



FILE NO:
US625062
API NO:
05045219660000

COMPANY
WELL
FIELD
COUNTY

WPX ENERGY INC
SAVAGE RWF 322-25
RULISON
GARFIELD

STATE CO

Ver. 3.87
S25 T6S R94W
RIG: CYCLONE 17
PAD: RWF 22-25

LOCATION:
SHL: 2466' FNL 1424' FWL
BHL: 1465' FNL 2219' FWL
SEC 25 TWP 6S RGE 94W

OTHER SERVICES
NA

PERMANENT DATUM
LOG MEASURED FROM
DRILL. MEAS. FROM

GL ELEVATION 6037 FT
KB 21 FT ABOVE P.D.
KB

ELEVATIONS:
KB 6058 FT
DF
GL 6037 FT

DATE	20-Feb-2014
RUN	1
TRIP	1
SERVICE ORDER	US625062
DEPTH DRILLER	8772 FT
DEPTH LOGGER	8786 FT
BOTTOM LOGGED INTERVAL	8783 FT
TOP LOGGED INTERVAL	0 FT
CASING DRILLER	9.625 IN @ 1153 FT
CASING LOGGER	1149 FT
BIT SIZE	8.75 IN
TYPE OF FLUID IN HOLE	WBM
DENSITY	11.9 LB/G
VISCOSITY	70 CP
PH	9.4
FLUID LOSS	5.8 C3
SOURCE OF SAMPLE	FLOWLINE
RM AT MEAS. TEMP.	.53 OHMM @ 70 DEGF
RM AT MEAS. TEMP.	.40 OHMM @ 65 DEGF
RM AT MEAS. TEMP.	.66 OHMM @ 65 DEGF
SOURCE OF RMF	RMC
CALCULATED	CALCULATED
RM AT BHT	.753 OHMM @ 192 DEGF
TIME SINCE CIRCULATION	8 HR
MAX. RECORDED TEMP.	192 DEGF
EQUIP. NO.	6670
LOCATION	GRAND JCT
RECORDED BY	D SMITH
WITNESSED BY	A. DUNIHOO

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	1153 FT	8772 FT

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN	32.3 LB/F		0 FT	1153 FT

REMARKS

RUN 1 TRIP 1: HDIL_ZDL_CN_GR_TTMA RAN IN COMBINATION

BVOL_CVOL CALCULATED IN CUBIC FEET
CVOL CALCULATED USING PROPOSED 4.5 INCH CASING
CALIPER VERIFIED INSIDE SURFACE CASING

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

CN MATRIX = SANDSTONE
CN RAN DECENTRALIZED

HDIL RAN WITH 1.5 INCH STANDOFF
ABC TO CALCULATED = MUD CONDUCTIVITY

ADDITIONAL LOGS WILL BE CONDUCTED
THANK YOU FOR CHOOSING BAKER HUGHES WIRELINE SERVICES
CREW: SMITH; OLSON; COATE

RIG: CYCLONE 17

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	TTMA	3980XA	10142233	FREE
1	1	TEL/GR	3518EB / 3518EG	10127973 / 10126398	FREE
1	1	CN	2436XA	10362459	DECENTRALIZED
1	1	ZDL	2223XA	10102922	PAD DEVICE
1	1	KNJT	3930XA	10139400 / 10087279	FREE
1	1	HDIL	1530XA	10121806	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: 31 Patches: 5

Plotted: Thu Feb 20 20:08:27 2014

PARAMETER AND FILTER SUMMARY REPORT

File: /data/625062/n970a02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 1075.272 ft BOTTOM DEPTH: 8806.179 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR MED RES	FILTER Q	medium (1)		TOP	BOTTOM
CALIPER	FILTER Q	medium (1)		"	"
TENSION	FILTER Q	medium (1)		"	"
SP-SPDH	FILTER Q	heavy (3)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
BIT SIZE	BIT SIZE	8.750	in	TOP	BOTTOM
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	8.750	in	"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	70.0	degF	"	"
	MUD SAMPLE RES	0.550	ohm.m	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"
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	"	"

ACCELERATION PROCESSING

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

HDIL PROCESSING

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

TOOL POSITION	ECCENTERED	"	"
Rmud MULTIPLIER	1.000	"	"

PARAMETER AND FILTER SUMMARY REPORT

File: /dat1a/625062/n970a03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 19.439 ft BOTTOM DEPTH: 1258.897 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR MED RES	FILTER Q	medium (1)		TOP	BOTTOM
CALIPER	FILTER Q	medium (1)		"	"
TENSION	FILTER Q	medium (1)		"	"
SP-SPDH	FILTER Q	heavy (3)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
BIT SIZE	BIT SIZE	8.750	in	TOP	BOTTOM
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	8.750	in	"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	70.0	degF	"	"
	MUD SAMPLE RES	0.550	ohm.m	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"
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	"	"

ACCELERATION PROCESSING

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

HDIL PROCESSING

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

CURVE DESCRIPTION REPORT

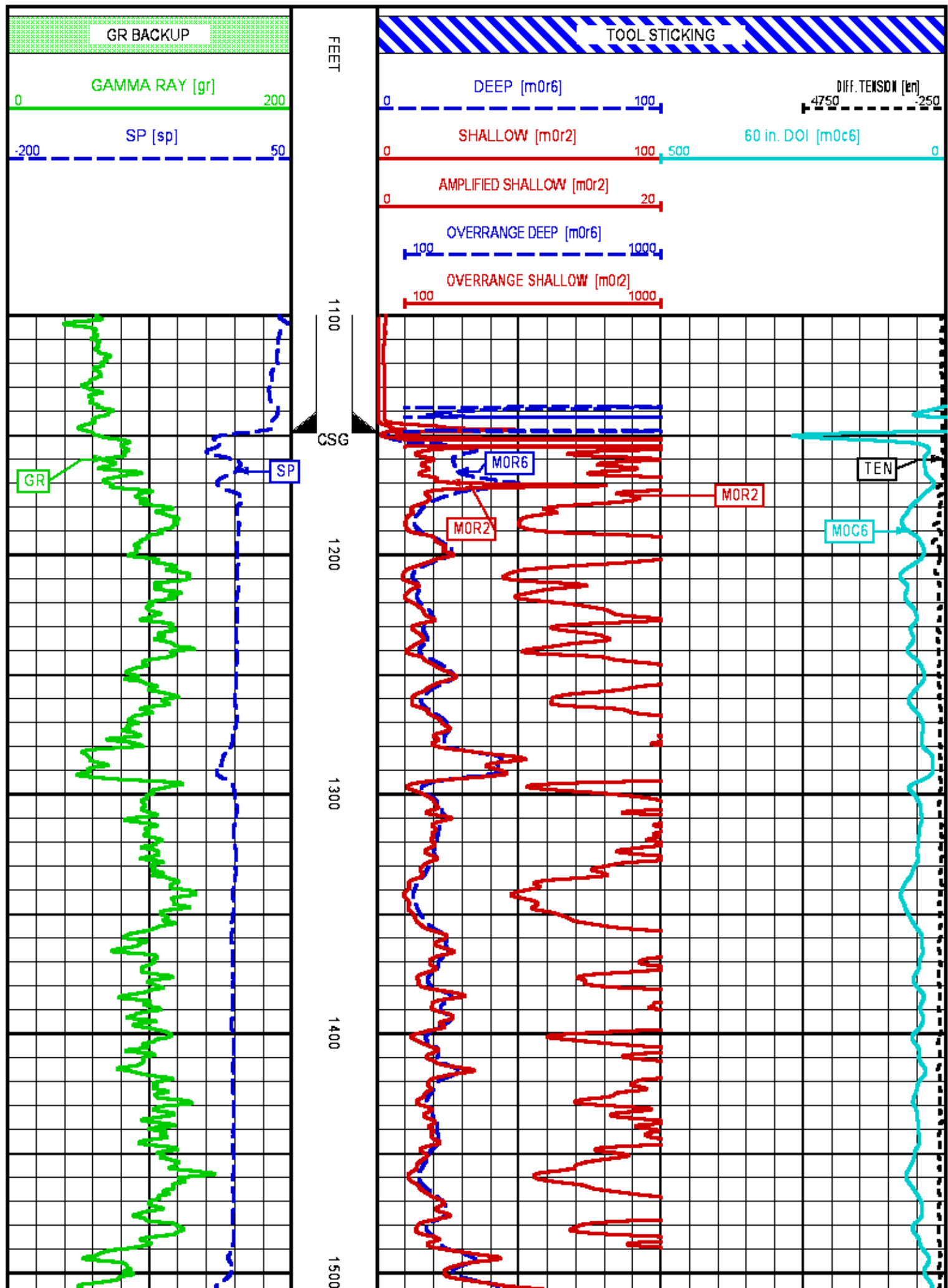
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F1:GR	Feb 20 19:08:18 2014	GAMMA RAY
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F1:MOR2	Feb 20 19:08:18 2014	TRUE FOCUSED RESISTIVITY FOR HDIL, 20-INCH DOI
F1:MOR6	Feb 20 19:08:18 2014	TRUE FOCUSED RESISTIVITY FOR HDIL, 60-INCH DOI
F1:SP	Feb 20 19:08:18 2014	SPONTANEOUS POTENTIAL
F1:TEN	Feb 20 19:08:18 2014	DIFFERENTIAL TENSION

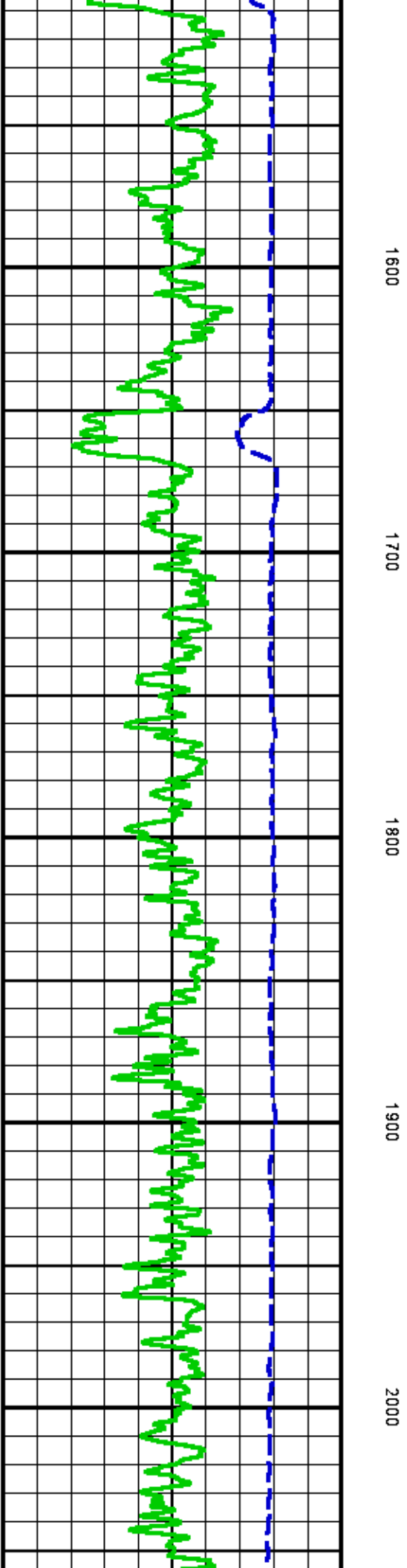
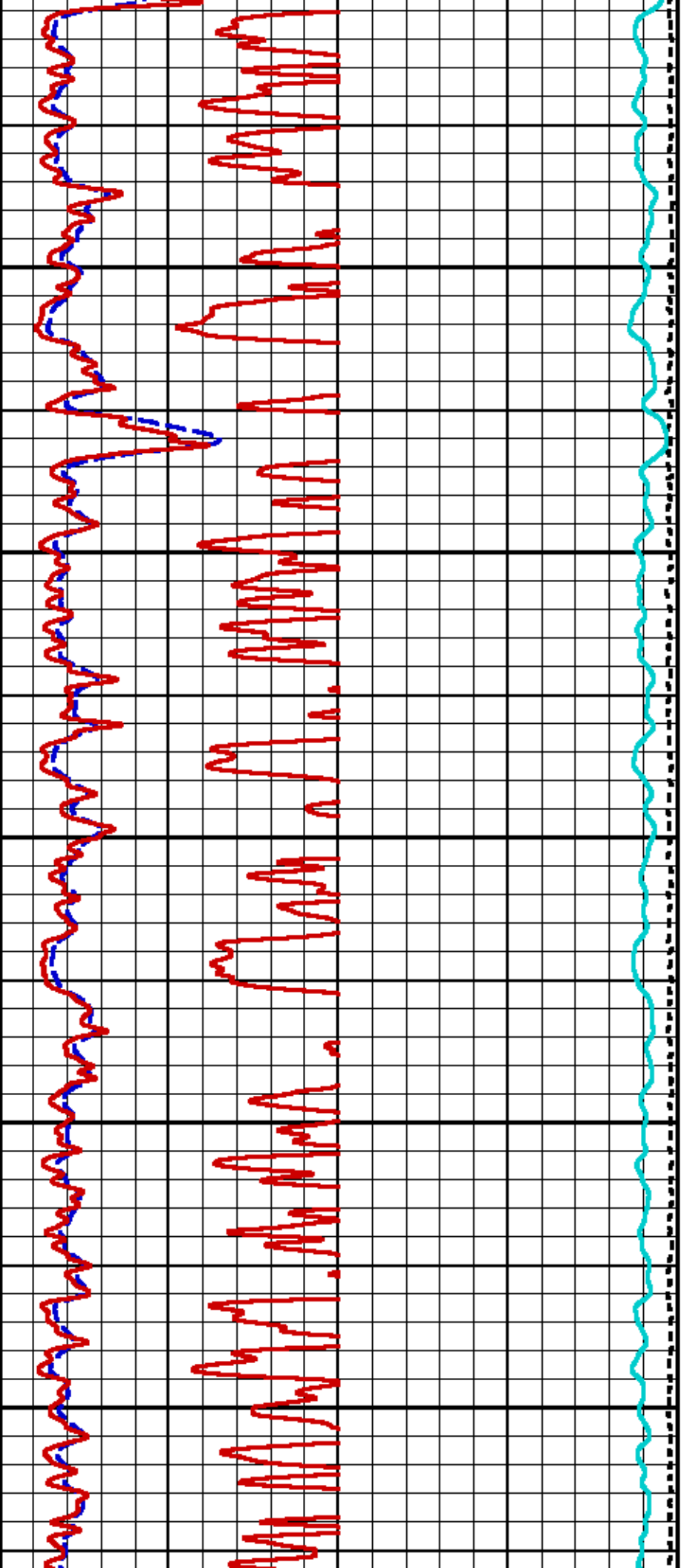
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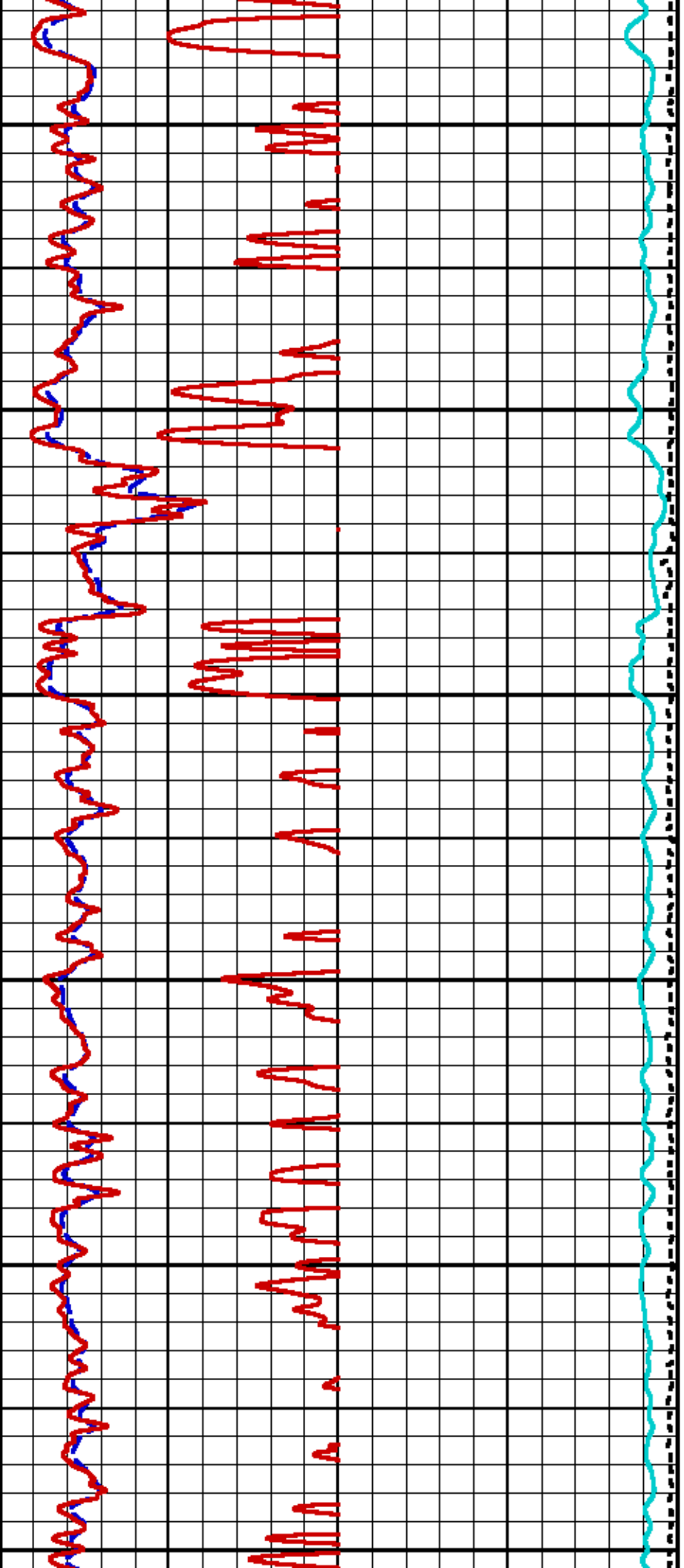
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GR	35.00	MOR2	2.75	SP	1.25		
MOC6	2.75	MOR6	2.75	TEN	0.00		

Presentation : HL6670:WPX 2IN.fvpdf [2"/100' Scale]
Plot Interval : 1100 - 8811.5 Feet

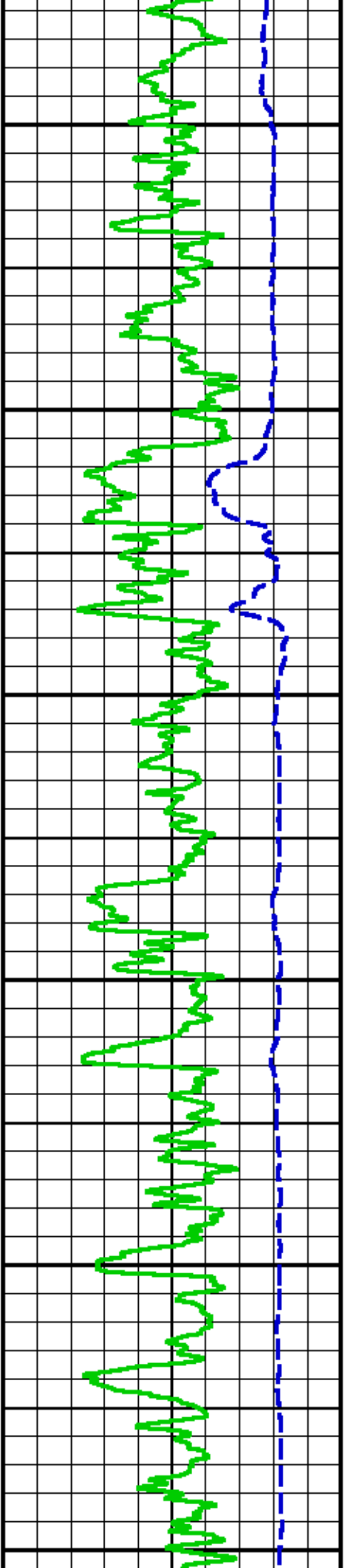
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Company : WPX ENERGY INC
Well : SAVAGE RWF 322-25
Field : RULISON
File Interval : -14.75 - 8811.5 Feet

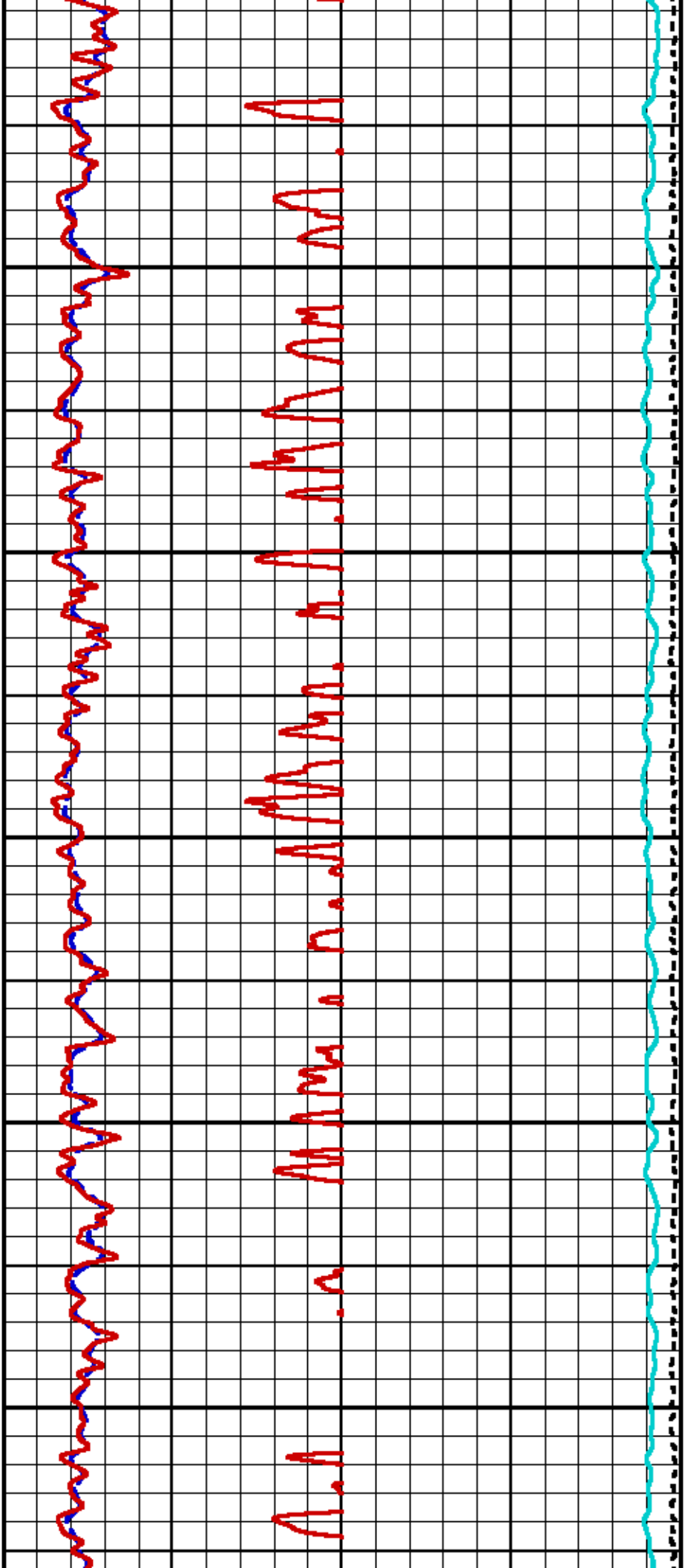






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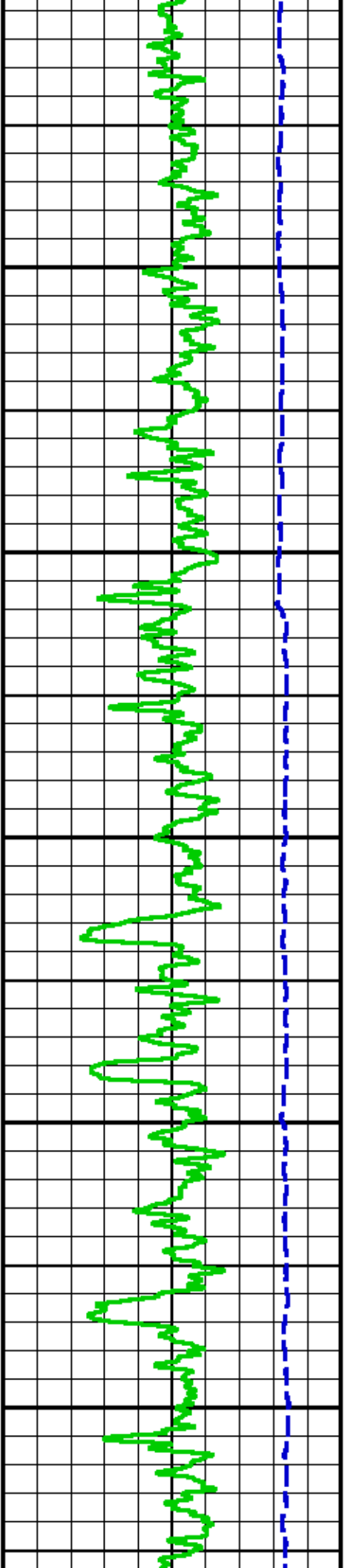
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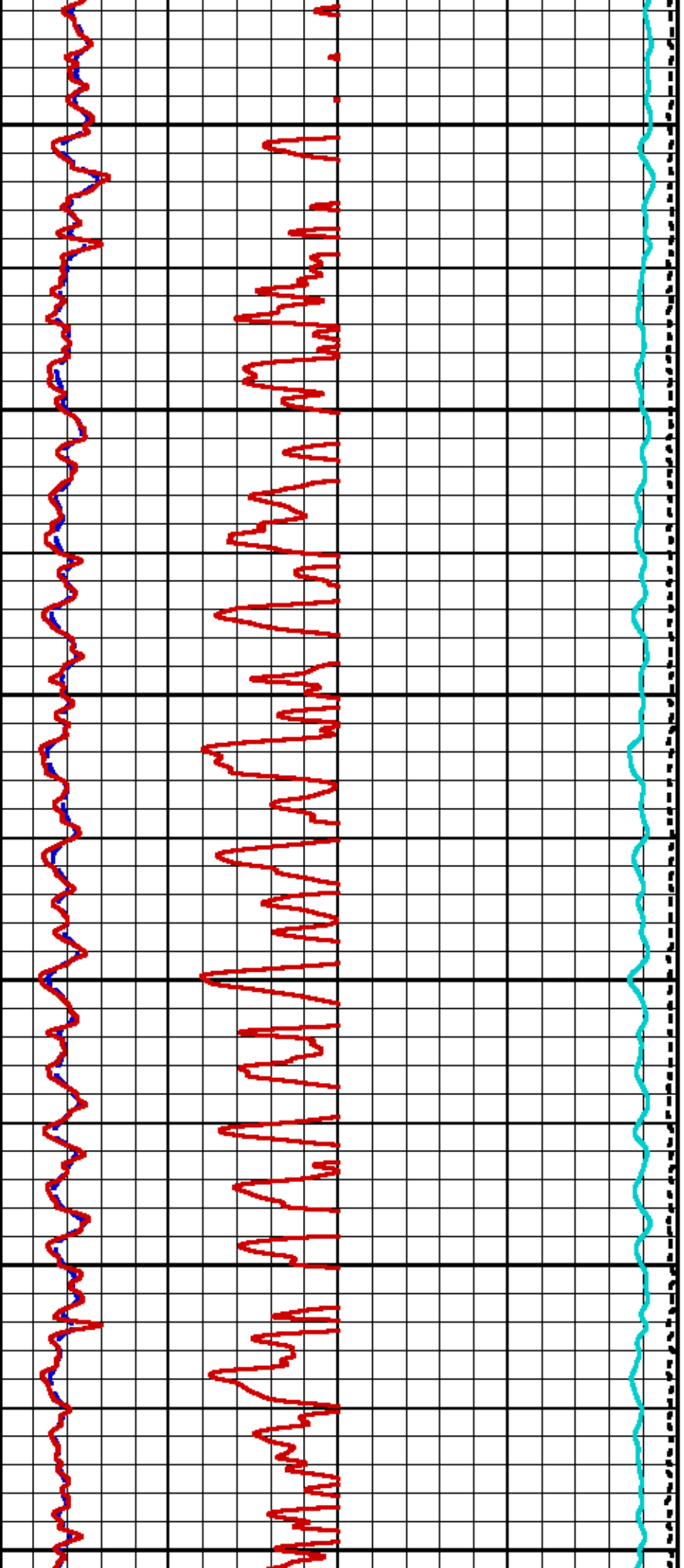
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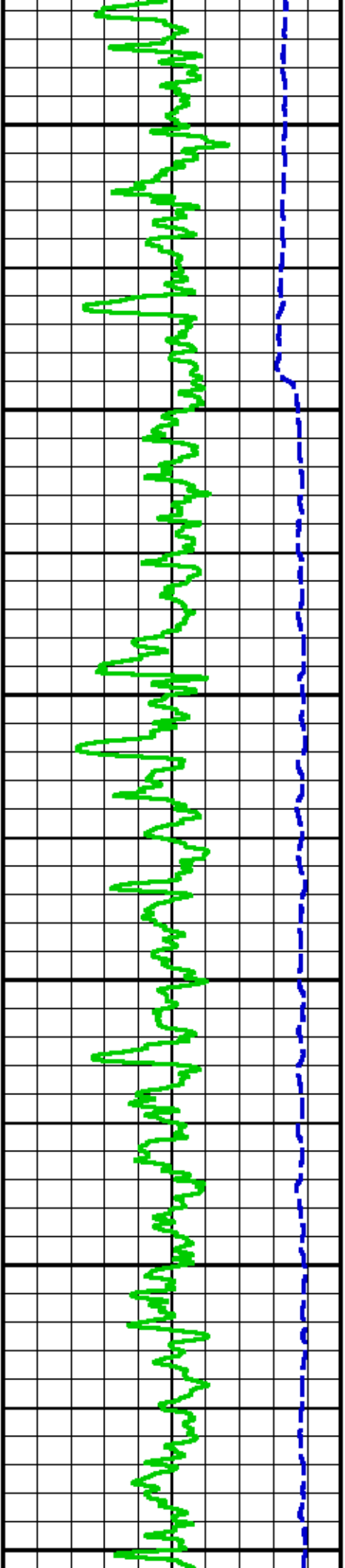
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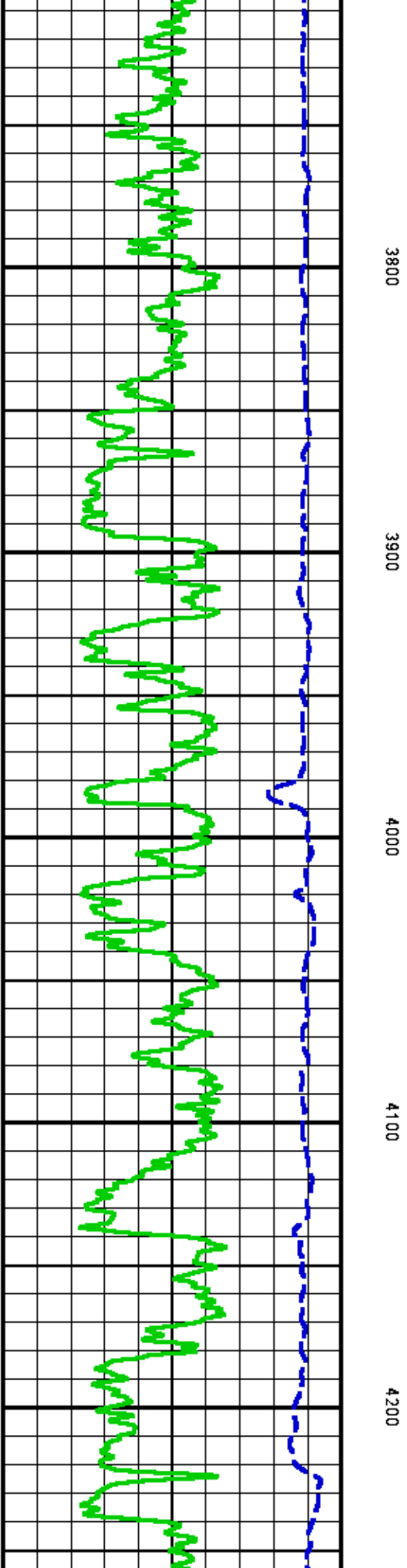
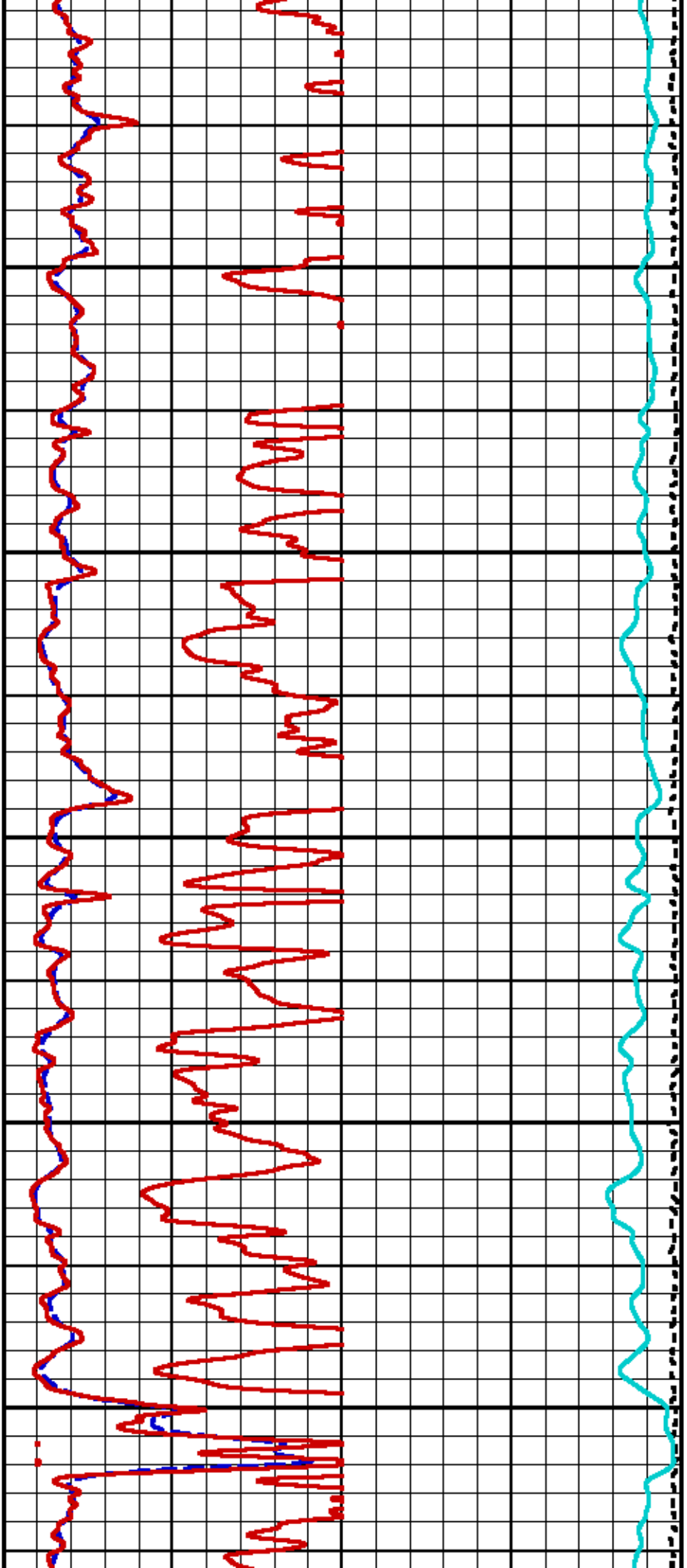
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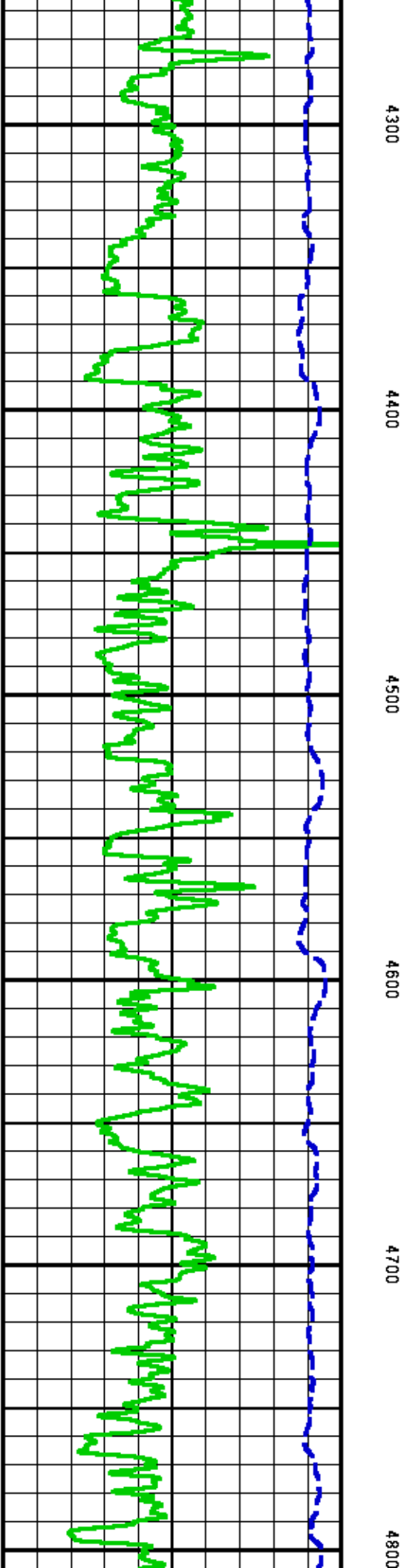
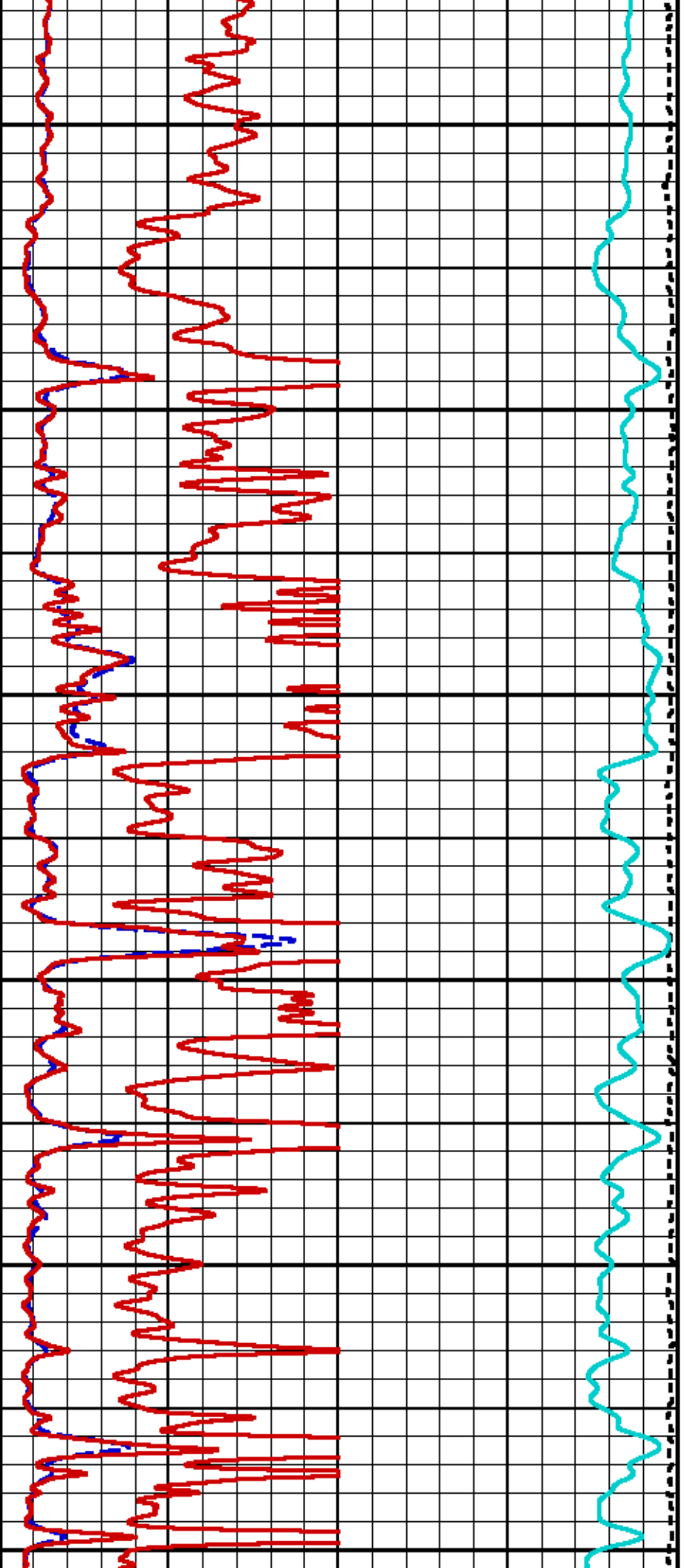


