

CEMENT BOND LOG

SCALE 1:240

Company MERIT ENERGY Well WB SCHERLING 29-3 Field BIG BOW County GRANT State KANSAS				Company MERIT ENERGY Well WB SCHERLING 29-3 Field BIG BOW County GRANT State KANSAS			
Permanent Datum Elevation 3140.2' Log Measured From KB , 15 Ft. above perm. datum Drilling Measured From				Sec: 29 Twp: 29S Rge: 38W 1568' FSL & 1586' FWL N/A			
API No.: 15-067-21808 Serv #: 12 Location: 1568' FSL & 1586' FWL Other Services							
Date @ Time Logged 14 JAN 2015 @ 15:30 Type Fluid in Hole WATER Run No. ONE Density of Fluid 8.33 Depth - Driller 5975' Fluid Level 40' Bottom - Logger 5910' Cement Top Est. Logged 3060' Top - Log Interval 5907.5' Equipment / Location 10971670 / LIB Max. Recorded Temp. 2860' Recorded by P. NICHOLS CEMENTING DATA 143 F Witnessed by N/A				Date / Time Cemented String Protection String Production Liner Primary / Squeeze Expected Compressive Strength psi @ hrs psi @ hrs psi @ hrs Cement Volume Cement Type / Weight / Formulation Mud Type / Mud Wgt. /			
Borehole Record Run Number Bit From To Size Weight From To ONE 8.625" 24# SURFACE 1522' TWO 5.5" 17# SURFACE 5975'				Casing & Tubing Record Casing Size Weight From To 24" 17# SURFACE 1522'			

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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.

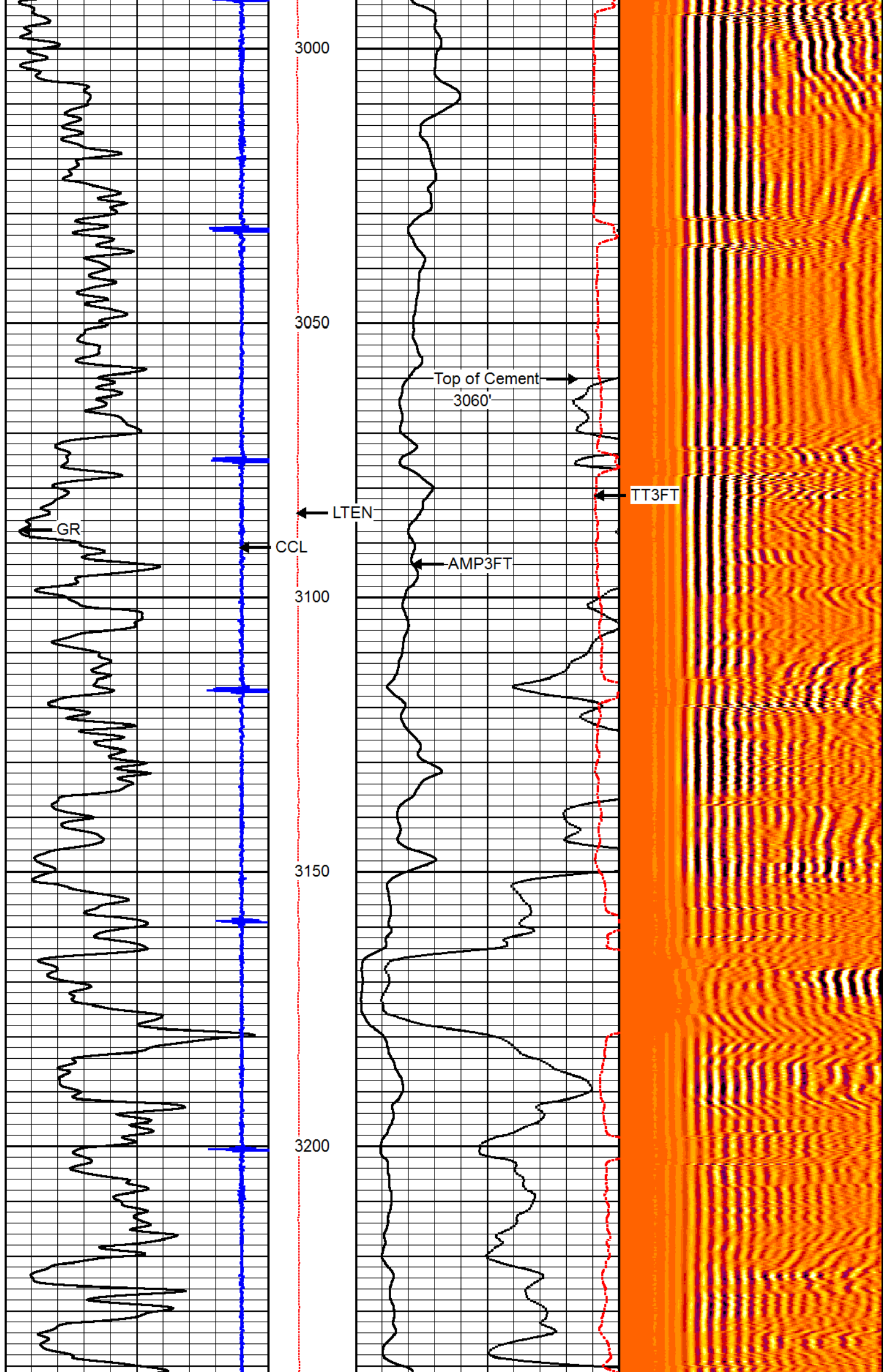
Comments

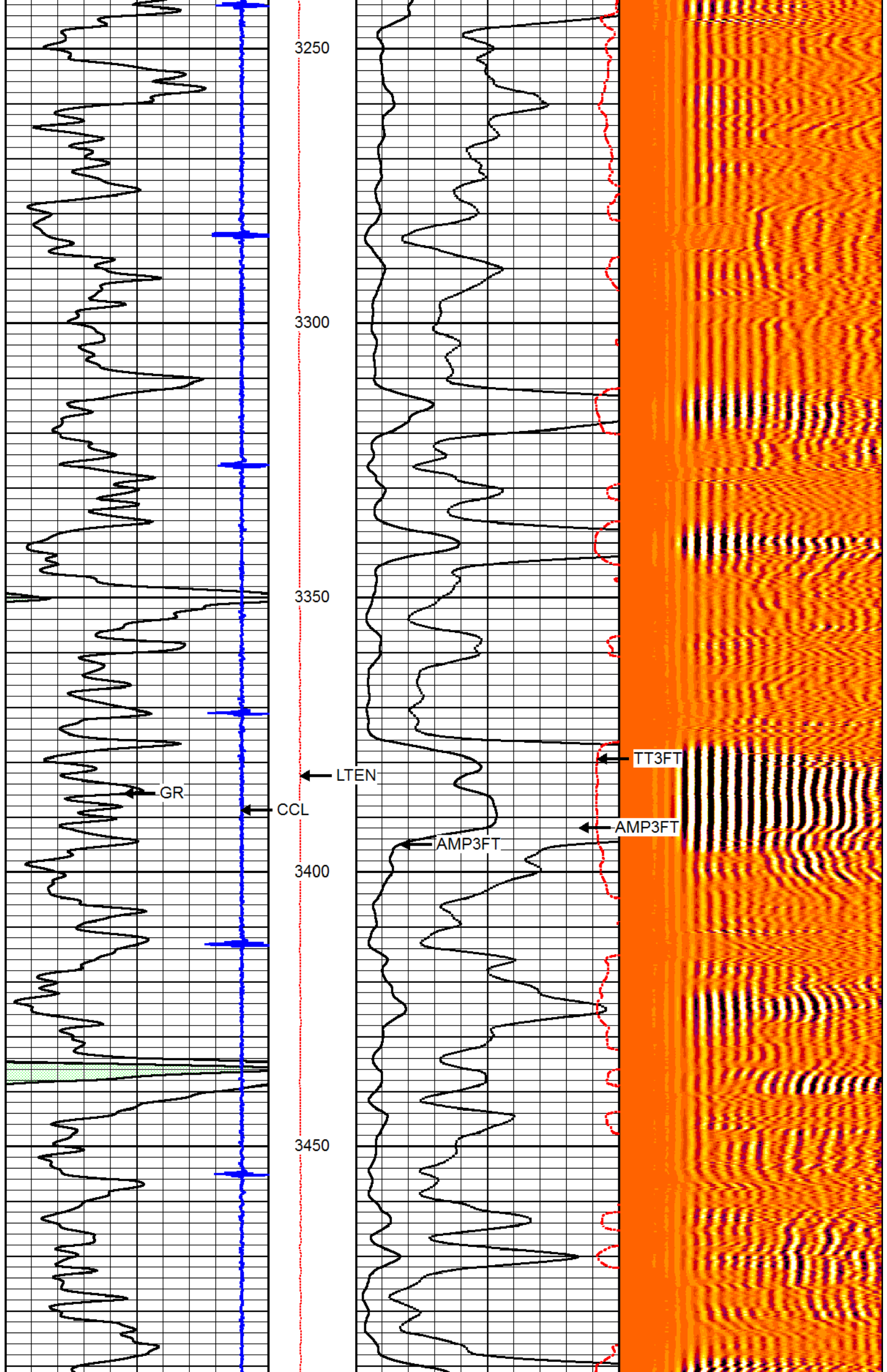
CORRELATED TO HES DENSITY LOG DATED 09 JAN 2015'.

