

Brand X
Wireline LLC

GAMMA RAY, CCL
CEMENT BOND, VDL

Company **CRESTONE PEAK**
Well **COSTIGAN 6-8-20**
Field **WATTENBERG**
County **WELD** State **COLO**

Location: API #: 05-123-30124-0000

Other Services

SHL: 945' FSL & 1056' FEL
BHL: 50' FSL & 1300' FEL
SEC 20 TWP 1N RGE 68W

Elevation

Permanent Datum GL
Log Measured From KB 13'
Drilling Measured From KB

K.B. 5226
D.F. 5227
G.L. 5213

Date NOV-12-2020

Run Number	ONE
Depth Driller	8674'
Depth Logger	3206
Bottom Logged Interval	3205
Top Log Interval	1100'
Open Hole Size	7.875"
Type Fluid	WATER
Density / Viscosity	8.34 PPG
Max. Recorded Temp.	
Estimated Cement Top	SEE LOG
Time Well Ready	ROA
Time Logger on Bottom	11:00AM
Equipment Number	14189
Location	STERLING, CO
Recorded By	KYLE GIRDLER
Witnessed By	LEE ROMKEE

Borehole Record			Tubing Record				
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.625"	24#	0	1216'
Prot. String				
Production String	4.5"	11.6#	SURFACE	TD
Liner				