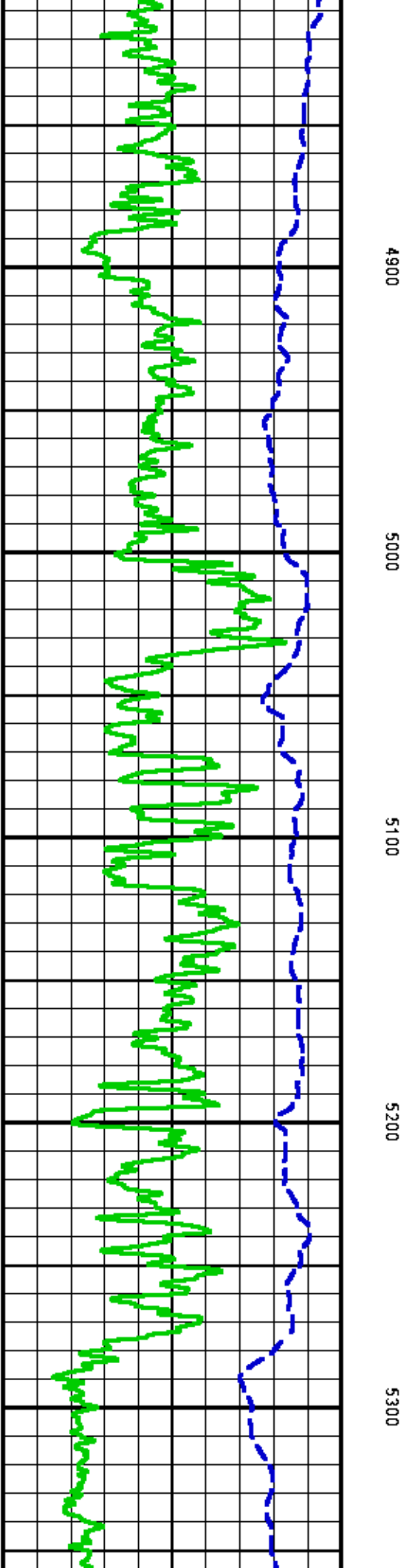
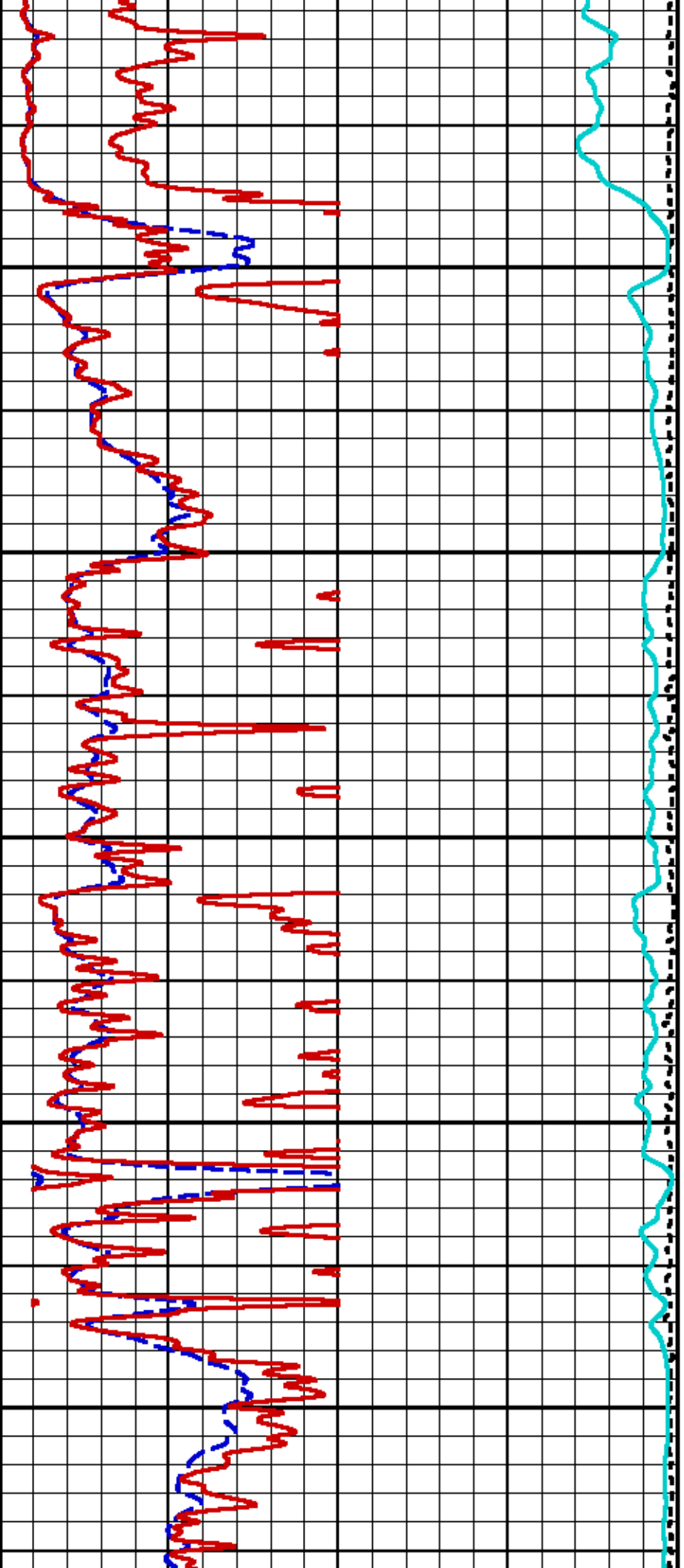


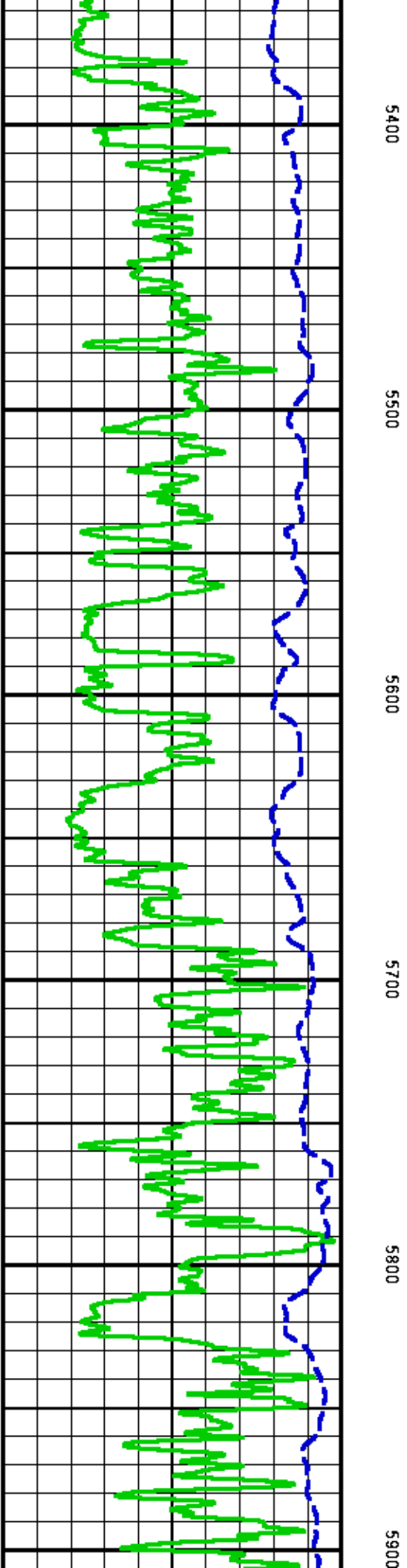
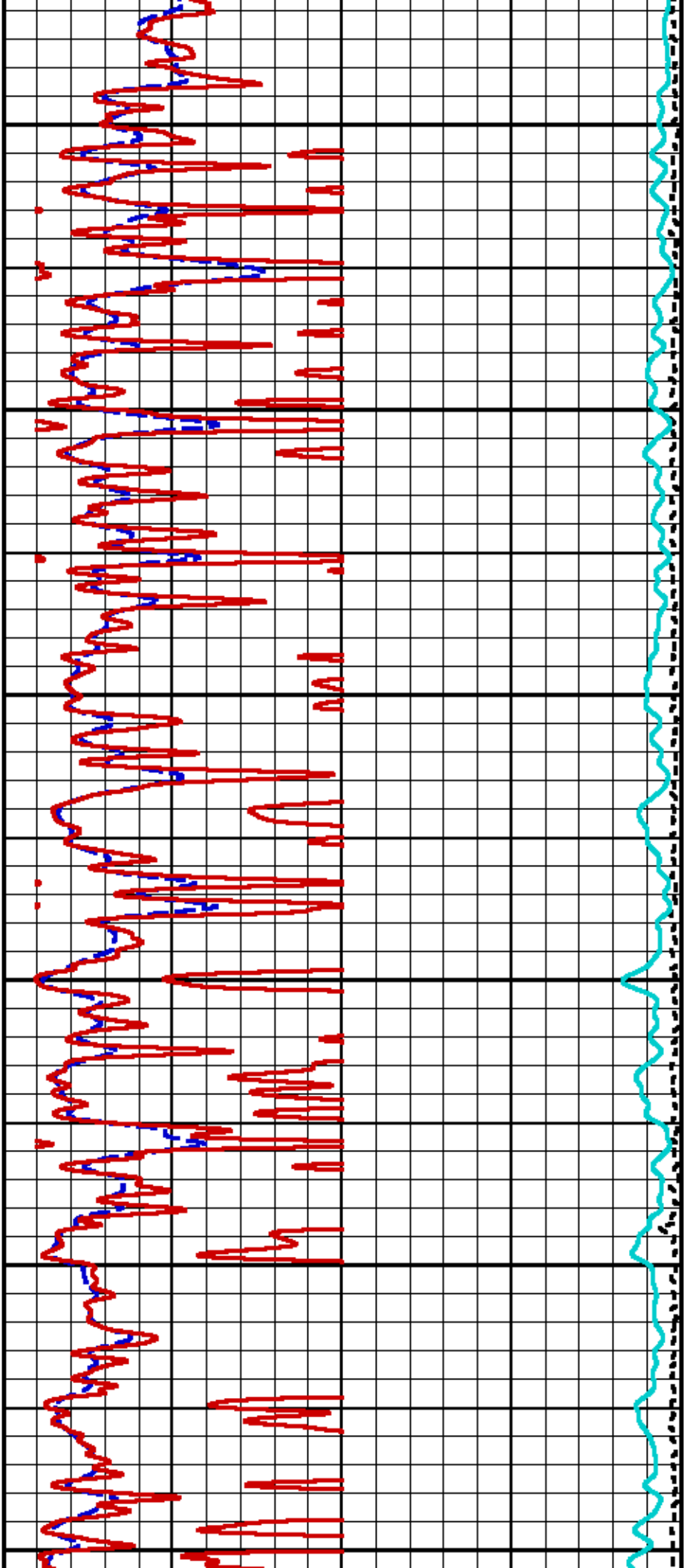
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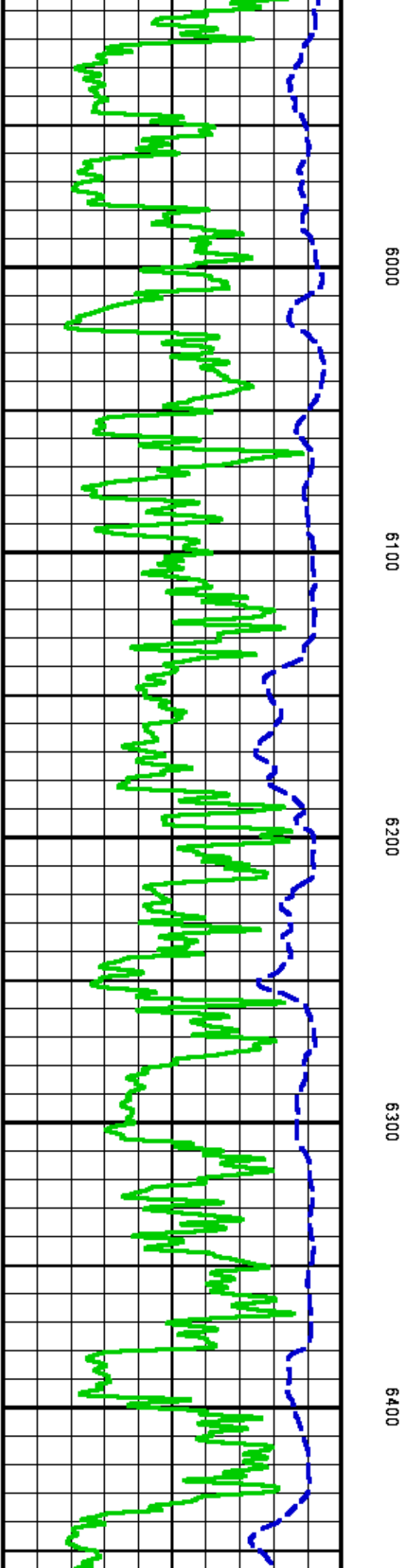
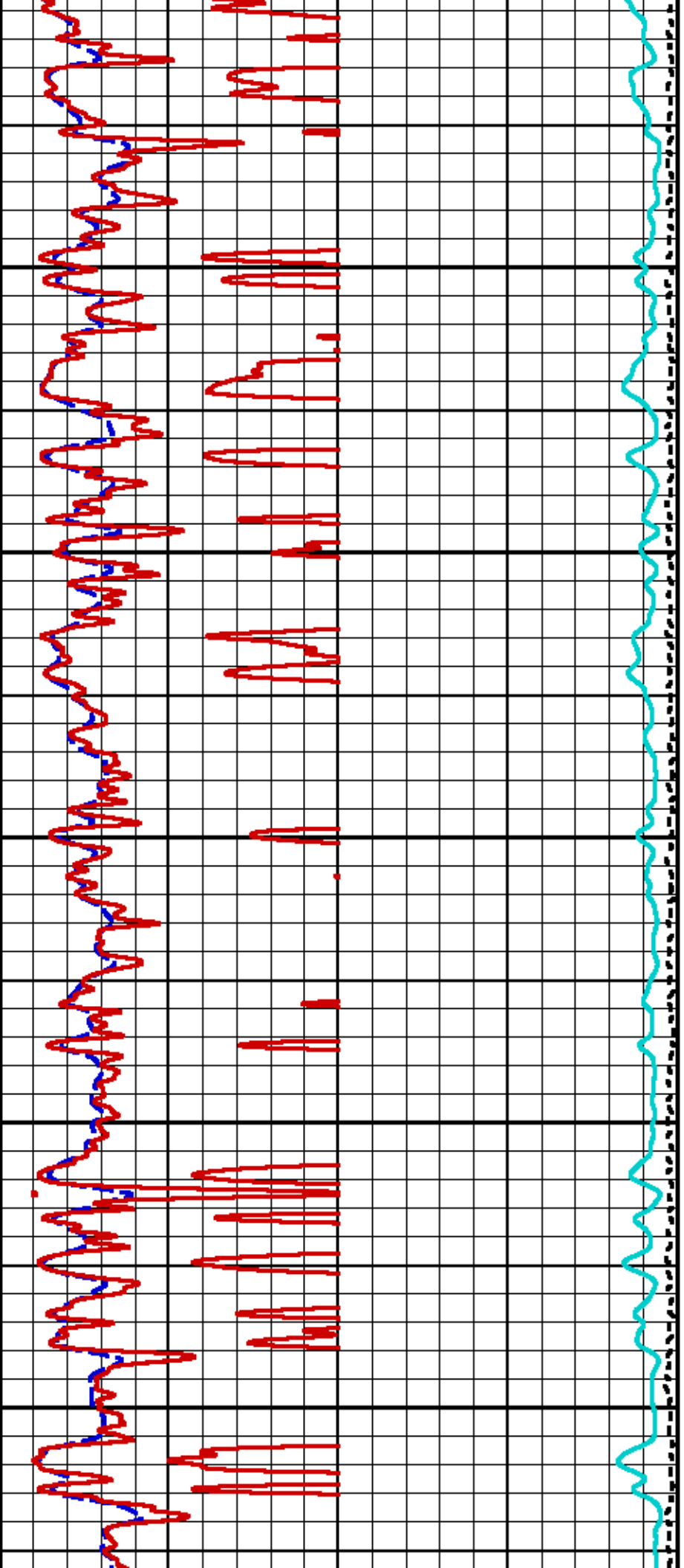


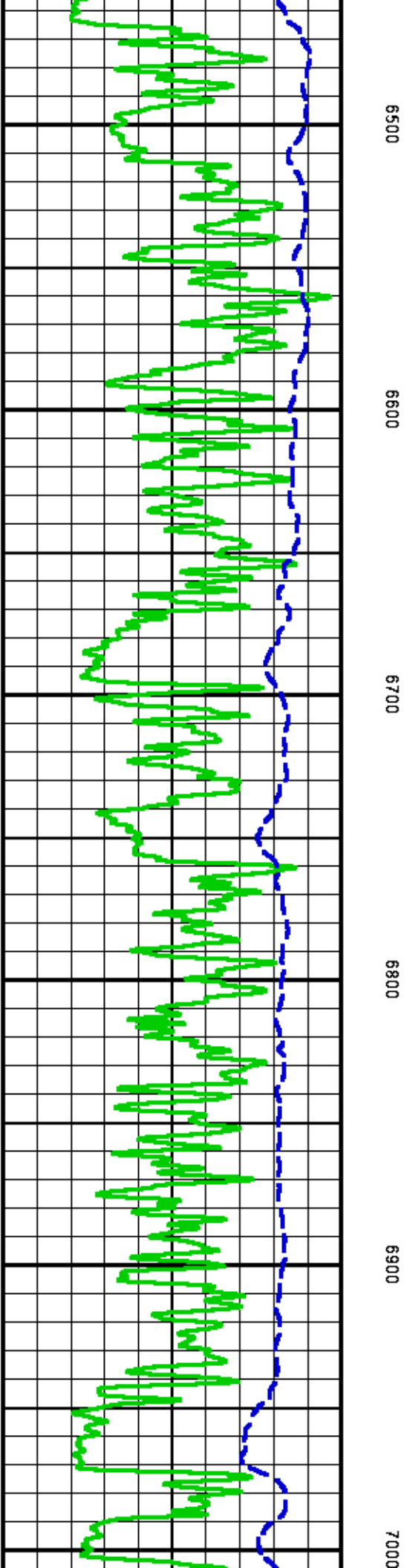
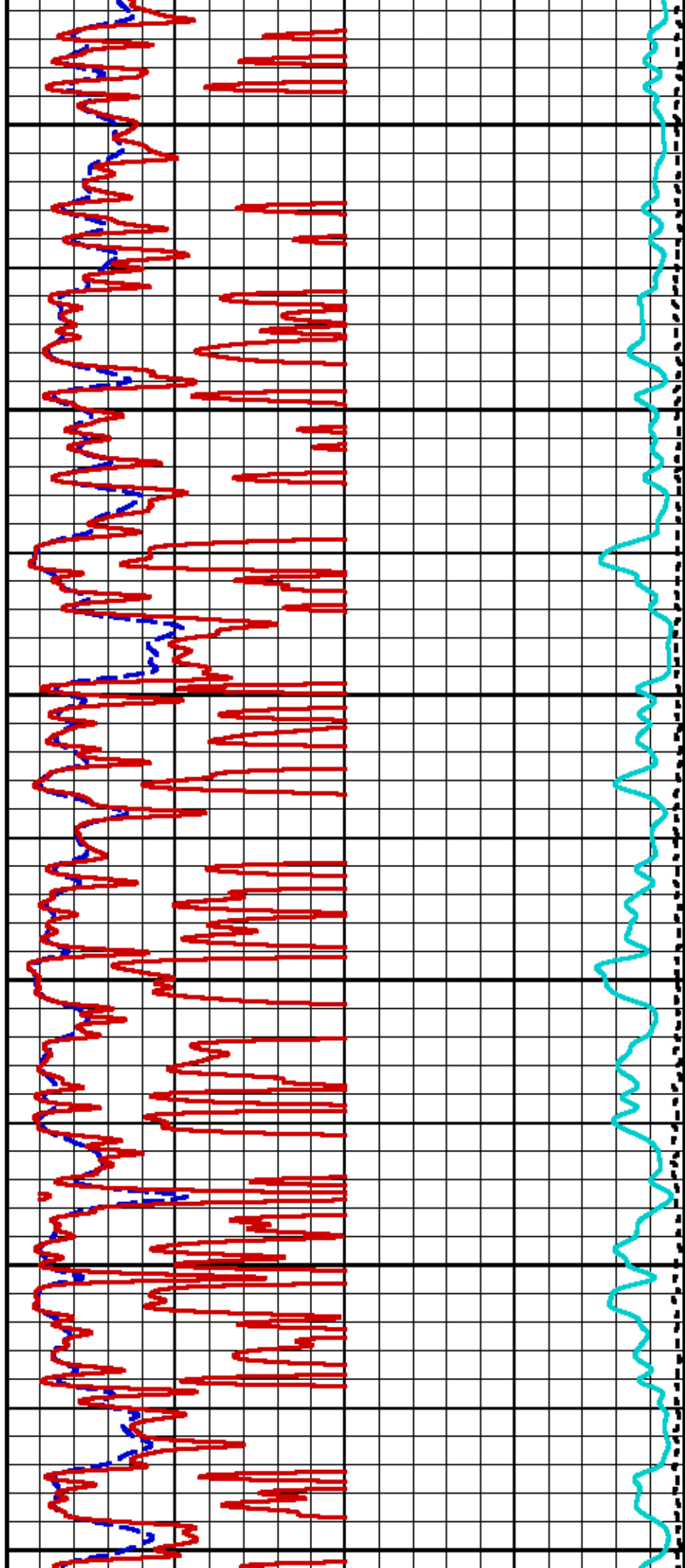


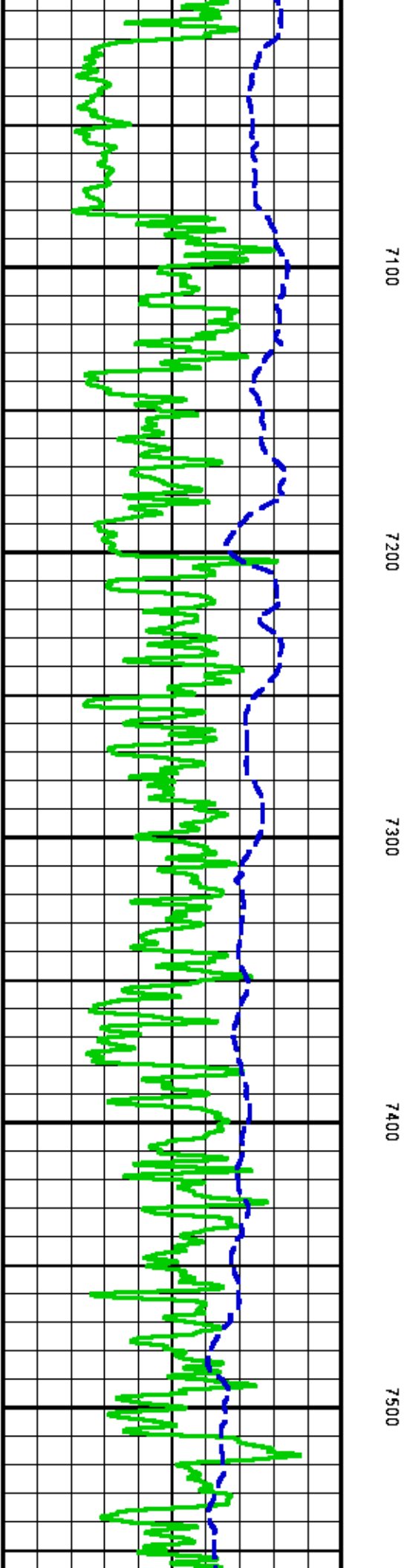
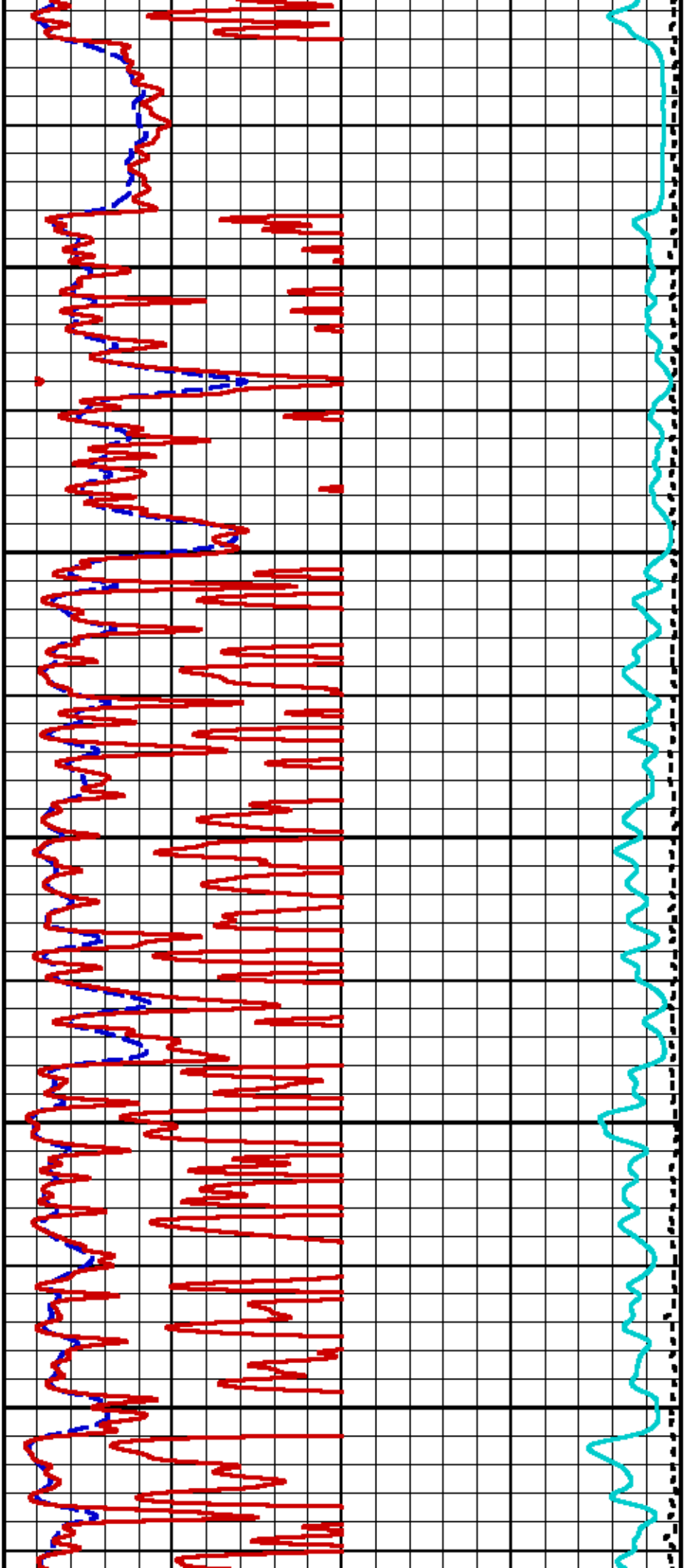


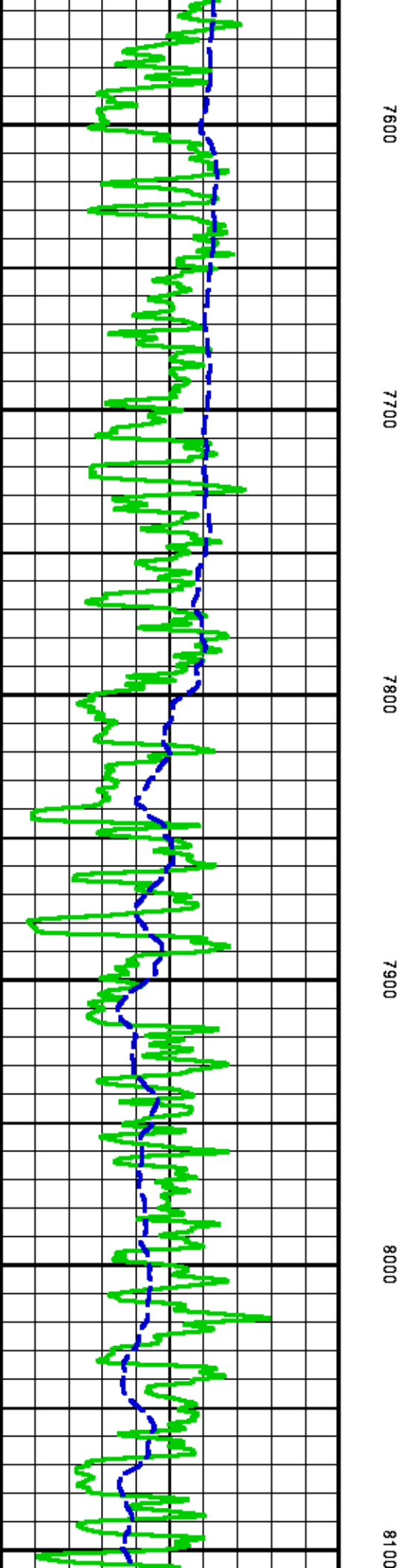
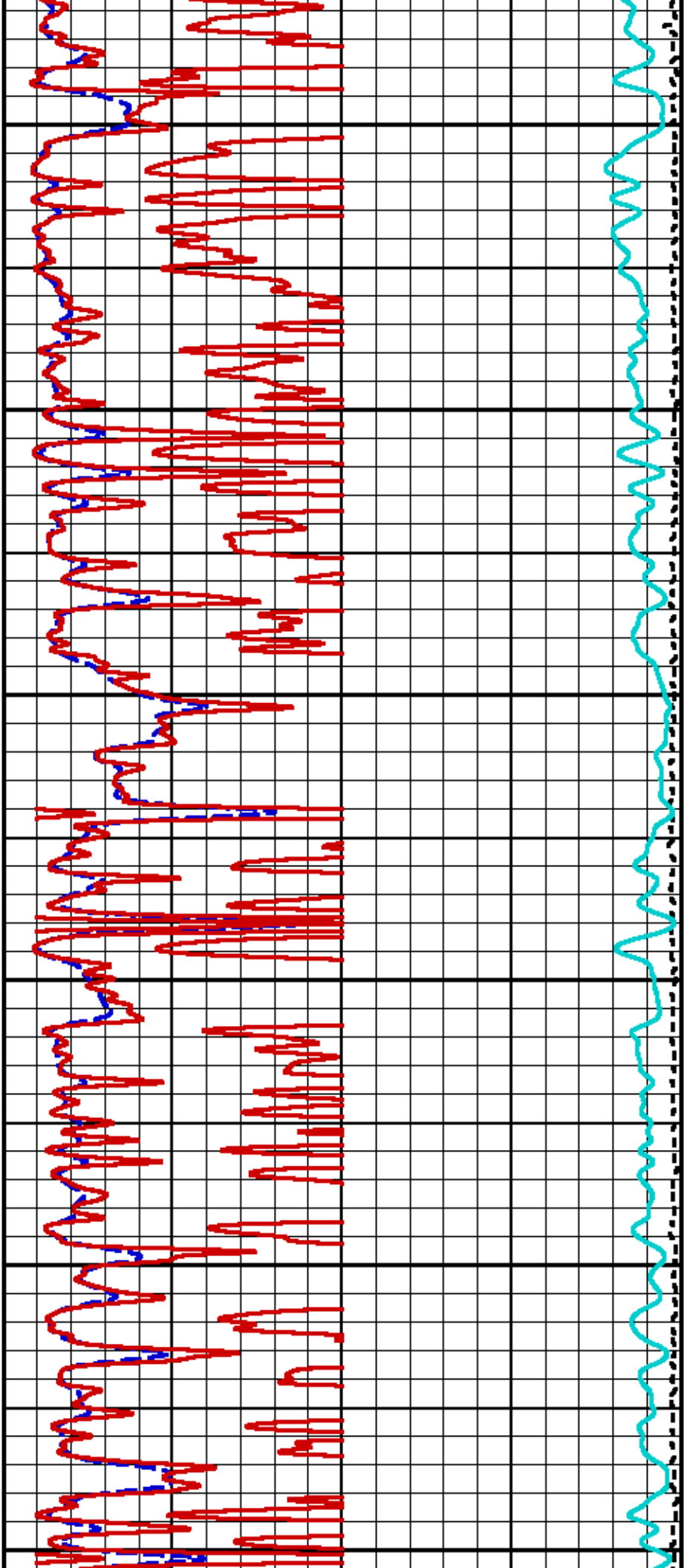


