

FILE NO:
US625262
API NO:
05045206550000

COMPANY
WELL
FIELD
COUNTY
STATE

WPX ENERGY ROCKY MTN
FEDERAL PA 313-12
PARACHUTE
GARFIELD
CO

Ver. 3.87
SEC 12 T7S R9SW
PAD: PA 23-12
RIG: NABORS 577

LOCATION:
SHL: 2586' FSL 1723' FWL
BHL: 2143' FSL 518' FWL
SEC 12 T7S R9SW

OTHER SERVICES
NONE

PERMANENT DATUM
LOG MEASURED FROM
DRILL MEAS. FROM

ELEVATIONS:
KB 6533 FT
DF 6533 FT
GL 6507 FT

DATE	18-Oct-2013
RUN	1
SERVICE ORDER	US625262
DEPTH DRILLER	8242 FT
DEPTH LOGGER	8240 FT
BOTTOM LOGGED INTERVAL	8237 FT
TOP LOGGED INTERVAL	0 FT
CASING DRILLER	9.625 IN @ 857 FT
CASING LOGGER	854 FT
BIT SIZE	8.75 IN
TYPE OF FLUID IN HOLE	WBM
DENSITY	11.5 LBG
PH	9.7
SOURCE OF SAMPLE	FLOWLINE
RM AT MEAS. TEMP.	1.53 OHMM @ 75 DEGF
RM AT MEAS. TEMP.	1.15 OHMM @ 70 DEGF
RM AT MEAS. TEMP.	1.91 OHMM @ 71 DEGF
SOURCE OF RMF	CALC
RM AT BHT	9.43 OHMM @ 189.9 DEGF
TIME SINCE CIRCULATION	6 HR
MAX. RECORDED TEMP.	195 DEGF
EQUIP. NO.	6670
RECORDED BY	D. SMITH
WITNESSED BY	C. WILSON

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	857 FT	8242 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN	32 LB/F		0 FT	857 FT

REMARKS

RUN 1 TRIP 1: HDIL-ZDL-CN-GR-TTMA RUN IN COMBINATION

BVOL/CVOL CALCULATED IN CUBIC FEET
BVOL CALCULATED USING PROPOSED 4.5 INCH PRODUCTION CASING
CALIBER VERIFIED INSIDE CASING

CN MATRIX = SANDSTONE

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

HDIL RAN IN 1.5 INCH STANDOFF
ABC TO CALCULATE MUD CONDUCTIVITY

THANK YOU FOR CHOOSING BAKER HUGHES WIRELINE SERVICES
CREW: SMITH/HOLLAR/COATE

RIG: NABORS 577

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1				
1	1	TTMA	3980XA	10142233	FREE
1	1	TEL/GR	3518EG	10126398	FREE
1	1	CN	2436XA	10362459	DECENTRALIZED
1	1	ZDL	2223XA	10102922	PAD DEVICE
1	1	KNUCKLE	3930XA	10139400	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

Patches: 2

Plotted: Mon Oct 28 01:12:09 2013

PARAMETER AND FILTER SUMMARY REPORT

File: /dat1a/625262/n970a02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 693.750 ft BOTTOM DEPTH: 8245.443 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR MED RES	FILTER Ø	medium (1)		TOP	BOTTOM
CALIPER	FILTER Ø	medium (1)		"	"
TENSION	FILTER Ø	medium (1)		"	"
SP-SPDH	FILTER Ø	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	75.0	degF	"	"
	MUD SAMPLE RES	1.530	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

HDIL TEMPERATURE CORRECTION	TEMP CORRECTION	ON	TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON	"	"
	ABC to CALCULATE	MUD CONDUCTIVITY	"	"
	STANDOFF	1.50	"	"
	TOOL POSITION	ECCENTERED	"	"
	Rmud MULTIPLIER	1.000	"	"

CURVE DESCRIPTION REPORT

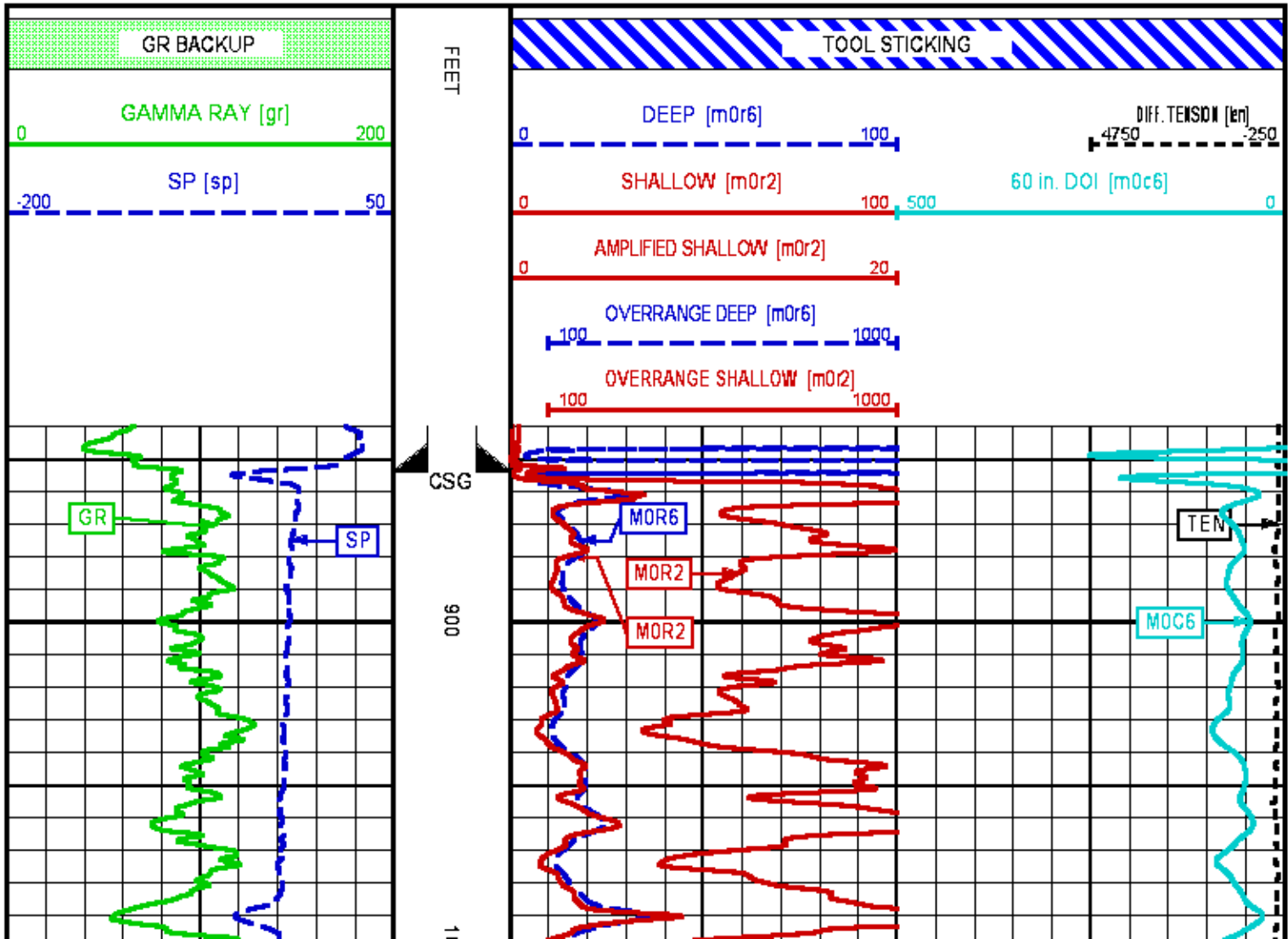
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:GR	Oct 27 21:45:50 2013	GAMMA RAY
F1:MOC6	Oct 27 21:45:50 2013	FOCUSED CONDUCTIVITY, 60-INCH DOI
F1:MOR2	Oct 27 21:45:50 2013	TRUE FOCUSED RESISTIVITY FOR HDIL, 20-INCH DOI
F1:MOR6	Oct 27 21:45:50 2013	TRUE FOCUSED RESISTIVITY FOR HDIL, 60-INCH DOI
F1:SP	Oct 27 21:45:50 2013	SPONTANEOUS POTENTIAL
F1:TEN	Oct 27 21:45:50 2013	DIFFERENTIAL TENSION

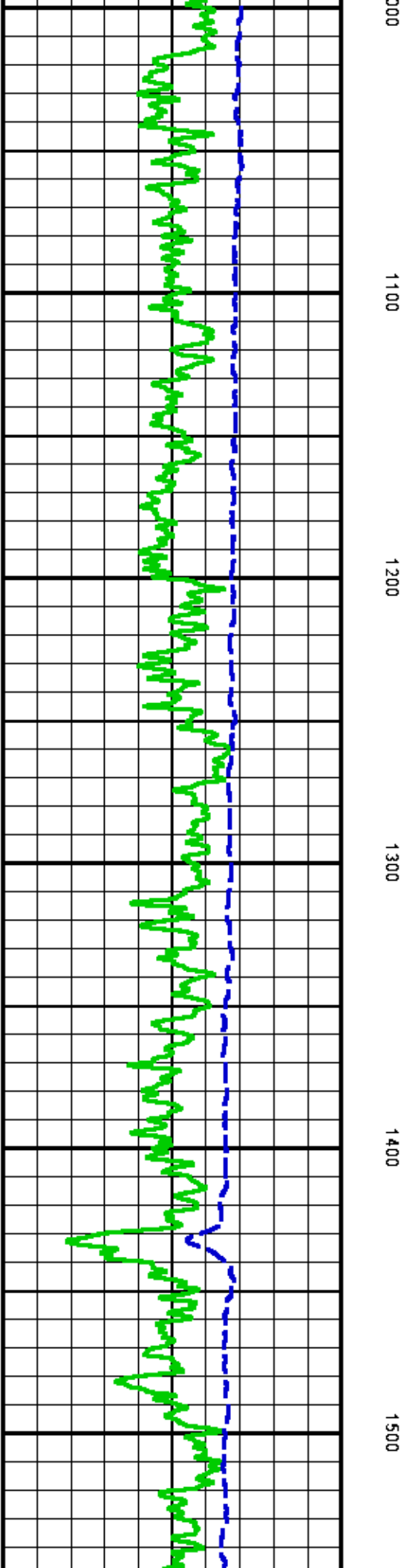
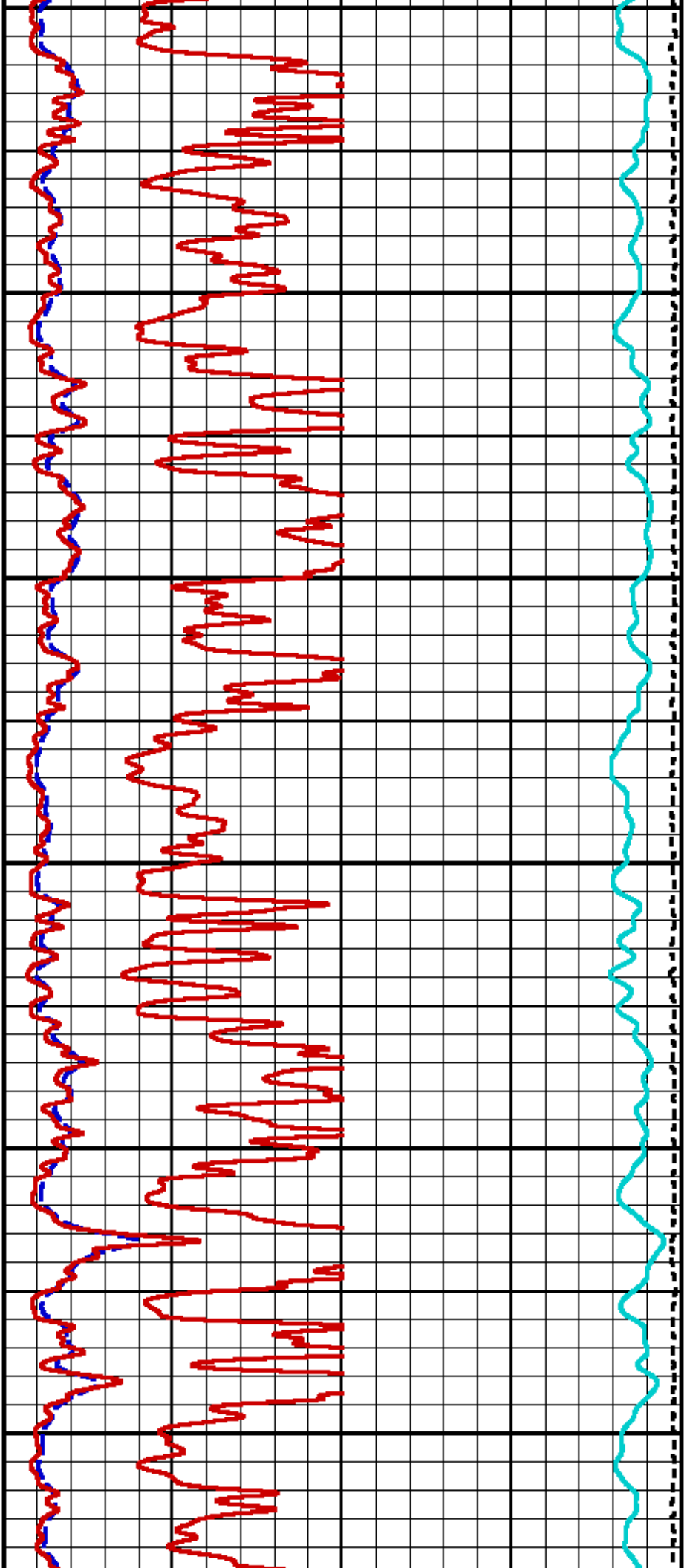
CURVE MEASURE POINT OFFSET

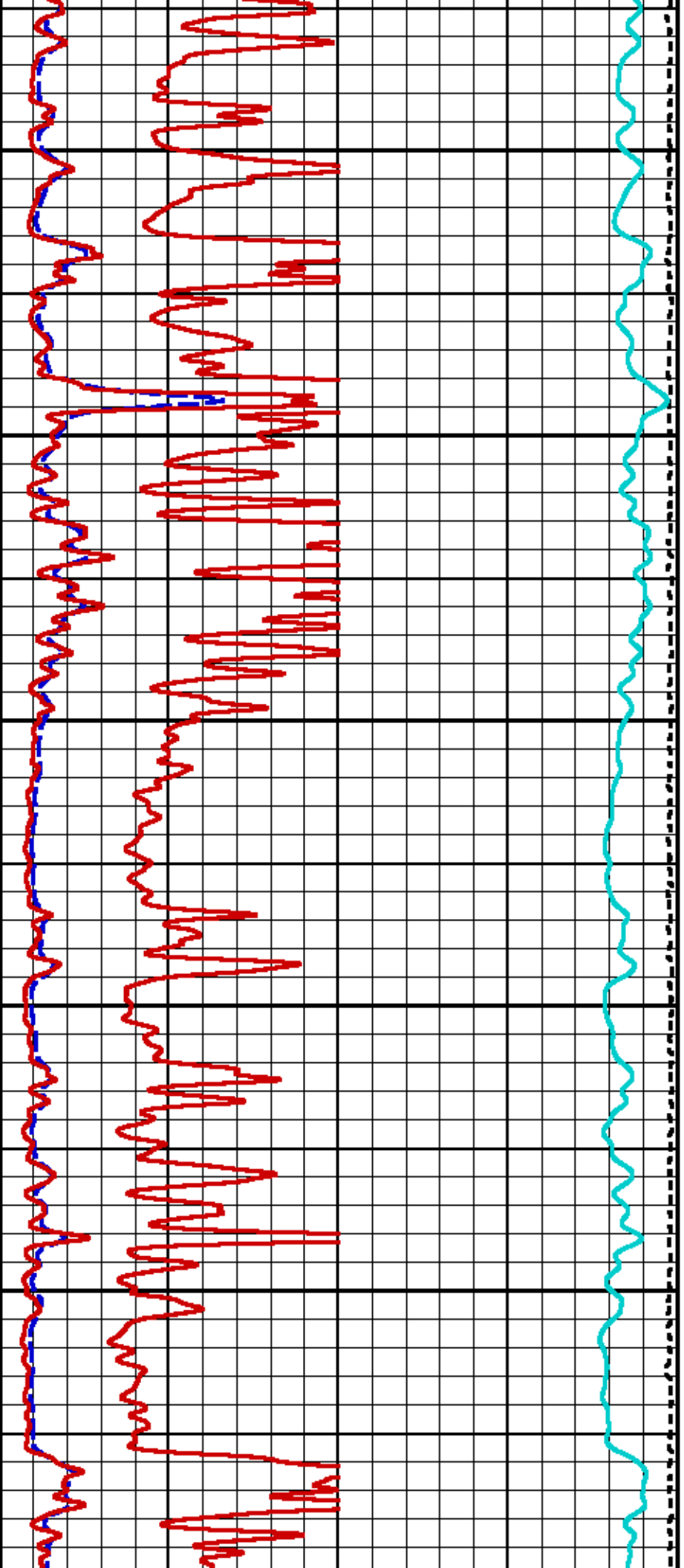
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
GR	35.00	MOR2	2.75	SP	1.25		
MOC6	2.75	MOR6	2.75	TEN	0.00		

Presentation : HL6670:WPX_2IN.fvpdf [2"/100' Scale]
Plot Interval : 840 - 8271.25 Feet

Data File 1 : F1 : HL6670:/dat1a/625262/MAIN_LOG.xtf
Created On : Oct 27 21:45:50 2013
Company : WPX ENERGY ROCKY MTN
Well : FEDERAL PA 313-12
Field : PARACHUTE
File Interval : 4 - 8271.25 Feet
OCT : n970a







1600

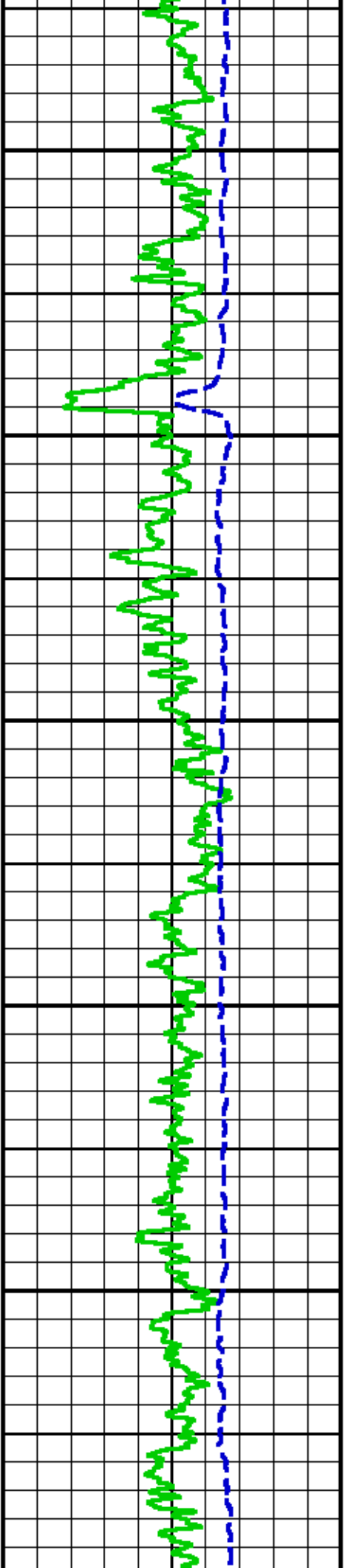
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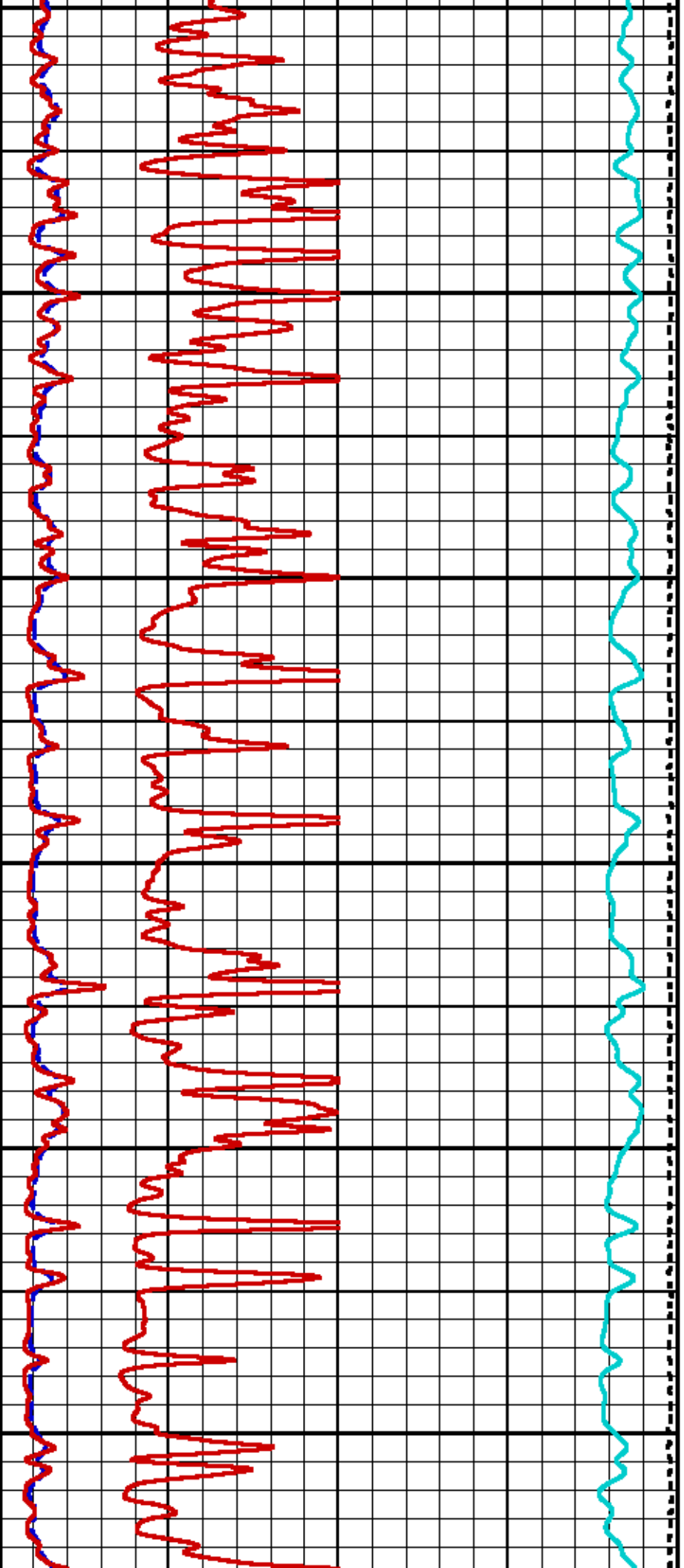
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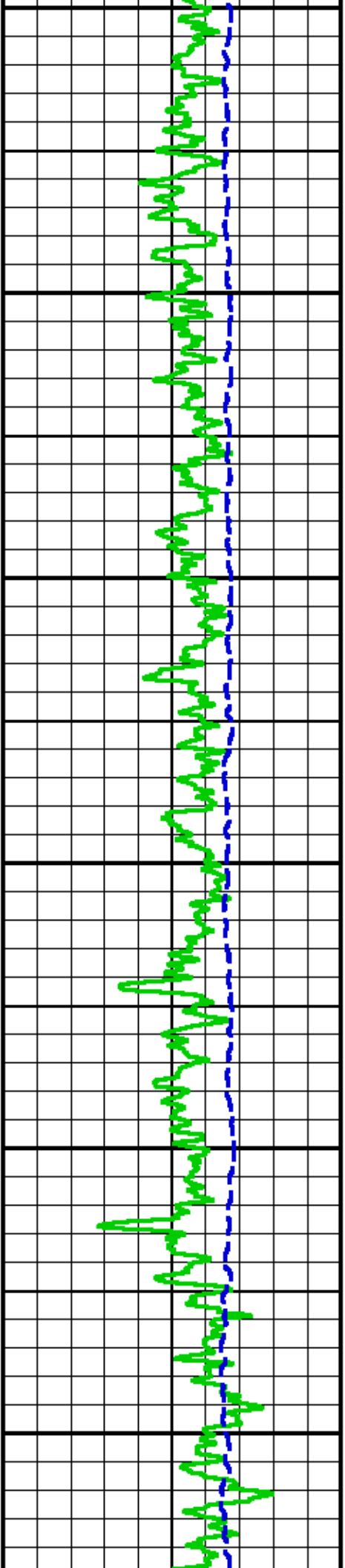
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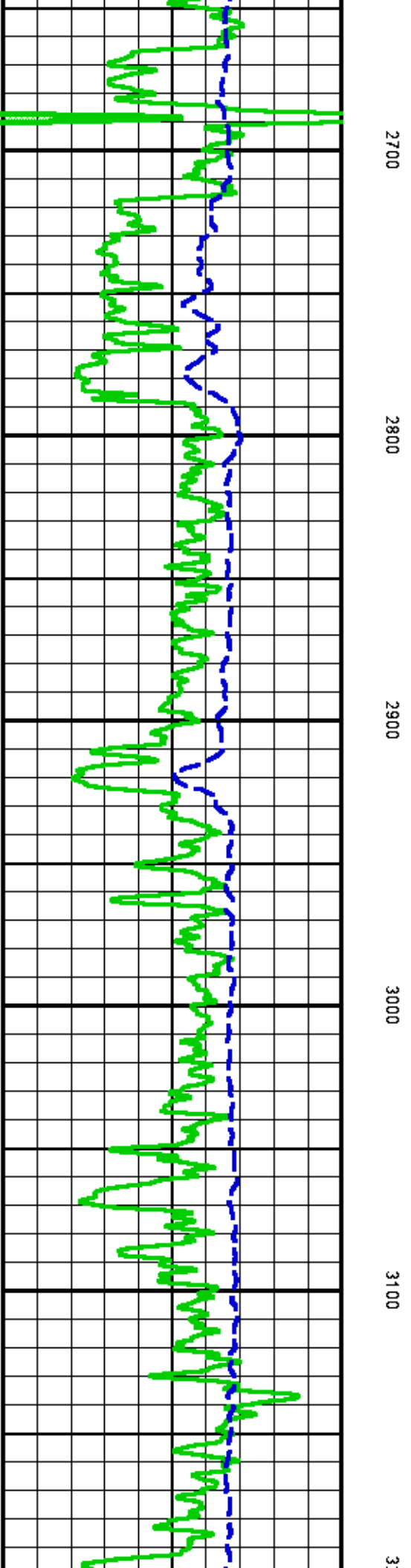
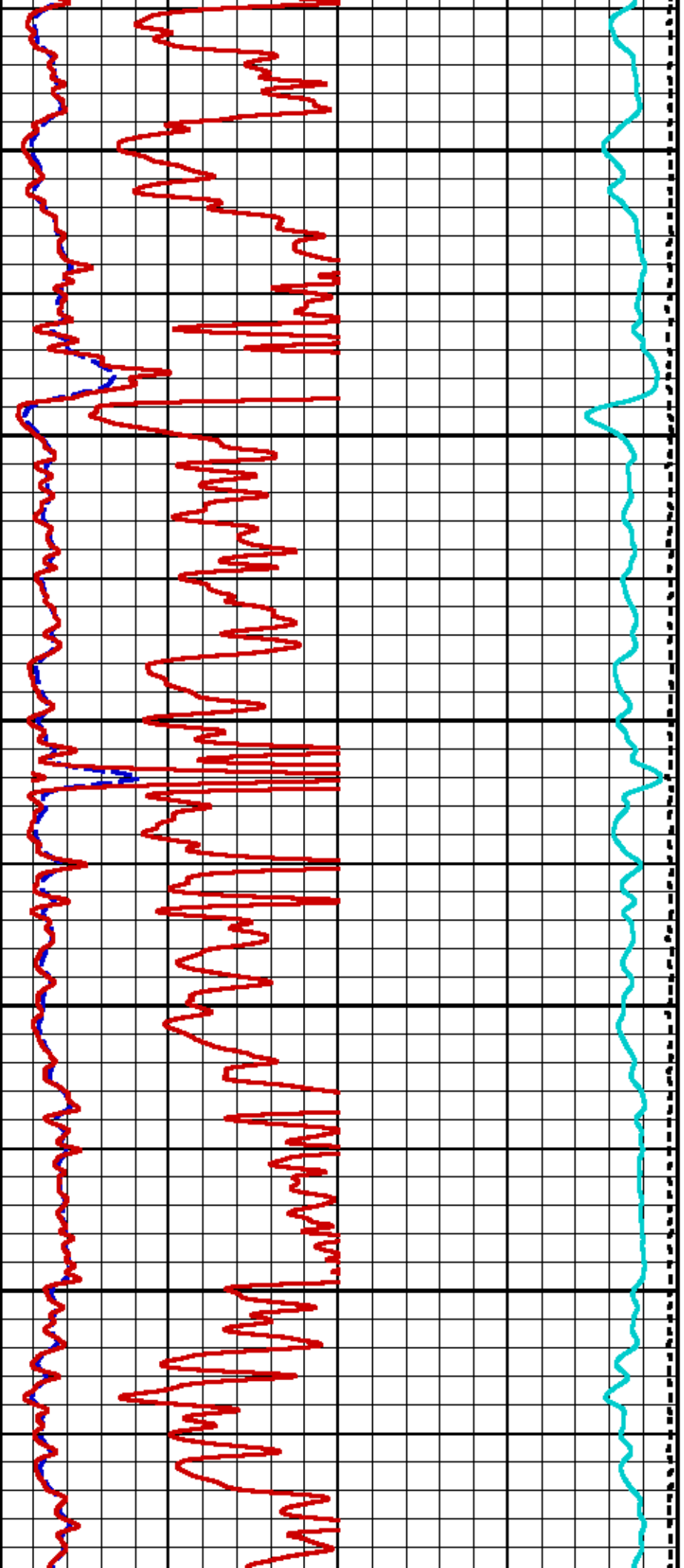
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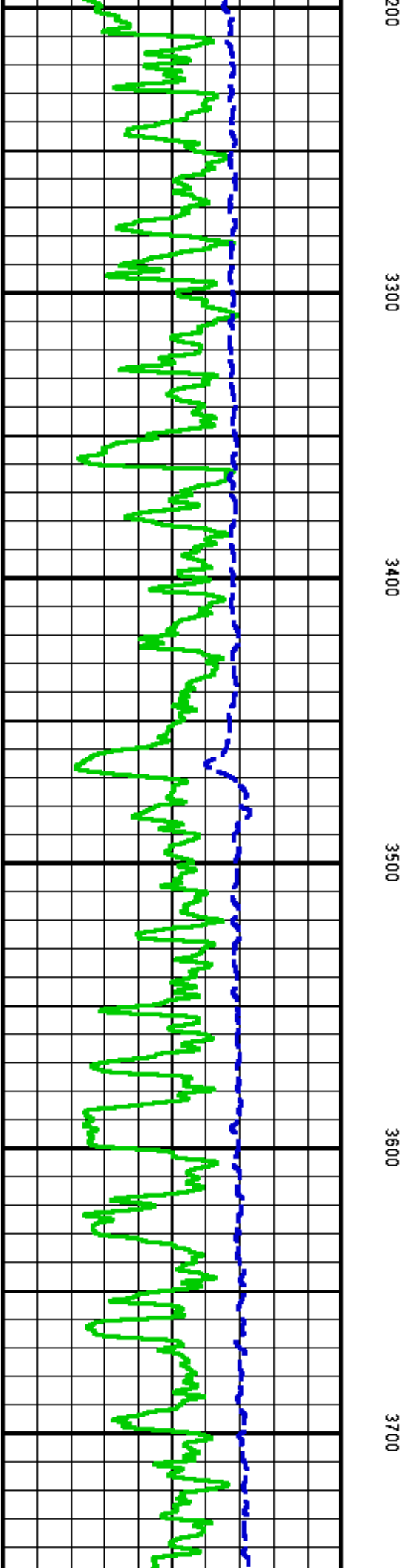
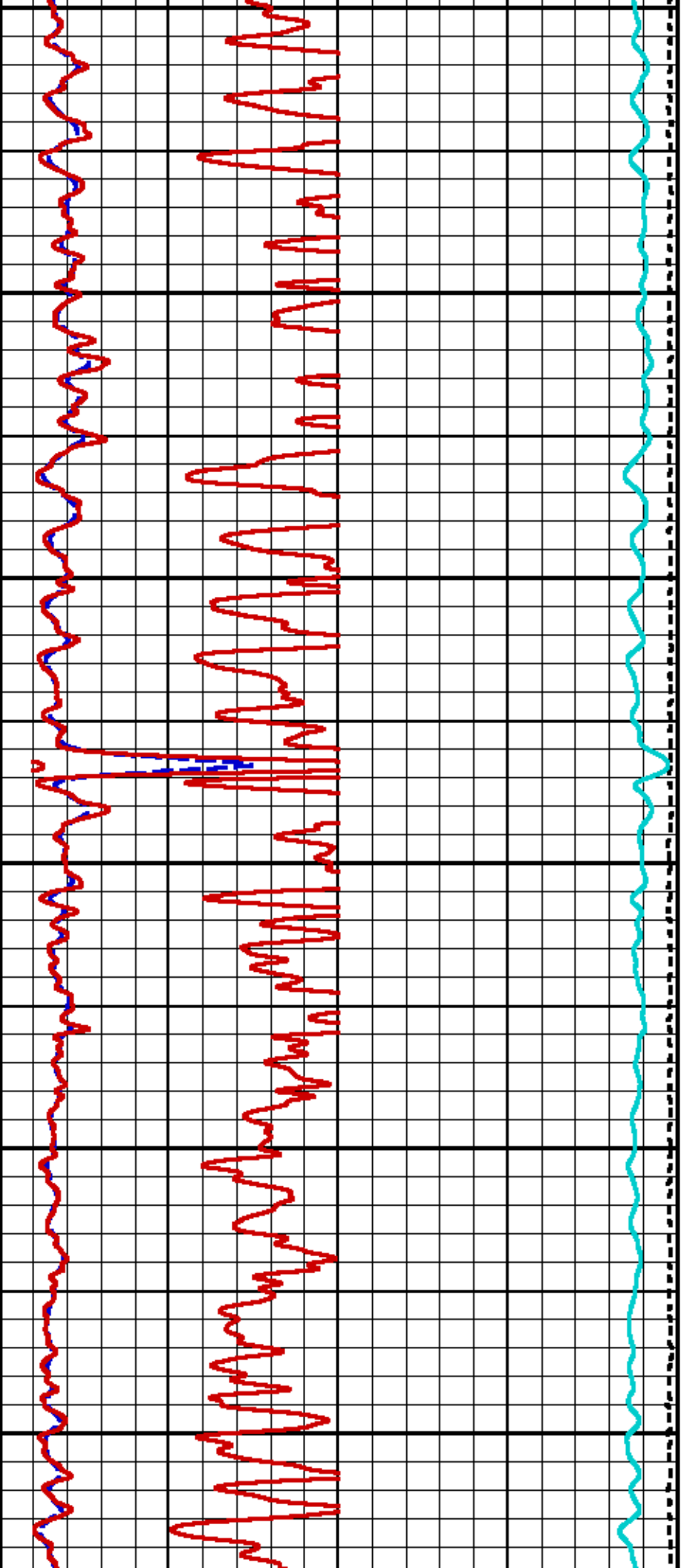