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

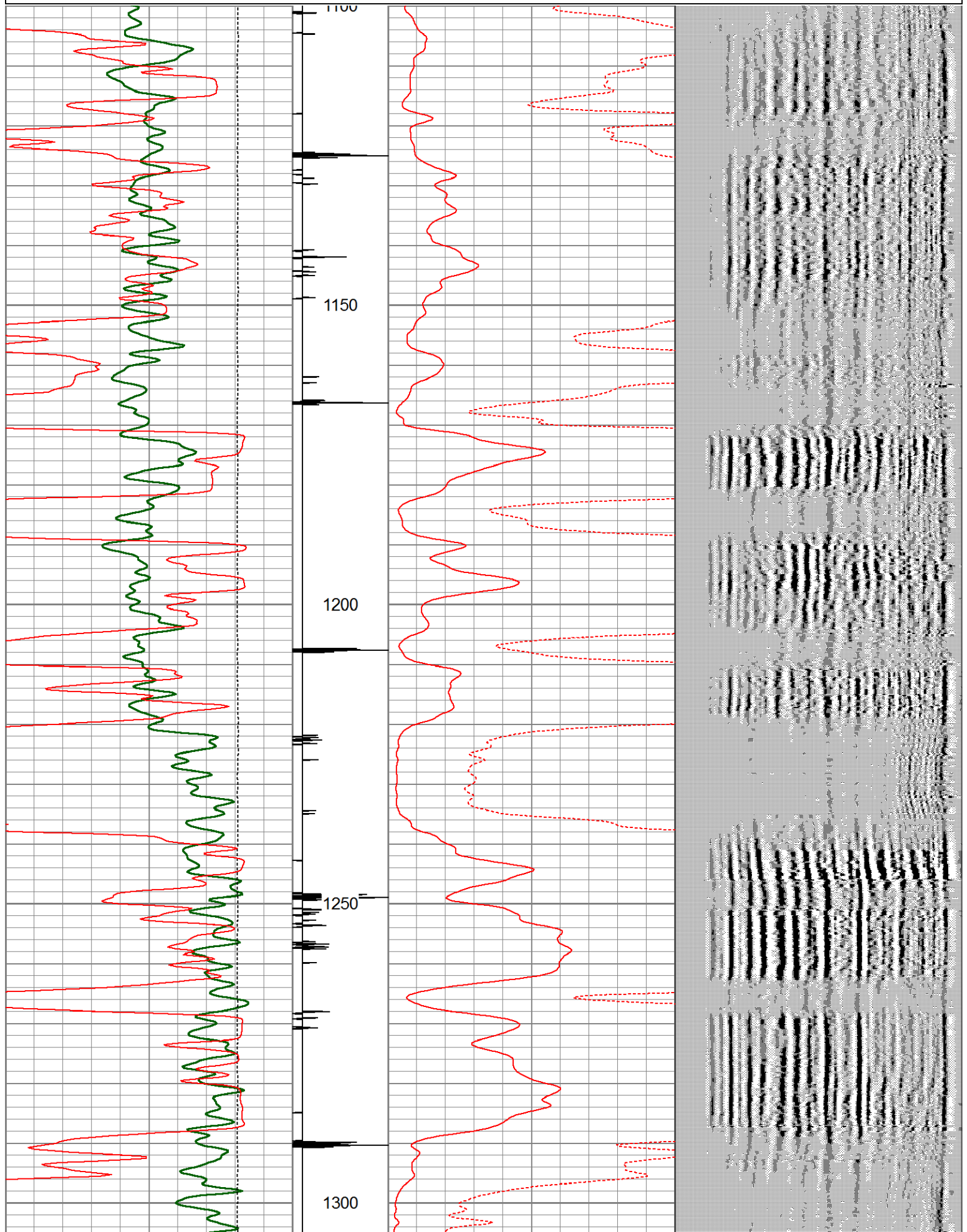
Comments

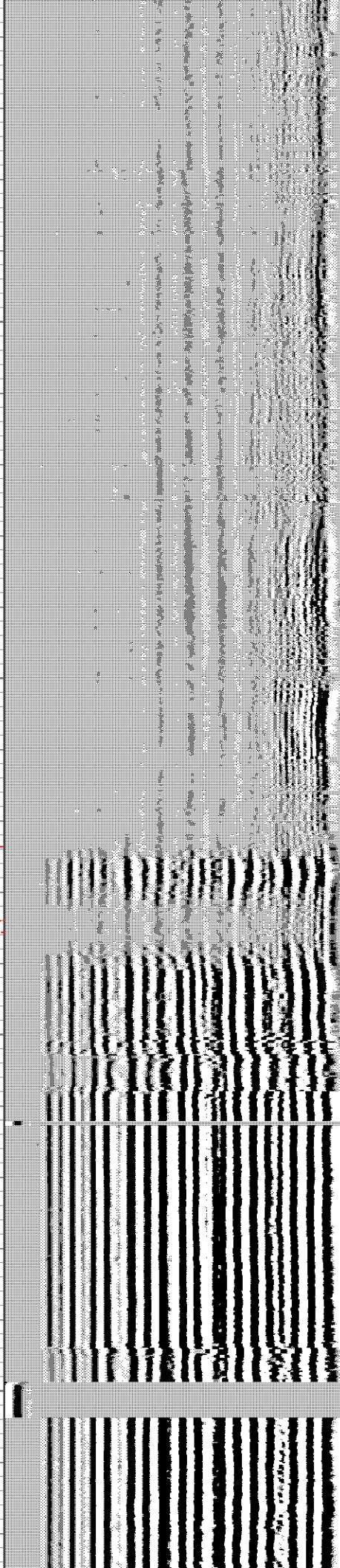
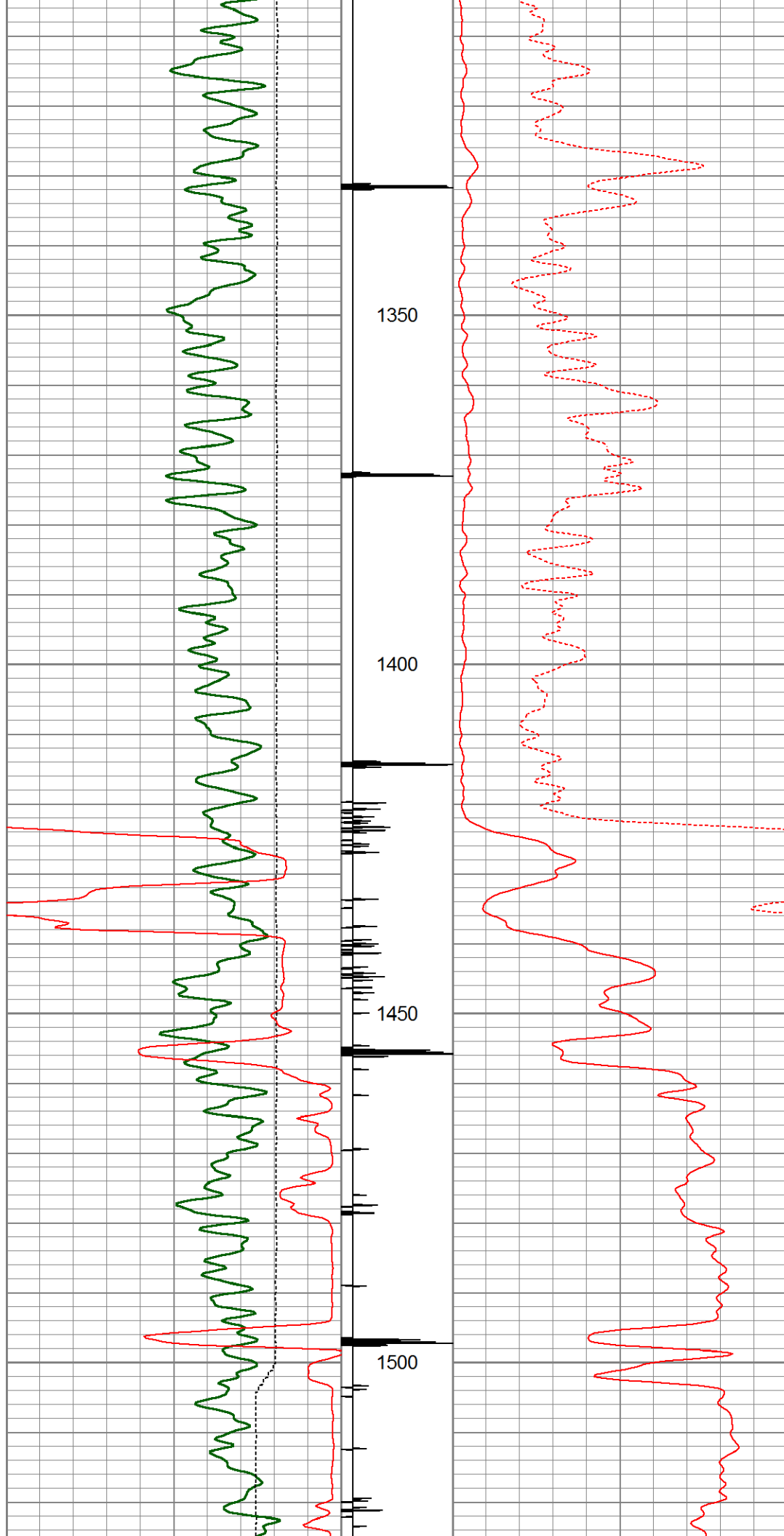
LOG RAN UNCENTRALIZED IN 4.5" CASING WITH 1.69" CBL TOOLS
LOG RAN OFF OF 13' KB

