



PIONEER

Pioneer Energy Services

Sonic Cement Bond Log

API No.	Company Barracuda Operating Company		
	Well Hinnergardt A No. 2		
	Field	Ness	State Kansas
	County		
	Location	S2 NE SE SE 850' FSL & 330' FEL	
	Sec: 20	Twp: 19 S	Rge: 21 W
	Permanent Datum	Ground Level	Elevation 2235
	Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum
	Drilling Measured From	Kelly Bushing	
Run Number	One		
Date Survey	2-11-2014		
Date Cementing	2-06-2014		
Type Cementing Operation	Primary		
Depth Driller			
Depth Logger	4332		
Logged Interval	4330 to 2700		
Casing Driller	5.5 @ TD		
Float Collar -- D.V. Tool	1488	////	
Squeeze Depth			
Amount & Type Cement	////		
Amount & Type Admix	////		
Type Fluid In Hole	Water		
Fluid Level	Full		
Salinity PPM CL	////		
Weight lb/gal -- Vis.	////	////	
Approx. Logged Cement Top	2850		
Calculated Cement Top			
Max. Hole Temperature	119		
Tool No.	RBT Liberal		
Spacing Recorded	3-5		
Equipment -- Location	71	Hays	
Recorded By	Scott Clermont		
Witnessed By	Harold Bellevive		

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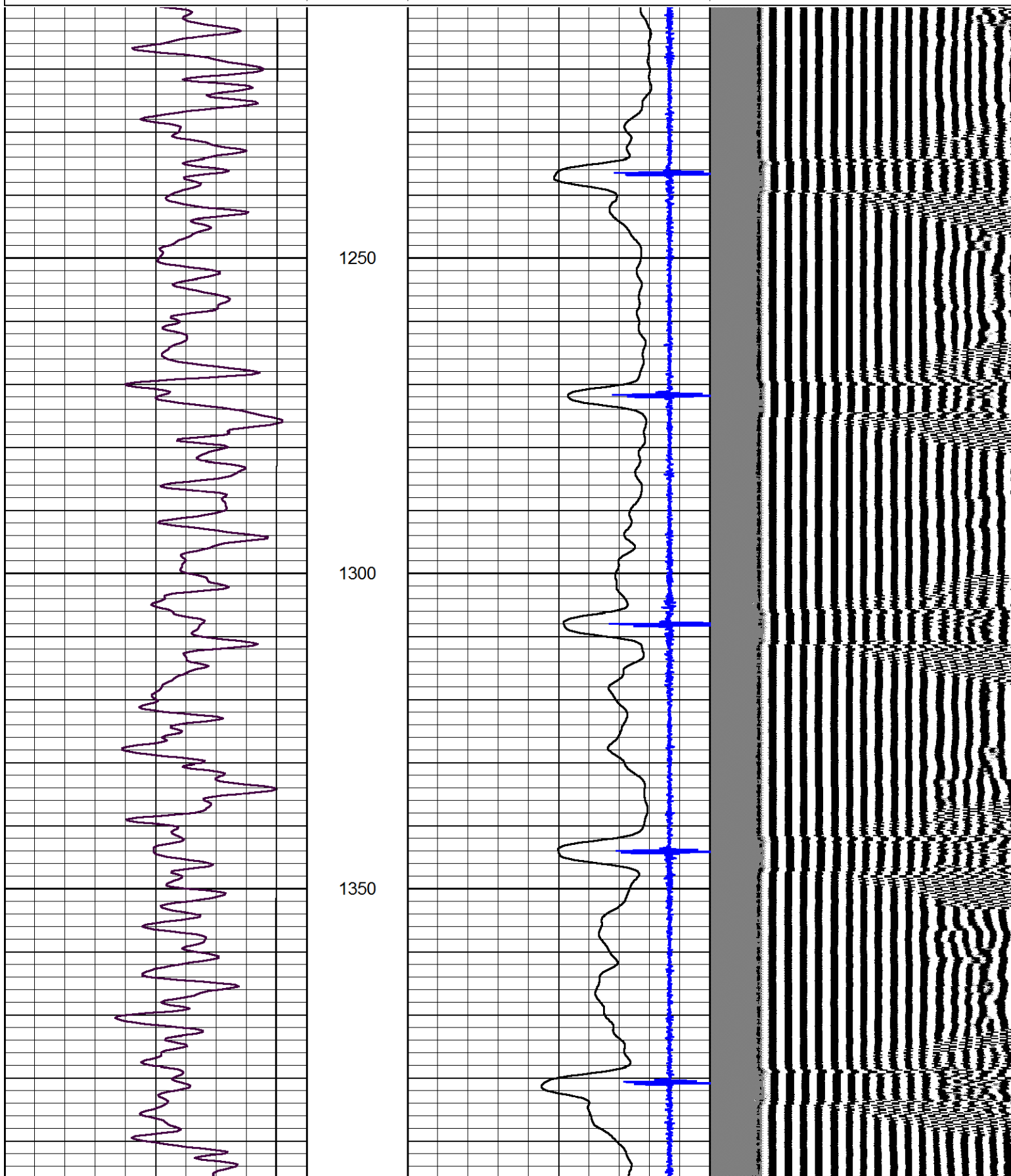
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

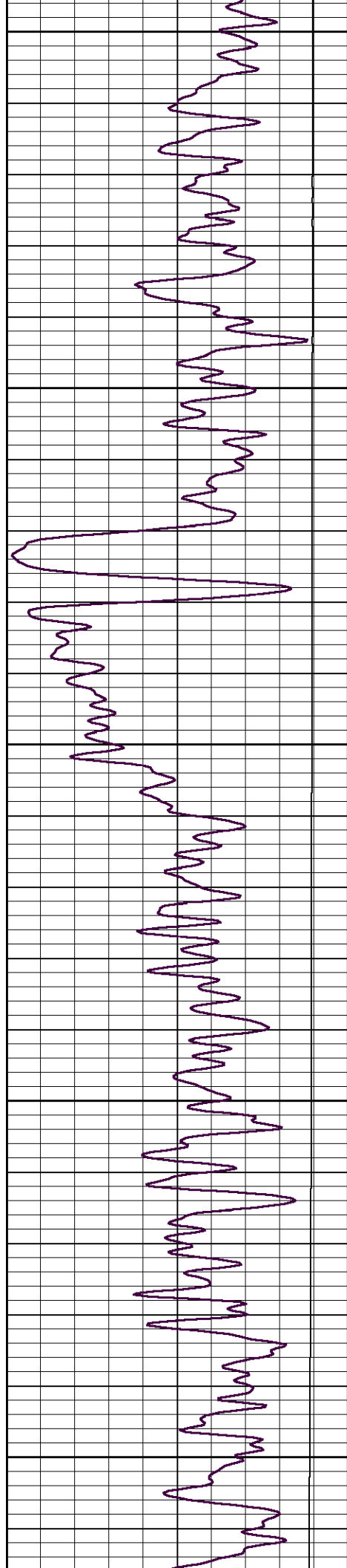
Comments

Thank you for using Pioneer Energy Services
(785) 625-3858
Bazine Kansas
5 South, 2 East,
1/4 North, West and South Into

