



FILE NO: US086223J COMPANY **WPX ENERGY ROCKY MTN LLC**

API NO: 0504522250000 WELL **PA 313-6** FIELD **PARACHUTE** COUNTY **GARFIELD** STATE **COLORADO**

Ver. 3.87 LOCATION: SHL: 755' FSL: 738' FWL: S6 T7S R95W OTHER SERVICES: NONE

SEC 6 TWP 7S RGE 95W

PERMANENT DATUM GL ELEVATION 5153 FT
LOG MEASURED FROM KB 26 FT ABOVE P.D.
DRILL. MEAS. FROM KB
ELEVATIONS: KB 5179 FT
DF
GL 5153 FT

DATE	TRIP	18-MAY-2014	19-MAY-2014
RUN	1	1	2
SERVICE ORDER	US086223J	US086223J	
DEPTH DRILLER	6890 FT	6890 FT	
DEPTH LOGGER	BRIDGED AT 2376 FT	6880 FT	
BOTTOM LOGGED INTERVAL	NA	6872 FT	
TOP LOGGED INTERVAL	0 FT	0 FT	
CASING DRILLER	9.625 IN @ 1205 FT	9.625 IN @ 1205 FT	
CASING LOGGER	1202 FT	1202 FT	
BIT SIZE	8.75 IN	8.75 IN	
TYPE OF FLUID IN HOLE	LSND	LSND	
DENSITY	11.8 LB/G	47 S	47 S
PH	9	5.4 C3	9
SOURCE OF SAMPLE	FLOWLINE	FLOWLINE	
RM AT MEAS. TEMP.	2.2 OHMM @ 73 DEGF	1.65 OHMM @ 64 DEGF	
RMF AT MEAS. TEMP.	1.65 OHMM @ 73 DEGF	1.24 OHMM @ 64 DEGF	
RMC AT MEAS. TEMP.	2.75 OHMM @ 73 DEGF	2.06 OHMM @ 64 DEGF	
SOURCE OF RMF	RMC	CALCULATED	CALCULATED
RM AT BHT	1.67 OHMM @ 113.5 DEGF	1.06 OHMM @ 172.5 DEGF	
TIME SINCE CIRCULATION	8 HRS	13 HRS	
MAX. RECORDED TEMP.	114.9 DEGF	173.76 DEGF	
EQUIP. NO.	6685	6685	
LOCATION	W. QUIGLEY/L. PATTON	W. QUIGLEY/L. PATTON	
RECORDED BY	MR. MATT HUTSON	MR. MATT HUTSON	
WITNESSED BY			

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
13.5 IN	0 FT	1202 FT
8.75 IN	1202 FT	

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN	32 LB/F		0 FT	1202 FT

REMARKS

RUN 1 TRIP 1: HDIL ZDL CN RAN IN COMBINATION

BVOL CVOL CALCULATED IN CUBIC FT
CVOL CALCULATED USING PROPOSED 4.5" CASING
CALIPER VERIFIED INSIDE CASING

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

CN MATRIX: SANDSTONE
CN RAN DECENTRALIZED

HDIL RAN WITH 1.5" STANDOFFS
ABC TO CALCULATE MUD CONDUCTIVITY

THANK YOU FOR CHOOSING BAKER HUGHES WIRELINE SERVICES
CREW: OLSON/PATTON/QUIGLEY
RIG: NABORS 574

BRIDGED OFF AT 2376', COMPANY MAN INSTRUCTED TO REMOVE BOWSPRING
RAN BACK IN HOLE, BRIDGED AGAIN AT 2376', POOH AND RAN WIPER TRIP

RUN 1 TRIP 2: HDIL ZDL CN RAN IN COMBINATION

BVOL CVOL CALCULATED IN CUBIC FT
CVOL CALCULATED USING PROPOSED 4.5" CASING
CALIPER VERIFIED INSIDE CASING

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

CN MATRIX: SANDSTONE
CN RAN DECENTRALIZED

HDIL RAN WITH 1.5" STANDOFFS
ABC TO CALCULATE MUD CONDUCTIVITY

THANK YOU FOR CHOOSING BAKER HUGHES WIRELINE SERVICES
CREW: OLSON/PATTON/QUIGLEY
RIG: NABORS 574

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	SWIVEL	3950XA	10102176	FREE
1	1	TTMA	3980XA	10120299	FREE
1	1	TEL/GR	3518EB/3518EG	10127973/10137522	DECENTRALIZED
1	1	CN	2436XA	10137930	DECENTRALIZED
1	1	ZDL	2223XA	10102922	DECENTRALIZED
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: 5

Plotted: Mon May 19 14:27:48 2014

PARAMETER AND FILTER SUMMARY REPORT

File: /dat1a/86223J/n970a03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 1076.750 ft BOTTOM DEPTH: 6910.584 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)		"	"
SP-SPDH	FILTER ()	heavy (3)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
BIT SIZE	BIT SIZE	8.750	in	TOP	BOTTOM
BOREHOLE CORP DIAMETER COURSE	CALIPER/FIXED DIA. (in/ft)	USE CALIPER		"	"

BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	8.750	in	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	64.0	degF	"	"
	MUD SAMPLE RES	1.650	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	64.0	degF	"	"
	at BH REF DEPTH	0.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"

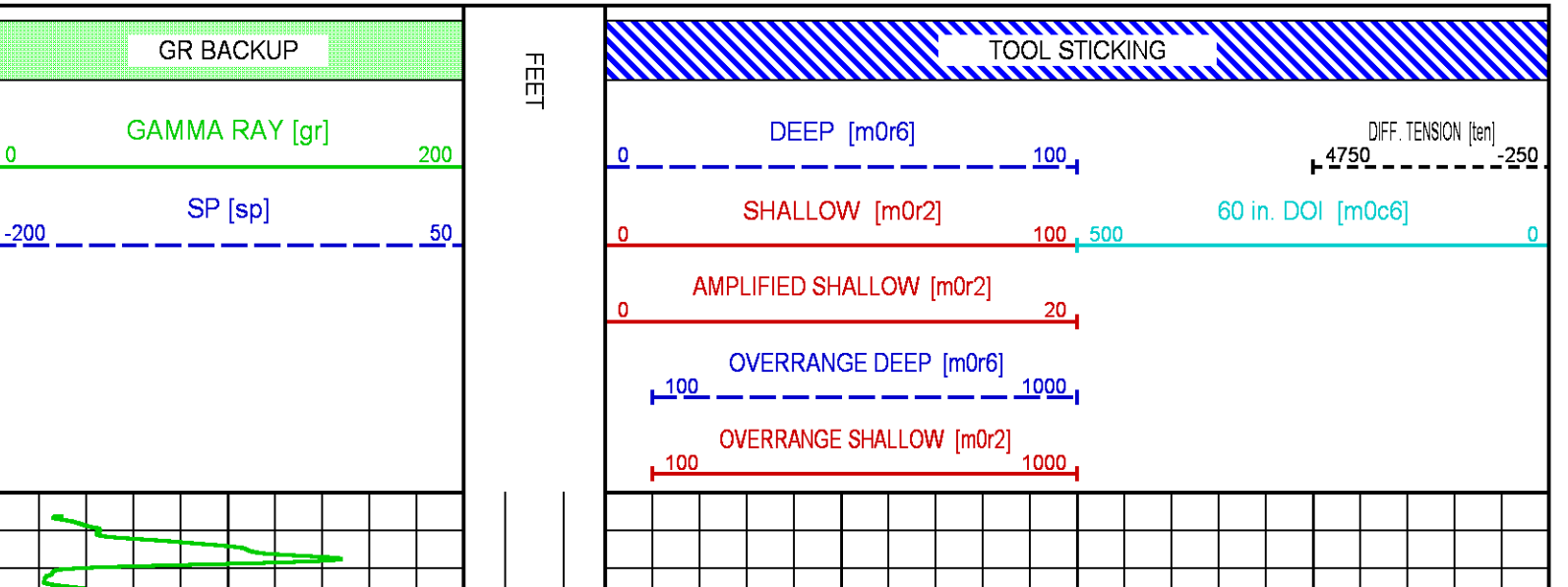
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MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION ON		TOP	BOTTOM

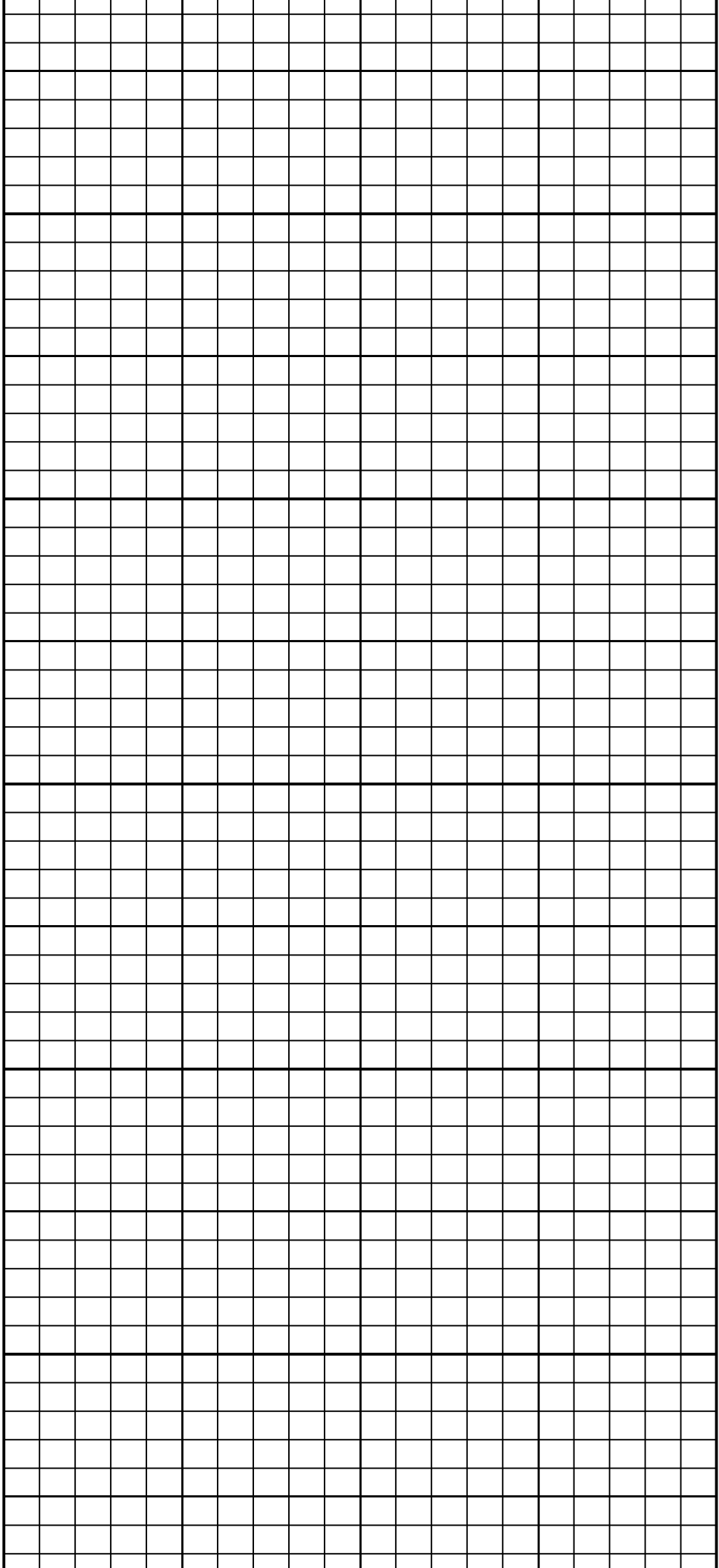
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MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
HDIL TEMPERATURE CORRECTION	TEMP CORRECTION	ON		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	MUD CONDUCTIVITY		"	"
	STANDOFF	1.50	in	"	"
	TOOL POSITION	ECCENTERED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

CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:GR	May 19 11:37:06 2014	GAMMA RAY
F1:M0C6	May 19 11:37:06 2014	FOCUSED CONDUCTIVITY, 60-INCH DOI
F1:M0R2	May 19 11:37:06 2014	TRUE FOCUSED RESISTIVITY FOR HDIL, 20-INCH DOI
F1:M0R6	May 19 11:37:06 2014	TRUE FOCUSED RESISTIVITY FOR HDIL, 60-INCH DOI
F1:SP	May 19 11:37:06 2014	SPONTANEOUS POTENTIAL
F1:TEN	May 19 11:37:06 2014	DIFFERENTIAL TENSION

CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
GR	35.00	M0R2	2.75	SP	1.25		
M0C6	2.75	M0R6	2.75	TEN	0.00		

Presentation	: cas6685:/dat1a/86223J/WPX_2IN.fvpdf [2"/100' Scale]
Plot Interval	: 6.25 - 6915.25 Feet
Data File 1	: F1 : cas6685:/dat1a/86223J/n970a03-MAIN.xtf
Created On	: May 19 11:37:06 2014
Company	: WPX ENERGY ROCKY MTN LLC
Well	: PA 313-6
Field	: RULISON
File Interval	: 6.25 - 6915.25 Feet
OCT	: n970a





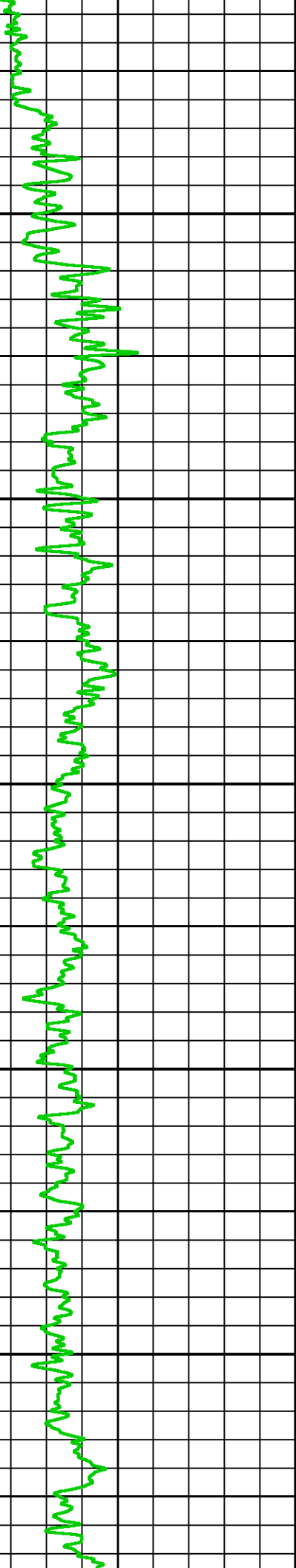
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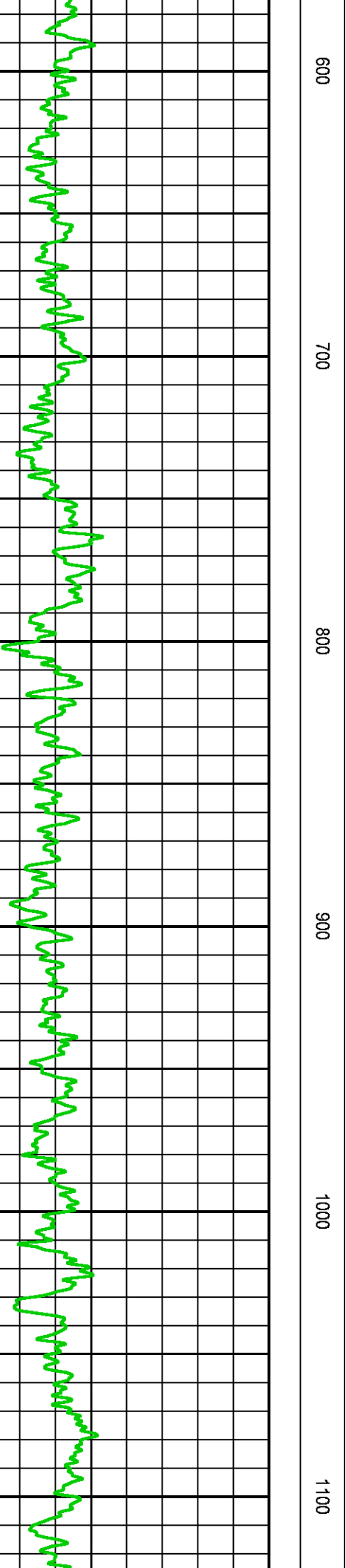
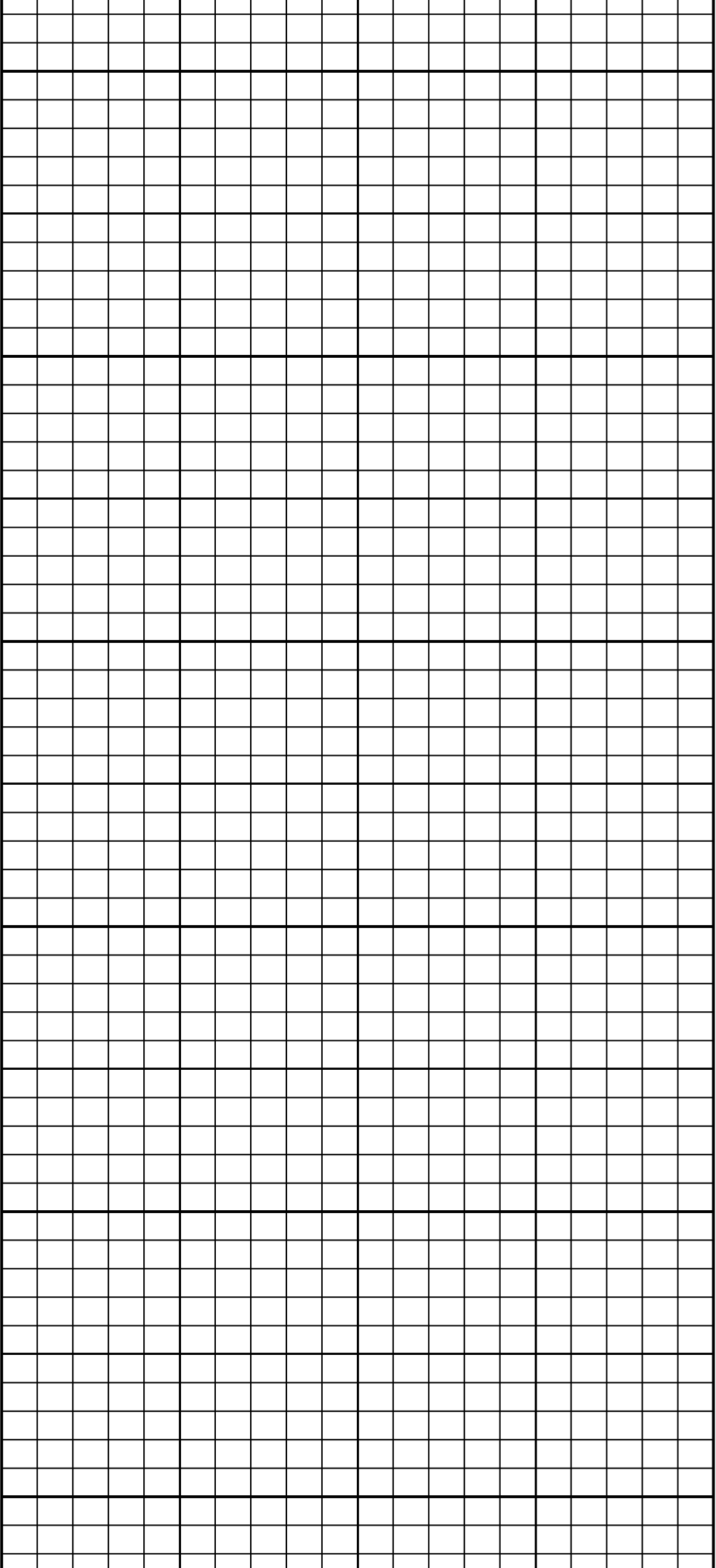
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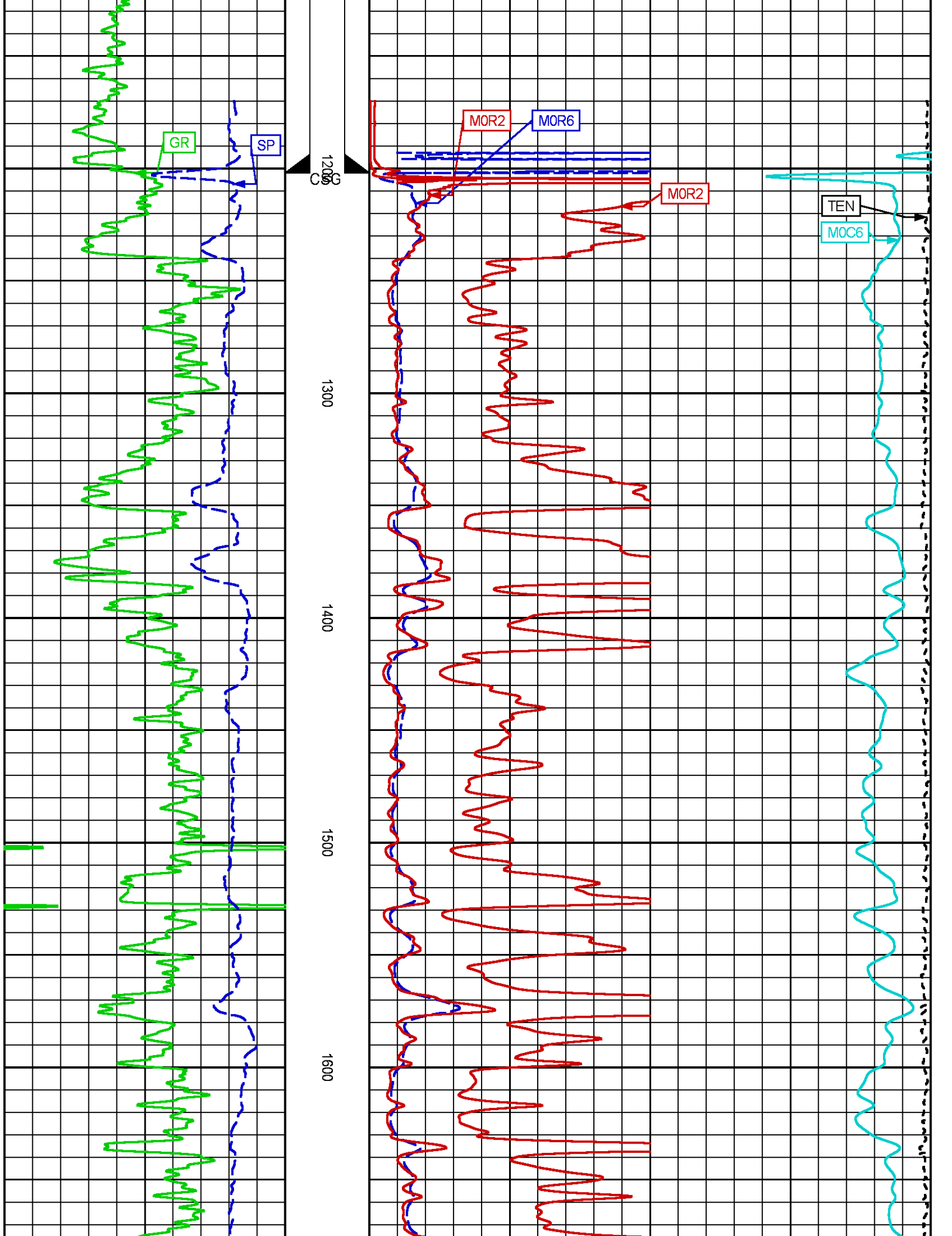
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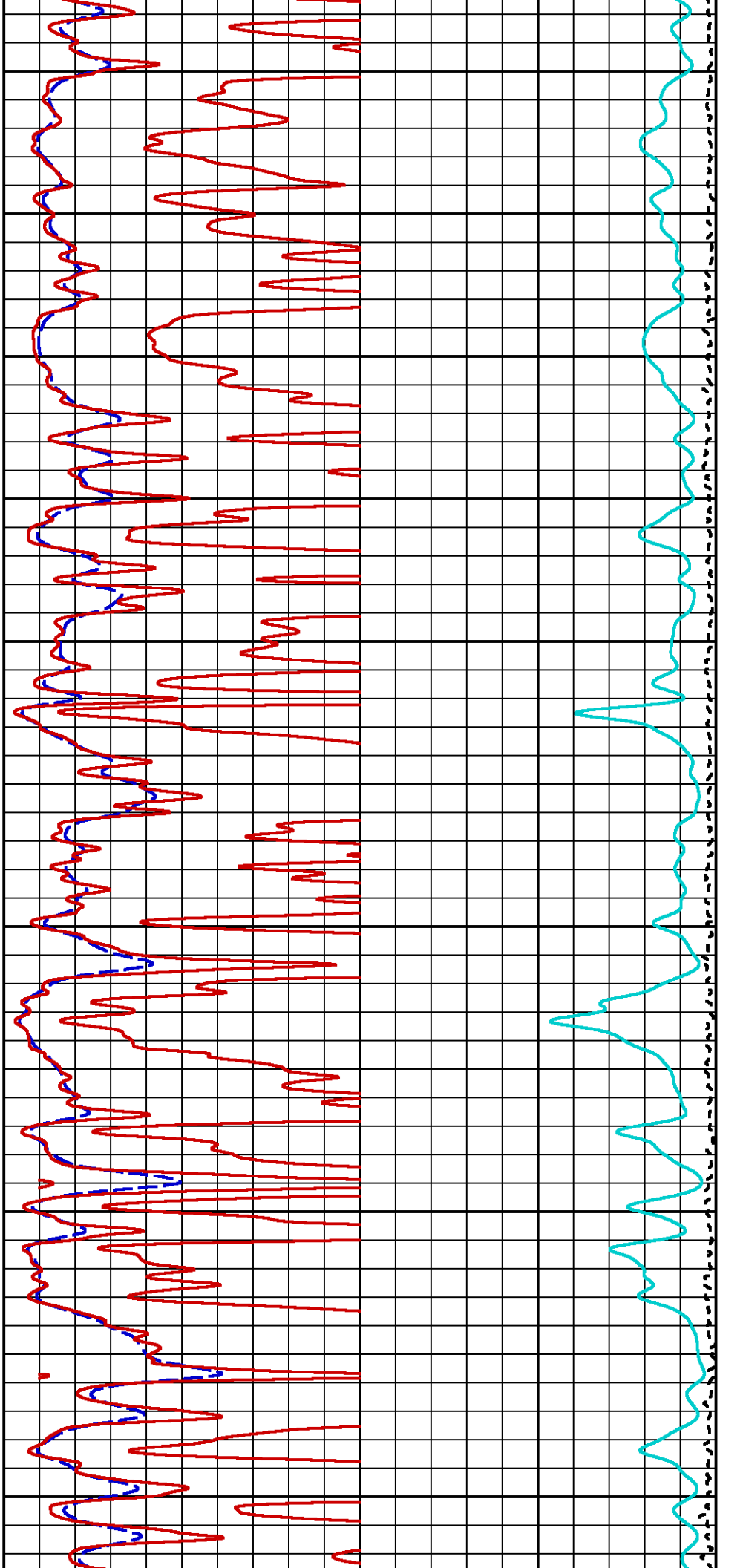
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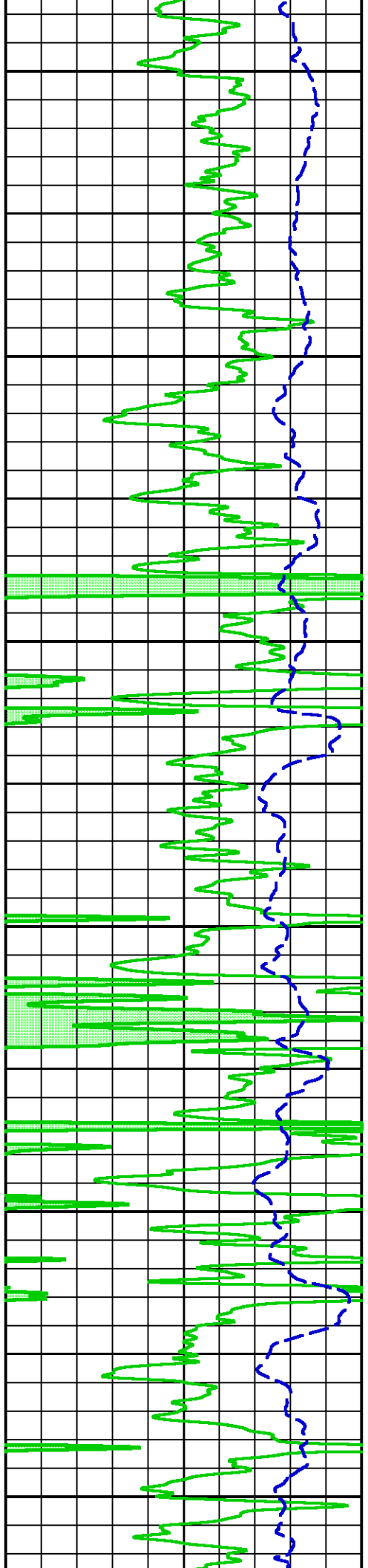


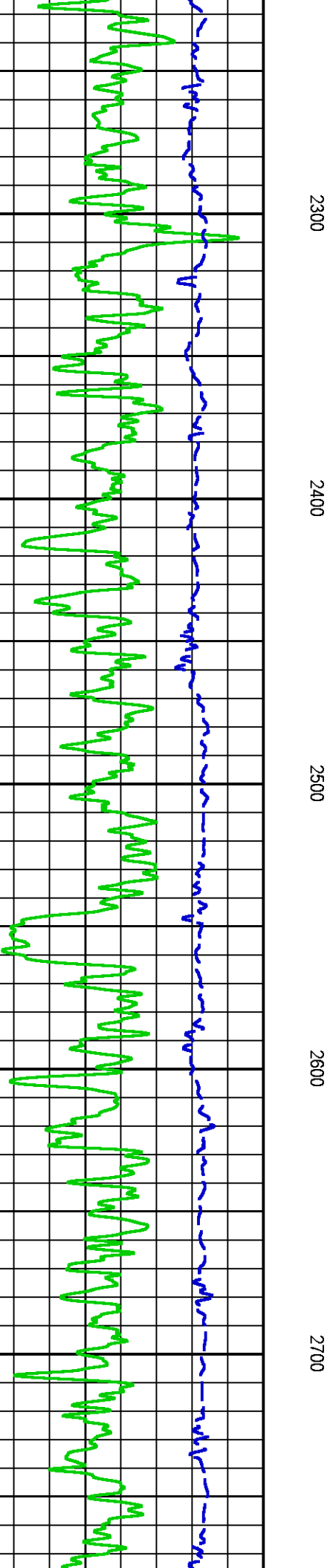
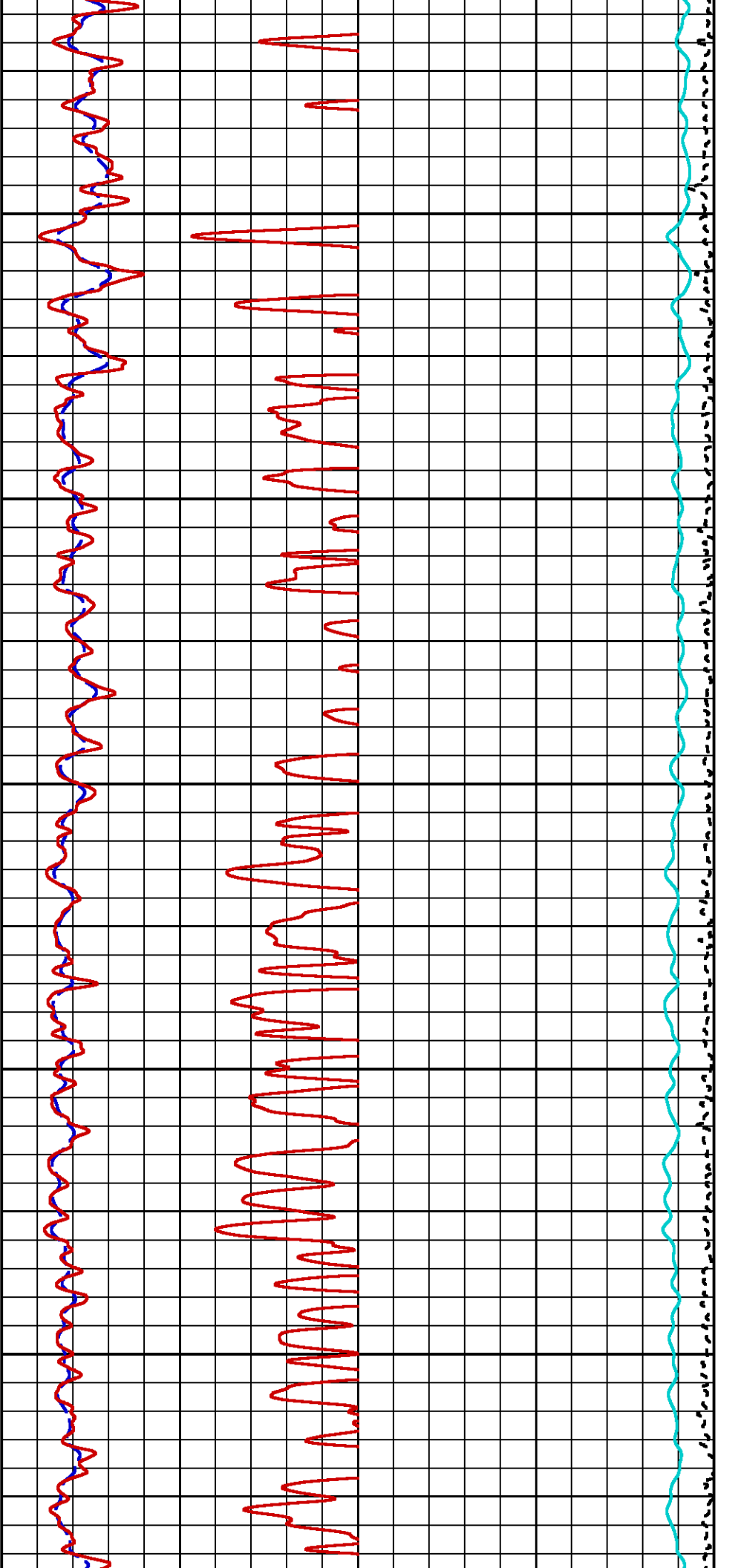


