

CEMENT BOND LOG

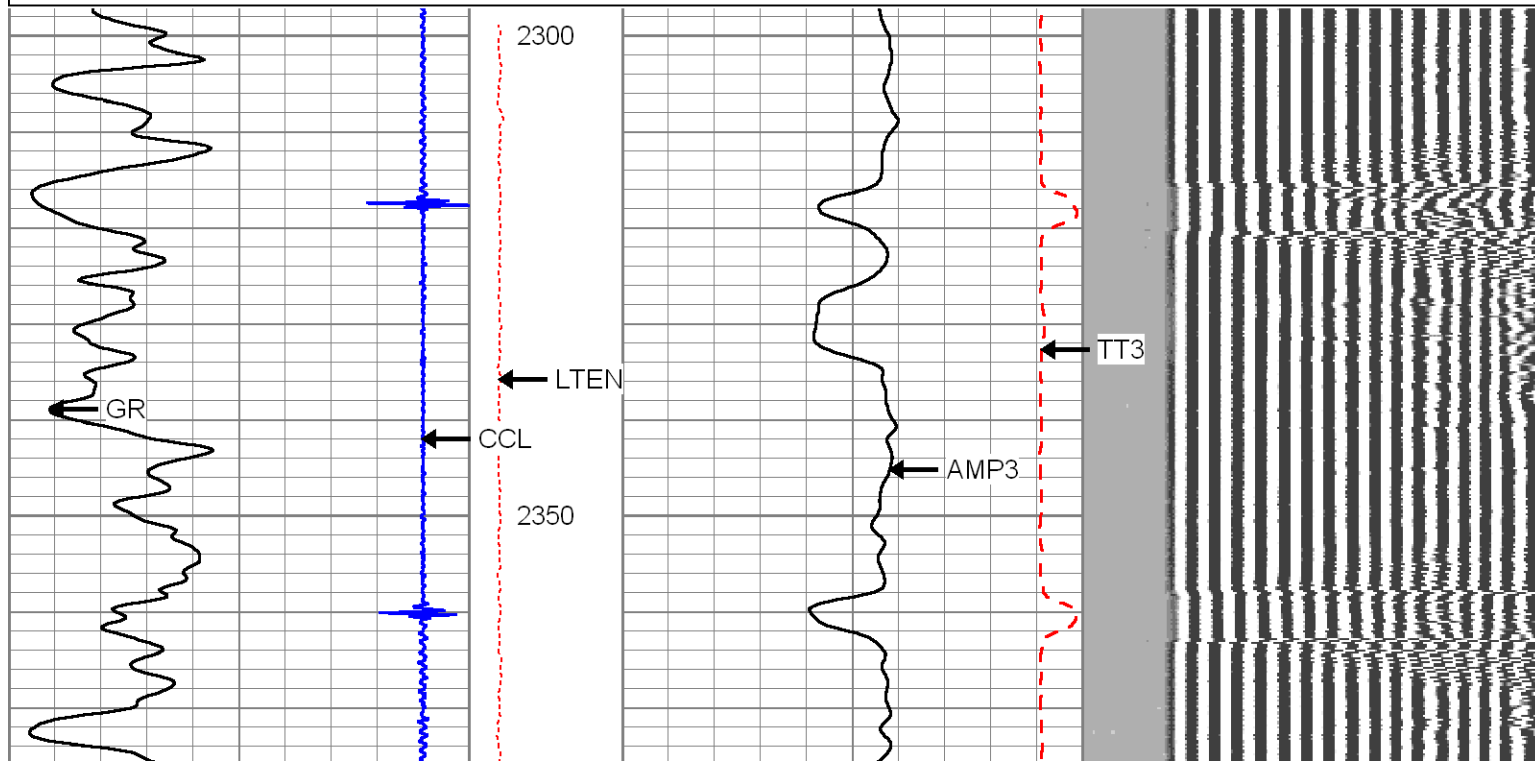
SCALE 1:240

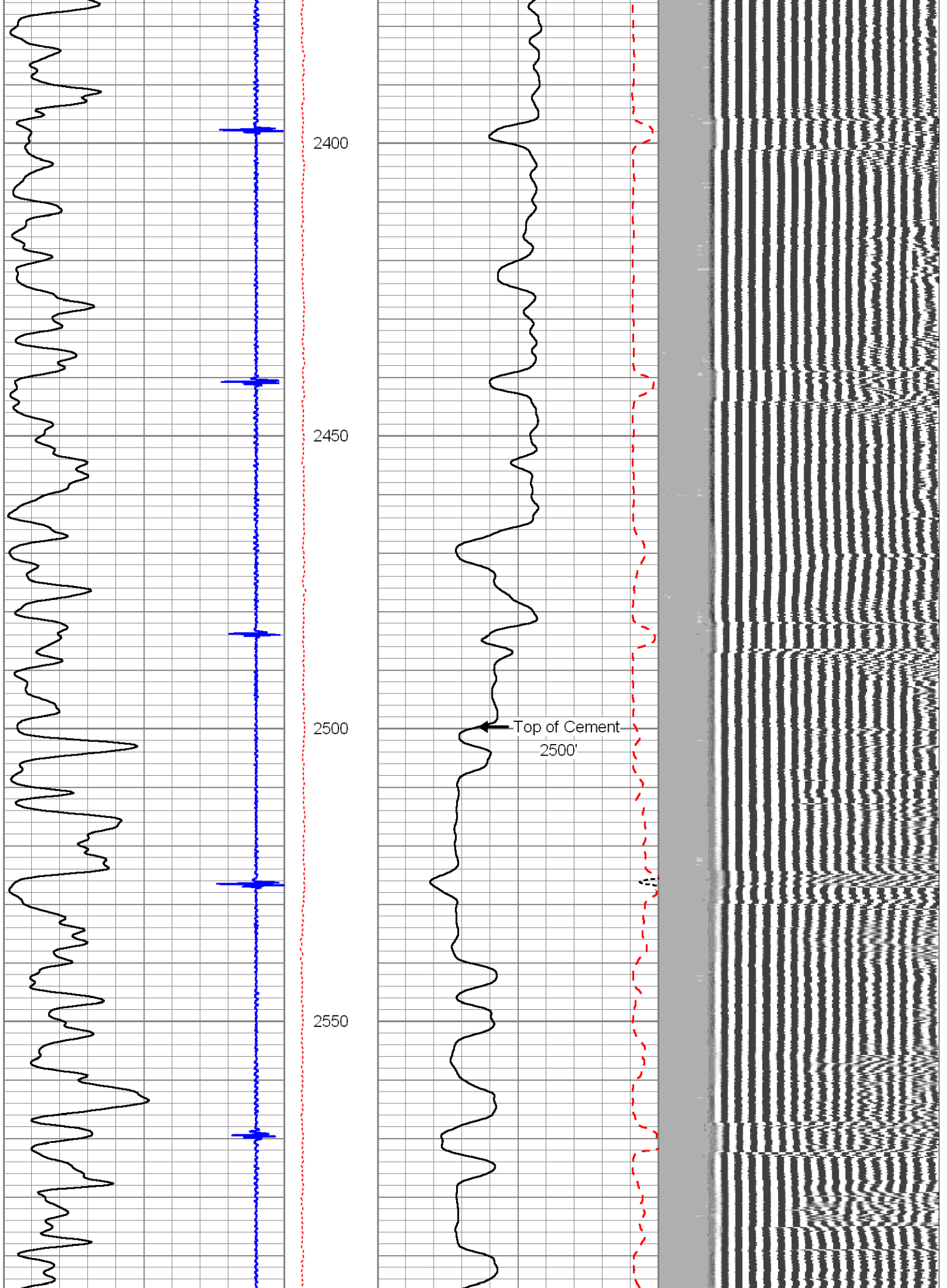
<<< Fold Here >>>
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.
Comments
CORRELATED TO HES RESISTIVITY LOG DATED 29 JUL 2010.
CORRECTED 4.5'.
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICE ANY QUESTION OR COMMENTS PLEASE CALL 1-620-624-8123
YOUR HALLIBURTON CREW TODAY WAS: GONZALEZ, McQUITTY.

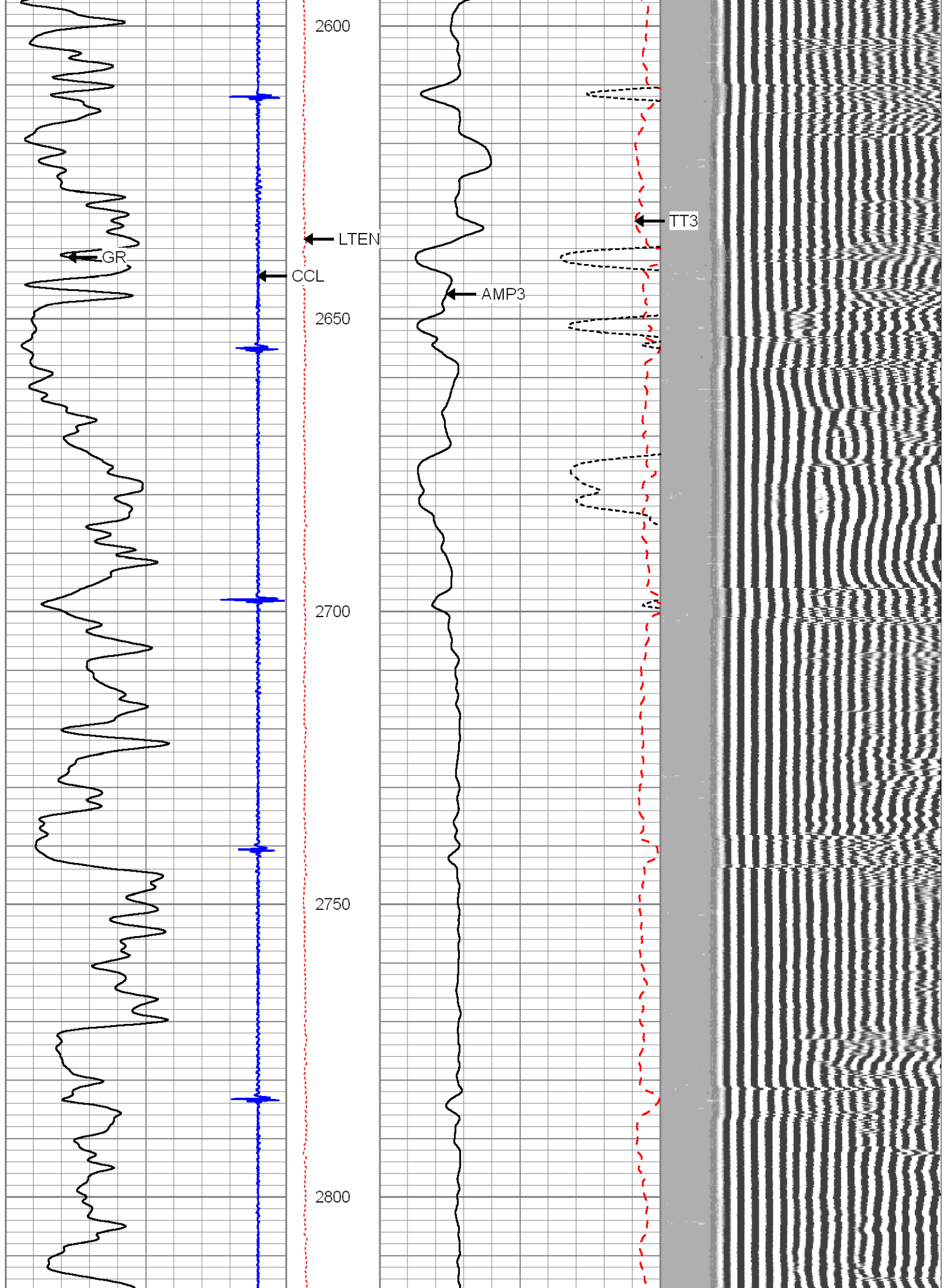
Service Ticket No.	7542670	API No.	15-081-21912	PGM Ver	WARRIOR 7.0
The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client					
EQUIPMENT DATA					
GAMMA RAY		CBL			
Run No.	ONE	Run No.	ONE	Run No.	

