

CEMENT BOND LOG

Company John O Farmer Inc.					
Well Froelich C #1-31					
Field Emmerman Notheast					
County Ellis State KS					
Location:		API #: 15 051 26360-00-00		Other Services	
SEC 27 TWP 12S RGE 16W		1050' FNL & 990' FEL			
Permanent Datum	Ground Level	Elevation	1948	Elevation K.B. 1956 D.F. G.L. 1948	
Log Measured From	K.B. & A.G.L.				
Drilling Measured From	KB				
Date	Run Number	9-10-12			
Depth Driller	One				
Depth Logger	3500				
Bottom Logged Interval	3478'				
Top Log Interval	3477'				
Open Hole Size	900'				
Type Fluid	7 7/8 Water				
Density / Viscosity	III				
Max. Recorded Temp.	III				
Estimated Cement Top	2330'				
Time Well Ready	Portable Mast				
Time Logger on Bottom	10:15 AM				
Equipment Number	T747				
Location	Hays, KS				
Recorded By	Casey Patterson				
Witnessed By	Mr. Val Dreher				
Borehole Record		Tubing Record			
Run Number	Bit	From	To	Size	Weight
One					
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

Log correlated to Pioneer Dual Induction Log
ran on 9/4/2012



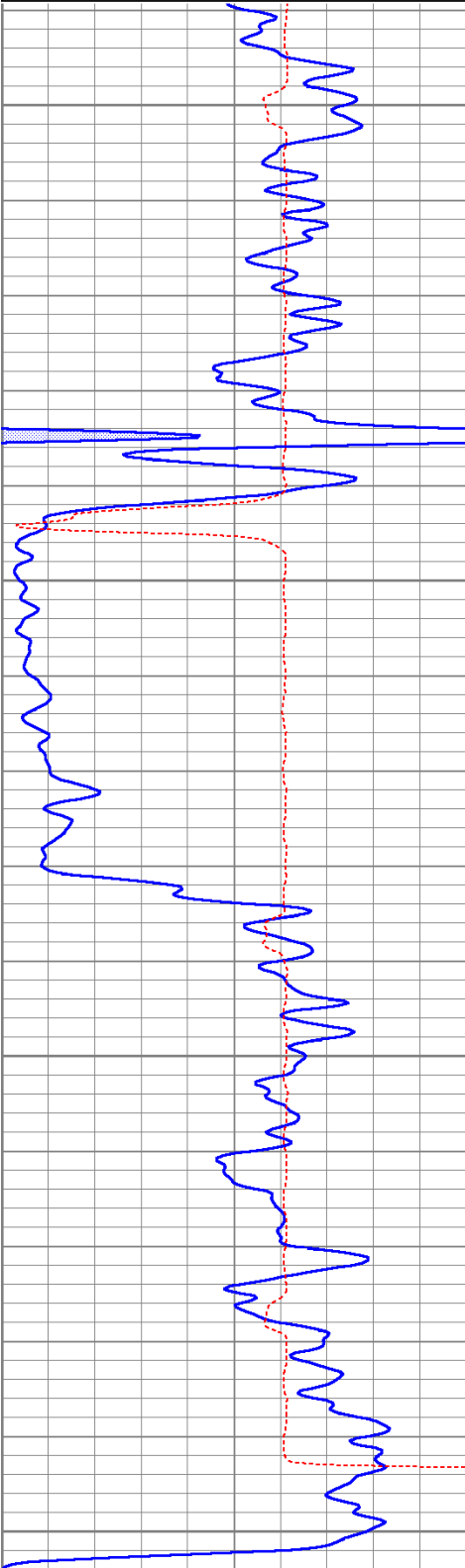
Port Collar

Database File: joffroelichc#1-31cbl.db
Dataset Pathname: pass3
Presentation Format: cbl
Dataset Creation: Mon Sep 10 11:06:50 2012 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	150
150	GR (GAPI)	300
420	TT3FT (usec)	220