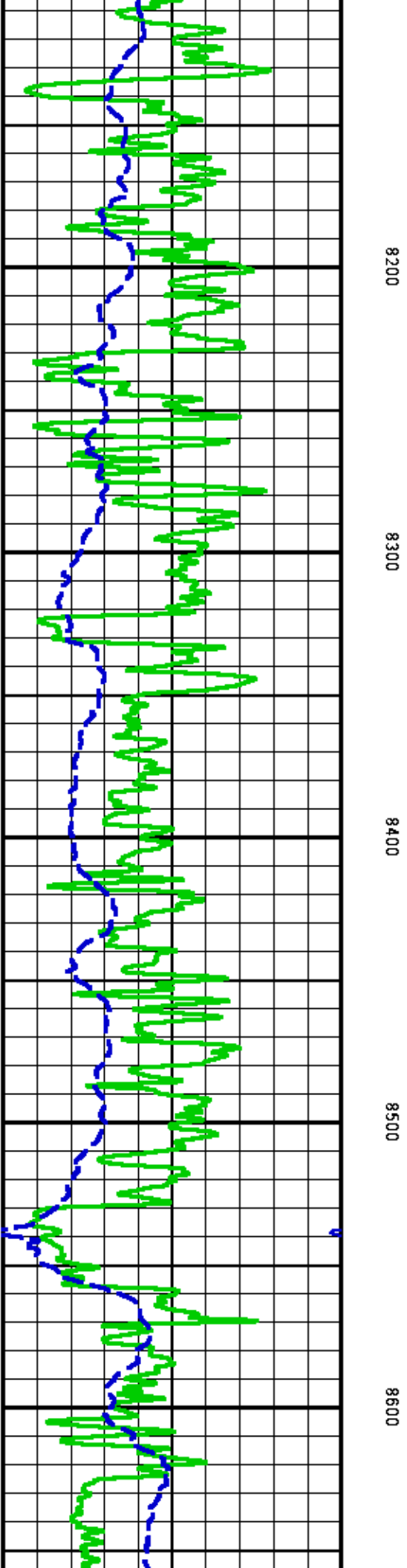
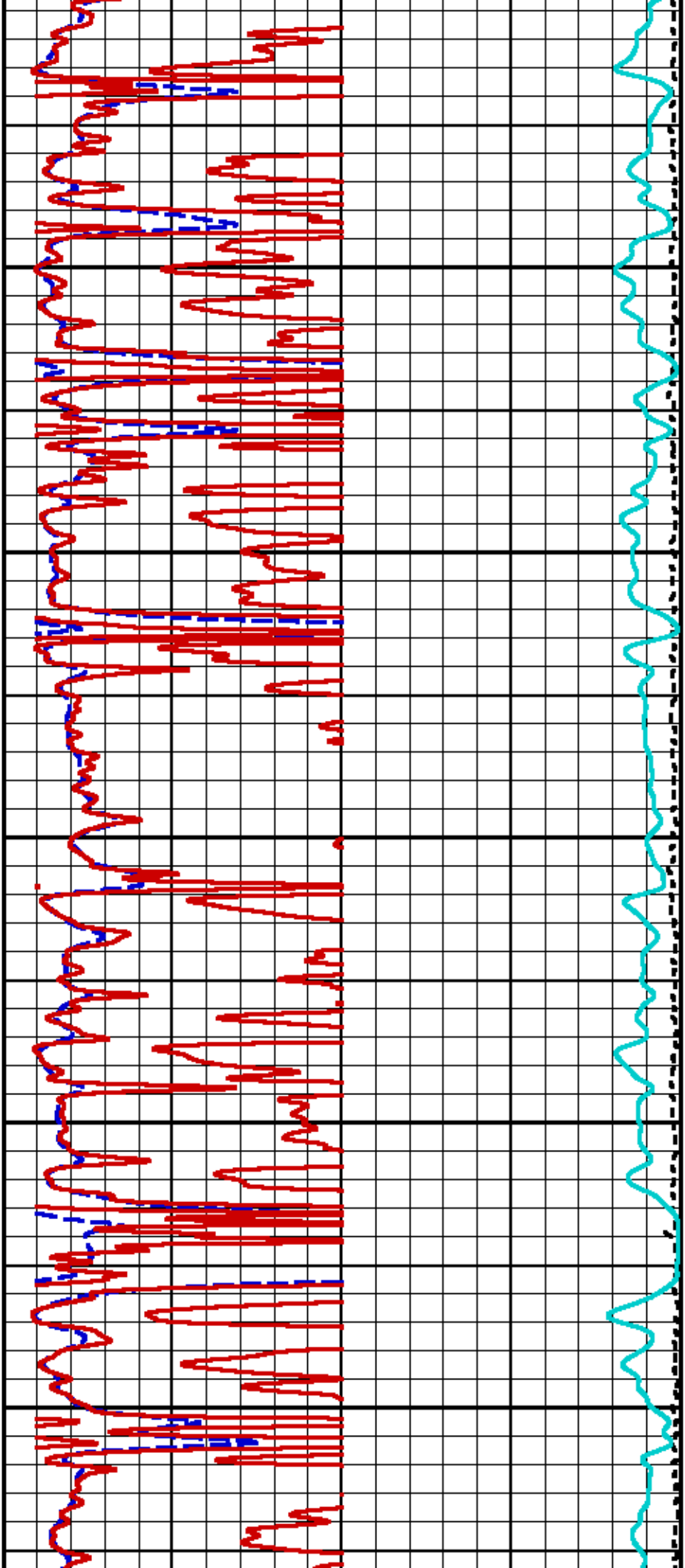


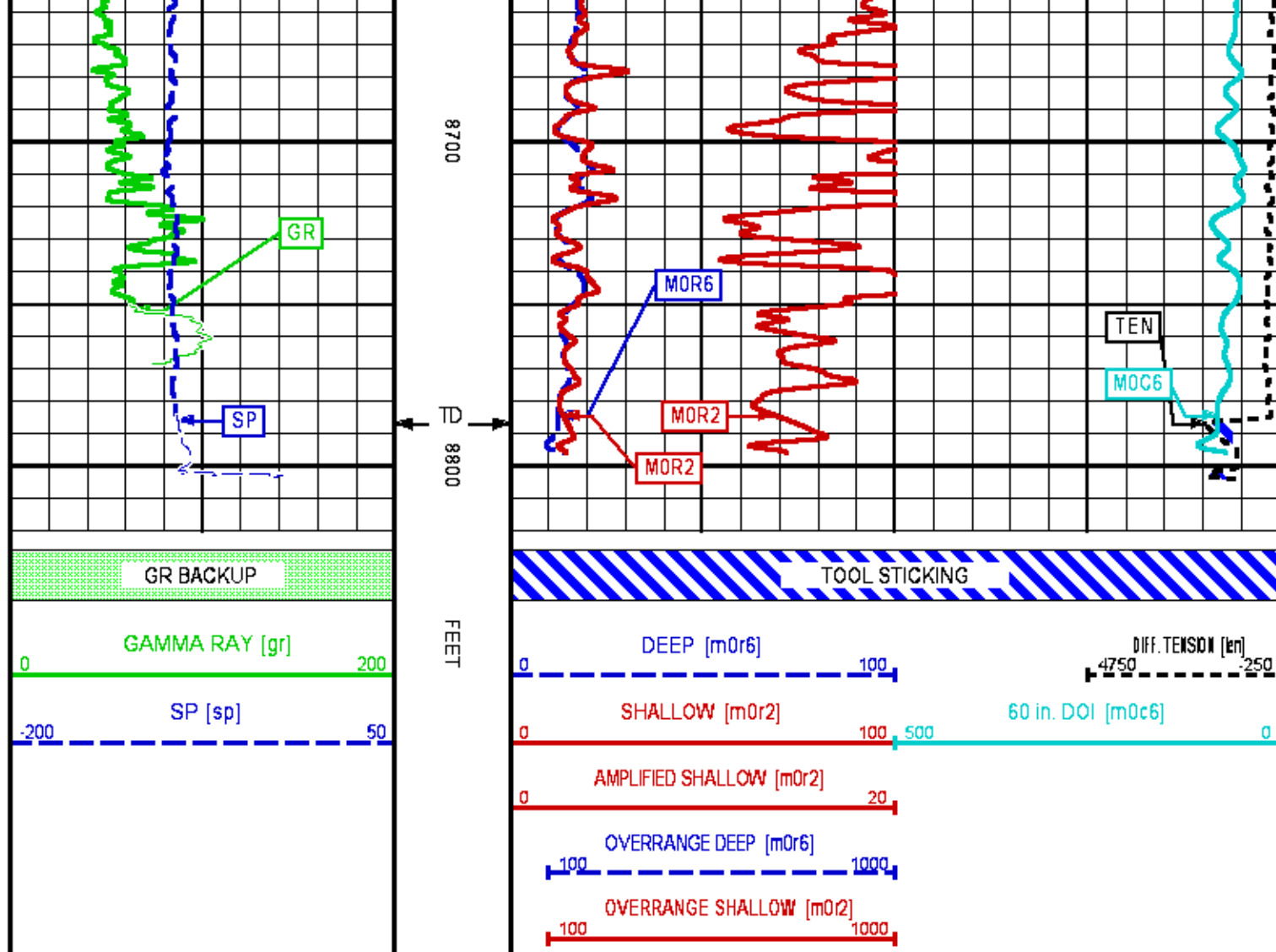












MAIN LOG 5"/100FT SCALE

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

Updates: 31 Patches: 5

Plotted: Fri Feb 21 07:10:46 2014

PARAMETER AND FILTER SUMMARY REPORT

File: /dat1a/625062/n970a02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 1075.272 ft BOTTOM DEPTH: 8806.179 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR MED RES	FILTER Q	medium (1)		TOP	BOTTOM
CALIPER	FILTER Q	medium (1)		"	"
TENSION	FILTER Q	medium (1)		"	"
CN MED RES	FILTER Q	medium (1)		"	"
ZDL MED RES	FILTER (hrd1*)	medium		"	"
	FILTER (hrd1*)	medium		"	"
	FILTER (hrd2*)	medium		"	"

SP-SPDH	FILTER (hrd2a*)	medium	"	"
	FILTER (soft*)	medium	"	"
	FILTER ()	heavy (3)	"	"

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	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		"	"
	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	8.750	in	"	"
	FIXED DIAMETER (mbh*)	8.750	in	"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	70.0	degF	"	"
	MUD SAMPLE RES	0.550	ohm.m	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"
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	"	"

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

CN PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CN MATRIX	2436 MATRIX	SANDSTONE		TOP	BOTTOM
CN BOREHOLE CORRECTION	SALINITY	650	ppm	"	"
	BOREHOLE CORRECTION	ON		"	"
CN TOOL STANDOFF	ENABLE STANDOFF CORR	OFF		"	"
	STANDOFF AMOUNT	0.00	in	"	"
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE BEHIND CSNG	13.500	in	"	"

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

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

PARAMETER AND FILTER SUMMARY REPORT					
File: /dat1a/625062/n970a03.prm LOGGING MODE: DEPTH DIRECTION: UP TOP DEPTH: 19.439 ft BOTTOM DEPTH: 1258.897 ft					

SYMMETRIC FILTER					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR MED RES	FILTER ()	medium (1)		TOP	BOTTOM
CALIPER	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
CN MED RES	FILTER ()	medium (1)		"	"
ZDL MED RES	FILTER (hrd1*)	medium		"	"
	FILTER (hrd1a*)	medium		"	"
	FILTER (hrd2*)	medium		"	"
	FILTER (hrd2a*)	medium		"	"
	FILTER (soft*)	medium		"	"

SP-SPDH	FILTER Q	heavy (3)	"	"	
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	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		"	"
	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	8.750	in	"	"
	FIXED DIAMETER (mbh*)	8.750	in	"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	70.0	degF	"	"
	MUD SAMPLE RES	0.550	ohm.m	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"
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	"	"

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

CN PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CN MATRIX	2436 MATRIX	SANDSTONE		TOP	BOTTOM
CN BOREHOLE CORRECTION	SALINITY	650	ppm	"	"
	BOREHOLE CORRECTION	ON		"	"
CN TOOL STANDOFF	ENABLE STANDOFF CORR	OFF		"	"
	STANDOFF AMOUNT	0.00	in	"	"
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE BEHIND CSNG	13.500	in	"	"

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

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

CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Feb 20 19:08:18 2014	BIT SIZE
F1:BVOL	Feb 20 19:08:18 2014	BOREHOLE VOLUME
F1:CAL	Feb 20 19:08:18 2014	CALIPER
F1:CNCF	Feb 20 16:44:21 2014	FIELD NORMALIZED COMPENSATED NEUTRON POROSITY
F1:CVOL	Feb 20 19:08:18 2014	CEMENT VOLUME
F1:GR	Feb 20 19:08:18 2014	GAMMA RAY
F1:M2R1	Feb 20 19:08:18 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI
F1:M2R6	Feb 20 19:08:18 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	Feb 20 19:08:18 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:PE	Feb 20 16:44:21 2014	PHOTO ELECTRIC CROSS-SECTION
F1:PORZ	Feb 20 16:44:21 2014	POROSITY FOR SELECTABLE MATRIX
F1:SP	Feb 20 19:08:18 2014	SPONTANEOUS POTENTIAL
F1:TEN	Feb 20 19:08:18 2014	DIFFERENTIAL TENSION
F1:ZCOR	Feb 20 16:44:21 2014	DENSITY CORRECTION

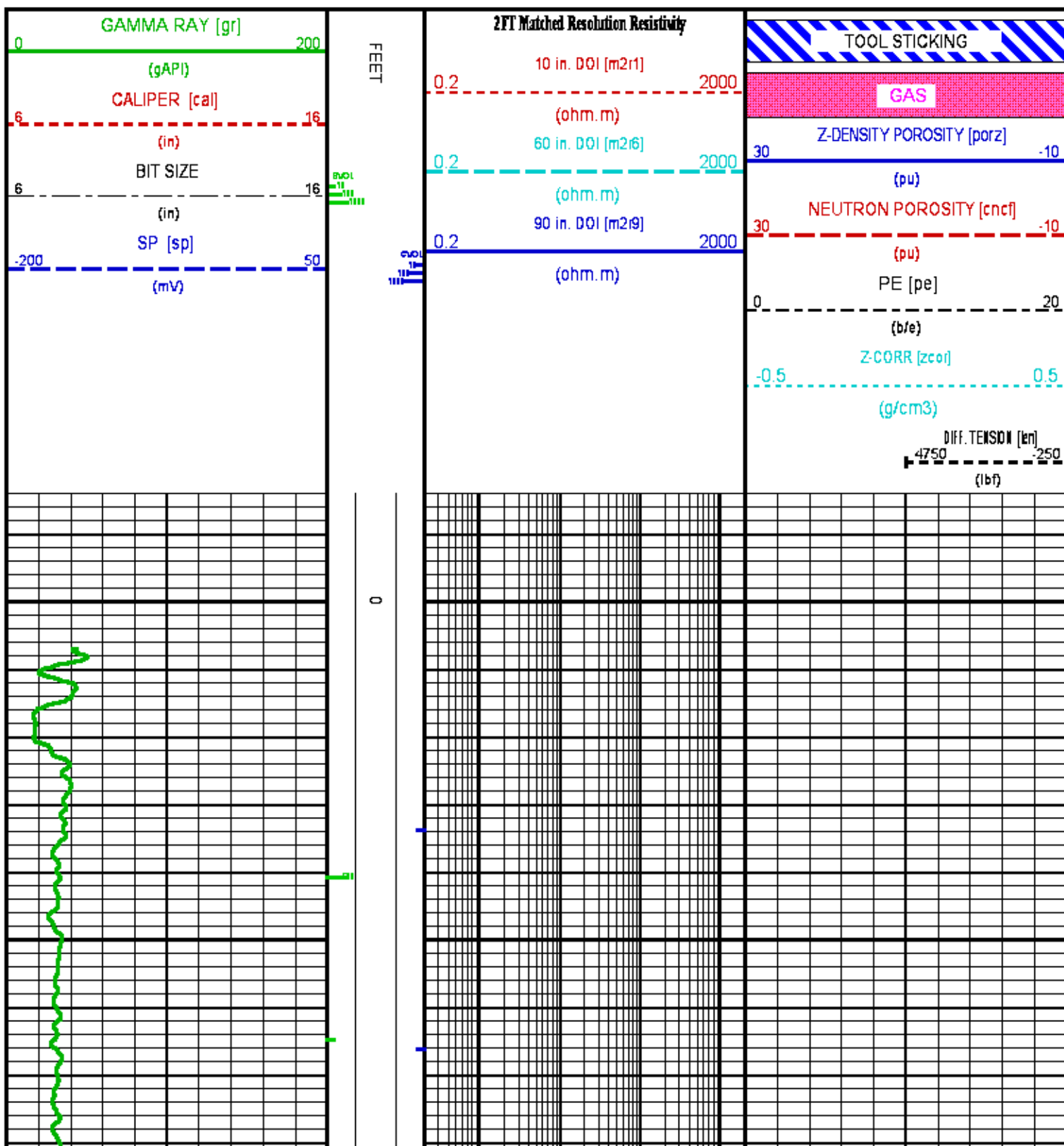
CURVE MEASURE POINT OFFSET		
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CURVE MEASURE POINT OFFSET

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

Presentation : HL6670:WPX MAIN.fvpdf [5"/100' Scale]
 Plot Interval : -14.75 - 8811.5 Feet

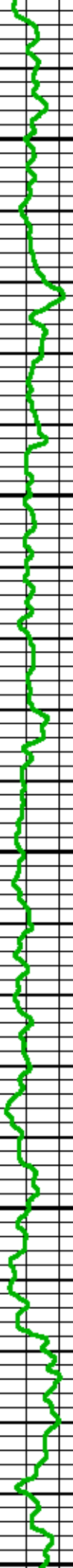
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 Created On : Feb 20 16:44:21 2014
 Company : WPX ENERGY INC
 Well : SAVAGE RWF 322-25
 Field : RULISON
 File Interval : -14.75 - 8811.5 Feet
 OCT : n970a

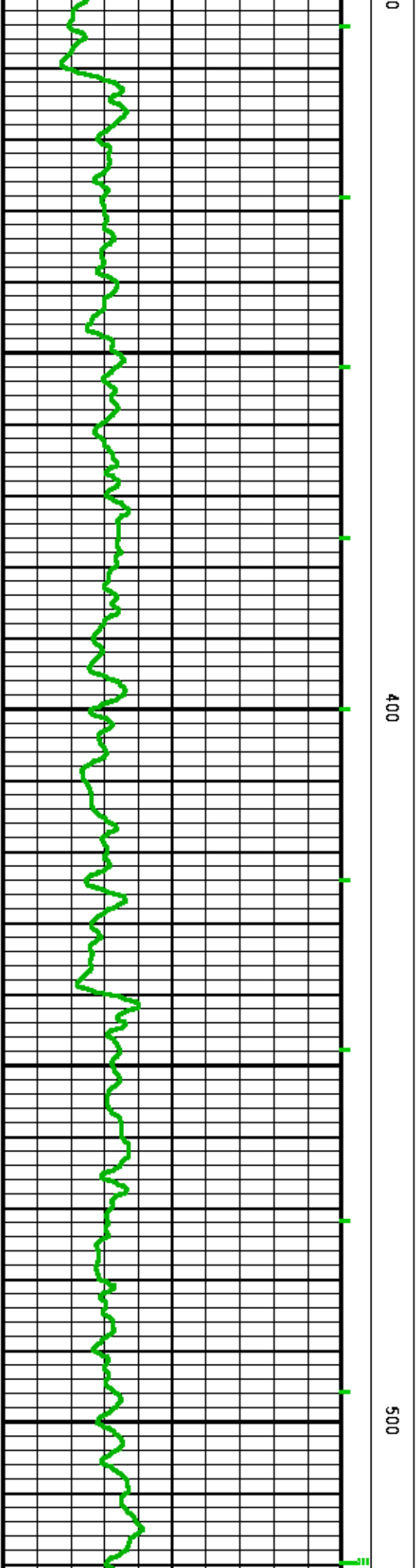
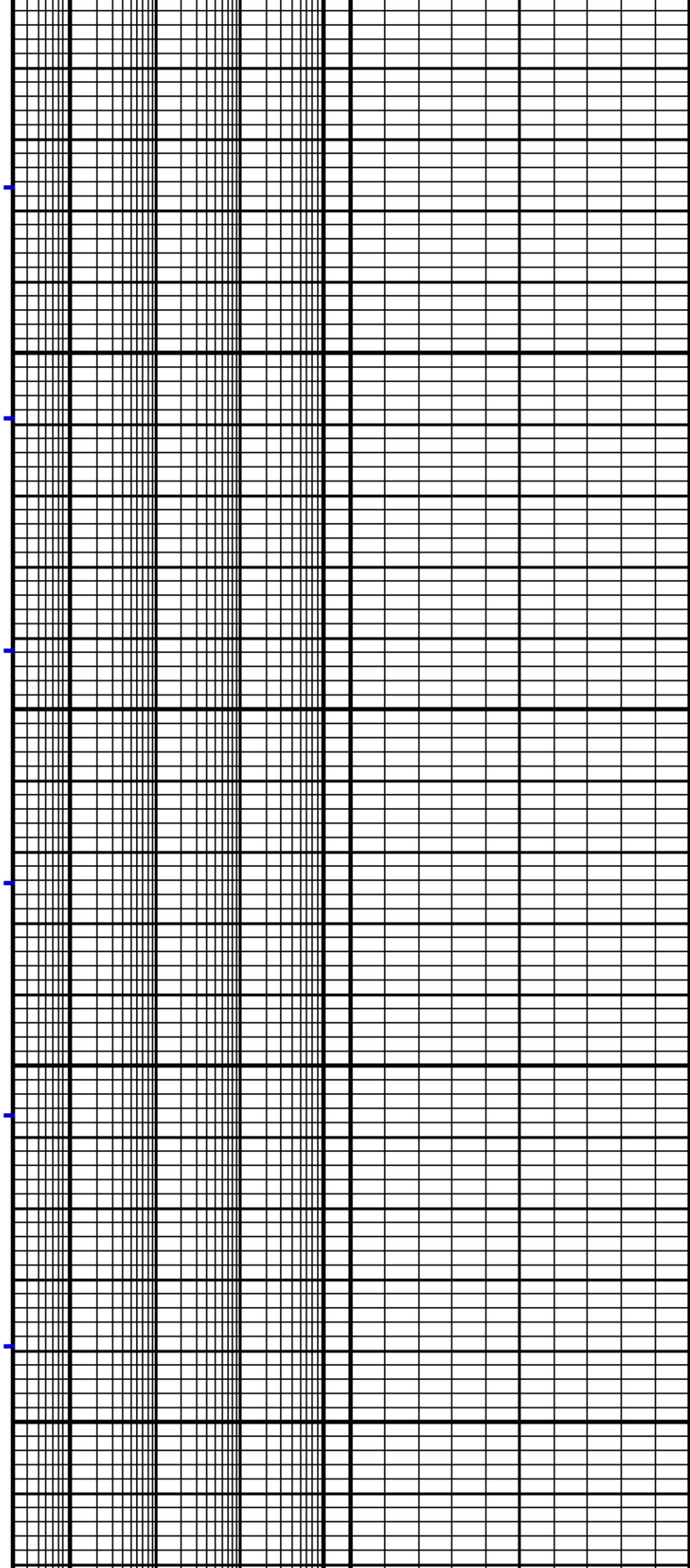


