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CEMENT BOND LOG
WITH GAMMA RAY

Company **CASTLE RESOURCES, INC.**
Well **DOC HOLIDAY/FISCHER #1**
Field **UNNAMED**
County **FORD** State **KANSAS**

Location: API # : 15-057-21041-00-00
2300' FNL & 330' FEL
SEC 11 TWP 25S RGE 24W

Other Services
MAST TRAILER

Permanent Datum GROUND LEVEL Elevation 2372'
Log Measured From KB 5 Above Perm. Datum
Drilling Measured From KB

Elevation
K.B. 2377'
D.F. N/A
G.L. 2372'

Comp. CASTLE RESOURCES, INC.
Well DOC HOLIDAY/FISCHER #1
Field UNNAMED
Co. FORD
State KANSAS

Date of Service	7/22/2020
Run Number	ONE
Depth Driller or PBTD	5600'
Depth Logger	4841'
Bottom Log Interval	4838'
Top Log Interval	3600'
Open Hole Size	7.875"
Type Fluid	WATER
Fluid Level	FULL
Fluid Density	N/A
Max. Recorded Temperature	N/A
Max. Wellhead Pressure	0 PSI
Wellhead Connection	N/A
Estimated Cement Top	3830'
Unit Number	P-18
Wireline Size	5/16"
Location	HAYS
Recorded By	D. SCHMIDT
Witnessed By	JERRY GREEN

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	8.625"	23#	0'	220'
Production Casing	5.5"	15.5#	0'	TD
Liner Record				

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, 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.
JETMORE,
SOUTH TO BACKTRAIL RD, 1 WEST, 1/2 SOUTH,
WEST INTO

THANK YOU FOR USING PIONEER ENERGY SERVICES!

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: D. SCHMIDT		
Operator:		
Operator:		
Operator:		

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			Cable Head-Titan_144 1 7/16" Titan Cable Head	1.03	1.44	2.00
			Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00
WVFS8	11.88		PROBE-RBT-DIGITAL-RBL-D (PR-011) Probe 2 3/4" Radii Bond-Digital	8.75	2.75	100.00
WVFS7	11.88					
WVFS6	11.88					
WVFS5	11.88					
WVFS4	11.88					
WVFS3	11.88					
WVFS2	11.88					
WVFS1	11.88					
WVFCAL	11.88					
WVF3FT	11.88					
WVF5FT	10.88					
			Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00
CCL	3.90					
GR	2.60		PROBE-GR/CCL-DIGITAL-275 Probe GR-CCL (Probe-275-GR-CCL) Probe 2 3/4" Gamma Ray / CCL DIGITAL	4.54	2.75	60.00
			Bull_Plug-1_7/16_GO Titan 1 7/16" Female Bull Plug	0.27	1.44	1.00

Dataset:	castle_doc holiday fischer 1.db: field/well/CBL/pass4.1
Total length:	20.35 ft
Total weight:	193.00 lb
O.D.:	2.75 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\castle_doc holiday fischer 1.db
Dataset field/well/CBL/pass4.1/_vars_

Top - Bottom

BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	MINATTN db/ft
7.875	100	5.5	0	15.5	0	1	0.08

