



CEMENT BOND LOG

Company Charles N. Griffin
Well Orr #B 2
Field Unnamed
County Barber
State Kansas

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Field Unnamed
County Barber
State Kansas

Location: API #: 15 007 24093
SEC 9 TWP 32S RGE 12W
Permanent Datum Ground Level Elevation 1497'
Log Measured From KB 10' AGL
Drilling Measured From KB
Other Services
Elevation
K.B. 1507'
D.F. 1506'
G.L. 1497'

Date	10-29-13
Run Number	One
Depth Driller	4730'
Depth Logger	3647'
Bottom Logged Interval	3646'
Top Log Interval	2400'
Open Hole Size	7 7/8"
Type Fluid	Water
Density / Viscosity	////
Max. Recorded Temp.	////
Estimated Cement Top	2620'
Time Well Ready	R.O.A
Time Logger on Bottom	7:50 A.M
Equipment Number	T-440
Location	Hays, Ks
Recorded By	Casey Patterson
Witnessed By	Mr. JR Griffin
Borehole Record	
Run Number	Bit From To Size Weight From To
Casing Record	Size Wgt/Ft Top Bottom
Surface String	
Prot. String	
Production String	
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.

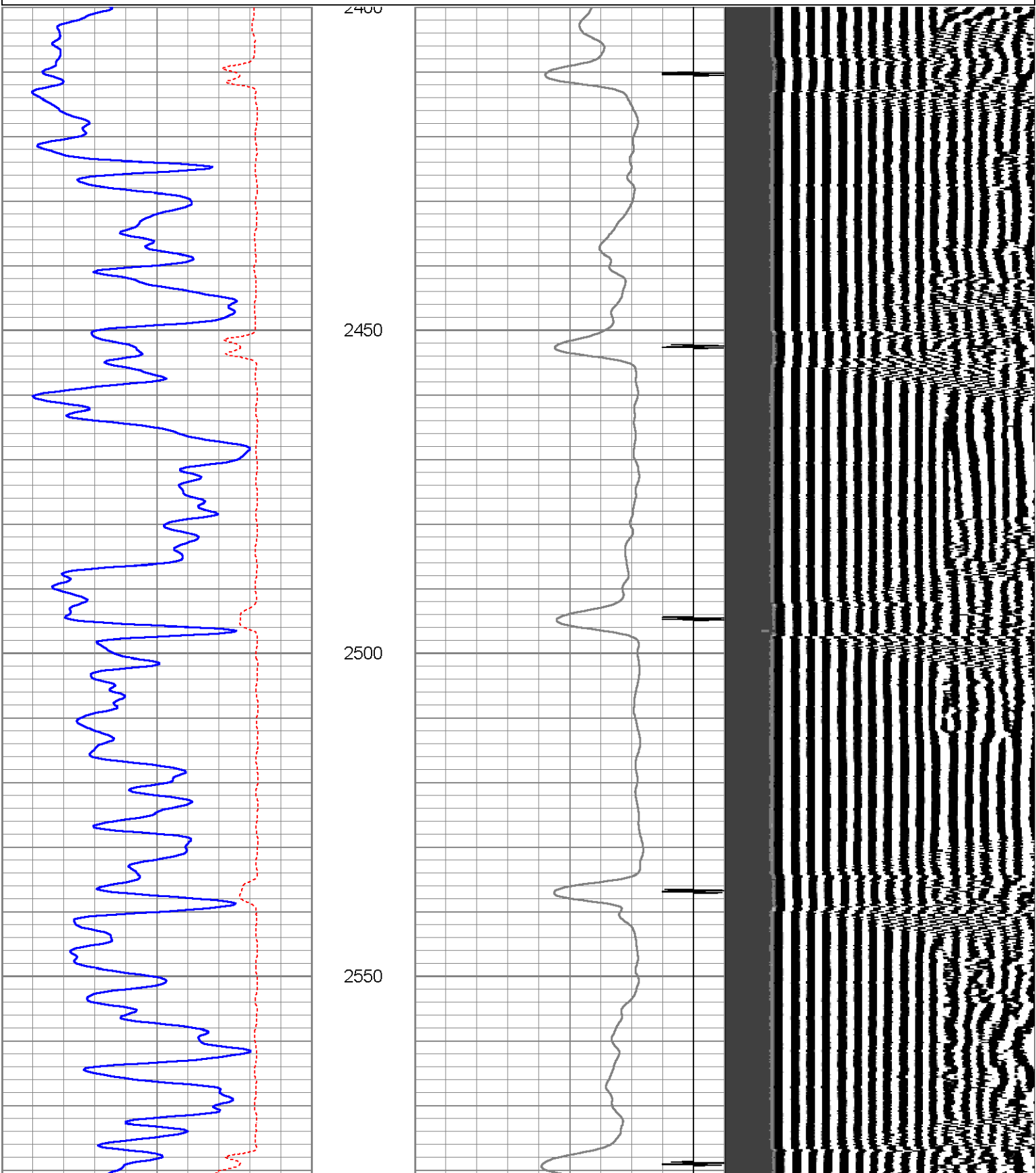
Comments

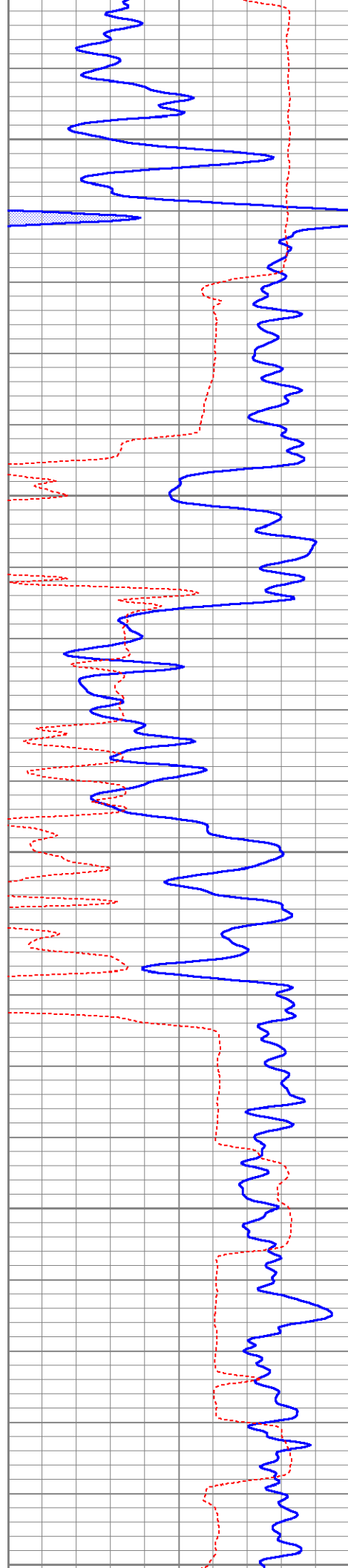


Main Pass

Database File: cgorrb2cbl.db
Dataset Pathname: pass20
Presentation Format: cbl
Dataset Creation: Tue Oct 29 08:07:29 2013 by Calc Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	150	18	CCL	-2	200	VDL	1200
150	GR (GAPI)	300	0	AMP3 (mV)	100			
420	TT3FT (usec)	220						





2600

Estimated Top of Cement

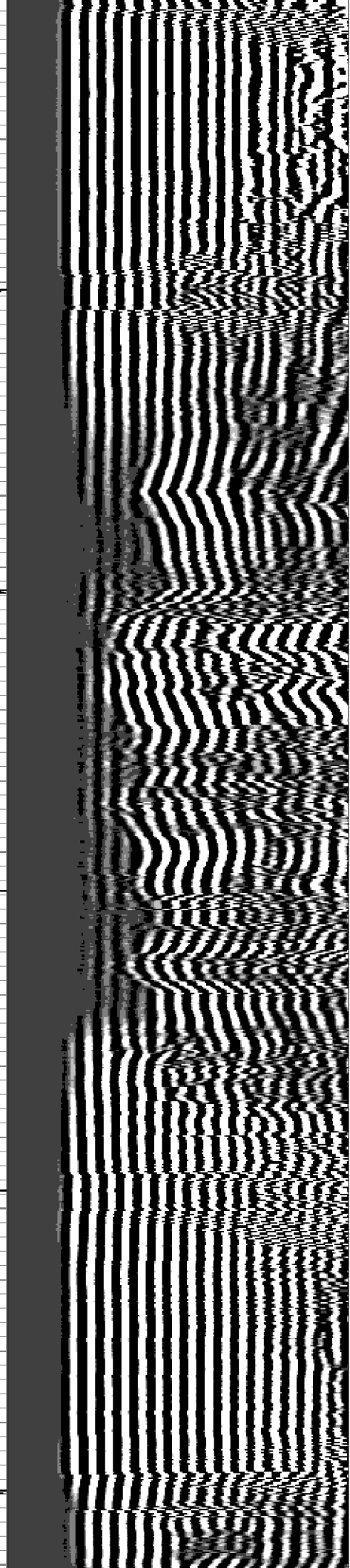
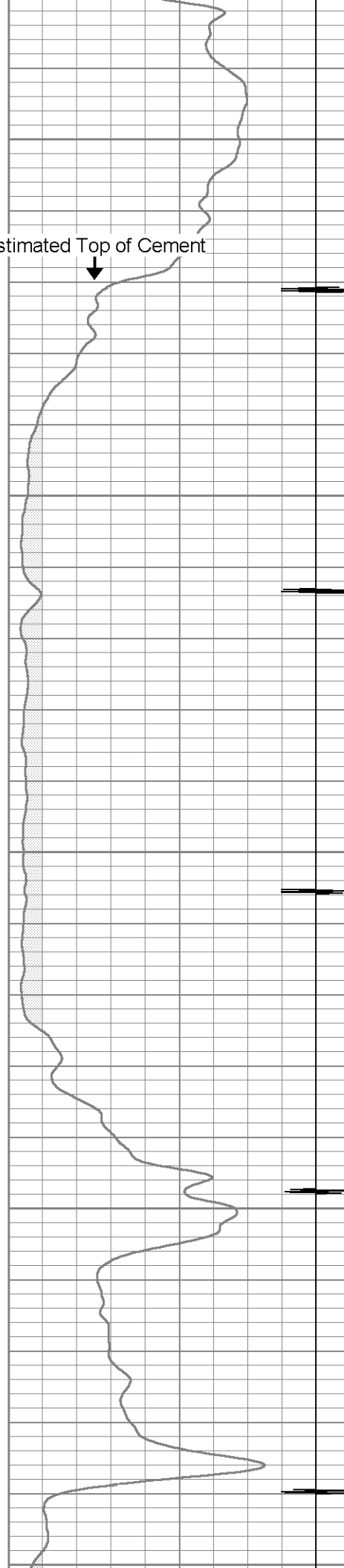


