



CEMENT BOND LOG WITH GAMMA RAY

MIDWEST WIRELINE

Comp. Castle Resources, Inc.
Well Brown #1 OWWO
Field Wildcat
Co. Russell
State Kansas

Company **Castle Resources, Inc.**
Well **Brown #1 OWWO**
Field **Wildcat**
County **Russell** State **Kansas**

Location: API # : 15-167-23566-00-00
C N/2 SW
1908' FSL & 1439' FWL
SEC 3 TWP 11S RGE 13W
Permanent Datum GL Elevation 1721'
Log Measured From KB 8' Above Perm. Datum
Drilling Measured From KB
Other Services
None
K.B. 1729'
D.F. 1727'
G.L. 1721'

Date of Service	12/14/2020			
Run Number	One			
Depth Driller or PBTD	3625'			
Depth Logger	3150'			
Bottom Log Interval	3148'			
Top Log Interval	900'			
Open Hole Size	7.875"			
Type Fluid	Water			
Fluid Level	Full			
Fluid Density	N/A			
Max. Recorded Temperature	113 Deg F			
Max. Wellhead Pressure	0 PSI			
Wellhead Connection	N/A			
Estimated Cement Top	1045'			
Unit Number	106			
Wireline Size	0.288"			
Location	Hays			
Recorded By	T. Martin			
Witnessed By	Jerry Green			
Tubing Record	Size	WFt	Top	Bottom
Surface Casing	8.625"	23#	00'	436'
Production Casing	5.5"	15.5#	00'	TD
Liner Record				

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Waldo, KS, 2 E to 190th, 1/2 N, E into

THANK YOU FOR USING MIDWEST WIRELINE LLC!

Your Midwest Wireline Crew

Tool Data - Services

Serial Number

Engineer: T. Martin
Operator:
Operator:
Operator:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\castle_brown a #1-3_cbl.db
Dataset field/well/CBL/pass3.11/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 113	CASEOD in 5.5	CASETHCK in 0.0275	CASEWGHT lb/ft 15.5	MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.08
PERFS 0	PPT usec 0	SRFTEMP degF 30	TDEPTH ft 3150				

Variable Description

BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness

CASEWGHT : Casing Weight
MAXAMPL : Maximum Amplitude
MINAMPL : Minimum Amplitude
MINATTN : Minimum Attenuation

PERFS : Perforation Flag
PPT : Predicted Pipe Time
SRFTEMP : Surface Temperature
TDEPTH : Total Depth



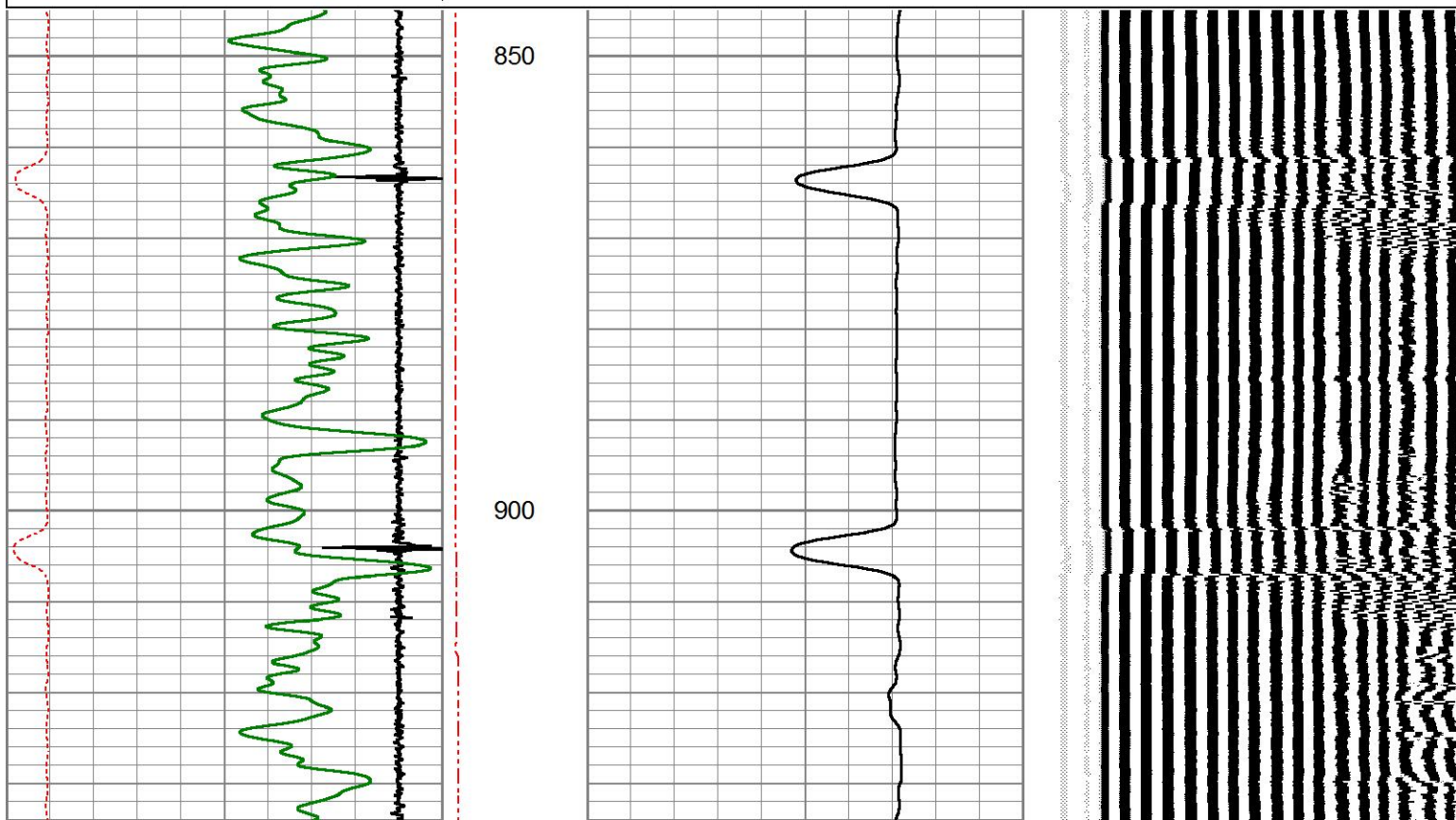
MIDWEST WIRELINE

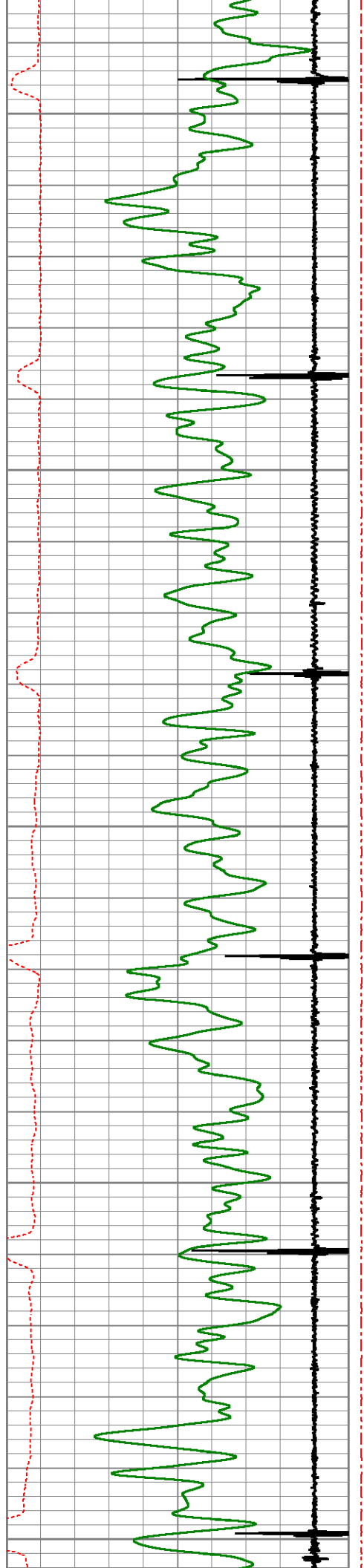
MAIN LOG

ZERO PSI APPLIED AT SURFACE

Database File castle_brown a #1-3_cbl.db
Dataset Pathname CBL/pass3.11
Presentation Format pinr_cbl
Dataset Creation Mon Dec 14 18:43:36 2020
Charted by Depth in Feet scaled 1:240

-9	Collar Locator	1	Line Tension	0	Amplitude (mV)	100	200	Variable Density (usec)	1200
0	Gamma Ray	150	0 (lb2000)						
274	3' Travel Time (usec)	174							





