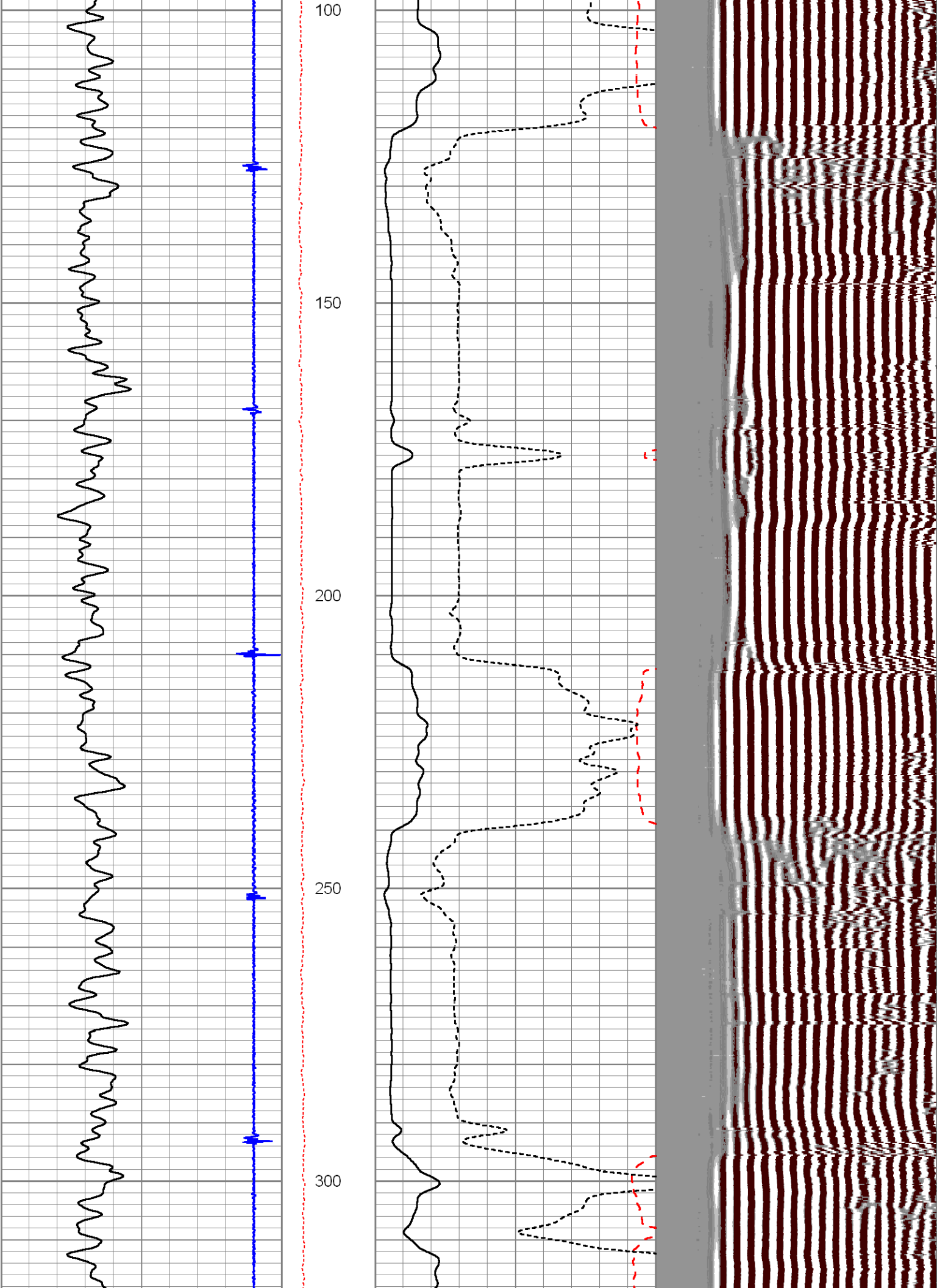


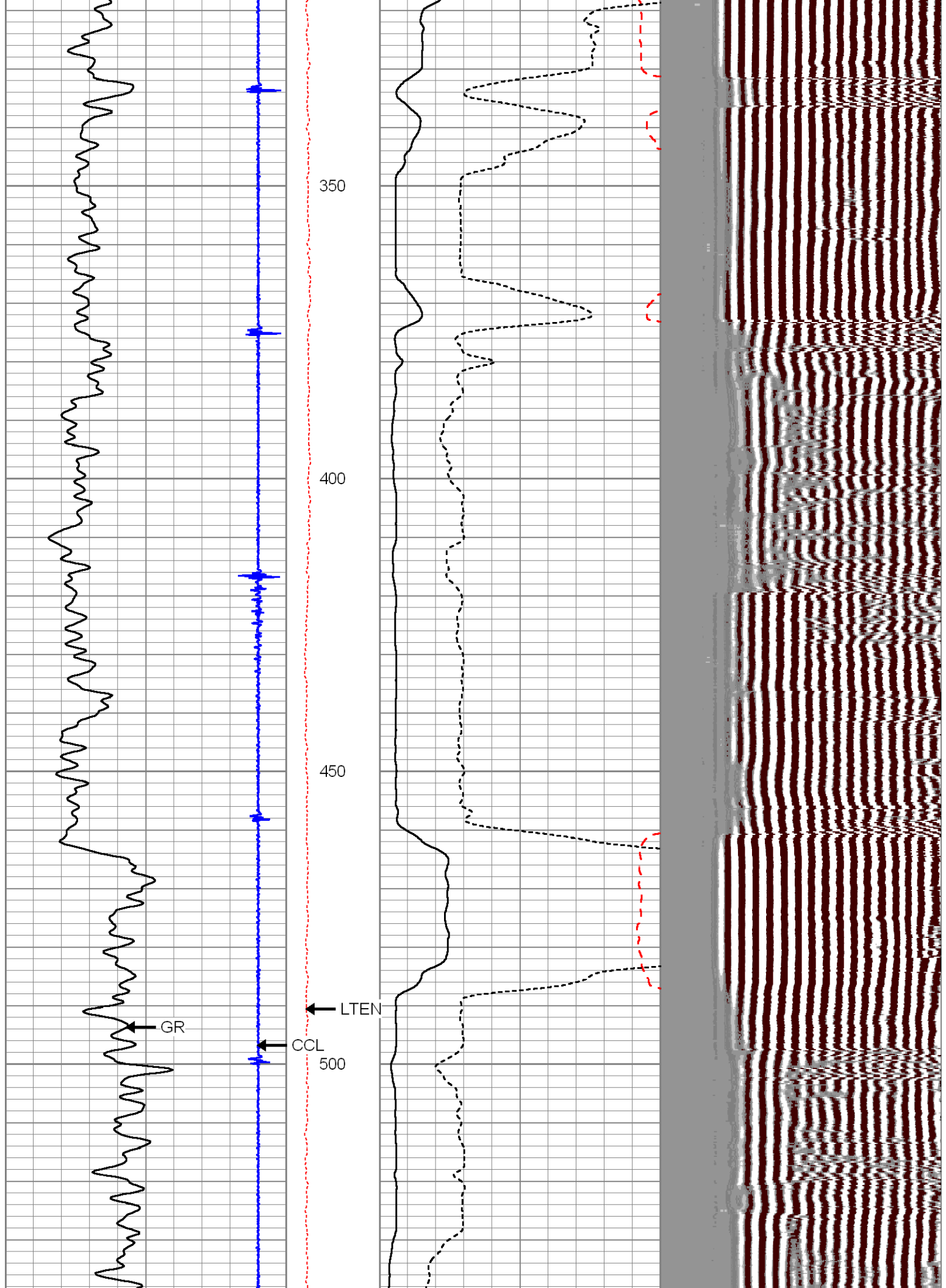
CEMENT BOND LOG

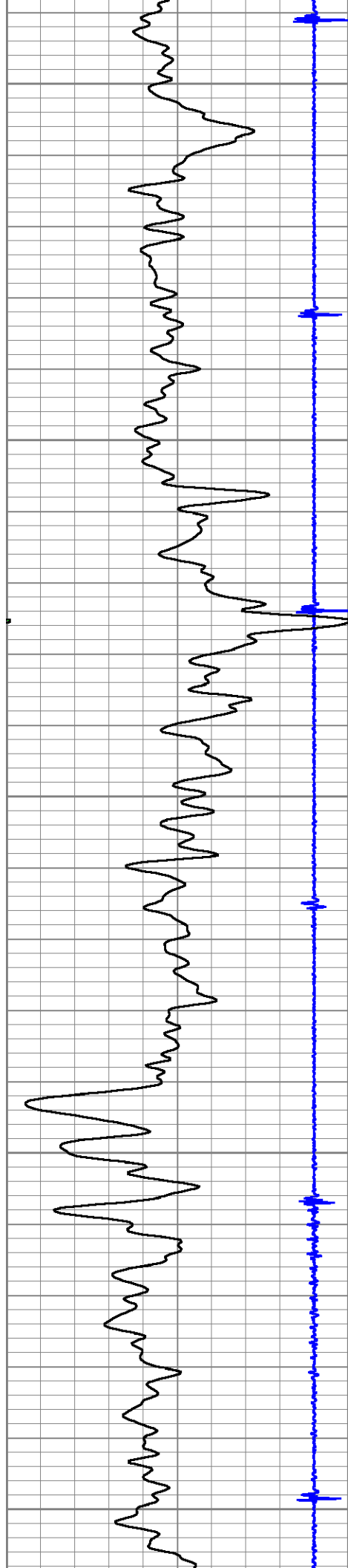
SCALE 1:240

CORRELATED TO HES DENSITY/NEUTRON LOG DATED: 05 AUG 2010.
INTERNAL TOOL CALIBRATION PERFORMED. (LACK OF FREE PIPE)
MARKER JOINT @ 2286' - 2296.5'
HES CREW: HUMISTON, JAIME.

Service Ticket No.	7575634	API No.	15-081-21713	PGM Ver	WARRIOR 7.0
The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client					
EQUIPMENT DATA					
RCBL		GAMMA RAY		CCL	
Run No.	ONE	Run No.	ONE	Run No.	ONE