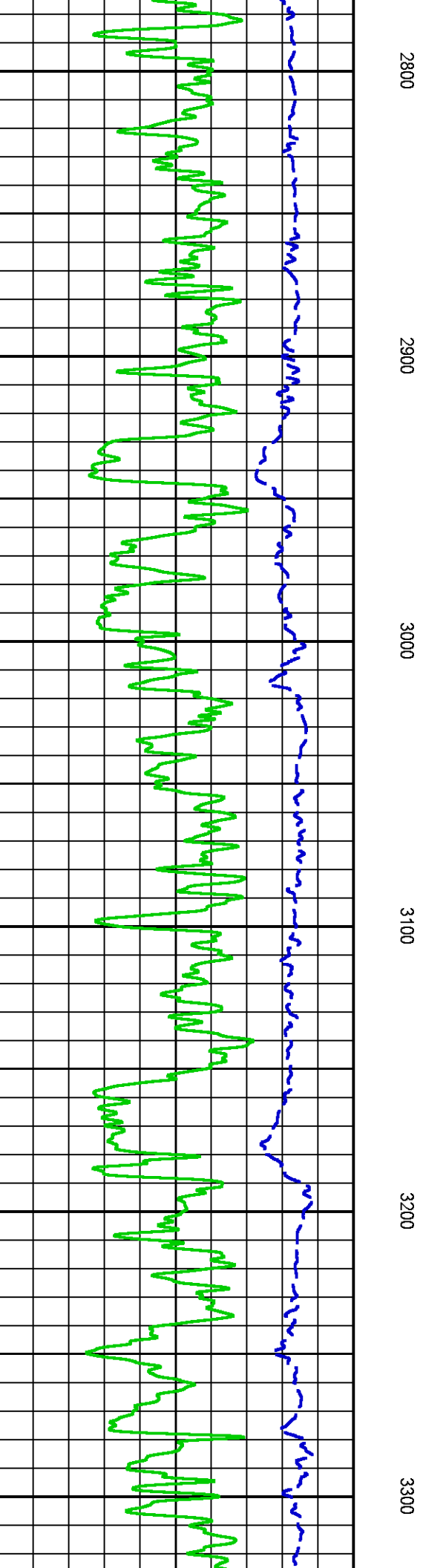
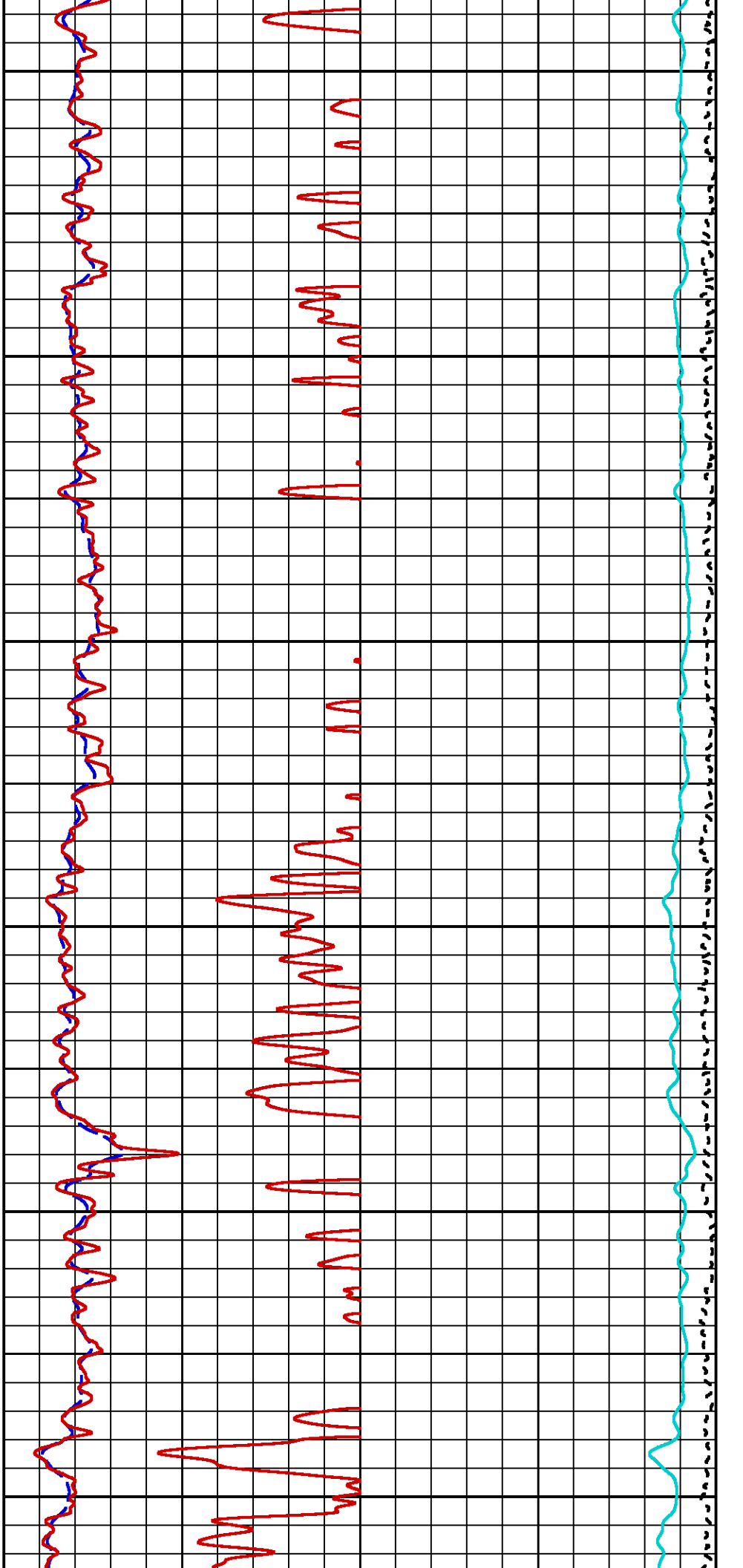


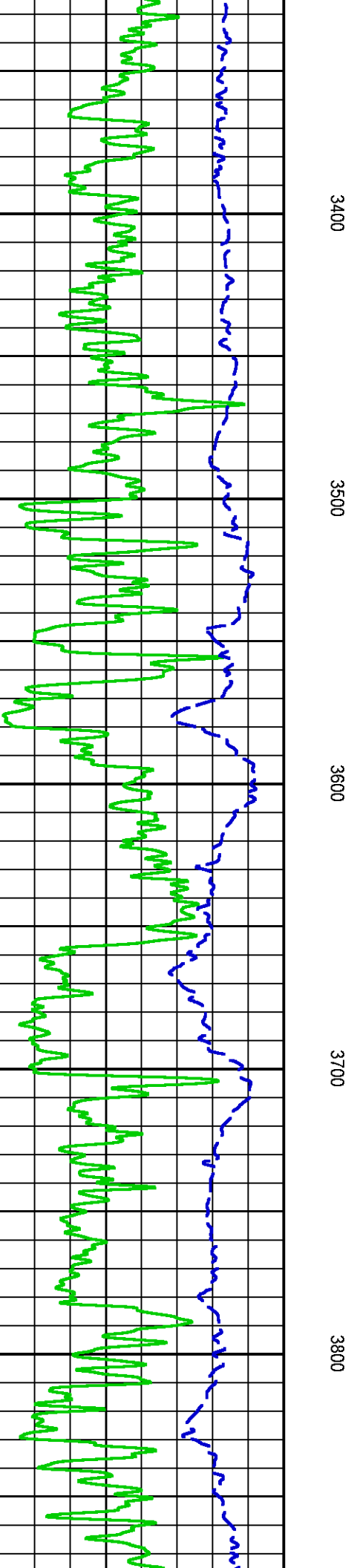
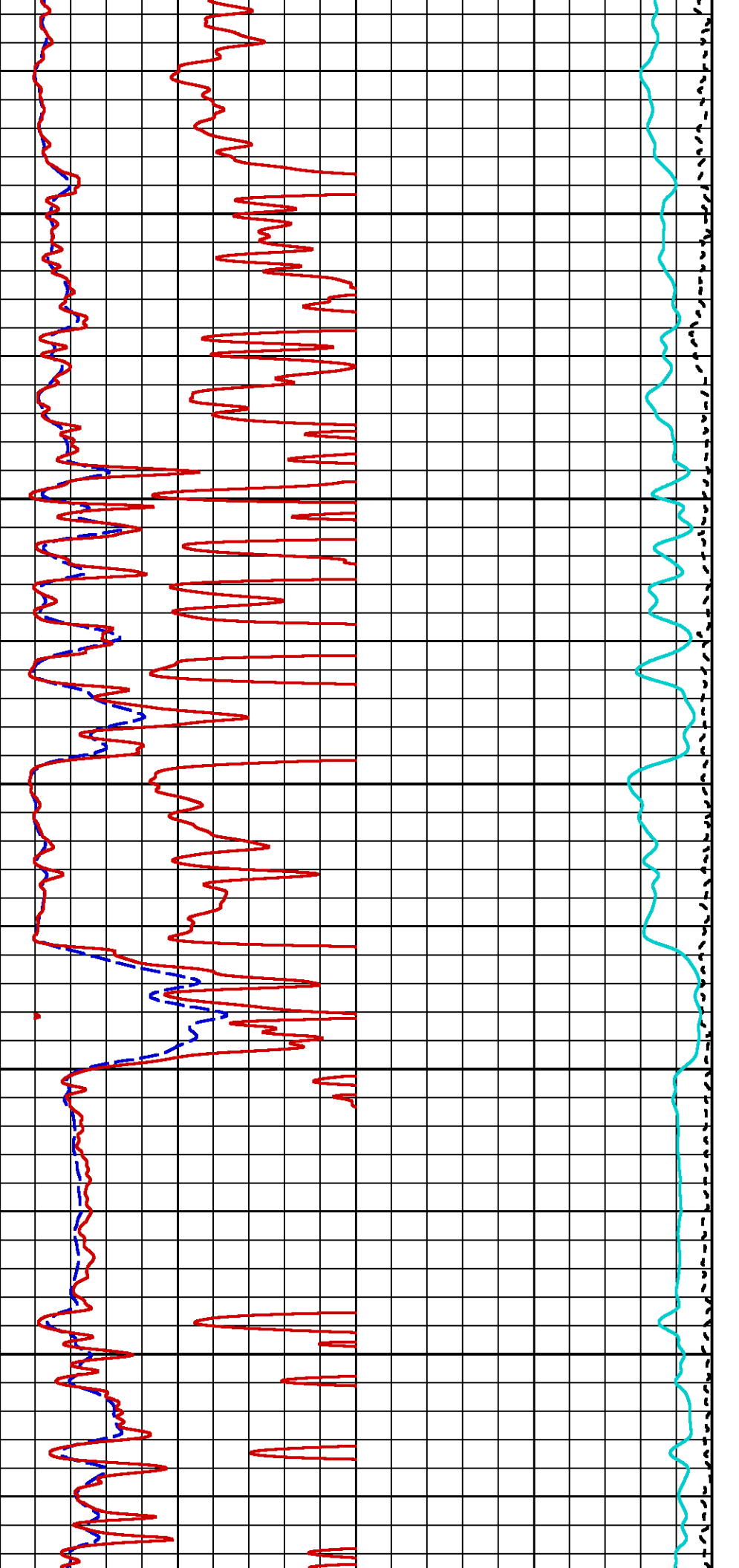


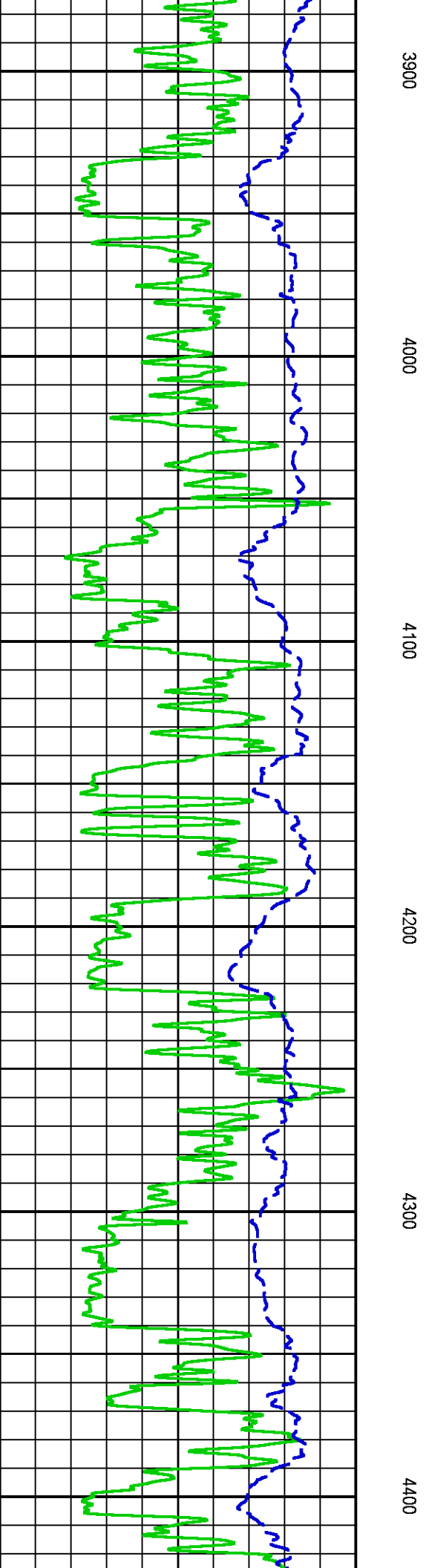
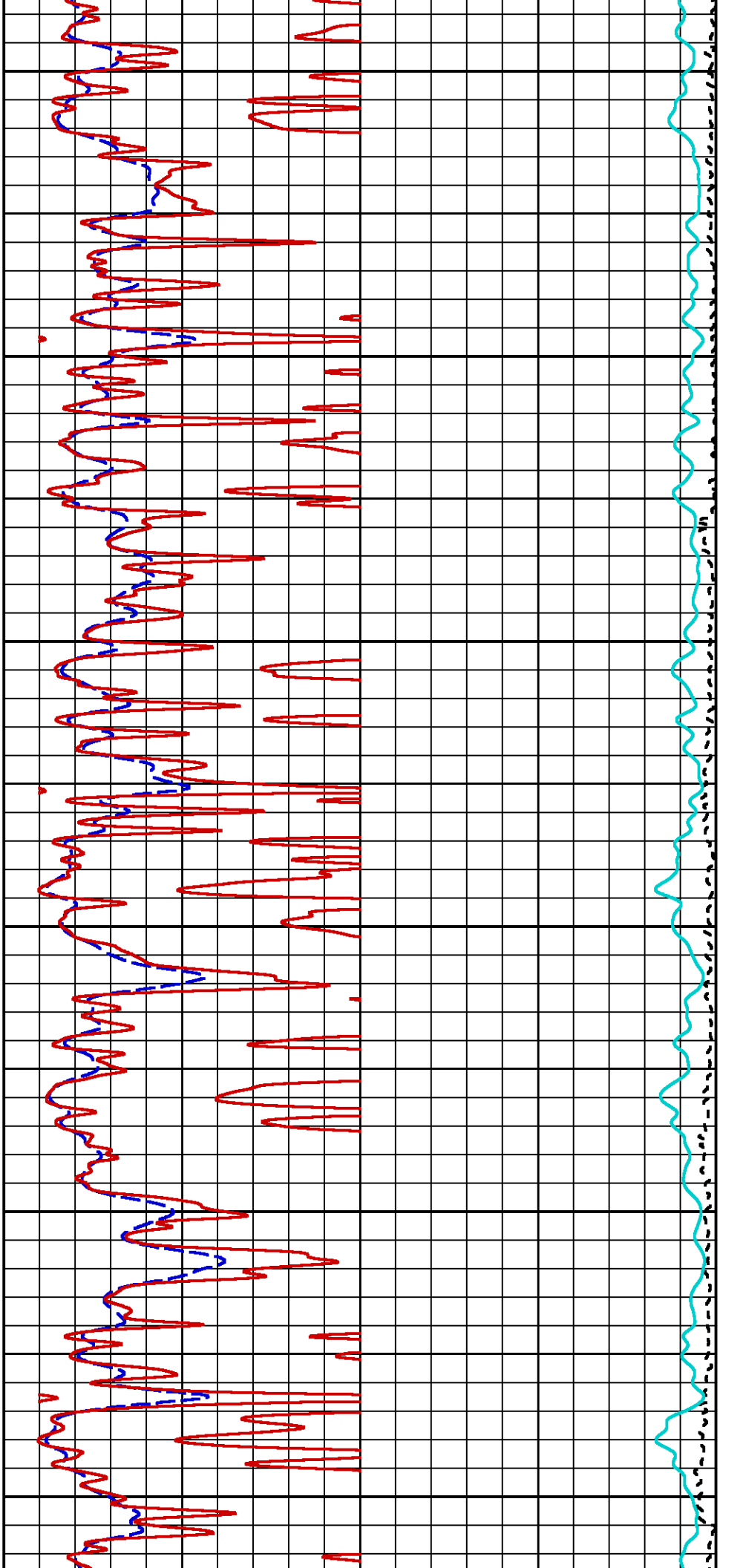
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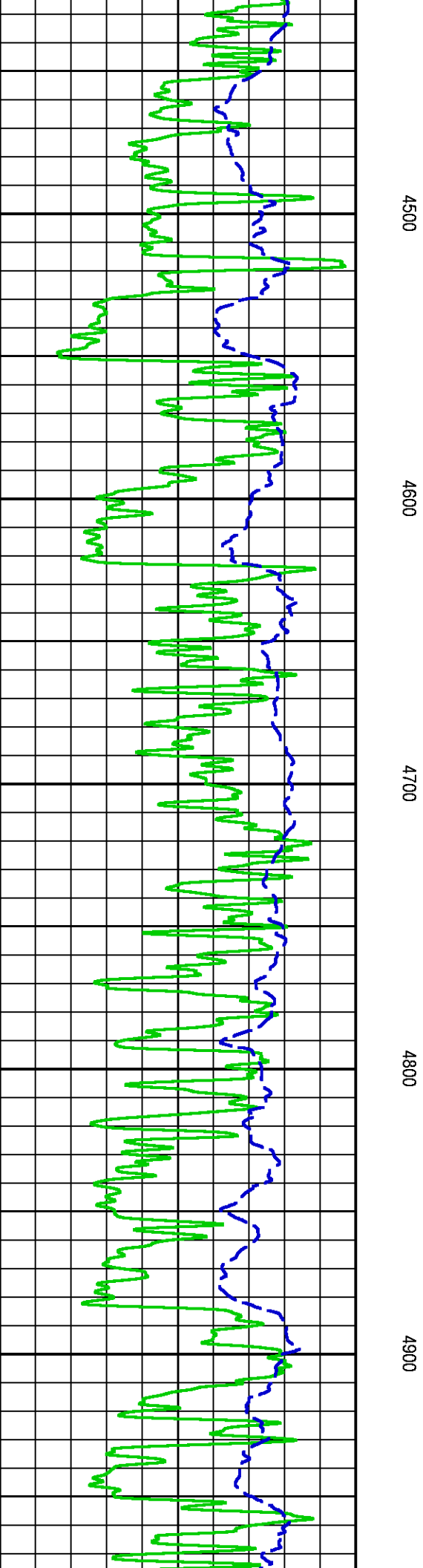
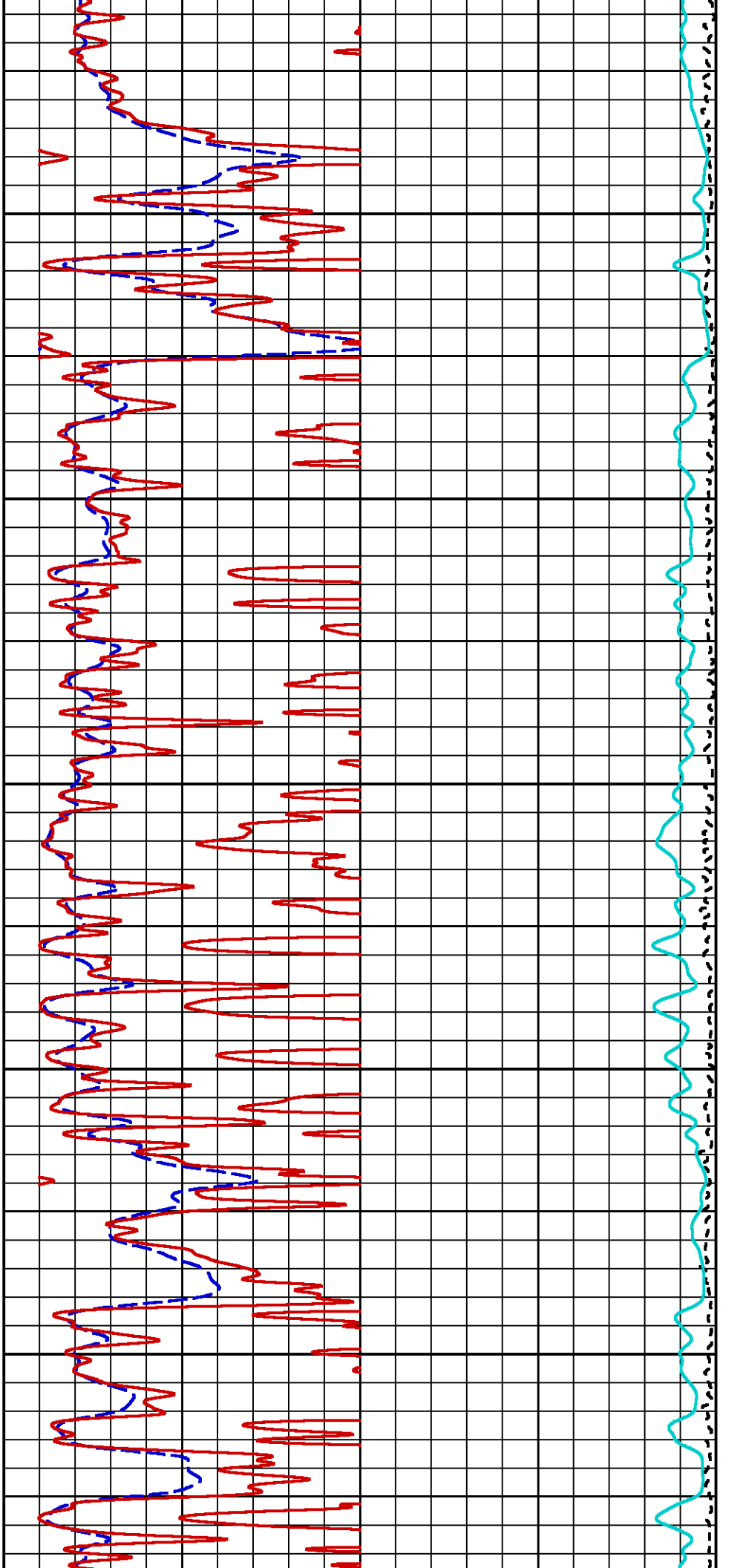


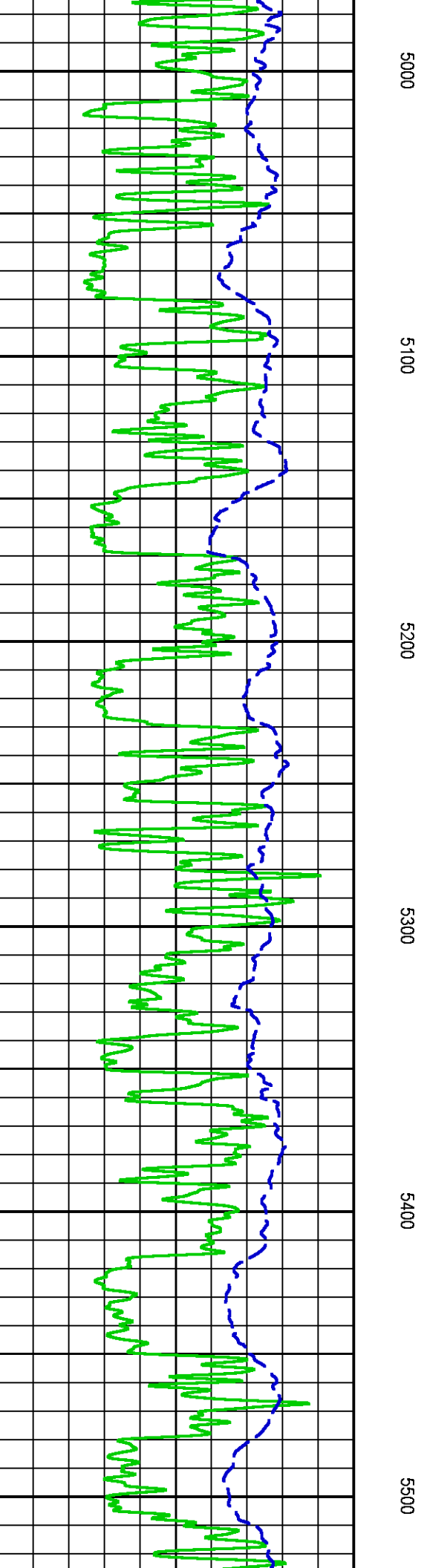
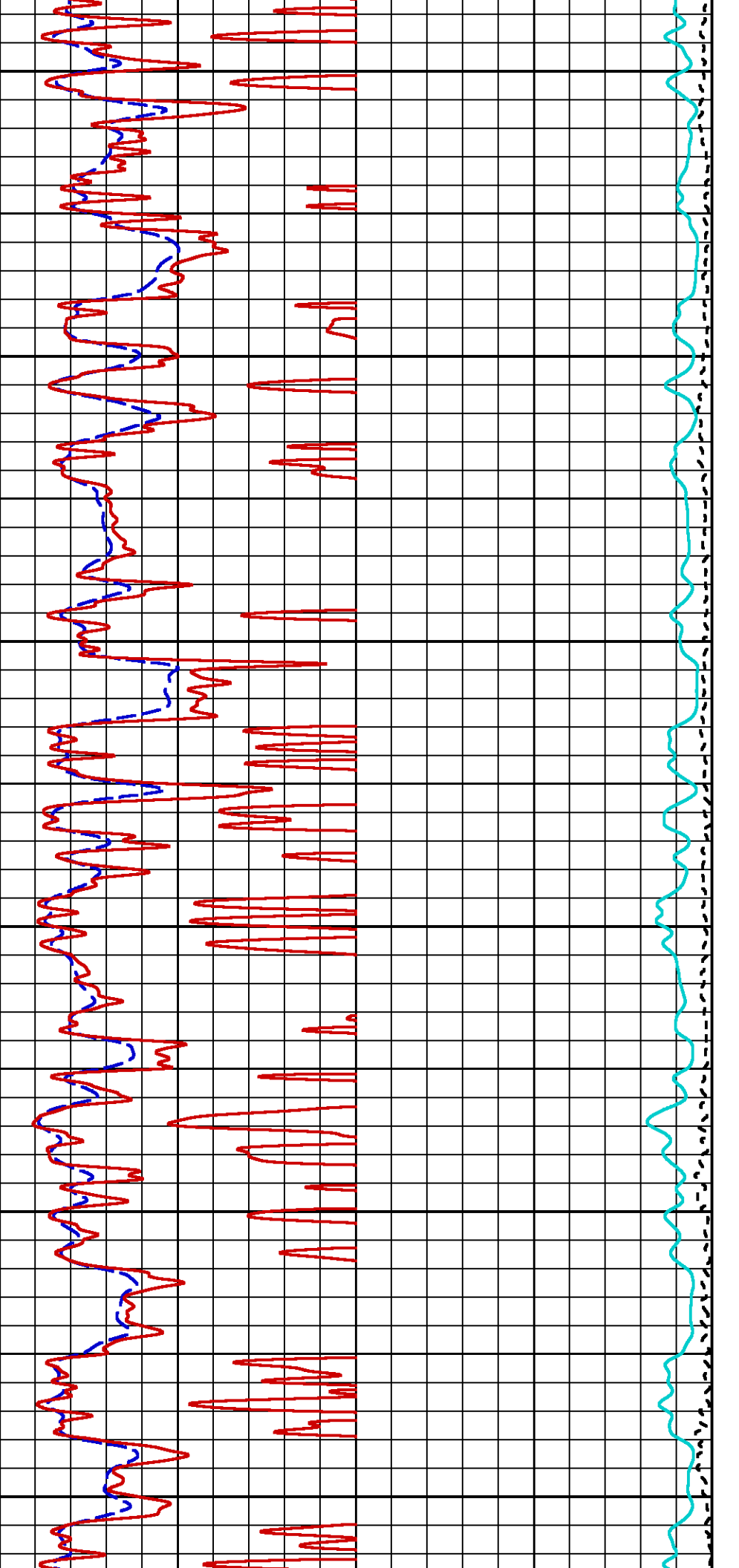