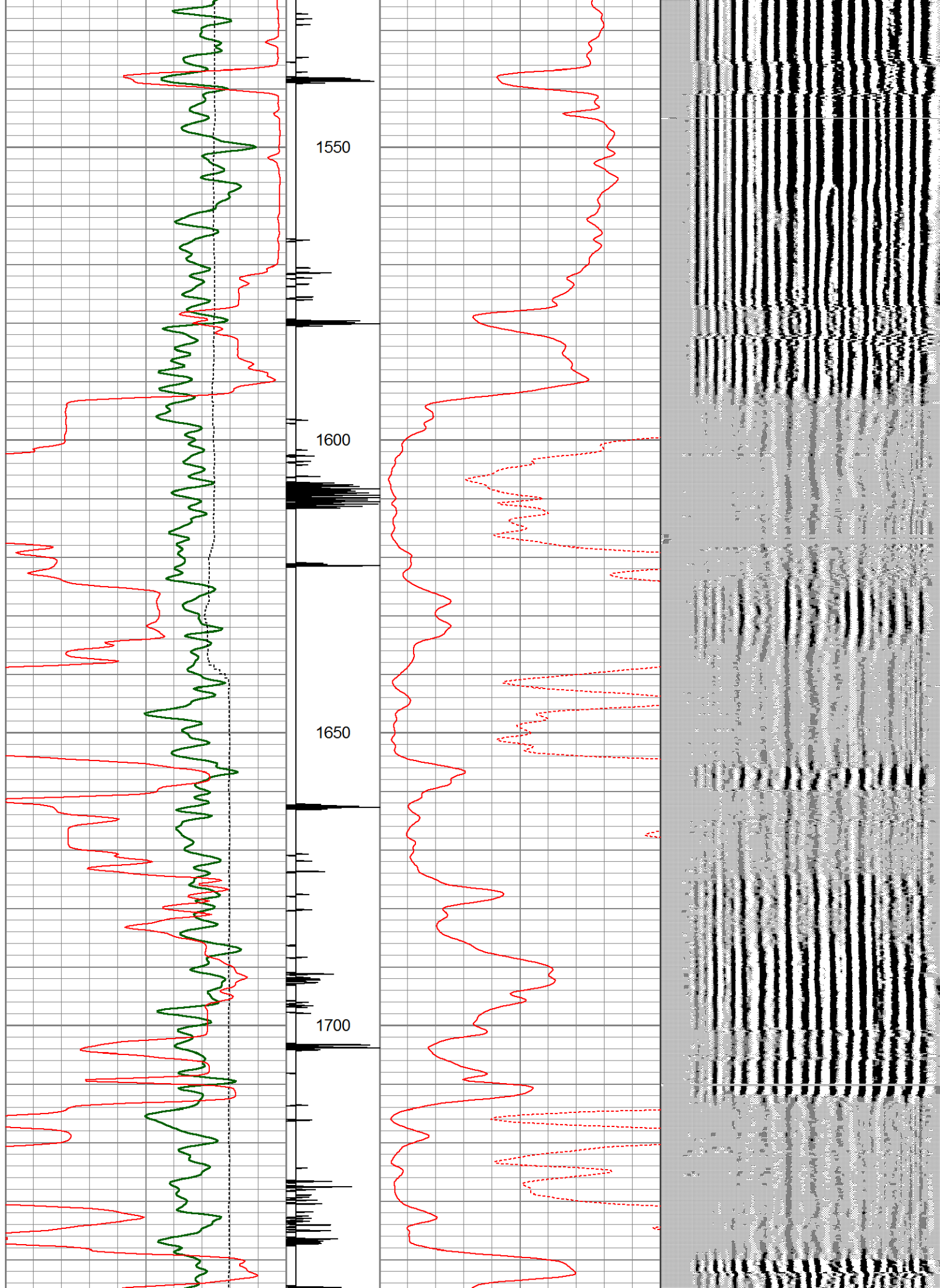
THANKS FOR CHOOSING BRAND-X WIRELINE

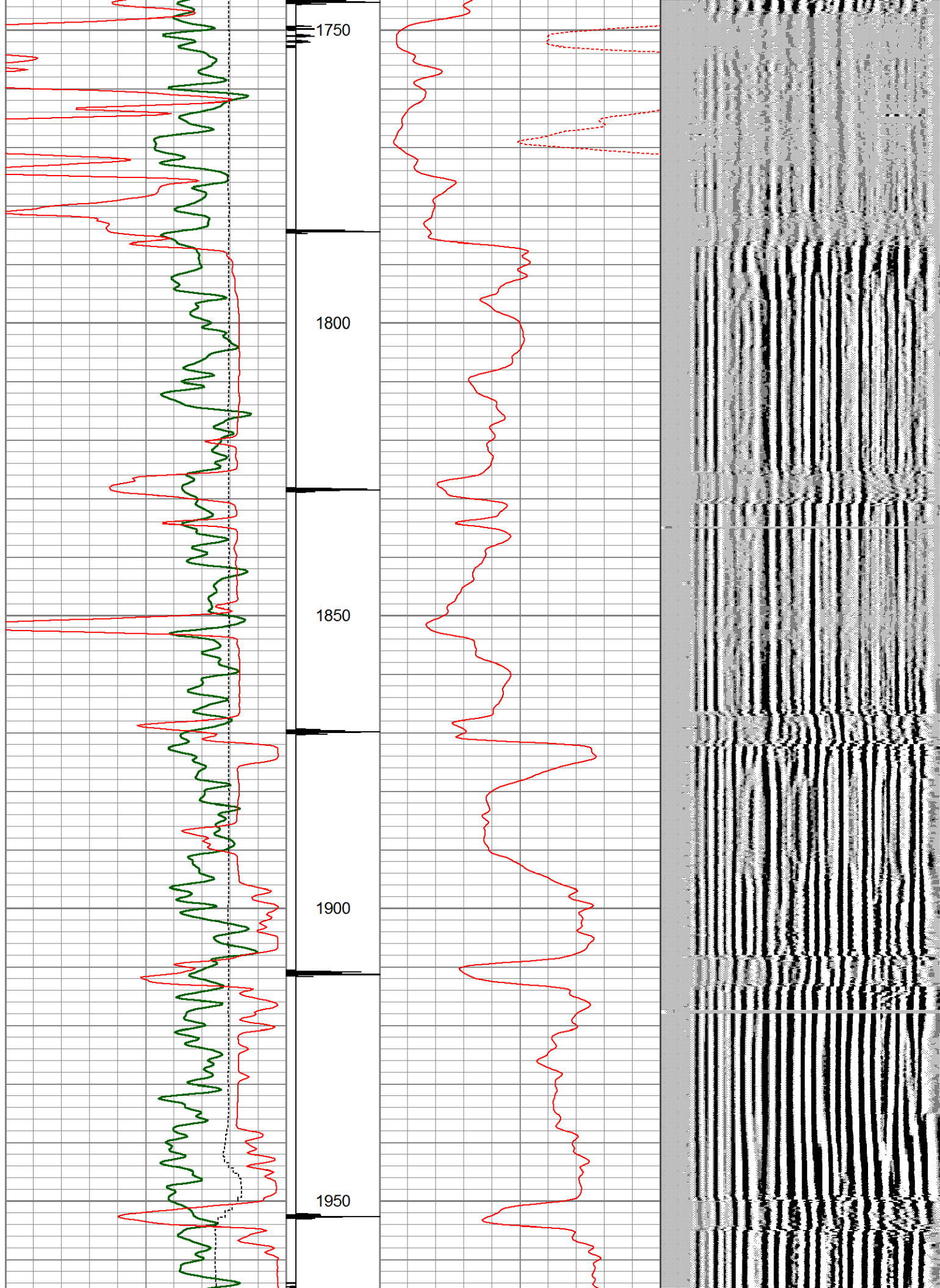
Database File costigan 6-8-20 cbl2.db
Dataset Pathname cbl1
Presentation Format cbl_drs
Dataset Creation Thu Nov 12 11:10:05 2020
Charted by Depth in Feet scaled 1:240

