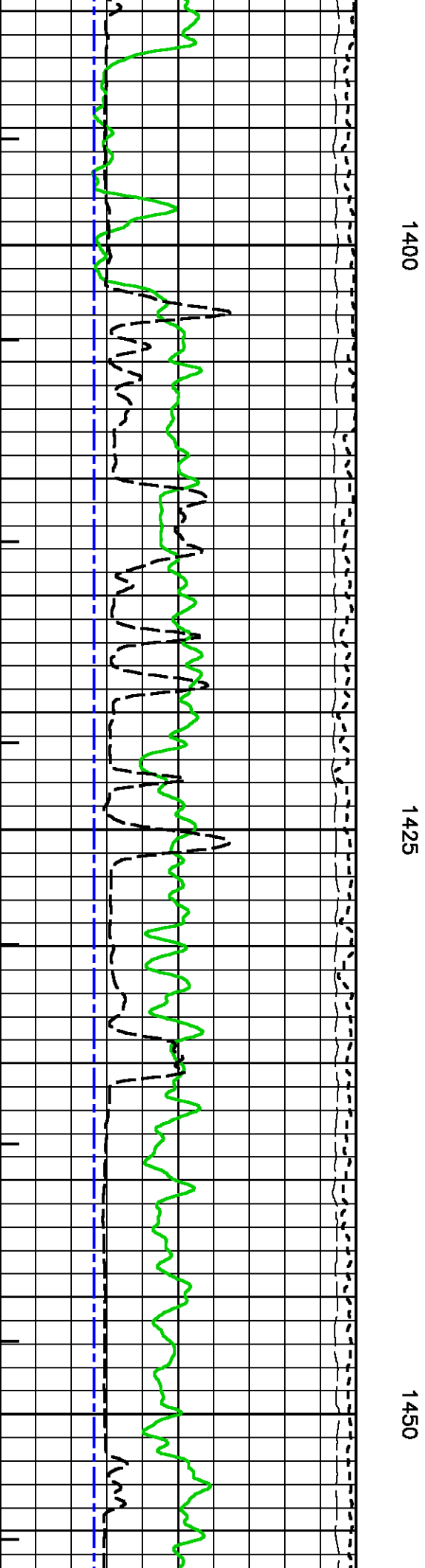
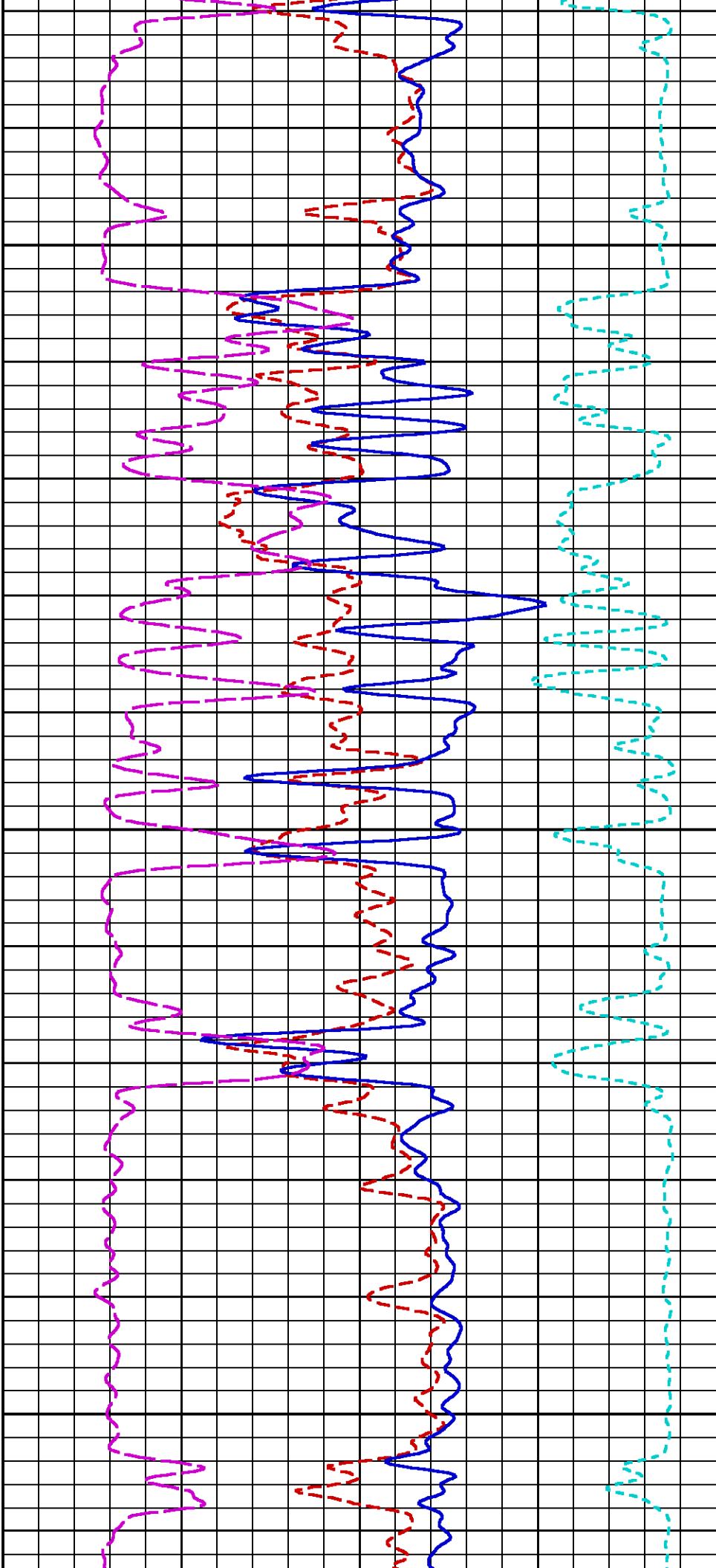


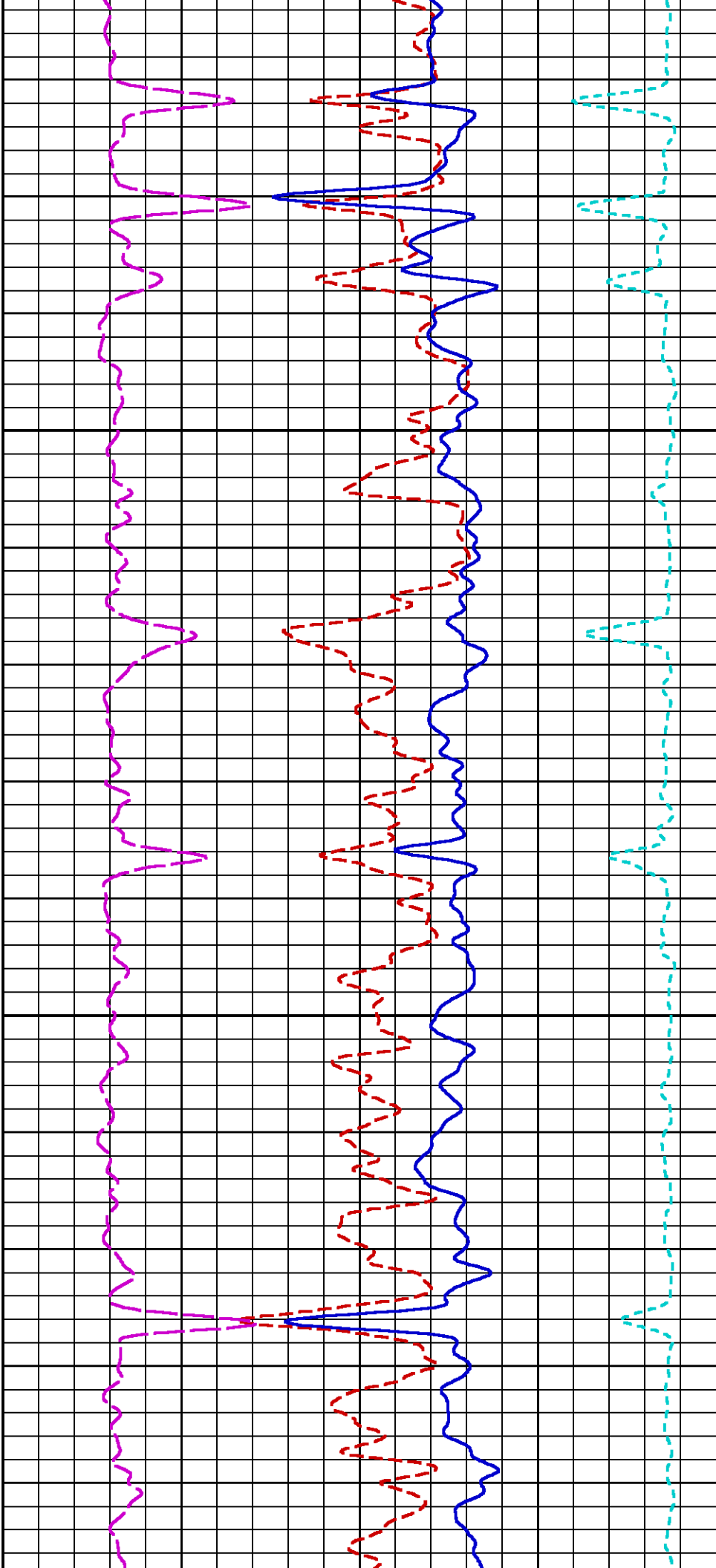
1275

1300



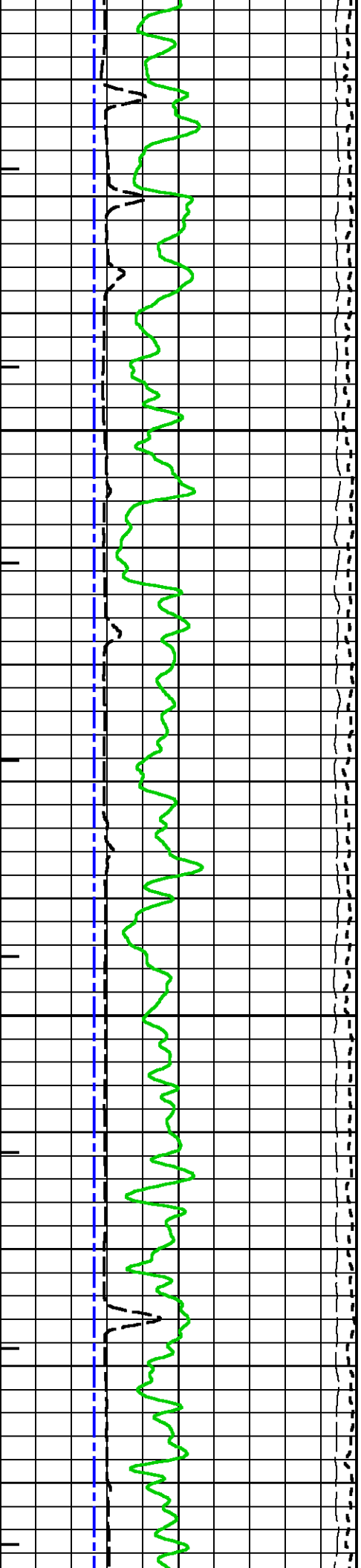


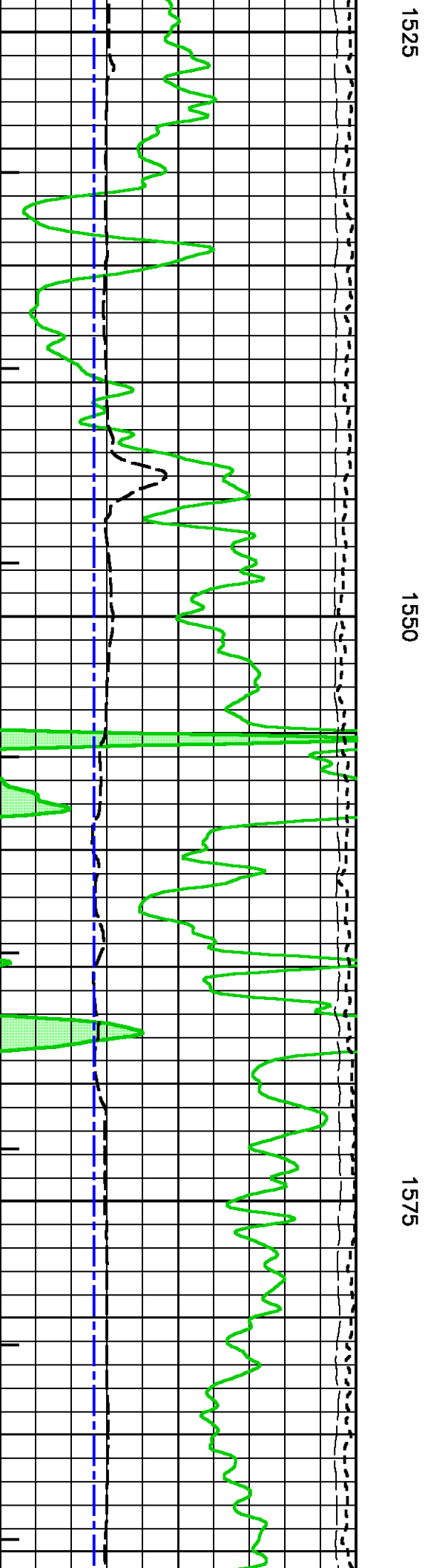
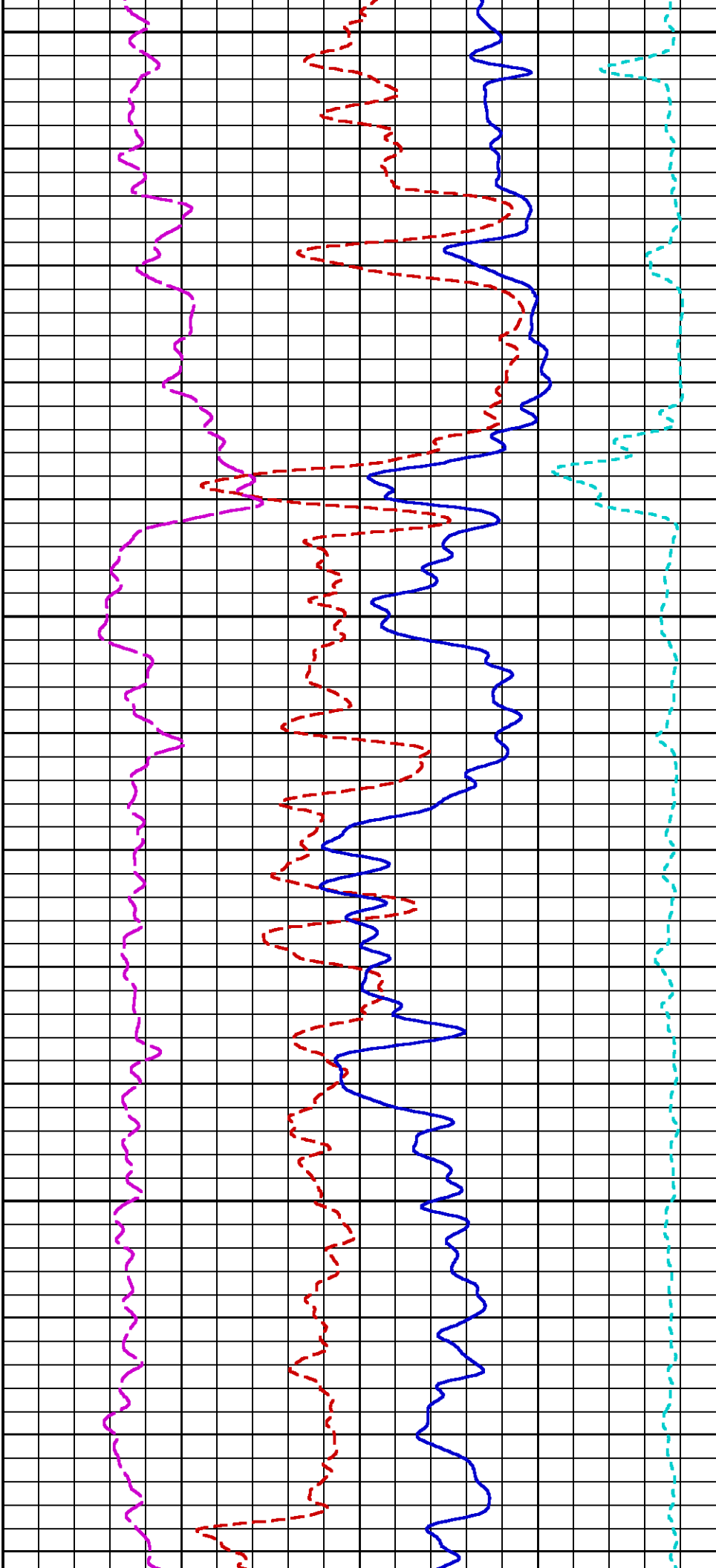


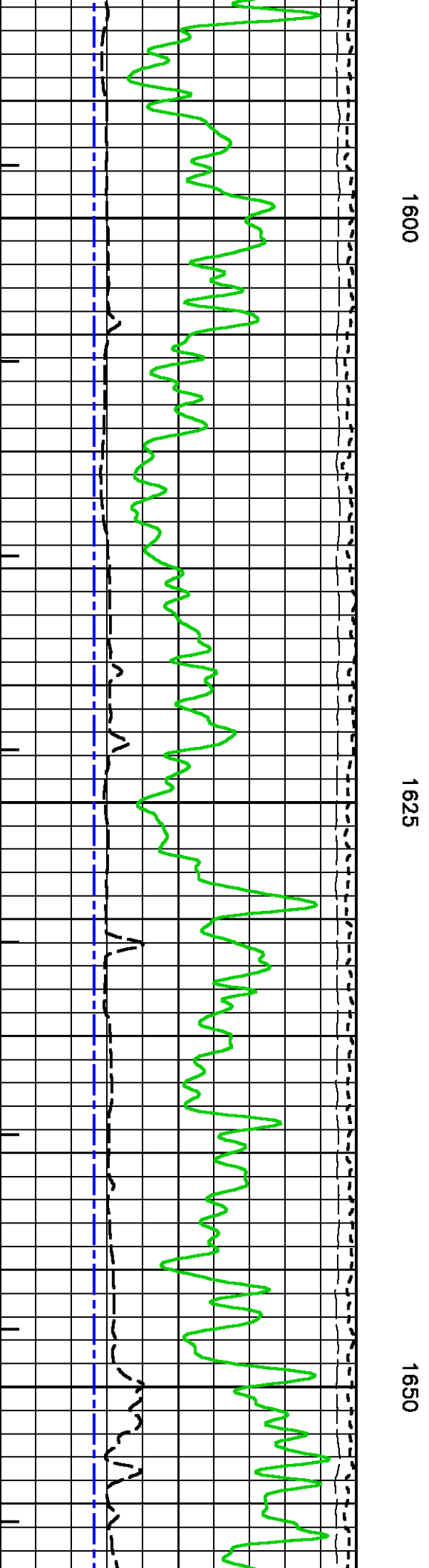
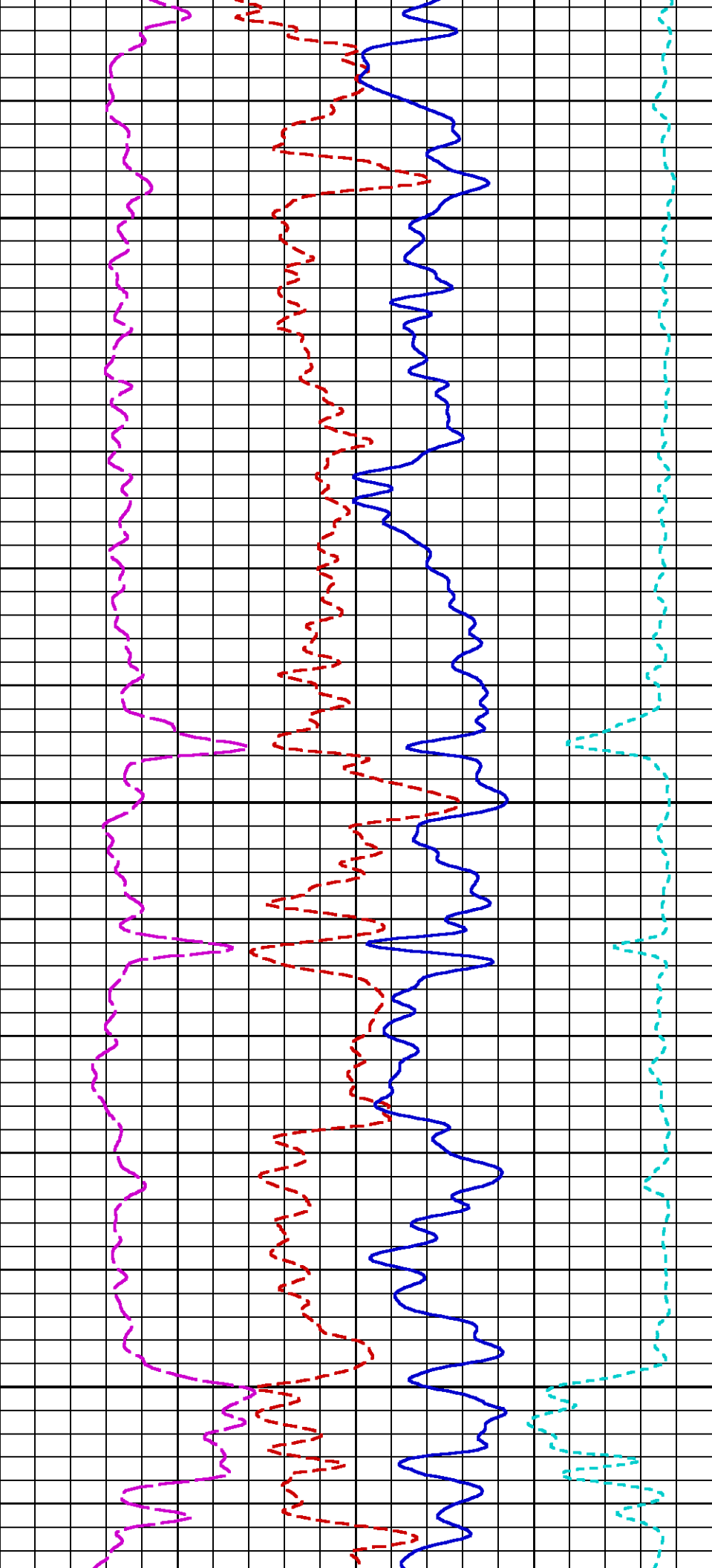


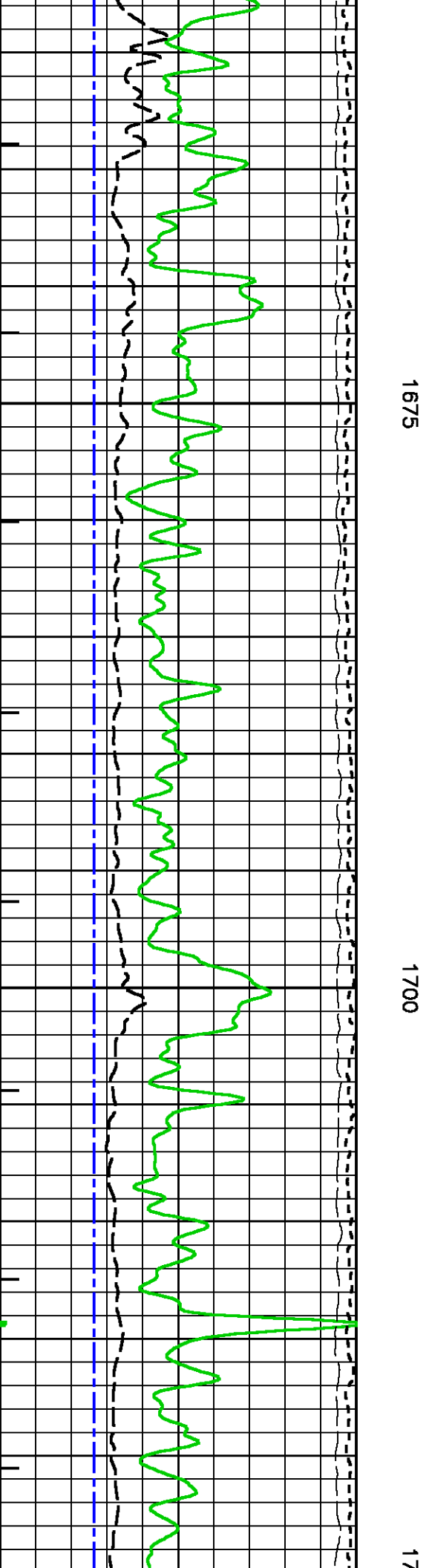
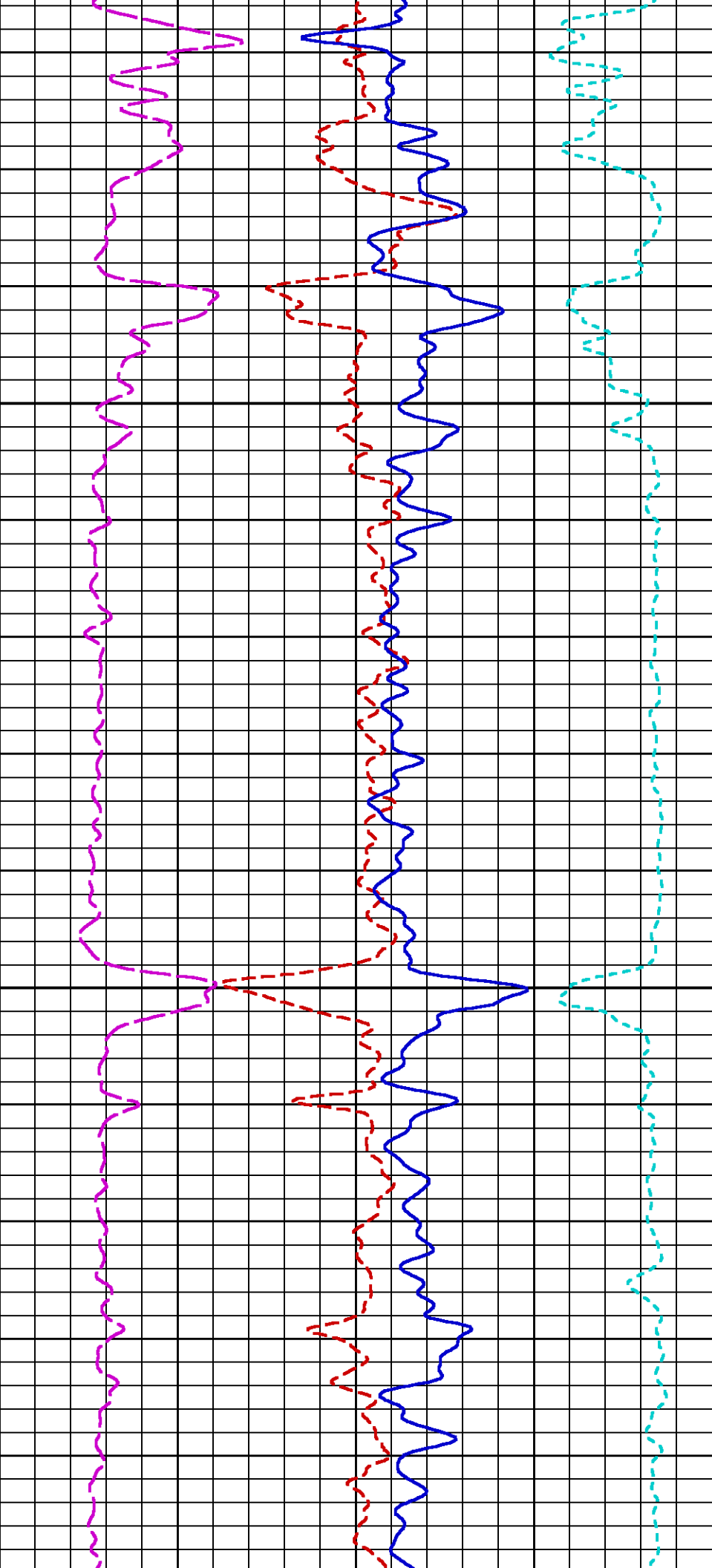
1475

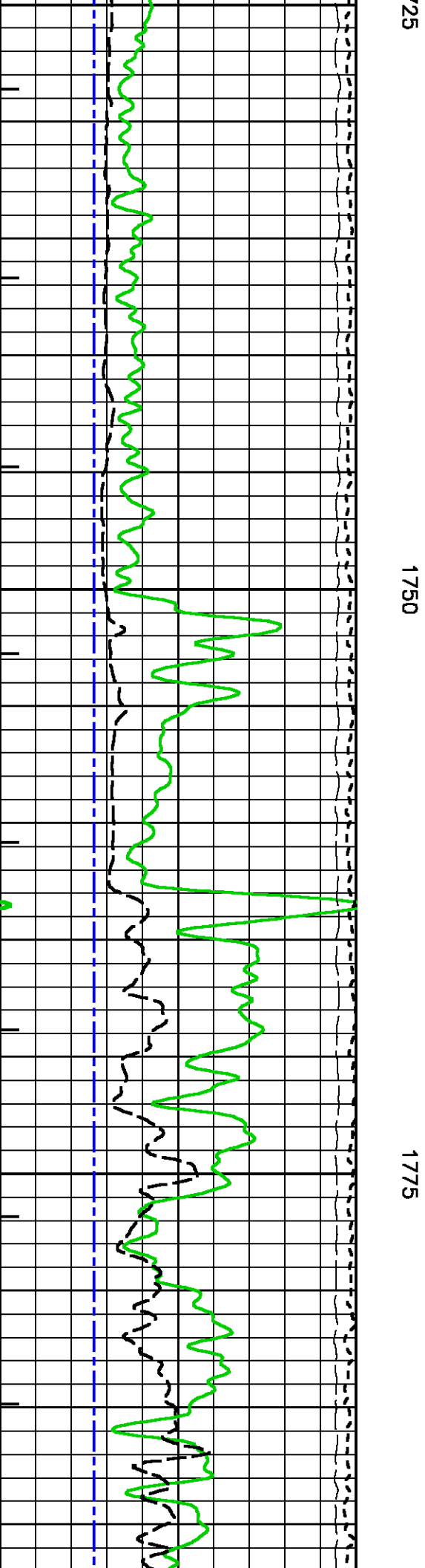
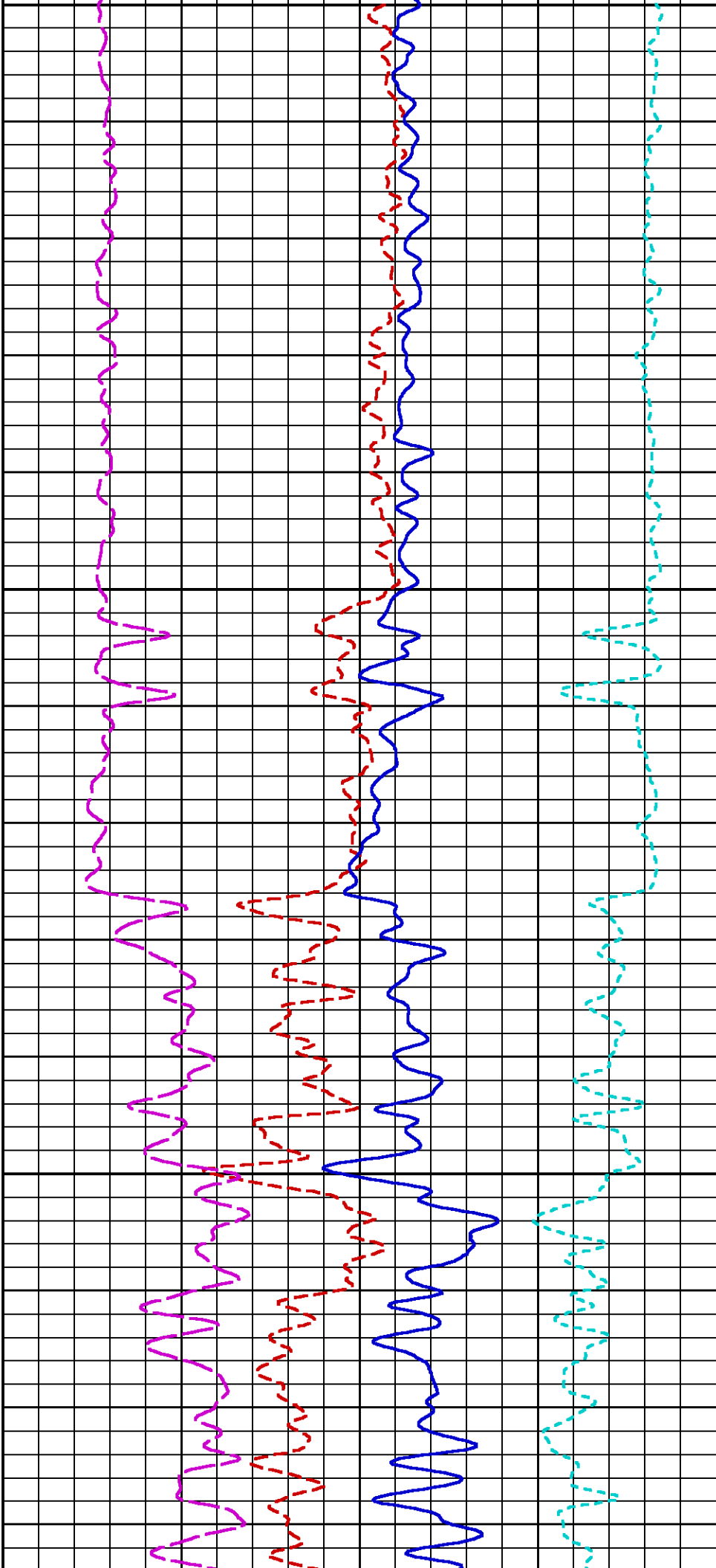
1500

