

Schlumberger

Company: Noble Energy Inc.

Well: Dyer USX AB35-67-1NH

Field: Wattenberg

County: Weld

State: Colorado

Isolation Scanner
State Print

County: Weld

Field: Wattenberg

Location: Sec. 34, T7N, R64W

Well: Dyer USX AB35-67-1NH

Company: Noble Energy Inc.

LOCATION

Sec. 34, T7N, R64W

Lat/Long: 40.53 N 104.53 W

Elev.: K.B. 4896.00 ft

G.L. 4882.00 ft

D.F. 4896.00 ft

Permanent Datum: _____

Ground Level _____

Elev.: 4872.00 ft _____

Log Measured From: _____

Kelly Bushing _____

24.00 ft above Perm. Datum

Drilling Measured From: _____

Kelly Bushing _____

API Serial No. 05-123-34772

Section 34

Township 7N

Range 64W

PVT DATA				Run 1	Run 2	Run 3
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 5-Apr-2012

Run Number 1

Depth Driller 11707 ft

Schlumberger Depth 6900 ft

Bottom Log Interval 6900 ft

Top Log Interval 0 ft

Casing Fluid Type BRINE

Salinity

Density 8.3 lbm/gal

Fluid Level 0 ft

BIT/CASING/TUBING STRING

Bit Size 8.750 in

From

To 11707 ft

Casing/Tubing Size 7.000 in

Weight 26 lbm/ft

Grade J-55

From

To 9129 ft

Maximum Recorded Temperatures

Logger On Bottom 5-Apr-2012

Time 15:00

Unit Number 3021

Location Fort Morgan

Recorded By Allison Johnston

Witnessed By Kelli Hale

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						
Time						
Unit Number						
Location						
Recorded By						
Witnessed By						

DISCLAIMER

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OTHER SERVICES1

OS1: Casing Collar

OS2: Locator

OS3:

OS4:

OS5:

OTHER SERVICES2

OS1:

OS2:

OS3:

OS4:

OS5:

REMARKS: RUN NUMBER 1

1) Toolstring run as per tool sketch.

2) USIT cartridge run with two gemcos for centralization.

3) Two inline spring centralizers run on the sonde for centralization.

4) Knuckles run in between the sonde and the cartridge and the between the cartridge and the SGT-N to compensate for dog legs.

5) One in line centralizer run just below the head for extra centralization.

6) HiRes repeat pass done from 6900 to 5950' under 3000psi to correct for micro annulus.

7) Lead cement 12 ppq, tail cement 13.8 ppq.

Schlumberger Crew: David Marquez, Jake Jump and Chris Parent

RUN 1

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

C31T-00008
19C1-222
0 ft

LOGGED INTERVAL

START

STOP

RUN 2

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

LOGGED INTERVAL

START

STOP

[illegible]

RUN 1

RUN 2

SURFACE EQUIPMENT

GSR-U/Y
WITM (DTS)-A

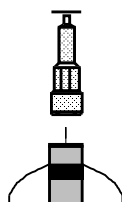
DOWNHOLE EQUIPMENT

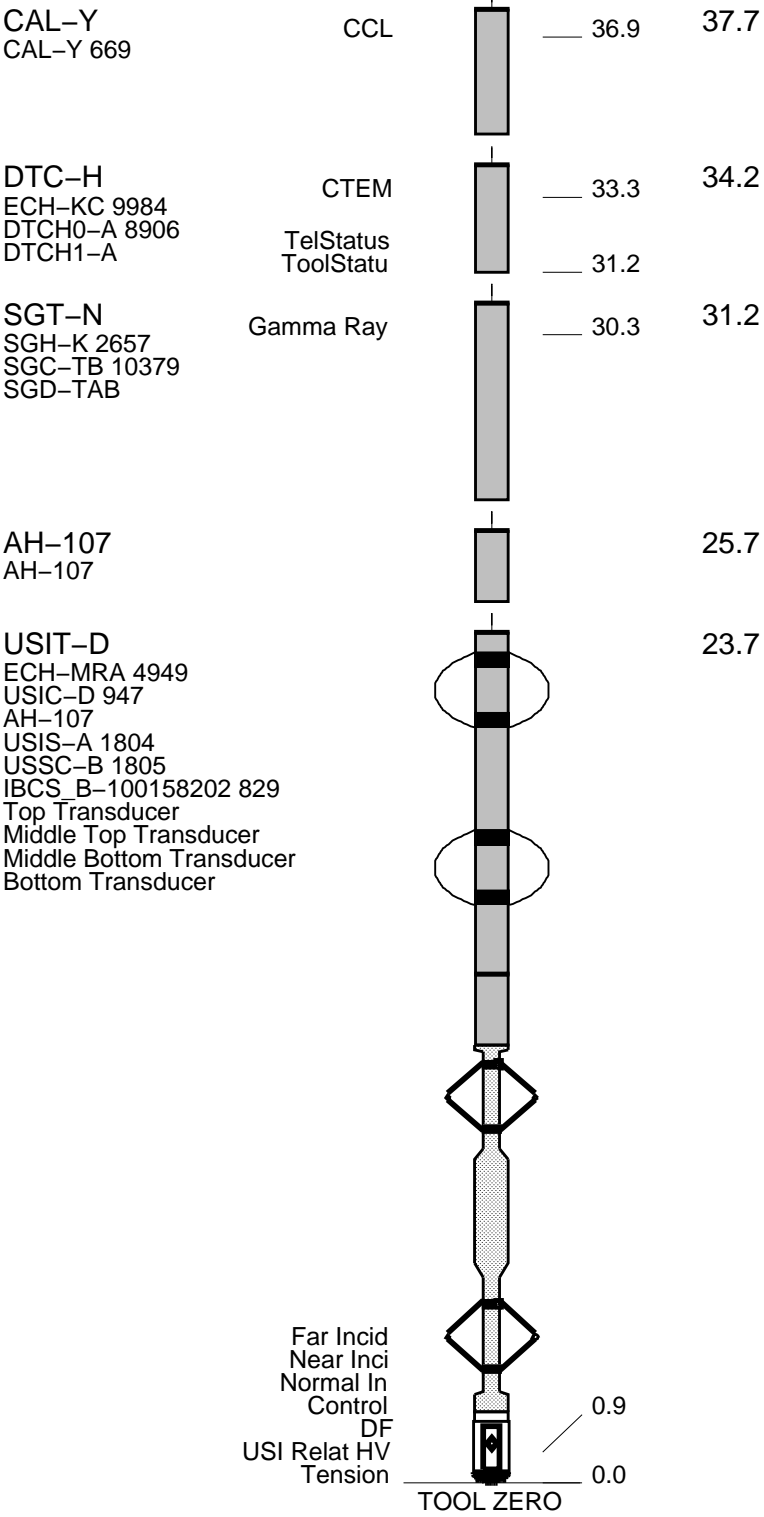
LEH-QT
LEH-QT 2110

44.5

AH-InLine Centralizer

41.6





MAXIMUM STRING DIAMETER 7.50 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Schlumberger

Cement Composite
2"=100'

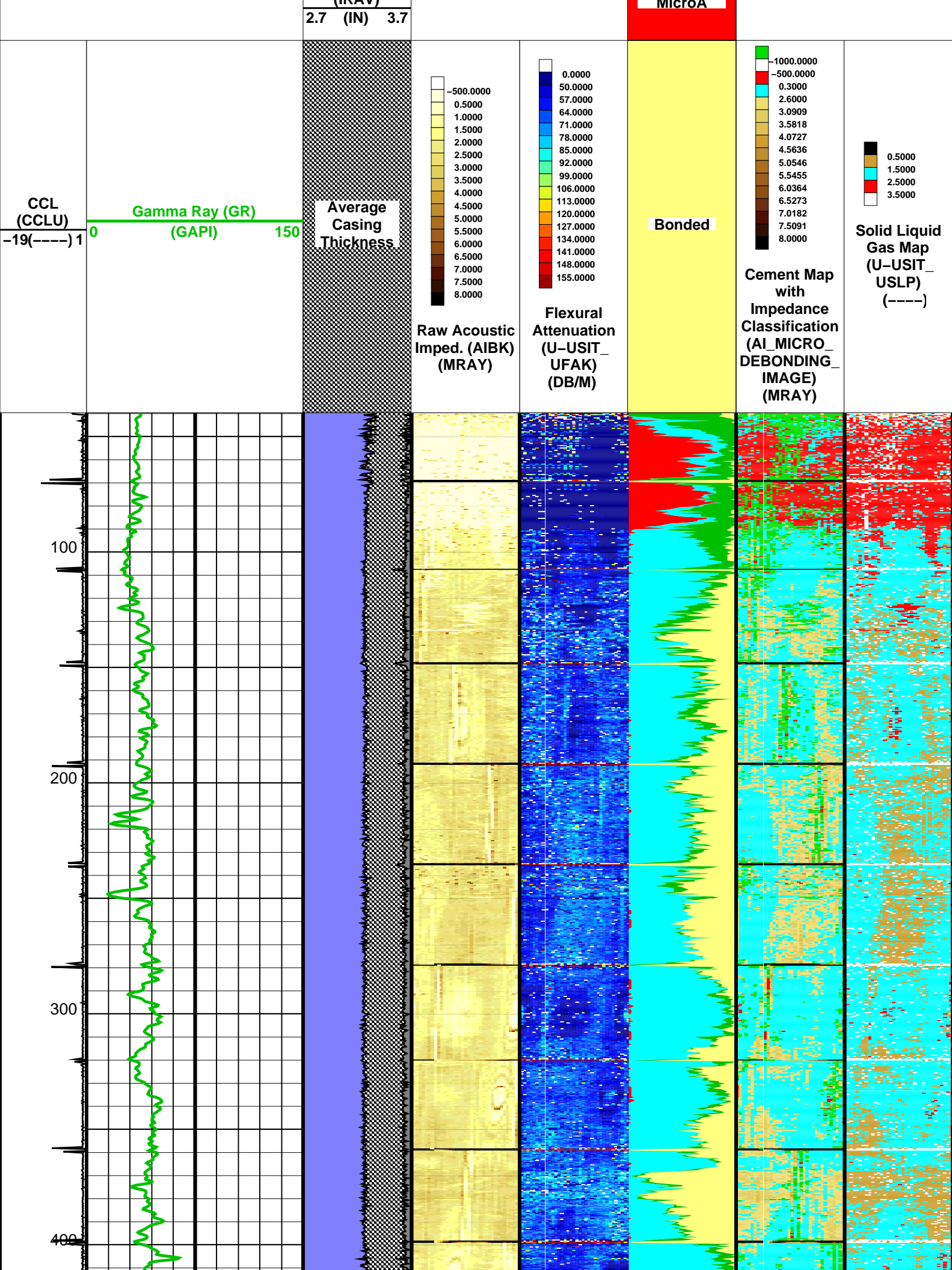
MAXIS Field Log

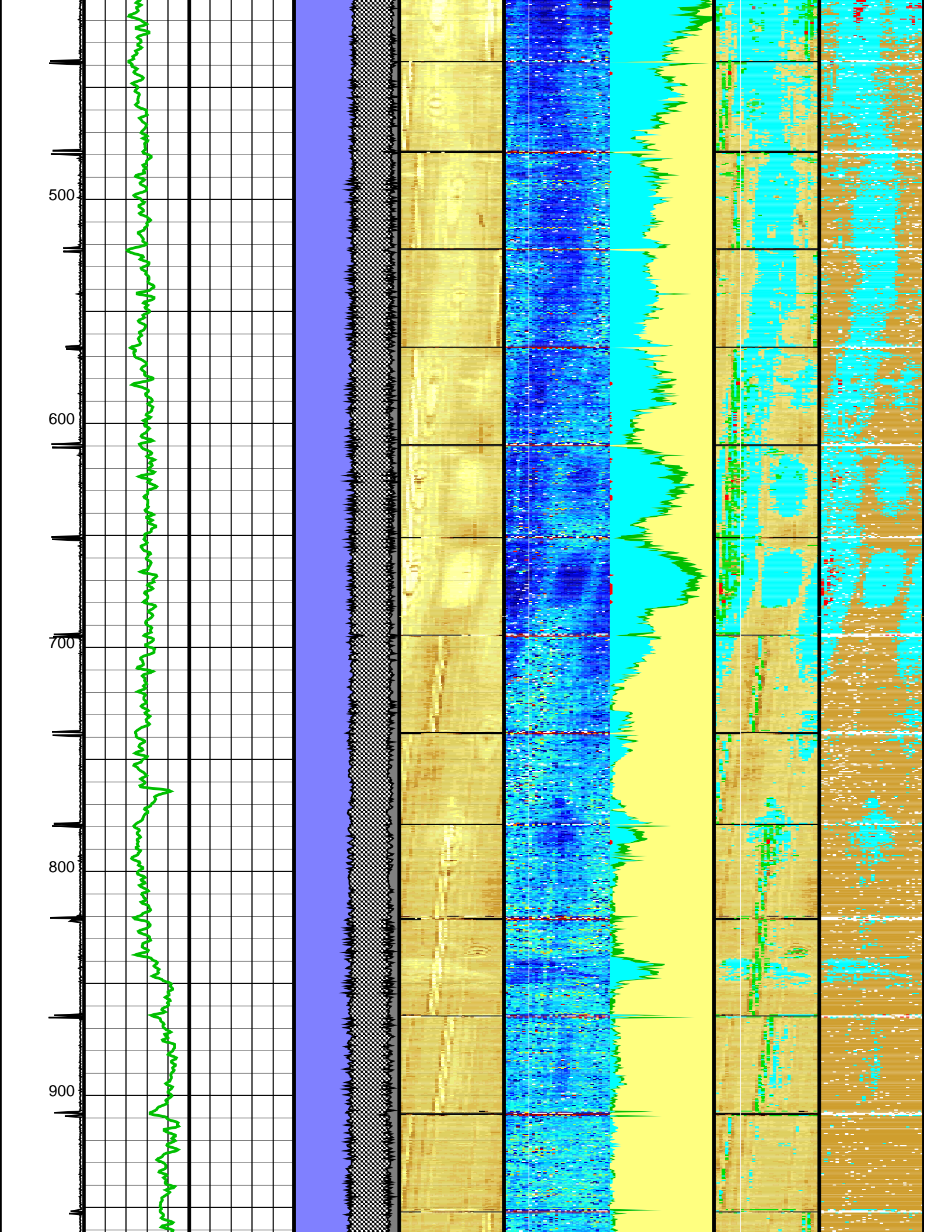
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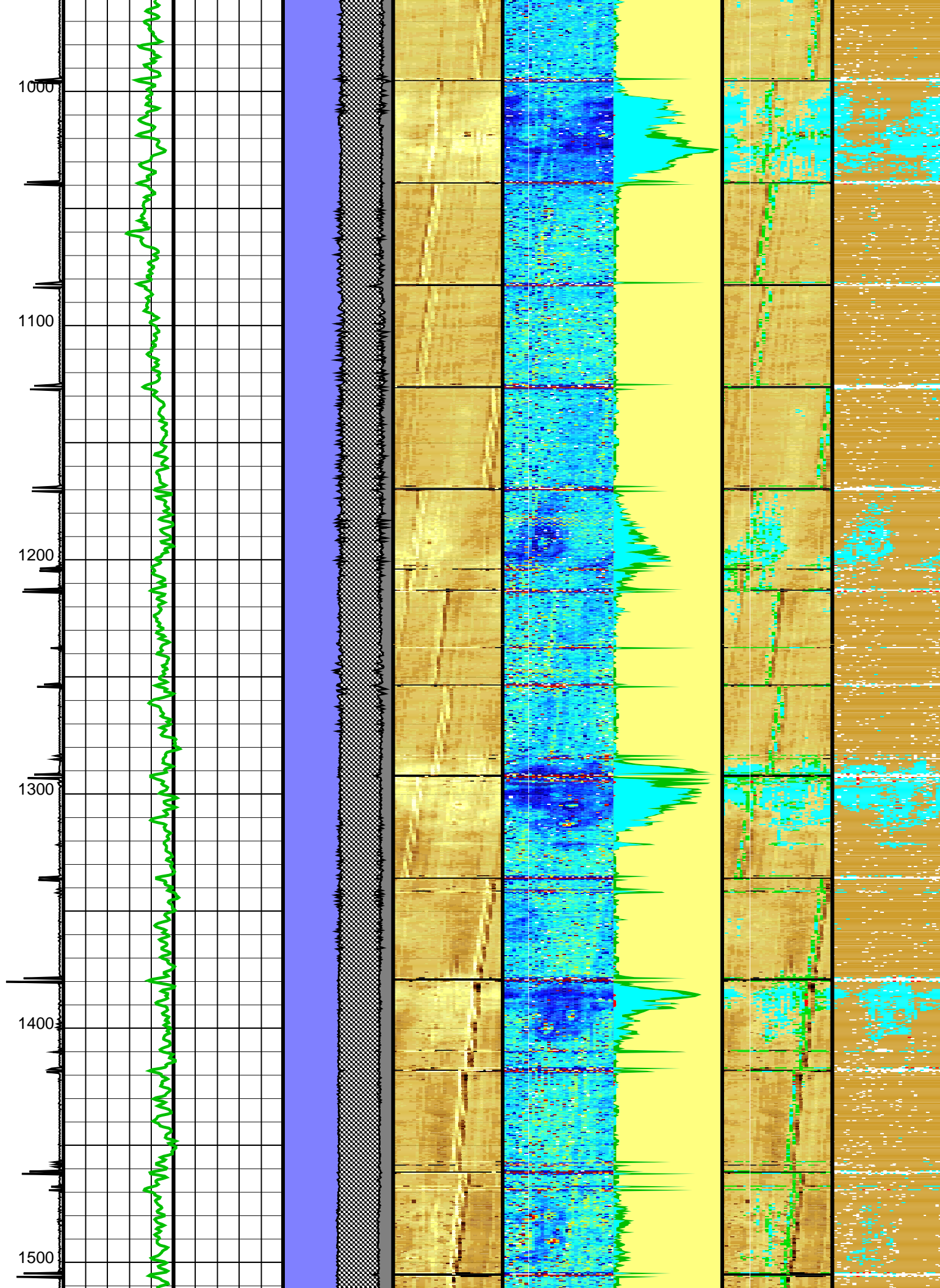
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Output DLIS Files					
DEFAULT	USI_009PUP	FN:8	PRODUCER	23-Apr-2013 16:08	6904.0 FT 39.5 FT
OP System Version: 19C1-222					
USIT-D	19C1-222	SGT-N	19C1-222		
DTC-H	19C1-222	CAL-Y	19C1-222		

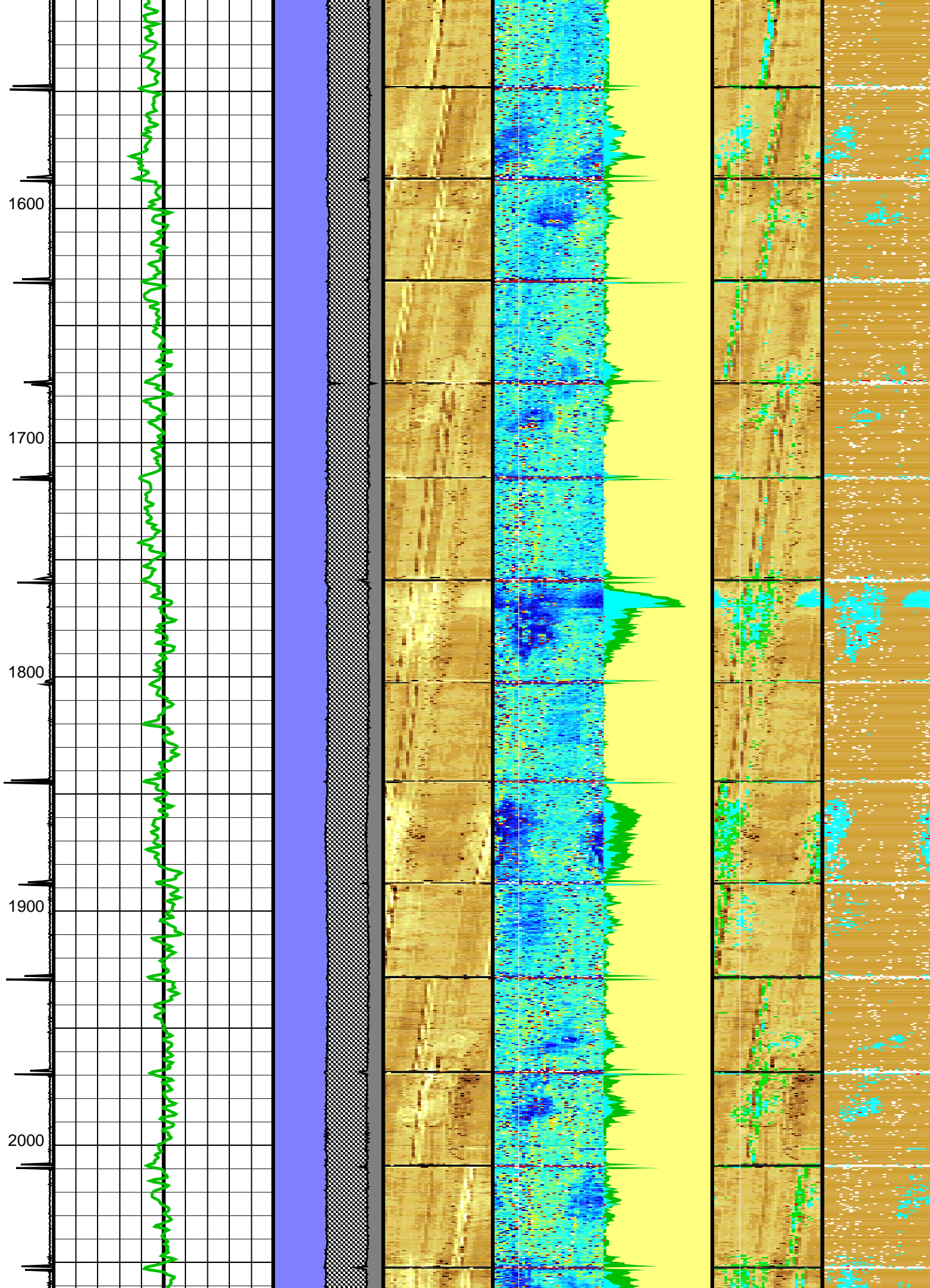
External radius Average (ERAV)		
2.7	(IN)	3.7
Internal radius Average (IRAV)		

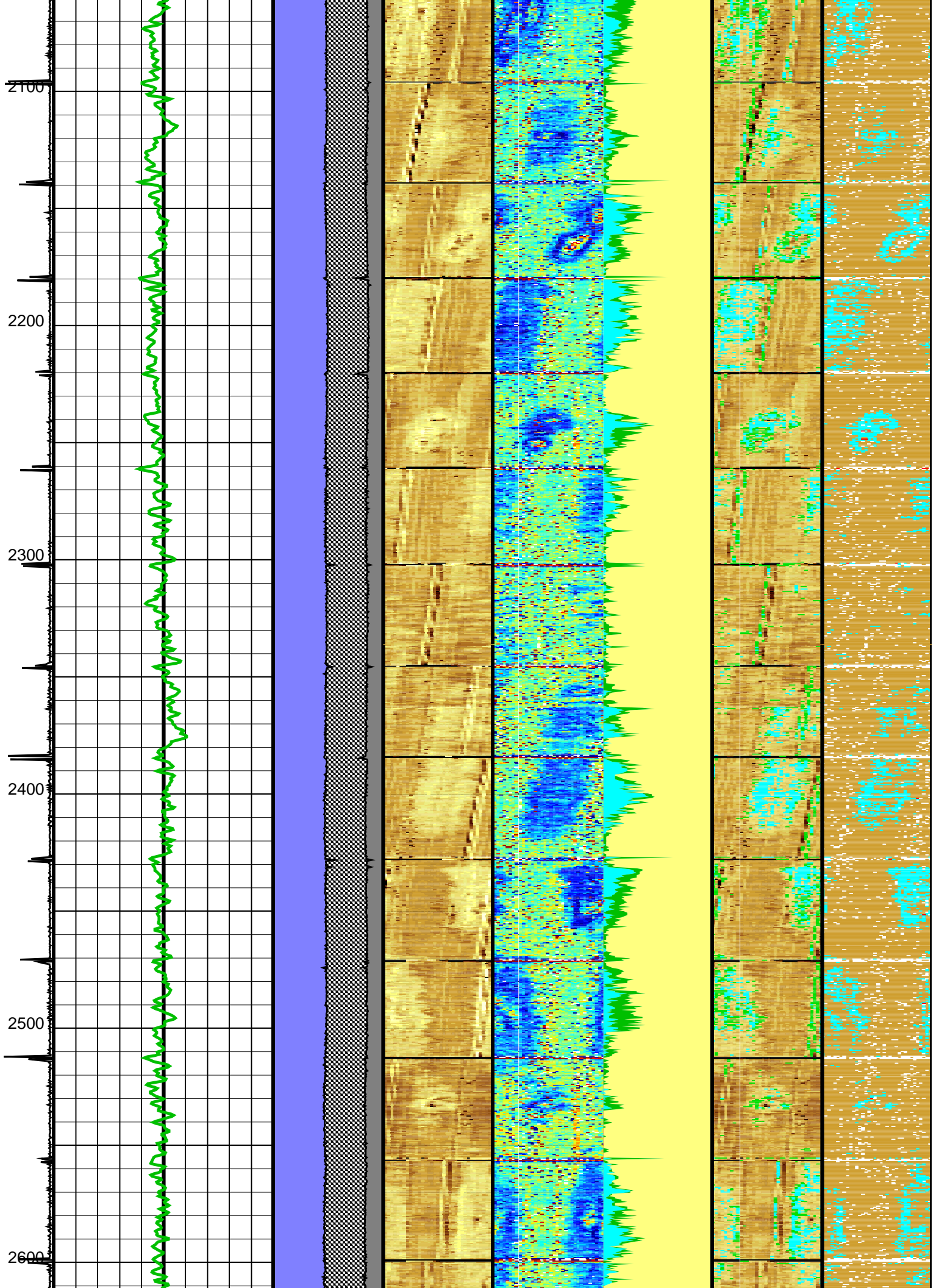
Micro-debonding
Liquid
Gas or Dry Micro-A