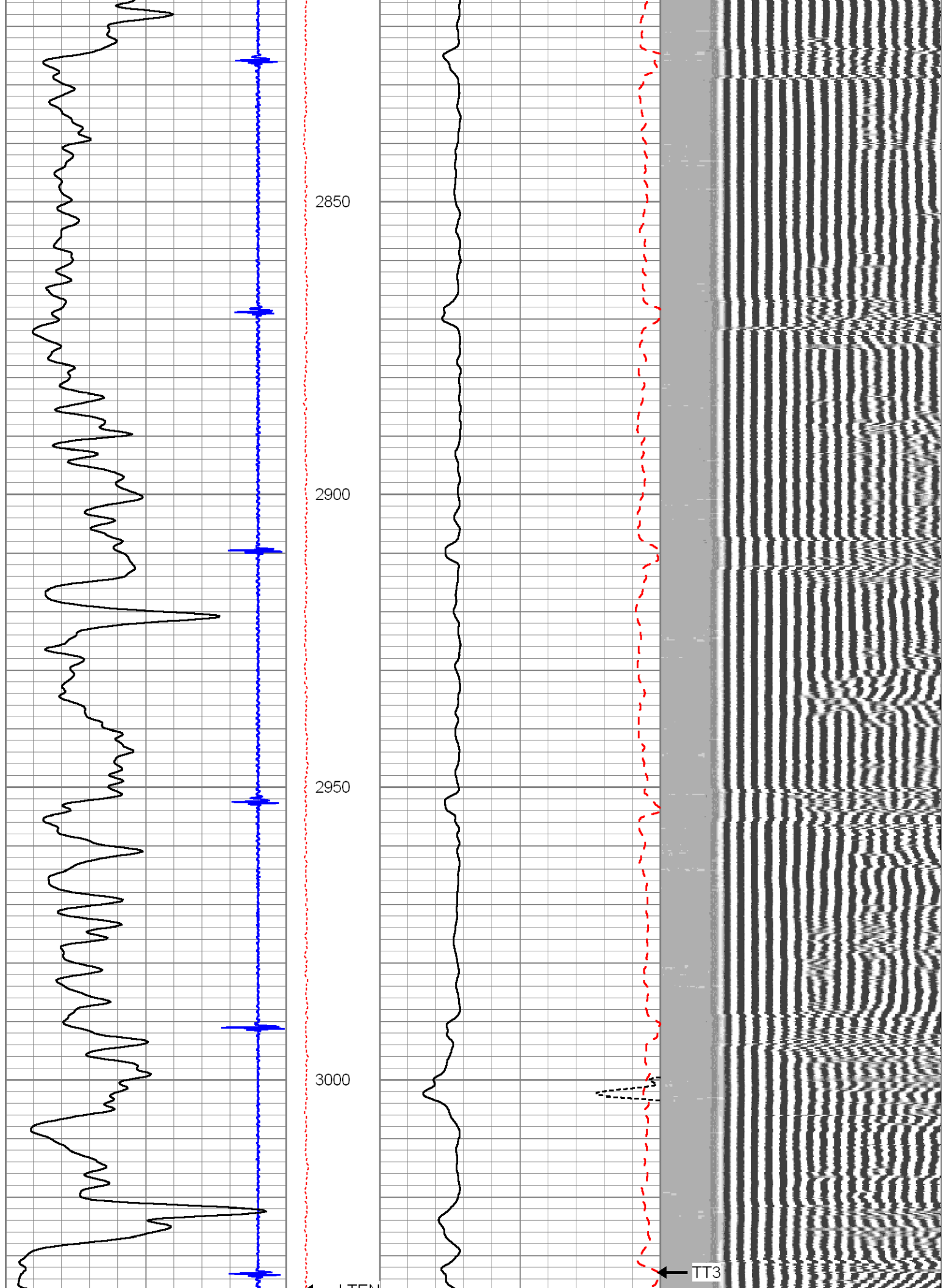
Run No.	ONE	Run No.	ONE	Run No.		Run No.	
Serial No.	060633	Serial No.	070714	Serial No.		Serial No.	
Model No.	PROBE	Model No.	PROBE	Model No.		Model No.	
Diameter	2.75	Diameter	2.75	Diameter		Diameter	
LOGGING DATA							
General Data							
Pass	Depths		Well Head	Speed	Logging Run Comments		
No.	From	To	Pressure	Ft/Min			
ONE	5511'	2300'	0	45	MAIN PASS		
	GAMMA RAY		AMPLITUDE		MSG		TRAVEL TIME
Pass	Scale		Scale		Scale		Scale
No.	L	R	L	R	L	R	L L
ONE	0	150	0	100	200	1200	177 277
	150	300	0	20			
DIRECTIONAL INFORMATION							
Maximum Deviation		deg. @		KOP			

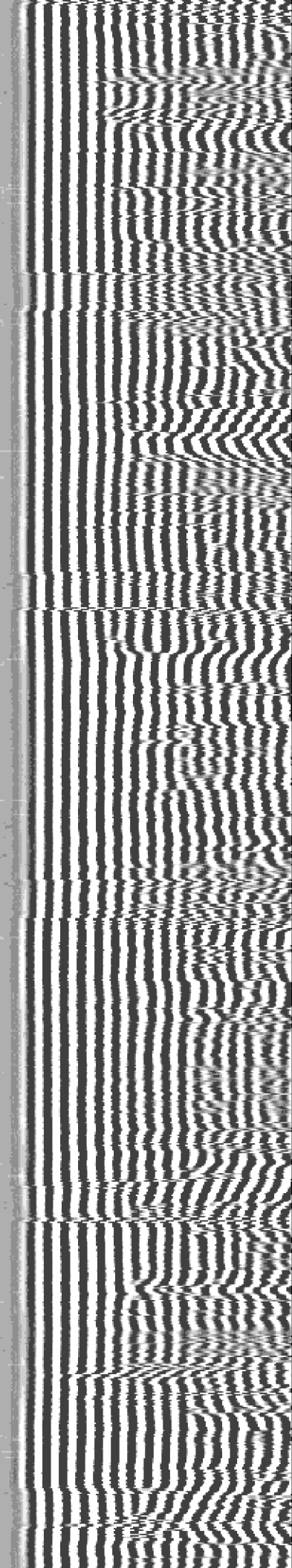
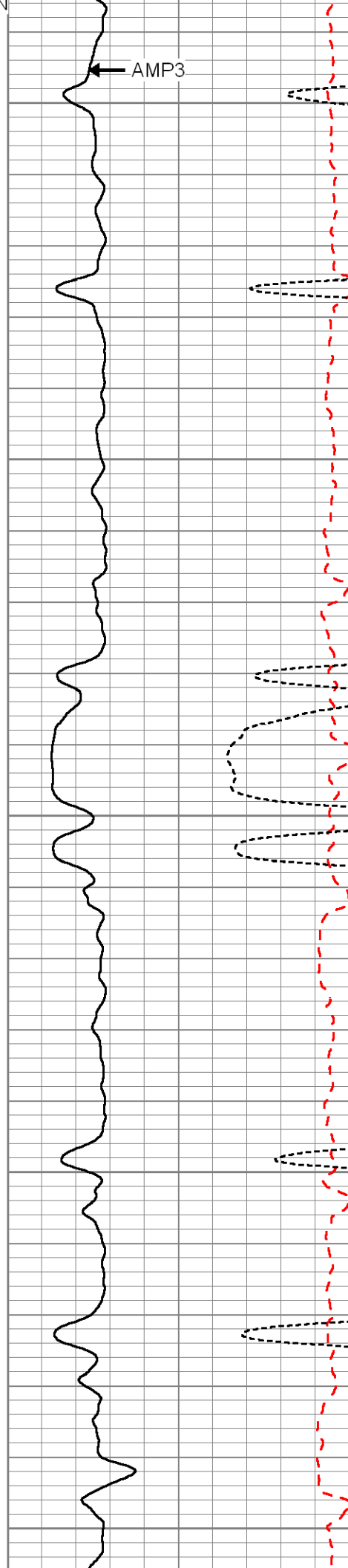
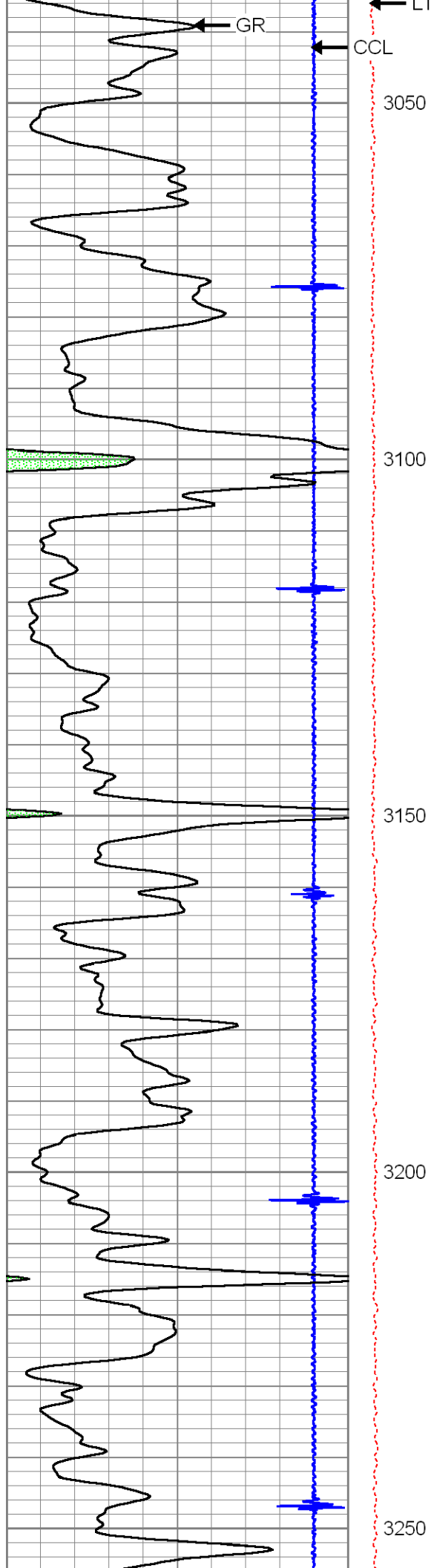
HALLIBURTON MAIN LOG SECTION SCALE 1:240							
Database File:		oxy_blasdel_a1_cbl.db					
Dataset Pathname:		pass4					
Presentation Format:		cbl_pn					
Dataset Creation:		Tue Aug 03 15:06:36 2010 by Log Halliburton Casedho					
Charted by:		Depth in Feet scaled 1:240					
9	Collar Locator	-1	LTEN	0	Amplitude (mV)	100	200 MSG 1200
0	GR (GAPI)	150		177	Travel Time (usec)	277	
150	gr (GAPI)	300		0	AAMP (mV)	20	