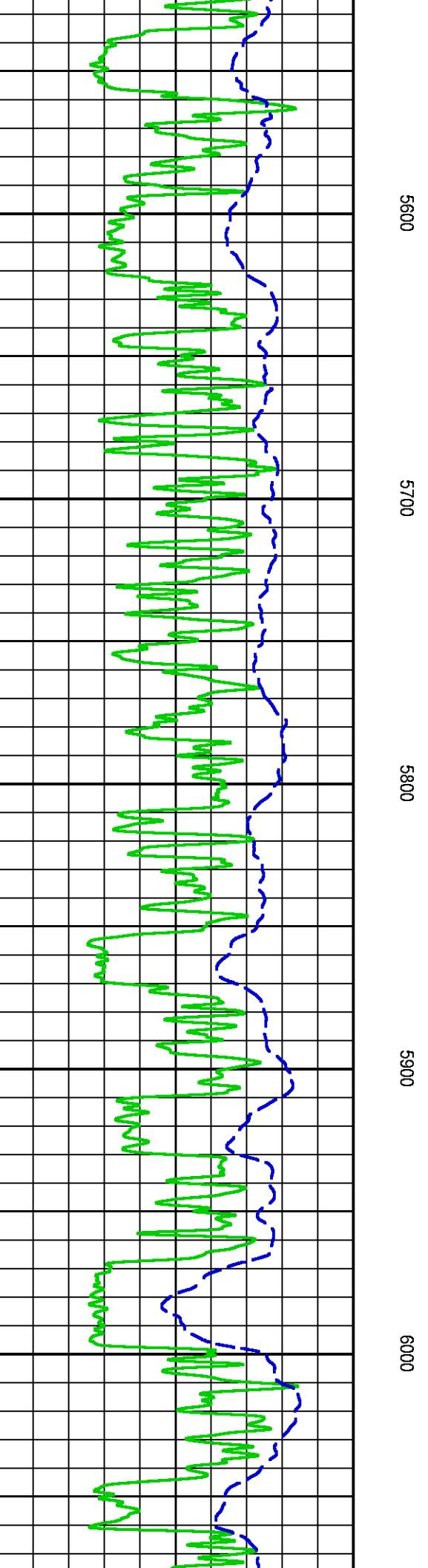
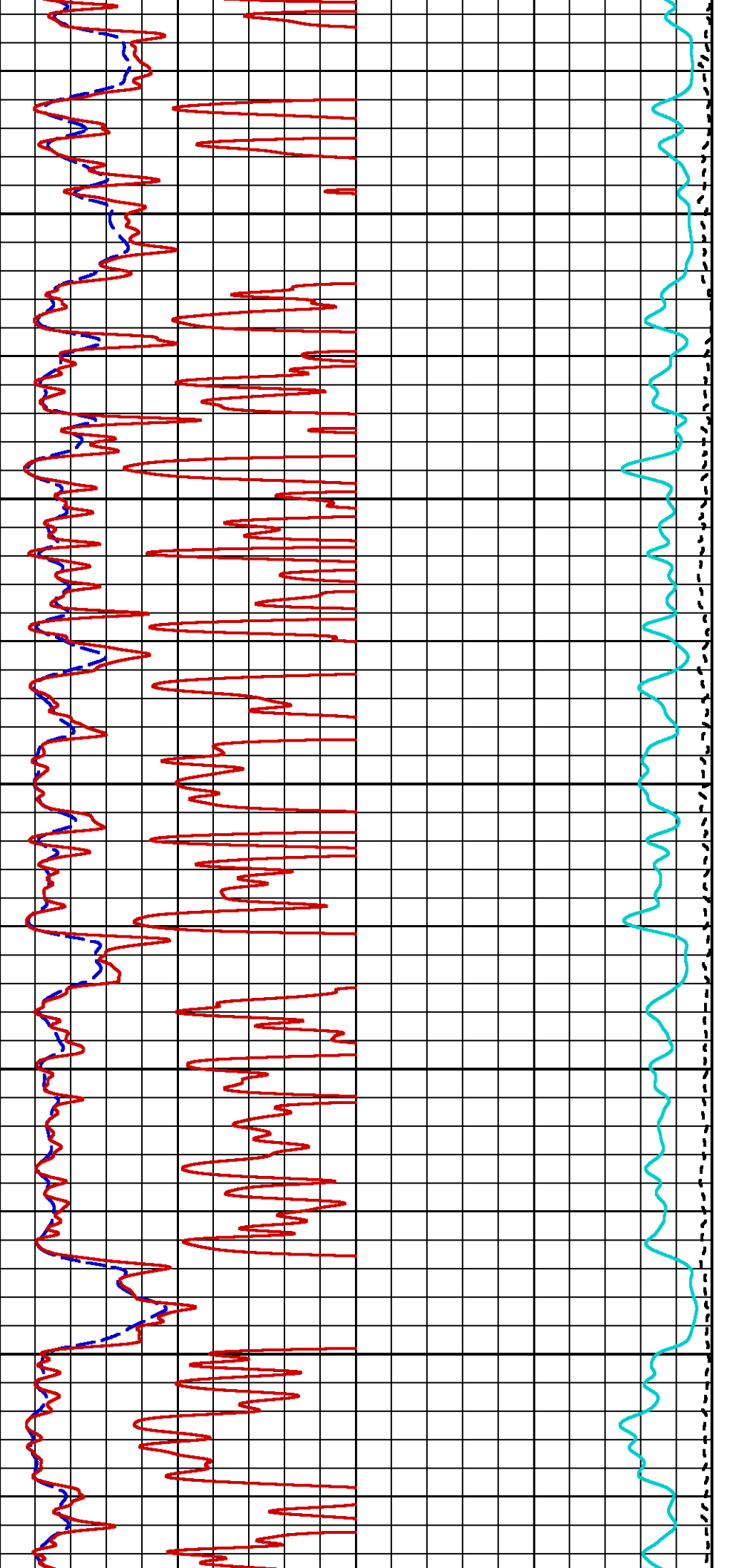


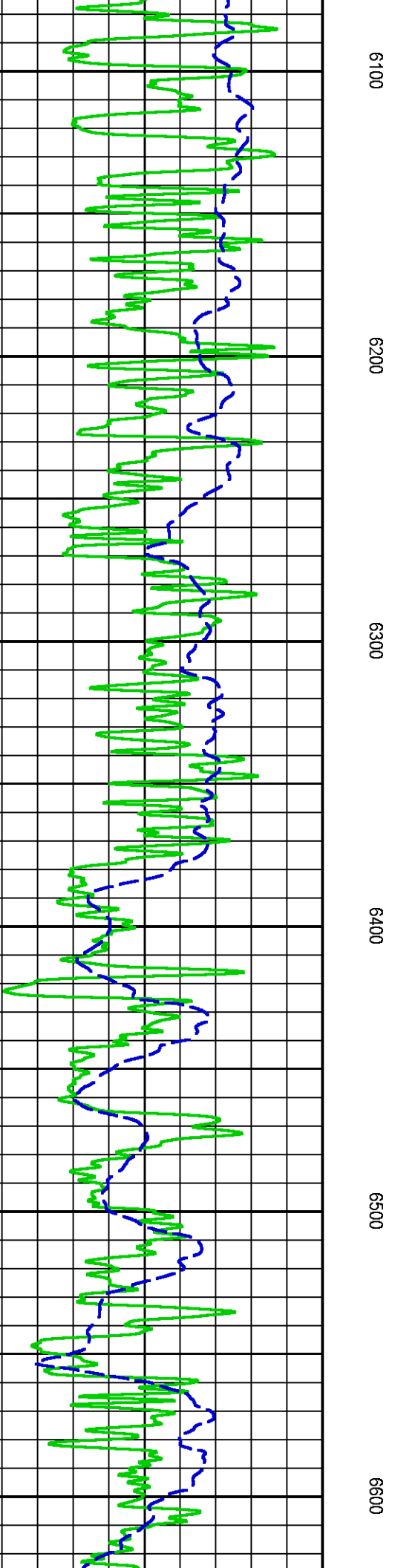
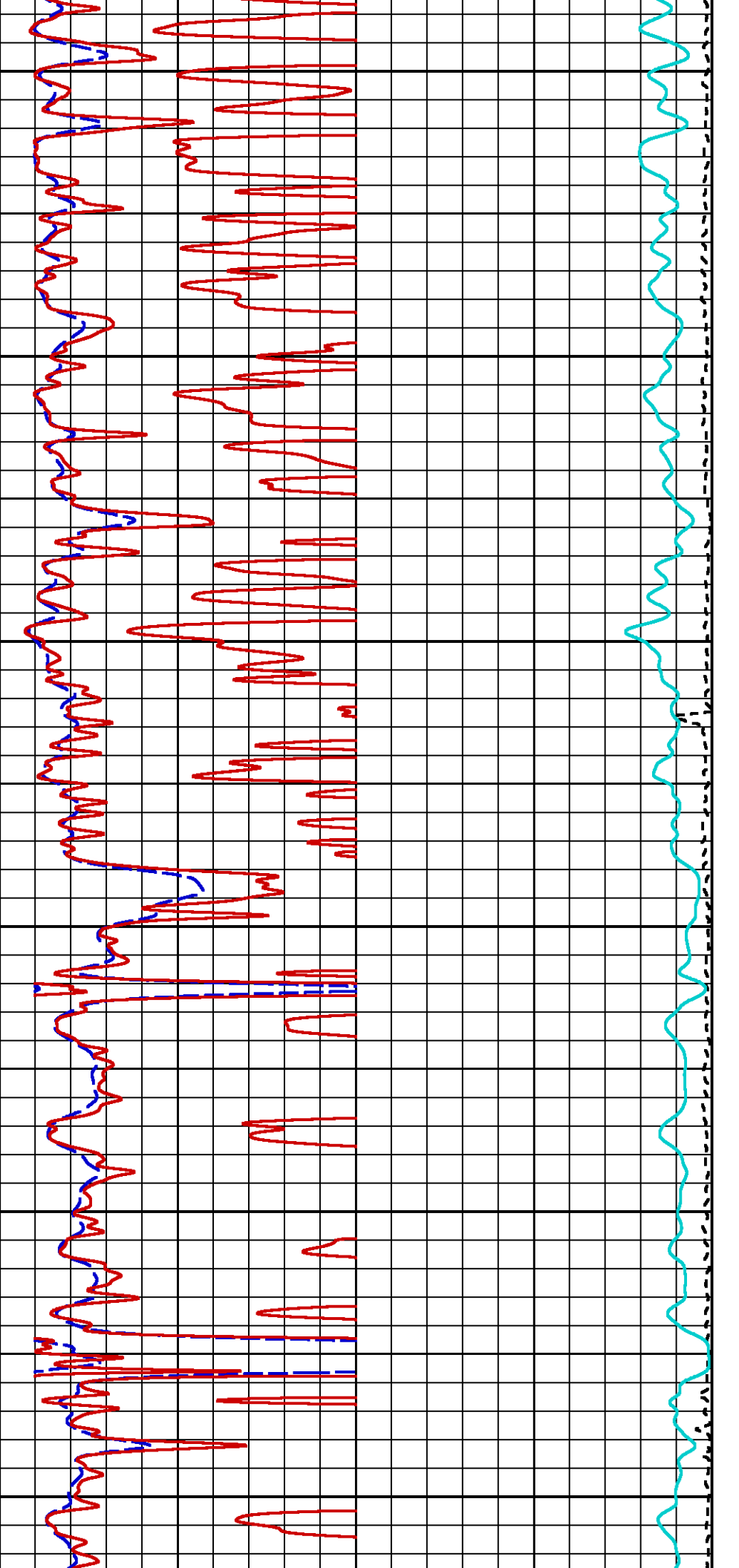


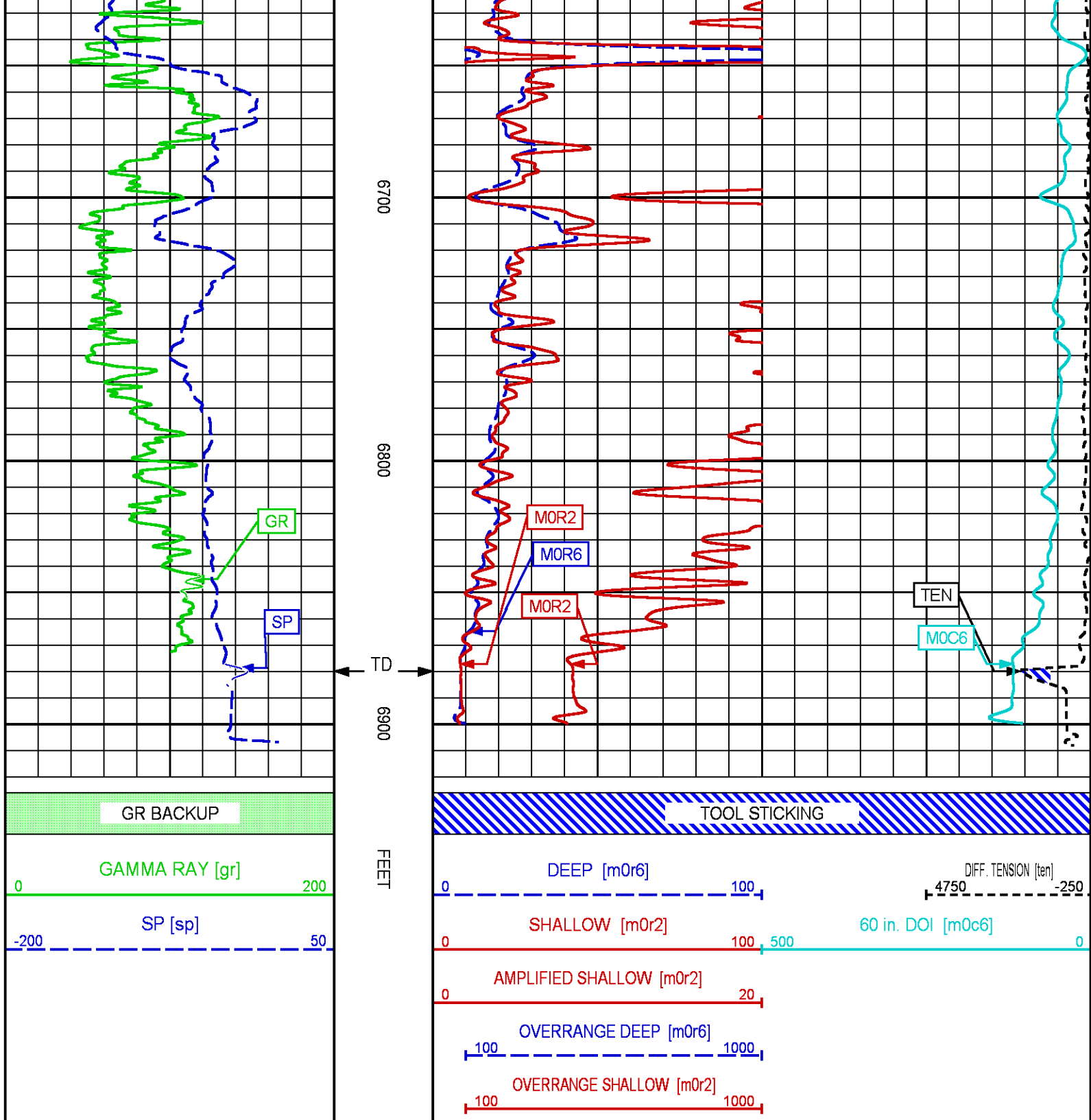












MAIN LOG 5"/100FT SCALE

PARAMETER AND FILTER SUMMARY REPORT					
<div> <div>File: /dat1a/86223J/n970a03.prm</div> <div> <div>LOGGING MODE: DEPTH</div> <div>DIRECTION: UP</div> </div> <div> <div>TOP DEPTH: 1076.750 ft</div> <div>BOTTOM DEPTH: 6910.584 ft</div> </div> </div>					
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					
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	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	64.0	degF	"	"
	MUD SAMPLE RES	1.650	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	64.0	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

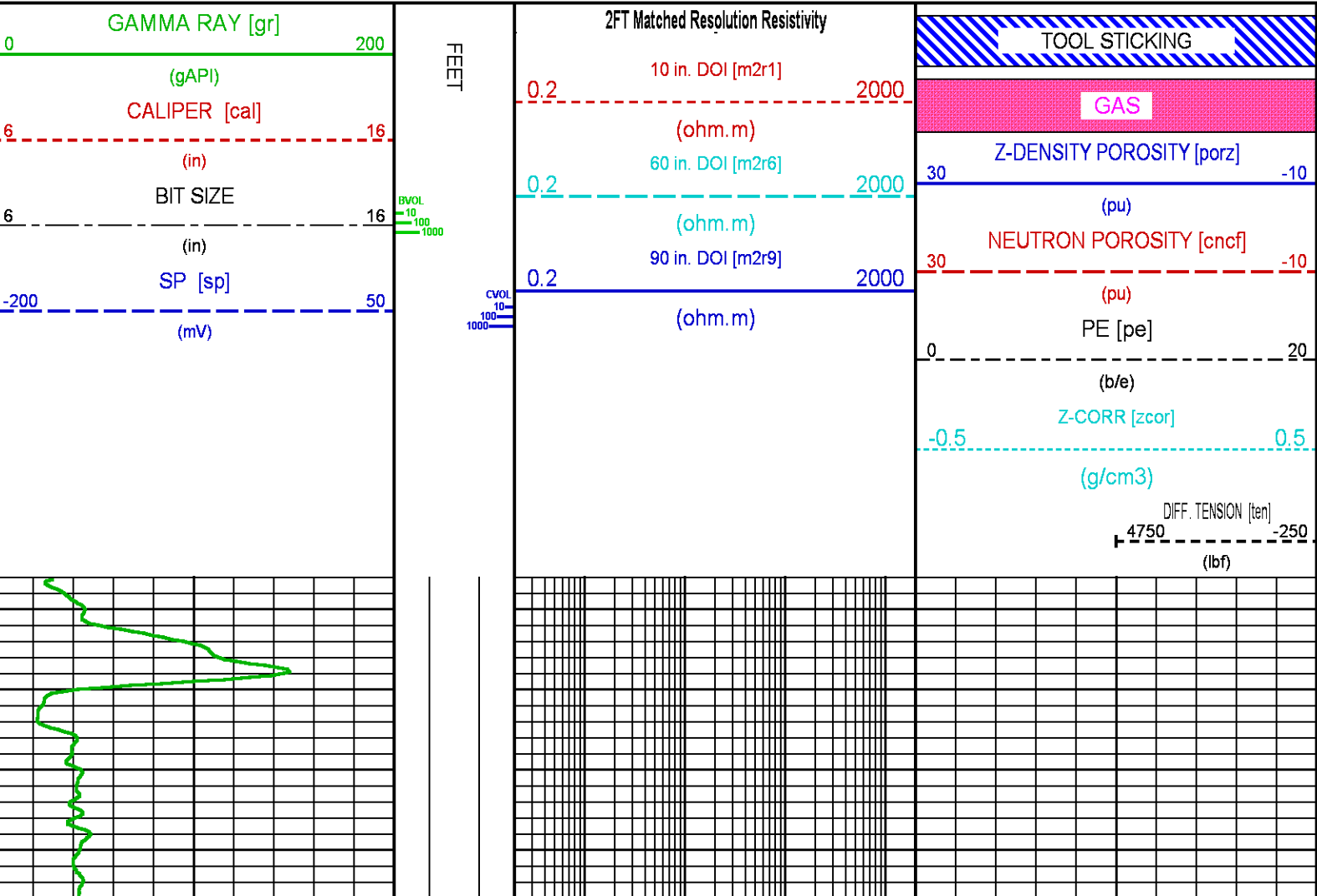
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	May 19 11:37:06 2014	BIT SIZE
F1:BVOL	May 19 11:37:06 2014	BOREHOLE VOLUME
F1:CAL	May 19 11:37:06 2014	CALIPER
F1:CNCF	May 19 11:37:06 2014	FIELD NORMALIZED COMPENSATED NEUTRON POROSITY
F1:CVOL	May 19 11:37:06 2014	CEMENT VOLUME
F1:GR	May 19 11:37:06 2014	GAMMA RAY
F1:M2R1	May 19 11:37:06 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI
F1:M2R6	May 19 11:37:06 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	May 19 11:37:06 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:PE	May 19 11:37:06 2014	PHOTO ELECTRIC CROSS-SECTION
F1:PORZ	May 19 11:37:06 2014	POROSITY FOR SELECTABLE MATRIX
F1:SP	May 19 11:37:06 2014	SPONTANEOUS POTENTIAL
F1:TEN	May 19 11:37:06 2014	DIFFERENTIAL TENSION
F1:ZCOR	May 19 11:37:06 2014	DENSITY CORRECTION

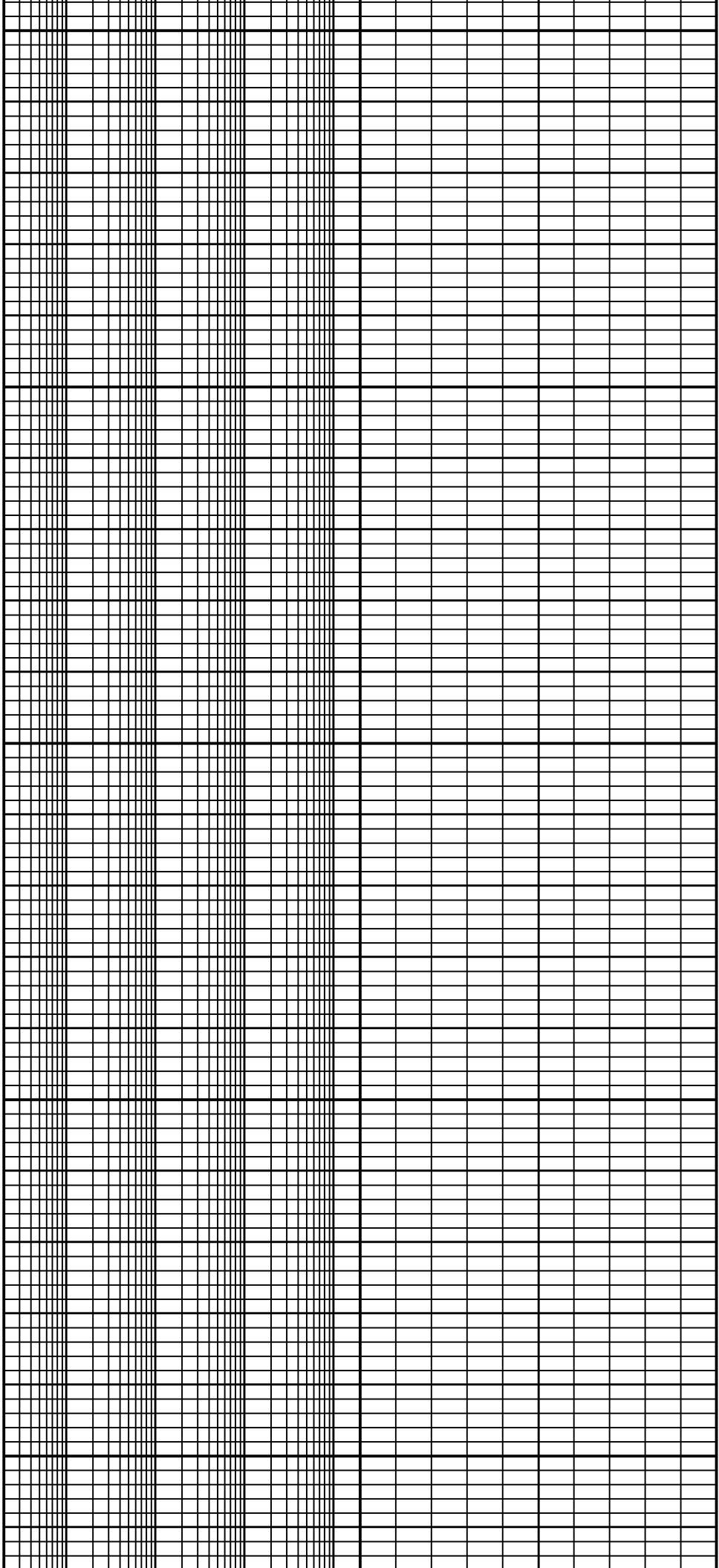
CURVE MEASURE POINT OFFSET

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 : cas6685:/dat1a/86223J/WPX_MAIN.fvpdf [5"/100" Scale]
Plot Interval : 6.25 - 6915.25 Feet

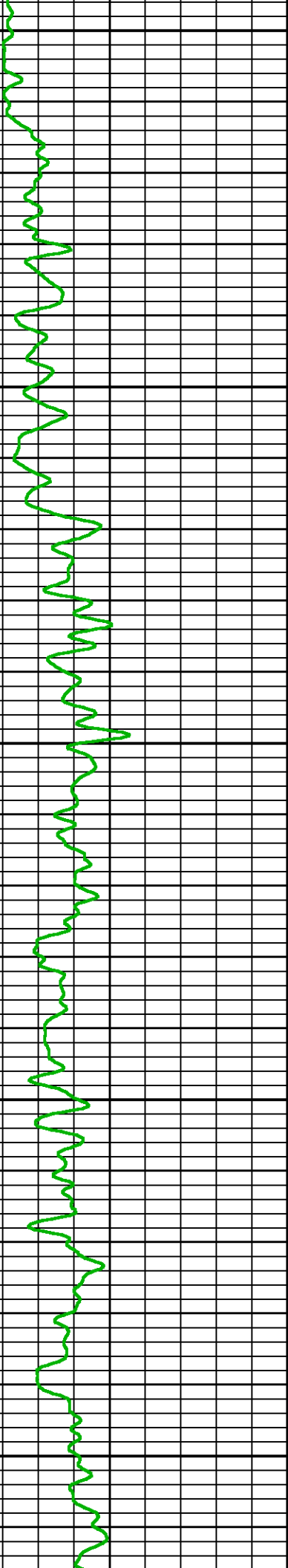
Data File 1 : F1 : cas6685:/dat1a/86223J/n970a03-MAIN.xtf
Created On : May 19 11:37:06 2014
Company : WPX ENERGY ROCKY MTN LLC
Well : PA 313-6
Field : RULISON
File Interval : 6.25 - 6915.25 Feet
OCT : n970a

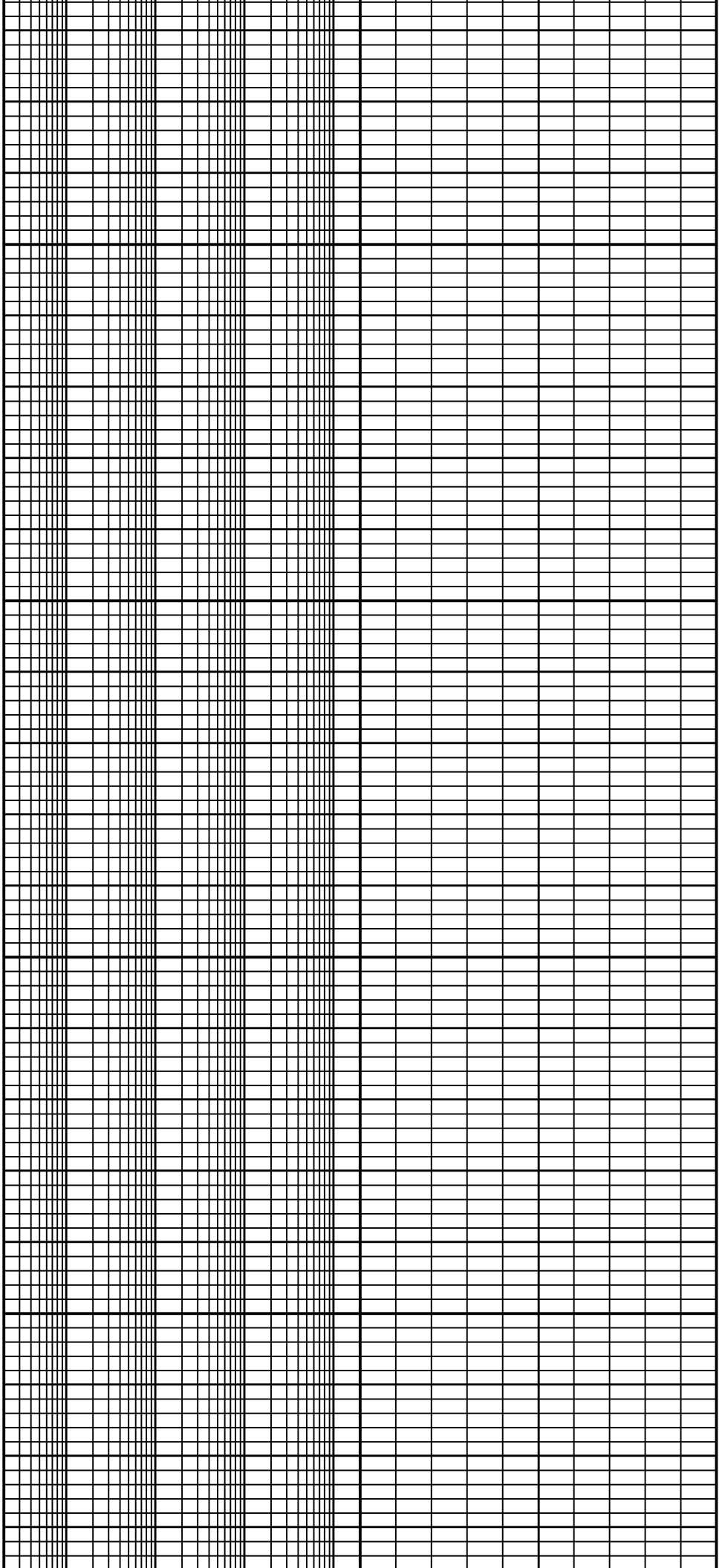




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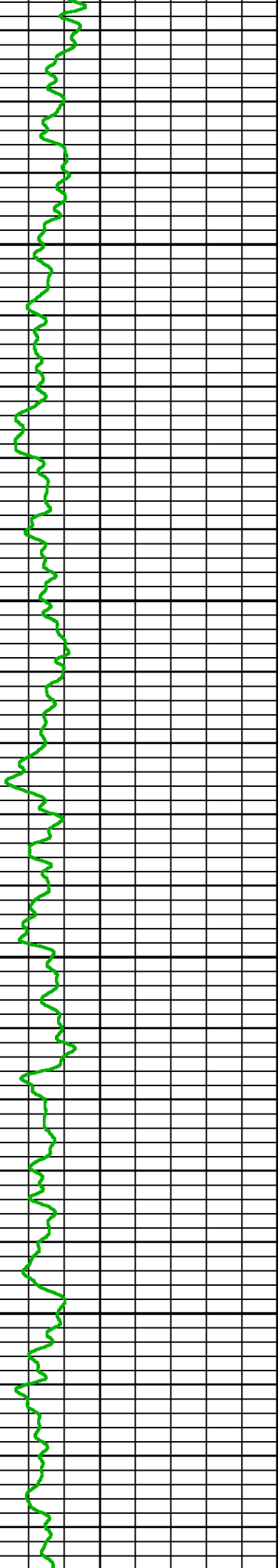
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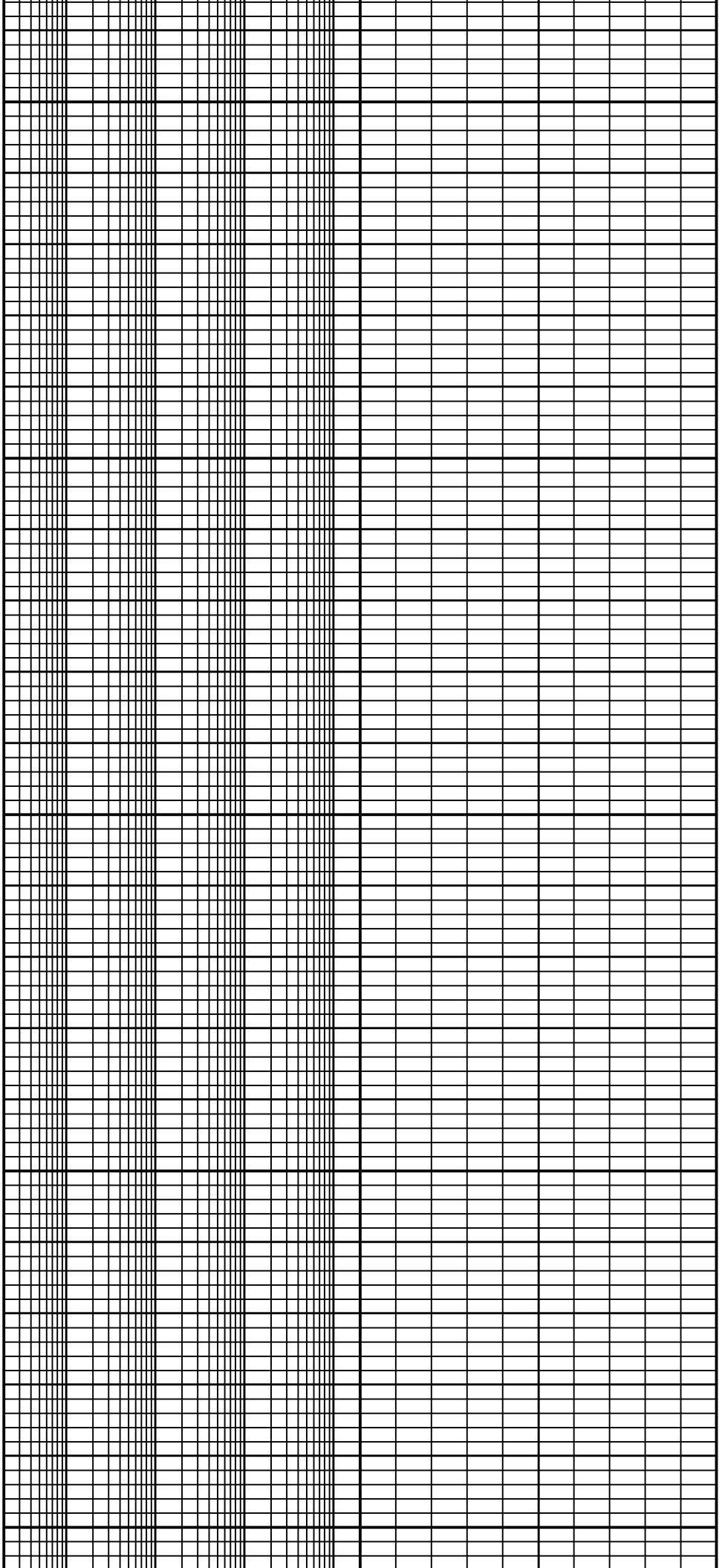