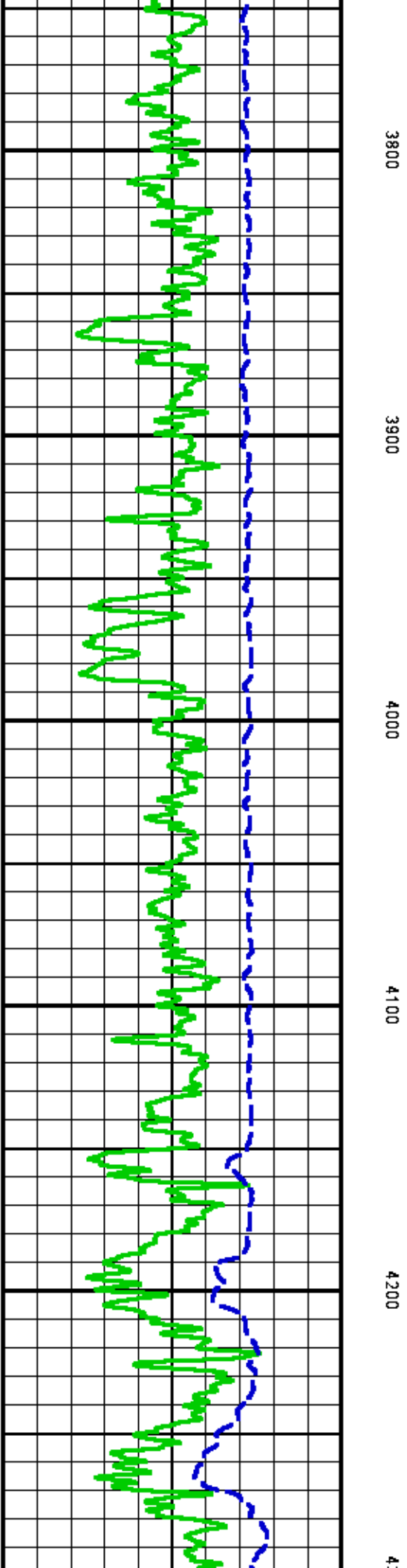
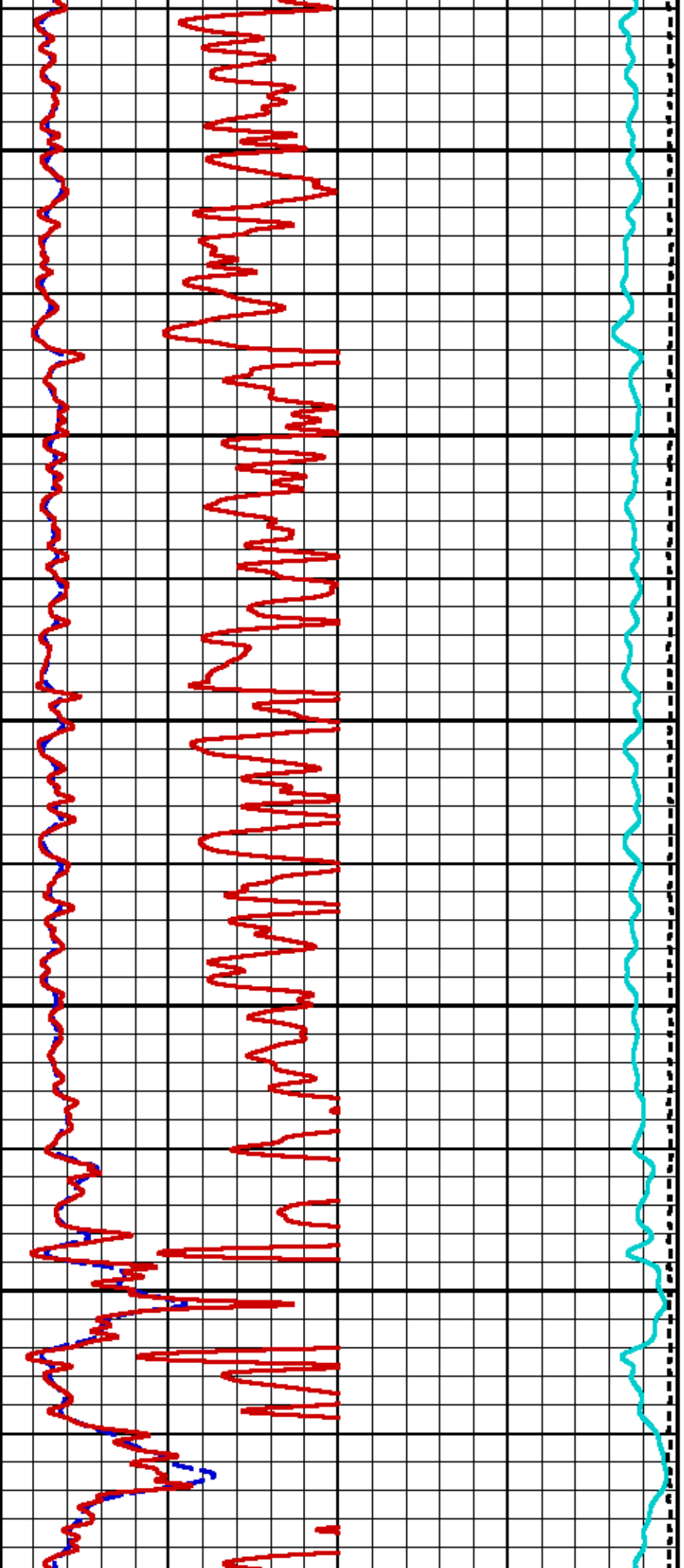


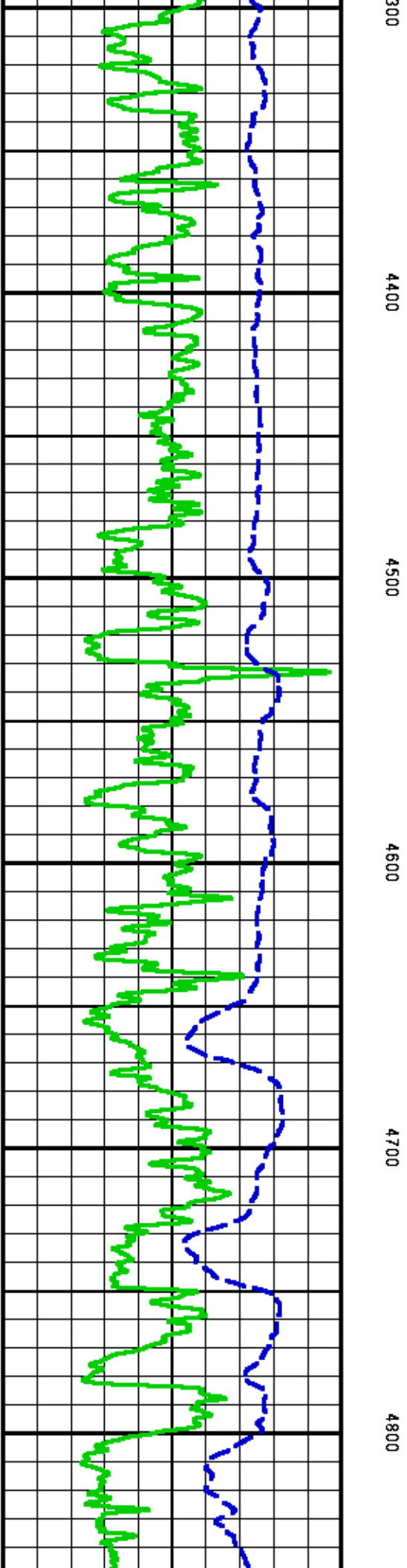
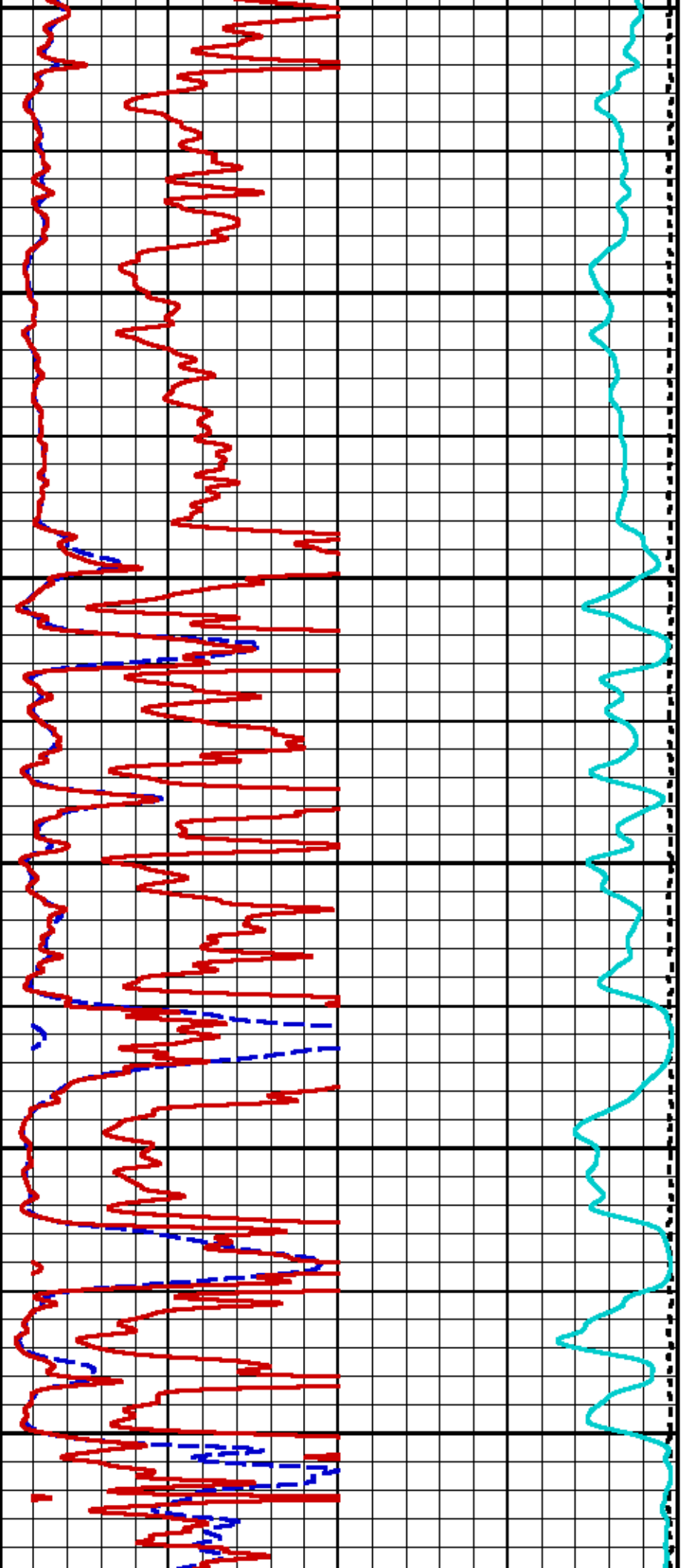
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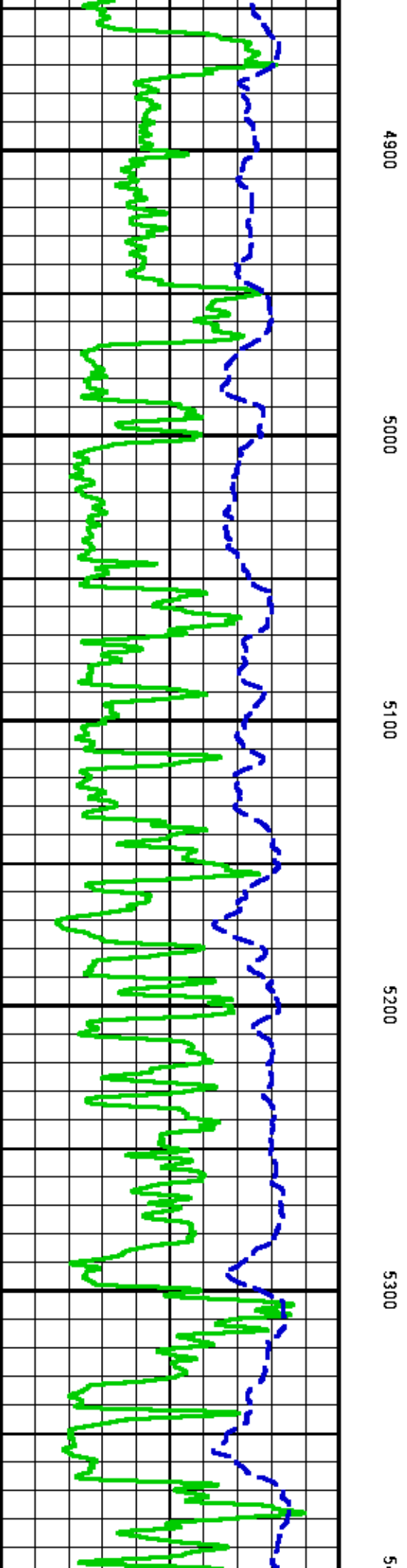
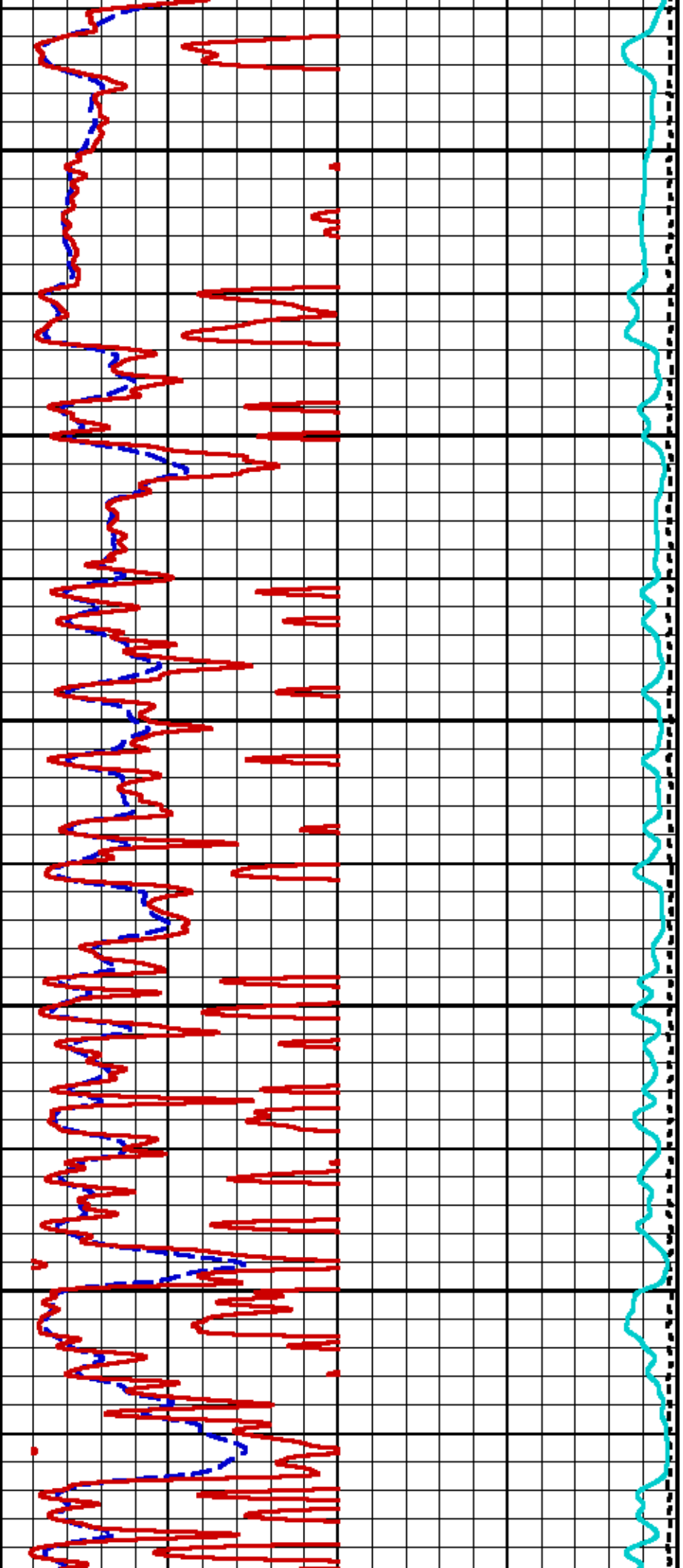


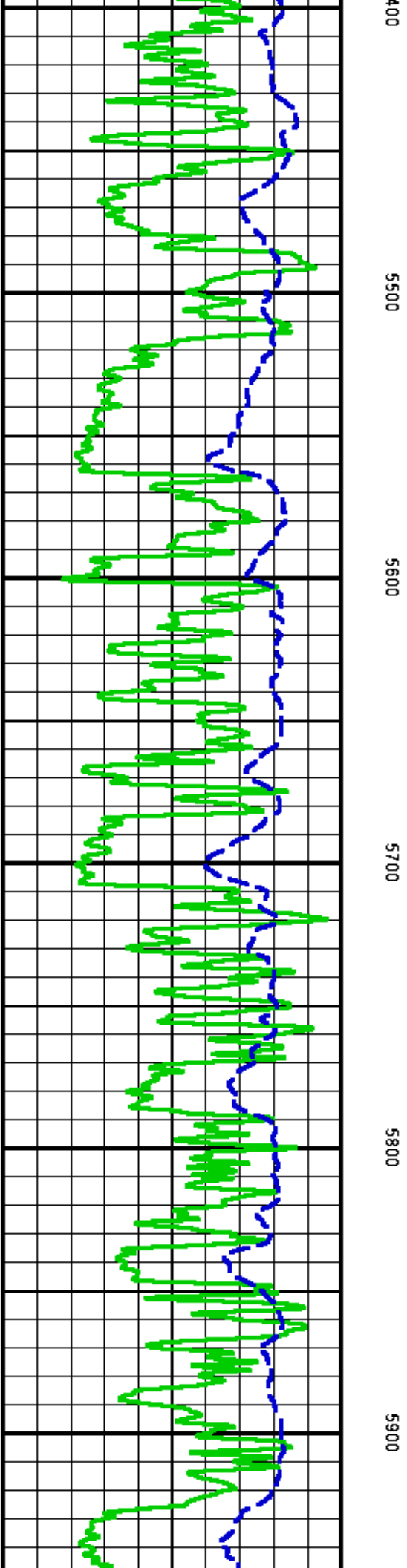
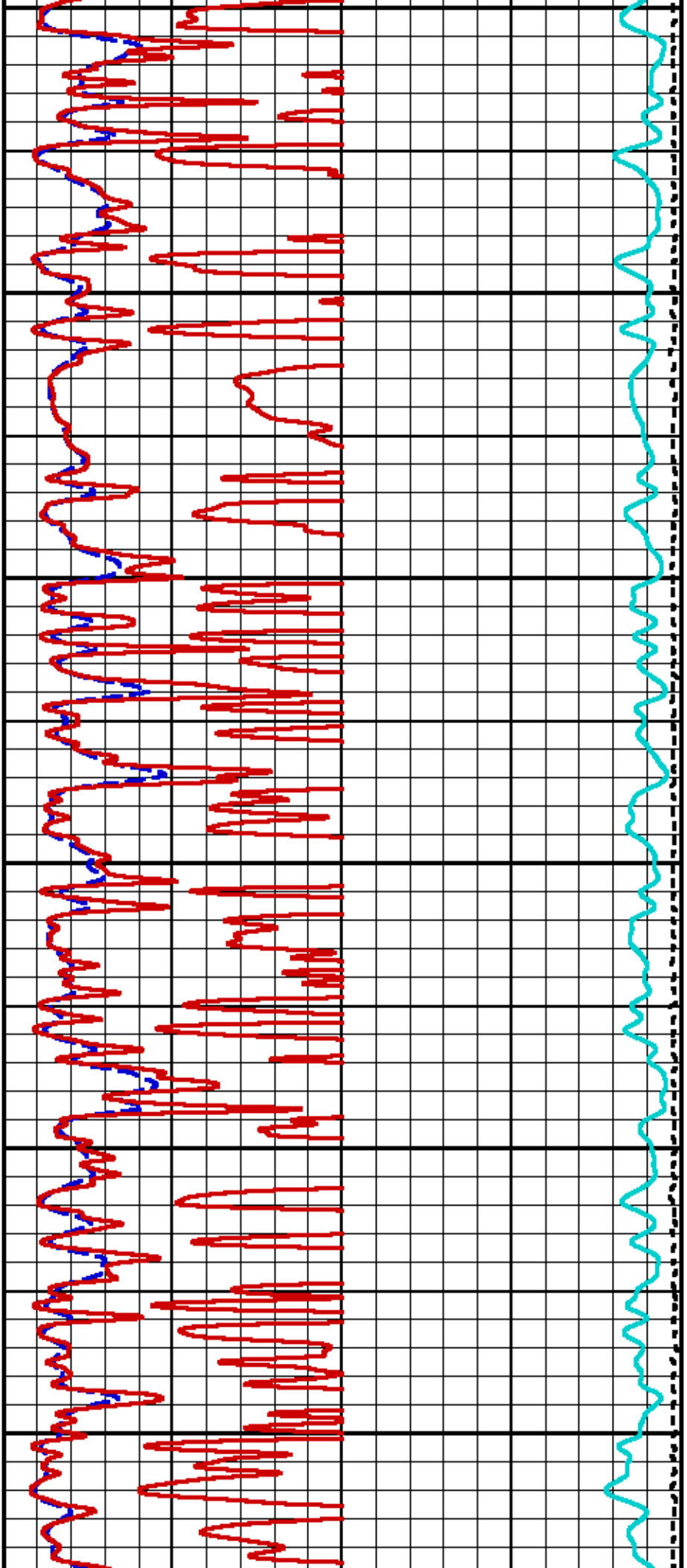


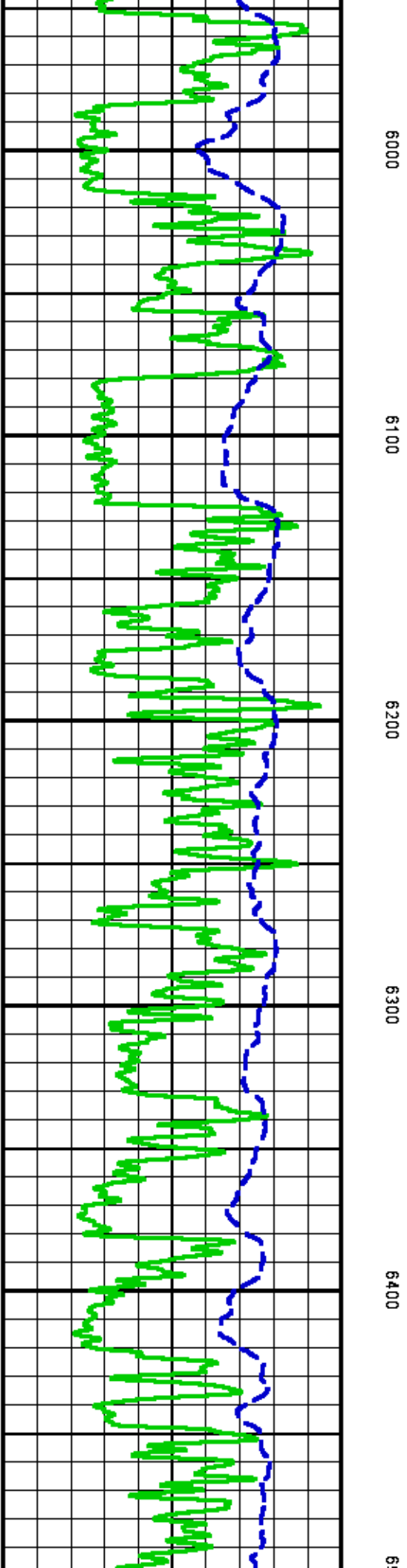
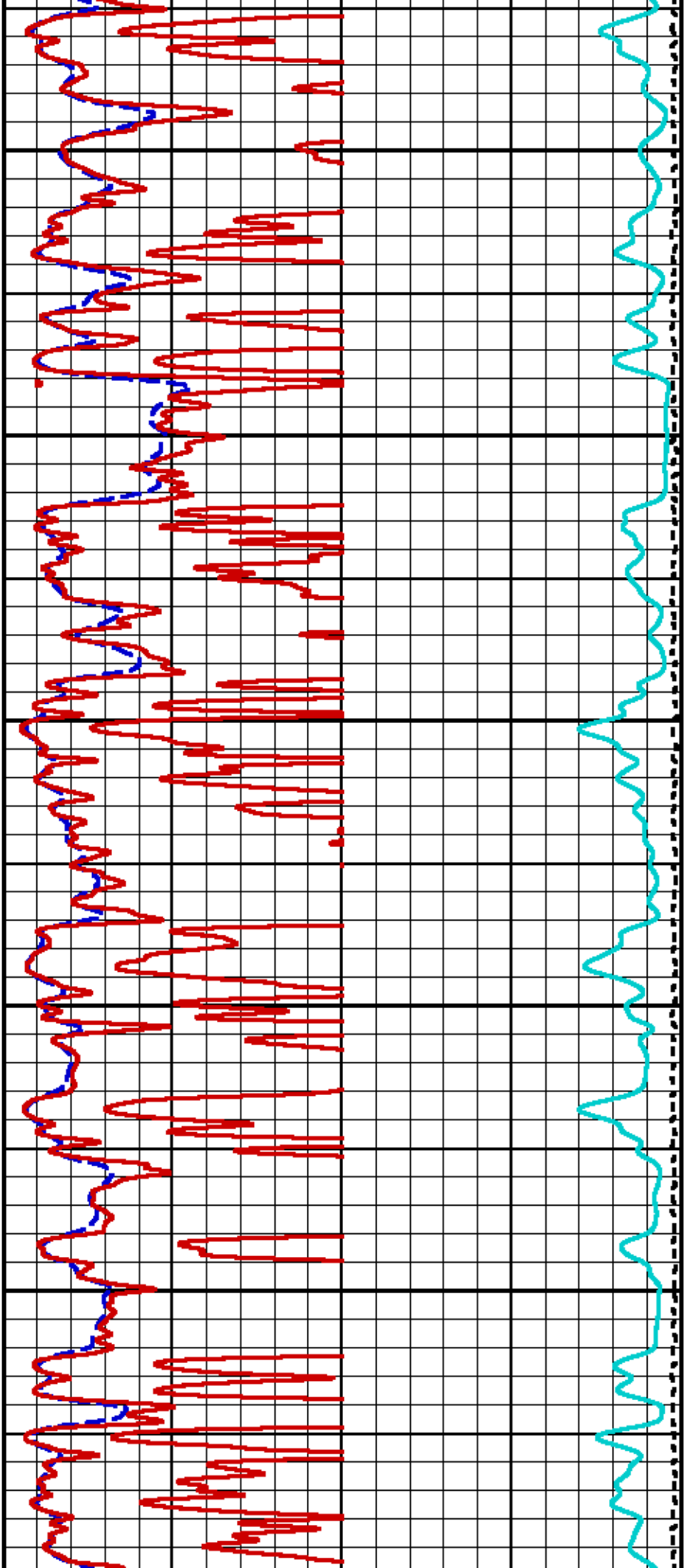


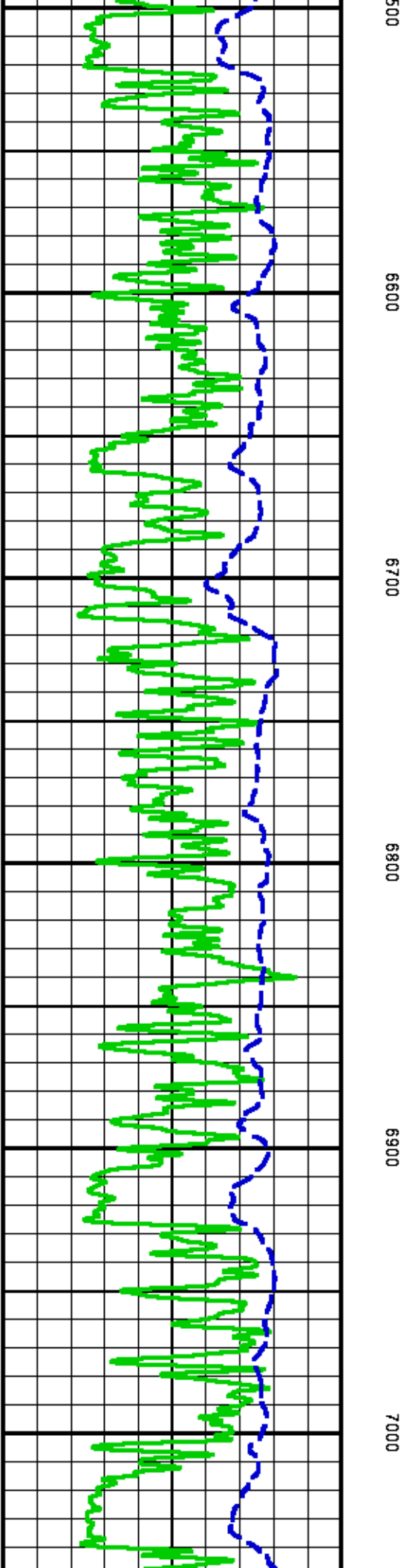
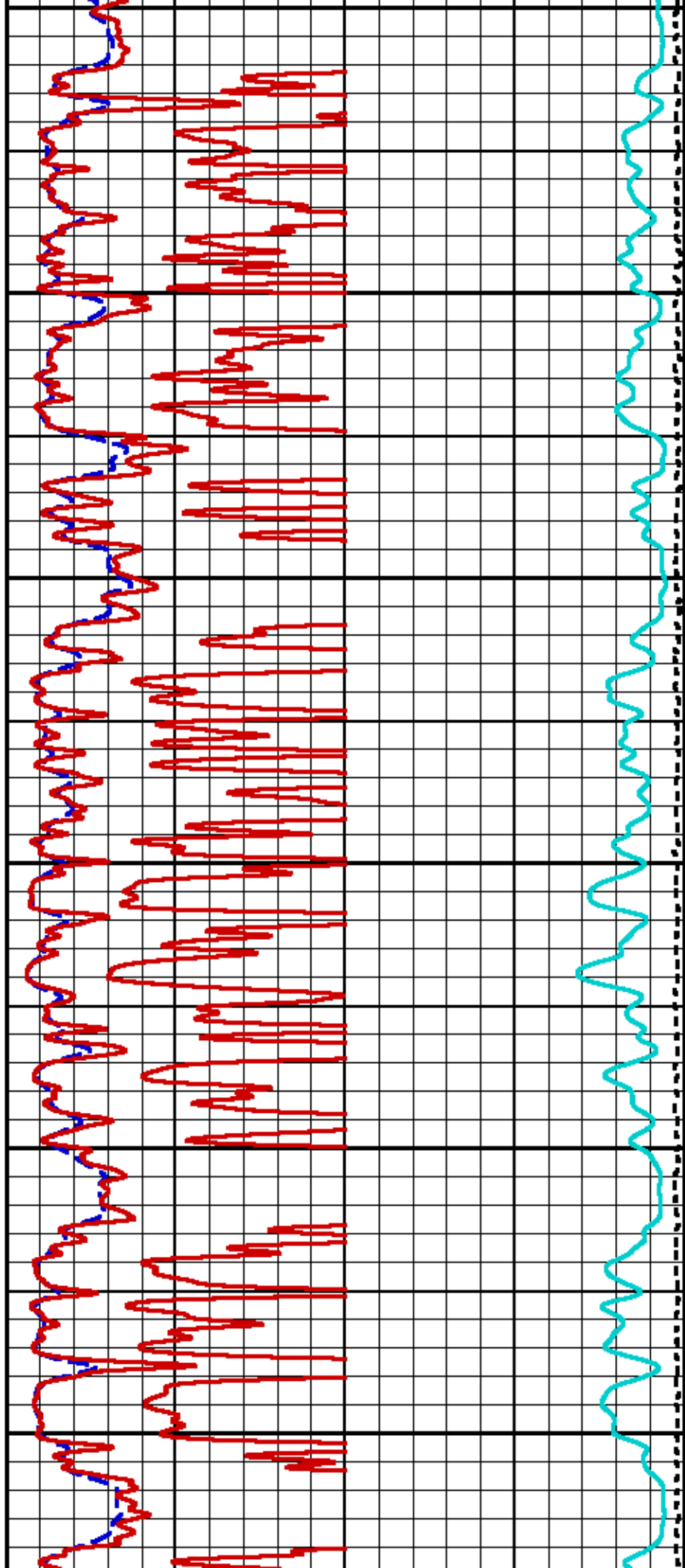