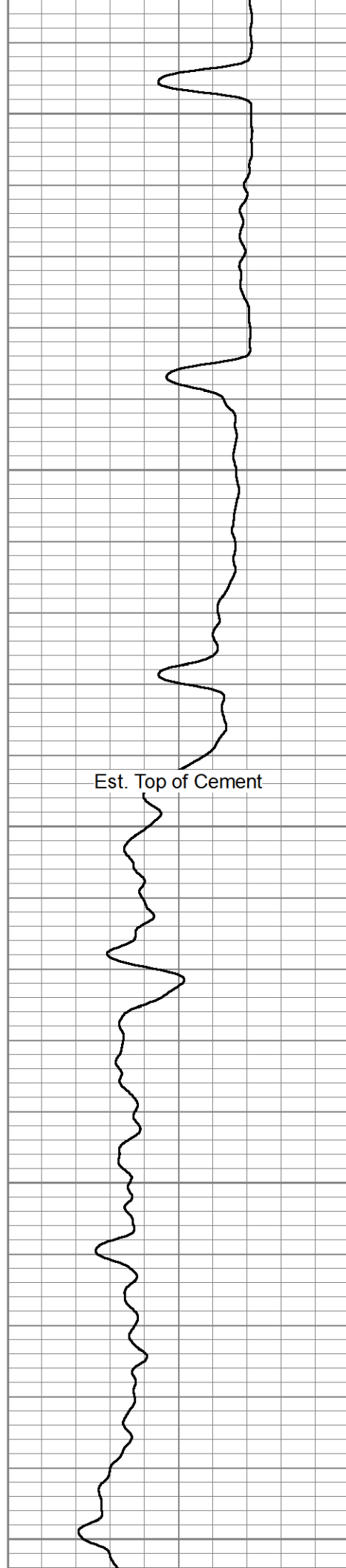
950

1000

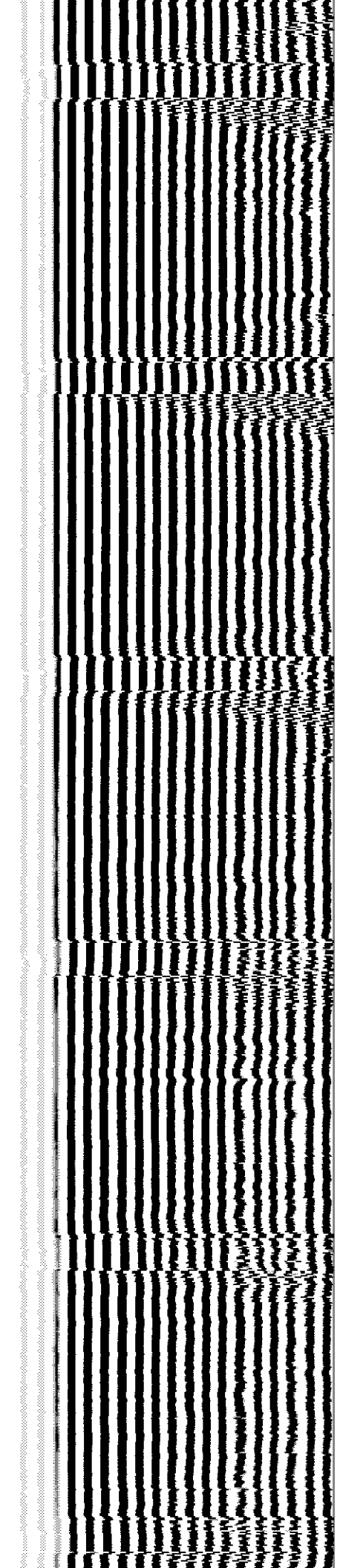
1050

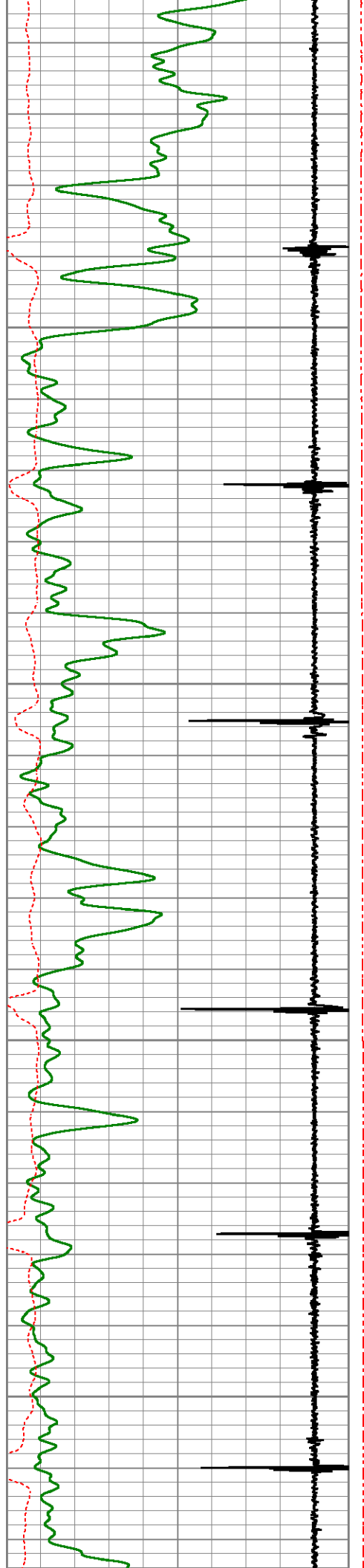
1100

1150



Est. Top of Cement



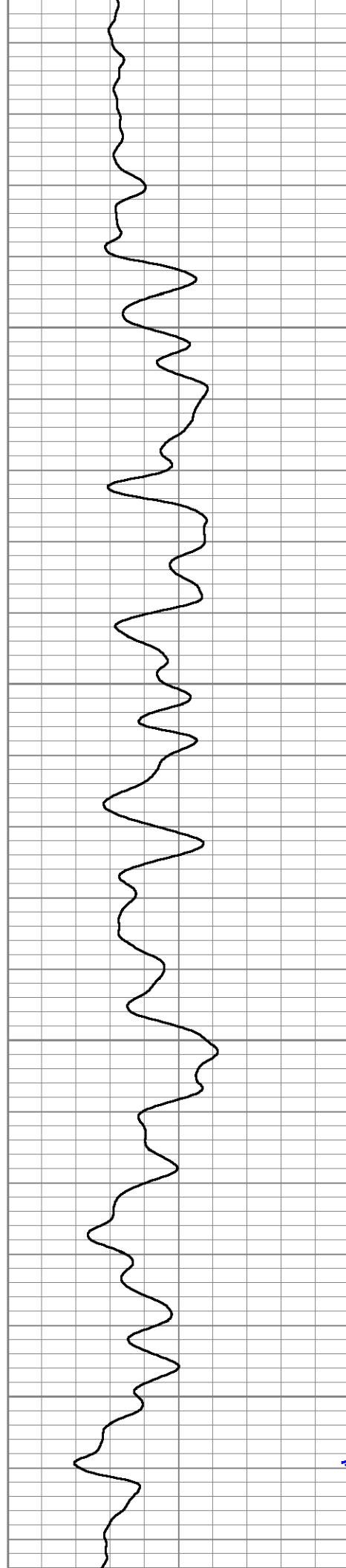


1200