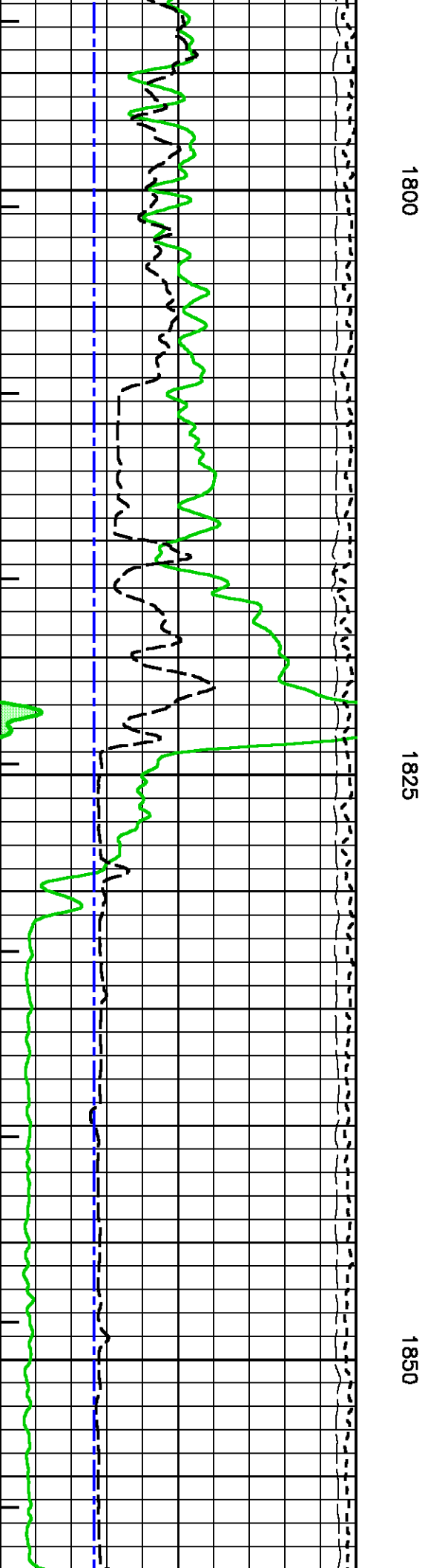
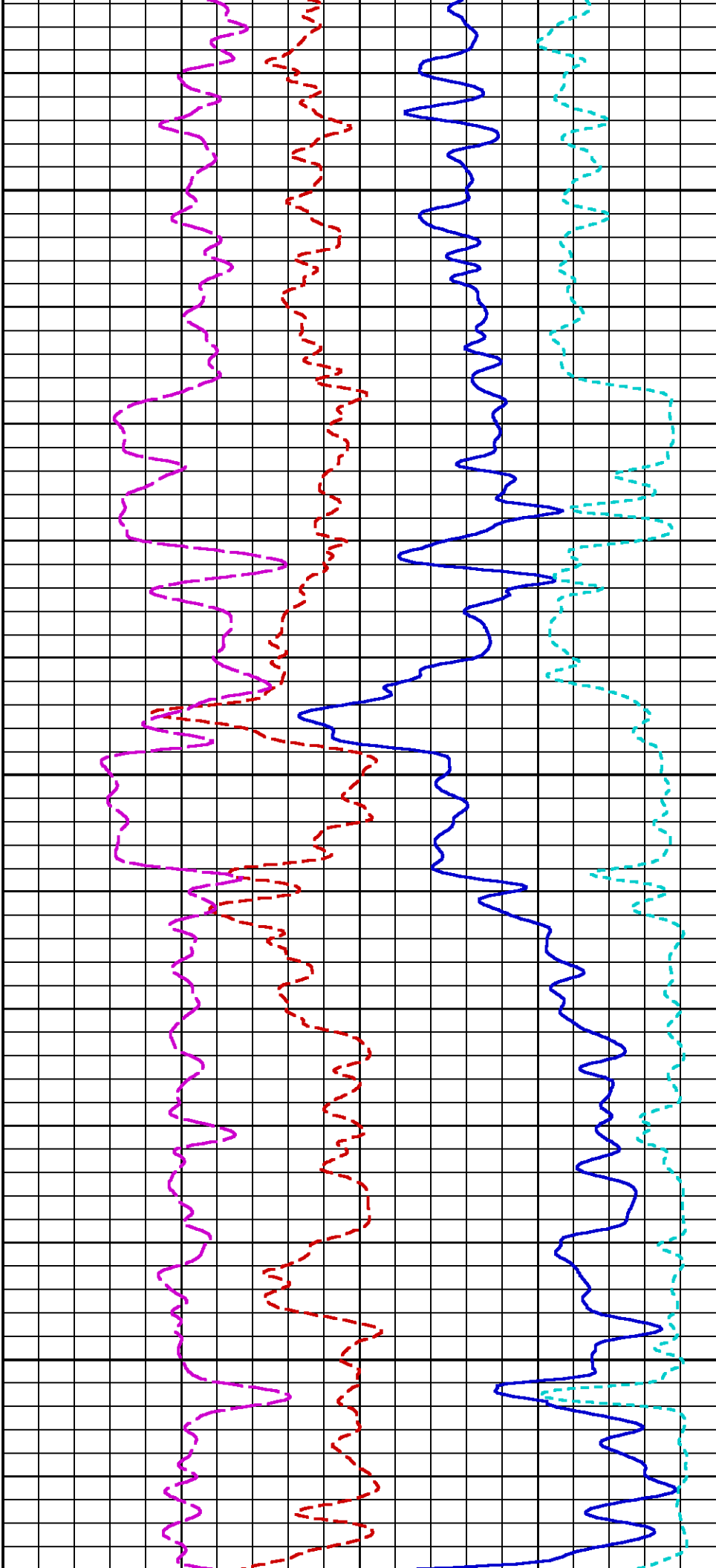


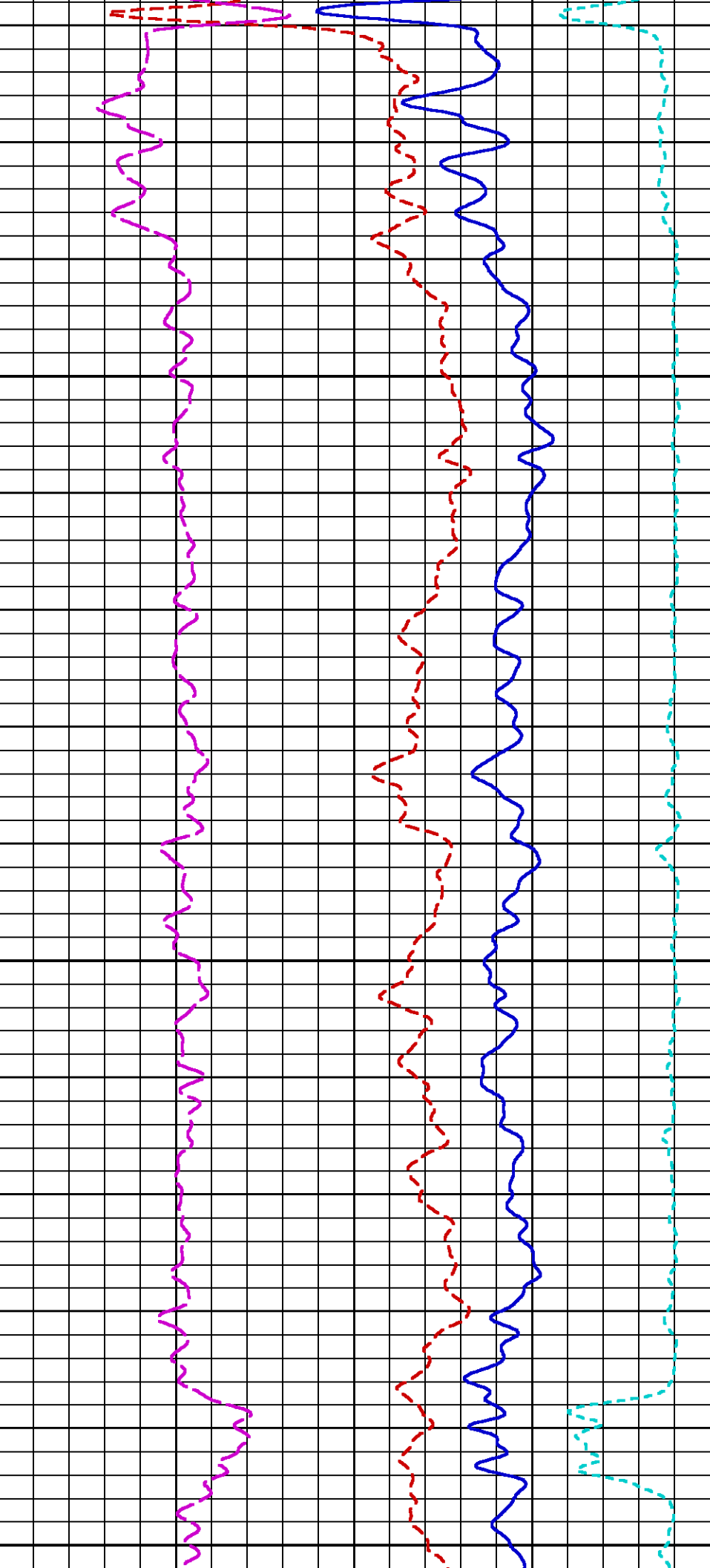








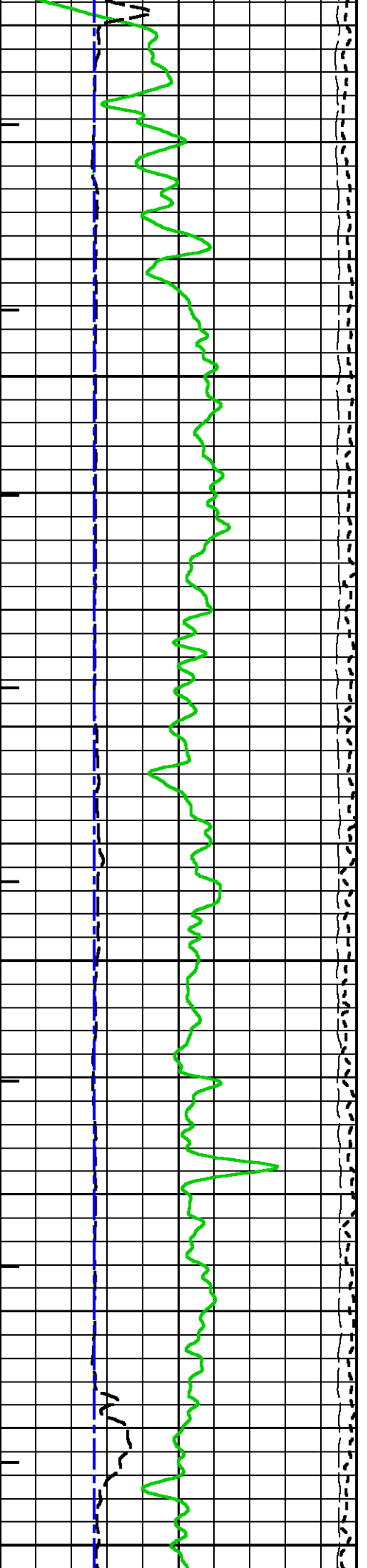


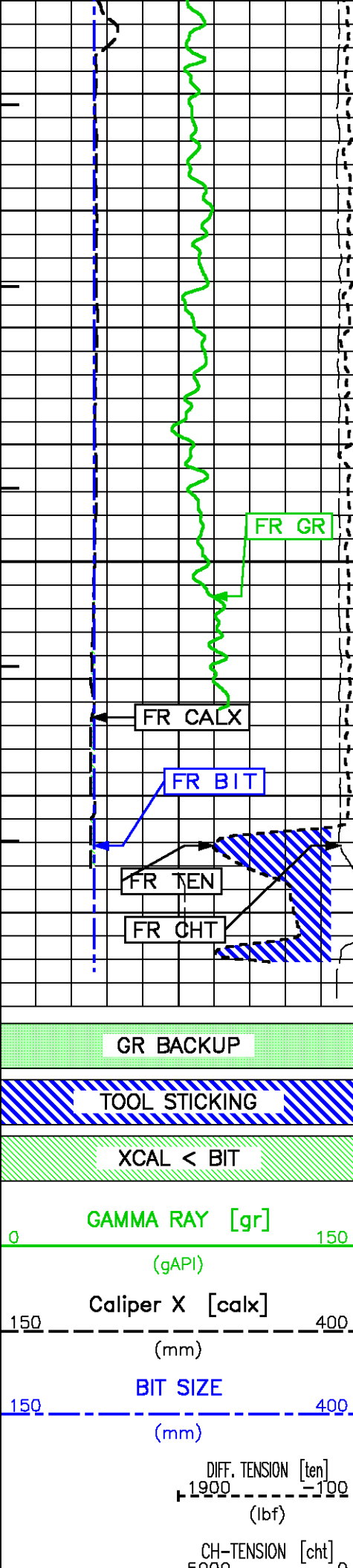


1875

1900

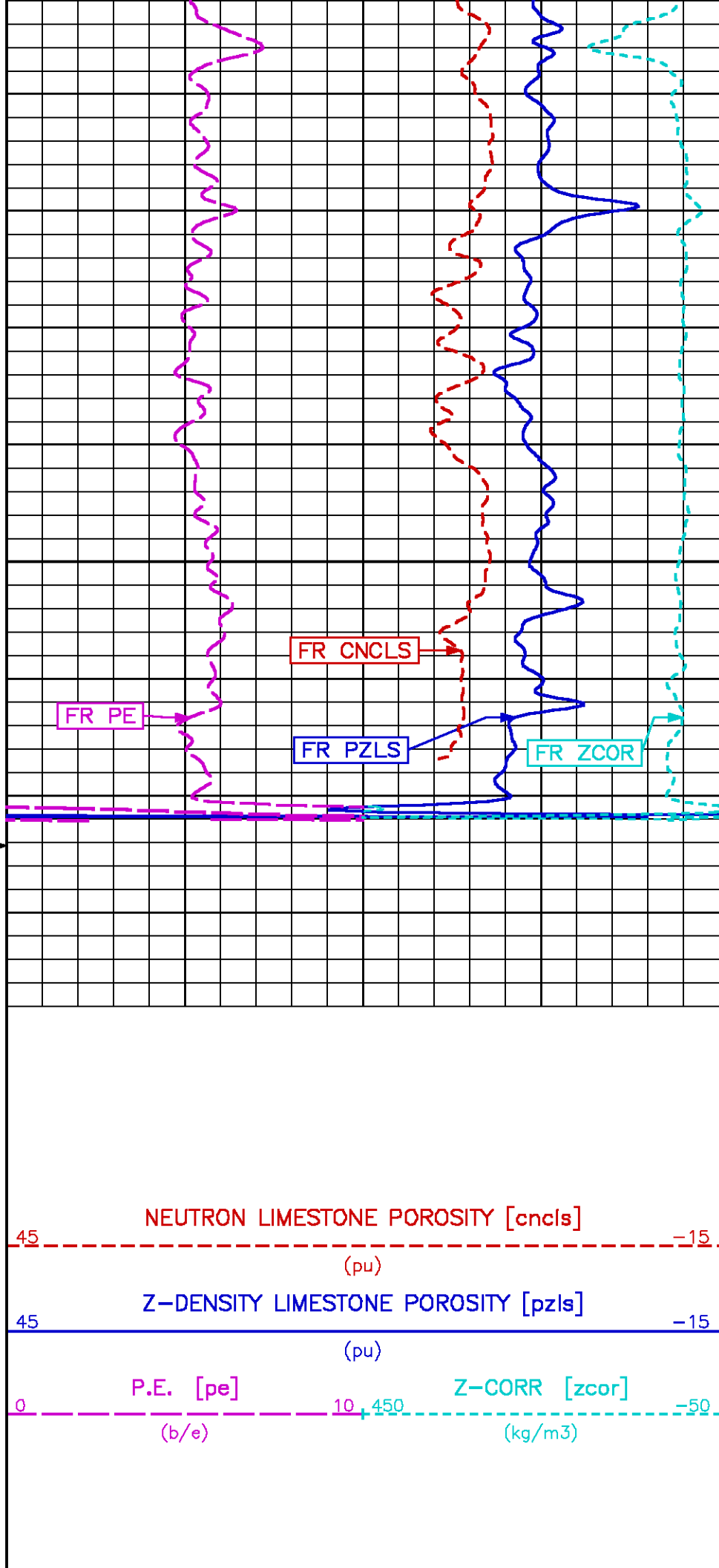
1925





1950

METERS



MINUTE MARK 1	3000 (lbf)	
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REPEAT LOG - SANDSTONE MATRIX

ECLIPS 6.0i Feb 21, 2008
Updates: 1,40,43

Wed Nov 25 15:15:56 2009

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/vulcan/k970a02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 1818.056 m BOTTOM DEPTH: 1965.344 m

SYMMETRIC FILTER

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

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	0.000	mm	TOP	BOTTOM
	CASING THICKNESS	0.000	mm	''	''
BIT SIZE	BIT SIZE	216.000	mm	''	''
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		''	''
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	216.000	mm	''	''

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	200.025	mm	''	''

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DENSITY POROSITY	RHOfluid	1.000	g/cm3	TOP	BOTTOM
	RHOmatrix (sand)	2.650	g/cm3	''	''

CURVE DESCRIPTION REPORT

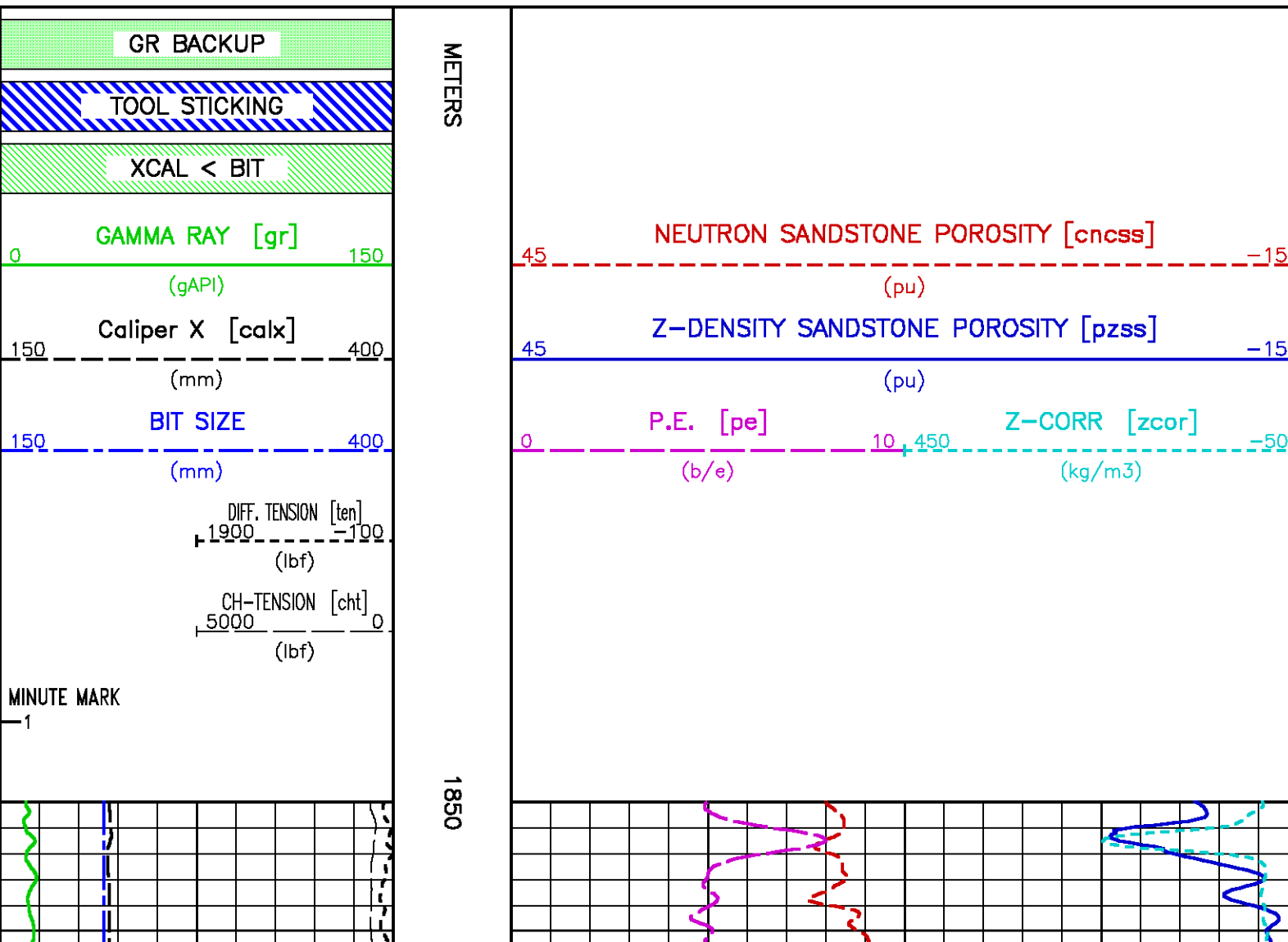
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Nov 25 12:50:11 2009	BIT SIZE
F1:CALX	CALX	Nov 25 12:50:11 2009	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Nov 25 12:50:11 2009	CABLE HEAD TENSION
F1:CNCSS	CNCSS	Nov 25 12:50:11 2009	BH SIZE CORR. SANDSTONE COMPENSATED NEUTRON POROSITY
F1:GR	GR	Nov 25 12:50:11 2009	GAMMA RAY
F1:MMRK	MMRK	Nov 25 12:50:11 2009	MINUTE MARK
F1:PE	PE	Nov 25 12:50:11 2009	PHOTO ELECTRIC CROSS-SECTION
F1:PZSS	PZSS	Nov 25 12:50:11 2009	POROSITY FOR SANDSTONE MATRIX
F1:TEN	TEN	Nov 25 12:50:11 2009	DIFFERENTIAL TENSION
F1:ZCOR	ZCOR	Nov 25 12:50:11 2009	DENSITY CORRECTION

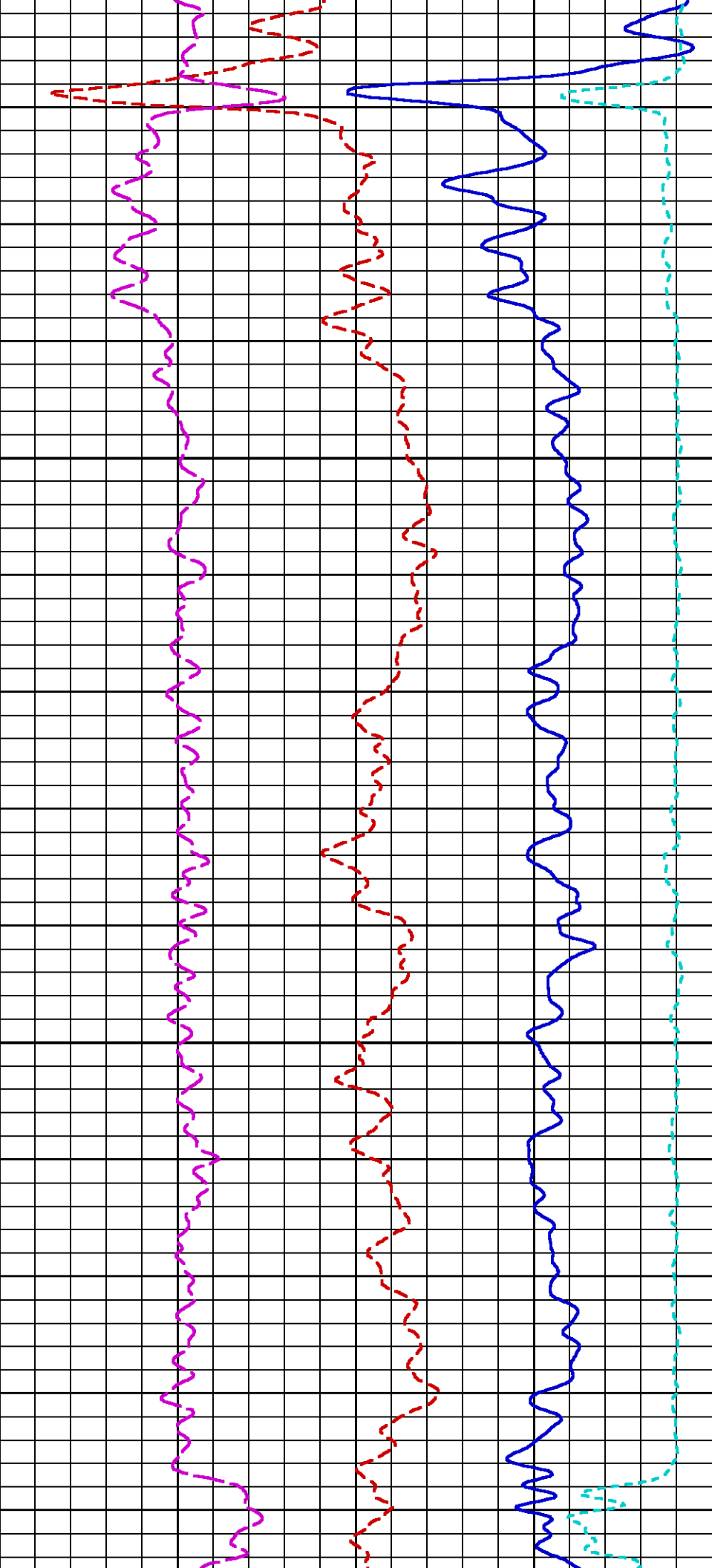
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CNCSS	8.34	PZSS	5.49		
CALX	5.49	GR	10.67	TEN	0.00		
CHT	0.00	PE	5.49	ZCOR	5.49		

Presentation : cpu1:/dat1a/pass/vulcan/fzdL_rpt_ss.pdf [1:240 Scale]
 Plot Interval : 1850 - 1966.49 Meters

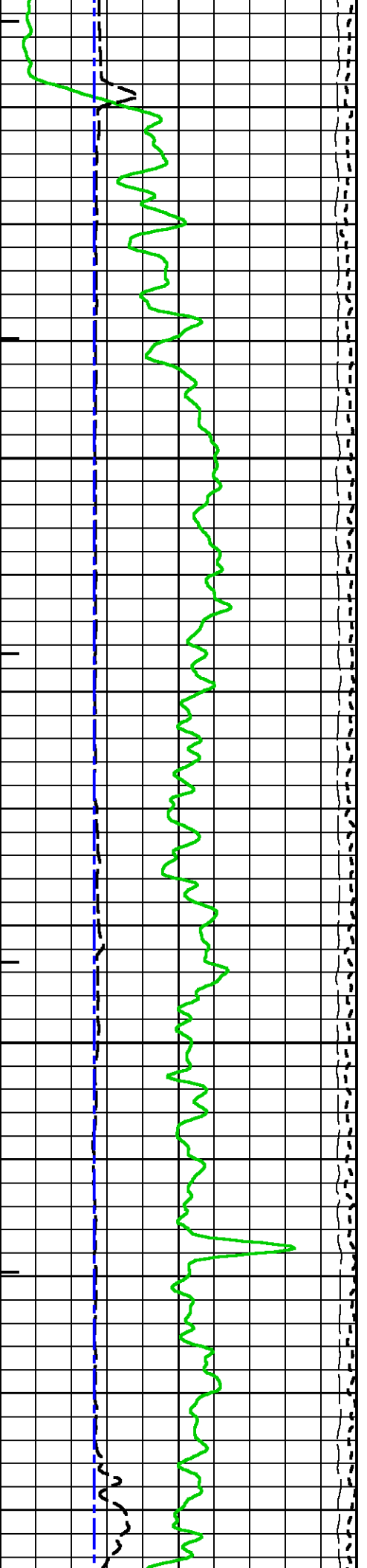
Data File 1 : F1 : cpu1:/dat1a/pass/vulcan/rpt.xtf
 Created On : Nov 25 12:50:11 2009
 Company : VULCAN MINERALS INC.
 Well : VULCAN INVESTCAN RED BROOK #2
 Field : RED BROOK
 File Interval : 0 - 1971.14 Meters
 Oct : k970a

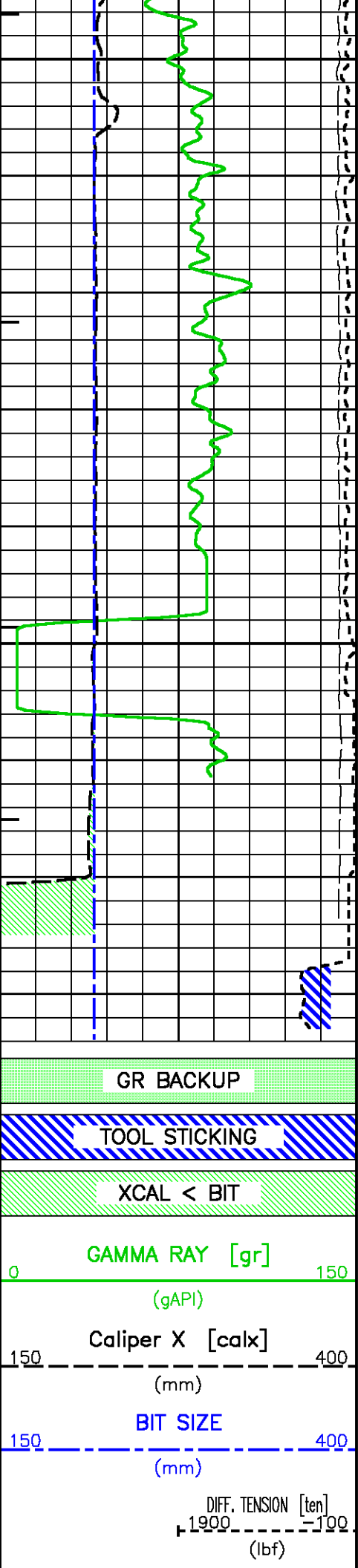




1875

1900

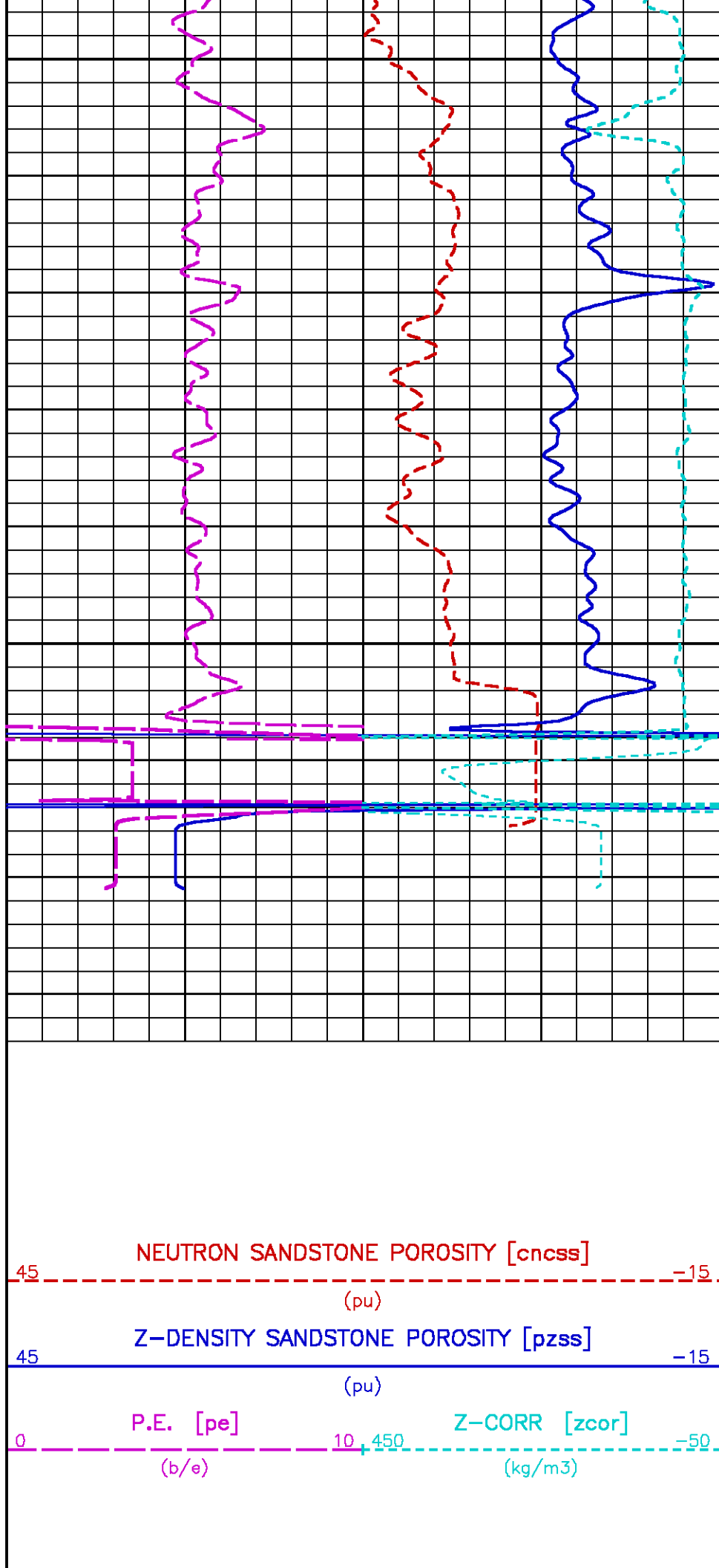




1925

1950

METERS



CH-TENSION [cht]
5000 ——— 0
(lbf)