Database File: barracuda.db
Dataset Pathname: grcbl/pass8
Presentation Format: cbldr
Dataset Creation: Tue Feb 11 16:47:59 2014 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	amp3ft	4	Casing Collars	-0.6	200	wvf5ft	1200
			(mV)	0	Amplified Amplitude (mV)	100			
			-100 10	0	Pipe Amplitude (mV)	20			





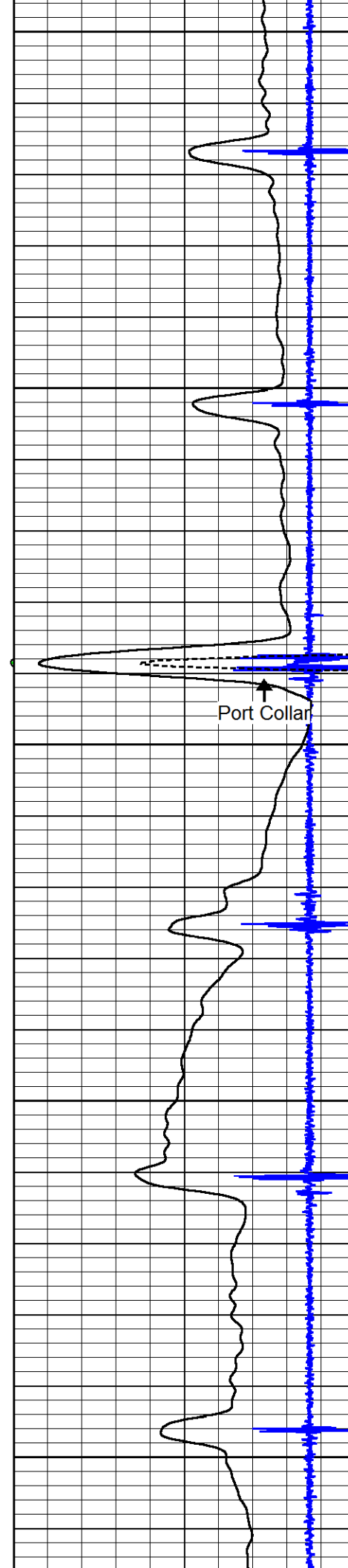
1400

1450

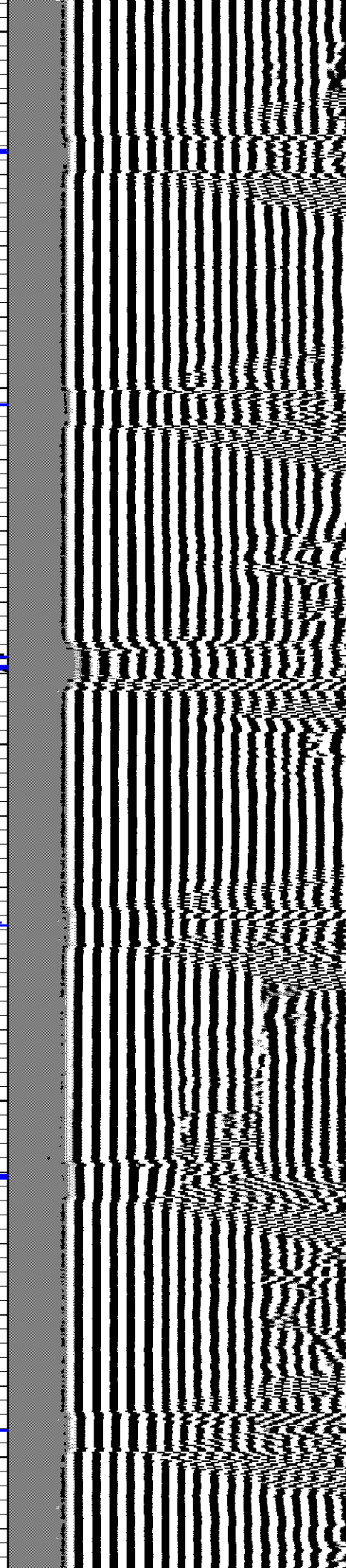
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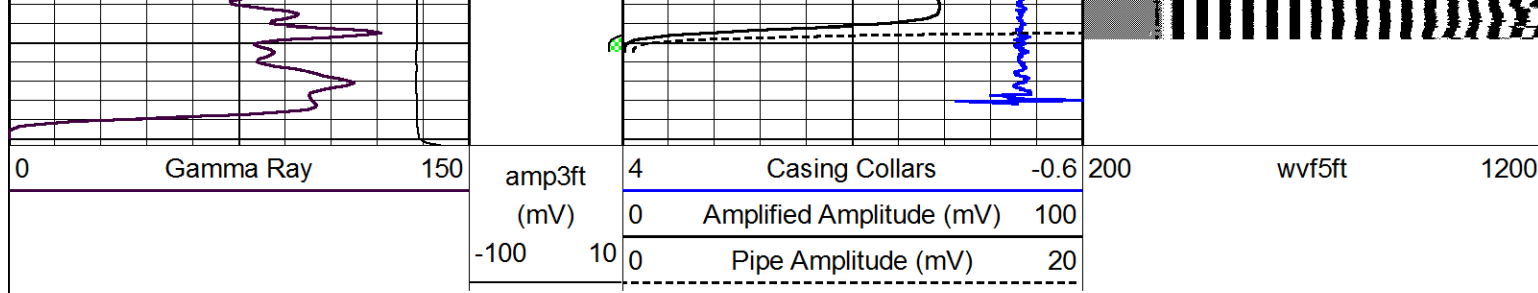
1550