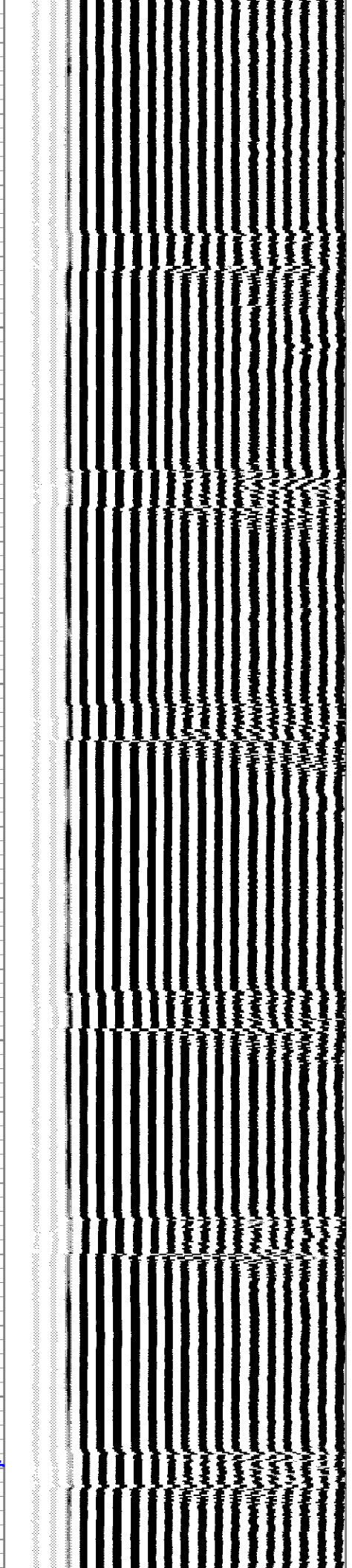
1250

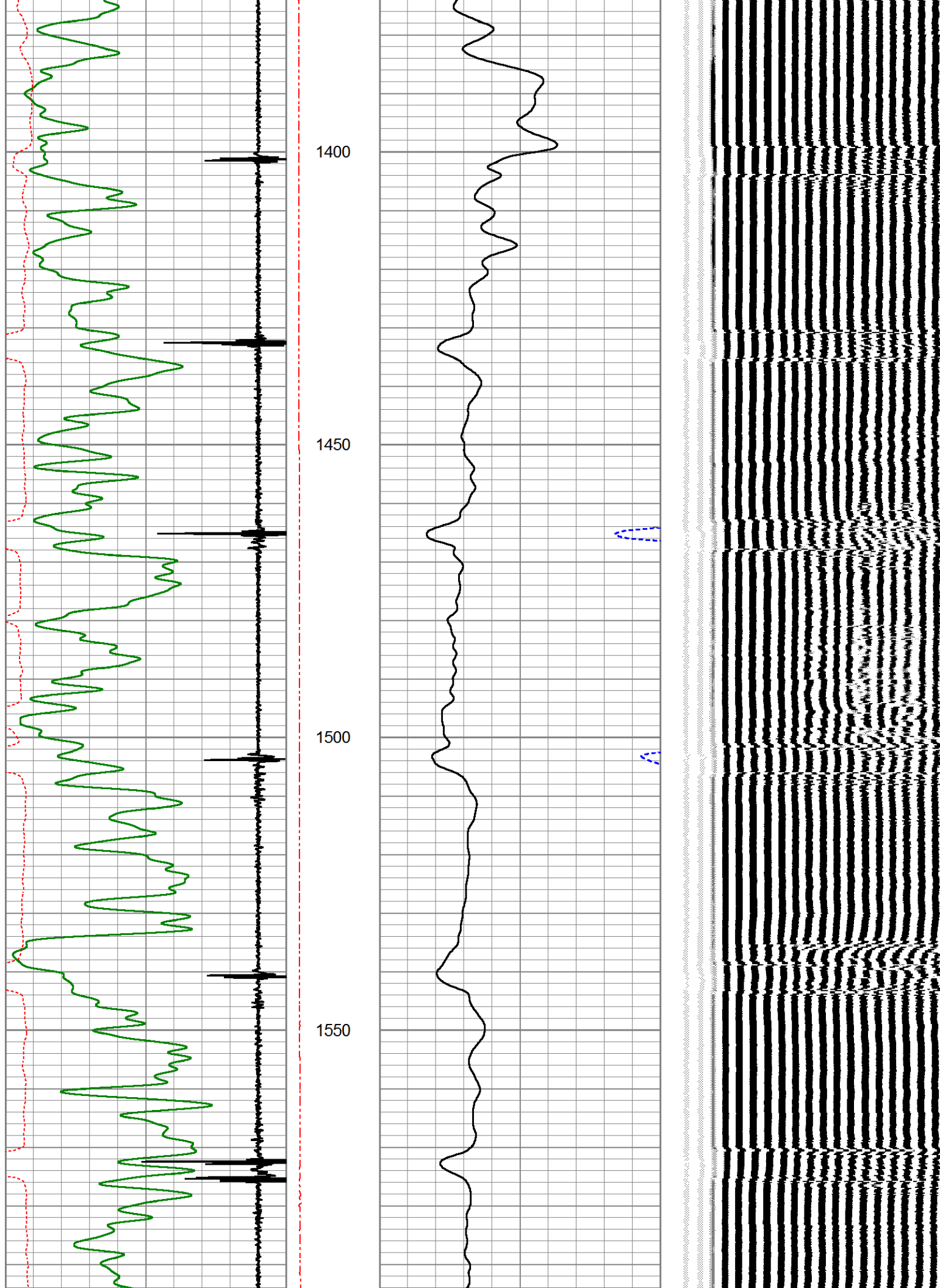
1300

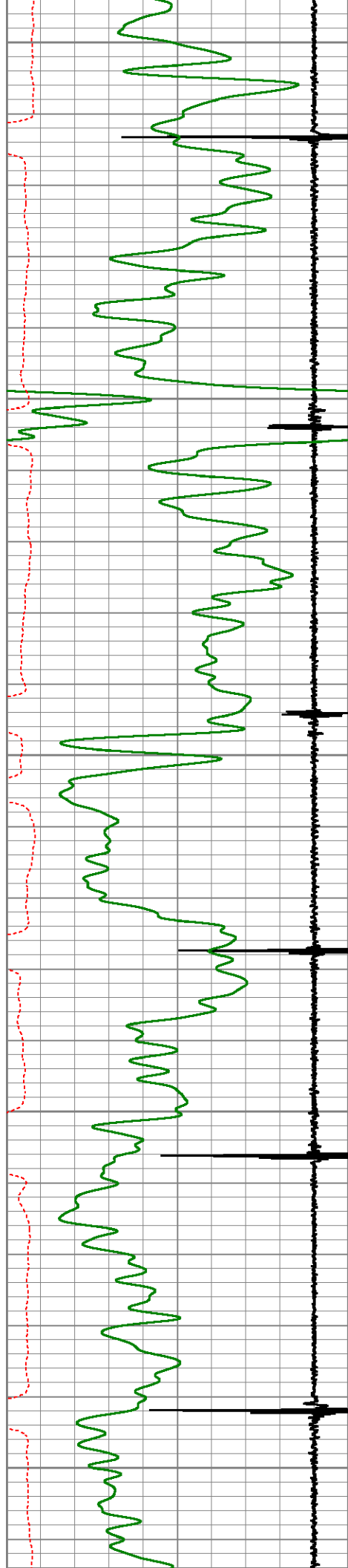
1350



h







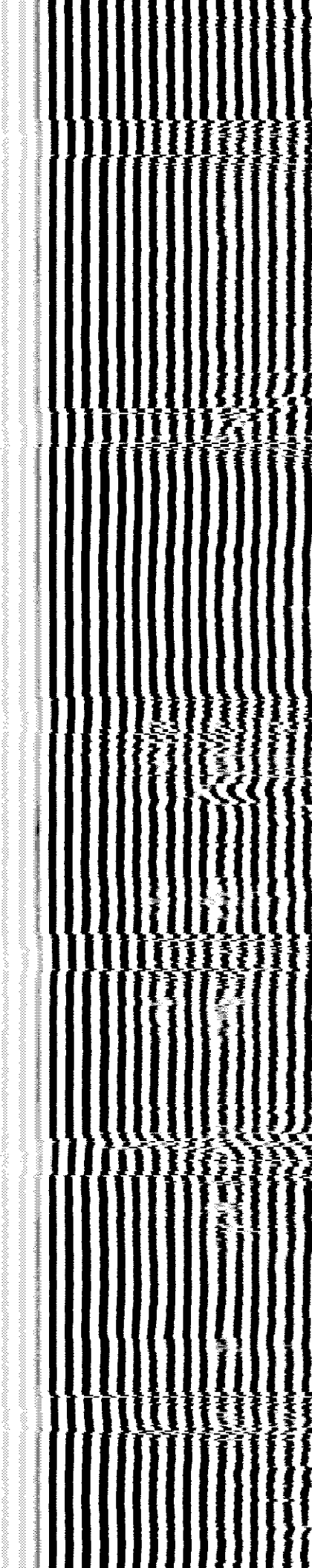
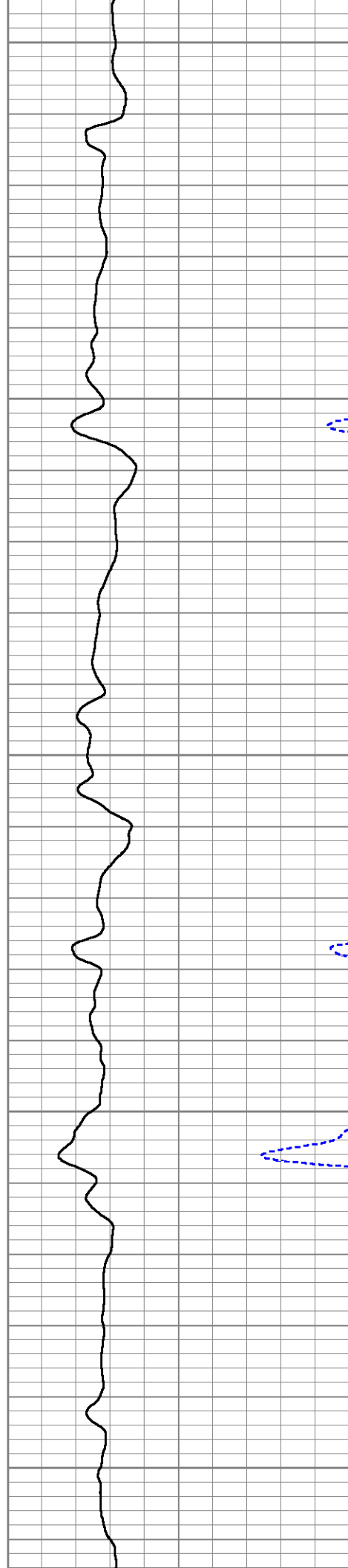
1600