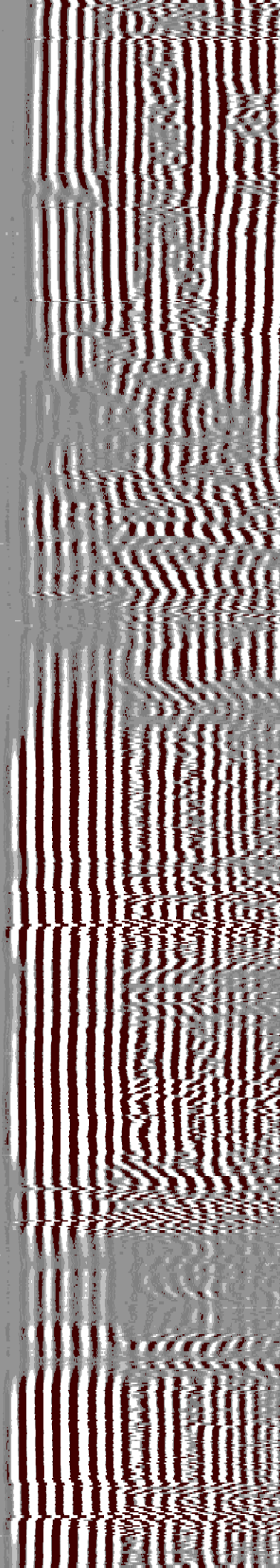
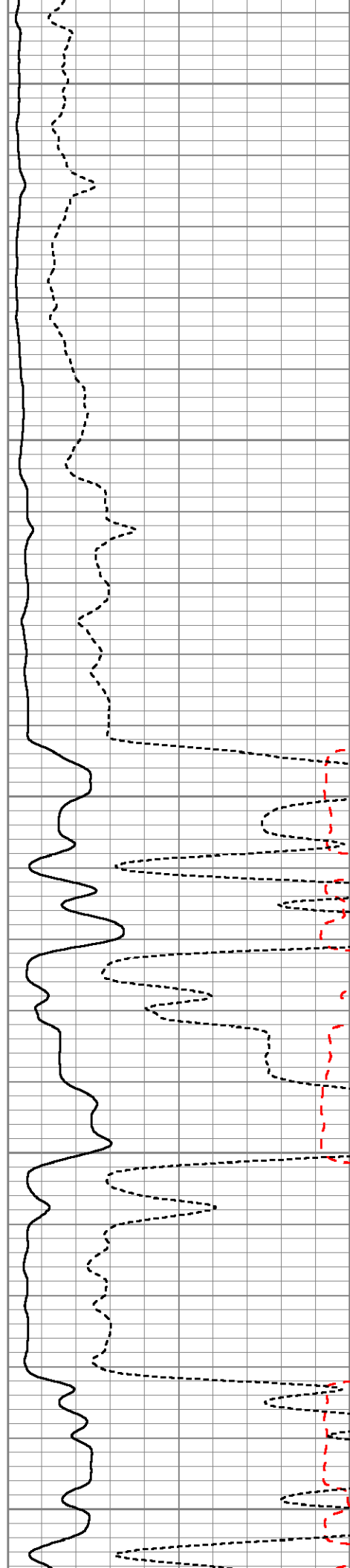
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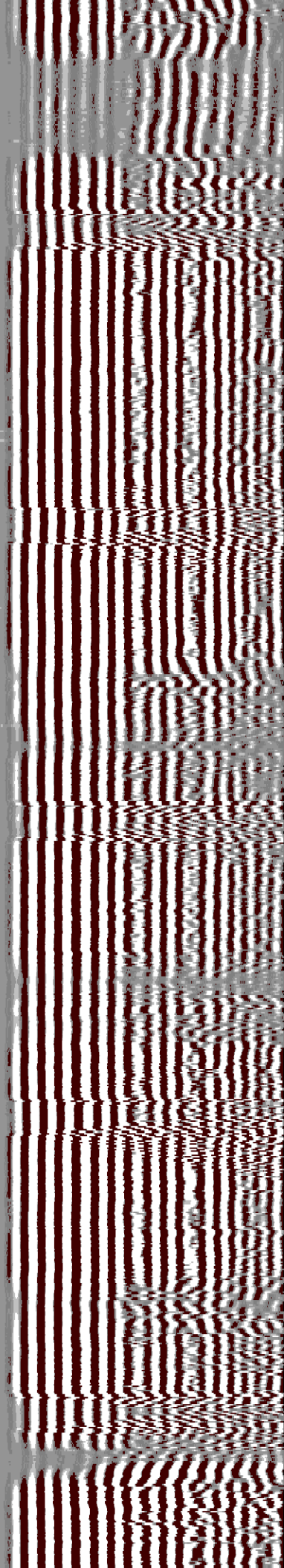
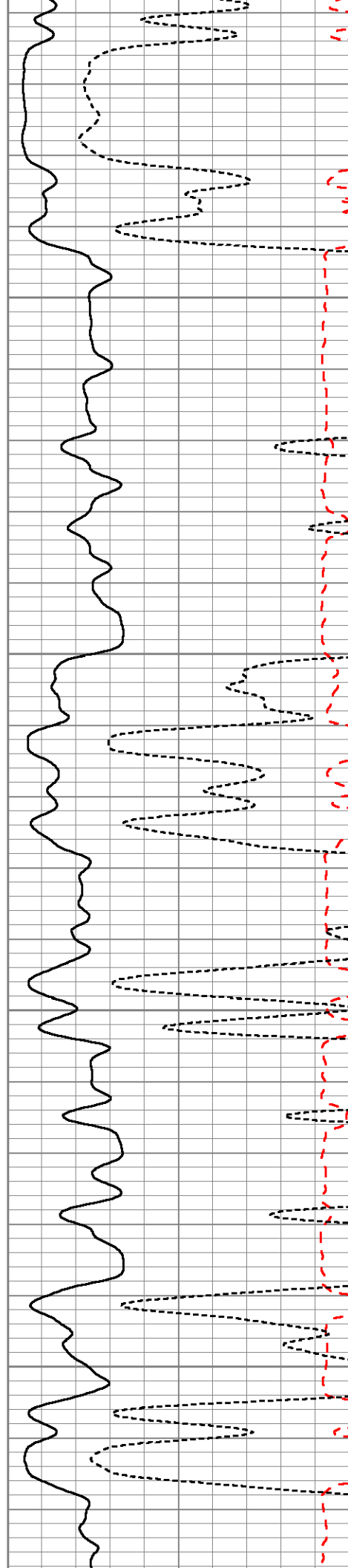