18	CCL	-2
0	AMP3 (mV)	100

200 VDL 1200

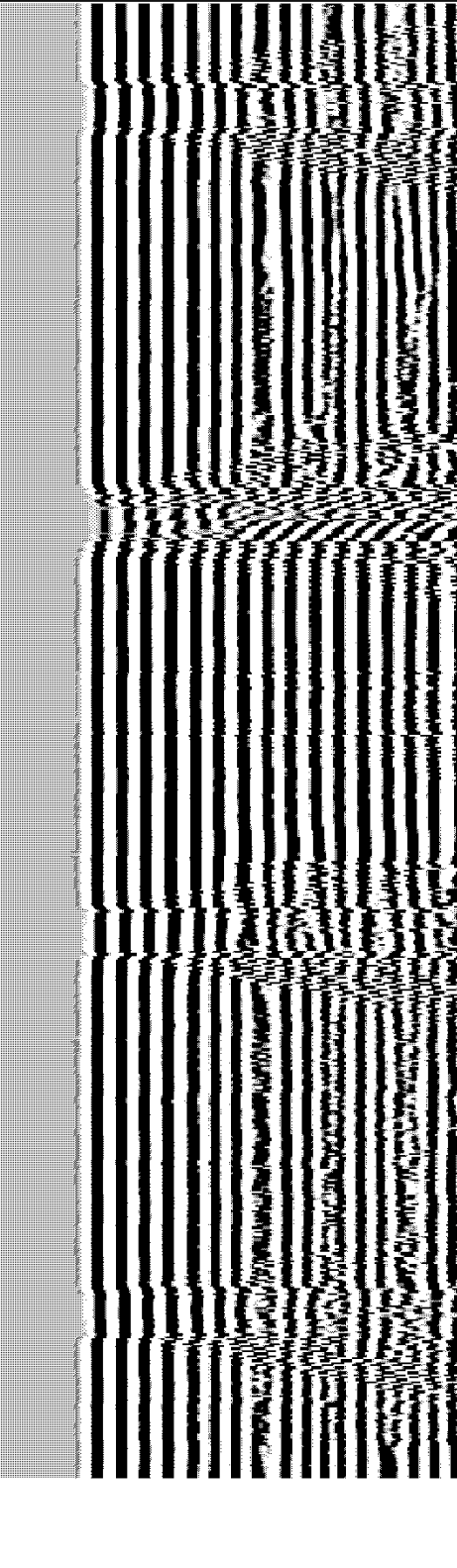
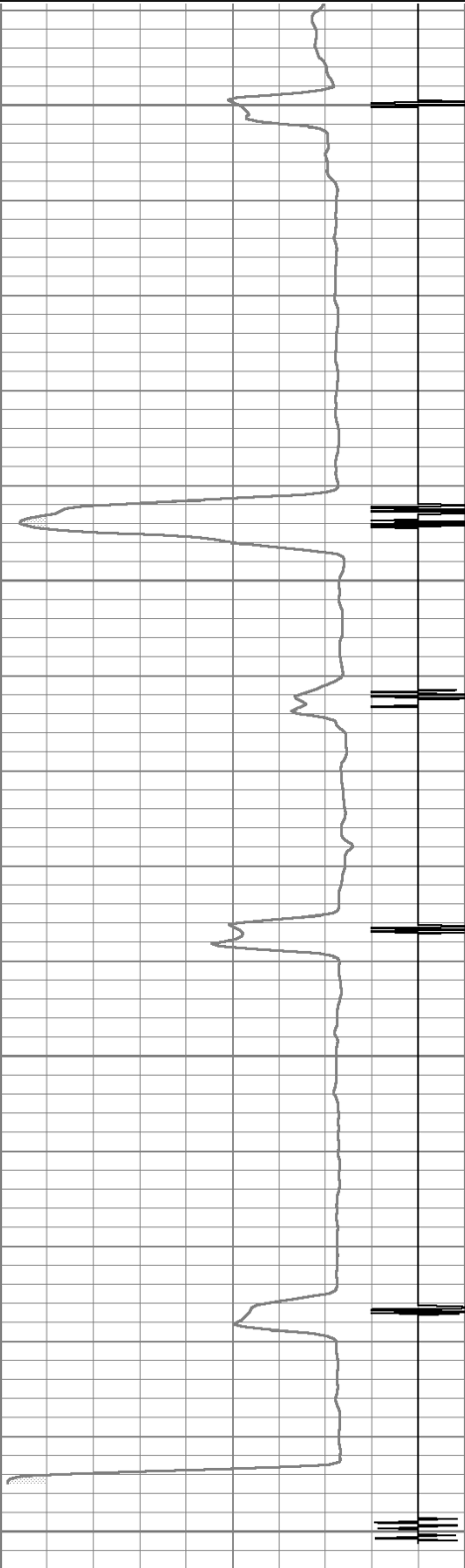