MINUTE MARK
1

HIGH RESOLUTION LOG - SANDSTONE MATRIX

ECLIPS 6.0i Feb 21, 2008
Updates: 1,40,43

Wed Nov 25 17:10:44 2009

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/vulcan/k970a03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 796.816 m BOTTOM DEPTH: 1967.491 m

SYMMETRIC FILTER

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

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	0.000	mm	TOP	BOTTOM
	CASING THICKNESS	0.000	mm	''	''
BIT SIZE	BIT SIZE	216.000	mm	''	''
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		''	''
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	216.000	mm	''	''

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	ON		TOP	878.662
		OFF		878.662	BOTTOM
	BIT SIZE BEHIND CSNG	311.000	mm	TOP	879.881
		200.025	mm	879.881	BOTTOM

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
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MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DENSITY POROSITY	RHOfluid RHOmatrix (sand)	1.000 2.650	g/cm3 g/cm3	TOP "	BOTTOM "

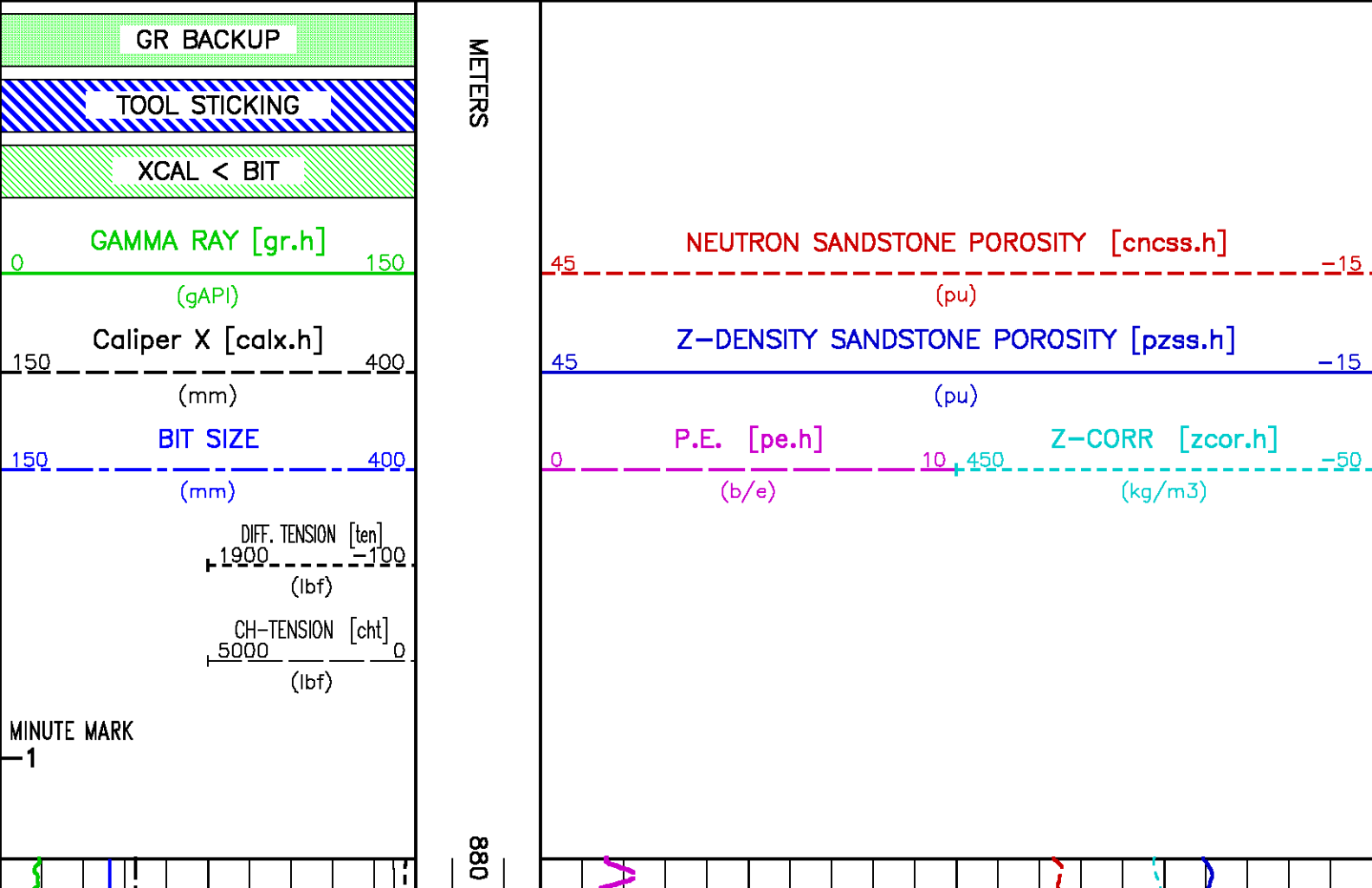
CURVE DESCRIPTION REPORT

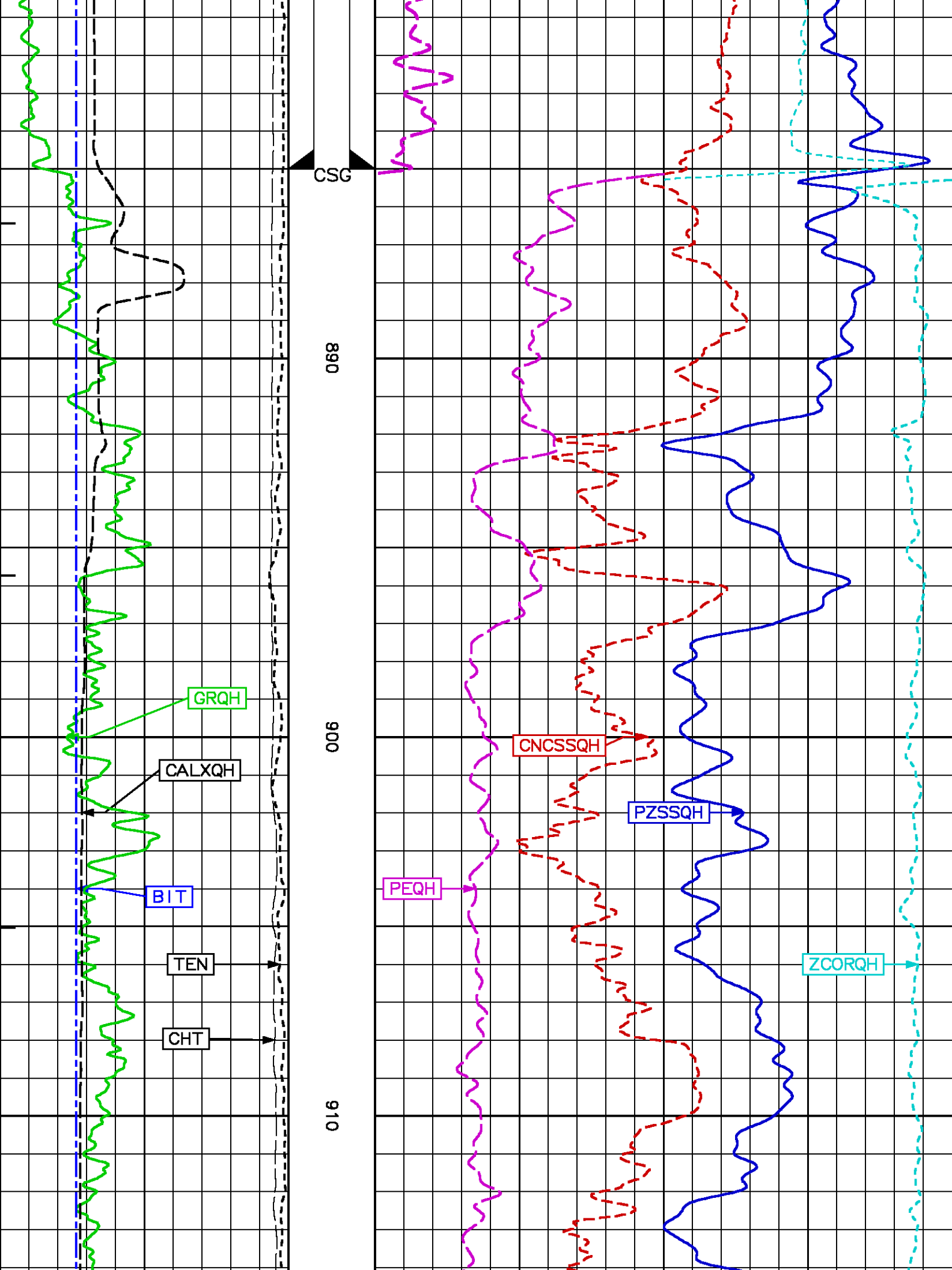
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Nov 25 13:16:58 2009	BIT SIZE
F1:CALXQH	CALX.H	Nov 25 13:16:58 2009	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Nov 25 13:16:58 2009	CABLE HEAD TENSION
F1:CNCSSQH	CNCSS.H	Nov 25 13:16:58 2009	BH SIZE CORR. SANDSTONE COMPENSATED NEUTRON POROSITY
F1:GRQH	GR	Nov 25 13:16:58 2009	GAMMA RAY
F1:MMRK	MMRK	Nov 25 13:16:58 2009	MINUTE MARK
F1:PEQH	PE.H	Nov 25 13:16:58 2009	PHOTO ELECTRIC CROSS-SECTION
F1:PZSSQH	PZSS.H	Nov 25 13:16:58 2009	POROSITY FOR SANDSTONE MATRIX
F1:TEN	TEN	Nov 25 13:16:58 2009	DIFFERENTIAL TENSION
F1:ZCORQH	ZCOR.H	Nov 25 13:16:58 2009	DENSITY CORRECTION

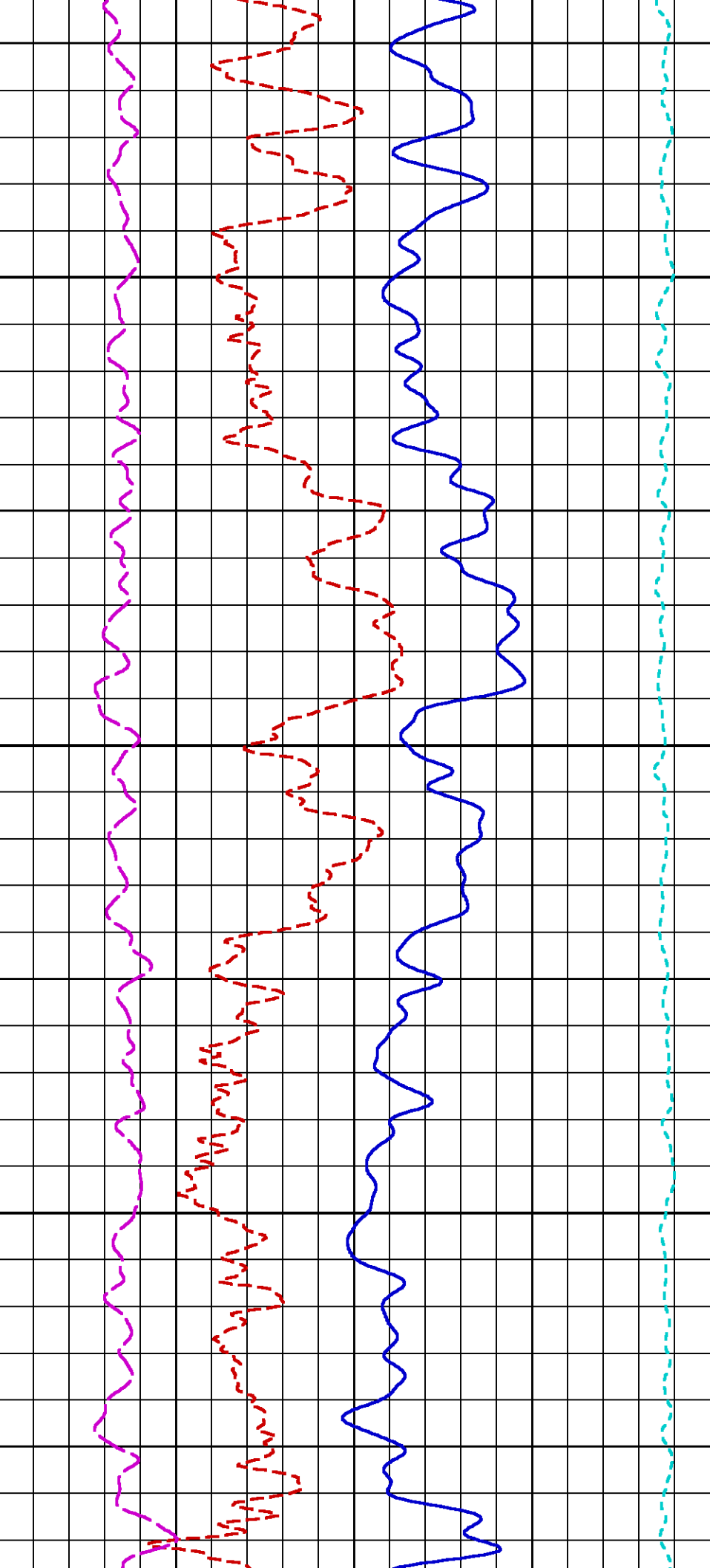
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CNCSSQH	8.34	PZSSQH	5.52		
CALXQH	5.52	GRQH	10.67	TEN	0.00		
CHT	0.00	PEQH	5.52	ZCORQH	5.52		

Presentation	: cpu1:/dat1a/pass/vulcan/fzdLhires_ss.pdf [1:120 Scale]
Plot Interval	: 880 - 1968.93 Meters
Data File 1	: F1 : cpu1:/dat1a/pass/vulcan/main.xtf
Created On	: Nov 25 13:16:58 2009
Company	: VULCAN MINERALS INC.
Well	: VULCAN INVESTCAN RED BROOK #2
Field	: RED BROOK
File Interval	: 789.889 - 1968.93 Meters
Oct	: k970a



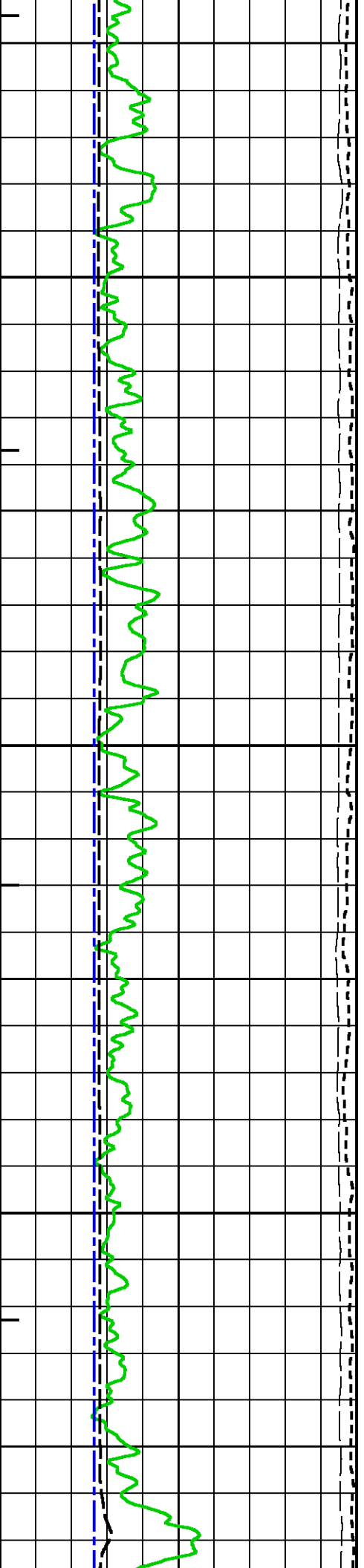


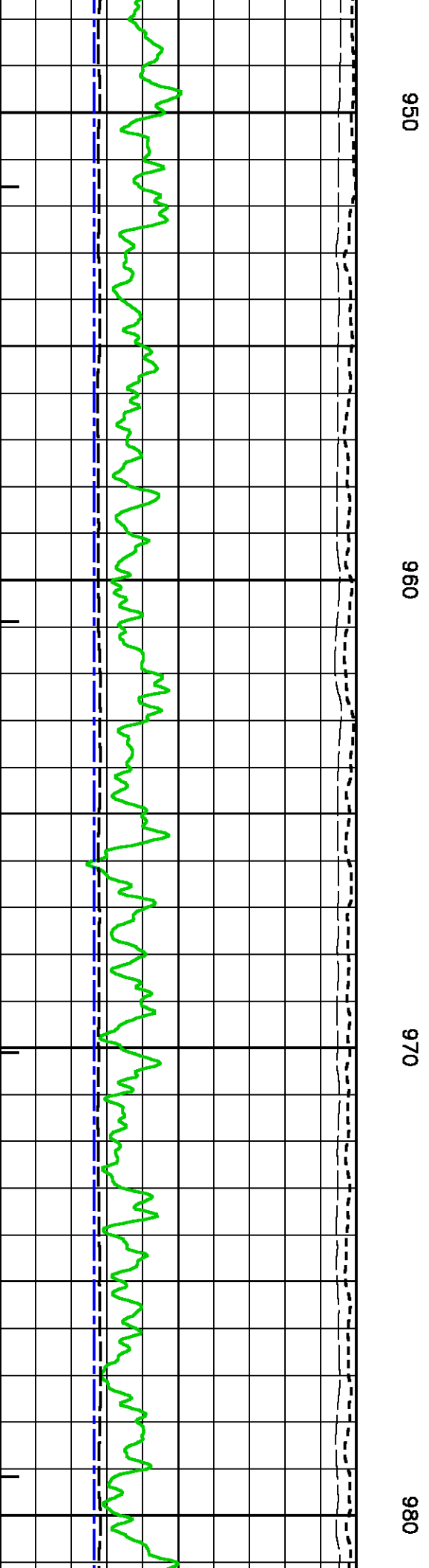
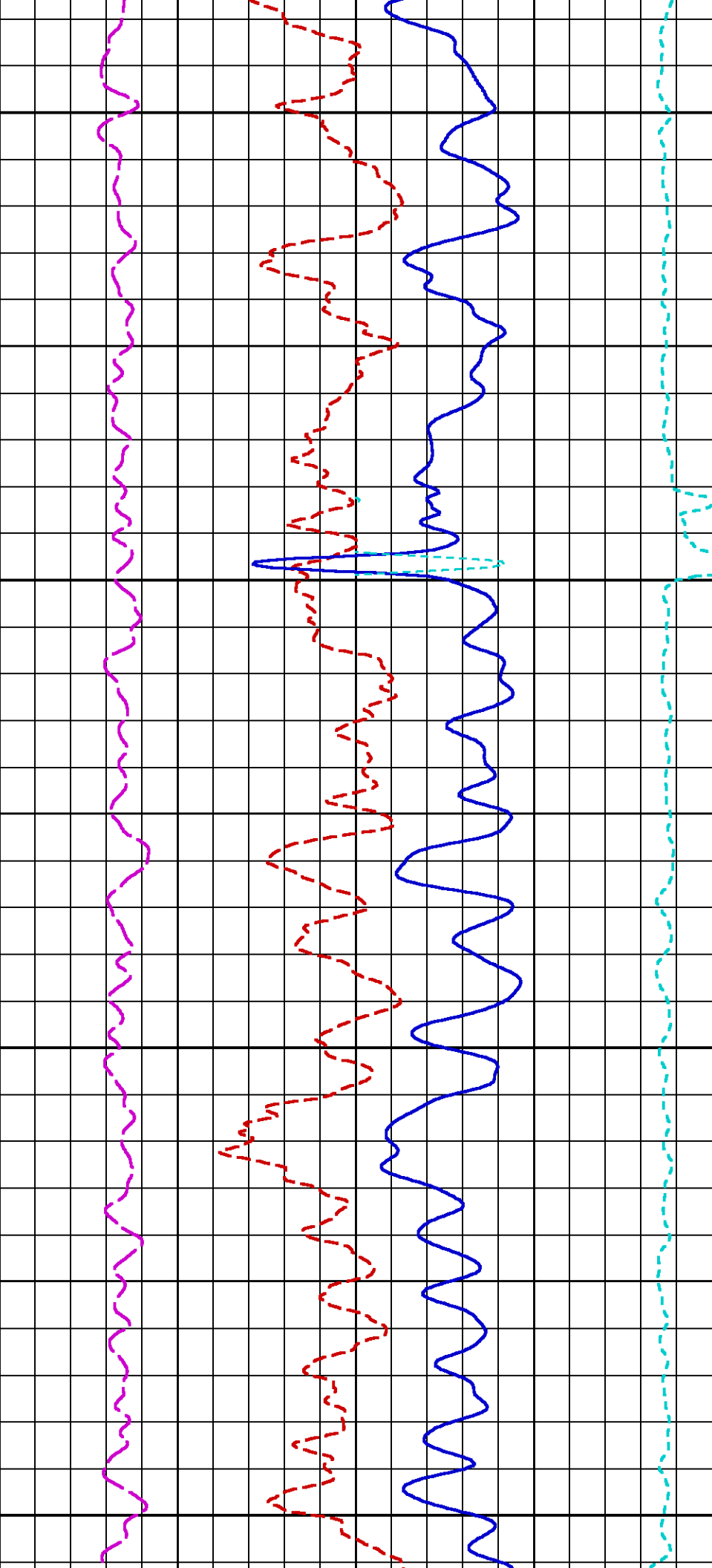


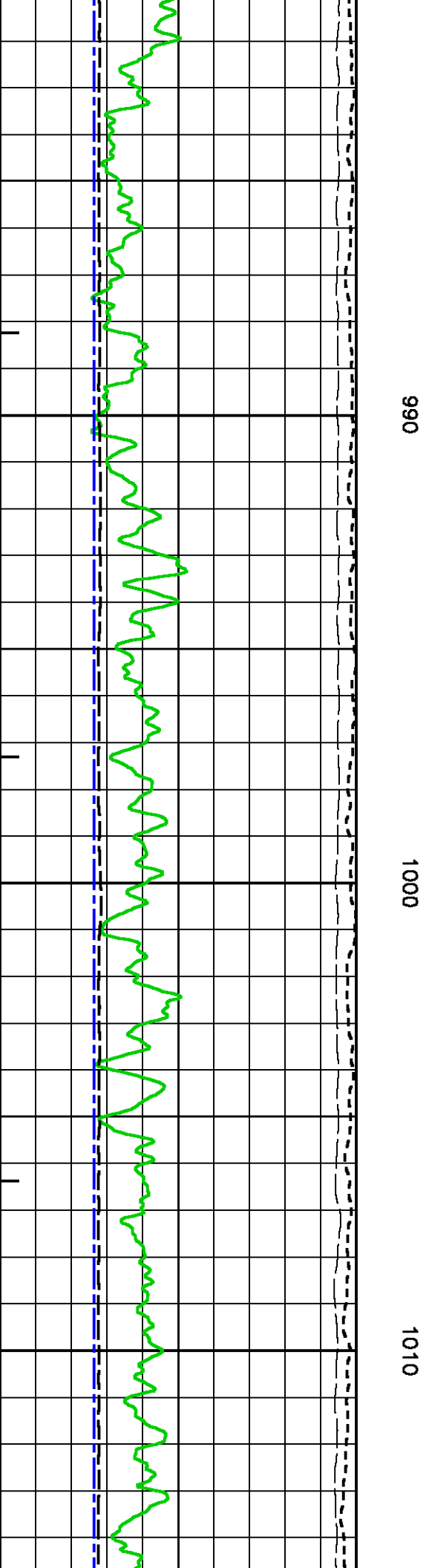
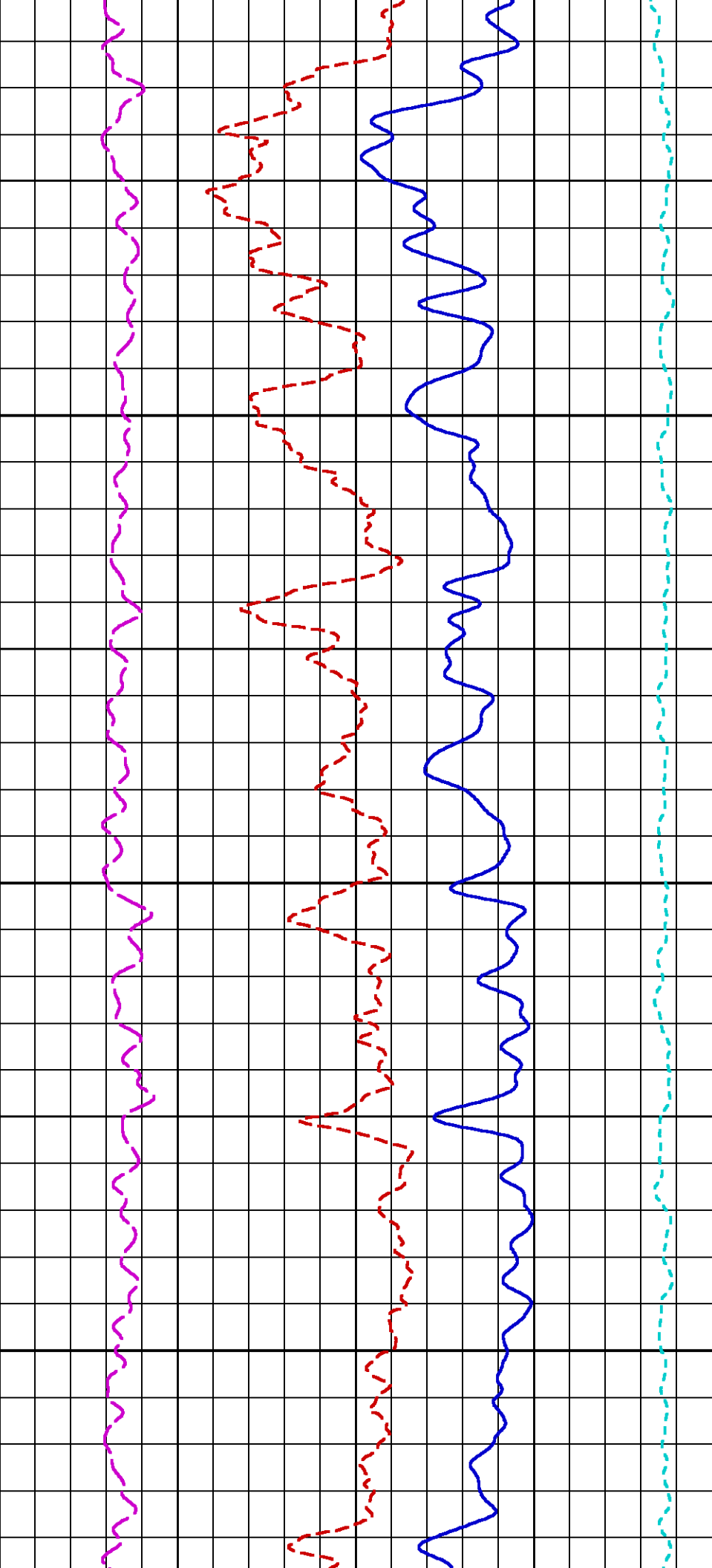
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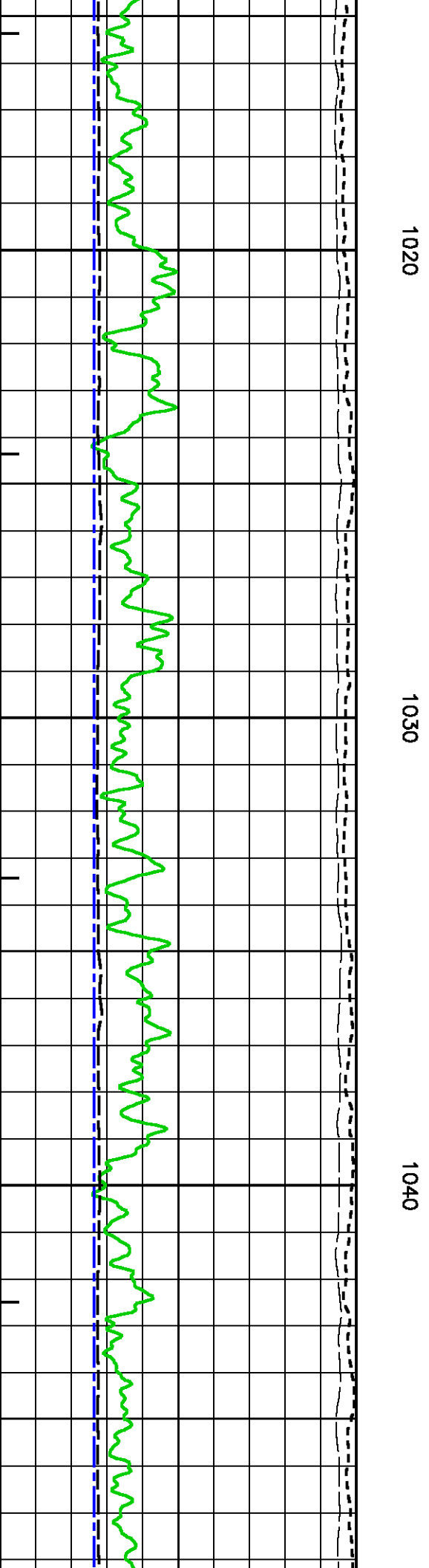
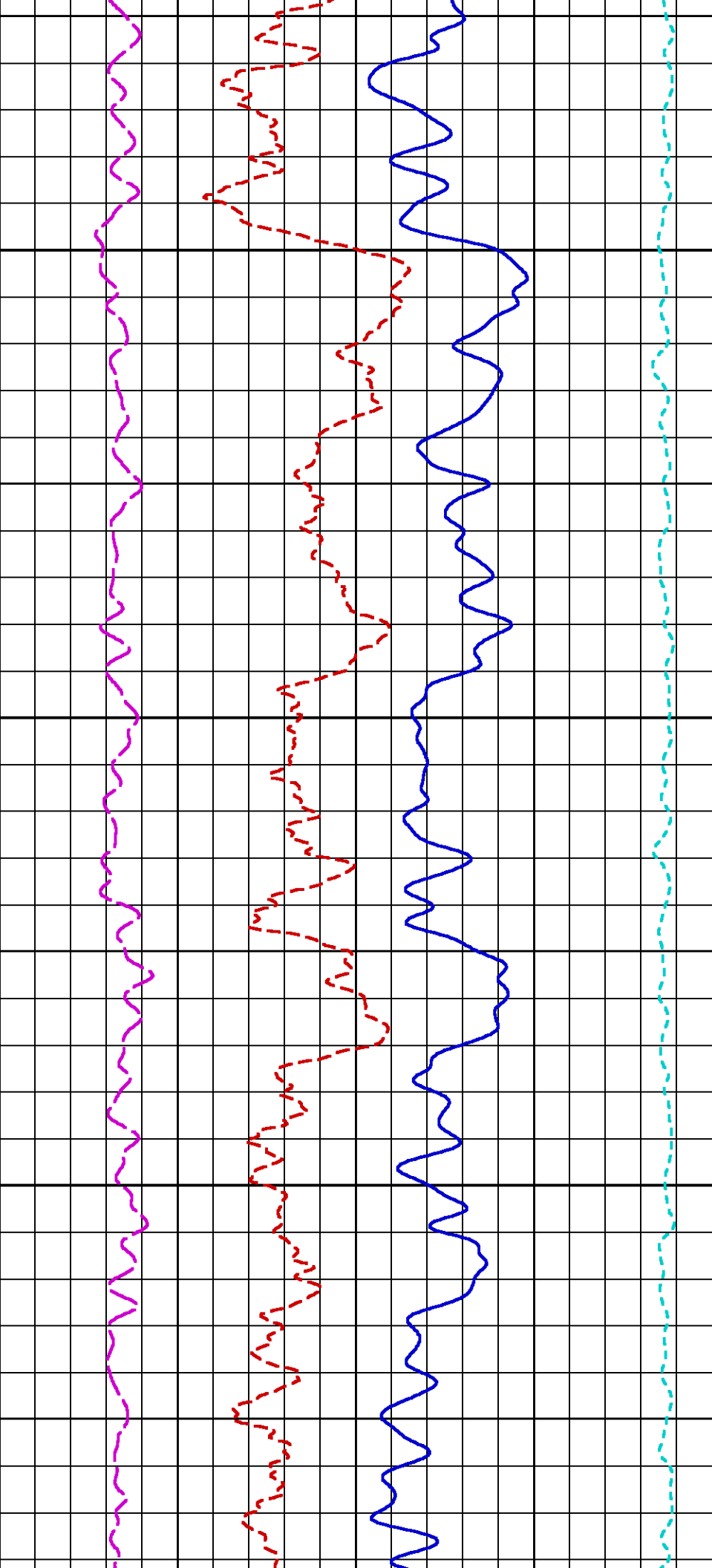
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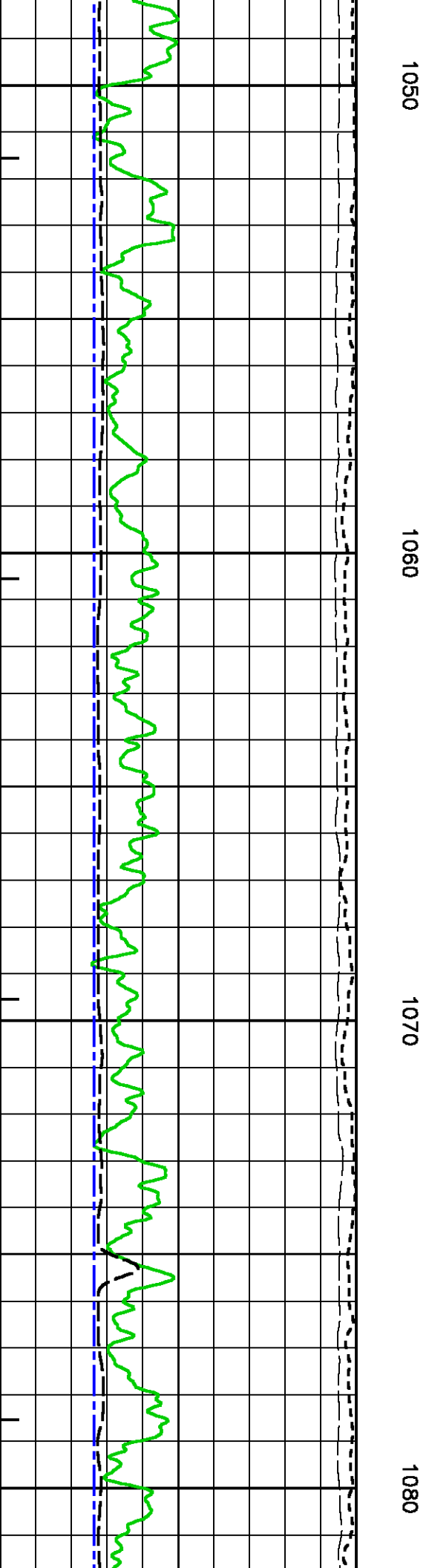
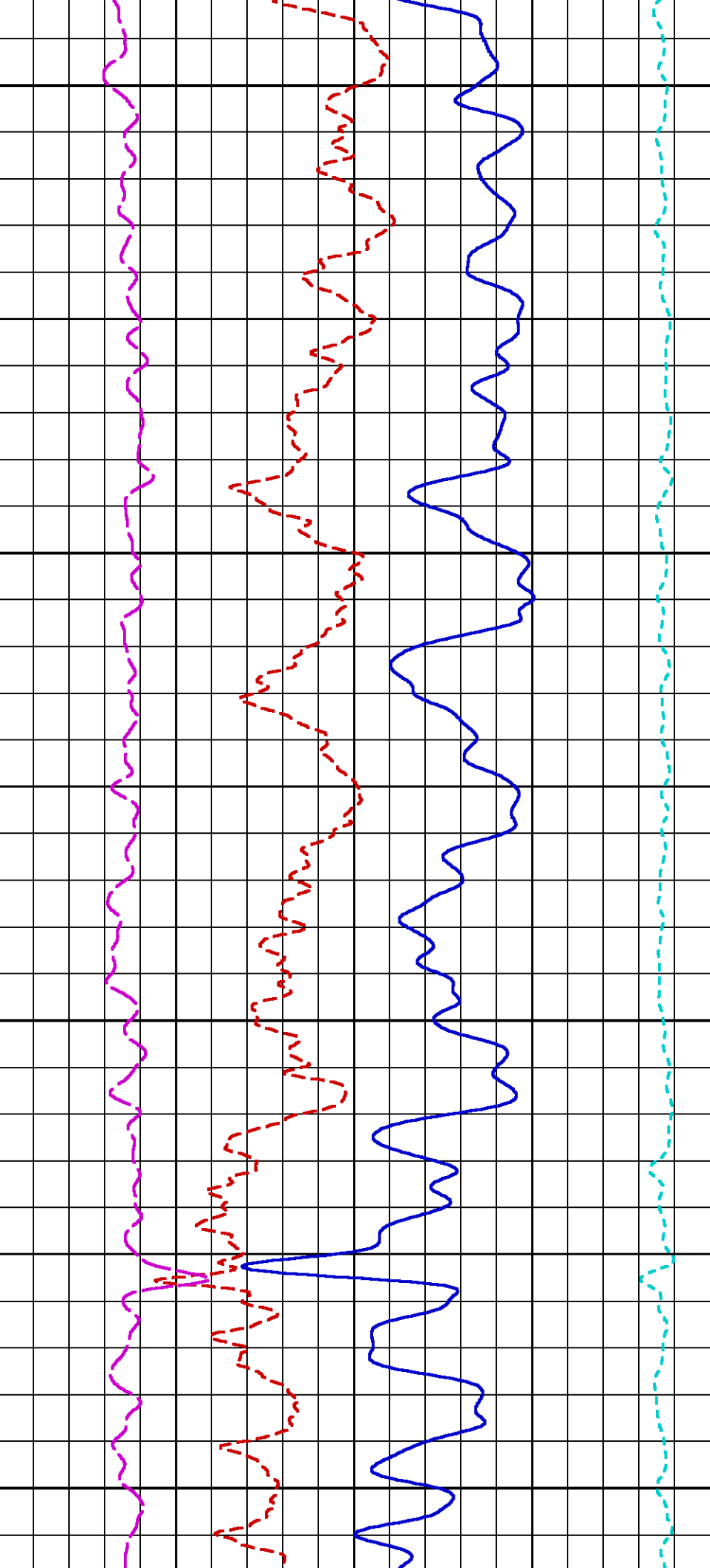
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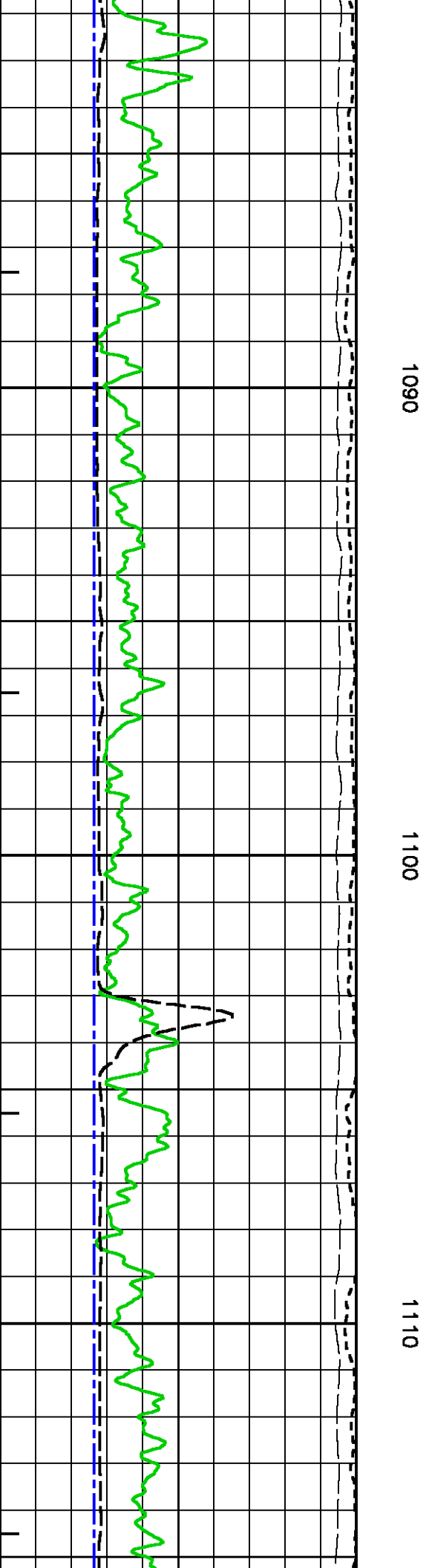
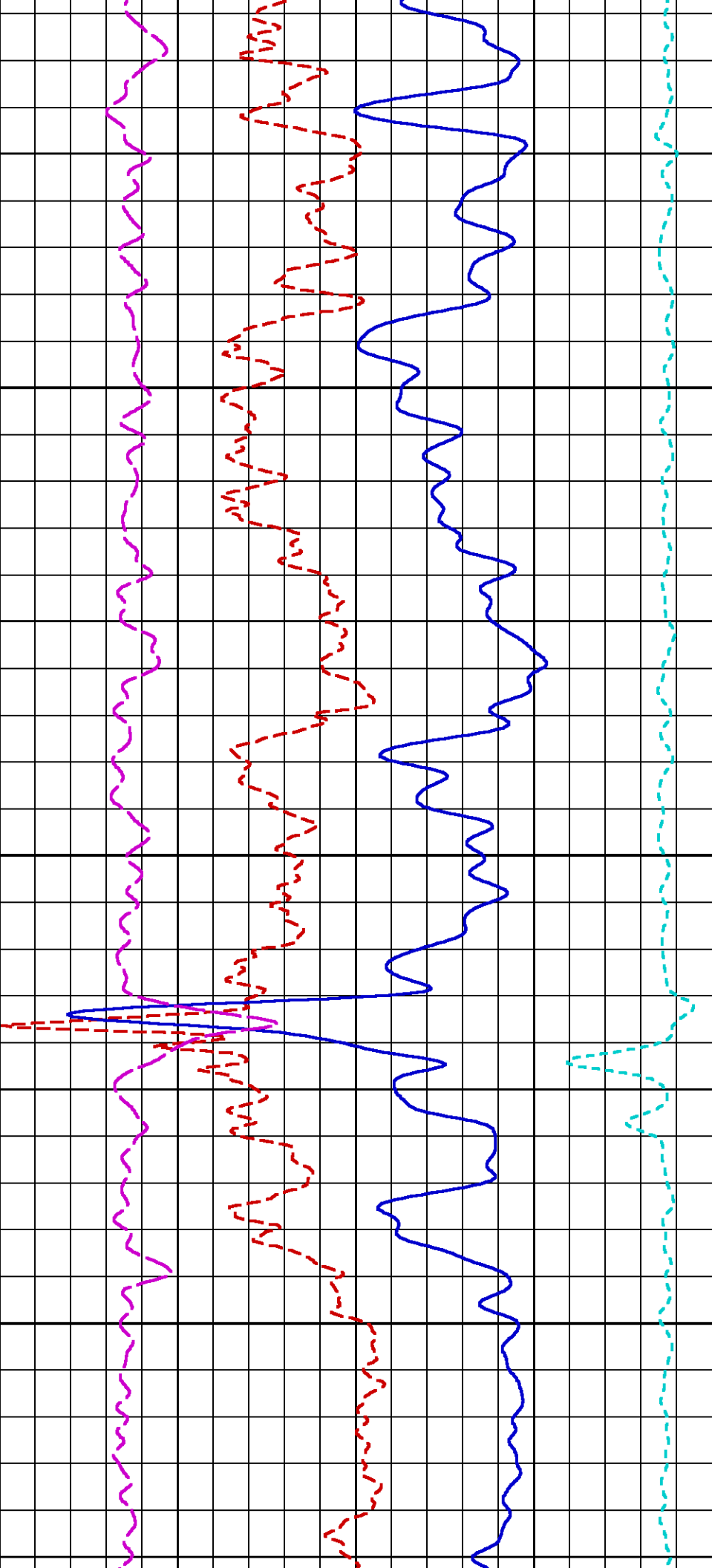