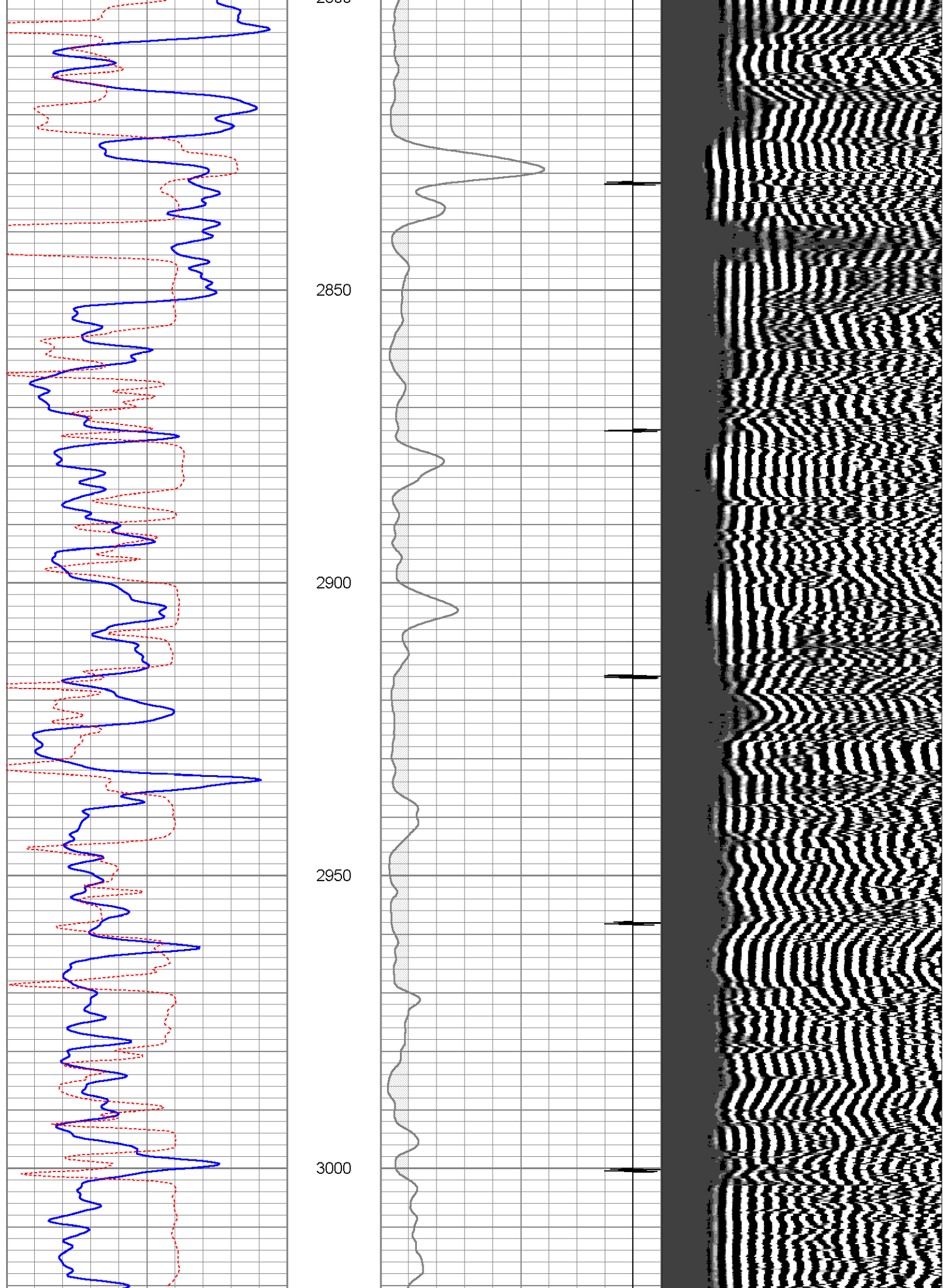
2650

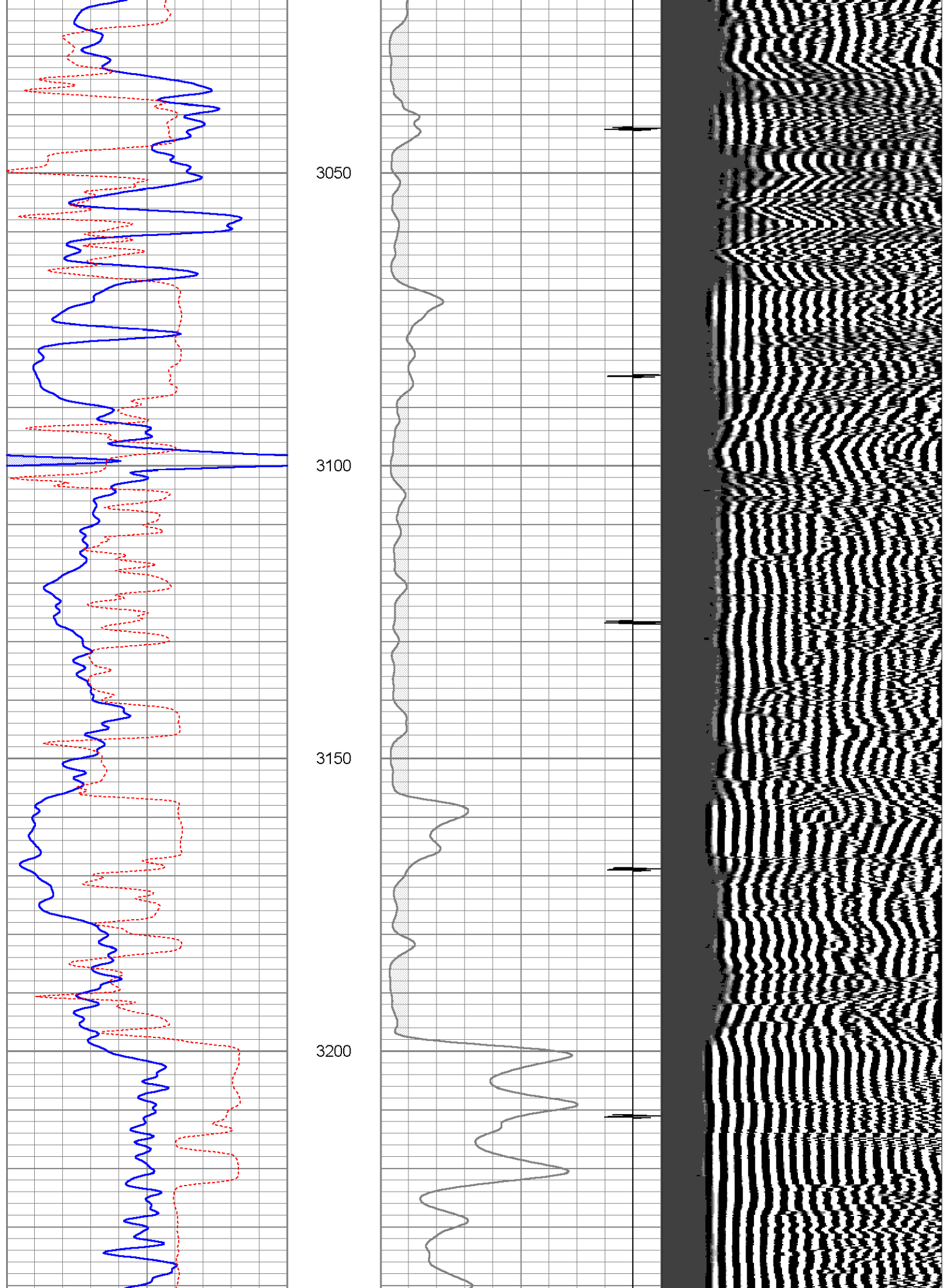
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