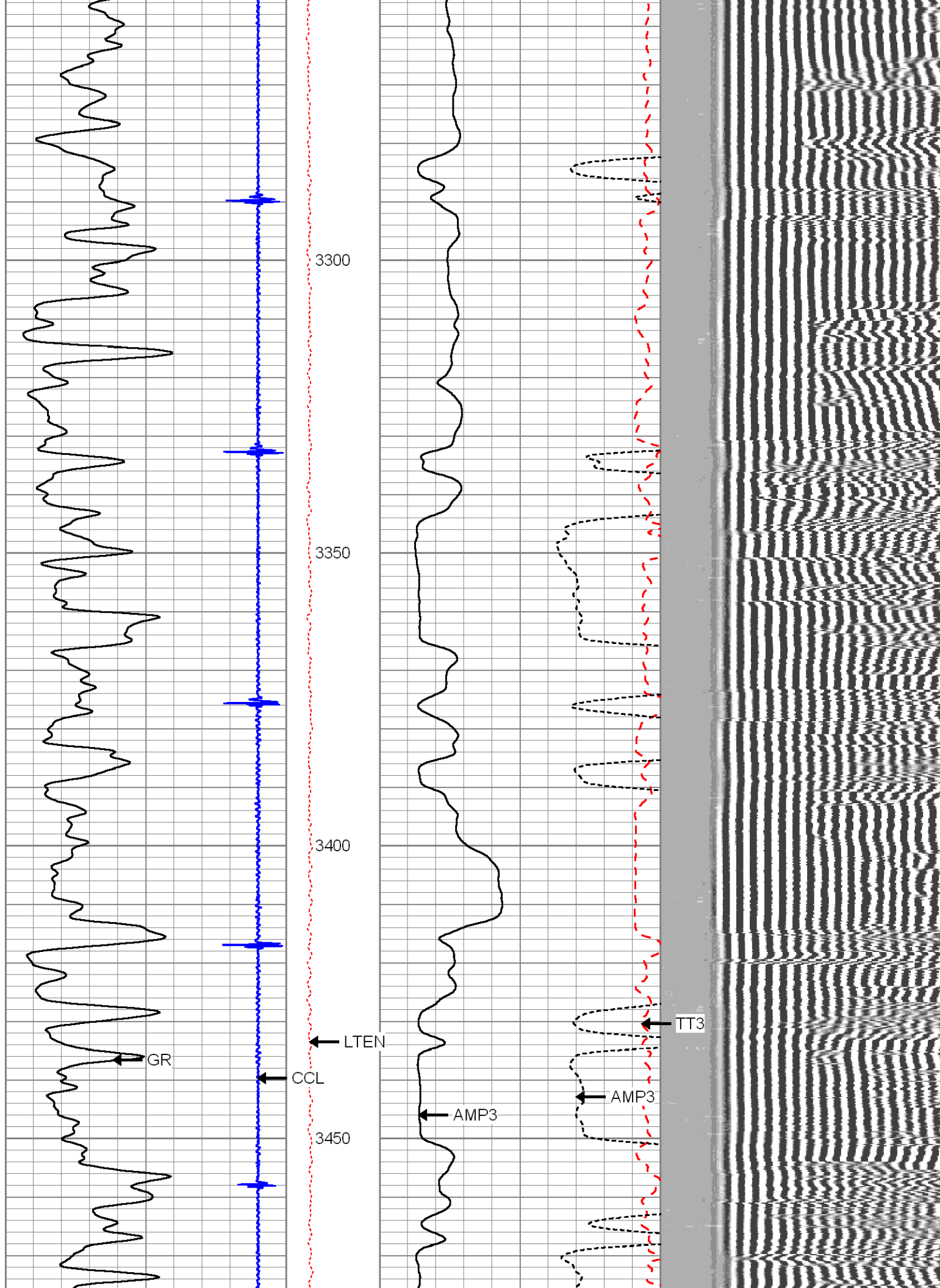


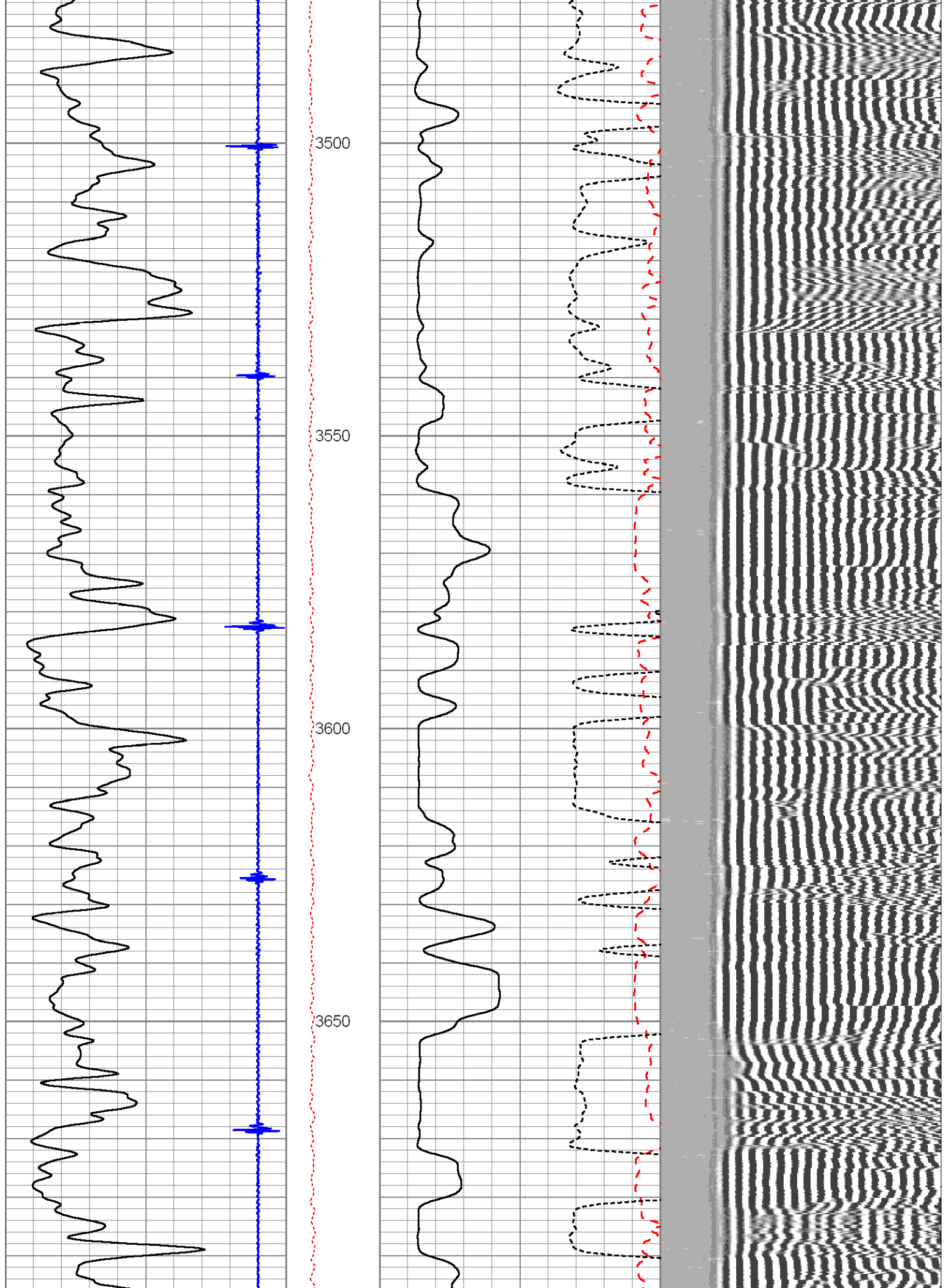


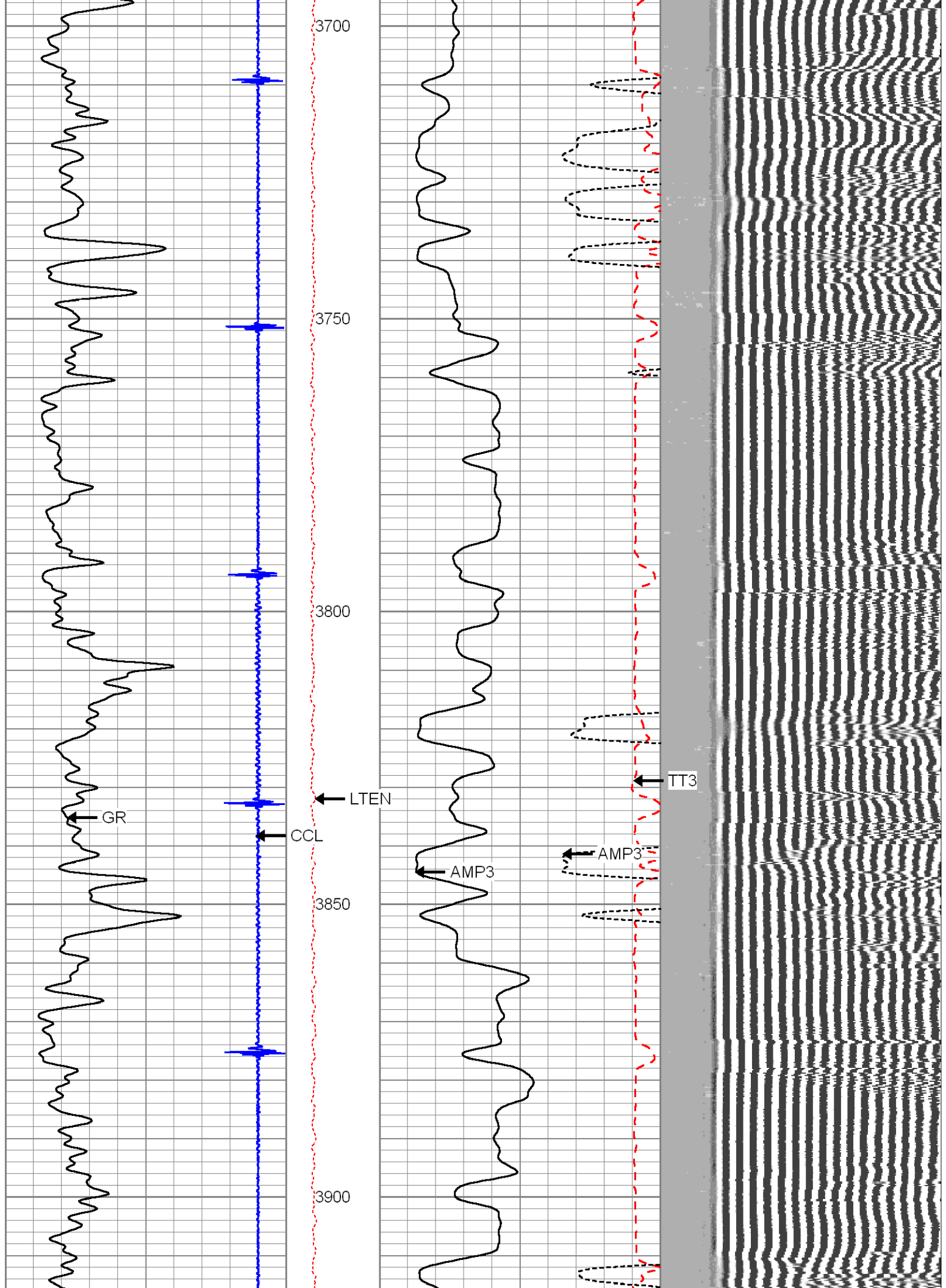


