

RADIAL CEMENT EVALUATION LOG

SCALE 1:240

Company RING ENERGY COMPANY									
Well JANTZ 32									
Field N/A									
County GRAY State KANSAS									
API No.: 15-069-20479-00 Serv #: N/A									
Location: SW NE NE SE-32-27S-30W-2305FSL-335FEL									
Other Services									
RMT-1									
Company RING ENERGY COMPANY									
Well JANTZ 32									
Field N/A									
County GRAY State KANSAS									
API No.: 15-069-20479-00 Serv #: N/A									
Location: SW NE NE SE-32-27S-30W-2305FSL-335FEL									
Other Services									
RMT-1									
Permanent Datum GL Elevation N/A									
Log Measured From KB , 10 Ft. above perm. datum K.B. N/A									
Drilling Measured From KB G.L. N/A									
Date @ Time Logged 2-OCT-14 @ 16:42 Type Fluid in Hole FW									
Run No. ONE Density of Fluid 8.4									
Depth - Driller 5450 Fluid Level SURFACE									
Depth - Logger 5333 Cement Top Est. Logged 2064									
Bottom - Logged Interval 5334 Equipment / Location 1687 / LIBERAL									
Top - Log Interval 1840 Recorded by B.LUBOJASKY/R.BELL									
Max. Recorded Temp. 160 Witnessed by MITCH MCNEIL									
CEMENTING DATA									
Surface Protection Production String Liner									
Date / Time Cemented String									
Primary / Squeeze									
Expected									
Compressive Strength psi@ hrs psi@ hrs psi@ hrs									
Cement Volume									
Cement Volume / Weight /									
Formulation									
Mud Type / Mud Wgt. / /									
Borehole Record									
Casing & Tubing Record									
Run Number Bit From To Size Weight From To									
8.625 24 SURFACE 1817									
4.5 11.6 SURFACE 5450									

<<< 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

LOG CORRELATED TO GROUND LEVEL AS REQUESTED
REPEAT SECTION PERFORMED AT 5333-5100
TOOL CALIBRATED IN FREE PIPE
ESTIMATED TOP OF CEMENT FOUND AT 2064
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES!!!!
YOUR CREW TODAY: B.LUBOJASKY, R.BELL, R.GONZALES,
L.BROWN, A WRIGHT

Service Ticket No.	901691654	API No.	15-069-20479-00	PGM Ver	WARRIOR 8
The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client					
EQUIPMENT DATA					
RCBL		GR/CCL			
Run No.	ONE	Run No.	ONE	Run No.	
Serial No.	030641	Serial No.	1234	Serial No.	
Model No.	RBT_PRB275	Model No.	GR_PRB275	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	

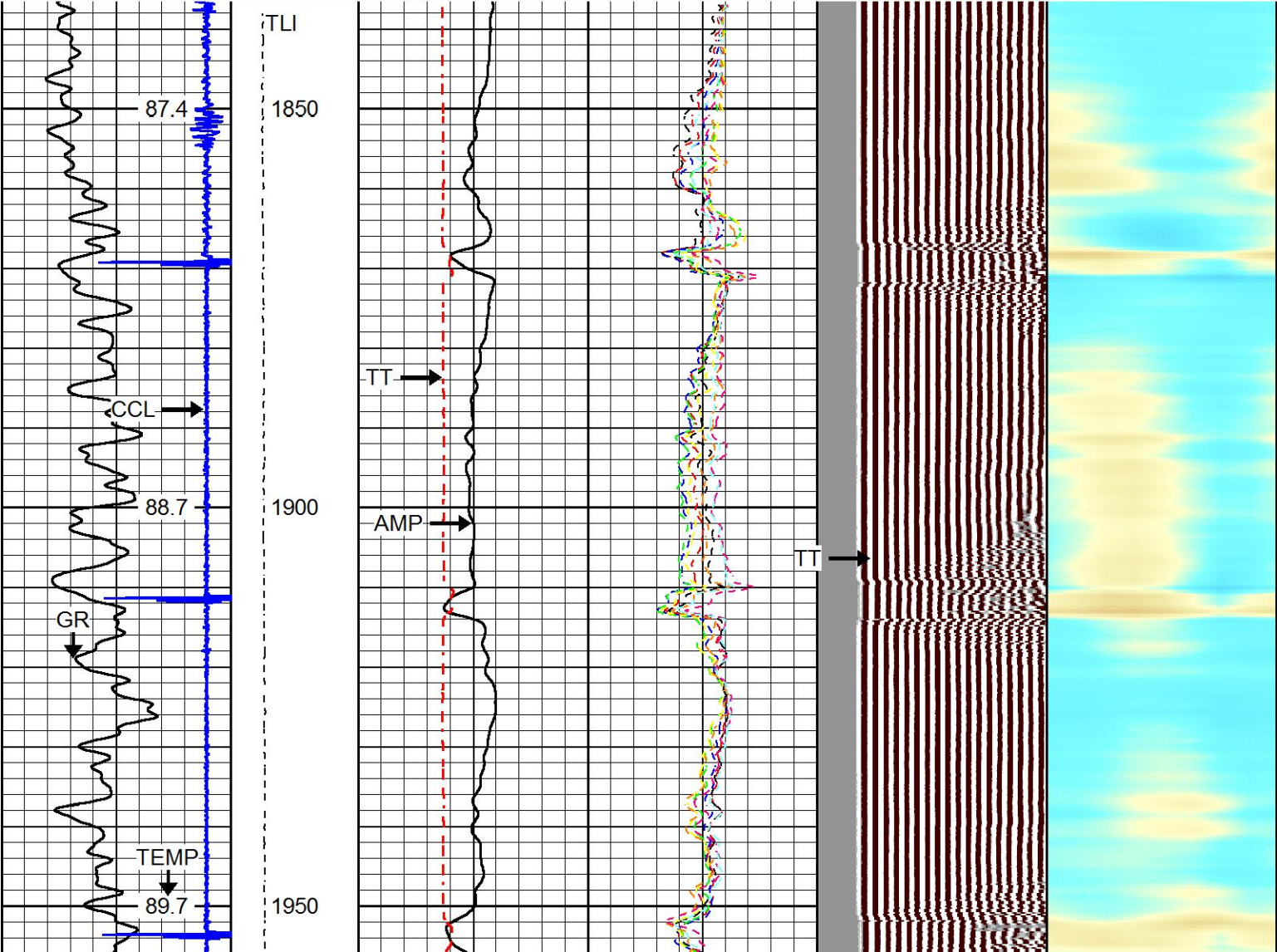
No.	12	FROM	5334	TO	1840	Pressure	0	Temperature		MAIN LOG
			GAMMA RAY		AMPLITUDE		TRAVEL TIME		MICRO-SEISMOGRAM	
Pass	Scale		Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	R	L	L
ALL PASSES	0	150	0	100	200	344	200		200	1200
DIRECTIONAL INFORMATION										
Maximum Deviation		N/A	deg. @	N/A	KOP	N/A				