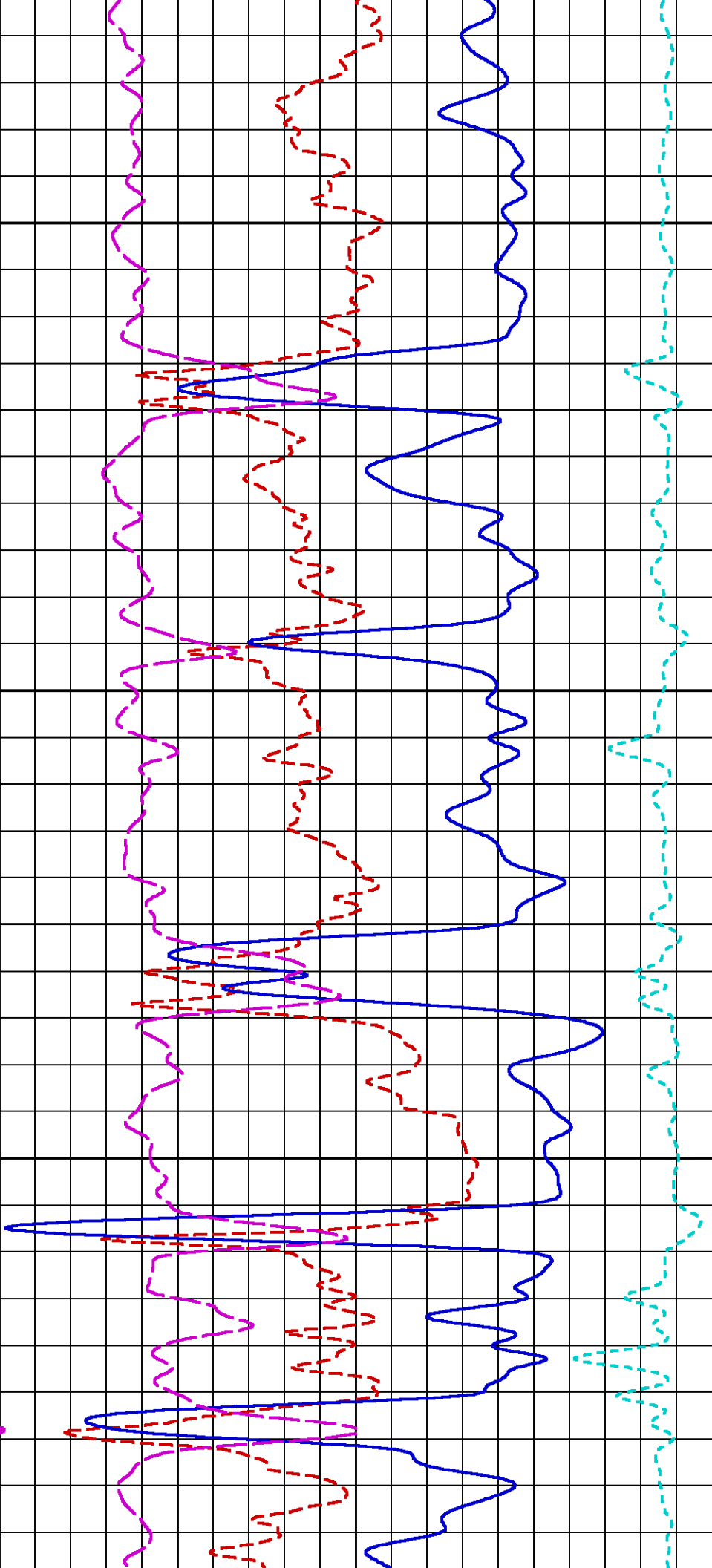








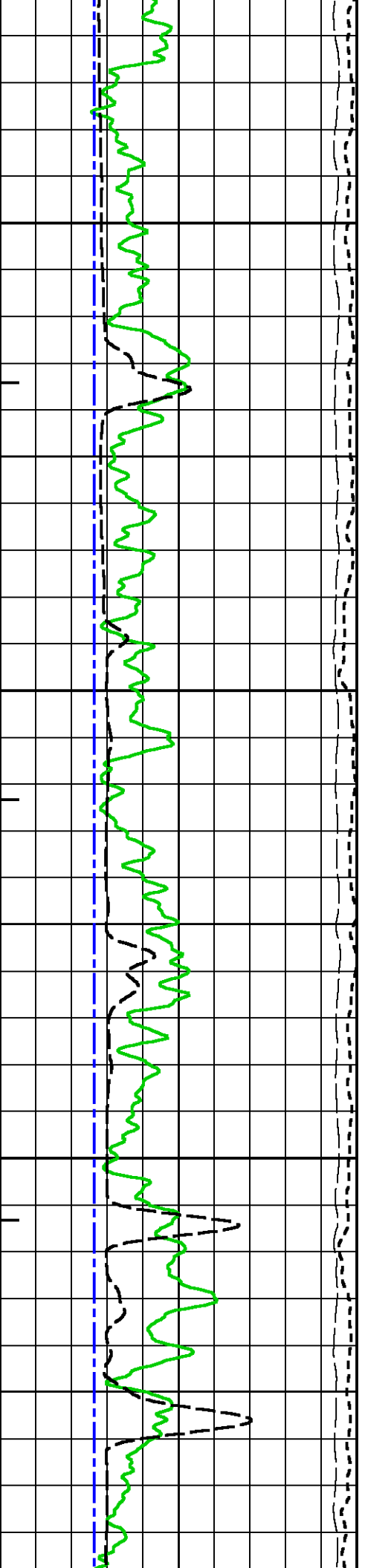


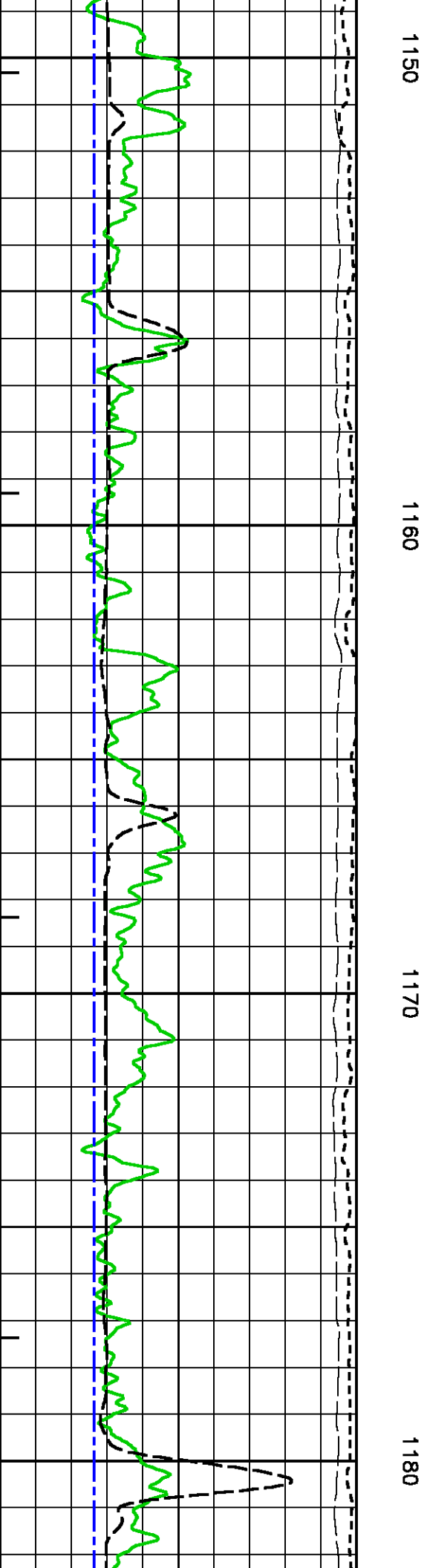
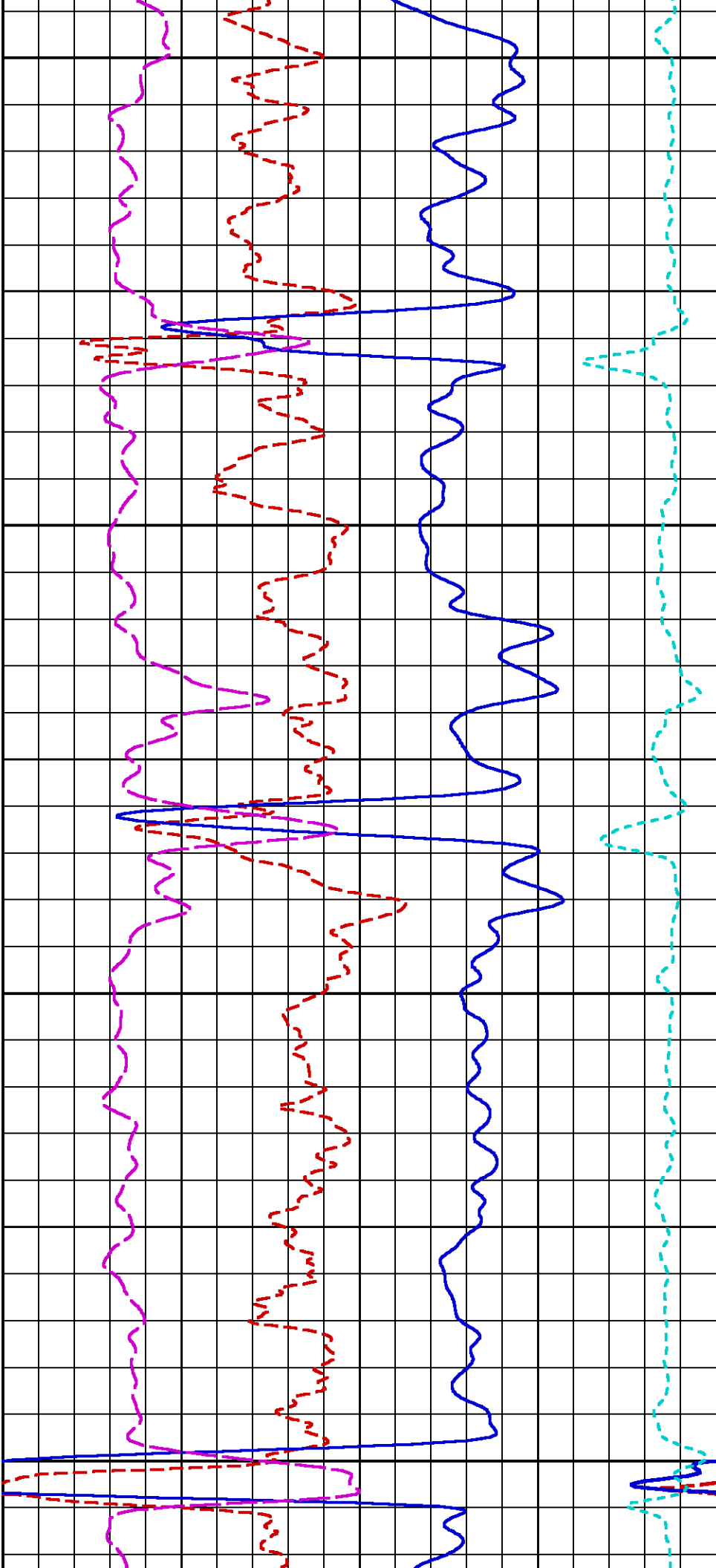


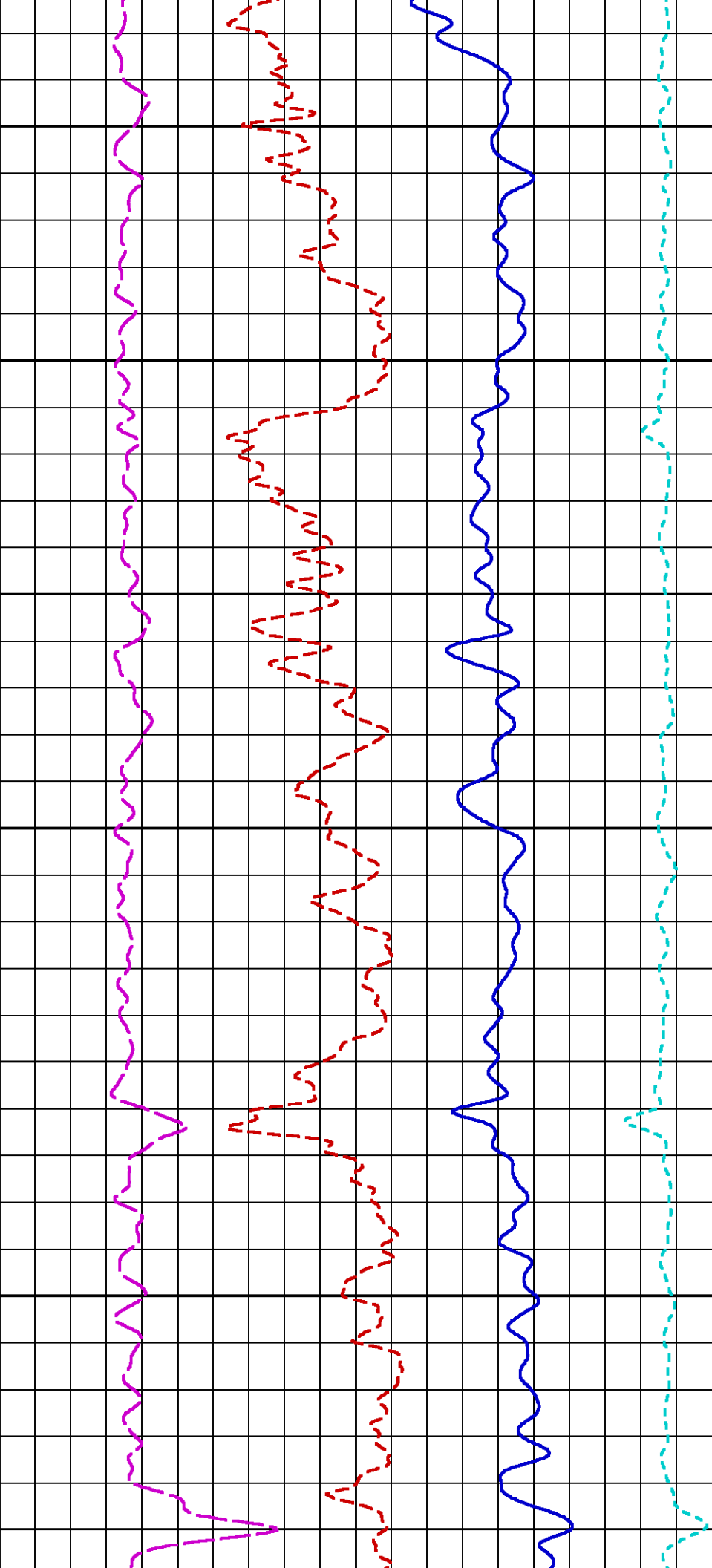
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1130

1140



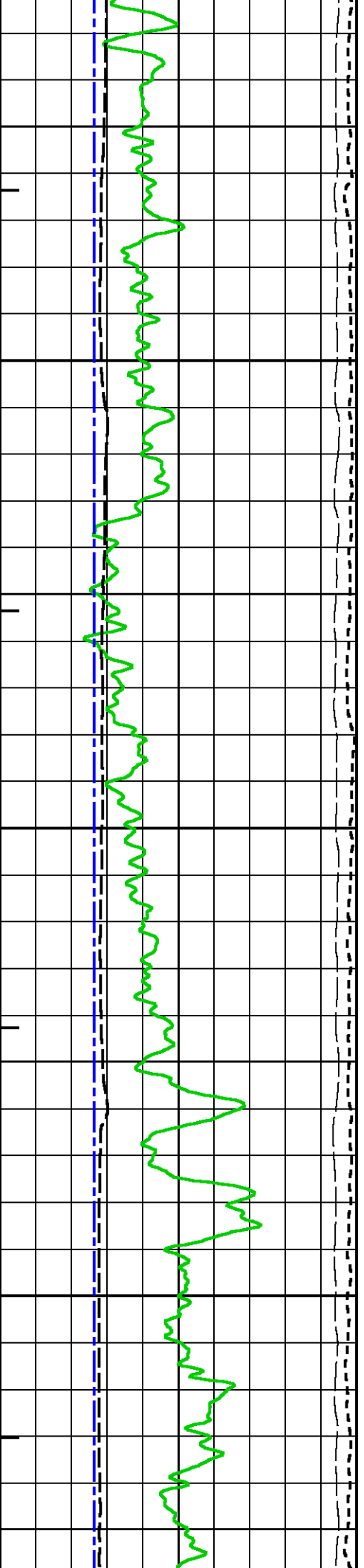


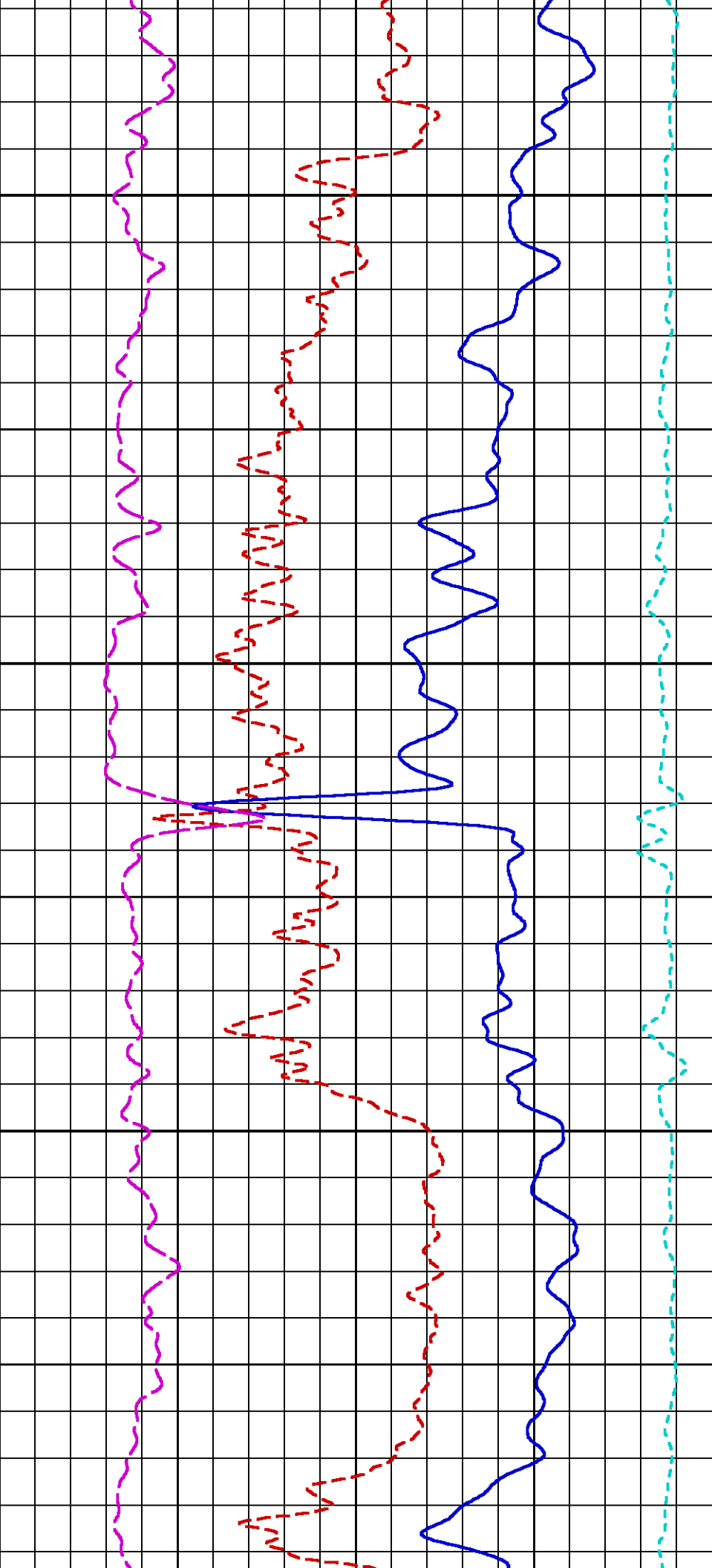


1190

1200

1210

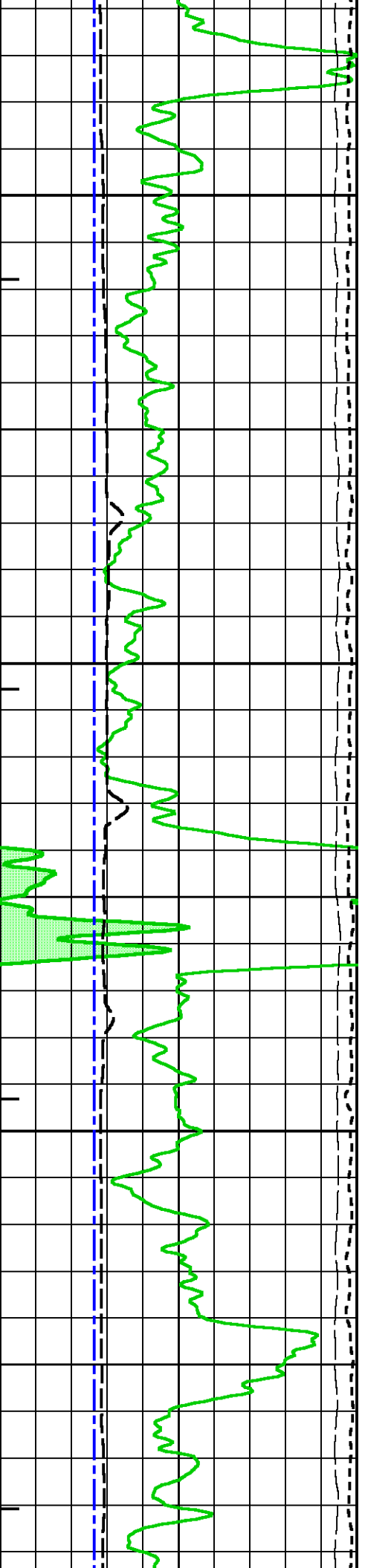


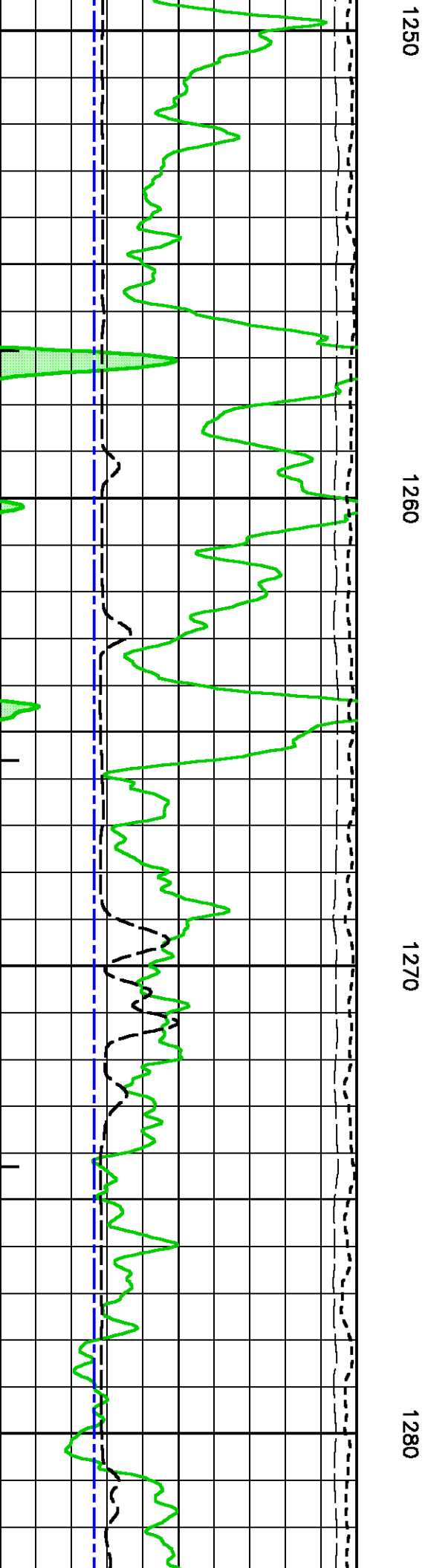
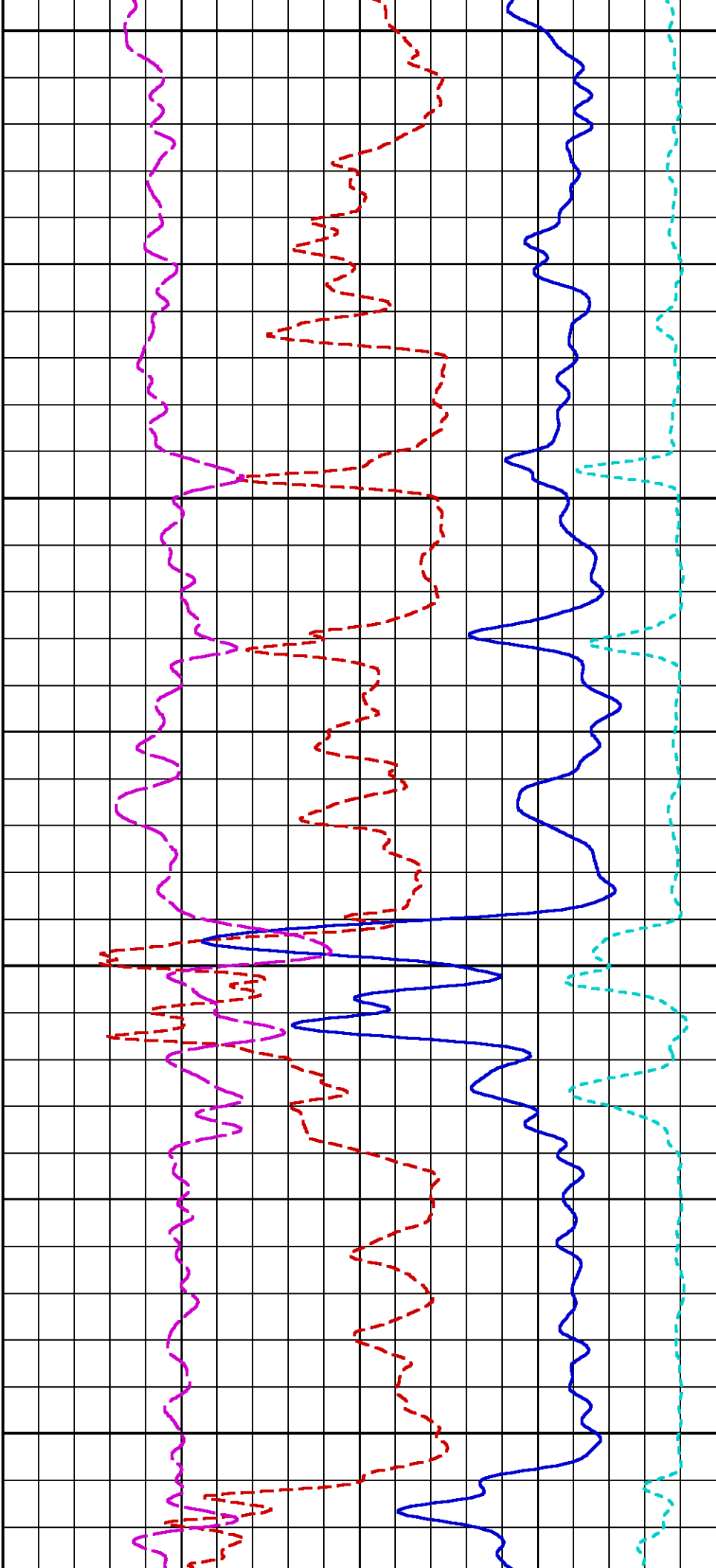


