



FILE NO: US086866	COMPANY WPX ENERGY INC
API NO: 05103120820000	WELL FEDERAL RGU 323-24-198
	FIELD SULPHUR CREEK
	COUNTY RIO BLANCO
	STATE CO

Ver. 3.87	LOCATION: SHL: 2150' FSL & 1708' FEL PAD: 33-24-198 BHL: 2116' FEL & 1903' FWL RIG: CYCLONE 29	OTHER SERVICES BHP
	SEC 24 TWP 1S RGE 98W	

PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	GL KB KB	ELEVATION 21 FT ABOVE P.D.	ELEVATIONS: KB 6617 FT DF GL 6596 FT
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DATE	06-JUN-2014		
RUN	1	TRIP	1
SERVICE ORDER	US086866		
DEPTH DRILLER	12909 FT		
DEPTH LOGGER	12910 FT		
BOTTOM LOGGED INTERVAL	12902 FT		
TOP LOGGED INTERVAL	20 FT		
CASING DRILLER	9.625 IN	@ 3944 FT	@
CASING LOGGER	3938 FT		
BIT SIZE	8.75 IN		
TYPE OF FLUID IN HOLE	LSND		
DENSITY	9.7 LB/G	44 CP	
PH	8.8	5.6 C3	
SOURCE OF SAMPLE	FLOWLINE		
RM AT MEAS. TEMP.	1.08 OHMM	@ 75 DEGF	@
RMF AT MEAS. TEMP.	0.93 OHMM	@ 75 DEGF	@
RMC AT MEAS. TEMP.	1.31 OHMM	@ 75 DEGF	@
SOURCE OF RMF	RMC	CALCULATED	
RM AT BHT	0.56 OHMM	@ 249 DEGF	@
TIME SINCE CIRCULATION	12 HRS		
MAX. RECORDED TEMP.	251 DEGF		
EQUIP. NO.	HL 6741	WOODWARD	
RECORDED BY	IVAN ZALESKIH		
WITNESSED BY	MR TED RAGSDALE		

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE THE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

BOREHOLE RECORD		
BIT SIZE	FROM	TO
8.75 IN	3944 FT	10609 FT
7.875 IN	10609 FT	12909 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN	36 LB/F	NA	0 FT	3944 FT

REMARKS

RUN 1 TRIP 1: HDIL/ZDL/CN/GR/TTRM RAN IN COMBINATION

BVOL AND CVOL PRESENTED IN CUBIC FEET
CVOL CALCULATED USING PROPOSED 4.5" CASING
CALIPER VERIFIED IN CASING

RHO MATRIX = 2.68 G/CC
RHO FLUID = 1.0 G/CC

CN MATRIX = SANDSTONE
CN RAN DECENTRALIZED

1.5" STANDOFFS WAS RUN WITH THE RESISTIVITY TOOL
ABC CALCULATED = STAND OFF
M2R2 WAS PRESENTED INSTEAD OF M2R1 DUE TO BETTER QUALITY

THANK YOU FOR CHOOSING BAKER HUGHES WIRELINE SYSTEMS
CREW: J. GIBSON, V. STEPHENS, A. ALDRICH, D. BARNARD

RIG: CYCLONE 29

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	SIVIWEL	3944XD	12099648	FREE
1	1	TTRM	3981XA	10247159	FREE
1	1	WTS	3514XB	10042840	FREE
1	1	DSL	1329XA	10203000	FREE
1	1	CN	2446XA	10342164	DECENTRALIZED
1	1	ZDL	2234MA	10231795	PAD DEVICE
1	1	HDIL	1515EA/MA	1017847/10307148	STOOD OFF

MAIN LOG 2"/100FT SCALE

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013

Updates: 1

Plotted: Fri Jun 6 12:03:17 2014

PARAMETER AND FILTER SUMMARY REPORT

File: /dat1a/WPX_RGU_323_24_198/n777q03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 75.669 ft BOTTOM DEPTH: 12938.858 ft

SYMMETRIC FILTER

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

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
BIT SIZE	BIT SIZE	8.750	in	TOP	10571.712
		7.875	in	10571.712	BOTTOM
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	133.0	degF	TOP	BOTTOM
	MUD SAMPLE RES	0.630	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	77.0	degF	"	"
	at BH REF DEPTH	0.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	8.750	in	TOP	10595.536
		7.875	in	10595.536	BOTTOM
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		TOP	BOTTOM

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTEMP		TOP	BOTTOM

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

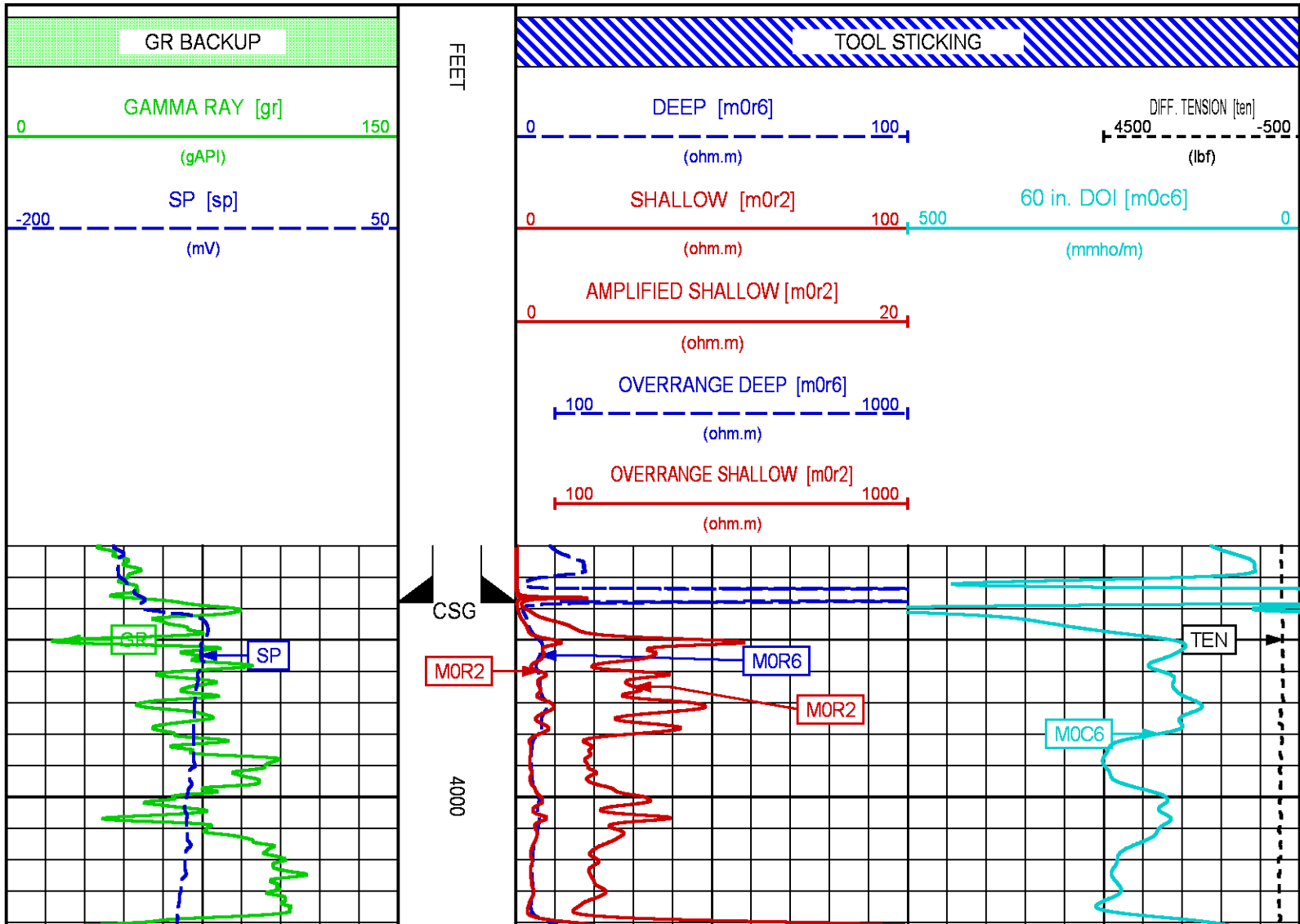
CURVE DESCRIPTION REPORT

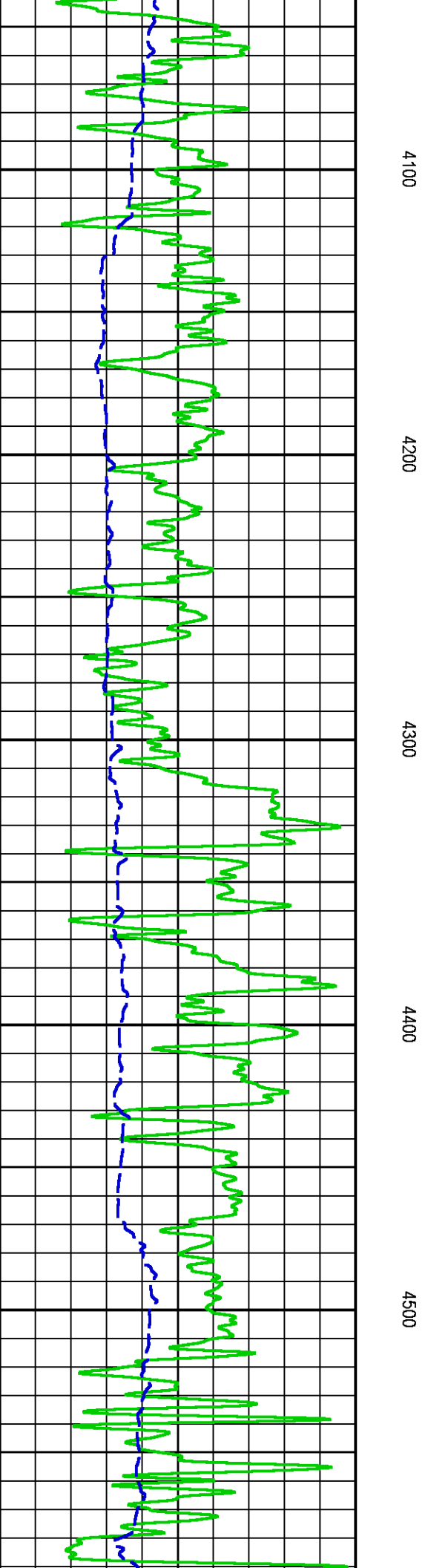
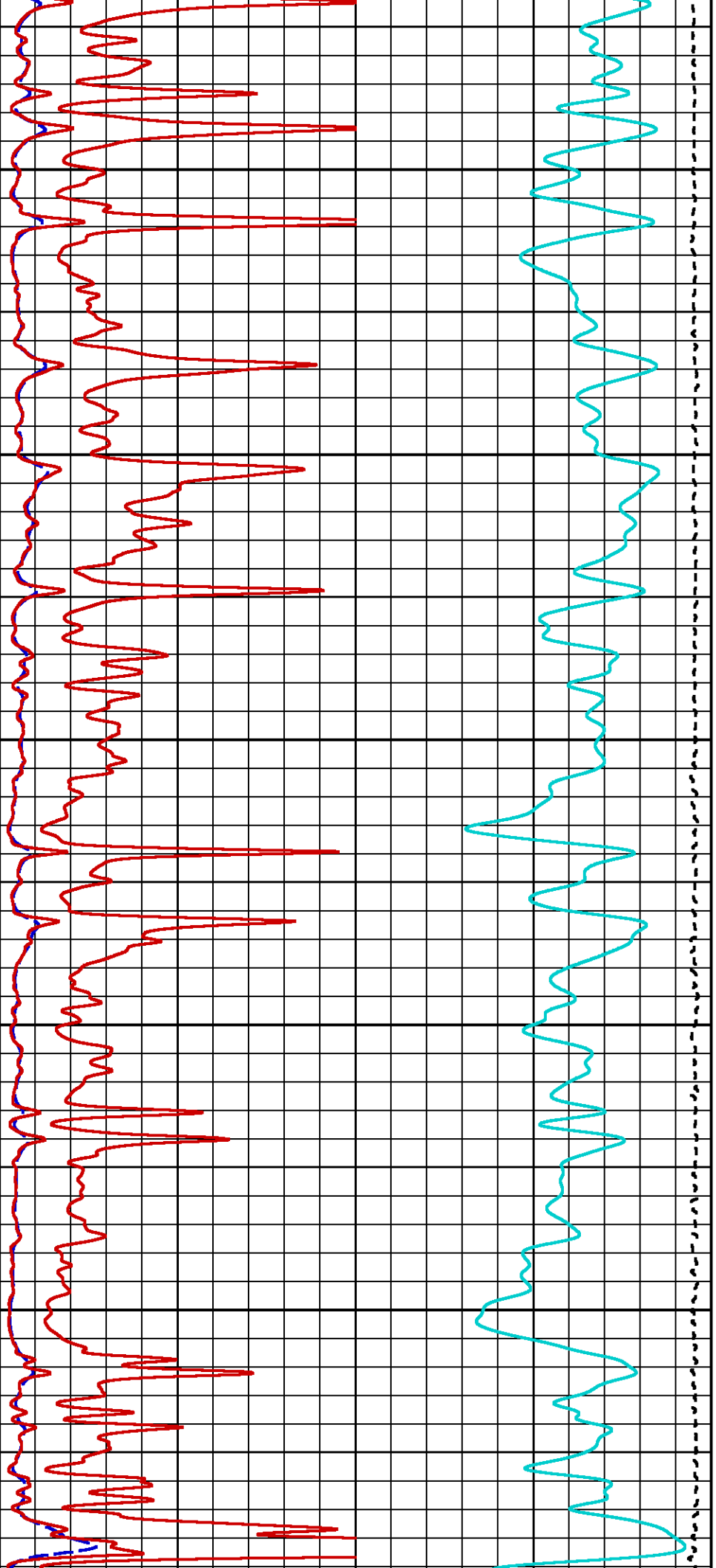
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
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F1:M0R2	Jun 6 06:07:48 2014	TRUE FOCUSED RESISTIVITY FOR HDIL, 20-INCH DOI
F1:M0R6	Jun 6 06:07:48 2014	TRUE FOCUSED RESISTIVITY FOR HDIL, 60-INCH DOI
F1:SP	Jun 6 06:07:48 2014	SPONTANEOUS POTENTIAL
F1:TEN	Jun 6 06:07:48 2014	DIFFERENTIAL TENSION

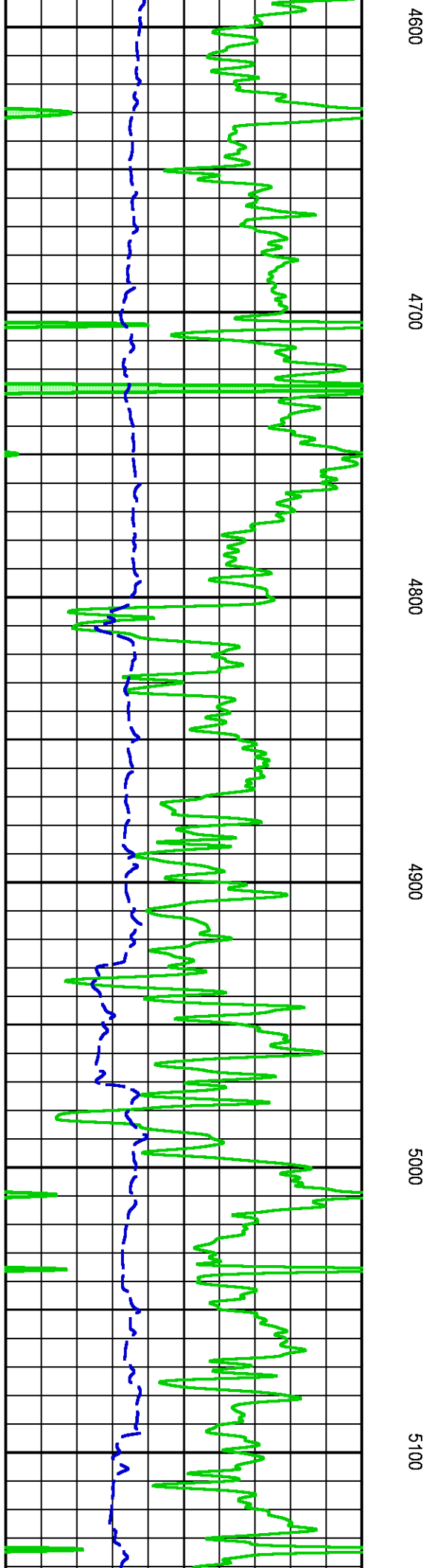
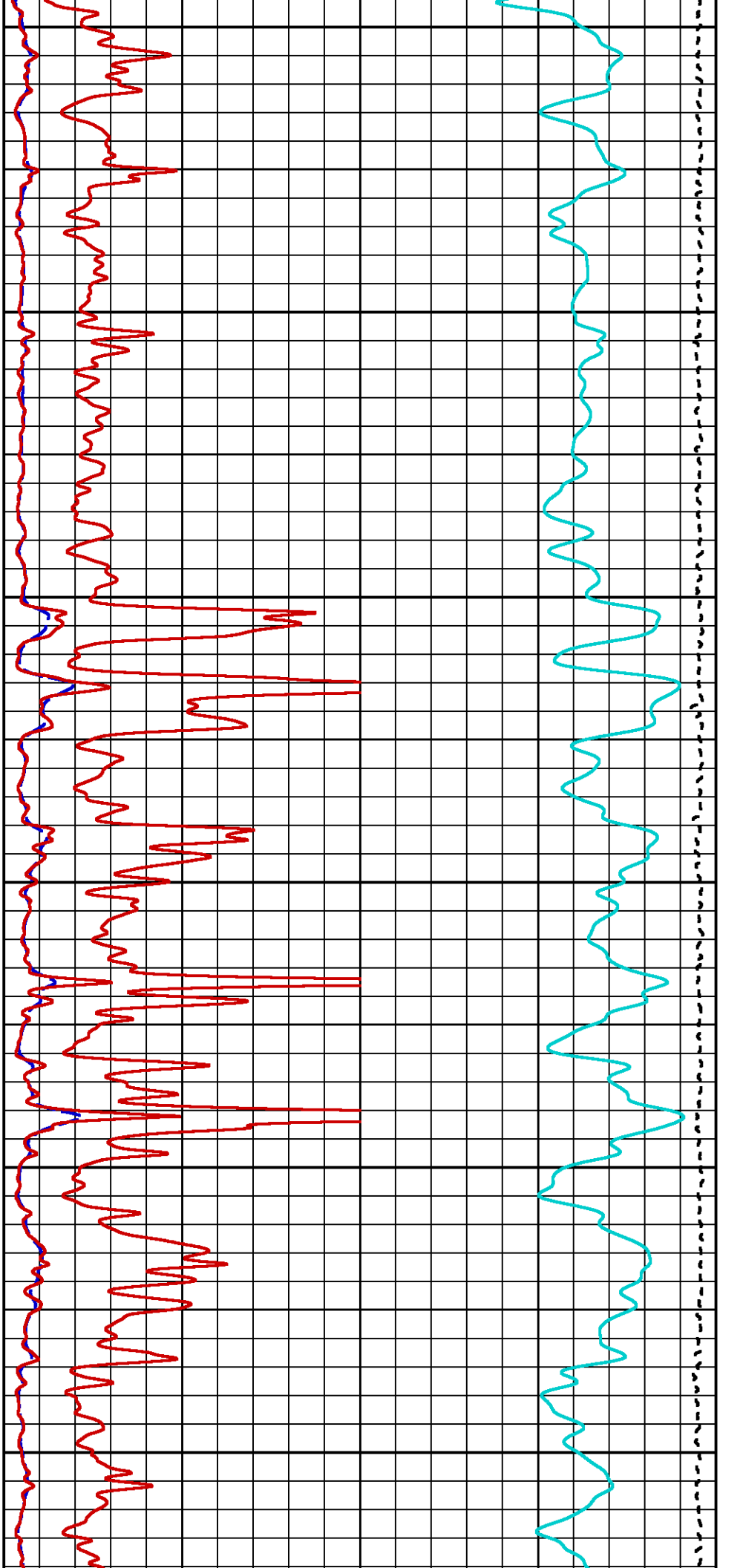
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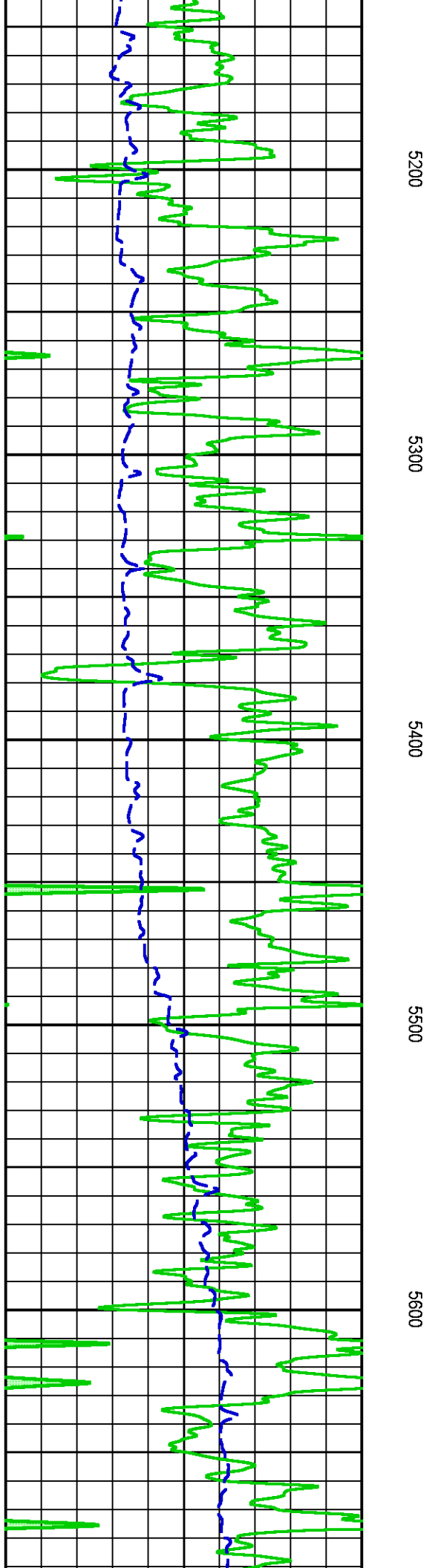
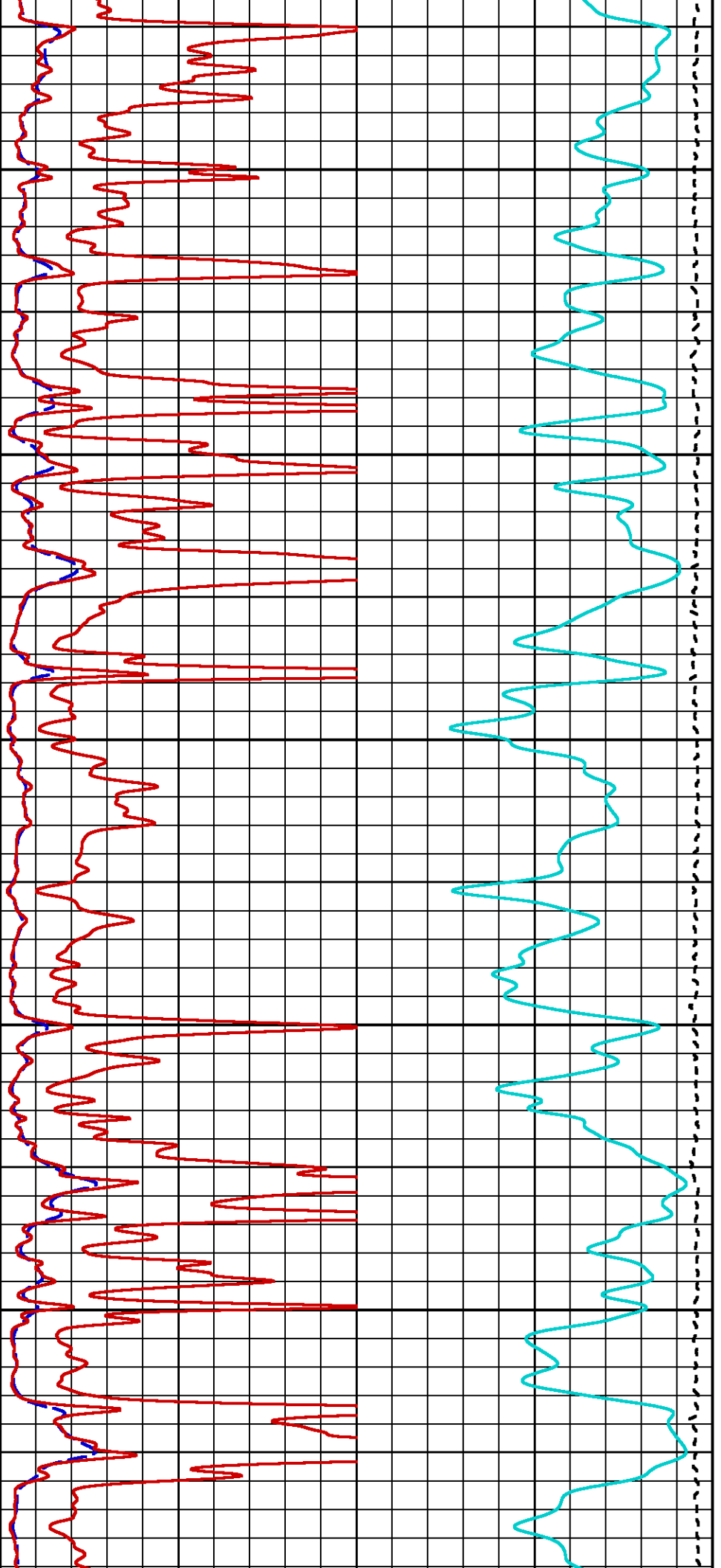
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
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M0C6	8.00	M0R6	8.00	TEN	0.00		

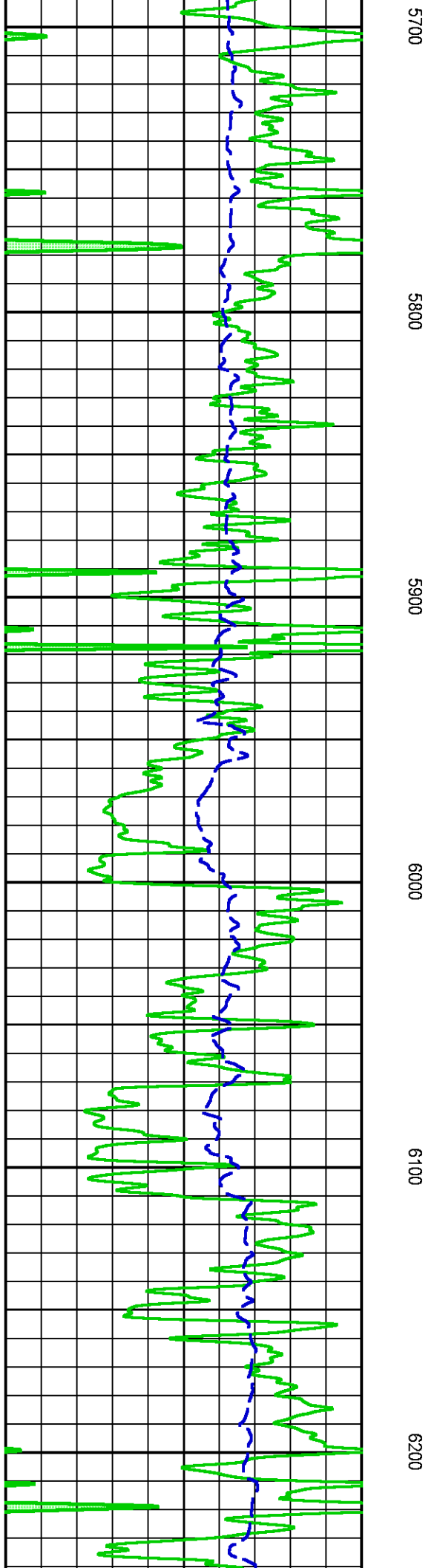
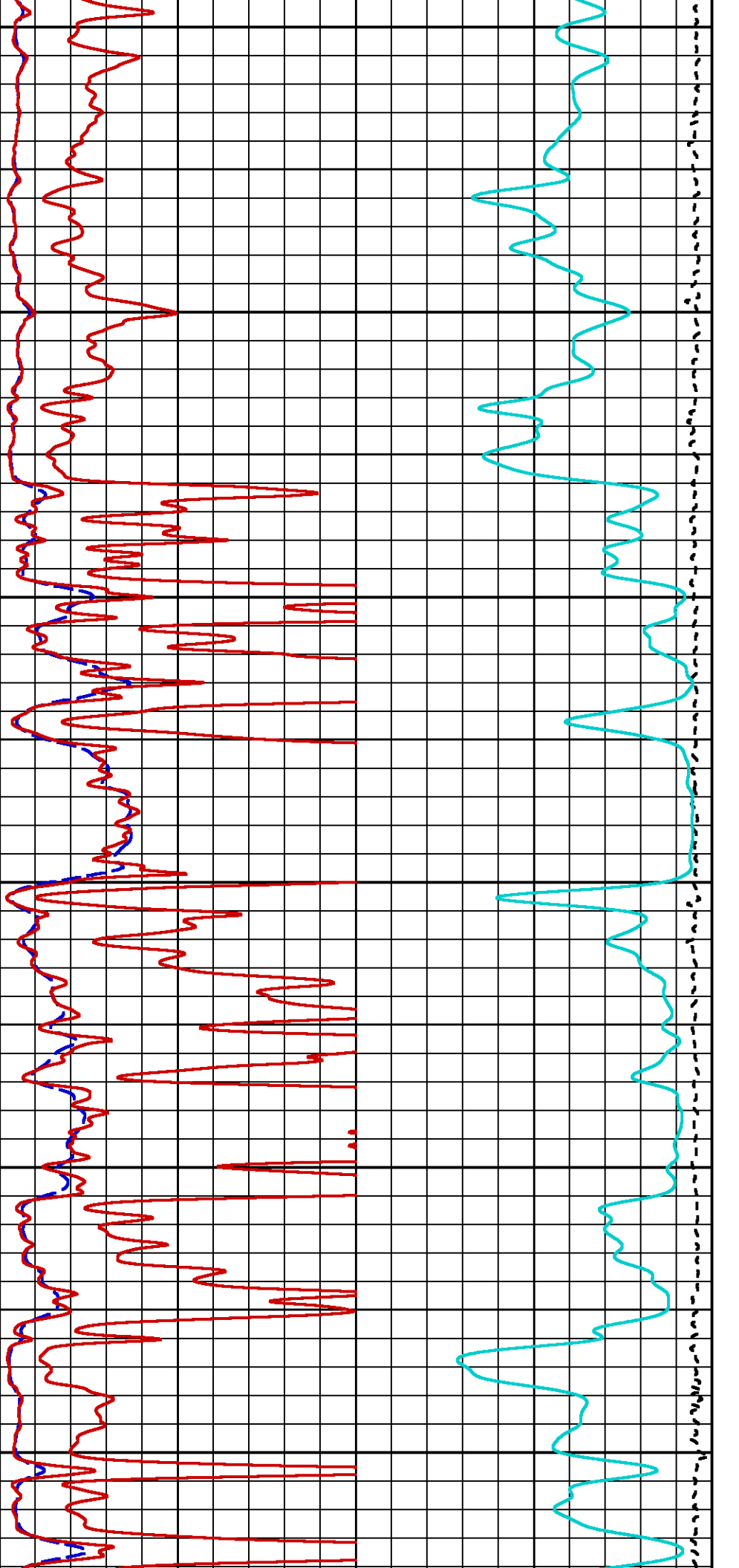
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Plot Interval	: 3920 - 12933 Feet
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Created On	: Jun 6 06:07:48 2014
Company	: WPX ENERGY INC
Well	: FEDERAL RGU 323-24-198
Field	: SULPHUR CREEK
File Interval	: 9.25 - 12934.2 Feet
OCT	: n777q

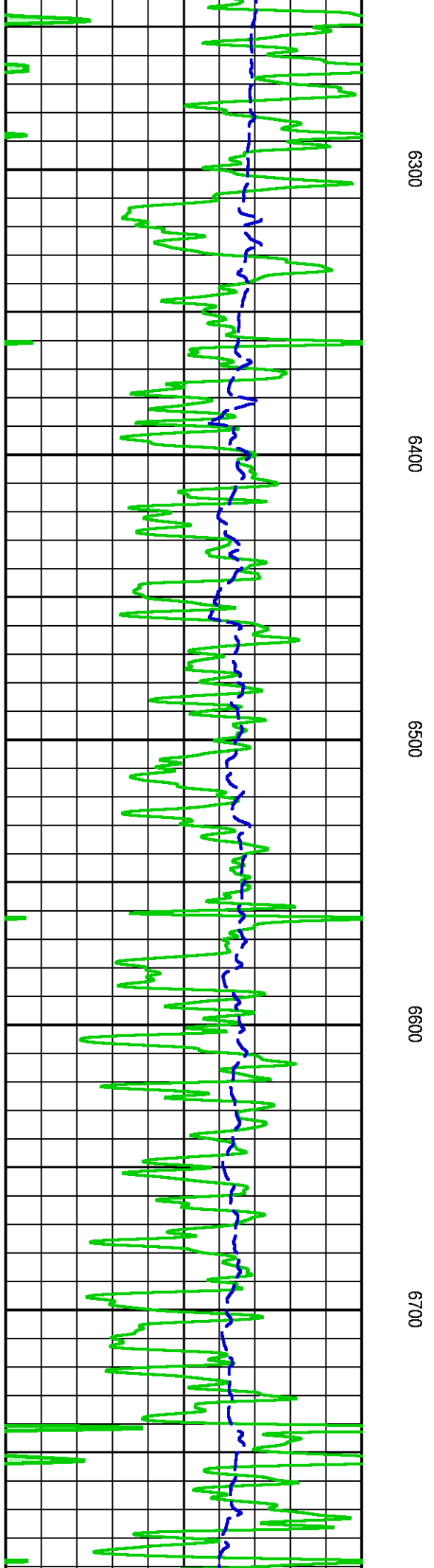
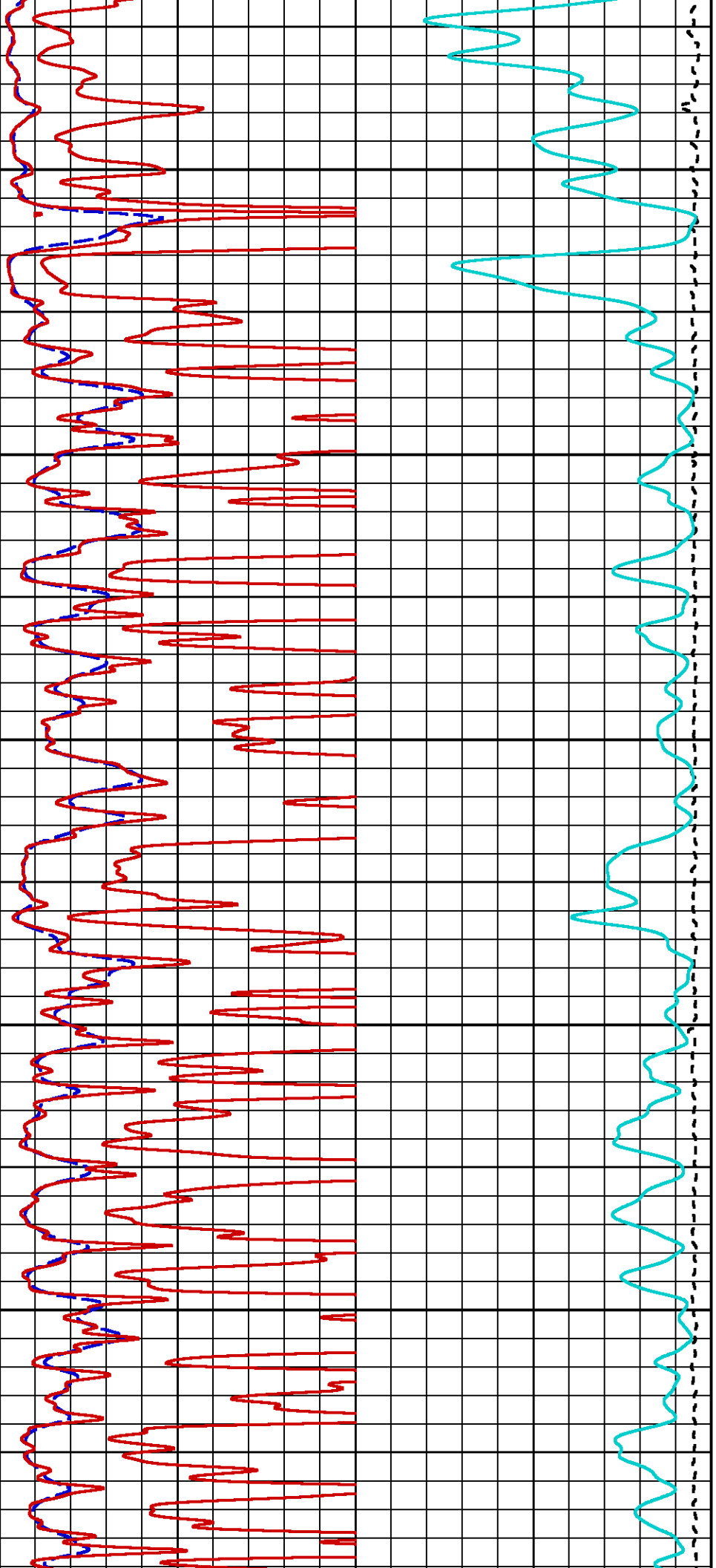


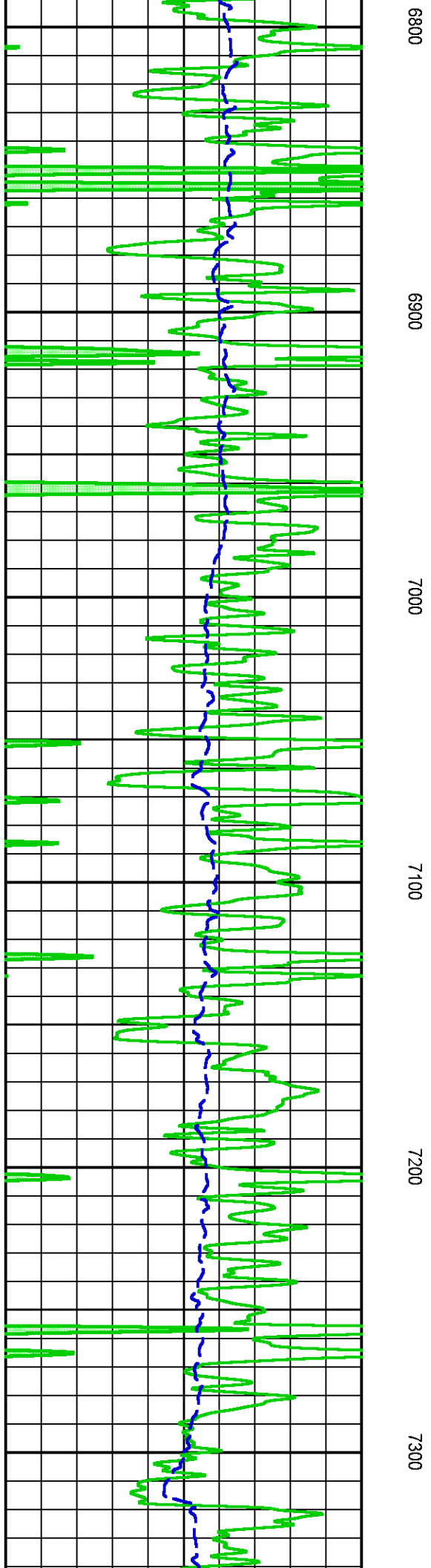
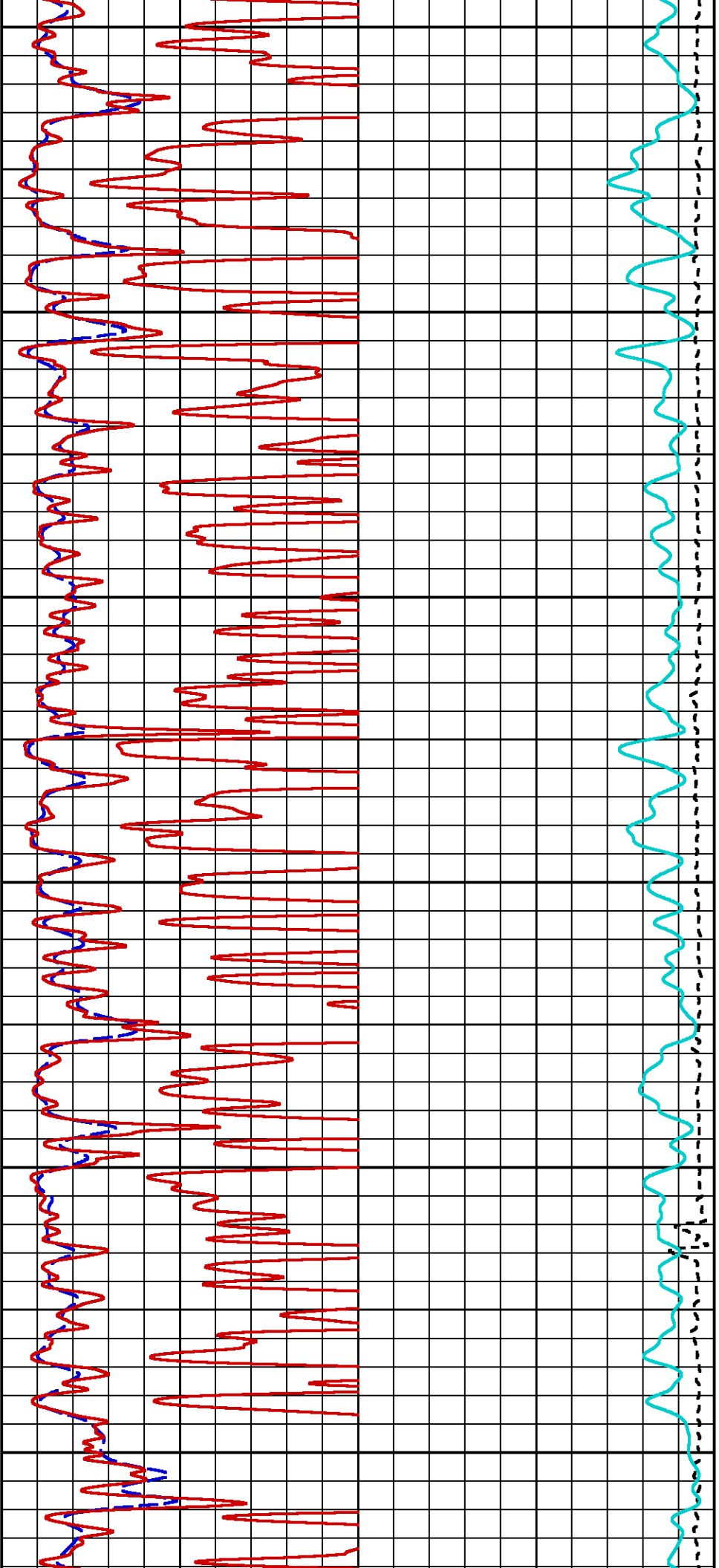


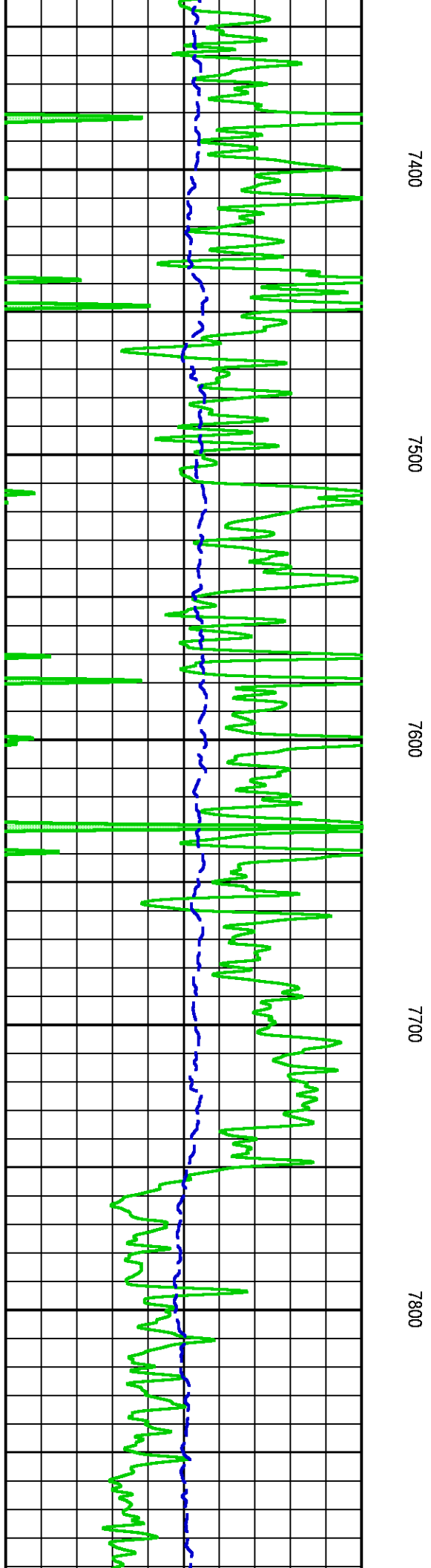
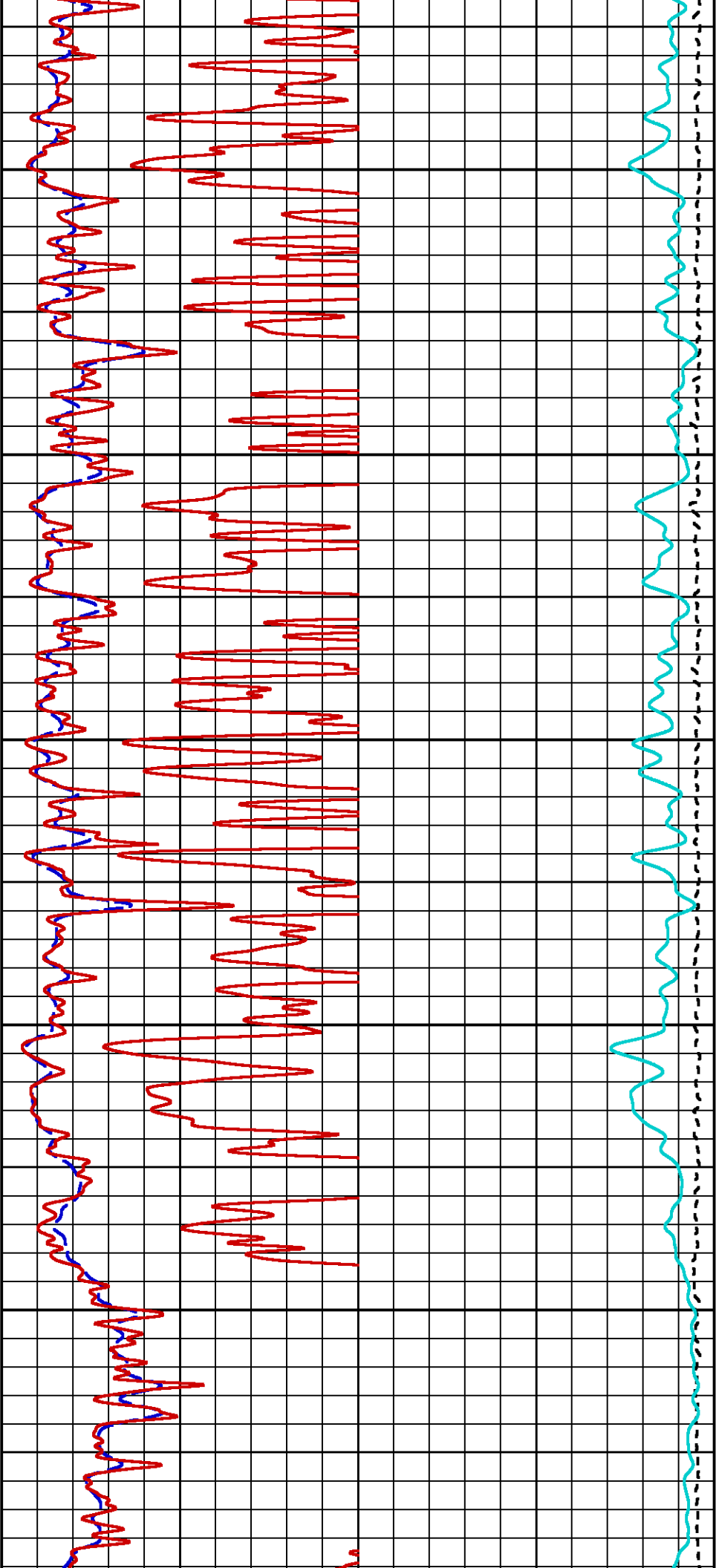