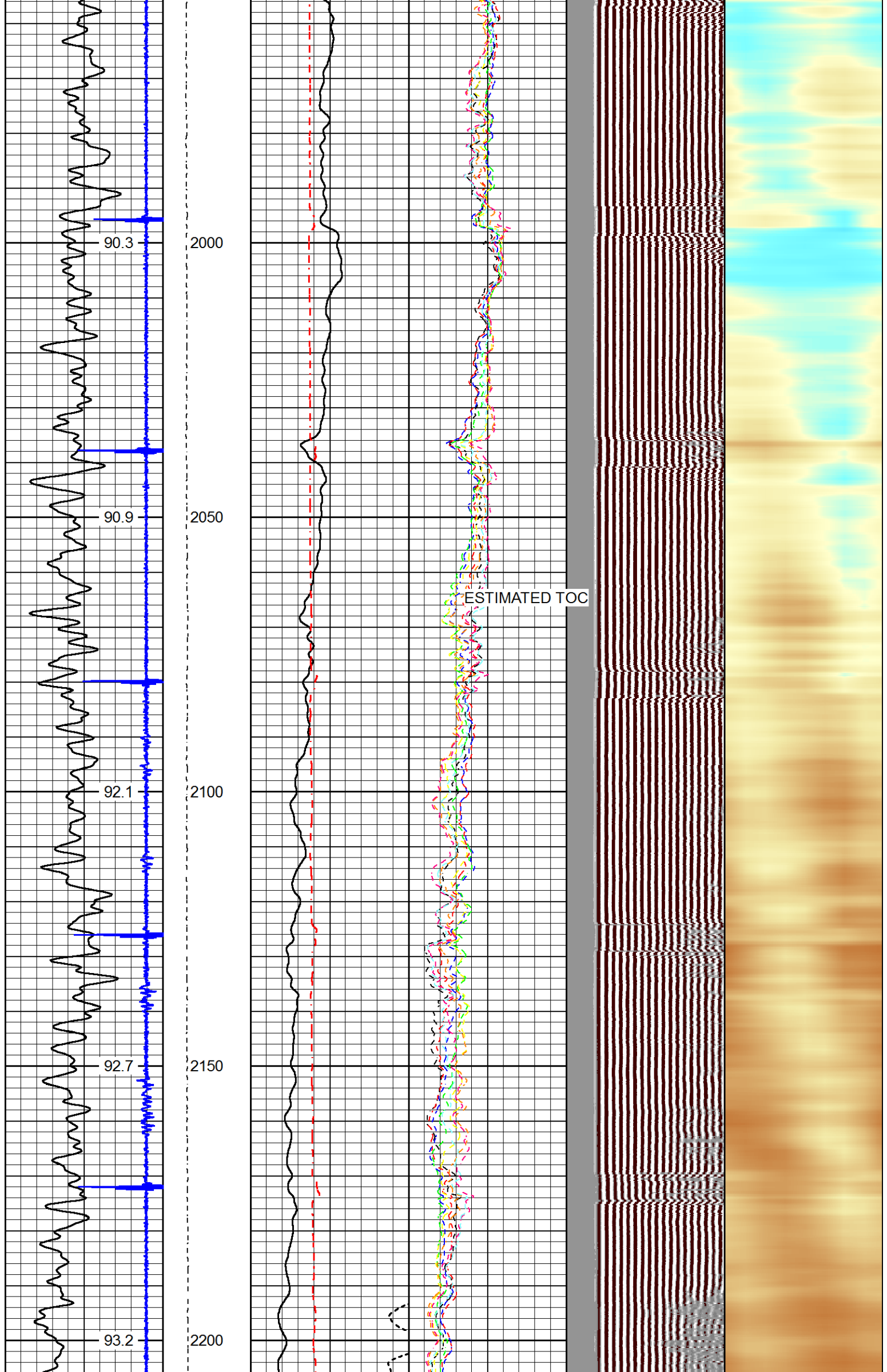
MAIN PASS

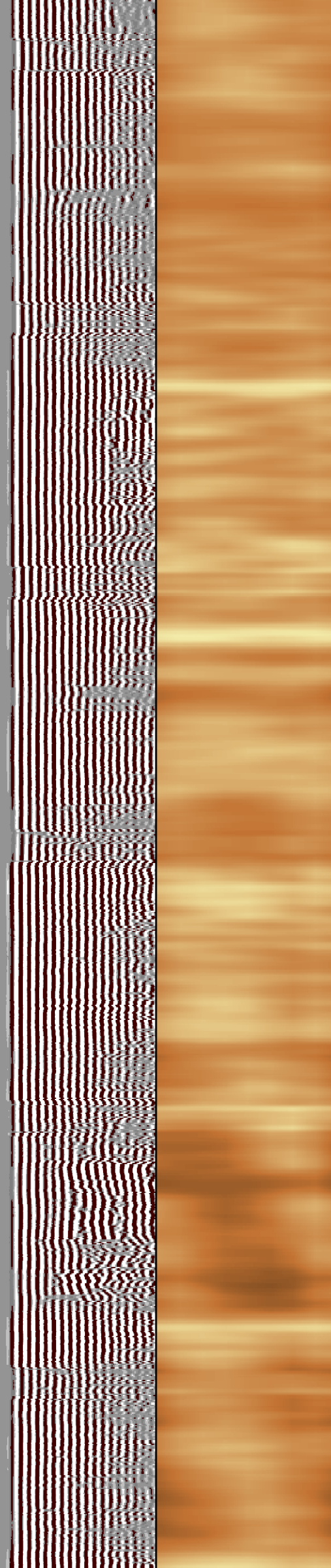
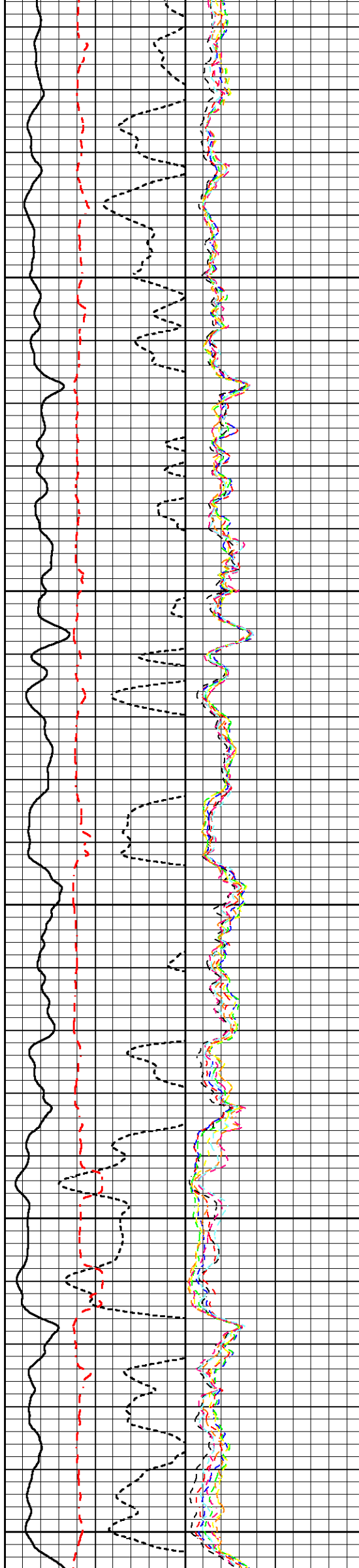
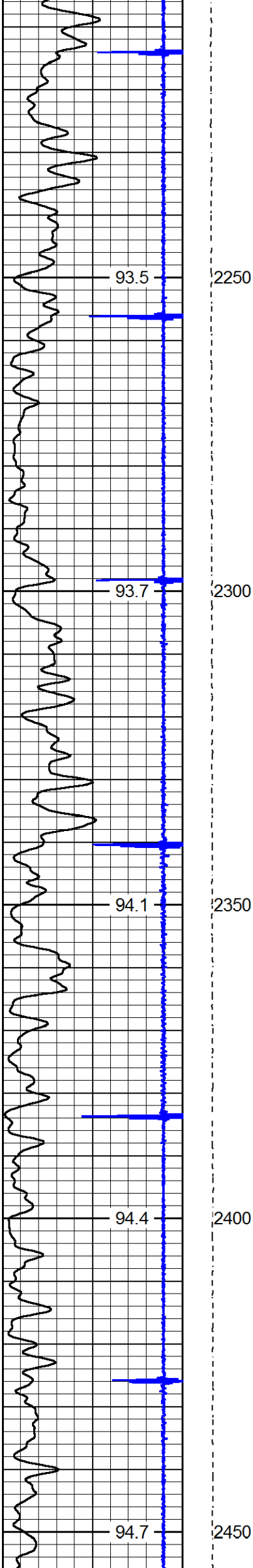
SCALE 1:240

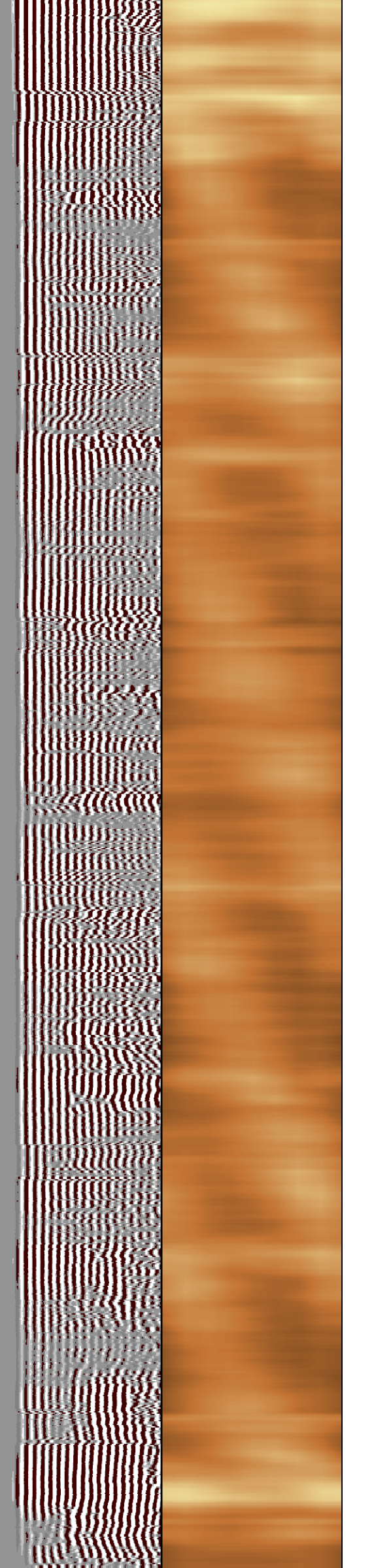
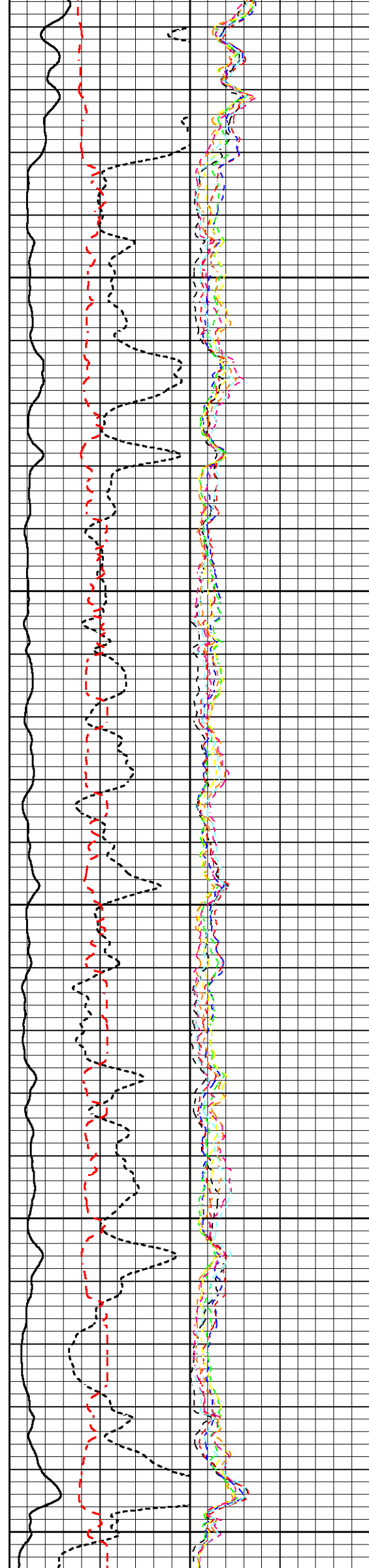
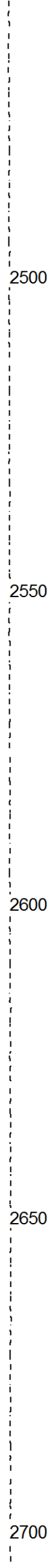
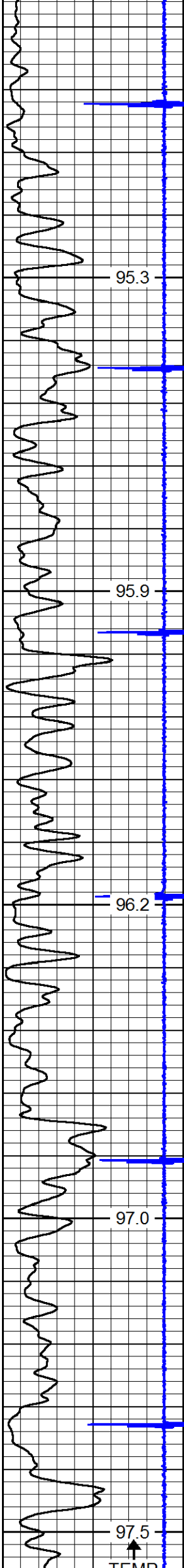
Database File e:\rcbl_ringenergy_jants32.db
Dataset Pathname pass14
Presentation Format rcbltemp
Dataset Creation Thu Oct 02 03:42:08 2014
Charted by Depth in Feet scaled 1:240