1050

1100

1150

1200



0	GR (GAPI)	150
150	GR (GAPI)	300
420	TT3FT (usec)	220

18	CCL	-2
0	AMP3 (mV)	100

200 VDL 1200

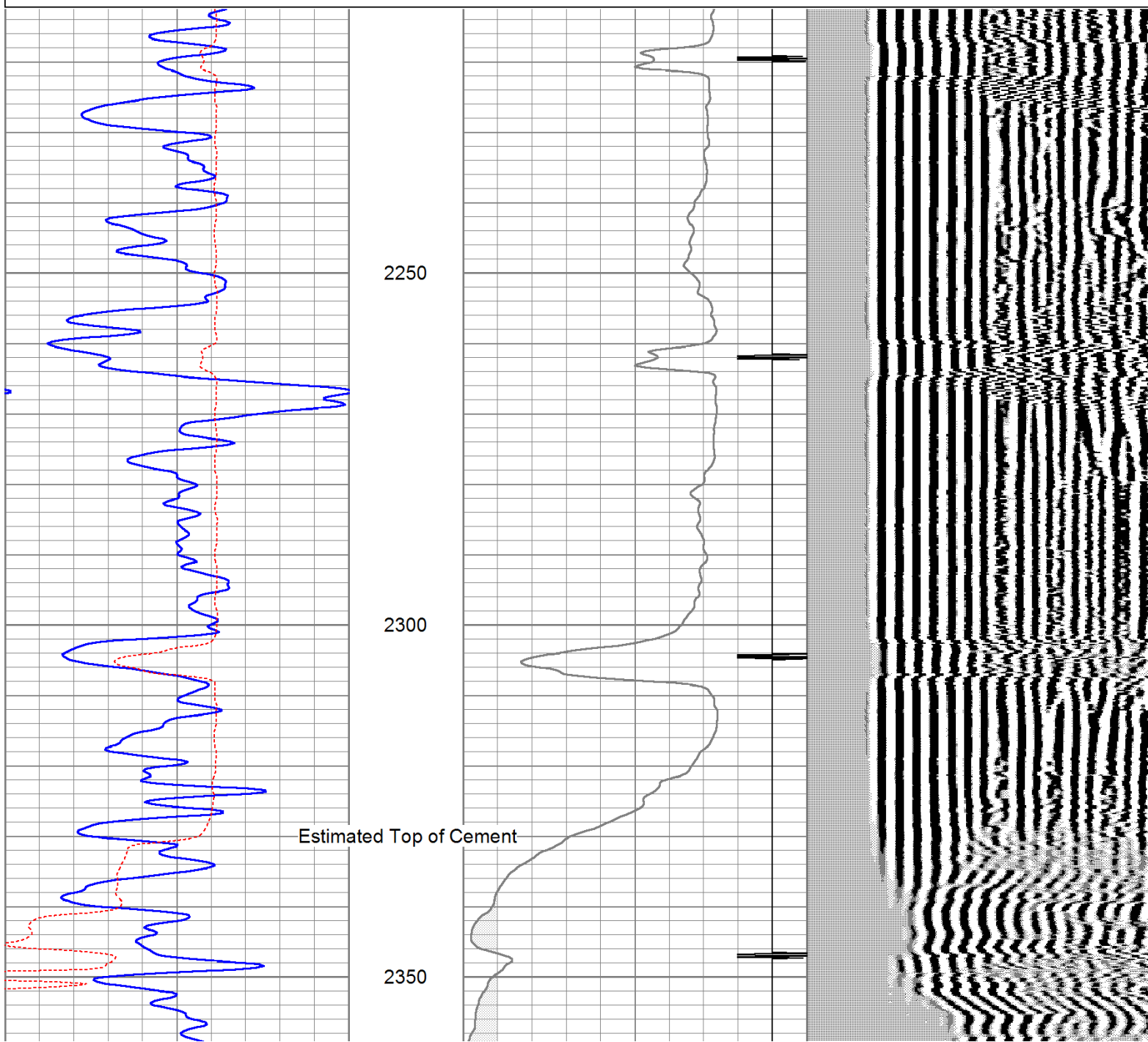


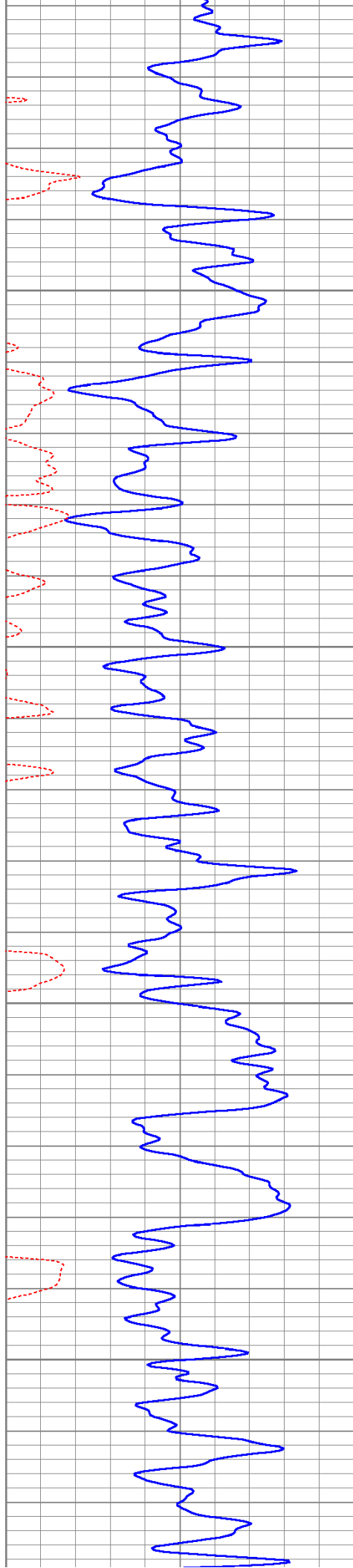
Main Pass

Database File: joffroelichc#1-31cbl.db
Dataset Pathname: pass2
Presentation Format: cbl
Dataset Creation: Mon Sep 10 10:31:32 2012 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	150
150	GR (GAPI)	300
420	TT3FT (usec)	220