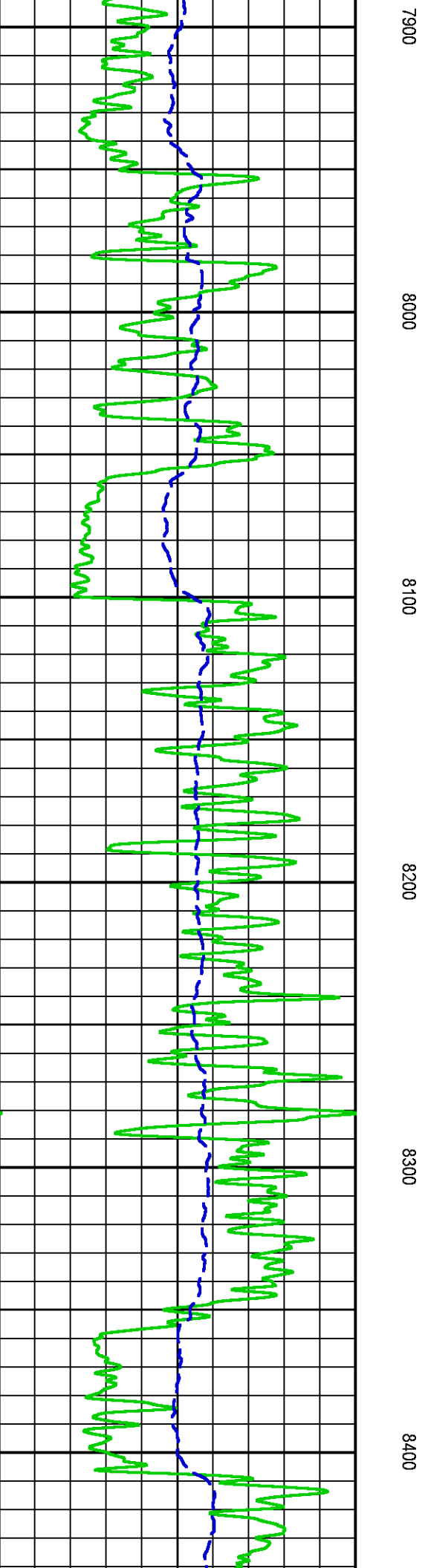
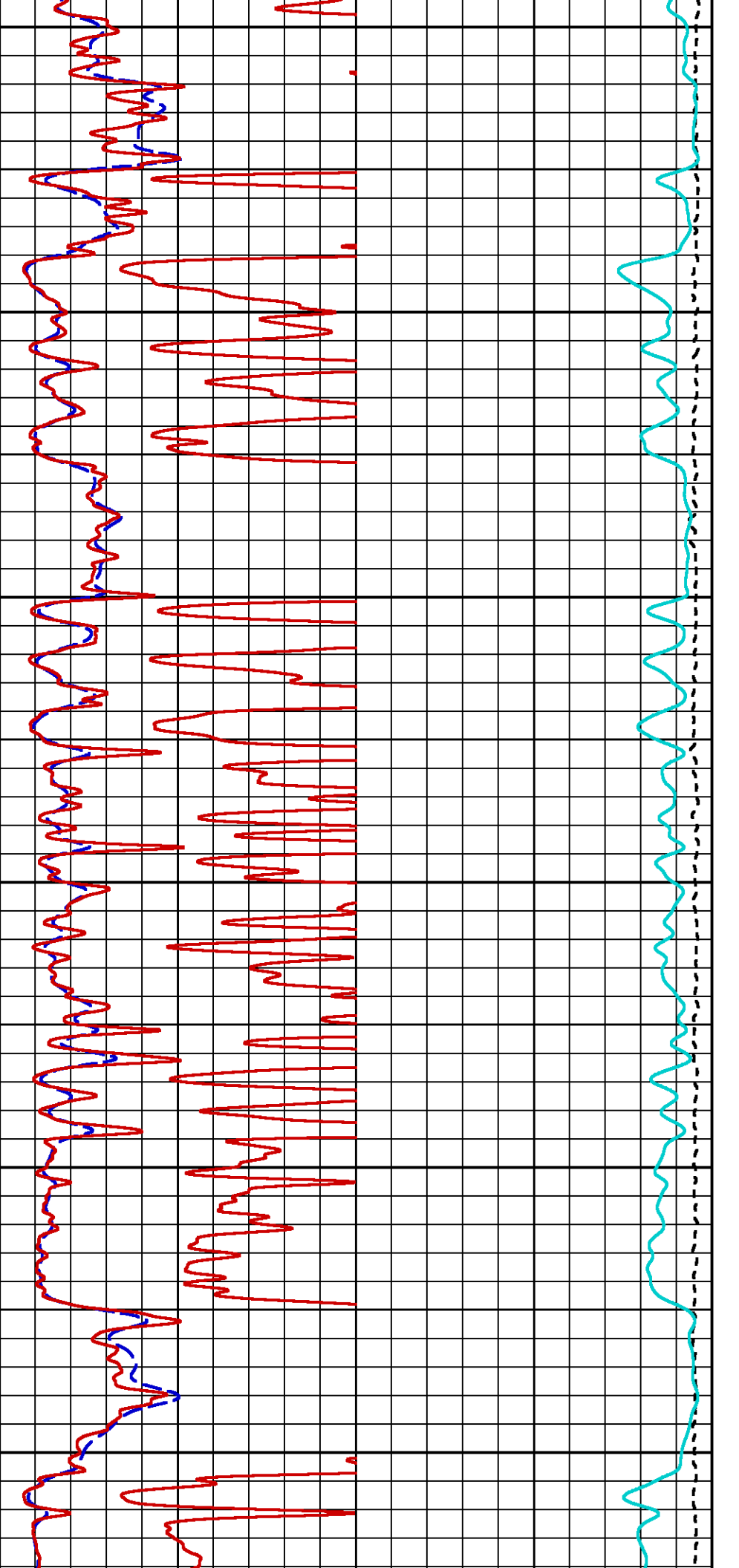


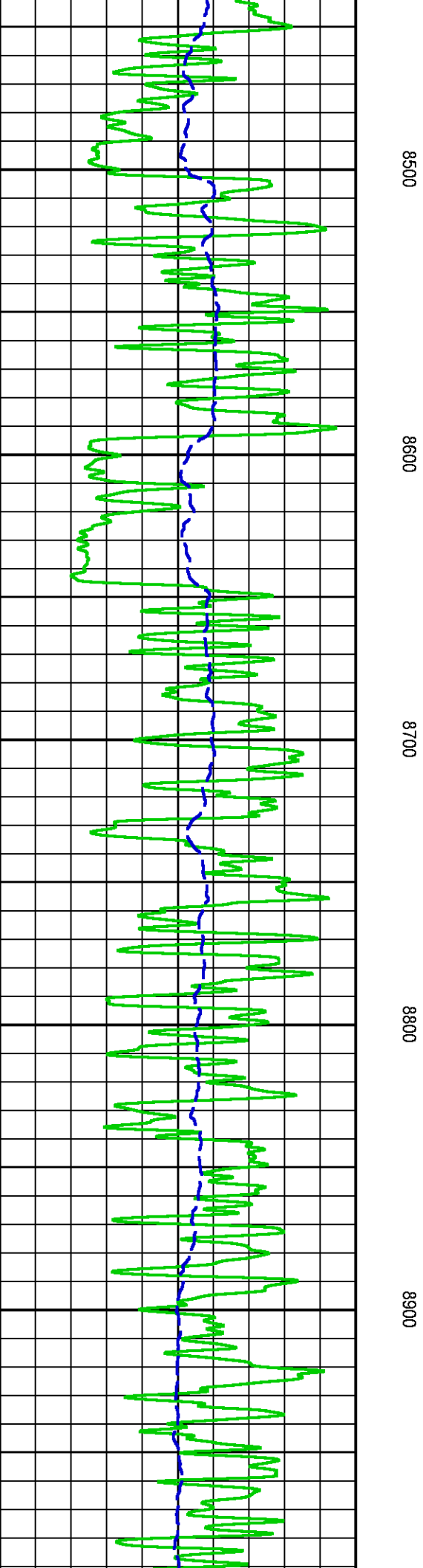
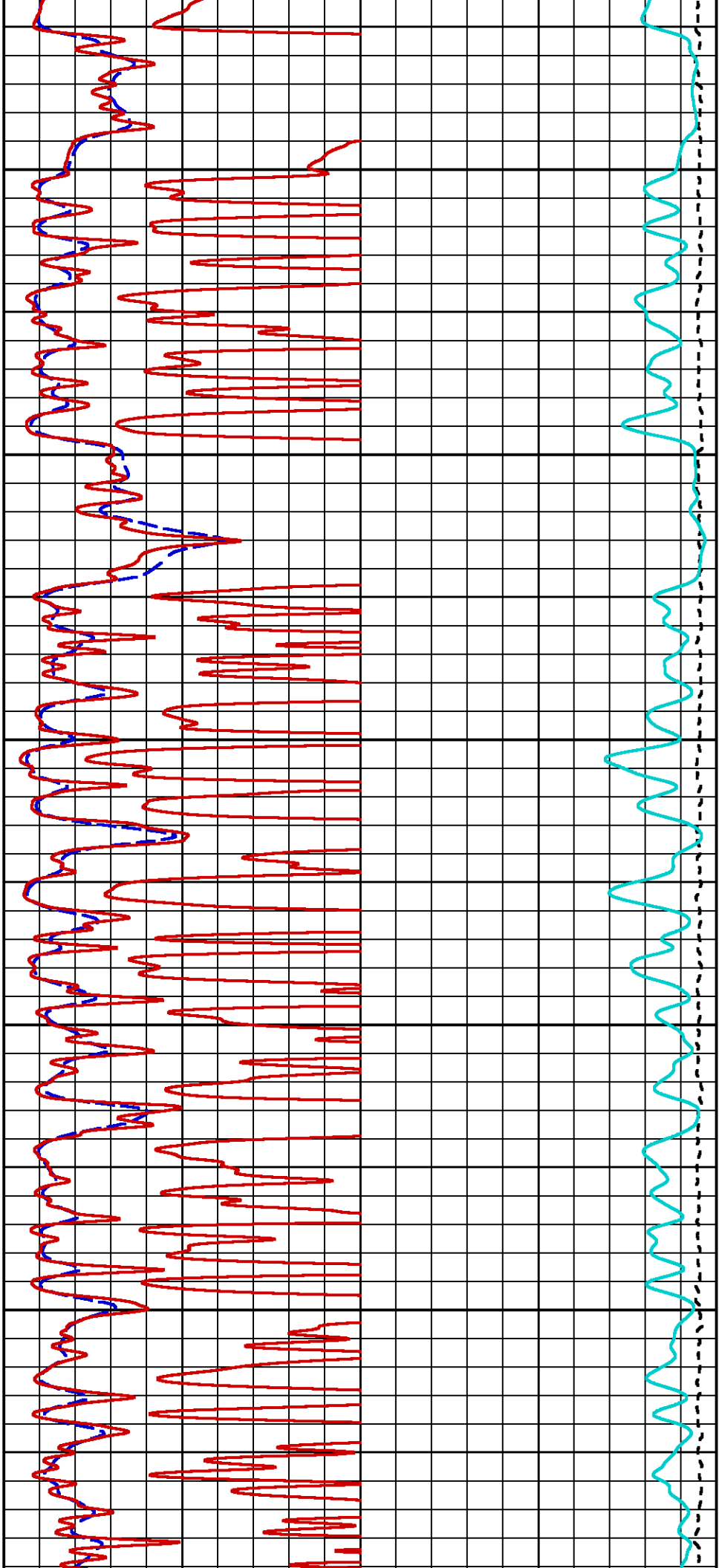


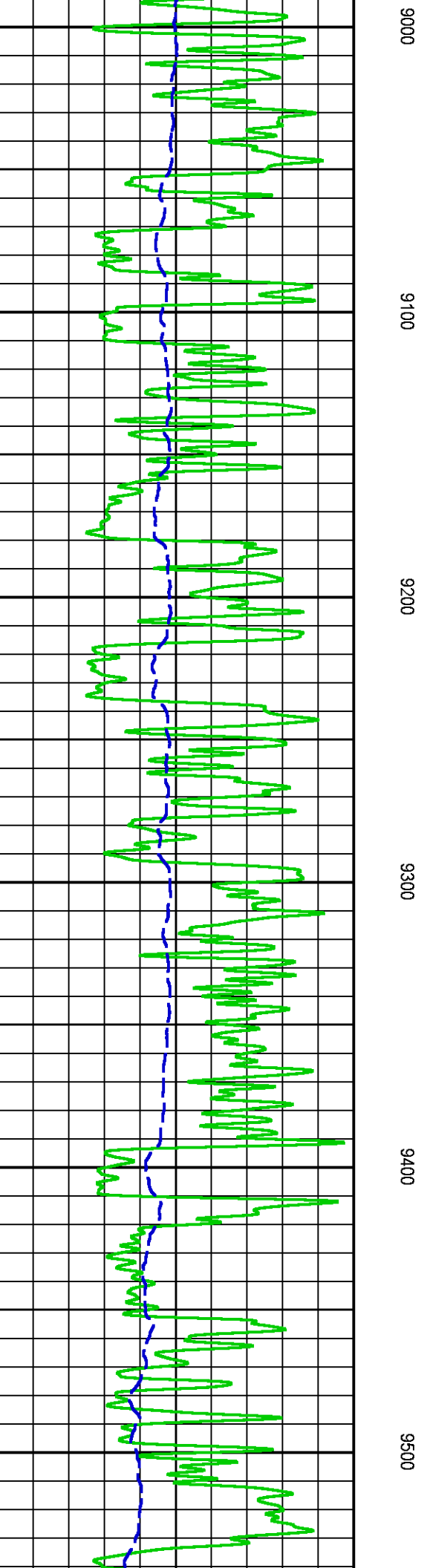
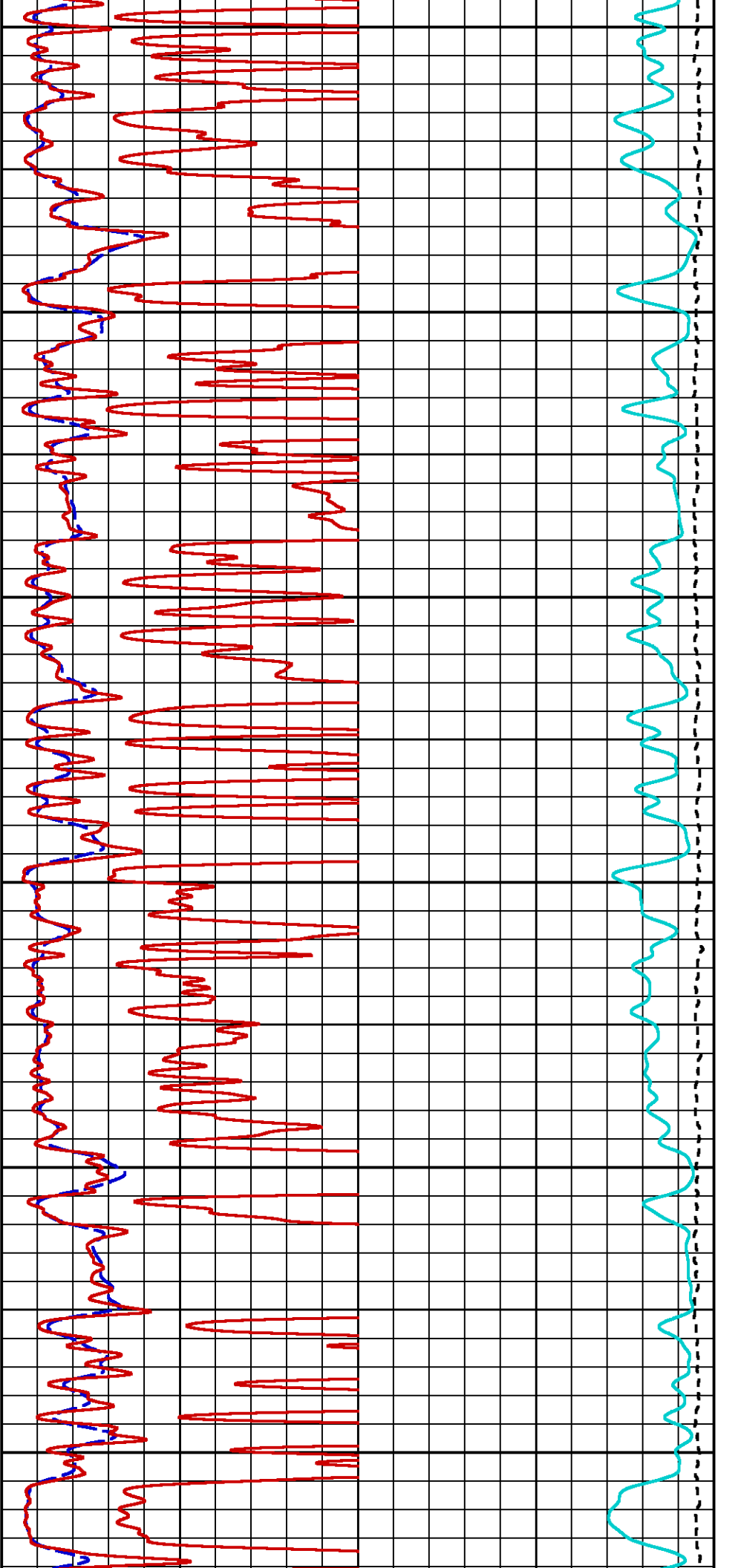


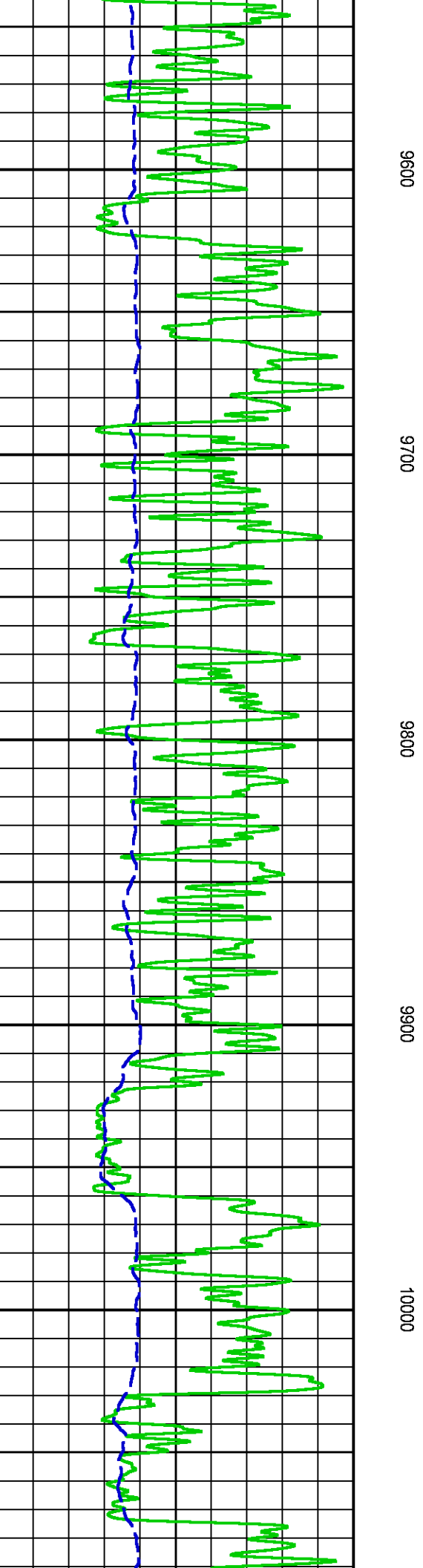
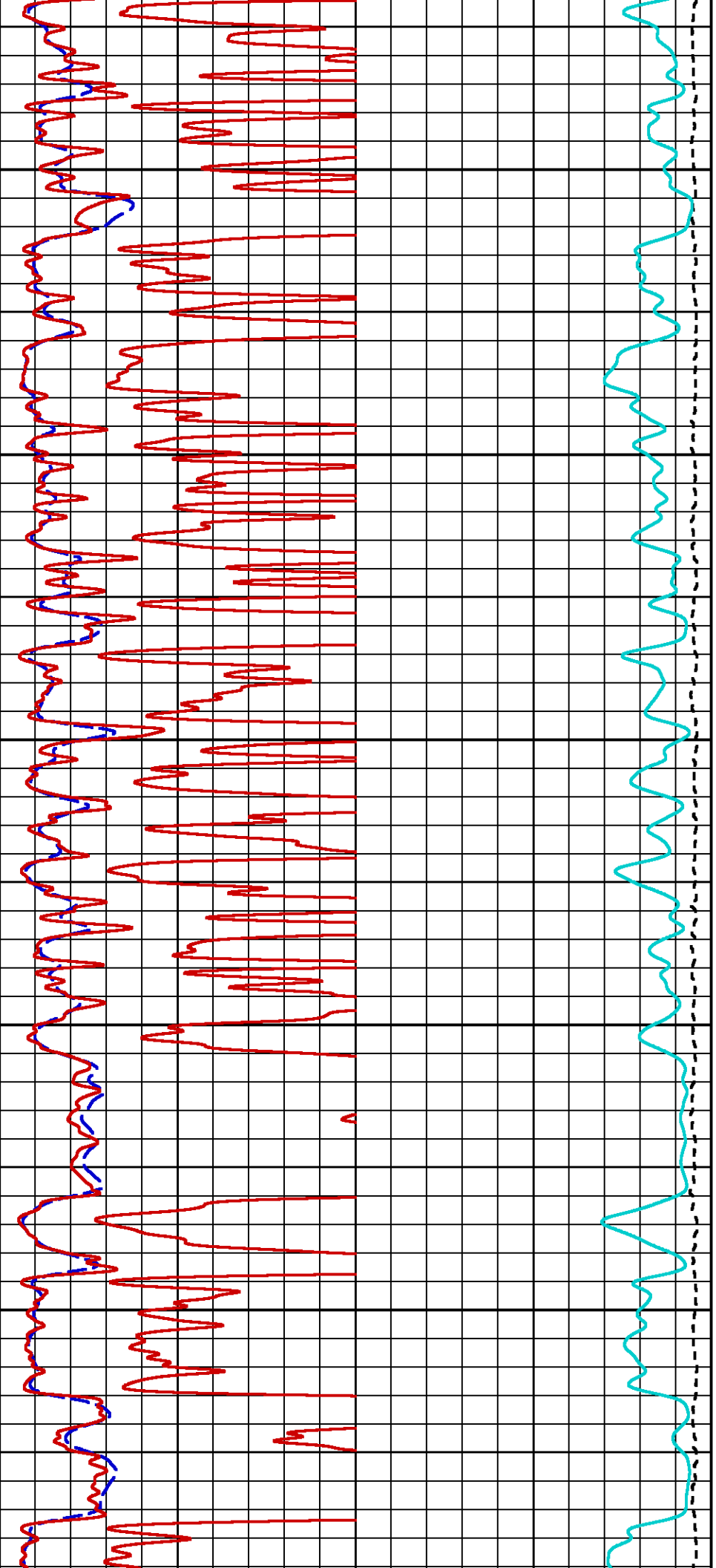


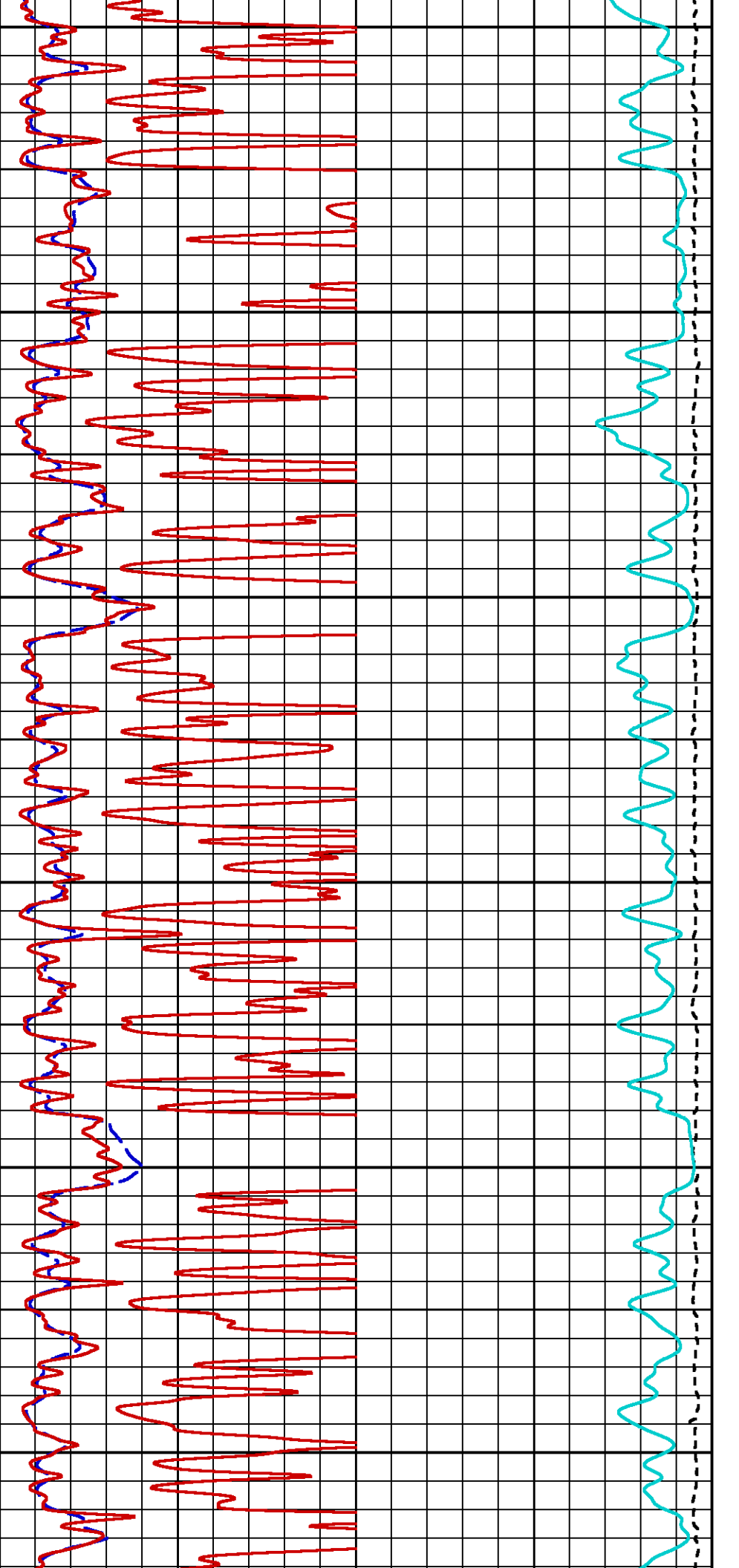












10100

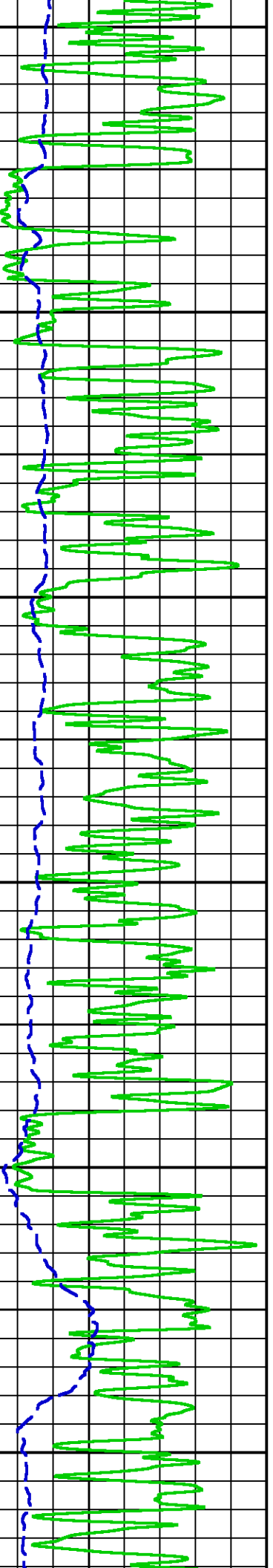
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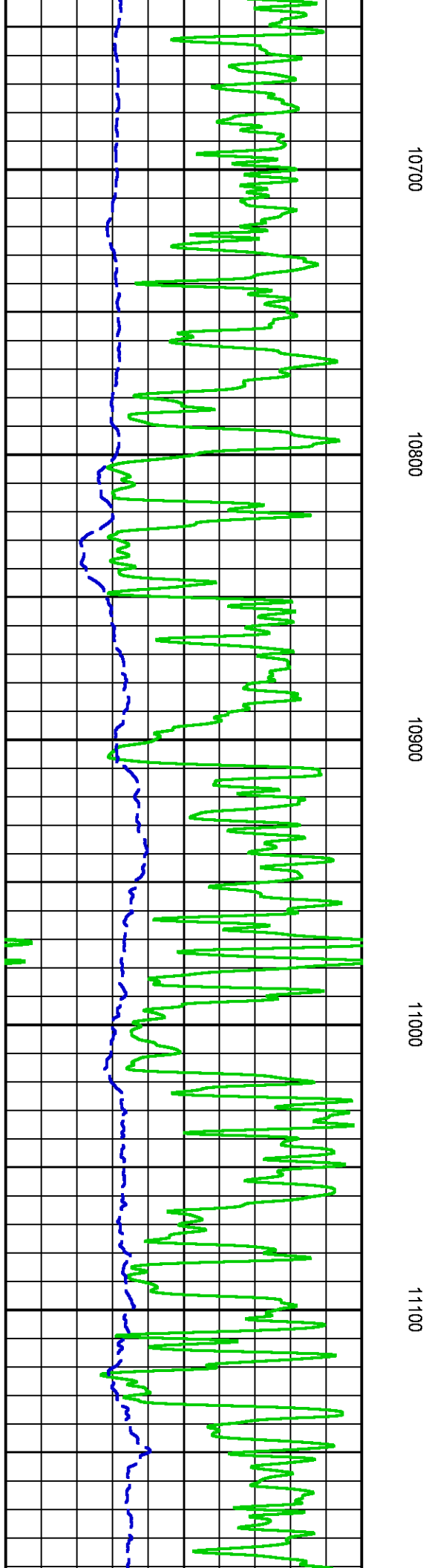
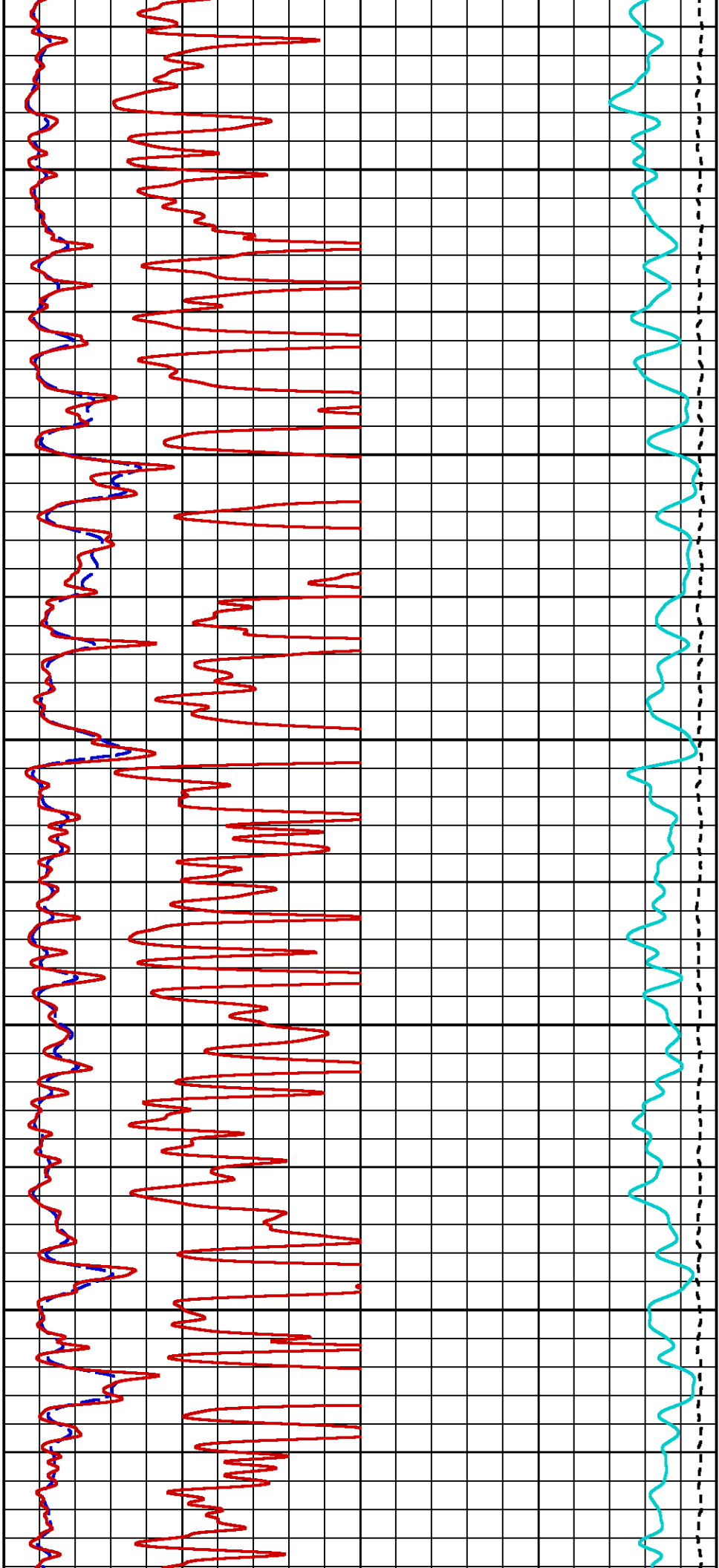
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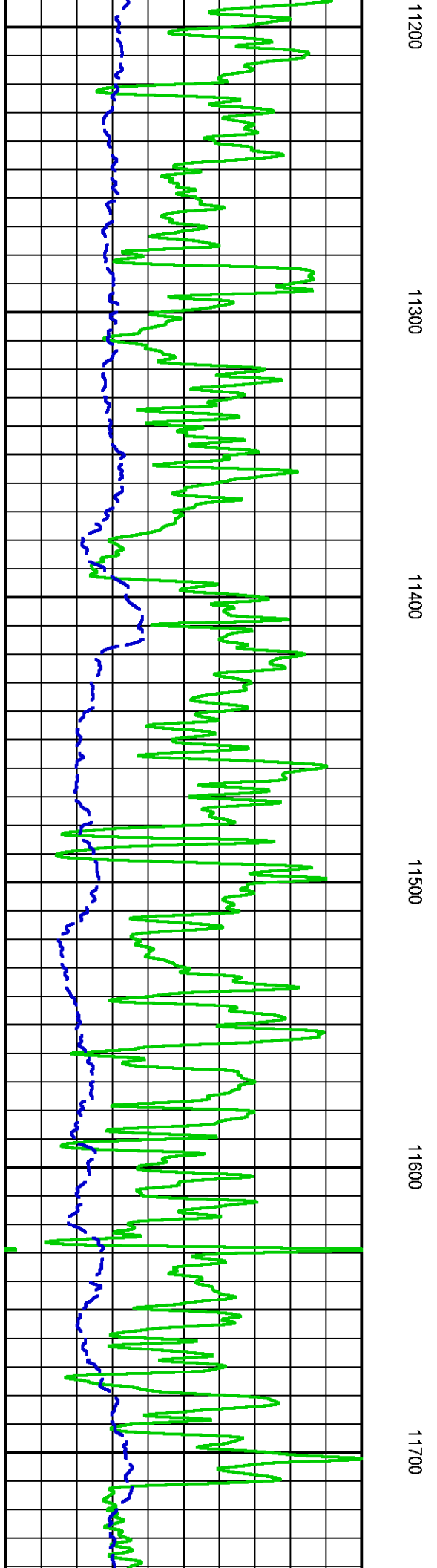
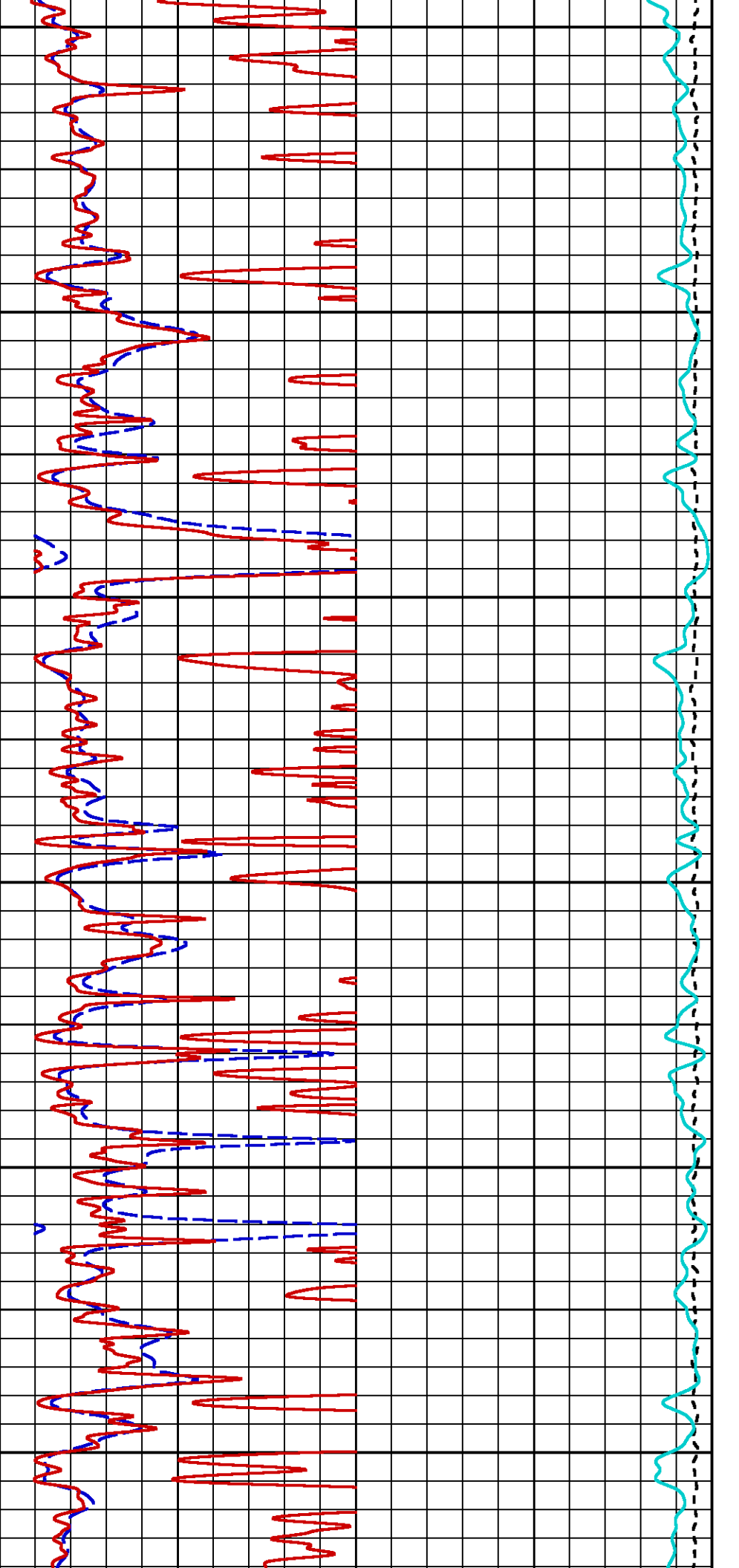
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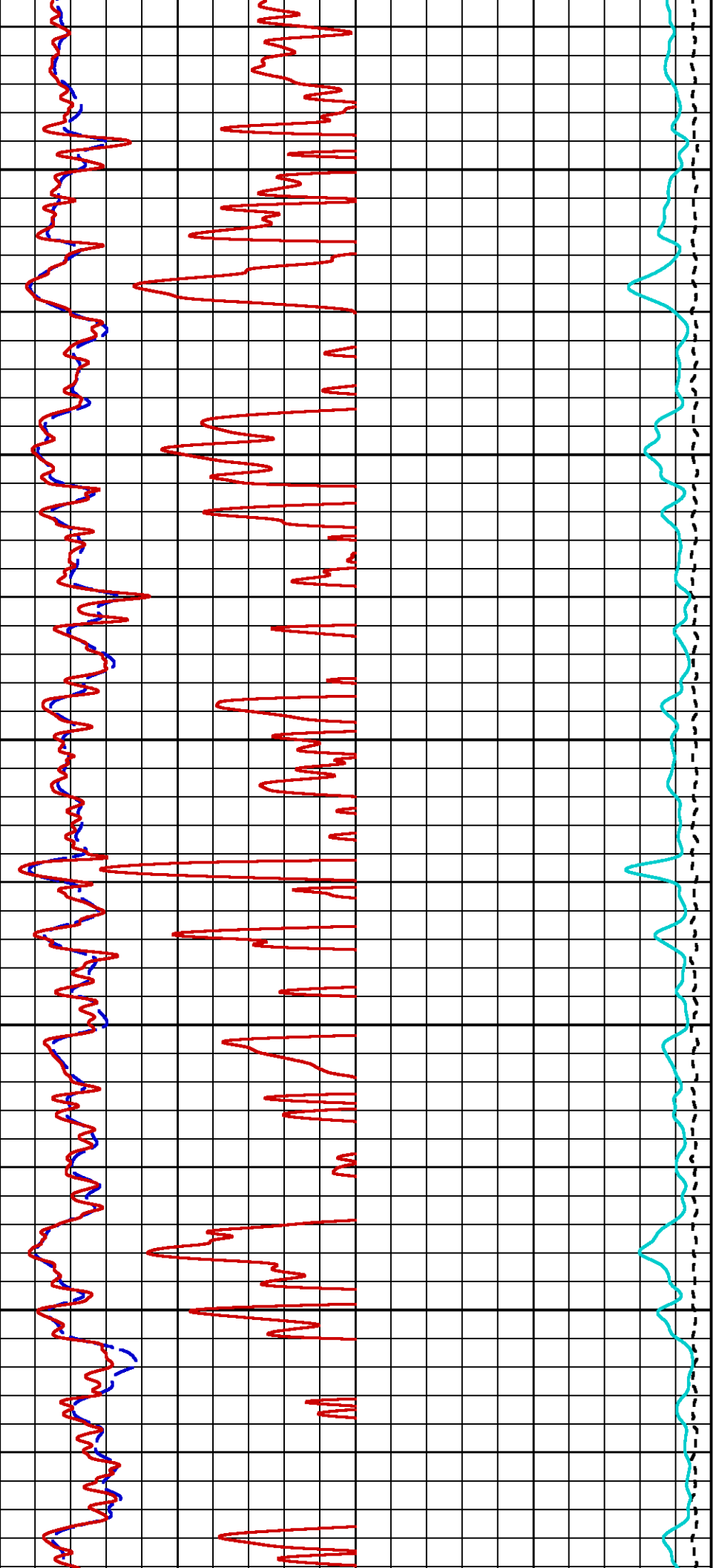
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10600









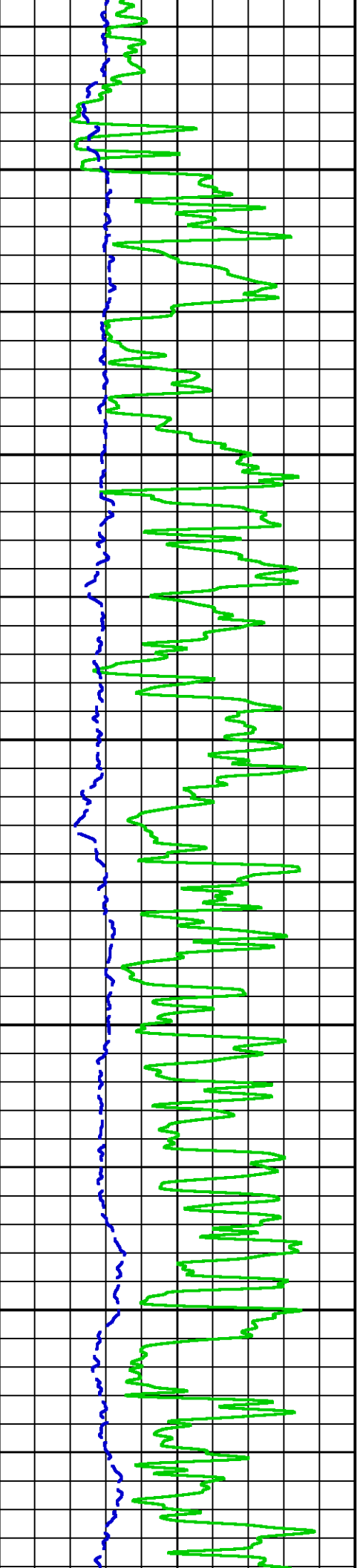
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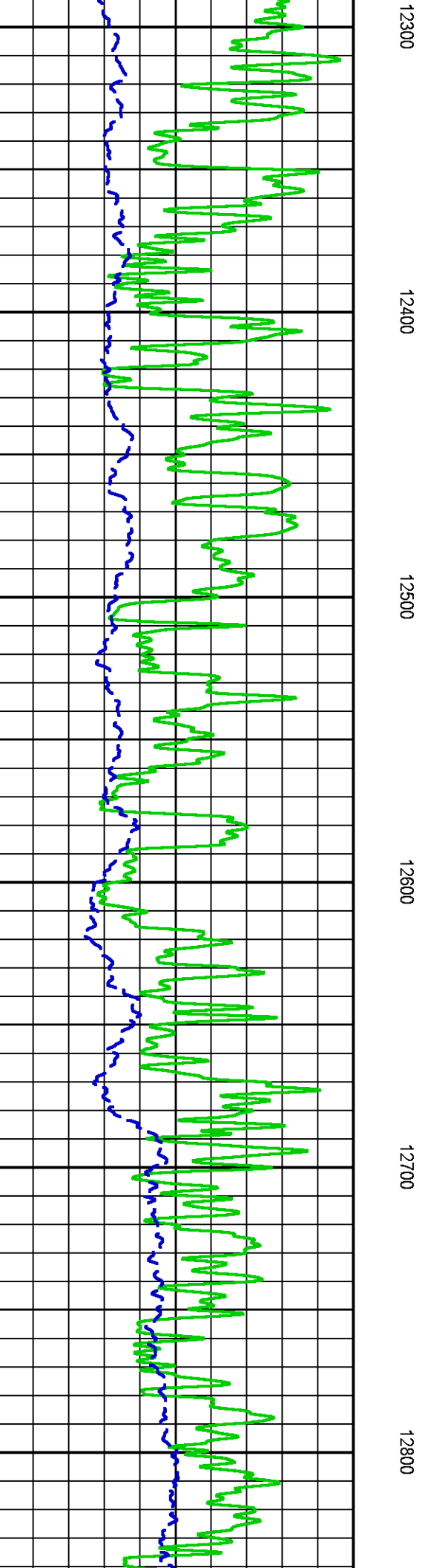
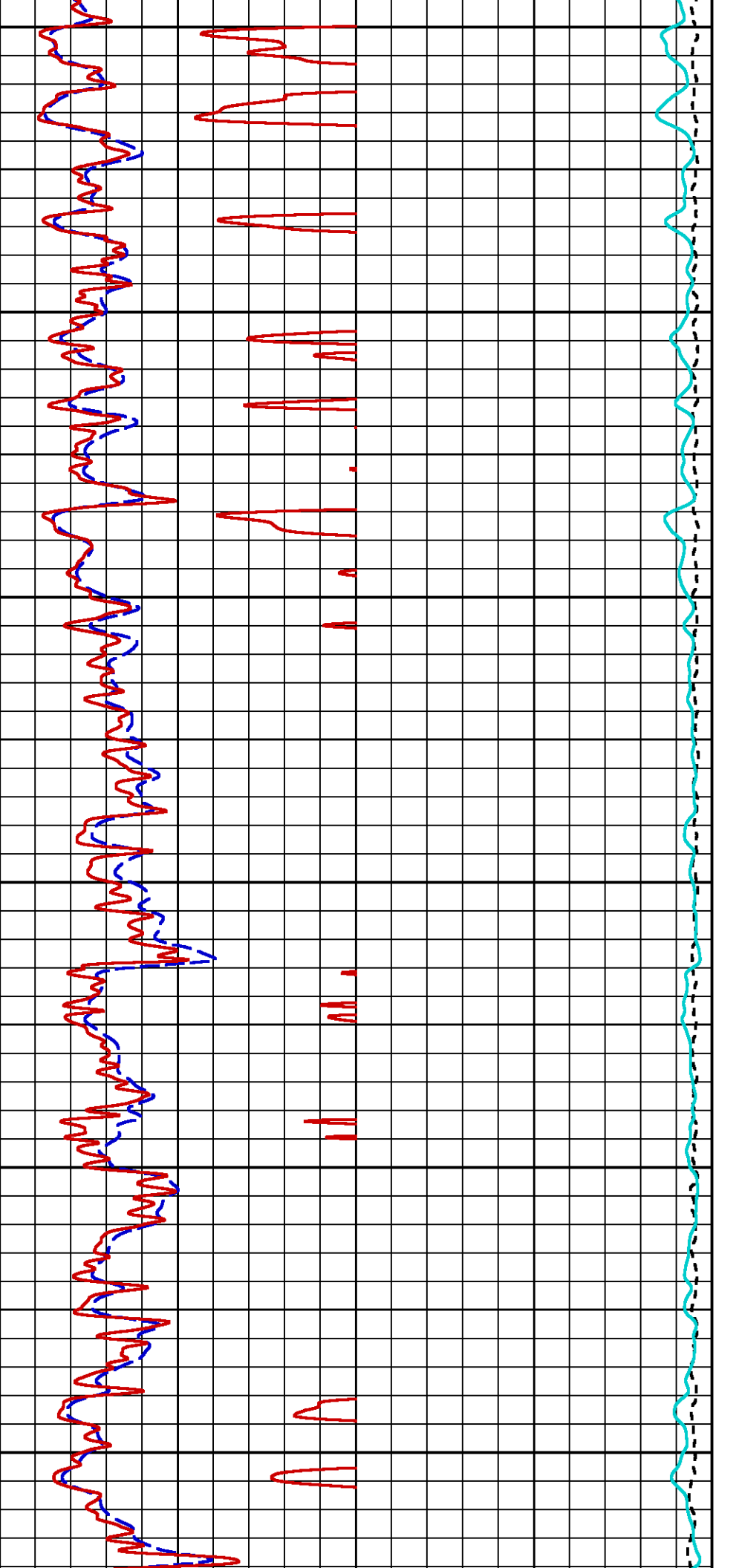
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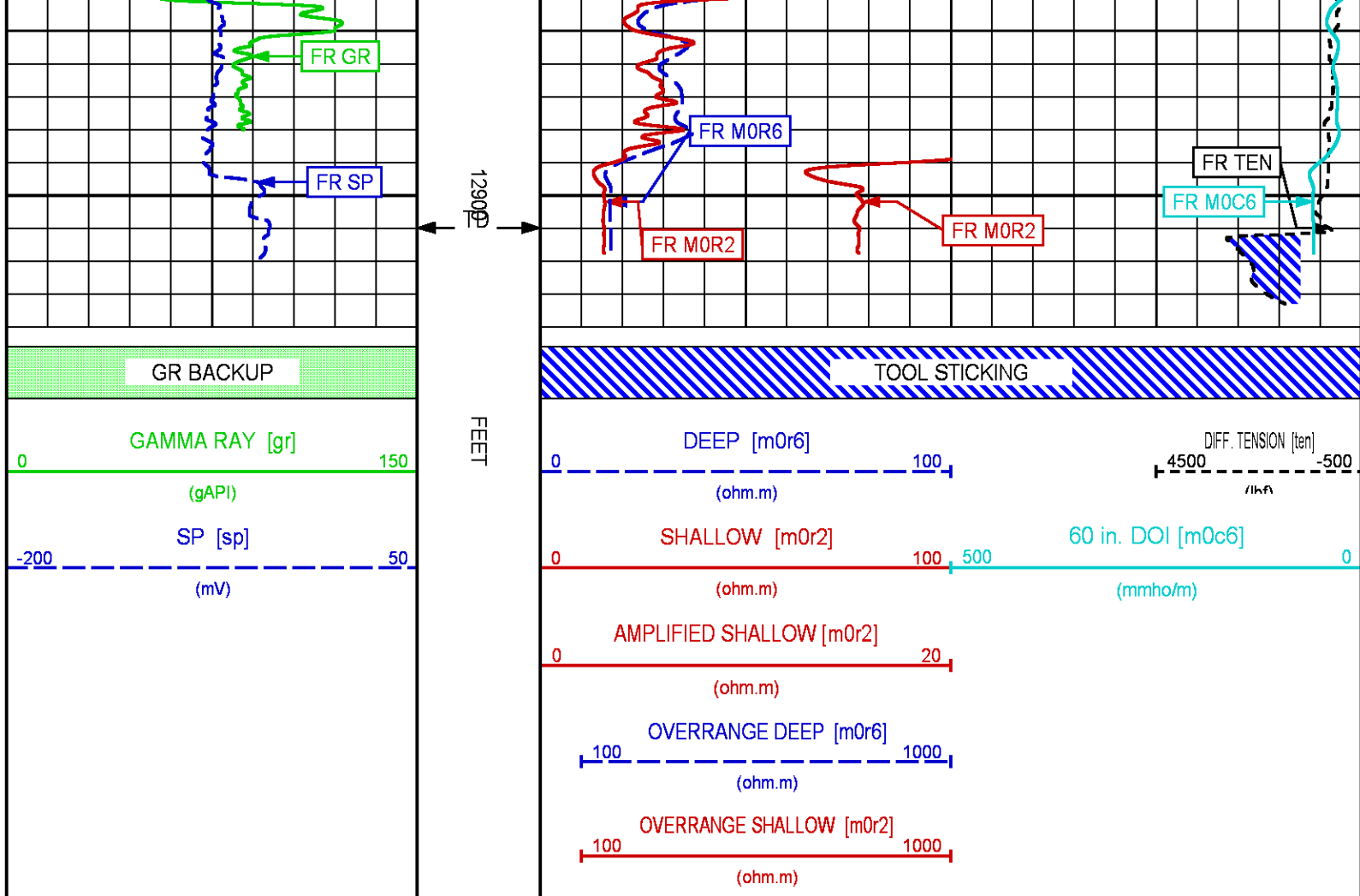
12000

