



Sonic Cement
Bond Log

15-185-24008-00-00

API No.

Company Royal Energy, Inc.
Well Praeger #4R
Field Praeger
County Stafford
State Kansas

Location

2310' FSL & 1320' FEL

Other Services
Perforate

Sec: 36 Twp: 24S Rge: 15W

Permanent Datum Ground Level Elevation 2006
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 2016
D.F. 2014
G.L. 2006

Run Number	One	
Date Survey	2/8/2018	
Date Cementing	1/27/2018	
Type Cementing Operation	Primary	
Depth Driller	4575	
Depth Logger	4538	
Logged Interval	4537 to 2900	
Casing Driller	5.5 @ TD	
Float Collar -- D.V. Tool	////	////
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	3034	
Calculated Cement Top		
Max. Hole Temperature	////	
Tool No.	DIG02	
Spacing Recorded	3-5	
Equipment -- Location	02 Pratt	
Recorded By	N. Schmeidler	
Witnessed By	Jeff Burk	

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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 Excel Wireline (620) 388-5676

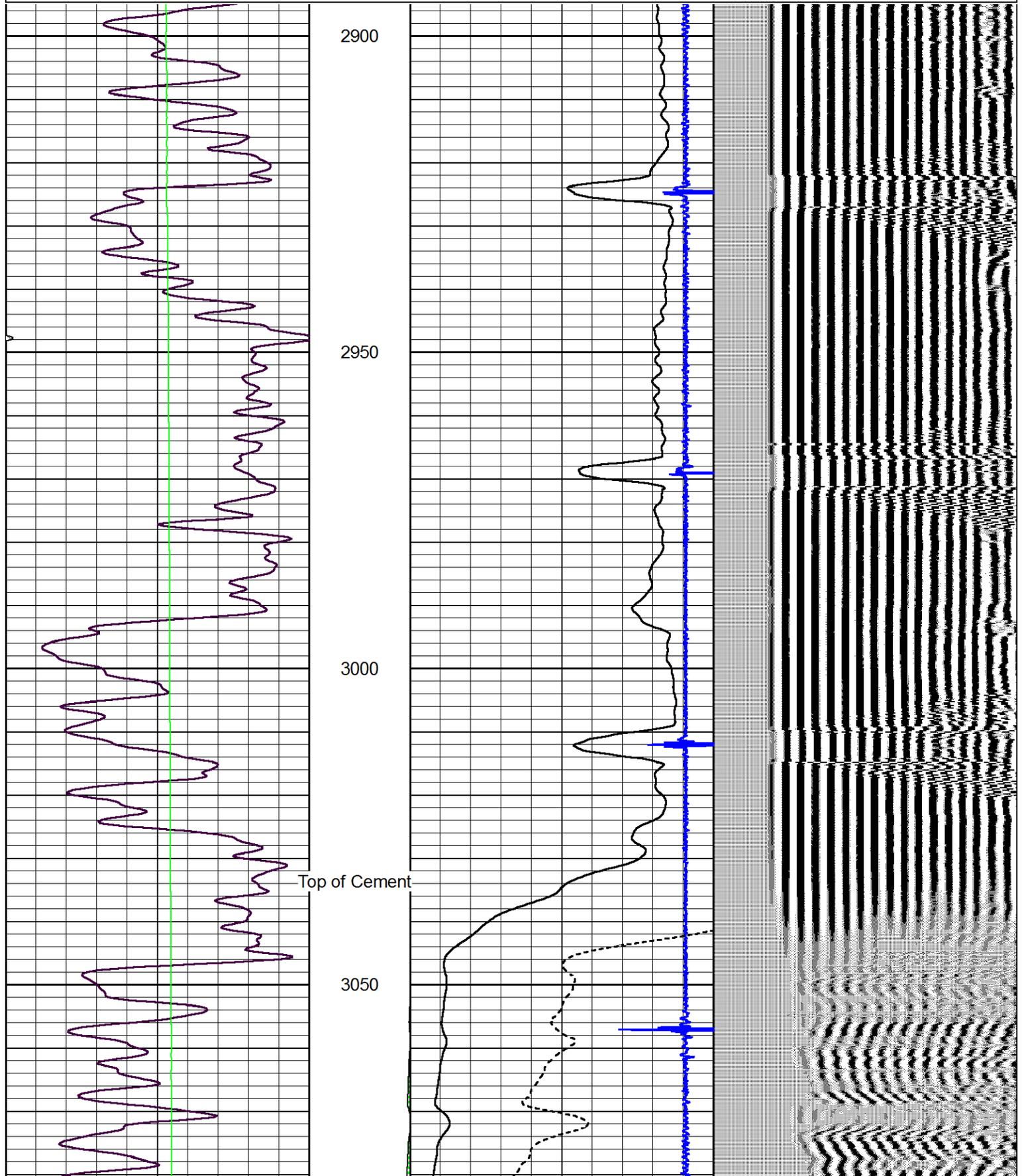
Macksville
1 1/2 E to 90th
2 3/4 S
W into