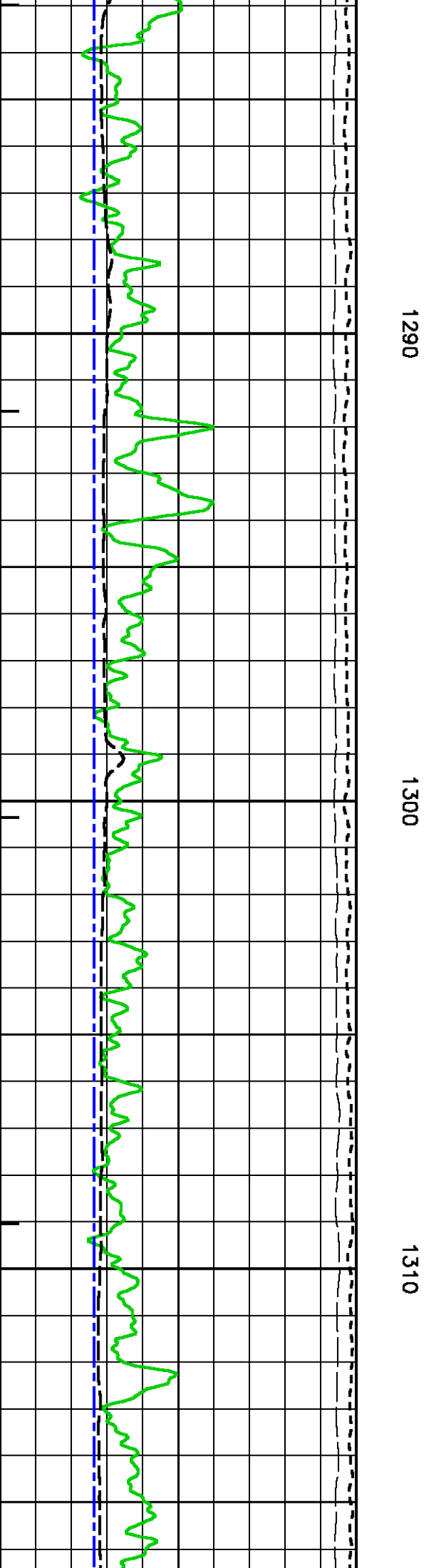
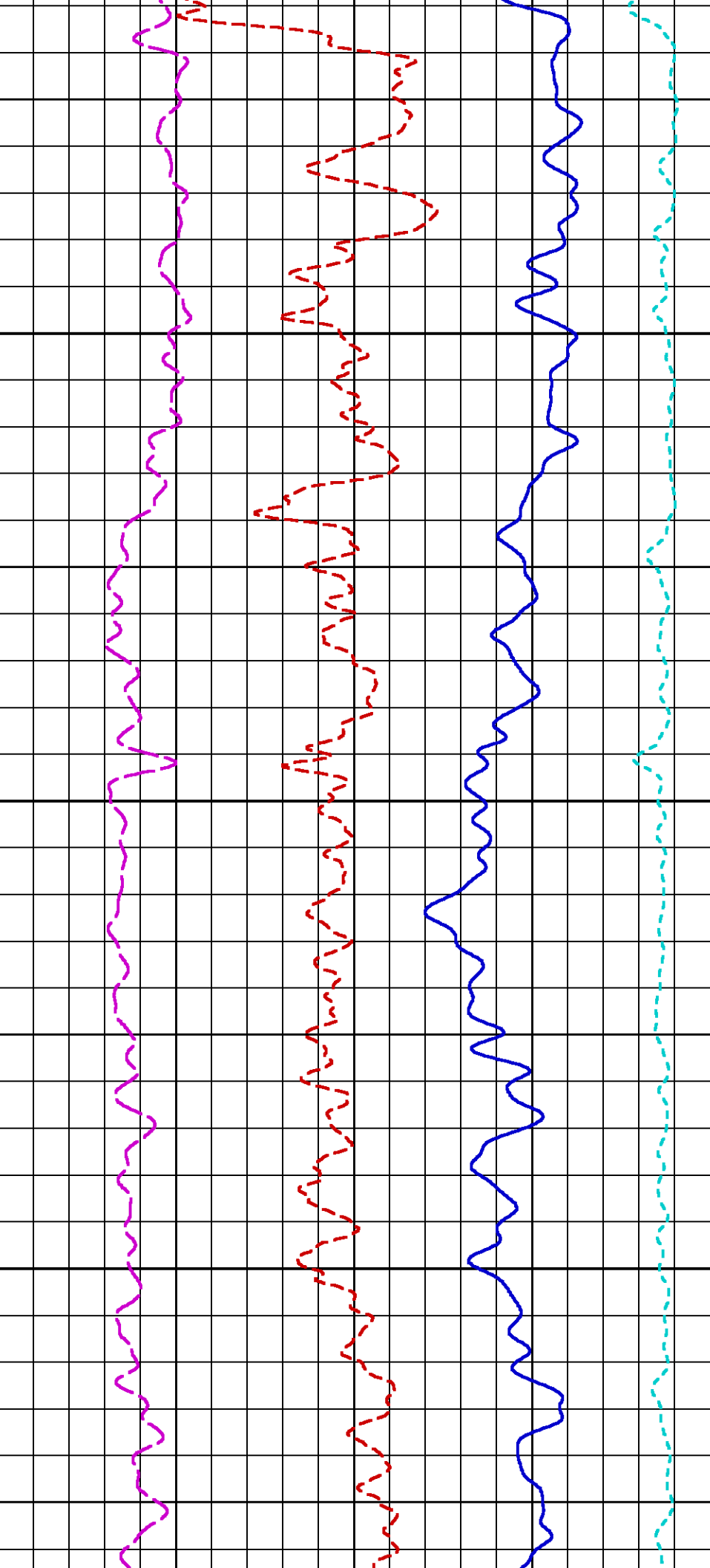
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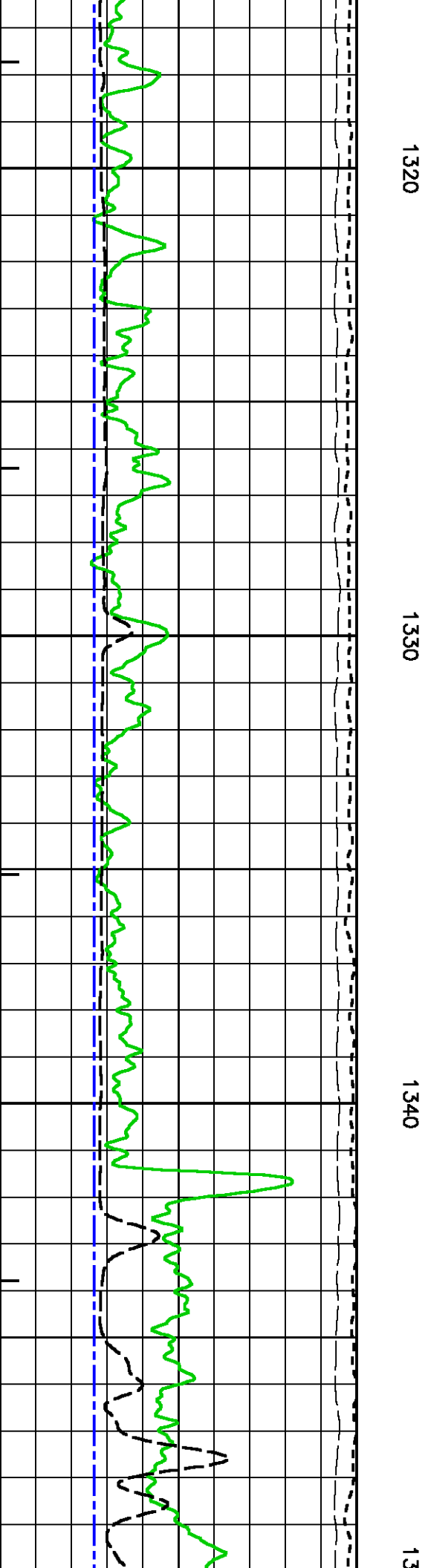
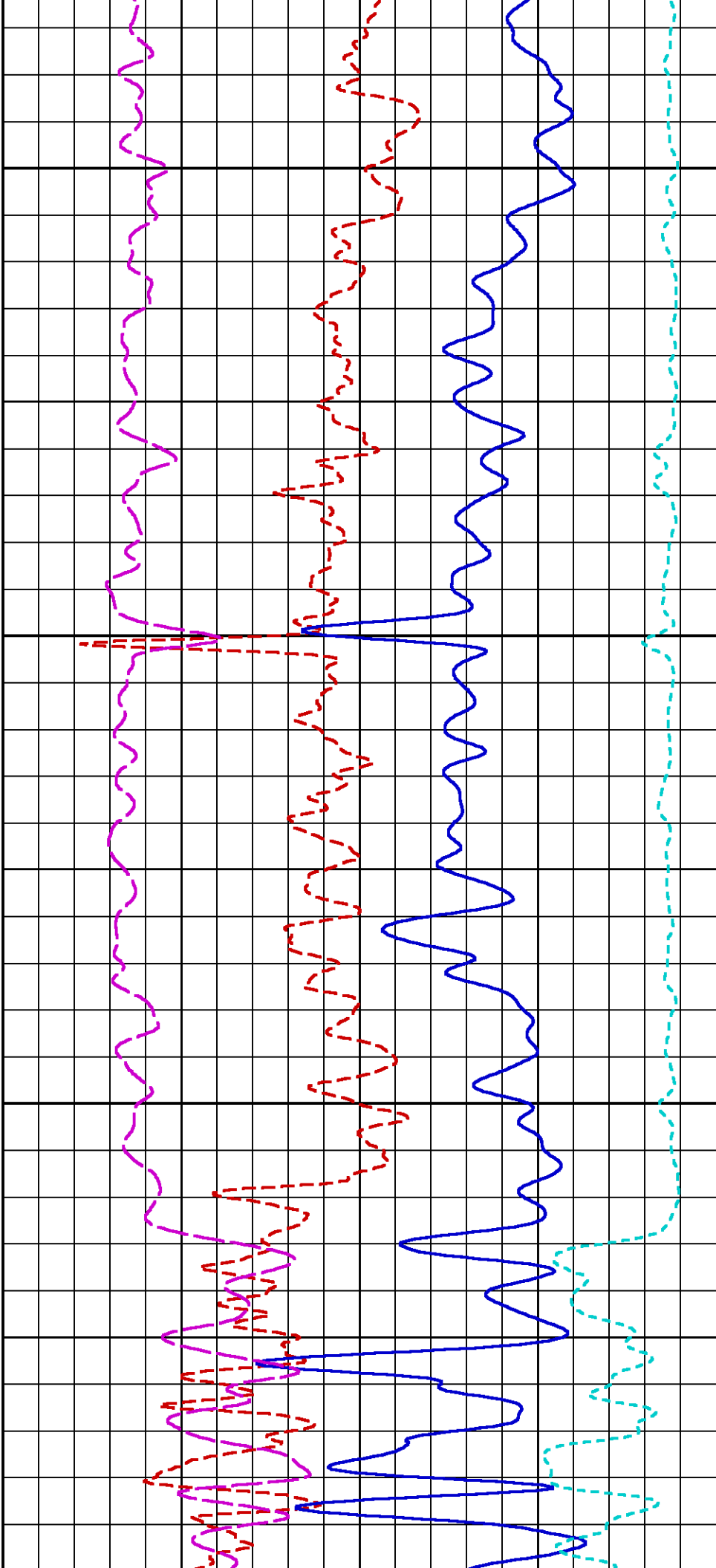
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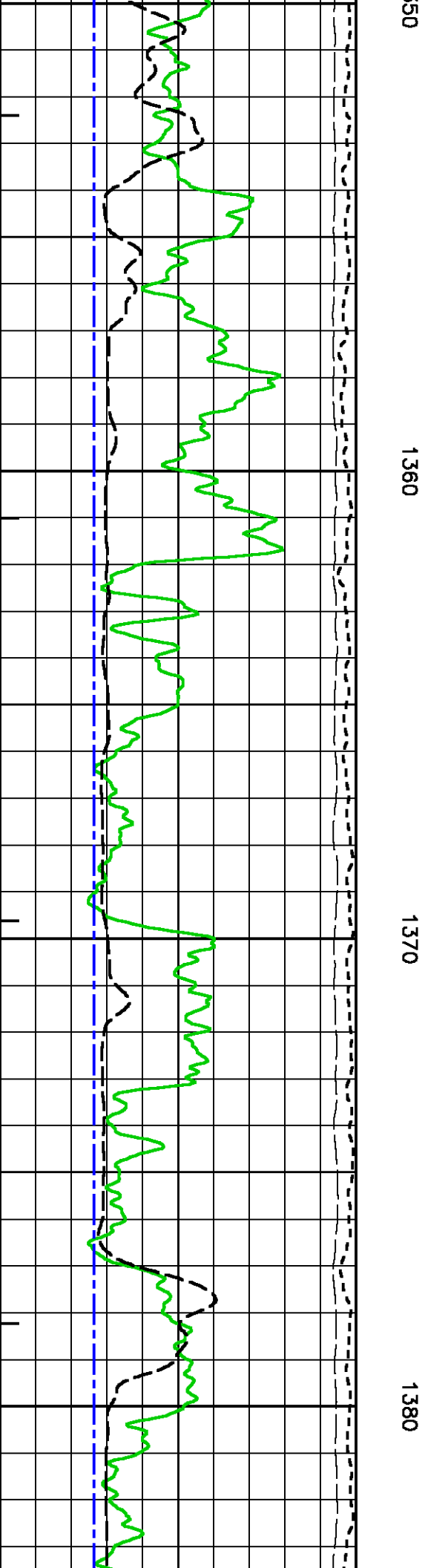
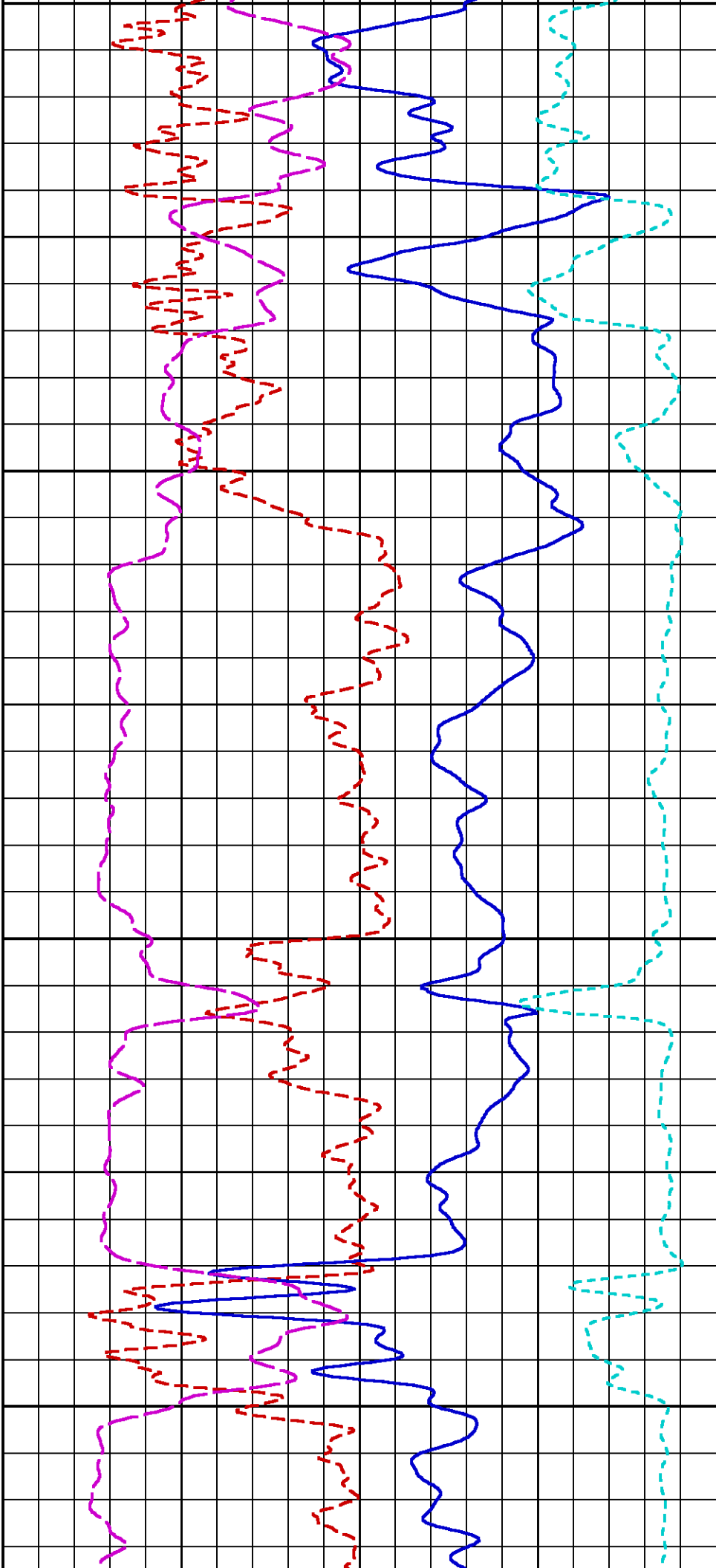
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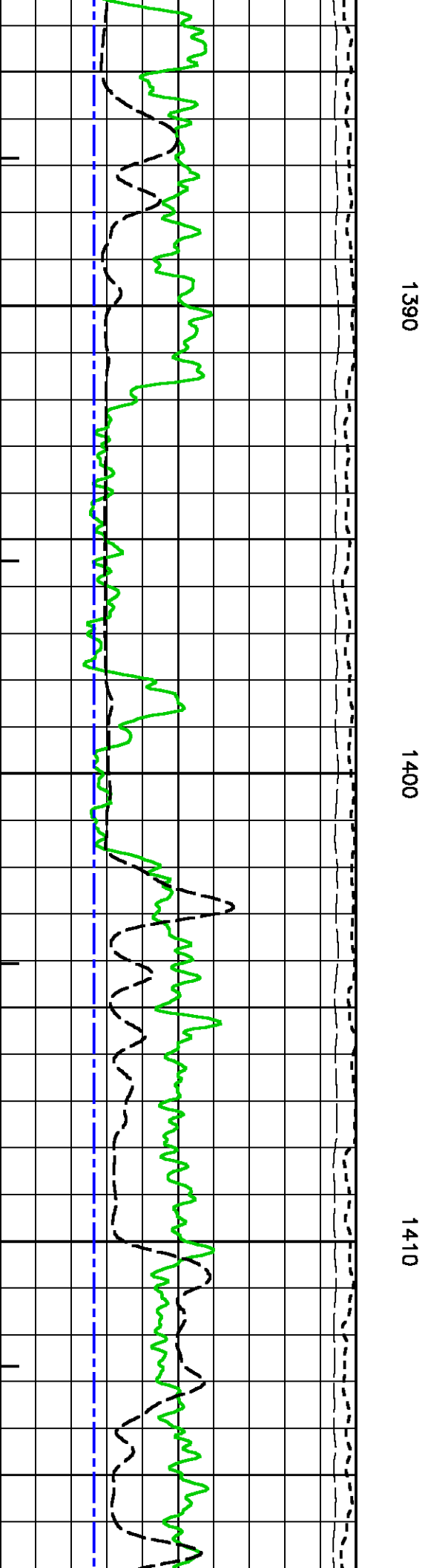
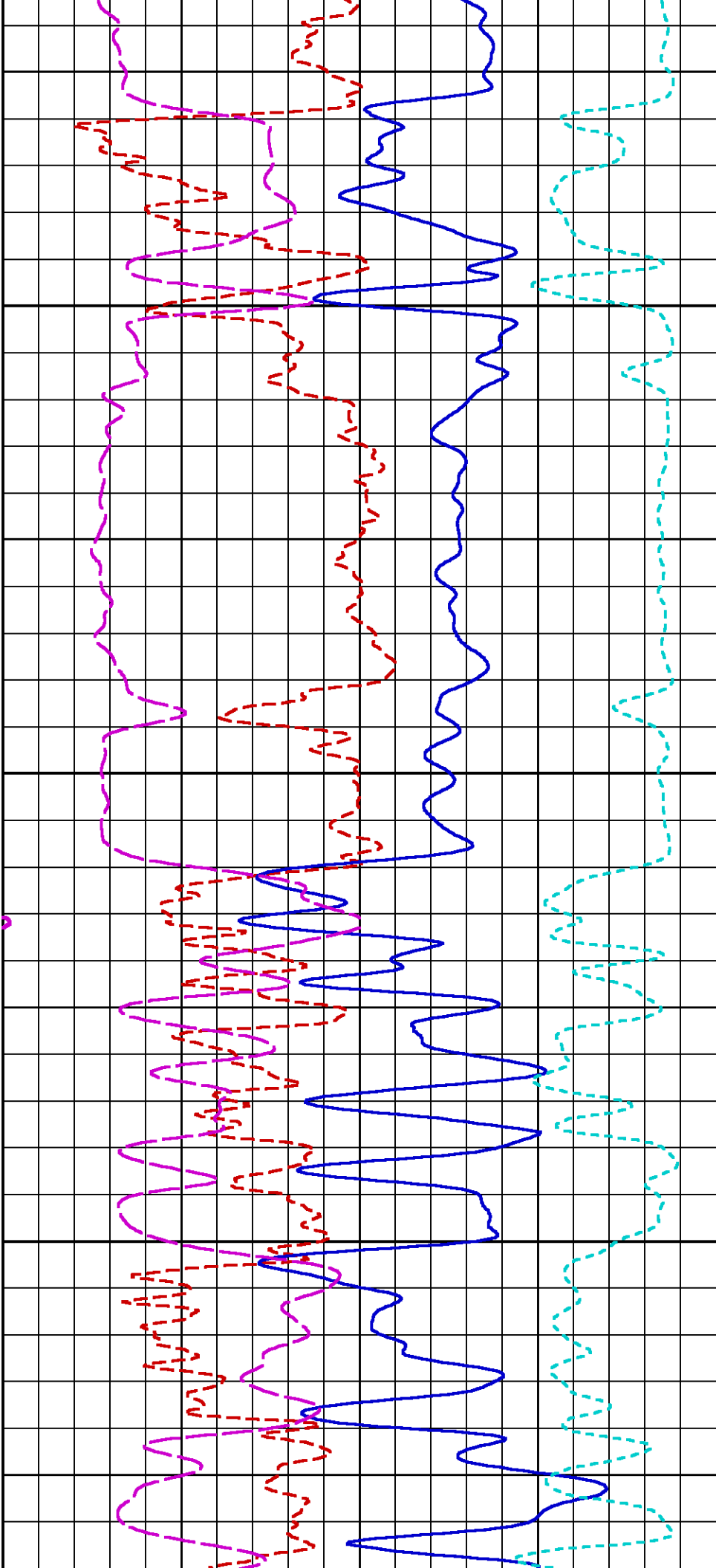