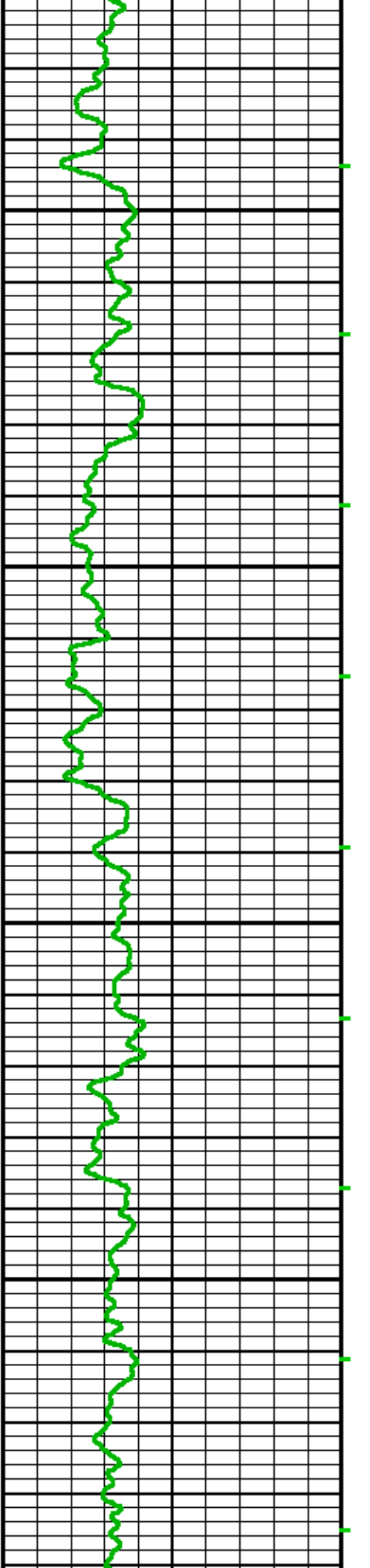
100

200

30

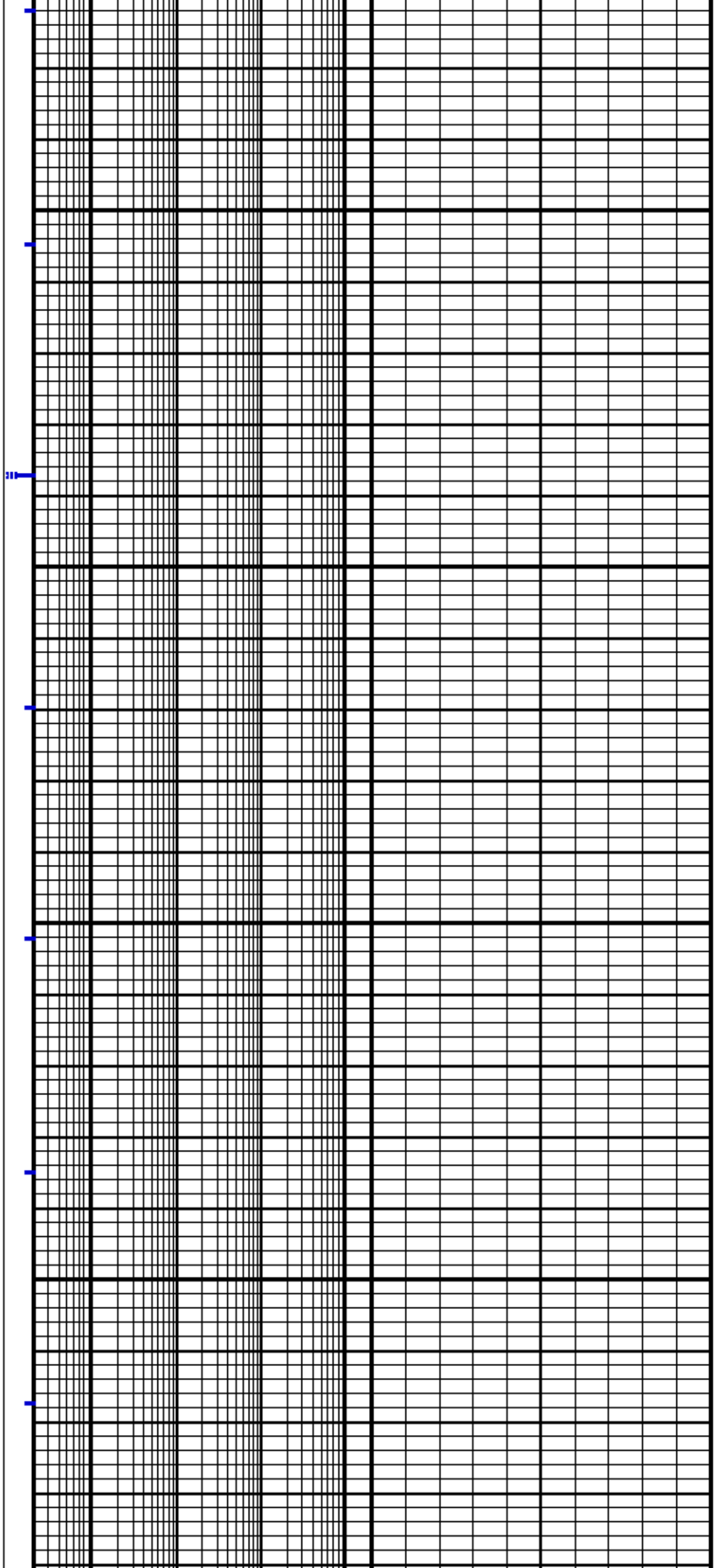


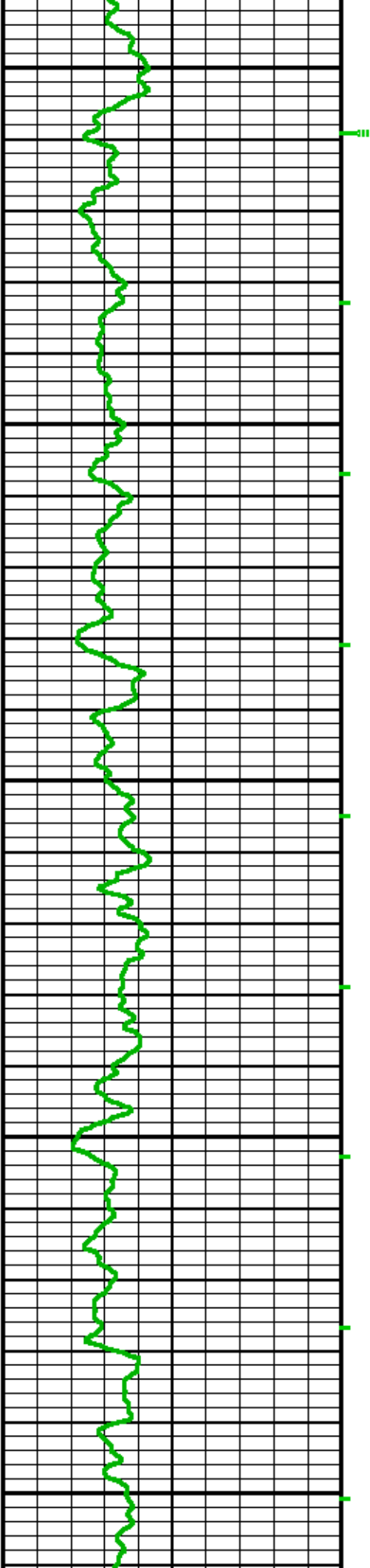




600

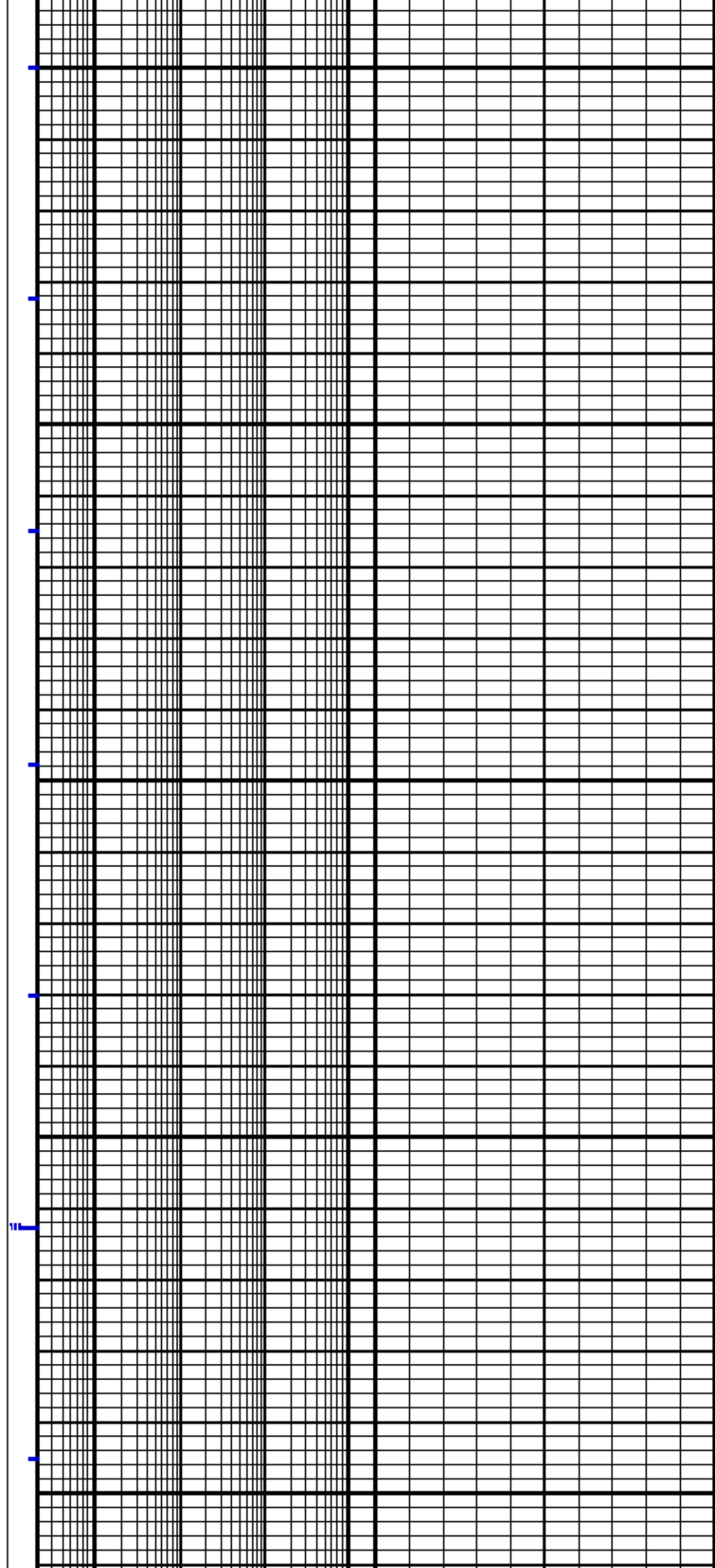
700

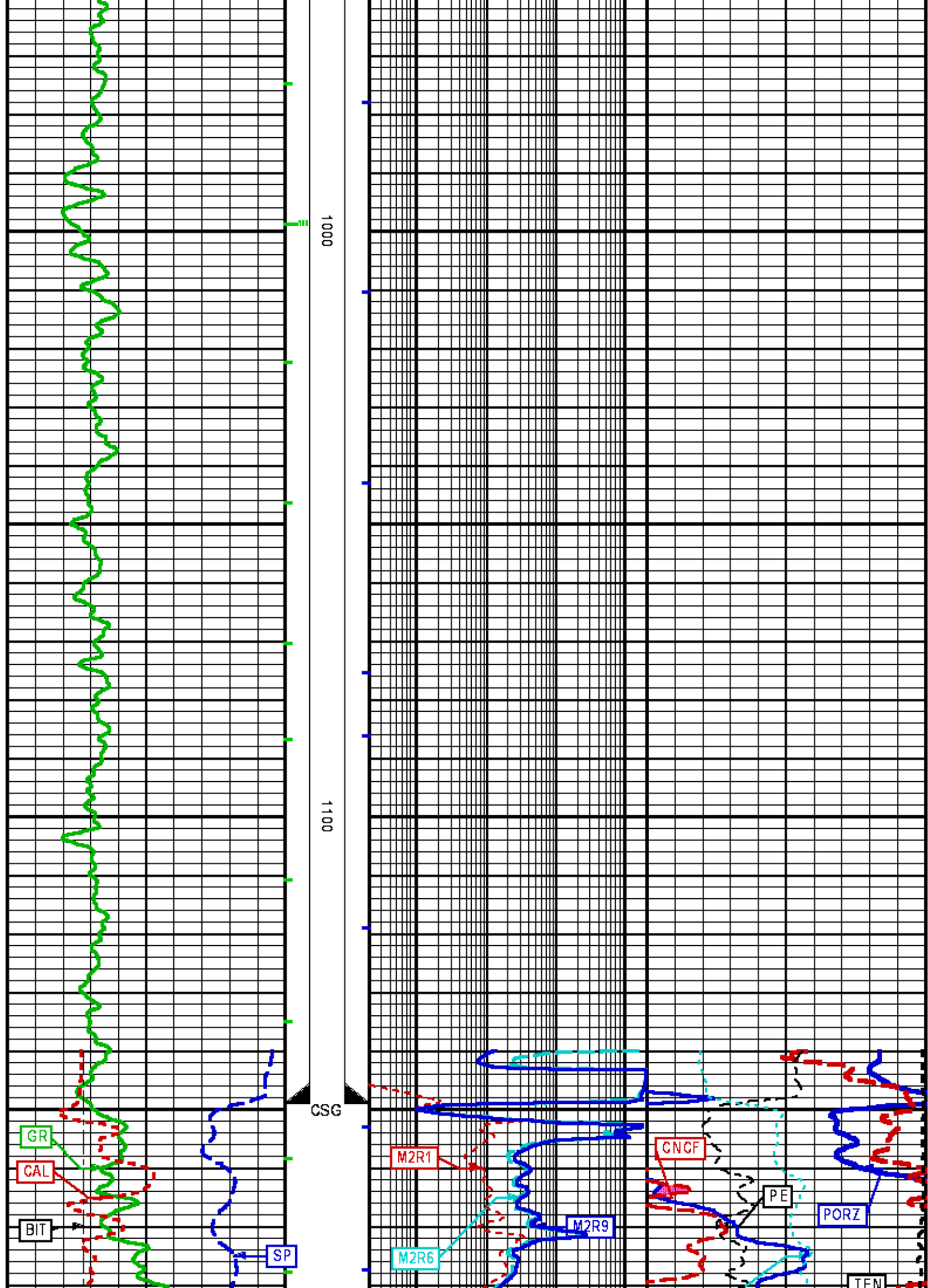


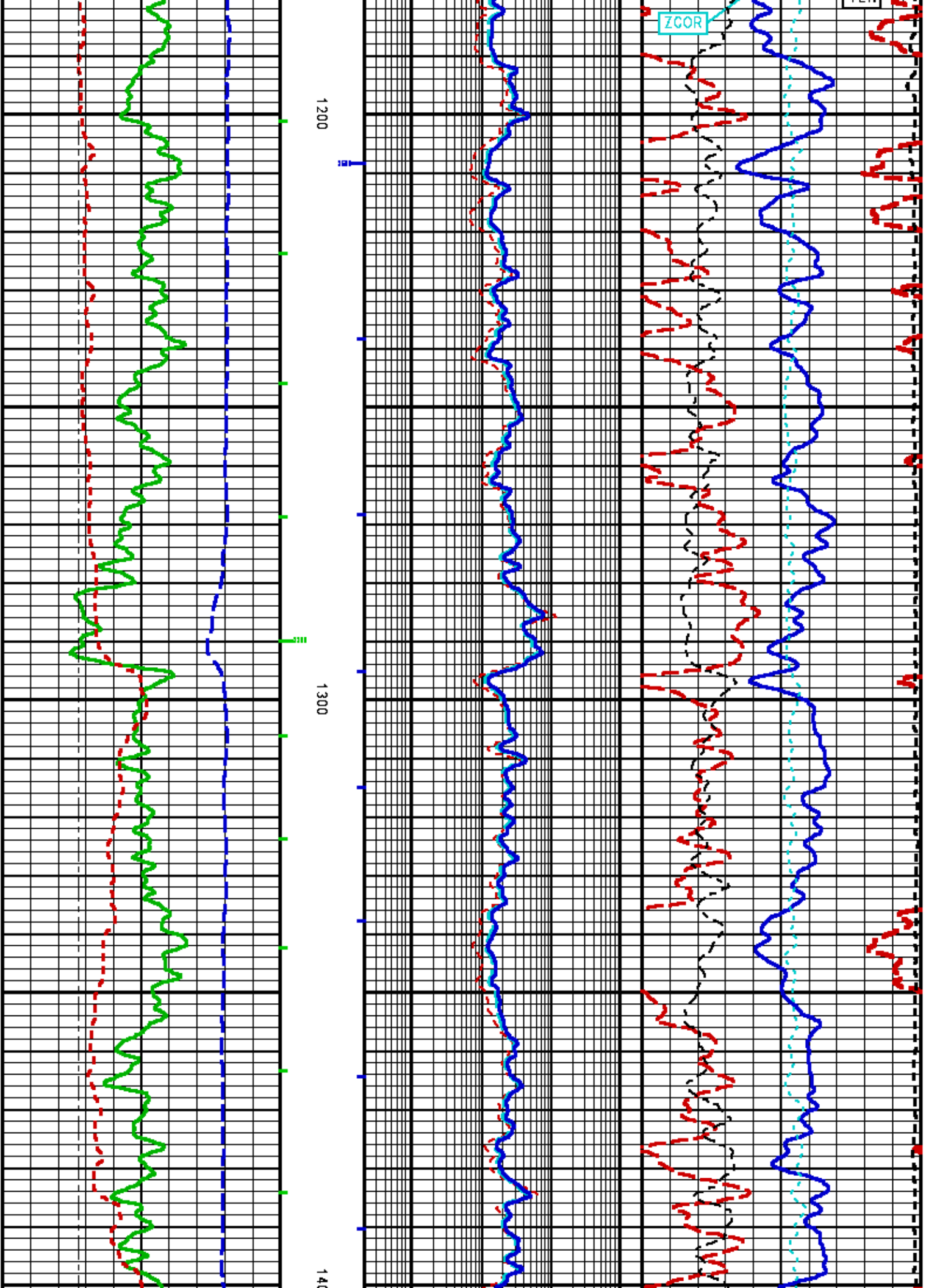


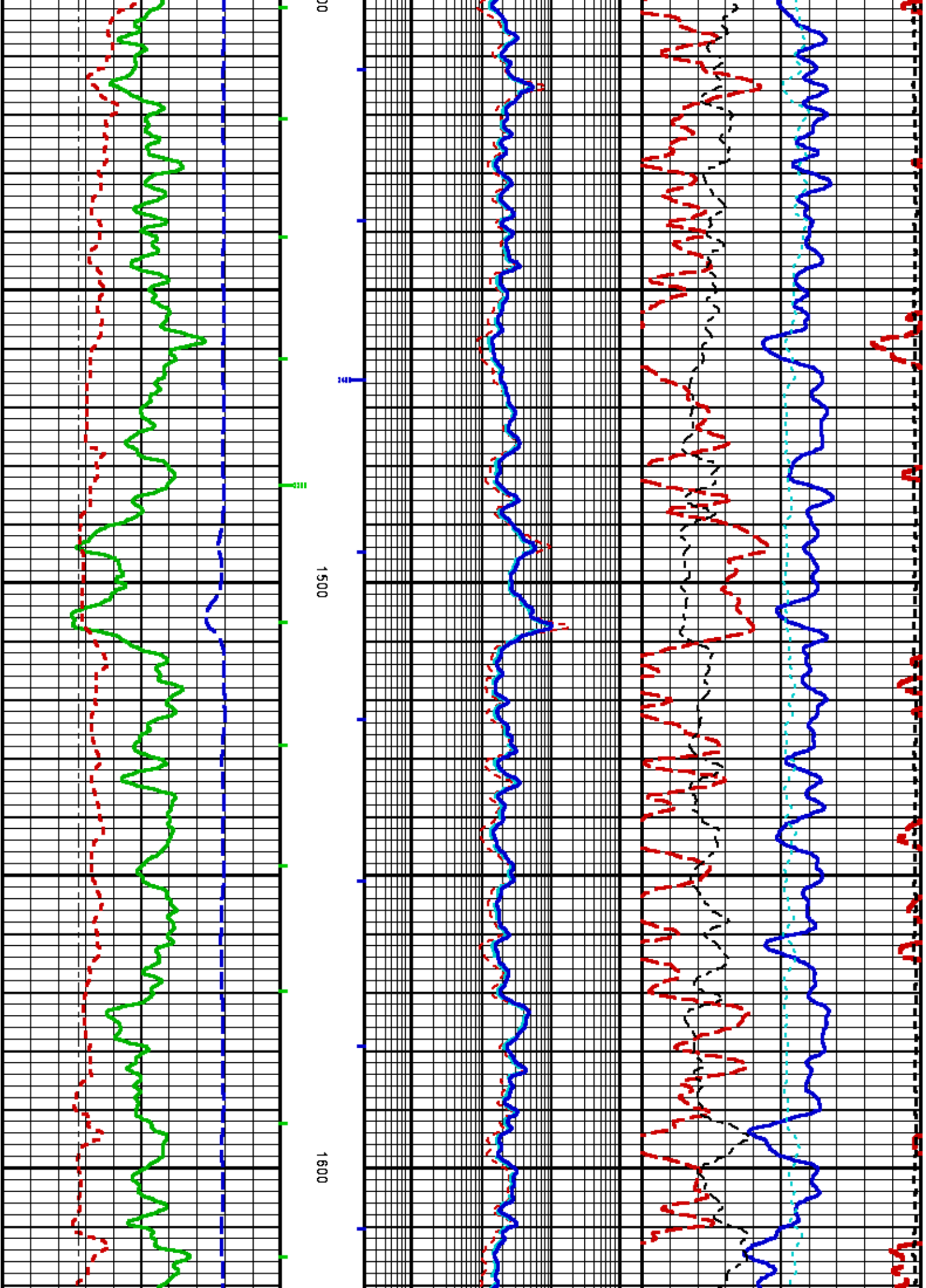
008

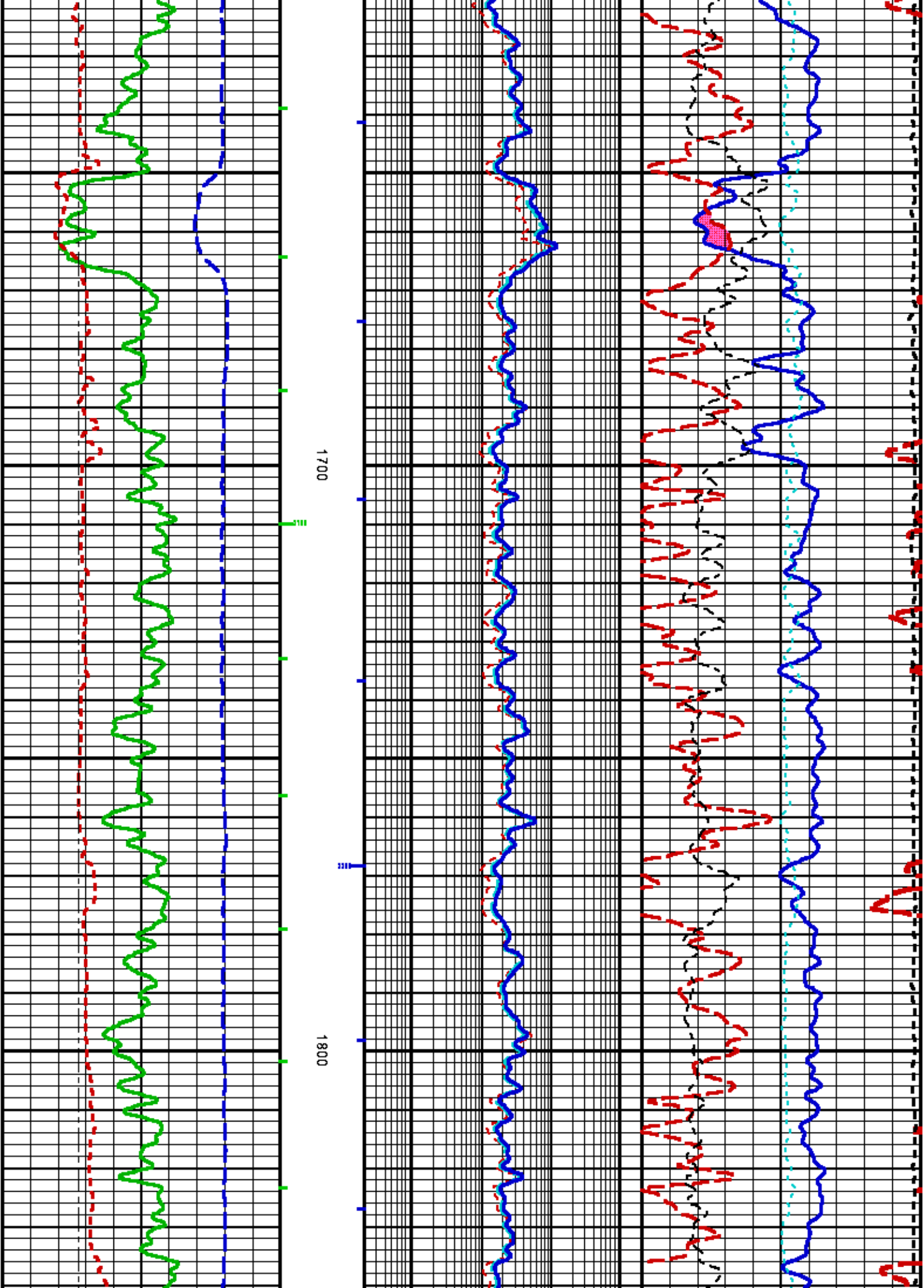
006

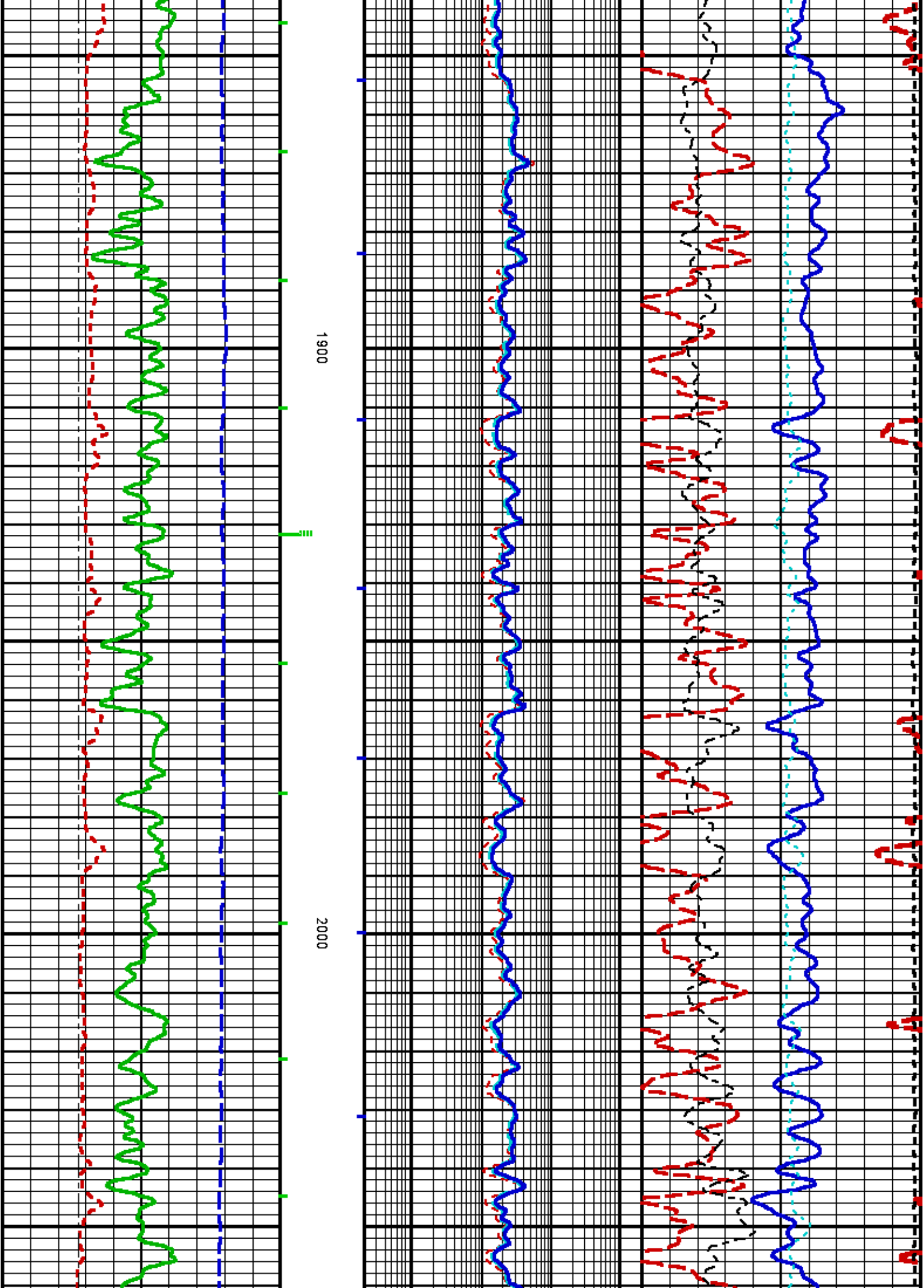


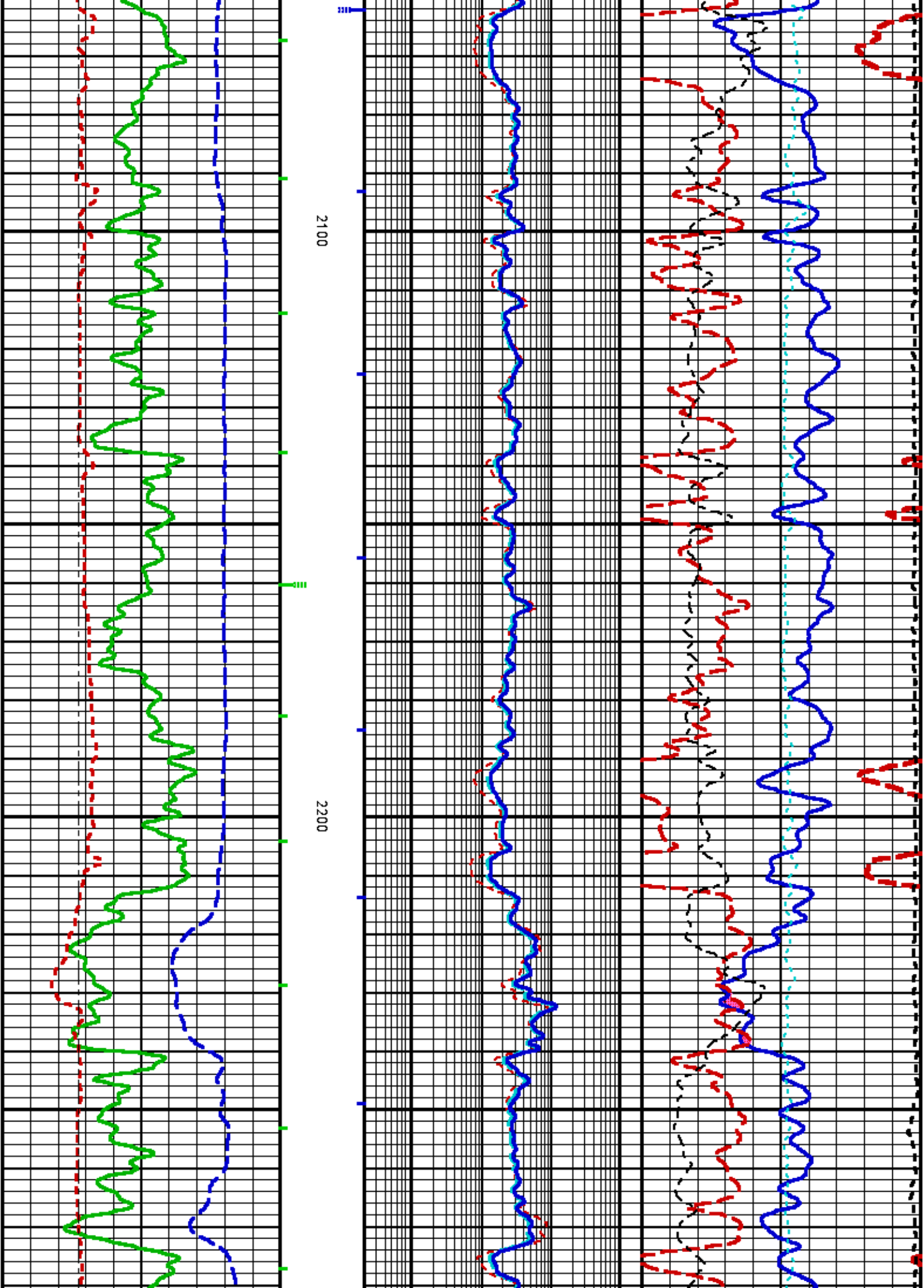


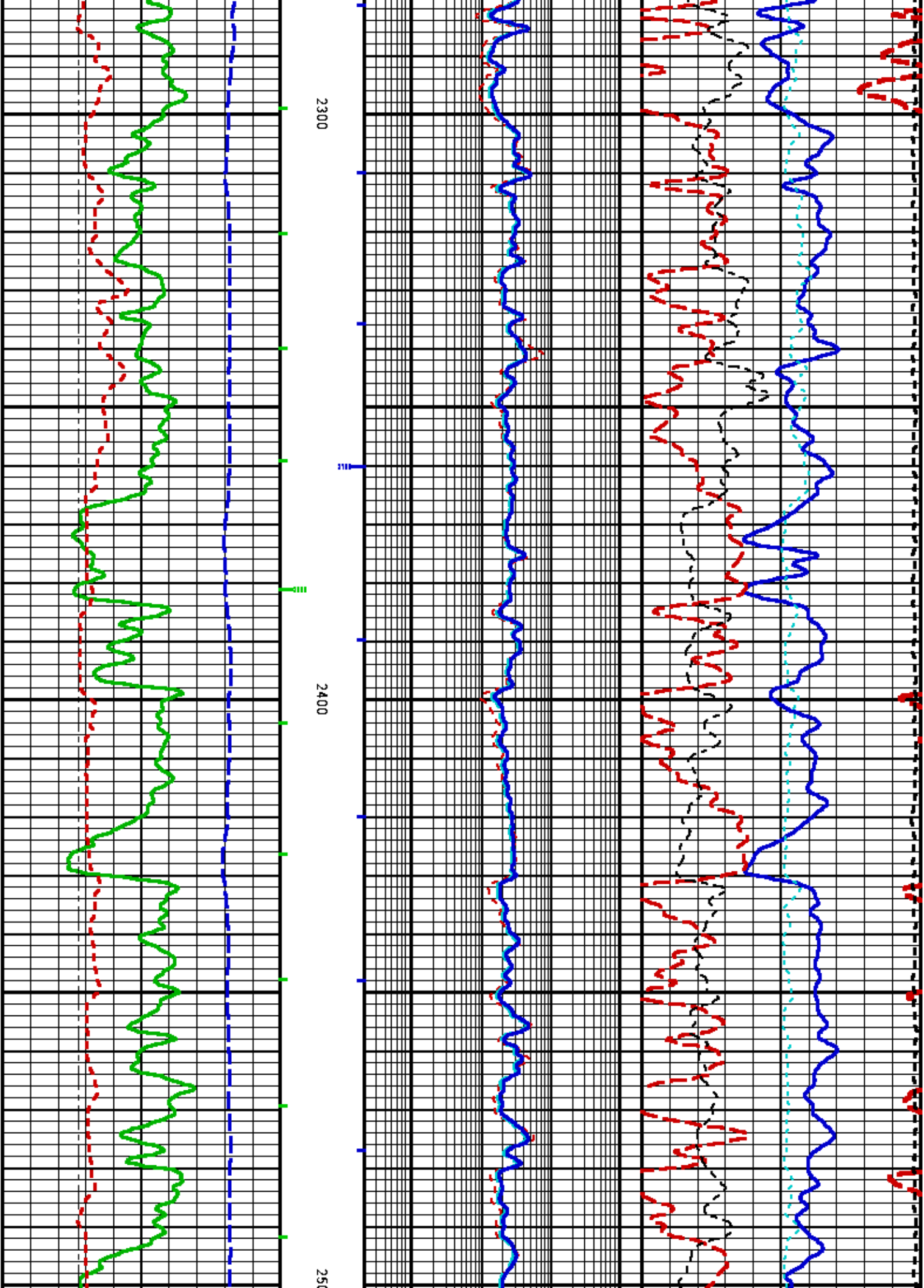