PERFS	PPT usec	SRFTEMP degF	TDEPTH ft
No	0	0	0

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

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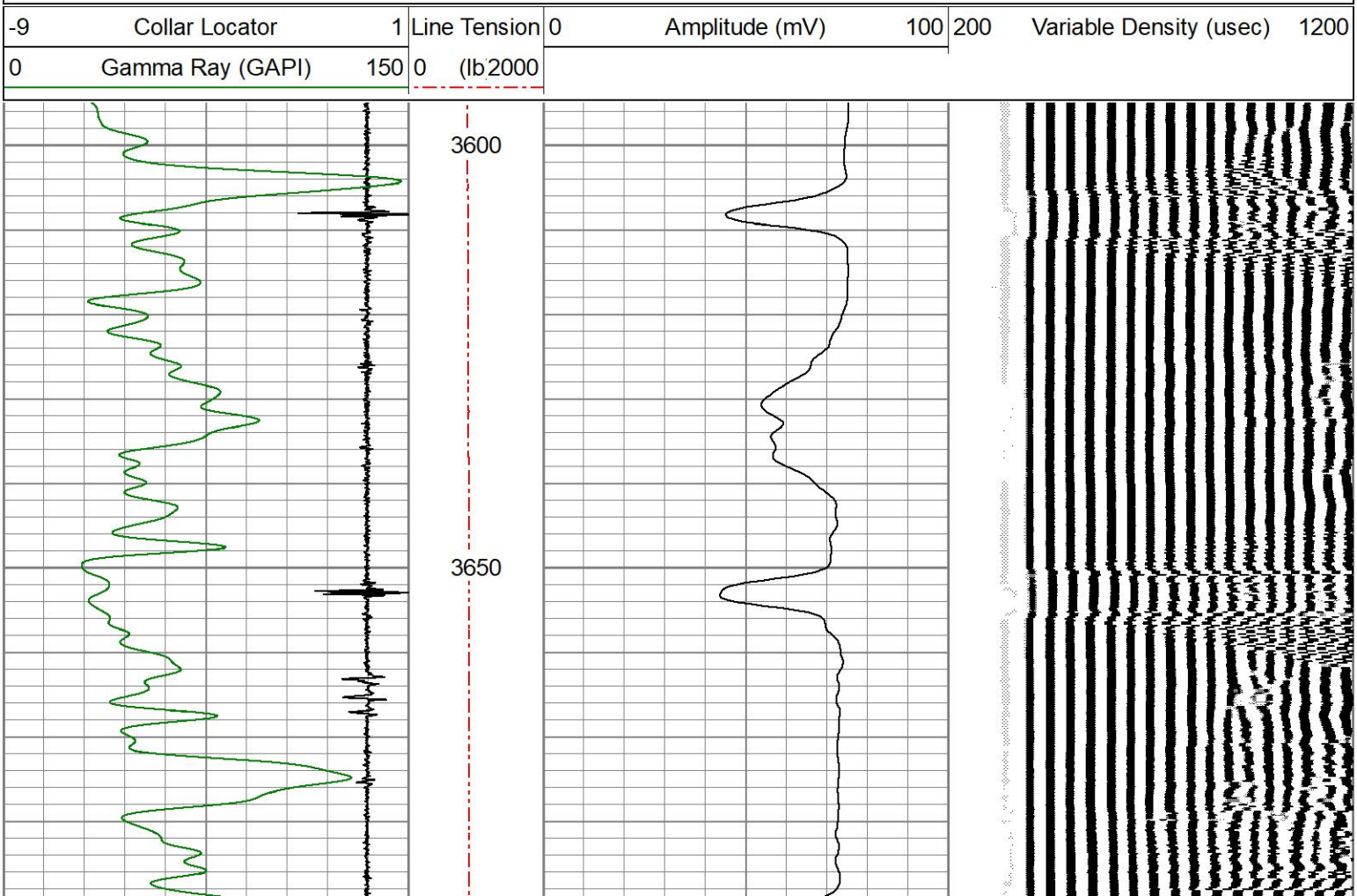
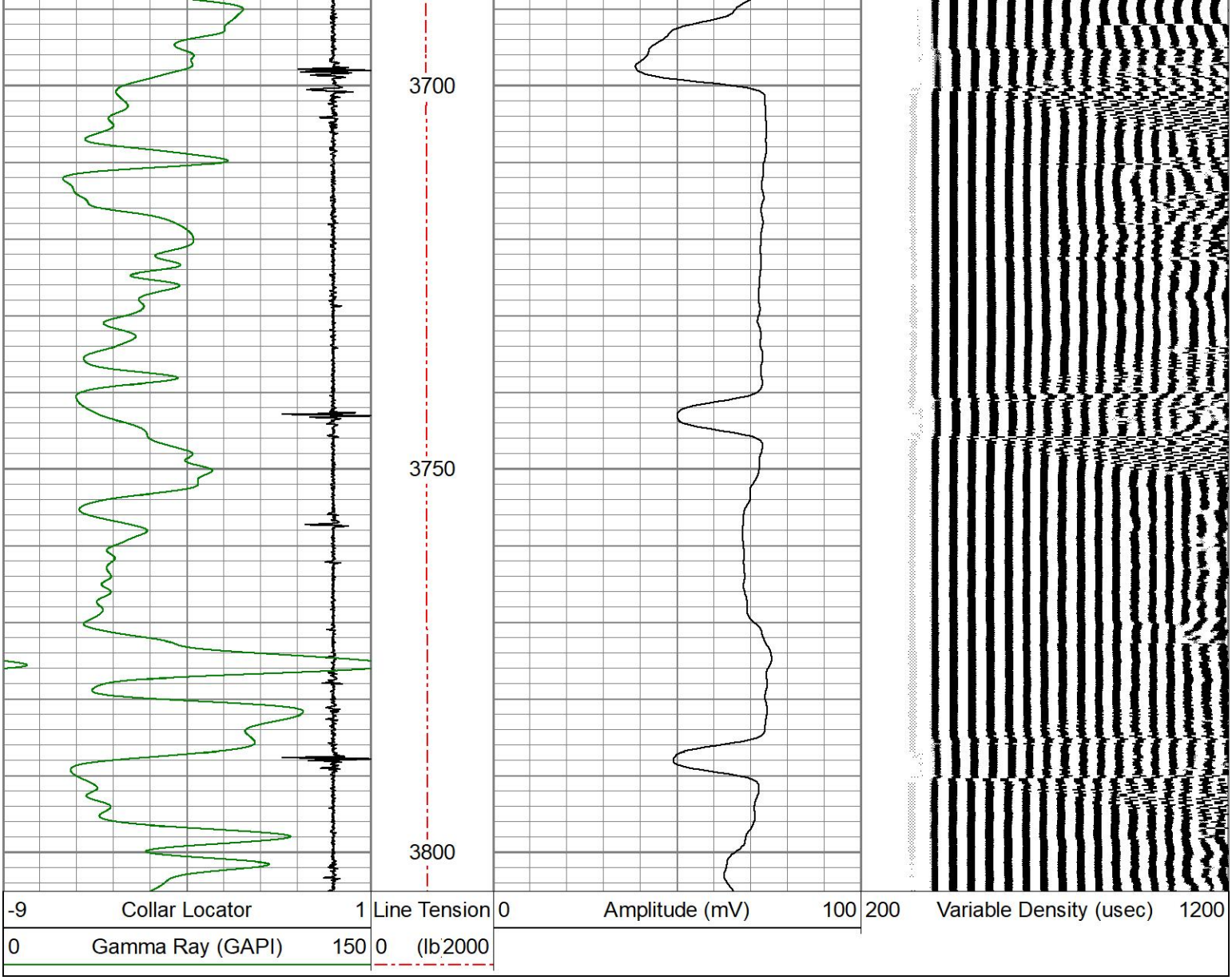
FREE PIPE SECTION