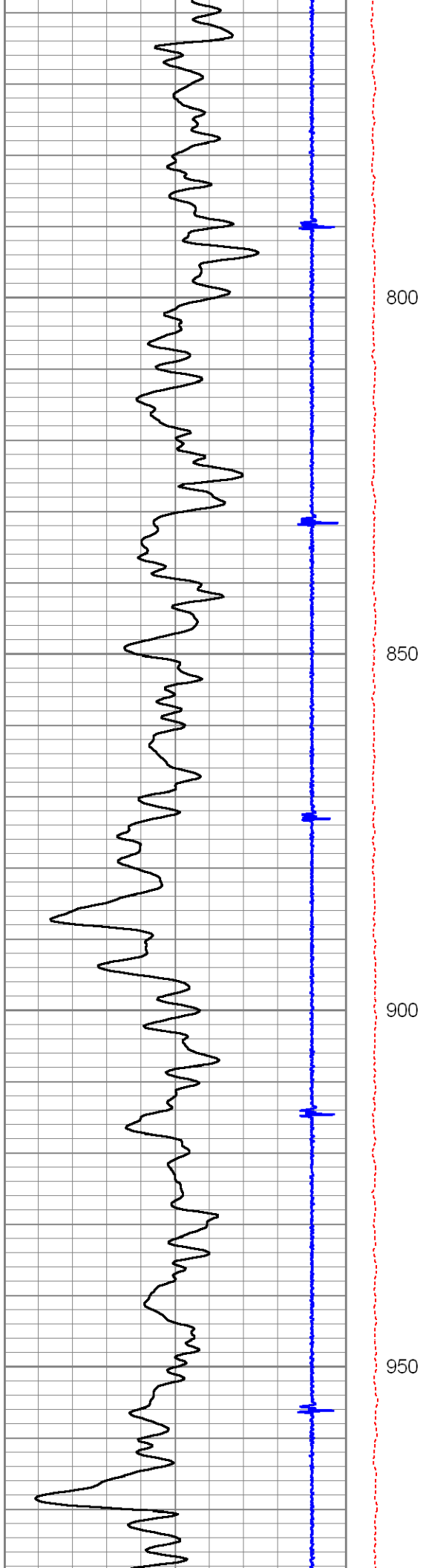
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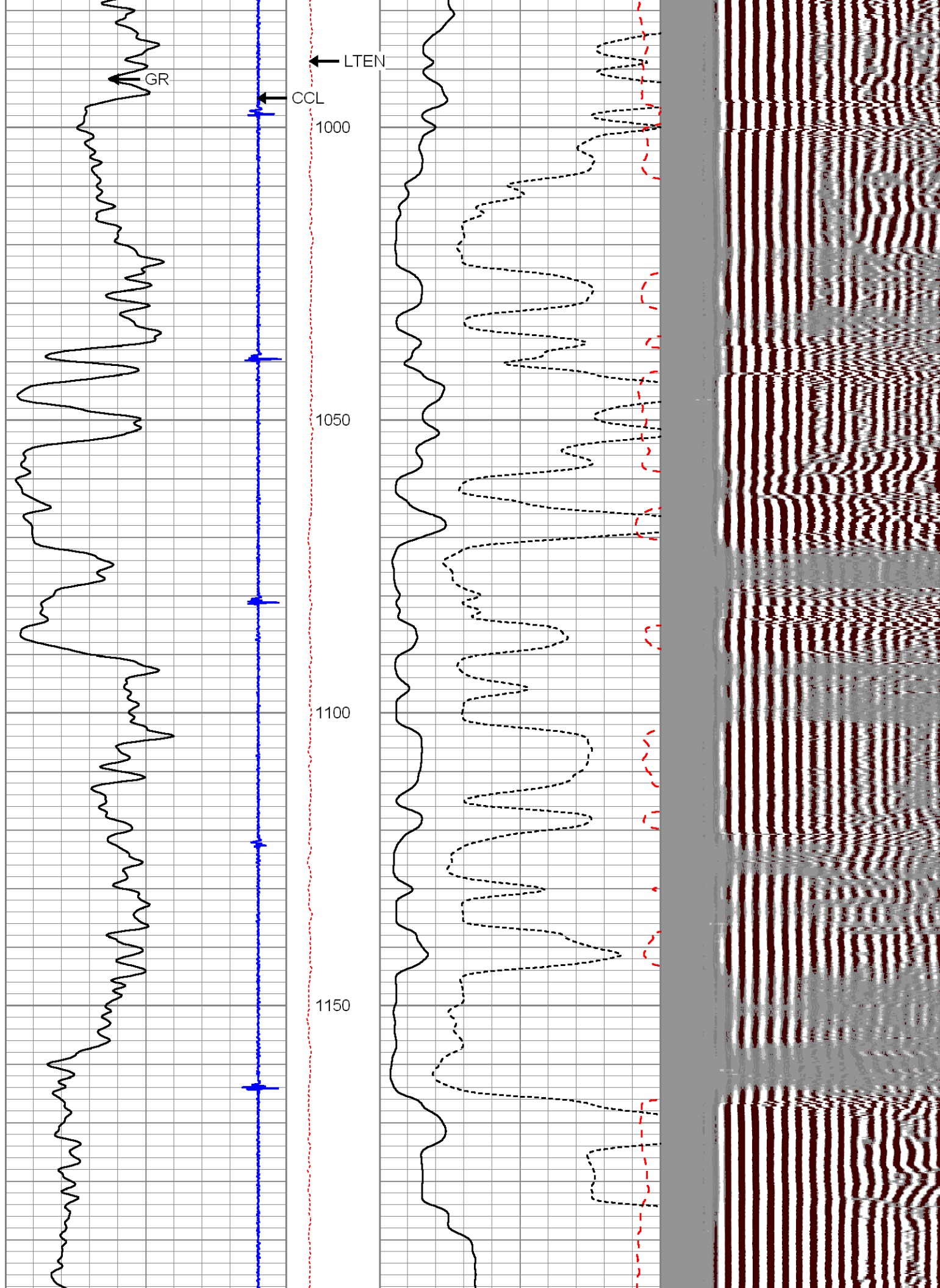
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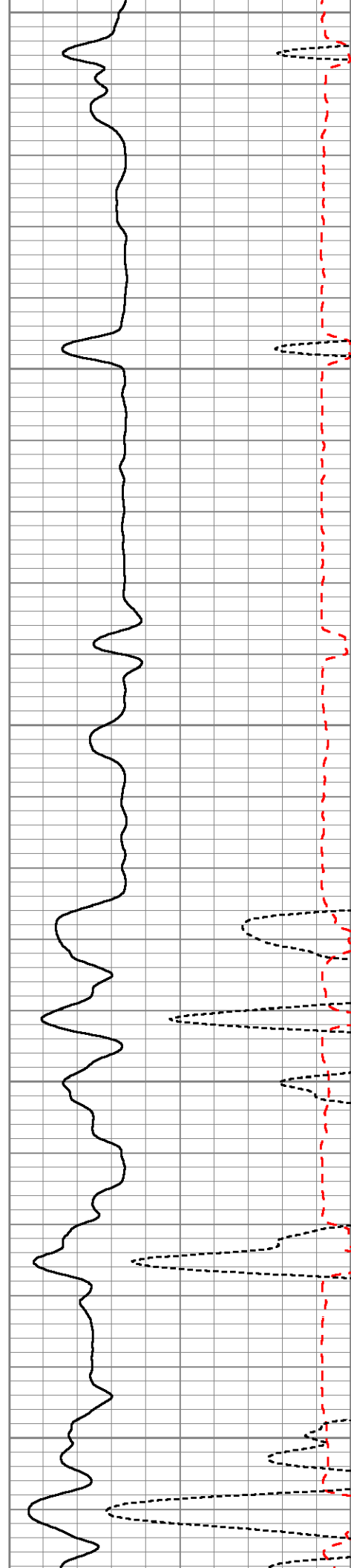