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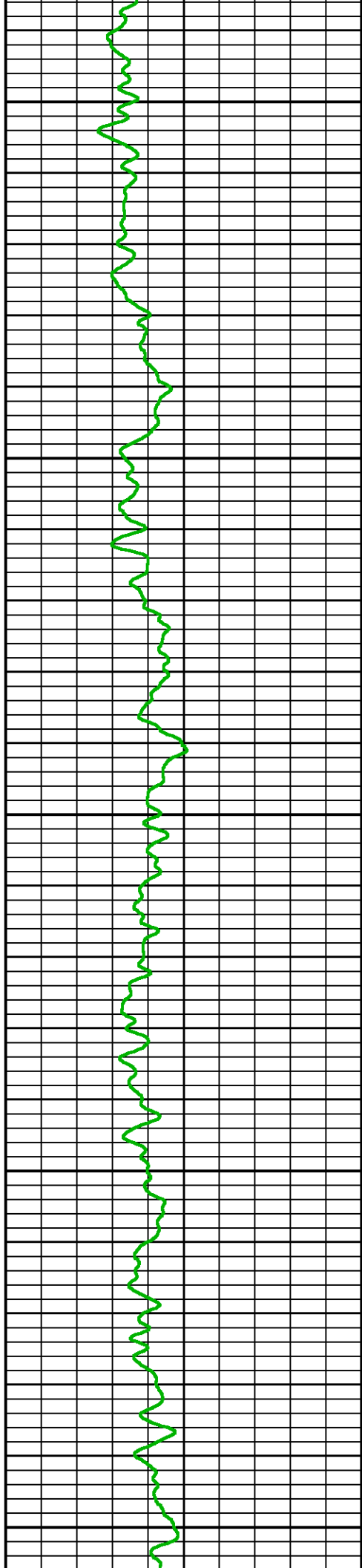


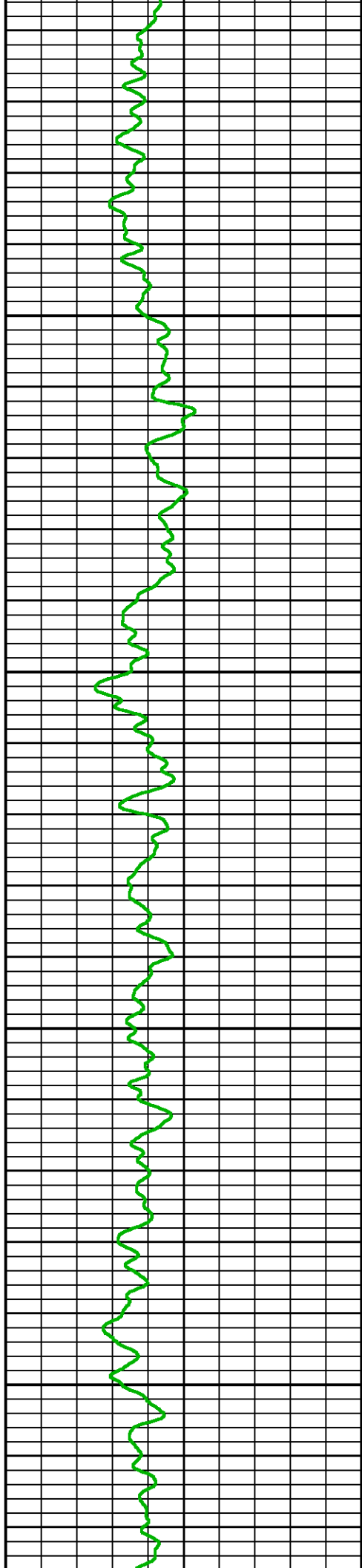


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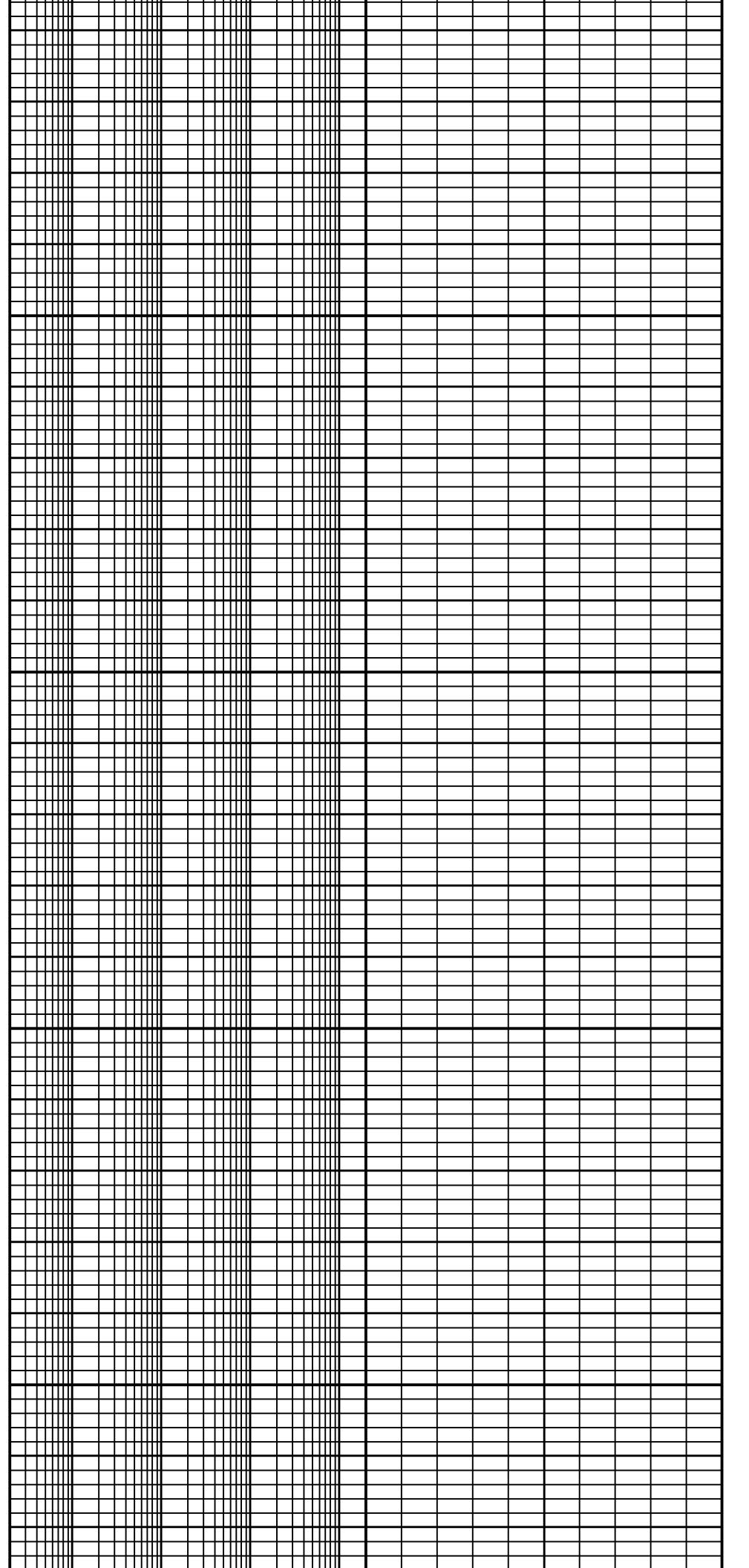
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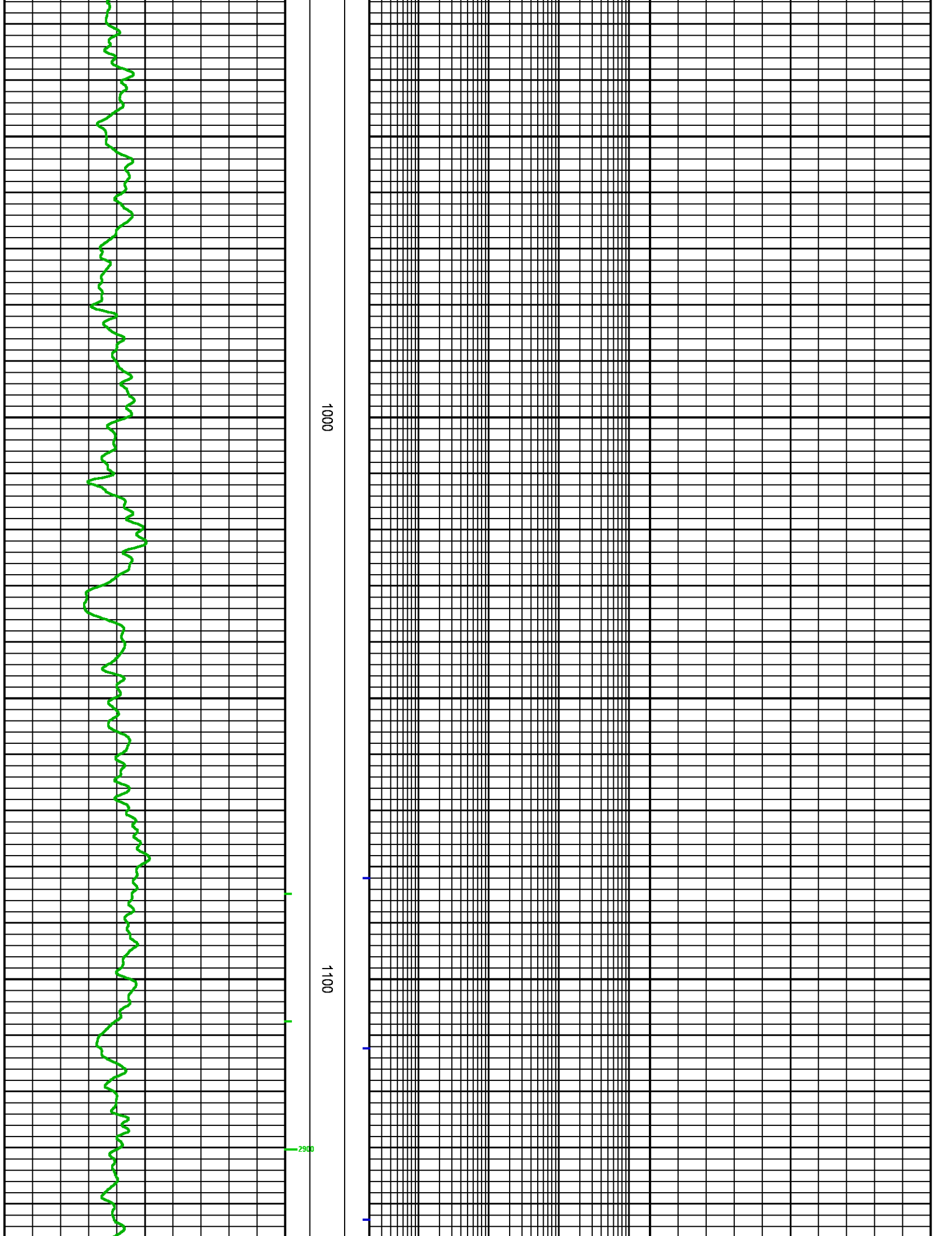


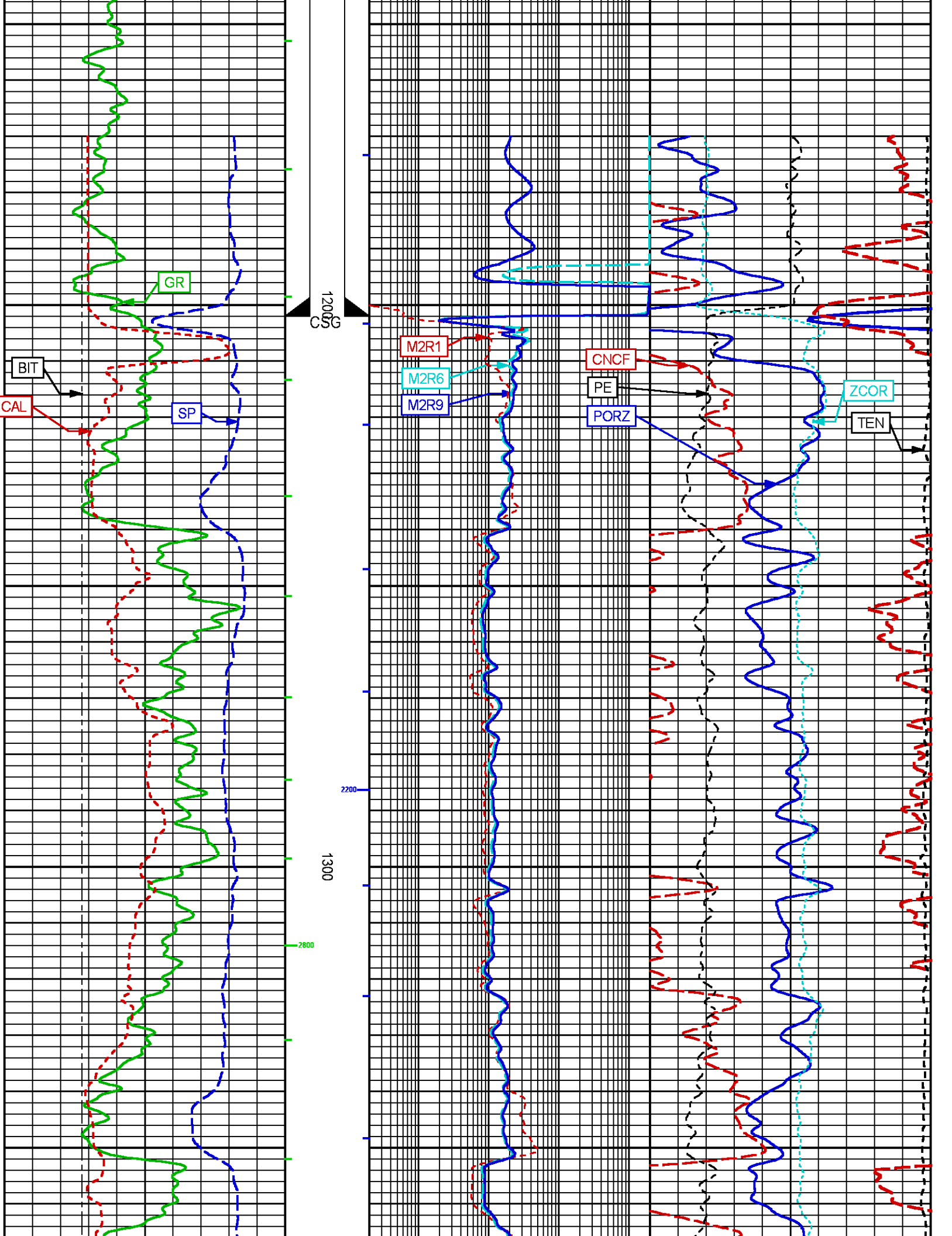


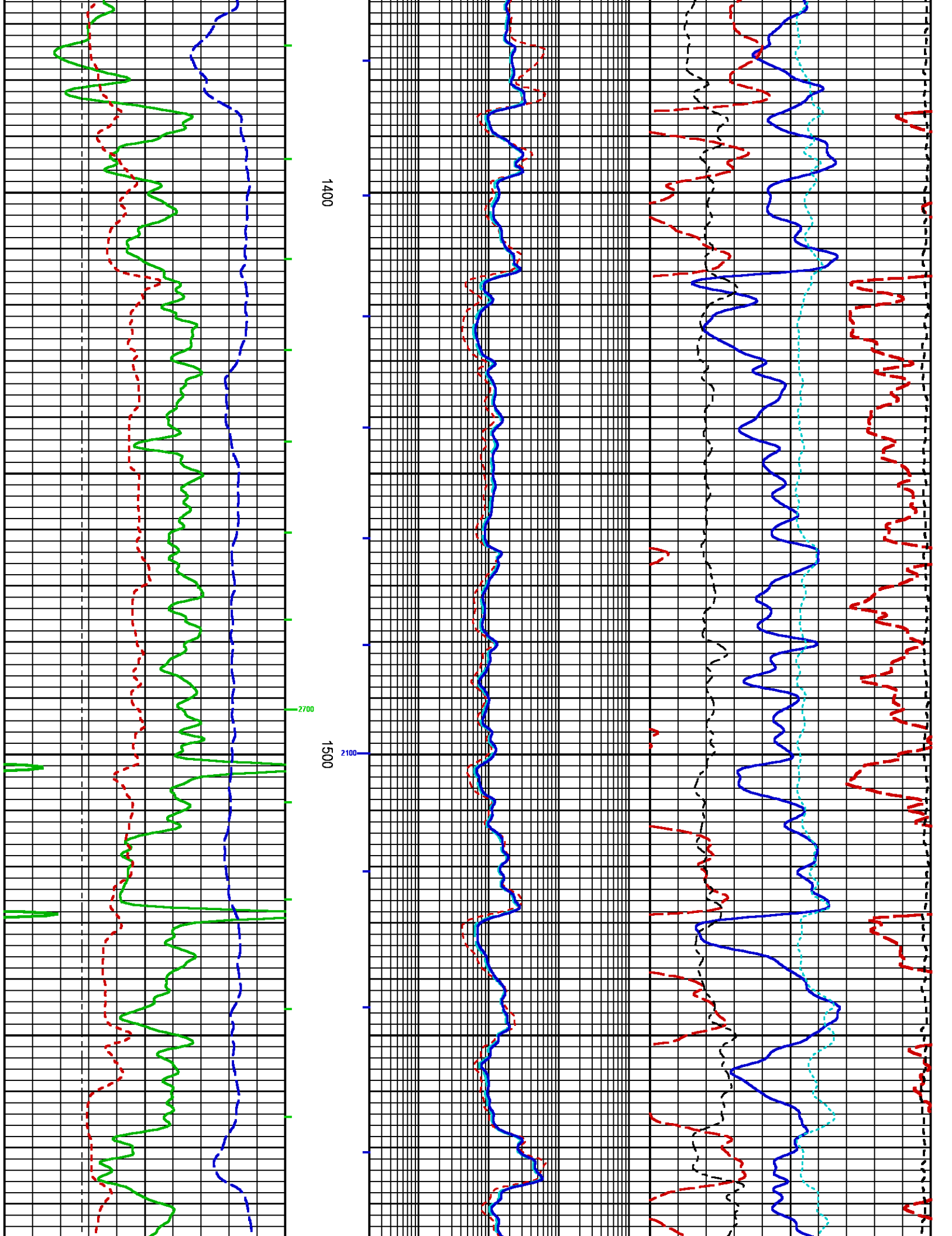
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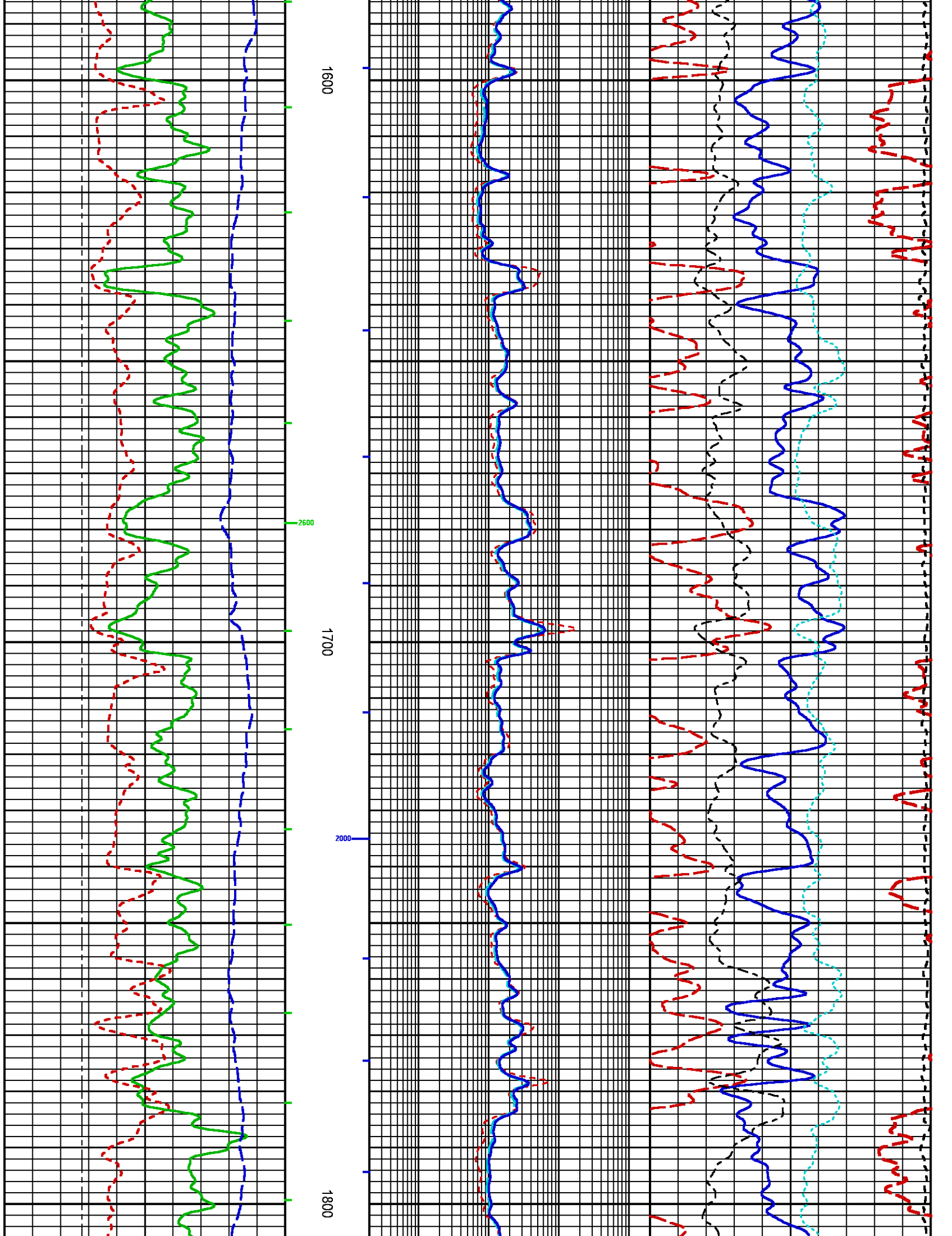
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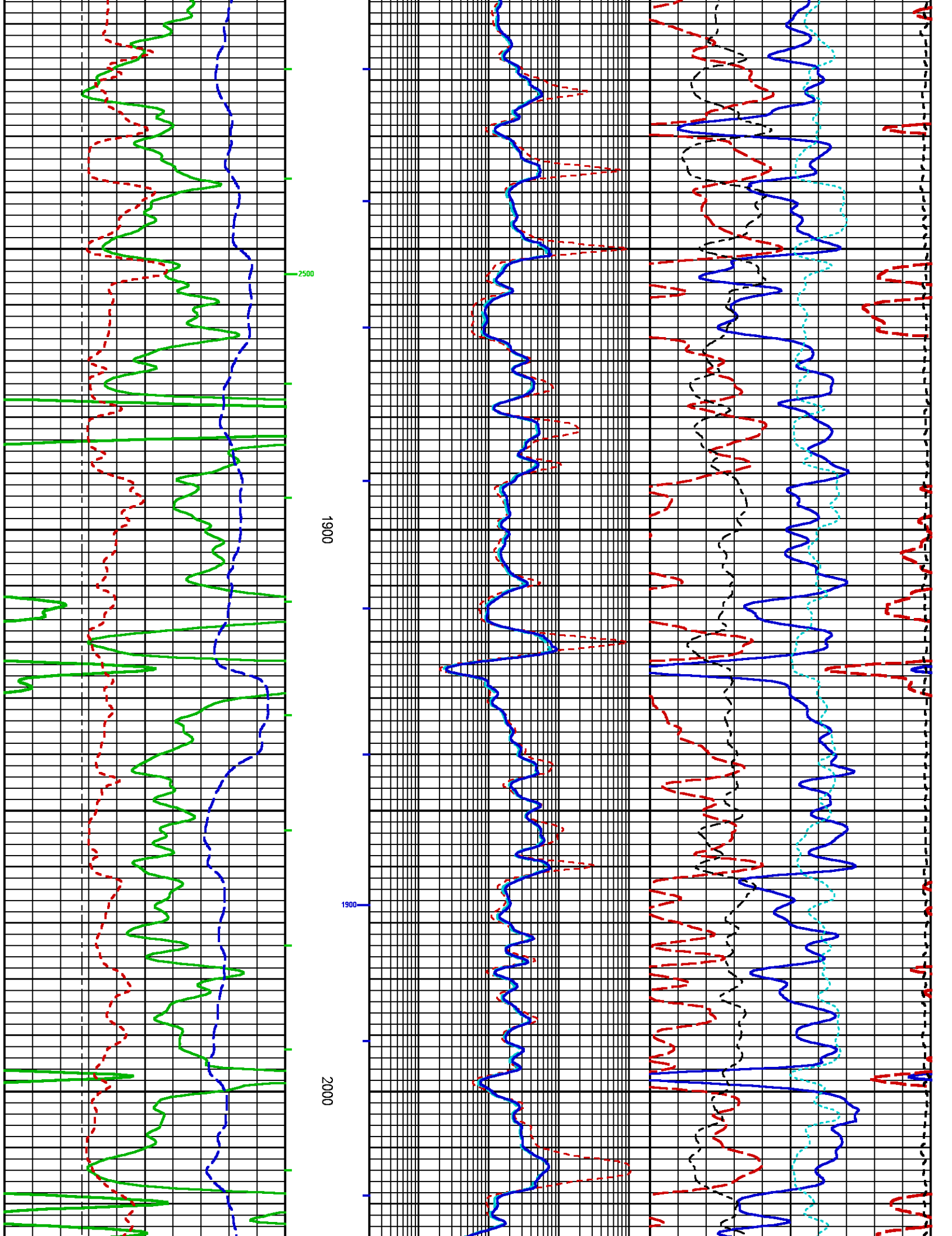