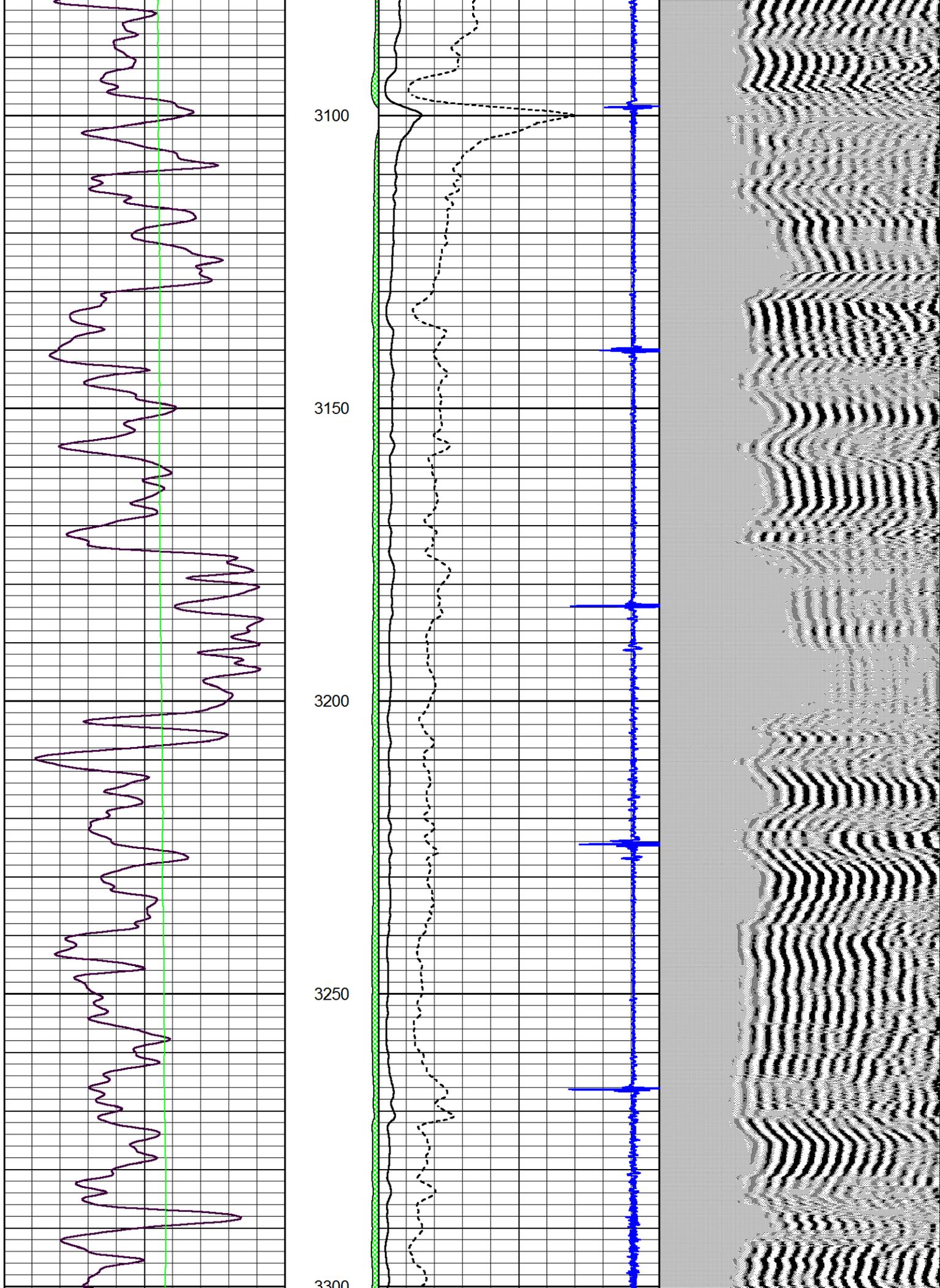


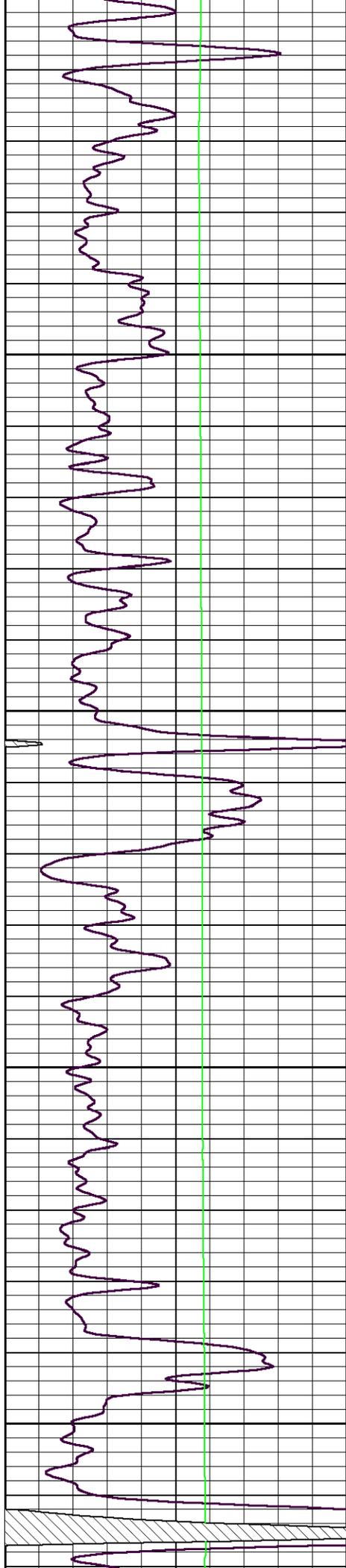
Main Pass

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 Presentation Format excel
 Dataset Creation Thu Feb 08 09:11:29 2018
 Charted by Depth in Feet scaled 1:240

