Sonic Cement Bond Log

XCEL WIRELINE

API No. 15-097-21849-0000

Company Woolsey Operating Company, LLC
Well McElwain # 1
Field Joy Station
County Kiowa State Kansas

Location 1150' FNL & 1800' FEL
Sec: 20 Twp: 28S Rge: 19W

Other Services
Mast Trailer

Elevation
K.B. 2300
D.F. 2298
G.L. 2288

Permanent Datum Ground Level Elevation 2288
Log Measured From Kelly Bushing 12 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Run Number	One		
Date Survey	2/21/2018		
Date Cementing	2/14/2019		
Type Cementing Operation	Primary		
Depth Driller	5022		
Depth Logger	4979		
Logged Interval	4978 to 3400		to
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	3560		
Calculated Cement Top			
Max. Hole Temperature	125		
Tool No.	DIG 01		
Spacing Recorded	3-5		
Equipment -- Location	01	Pratt	
Recorded By	C. Barnard		
Witnessed By	Allen Dick		

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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.

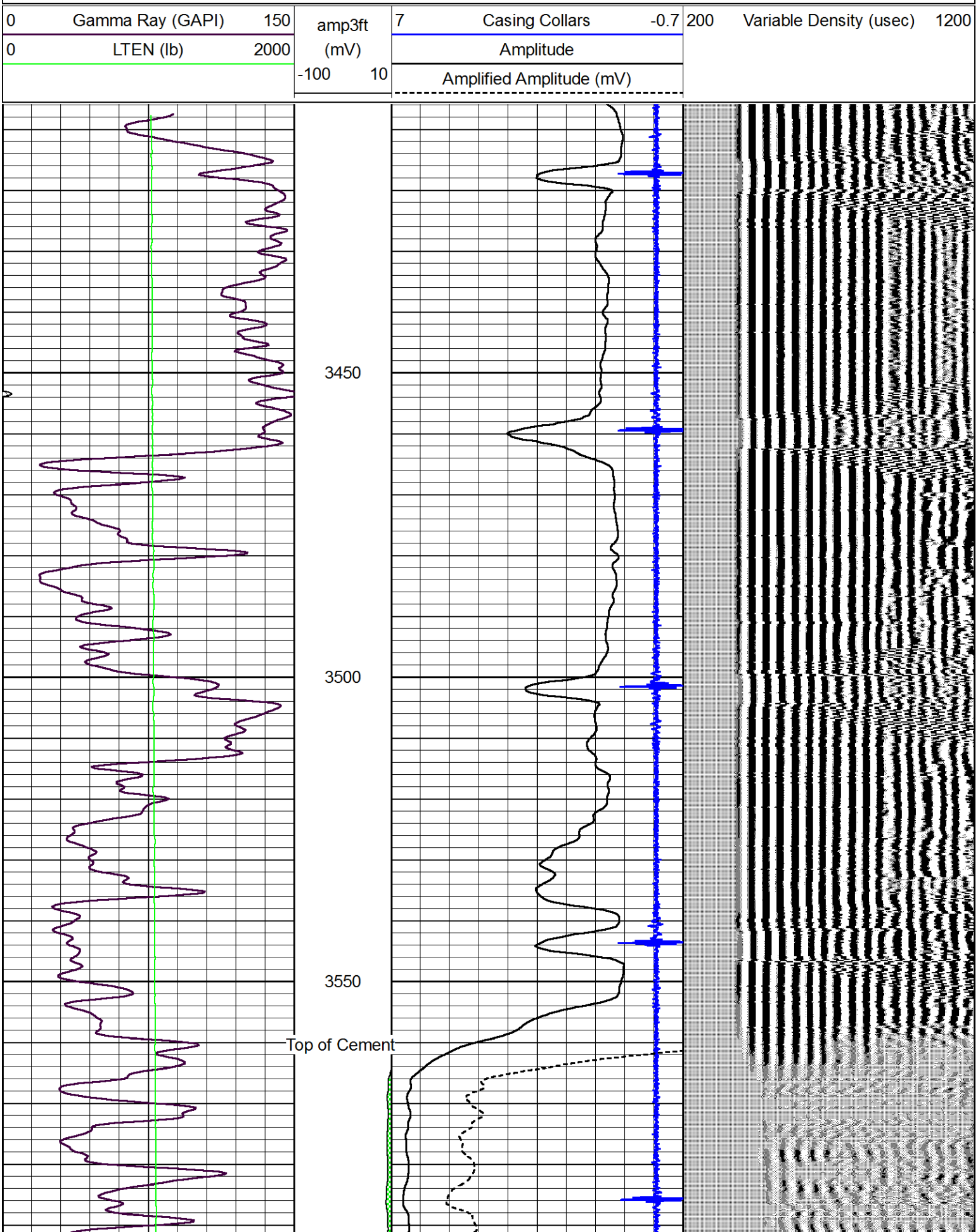
Comments

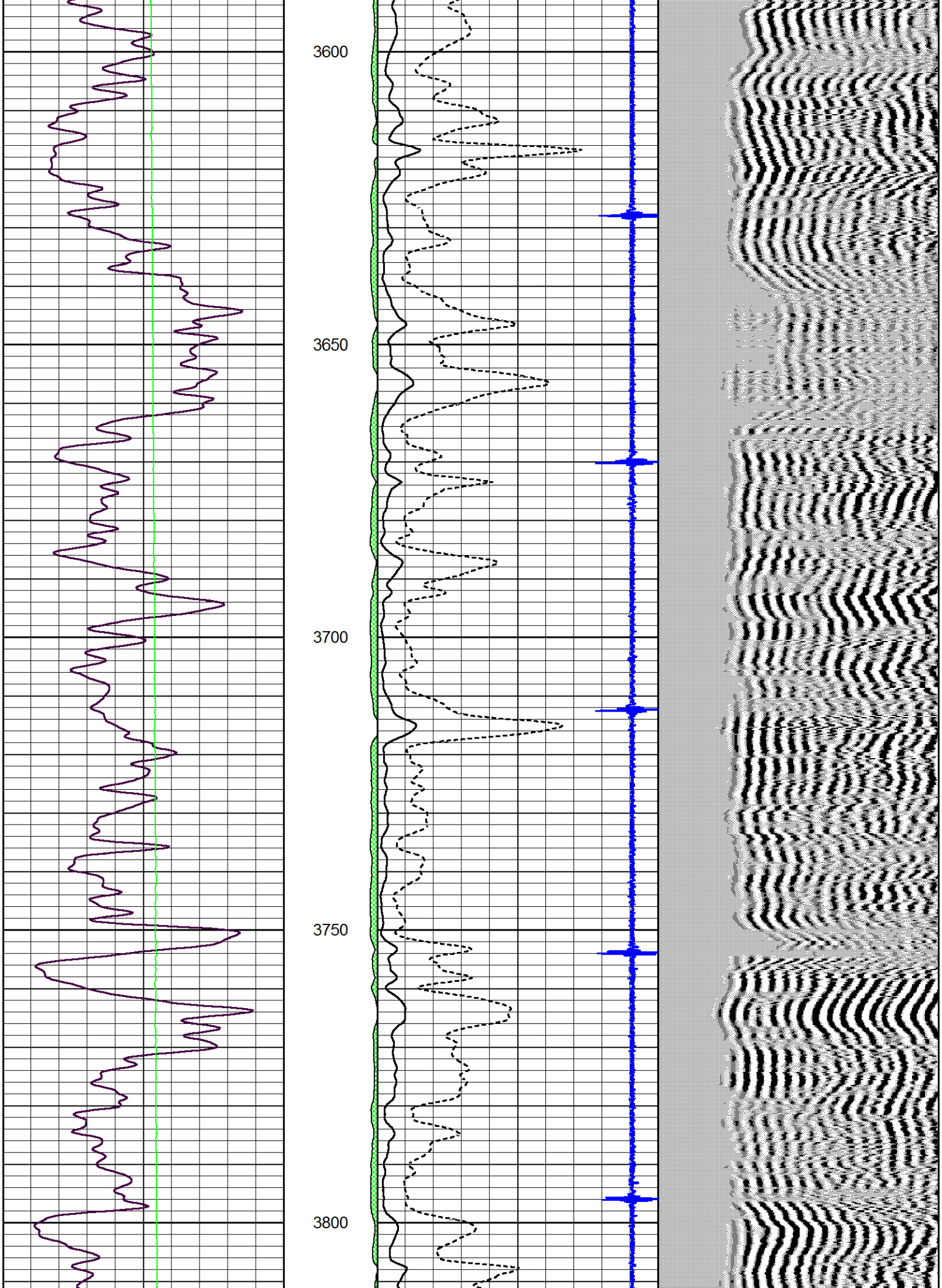
Thank you for using Excel Wireline (620) 388-5676
Greensburg, KS
West to Northern Gas Plant
1 North to J Rd.
3/4 West. South into