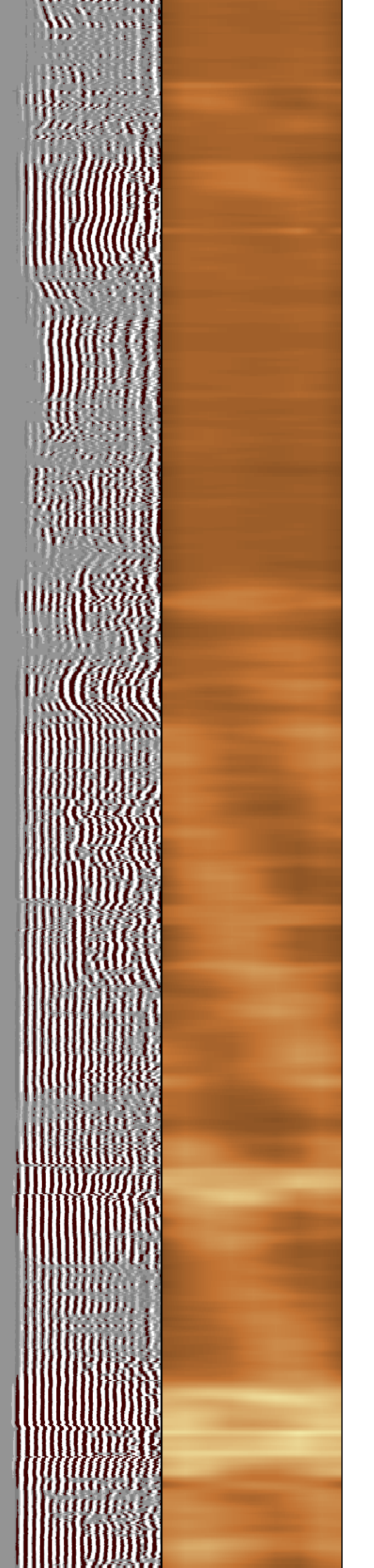
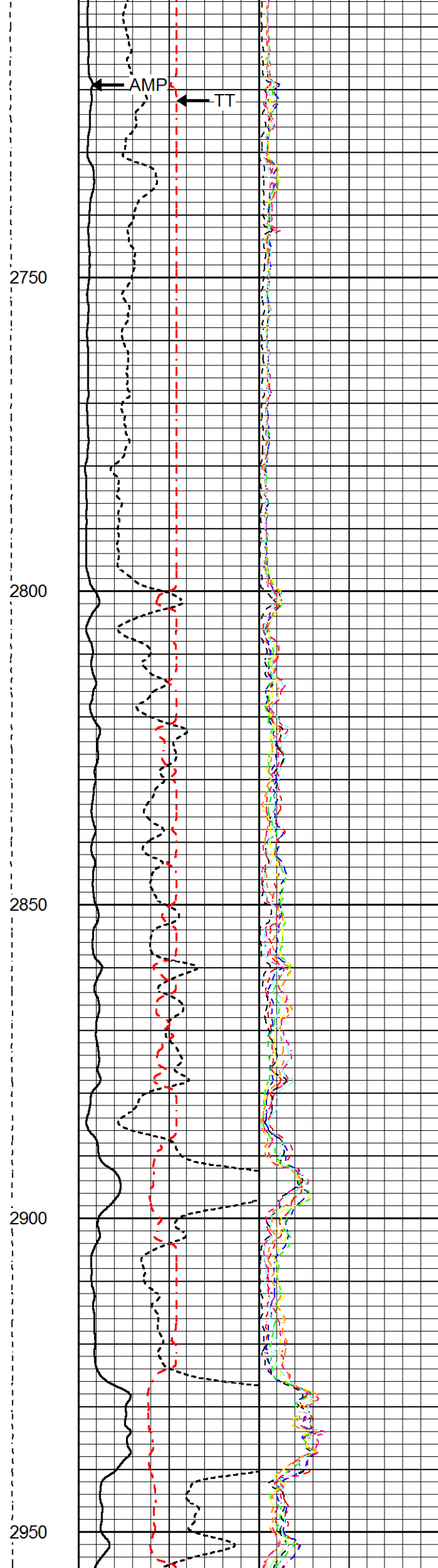
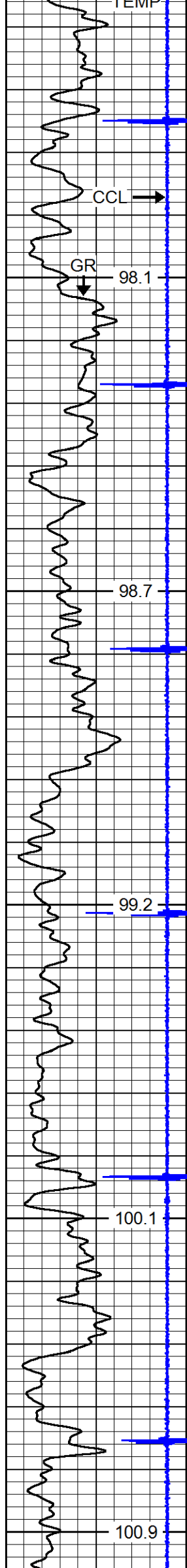
GAMMA RAY			LTEN	0	AMP (mV)	100	0	AMPS1	120	200	MSG	1200	1	SECTORS	8
0	(GAPI)	150	0	(lb2000)	0	AAMP (mV)	20	0	AMPS2	120			0		100
2.25		CCL	-0.25		200	TT (usec)	344	0	AMPS3	120					
TEMP (degF)					0	AMPS4	120								
				0	AMPS5	120									
				0	AMPS6	120									
				0	AMPS7	120									
				0	AMPS8	120									

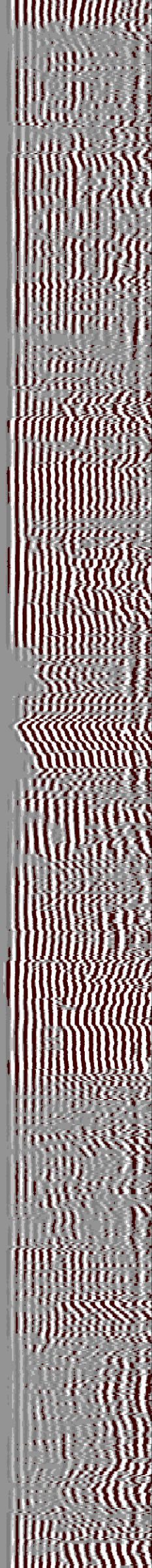
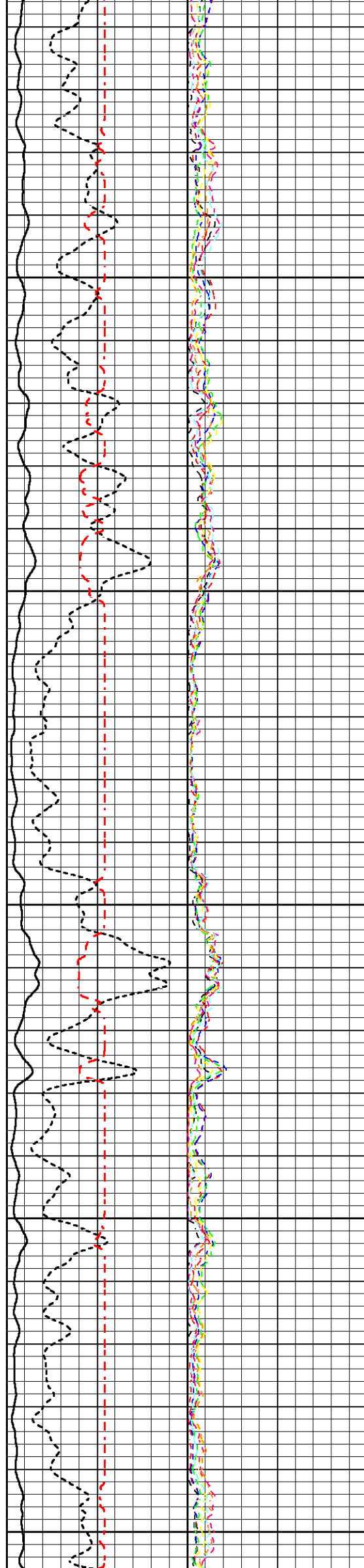
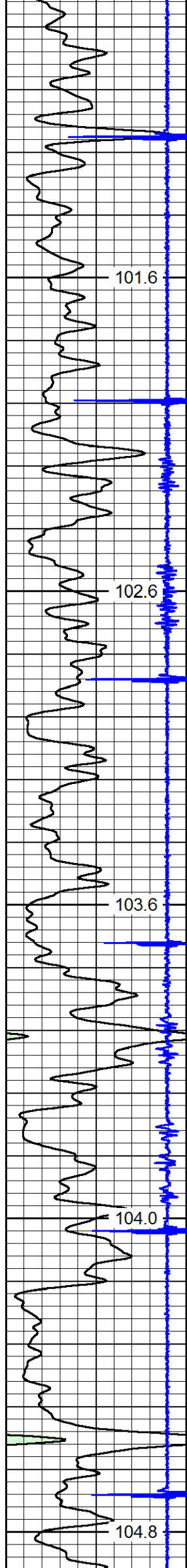


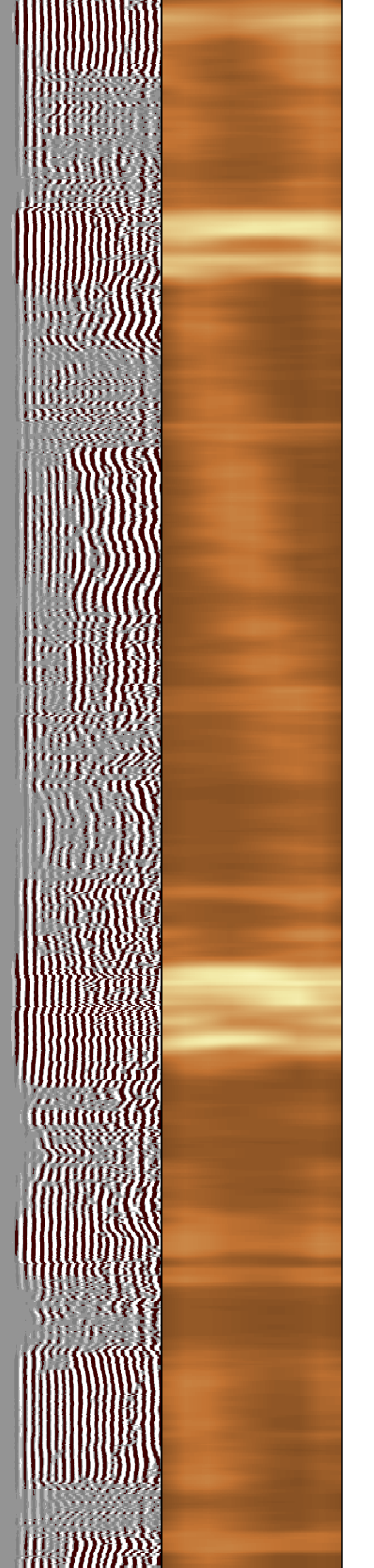
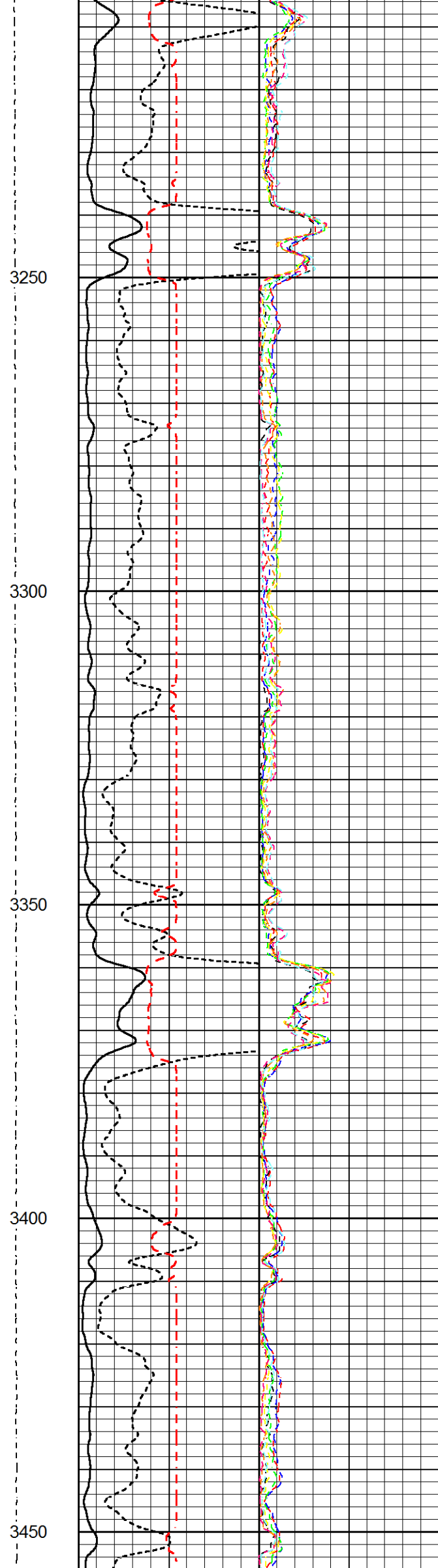
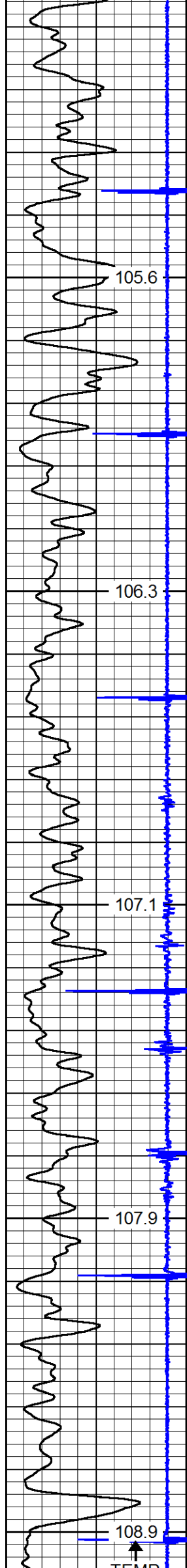