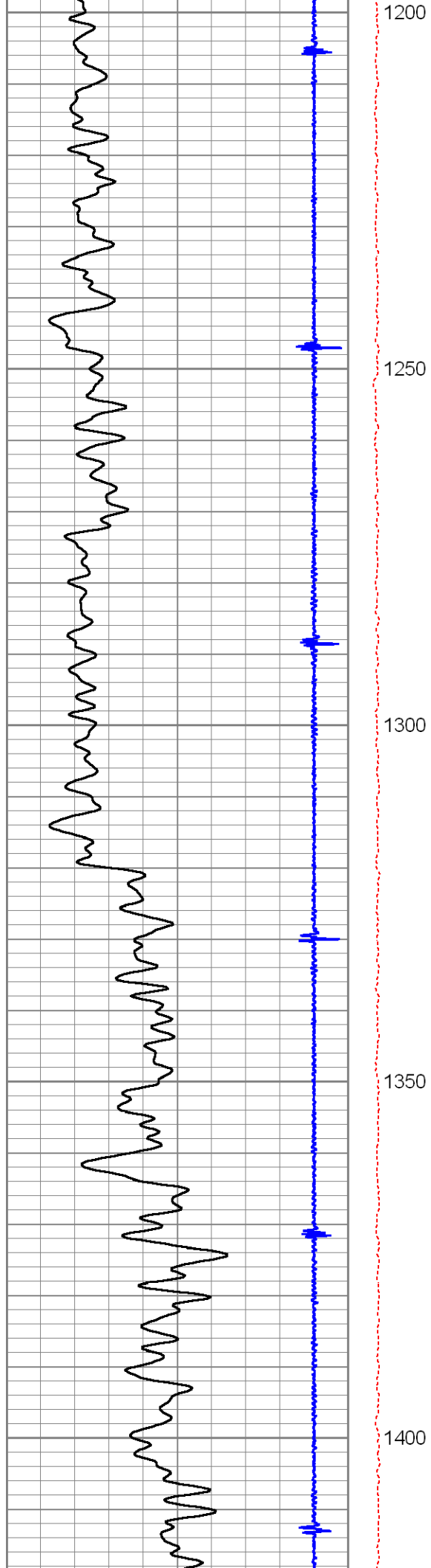
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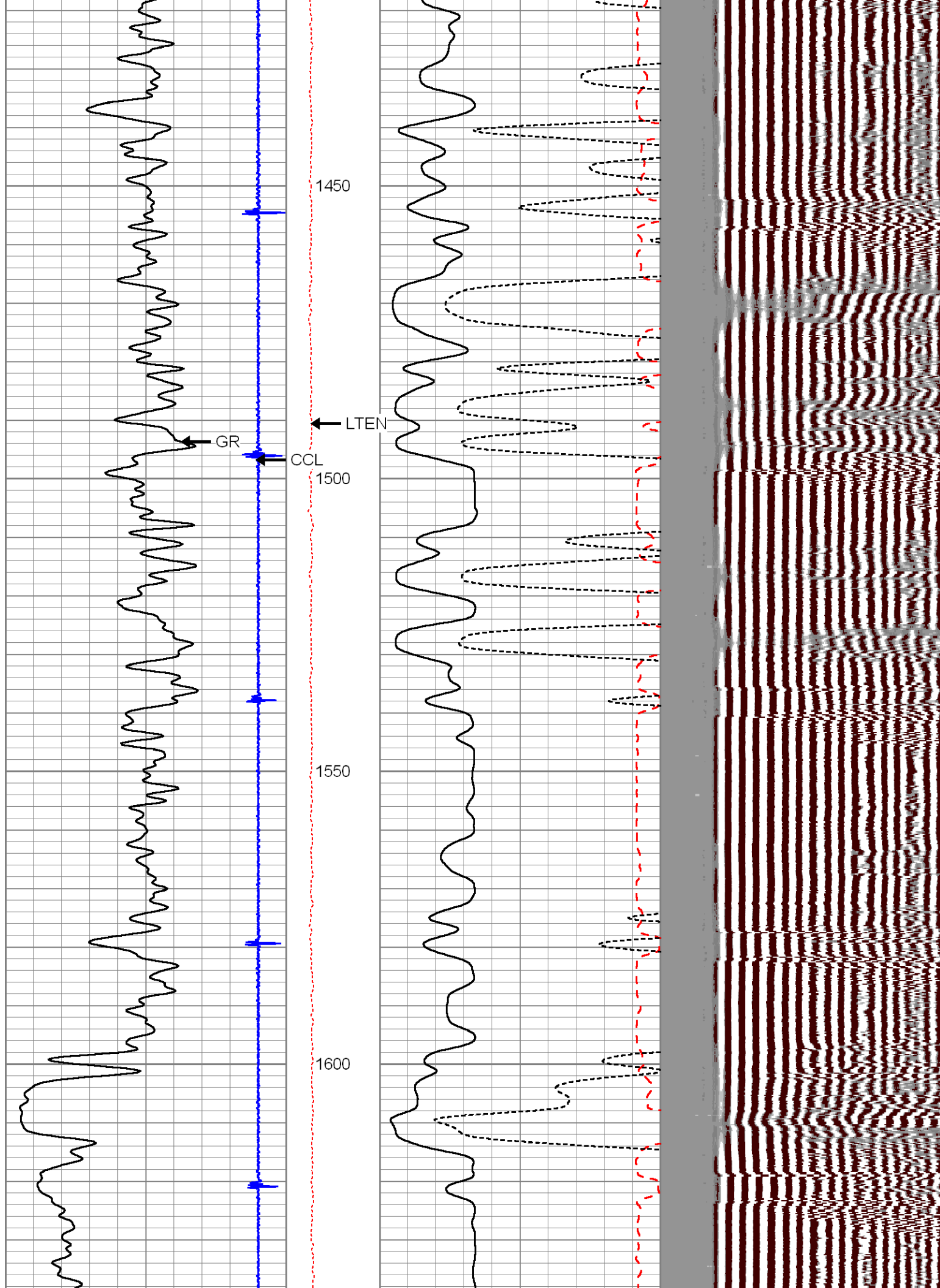
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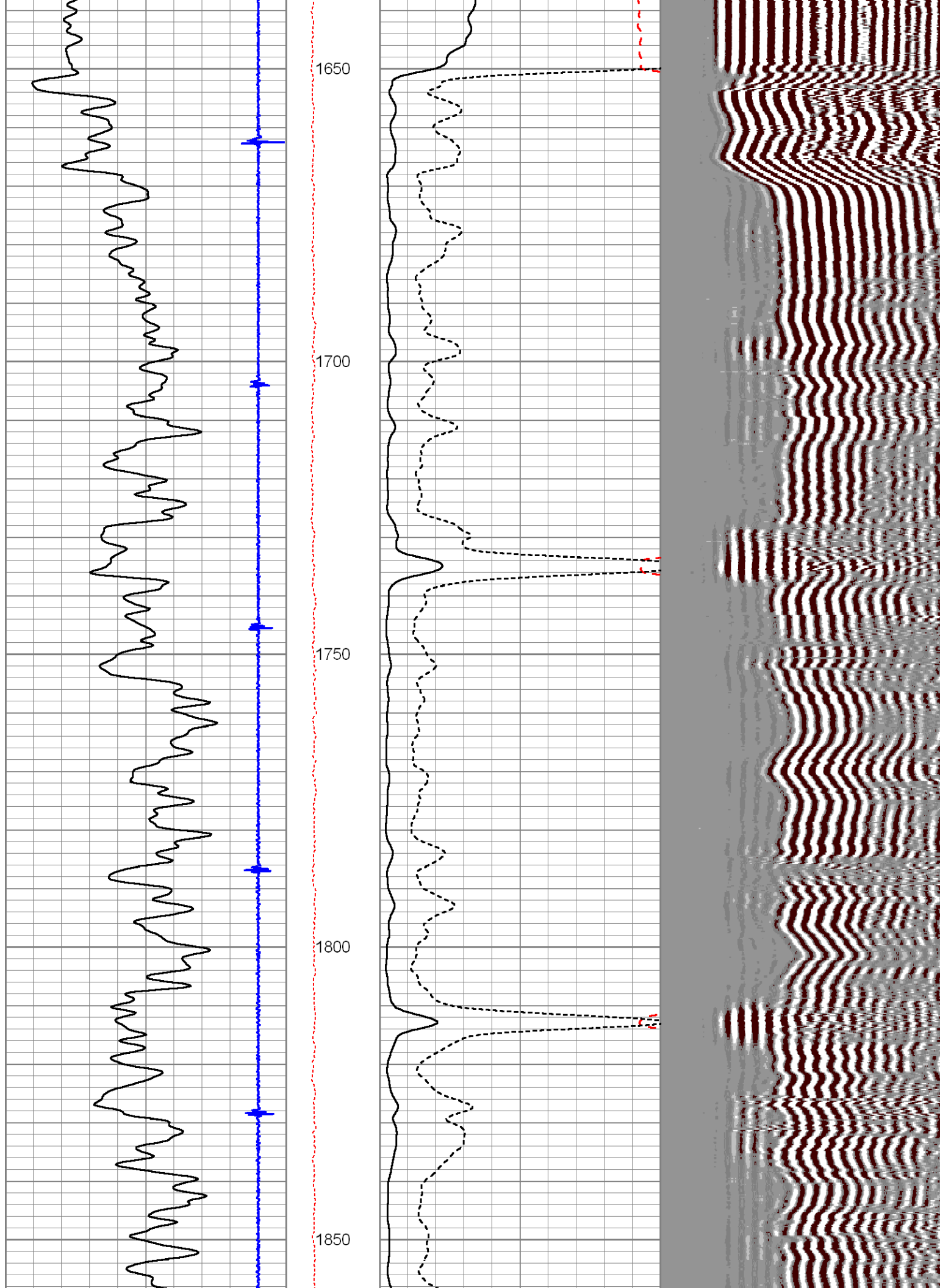