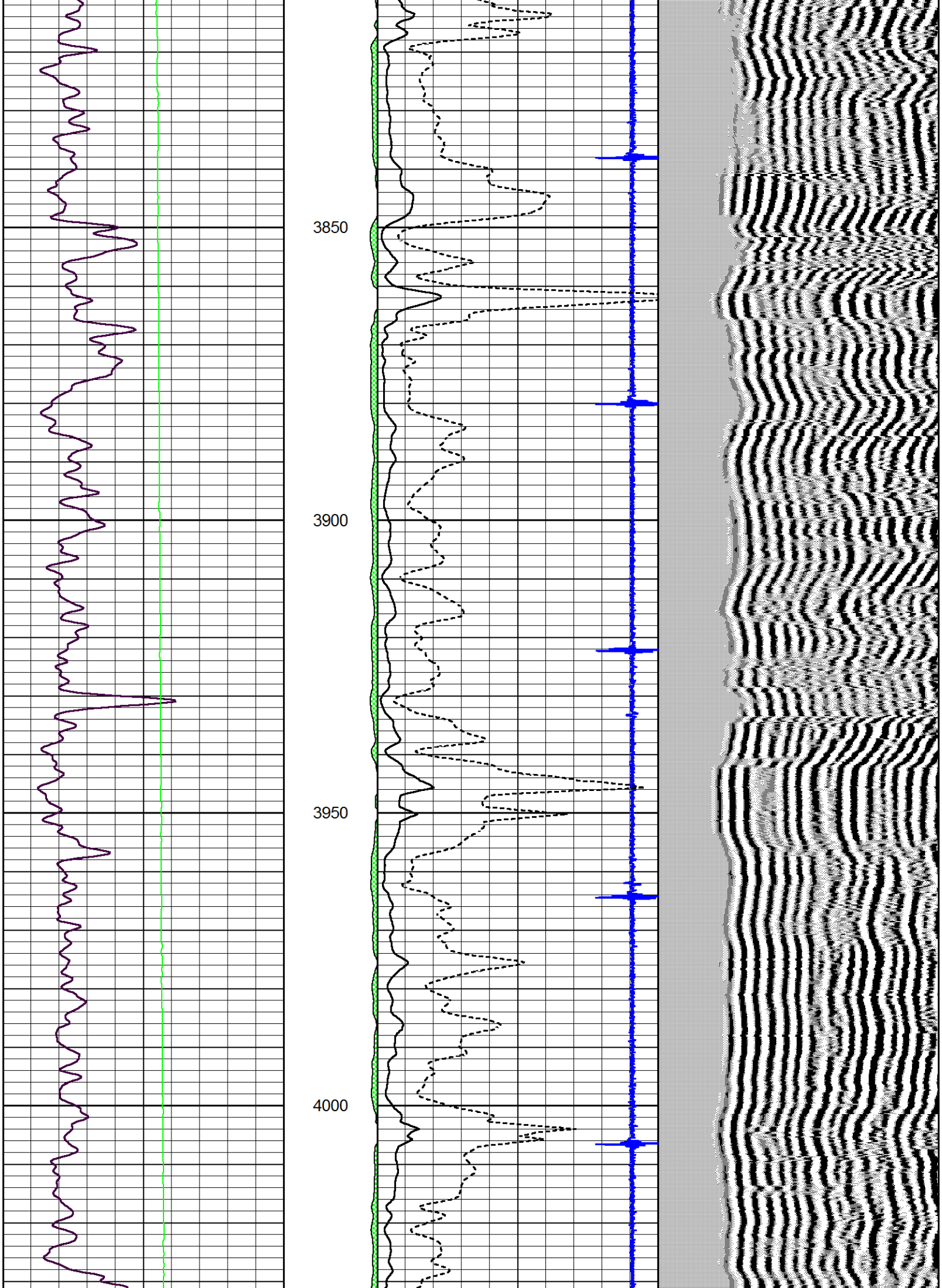
Main Pass

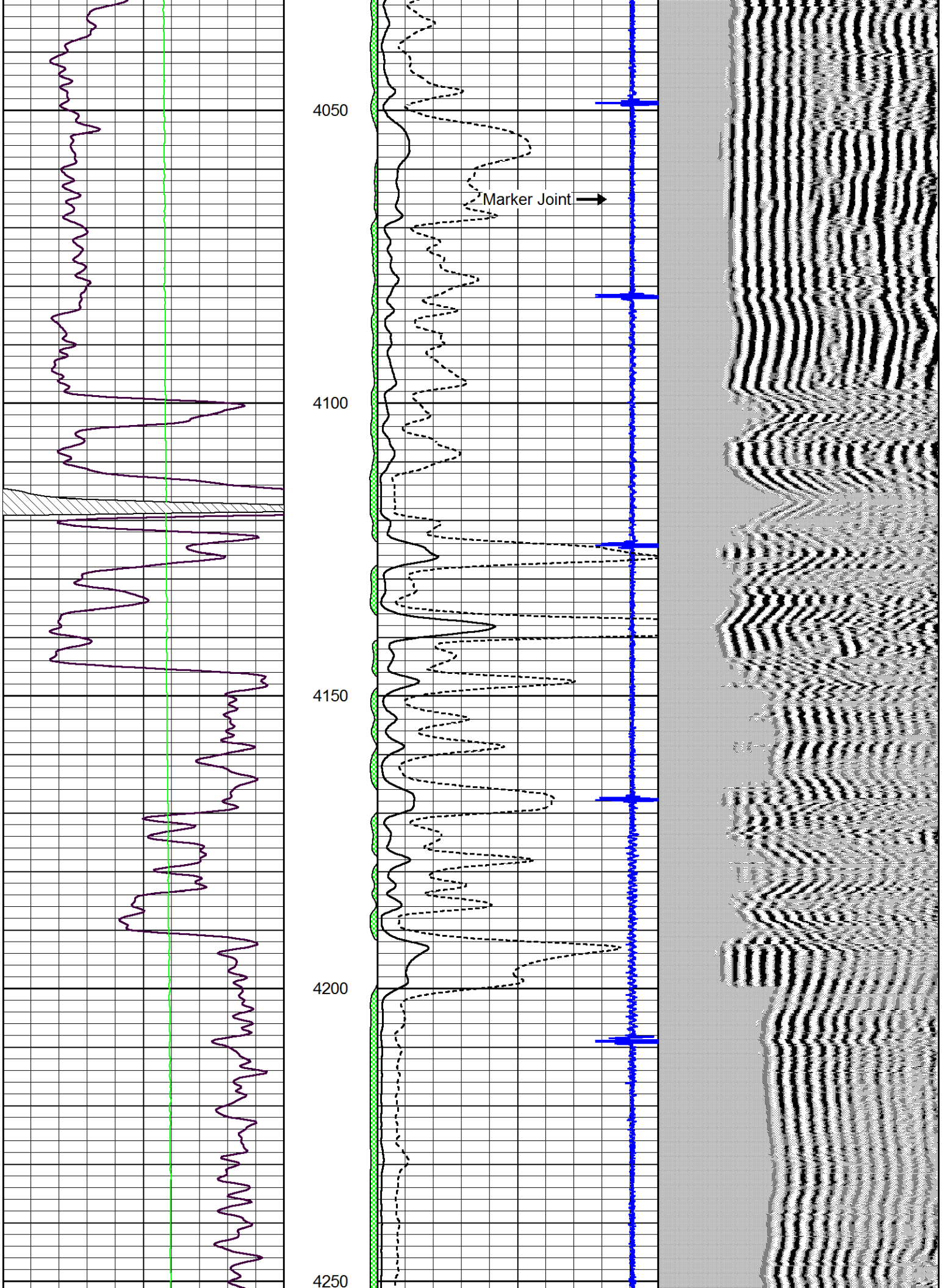
XCEL WIRELINE

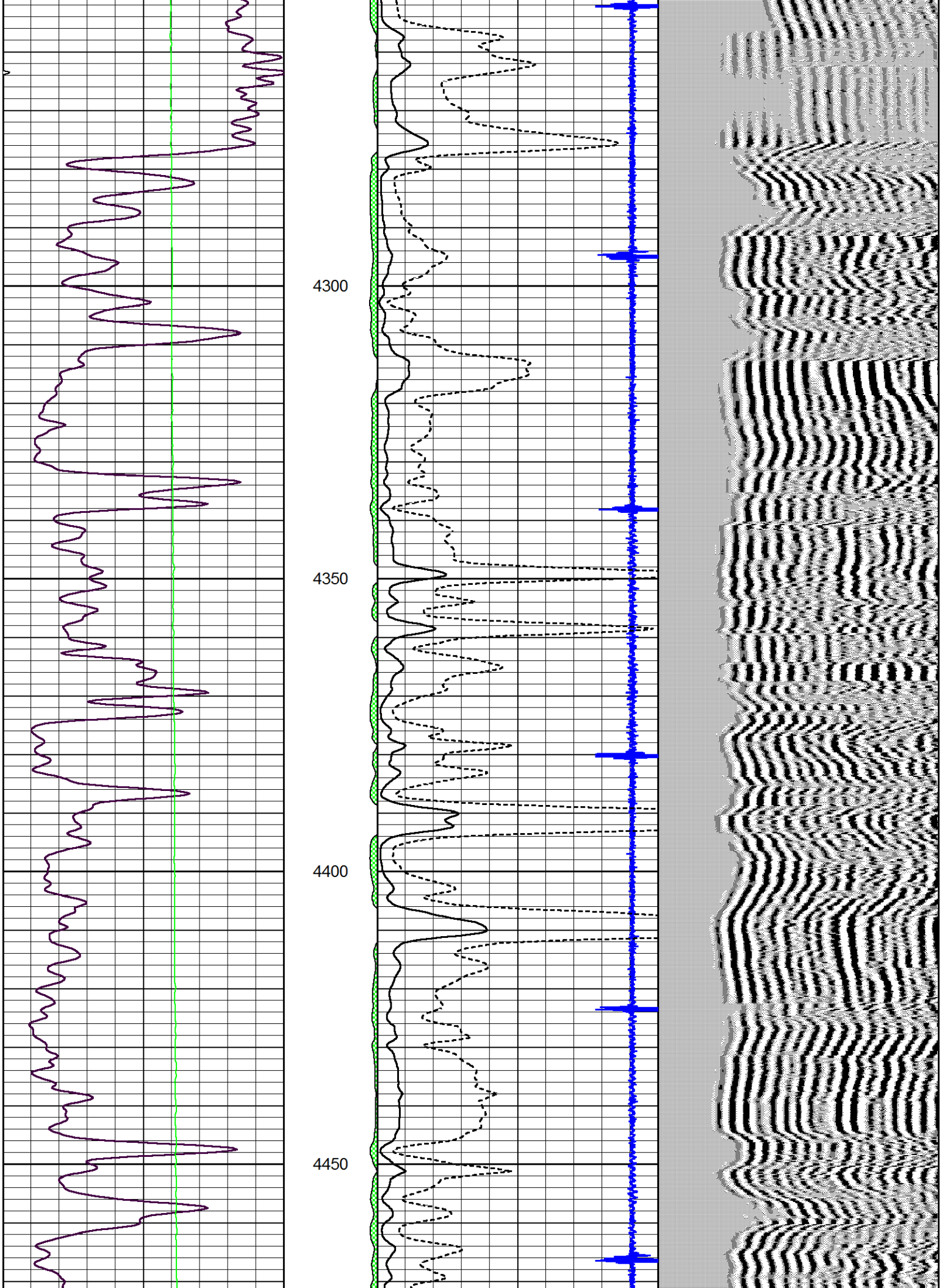
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Presentation Format	excel
Dataset Creation	Thu Feb 21 11:48:02 2019
Charted by	Depth in Feet scaled 1:240