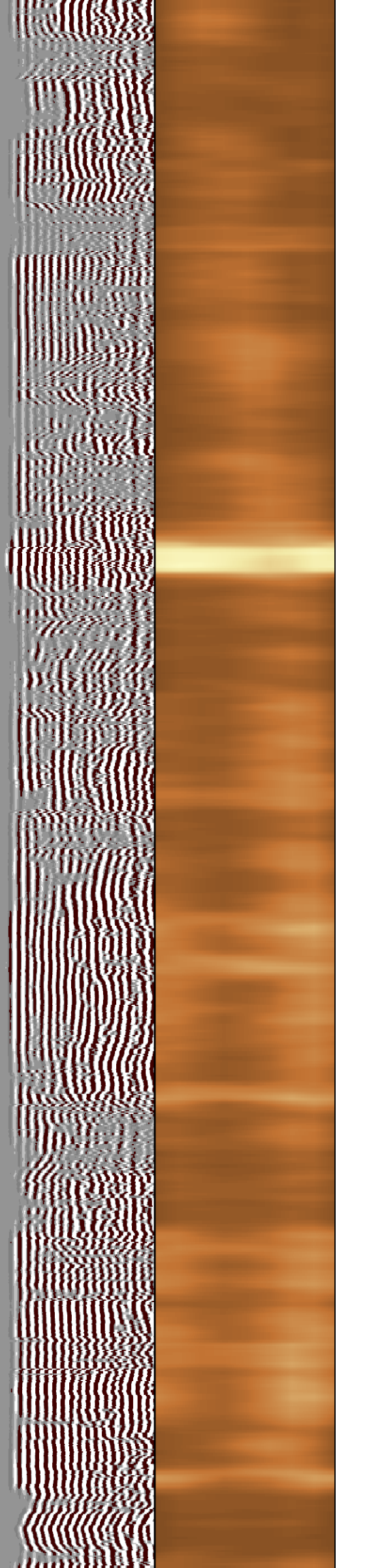
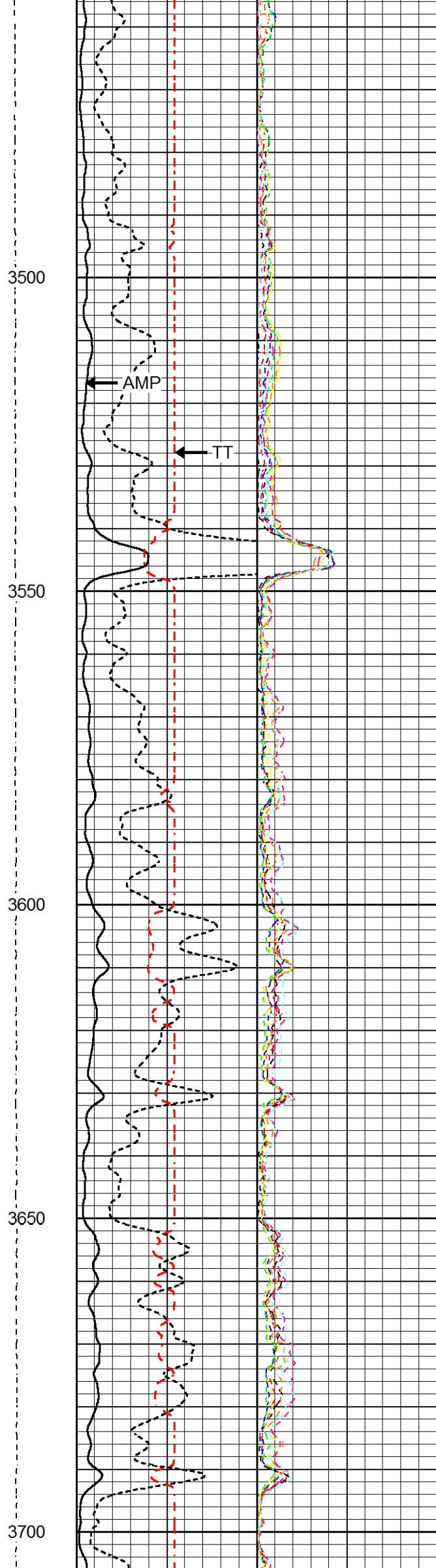
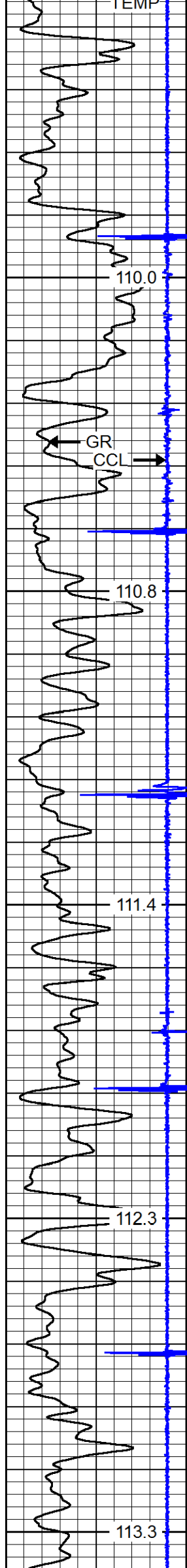


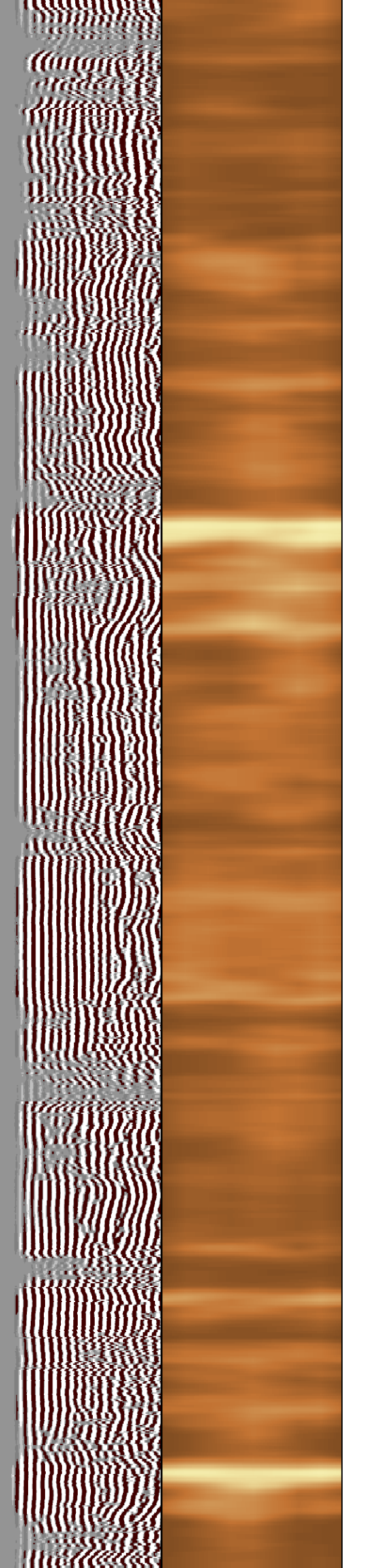
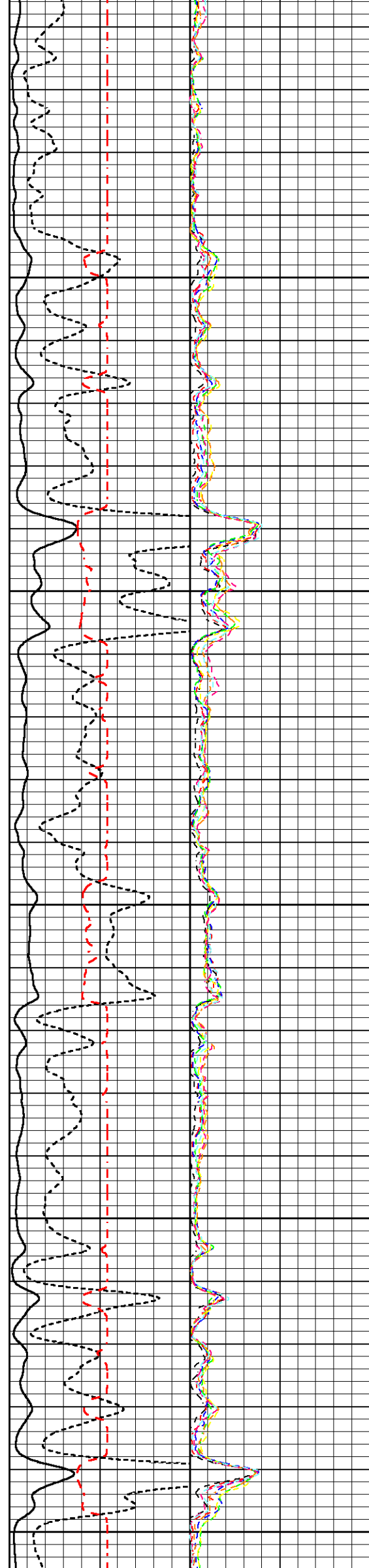
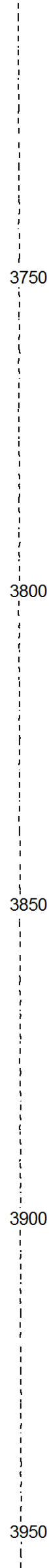
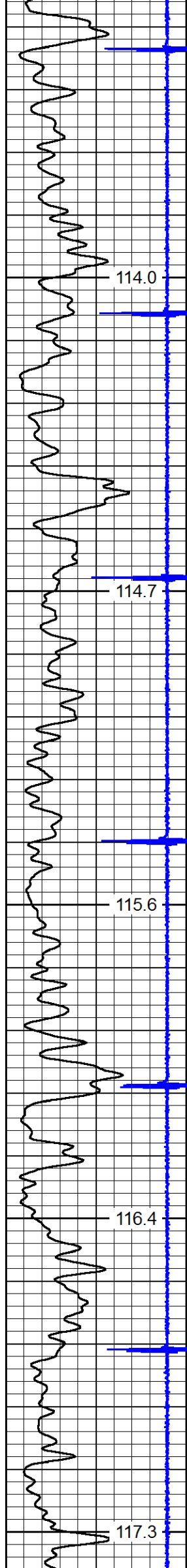