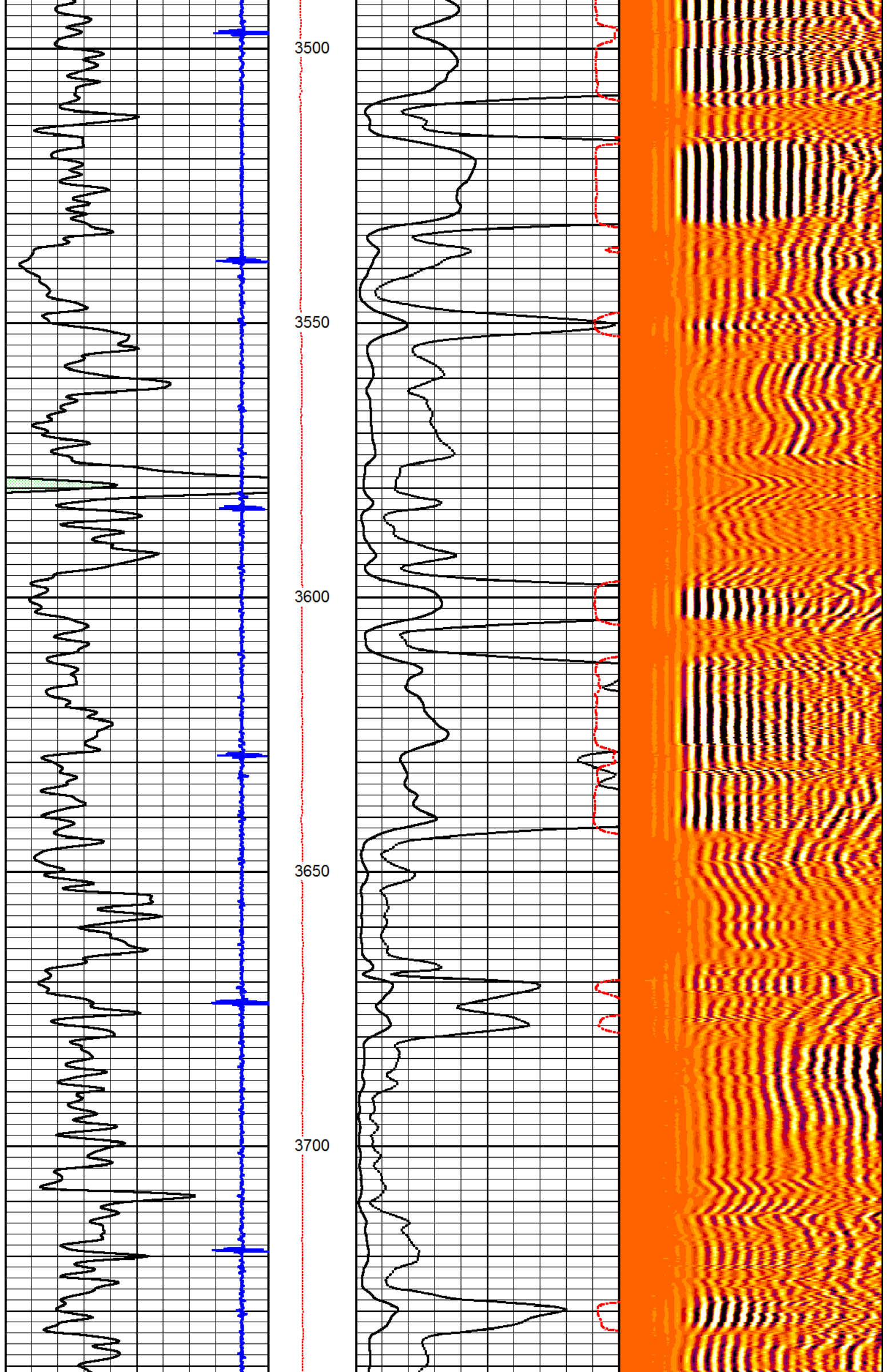
MARKER JOINT @ 5305'
DEPTH CORRECTION -10'

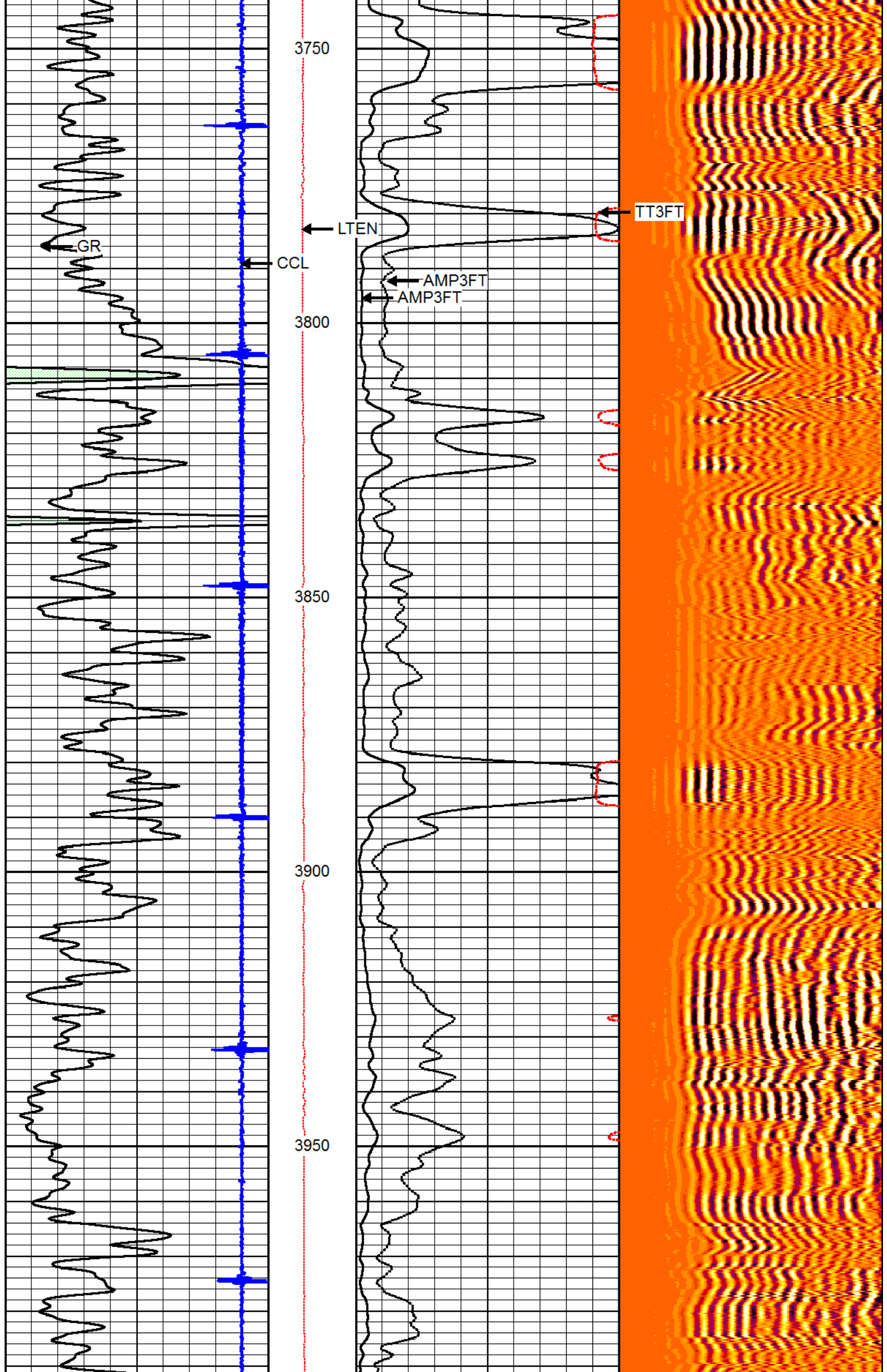
CREW :HUMISTON.
THANKYOU FOR USING HES.