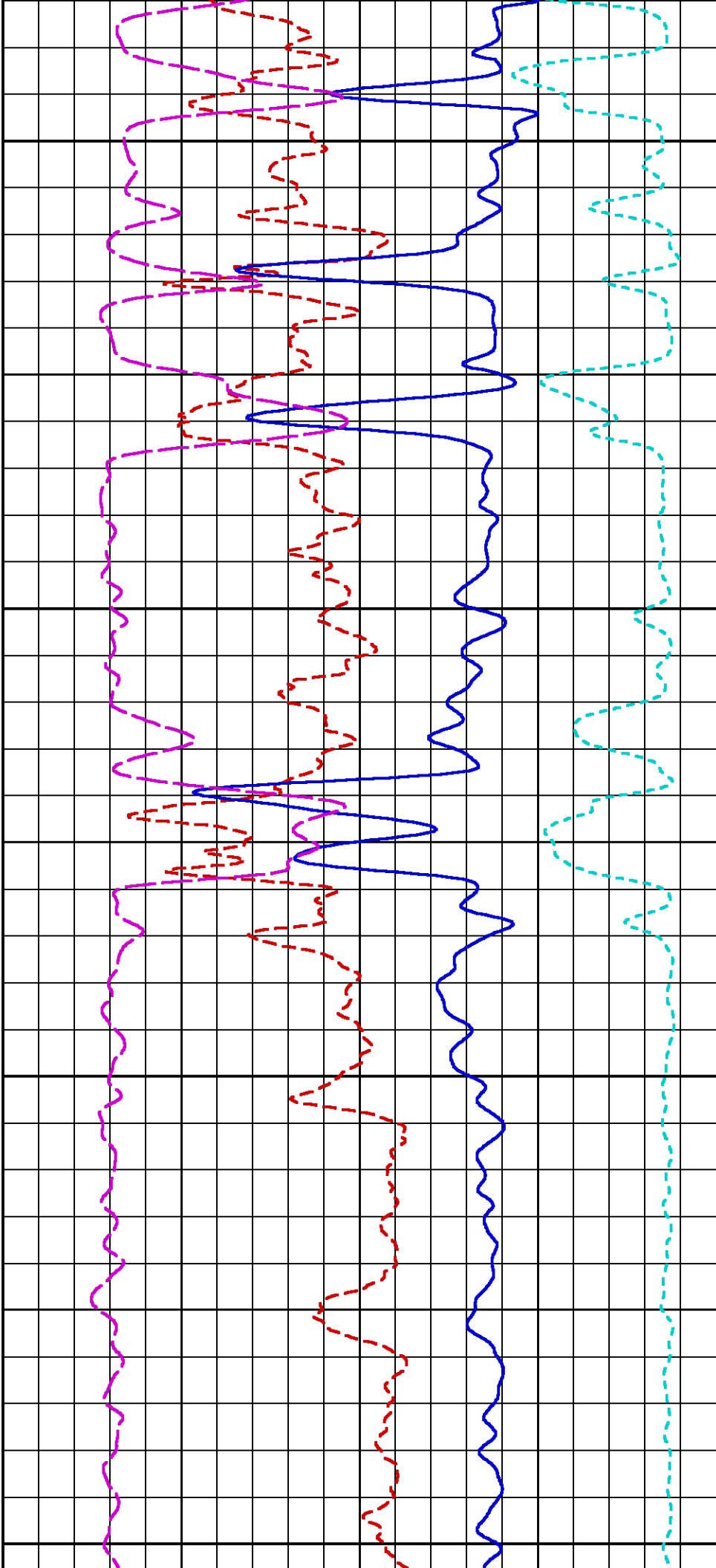










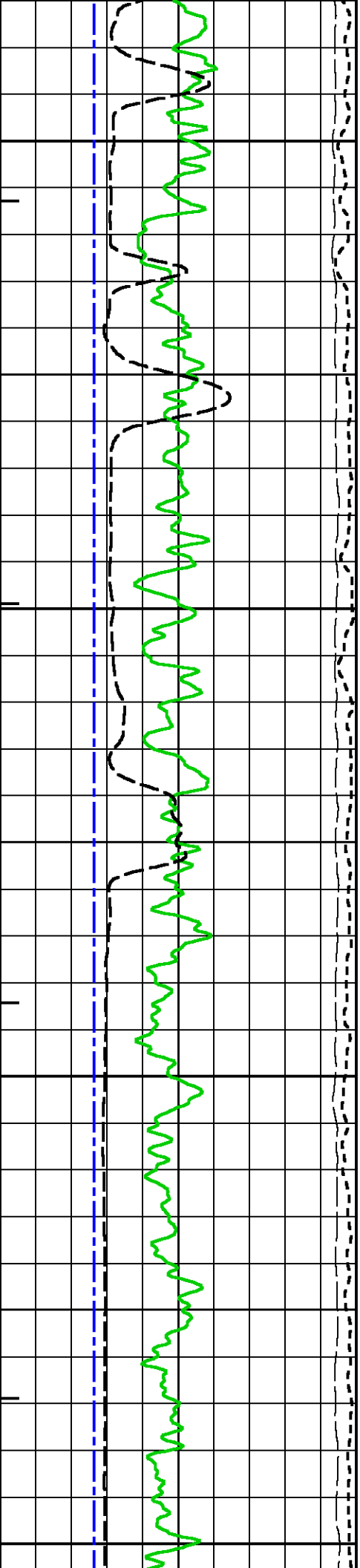


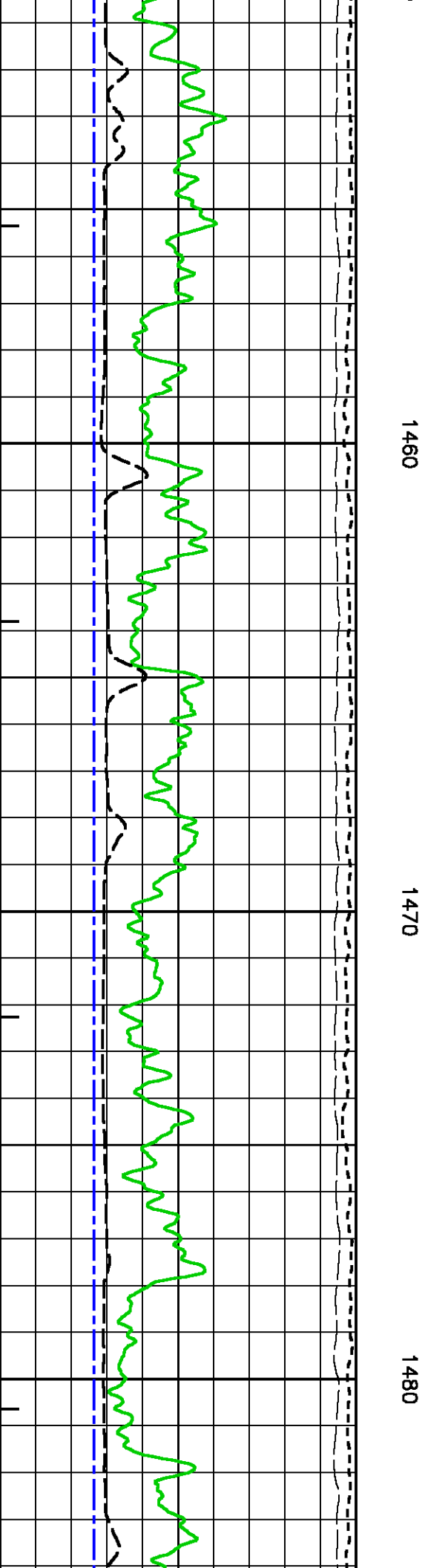
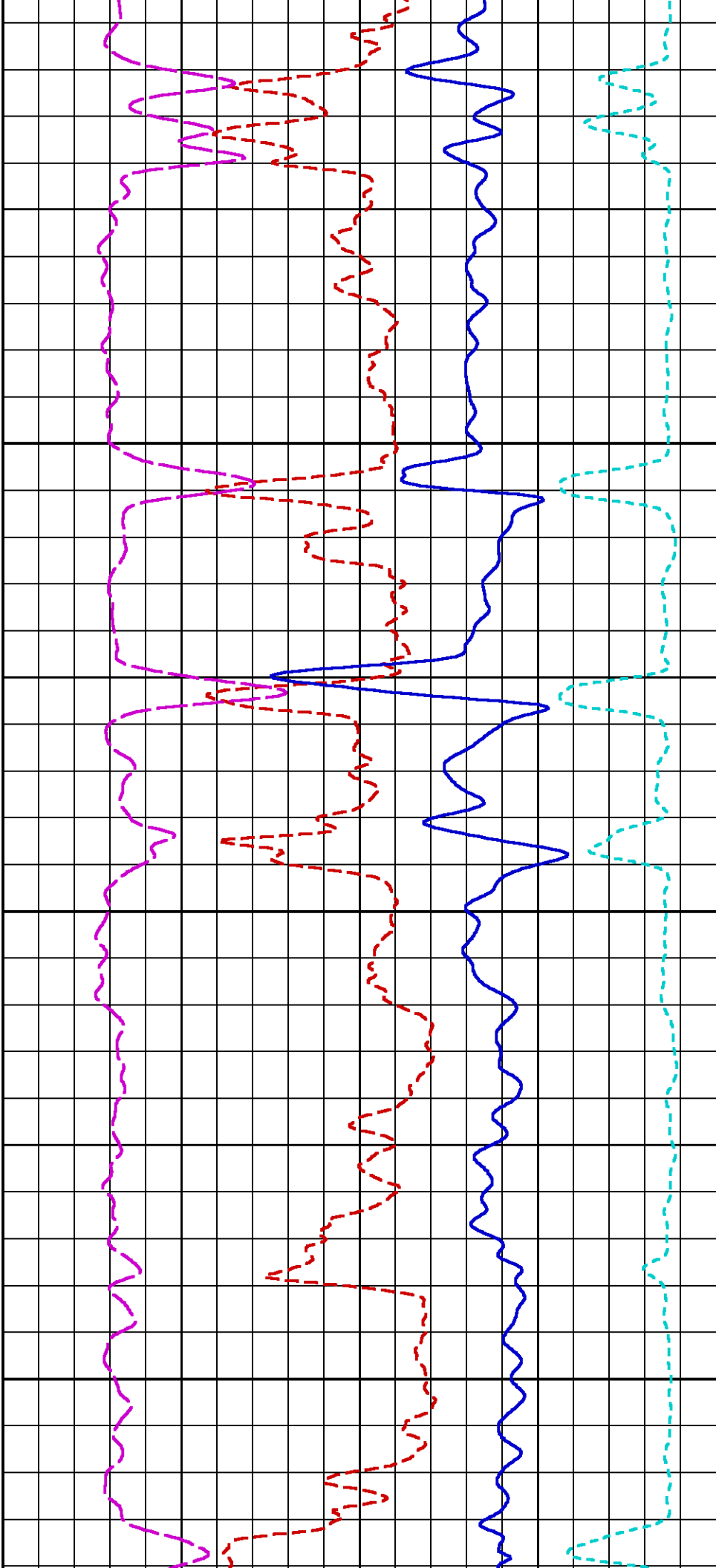
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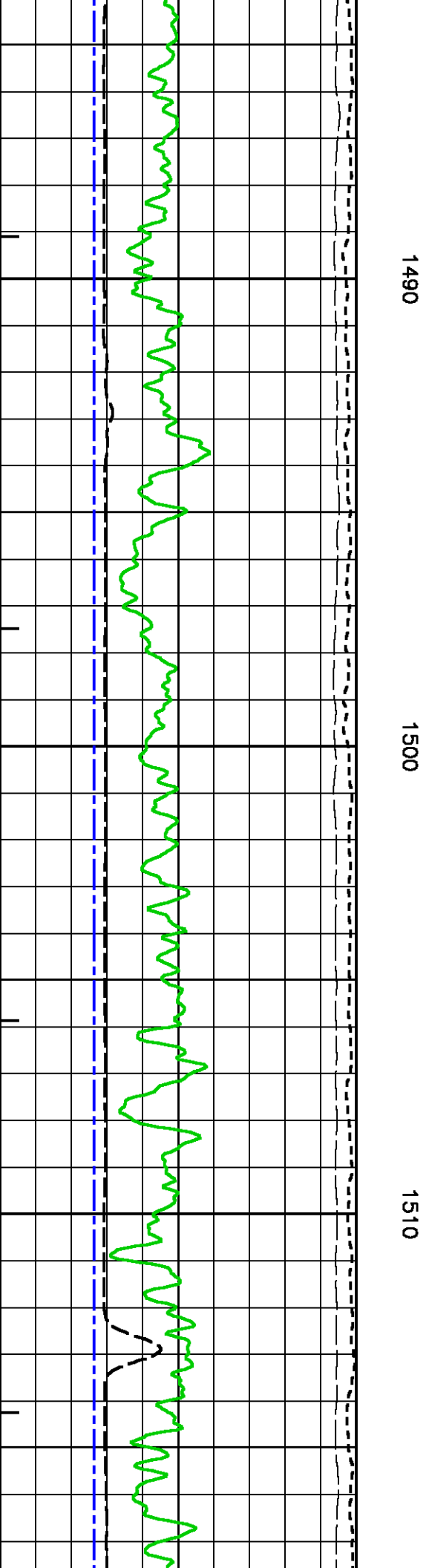
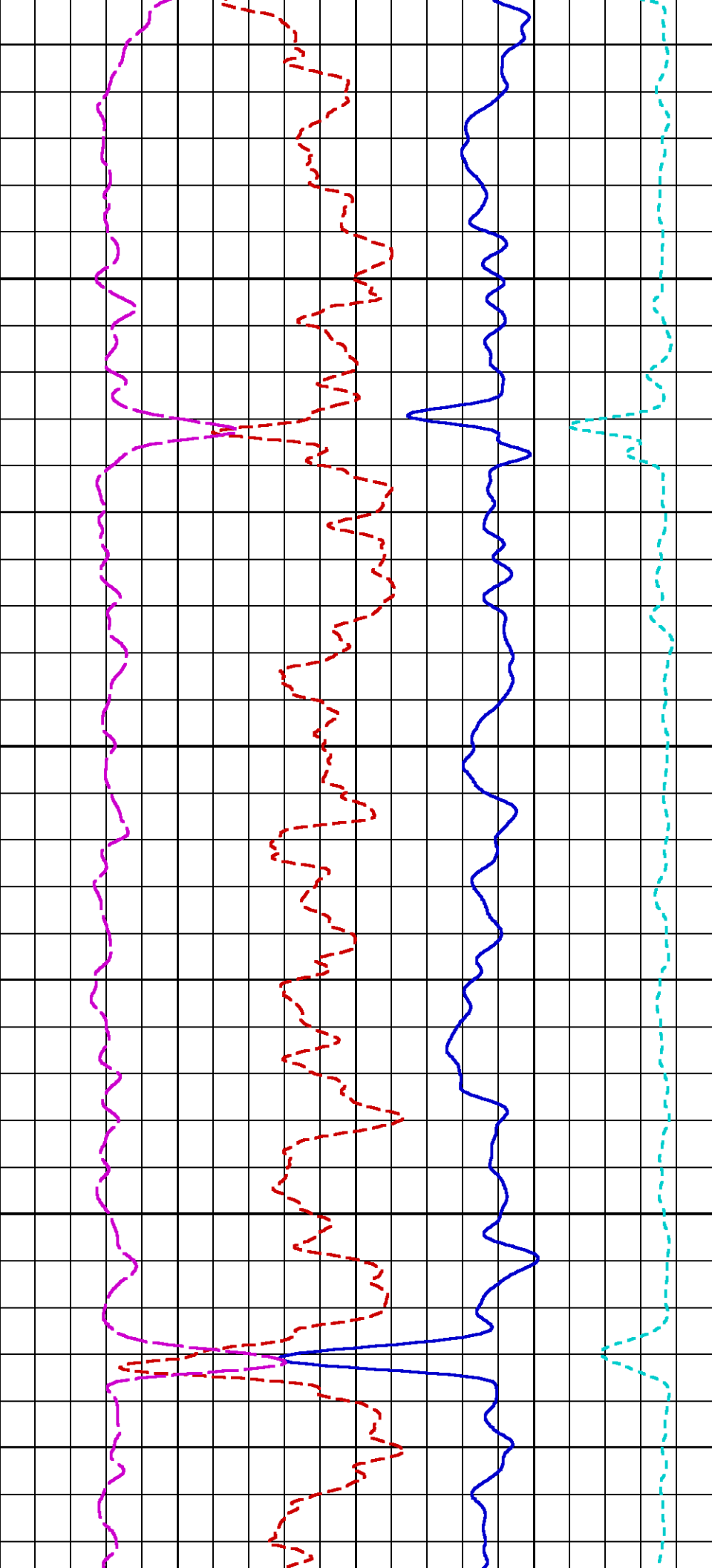
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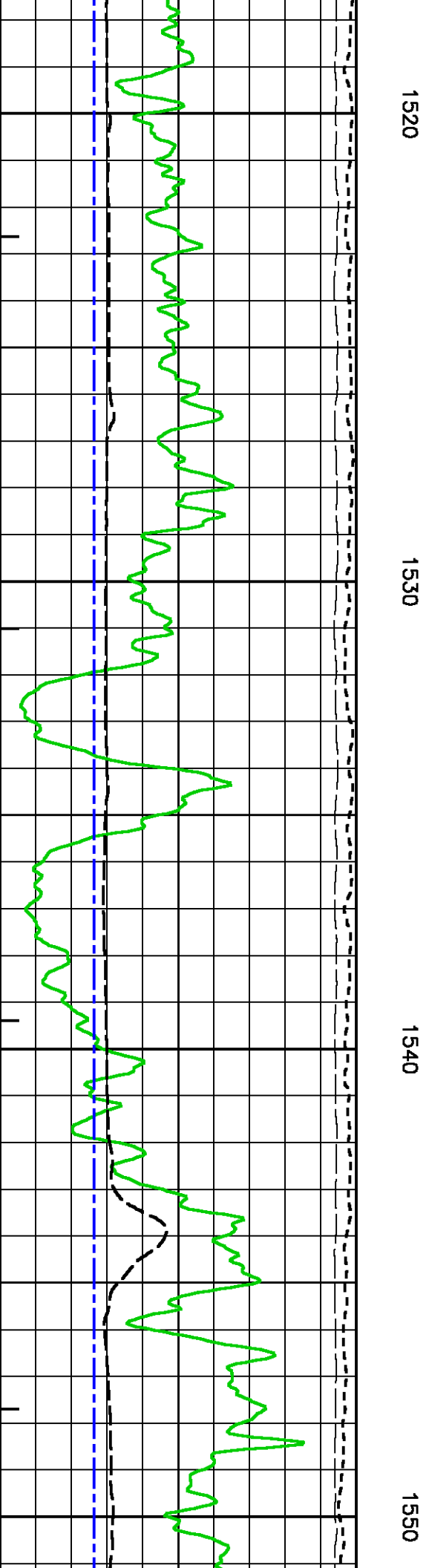
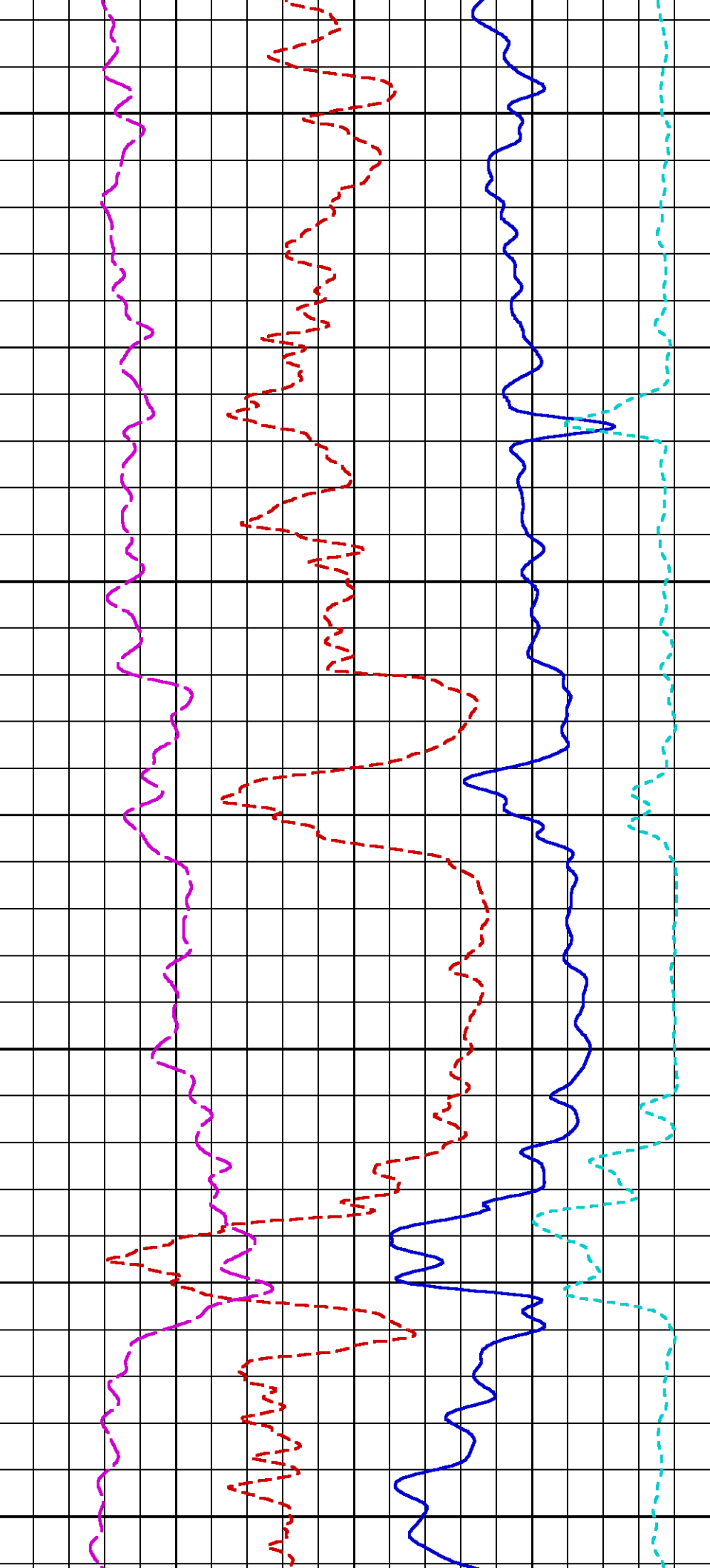
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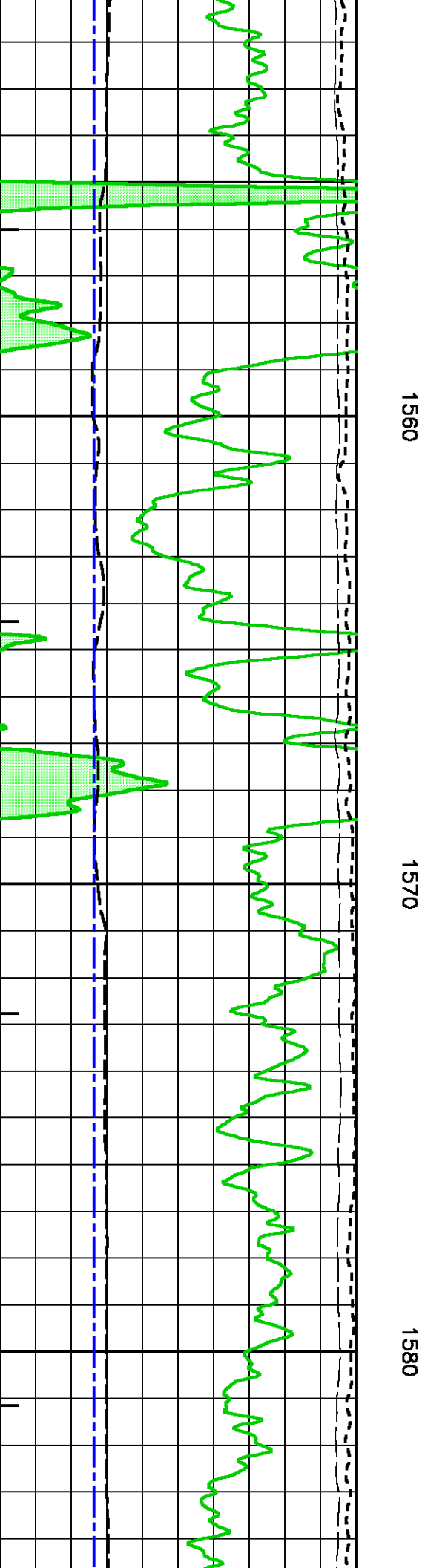
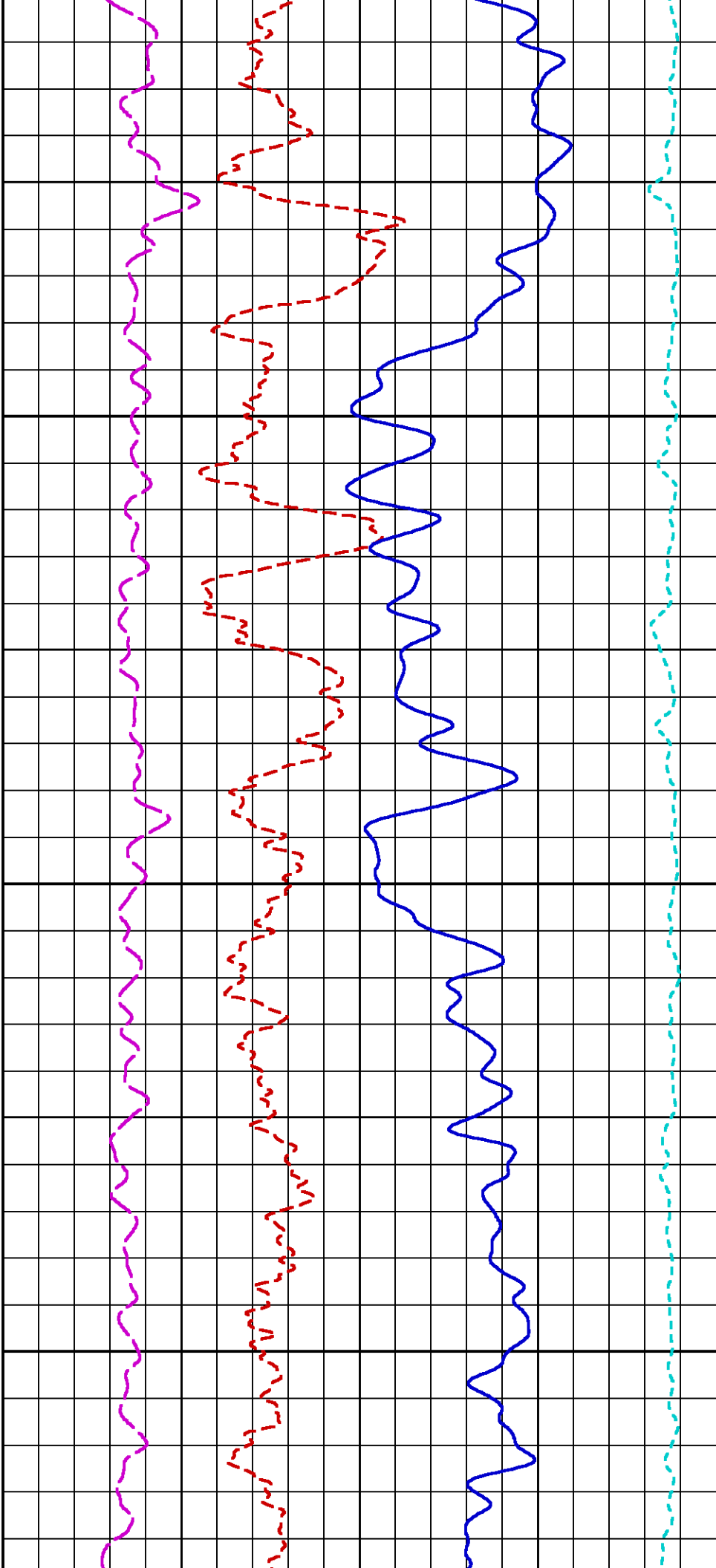
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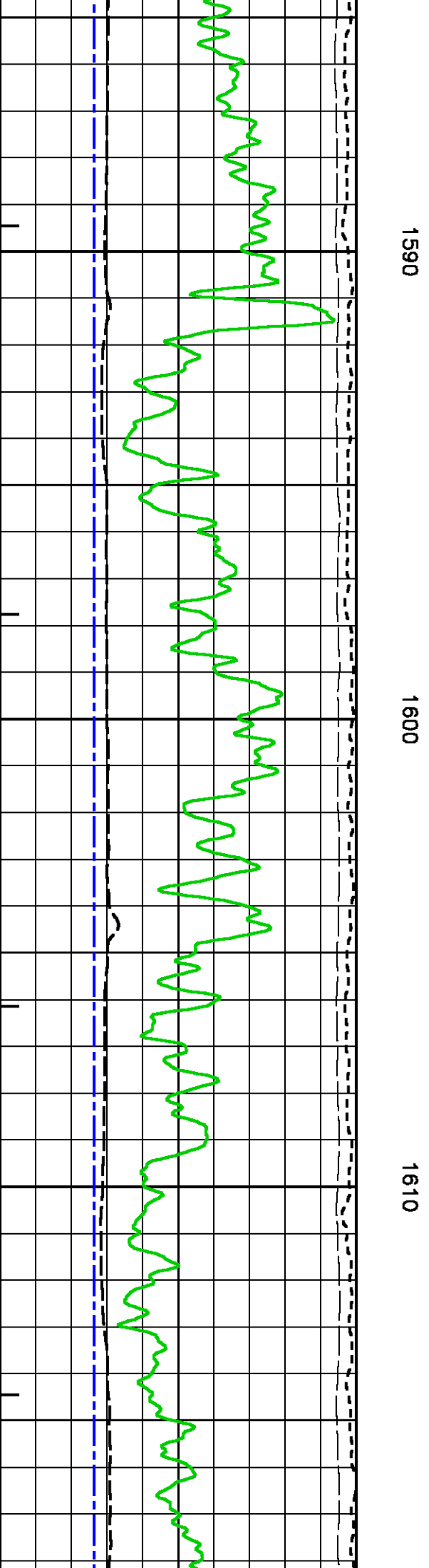
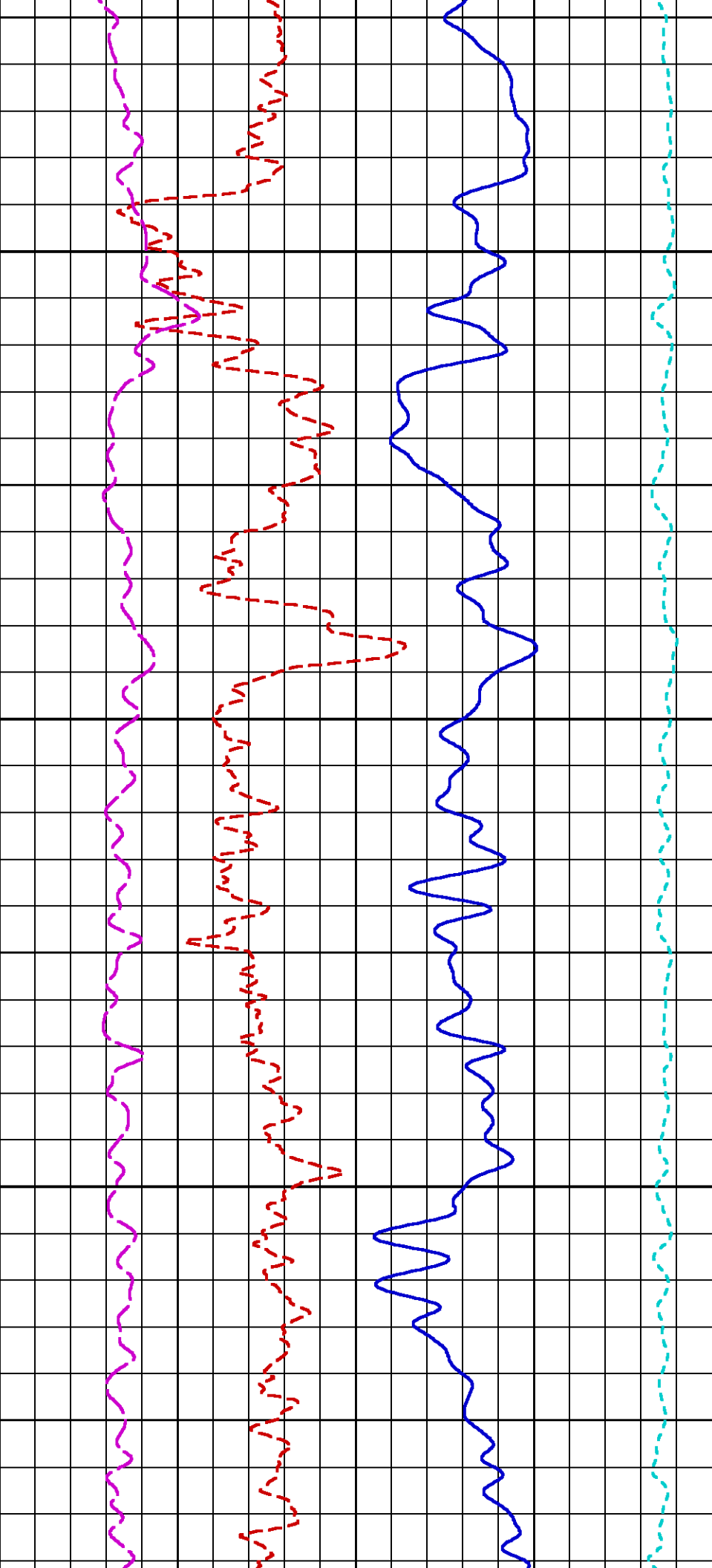


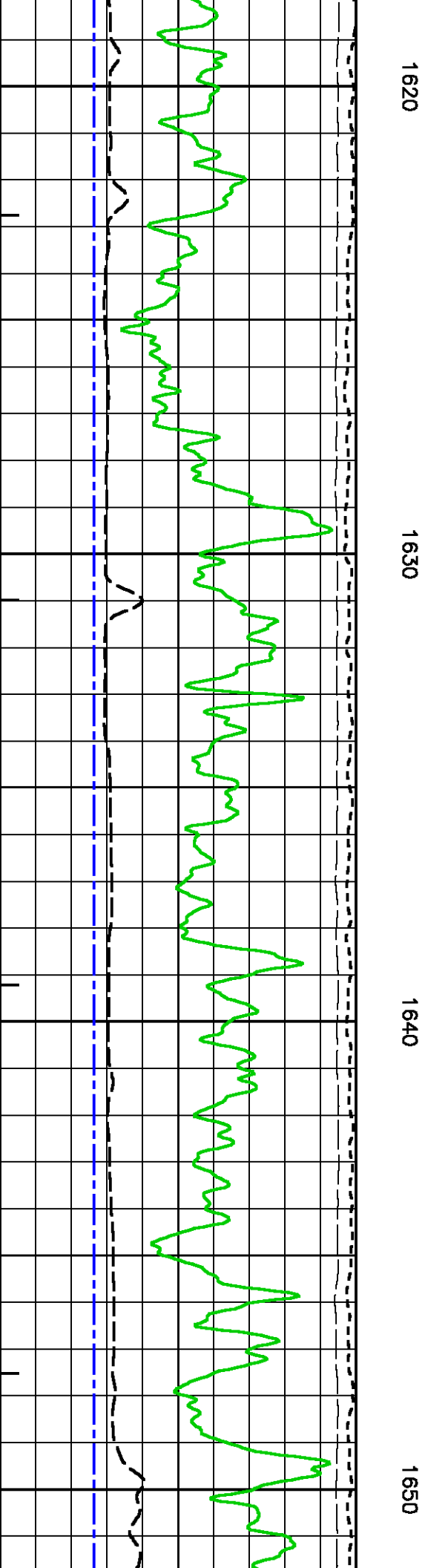
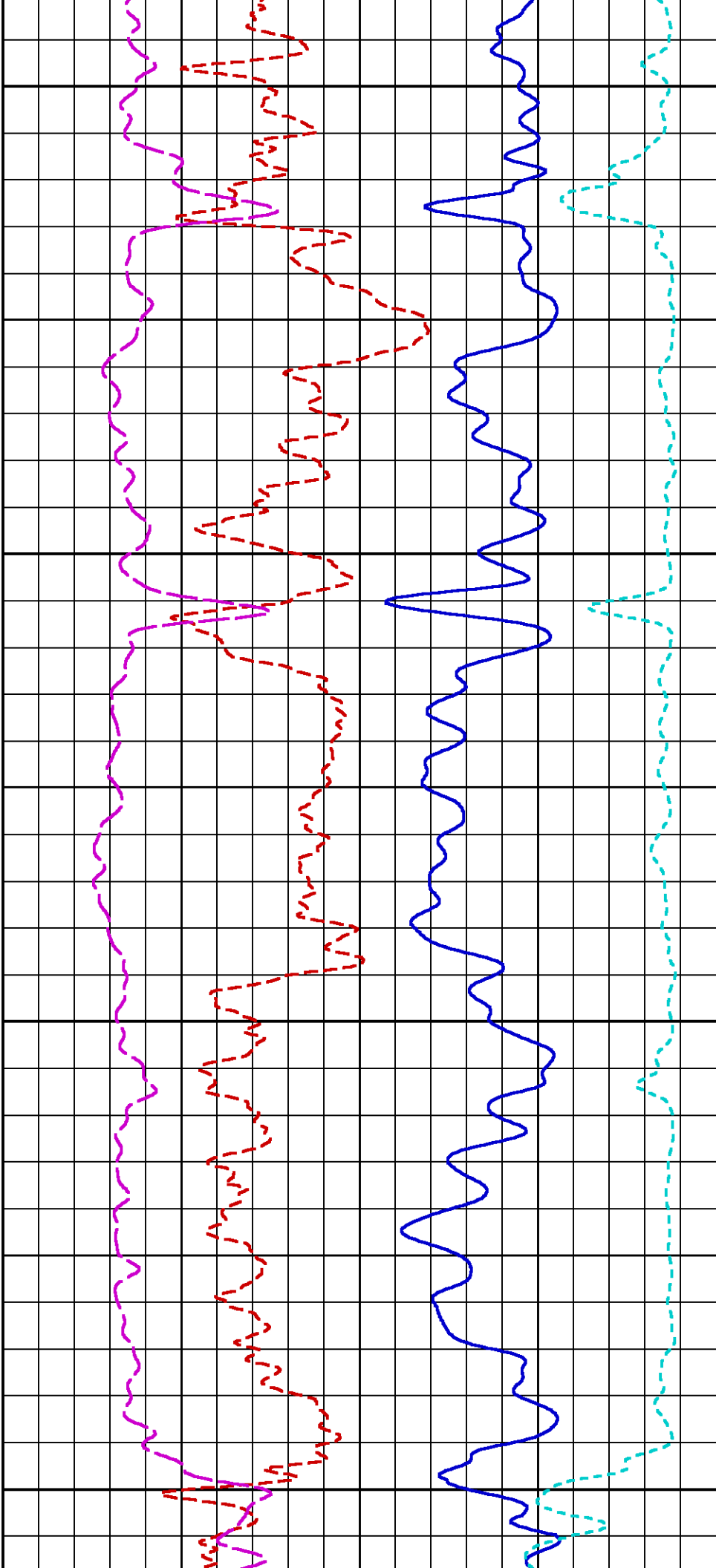


