

HALLIBURTON

CEMENT BOND
LOG
SCALE 1:240

Company	MERIT ENERGY	Company	MERIT ENERGY	Other Services			
Well	GARDEN CITY V-6	Well	GARDEN CITY V-6				
Field	SEQUOYAH SOUTH	Field	SEQUOYAH SOUTH				
County	FINNEY	County	FINNEY	State	KANSAS		
Permanent Datum		Sec:27 Twp:23S Rge:34W		N/A			
Log Measured From	KB	Elevation	2960'	Elevation	K.B. 2975' D.F. N/A G.L. 2960'		
Drilling Measured From							
Date @ Time Logged	07 JUL 2014 @ 12:30	Type Fluid in Hole	WATER				
Run No.	ONE	Density of Fluid	8.33				
Depth - Driller	4958'	Fluid Level	35'				
Depth - Logger	4857'	Cement Top Est. Logged	3216'				
Bottom - Logged Interval	4844.5'	Equipment / Location	10971670 / LIB				
Top - Log Interval	2716'	Recorded by	STEVE KALBERER				
Max. Recorded Temp.	127 F	Witnessed by	P.NICHOLS				
CEMENTING DATA	Surface String	Protection String	Production String	Liner			
Date / Time Cemented							
Primary / Squeeze							
Expected Compressive Strength	psi@ hrs	psi@ hrs	psi@ hrs	psi@ hrs			
Cement Volume							
Cement Type / Weight	/	/	/	/			
Formulation							
Mud Type / Mud Wgt.	/	/	/	/			
Borehole Record		Casing & Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To
ONE				8.625"	24#	SURFACE	1811'
TWO				5.5"	17#	SURFACE	4958'

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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

CORRELATED TO SCHLUMBERGER DENSITY LOG DATED 25 JUL 2014.

CREW: LAURIE.
THANKYOU FOR USING HES.

Service Ticket No.	API No.	15055223060000	PGM Ver
The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client			
EQUIPMENT DATA			
RCBL		gamma	
Run No.	ONE	Run No.	ONE
Serial No.	080640	Serial No.	060738
Model No.	PROBE	Model No.	PROBE
Diameter	2.75'	Diameter	2.75"
LOGGING DATA			
General Data			
Pass	Depths		Well Head
No	From	To	Pressure
			Ft/Min
			Logging Run Comments

No.	4857'	2716'	N/A					
	GAMMA RAY		AMPLITUDE		MSG		TRAVEL TIME	
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
	0	120	0	20	200	1200	178	278
	120	240	0	100				
DIRECTIONAL INFORMATION								
Maximum Deviation			deg. @		KOP			