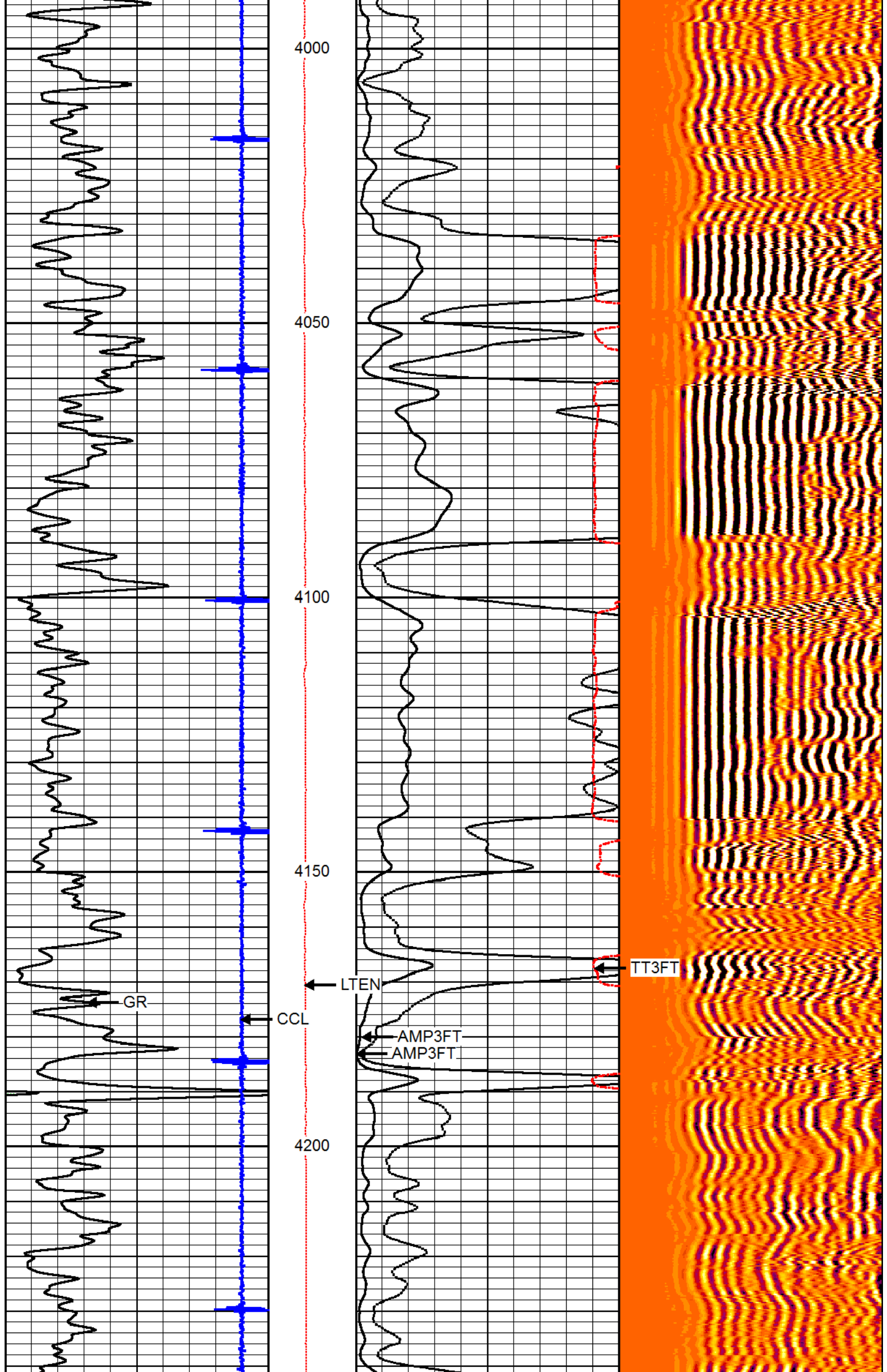
Service Ticket No.	902036336	API No.	15067218080000	PGM Ver	
The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client					
EQUIPMENT DATA					
RCBL		gamma			
Run No.	ONE	Run No.	ONE	Run No.	
Serial No.	080640	Serial No.	060738	Serial No.	
Model No.	PROBE	Model No.	PROBE	Model No.	
Diameter	2.75'	Diameter	2.75"	Diameter	
LOGGING DATA					
General Data					
Pass	Depths		Well Head	Speed	Logging Run Comments
No	From	To	Pressure	Ft/Min	