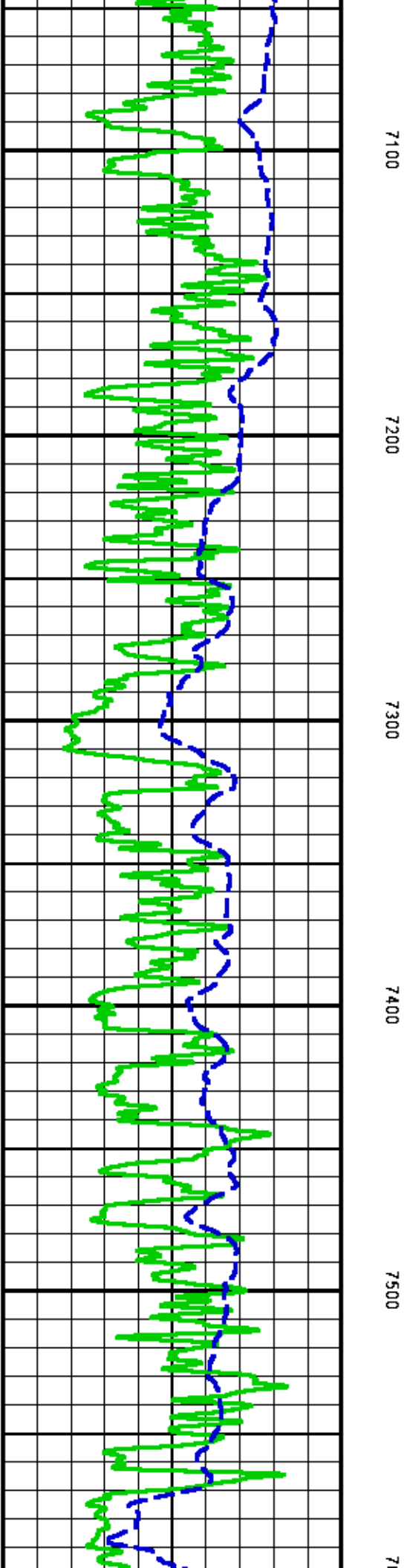
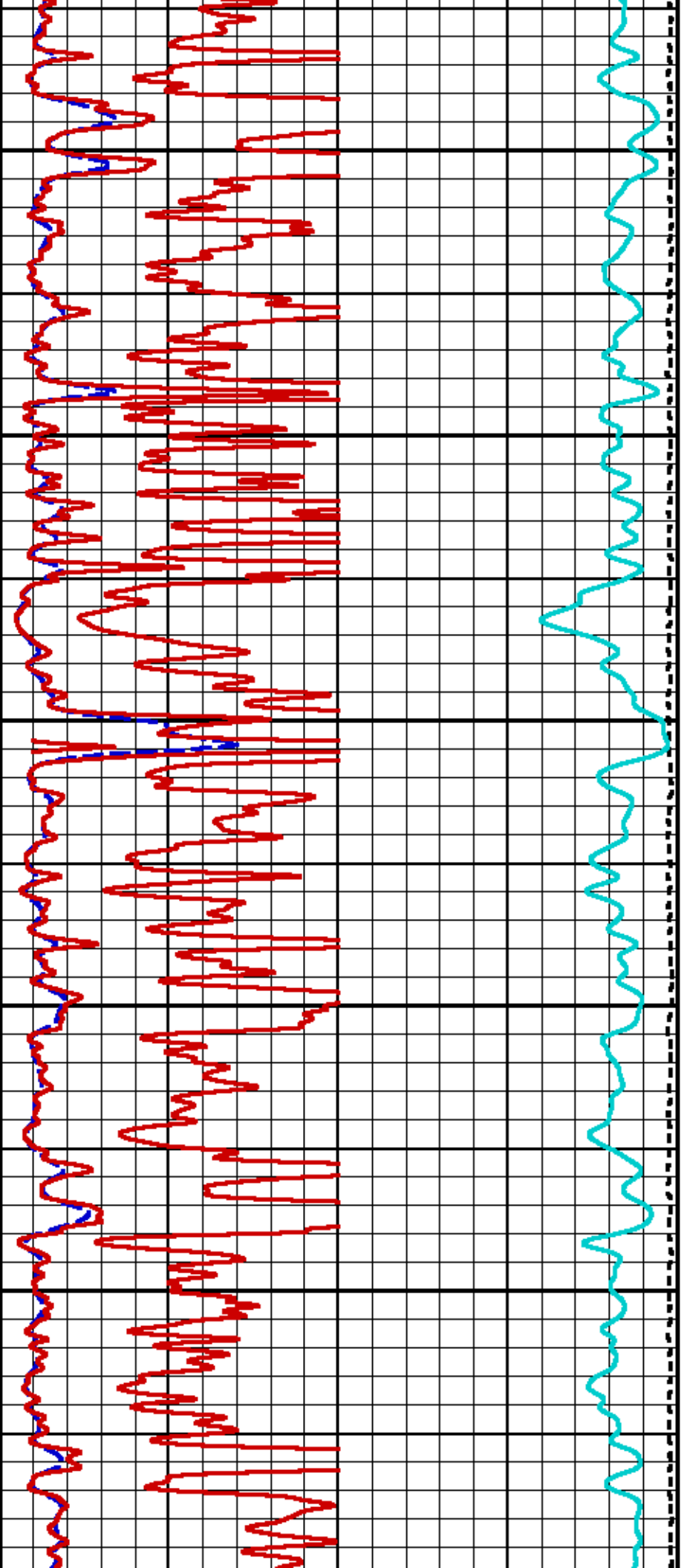


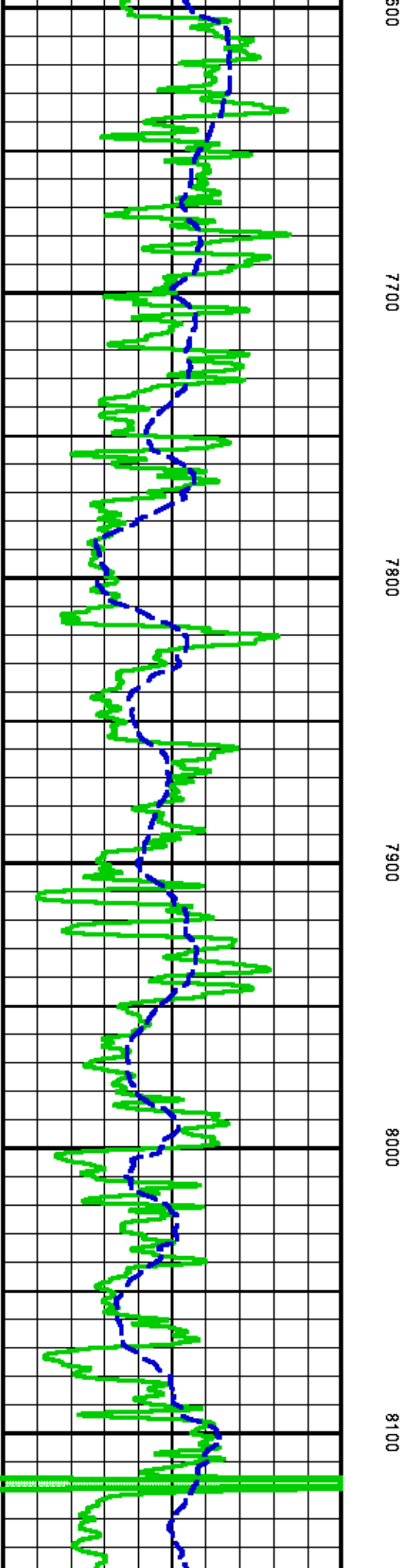
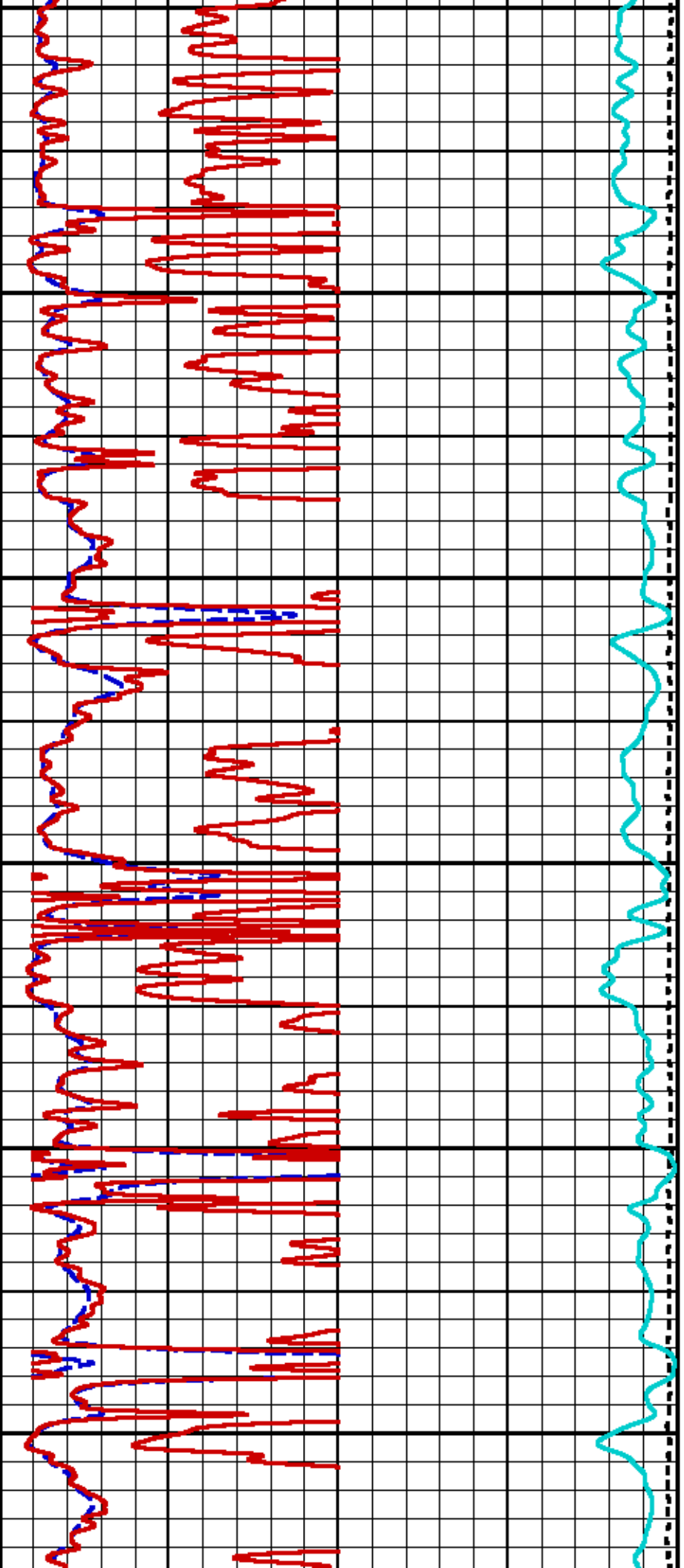


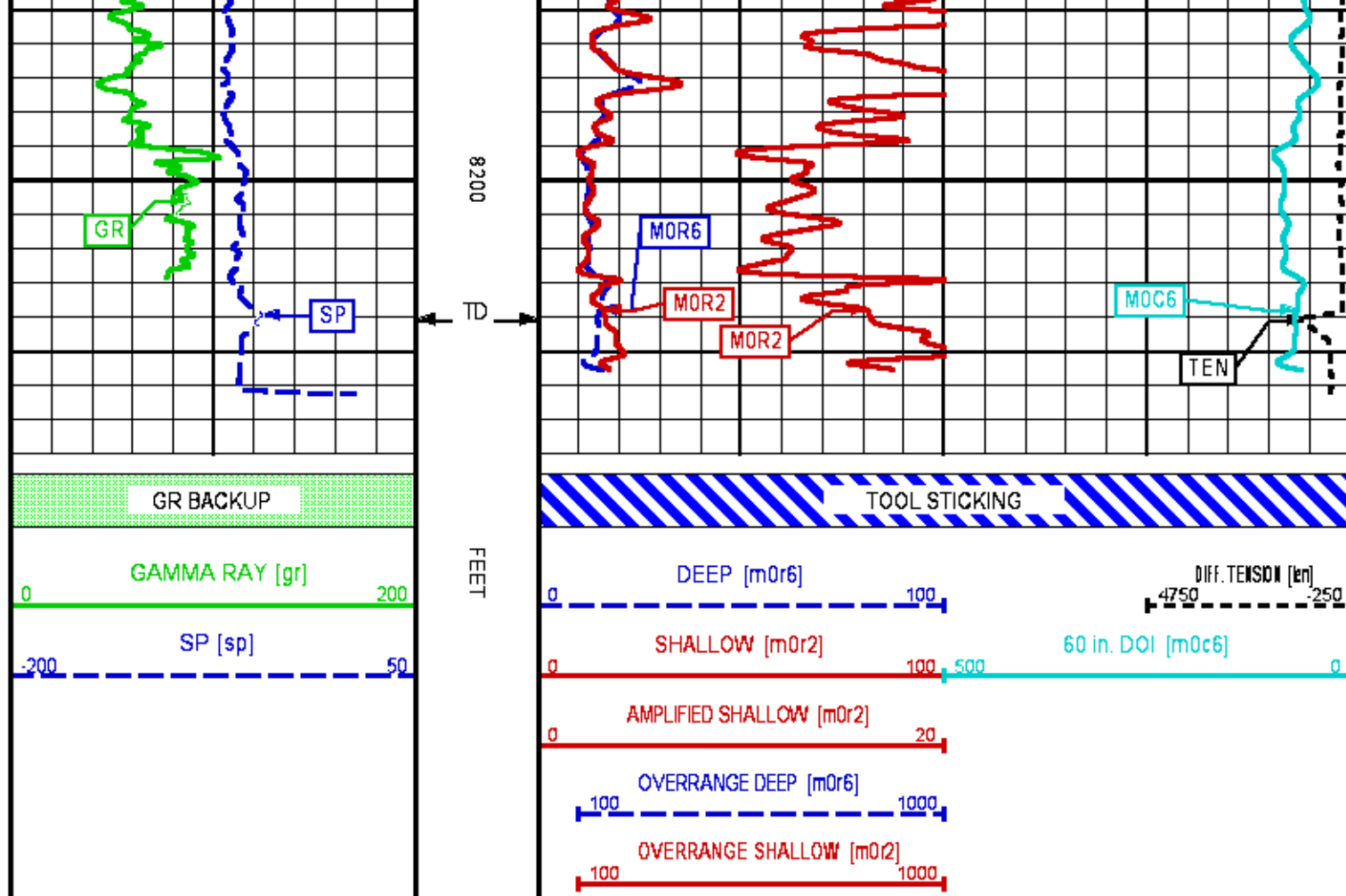












MAIN LOG 5"/100FT SCALE

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
Patches: 2

Plotted: Mon Oct 28 01:09:43 2013

PARAMETER AND FILTER SUMMARY REPORT

File: /dat1a/625262/n970a02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 693.750 ft BOTTOM DEPTH: 8245.443 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 (hrd1s*)	medium		"	"
	FILTER (hrd2*)	medium		"	"
	FILTER (hrd2s*)	medium		"	"
	FILTER (soft*)	medium		"	"
SP-SPDH	FILTER ()	heavy (3)		"	"

BOREHOLE & CEMENT

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	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	75.0	degF	"	"
	MUD SAMPLE RES	1.530	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	800	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	9.625	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	Oct 27 21:45:50 2013	BIT SIZE
F1:BVOL	Oct 27 21:45:50 2013	BOREHOLE VOLUME
F1:CAL	Oct 27 21:45:50 2013	CALIPER
F1:CNCF	Oct 27 21:45:50 2013	FIELD NORMALIZED COMPENSATED NEUTRON POROSITY
F1:CVOL	Oct 27 21:45:50 2013	CEMENT VOLUME
F1:GR	Oct 27 21:45:50 2013	GAMMA RAY
F1:M2R1	Oct 27 21:45:50 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI
F1:M2R6	Oct 27 21:45:50 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	Oct 27 21:45:50 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:PE	Oct 27 21:45:50 2013	PHOTO ELECTRIC CROSS-SECTION
F1:PORZ	Oct 27 21:45:50 2013	POROSITY FOR SELECTABLE MATRIX
F1:SP	Oct 27 21:45:50 2013	SPONTANEOUS POTENTIAL
F1:TEN	Oct 27 21:45:50 2013	DIFFERENTIAL TENSION
F1:ZCOR	Oct 27 21:45:50 2013	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 MAIN.fvpdf [5"/100' Scale]

Plot Interval
: 4 - 8271.25 Feet

Data File 1
: F1 : HL6670:/dat1a/625262/MAIN_LOG.xtf

Created On
: Oct 27 21:45:50 2013

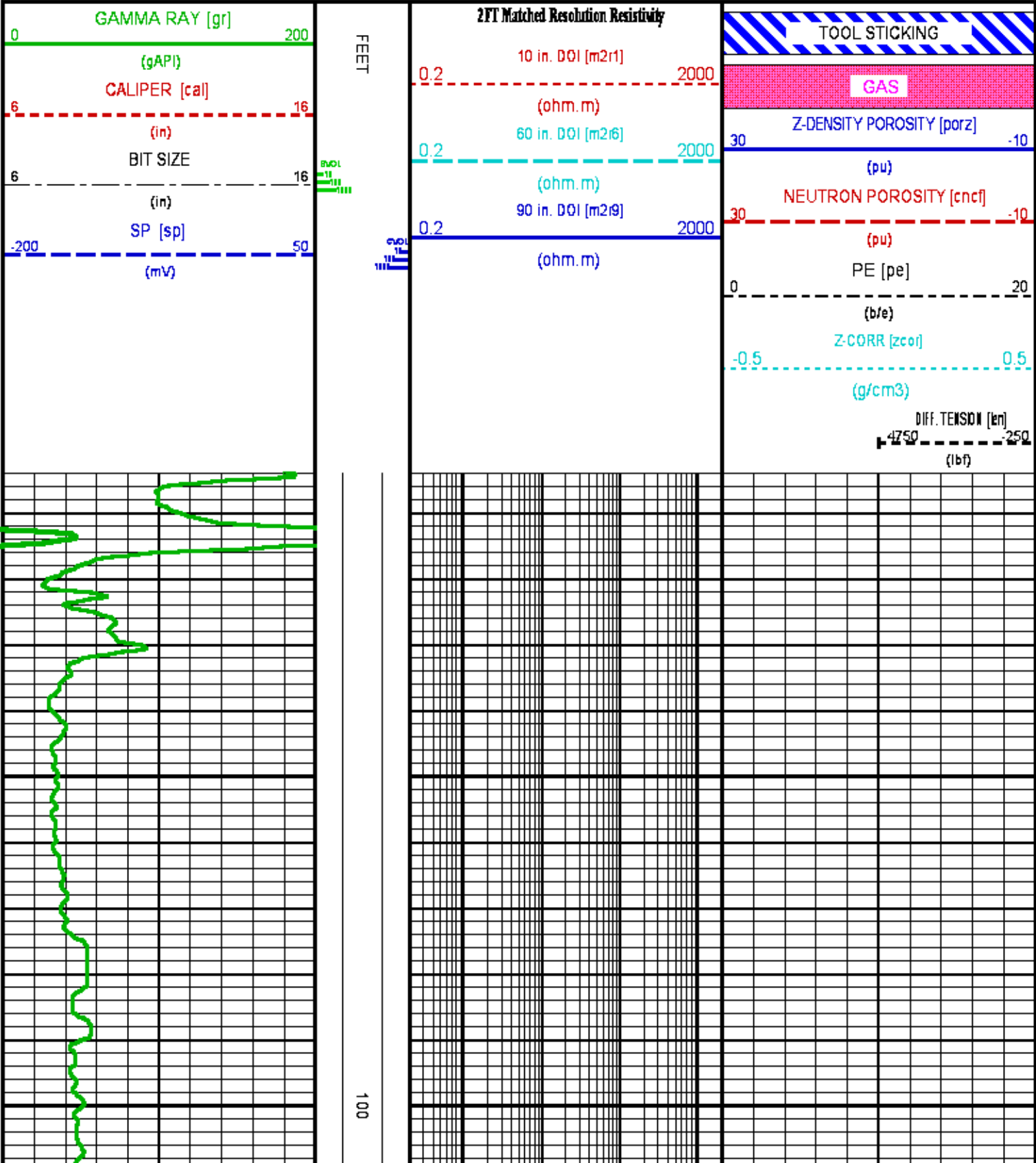
Company
: WPX ENERGY ROCKY MTN

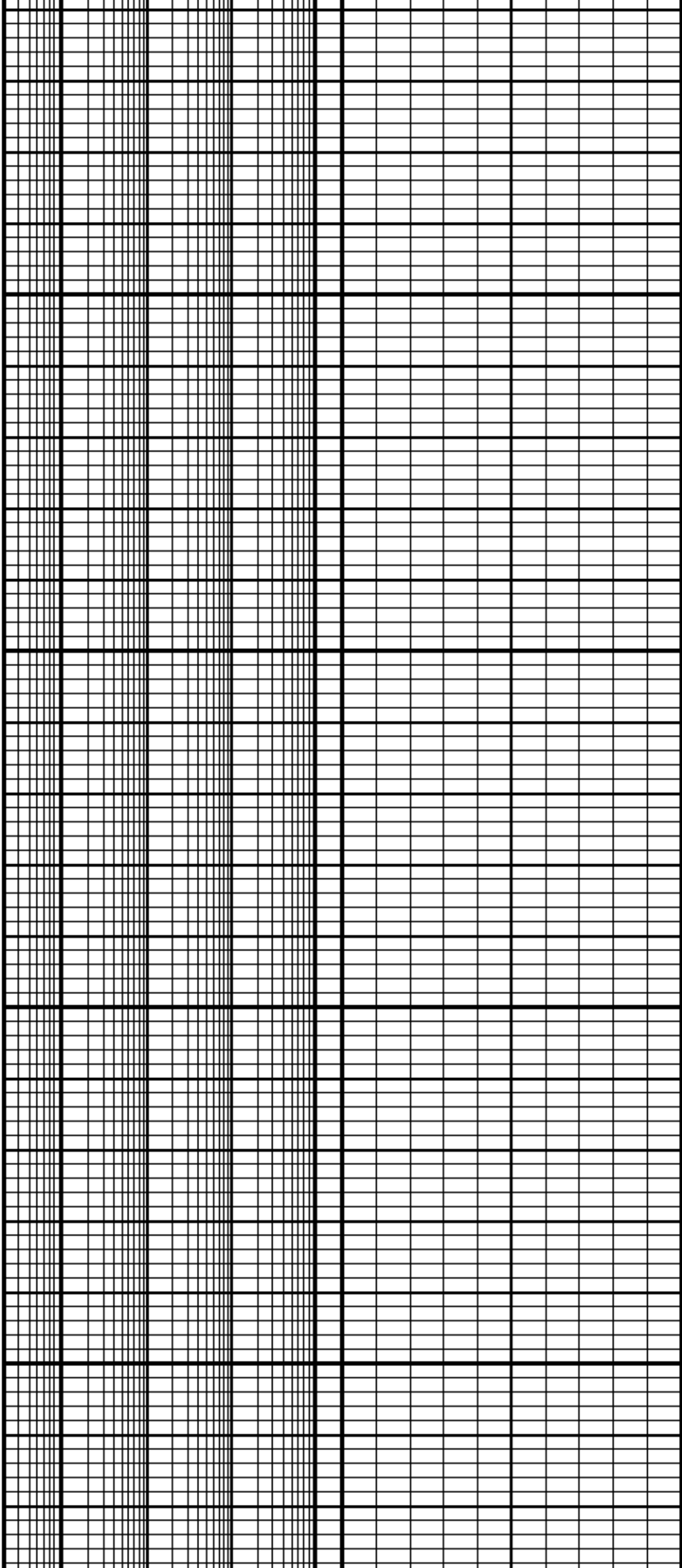
Well
: FEDERAL PA 313-12

Field
: PARACHUTE

File Interval
: 4 - 8271.25 Feet

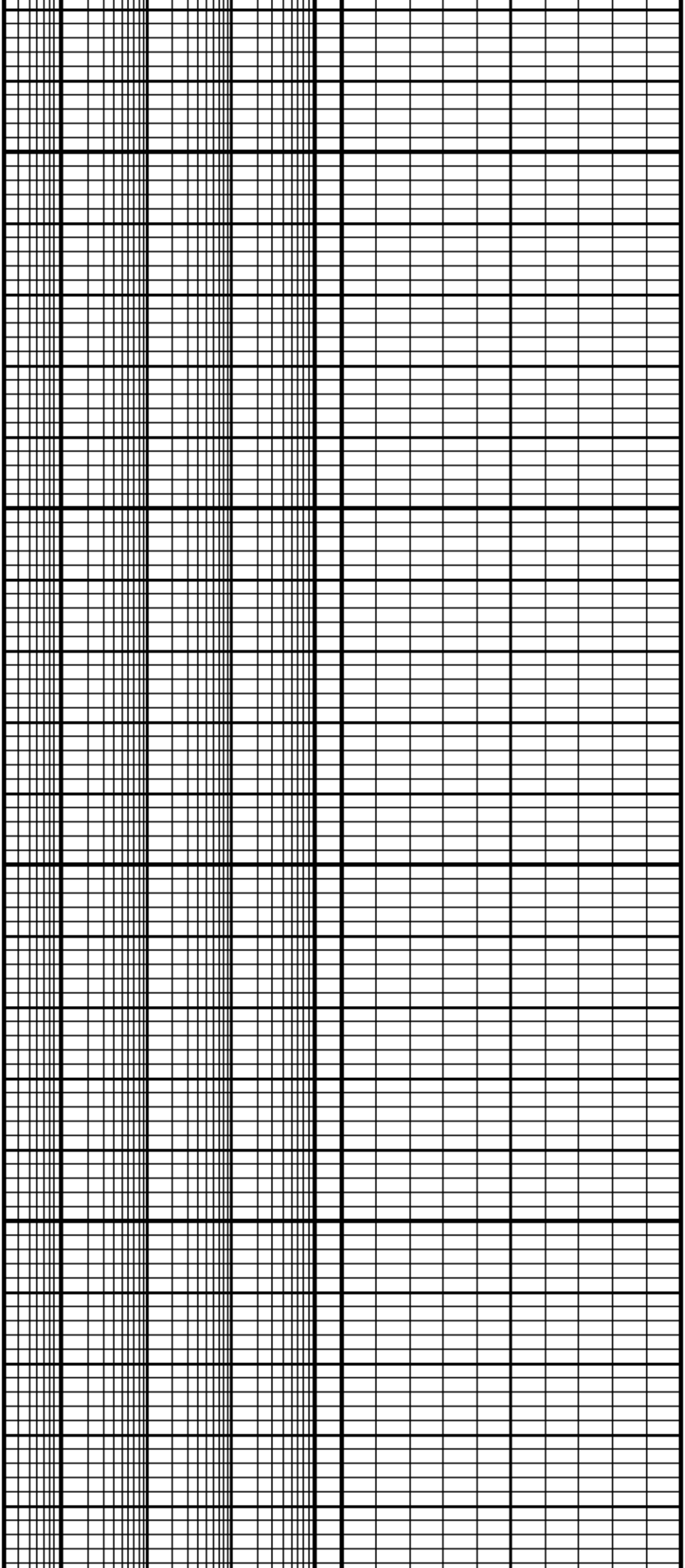
OCT
: n970a





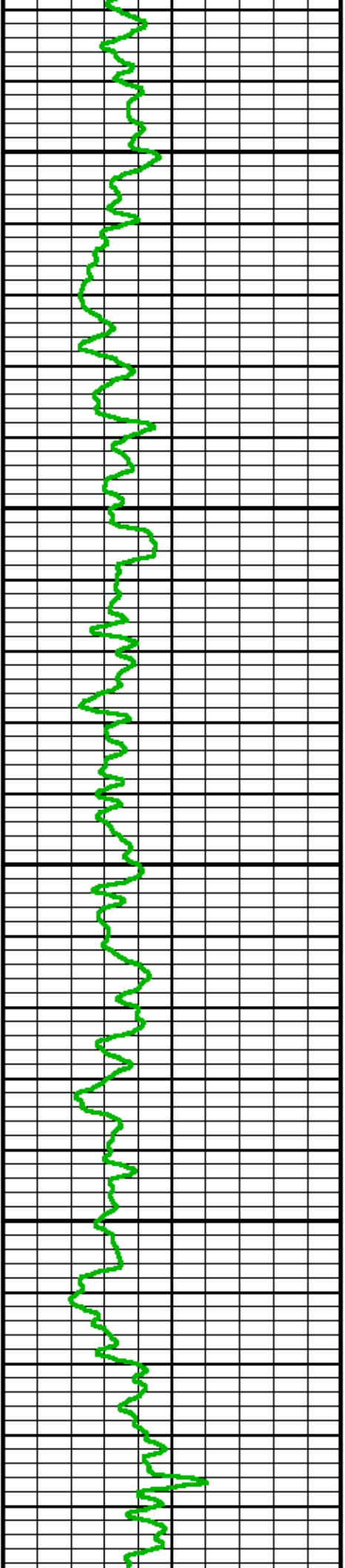
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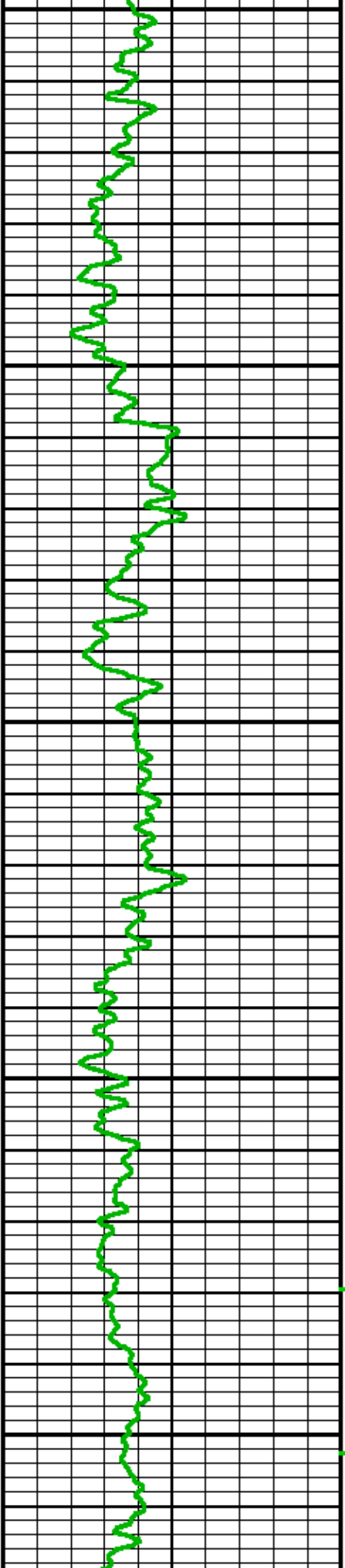
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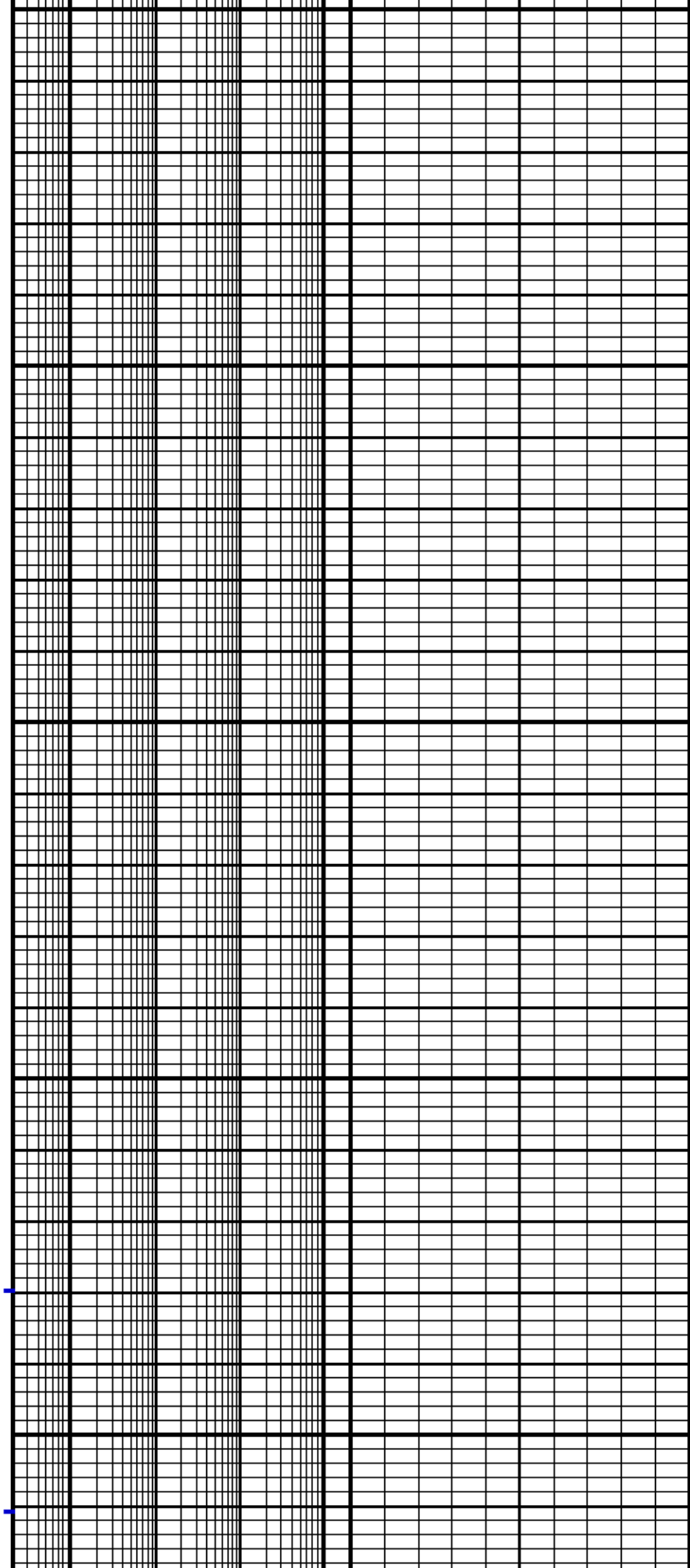
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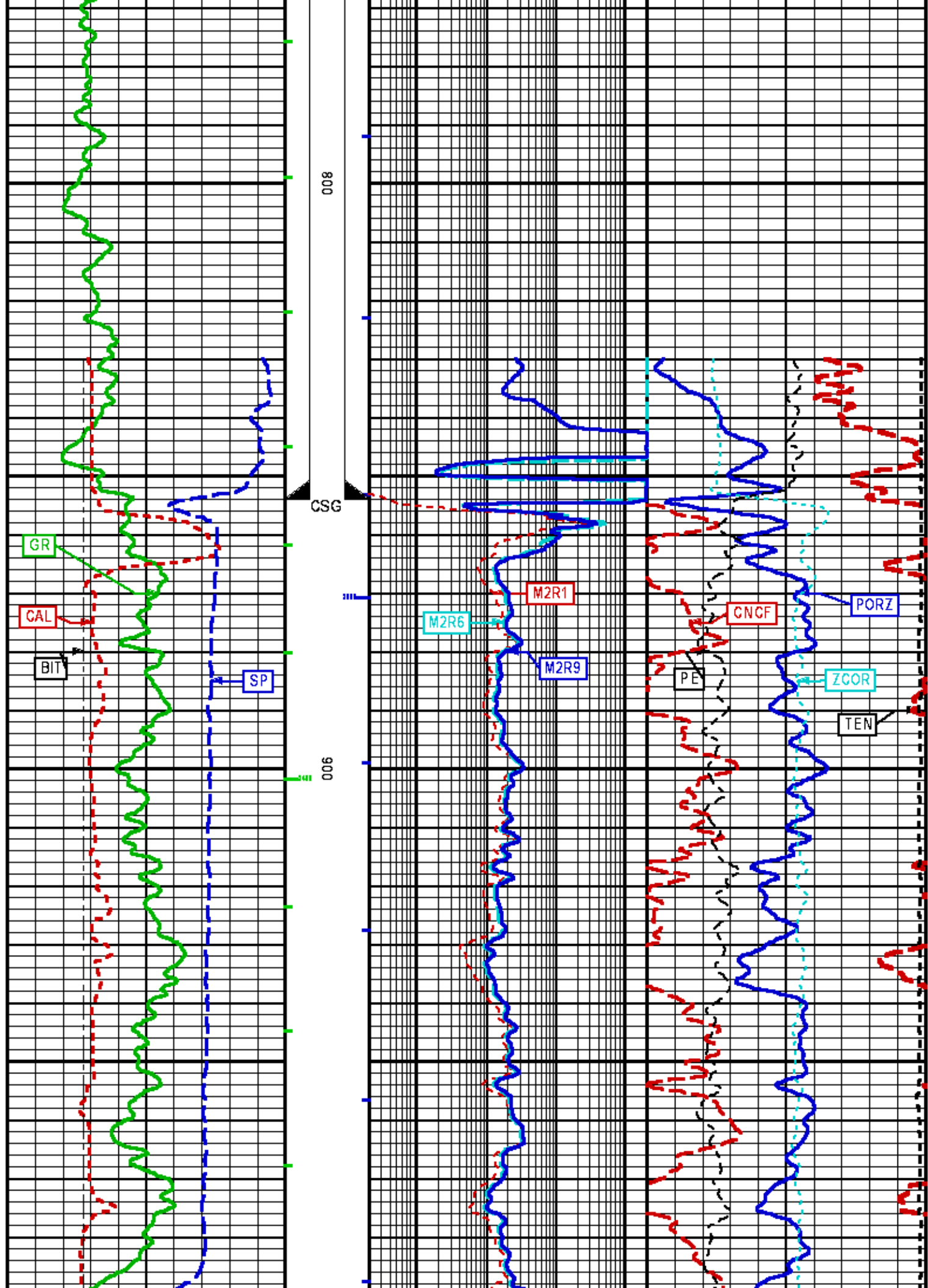


