



FILE NO:	COMPANY	MGM ENERGY CORP	
API NO:	WELL	MGM SHELL EAST MACKAY 1-78	
	FIELD	EAST MACKAY	
	PROVINCE	NORTHWEST TERRITORIES	
Ver. 3.87	LOCATION:		
UID:		OTHER SERVICES	
3001786450125 30		2ZDL-CN-GR-XYCAL	
LICENSE:		STAR-CBIL-GR, DSL	
1202		RTEX, XMAC-GR	
		FLEX-DSL, CVL	
		WREX, DIRSUR	
PERMANENT DATUM	G.L.	ELEVATION	ELEVATIONS:
LOG MEASURED FROM	K.B.	6.20 M	KB 161.20 M
DRILL. MEAS. FROM	KELLY BUSHING	ABOVE P.D.	DF
			GL 155.00 M
DATE	16-FEB-2013		
RUN	2	TRIP	1
SERVICE ORDER	CA215446		
DEPTH DRILLER	2001.0 M		
DEPTH LOGGER	1998.0 M		
BOTTOM LOGGED INTERVAL	1967.5 M		
TOP LOGGED INTERVAL	402.2 M		
CASING DRILLER	244.5 MM	Ø 401.8 M	Ø
CASING LOGGER	402.2 M		
BIT SIZE	222.0 MM		
TYPE OF FLUID IN HOLE	GELCHEM		
DENSITY	1075.0 G/L	80.0 CP	
PH	9.0	6.2 ML	
SOURCE OF SAMPLE	TOOL MEASURED		
RM AT MEAS. TEMP.	0.96 OHMM	Ø 15.0 DEGC	Ø
RMF AT MEAS. TEMP.	0.83 OHMM	Ø 15.0 DEGC	Ø
RMC AT MEAS. TEMP.	1.15 OHMM	Ø 15.0 DEGC	Ø
SOURCE OF RMF	CALCULATED	CALCULATED	
RM AT BHT	0.44 OHMM	Ø 59.1 DEGC	Ø
TIME SINCE CIRCULATION	15.8 HOURS		
MAX. RECORDED TEMP.	59.1 DEGC		
EQUIP. NO.	LOCATION	CANADA OPEN	
RECORDED BY	J. COLLIER/I. ZALESKI KH		
WITNESSED BY	D. PRIOR		

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCE 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
311.0 MM	0.0 M	401.8 M
222.0 MM	401.8 M	2001.0 M

CASING RECORD			
SIZE	WEIGHT	GRADE	FROM
244.5 MM	59.5 KG/M	NA	0.0 M
			401.8 M

REMARKS

RUN 2 TRIP 1 : TIME STOPPED CIRCULATION: 15-FEB-2013 04:00 PM

CORRELATED TO BAKER HUGHES WIRELINE 29-JAN-2013
GR FAILED NEAR 600M, SPLICED GR FROM DOWNLOG AT 659.0M
STUCK AT 1973.5M, LOGGED UP WHEN TOOLS BECAME FREE
REDROVE HDIL DATA FOR INTERVAL WHERE CALIPERS WERE CLOSED AND SPLICED TO - 1950
BOREHOLE AND TEMPERATURE CORRECTIONS HAVE BEEN APPLIED TO HDIL DATA.
HDIL RECORDED WITH AND CORRECTED TO 38.0 MM STANDOFF.
NO RPT RECORDED DUE TO HOLE CONDITIONS AND WE WILL BE RELOGGING BOTTOM
CALIPER PRESENTED WITH HDIL TO ASSIST WITH THE QC OF THE DATA.
NO AFTER LOG ON GR BECAUSE THE TOOL FAILED

RIG: AKITA 37

CREW: J. COLLIER, I. ZALESKI KH, J. WOODS, N. MCDERMID, J. PEREIRA, J. VAN DER HONING,

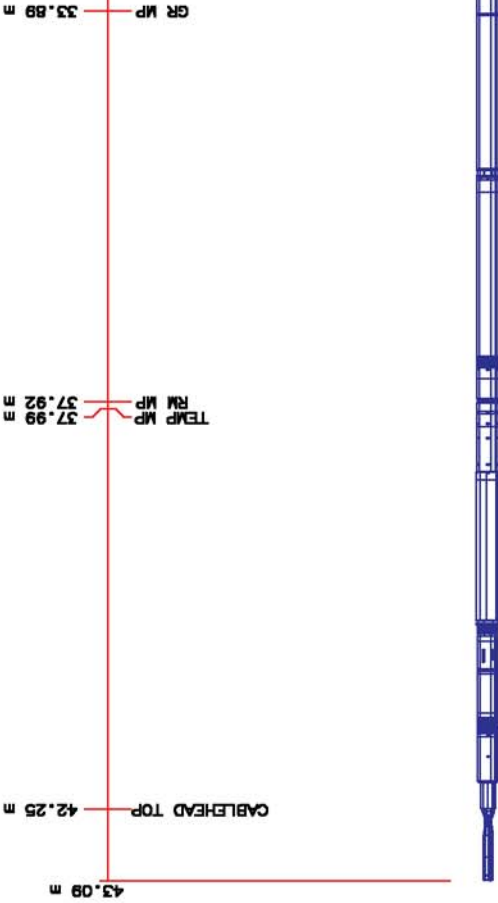
EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
2	1	SWIVEL	3944XD	10513050	FREE
2	1	DHPA	4430XB	10390598	FREE
2	1	TTRM SUB	3981XB	10516528	FREE
2	1	COMM	3514XB	10504656	FREE
2	1	WTS DGR/SU	1329XB	10293862	FREE
2	1	ORIT	4401XB	12466129	FREE
2	1	ACOUSTIC EL	1677EA	10383992	CENTRALIZED
2	1	XMAC RX MDR	1678MC	10386815	CENTRALIZED
2	1	XMAC ISO	1678PB	10039369	FREE
2	1	XMAC TX ELC	1678BA	12168167	CENTRALIZED
2	1	XMAC TX ELC	1678FA	12188364	CENTRALIZED
2	1	WTS DBL KNJ	3939XA	12448499	FREE
2	1	FOC/WTS ADP	3527EA	12337591	FREE
2	1	FOC/WTS ADP	3527FA	12494796	FREE
2	1	TMA SUB	3980XA	Z402456	FREE
2	1	FOCUS CN	2436XA	10105638	DECENTRALIZED
2	1	FOCUS ZDEN	2223XA	10391896	PAD DEVICE
2	1	DBL KNJ	3931XA	10469360	FREE
2	1	ALGNMNT SUB	4408NA	10265502	FREE
2	1	FOCUS ZDEN	2223XA	10102923	PAD DEVICE
2	1	DBL KNJ	3931XA	10308519	FREE
2	1	FOCUS HDL	1530XA	10125755	STANDOFF

INSTRUMENT CONFIGURATION

Source File: /data/MGM/run2_oh/run1-tdg

CABLEHEAD	Diameter	: 8.6 cm
	Length	: 167.6 cm
	Weight	: 10.9 kg
	Series	: CABL338
	Mnemonic	: CBLH
	Measure Point:	: 83.8 cm: CABLEHEAD TOP
SWIVEL	Diameter	: 8.6 cm
	Length	: 106.7 cm
	Weight	: 30.9 kg
	Series	: 3944XD
DOWNHOLE POWER ADAPTER	Diameter	: 9.2 cm
	Length	: 160.7 cm
	Weight	: 39.1 kg
	Series	: 4430XB
	Mnemonic	: DHPA
TTRM SUB	Diameter	: 9.2 cm
	Length	: 118.8 cm
	Weight	: 28.2 kg
	Series	: 3981XA
	Mnemonic	: TTRM
WTS COMMON REMOTE	Diameter	: 9.2 cm
	Length	: 194.0 cm
	Weight	: 57.3 kg
	Series	: 3514XB
	Mnemonic	: WTS
DIGITAL SPECTRLOG	Diameter	: 9.2 cm
	Length	: 222.8 cm
	Weight	: 59.1 kg
	Series	: 1328XA
	Mnemonic	: DSL
	Measure Point:	: 48.8 cm: GR MP



DIGITAL ORIENTATION	
Diameter	: 8.6 cm
Length	: 329.4 cm
Weight	: 50.0 kg
Series	: 4401XB
Mnemonic	: ORIT
Measure Point	: 0.0 cm: ORIENT MP

ARRAY ACOUSTIC LOG ELECTRONICS, B CHANNEL	
Diameter	: 8.6 cm
Length	: 238.3 cm
Weight	: 48.4 kg
Series	: 1677EA
Mnemonic	: XMAC

CROSS MULTIPOLE ARRAY ACOUSTIC LOG	
Diameter	: 9.5 cm
Length	: 332.4 cm
Weight	: 101.8 kg
Series	: 1678MC
Mnemonic	: XMF1

Measure Point	: 167.8 cm: R8
Measure Point	: 152.4 cm: R7
Measure Point	: 137.2 cm: R6
Measure Point	: 121.9 cm: R5
Measure Point	: 106.7 cm: R4
Measure Point	: 91.4 cm: R3
Measure Point	: 76.2 cm: R2
Measure Point	: 61.0 cm: R1

SHEAR WAVE ACOUSTIC LOG	
Diameter	: 9.2 cm
Length	: 152.4 cm
Weight	: 81.4 kg
Series	: 1678PB
Mnemonic	: XMAC

MULTI-POLE ARRAY ACOUSTIC	
Diameter	: 9.8 cm
Length	: 241.3 cm
Weight	: 77.3 kg
Series	: 1678BA
Mnemonic	: XMAC

Measure Point	: 195.8 cm: QUADRUPOLE T5
Measure Point	: 142.2 cm: MONOPOLE T2
Measure Point	: 142.2 cm: Y-DIPOLE T4
Measure Point	: 142.2 cm: X-DIPOLE T3
Measure Point	: 88.9 cm: MONOPOLE T1
Diameter	: 8.6 cm
Length	: 131.6 cm
Weight	: 26.4 kg
Series	: 1678FA
Mnemonic	: MAC

KNUCKLE JOINT (DOUBLE)	
Diameter	: 8.6 cm
Length	: 141.8 cm
Weight	: 40.9 kg
Series	: 3938XA
Mnemonic	: KNUJT

WTS FOCUS TELEMETRY TRANSFORMER SUB	
Diameter	: 9.2 cm
Length	: 165.7 cm
Weight	: 30.5 kg
Series	: 3528EB
Mnemonic	: ADAP

WTS FOCUS POWER ADAPTOR	
Diameter	: 9.2 cm
Length	: 110.2 cm
Weight	: 70.8 kg
Series	: 3528FB
Mnemonic	: ADAP

FOCUS TEN/TENP/MUD RES/ACCEL	
Diameter	: 8.0 cm
Length	: 131.4 cm
Weight	: 27.7 kg
Series	: 3980XA
Mnemonic	: TTMA

FOCUS COMPENSATED NEUTRON	
Diameter	: 8.0 cm
Length	: 146.7 cm
Weight	: 29.5 kg
Series	: 2438XA
Mnemonic	: CN
Measure Point	: 58.4 cm: LSN MP
Measure Point	: 44.5 cm: SSN MP

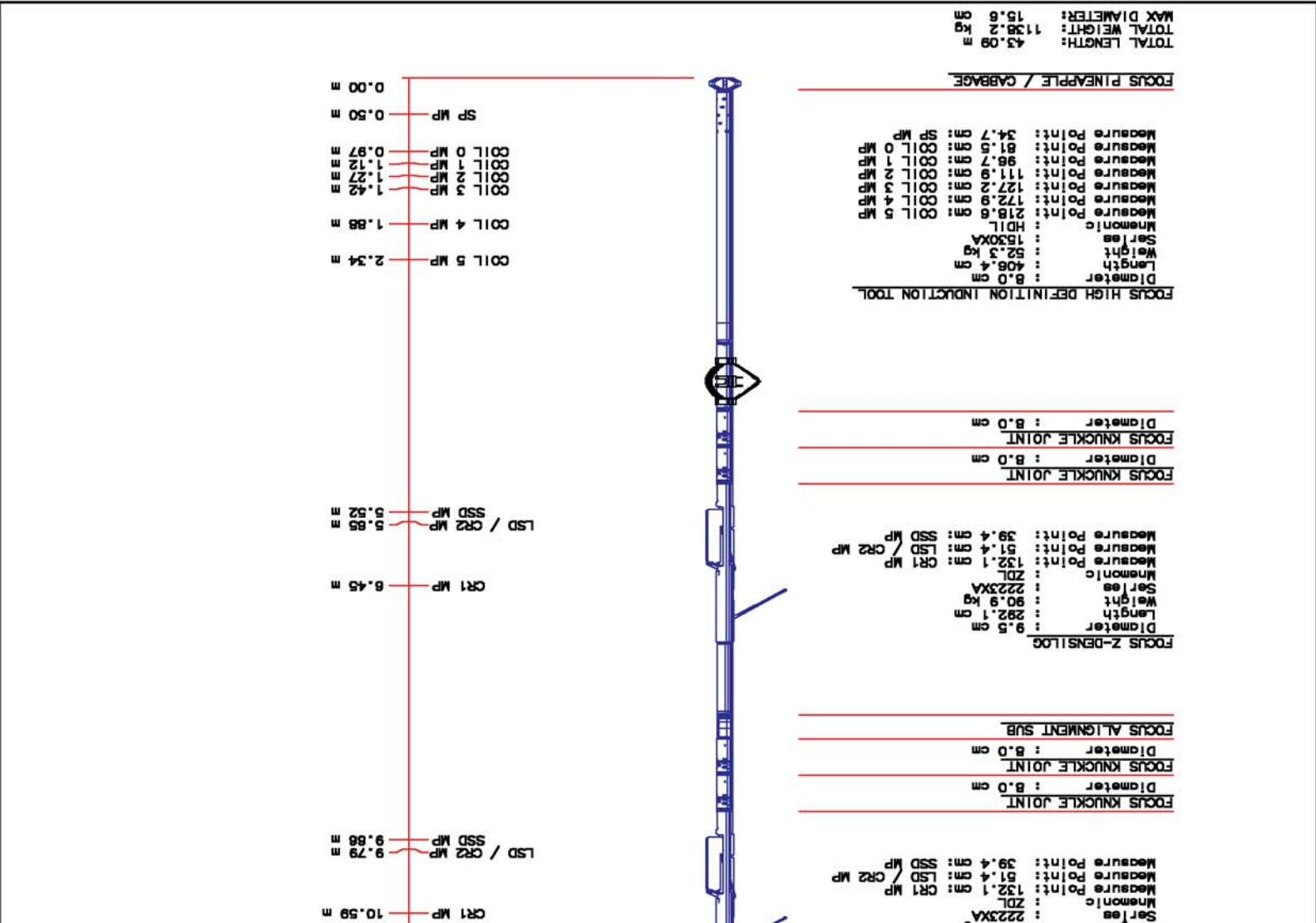
FOCUS Z-DENS LOG	
Diameter	: 8.5 cm
Length	: 292.1 cm
Weight	: 80.9 kg

ORIENT MP	: 30.11 m
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R8	: 26.08 m
R7	: 25.93 m
R6	: 25.77 m
R5	: 25.62 m
R4	: 25.47 m
R3	: 25.32 m
R2	: 25.17 m
R1	: 25.01 m

MONOPOLE T2	: 22.42 m
QUADRUPOLE T5	: 22.42 m
X-DIPOLE T3	: 21.89 m
Y-DIPOLE T4	: 21.89 m
MONOPOLE T1	: 21.36 m

LSN MP	: 12.78 m
SSN MP	: 12.64 m



MAIN LOG - UPPER PRESENTATION

ECLIPS 6.1! Aug 06, 2010
Updates: 1,2 Patches: 3

Sat Feb 16 16:45:31 2013

Perfit / main/62 Cplot Pdf_Cpp / main/16 Fileview 5.61

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/MGM/run2_oh/m980e02.prm
LOGGING MODE: DEPTH
TOP DEPTH: 336.788 m
BOTTOM DEPTH: 1994.840 m
DIRECTION: DOWN

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
BOREHOLE & CEMENT				
CHT	FILTER ()	medium (1)		TOP
TENSION	FILTER ()	medium (1)		"
GR	FILTER ()	medium (1)		"
SP-SPDH	FILTER ()	medium (1)		BOTTOM
SYMMETRIC FILTER				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)

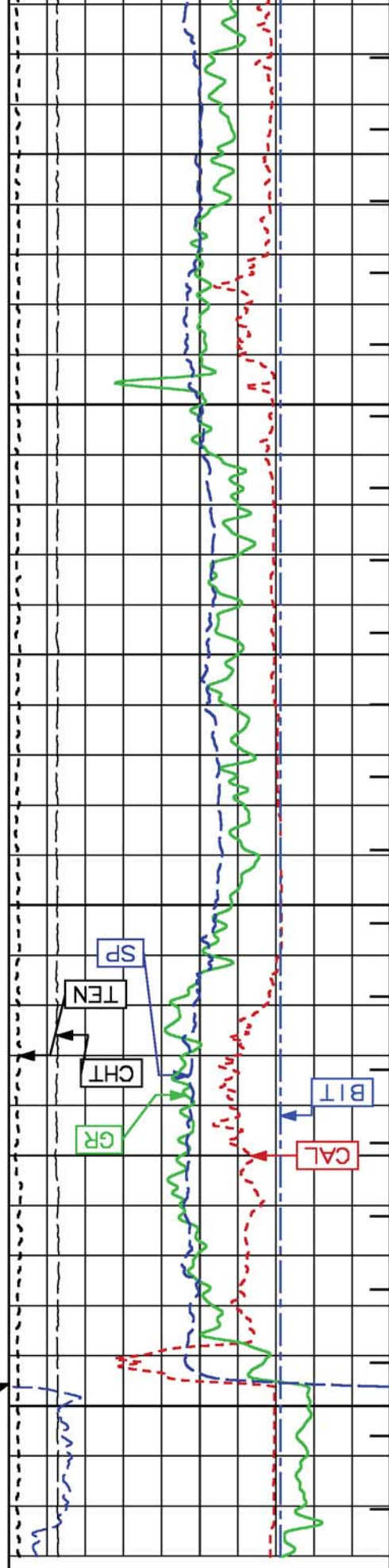
FILE: /data/gm/run2-oh/m980e07.prm LOGGING MODE: DEPTH UP TOP DEPTH: 353.008 m BOTTOM DEPTH: 1968.772 m									
PARAMETER AND FILTER SUMMARY REPORT									
MEASUREMENT TYPE		PARAMETER		VALUE		UNITS		INTERVAL (m)	
ADAPTIVE BOREHOLE CORRECTION									
HDIL TEMPERATURE CORRECTION		TEMP CORRECTION		ON		TOP		BOTTOM	
ABC PROCESSING		ABC PROCESSING		ON		TOP		BOTTOM	
ABC to CALCULATE		STANDOFF		STANDOFF		TOP		BOTTOM	
MUD SAMPLE RES		MUD SAMPLE RES		0.960		ohm.m		TOP	
MUD SAMPLE TEMP		MUD SAMPLE TEMP		1.270		ohm.m		TOP	
BH MUD RESISTIVITY SOURCE		RMUD SOURCE (HDIL)		46.4		degC		TOP	
MUD SAMPLE RESISTIVITY		MUD SAMPLE TEMP		32.4		degC		TOP	
X-Y COMBINED CALIPER PROCESSING		X-Y Caliper		Average		mm		TOP	
BIT SIZE		BIT SIZE		222.000		mm		TOP	
BH MUD RESISTIVITY SOURCE		RMUD SOURCE (HDIL)		TOOL MEASURED		mm		TOP	
MUD SAMPLE RESISTIVITY		MUD SAMPLE TEMP		20.5		degC		TOP	
MUD SAMPLE RES		MUD SAMPLE RES		0.960		ohm.m		TOP	
Known BH REF TEMP		Known BH REF TEMP		1.000		ohm.m		TOP	
Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC		TOP	
Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC		TOP	
Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC		TOP	
Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC		TOP	
Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC		TOP	
Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC		TOP	
Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC		TOP	
Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC		TOP	
Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC		TOP	
Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC		TOP	
Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC		TOP	
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Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC		TOP	
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Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC		TOP	
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Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC		TOP	
Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC		TOP	
Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC		TOP	
Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC		TOP	
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Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC		TOP	
Borehole TEMP from GRADIENT		Known BH REF TEMP		25.0		degC			

ABC to CALCULATE	STANDOFF	38.10	mm	STANDOFF	1.000	Rmud MULTIPLIER	..
TOOL POSITION	ECCENTERED	..	..	..	..	..	..

CURVE DESCRIPTION REPORT							
CURVE NAME				CREATION DATE		CURVE DESCRIPTION	
F1:BIT	Feb 16 07:26:57	2013	BIT SIZE	F1:GR	Feb 16 07:26:57	2013	GAMMA RAY
F1:CAL	Feb 16 07:26:57	2013	CALIPER	F1:M2CC9	Feb 16 07:26:57	2013	HDL 2-FOOT RESOLUTION COMPRESSED CONDUCTIVITY, 90-INCH DOI
F1:CHT	Feb 16 07:26:57	2013	CABLE HEAD TENSION	F1:M2R2	Feb 16 07:26:57	2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 20-INCH DOI
F1:MDTMP2	Feb 16 07:26:57	2013	MUD TEMPERATURE	F1:M2R9	Feb 16 07:26:57	2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:MMRK	Feb 16 07:26:57	2013	MINUTE MARK	F1:MDTMP2	Feb 16 07:26:57	2013	
F1:SP	Feb 16 07:26:57	2013	SPONTANEOUS POTENTIAL	F1:MDTMP2	Feb 16 07:26:57	2013	
F1:TEN	Feb 16 07:26:57	2013	DIFFERENTIAL TENSION	F1:MDTMP2	Feb 16 07:26:57	2013	

CURVE MEASURE POINT OFFSET							
CURVE		CURVE		CURVE		CURVE	
BIT	0.00	GR	33.76	M2R9	0.84	CAL	5.52
CHT	0.00	M2R2	0.84	SP	0.38		
CURVE		CURVE		CURVE		CURVE	
OFFSET (m)		OFFSET (m)		OFFSET (m)		OFFSET (m)	
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CURVE		CURVE		CURVE		CURVE	
CURVE		CURVE		CURVE		CURVE	
CURVE		CURVE		CURVE		CURVE	
CURVE		CURVE		CURVE		CURVE	
CURVE		CURVE		CURVE		CURVE	
CURVE		CURVE		CURVE		CURVE	
CURVE		CURVE		CURVE		CURVE	
CURVE		CURVE		CURVE		CURVE	
CURVE		CURVE		CURVE		CURVE	
CURVE		CURVE		CURVE		CURVE	
CURVE		CURVE		CURVE		CURVE	
CURVE		CURVE		CURVE		CURVE	
CURVE</							

MINUTE MARK

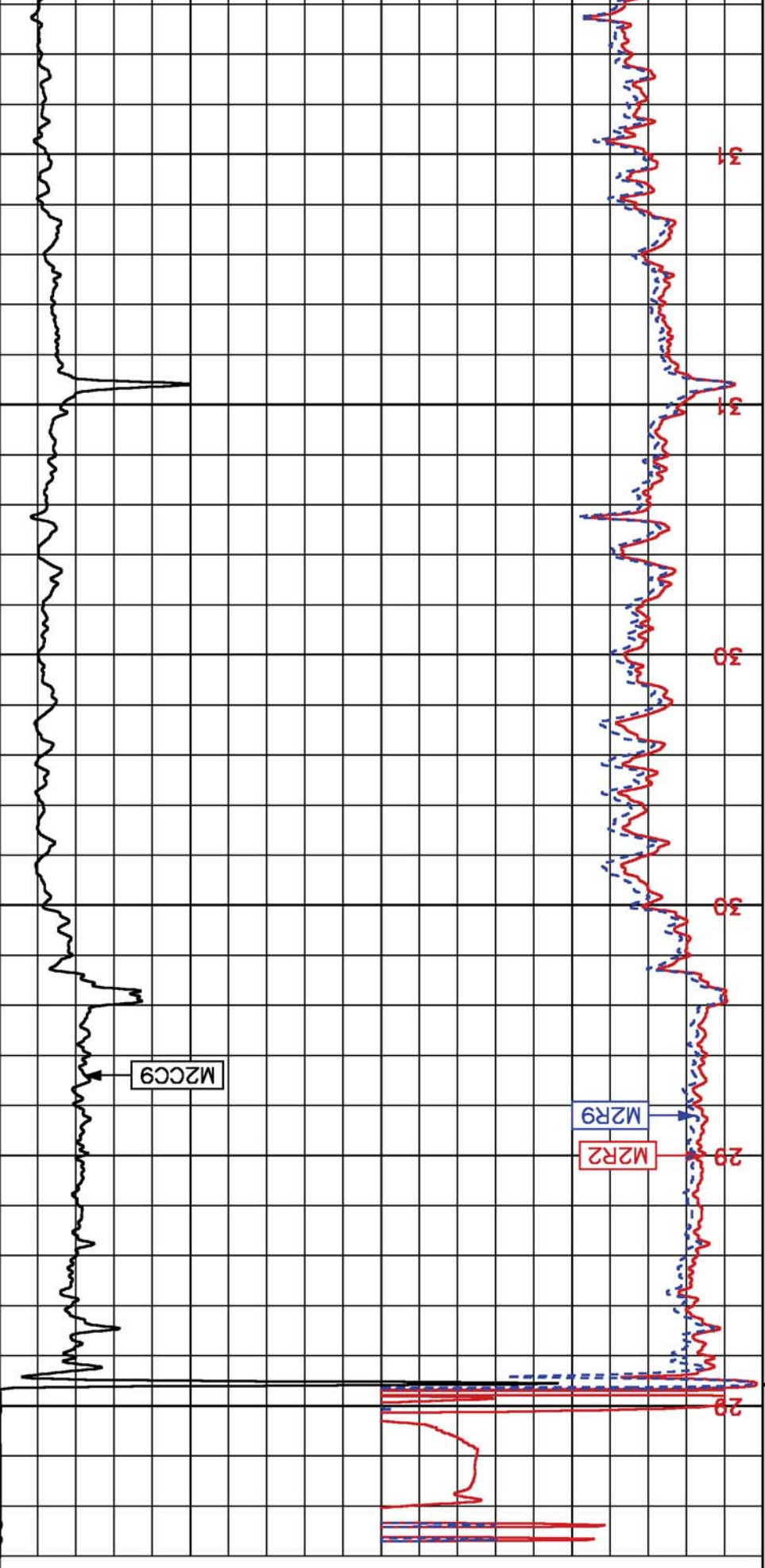


500

450

4000

(degC)