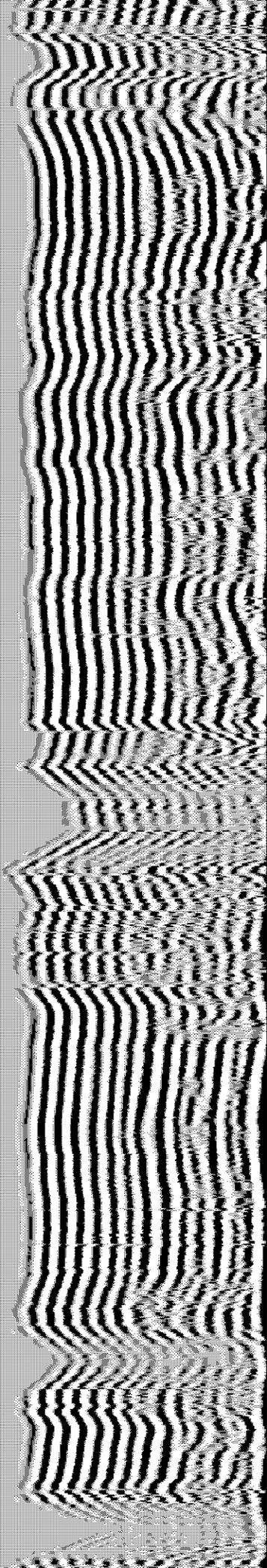
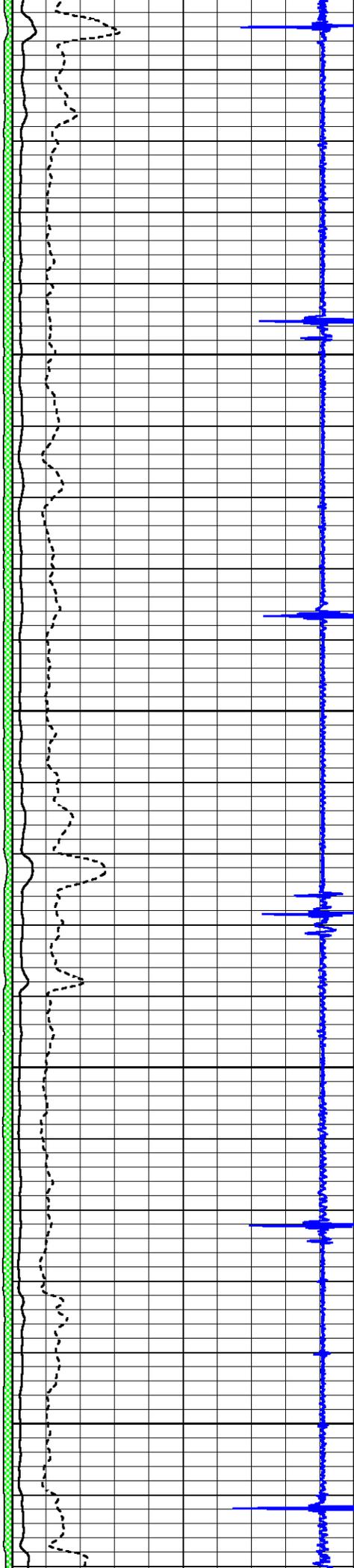
0	Gamma Ray (GAPI)	150	amp3ft	3	Casing Collars	-0.3	200	Variable Density	1200
0	LTEN (lb)	2000	(mV)	Amplitude					
			-100 10	Amplified Amplitude (mV)					