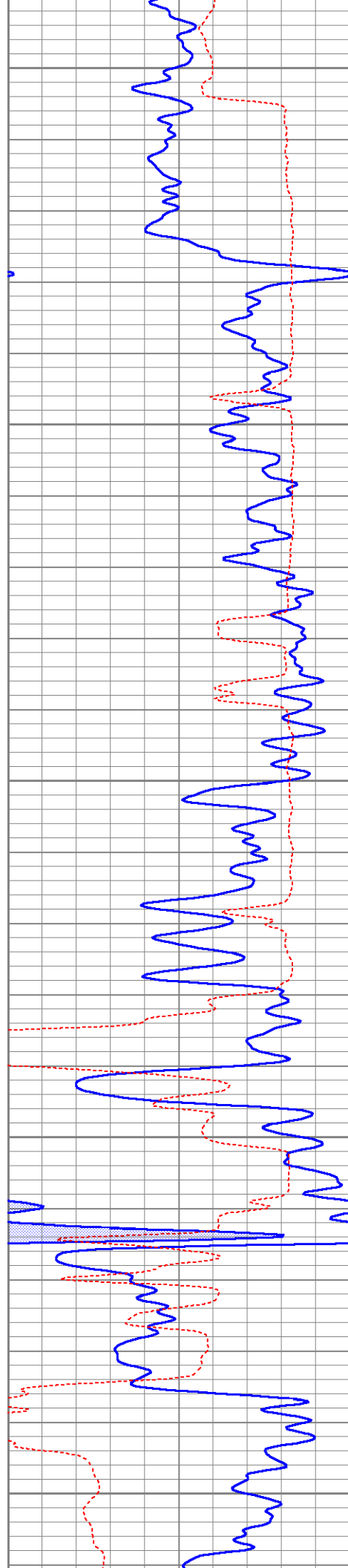
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2800