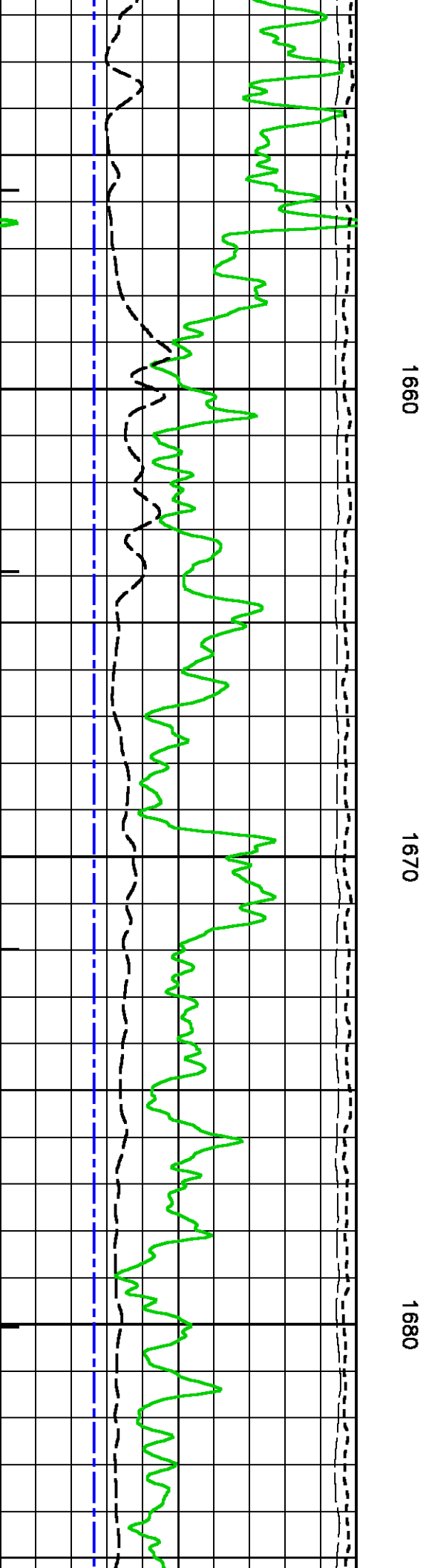
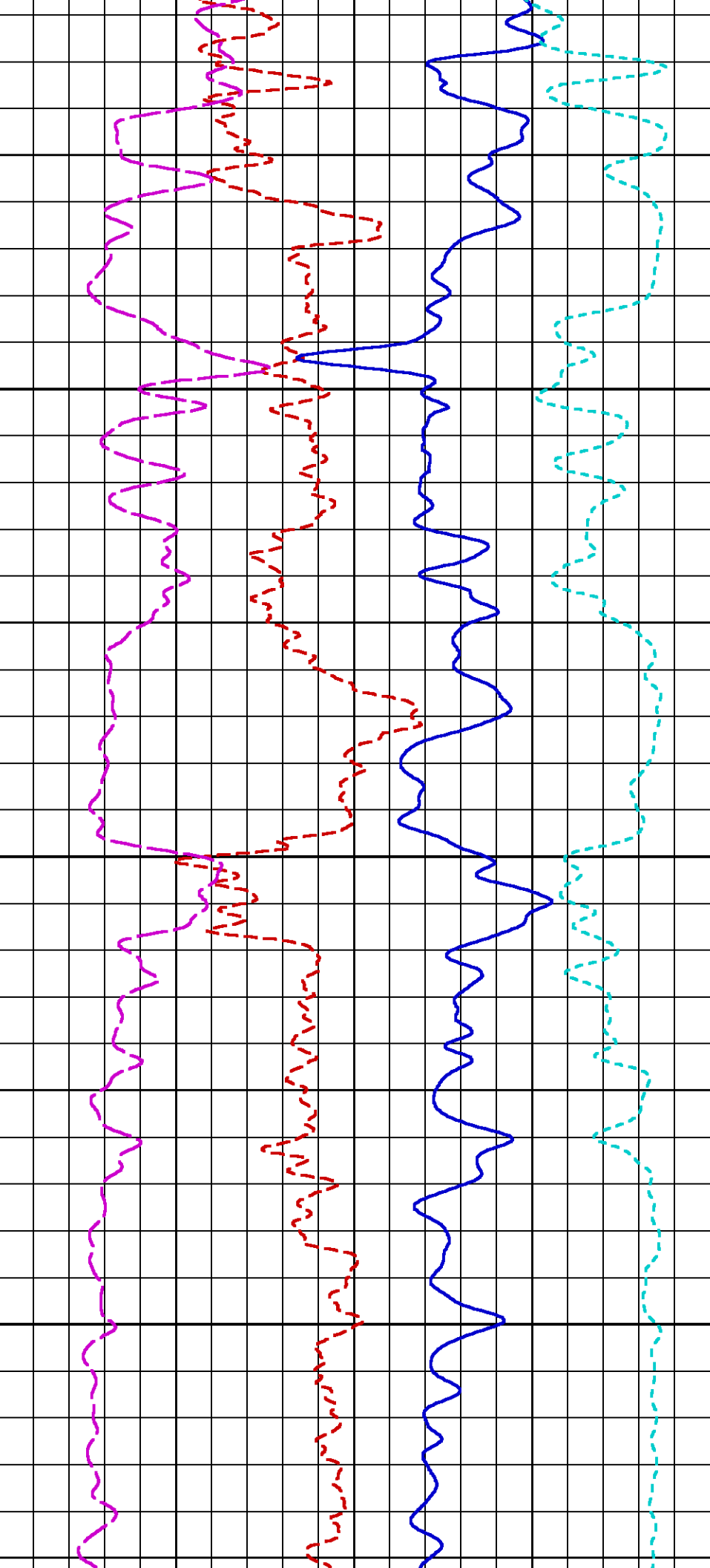


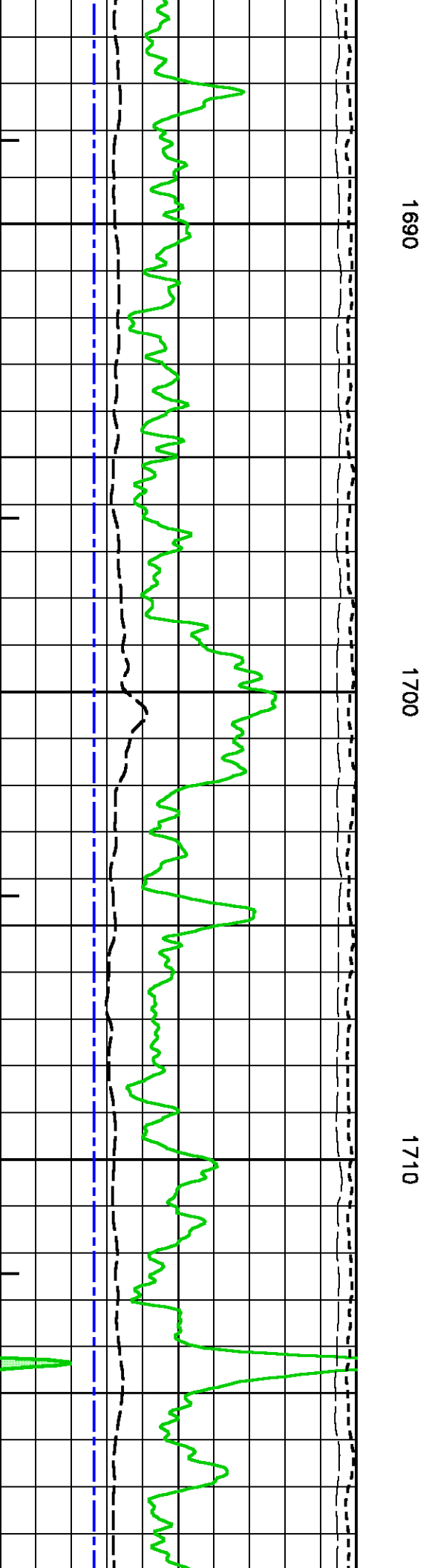
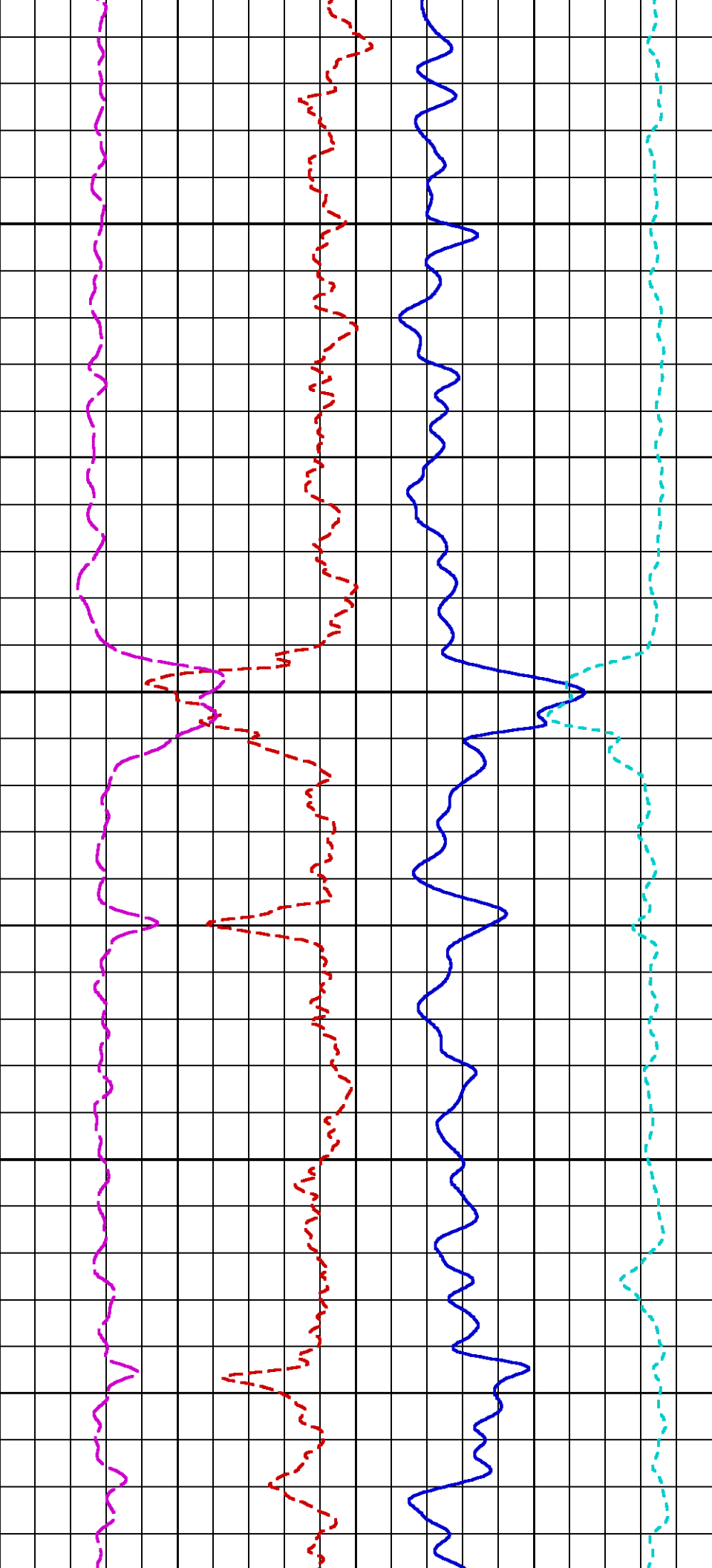


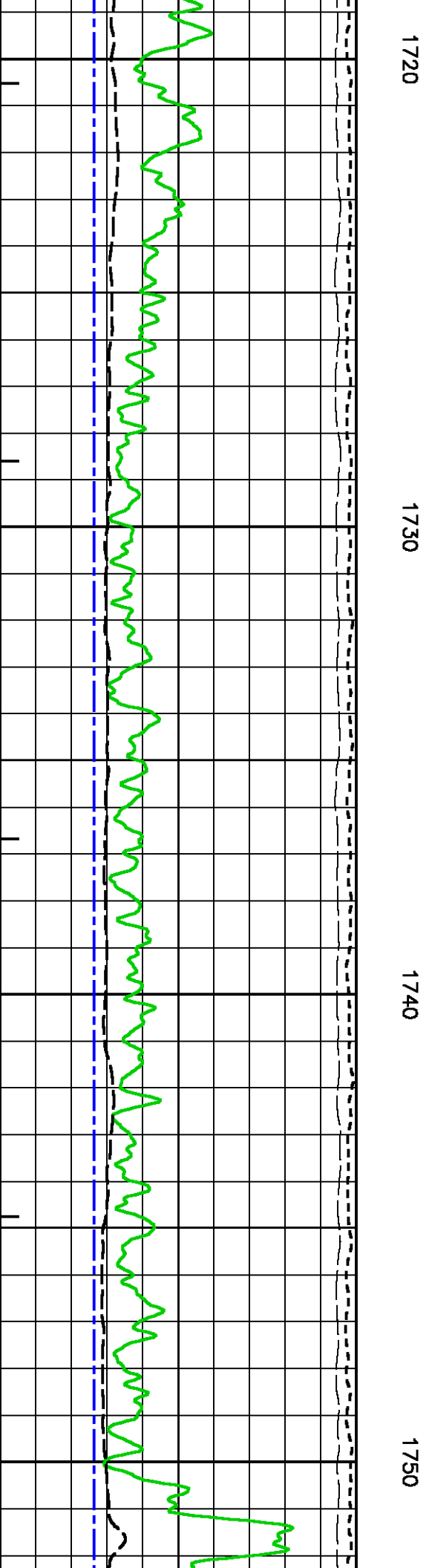
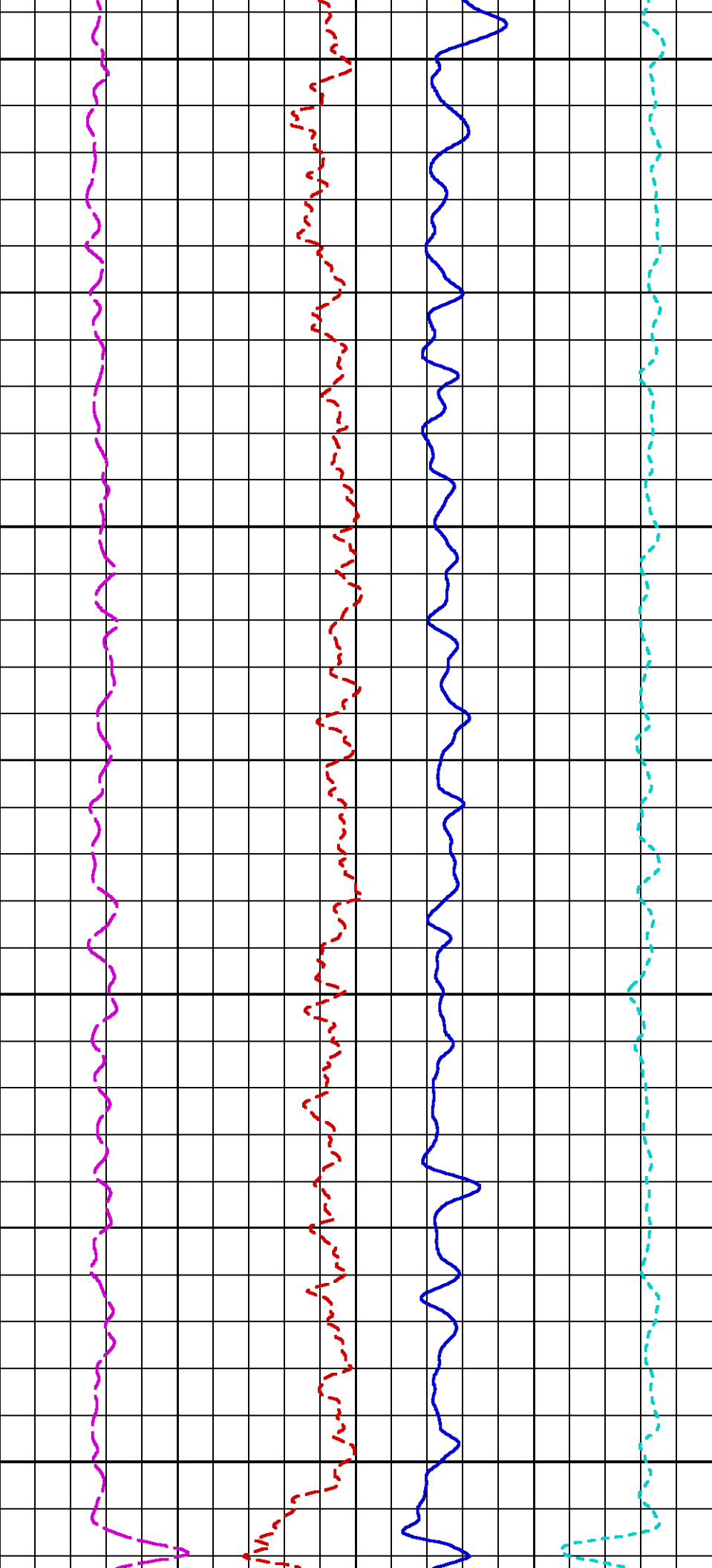


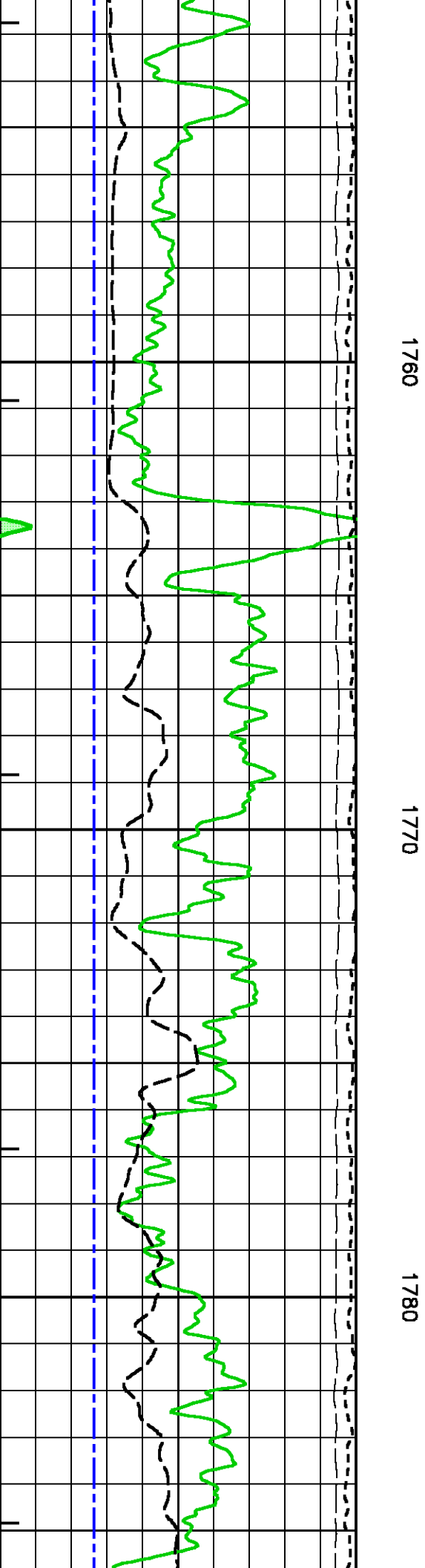
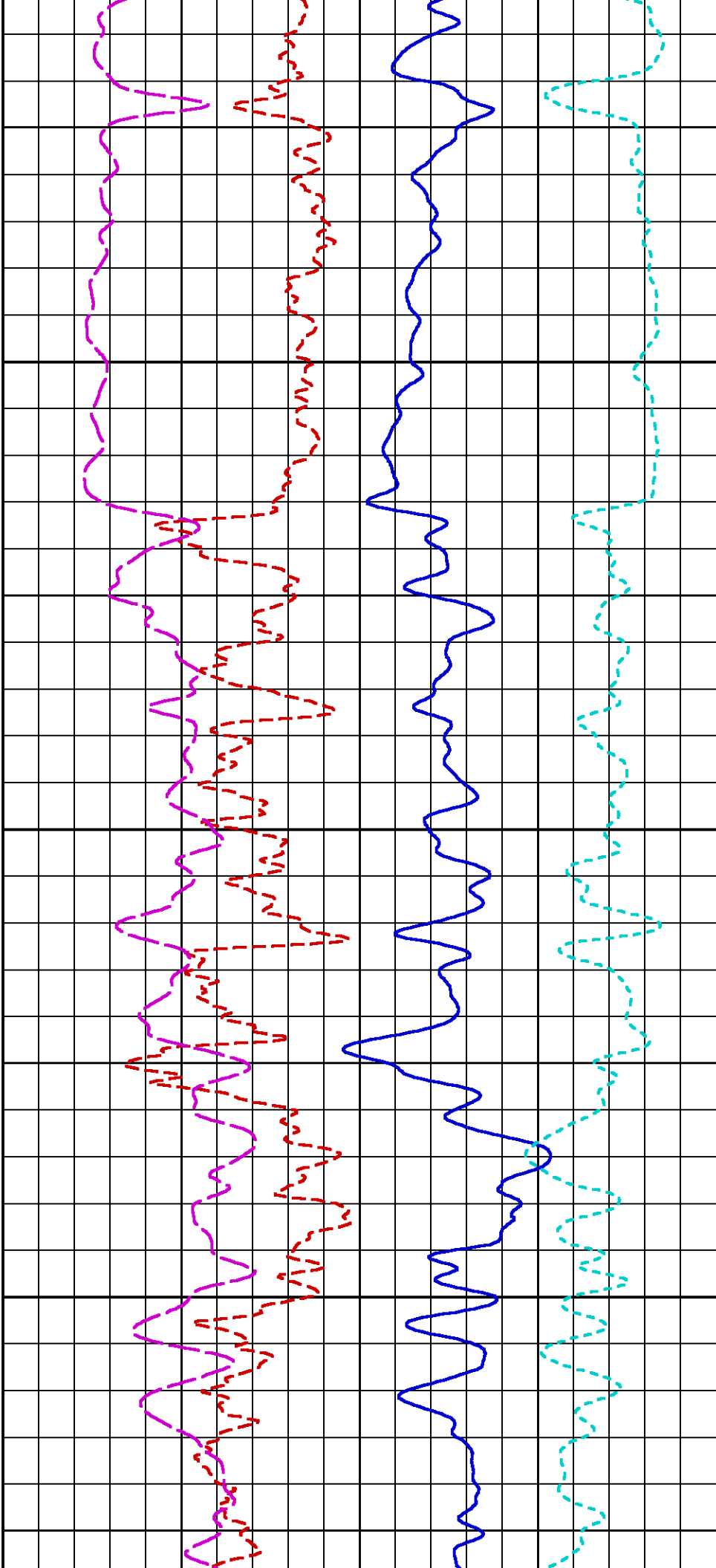


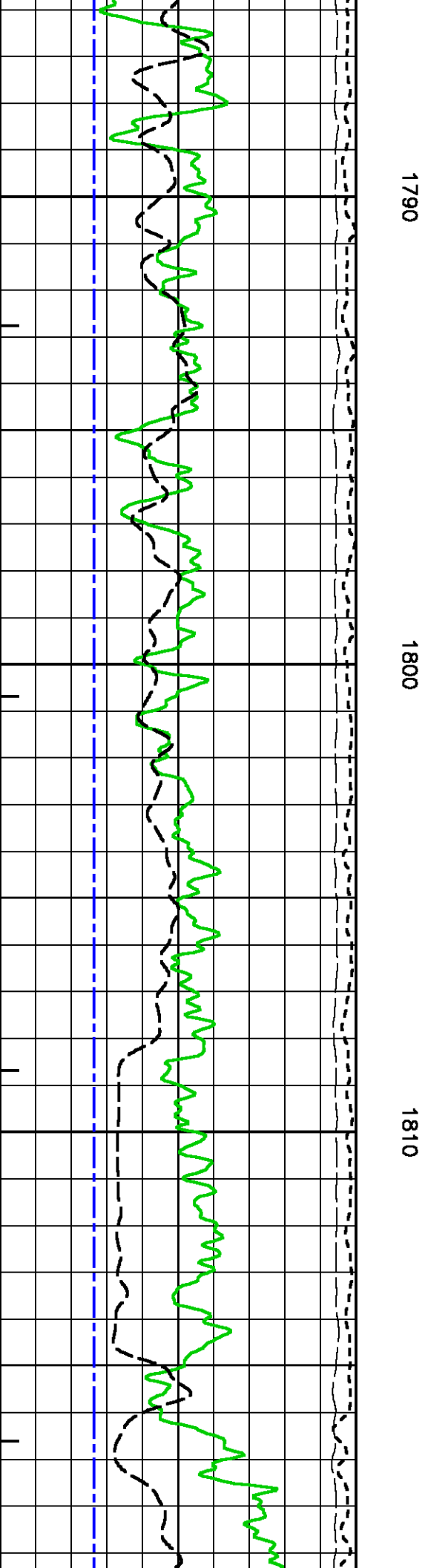
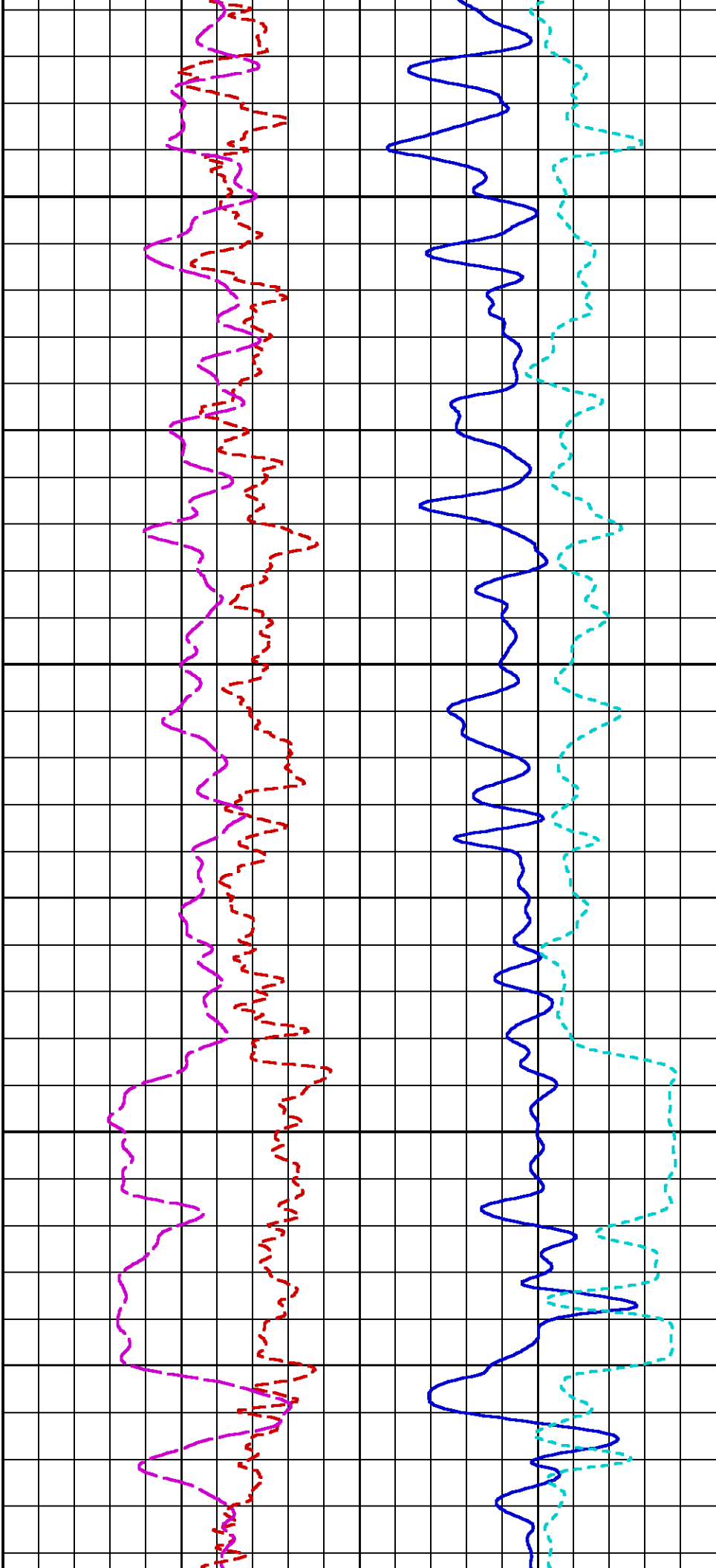


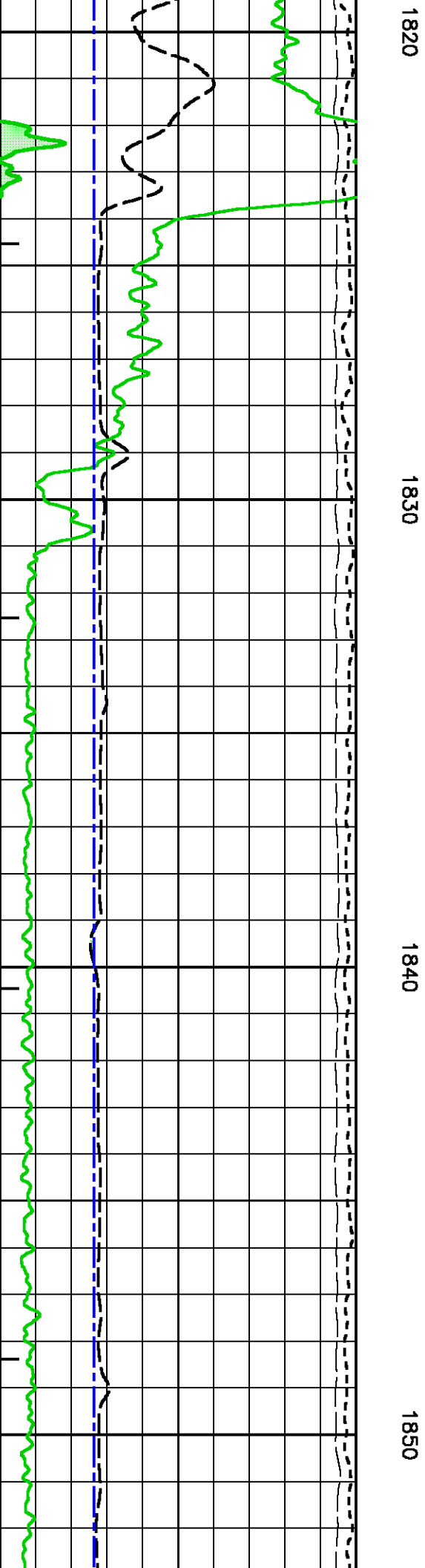
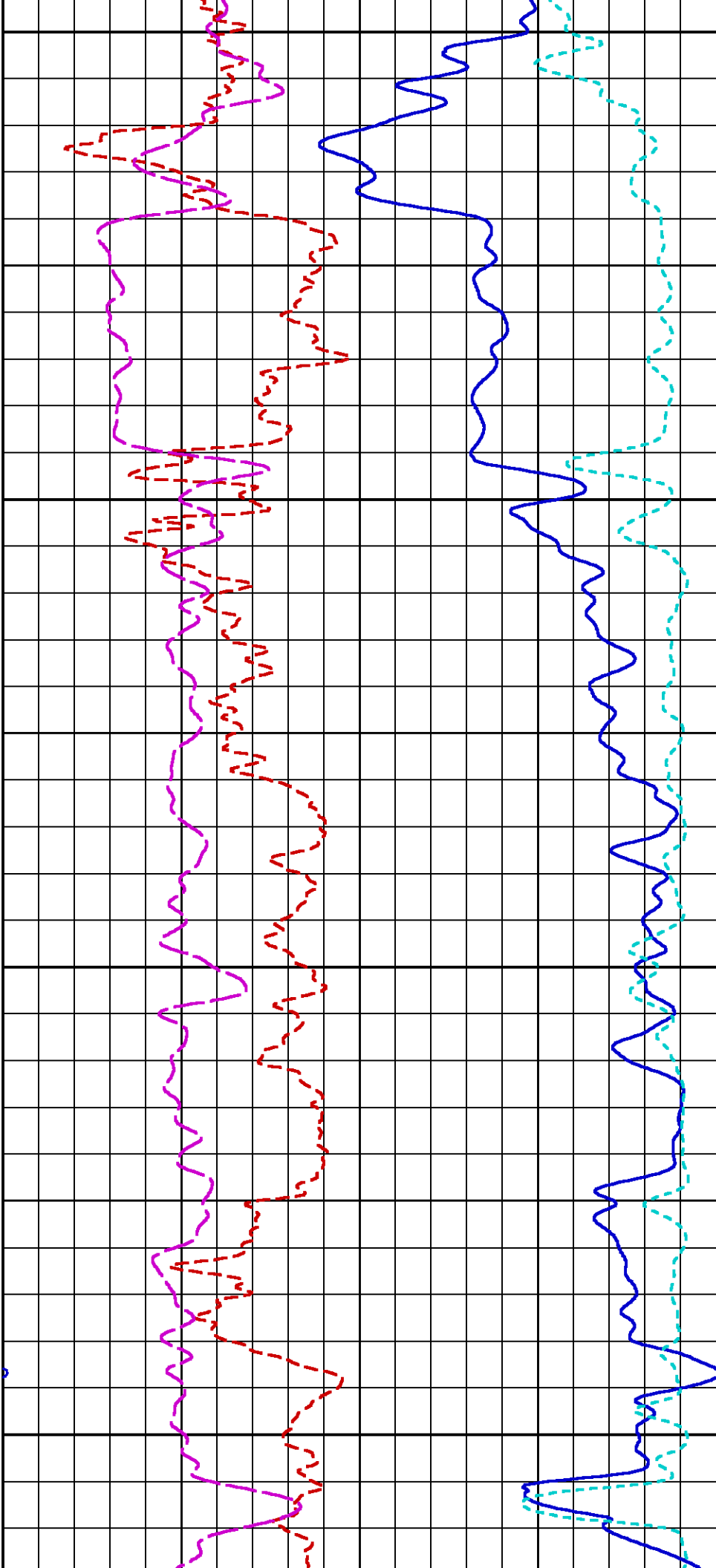