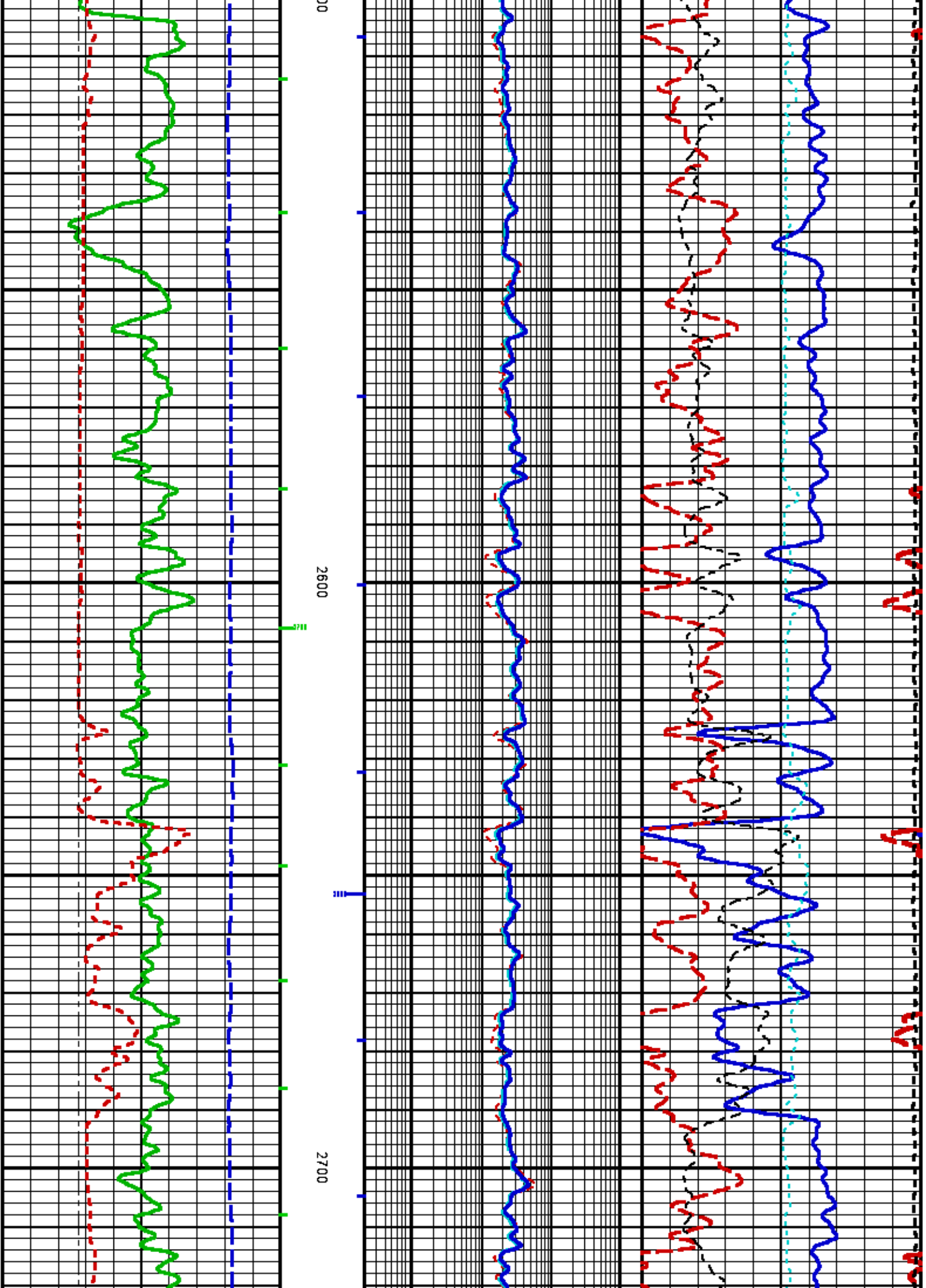


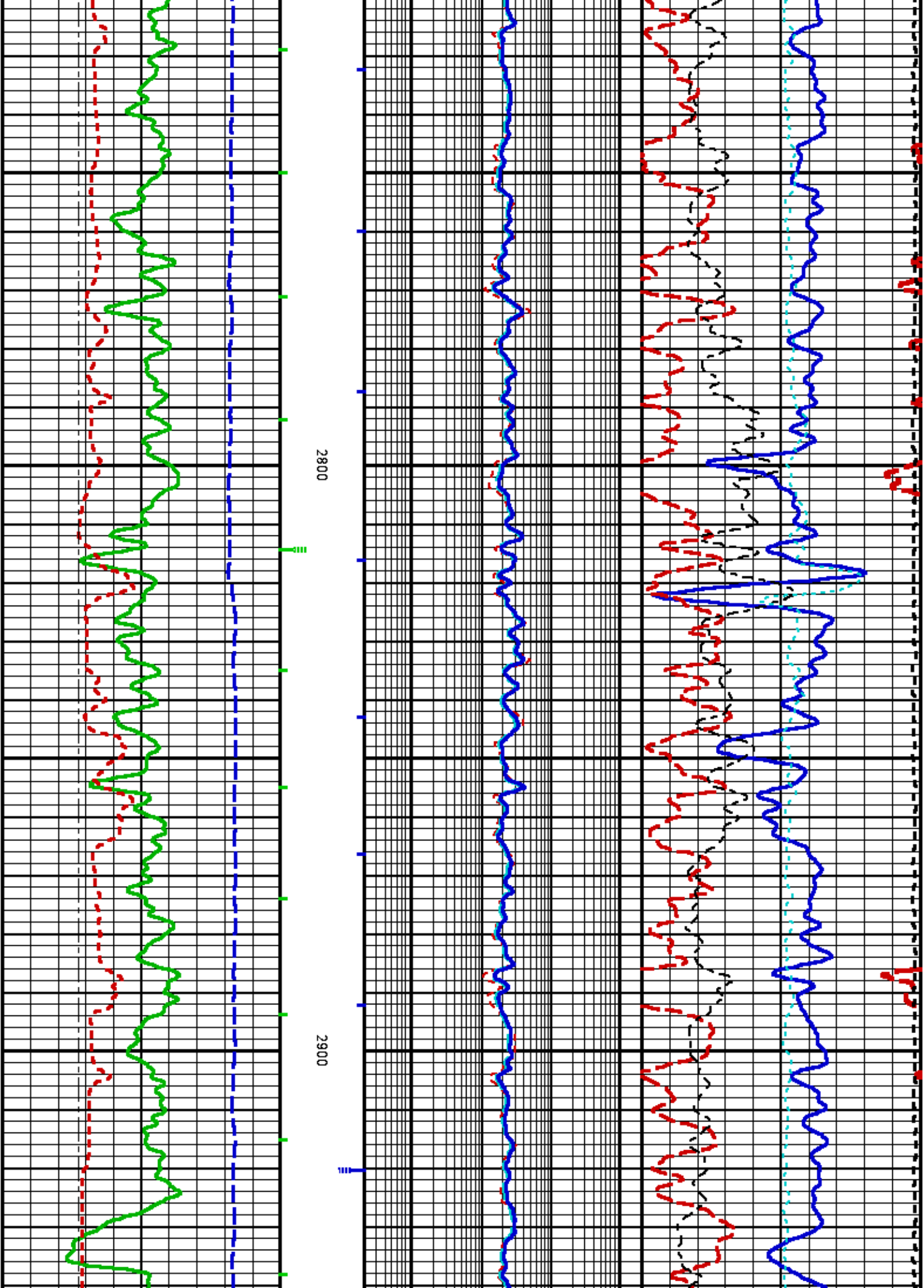


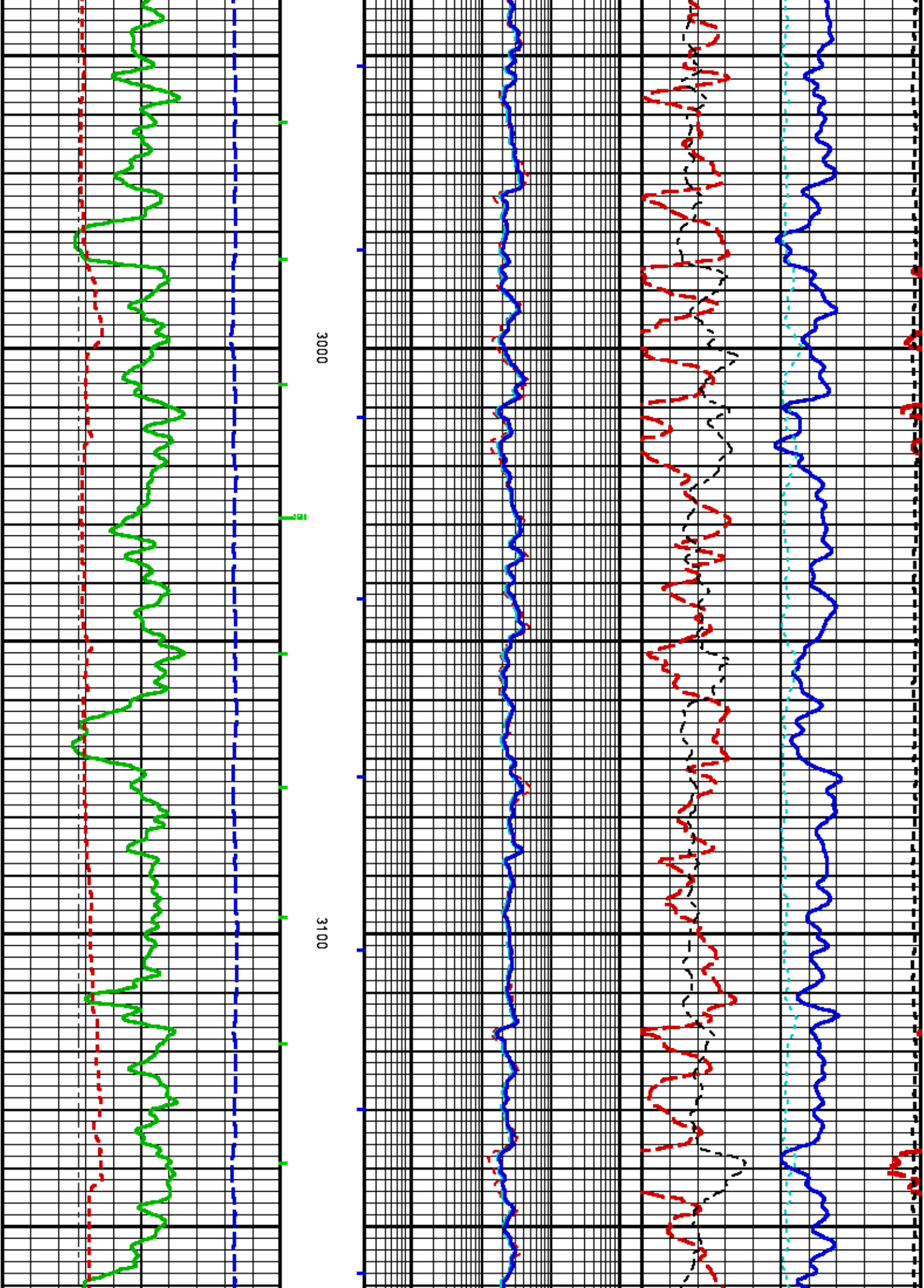


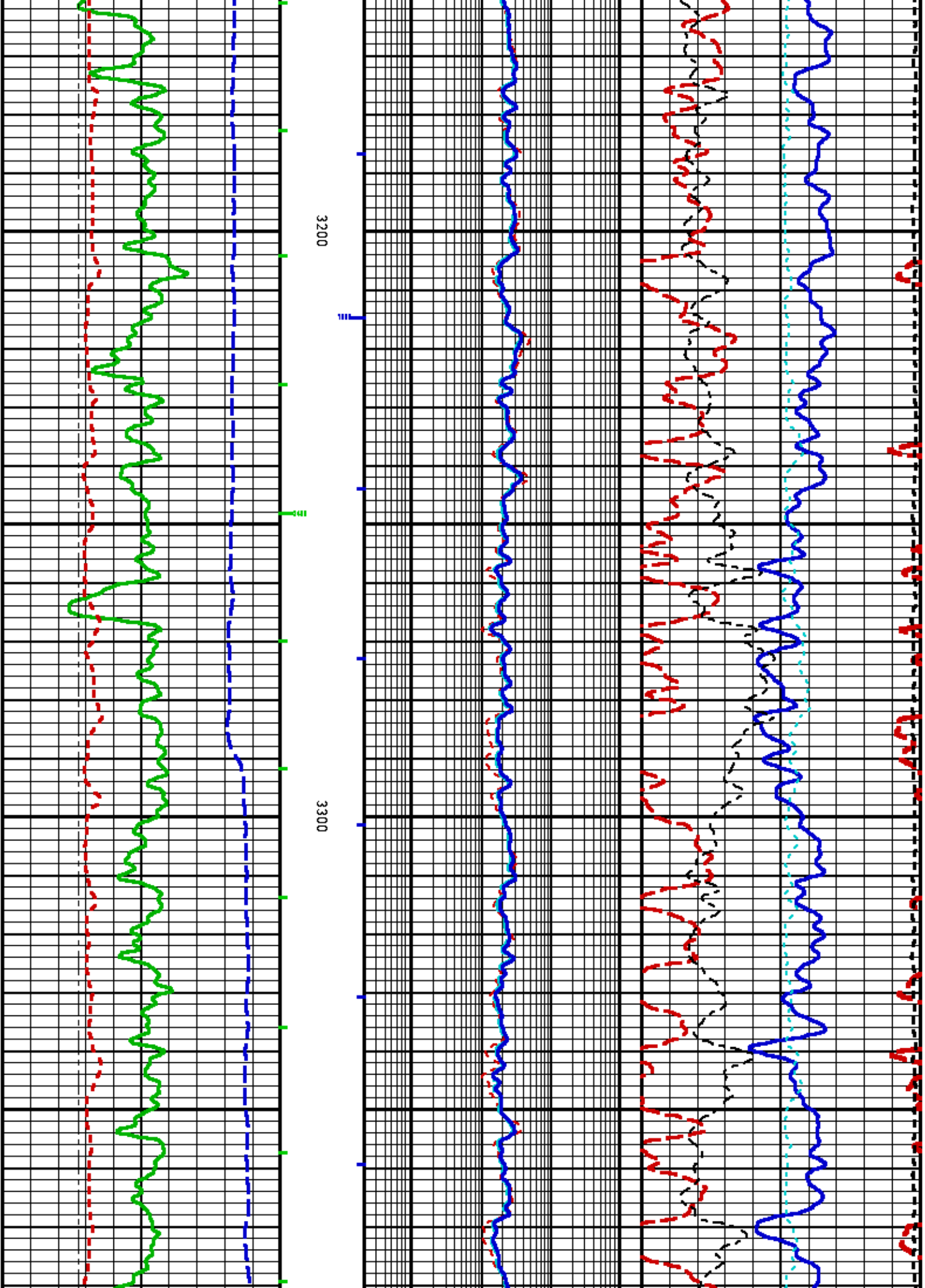


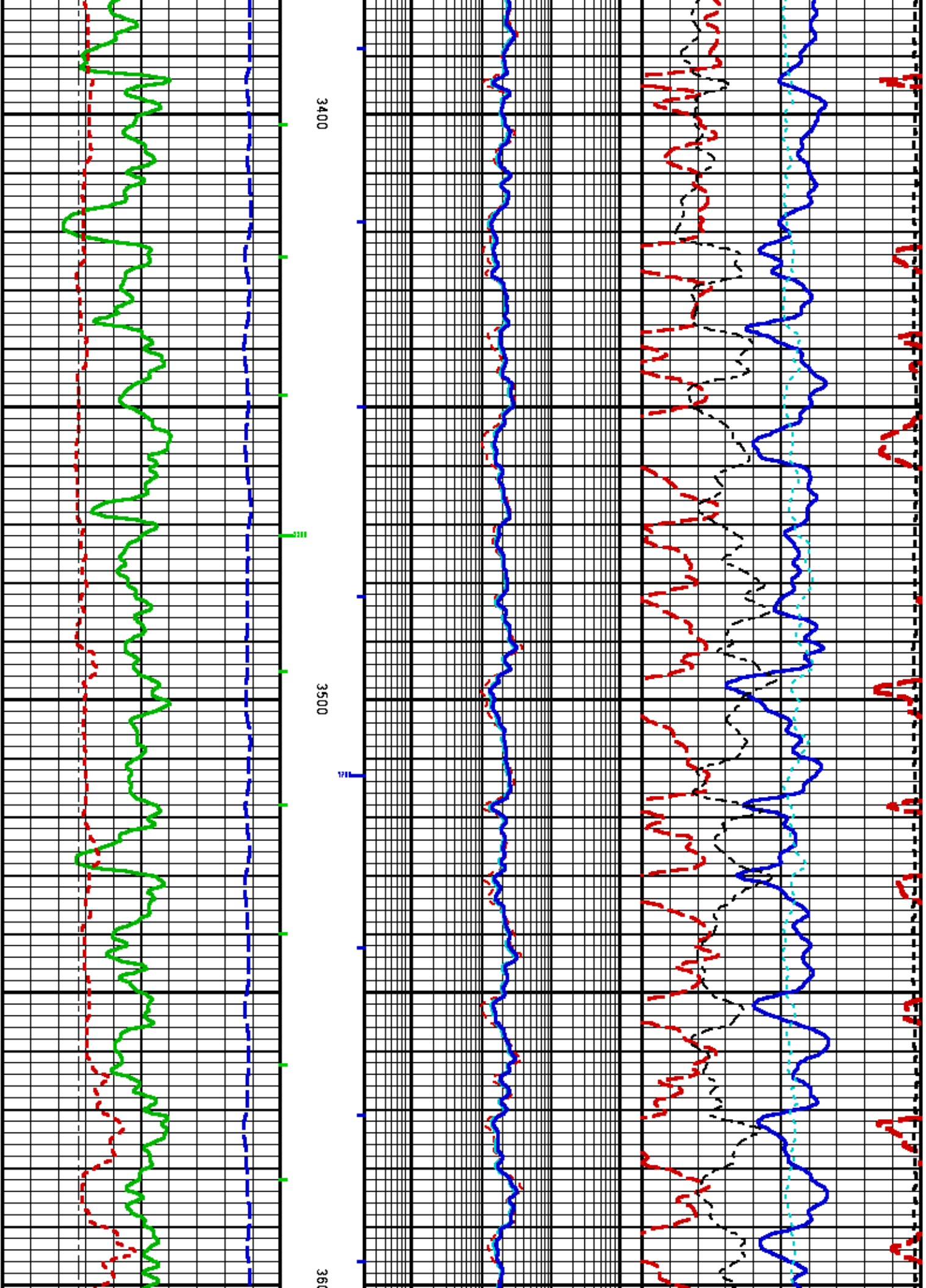


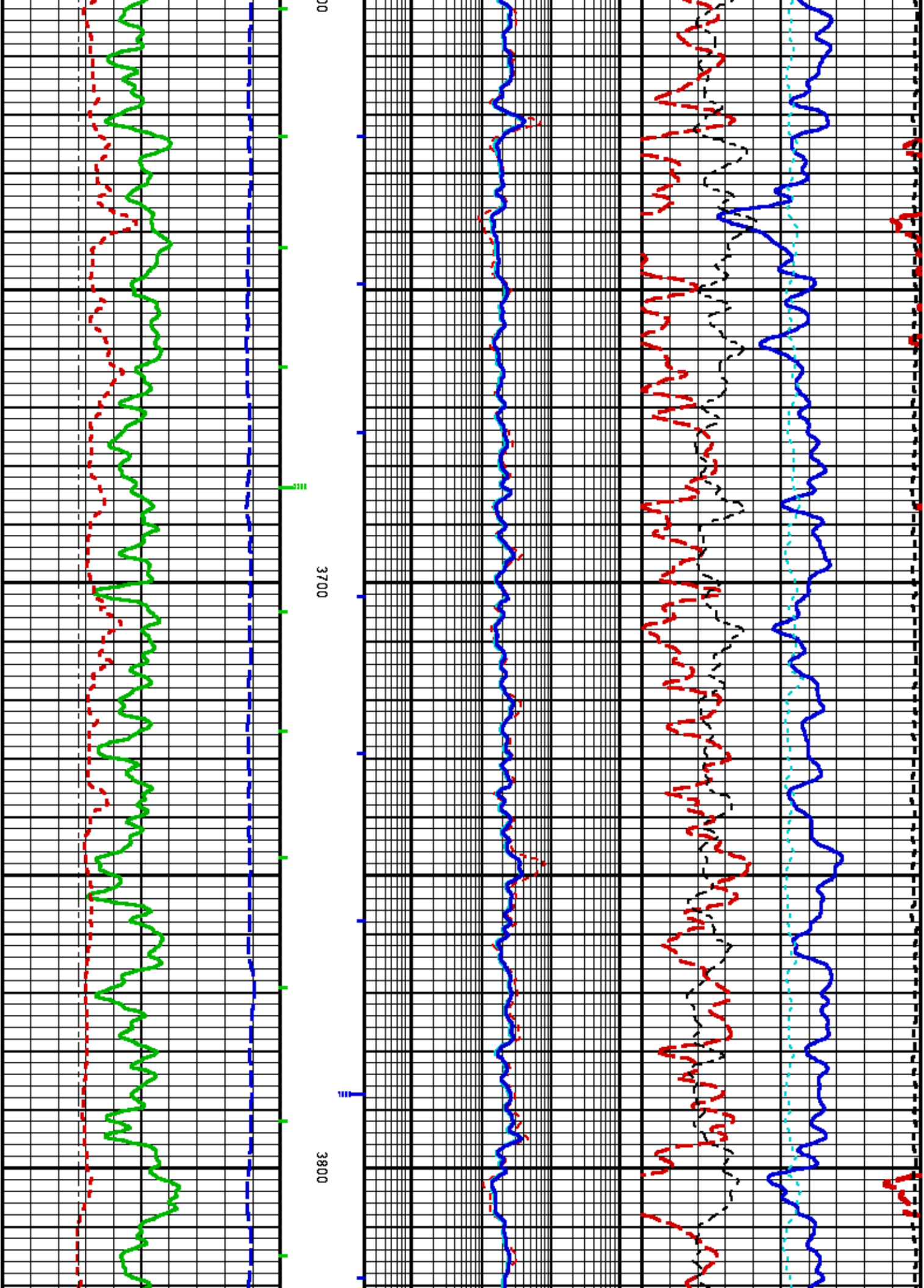


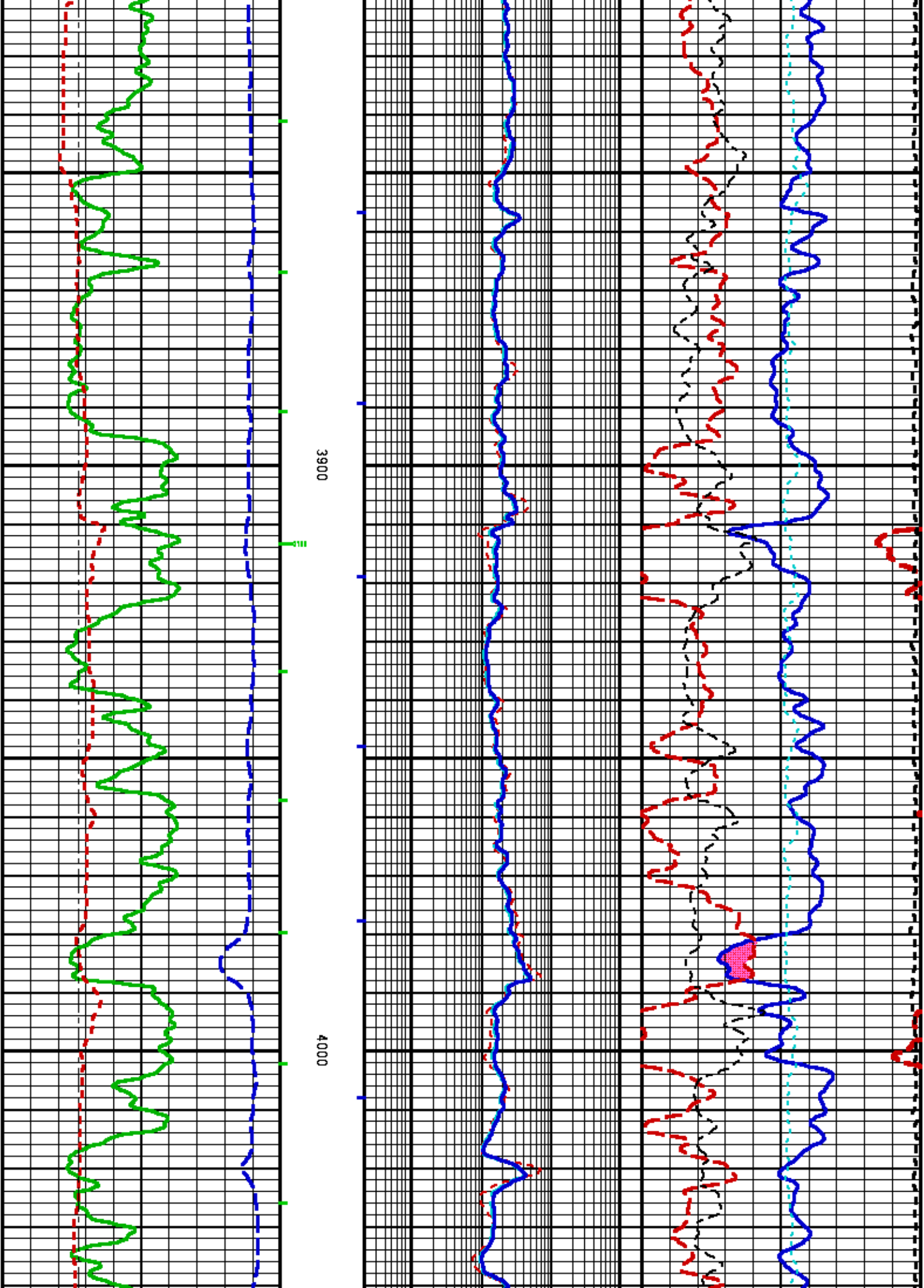


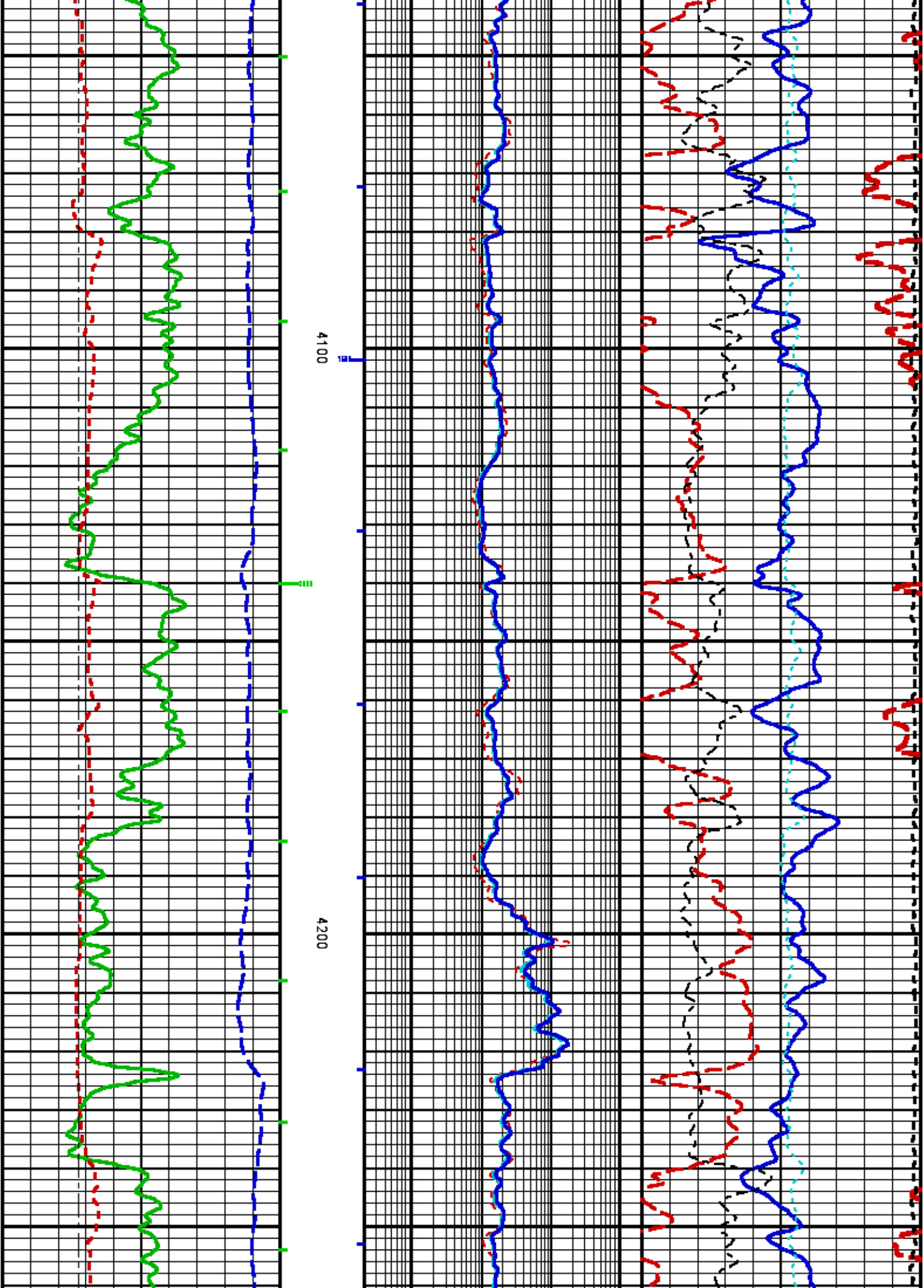


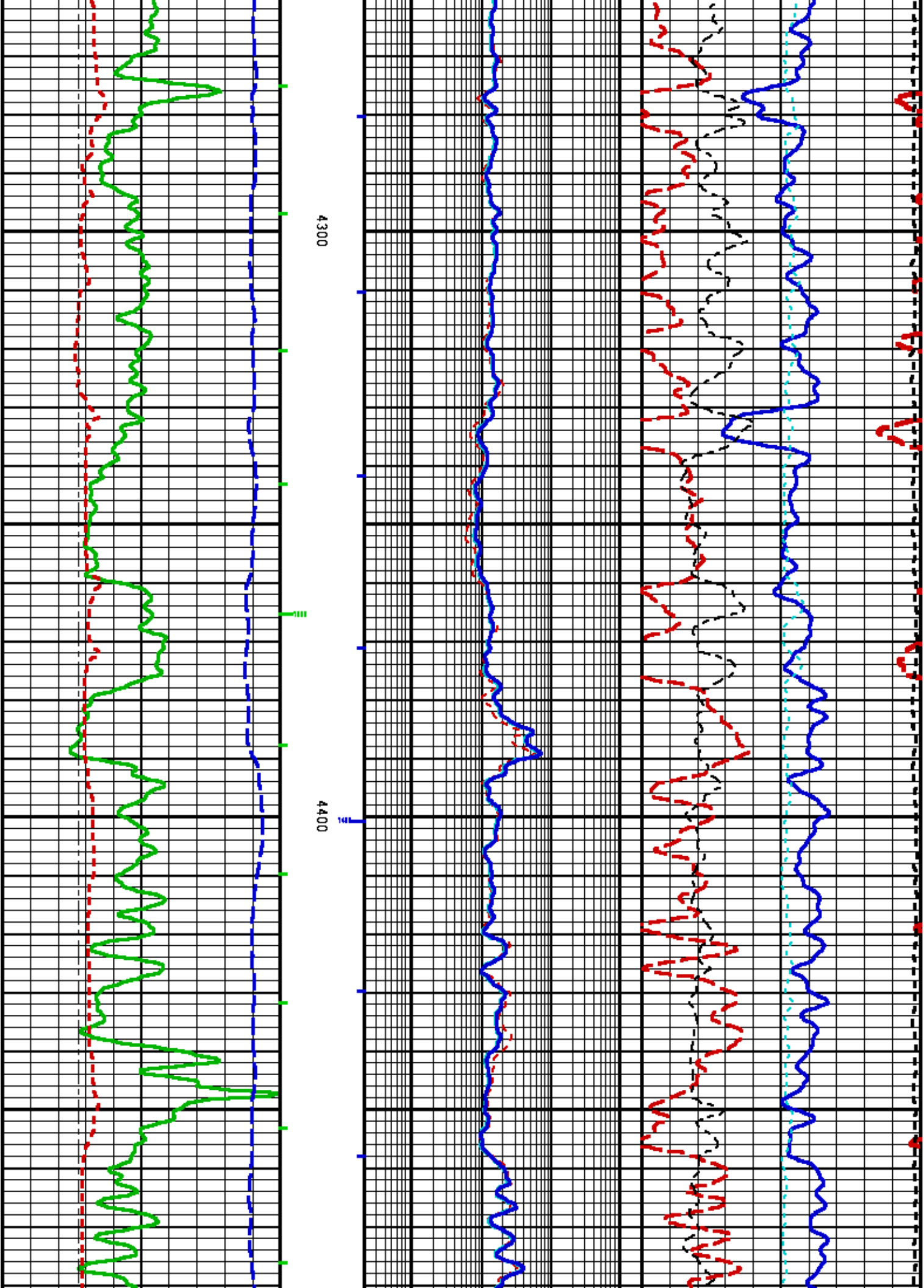


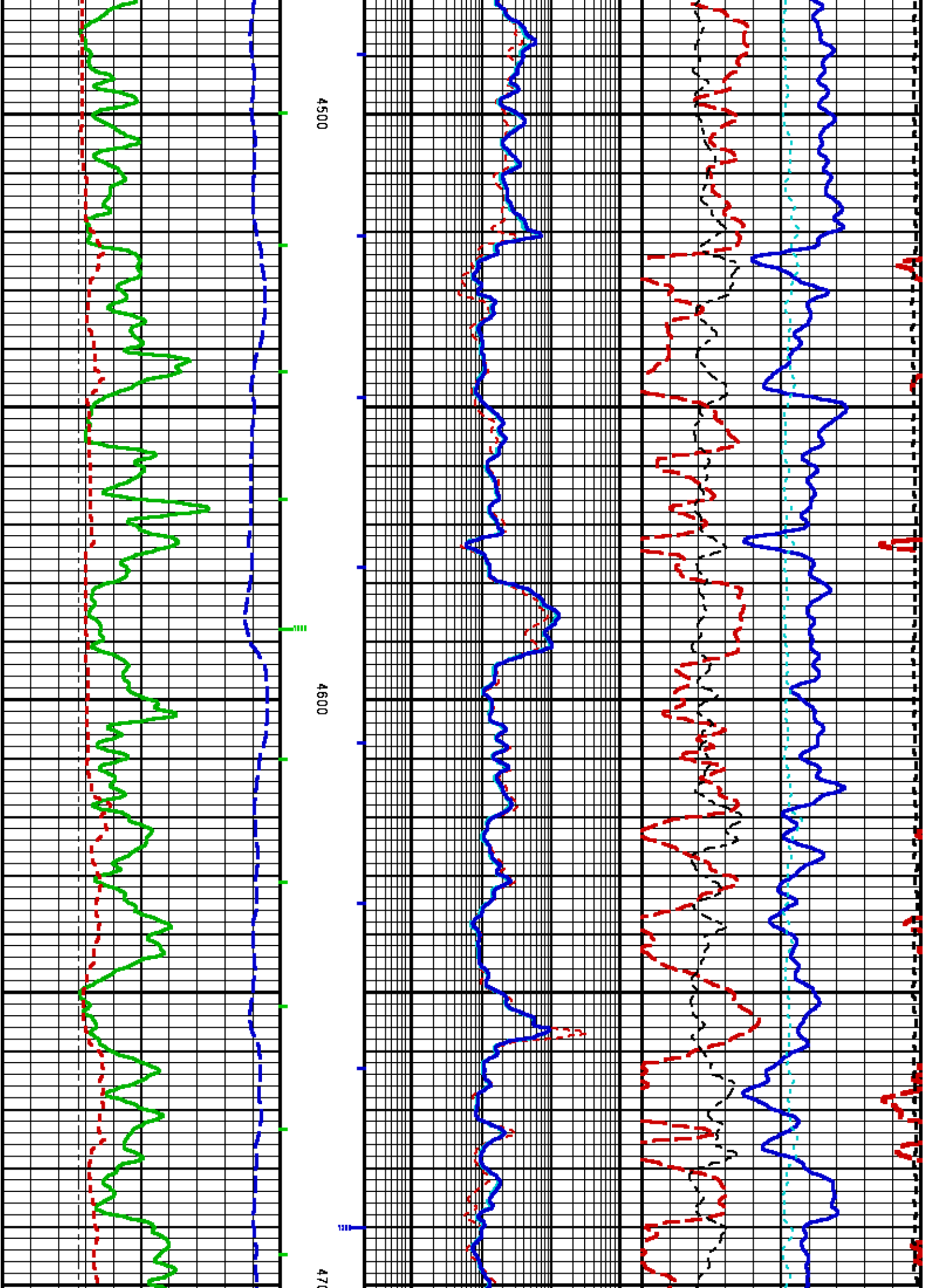


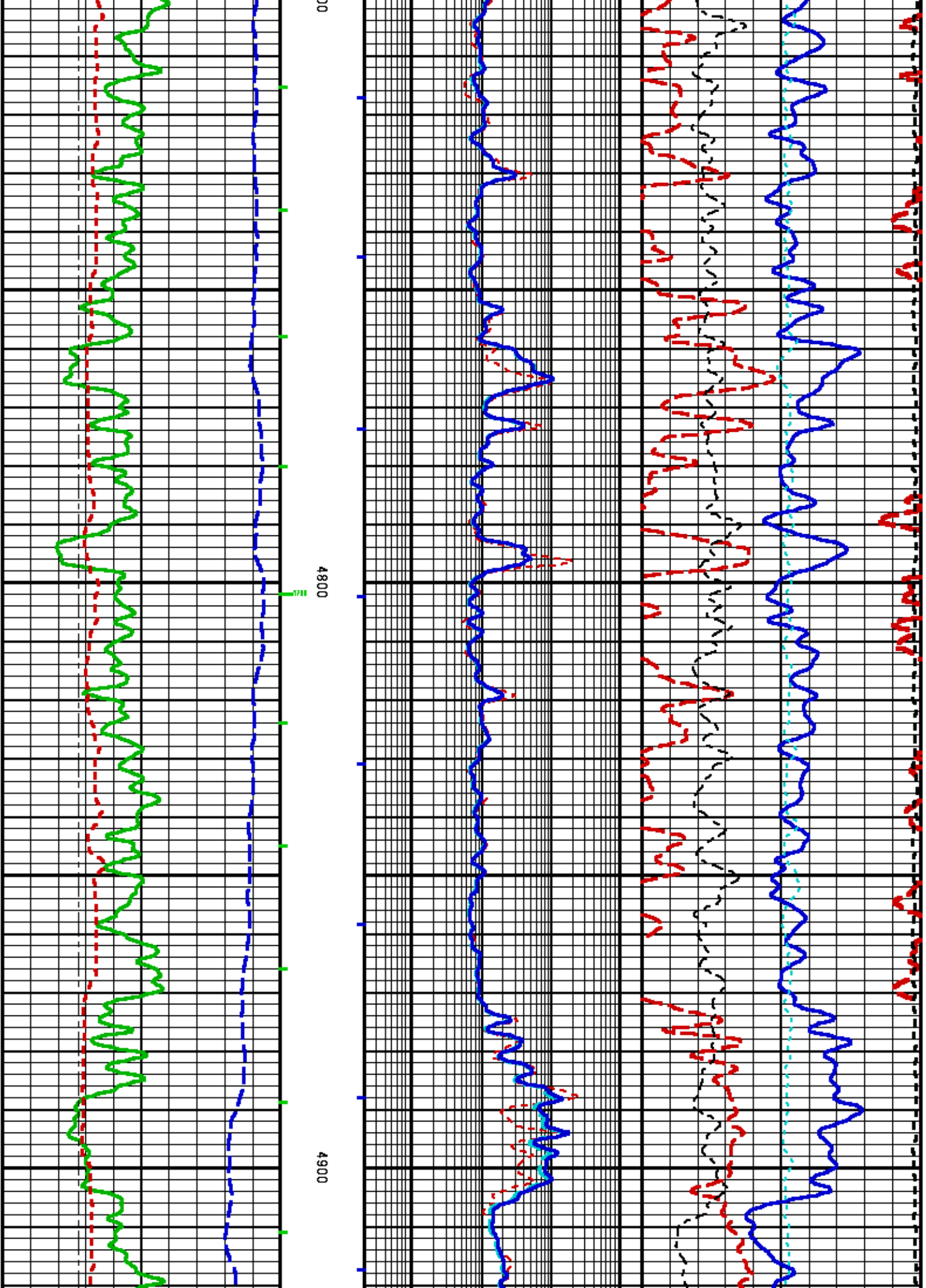