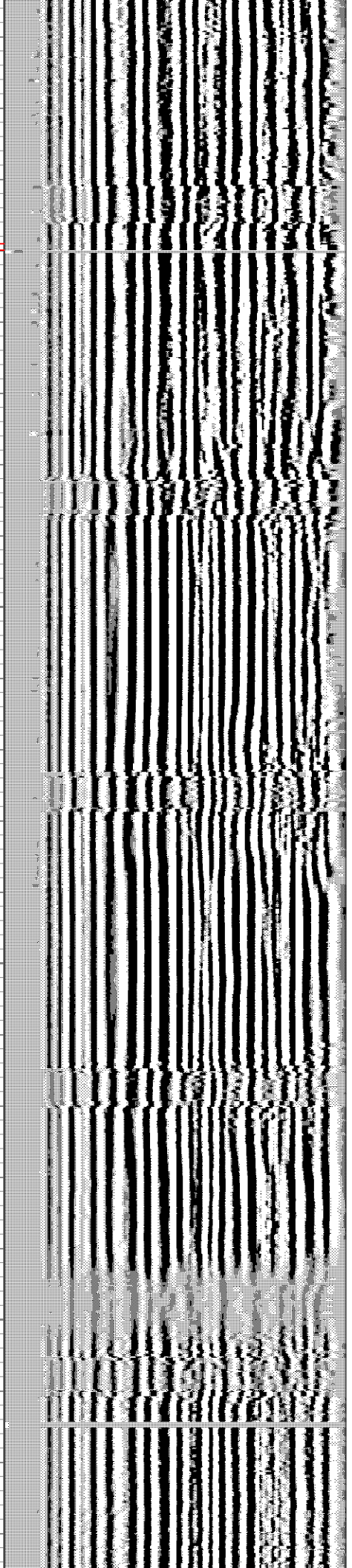
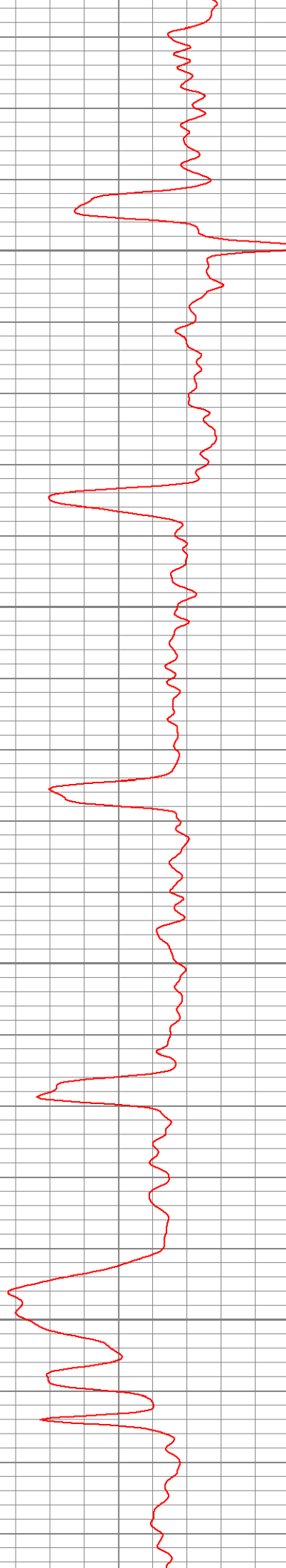
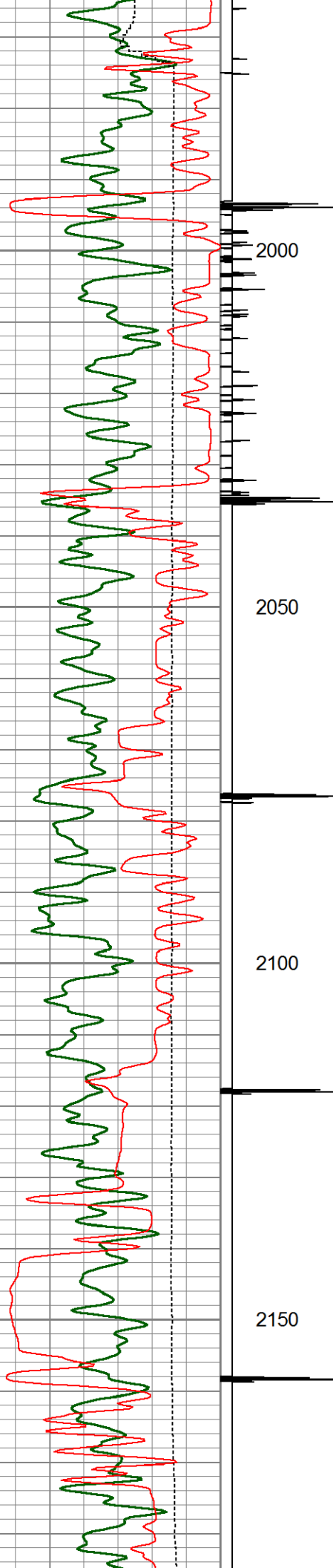
0	Gamma Ray (GAPI)	150	Collar Location	0	AMP AMPLITUDE (mV)	10	200	VDL (usec)	1200
100	Line Speed (ft/min)	-100	-1	9	0	AMPLITUDE (mV)	100		
400	TT3FT (usec)	200							