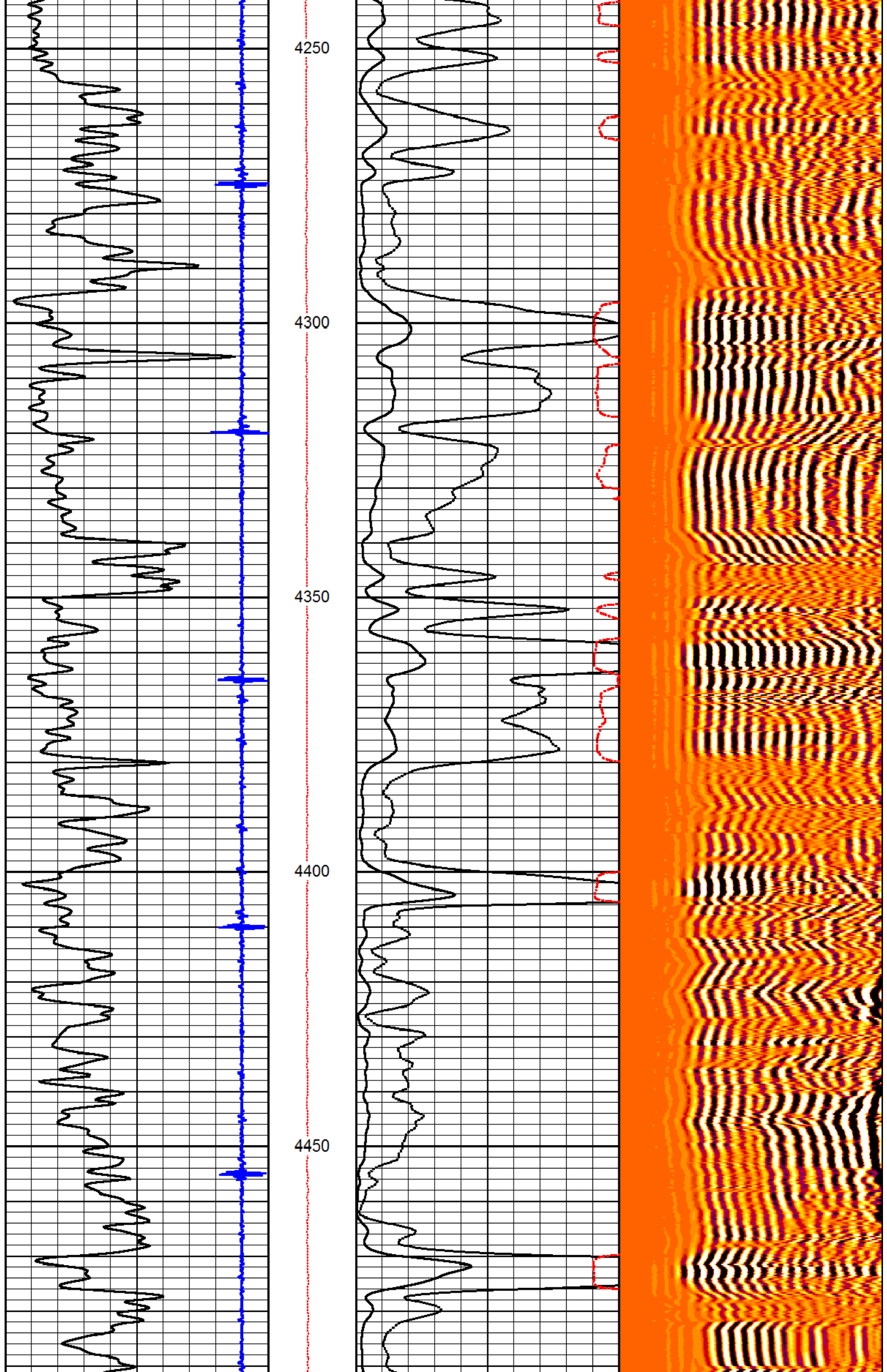


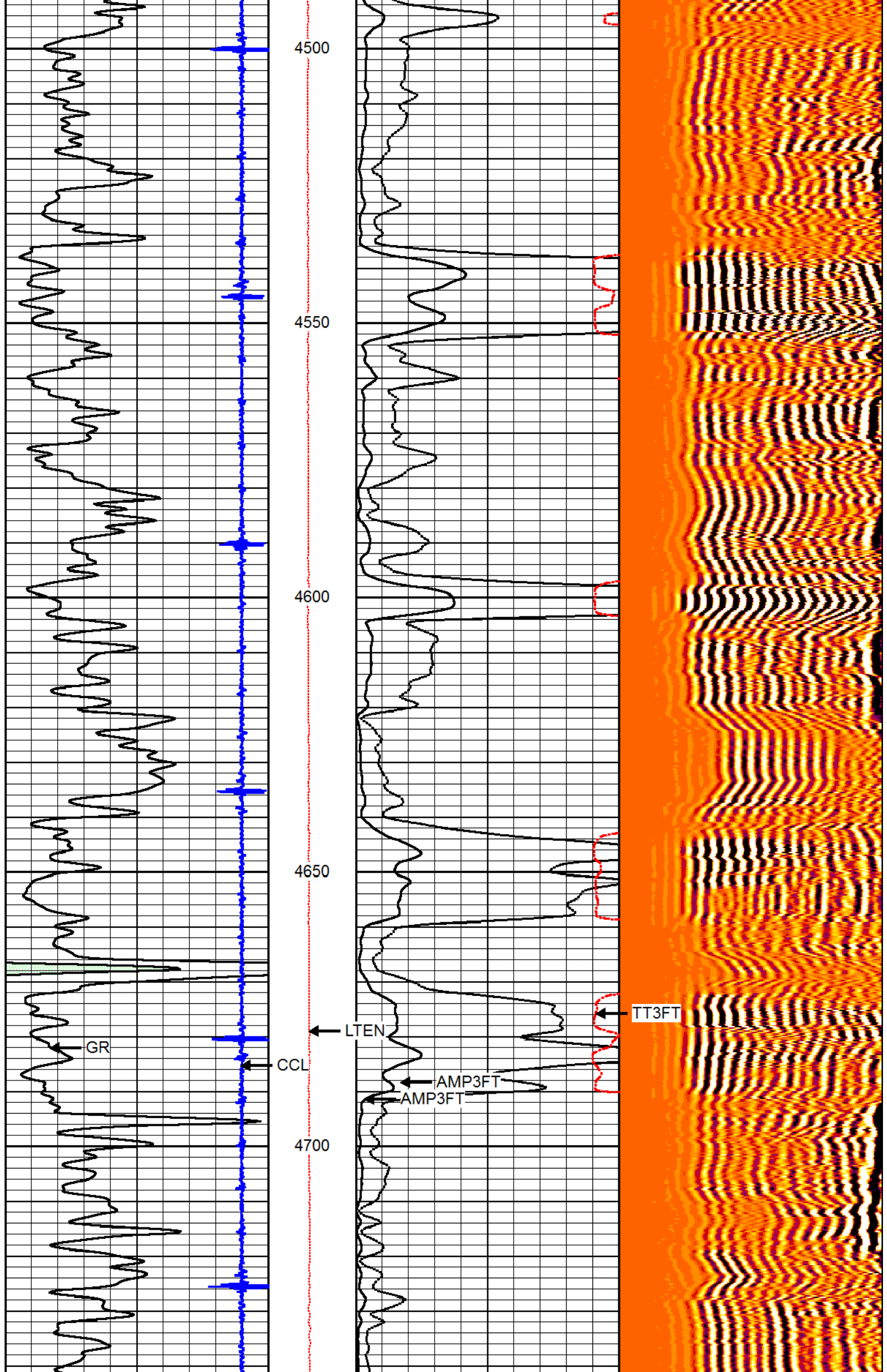


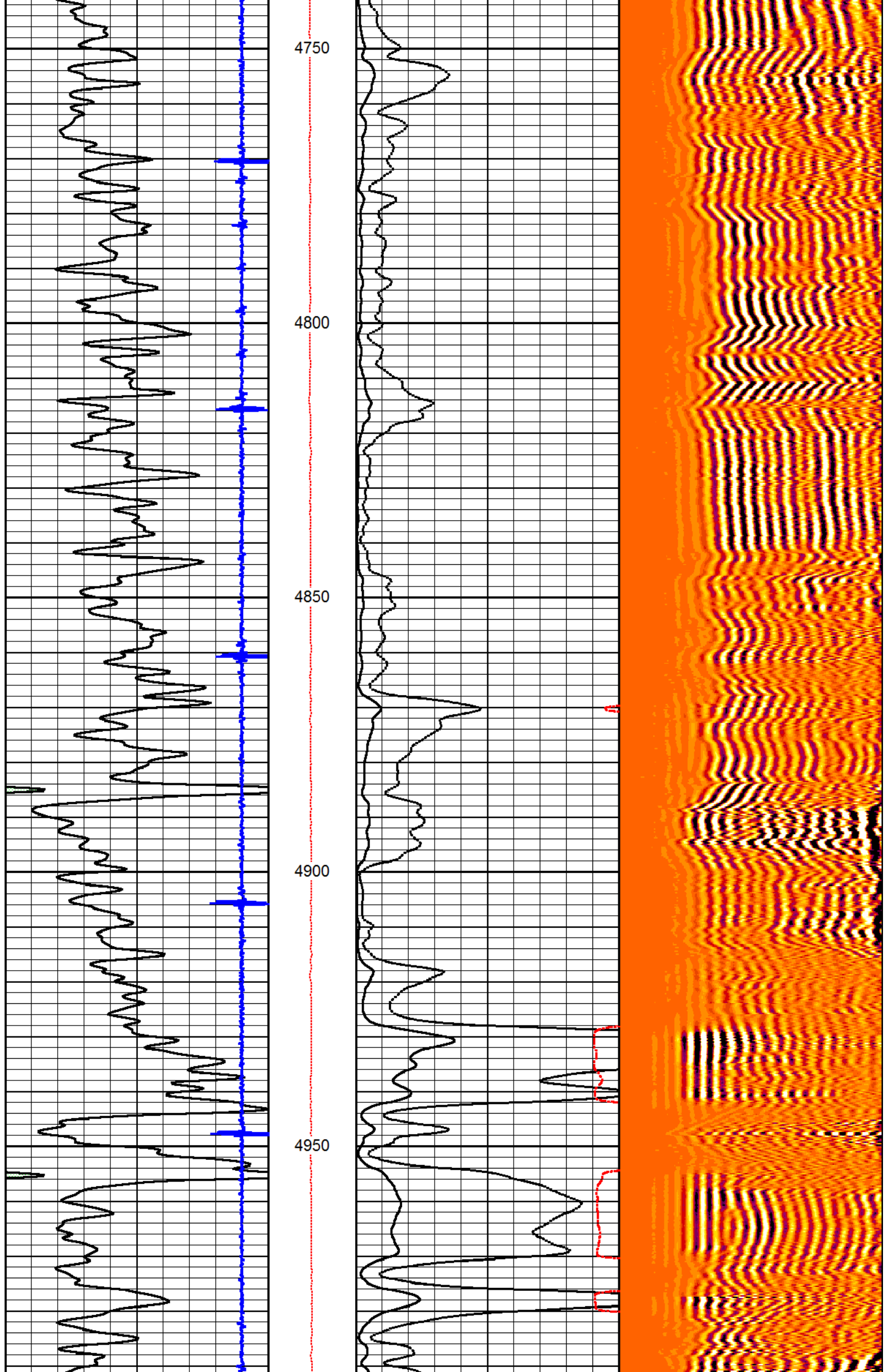