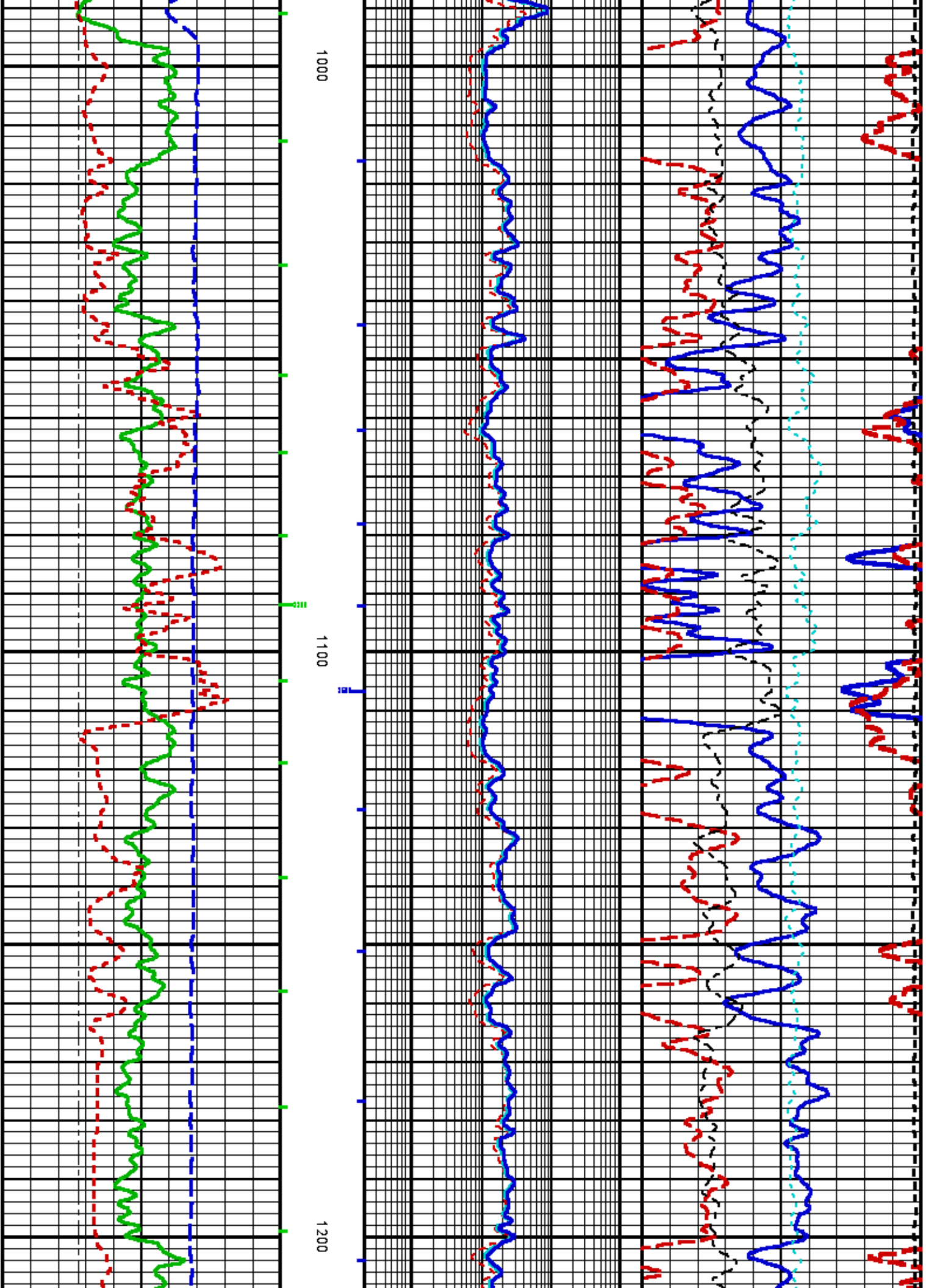


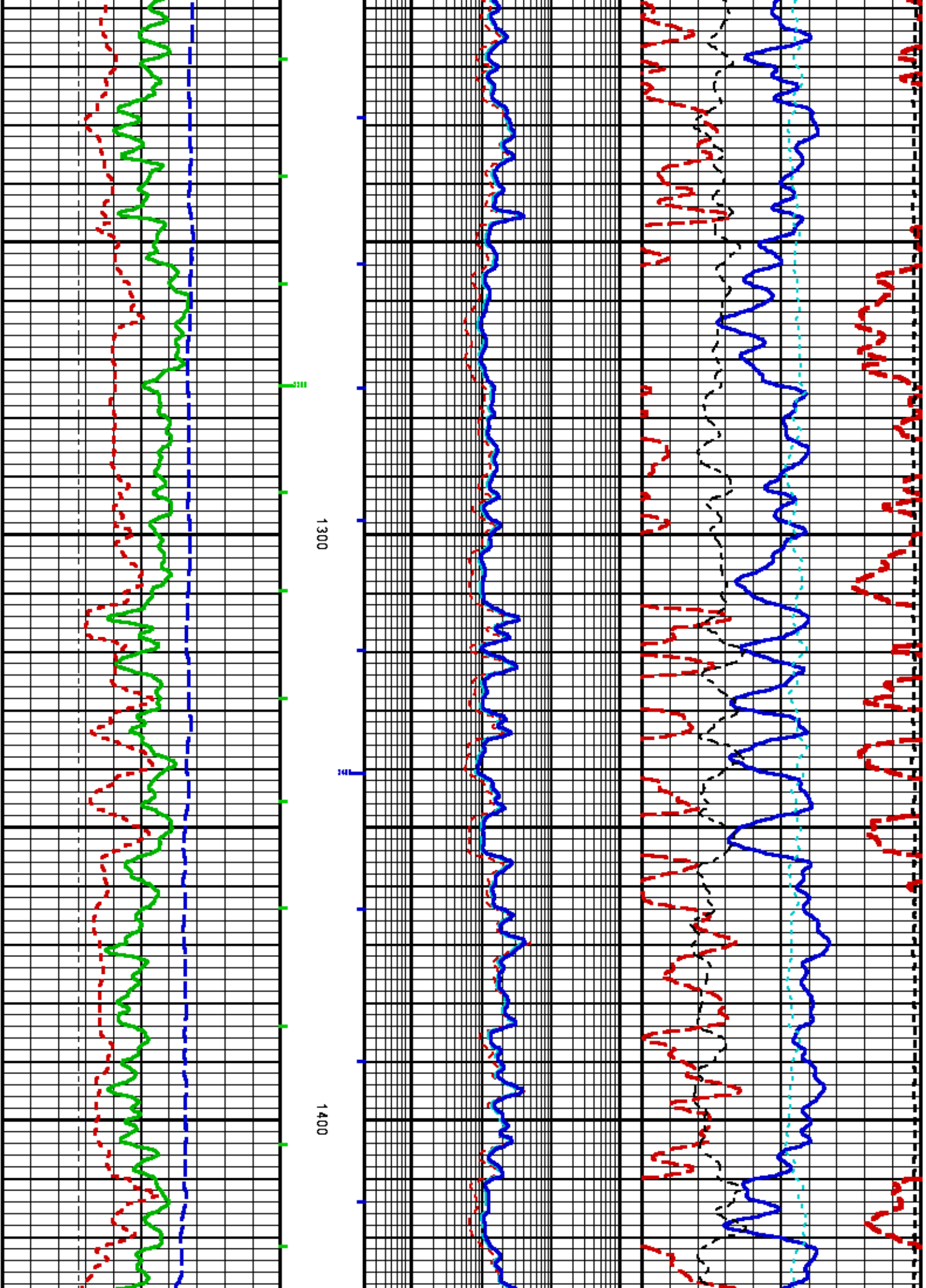
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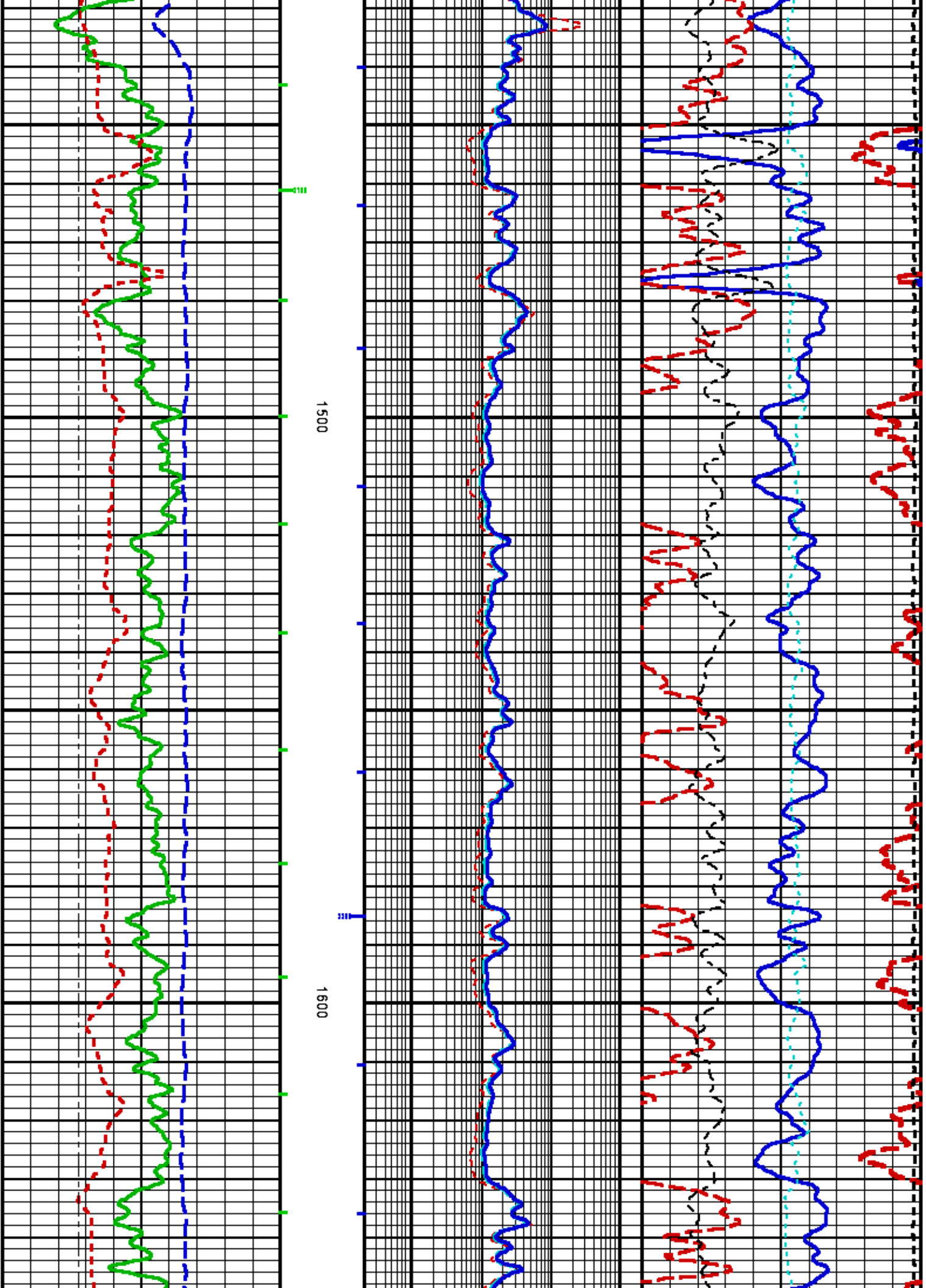
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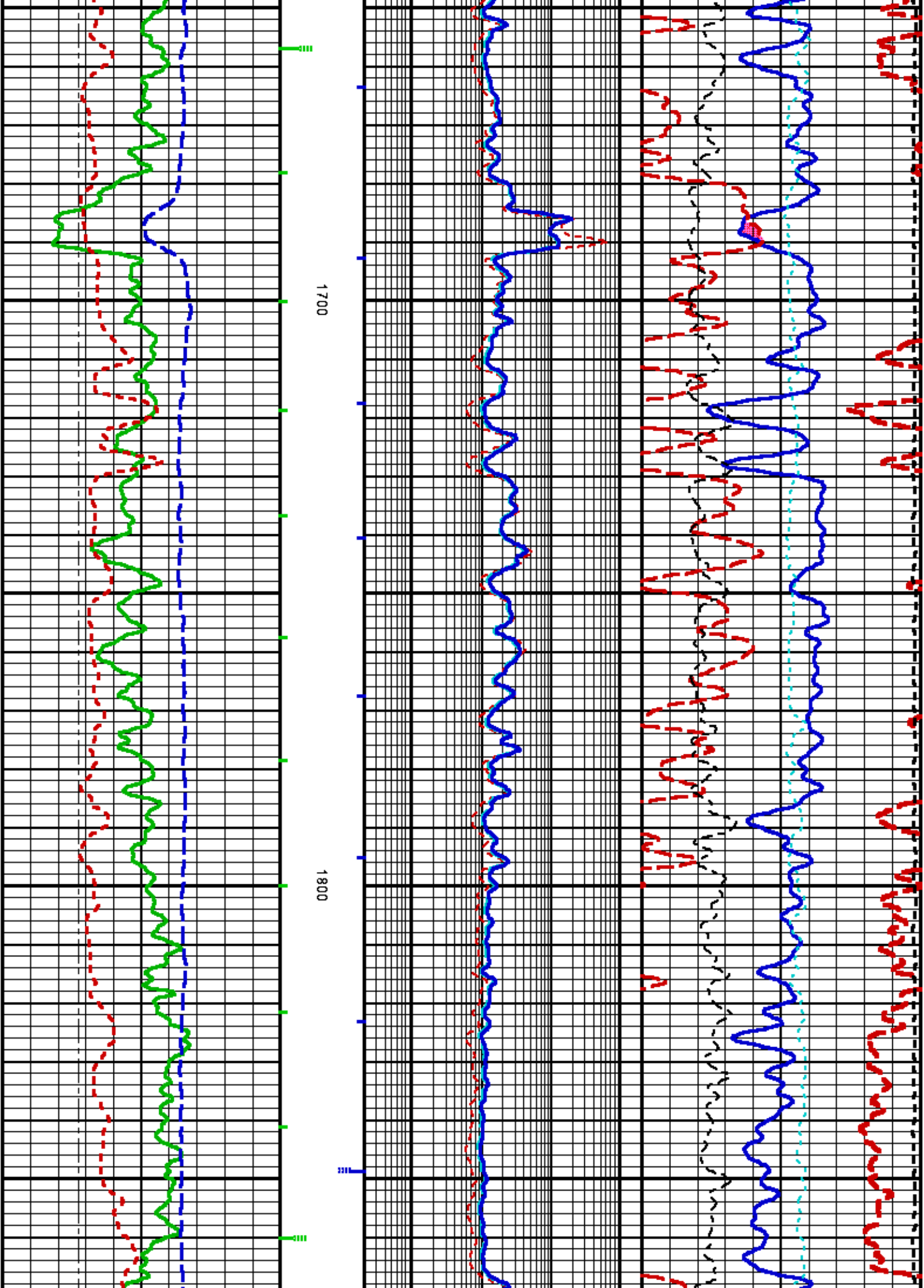