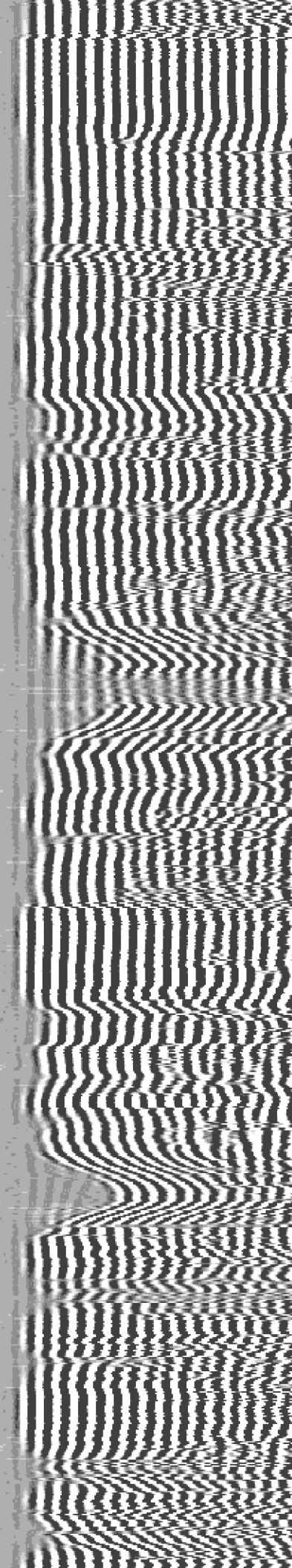
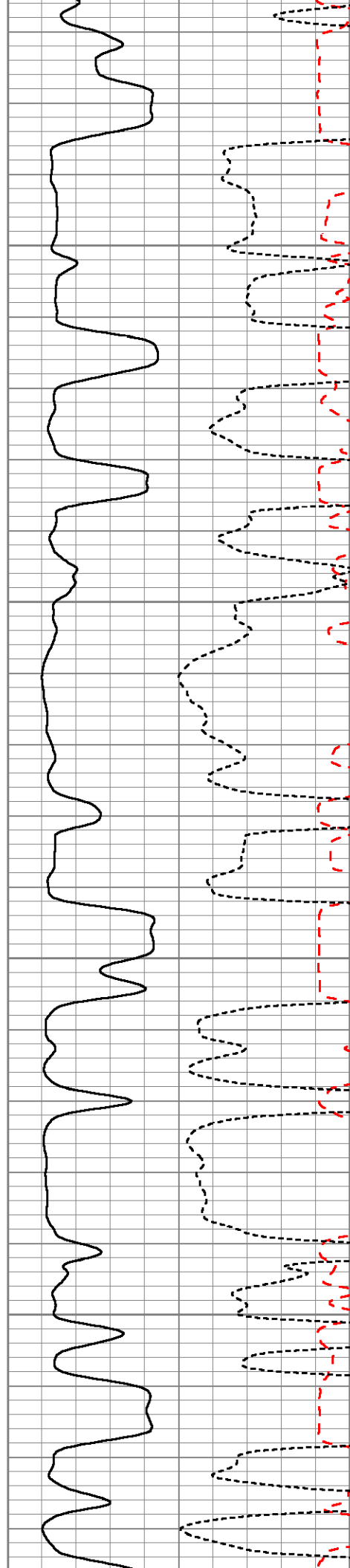
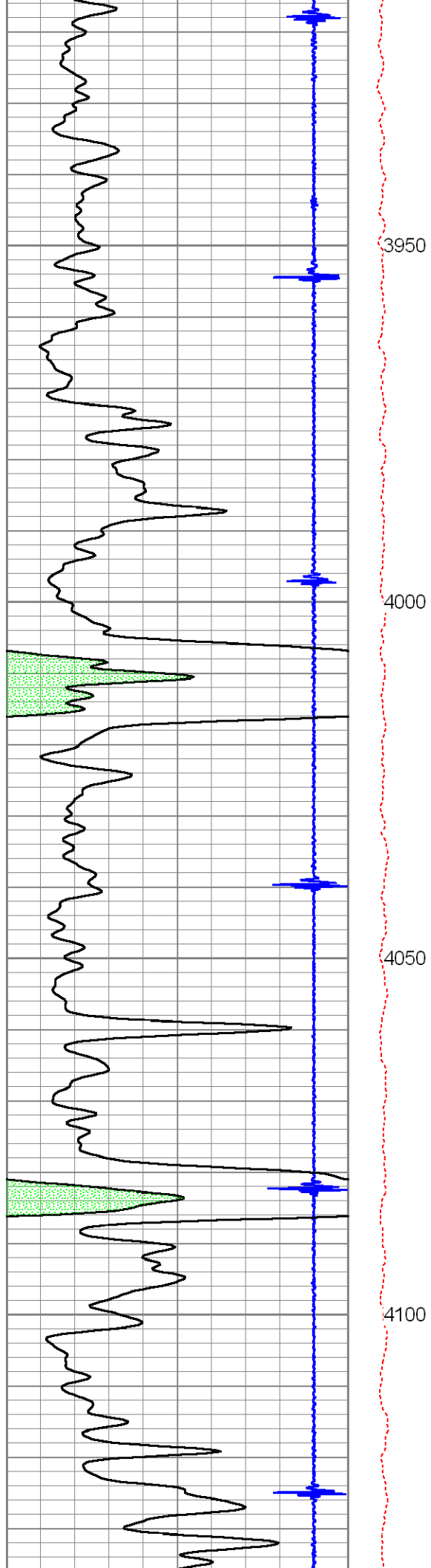