0 PSI APPLIED AT SURFACE

Database File	castle_doc holiday fischer 1.db
Dataset Pathname	CBL/pass4.1
Presentation Format	pinr_cbl
Dataset Creation	Wed Jul 22 17:03:48 2020
Charted by	Depth in Feet scaled 1:240





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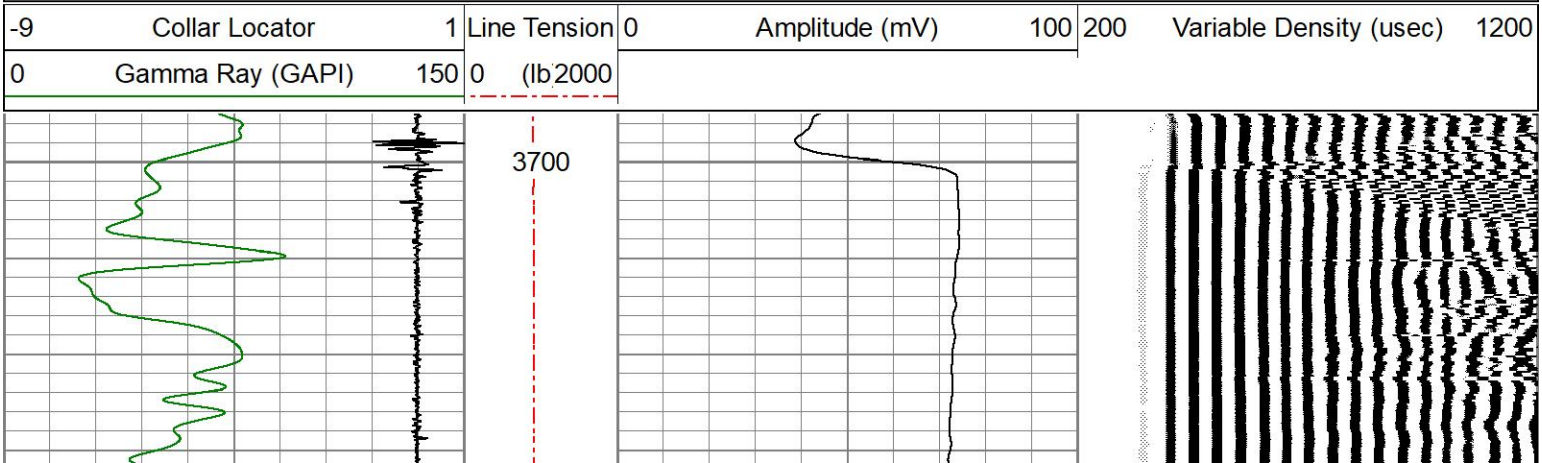
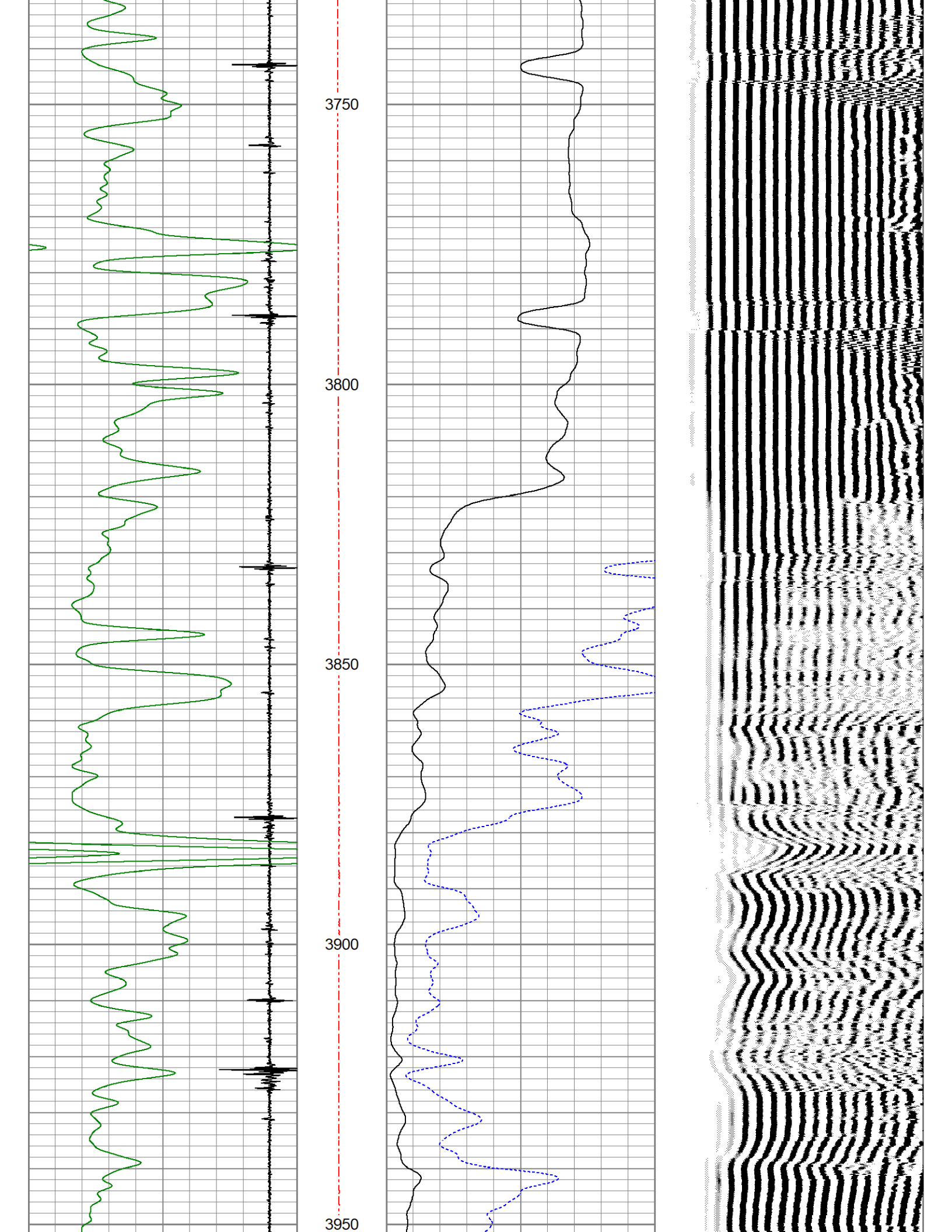
MAIN LOG