12100

12200







MAIN LOG 5"/100FT SCALE

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

Plotted: Fri Jun 6 11:51:42 2014

PARAMETER AND FILTER SUMMARY REPORT

File: /dat1a/WPX_RGU_323_24_198/n777q03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 75.669 ft BOTTOM DEPTH: 12938.858 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
TTRM	FILTER ()	medium (1)		TOP	BOTTOM
	FILTER (.h)	medium (1)		"	"
	FILTER (.i)	medium (1)		"	"
Y AXIS CALIPER	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
CN	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"

ZDL MED RES	FILTER (.i)	medium (1)	"	"
	FILTER (hrd1*)	medium	"	"
	FILTER (hrd1s*)	medium	"	"
	FILTER (hrd2*)	medium	"	"
	FILTER (hrd2s*)	medium	"	"
ZDL HIGH RES	FILTER (soft*)	medium	"	"
	FILTER (hrd1*)	light	"	"
	FILTER (hrd1s*)	light	"	"
	FILTER (hrd2*)	light	"	"
SP-SPDH	FILTER (hrd2s*)	light	"	"
	FILTER ()	medium (1)	"	"

BOREHOLE & CEMENT					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	4.500	in	TOP	BOTTOM
	CASING THICKNESS	0.000	in	"	"
BIT SIZE	BIT SIZE	8.750	in	TOP	10571.712
		7.875	in	10571.712	BOTTOM
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	133.0	degF	TOP	BOTTOM
	MUD SAMPLE RES	0.630	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	77.0	degF	"	"
	at BH REF DEPTH	0.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"
MUD DENSITY	MUD DENSITY	9.70	lbm/gal	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		"	"
	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
	CALIPER/FIXED DIA. (zdbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	8.750	in	TOP	10557.786
		7.875	in	10557.786	BOTTOM
	FIXED DIAMETER (mbh*)	8.750	in	TOP	10595.536
		7.875	in	10595.536	BOTTOM
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		TOP	BOTTOM

CN PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
2446 CN MATRIX	2446 MATRIX	SANDSTONE		TOP	BOTTOM
CN SALINITY CORRECTION	SALINITY	1600	ppm	"	"
CN TOOL STANDOFF	ENABLE STANDOFF CORR	OFF		"	"
	STANDOFF AMOUNT	0.00	in	"	"
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE BEHIND CSNG	7.875	in	"	"

ZDL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
DENSITY POROSITY	RHOmatrix	2.680	g/cm3	TOP	BOTTOM
	RHOfluid	1.000	g/cm3	"	"
ZDL	DENX TRACKING	ON		"	"

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

CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Jun 6 06:07:48 2014	BIT SIZE
F1:BVOL	Jun 6 06:07:48 2014	BOREHOLE VOLUME
F1:CALX	Jun 6 06:07:48 2014	CALIPER FROM X-AXIS OF XY CALIPER(S)
F1:CNCF	Jun 6 06:07:48 2014	FIELD NORMALIZED COMPENSATED NEUTRON POROSITY
F1:CVOL	Jun 6 06:07:48 2014	CEMENT VOLUME
F1:GR	Jun 6 06:07:48 2014	GAMMA RAY
F1:M2R2	Jun 6 06:07:48 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 20-INCH DOI
F1:M2R6	Jun 6 06:07:48 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R8	Jun 6 06:07:48 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 80-INCH DOI

F1:M2R9 Jun 6 06:07:48 2014
F1:PE Jun 6 06:07:48 2014
F1:PORZ Jun 6 06:07:48 2014
F1:SP Jun 6 06:07:48 2014
F1:TEN Jun 6 06:07:48 2014
F1:ZCOR Jun 6 06:07:48 2014

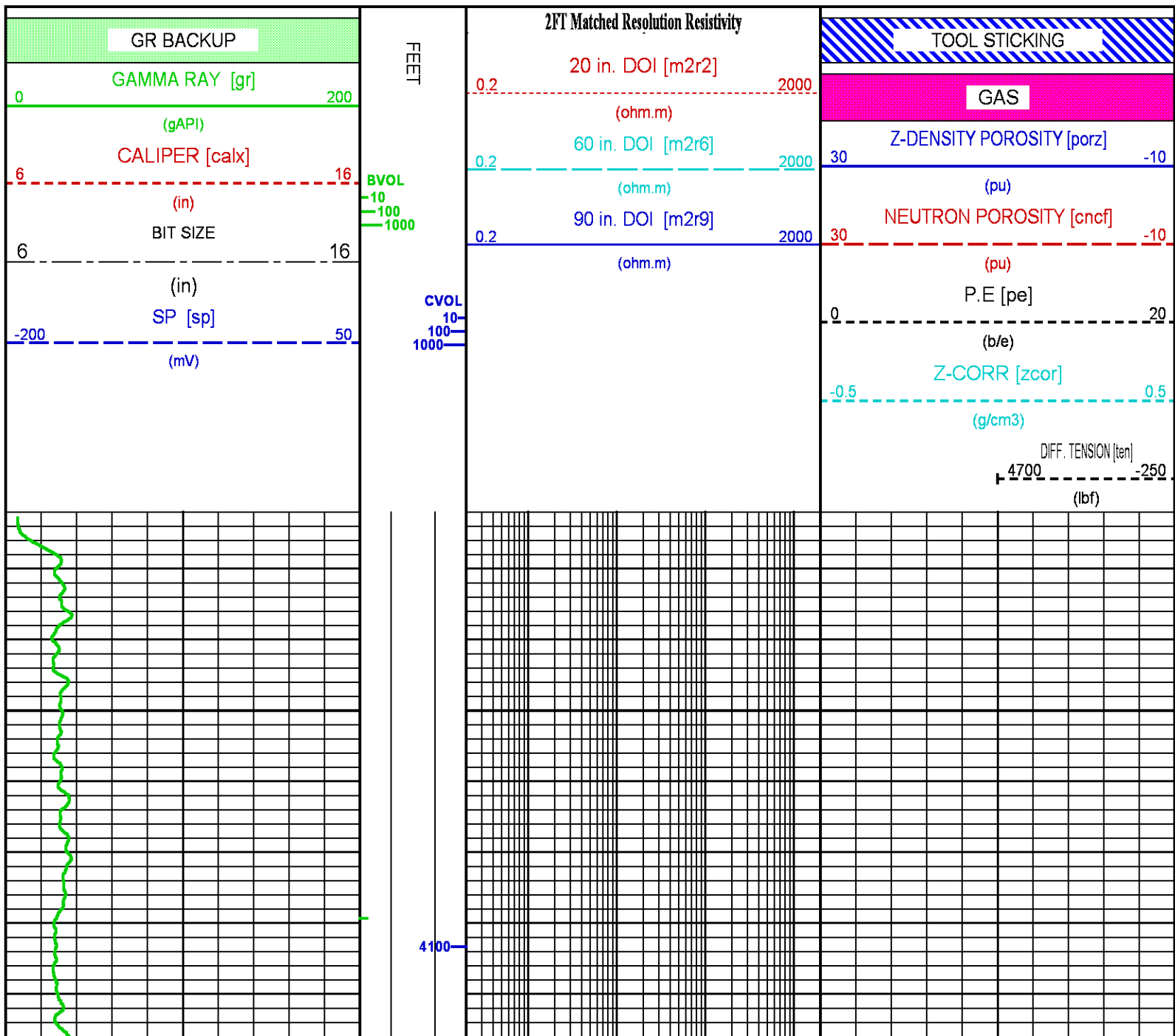
VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
PHOTO ELECTRIC CROSS-SECTION
POROSITY FOR SELECTABLE MATRIX
SPONTANEOUS POTENTIAL
DIFFERENTIAL TENSION
DENSITY CORRECTION

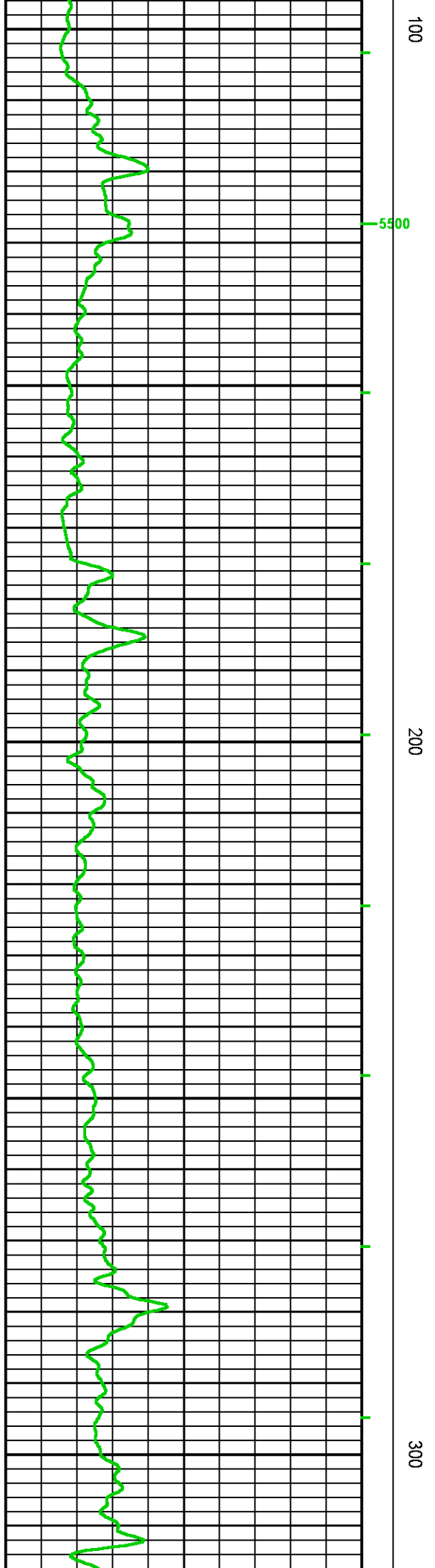
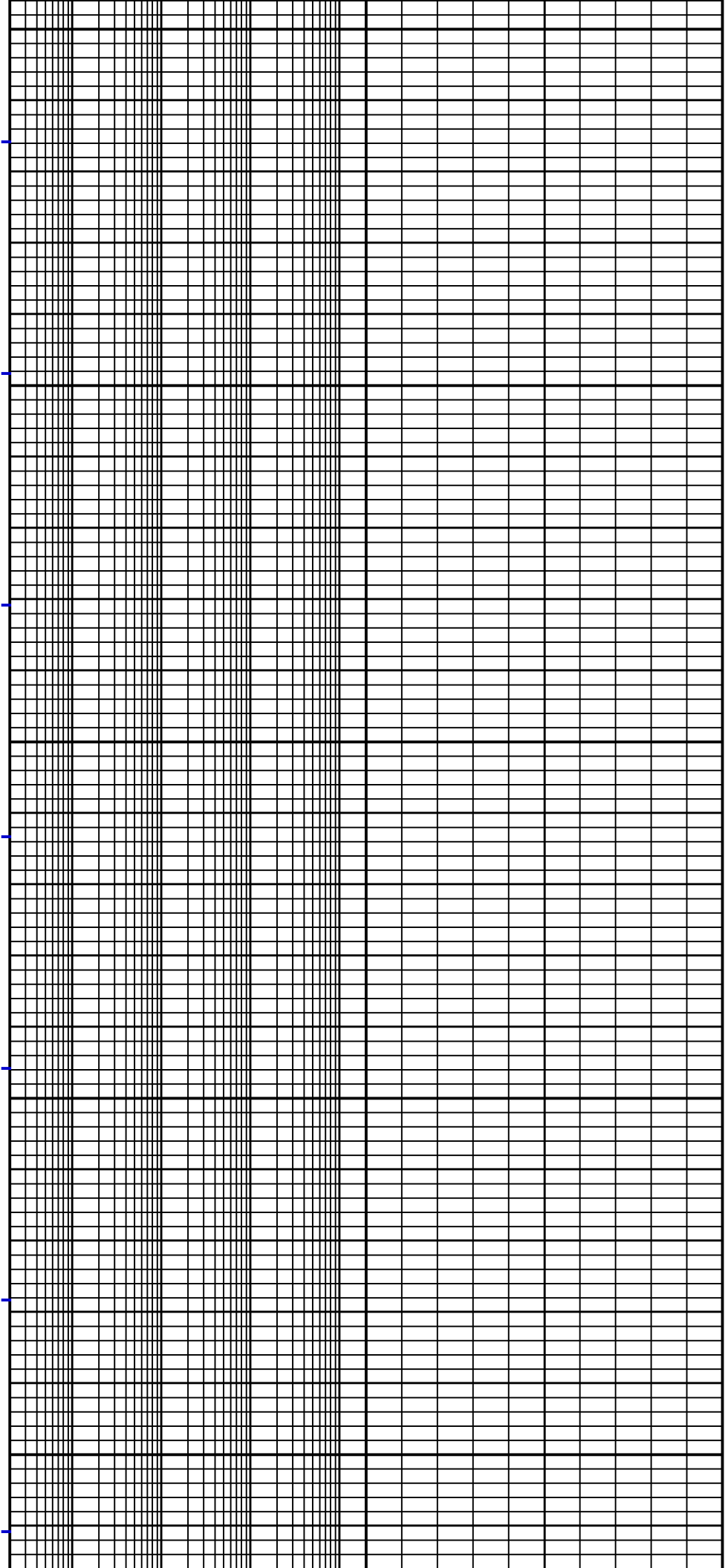
CURVE MEASURE POINT OFFSET

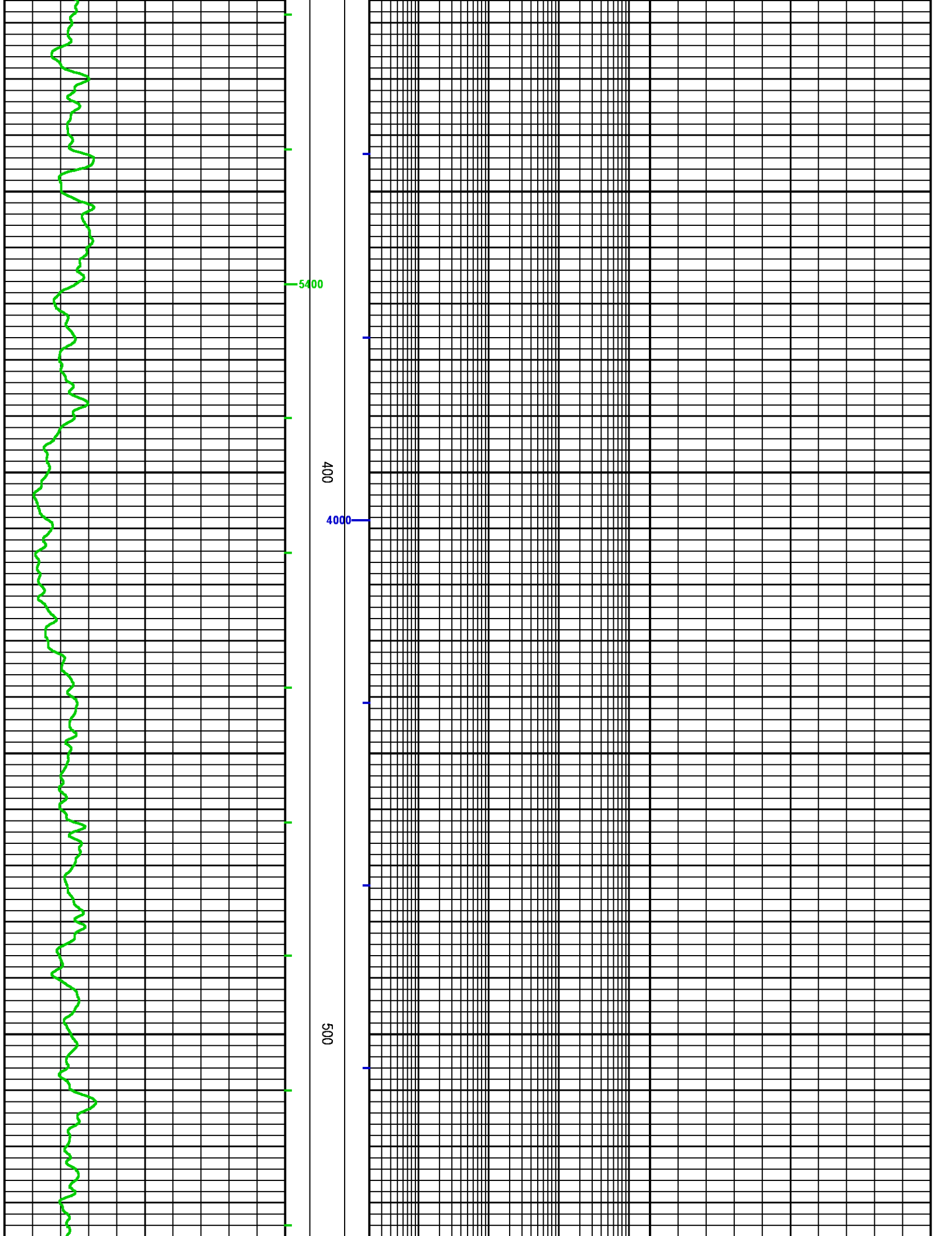
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CALX	35.00	M2R2	8.00	PE	34.25	TEN	0.00
CNCF	45.25	M2R6	8.00	PORZ	34.25	ZCOR	34.25

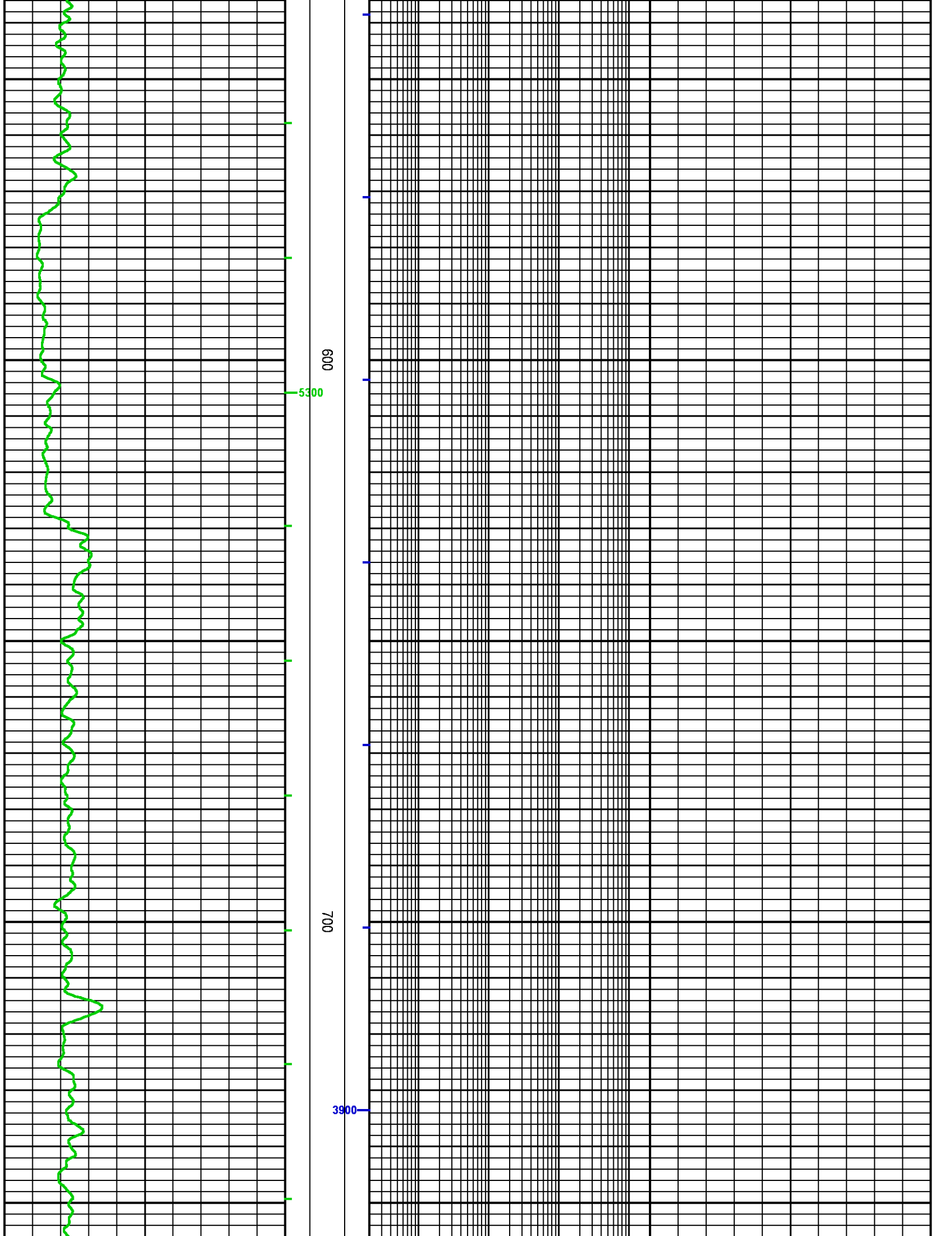
Presentation : cpu6741:/dat1a/WPX_RGU_323_24_198/WPX_main.fvpdf [5"/100' Scale]
Plot Interval : 22.75 - 12934.2 Feet

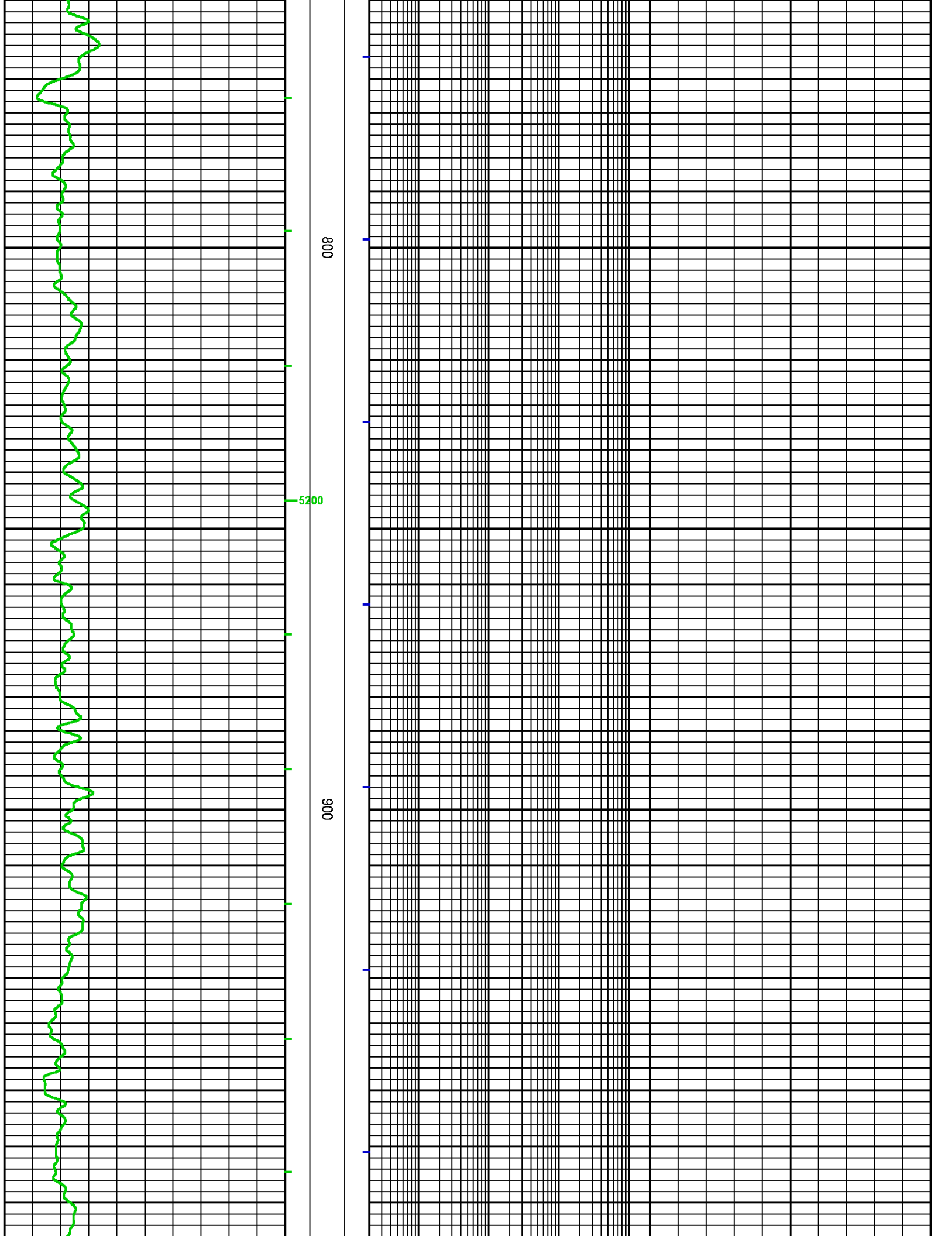
Data File 1 : F1 : cpu6741:/dat1a/WPX_RGU_323_24_198/slam_main.xtf
Created On : Jun 6 06:07:48 2014
Company : WPX ENERGY INC
Well : FEDERAL RGU 323-24-198
Field : SULPHUR CREEK
File Interval : 5 - 20127 Feet
OCT : n777q