31

31

30

30

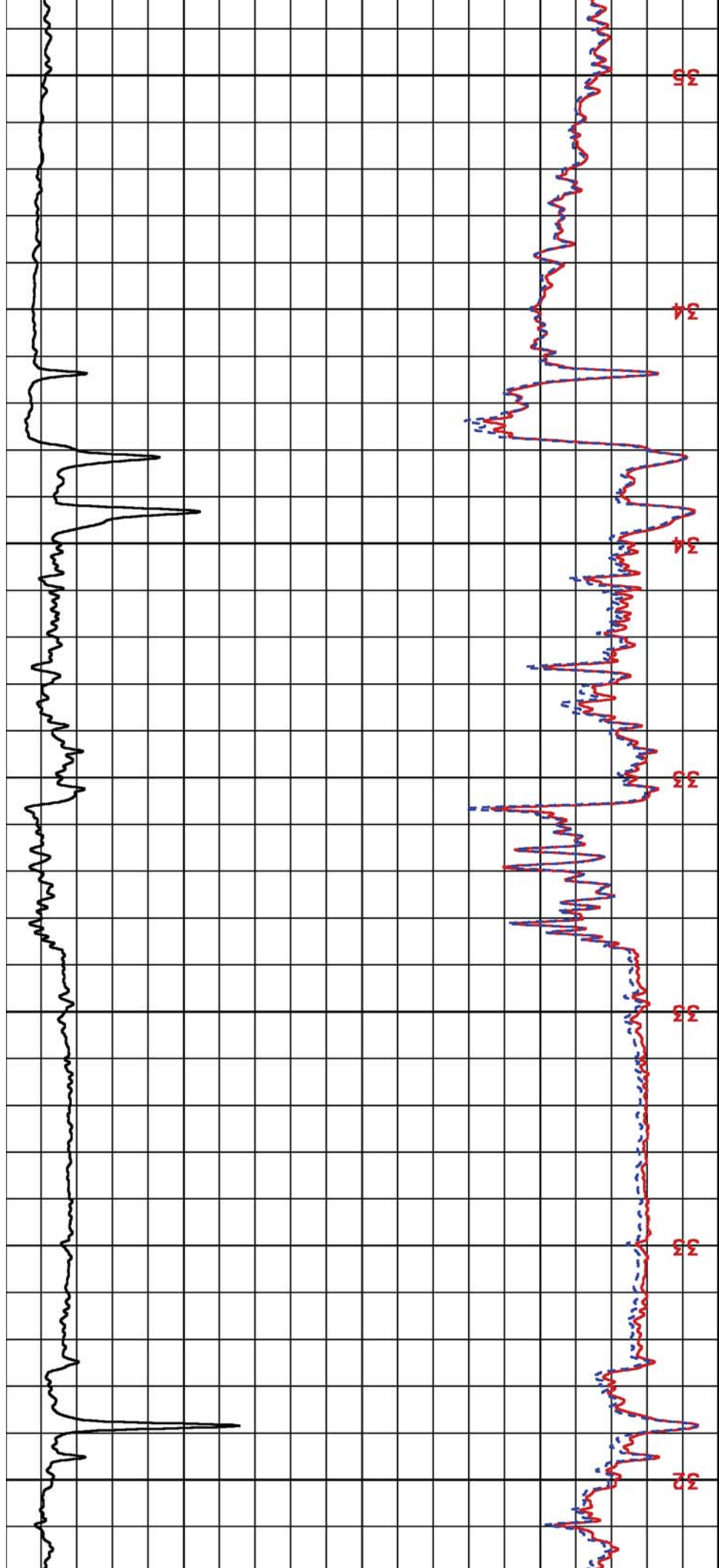
29

28

M2CC9

M2R2

M2R9

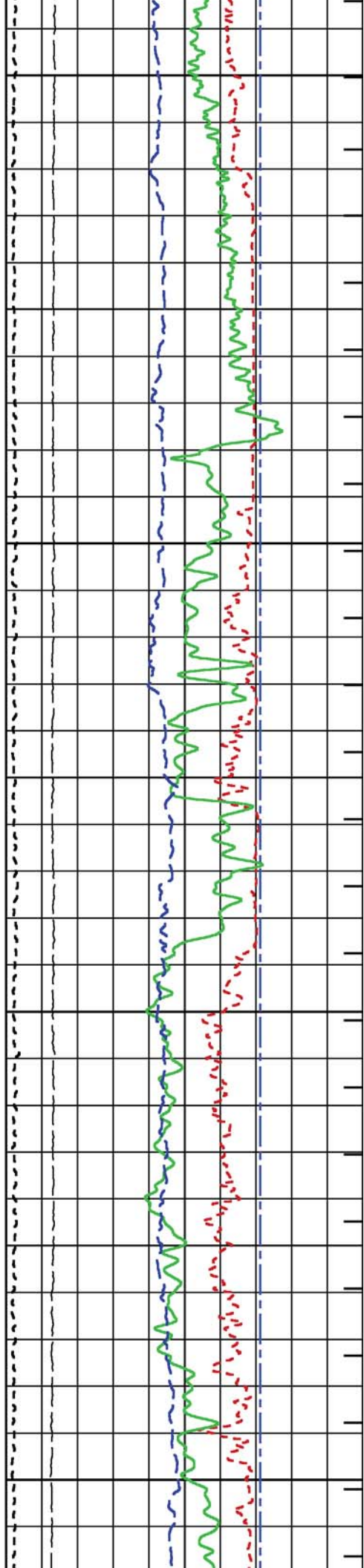


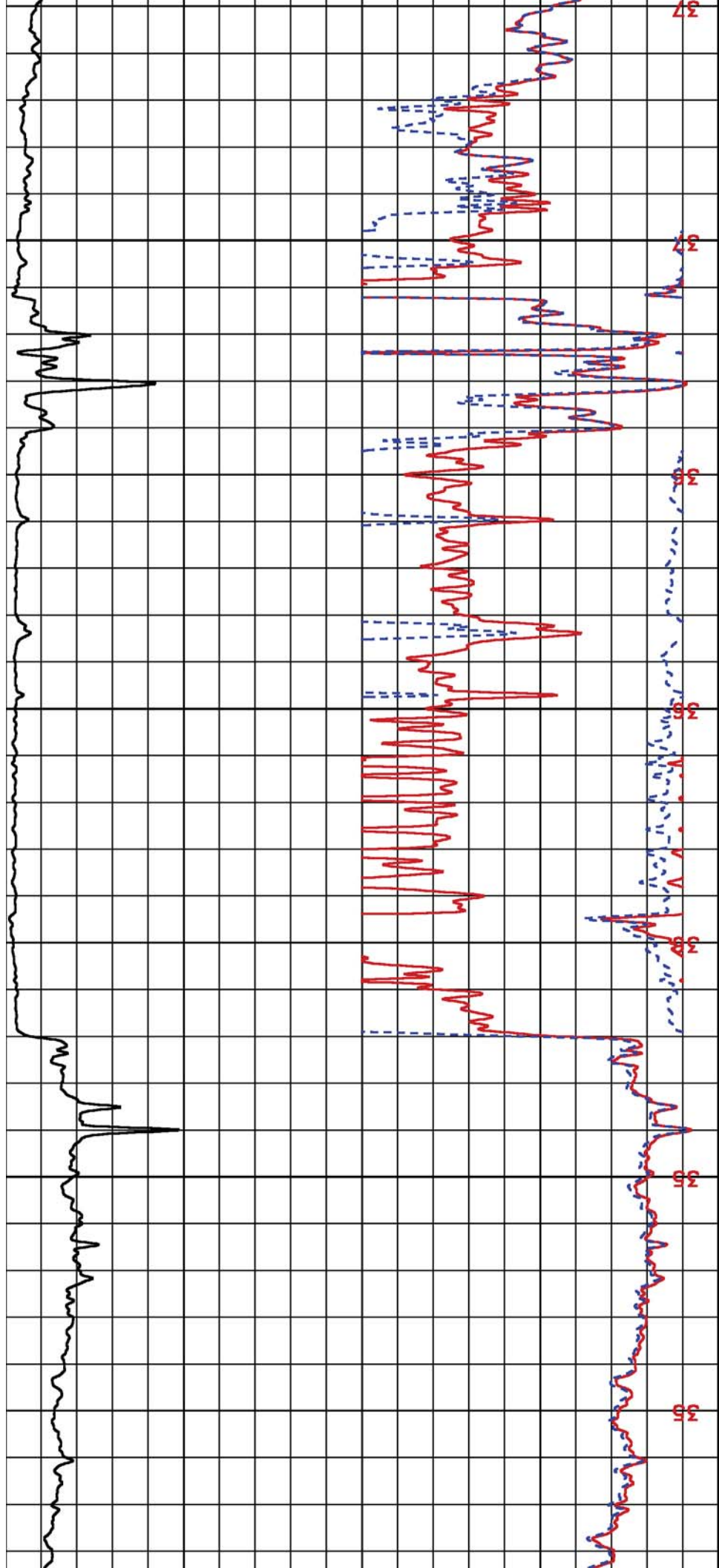
550

600

650

700

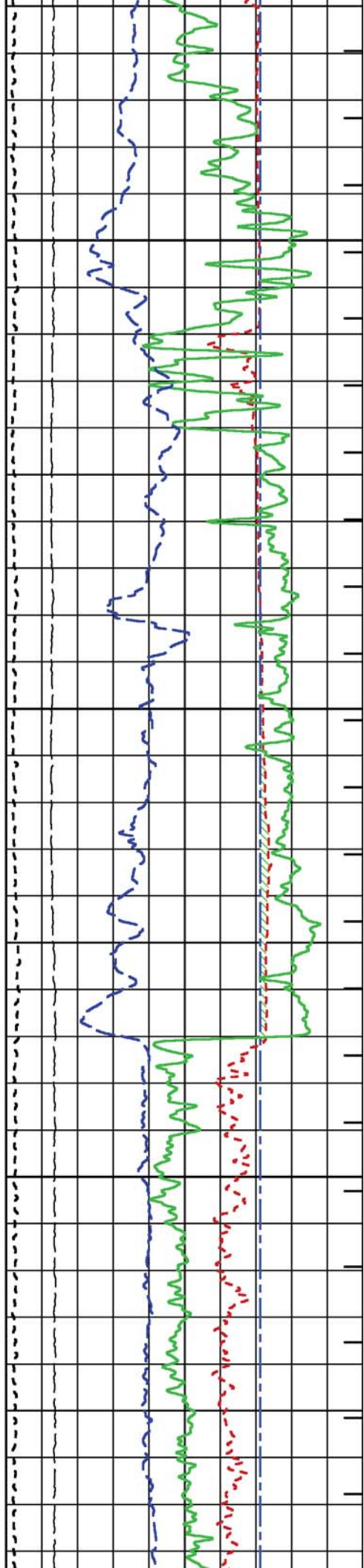


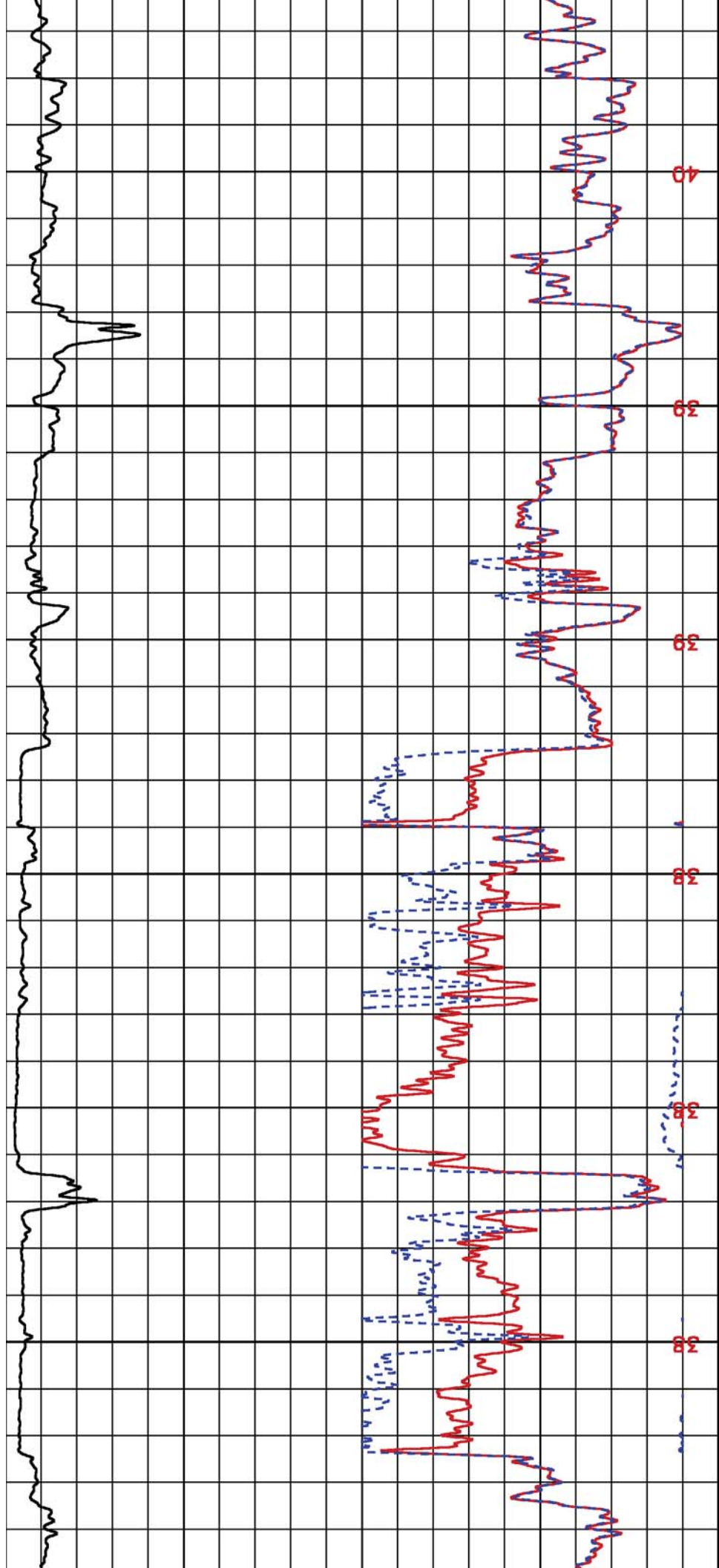


750

800

850

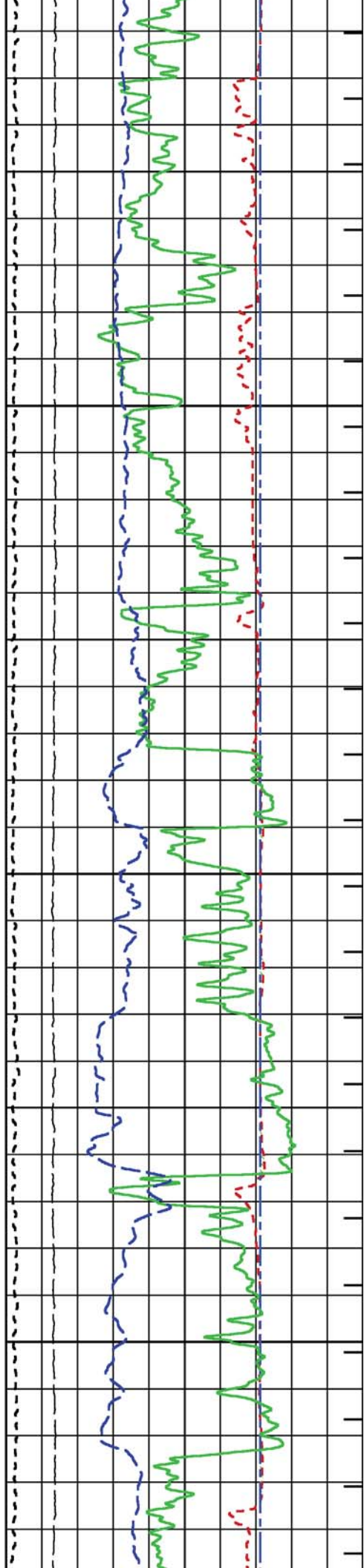


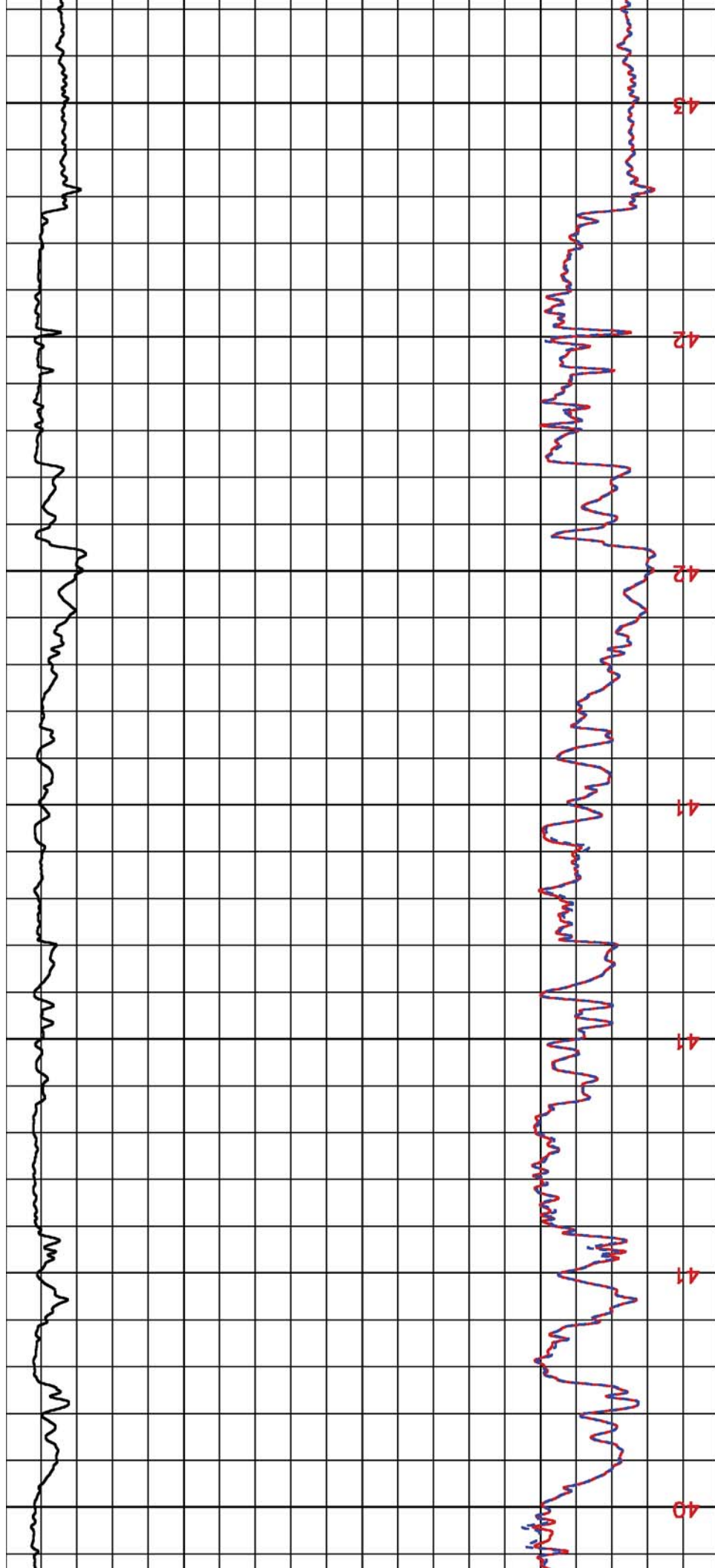


1000

950

900



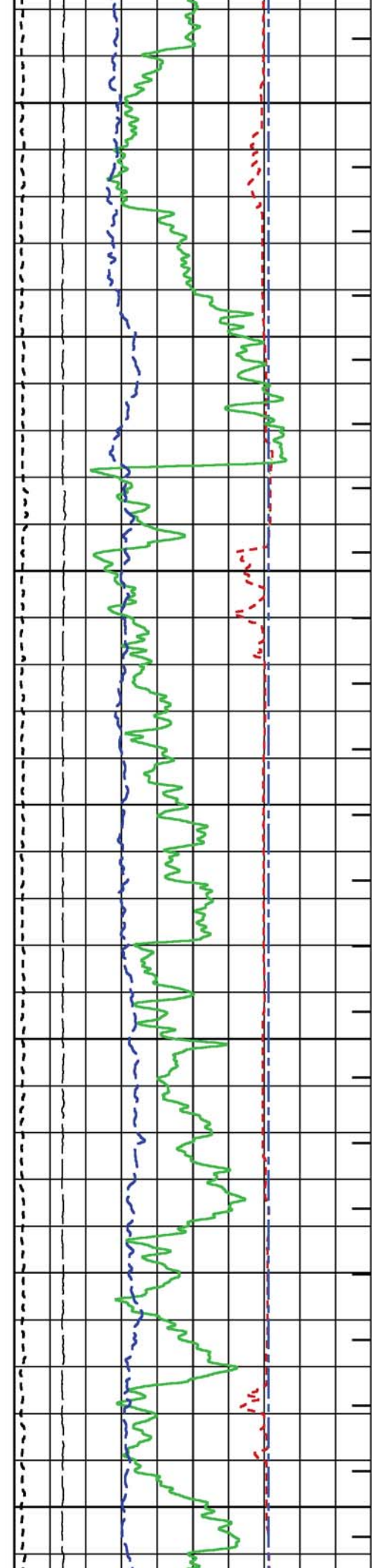


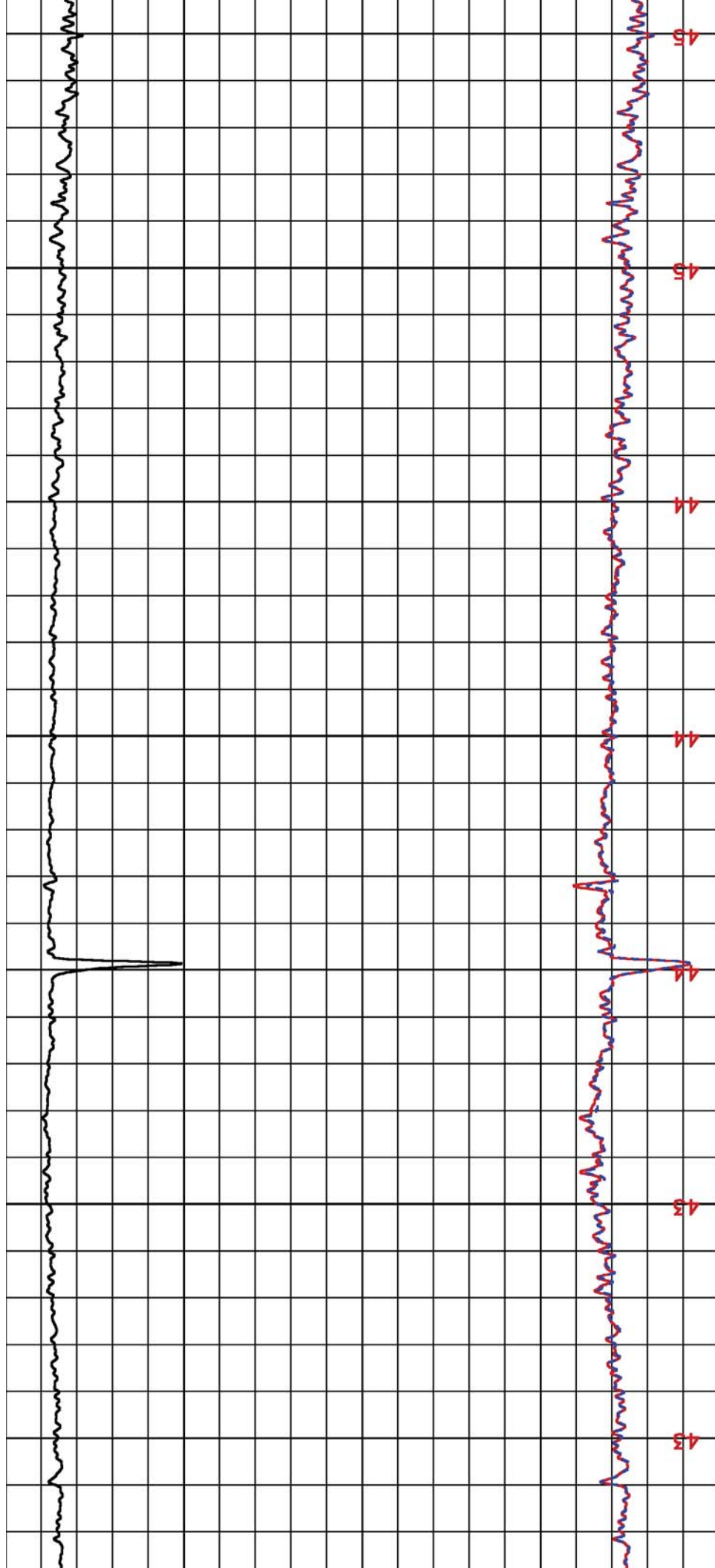
1050

1100

1150

1200

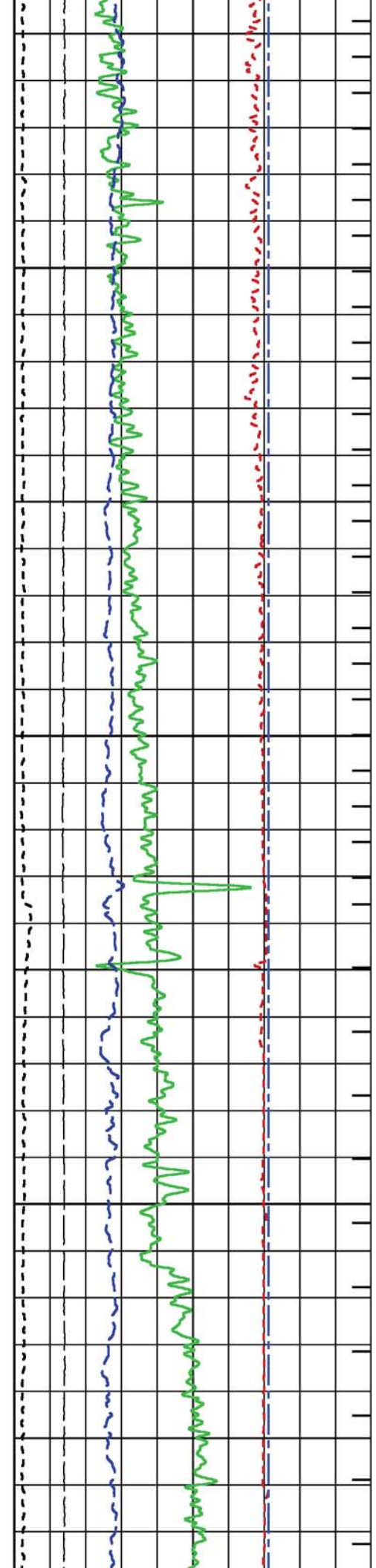


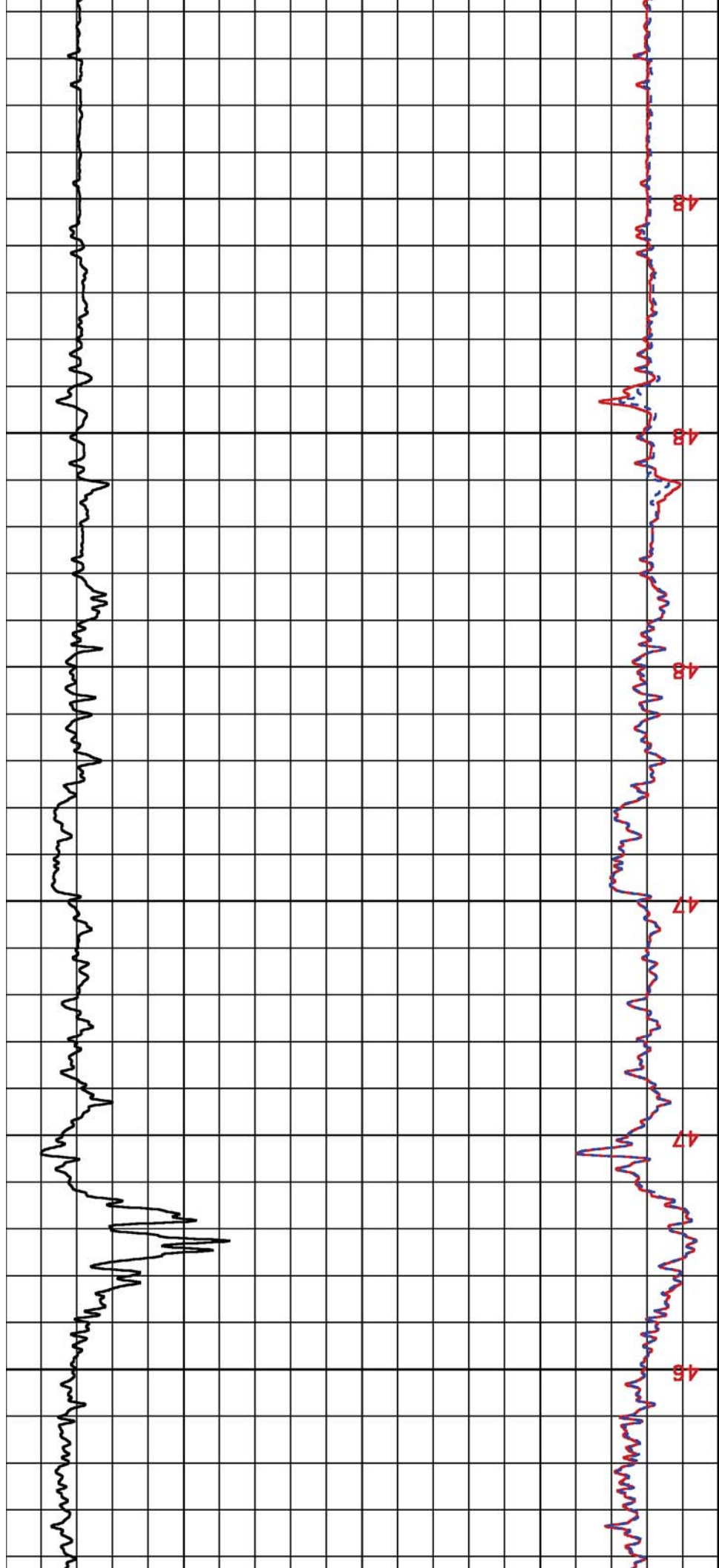


1350

1300

1250

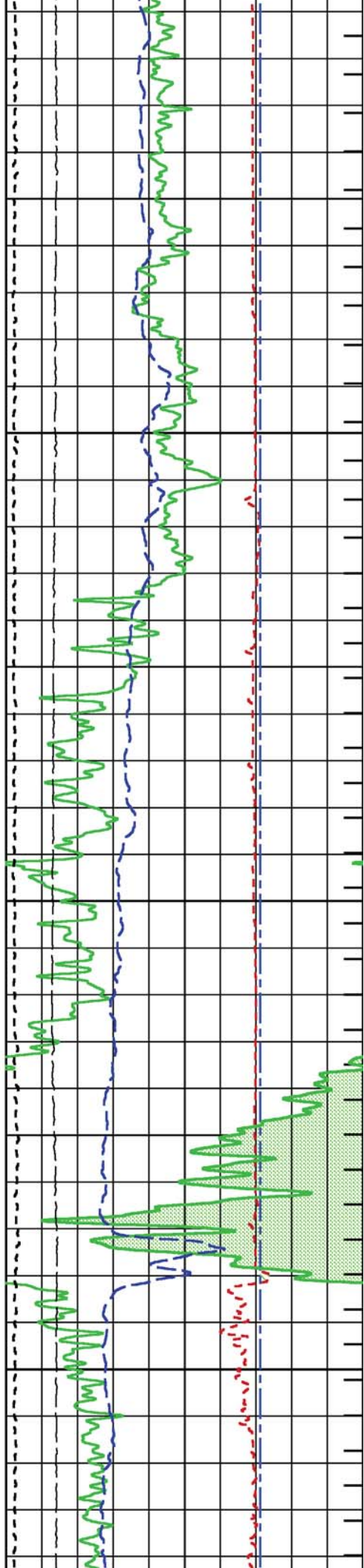


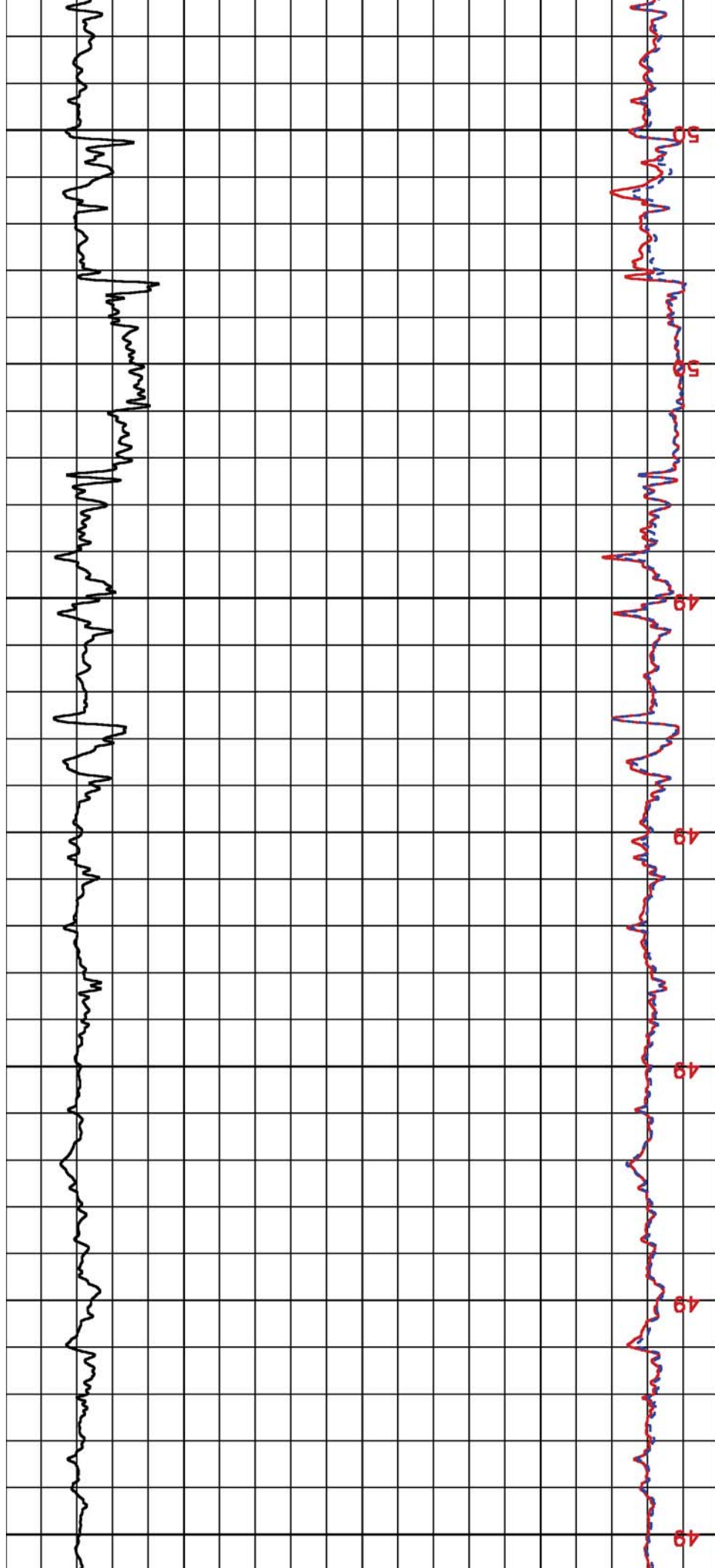


1400

1450

1500



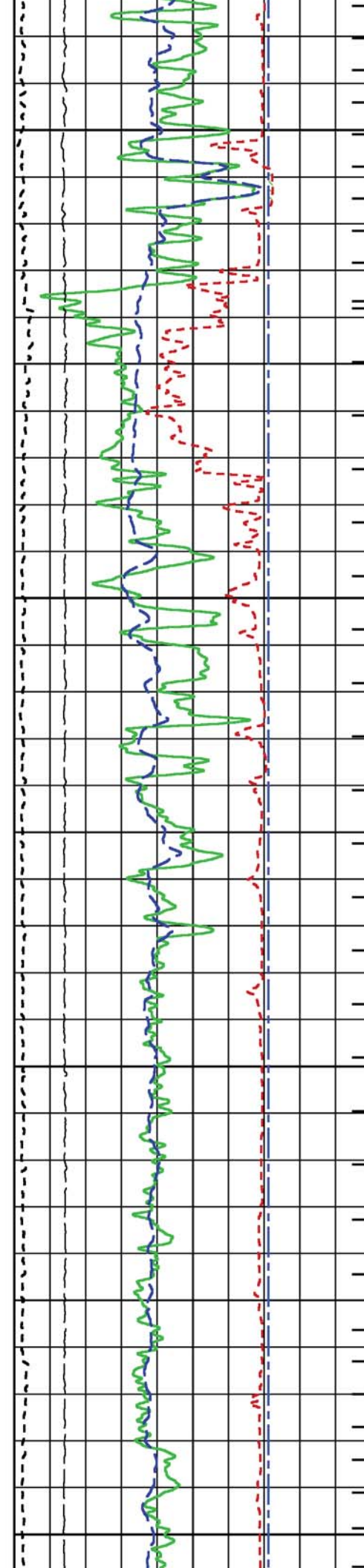


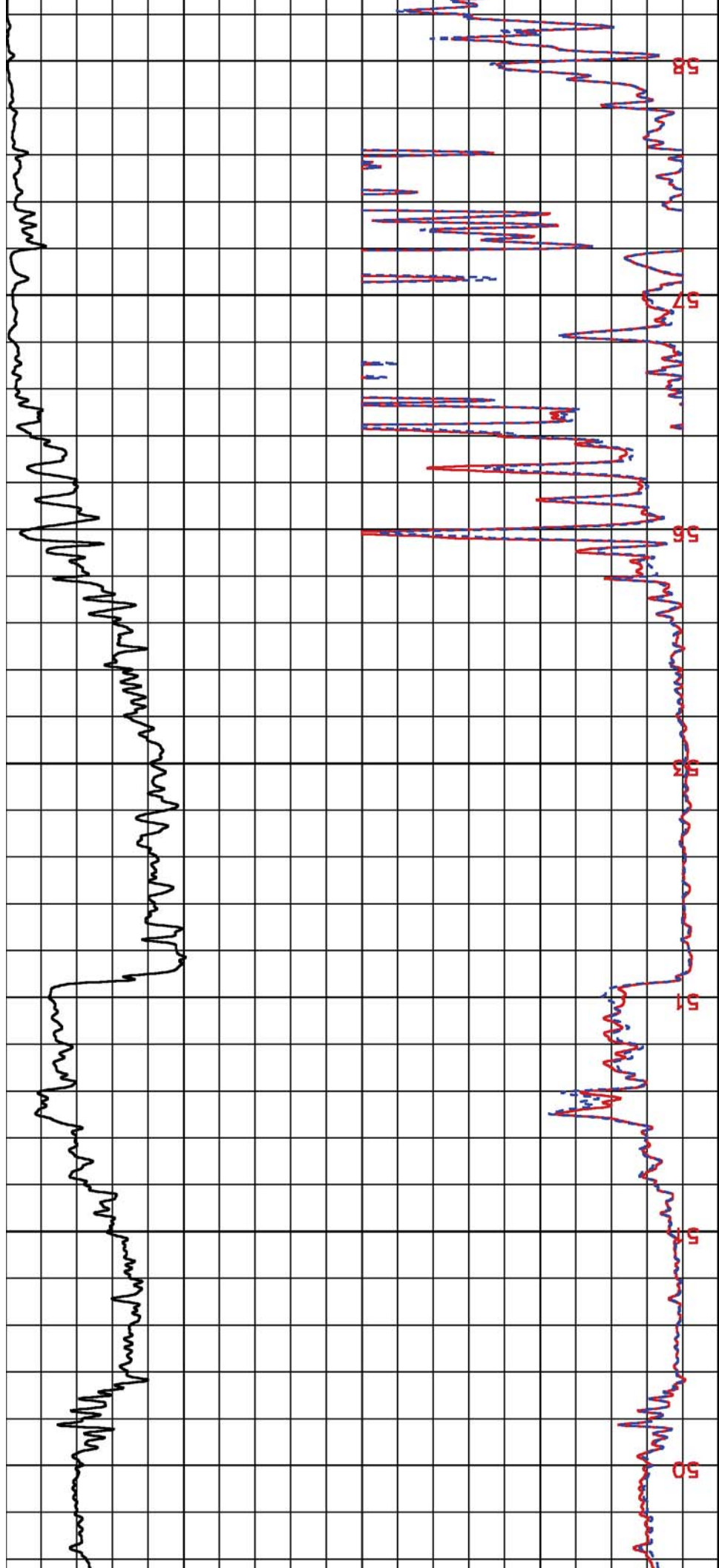
1550

1600

1650

1700

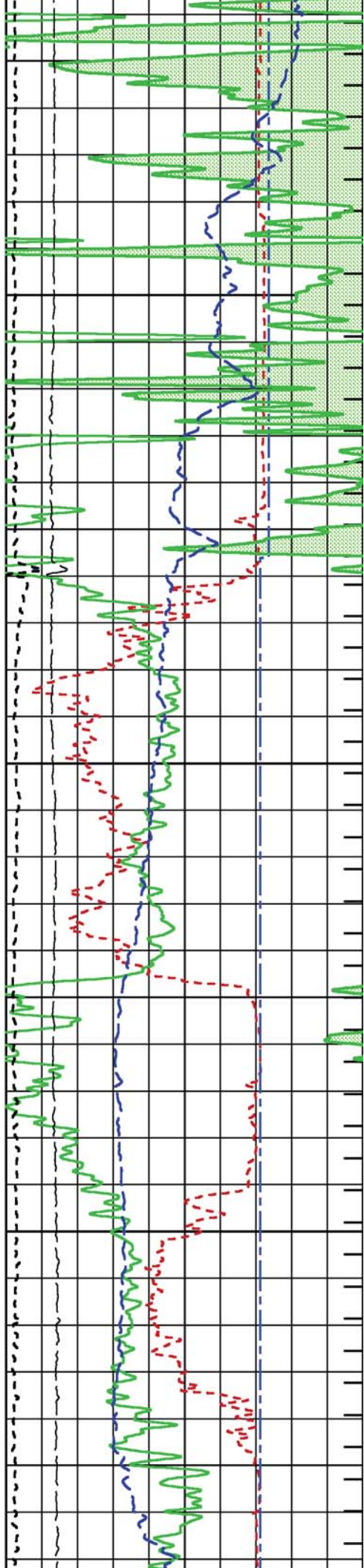




1850

1800

1750



MINUTE MARK		
DIFF. TENSION [ten]	1900	150
CH-TENSION [cht]	5000	1000
	(kgf)	(degC)
		BHT
		(mmho/m)
		90 in. DOI [m2cc9]
		OVERRANGE DEEP [m2r9]
		(ohm.m)
		1000
		0

MAIN LOG		
----------	--	--

ECLIPS 6.1! Aug 06, 2010

Updates: 1,2 Patches: 3

Sat Feb 16 16:42:52 2013

Perpht / main/62

Cplot

Pdf_Cpp / main/16

Fileview 5.61

PARAMETER AND FILTER SUMMARY REPORT		
FILE: /data/MGM/run2-oh/m980e02.prm LOGGING MODE: DEPTH 336.788 m TOP DEPTH: 1994.840 m DIRECTION: DOWN BOTTOM DEPTH: 1994.840 m		

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
SYMMETRIC FILTER				
CHT	FILTER ()	medium (1)		TOP
TENSION	FILTER ()	medium (1)		TOP
GR	FILTER ()	medium (1)		TOP
