CEMENT BOND LOG

Company PATTERSON ENERGY, LLC.
Well HABIGER #1
Field BLOOMER
County RICE
State Kansas

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Location: API # : 15 159 22882

980' FNL & 2257' FEL

SEC 5 TWP 18S RGE 10W

Other Services

Permanent Datum	Ground Level	Elevation	1764
Log Measured From	KB 8' AGL		
Drilling Measured From	KB		

Elevation
K.B. 1772
D.F. 1770
G.L. 1764

Date	05/09/22		
Run Number	One		
Depth Driller	3274		
Depth Logger	3225		
Bottom Logged Interval	3223		
Top Log Interval	2200		
Open Hole Size	7 7/8"		
Type Fluid	Chemical		
Density / Viscosity	////		
Max. Recorded Temp.	///		
Estimated Cement Top	2334		
Time Well Ready	ROA		
Time Logger on Bottom	12:30 P.m		
Equipment Number	T-118		
Location	Hays, KS		
Recorded By	GUS PFANENSTIEL		
Witnessed By			

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8"	26#	0'	394'
Prot. String				
Production String	5.5"	15.5#	0'	3225'
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

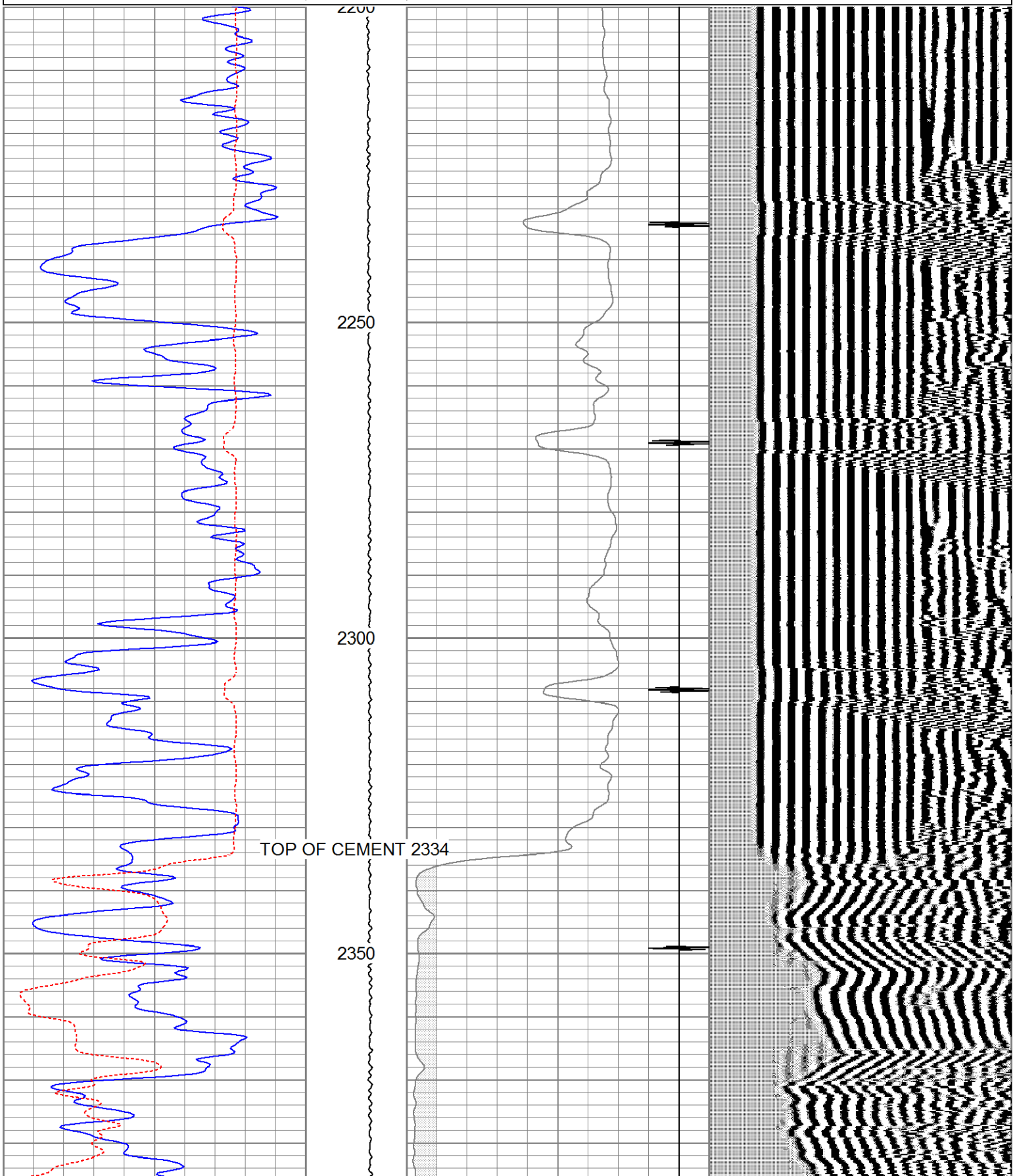
4 EAST OF CLAFLIN, NORTH INTO.