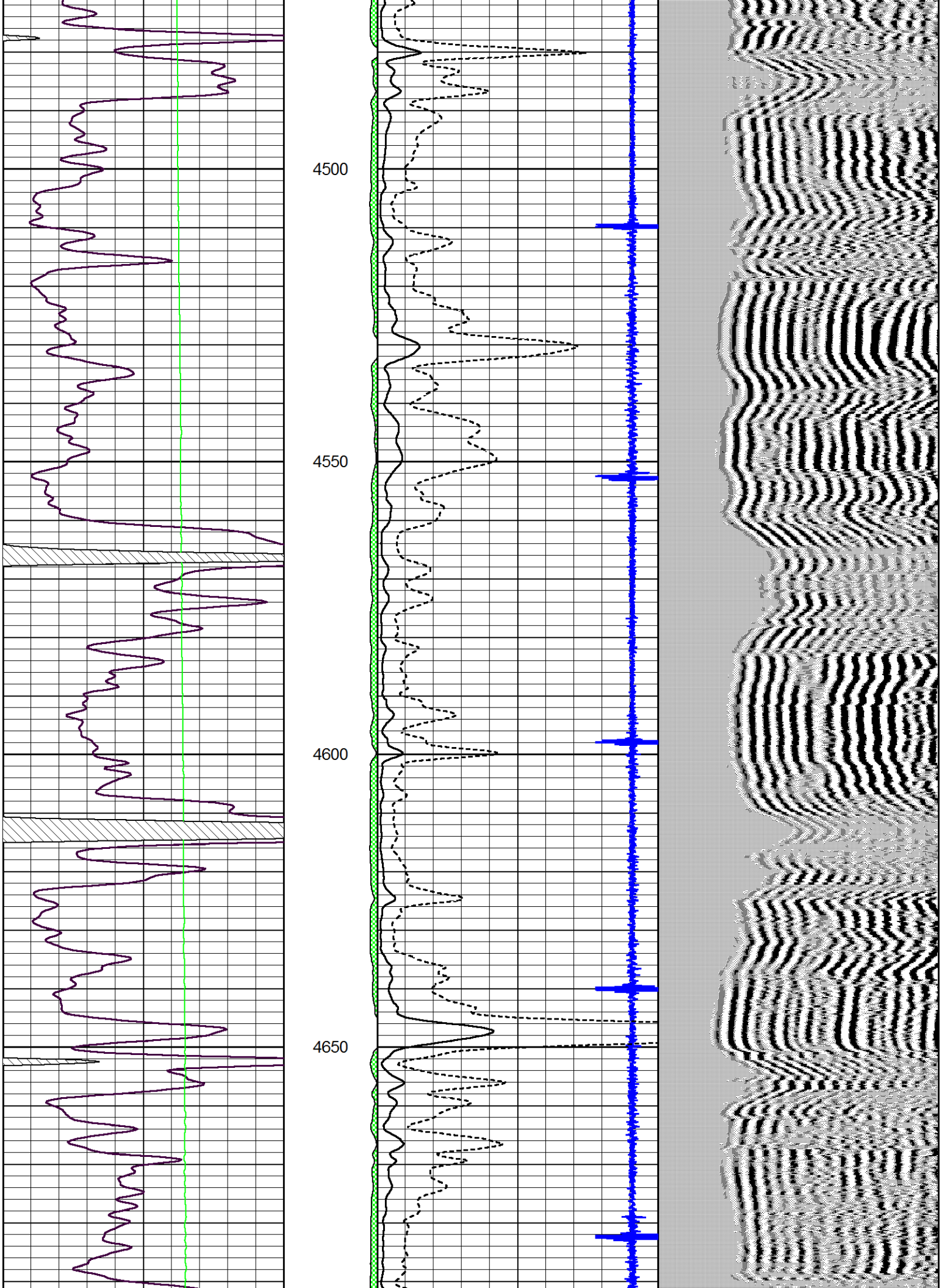


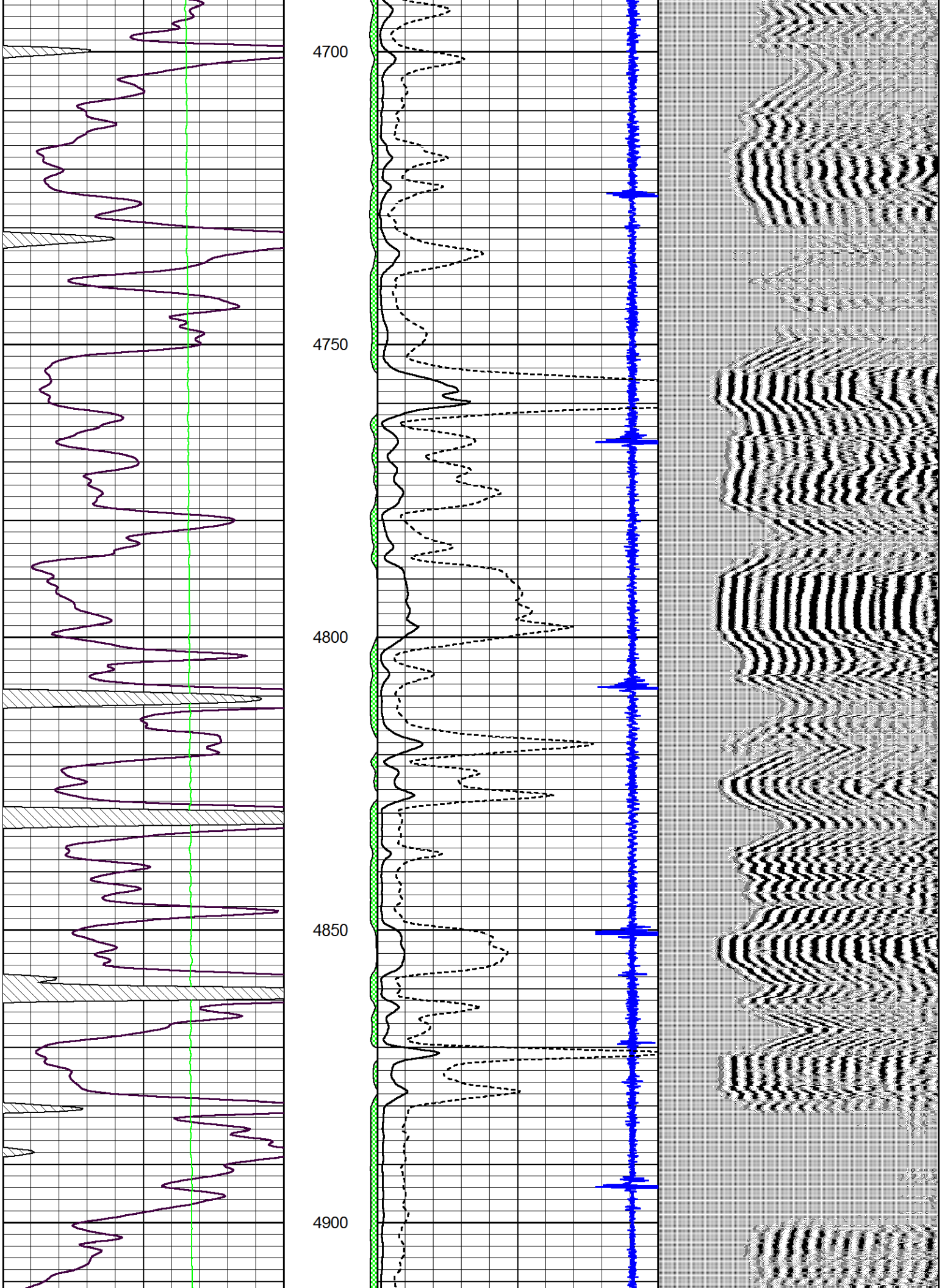

3600
3650
3700
3750
3800

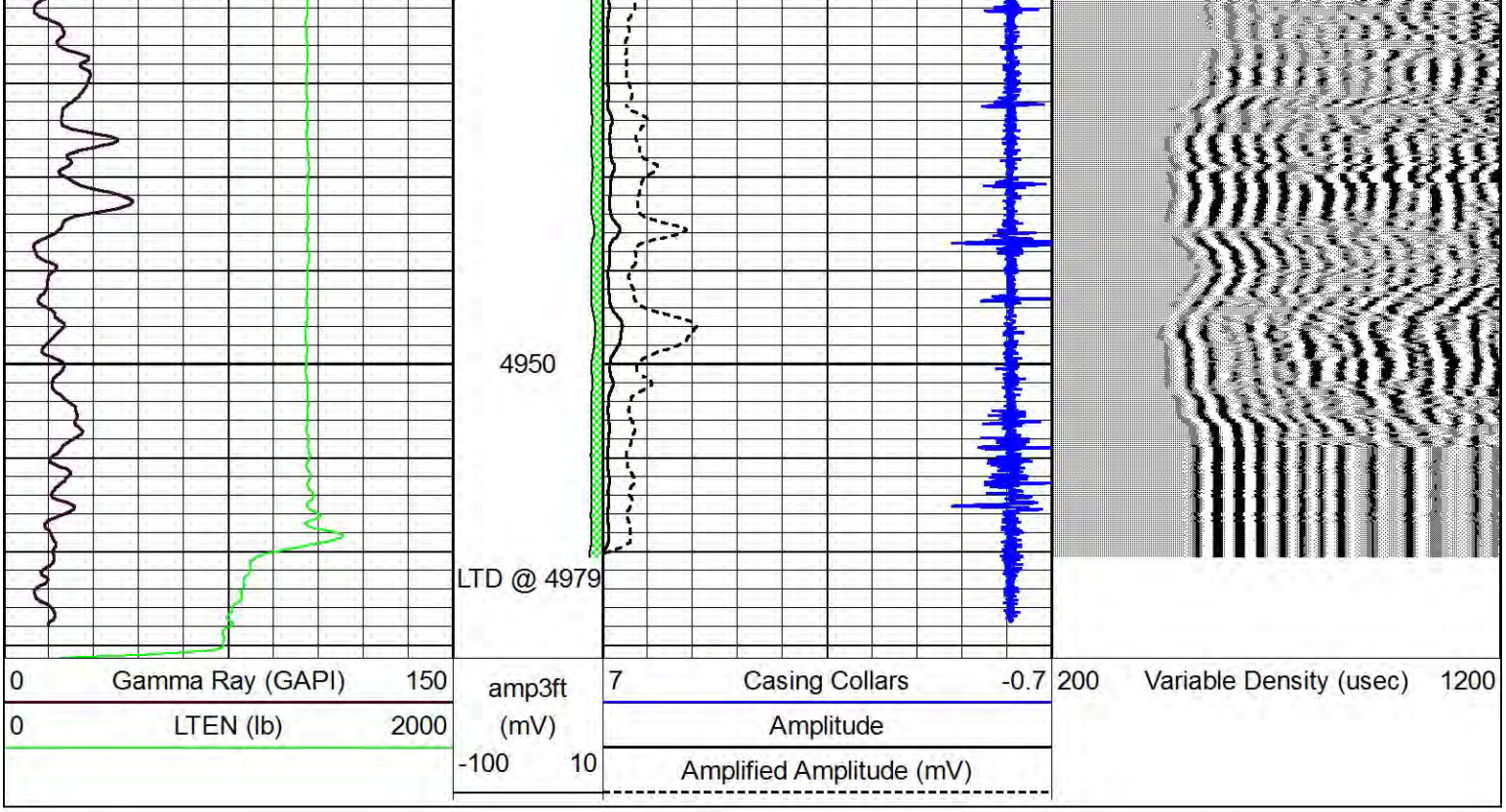

3850
3900
3950
4000


4050
