CEMENT BOND LOG

Company Patterson Energy, LLC.
Well Berstorft-Janke #11
Field Kraft-Prusa
County Barton State KS

Company Patterson Energy, LLC.

Well Berstorft-Janke #11

Field Kraft-Prusa

County Barton State KS

Location: API # : 15 009 26349

1400' FNL & 1350' FEL

SEC 33 TWP 16S RGE 11W

Other Services

Permanent Datum	Ground Level	Elevation	1912'
Log Measured From	KB 5' AGL		
Drilling Measured From	KB		

Elevation
K.B. 1917'
D.F. 1916'
G.L. 1912'

Date	05/16/22		
Run Number	One		
Depth Driller	3660'		
Depth Logger	3510'		
Bottom Logged Interval	3508'		
Top Log Interval	2200'		
Open Hole Size	7 7/8"		
Type Fluid	Water		
Density / Viscosity	////		
Max. Recorded Temp.	///		
Estimated Cement Top	2375'		
Time Well Ready	MAST		
Time Logger on Bottom	9:00 AM		
Equipment Number	T-118		
Location	Hays, KS		
Recorded By	C.Patterson		
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'	730'
Prot. String				
Production String	5.5"	15.5#	0'	3550'
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

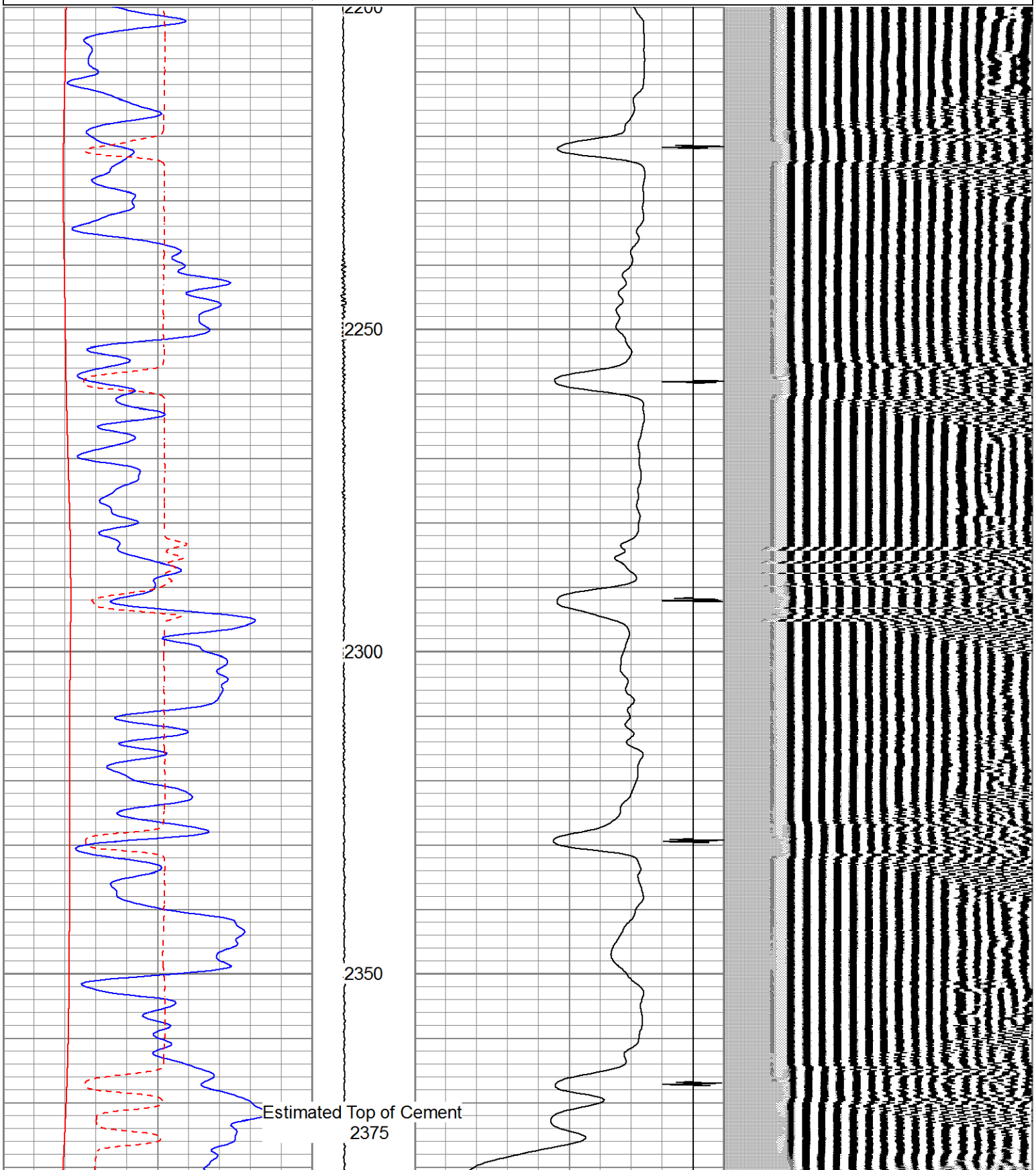
Claflin,KS North to 180 Rd., 1/4 mi West South Into