1600

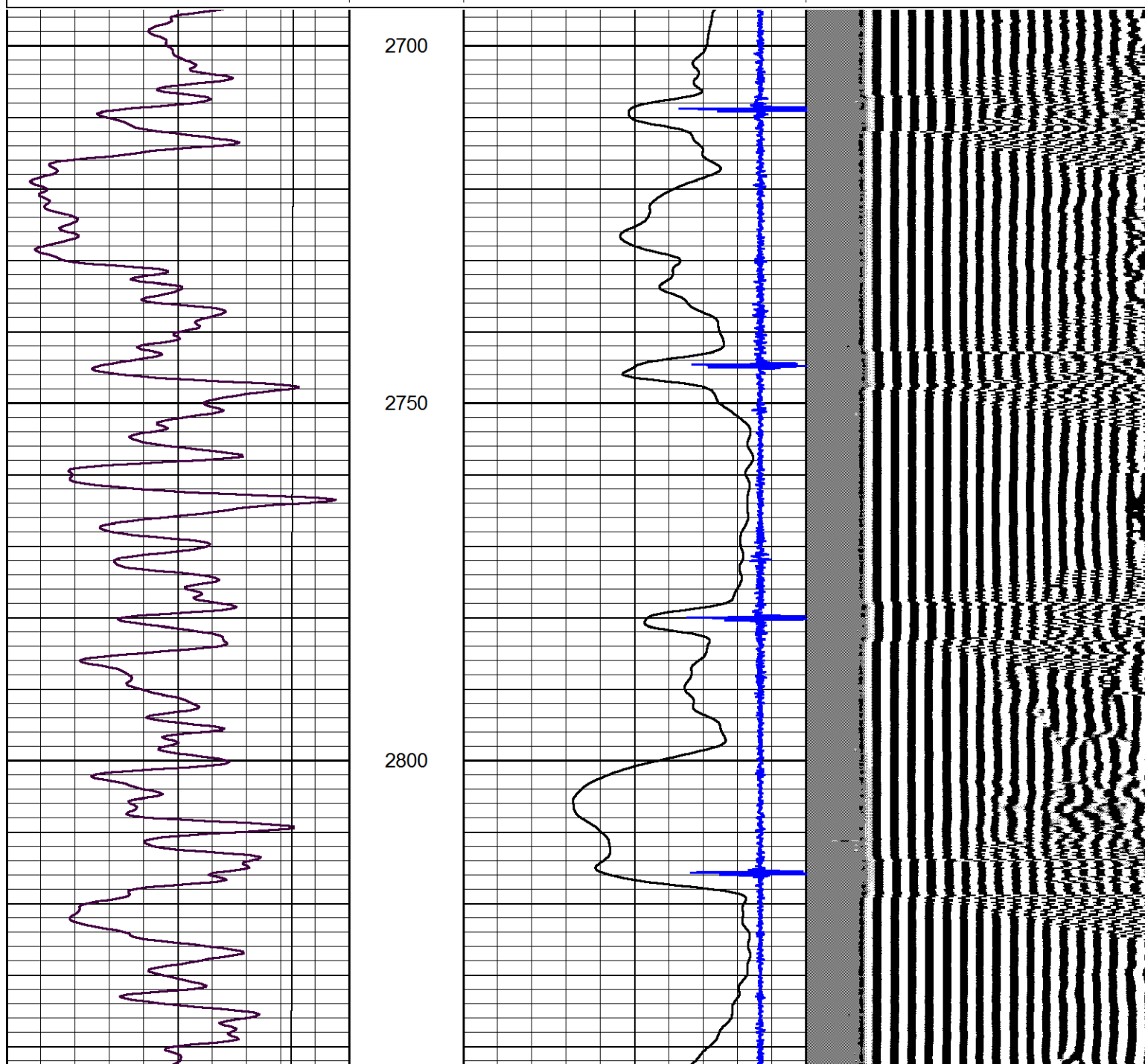
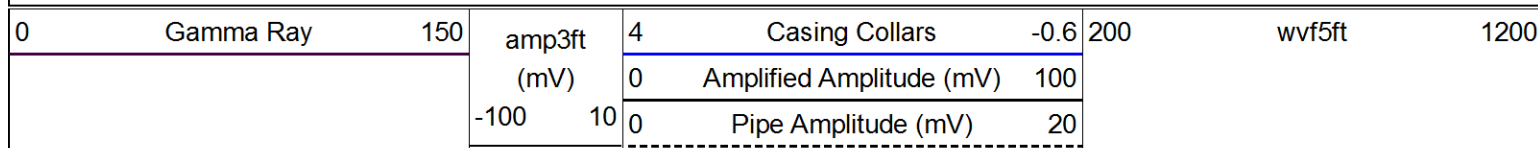


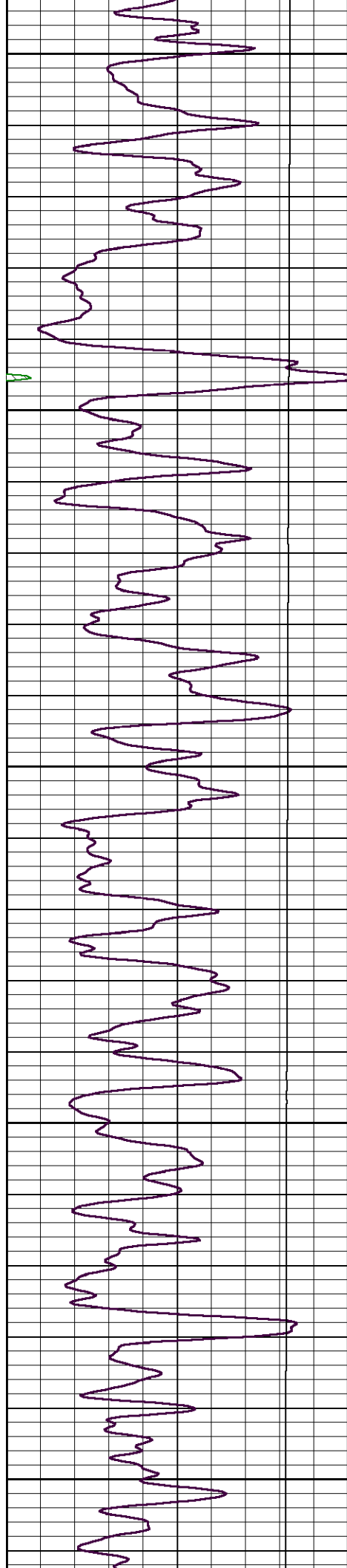
Port Collar





Database File: barracuda.db
 Dataset Pathname: grcbl/pass6
 Presentation Format: cbldr
 Dataset Creation: Tue Feb 11 16:13:30 2014 by Log SCH 111116
 Charted by: Depth in Feet scaled 1:240