Marker Joint
4100
4150
4200
4250


4300
4350
4400
4450

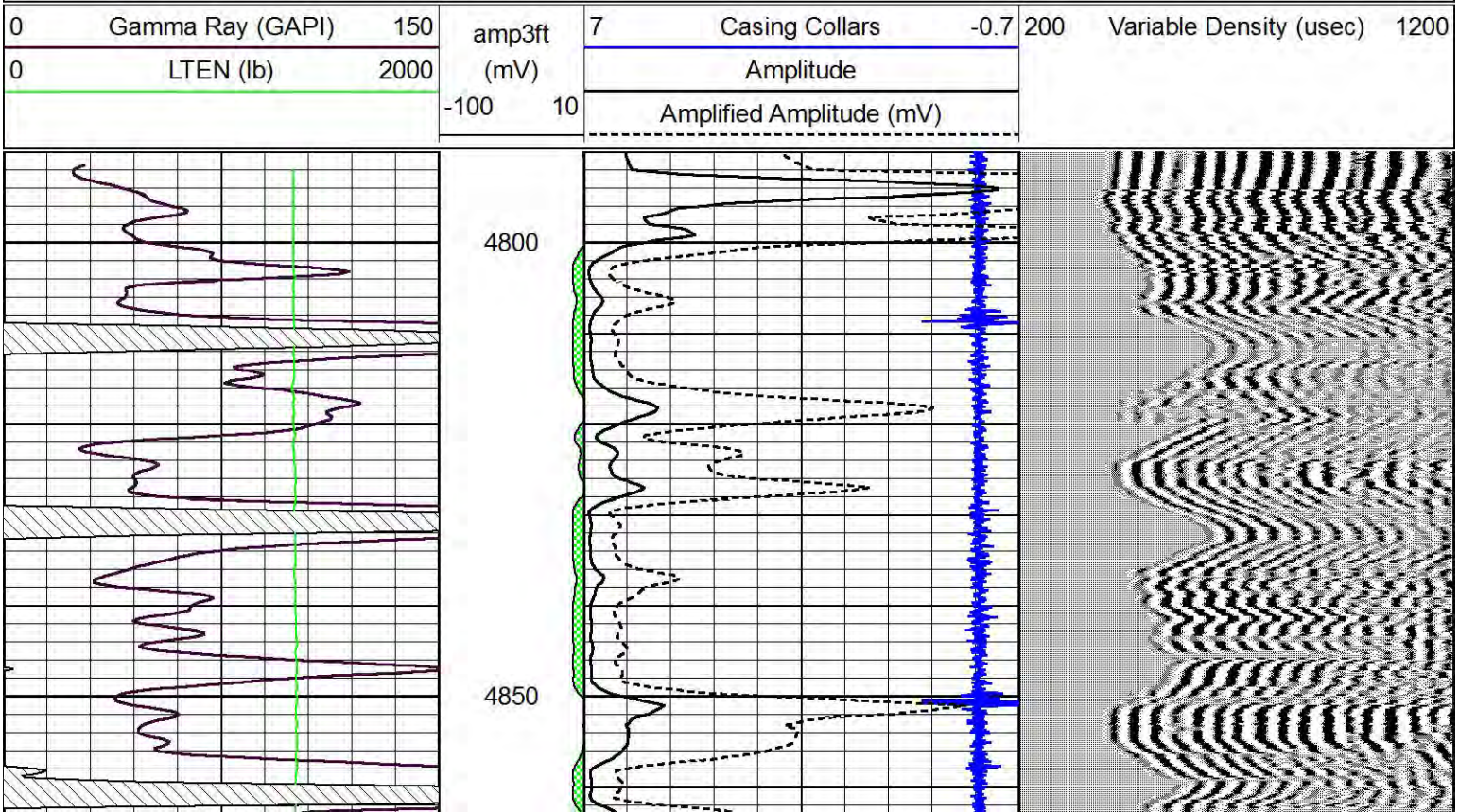

4500
4550
4600
4650

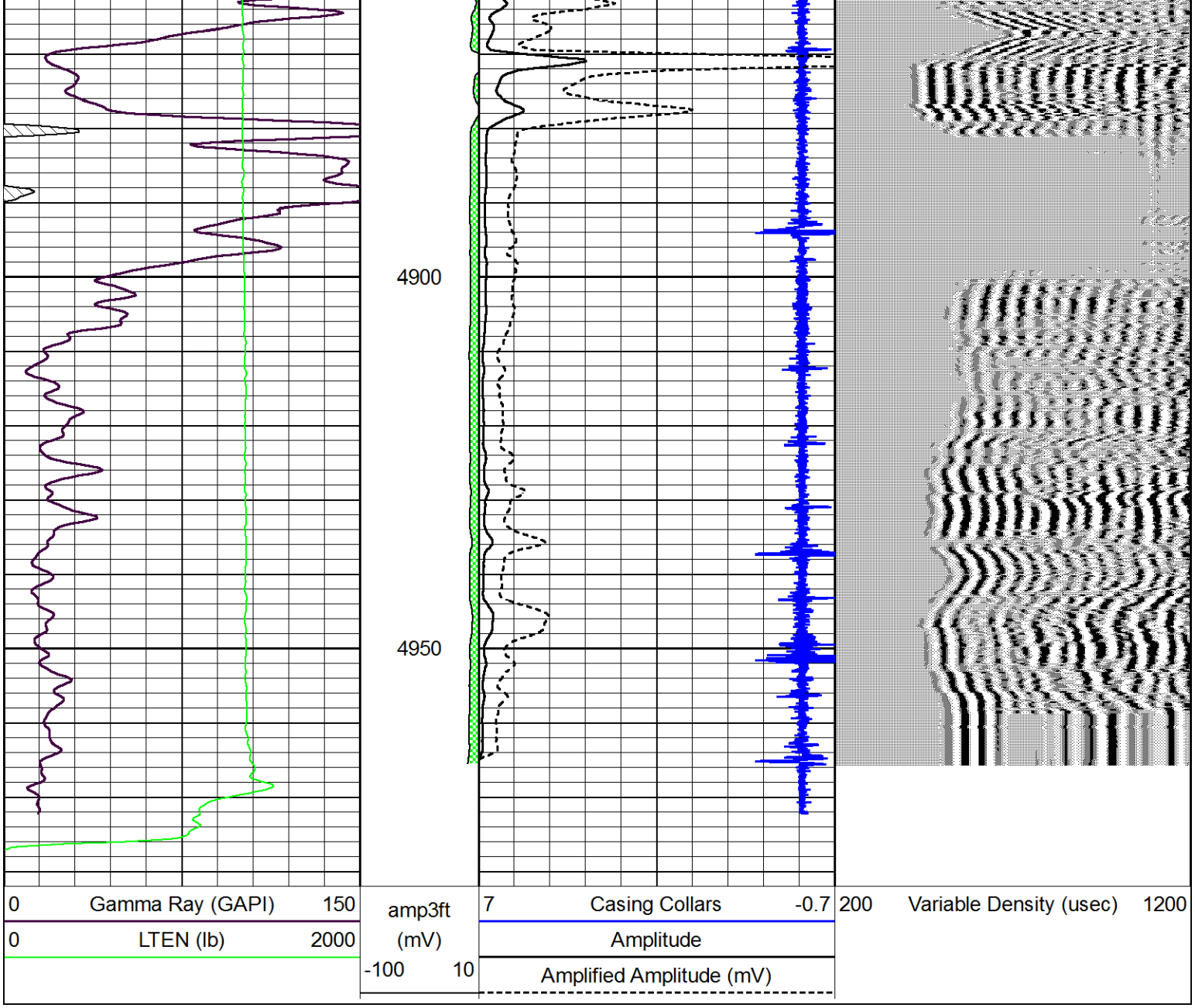

4700
4750
4800
4850
4900



Repeat Section

Database File	woolsey_mcelwain_#1.db
Dataset Pathname	woolsey/well/grcbl/pass2
Presentation Format	excel
Dataset Creation	Thu Feb 21 11:42:13 2019
Charted by	Depth in Feet scaled 1:240




4900
4950
0 Gamma Ray (GAPI) 150
0 LTEN (lb) 2000
amp3ft
(mV)
-100 10
7 Casing Collars -0.7
Amplitude
Amplified Amplitude (mV)
200 Variable Density (usec) 1200