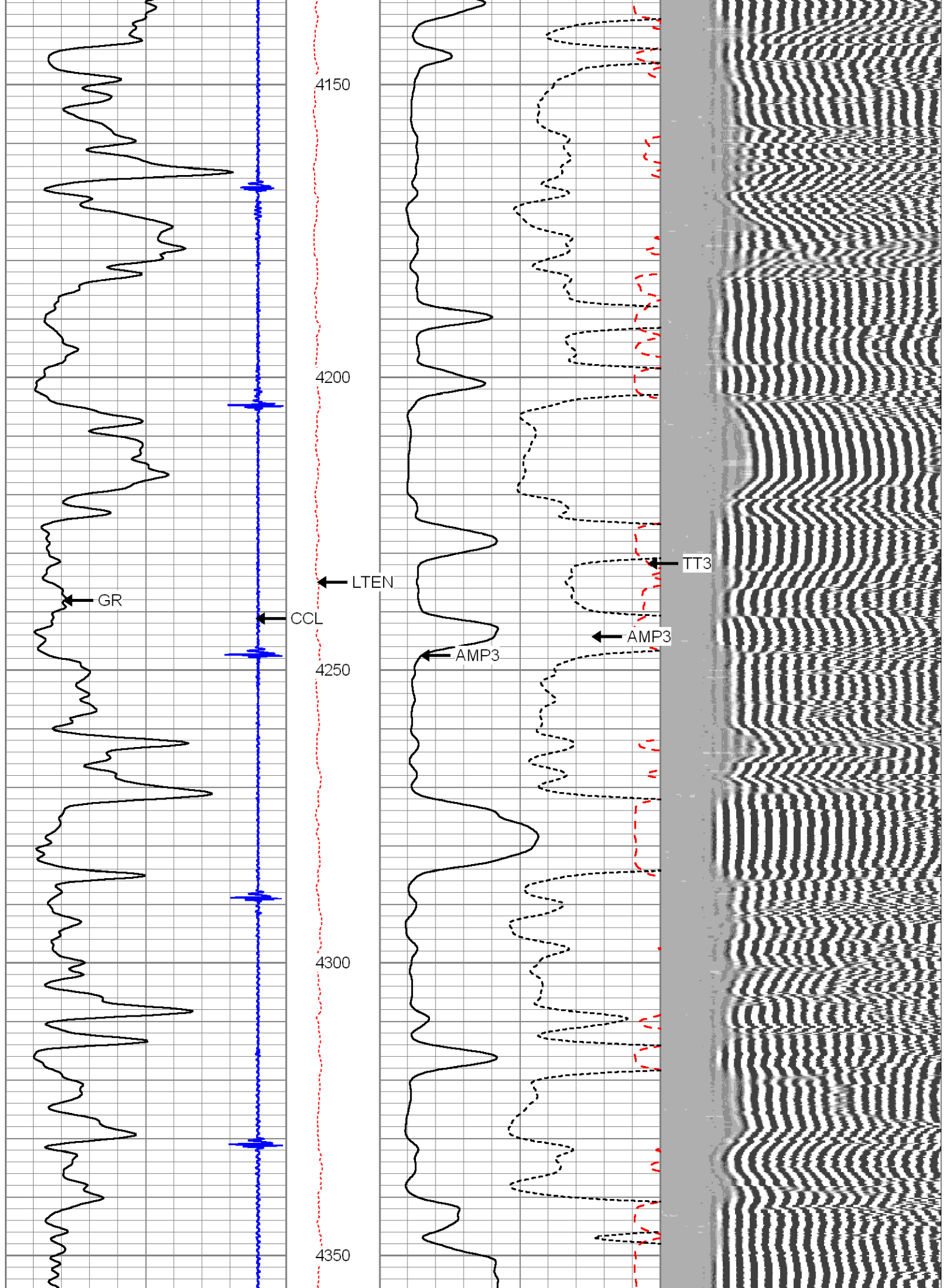


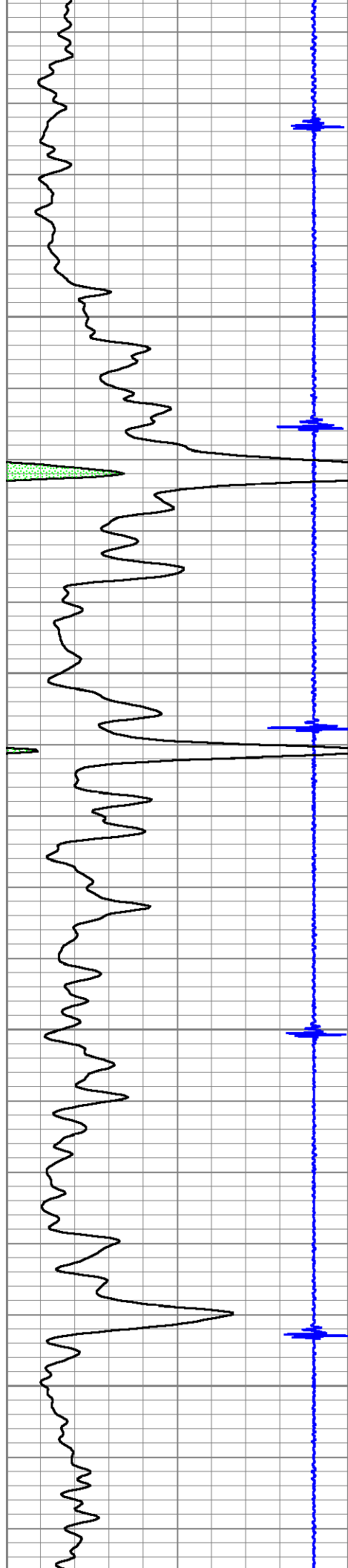










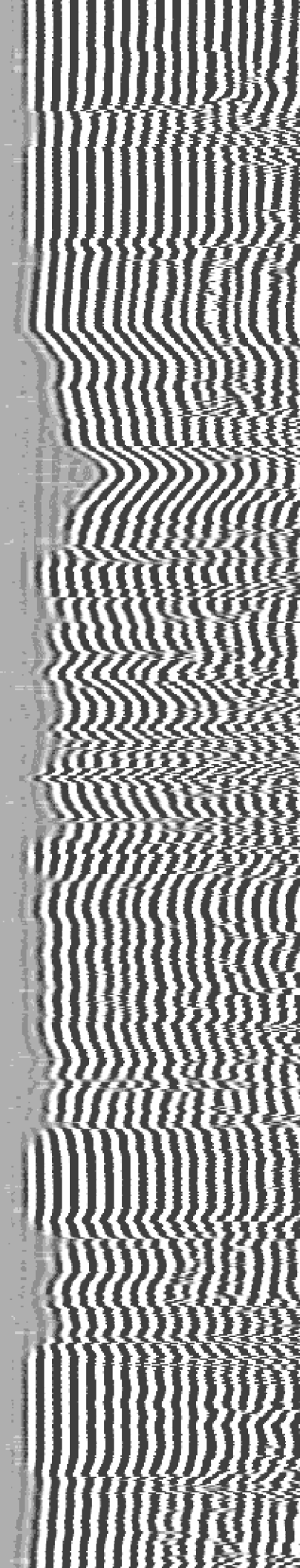
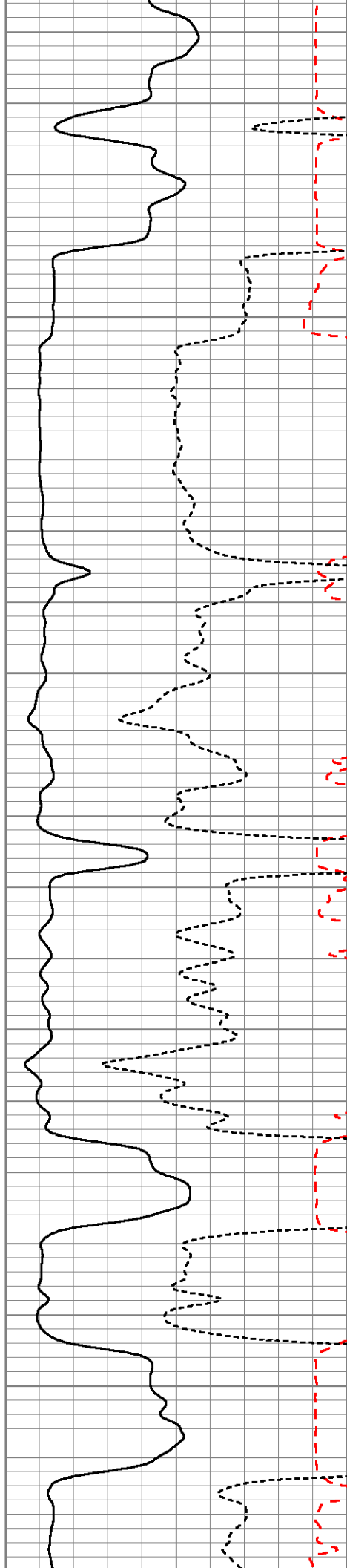


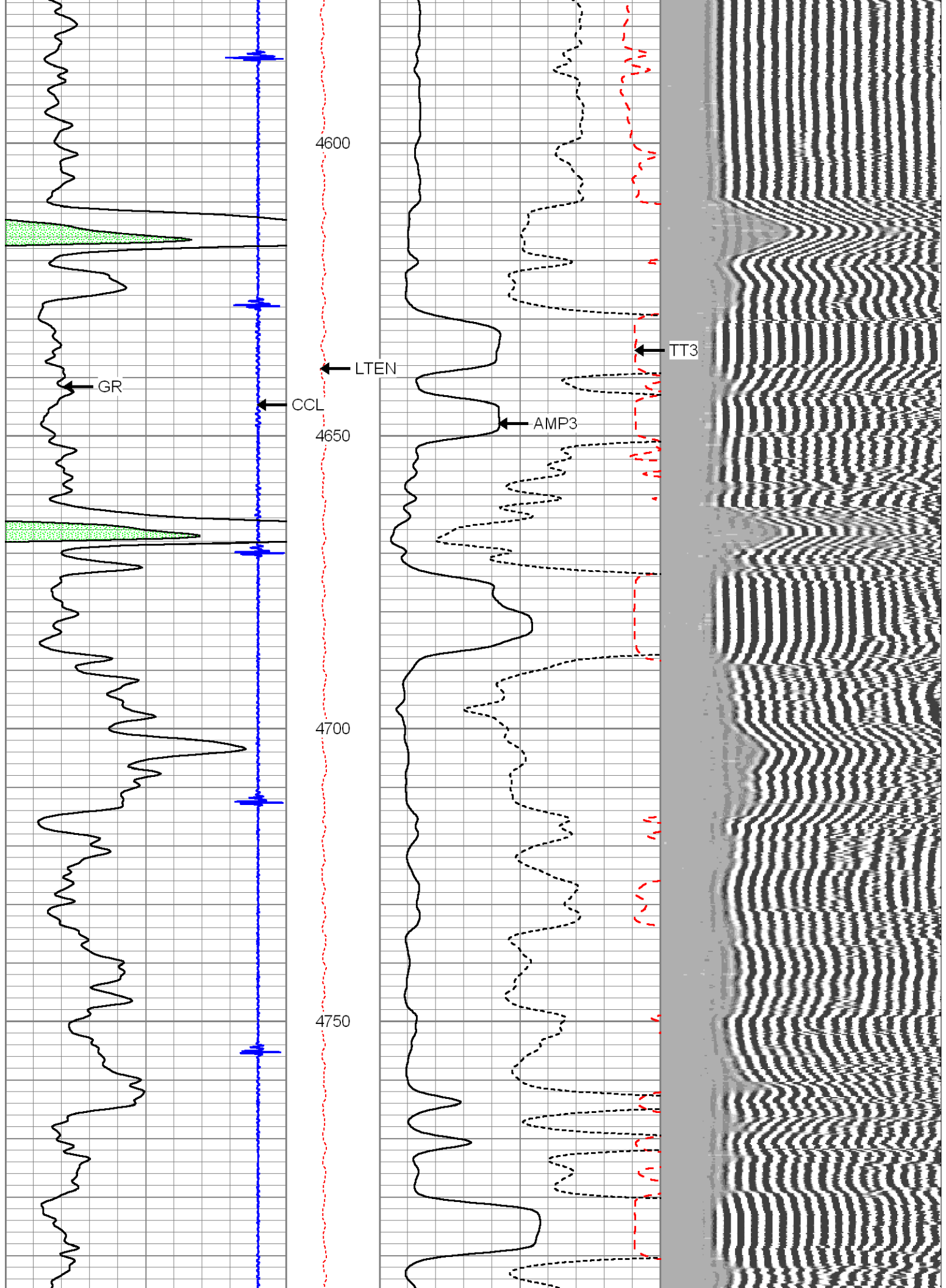
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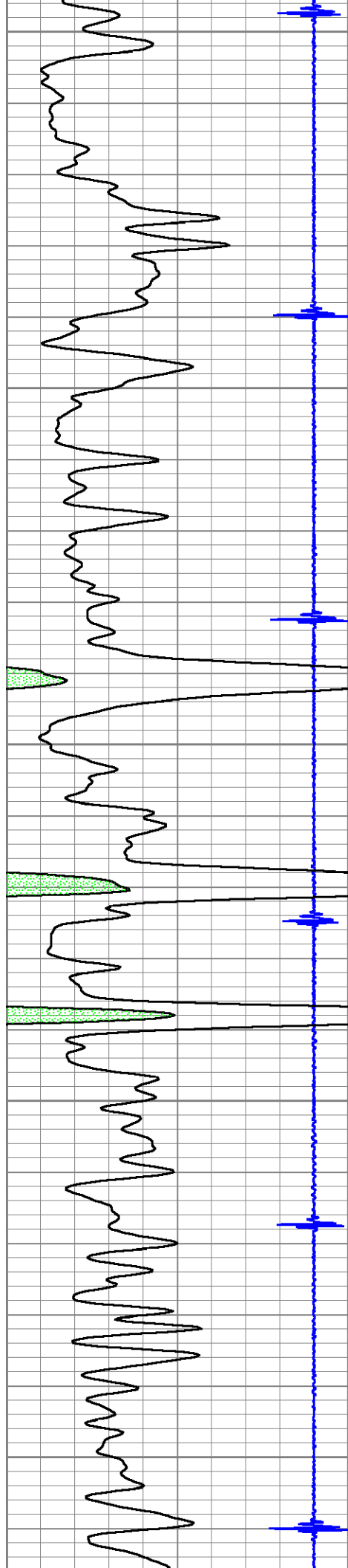
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4500

