



Company: **BILL BARRETT CORPORATION**

Well: **JOLLEY 31D-21-691**

Field: **MAMM CREEK**

County: **GARFIELD** State: **COLORADO**

County: GARFIELD		CEMENT BOND LOG CBL - VDL GAMMA RAY - CCL		
Field: MAMM CREEK				
Location: SHL: 747' FNL & 2132' FWL				
Well: JOLLEY 31D-21-691				
Company: BILL BARRETT CORPORATION				
LOCATION		SHL: 747' FNL & 2132' FWL	Elev.: K.B. 6866.00 ft	
BHL: 205' FNL & 1980' FWL		G.L. 6843.00 ft	D.F. 6865.00 ft	
Perm arent Datum: _____		GROUND LEVEL _____	Elev.: 6843.00 ft _____	
Log Measured From: _____		KELLY BUSHING _____	23.00 ft above Perm. Datum	
Drilling Measured From: _____		KELLY BUSHING _____		
Logging Date	4-May-2009	Section 21	Township 6S	Range 91W
Run Number	2			
Depth Driller	7962 ft			
Schlumberger Depth	7842 ft			
Bottom Log Interval	7826 ft			
Top Log Interval	3500 ft			
Casing Fluid Type	WATER			
Salinity				
Density	8.35 lbm/gal			
Fluid Level	23 ft			
BIT/CASING/TUBING STRING				
Bit Size	7.875 in			
From	23 ft			
To	7962 ft			
Casing/Tubing Size	4.500 in			
Weight	11.6 lbm/ft			
Grade				
From	23 ft			
To	7962 ft			
Maximum Recorded Temperatures	191 degF			
Logger On Bottom	4-May-2009	17:15		
Unit Number	411	GRAND JUNCTION		
Recorded By	MIKE SEPTON			
Witnessed By	UNATTENDED			

PVT DATA				Run 1	Run 2	Run
Oil Density						
Water Salinity						
Gas Gravity						
Bo						
Bw						
1/Bg						
Bubble Point Pressure						
Bubble Point Temperature						
Solution GOR						
Maximum Deviation						
CEMENTING DATA						
Primary/Squeeze		Primary				
Casing String No						
Lead Cement Type						
Volume						
Density						
Water Loss						
Additives						
Tail Cement Type						
Volume						
Density						
Water Loss						
Additives						
Expected Cement Top						
Logging Date						
Run Number						
Depth Driller						
Schlumberger Depth						
Bottom Log Interval						
Top Log Interval						
Casing Fluid Type						
Salinity						
Density						
Fluid Level						
BIT/CASING/TUBING STRING						
Bit Size						
From						
To						
Casing/Tubing Size						
Weight						
Grade						
From						
To						
Maximum Recorded Temperatures						
Logger On Bottom						
Unit Number						
Recorded By						
Witnessed By						

DEPTH SUMMARY LISTING

Date Created: 4-MAY-2009 16:41:25

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-C	Type:	1-25ZT
Serial Number:	3775	Serial Number:	5032	Serial Number:	411
Calibration Date:	8 JAN 2009	Calibration Date:	1 MAY 2009	Length:	13150 FT
Calibrator Serial Number:	33	Calibrator Serial Number:	1159	Conveyance Method: Wireline Rig Type: Rigless	
Calibration Cable Type:	1-25P	Number of Calibration Points:	8		
Wheel Correction 1:	-5	Calibration RMS:	6		
Wheel Correction 2:	-3	Calibration Peak Error:	10		

Depth Control Parameters

Log Sequence: Subsequent Trip To the Well

Reference Log Name: COMPENSATED PHOTO DENSITY

Reference Log Run Number: 1

Reference Log Date: 3-APR-2009

Subsequent Trip Down Log Correction: -2.00 FT

Depth Control Remarks

1. SCHLUMBERGER DEPTH CONTROL POLICY DATED FEB 2008 FOLLOWED
2. IDW USED AS PRIMARY DEPTH CONTROL, Z-CHART USED AS SECONDARY DEPTH CONTROL
- 3.
- 4.
- 5.
- 6.

DISCLAIMER

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OTHER SERVICES1
OS1: JUNK BASKET
OS2:
OS3:
OS4:
OS5:

OTHER SERVICES2
OS1:
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 1

REMARKS: RUN NUMBER 2

THIS LOG CORRELATED TO COMPENSATED PHOTO DENSITY

RAN ON 18MAR 2009 BY WEATHERFORD

TOOL STRING RAN AS PER TOOL SKETCH

4.5" 11.6 LB/FT CASING

EXPECTED FREE PIPE AMPLITUDE: 80 mV

EXPECTED TRANSIT TIME: 251uS

CYCLE SKIP DUE TO GOOD CEMENT CAUSES TT TO READ HIGH					
LOG RAN WITH NO WELLHEAD PRESSURE					
100% BOND CBL AMPLITUDE: .572 mV					
80% BOND CBL AMPLITUDE: 1.538 mV					
TD TAGGED AT 7842					
SHORT JOINT LOGGED AT: 7695'-7723' AND 5304'-5332'					
MAXIMUM TEMPERATURE OF 191 DEG F RECORDED AT TD					

RUN 1			RUN 2		
SERVICE ORDER #:		AOTD-00253	SERVICE ORDER #:		
PROGRAM VERSION:		17C0-154	PROGRAM VERSION:		
FLUID LEVEL:		23 ft	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

SURFACE EQUIPMENT					
WITM-A PSC_16MHZ					
DOWNHOLE EQUIPMENT					
MH-22 MH-22 411		37.9			
AH-38	Detail MT				
	TelStatus				
	CTEM	36.0			
PSPT-A/B		36.0			
PSC-A					
PSPT-A					
PSTC					
PBMS-A 1959					
10k Sapphire Mano					
RTD Thermometer	GR	32.3			
GR					
CCL					
PBMS 1959					
	Well Temp	29.2			
	Manometer	29.1			
	CCL	28.5			
	PBMS PSTC	27.8			
SCMT-CB		27.8			
SCMC-CA					
SECH-CA 8172					
CMIR-AG					
SCMS-CB 8300					
SCMX-CA					
	DT	18.7			
	CBL5 DTSC	17.2			
	CBL3	16.2			
	MAP	15.7			
	AUX	14.7			

AH-JB
AH-JB 411

7.7

HV
Tension SCMT 0.0
TOOL ZERO

MAXIMUM STRING DIAMETER 3.38 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET



MAIN PASS 0 PSI

MAXIS Field Log

Company: BILL BARRETT CORPORATION Well: JOLLEY 31 D-21-691

Input DLIS Files

DEFAULT SCMT_PSP_038LUP FN:33 PRODUCER 04-May-2009 17:24 7857.5 FT 3452.7 FT

Output DLIS Files

DEFAULT SCMT_PSP_039PUP FN:34 PRODUCER 04-May-2009 18:29 7858.5 FT 3454.0 FT

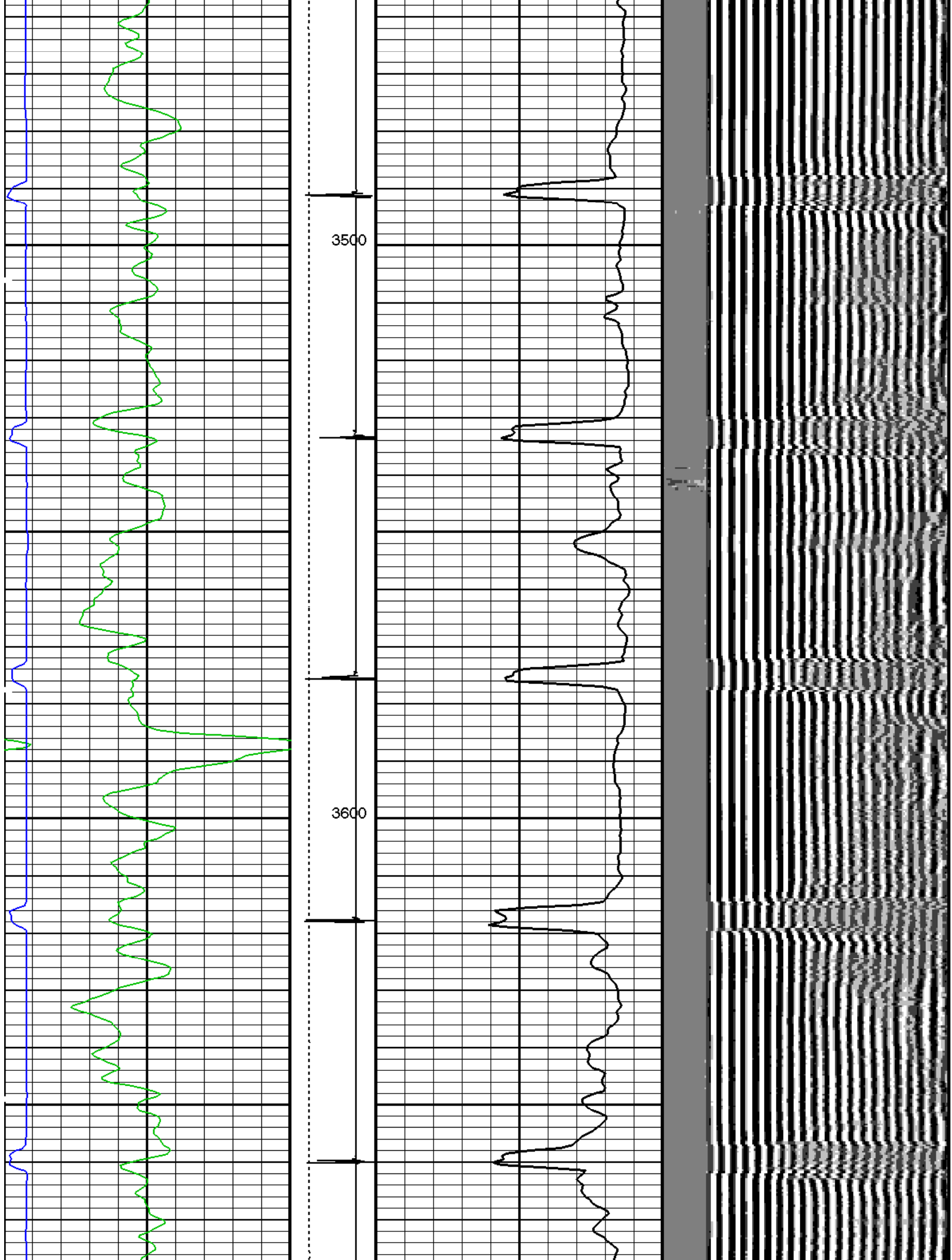
OP System Version: 17C0-154

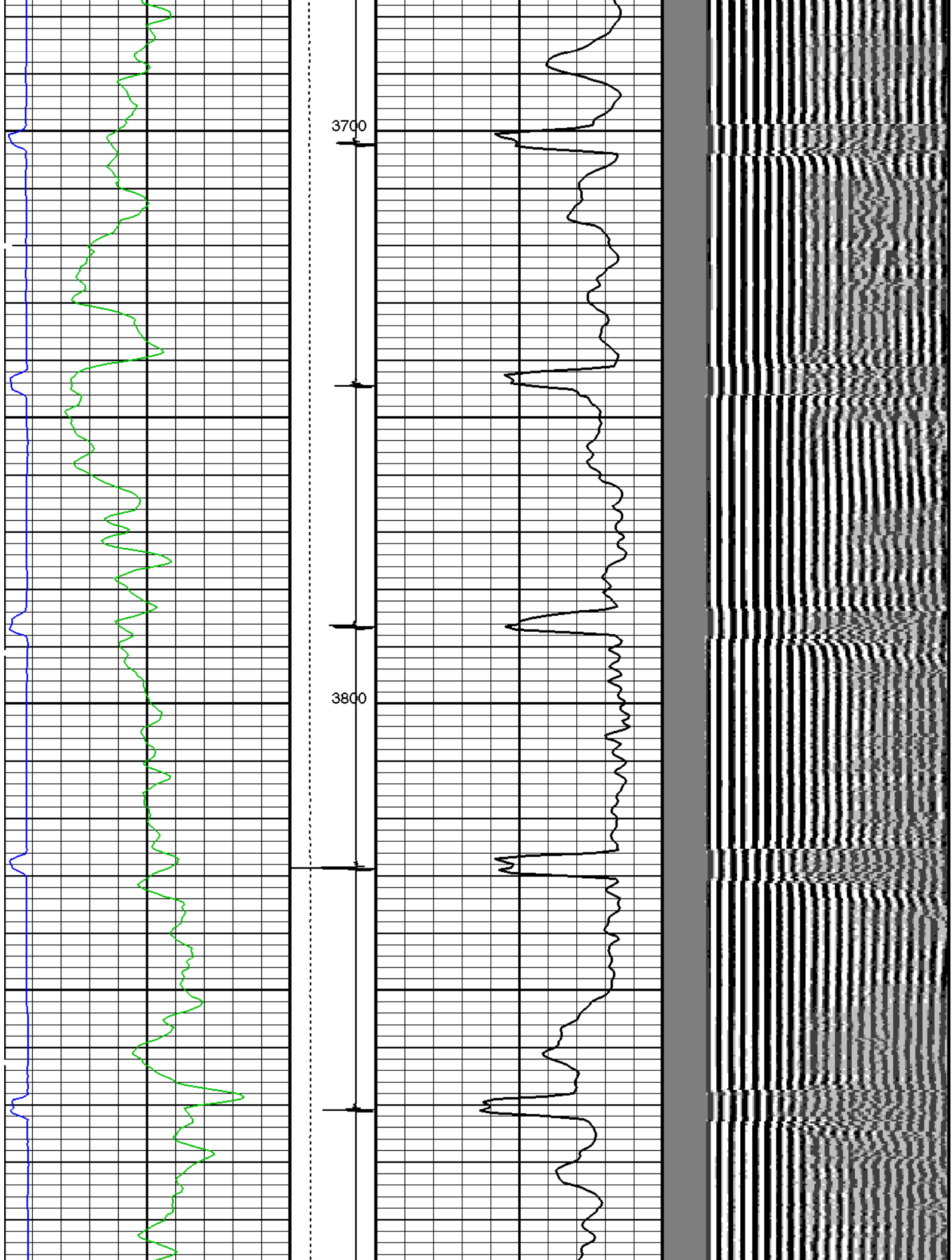
SCMT-CB 17C0-154 PSPT-A/B 17C0-154

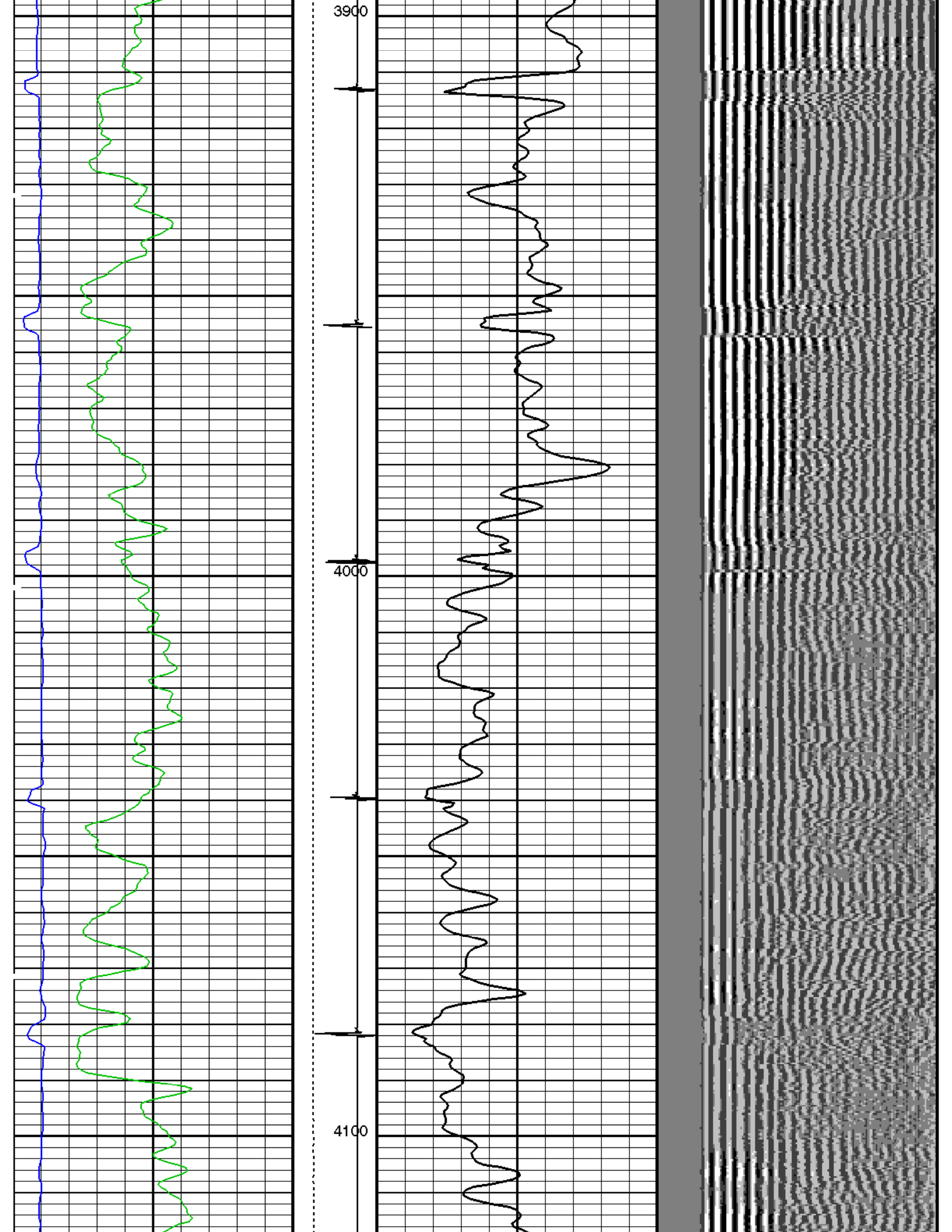
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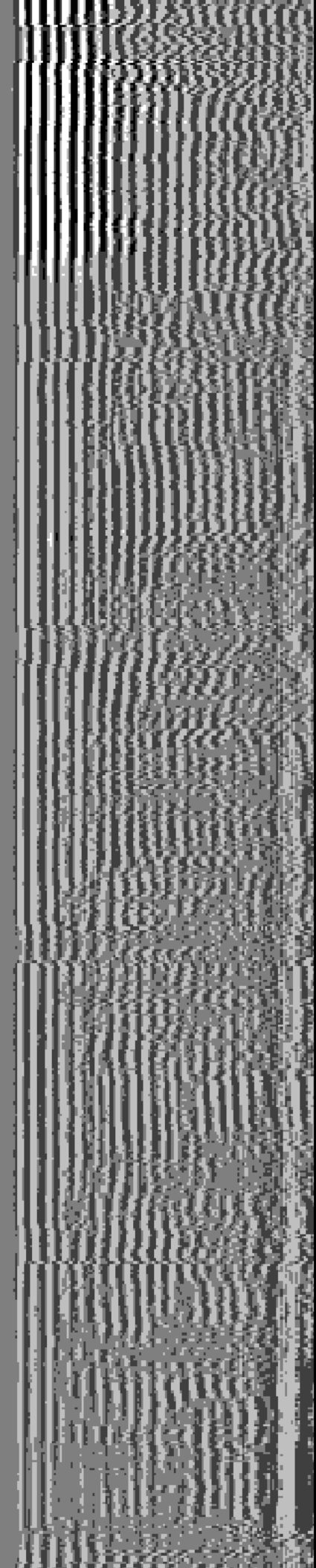
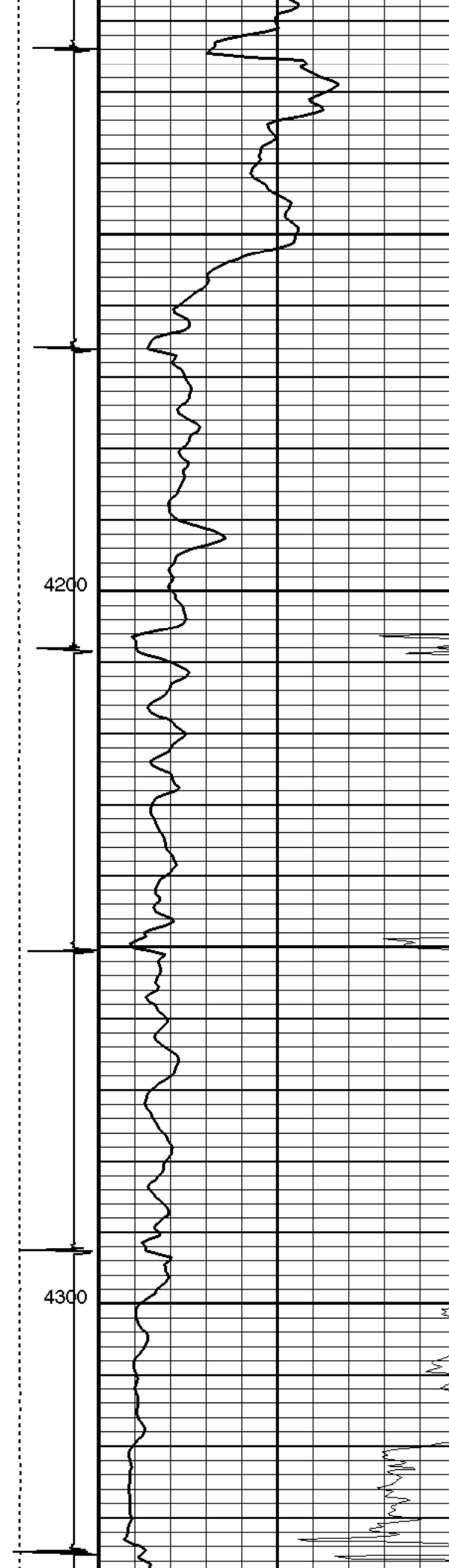
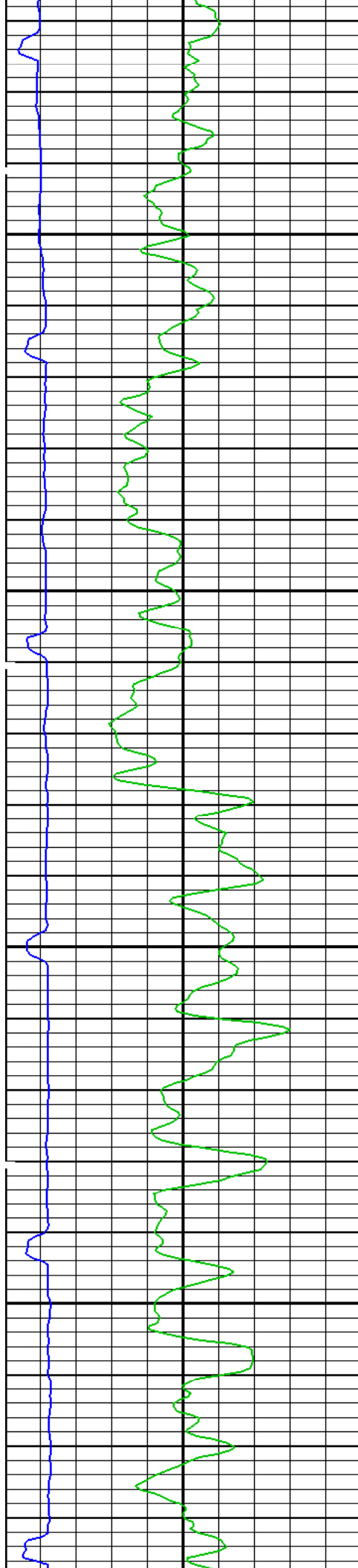
Time Mark Every 60 S