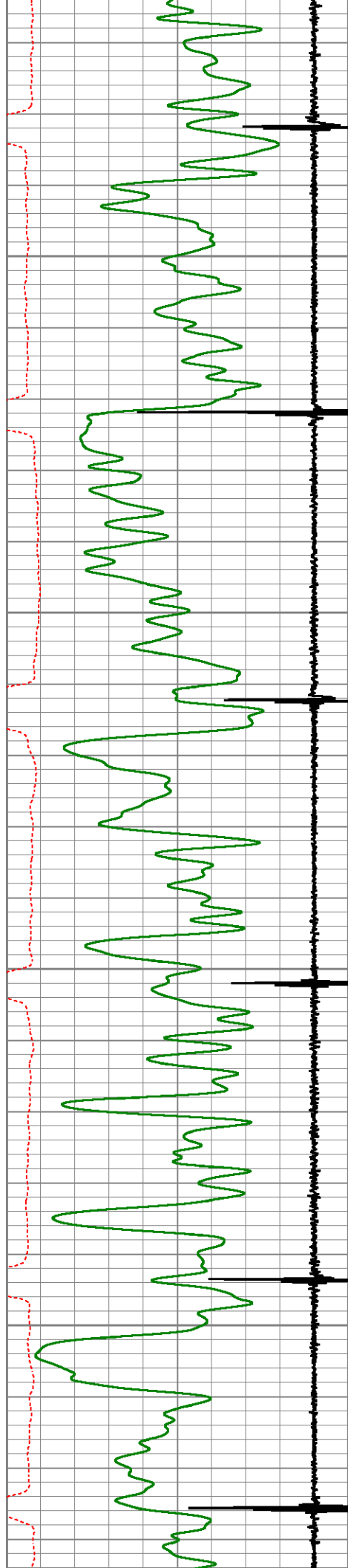
1650

1700

1750

1800



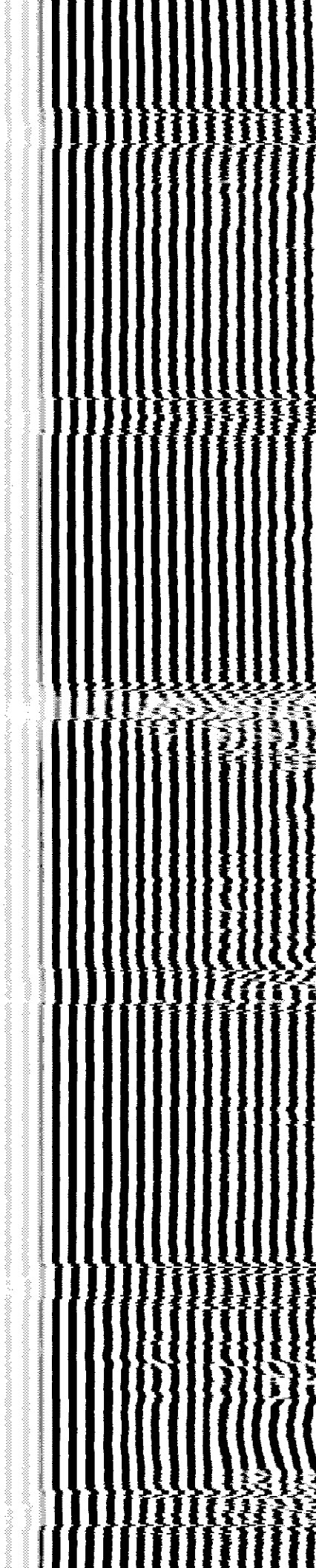
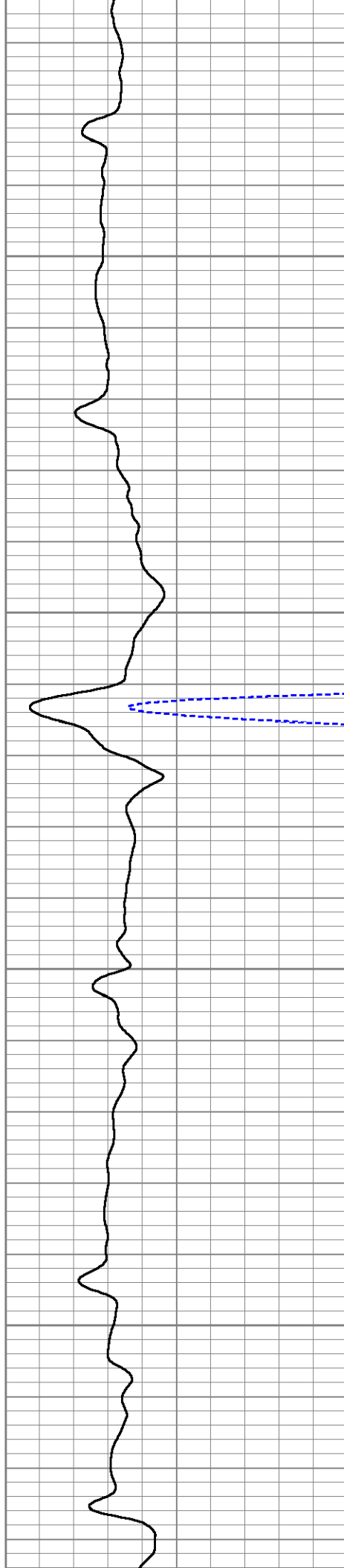