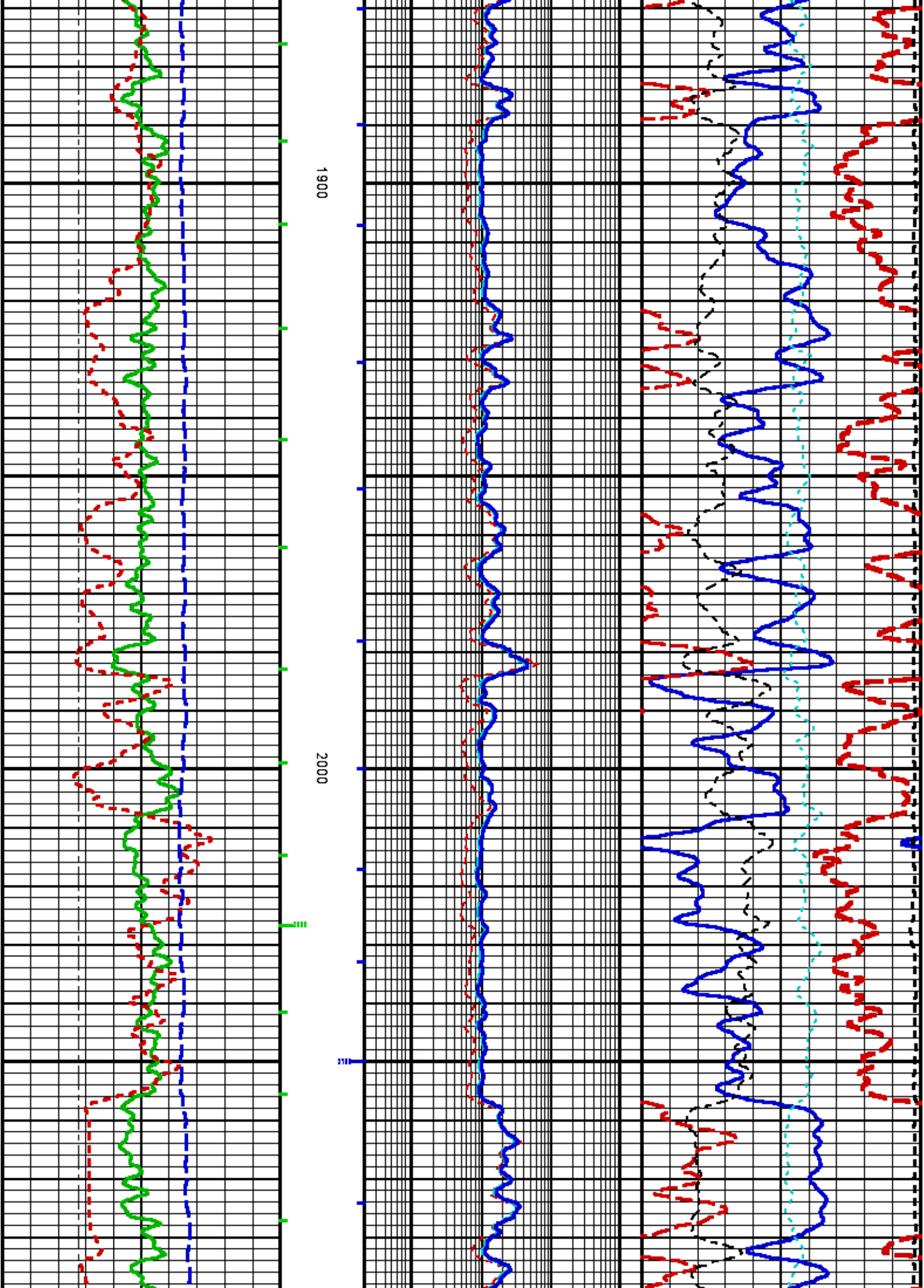


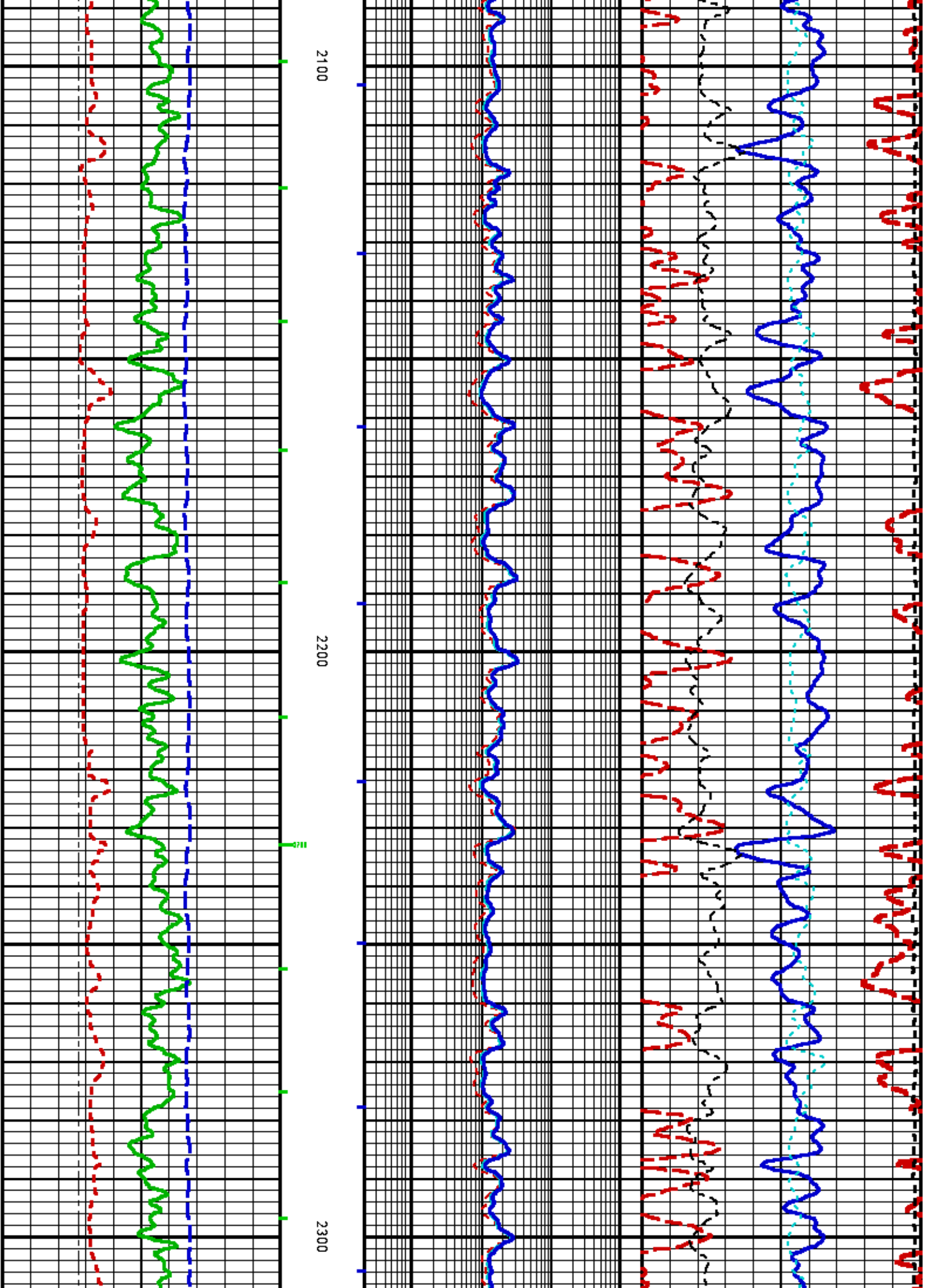


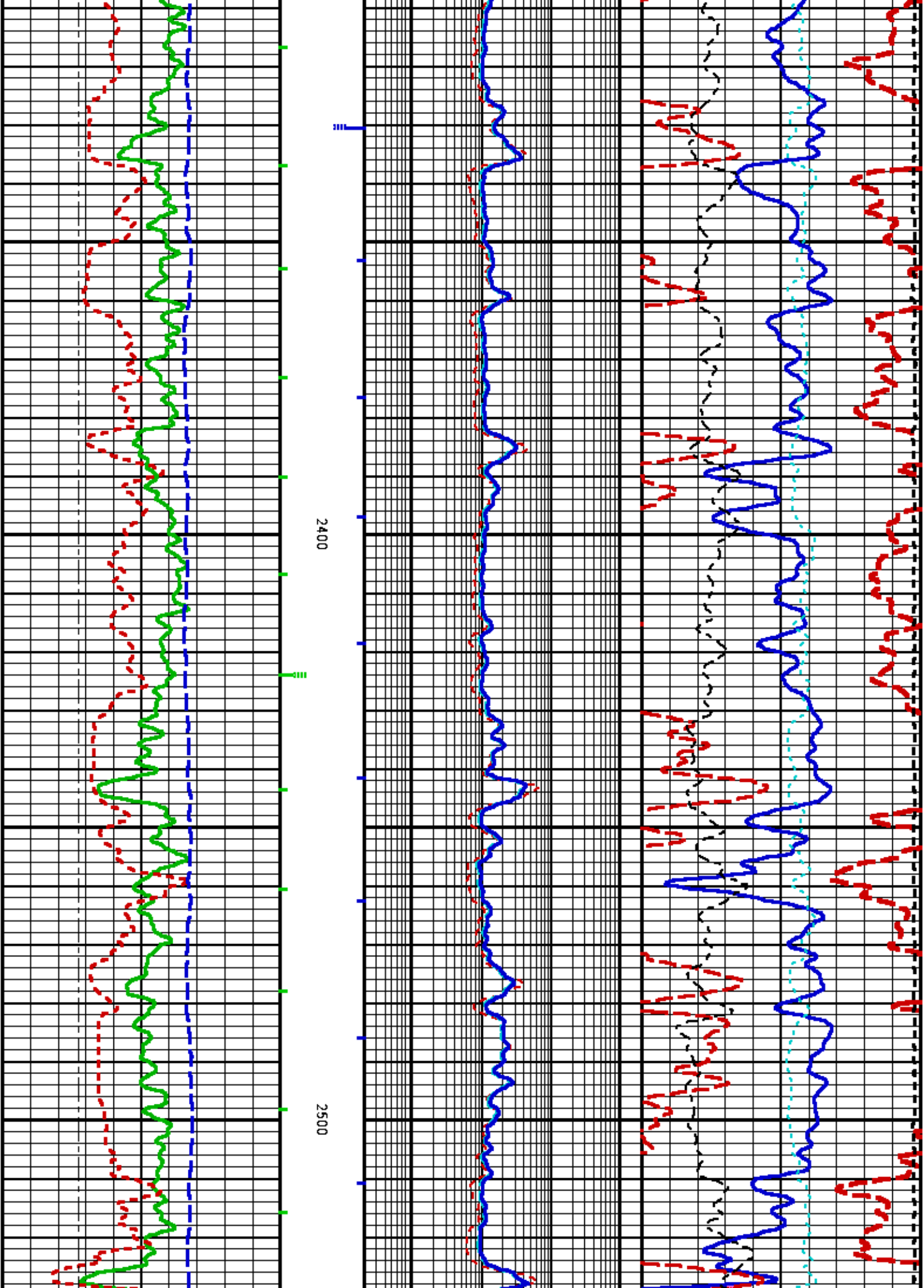


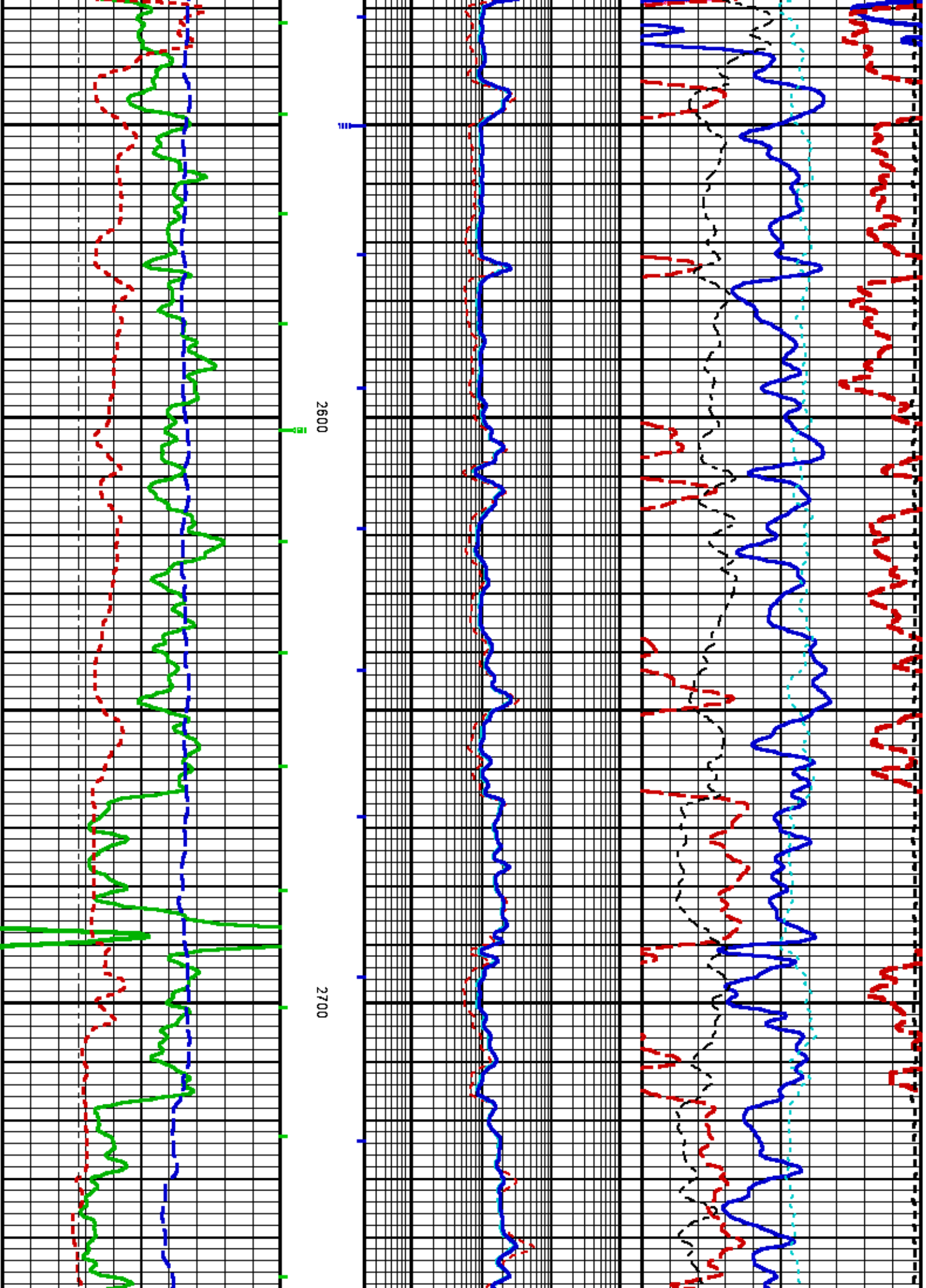


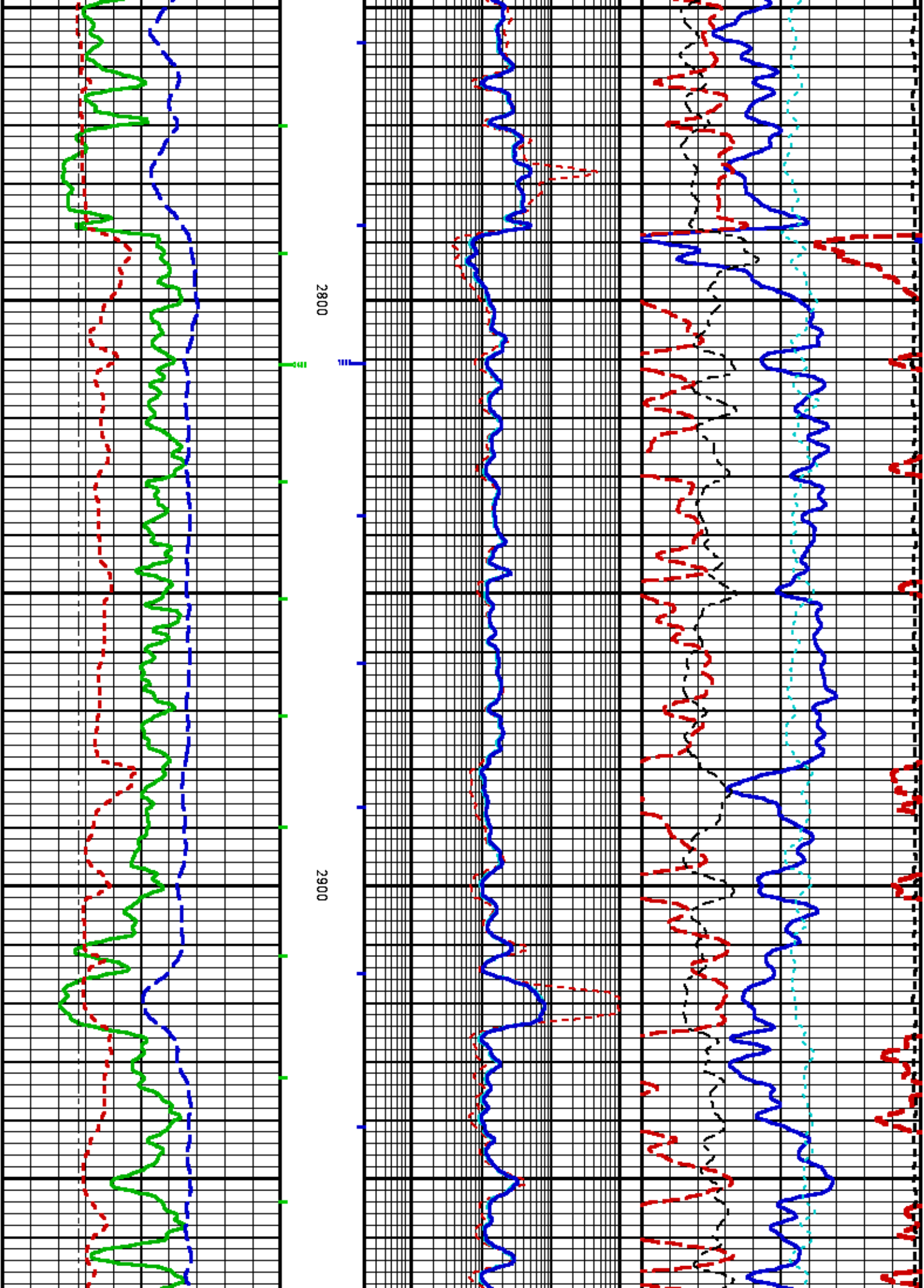


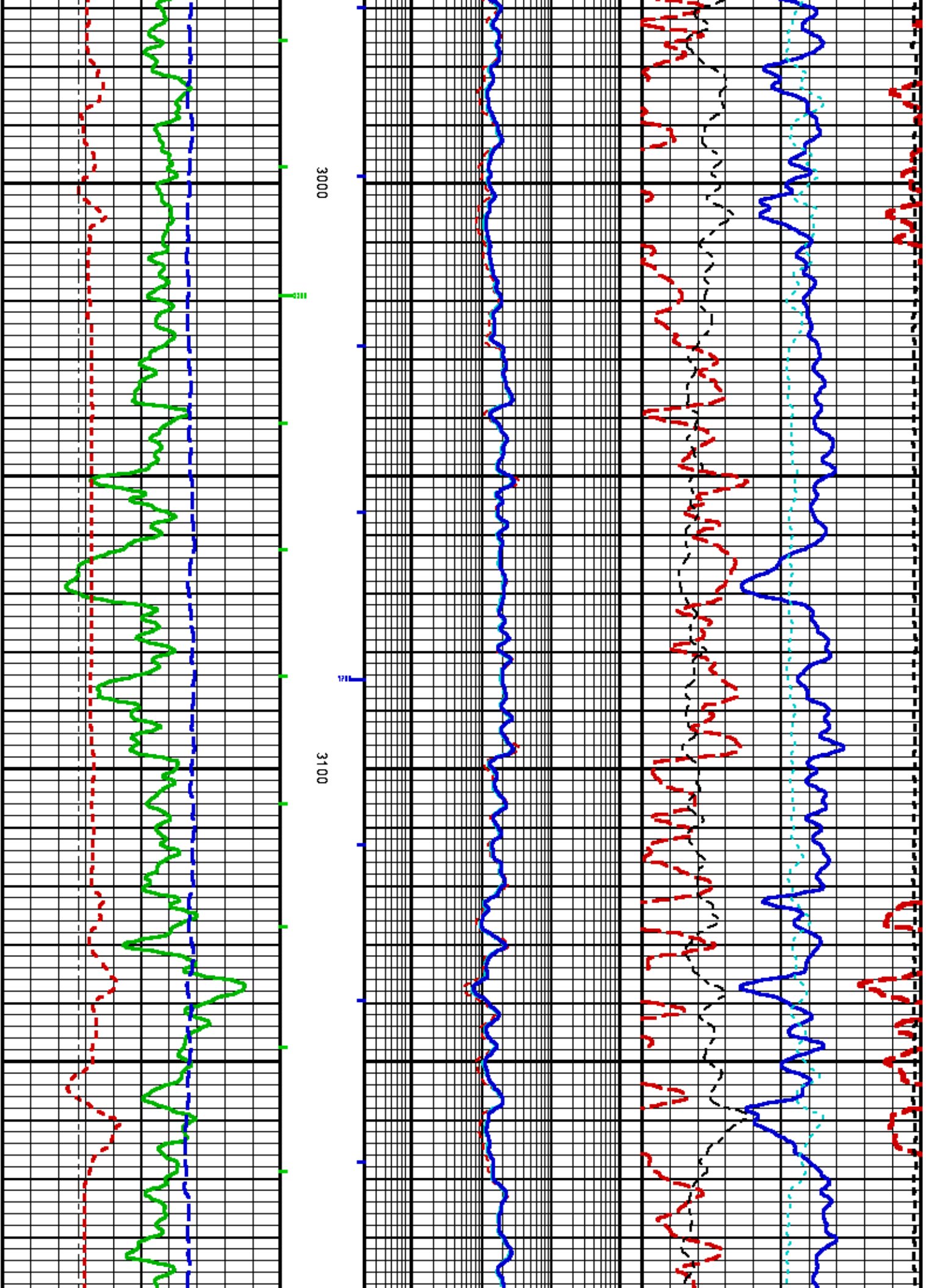


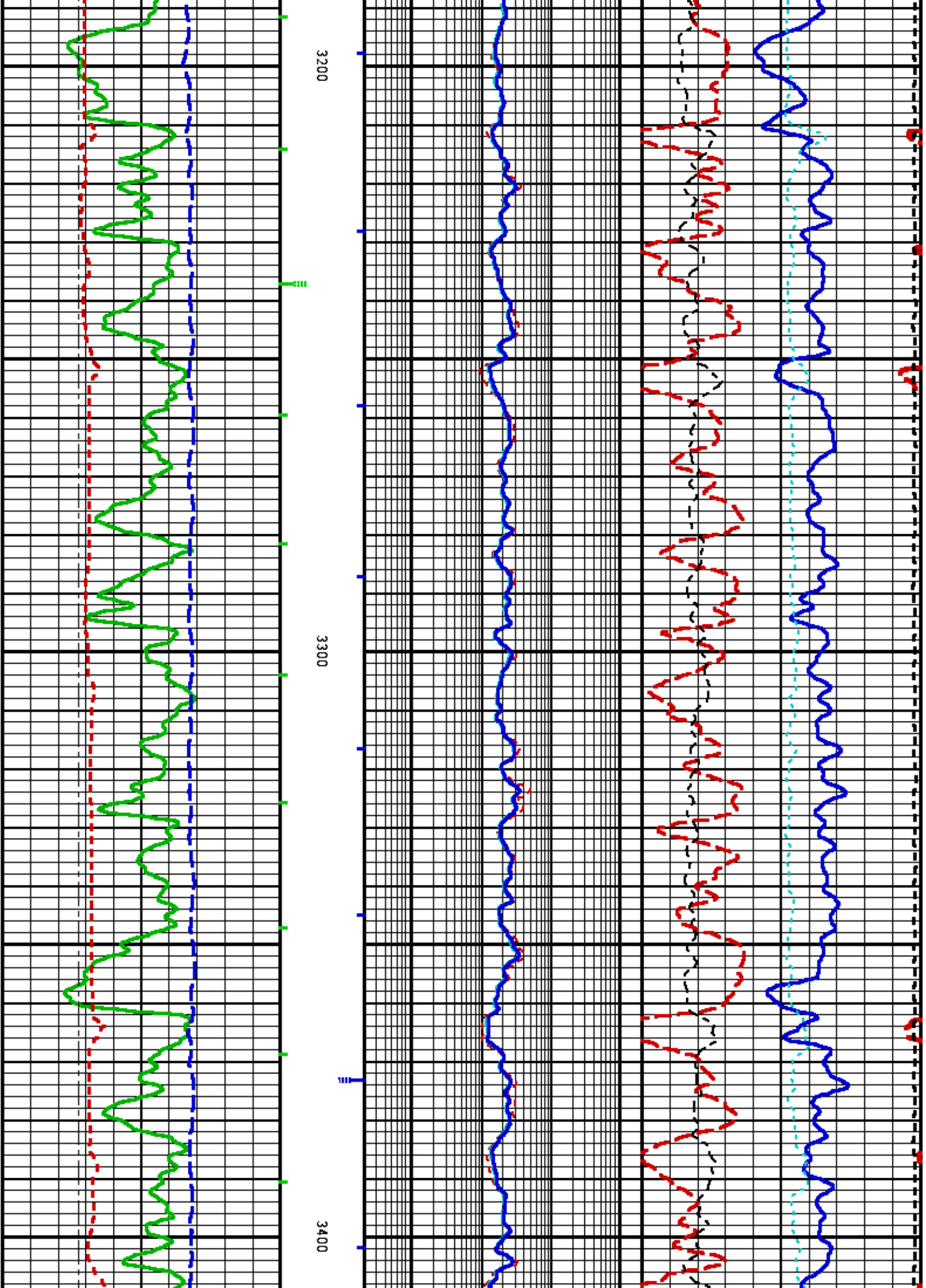


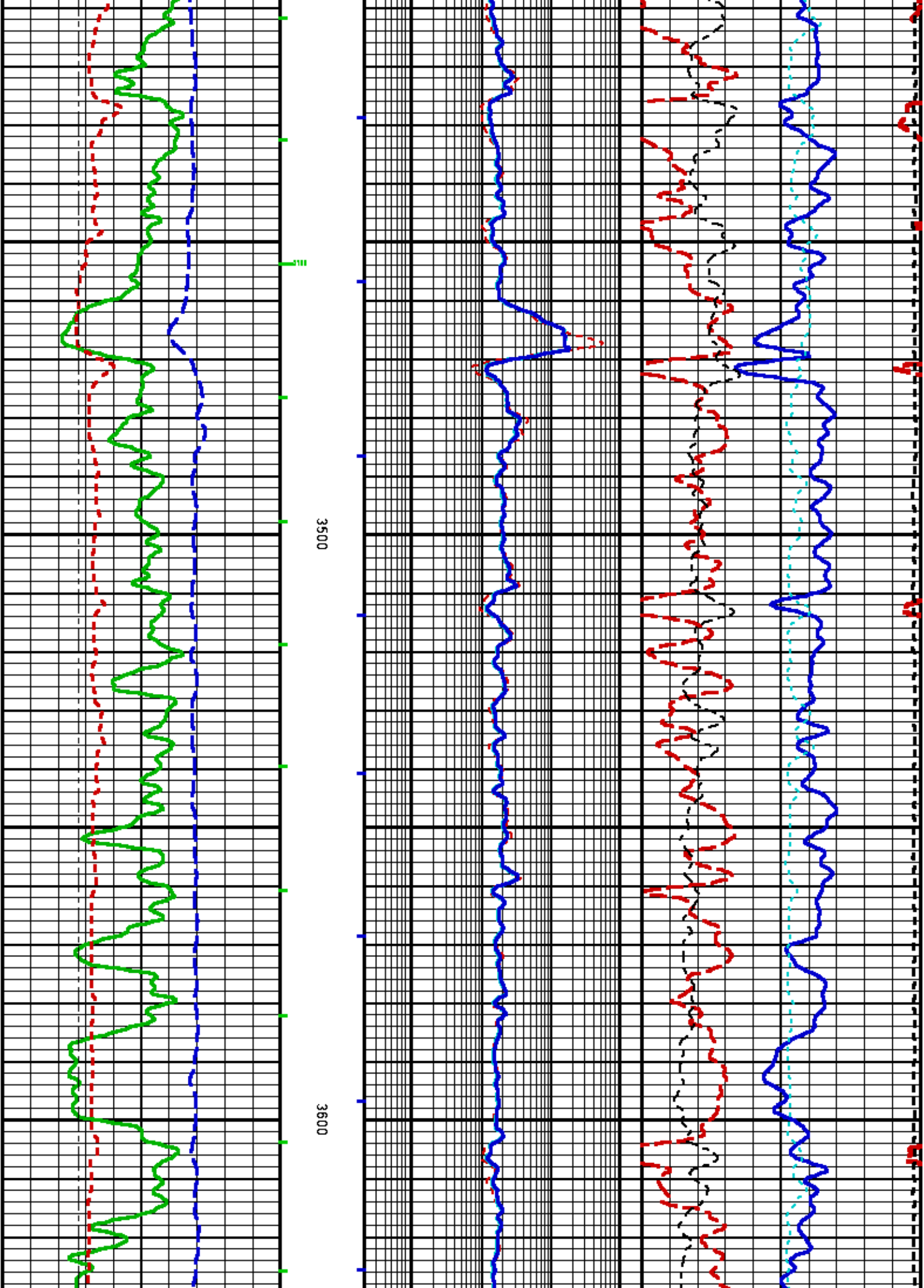


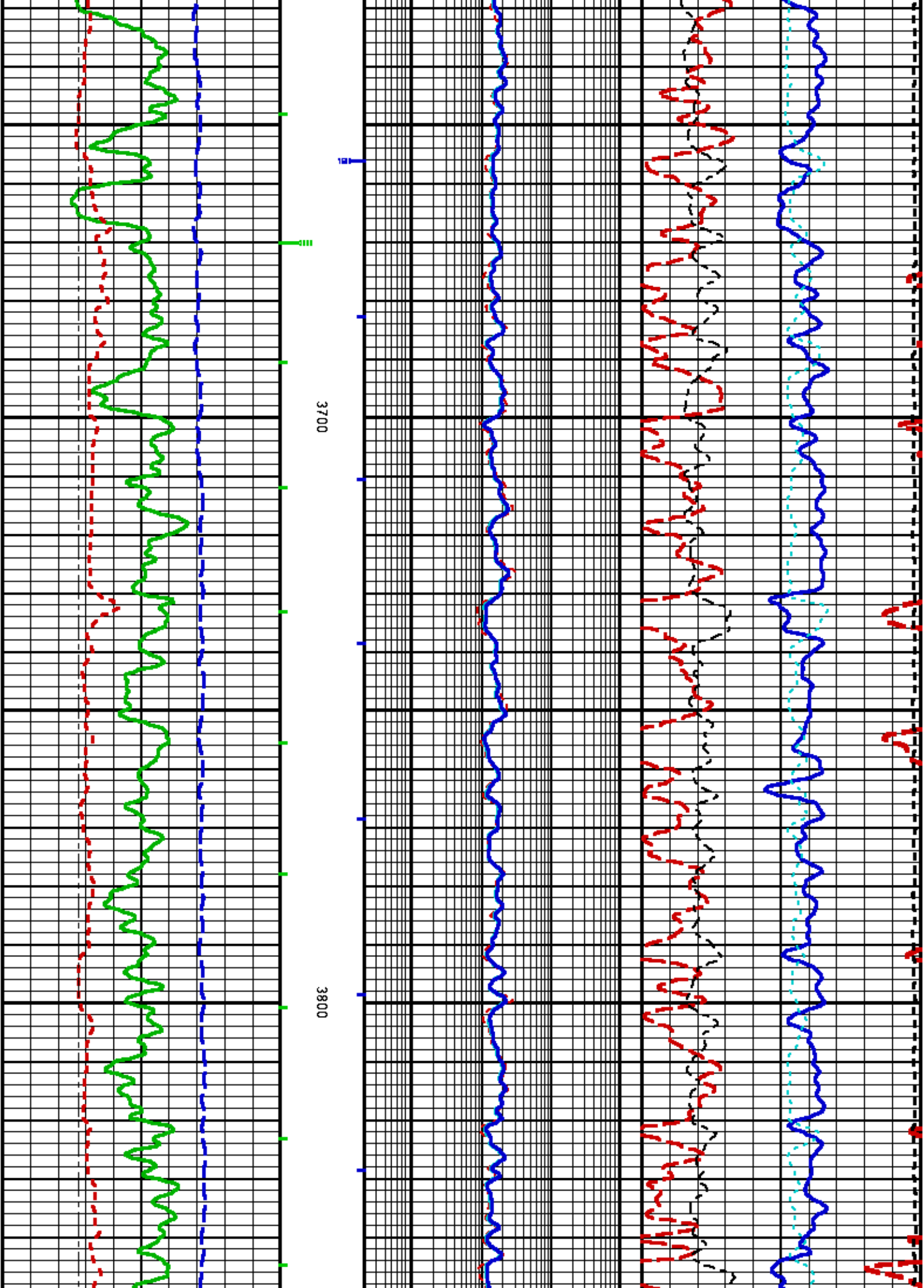


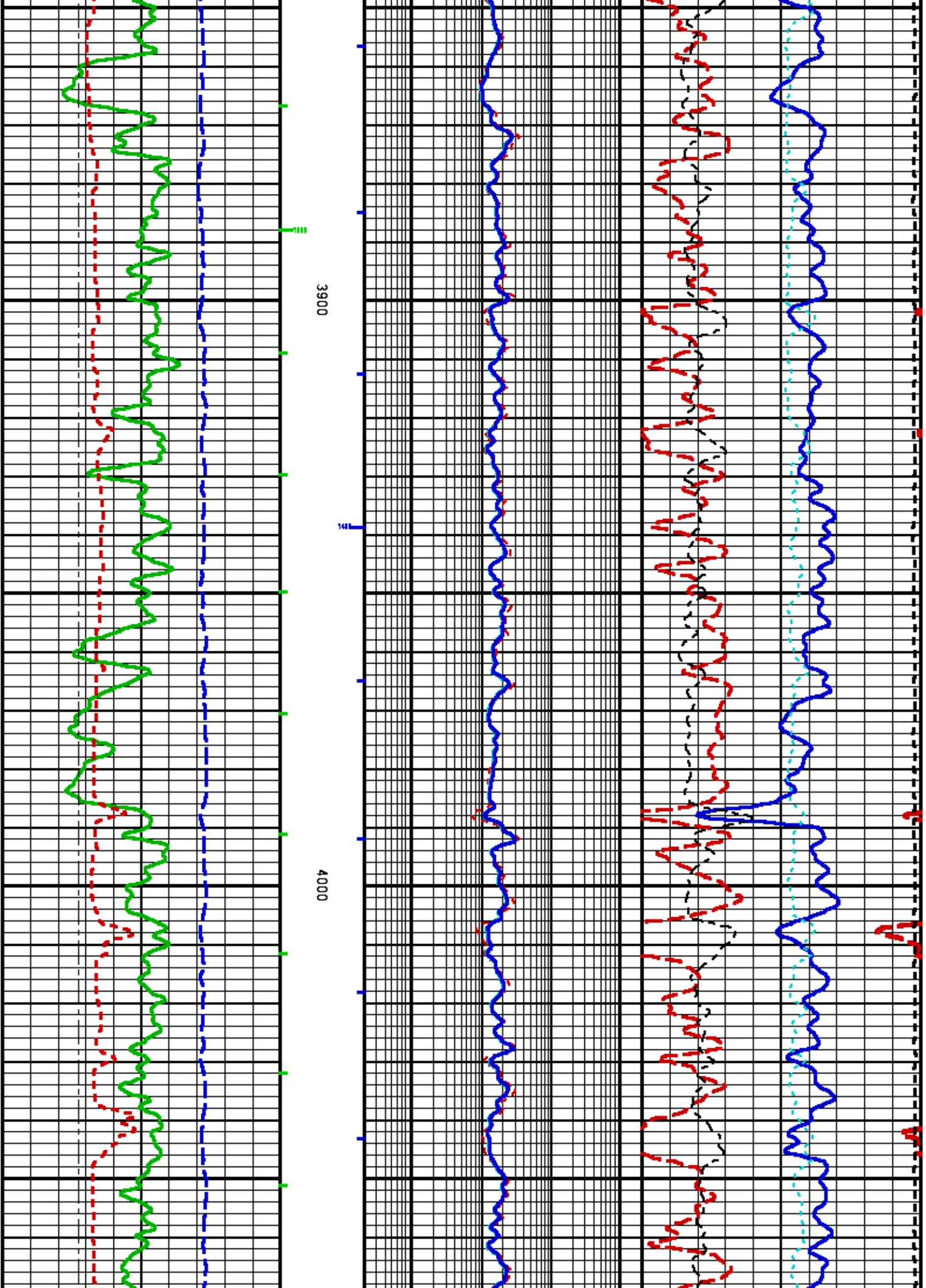


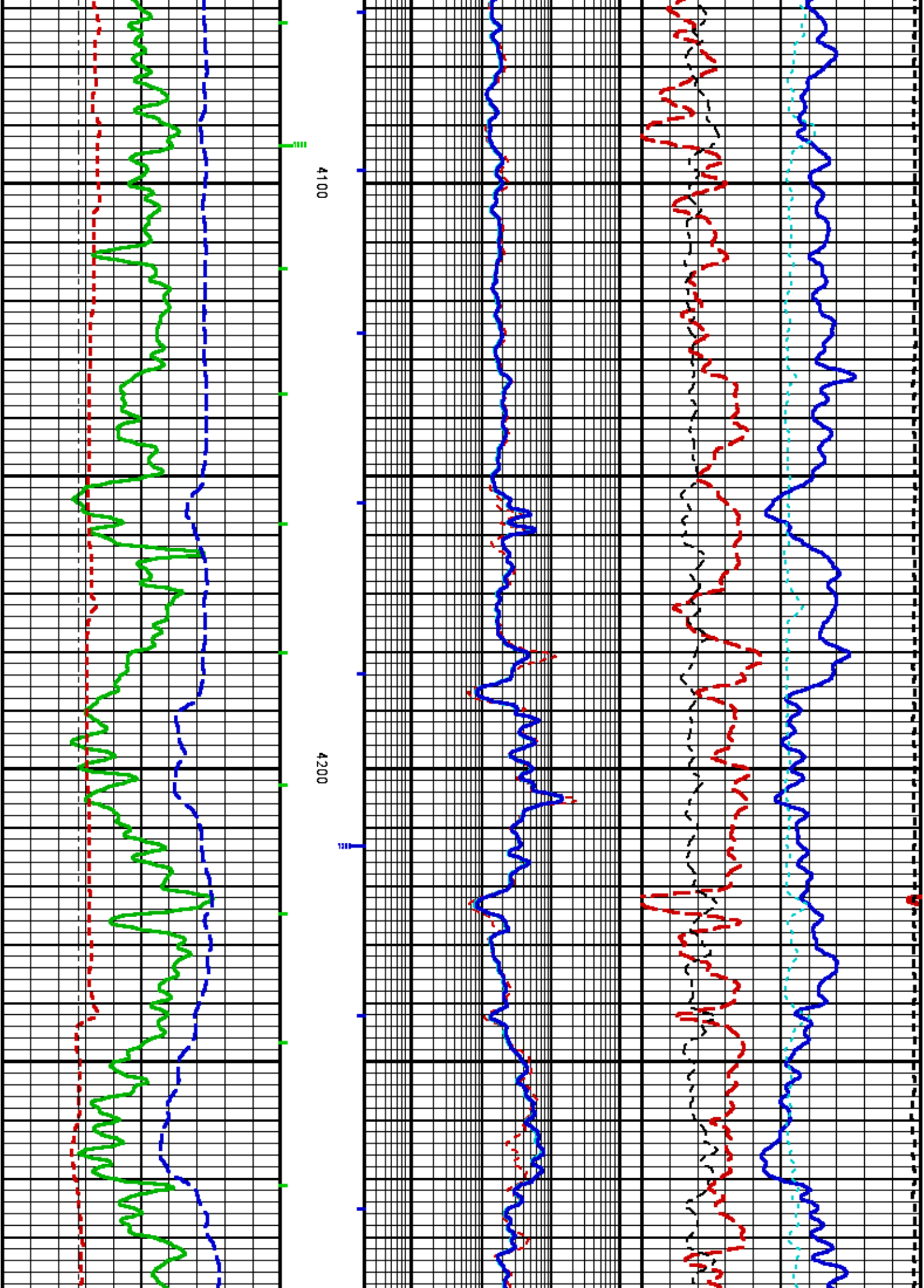


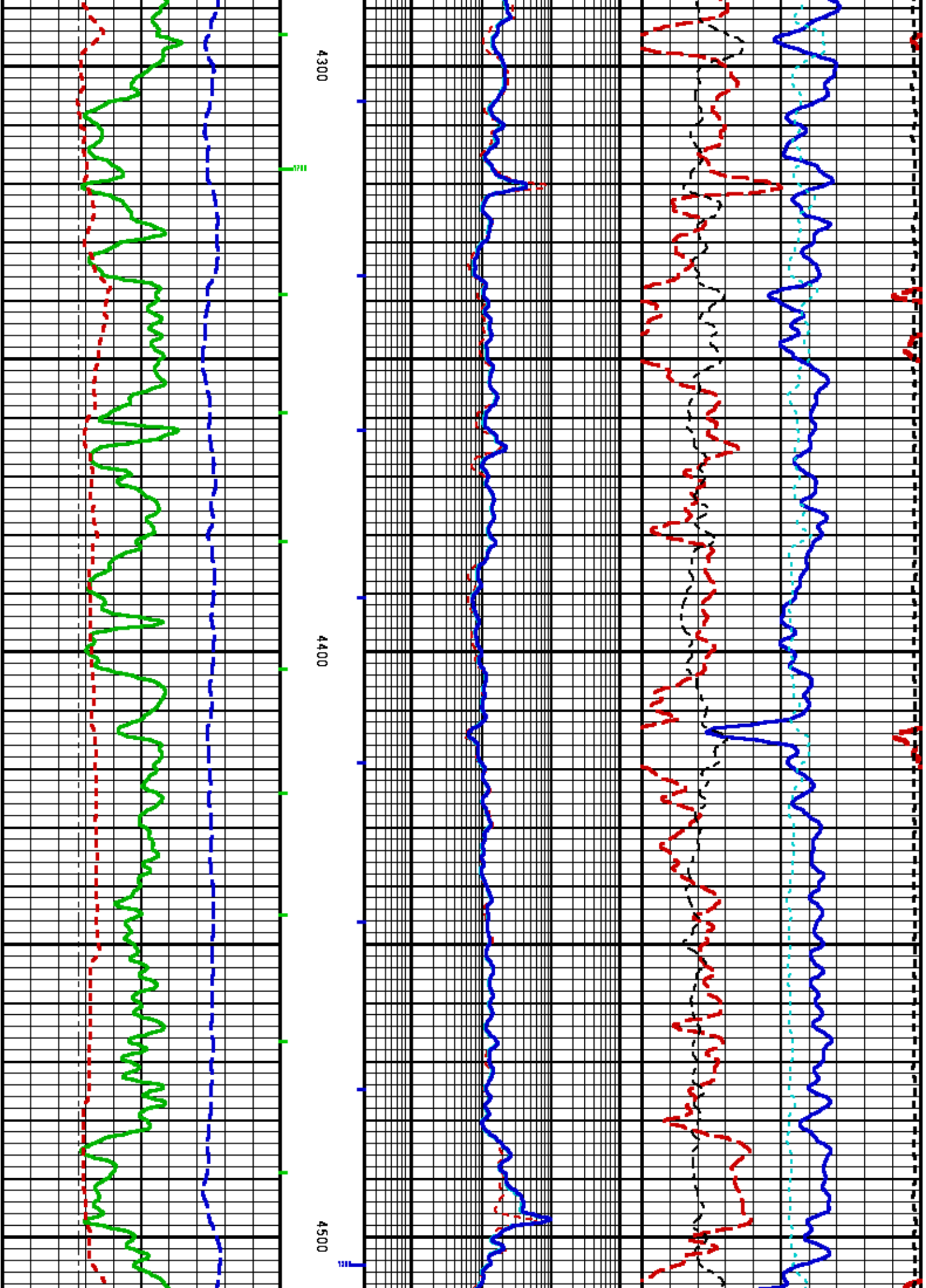


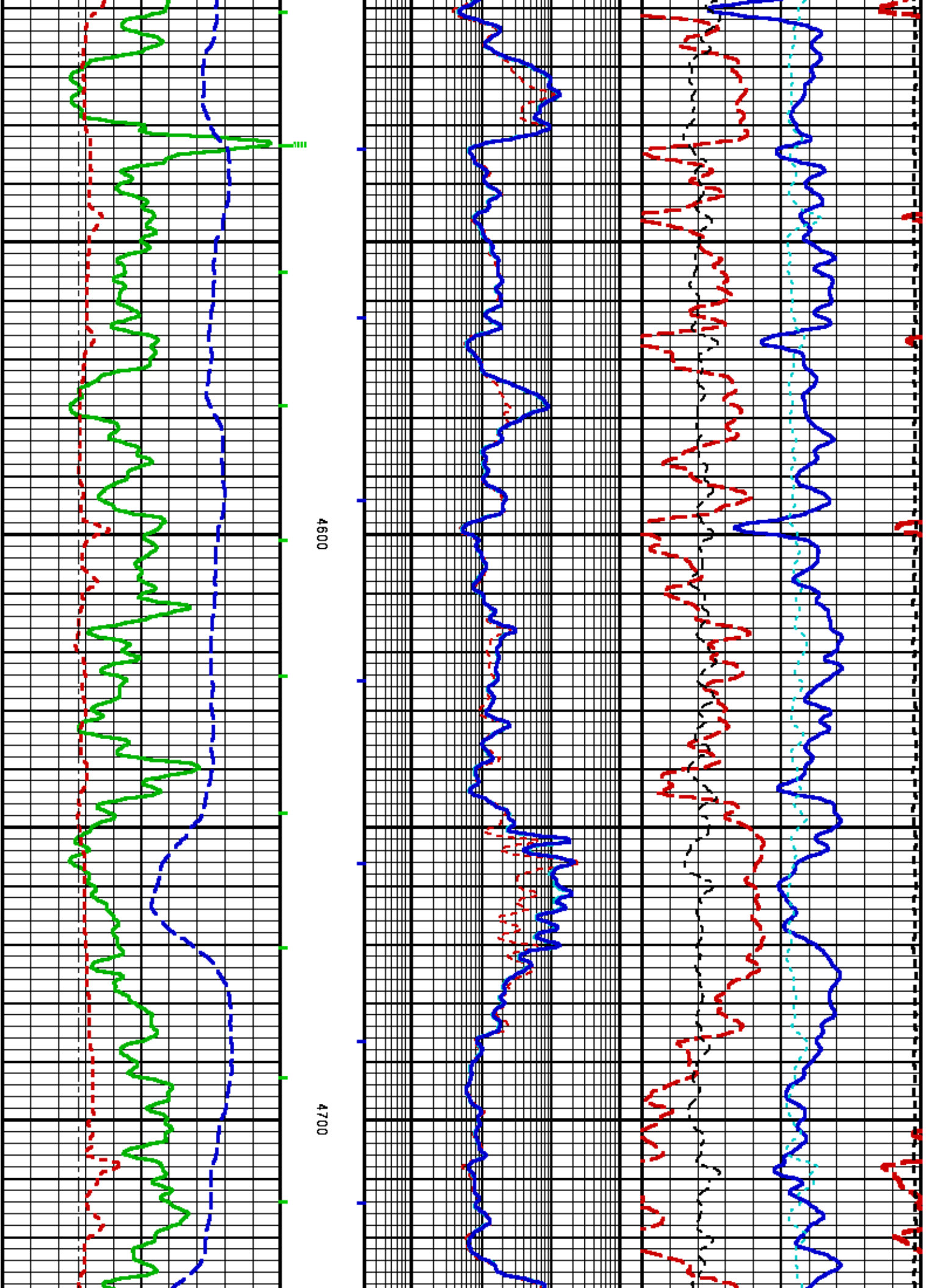


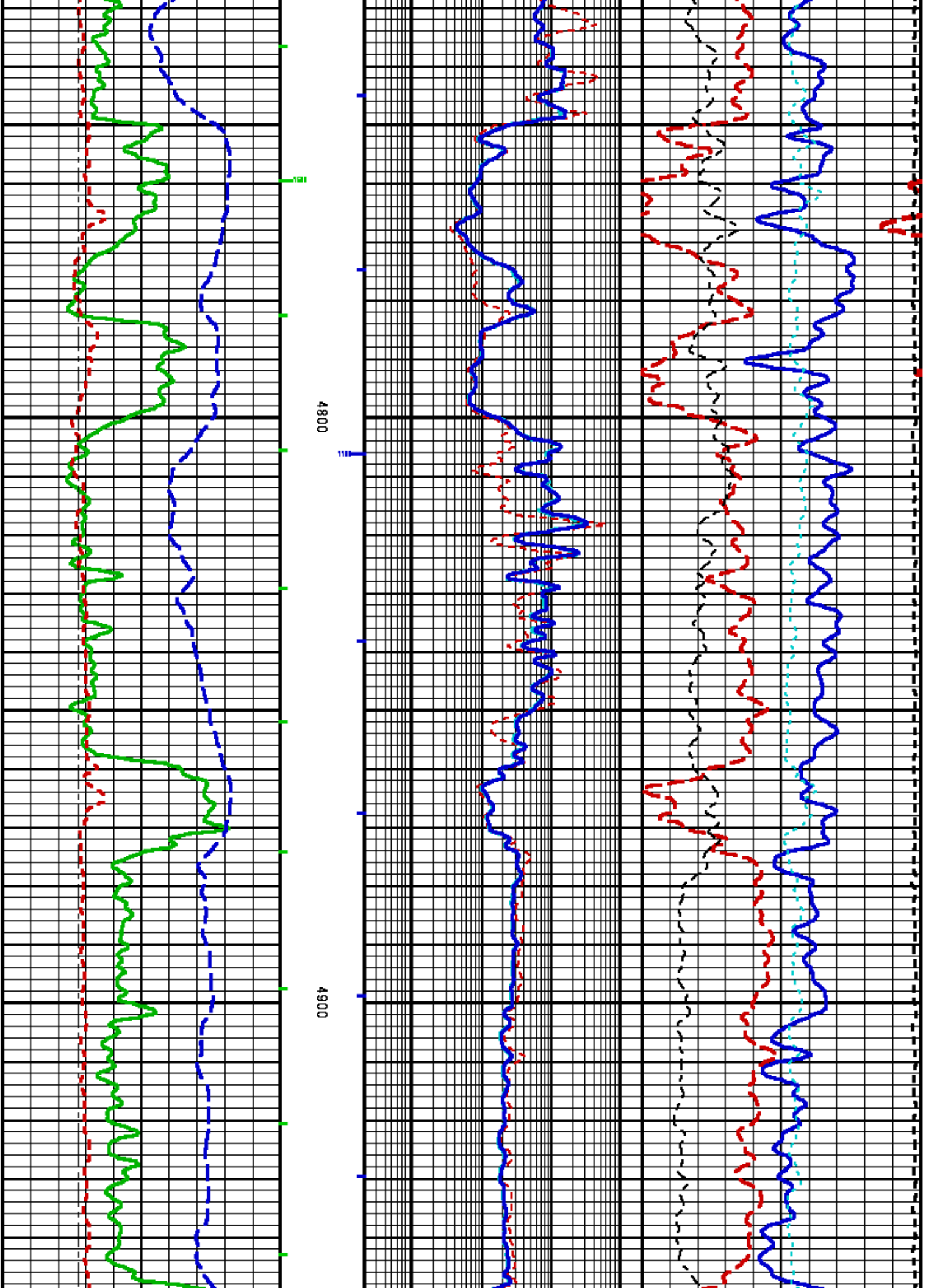


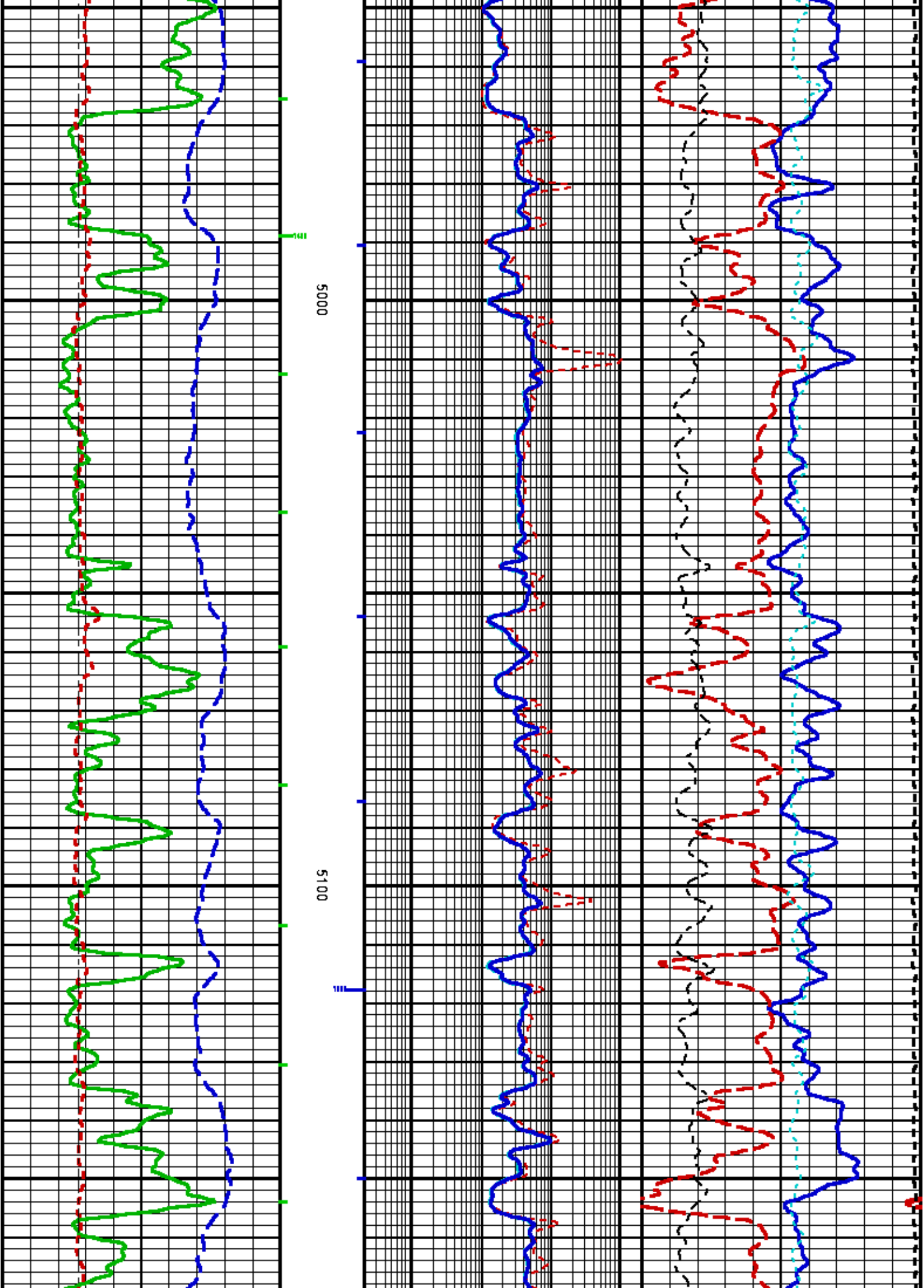