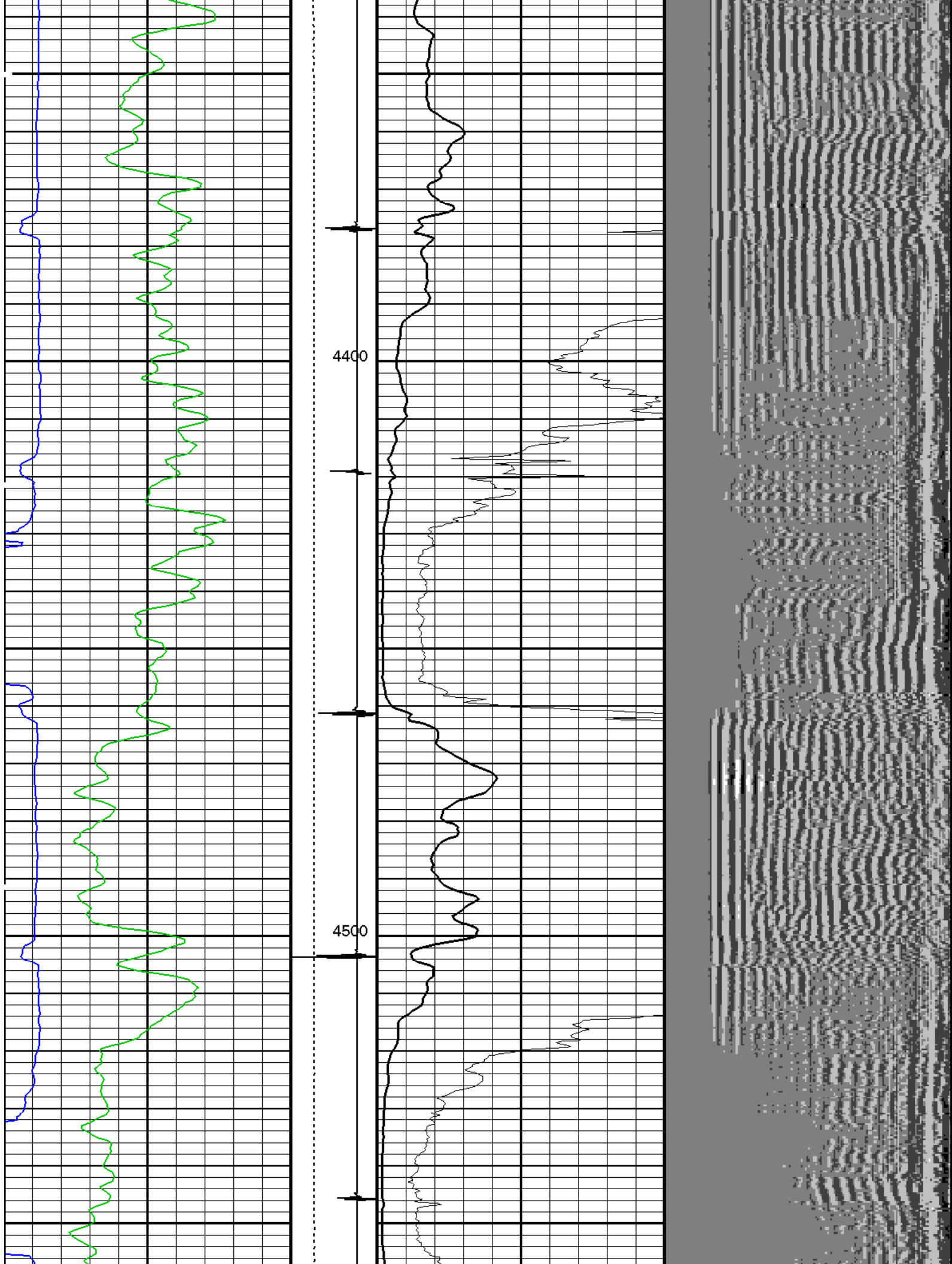
Transit Time (TT)		Discriminat ed CCL (CCLD)	CBL Amplitude (CBL)		<div>MinAmplitudeMax</div> <div>VDL VariableDensity (VDL) (US)</div>
260	(US) 160		0	(MV) 10	
		3 (V) -1			
Gamma Ray (GR)		Tension (TENS)	CBL Amplitude (CBL)		
0	(GAPI) 150	(LBF)	0	(MV) 100	
		0 2500			200 1200

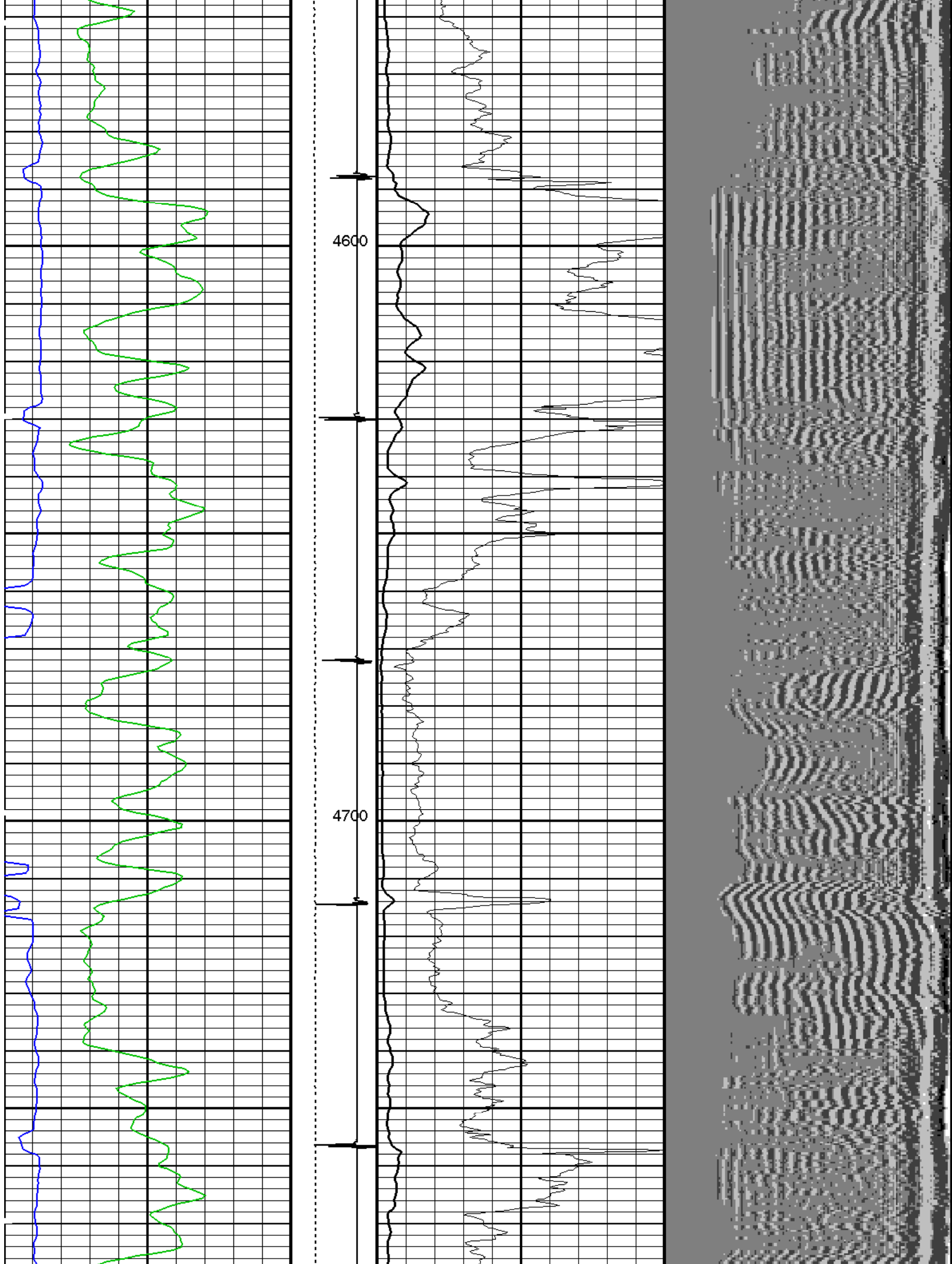


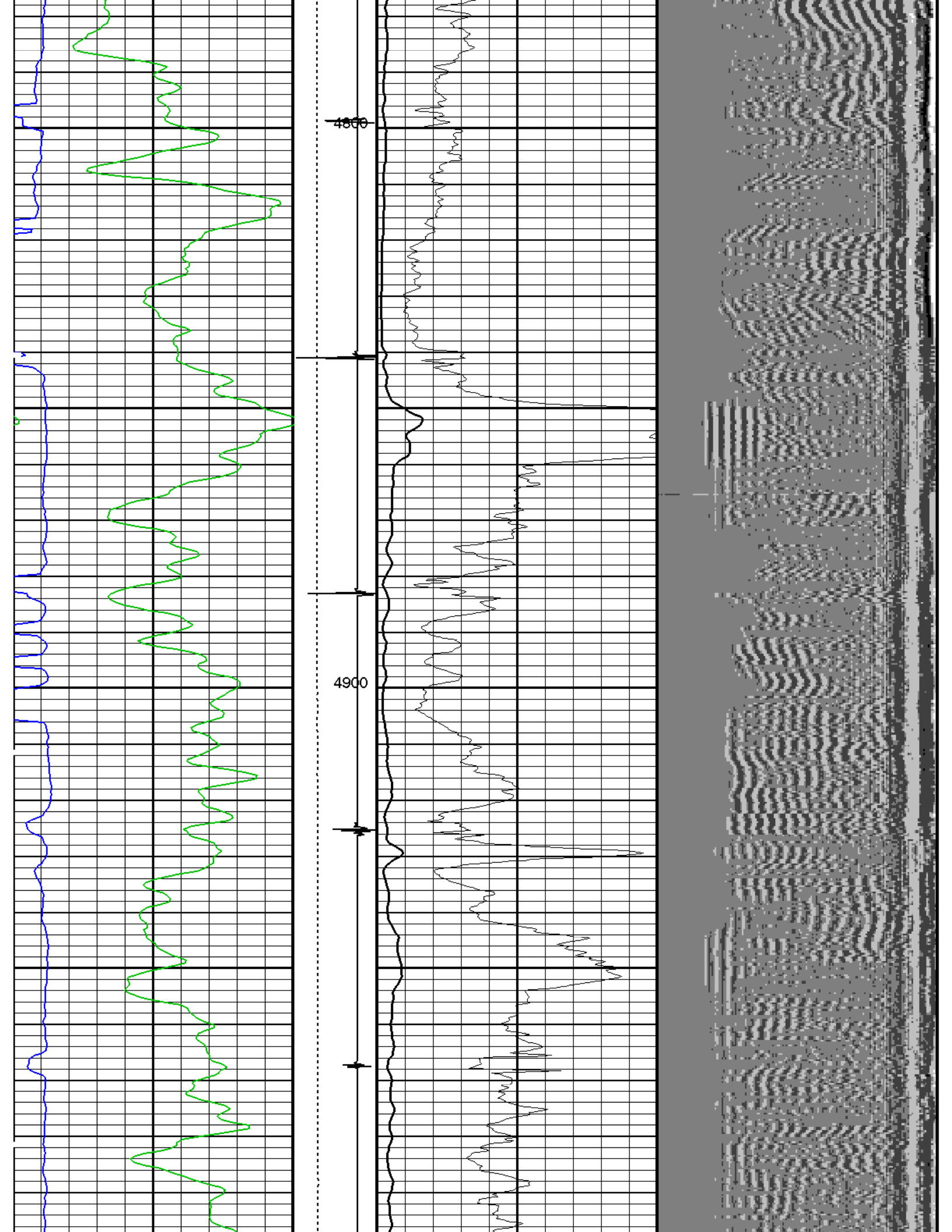


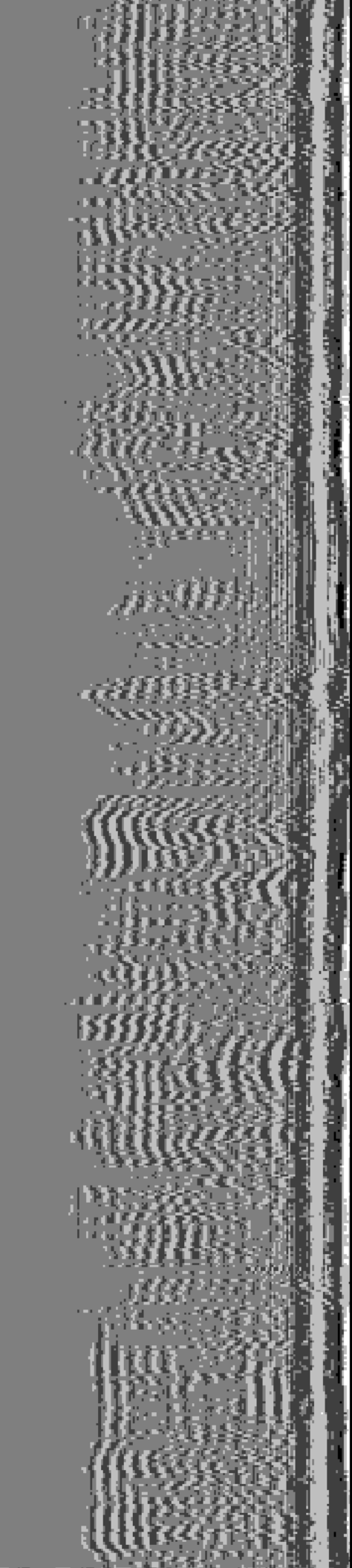
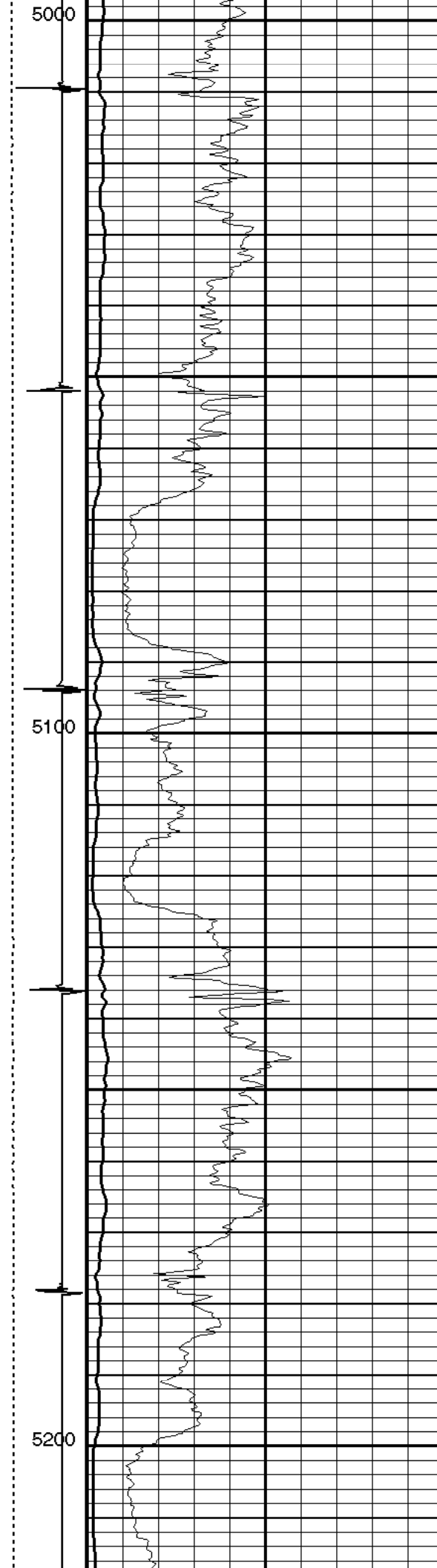
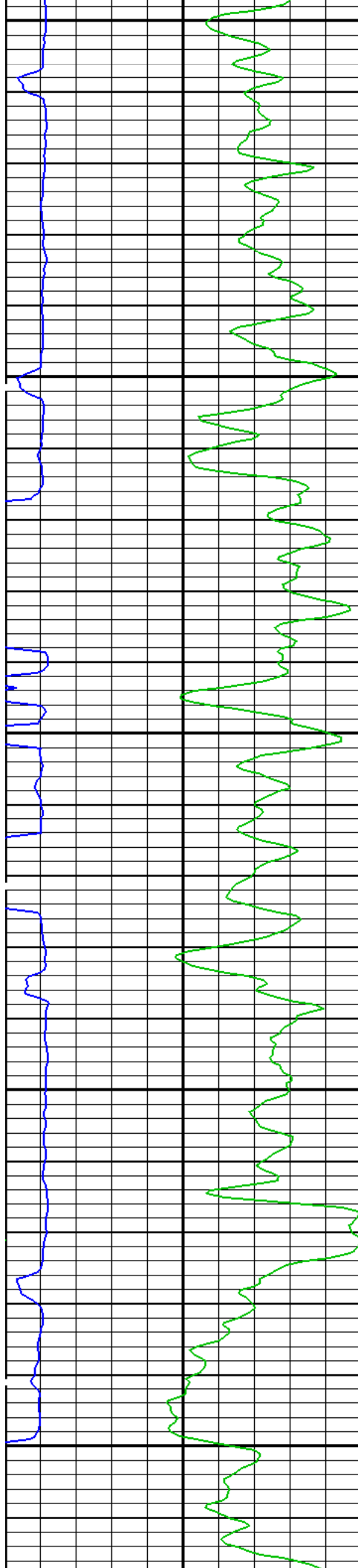