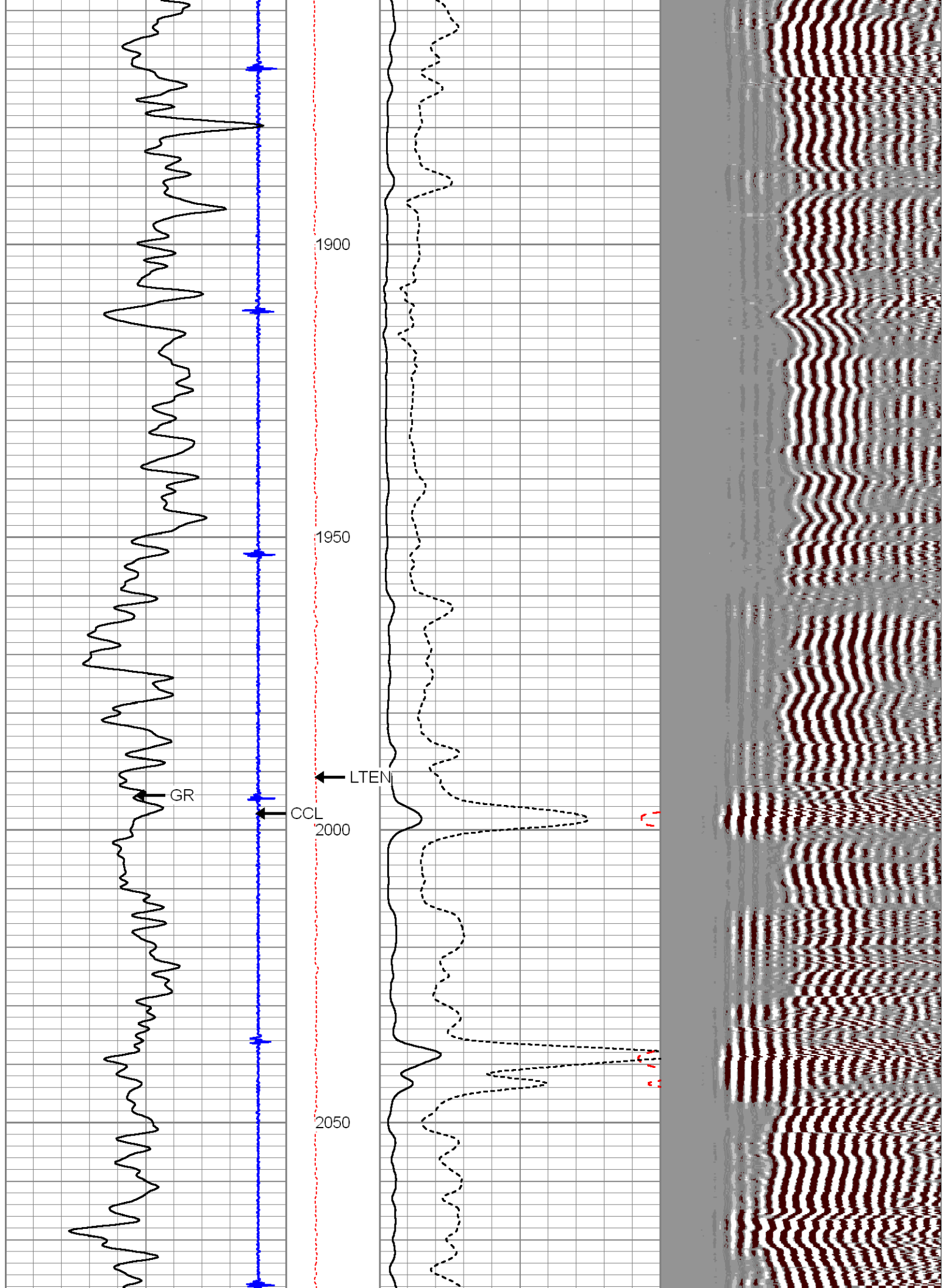


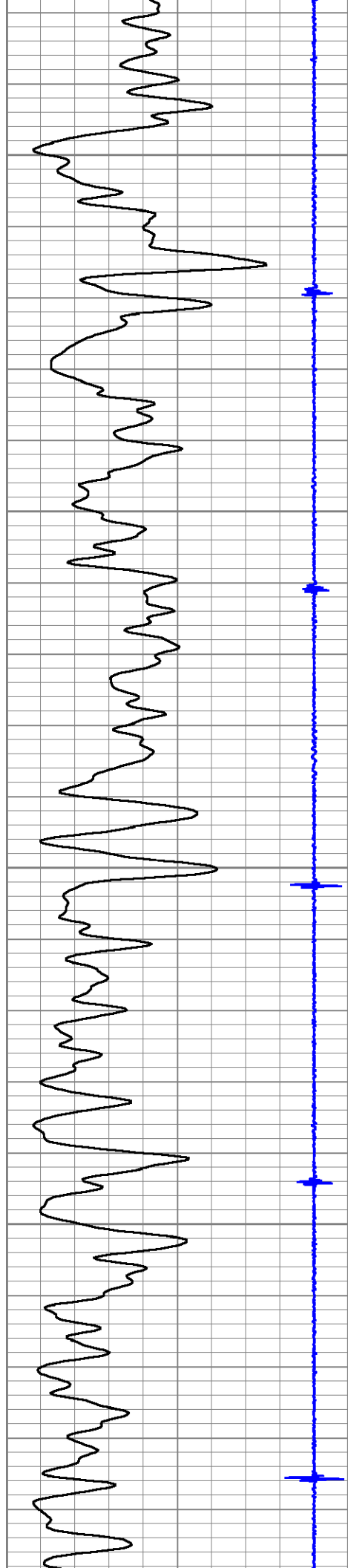










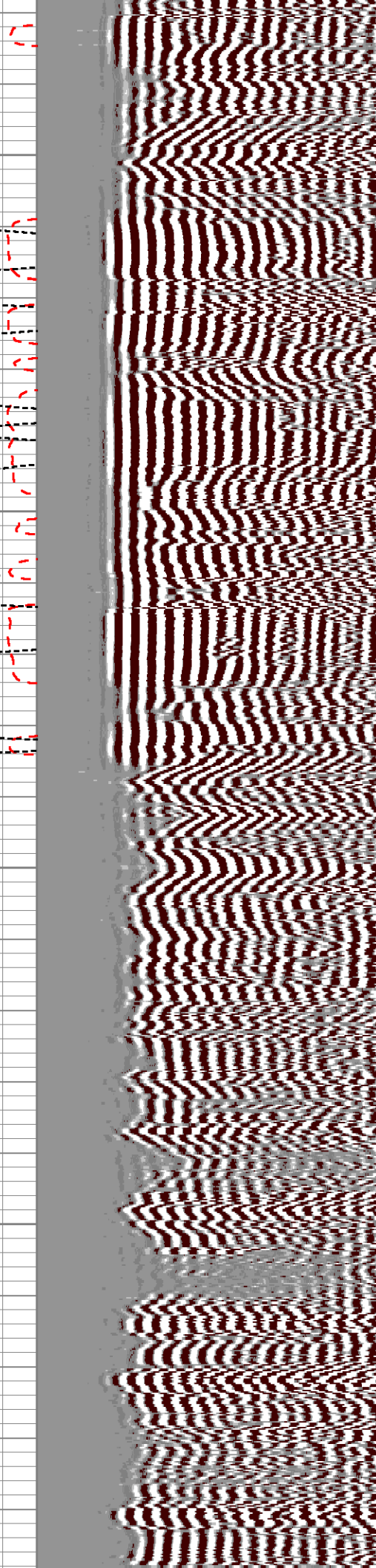
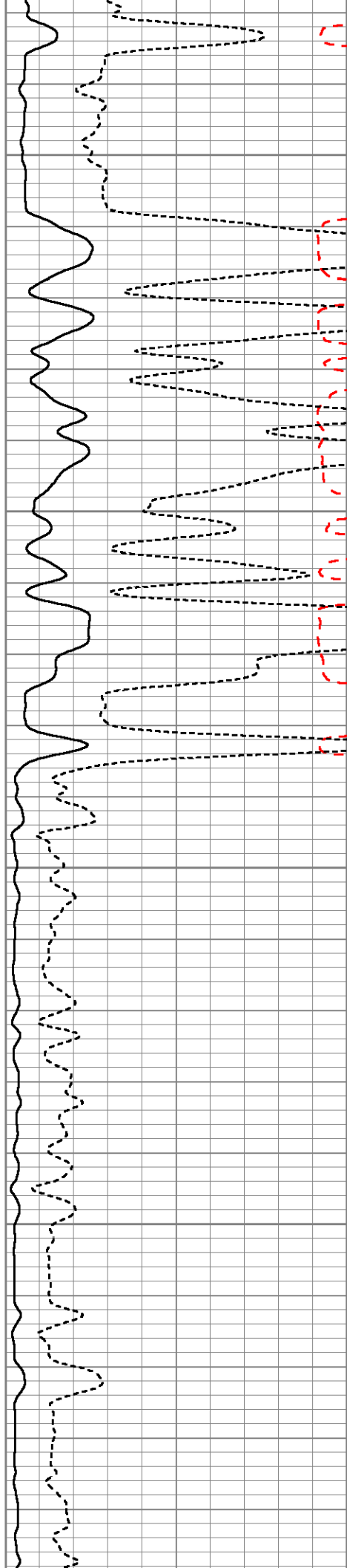