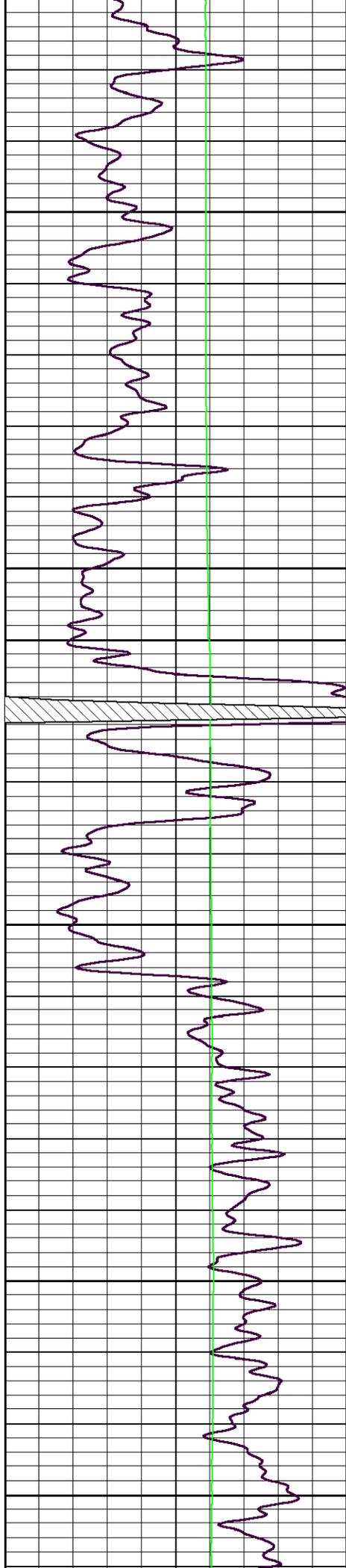






3300
3350
3400
3450
3500



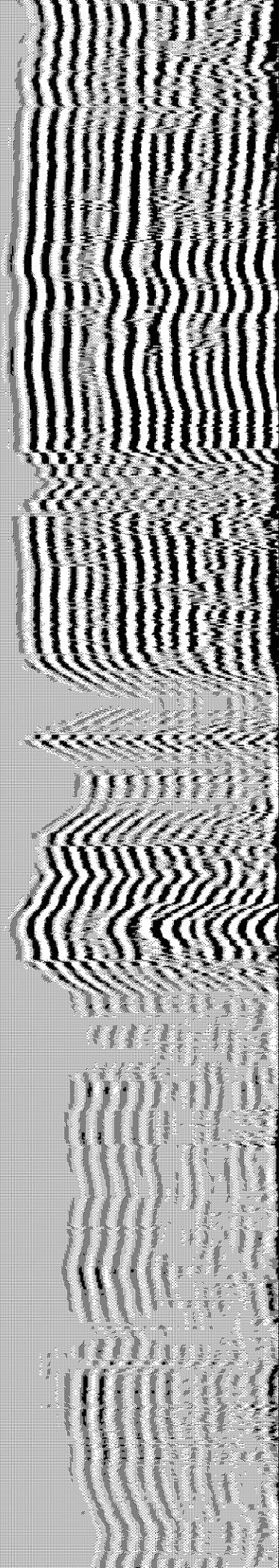
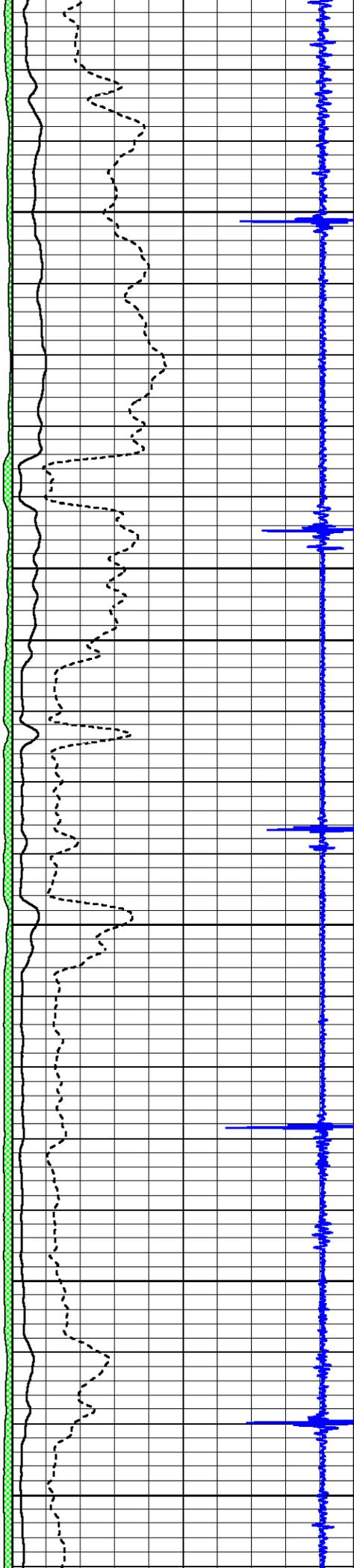


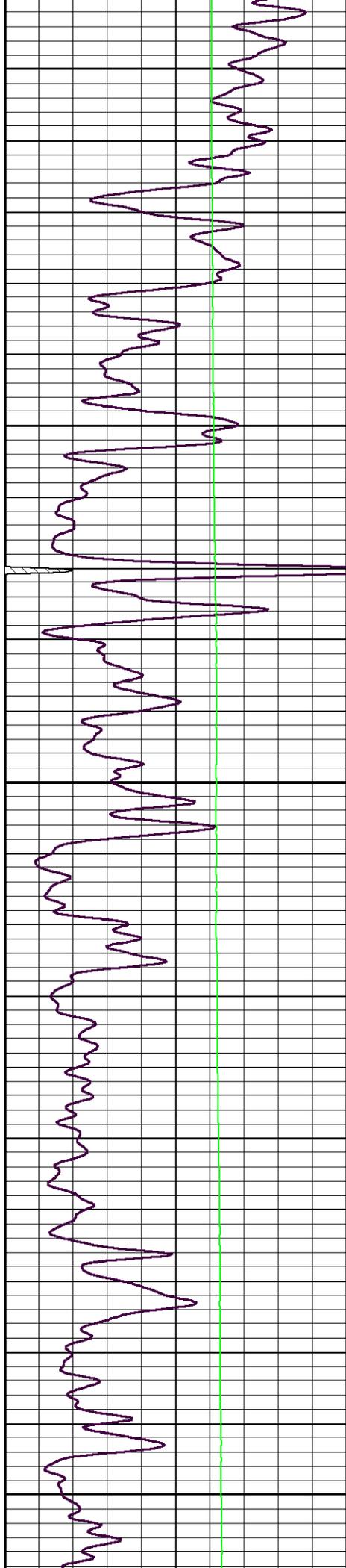
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3600