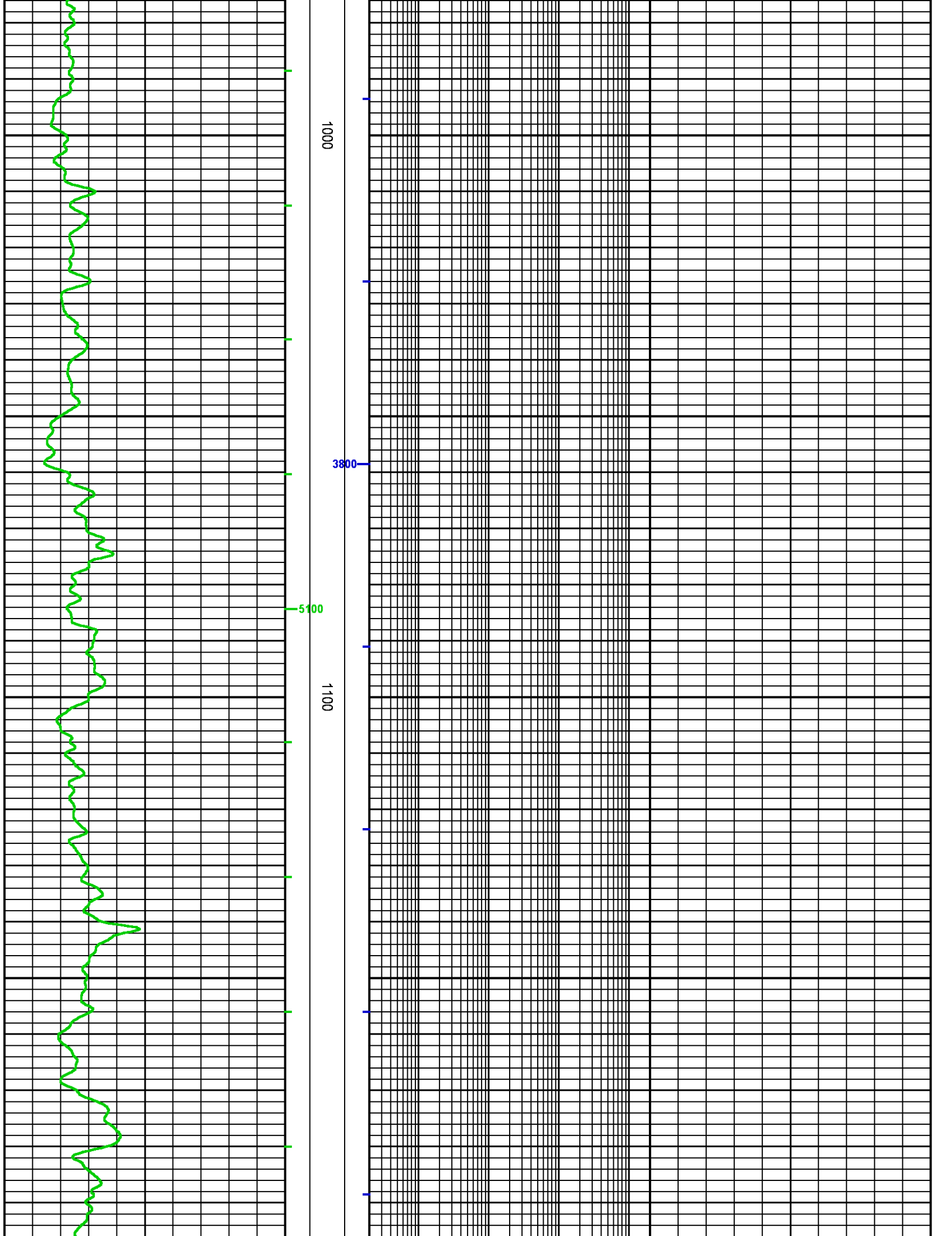


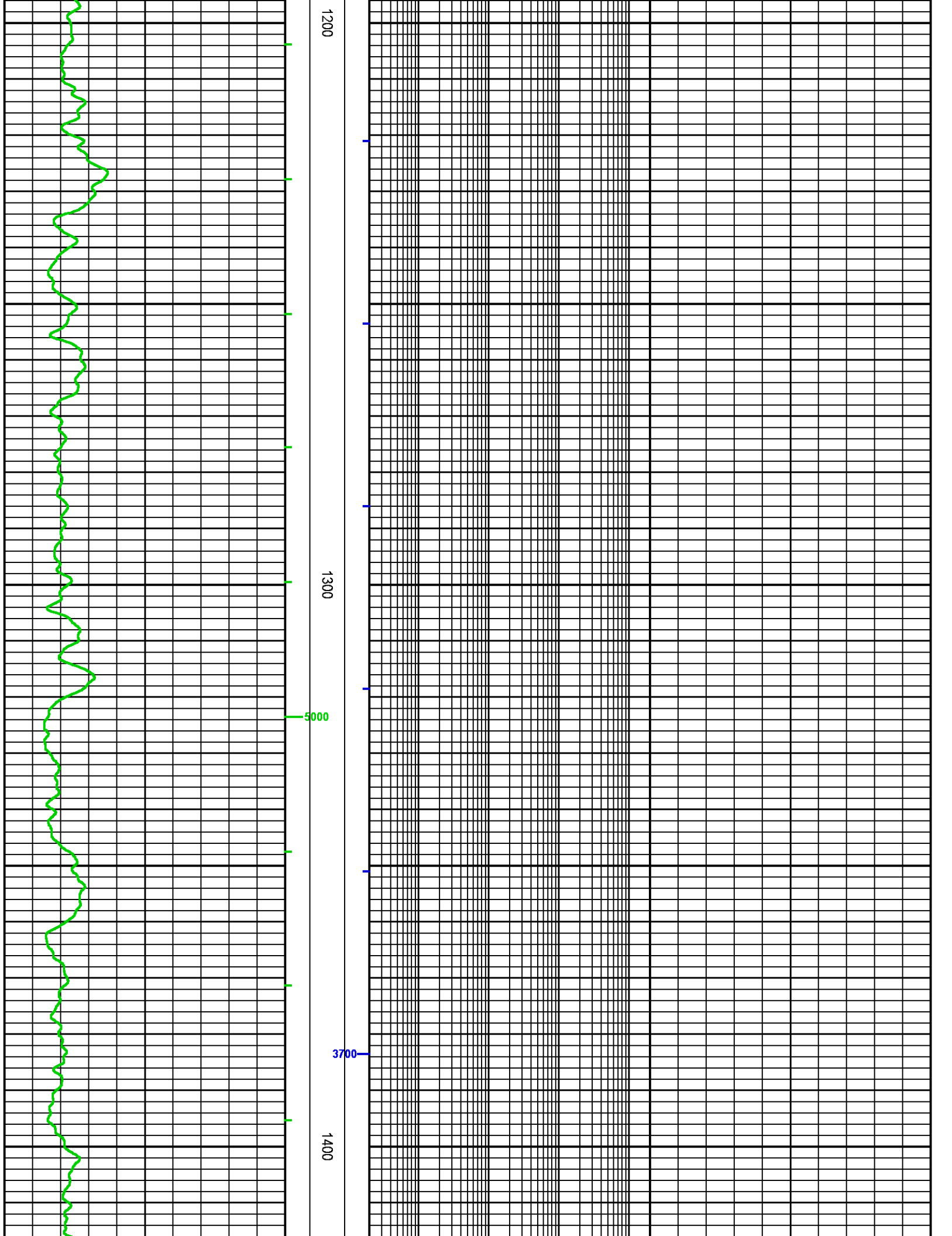


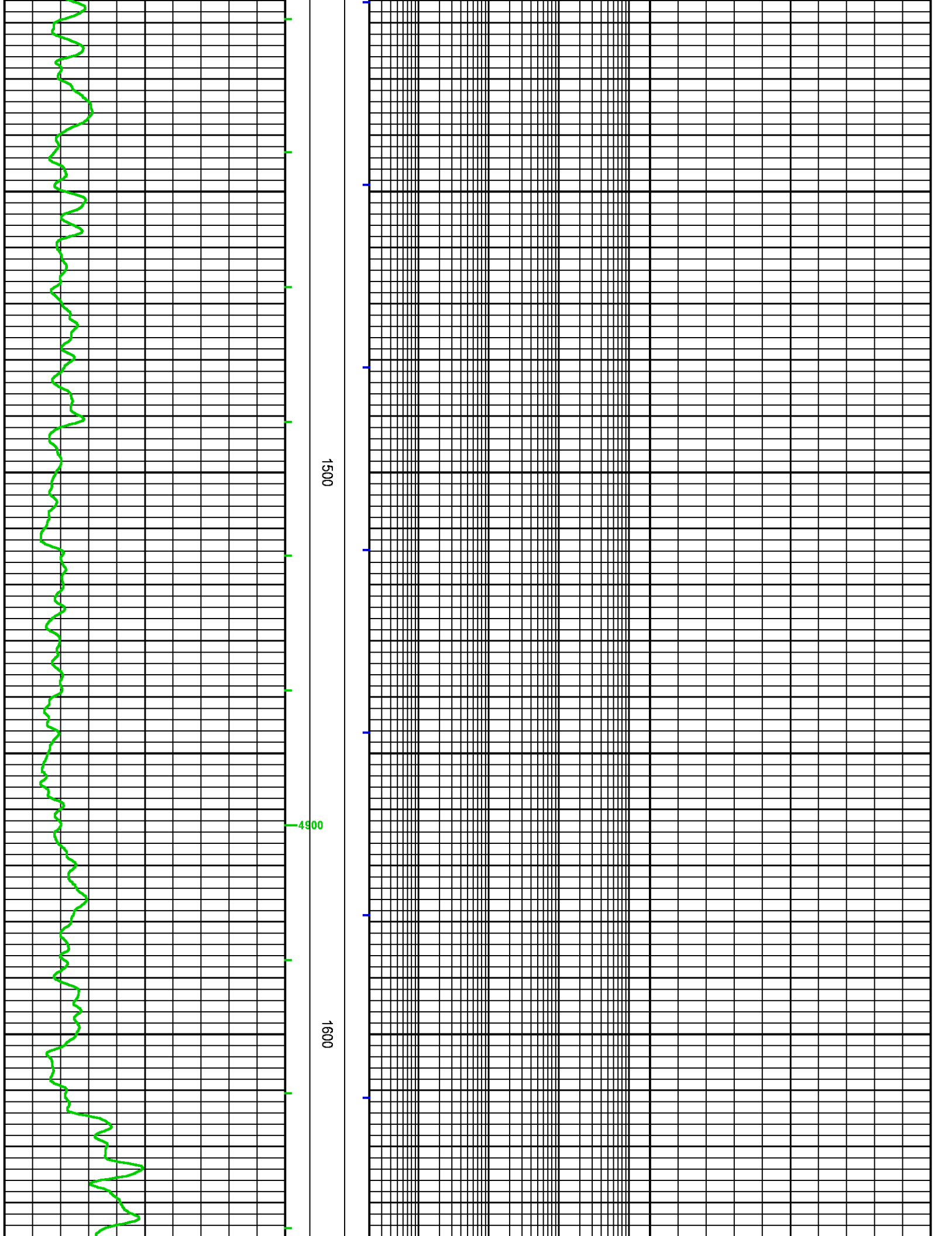


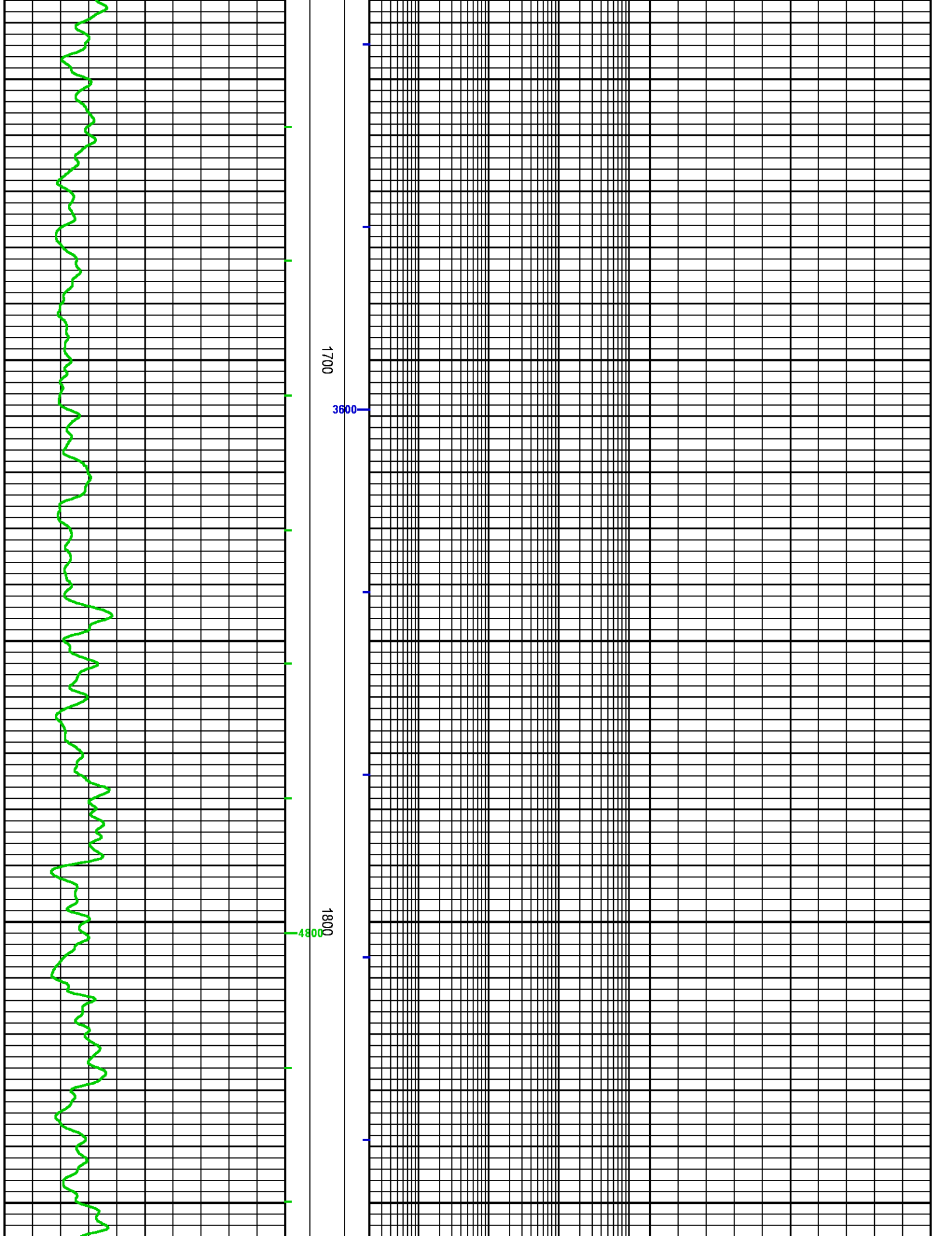


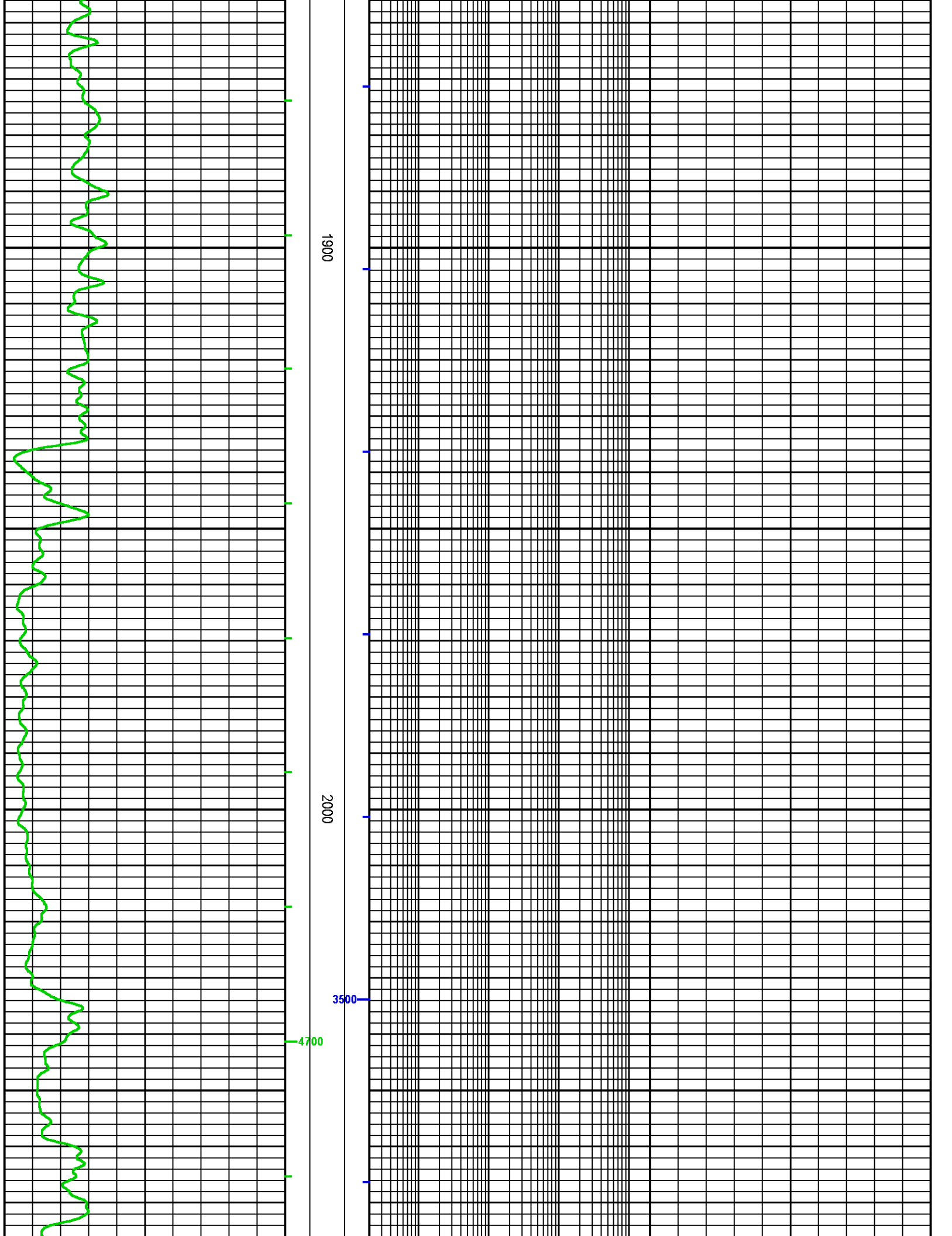


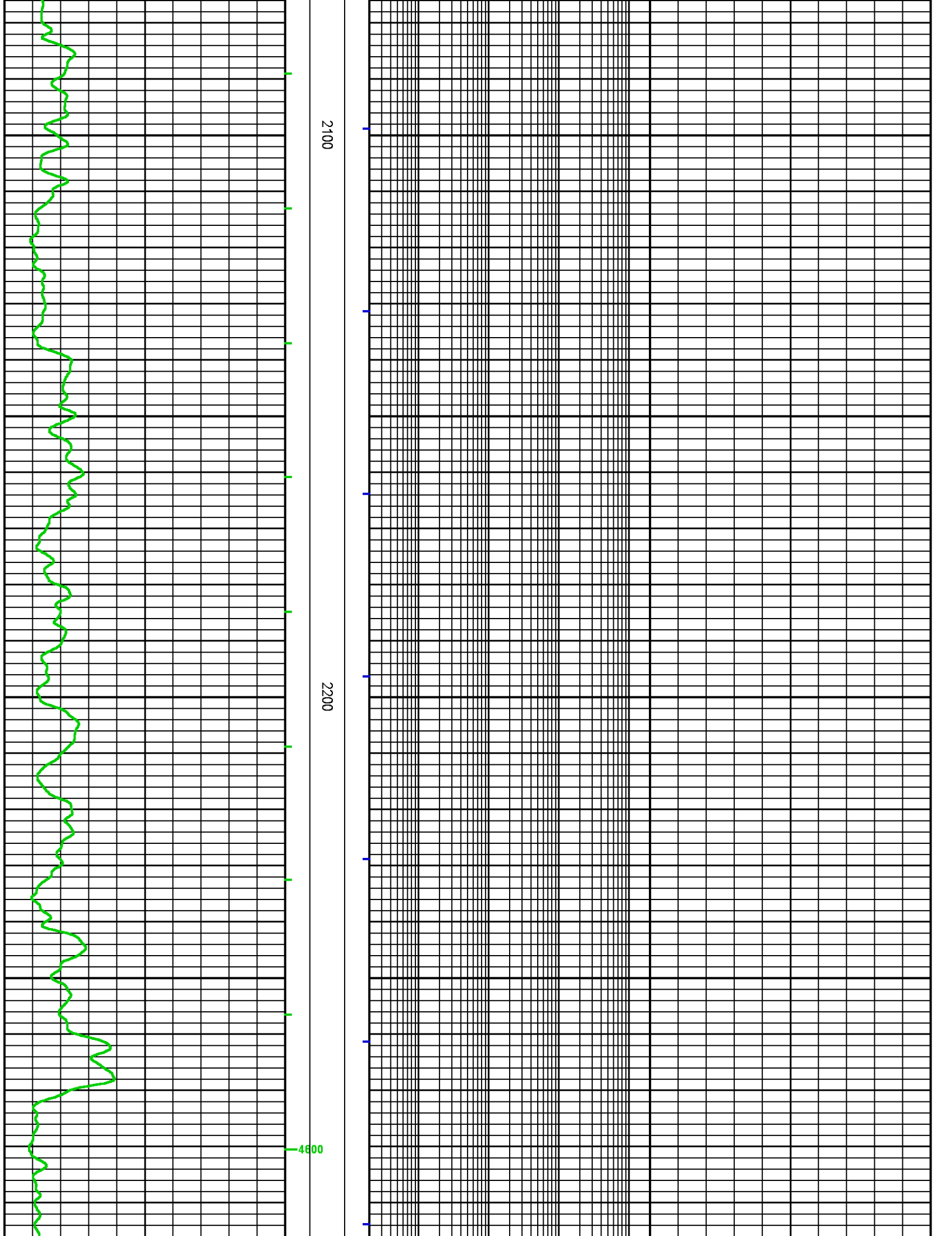


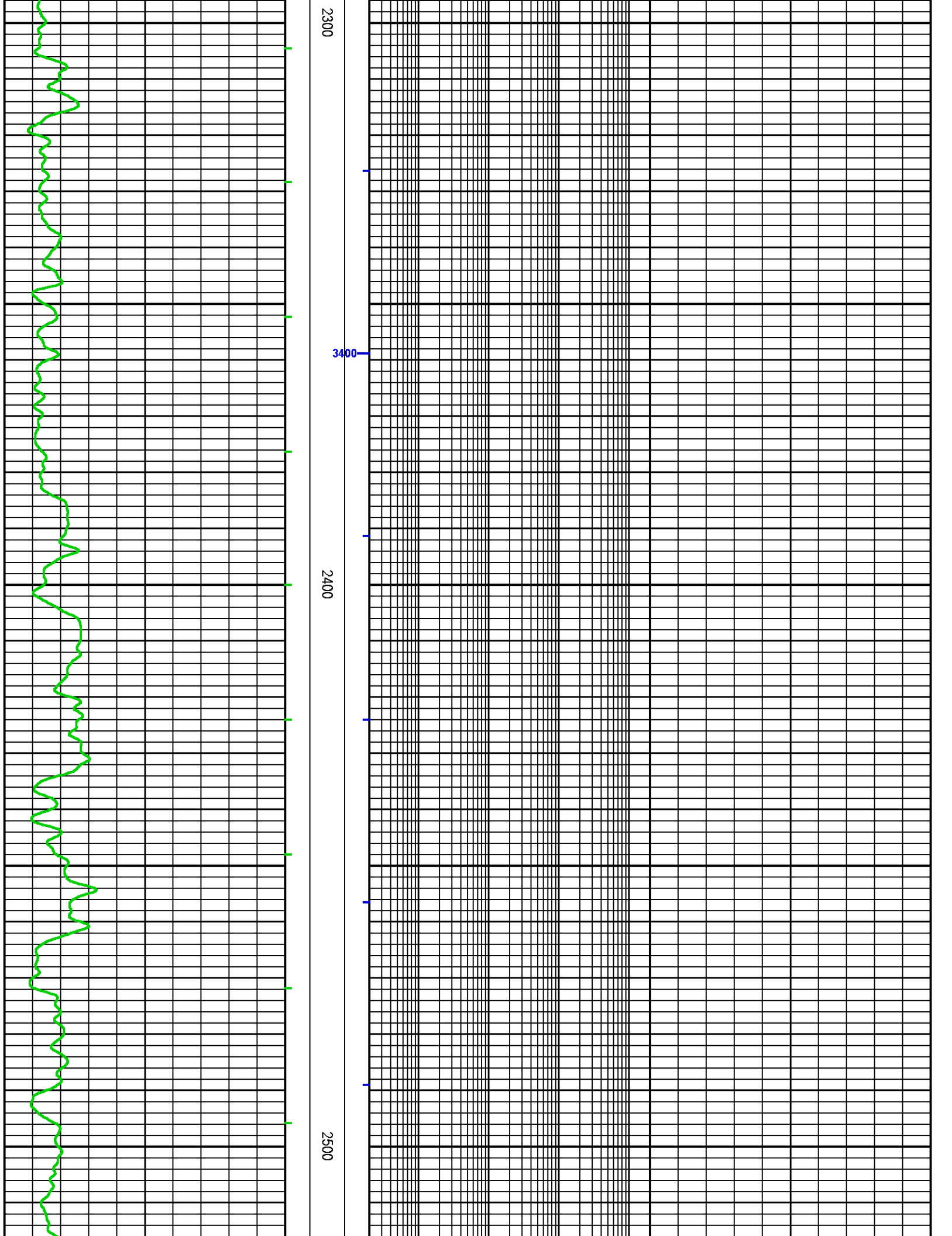


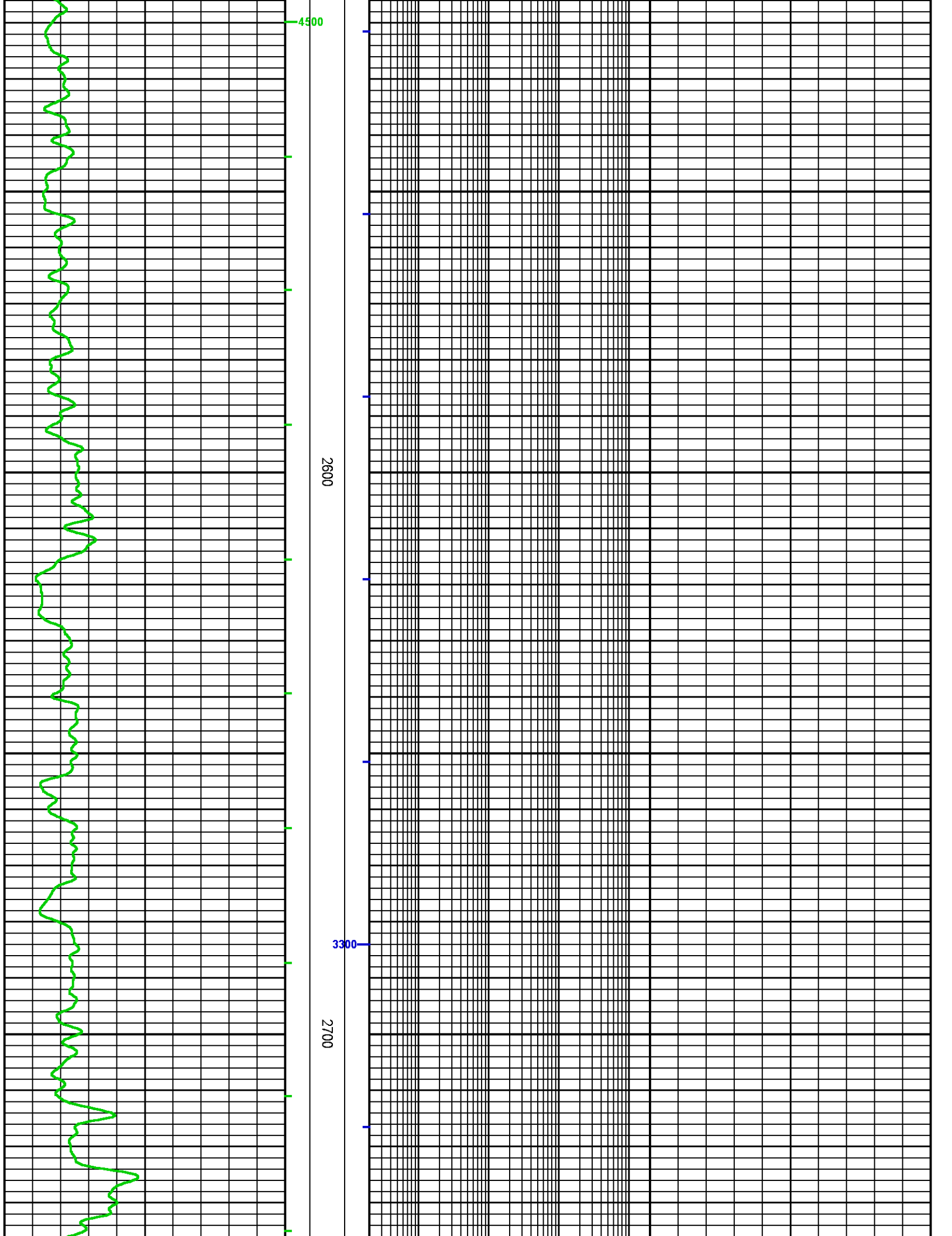


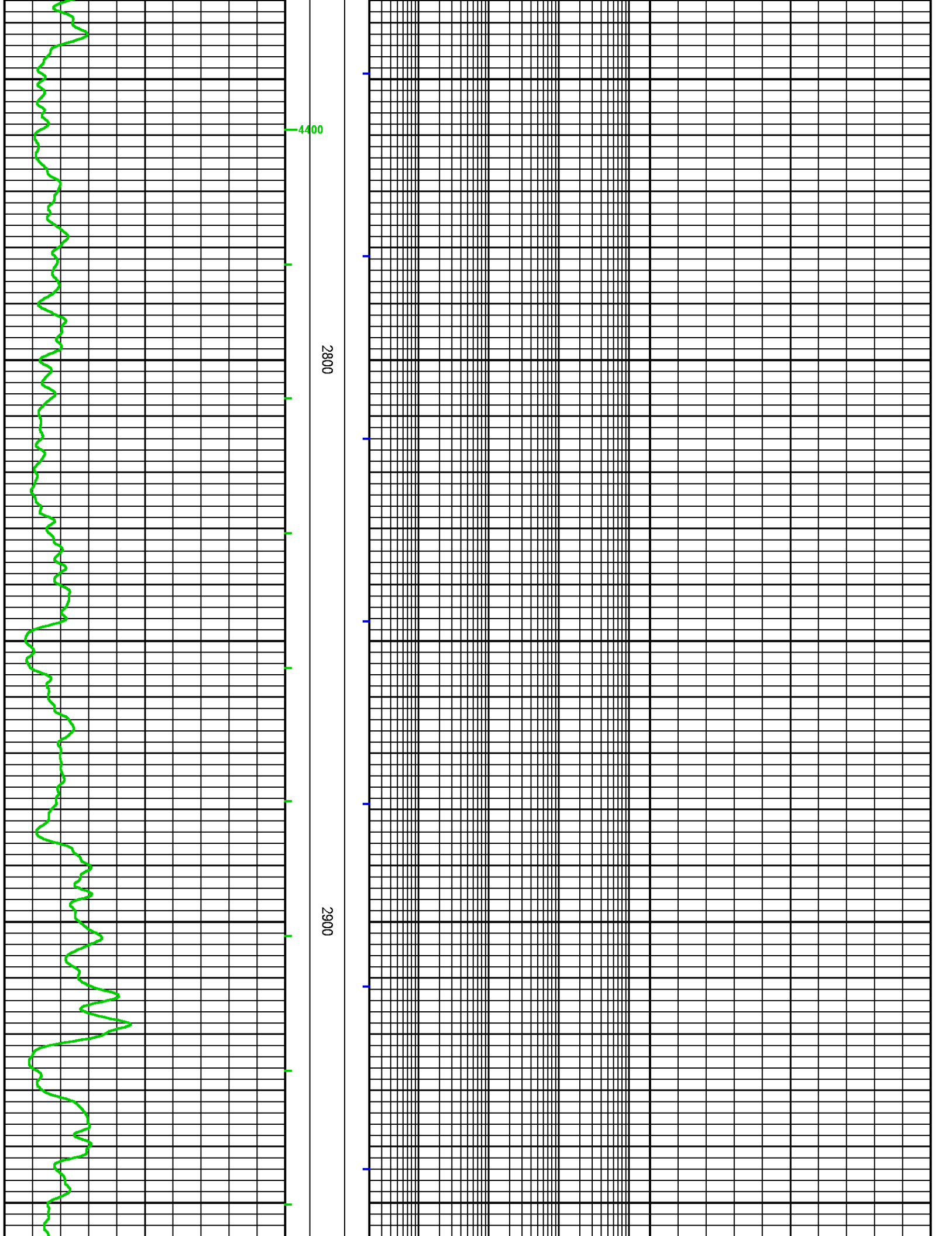


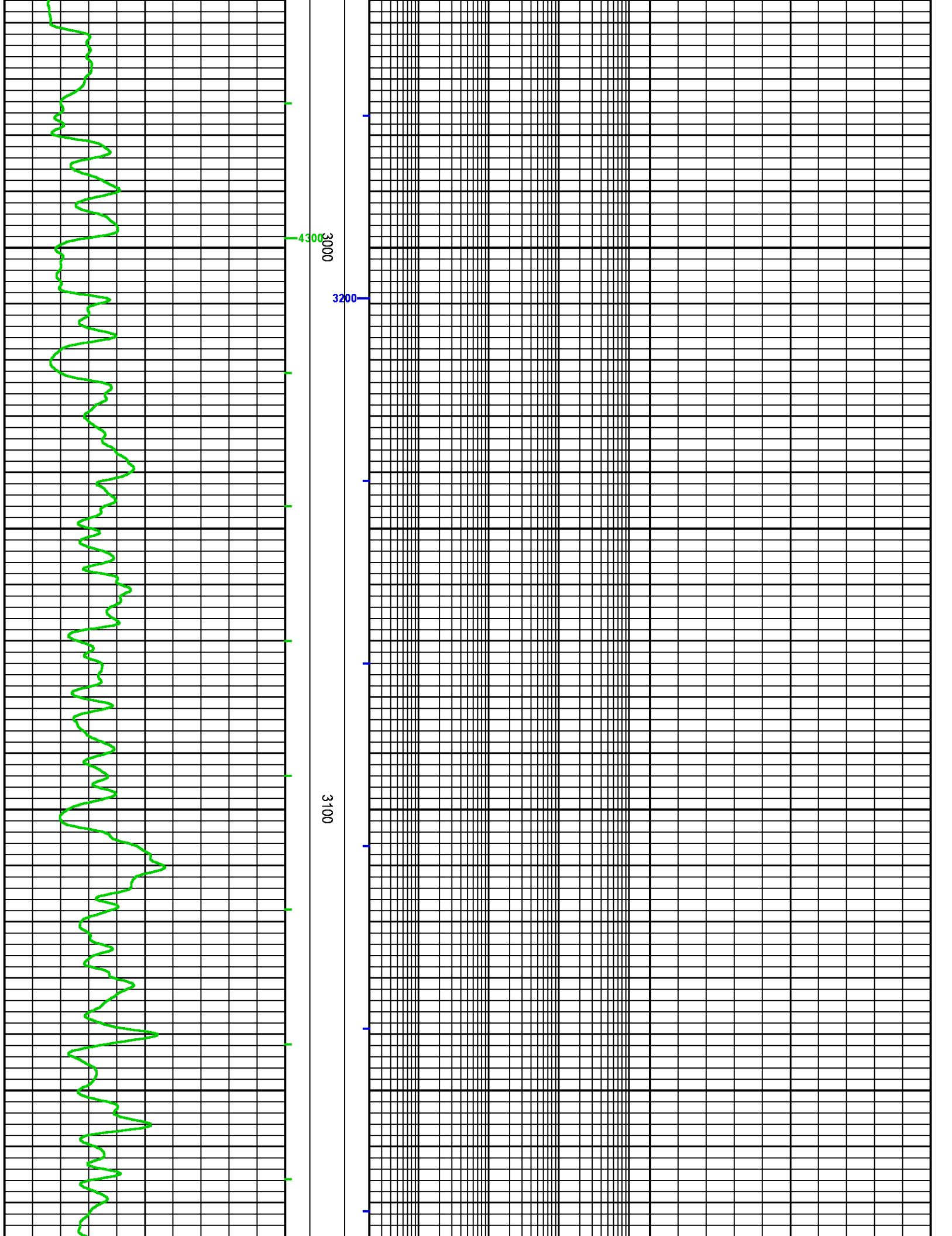


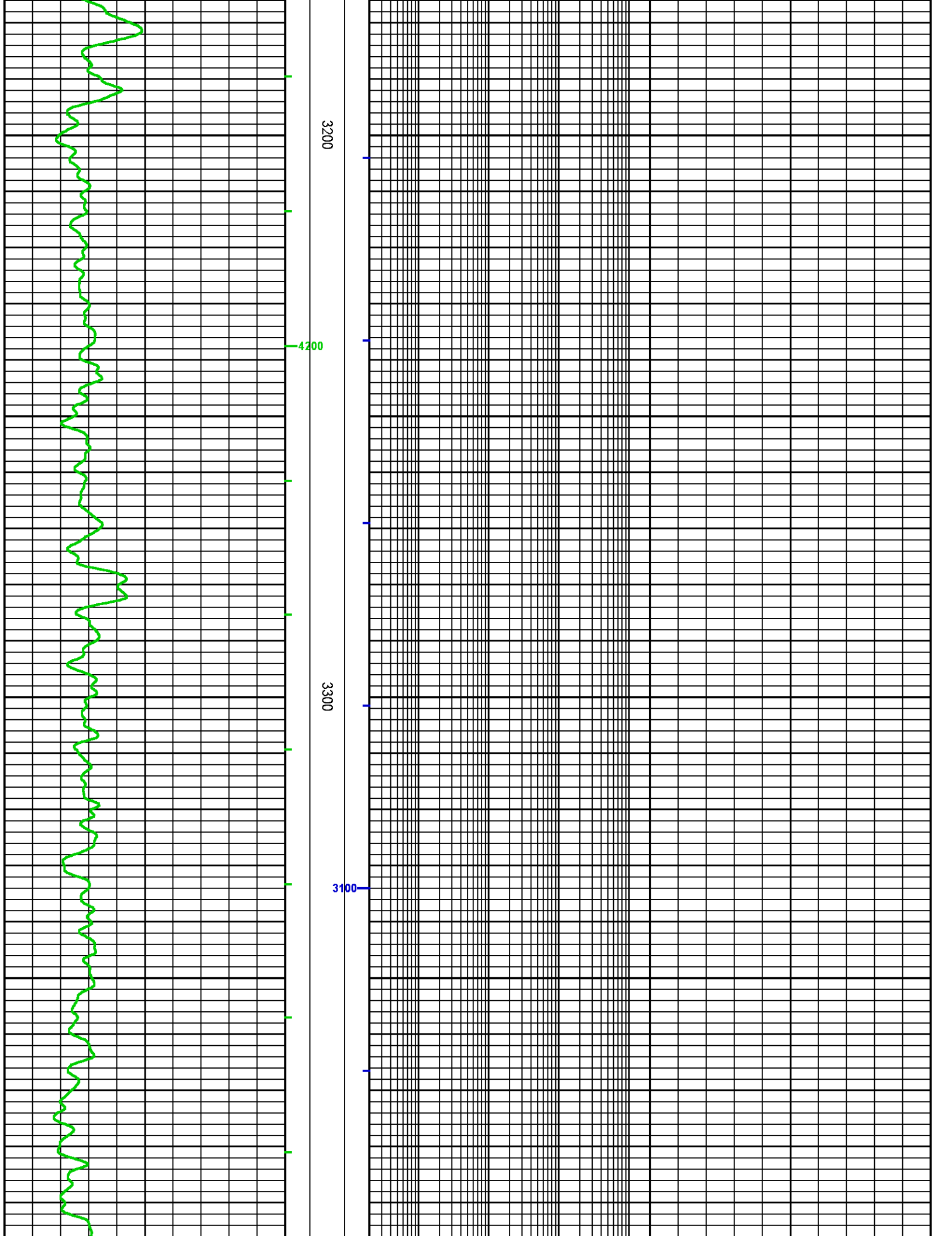


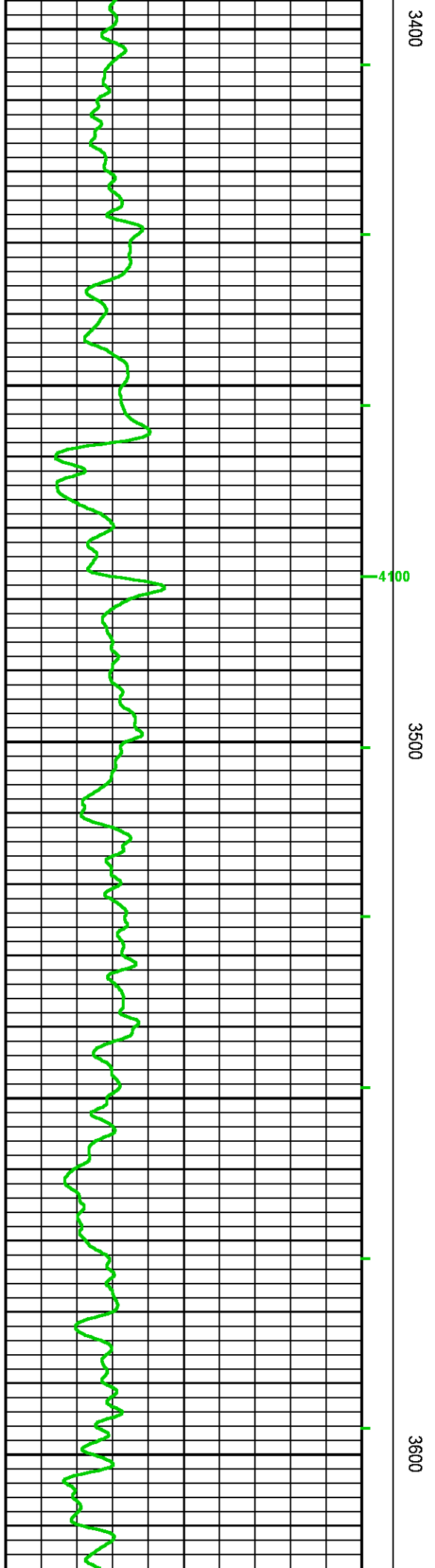
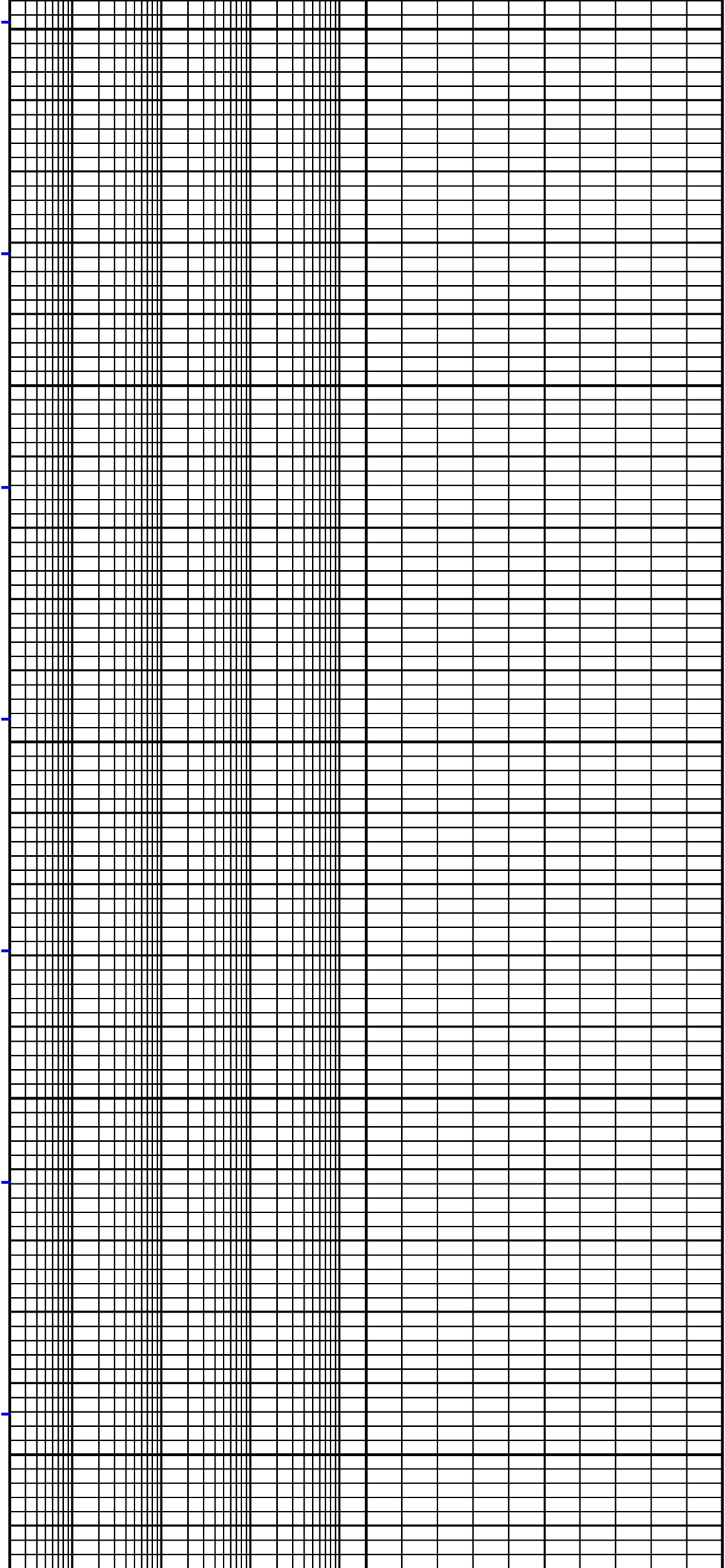