Database File	castle_doc holiday fischer 1.db
Dataset Pathname	CBL/pass3
Presentation Format	pinr_cbl
Dataset Creation	Wed Jul 22 16:38:03 2020
Charted by	Depth in Feet scaled 1:240

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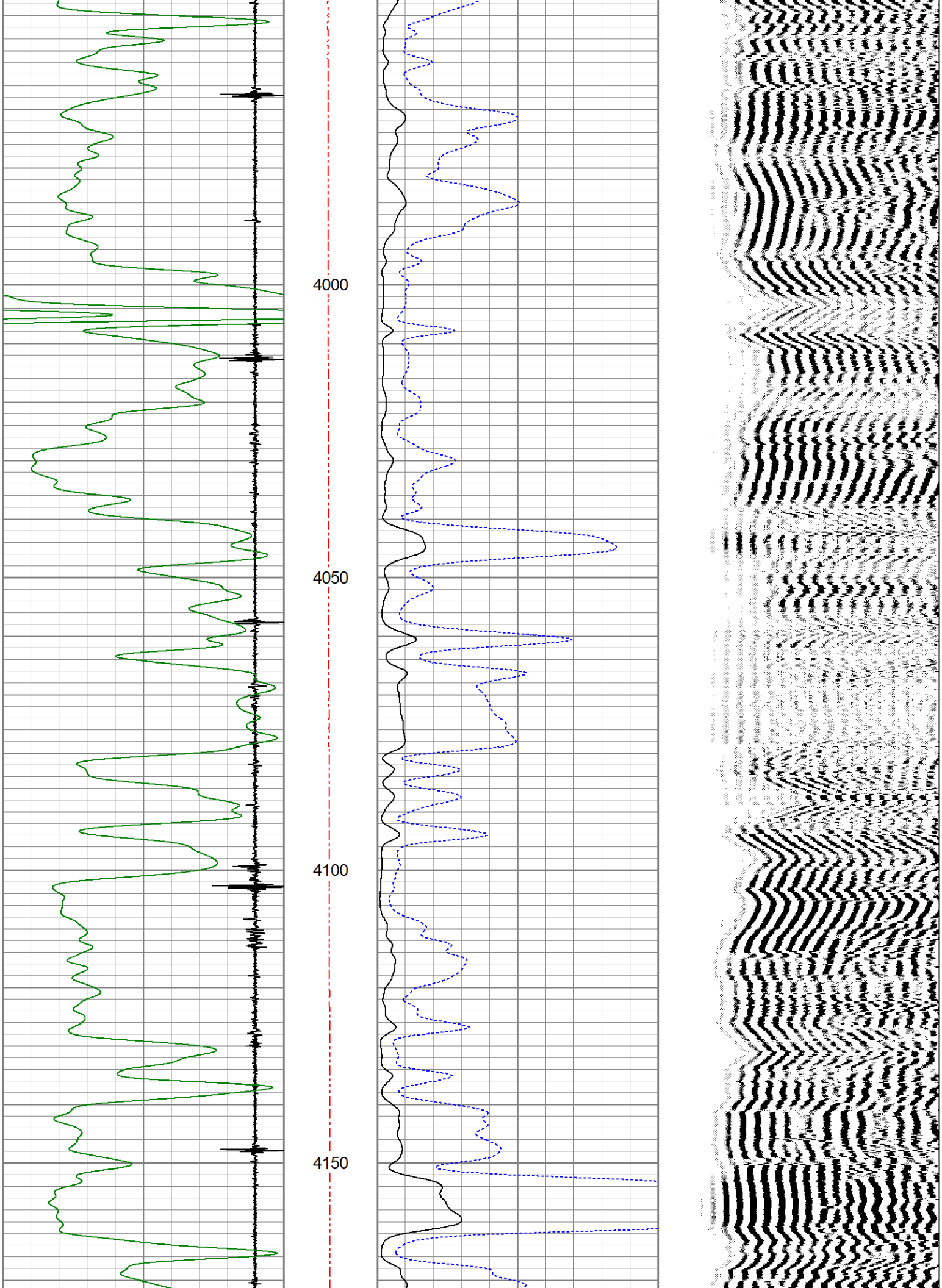
3800
3850
3900
3950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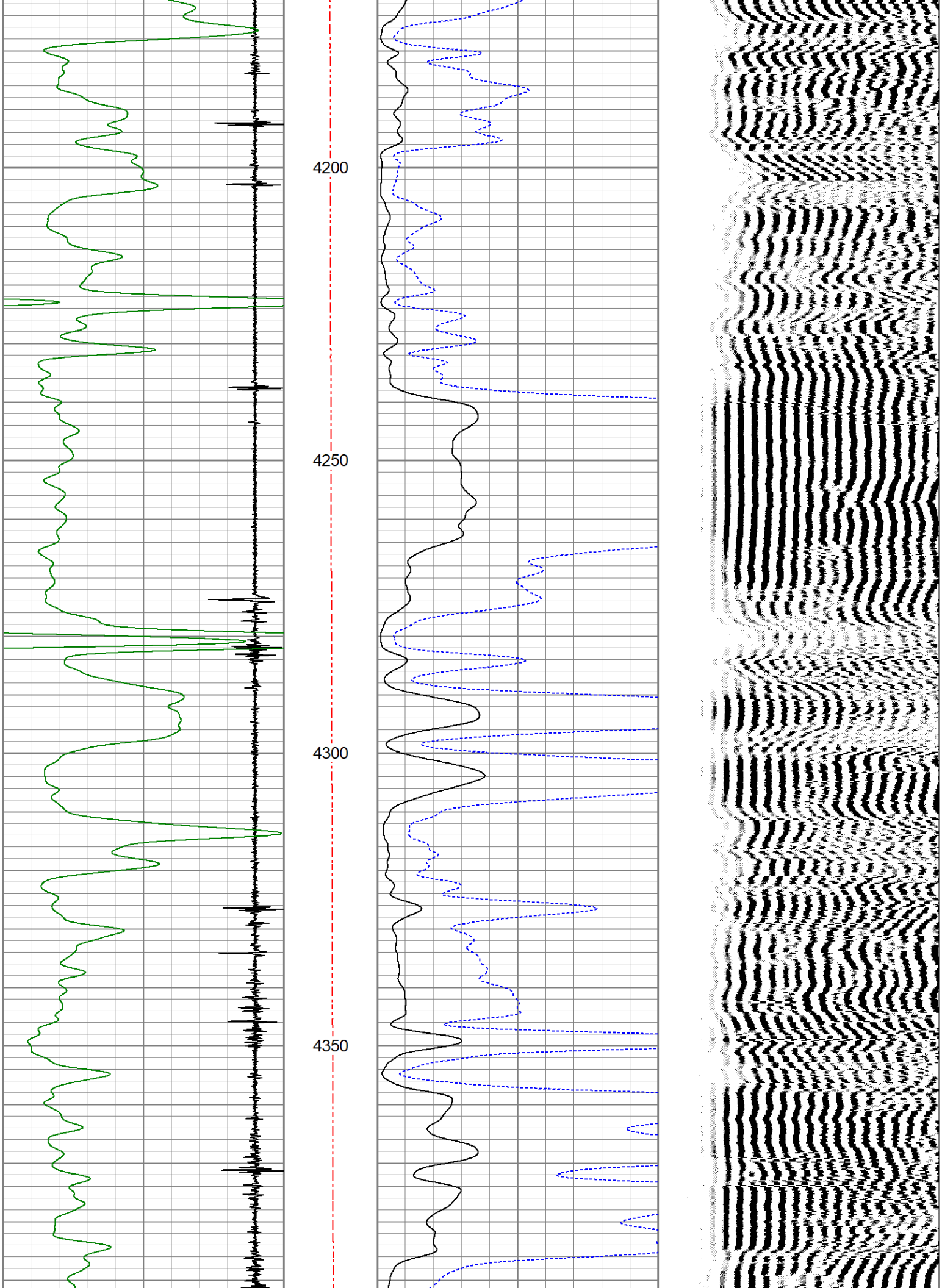
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