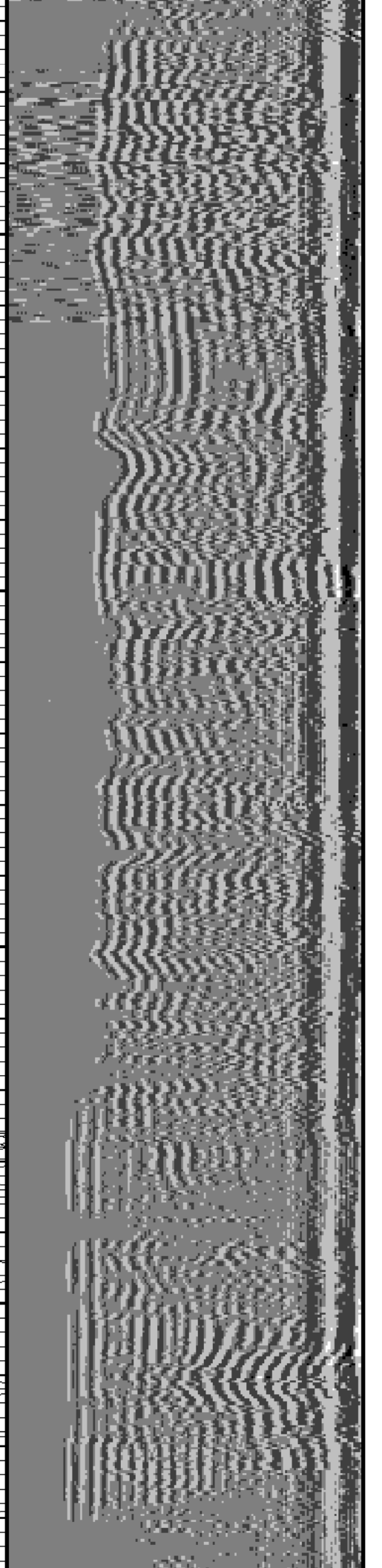
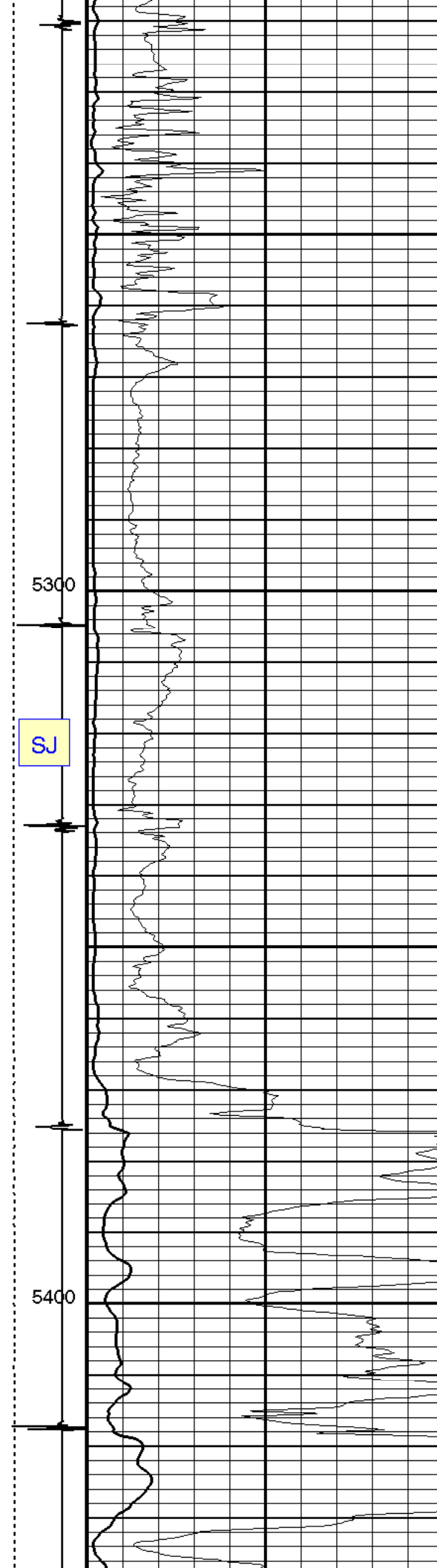
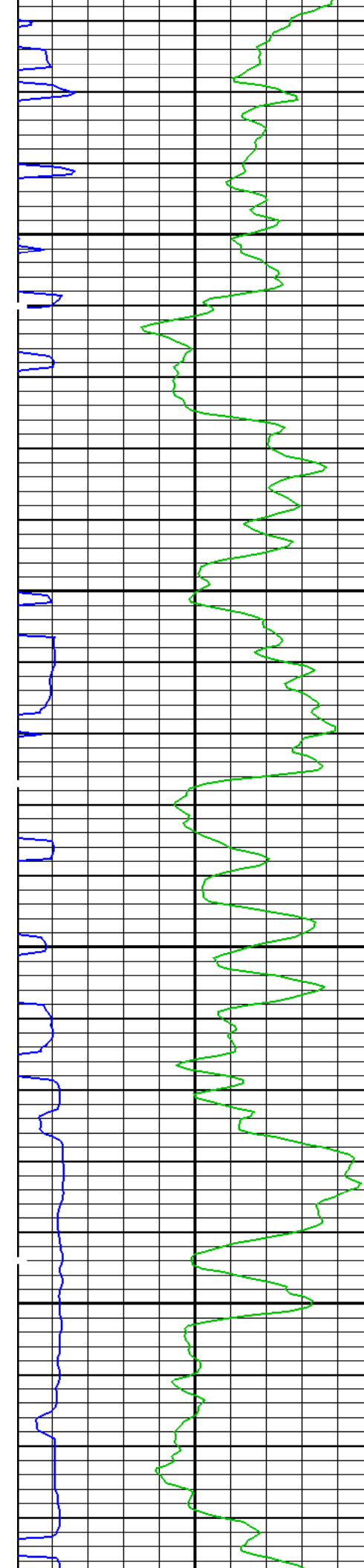


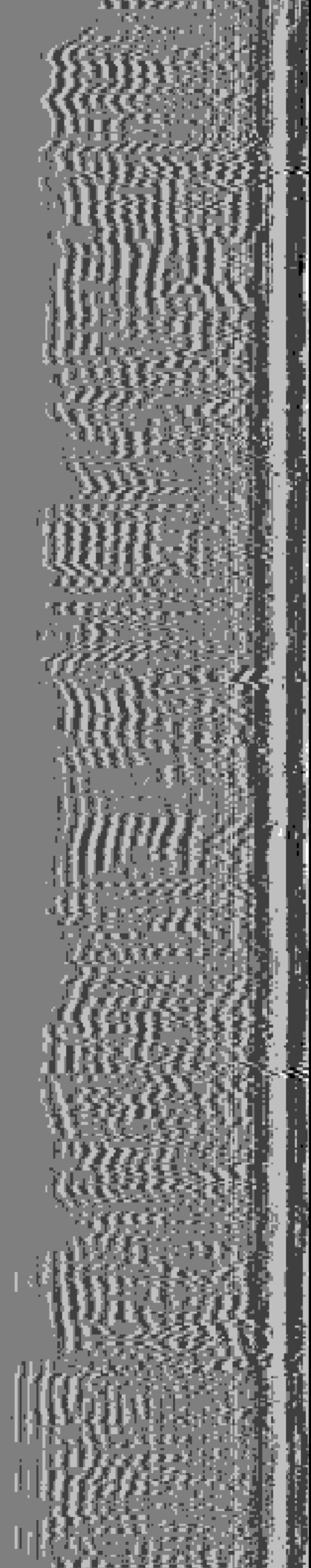
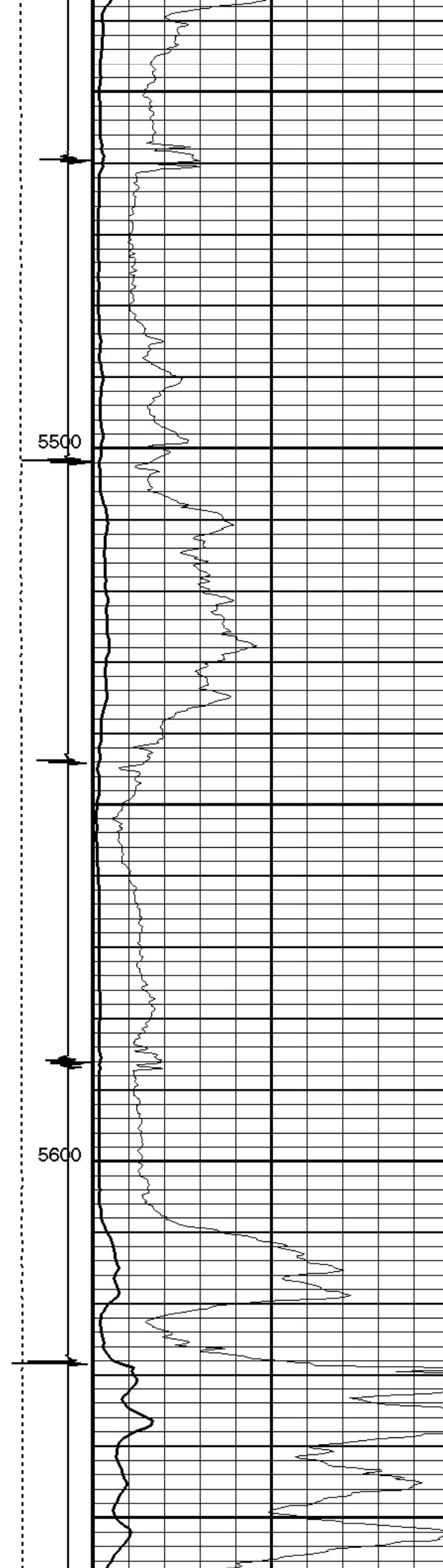
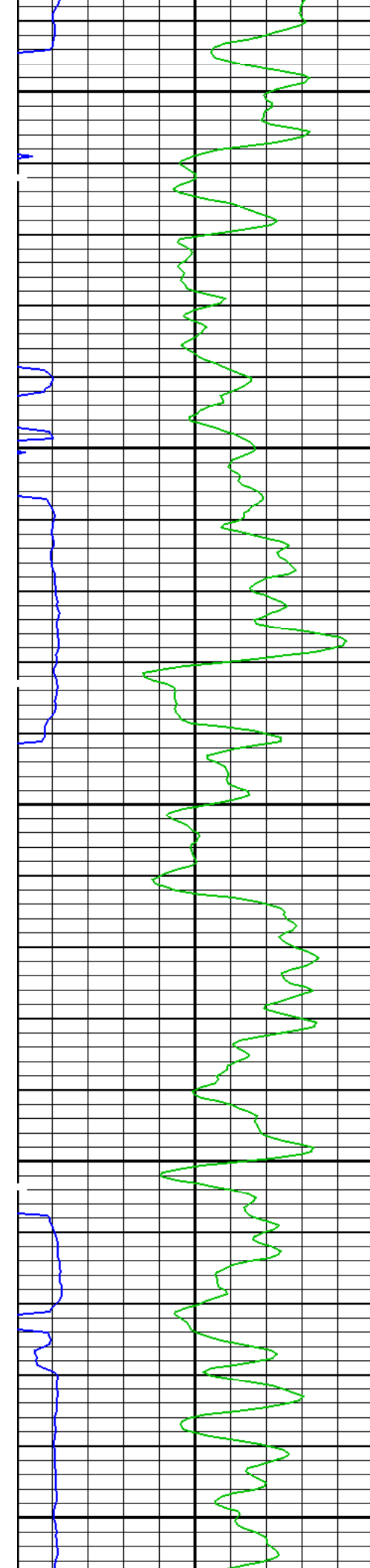