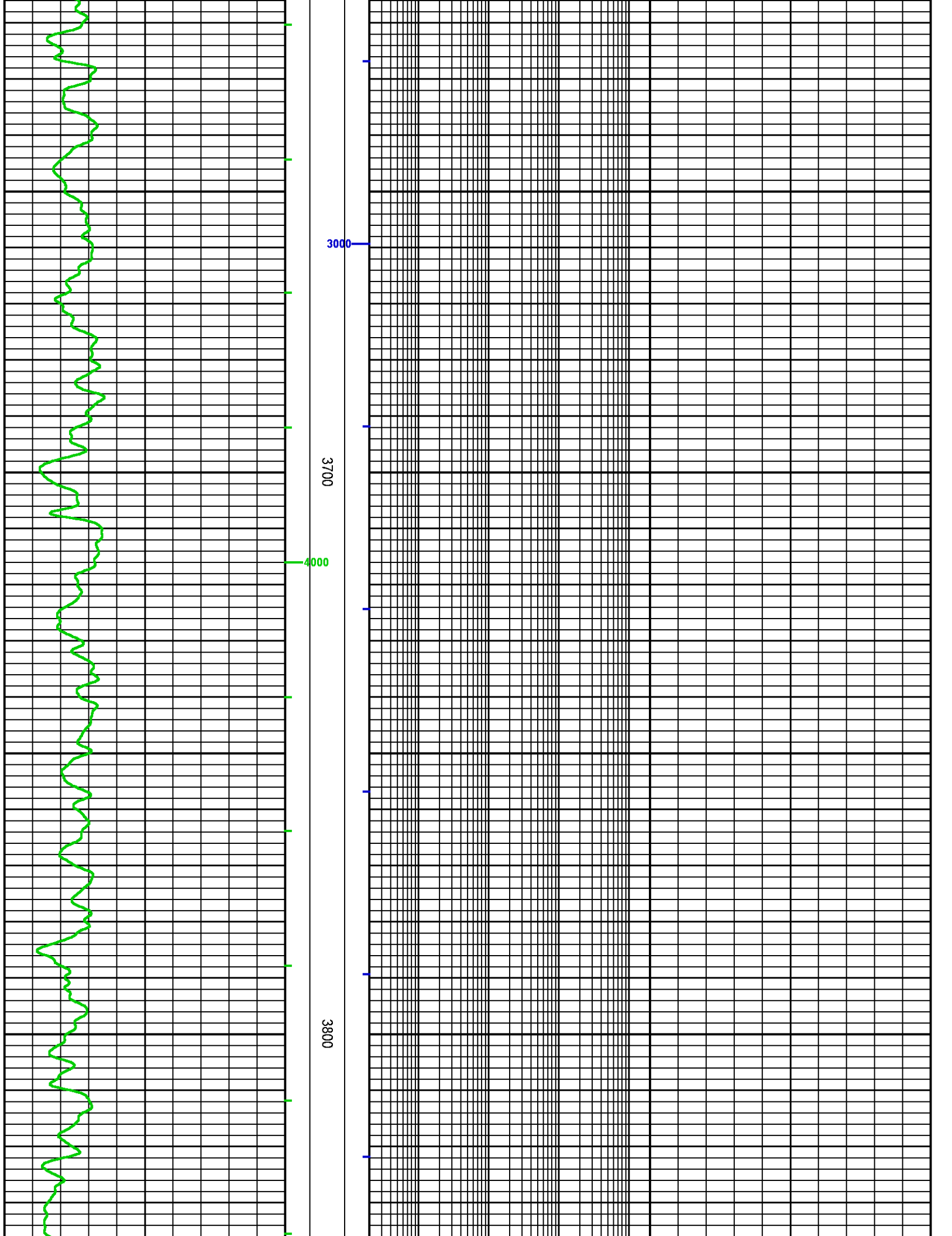


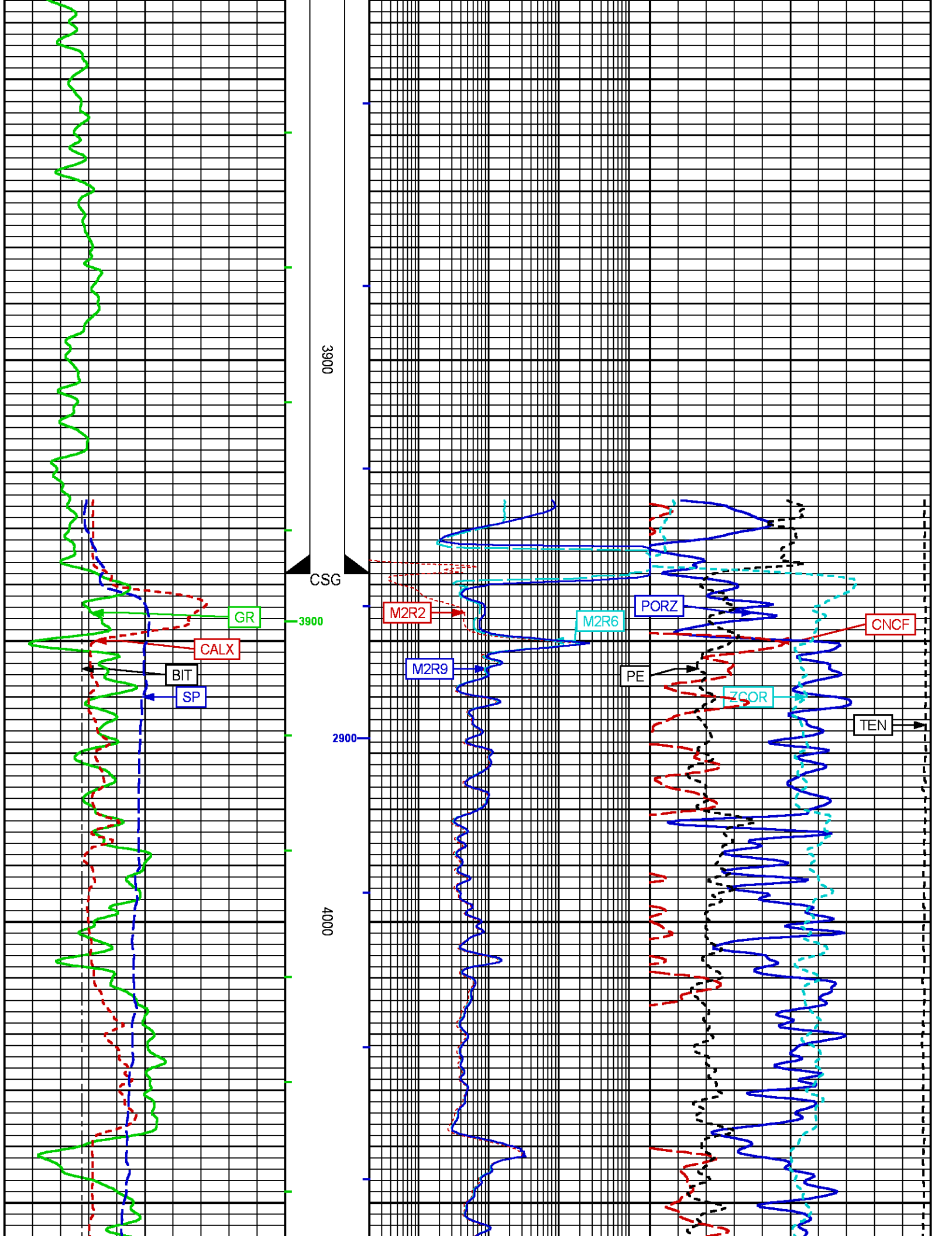


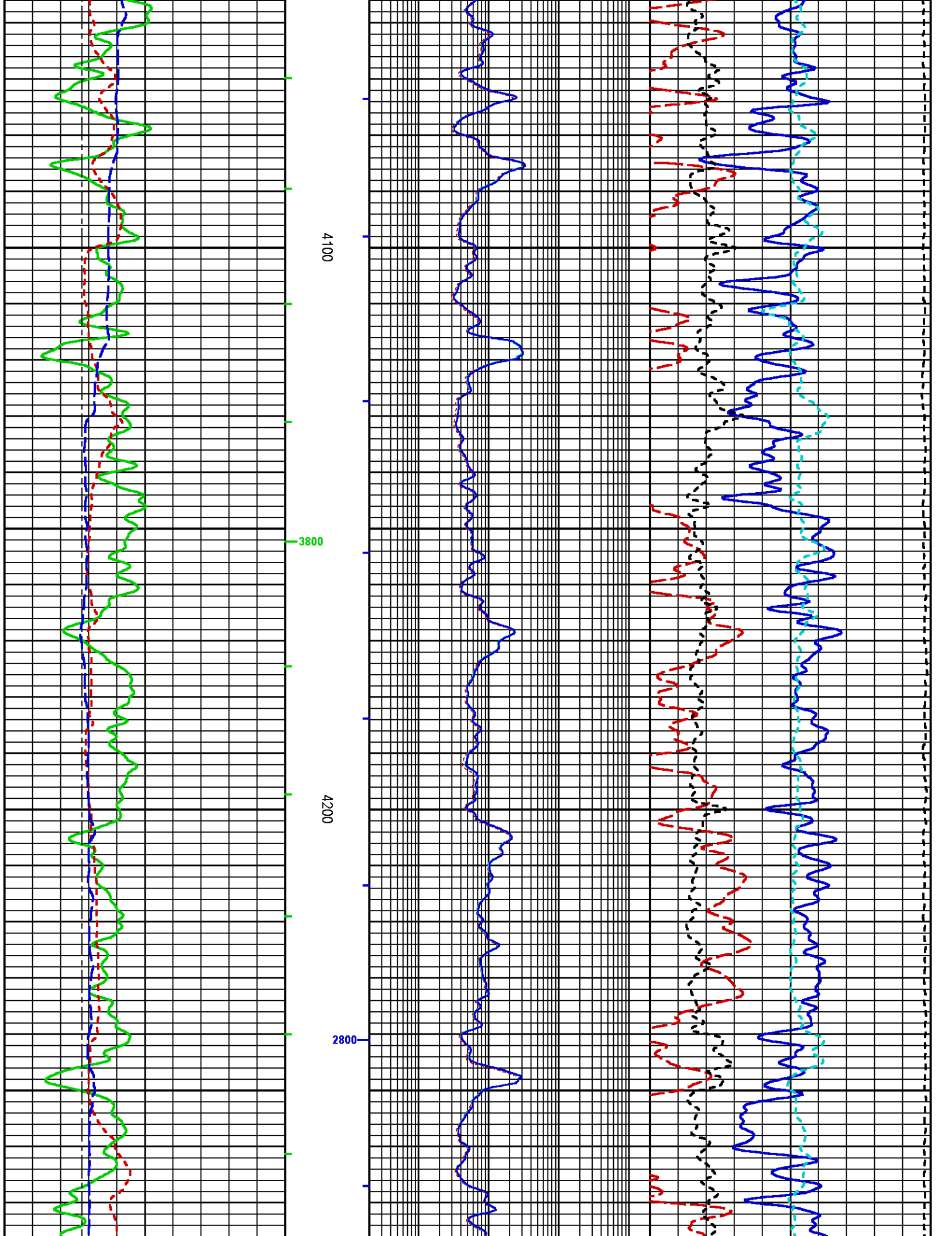


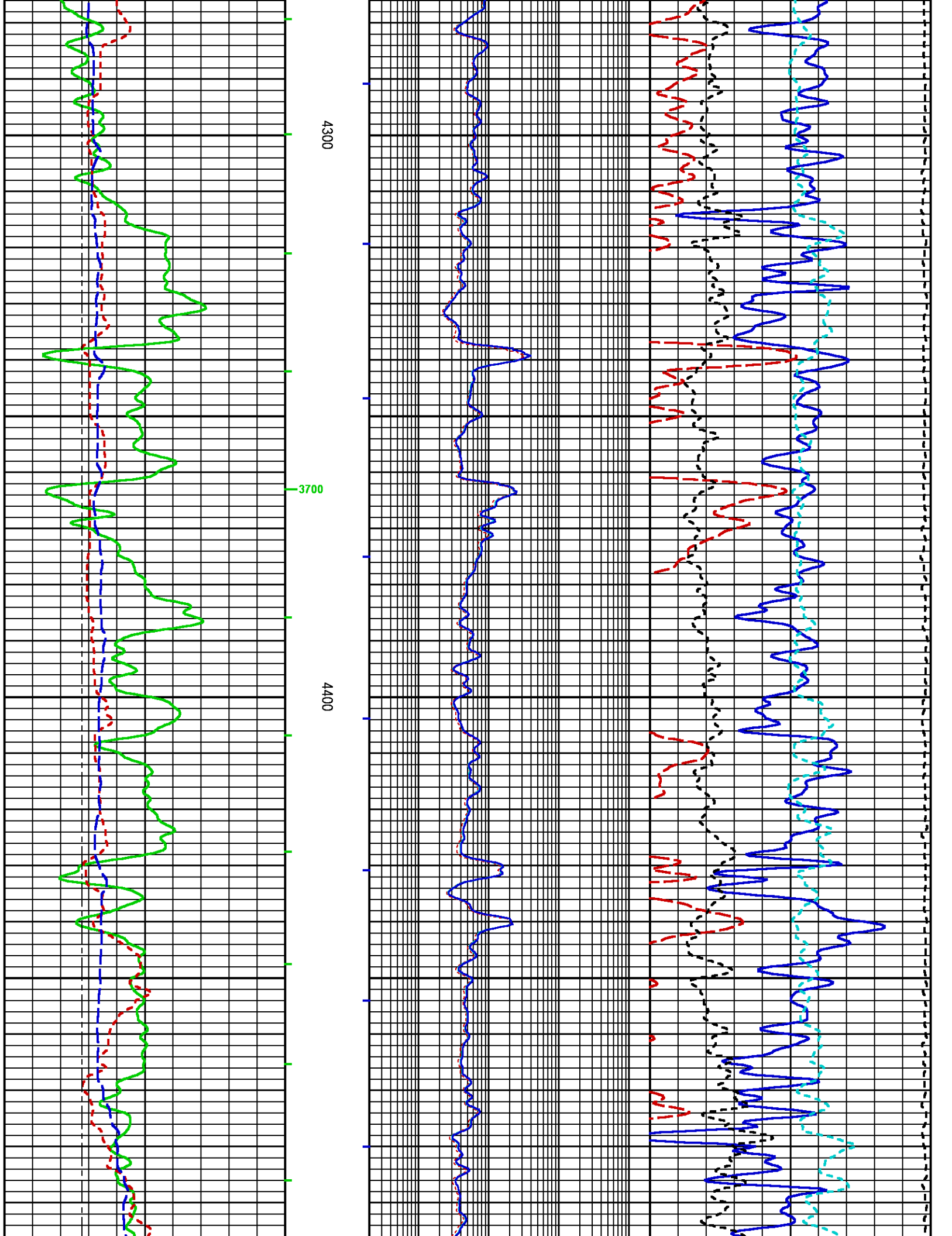


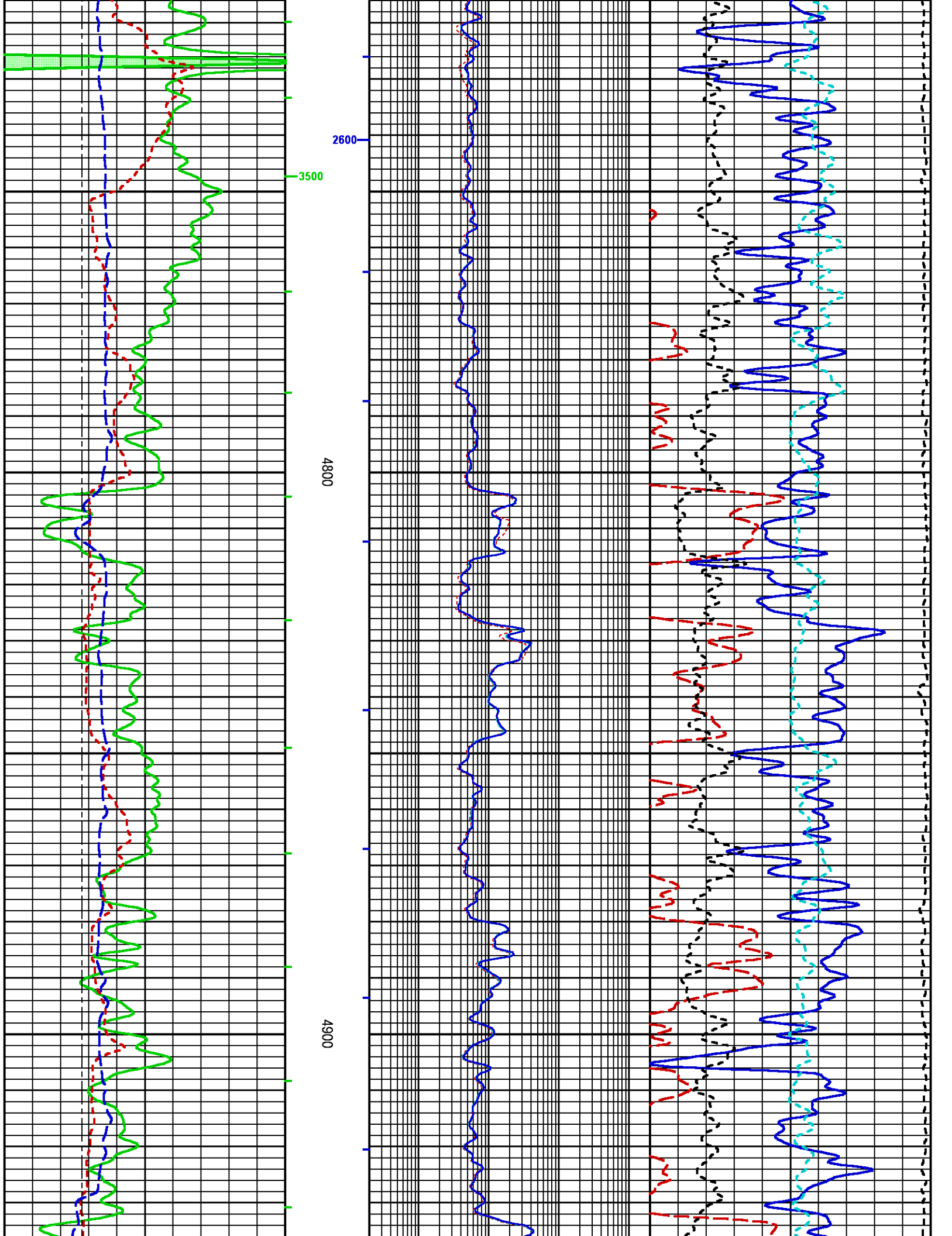


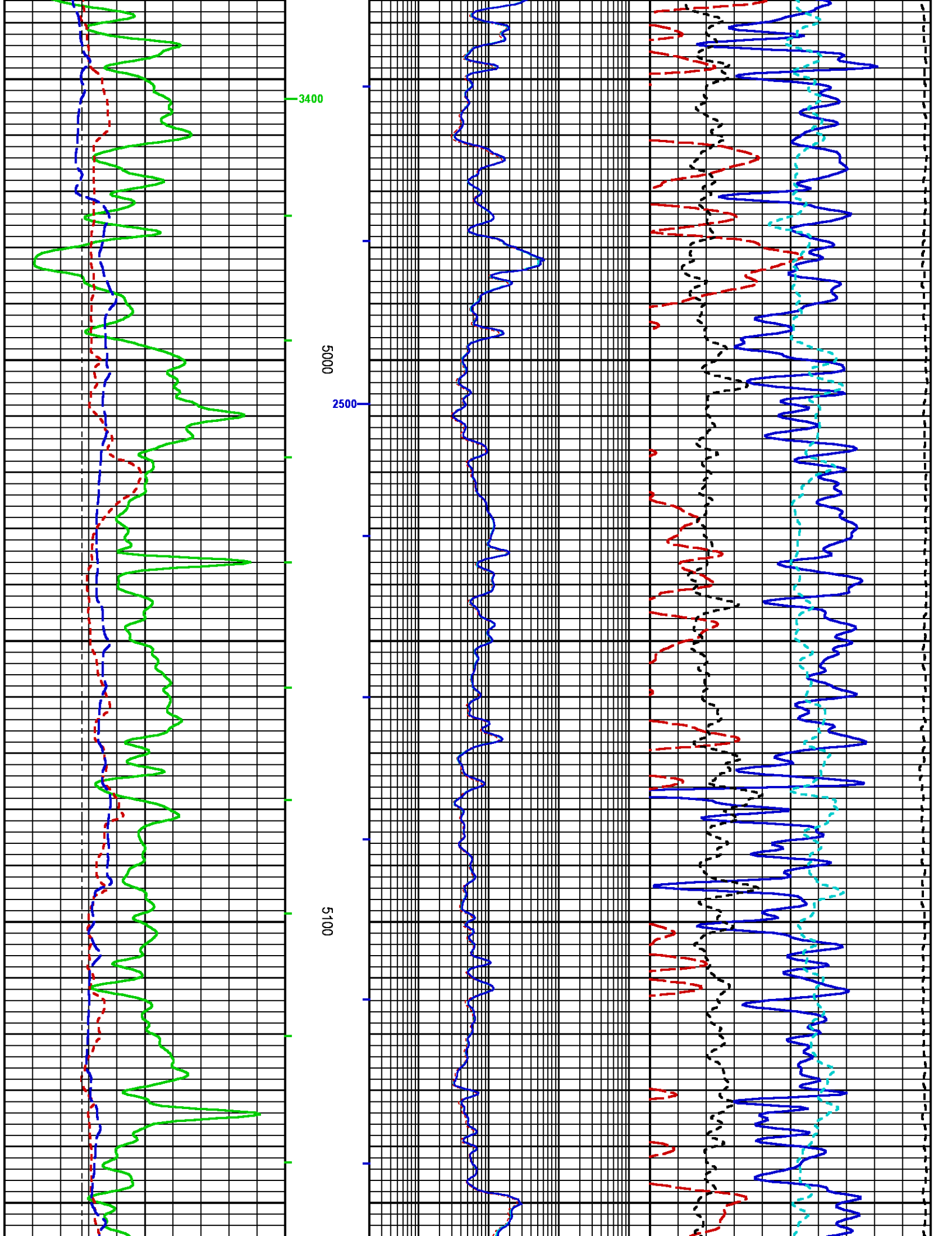


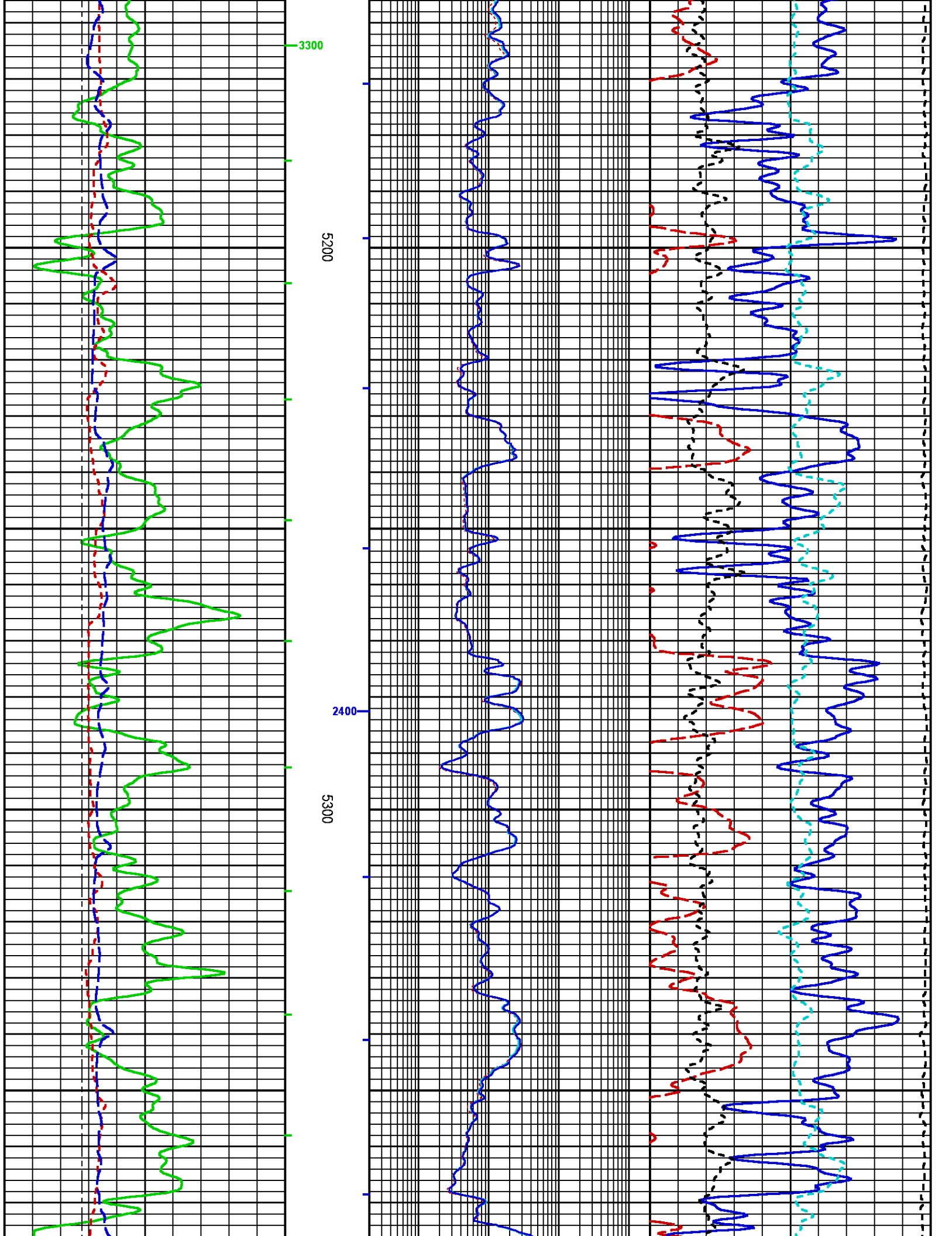


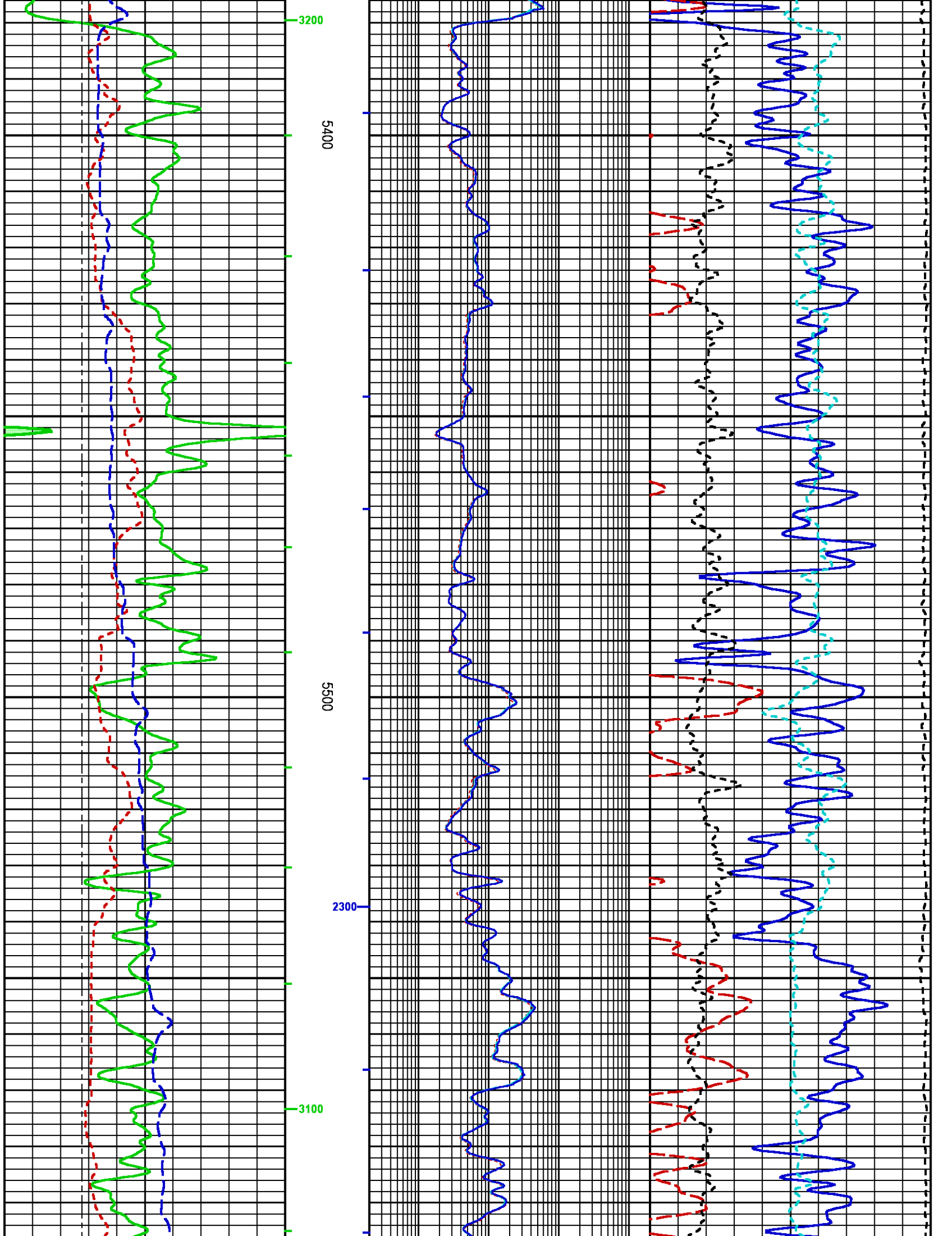


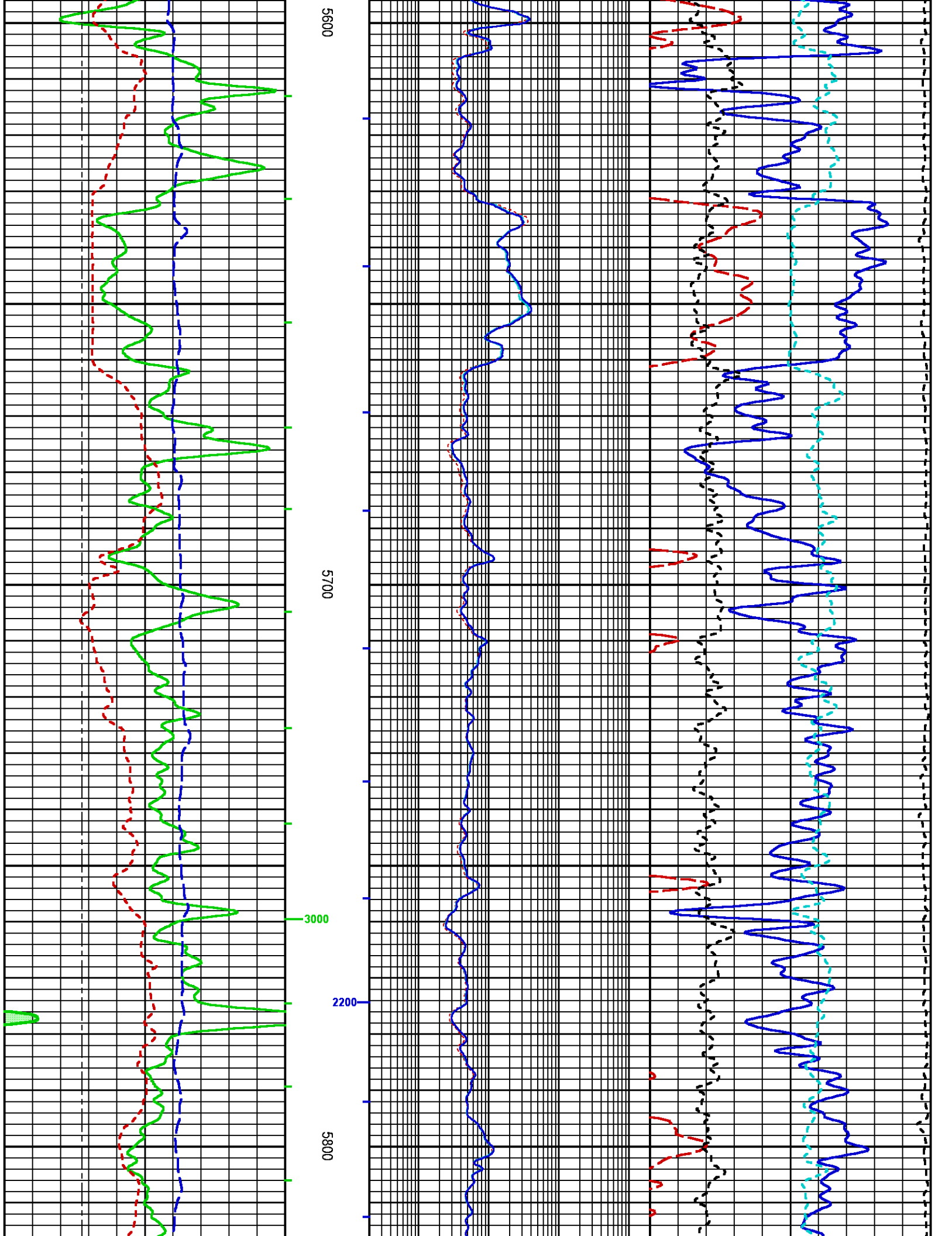


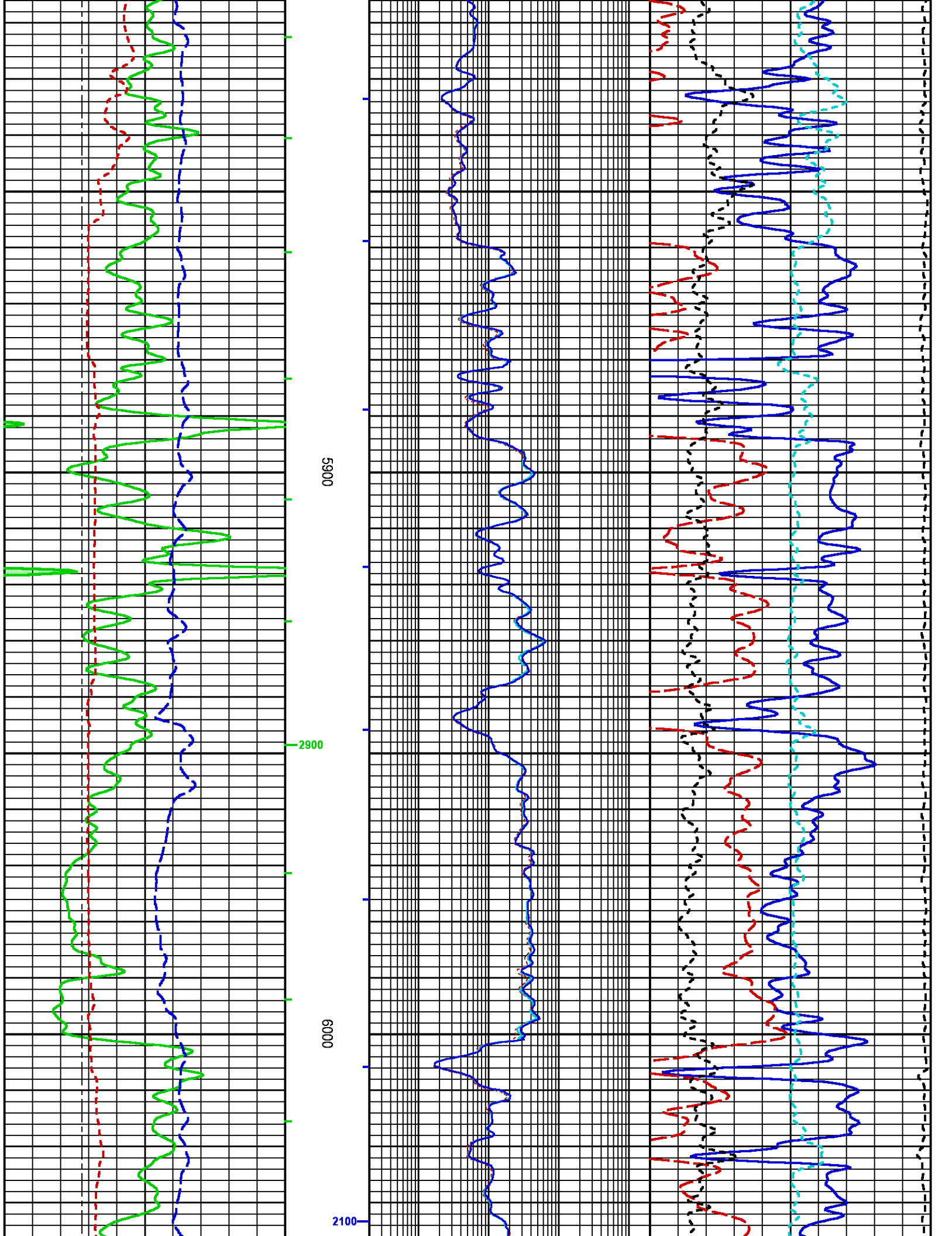


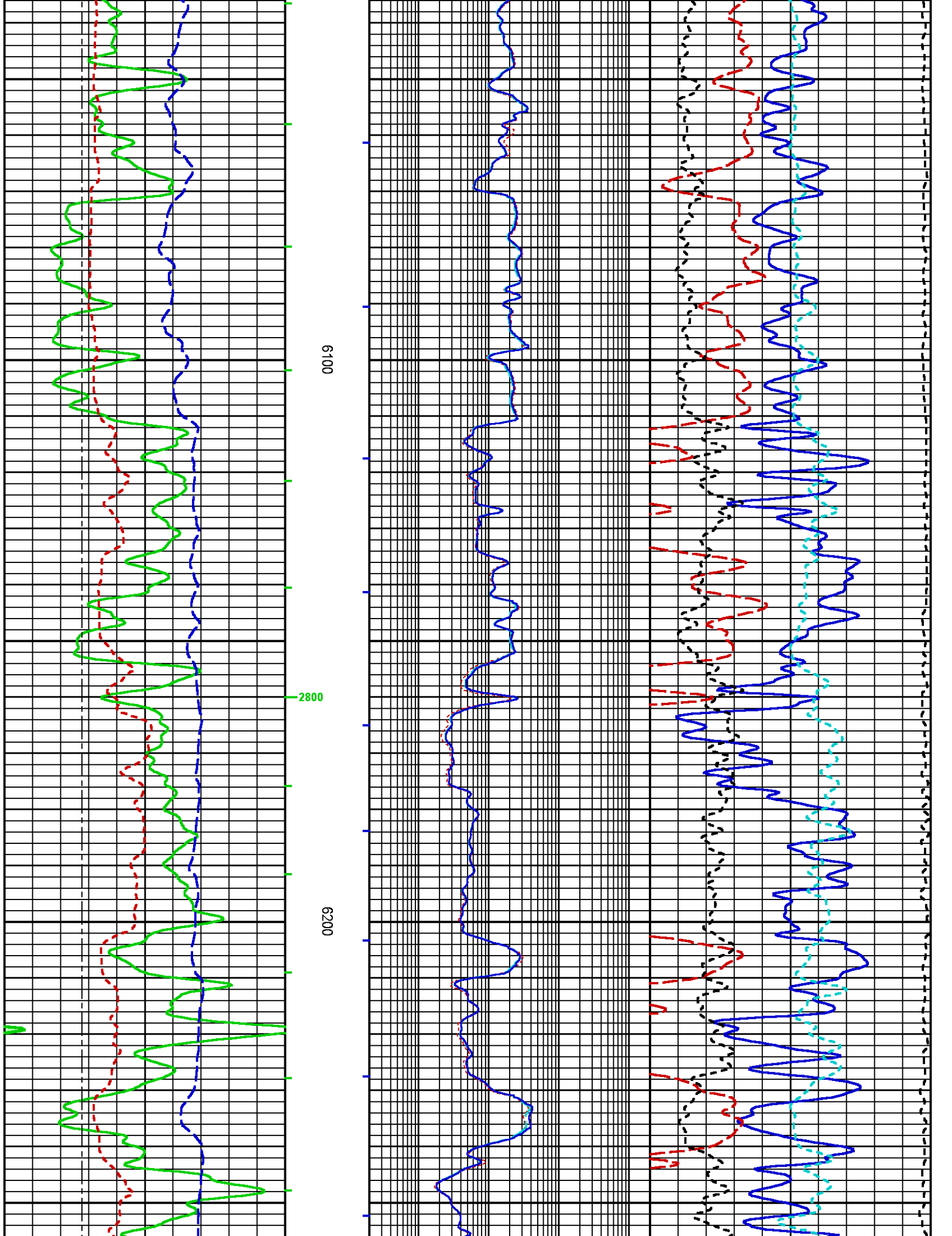


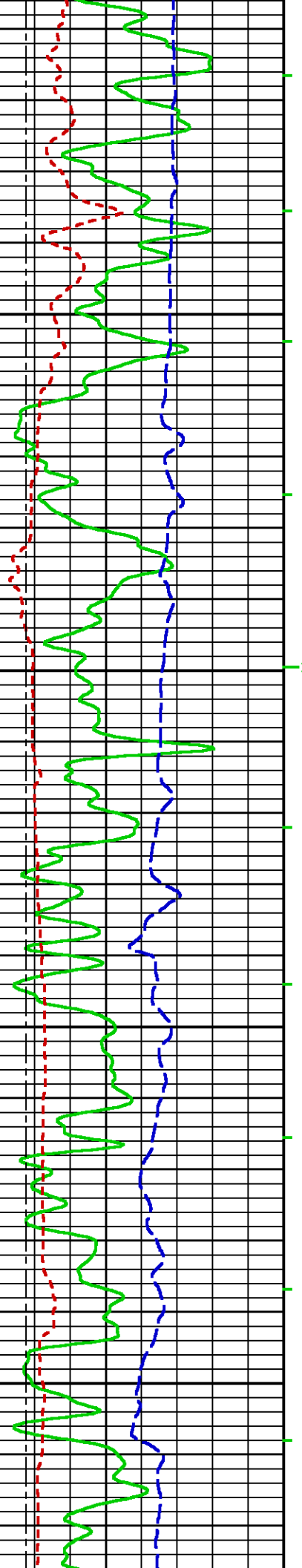
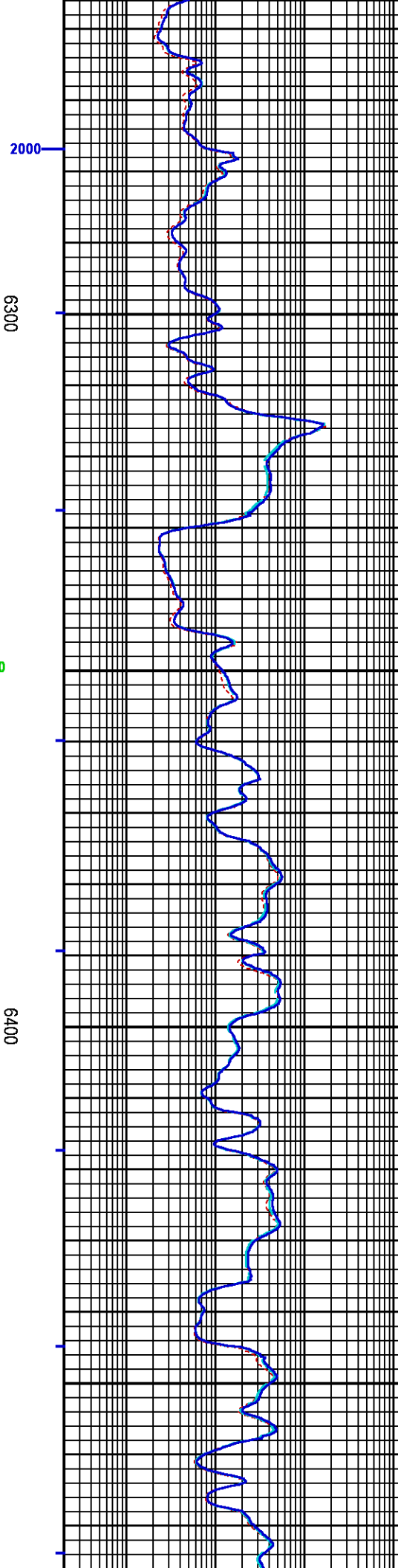
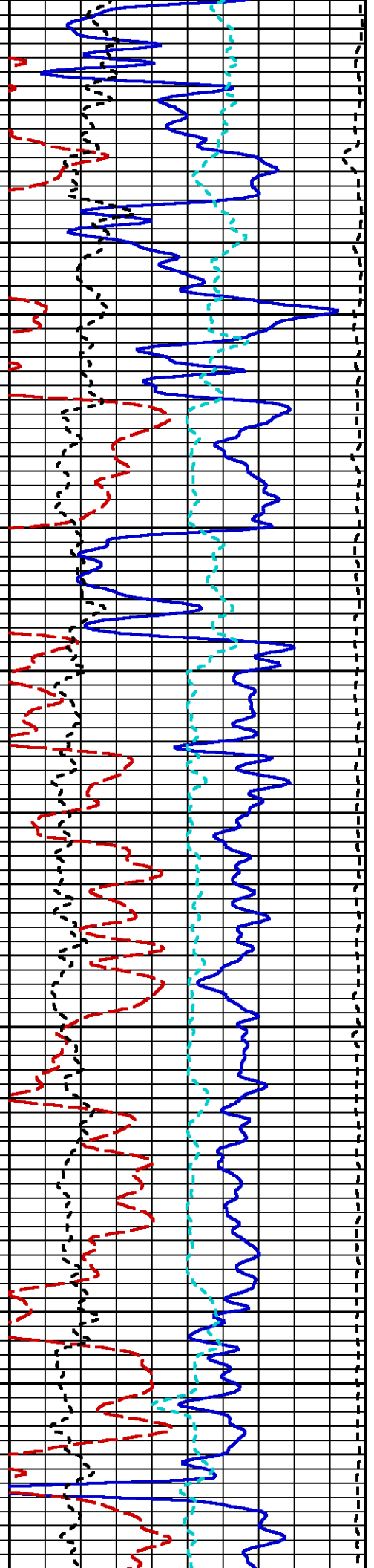