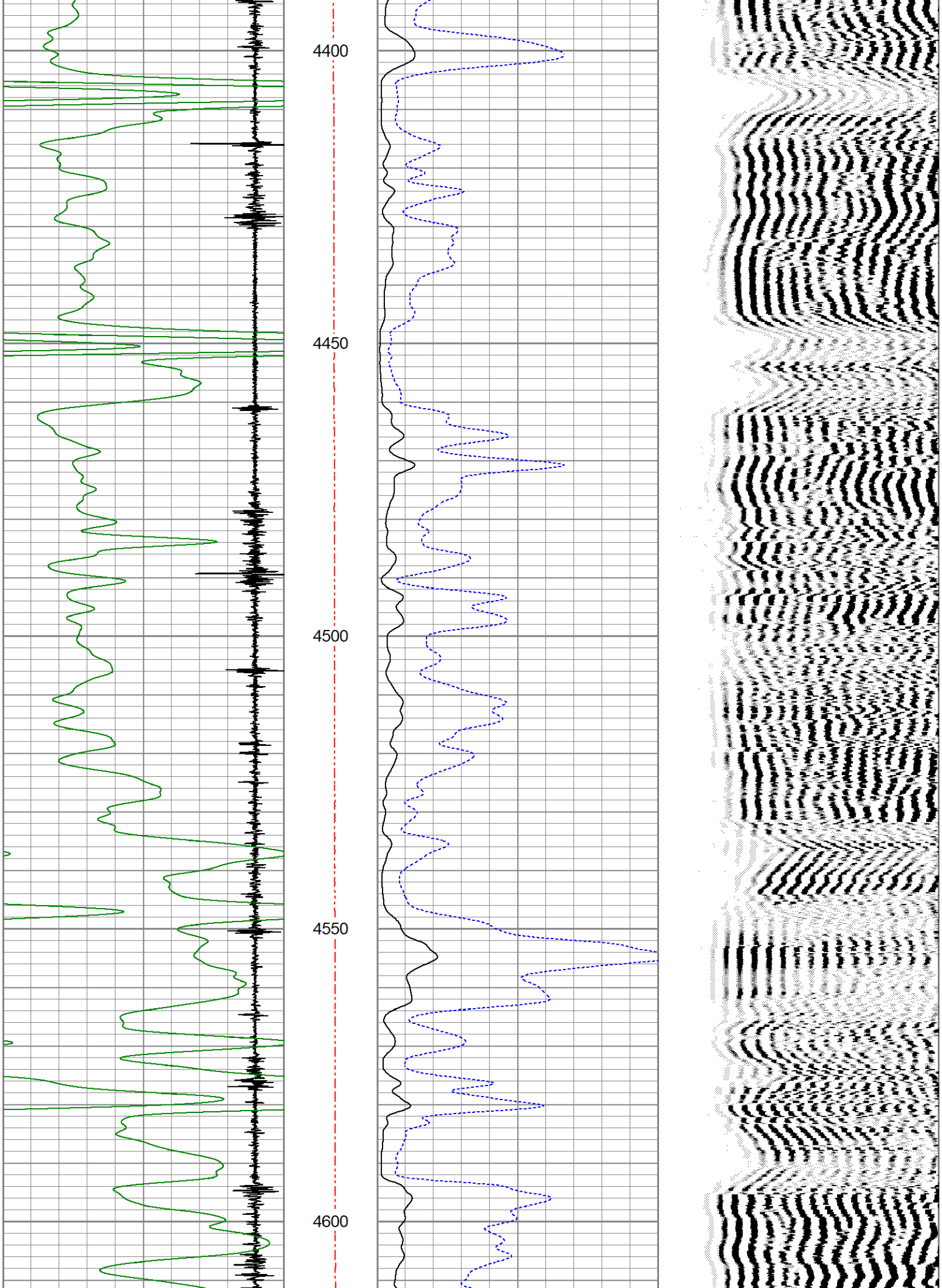
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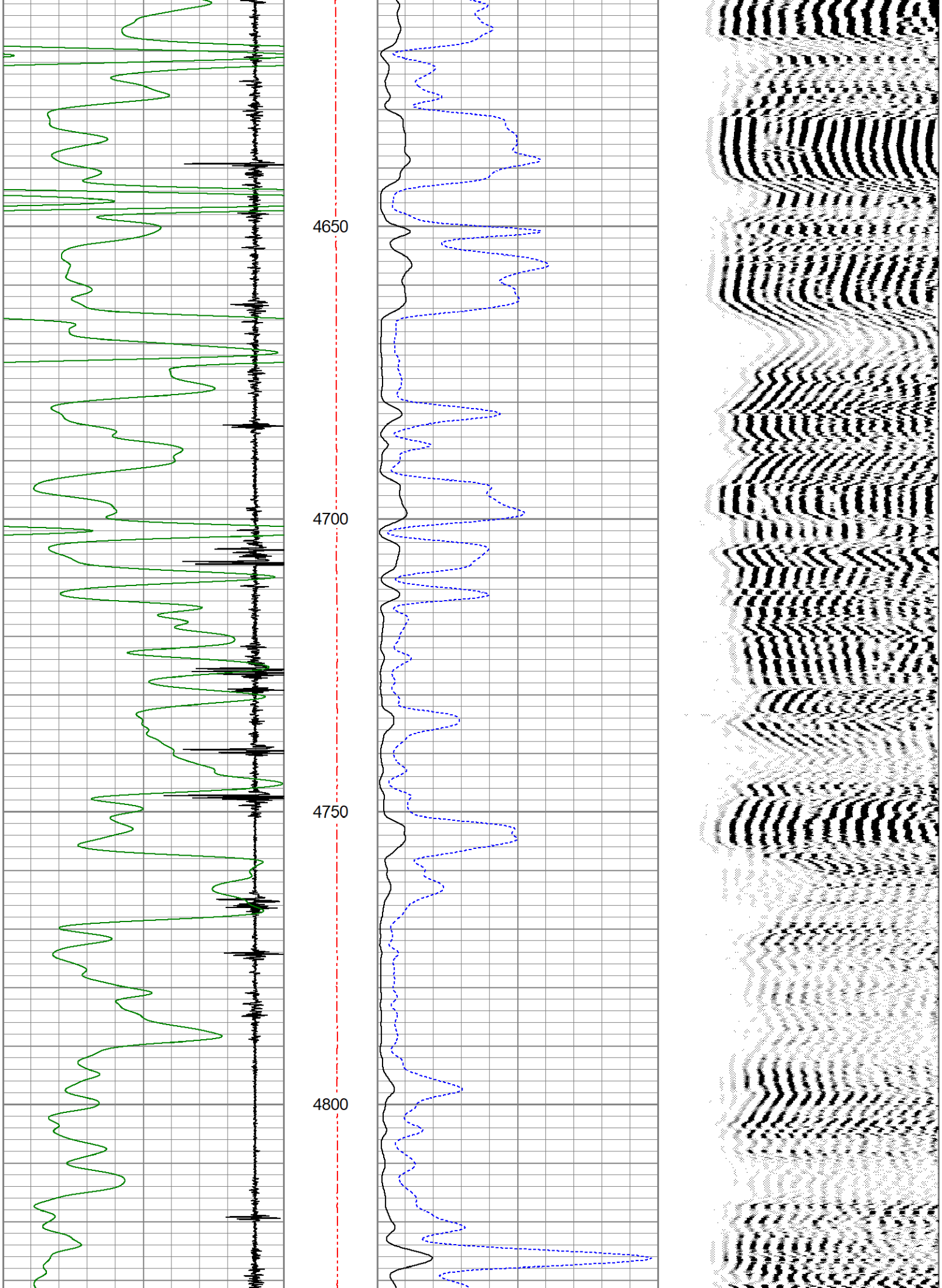
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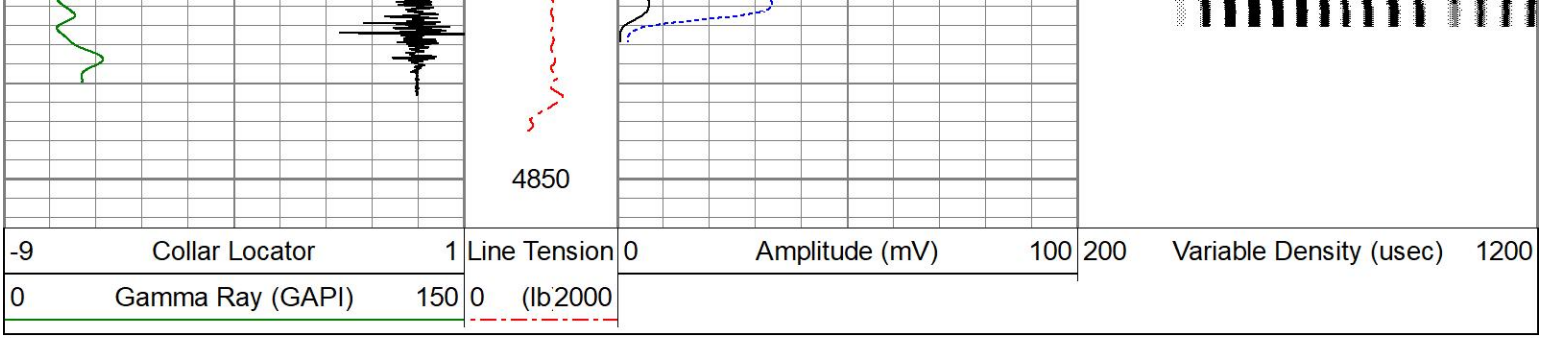