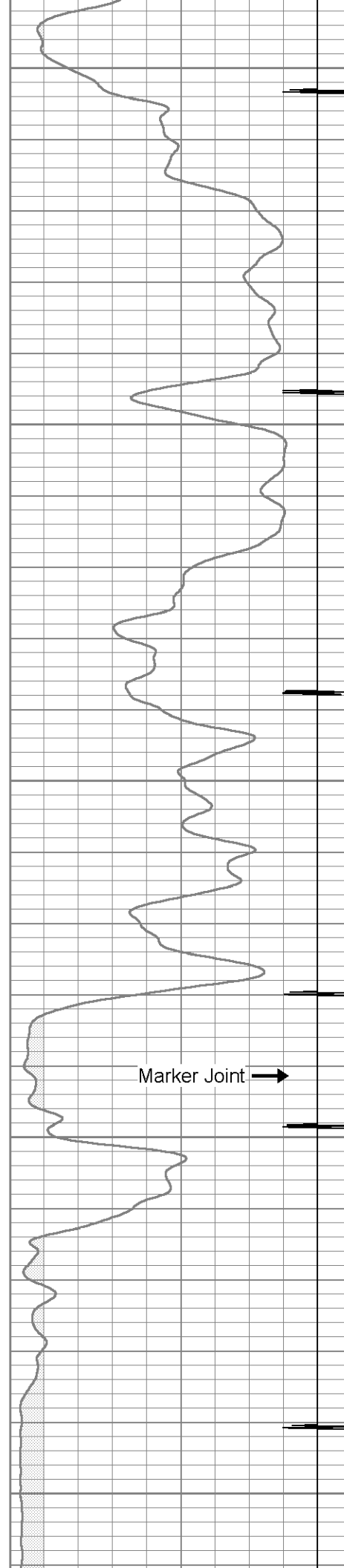
3250

3300

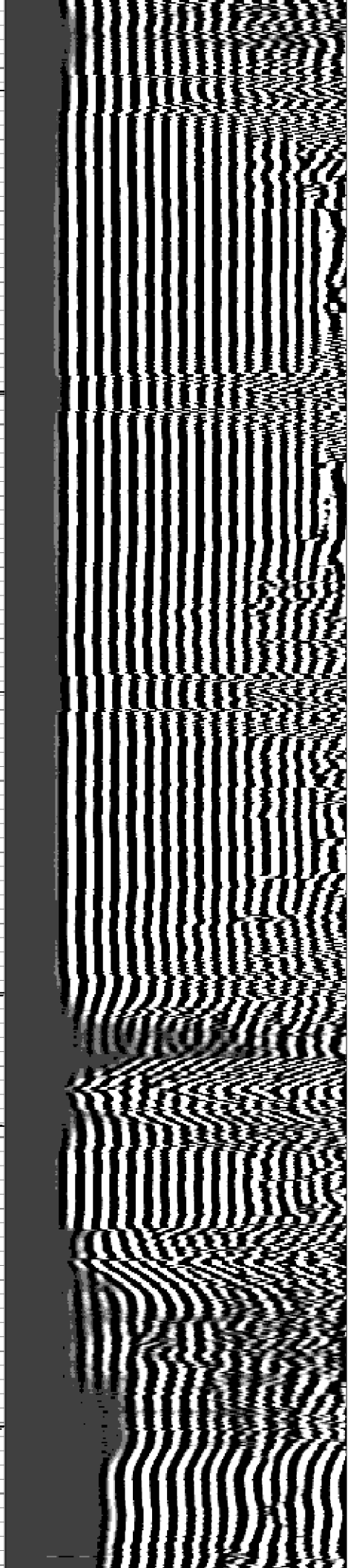
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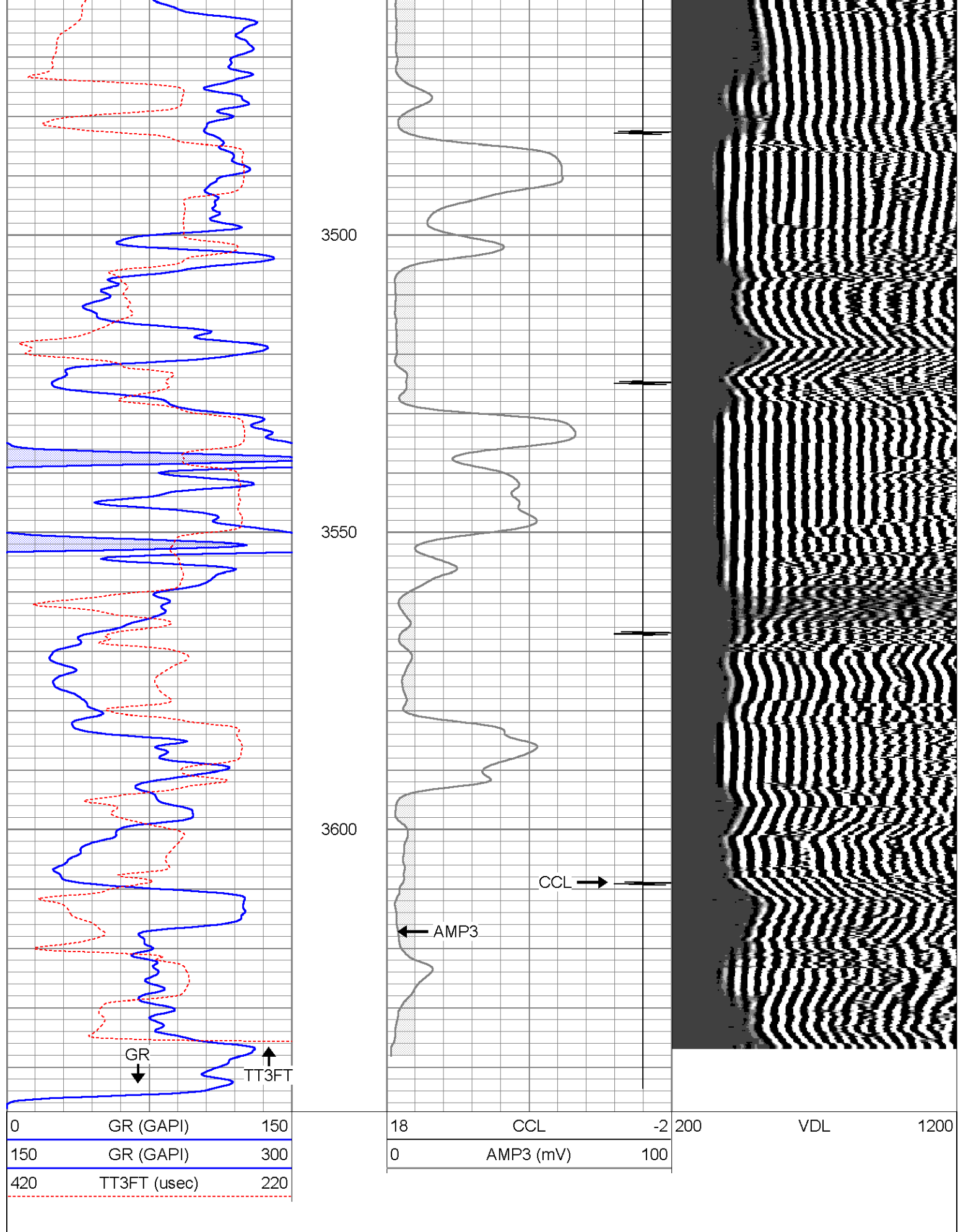
3400