2850

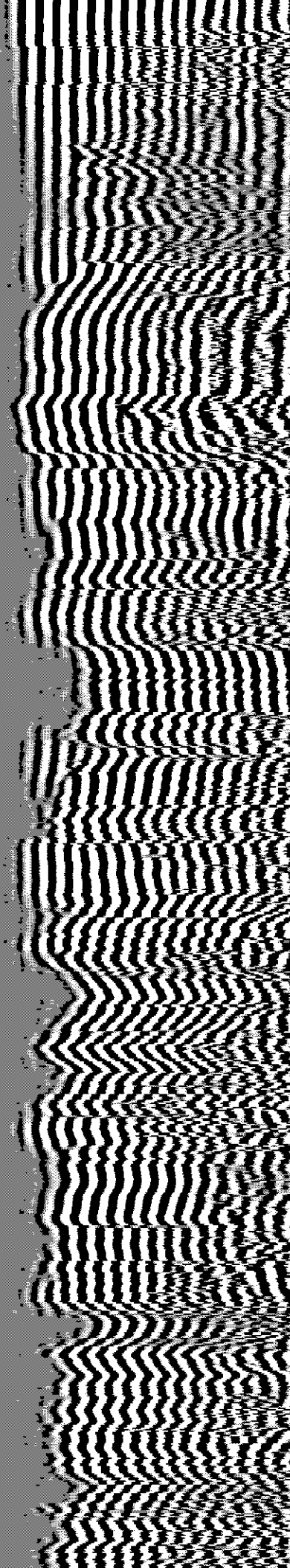
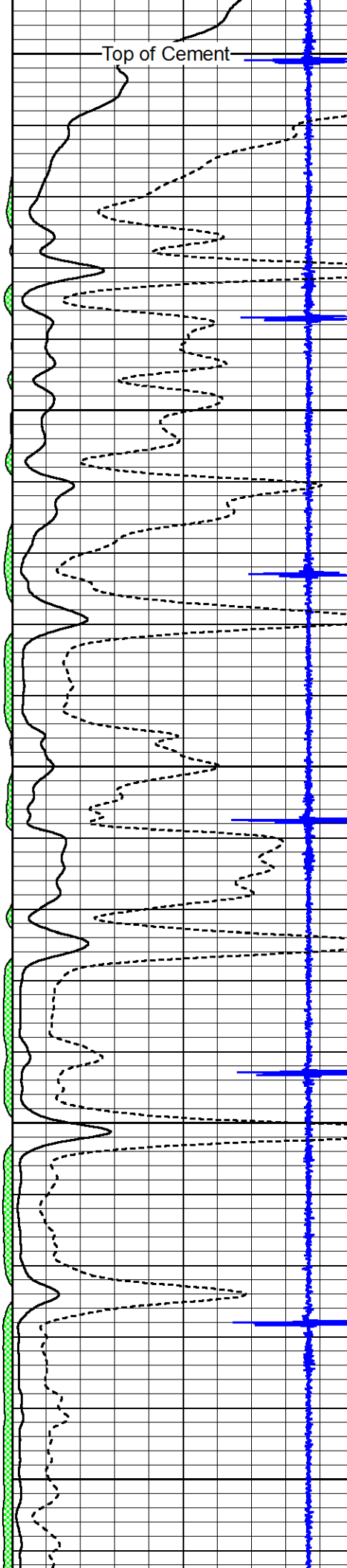
Top of Cement