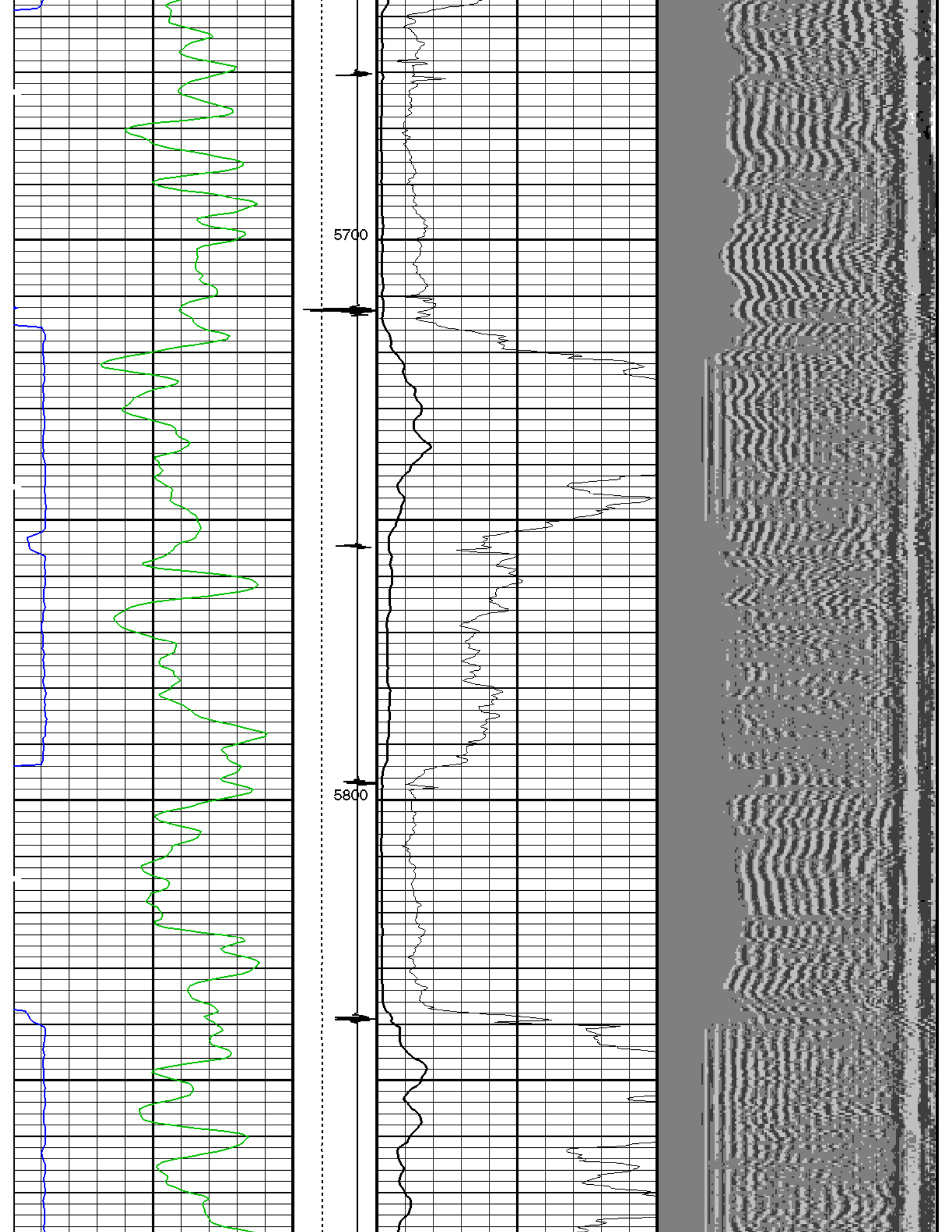


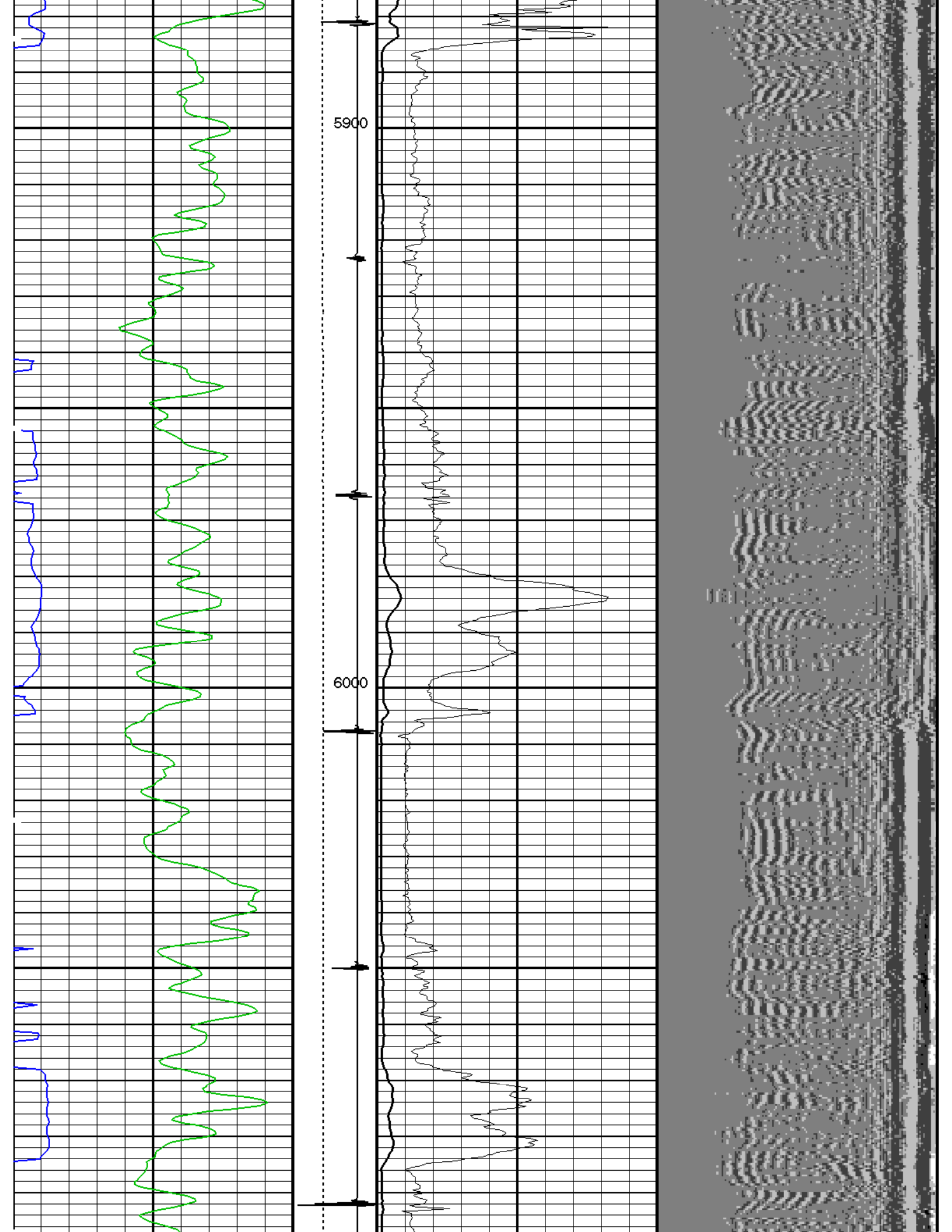


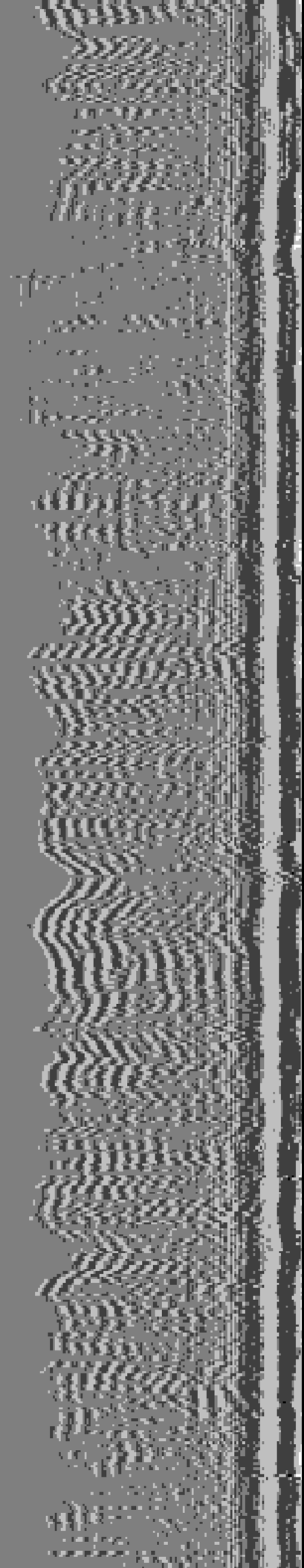
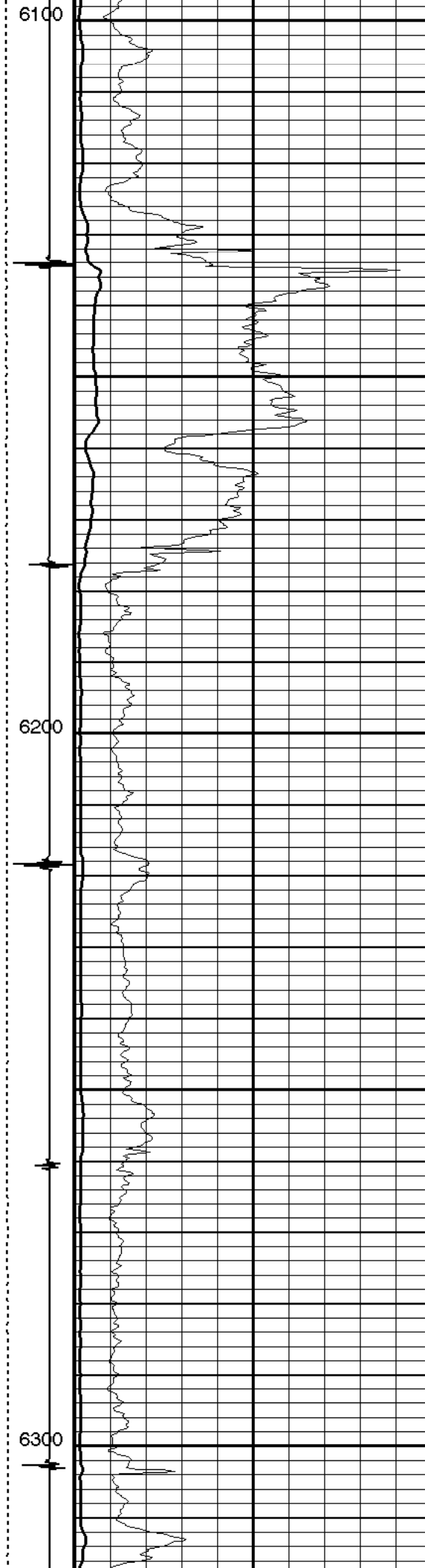
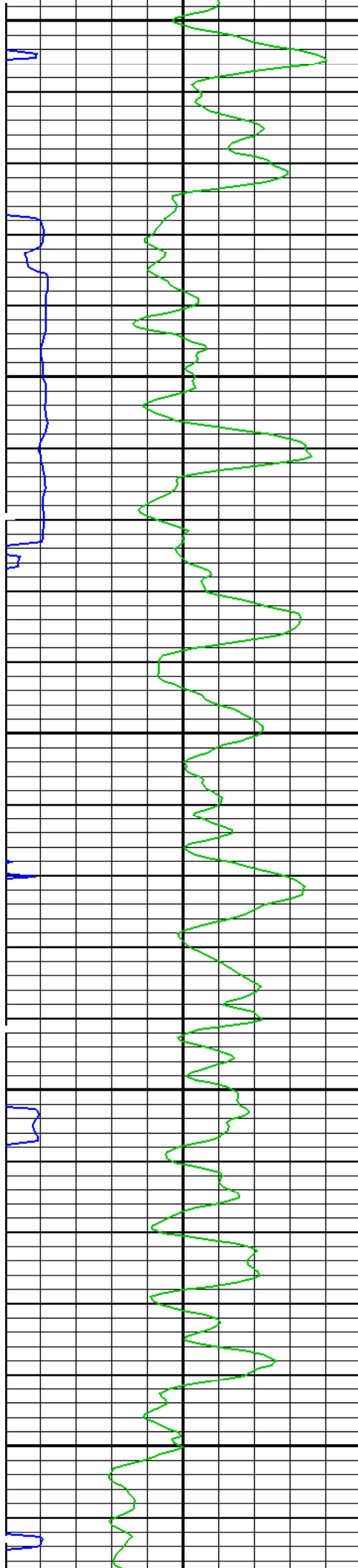


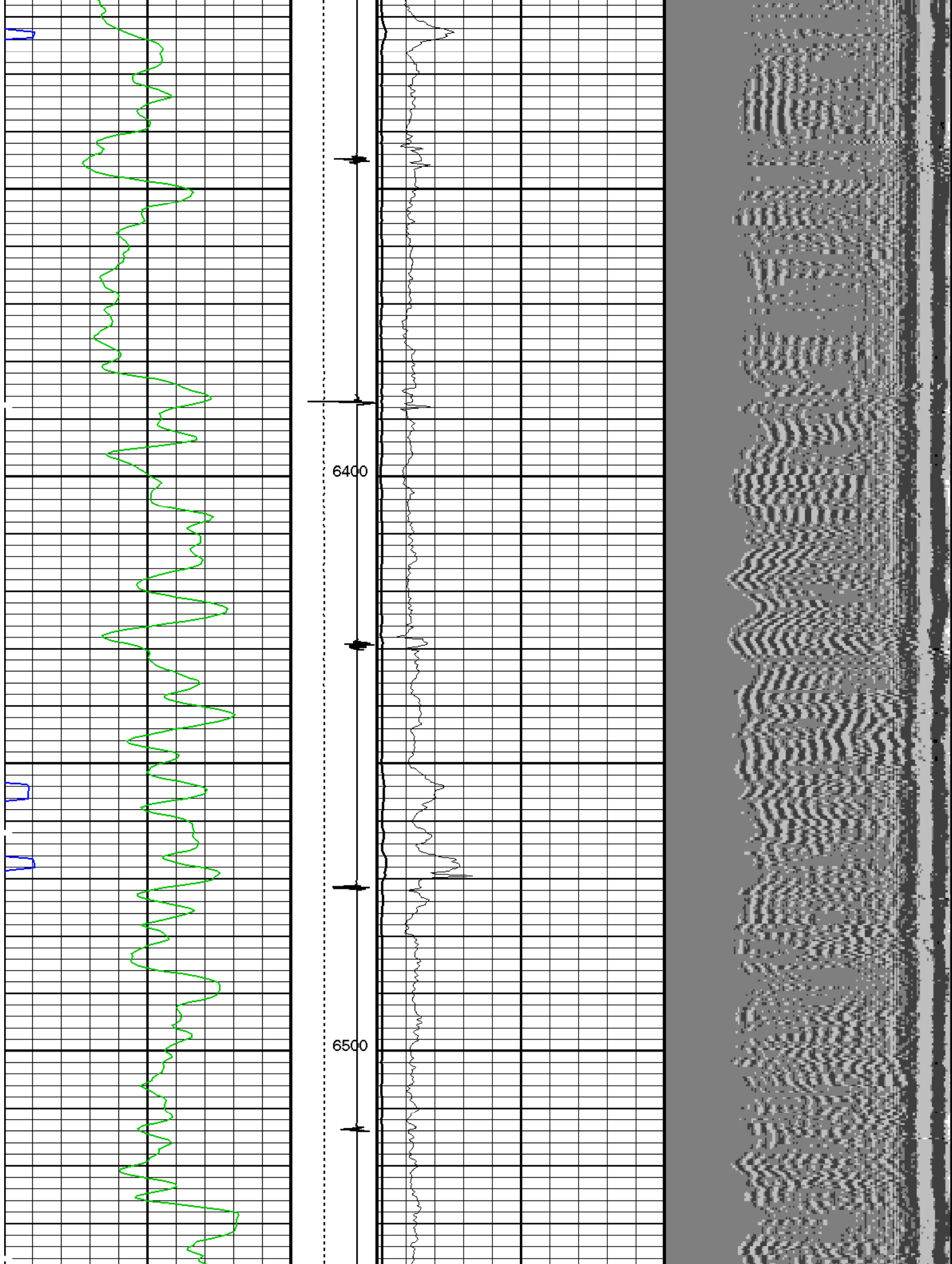


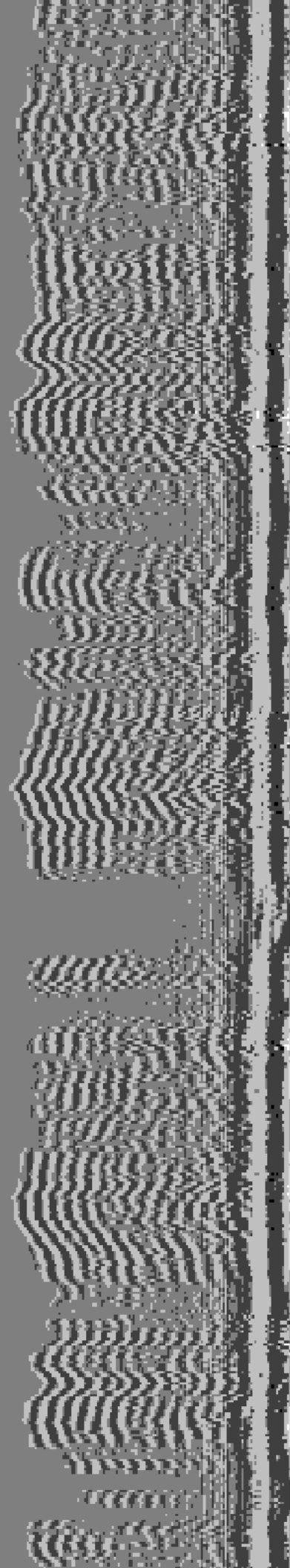
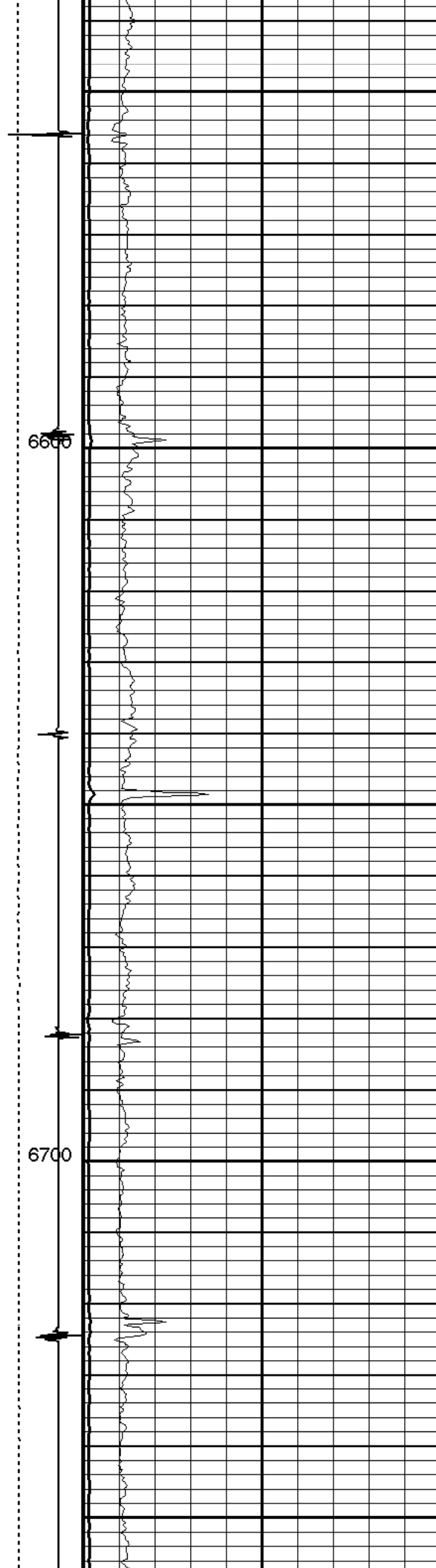
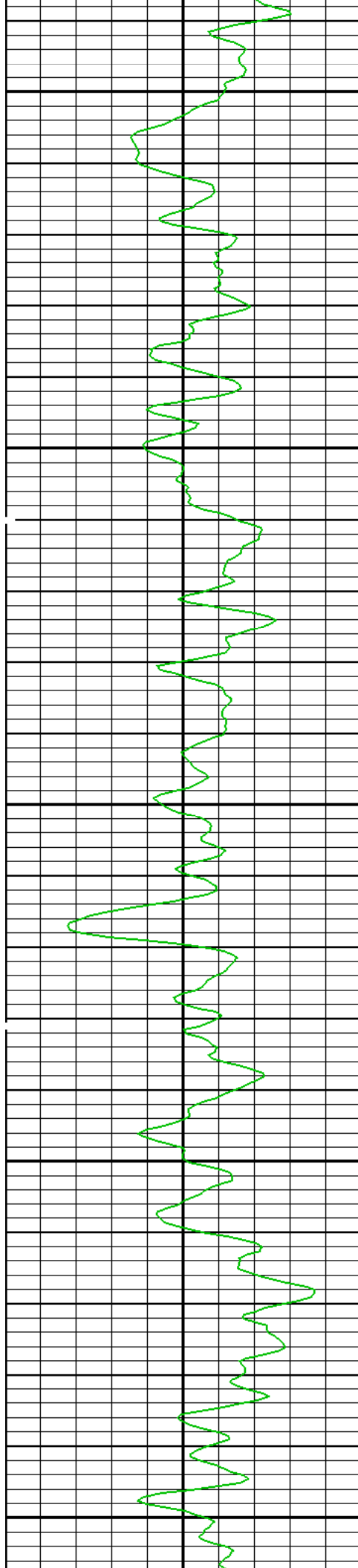


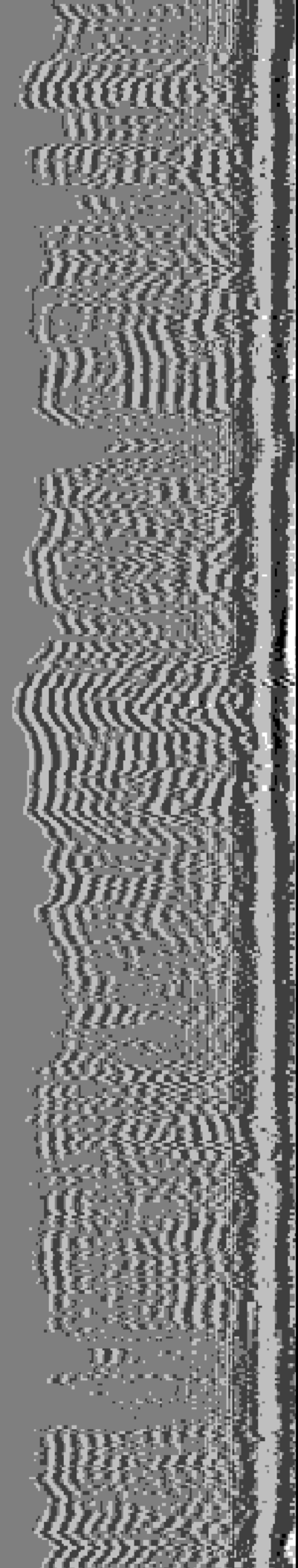
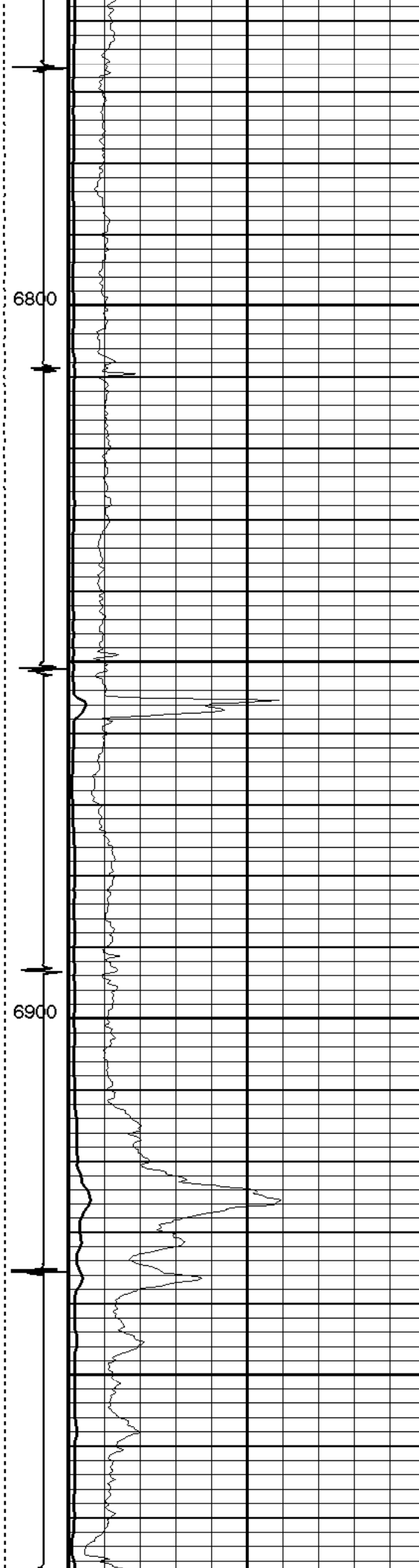
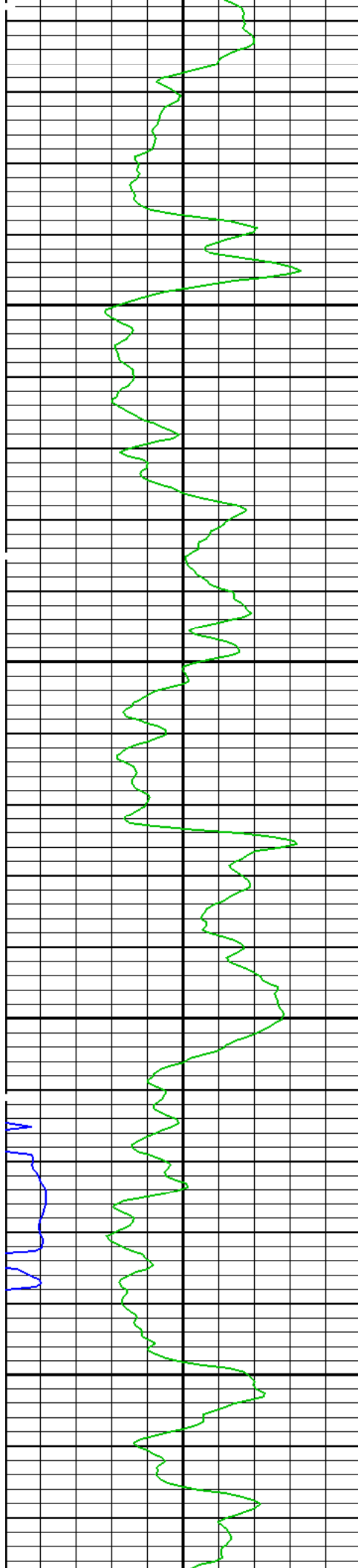