HALLIBURTON

MAIN LOG SECTION

SCALE 1:240

Database File

15055223060000_merit_garden_city_v6_rcbl.db

Dataset Pathname

pass3

Presentation Format

alv cbl

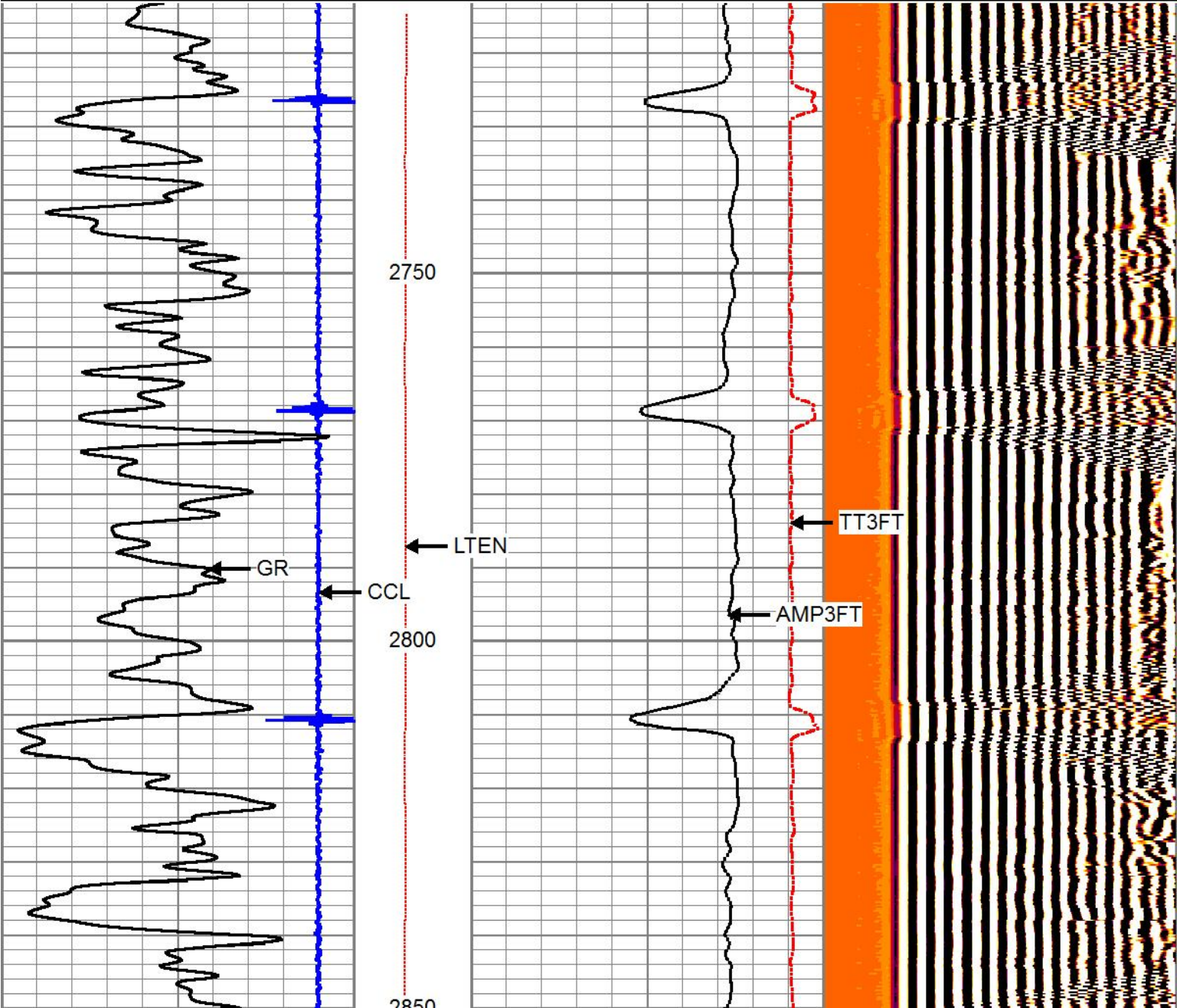
Dataset Creation

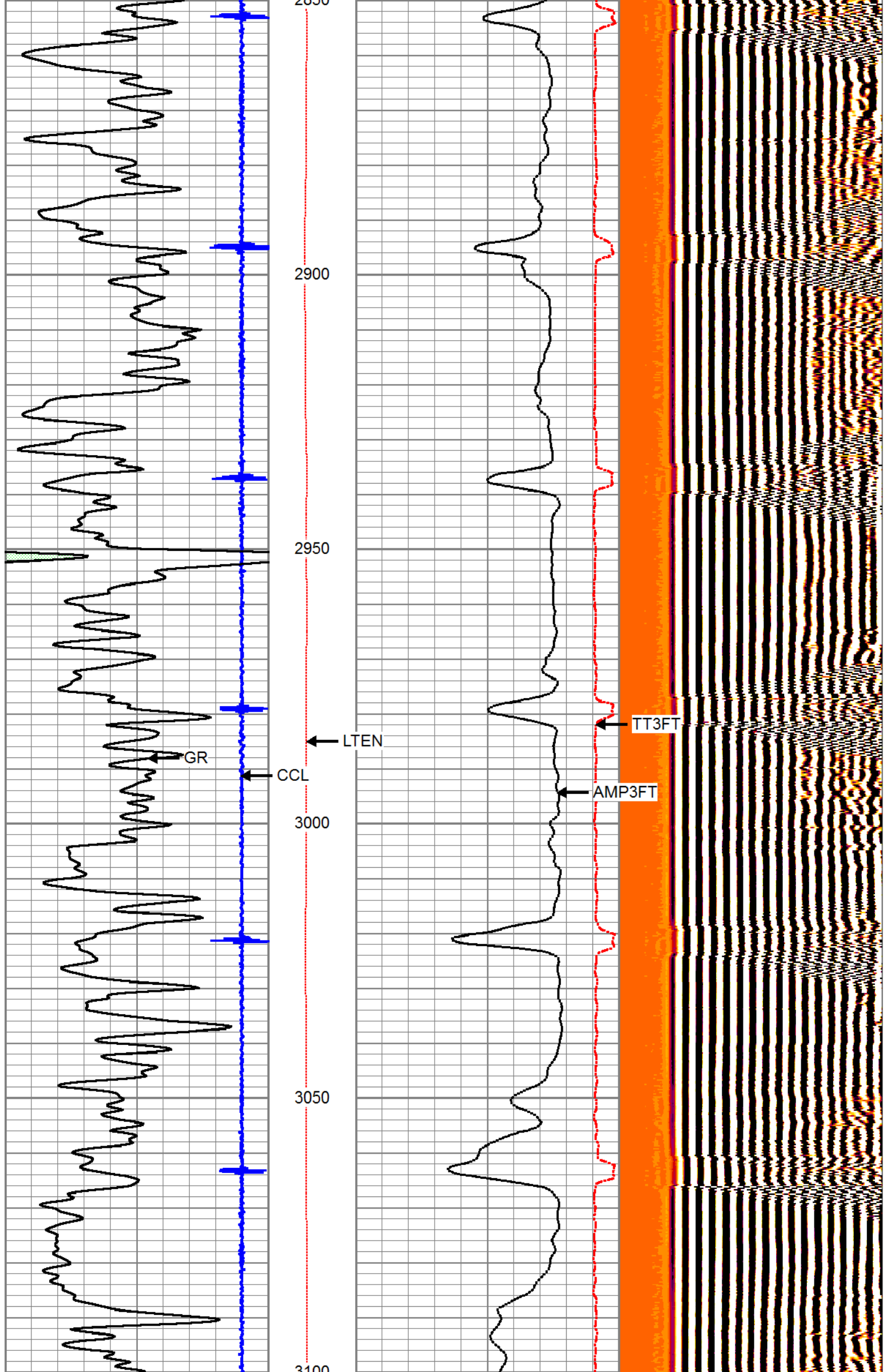
Mon Jul 07 11:22:36 2014

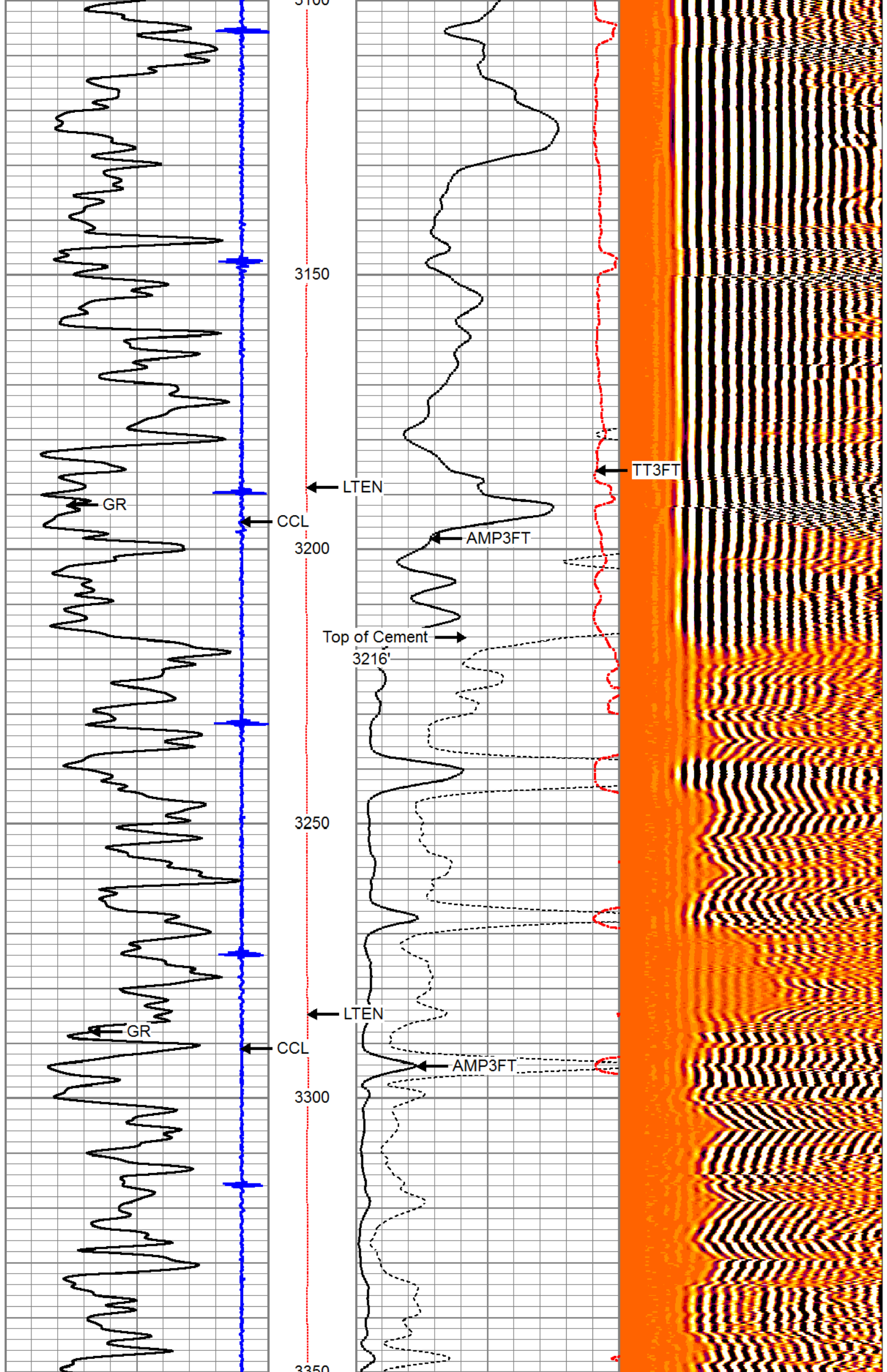