3450



Marker Joint →



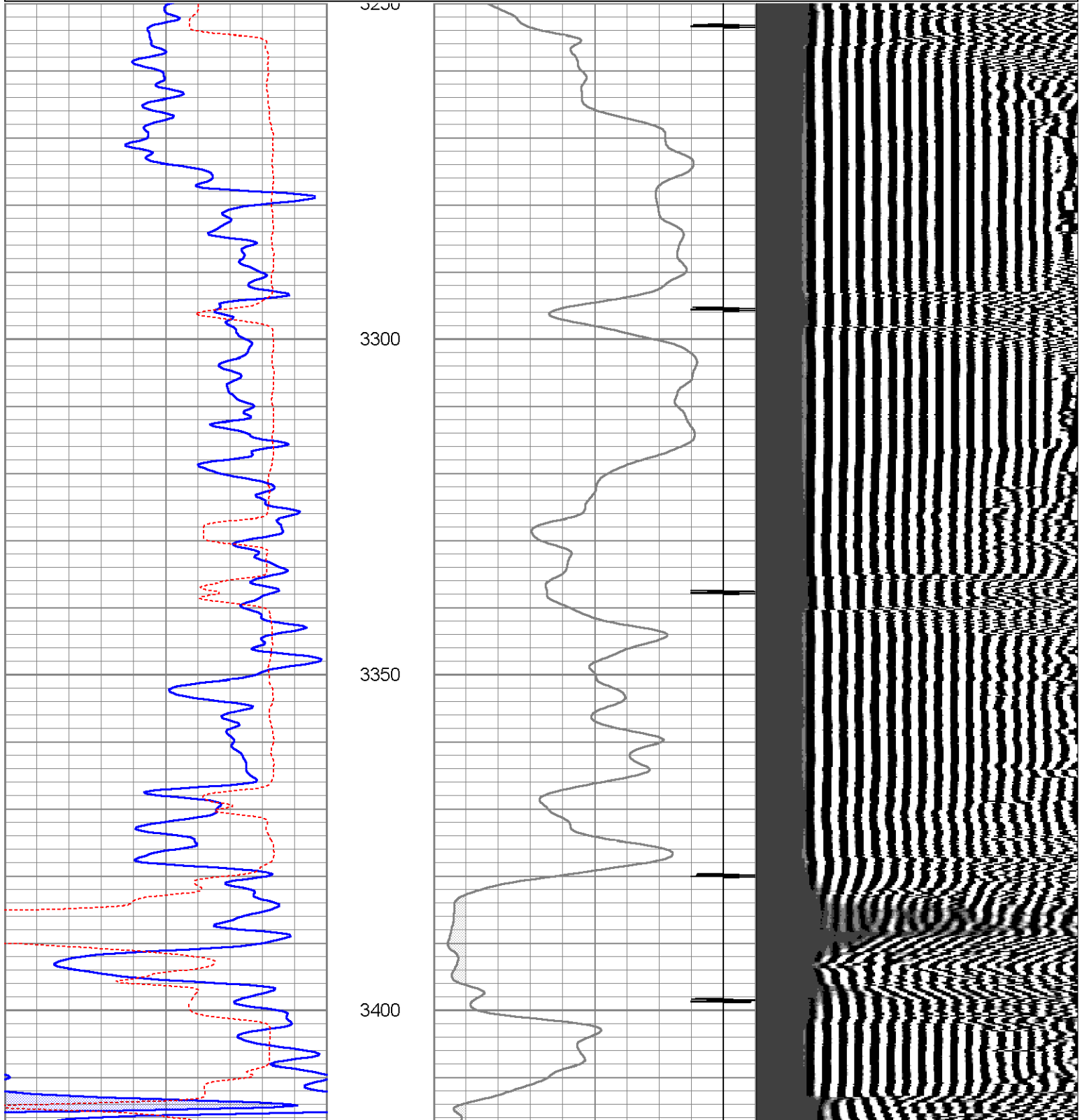


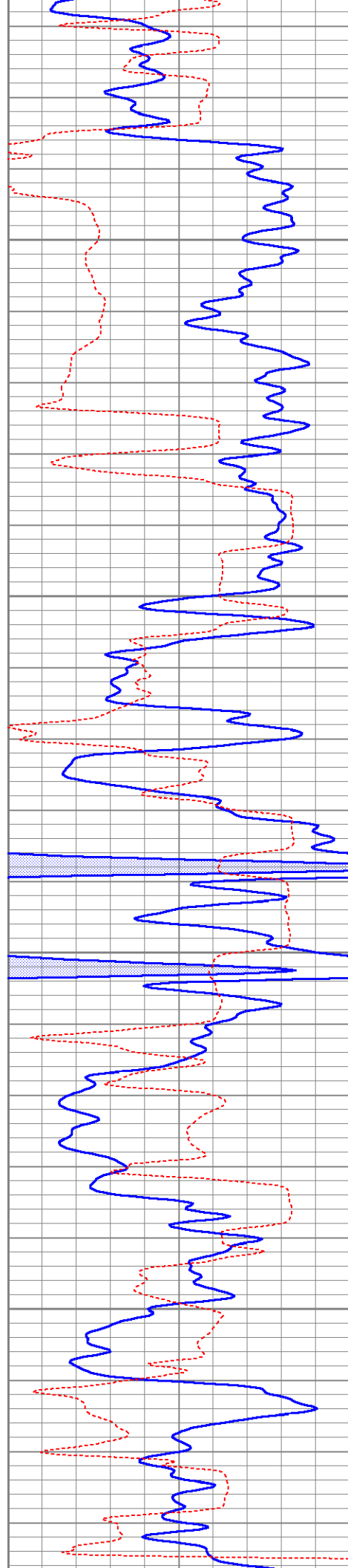


Repeat Pass

Database File: cgorrb2cbl.db
Dataset Pathname: pass10
Presentation Format: cbl
Dataset Creation: Tue Oct 29 08:12:27 