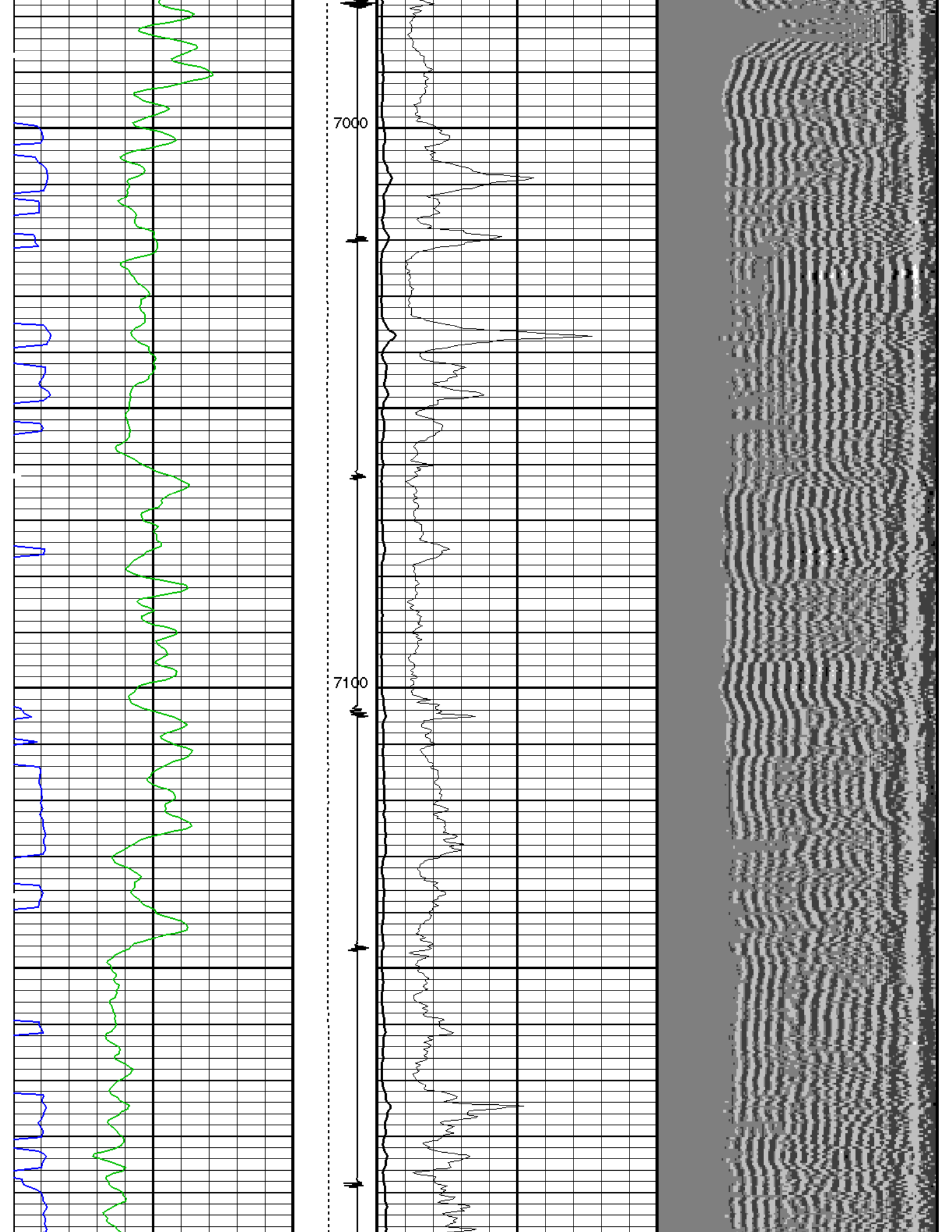


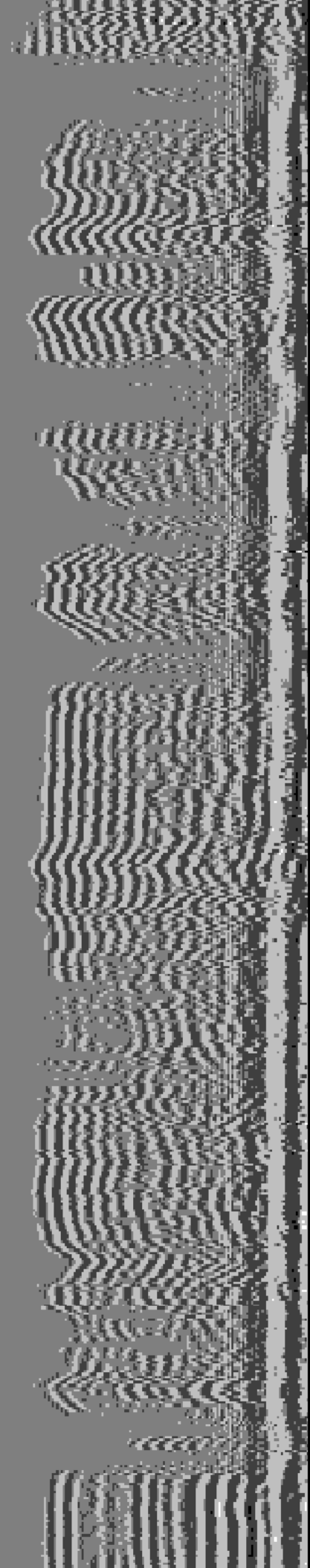
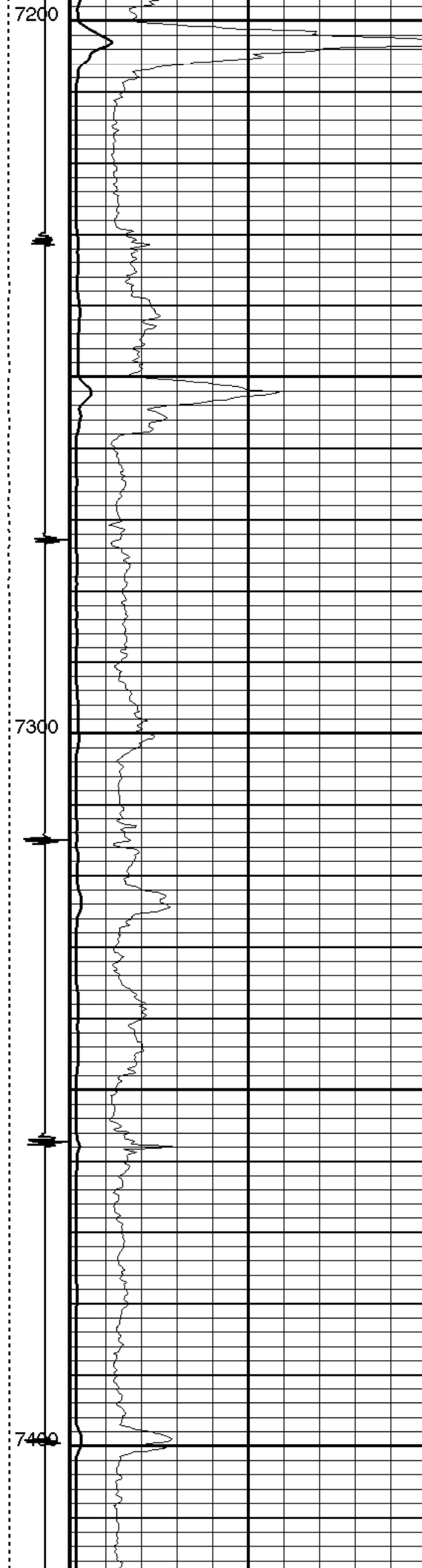
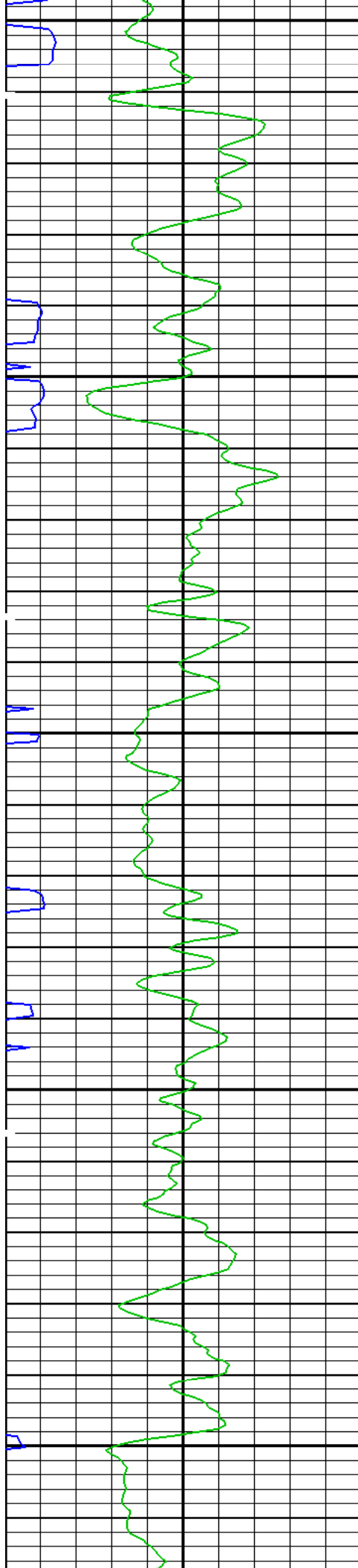


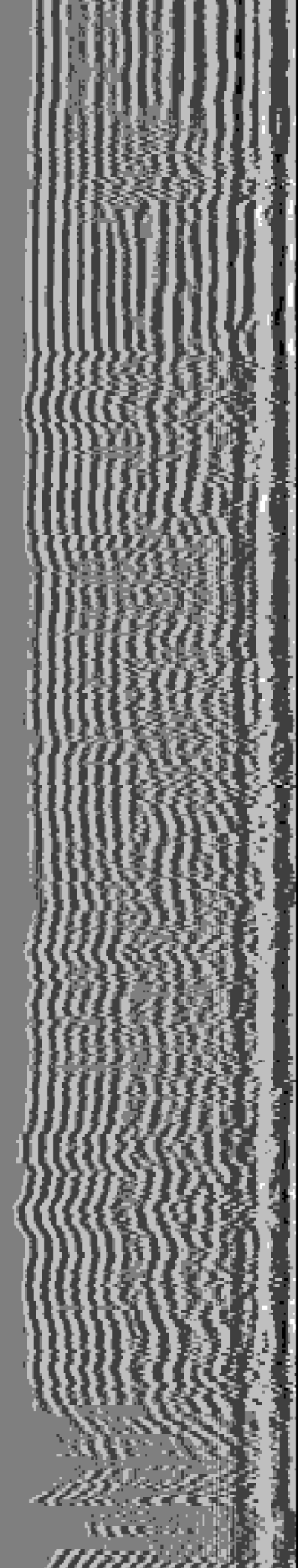
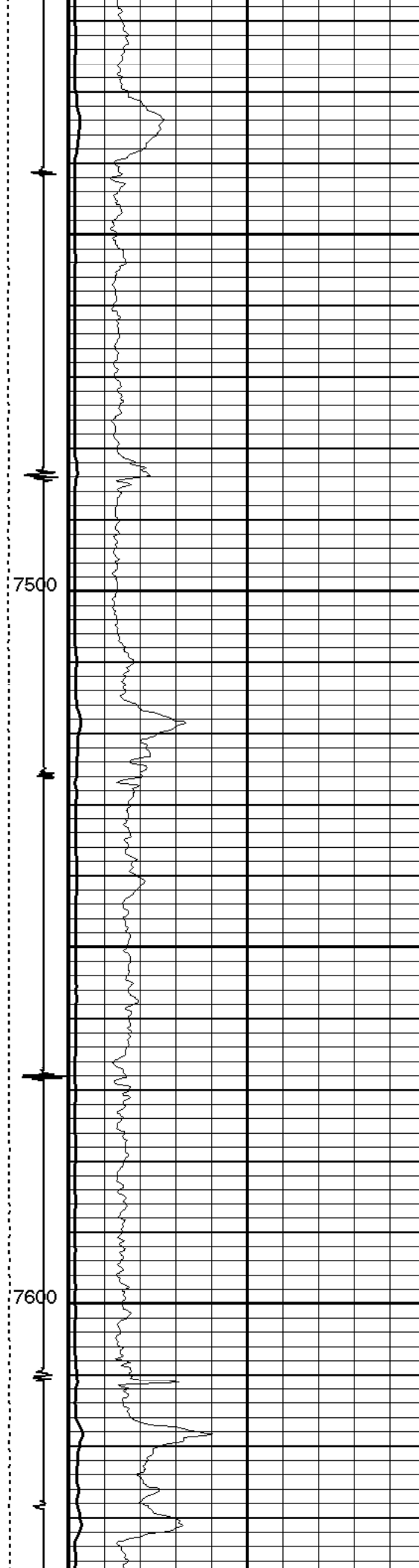
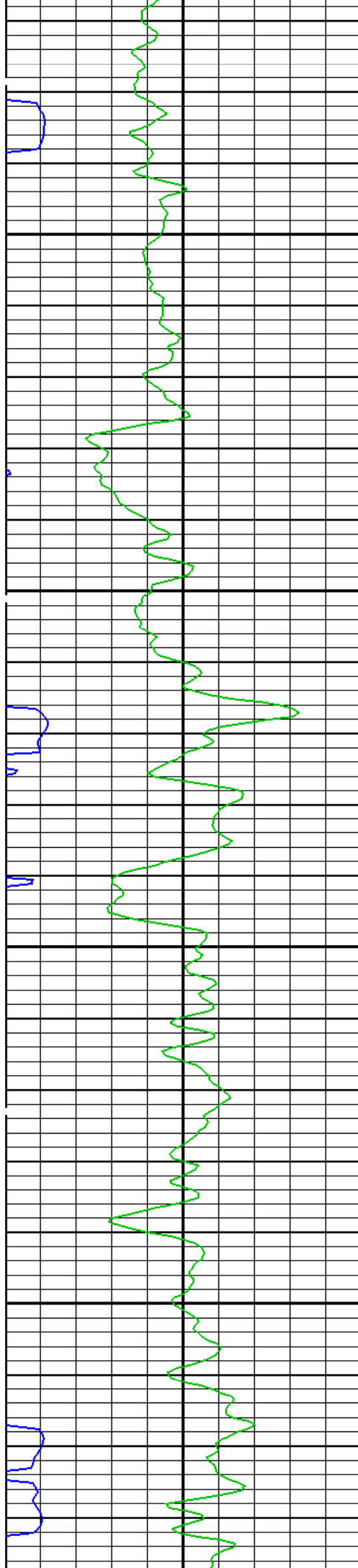


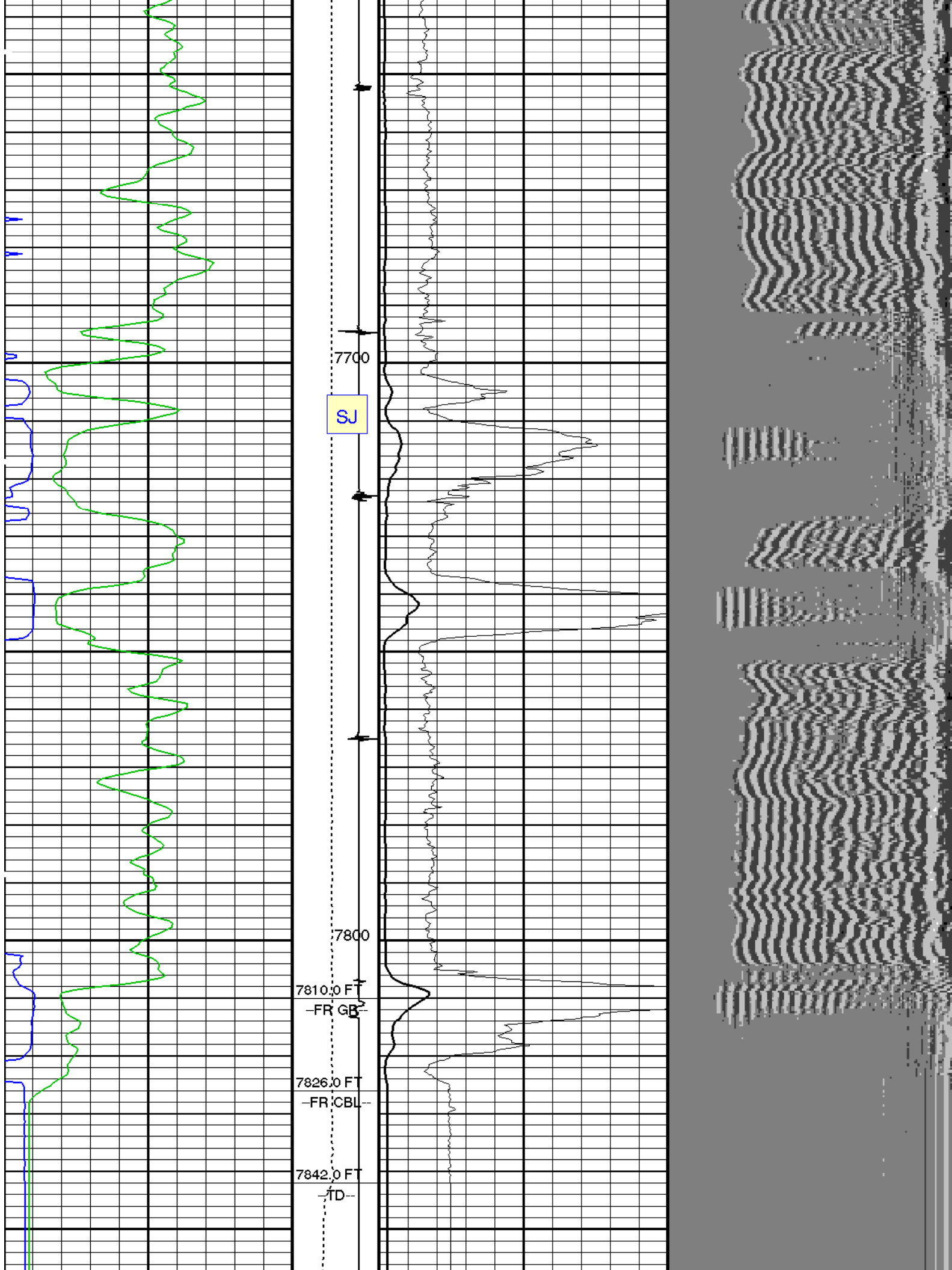













Gamma Ray (GR) (GAPI)		Tension (TENS) (LBF)	CBL Amplitude (CBL) (MV)		Min	Amplitude	Max
0	150	0 2500	0	100	200		1200
Transit Time (TT) (US)		Discriminat ed CCL (CCLD) (V) -1	CBL Amplitude (CBL) (MV)		VDL Variable Density (VDL) (US)		
260	160	3	0	10			

PIP SUMMARY							
Time Mark Every 60 S							
Format: CBL_VDL Vertical Scale: 5" per 100'				Graphics File Created: 04-May-2009 18:29			

OP System Version: 17C0-154							
SCMT-CB	17C0-154	PSPT-A/B		17C0-154			

<<<SCMT Cement Evaluation Information Summary>>>			
Sonde Serial Number	SCMS-CB 8300		
Current Casing Size	4.50000 IN		
Casing Weight	11.6000 LB/F		
Expected CBL Amplitude in Free Pipe Section	80 MV	Minimum Sonic Amplitude	0.572744 MV (100% Cement)
			1.53811 MV (80% Cement)
		MAP Minimum Sonic Amplitude	4.27504 MV (100% Cement)
			8.03067 MV (80% Cement)
Master Calibration (Normalization)		Before Calibration (Adjustment)	
Date of Master Calibration	9-DEC-2008		
CBL Correction Factor	0.0703984	CBL Adjustment Factor (CBAF)	1.0
MAP 1 Correction Factor	0.109118	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.136513		
MAP 3 Correction Factor	0.146790		
MAP 4 Correction Factor	0.118127		
MAP 5 Correction Factor	0.143335		
MAP 6 Correction Factor	0.107624		
MAP 7 Correction Factor	0.148522		
MAP 8 Correction Factor	0.134188		

Parameters			
DLIS Name	Description	Value	
SCMT-CB: Slim Cement Mapping Tool, 1-11/16 OD			
BILI	Bond Index Level for Zone Isolation	0.8	
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK	
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	235	US
CB3T	SCMT CBL 3 ft Fixed Threshold Level	20	MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	PEAK	
CB5G	SCMT CBL 5 ft Peak Detection T0_Delay and Noise Gate	348	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	40	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	80	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTc	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.255617	IN
DTF	Delta-T Fluid	204.5	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	1	
GOBO	Good Bond	1.53811	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	176	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV

MATT	Maximum Attenuation	16.5449	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	1.25	FT
MMSA	MAP Minimum Sonic Amplitude	4.27504	MV
MSA	Minimum Sonic Amplitude	0.572744	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
System and Miscellaneous			
CWEI	Casing Weight	11.60	LB/F
DO	Depth Offset for Playback	1.0	FT
PP	Playback Processing	NORMAL	
TD	Total Depth	7842	FT

Input DLIS Files						
DEFAULT	SCMT_PSP_038LUP	FN:33	PRODUCER	04-May-2009 17:24	7857.5 FT	3452.7 FT
Output DLIS Files						
DEFAULT	SCMT_PSP_039PUP	FN:34	PRODUCER	04-May-2009 18:29		