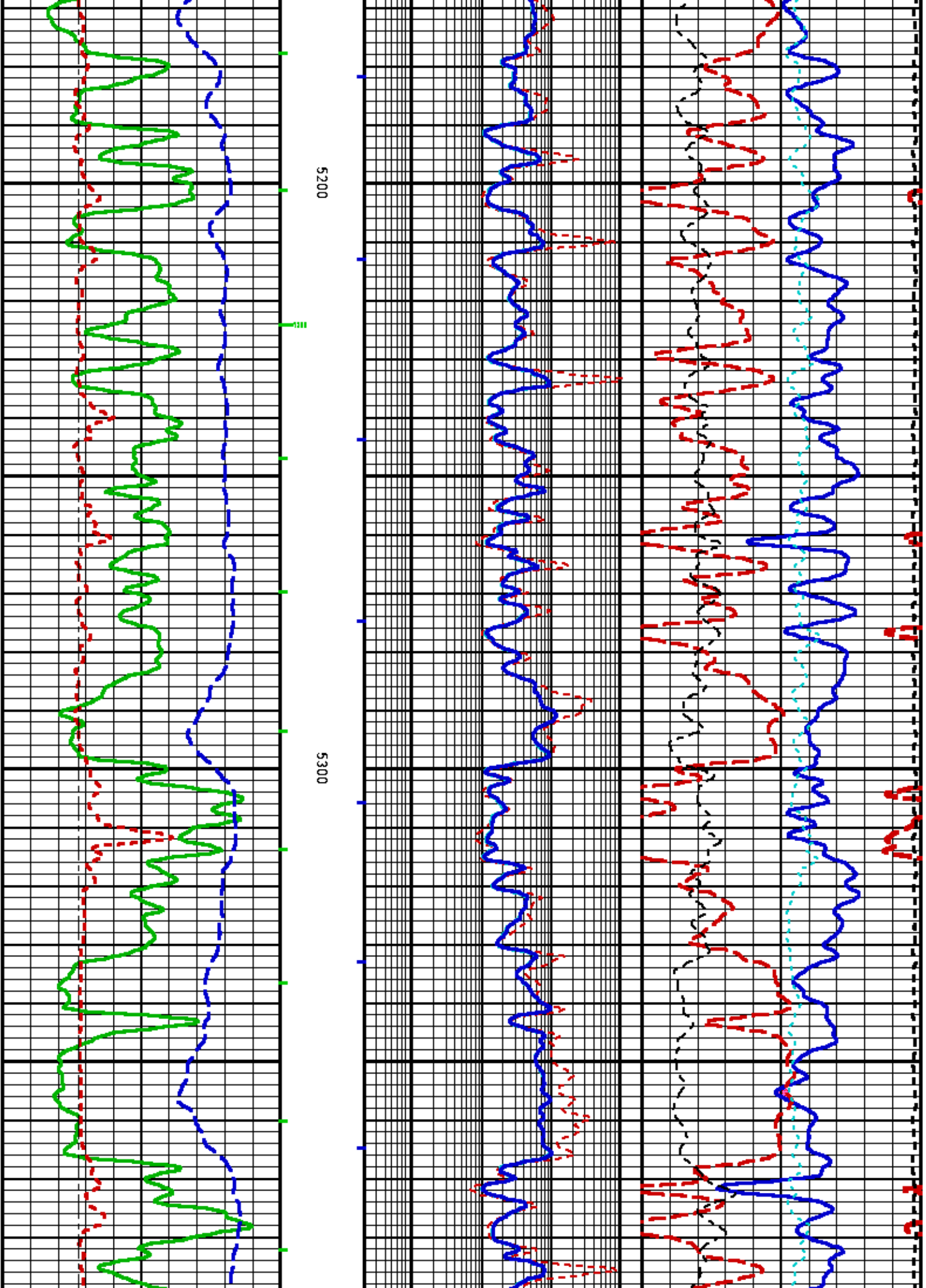


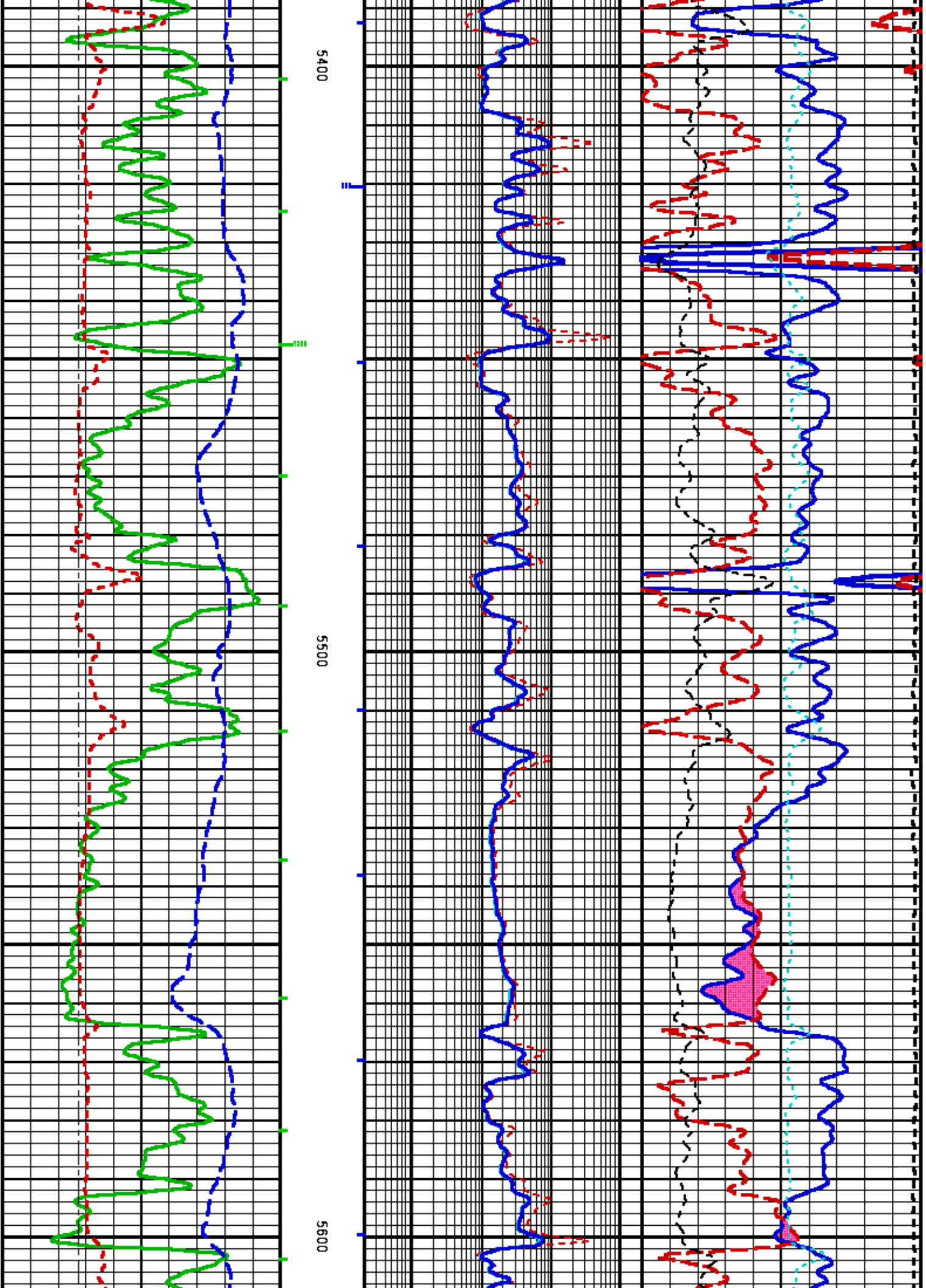


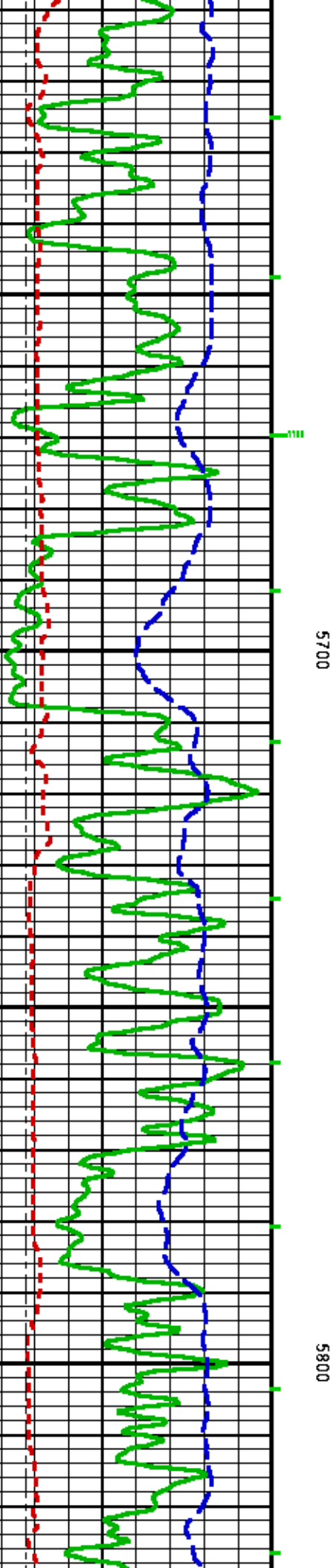
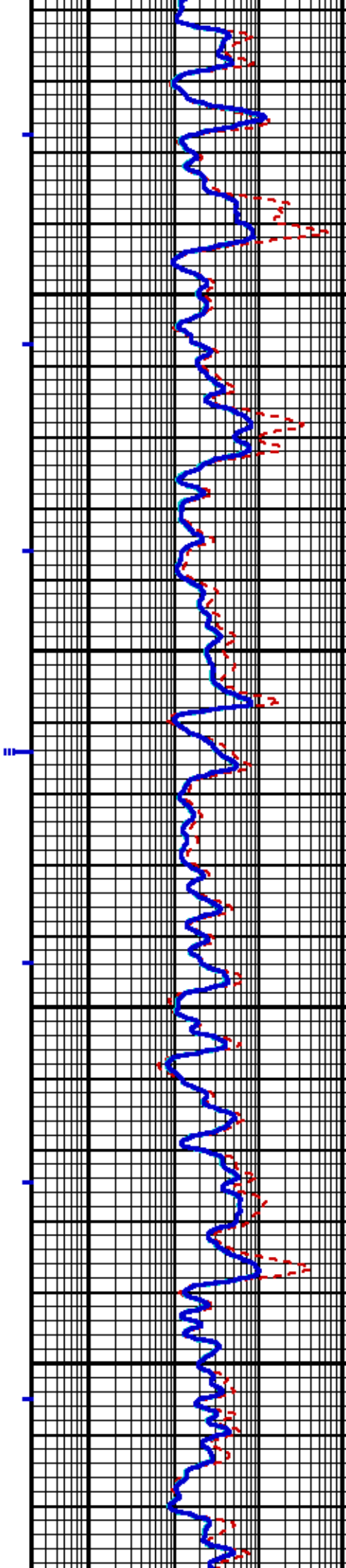
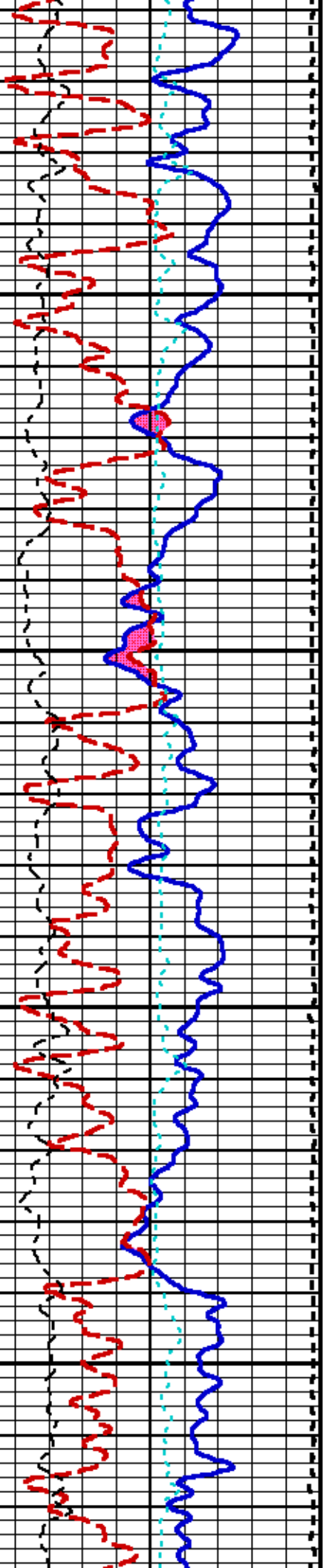


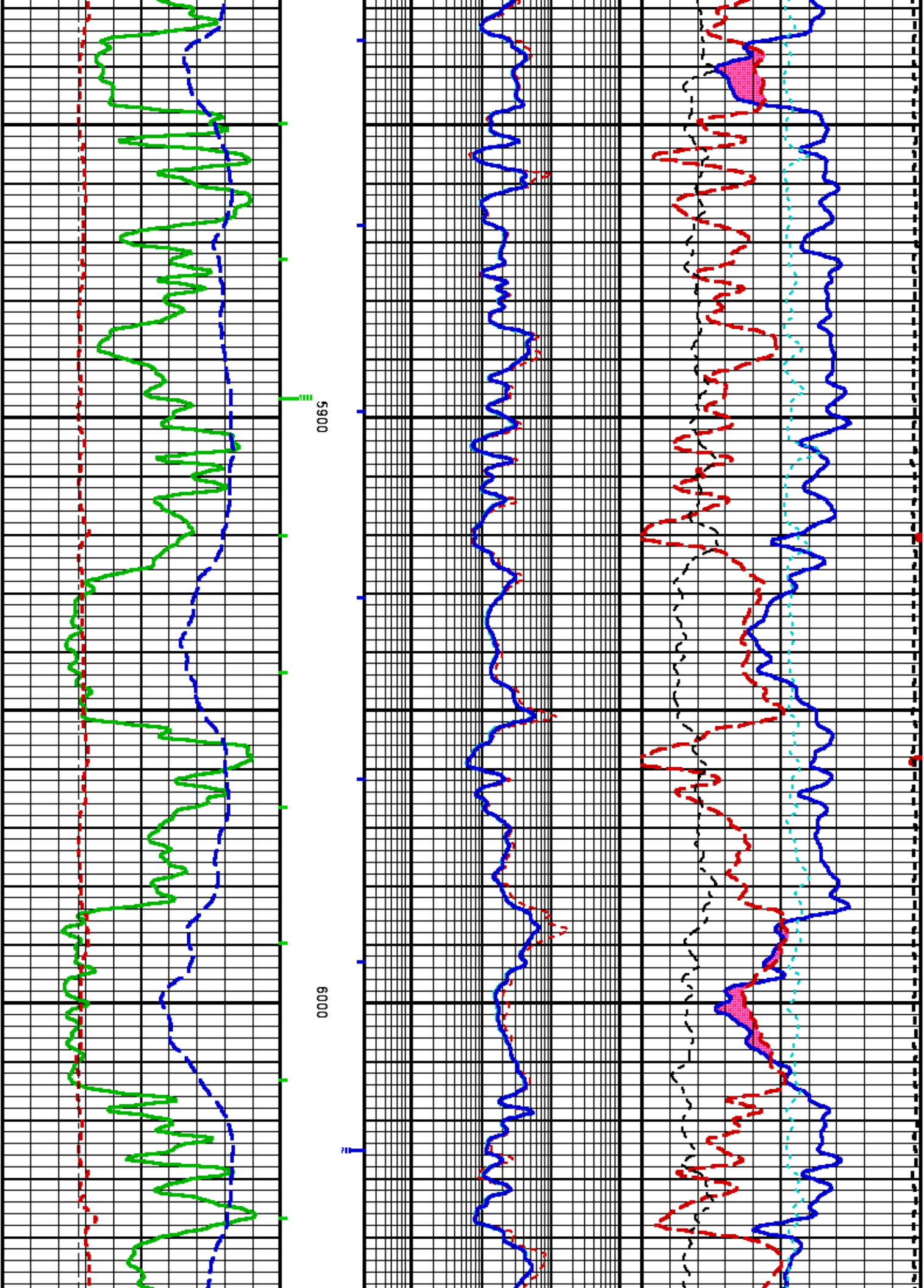


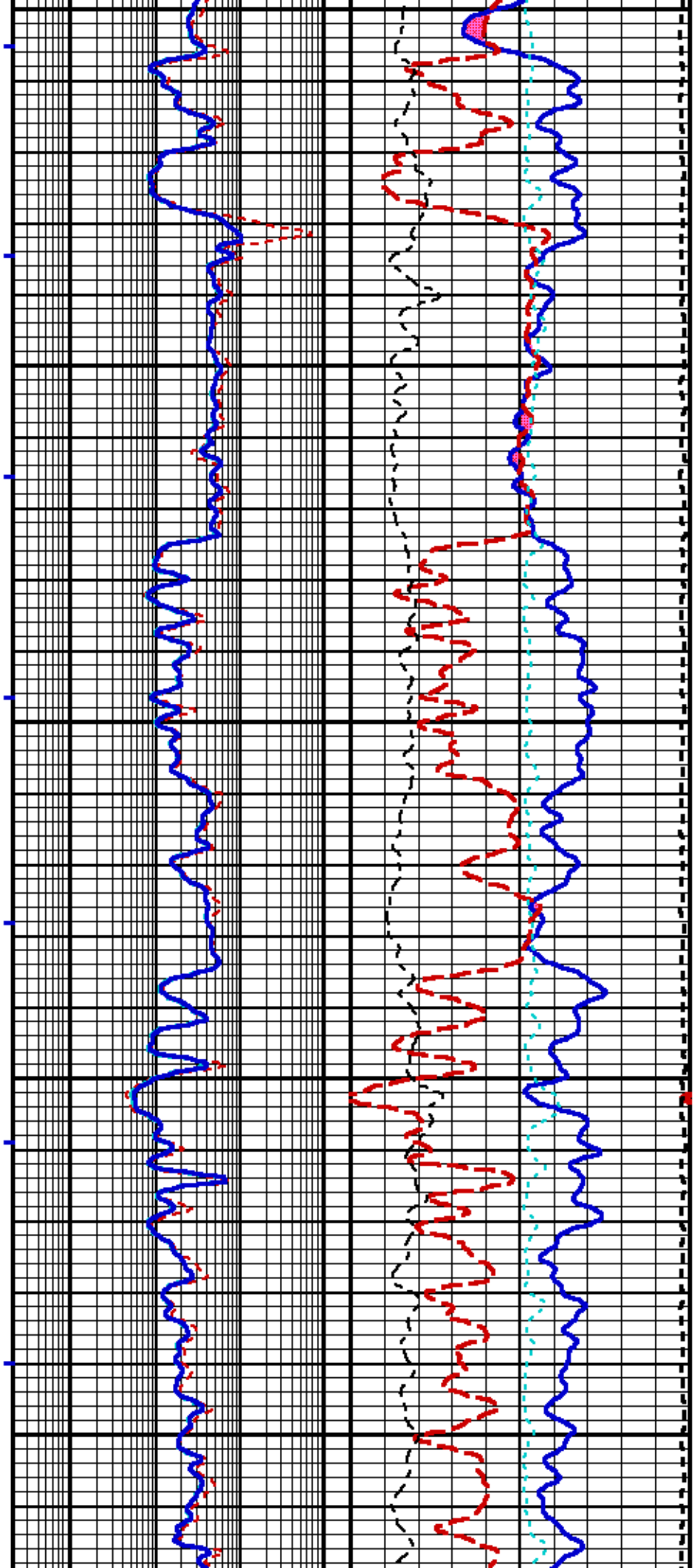






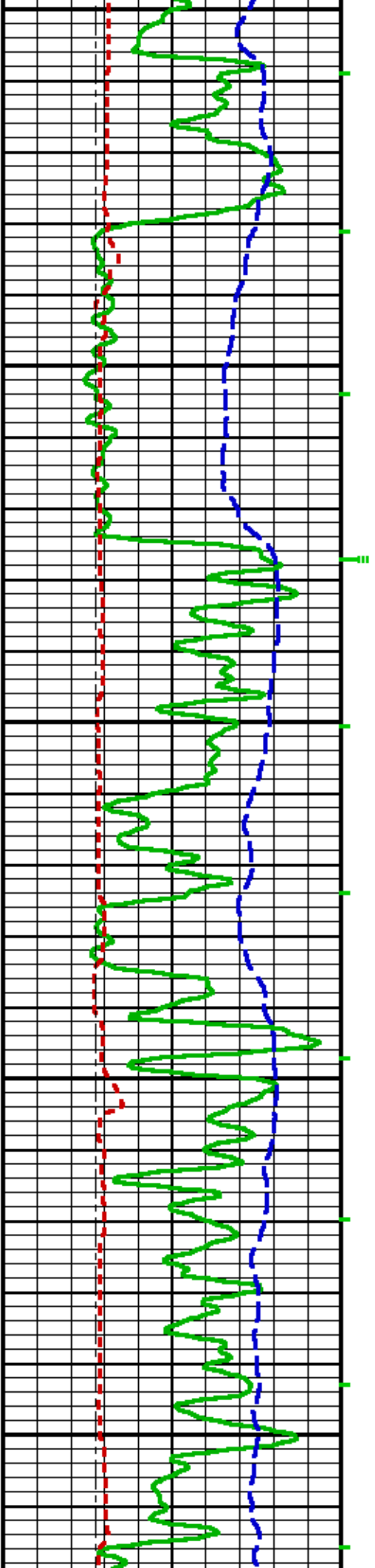


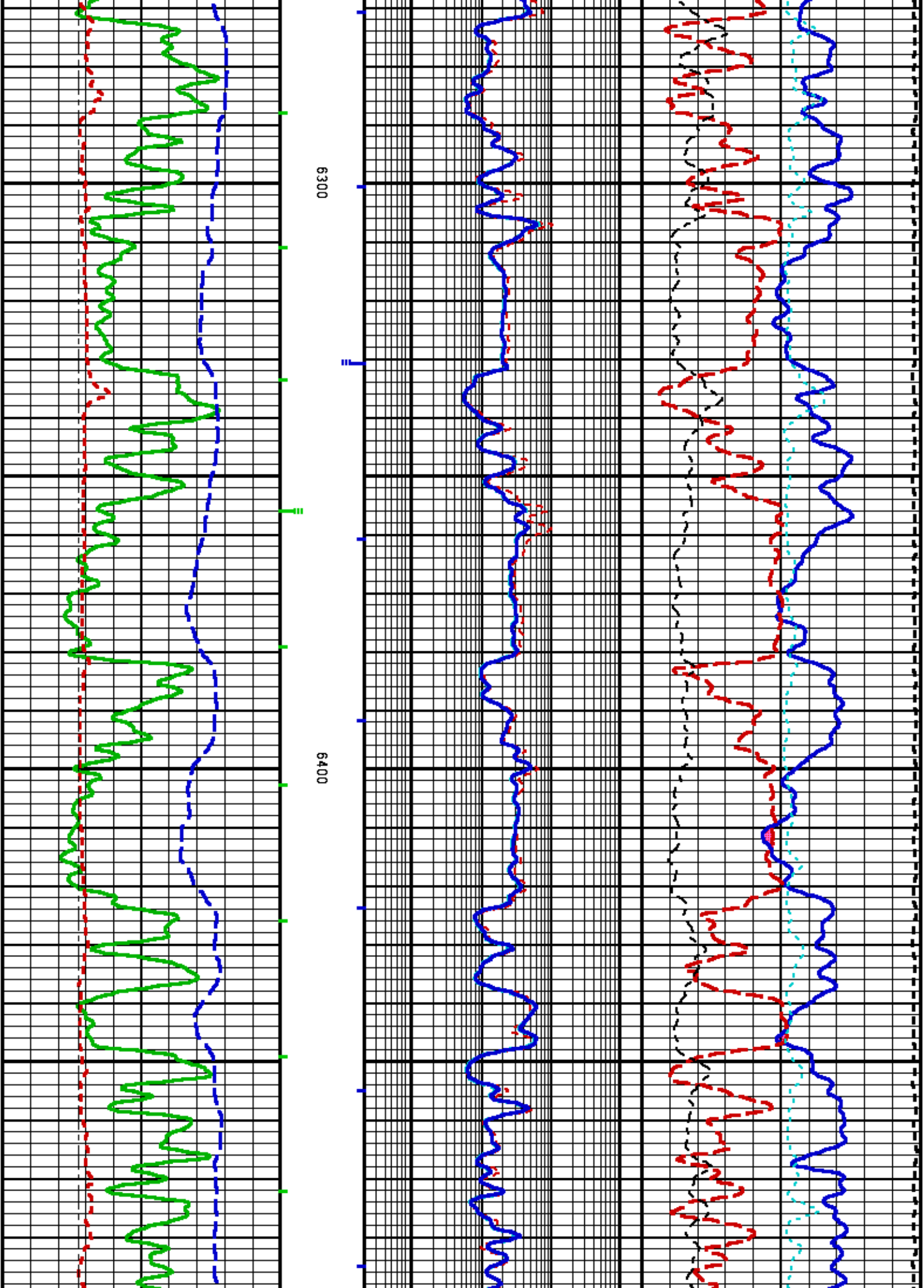


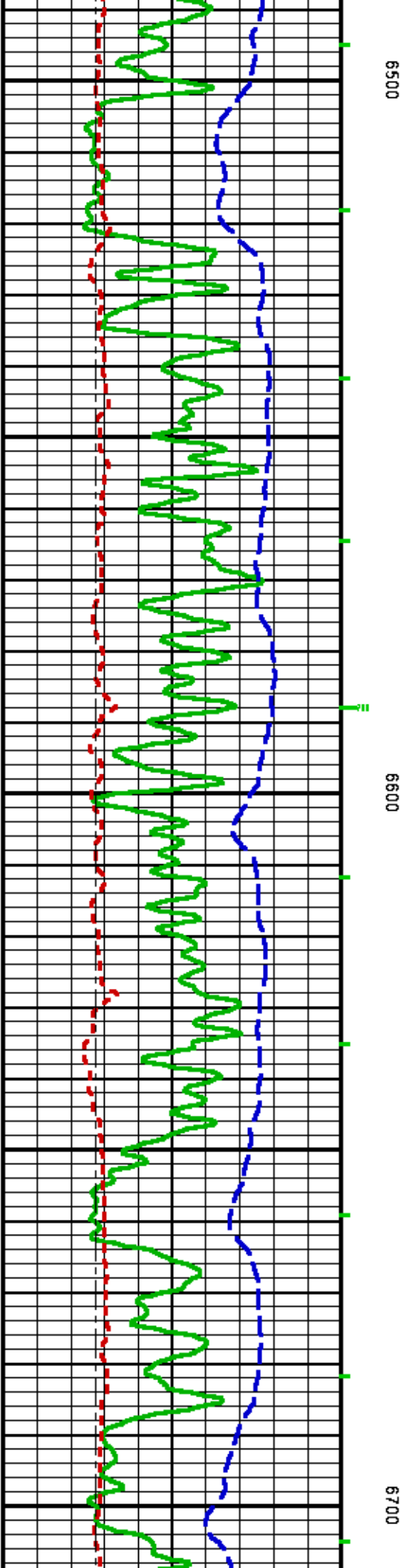
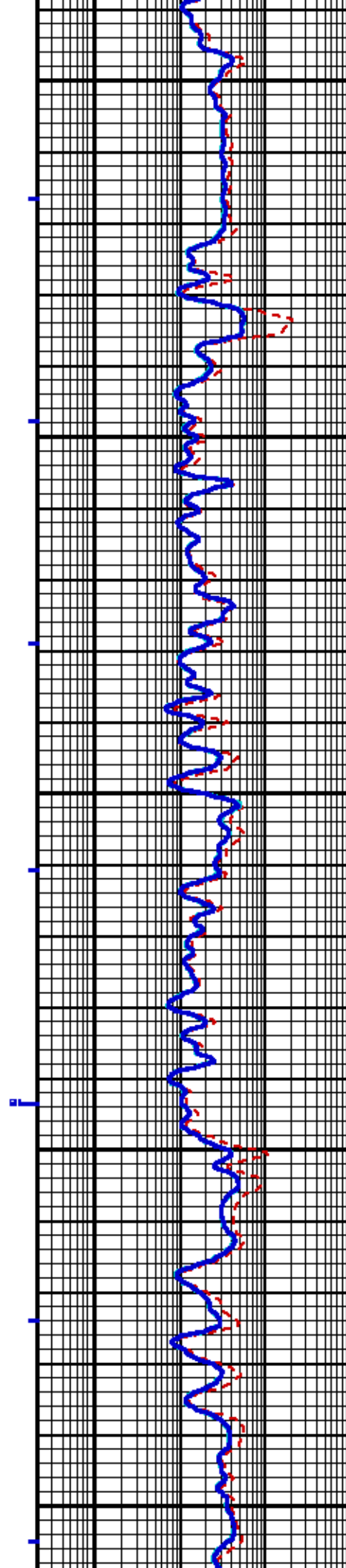
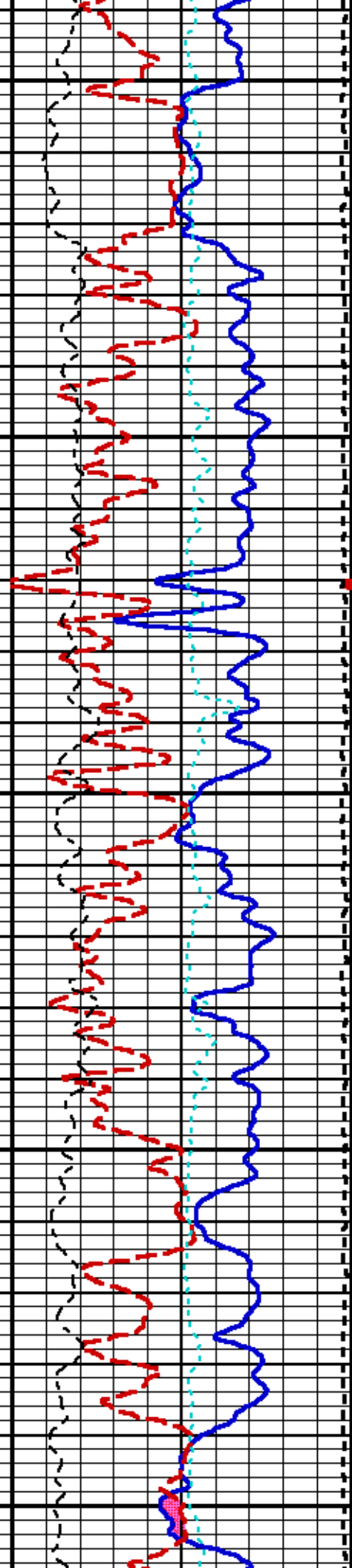


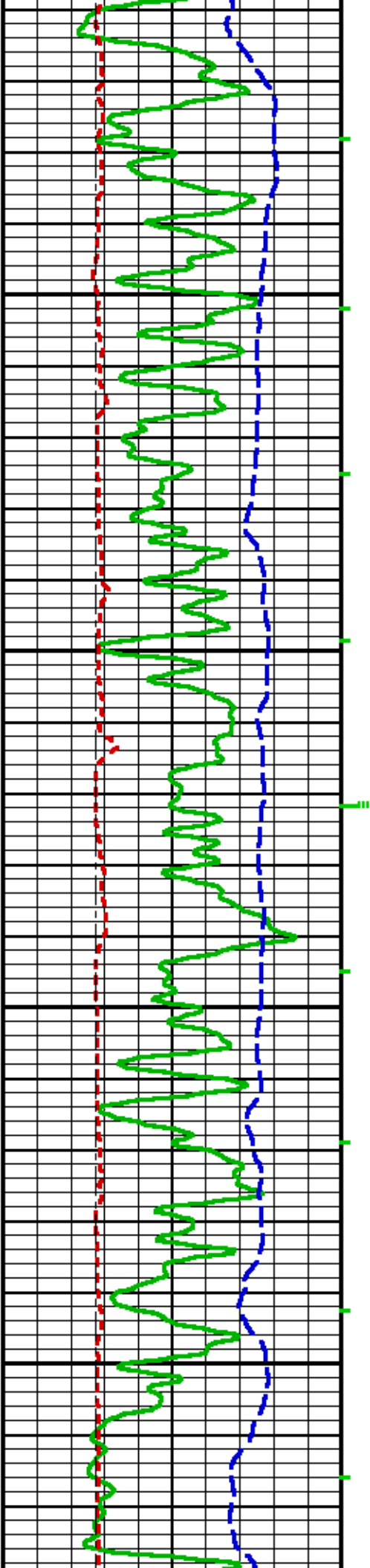
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6200