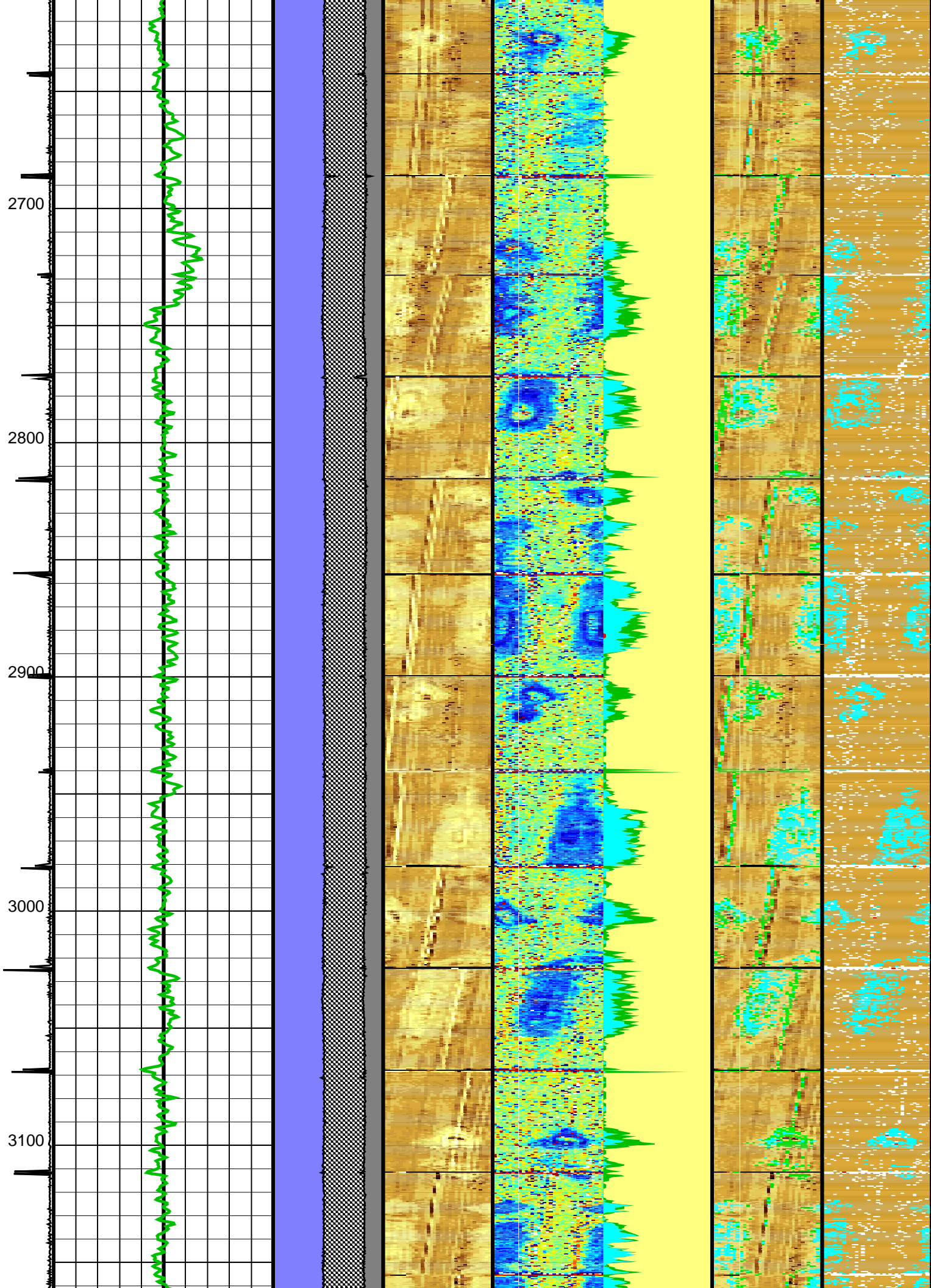


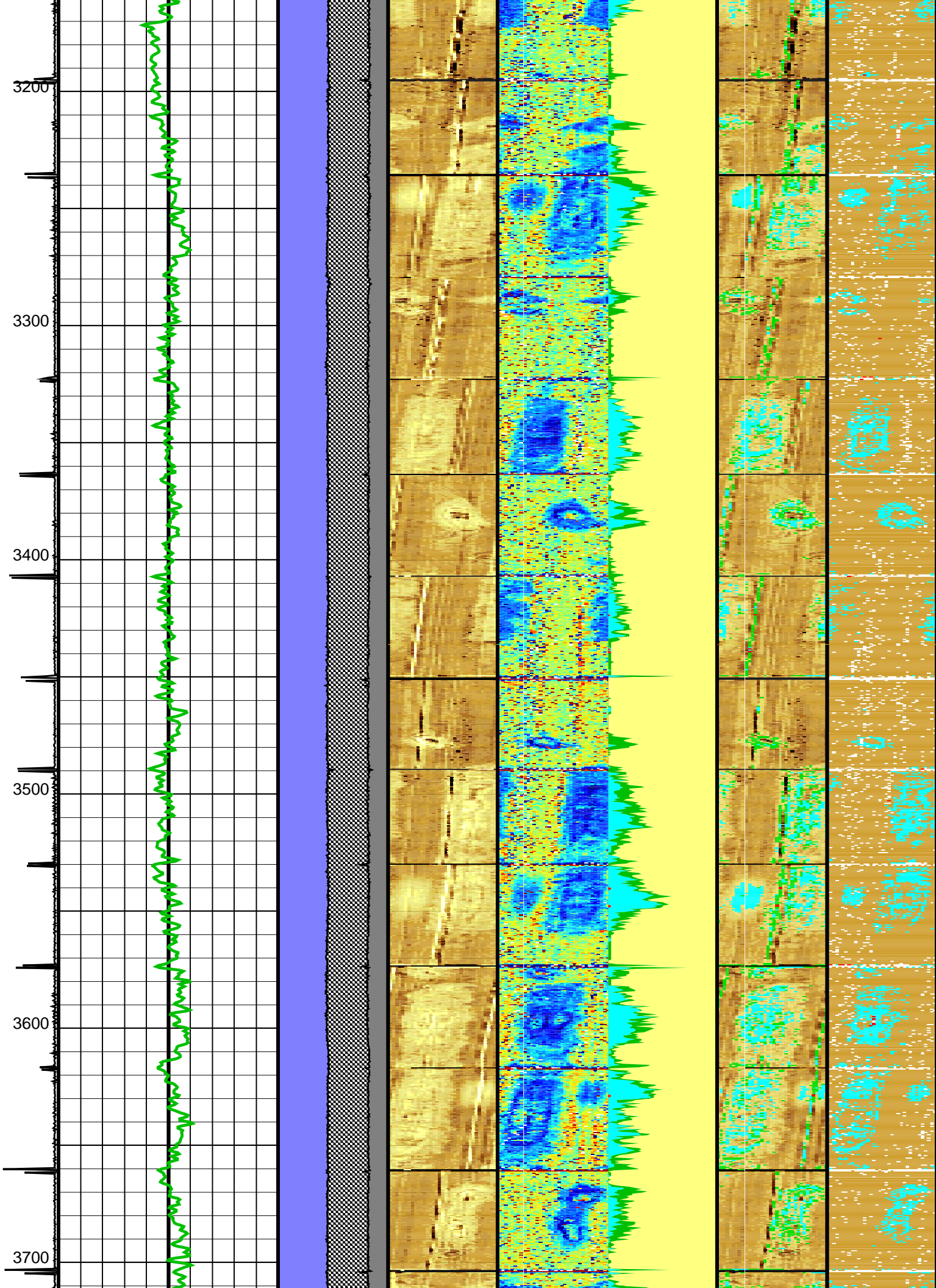


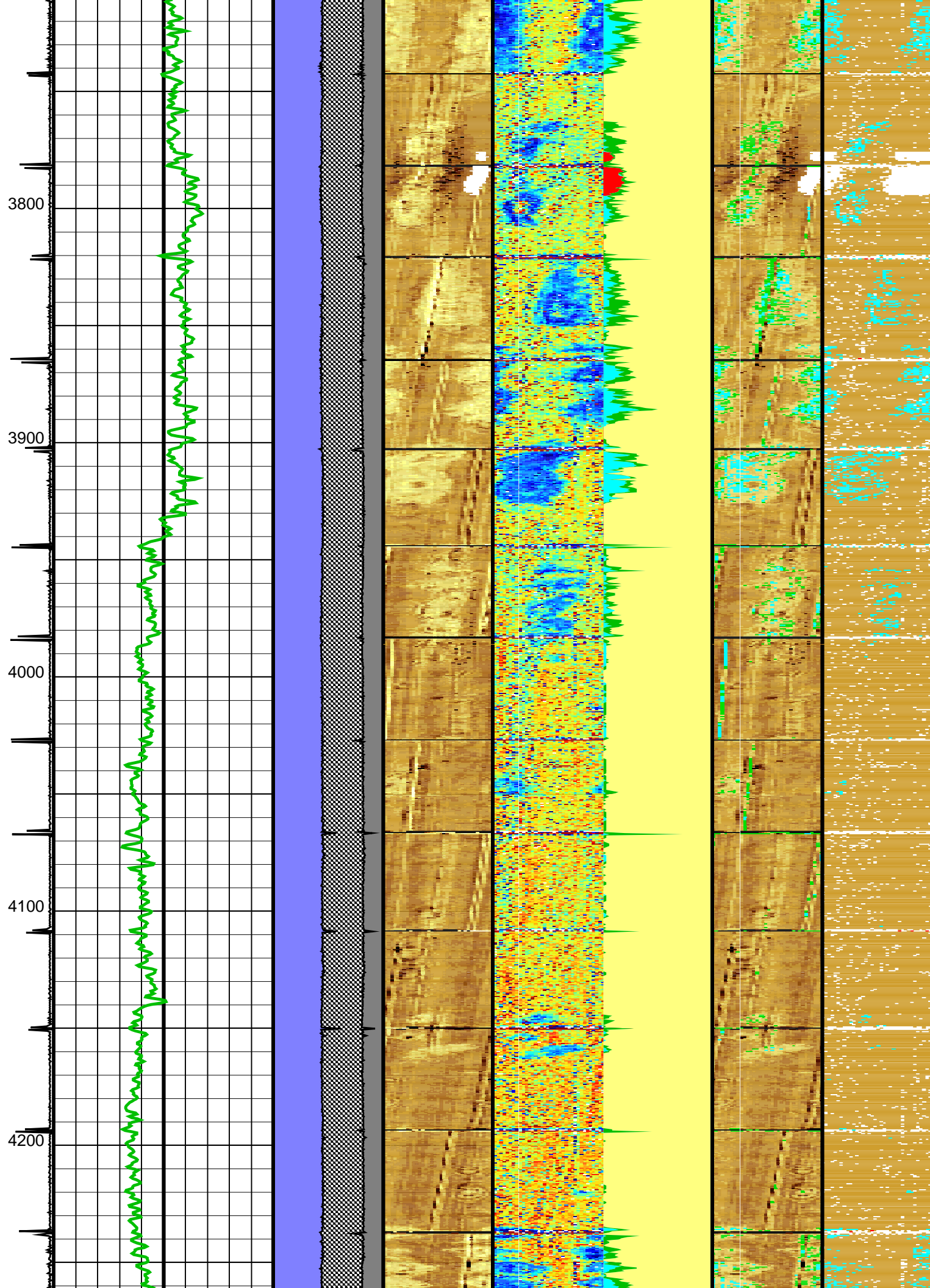


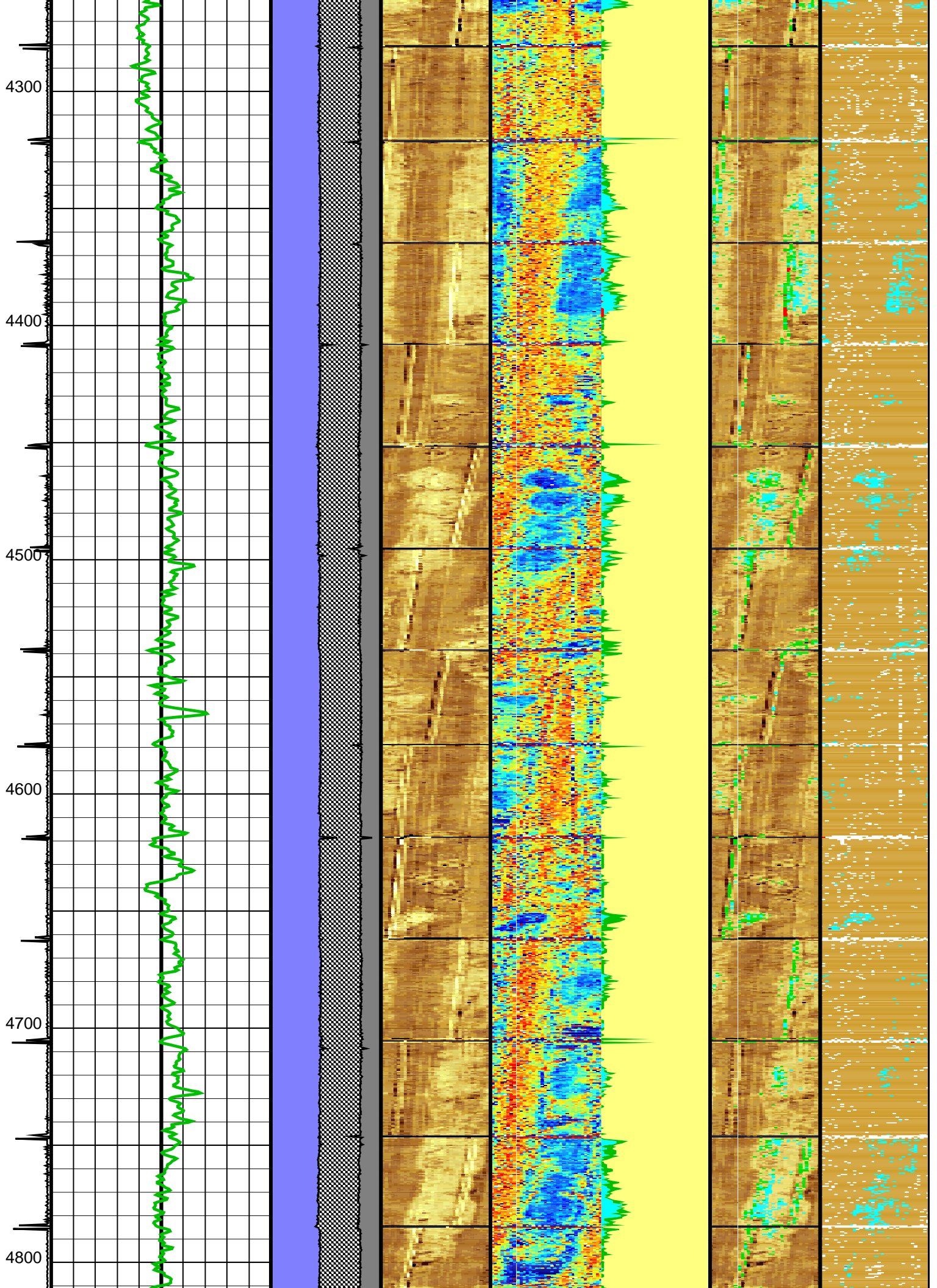


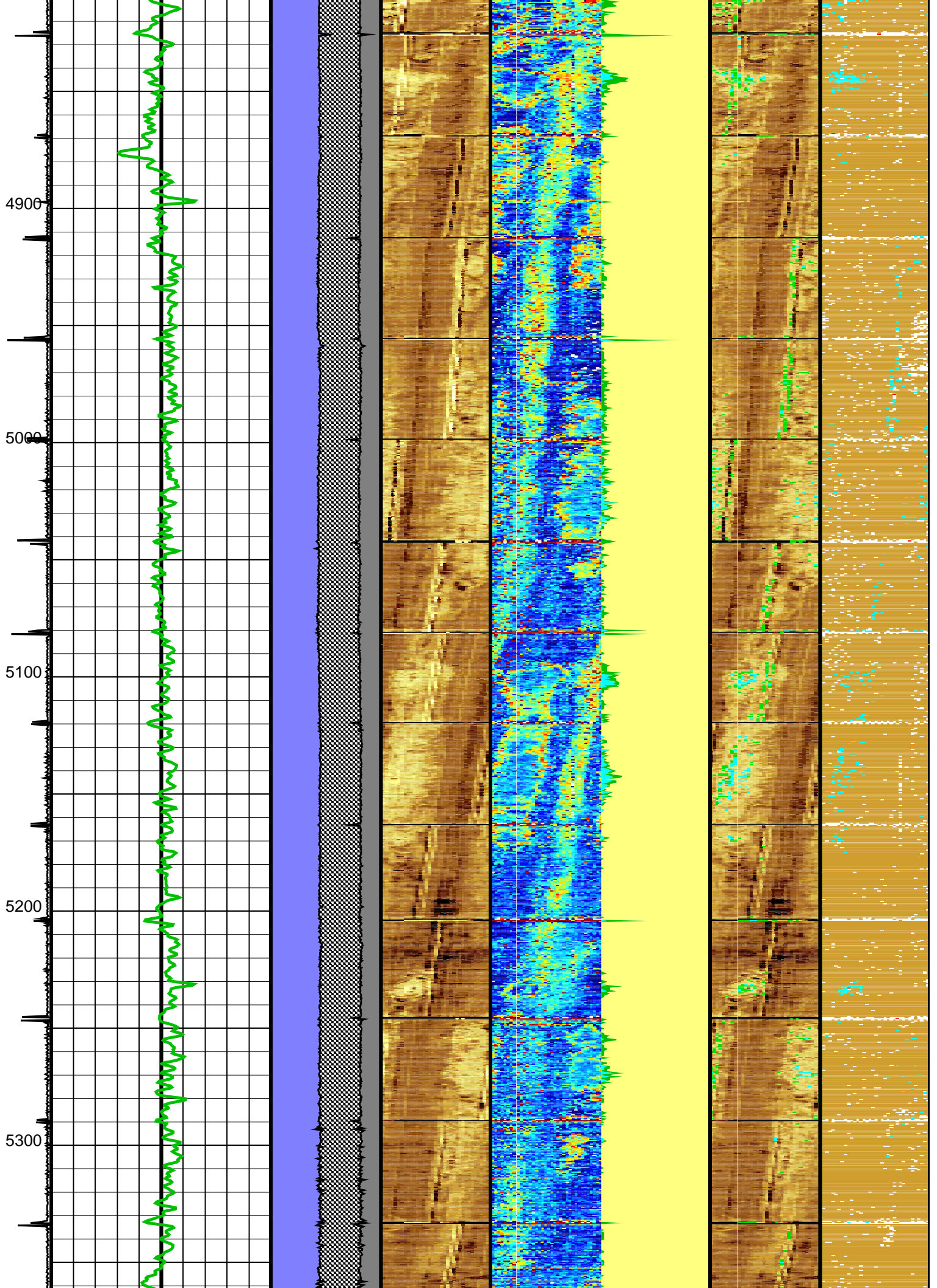


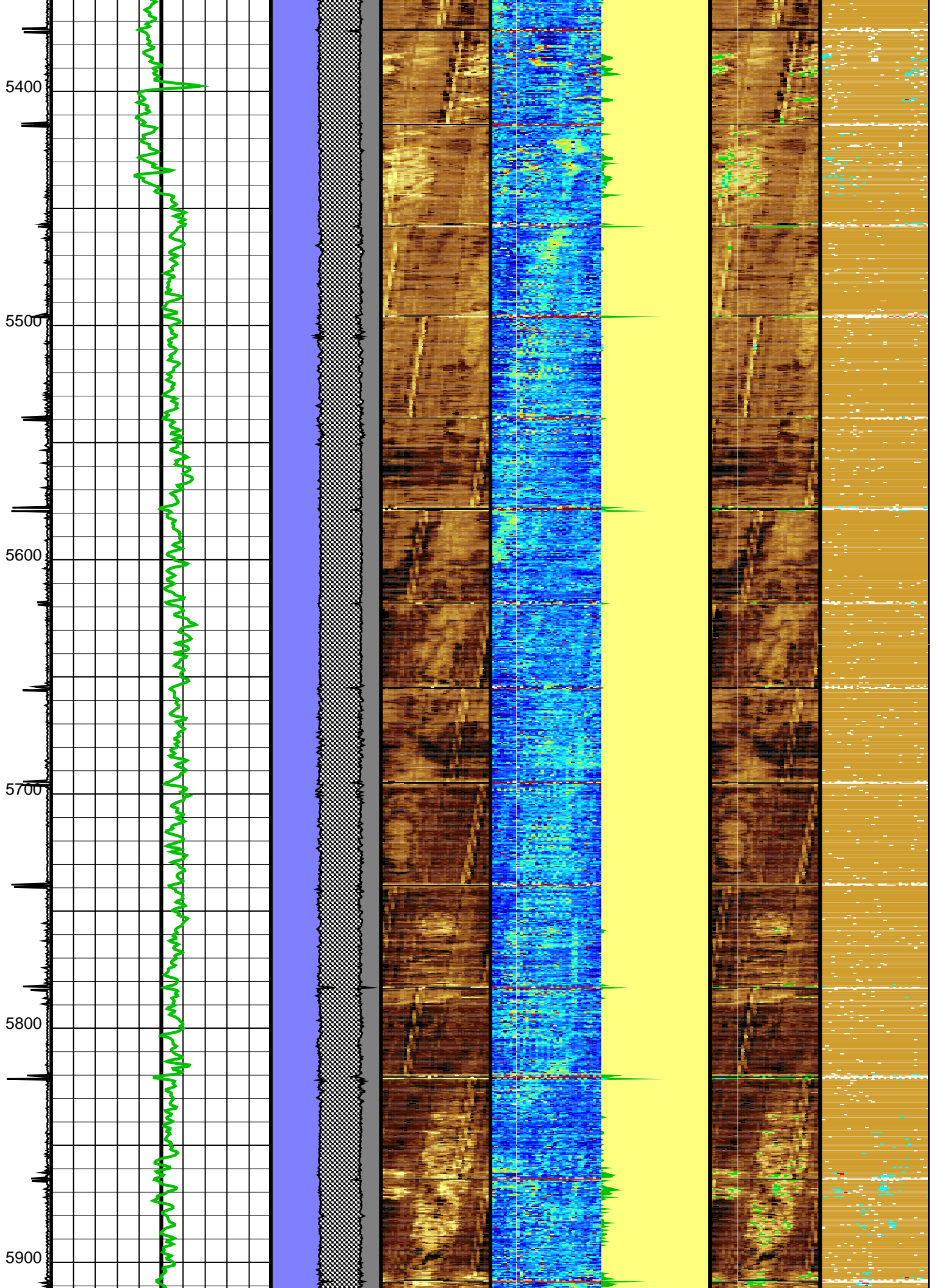


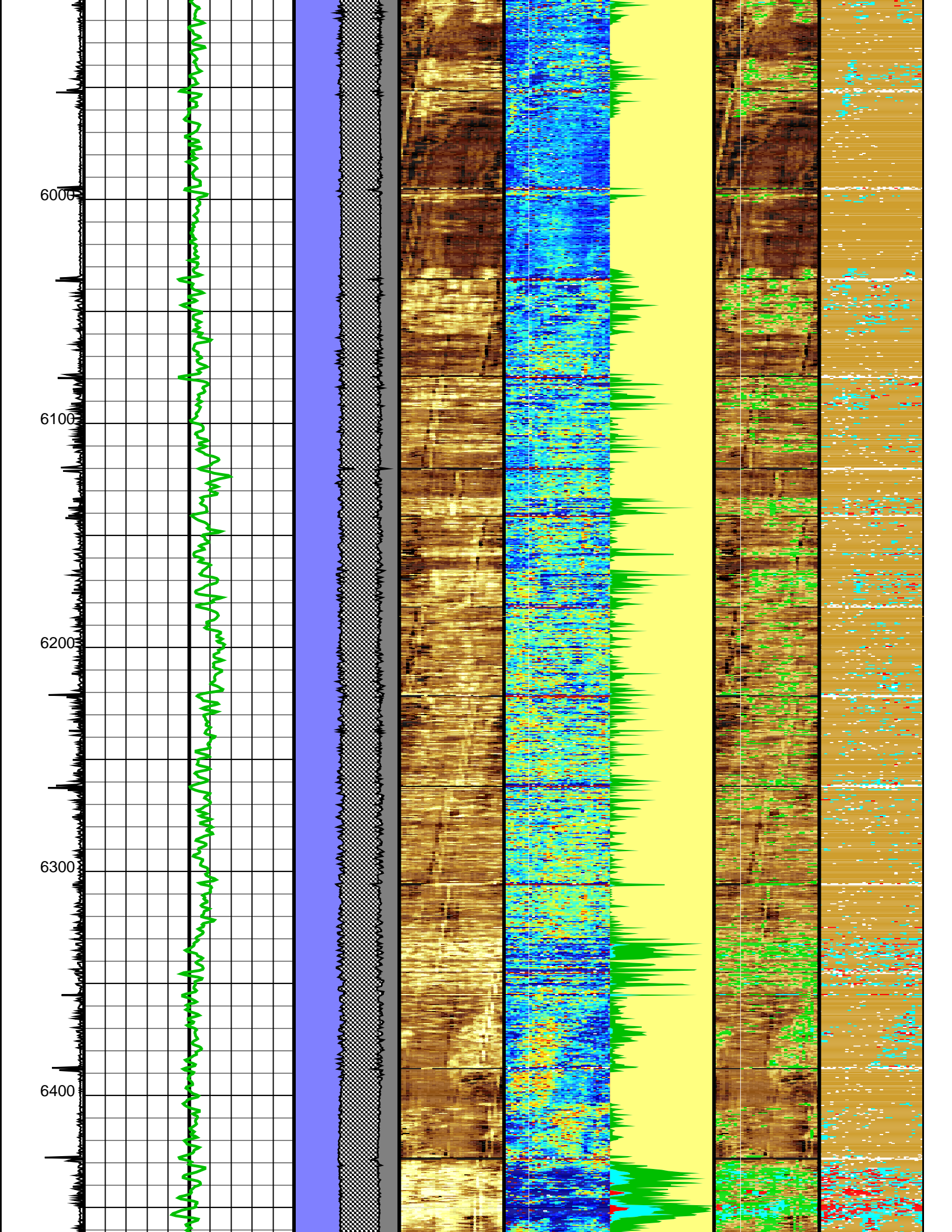


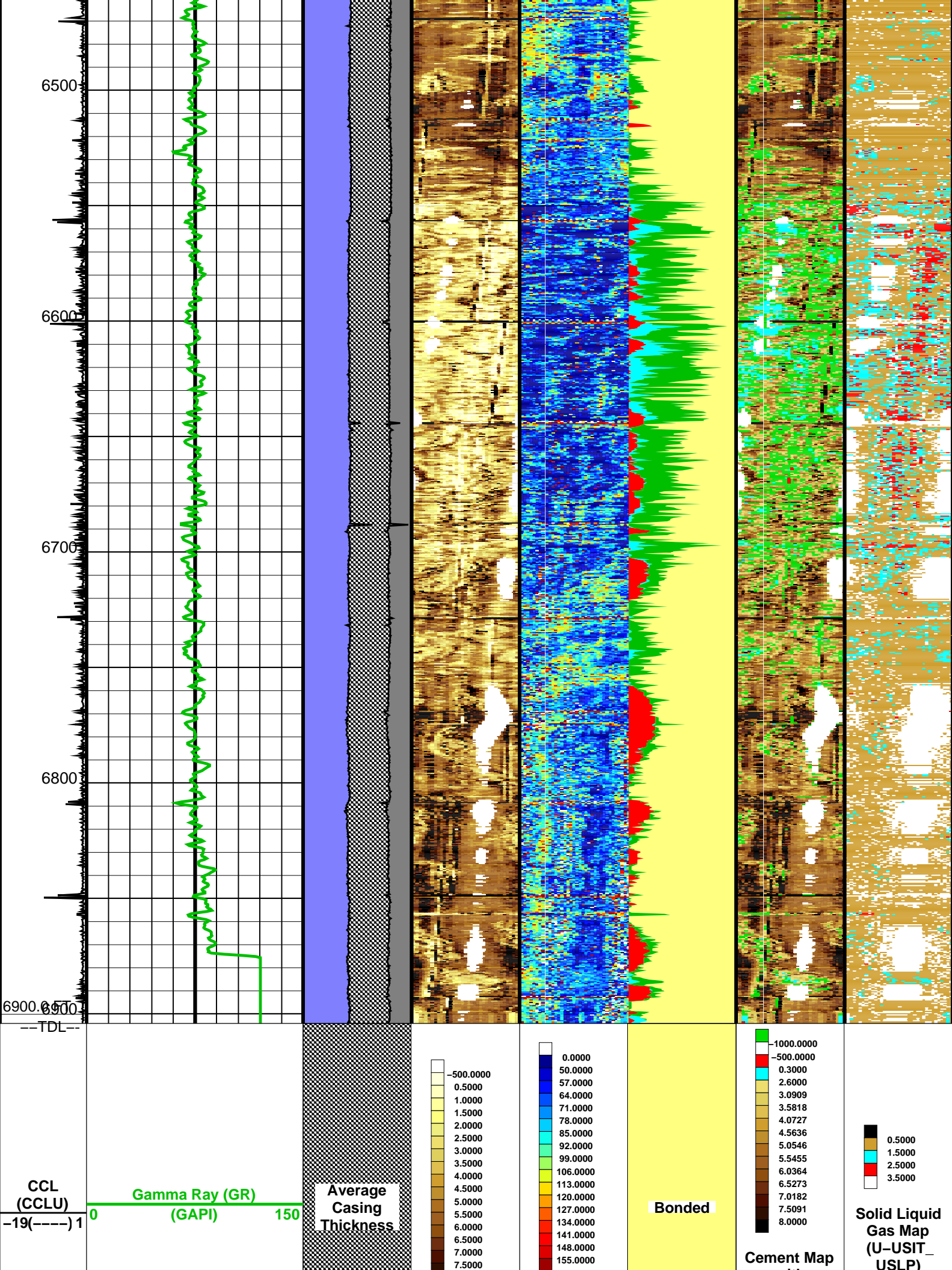












CCL
(CCLU)
-19(-----) 1


Gamma Ray (GR)
(GAPI)

Average
Casing
Thickness

Bonded

Cement Map

Solid Liquid
Gas Map
(U-USIT_
USLP)

			8.0000	Raw Acoustic Imped. (AIBK) (MRAY)	Flexural Attenuation (U-USIT_UFAK) (DB/M)		with Impedance Classification (AI_MICRO_DEBONDING_IMAGE) (MRAY)	(----)			
		Internal radius Average (IRAV)				Gas or Dry MicroA					
		2.7 (IN) 3.7									
		External radius Average (ERAV)				Liquid					
		2.7 (IN) 3.7									
						Micro-debonding					

Format: IBC ND State Only 2 inch Vertical Scale: 2" per 100' Graphics File Created: 23-Apr-2013 16:08

OP System Version: 19C1-222

USIT-D	19C1-222	SGT-N	19C1-222
DTC-H	19C1-222	CAL-Y	19C1-222

All USI Images are outside views

USI : LOW Frequency Compression Mode Used For Logging.


Recommended casing thickness range for optimum cement impedance measurement : 0.27 to 0.6 IN.

Parameters

DLIS Name	Description	Value	
USIT-D: Ultrasonic Imaging – D			
AGMN	Minimum Gain of Cartridge	–4	DB
AGMX	Maximum Gain of Cartridge	20	DB
BERJ	Bad Echo Rejection	ON	
CDIA	Casing Outer Diameter	7	IN
CSDE	Casing Density	486.94	LBCF
CSID	Casing Inner Diameter	6.276	IN
DFVL	Default Fluid Velocity	196	US/F
DOT	Diameter of Transducer Sensor	2.874	IN
EMXV	EMEX Voltage	20	V
FSOD	Fluid Slowness Fits Casing Outer Diameter	2_UFSL_N_UFAI	
MW	Mud Weight	8.3	LB/G
RCOD	Reference Calibrator Outer Diameter	7	IN
RCSO	Reference Calibrator Standoff	1.1811	IN
RCTH	Reference Calibrator Thickness	0.2952	IN
SDNV	Number of Vertical Samples used for Micro–debonding Computation	5	
SDTHOR	Acoustic Impedance STD Horizontal Threshold for Micro–debonding	0.5	
SDTVER	Acoustic Impedance STD Vertical Threshold for Micro–debonding	0.3	
TCUB	T^3 Processing Level	Vax_Loop	
THDH	Maximum Search Thickness (percentage of nominal)	130	
THDL	Minimum Search Thickness (percentage of nominal)	70	
THDP	Thickness Detection Policy	Fundamental	
THNO	Nominal Thickness of Casing	0.362	IN
U-USIT_CEMT	USIT Cement Type	LIGHT	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	0	MRAY
U-USIT_IISR	USIT IBC Inverted Fluid Slowness Resolution	1.0_US_P_FT	
U-USIT_IIZR	USIT IBC Inverted ZMUD Resolution	0.050_MRAY	
U-USIT_OCDI	USIT Outer Casing Diameter	0	IN
U-USIT_OCSH	USIT Outer Casing Shoe	0	FT
U-USIT_OCWE	USIT Outer Casing Weight	0	LB/F
U-USIT_TIER	IBC Third Interface Echo Bin Processing	YES	

U-USIT_TIEC	IBC Third Interface Echo Multi Processing	NONE	
U-USIT_TIEM	IBC Third Interface Echo Multi Tracking	NO	
U-USIT_TIEP	IBC Third Interface Echo Policy	BFEP	
U-USIT_TIER	IBC Third Interface Echo Receivers	BOTH	
U-USIT_U3WE	Third Interface Echo Window End	110	US
U-USIT_UBTP	USIT Bottom Transducer Position	UNKNOWN	
U-USIT_UFAO	USIT Flexural Attenuation Offset	0	DB/M
U-USIT_UIAP	USIT IBC Answer Product Enabled	SolidLiquidGasMap	
U-USIT_UIST	Ultrasonic IBC Sonde Type	Sub_ibcs_B	
U-USIT_UTAN	USIT Transducer Angles	38_DEG	