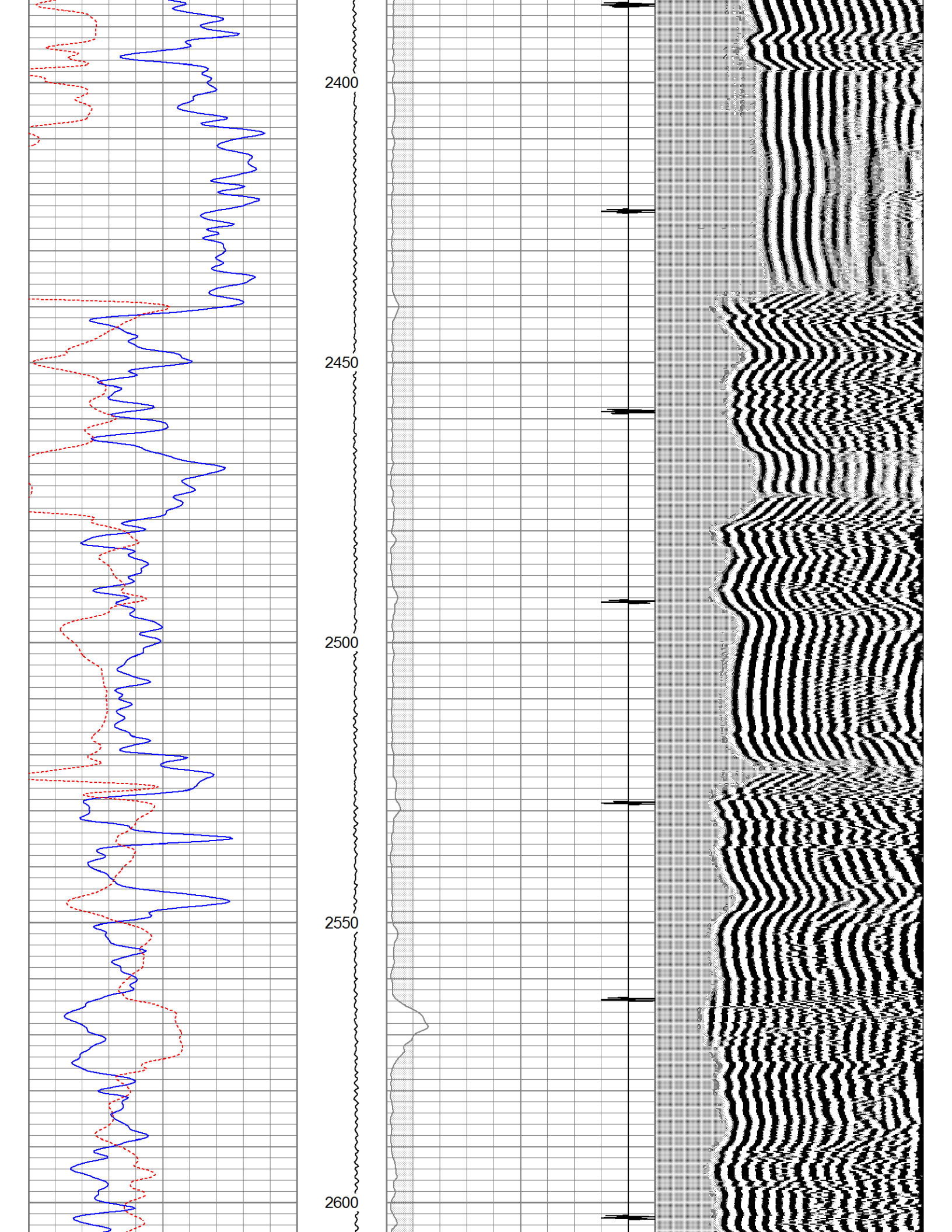
Thanks for using Gemini Wireline LLC
785-625-1182