SP-SPDH	FILTER ()	medium (1)		TOP

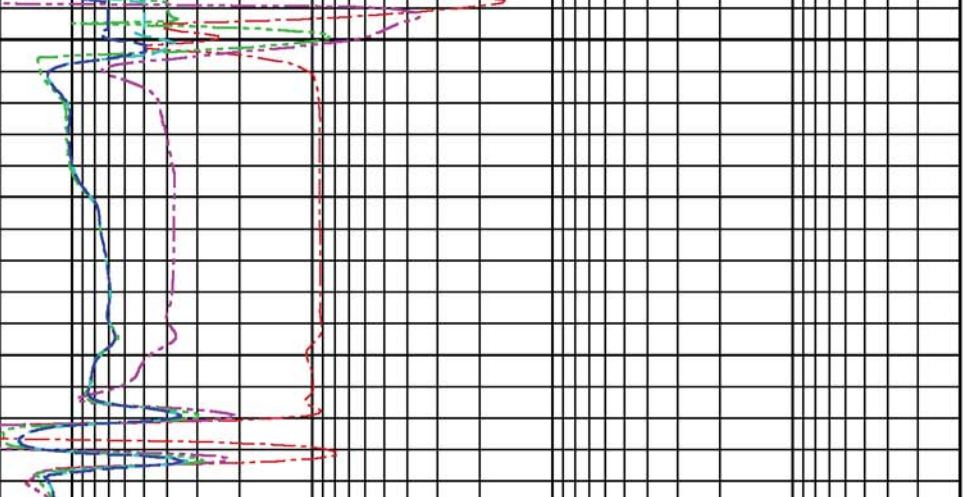
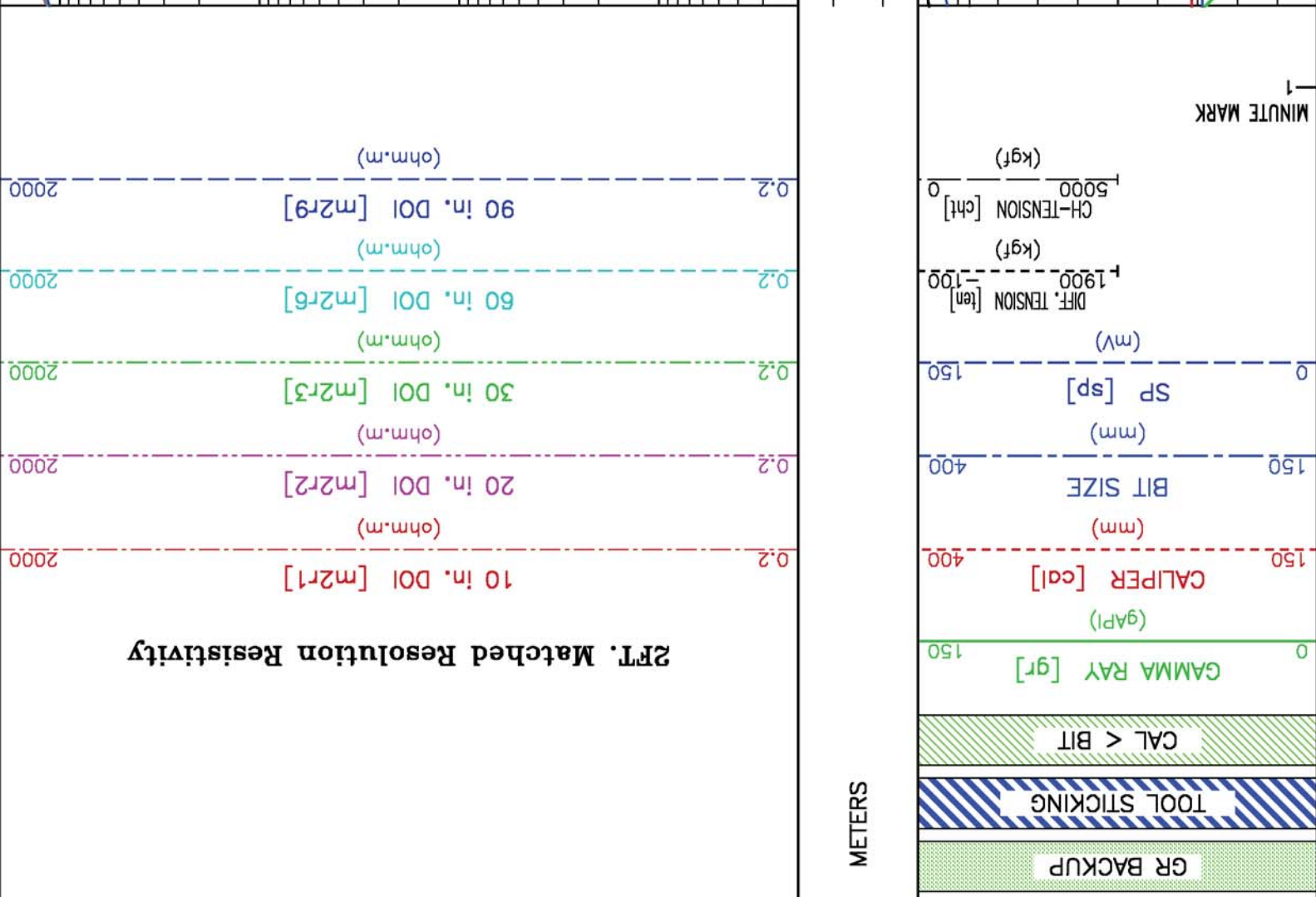
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
BOREHOLE & CEMENT				
X-Y COMBINED CALIPER PROCESSING	X-Y Caliper	Average		TOP
BIT SIZE	BIT SIZE	222.000	mm	TOP
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		TOP
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	20.5	degC	TOP
		32.4	degC	TOP
		46.4	degC	TOP
		0.960	ohm.m	TOP
		1.270	ohm.m	TOP
		1.000	ohm.m	TOP
		25.0	degC	TOP
	Known BH REF TEMP	0.0	m	TOP
	at BH REF DEPTH	2.187	degC/m	TOP
	with TEMP GRADIENT	USE FIXED SIZE		TOP
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	222.000	mm	TOP
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	222.000	mm	TOP
X-Y COMBINED CALIPER PROCESSING-FOCUSED CALIPER - FOCUS		Average		TOP

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

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
HDIL PROCESSING				

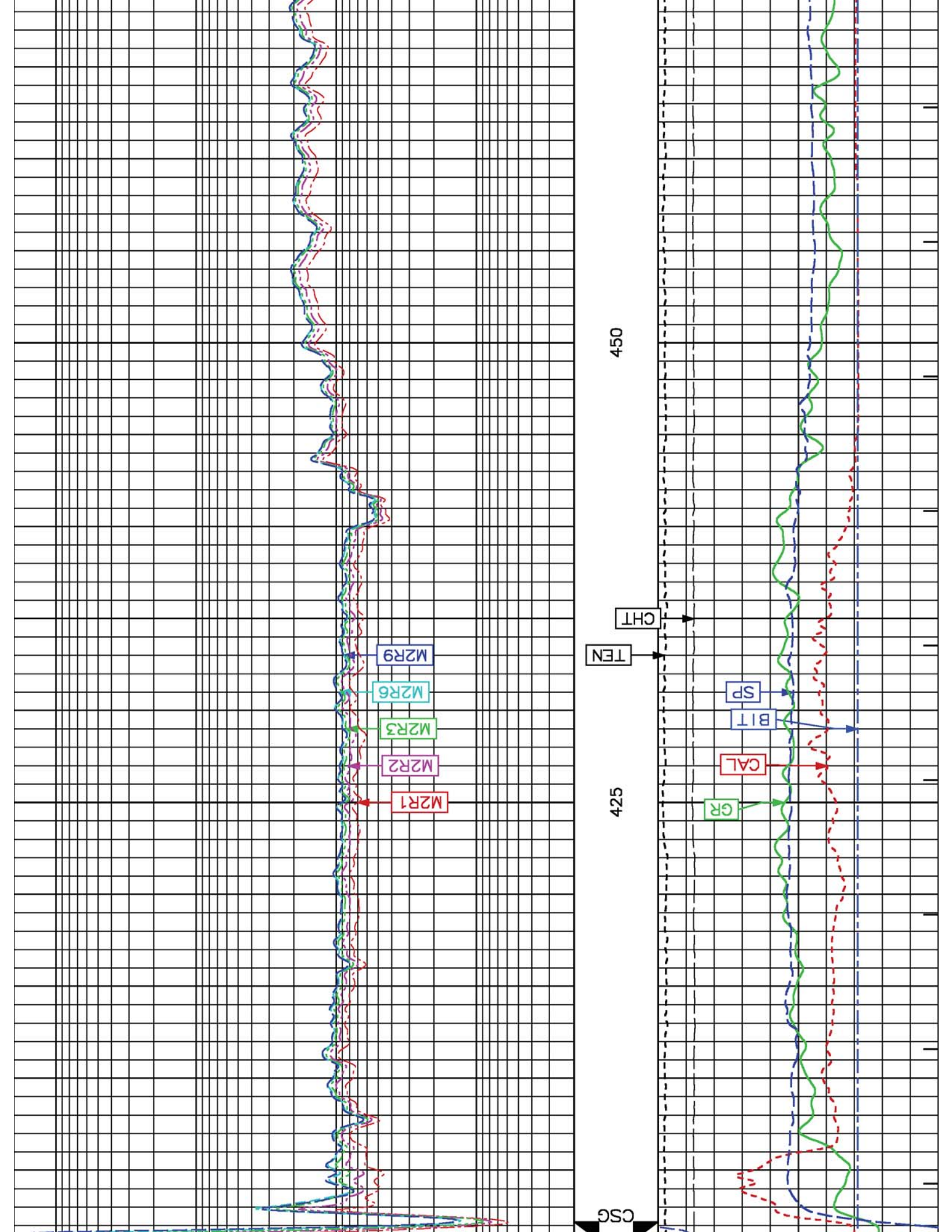
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	GR	33.76	M2R3	0.84	M2R3	0.84	SP	0.38		
CAL	5.52	M2R1	0.84	M2R6	0.84	TEN	0.00				
CHT	0.00	M2R2	0.84	M2R9	0.84						

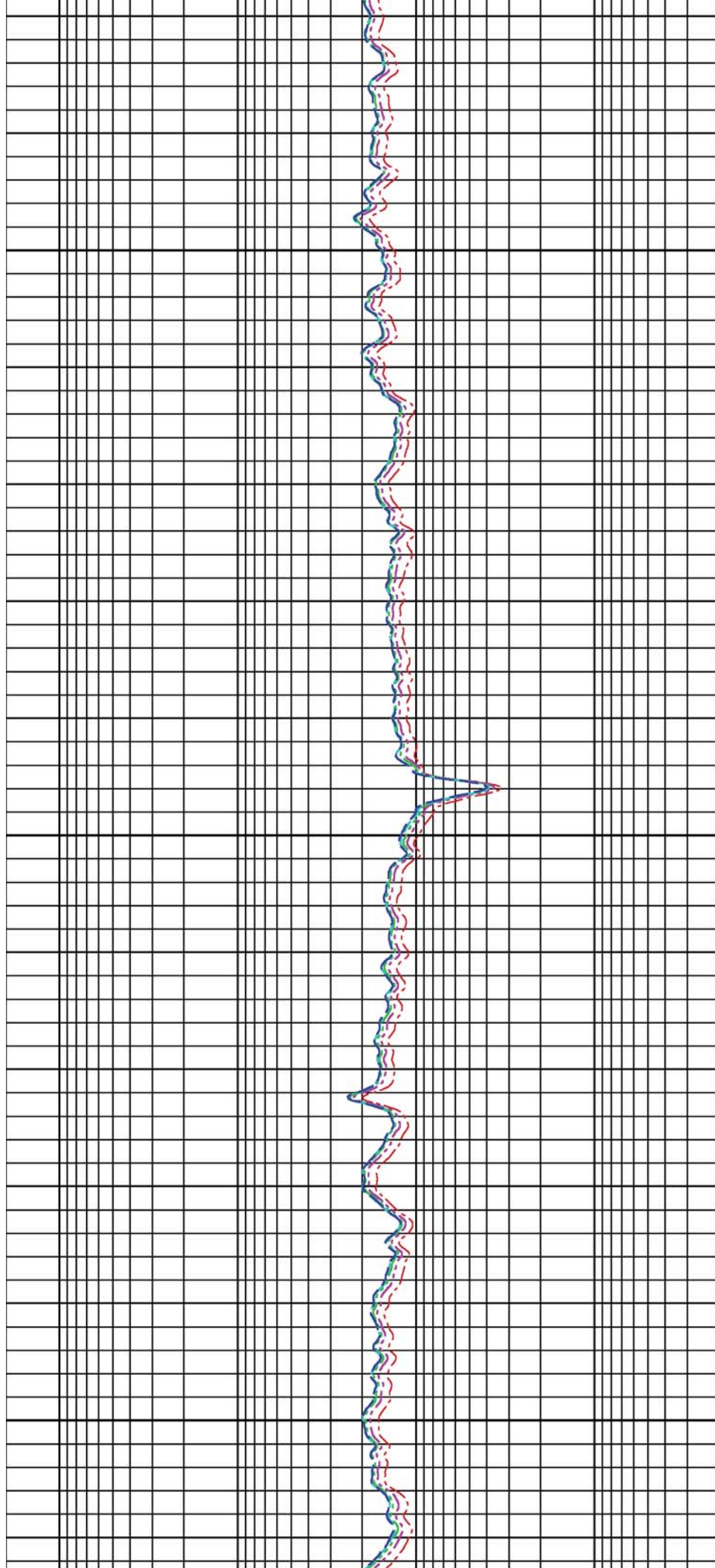
Presentation	: sysa:/data/MGM/run2_oh/thdlmain.pdf [1:240 Scale]	Plot Interval	: 385 - 1980 Meters
Data File 1	: F1 : sysa:/data/MGM/run2_oh/222_main.xtf	Created On	: Feb 16 07:26:57 2013
Company	: MGM ENERGY CORP	Well	: MGM SHELL EAST MACKAY I-78
Field	: EAST MACKAY	File Interval	: 318.973 - 1971.48 Meters
Oct	: m980e		



