



CEMENT BOND LOG

Company Charles N. Griffin
Well Cunningham #1
Field Medicine River Ext
County Barber
State Kansas

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County Barber
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Location: 330' FSL & 990' FWL
APL #: 15 007 24044
Other Services
SEC 10 TWP 32S RGE 12W
Permanent Datum Ground Level Elevation 1527'
Log Measured From KB 8' AGL
Drilling Measured From KB
Elevation
K.B. 1535'
D.F. 1534'
G.L. 1527'

Date	8-3-13						
Run Number	One						
Depth Driller	4800'						
Depth Logger	4767'						
Bottom Logged Interval	4766'						
Top Log Interval	3000'						
Open Hole Size	7 7/8"						
Type Fluid	Water						
Density / Viscosity	////						
Max. Recorded Temp.	////						
Estimated Cement Top	3148'						
Time Well Ready	8:00 A.M						
Time Logger on Bottom	8:20 A.M						
Equipment Number	T-440						
Location	Hays, Ks						
Recorded By	Casey Patterson						
Witnessed By	Mr. JR Griffin						
Borehole Record				Tubing 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.

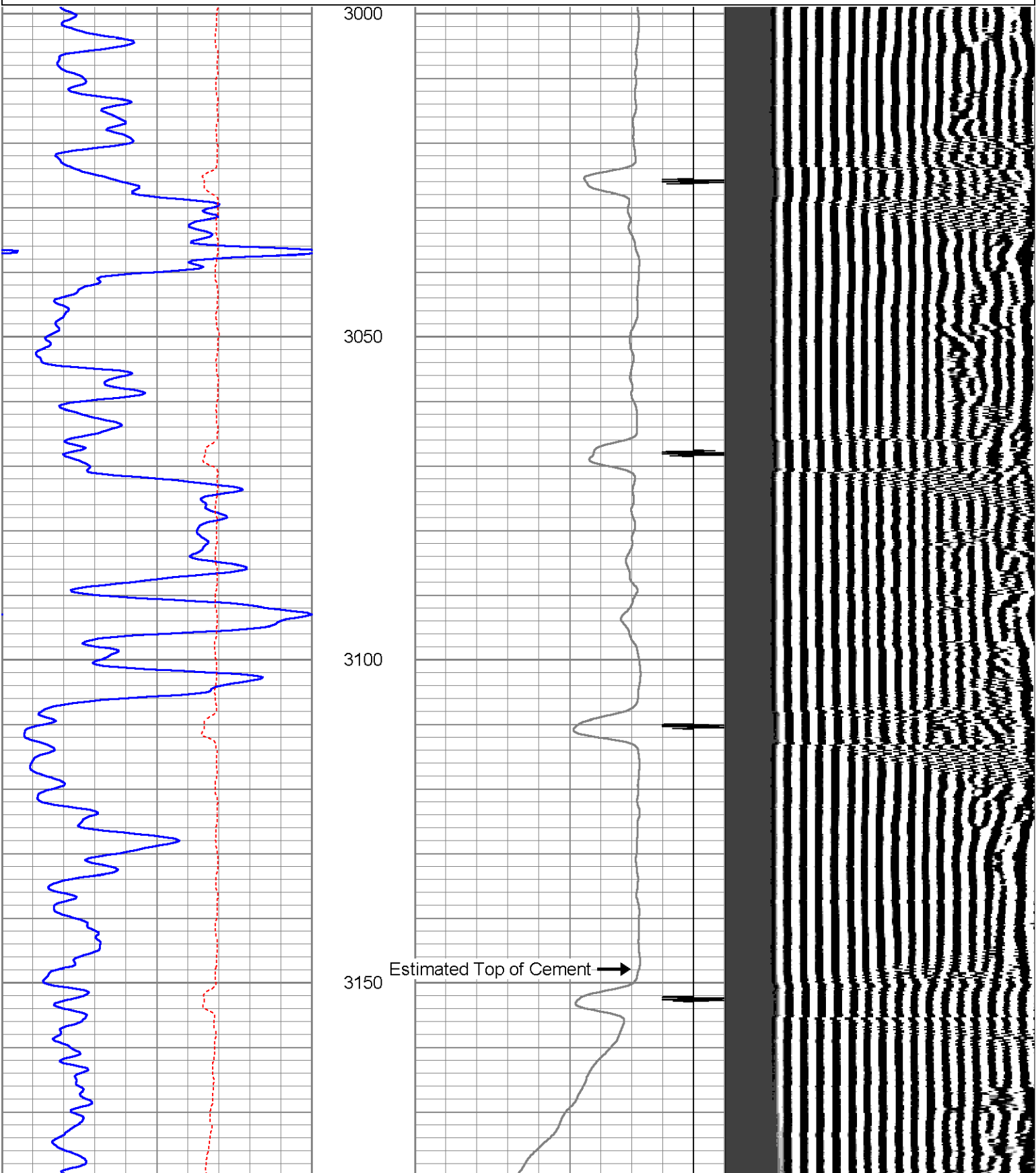
Comments

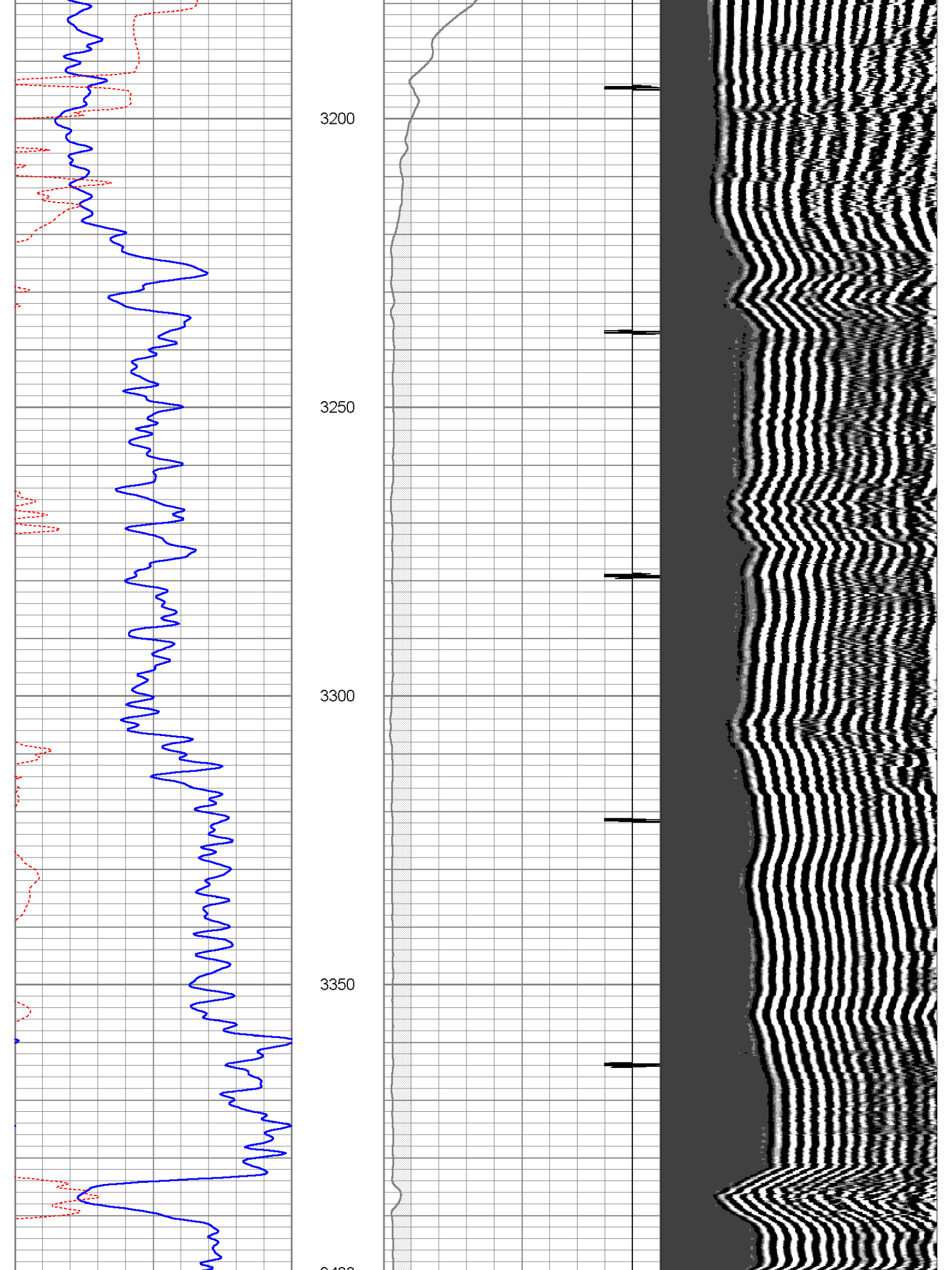


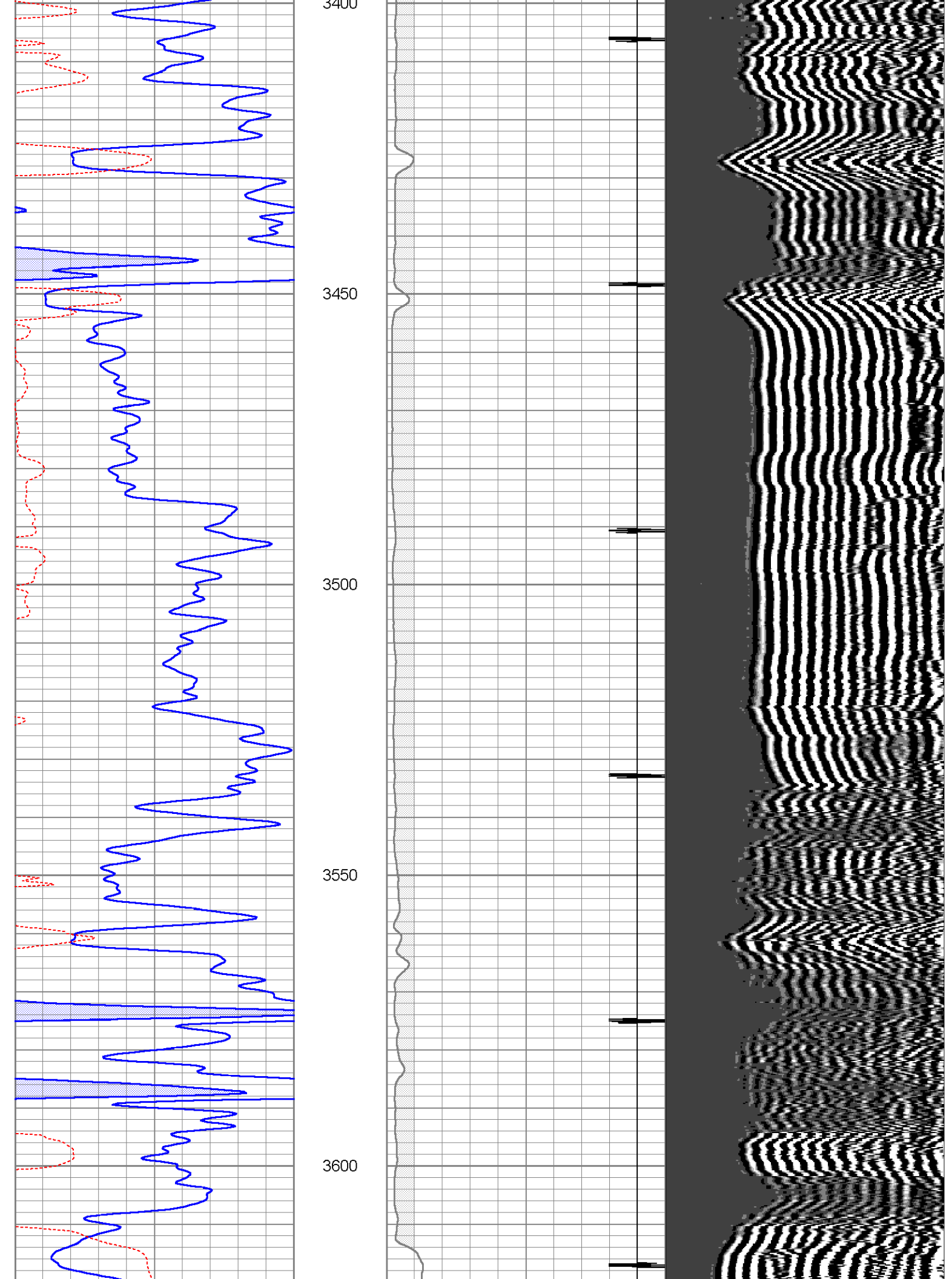
Main Pass

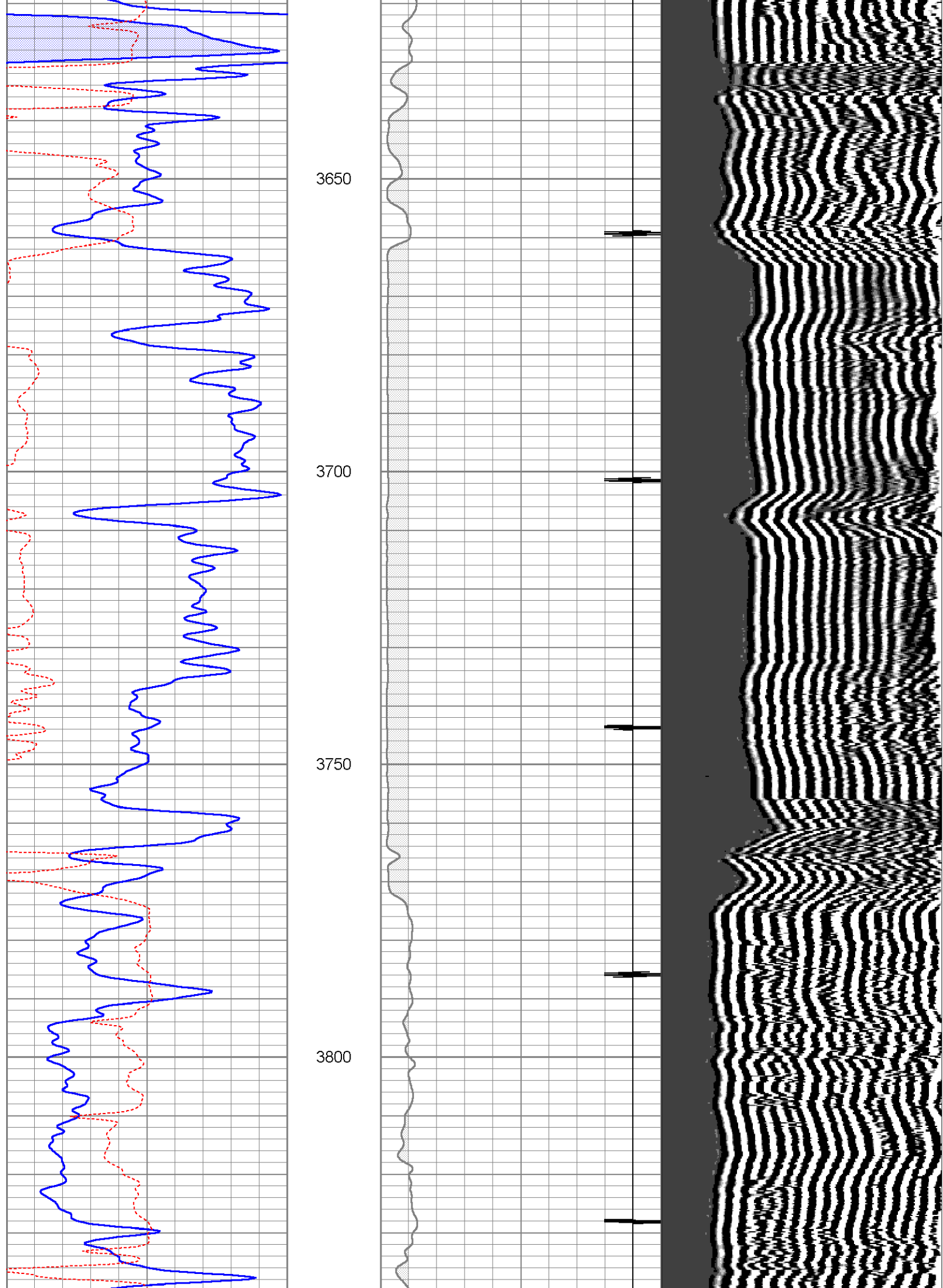
Database File: cgcunningham1cbl.db
Dataset Pathname: pass3
Presentation Format: cbl
Dataset Creation: Mon Aug 05 08:36:33 2013 by Log Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