18	CCL	-2	200	VDL	1200
0	AMP3 (mV)	100			



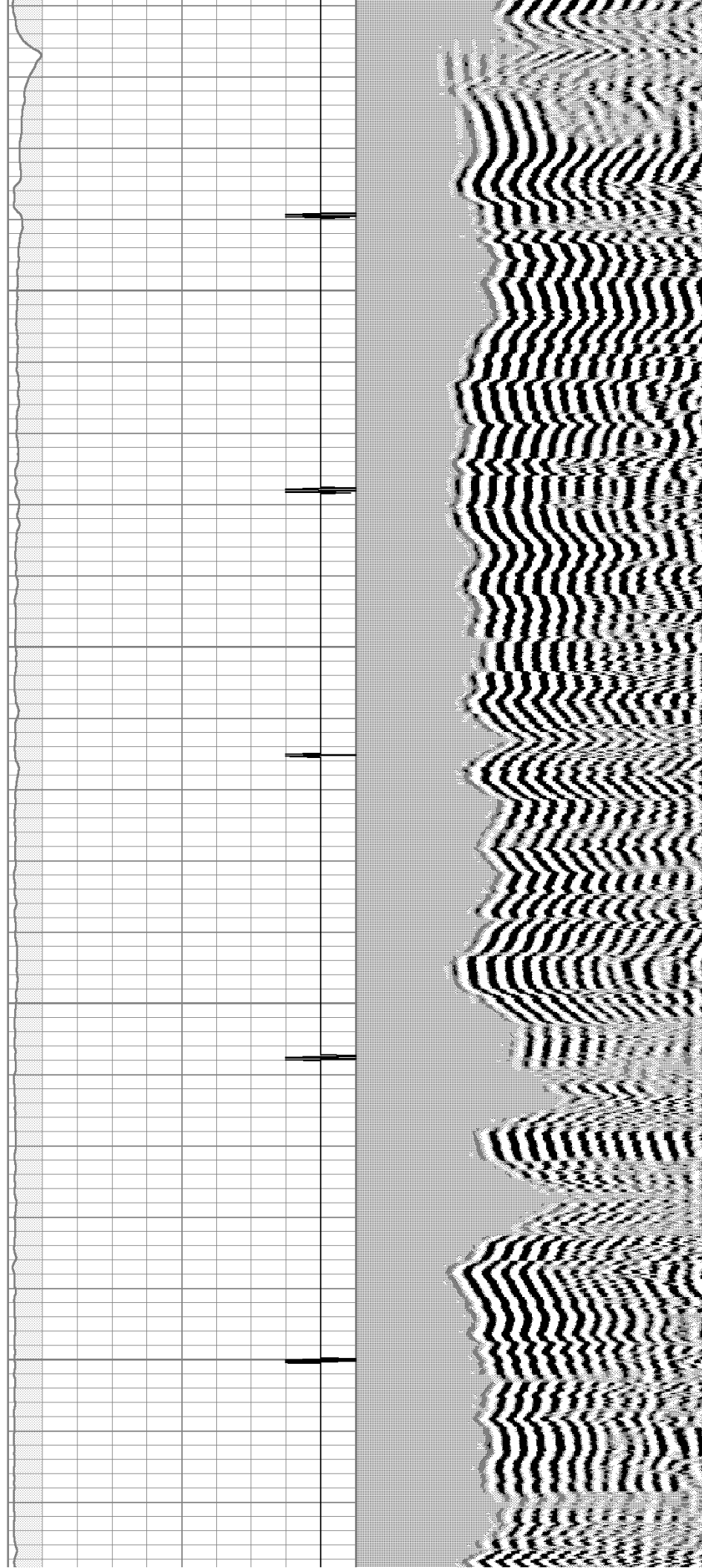


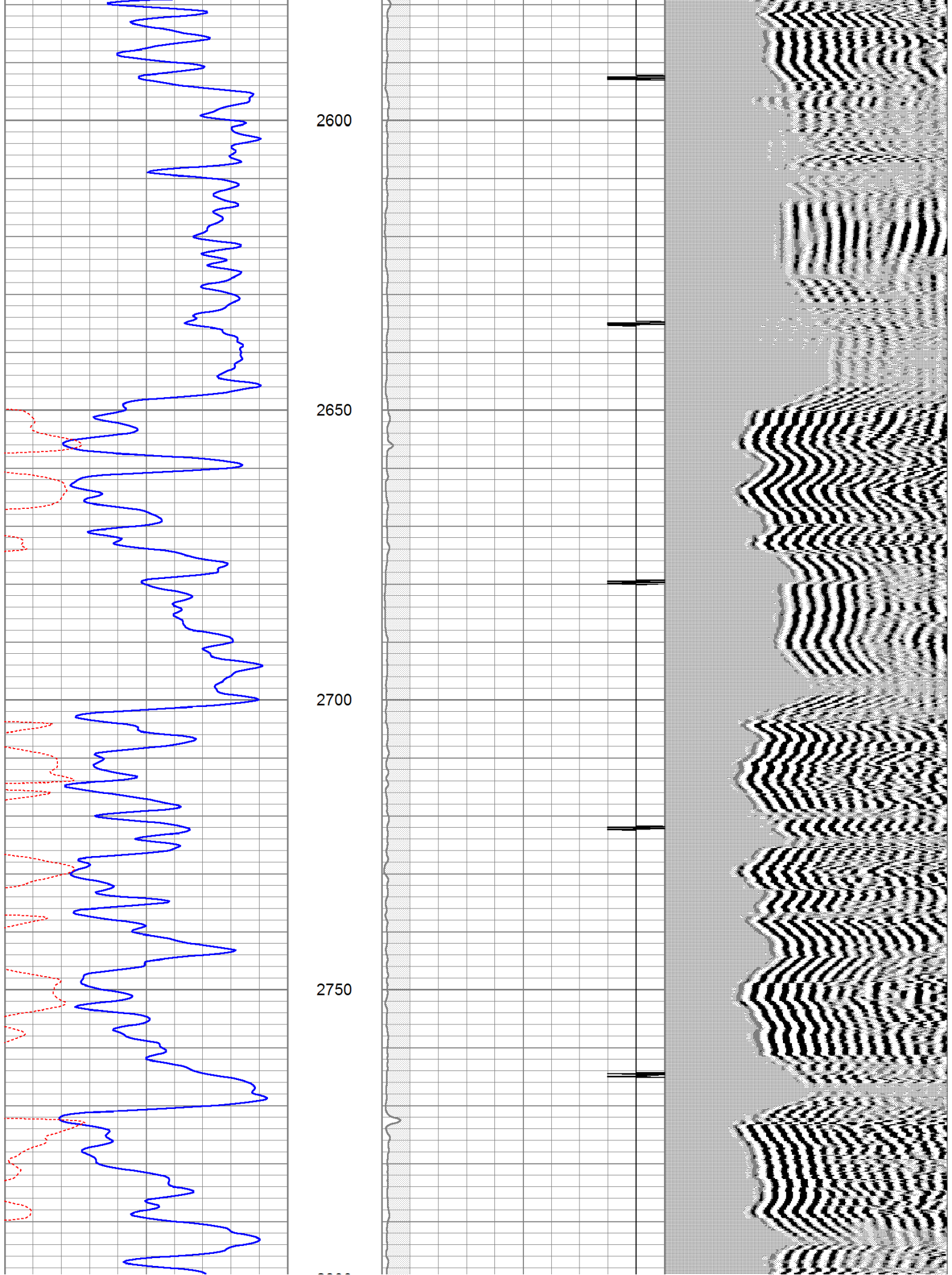
2400