Charted by

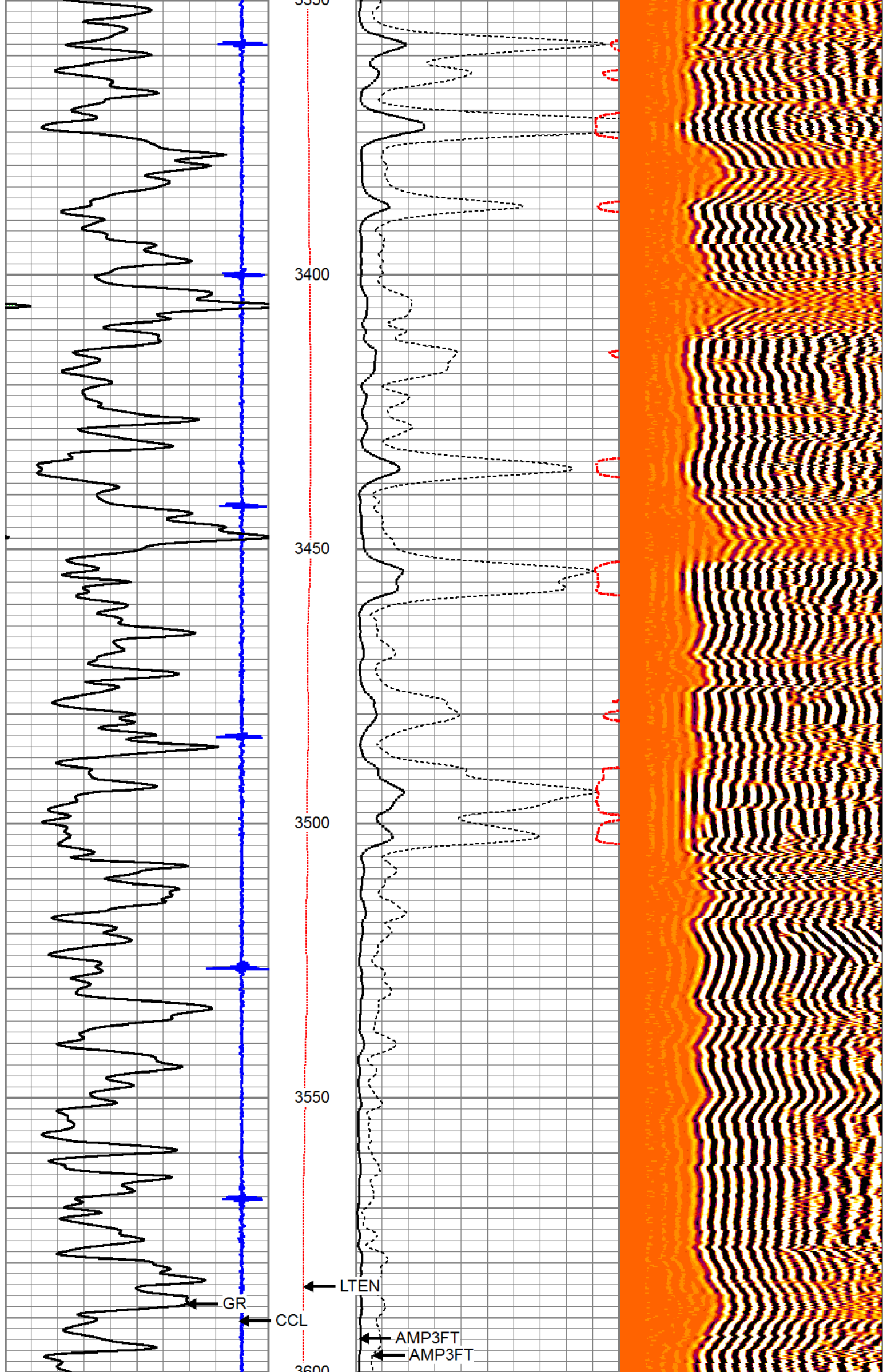
Depth in Feet scaled 1:240

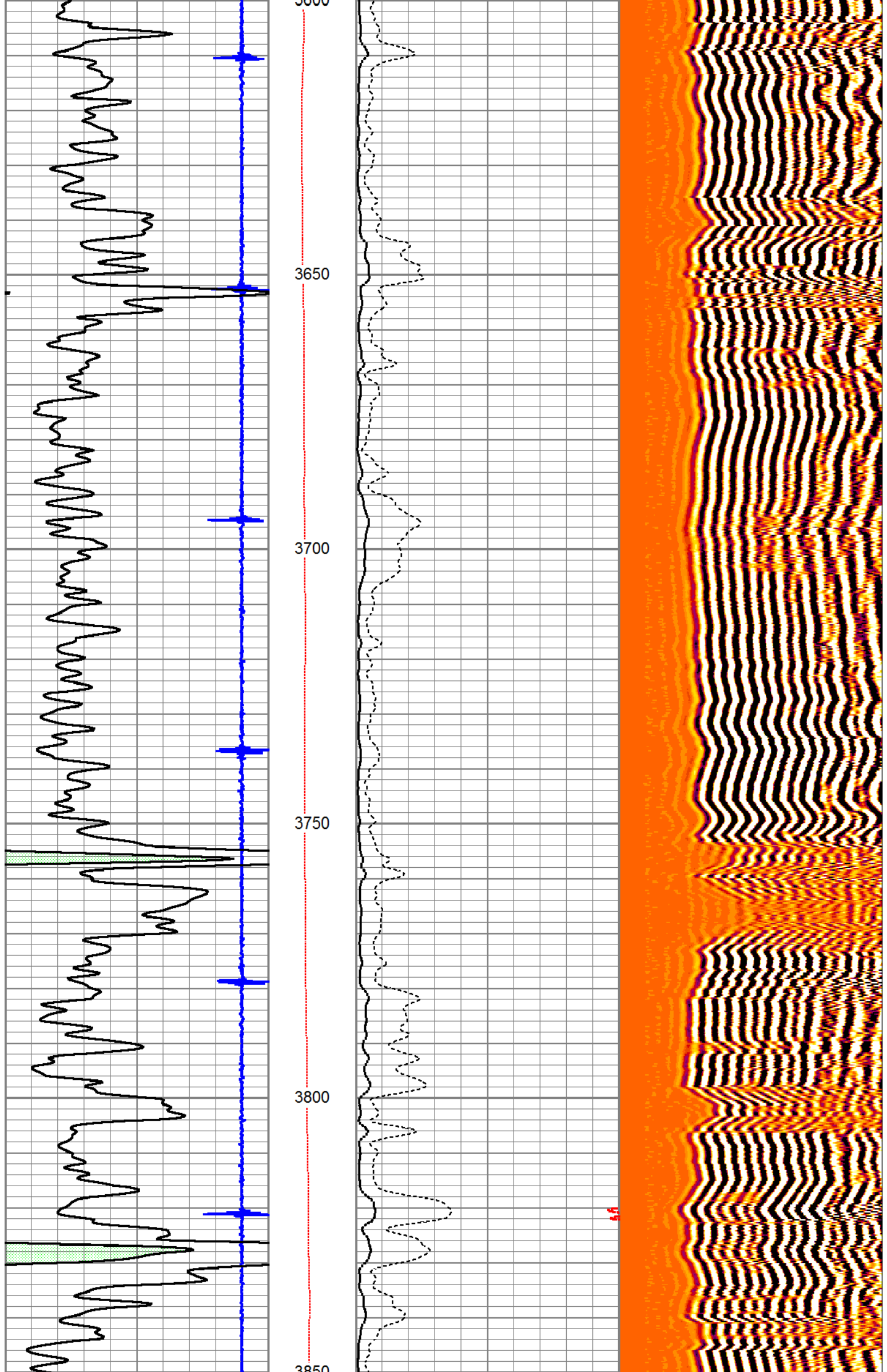
9	Collar Locator	-1	Tension	0	Amplified Amplitude (mV)	20	200	Variable Density	1200
0	Gamma Ray (GAPI)	120		0	Amplitude (mV)	100			
120	gr (GAPI)	240		178	Travel Time (usec)	278			