400

METERS

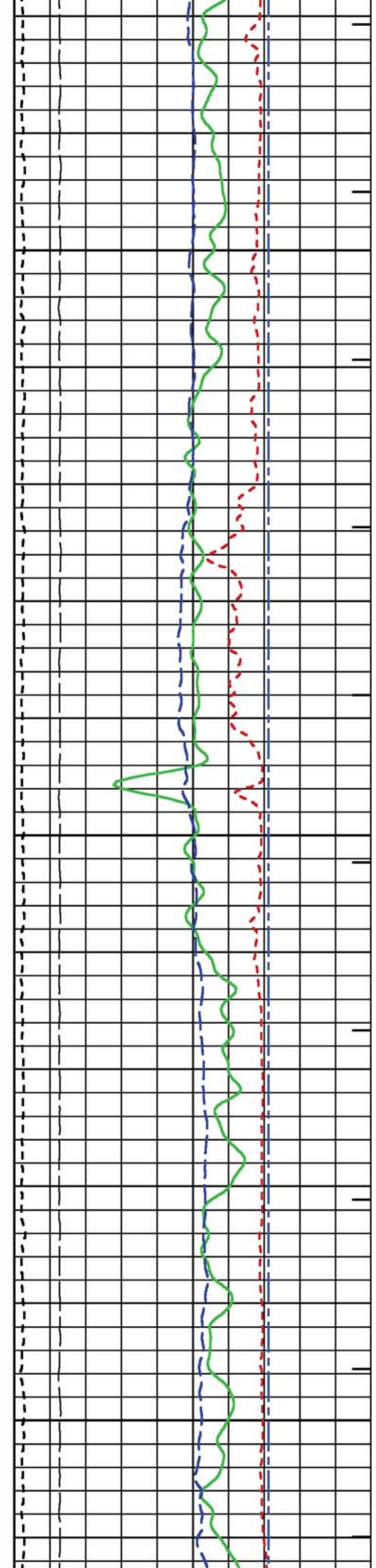


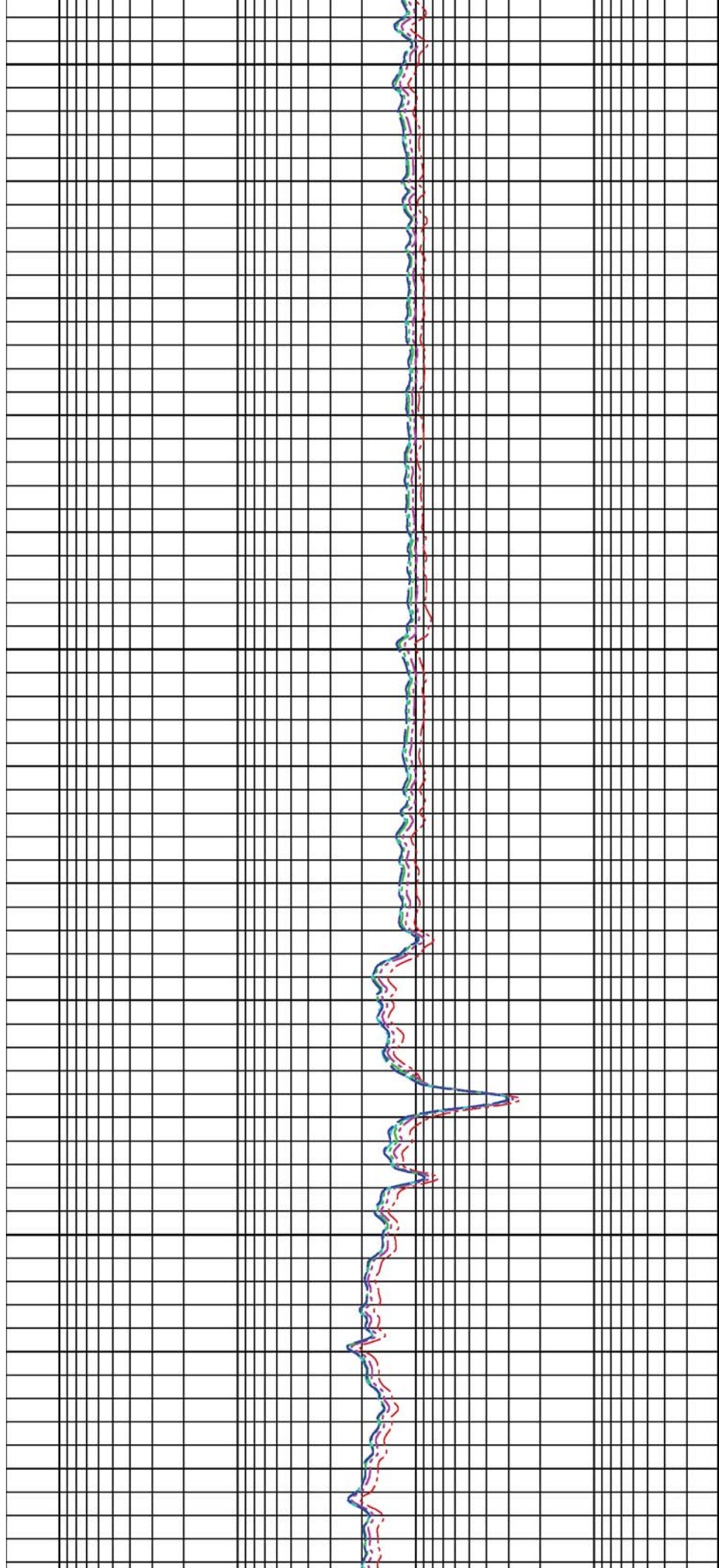


475

500

525

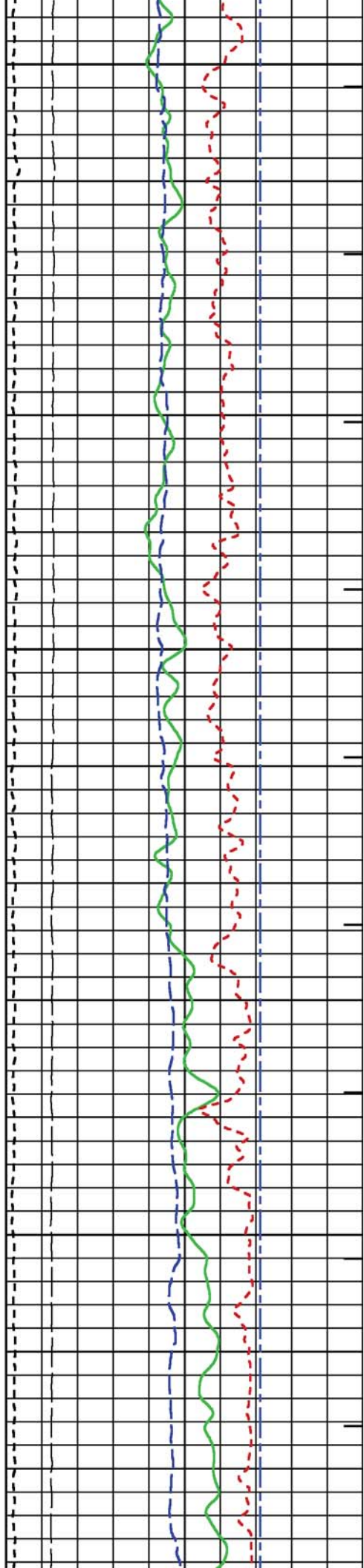


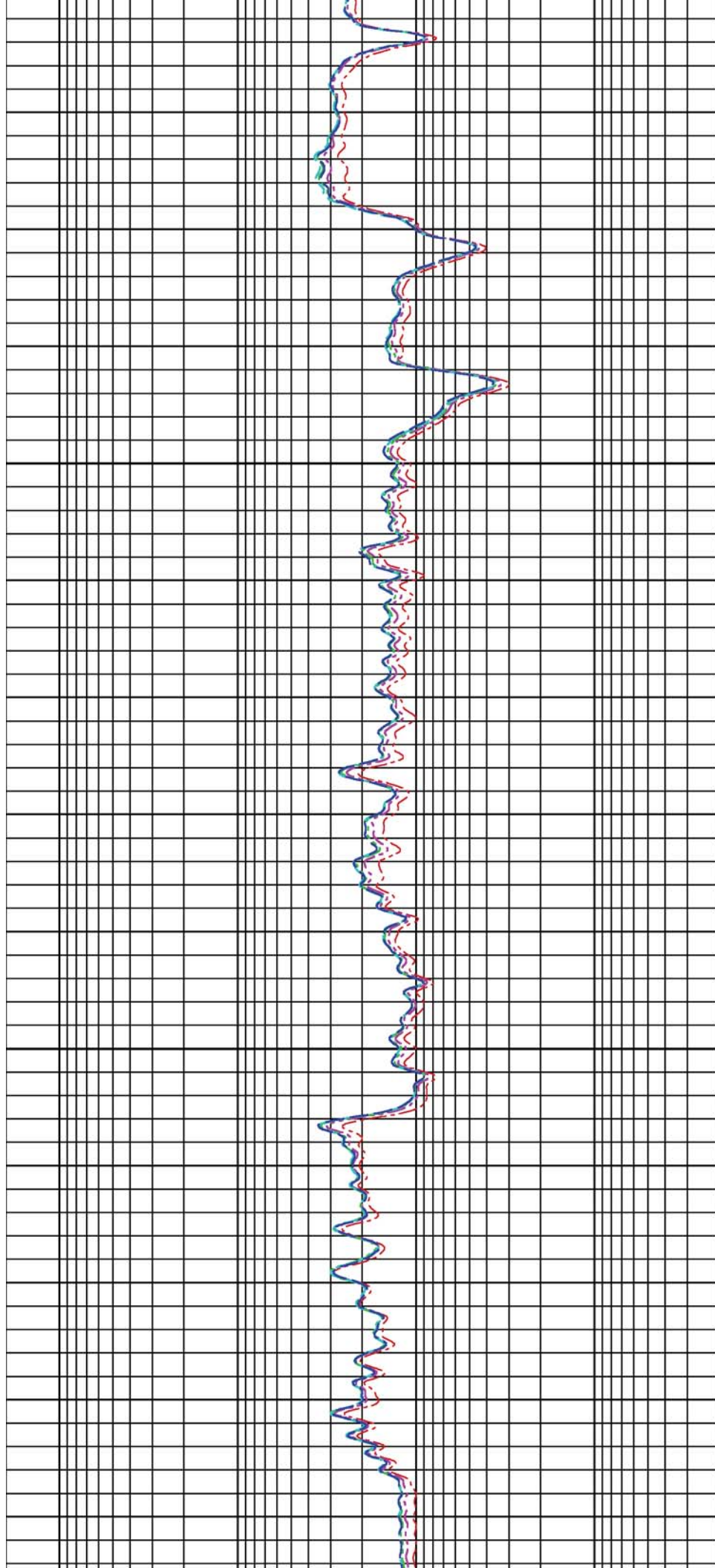


550

575

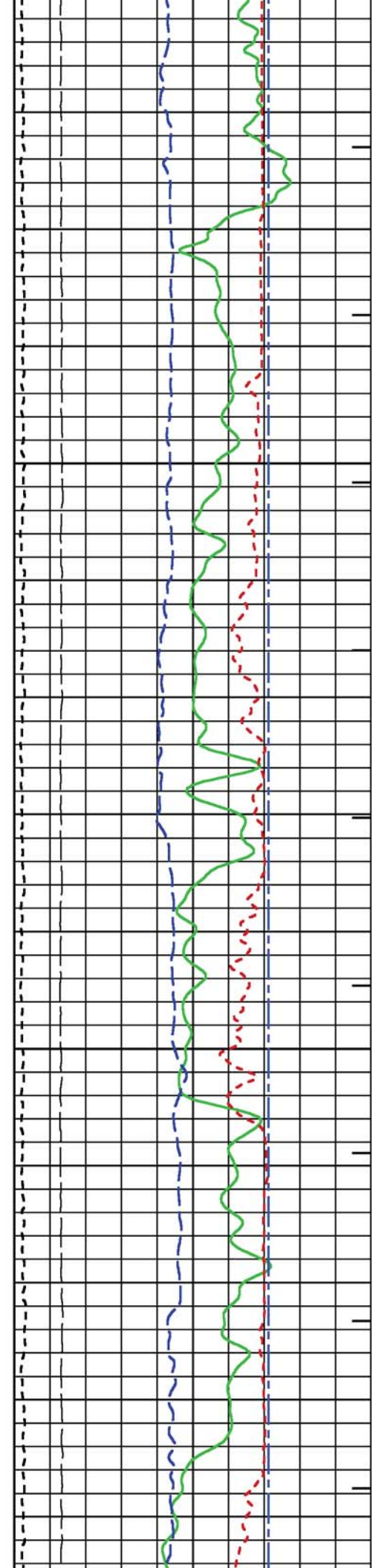
600

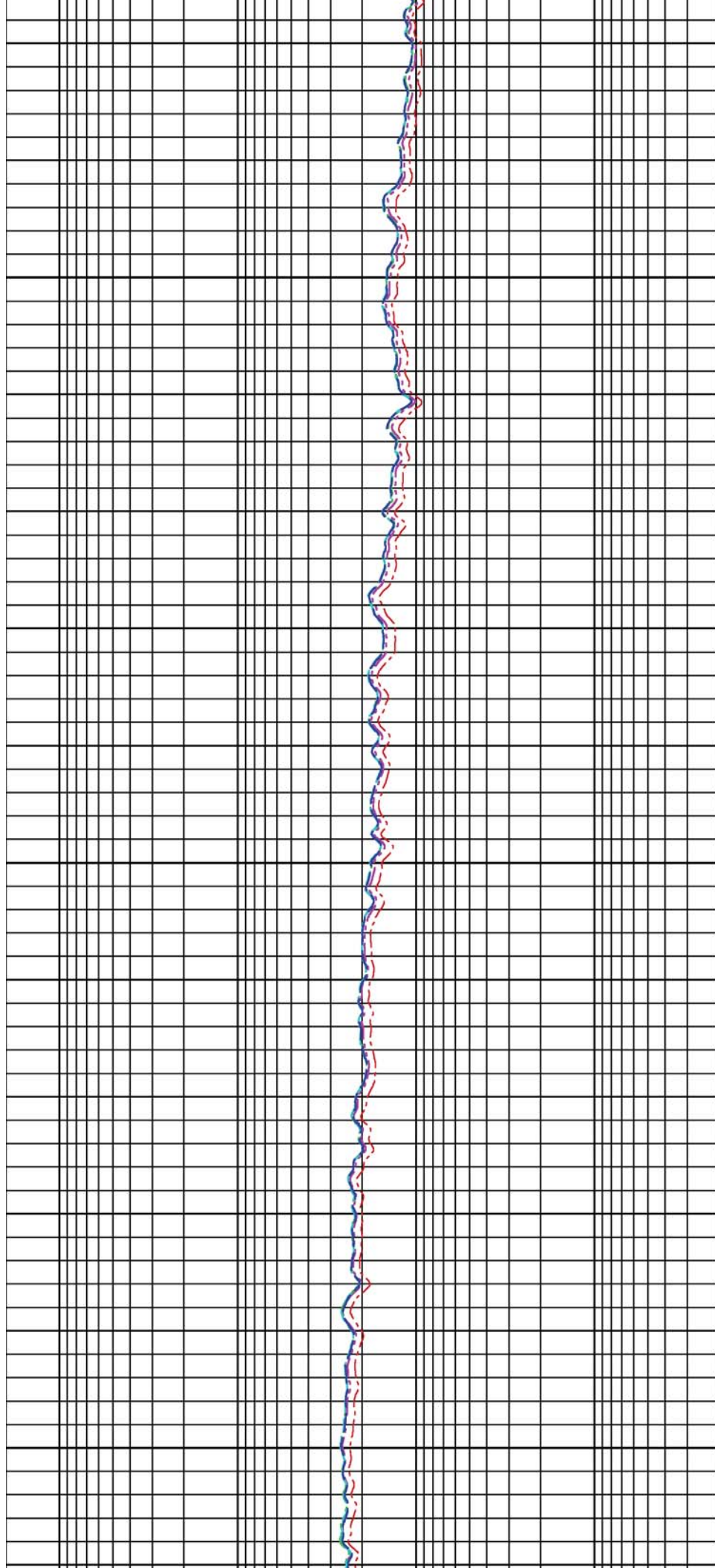




650

625

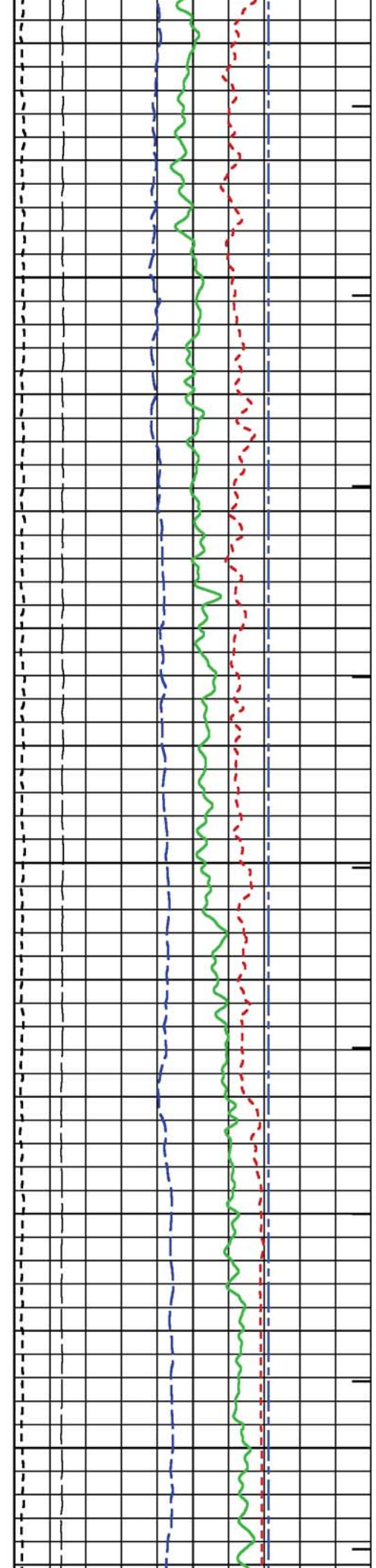


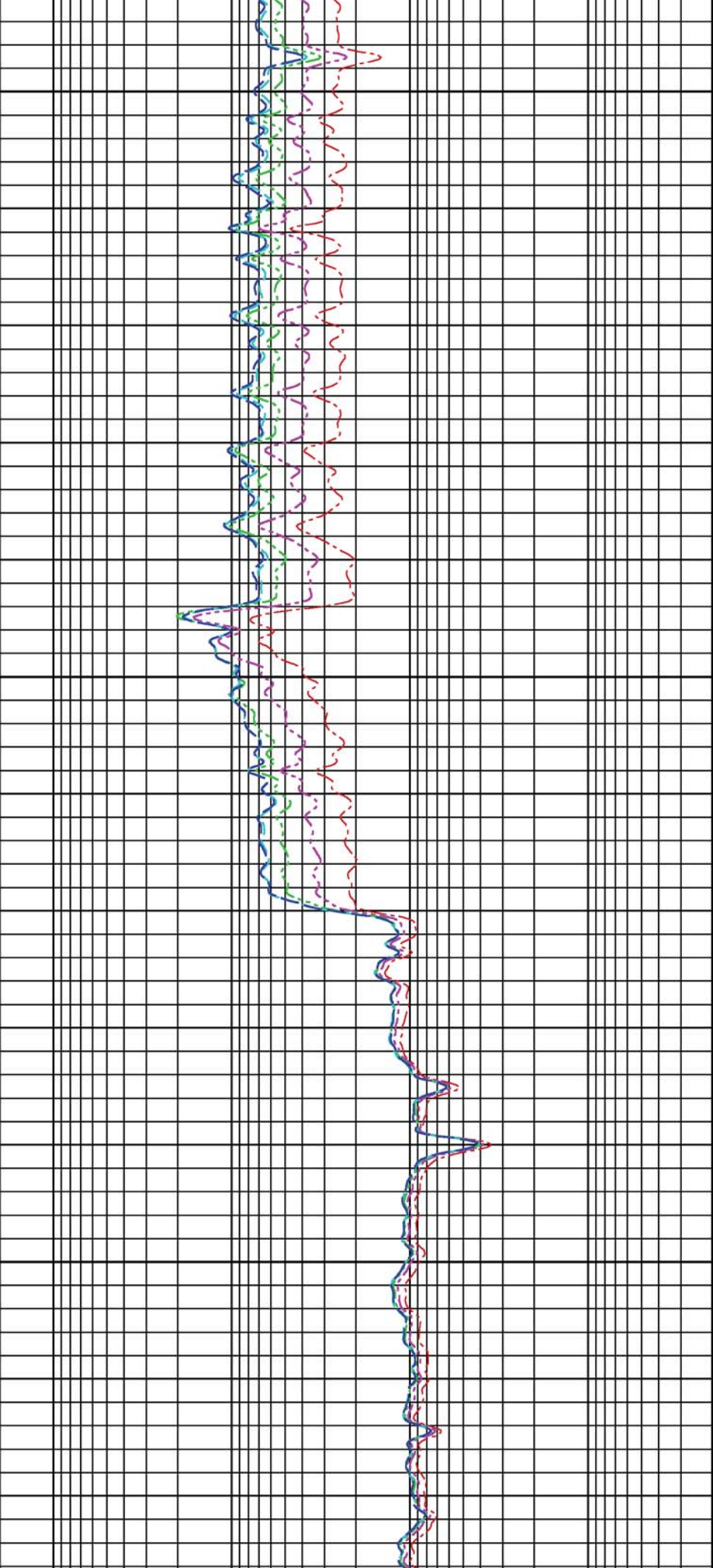


675

700

725

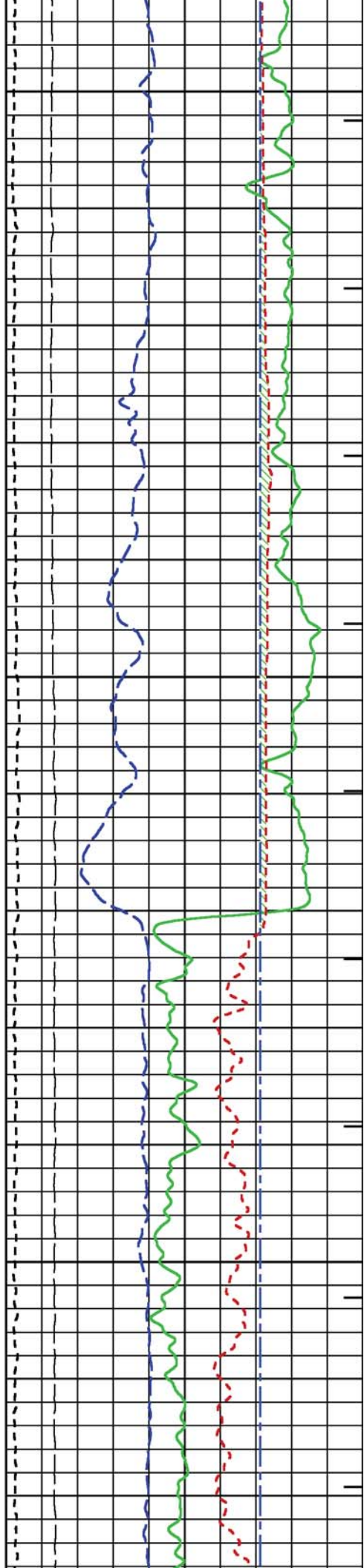


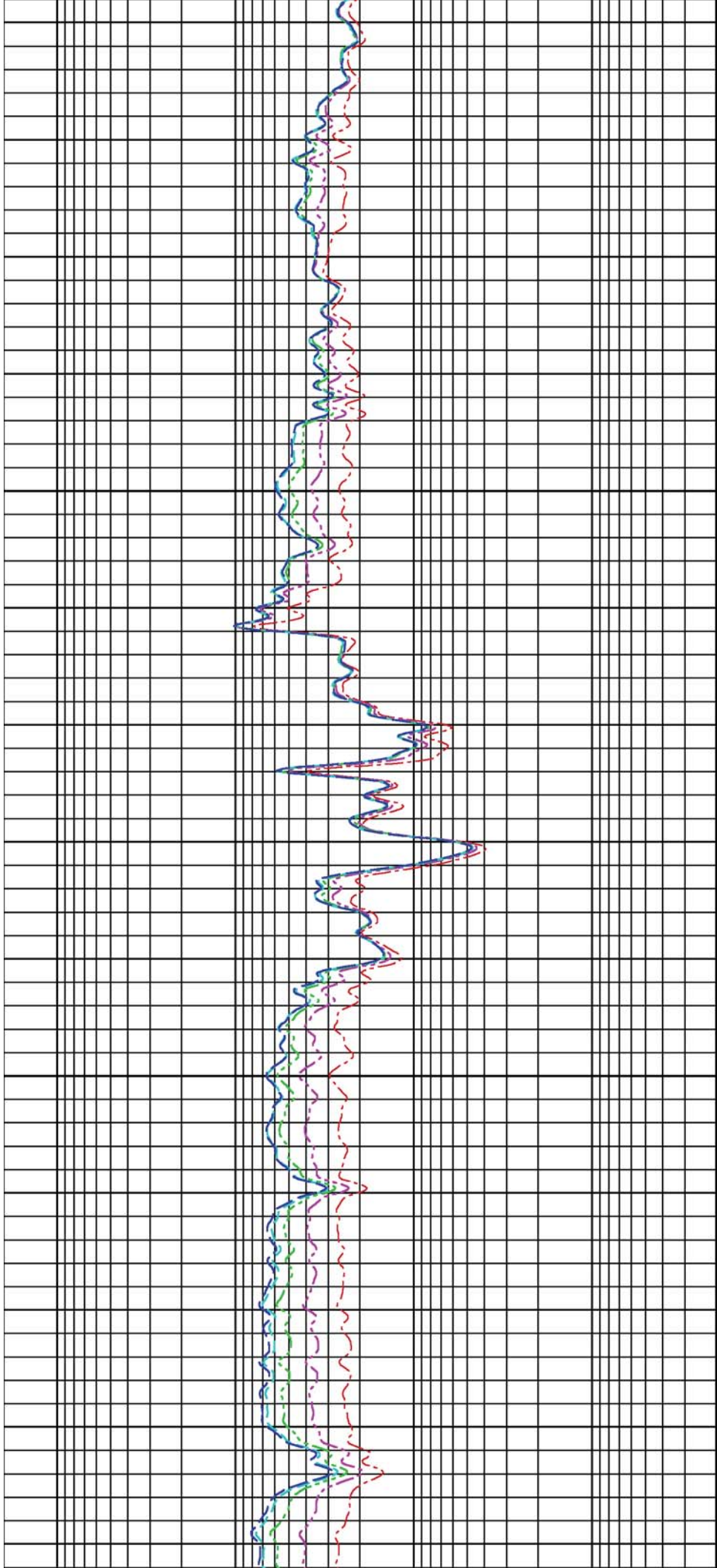


750

775

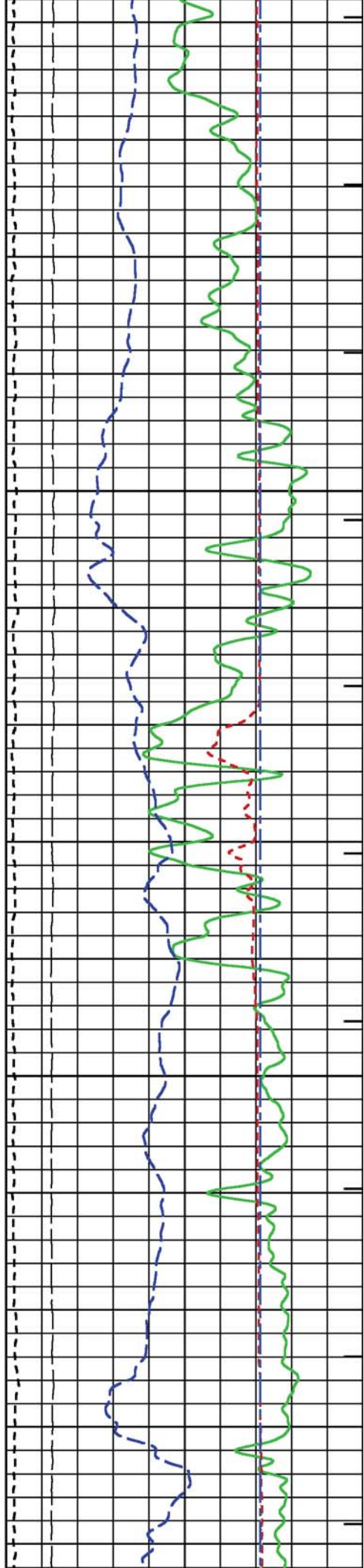
800

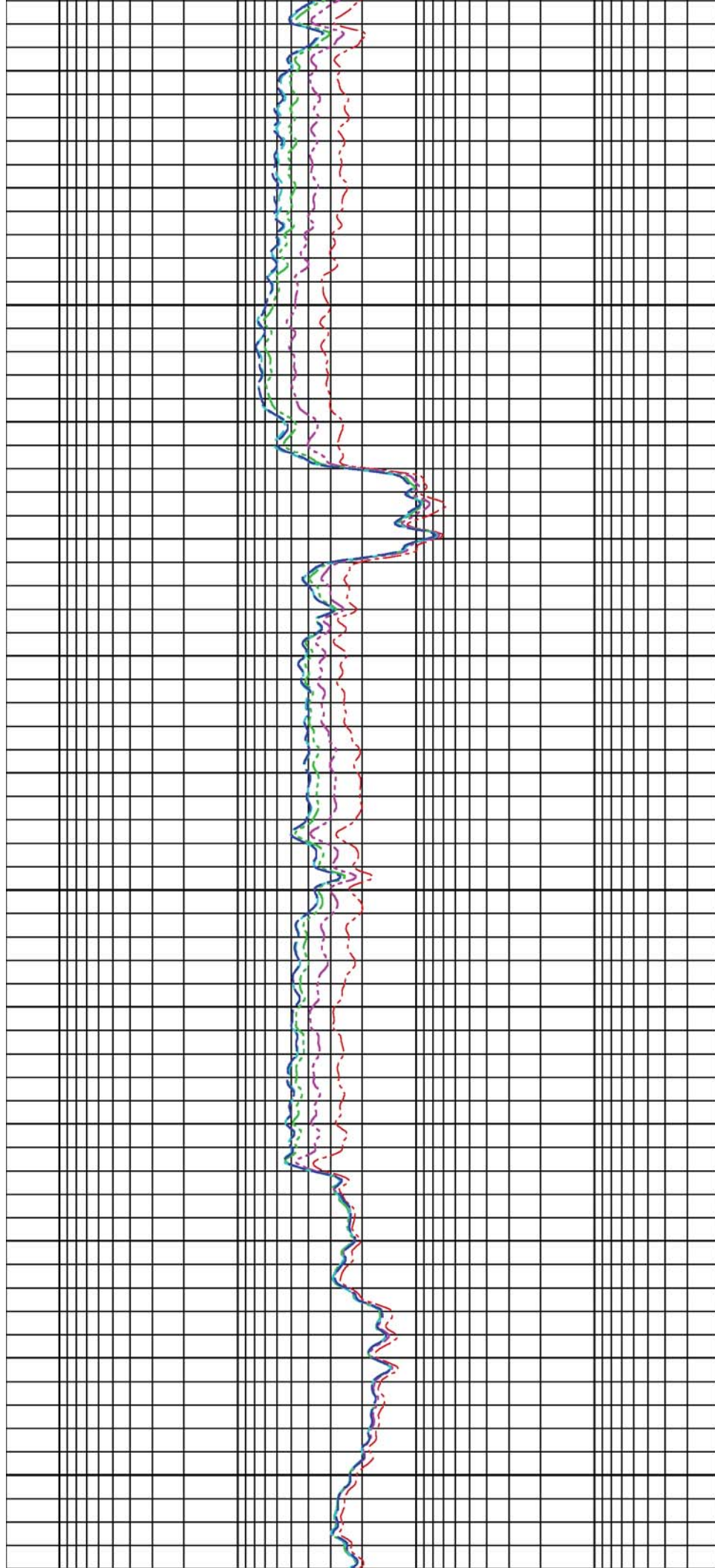




850

825

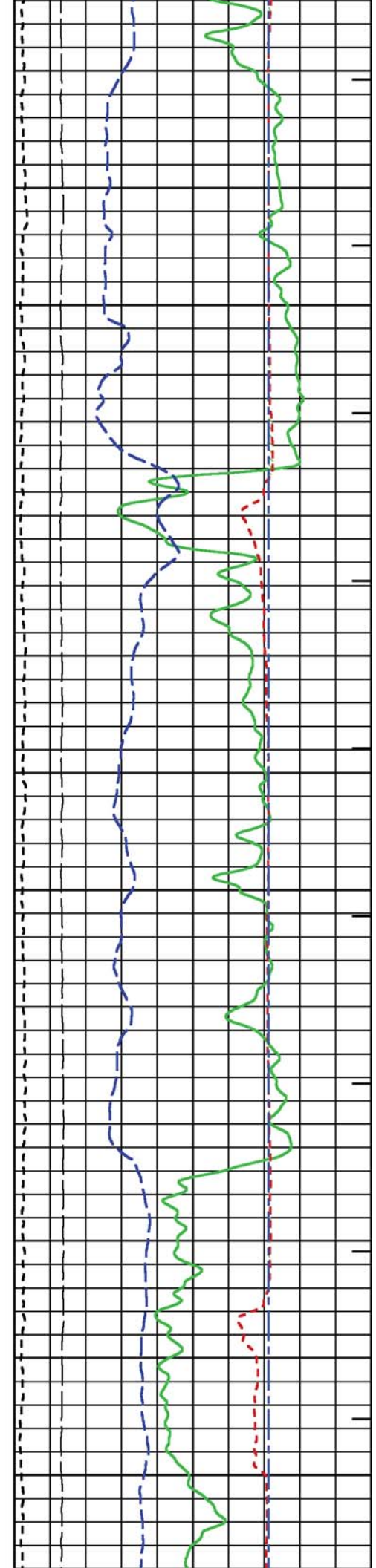


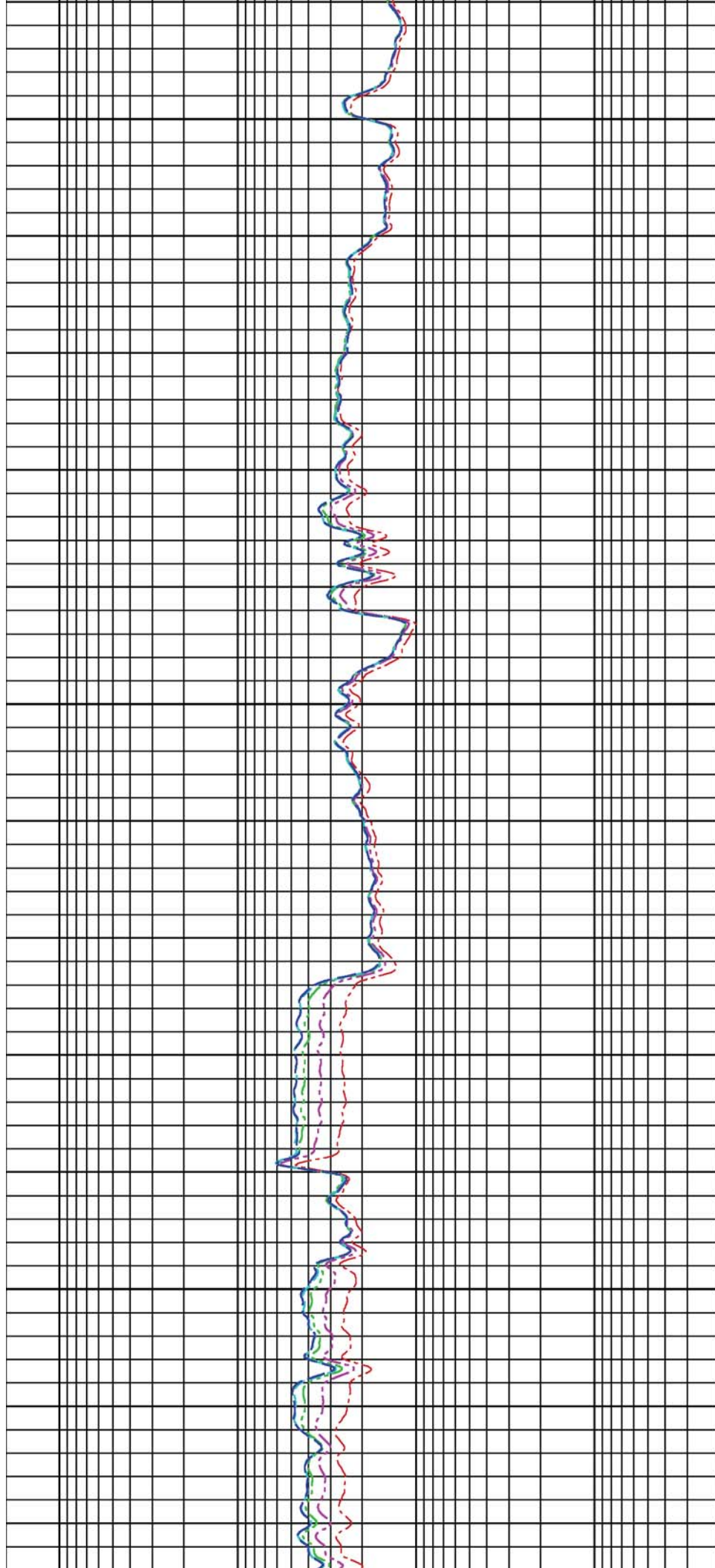


875

900

925

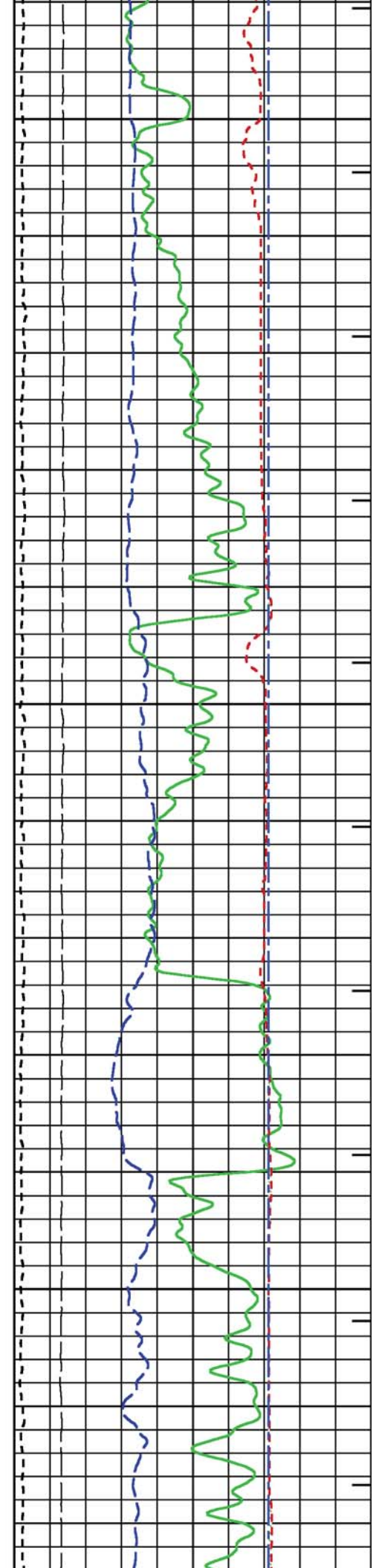


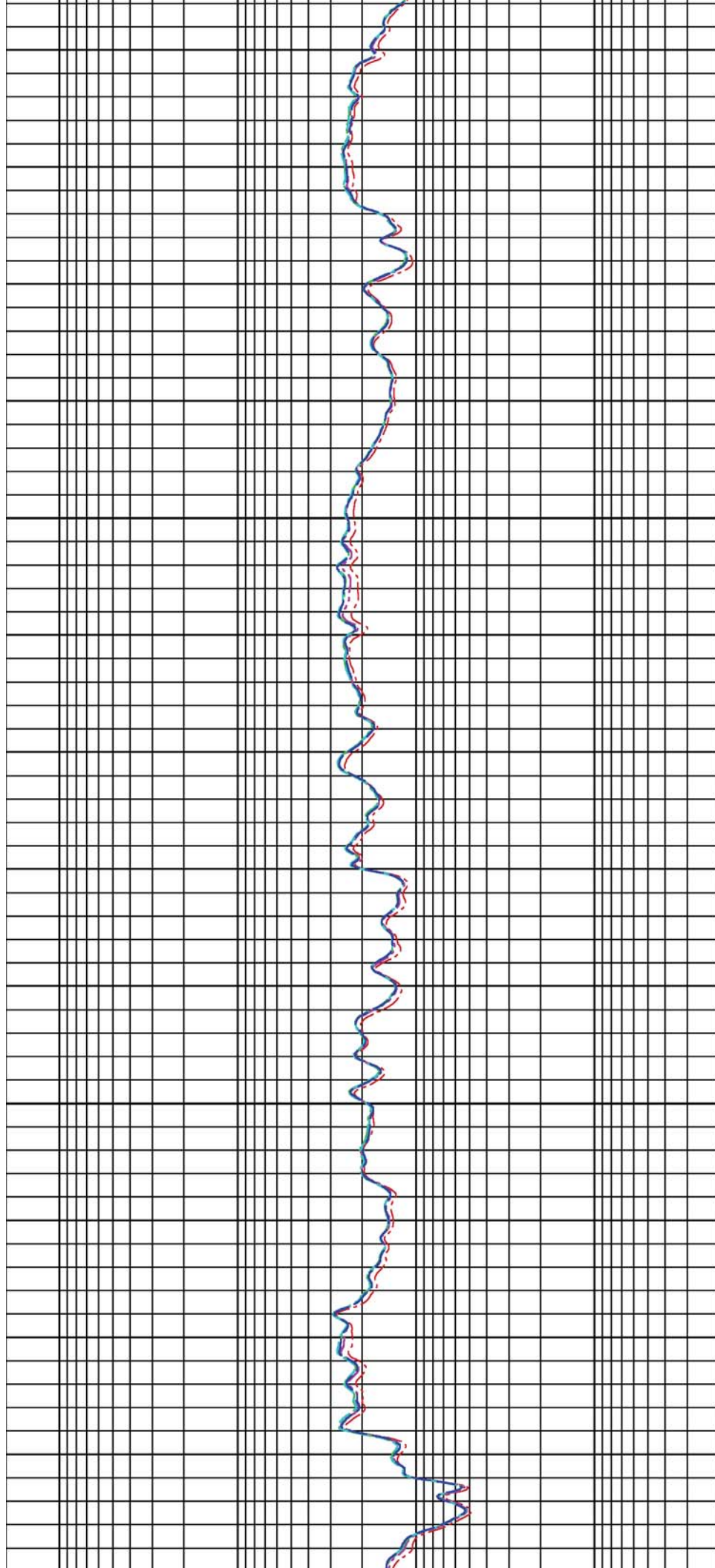


950

975

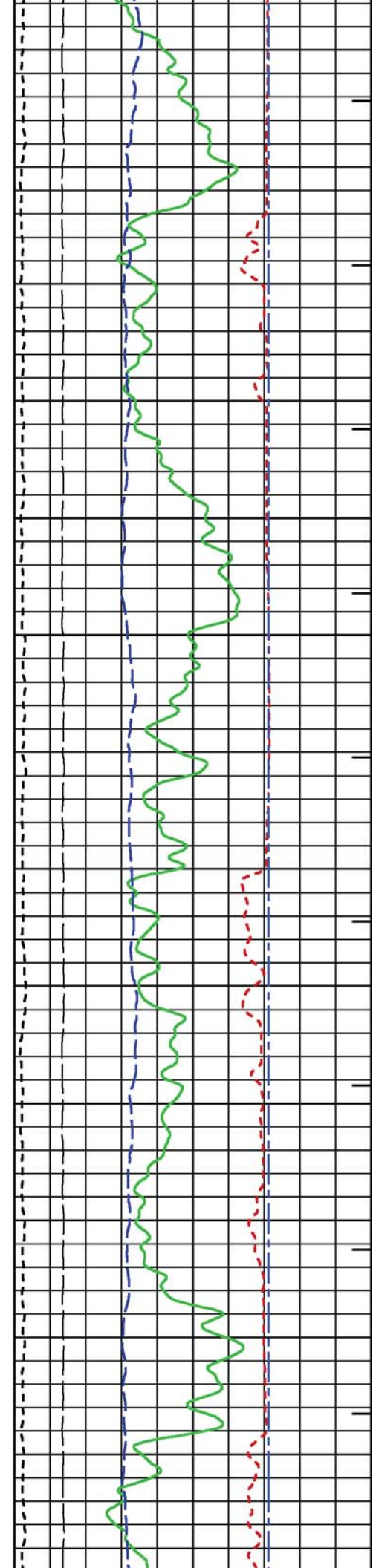
1000

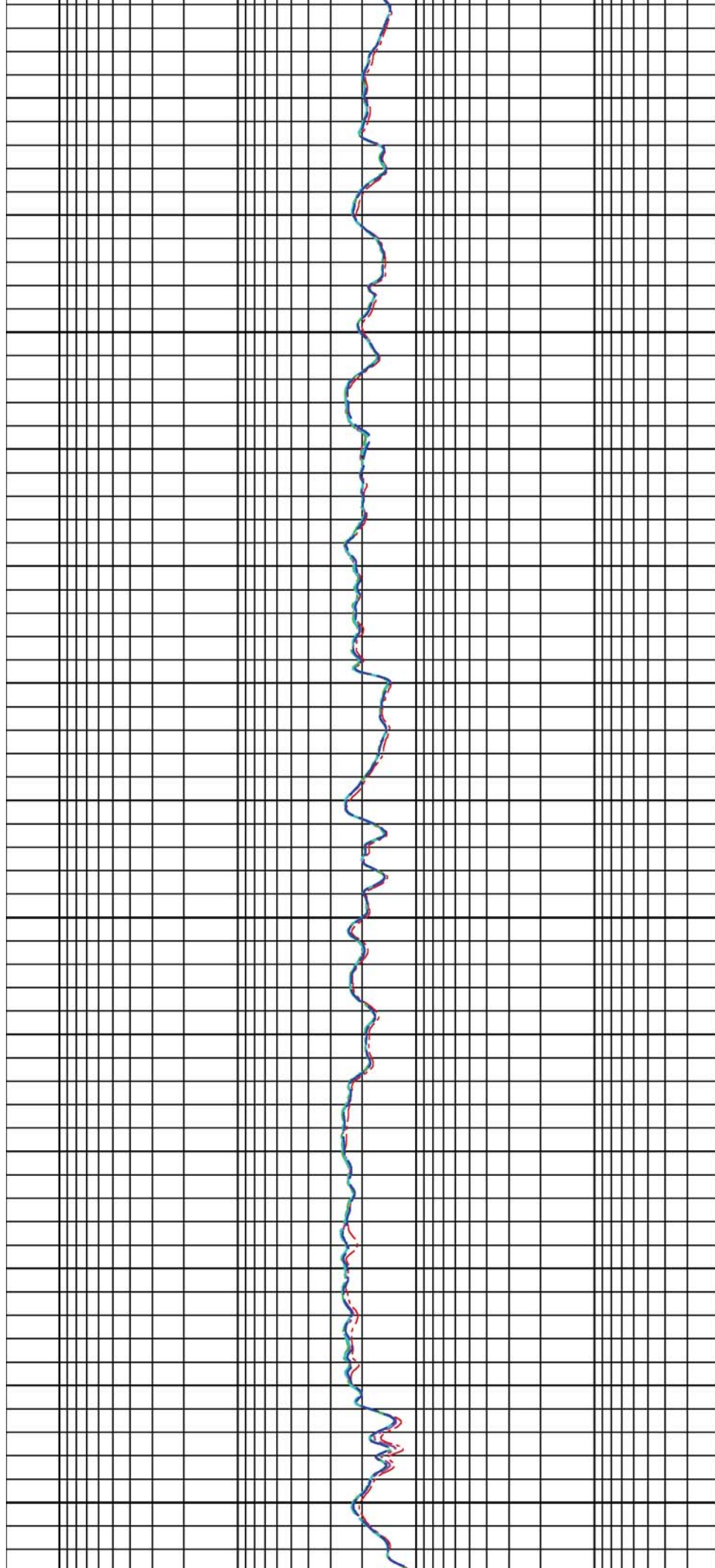




1050

1025

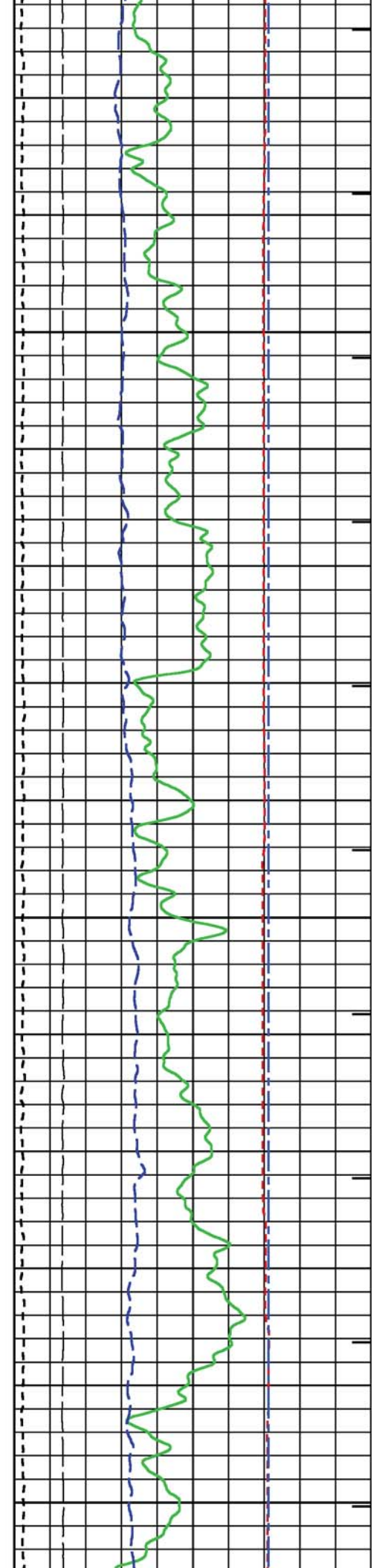


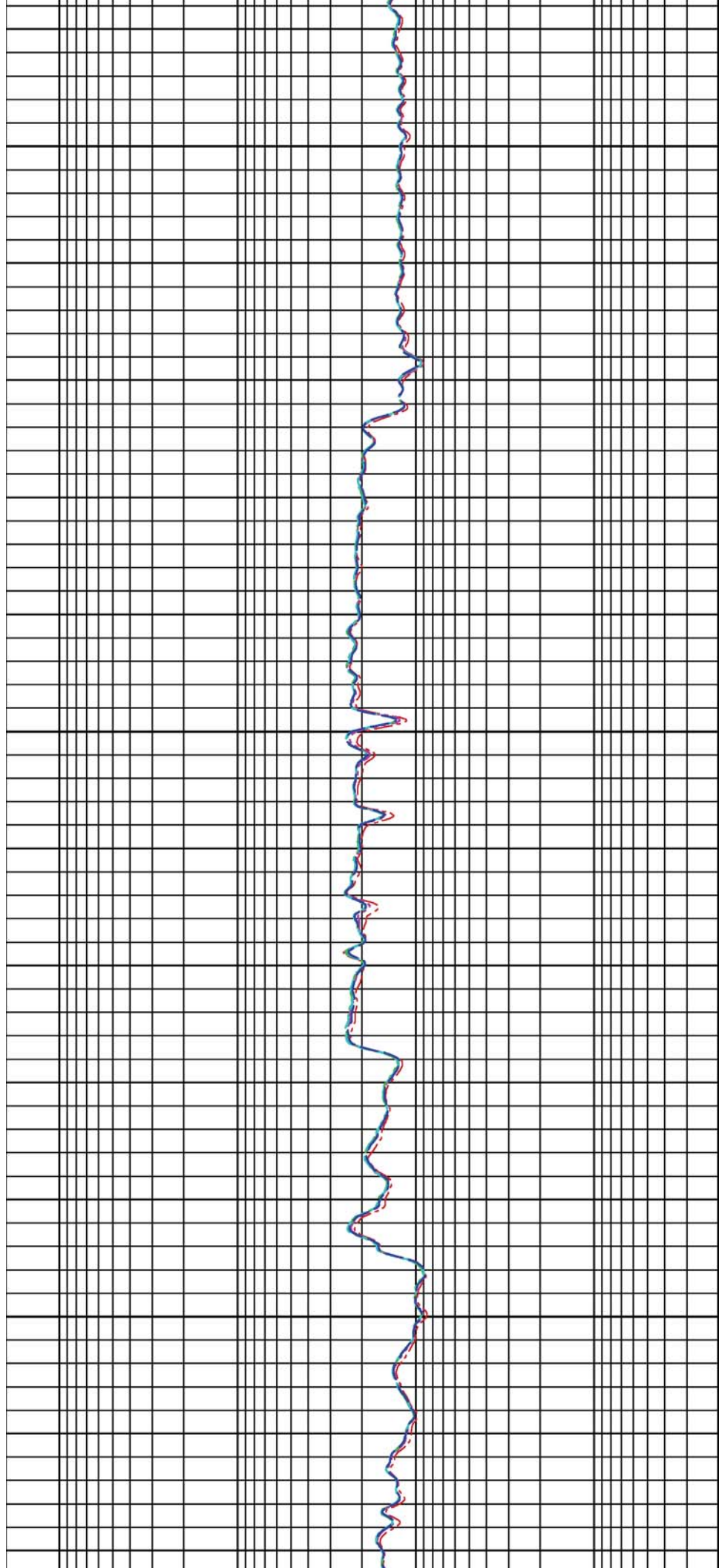


1125

1100

1075

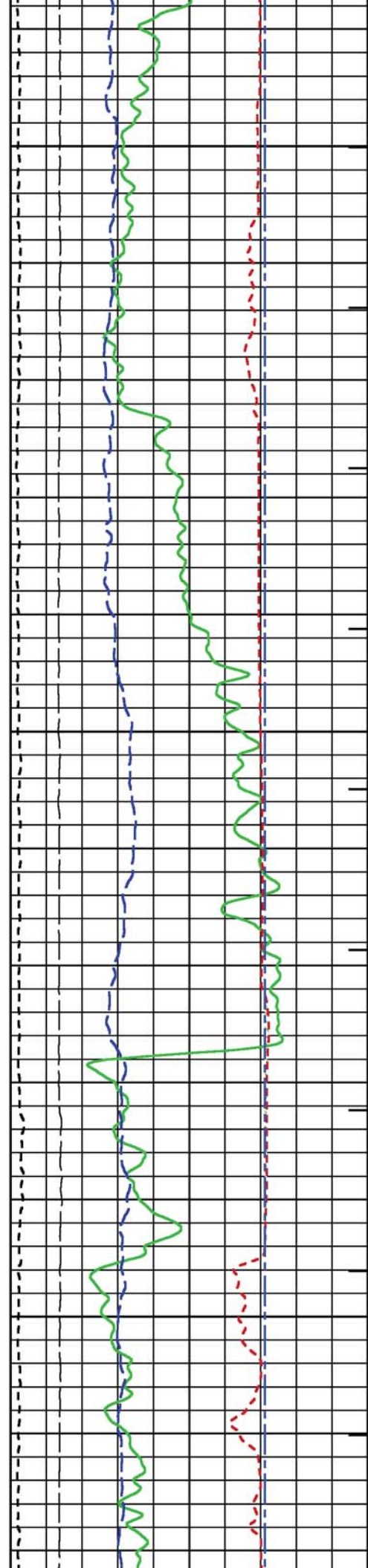


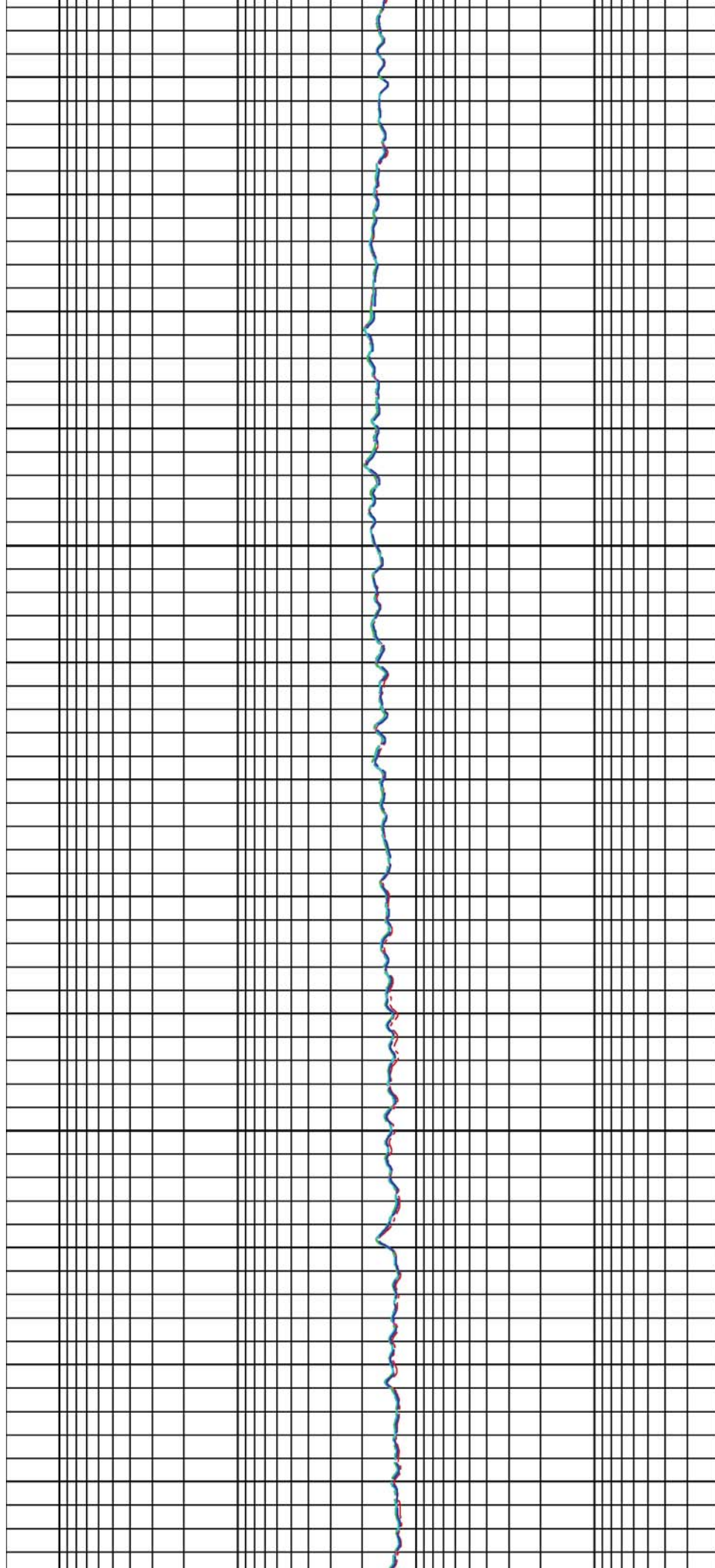


1150

1175

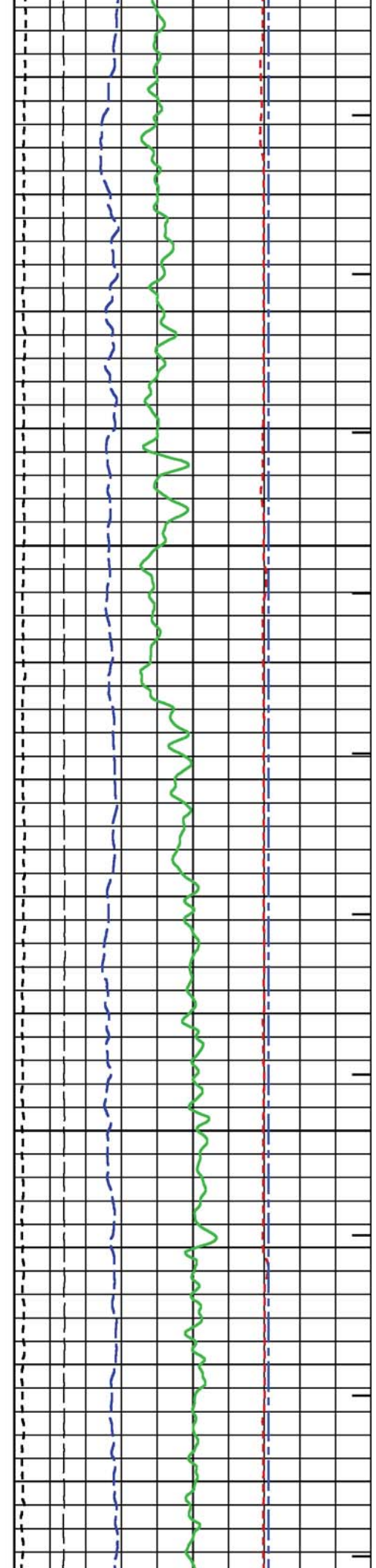
1200

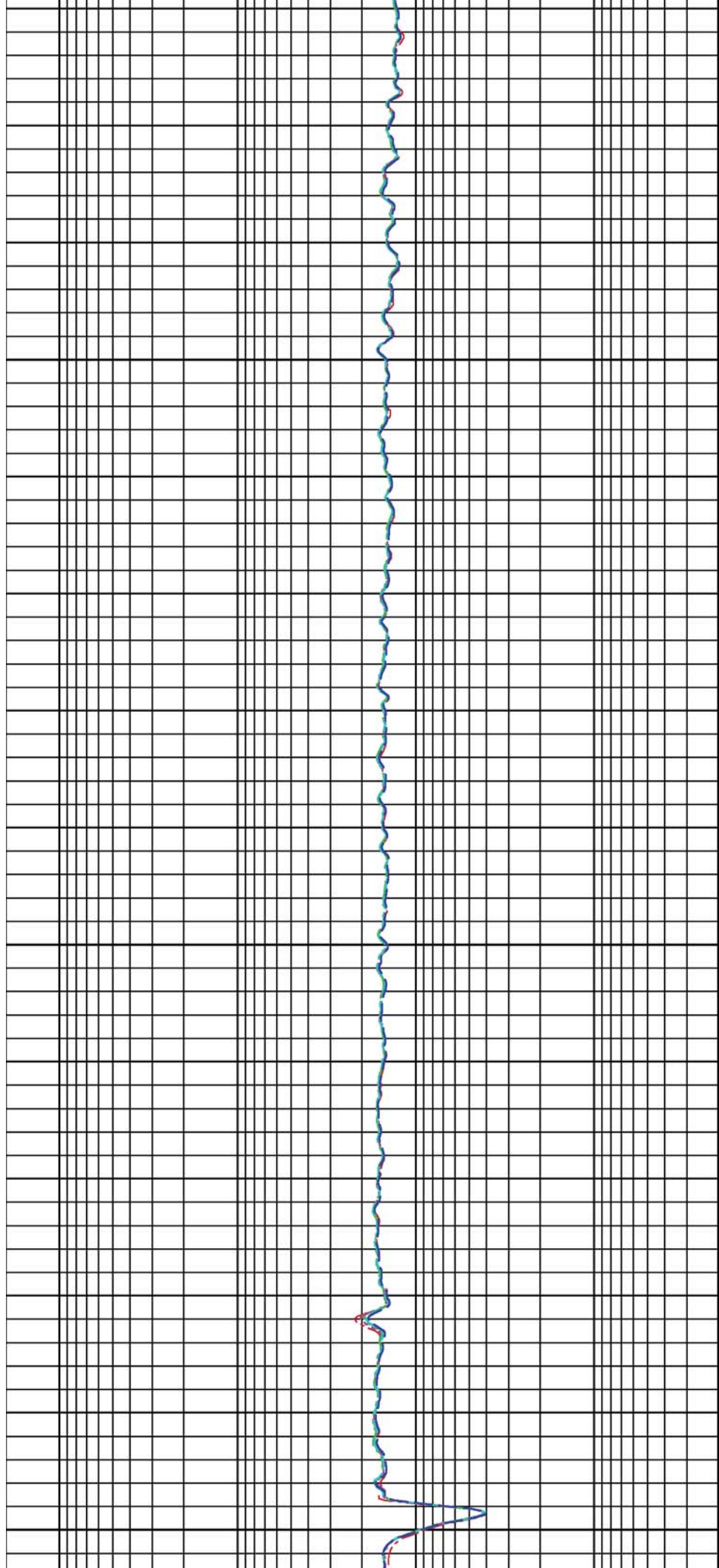




1250

1225

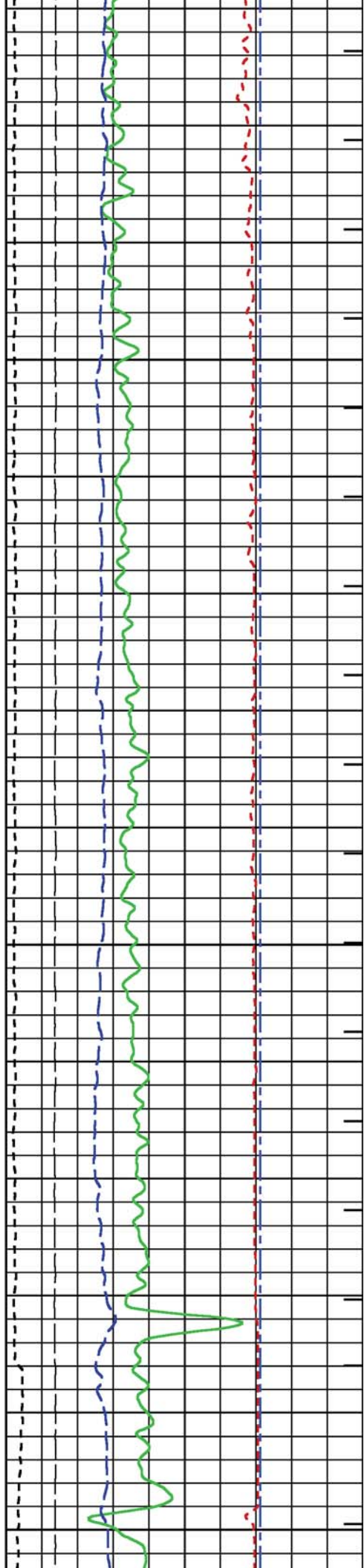


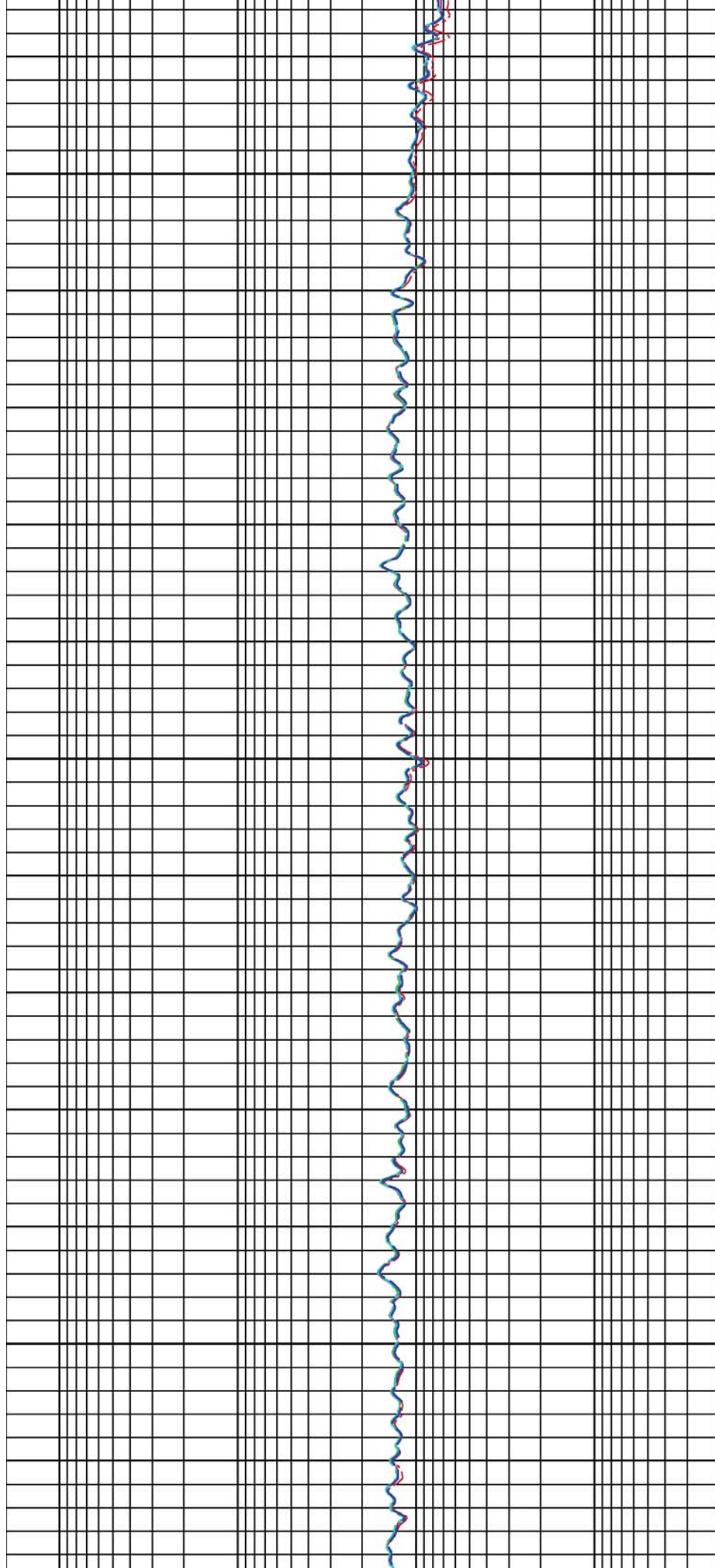


1275

1300

1325

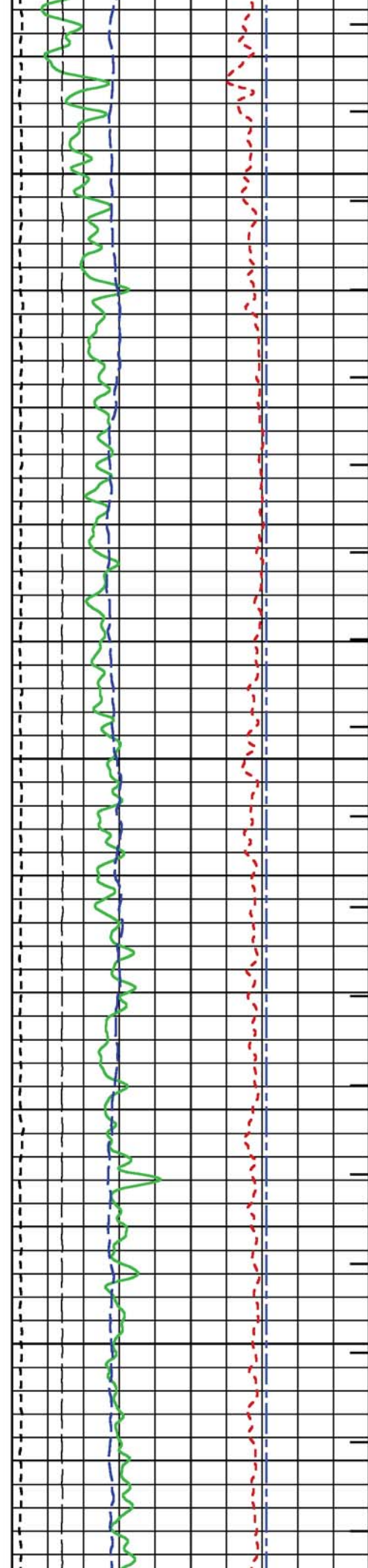


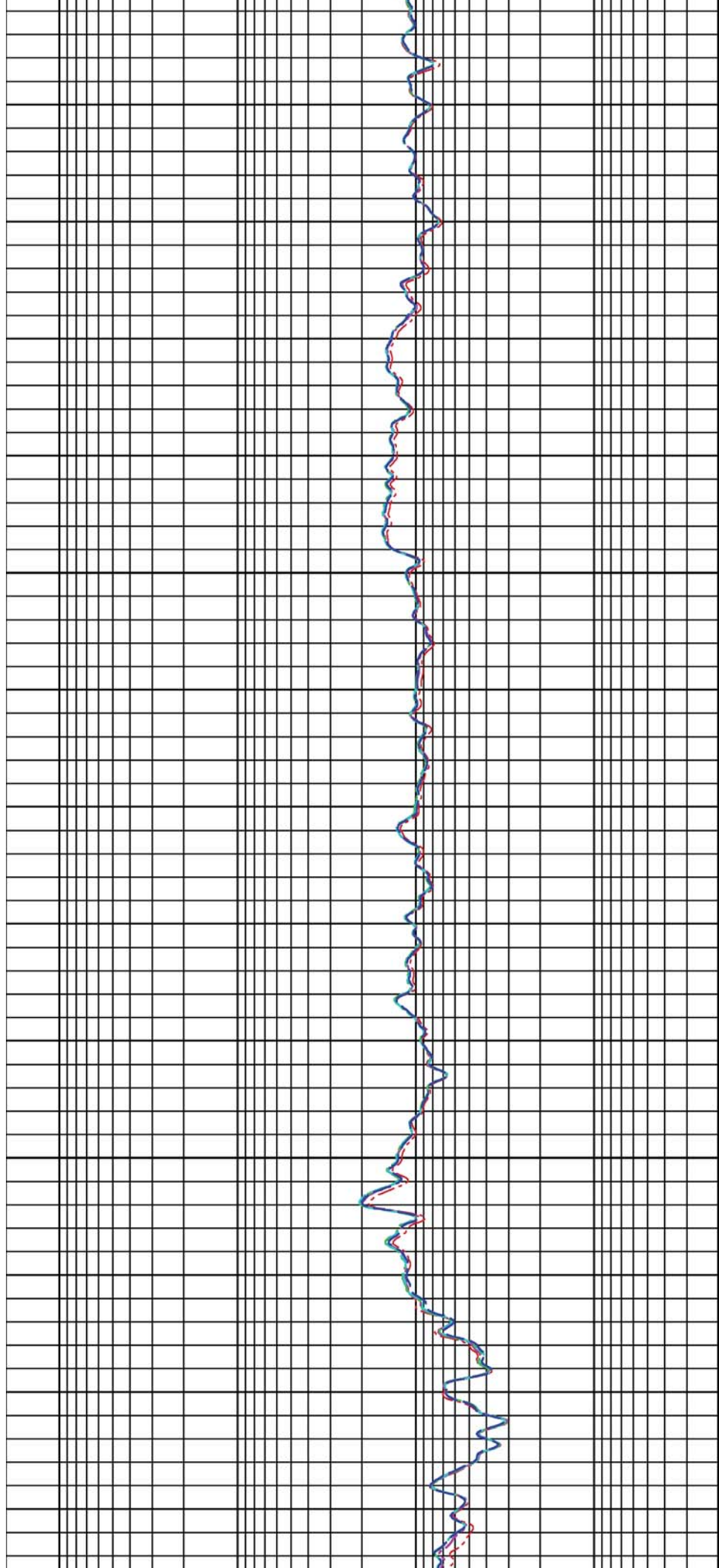


1350

1375

1400

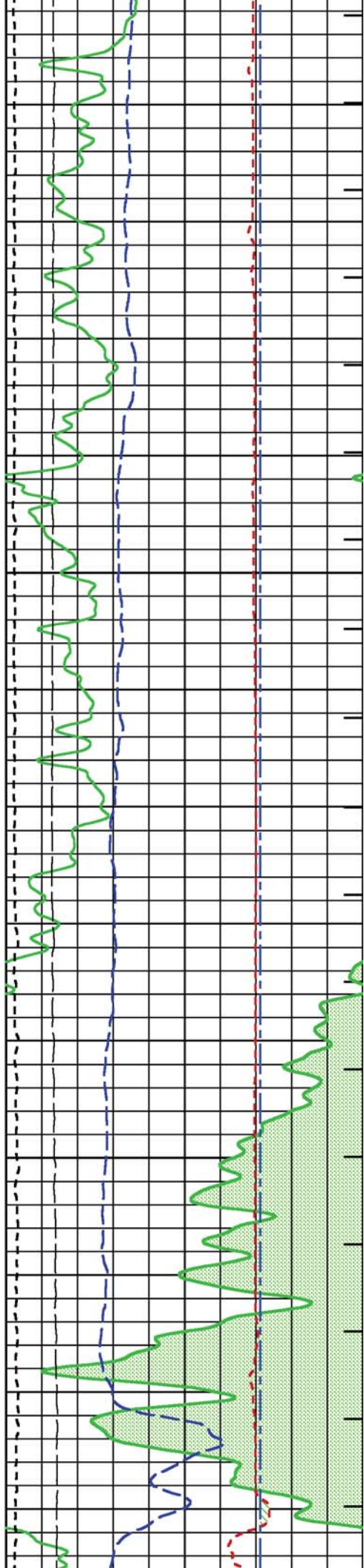


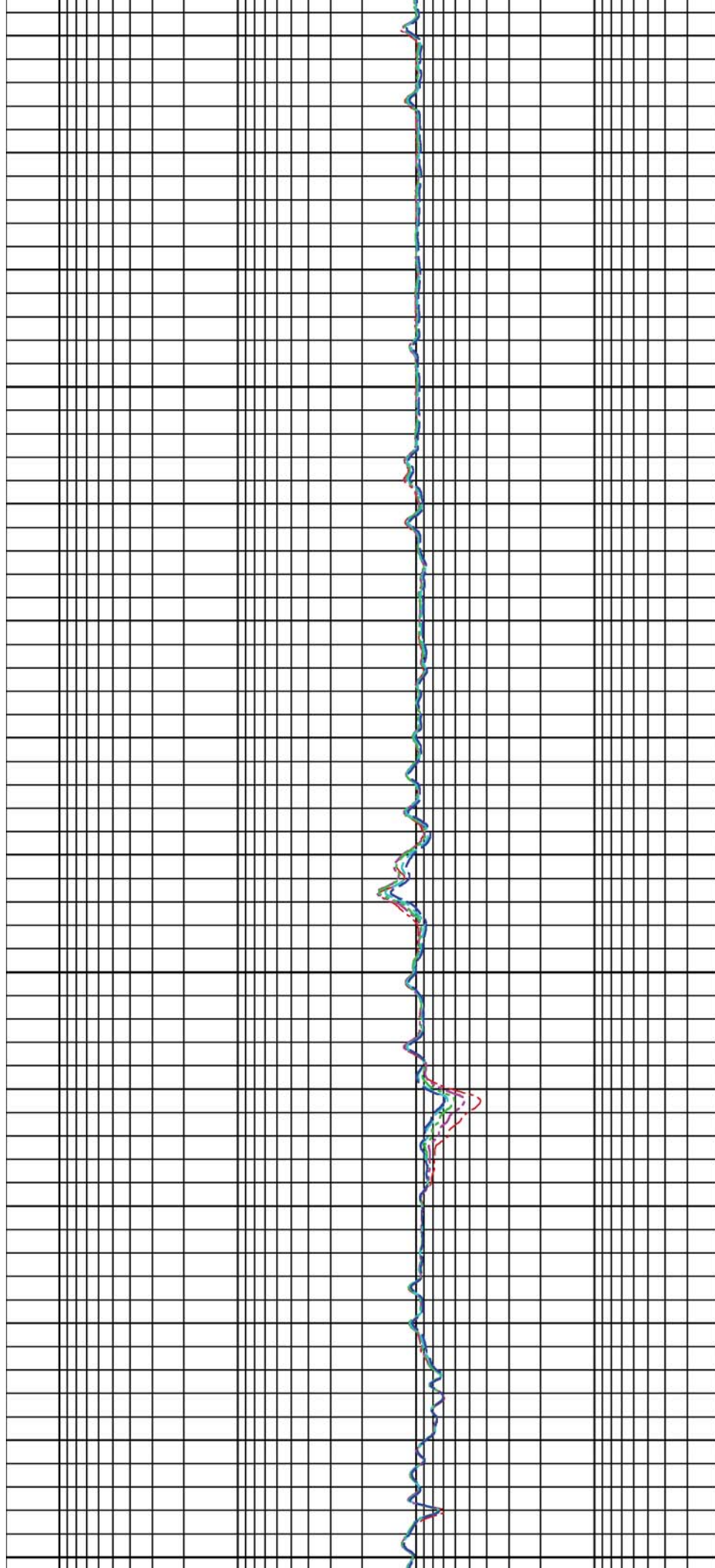


1425

1450

1

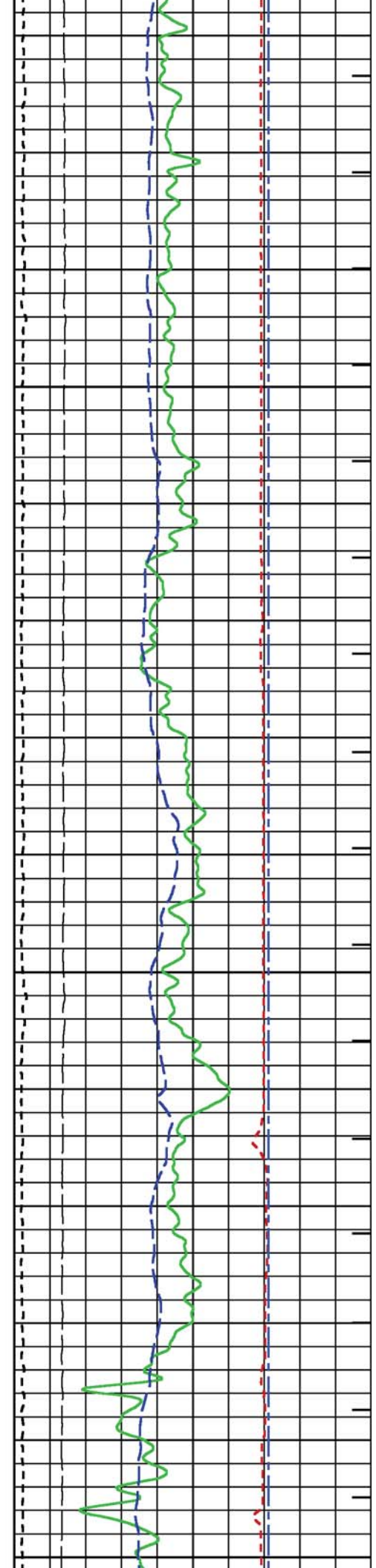


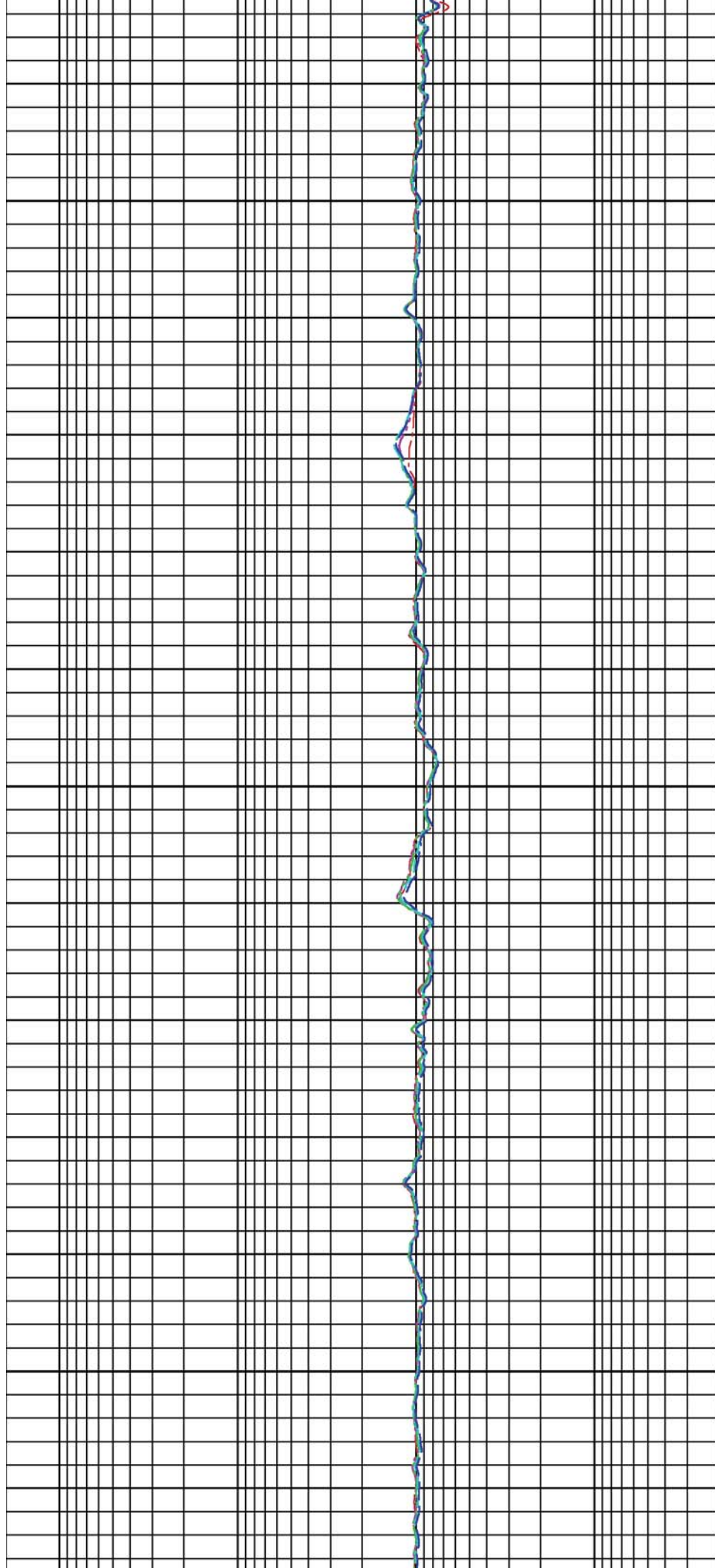


475

1500

1525

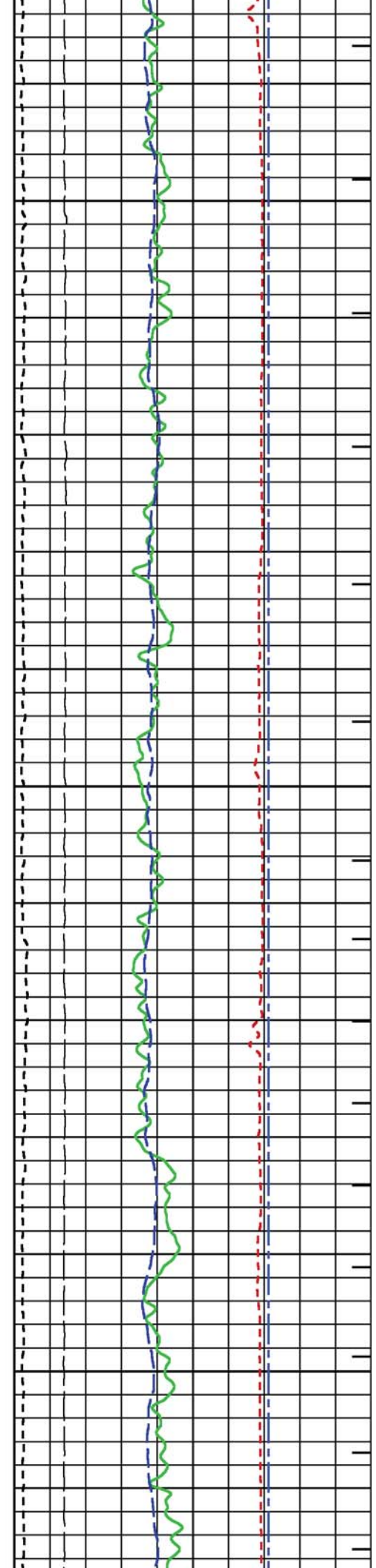


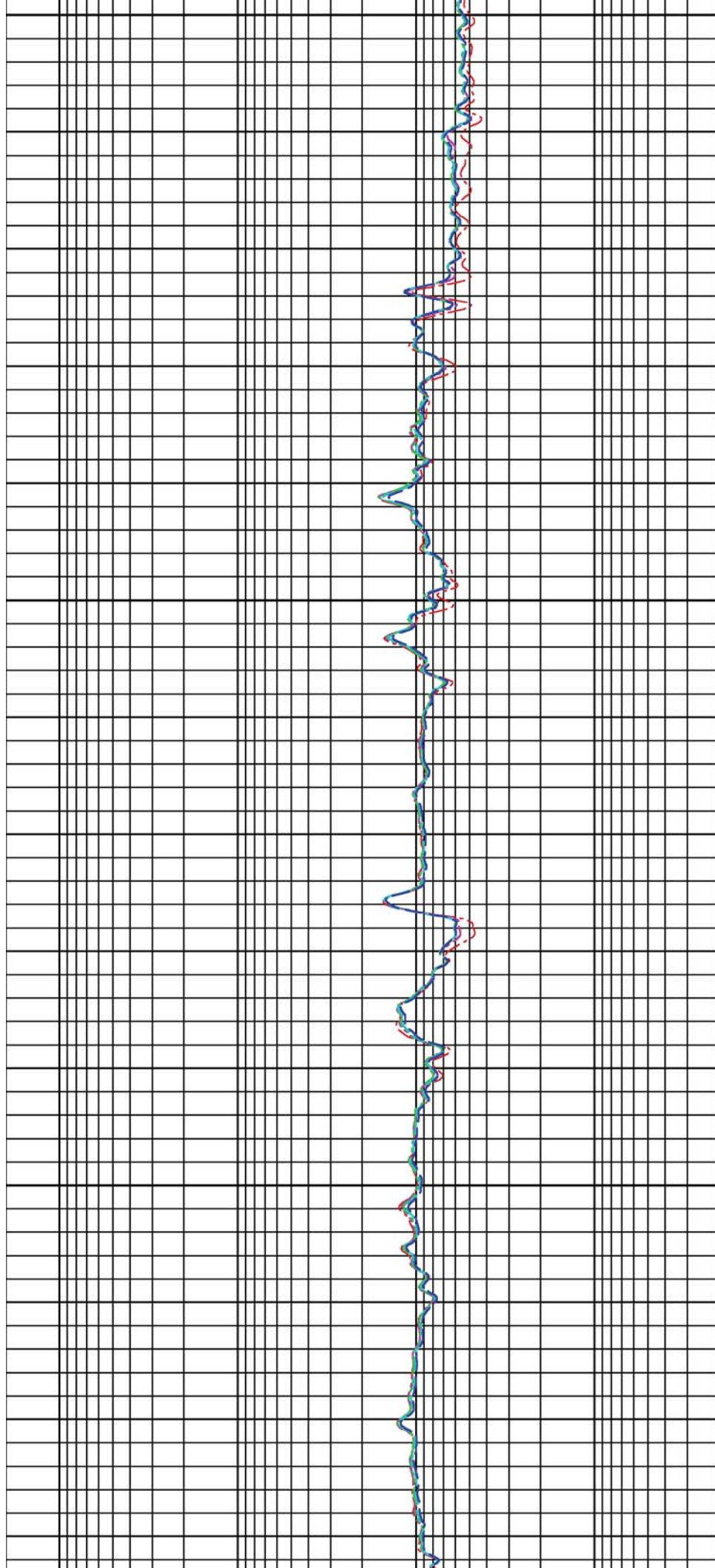


1550

1575

1600

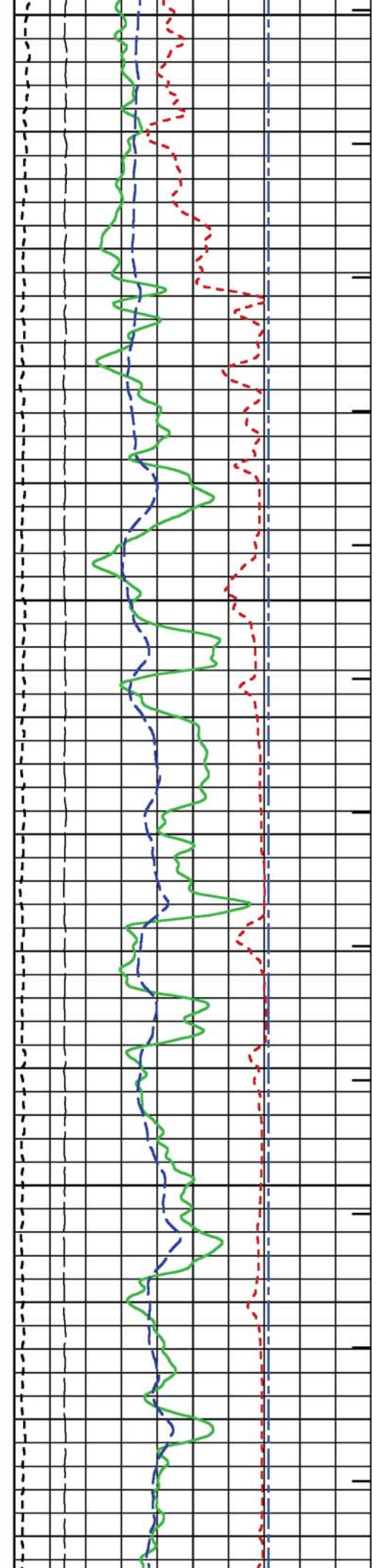


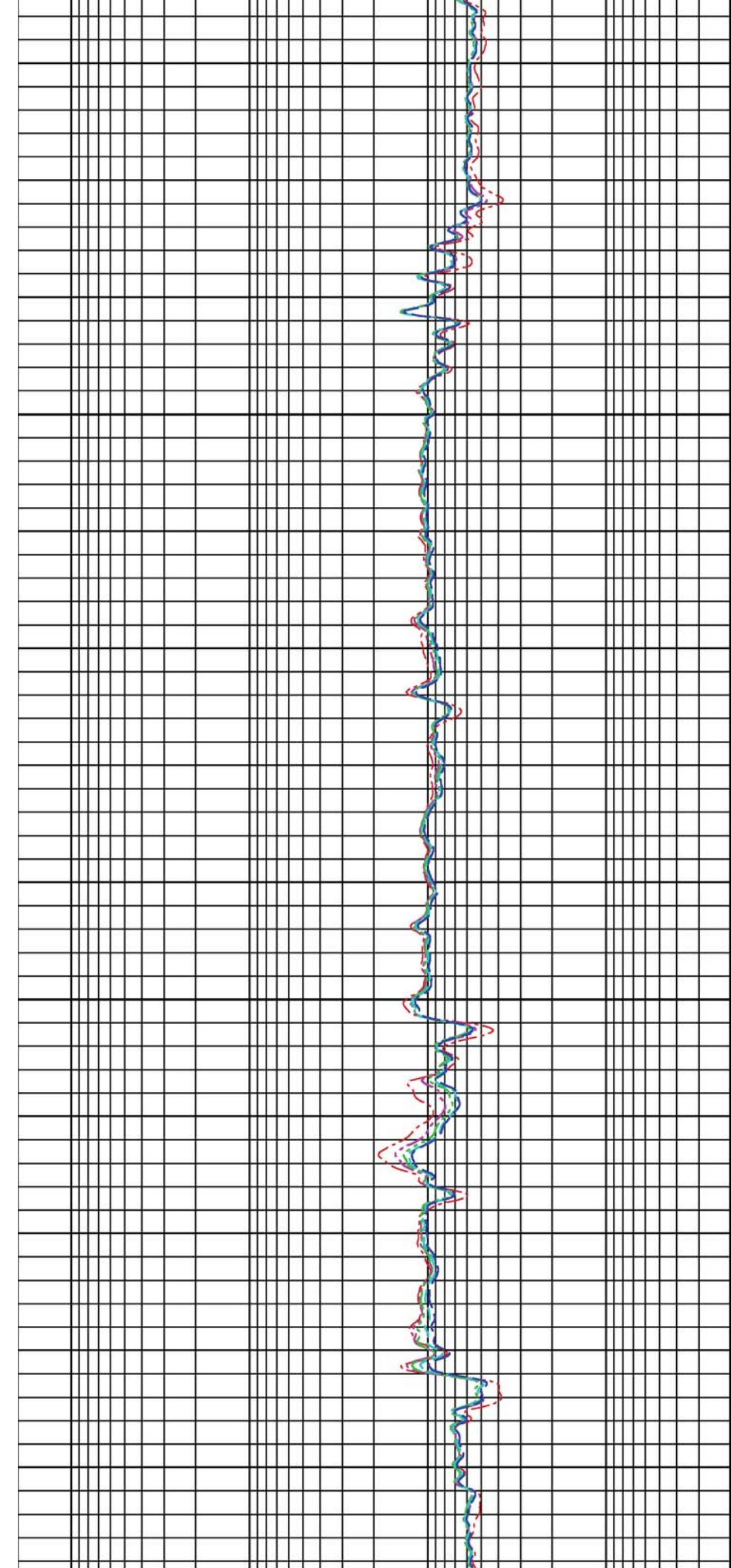


1625

1650

1675

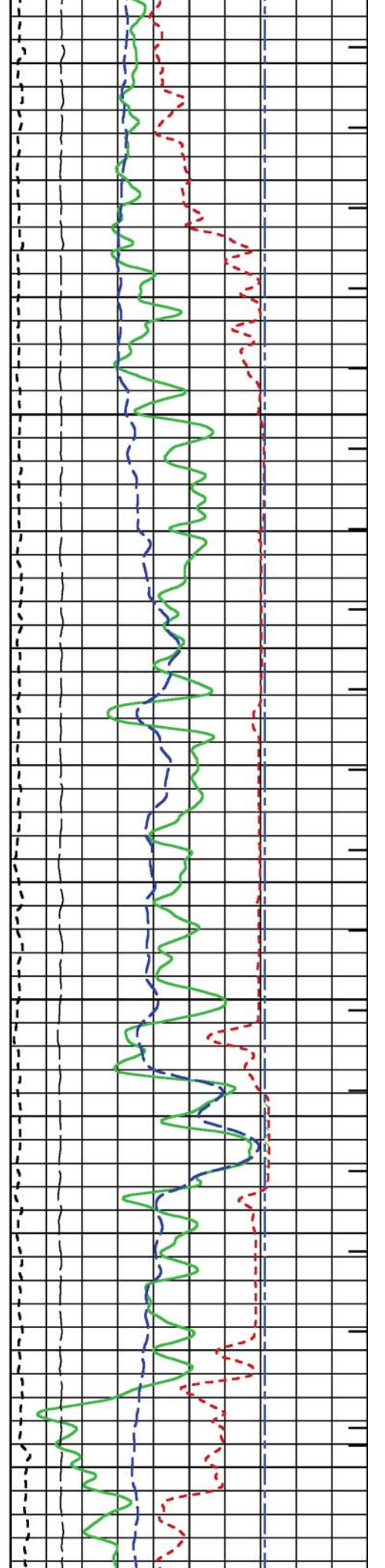


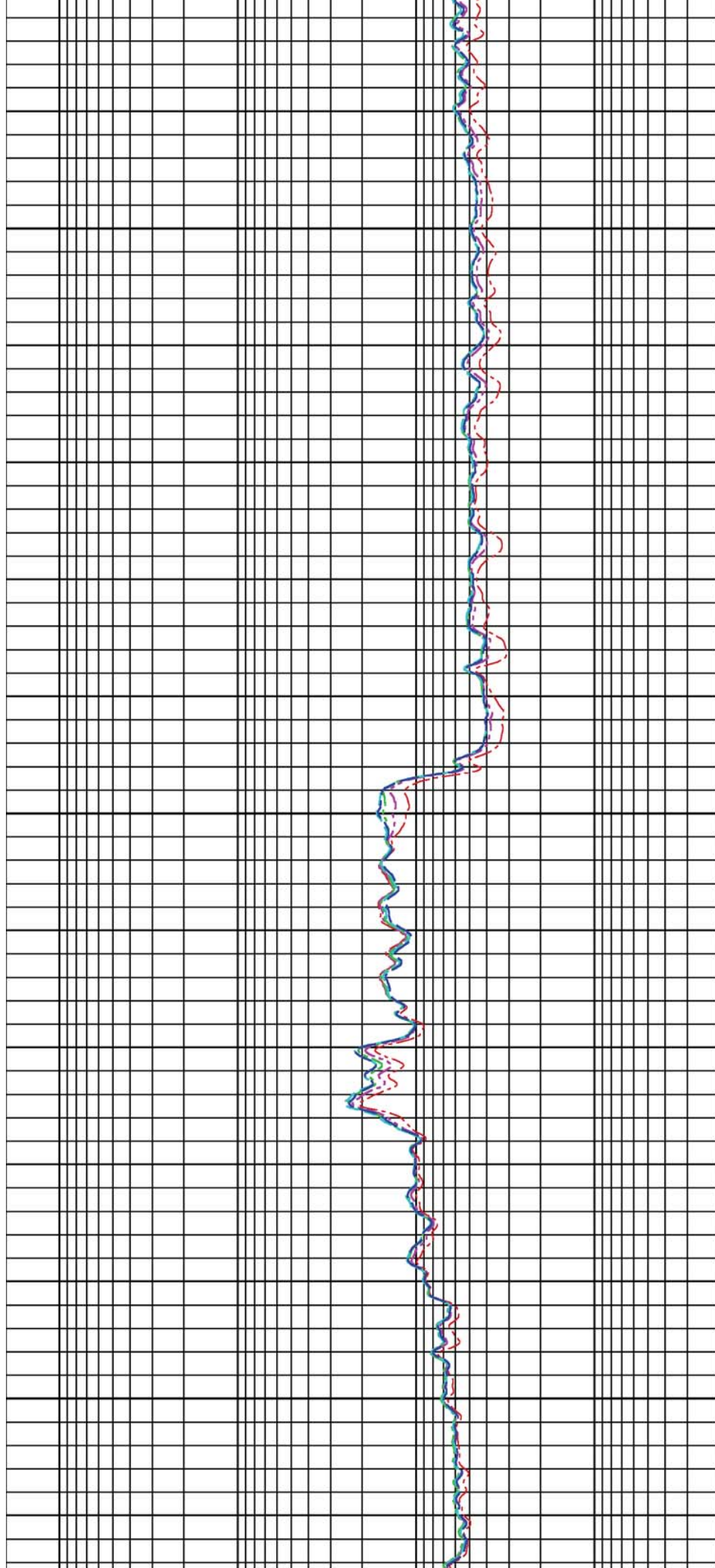


1725

1700

5

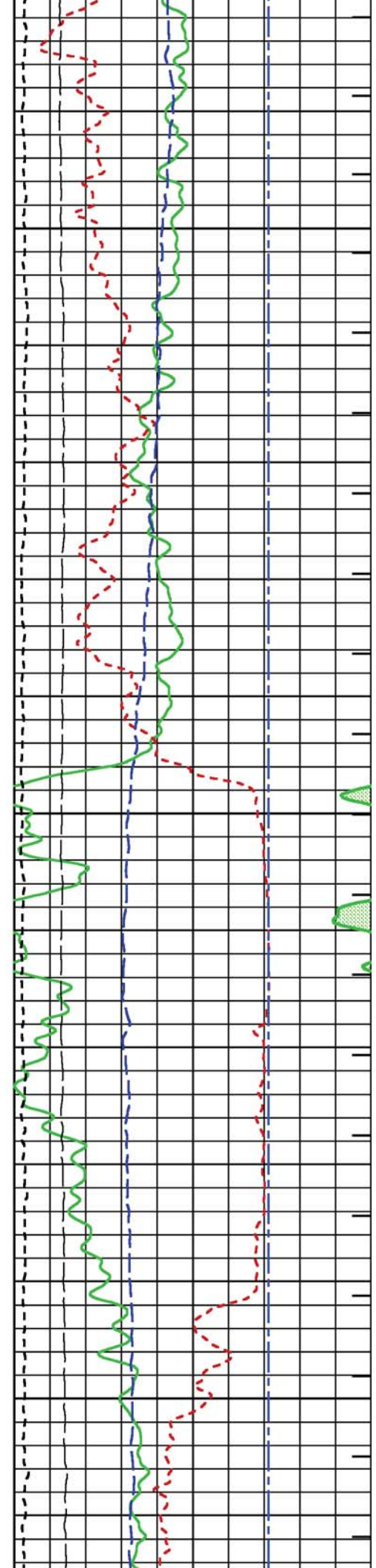


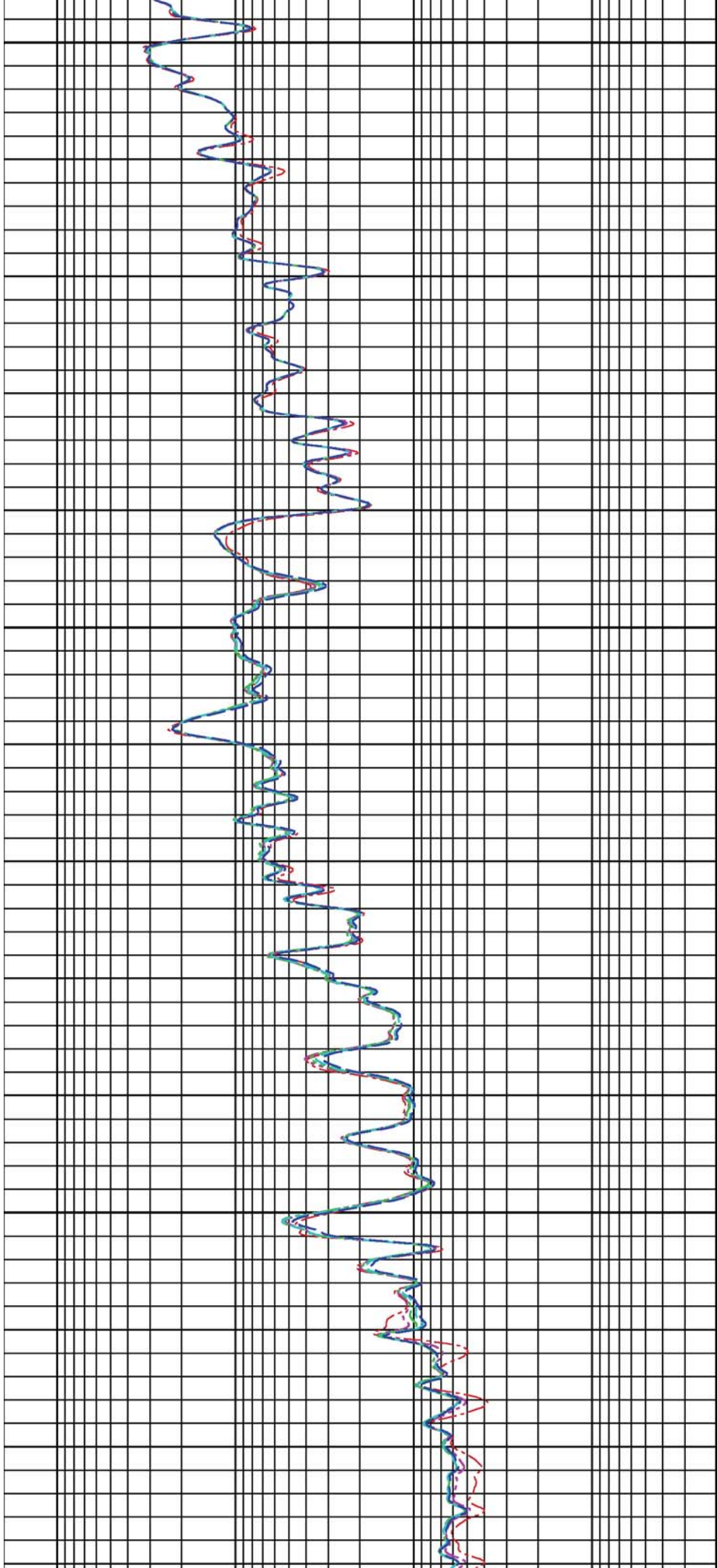


1750

1775

1800

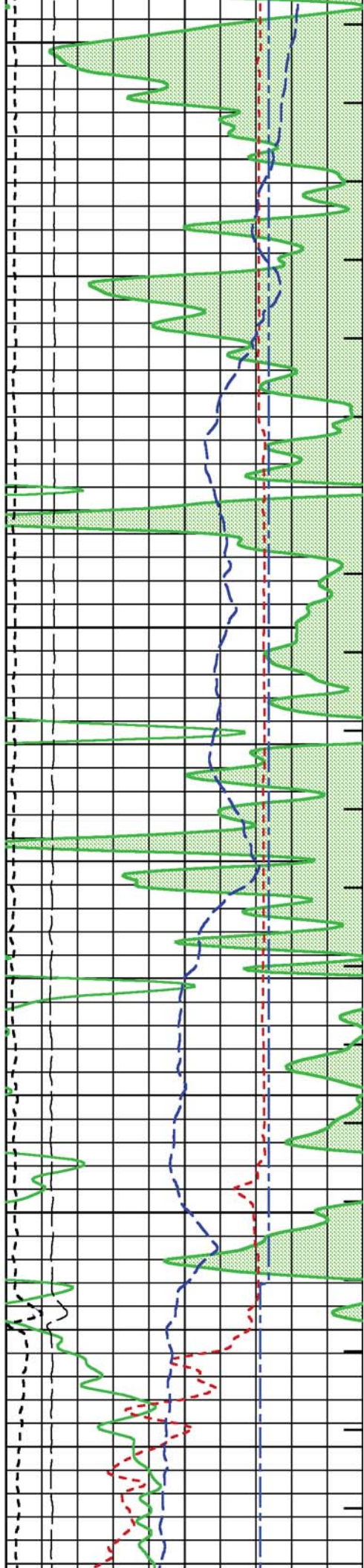


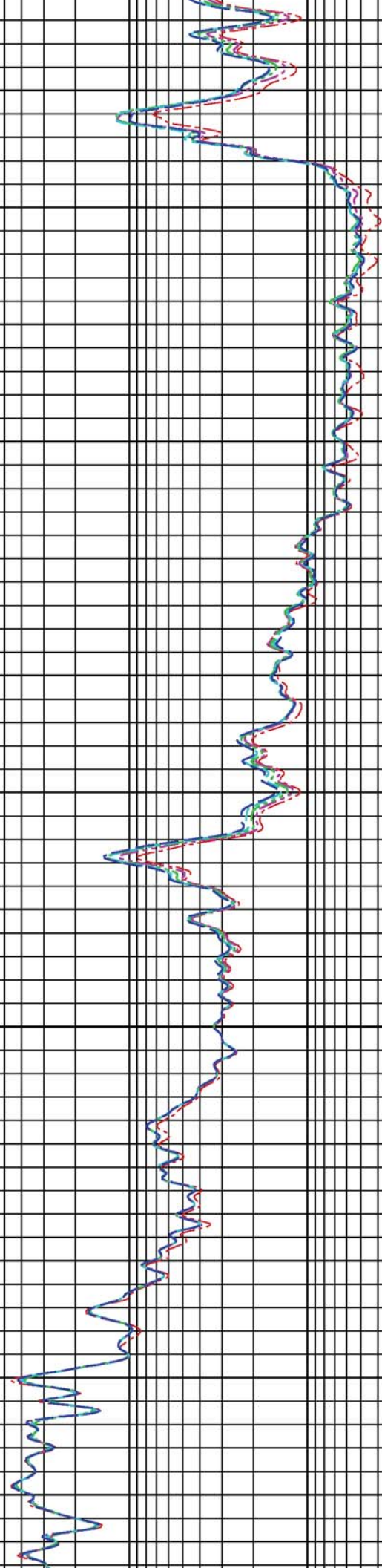


1825

1850

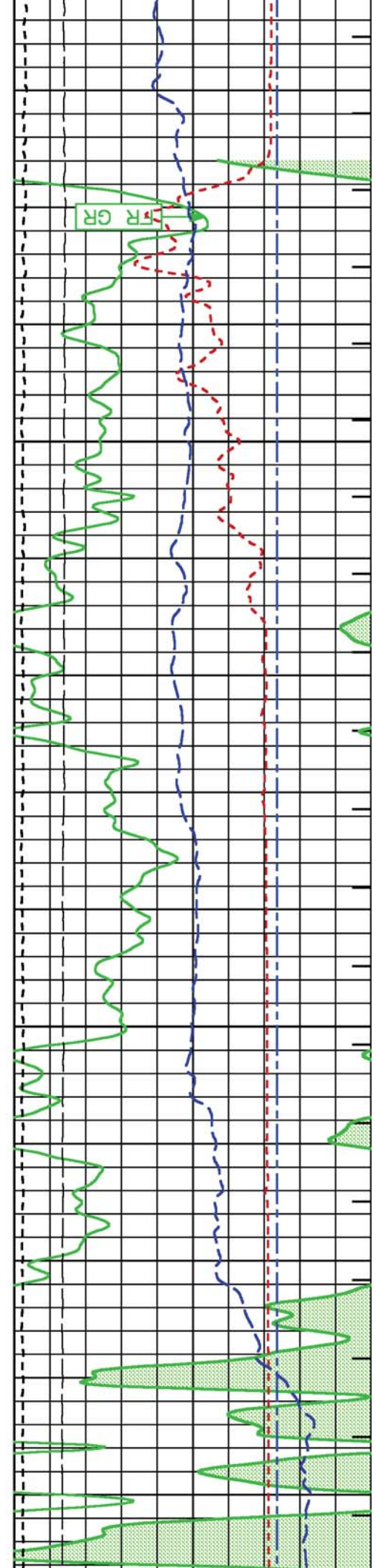
1875

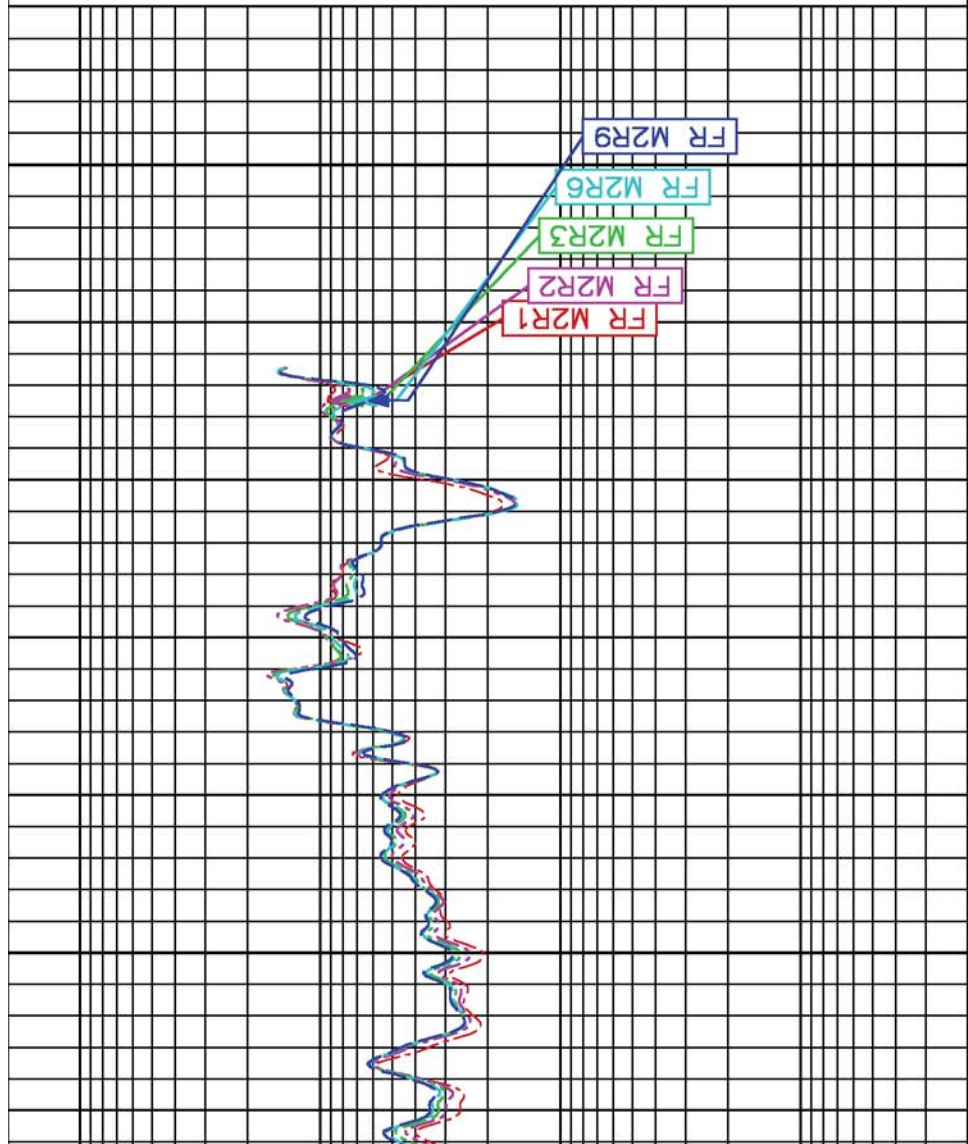
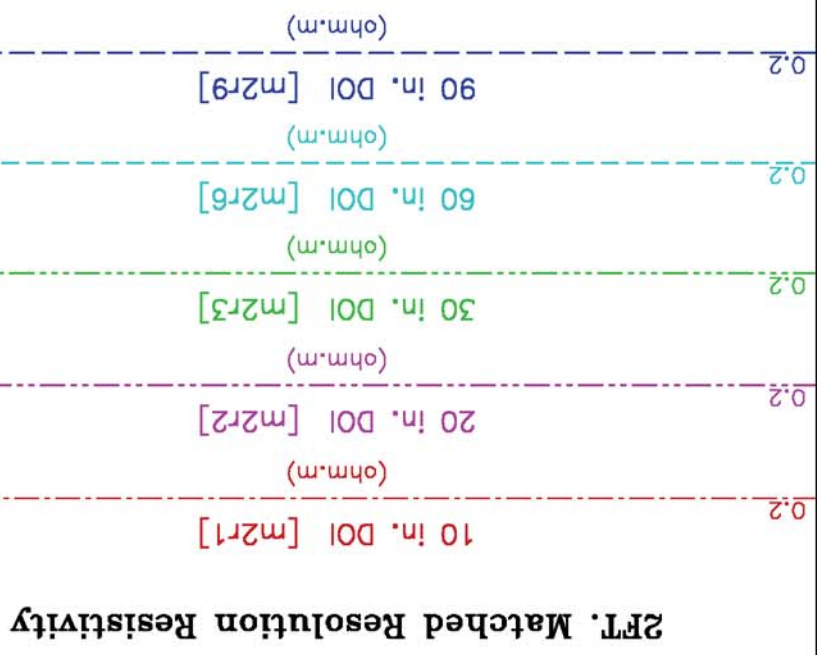
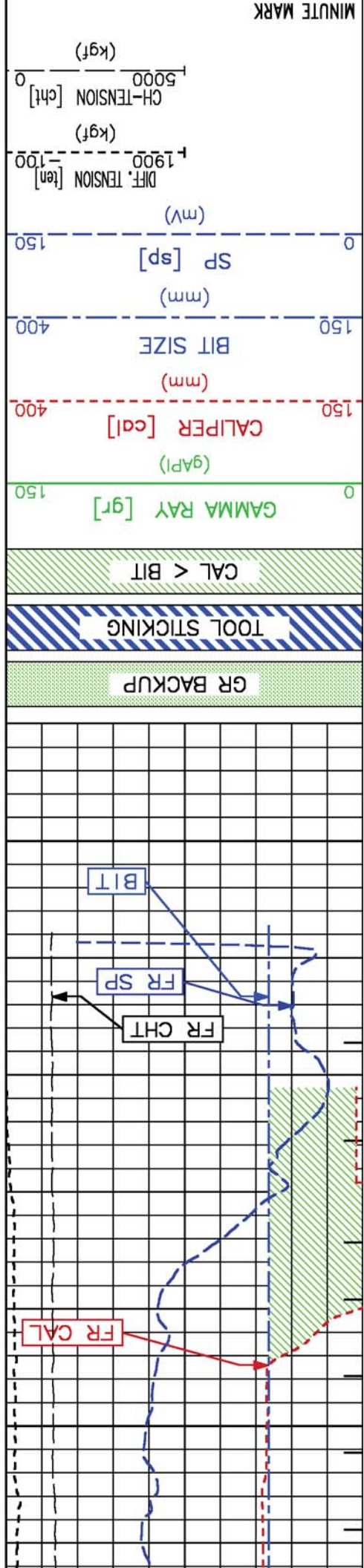




1925

1900





CALIBRATION / VERIFICATION SUMMARY

Source File: /data/MGM/run2_oh/m980e.tp1

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 10293862 DATE/TIME PERFORMED: Sun Feb 10 10:53:03 2013
UNIT #: 3815SA 008672 CALB JIG #: 4702NK DA-477

GR	38.87	966.29	927.4	0.162	6.29	156.29	150
	(cts/s)	(cts/s)	(cts/s)		(gAPI)	(gAPI)	(gAPI)
BACKGROUND CALBTR ON	CR DIFF	MULT	BACKGROUND CALBTR ON	BACKGROUND CALBTR ON	DIFF.		

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 10293862 DATE/TIME PERFORMED: Sun Feb 10 11:02:45 2013
UNIT #: 3815SA 008672 VERI JIG #: 4702NK DA-477

GR	39.18	960.56	0.162	6.34	155.36	149.02	140.00	160.00
