

HALLIBURTON

CEMENT
BOND

FIELD COPY

Company		BILL BARRETT CORPORATION		Company		BILL BARRETT CORPORATION	
Well		ANSCHUTZ EQ FARMS 0560BH2		Well		ANSCHUTZ EQ FARMS 0560BH2	
Field		WATTENBERG		Field		WATTENBERG	
County		WELD State CO		County		WELD State CO	
Permanent Datum		GROUND LEVEL		Elevation		4514'	
Log Measured From		KB		23' Ft. above perm. datum		K.B. 4537' D.F. 4536' G.L. 4514'	
Drilling Measured From		KB					
Date @ Time Logged		17 FEB @ 20:22		Type Fluid in Hole		WATER	
Run No.		ONE		Density of Fluid		8.3	
Depth - Driller		16100'		Fluid Level		535'	
Depth - Logger		5678'		Cement Top Est. Logged		4743'	
Bottom - Logged Interval		5671'		Equipment / Location		11726117 / G.J.CO.	
Top - Log Interval		523'		Recorded by		RICHARD MACKIE	
Max. Recorded Temp.		226 °F		Witnessed by		JOHNNY DAMRON	
CEMENTING DATA		Surface String		Protection String		Production String	
Date / Time Cemented				Primary / Squeeze			
Expected Compressive Strength		psi@ hrs		psi@ hrs		psi@ hrs	
Cement Volume		psi@ hrs		psi@ hrs		psi@ hrs	
Cement Type / Weight		/		/		/	
Formulation							
Mud Type / Mud Wgt.		/		/		/	
Run Number		Bit From To		Size		Weight From To	
SURFACE				13 1/2"		UNKNOWN 23"	
INTERMEDIATE				7"		26 0"	
PRODUCTION				4 1/2"		11.6 5555' 15900'	

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HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

Comments

ANSCHUTZ EQ FARMS 04-62-15-0560BH2

THIS IS THE PRIMARY DEPTH REFERENCE FOR THIS WELL

SHORT JOINT @ 4550' - 4580'

LINER TOP @ 5562'

LOG INTERVALS PER CUSTOMER REQUEST

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES!!

Service Ticket No.	902142755	API No.	05-123-40444	PGM Ver	WARRIOR 8.0
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The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client

EQUIPMENT DATA							
TELEMETRY		CEMENT BOND					
Run No.	ONE	Run No.	ONE	Run No.		Run No.	
Serial No.	12098992	Serial No.	11923474	Serial No.		Serial No.	
Model No.	TTTCU-002	Model No.	CBLM PROBE	Model No.		Model No.	
Diameter	1 11/16"	Diameter	2 3/4"	Diameter		Diameter	

LOGGING DATA

General Data							
Pass	Depths		Well Head	Speed	Logging Run Comments		
No	From	To	Pressure	Ft/Min			

No.	FROM		TO		Pressure		Temp		55		
	GAMMA RAY			AMPLITUDE			TRAVEL TIME				
Pass	Scale			Scale			Scale			Scale	
No.	L	R	L	R	L	R	L	R	L	L	
ALL PASSES	0	200	0	100	450	250					
DIRECTIONAL INFORMATION											
Maximum Deviation			deg. @			KOP					

HALLIBURTON

MAIN PASS

SCALE 5" = 100'

Database File
Dataset Pathname
Presentation Format
Dataset Creation
Charted by

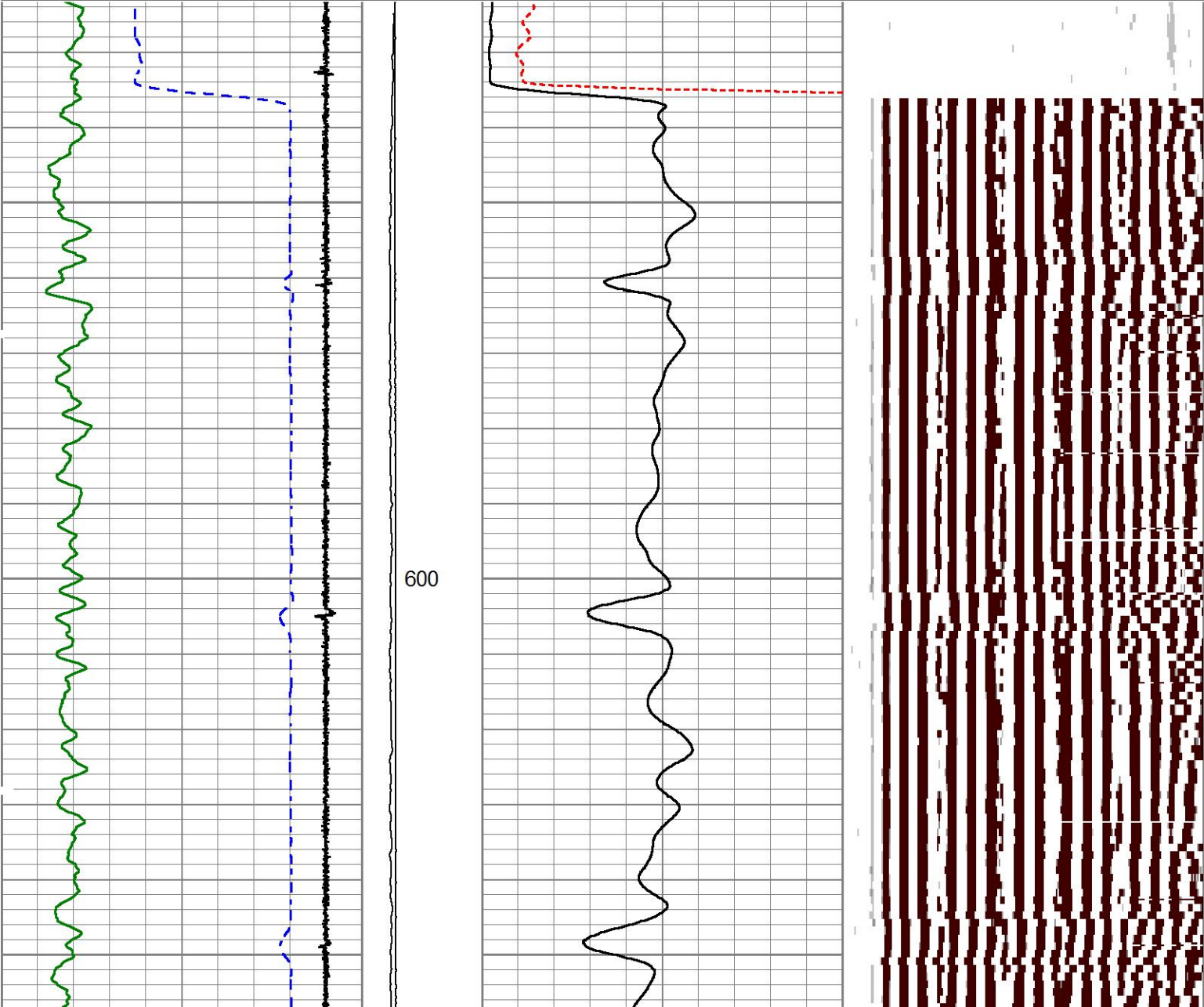
f:\bill_barrett\anschultz_eq_farms_0560bh2\0560bh2.db
MAIN
hcbl
Tue Feb 17 20:50:27 2015
Depth in Feet scaled 1:240

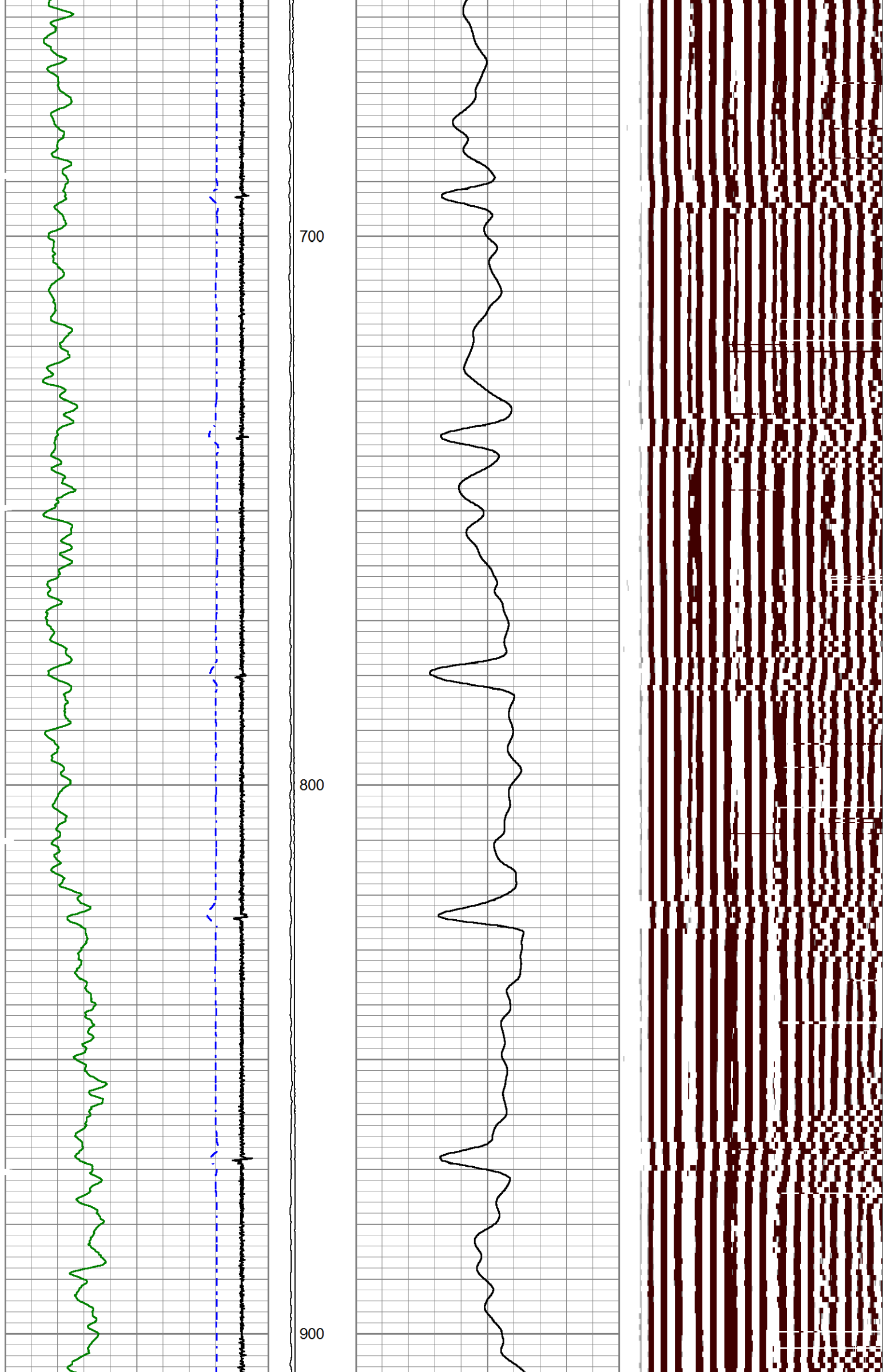
4503' Travel Time250
-1350CCL150
0Gamma Ray (GAPI)200