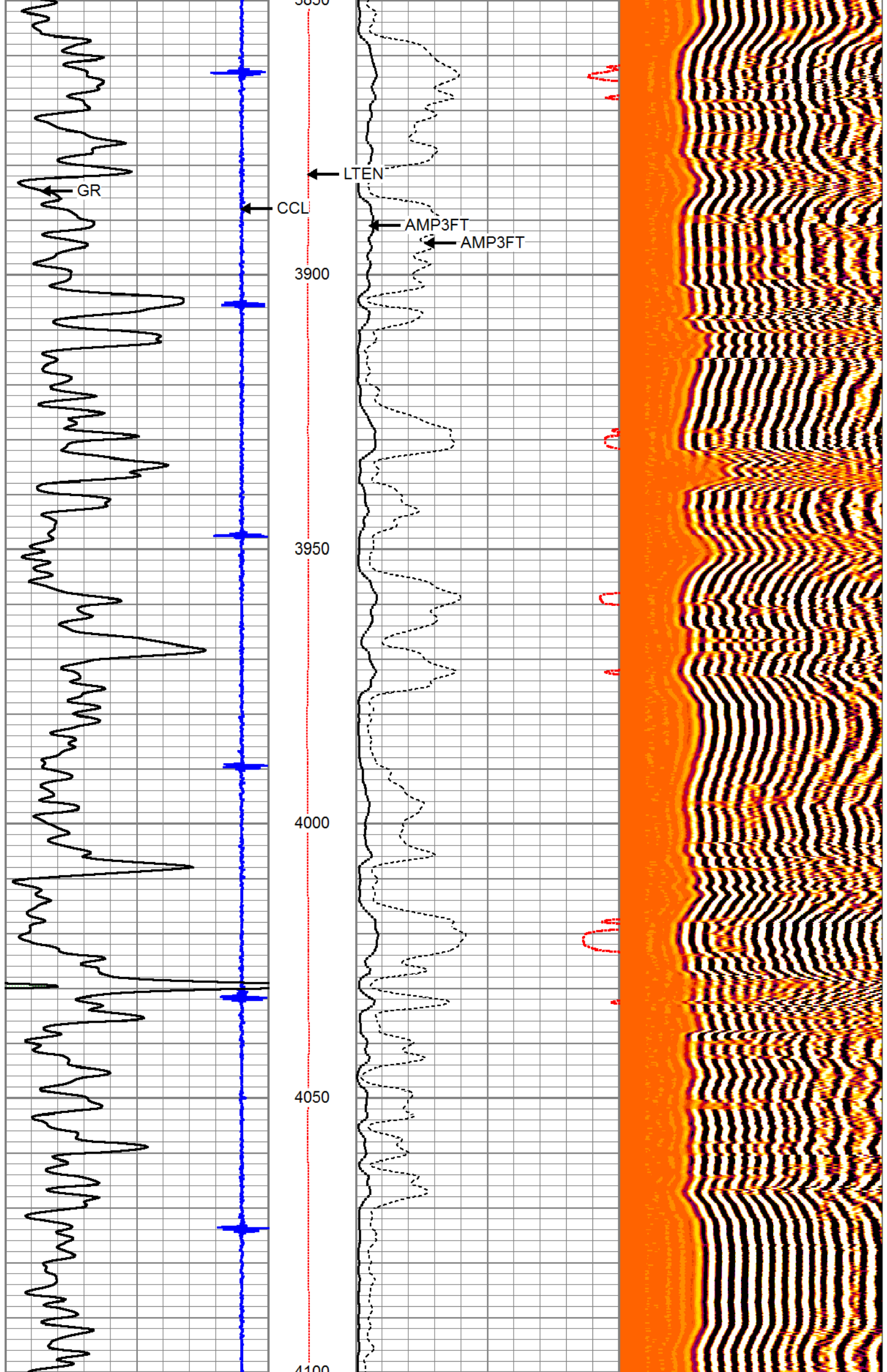


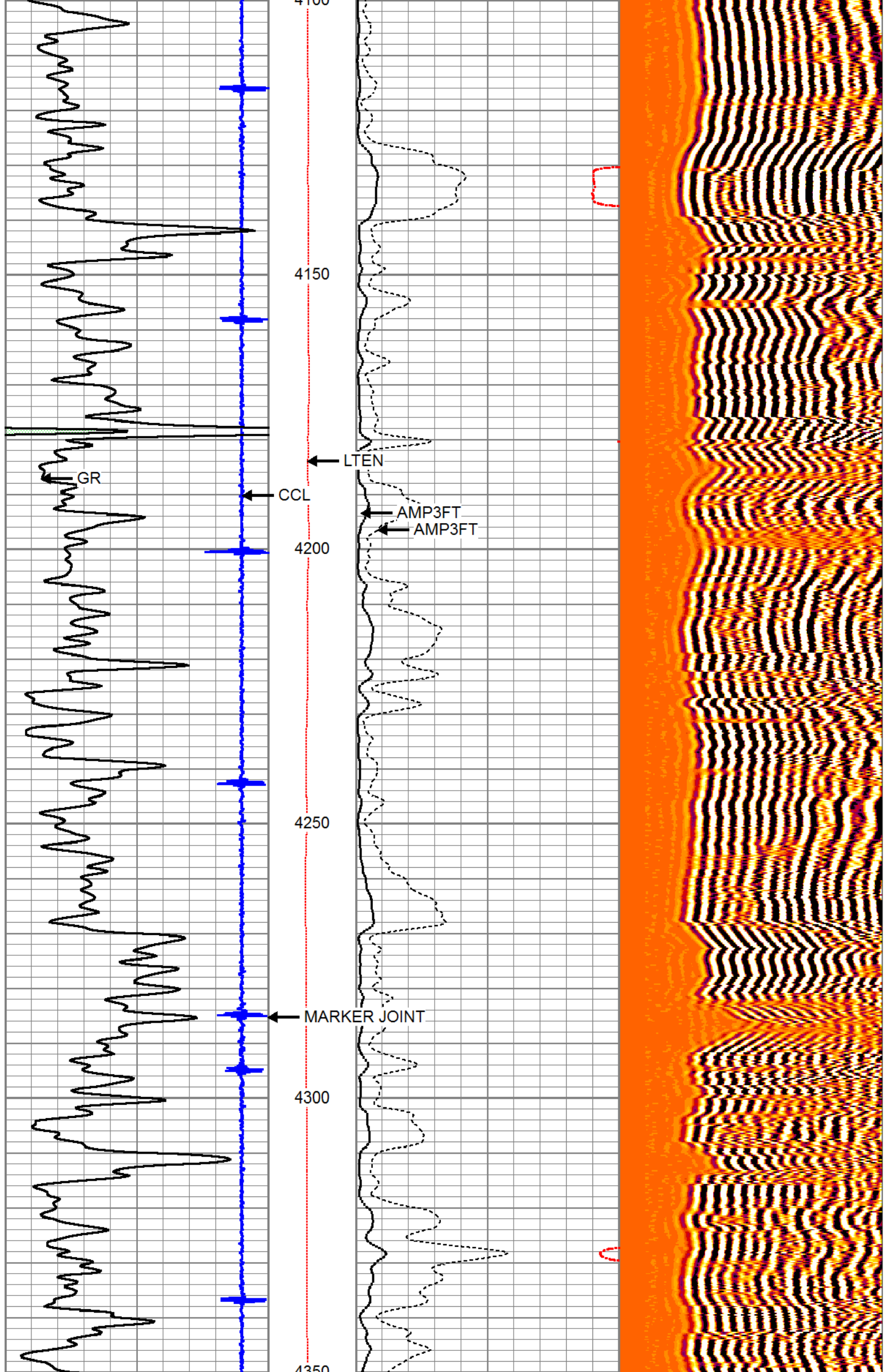