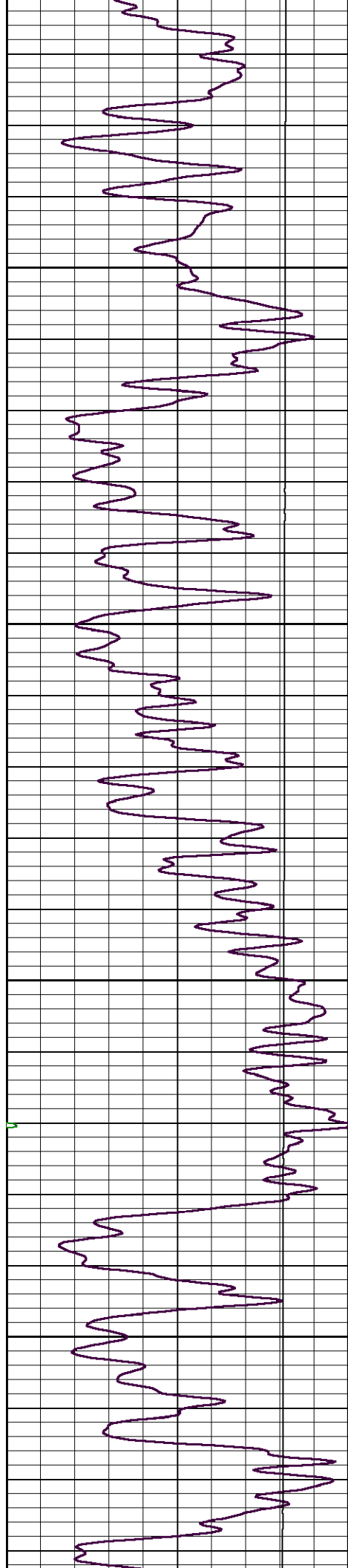
2900

2950

3000

3050



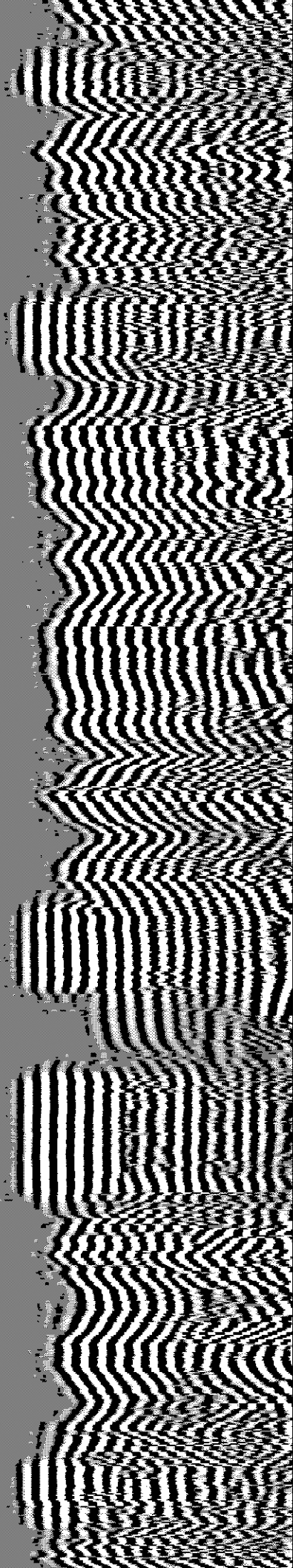
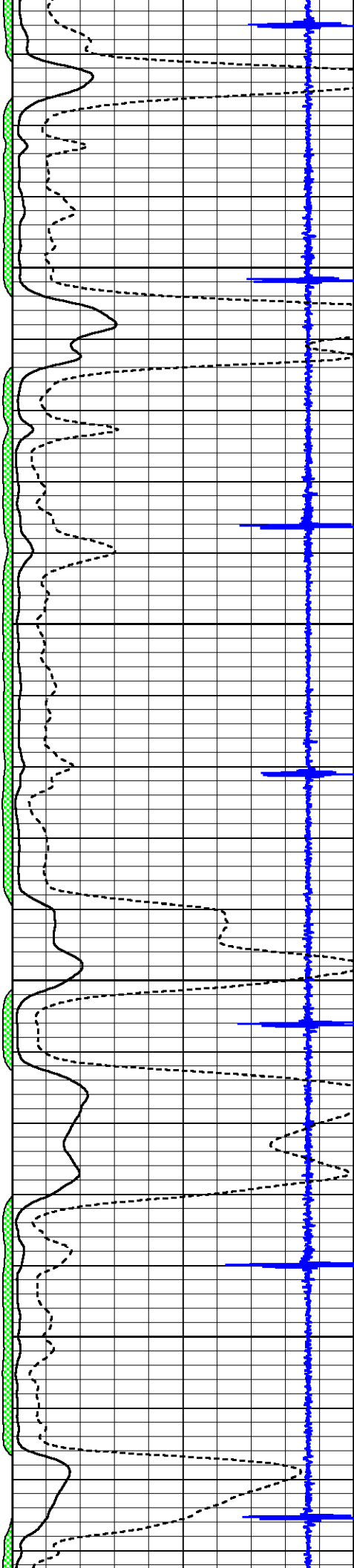