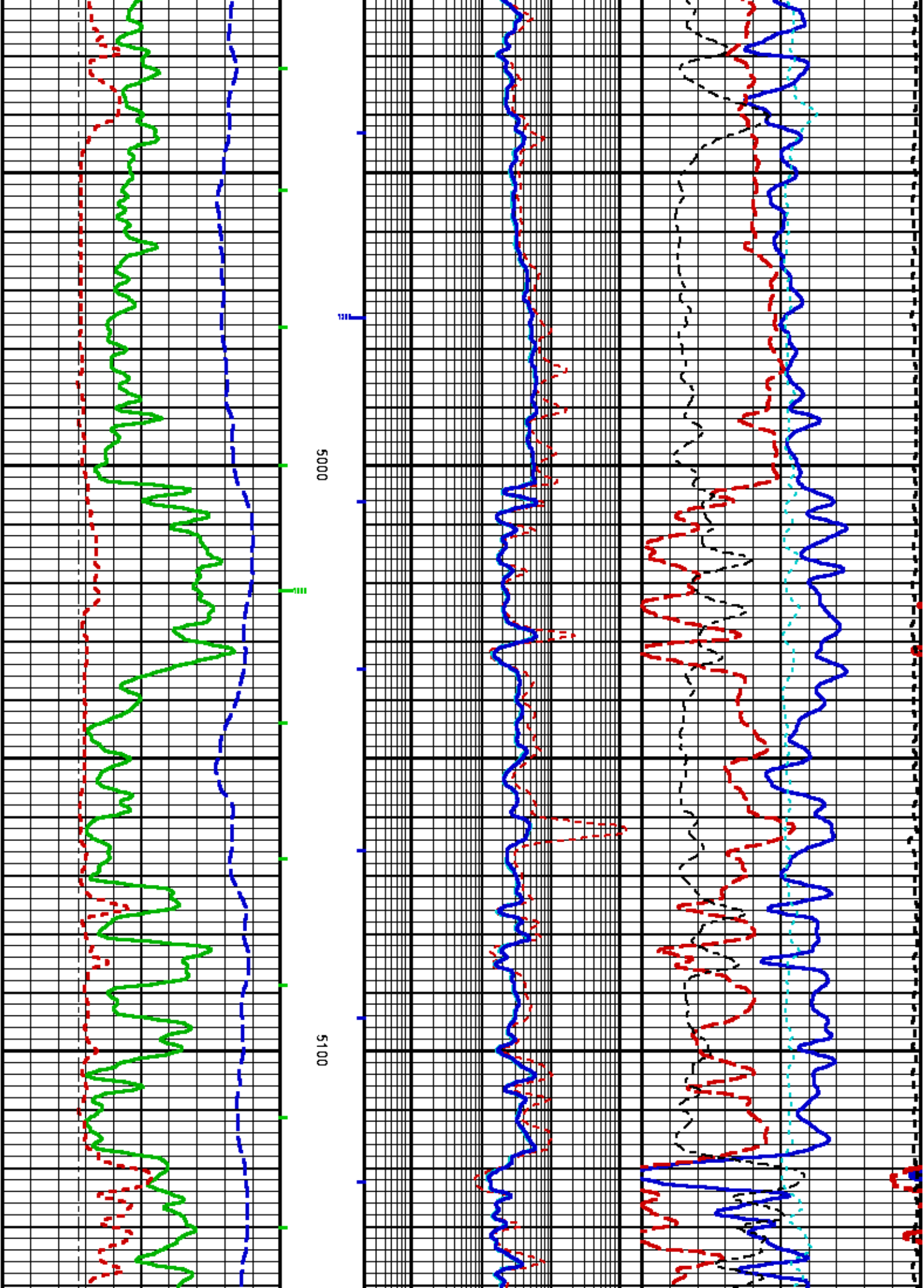


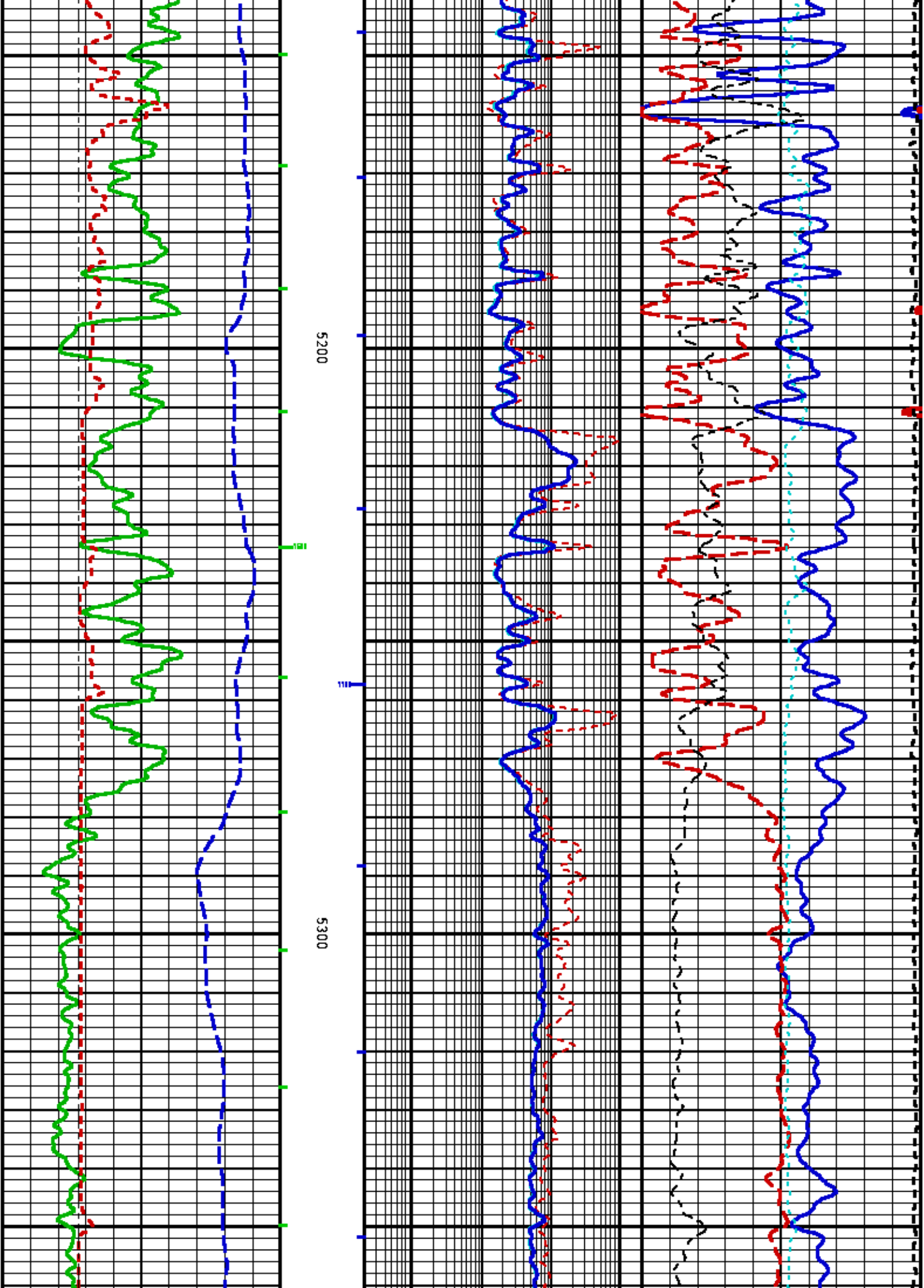


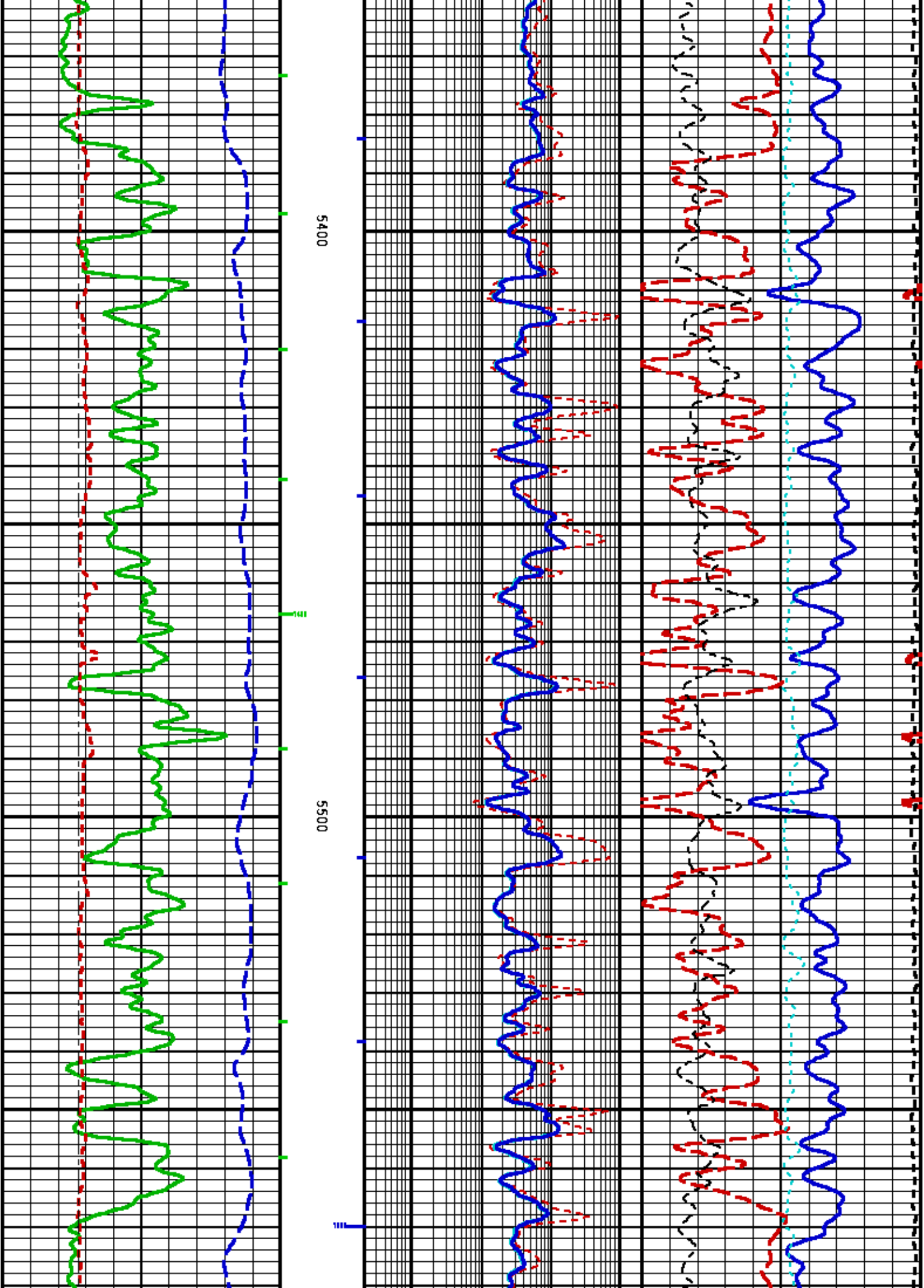


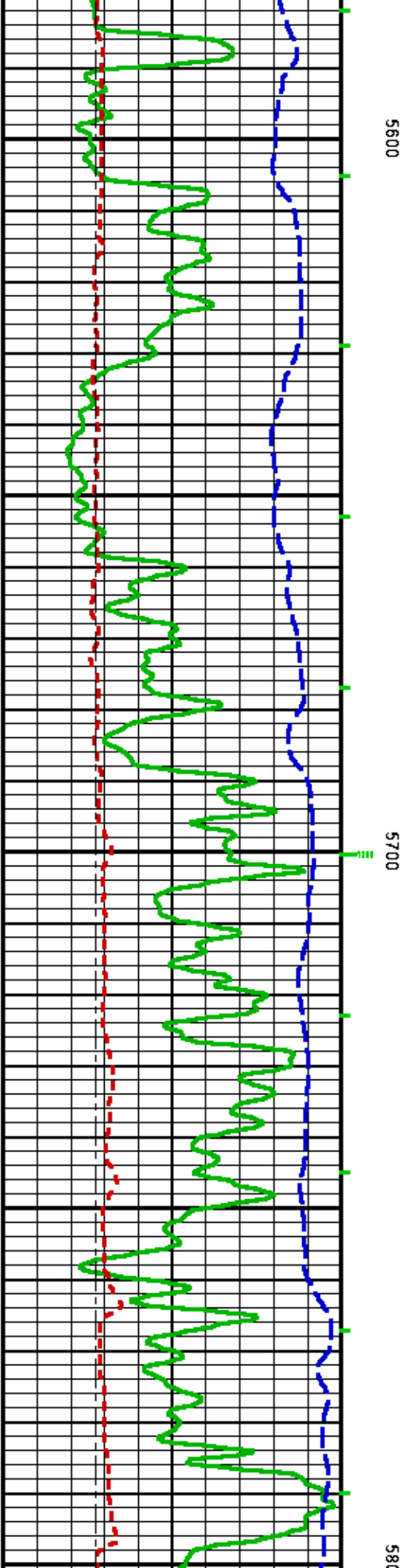
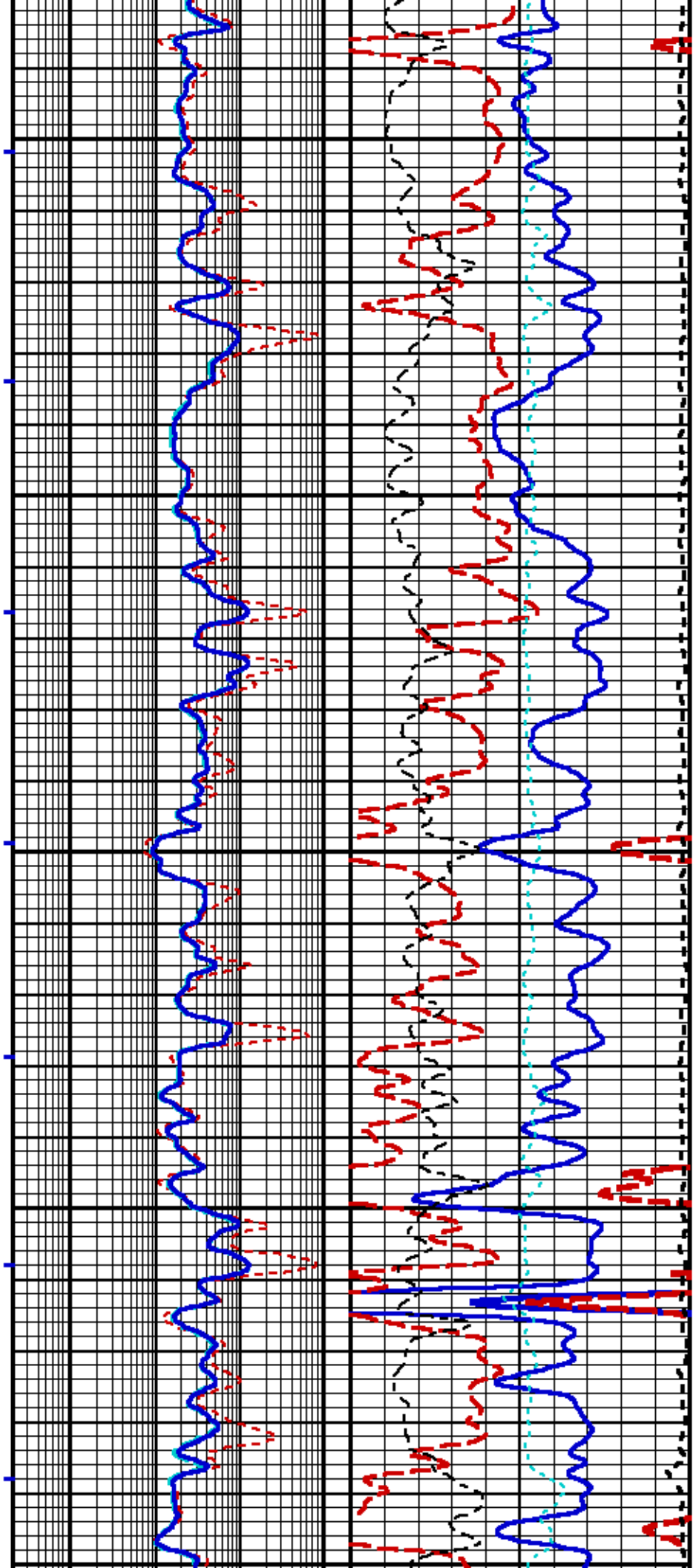


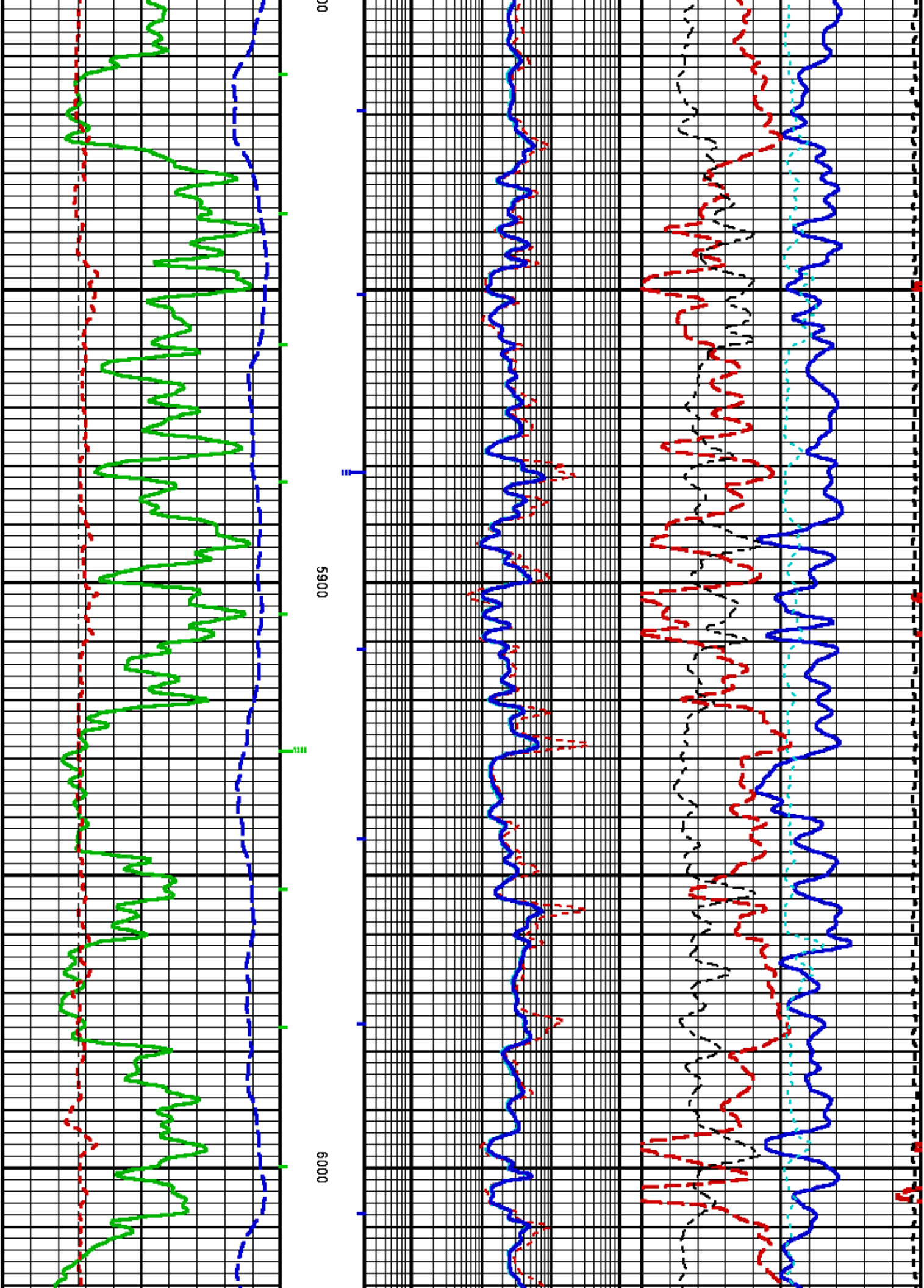


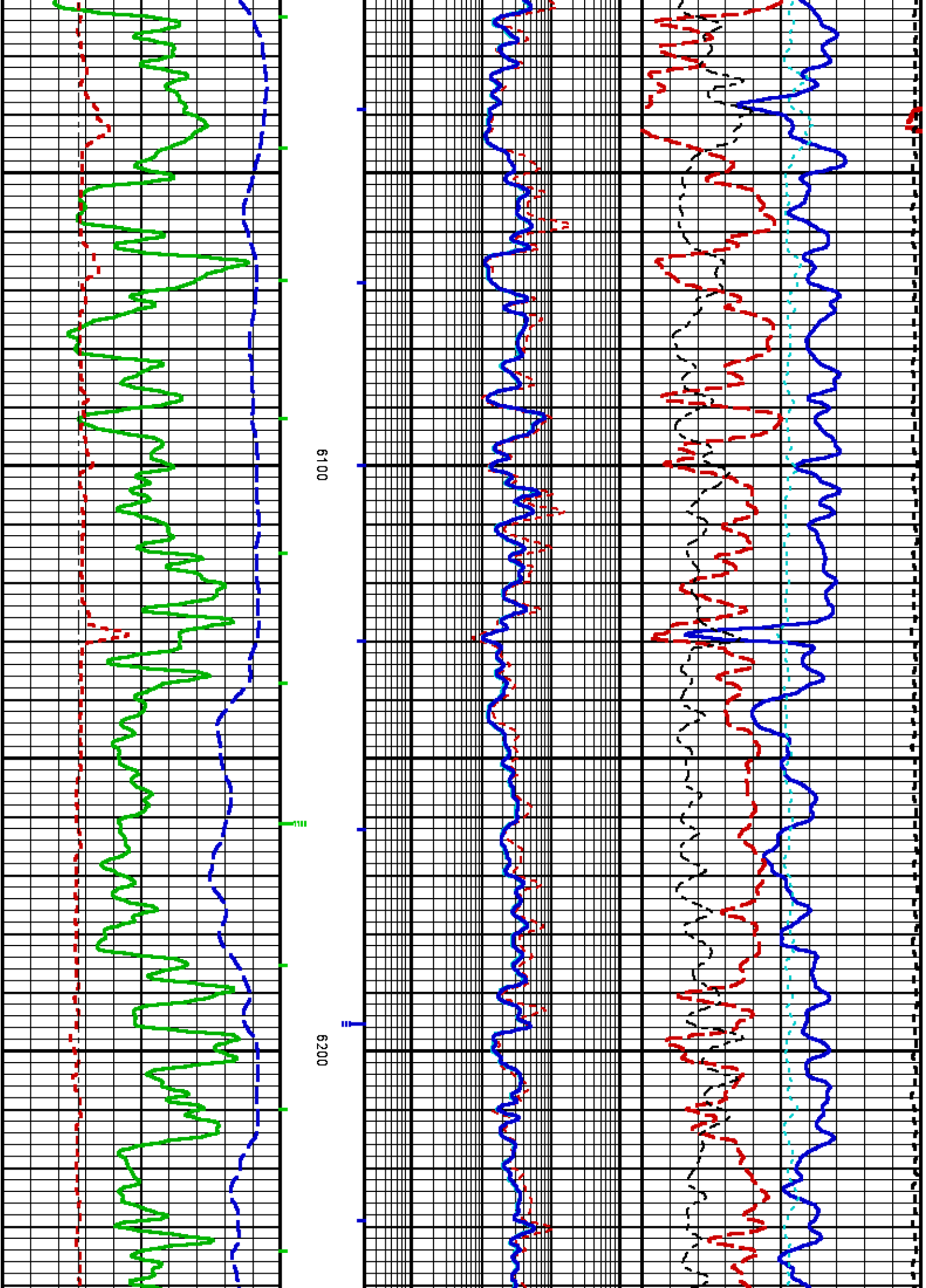


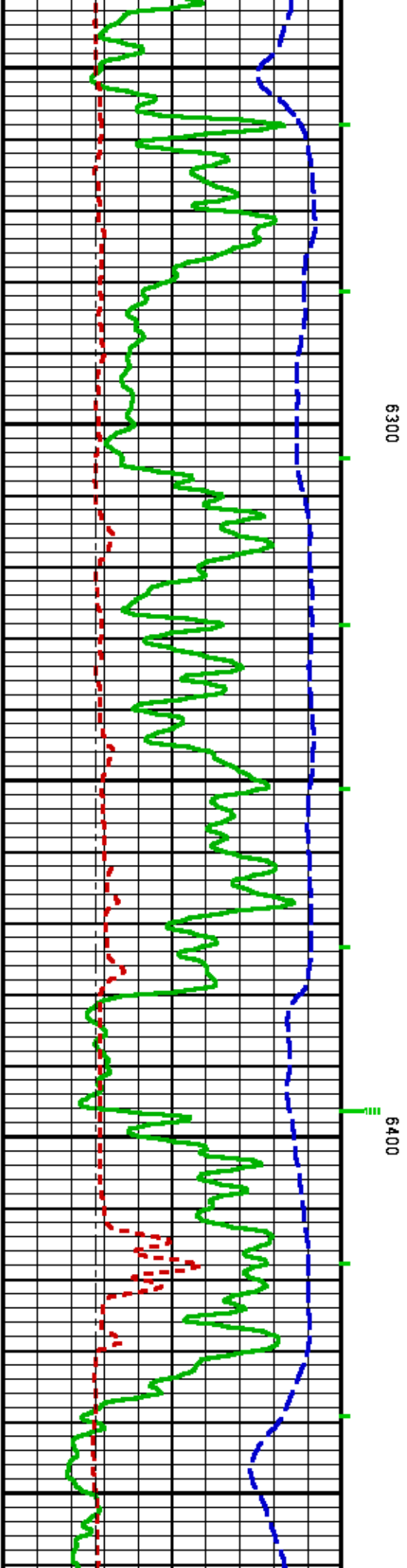
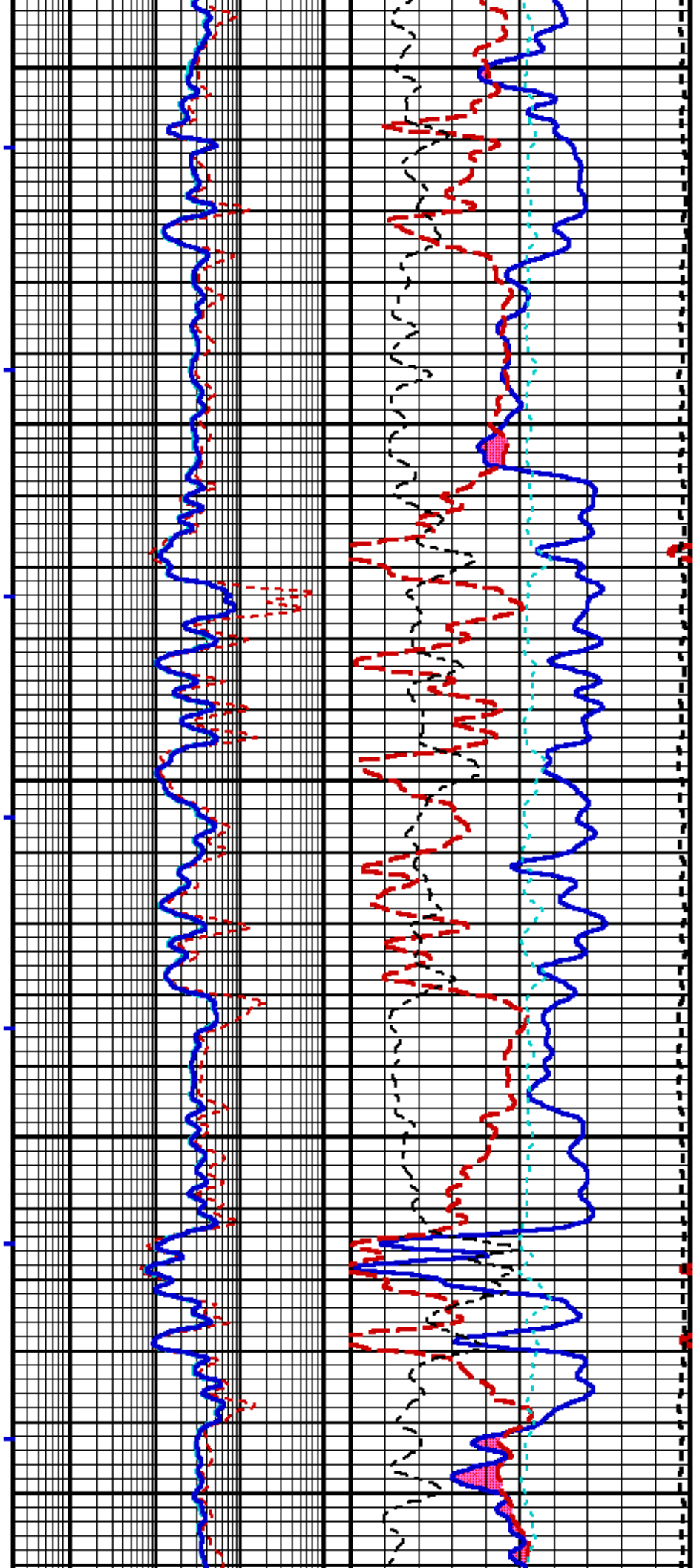


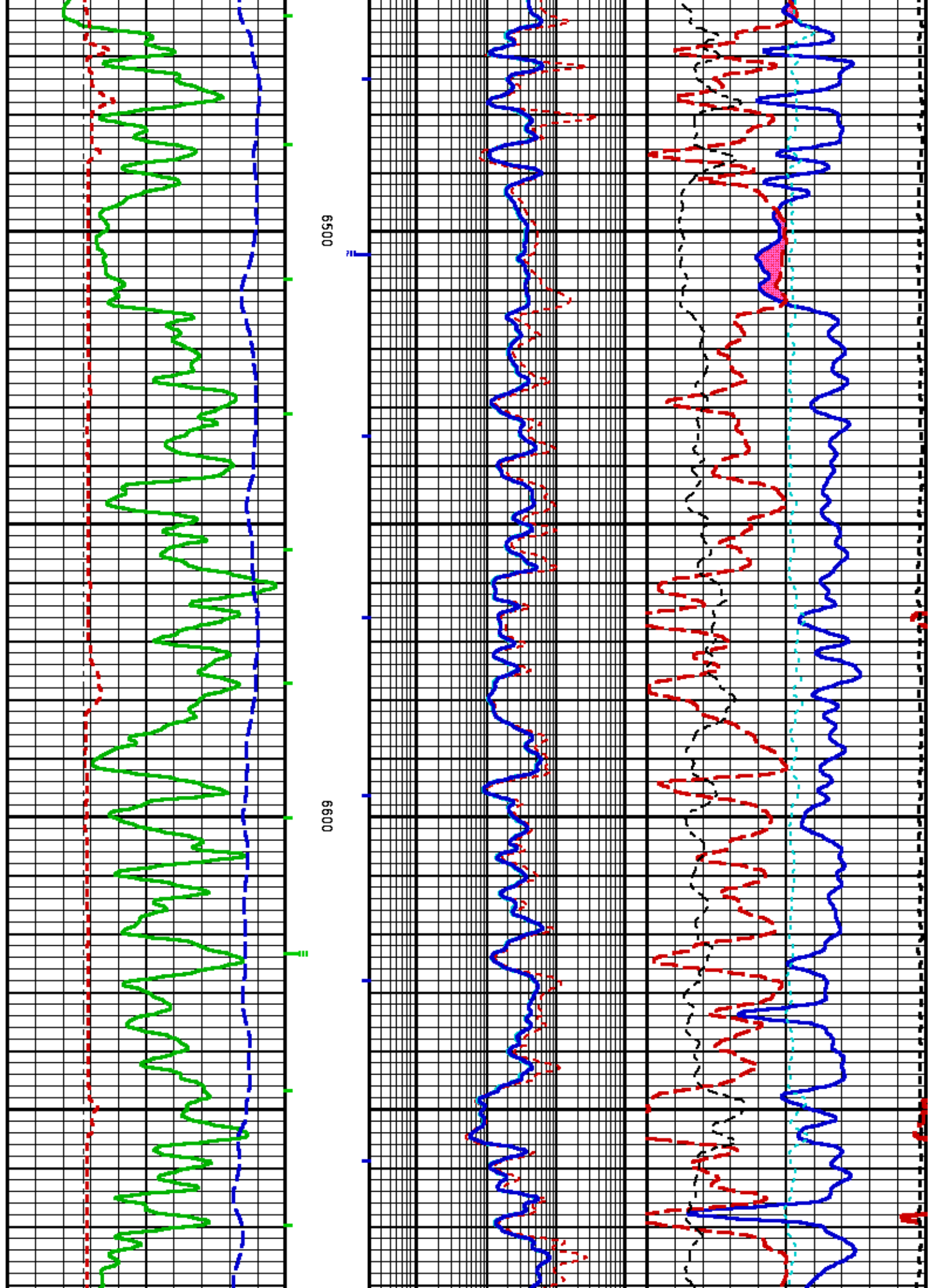


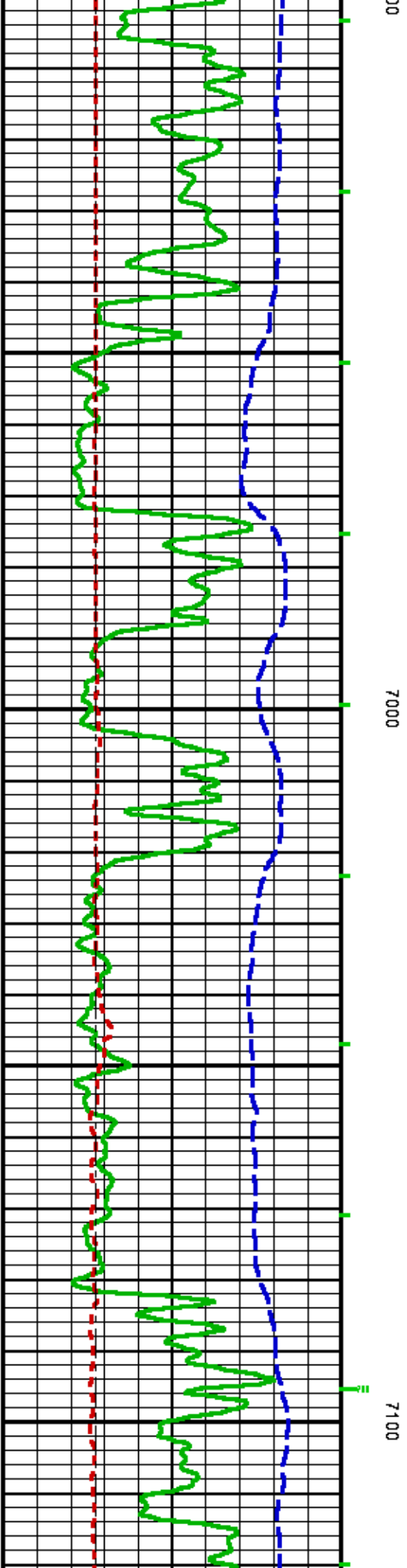
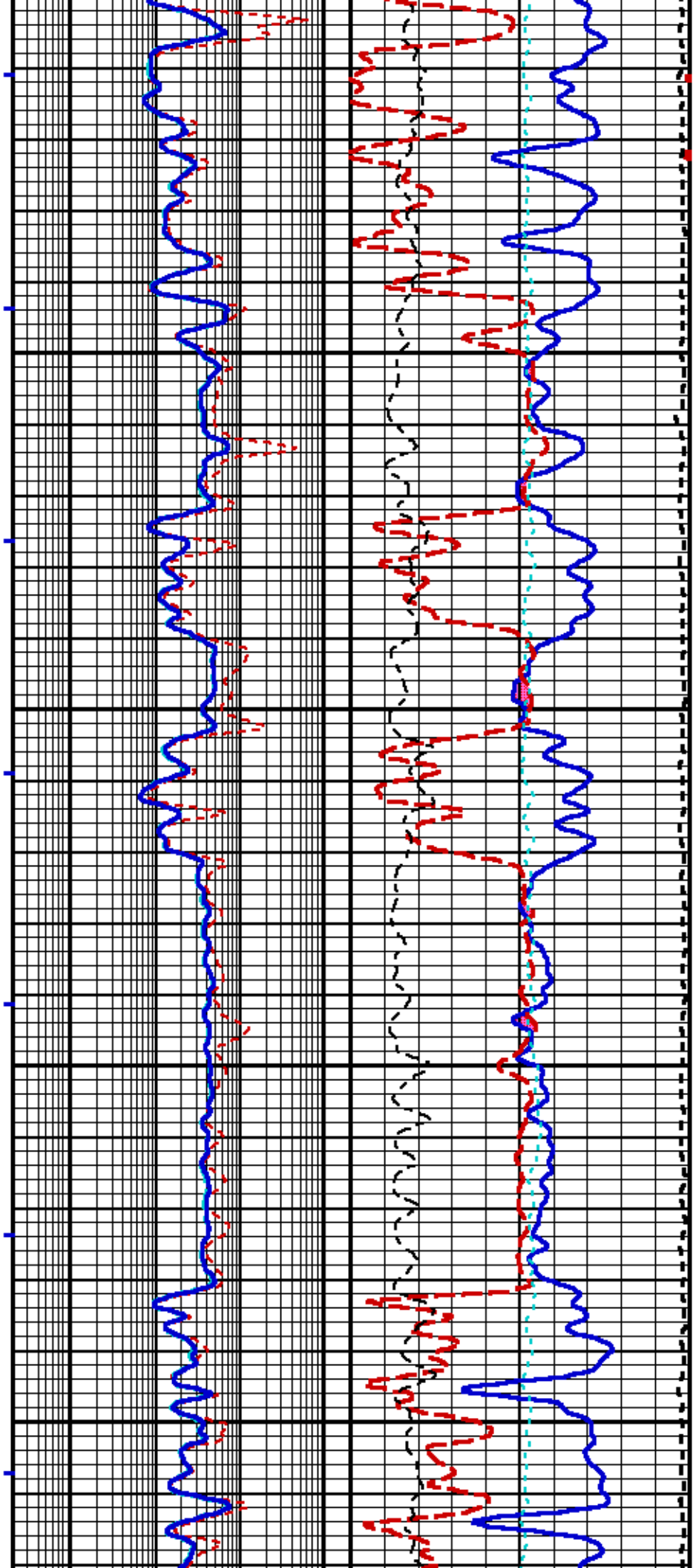