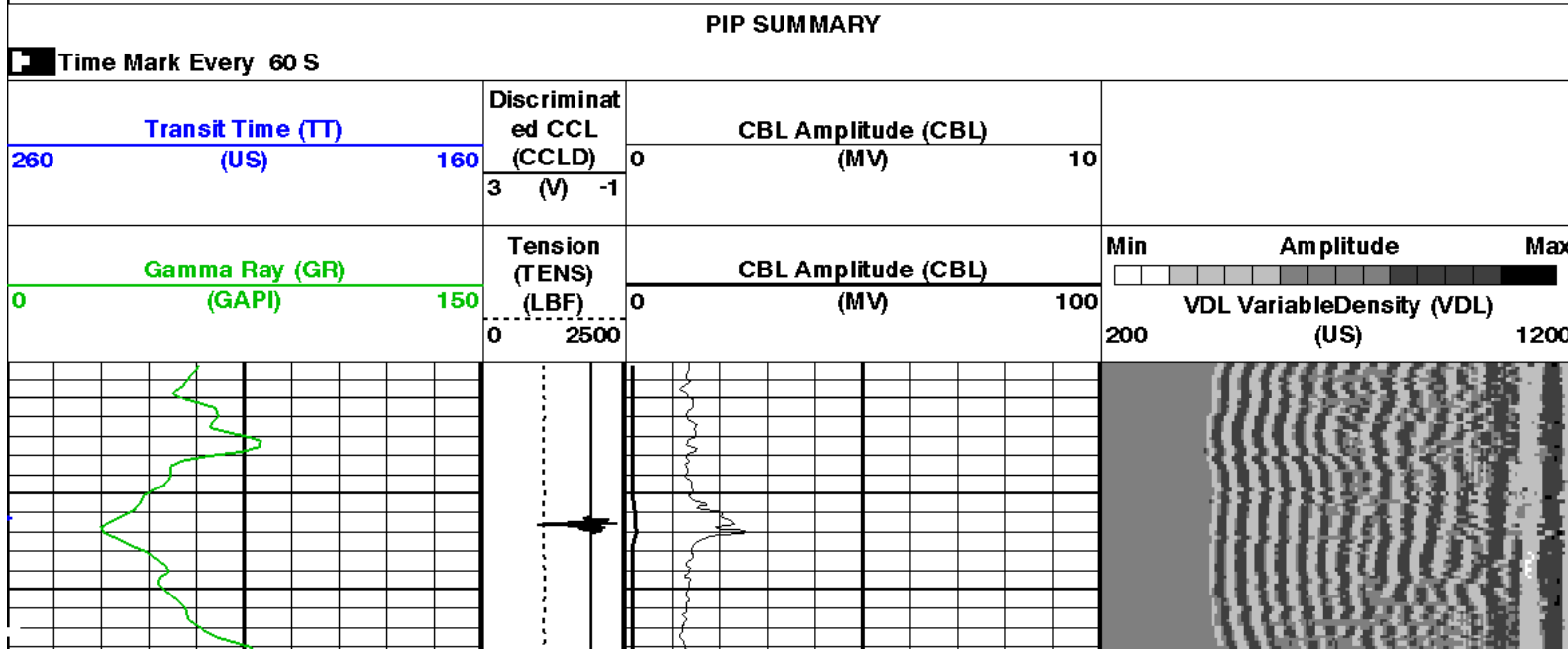
Schlumberger

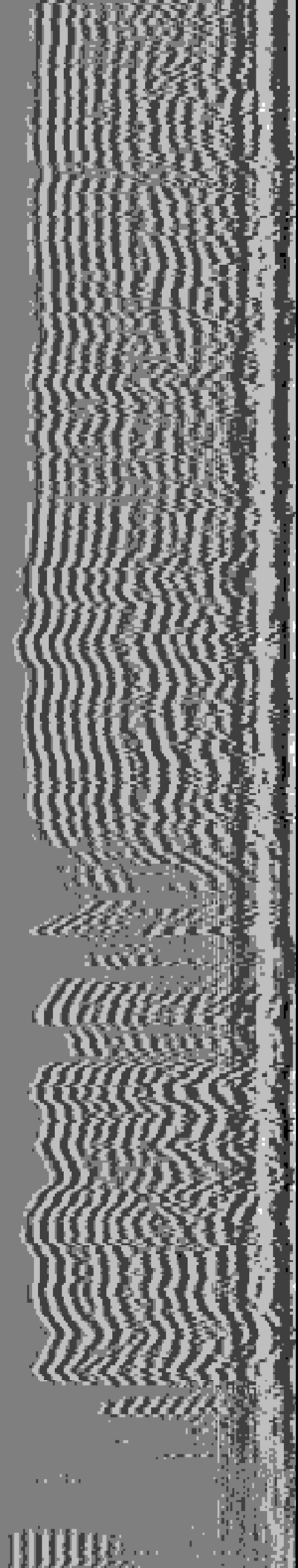
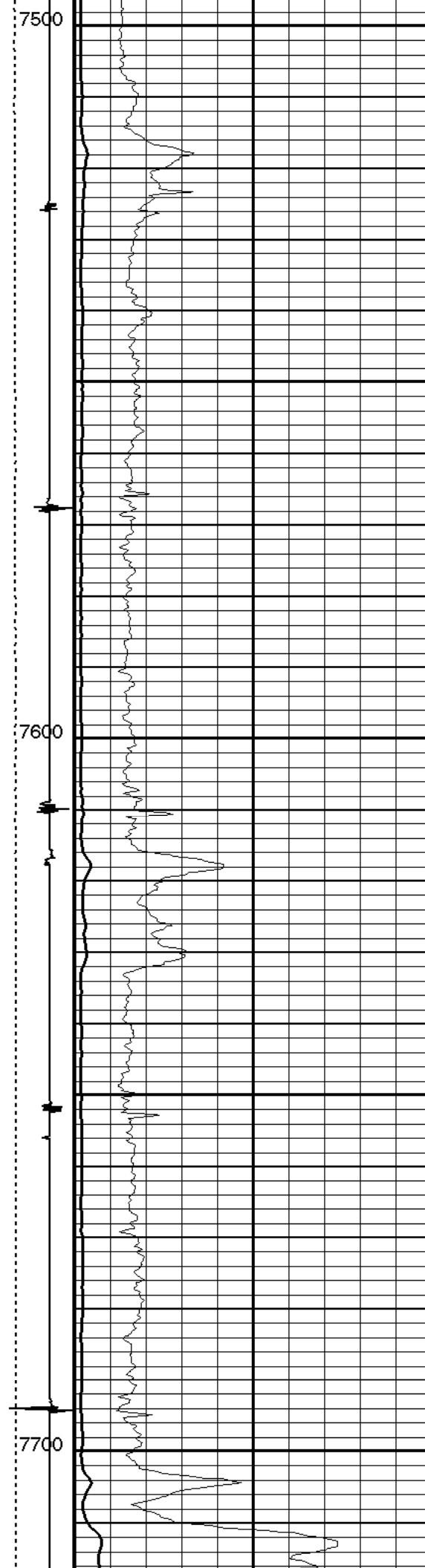
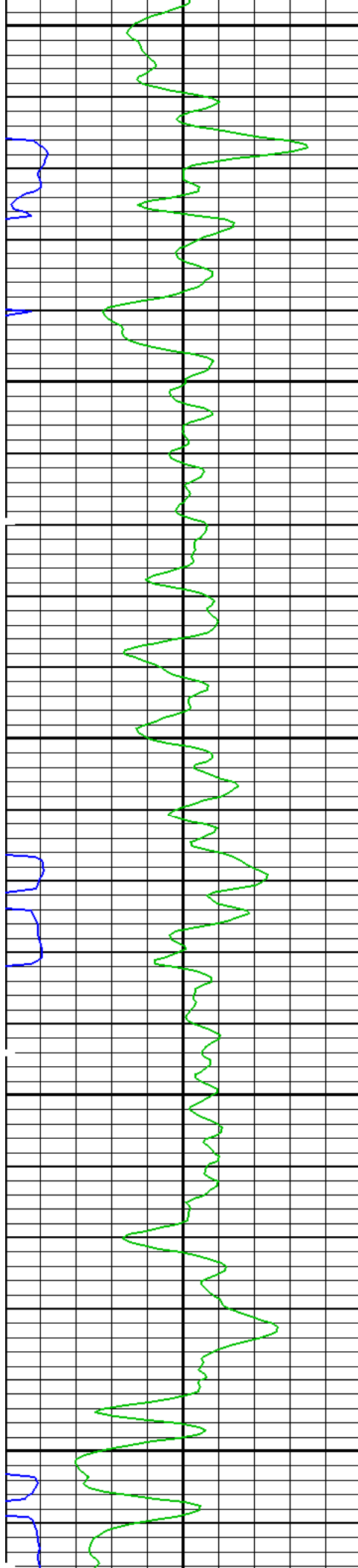
REPEAT PASS 0 PSI

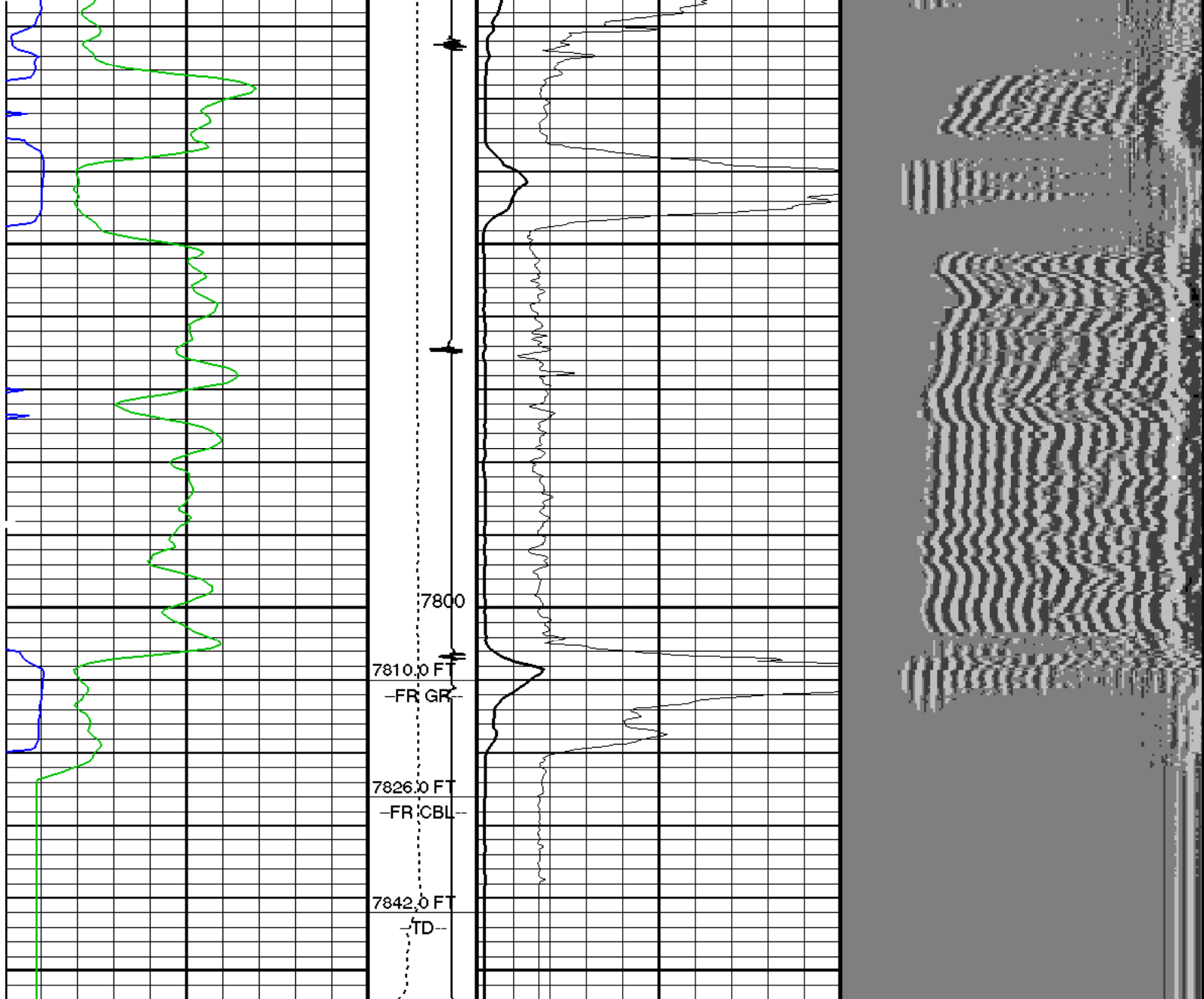
MAXIS Field Log

Company: BILL BARRETT CORPORATION				Well: JOLLEY 31 D-21-691		
Input DLIS Files						
DEFAULT	SCMT_PSP_035LUP	FN:30	PRODUCER	04-May-2009 17:15	7852.5 FT	7464.5 FT
Output DLIS Files						
DEFAULT	SCMT_PSP_037PUP	FN:32	PRODUCER	04-May-2009 17:23	7854.0 FT	7466.0 FT

OP System Version: 17C0-154						
SCMT-CB	17C0-154		PSPT-A/B		17C0-154	







Gamma Ray (GR) (GAPI)	Tension (TENS) (LBF)	CBL Amplitude (CBL) (MV)	Amplitude Min Max VDL VariableDensity (VDL) (US)
Transit Time (TT) (US)	Discriminat ed CCL (CCLD) (V)	CBL Amplitude (CBL) (MV)	

PIP SUMMARY

Time Mark Every 60 S

Format: CBL_VDL Vertical Scale: 5" per 100'

Graphics File Created: 04-May-2009 17:23

OP System Version: 17C0-154

SCMT-CB 17C0-154 PSPT-A/B 17C0-154

<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number SCMS-CB 8300
 Current Casing Size 4.50000 IN
 Casing Weight 11.6000 LB/F

Expected CBL Amplitude	80 MV	Minimum Sonic Amplitude	0.572744 MV (100% Cement)
in Free Pipe Section			1.53811 MV (80% Cement)
		MAP Minimum Sonic Amplitude	4.27504 MV (100% Cement)
			8.03067 MV (80% Cement)

Master Calibration (Normalization)

Date of Master Calibration	9-DEC-2008
CBL Correction Factor	0.0703984
MAP 1 Correction Factor	0.109118
MAP 2 Correction Factor	0.136513
MAP 3 Correction Factor	0.146790
MAP 4 Correction Factor	0.118127
MAP 5 Correction Factor	0.143335
MAP 6 Correction Factor	0.107624
MAP 7 Correction Factor	0.148522
MAP 8 Correction Factor	0.134188

Before Calibration (Adjustment)

CBL Adjustment Factor (CBAF)	1.0
MAP Adjustment Factor (MPAF)	1.0

Parameters

DLIS Name	Description	Value	
SCMT-CB: Slim Cement Mapping Tool, 1-11/16 OD			
BILI	Bond Index Level for Zone Isolation	0.8	
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK	
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	235	US
CB3T	SCMT CBL 3 ft Fixed Threshold Level	20	MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	PEAK	
CB5G	SCMT CBL 5 ft Peak Detection T0_Delay and Noise Gate	348	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	40	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	80	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTc	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.255617	IN
DTF	Delta-T Fluid	204.5	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	1	
GOBO	Good Bond	1.53811	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	176	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	16.5449	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	1.25	FT
MMSA	MAP Minimum Sonic Amplitude	4.27504	MV
MSA	Minimum Sonic Amplitude	0.572744	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
System and Miscellaneous			
CWEI	Casing Weight	11.60	LB/F
DO	Depth Offset for Playback	1.5	FT
PP	Playback Processing	NORMAL	
TD	Total Depth	7842	FT

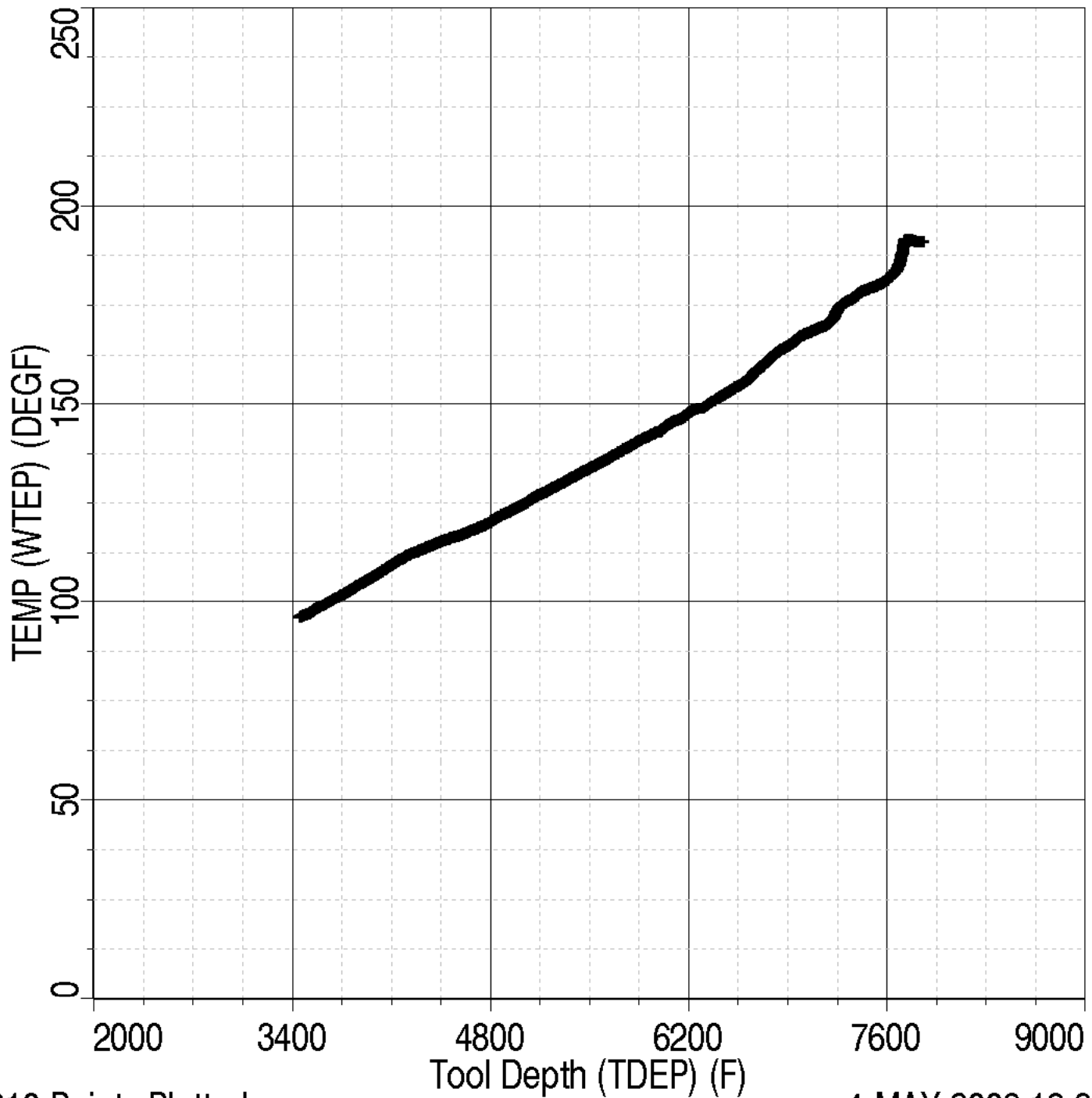
Input DLIS Files

DEFAULT	SCMT_PSP_035LUP	FN:30	PRODUCER	04-May-2009 17:15	7852.5 FT	7464.5 FT
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Output DLIS Files

DEFAULT	SCMT_PSP_037PUP	FN:32	PRODUCER	04-May-2009 17:23
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Index: 7858.5 - 3454.0 FT