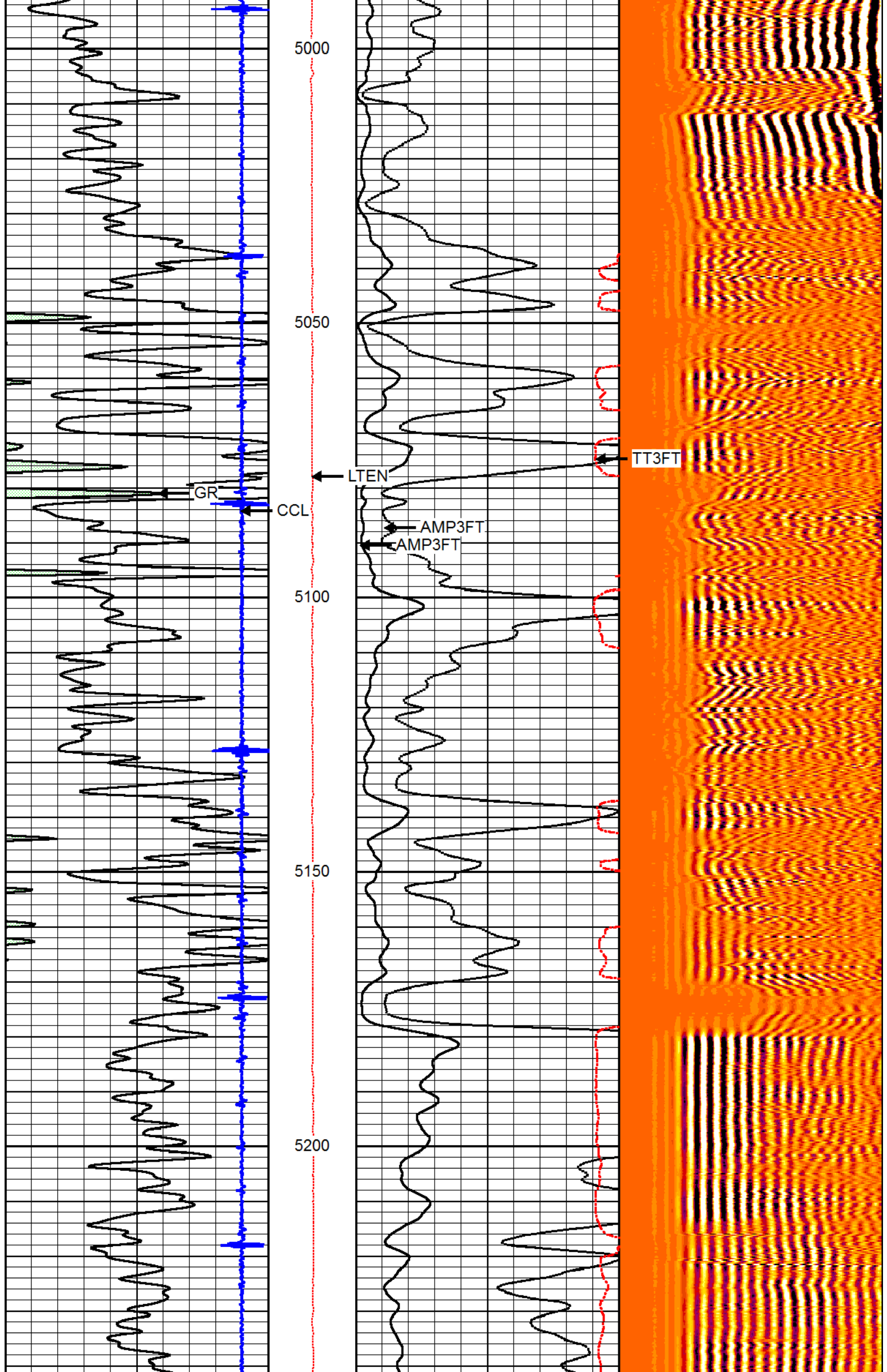


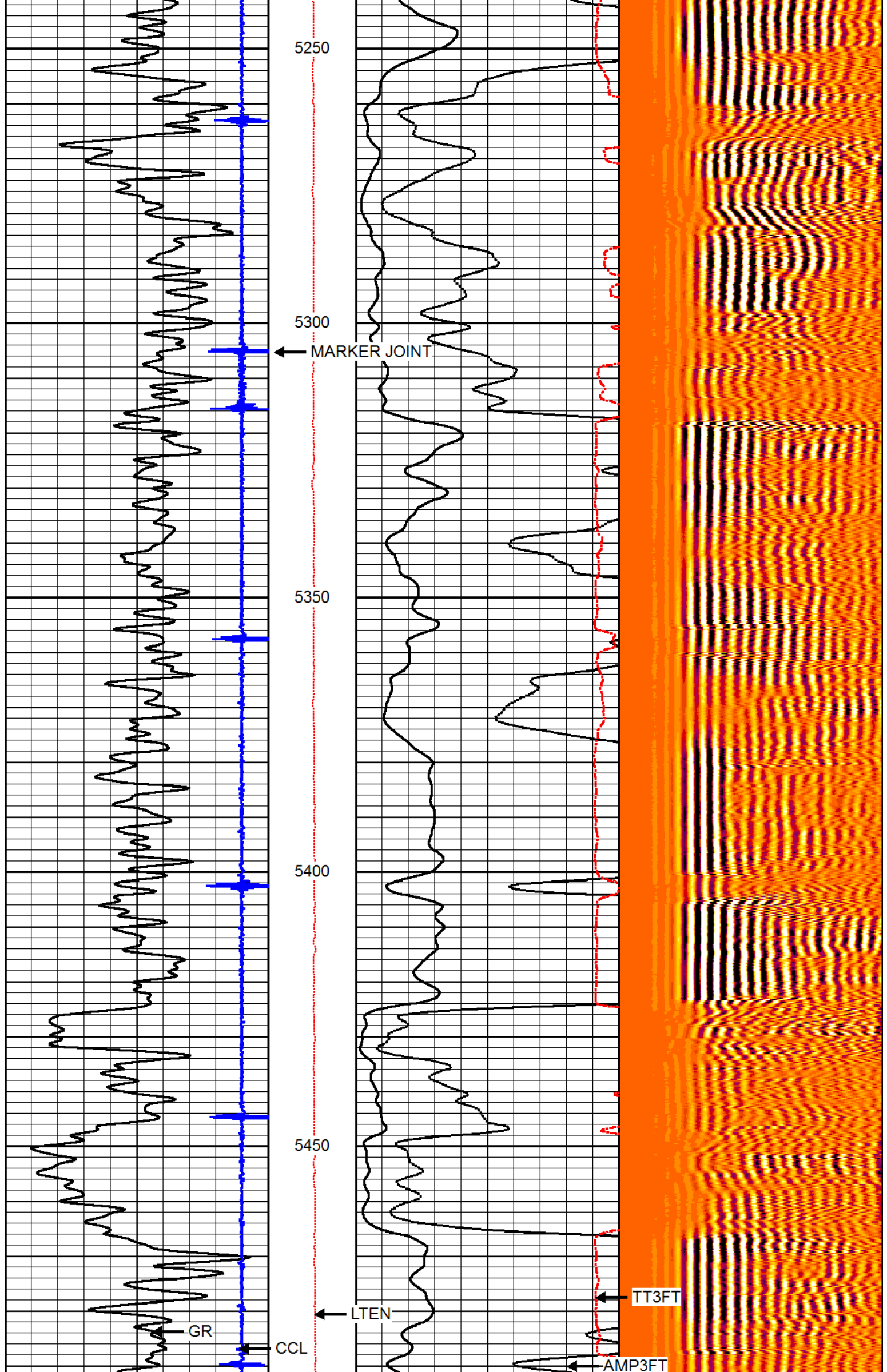


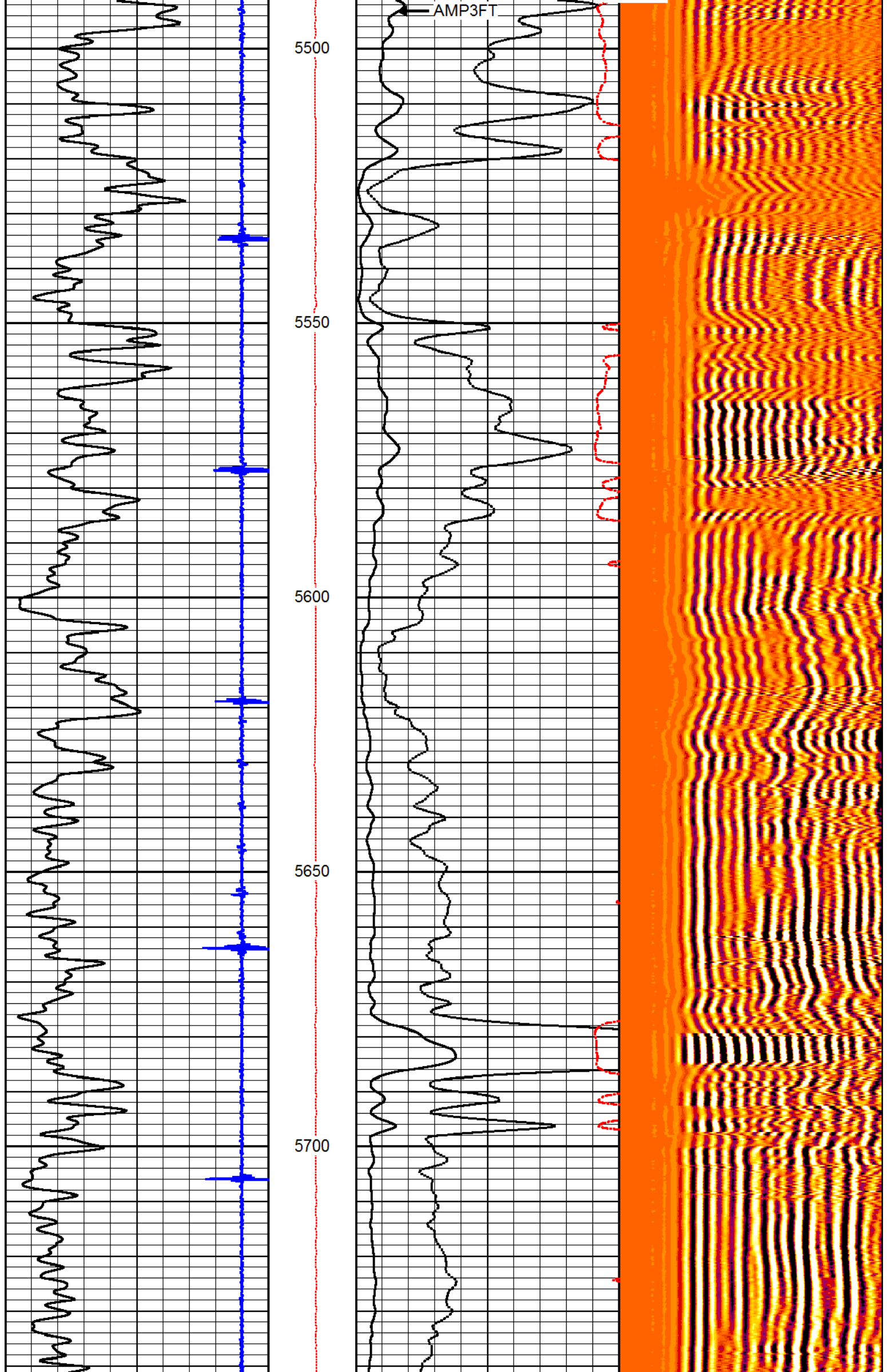