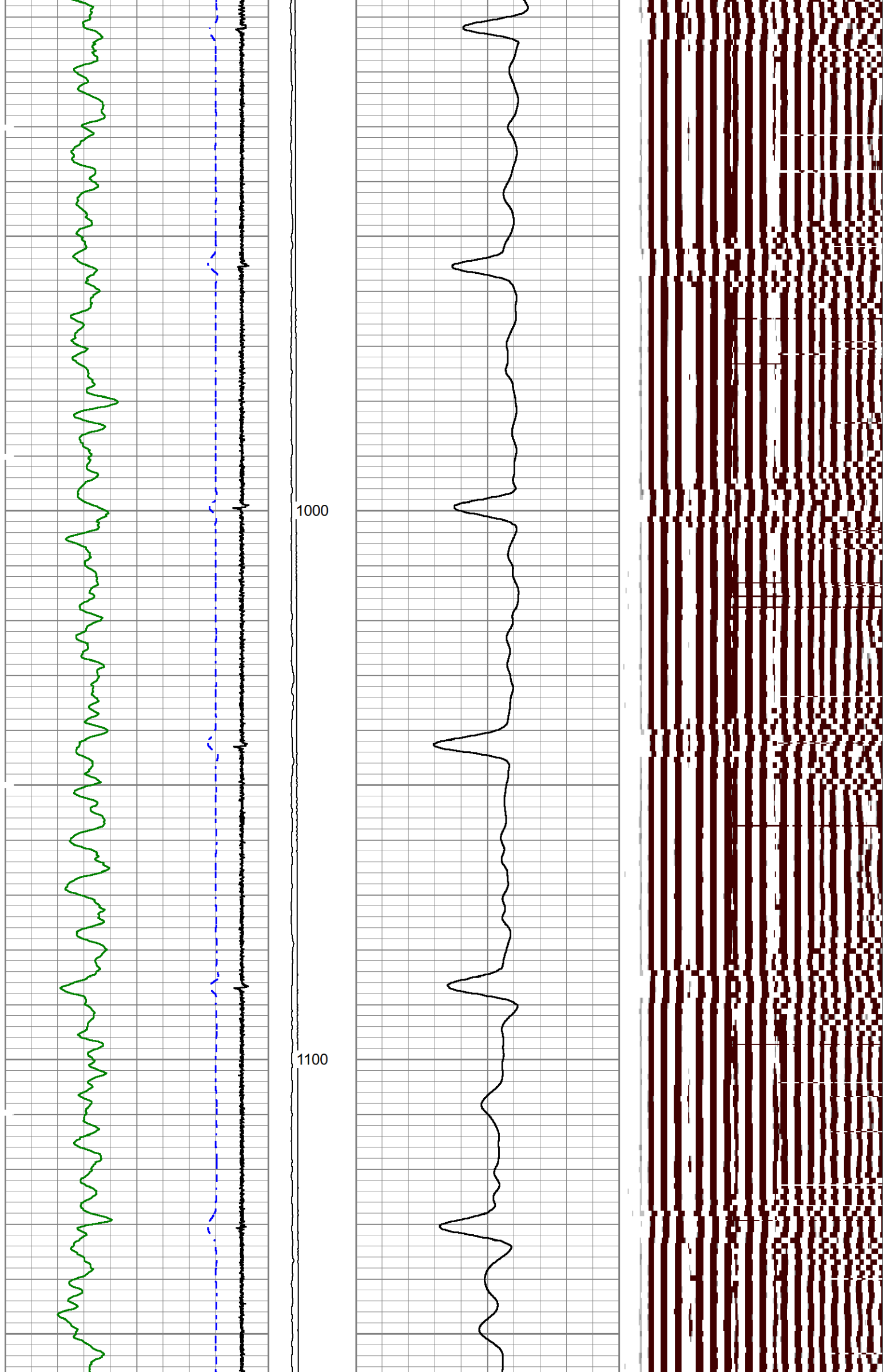
LTEN03' Amplitude (mV)100
(lb200003' Amplitude X5 (mV)20

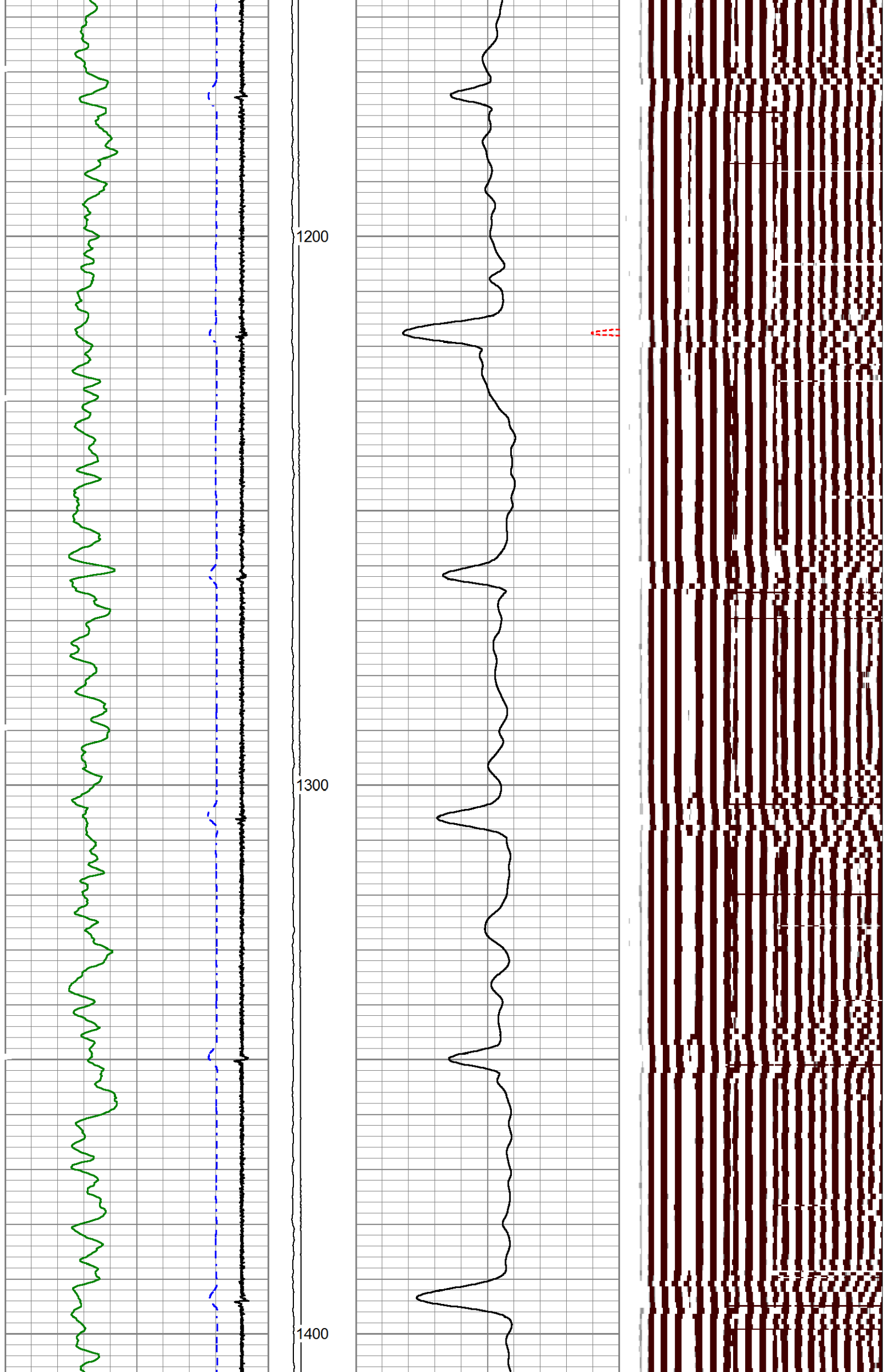
TEMP
(degF)
0250

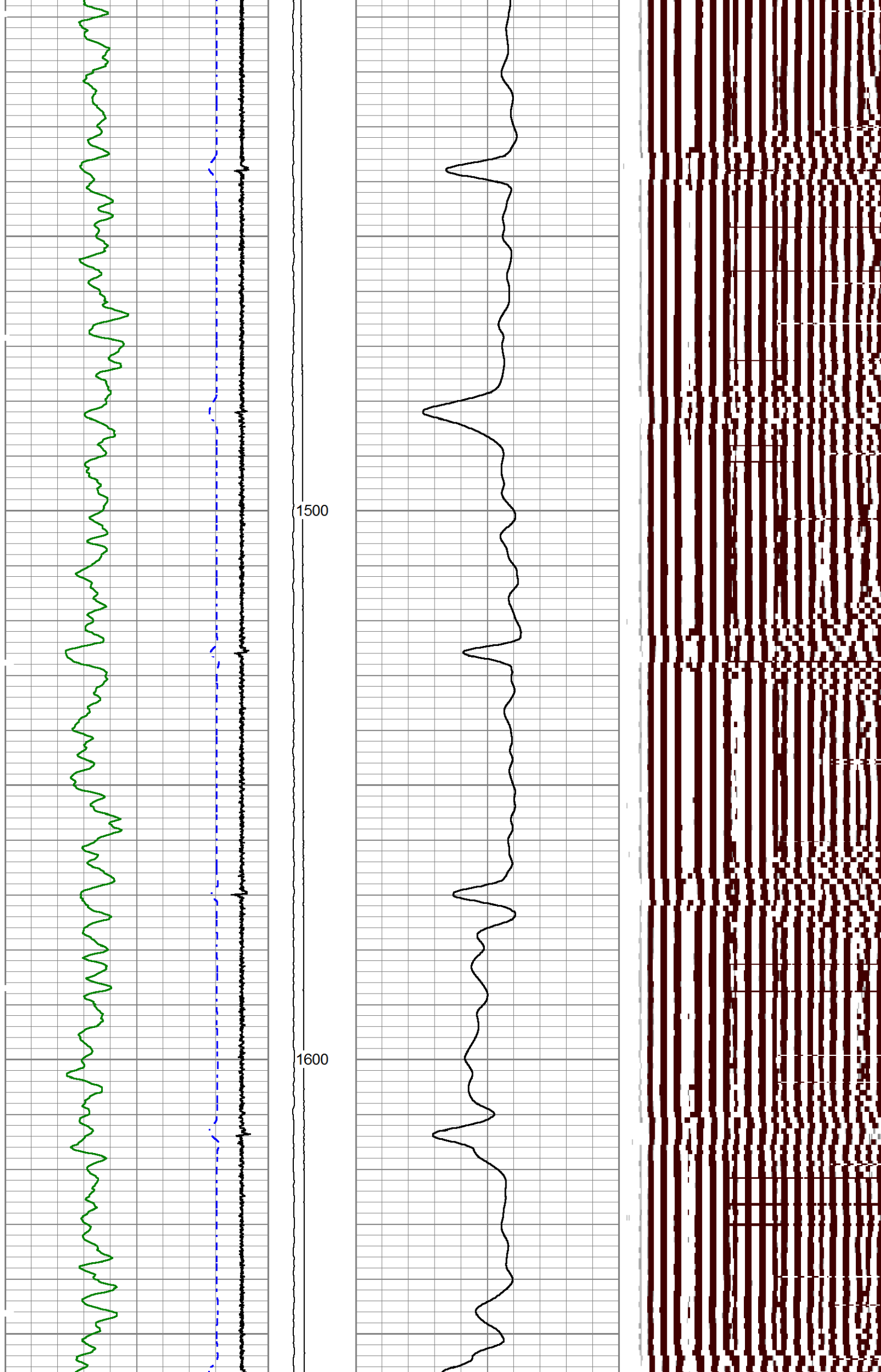
MSG1160
50

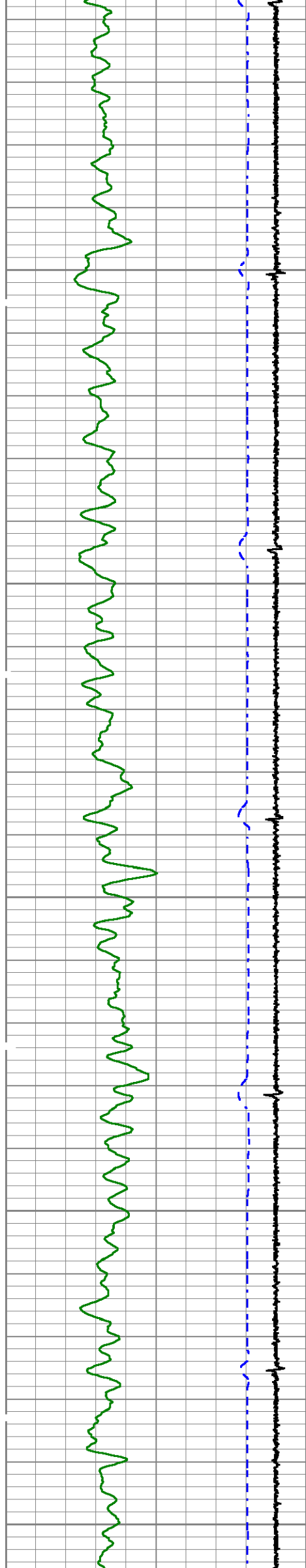








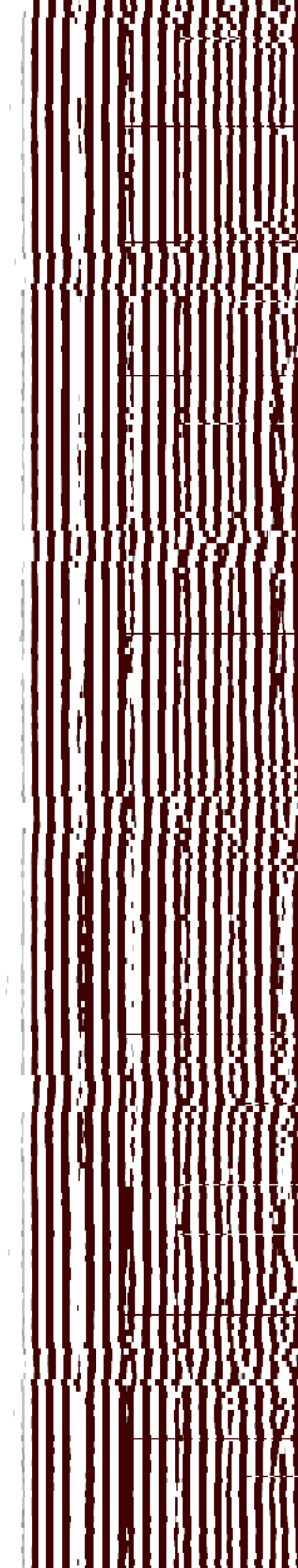
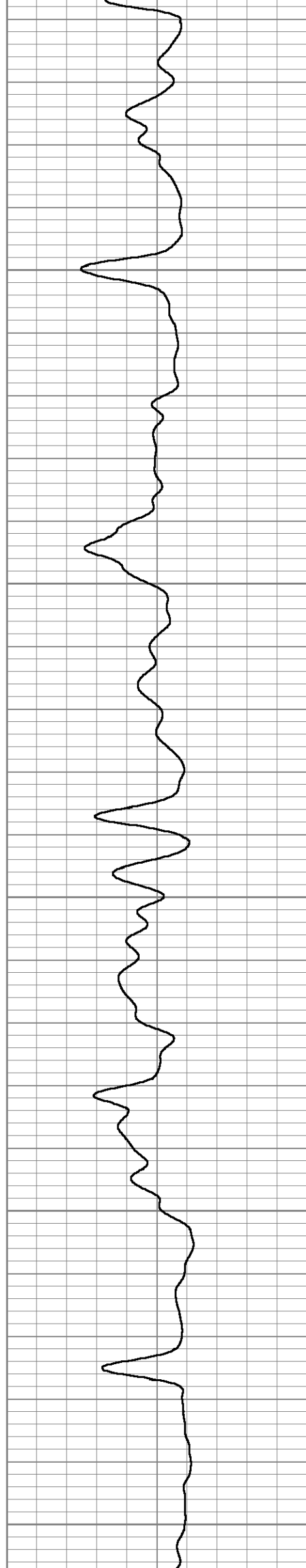