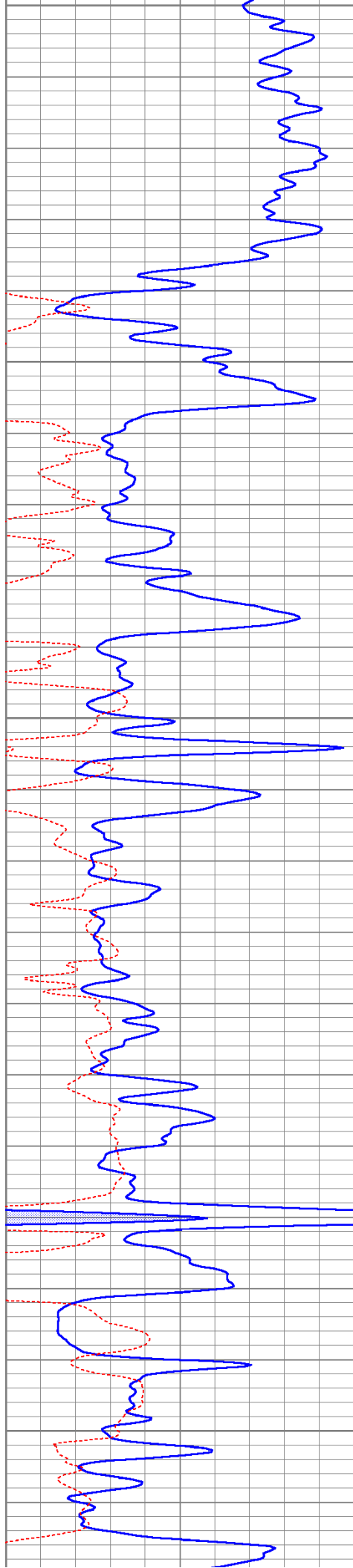
2450

2500

2550







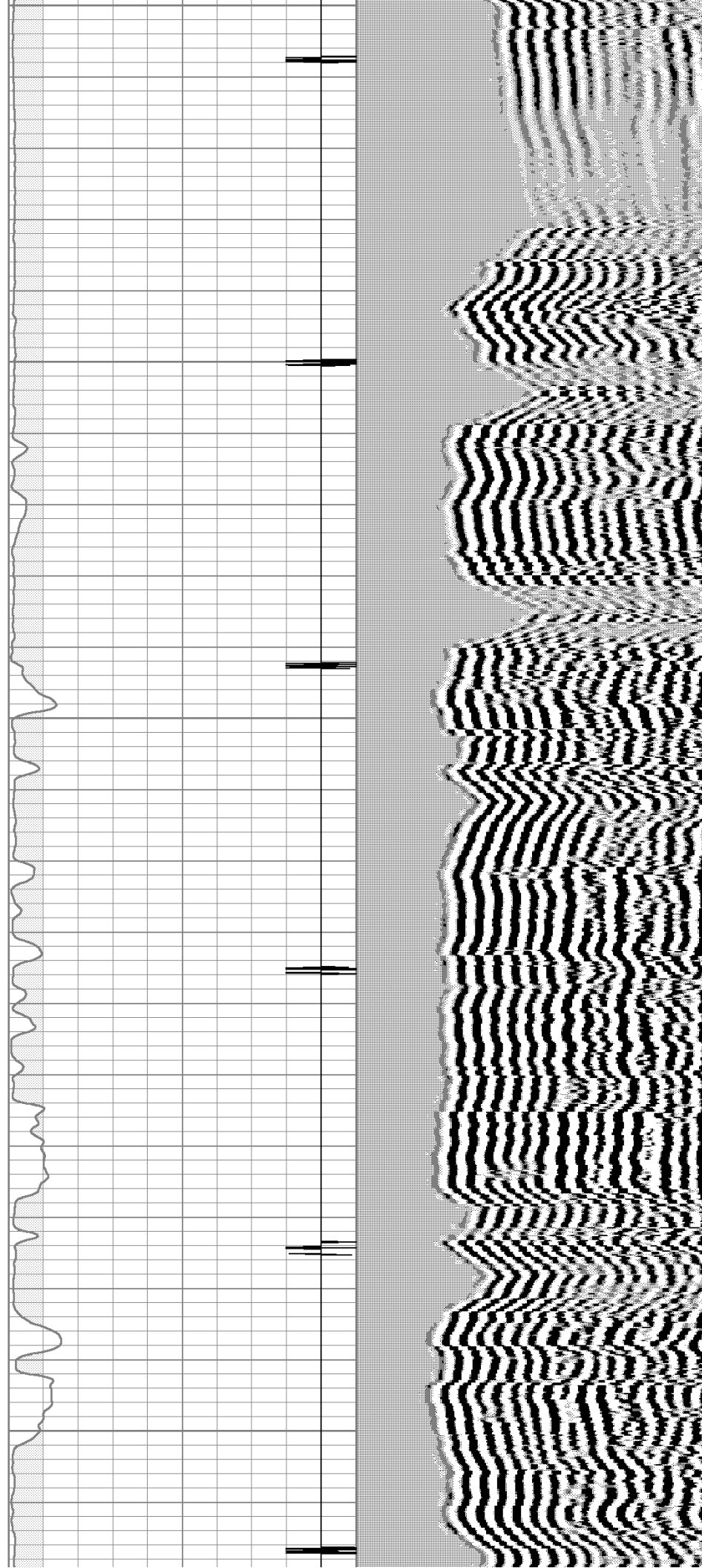
2800