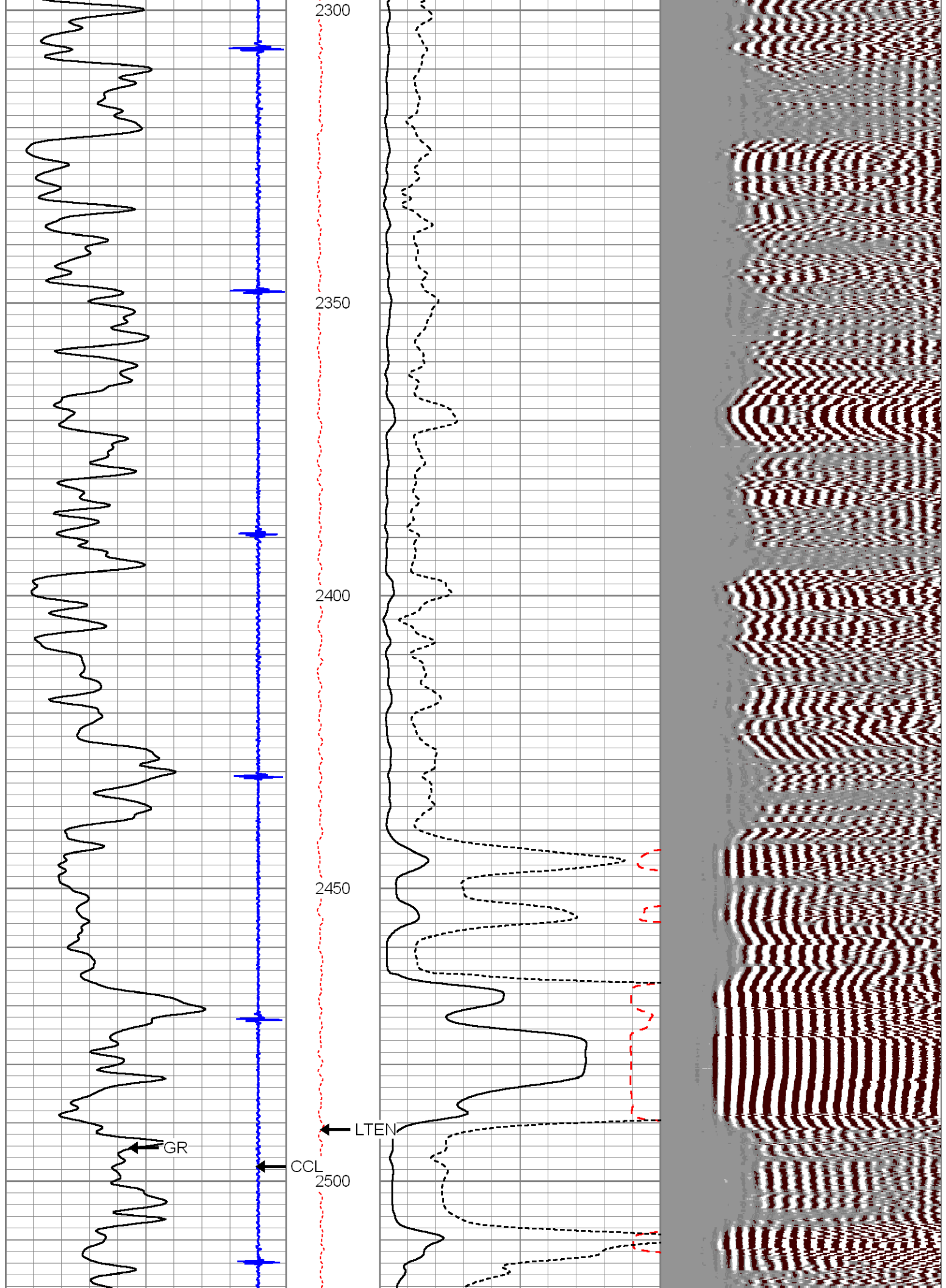
2100

2150

2200

2250





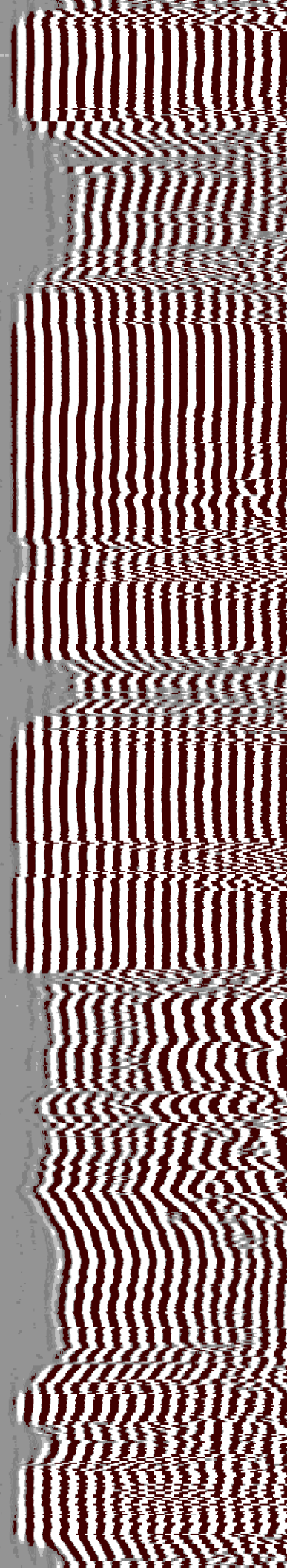
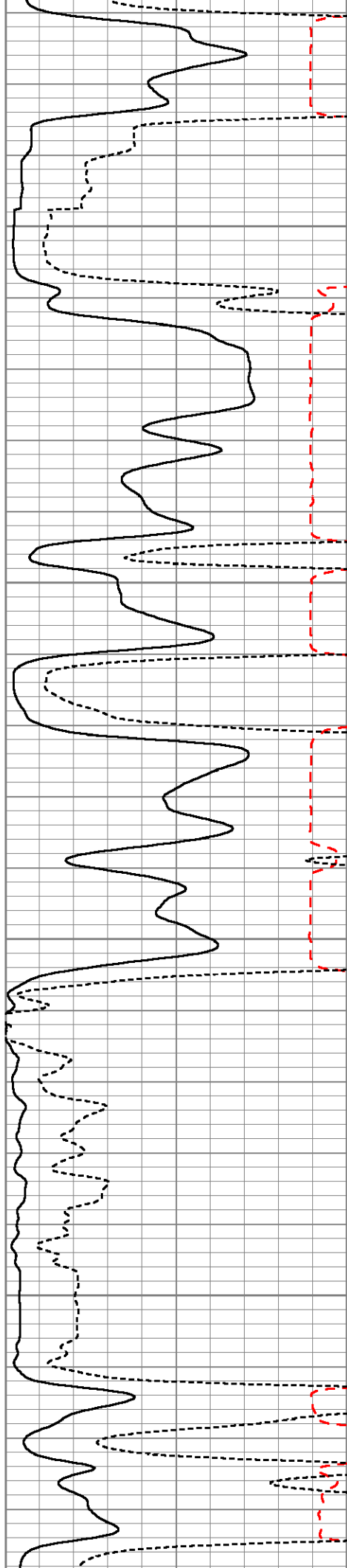