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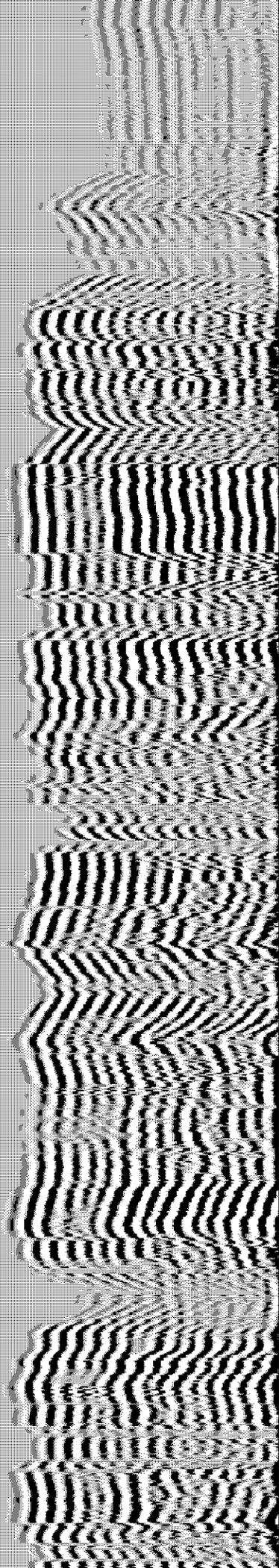
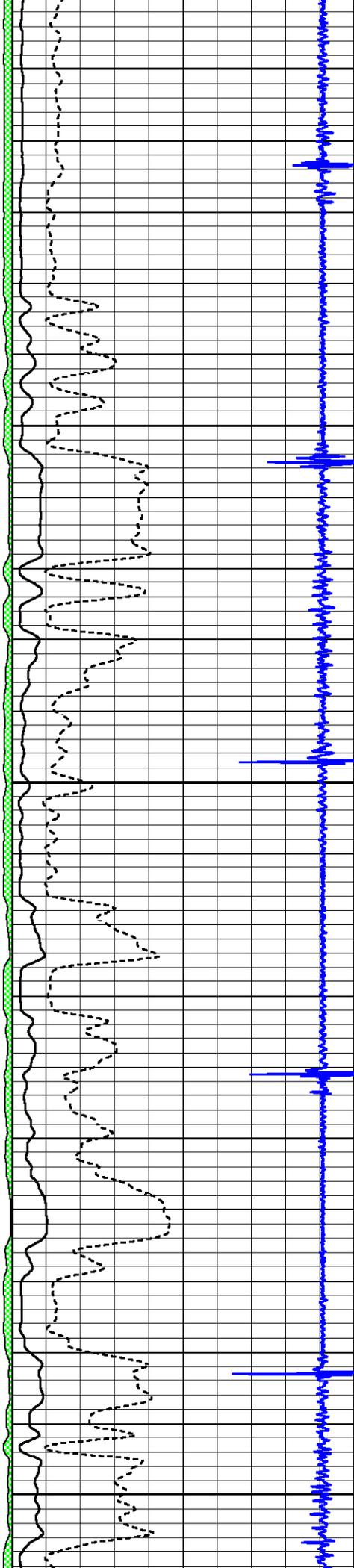