4550







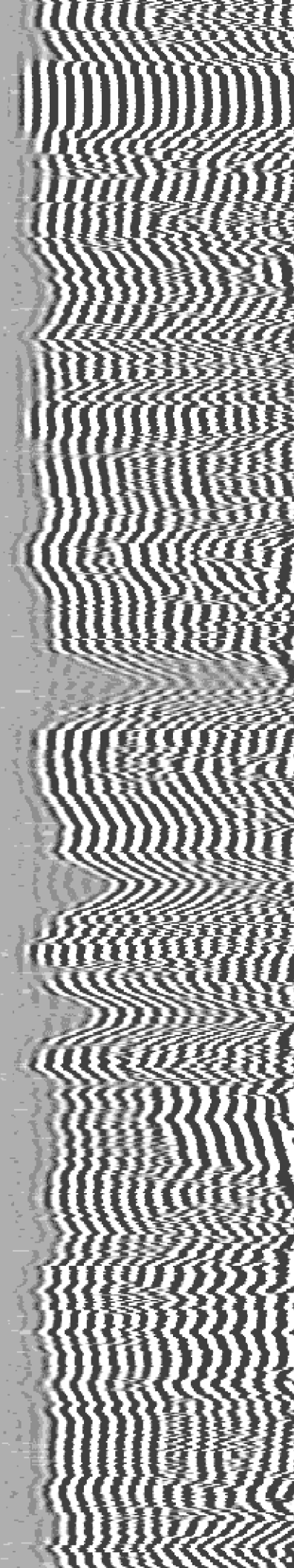
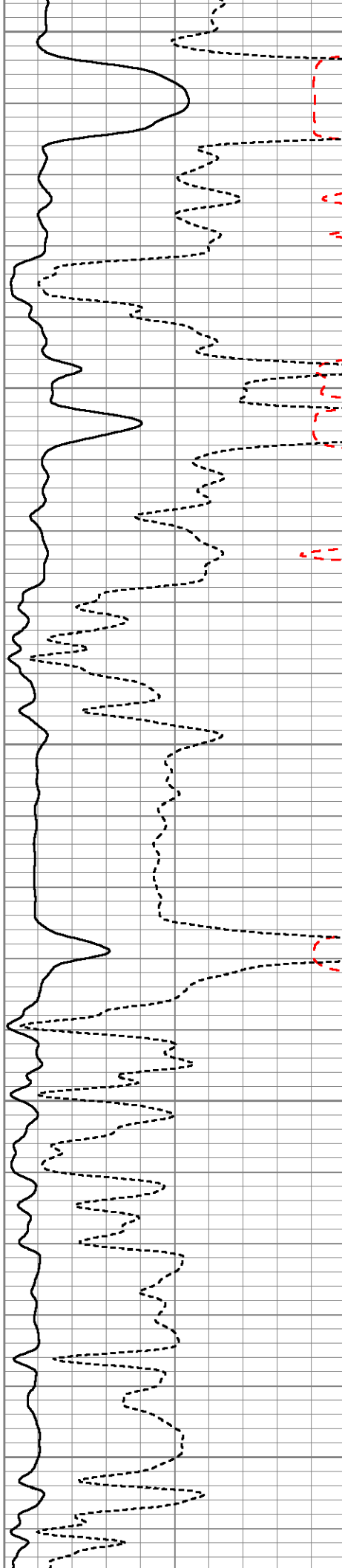
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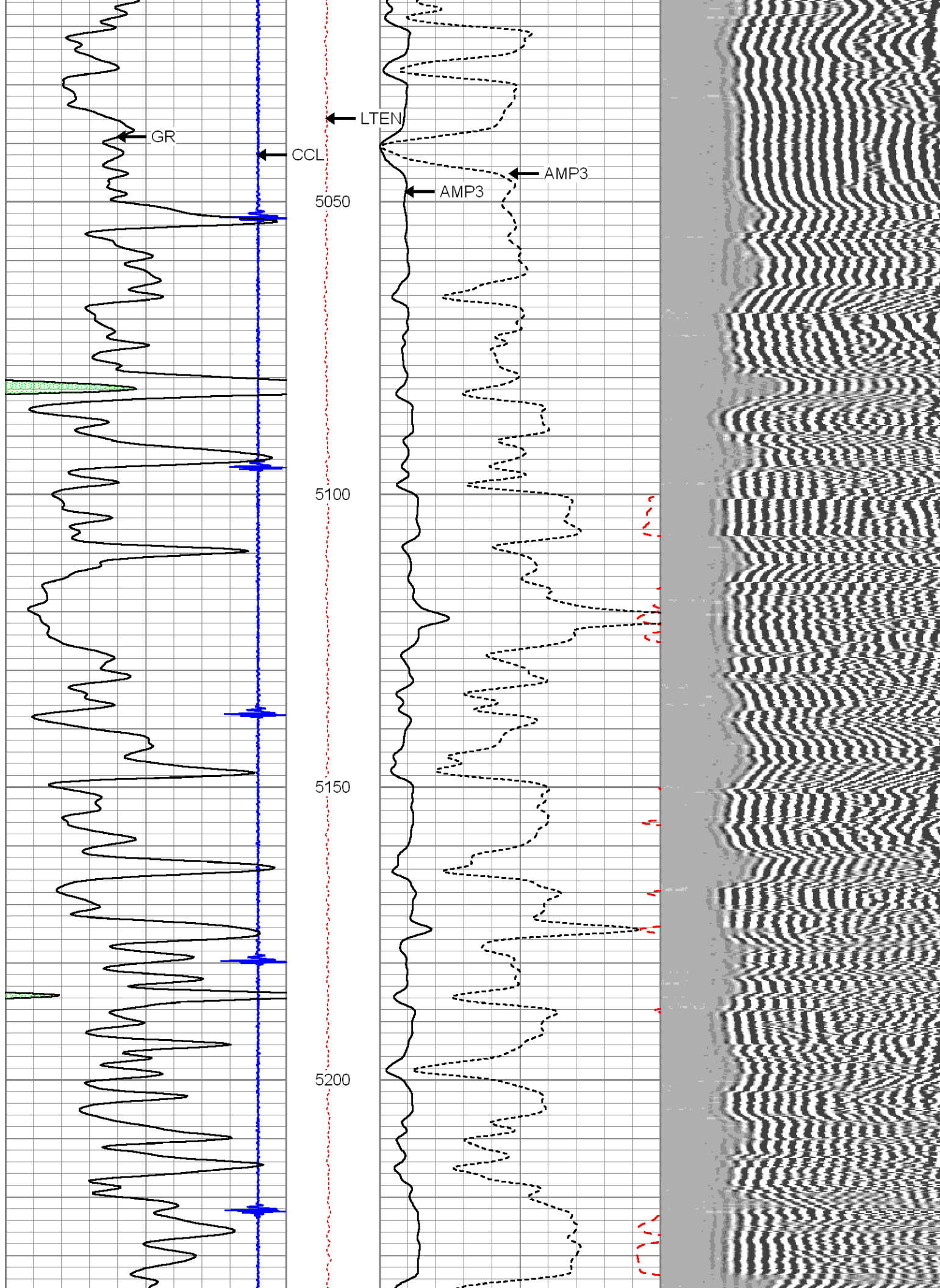
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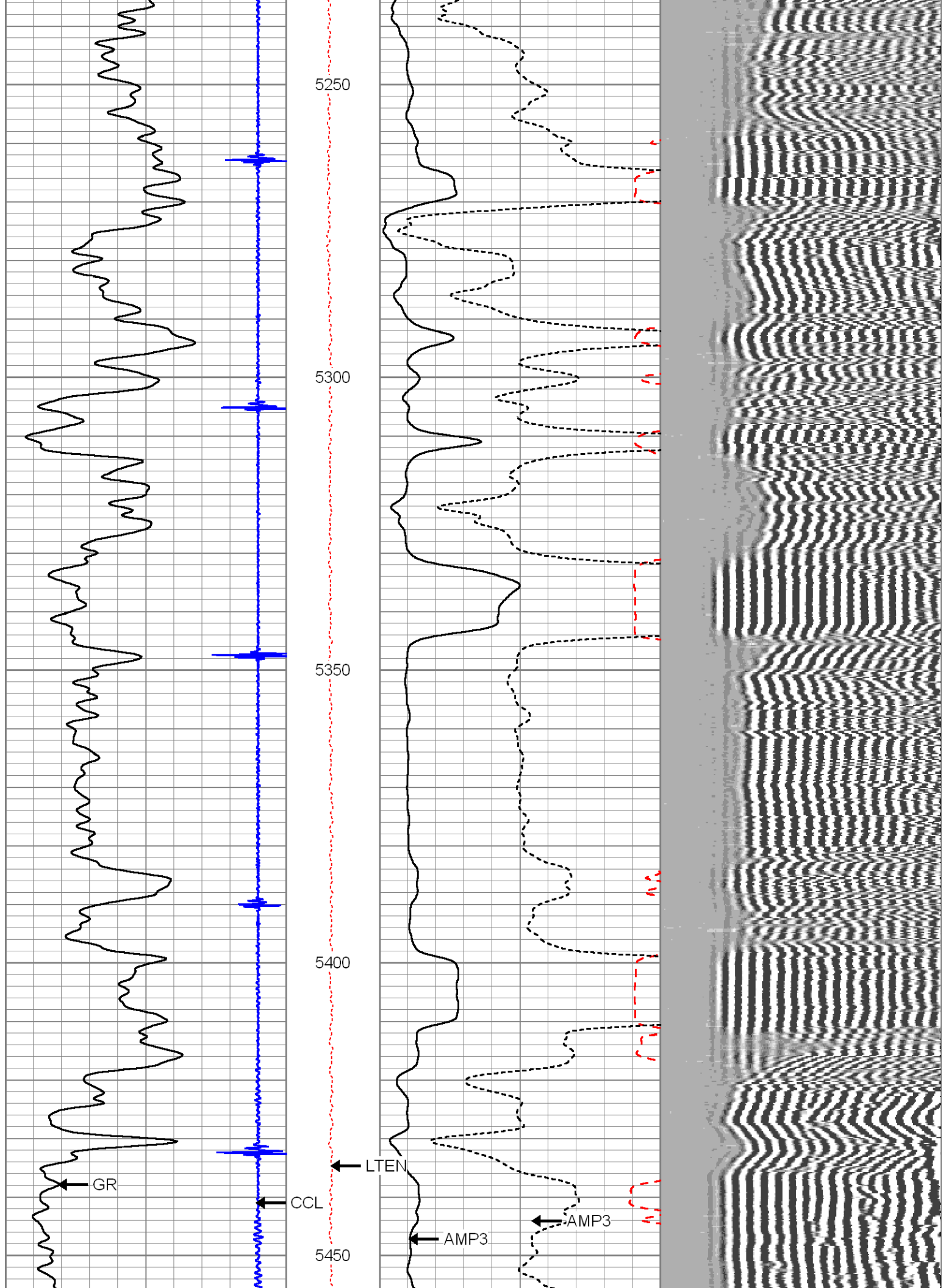