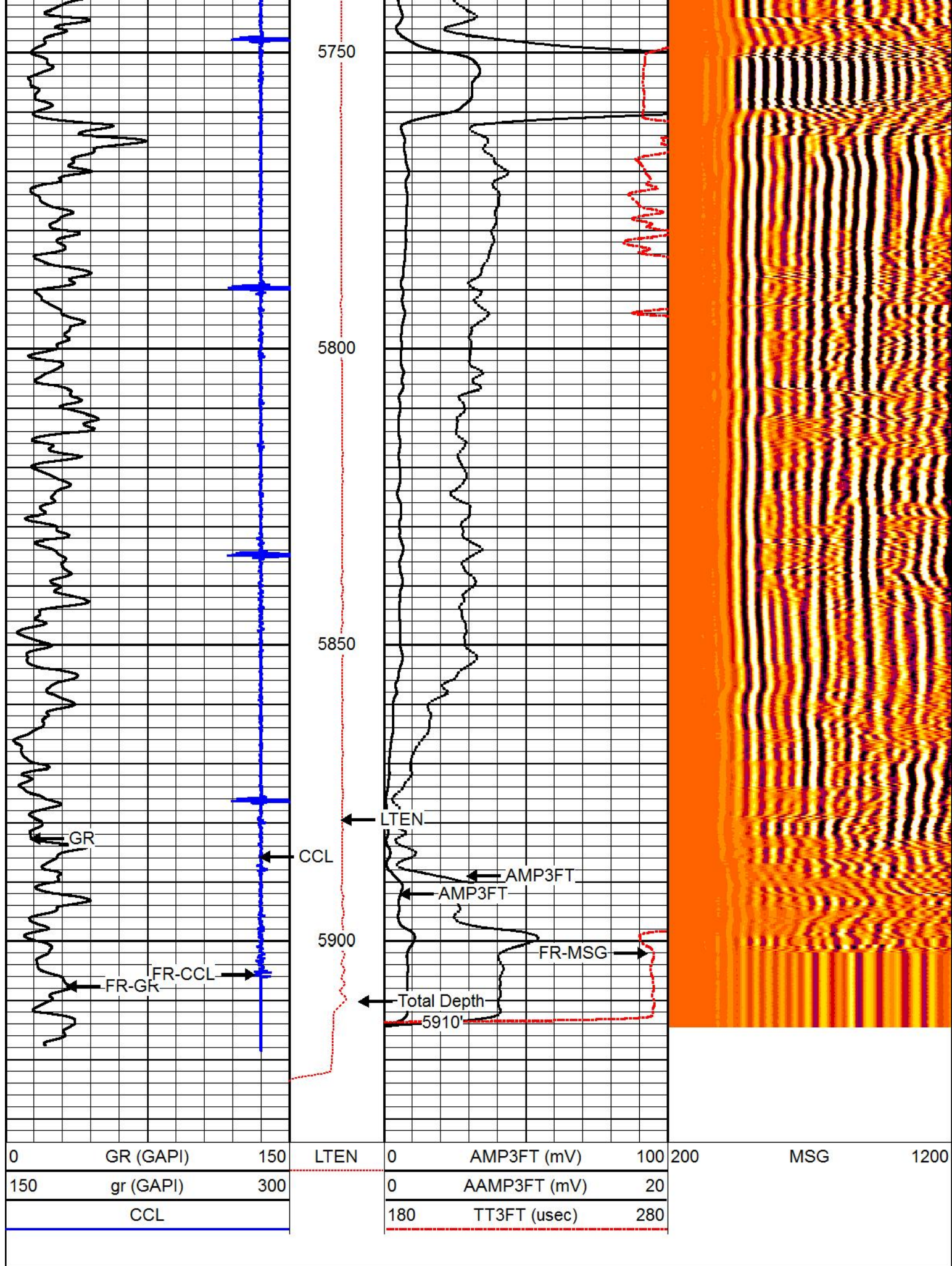








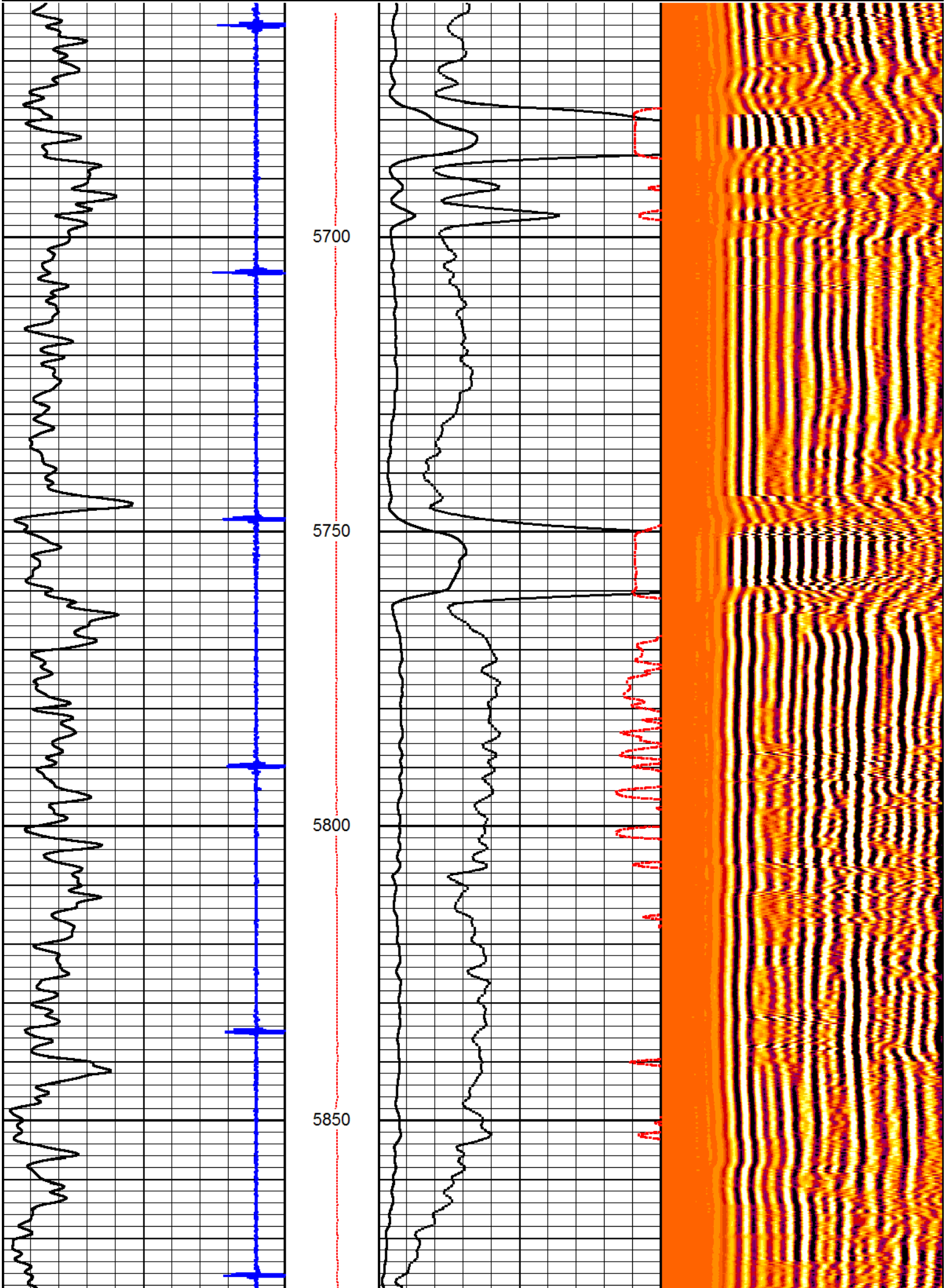