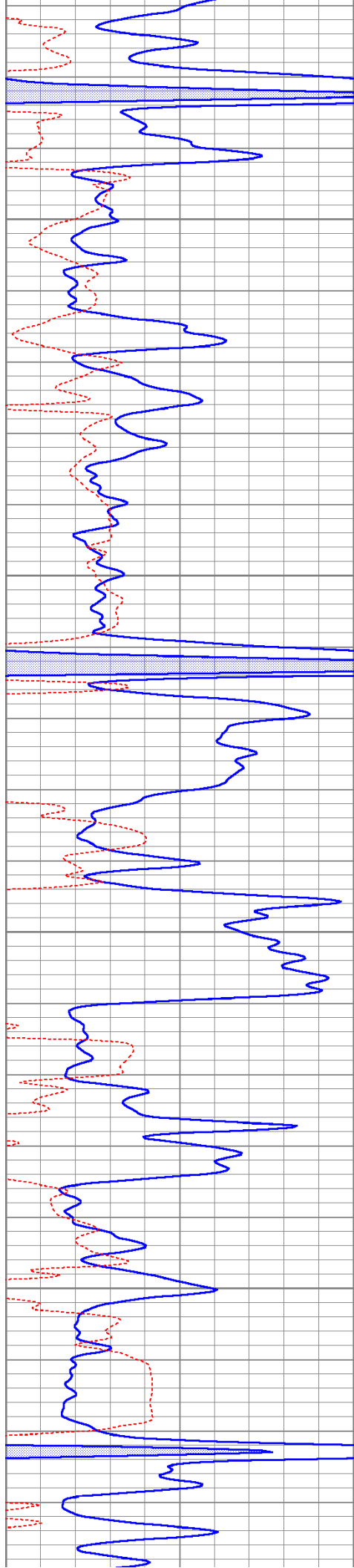
2850

2900

2950

3000



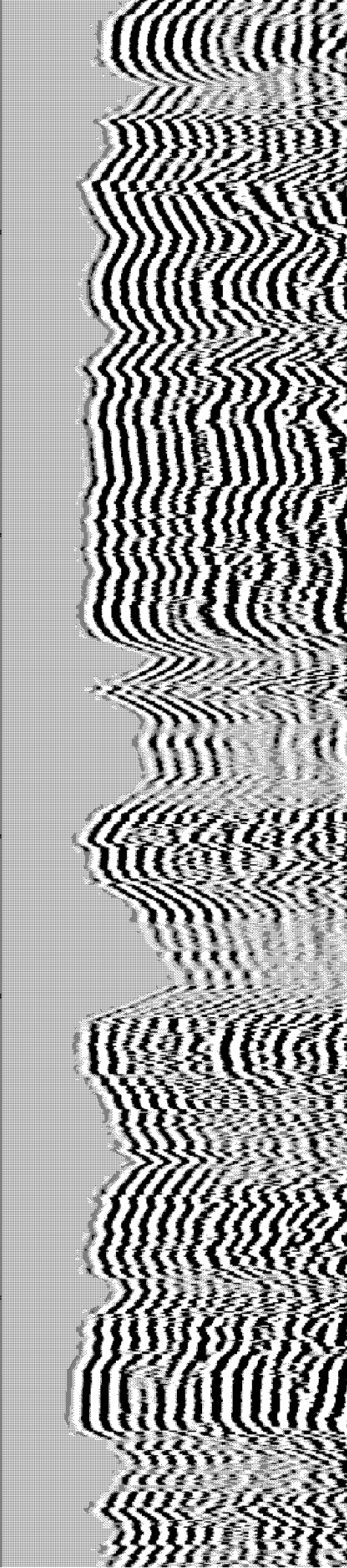
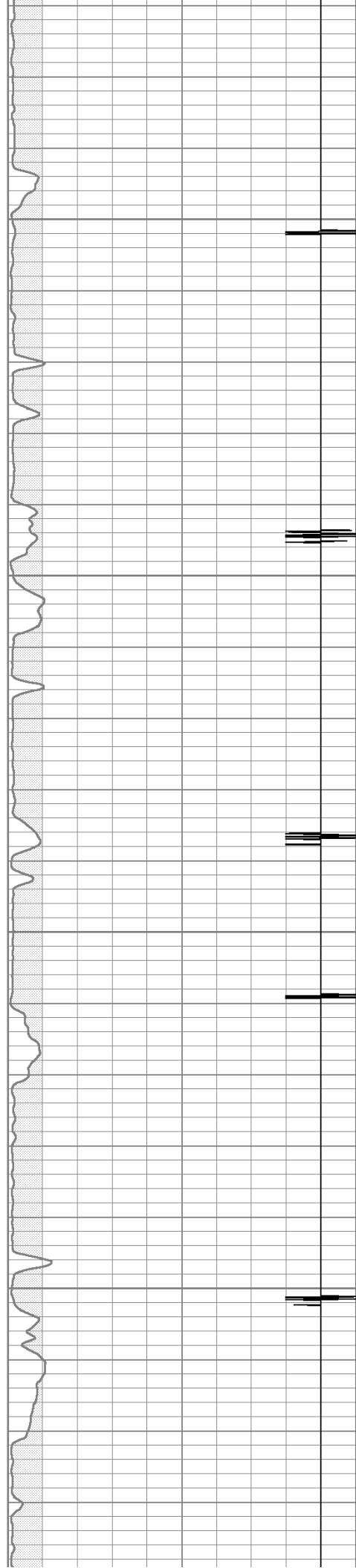