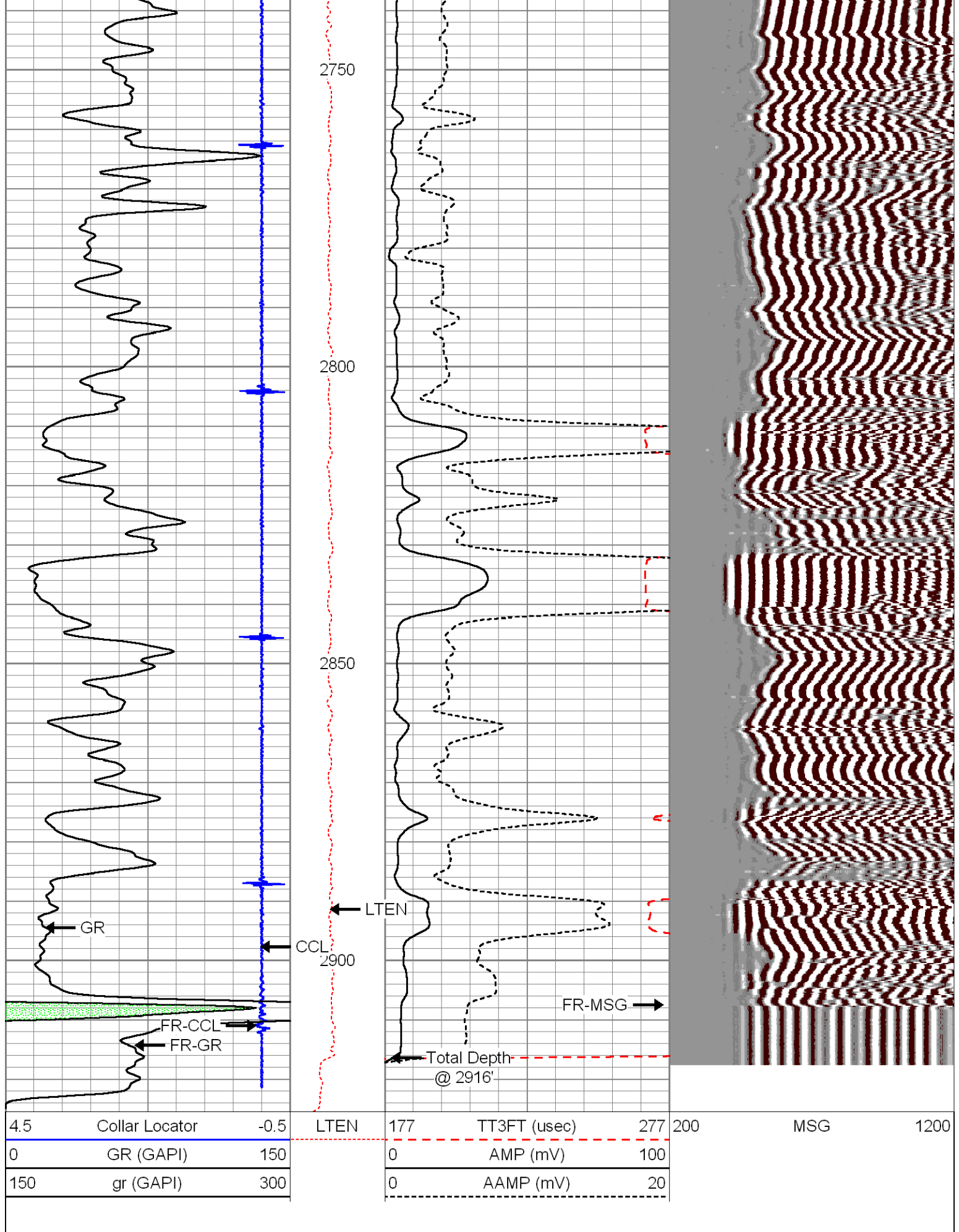
2550

2600

2650

2700

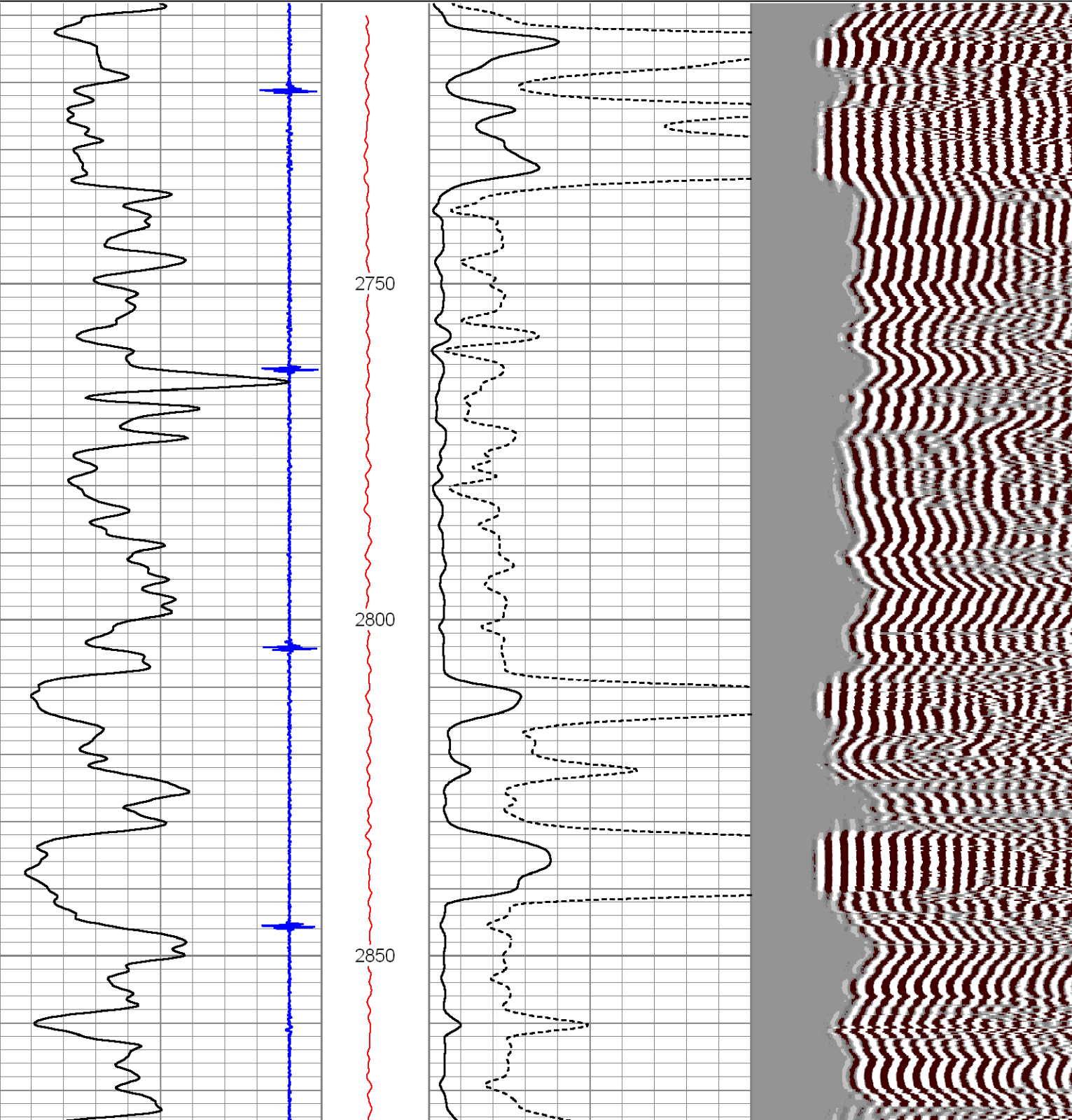


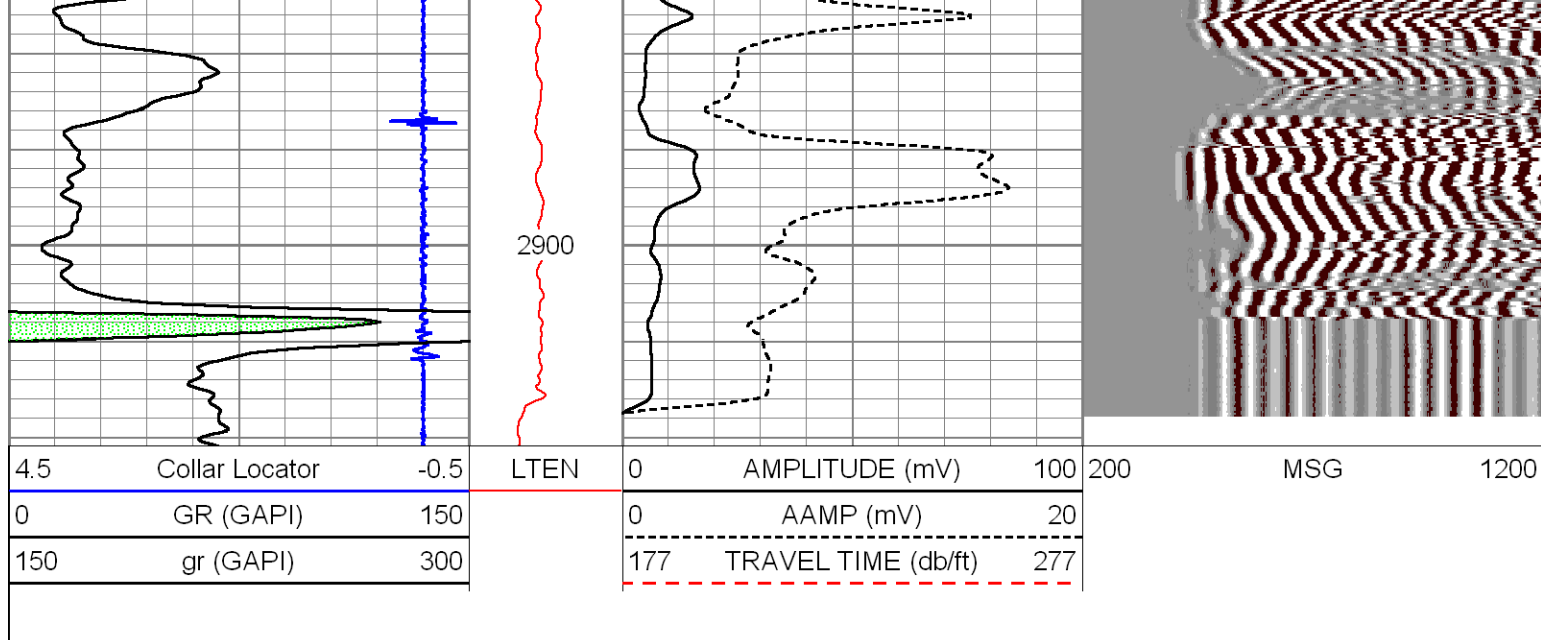


REPEAT SECTION

Database File: pioneer_evans_cbl.db
Dataset Pathname: pass1
Presentation Format: cbl2
Dataset Creation: Wed Aug 18 06:59:52 2010 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

4.5	Collar Locator	-0.5	LTEN	0	AMPLITUDE (mV)	100	200	MSG	1200
0	GR (GAPI)	150		0	AAMP (mV)	20			
150	gr (GAPI)	300		177	TRAVEL TIME (db/ft)	277			





Calibration Report						
Database File:	pioneer_evans_cbl.db					
Dataset Pathname:	pass3					
Dataset Creation:	Wed Aug 18 07:18:21 2010 by Log Halliburton Casedho					
Gamma Ray Calibration Report						
Type / Serial:		Probe275dig / 060633				
SHOP CALIBRATION		Wed Aug 18 06:36:25 2010				
	Counts/Sec.	Gain	Offset	Jig	Units	
Background	66.9				cps	
Calibrator	376.3				cps	
		0.8695			GAPI/cps	
PRIMARY VERIFICATION		Wed Aug 18 06:38:49 2010				
Background	58.2				cps	
Calibrator	326.8				cps	
Difference				268.6	GAPI	
BEFORE SURVEY VERIFICATION						
Background	0.0				cps	
Calibrator	0.0				cps	
Difference				0.0	GAPI	
AFTER SURVEY VERIFICATION						
Background	0.0				cps	
Calibrator	0.0				cps	
Difference				0.0	GAPI	
Segmented Cement Bond Log Calibration Report						
Serial Number:		080640				
Tool Model:		Probe				
Calibration Casing Diameter:		5.500	in			
Calibration Depth:		2578.645	ft			
Master Calibration, performed Wed Aug 18 07:26:05 2010:						
Raw (u)		Calibrated (mV)		Results		

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.026	0.618	0.000	71.921	121.588	-3.176
CAL	-0.003	0.595				
5'	0.029	0.529	0.000	71.921	143.972	-4.206
SUM						
S1	0.009	0.694	0.000	100.000	145.833	-1.262
S2	0.006	0.606	0.000	100.000	166.836	-1.081
S3	0.013	0.537	0.000	100.000	190.840	-2.560
S4	0.015	0.539	0.000	100.000	190.733	-2.831
S5	0.010	0.606	0.000	100.000	167.821	-1.670