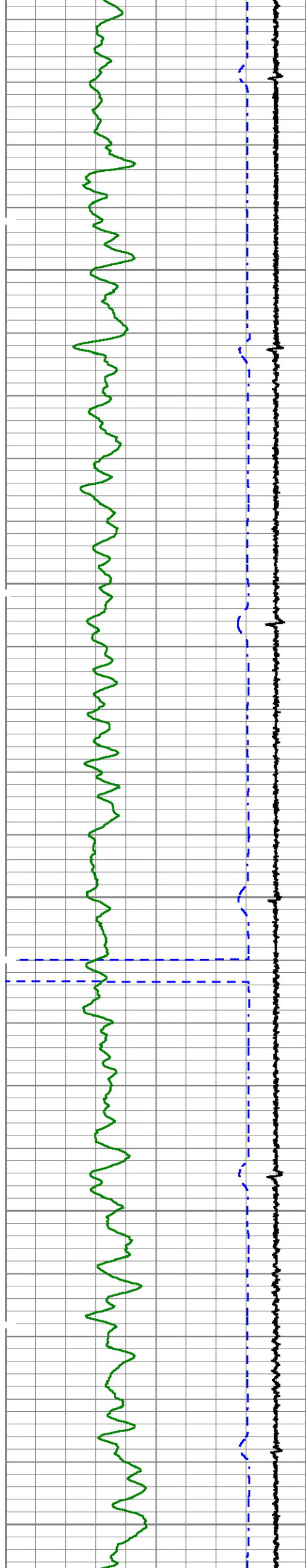


1700

1800

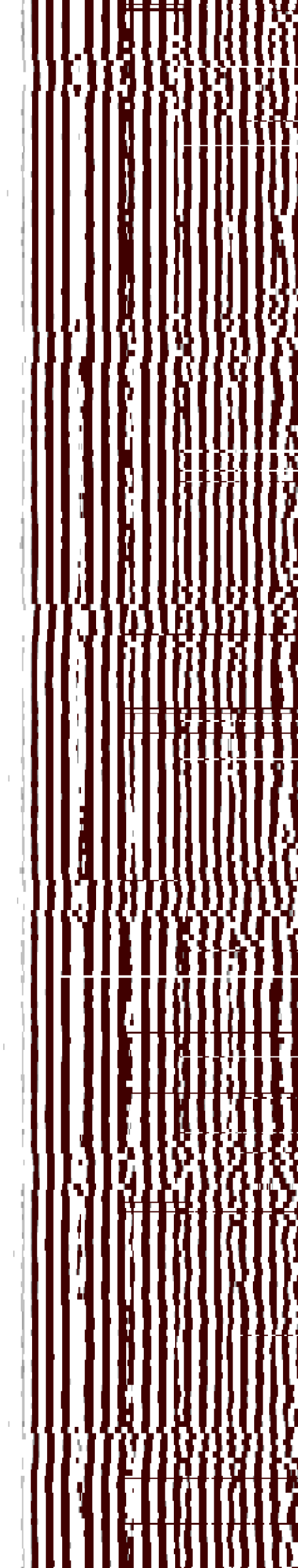
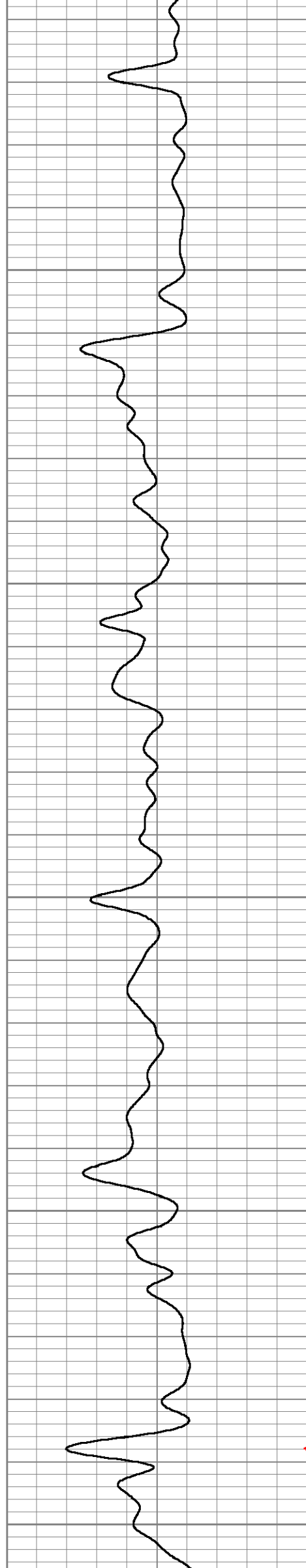
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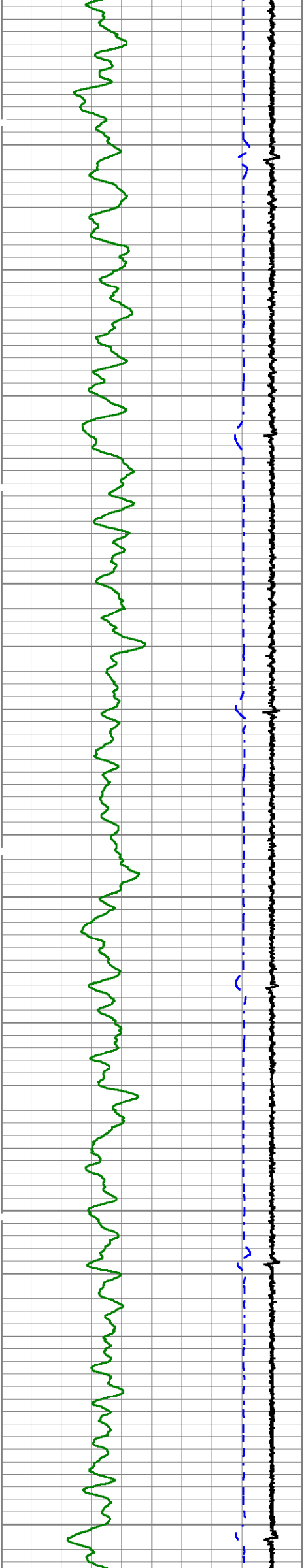