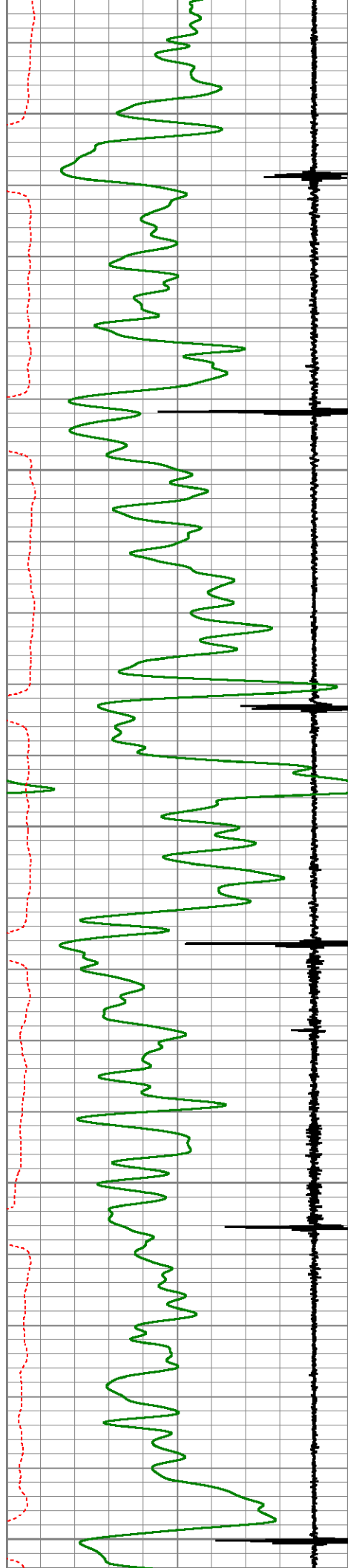
1850

1900

1950

2000





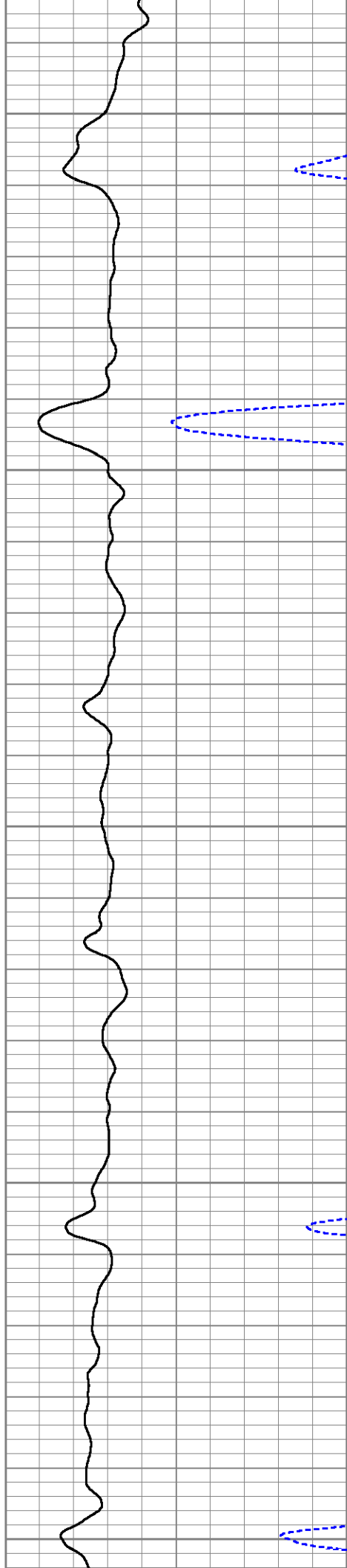
2050

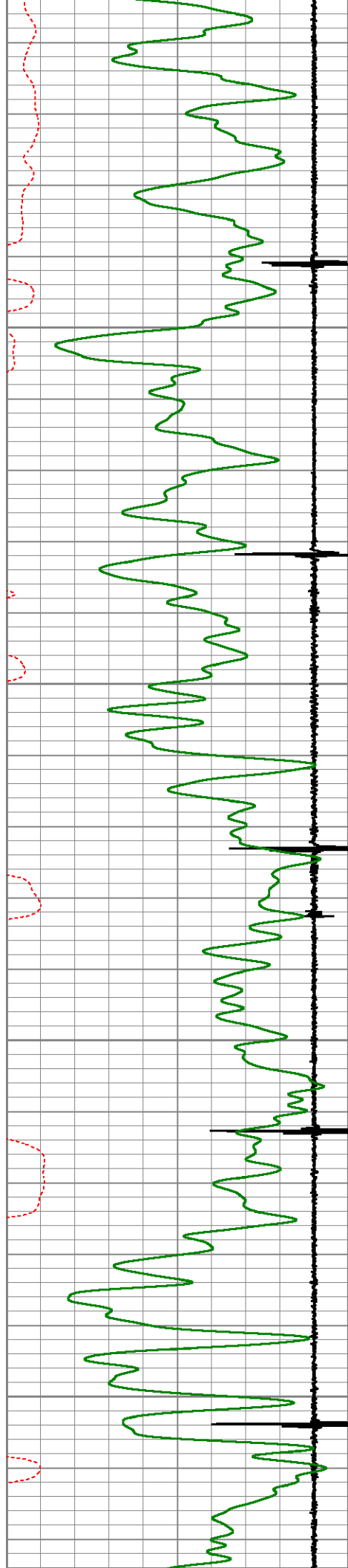
2100

2150

2200

2250



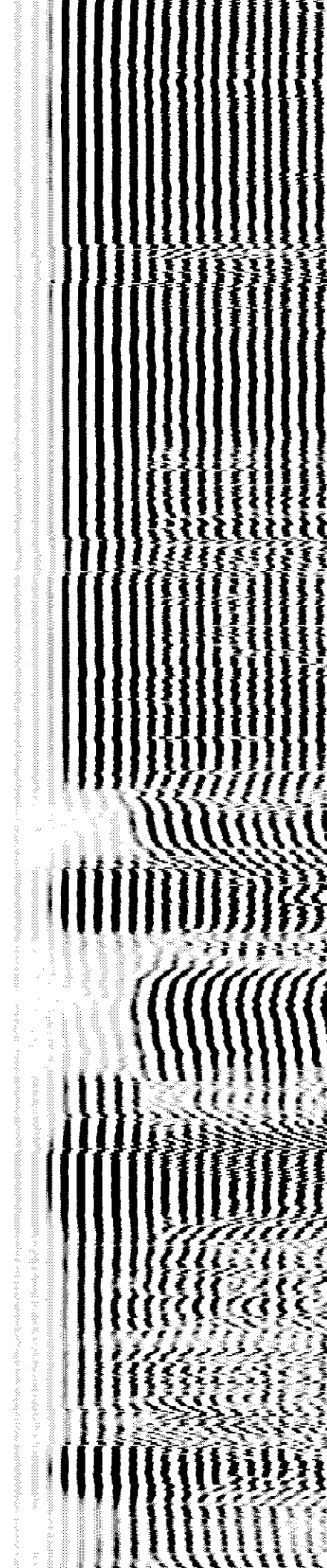
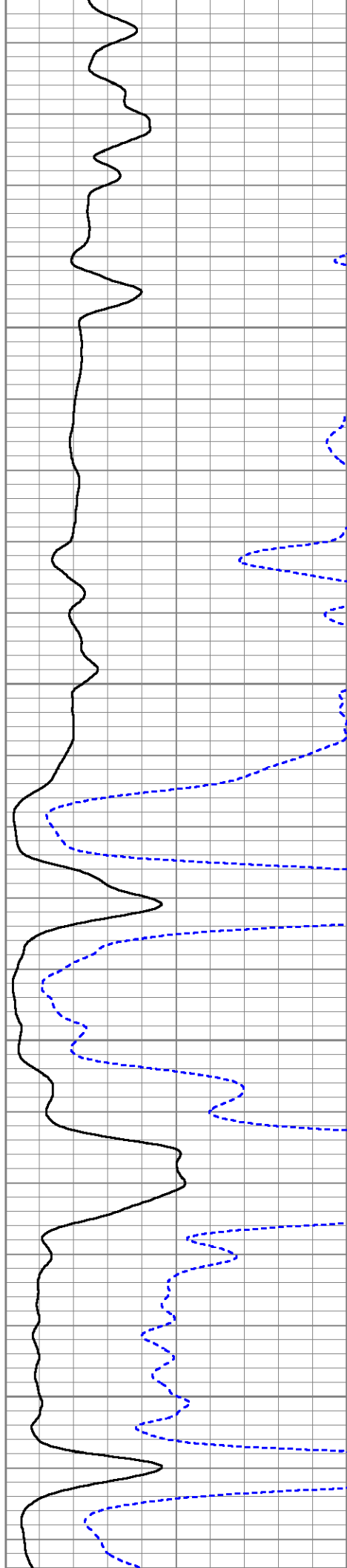