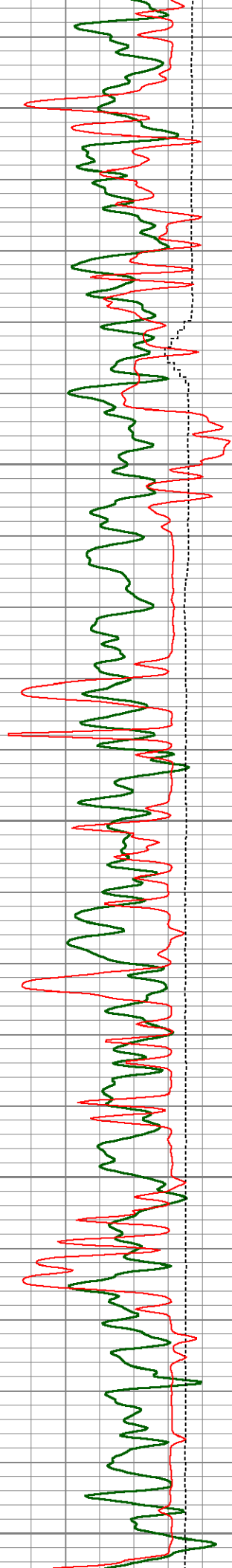












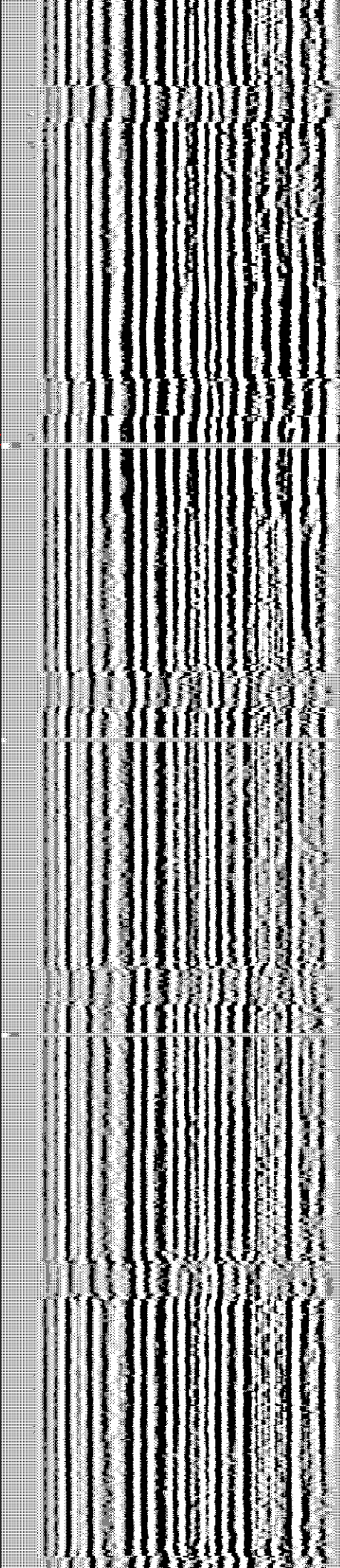
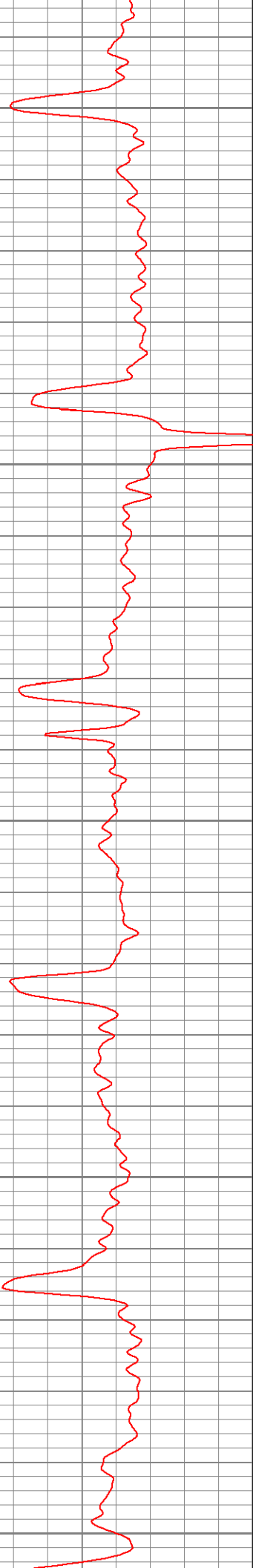
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