2000

2100

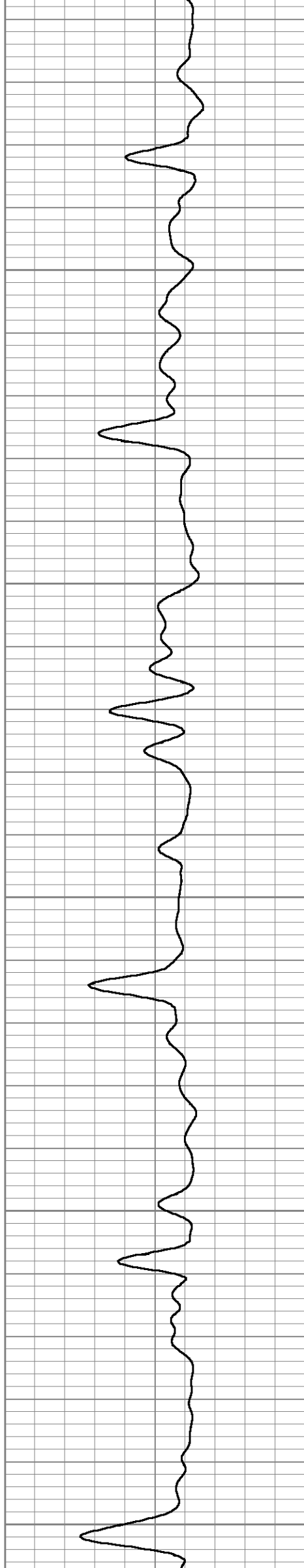


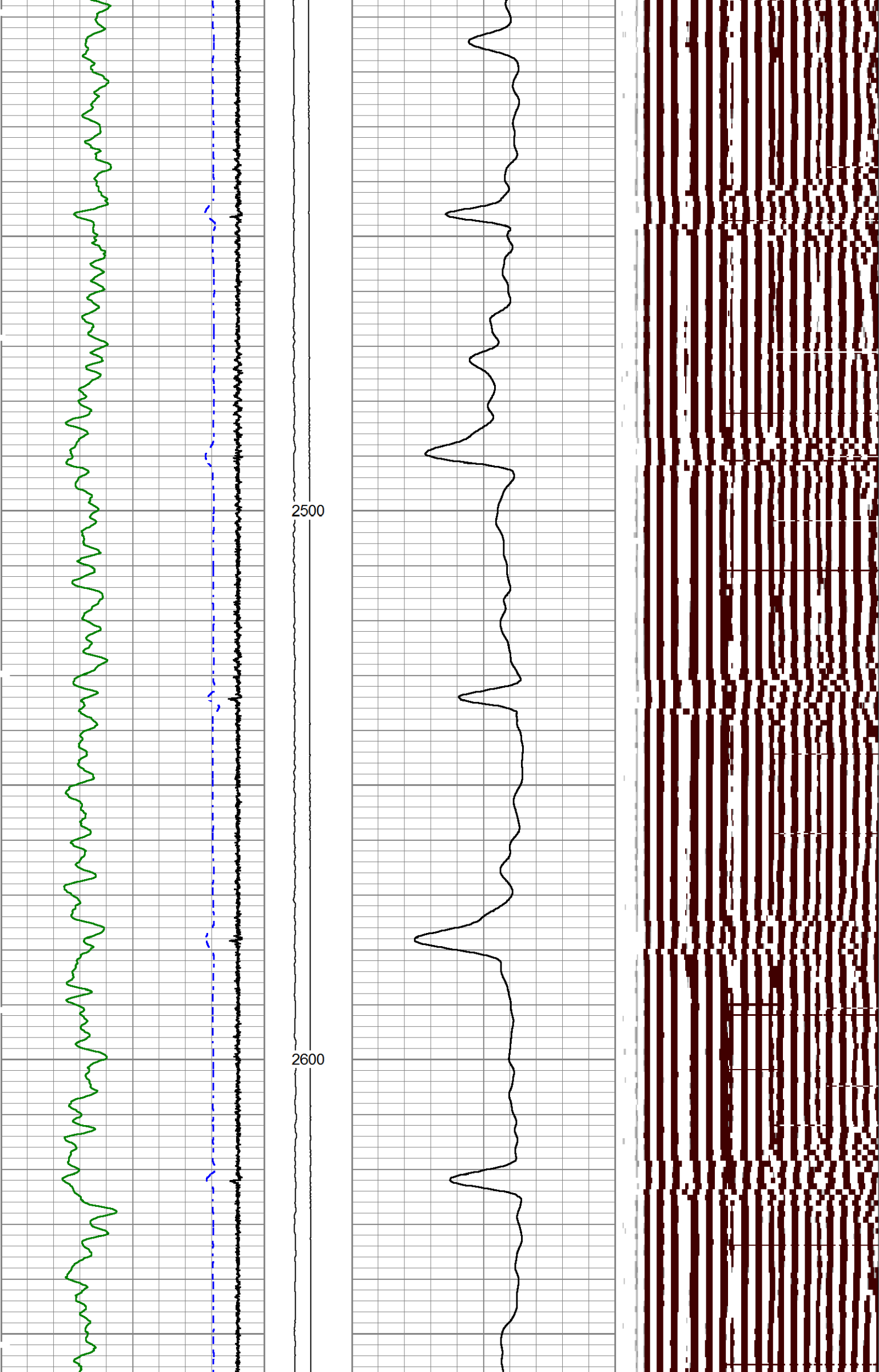


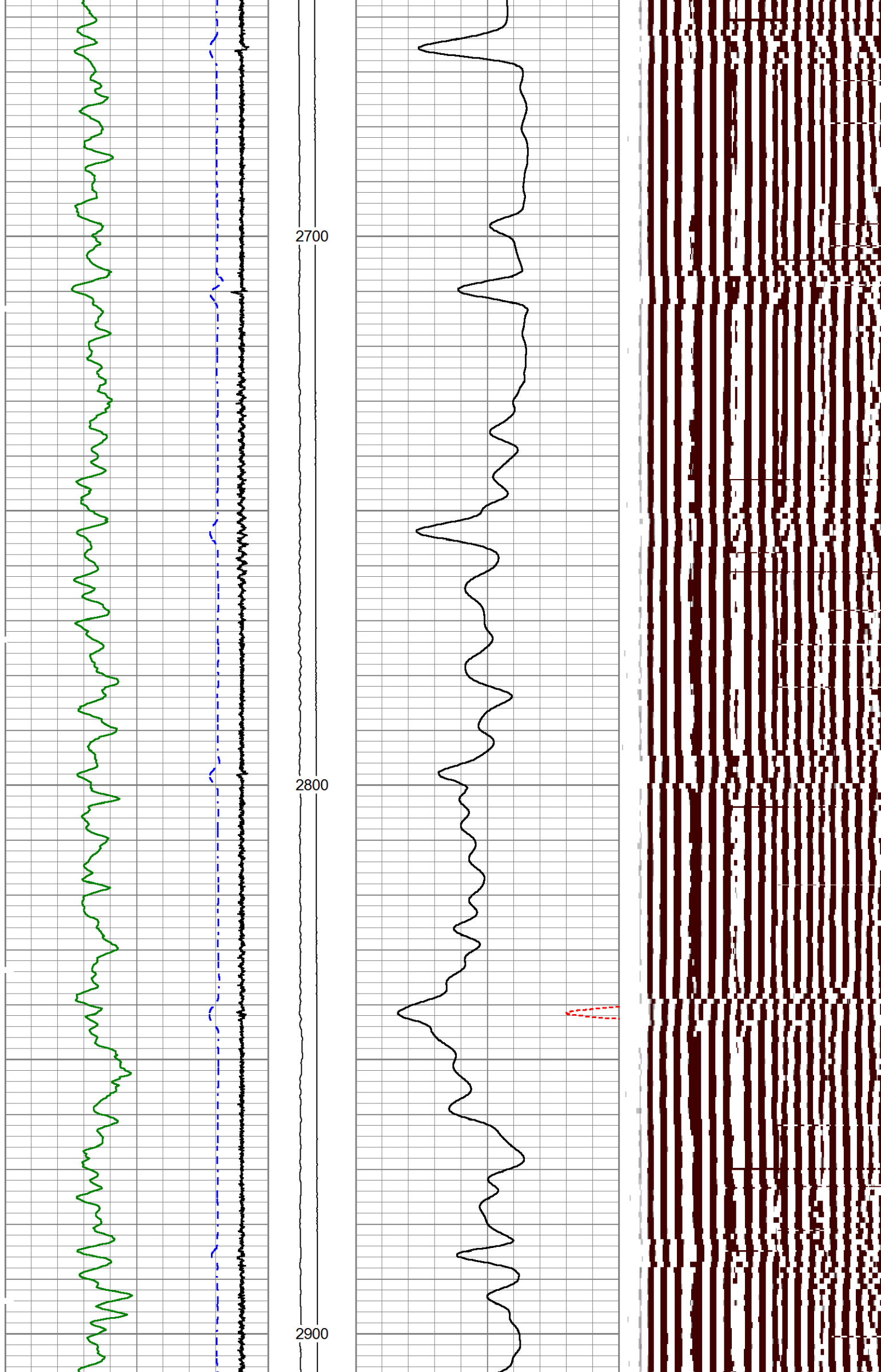
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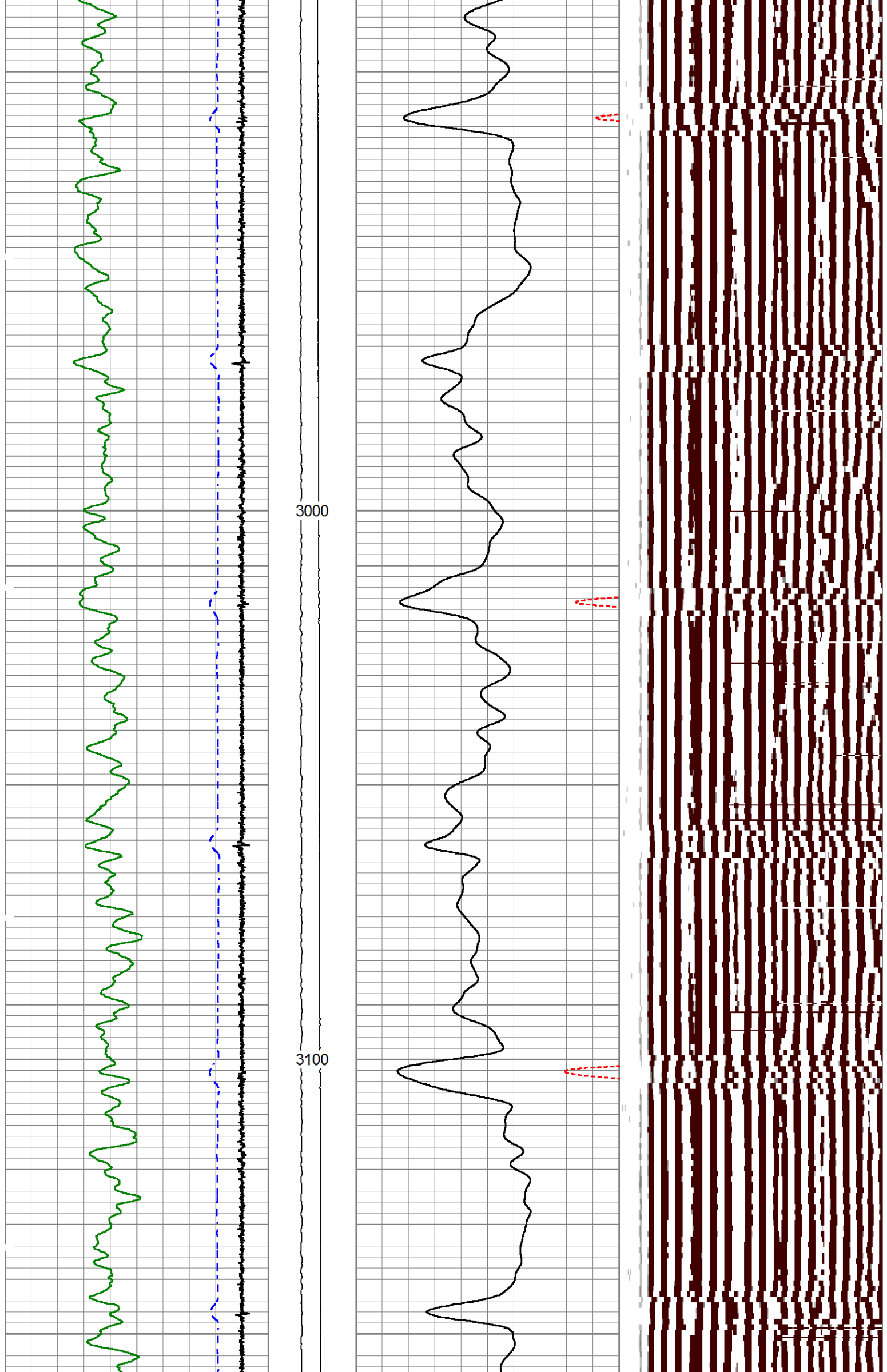
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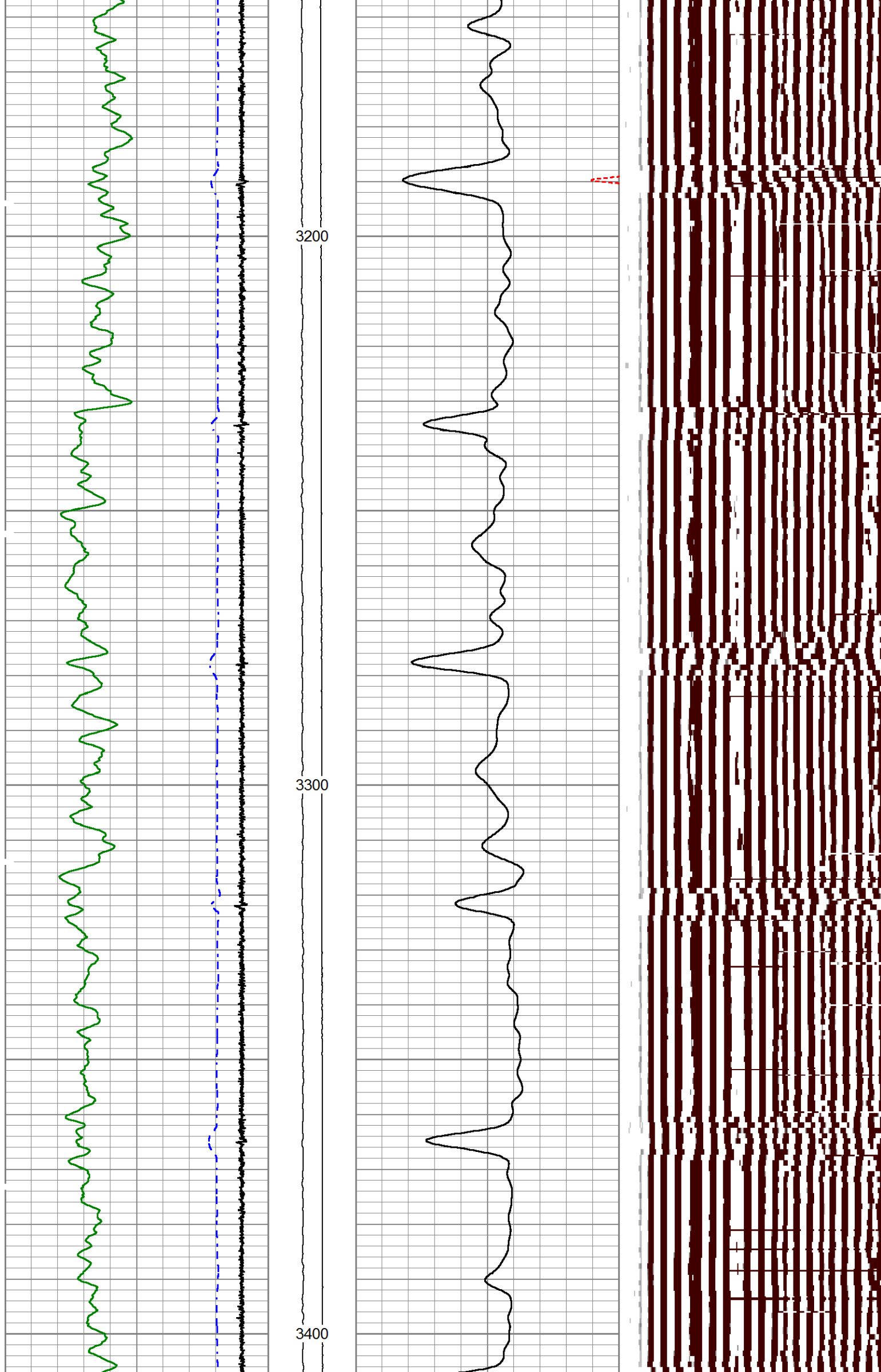
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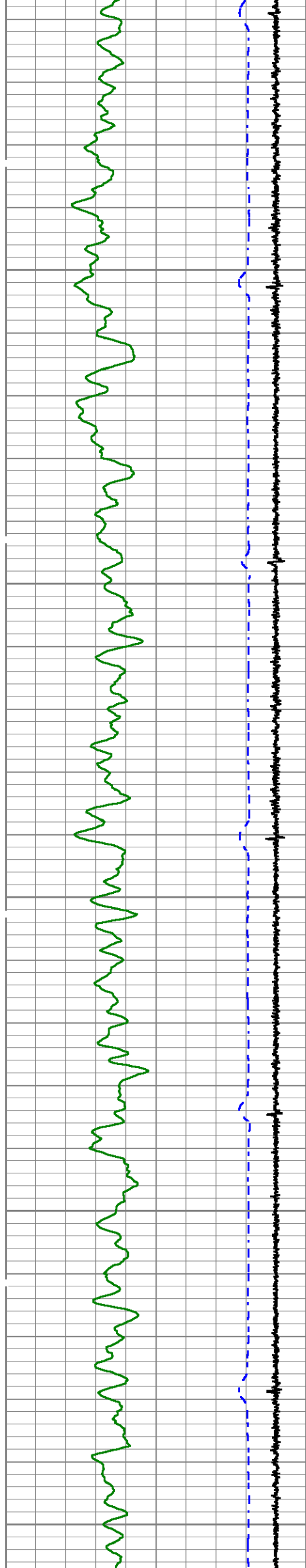