8810 Points Plotted

4-MAY-2009 18:31

Schlumberger**TEMPERATURE LOG**

Input DLIS Files

DEFAULT

SCMT_PSP_038LUP

FN:33

PRODUCER

04-May-2009 17:24

7857.5 FT

3452.7 FT

Output DLIS Files

DEFAULT

SCMT_PSP_039PUP

FN:34

PRODUCER

04-May-2009 18:29

7858.5 FT

3454.0 FT

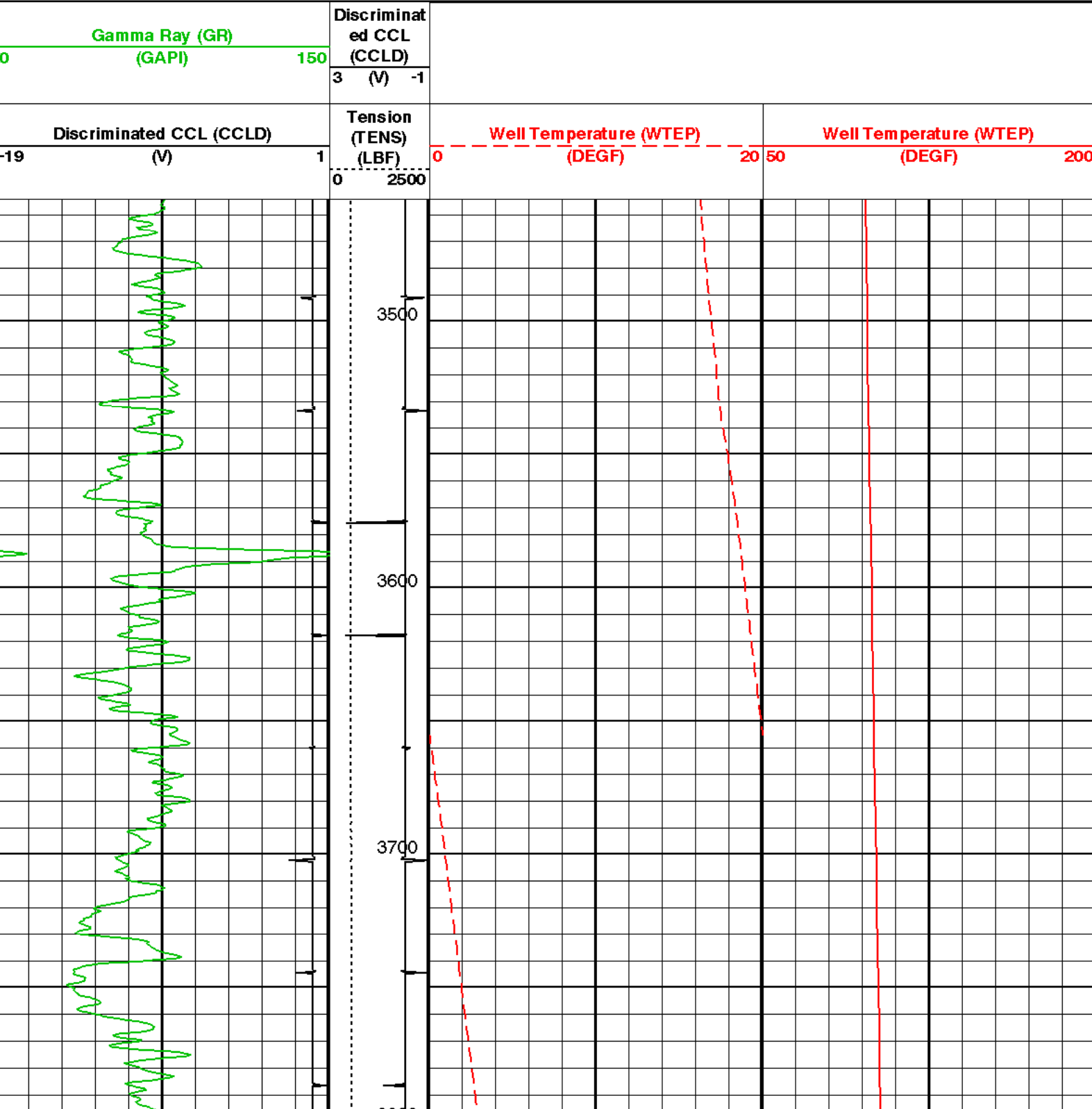
OP System Version: 17C0-154

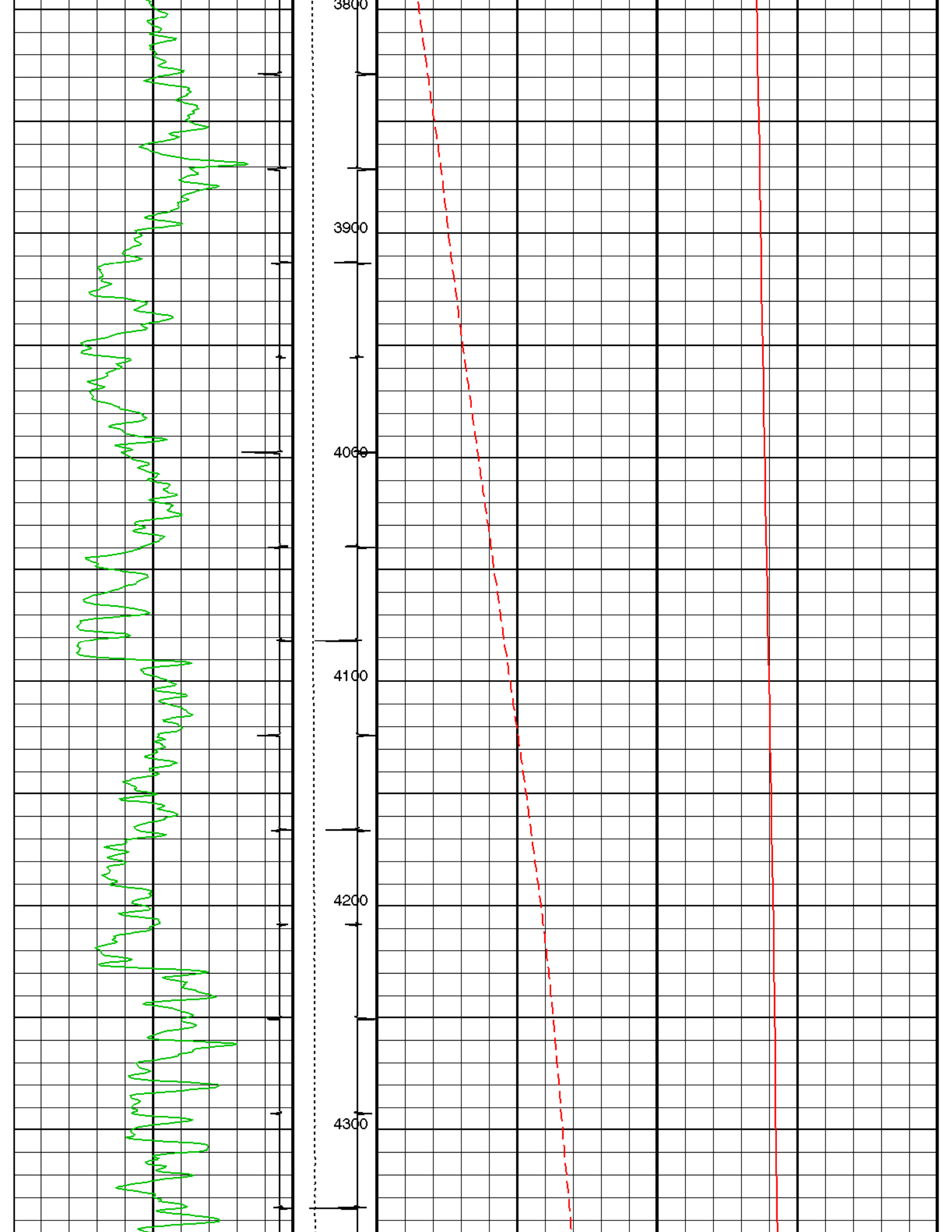
SCMT-CB

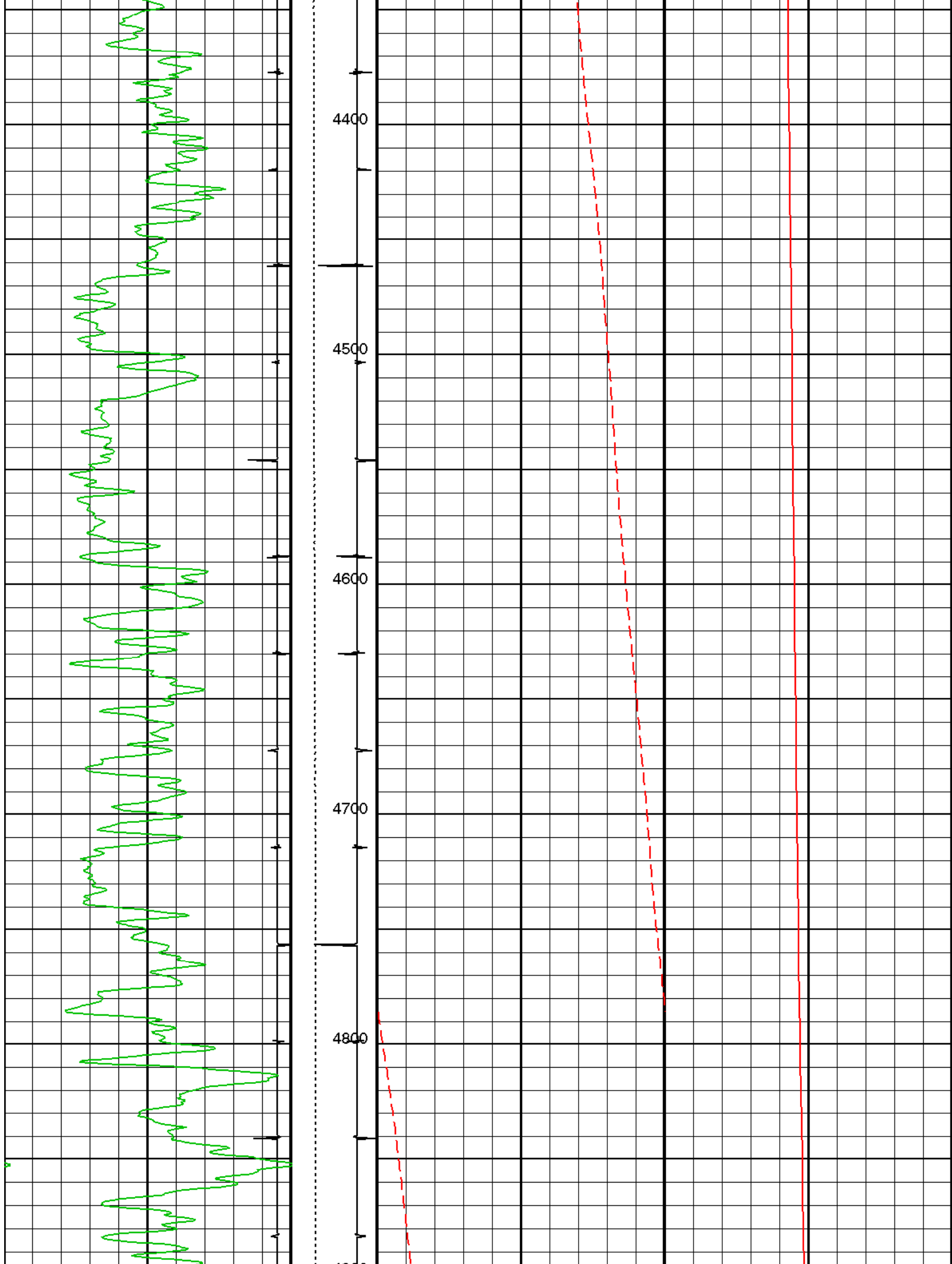
17C0-154

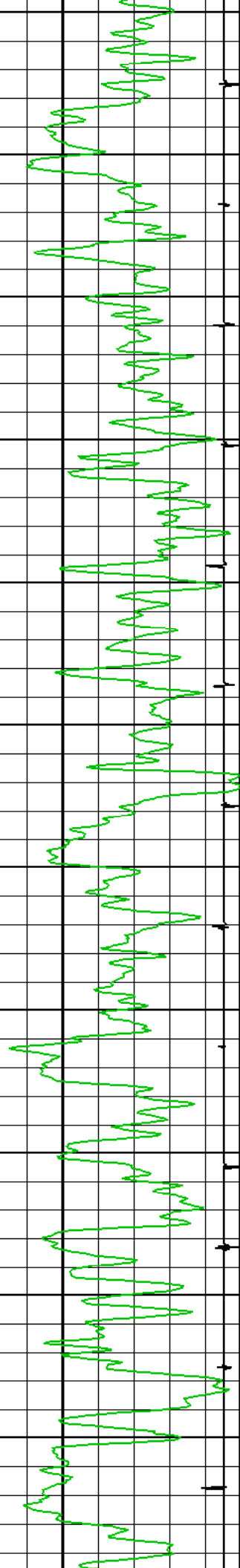
PSPT-A/B

17C0-154

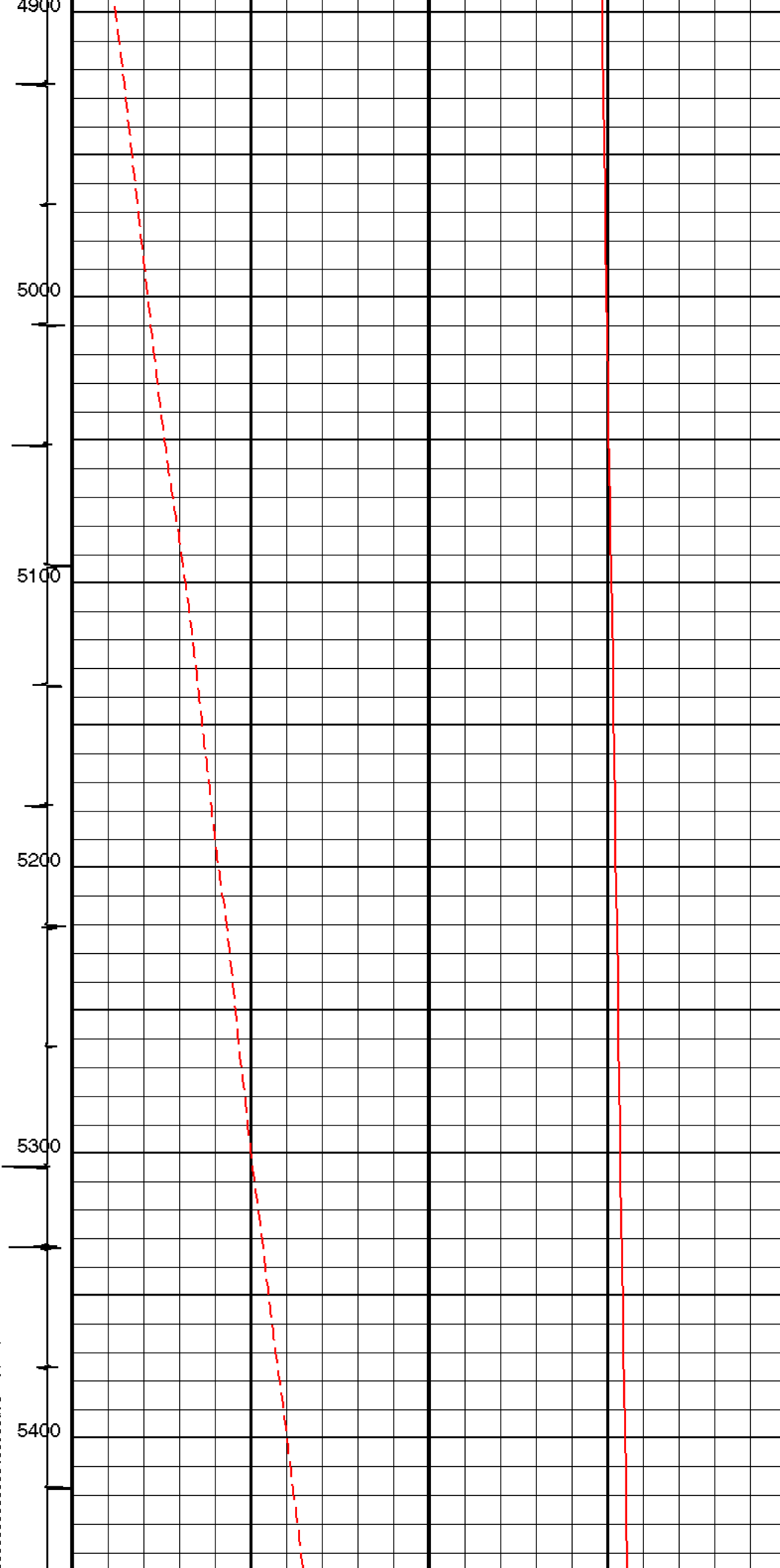


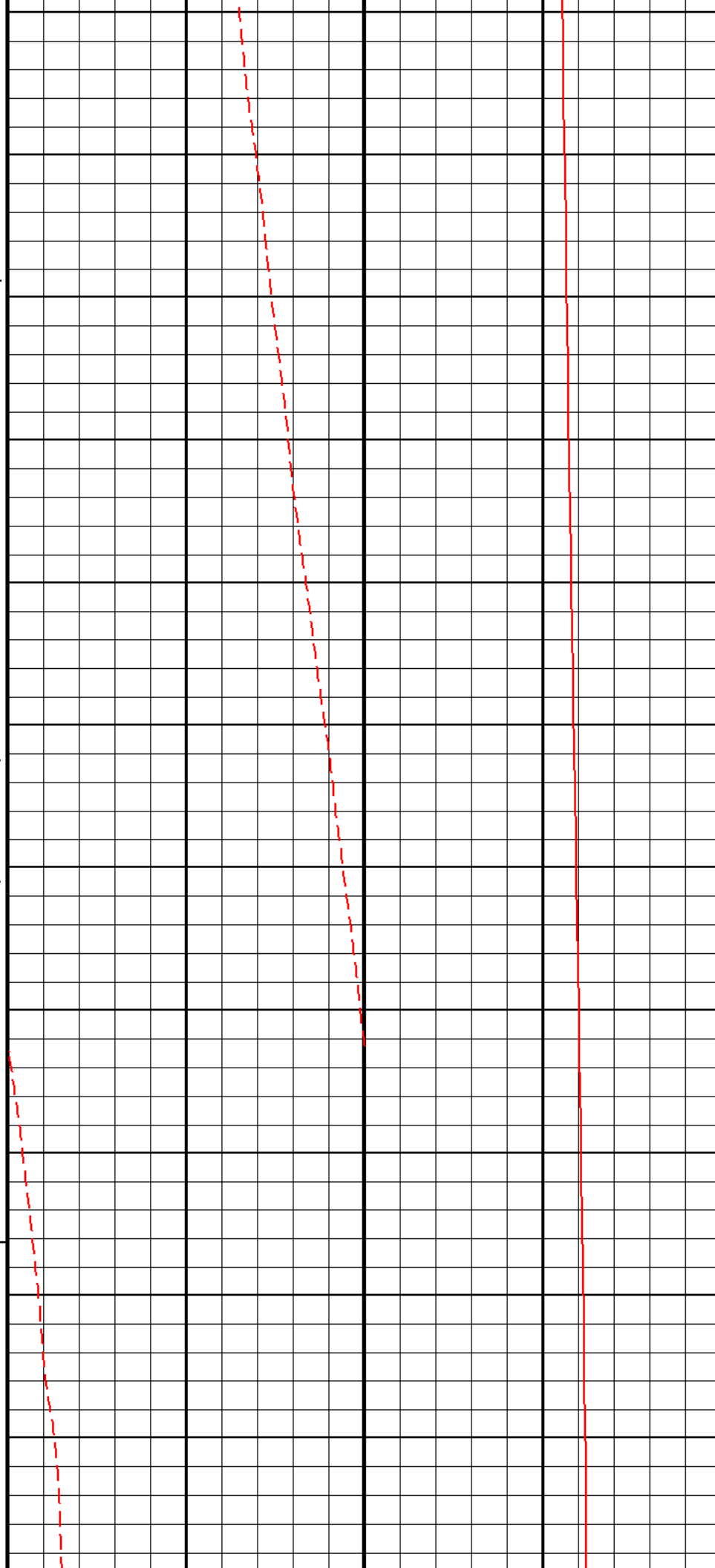
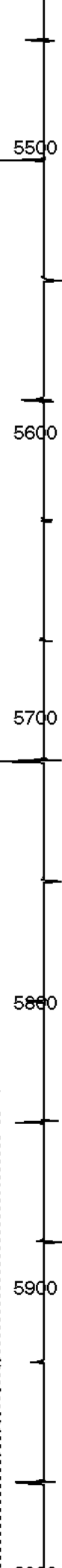
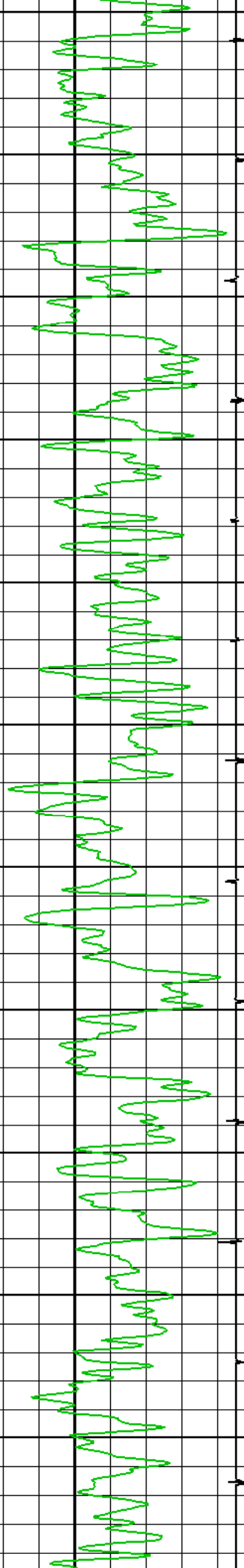