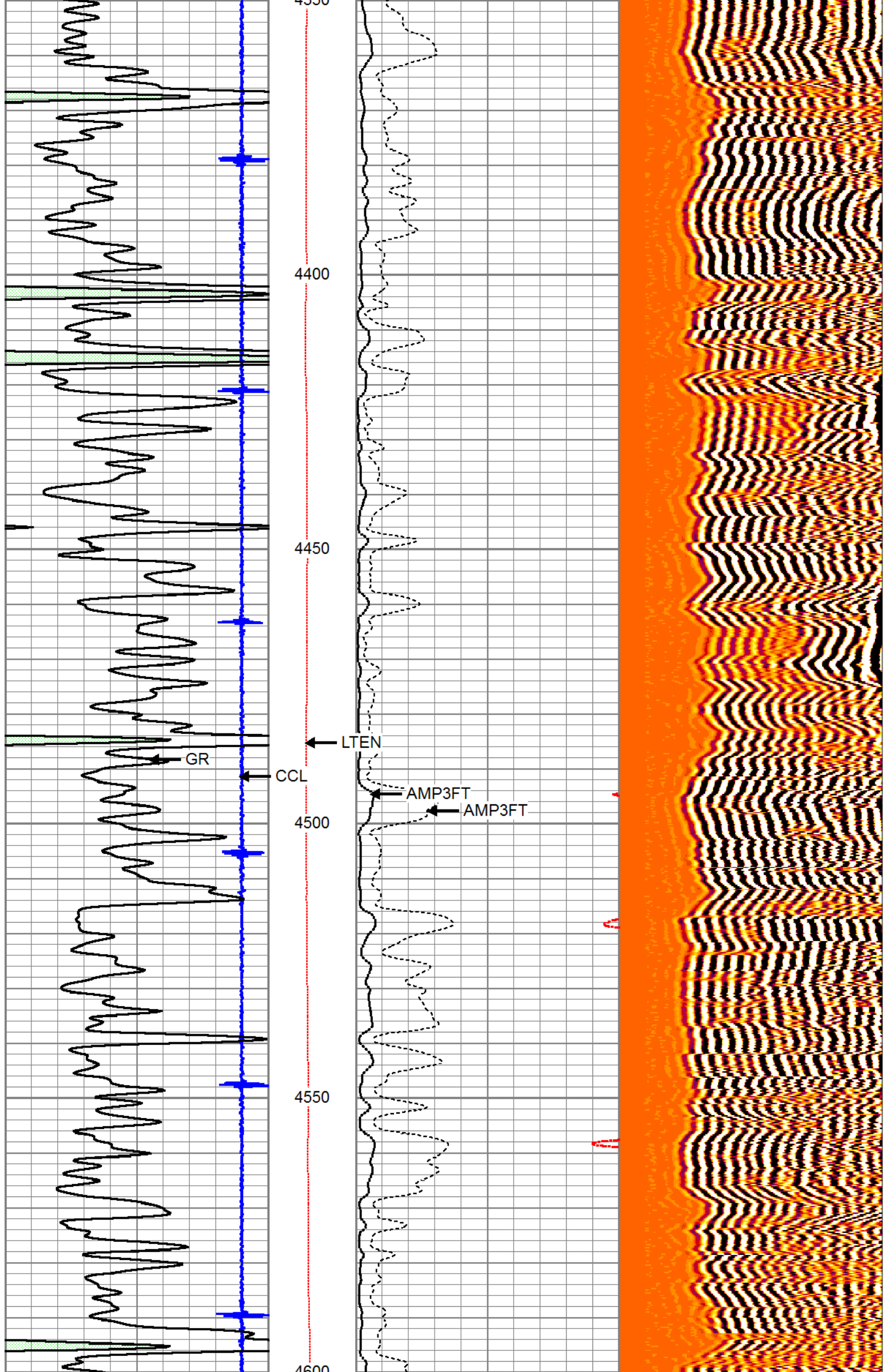


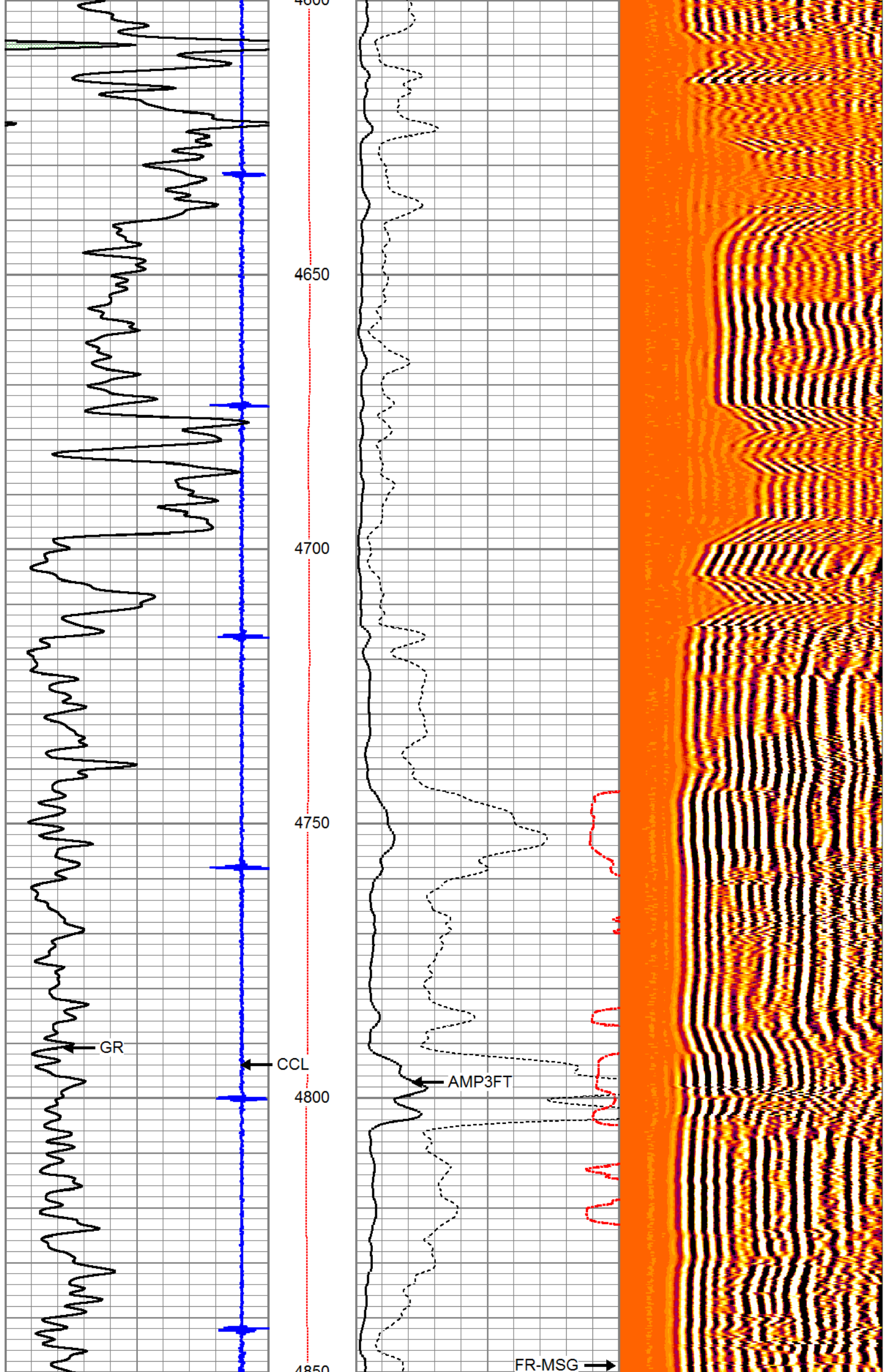


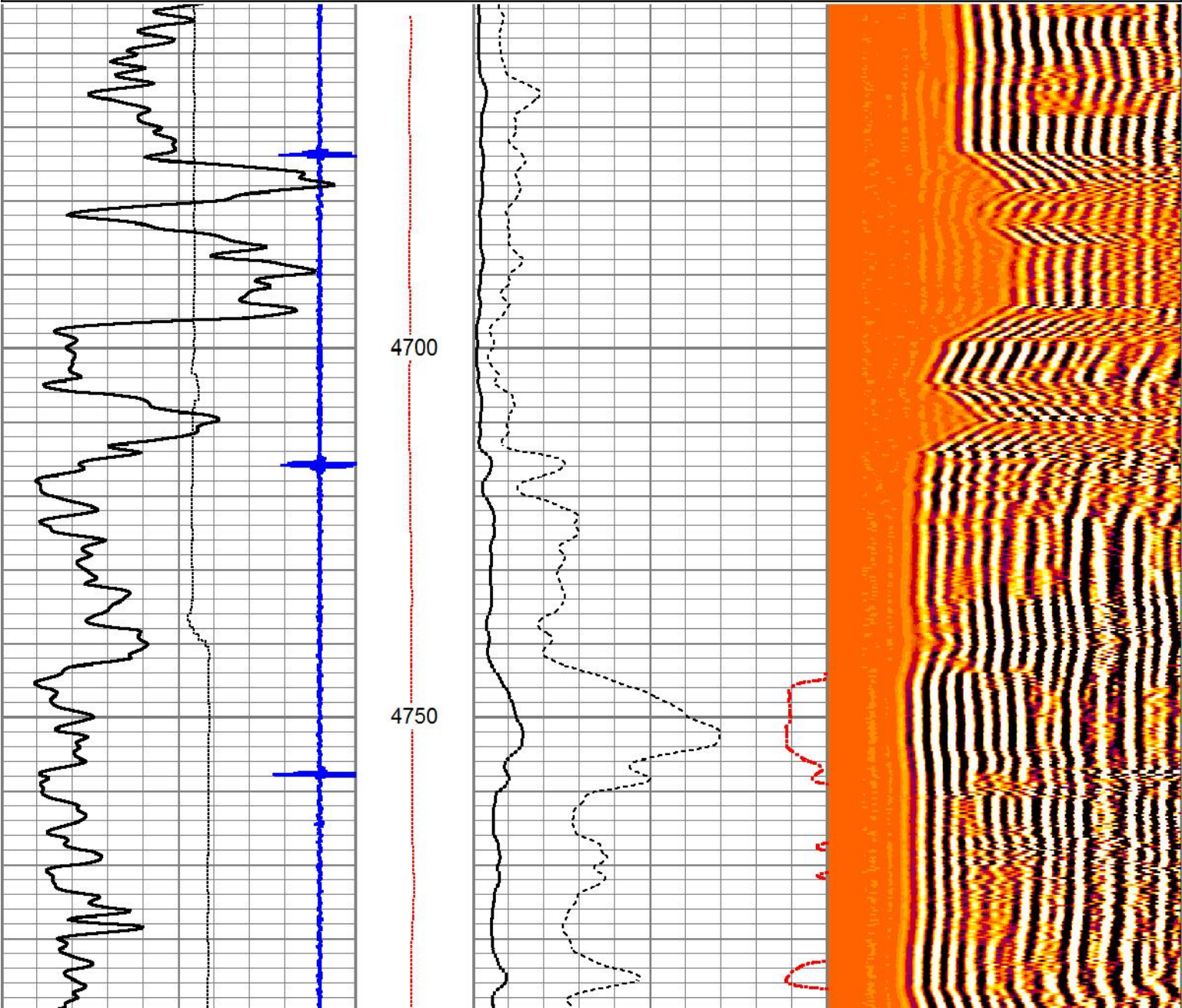