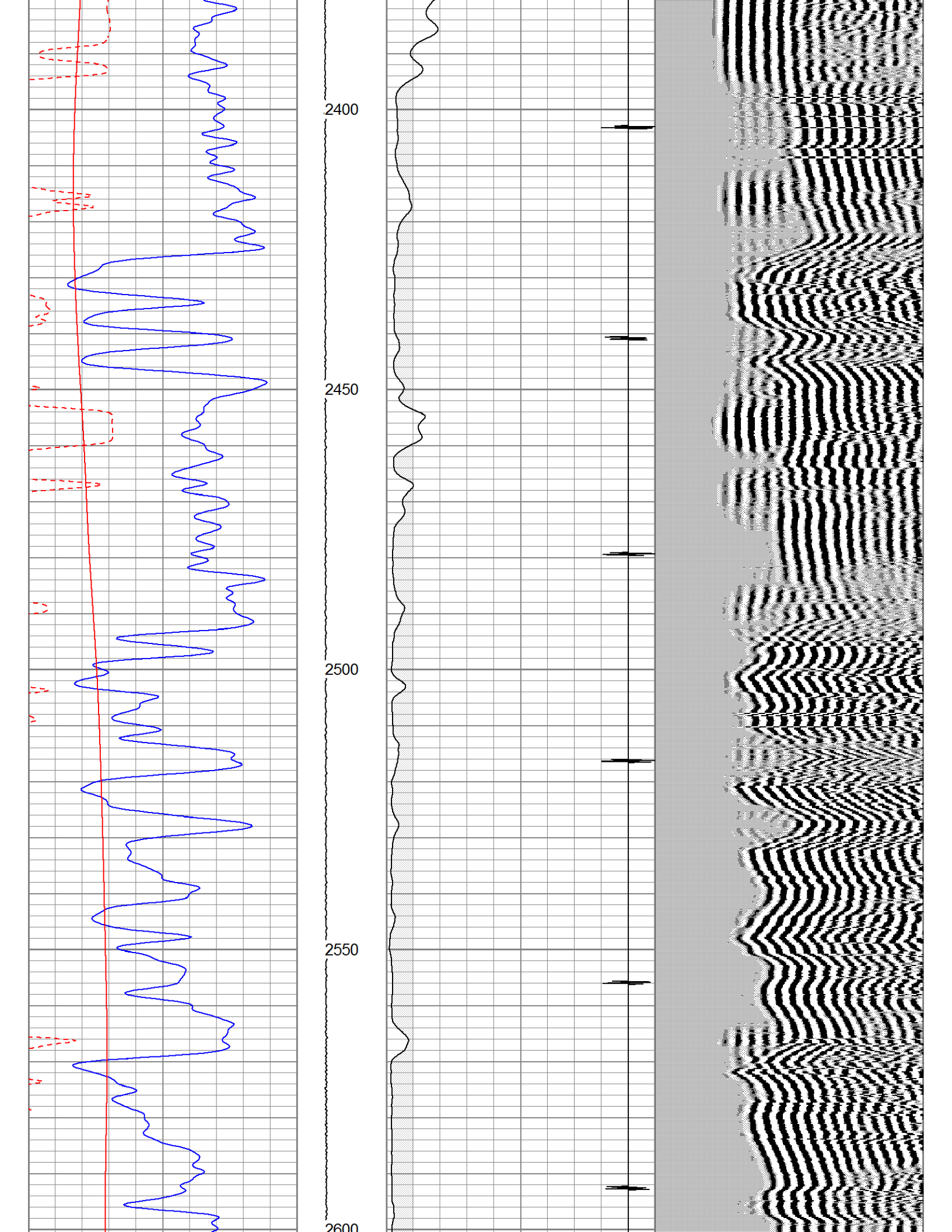
Thanks for using Gemini Wireline LLC
785-625-1182