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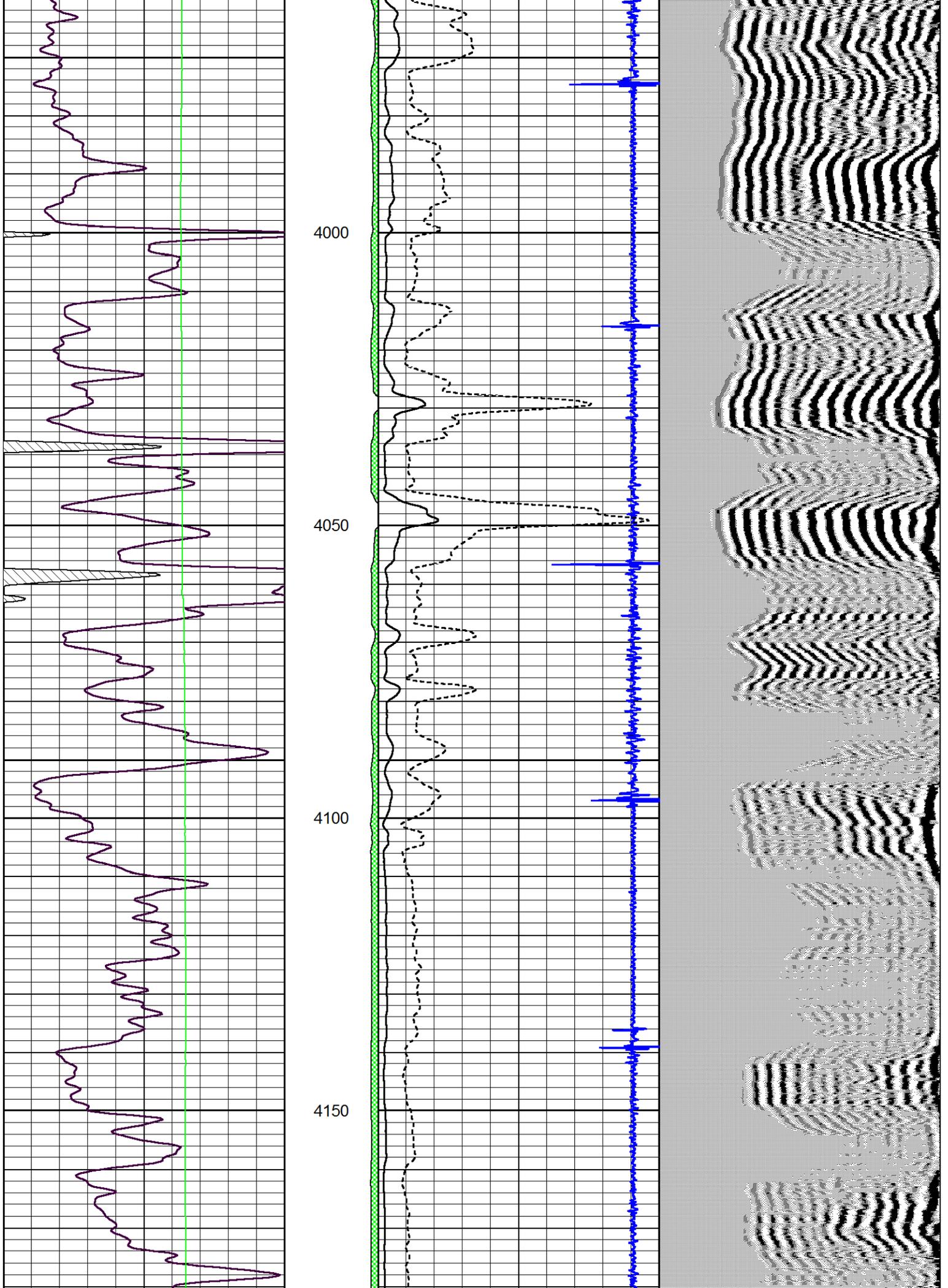
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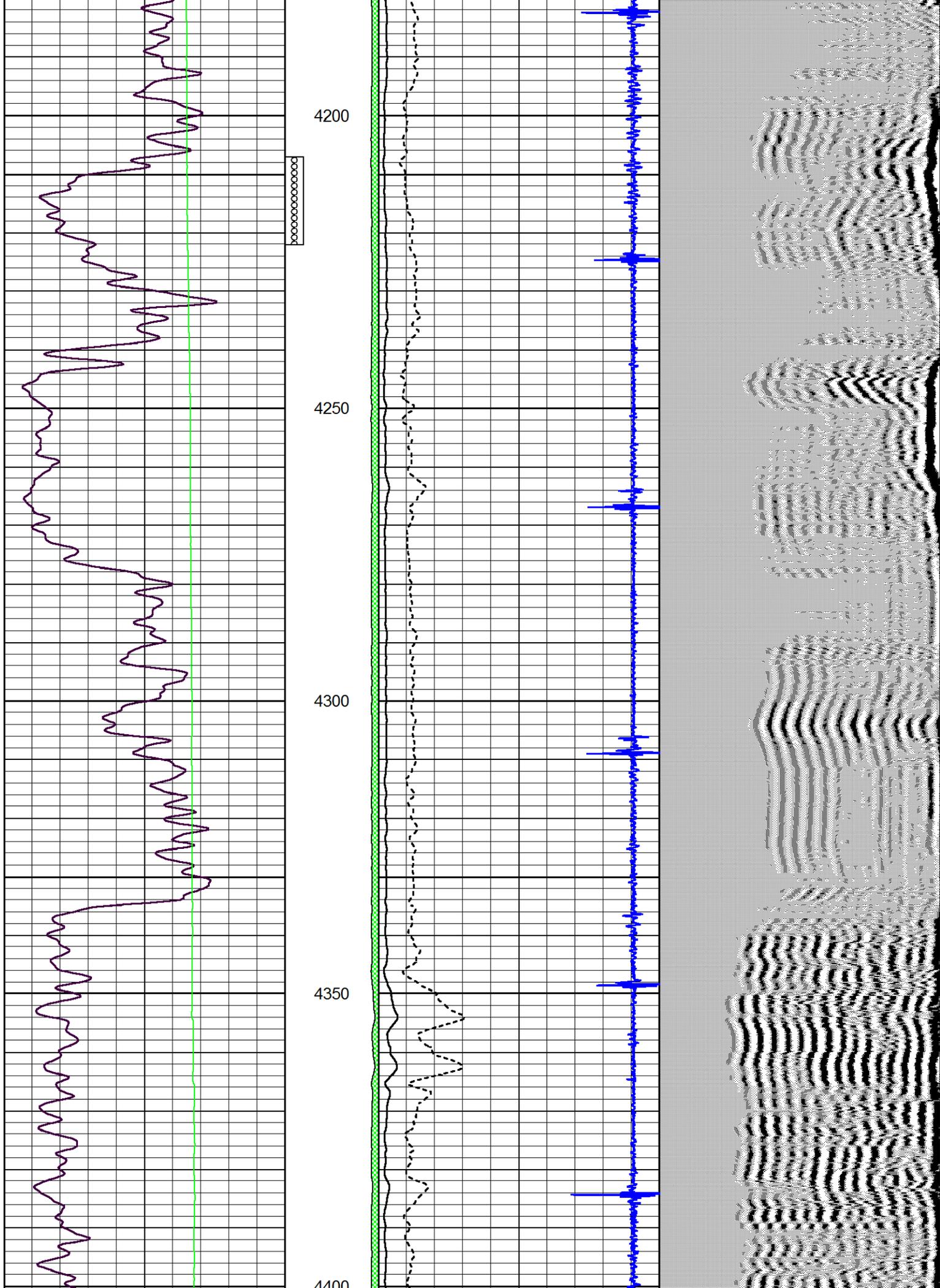