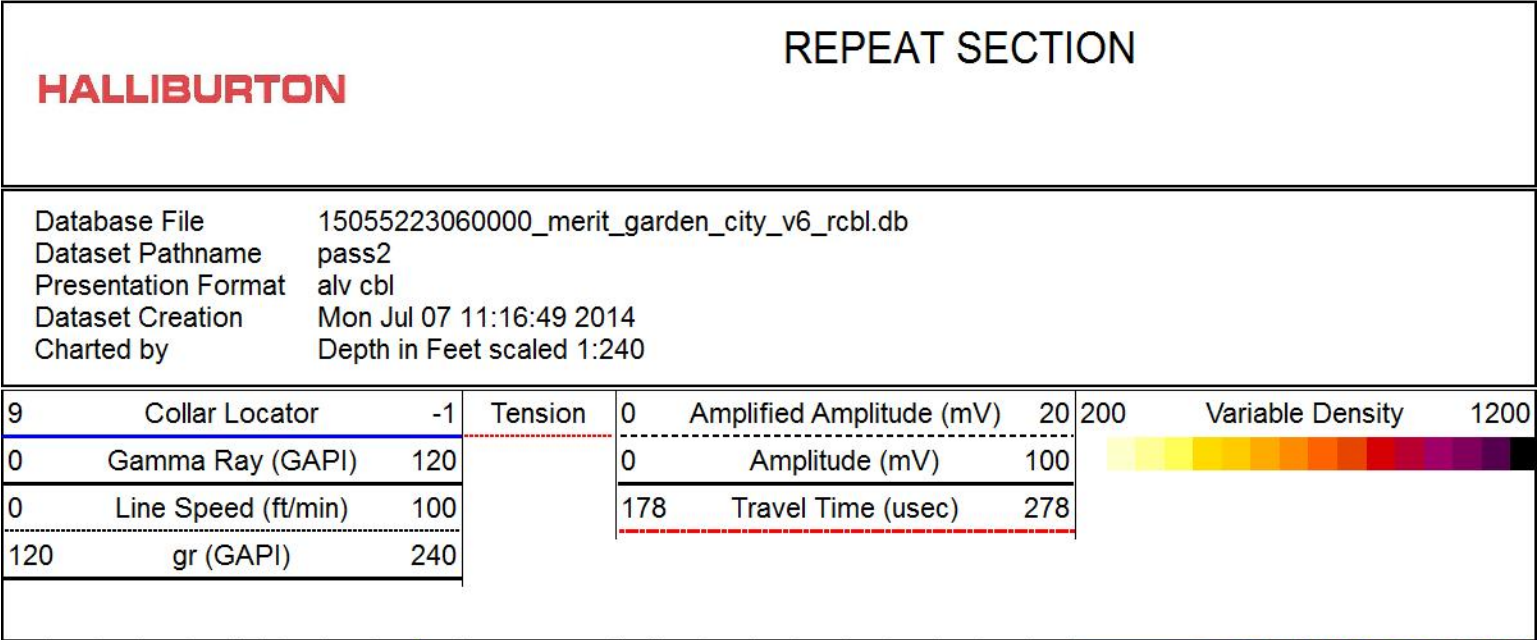
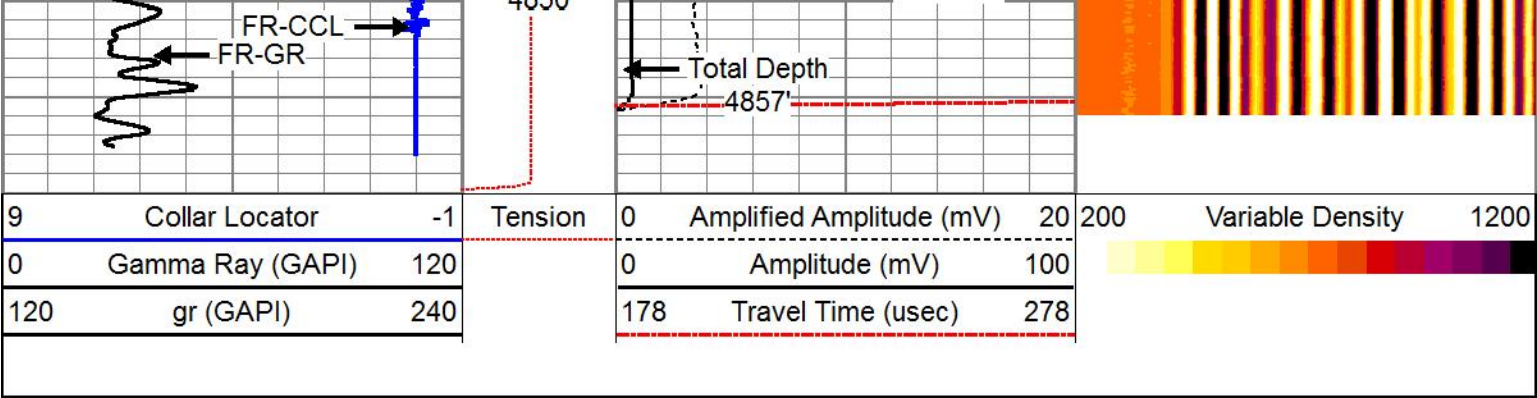