	(cts/s)	(cts/s)		(gAPI)	(gAPI)	(gAPI)		
BACKGROUND CALBTR ON	MULT	BACKGROUND CALBTR ON	DIFF.					

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 10293862 DATE/TIME PERFORMED: Sun Feb 10 11:09:32 2013
UNIT #: 3815SA 008672 VERI JIG #: 4702NK DA-477

GR	40.98	963.64	0.162	6.63	155.86	149.23	139.02	159.02
	(cts/s)	(cts/s)		(gAPI)	(gAPI)	(gAPI)		
BACKGROUND CALBTR ON	MULT	BACKGROUND CALBTR ON	DIFF.					

CAL PRIMARY CALIBRATION SUMMARY

TOOL # : 2223XA 10391896 DATE/TIME PERFORMED: Fri Jan 18 17:30:07 2013

UNIT # : S23 8672

SIZE VALUE MULTIPLIER ADD

(mm)

SMALL RING (Arm)

177.800

1199.6

LARGE RING (Arm)

279.400

2200.0

0.10156

55.96938

PAD CLOSED

1723.2

0.06350

-109.42319

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL # : 2223XA 10391896 DATE/TIME PERFORMED: Sat Feb 16 01:03:10 2013 DAYS SINCE CAL: 28

UNIT # : 3815SA 008672

VALUE MULTIPLIER ADD SIZE

(mm)

ARM

1680.0

0.10156

55.96938

226.6

PAD

1708.4

0.06350

-109.42319

-0.9

ACTUAL MEASURED

(mm)

226.000

225.6

215.8 236.2

DIAMETER (arm+pad)

CAL AFTER LOG VERIFICATION SUMMARY

TOOL # : 2223XA 10391896 DATE/TIME PERFORMED: Sat Feb 16 12:43:32 2013 DAYS SINCE CAL: 28

UNIT # : 3815SA 008672

VALUE MULTIPLIER ADD SIZE

(mm)

ARM

1724.0

0.10156

55.96938

231.1

PAD

1688.8

0.06350

-109.42319

-2.2

ACTUAL MEASURED

(mm)

224.400

228.9

214.2 234.6

DIAMETER (arm+pad)

CAL[2] PRIMARY CALIBRATION SUMMARY

TOOL #: 2223XA 10102923 DATE/TIME PERFORMED: Fri Jan 18 18:11:06 2013

UNIT #: S23 8672

SIZE VALUE MULTIPLIER ADD
SMALL RING (Arm) 177.800 1040.0
LARGE RING (Arm) 279.400 2060.0 0.09961 74.20783
PAD CLOSED 1784.0 0.06350 -113.28400

CAL[2] BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10102923 DATE/TIME PERFORMED: Sat Feb 16 01:03:18 2013 DAYS SINCE CAL: 28

UNIT #: 3815SA 008672

VALUE MULTIPLIER ADD SIZE
ARM 1488.0 0.09961 74.20783 222.4 (mm)
PAD 1900.0 0.06350 -113.28400 7.4

ACTUAL MEASURED
DIA METER (arm+pad) 226.000 229.8 (mm)
215.8 236.2

CAL[2] AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10102923 DATE/TIME PERFORMED: Sat Feb 16 12:42:55 2013 DAYS SINCE CAL: 28

UNIT #: 3815SA 008672

VALUE MULTIPLIER ADD SIZE
ARM 1464.0 0.09961 74.20783 220.0 (mm)
PAD 1911.6 0.06350 -113.28400 8.1

ACTUAL MEASURED
DIA METER (arm+pad) 224.400 228.1 (mm)
214.2 234.6

HDIL PRIMARY CALIBRATION SUMMARY

TOOL #: 1530XA 10125755

DATE/TIME PERFORMED: Fri Jan 18 04:30:03 2013

UNIT #: 3815SA 008672 GRCOND ID & DATE: Leduc 11813

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

Coil 0 R	0.0051	-0.0016	-0.0009	0.0007	-0.0012	0.0005	0.0002	0.0003
Coil 0 Q	-0.0048	-0.0021	0.0009	-0.0010	0.0003	0.0005	-0.0006	-0.0000
Coil 1 R	-0.0073	0.0001	-0.0007	0.0019	-0.0002	-0.0001	0.0004	0.0022
Coil 1 Q	-0.0169	0.0001	-0.0000	0.0013	-0.0005	-0.0005	0.0006	0.0010
Coil 2 R	-0.0001	-0.0029	0.0018	-0.0001	-0.0034	-0.0003	0.0012	-0.0018
Coil 2 Q	-0.0020	-0.0000	0.0023	-0.0020	-0.0034	-0.0005	-0.0000	0.0012