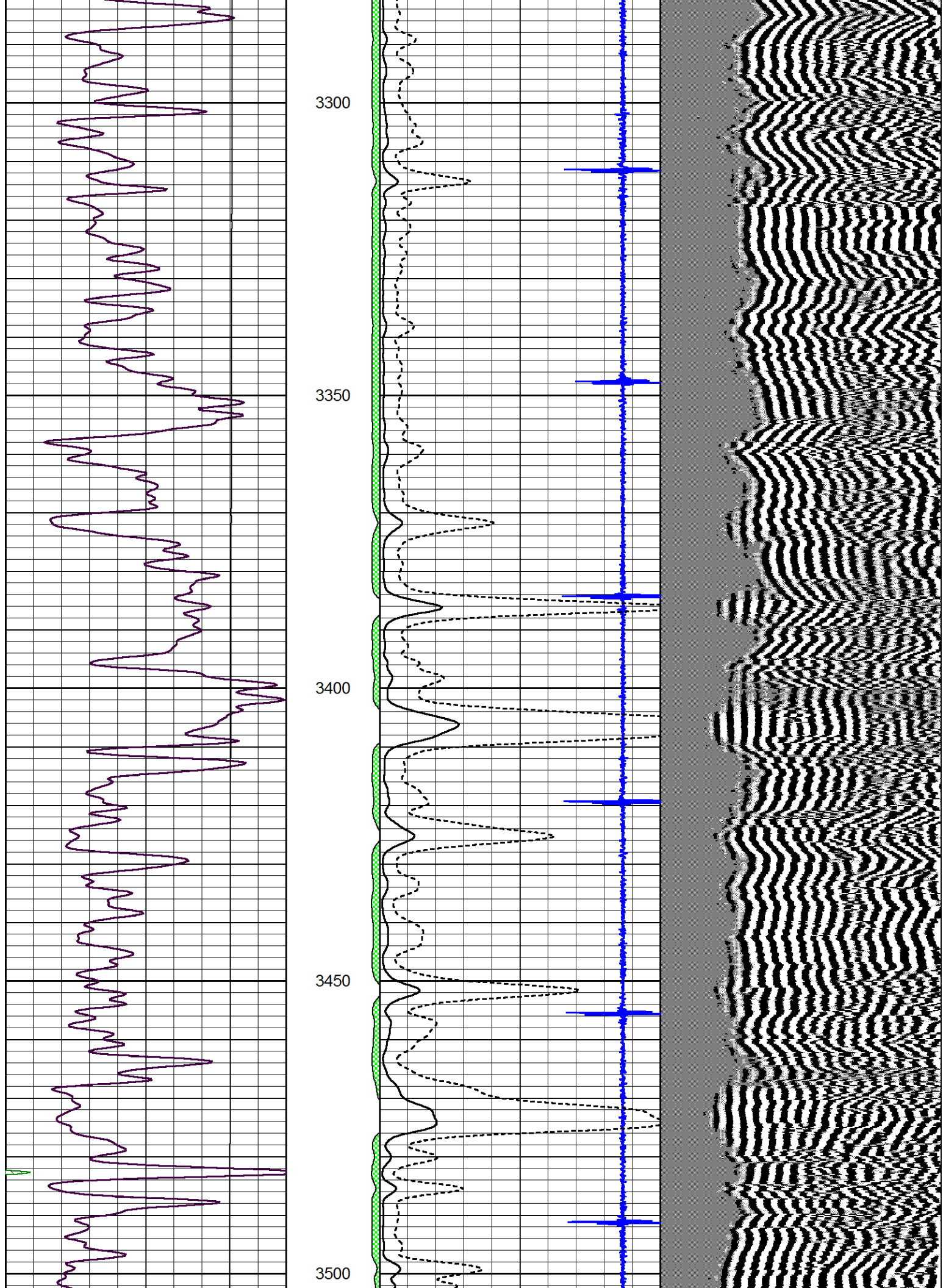
3100

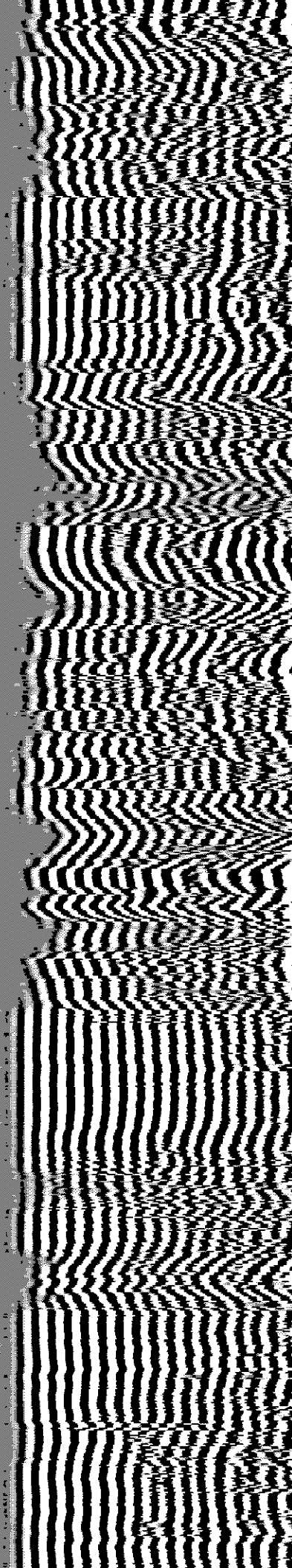
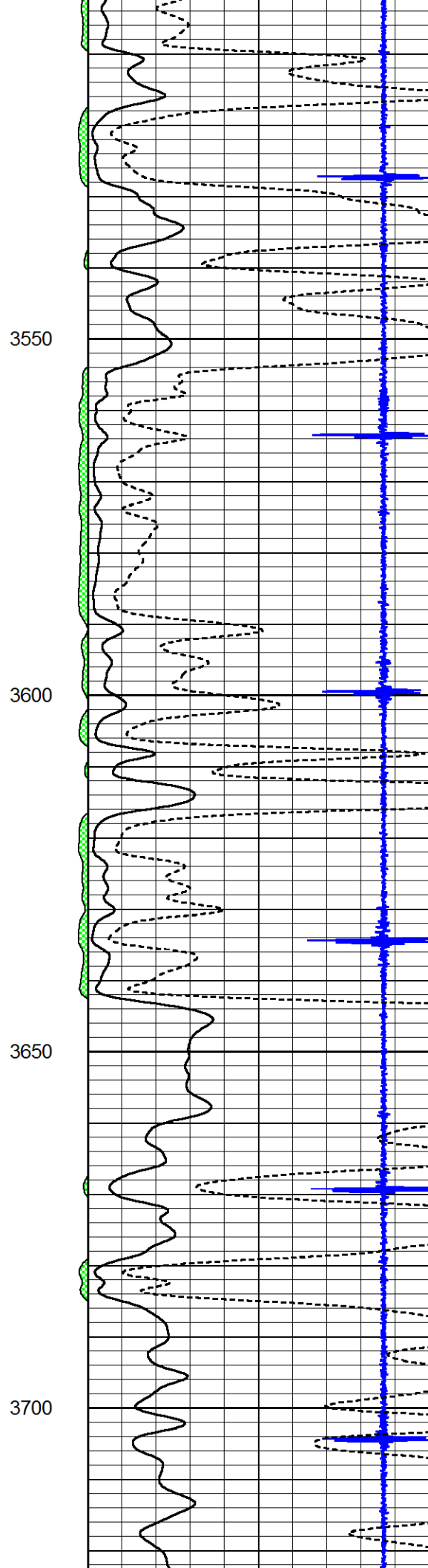
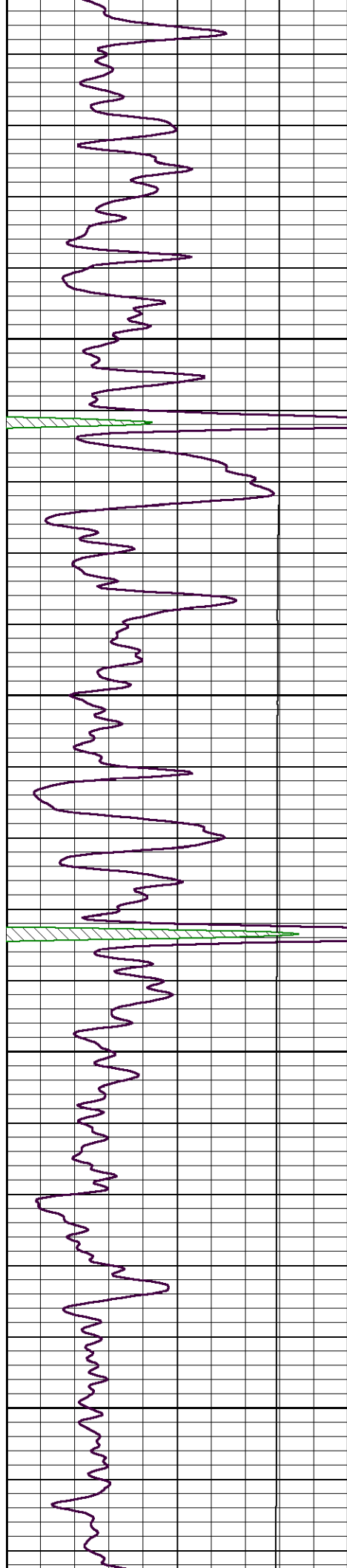
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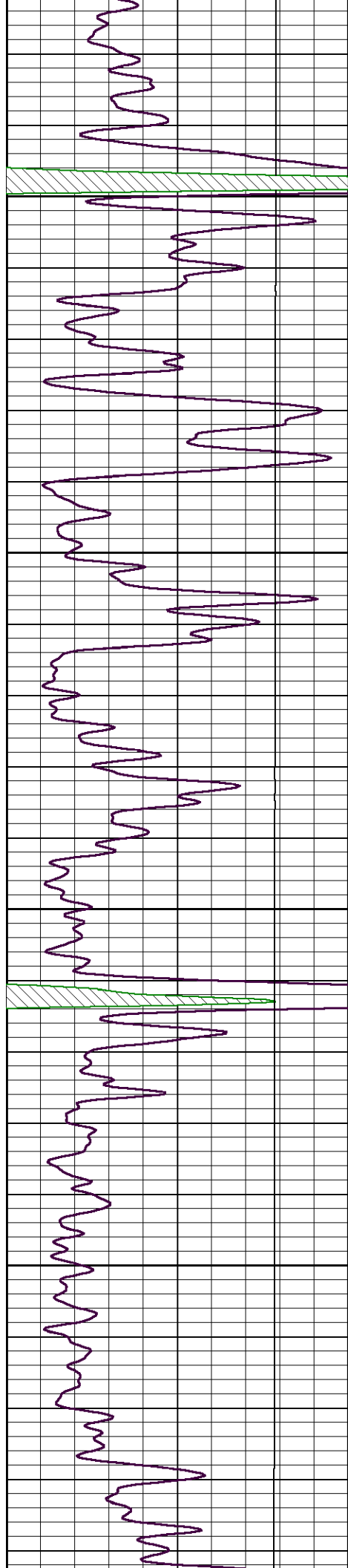
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3250