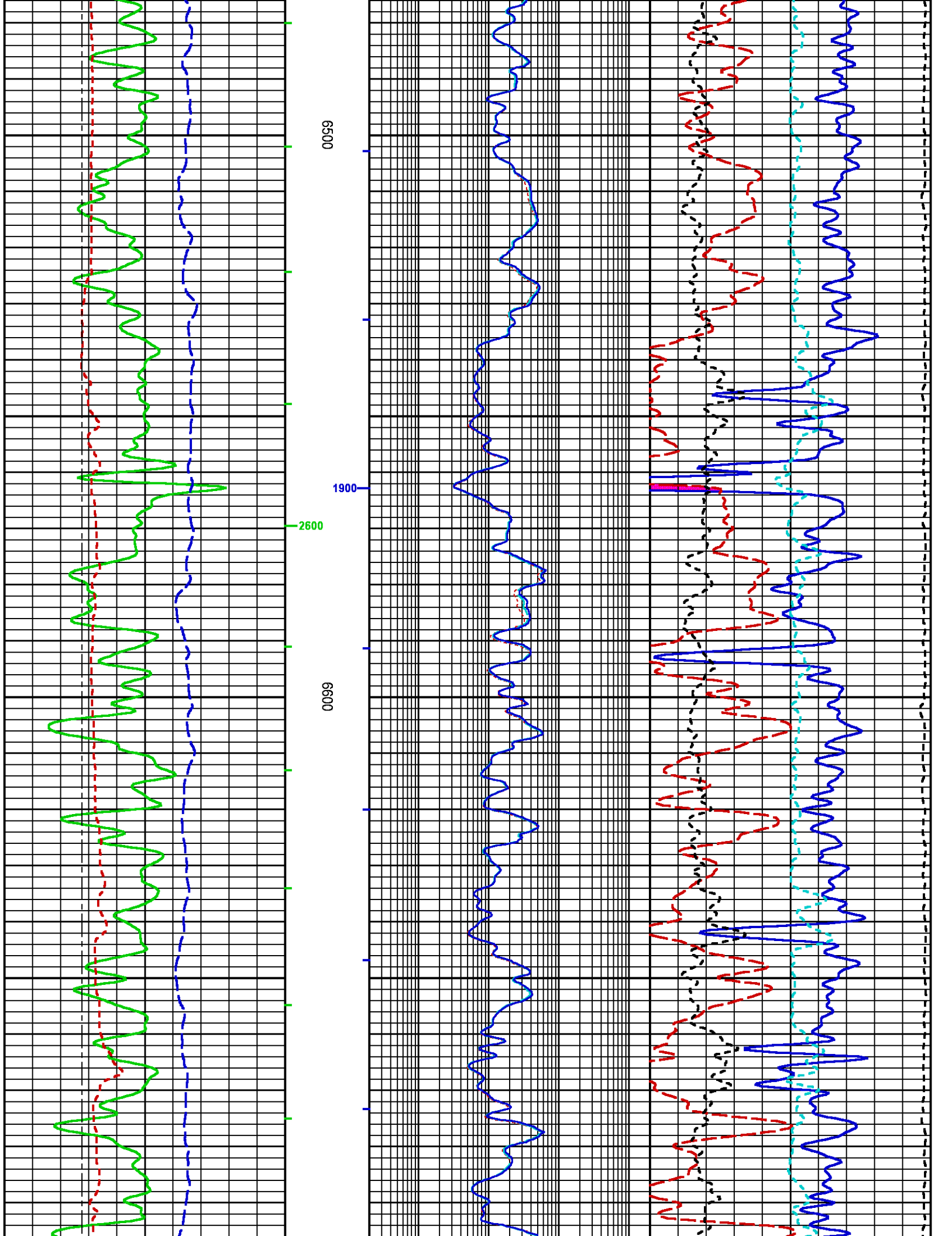


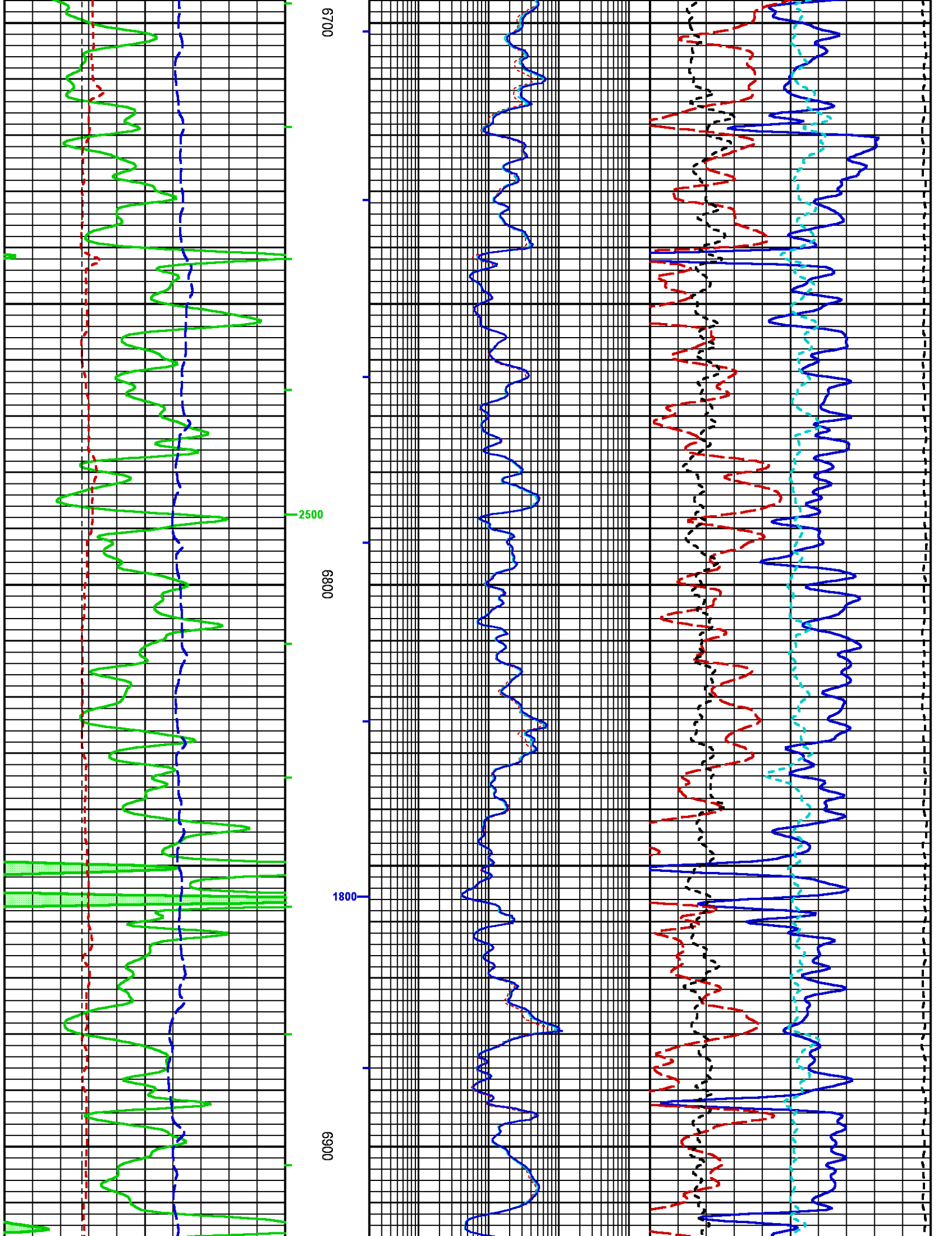


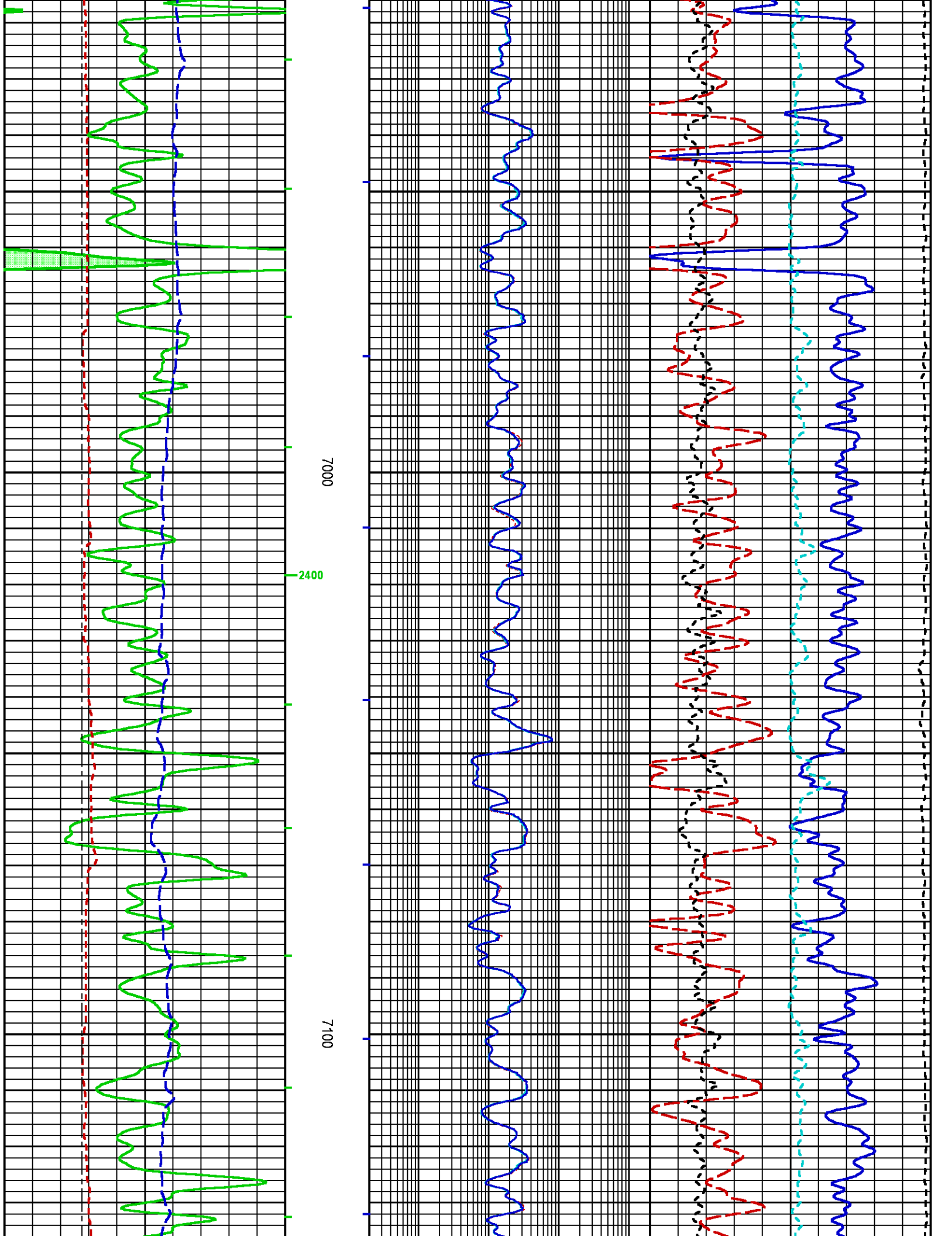


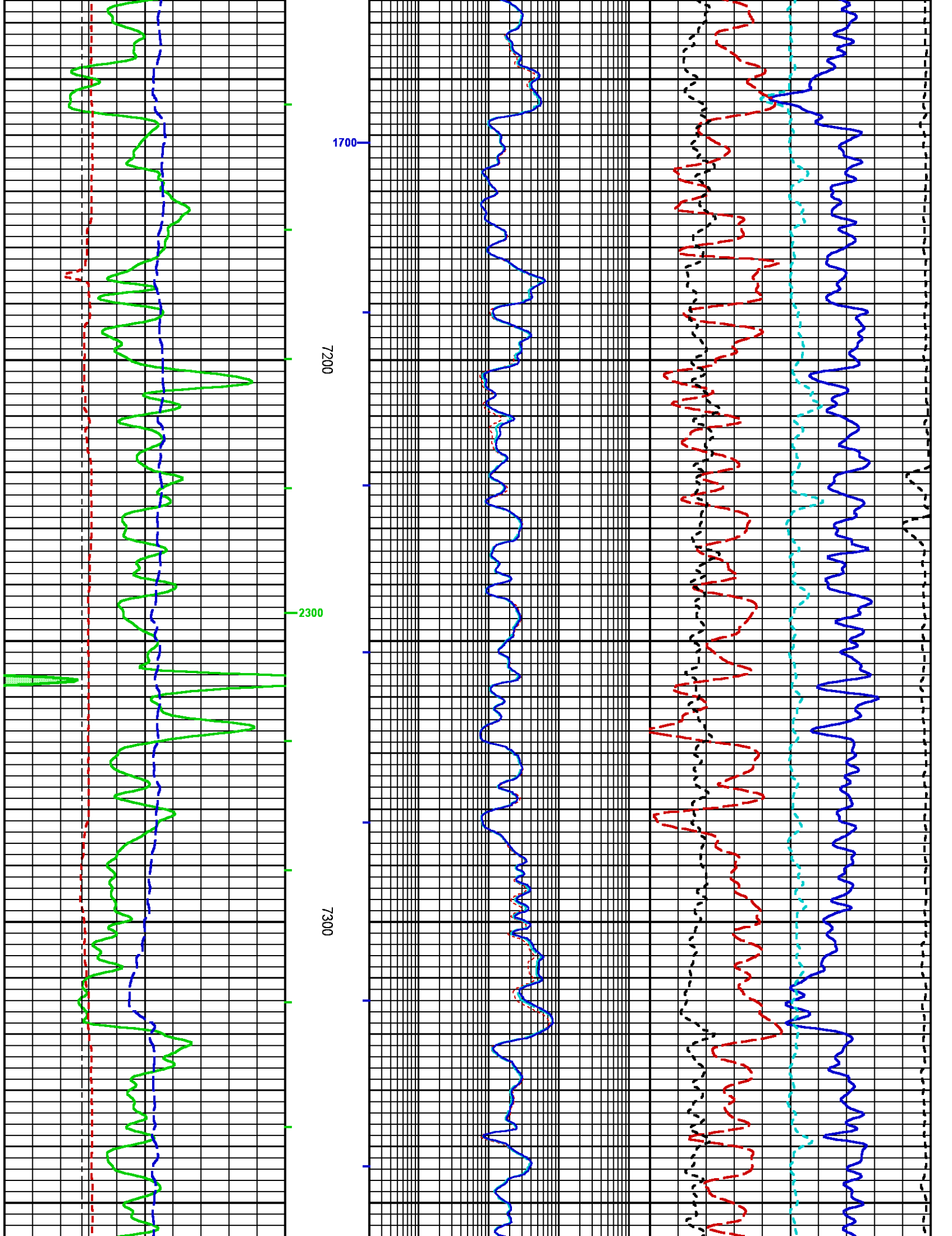


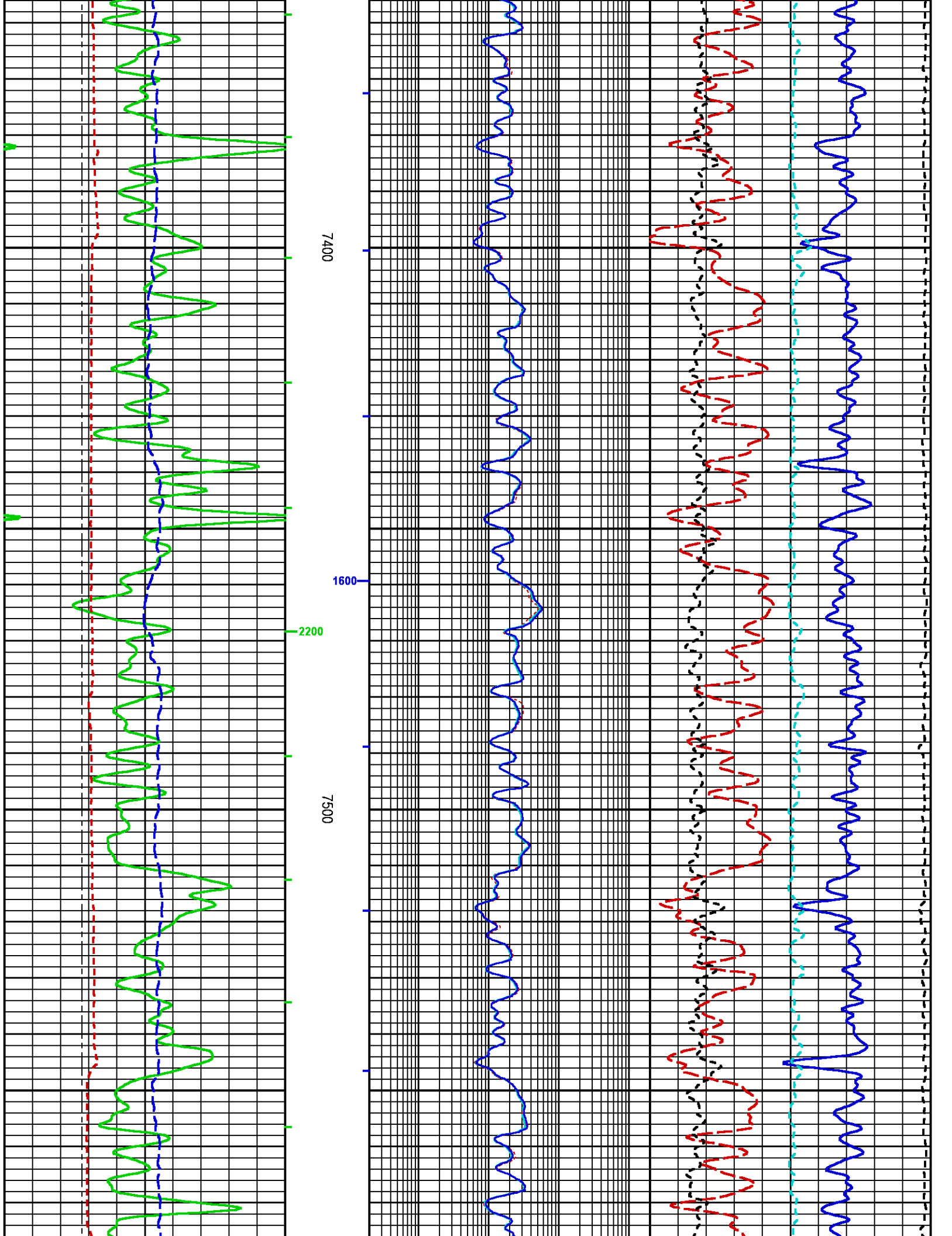


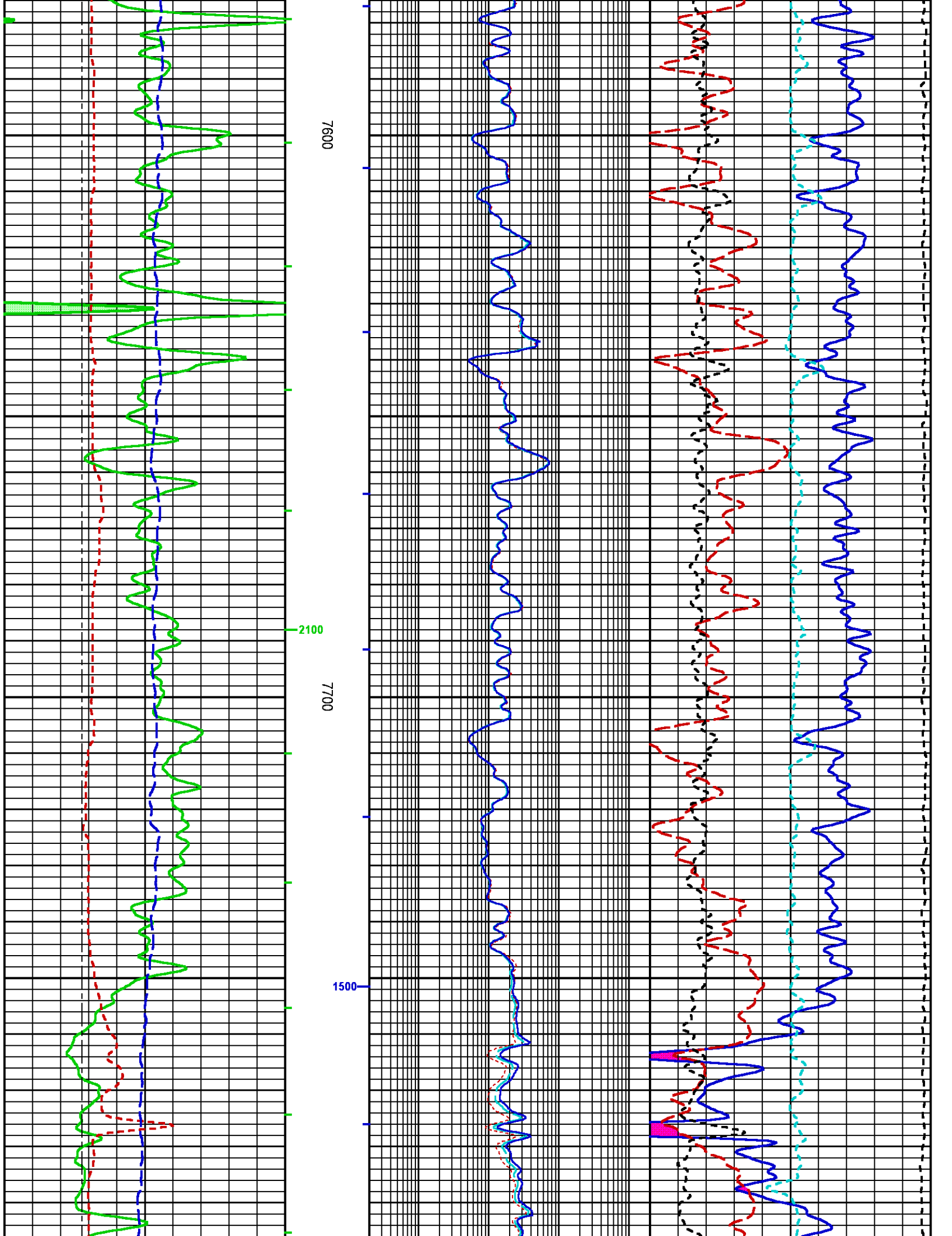


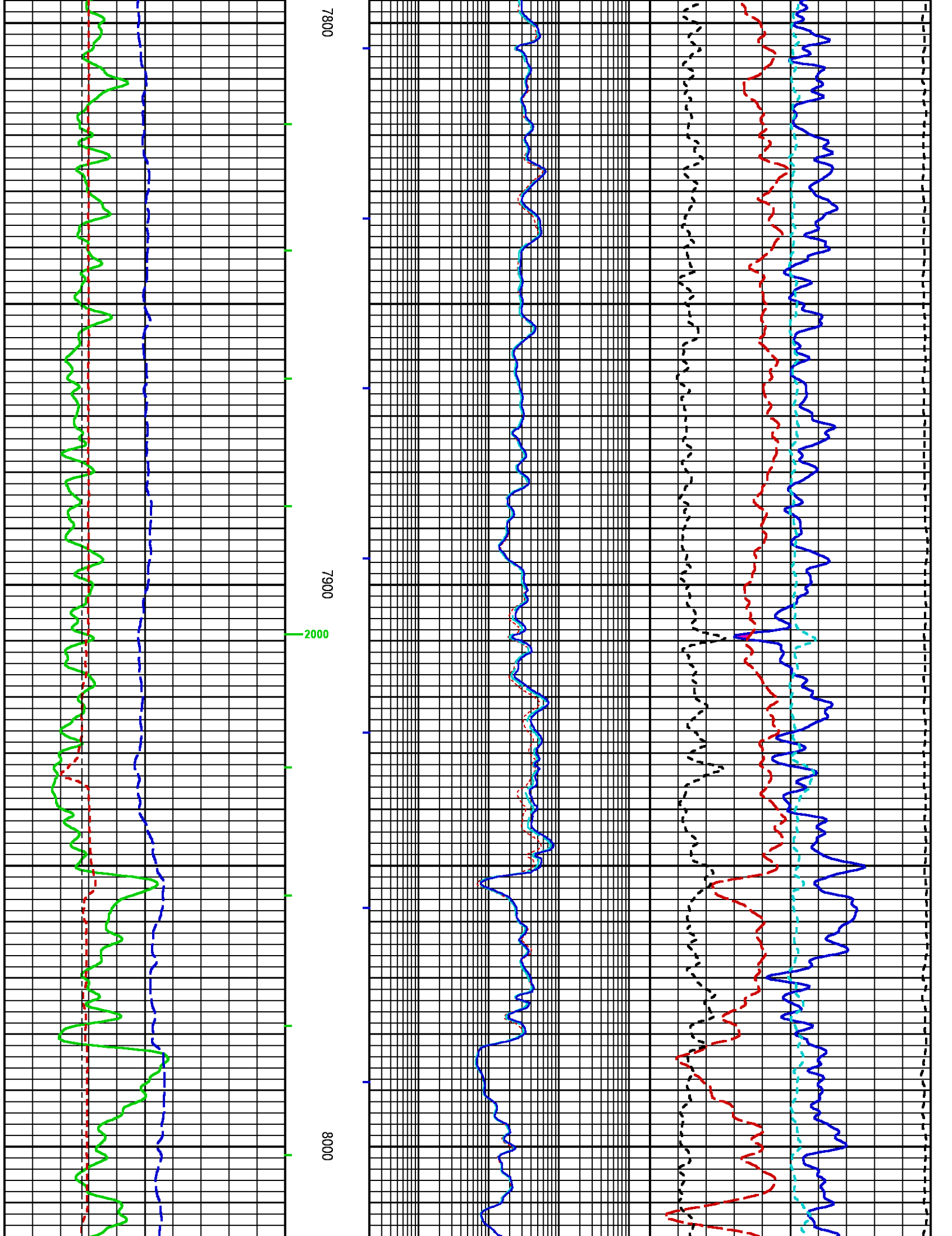


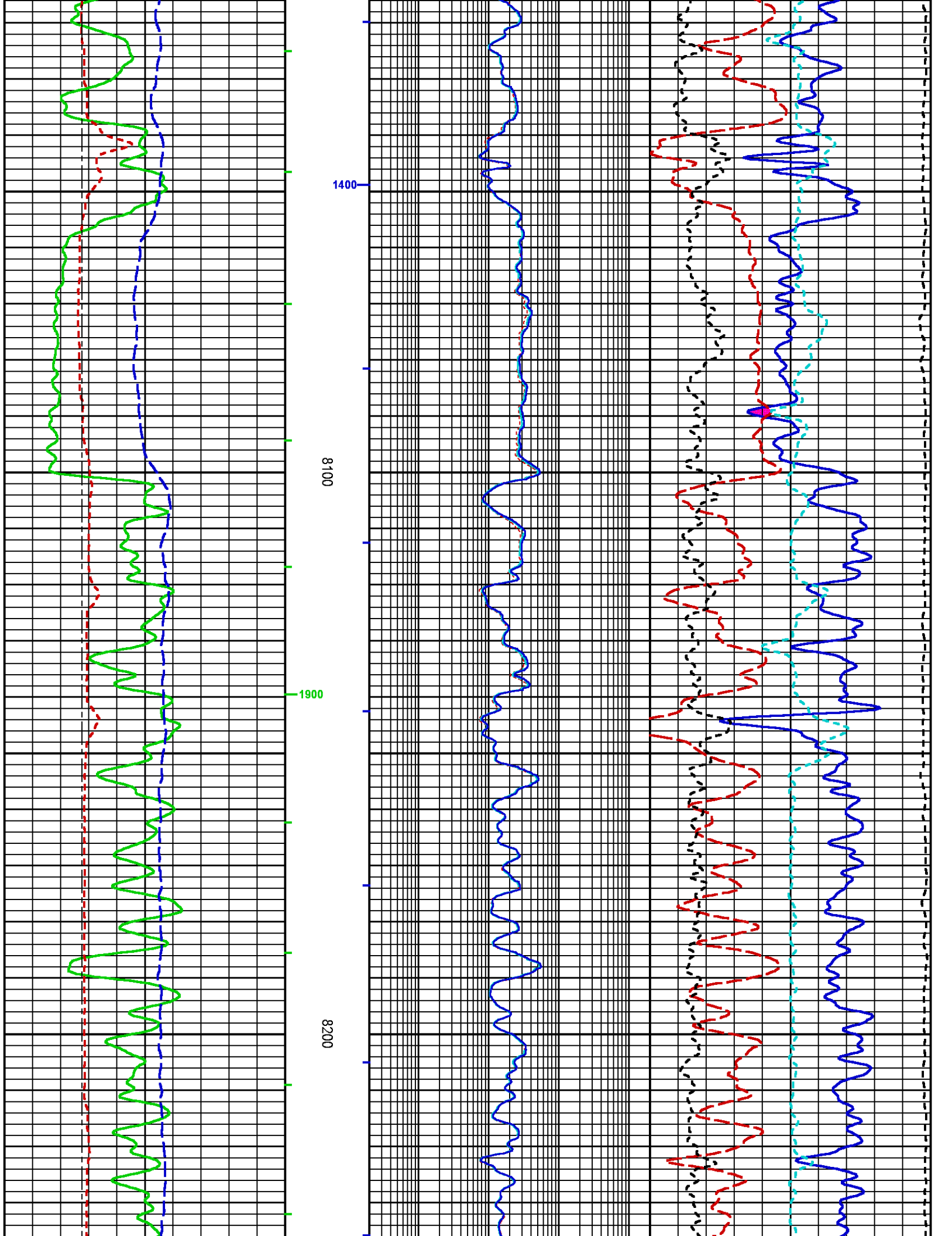


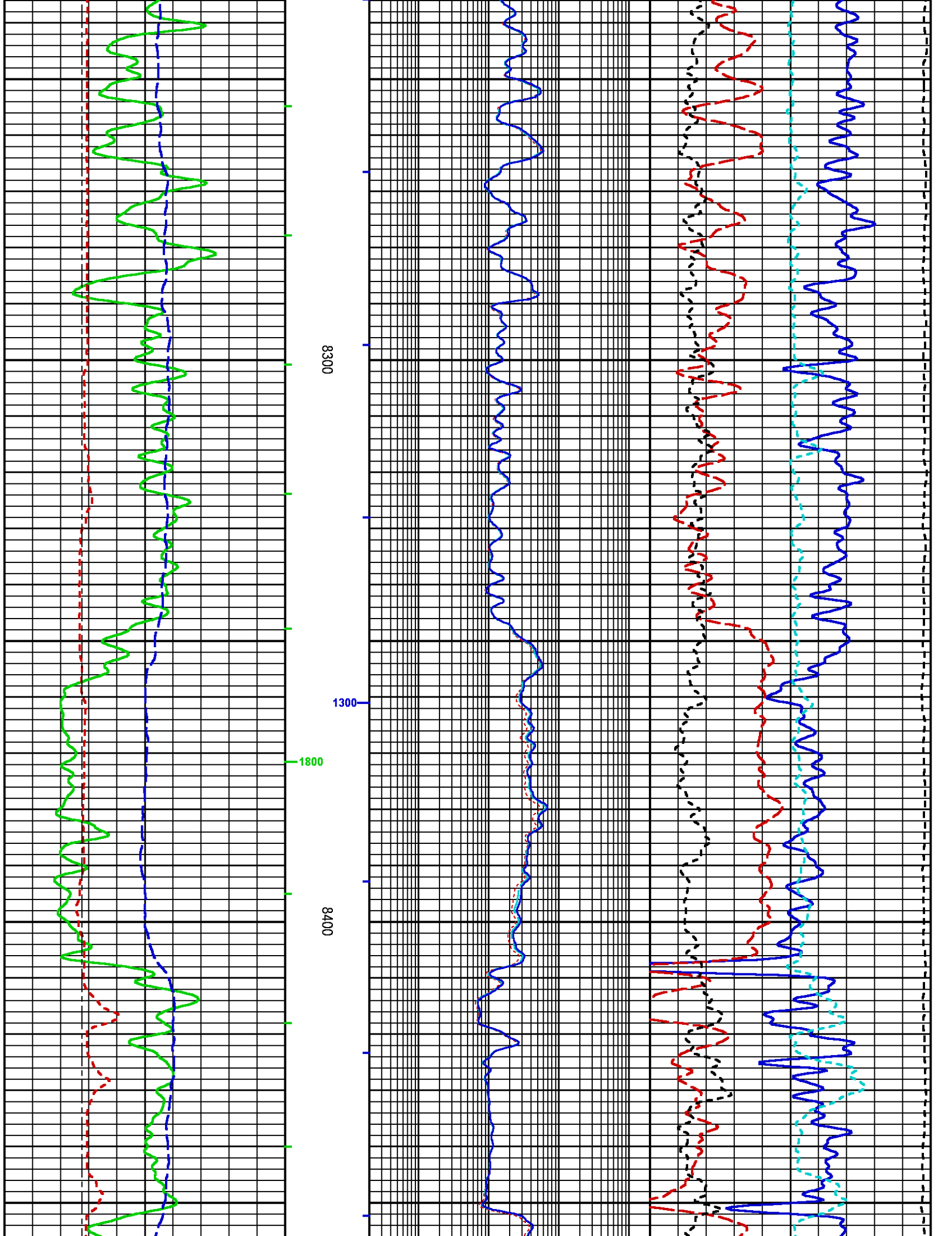


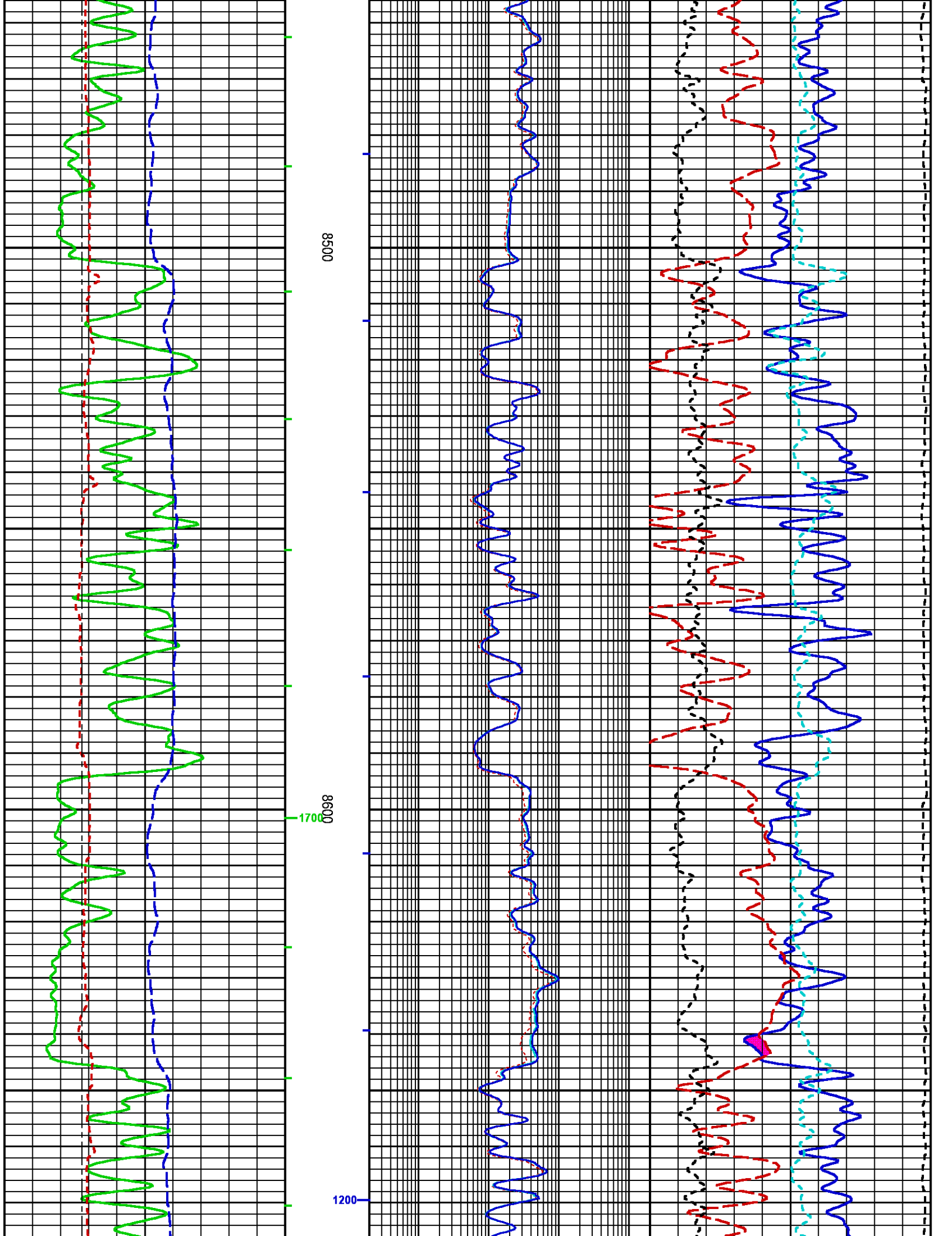


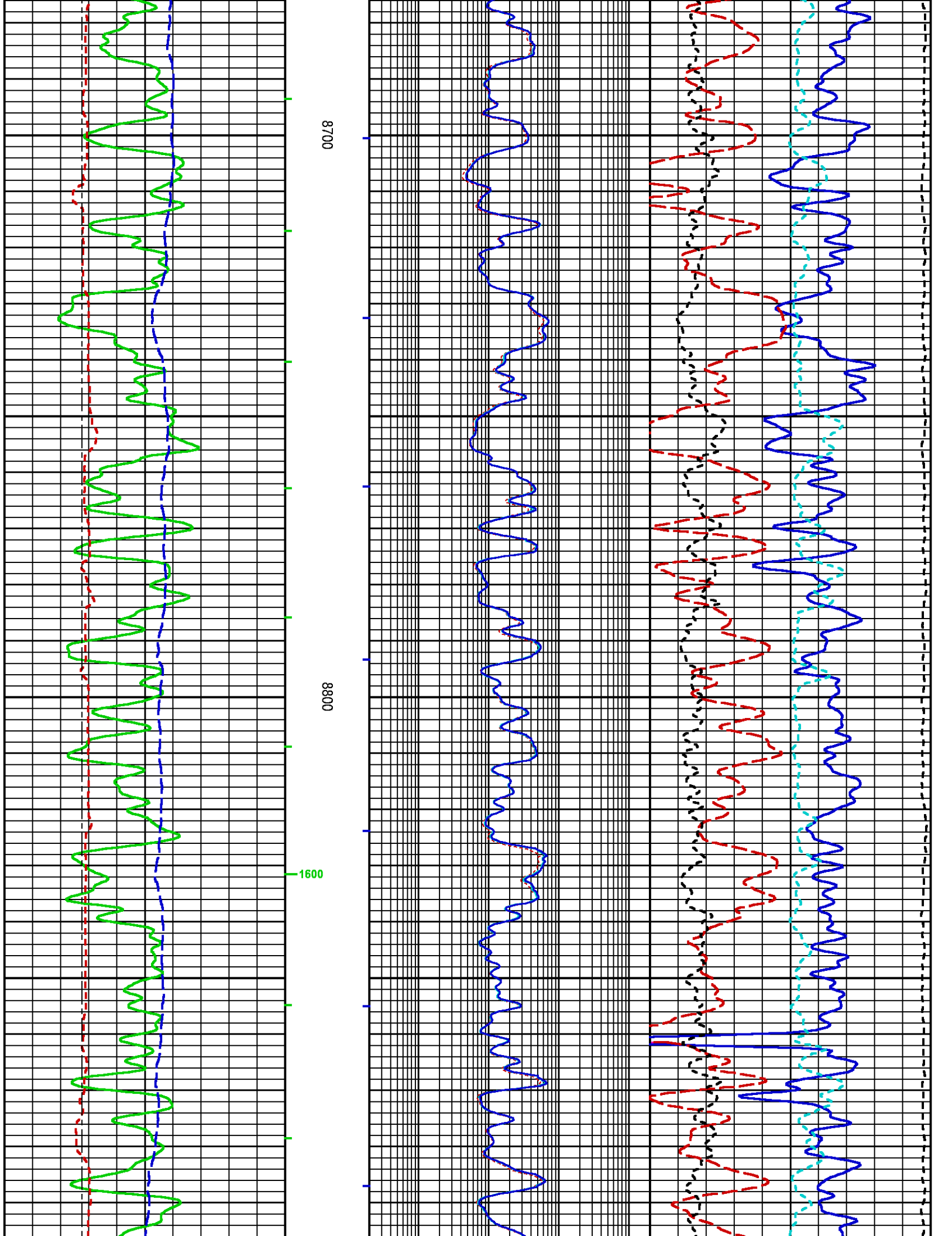


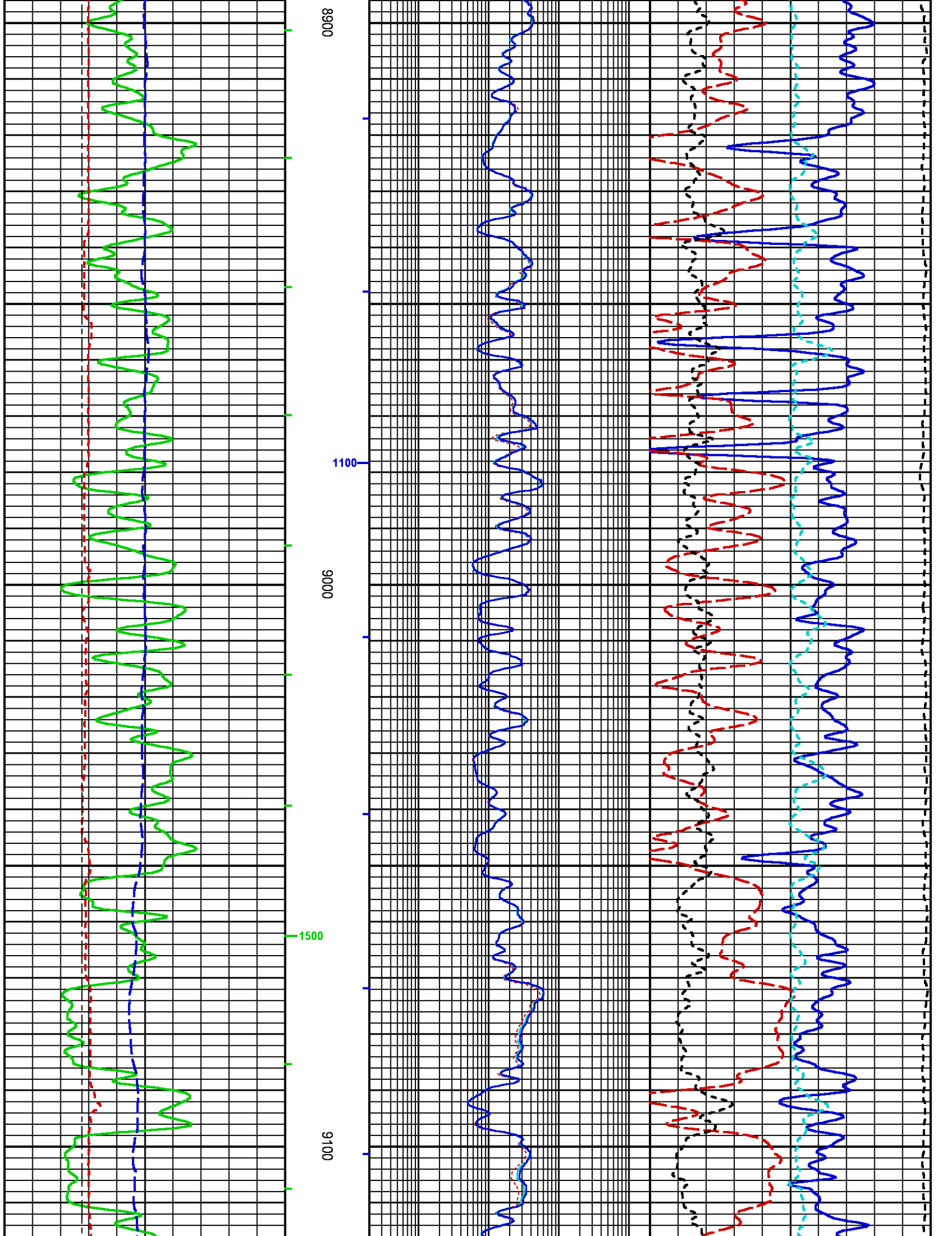


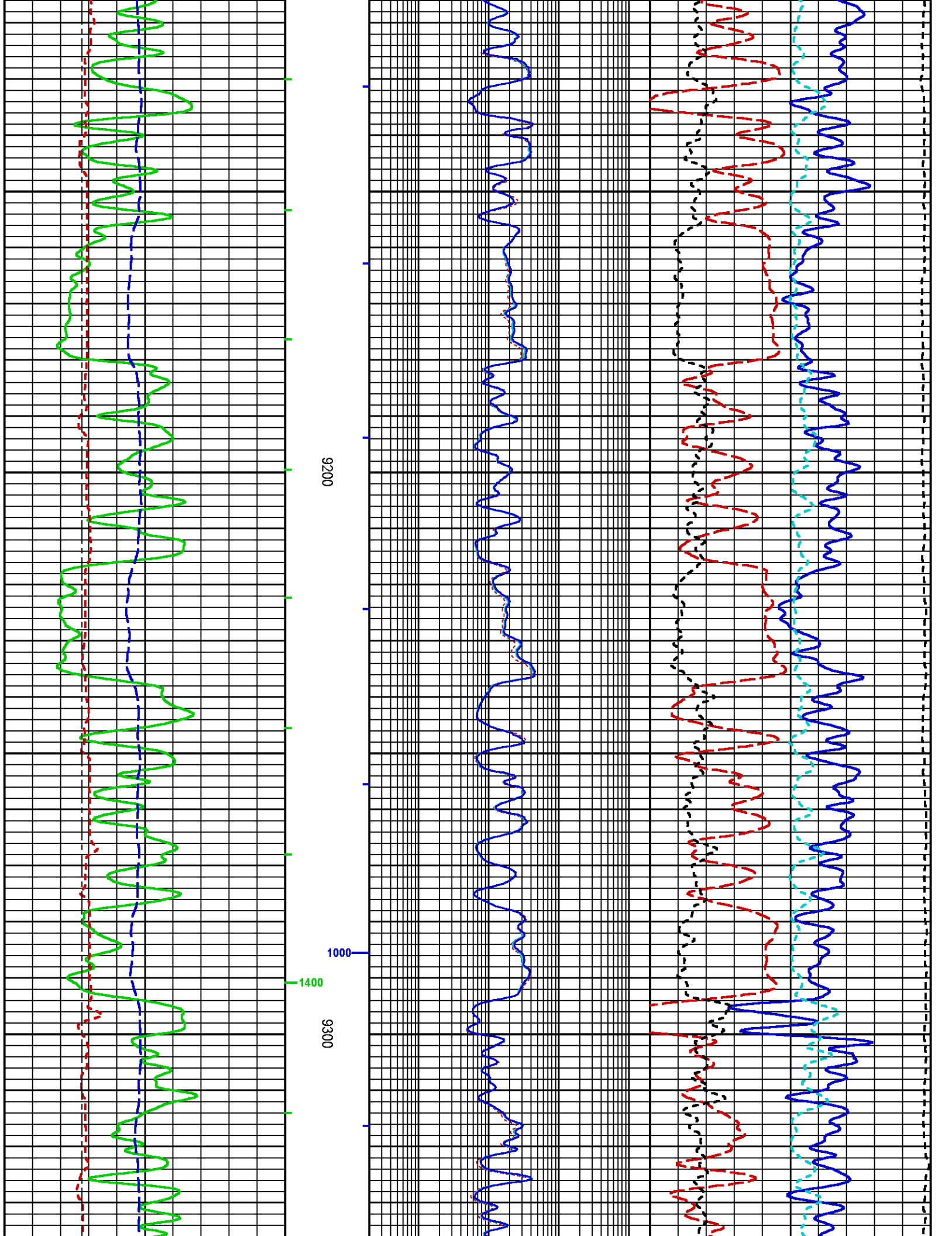


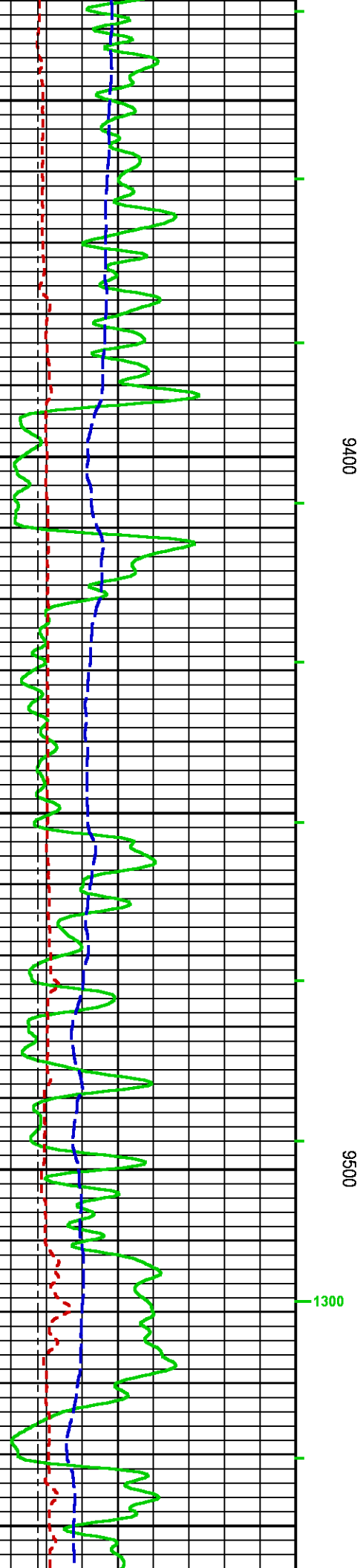
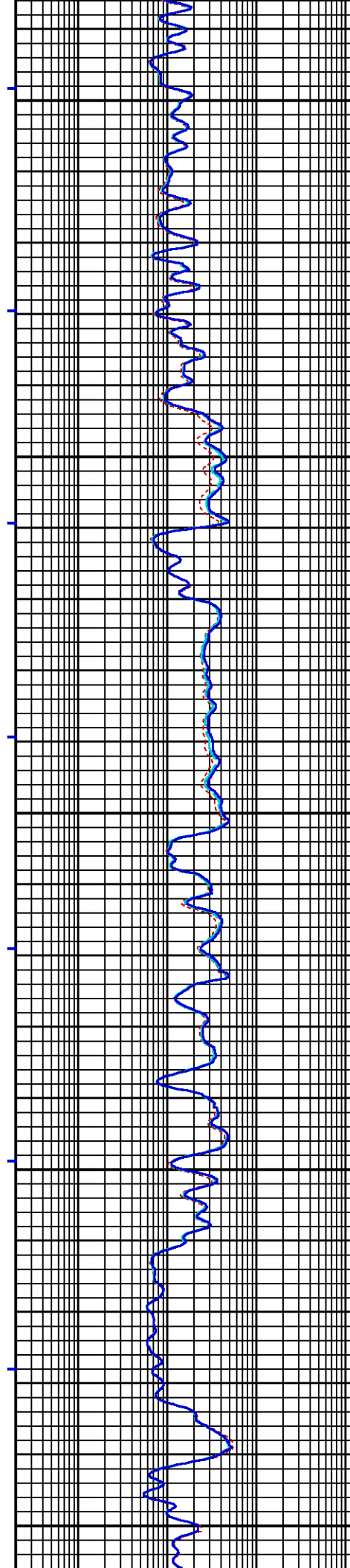
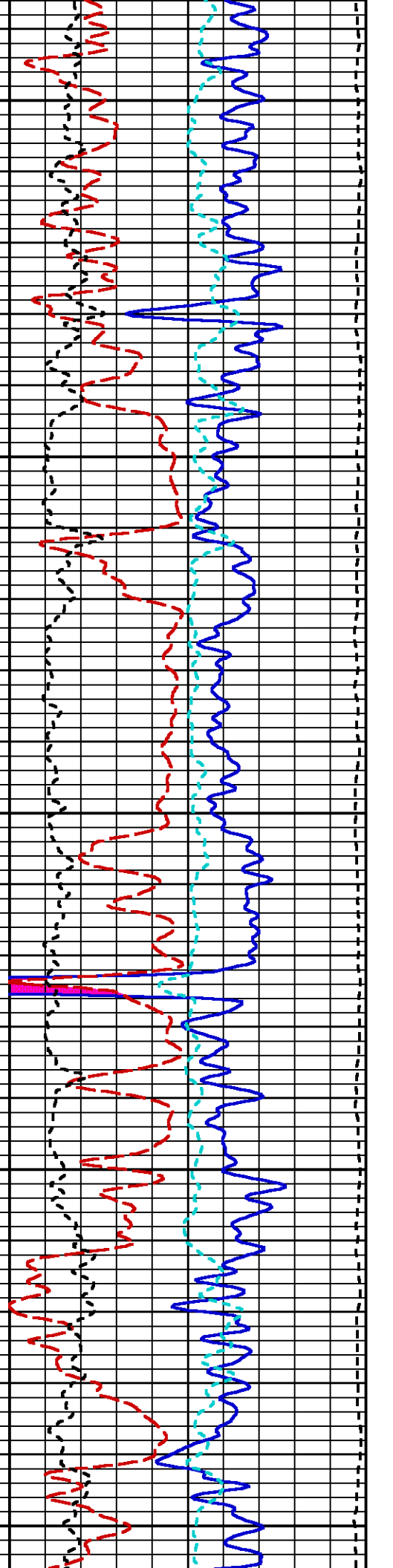


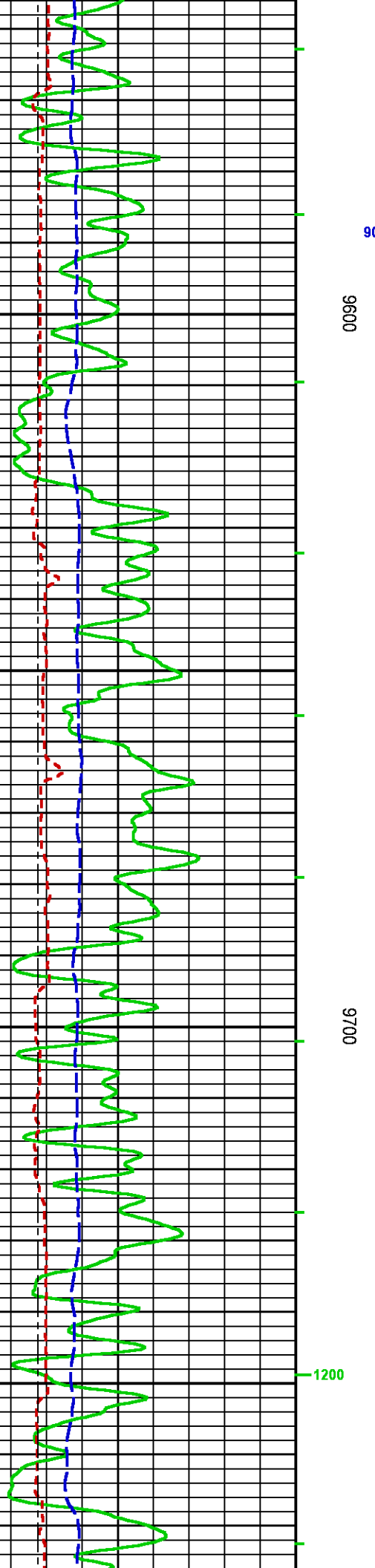
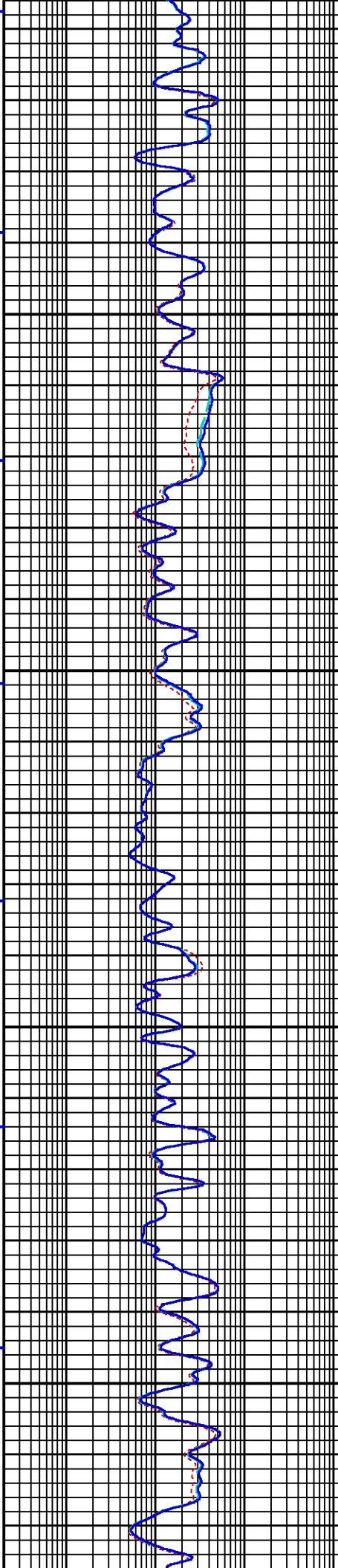
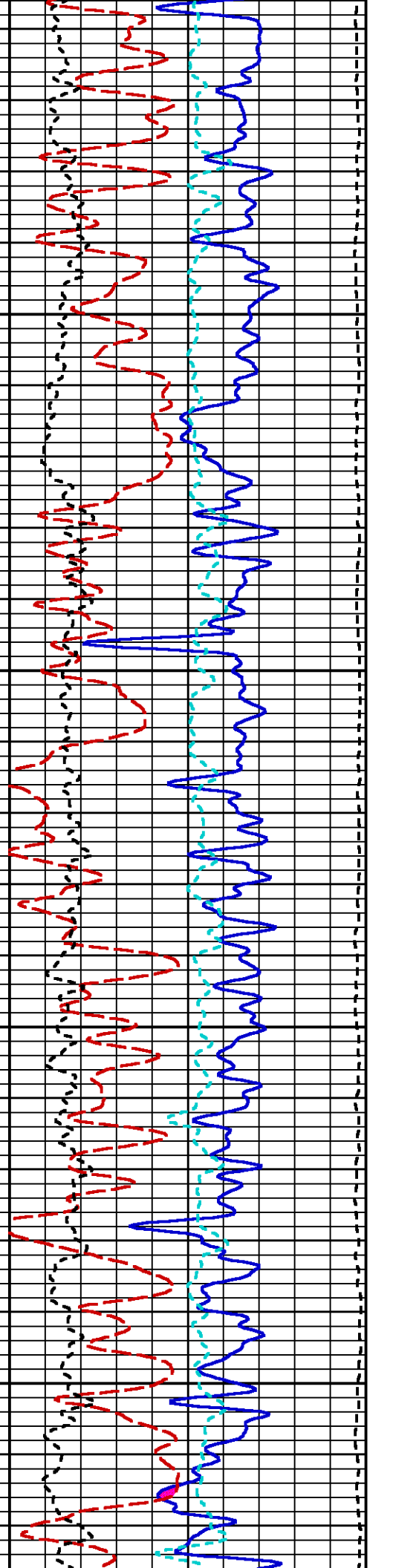


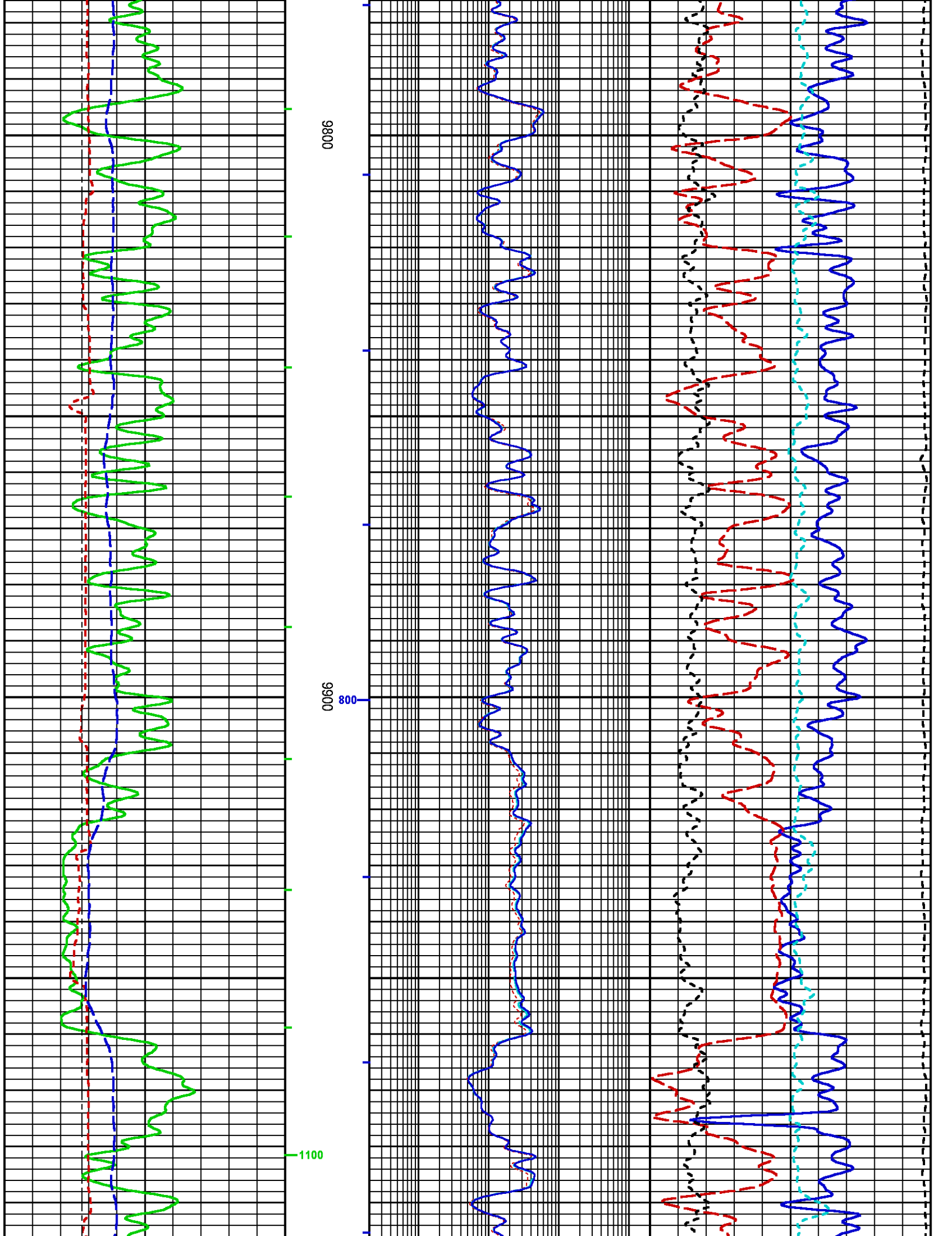


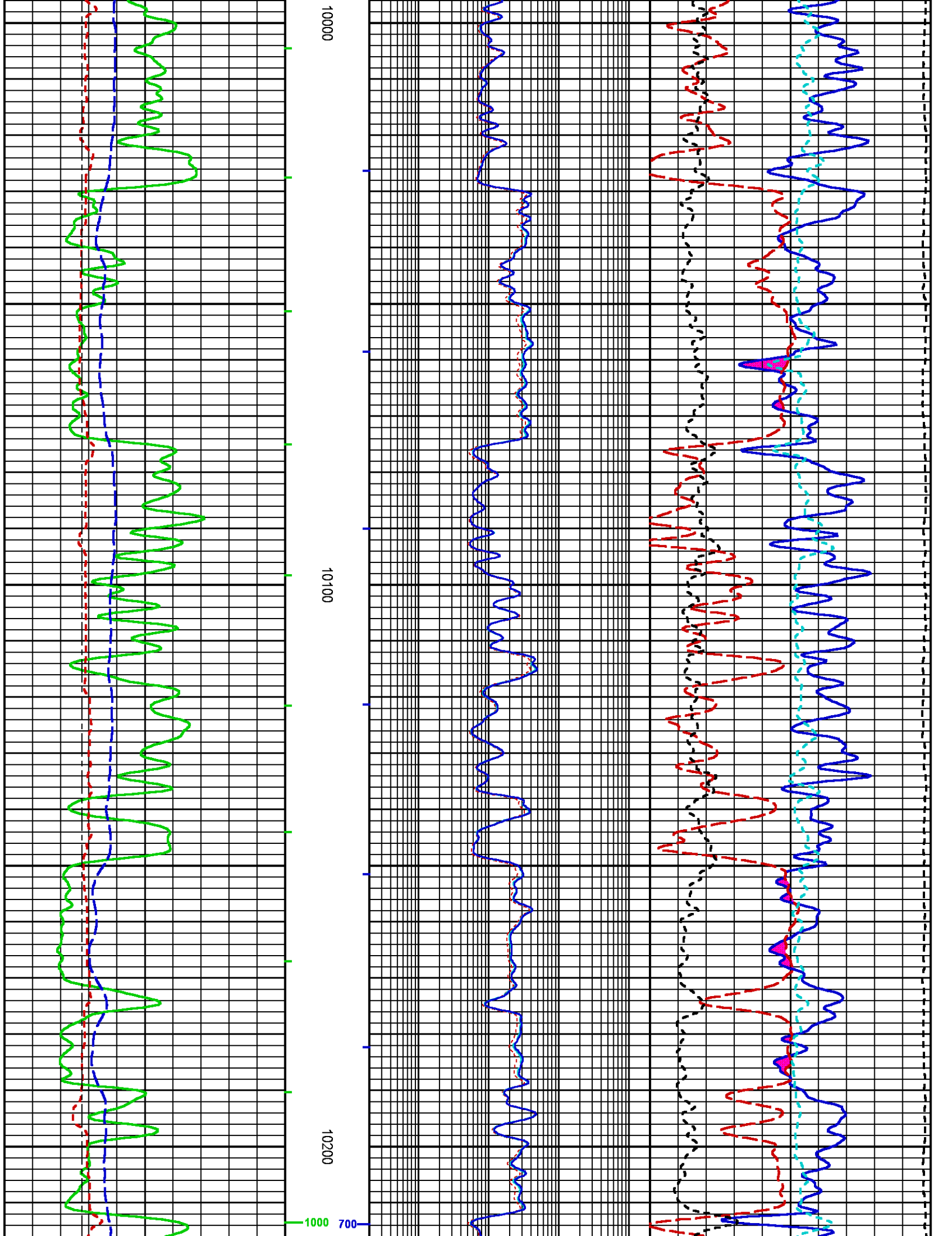


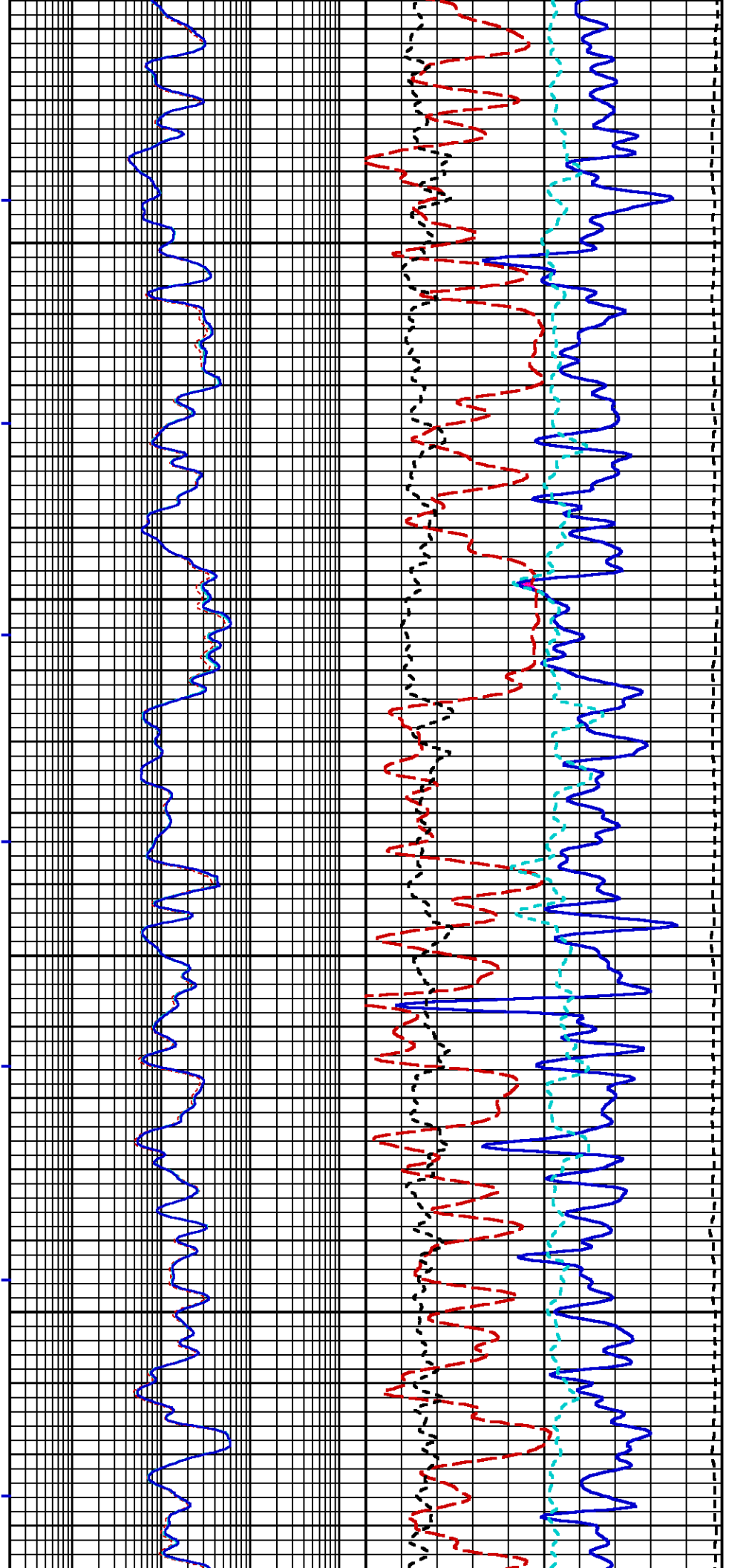






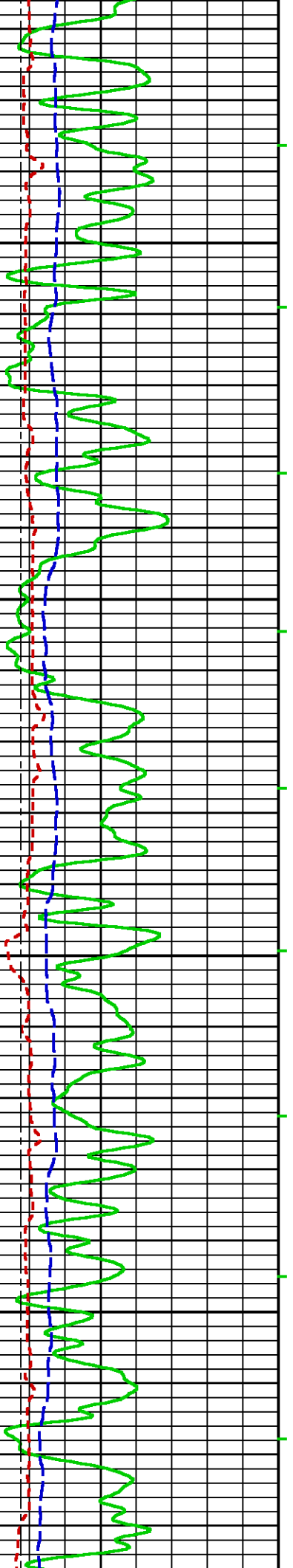


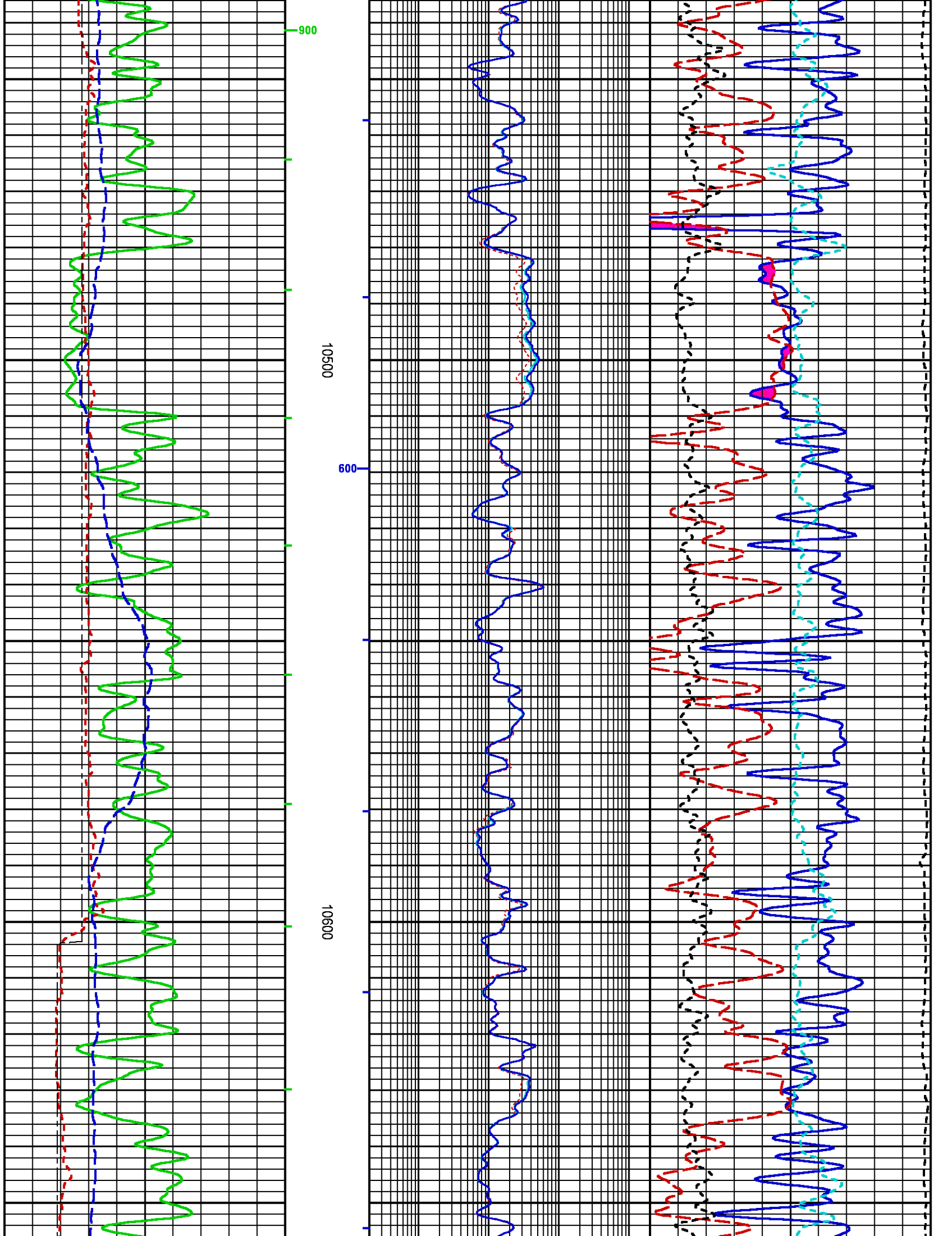


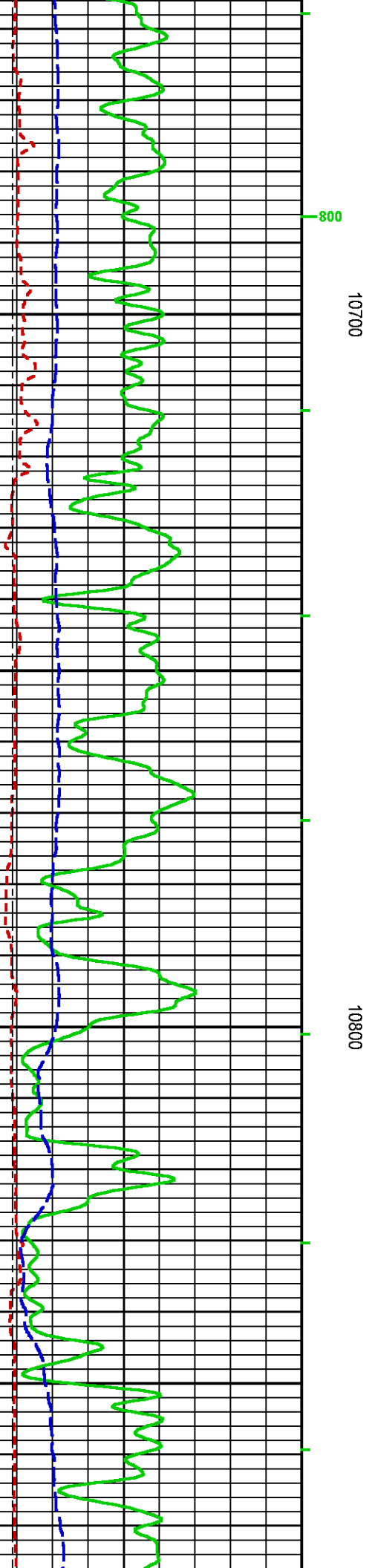
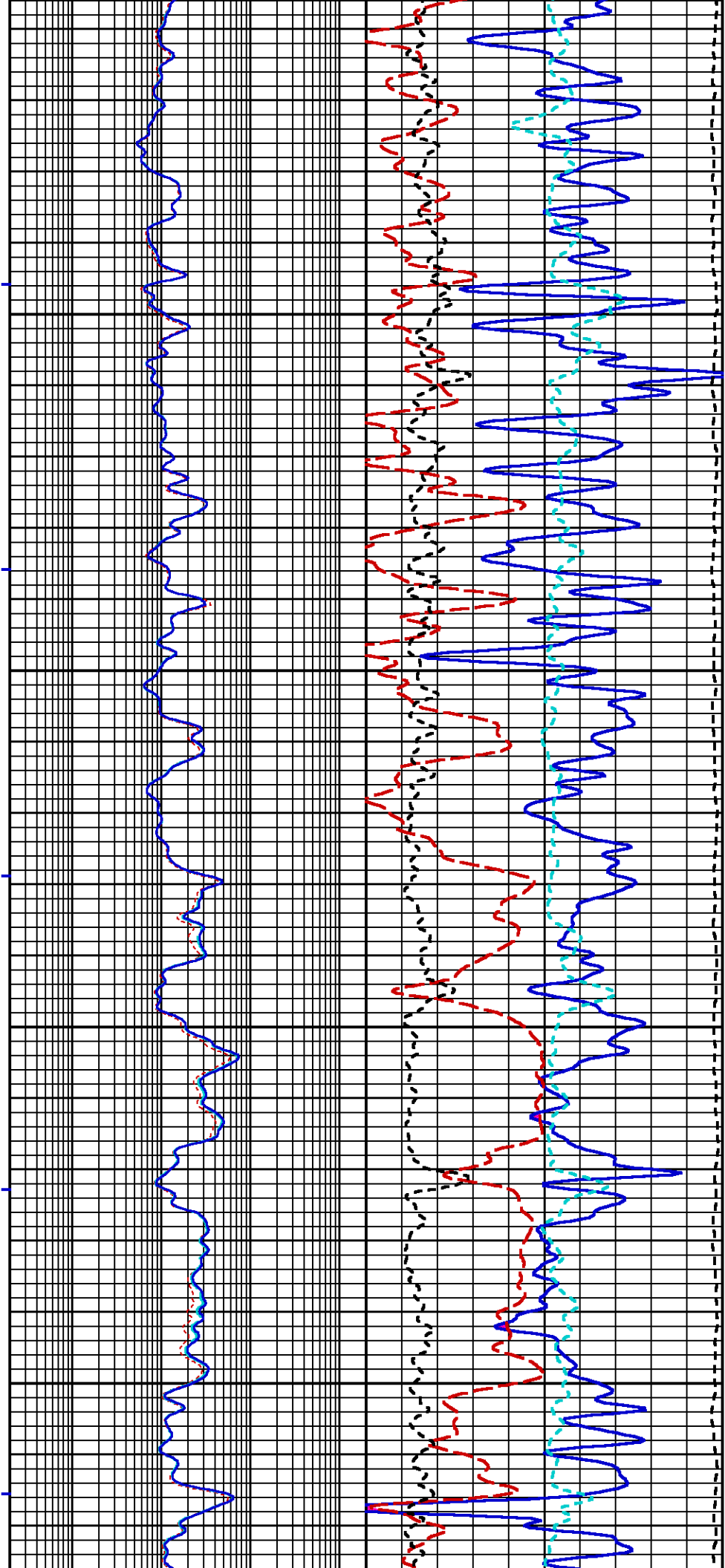