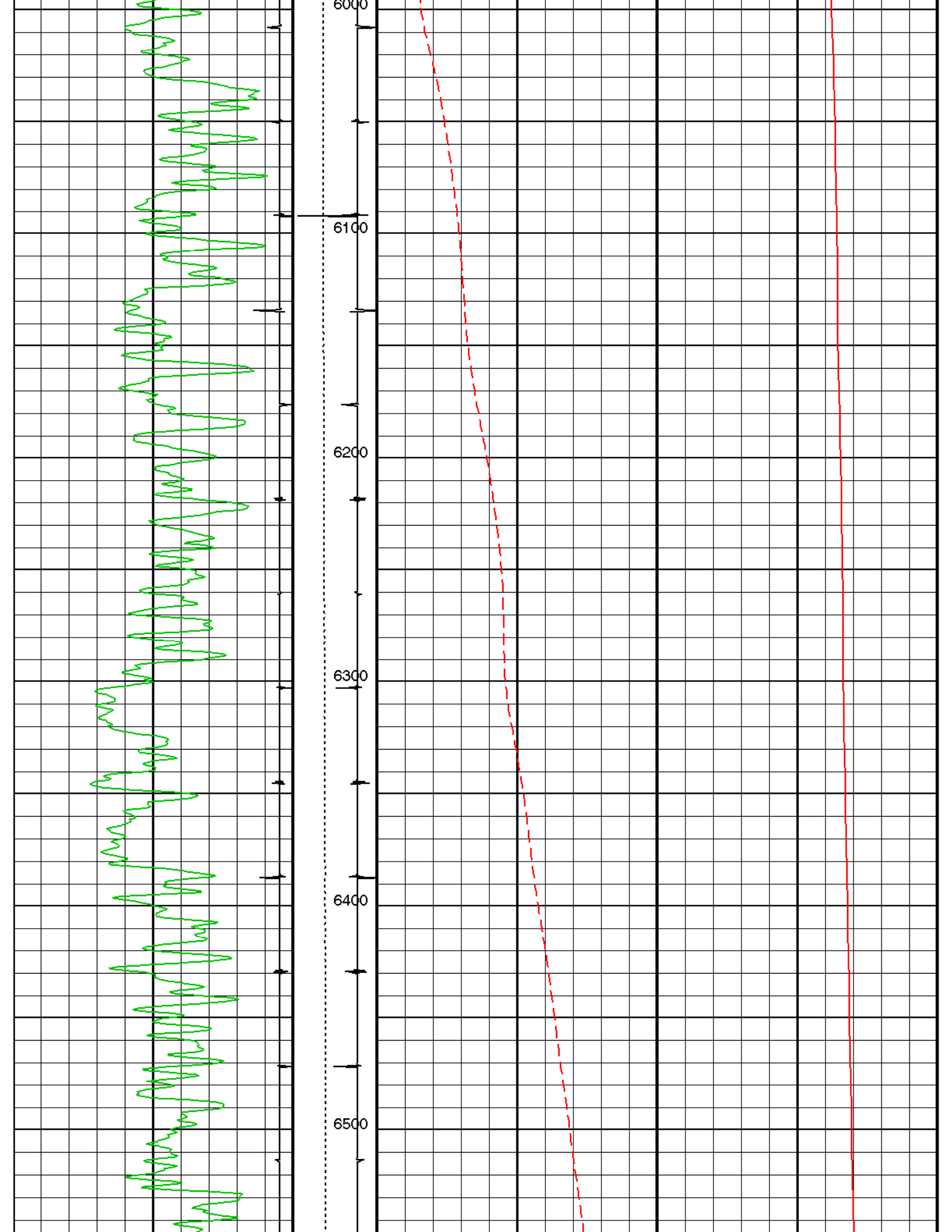


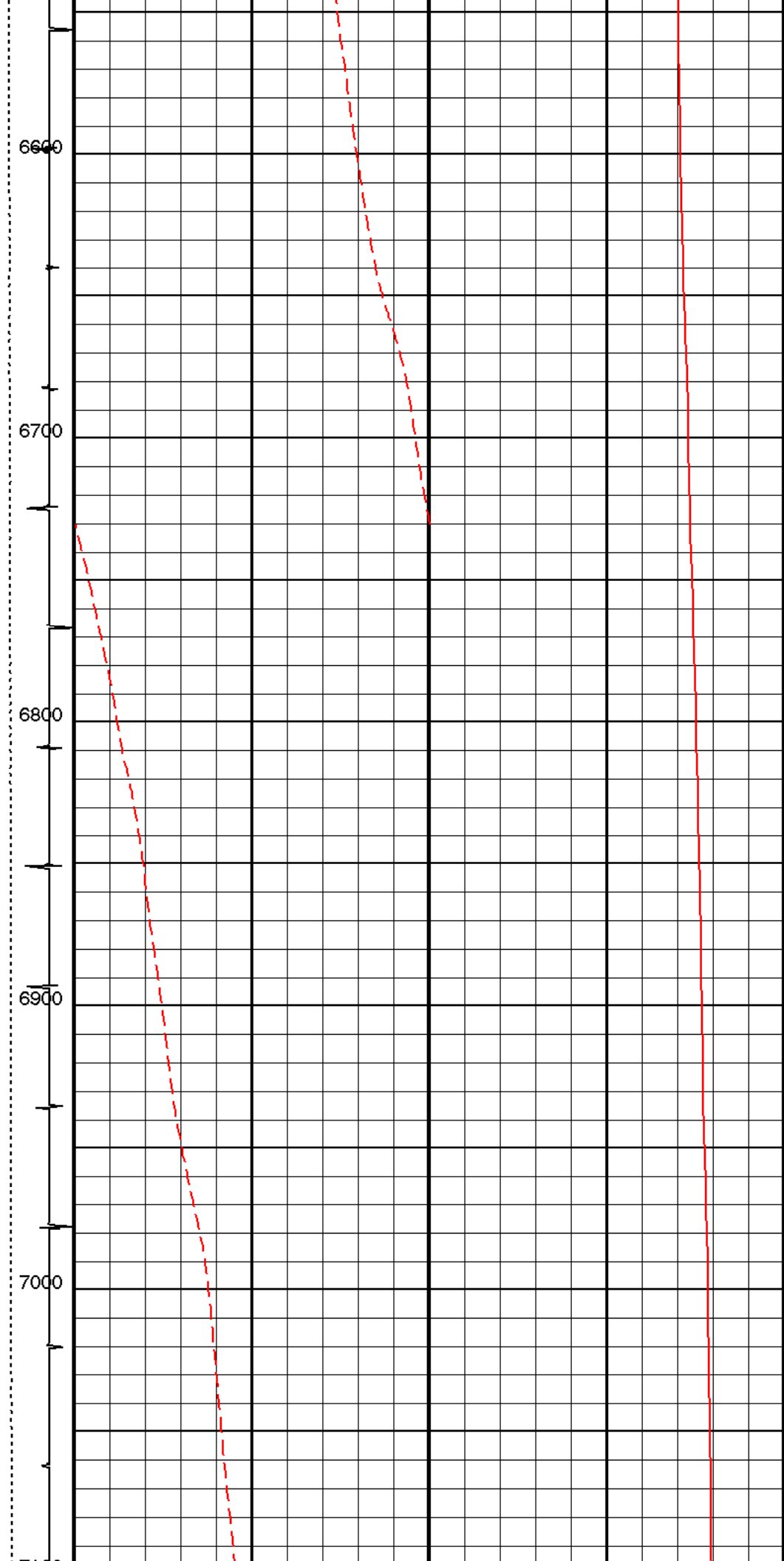
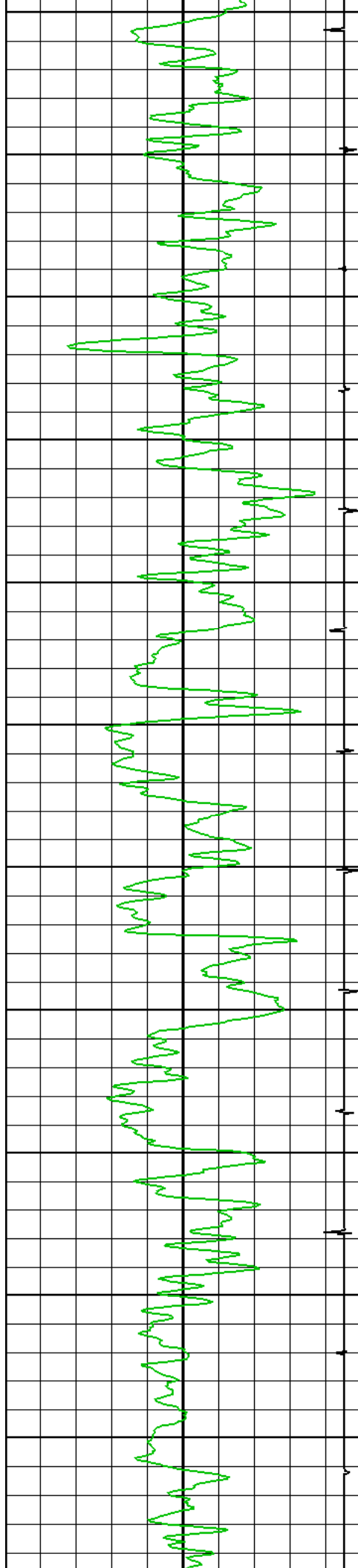


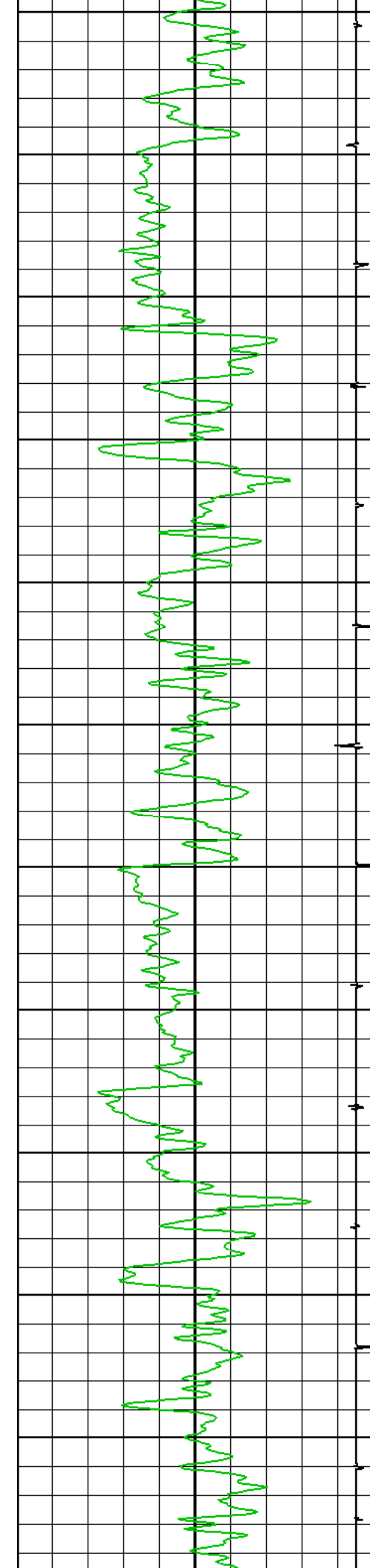
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5100
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5300
5400

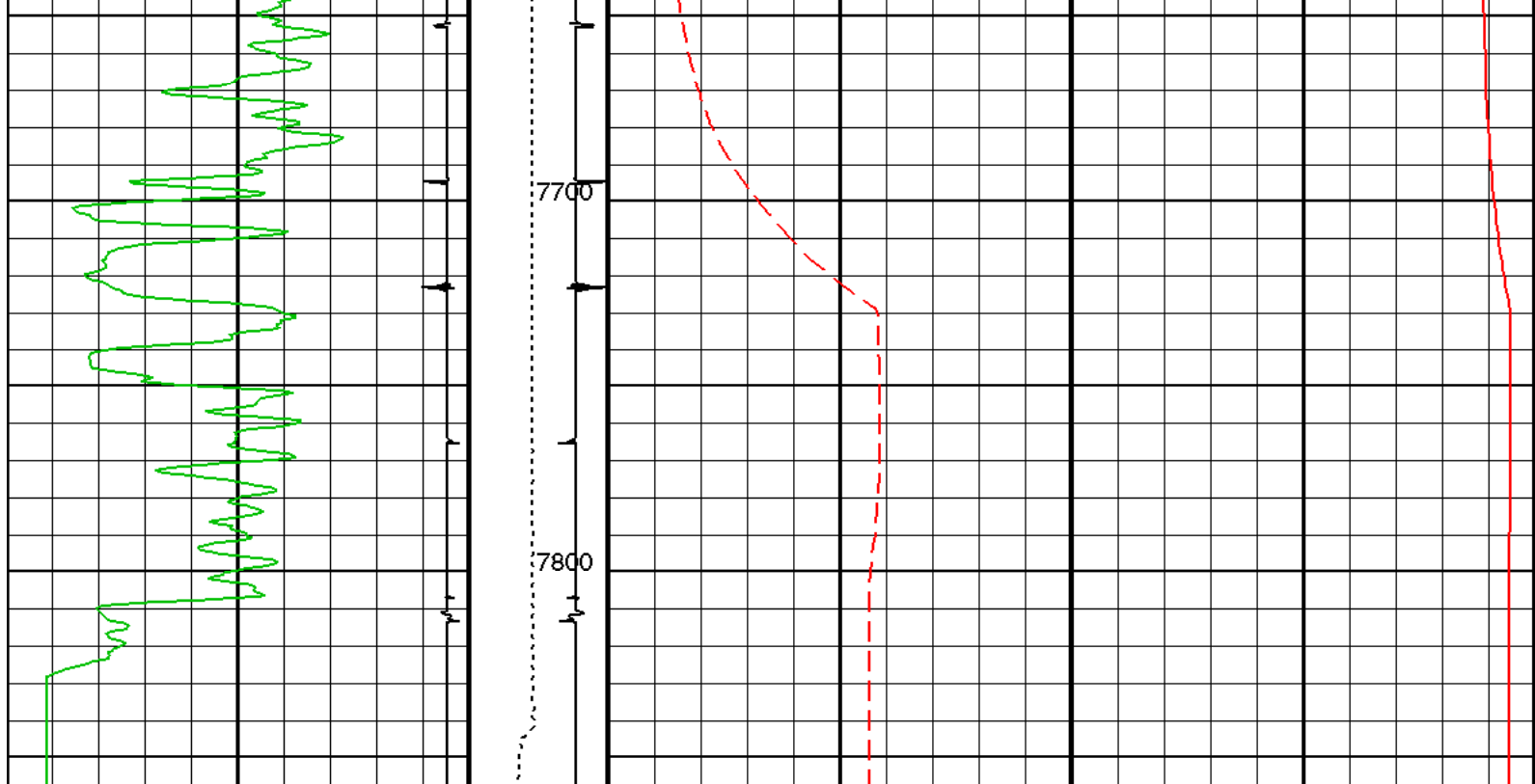












Discriminated CCL (CCLD)		Tension (TENS) (LBF)	Well Temperature (WTEP) (DEGF)		Well Temperature (WTEP) (DEGF)
-19	(V)	1	0	20 50	200
Gamma Ray (GR) (GAPI)		Discriminated CCL (CCLD) (V)			
0	150	3 -1			

Parameters						
DLIS Name		Description			Value	
System and Miscellaneous						
DO		Depth Offset for Playback			1.0	FT
PP		Playback Processing			NORMAL	
Format: TEMPERATURE_S2		Vertical Scale: 2" per 100'			Graphics File Created: 04-May-2009 18:29	
OP System Version: 17C0-154						
SCMT-CB	17C0-154		PSPT-A/B		17C0-154	
Input DLIS Files						
DEFAULT	SCMT_PSP_038LUP	FN:33	PRODUCER	04-May-2009 17:24	7857.5 FT	3452.7 FT
Output DLIS Files						
DEFAULT	SCMT_PSP_039PUP	FN:34	PRODUCER	04-May-2009 18:29		



COEFFICIENTS

Client:

Field:

Well:

Run date:

Tool:

Sub Type:

Sensor:

PSP

PBMS

Clock Model

PBMS Digitalization Clock

Sonde Serial NB

Sensor Serial NB 1959

Calib Date ddmmyy 140104

Matrix Size 16

Coeff CRC 8D74

Clock Coeff

	Temp**0	Temp**1	Temp**2
Temp**0	-.195382871810E+03	-.243518261418E+01	-.133016970611E+00
	Temp**3	Temp**4	Temp**5
Temp**0	+.111287968200E-02	+.120389104857E-05	0.0

Client:

Field:

Well:

Run date:

Tool:

Sub Type:

Sensor:

PSP

PBMS

Sapphire

PBMS Sapphire 10kPsi Gauge

Sonde Serial NB

Sensor Serial NB 1959

Calib Date ddmmyy 140104

Matrix Size 66

Coeff CRC F6D7

Pres Coeff

	Tt**0	Tt**1	Tt**2
Tp**0	-.179946431836E+04	+.157952253855E+04	-.947625837418E+03
Tp**1	+.414976314890E+04	-.295985436742E+04	+.136170348775E+04

TP**2	+1.193869599540E+00	+1.515158896341E+01	-.238425240944E+01
TP**3	-.202031312476E+01	+1.577072059311E+00	0.0
TP**4	0.0	0.0	0.0
TP**5	0.0	0.0	0.0

Tt**3

Tt**4

Tt**5

TP**0	+1.163188944621E+03	-.103123569623E+02	0.0
TP**1	-.228614519693E+03	+1.142071259710E+02	0.0
TP**2	0.0	0.0	0.0
TP**3	0.0	0.0	0.0
TP**4	0.0	0.0	0.0
TP**5	0.0	0.0	0.0

PBMS Sapphire 10kPsi Gauge

Sonde Serial NB :
 Sensor Serial NB 1959
 Calib Date ddmmyy 140104
 Matrix Size 66
 Coeff CRC F31E

Temp Coeff

Tp**0

Tp**1

Tp**2

Tt**0	-.281186128814E+03	+1.311007587327E+01	+1.101585411967E+01
Tt**1	+1.565215827289E+02	-.335488632479E+01	-.217801978672E+00
Tt**2	+1.111120964101E+02	+1.942638183292E+00	-.514397688032E-02
Tt**3	-.737109754204E+00	-.752457642311E-01	0.0
Tt**4	0.0	0.0	0.0
Tt**5	0.0	0.0	0.0

Tp**3

Tp**4

Tp**5

Tt**0	-.236048804565E+00	+1.180201234373E-01	0.0
Tt**1	+1.585143975251E-01	-.480102368779E-02	0.0
Tt**2	0.0	0.0	0.0
Tt**3	0.0	0.0	0.0
Tt**4	0.0	0.0	0.0
Tt**5	0.0	0.0	0.0

Client:

Field:

Well:

Run date:

Tool:

Sub Type:

Sensor:

PSP

PBMS

GR

PBMS Gamma Ray

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

RESISTORS FOR GR SENSOR N.33659,TOOL PBMS-AA1959. SENSOR S/N:

33659

090703

12

EE95

GR HV Rt

	Rt**0	Rt**1
Rt**0	+.200000000000e+04	+.364000000000e+04

Client:

Field:

Well:

Run date:

Tool:

Sub Type:

Sensor:

PSP

PBMS

WellTemp RTD

PBMS RTD Well Thermometer

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

COEFFICIENTS FOR RTD THERMOMETER PBMS-A.1959 S/N:

1959

140104

16

9845

WTemp Coeff

	Tt**0	Tt**1	Tt**2
Tt**0	-.172864575497E+02	-.199358370151E+03	+.102875069491E+03
	Tt**3	Tt**4	Tt**5
Tt**0	-.153744880398E+02	+.872847925617E+00	0.0

Company: **BILL BARRETT CORPORATION**

Schlumberger

Well: **JOLLEY 31D-21-691**

Field: **MAMM CREEK**

County: **GARFIELD**

State: **COLORADO**

CEMENT BOND LOG

CBL - VDL

GAMMA RAY - CCL