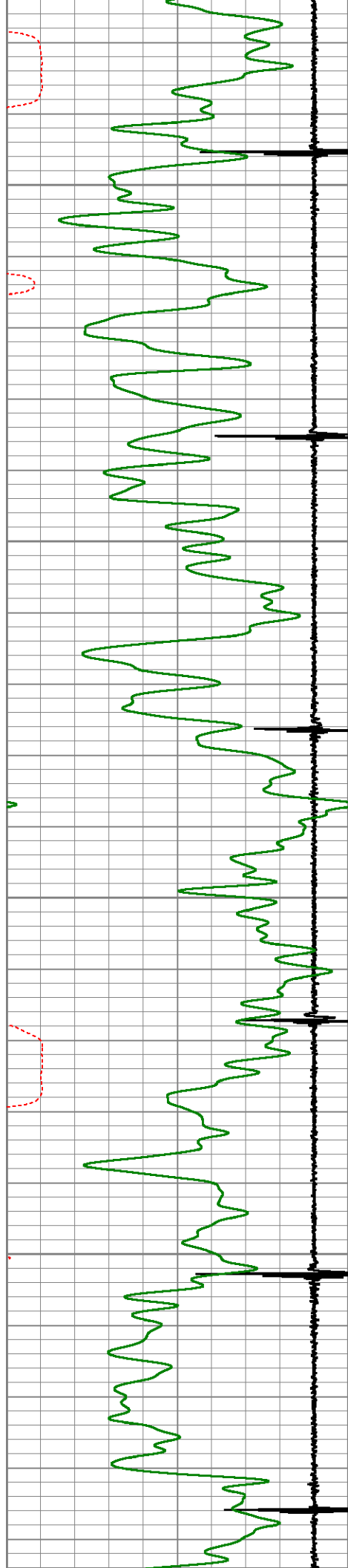
2300

2350

2400

2450



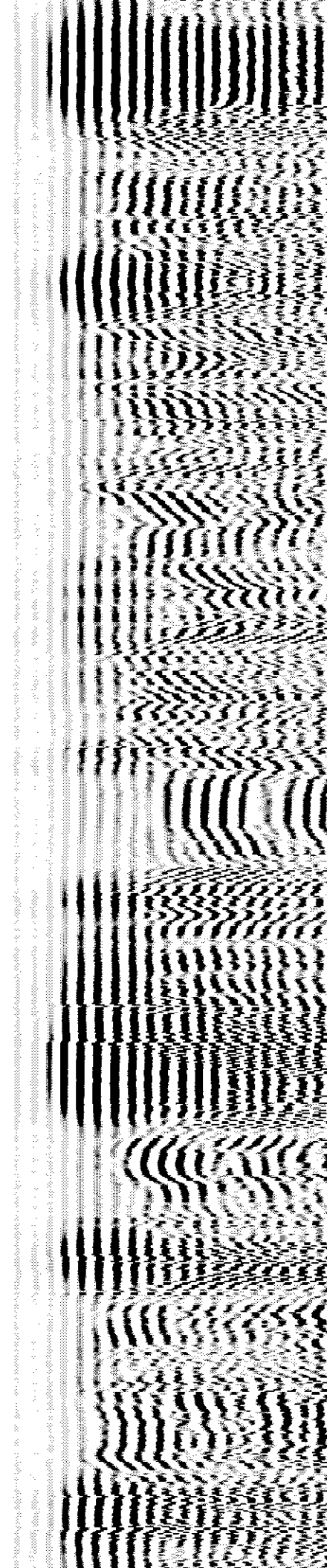
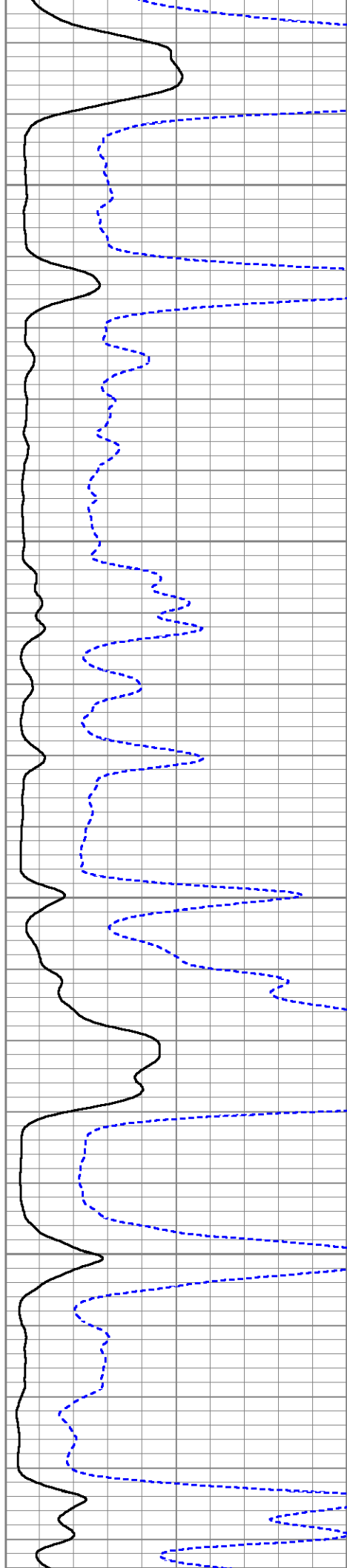


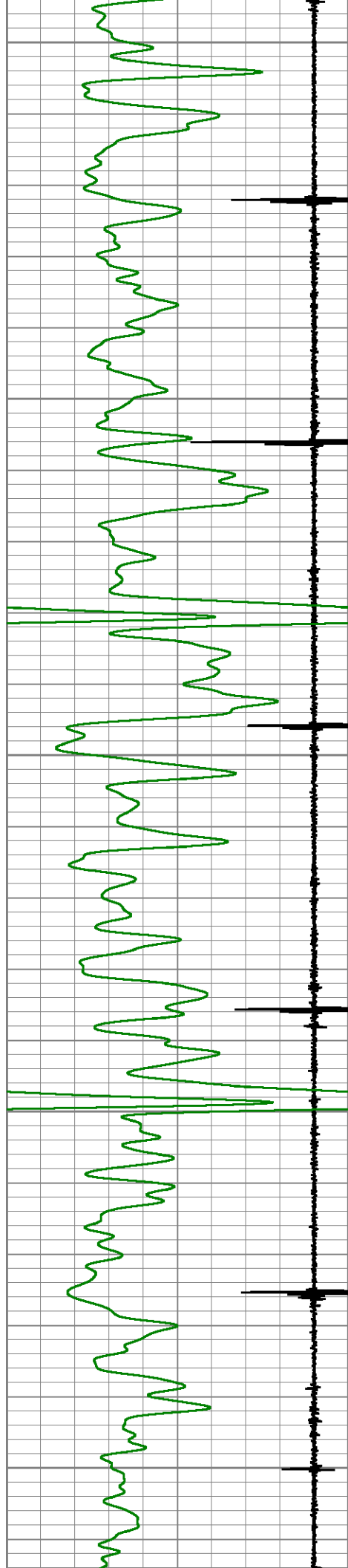
2500

2550

2600

2650





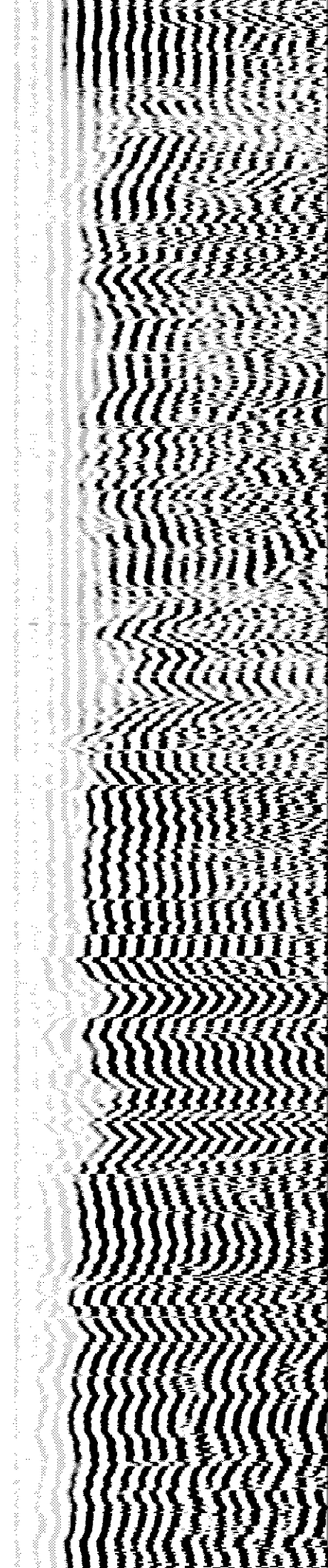
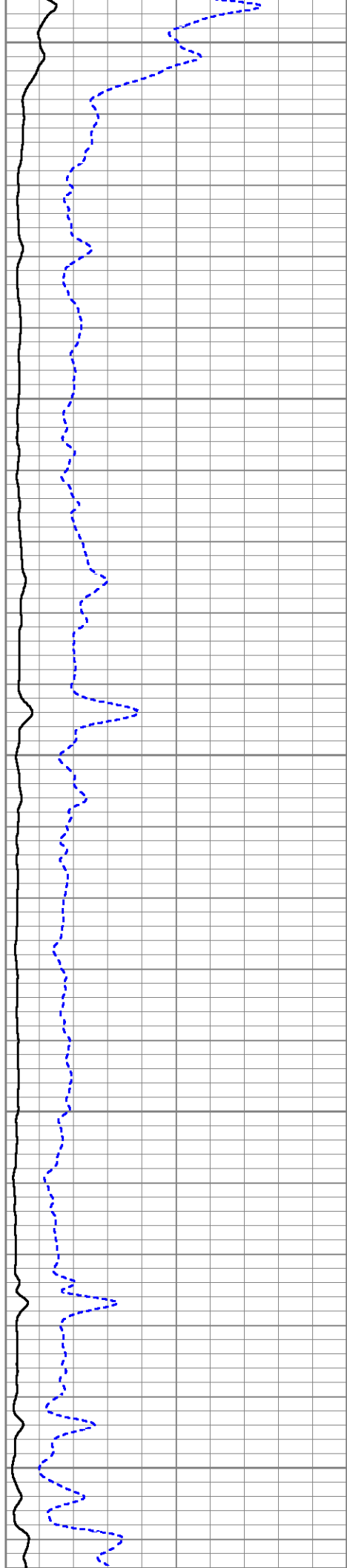
2700