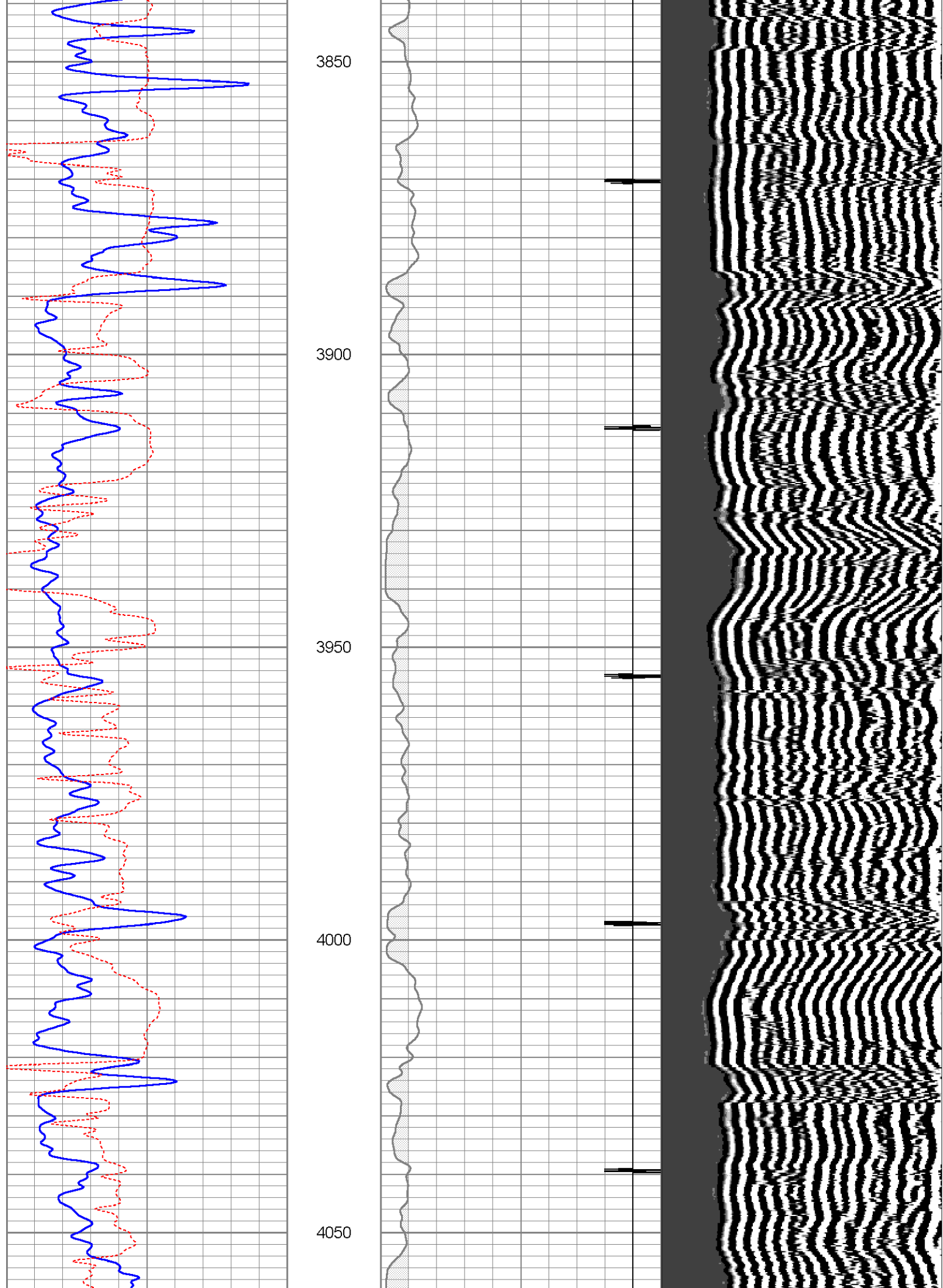
0	GR (GAPI)	150	18	CCL	-2	200	VDL	1200
150	GR (GAPI)	300	0	AMP3 (mV)	100			
420	TT3FT (usec)	220						