2013 by Calc Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	150	18	CCL	-2	200	VDL	1200
150	GR (GAPI)	300	0	AMP3 (mV)	100			
420	TT3FT (usec)	220						



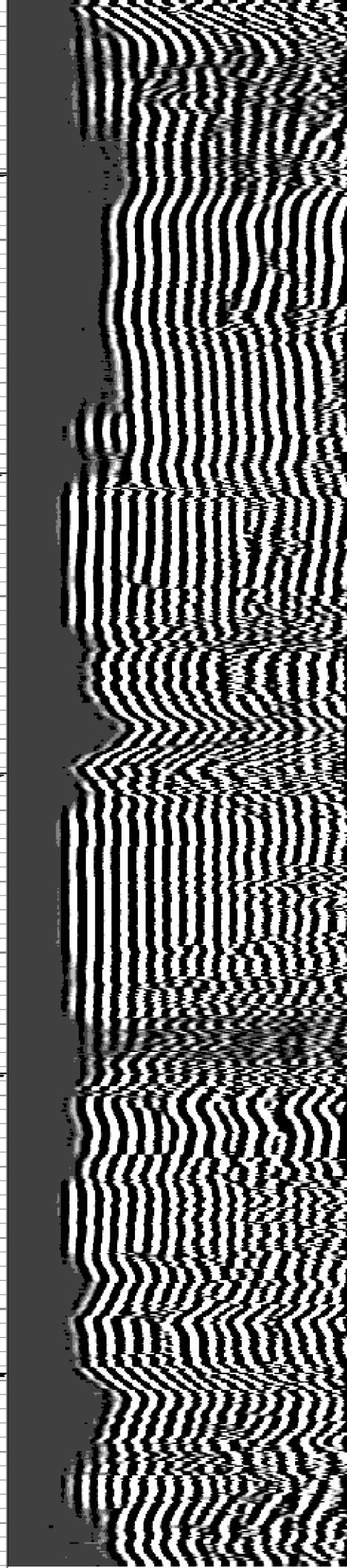
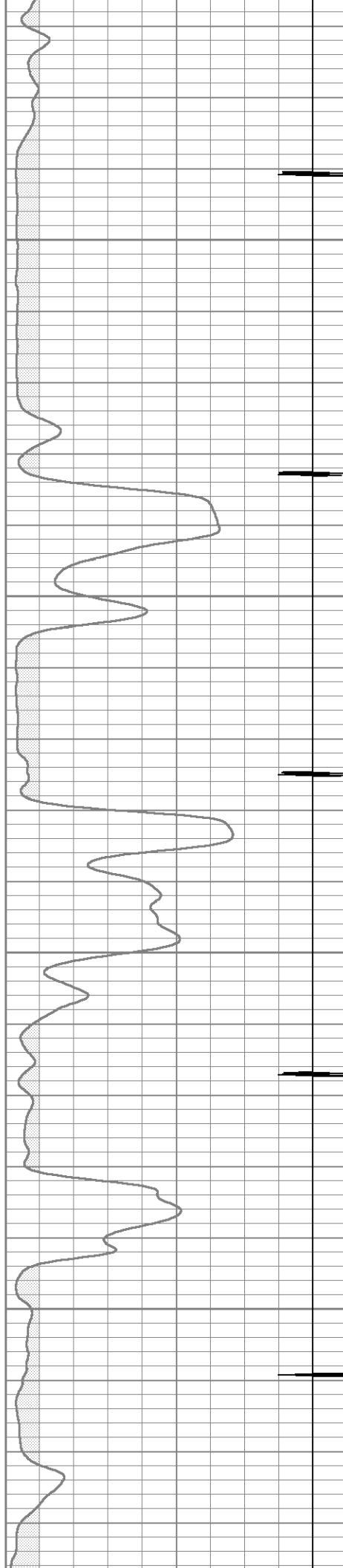