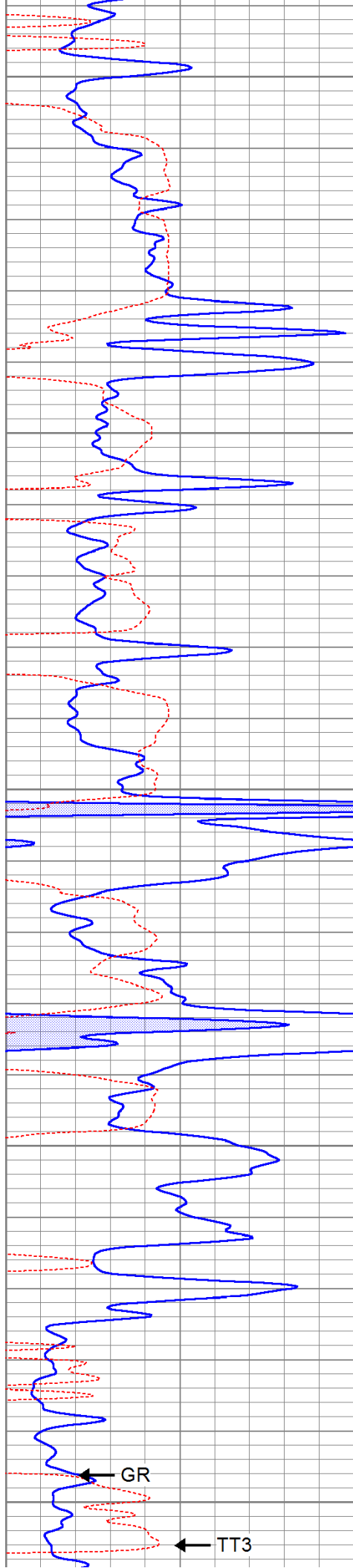
3050

3100

3150

3200





3250

3300

3350

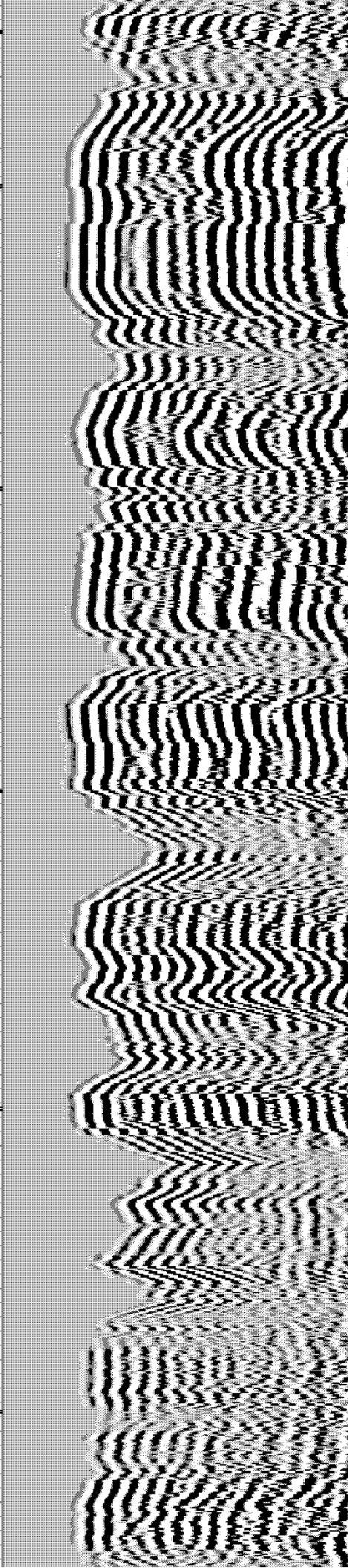
3400

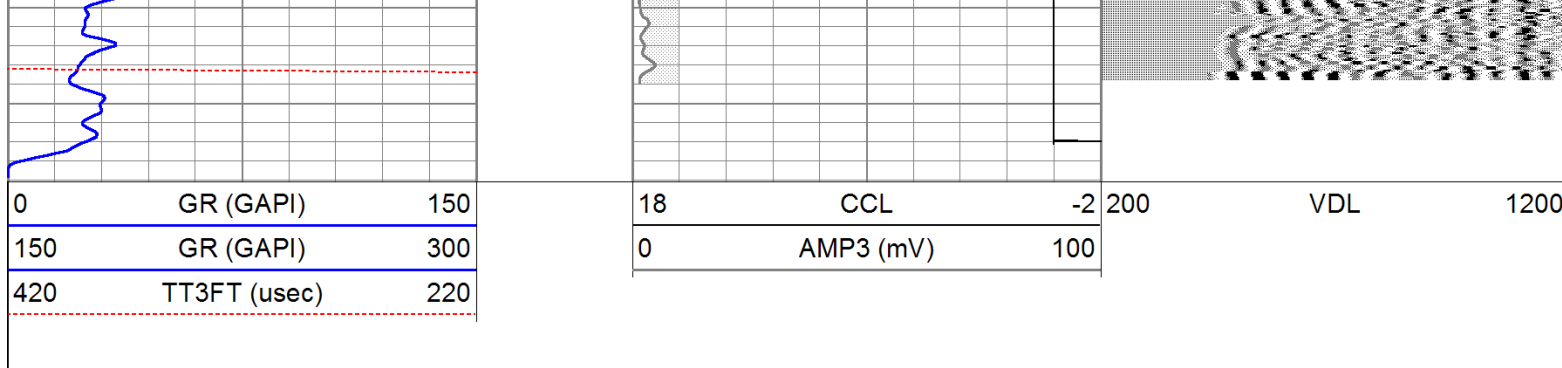
3450



AMP3

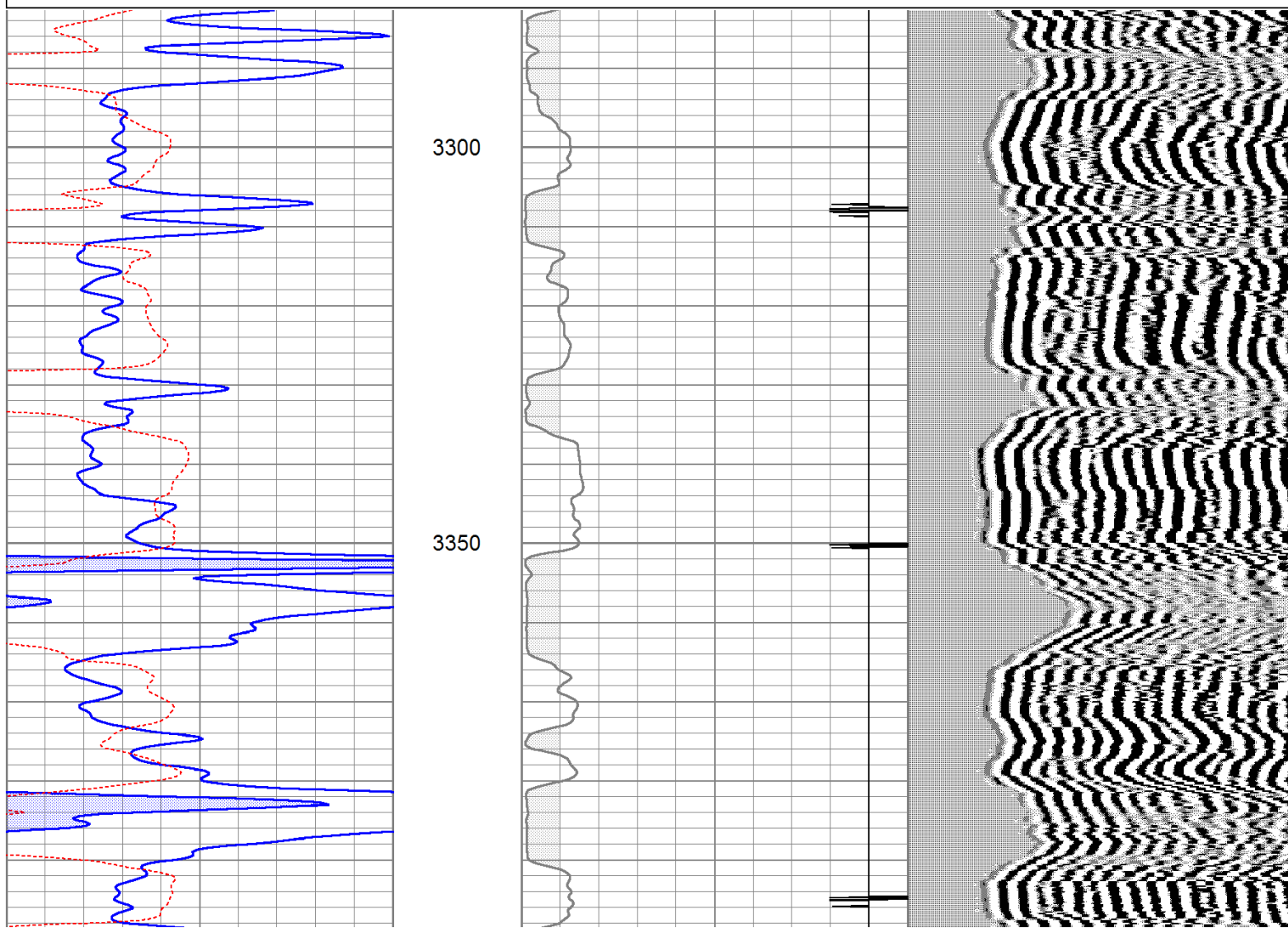
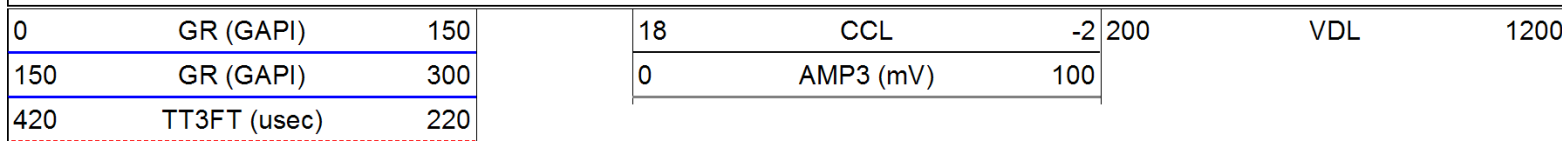
CCL