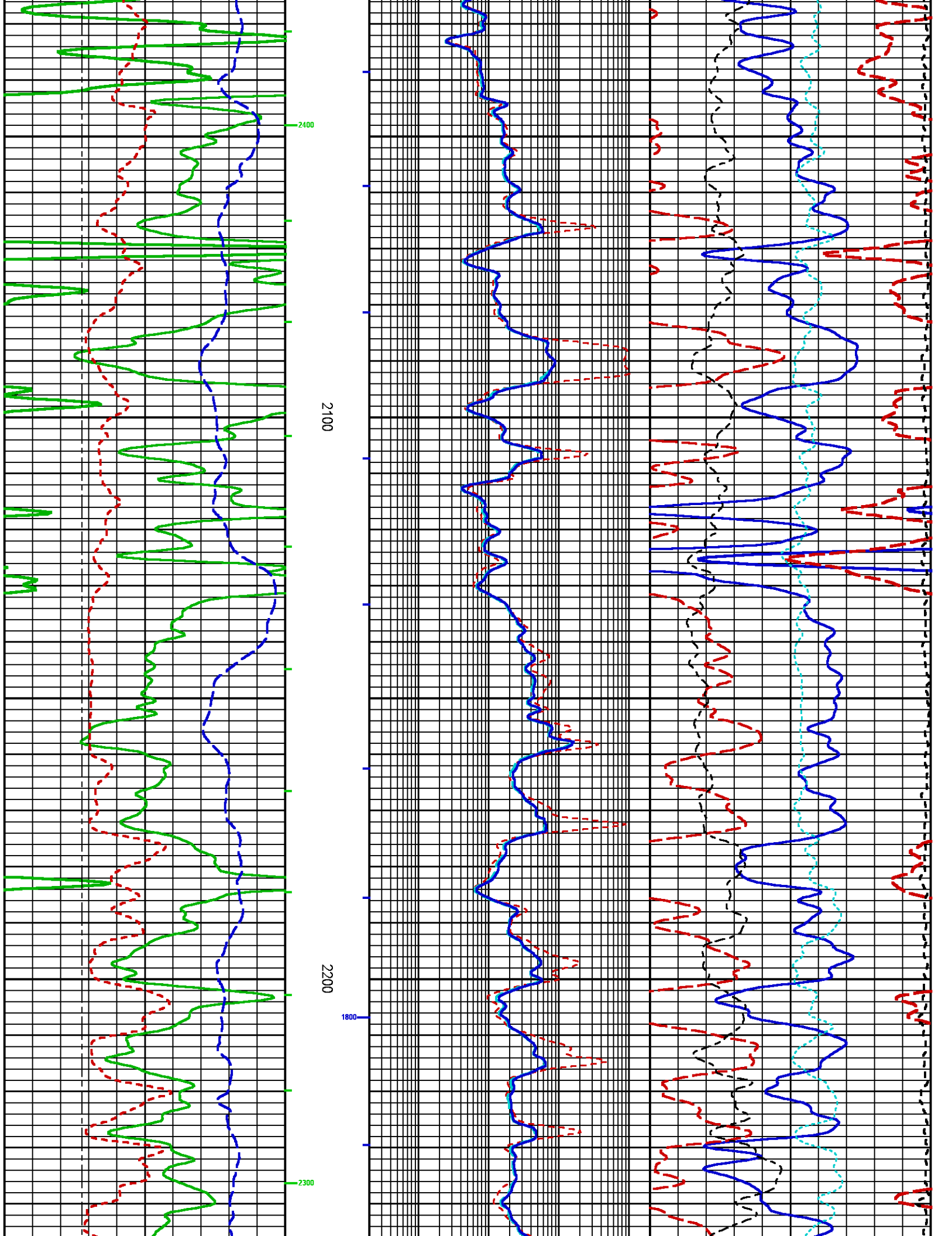


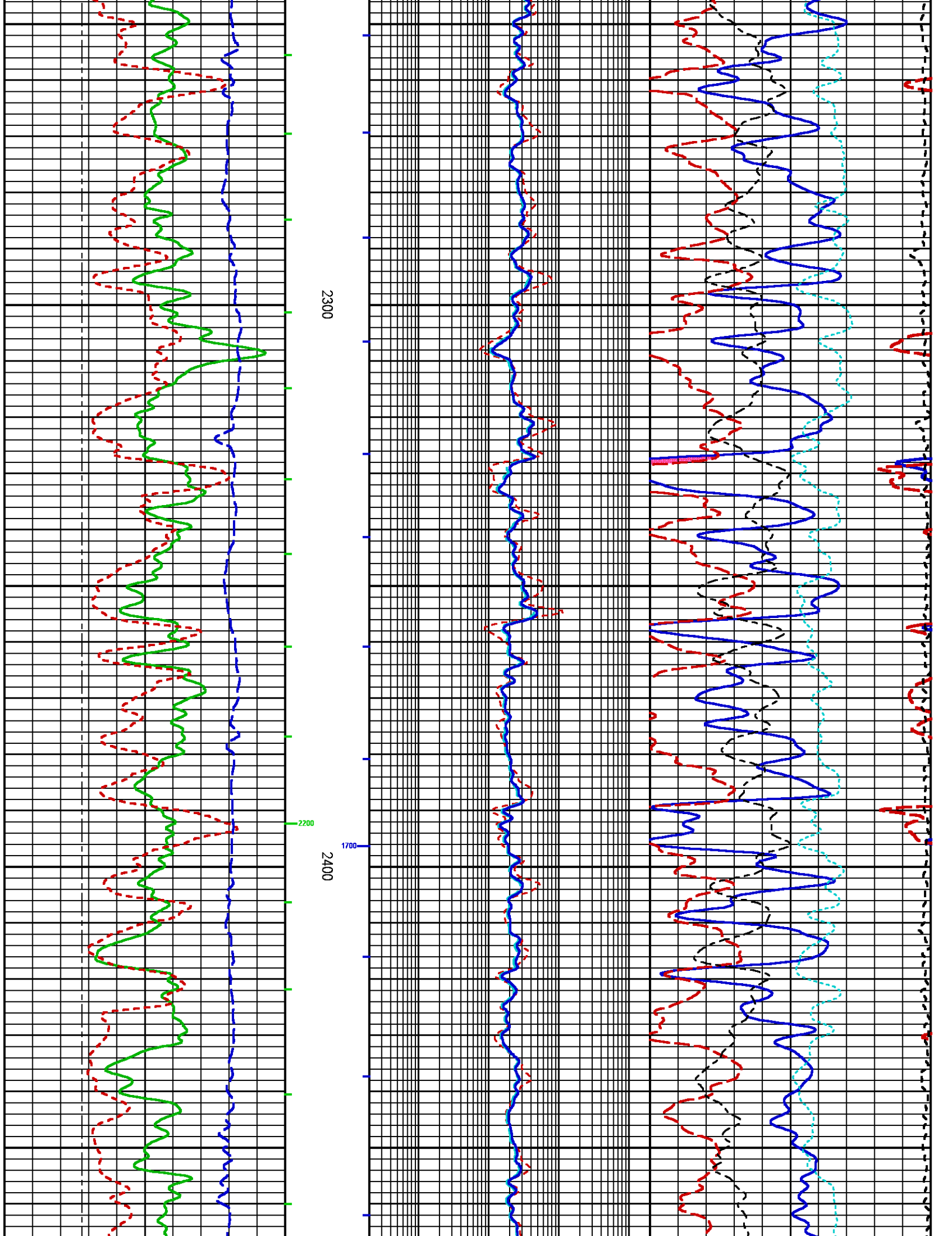


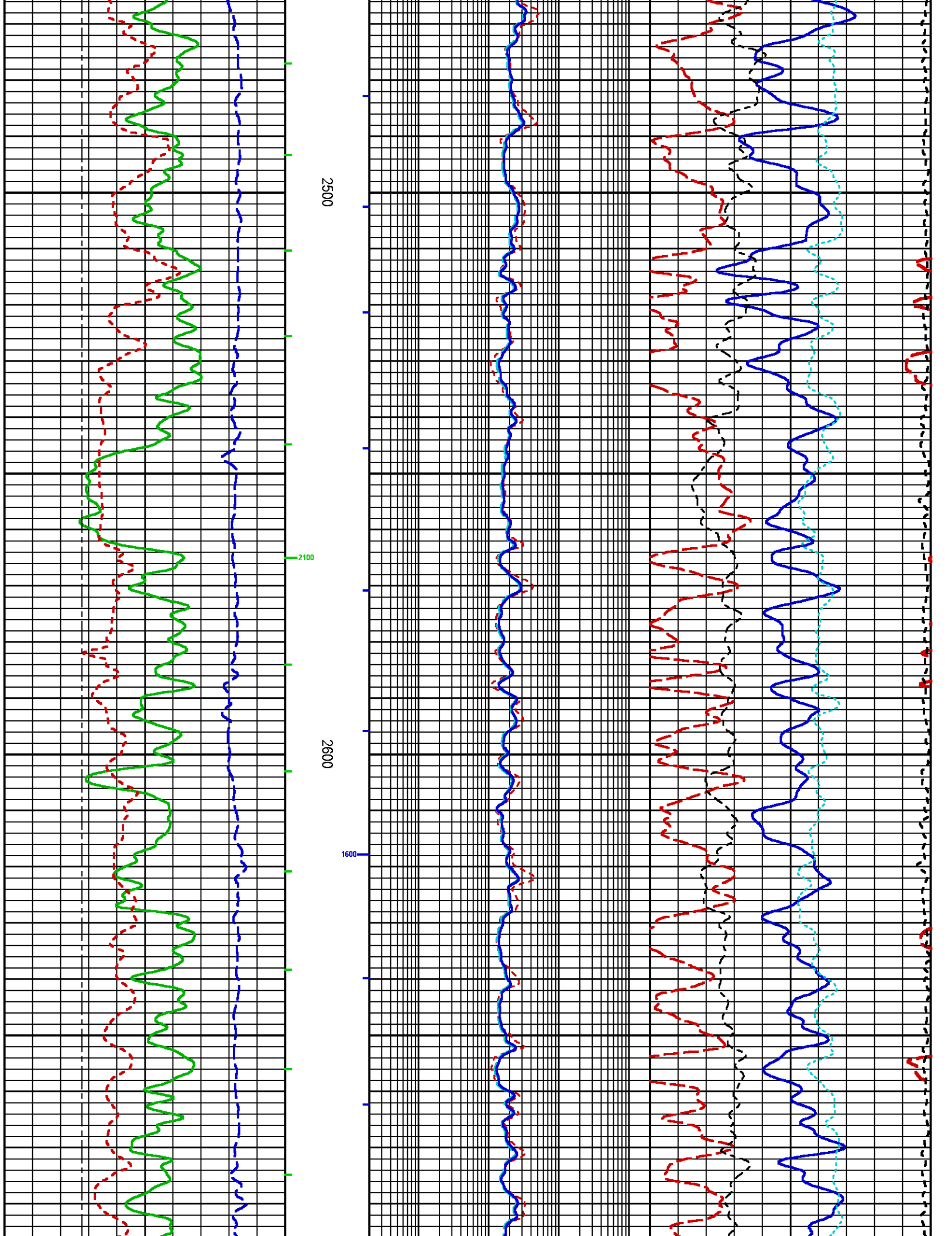


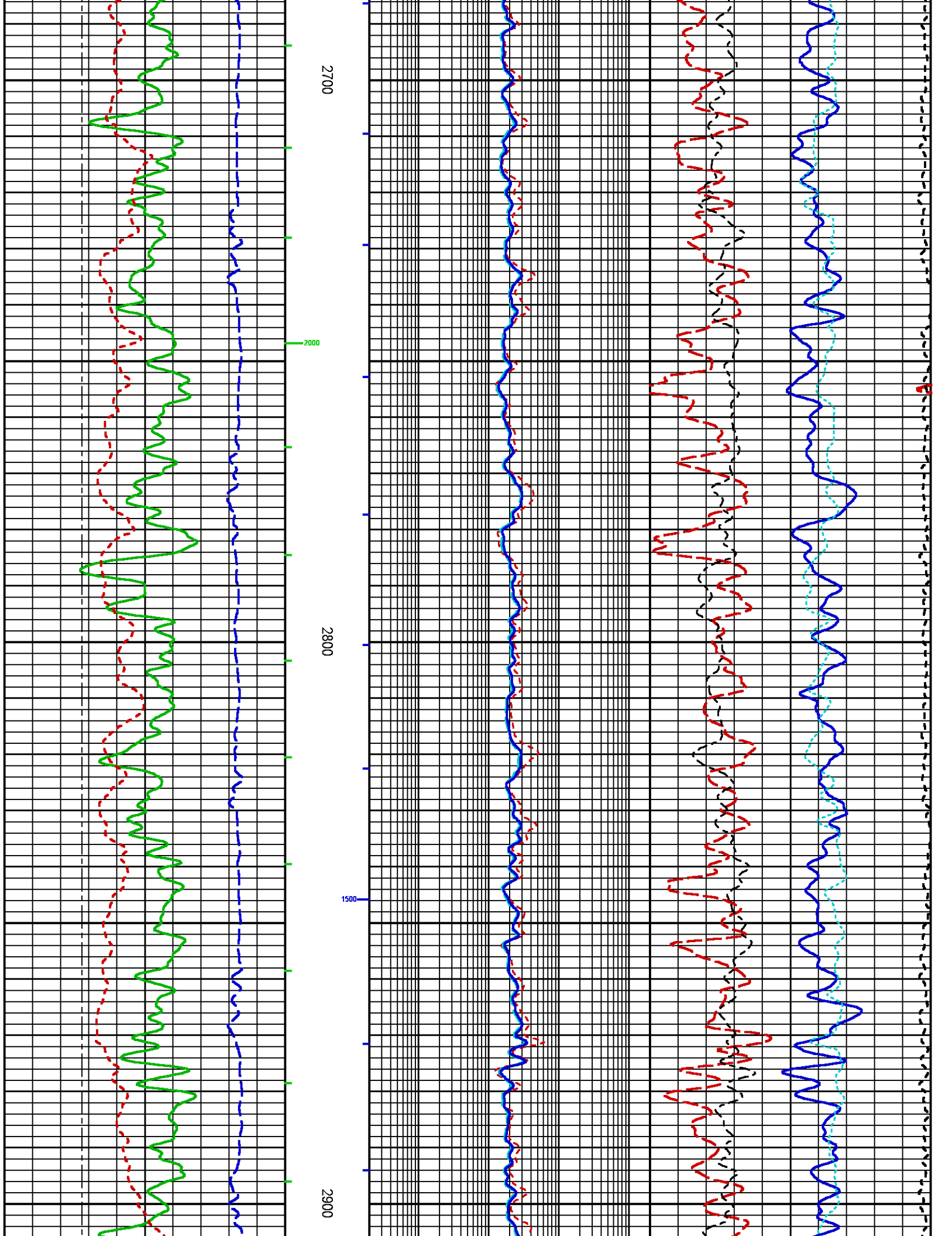


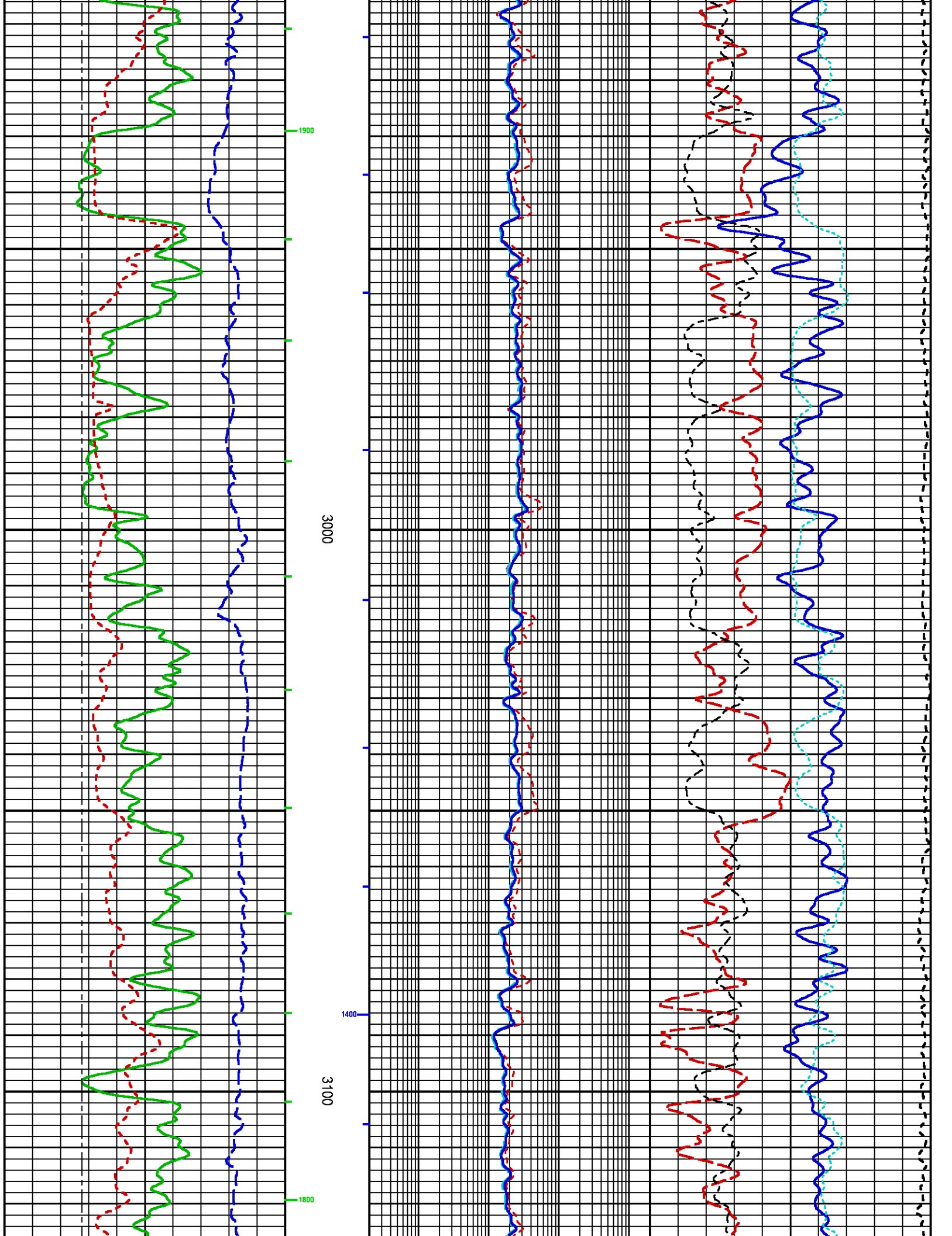


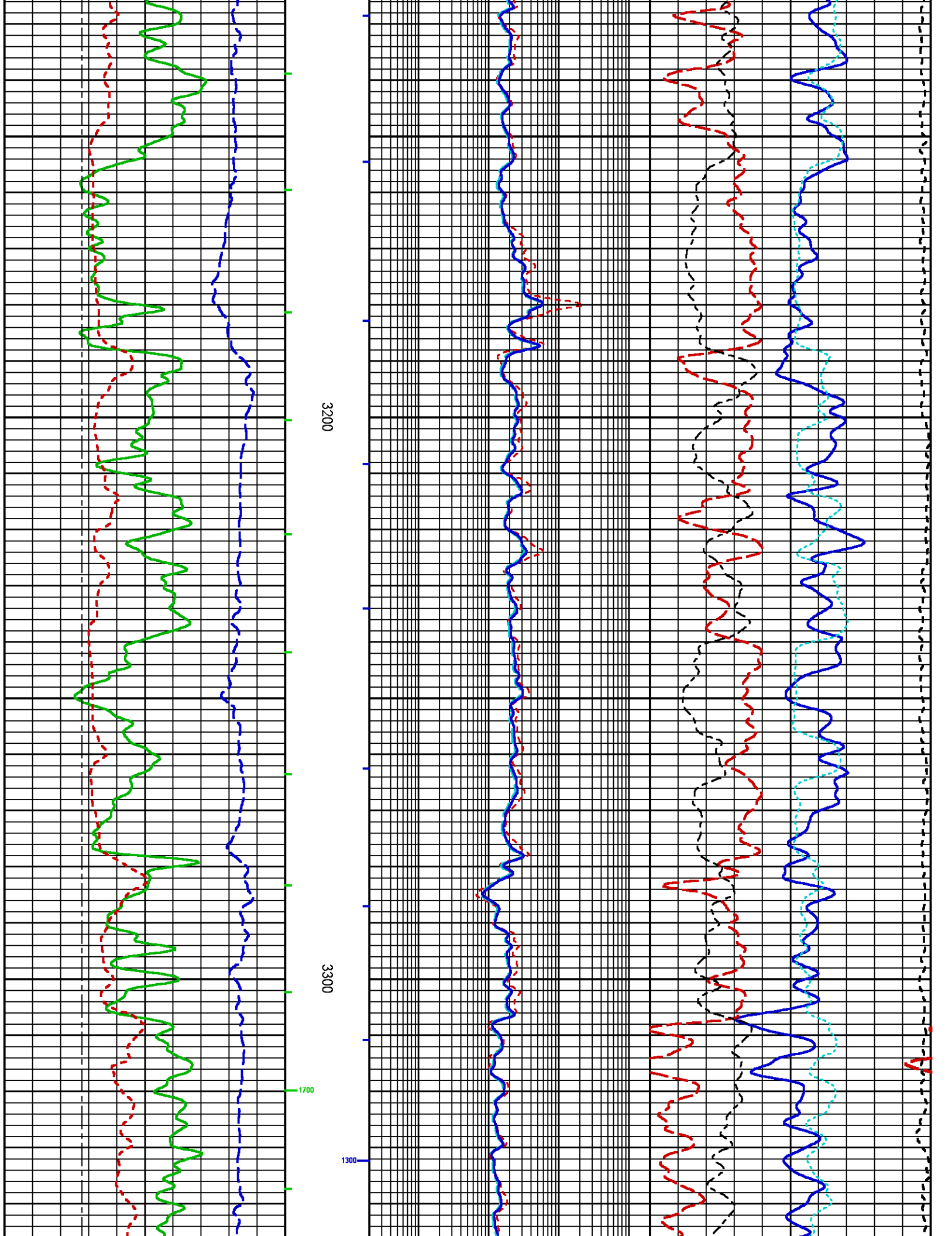


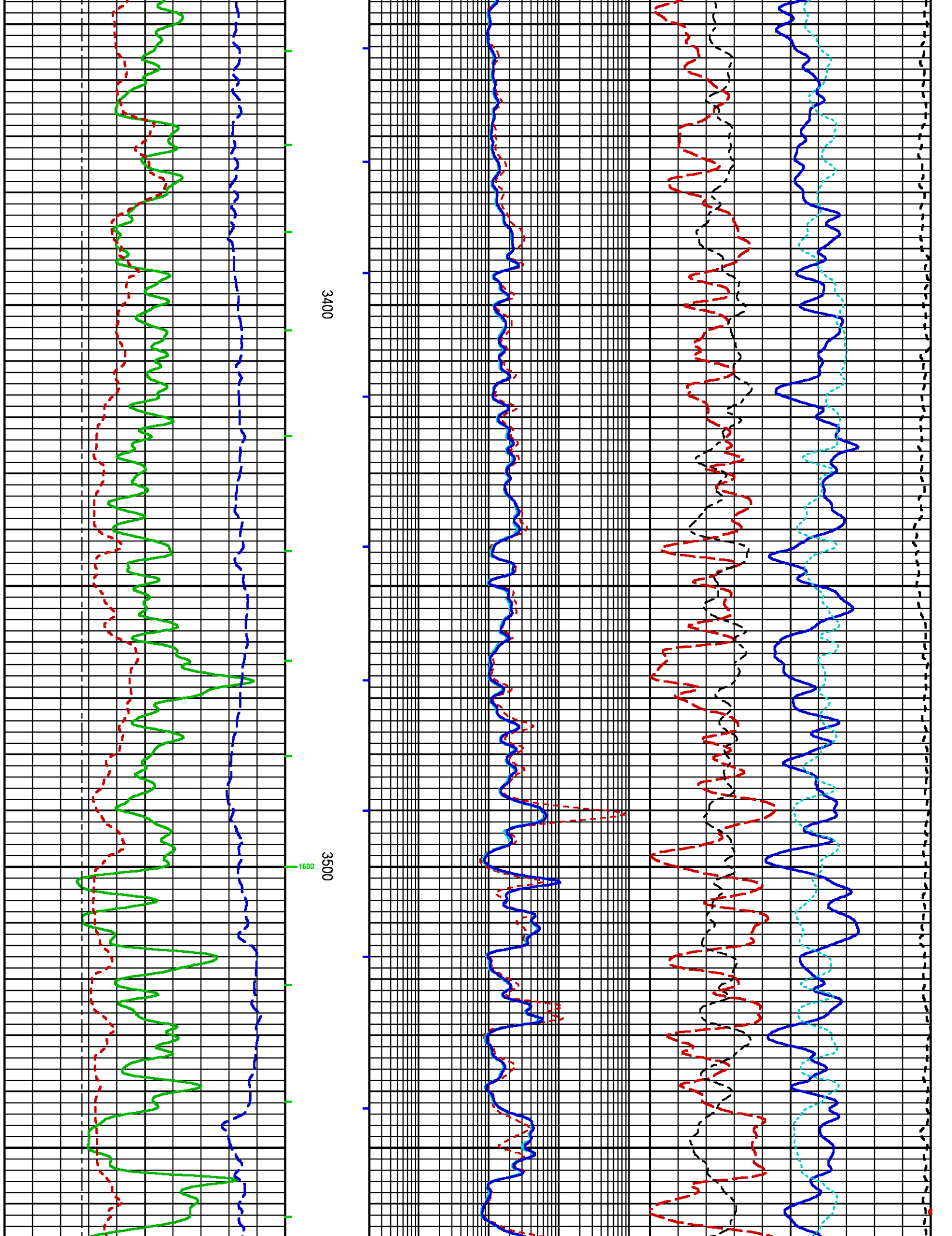