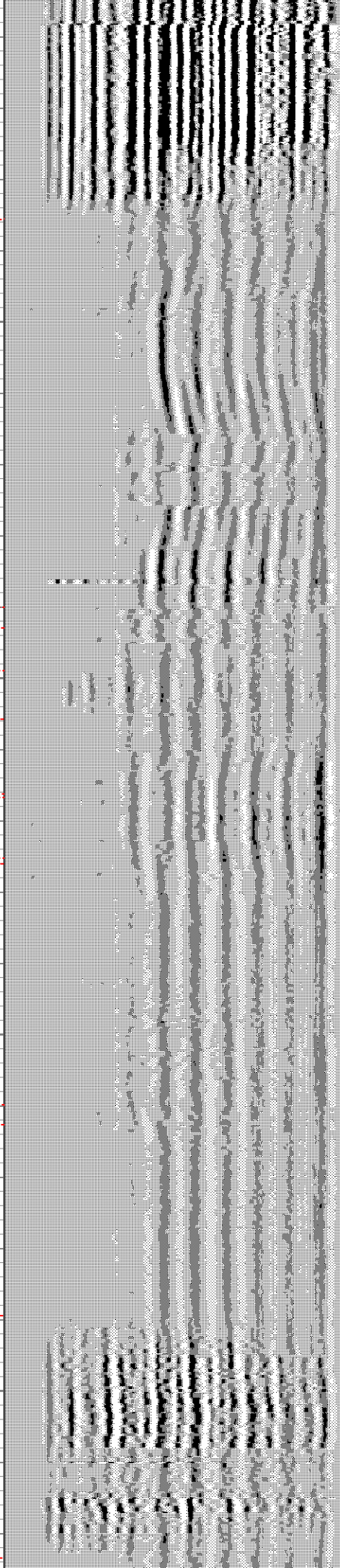
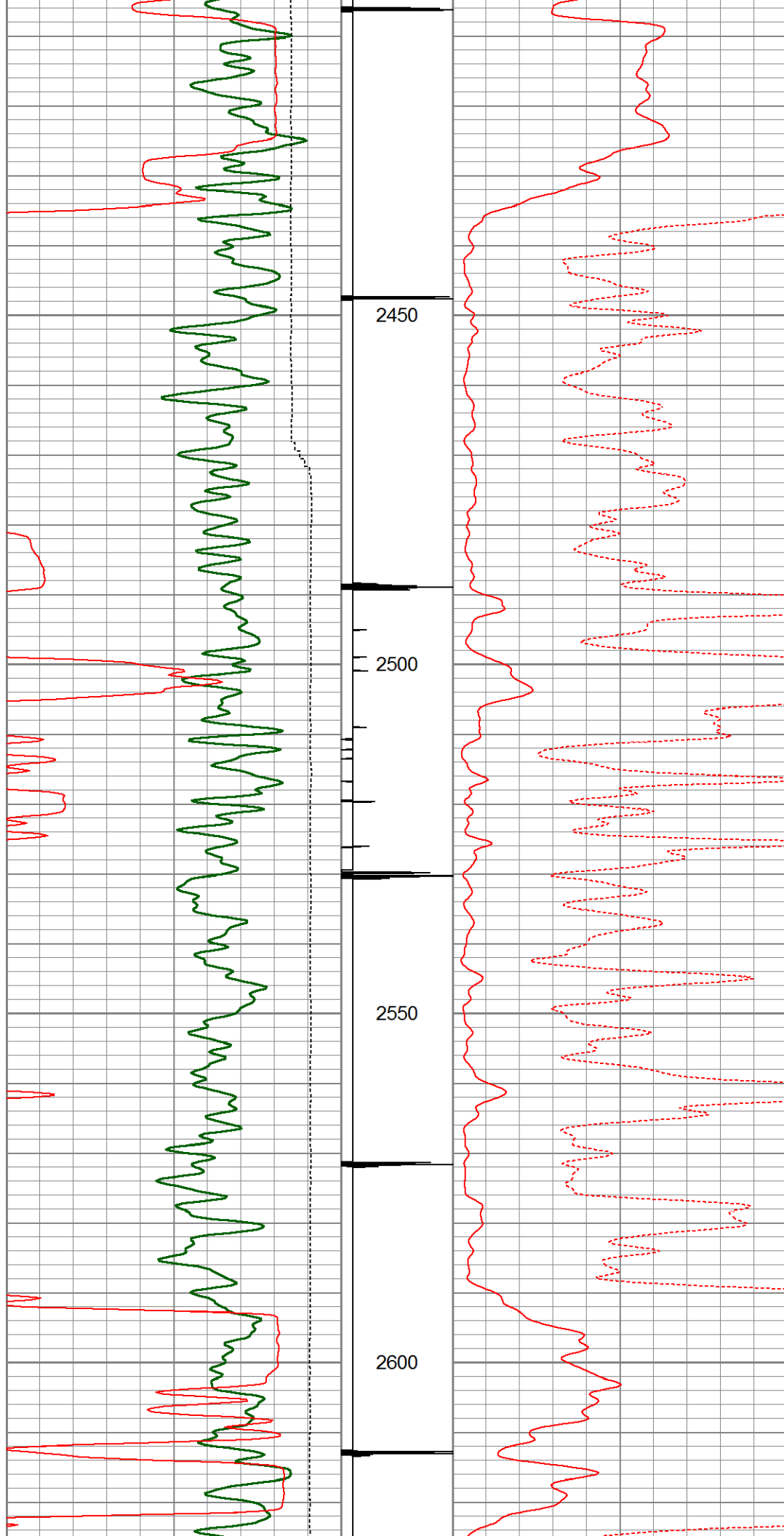
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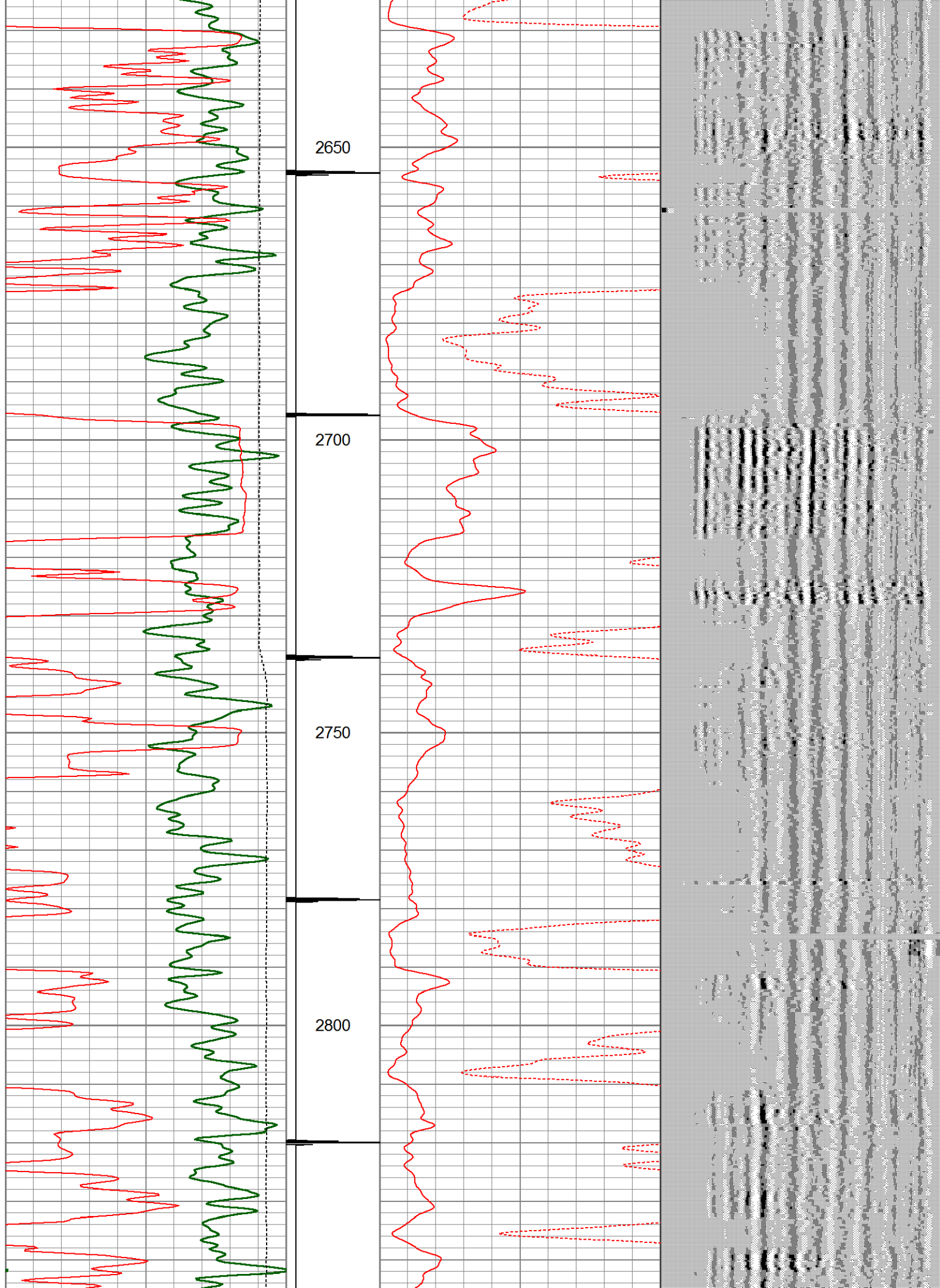