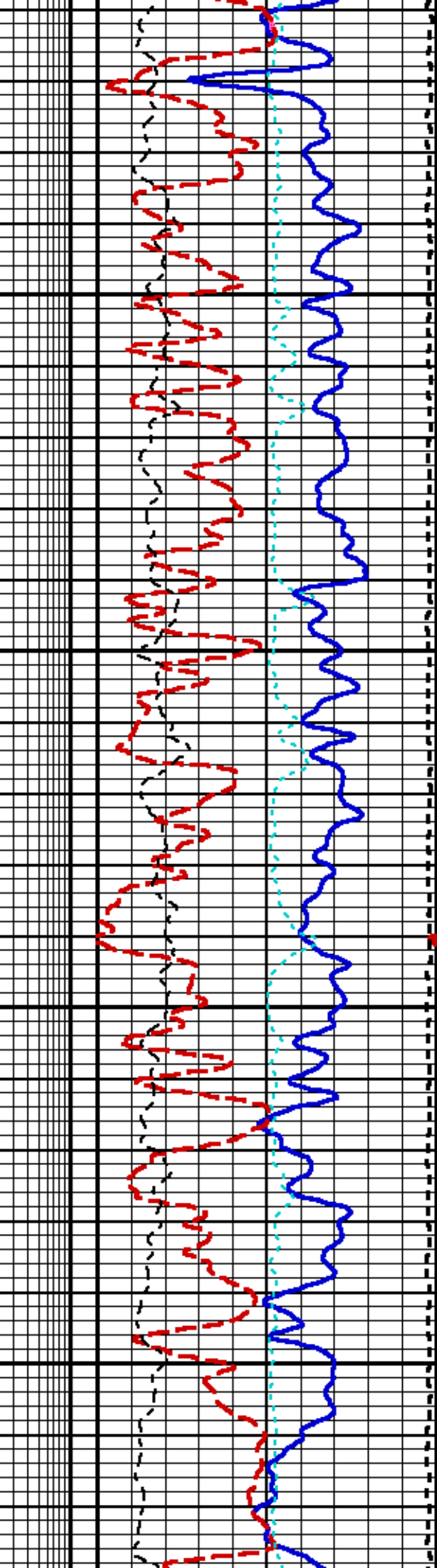
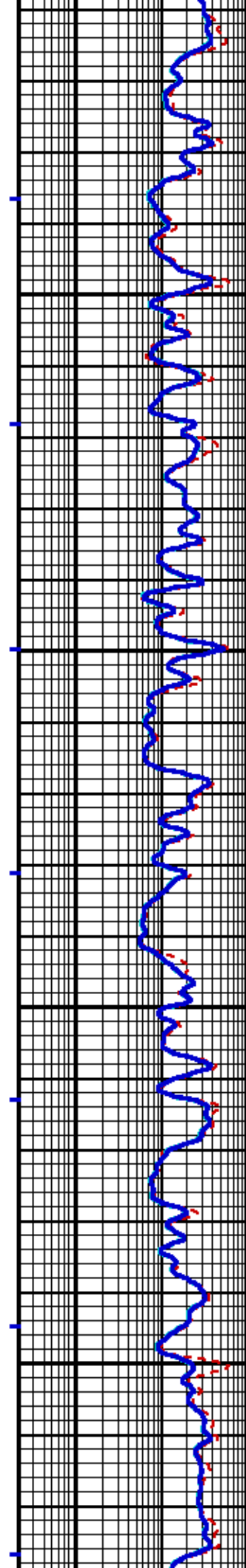


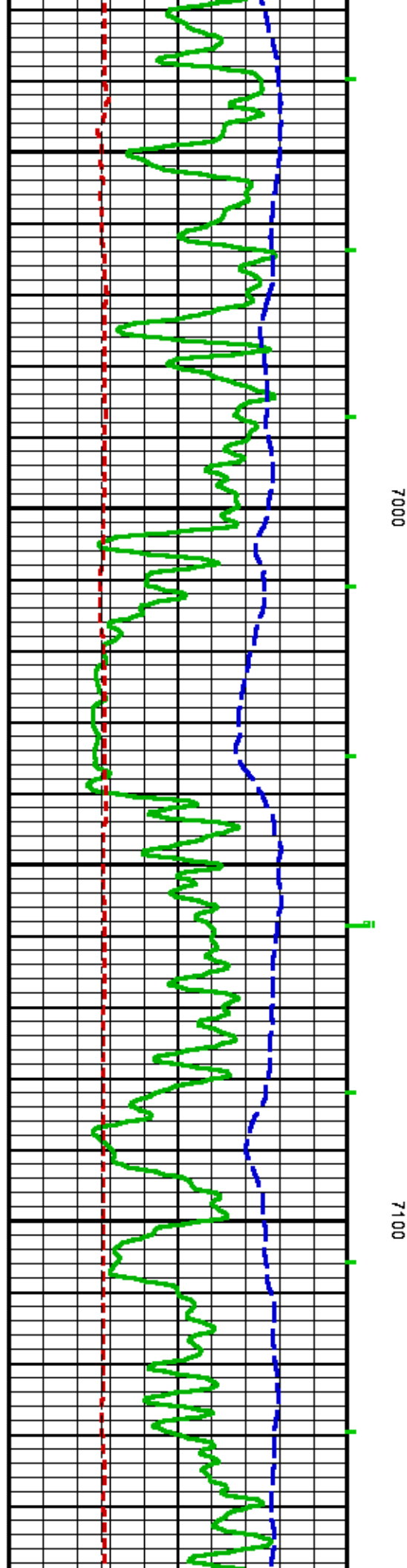
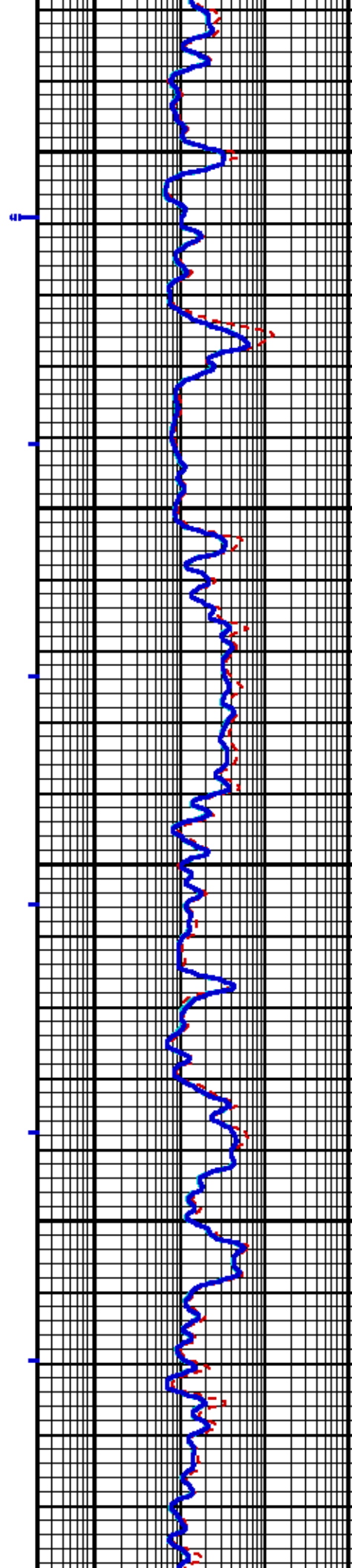
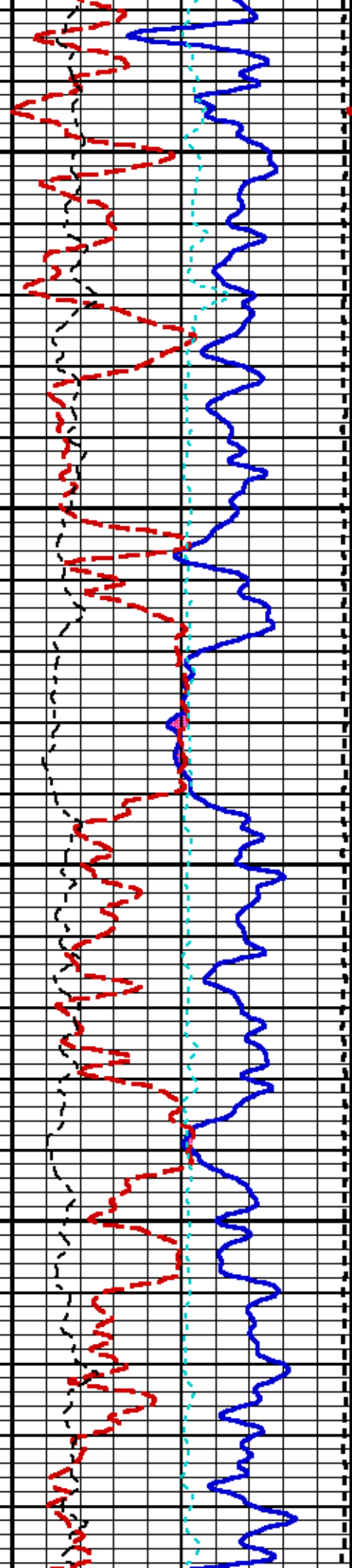


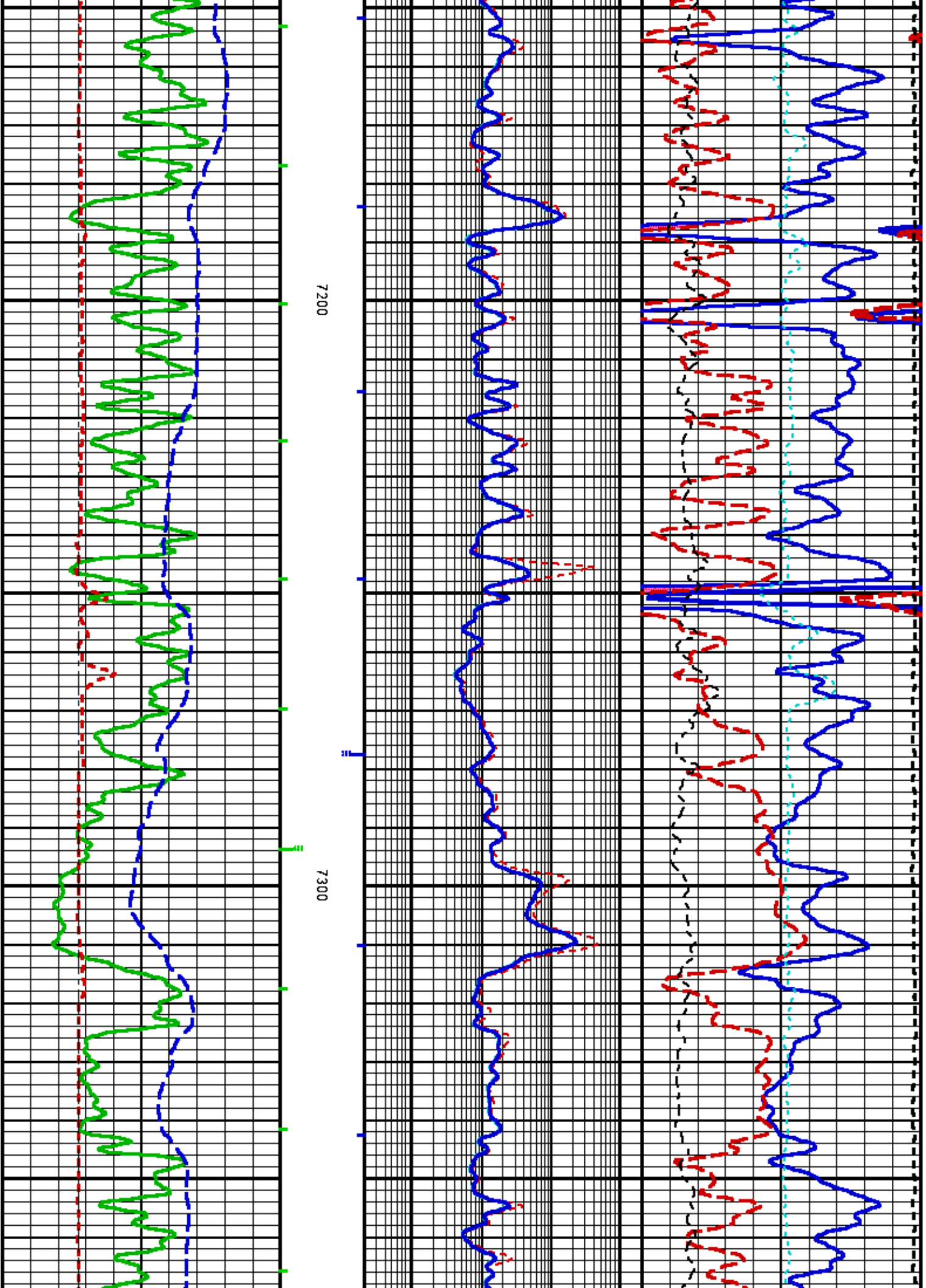


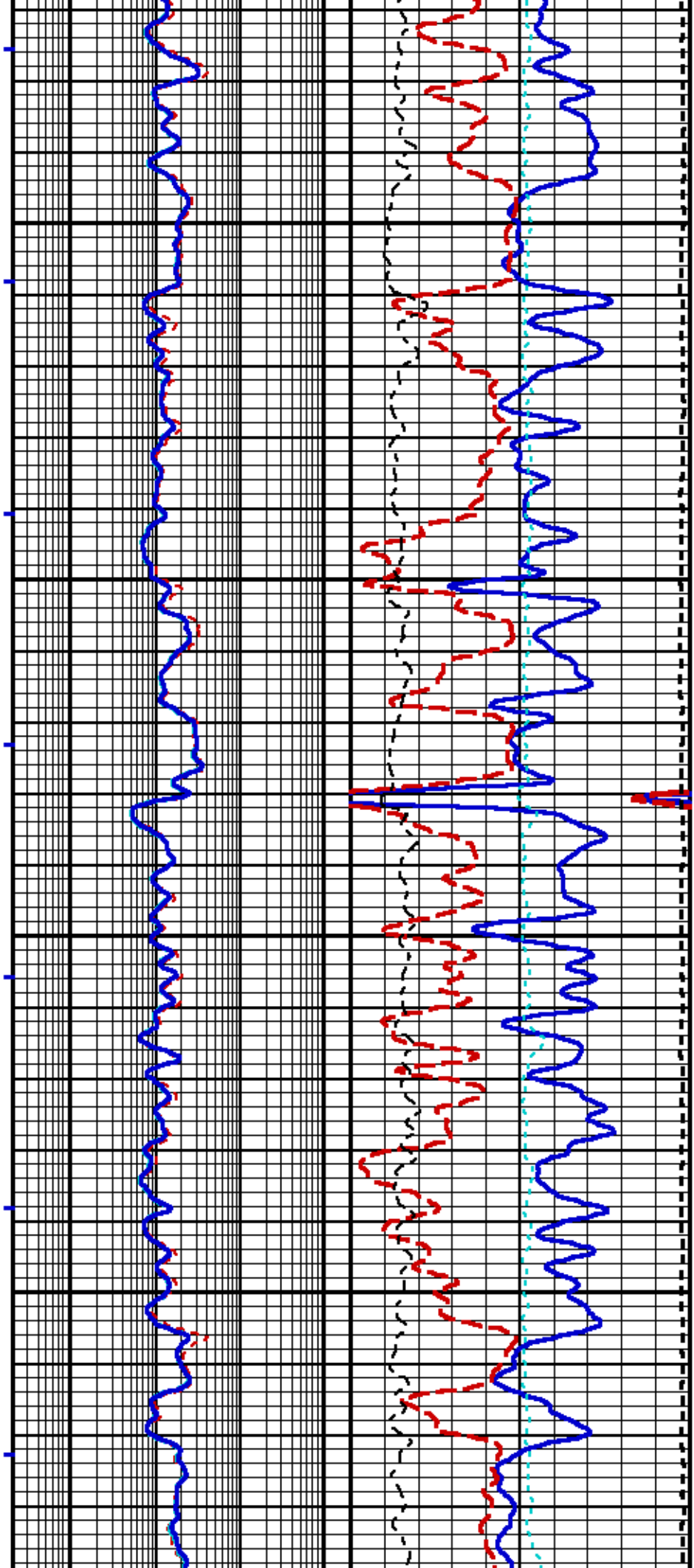
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0069



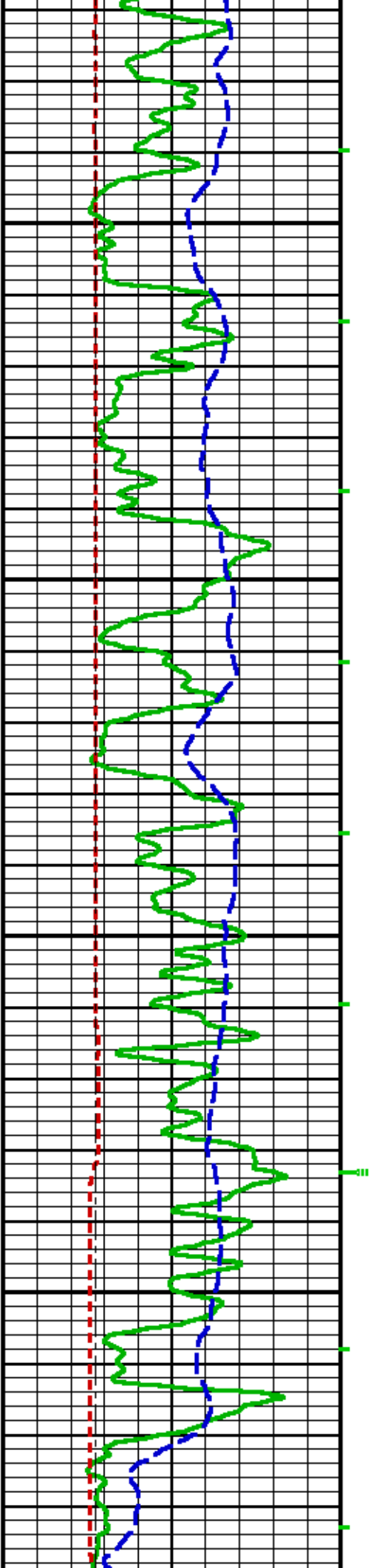


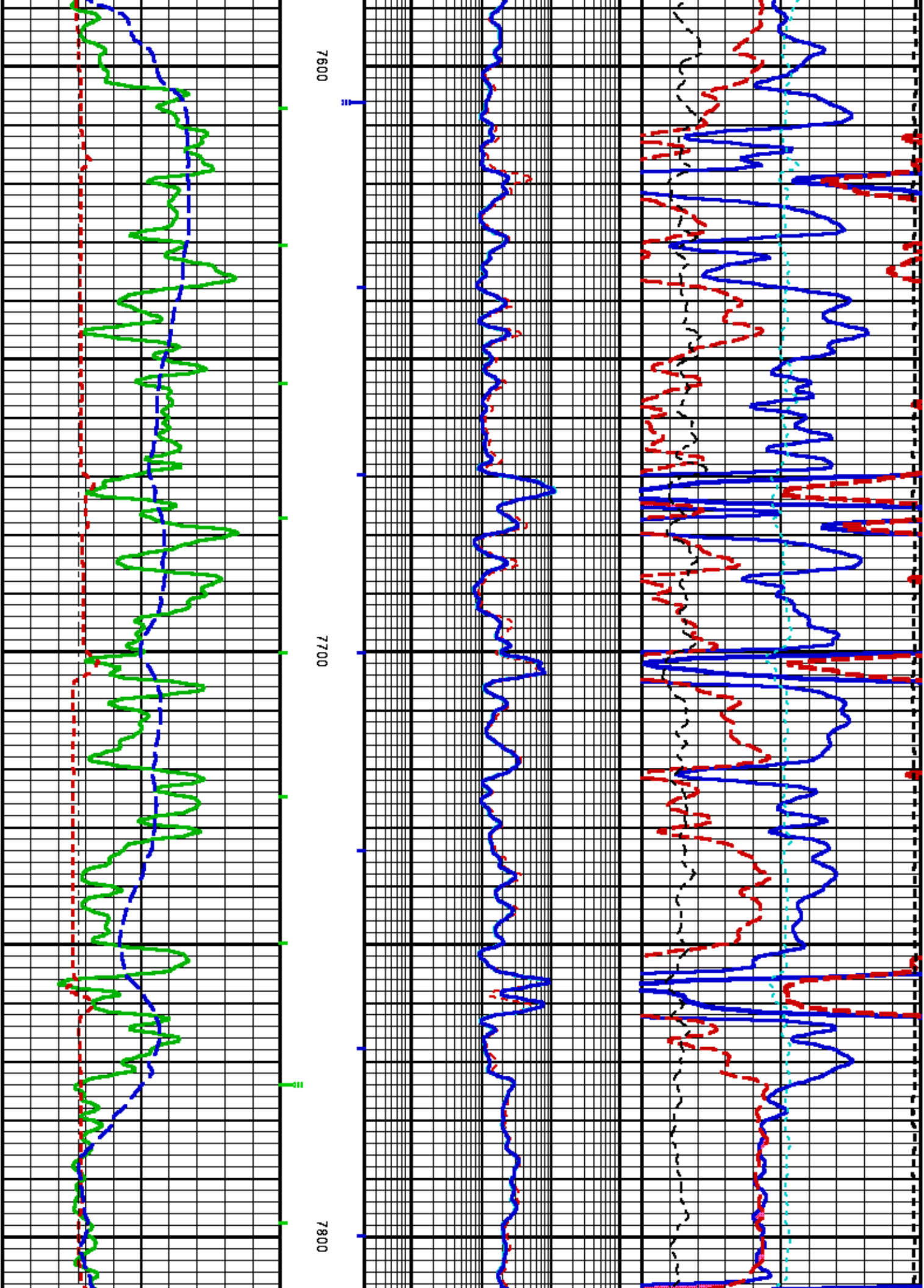


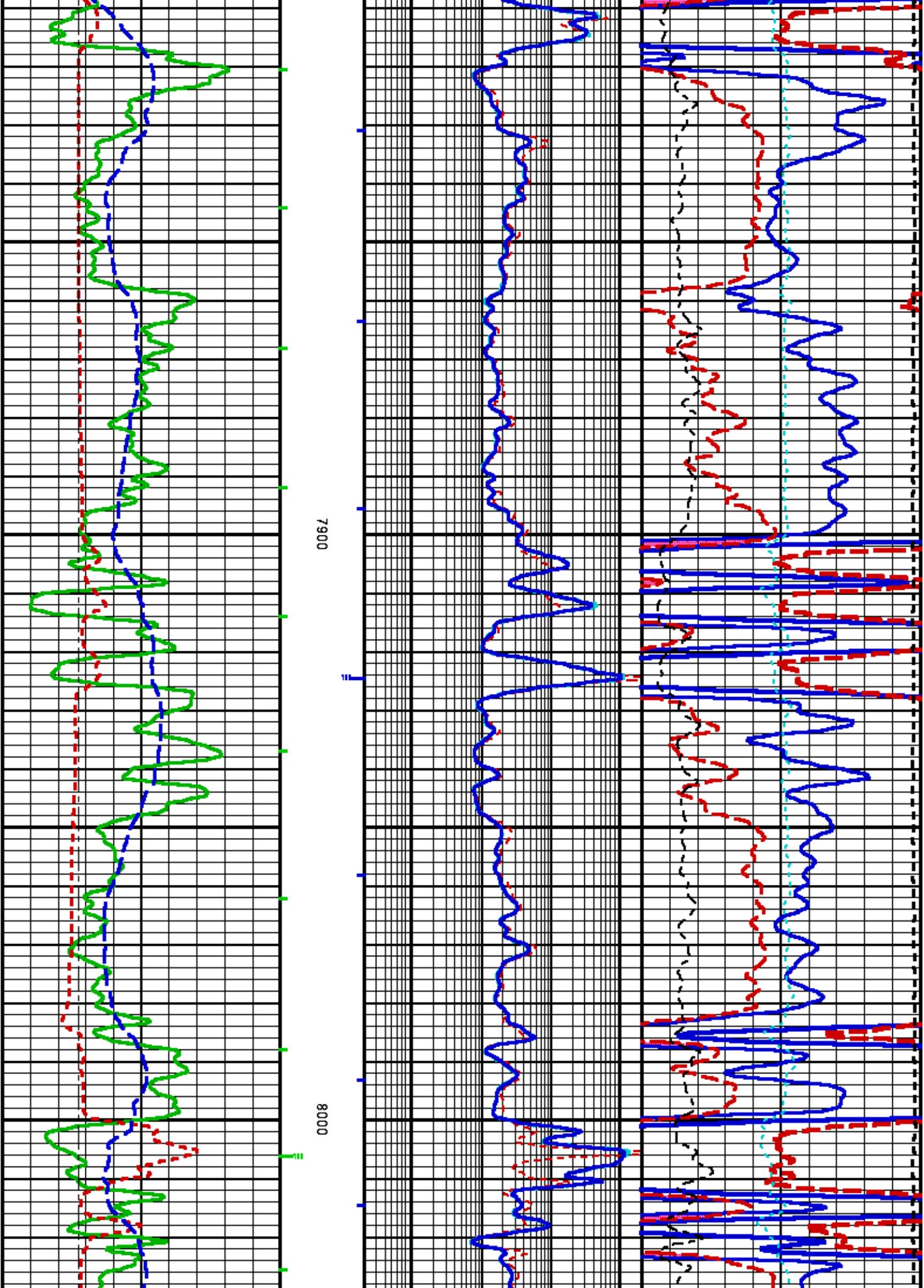


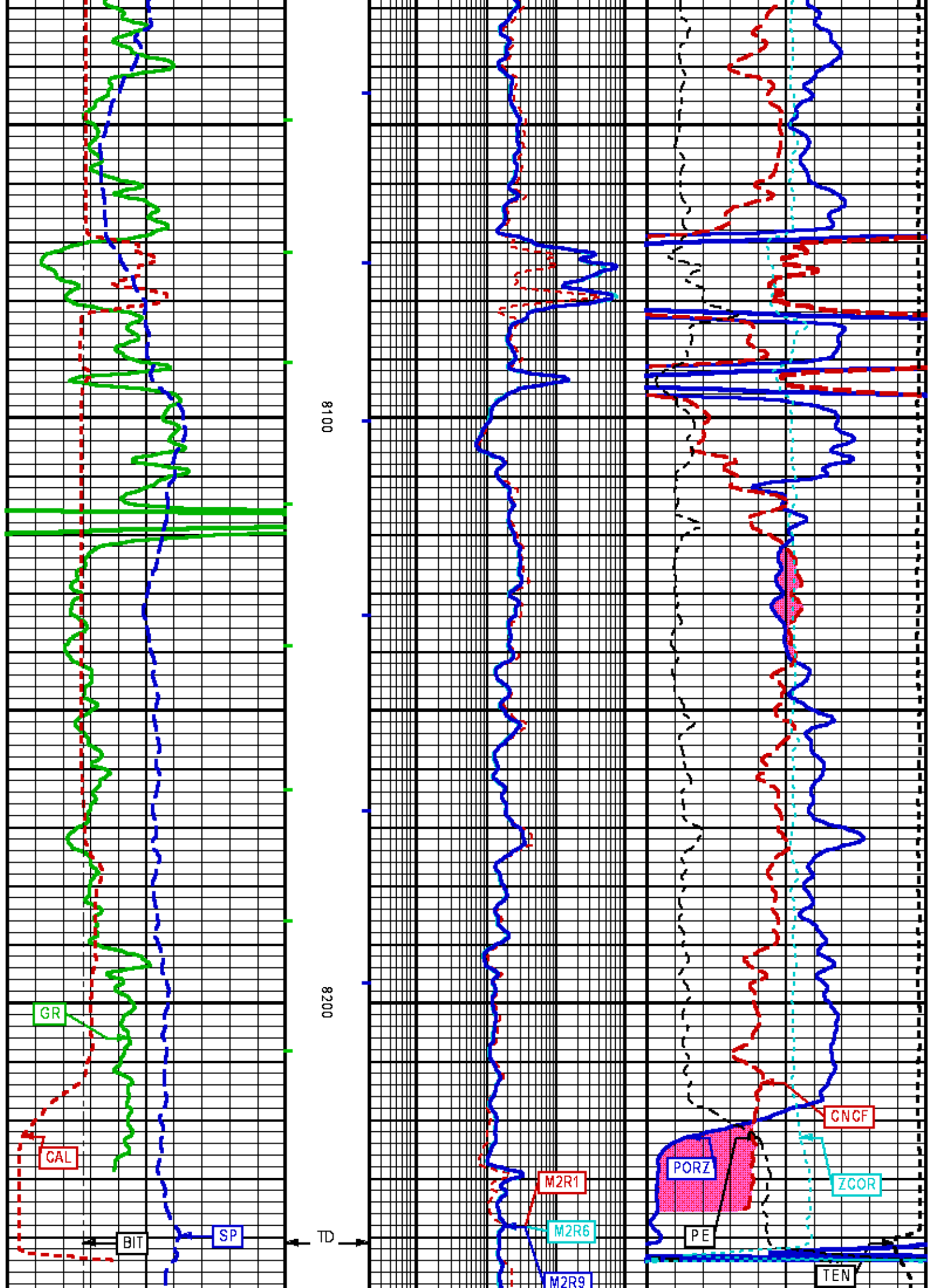
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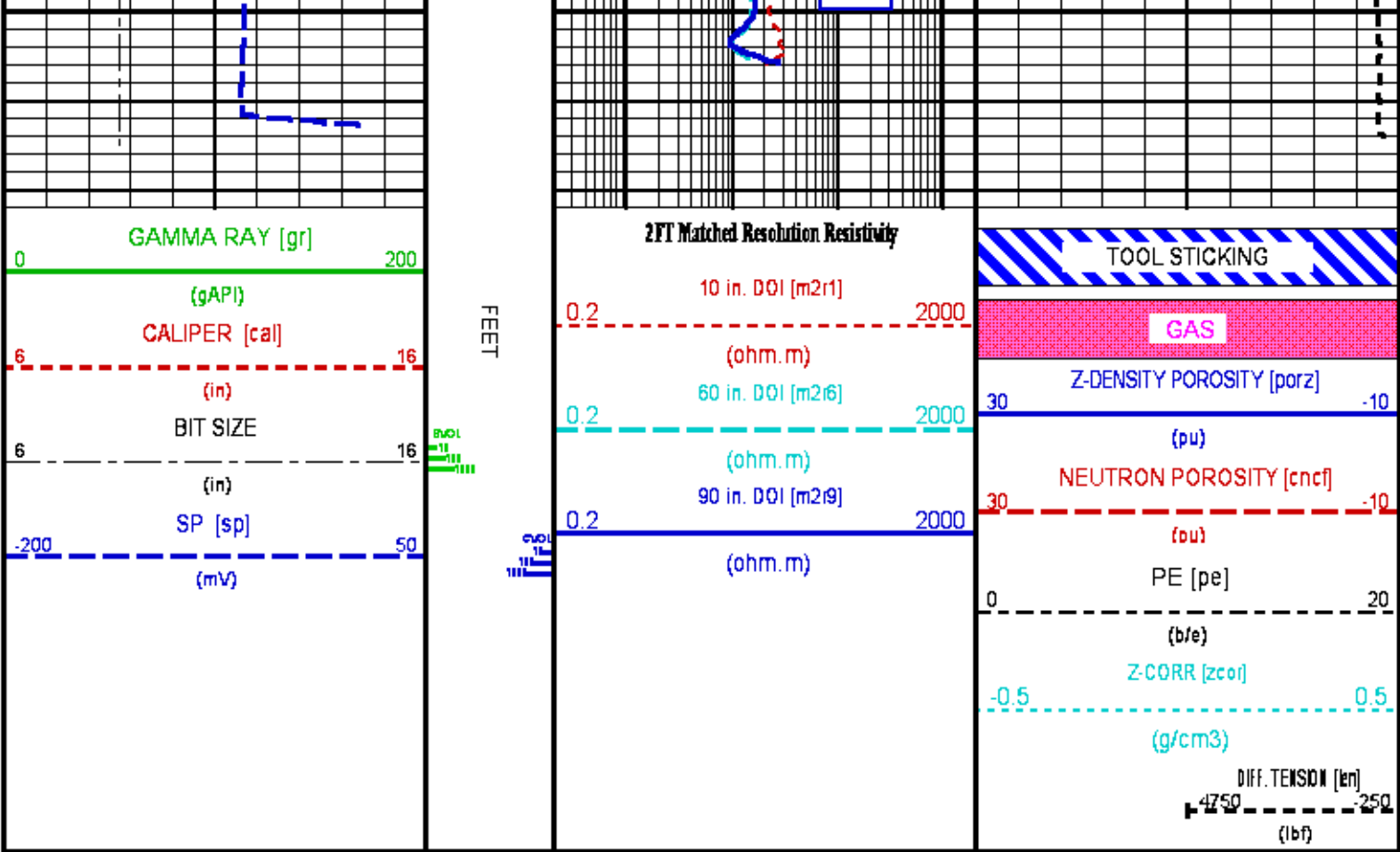
7500











REPEAT LOG

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
Patches: 2

Plotted: Sun Oct 27 21:55:02 2013

PARAMETER AND FILTER SUMMARY REPORT					
File: /dat1a/625262/n970a01.prm					
LOGGING MODE: DEPTH					
TOP DEPTH: 747.427 ft					
DIRECTION: UP					
BOTTOM DEPTH: 1133.553 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 (hrd1s*)	medium		"	"
	FILTER (hrd2*)	medium		"	"
	FILTER (hrd2s*)	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
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	75.0	degF	"	"
	MUD SAMPLE RES	1.530	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	800	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	9.625	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	"	"

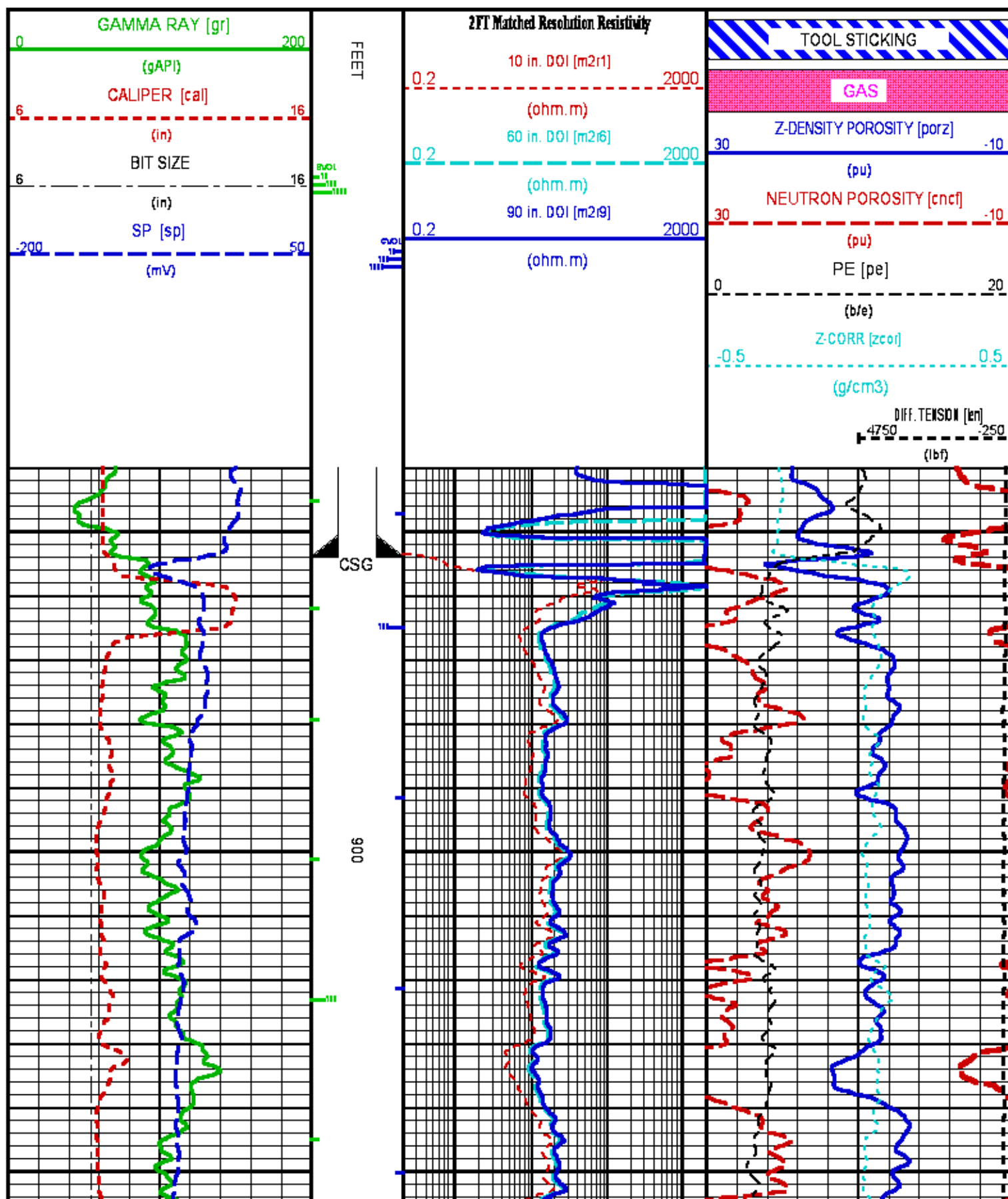
HDIL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
HDIL TEMPERATURE CORRECTION	TEMP CORRECTION	ON		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	MUD CONDUCTIVITY		"	"
	STANDOFF	1.50	in	"	"
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000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