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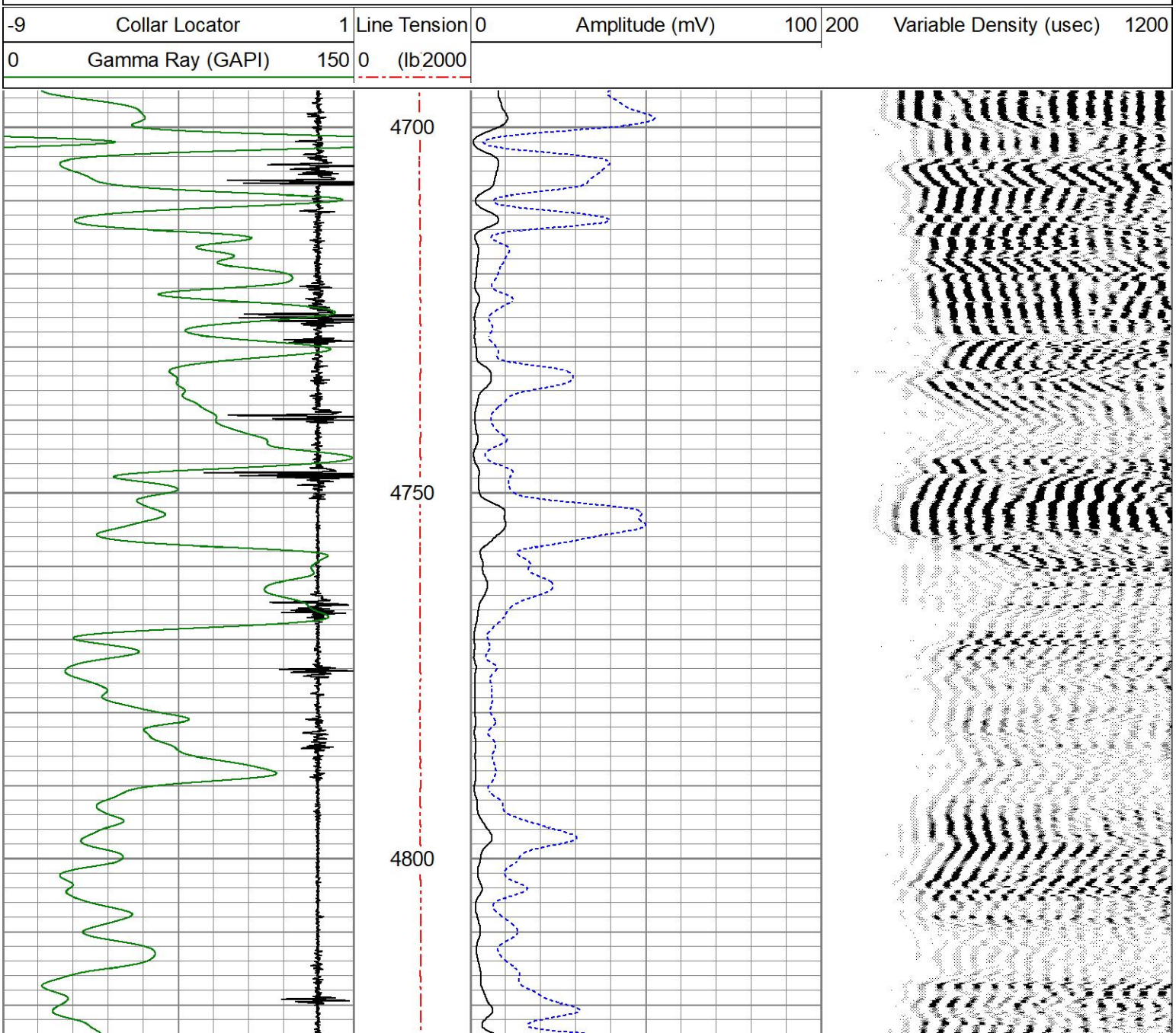
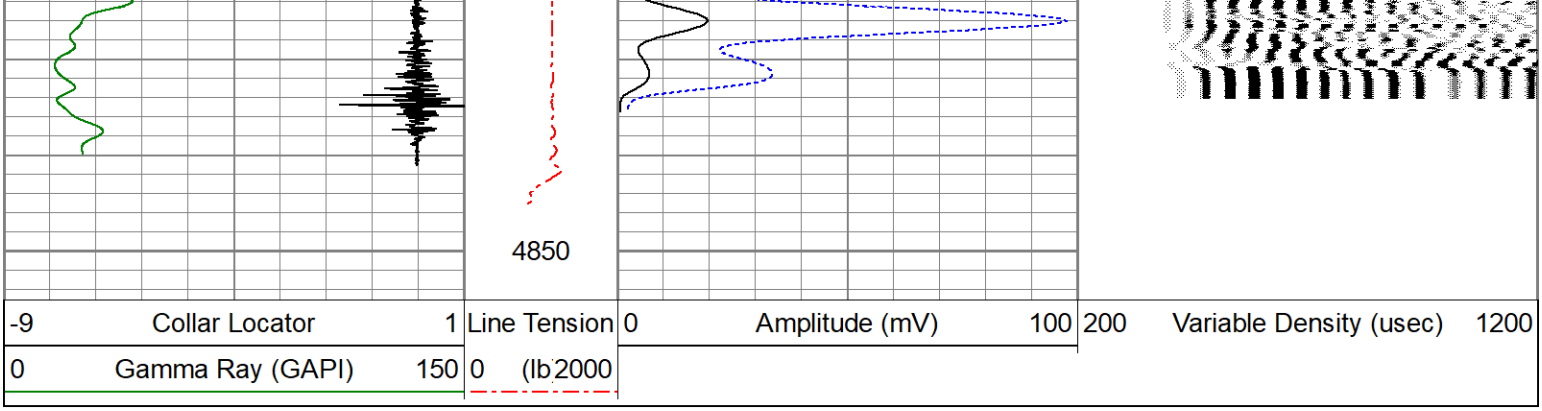
REPEAT SECTION