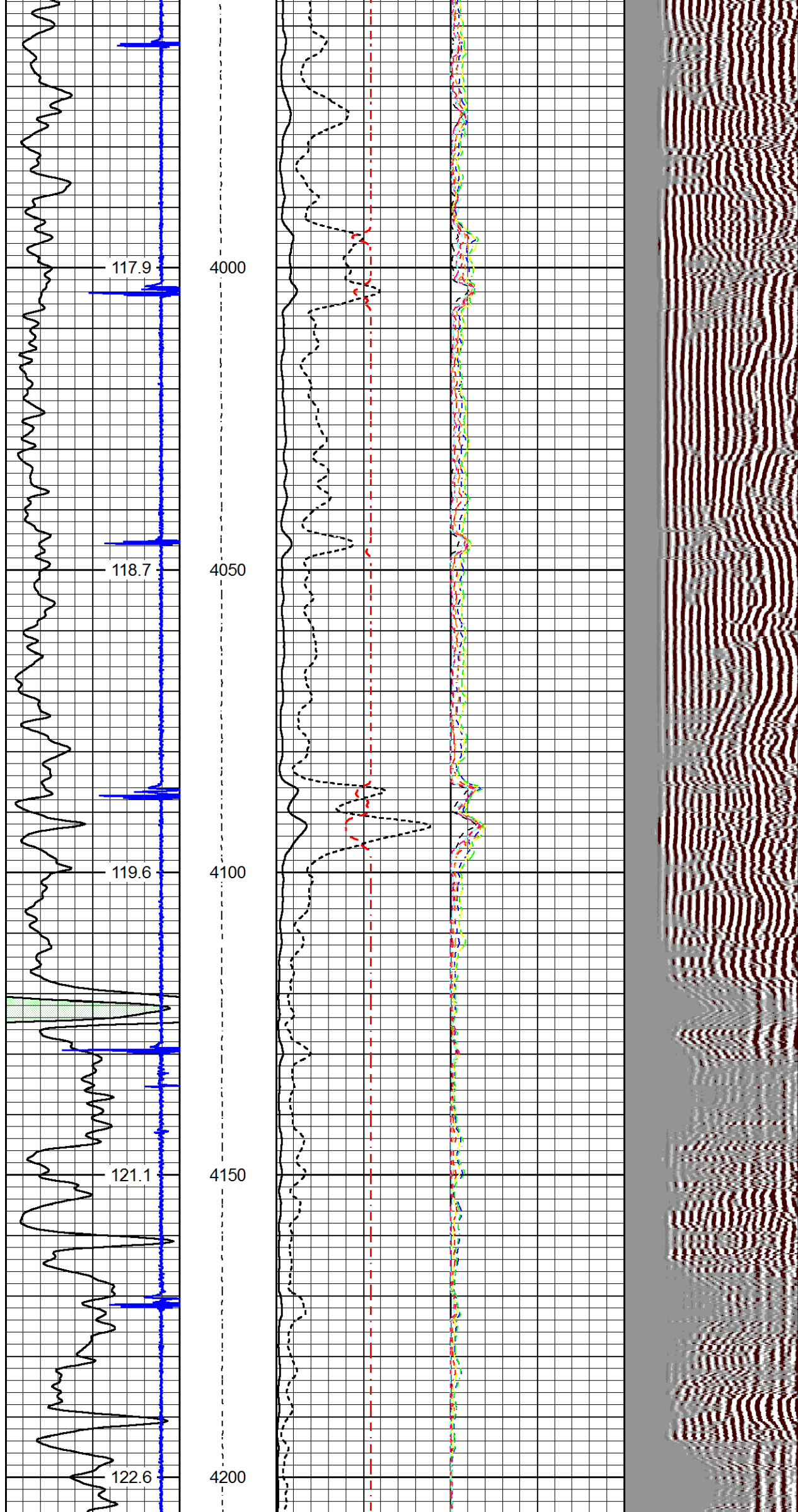


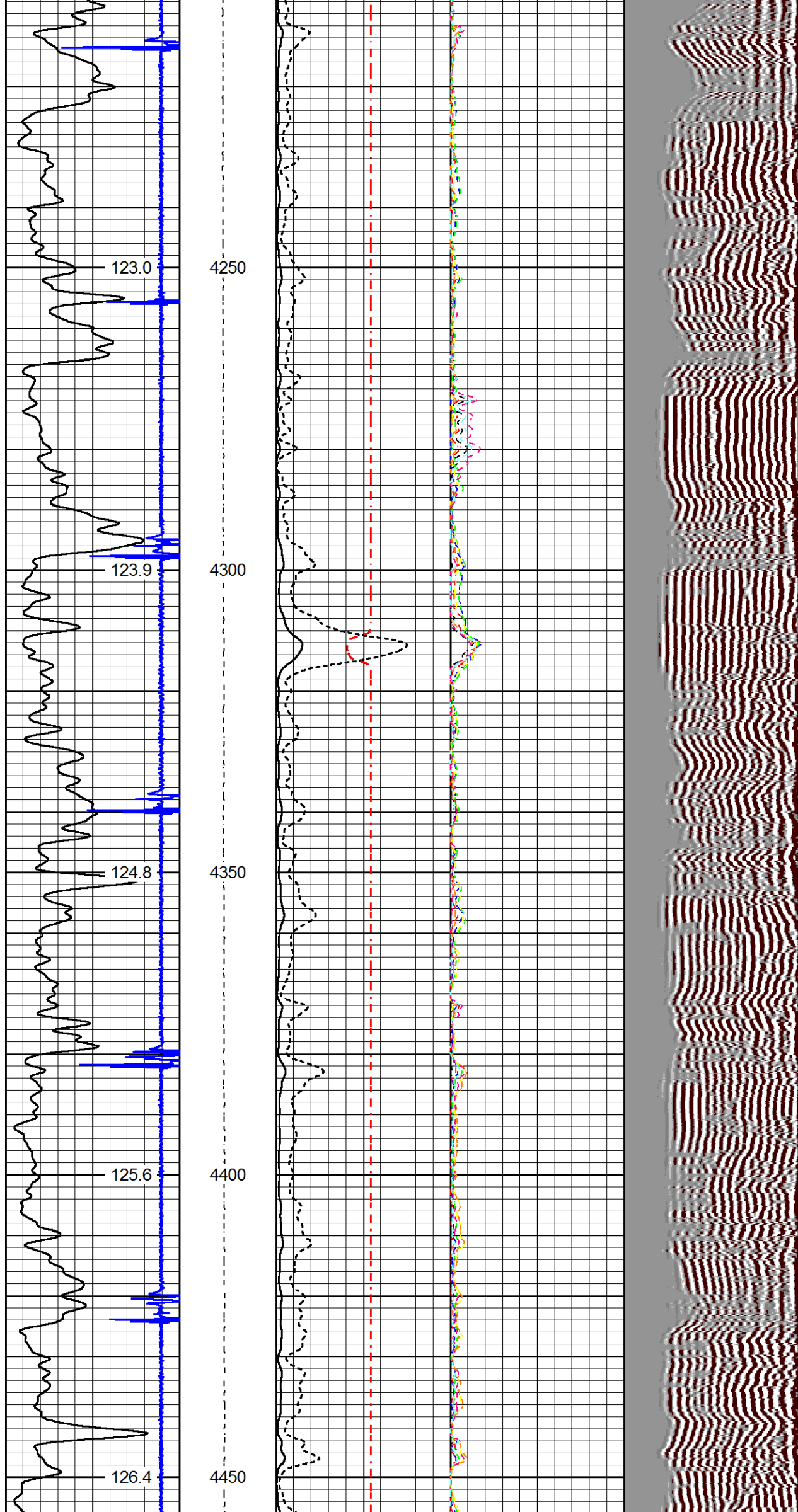


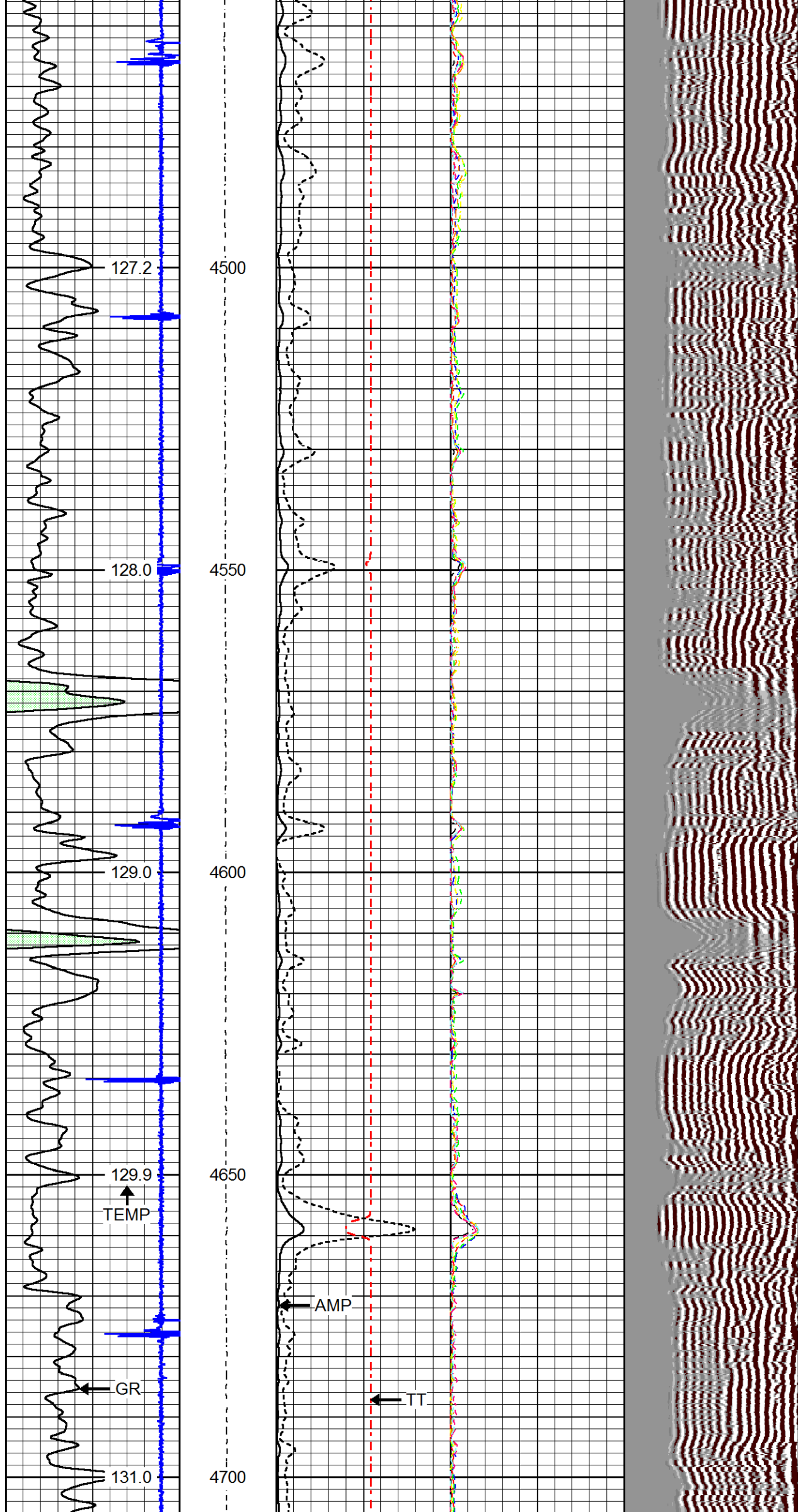


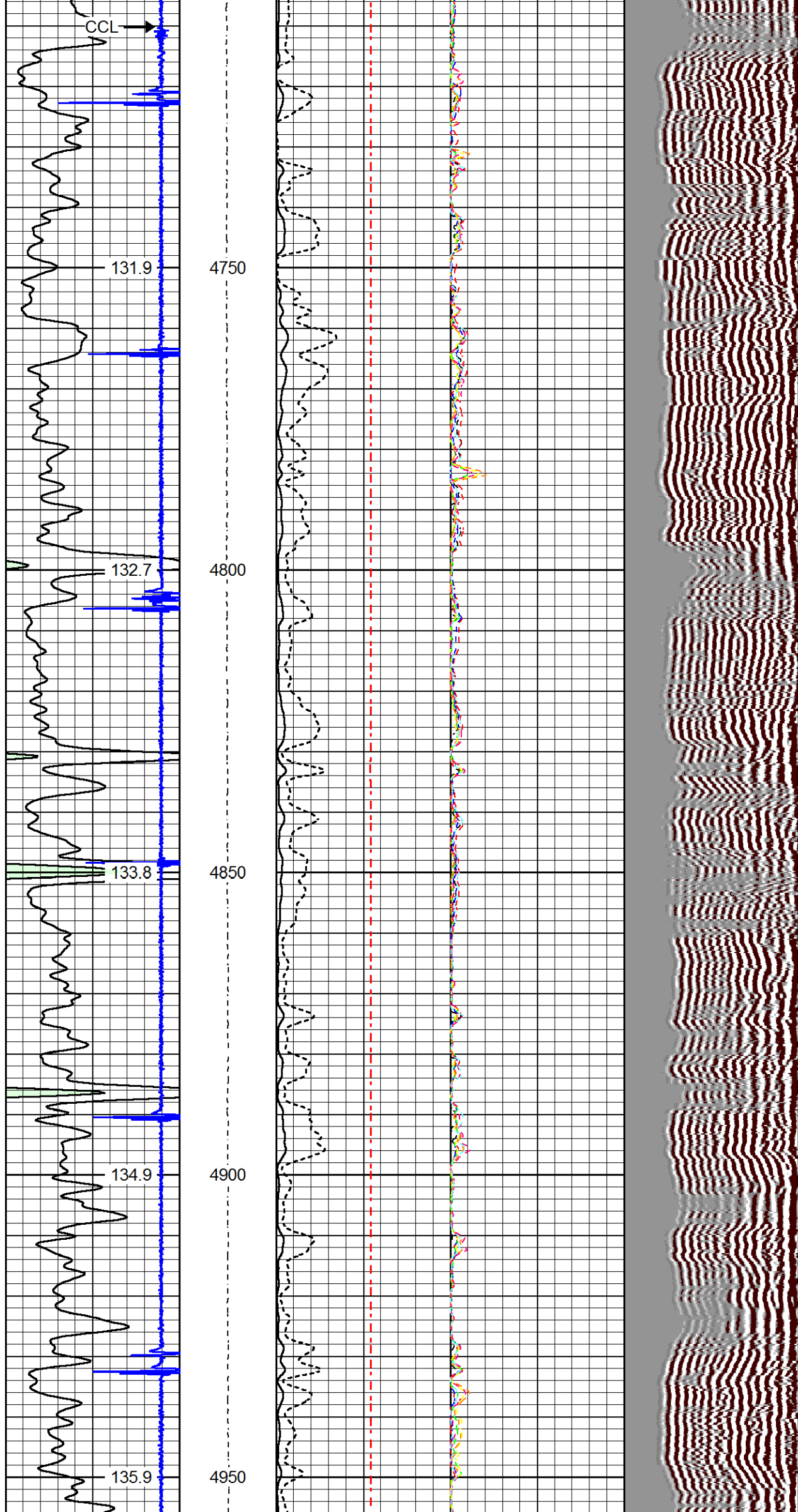


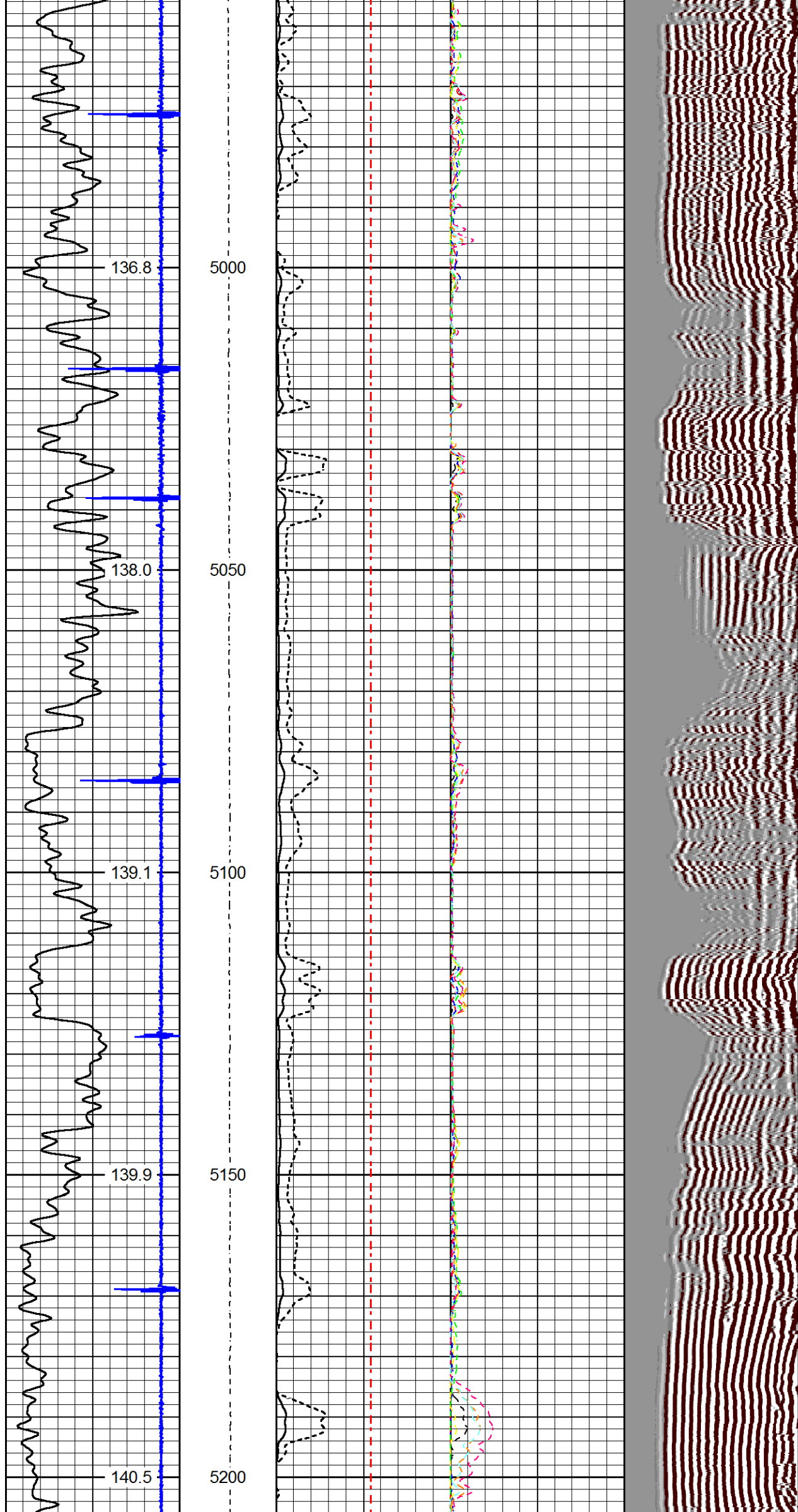


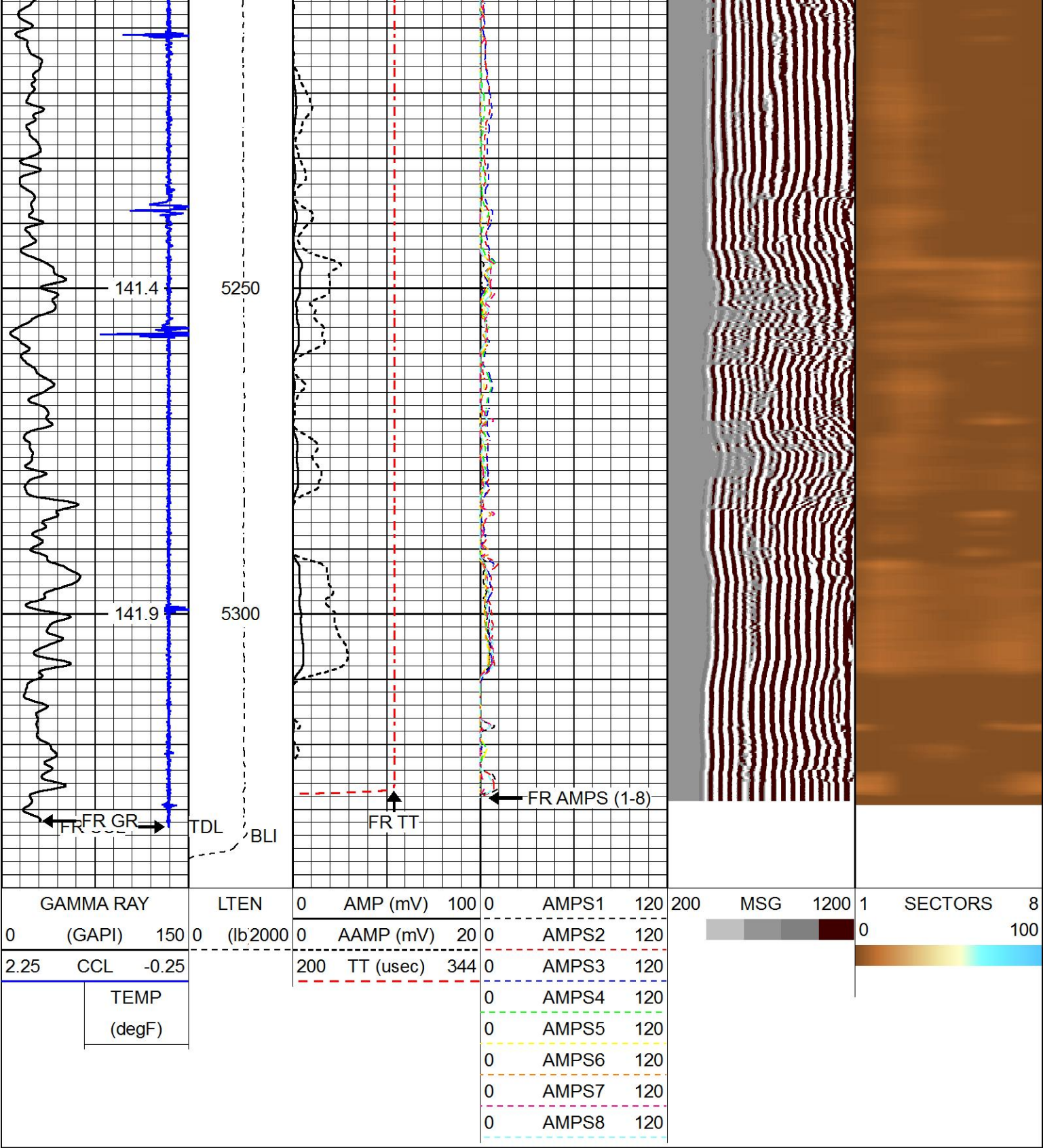












HALLIBURTON

MAIN PASS

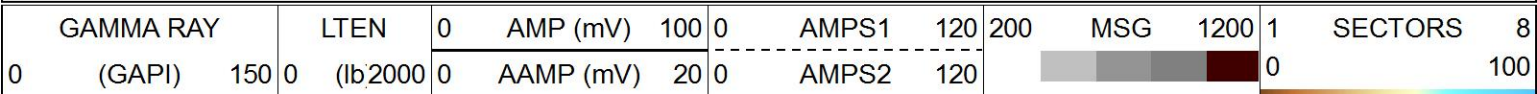
SCALE 1:240

HALLIBURTON