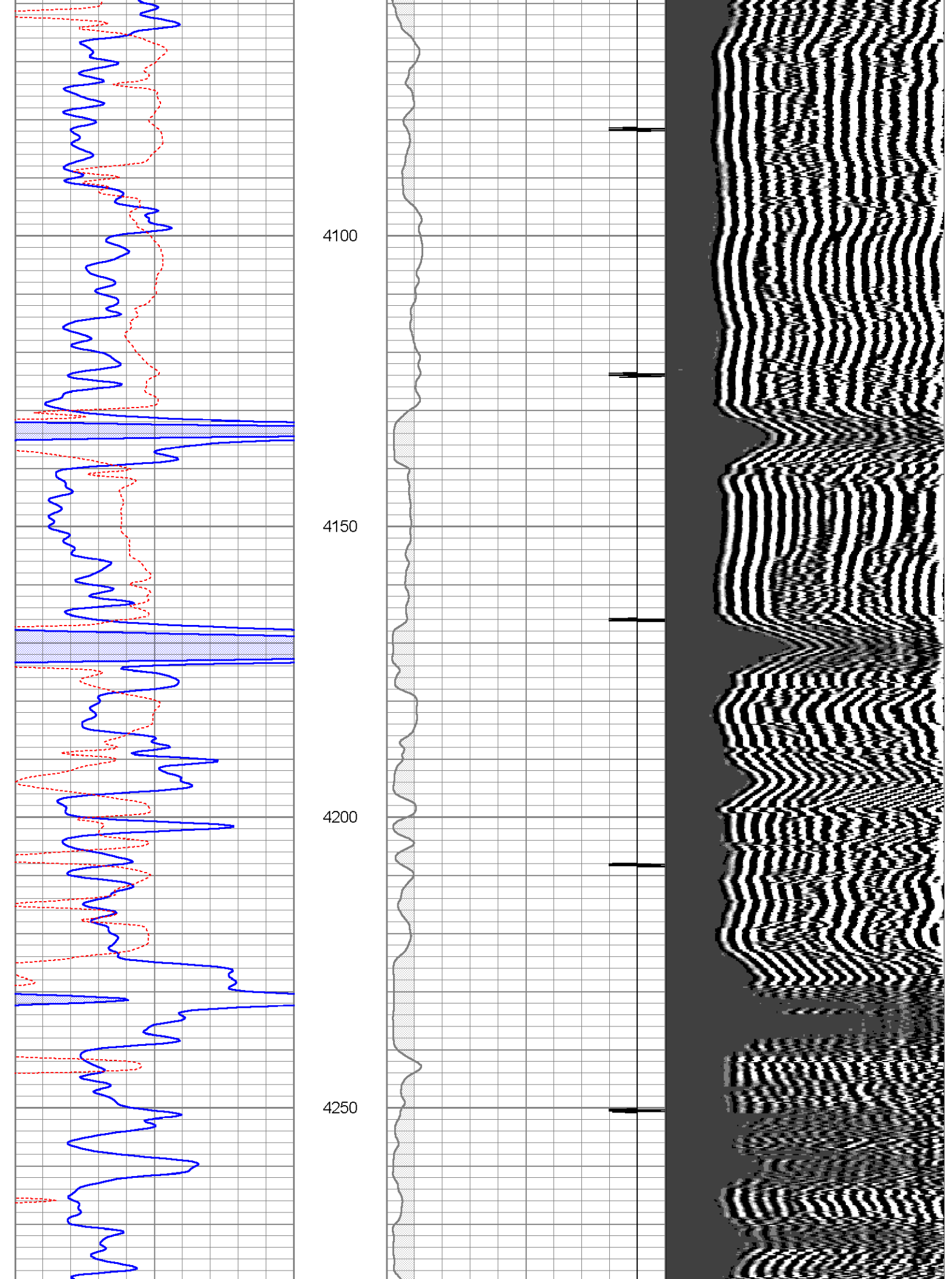


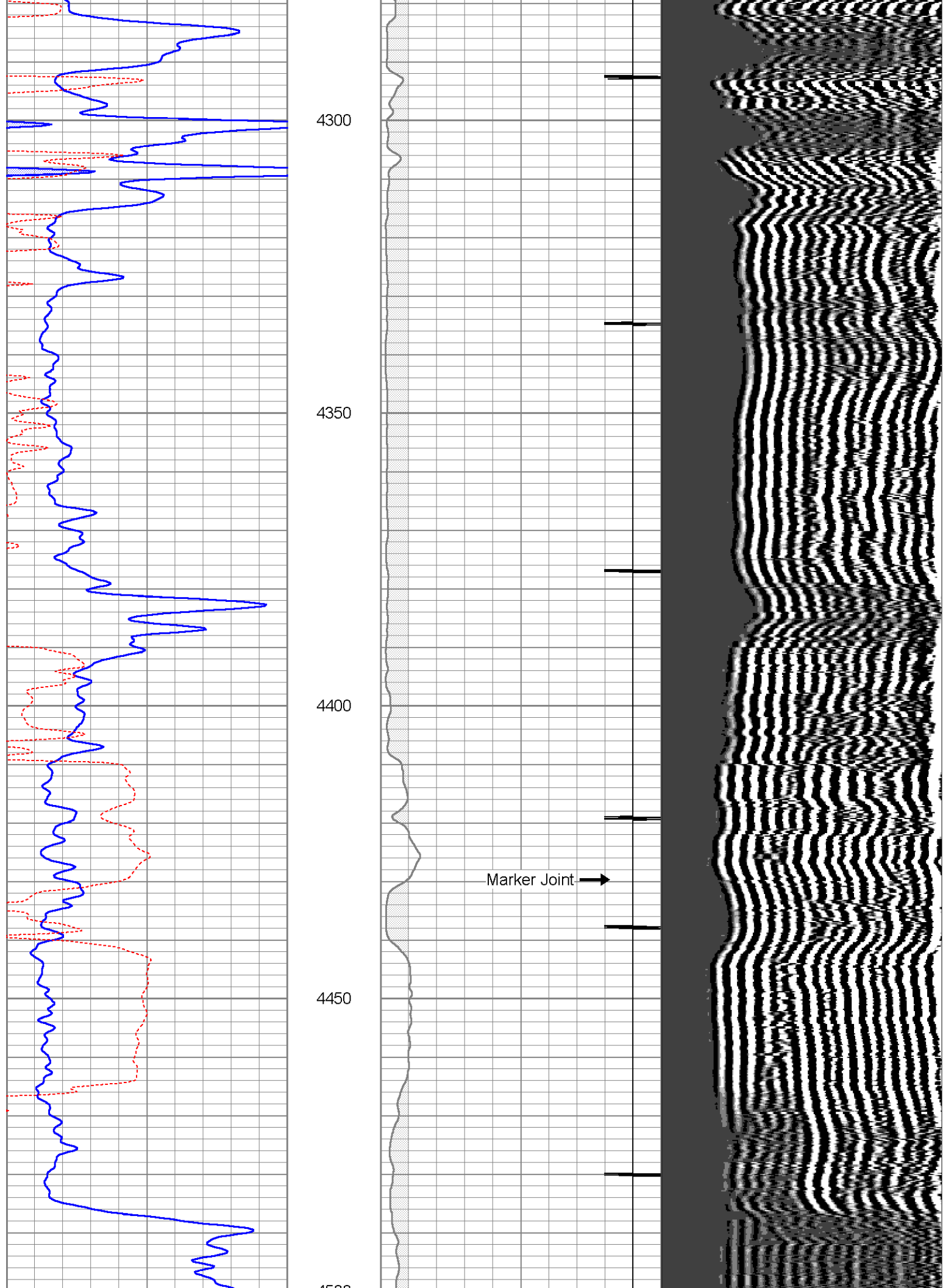