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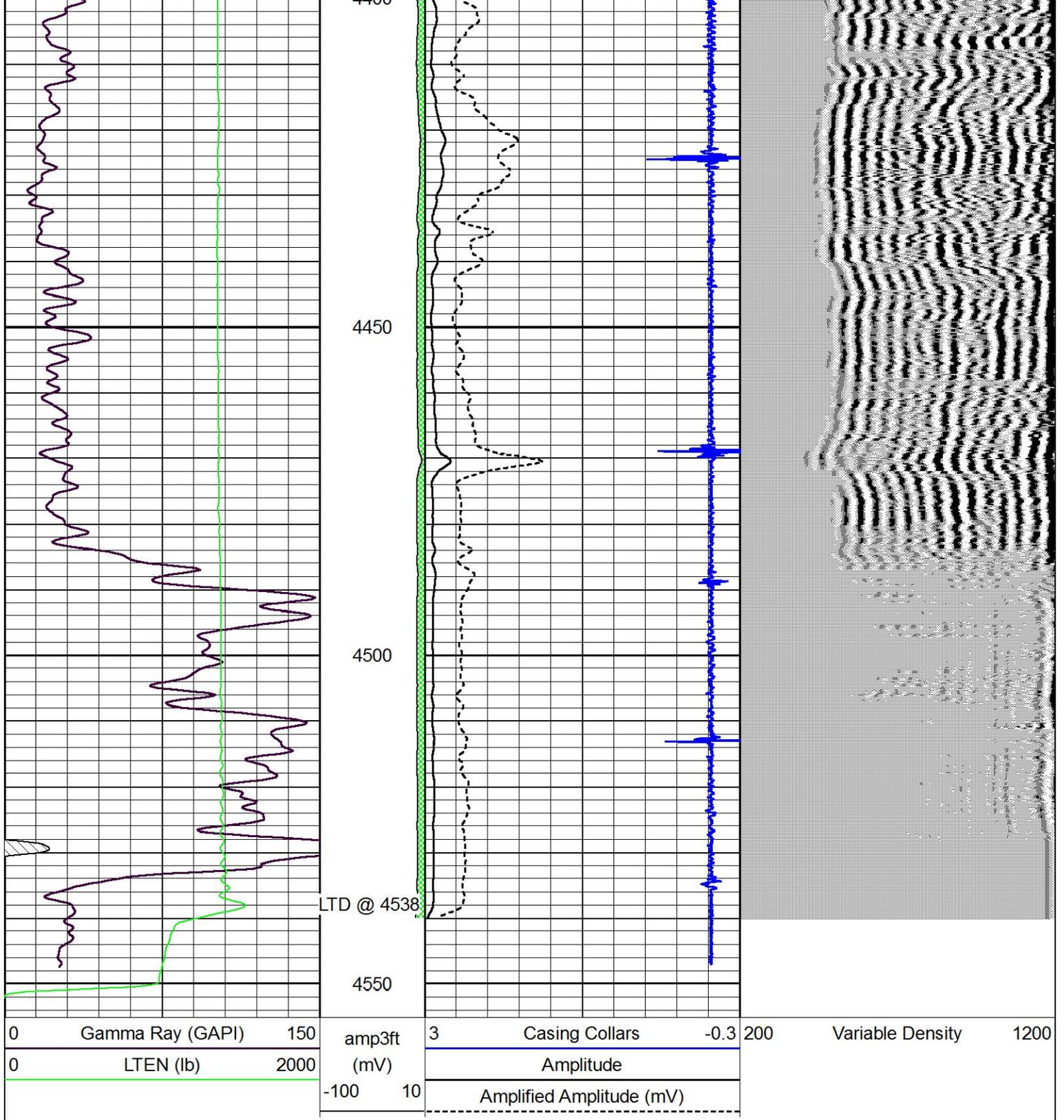
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3950