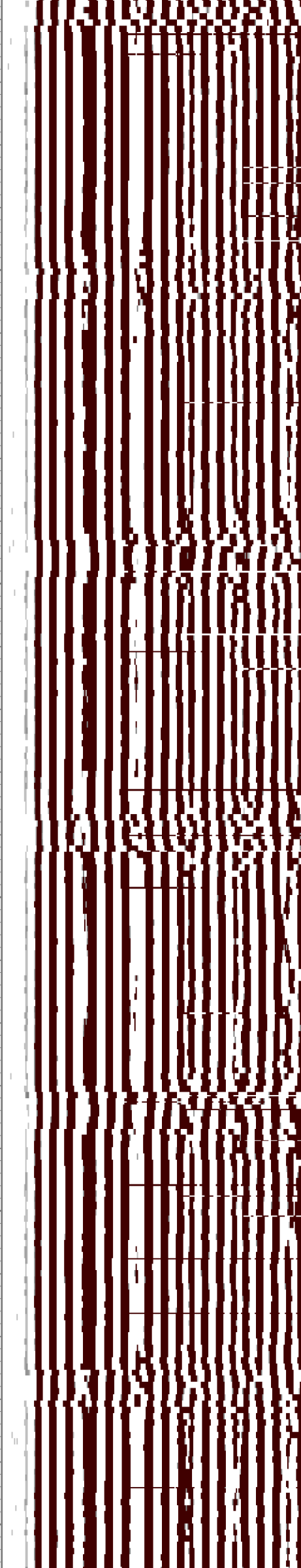
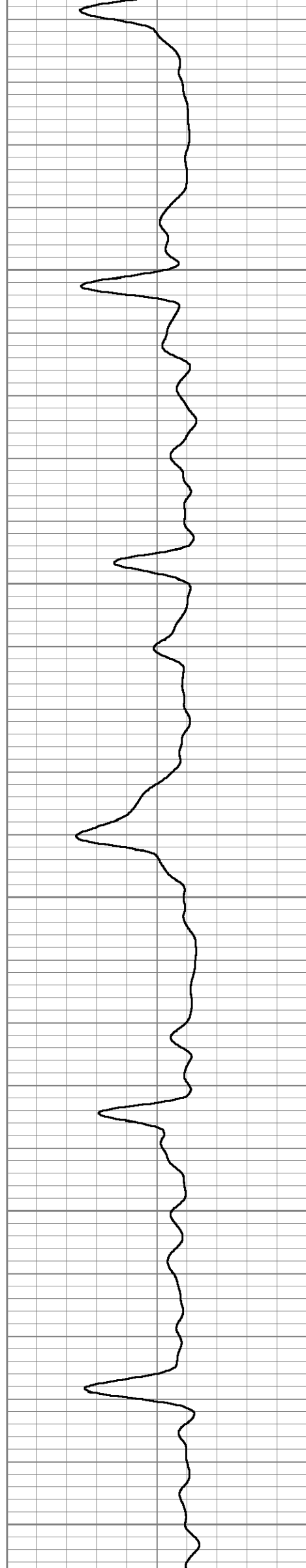


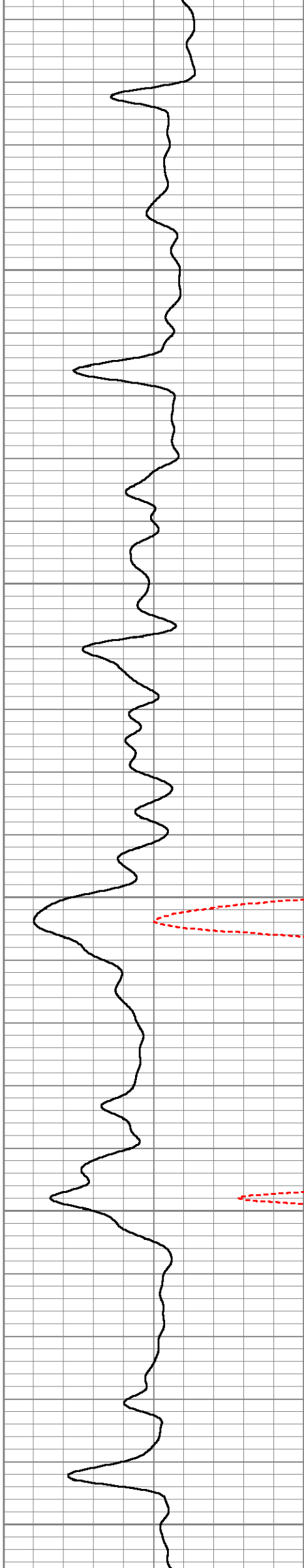
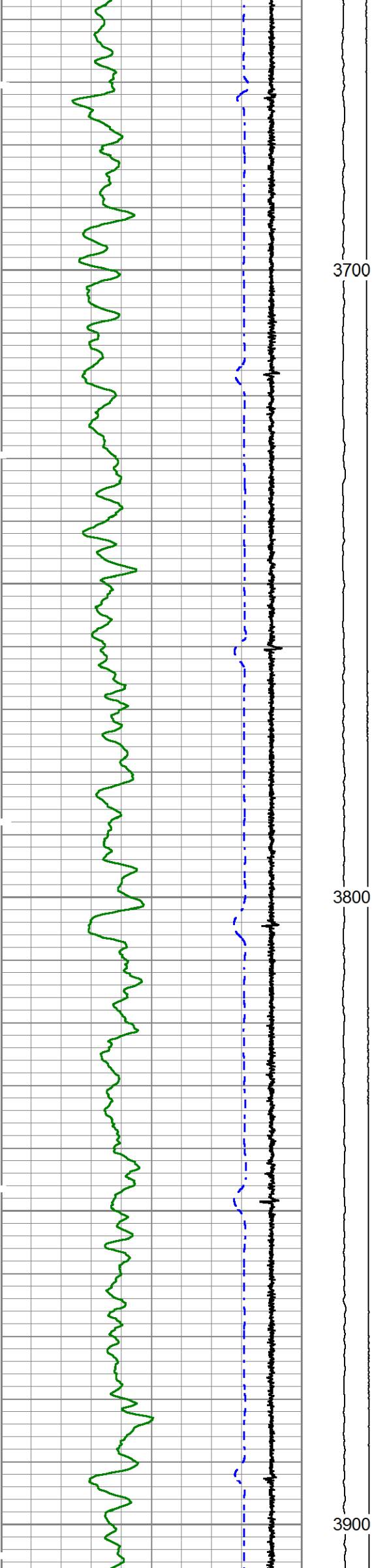


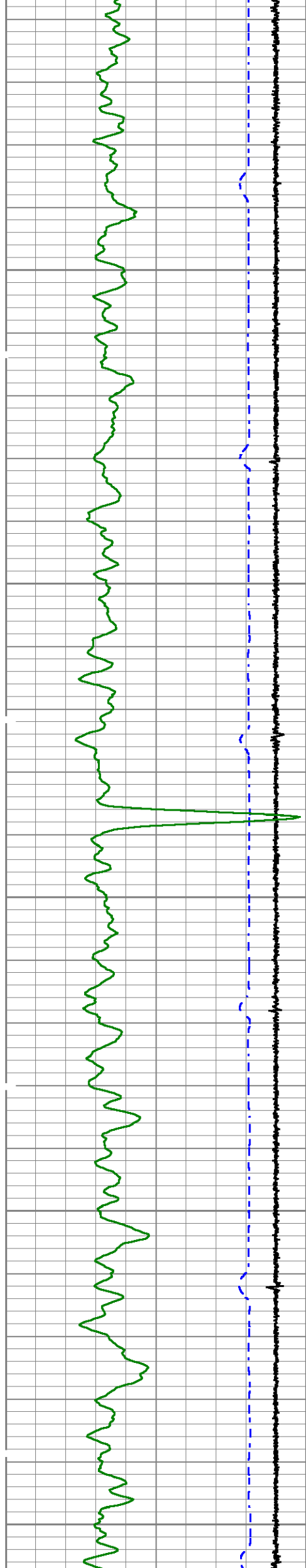


3500

3600

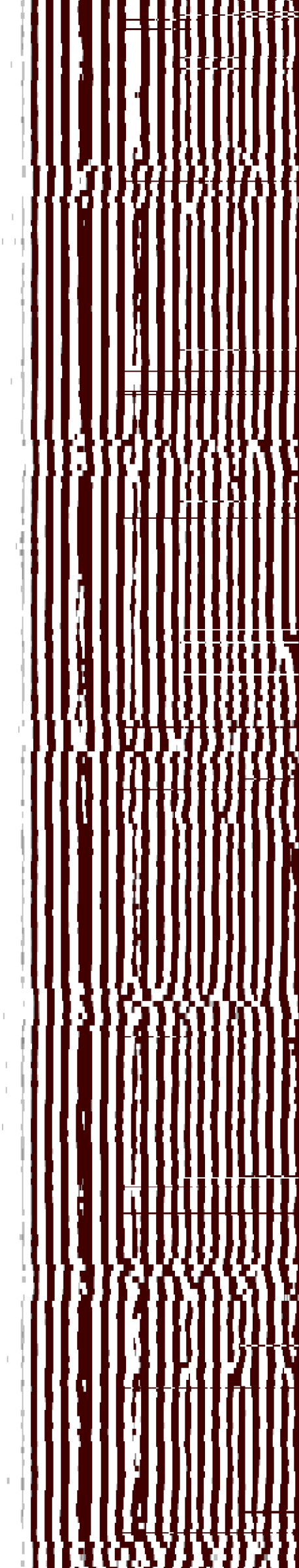
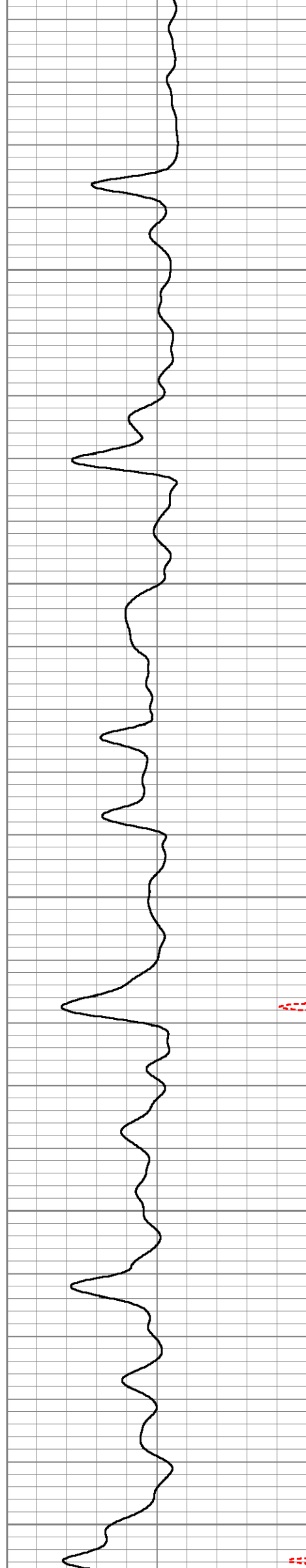


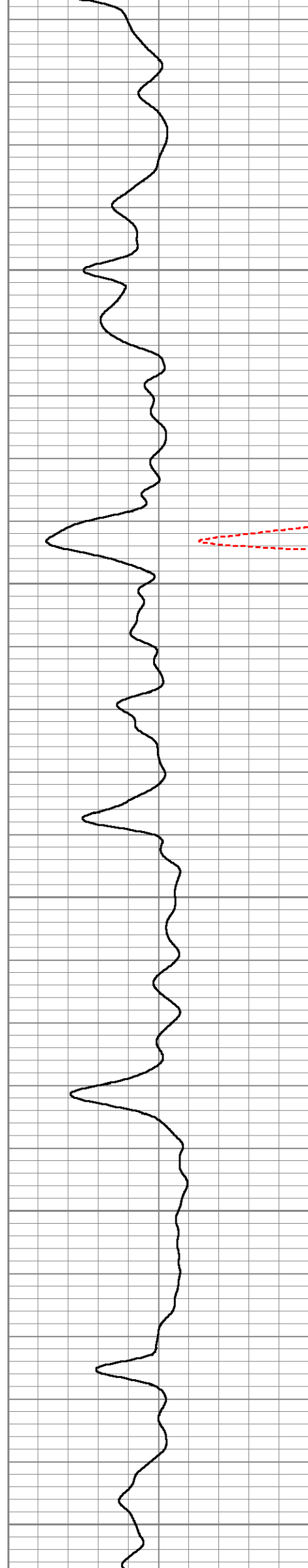
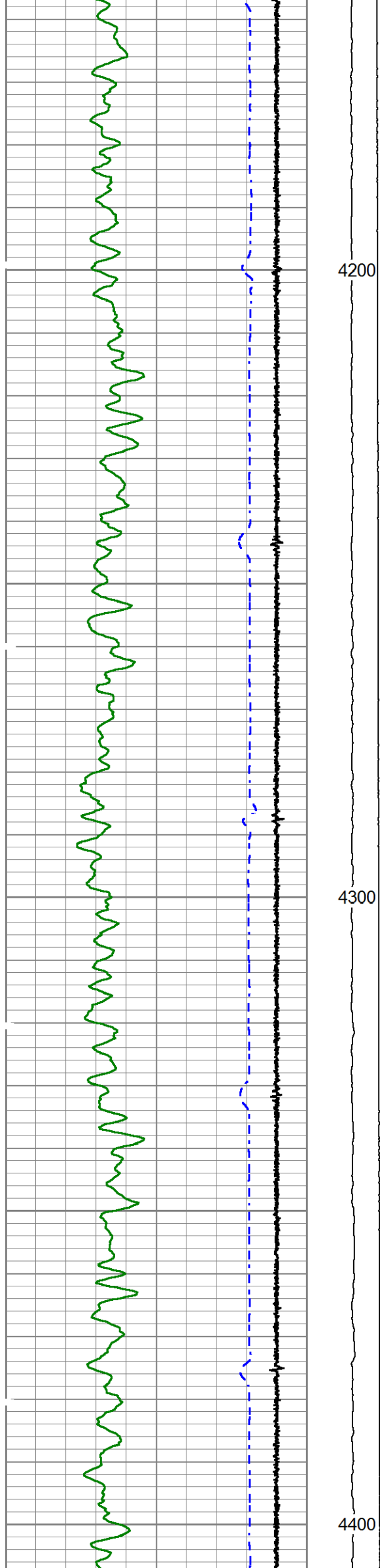