USTO	Ultrasonic Time Offset	-2	US
USUB	Ultrasonic Subassembly Identifier	Sub_7_inch	
UWKM	Ultrasonic Working Mode	10DEG_6IN_136UNF_LF	
VCAS	Ultrasonic Transversal Velocity in Casing	51.4	US/F
WLEN	T^3 Processing Length	21.7078	US
ZCAS	Acoustic Impedance of Casing	46.2537	MRAY
ZINI	Initial Estimate of Cement Impedance	-1	MRAY
ZMUD	Acoustic Impedance of Mud	1.7	MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.6	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.3	MRAY
System and Miscellaneous			
BS	Bit Size	8.750	IN
CWEI	Casing Weight	26.00	LB/F
DO	Depth Offset for Playback	0.0	FT
PP	Playback Processing	RECOMPUTE	

Input DLIS Files					
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Output DLIS Files					
DEFAULT	USI_009PUP	FN:8	PRODUCER	23-Apr-2013 16:08	



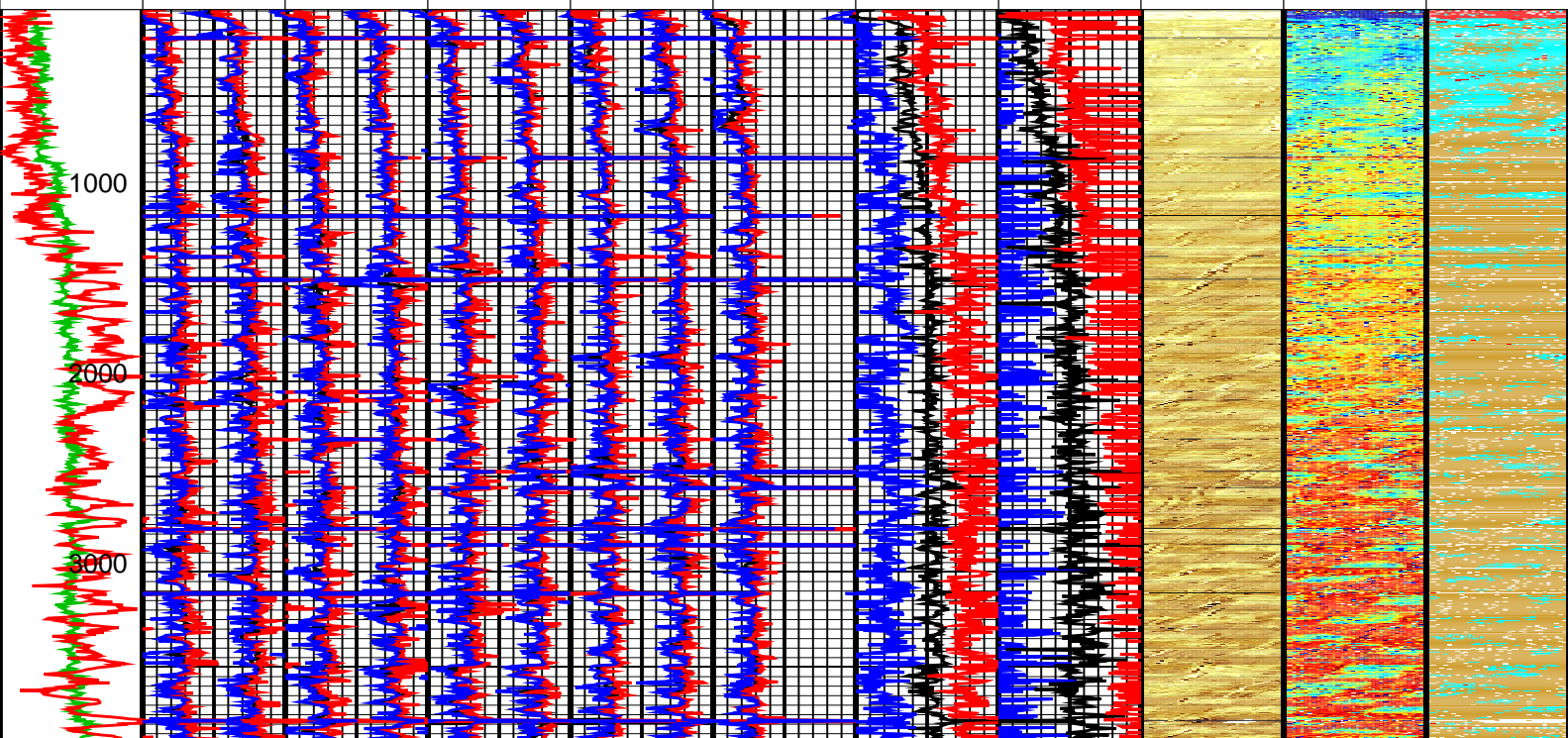
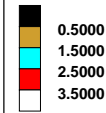
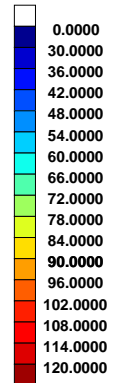
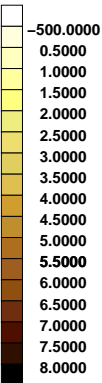
Compressed Goodwin
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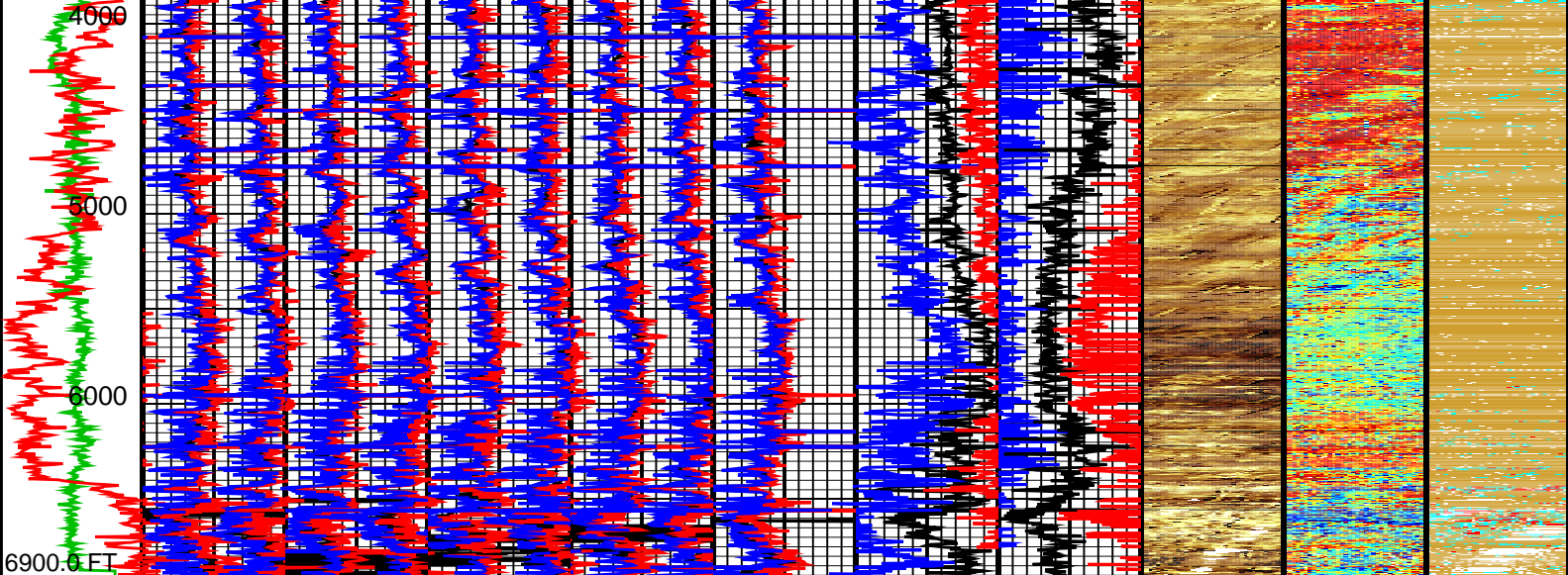
MAXIS Field Log

Company: Noble Energy Inc.				Well: Dyer USX AB35-67-1NH	
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DEFAULT	USI_009PUP	FN:8	PRODUCER	23-Apr-2013 16:08	6904.0 FT 39.5 FT
OP System Version: 19C1-222					
USIT-D	19C1-222	SGT-N	19C1-222		
DTC-H	19C1-222	CAL-Y	19C1-222		

	Minimum Acoustic Impedance #2 (MIN_AI2) (MRAY)		Minimum Acoustic Impedance #4 (MIN_AI4) (MRAY)		Minimum Acoustic Impedance #6 (MIN_AI6) (MRAY)		Minimum Acoustic Impedance #8 (MIN_AI8) (MRAY)	
	-7.5	7.5	-7.5	7.5	-7.5	7.5	-7.5	7.5
	Minimum Acoustic Impedance		Minimum Acoustic Impedance		Minimum Acoustic Impedance		Minimum Acoustic Impedance	

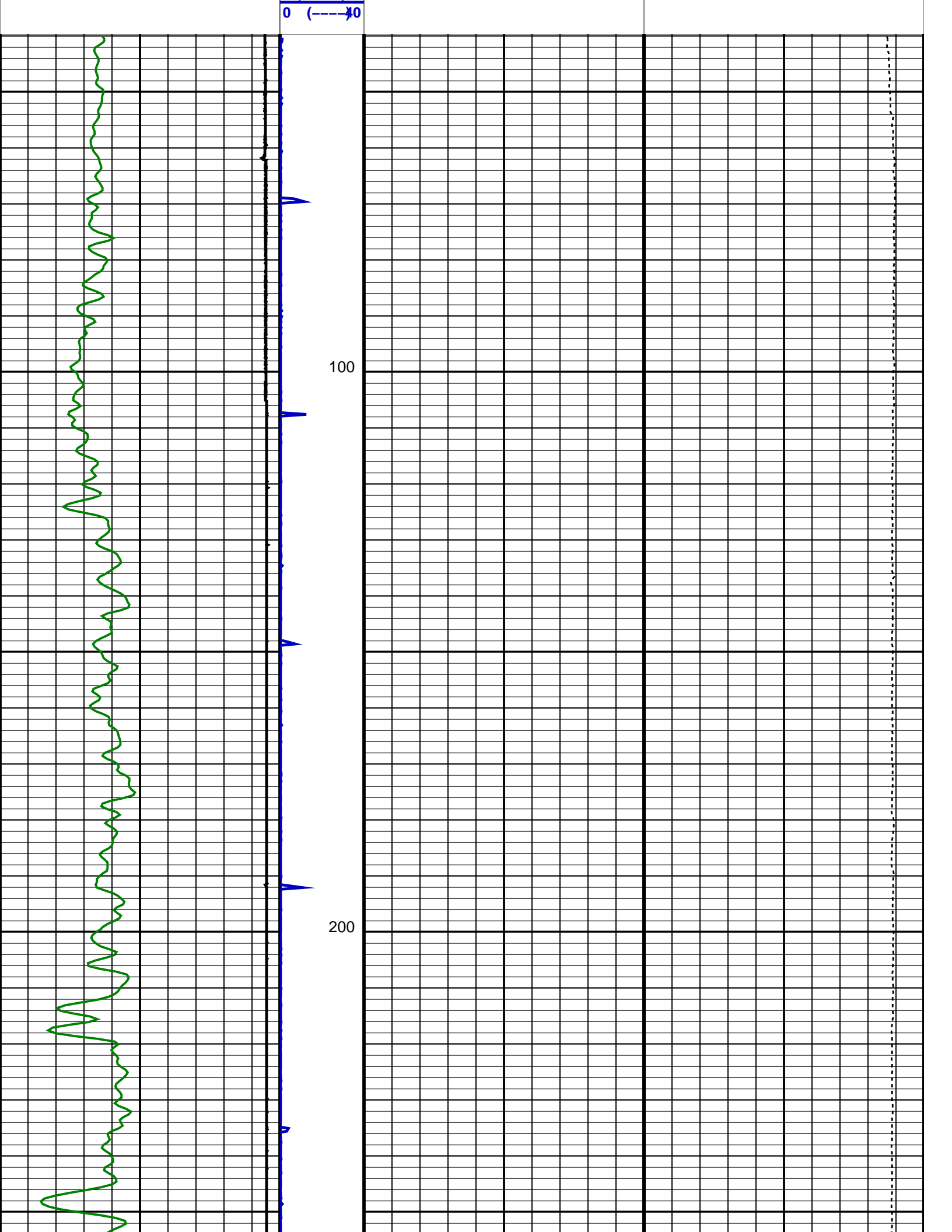
	#1 (MIN_ AI1) (MRAY)	#3 (MIN_ AI3) (MRAY)	#5 (MIN_ AI5) (MRAY)	#7 (MIN_ AI7) (MRAY)			
	0 15	0 15	0 15	0 15			
	Maximum Acoustic Impedance #2 (MAX_ AI2) (MRAY)	Maximum Acoustic Impedance #4 (MAX_ AI4) (MRAY)	Maximum Acoustic Impedance #6 (MAX_ AI6) (MRAY)	Maximum Acoustic Impedance #8 (MAX_ AI8) (MRAY)			
	-7.5 7.5	-7.5 7.5	-7.5 7.5	-7.5 7.5			
	Maximum Acoustic Impedance #1 (MAX_ AI1) (MRAY)	Maximum Acoustic Impedance #3 (MAX_ AI3) (MRAY)	Maximum Acoustic Impedance #5 (MAX_ AI5) (MRAY)	Maximum Acoustic Impedance #7 (MAX_ AI7) (MRAY)	Minimum Acoustic Impedance #9 (MIN_ AI9) (MRAY)	Maximum of AI (AIMX) (MRAY)	Maximum Flexural Attenuation (U-USIT_ UFAX) (DB/M)
	0 15	0 15	0 15	0 15	0 15	0 7.5	40 140
Gamma Ray (GR) (GAPI)	Average Acoustic Impedance #2 (AV_ AI2) (MRAY)	Average Acoustic Impedance #4 (AV_ AI4) (MRAY)	Average Acoustic Impedance #6 (AV_ AI6) (MRAY)	Average Acoustic Impedance #8 (AV_ AI8) (MRAY)	Maximum Acoustic Impedance #9 (MAX_ AI9) (MRAY)	Minimum of AI (AIMN) (MRAY)	Average Flexural Attenuation (U-USIT_ UFAV) (DB/M)
0 150	-7.5 7.5	-7.5 7.5	-7.5 7.5	-7.5 7.5	0 15	0 7.5	40 140
Eccent. (ECCE)	Average Acoustic Impedance #1 (AV_ AI1) (MRAY)	Average Acoustic Impedance #3 (AV_ AI3) (MRAY)	Average Acoustic Impedance #5 (AV_ AI5) (MRAY)	Average Acoustic Impedance #7 (AV_ AI7) (MRAY)	Average Acoustic Impedance #9 (AV_ AI9) (MRAY)	Average of AI (AIAV) (MRAY)	Minimum Flexural Attenuation (U-USIT_ UFAN) (DB/M)
0 (IN) 0.5	0 15	0 15	0 15	0 15	0 15	0 7.5	40 140