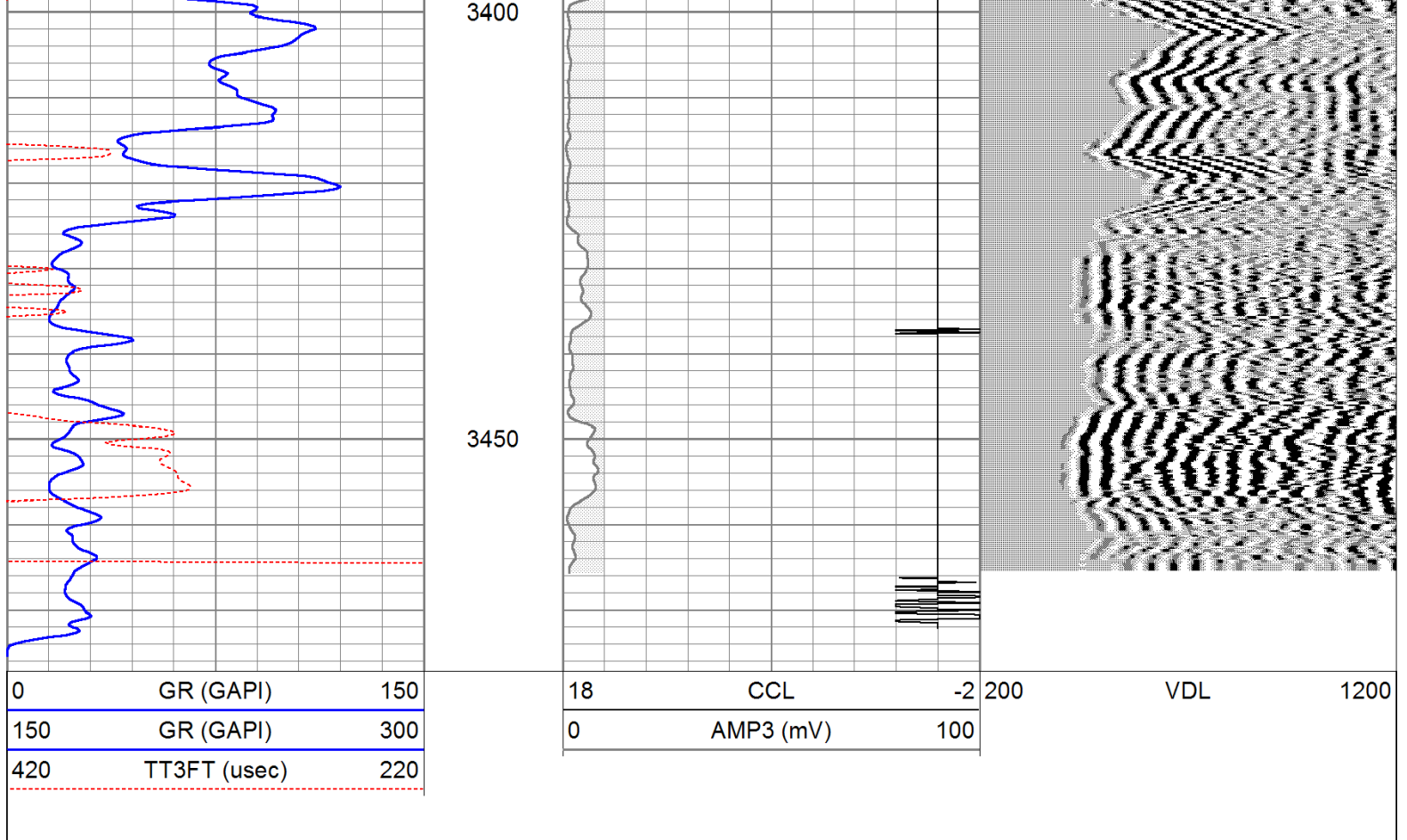




Repeat Pass

Database File: joffroelichc#1-31cbl.db
 Dataset Pathname: pass1
 Presentation Format: cbl
 Dataset Creation: Mon Sep 10 10:24:33 2012 by Log Std Casedhole 10071
 Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File: joffroelichc#1-31cbl.db
 Dataset Pathname: pass1
 Dataset Creation: Mon Sep 10 10:24:33 2012 by Log Std Casedhole 10071

Gamma Ray Calibration Report

Serial Number: 080224
 Tool Model: Probe1
 Performed: Mon Sep 10 10:18:31 2012

Calibrator Value: 200.0 GAPI

Background Reading: 15.0 cps
 Calibrator Reading: 222.7 cps

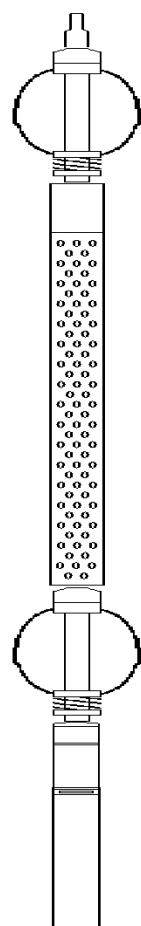
Sensitivity: 0.9629 GAPI/cps

Cement Bond Log Calibration Report

Serial Number: 061007
 Tool Model: DigitalCBL
 Performed: Mon Sep 10 10:15:36 2012

Depth: 1208.34 ft
 Casing Diameter: 5.5 in

	3' Spacing	5' Spacing	
Signal Zero:	1	0	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	-0.0133301	-0.0127686	V
Reading in Free Pipe:	1.5958	1.52576	V
Gain:	44.0741	46.7467	
Offset:	1.58751	0.596888	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			sdschd	0.75	1.44	3.00
			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					
			275 2 3/4" Centralizer	2.94	2.75	10.00
CCL	3.67		CCL-Probe (080224)	1.42	2.75	20.00
GR	2.30		GR-Probe1 (080224)	3.08	2.75	40.00
Dataset: joffroelichc#1-31cbl.db: field/well/run1/pass2 Total Length: 19.89 ft Total Weight: 175.00 lb O.D. 2.75 in						