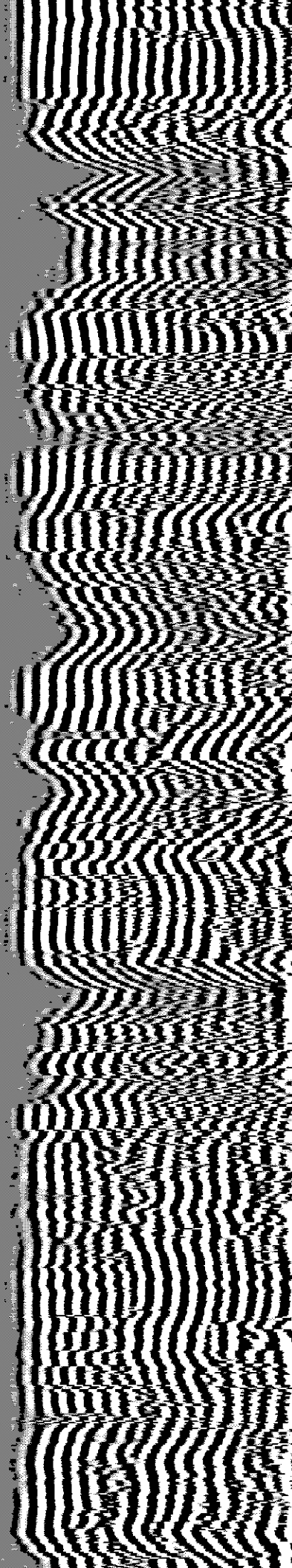
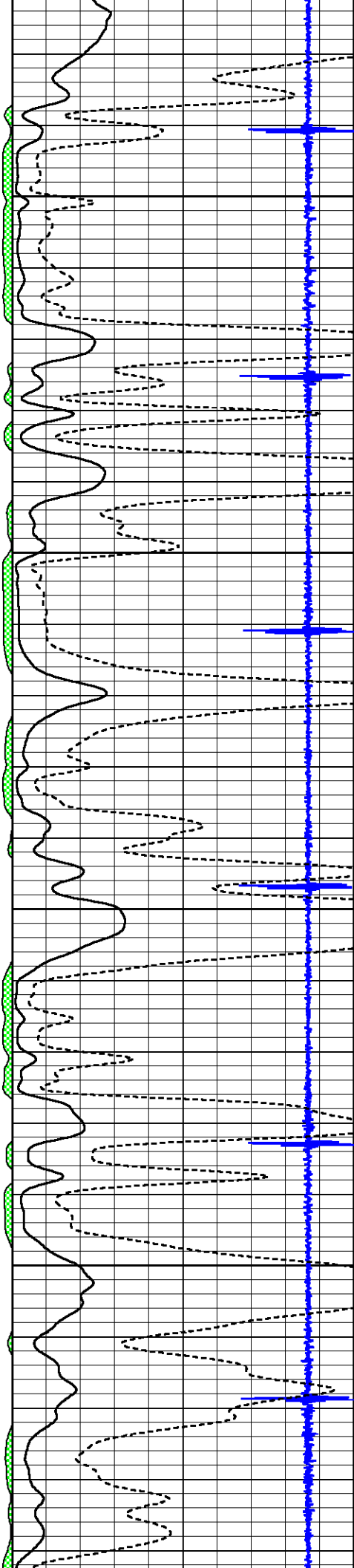


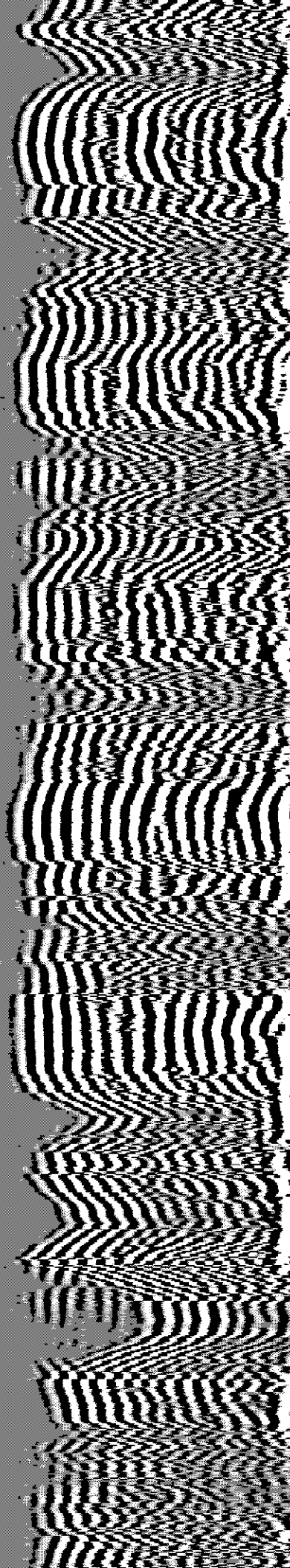
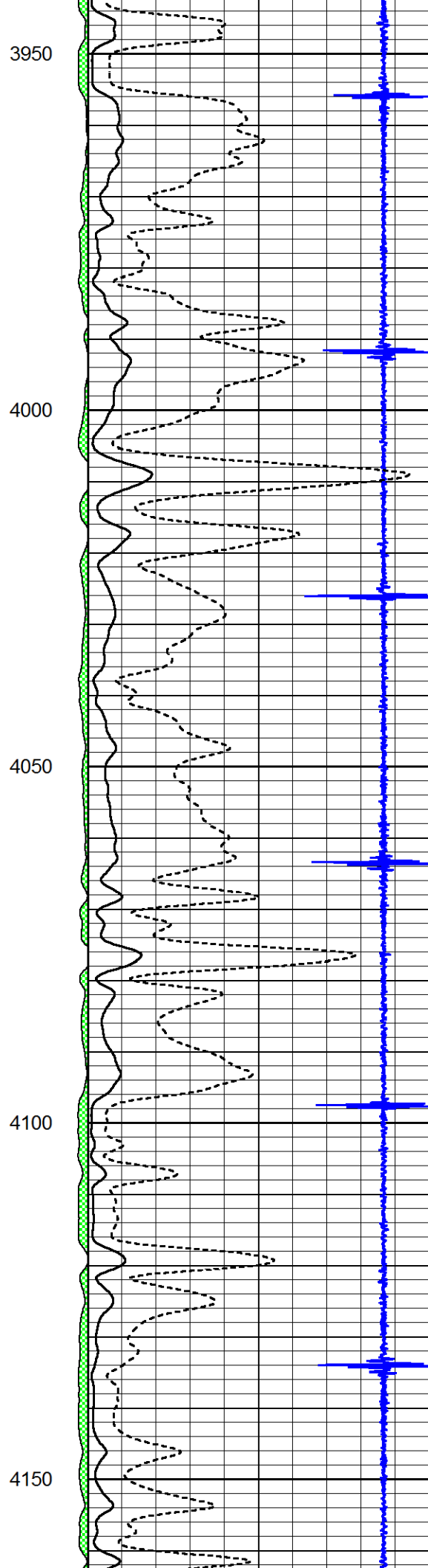
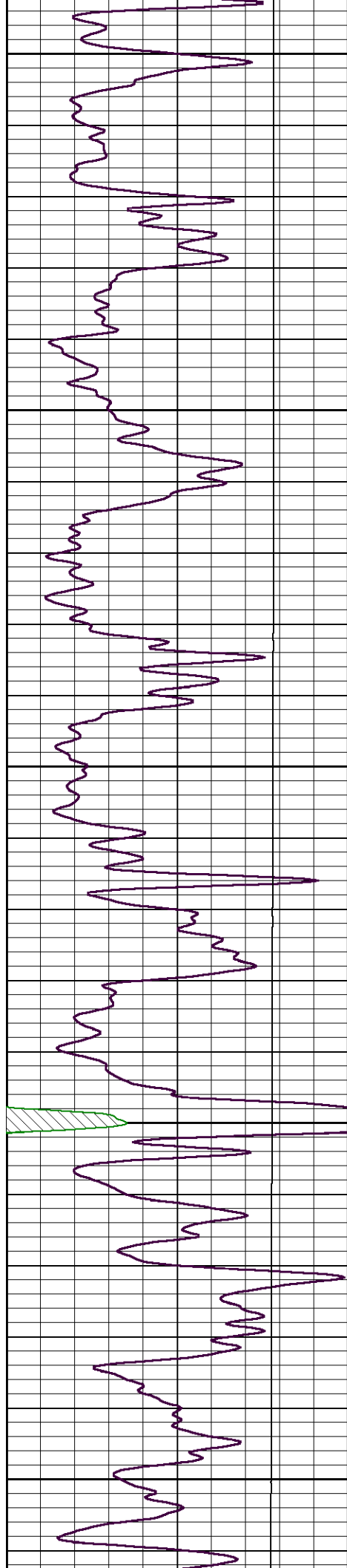
3750