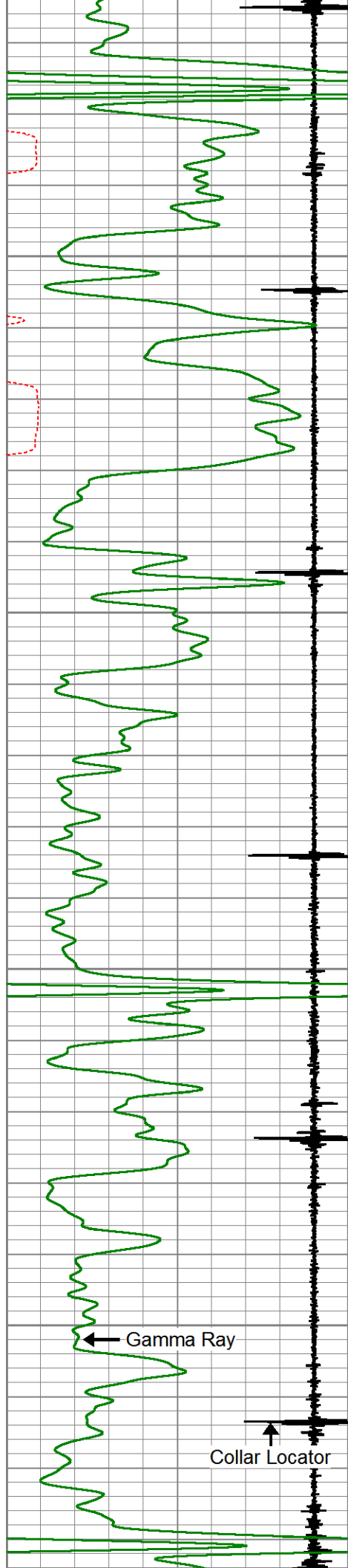
2750

2800

2850

2900





2950

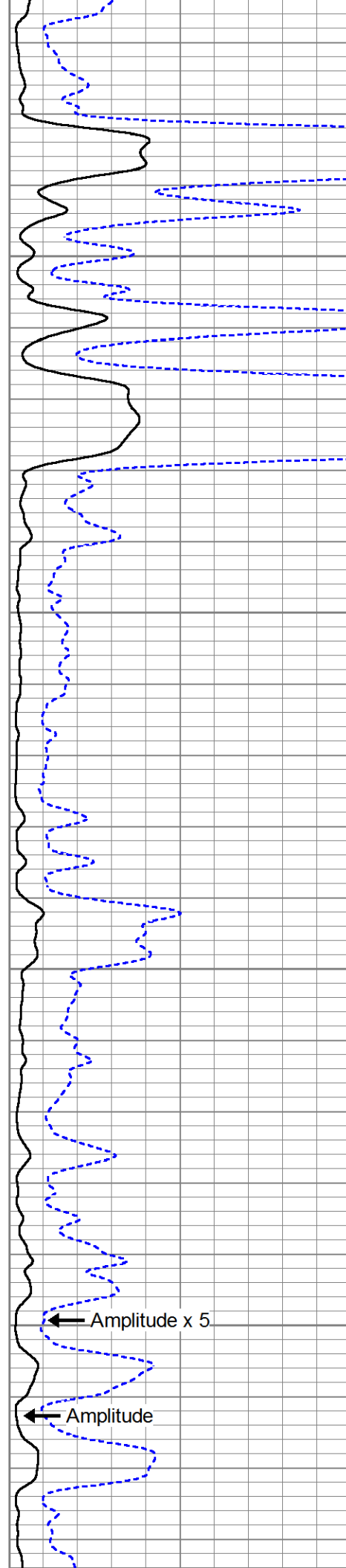
3000

3050

3100

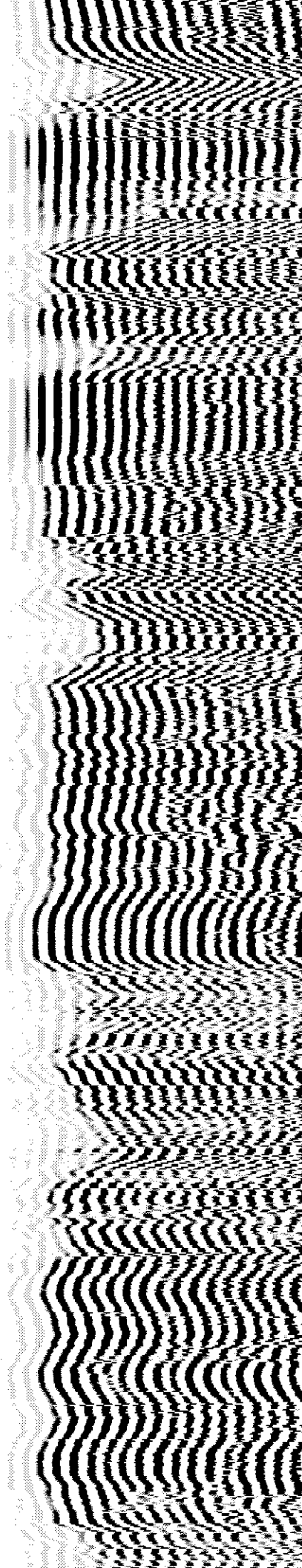
Gamma Ray

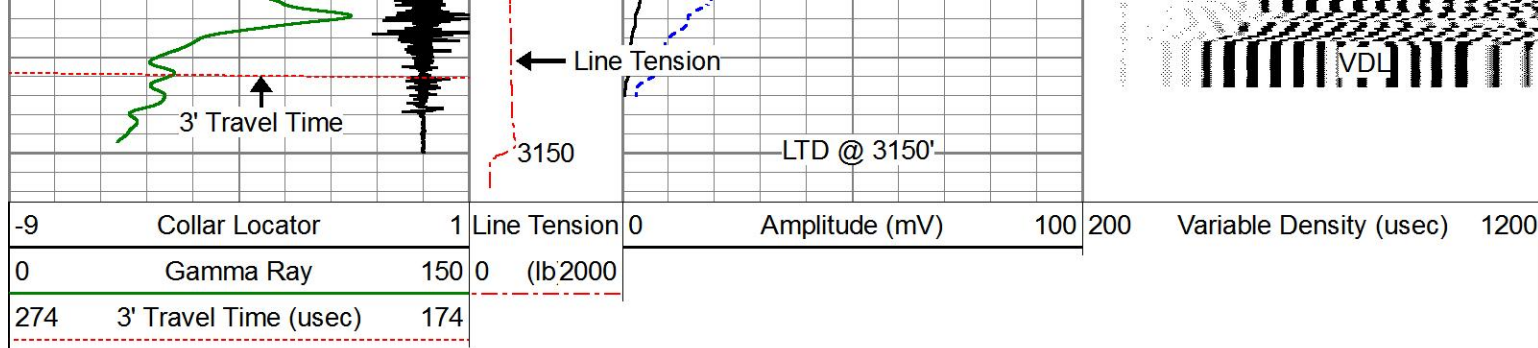
Collar Locator



Amplitude x 5

Amplitude



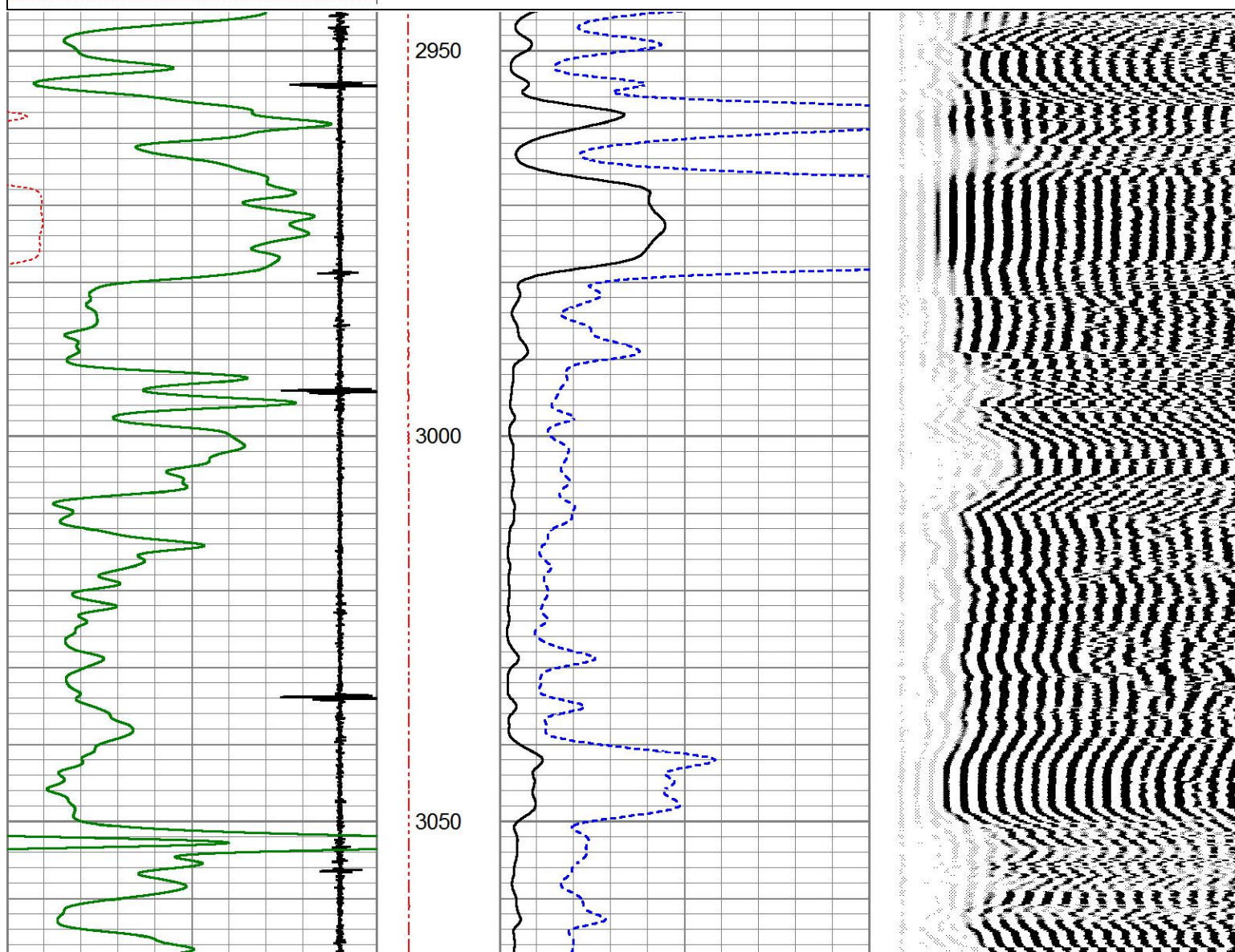
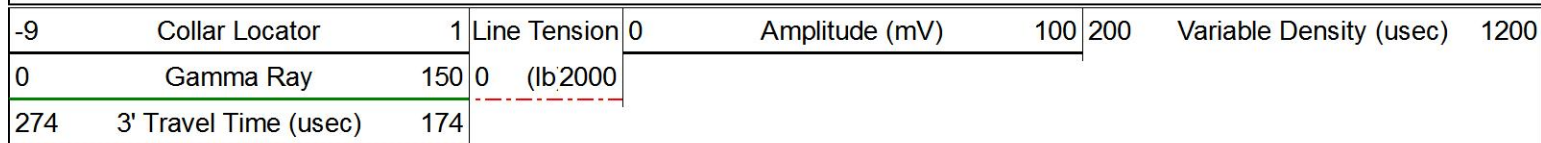


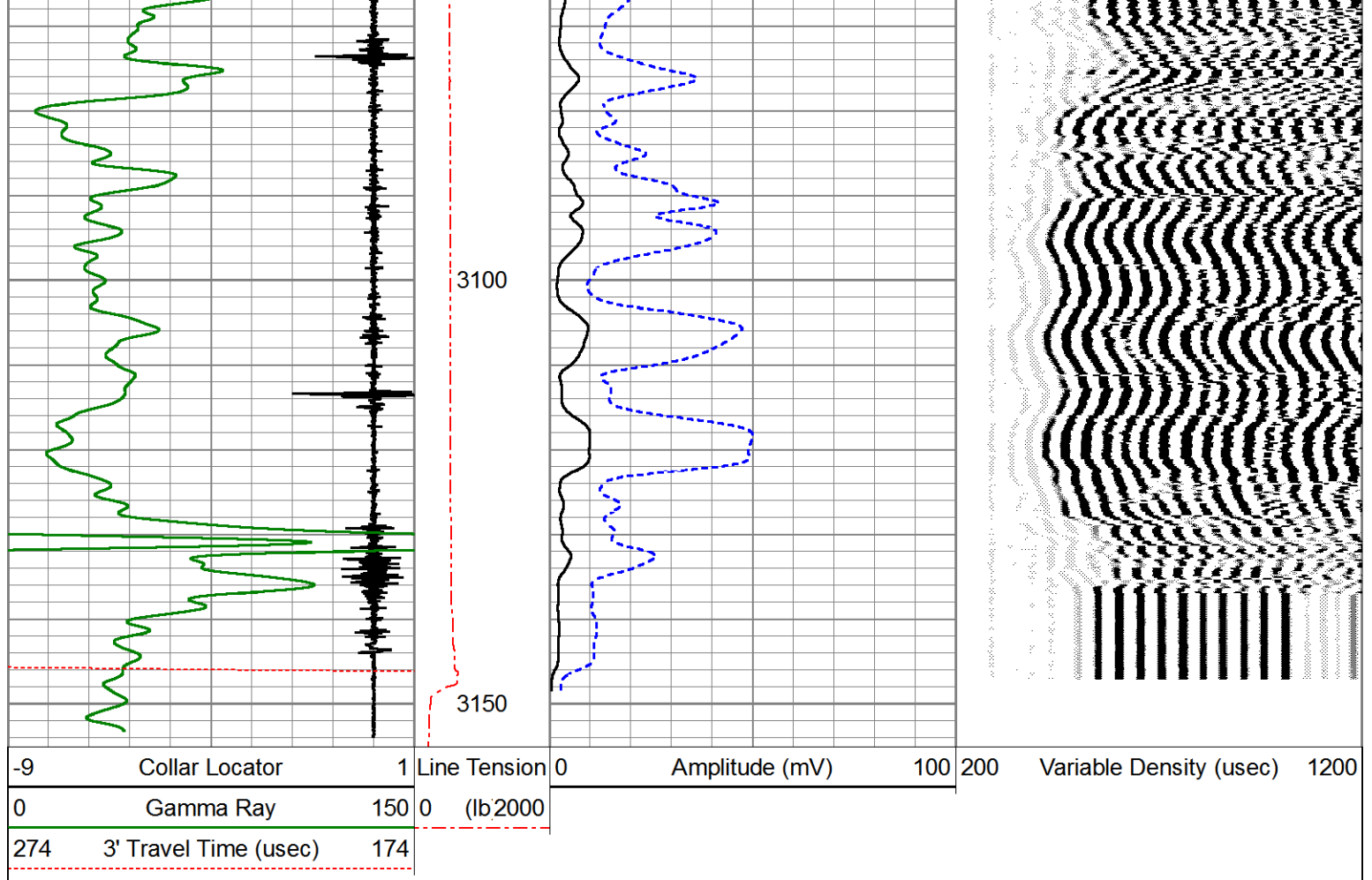
MIDWEST WIRELINE

REPEAT SECTION

ZERO PSI APPLIED AT SURFACE

Database File castle_brown a #1-3_cbl.db
 Dataset Pathname CBL/pass2
 Presentation Format pinr_cbl
 Dataset Creation Mon Dec 14 17:56:14 2020
 Charted by Depth in Feet scaled 1:240





Calibration Report						
Database File	castle_brown a #1-3_cbl.db					
Dataset Pathname	CBL/pass3.11					
Dataset Creation	Mon Dec 14 18:43:36 2020					
Gamma Ray Calibration Report						
Serial Number:	060802					
Tool Model:	2 3/4" Probe					
Performed:	(Not Performed)					
Calibrator Value:	1.0					
Background Reading:	0.0		cps			
Calibrator Reading:	1.0		cps			
Sensitivity:	1.0000		/cps			
Segmented Cement Bond Log Calibration Report						