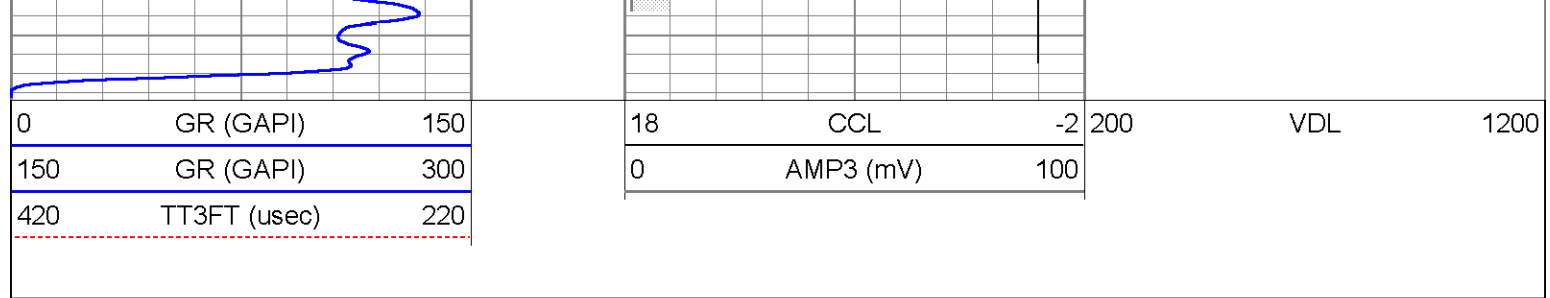
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3500

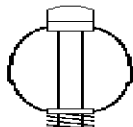
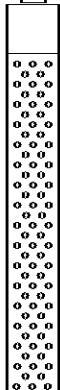
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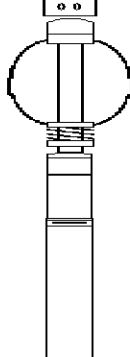
3600





Calibration Report			
Database File:	cgorrb2cbl.db		
Dataset Pathname:	pass20		
Dataset Creation:	Tue Oct 29 08:07:29 2013 by Calc Open-Cased 071220		
Gamma Ray Calibration Report			
Serial Number:	080224		
Tool Model:	Probe1		
Performed:	Thu Sep 27 07:34:48 2012		
Calibrator Value:	200.0	GAPI	
Background Reading:	15.0	cps	
Calibrator Reading:	222.7	cps	
Sensitivity:	0.9629	GAPI/cps	
Cement Bond Log Calibration Report			
Serial Number:	061007		
Tool Model:	DigitalCBL		
Performed:	Wed Oct 02 15:13:49 2013		
Depth:	1860.17	ft	
Casing Diameter:	5.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	2	0	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	0.00632324	0.00632324	V
Reading in Free Pipe:	0.86	0.736694	V
Gain:	81.9057	98.4719	
Offset:	1.48209	-0.622661	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			275 2 3/4" Centralizer	2.94	2.75	10.00
WVF3	11.69		Probedig-DigitalCBL (061007) 2 3/4 Bond Tool	8.77	2.75	92.00
WVF5	10.69					

CCL GR	3.67		275 2 3/4" Centralizer	2.94	2.75	10.00
			CCL-Probe (080224)	1.42	2.75	20.00
	2.30		GR-Probe1 (080224)	3.08	2.75	40.00
Dataset: cgorrb2cbl.db: field/well/run1/pass20 Total Length: 19.14 ft Total Weight: 172.00 lb O.D. 2.75 in						