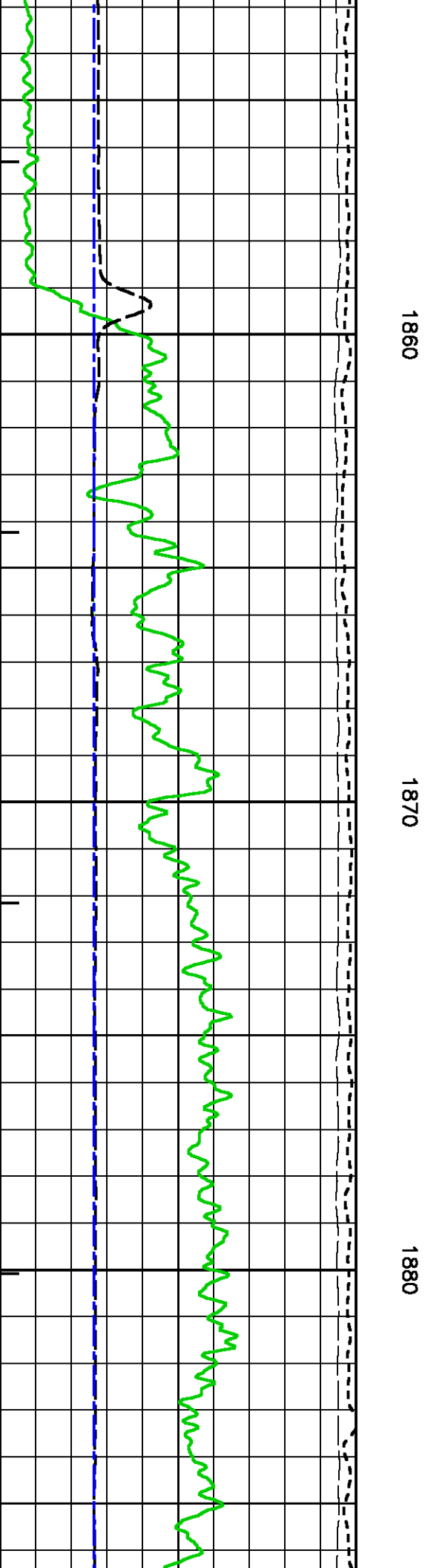
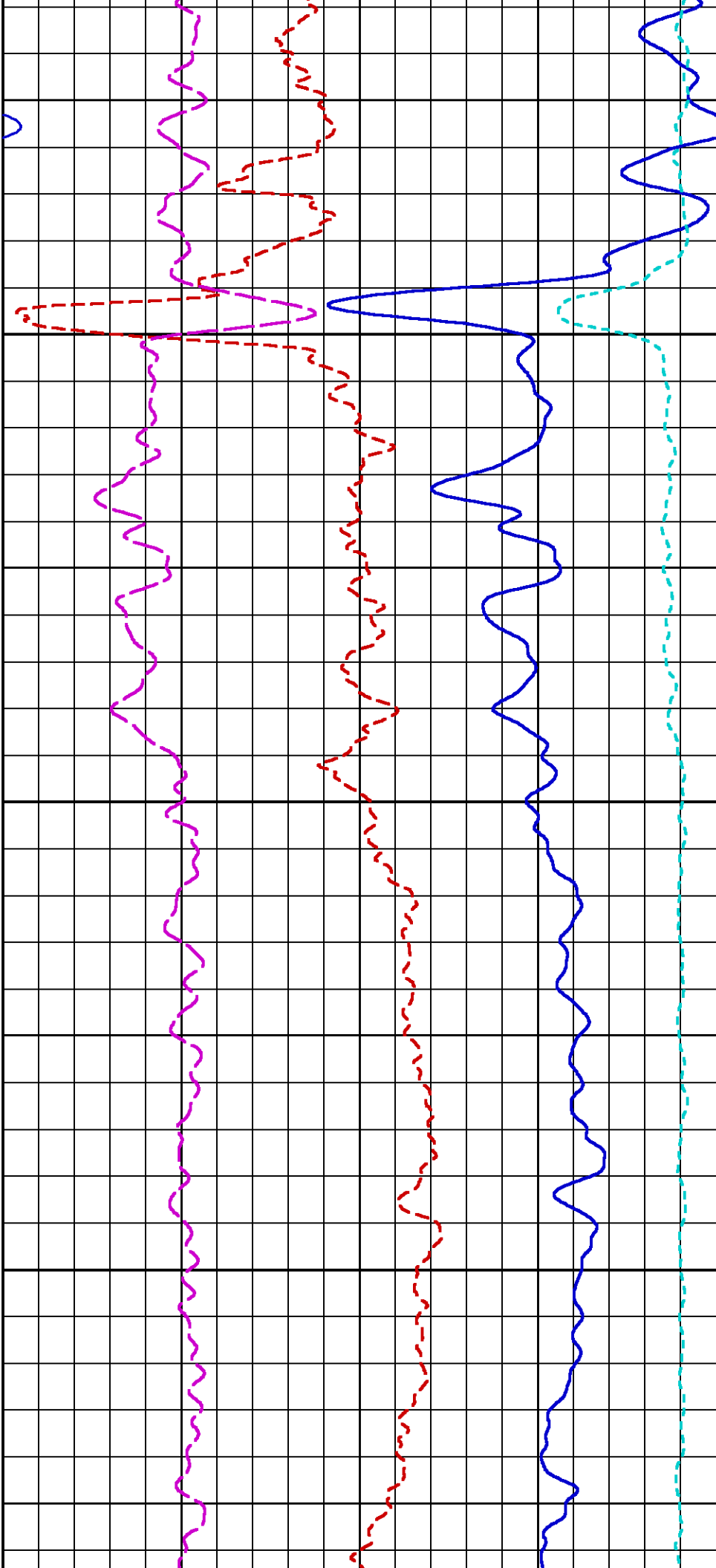


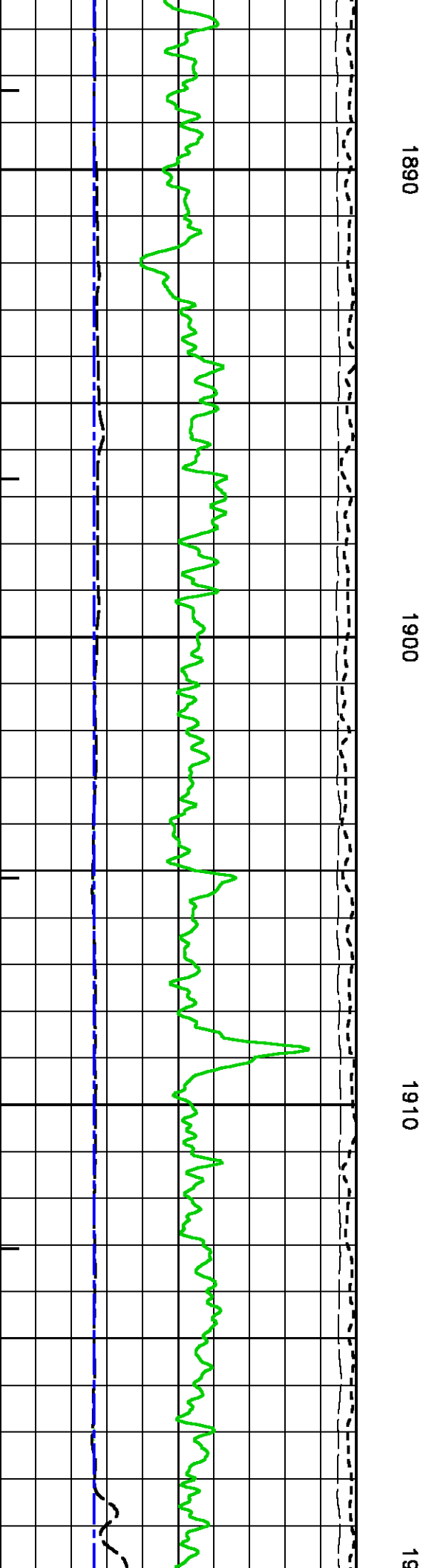
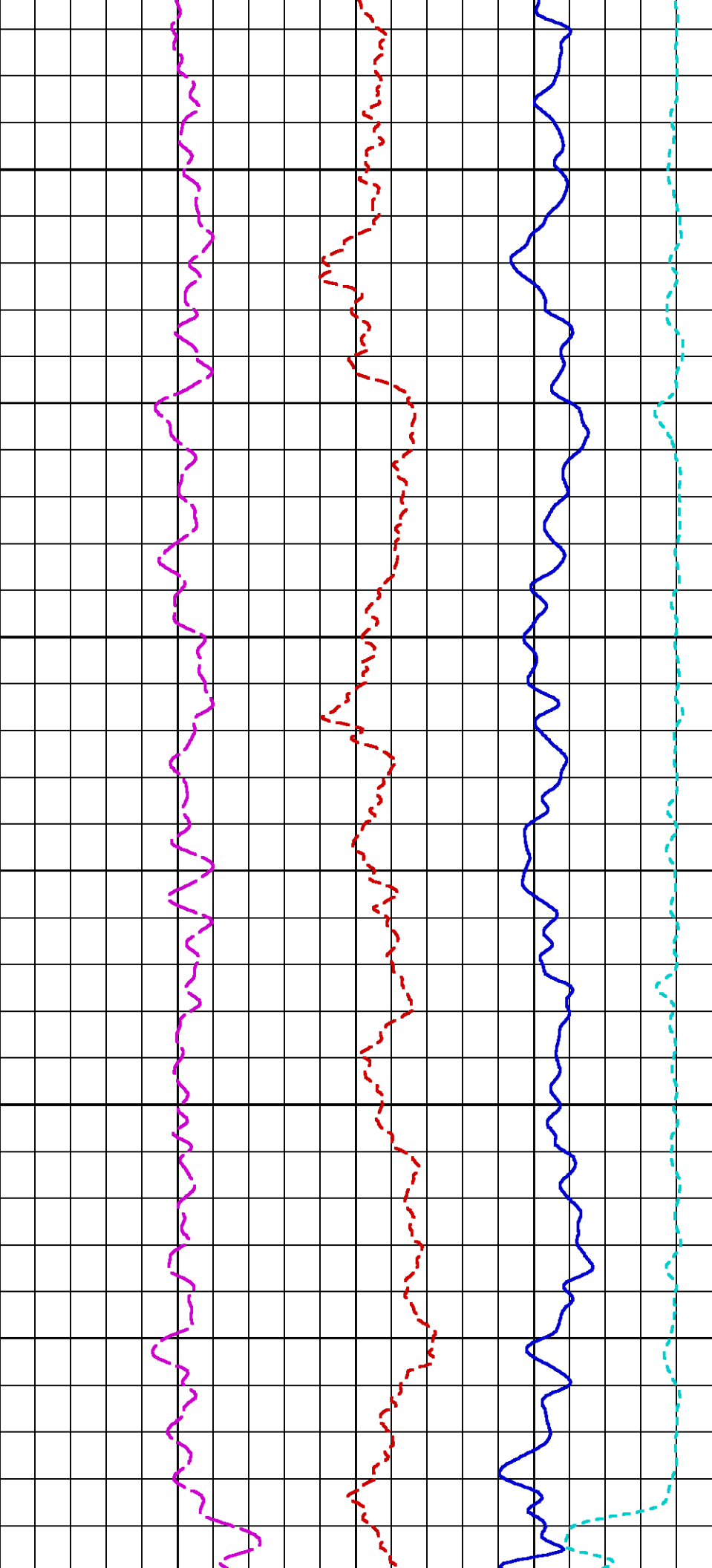


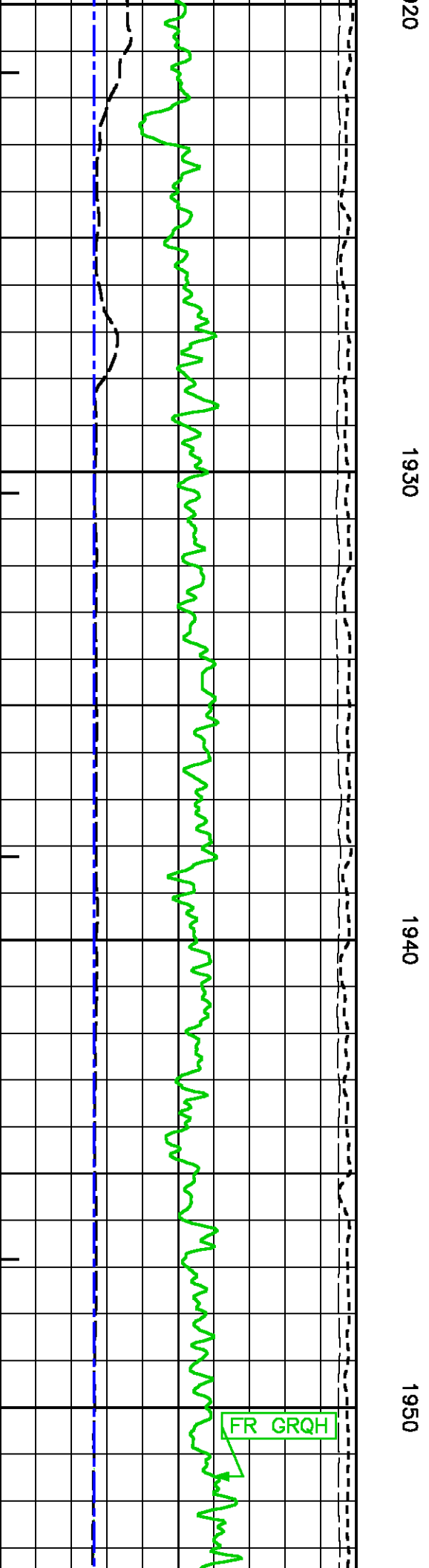
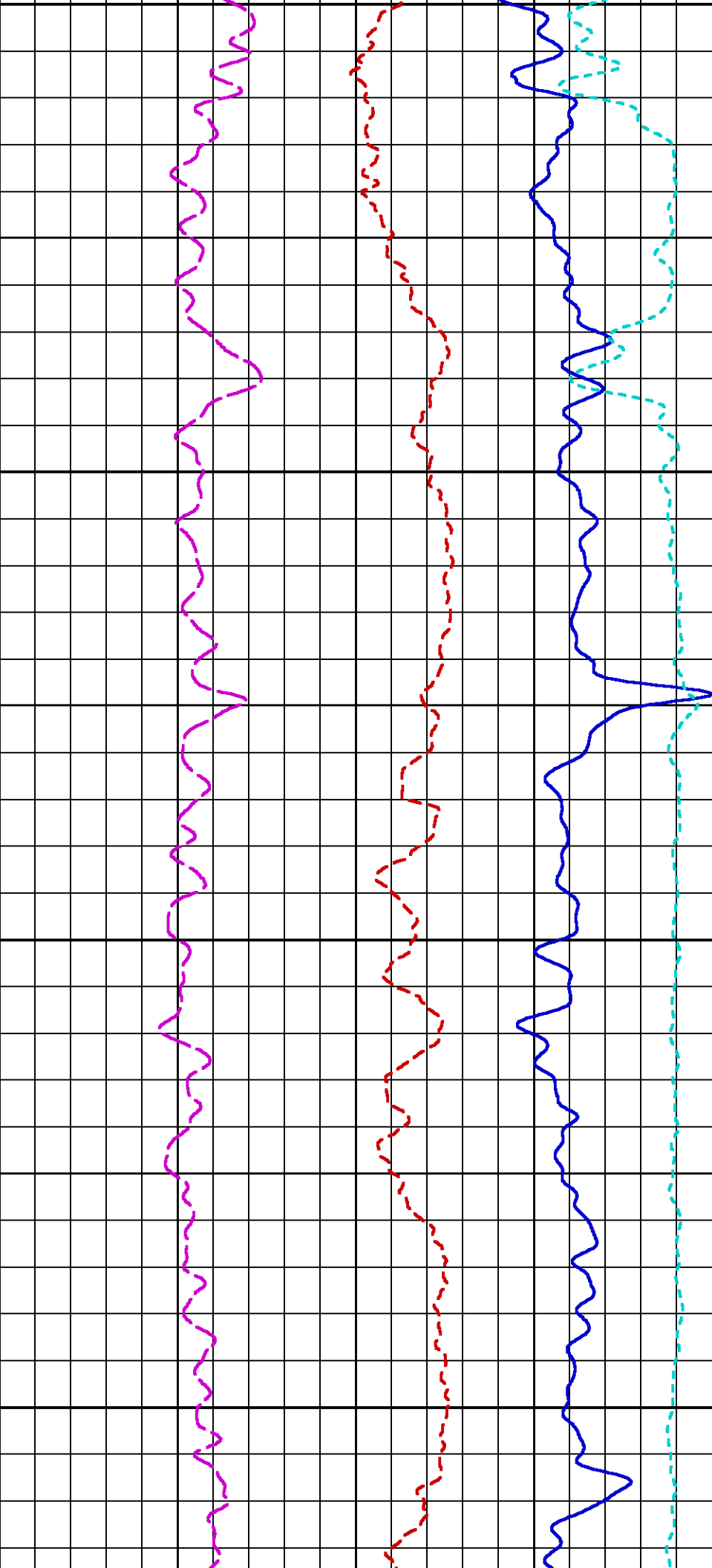


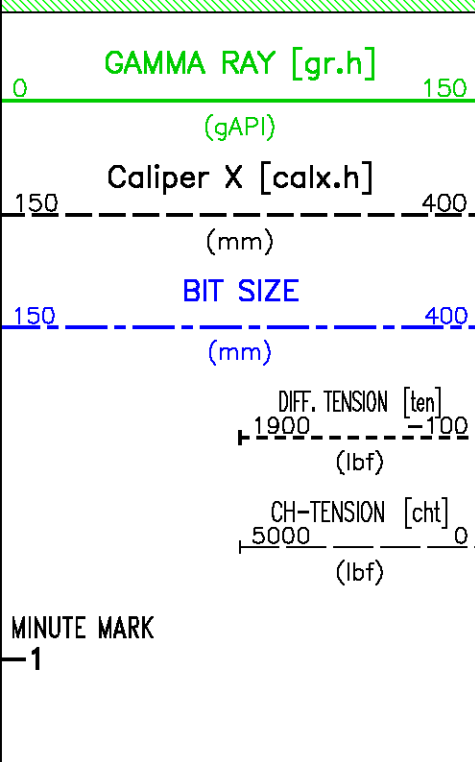
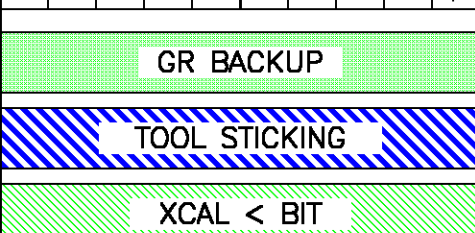
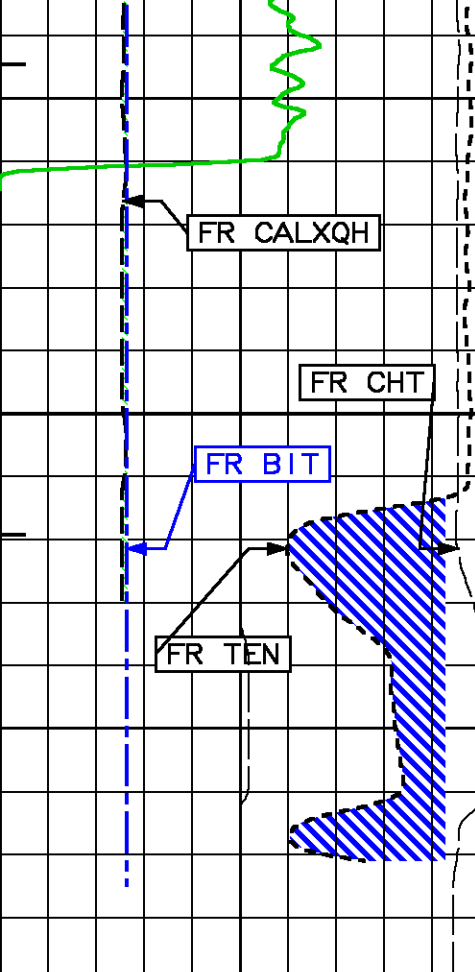








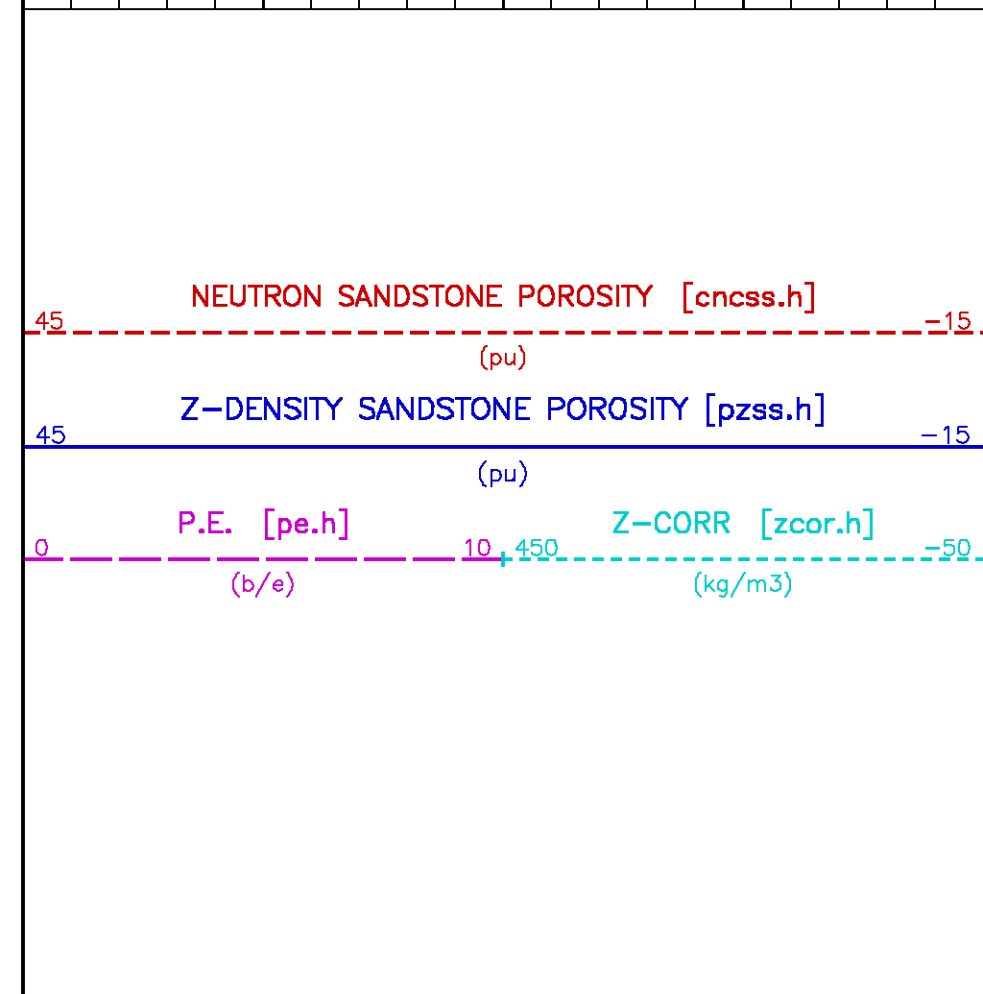
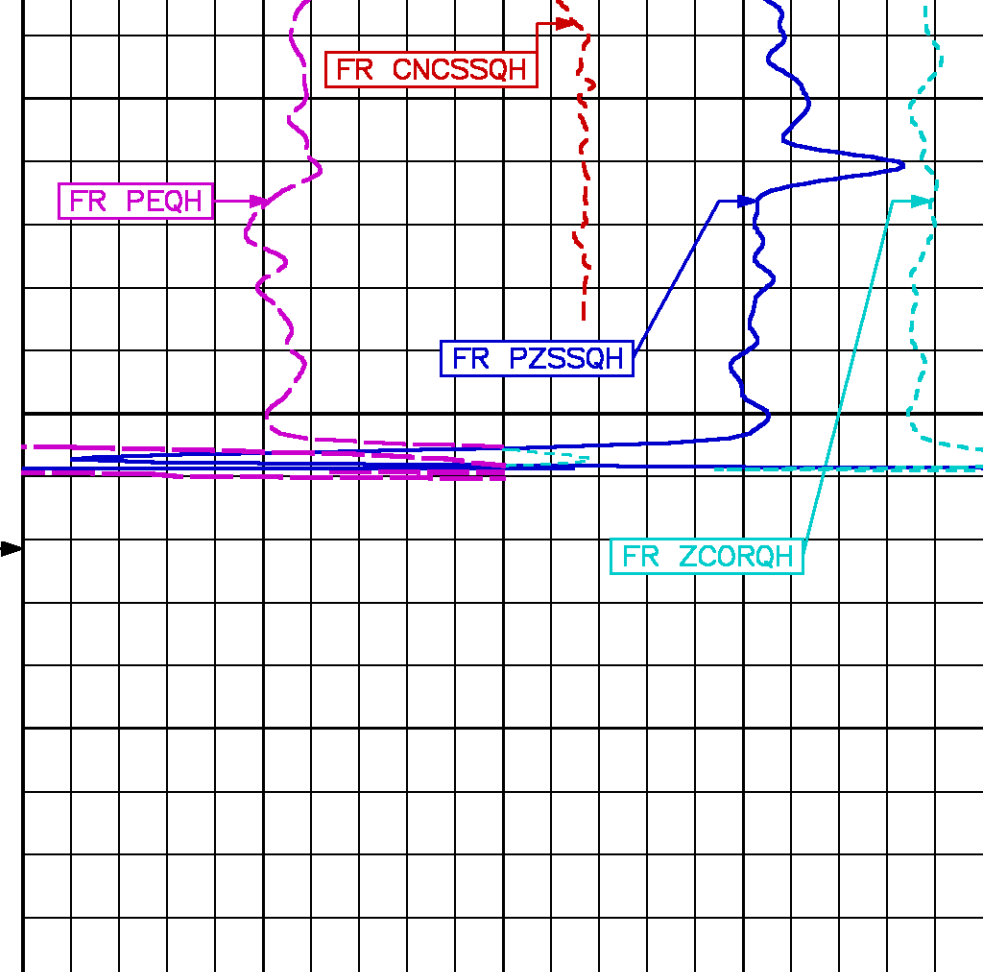




1960

TD

METERS



CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/pass/vulcan/k970a.tp1

GR PRIMARY CALIBRATION SUMMARY

Tool #: 3518EG 10395627

DATE/TIME PERFORMED: Wed Nov 25 11:08:43 2009

Unit #: 3880TA HL6555

Jig Series: 4702NK DA_305

Background	Calibrator ON	Jig Value	Mult	Background	Calibrator ON
		(gAPI)		(gAPI)	(gAPI)
33.71	786.82	185	0.246	8.28	193.28
		0.230	0.280		

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 3518EG 10395627 DATE/TIME PERFORMED: Wed Nov 25 11:18:42 2009 DAYS SINCE CAL: 0

UNIT #: 3880TA HL6555

Jig: INTRNL N/A

Counts	TEMP	HV
	(degC)	(V)
976.67	16.80	1361.74
929.00 1027.00	280.00	1237.00 1512.00

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 3518EG 10395627 DATE/TIME PERFORMED: Wed Nov 25 15:36:53 2009 DAYS SINCE CAL: 0

UNIT #: 3880TA HL6555

Jig: INTRNL N/A

Counts	TEMP	HV
	(degC)	(V)
976.67	21.35	1361.74
929.00 1027.00	280.00	1237.00 1512.00

CN PRIMARY CALIBRATION SUMMARY

TOOL #: 2436XA 10394243

DATE/TIME PERFORMED: Sat Nov 21 14:14:20 2009

UNIT #: 3880TA HL6555

CALIBRATOR #: 2437XB 113140

SOURCE #: 4718XA _N-929

SSN	LSN	SSN/LSN	MCF	CNRATIO	CN
DT CPS	DT CPS				PU

4733.57	811.07	5.83618	0.98301	5.73700	25.241
			0.95000	1.05000	

CN BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2436XA 10394243 DATE/TIME PERFORMED: Wed Nov 25 11:19:10 2009 DAYS SINCE CAL: 3

UNIT #: 3880TA HL6555 CALIBRATOR #: INTRNL N/A

SSN DT CPS	LSN DT CPS	SSN/LSN	TEMP (degC)	HV (V)	LV (V)
991.06	993.42	0.99762	12.4	1341.0	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 25 15:36:30 2009 DAYS SINCE CAL: 4

UNIT #: 3880TA HL6555 CALIBRATOR #: INTRNL N/A

SSN DT CPS	LSN DT CPS	SSN/LSN	TEMP (degC)	HV (V)	LV (V)
991.40	993.42	0.99797	16.9	1341.0	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: Sat Nov 21 16:26:08 2009

UNIT #: 3880TA HL6555

	SIZE (mm)	VALUE	MULTIPLIER	ADD
SMALL RING (Arm)	203.000	1708.0		
LARGE RING (Arm)	305.000	2920.0	0.08416	59.25740
PAD CLOSED		1552.0	0.06350	-98.55199

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10116105 DATE/TIME PERFORMED: Wed Nov 25 12:10:50 2009 DAYS SINCE CAL: 3

UNIT #: 3880TA HL6555

	VALUE	MULTIPLIER	ADD	SIZE (mm)
ARM	1988.0	0.08416	59.25740	226.6

PAD	1612.0	0.06350	-98.55199	3.8
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	ACTUAL (mm)	MEASURED (mm)
DIAMETER (arm+pad)	226.600	230.4
		216.4 236.8

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10116105 DATE/TIME PERFORMED: Wed Nov 25 15:35:23 2009 DAYS SINCE CAL: 3

UNIT #: 3880TA HL6555

	VALUE	MULTIPLIER	ADD	SIZE (mm)
ARM	2012.0	0.08416	59.25740	228.6
PAD	1615.6	0.06350	-98.55199	4.0

	ACTUAL (mm)	MEASURED (mm)
DIAMETER (arm+pad)	226.600	232.6
		216.4 236.8

ZDL PRIMARY CALIBRATION SUMMARY

TOOL: 2223XA 10116105

DATE/TIME PERFORMED: Sat Nov 21 16:11:03 2009

UNIT: 3880TA HL6555 CALB BLKS: 2225XA 112691 CS SRC: 4705XA 18204B PAD TYPE: PADTYP 7.5" PAD

SS CS PK (Channel)	LS CS PK (Channel)	SS_BKGD (cps)	LS BKGD (cps)
224.5	224.0	1218.5	1560.6
220.0 230.0	220.0 230.0		

	SS (cps)	LS (cps)	SHR	DEN (kg/m ³)	CORR (kg/m ³)	PE (b/e)
MG (LO PE)	40850.3	14562.9	0.789	1700.000	2.000	1.860
			0.720 0.890			
AL	25657.8	1677.3		2649.000	-19.000	
AL + SHIM	33975.5	2890.0		2550.000	101.000	
MG + SHIM (HI PE)	20546.3	7134.7	0.308			8.260
			0.280 0.360			
RATIO AL + SHIM/AL	1.32	1.72				
	1.30 1.40	1.60 1.80				
RATIO MG/AL	1.59	8.68				

1.58 1.70 8.55 9.55

ZDL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10116105 DATE/TIME PERFORMED: Wed Nov 25 11:22:04 2009 DAYS SINCE CAL: 3

UNIT #: 3880TA HL6555

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	3342.1	224.9	1453.0
	3332.1 3352.1	220.0 230.0	1250.0 1550.0
SS	22354.8	224.2	1424.7
	22344.8 22364.8	220.0 230.0	1250.0 1550.0
	LV (V)	PAD CURRENT (mA)	
	5.0	81.6	
	4.8 5.2	60.0 120.0	

ZDL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10116105 DATE/TIME PERFORMED: Wed Nov 25 15:35:44 2009 DAYS SINCE CAL: 3

UNIT #: 3880TA HL6555

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	3342.1	224.9	1451.0
	3332.1 3352.1	220.0 230.0	1250.0 1550.0
SS	22354.8	224.2	1431.0
	22344.8 22364.8	220.0 230.0	1250.0 1550.0
	LV (V)	PAD CURRENT (mA)	
	5.0	81.1	
	4.8 5.2	60.0 120.0	



Baker Atlas



COMPANY
WELL
FIELD
PROVINCE

VULCAN MINERALS INC.
VULCAN INVESTCAN RED BROOK #2
BAY ST.GEORGE BASIN
NEWFOUNDLAND AND LABRADOR

FILE NO:

API NO:

LOCATION:

ELEVATIONS:

KB 63.4 M
DF
GL 57.1 M

UID:

N/A

LICENSE:

ADW 2009-116-03-

BH LOC. LSD:

LAT 48.2679591667 LONG -58.7501141667

DATE

25-NOV-2009