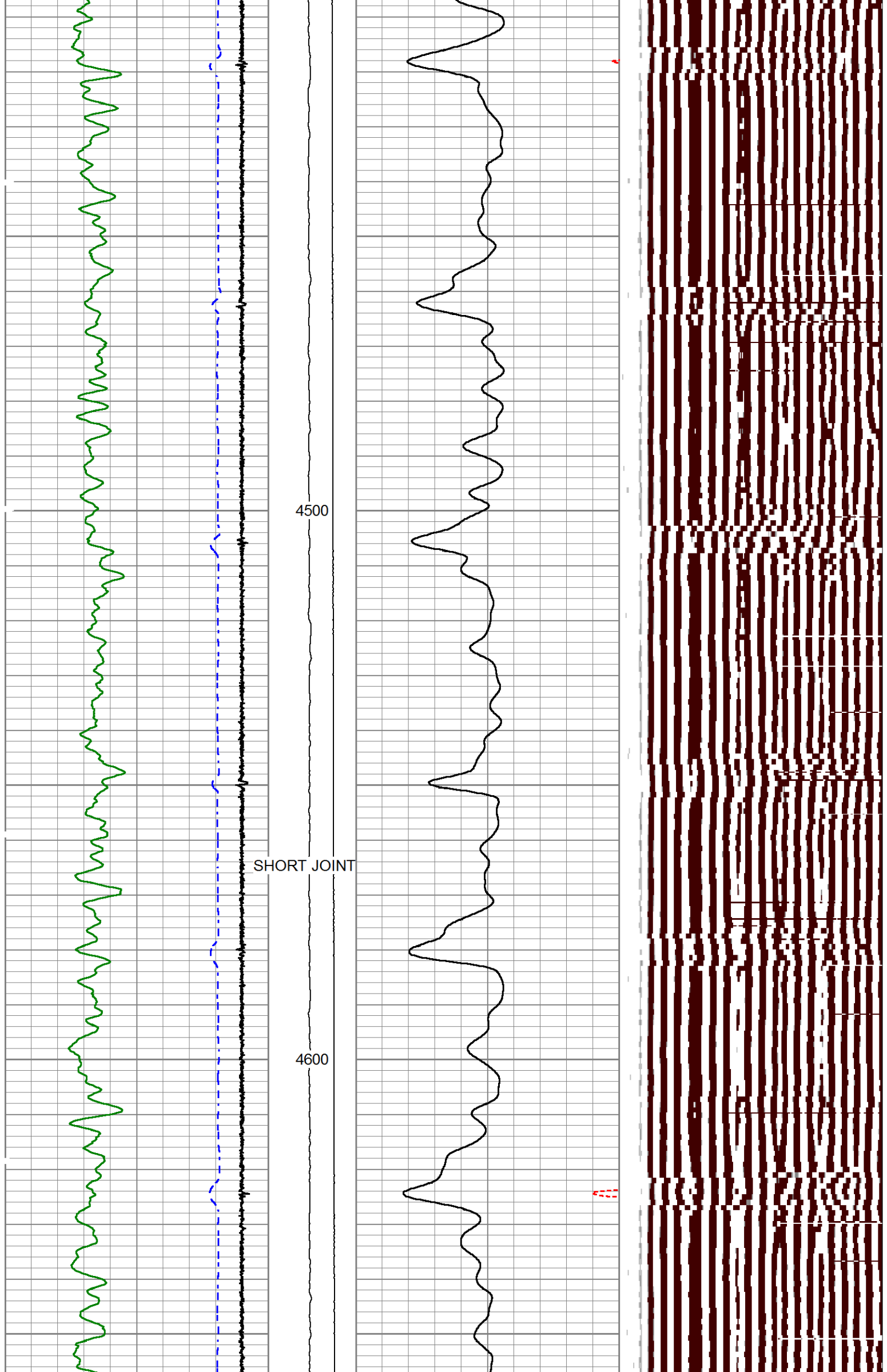


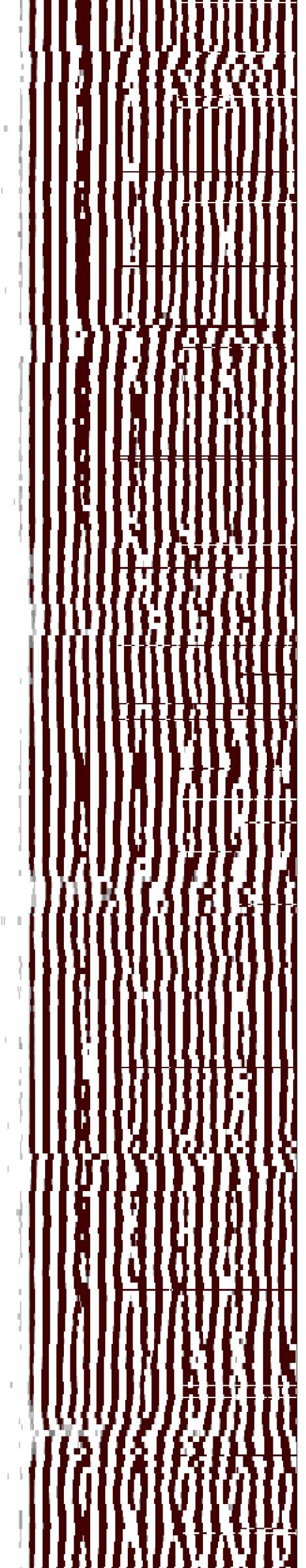
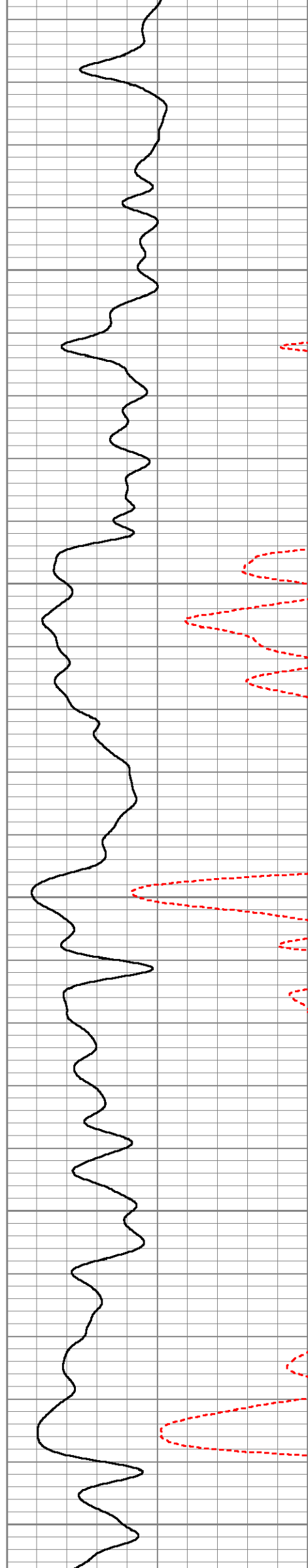
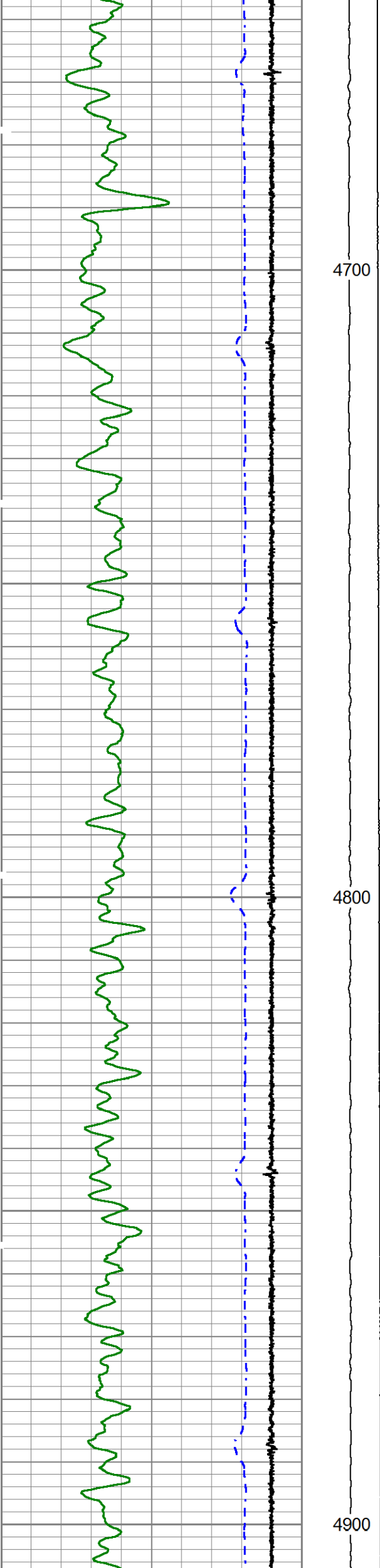
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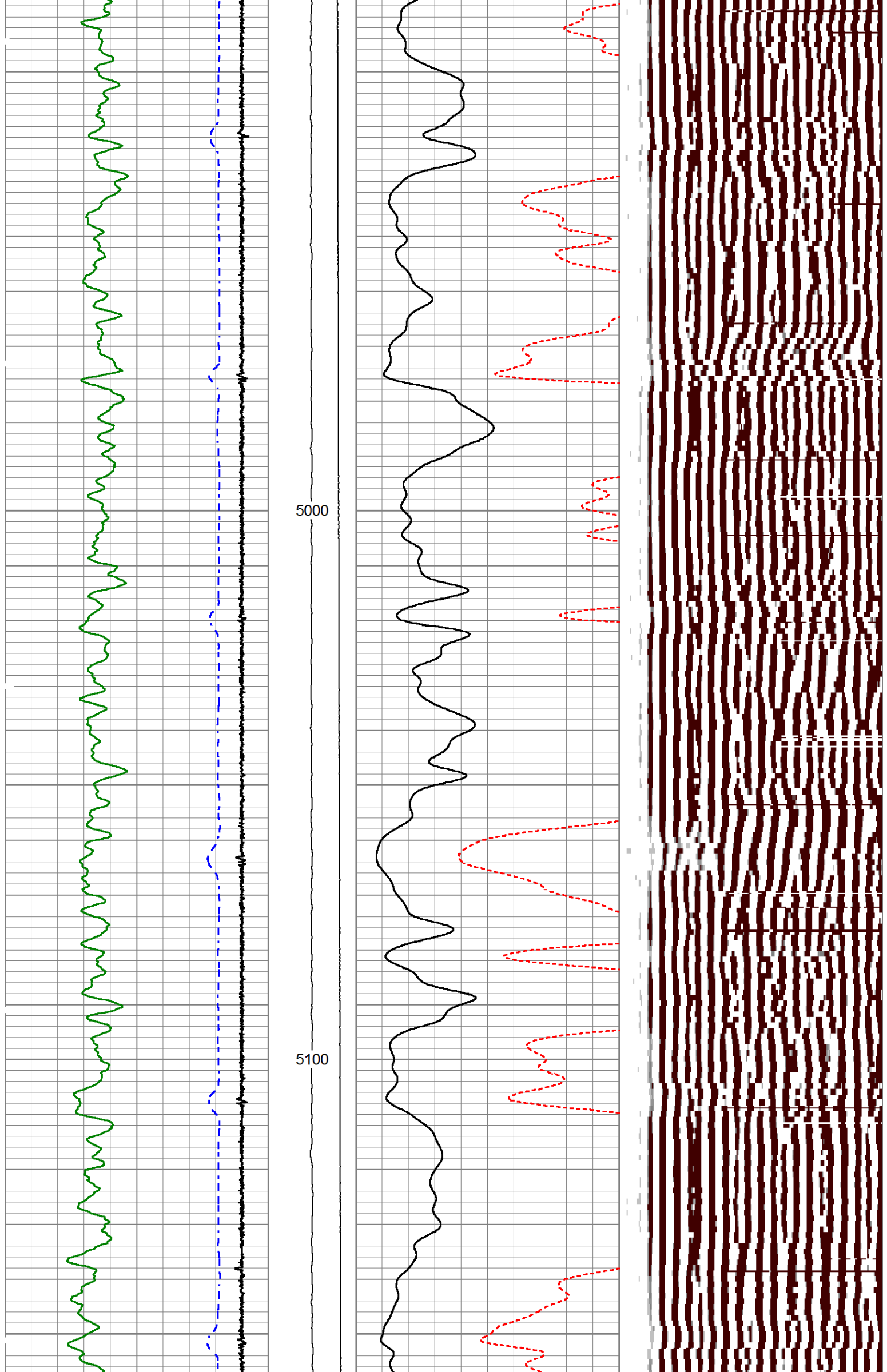
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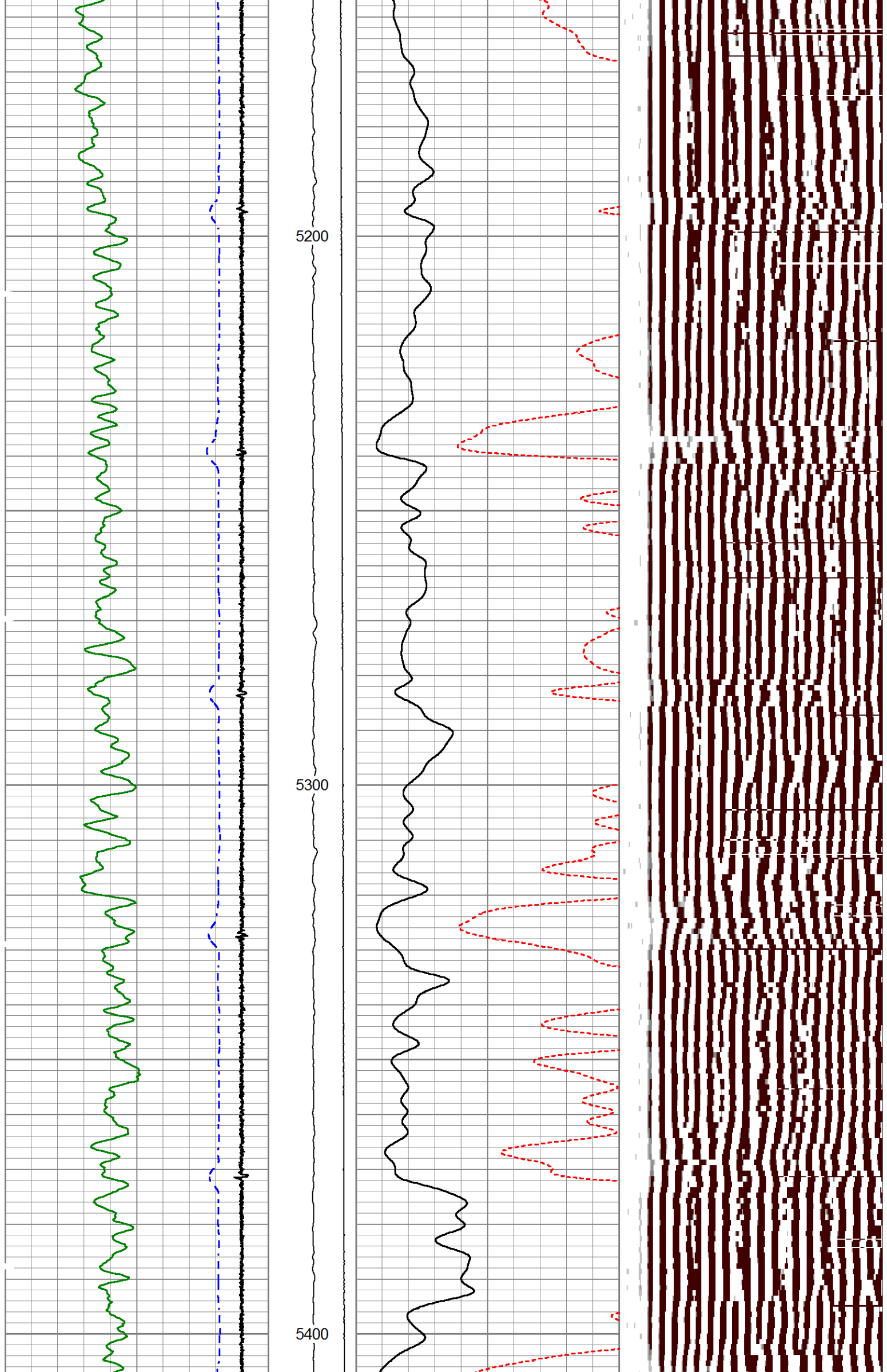