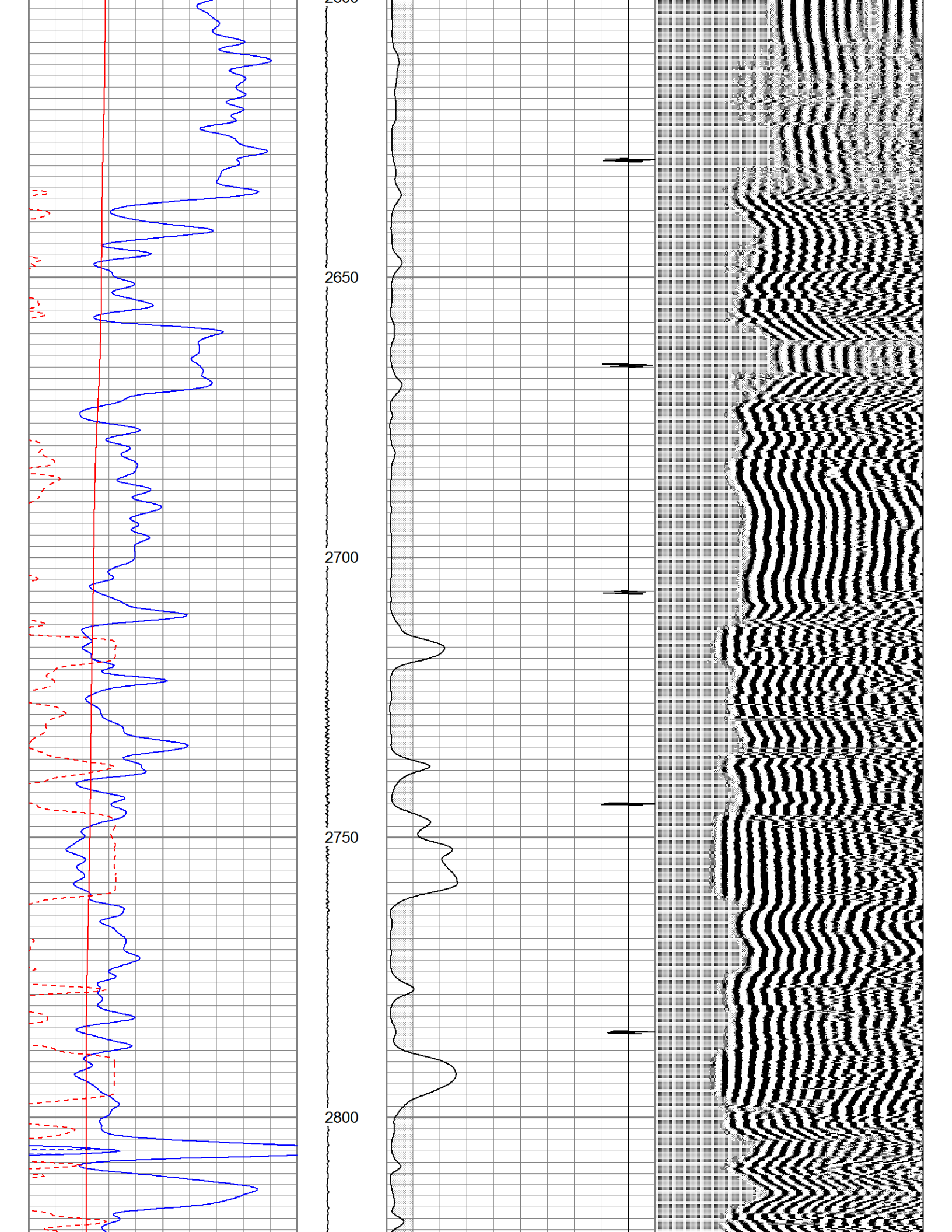
MAIN PASS

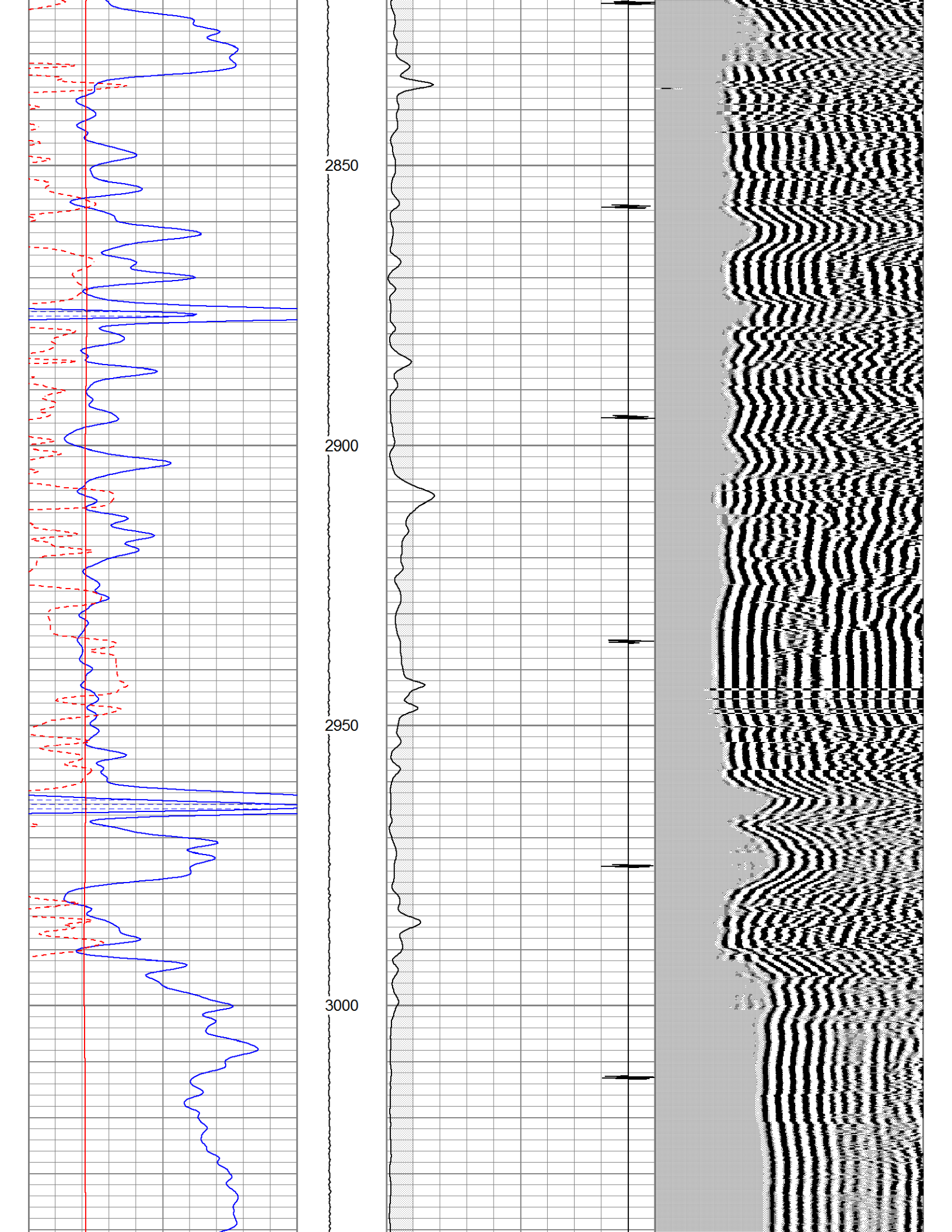
Database File	pebernstorf-janke#11cbl.db
Dataset Pathname	pass3
Presentation Format	cblsec
Dataset Creation	Mon May 16 09:17:03 2022