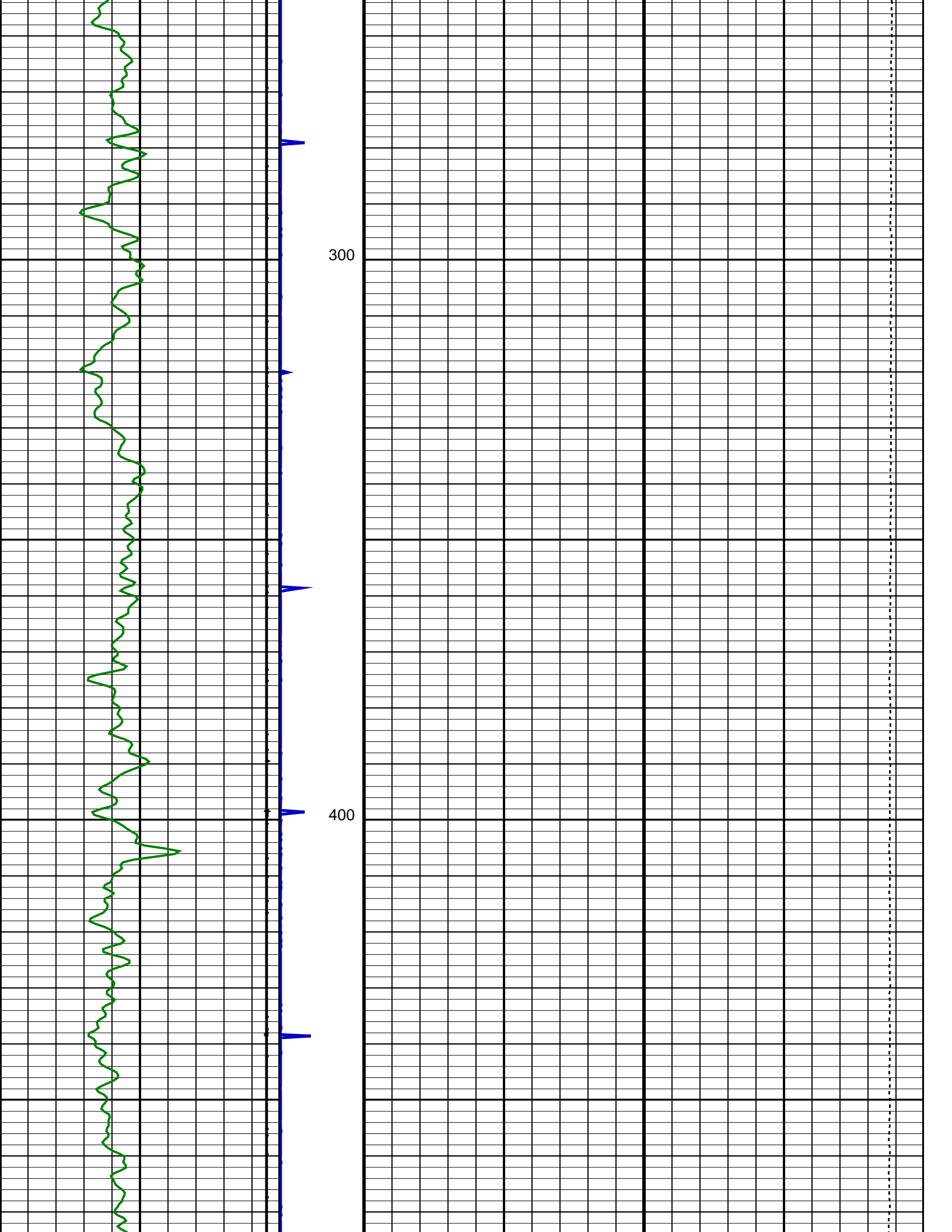


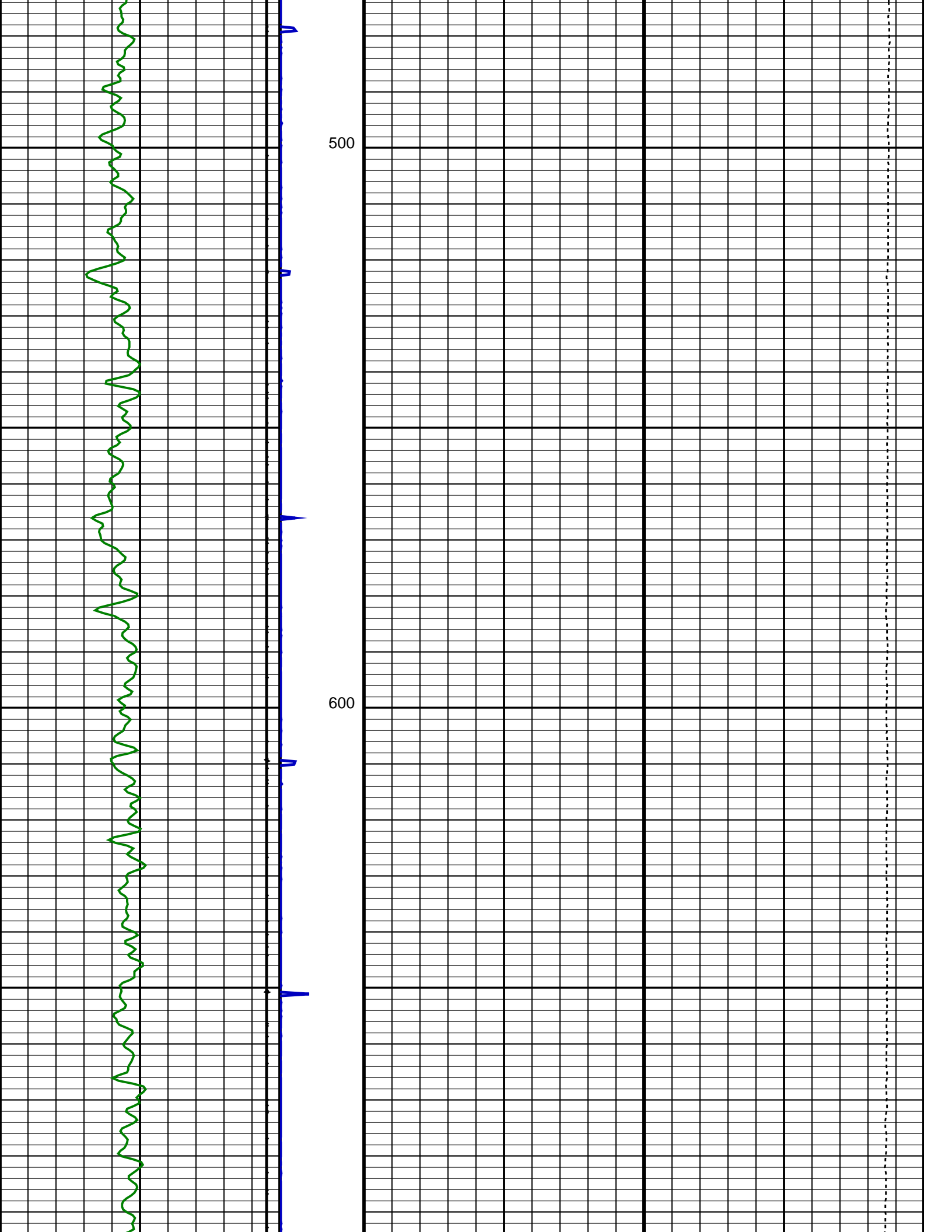


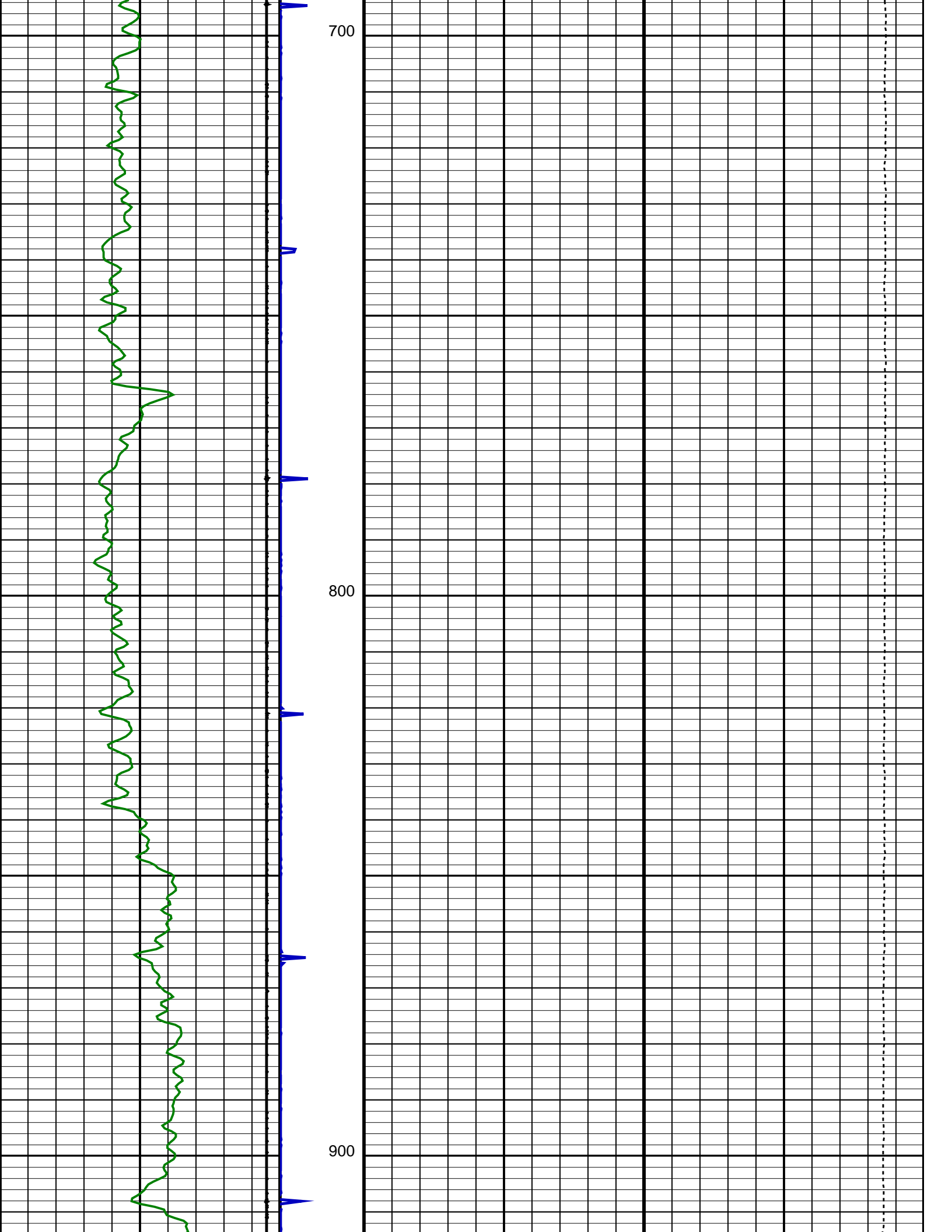
--TDL-- <div>Eccent. (ECCE)</div> <div>0 (IN) 0.5</div>	Average Acoustic Impedance #1 (AV_ AI1) (MRAY)	Average Acoustic Impedance #3 (AV_ AI3) (MRAY)	Average Acoustic Impedance #5 (AV_ AI5) (MRAY)	Average Acoustic Impedance #7 (AV_ AI7) (MRAY)	Average Acoustic Impedance #9 (AV_ AI9) (MRAY)	Average of AI (AIAV) (MRAY)	Minimum Flexural Attenuation (U-USIT_ UFAN) (DB/M)	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>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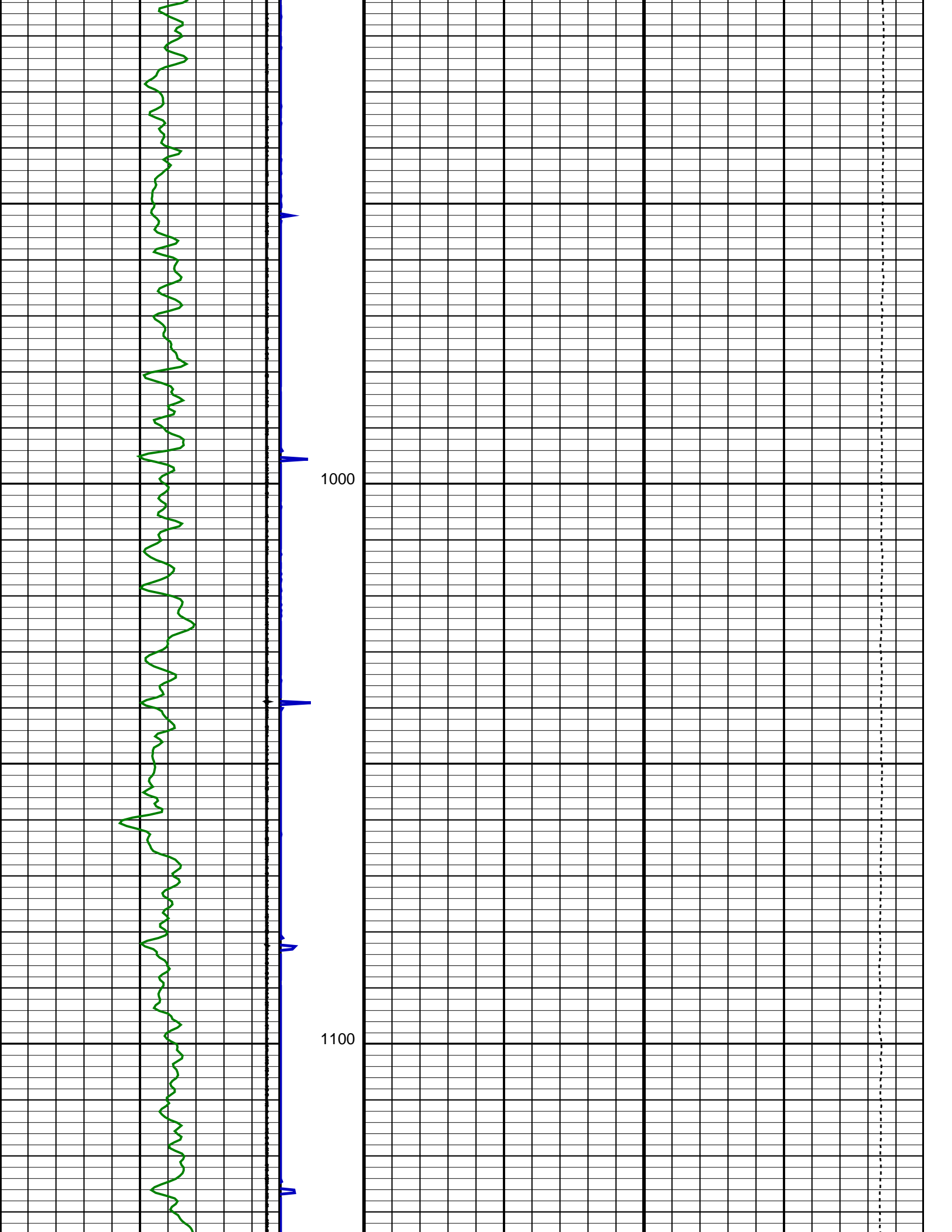
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	-7.57.5	-7.57.5	-7.57.5	-7.57.5	
Format: IBC Goodwin Compressed Vertical Scale: 0.1" per 100' Graphics File Created: 23-Apr-2013 16:08					
OP System Version: 19C1-222					
USIT-D	19C1-222		SGT-N	19C1-222	
DTC-H	19C1-222		CAL-Y	19C1-222	
All USI Images are outside views					
USI : LOW Frequency Compression Mode Used For Logging. Recommended casing thickness range for optimum cement impedance measurement : 0.27 to 0.6 IN.					
Input DLIS Files					
	USI_029PUP		FN:28	23-Apr-2013 12:38	6904.0 FT 39.5 FT
Output DLIS Files					
DEFAULT	USI_009PUP		FN:8	PRODUCER	23-Apr-2013 16:08
<div> <div>Schlumberger</div> <div>Correlation Log 5"=100'</div> </div> <div>MAXIS Field Log</div>					
Company: Noble Energy Inc. Well: Dyer USX AB35-67-1NH					
Input DLIS Files					
	USI_029PUP		FN:28	23-Apr-2013 12:38	6904.0 FT 39.5 FT
Output DLIS Files					
DEFAULT	USI_009PUP		FN:8	PRODUCER	23-Apr-2013 16:08 6904.0 FT 39.5 FT
OP System Version: 19C1-222					
USIT-D	19C1-222		SGT-N	19C1-222	
DTC-H	19C1-222		CAL-Y	19C1-222	
Casing Collar Locator (CCL)					
-20	(----	1			
Gamma Ray (GR)		USIT COLLAR LOCATOR (CCLU)		Tension (TENS)	
0	(GAPI)	100		5000	(LBF) 0