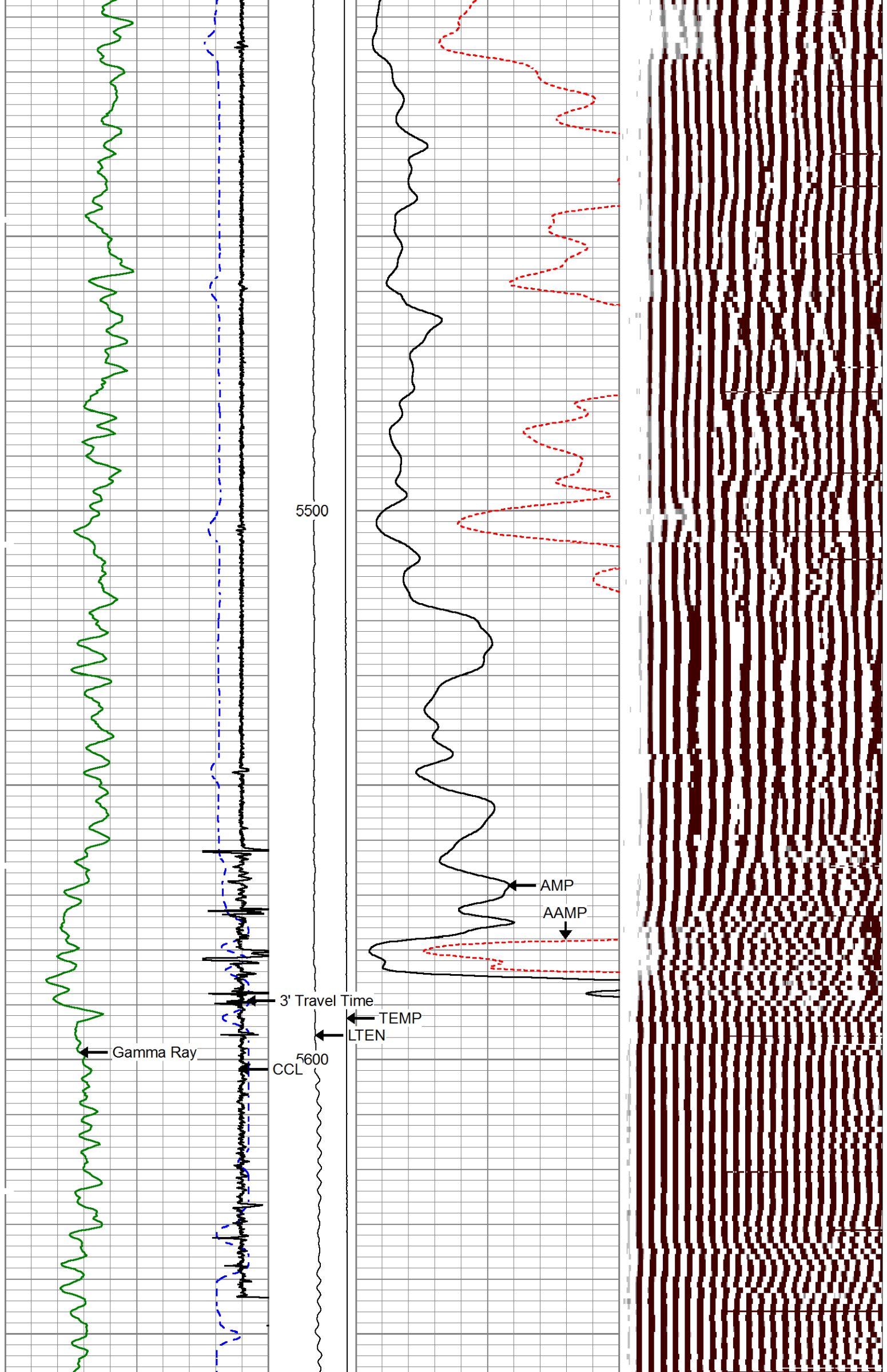


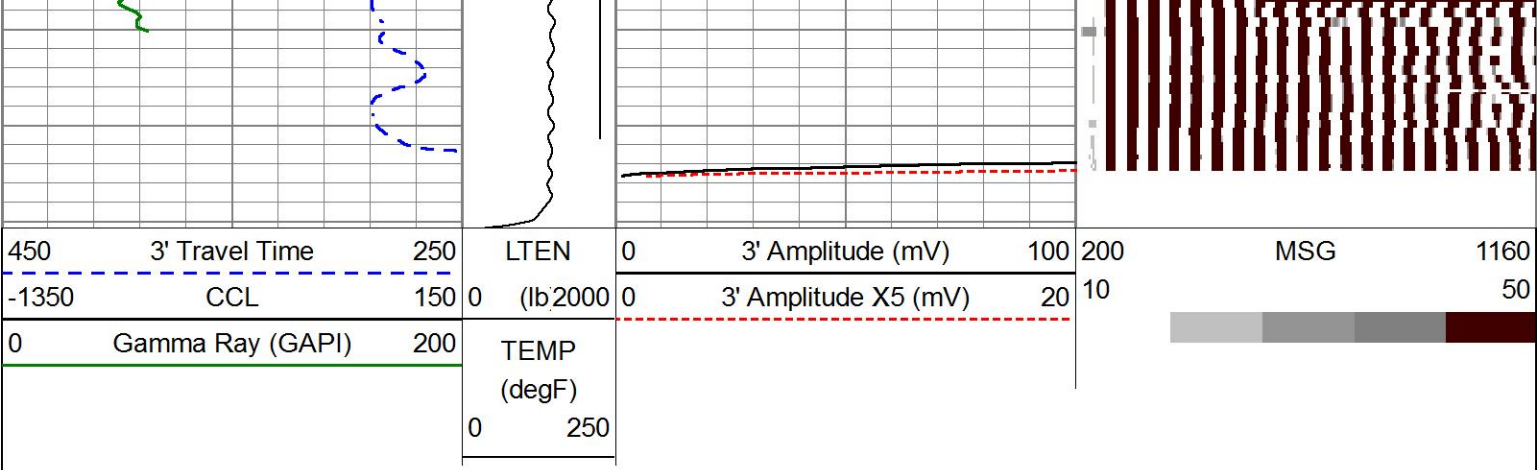








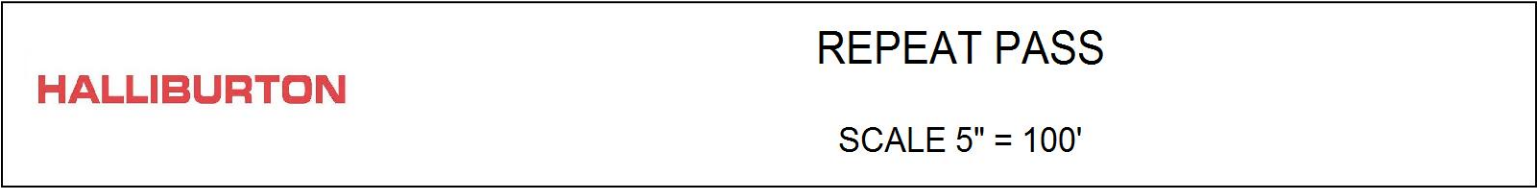




MAIN PASS

SCALE 5" = 100'