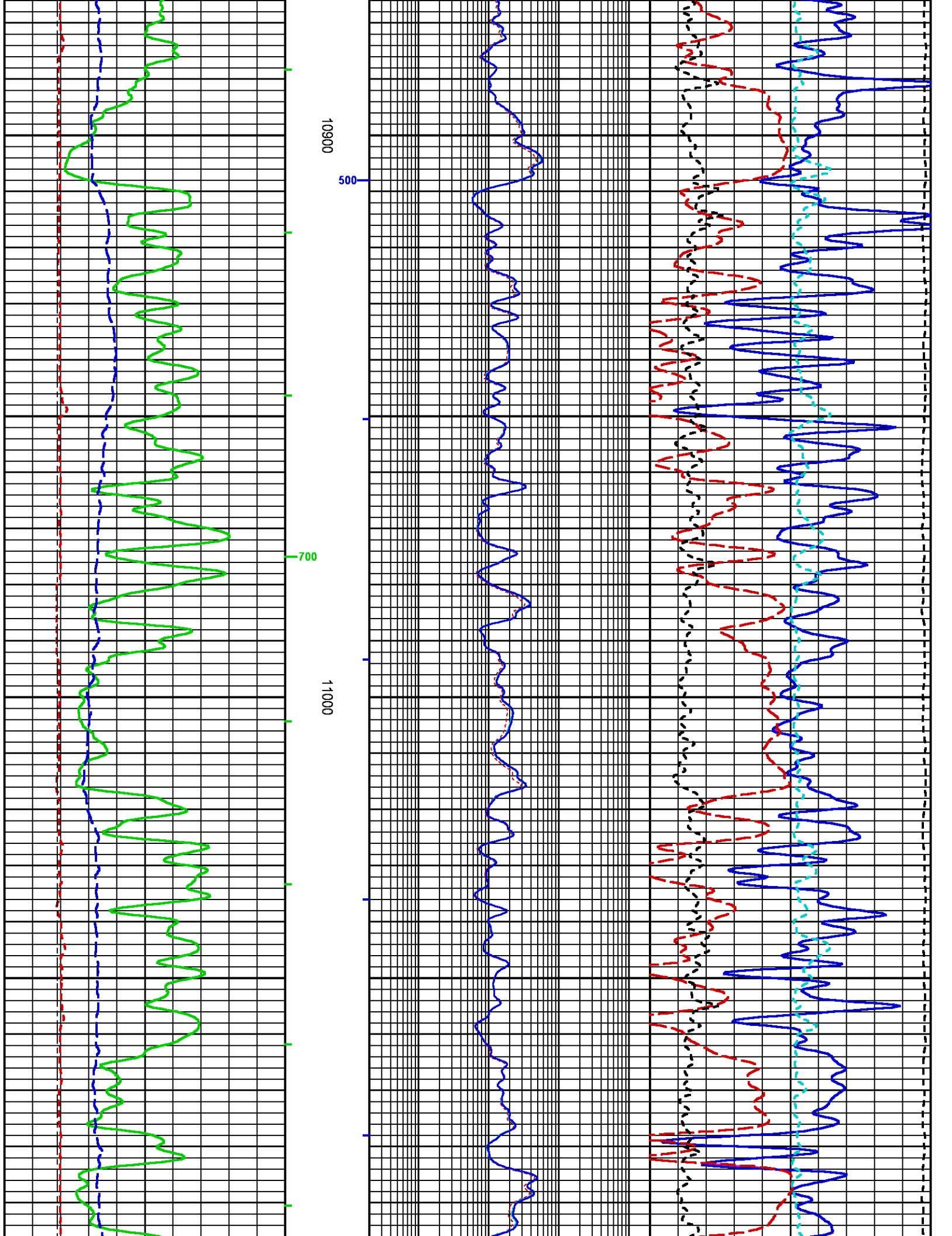
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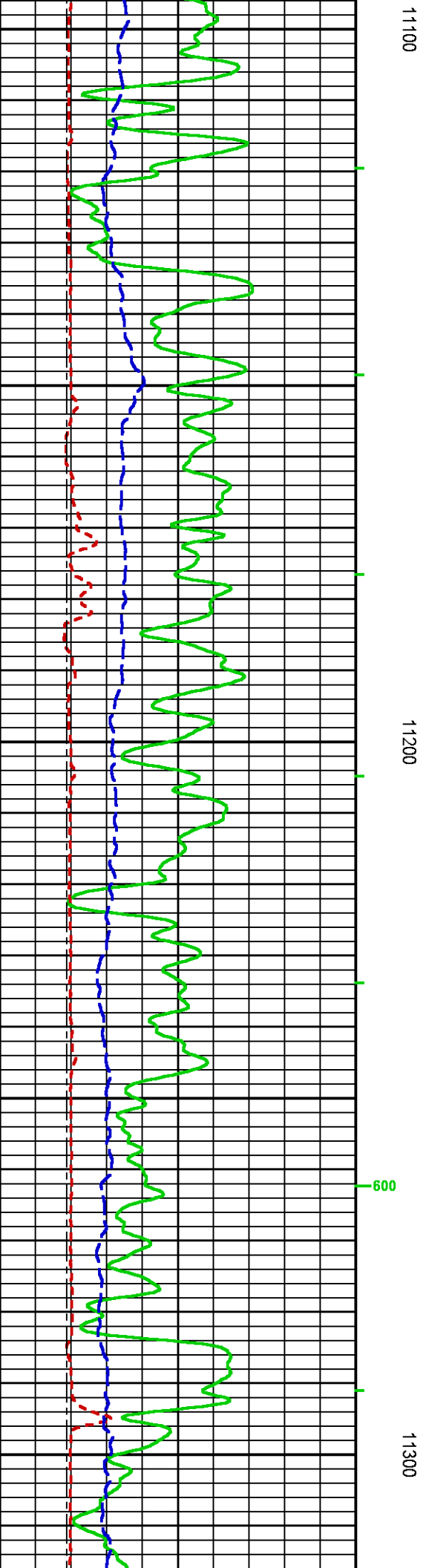
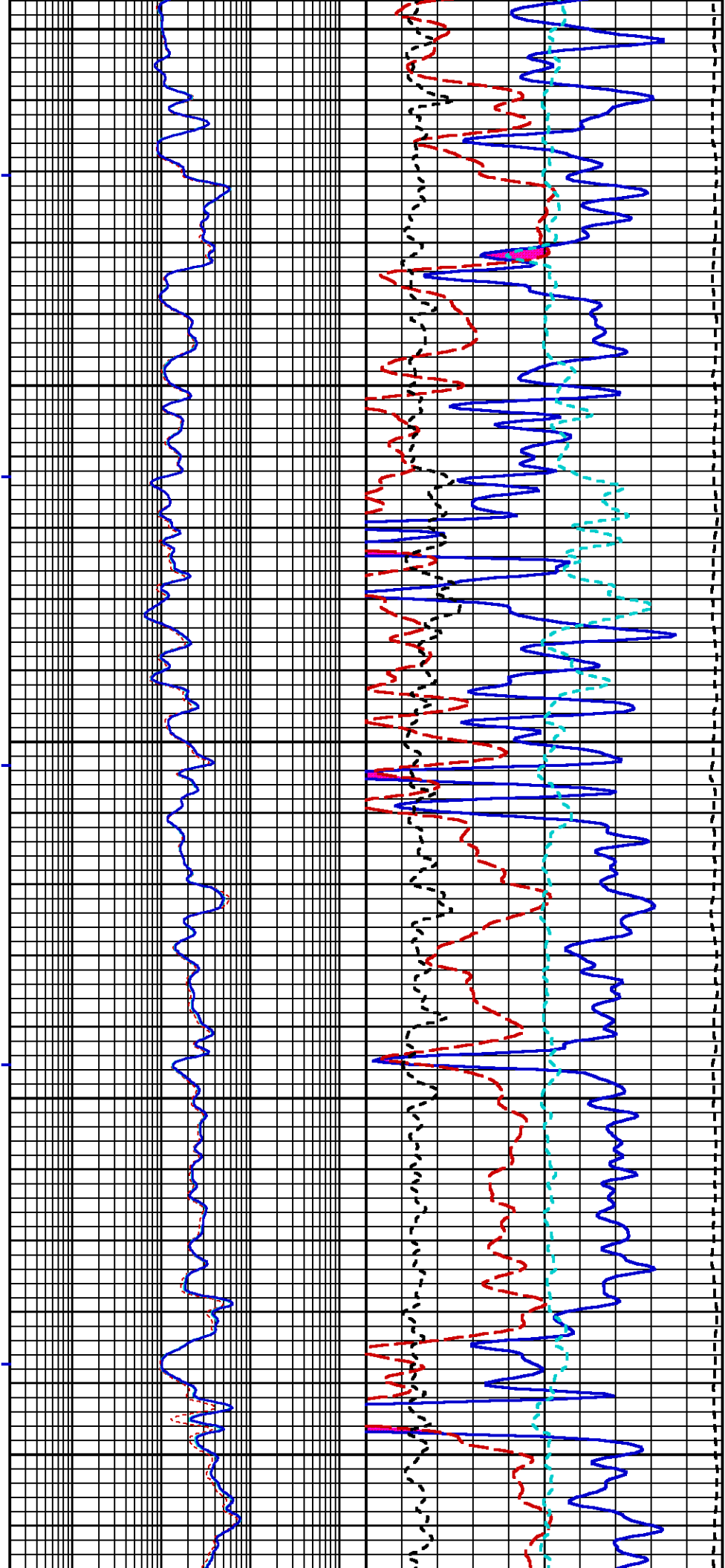
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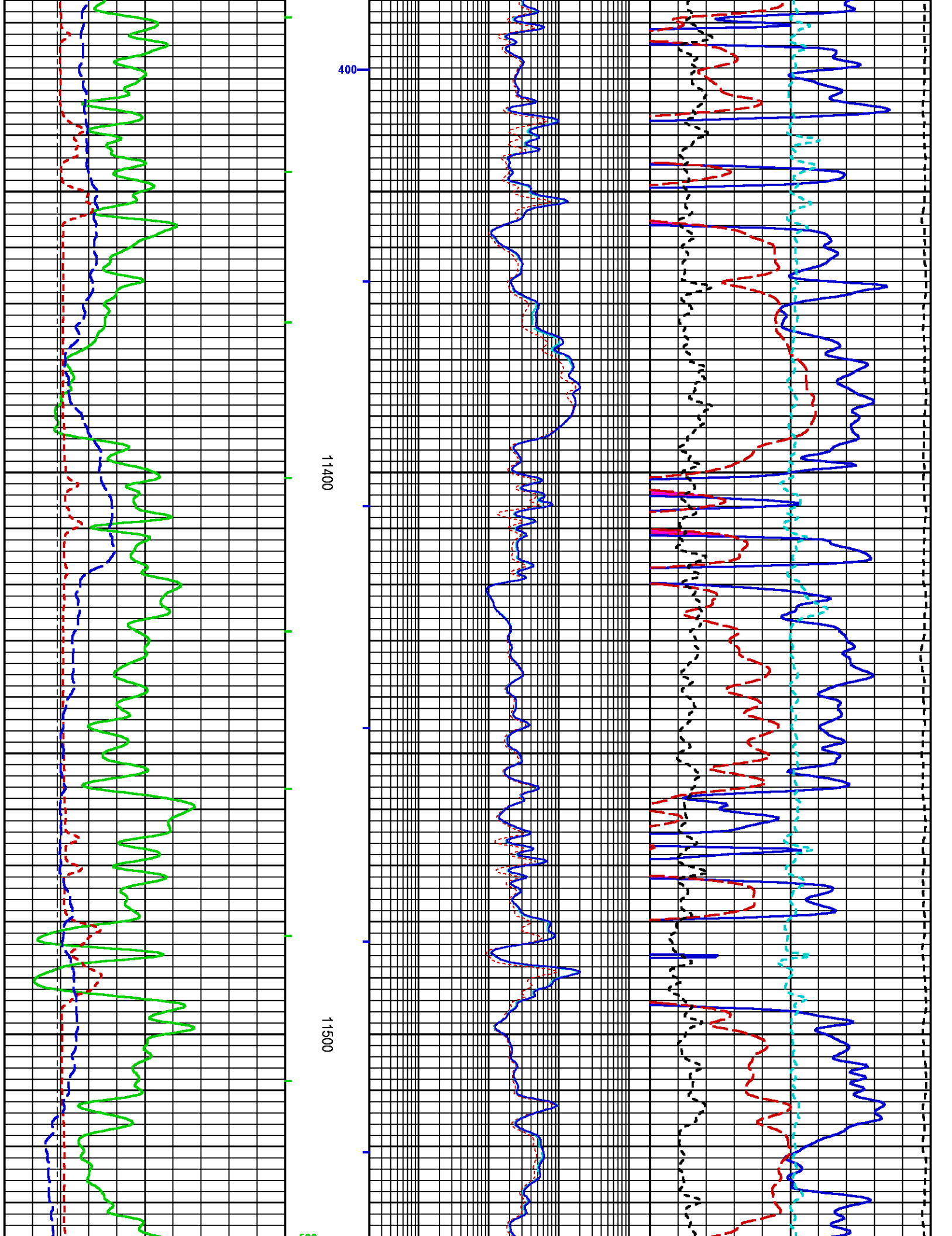


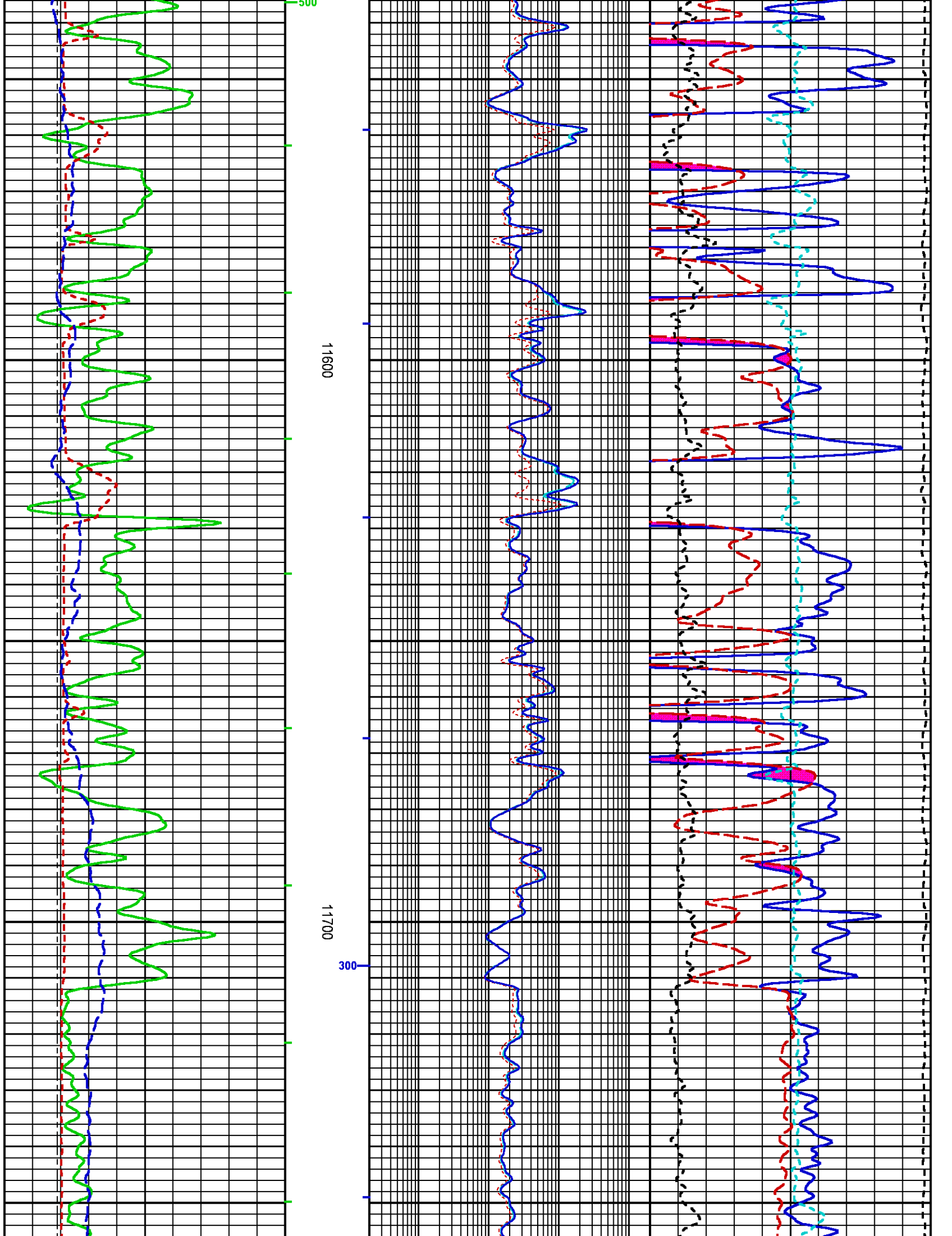


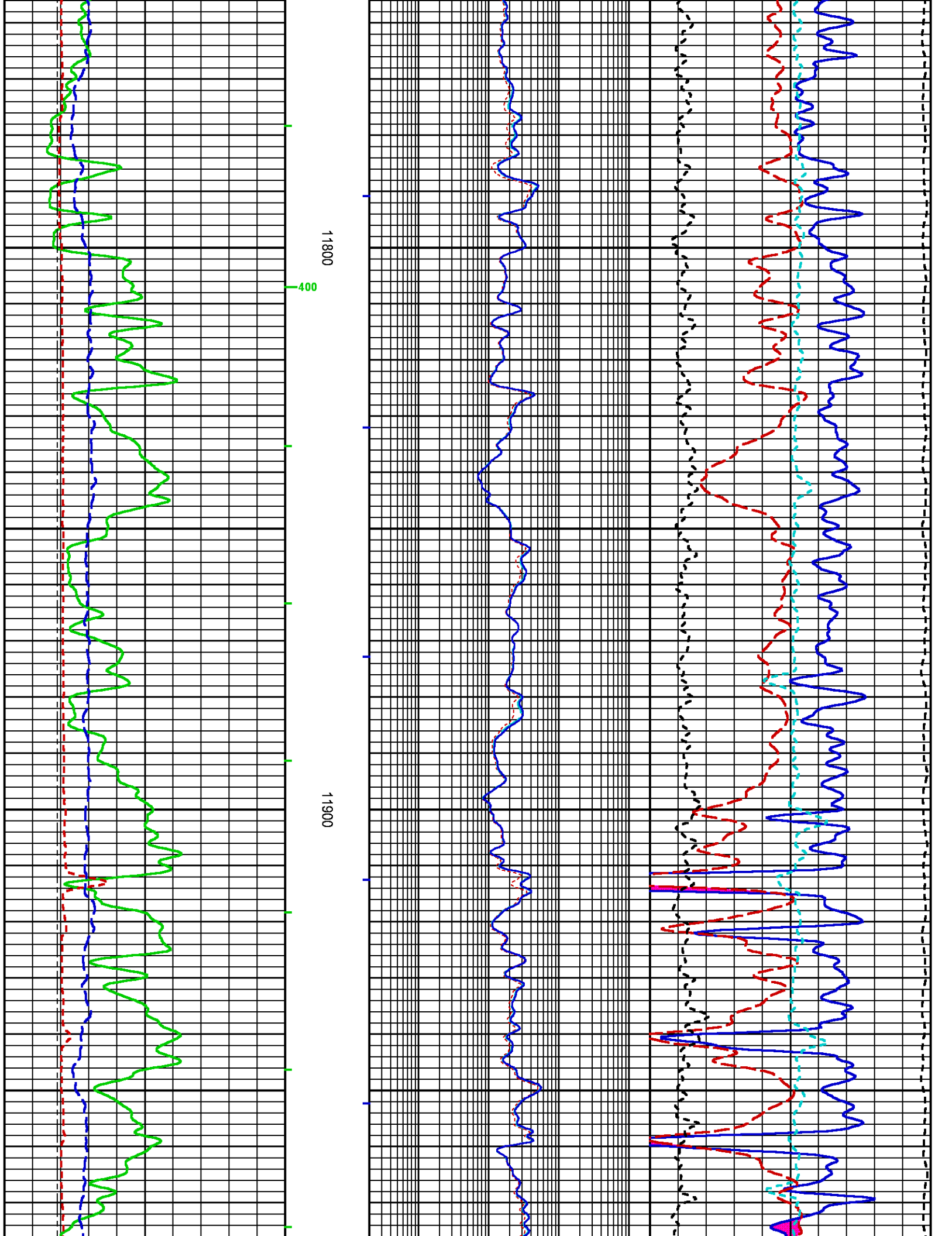


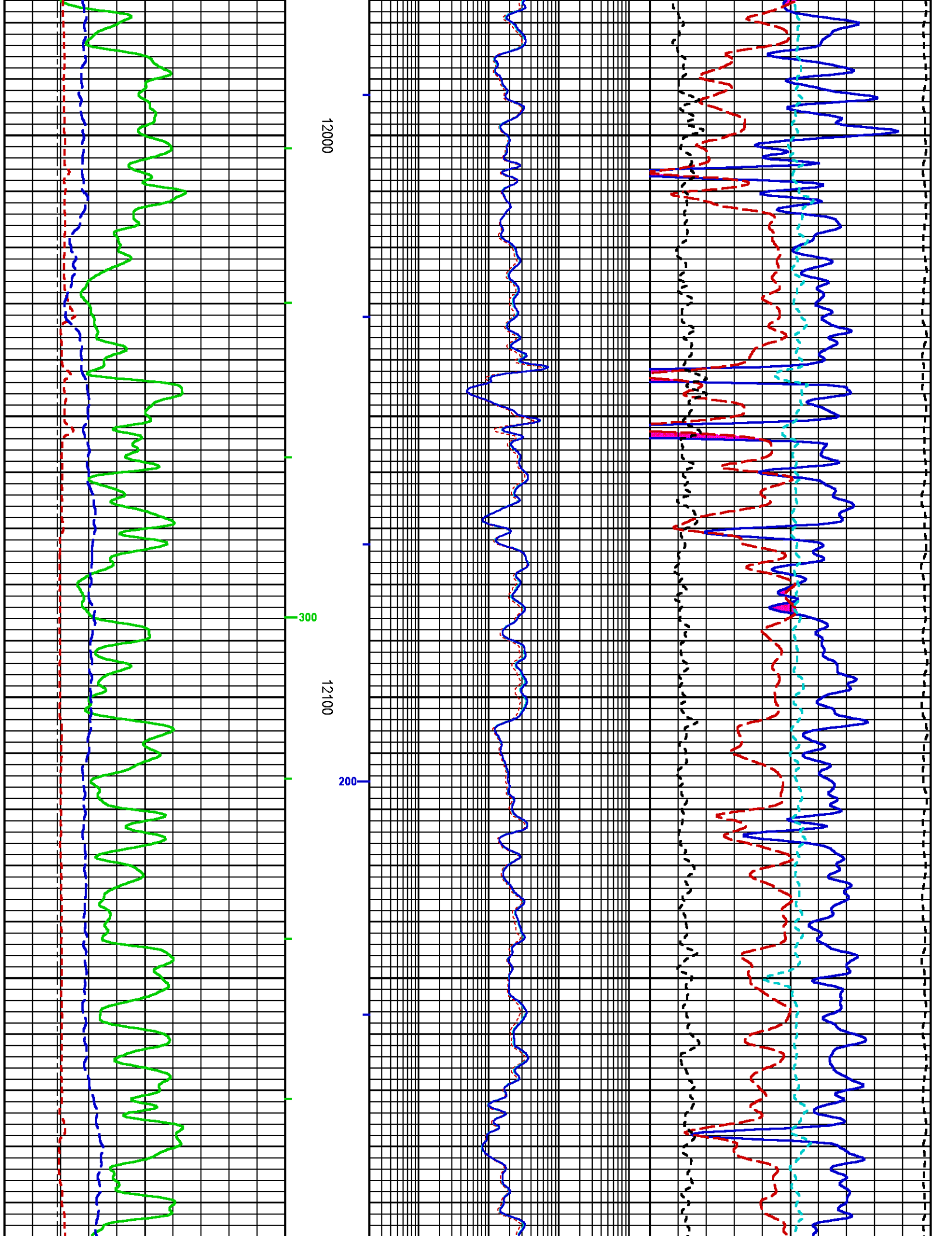


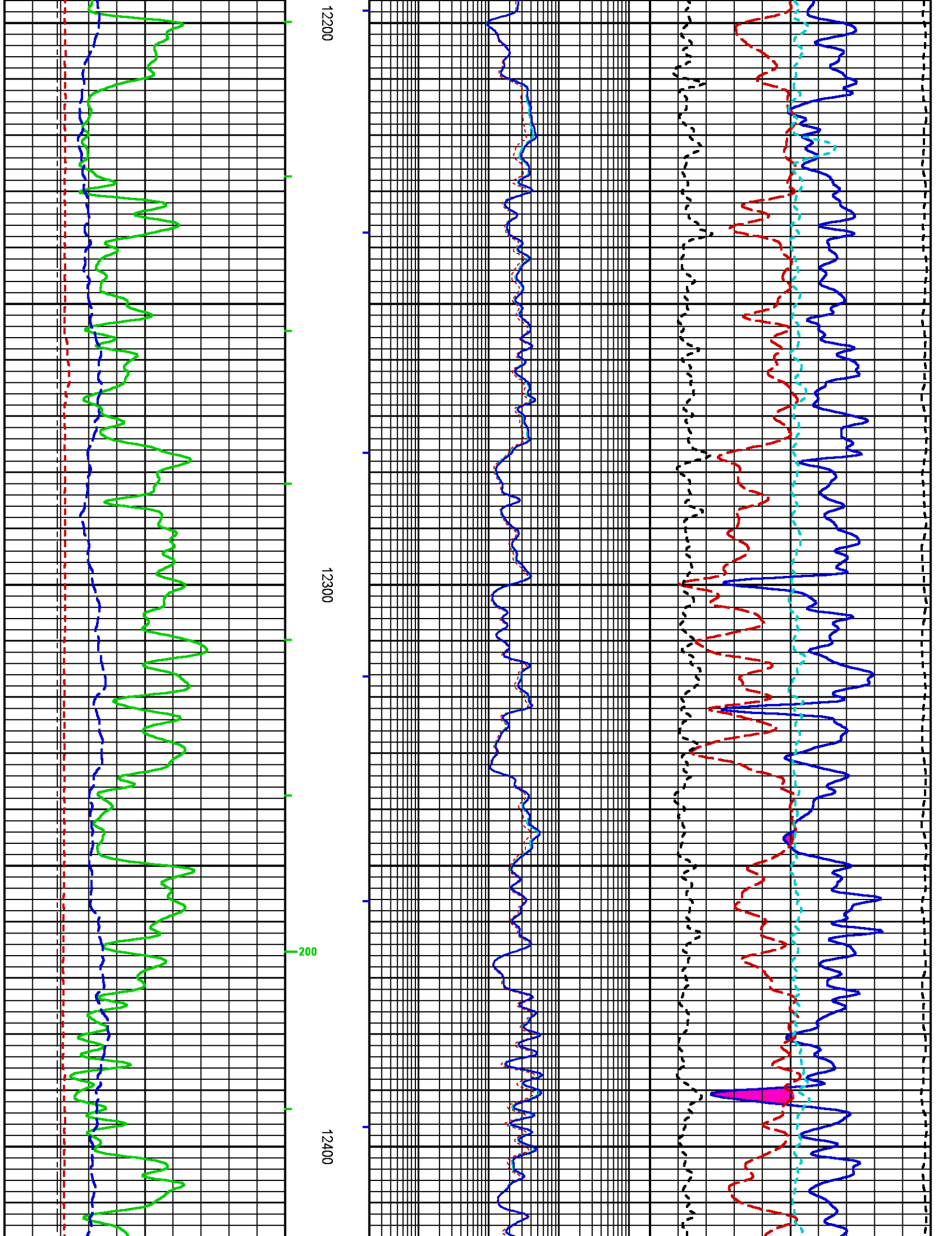


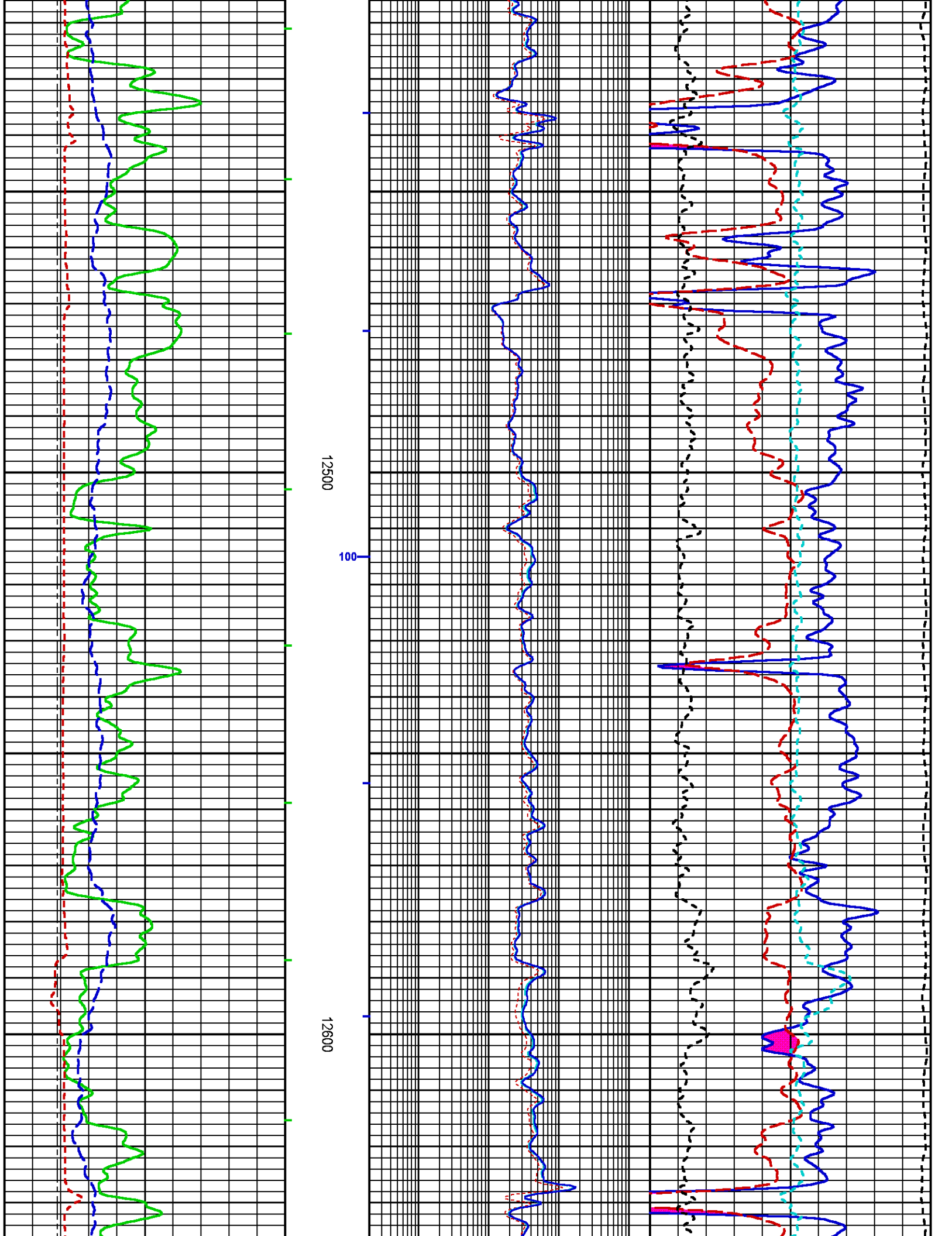


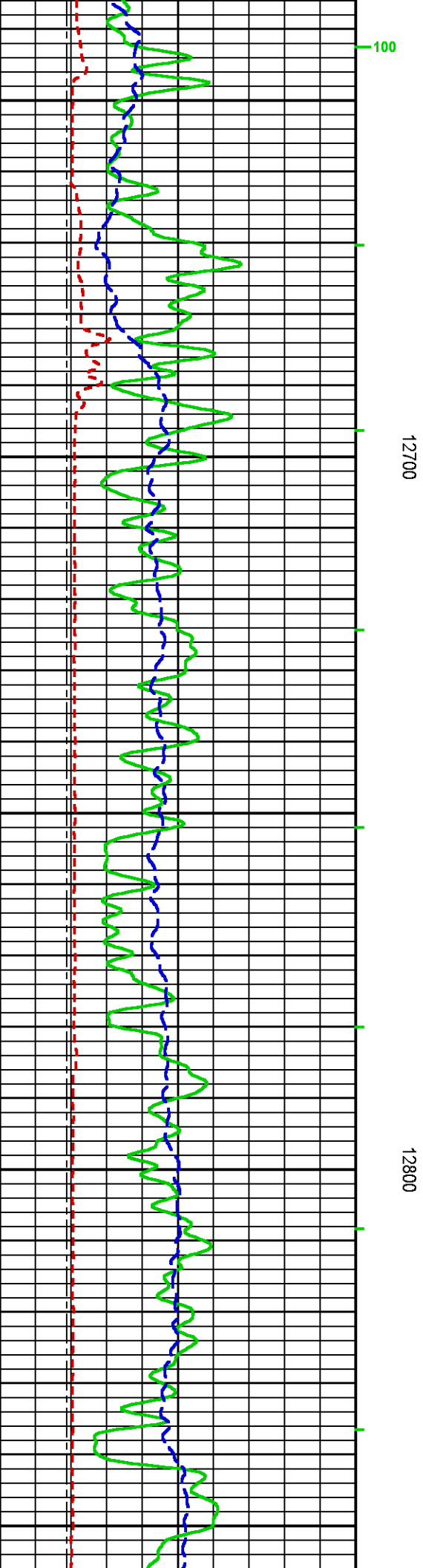
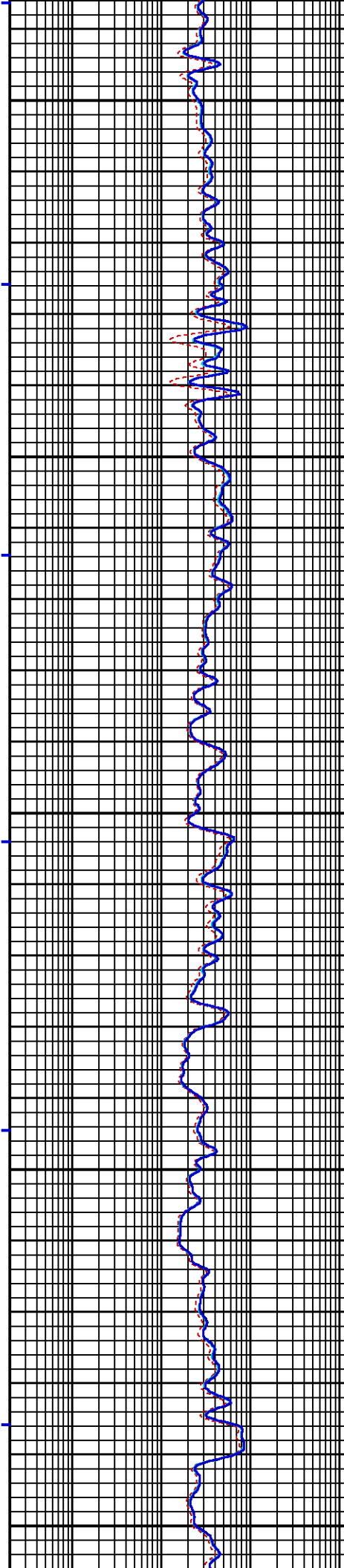
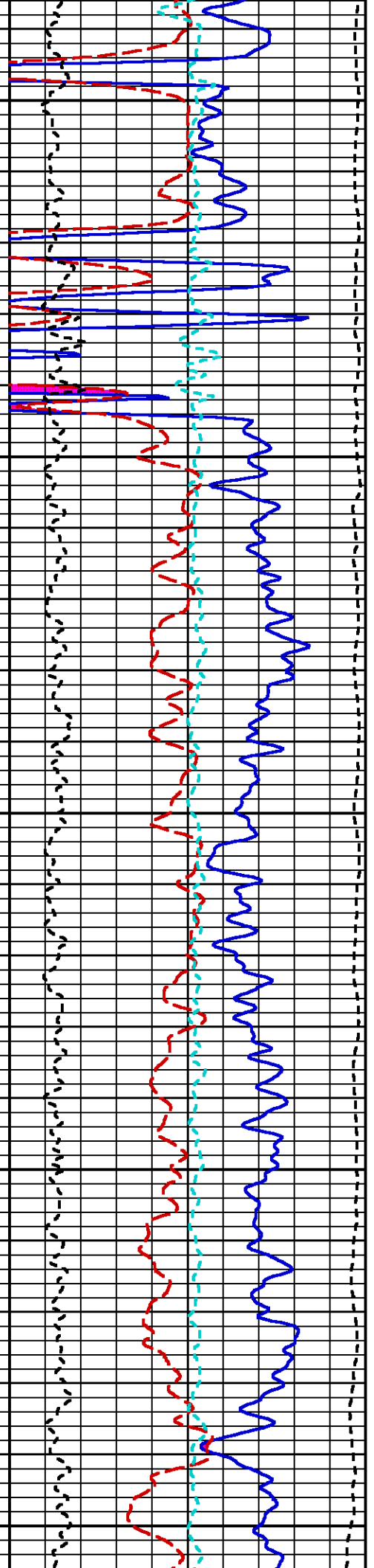


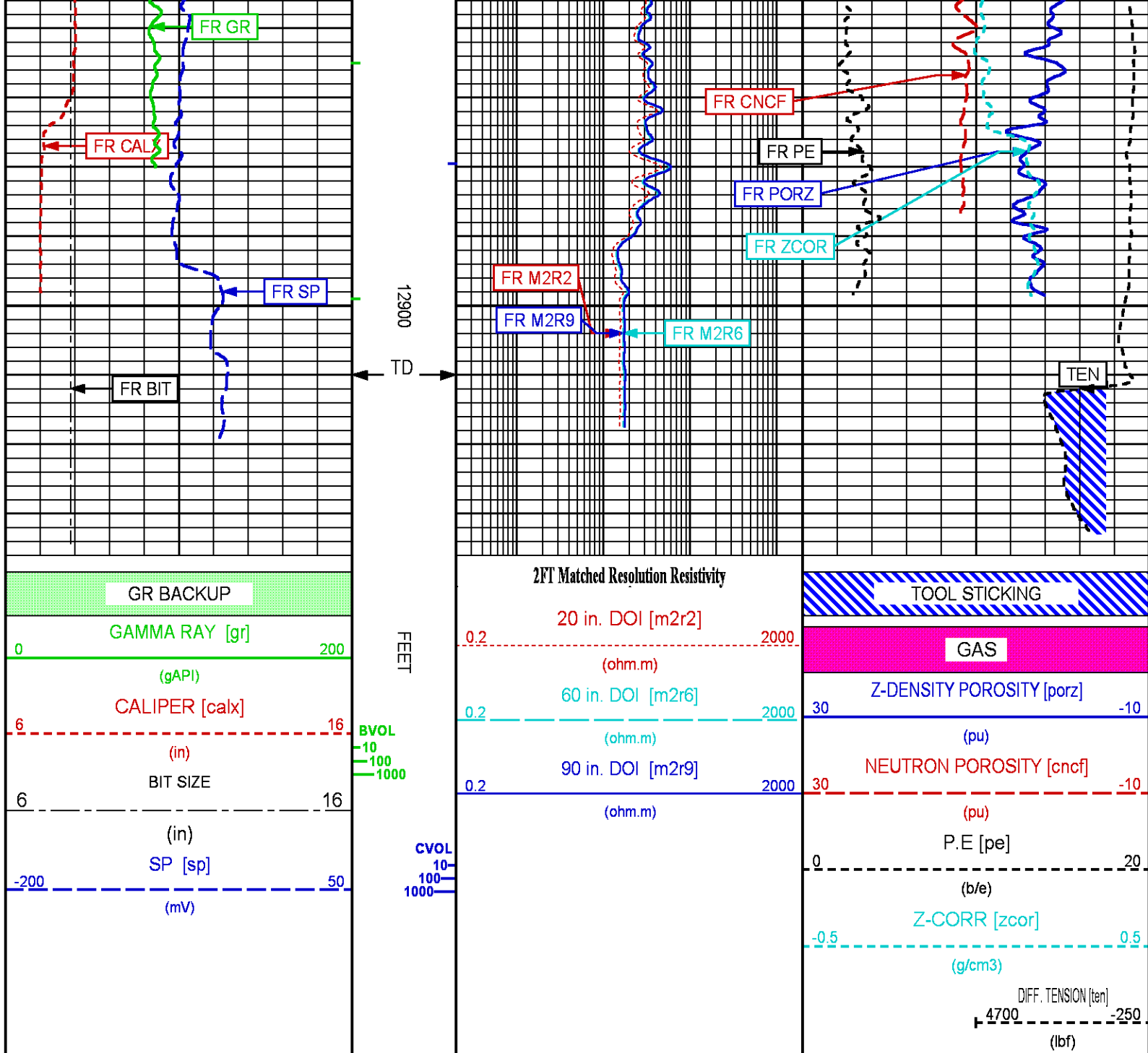












REPEAT LOG

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013

Updates: 1

Plotted: Fri Jun 6 11:27:08 2014

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/WPX_RGU_323_24_198/n777q01.prm
 LOGGING MODE: DEPTH 3850.732 ft DIRECTION: UP
 TOP DEPTH: 3850.732 ft BOTTOM DEPTH: 4254.257 ft

SYMMETRIC FILTER					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
TTRM	FILTER ()	medium (1)		TOP	BOTTOM
	FILTER (.h)	medium (1)		"	"
	FILTER (.i)	medium (1)		"	"
Y AXIS CALIPER	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
CN	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"
	FILTER (.i)	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"
	FILTER (.i)	medium (1)		"	"
ZDL MED RES	FILTER (hrd1*)	medium		"	"
	FILTER (hrd1s*)	medium		"	"
	FILTER (hrd2*)	medium		"	"
	FILTER (hrd2s*)	medium		"	"
ZDL HIGH RES	FILTER (soft*)	medium		"	"
	FILTER (hrd1*)	light		"	"
	FILTER (hrd1s*)	light		"	"
	FILTER (hrd2*)	light		"	"
SP-SPDH	FILTER (hrd2s*)	light		"	"
	FILTER ()	medium (1)		"	"
BOREHOLE & CEMENT					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	4.500	in	TOP	BOTTOM
	CASING THICKNESS	0.000	in	"	"
BIT SIZE	BIT SIZE	8.750	in	"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	133.0	degF	"	"
	MUD SAMPLE RES	0.630	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	77.0	degF	"	"
	at BH REF DEPTH	0.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"
MUD DENSITY	MUD DENSITY	9.70	lbm/gal	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		"	"
	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
	CALIPER/FIXED DIA. (zdbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	8.750	in	"	"
	FIXED DIAMETER (mbh*)	8.750	in	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"
CN PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
2446 CN MATRIX	2446 MATRIX	SANDSTONE		TOP	BOTTOM
CN SALINITY CORRECTION	SALINITY	1600	ppm	"	"
CN TOOL STANDOFF	ENABLE STANDOFF CORR	OFF		"	"
	STANDOFF AMOUNT	0.00	in	"	"
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE BEHIND CSNG	7.875	in	"	"
ZDL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
DENSITY POROSITY	RHOmatrix	2.680	g/cm3	TOP	BOTTOM
	RHOfluid	1.000	g/cm3	"	"
ZDL	DENX TRACKING	ON		"	"
HDIL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTEMP		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	STANDOFF		"	"
	STANDOFF	1.50	in	"	"
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000		"	"