REPEAT SECTION

SCALE 1:240

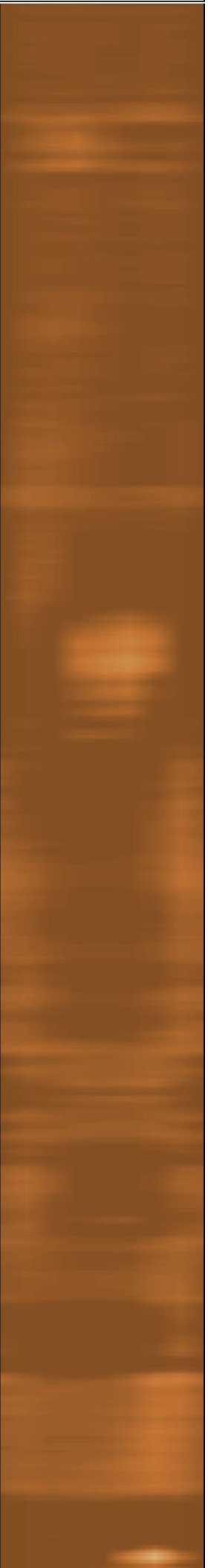
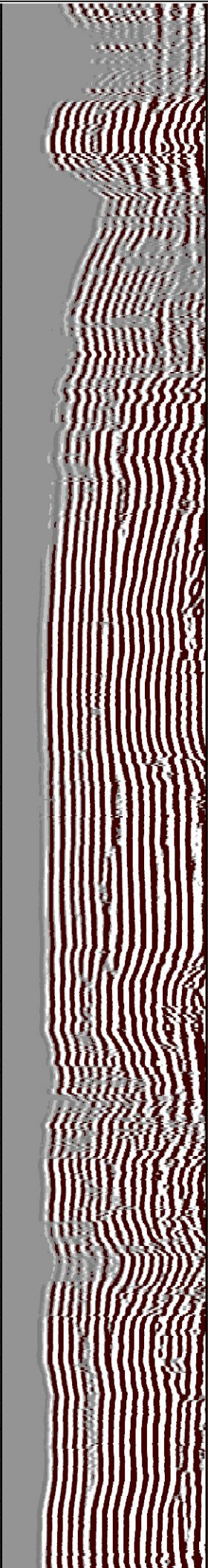
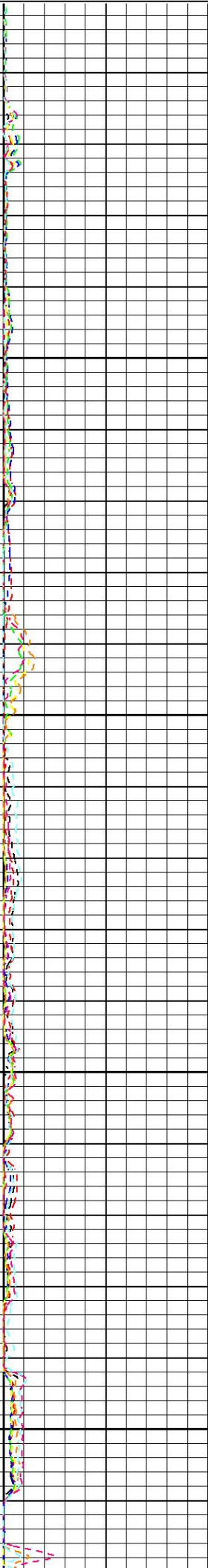
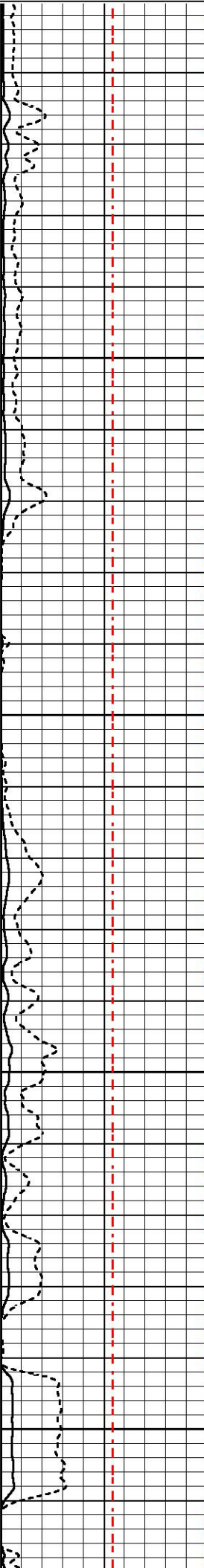
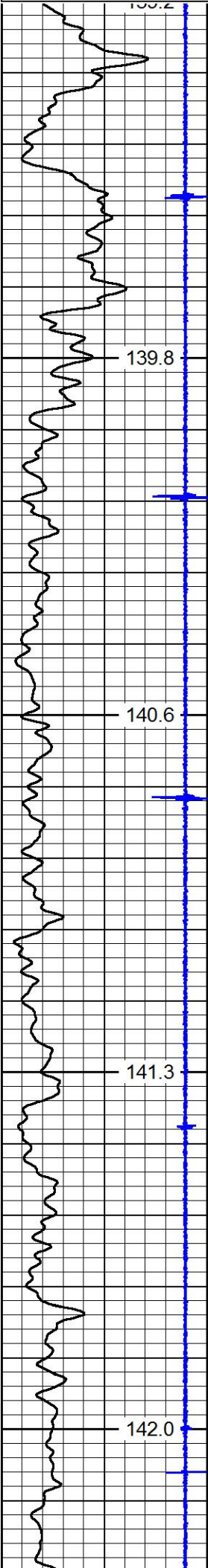
Database File	e:\rcbl_ringenergy_jants32.db
Dataset Pathname	pass12
Presentation Format	rcbltemp
Dataset Creation	Thu Oct 02 03:27:58 2014