Charted by	Depth in Feet scaled 1:240

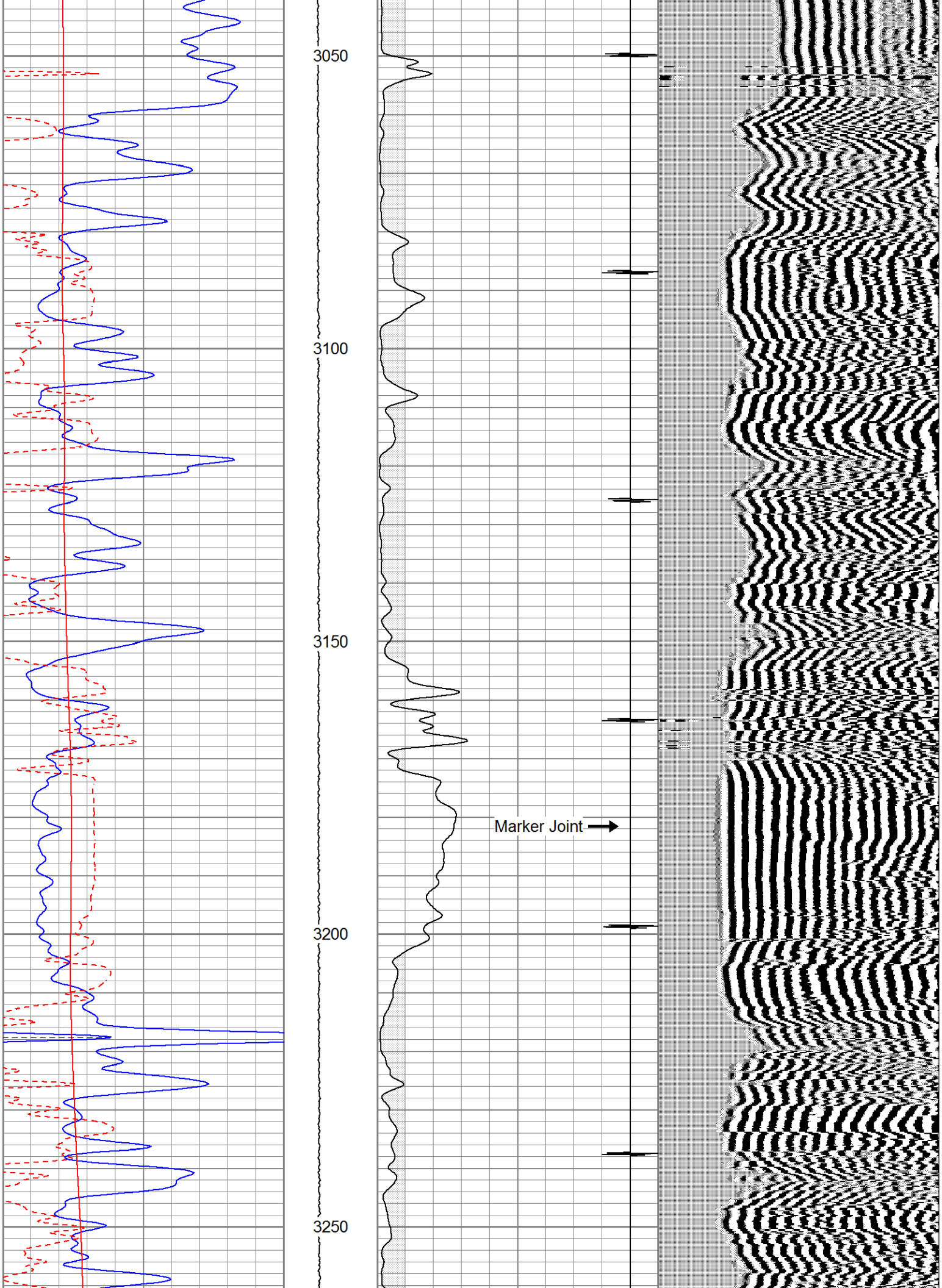
0	GR (GAPI)	150	LTEN	18	CCL	-2	200	VDL (usec) 1200
150	GR (GAPI)	300	(lb)	0	AMP3 (mV)	100		
400	TT3 (usec)	200	-100 2100					
0	DEVI (deg)	10						