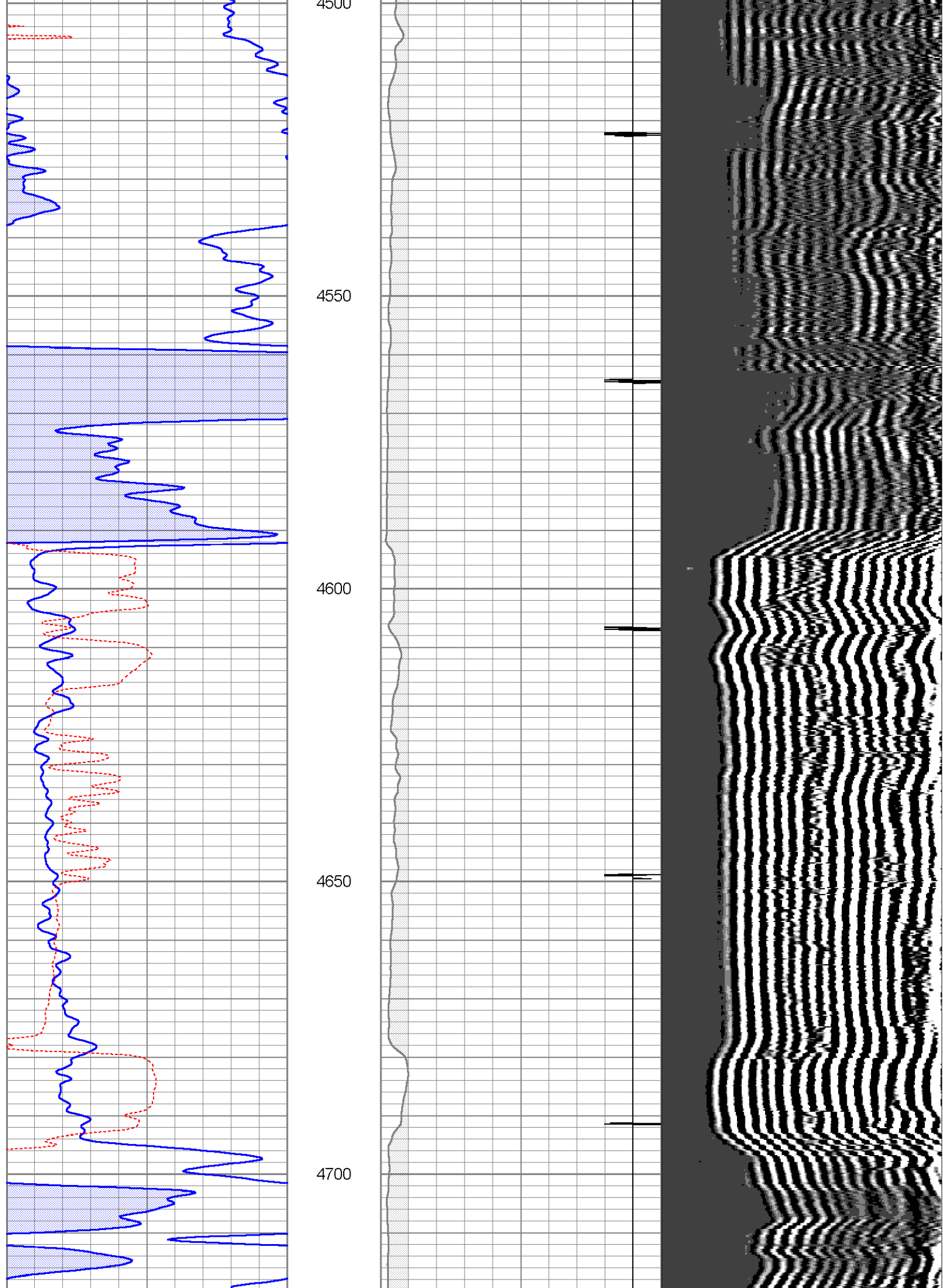


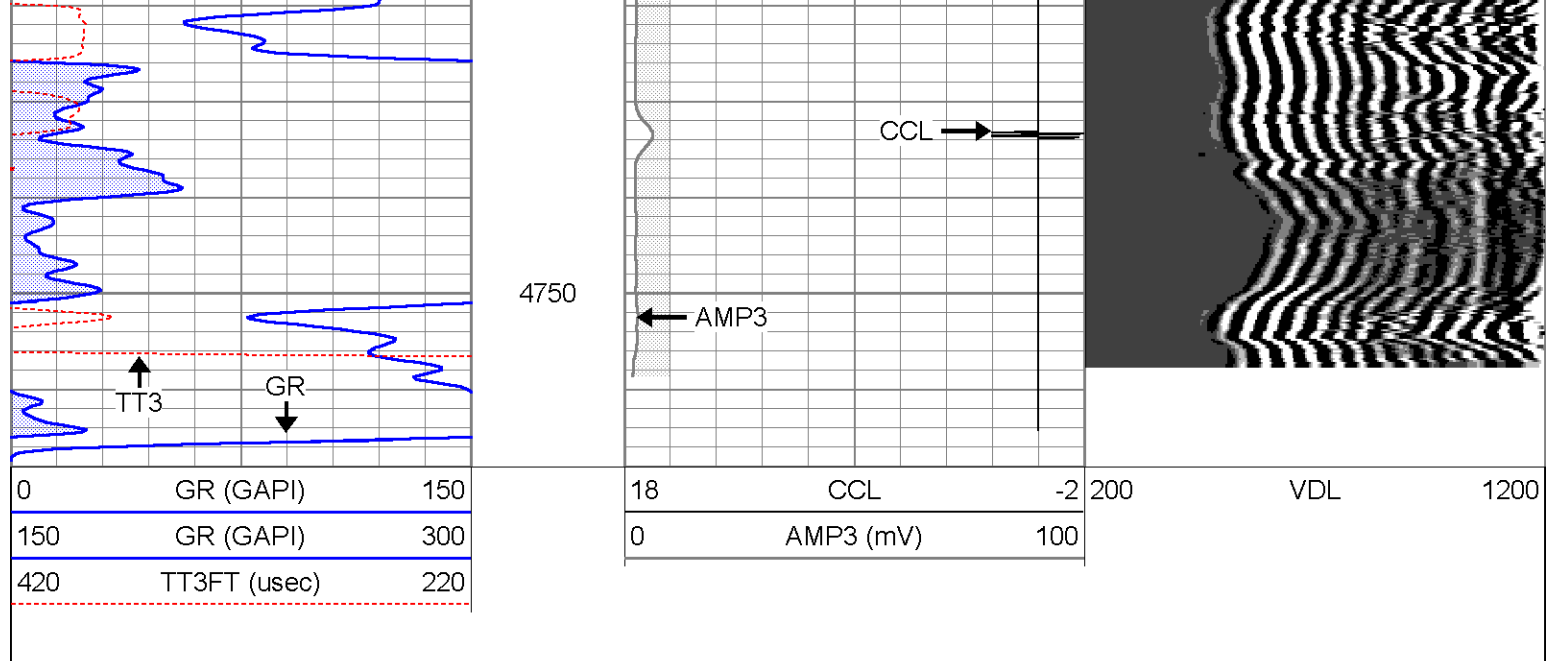