Charted by	Depth in Feet scaled 1:240

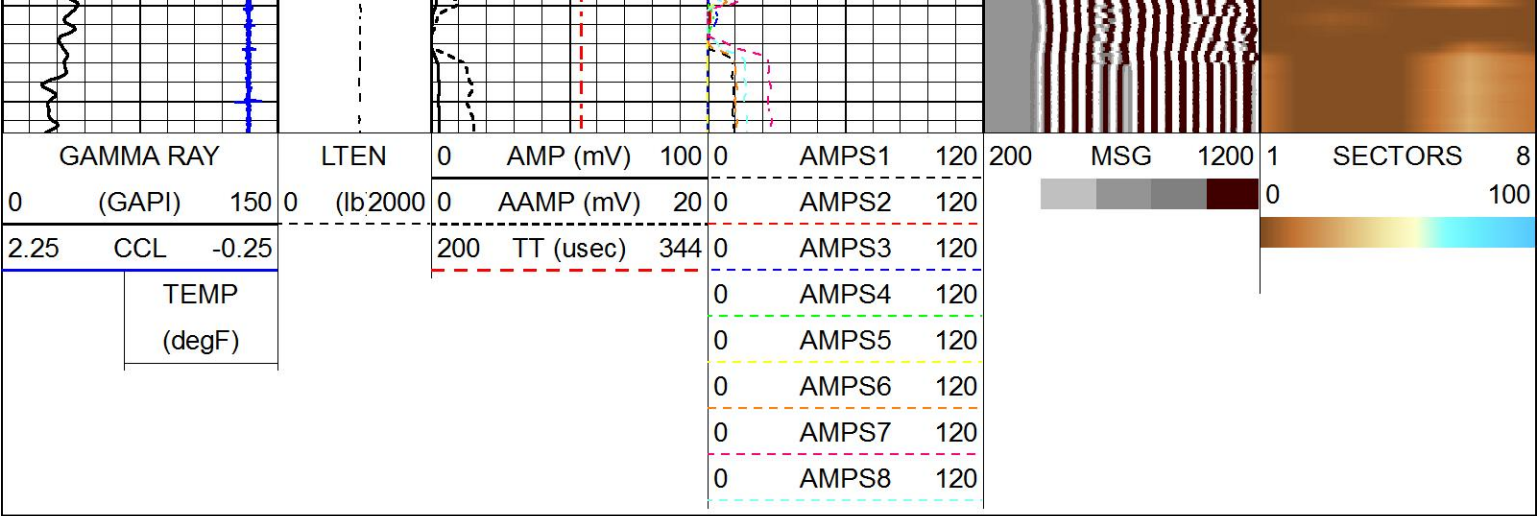


2.25	CCL	-0.25
TEMP		
(degF)		

200	TT (usec)	344
-----	-----------	-----

0	AMPS3	120
0	AMPS4	120
0	AMPS5	120
0	AMPS6	120
0	AMPS7	120
0	AMPS8	120





REPEAT SECTION

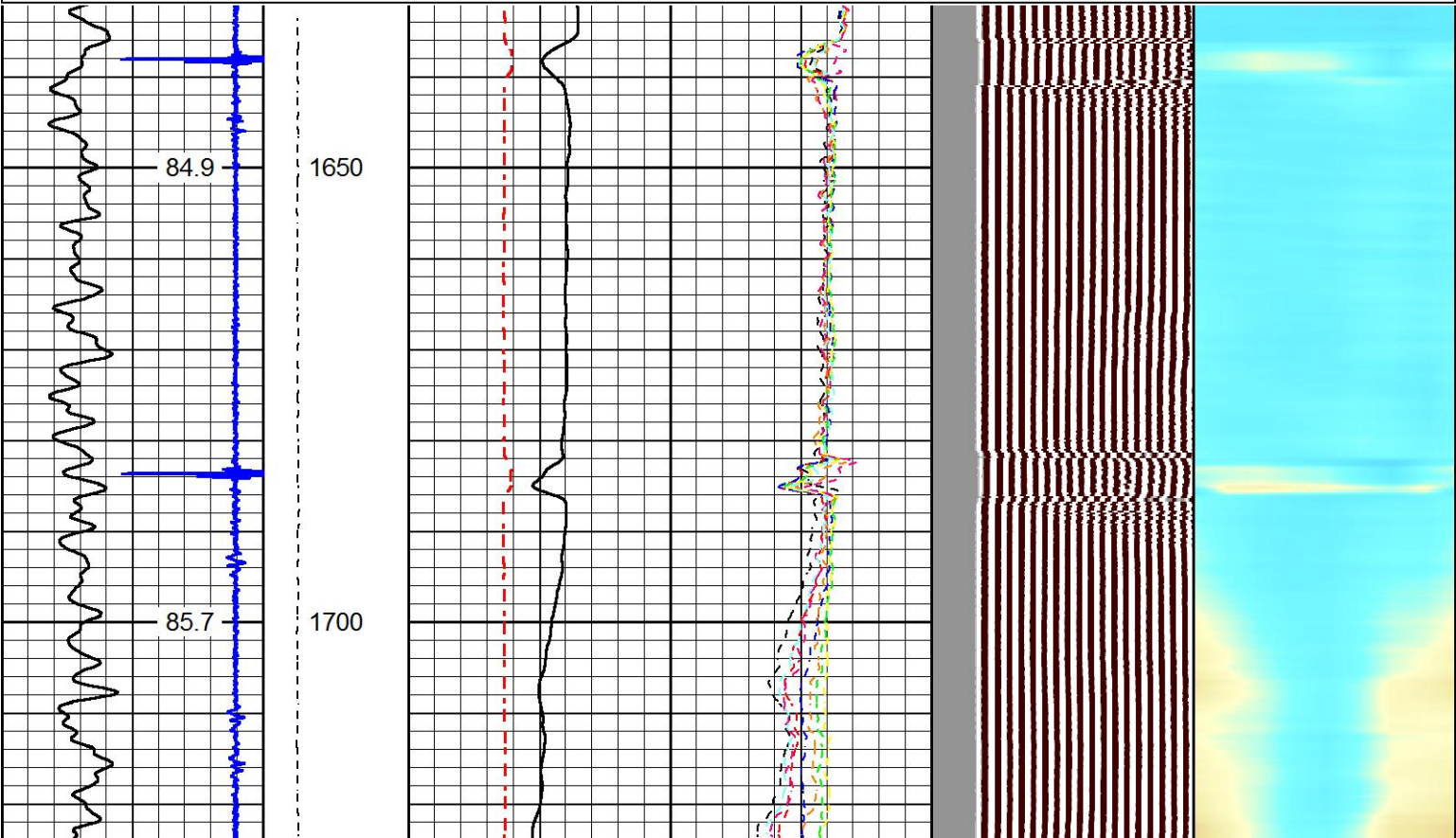
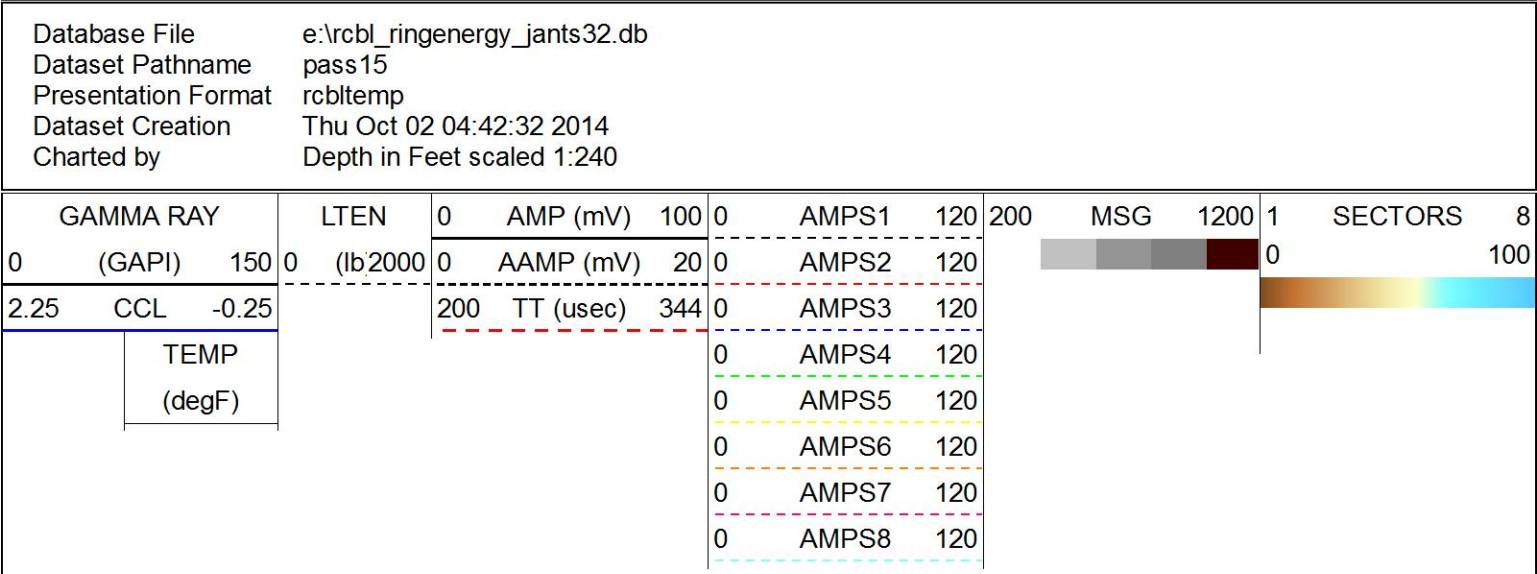
HALLIBURTON