Serial Number:	PR-012					
Tool Model:	RBL-D					
Calibration Casing Diameter:	4.500		in			
Calibration Depth:	2308.085		ft			
Master Calibration, performed Wed Dec 09 10:03:44 2020:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	1.991	0.700	81.196	34.000	0.656

CAL	-0.004	2.462				
5'	-0.001	1.810	0.700	81.196	40.000	0.729
SUM						
S1	0.006	2.067	0.000	100.000	48.520	-0.299
S2	0.002	2.061	0.000	100.000	48.588	-0.117
S3	0.002	2.023	0.000	100.000	49.495	-0.110
S4	0.002	1.934	0.000	100.000	51.757	-0.102
S5	0.002	1.848	0.000	100.000	54.148	-0.091
S6	0.002	1.847	0.000	100.000	54.200	-0.086
S7	0.002	1.908	0.000	100.000	52.462	-0.093
S8	0.001	2.027	0.000	100.000	49.363	-0.067

Air Zero Calibration, performed Mon Dec 14 17:40:32 2020:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.003	0.000	-0.002
5'	0.003	0.000	-0.004
SUM			
S1	0.007	0.000	-0.000
S2	0.003	0.000	-0.001
S3	0.003	0.000	-0.001
S4	0.003	0.000	-0.001
S5	0.003	0.000	-0.001
S6	0.003	0.000	-0.002
S7	0.003	0.000	-0.001
S8	0.003	0.000	-0.002



Company Castle Resources, Inc.
 Well Brown #1 OWWO
 Field Wildcat
 County Russell
 State Kansas