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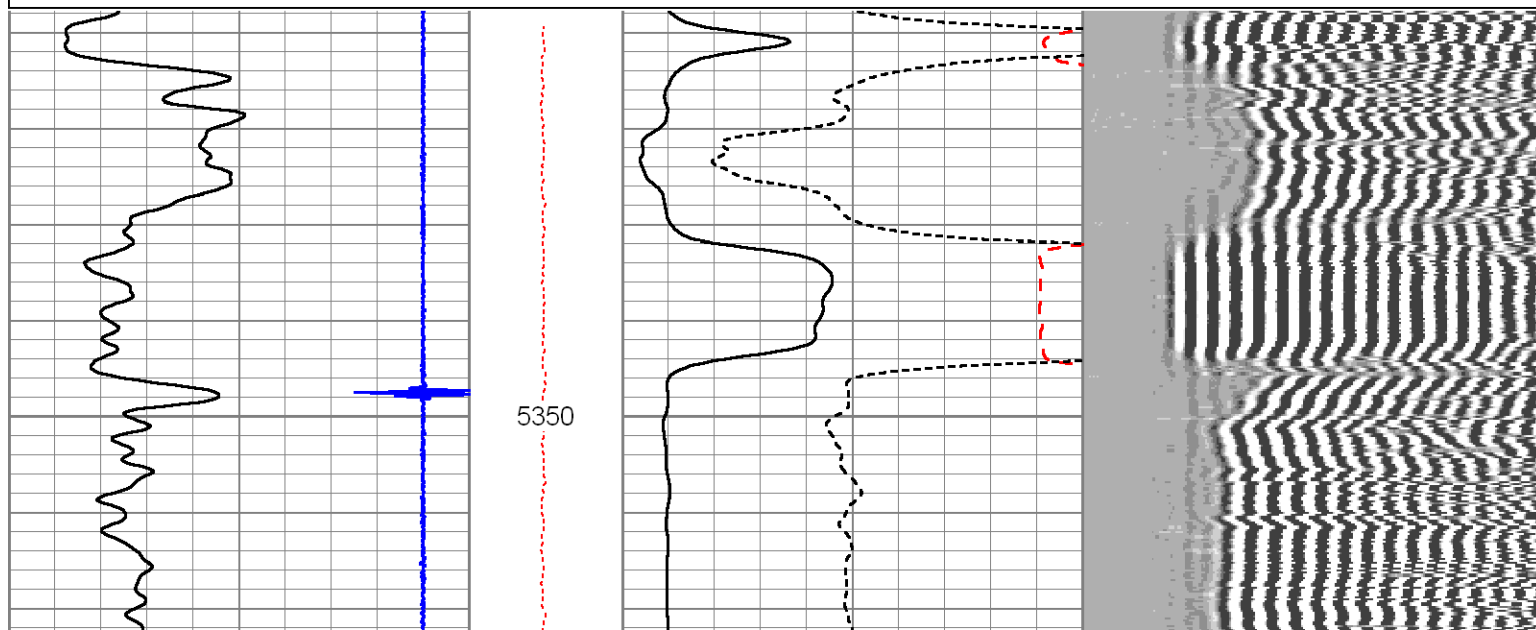
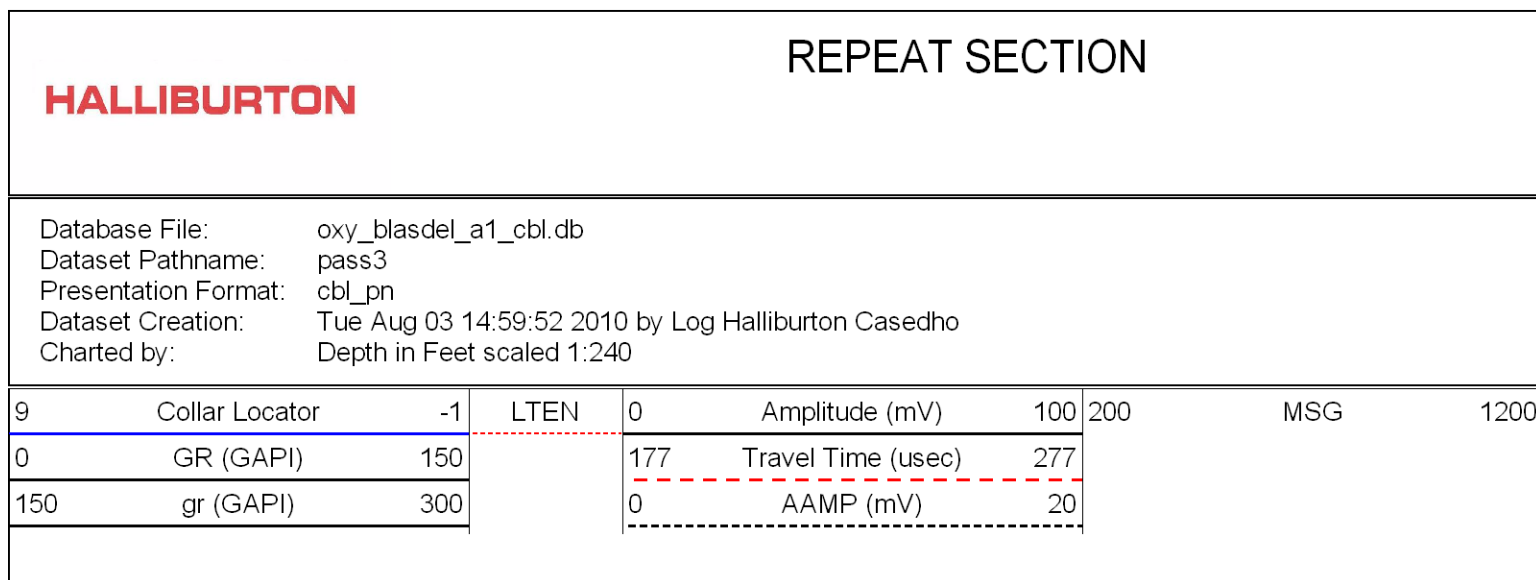
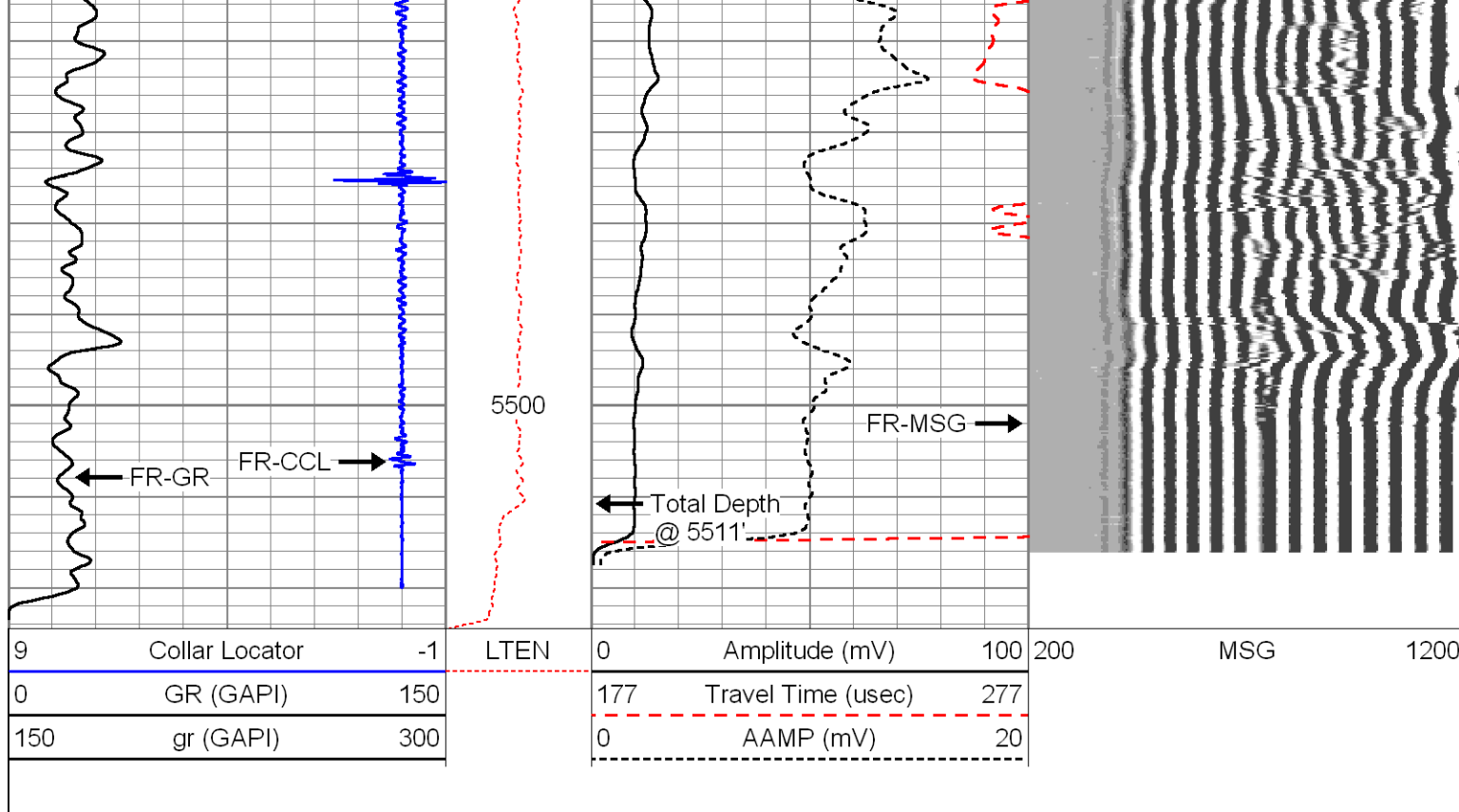
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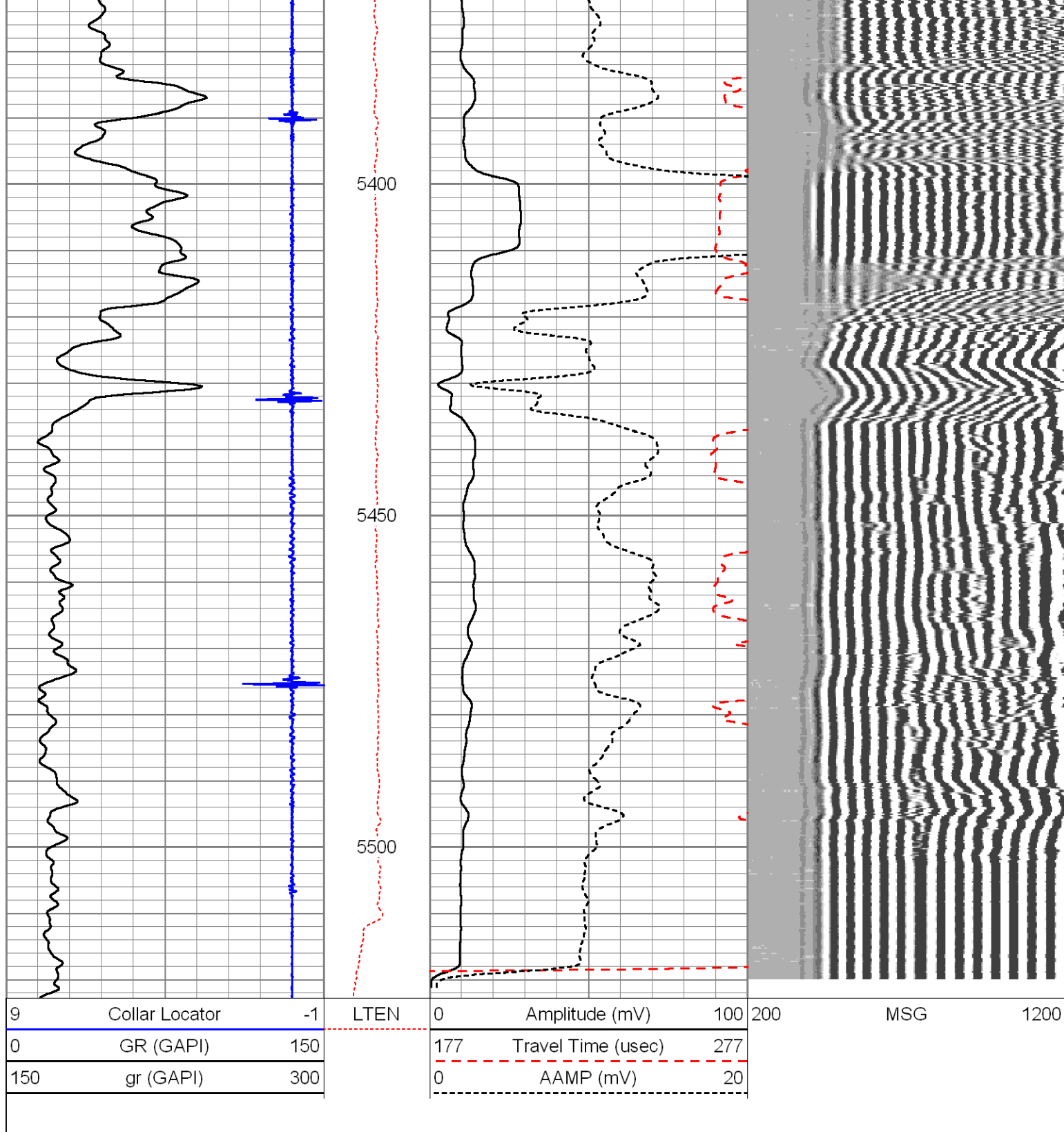
5000