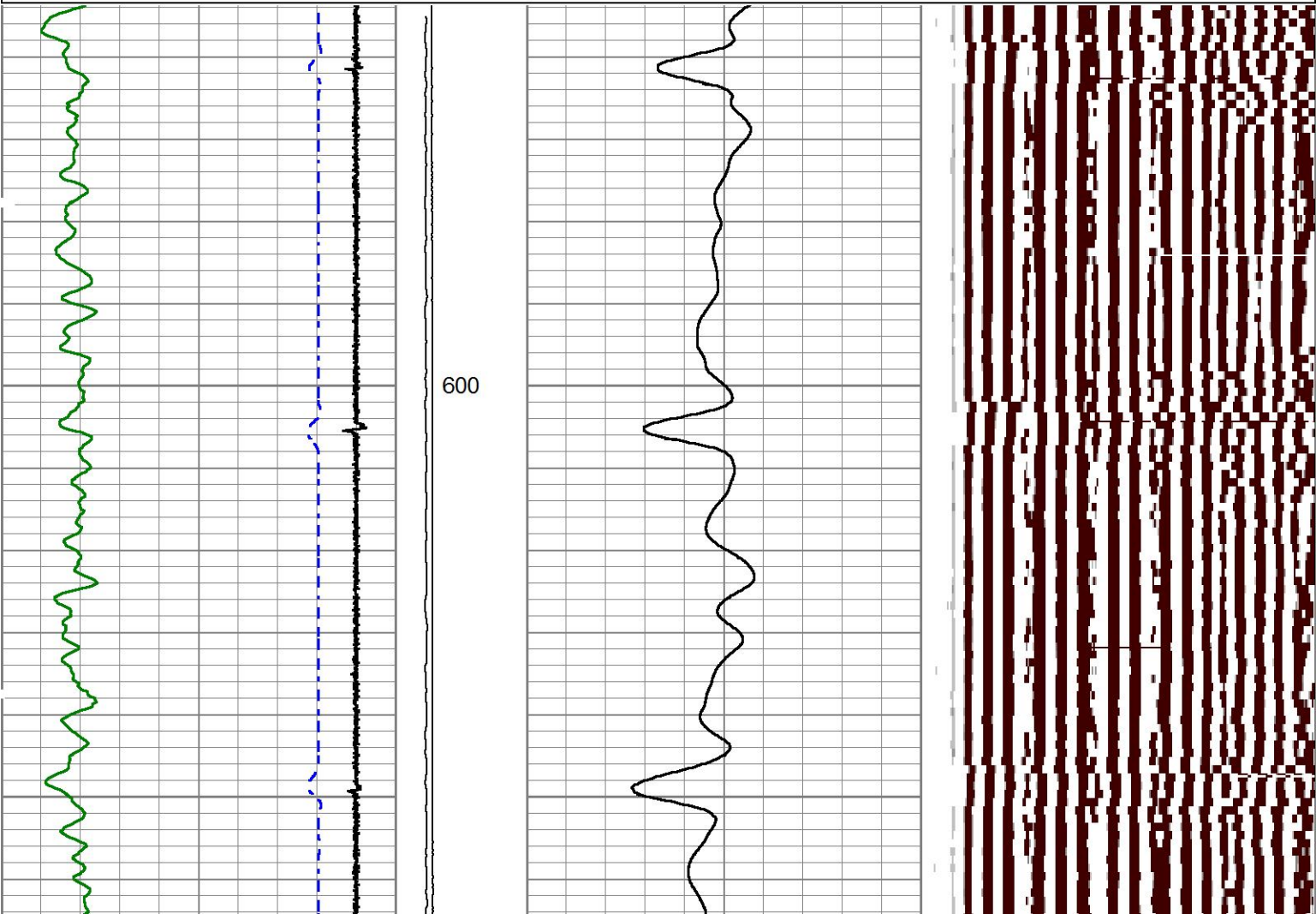
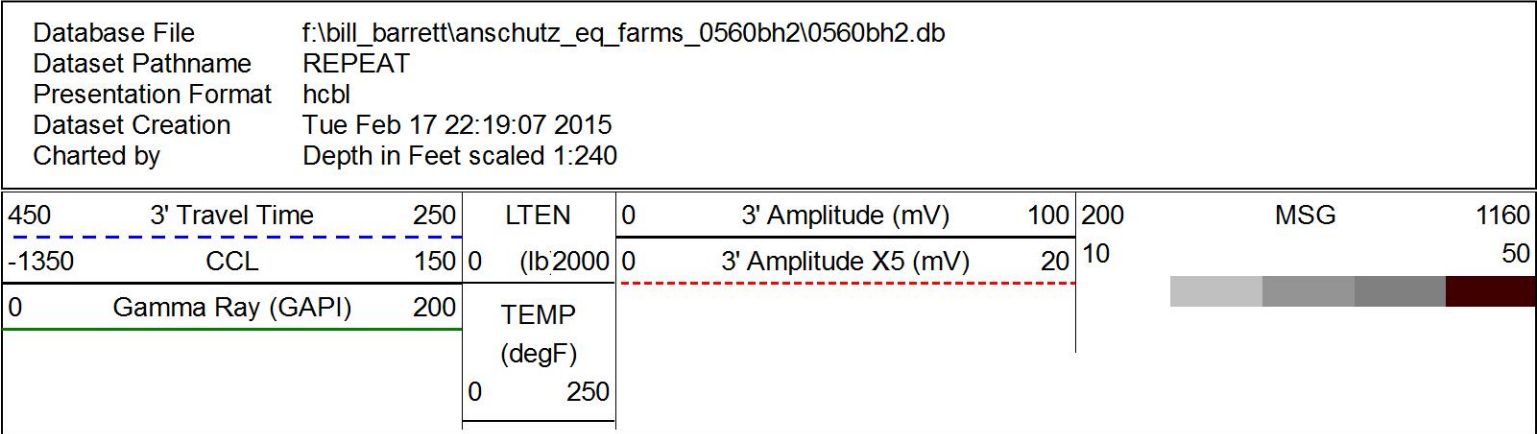
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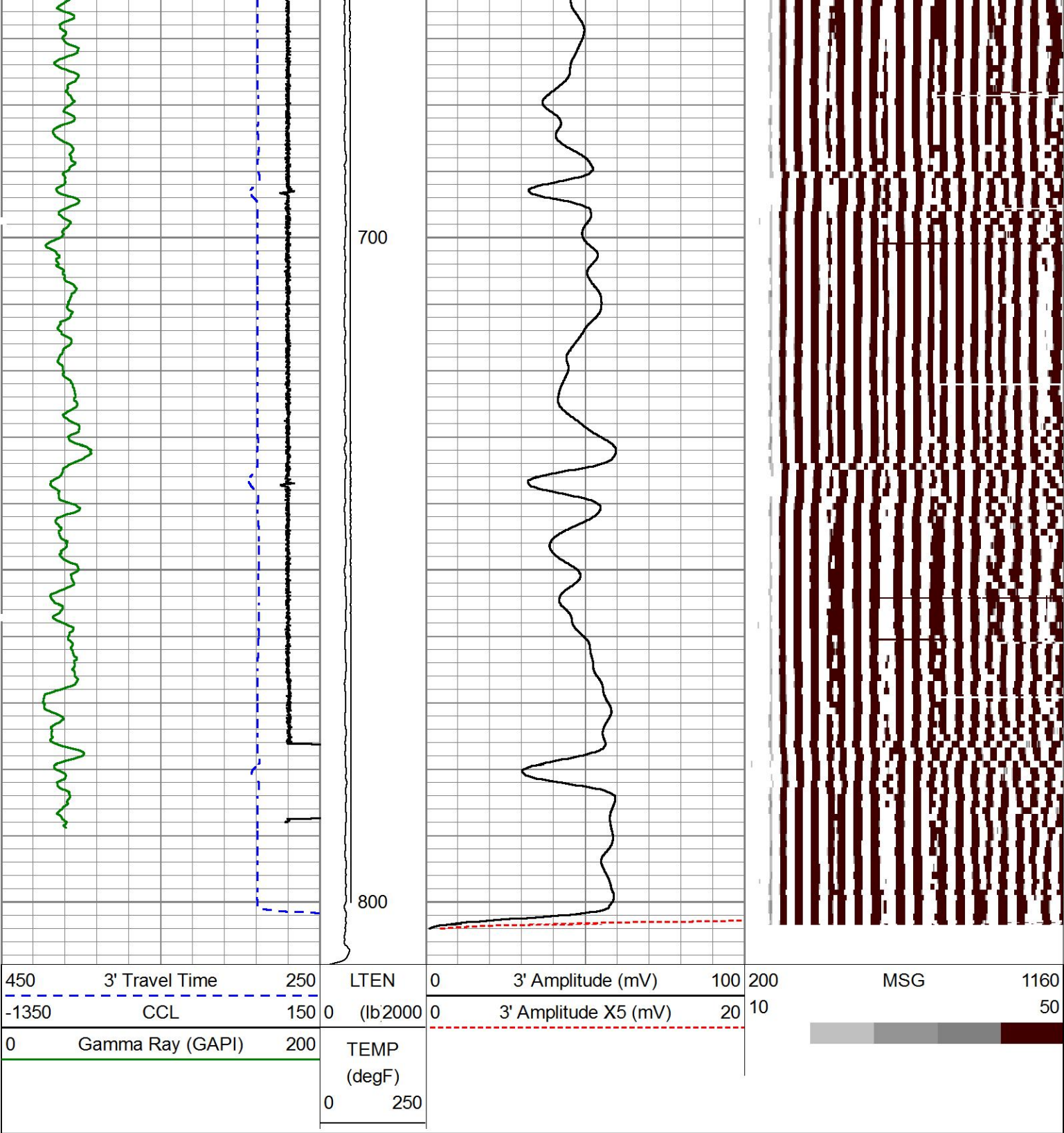


REPEAT PASS

SCALE 5" = 100'

HALLIBURTON





REPEAT PASS

HALLIBURTON

SCALE 5" = 100'

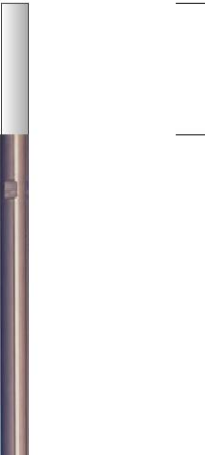
Log Variables DatabaseF:\BILL_BARRETT\VANSCHUTZ_EQ_FARMS_0560BH2\0560bh2.db
Dataset field/well/run1/REPEAT

Top - Bottom

BHTEMP_Src	BHSAL2	BHSAL1	POROS2	POROS1	LTH	UHSGC	RHOCF
1	0	1	0	1	Sandstone	1	0.25
SO in 0	BORSAL kppm 150	CASED? Yes	MSGGN 1	USERFTT usec/ft 0	ZREF MRayl 1.7	CASEWGHT lb/ft 26	SRFTEMP degF 0
MudWgt lb/gal 9.5	CASETHCK in 0	CASEOD in 7	PERFS 0	TDEPTH ft 0	BOTTEMP degF 100	BITSIZE in 10	

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Calibration Report						
Database File	F:\BILL_BARRETT\ANSCHUTZ_EQ_FARMS_0560BH2\0560bh2.db					
Dataset Pathname	REPEAT					
Dataset Creation	Tue Feb 17 22:19:07 2015					
Cement Bond Log Shop Calibration Report						
Serial-Model:		11923474-A				
Calibration Performed:		Tue Feb 17 13:24:09 2015				
Free Pipe Calibration						
TT	Measured	289.0	Units	usec		
Amplitude		427.8		mV		
Log Base Line		-5.3		mV		
Calibration References and Gain						
Name	Value		Units			
Pipe O.D.	7.000		in			
Pipe Weight	26.0		lb/ft			
Pipe Ref. Amp.	62.2		mV			
Amp. Gain	0.144					
Gamma Ray Calibration Report						
Type / Serial:		002 / 12098992				
SHOP CALIBRATION		Tue Feb 17 12:18:18 2015				
	Counts/Sec.	Gain	Offset	Jig	Units	
Background	38.5				cps	
Calibrator	299.1				cps	
		1.6614			GAPI/cps	
PRIMARY VERIFICATION		Tue Feb 17 12:20:36 2015				
Background	62.6				cps	
Calibrator	493.5				cps	
Difference				430.9	GAPI	
BEFORE SURVEY VERIFICATION						
Background	0.0				cps	
Calibrator	0.0				cps	
Difference				0.0	GAPI	
AFTER SURVEY VERIFICATION						
Background	0.0				cps	
Calibrator	0.0				cps	
Difference				0.0	GAPI	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
CCL	21.09		STNDCH-STND_CH 1.4375 IN CABLE HEAD	1.50	1.44	1.00

GR	18.83		TTTCU-002 (12098992) Through Tubing Telemetry Cartridge - Ultrawire	7.65	1.69	100.00
Temp	9.11					
TT3FT	6.86		XHU-003 (11721043) Crossover Halliburton 1553 to Ultrawire	1.58	1.69	7.00
AMP3FT	6.86					
WVF5FT	5.90					
FrameCnt	2.38		CENT-CASTM-CENT CAST M INLINE CENTRALIZER	2.16	3.13	25.00
TLINITCNT	2.38					
CblCTT	2.38					
CblCCsgWgt	2.38					
CblCCsgOD	2.38					
CblCAmp	2.38					
CblBLine	2.38					
CblTTThresh	2.38					
CblAGate	2.38					
CblLWvCnt	2.38					
CblCStat	2.38					
CblIVolt	2.38					
CblITemp	2.38					
CblSeqNum	2.38		HCBLM-A (11923474) Halliburton HCBLM Tool	9.38	2.75	116.00
CblTStat	2.38					
WVF3FT	2.38					
HVOLTX	0.00					
ITEMPX	0.00					
TSTAMP	0.00					
XHUCUR4	0.00					
XHUCUR3	0.00					
XHUCUR2	0.00					
XHUCUR1	0.00					
XHUSTAT	0.00					
XHUTEMP	0.00					
XHUERR2	0.00					
XHUERR1	0.00		CENT-CASTM-CENT CAST M INLINE CENTRALIZER	2.16	3.13	25.00
LOCTIM	0.00					
UTCTIM	0.00					
LLMTEN	0.00		BUL-006 (000002) Bullnose Terminator	0.22	1.69	1.20
Dataset: 0560bh2.db: field/well/run1/REPEAT Total length: 24.66 ft Total weight: 275.20 lb O.D.: 3.13 in						

Company	BILL BARRETT CORPORATION				
Well	ANSCHUTZ EQ FARMS 0560BH2				
Field	WATTENBERG				
County	WELD	State	CO		
HALLIBURTON	CEMENT BOND				
	FIELD COPY				