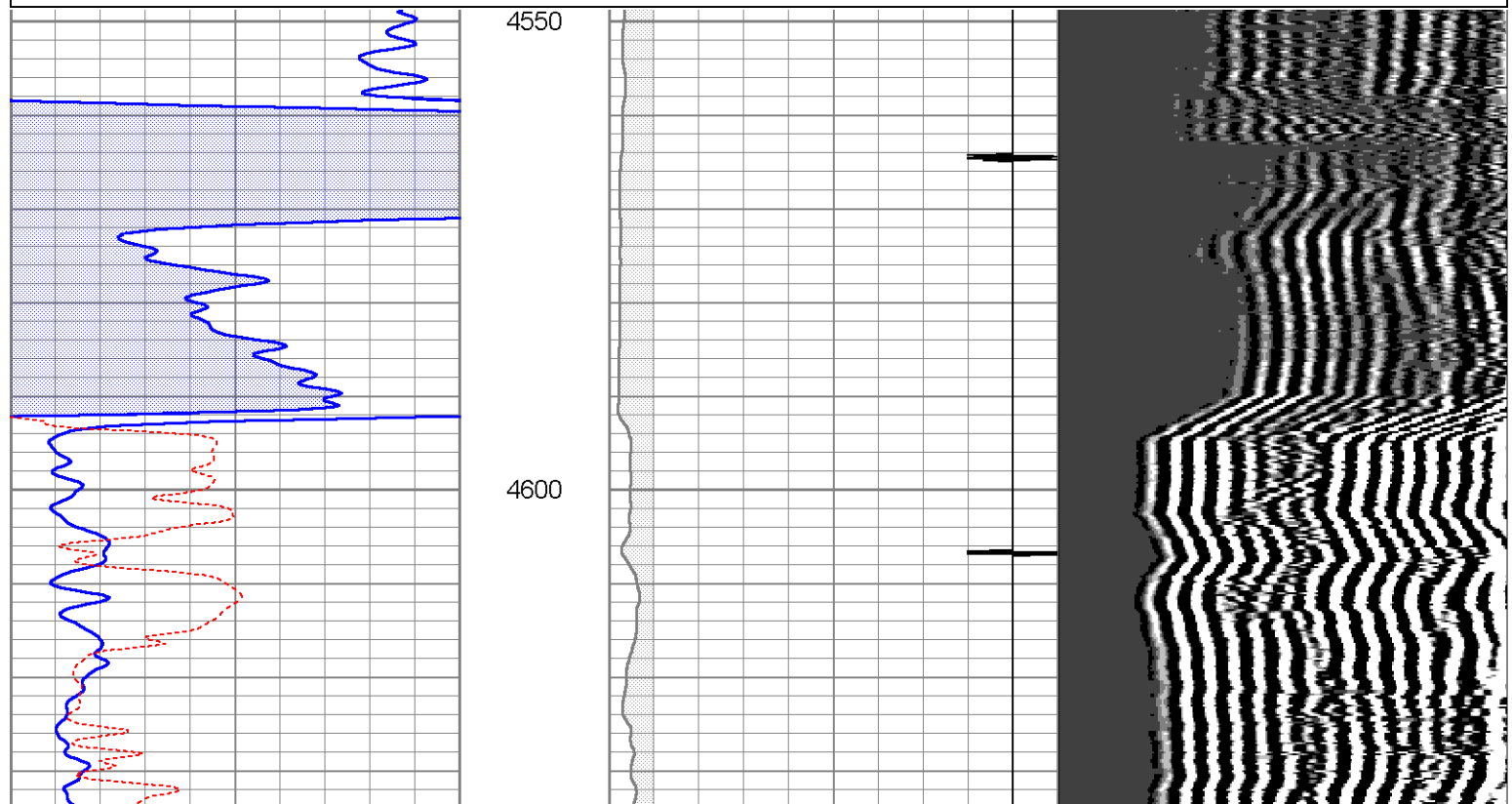
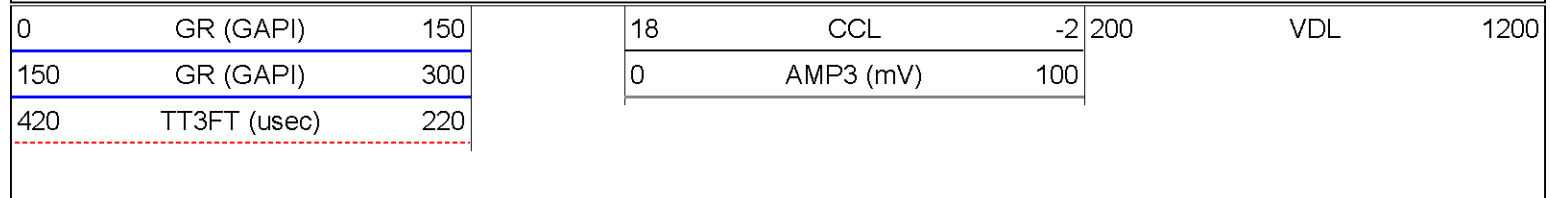