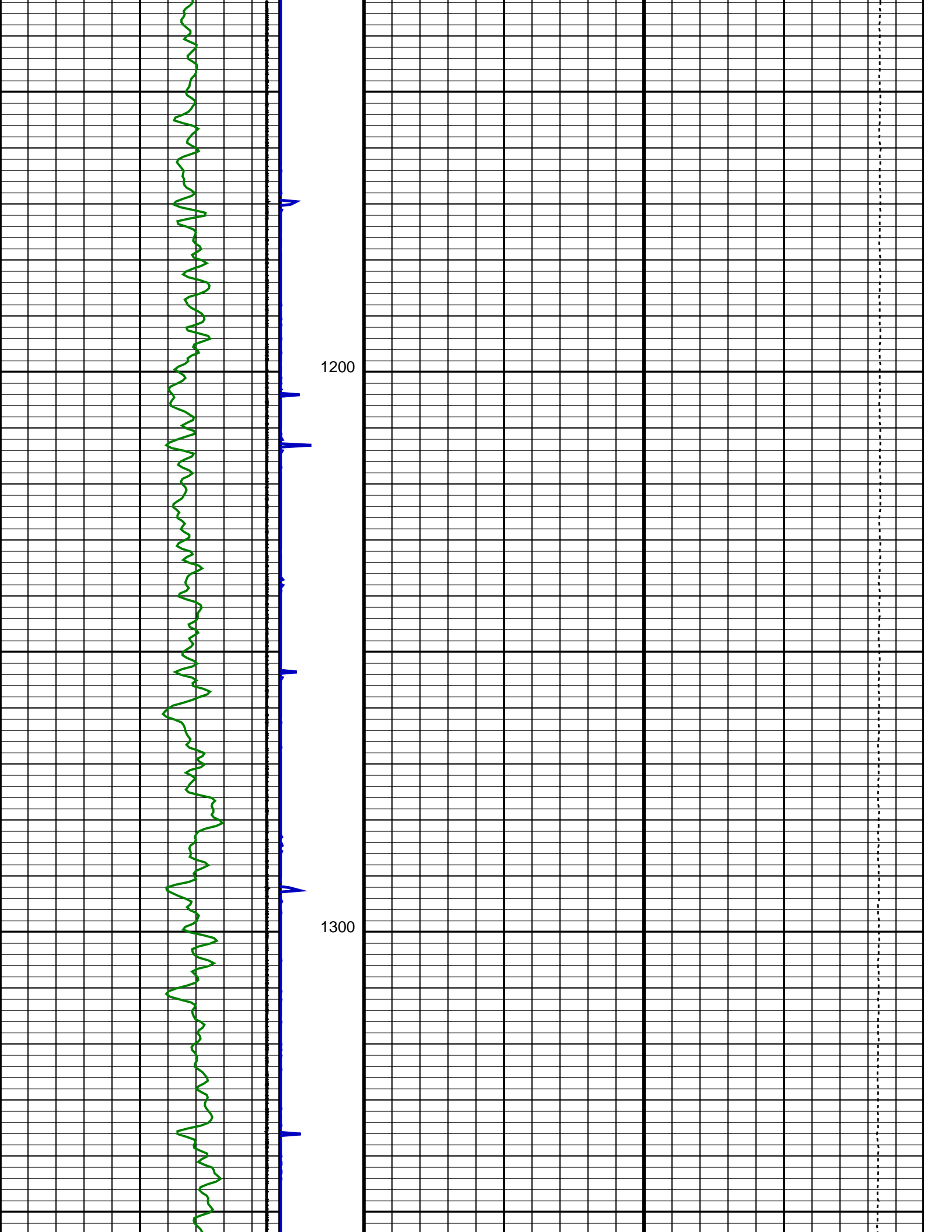


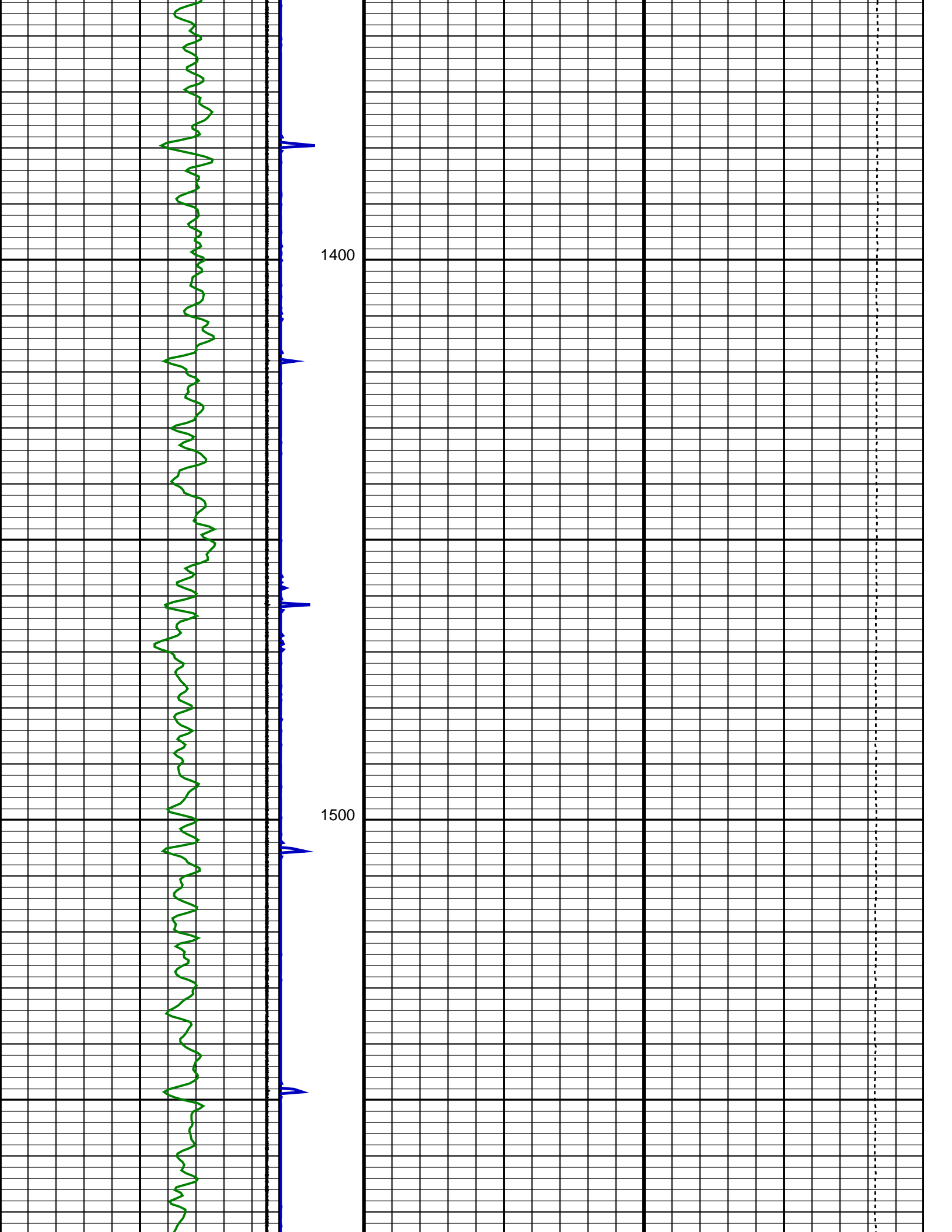


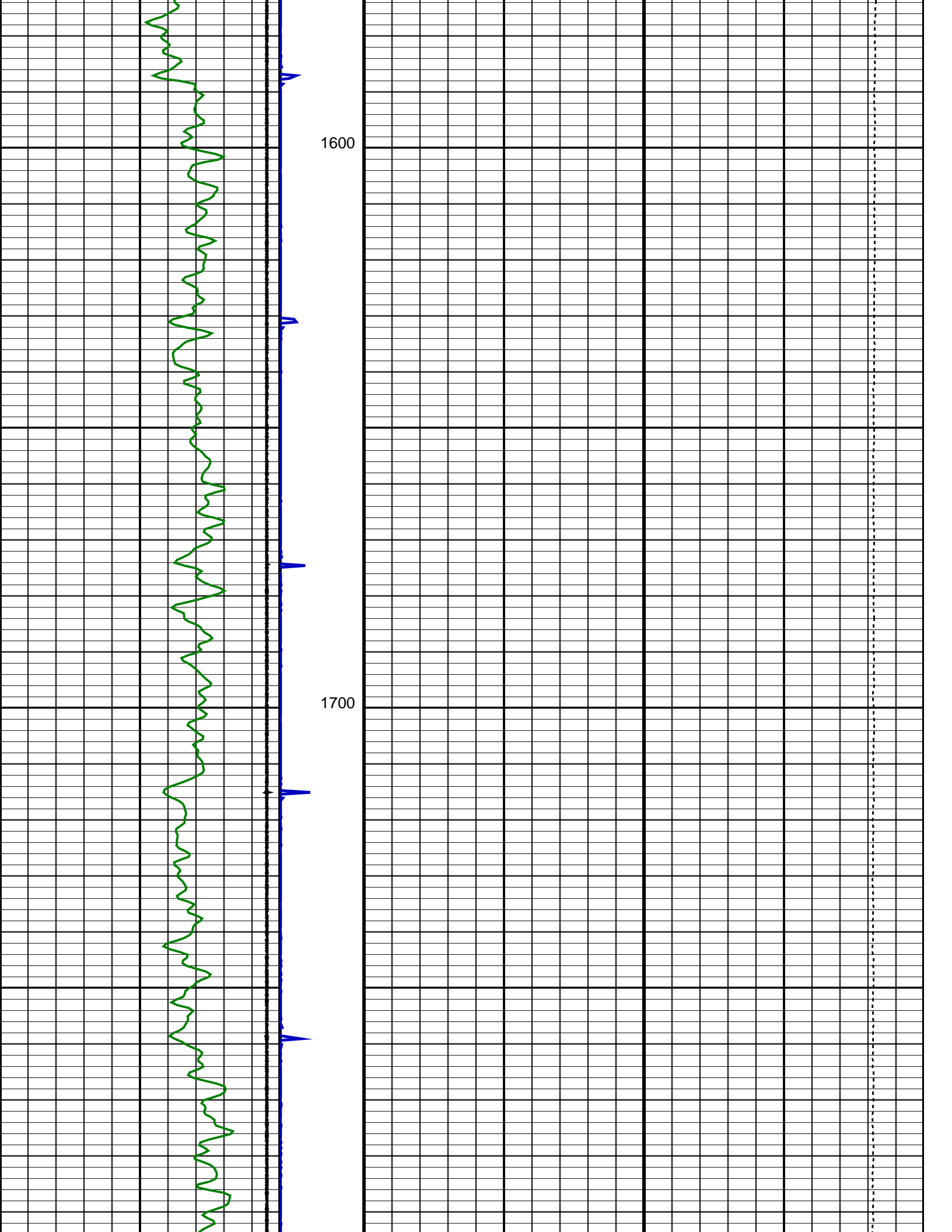


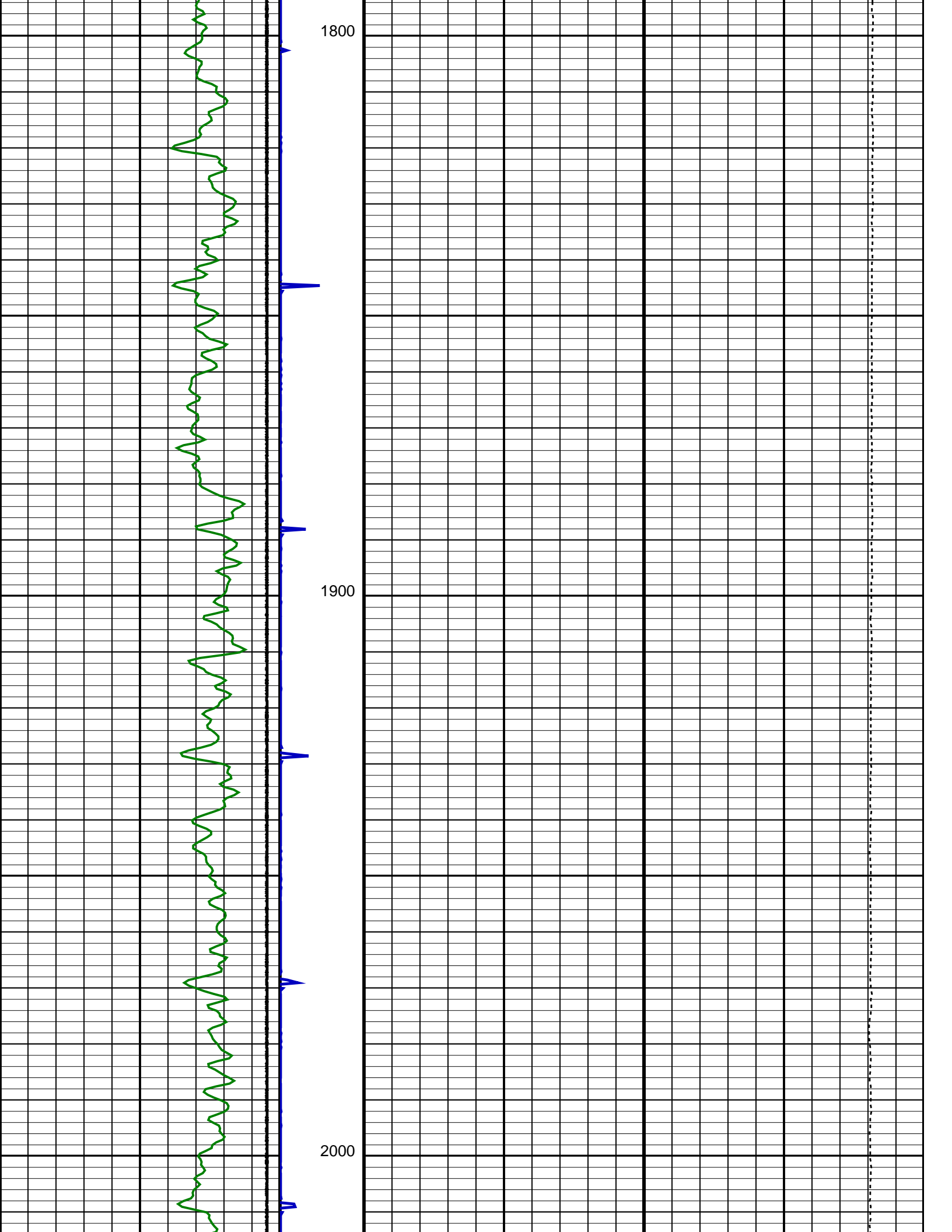


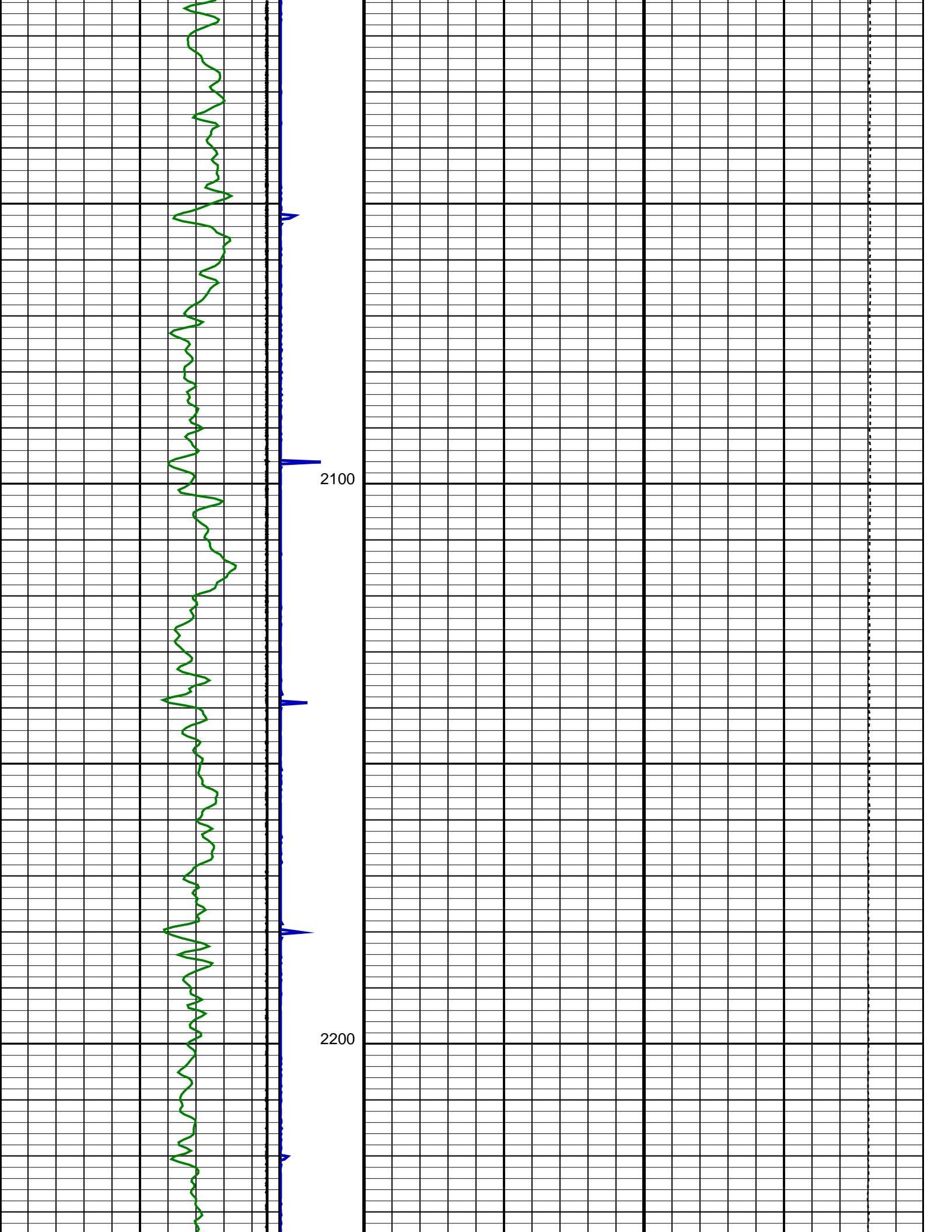


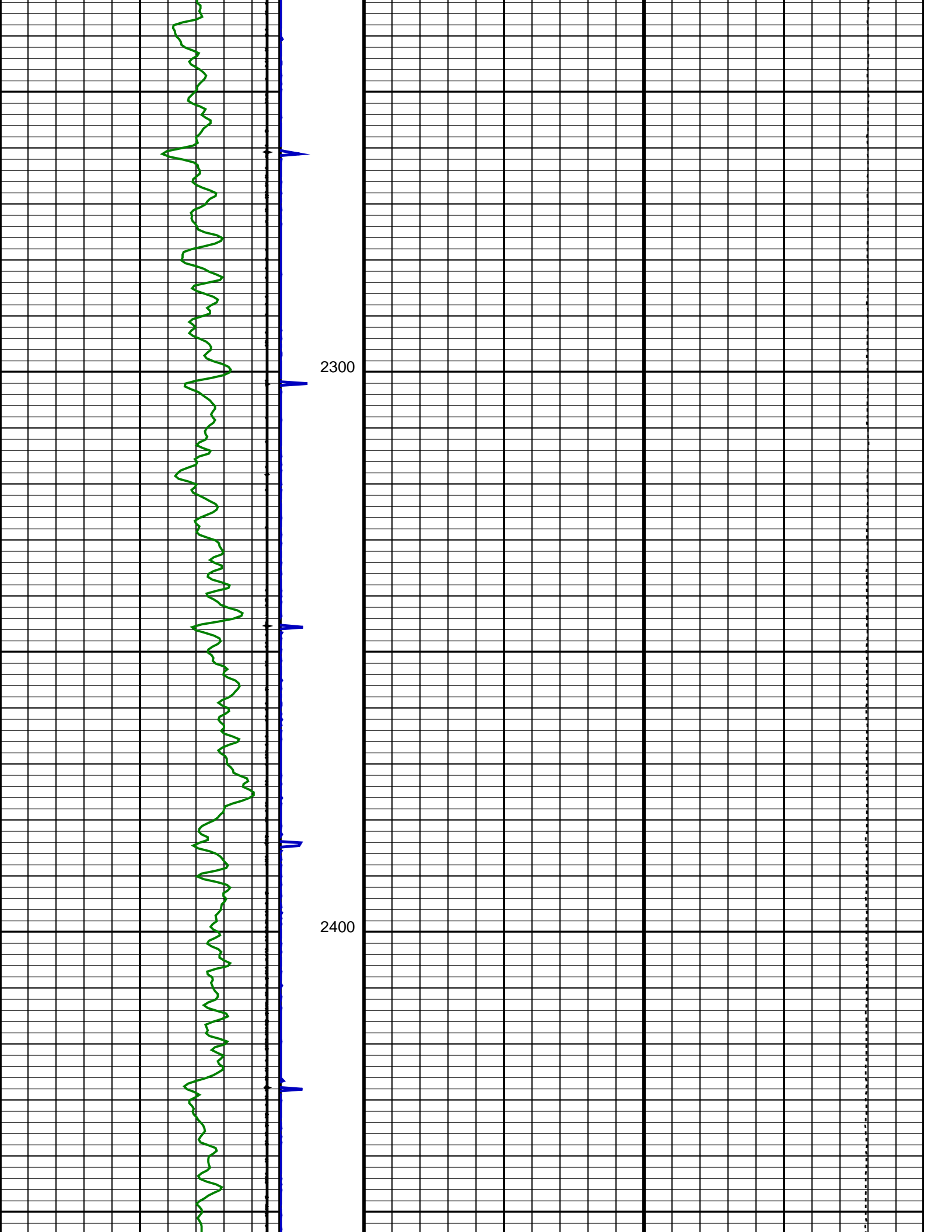


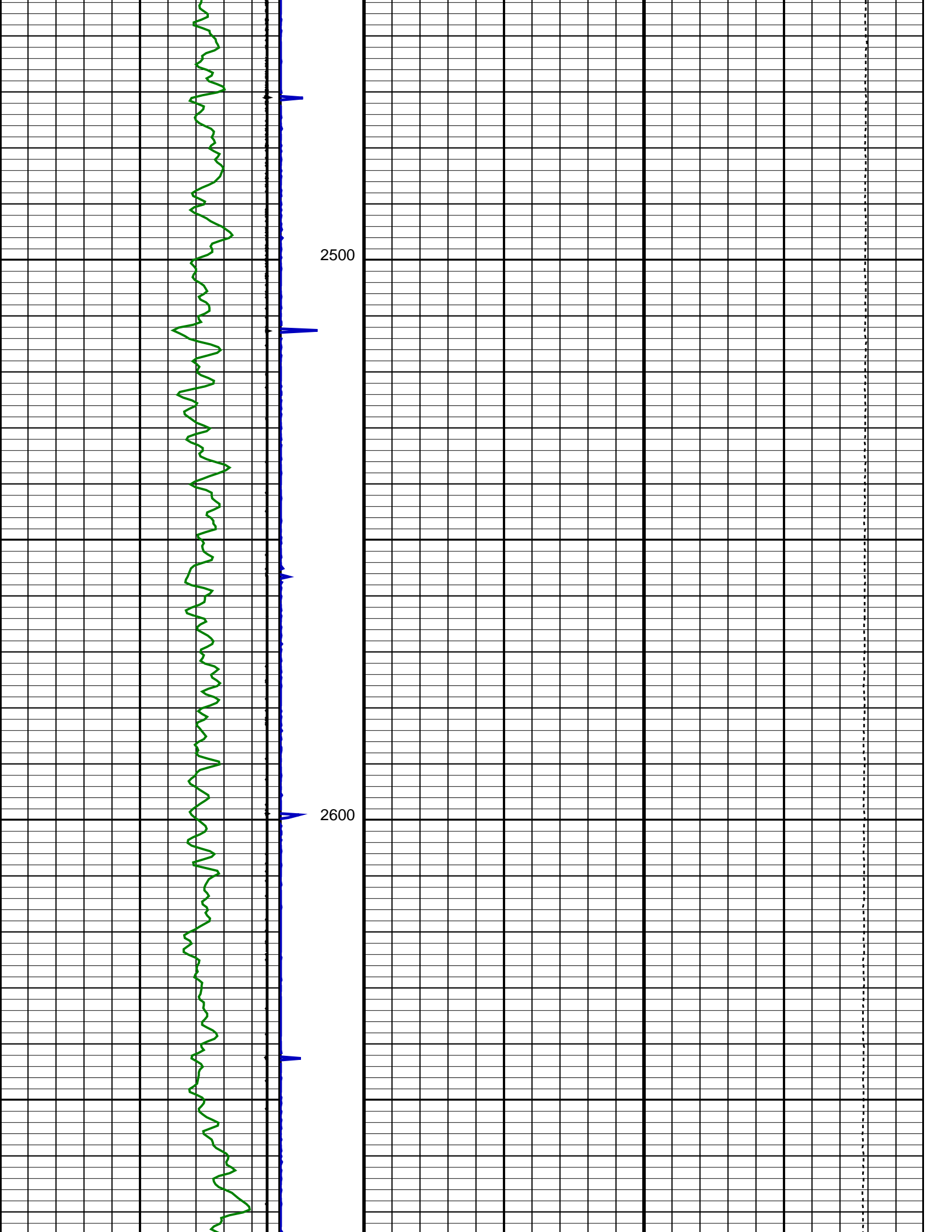


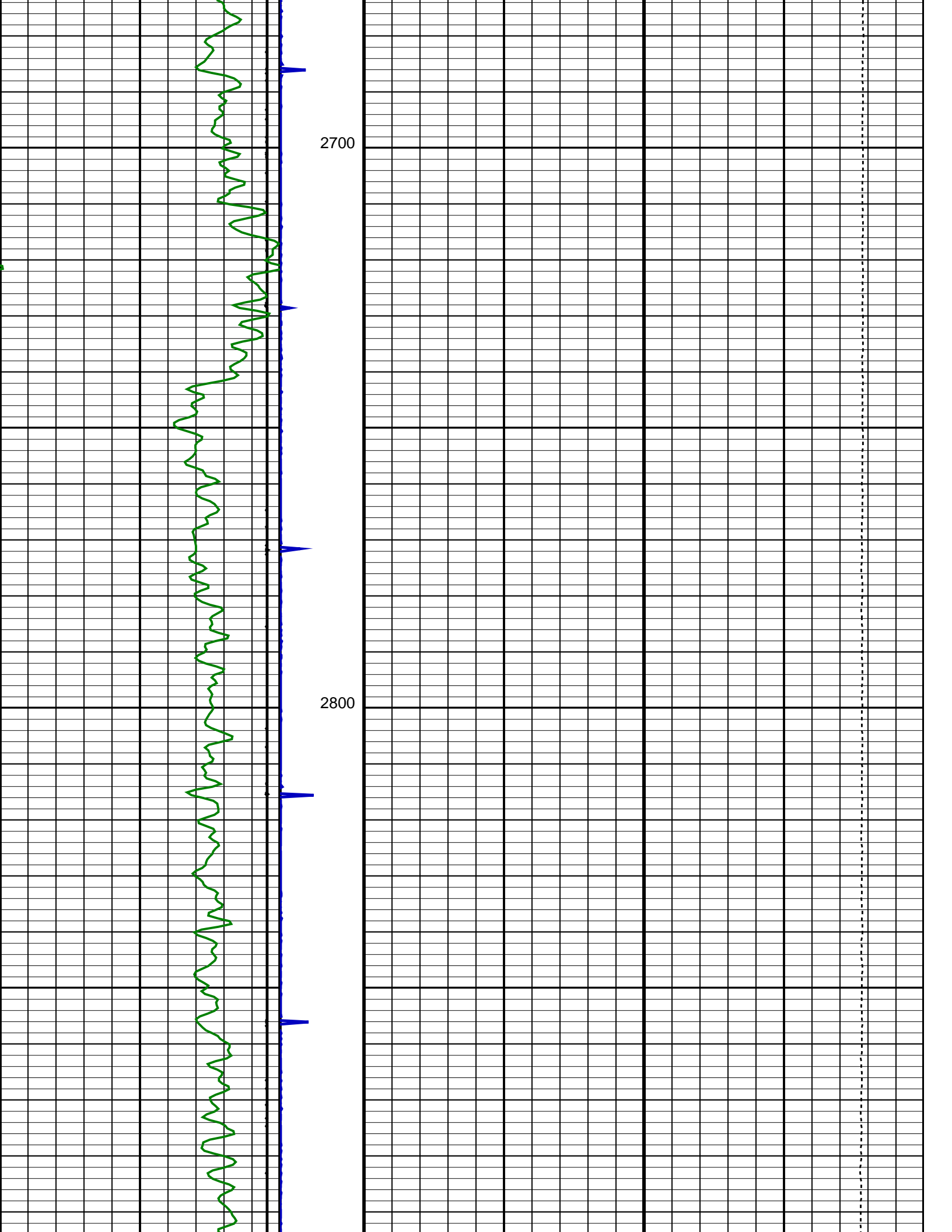


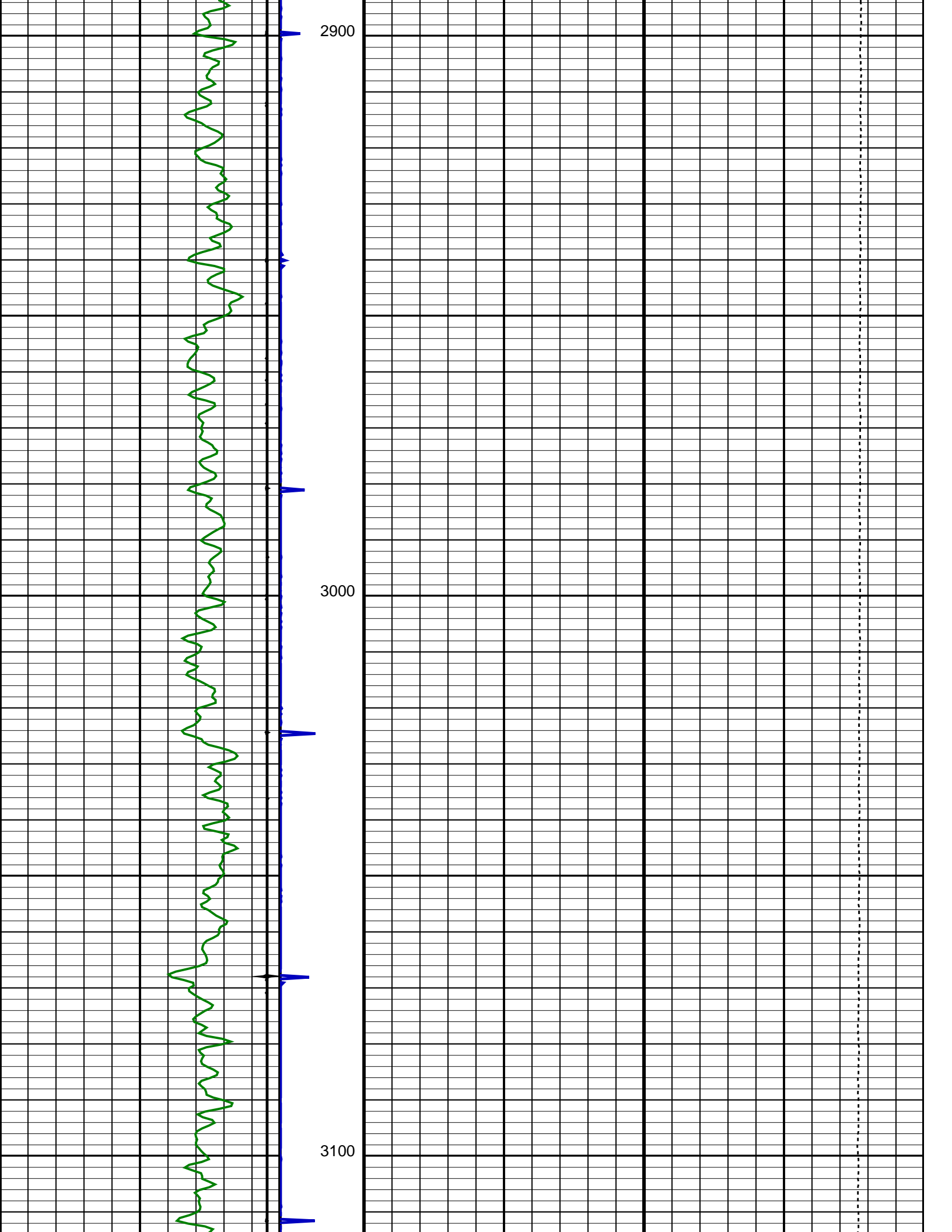


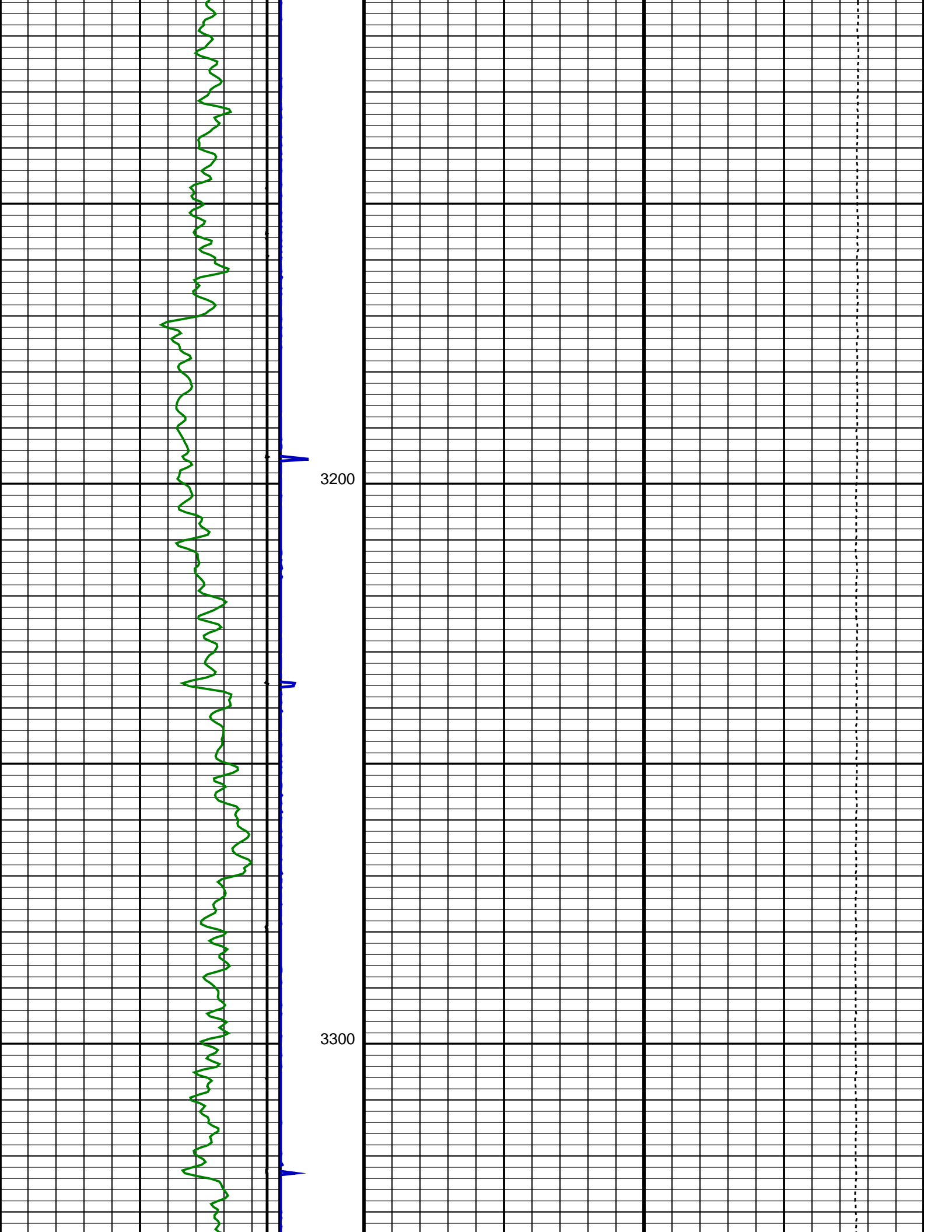


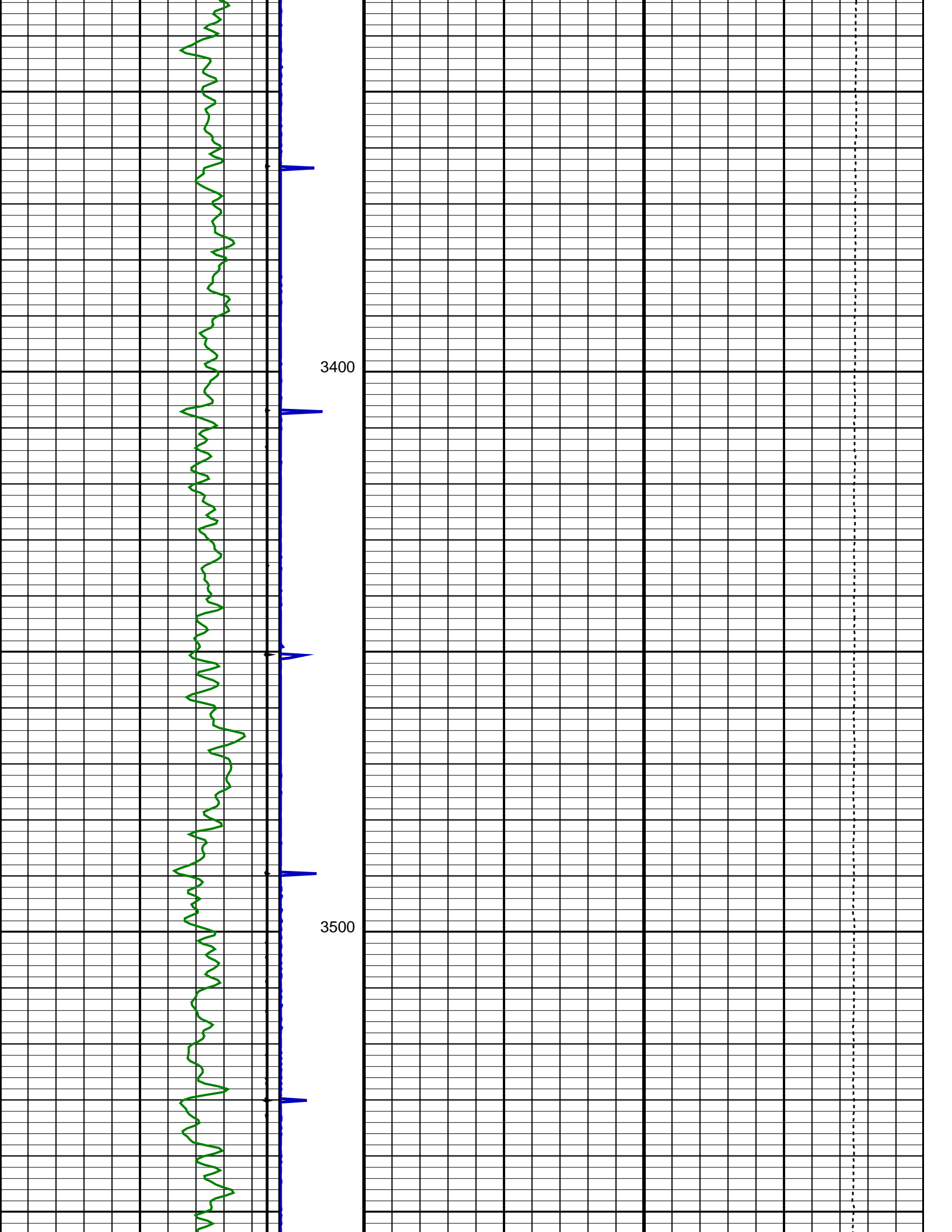


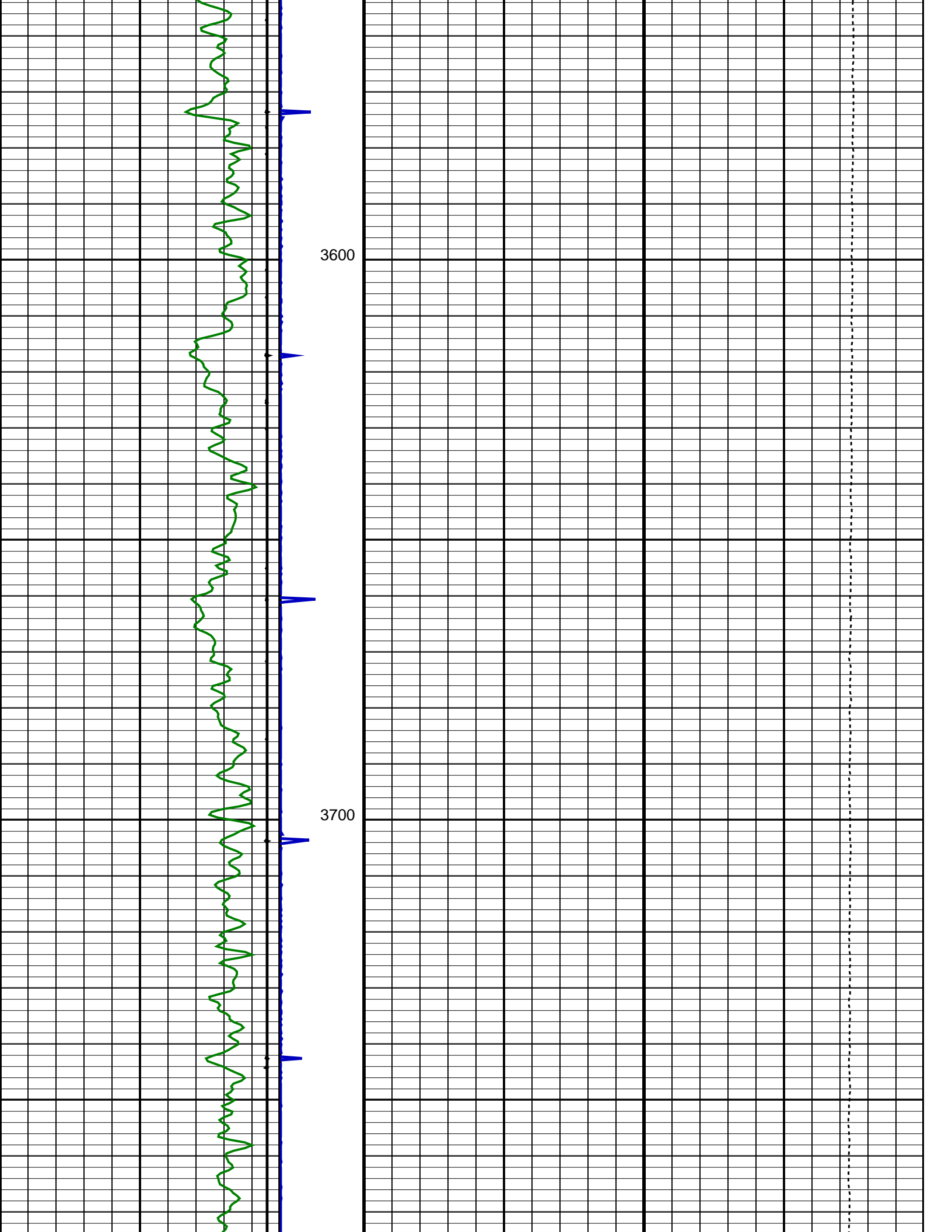


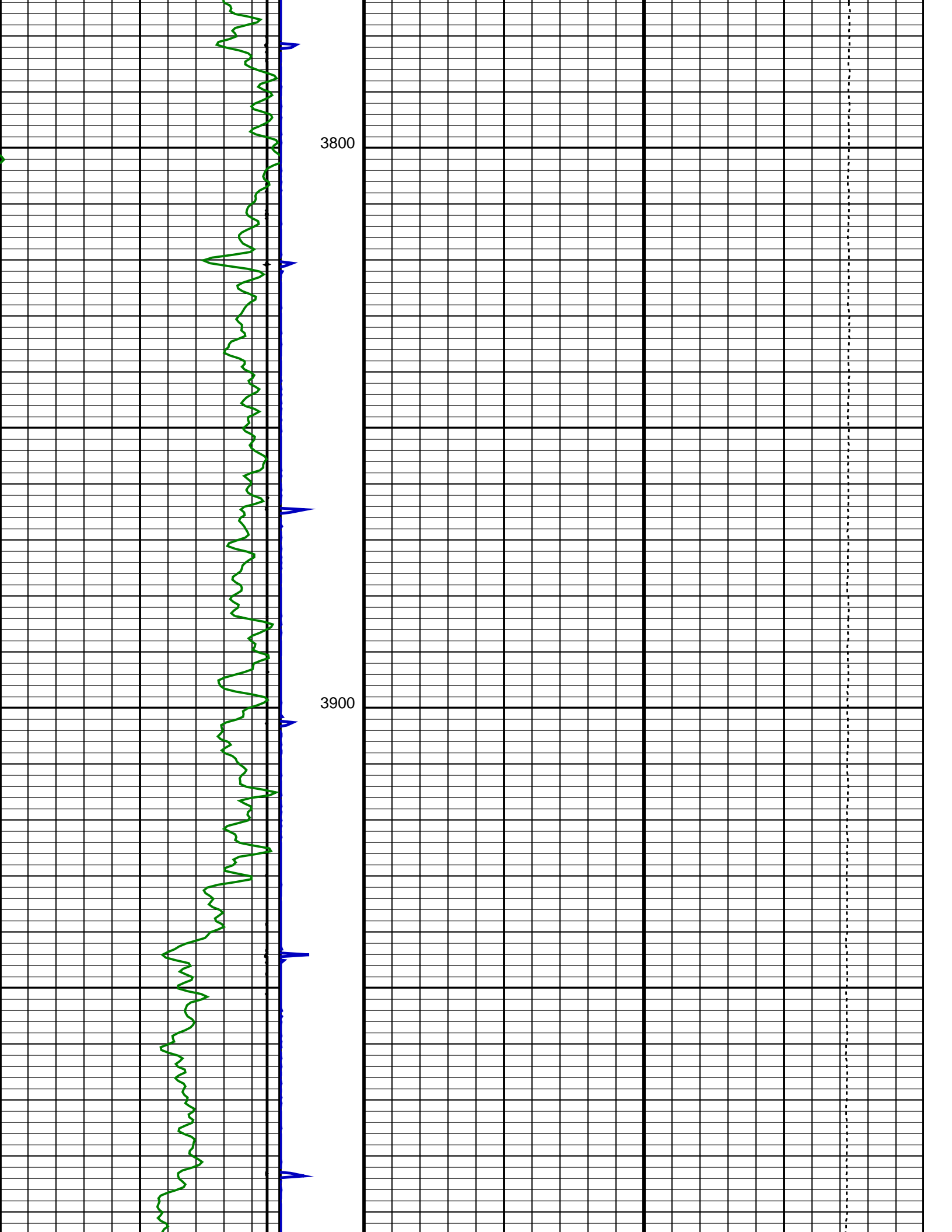


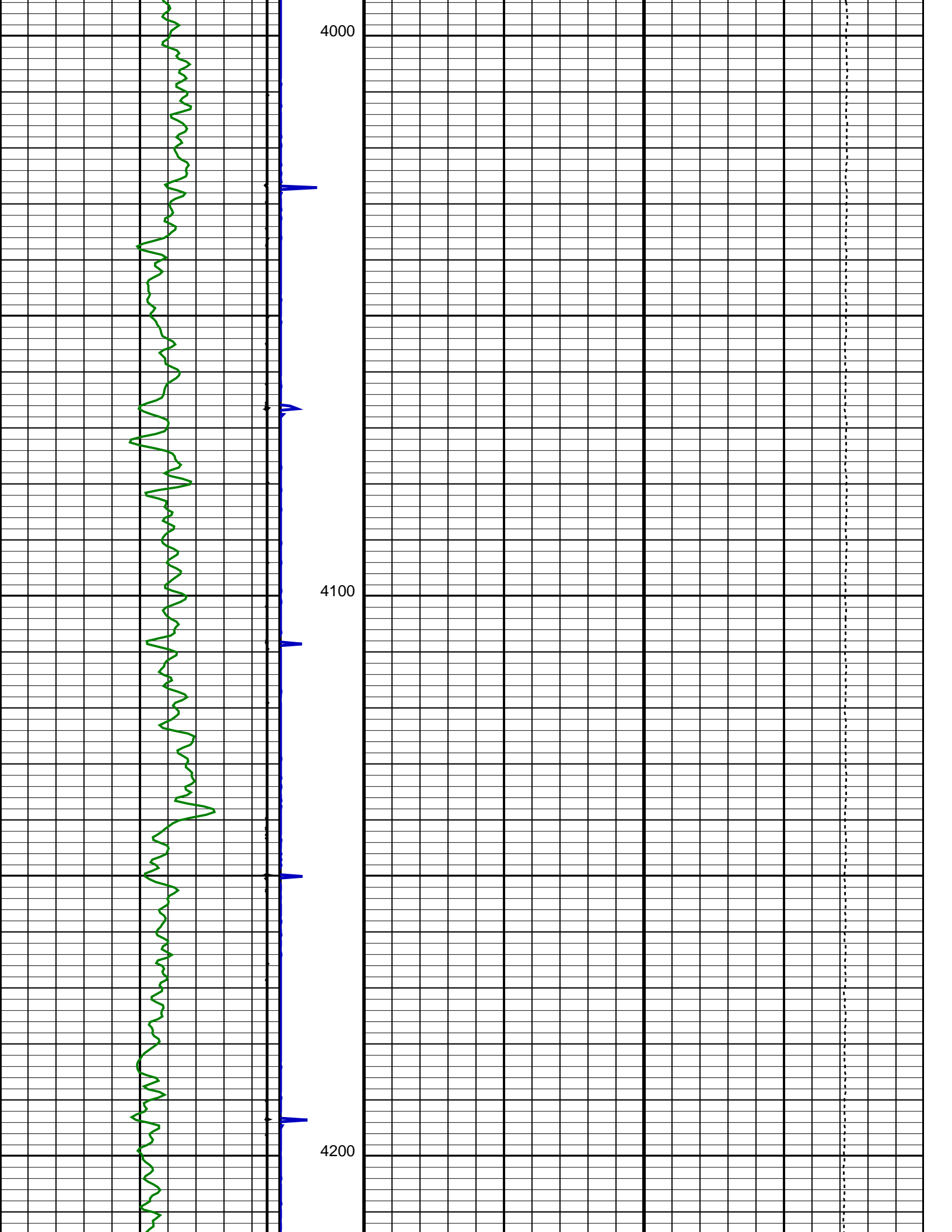


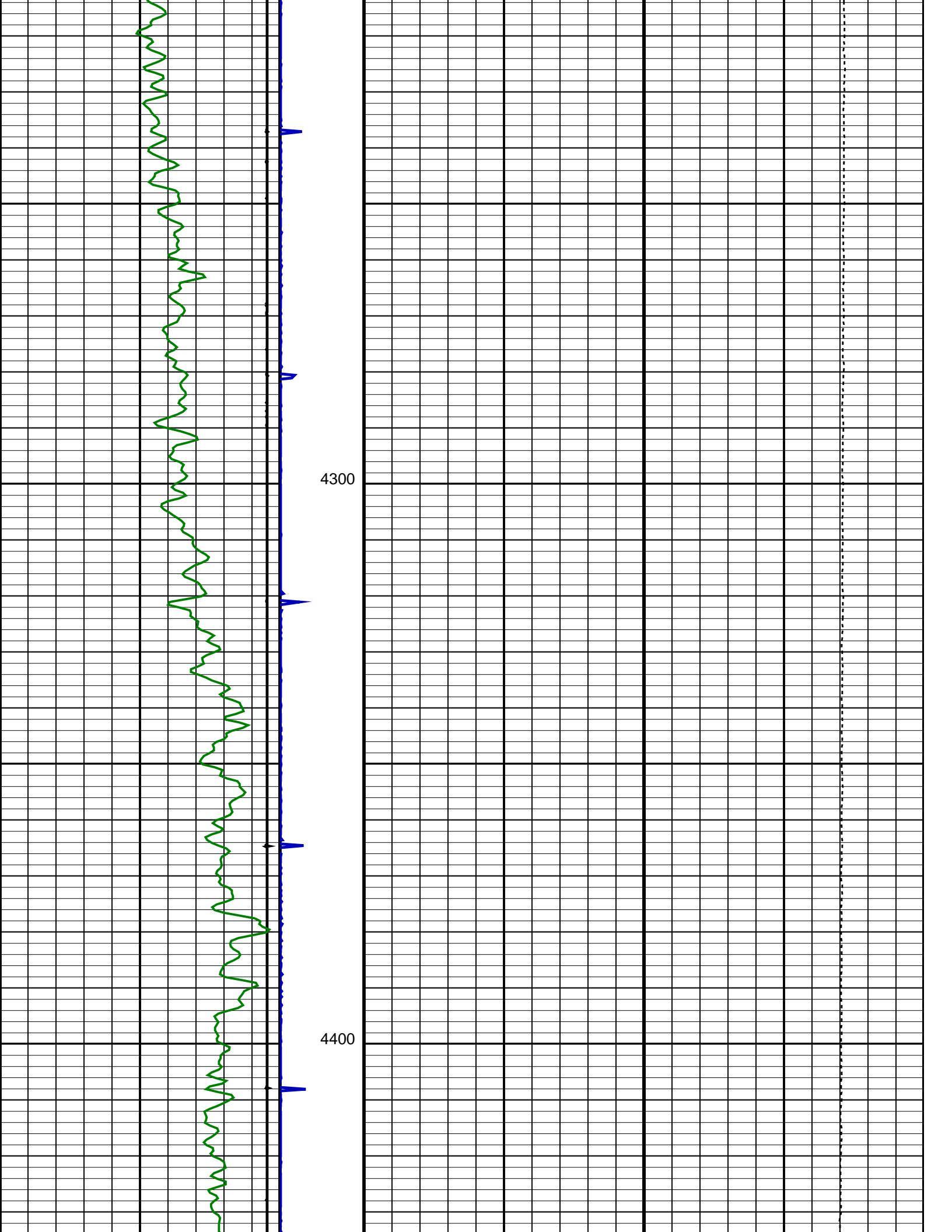


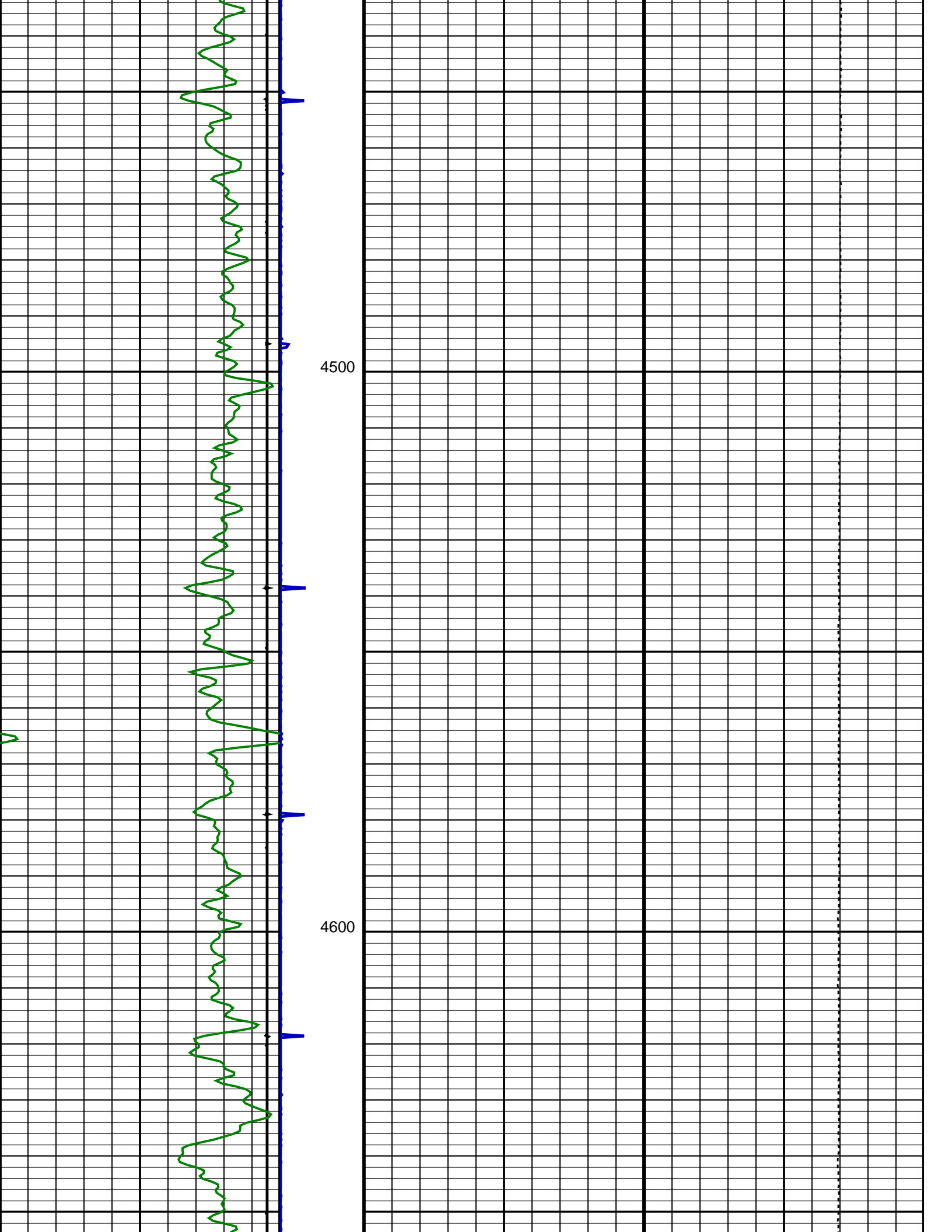


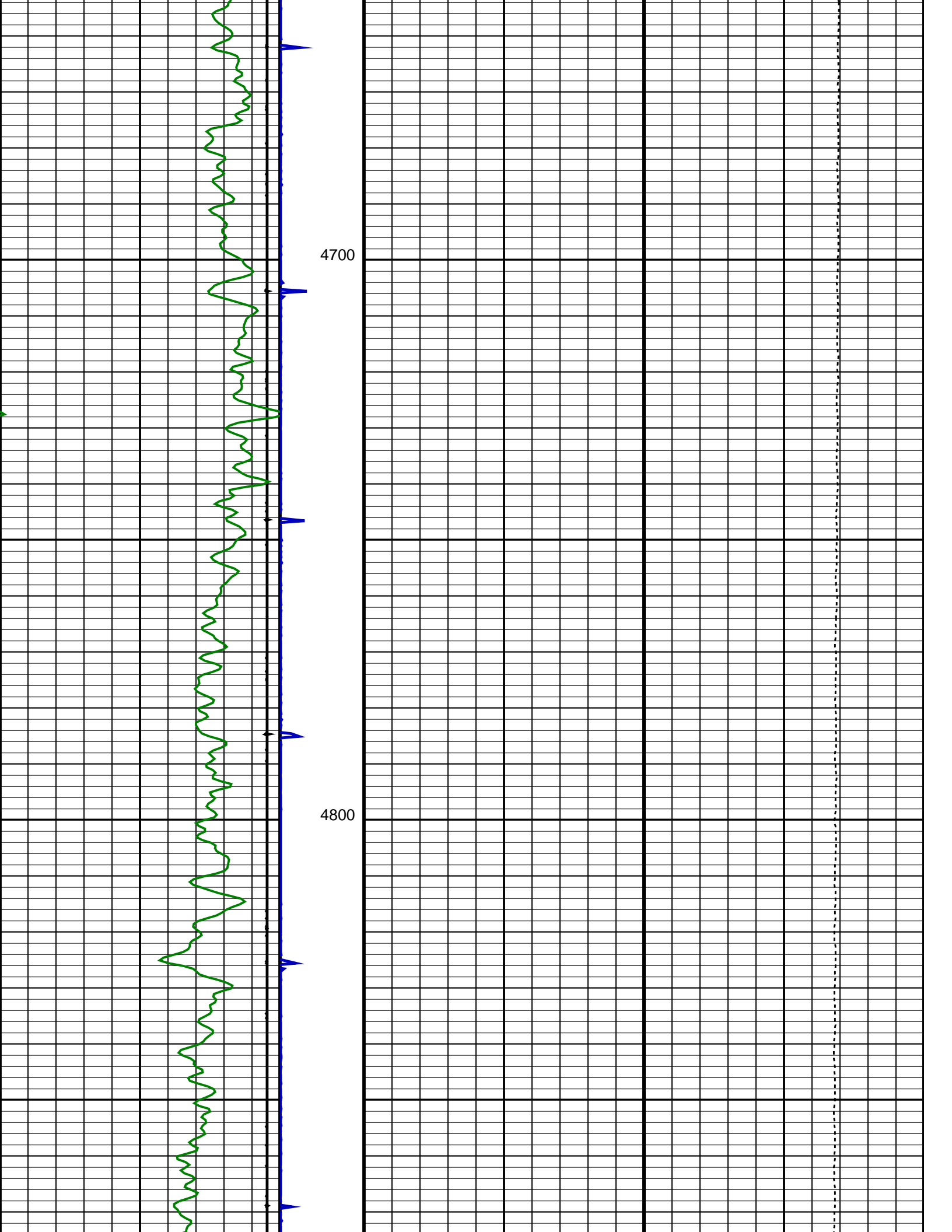


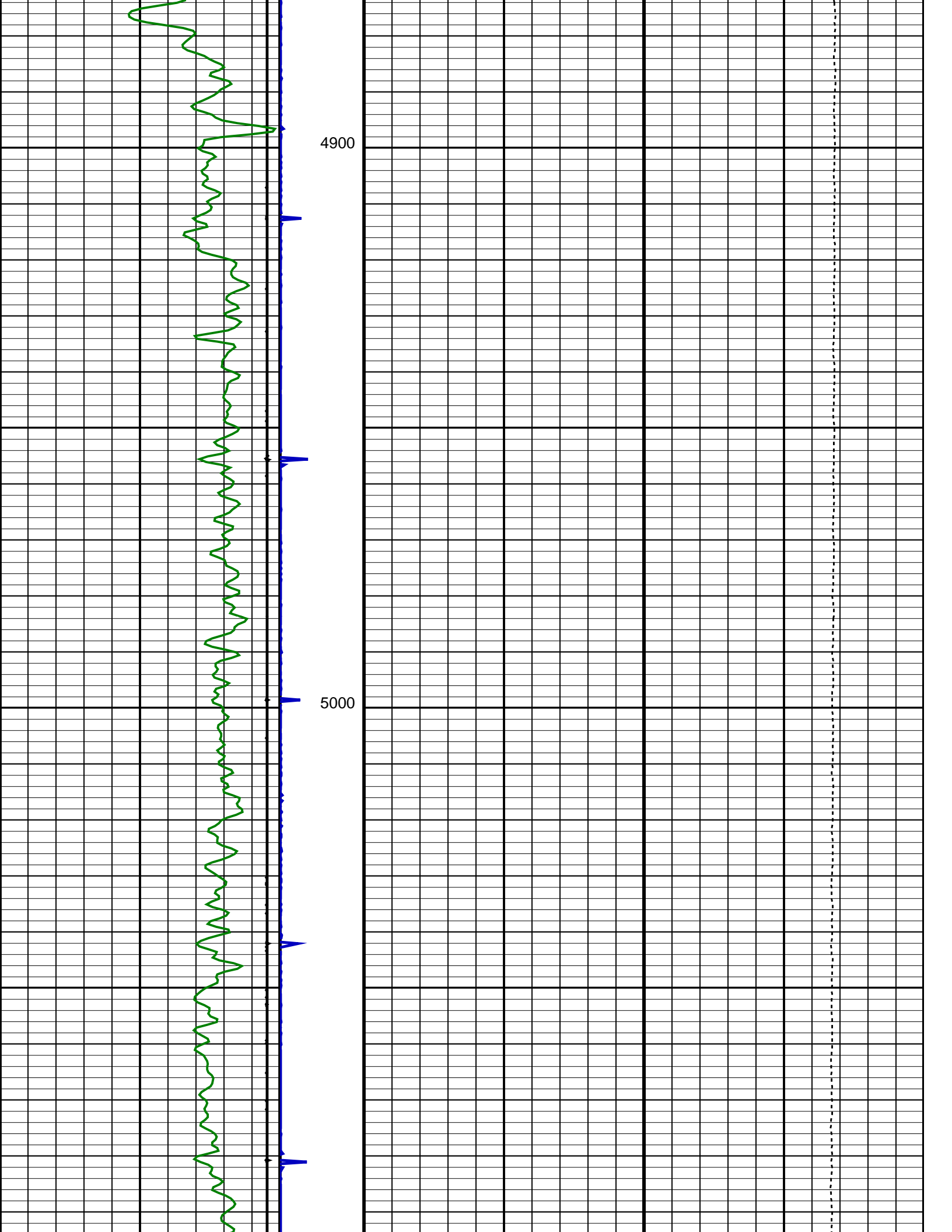


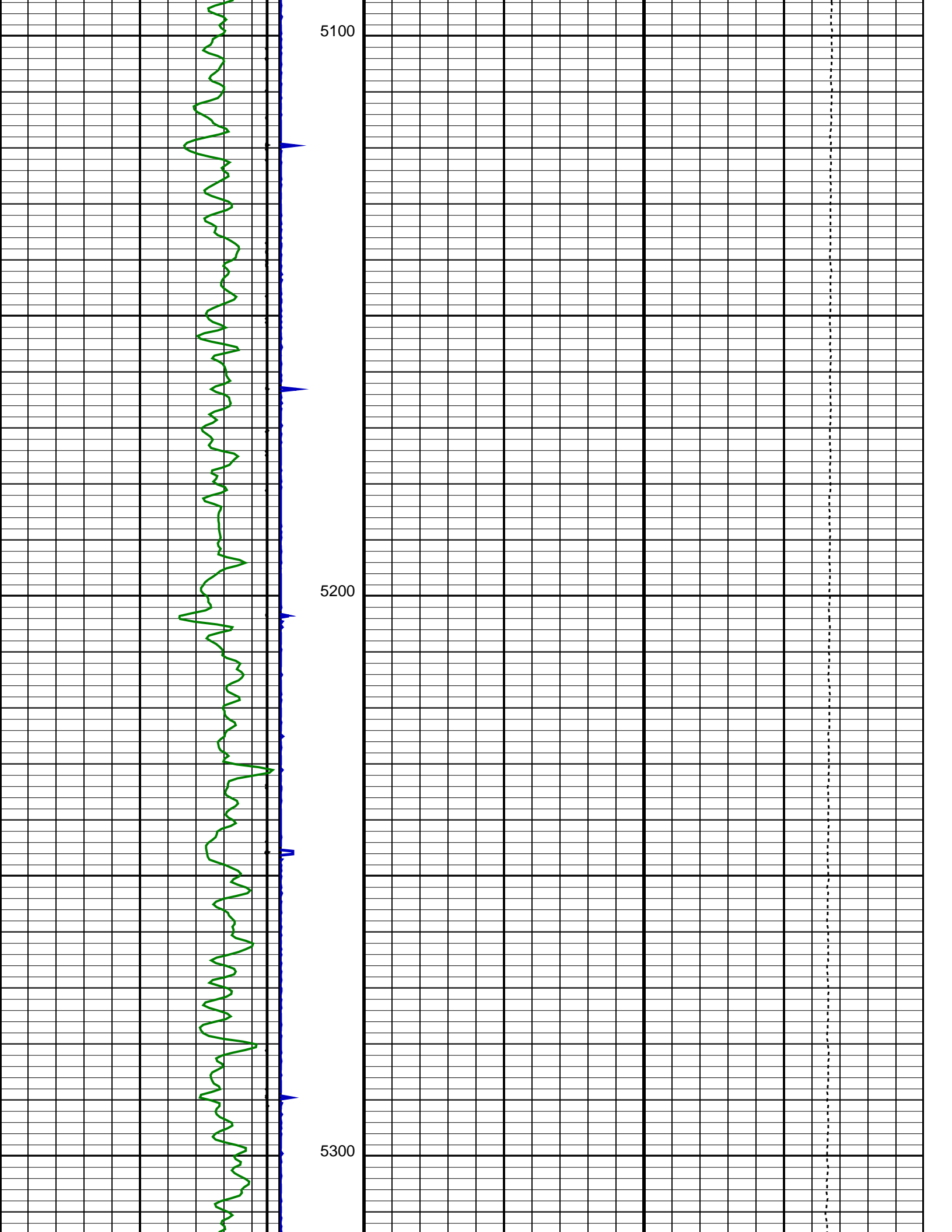


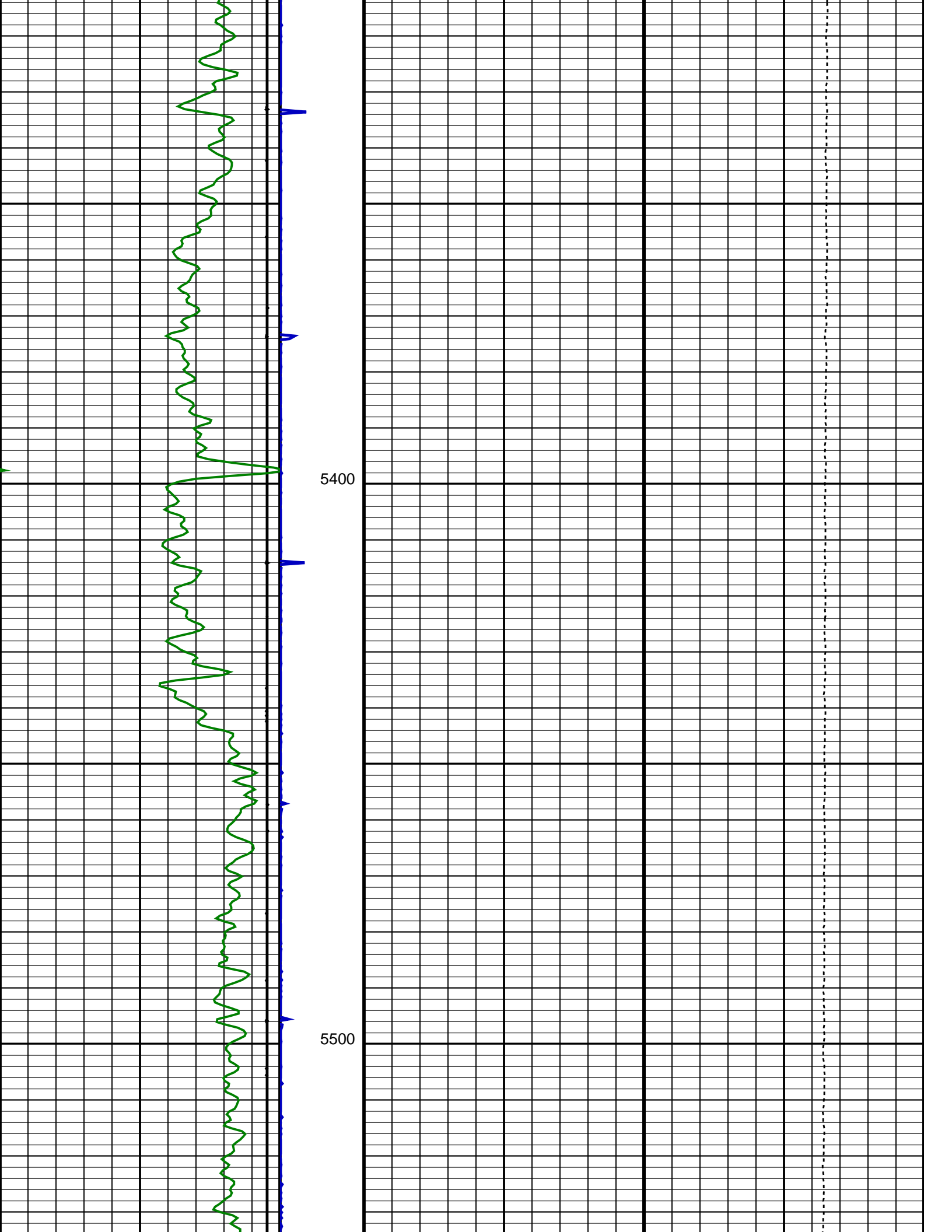