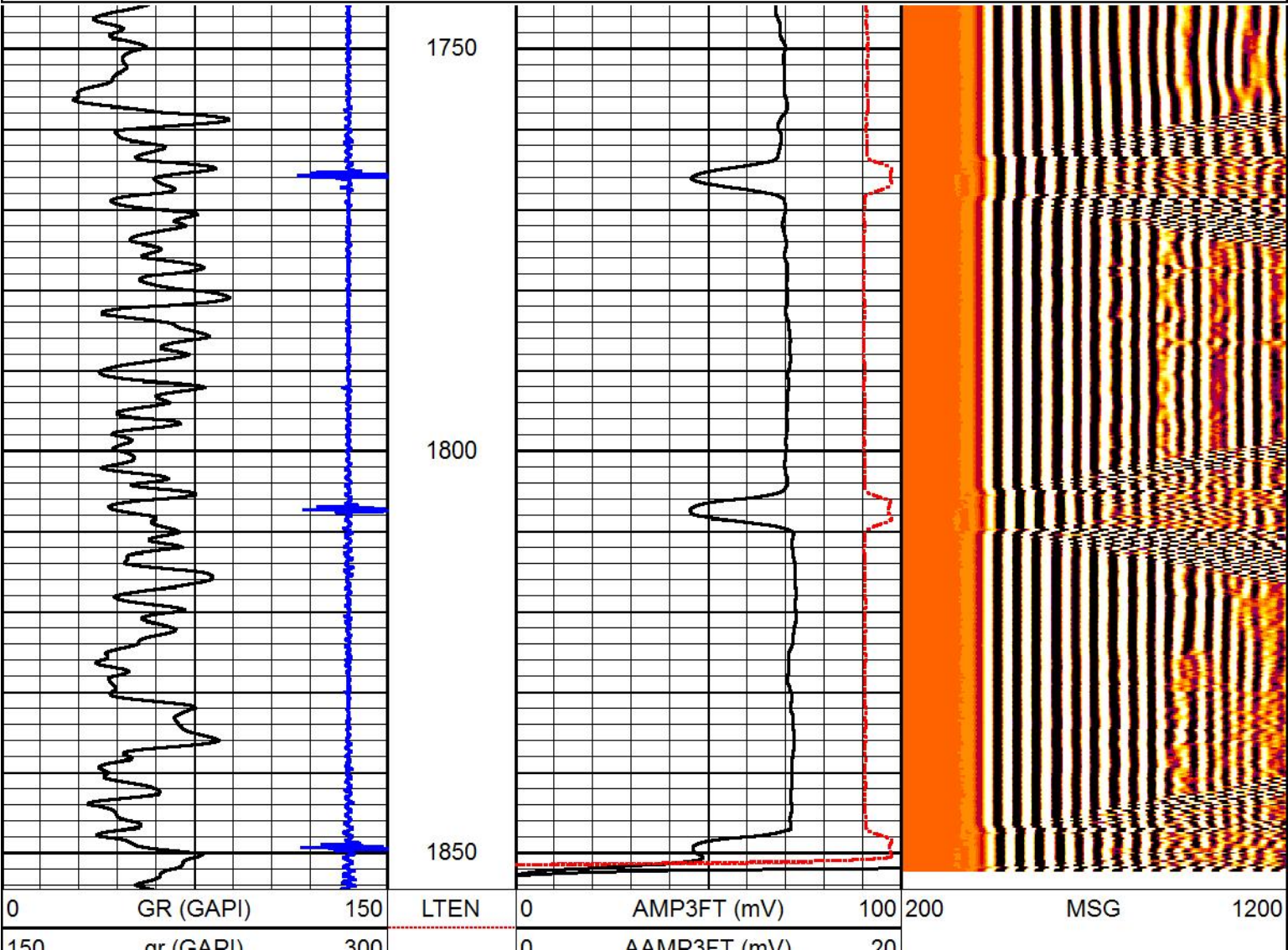
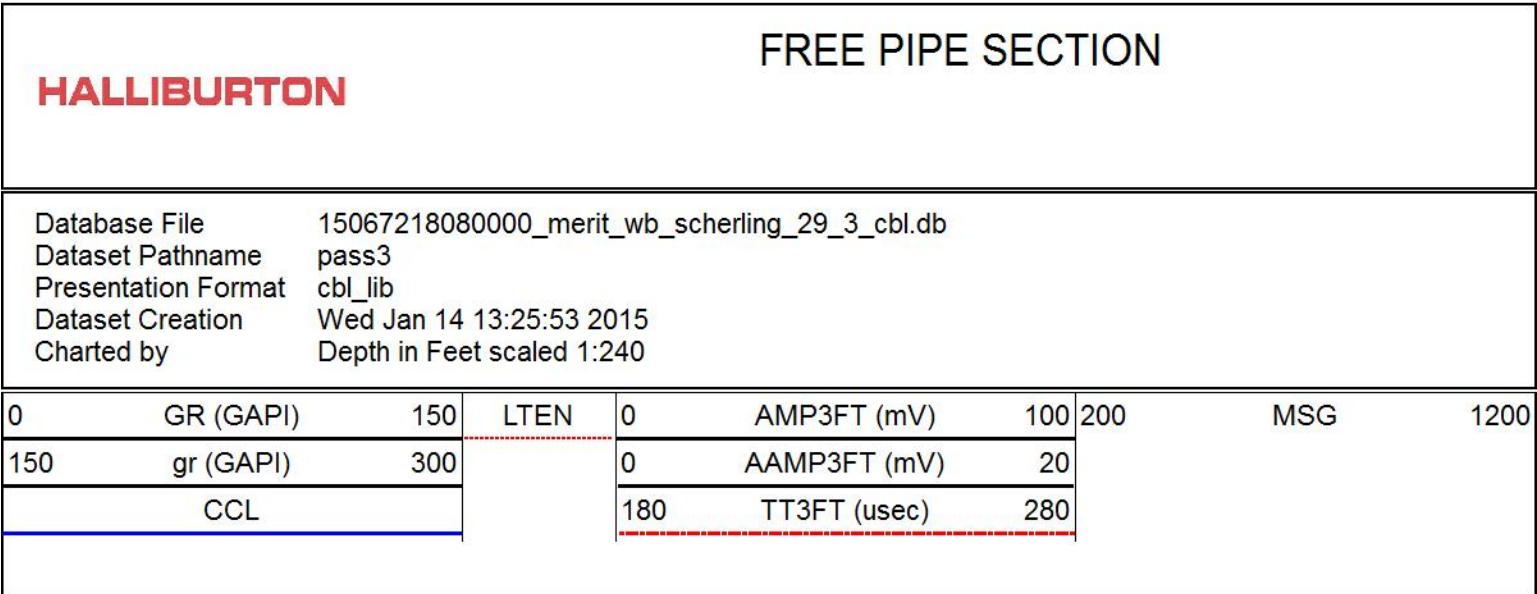
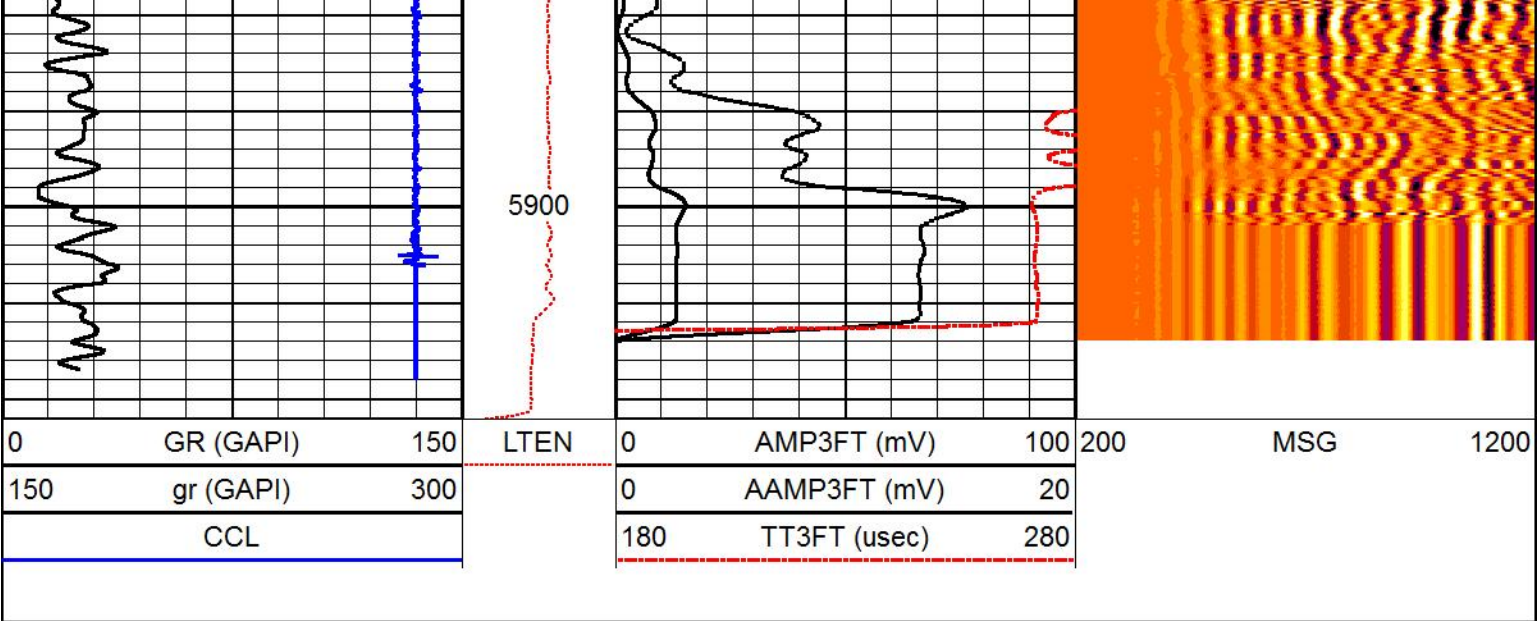