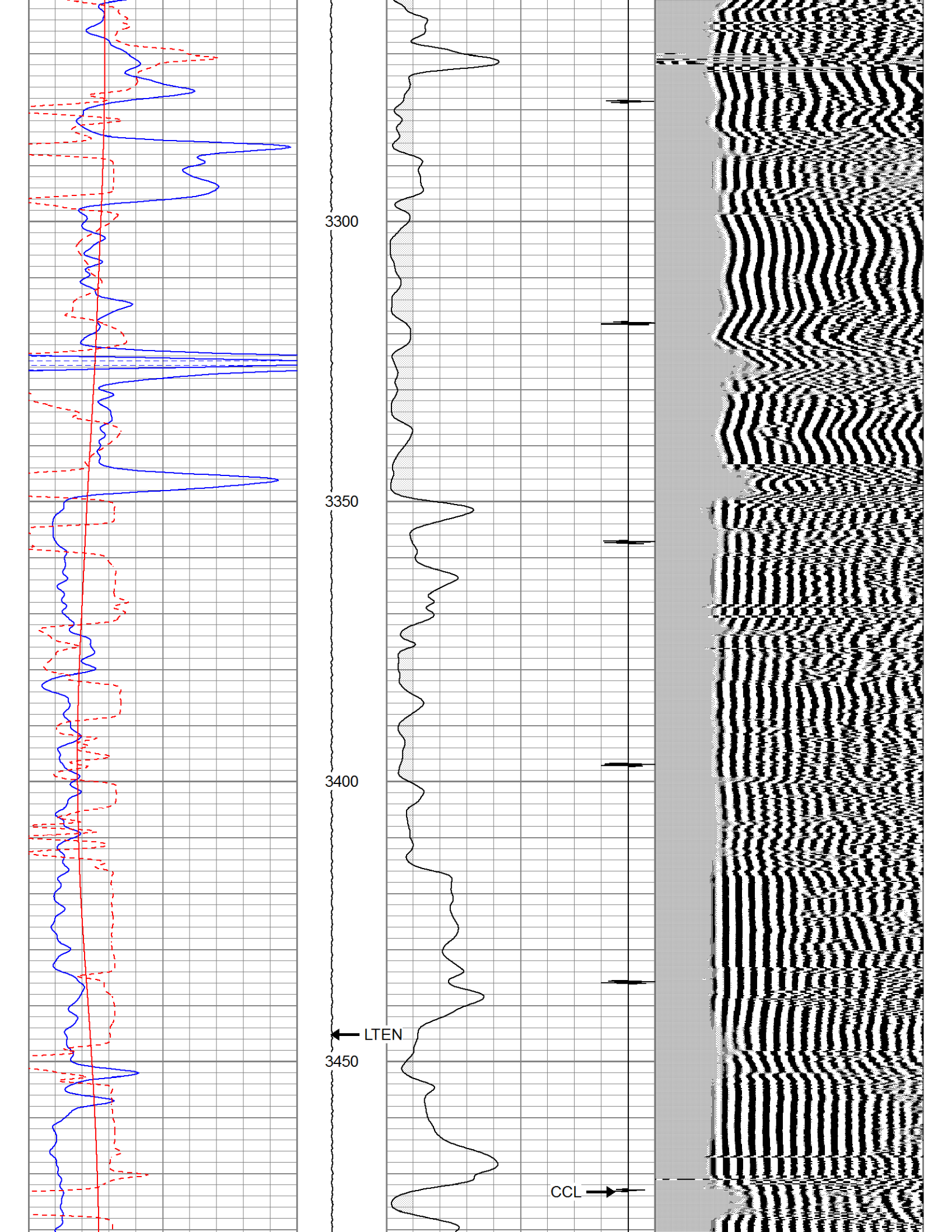


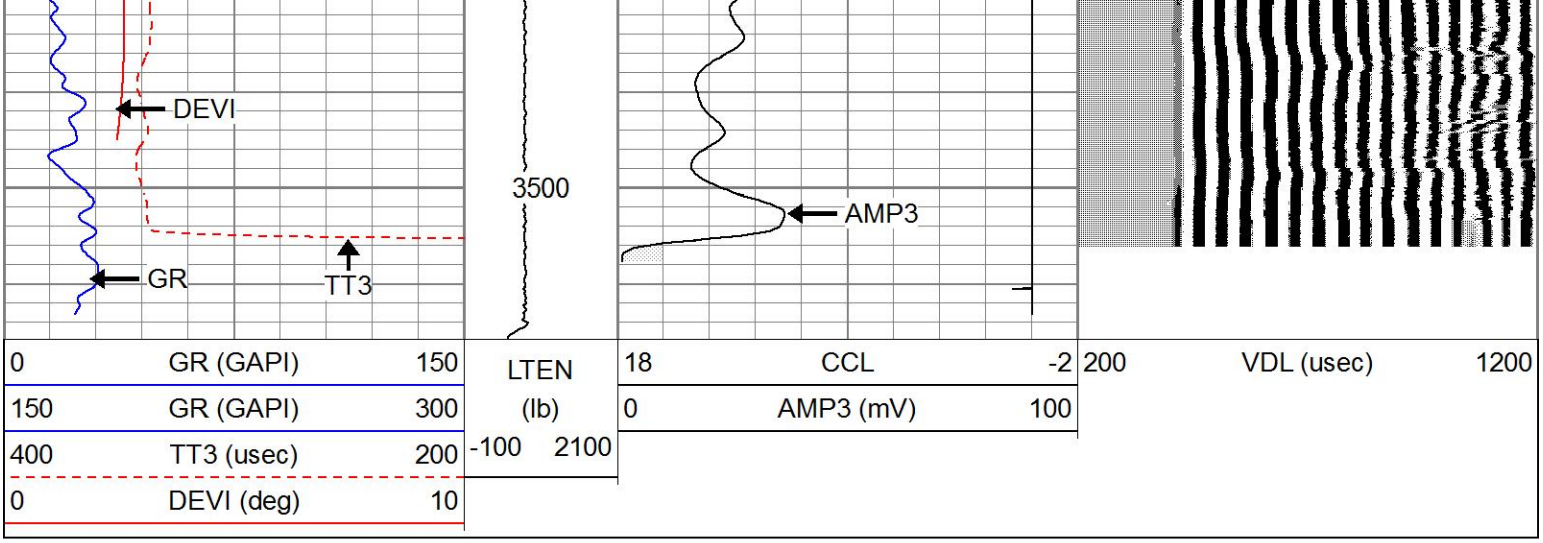

2400
2450
2500
2550
2600


2650
2700
2750
2800


2850
2900
2950
3000