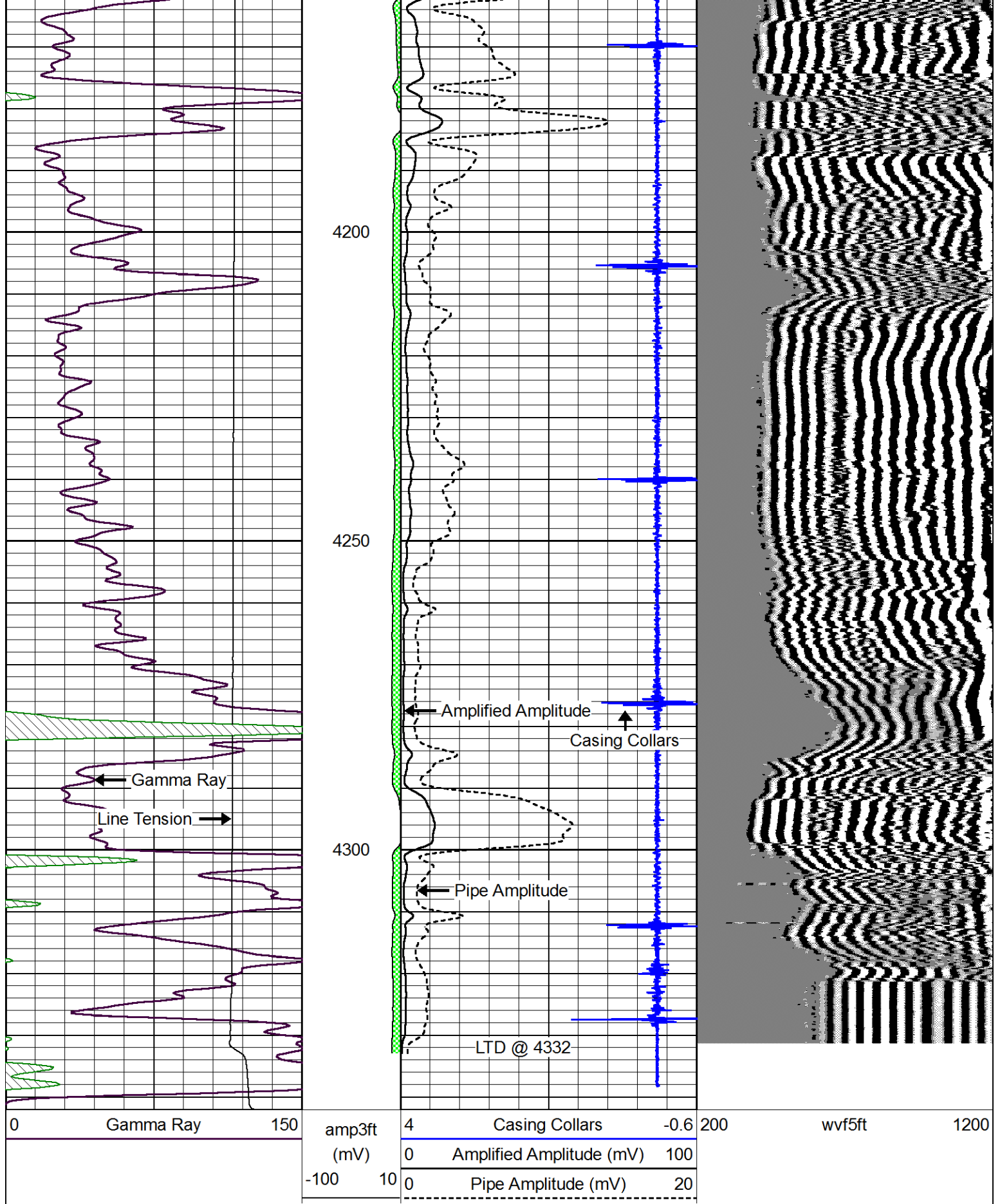
3800

3850

3900







Database File: barracuda.db
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 Presentation Format: cbldr
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 Charted by: Depth in Feet scaled 1:240