Coil 3 R	0.0030	-0.0072	0.0028	-0.0004	-0.0004	0.0020	-0.0012	-0.0040
Coil 3 Q	-0.0038	-0.0027	0.0030	0.0005	0.0002	0.0013	0.0001	-0.0016
Coil 4 R	-0.0380	0.0001	0.0056	-0.0069	0.0008	-0.0002	0.0030	-0.0033
Coil 4 Q	0.0095	0.0076	0.0011	-0.0045	0.0033	-0.0015	-0.0057	0.0001
Coil 5 R	-0.0949	-0.0102	-0.0011	0.0031	-0.0017	0.0046	0.0131	-0.0087
Coil 5 Q	0.0196	0.0146	0.0227	-0.0034	-0.0076	0.0054	0.0044	-0.0075

ELEC. GAINS

10 KHz 30 KHz 50 KHz 70 KHz 90 KHz 110 KHz 130 KHz 150 KHz

Coil 0 M	161.24	159.90	157.17	153.12	147.73	141.04	133.17	123.98
Coil 0 P	7.653	25.205	42.334	59.431	76.548	93.715	110.883	128.108
Coil 1 M	283.01	280.47	275.36	267.77	257.78	245.49	231.11	214.57
Coil 1 P	7.712	25.410	42.664	59.864	77.071	94.270	111.496	128.682
Coil 2 M	571.86	566.67	556.16	540.76	520.61	495.72	466.91	433.66
Coil 2 P	7.810	25.663	43.072	60.425	77.755	95.107	112.453	129.813
Coil 3 M	928.30	919.66	902.11	876.20	842.46	800.98	752.74	697.61
Coil 3 P	7.934	26.028	43.686	61.276	78.835	96.396	113.972	131.521
Coil 4 M	1448.5	1435.5	1409.4	1371.0	1320.8	1259.3	1188.0	1107.8
Coil 4 P	7.838	25.730	43.189	60.587	77.981	95.375	112.787	130.196
Coil 5 M	2924.6	2869.4	2787.5	2681.9	2552.7	2404.0	2238.3	2074.3

Coil 5 P	AM Factor									
	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz		
	2450.0	3450.0	2420.0	3400.0	2410.0	3320.0	2350.0	3200.0	2280.0	3080.0
	7.980	26.148	43.889	61.558	79.212	96.848	114.481	132.078		
	6.000	10.000	20.000	31.000	35.000	52.000	49.000	73.000	65.000	94.000

Coil 5 P	AM Factor									
	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz		
	-1089	-633	-499	-429	-380	-343	-318	-296		
	-3200	940	-1400	-20	-930	-150	-760	-160	-680	-130
	-15000	11000	-5800	3800	-3700	2100	-2700	1400	-2200	1000
	-812	-589	-484	-436	-410	-395	-388	-383		
	-15000	11000	-5800	3800	-3700	2100	-2700	1400	-2200	1000
	-113	-126	-120	-114	-107	-100	-94	-90		
	-750	480	-360	83	-280	9	-230	-10	-200	-26
	-262	-123	-95	-85	-81	-79	-78	-76		
	-3300	3300	-1100	960	-630	530	-470	360	-380	260
	-3300	3300	-1100	960	-630	530	-470	360	-380	260
	-23.4	-25.5	-31.0	-29.3	-27.3	-25.5	-23.4			
	-85.0	76.0	-64.0	-12.0	-51.0	-16.0	-42.0	-39.0	-46.0	-17.0
	-47.7	-13.0	-9.4	-8.5	-7.3	-6.4	-4.4	-2.5		
	-1500.0	1900.0	-500.0	610.0	-290.0	350.0	-220.0	260.0	-180.0	190.0
	-9.0	-9.4	-10.2	-9.4	-9.6	-9.0	-8.2	-8.1		
	-23.0	21.0	-22.0	1.6	-21.0	-1.3	-20.0	-1.8	-19.0	-2.0
	-540.0	530.0	-180.0	180.0	-100.0	110.0	-71.0	81.0	-51.0	66.0
	-17.0	13.0	-12.0	2.70	-11.0	1.50	-9.80	0.52	-9.90	0.96
	-2.68	-3.14	-3.77	-4.22	-3.42	-3.44	-3.92	-3.68		
	-18.00	13.00	-12.00	2.70	-11.00	1.50	-9.80	0.52	-9.90	0.96
	40.00	17.61	14.37	14.73	16.32	18.15	20.81	23.34		
	-250.00	280.00	-79.00	98.00	-43.00	64.00	-27.00	51.00	-18.00	46.00
	-8.24	-2.09	-2.01	-2.16	-1.98	-1.99	-2.15	-2.41		
	-56.00	51.00	-8.40	3.60	-6.90	1.10	-6.90	1.10	-9.30	2.90
	12.04	7.35	8.33	10.45	13.15	15.69	18.44	21.10		
	-88.00	69.00	-26.00	27.00	-14.00	22.00	-7.00	22.00	-2.50	24.00