REPEAT SECTION

HALLIBURTON

0	GR (GAPI)	150	LTEN	0	AMP3FT (mV)	100	200	MSG	1200
150	gr (GAPI)	300		0	AAMP3FT (mV)	20			
CCL				180	TT3FT (usec)	280			





150	gr (GAPI)	500	0	AAI (mV)	20
CCL			180	TT3FT (usec)	280

Calibration Report					
Database File	15067218080000_merit_wb_scherling_29_3_cbl.db				
Dataset Pathname	pass5				
Dataset Creation	Wed Jan 14 13:49:45 2015				
Gamma Ray Calibration Report					
Type / Serial:		Probe275dig / 060738			
SHOP CALIBRATION		Mon Dec 22 13:33:13 2014			
	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:		1840.702	ft			
Master Calibration, performed Wed Jan 14 13:25:38 2015:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.015	0.631	0.500	71.921	115.828	-1.221
CAL	0.012	0.818				
5'	0.011	0.605	0.500	71.921	120.115	-0.764
SUM						
S1	0.018	0.683	0.000	100.000	150.243	-2.680
S2	0.016	0.646	0.000	100.000	158.794	-2.502
S3	0.016	0.587	0.000	100.000	175.151	-2.747
S4	0.015	0.537	0.000	100.000	191.576	-2.912
S5	0.016	0.564	0.000	100.000	182.706	-2.980
S6	0.015	0.646	0.000	100.000	158.563	-2.394
S7	0.015	0.702	0.000	100.000	145.475	-2.179
S8	0.015	0.707	0.000	100.000	144.633	-2.221

Internal Reference Calibration, performed (Not Performed):					
Raw (v)		Calibrated (v)		Results	
Zero	Cal	Zero	Cal	Gain	Offset

CAL	0.000	0.000	0.012	0.818	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	

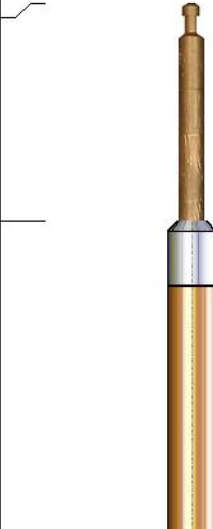
Temperature Calibration Report			
Serial Number:	080640		
Tool Model:	Probe		
Performed:	Mon Jun 10 14:52:07 2013		
	Reference	Reading	
Low Reference:	89.00 degF	101.15 degF	
High Reference:	134.00 degF	144.83 degF	
Gain:	1.03		
Offset:	-16.00		
Delta Spacing	1		

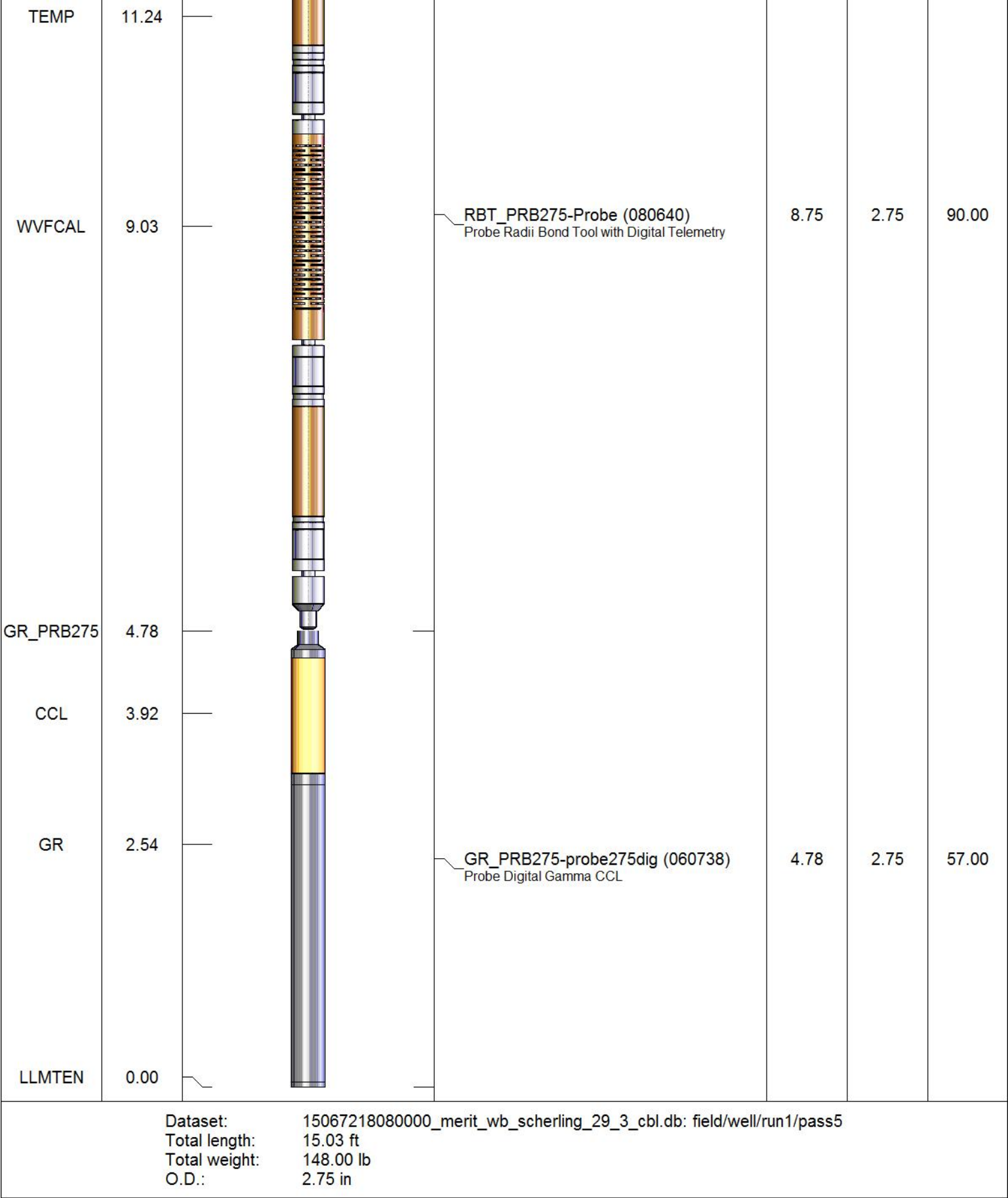
Log Variables

DatabaseC:\ProgramData\Warrior\Data\15067218080000_merit_wb_scherling_29_3_cbl.db
Dataset field/well/run1/pass5

Top - Bottom

BHTEMP_Src 1	PPT usec 270	CASEWGHT lb/ft 17	MAXAMPL mV 72	MINAMPL mV 1	MINATTN db/ft 0.8	SRFTEMP degF 0
MudWgt lb/gal 9.5	CASETHCK in 0	CASEOD in 5.5	PERFS 0	TDEPTH ft 5910	BOTTEMP degF 143	BITSIZE in 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					



Company	MERIT ENERGY				
Well	WB SCHERLING 29-3				
Field	BIG BOW				
County	GRANT	State	KANSAS		
HALLIBURTON		CEMENT BOND LOG			
		SCALE 1:240			