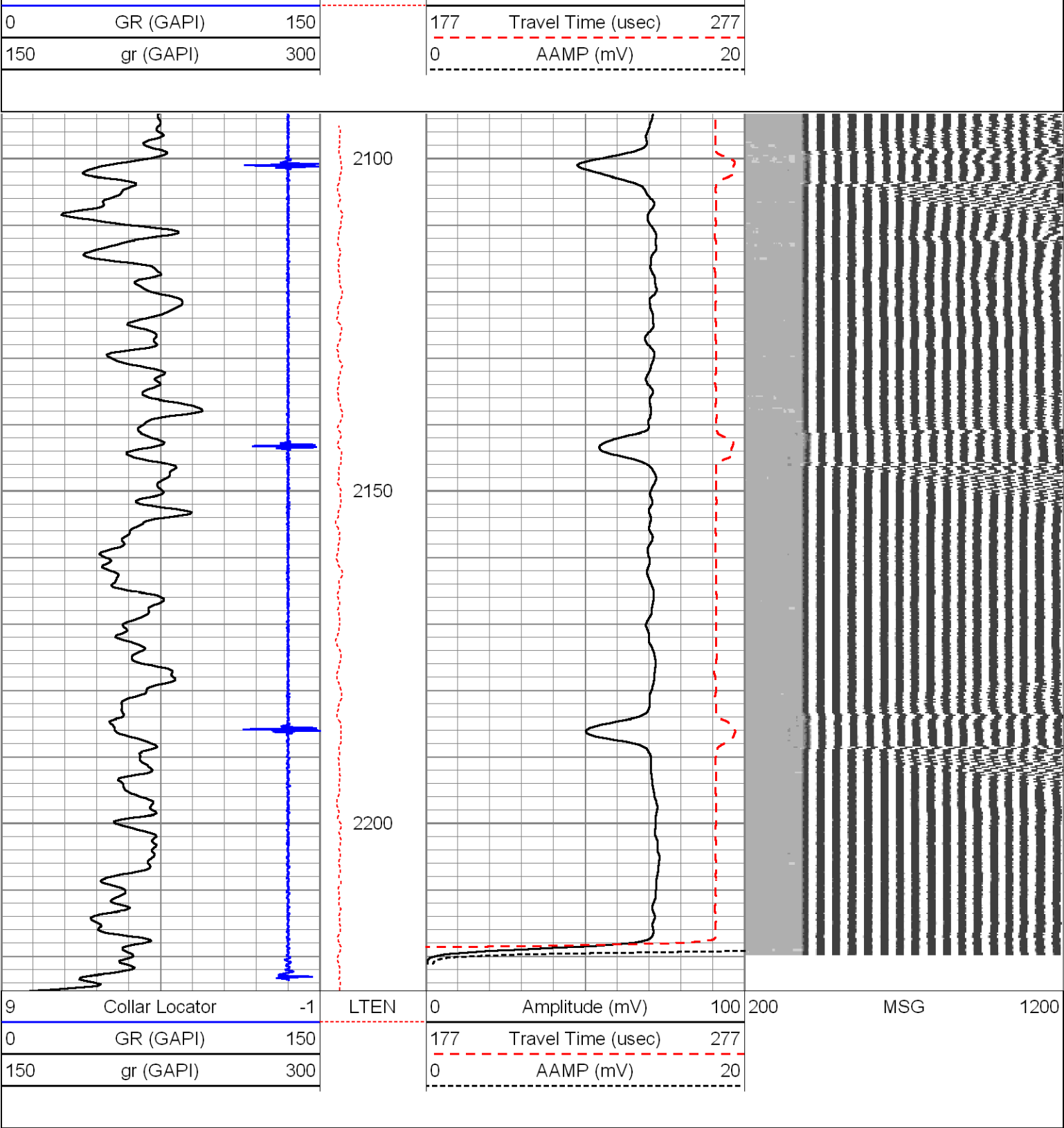


FREE PIPE SECTION

HALLIBURTON

Database File: oxy_blasdel_a1_cbl.db
Dataset Pathname: pass2
Presentation Format: cbl_pn
Dataset Creation: Tue Aug 03 14:43:52 2010 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

9	Collar Locator	-1	LTEN	0	Amplitude (mV)	100	200	MSG	1200
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Calibration Report						
Database File:	oxy_blasdel_a1_cbl.db					
Dataset Pathname:	pass4					
Dataset Creation:	Tue Aug 03 15:06:36 2010 by Log Halliburton Casedho					
Gamma Ray Calibration Report						
Type / Serial:		probe275dig / 070633				
SHOP CALIBRATION		Tue Aug 03 14:28:05 2010				
	Counts/Sec.	Gain	Offset	Jig	Units	
Background	98.7				cps	
Calibrator	122.4				cps	

Calibrator	422.4	0.8312	cps GAPI/cps
PRIMARY VERIFICATION		Tue Aug 03 14:30:25 2010	
Background	77.4		cps
Calibrator	347.3		cps
Difference		269.9	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

Cement Bond Log Calibration Report

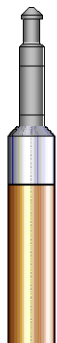
Serial Number:	060714		
Tool Model:	Probe275Digital		
Performed:	Tue Aug 03 14:40:58 2010		
Depth:	1964.75	ft	
Casing Diameter:	5.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0	0	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	-0.00231934	-0.00168457	V
Reading in Free Pipe:	0.37771	0.440234	V
Gain:	189.251	162.747	
Offset:	0.438937	0.274159	

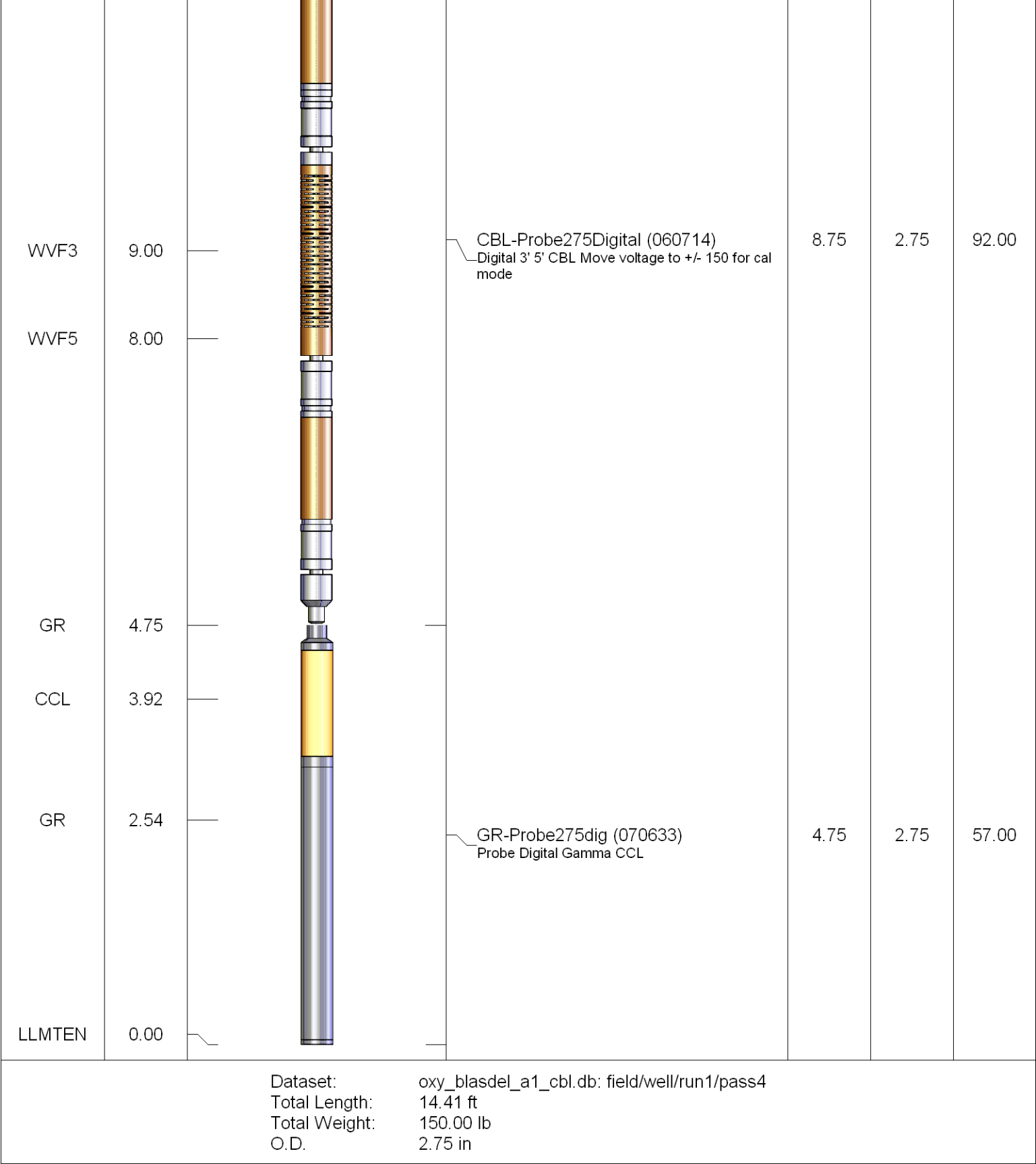
Log Variables

Database: D:\warrior_data\oxy_blasdel_a1_cbl.db
Dataset: field/well/run1/pass4

Top - Bottom

PPT usec	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF
0	72	0	0.8	5.5	0	5511	100
BITSIZE in 7.875							

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
STNDCH	14.41		STND_CH 1.4375 IN CABLE HEAD	0.92	1.44	1.00



Company	OXY USA INC.				
Well	BLASDEL A-1				
Field	N/A				
County	HASKELL		State	KANSAS	
HALLIBURTON		CEMENT BOND LOG			

SCALE 1:240