3050
3100
3150
3200
3250
Marker Joint


3300
3350
3400
LTEN
3450
CCL

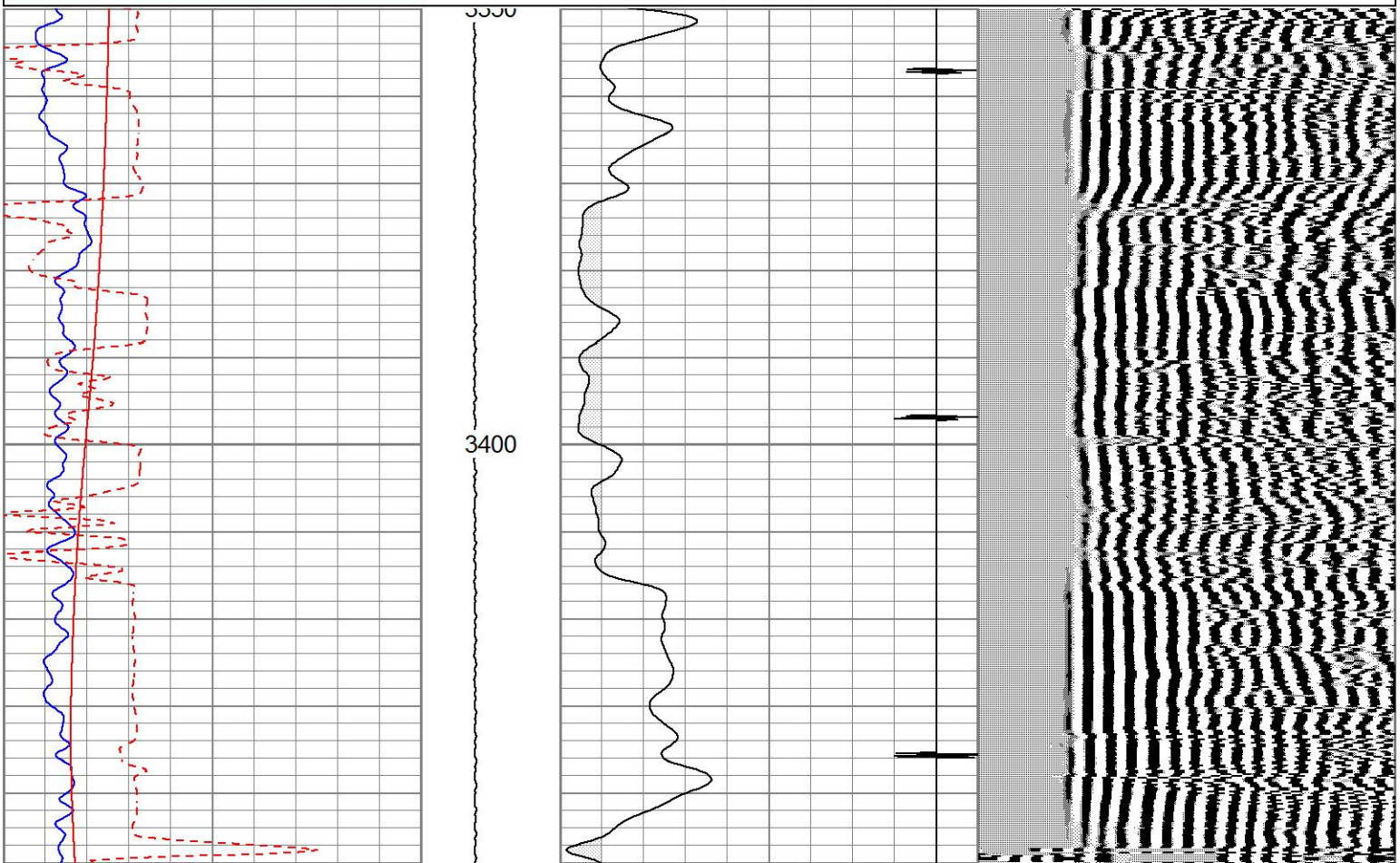


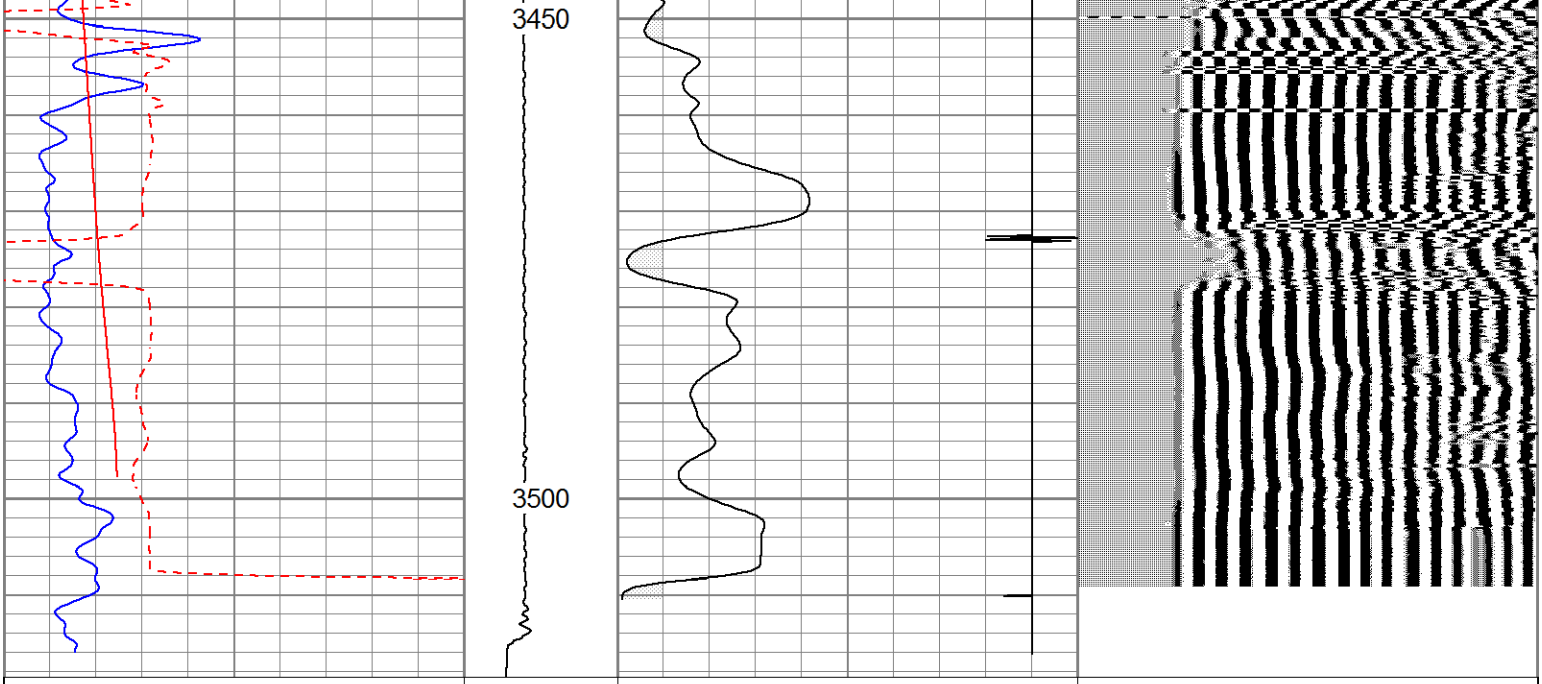
0	GR (GAPI)	150	LTEN	18	CCL	-2	200	VDL (usec) 1200
150	GR (GAPI)	300	(lb)	0	AMP3 (mV)	100		
400	TT3 (usec)	200	-100 2100					
0	DEVI (deg)	10						