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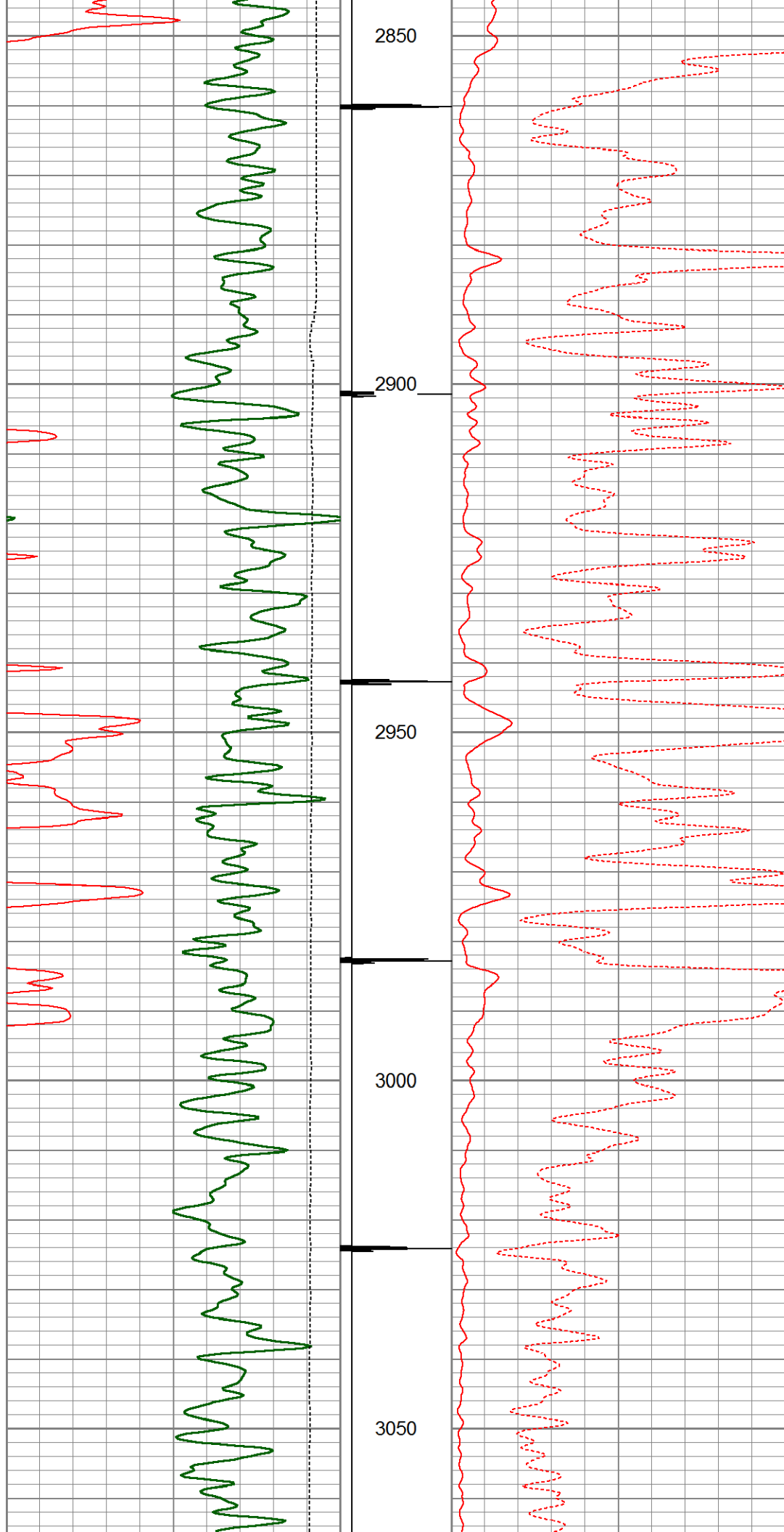
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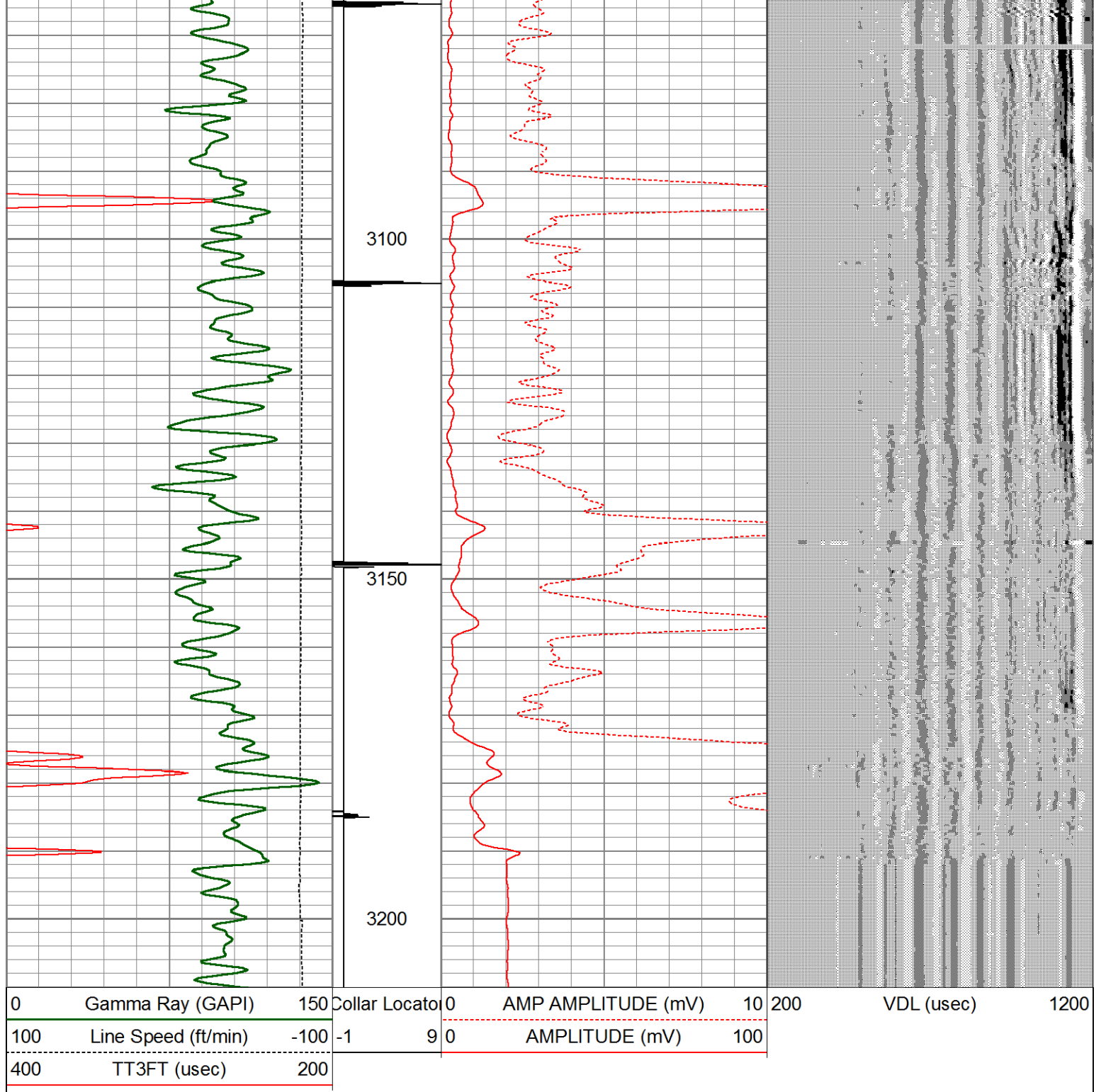
2400