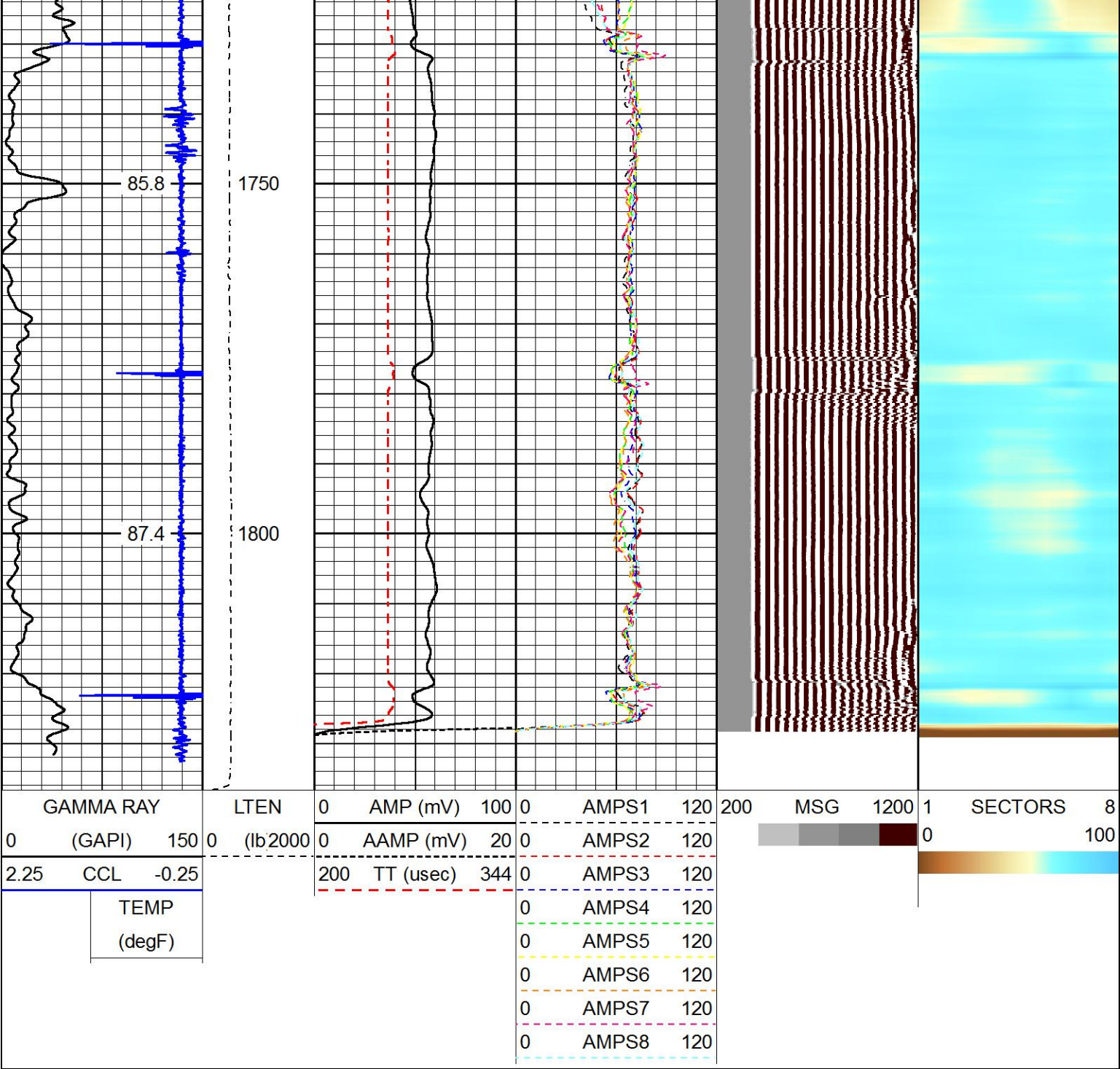
SCALE 1:240

FREE PIPE PASS

HALLIBURTON

SCALE 1:240





FREE PIPE PASS

HALLIBURTON

SCALE 1:240

Filter Report

Database File e:\rcbl_ringenergy_jants32.db
Dataset Pathname pass16
Dataset Creation Thu Oct 02 04:47:20 2014

Filter Name	Filter Type	Filter Length
		(ft)
AMP3FT	Gaussian	5.00
TT3FT	Gaussian	3.00
AMPCAL	Gaussian	3.00
TTCAL	Gaussian	3.00
AMP5FT	Gaussian	5.00
TT5FT	Gaussian	3.00
AMPS1	Gaussian	3.00
TTS1	Gaussian	3.00
AMPS2	Gaussian	3.00
TTS2	Gaussian	3.00
AMPS3	Gaussian	3.00
TTS3	Gaussian	3.00
AMPS4	Gaussian	3.00
TTS4	Gaussian	3.00
AMPS5	Gaussian	3.00

TTS5	Gaussian	3.00
AMPS6	Gaussian	3.00
TTS6	Gaussian	3.00
AMPS7	Gaussian	3.00
TTS7	Gaussian	3.00
AMPS8	Gaussian	3.00
TTS8	Gaussian	3.00
CCL	None	
GR	Gaussian	4.00
TEMP	Triangle	3.00
LSPD	None	
LTEN	Gaussian	3.00
LSPDRT	None	

Sensor Report

Database File	e:\rcbl_ringenergy_jants32.db
Dataset Pathname	pass16
Dataset Creation	Thu Oct 02 04:47:20 2014

Sensor Name	Offset
	(ft)
TEMP	11.24
WFS8	9.03
WFS7	9.03
WFS6	9.03
WFS5	9.03
WFS4	9.03
WFS3	9.03
WFS2	9.03
WFS1	9.03
WFCAL	9.03
WF3FT	9.03
WF5FT	8.03
CCL	3.92
GR	2.54
LLMTEN	0
Telemetry	0

Log Variables

Database:\rcbl_ringenergy_jants32.db

Dataset field/well/run1/pass16

Top - Bottom

BHTEMP_Src	PPT usec	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	SRFTEMP degF	MudWgt lb/gal
1	0	11.6	82	0	0.8	75	8.4
CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BITSIZE in		
0.275	4.5	0	5000	212	7.875		

Calibration Report						
Database File	e:\rcbl_ringenergy_jants32.db					
Dataset Pathname	pass16					
Dataset Creation	Thu Oct 02 04:47:20 2014					
Gamma Ray Calibration Report						
Type / Serial:			Probe275dig / 060633			
SHOP CALIBRATION		Thu Feb 03 09:31:41 2011				
	Counts/Sec.	Gain	Offset	Jig	Units	
Background	34.7				cps	
Calibrator	230.8				cps	
		1.1935			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:	080454		
Tool Model:	Probe		
Calibration Casing Diameter:	4.500	in	
Calibration Depth:	350.008	ft	

Master Calibration, performed Thu Oct 02 04:01:03 2014:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.009	0.517	0.000	81.196	159.541	-1.363
CAL	0.007	0.619				
5'	0.008	0.779	0.000	81.196	105.310	-0.820
SUM						
S1	0.053	0.498	0.000	100.000	224.685	-11.956
S2	0.010	0.494	0.000	100.000	206.582	-1.972
S3	0.009	0.548	0.000	100.000	185.545	-1.588
S4	0.009	0.427	0.000	100.000	239.525	-2.164
S5	0.008	0.555	0.000	100.000	182.845	-1.538
S6	0.009	0.485	0.000	100.000	210.089	-1.890
S7	0.008	0.429	0.000	100.000	237.794	-1.988
S8	0.009	0.496	0.000	100.000	205.329	-1.762

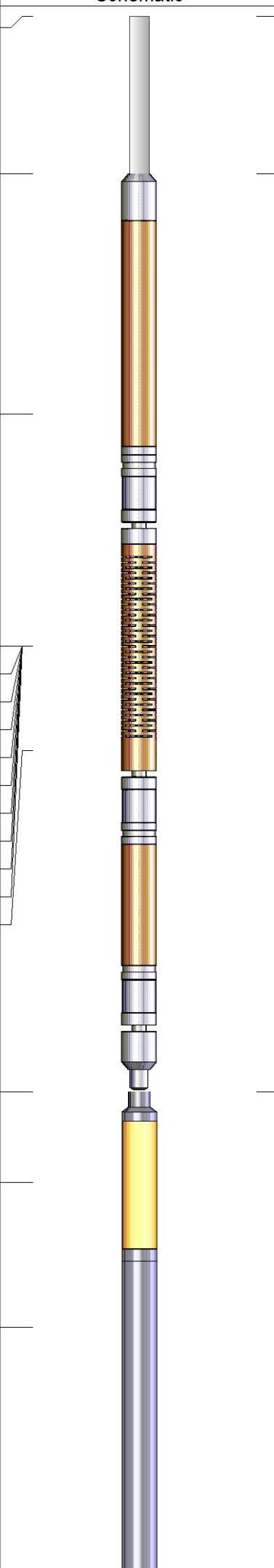
Internal Reference Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.007	0.619	1.000	0.000

Air Zero Calibration, performed Thu Oct 02 03:30:20 2014:						
	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:	080454		
Tool Model:	Probe		
Performed:	Fri Jan 24 13:23:43 2014		
	Reference	Reading	
Low Reference:	0.00 degF	0.00 degF	

High Reference:		1.00	degF	1.00	degF
Gain:		1.05			
Offset:		-16.00			
Delta Spacing		1			

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					
WVFS8	9.03		RBT_PRB275-Probe (080454) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
WVFS7	9.03					
WVFS6	9.03					
WVFS5	9.03					
WVFS4	9.03					
WVFS3	9.03					
WVFS2	9.03					
WVFS1	9.03					
WVFCAL	9.03					
WVF3FT	9.03					
WVF5FT	8.03					
GR_PRB275	4.78					
CCL	3.92					
GR	2.54		GR_PRB275-probe275dig (060633) Probe Digital Gamma CCL	4.78	2.75	57.00

LLMTEN	0.00					
Dataset: rcbl_ringenergy_jants32.db: field/well/run1/pass16 Total length: 15.03 ft Total weight: 148.00 lb O.D.: 2.75 in						

Company	RING ENERGY COMPANY				
Well	JANTZ 32				
Field	N/A				
County	GRAY			State	KANSAS
	RADIAL CEMENT EVALUATION LOG SCALE 1:240				