REPEAT SECTION

Database File	pebernstorf-janke#11cbl.db
Dataset Pathname	pass2
Presentation Format	cblsec
Dataset Creation	Mon May 16 09:04:07 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	AMP3 (mV)	100		
400	TT3 (usec)	200	-100 2100					
0	DEVI (deg)	10						





Calibration Report

Database File	pebernstorf-janke#11cbl.db
Dataset Pathname	pass3
Dataset Creation	Mon May 16 09:17:03 2022

Gamma Ray Calibration Report

Serial Number:	080616	
Tool Model:	275D_INC	
Performed:	Sat Apr 22 13:20:36 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.6000	GAPI/cps

Inclinometer Calibration Report

Performed: Mon Feb 22 09:45:37 2016

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-3560.40	3602.00	-1.00	1.00	gee
Y Accelerometer	-3645.40	3546.20	-1.00	1.00	gee
Z Accelerometer	6.60	3581.20	0.00	1.00	gee

Segmented Cement Bond Log Calibration Report

Serial Number:	080321
Tool Model:	Probe

Calibration Casing Diameter:	5.500	in
Calibration Depth:	1921.908	ft

Master Calibration, performed Mon May 16 08:36:51 2022:

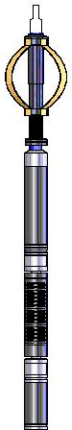
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	1.035	1.000	71.921	68.658	0.869
CAL	0.002	1.156				
5'	0.002	1.066	1.000	71.921	66.650	0.841
SUM						
S1	0.002	1.031	0.000	72.000	70.030	-0.167
S2	0.002	1.153	0.000	72.000	62.547	-0.133
S3	0.002	1.135	0.000	72.000	63.533	-0.140
S4	0.002	1.083	0.000	72.000	66.595	-0.146
S5	0.002	1.027	0.000	72.000	70.259	-0.147
S6	0.002	0.954	0.000	72.000	75.652	-0.170
S7	0.002	0.897	0.000	72.000	80.485	-0.159
S8	0.002	0.960	0.000	72.000	75.114	-0.141

Internal Reference Calibration, performed Mon May 16 08:48:47 2022:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.003	1.149	0.002	1.156	1.007	-0.000

Air Zero Calibration, performed Mon May 16 08:41:19 2022:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.002	0.000	0.000
5'	0.002	0.000	0.001
SUM			
S1	0.002	0.000	0.001
S2	0.002	0.000	0.000
S3	0.002	0.000	0.001
S4	0.002	0.000	0.001
S5	0.002	0.000	0.000
S6	0.002	0.000	0.001
S7	0.002	0.000	0.000
S8	0.002	0.000	0.000

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			CHD-sdschd	0.75	1.44	3.00
			CENT-275 2 3/4" Centralizer	2.94	2.75	10.00
WVFS8	11.63					
WVFS7	11.63					
WVFS6	11.63					
WVFS5	11.63					
WVFS4	11.63					
WVFS3	11.63		RBT-Probe (080321) Prototype Probe Radii Bond Tool with Digital Telemetry	8.33	2.75	90.00
WVFS2	11.63					
WVFS1	11.63					
WVFCAL	11.63					

WVF CAL	11.63					
WVF3FT	11.63					
WVF5FT	10.63		CENT-275 2 3/4" Centralizer	2.94	2.75	10.00
HEADVOLT	7.44					
CCL	3.50					
ACCZ	1.83					
ACCY	1.83		GR-275D_INC (080616) 2-3/4" GR-CCL with Inclination	4.50	2.75	
ACCX	1.83					
GR	0.83					

Dataset:	pebernstorf-janke#11cbl.db: field/well/run1/pass3
Total length:	19.46 ft
Total weight:	113.00 lb
O.D.:	2.75 in