Repeat Section

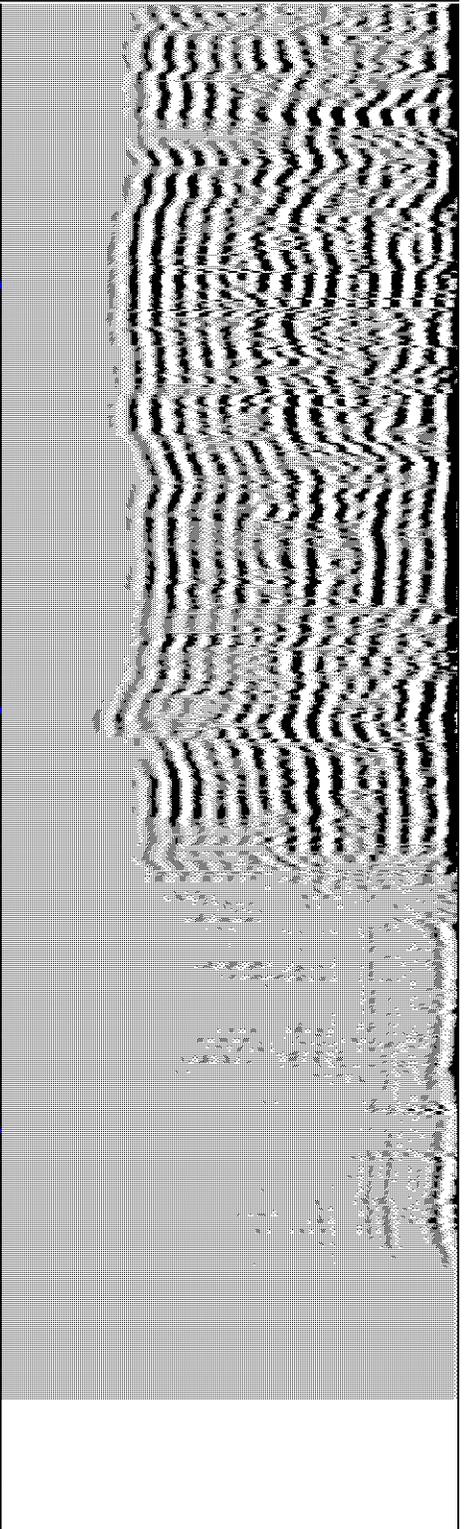
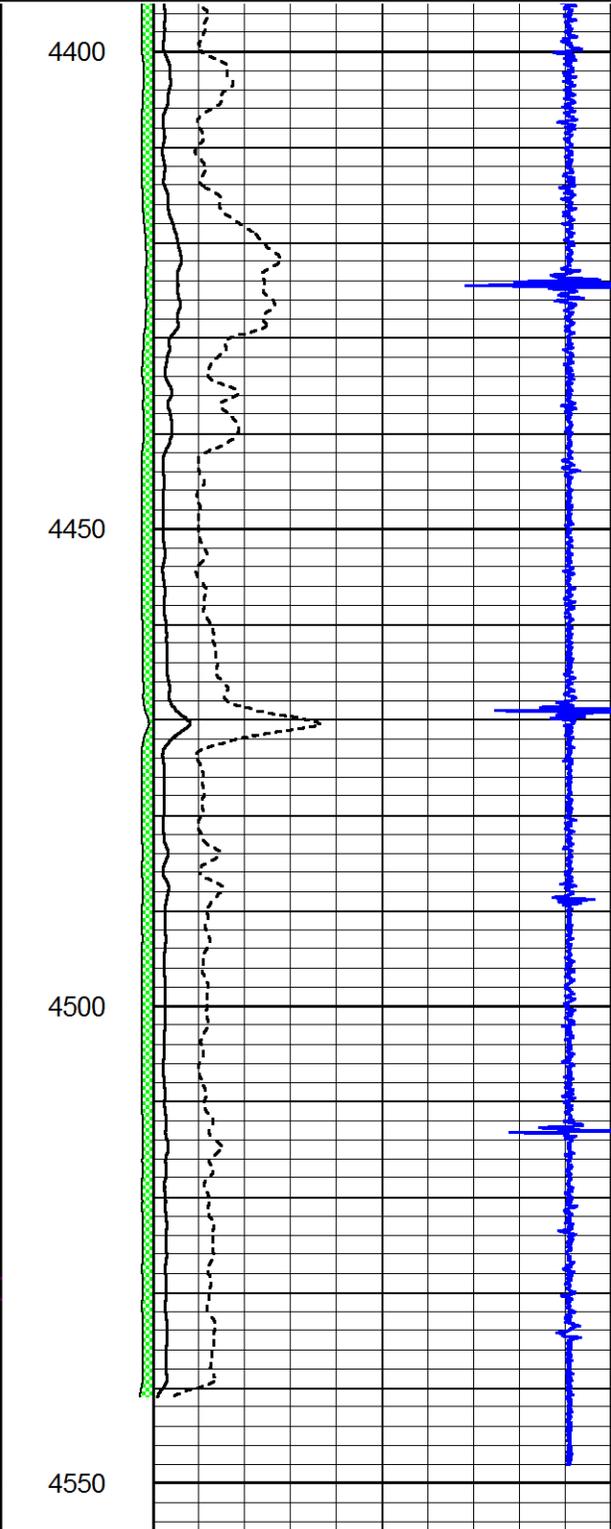
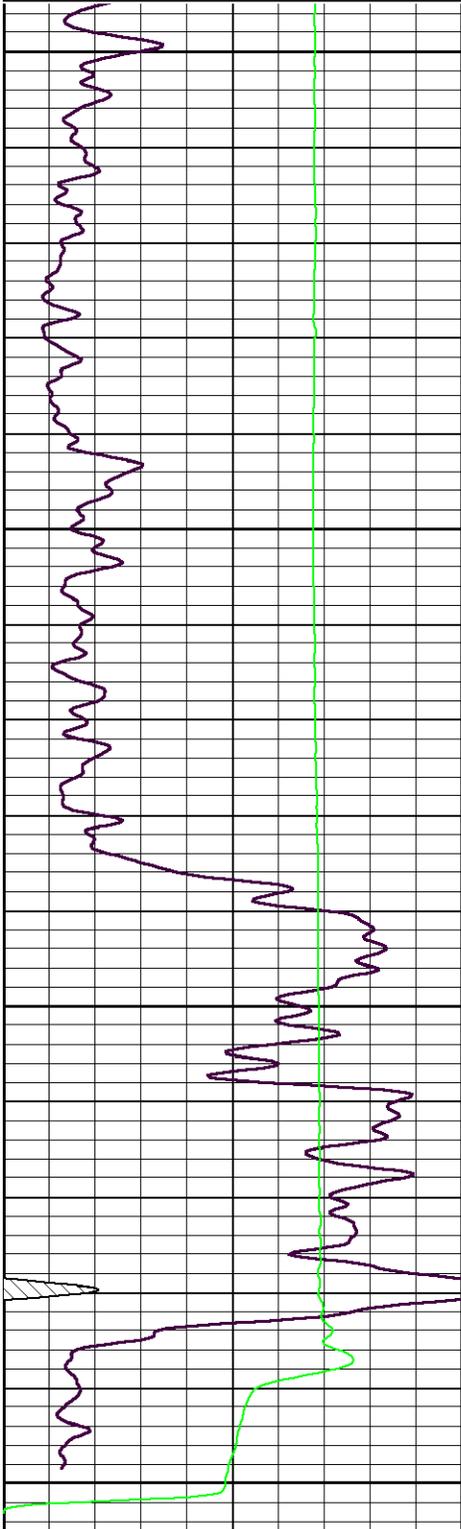
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0 LTEN (lb) 2000

(mV)
-100 10

Amplitude
Amplified Amplitude (mV)



0 Gamma Ray (GAPI) 150
0 LTEN (lb) 2000

amp3ft (mV)
-100 10

3 Casing Collars -0.3
Amplitude
Amplified Amplitude (mV)

200 Variable Density 1200