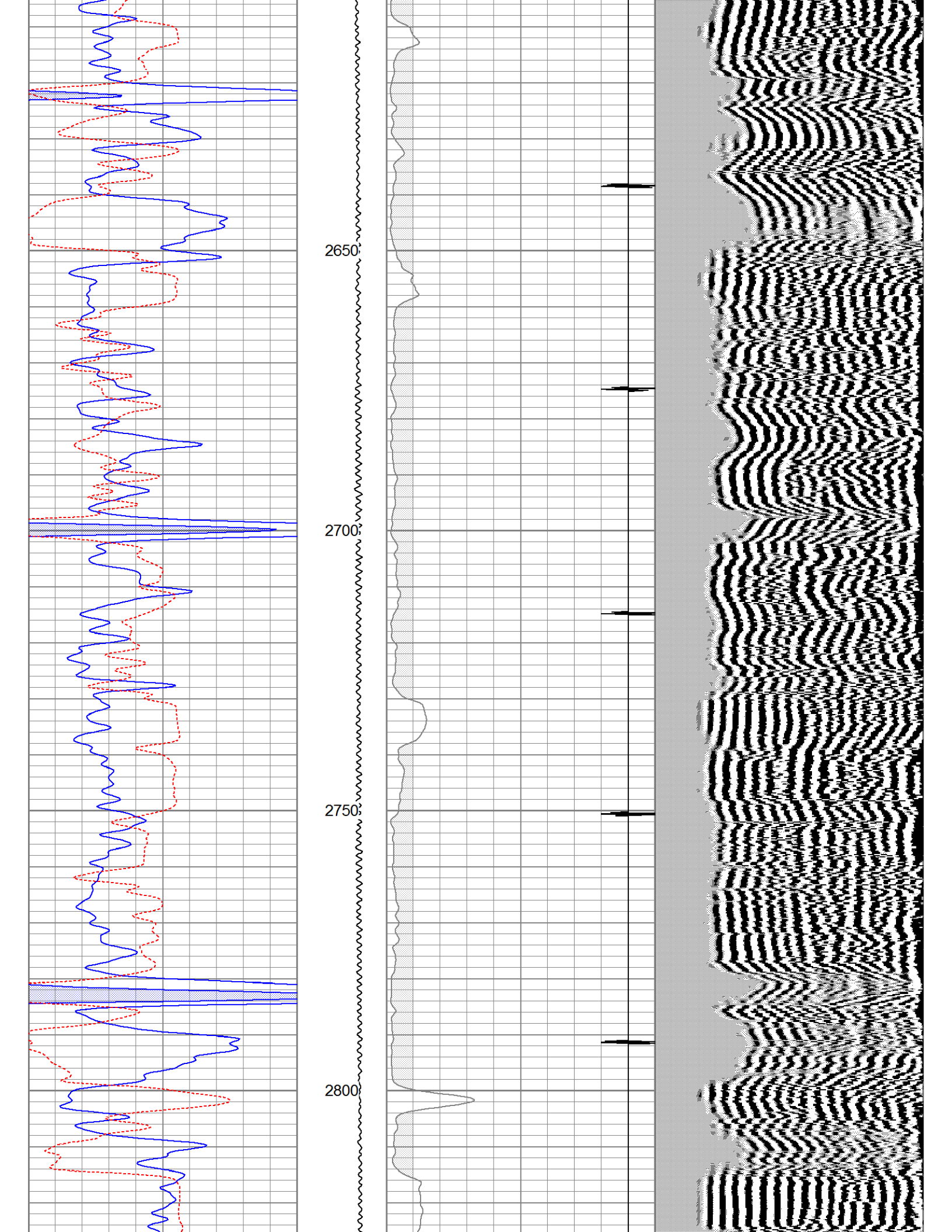
MAIN PASS

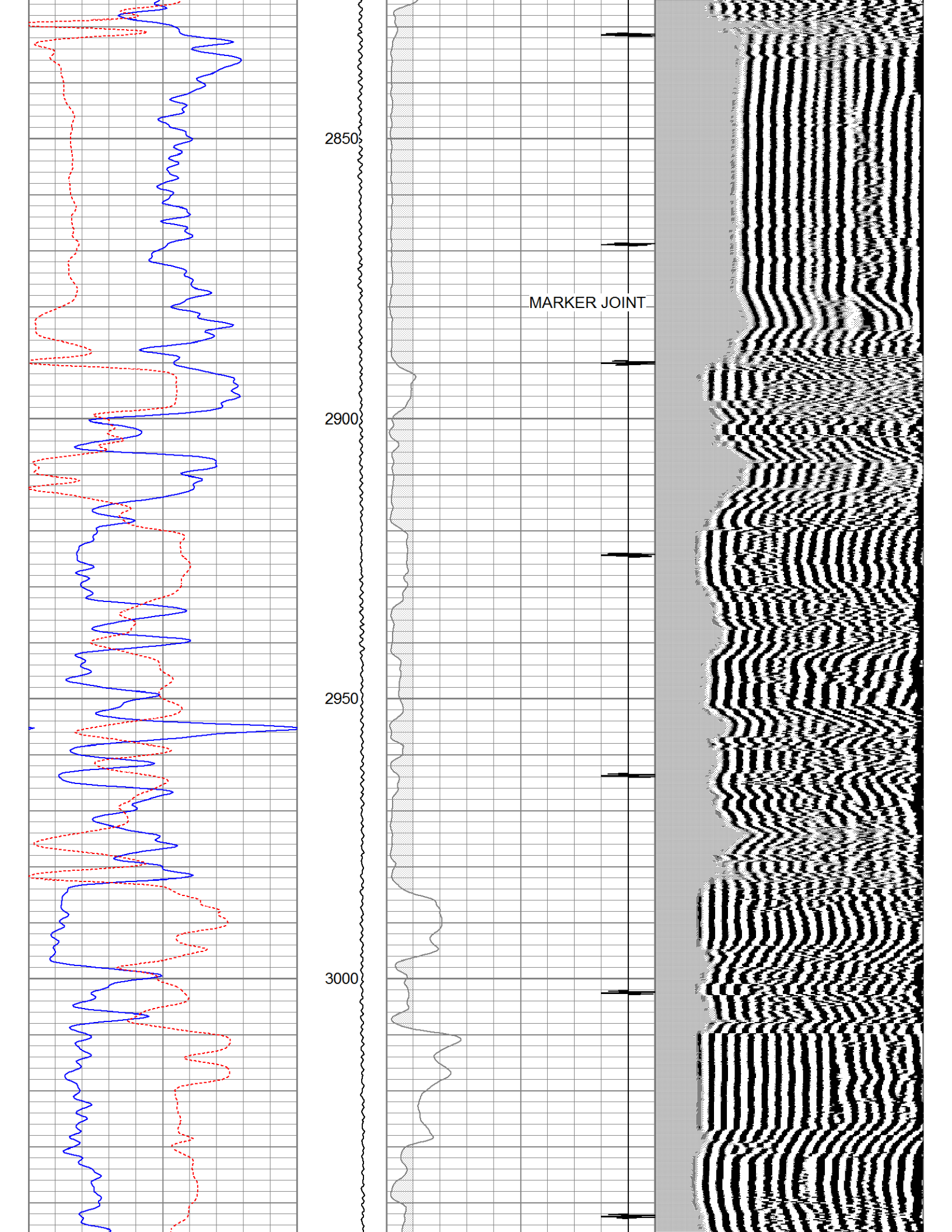
Database File	pehabiger#1cbl.db
Dataset Pathname	pass2.1
Presentation Format	cbl
Dataset Creation	Mon May 09 13:13:34 2022
Charted by	Depth in Feet scaled 1:240