Coil 0 M	MM Factor									
	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz		
	0.986	0.991	0.994	0.995	0.996	0.995	0.996	0.995		
	0.850	1.100	0.860	1.100	0.880	1.100	0.880	1.100	0.880	1.100
	-0.224	-0.271	-0.179	-0.098	-0.033	0.008	0.017	0.063		
	-1.500	1.500	-1.500	1.500	-1.500	1.500	-1.500	1.500	-1.500	1.500
	0.974	0.981	0.984	0.985	0.985	0.985	0.985	0.985		
	0.850	1.100	0.860	1.100	0.880	1.100	0.880	1.100	0.880	1.100
	-0.217	-0.326	-0.221	-0.134	-0.045	-0.014	0.018	0.050		
	-1.500	1.500	-1.500	1.500	-1.500	1.500	-1.500	1.500	-1.500	1.500
	0.999	0.999	1.000	1.000	1.000	1.001	1.000	1.001		
	0.890	1.100	0.890	1.100	0.890	1.100	0.890	1.100	0.890	1.100
	-0.020	-0.058	-0.063	-0.060	-0.063	-0.041	-0.031	-0.002		
	-1.500	1.500	-1.500	1.500	-1.500	1.500	-1.500	1.500	-1.500	1.500
	1.007	1.008	1.009	1.009	1.009	1.009	1.008	1.007		
	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
	-0.011	-0.018	-0.015	0.007	0.018	0.049	0.115	0.143		
	-1.500	1.500	-1.500	1.500	-1.500	1.500	-1.500	1.500	-1.500	1.500
	1.001	1.002	1.003	1.003	1.004	1.003	1.004	1.005		
	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
	-0.017	-0.058	-0.062	-0.058	-0.022	0.002	0.021	0.030		
	-1.500	1.500	-1.500	1.500	-1.500	1.500	-1.500	1.500	-1.500	1.500
	0.997	0.997	0.997	0.997	0.998	0.998	0.998	0.999		
	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
	-0.036	-0.046	-0.055	-0.065	-0.026	0.066	0.033	0.026		

[illegible]

PARAMS	TCID 0	TCID 1	Cal Temp (degC)	T Factor
IDs	2.610	0.758	16.0	1.00

HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1530XA 10125755 DATE/TIME PERFORMED: Sat Feb 16 02:43:37 2013 DAYS SINCE CAL: 28

UNIT #: 3815SA 008672

[illegible]

Coil 3 P	7.437	25.921	43.690	61.349	78.982	96.612	114.233	131.862
	772.00	1060.00	764.00	1050.00	752.00	1030.00	728.00	1010.00
	49.000	52.000	49.000	72.000	63.000	93.000	77.000	114.000
	1210.0	1700.0	1205.0	1690.0	1180.0	1650.0	1140.0	1590.0
Coil 4 M	1450.1	1437.3	1411.2	1373.0	1322.5	1261.3	1189.7	1108.8
	1210.0	1700.0	1205.0	1690.0	1180.0	1650.0	1140.0	1590.0
	19.000	31.000	35.000	52.000	49.000	73.000	63.000	93.000
	2450.0	3450.0	2420.0	3400.0	2410.0	3320.0	2350.0	3200.0
Coil 4 P	7.366	25.624	43.191	60.660	78.123	95.583	113.049	130.504
	-2.000	13.000	19.000	31.000	35.000	52.000	49.000	73.000
	1210.0	1700.0	1205.0	1690.0	1180.0	1650.0	1140.0	1590.0
	-2.000	13.000	19.000	31.000	35.000	52.000	49.000	73.000
Coil 5 M	2950.7	2923.9	2869.0	2787.6	2682.7	2553.3	2403.6	2237.1
	2450.0	3450.0	2420.0	3400.0	2410.0	3320.0	2350.0	3200.0
	49.000	52.000	49.000	73.000	63.000	93.000	78.000	114.000
	1210.0	1700.0	1205.0	1690.0	1180.0	1650.0	1140.0	1590.0
Coil 5 P	7.513	26.038	43.877	61.603	79.296	97.011	114.690	132.343
	-2.000	13.000	19.000	31.000	35.000	52.000	49.000	73.000

HDIL AFTER LOG VERIFICATION SUMMARY

TOOL #: 1530XA 10125755
DATE/TIME PERFORMED: Sat Feb 16 12:44:59 2013
DAYS SINCE CAL: 29

UNIT #: 3815SA 008672