S6	0.001	0.628	0.000	100.000	159.542	-0.236
S7	0.003	0.696	0.000	100.000	144.187	-0.396
S8	0.017	0.684	0.000	100.000	149.935	-2.553

Internal Reference Calibration, performed Thu Jul 01 08:00:15 2010:						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.003	0.595	1.000	0.000

Air Zero Calibration, performed Wed Aug 18 06:41:31 2010:						
	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	
S5	0.000		0.000		0.000	
S6	0.000		0.000		0.000	
S7	0.000		0.000		0.000	
S8	0.000		0.000		0.000	

Temperature Calibration Report						
Serial Number:	080640					
Tool Model:	Probe					
Performed:	Mon Jul 26 07:36:36 2010					
	Reference		Reading			
Low Reference:	89.00	degF	101.15	degF		
High Reference:	134.00	degF	144.83	degF		
Gain:	1.03					
Offset:	-15.20					
Delta Spacing	1					

Log Variables

Database:D:\warrior_data\pioneer_evans_cbl.db

Dataset: field/well/run1/pass3

Top - Bottom

CASEWGHT	PPT	MAXAMPL	MINAMPL	MINATTN	CASEOD	PERFS	TDEPTH
lb/ft	usec	mV	mV	db/ft	in		ft
15.5	0	72	0	0.8	5.5	0	2916

BOTTEMP degF 97	BITSIZE in 7.875						
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Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
STNDCH	14.42		STND_CH 1.4375 IN CABLE HEAD	0.92	1.44	1.00
RBT_PRB275	13.50					
TEMP	11.21					
WVF3FT	9.00		RBT_PRB275-Probe (080640) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
WVFCAL	9.00					
WVFS1	9.00					
WVFS2	9.00					
WVFS3	9.00					
WVFS4	9.00					
WVFS5	9.00					
WVFS6	9.00					
WVFS7	9.00					
WVFS8	9.00					
WVF5FT	8.00					
GR_PRB275	4.75					
CCL	3.92					
GR	2.54		GR_PRB275-probe275dig (060633) Probe Digital Gamma CCL	4.75	2.75	57.00

LLMTEN	0.00					
Dataset: pioneer_evans_cbl.db: field/well/run1/pass3 Total Length: 14.42 ft Total Weight: 148.00 lb O.D. 2.75 in						

Company	PIONEER NATURAL RESOURCES				
Well	EVANS 4-25 R				
Field	N/A				
County	GRANT			State	KANSAS
HALLIBURTON	CEMENT BOND LOG SCALE 1:240				