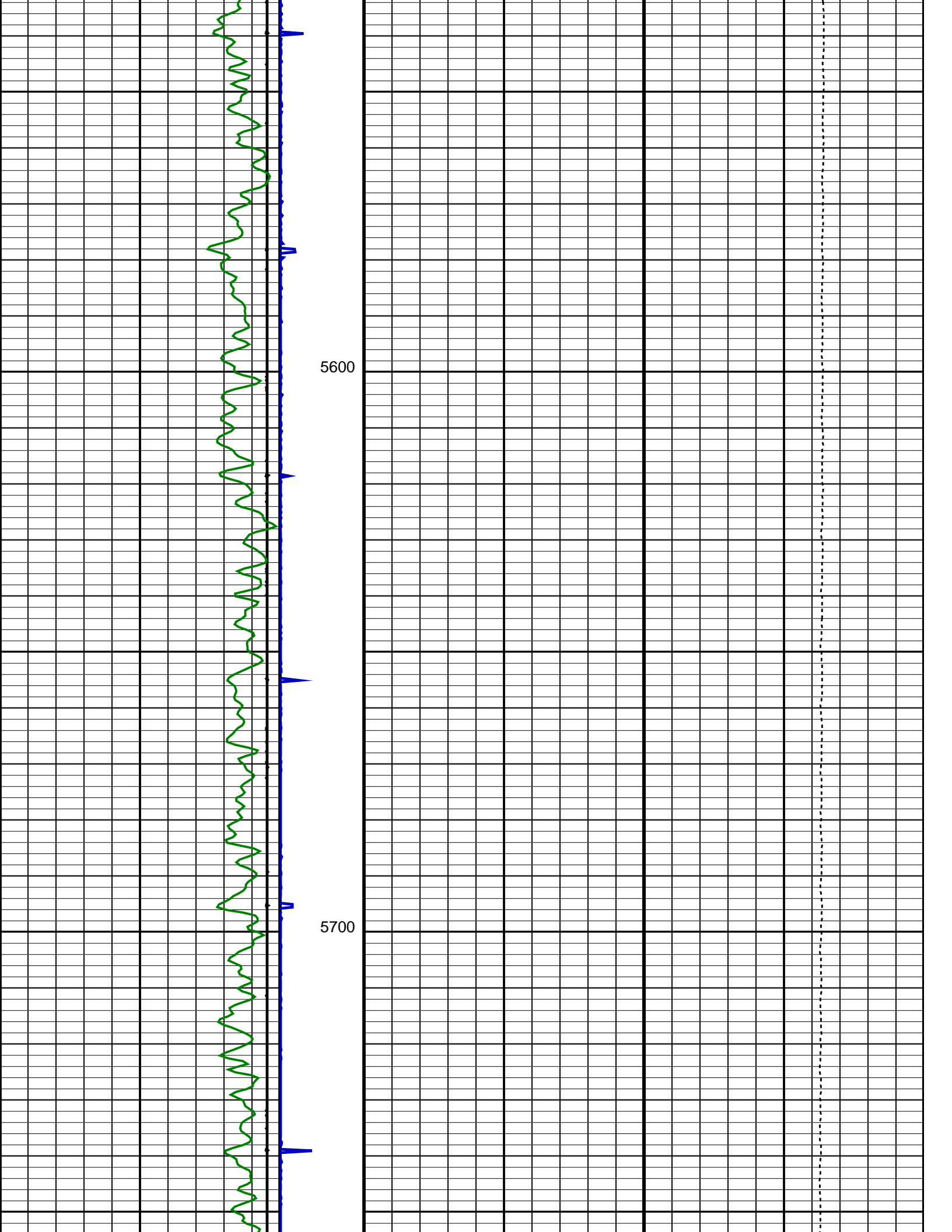


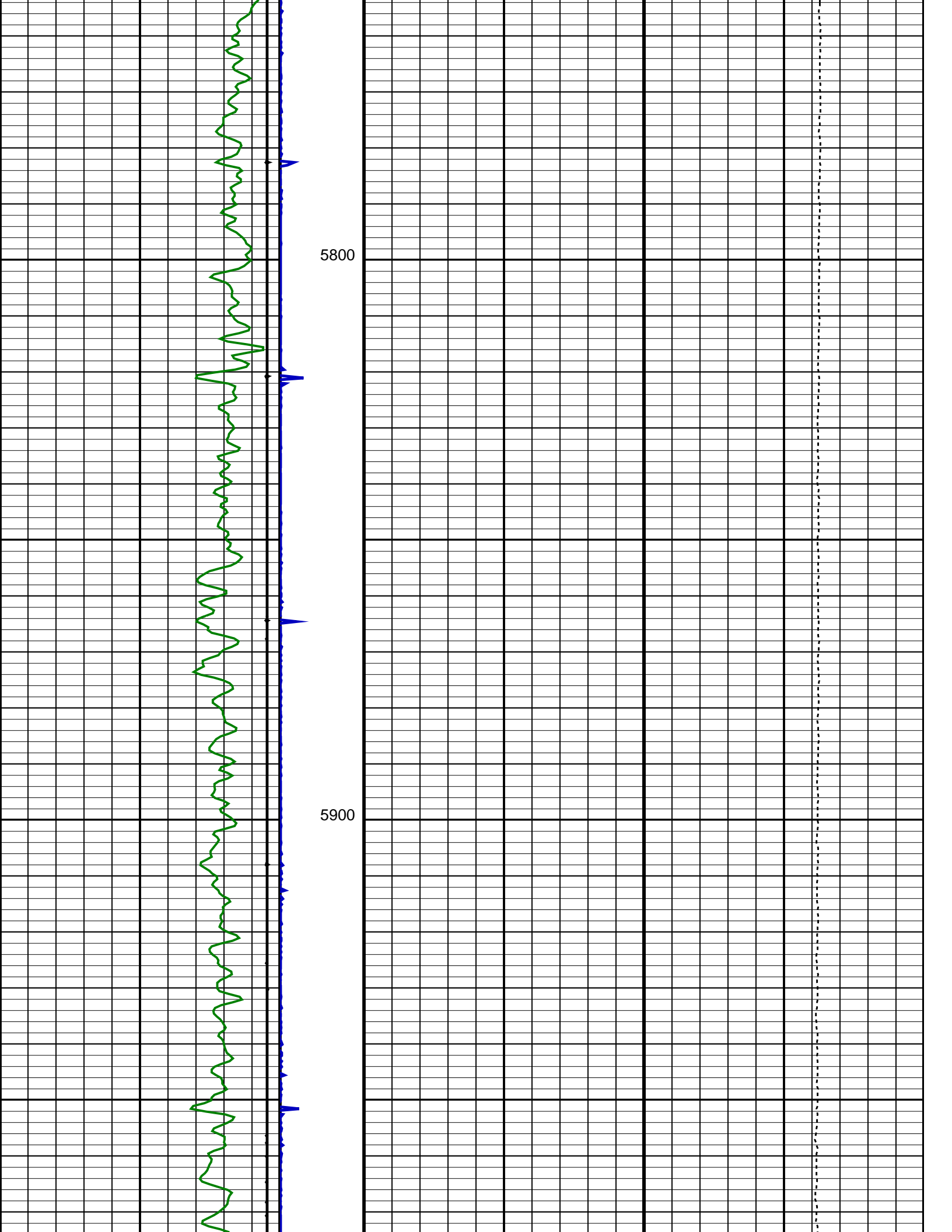


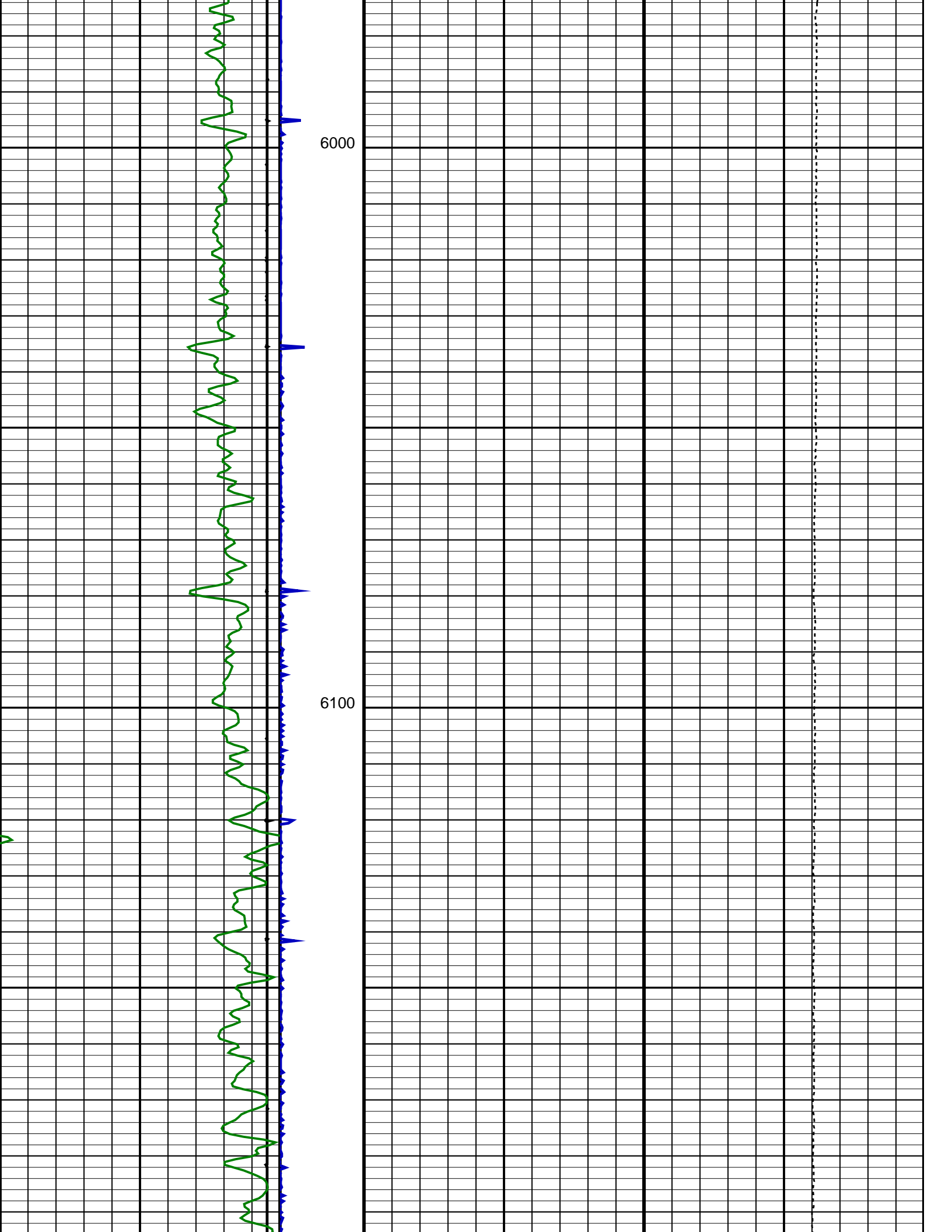


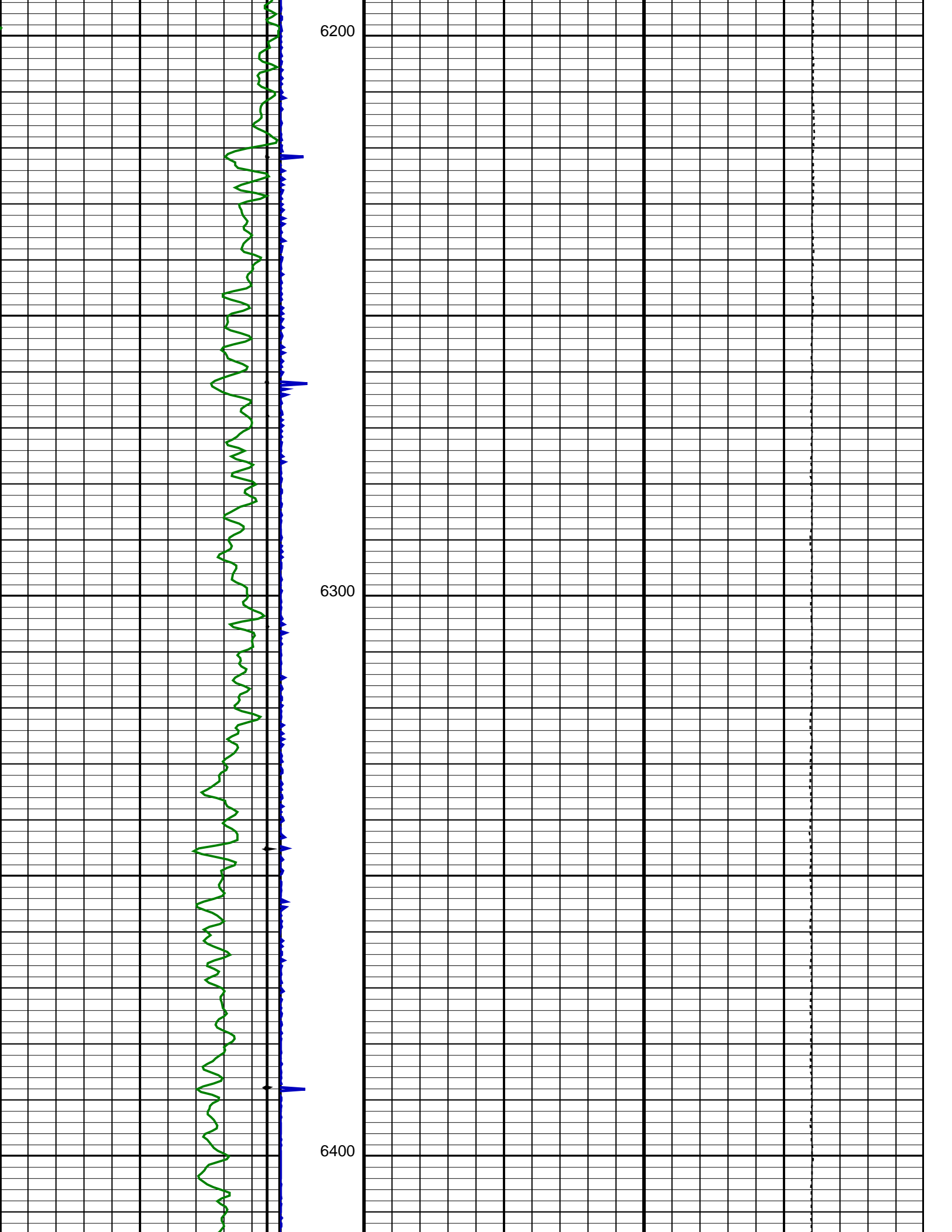


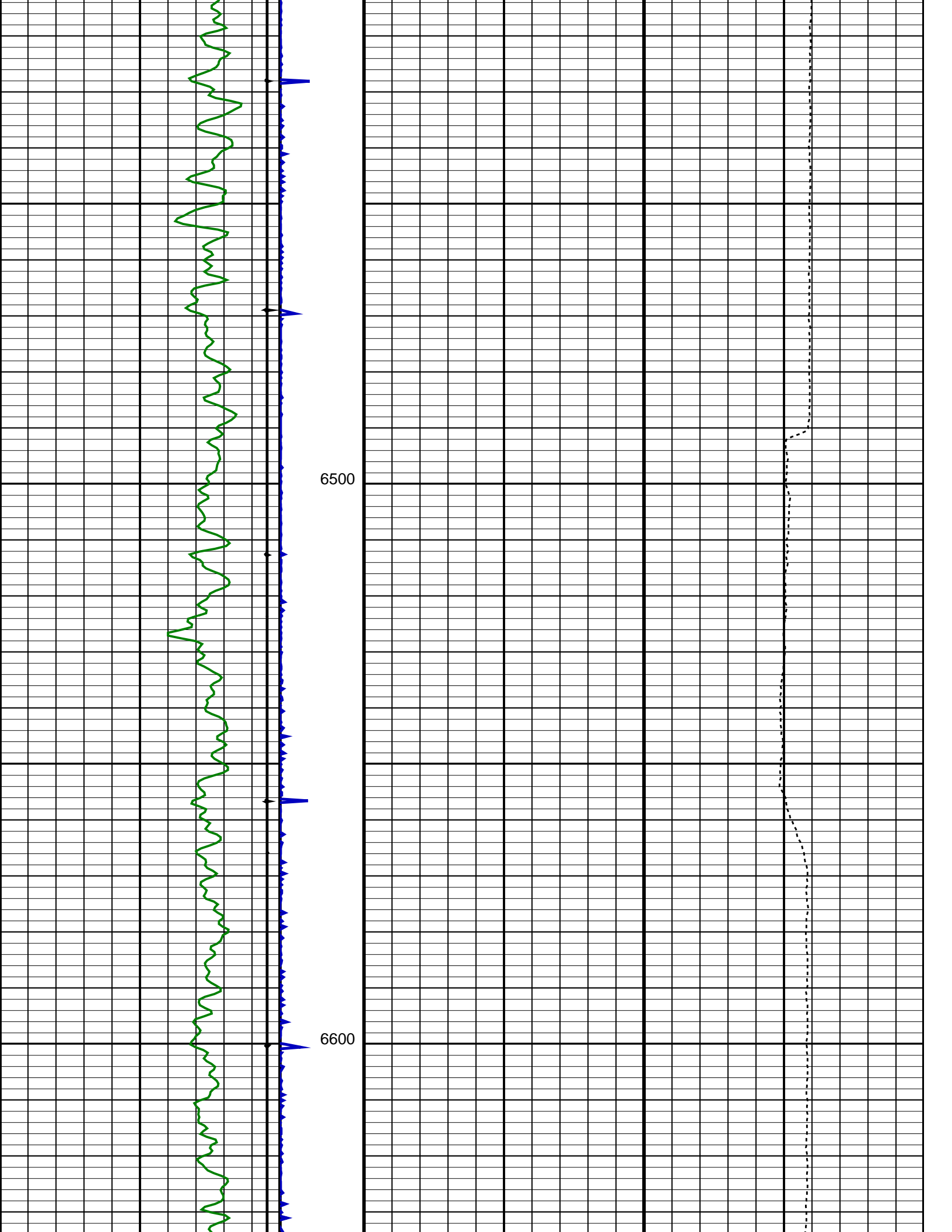


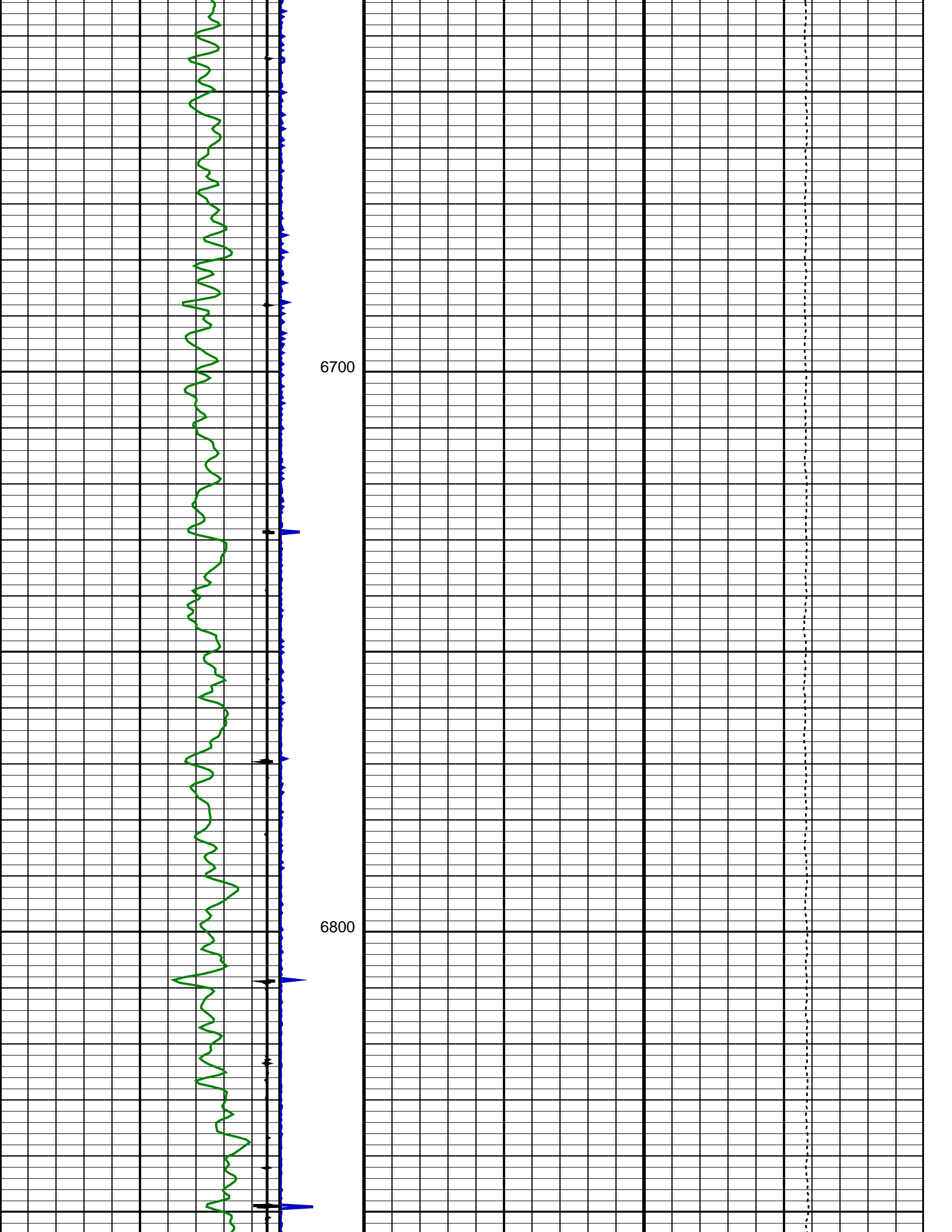


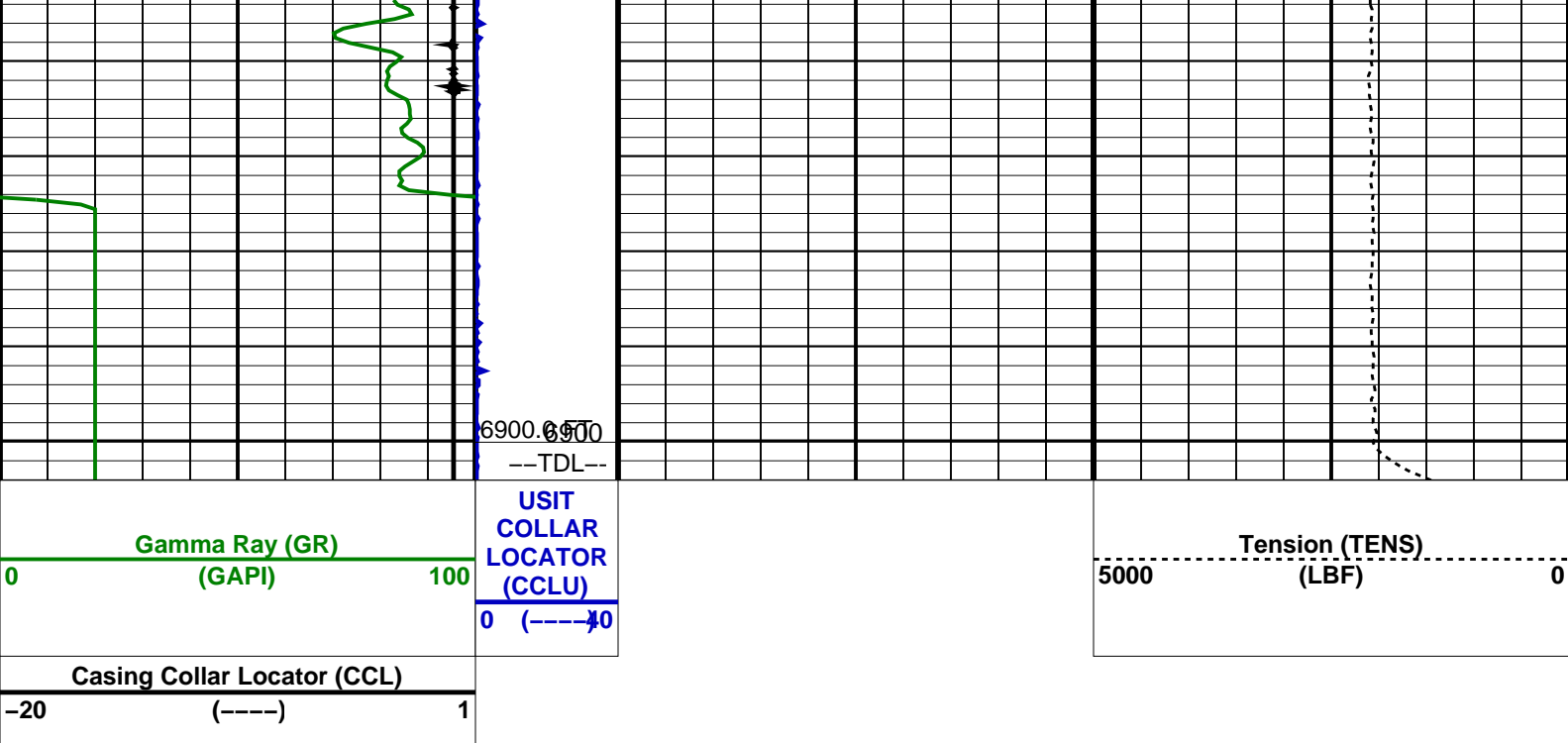












Parameters

DLIS Name	Description	Value
USIT-D: Ultrasonic Imaging - D		
AGMN	Minimum Gain of Cartridge	-4 DB
AGMX	Maximum Gain of Cartridge	20 DB
BERJ	Bad Echo Rejection	ON
CDIA	Casing Outer Diameter	7 IN
CSDE	Casing Density	486.94 LBCF
CSID	Casing Inner Diameter	6.276 IN
DFVL	Default Fluid Velocity	196 US/F
DOT	Diameter of Transducer Sensor	2.874 IN
EMXV	EMEX Voltage	20 V
MW	Mud Weight	8.3 LB/G
RCOD	Reference Calibrator Outer Diameter	7 IN
RCSO	Reference Calibrator Standoff	1.1811 IN
RCTH	Reference Calibrator Thickness	0.2952 IN
TCUB	T^3 Processing Level	Vax_Loop