ZERO DATA(mv)		10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.005	-0.001	0.000	0.001	0.001	-0.001	-0.000	0.000	-0.000
	-0.075	0.085	-0.062	0.058	-0.031	0.029	-0.030	0.030	-0.030
Coil 0 Q	-0.004	-0.002	0.001	-0.000	-0.000	-0.000	0.000	-0.000	0.000
	-0.045	0.035	-0.122	0.118	-0.030	0.030	-0.029	0.031	-0.030
Coil 1 R	-0.005	0.002	-0.002	0.002	0.002	0.000	0.000	-0.001	0.001
	-0.084	0.076	-0.050	0.050	-0.031	0.029	-0.031	0.029	-0.028
Coil 1 Q	-0.015	-0.001	-0.000	0.000	0.001	0.000	0.002	0.000	0.000
	-0.415	0.385	-0.100	0.100	-0.029	0.031	-0.031	0.030	-0.029
Coil 2 R	0.001	-0.001	-0.002	0.000	0.000	-0.002	0.000	0.001	-0.001
	-0.070	0.070	-0.031	0.029	-0.032	0.028	-0.029	0.031	-0.031
Coil 2 Q	0.000	0.000	0.001	0.000	-0.001	-0.001	0.001	0.001	0.000
	-0.347	0.353	-0.101	0.099	-0.030	0.026	-0.028	0.029	-0.028
Coil 3 R	0.004	-0.001	-0.001	0.001	0.001	-0.001	0.002	-0.001	-0.000
	-0.031	0.049	-0.047	0.033	-0.037	0.043	-0.044	0.036	-0.042
Coil 3 Q	-0.004	-0.005	-0.000	-0.001	0.003	0.001	0.001	-0.004	-0.004
	-0.203	0.197	-0.082	0.078	-0.041	0.039	-0.043	0.037	-0.040
Coil 4 R	-0.028	0.001	0.005	-0.005	0.000	0.000	-0.004	0.001	-0.004
	-0.097	0.023	-0.060	0.060	-0.063	0.057	-0.060	0.061	-0.057
Coil 4 Q	0.009	0.004	-0.000	0.002	0.004	0.004	-0.004	-0.001	0.003
	-0.297	0.303	-0.092	0.108	-0.064	0.056	-0.065	0.055	-0.058
Coil 5 R	-0.098	-0.013	-0.005	-0.003	0.003	0.003	-0.002	0.006	0.004
	-0.185	0.055	-0.128	0.112	-0.114	0.126	-0.142	0.122	-0.126
Coil 5 Q	-0.009	0.006	0.021	-0.009	0.007	0.011	-0.011	-0.001	-0.004
	-0.616	0.584	-0.243	0.257	-0.114	0.126	-0.123	0.117	-0.128

ELEC. GAINS		10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	160.89	159.55	156.83	152.81	147.39	140.79	132.89	123.78	
	157.48	162.56	153.53	149.80	144.32	137.82	130.09	121.21	126.16
Coil 0 P	7.569	25.208	42.373	59.497	76.654	93.817	111.053	128.286	
	4.169	22.106	39.349	56.529	73.729	90.945	108.204	125.478	131.478
Coil 1 M	283.08	280.53	275.40	267.85	257.77	245.57	231.16	214.63	
	277.48	286.23	269.97	262.57	252.75	240.75	226.57	210.38	218.96
Coil 1 P	7.640	25.421	42.713	59.944	77.181	94.395	111.658	128.872	
	4.255	22.327	39.700	56.979	74.256	91.532	108.819	126.090	132.090



COMPANY
WELL

MGM ENERGY CORP
MGM SHELL EAST MACKAY I-78

FILE NO:

Coil 2 M	570.83	565.60	555.15	539.82	519.49	494.92	465.93	432.86
Coil 2 P	7.706	25.661	43.104	60.489	77.851	95.218	112.606	129.972
Coil 3 M	927.49	918.83	901.25	875.51	841.53	800.41	752.23	696.92
Coil 3 P	7.838	26.028	43.716	61.329	78.920	96.506	114.100	131.687
Coil 4 M	1448.9	1435.8	1409.9	1371.4	1321.1	1259.8	1188.5	1108.0
Coil 4 P	7.758	25.730	43.217	60.642	78.053	95.478	112.913	130.348
Coil 5 M	2950.5	2923.7	2868.6	2787.2	2681.1	2553.0	2403.0	2237.4
Coil 5 P	7.902	26.144	43.907	61.596	79.275	96.937	114.597	132.218



FIELD	PROVINCE	LOCATION:	
EAST MACKAY		LAT 64.795 N	
NORTHWEST TERRITORIES		LONG 125.722 W	
API NO:		ELEVATIONS:	
		KB 161.20 M	GL 155.00 M
		DF	DATE
		UID: 3001786450125 30	16-FEB-2013
		LICENSE: 1202	