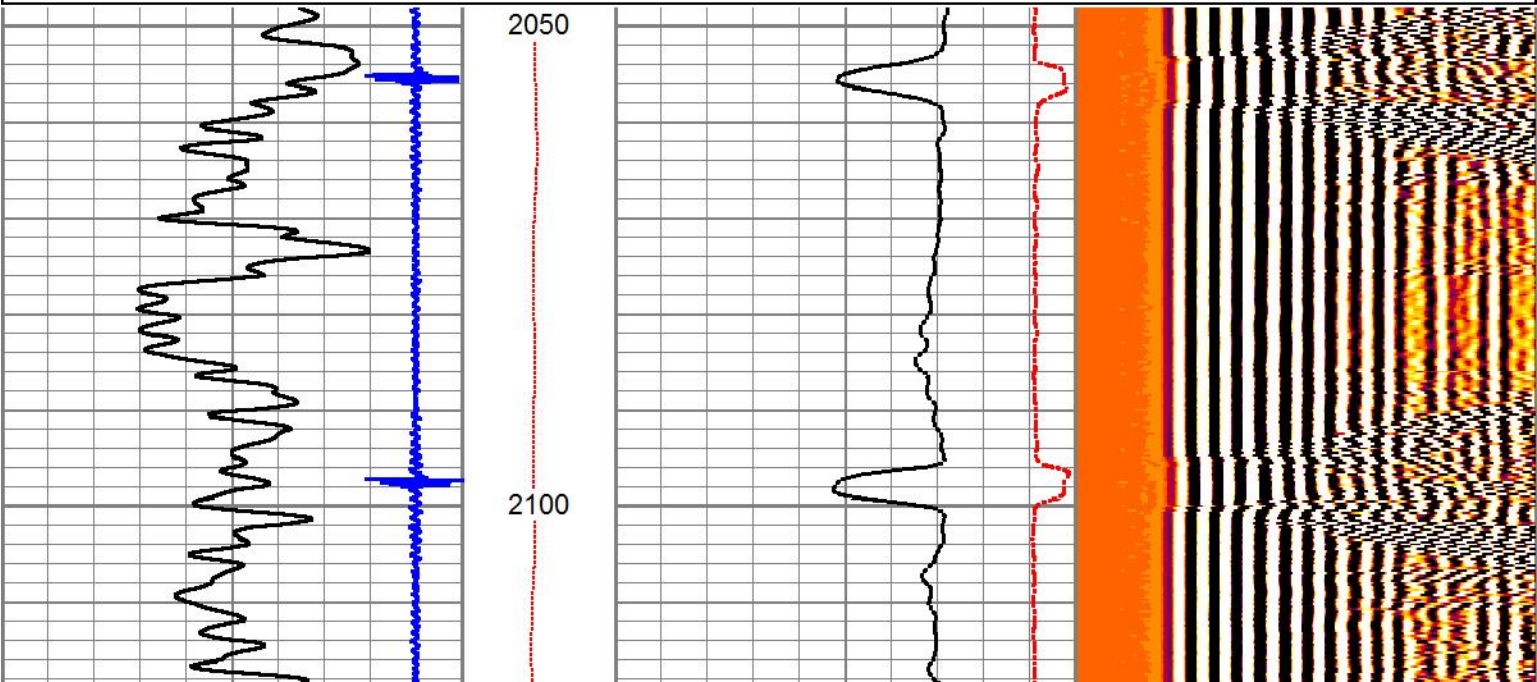
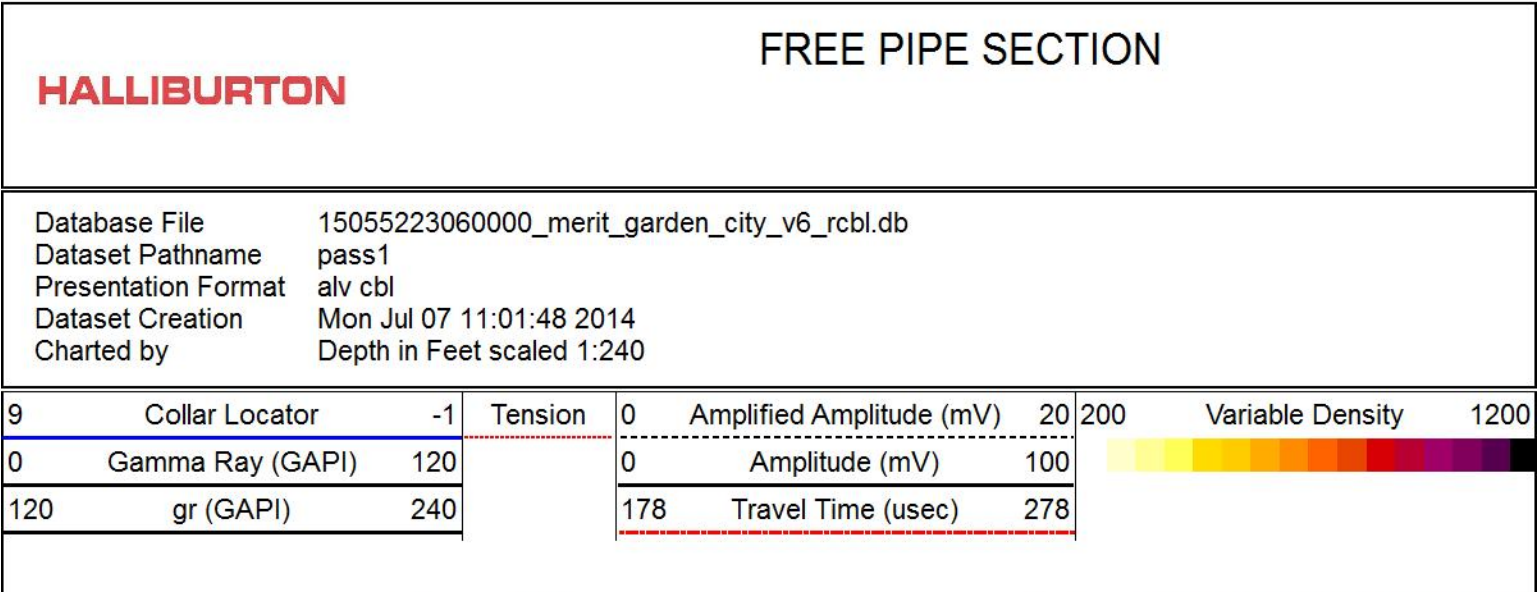
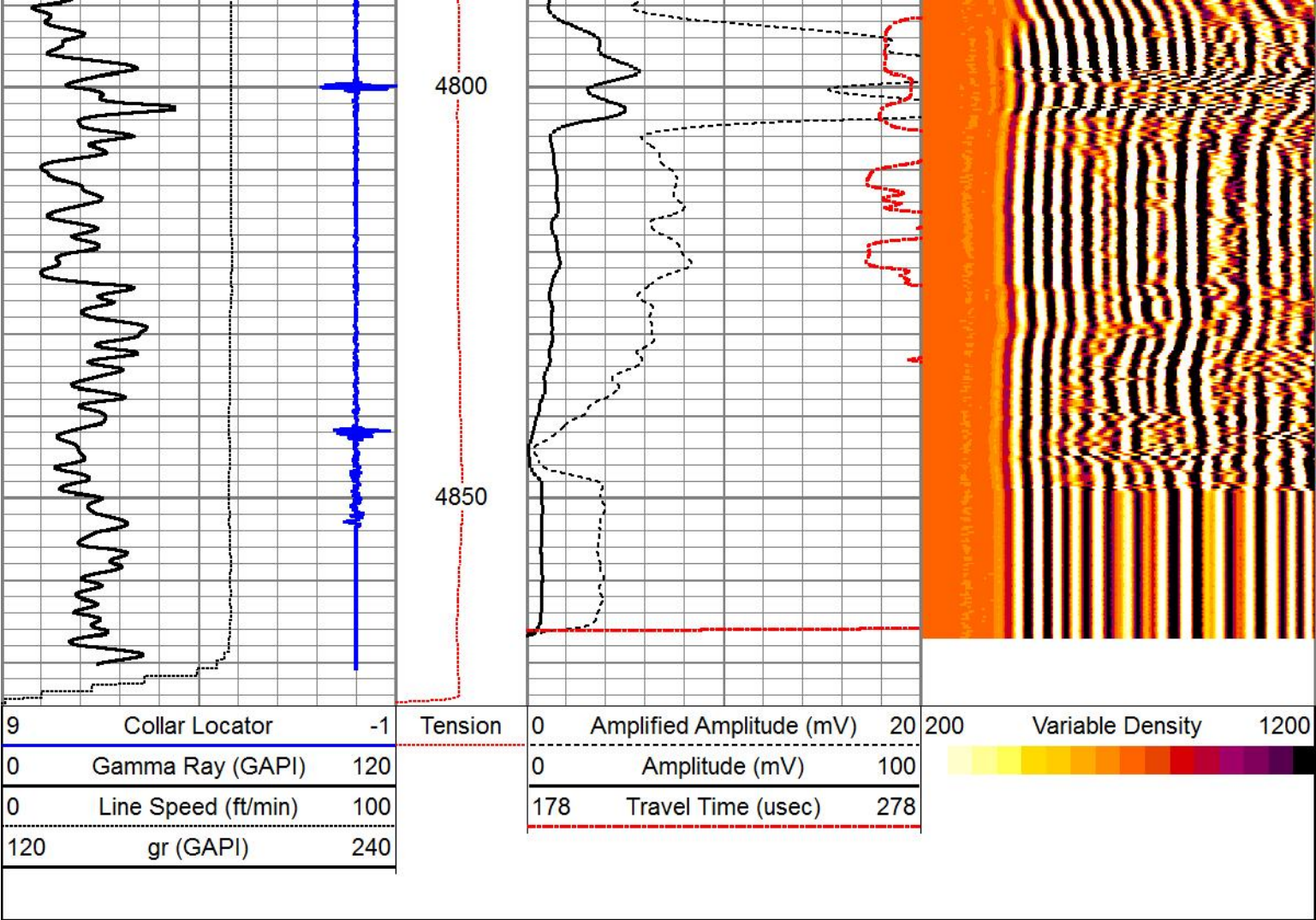