Database File	castle_doc holiday fischer 1.db
Dataset Pathname	CBL/pass2.1
Presentation Format	pinr_cbl
Dataset Creation	Wed Jul 22 16:54:37 2020
Charted by	Depth in Feet scaled 1:240





Calibration Report

Database File	castle_doc holiday fischer 1.db
Dataset Pathname	CBL/pass4.1
Dataset Creation	Wed Jul 22 17:03:48 2020

Gamma Ray Calibration Report

Serial Number:	Probe-275-GR-CCL	
Tool Model:	275 Probe GR-CCL	
Performed:	(Not Performed)	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	PR-011	
Tool Model:	RBL-D	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	-3417.186	ft

Master Calibration, performed Wed Jul 22 16:31:43 2020:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	2.096	0.700	71.921	34.100	0.442
CAL	-0.006	2.358				
5'	-0.006	2.096	0.700	71.921	33.882	0.901
SUM						
S1	0.004	1.858	0.000	100.000	53.931	-0.207
S2	-0.006	2.003	0.000	100.000	49.766	0.298
S3	-0.006	2.151	0.000	100.000	46.361	0.277
S4	0.010	2.227	0.000	100.000	45.120	-0.469
S5	0.010	2.239	0.000	100.000	44.879	-0.465
S6	0.013	2.193	0.000	100.000	45.871	-0.598
S7	0.010	2.094	0.000	100.000	47.997	-0.485
S8	0.005	1.902	0.000	100.000	52.709	-0.262

Air Zero Calibration, performed Mon Jul 06 10:07:58 2020:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset

3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

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Field	UNNAMED
County	FORD
State	KANSAS