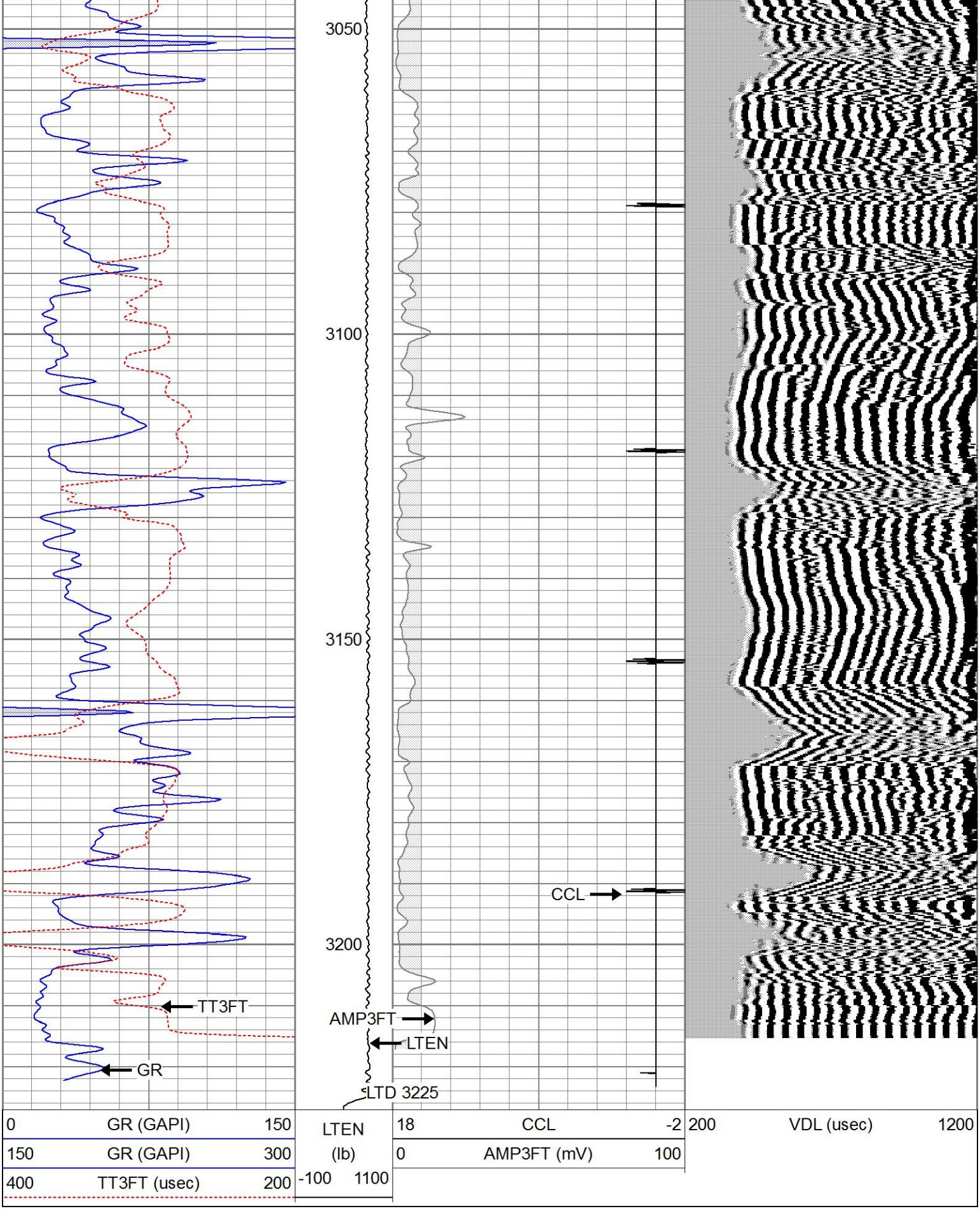
0	GR (GAPI)	150	LTEN	18	CCL	-2	200	VDL (usec) 1200
150	GR (GAPI)	300	(lb)	0	AMP3FT (mV)	100		
400	TT3FT (usec)	200	-100 1100					