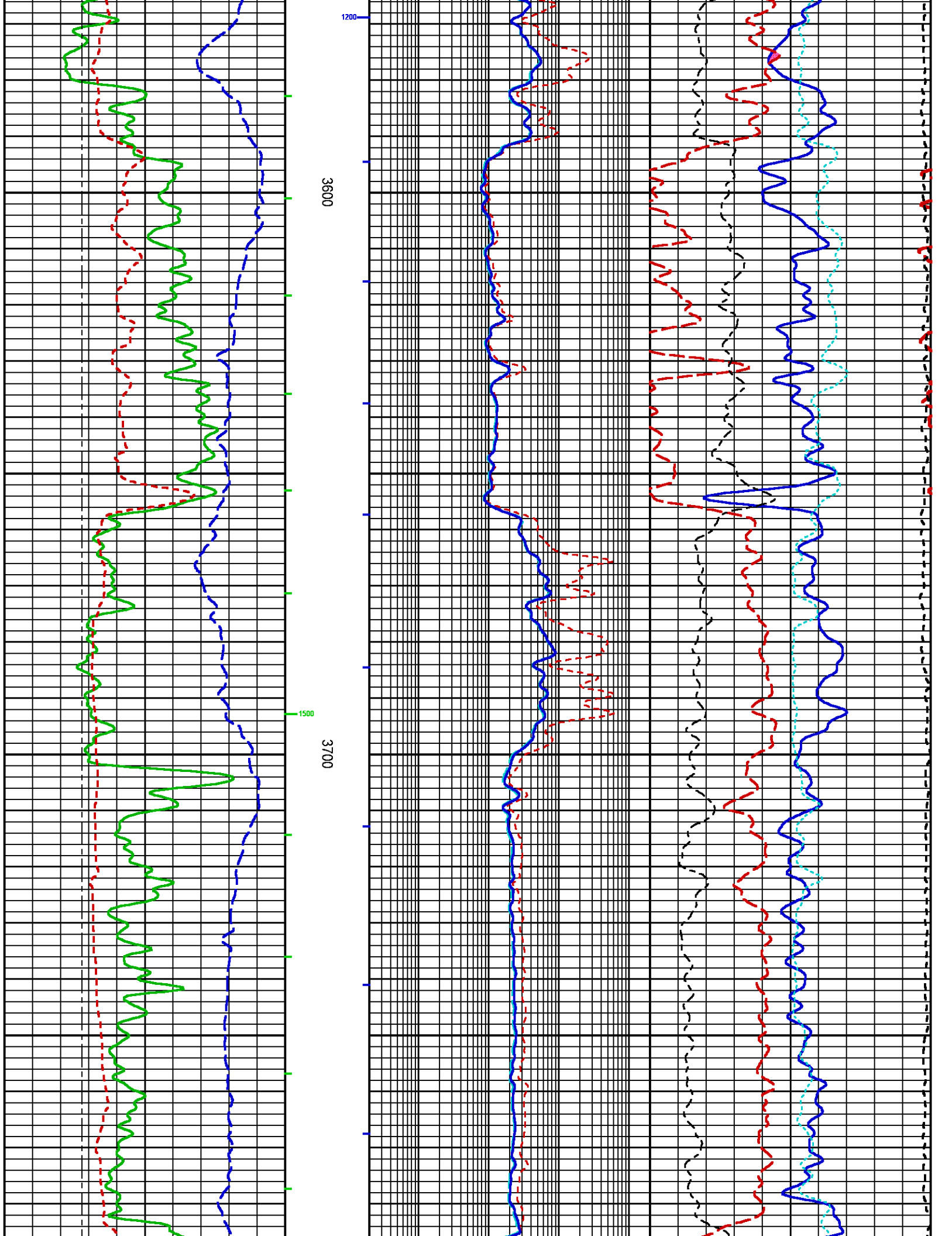


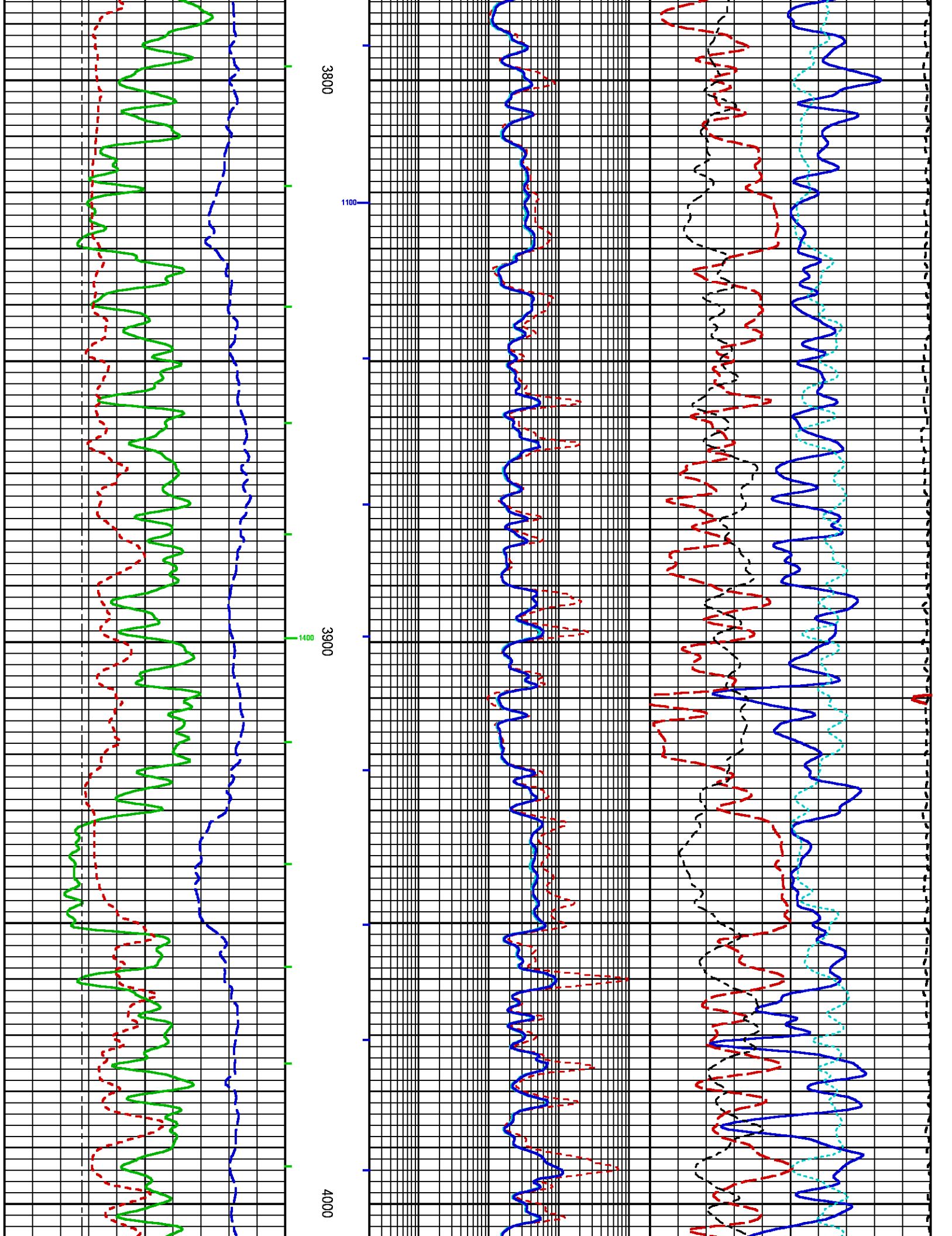


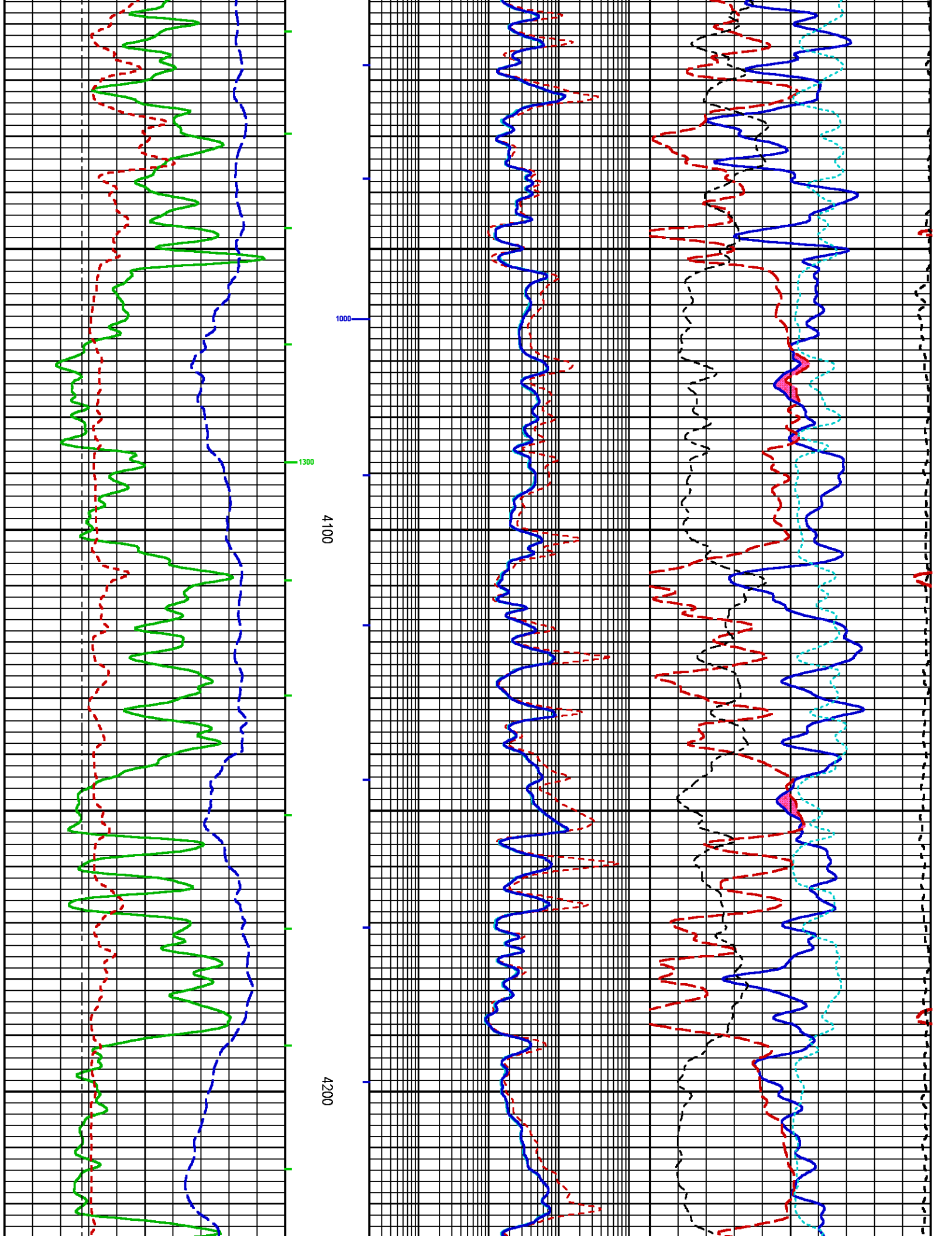


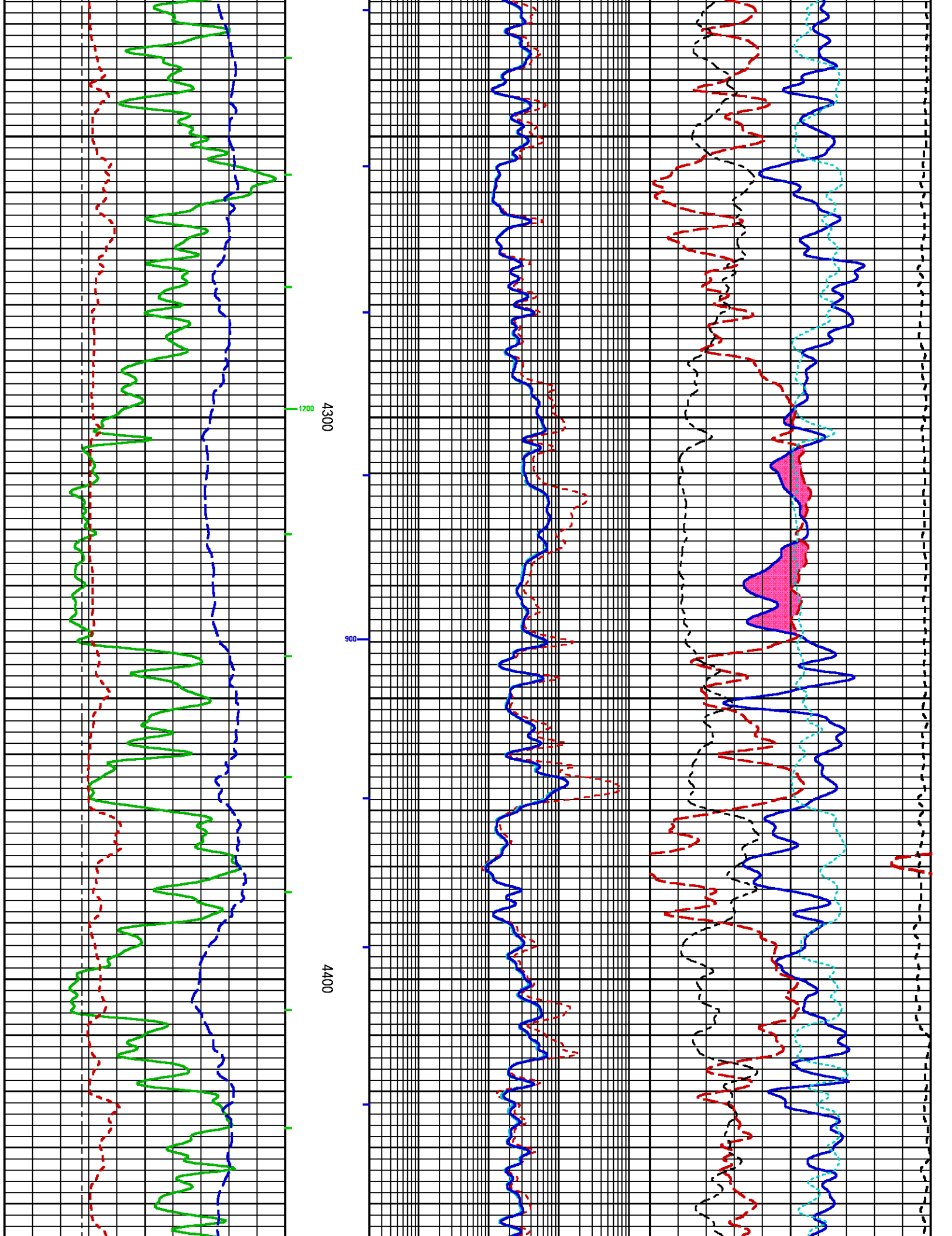


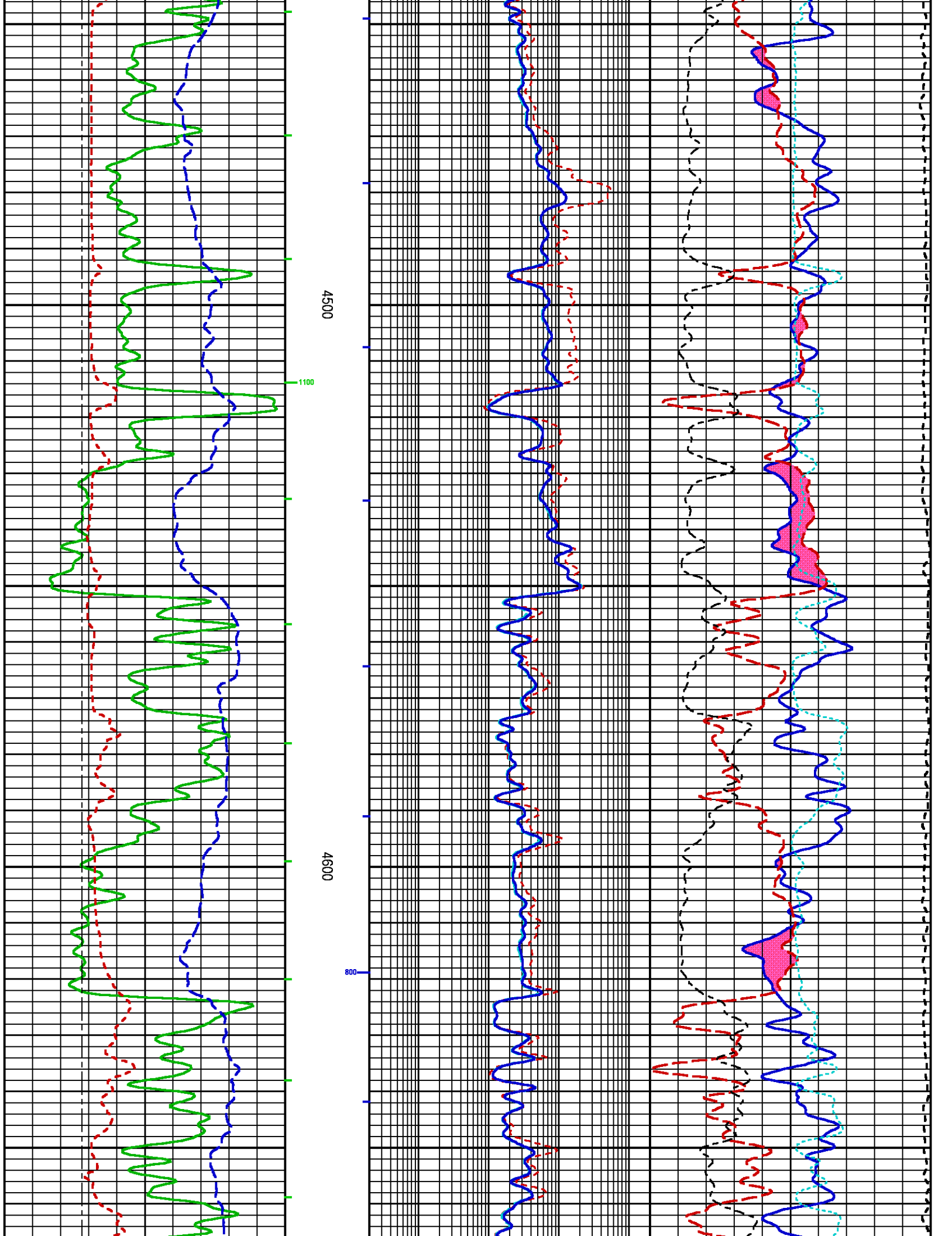


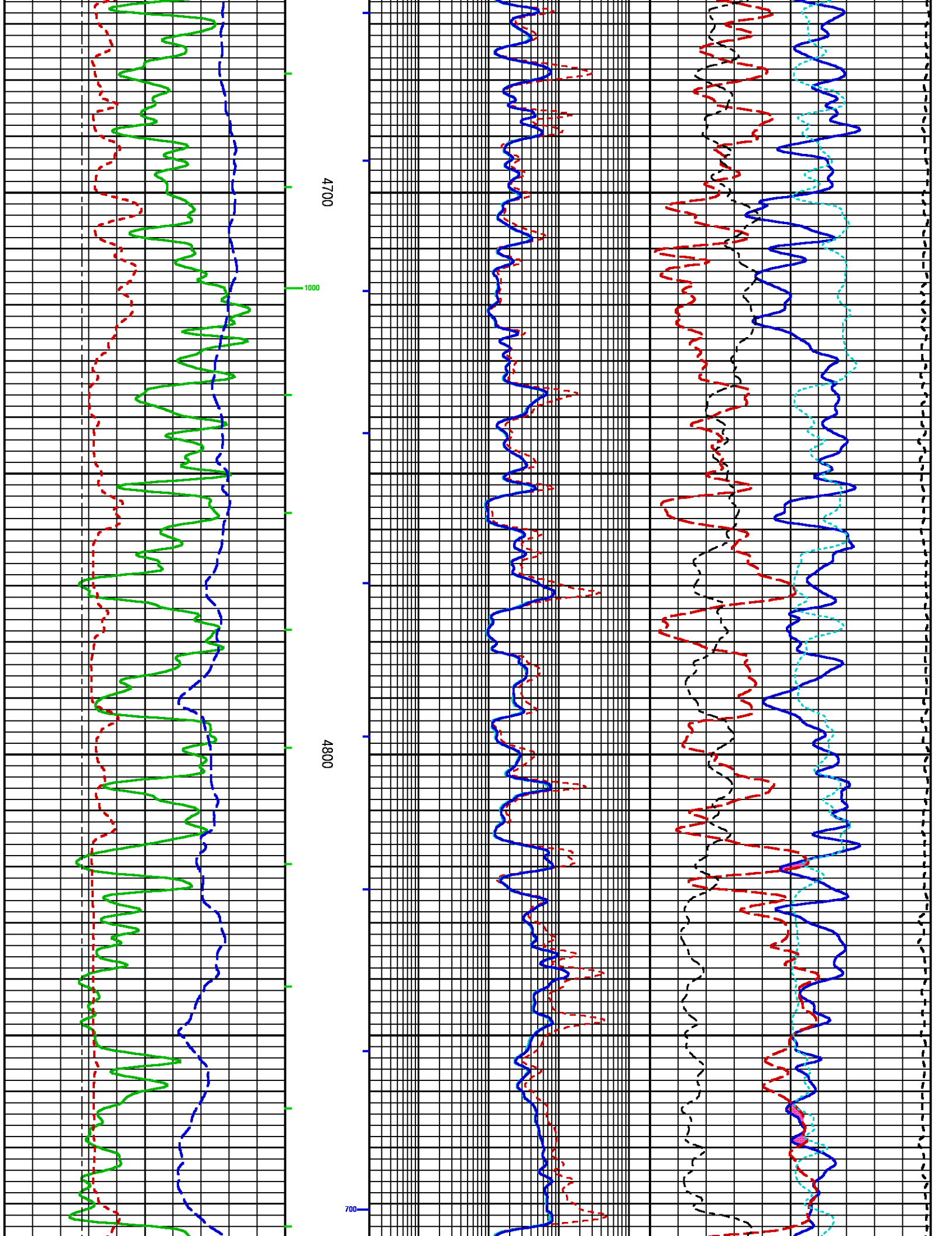


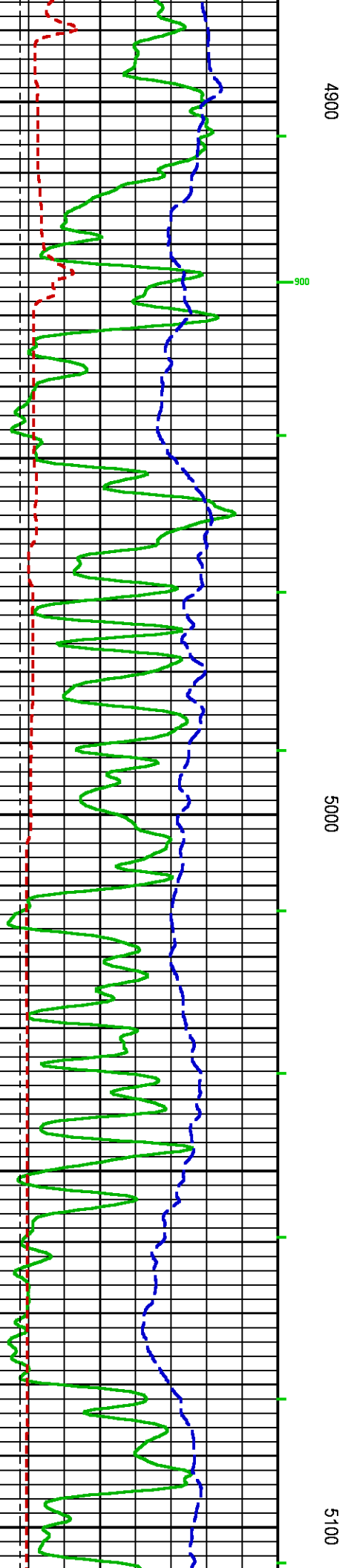
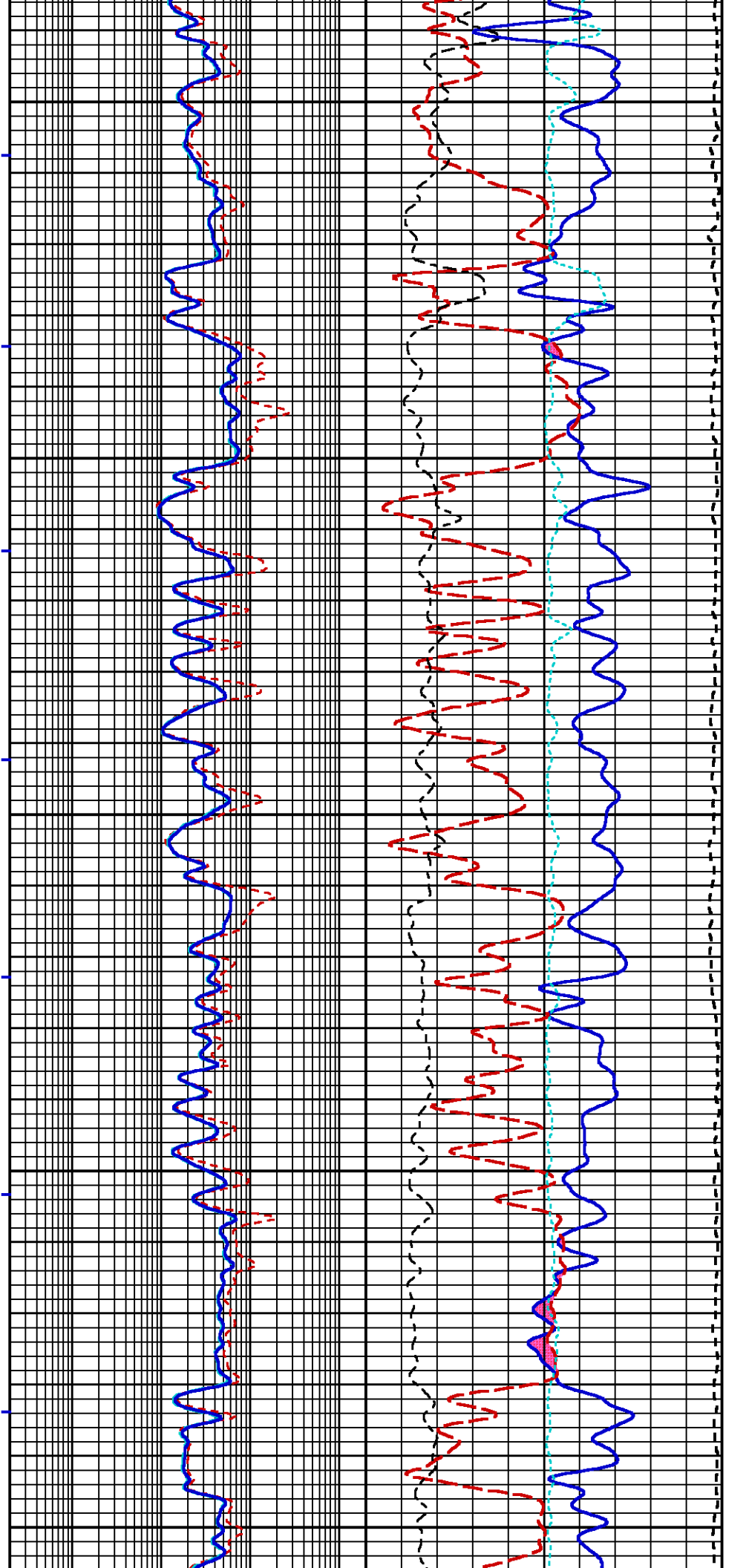