Calibration Report			
Database File	costigan 6-8-20 cbl2.db		
Dataset Pathname	cbl1		
Dataset Creation	Thu Nov 12 11:10:05 2020		
Gamma Ray Calibration Report			
Serial Number:	1230		
Tool Model:	Titan		
Performed:	Thu Aug 13 12:31:06 2015		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	

Sensitivity:

1.2000

GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: T169t_001
 Tool Model: T169Temp
 Calibration Casing Diameter: 4.500 in
 Calibration Depth: 2537.194 ft

Master Calibration, performed Sat Nov 07 08:55:11 2020:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.564	2.000	81.196	140.491	2.000
CAL	0.000	1.573				
5'	0.000	0.274	2.000	81.196	288.703	2.000
SUM						
S1	0.000	2.088	0.000	100.000	47.899	0.000
S2	0.000	1.457	0.000	100.000	68.624	0.000
S3	0.000	0.961	0.000	100.000	104.006	0.000
S4	0.000	1.023	0.000	100.000	97.740	0.000
S5	0.000	1.118	0.000	100.000	89.475	0.000
S6	0.000	1.735	0.000	100.000	57.623	0.000
S7						
S8						

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	1.573	1.000	0.000

Air Zero Calibration, performed Fri Nov 06 14:44:25 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					
S8					

Temperature Calibration Report

Serial Number: T169t_001
 Tool Model: T169Temp
 Performed: Wed Sep 08 09:16:20 2004

	Reference	Reading
Low Reference:	0.00 degF	0.00 usec
High Reference:	1.00 degF	1.00 usec

Gain: 1.00
Offset: -6.00
Delta Spacing 2

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
CCL	15.33		CCL-SLIM (TITN) 1 11/16 CCL	1.83	1.69	10.00
TEMP	11.98					
WVFS6	10.42					
WVFS5	10.42					
WVFS4	10.42					
WVFS3	10.42					
WVFS2	10.42					
WVFS1	10.42					
WVFCAL	10.42					
WV3FT	9.67					
WV5FT	8.67					
WVFTMP	4.75		SCBLTEKSLIM-T169Temp (T169t_001) 1 11/16 Sector with Temp	9.67	1.69	53.00
GR	1.17		GR-Titan (1230) 1 11/16 Gamma Ray	4.75	1.69	17.00

Dataset:	costigan 6-8-20 cbl2.db: field/well/run1/cbl1
Total length:	16.25 ft
Total weight:	80.00 lb
O.D.:	1.69 in