THDH	Maximum Search Thickness (percentage of nominal)	130
THDL	Minimum Search Thickness (percentage of nominal)	70
THDP	Thickness Detection Policy	Fundamental
THNO	Nominal Thickness of Casing	0.362 IN
USTO	Ultrasonic Time Offset	-2 US
USUB	Ultrasonic Subassembly Identifier	Sub_7_inch
UWKM	Ultrasonic Working Mode	10DEG_6IN_136UNF_LF
VCAS	Ultrasonic Transversal Velocity in Casing	51.4 US/F
WLEN	T^3 Processing Length	21.7078 US
ZCAS	Acoustic Impedance of Casing	46.2537 MRAY
ZINI	Initial Estimate of Cement Impedance	-1 MRAY
ZMUD	Acoustic Impedance of Mud	1.7 MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.6 MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.3 MRAY
CAL-Y: Casing Anomaly Locator - Y		
CCLD	CCL reset delay	12 IN
CCLT	CCL Detection Level	0.3 V
System and Miscellaneous		
CWEI	Casing Weight	26.00 LB/F
DO	Depth Offset for Playback	0.0 FT
PP	Playback Processing	RECOMPUTE

Format: 5 inch Correlation (add to ND State) Vertical Scale: 5" per 100' Graphics File Created: 23-Apr-2013 16:08

OP System Version: 19C1-222

USIT-D	19C1-222	SGT-N	19C1-222
DTC-H	19C1-222	CAL-Y	19C1-222

Input DLIS Files

Output DLIS Files

DEFAULT

USI_009PUP

FN:8

PRODUCER

23-Apr-2013 16:08

Schlumberger

Mud Properties

MAXIS Field Log

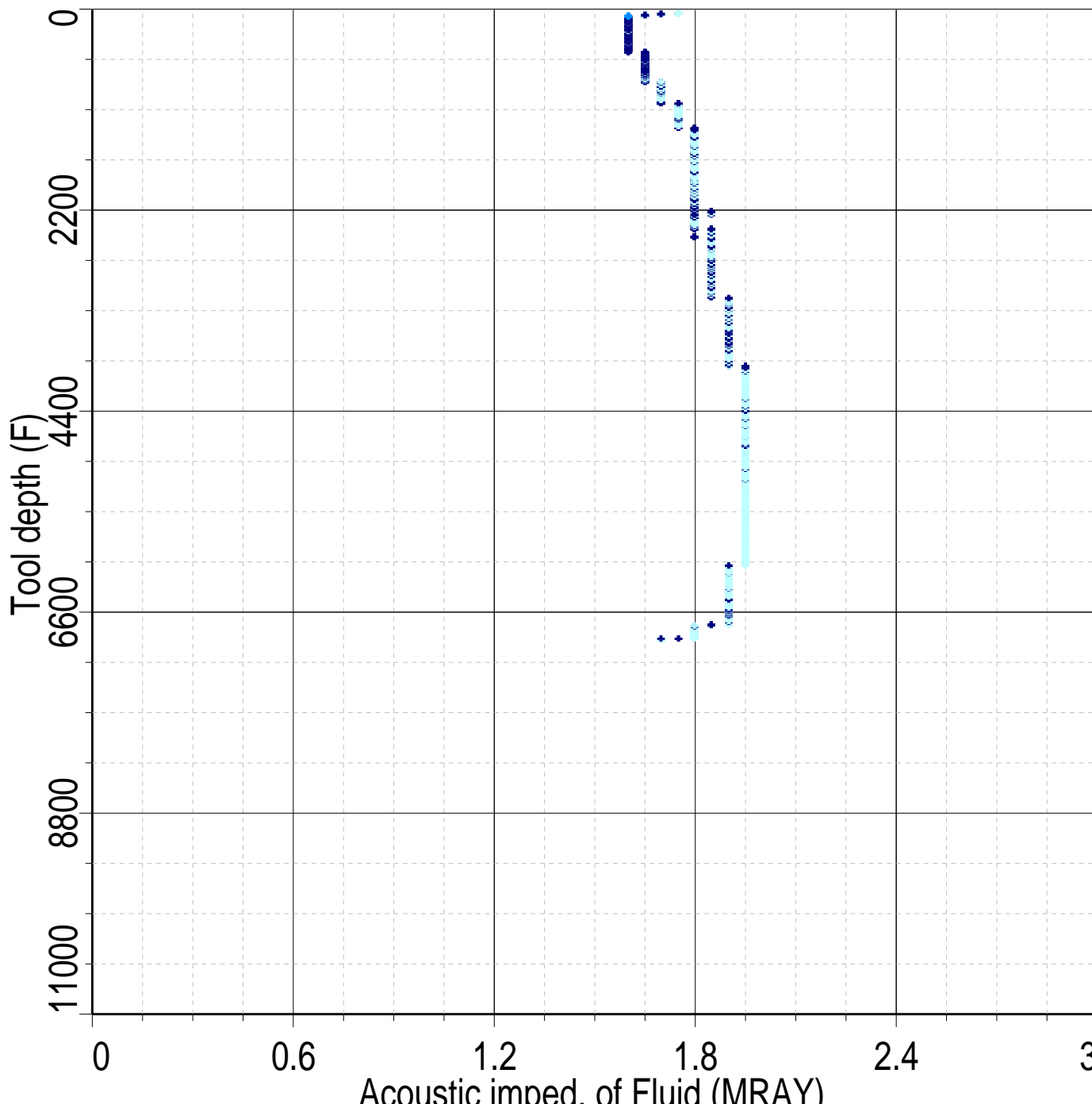
Index: 6904.0 – 39.5 FT

IBC Inv. Fluid Z QC (----)

0.



0.5



13730 Points Plotted

Acoustic Impedance of Fluid (mks/ft)

23-APR-2013 16:14

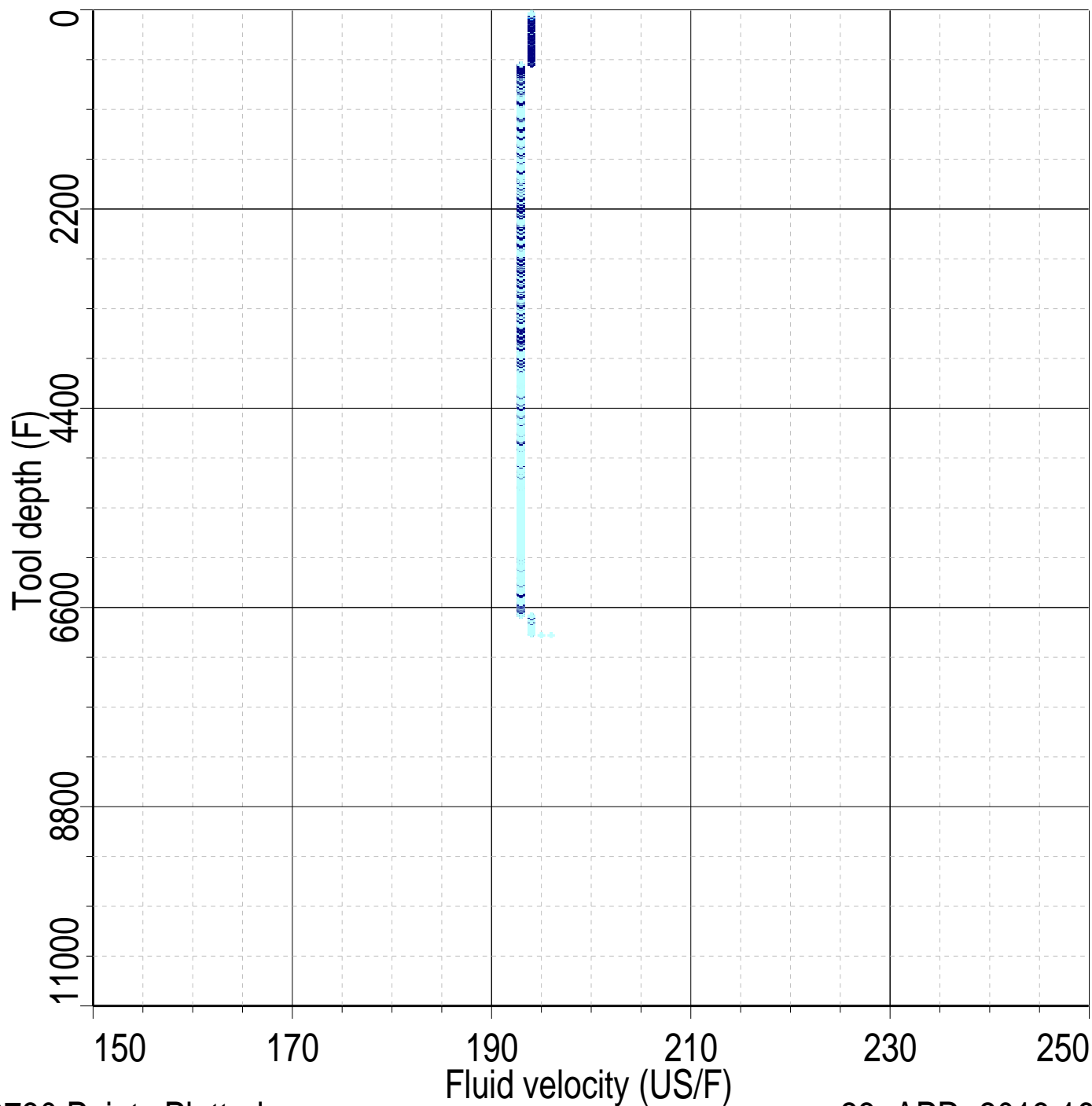
IBC Inv. Fluid Z QC (----)

Index: 6904.0 – 39.5 FT

0.



0.5



13730 Points Plotted

23-APR-2013 16:14

Company: **Noble Energy Inc.**

Schlumberger

Well: **Dyer USX AB35-67-1NH**

Field: **Wattenberg**

County: **Weld**

State: **Colorado**

Isolation Scanner

State Print