CURVE DESCRIPTION REPORT

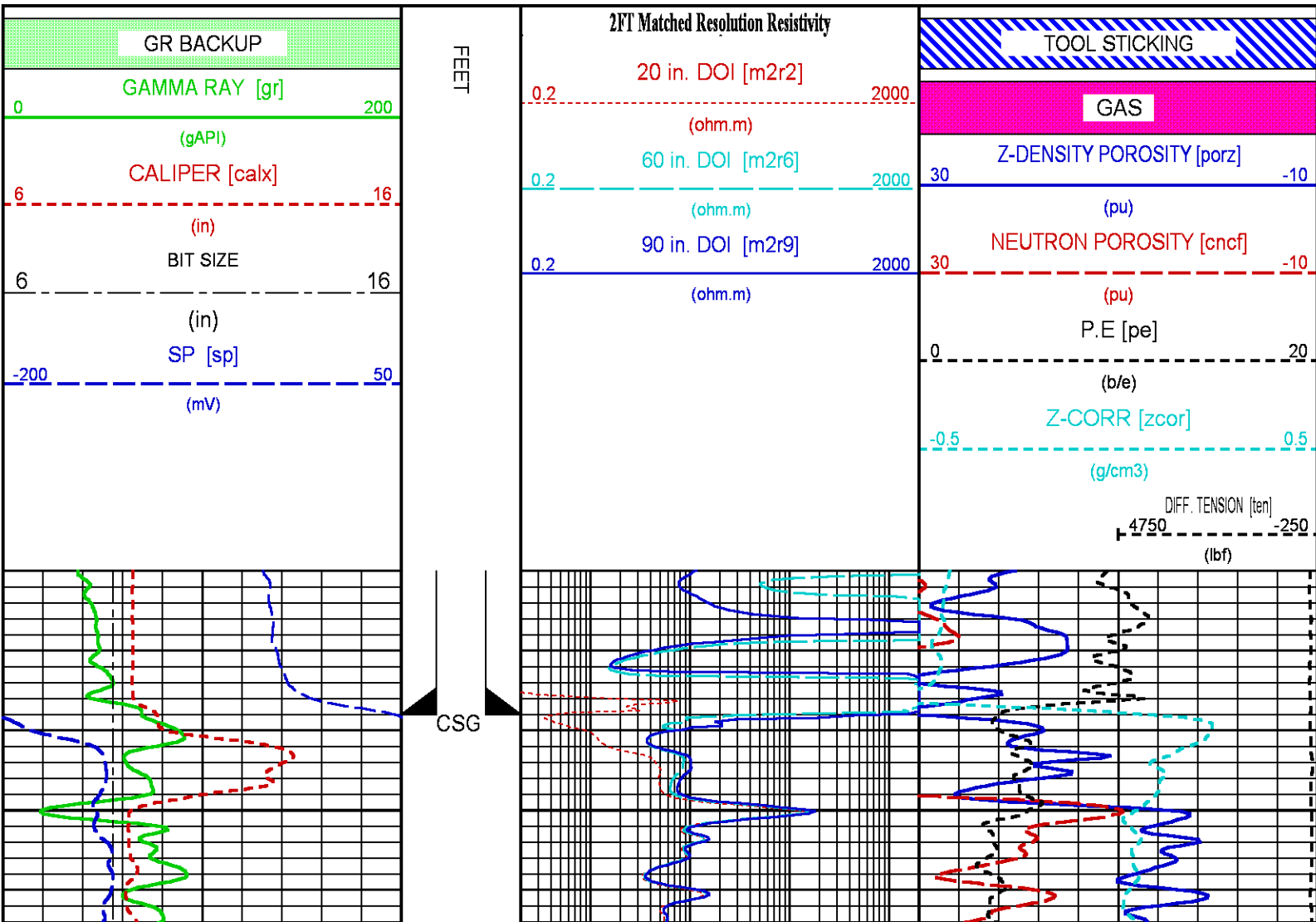
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Jun 6 04:46:13 2014	BIT SIZE
F1:CALX	Jun 6 04:46:13 2014	CALIPER FROM X-AXIS OF XY CALIPER(S)
F1:CNCF	Jun 6 04:46:13 2014	FIELD NORMALIZED COMPENSATED NEUTRON POROSITY
F1:GR	Jun 6 04:46:13 2014	GAMMA RAY
F1:M2R2	Jun 6 04:46:13 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 20-INCH DOI
F1:M2R6	Jun 6 04:46:13 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	Jun 6 04:46:13 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:PE	Jun 6 04:46:13 2014	PHOTO ELECTRIC CROSS-SECTION
F1:PORZ	Jun 6 04:46:13 2014	POROSITY FOR SELECTABLE MATRIX
F1:SP	Jun 6 04:46:13 2014	SPONTANEOUS POTENTIAL
F1:TEN	Jun 6 04:46:13 2014	DIFFERENTIAL TENSION
F1:ZCOR	Jun 6 04:46:13 2014	DENSITY CORRECTION

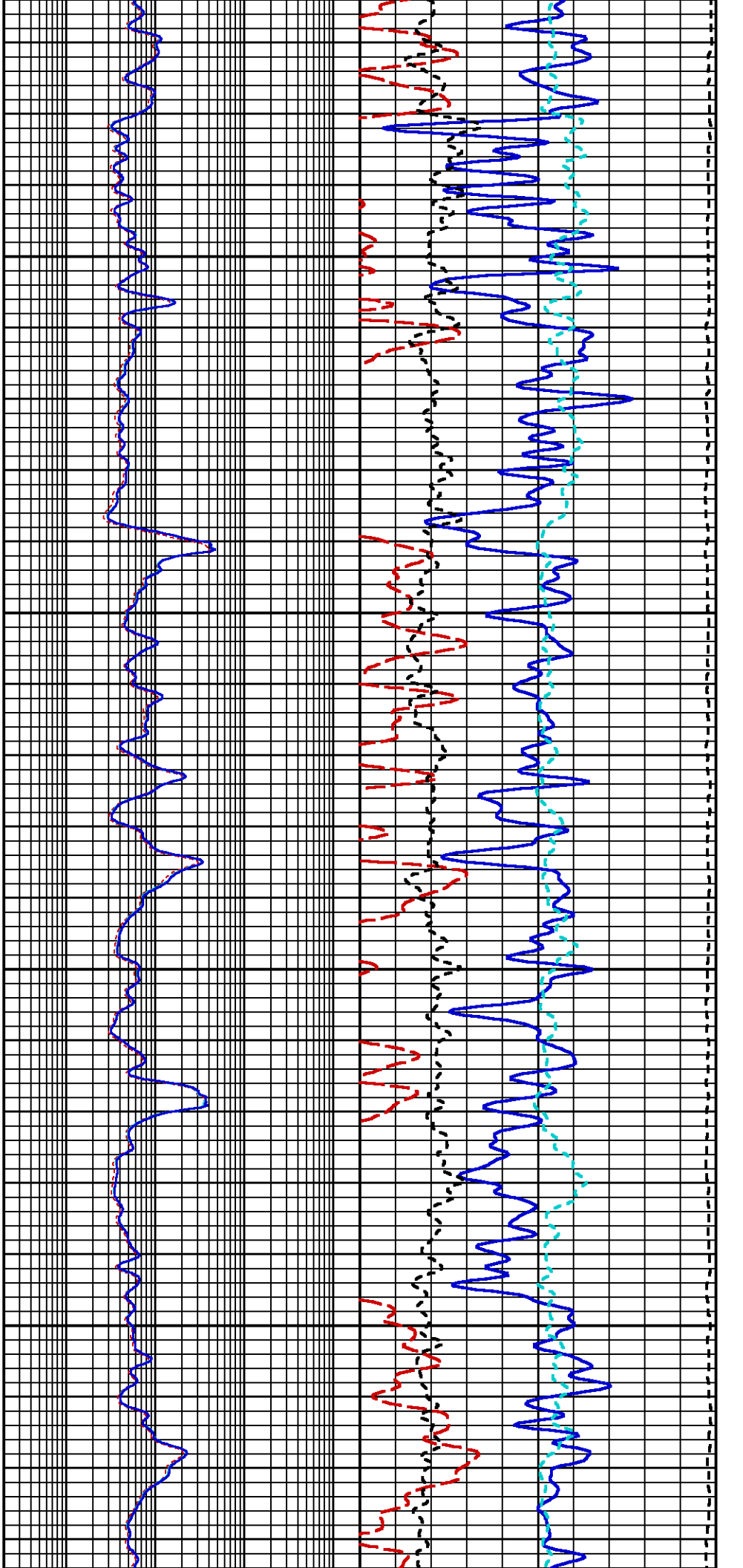
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
BIT	0.00	GR	52.25	M2R9	8.00	SP	14.00
CALX	35.00	M2R2	8.00	PE	34.25	TEN	0.00
CNCF	45.25	M2R6	8.00	PORZ	34.25	ZCOR	34.25

Presentation : cpu6741:/dat1a/WPX_RGU_323_24_198/WPX_rpt.fvpdf [5"/100' Scale]
Plot Interval : 3920 - 4250 Feet

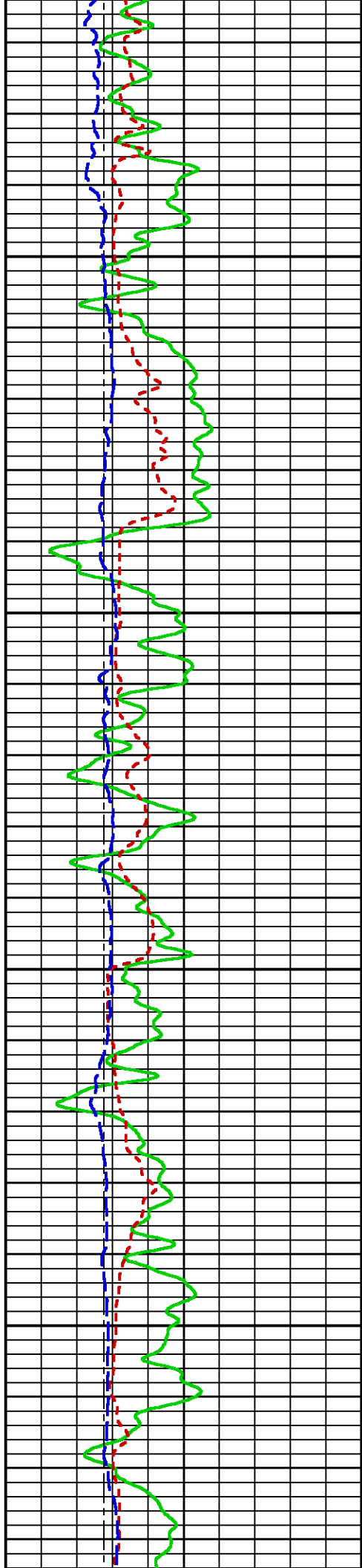
Data File 1 : F1 : cpu6741:/dat1a/WPX_RGU_323_24_198/slam_rpt.xtf
Created On : Jun 6 06:44:54 2014
Company : WPX ENERGY INC
Well : FEDERAL RGU 323-24-198
Field : SULPHUR CREEK
File Interval : 3786.25 - 4262 Feet
OCT : n777q

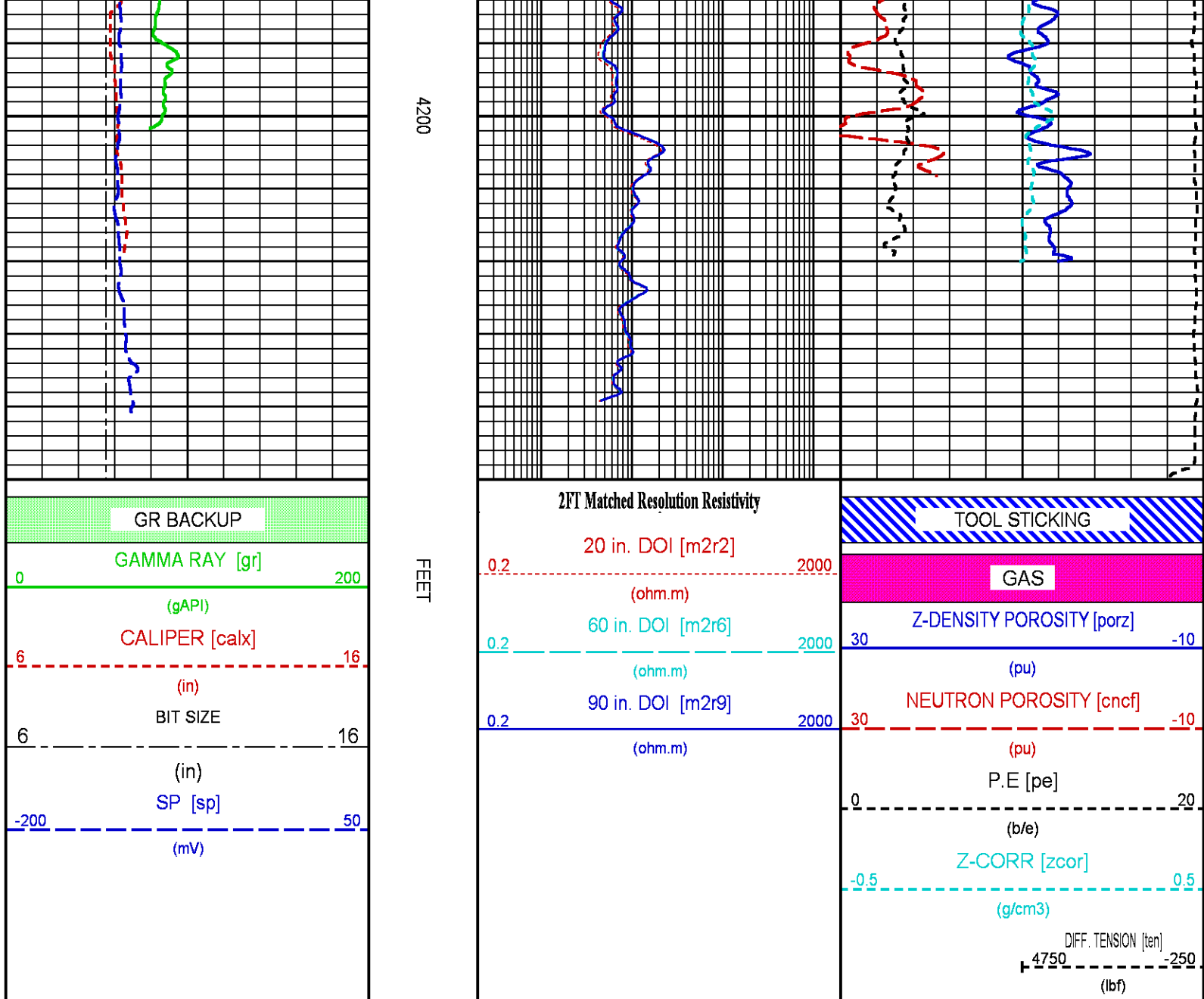




4000

4100





CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/WPX_RGU_323_24_198/n777q_cals.tp1

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 10203000

DATE/TIME PERFORMED: Wed May 28 10:59:19 2014

UNIT #: 3882TD HL6741

CALB JIG #: 4702NK DA_527

	BACKGROUND (cts/s)	CALBTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBTR ON (gAPI)	CALBTR (gAPI)
GR	138.40	1079.56	941.2	0.159	22.06	172.06	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 10203000

DATE/TIME PERFORMED: Wed May 28 11:03:51 2014

UNIT #: 3882TD HL6741

VERI JIG #: 4702NK DA_527

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	135.73	1071.18	0.159	21.63	170.72	149.09
						140.00 160.00

CN PRIMARY CALIBRATION SUMMARY

TOOL #: 2446XA 10342164

DATE/TIME PERFORMED: Mon May 19 11:01:21 2014

UNIT #: 3882TD HL6741

CALIBRATOR #: 2437XB 120052

SOURCE #: 4717XS N__945

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	NOMINAL SSN/LSN	CORRECTION FACTOR	POROSITY (pu)
LSN	634.08	643.88				
SSN	1630.55	1685.52				
RATIO			2.61777	2.75100	1.05090	
					0.97000 1.07000	
CN						21.358

CN PRIMARY VERIFICATION SUMMARY

TOOL #: 2446XA 10342164

DATE/TIME PERFORMED: Mon May 19 11:06:05 2014

UNIT #: 3882TD HL6741

ICE BLOCK #: 4717ND 6036NN

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	2040.20	2145.29				
SSN	4663.04	5142.76				
RATIO			2.39724	1.05090	2.52035	
CN						18.133

CN BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2446XA 10342164 DATE/TIME PERFORMED: Fri Jun 6 04:09:05 2014 DAYS SINCE CAL: 17

UNIT #: 3882TD HL6741 ICE BLOCK #: 4717ND 6036NN

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	2034.93	2139.48				
SSN	4585.24	5048.29				
RATIO			2.35959	1.05090	2.48101	
CN						17.602 16.133 20.133

CN AFTER LOG VERIFICATION SUMMARY

TOOL #: 2446XA 10342164 DATE/TIME PERFORMED: Fri Jun 6 12:10:42 2014 DAYS SINCE CAL: 18

UNIT #: 3882TD HL6741 ICE BLOCK #: 4717ND 6036NN

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	2032.96	2137.28				
SSN	4600.70	5067.00				
RATIO			2.37077	1.05090	2.49255	
CN						17.756 15.602 19.602

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2234XA 10231795 DATE/TIME PERFORMED: Mon May 19 09:52:49 2014

UNIT #: 3882TD HL6741

	SMALL RING	LARGE RING	MULT	ADD	SMALL RING (in)	LARGE RING (in)
CALIPER	1272.0	2179.6	0.00795	-2.32681	7.785	15.000

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2234XA 10231795 DATE/TIME PERFORMED: Fri Jun 6 04:20:17 2014 DAYS SINCE CAL: 17

UNIT #: 3882TD HL6741

	I.D.	MULT	ADD	I.D.
	(in)			
CALIPER	1384.8	0.00795	-2.32681	8.682

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #:	2234XA 10231795	DATE/TIME PERFORMED:	Fri Jun 6 11:44:45 2014	DAYS SINCE CAL:	18
	UNIT #: 3882TD HL6741				

	I.D.	MULT	ADD	I.D.
	(in)			
CALIPER	1438.0	0.00795	-2.32681	9.105
	8.182	9.182		

ZDL PRIMARY CALIBRATION SUMMARY

TOOL:	2234XA 10231795	DATE/TIME PERFORMED:	Mon May 19 10:24:05 2014
UNIT:	3882TD HL6741	CALB BLKS:	2225XA B94287
		CS SRC:	4703NT 2497GW

	SS CS PK (Channel)	LS CS PK (Channel)	SS_BKGD (cps)	LS BKGD (cps)		
	223.9	224.9	1212.9	1577.5		
	220.0 230.0	220.0 230.0				
	SS (cps)	LS (cps)	SHR	DEN (g/cm3)	CORR (g/cm3)	PE (b/e)
MG (LO PE)	13220.4	6508.7	0.619	1.700	0.003	2.160
			0.585 0.665			
AL	7679.1	645.7		2.698	-0.010	
AL + SHIM	10631.3	1150.2		2.619	0.158	
MG + SHIM (HI PE)	6289.1	3033.5	0.245			8.500
			0.210 0.270			
RATIO AL + SHIM/AL	1.38	1.78				
	1.32 1.42	1.64 1.84				
RATIO MG/AL	1.72	10.08				
	1.65 1.78	9.40 10.20				

ZDL BEFORE LOG VERIFICATION SUMMARY

TOOL #:	2234XA 10231795	DATE/TIME PERFORMED:	Fri Jun 6 03:59:47 2014	DAYS SINCE CAL:	17
	UNIT #: 3882TD HL6741				

	TOTAL	CSPK	HV
	(cps)	(Channel)	(V)
I.D.	1575.7	628.2	1844.0

LS	1575.7		226.3		1244.0	
	1477.5	1677.5	220.0	230.0	1100.0	1550.0
SS	1218.4		225.9		1231.2	
	1112.9	1312.9	220.0	230.0	1100.0	1550.0
LV			PAD CURRENT			
(V)			(mA)			
4.9			80.5			
4.8	5.2		50.0	120.0		

ZDL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2234XA 10231795

DATE/TIME PERFORMED: Fri Jun 6 12:01:34 2014

DAYS SINCE CAL: 18

UNIT #: 3882TD HL6741

LS	TOTAL (cps)		CSPK (Channel)		HV (V)	
	1571.3		226.7		1244.0	
SS	1212.8		227.1		1231.8	
	1112.9	1312.9	220.0	230.0	1100.0	1550.0
LV			PAD CURRENT			
(V)			(mA)			
4.9			79.9			
4.8	5.2		50.0	120.0		

HDIL PRIMARY CALIBRATION SUMMARY

TOOL #: 1515MA 10307148

DATE/TIME PERFORMED: Fri May 2 11:10:13 2014

UNIT #: 3882TA HL6680

GRCOND ID & DATE: 37 083096

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-0.003	0.002	0.001	0.001	-0.000	0.002	0.001	-0.002
	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 0 Q	0.003	0.009	0.002	0.000	0.002	-0.000	0.001	0.003
	-1.000 1.000	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 1 R	-0.001	0.001	0.002	0.004	0.004	0.003	0.002	0.001
	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 1 Q	-0.005	-0.007	-0.002	-0.003	0.000	0.001	0.001	0.001
	-1.000 1.000	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 2 R	0.006	0.002	-0.000	-0.003	0.001	0.002	0.005	0.006
	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 2 Q	-0.011	-0.007	-0.000	-0.003	-0.008	-0.005	-0.004	-0.005
	-1.000 1.000	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 3 R	-0.001	-0.001	0.002	0.005	0.003	0.004	0.004	0.002
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 3 Q	-0.007	-0.004	-0.003	-0.001	0.004	0.004	0.002	0.000
	-0.500 0.500	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100

Coil 4 R	-0.012	-0.002	0.002	-0.000	-0.000	0.002	0.002	0.002
	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200
Coil 4 Q	-0.009	0.000	-0.001	-0.006	-0.002	-0.004	0.000	0.002
	-1.000 1.000	-0.400 0.400	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200
Coil 5 R	-0.007	0.002	0.011	0.011	0.007	0.000	-0.005	-0.009
	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400
Coil 5 Q	-0.011	-0.008	-0.001	-0.004	0.005	0.006	0.012	0.008
	-2.000 2.000	-0.800 0.800	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400
Coil 6 R	-0.012	-0.008	0.010	0.009	-0.001	0.010	0.023	0.022
	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000
Coil 6 Q	-0.010	-0.011	0.001	-0.004	-0.037	-0.020	0.012	-0.006
	-5.000 5.000	-2.000 2.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	126.31	125.06	122.56	119.11	114.58	109.02	102.39	94.75
	100.00 150.00	100.00 150.00	98.00 150.00	96.00 140.00	92.00 140.00	87.00 130.00	82.00 120.00	76.00 110.00
Coil 0 P	7.631	24.002	40.080	56.096	72.114	88.123	104.132	120.010
	6.000 9.000	19.000 28.000	32.000 47.000	44.000 66.000	57.000 85.000	70.000 100.000	82.000 120.000	95.000 140.000
Coil 1 M	220.49	218.50	214.60	209.25	202.26	193.75	183.56	171.87
	180.00 270.00	180.00 270.00	170.00 260.00	170.00 250.00	160.00 250.00	160.00 230.00	150.00 220.00	140.00 200.00
Coil 1 P	7.253	22.856	38.170	53.398	68.608	83.812	98.998	114.088
	6.000 9.000	19.000 28.000	32.000 48.000	45.000 67.000	57.000 86.000	70.000 110.000	83.000 120.000	96.000 140.000
Coil 2 M	442.56	438.73	431.03	420.99	407.99	392.68	375.16	355.29
	360.00 540.00	360.00 540.00	350.00 530.00	340.00 510.00	330.00 500.00	310.00 470.00	300.00 440.00	270.00 410.00
Coil 2 P	7.050	22.187	36.998	51.687	66.270	80.802	95.306	109.708
	6.000 9.000	19.000 29.000	32.000 48.000	45.000 67.000	58.000 87.000	71.000 110.000	84.000 130.000	96.000 140.000
Coil 3 M	722.93	716.21	702.97	685.21	661.79	633.79	600.33	562.03
	590.00 880.00	580.00 870.00	570.00 850.00	550.00 830.00	530.00 800.00	500.00 780.00	470.00 710.00	440.00 650.00
Coil 3 P	7.523	23.621	39.421	55.139	70.824	86.484	102.162	117.737
	6.000 10.000	20.000 29.000	33.000 49.000	46.000 69.000	59.000 89.000	72.000 110.000	85.000 130.000	98.000 150.000
Coil 4 M	1130.2	1118.8	1095.8	1064.3	1022.7	972.3	912.2	843.5
	900.0 1400.0	900.0 1300.0	900.0 1300.0	850.0 1300.0	800.0 1200.0	800.0 1200.0	750.0 1100.0	700.0 1000.0
Coil 4 P	7.961	24.914	41.595	58.185	74.773	91.320	107.846	124.177
	6.000 10.000	20.000 30.000	33.000 50.000	46.000 70.000	60.000 90.000	73.000 110.000	86.000 130.000	99.000 150.000
Coil 5 M	2286.1	2263.9	2220.6	2162.1	2086.0	1995.2	1887.9	1765.2
	1900.0 2800.0	1800.0 2800.0	1800.0 2700.0	1800.0 2600.0	1700.0 2500.0	1600.0 2400.0	1500.0 2200.0	1400.0 2100.0
Coil 5 P	7.878	24.708	41.229	57.641	74.024	90.368	106.746	123.014
	6.000 10.000	20.000 31.000	34.000 51.000	48.000 72.000	62.000 93.000	76.000 110.000	89.000 130.000	100.000 150.000
Coil 6 M	6066.5	5978.4	5809.0	5582.1	5295.2	4966.9	4600.5	4198.0
	4700.0 7100.0	4700.0 7000.0	4600.0 6900.0	4400.0 6800.0	4200.0 6400.0	4000.0 6000.0	3700.0 5600.0	3400.0 5100.0
Coil 6 P	8.636	27.203	45.321	63.207	80.869	98.394	115.696	132.767
	7.000 10.000	22.000 32.000	36.000 54.000	51.000 76.000	65.000 98.000	80.000 120.000	94.000 140.000	110.000 160.000

AM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	503	-47	-102	-117	-125	-131	-135	-138
	-200 800	-500 200	-600 100	-600 50	-500 20	-500 20	-500 20	-500 20
Coil 0 Q	869	342	180	100	47	6	-29	-61
	-3000 6000	-1000 2000	-1000 1200	-500 900	-400 700	-400 600	-400 500	-400 400
Coil 1 R	576	88	24	2	-9	-15	-19	-22
	450 650	20 130	-30 60	-50 40	-55 30	-60 20	-60 10	-60 10
Coil 1 Q	1067	438	275	199	153	122	99	82
	0 2500	0 900	0 600	0 450	0 350	0 300	0 250	0 250
Coil 2 R	183.5	26.5	7.4	1.3	-1.5	-3.4	-4.5	-5.3
	140.0 230.0	0.0 51.0	-10.0 25.0	-15.0 15.0	-16.0 10.0	-16.0 7.0	-16.0 5.0	-16.0 3.0

Coil 2 Q	451.9	178.1	112.4	83.4	67.5	57.8	51.0	46.3
	-200.0 1000.0	0.0 350.0	0.0 220.0	0.0 160.0	0.0 130.0	0.0 110.0	0.0 100.0	0.0 90.0
Coil 3 R	45.0	6.4	1.5	-0.2	-1.1	-1.5	-2.0	-2.4
	37.0 62.0	0.0 12.0	-3.0 6.0	-4.0 4.0	-5.0 2.0	-5.0 1.0	-6.0 1.0	-6.0 1.0
Coil 3 Q	59.6	29.3	22.1	19.8	19.2	19.5	20.4	20.9
	-140.0 280.0	-40.0 100.0	-20.0 70.0	-10.0 60.0	-10.0 50.0	-10.0 50.0	-10.0 50.0	-10.0 50.0
Coil 4 R	10.68	0.83	-0.59	-0.85	-1.05	-1.28	-1.28	-1.54
	2.00 18.00	-3.00 6.00	-3.50 3.00	-3.90 2.00	-4.20 2.00	-4.50 2.00	-4.70 2.00	-5.00 2.00
Coil 4 Q	15.59	10.29	10.09	11.27	12.69	14.48	16.57	18.75
	-100.00 100.00	-30.00 50.00	-20.00 40.00	-10.00 40.00	-10.00 40.00	-10.00 45.00	-10.00 50.00	-10.00 60.00
Coil 5 R	0.85	-0.54	-0.89	-0.86	-0.95	-1.19	-1.18	-1.22
	-2.00 5.80	-3.20 2.40	-4.50 3.10	-4.70 3.20	-4.80 3.20	-5.00 3.30	-5.20 3.40	-5.40 3.50
Coil 5 Q	9.68	6.70	7.73	9.32	11.10	13.19	15.33	17.44
	-60.00 70.00	-20.00 30.00	-20.00 30.00	-20.00 35.00	-20.00 45.00	-20.00 50.00	-20.00 60.00	-30.00 70.00
Coil 6 R	-2.34	-0.98	-0.95	-0.76	-0.80	-0.88	-0.77	-0.88
	-4.80 1.00	-5.70 3.80	-6.50 4.90	-6.90 5.40	-7.30 5.80	-7.50 6.00	-7.70 6.10	-7.90 6.30
Coil 6 Q	3.71	3.83	5.63	7.67	9.54	11.59	13.75	15.72
	-30.00 30.00	-20.00 25.00	-20.00 35.00	-30.00 50.00	-35.00 60.00	-40.00 70.00	-50.00 80.00	-60.00 100.00

MM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	0.996	0.994	0.989	0.989	0.987	0.987	0.985	0.988
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 0 P	0.086	0.199	0.277	0.269	0.241	0.170	0.149	0.083
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000
Coil 1 M	0.985	0.984	0.980	0.979	0.977	0.976	0.974	0.975
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 1 P	0.095	0.245	0.359	0.364	0.386	0.333	0.324	0.245
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000
Coil 2 M	1.001	0.998	0.997	0.997	0.995	0.995	0.994	0.994
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 2 P	0.029	0.053	0.089	0.120	0.146	0.076	0.141	0.062
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000
Coil 3 M	0.995	0.994	0.993	0.993	0.991	0.992	0.991	0.993
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 3 P	0.043	0.044	0.095	0.106	0.125	0.030	0.055	0.050
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000
Coil 4 M	1.004	1.004	1.003	1.003	1.001	1.001	0.999	1.000
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 4 P	0.033	0.073	0.114	0.149	0.177	0.128	0.183	0.064
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000
Coil 5 M	1.016	1.016	1.016	1.015	1.013	1.015	1.012	1.013
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 5 P	0.016	0.001	0.088	0.098	0.111	-0.007	0.144	0.011
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000
Coil 6 M	1.019	1.021	1.019	1.018	1.017	1.024	1.023	1.023
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 6 P	0.016	0.151	0.100	0.176	0.060	-0.038	0.036	-0.183
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000

PARMS	TCID 0	TCID 1	Cal Temp (degF)	T Factor
IDs	1.277	0.880	68.2	1.04

HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1515MA 10307148

DATE/TIME PERFORMED: Fri Jun 6 05:43:03 2014

DAYS SINCE CAL: 34

UNIT #: 3882TD HL6741

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.002 -0.200 0.200	0.002 -0.100 0.100	0.000 -0.100 0.100	-0.001 -0.100 0.100	-0.002 -0.100 0.100	0.001 -0.100 0.100	-0.000 -0.100 0.100	-0.004 -0.100 0.100
Coil 0 Q	0.003 -1.000 1.000	0.009 -0.200 0.200	0.003 -0.100 0.100	0.001 -0.100 0.100	0.003 -0.100 0.100	-0.000 -0.100 0.100	-0.000 -0.100 0.100	0.002 -0.100 0.100
Coil 1 R	0.001 -0.200 0.200	0.002 -0.100 0.100	-0.001 -0.100 0.100	0.001 -0.100 0.100	0.003 -0.100 0.100	0.003 -0.100 0.100	0.001 -0.100 0.100	-0.003 -0.100 0.100
Coil 1 Q	-0.004 -1.000 1.000	-0.005 -0.200 0.200	-0.002 -0.100 0.100	-0.002 -0.100 0.100	-0.002 -0.100 0.100	-0.001 -0.100 0.100	0.004 -0.100 0.100	0.006 -0.100 0.100
Coil 2 R	0.002 -0.200 0.200	0.002 -0.100 0.100	-0.001 -0.100 0.100	-0.002 -0.100 0.100	-0.000 -0.100 0.100	-0.001 -0.100 0.100	0.001 -0.100 0.100	0.005 -0.100 0.100
Coil 2 Q	-0.009 -1.000 1.000	-0.005 -0.200 0.200	0.002 -0.100 0.100	0.002 -0.100 0.100	-0.005 -0.100 0.100	-0.003 -0.100 0.100	-0.006 -0.100 0.100	-0.007 -0.100 0.100
Coil 3 R	-0.005 -0.100 0.100	-0.003 -0.100 0.100	0.005 -0.100 0.100	0.002 -0.100 0.100	0.002 -0.100 0.100	0.000 -0.100 0.100	-0.005 -0.100 0.100	0.000 -0.100 0.100
Coil 3 Q	-0.003 -0.500 0.500	-0.007 -0.200 0.200	-0.002 -0.100 0.100	0.001 -0.100 0.100	-0.000 -0.100 0.100	0.004 -0.100 0.100	-0.000 -0.100 0.100	-0.002 -0.100 0.100
Coil 4 R	-0.008 -0.200 0.200	0.002 -0.200 0.200	-0.003 -0.200 0.200	-0.006 -0.200 0.200	-0.004 -0.200 0.200	-0.003 -0.200 0.200	-0.001 -0.200 0.200	-0.002 -0.200 0.200
Coil 4 Q	-0.007 -1.000 1.000	0.002 -0.400 0.400	-0.001 -0.200 0.200	0.004 -0.200 0.200	0.004 -0.200 0.200	0.001 -0.200 0.200	-0.001 -0.200 0.200	-0.001 -0.200 0.200
Coil 5 R	-0.007 -0.400 0.400	0.003 -0.400 0.400	0.013 -0.400 0.400	0.008 -0.400 0.400	-0.004 -0.400 0.400	-0.015 -0.400 0.400	-0.008 -0.400 0.400	-0.003 -0.400 0.400
Coil 5 Q	-0.004 -2.000 2.000	0.002 -0.800 0.800	-0.015 -0.400 0.400	0.014 -0.400 0.400	0.010 -0.400 0.400	0.012 -0.400 0.400	0.002 -0.400 0.400	-0.003 -0.400 0.400
Coil 6 R	0.009 -1.000 1.000	0.004 -1.000 1.000	-0.015 -1.000 1.000	-0.003 -1.000 1.000	0.001 -1.000 1.000	-0.015 -1.000 1.000	0.020 -1.000 1.000	0.015 -1.000 1.000
Coil 6 Q	-0.017 -5.000 5.000	0.004 -2.000 2.000	-0.000 -1.000 1.000	-0.020 -1.000 1.000	-0.038 -1.000 1.000	-0.010 -1.000 1.000	-0.013 -1.000 1.000	0.004 -1.000 1.000

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	127.09 100.00 150.00	125.82 100.00 150.00	123.38 98.00 150.00	119.90 96.00 140.00	115.40 92.00 140.00	109.70 87.00 130.00	103.09 82.00 120.00	95.18 76.00 110.00
Coil 0 P	7.627 6.000 9.000	24.044 19.000 28.000	40.167 32.000 47.000	56.255 44.000 66.000	72.355 57.000 85.000	88.517 70.000 100.000	104.607 82.000 120.000	120.669 95.000 140.000
Coil 1 M	222.66 180.00 270.00	220.61 180.00 270.00	216.75 170.00 260.00	211.26 170.00 250.00	204.21 160.00 250.00	195.39 160.00 230.00	185.07 150.00 220.00	172.88 140.00 200.00
Coil 1 P	7.262 6.000 9.000	22.932 19.000 28.000	38.306 32.000 48.000	53.632 45.000 67.000	68.927 57.000 86.000	84.292 70.000 110.000	99.530 83.000 120.000	114.864 96.000 140.000
Coil 2 M	444.68 360.00 540.00	440.67 360.00 540.00	433.12 350.00 530.00	422.74 340.00 510.00	409.72 330.00 500.00	394.01 310.00 470.00	376.42 300.00 440.00	355.97 270.00 410.00
Coil 2 P	7.057 6.000 9.000	22.290 19.000 29.000	37.187 32.000 48.000	51.972 45.000 67.000	66.667 58.000 87.000	81.333 71.000 110.000	95.930 84.000 130.000	110.623 96.000 140.000
Coil 3 M	723.25 590.00 880.00	716.39 580.00 870.00	703.47 570.00 850.00	685.39 550.00 830.00	662.00 530.00 800.00	633.35 500.00 780.00	599.82 470.00 710.00	560.20 440.00 650.00
Coil 3 P	7.542 6.000 10.000	23.739 20.000 29.000	39.633 33.000 49.000	55.481 46.000 69.000	71.282 59.000 89.000	87.128 72.000 110.000	102.946 85.000 130.000	118.783 98.000 150.000
Coil 4 M	1127.6 900.00 1350.00	1116.0 900.00 1350.00	1093.4 880.00 1320.00	1061.4 860.00 1300.00	1020.3 840.00 1280.00	969.0 820.00 1260.00	908.9 800.00 1240.00	839.1 780.00 1220.00

Coil 4 P	7.969	24.998	41.749	58.444	75.114	91.819	108.437	125.031
	6.000 10.000	20.000 30.000	33.000 50.000	46.000 70.000	60.000 90.000	73.000 110.000	86.000 130.000	99.000 150.000
Coil 5 M	2291.7	2269.0	2226.4	2166.8	2090.4	1997.1	1889.1	1762.2
	1900.0 2800.0	1800.0 2800.0	1800.0 2700.0	1800.0 2600.0	1700.0 2500.0	1600.0 2400.0	1500.0 2200.0	1400.0 2100.0
Coil 5 P	7.910	24.857	41.487	58.049	74.562	91.116	107.608	124.187
	6.000 10.000	20.000 31.000	34.000 51.000	48.000 72.000	62.000 93.000	76.000 110.000	89.000 130.000	100.000 150.000
Coil 6 M	6099.1	6007.4	5836.6	5603.5	5315.0	4977.8	4605.4	4192.5
	4700.0 7100.0	4700.0 7000.0	4600.0 6900.0	4400.0 6800.0	4200.0 6400.0	4000.0 6000.0	3700.0 5600.0	3400.0 5100.0
Coil 6 P	8.674	27.371	45.601	63.617	81.421	99.147	116.550	133.853
	7.000 10.000	22.000 32.000	36.000 54.000	51.000 76.000	65.000 98.000	80.000 120.000	94.000 140.000	110.000 160.000

HDIL AFTER LOG VERIFICATION SUMMARY

TOOL #:	1515MA 10307148	DATE/TIME PERFORMED:	Fri Jun 6 11:45:45 2014	DAYS SINCE CAL:	35
UNIT #:		3882TD HL6741			

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.004	0.002	-0.002	-0.002	-0.003	-0.001	-0.001	-0.004
	-0.078 0.082	-0.058 0.062	-0.030 0.030	-0.031 0.029	-0.032 0.028	-0.029 0.031	-0.030 0.030	-0.034 0.026
Coil 0 Q	0.002	0.009	0.002	0.001	0.001	-0.001	0.000	0.002
	-0.037 0.043	-0.111 0.129	-0.027 0.033	-0.029 0.031	-0.027 0.033	-0.030 0.030	-0.030 0.030	-0.028 0.032
Coil 1 R	0.003	0.003	-0.002	-0.002	-0.000	0.002	0.002	-0.003
	-0.079 0.081	-0.048 0.052	-0.031 0.029	-0.029 0.031	-0.027 0.033	-0.027 0.033	-0.029 0.031	-0.033 0.027
Coil 1 Q	-0.002	-0.002	-0.001	-0.001	-0.002	-0.001	0.003	0.003
	-0.404 0.396	-0.105 0.095	-0.032 0.028	-0.032 0.028	-0.032 0.028	-0.031 0.029	-0.026 0.034	-0.024 0.036
Coil 2 R	0.003	0.001	-0.001	-0.005	-0.002	-0.004	-0.001	0.004
	-0.068 0.072	-0.028 0.032	-0.031 0.029	-0.032 0.028	-0.030 0.030	-0.031 0.029	-0.029 0.031	-0.025 0.035
Coil 2 Q	-0.007	-0.007	0.002	0.001	-0.004	-0.004	-0.004	-0.007
	-0.359 0.341	-0.105 0.095	-0.028 0.032	-0.028 0.032	-0.035 0.025	-0.033 0.027	-0.036 0.024	-0.037 0.023
Coil 3 R	-0.005	-0.004	-0.001	0.003	0.000	0.001	-0.003	0.001
	-0.045 0.035	-0.043 0.037	-0.035 0.045	-0.038 0.042	-0.038 0.042	-0.040 0.040	-0.045 0.035	-0.040 0.040
Coil 3 Q	0.001	-0.003	0.001	-0.004	-0.001	0.003	0.001	-0.003
	-0.203 0.197	-0.087 0.073	-0.042 0.038	-0.039 0.041	-0.040 0.040	-0.036 0.044	-0.040 0.040	-0.042 0.038
Coil 4 R	-0.006	-0.006	-0.007	-0.015	-0.006	-0.003	0.003	0.001
	-0.068 0.052	-0.058 0.062	-0.063 0.057	-0.066 0.054	-0.064 0.056	-0.063 0.057	-0.061 0.059	-0.062 0.058
Coil 4 Q	-0.006	0.008	0.003	-0.000	-0.001	-0.004	0.000	-0.000
	-0.307 0.293	-0.098 0.102	-0.061 0.059	-0.056 0.064	-0.056 0.064	-0.059 0.061	-0.061 0.059	-0.061 0.059
Coil 5 R	-0.003	-0.001	0.002	-0.001	0.007	0.000	-0.004	-0.014
	-0.127 0.113	-0.117 0.123	-0.107 0.133	-0.112 0.128	-0.124 0.116	-0.135 0.105	-0.128 0.112	-0.123 0.117
Coil 5 Q	-0.002	0.000	-0.003	-0.004	0.013	0.012	0.001	-0.008
	-0.604 0.596	-0.248 0.252	-0.135 0.105	-0.106 0.134	-0.110 0.130	-0.108 0.132	-0.118 0.122	-0.123 0.117
Coil 6 R	0.026	0.013	-0.014	-0.045	-0.004	-0.001	0.021	0.018
	-0.291 0.309	-0.296 0.304	-0.315 0.285	-0.303 0.297	-0.299 0.301	-0.315 0.285	-0.280 0.320	-0.285 0.315
Coil 6 Q	-0.009	0.008	-0.004	0.002	-0.032	-0.035	0.024	0.017
	-1.517 1.483	-0.596 0.604	-0.300 0.300	-0.320 0.280	-0.338 0.262	-0.310 0.290	-0.313 0.287	-0.296 0.304
ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	126.44	125.14	122.56	119.05	114.30	108.65	101.75	93.84
	124.55 129.63	123.31 128.34	120.91 125.85	117.50 122.29	113.09 117.70	107.51 111.90	101.03 105.15	93.28 97.09
Coil 0 P	7.673	24.080	40.204	56.252	72.362	88.387	104.458	120.283
	4.627 10.627	21.044 27.044	37.167 43.167	53.255 59.255	69.355 75.355	85.517 91.517	101.607 107.607	117.689 123.689

Coil 1 M	221.71	219.62	215.57	210.07	202.71	193.94	183.30	171.13
	218.21 227.11	216.19 225.02	212.41 221.08	207.04 215.49	200.12 208.29	191.49 199.30	181.37 188.77	169.42 176.34
Coil 1 P	7.289	22.913	38.278	53.504	68.801	83.996	99.243	114.284
	4.262 10.262	19.932 25.932	35.306 41.306	50.632 56.632	65.927 71.927	81.292 87.292	96.530 102.530	111.864 117.864
Coil 2 M	442.54	438.49	430.53	420.26	406.51	390.83	372.25	351.78
	435.79 453.57	431.86 449.49	424.46 441.78	414.28 431.19	401.53 417.92	386.13 401.89	368.89 383.95	348.85 363.09
Coil 2 P	7.090	22.267	37.141	51.845	66.532	81.077	95.625	109.989
	4.057 10.057	19.290 25.290	34.187 40.187	48.972 54.972	63.667 69.667	78.333 84.333	92.930 98.930	107.623 113.623
Coil 3 M	723.26	716.25	702.64	684.46	659.96	631.06	596.17	556.72
	708.78 737.71	702.06 730.71	689.40 717.54	671.68 699.10	648.76 675.24	620.68 646.01	587.82 611.82	549.00 571.40
Coil 3 P	7.567	23.705	39.556	55.301	71.090	86.765	102.512	118.018
	4.542 10.542	20.739 26.739	36.633 42.633	52.481 58.481	68.282 74.282	84.128 90.128	99.946 105.946	115.783 121.783
Coil 4 M	1130.0	1118.1	1094.5	1062.4	1019.2	967.7	905.5	834.9
	1105.0 1150.1	1093.6 1138.3	1071.6 1115.3	1040.2 1082.6	999.9 1040.7	949.6 988.4	890.7 927.1	822.4 855.9
Coil 4 P	7.998	24.987	41.722	58.340	75.013	91.568	108.168	124.439
	4.969 10.969	21.998 27.998	38.749 44.749	55.444 61.444	72.114 78.114	88.819 94.819	105.437 111.437	122.031 128.031
Coil 5 M	2289.7	2266.4	2221.7	2162.2	2082.0	1988.8	1876.6	1750.4
	2245.9 2337.6	2223.6 2314.3	2181.8 2270.9	2123.5 2210.1	2048.6 2132.2	1957.2 2037.1	1851.4 1926.9	1726.9 1797.4
Coil 5 P	7.922	24.805	41.387	57.840	74.334	90.695	107.135	123.372
	4.910 10.910	21.857 27.857	38.487 44.487	55.049 61.049	71.562 77.562	88.116 94.116	104.608 110.608	121.187 127.187
Coil 6 M	6077.5	5986.4	5813.5	5582.7	5286.9	4953.5	4573.3	4163.8
	5977.1 6221.1	5887.3 6127.6	5719.8 5953.3	5491.4 5715.6	5208.7 5421.3	4878.2 5077.3	4513.3 4697.5	4108.7 4276.4
Coil 6 P	8.678	27.290	45.448	63.380	81.160	98.671	116.044	133.012
	5.674 11.674	24.371 30.371	42.601 48.601	60.617 66.617	78.421 84.421	96.147 102.147	113.550 119.550	130.853 136.853

INSTRUMENT CONFIGURATION

Source File: /dat1a/WPX_RGU_323_24_198/n777q~triple-tdg

CABLEHEAD

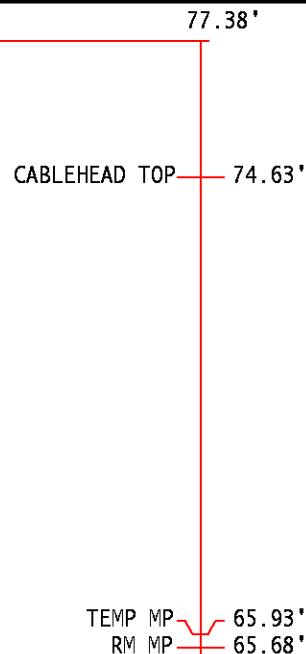
Diameter : 3.38"
Length : 5.50'
Weight : 24 lbs
Series : CABL338
Mnemonic : CBLH
Measure Point: 2.75': CABLEHEAD TOP

SWIVEL

Diameter : 3.38"
Length : 3.50'
Weight : 68 lbs
Series : 3944XD
Mnemonic : SWVL

TTRM SUB

Diameter : 3.63"
Length : 3.83'
Weight : 62 lbs
Series : 3981XA
Mnemonic : TTRM
Measure Point: 1.38': TEMP MP
Measure Point: 1.13': RM MP



WTS COMMON REMOTE

Diameter : 3.63"
Length : 6.36'
Weight : 126 lbs
Series : 3514XB
Mnemonic : WTS

DIGITAL SPECTRALOG

Diameter : 3.63"
Length : 7.31'
Weight : 130 lbs
Series : 1329XA
Mnemonic : DSL
Measure Point: 1.60': GR MP

GR MP — 52.48'

COMPENSATED NEUTRON

Diameter : 3.63"
Length : 7.59'
Weight : 150 lbs
Series : 2446XA
Mnemonic : CN
Measure Point: 2.63': LSN MP
Measure Point: 2.24': SSN MP

LSN MP — 45.92'
SSN MP — 45.52'

Z-DENSILOG

Diameter : 4.88"
Length : 11.22'
Weight : 360 lbs
Series : 2234XA
Mnemonic : ZDL
Measure Point: 3.19': CAL MP
Measure Point: 2.47': LSD MP
Measure Point: 2.07': SSD MP

CAL MP — 35.26'
LSD MP — 34.54'
SSD MP — 34.14'

KNUCKLE JOINT (DOUBLE)

Diameter : 3.38"
Length : 4.65'
Weight : 90 lbs
Series : 3939XA
Mnemonic : KNJT

HIGH DEFINITION INDUCTION TOOL

Diameter : 3.62"
 Length : 27.13'
 Weight : 415 lbs
 Series : 1515XA
 Mnemonic : HDIL
 Measure Point: 13.91': SP MP
 Measure Point: 7.44': XMTR MP


SP MP 14.19'

XMTR MP 7.72'

BULL PLUG 3 3/8

0.00'

TOTAL LENGTH: 77.38'
 TOTAL WEIGHT: 1446 lbs
 MAX DIAMETER: 0'6.30"

	COMPANY <u>WPX ENERGY INC</u>		FILE NO: <u>US086866</u>
	WELL <u>FEDERAL RGU 323-24-198</u>		API NO: <u>05103120820000</u>
	FIELD <u>SULPHUR CREEK</u>		
	COUNTY <u>RIO BLANCO</u>	STATE <u>CO</u>	
LOCATION: SHL: 2150' FSL & 1708' FEL BHL: 2116' FEL & 1903' FWL		ELEVATIONS: KB 6617 FT DF GL 6596 FT	S24 T1S R98W PAD: 33-24-198 RIG: CYCLONE 29
SEC <u>24</u> TWP <u>1S</u> RGE <u>98W</u>		DATE <u>06-JUN-2014</u>	