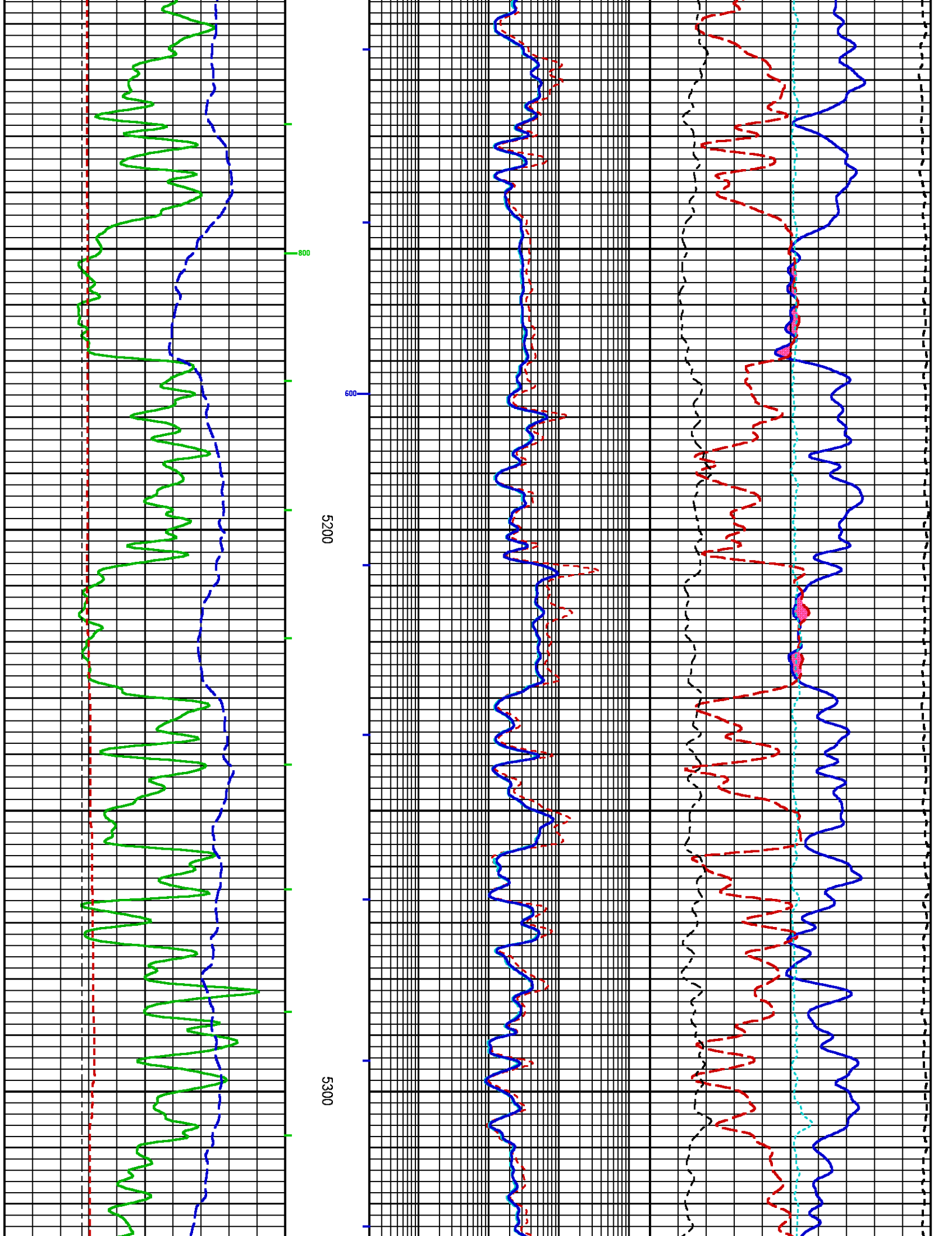


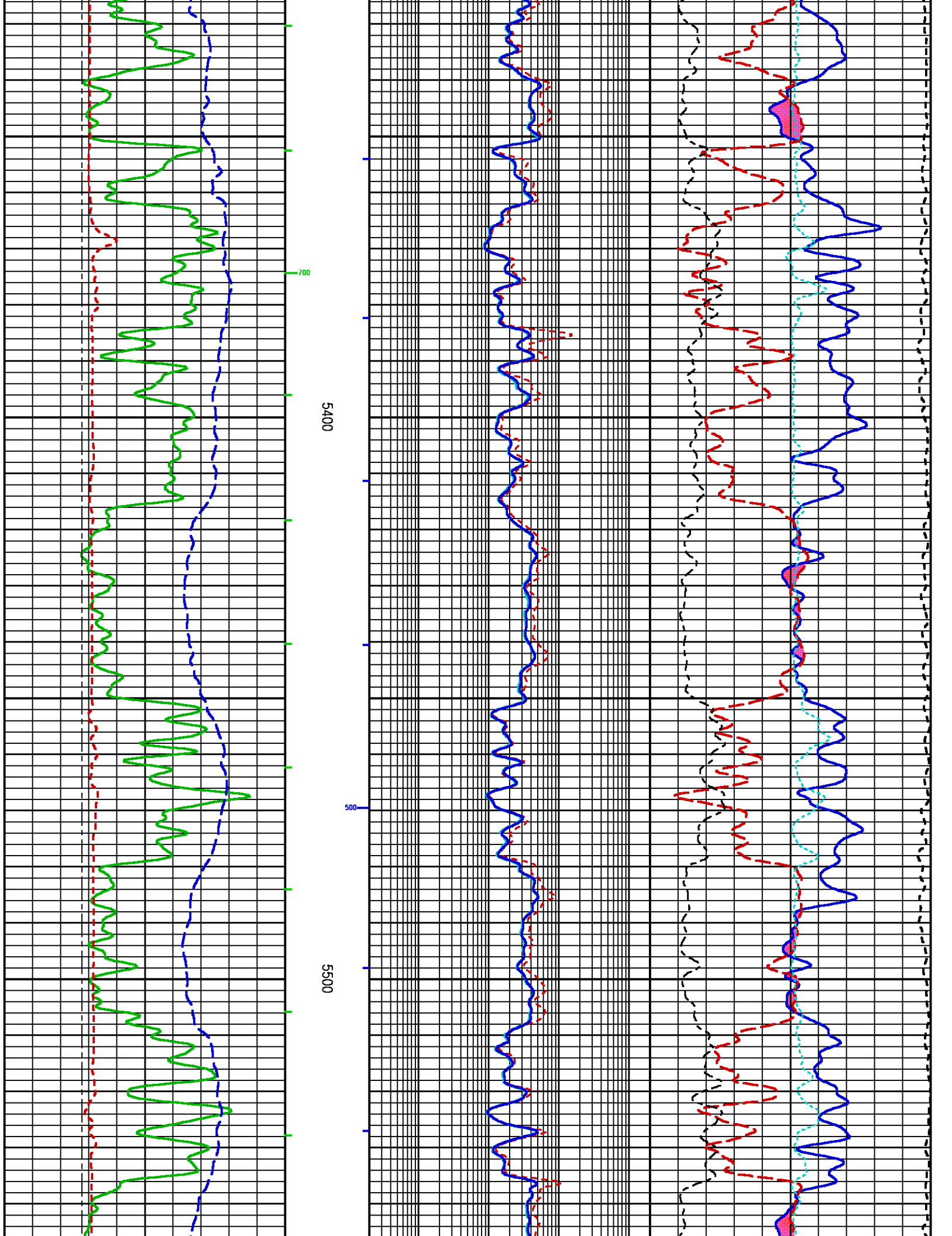


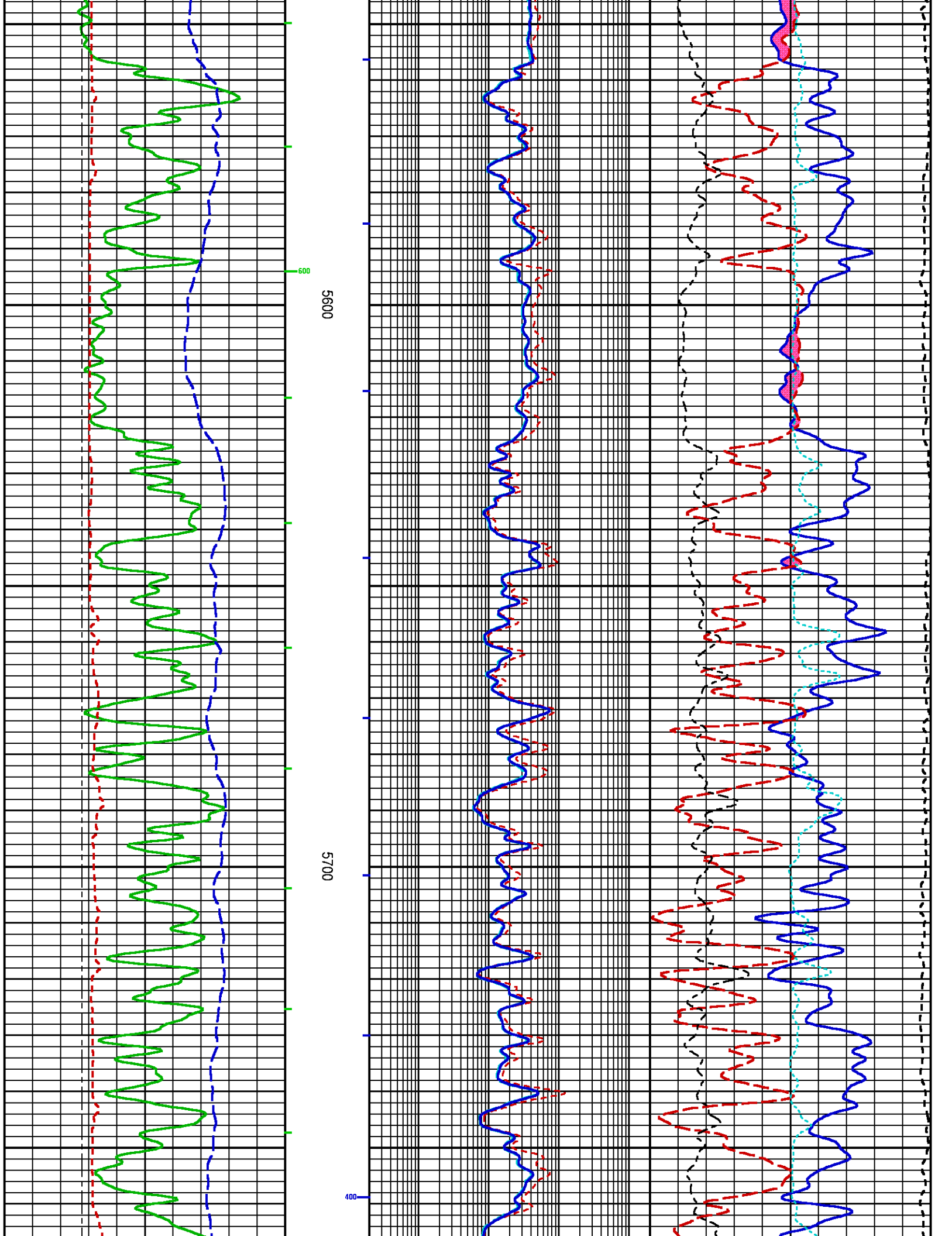


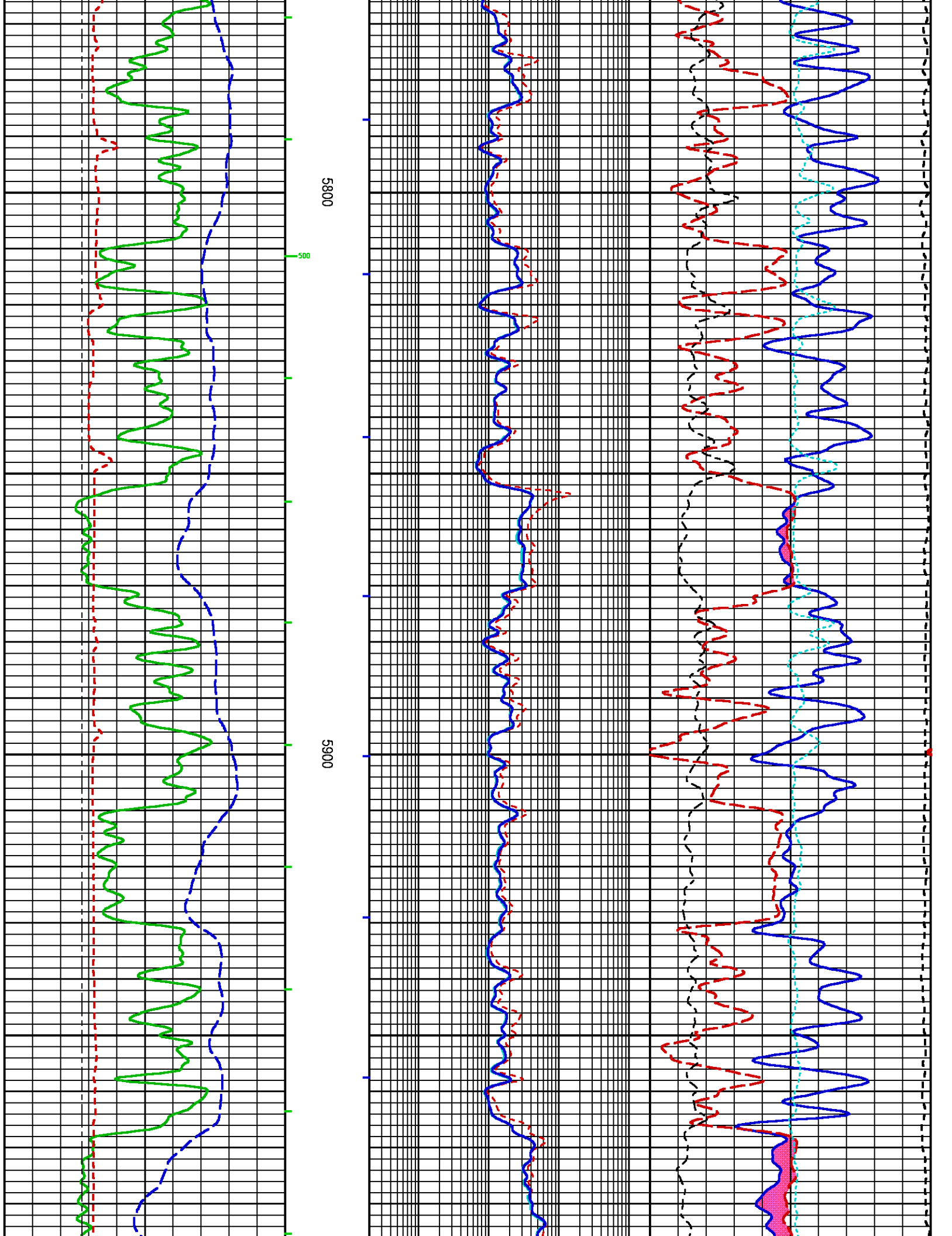


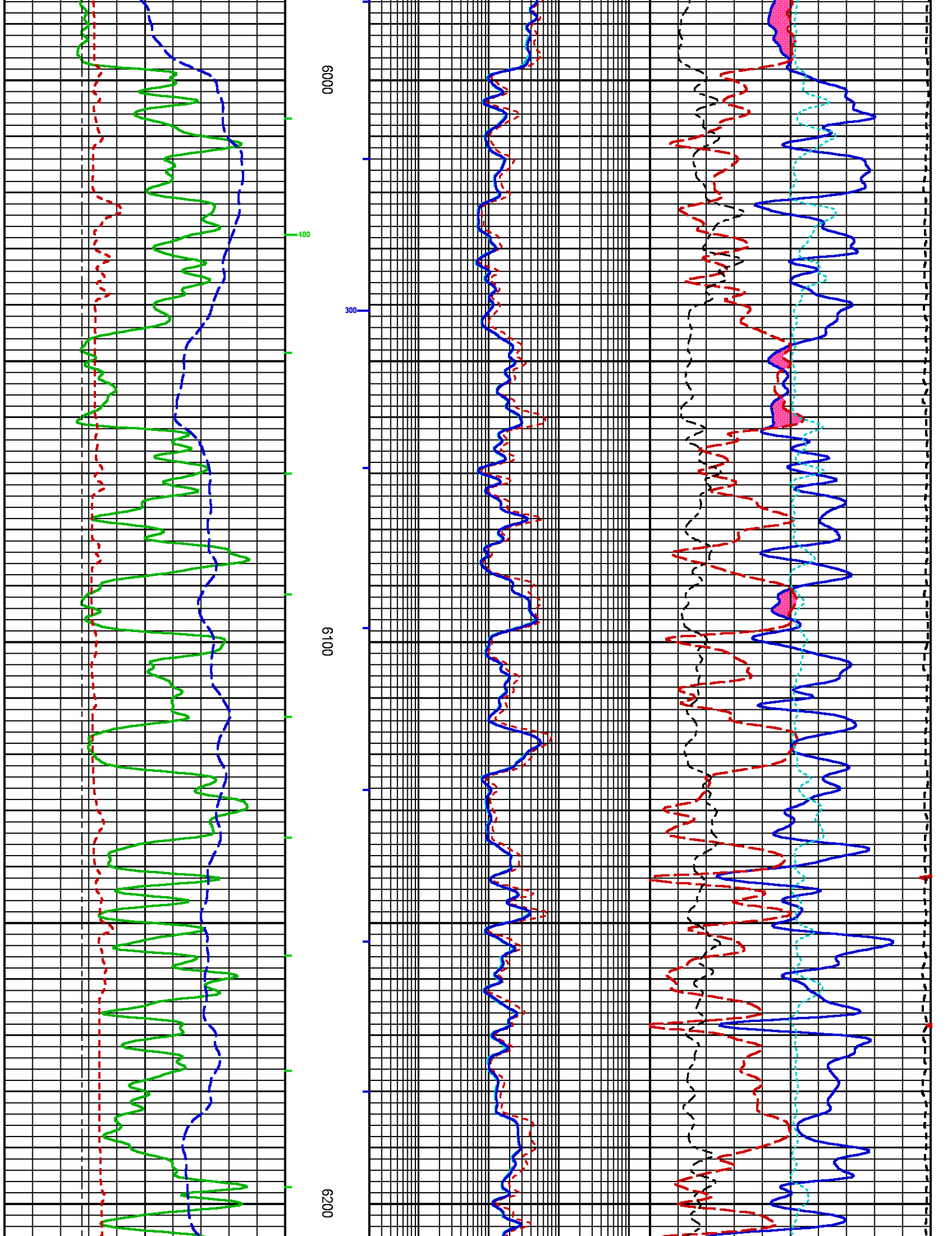


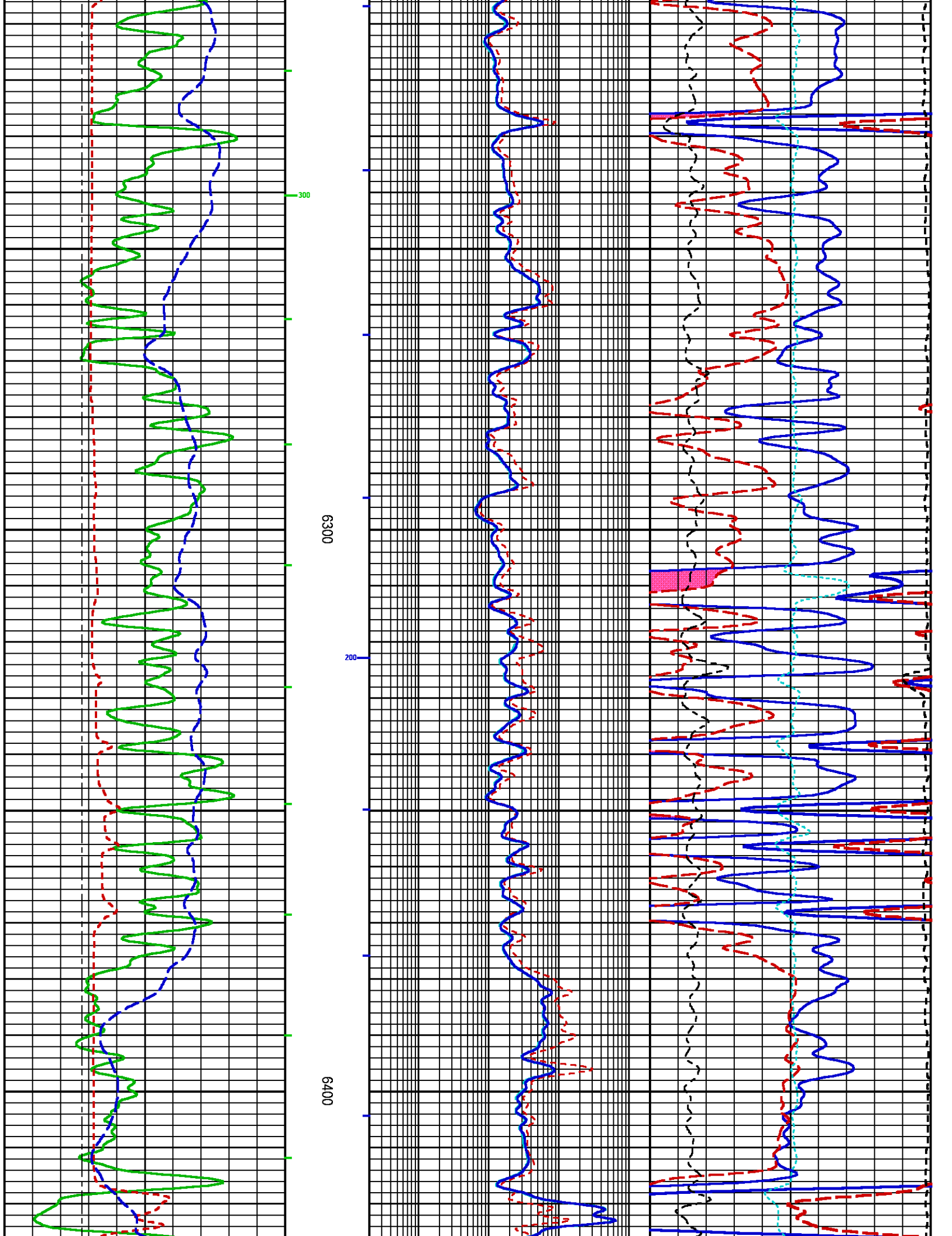


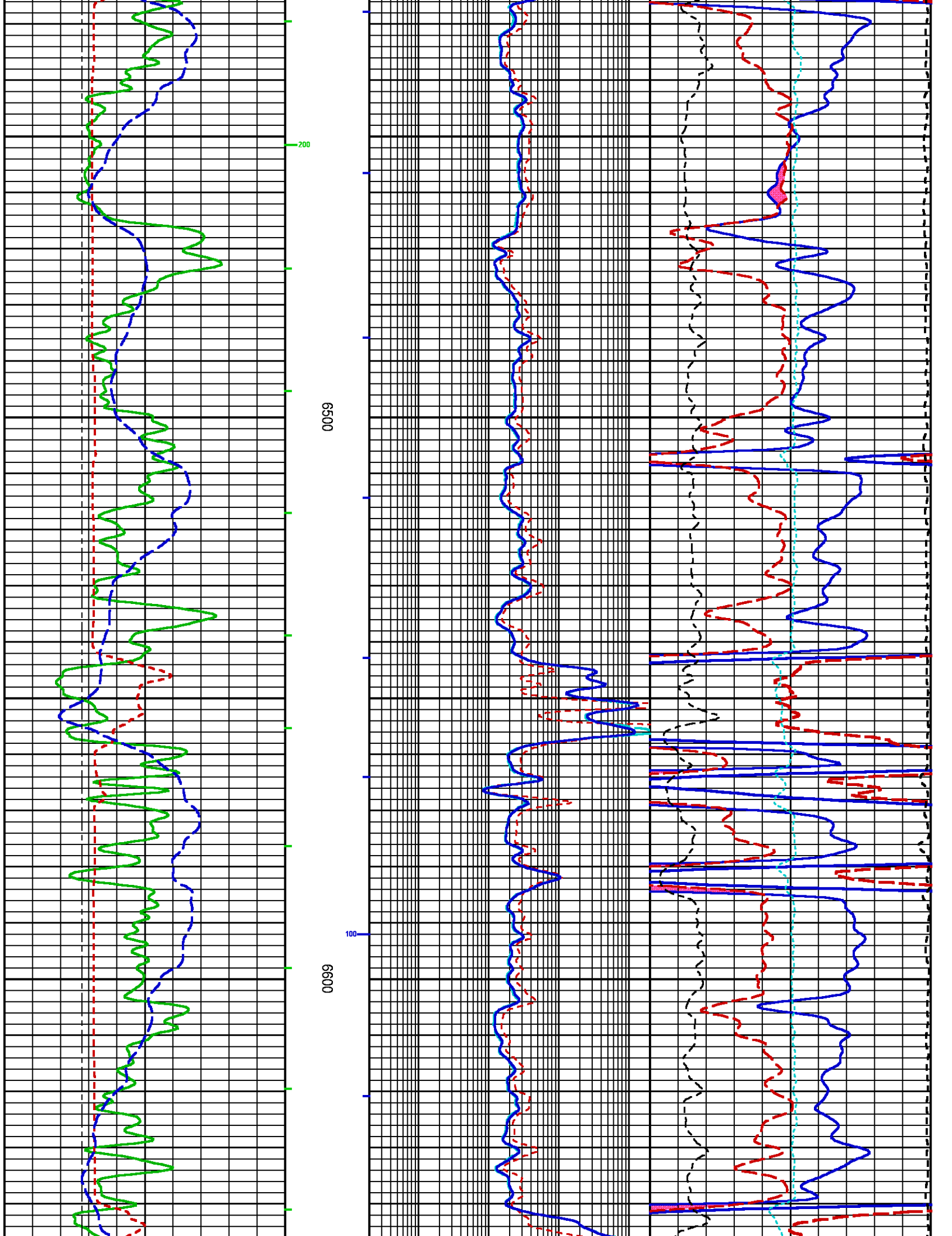


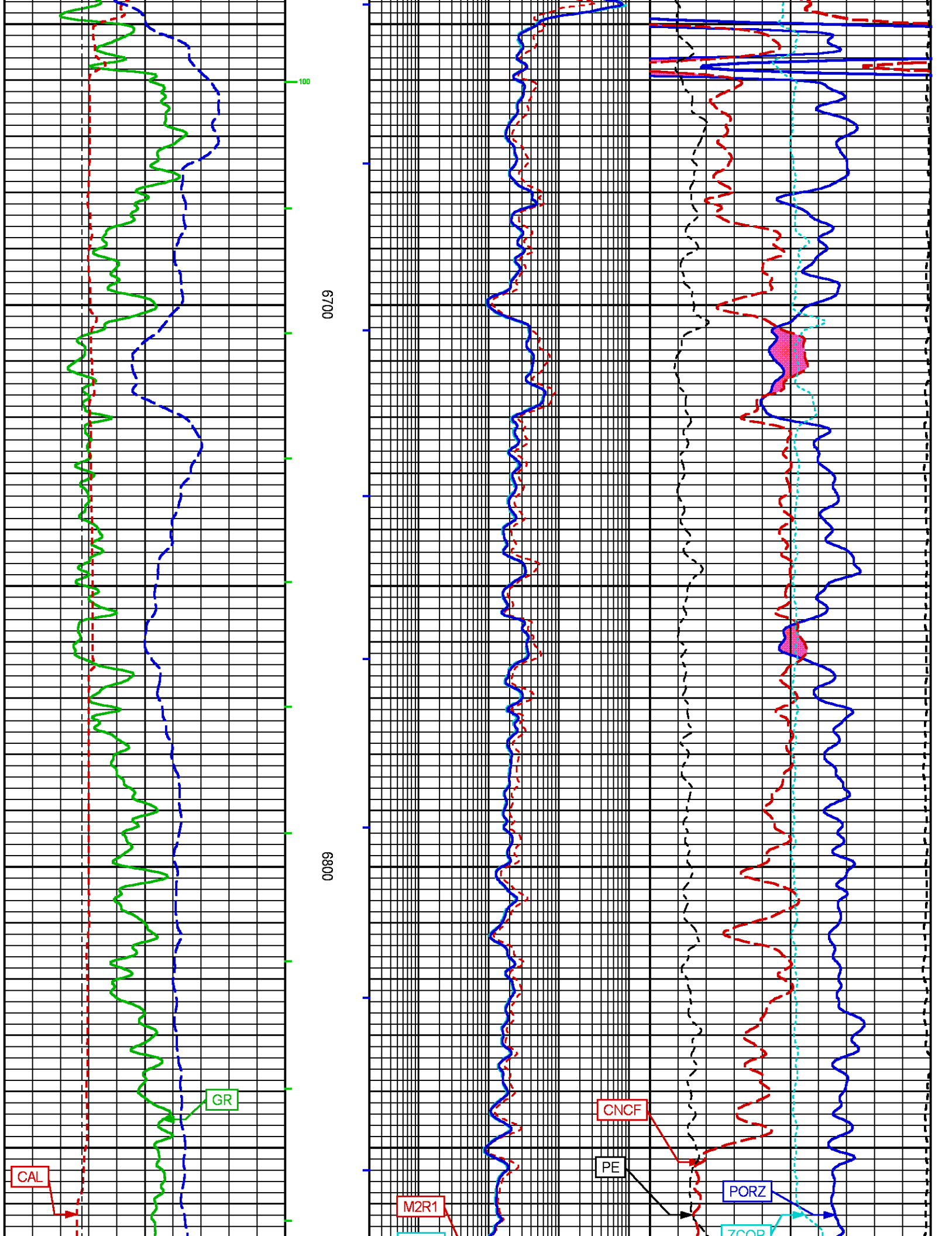


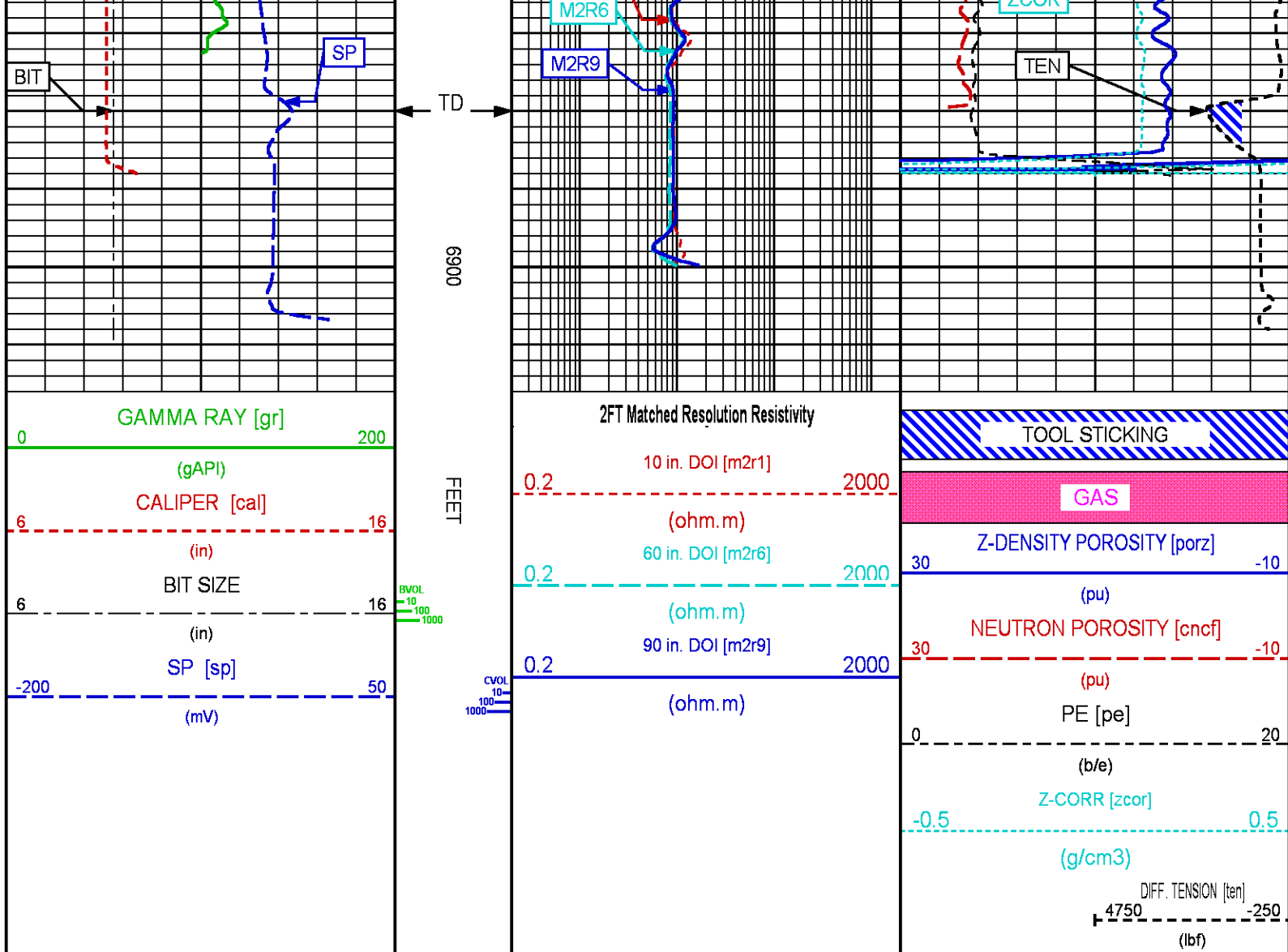












REPEAT LOG

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
Patches: 5

Plotted: Mon May 19 10:44:56 2014

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/86223J/n970a02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 1086.532 ft BOTTOM DEPTH: 1482.450 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 (hrd1*)	medium		"	"

	FILTER (hrd1s*)	medium	"	"
	FILTER (hrd2s*)	medium	"	"
	FILTER (hrd2s*)	medium	"	"
	FILTER (soft*)	medium	"	"
SP-SPDH	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	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	64.0	degF	"	"
	MUD SAMPLE RES	1.650	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	64.0	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		"	"

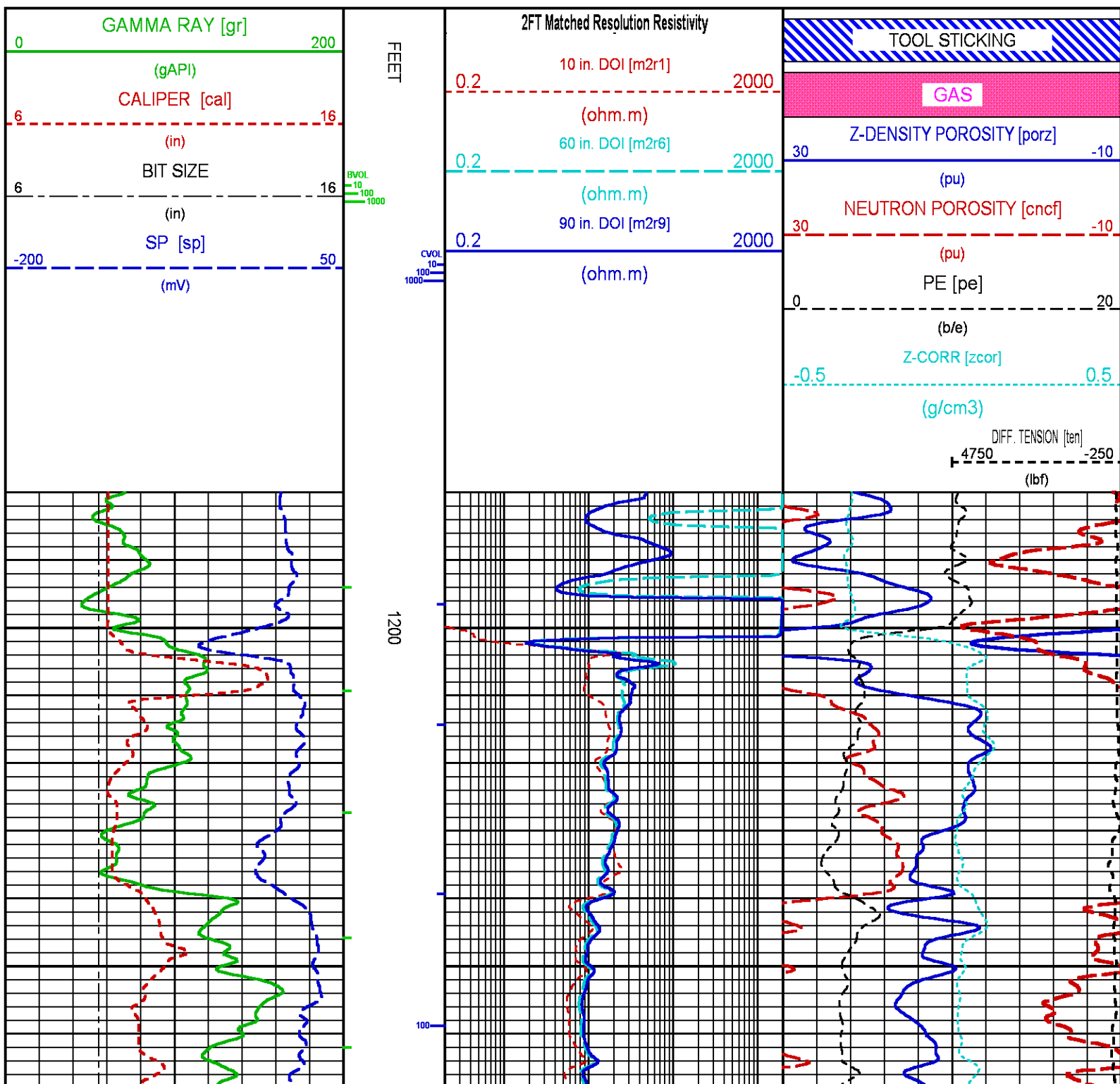
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	May 19 10:24:02 2014	BIT SIZE
F1:BVOL	May 19 10:24:02 2014	BOREHOLE VOLUME
F1:CAL	May 19 10:24:02 2014	CALIPER
F1:CNCF	May 19 10:24:02 2014	FIELD NORMALIZED COMPENSATED NEUTRON POROSITY
F1:CVOL	May 19 10:24:02 2014	CEMENT VOLUME
F1:GR	May 19 10:24:02 2014	GAMMA RAY
F1:M2R1	May 19 10:24:02 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI
F1:M2R6	May 19 10:24:02 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	May 19 10:24:02 2014	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:PE	May 19 10:24:02 2014	PHOTO ELECTRIC CROSS-SECTION
F1:PORZ	May 19 10:24:02 2014	POROSITY FOR SELECTABLE MATRIX
F1:SP	May 19 10:24:02 2014	SPONTANEOUS POTENTIAL
F1:TEN	May 19 10:24:02 2014	DIFFERENTIAL TENSION
F1:TEMP	May 19 10:24:02 2014	TEMPERATURE

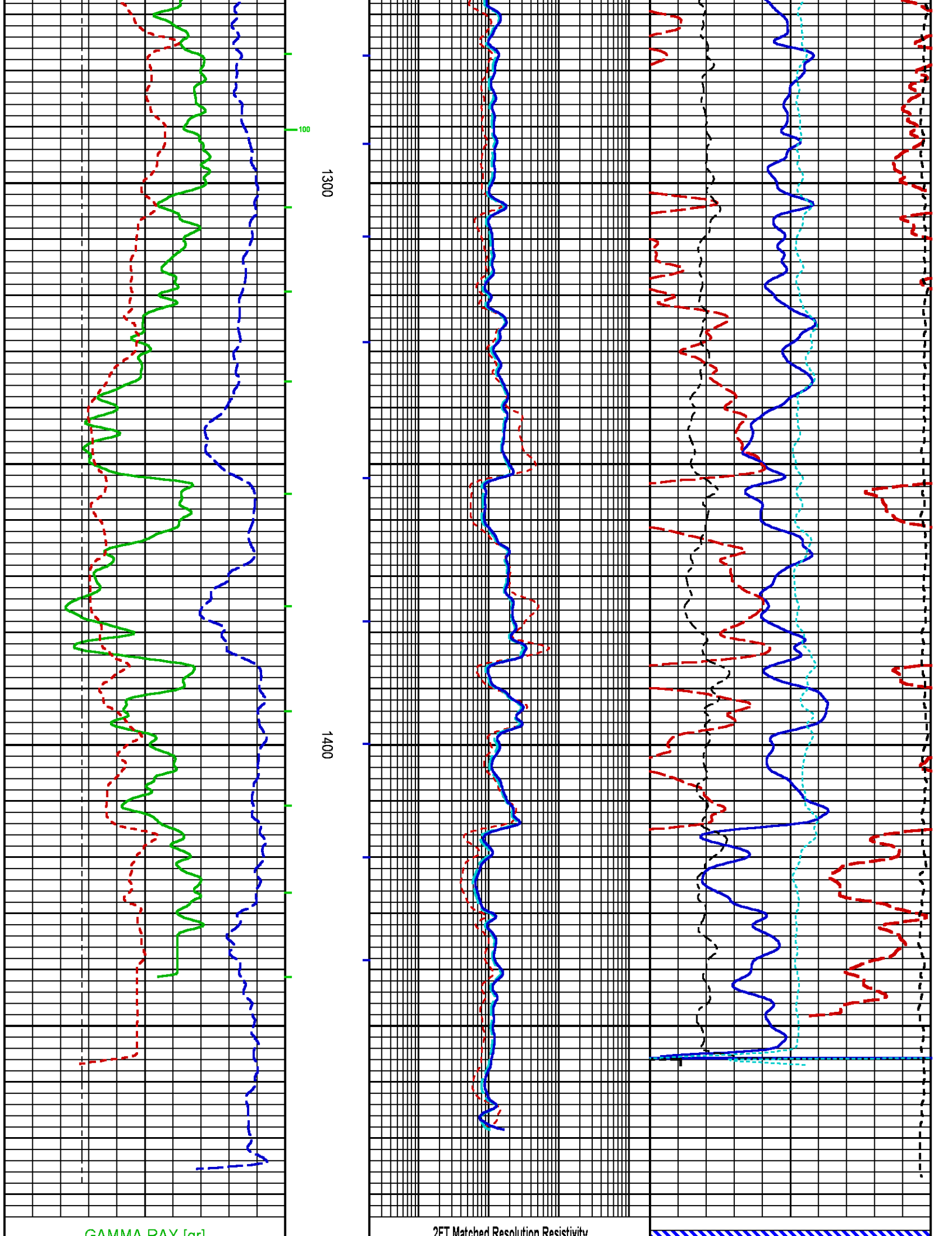
CURVE MEASURE POINT OFFSET

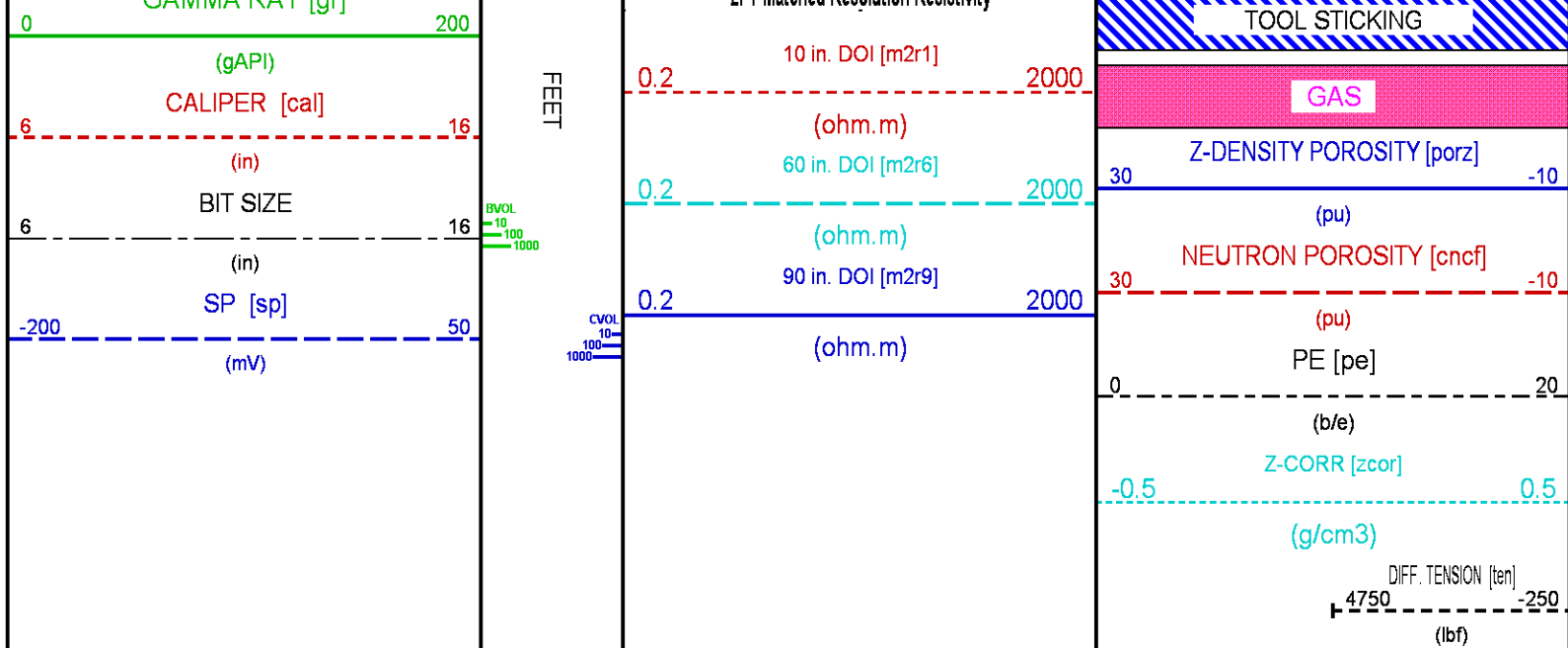
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
BIT	0.00	GR	35.00	M2R9	2.75	SP	1.25
CAL	18.12	M2R1	2.75	PE	18.00	TEN	0.00
CNCF	27.38	M2R6	2.75	PORZ	18.00	ZCOR	18.00

Presentation : cas6685:/dat1a/86223J/WPX_REPEAT2.fvpd [5"/100' Scale]
Plot Interval : 1180 - 1484.25 Feet

Data File 1 : F1 : cas6685:/dat1a/86223J/n970a02-REPEAT.xtf
Created On : May 19 10:24:02 2014
Company : WPX ENERGY ROCKY MTN LLC
Well : PA 313-6
Field : RULISON
File Interval : 0 - 1485.5 Feet
OCT : n970a







CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/86223J/n970a.tp1

TTMA PRIMARY CALIBRATION SUMMARY

TOOL #: 3980XA 10120299

DATE/TIME PERFORMED: Wed Jul 31 10:29:42 2013

UNIT #: 3880TA HL6670

ACCEL #: 3980XA 10120299

ACCEL CAL DATE: 14:43 05/21/2004

GAIN OFFSET
(ohm.m)
Rm K Factors 0.14570 -0.01679

Rm Measurements	Sig Low (ohm)	Sig High (ohm)	Mult Factor	Add Factor	Engr Low (ohm)	Engr High (ohm)
	0.25	9.97	1.003059	0.000362	0.25	10.00
	0.20 0.30	8.00 12.00				

TTMA BEFORE LOG VERIFICATION SUMMARY

TOOL #: 3980XA 10120299

DATE/TIME PERFORMED: Mon May 19 10:04:31 2014

DAYS SINCE CAL: 291

UNIT #: 3885TC 6685

	CHT (lbf)	MUD TEMP (degF)	RES M Q (ohm)	ACCEL Q
CAL	18832	498.91	9.96	997.69
	18030 19630	491.36 505.76	8.00 12.00	980.00 1020.00
ZERO	-23331	-436.02	0.249	997.511
	-24131 -22531	-443.20 -428.80	0.200 0.300	980.000 1020.000

TTMA AFTER LOG VERIFICATION SUMMARY

TOOL #: 3980XA 10120299

DATE/TIME PERFORMED: Mon May 19 13:24:32 2014

DAYS SINCE CAL: 292

UNIT #: 3885TC 6685

	CHT (lbf)	MUD TEMP (degF)	RES M Q (ohm)	ACCEL Q
CAL	18837	499.64	9.95	998.02
	18030 19630	491.36 505.76	8.00 12.00	980.00 1020.00

ZERO	-23331	-436.02	0.249	998.026
-24131	-22531	-443.20	-428.80	0.200 0.300
				980.000 1020.000

GR PRIMARY CALIBRATION SUMMARY

Tool #: 3518EG 10127973

DATE/TIME PERFORMED: Sun May 18 12:21:40 2014

Unit #: 3885TC 6685

Jig Series: 4702NK VBA-905

Background	Calibrator ON	Jig Value (gAPI)	Mult	Background (gAPI)	Calibrator ON (gAPI)
93.99	763.66	185	0.276	25.97	210.97
			0.230 0.280		

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 3518EG 10127973

DATE/TIME PERFORMED: Mon May 19 10:04:27 2014

DAYS SINCE CAL: 0

UNIT #: 3885TC 6685

Jig: INTRNL N/A

Counts	TEMP (degF)	HV (V)
976.67	84.81	1361.74
929.00 1027.00	536.00	1237.00 1512.00

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 3518EG 10127973

DATE/TIME PERFORMED: Mon May 19 13:24:25 2014

DAYS SINCE CAL: 1

UNIT #: 3885TC 6685

Jig: INTRNL N/A

Counts	TEMP (degF)	HV (V)
976.67	115.32	1364.70
929.00 1027.00	536.00	1237.00 1512.00

CN PRIMARY CALIBRATION SUMMARY

TOOL #: 2436XA 10137930

DATE/TIME PERFORMED: Wed Apr 2 14:18:58 2014

UNIT #: 3880TA HL6670

CALIBRATOR #: 2437XB 112674

SOURCE #: 4718XA N-0897

SSN DT CPS	LSN DT CPS	SSN/LSN	MCF	CNRATIO	CN PU
4697.69	785.20	5.98276	0.95892	5.73700	25.241
			0.95000 1.05000		

CN BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2436XA 10137930

DATE/TIME PERFORMED: Mon May 19 10:04:22 2014

DAYS SINCE CAL: 46

UNIT #: 3885TC 6685

CALIBRATOR #: INTRNL N/A

SSN DT CPS	LSN DT CPS	SSN/LSN	TEMP (degF)	HV (V)	LV (V)
991.40	993.76	0.99762	82.6	1358.6	4.612
		0.95000 1.05000	280.4	1250.0 1450.0	4.300 5.000

CN AFTER LOG VERIFICATION SUMMARY

TOOL #: 2436XA 10137930

DATE/TIME PERFORMED: Mon May 19 13:24:16 2014

DAYS SINCE CAL: 46

UNIT #: 3885TC 6685

CALIBRATOR #: INTRNL N/A

SSN DT CPS	LSN DT CPS	SSN/LSN	TEMP (degF)	HV (V)	LV (V)
992.41	994.44	0.99797	112.8	1363.0	4.612
		0.95000 1.05000	280.4	1250.0 1450.0	4.300 5.000

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2223XA 10102922

DATE/TIME PERFORMED: Fri May 2 09:59:35 2014

UNIT #: 3880TA HL6670

	SIZE (in)	VALUE	MULTIPLIER	ADD
SMALL RING (Arm)	7.000	1580.0		
LARGE RING (Arm)	11.000	2828.0	0.00321	1.93590
PAD CLOSED		1292.0	0.00250	-3.23000

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10102922

DATE/TIME PERFORMED: Mon May 19 10:32:47 2014

DAYS SINCE CAL: 17

UNIT #: 3885TC 6685

	VALUE	MULTIPLIER	ADD	SIZE (in)
ARM	2252.0	0.00321	1.93590	9.2
PAD	1360.0	0.00250	-3.23000	0.2

	ACTUAL (in)	MEASURED (in)
DIAMETER (arm+pad)	9.001	9.0
		8.6 9.4

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10102922

DATE/TIME PERFORMED: Mon May 19 13:22:20 2014

DAYS SINCE CAL: 17

UNIT #: 3885TC 6685

	VALUE	MULTIPLIER	ADD	SIZE (in)
ARM	2256.0	0.00321	1.93590	9.2
PAD	1336.0	0.00250	-3.23000	0.1

	ACTUAL (in)	MEASURED (in)
DIAMETER (arm+pad)	9.001	9.0
		8.6 9.4

ZDL PRIMARY CALIBRATION SUMMARY

TOOL: 2223XA 10102922

DATE/TIME PERFORMED: Fri May 2 09:51:52 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)		
	226.8	224.4	1249.2	1392.4		
	220.0 230.0	220.0 230.0				
	SS (cps)	LS (cps)	SHR	DEN (g/cm3)	CORR (g/cm3)	PE (b/e)
MG (LO PE)	35965.6	12033.6	0.755	1.679	0.000	1.900
			0.720 0.890			
AL	22653.8	1363.9		2.667	-0.016	
AL + SHIM	29963.5	2367.5		2.558	0.098	

Coil 5 Q	-0.0400 -1.5000 1.5000	-0.0261 -0.8000 0.8000	0.0143 -0.4000 0.4000	-0.0198 -0.4000 0.4000	0.0060 -0.4000 0.4000	-0.0097 -0.4000 0.4000	0.0083 -0.4000 0.4000	-0.0060 -0.4000 0.4000
ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	163.06 136.00 186.00	161.65 134.00 184.00	158.79 131.00 181.00	154.56 126.00 176.00	148.96 122.00 170.00	142.06 118.00 161.00	133.99 112.00 150.00	124.73 105.00 139.00
Coil 0 P	7.674 6.000 9.000	25.240 21.000 30.000	42.370 35.000 50.000	59.458 49.000 71.000	76.552 63.000 91.000	93.666 77.000 109.000	110.821 92.000 130.000	127.954 106.000 151.000
Coil 1 M	281.66 238.00 328.00	279.14 235.00 325.00	274.04 230.00 320.00	266.44 225.00 312.00	256.48 218.00 302.00	244.13 208.00 288.00	229.67 196.00 266.00	213.18 184.00 244.00
Coil 1 P	7.844 6.000 9.000	25.720 21.000 30.000	43.167 35.000 51.000	60.580 49.000 71.000	77.996 63.000 92.000	95.415 78.000 112.000	112.883 93.000 130.000	130.299 107.000 151.000
Coil 2 M	578.47 479.00 659.00	573.60 474.00 654.00	563.68 463.00 643.00	548.89 450.00 622.00	529.31 432.00 602.00	504.78 412.00 572.00	475.98 390.00 540.00	442.89 359.00 499.00
Coil 2 P	7.964 6.000 9.000	26.114 21.000 31.000	43.846 35.000 51.000	61.558 49.000 71.000	79.291 63.000 92.000	97.067 76.000 115.000	114.892 92.000 135.000	132.704 105.000 155.000
Coil 3 M	925.75 772.00 1060.00	917.66 764.00 1050.00	901.13 752.00 1030.00	876.42 728.00 1010.00	844.08 700.00 970.00	803.95 665.00 925.00	756.94 628.00 868.00	702.73 589.00 799.00
Coil 3 P	7.767 6.000 10.000	25.546 21.000 30.000	42.898 35.000 51.000	60.208 49.000 72.000	77.518 63.000 93.000	94.862 76.000 114.000	112.225 90.000 135.000	129.553 104.000 156.000
Coil 4 M	1453.6 1210.0 1700.0	1440.2 1205.0 1690.0	1412.5 1180.0 1650.0	1371.6 1140.0 1590.0	1318.0 1120.0 1530.0	1252.6 1070.0 1450.0	1176.7 1000.0 1350.0	1090.2 942.0 1240.0
Coil 4 P	7.866 6.000 10.000	25.838 21.000 31.000	43.376 35.000 52.000	60.844 49.000 73.000	78.277 63.000 93.000	95.713 77.000 114.000	113.107 91.000 135.000	130.407 105.000 156.000
Coil 5 M	2983.3 2450.0 3450.0	2960.7 2420.0 3400.0	2911.3 2410.0 3320.0	2836.3 2350.0 3200.0	2735.9 2280.0 3080.0	2611.5 2150.0 2950.0	2463.8 2020.0 2750.0	2292.2 1870.0 2570.0
Coil 5 P	7.916 6.000 10.000	26.013 20.000 31.000	43.723 35.000 52.000	61.396 49.000 73.000	79.117 63.000 94.000	96.902 79.000 113.000	114.759 93.000 134.000	132.605 106.000 156.000
AM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-1097 -3200 940	-658 -1400 -20	-537 -930 -150	-464 -760 -160	-412 -660 -130	-373 -600 -120	-342 -550 -110	-318 -520 -92
Coil 0 Q	-1163 -15000 11000	-686 -5800 3800	-547 -3700 2100	-490 -2700 1400	-460 -2200 1000	-442 -1800 790	-431 -1600 620	-425 -1500 490
Coil 1 R	-141 -750 -460	-154 -360 83	-146 -280 9	-134 -230 -10	-123 -200 -26	-114 -180 -35	-106 -160 -46	-99 -150 -49
Coil 1 Q	-121 -3300 3300	-79 -1100 960	-75 -630 530	-77 -470 360	-78 -380 260	-79 -320 190	-79 -290 150	-80 -260 120
Coil 2 R	2.3 -85.0 76.0	-34.0 -64.0 -0.4	-36.0 -57.0 -12.0	-33.9 -51.0 -16.0	-31.1 -46.0 -17.0	-28.4 -42.0 -16.0	-25.6 -39.0 -15.0	-23.7 -37.0 -13.0
Coil 2 Q	422.6 -1500.0 1900.0	141.1 -500.0 610.0	80.2 -290.0 350.0	54.6 -220.0 260.0	40.6 -160.0 190.0	32.6 -140.0 160.0	27.9 -110.0 130.0	25.4 -99.0 120.0
Coil 3 R	1.3 -23.0 21.0	-7.5 -22.0 1.6	-8.9 -21.0 -1.3	-8.6 -20.0 -1.8	-9.0 -19.0 -2.0	-8.1 -19.0 -1.3	-7.8 -19.0 -0.8	-7.5 -19.0 -0.0
Coil 3 Q	124.6 -540.0 530.0	45.6 -180.0 180.0	31.0 -100.0 110.0	25.3 -71.0 81.0	23.3 -51.0 66.0	23.0 -37.0 58.0	23.2 -28.0 53.0	24.6 -21.0 51.0
Coil 4 R	0.46 -18.00 13.00	-1.57 -12.00 2.70	-1.66 -11.00 1.50	-1.72 -9.80 0.52	-3.24 -9.90 0.96	-1.70 -10.00 1.50	-1.38 -11.00 2.30	-1.38 -11.00 2.60
Coil 4 Q	1.20 -250.00 280.00	2.60 -79.00 98.00	3.65 -43.00 64.00	4.85 -27.00 51.00	7.87 -18.00 46.00	8.01 -11.00 42.00	9.87 -5.50 42.00	10.34 -1.00 42.00
Coil 5 R	1.03 -56.00 51.00	0.44 -8.40 3.60	-0.40 -6.90 1.10	-0.20 -6.90 1.20	-1.64 -9.30 2.90	-0.31 -14.00 6.30	-0.38 -19.00 9.60	0.29 -24.00 13.00
Coil 5 Q	0.20 -88.00 69.00	2.11 -26.00 27.00	3.66 -14.00 22.00	4.49 -7.00 22.00	3.78 -2.50 24.00	6.86 1.10 26.00	8.64 4.10 29.00	9.90 7.10 32.00
MM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	0.966 0.850 1.100	0.975 0.860 1.100	0.979 0.870 1.100	0.981 0.880 1.100	0.982 0.880 1.100	0.982 0.880 1.100	0.983 0.880 1.100	0.982 0.880 1.100
Coil 0 P	-0.316 -1.500 1.500	-0.485 -1.500 1.500	-0.379 -1.500 1.500	-0.260 -1.500 1.500	-0.175 -1.500 1.500	-0.101 -1.500 1.500	-0.026 -1.500 1.500	-0.005 -1.500 1.500
Coil 1 M	0.961 0.850 1.100	0.970 0.860 1.100	0.974 0.870 1.100	0.976 0.880 1.100	0.977 0.880 1.100	0.977 0.880 1.100	0.977 0.880 1.100	0.977 0.880 1.100
Coil 1 P	-0.296 -1.500 1.500	-0.476 -1.500 1.500	-0.360 -1.500 1.500	-0.238 -1.500 1.500	-0.134 -1.500 1.500	-0.087 -1.500 1.500	-0.032 -1.500 1.500	0.016 -1.500 1.500
Coil 2 M	0.986 0.890 1.100	0.987 0.890 1.100	0.987 0.890 1.100	0.986 0.890 1.100	0.986 0.890 1.100	0.985 0.890 1.100	0.985 0.890 1.100	0.985 0.890 1.100
Coil 2 P	0.044 -1.500 1.500	0.046 -1.500 1.500	0.090 -1.500 1.500	0.134 -1.500 1.500	0.151 -1.500 1.500	0.175 -1.500 1.500	0.211 -1.500 1.500	0.219 -1.500 1.500
Coil 3 M	0.994 0.900 1.100	0.994 0.900 1.100	0.994 0.900 1.100	0.994 0.900 1.100	0.993 0.900 1.100	0.992 0.900 1.100	0.992 0.900 1.100	0.990 0.900 1.100
Coil 3 P	0.048 -1.500 1.500	0.082 -1.500 1.500	0.138 -1.500 1.500	0.198 -1.500 1.500	0.236 -1.500 1.500	0.286 -1.500 1.500	0.334 -1.500 1.500	0.350 -1.500 1.500
Coil 4 M	0.999 0.900 1.100	0.999 0.900 1.100	1.000 0.900 1.100	0.999 0.900 1.100	1.000 0.900 1.100	1.000 0.900 1.100	1.000 0.900 1.100	0.999 0.900 1.100
Coil 4 P	0.116 -1.500 1.500	0.124 -1.500 1.500	0.210 -1.500 1.500	0.286 -1.500 1.500	0.396 -1.500 1.500	0.454 -1.500 1.500	0.525 -1.500 1.500	0.577 -1.500 1.500
Coil 5 M	1.003 0.900 1.100	1.002 0.900 1.100	1.003 0.900 1.100	1.003 0.900 1.100	1.002 0.900 1.100	1.005 0.900 1.100	1.007 0.900 1.100	1.007 0.900 1.100

Coil 5 P	0.040 -1.500 1.500	0.106 -1.500 1.500	0.264 -1.500 1.500	0.377 -1.500 1.500	0.561 -1.500 1.500	0.694 -1.500 1.500	0.775 -1.500 1.500	0.910 -1.500 1.500
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PARMS	TCID 0	TCID 1	Cal Temp (degF)	T Factor
IDs	2.831	0.846	50.4	1.00

HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL #:	1530XA 10121806	DATE/TIME PERFORMED:	Mon May 19 10:05:40 2014	DAYS SINCE CAL:	131
		UNIT #:	3885TC 6685		

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.002 -0.200 0.200	-0.002 -0.100 0.100	-0.001 -0.100 0.100	0.002 -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
Coil 0 Q	-0.005 -0.500 0.500	-0.001 -0.200 0.200	0.001 -0.100 0.100	0.000 -0.100 0.100	0.001 -0.100 0.100	-0.001 -0.100 0.100	0.001 -0.100 0.100	0.000 -0.100 0.100
Coil 1 R	-0.001 -0.200 0.200	0.000 -0.100 0.100	-0.002 -0.100 0.100	0.001 -0.100 0.100	-0.002 -0.100 0.100	-0.001 -0.100 0.100	0.001 -0.100 0.100	-0.001 -0.100 0.100
Coil 1 Q	-0.017 -0.500 0.500	-0.001 -0.200 0.200	0.001 -0.100 0.100	-0.001 -0.100 0.100	0.000 -0.100 0.100	0.003 -0.100 0.100	0.001 -0.100 0.100	0.000 -0.100 0.100
Coil 2 R	0.002 -0.200 0.200	-0.006 -0.100 0.100	0.003 -0.100 0.100	-0.003 -0.100 0.100	0.002 -0.100 0.100	0.001 -0.100 0.100	0.001 -0.100 0.100	-0.000 -0.100 0.100
Coil 2 Q	-0.012 -0.500 0.500	-0.000 -0.200 0.200	0.004 -0.100 0.100	-0.001 -0.100 0.100	0.001 -0.100 0.100	0.003 -0.100 0.100	0.002 -0.100 0.100	-0.002 -0.100 0.100
Coil 3 R	0.011 -0.300 0.300	-0.003 -0.100 0.100	0.004 -0.100 0.100	-0.000 -0.100 0.100	0.001 -0.100 0.100	0.003 -0.100 0.100	-0.002 -0.100 0.100	0.002 -0.100 0.100
Coil 3 Q	-0.020 -0.500 0.500	-0.007 -0.200 0.200	0.003 -0.100 0.100	-0.000 -0.100 0.100	-0.007 -0.100 0.100	-0.002 -0.100 0.100	0.001 -0.100 0.100	0.001 -0.100 0.100
Coil 4 R	0.023 -0.500 0.500	-0.004 -0.200 0.200	0.001 -0.200 0.200	-0.001 -0.200 0.200	-0.007 -0.200 0.200	-0.005 -0.200 0.200	0.004 -0.200 0.200	0.006 -0.200 0.200
Coil 4 Q	-0.032 -1.000 1.000	-0.004 -0.400 0.400	0.007 -0.200 0.200	-0.002 -0.200 0.200	0.000 -0.200 0.200	0.001 -0.200 0.200	0.004 -0.200 0.200	0.007 -0.200 0.200
Coil 5 R	0.038 -1.200 1.200	-0.008 -0.400 0.400	-0.026 -0.400 0.400	0.015 -0.400 0.400	-0.017 -0.400 0.400	-0.004 -0.400 0.400	0.002 -0.400 0.400	-0.008 -0.400 0.400
Coil 5 Q	-0.047 -1.500 1.500	-0.033 -0.800 0.800	-0.003 -0.400 0.400	0.008 -0.400 0.400	-0.007 -0.400 0.400	0.008 -0.400 0.400	-0.001 -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
Coil 0 M	162.62 136.00 186.00	161.19 134.00 184.00	158.32 131.00 181.00	154.08 126.00 176.00	148.50 122.00 170.00	141.64 118.00 161.00	133.56 112.00 150.00	124.33 105.00 139.00
Coil 0 P	7.653 -1.000 12.000	25.288 19.000 30.000	42.464 35.000 50.000	59.596 49.000 71.000	76.733 63.000 91.000	93.889 77.000 110.000	111.061 92.000 130.000	128.233 105.000 151.000
Coil 1 M	281.63 237.00 327.00	279.08 235.00 325.00	273.97 230.00 320.00	266.39 225.00 312.00	256.42 218.00 302.00	244.13 208.00 288.00	229.65 196.00 266.00	213.19 184.00 244.00
Coil 1 P	7.823 -1.000 12.000	25.757 19.000 30.000	43.246 35.000 51.000	60.691 49.000 71.000	78.145 63.000 92.000	95.610 77.000 112.000	113.097 92.000 132.000	130.546 105.000 153.000
Coil 2 M	577.54 479.00 659.00	572.65 474.00 654.00	562.77 463.00 643.00	547.96 450.00 622.00	528.37 432.00 602.00	504.06 412.00 572.00	475.12 390.00 540.00	442.05 359.00 499.00
Coil 2 P	7.943 -1.000 12.000	26.160 19.000 31.000	43.936 35.000 51.000	61.685 49.000 71.000	79.464 63.000 92.000	97.274 77.000 114.000	115.127 92.000 135.000	132.985 105.000 156.000
Coil 3 M	924.94 772.00 1060.00	916.75 764.00 1050.00	900.19 752.00 1030.00	875.43 728.00 1010.00	842.96 700.00 970.00	802.96 665.00 925.00	755.66 628.00 868.00	701.60 589.00 799.00
Coil 3 P	7.723 -2.000 13.000	25.588 19.000 31.000	42.991 35.000 52.000	60.348 49.000 72.000	77.707 63.000 93.000	95.080 77.000 114.000	112.477 92.000 135.000	129.840 105.000 156.000
Coil 4 M	1455.8 1210.0 1700.0	1442.2 1205.0 1690.0	1414.5 1180.0 1650.0	1373.5 1140.0 1590.0	1320.0 1120.0 1530.0	1254.3 1070.0 1450.0	1177.7 1000.0 1350.0	1091.7 942.0 1240.0
Coil 4 P	7.850 -2.000 13.000	25.889 19.000 31.000	43.467 35.000 52.000	60.970 49.000 73.000	78.453 63.000 93.000	95.919 78.000 114.000	113.351 92.000 135.000	130.690 105.000 156.000
Coil 5 M	2980.0 2450.0 3450.0	2956.8 2420.0 3400.0	2907.6 2410.0 3320.0	2832.6 2350.0 3200.0	2733.2 2280.0 3080.0	2608.5 2150.0 2950.0	2459.5 2020.0 2750.0	2287.9 1870.0 2570.0
Coil 5 P	7.889 -2.000 13.000	26.076 19.000 31.000	43.841 35.000 52.000	61.577 49.000 73.000	79.365 63.000 94.000	97.181 79.000 114.000	115.062 93.000 135.000	132.933 106.000 156.000

HDIL AFTER LOG VERIFICATION SUMMARY

TOOL #:	1530XA 10121806	DATE/TIME PERFORMED:	Mon May 19 13:25:09 2014	DAYS SINCE CAL:	131
		UNIT #:	3885TC 6685		

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.004	0.001	0.000	0.002	0.001	-0.001	0.000	0.001

Coil 0 Q	-0.003 -0.045 0.035	-0.001 -0.121 0.119	0.001 -0.029 0.031	-0.000 -0.030 0.030	0.000 -0.029 0.031	-0.000 -0.031 0.029	0.001 -0.029 0.031	0.001 -0.030 0.030
Coil 1 R	0.006 -0.081 0.079	-0.003 -0.050 0.050	-0.002 -0.032 0.028	0.001 -0.029 0.031	0.001 -0.032 0.028	0.001 -0.031 0.029	-0.000 -0.029 0.031	-0.000 -0.031 0.029
Coil 1 Q	-0.016 -0.417 0.383	-0.001 -0.101 0.099	0.001 -0.029 0.031	0.000 -0.031 0.029	0.001 -0.030 0.030	0.001 -0.027 0.033	0.001 -0.029 0.031	0.001 -0.030 0.030
Coil 2 R	0.005 -0.068 0.072	-0.001 -0.036 0.024	0.002 -0.027 0.033	-0.002 -0.033 0.027	-0.002 -0.028 0.032	-0.000 -0.029 0.031	-0.000 -0.029 0.031	0.000 -0.030 0.030
Coil 2 Q	-0.008 -0.362 0.338	0.004 -0.100 0.100	-0.000 -0.026 0.034	0.002 -0.031 0.029	0.003 -0.029 0.031	-0.001 -0.027 0.033	0.002 -0.028 0.032	-0.004 -0.032 0.028
Coil 3 R	0.013 -0.029 0.051	-0.007 -0.043 0.037	-0.003 -0.036 0.044	0.002 -0.040 0.040	-0.005 -0.039 0.041	0.007 -0.037 0.043	0.002 -0.042 0.038	0.004 -0.038 0.042
Coil 3 Q	-0.007 -0.220 0.180	-0.007 -0.087 0.073	-0.002 -0.037 0.043	-0.000 -0.040 0.040	-0.003 -0.047 0.033	-0.005 -0.042 0.038	-0.004 -0.039 0.041	0.004 -0.039 0.041
Coil 4 R	0.023 -0.037 0.083	-0.015 -0.064 0.056	-0.016 -0.059 0.061	0.012 -0.061 0.059	-0.007 -0.067 0.053	0.004 -0.065 0.055	-0.002 -0.056 0.064	-0.005 -0.054 0.066
Coil 4 Q	-0.016 -0.332 0.268	-0.008 -0.104 0.096	-0.007 -0.053 0.067	-0.003 -0.062 0.058	0.000 -0.060 0.060	0.003 -0.059 0.061	-0.002 -0.056 0.064	0.004 -0.053 0.067
Coil 5 R	0.056 -0.082 0.158	-0.006 -0.128 0.112	-0.010 -0.146 0.094	0.013 -0.105 0.135	-0.005 -0.137 0.103	0.005 -0.124 0.116	0.012 -0.118 0.122	-0.012 -0.128 0.112
Coil 5 Q	-0.030 -0.647 0.553	-0.020 -0.283 0.217	0.004 -0.123 0.117	-0.004 -0.112 0.128	-0.014 -0.127 0.113	0.007 -0.112 0.128	0.000 -0.121 0.119	0.008 -0.123 0.117

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	162.32 159.36 165.87	160.89 157.97 164.41	158.02 155.16 161.49	153.76 151.00 157.16	148.19 145.53 151.47	141.28 138.81 144.47	133.27 130.89 136.23	124.01 121.85 126.82
Coil 0 P	7.389 4.653 10.653	25.253 22.288 28.288	42.509 39.464 45.464	59.687 56.596 62.596	76.871 73.733 79.733	94.058 90.889 96.889	111.264 108.061 114.061	128.487 125.233 131.233
Coil 1 M	281.71 275.99 287.26	279.16 273.50 284.66	274.01 268.48 279.45	266.40 261.06 271.72	256.47 251.29 261.55	244.10 239.25 249.01	229.59 225.06 234.24	213.17 208.92 217.45
Coil 1 P	7.572 4.823 10.823	25.719 22.757 28.757	43.279 40.246 46.246	60.769 57.691 63.691	78.262 75.145 81.145	95.756 92.610 98.610	113.281 110.097 116.097	130.765 127.546 133.546
Coil 2 M	577.06 565.99 589.09	572.11 561.19 584.10	562.15 551.51 574.02	547.35 537.00 558.92	527.81 517.81 538.94	503.33 493.98 514.14	474.72 465.62 484.63	441.51 433.21 450.89
Coil 2 P	7.663 4.943 10.943	26.119 23.160 29.160	43.978 40.936 46.936	61.784 58.685 64.685	79.599 76.464 82.464	97.453 94.274 100.274	115.340 112.127 118.127	133.230 129.985 135.985
Coil 3 M	924.45 906.44 943.44	916.23 898.42 935.09	899.51 882.19 918.20	874.74 857.93 892.94	842.31 826.10 859.82	801.98 786.90 819.02	754.98 740.55 770.77	700.76 687.57 715.64
Coil 3 P	7.434 4.723 10.723	25.560 22.588 28.588	43.048 39.991 45.991	60.455 57.348 63.348	77.866 74.707 80.707	95.274 92.080 98.080	112.720 109.477 115.477	130.131 126.840 132.840
Coil 4 M	1457.4 1426.6 1484.9	1443.7 1413.3 1471.0	1415.7 1386.2 1442.8	1374.7 1346.0 1401.0	1320.9 1293.6 1346.4	1255.1 1229.2 1279.4	1179.0 1154.2 1201.3	1092.9 1069.8 1113.5
Coil 4 P	7.593 4.850 10.850	25.862 22.889 28.889	43.526 40.467 46.467	61.073 57.970 63.970	78.597 75.453 81.453	96.105 92.919 98.919	113.570 110.351 116.351	130.962 127.690 133.690
Coil 5 M	2978.3 2920.4 3039.6	2955.1 2897.7 3016.0	2905.0 2849.4 2965.8	2830.6 2776.0 2889.3	2730.7 2678.6 2787.9	2605.7 2556.4 2660.7	2456.8 2410.3 2508.6	2285.4 2242.2 2333.7
Coil 5 P	7.639 4.889 10.889	26.067 23.076 29.076	43.917 40.841 46.841	61.720 58.577 64.577	79.552 76.365 82.365	97.439 94.181 100.181	115.379 112.062 118.062	133.273 129.933 135.933

INSTRUMENT CONFIGURATION

Source File: /dat1a/86223J/n970a--tdg

FOCUS CABLEHEAD

Diameter : 3.12"
Length : 3.17'
Weight : 15 lbs
Series : CABL318
Mnemonic : CBLH

FOCUS SWIVEL

Diameter : 3.13"
Length : 2.58'
Weight : 50 lbs
Series : 3950XA
Mnemonic : SWVL

FOCUS TEN/TEMP/MUD RES/ACCEL

Diameter : 3.13"
Length : 4.31'



52.34'

Weight : 61 lbs
Series : 3980XA
Mnemonic : TTMA

FOCUS TELEMETRY (POWER SECTION)

Diameter : 3.13"
Length : 3.71'
Weight : 48 lbs
Series : 3518FB
Mnemonic : TMGR

FOCUS EB/EG TELEMETRY GAMMA RAY

Diameter : 3.12"
Length : 5.83'
Weight : 63 lbs
Series : 3518EG
Mnemonic : GR
Measure Point: 4.24': GR MP

FOCUS COMPENSATED NEUTRON

Diameter : 3.13"
Length : 4.81'
Weight : 65 lbs
Series : 2436XA
Mnemonic : CN
Measure Point: 1.92': LSN MP
Measure Point: 1.46': SSN MP

FOCUS Z-DENSILOG

Diameter : 3.75"
Length : 9.58'
Weight : 200 lbs
Series : 2223XA
Mnemonic : ZDL
Measure Point: 4.33': CR1 MP
Measure Point: 1.69': LSD / CR2 MP
Measure Point: 1.29': SSD MP

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

GR MP — 36.97'

LSN MP — 29.83'

SSN MP — 29.38'

CR1 MP — 22.67'

LSD / CR2 MP — 20.02'

SSD MP — 19.63'

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'

FOCUS PINEAPPLE / CABBAGE

HOLE FINDER

Diameter : 2.62"

Length : 1.50'

Weight : 7 lbs

Series : HFND18

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

COIL 1 MP 3.17'
COIL 0 MP 4.67'
SP MP 3.14'
0.00'



COMPANY

WPX ENERGY ROCKY MTN LLC

WELL

PA 313-6

FIELD

PARACHUTE

COUNTY

GARFIELD

STATE COLORADO

LOCATION:

SHL: 755' FSL 738' FWL S6 T7S R95W

BHL: 2170' FSL 346' FWL S6 T7S R95W

ELEVATIONS:

KB 5179 FT

DF

GL 5153 FT

SEC 6 TWP 7S RGE 95W

DATE 18-MAY-2014

FILE NO:

US086223J

API NO:

0504522250000

SEC 6 T7S R95W

PAD: PA 14-6

RIG: NABORS 574