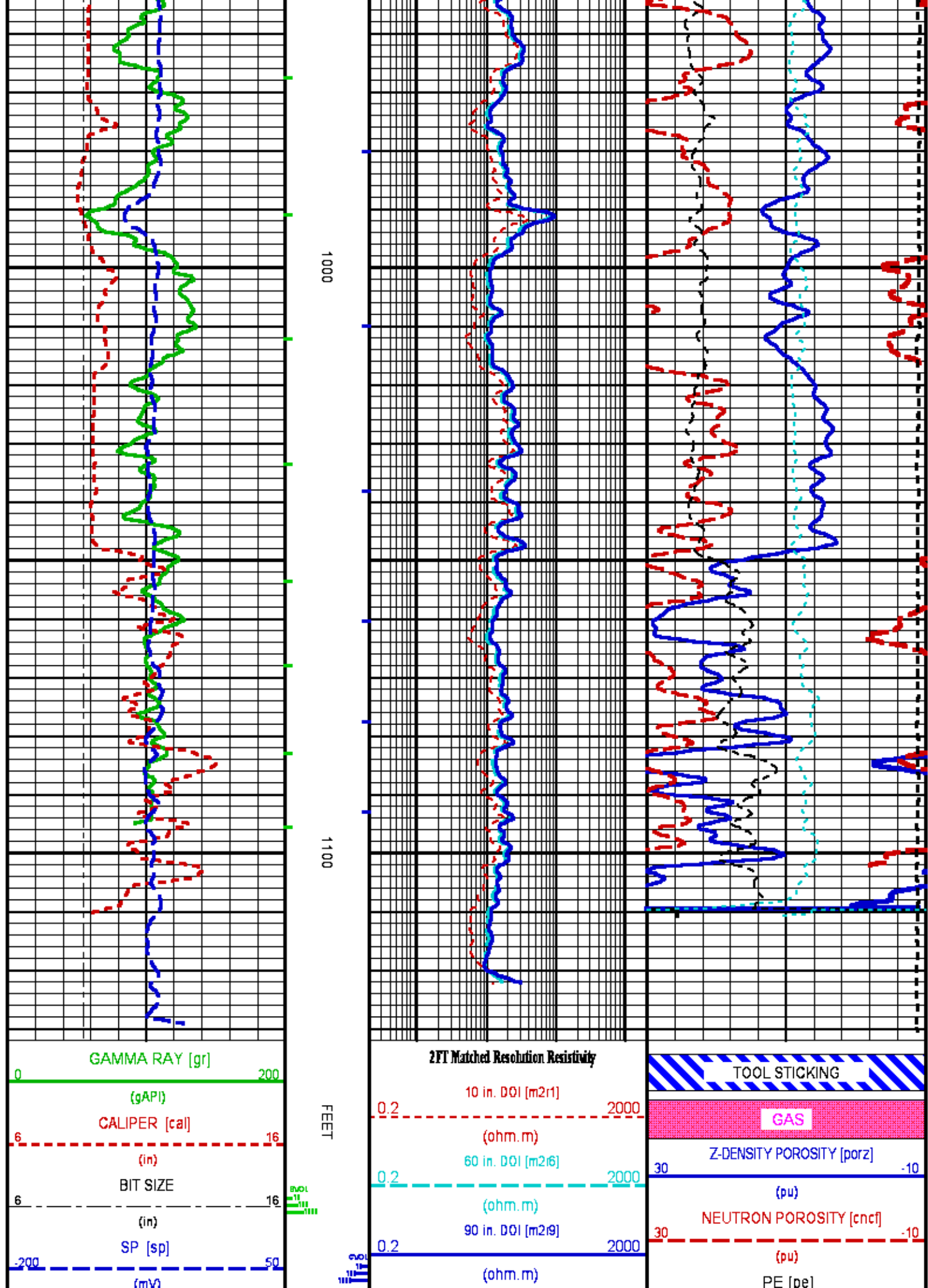
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Oct 27 21:03:52 2013	BIT SIZE
F1:BVOL	Oct 27 21:03:52 2013	BOREHOLE VOLUME
F1:CAL	Oct 27 21:03:52 2013	CALIPER
F1:CNCF	Oct 27 21:03:52 2013	FIELD NORMALIZED COMPENSATED NEUTRON POROSITY
F1:CVOL	Oct 27 21:03:52 2013	CEMENT VOLUME
F1:GR	Oct 27 21:03:52 2013	GAMMA RAY
F1:M2R1	Oct 27 21:03:52 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI
F1:M2R6	Oct 27 21:03:52 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	Oct 27 21:03:52 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:PE	Oct 27 21:03:52 2013	PHOTO ELECTRIC CROSS-SECTION
F1:PORZ	Oct 27 21:03:52 2013	POROSITY FOR SELECTABLE MATRIX
F1:SP	Oct 27 21:03:52 2013	SPONTANEOUS POTENTIAL
F1:TEN	Oct 27 21:03:52 2013	DIFFERENTIAL TENSION
F1:ZCOR	Oct 27 21:03:52 2013	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 : 840 - 1136.5 Feet

Data File 1 : F1 : HL6670:/dat1a/625262/REPEAT.xtf
Created On : Oct 27 21:03:52 2013
Company : WPX ENERGY ROCKY MTN
Well : FEDERAL PA 313-12
Field : PARACHUTE
File Interval : 0 - 1137.75 Feet
OCT : n970a







CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/625262/625262.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 Sig High Mult Factor Add Factor Engr Low Engr High
(ohm) (ohm) (ohm) (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: Sun Oct 27 20:47:08 2013 DAYS SINCE CAL: 808
UNIT #: 3880TA HL6670

	CHT (lb f)	MUD TEMP (deg F)	RES M Q (ohm)	ACCEL Q
CAL	19779	496.58	9.95	1001.67
ZERO	-24785	-436.02	0.249	1001.306

TTMA AFTER LOG VERIFICATION SUMMARY

TOOL #: 3980XA 10142233 DATE/TIME PERFORMED: Mon Oct 28 00:02:07 2013 DAYS SINCE CAL: 808
UNIT #: 3880TA HL6670

	CHT (lb f)	MUD TEMP (deg F)	RES M Q (ohm)	ACCEL Q
CAL	19754	498.33	9.95	1002.12
ZERO	-24785	-436.02	0.249	1000.660

GR PRIMARY CALIBRATION SUMMARY

Tool #: 3518EG 10126398 DATE/TIME PERFORMED: Fri Oct 18 15:59:44 2013
Unit #: 3880TA HL6670 Jlg Series: 4702NK VBA-905

Background	Calibrator ON	Jlg Value (gAPI)	Mult	Background (gAPI)	Calibrator ON (gAPI)
97.16	802.02	185	0.262	25.50	210.50

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 3518EG 10126398 DATE/TIME PERFORMED: Sun Oct 27 20:48:52 2013 DAYS SINCE CAL: 9
UNIT #: 3880TA HL6670 Jlg: INTRNL N/A

Counts	TEMP (degF)	HV (V)
976.67	58.77	1361.74
929.00	1029.00	939.00
		1259.00
		1512.00

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 351BEG 10126398 DATE/TIME PERFORMED: Mon Oct 28 00:01:47 2013 DAYS SINCE CAL: 9

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

Counts	TEMP (degF)	HV (V)
976.33	116.06	1363.22
929.00	1029.00	939.00
		1259.00
		1512.00

CN PRIMARY CALIBRATION SUMMARY

TOOL #: 2436XA 10362459 DATE/TIME PERFORMED: Tue Aug 20 16:08:13 2013

UNIT #: 3880TA HL6670 CALIBRATOR #: 2437XB 112674 SOURCE #: 4718XA VBA-0897

SSN DT CPS	LSN DT CPS	SSN/LSN	MCF	CNRATIO	CN PU
4586.77	791.86	5.79239	0.99044	5.73700	25.241
			0.25000	1.00000	

CN BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2436XA 10362459 DATE/TIME PERFORMED: Sun Oct 27 20:49:49 2013 DAYS SINCE CAL: 68

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

SSN DT CPS	LSN DT CPS	SSN/LSN	TEMP (degF)	HV (V)	LV (V)
992.41	994.44	0.99797	41.7	1346.9	4.648
		0.25000	1.00000	250.4	1250.0
				1450.0	1.300
					5.000

CN AFTER LOG VERIFICATION SUMMARY

TOOL #: 2436XA 10362459 DATE/TIME PERFORMED: Mon Oct 28 00:01:33 2013 DAYS SINCE CAL: 68

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	99.9	1345.4	4.648
		0.25000	1.00000	250.4	1250.0
				1450.0	1.300
					5.000

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2223XA 10102922 DATE/TIME PERFORMED: Tue Oct 15 11:32:24 2013

UNIT #: 3880TA HL6670

	SIZE (in)	VALUE	MULTIPLIER	ADD
SMALL RING (Arm)	7.000	1568.0		
LARGE RING (Arm)	11.000	2796.0	0.00326	1.89251
PAD CLOSED		1312.0	0.00250	-3.28000

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10102922 DATE/TIME PERFORMED: Sun Oct 27 20:56:58 2013 DAYS SINCE CAL: 12

UNIT #: 3880TA HL6670

	VALUE	MULTIPLIER	ADD	SIZE (in)
ARM	2192.0	0.00326	1.89251	9.0
PAD	1553.6	0.00250	-3.28000	0.6

	ACTUAL (in)	MEASURED (in)
DIAMETER (arm+pad)	9.001	9.0
		8.8
		9.4

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: **2223XA 10102922** DATE/TIME PERFORMED: **Sun Oct 27 23:59:47 2013** DAYS SINCE CAL: **12**

UNIT #: **3880TA HL6670**

	VALUE	MULTIPLIER	ADD	SIZE (in)
ARM	1832.0	0.00326	1.89251	7.9
PAD	1968.0	0.00250	-3.28000	1.6

	ACTUAL (in)	MEASURED (in)
DIAMETER (arm+pad)	9.000	9.0
		8.8 9.1

ZDL PRIMARY CALIBRATION SUMMARY

TOOL: **2223XA 10102922** DATE/TIME PERFORMED: **Tue Oct 15 11:15:58 2013**

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)		
	225.5	224.8	1279.9	1406.0		
	250.0	250.0				
	SS (cps)	LS (cps)	SHR	DEN (g/cm3)	CORR (g/cm3)	PE (b/e)
MG (LO PE)	33984.5	11521.2	0.788	1.679	0.000	1.900
			0.780 0.800			
AL	21176.3	1309.8		2.667	-0.016	
AL + SHIM	27943.6	2235.8		2.558	0.098	
MG + SHIM (HI PE)	16900.2	5516.8	0.306			8.550
			0.280 0.300			
RATIO AL + SHIM/AL	1.32	1.71				
	1.30 1.40	1.60 1.80				
RATIO MG/AL	1.60	8.80				
	1.58 1.70	8.58 9.58				

ZDL BEFORE LOG VERIFICATION SUMMARY

TOOL #: **2223XA 10102922** DATE/TIME PERFORMED: **Sun Oct 27 20:53:11 2013** DAYS SINCE CAL: **12**

UNIT #: **3880TA HL6670**

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	3342.1	226.6	1437.0
	3332.1 3352.1	200.0 250.0	1200.0 1500.0
SS	22354.8	224.2	1382.0
	22314.8 22394.8	200.0 250.0	1200.0 1500.0
	LV (V)	PAD CURRENT (mA)	
	5.0	99.2	
	4.8 5.2	90.0 120.0	

ZDL AFTER LOG VERIFICATION SUMMARY

TOOL #: **2223XA 10102922** DATE/TIME PERFORMED: **Mon Oct 28 00:00:08 2013** DAYS SINCE CAL: **12**

UNIT #: **3880TA HL6670**

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	3342.1	224.2	1427.9
	3332.1 3352.1	200.0 250.0	1200.0 1500.0
SS	22355.0	223.5	1363.9
	22314.8 22394.8	200.0 250.0	1200.0 1500.0
	LV (V)	PAD CURRENT (mA)	
	5.0	104.0	
	4.8 5.2	90.0 120.0	

HDIL PRIMARY CALIBRATION SUMMARY

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

0.0042

-0.0002

-0.0000

0.0011

-0.0006

0.0005

-0.0005

0.0001

Cell 0 Q

-0.0056

-0.0013

0.0010

0.0007

-0.0004

-0.0004

-0.0002

-0.0003

Cell 1 R

-0.0021

-0.0034

-0.0014

0.0029

0.0012

0.0002

0.0014

-0.0009

Cell 1 Q

-0.0205

0.0010

0.0015

0.0017

-0.0005

0.0021

0.0005

0.0002

Cell 2 R

0.0066

-0.0025

0.0013

-0.0024

0.0025

0.0034

-0.0027

-0.0010

Cell 2 Q

-0.0104

0.0013

-0.0017

-0.0022

0.0021

-0.0015

0.0005

0.0043

Cell 3 R

0.0058

-0.0075

-0.0015

0.0052

-0.0003

0.0005

-0.0020

-0.0008

Cell 3 Q

-0.0228

-0.0052

0.0073

-0.0050

0.0009

0.0011

0.0011

-0.0074

Cell 4 R

0.0221

-0.0035

0.0040

0.0075

-0.0071

0.0013

0.0017

-0.0132

Cell 4 Q

-0.0215

-0.0135

0.0035

0.0020

0.0027

0.0130

-0.0043

-0.0100

Cell 5 R

0.0310

-0.0214

0.0095

0.0052

-0.0008

0.0115

-0.0062

0.0039

Cell 5 Q

-0.0130

-0.0322

0.0123

0.0041

-0.0023

0.0183

0.0045

-0.0028

ELEC. GAINS

10 KHz

30 KHz

50 KHz

70 KHz

90 KHz

110 KHz

130 KHz

150 KHz

Cell 0 M

162.82

161.40

158.55

154.30

148.75

141.89

133.79

124.60

Cell 0 P

7.657

25.268

42.425

59.542

76.666

93.797

110.973

128.130

Cell 1 M

281.73

279.19

274.11

266.55

256.60

244.30

229.87

213.44

Cell 1 P

7.827

25.740

43.213

60.643

78.082

95.540

113.021

130.453

Cell 2 M

577.88

573.00

563.17

548.42

528.87

504.53

475.70

442.67

Cell 2 P

7.952

26.139

43.898

61.630

79.393

97.184

115.032

132.853

Cell 3 M

925.36

917.24

900.76

876.07

843.66

803.67

756.56

702.54

Cell 3 P

7.735

25.574

42.955

60.298

77.643

95.002

112.404

129.762

Cell 4 M

1455.7

1442.2

1414.6

1373.7

1320.3

1254.9

1178.7

1093.0

Cell 4 P

7.853

25.870

43.420

60.916

78.376

95.829

113.248

130.601

Cell 5 M

2981.2

2958.2

2908.8

2834.7

2734.4

2611.0

2462.2

2291.3

Cell 5 P

7.898

26.058

43.786

61.533

79.288

97.092

114.984

132.851

AM Factor

10 KHz

30 KHz

50 KHz

70 KHz

90 KHz

110 KHz

130 KHz

150 KHz

Cell 0 R

-1095

-644

-523

-454

-404

-366

-336

-313

Cell 0 Q

-1360

-752

-582

-512

-475

-453

-439

-432

Cell 1 R

-147

-154

-145

-133

-122

-113

-105

-97

Cell 1 Q

-130

-83

-77

-78

-79

-79

-79

-79

Cell 2 R

-0.1

-34.7

-36.1

-33.9

-31.0

-28.2

-26.1

-23.7

Cell 2 Q

411.7

137.1

78.2

52.9

39.3

31.7

26.9

24.5

Cell 3 R

0.9

-7.9

-9.3

-9.0

-8.8

-8.3

-7.9

-7.9

Cell 3 Q

124.3

45.7

31.1

25.5

23.1

22.7

23.0

24.1

Cell 4 R

0.28

-2.10

-2.00

-1.80

-2.68

-0.79

-2.13

-1.63

Cell 4 Q

5.03

4.01

4.46

5.55

8.38

8.50

9.75

11.43

Cell 5 R

1.25

-0.05

0.15

-0.07

-1.61

-0.38

-0.48

-0.42

Cell 5 Q

-0.13

Coll 2 M	0.986 0.986 1.100	0.985 0.985 1.100	0.985 0.985 1.100	0.985 0.985 1.100	0.985 0.985 1.100	0.985 0.985 1.100	0.984 0.984 1.100	0.983 0.983 1.100
Coll 2 P	0.191 -1.500 1.500	0.092 -1.500 1.500	0.101 -1.500 1.500	0.121 -1.500 1.500	0.145 -1.500 1.500	0.152 -1.500 1.500	0.183 -1.500 1.500	0.161 -1.500 1.500
Coll 3 M	0.992 0.992 1.100	0.992 0.992 1.100	0.992 0.992 1.100	0.992 0.992 1.100	0.992 0.992 1.100	0.991 0.991 1.100	0.991 0.991 1.100	0.989 0.989 1.100
Coll 3 P	0.083 -1.500 1.500	0.074 -1.500 1.500	0.108 -1.500 1.500	0.161 -1.500 1.500	0.204 -1.500 1.500	0.248 -1.500 1.500	0.310 -1.500 1.500	0.323 -1.500 1.500
Coll 4 M	0.997 0.997 1.100	0.997 0.997 1.100	0.998 0.998 1.100	0.998 0.998 1.100	0.999 0.999 1.100	0.998 0.998 1.100	0.999 0.999 1.100	0.999 0.999 1.100
Coll 4 P	0.140 -1.500 1.500	0.100 -1.500 1.500	0.154 -1.500 1.500	0.211 -1.500 1.500	0.265 -1.500 1.500	0.379 -1.500 1.500	0.459 -1.500 1.500	0.535 -1.500 1.500
Coll 5 M	1.007 0.999 1.100	1.006 0.999 1.100	1.008 0.999 1.100	1.008 0.999 1.100	1.010 0.999 1.100	1.011 0.999 1.100	1.013 0.999 1.100	1.014 0.999 1.100
Coll 5 P	-0.042 -1.500 1.500	0.070 -1.500 1.500	0.171 -1.500 1.500	0.302 -1.500 1.500	0.486 -1.500 1.500	0.558 -1.500 1.500	0.677 -1.500 1.500	0.765 -1.500 1.500

PARMS TCID 0 TCID 1 Cal Temp (degF) T Factor

ID6 2.831 0.846 88.1 1.00

HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1530XA 10121806 DATE/TIME PERFORMED: Sun Oct 27 20:54:45 2013 DAYS SINCE CAL: 19

UNIT #: 3880TA HL6670

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coll 0 R	0.003 -0.200 0.200	-0.001 -0.100 0.100	-0.000 -0.100 0.100	0.000 -0.100 0.100	0.000 -0.100 0.100	0.001 -0.100 0.100	-0.000 -0.100 0.100	0.000 -0.100 0.100
Coll 0 Q	-0.003 -0.500 0.500	-0.001 -0.200 0.200	-0.000 -0.100 0.100	-0.000 -0.100 0.100	-0.000 -0.100 0.100	0.000 -0.100 0.100	0.000 -0.100 0.100	0.000 -0.100 0.100
Coll 1 R	0.003 -0.200 0.200	-0.002 -0.100 0.100	-0.003 -0.100 0.100	0.002 -0.100 0.100	-0.001 -0.100 0.100	0.000 -0.100 0.100	0.001 -0.100 0.100	-0.000 -0.100 0.100
Coll 1 Q	-0.024 -0.500 0.500	-0.002 -0.200 0.200	0.001 -0.100 0.100	-0.000 -0.100 0.100	-0.001 -0.100 0.100	-0.000 -0.100 0.100	0.001 -0.100 0.100	0.001 -0.100 0.100
Coll 2 R	-0.000 -0.200 0.200	-0.002 -0.100 0.100	0.004 -0.100 0.100	-0.004 -0.100 0.100	0.003 -0.100 0.100	-0.000 -0.100 0.100	0.000 -0.100 0.100	-0.003 -0.100 0.100
Coll 2 Q	-0.019 -0.500 0.500	0.000 -0.200 0.200	0.004 -0.100 0.100	-0.001 -0.100 0.100	0.002 -0.100 0.100	-0.005 -0.100 0.100	0.001 -0.100 0.100	0.001 -0.100 0.100
Coll 3 R	0.016 -0.300 0.300	-0.004 -0.100 0.100	0.001 -0.100 0.100	-0.007 -0.100 0.100	-0.005 -0.100 0.100	-0.002 -0.100 0.100	-0.004 -0.100 0.100	0.006 -0.100 0.100
Coll 3 Q	-0.021 -0.500 0.500	-0.007 -0.200 0.200	0.008 -0.100 0.100	0.003 -0.100 0.100	0.001 -0.100 0.100	-0.004 -0.100 0.100	-0.002 -0.100 0.100	-0.002 -0.100 0.100
Coll 4 R	0.018 -0.500 0.500	-0.009 -0.200 0.200	0.002 -0.200 0.200	0.005 -0.200 0.200	-0.009 -0.200 0.200	0.002 -0.200 0.200	0.012 -0.200 0.200	0.007 -0.200 0.200
Coll 4 Q	-0.018 -1.000 1.000	-0.008 -0.400 0.400	-0.001 -0.200 0.200	-0.006 -0.200 0.200	-0.002 -0.200 0.200	0.014 -0.200 0.200	0.003 -0.200 0.200	0.006 -0.200 0.200
Coll 5 R	0.032 -1.200 1.200	-0.019 -0.400 0.400	-0.027 -0.400 0.400	0.012 -0.400 0.400	-0.011 -0.400 0.400	-0.031 -0.400 0.400	-0.011 -0.400 0.400	-0.000 -0.400 0.400
Coll 5 Q	-0.030 -1.500 1.500	-0.035 -0.800 0.800	0.031 -0.400 0.400	0.006 -0.400 0.400	-0.005 -0.400 0.400	0.006 -0.400 0.400	-0.019 -0.400 0.400	-0.003 -0.400 0.400

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coll 0 M	162.81 128.00 198.00	161.38 134.00 184.00	158.50 131.00 181.00	154.23 128.00 178.00	148.65 122.00 170.00	141.75 118.00 181.00	133.62 112.00 150.00	124.43 105.00 138.00
Coll 0 P	7.677 -1.000 12.000	25.272 18.000 30.000	42.431 35.000 50.000	59.531 48.000 71.000	76.646 63.000 91.000	93.769 77.000 110.000	110.914 92.000 130.000	128.038 105.000 151.000
Coll 1 M	281.65 207.00 357.00	279.09 205.00 355.00	273.96 200.00 350.00	266.35 205.00 312.00	256.34 218.00 302.00	244.02 205.00 285.00	229.50 188.00 265.00	213.10 184.00 244.00
Coll 1 P	7.845 -1.000 12.000	25.747 18.000 30.000	43.219 35.000 51.000	60.642 48.000 71.000	78.075 63.000 92.000	95.506 77.000 112.000	112.958 92.000 132.000	130.389 105.000 155.000
Coll 2 M	578.14 478.00 699.00	573.21 474.00 684.00	563.24 465.00 643.00	548.37 450.00 652.00	528.74 432.00 632.00	504.28 412.00 592.00	475.38 380.00 540.00	442.34 355.00 488.00
Coll 2 P	7.969 -1.000 12.000	26.143 18.000 31.000	43.896 35.000 51.000	61.627 48.000 71.000	79.365 63.000 92.000	97.145 77.000 114.000	114.972 92.000 135.000	132.785 105.000 158.000
Coll 3 M	925.56 772.00 1080.00	917.34 764.00 1050.00	900.68 752.00 1030.00	875.78 728.00 1010.00	843.37 700.00 970.00	803.08 665.00 925.00	755.84 625.00 880.00	701.93 580.00 798.00
Coll 3 P	7.757 -2.000 13.000	25.576 18.000 31.000	42.954 35.000 52.000	60.281 48.000 72.000	77.607 63.000 93.000	94.952 77.000 114.000	112.310 92.000 135.000	129.642 105.000 158.000
Coll 4 M	1455.1 1210.0 1700.0	1441.4 1205.0 1680.0	1413.5 1180.0 1650.0	1372.5 1140.0 1590.0	1319.1 1120.0 1530.0	1253.6 1070.0 1450.0	1176.7 1000.0 1350.0	1090.6 942.0 1240.0
Coll 4 P	7.870 -2.000 13.000	25.872 18.000 31.000	43.424 35.000 52.000	60.910 48.000 73.000	78.360 63.000 93.000	95.793 78.000 114.000	113.200 92.000 135.000	130.495 105.000 158.000
Coll 5 M	2982.7 2450.0 3450.0	2959.5 2430.0 3400.0	2909.8 2410.0 3350.0	2833.9 2350.0 3300.0	2734.4 2280.0 3200.0	2610.2 2150.0 2850.0	2461.3 2020.0 2750.0	2290.2 1870.0 2570.0
Coll 5 P	7.912 -2.000 13.000	26.057 18.000 31.000	43.792 35.000 52.000	61.493 48.000 73.000	79.232 63.000 94.000	97.071 78.000 114.000	114.832 92.000 135.000	132.723 105.000 158.000

HDIL AFTER LOG VERIFICATION SUMMARY

TOOL #: 1530XA 10121806 DATE/TIME PERFORMED: Mon Oct 28 00:01:16 2013 DAYS SINCE CAL: 19

UNIT #: 3880TA HL6670

ZERO DATA(mv) 10 KHz 30 KHz 50 KHz 70 KHz 90 KHz 110 KHz 130 KHz 150 KHz

Coll 0 R	0.003 -0.097 0.005	-0.001 -0.081 0.080	0.000 -0.030 0.000	0.001 -0.030 0.000	0.001 -0.030 0.000	-0.000 -0.030 0.001	0.000 -0.030 0.000	0.001 -0.030 0.000
Coll 0 Q	-0.005 -0.013 0.009	0.000 -0.121 0.119	0.000 -0.030 0.000	0.001 -0.030 0.000	0.000 -0.030 0.000	0.001 -0.030 0.000	-0.002 -0.030 0.000	0.000 -0.030 0.000
Coll 1 R	0.003 -0.097 0.005	-0.001 -0.082 0.016	-0.003 -0.033 0.009	0.001 -0.030 0.000	-0.002 -0.031 0.000	0.002 -0.030 0.000	0.001 -0.030 0.001	-0.000 -0.030 0.000
Coll 1 Q	-0.016 -0.121 0.098	-0.002 -0.102 0.080	0.000 -0.029 0.001	0.002 -0.030 0.000	-0.001 -0.031 0.000	0.001 -0.030 0.000	0.002 -0.030 0.001	0.000 -0.030 0.001
Coll 2 R	0.004 -0.090 0.090	-0.002 -0.032 0.000	0.002 -0.029 0.001	-0.002 -0.031 0.000	0.001 -0.029 0.000	0.004 -0.030 0.000	-0.002 -0.030 0.000	-0.006 -0.030 0.009
Coll 2 Q	-0.010 -0.090 0.091	0.001 -0.100 0.100	0.004 -0.029 0.001	-0.001 -0.031 0.000	-0.000 -0.029 0.000	-0.006 -0.029 0.000	-0.003 -0.030 0.001	-0.000 -0.030 0.001
Coll 3 R	0.010 -0.021 0.020	-0.009 -0.011 0.000	-0.006 -0.030 0.011	0.005 -0.019 0.000	-0.005 -0.019 0.000	0.001 -0.012 0.000	-0.003 -0.011 0.000	-0.006 -0.010 0.010
Coll 3 Q	-0.012 -0.021 0.199	-0.003 -0.009 0.093	0.005 -0.032 0.016	-0.001 -0.039 0.013	0.000 -0.030 0.011	0.010 -0.011 0.000	-0.000 -0.012 0.000	-0.003 -0.012 0.000
Coll 4 R	0.021 -0.012 0.098	-0.013 -0.000 0.001	0.008 -0.029 0.000	0.007 -0.029 0.000	-0.004 -0.000 0.001	-0.005 -0.000 0.000	0.005 -0.010 0.092	0.008 -0.003 0.009
Coll 4 Q	-0.008 -0.310 0.292	0.002 -0.100 0.002	0.008 -0.001 0.000	-0.009 -0.000 0.001	0.015 -0.002 0.000	0.006 -0.010 0.091	0.002 -0.009 0.000	-0.007 -0.001 0.000
Coll 5 R	0.041 -0.000 0.152	0.002 -0.130 0.101	-0.002 -0.119 0.000	0.041 -0.100 0.152	0.007 -0.131 0.100	0.010 -0.131 0.000	0.001 -0.131 0.100	-0.017 -0.120 0.120
Coll 5 Q	-0.039 -0.000 0.090	0.010 -0.200 0.215	-0.001 -0.000 0.101	0.010 -0.111 0.100	-0.021 -0.120 0.115	-0.010 -0.111 0.100	0.008 -0.130 0.101	-0.020 -0.120 0.119

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coll 0 M	162.39 130.25 180.09	160.96 130.15 181.81	158.08 130.33 181.89	153.84 131.15 189.32	148.22 115.00 191.02	141.38 130.02 144.30	133.28 130.00 130.20	124.07 121.01 126.01
Coll 0 P	7.426 1.097 10.097	25.261 22.092 28.092	42.506 30.131 45.131	59.684 30.031 62.031	76.855 33.010 79.810	94.027 80.900 95.900	111.246 109.011 113.011	128.440 120.000 131.000
Coll 1 M	281.76 290.01 280.20	279.21 293.00 284.89	274.07 288.10 290.11	266.51 281.02 291.00	256.44 281.21 281.19	244.18 250.11 248.00	229.69 221.01 234.00	213.13 200.00 219.00
Coll 1 P	7.606 1.010 10.010	25.727 22.919 28.919	43.278 10.210 46.210	60.773 39.012 63.012	78.244 39.093 81.093	95.738 82.000 95.000	113.246 100.000 115.000	130.712 129.000 133.000
Coll 2 M	576.99 500.00 550.91	572.08 501.93 561.00	562.16 501.00 591.01	547.35 509.11 590.31	527.70 510.19 530.30	503.36 481.20 511.39	474.55 400.09 484.00	441.58 433.10 451.10
Coll 2 P	7.698 1.000 10.000	26.129 23.113 29.113	43.978 10.000 46.000	61.778 30.009 61.009	79.593 30.000 82.000	97.429 81.110 100.110	115.328 111.092 119.092	133.216 120.900 135.900
Coll 3 M	924.66 809.00 911.09	916.41 800.00 920.00	899.79 800.09 910.00	875.06 800.00 920.00	842.44 800.00 880.00	802.29 709.01 810.11	754.95 710.95 790.00	701.01 609.00 710.00
Coll 3 P	7.472 1.999 10.999	25.564 22.090 28.090	43.047 30.001 45.001	60.446 39.001 63.001	77.847 31.009 80.009	95.266 81.000 99.000	112.700 100.310 115.310	130.097 120.012 132.012
Coll 4 M	1457.4 1100.0 1400.0	1443.7 1110.0 1490.0	1415.8 1300.0 1440.0	1375.0 1310.1 1400.0	1320.7 1200.9 1340.0	1255.1 1200.0 1290.0	1178.9 1100.0 1200.0	1092.4 1000.0 1110.0
Coll 4 P	7.627 1.090 10.090	25.869 22.092 28.092	43.510 10.121 46.121	61.068 39.010 63.010	78.580 39.000 81.000	96.090 82.900 95.900	113.558 110.000 115.000	130.940 129.000 133.000
Coll 5 M	2979.0 2000.0 3000.0	2955.4 2000.0 3000.0	2905.6 2000.0 3000.0	2831.9 2777.2 2900.0	2730.9 2690.9 2760.0	2605.0 2000.0 2600.0	2456.9 2110.0 2510.0	2286.5 2211.1 2300.0
Coll 5 P	7.674 1.012 10.012	26.073 23.009 29.009	43.909 10.902 46.902	61.703 30.100 61.100	79.546 30.000 82.000	97.405 81.091 100.091	115.336 111.000 119.000	133.249 120.900 135.900

INSTRUMENT CONFIGURATION

Source File: /mnt1a/625262/625262-tdg

52.34"

FOCUS CABLEHEAD

Diameter : 3.13"
Length : 3.17'
Weight : 1.5 lbs
Series : CBLH31B
Mnemonic : CBLH

FOCUS SWIVEL

Diameter : 3.13"
Length : 3.58'
Weight : 50 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 : 4.8'
Weight : 351 lbs
Series : 351BFB
Mnemonic : TMCR

FOCUS EB/EC TELEMETRY GAMMA RAY

Diameter : 3.13"
Length : 5.83'
Weight : 63 lbs
Series : 351BEC
Mnemonic : CR
Measure Point: 4.34': CR MP

CR MP — 36.97'

FOCUS COMPENSATED NEUTRON

Diameter : 3.13"
Length : 4.81'
Weight : 65 lbs
Series : 6436XA
Mnemonic : CN
Measure Point: 1.92': LSN MP
Measure Point: 1.46': SSN MP

LSN MP — 29.83'

SSN MP — 29.38'

FOCUS Z-DENSILOG

Diameter : 3.75"
Length : 9.58'
Weight : 300 lbs
Series : 3323XA
Mnemonic : ZDL
Measure Point: 4.33': CR1 MP
Measure Point: 1.68': LSD / CR2 MP
Measure Point: 1.29': SSD MP

CR1 MP — 22.67'

LSD / CR2 MP — 20.02'

SSD MP — 19.63'

FOCUS KNUCKLE JOINT

Diameter : 3.13"
Length : 1.50'
Weight : 30 lbs
Series : 3930XA

FOCUS KNUCKLE JOINT

Diameter : 3.13"
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: 5.67': COIL 4 MP
Measure Point: 4.17': 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 : HENDIB

0.00'

TOTAL LENGTH: 52.34'
TOTAL WEIGHT: 688 lbs
MAX DIAMETER: 0' 6.13"



COMPANY	WPX ENERGY ROCKY MTN	FILE NO:	US625262
WELL	FEDERAL PA 313-12	API NO:	05045206550000
FIELD	PARACHUTE		
COUNTY	GARFIELD	STATE	CO
LOCATION:		ELEVATIONS:	SEC 12 T7S R95W
SHL: 2586' FSL 1723' FWL		KB 6533 FT	PAD: PA 23-12
BHL: 2143' FSL 518' FWL		DF 6533 FT	RIG: NABORS 577
GL 6507 FT			
SEC	12	TWP	7S
RGE	95W	DATE	18-Oct-2013