2400
2450
2500
2550
2600


2650
2700
2750
2800

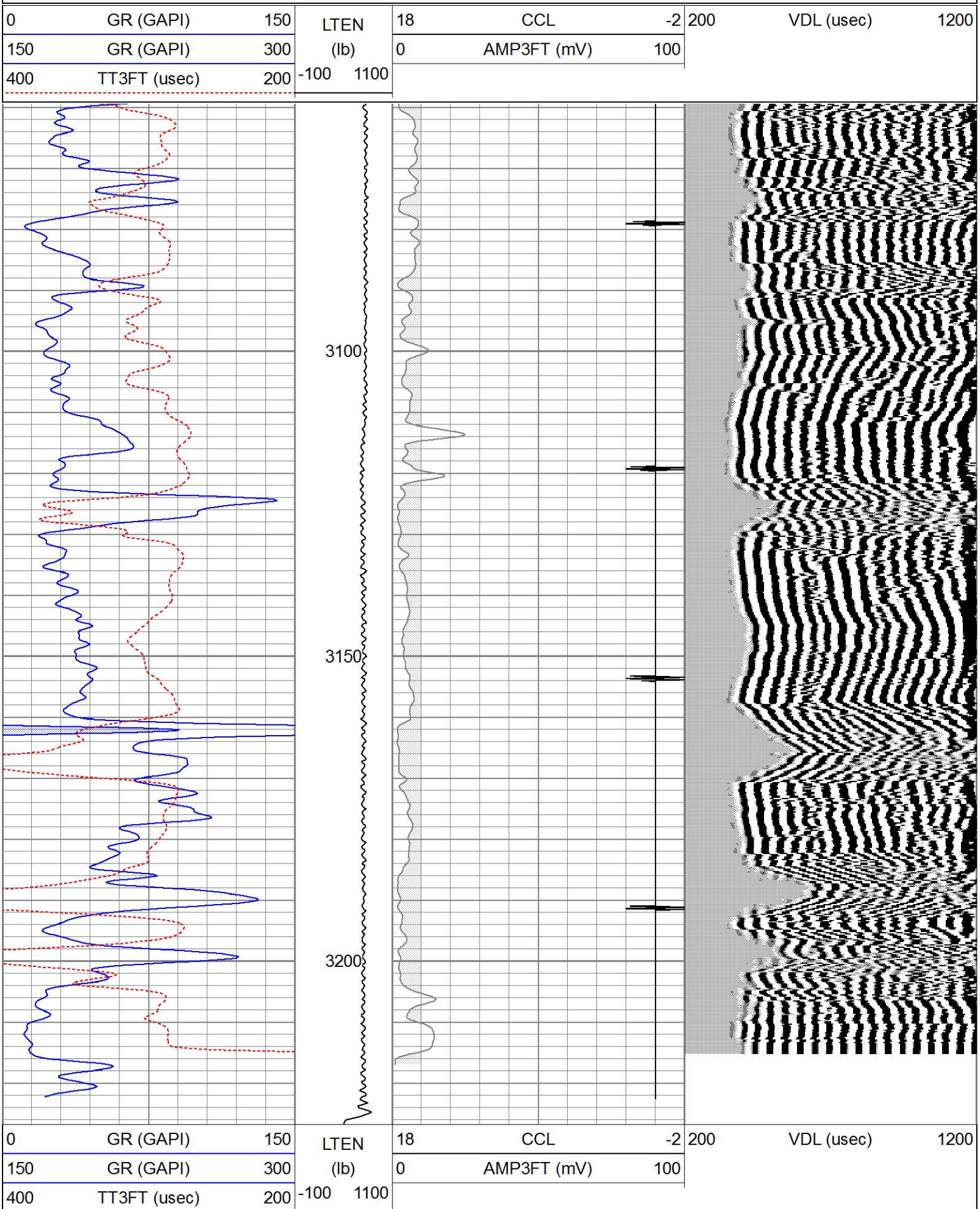

2850
2900
2950
3000
MARKER JOINT



GEMINI WIRELINE

REPEAT SECTION

Database File	pehabiger#1cbl.db
Dataset Pathname	pass1.1
Presentation Format	cbl
Dataset Creation	Mon May 09 13:17:38 2022
Charted by	Depth in Feet scaled 1:240



Calibration Report

Database File	pehabiger#1cbl.db
Dataset Pathname	pass1.1
Dataset Creation	Mon May 09 13:17:38 2022

Gamma Ray Calibration Report

Serial Number:	080224	
Tool Model:	Probe1	
Performed:	Wed Jun 09 10:33:39 2021	
Calibrator Value:	200.0	GAPI
Background Reading:	15.0	cps
Calibrator Reading:	222.7	cps
Sensitivity:	1.2000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	061007	
Tool Model:	DigitalCBL	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	2265.842	ft

Master Calibration, performed Tue Sep 07 15:01:13 2021:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.003	1.187	1.000	71.921	59.879	0.846
CAL						
5'	0.002	1.178	1.000	71.921	60.316	0.853
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL						

Air Zero Calibration, performed (Not Performed):

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1			

S2
S3
S4
S5
S6
S7
S8