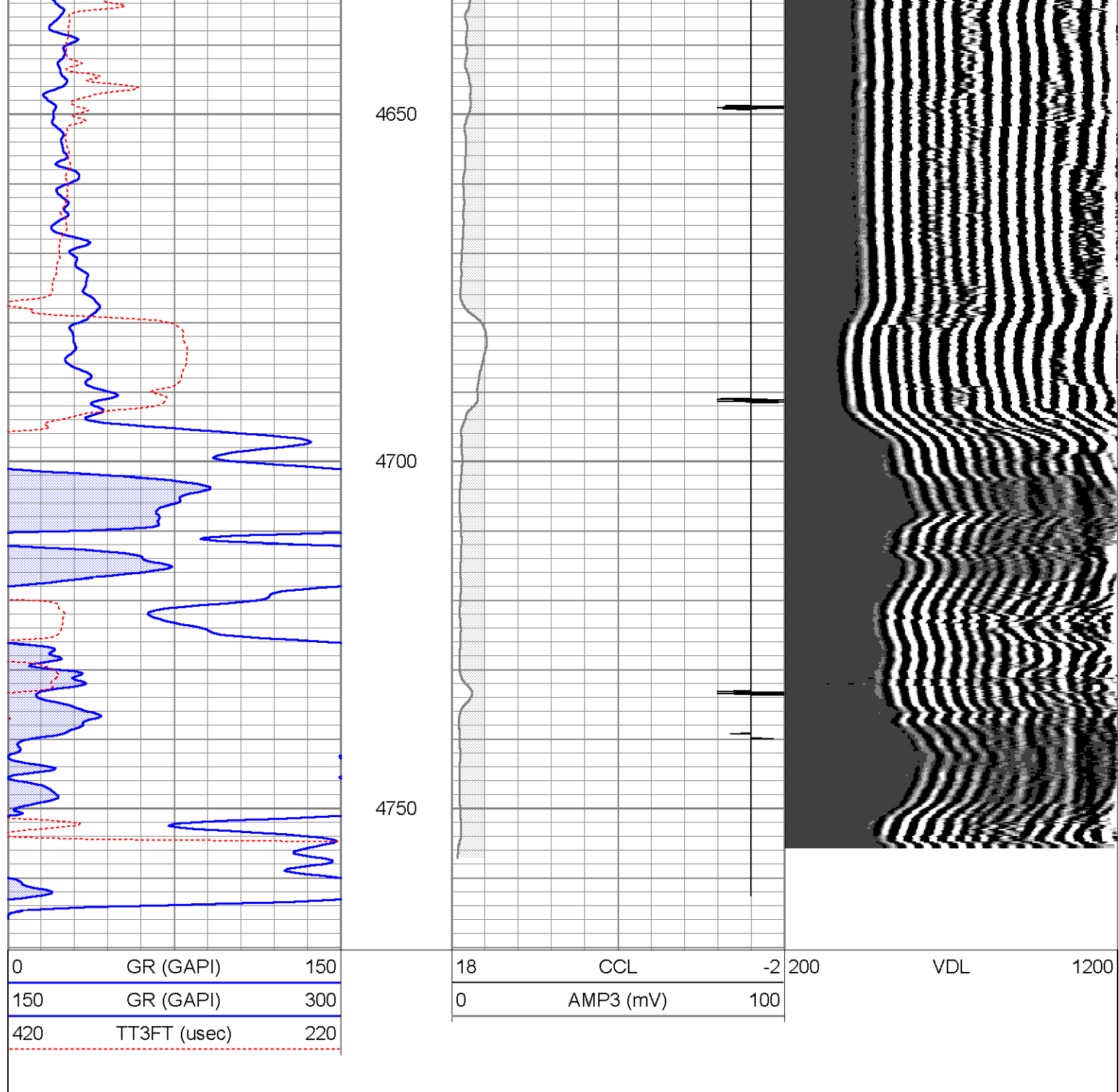




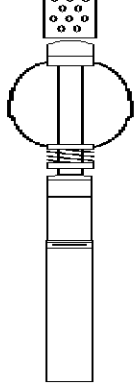
Repeat Pass

Database File: cgcunningham1cbl.db
 Dataset Pathname: pass2
 Presentation Format: cbl
 Dataset Creation: Mon Aug 05 08:29:22 2013 by Log Open-Cased 071220
 Charted by: Depth in Feet scaled 1:240





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 (080201)	8.77	2.75	92.00
WVF5	10.69		2 3/4 Bond Tool			

						
			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: cgcunningham1cbl.db: field/well/run1/pass3 Total Length: 19.14 ft Total Weight: 172.00 lb O.D. 2.75 in						

Calibration Report	
Database File:	cgcunningham1cbl.db
Dataset Pathname:	pass2
Dataset Creation:	Mon Aug 05 08:29:22 2013 by Log 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:	080201		
Tool Model:	DigitalCBL		
Performed:	Mon Apr 23 08:10:12 2012		
Depth:	2603.51	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:	0.0029541	0.00244141	V
Reading in Free Pipe:	1.68	1.21655	V
Gain:	41.693	59.2376	
Offset:	1.87683	-0.144623	