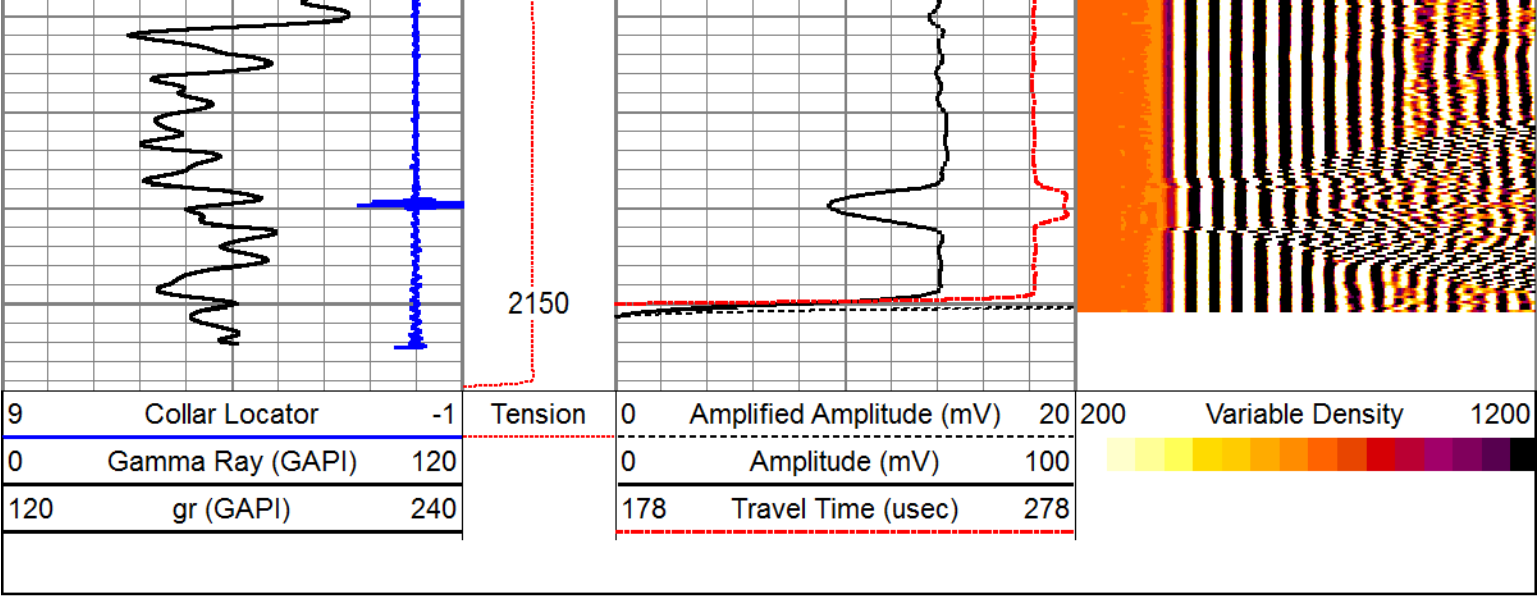












Calibration Report						
Database File	15055223060000_merit_garden_city_v6_rcbl.db					
Dataset Pathname	pass3					
Dataset Creation	Mon Jul 07 11:22:36 2014					
Gamma Ray Calibration Report						
Type / Serial:			Probe275dig / 060738			
SHOP CALIBRATION		Wed Aug 21 17:21:52 2013				
	Counts/Sec.	Gain	Offset	Jig	Units	
Background	55.2				cps	
Calibrator	374.0				cps	
		1.3906			GAPI/cps	
PRIMARY VERIFICATION						
Background	0.0				cps	
Calibrator	0.0				cps	
Difference				0.0	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:	2509.512	ft		

Master Calibration, performed Mon Jul 07 11:48:46 2014:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.013	0.706	0.000	71.921	103.747	-2.508
CAL	0.013	1.052				
5'	0.008	0.684	0.000	71.921	106.327	-0.836
SUM						
S1	0.041	0.756	0.000	100.000	139.977	-5.775

S2	0.017	0.662	0.000	100.000	155.028	-2.646
S3	0.014	0.691	0.000	100.000	147.521	-2.010
S4	0.005	0.788	0.000	100.000	127.747	-0.686
S5	0.001	0.871	0.000	100.000	114.930	-0.084
S6	0.008	0.340	0.000	100.000	301.531	-2.411
S7	0.013	0.803	0.000	100.000	126.641	-1.651
S8	0.017	0.790	0.000	100.000	129.348	-2.226

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.013	1.052	1.000	0.000

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	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 Jun 10 14:52:07 2013		
	Reference	Reading	
Low Reference:	89.00 degF	101.15 degF	
High Reference:	134.00 degF	144.83 degF	
Gain:	1.03		
Offset:	-16.00		
Delta Spacing	1		

Log Variables

DatabaseC:\ProgramData\Warrior\Data\15055223060000_merit_garden_city_v6_rcbl.db
Dataset field/well/run1/pass3

Top - Bottom

BHTEMP_Src	PPT usec	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	SRFTEMP degF
1	0	17	72	1	0.8	0
MudWgt lb/gal	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BITSIZE in
9.5	0	5.5	0	0	100	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
STNDCH	15.03					

			STNDCH-STND_CH 1.4375 IN CABLE HEAD	1.50	1.44	1.00
RBT_PRB275	13.53					
TEMP	11.24					
WVFCAL	9.03		RBT_PRB275-Probe (080640) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
GR_PRB275	4.78					
CCL	3.92					
GR	2.54		GR_PRB275-probe275dig (060738) Probe Digital Gamma CCL	4.78	2.75	57.00
Dataset: 15055223060000_merit_garden_city_v6_rcbl.db: field/well/run1/pass3 Total length: 15.03 ft Total weight: 148.00 lb O.D.: 2.75 in						

Well	GARDEN CITY V-6		
Field	SEQUOYAH SOUTH		
County	FINNEY	State	KANSAS
HALLIBURTON	CEMENT BOND LOG		
	SCALE 1:240		