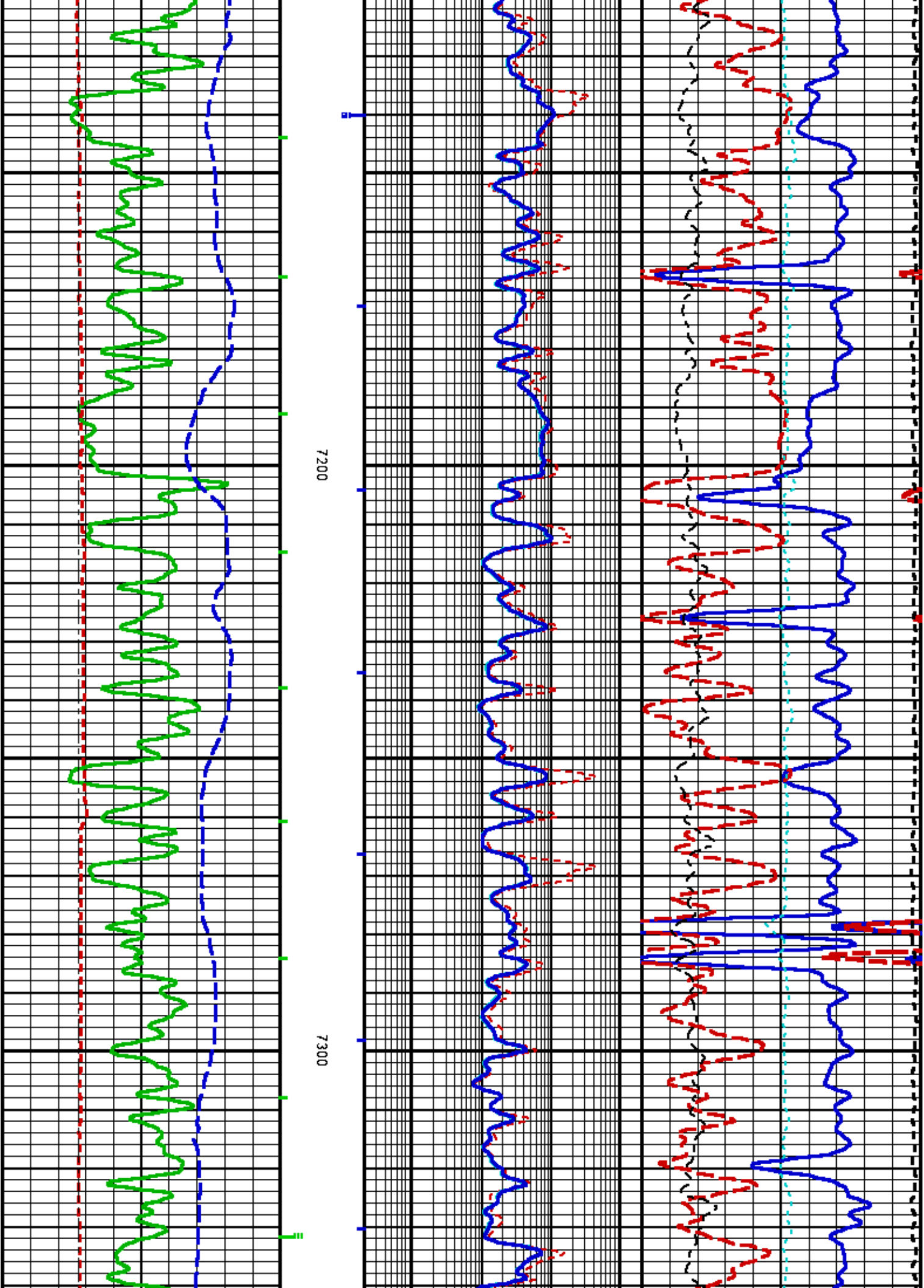






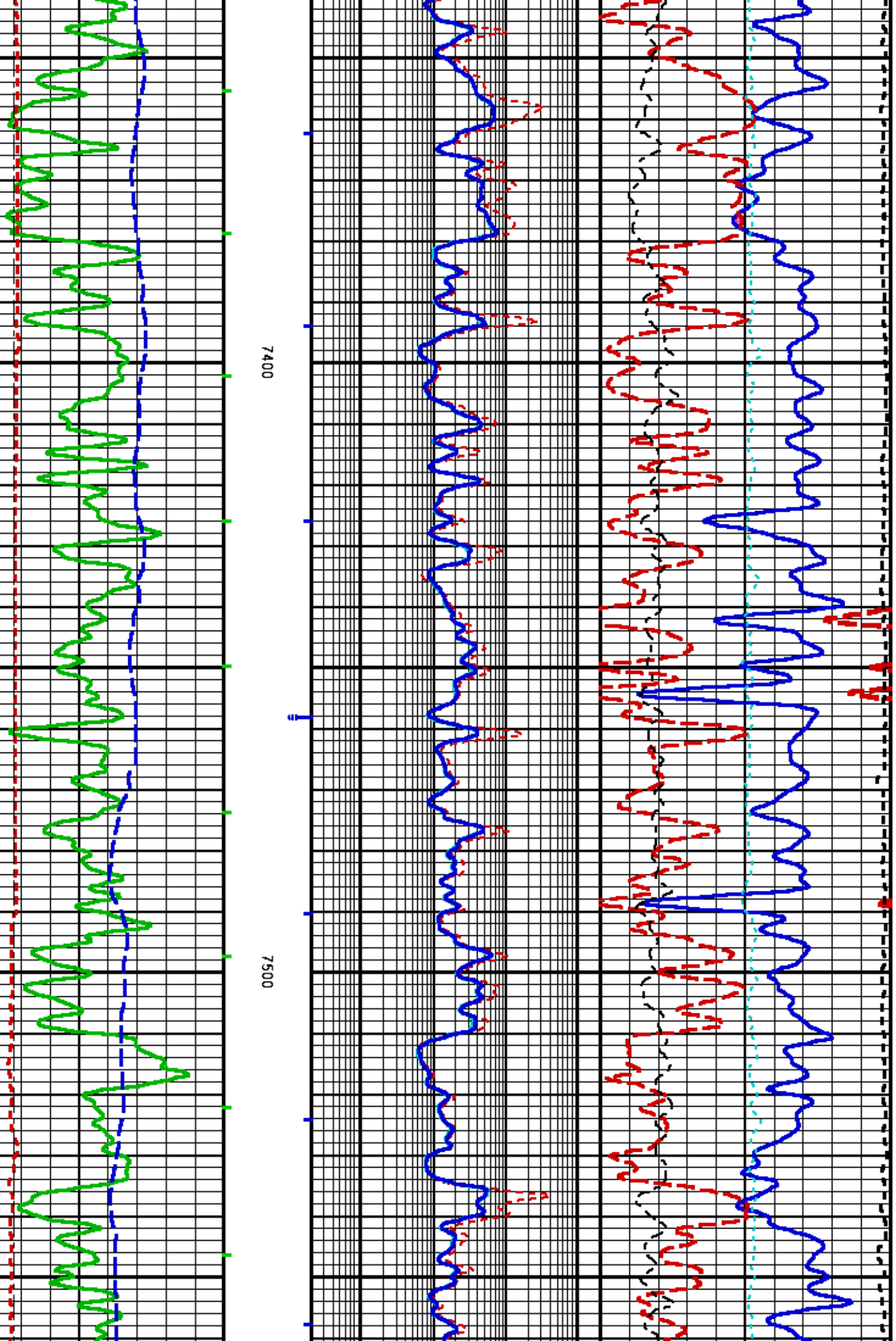


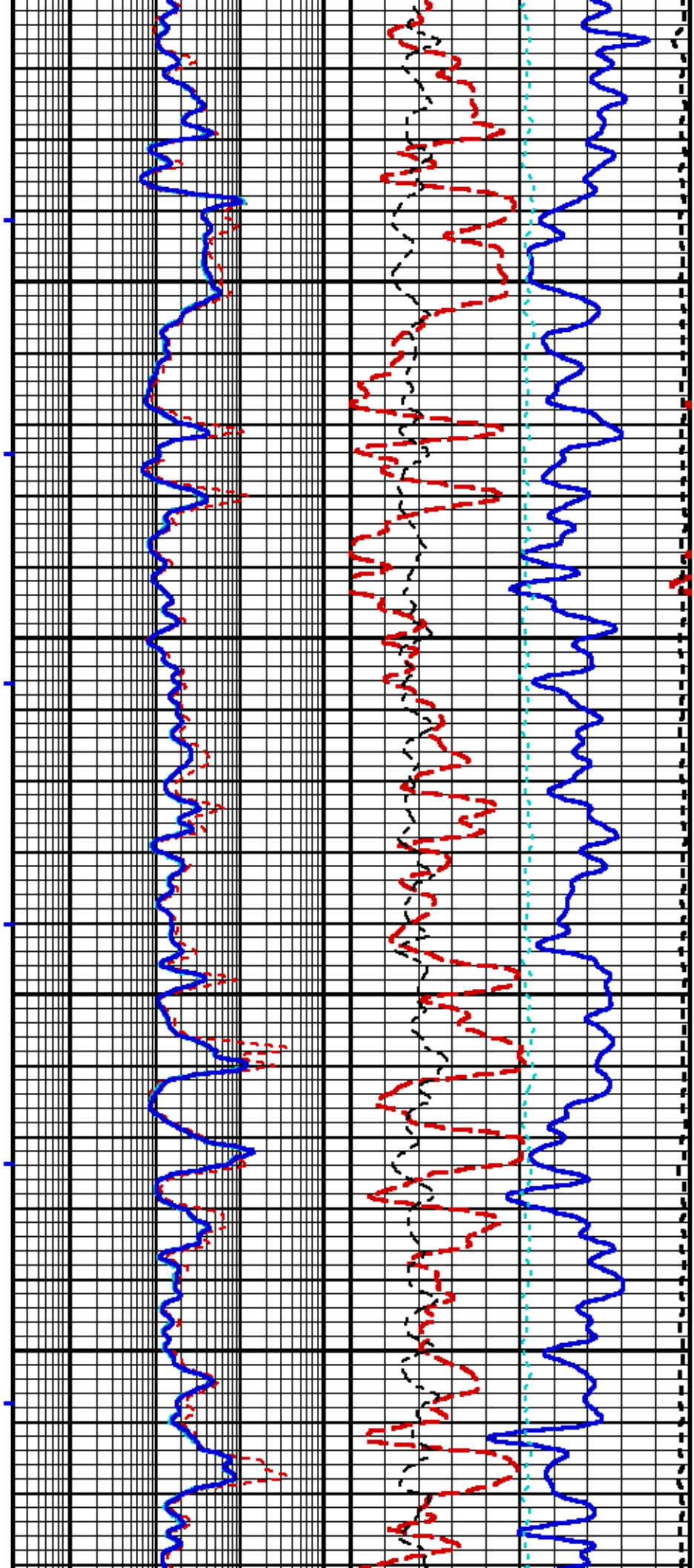




7400

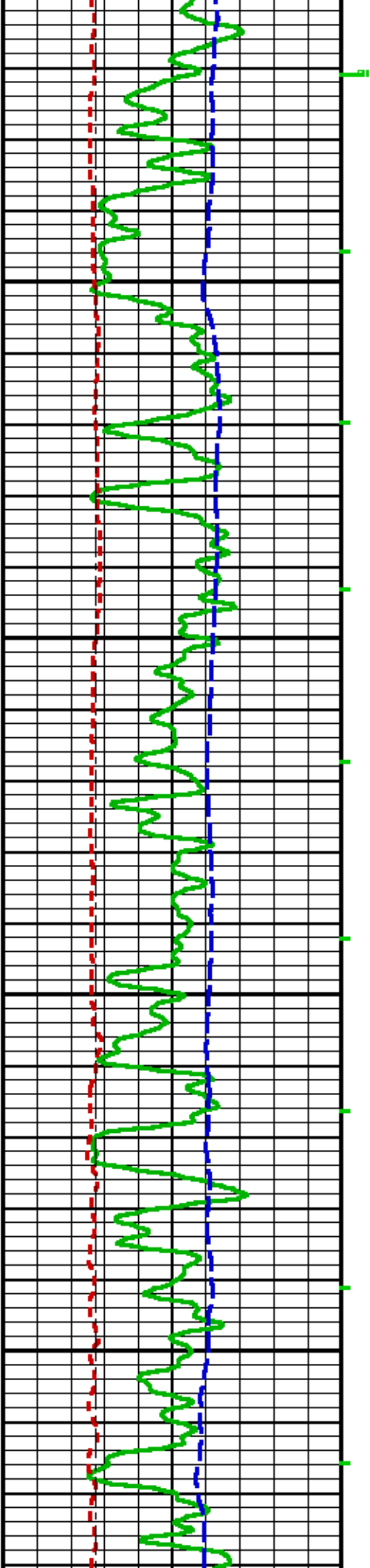
7500

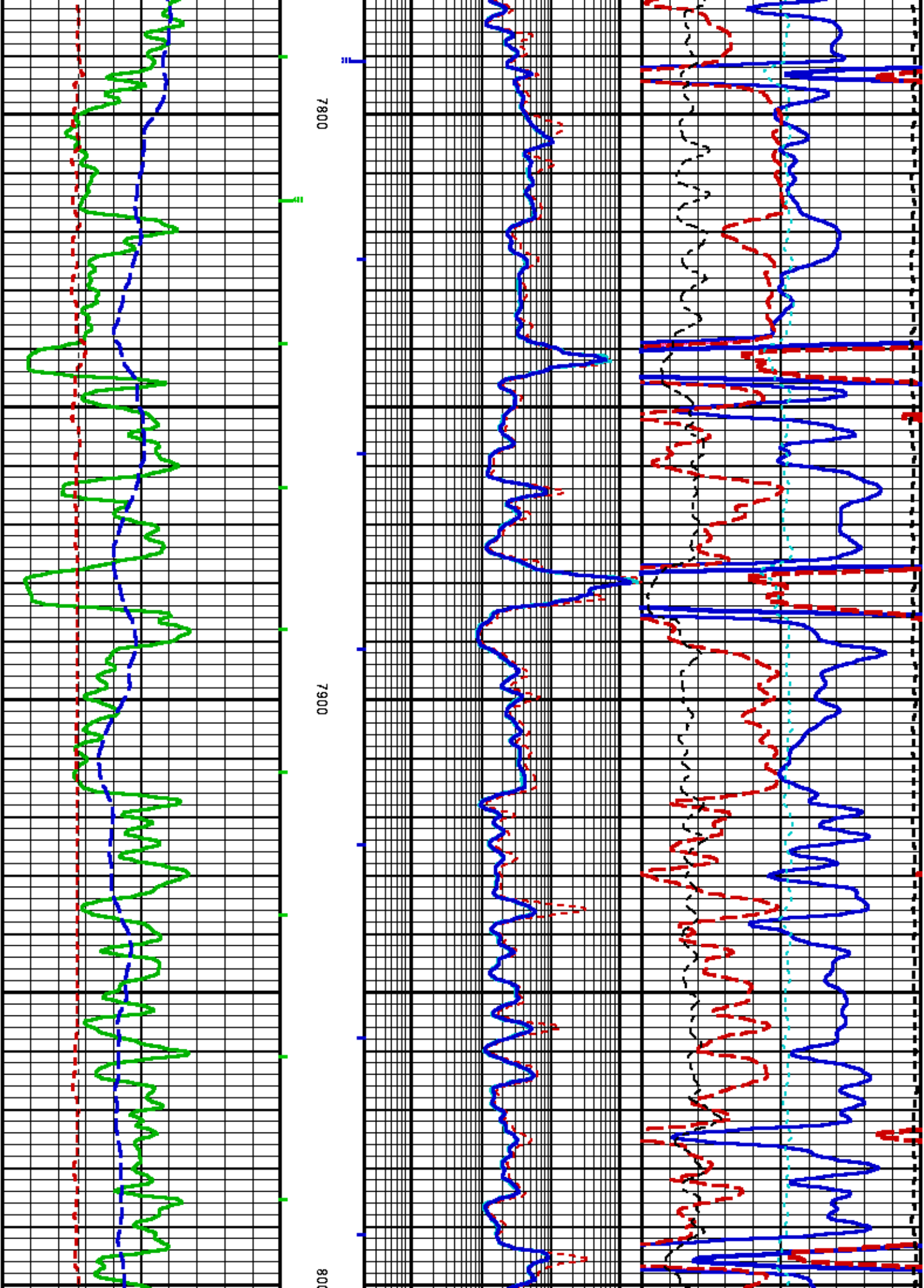


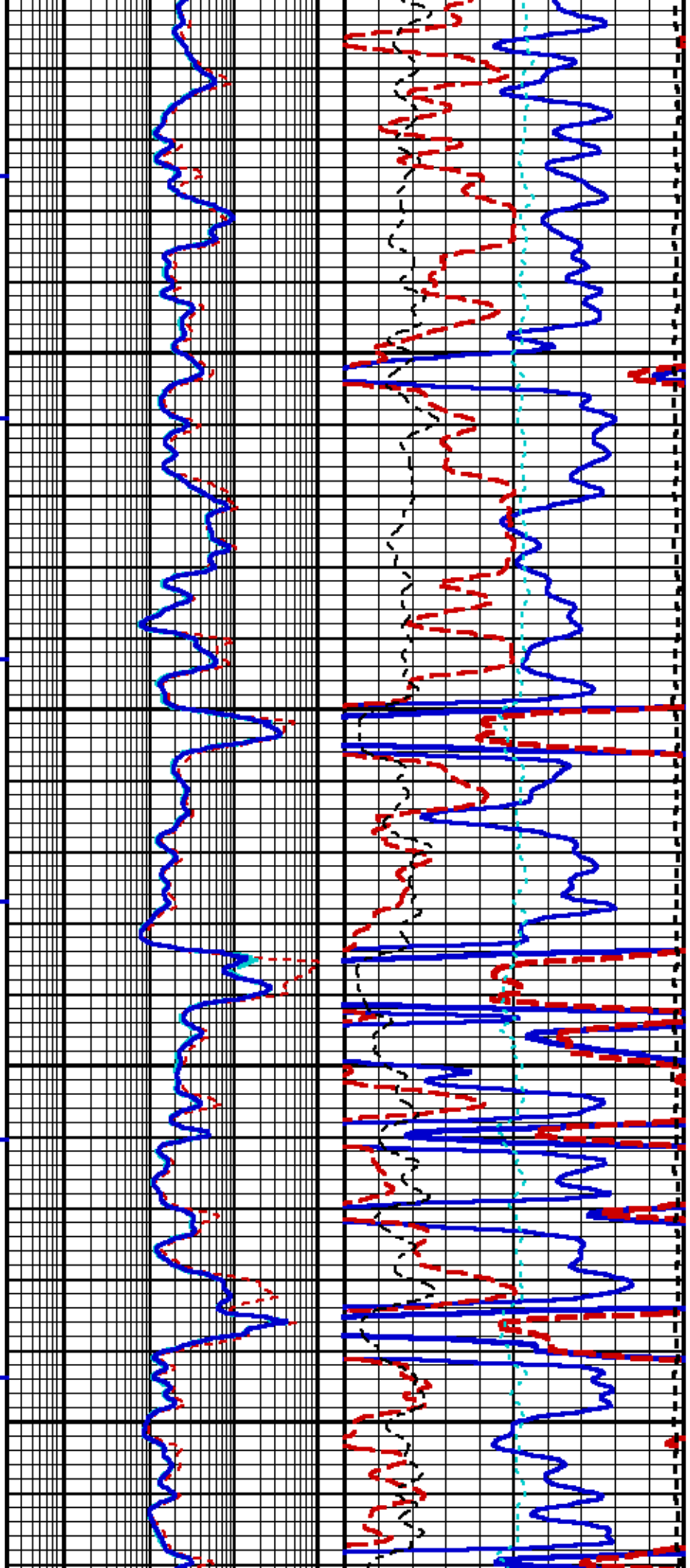


7600

7700



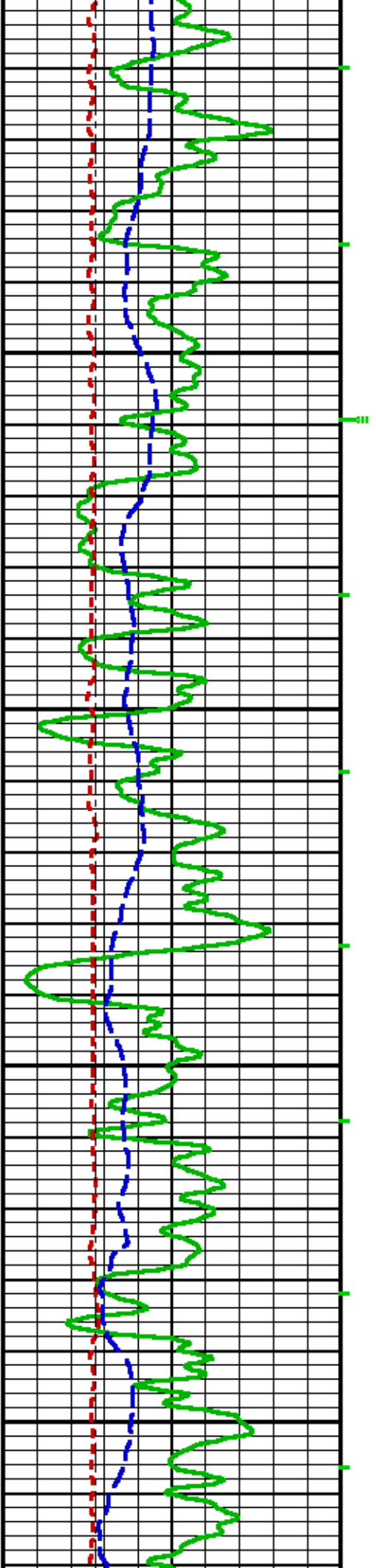


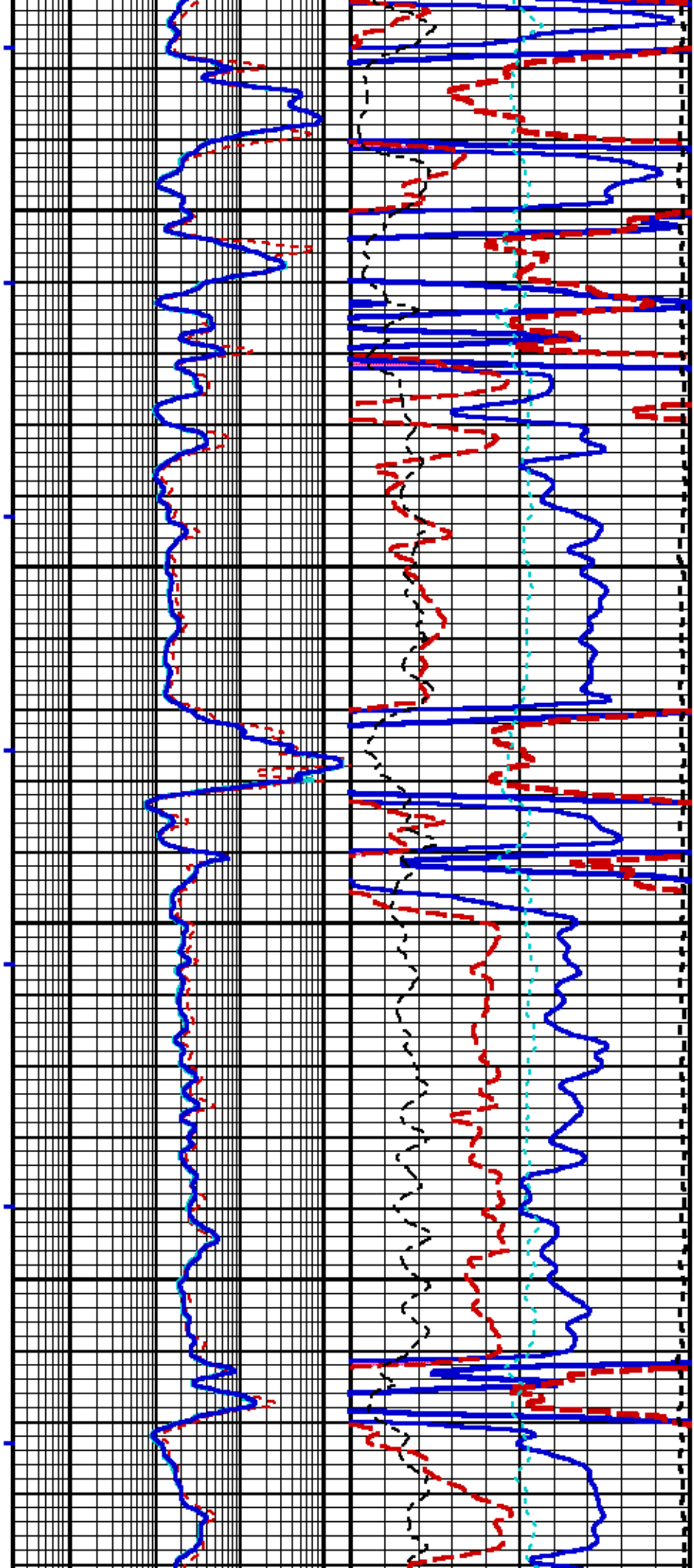


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8100

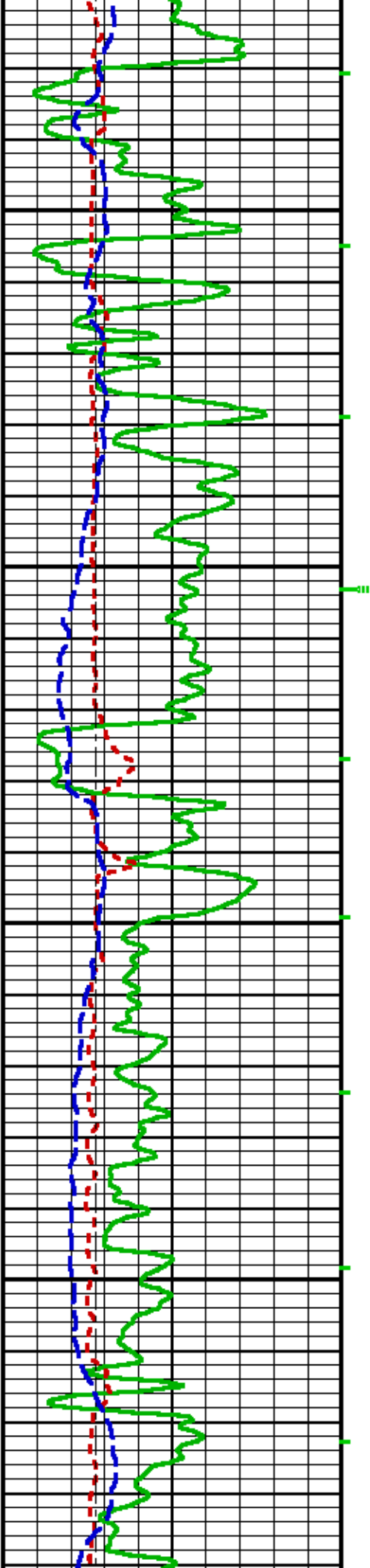
8200

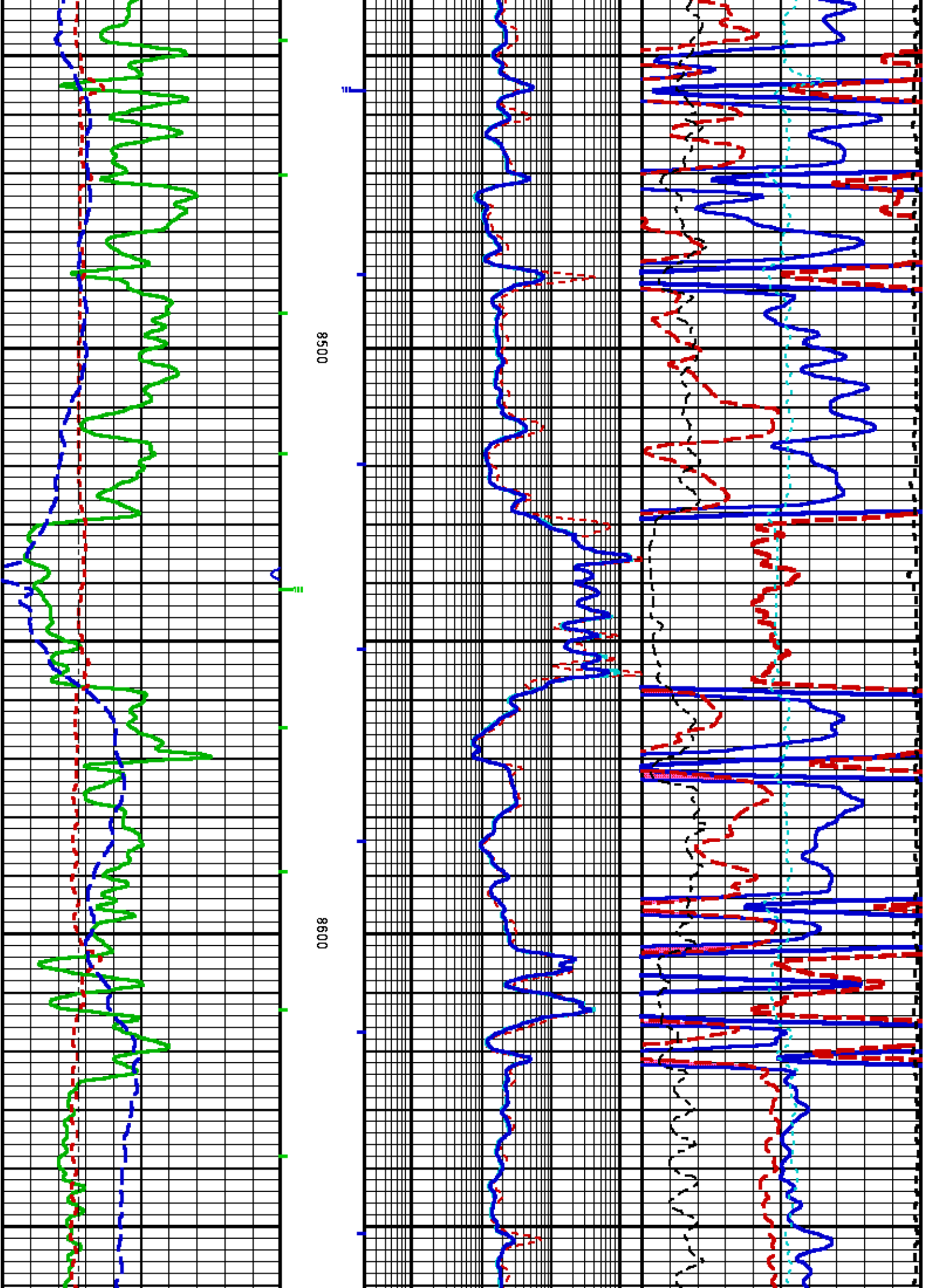


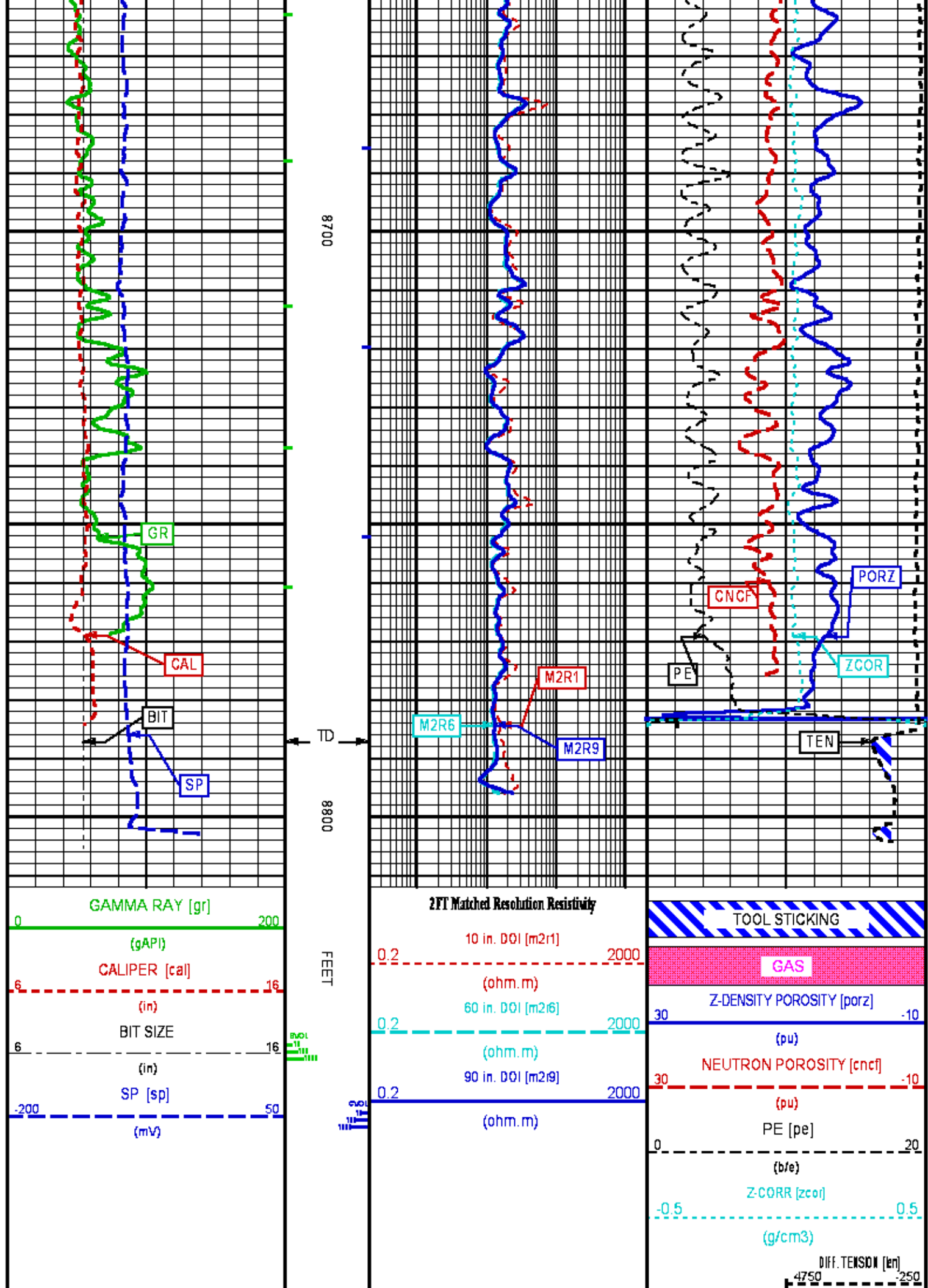


8300

8400







REPEAT LOG

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

Updates: 31 Patches: 5

Plotted: Thu Feb 20 17:51:52 2014

PARAMETER AND FILTER SUMMARY REPORT

File: /data/625062/n970a01.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 1049.750 ft BOTTOM DEPTH: 1447.550 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR MED RES	FILTER Q	medium (1)		TOP	BOTTOM
CALIPER	FILTER Q	medium (1)		"	"
TENSION	FILTER Q	medium (1)		"	"
CN MED RES	FILTER Q	medium (1)		"	"
ZDL MED RES	FILTER (hrd1*)	medium		"	"
	FILTER (hrd1*)	medium		"	"
	FILTER (hrd2*)	medium		"	"
	FILTER (hrd2*)	medium		"	"
	FILTER (soft*)	medium		"	"
SP-SPDH	FILTER Q	heavy (3)		"	"

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	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		"	"
	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	8.750	in	"	"
	FIXED DIAMETER (mbh*)	8.750	in	"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	70.0	degF	TOP	1434.250
		77.0	degF	1434.250	BOTTOM
	MUD SAMPLE RES	0.550	ohm.m	TOP	1428.750
		1.000	ohm.m	1428.750	BOTTOM
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		TOP	BOTTOM
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	"	"

ACCELERATION PROCESSING

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

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CN MATRIX	2436 MATRIX	SANDSTONE		TOP	BOTTOM
CN BOREHOLE CORRECTION	SALINITY	650	ppm	TOP	1398.333
		0	ppm	1398.333	BOTTOM
	BOREHOLE CORRECTION	ON		TOP	BOTTOM
CN TOOL STANDOFF	ENABLE STANDOFF CORR	OFF		"	"
	STANDOFF AMOUNT	0.00	in	"	"
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"

BIT SIZE BEHIND CSNG

13.500

in

"

"

ZDL PROCESSING

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

HDIL PROCESSING

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

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Feb 20 15:30:28 2014	BIT SIZE
F1:BVOL	Feb 20 15:30:28 2014	BOREHOLE VOLUME
F1:CAL	Feb 20 15:30:28 2014	CALIPER
F1:CNCf	Feb 20 15:30:28 2014	FIELD NORMALIZED COMPENSATED NEUTRON POROSITY
F1:CVOL	Feb 20 15:30:28 2014	CEMENT VOLUME
F1:GR	Feb 20 15:30:28 2014	GAMMA RAY
F1:M2R1	Feb 20 15:30:28 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI
F1:M2R6	Feb 20 15:30:28 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	Feb 20 15:30:28 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:PE	Feb 20 15:30:28 2014	PHOTO ELECTRIC CROSS-SECTION
F1:PORZ	Feb 20 15:30:28 2014	POROSITY FOR SELECTABLE MATRIX
F1:SP	Feb 20 15:30:28 2014	SPONTANEOUS POTENTIAL
F1:TEN	Feb 20 15:30:28 2014	DIFFERENTIAL TENSION
F1:ZCOR	Feb 20 15:30:28 2014	DENSITY CORRECTION

CURVE MEASURE POINT OFFSET

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

Presentation : HL6670:WPX_REPEAT.fvpdf [5"/100' Scale]

Plot Interval : 1110 - 1451.5 Feet

Data File 1 : F1: HL6670:/dat1a/625062/REPEAT.xtf

Created On : Feb 20 15:30:28 2014

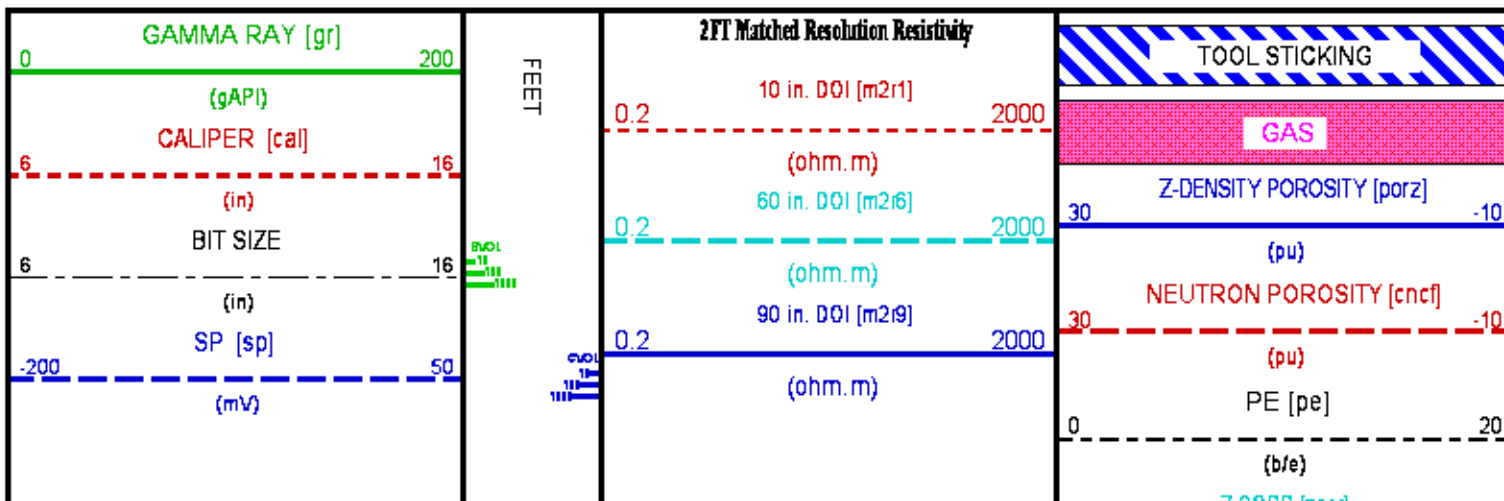
Company : WPX ENERGY INC

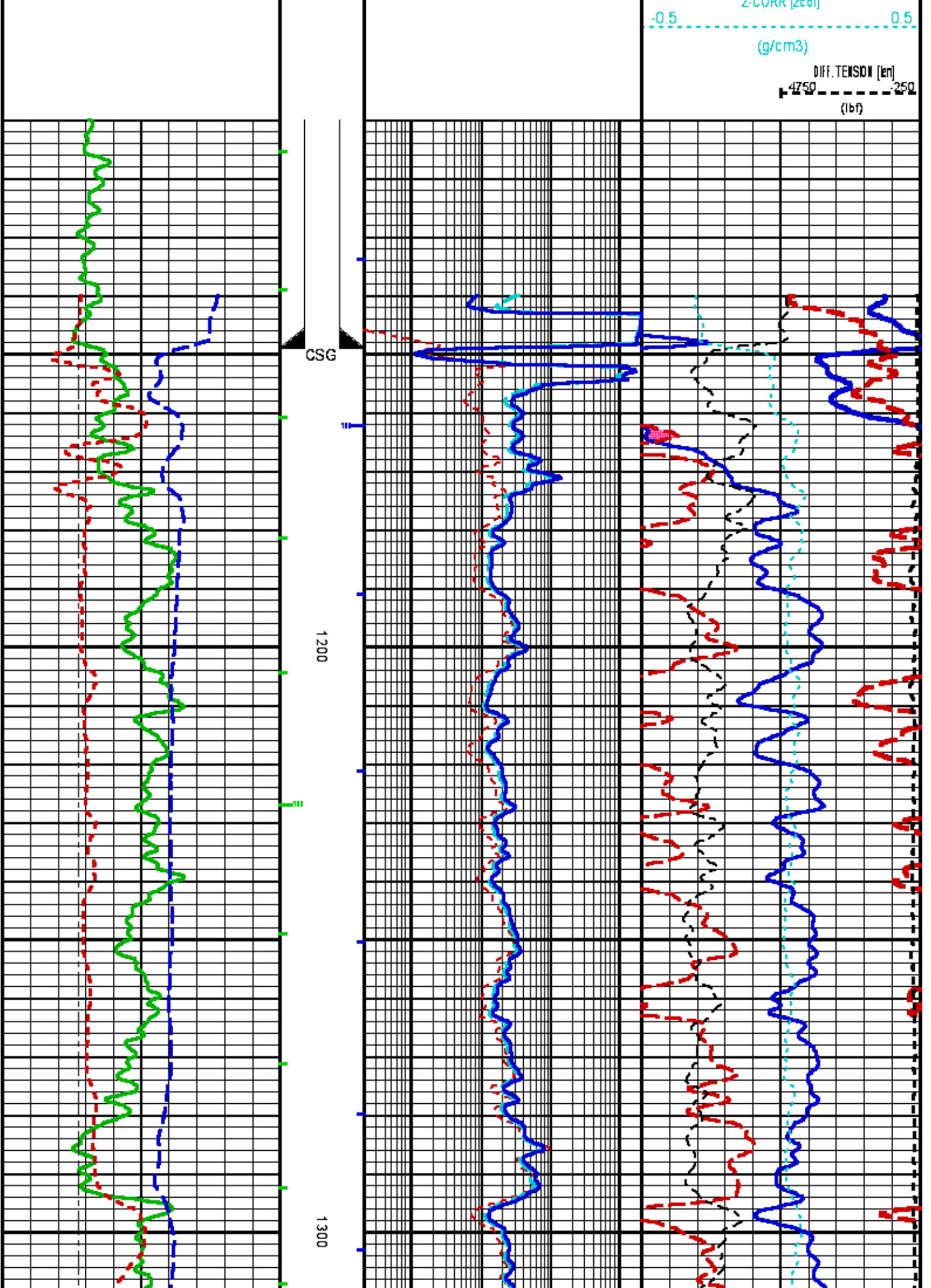
Well : SAVAGE RWF 322-25

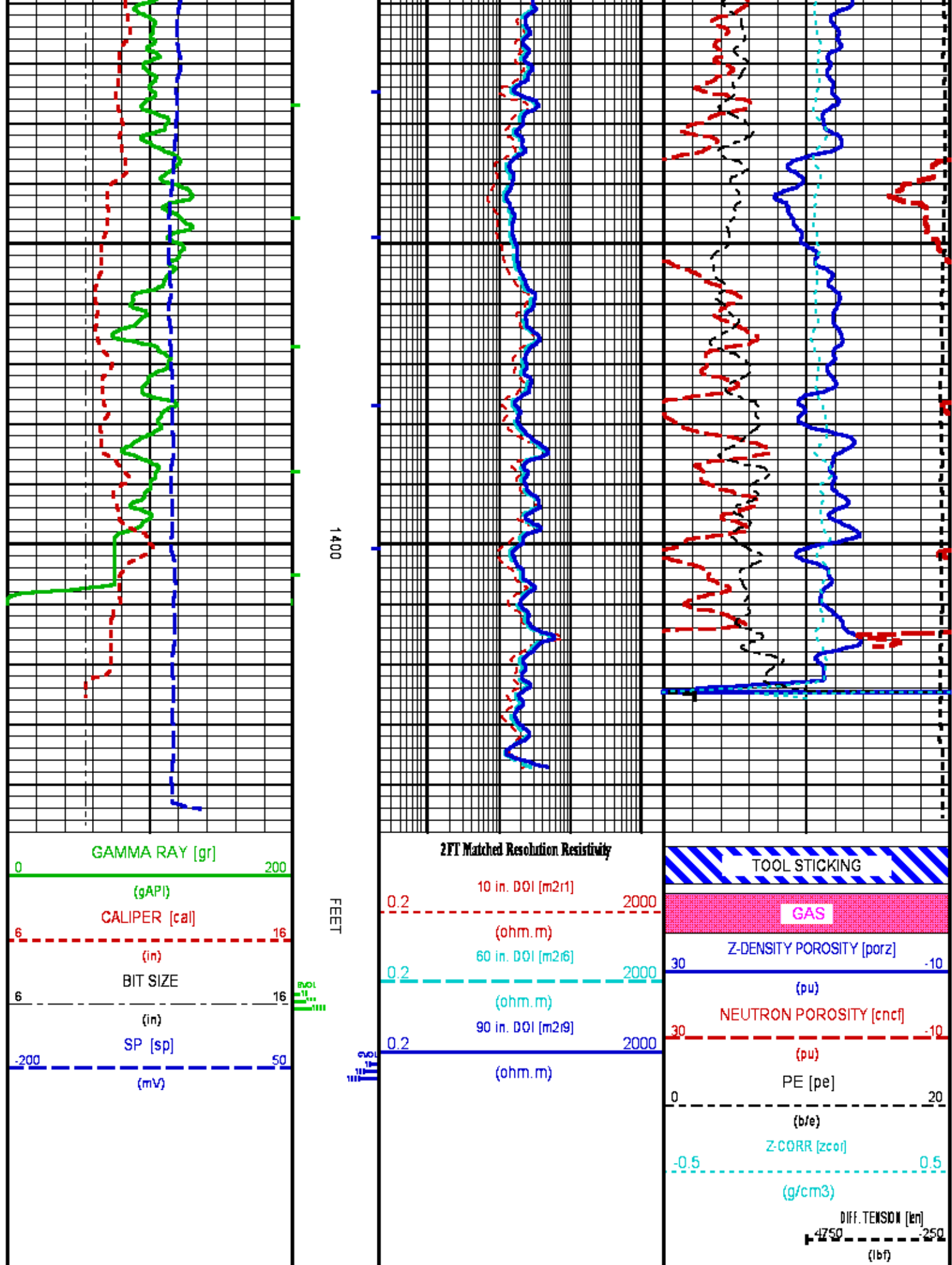
Field : RULISON

File Interval : 0 - 1452.75 Feet

OCT : n970a







CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/625062/625062.tp1

TTMA PRIMARY CALIBRATION SUMMARY

TOOL #: 3980XA 10142233 DATE/TIME PERFORMED: Thu Aug 11 09:14:18 2011

UNIT #: 3885TD ML4230 ACCEL #: 3980XA 10142233 ACCEL CAL DATE: 14:22 02/02/2005

		GAIN		OFFSET (ohm.m)		
Rm K Factors		0.14570		-0.01679		
	Sig Low (ohm)	Sig High (ohm)	Mult Factor	Add Factor	Engr Low (ohm)	Engr High (ohm)
Rm Measurements	0.25	9.94	1.005530	0.000031	0.25	10.00

TTMA BEFORE LOG VERIFICATION SUMMARY

TOOL #: 3980XA 10142233 DATE/TIME PERFORMED: Thu Feb 20 15:10:42 2014 DAYS SINCE CAL: 924

UNIT #: 3880TA HL6670

	CHT (lbF)	MUD TEMP (degF)	RES M Q (ohm)	ACCEL Q
CAL	19778	496.80	9.95	1001.21
	1000.00 2000.00	100.00 500.00	0.00 12.00	0.00 1000.00
ZERO	-24785	-436.02	0.249	1001.195
	-25000 -25000	-115.00 -125.00	0.200 0.300	0.00 1000.000

TTMA AFTER LOG VERIFICATION SUMMARY

TOOL #: 3980XA 10142233 DATE/TIME PERFORMED: Thu Feb 20 19:02:31 2014 DAYS SINCE CAL: 924

UNIT #: 3880TA HL6670

	CHT (lbF)	MUD TEMP (degF)	RES M Q (ohm)	ACCEL Q
CAL	19752	498.18	9.98	1001.41
	1000.00 2000.00	100.00 500.00	0.00 12.00	0.00 1000.00
ZERO	-24785	-436.02	0.249	1002.194
	-25000 -25000	-115.00 -125.00	0.200 0.300	0.00 1000.000

GR PRIMARY CALIBRATION SUMMARY

Tool #: 3518EG 10127973 DATE/TIME PERFORMED: Thu Feb 20 15:08:59 2014

Unit #: 3880TA HL6670 Jlg Series: 4702NK VBA-905

Background	Calibrator ON	Jlg Value (gAPI)	Mult	Background (gAPI)	Calibrator ON (gAPI)
75.24	757.14	185	0.271	20.41	205.41
			0.200 0.200		

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 3518EG 10127973 DATE/TIME PERFORMED: Thu Feb 20 15:11:01 2014 DAYS SINCE CAL: 0

UNIT #: 3880TA HL6670 Jlg: INTRNL N/A

Counts	TEMP (degF)	HV (V)
976.67	61.00	1361.74
0.00 1000.00	0.00 500.00	1200.00 1512.00

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 3518EG 10127973 DATE/TIME PERFORMED: Thu Feb 20 19:00:51 2014 DAYS SINCE CAL: 0

UNIT #: 3880TA HL6670 Jlg: INTRNL N/A

Counts	TEMP (degF)	HV (V)
976.67	111.60	1363.96
0.00 1000.00	0.00 500.00	1200.00 1512.00

CN PRIMARY CALIBRATION SUMMARY

TOOL #: 2436XA 10362459 DATE/TIME PERFORMED: Fri Dec 6 09:14:52 2013
 UNIT #: 3880TA HL6670 CALIBRATOR #: 2437XB 112674 SOURCE #: 4718XA N-0897

SSN DT CPS	LSN DT CPS	SSN/LSN	MCF	CNRATIO	CN PU
4483.84	802.70	5.58597	1.02704 0.95000 1.05000	5.73700	25.241

CN BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2436XA 10362459 DATE/TIME PERFORMED: Thu Feb 20 15:11:23 2014 DAYS SINCE CAL: 76
 UNIT #: 3880TA HL6670 CALIBRATOR #: INTRNL N/A

SSN DT CPS	LSN DT CPS	SSN/LSN	TEMP (degF)	HV (V)	LV (V)
990.73	993.09	0.99762 0.95000 1.05000	51.1 280.4	1346.9 1250.0 1450.0	4.648 4.300 5.000

CN AFTER LOG VERIFICATION SUMMARY

TOOL #: 2436XA 10362459 DATE/TIME PERFORMED: Thu Feb 20 19:01:06 2014 DAYS SINCE CAL: 76
 UNIT #: 3880TA HL6670 CALIBRATOR #: INTRNL N/A

SSN DT CPS	LSN DT CPS	SSN/LSN	TEMP (degF)	HV (V)	LV (V)
991.06	993.42	0.99762 0.95000 1.05000	100.7 280.4	1345.4 1250.0 1450.0	4.648 4.300 5.000

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2223XA 10102922 DATE/TIME PERFORMED: Wed Feb 12 12:21:32 2014
 UNIT #: 3880TA HL6670

	SIZE (in)	VALUE	MULTIPLIER	ADD
SMALL RING (Arm)	7.000	1548.0		
LARGE RING (Arm)	11.000	2796.0	0.00321	2.03846
PAD CLOSED		1755.2	0.00250	-4.38800

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10102922 DATE/TIME PERFORMED: Thu Feb 20 15:24:47 2014 DAYS SINCE CAL: 8
 UNIT #: 3880TA HL6670

	VALUE	MULTIPLIER	ADD	SIZE (in)
ARM	2192.0	0.00321	2.03846	9.1
PAD	1528.0	0.00250	-4.38800	-0.6

	ACTUAL (in)	MEASURED (in)
DIAMETER (arm+pad)	9.001	9.0 8.8 9.1

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10102922 DATE/TIME PERFORMED: Thu Feb 20 19:00:30 2014 DAYS SINCE CAL: 8
 UNIT #: 3880TA HL6670

	VALUE	MULTIPLIER	ADD	SIZE (in)
ARM	2192.0	0.00321	2.03846	9.1
PAD	1448.0	0.00250	-4.38800	-0.8

	ACTUAL (in)	MEASURED (in)
DIAMETER (arm+pad)	9.001	9.0 8.8 9.1

DIAMETER (arm+pad)

9.001

9.0

0.0 0.1

ZDL PRIMARY CALIBRATION SUMMARY

TOOL #: 2223XA 10102922

DATE/TIME PERFORMED:

Wed Feb 12 12:13:52 2014

UNIT: 3880TA HL6670

CALB BLKS: 2225XA 094292F

CS SRC: 4705XA 16068B

PAD TYPE: PADTYP 7.5" PAD

	SS CS PK (Channel)	LS CS PK (Channel)	SS_BKGD (cps)	LS BKGD (cps)		
	224.7	224.8	1262.2	1390.4		
	250.0 250.0	250.0 250.0				
	SS (cps)	LS (cps)	SHR	DEN (g/cm3)	CORR (g/cm3)	PE (b/e)
MG (LO PE)	36029.6	12202.4	0.750	1.679	0.000	1.900
			0.750 0.250			
AL	22802.9	1386.6		2.667	-0.016	
AL + SHIM	30206.8	2417.0		2.558	0.098	
MG + SHIM (HI PE)	17826.4	5809.2	0.297			8.550
			0.250 0.250			
RATIO AL + SHIM/AL	1.32	1.74				
	1.30 1.40	1.80 1.80				
RATIO MG/AL	1.58	8.80				
	1.50 1.70	8.50 9.50				

ZDL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10102922

DATE/TIME PERFORMED:

Thu Feb 20 15:18:39 2014

DAYS SINCE CAL: 8

UNIT #: 3880TA HL6670

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	3342.1	224.9	1432.0
	3332.1 3352.1	220.0 230.0	1280.0 1580.0
SS	22354.8	224.2	1334.0
	22254.8 22454.8	220.0 230.0	1280.0 1580.0
	LV (V)	PAD CURRENT (mA)	
	5.0	96.0	
	4.8 5.2	90.0 100.0	

ZDL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10102922

DATE/TIME PERFORMED:

Thu Feb 20 19:02:03 2014

DAYS SINCE CAL: 8

UNIT #: 3880TA HL6670

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	3342.1	223.7	1426.7
	3332.1 3352.1	220.0 230.0	1280.0 1580.0
SS	22354.8	224.2	1330.7
	22254.8 22454.8	220.0 230.0	1280.0 1580.0
	LV (V)	PAD CURRENT (mA)	
	5.0	99.2	
	4.8 5.2	90.0 100.0	

HDIL PRIMARY CALIBRATION SUMMARY

TOOL #: 1530XA 10121806

DATE/TIME PERFORMED:

Tue Jan 7 14:33:41 2014

UNIT #: 3880TA HL6670

GRCOND ID & DATE: 94 101801

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Cell 0 R	0.0037 -0.2000 0.2000	-0.0008 -0.1000 0.1000	-0.0003 -0.1000 0.1000	0.0007 -0.1000 0.1000	-0.0014 -0.1000 0.1000	0.0002 -0.1000 0.1000	-0.0004 -0.1000 0.1000	-0.0000 -0.1000 0.1000
Cell 0 Q	-0.0039 -0.5000 0.5000	-0.0008 -0.2000 0.2000	0.0005 -0.1000 0.1000	-0.0012 -0.1000 0.1000	0.0004 -0.1000 0.1000	0.0003 -0.1000 0.1000	0.0000 -0.1000 0.1000	-0.0004 -0.1000 0.1000
Cell 1 R	0.0008 -0.2000 0.2000	-0.0004 -0.1000 0.1000	0.0018 -0.1000 0.1000	-0.0009 -0.1000 0.1000	-0.0004 -0.1000 0.1000	-0.0003 -0.1000 0.1000	-0.0002 -0.1000 0.1000	0.0006 -0.1000 0.1000
Cell 1 Q	-0.0178 -0.5000 0.5000	-0.0015 -0.2000 0.2000	0.0010 -0.1000 0.1000	-0.0012 -0.1000 0.1000	0.0008 -0.1000 0.1000	-0.0007 -0.1000 0.1000	-0.0006 -0.1000 0.1000	-0.0011 -0.1000 0.1000
Cell 2 R	0.0055 -0.2000 0.2000	-0.0012 -0.1000 0.1000	0.0043 -0.1000 0.1000	-0.0024 -0.1000 0.1000	0.0006 -0.1000 0.1000	-0.0000 -0.1000 0.1000	-0.0000 -0.1000 0.1000	0.0016 -0.1000 0.1000
Cell 2 Q	-0.0108 -0.5000 0.5000	-0.0007 -0.2000 0.2000	-0.0037 -0.1000 0.1000	-0.0003 -0.1000 0.1000	-0.0013 -0.1000 0.1000	-0.0013 -0.1000 0.1000	0.0006 -0.1000 0.1000	-0.0012 -0.1000 0.1000

	<div>-0.00000.00000</div> <div>-0.00000.00000</div>	<div>-0.00000.00000</div> <div>-0.00000.00000</div>	<div>-0.00000.00000</div> <div>-0.00000.00000</div>	<div>-0.00000.00000</div> <div>-0.00000.00000</div>	<div>-0.00000.00000</div> <div>-0.00000.00000</div>	<div>-0.00000.00000</div> <div>-0.00000.00000</div>	<div>-0.00000.00000</div> <div>-0.00000.00000</div>	<div>-0.00000.00000</div> <div>-0.00000.00000</div>
Coll 3 R	<div>0.0113</div> <div>-0.00000.00000</div>	<div>-0.0008</div> <div>-0.00000.00000</div>	<div>-0.0016</div> <div>-0.00000.00000</div>	<div>0.0012</div> <div>-0.00000.00000</div>	<div>0.0002</div> <div>-0.00000.00000</div>	<div>0.0008</div> <div>-0.00000.00000</div>	<div>0.0033</div> <div>-0.00000.00000</div>	<div>0.0012</div> <div>-0.00000.00000</div>
Coll 3 Q	<div>-0.0126</div> <div>-0.00000.00000</div>	<div>0.0028</div> <div>-0.00000.00000</div>	<div>0.0037</div> <div>-0.00000.00000</div>	<div>-0.0006</div> <div>-0.00000.00000</div>	<div>-0.0010</div> <div>-0.00000.00000</div>	<div>-0.0014</div> <div>-0.00000.00000</div>	<div>0.0038</div> <div>-0.00000.00000</div>	<div>0.0020</div> <div>-0.00000.00000</div>
Coll 4 R	<div>0.0190</div> <div>-0.00000.00000</div>	<div>-0.0089</div> <div>-0.00000.00000</div>	<div>-0.0002</div> <div>-0.00000.00000</div>	<div>0.0046</div> <div>-0.00000.00000</div>	<div>0.0026</div> <div>-0.00000.00000</div>	<div>-0.0029</div> <div>-0.00000.00000</div>	<div>0.0066</div> <div>-0.00000.00000</div>	<div>0.0043</div> <div>-0.00000.00000</div>
Coll 4 Q	<div>-0.0187</div> <div>-1.00000.00000</div>	<div>-0.0122</div> <div>-0.00000.00000</div>	<div>0.0007</div> <div>-0.00000.00000</div>	<div>0.0041</div> <div>-0.00000.00000</div>	<div>0.0051</div> <div>-0.00000.00000</div>	<div>0.0076</div> <div>-0.00000.00000</div>	<div>-0.0023</div> <div>-0.00000.00000</div>	<div>0.0004</div> <div>-0.00000.00000</div>
Coll 5 R	<div>0.0512</div> <div>-1.00000.00000</div>	<div>-0.0214</div> <div>-0.00000.00000</div>	<div>-0.0173</div> <div>-0.00000.00000</div>	<div>0.0092</div> <div>-0.00000.00000</div>	<div>0.0079</div> <div>-0.00000.00000</div>	<div>-0.0070</div> <div>-0.00000.00000</div>	<div>0.0171</div> <div>-0.00000.00000</div>	<div>0.0147</div> <div>-0.00000.00000</div>
Coll 5 Q	<div>-0.0400</div> <div>-1.00000.00000</div>	<div>-0.0261</div> <div>-0.00000.00000</div>	<div>0.0143</div> <div>-0.00000.00000</div>	<div>-0.0158</div> <div>-0.00000.00000</div>	<div>0.0060</div> <div>-0.00000.00000</div>	<div>-0.0097</div> <div>-0.00000.00000</div>	<div>0.0083</div> <div>-0.00000.00000</div>	<div>-0.0060</div> <div>-0.00000.00000</div>

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coll 0 M	<div>163.06</div> <div>138.00108.00</div>	<div>161.65</div> <div>131.00104.00</div>	<div>158.79</div> <div>131.00101.00</div>	<div>154.56</div> <div>128.00119.00</div>	<div>148.96</div> <div>122.00110.00</div>	<div>142.06</div> <div>118.00101.00</div>	<div>133.99</div> <div>112.00100.00</div>	<div>124.73</div> <div>105.00100.00</div>
Coll 0 P	<div>7.674</div> <div>8.0000.000</div>	<div>25.240</div> <div>21.00030.000</div>	<div>42.370</div> <div>35.00050.000</div>	<div>59.458</div> <div>49.00011.000</div>	<div>76.552</div> <div>85.00061.000</div>	<div>93.666</div> <div>11.000109.000</div>	<div>110.821</div> <div>92.000130.000</div>	<div>127.954</div> <div>105.000151.000</div>
Coll 1 M	<div>281.66</div> <div>258.00308.00</div>	<div>279.14</div> <div>255.00305.00</div>	<div>274.04</div> <div>250.00300.00</div>	<div>266.44</div> <div>245.00312.00</div>	<div>256.48</div> <div>218.00302.00</div>	<div>244.13</div> <div>205.00298.00</div>	<div>229.67</div> <div>198.00298.00</div>	<div>213.18</div> <div>181.00214.00</div>
Coll 1 P	<div>7.844</div> <div>8.0000.000</div>	<div>25.720</div> <div>21.00030.000</div>	<div>43.167</div> <div>35.00051.000</div>	<div>60.580</div> <div>49.00011.000</div>	<div>77.996</div> <div>85.00062.000</div>	<div>95.415</div> <div>18.000112.000</div>	<div>112.883</div> <div>95.000130.000</div>	<div>130.299</div> <div>109.000151.000</div>
Coll 2 M	<div>578.47</div> <div>498.00658.00</div>	<div>573.60</div> <div>474.00654.00</div>	<div>563.68</div> <div>465.00643.00</div>	<div>548.89</div> <div>450.00662.00</div>	<div>529.31</div> <div>432.00662.00</div>	<div>504.78</div> <div>412.00612.00</div>	<div>475.98</div> <div>360.00510.00</div>	<div>442.89</div> <div>350.00468.00</div>
Coll 2 P	<div>7.964</div> <div>8.0000.000</div>	<div>26.114</div> <div>21.00031.000</div>	<div>43.846</div> <div>35.00051.000</div>	<div>61.558</div> <div>49.00011.000</div>	<div>79.291</div> <div>85.00062.000</div>	<div>97.067</div> <div>18.000115.000</div>	<div>114.892</div> <div>92.000135.000</div>	<div>132.704</div> <div>105.000155.000</div>
Coll 3 M	<div>925.75</div> <div>1112.001080.00</div>	<div>917.66</div> <div>1014.001050.00</div>	<div>901.13</div> <div>1000.001030.00</div>	<div>876.42</div> <div>1020.001010.00</div>	<div>844.08</div> <div>1000.00970.00</div>	<div>803.95</div> <div>885.00925.00</div>	<div>756.94</div> <div>825.00865.00</div>	<div>702.73</div> <div>650.00768.00</div>
Coll 3 P	<div>7.767</div> <div>8.00010.000</div>	<div>25.546</div> <div>21.00030.000</div>	<div>42.898</div> <div>35.00051.000</div>	<div>60.208</div> <div>49.00012.000</div>	<div>77.518</div> <div>85.00065.000</div>	<div>94.862</div> <div>18.000114.000</div>	<div>112.225</div> <div>90.000135.000</div>	<div>129.553</div> <div>104.000158.000</div>
Coll 4 M	<div>1453.6</div> <div>1210.01100.0</div>	<div>1440.2</div> <div>1205.01050.0</div>	<div>1412.5</div> <div>1180.01050.0</div>	<div>1371.6</div> <div>1140.01050.0</div>	<div>1318.0</div> <div>1120.01050.0</div>	<div>1252.6</div> <div>1070.01050.0</div>	<div>1176.7</div> <div>1000.01050.0</div>	<div>1090.2</div> <div>942.01240.0</div>
Coll 4 P	<div>7.866</div> <div>8.00010.000</div>	<div>25.838</div> <div>21.00031.000</div>	<div>43.376</div> <div>35.00052.000</div>	<div>60.844</div> <div>49.00013.000</div>	<div>78.277</div> <div>85.00065.000</div>	<div>95.713</div> <div>18.000114.000</div>	<div>113.107</div> <div>91.000135.000</div>	<div>130.407</div> <div>105.000158.000</div>
Coll 5 M	<div>2983.3</div> <div>2450.03150.0</div>	<div>2960.7</div> <div>2420.03100.0</div>	<div>2911.3</div> <div>2410.03050.0</div>	<div>2836.3</div> <div>2250.03000.0</div>	<div>2735.9</div> <div>2250.03000.0</div>	<div>2611.5</div> <div>2150.02950.0</div>	<div>2463.8</div> <div>2050.02950.0</div>	<div>2292.2</div> <div>1890.02910.0</div>
Coll 5 P	<div>7.916</div> <div>8.00010.000</div>	<div>26.013</div> <div>20.00031.000</div>	<div>43.723</div> <div>35.00052.000</div>	<div>61.396</div> <div>49.00013.000</div>	<div>79.117</div> <div>85.00064.000</div>	<div>96.902</div> <div>18.000115.000</div>	<div>114.759</div> <div>95.000134.000</div>	<div>132.605</div> <div>105.000158.000</div>

AM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coll 0 R	<div>-1097</div> <div>-5000.0040</div>	<div>-658</div> <div>-1400.000</div>	<div>-537</div> <div>-400.00150</div>	<div>-464</div> <div>-780.00180</div>	<div>-412</div> <div>-800.00130</div>	<div>-373</div> <div>-500.00120</div>	<div>-342</div> <div>-500.00110</div>	<div>-318</div> <div>-500.00080</div>
Coll 0 Q	<div>-1163</div> <div>-15000.010000</div>	<div>-686</div> <div>-5000.00000</div>	<div>-547</div> <div>-3100.002100</div>	<div>-490</div> <div>-2100.001400</div>	<div>-460</div> <div>-2500.001000</div>	<div>-442</div> <div>-1800.00160</div>	<div>-431</div> <div>-1800.00050</div>	<div>-425</div> <div>-1500.00080</div>
Coll 1 R	<div>-141</div> <div>-750.000</div>	<div>-154</div> <div>-300.000</div>	<div>-146</div> <div>-200.000</div>	<div>-134</div> <div>-200.000</div>	<div>-123</div> <div>-200.000</div>	<div>-114</div> <div>-180.000</div>	<div>-106</div> <div>-180.000</div>	<div>-99</div> <div>-150.000</div>
Coll 1 Q	<div>-121</div> <div>-3000.00000</div>	<div>-79</div> <div>-1100.000</div>	<div>-75</div> <div>-600.000</div>	<div>-77</div> <div>-110.000</div>	<div>-78</div> <div>-300.000</div>	<div>-79</div> <div>-500.000</div>	<div>-79</div> <div>-200.000</div>	<div>-80</div> <div>-200.000</div>
Coll 2 R	<div>2.3</div> <div>-65.000</div>	<div>-34.0</div> <div>-64.000</div>	<div>-36.0</div> <div>-51.000</div>	<div>-33.9</div> <div>-51.000</div>	<div>-31.1</div> <div>-48.000</div>	<div>-28.4</div> <div>-42.000</div>	<div>-25.6</div> <div>-36.000</div>	<div>-23.7</div> <div>-39.000</div>
Coll 2 Q	<div>422.6</div> <div>-1500.001000.0</div>	<div>141.1</div> <div>-500.00010.0</div>	<div>80.2</div> <div>-250.0000.0</div>	<div>54.6</div> <div>-250.0000.0</div>	<div>40.6</div> <div>-180.000100.0</div>	<div>32.6</div> <div>-140.000180.0</div>	<div>27.9</div> <div>-110.000130.0</div>	<div>25.4</div> <div>-80.000120.0</div>
Coll 3 R	<div>1.3</div> <div>-25.000</div>	<div>-7.5</div> <div>-22.000</div>	<div>-8.9</div> <div>-21.000</div>	<div>-8.6</div> <div>-20.000</div>	<div>-9.0</div> <div>-18.000</div>	<div>-8.1</div> <div>-18.000</div>	<div>-7.8</div> <div>-18.000</div>	<div>-7.5</div> <div>-18.000</div>
Coll 3 Q	<div>124.6</div> <div>-540.00550.0</div>	<div>45.6</div> <div>-180.000180.0</div>	<div>31.0</div> <div>-100.000110.0</div>	<div>25.3</div> <div>-71.00001.0</div>	<div>23.3</div> <div>-51.00000.0</div>	<div>23.0</div> <div>-39.00000.0</div>	<div>23.2</div> <div>-28.00000.0</div>	<div>24.6</div> <div>-21.00001.0</div>
Coll 4 R	<div>0.46</div> <div>-18.000</div>	<div>-1.57</div> <div>-12.000</div>	<div>-1.66</div> <div>-11.000</div>	<div>-1.72</div> <div>-9.000</div>	<div>-3.24</div> <div>-8.000</div>	<div>-1.70</div> <div>-10.000</div>	<div>-1.38</div> <div>-11.000</div>	<div>-1.38</div> <div>-11.000</div>
Coll 4 Q	<div>1.20</div> <div>-250.000</div>	<div>2.60</div> <div>-19.000</div>	<div>3.65</div> <div>-13.000</div>	<div>4.85</div> <div>-29.000</div>	<div>7.87</div> <div>-18.000</div>	<div>8.01</div> <div>-11.000</div>	<div>9.87</div> <div>-5.500</div>	<div>10.34</div> <div>-1.000</div>
Coll 5 R	<div>1.03</div> <div>-58.000</div>	<div>0.44</div> <div>-6.400</div>	<div>-0.40</div> <div>-6.800</div>	<div>-0.20</div> <div>-6.800</div>	<div>-1.64</div> <div>-8.300</div>	<div>-0.31</div> <div>-14.000</div>	<div>-0.38</div> <div>-19.000</div>	<div>0.29</div> <div>-24.000</div>
Coll 5 Q	<div>0.20</div> <div>-58.000</div>	<div>2.11</div> <div>-25.000</div>	<div>3.66</div> <div>-14.000</div>	<div>4.49</div> <div>-7.000</div>	<div>3.78</div> <div>-2.500</div>	<div>6.86</div> <div>1.100</div>	<div>8.64</div> <div>4.100</div>	<div>9.90</div> <div>7.100</div>

MM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coll 0 M	<div>0.966</div> <div>0.8501.100</div>	<div>0.975</div> <div>0.8501.100</div>	<div>0.979</div> <div>0.8501.100</div>	<div>0.981</div> <div>0.8501.100</div>	<div>0.982</div> <div>0.8501.100</div>	<div>0.982</div> <div>0.8501.100</div>	<div>0.983</div> <div>0.8501.100</div>	<div>0.982</div> <div>0.8501.100</div>
Coll 0 P	<div>-0.316</div> <div>-1.5001.500</div>	<div>-0.485</div> <div>-1.5001.500</div>	<div>-0.379</div> <div>-1.5001.500</div>	<div>-0.260</div> <div>-1.5001.500</div>	<div>-0.175</div> <div>-1.5001.500</div>	<div>-0.101</div> <div>-1.5001.500</div>	<div>-0.026</div> <div>-1.5001.500</div>	<div>-0.005</div> <div>-1.5001.500</div>
Coll 1 M	<div>0.961</div> <div>0.8501.100</div>	<div>0.970</div> <div>0.8501.100</div>	<div>0.974</div> <div>0.8501.100</div>	<div>0.976</div> <div>0.8501.100</div>	<div>0.977</div> <div>0.8501.100</div>	<div>0.977</div> <div>0.8501.100</div>	<div>0.977</div> <div>0.8501.100</div>	<div>0.977</div> <div>0.8501.100</div>
Coll 1 P	<div>-0.296</div> <div>-1.5001.500</div>	<div>-0.476</div> <div>-1.5001.500</div>	<div>-0.360</div> <div>-1.5001.500</div>	<div>-0.238</div> <div>-1.5001.500</div>	<div>-0.134</div> <div>-1.5001.500</div>	<div>-0.087</div> <div>-1.5001.500</div>	<div>-0.032</div> <div>-1.5001.500</div>	<div>0.016</div> <div>-1.5001.500</div>
Coll 2 M	<div>0.986</div> <div>0.8501.100</div>	<div>0.987</div> <div>0.8501.100</div>	<div>0.987</div> <div>0.8501.100</div>	<div>0.986</div> <div>0.8501.100</div>	<div>0.986</div> <div>0.8501.100</div>	<div>0.985</div> <div>0.8501.100</div>	<div>0.985</div> <div>0.8501.100</div>	<div>0.985</div> <div>0.8501.100</div>
Coll 2 P	<div>0.044</div> <div>-1.5001.500</div>	<div>0.046</div> <div>-1.5001.500</div>	<div>0.090</div> <div>-1.5001.500</div>	<div>0.134</div> <div>-1.5001.500</div>	<div>0.151</div> <div>-1.5001.500</div>	<div>0.175</div> <div>-1.5001.500</div>	<div>0.211</div> <div>-1.5001.500</div>	<div>0.219</div> <div>-1.5001.500</div>
Coll 3 M	<div>0.994</div> <div>0.8501.100</div>	<div>0.994</div> <div>0.8501.100</div>	<div>0.994</div> <div>0.8501.100</div>	<div>0.994</div> <div>0.8501.100</div>	<div>0.993</div> <div>0.8501.100</div>	<div>0.992</div> <div>0.8501.100</div>	<div>0.992</div> <div>0.8501.100</div>	<div>0.990</div> <div>0.8501.100</div>
Coll 3 P	<div>0.048</div> <div>-1.5001.500</div>	<div>0.082</div> <div>-1.5001.500</div>	<div>0.138</div> <div>-1.5001.500</div>	<div>0.198</div> <div>-1.5001.500</div>	<div>0.236</div> <div>-1.5001.500</div>	<div>0.286</div> <div>-1.5001.500</div>	<div>0.334</div> <div>-1.5001.500</div>	<div>0.350</div> <div>-1.5001.500</div>
Coll 4 M	<div>0.999</div> <div>0.8501.100</div>	<div>0.999</div> <div>0.8501.100</div>	<div>1.000</div> <div>0.8501.100</div>	<div>0.999</div> <div>0.8501.100</div>	<div>1.000</div> <div>0.8501.100</div>	<div>1.000</div> <div>0.8501.100</div>	<div>1.000</div> <div>0.8501.100</div>	<div>0.999</div> <div>0.8501.100</div>
Coll 4 P	<div>0.116</div> <div>-1.5001.500</div>	<div>0.124</div> <div>-1.5001.500</div>	<div>0.210</div> <div>-1.5001.500</div>	<div>0.286</div> <div>-1.5001.500</div>	<div>0.396</div> <div>-1.5001.500</div>	<div>0.454</div> <div>-1.5001.500</div>	<div>0.525</div> <div>-1.5001.500</div>	<div>0.577</div> <div>-1.5001.500</div>
Coll 5 M	<div>1.003</div> <div>0.8501.100</div>	<div>1.002</div> <div>0.8501.100</div>	<div>1.003</div> <div>0.8501.100</div>	<div>1.003</div> <div>0.8501.100</div>	<div>1.002</div> <div>0.8501.100</div>	<div>1.005</div> <div>0.8501.100</div>	<div>1.007</div> <div>0.8501.100</div>	<div>1.007</div> <div>0.8501.100</div>
Coll 5 P	<div>0.040</div> <div>-1.5001.500</div>	<div>0.106</div> <div>-1.5001.500</div>	<div>0.264</div> <div>-1.5001.500</div>	<div>0.377</div> <div>-1.5001.500</div>	<div>0.561</div> <div>-1.5001.500</div>	<div>0.694</div> <div>-1.5001.500</div>	<div>0.775</div> <div>-1.5001.500</div>	<div>0.910</div> <div>-1.5001.500</div>

HDIL BEFORE LOG VERIFICATION SUMMARY

DAYS SINCE CAL: 44

UNIT #: 3880TA HL6670

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
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HDIL AFTER LOG VERIFICATION SUMMARY

DAYS SINCE CAL: 44

UNIT #: 3880TA HL6670

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
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Coll 4 R	0.019	-0.003	-0.011	-0.008	-0.007	0.003	-0.003	0.009
Coll 4 Q	-0.022	0.005	0.007	-0.013	0.002	-0.006	-0.005	-0.003
Coll 5 R	0.066	-0.013	-0.010	0.015	0.004	0.013	-0.010	-0.014
Coll 5 Q	-0.041	-0.016	0.037	-0.016	0.008	0.011	0.005	0.002

ELEC. GAINS 10 KHZ 30 KHZ 50 KHZ 70 KHZ 90 KHZ 110 KHZ 130 KHZ 150 KHZ

Coll 0 M	162.41	160.98	158.09	153.83	148.24	141.38	133.30	124.05
Coll 0 P	7.453	25.265	42.506	59.685	76.850	94.022	111.223	128.428
Coll 1 M	281.78	279.21	274.08	266.48	256.47	244.20	229.73	213.19
Coll 1 P	7.633	25.732	43.280	60.764	78.247	95.743	113.231	130.699
Coll 2 M	577.16	572.24	562.30	547.47	527.85	503.45	474.65	441.60
Coll 2 P	7.727	26.136	43.977	61.779	79.595	97.430	115.297	133.184
Coll 3 M	924.87	916.69	899.90	875.18	842.50	802.20	755.23	701.06
Coll 3 P	7.500	25.570	43.044	60.449	77.851	95.258	112.689	130.084
Coll 4 M	1457.6	1443.9	1415.9	1374.6	1321.1	1255.4	1178.8	1092.5
Coll 4 P	7.656	25.872	43.512	61.053	78.585	96.072	113.524	130.915
Coll 5 M	2979.5	2956.3	2906.8	2831.6	2731.3	2606.5	2457.3	2286.2
Coll 5 P	7.699	26.076	43.905	61.699	79.516	97.384	115.304	133.228

INSTRUMENT CONFIGURATION

Source File: /mnt1/625062/U8625062-1.d

FOCUS CABLEHEAD

Diameter : 3.13"
Length : 3.17'
Weight : 15.1 lbs
Series : CABL31B
Mnemonic : CBLH

FOCUS SWIVEL

Diameter : 3.13"
Length : 4.58'
Weight : 50.1 lbs
Series : 3950XA
Mnemonic : SWVL

FOCUS TEN/TEMP/MUD RES/ACCEL

Diameter : 3.13"
Length : 4.31'
Weight : 61 lbs
Series : 3980XA
Mnemonic : TTMA

FOCUS TELEMETRY (POWER SECTION)

Diameter : 3.13"
Length : 3.71'
Weight : 48.1 lbs
Series : 351BFB
Mnemonic : TMCR

FOCUS EB/EC TELEMETRY GAMMA RAY

Diameter : 3.13"
Length : 5.83'
Weight : 63 lbs
Series : 751BEC
Mnemonic : CR
Measure Point: 4.34': CR MP

FOCUS COMPENSATED NEUTRON

Diameter : 3.13"

53.34'

CR MP 36.97'

Length : 4.81'
Weight : 65 lbs
Series : 3436XA
Mnemonic : CN
Measure Point : 1.92' : LSN MP
Measure Point : 1.46' : SSN MP

LSN MP : 29.83'
SSN MP : 29.38'

FOCUS Z-DENSILOC

Diameter : 3.75"
Length : 9.58'
Weight : 200 lbs
Series : 3333XA
Mnemonic : ZDL
Measure Point : 4.33' : CR1 MP
Measure Point : 1.69' : LSD / CR2 MP
Measure Point : 1.29' : SSD MP

CR1 MP : 22.67'

LSD / CR2 MP : 30.02'
SSD MP : 19.63'

FOCUS KNUCKLE JOINT

Diameter : 2.13"
Length : 1.50'
Weight : 30 lbs
Series : 3930XA

FOCUS KNUCKLE JOINT

Diameter : 2.13"
Length : 1.50'
Weight : 30 lbs
Series : 3930XA

FOCUS HIGH DEFINITION INDUCTION TOOL

Diameter : 3.13"
Length : 13.33'
Weight : 115 lbs
Series : 1530XA
Mnemonic : HDIL
Measure Point : 7.17' : COIL 5 MP
Measure Point : 4.67' : COIL 4 MP
Measure Point : 4.67' : COIL 3 MP
Measure Point : 3.67' : COIL 2 MP
Measure Point : 3.17' : COIL 1 MP
Measure Point : 2.67' : COIL 0 MP
Measure Point : 1.14' : SP MP

COIL 5 MP : 9.17'

COIL 4 MP : 7.67'

COIL 3 MP : 6.17'

COIL 2 MP : 5.67'

COIL 1 MP : 5.17'

COIL 0 MP : 4.67'

SP MP : 3.14'


FOCUS PINEAPPLE / CABBAGE

HOLE FINDER

Diameter : 3.63"
Length : 1.50'
Weight : 7 lbs
Series : HFND1B

0.00'

TOTAL LENGTH: 52.34'
TOTAL WEIGHT: 703 lbs
MAX DIAMETER: 0'6.13"

	COMPANY	WPX ENERGY INC		FILE NO:	US625062
	WELL	SAVAGE RWF 322-25		API NO:	05045219660000
	FIELD	RULISON			
	COUNTY	GARFIELD	STATE	CO	
LOCATION:		ELEVATIONS:		S25 T6S R94W	
SHL: 2466' FNL 1424' FWL		KB 6058 FT		RIG: CYCLONE 17	
BHL: 1465' FNL 2219' FWL		DF		PAD: RWF 22-25	
SEC 25 TWP 6S RGE 94W		GL 6037 FT			
		DATE		20-Feb-2014	