

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

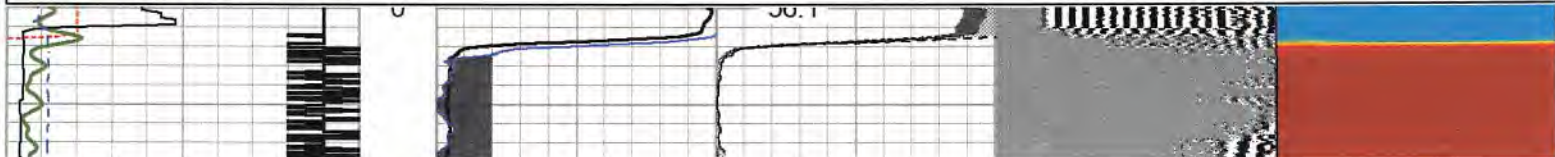
LOG CORRELATED TO MARKER JOINT
 DEPTH SHIFT +5
 MARKER JOINT 5742-5752
 ALL PASSES MADE WITH 1500 PSI
 THANK YOU FOR USING NINE ENERGY SERVICES

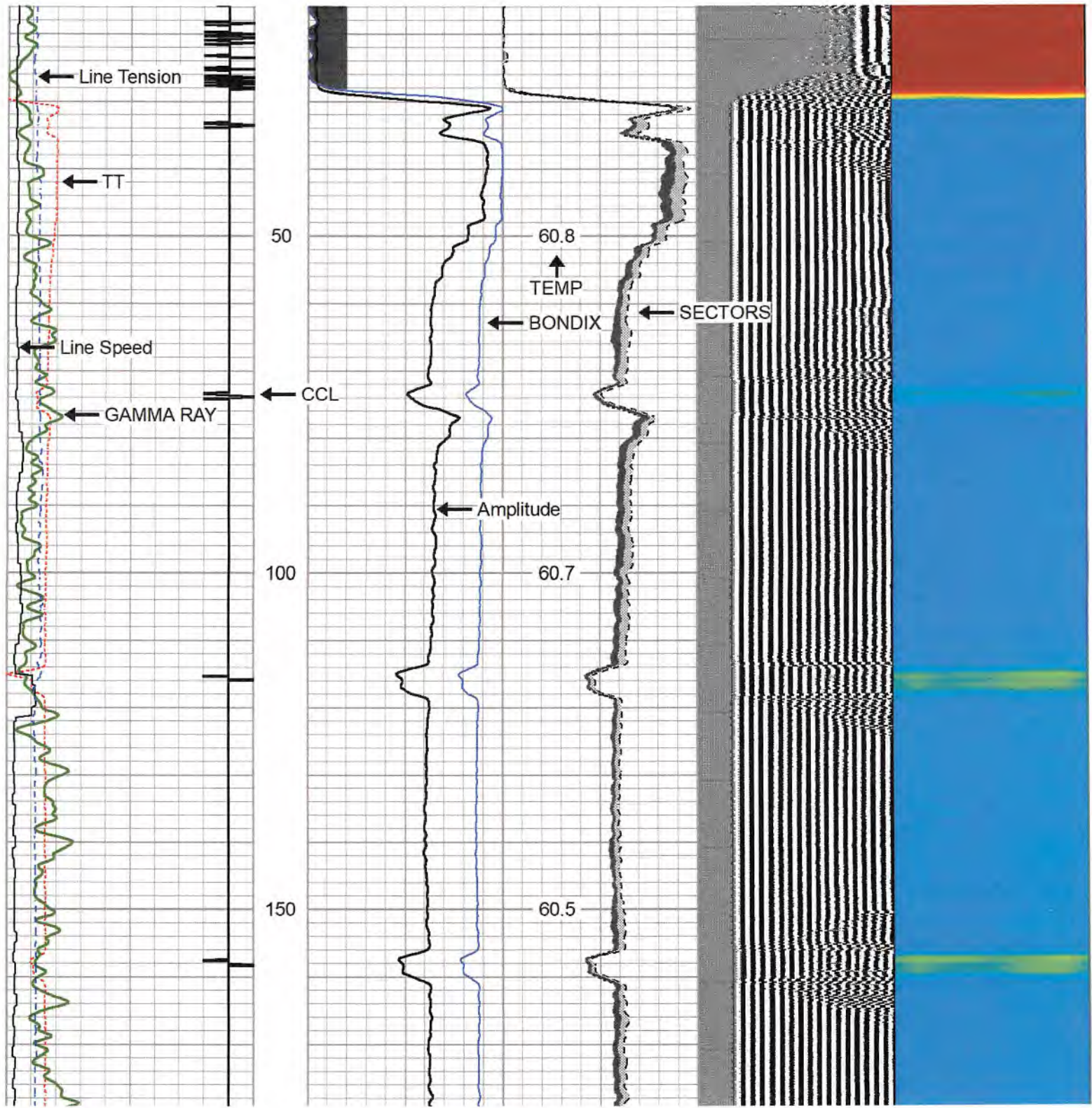


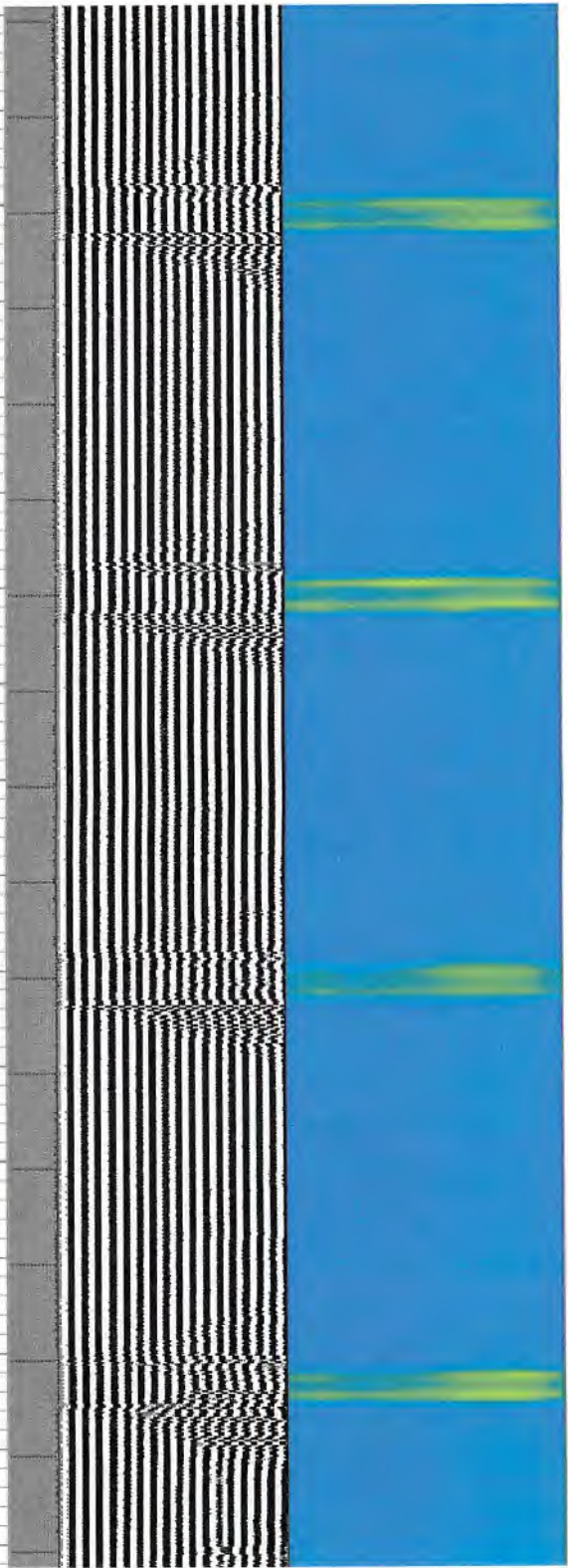
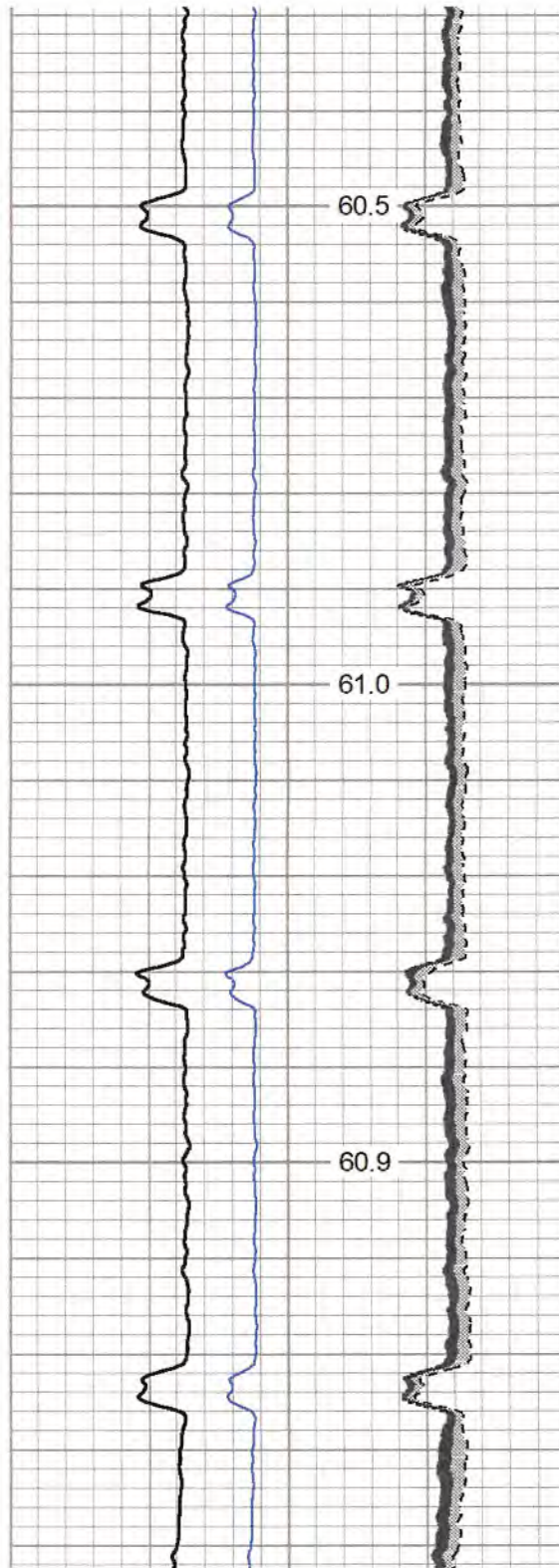
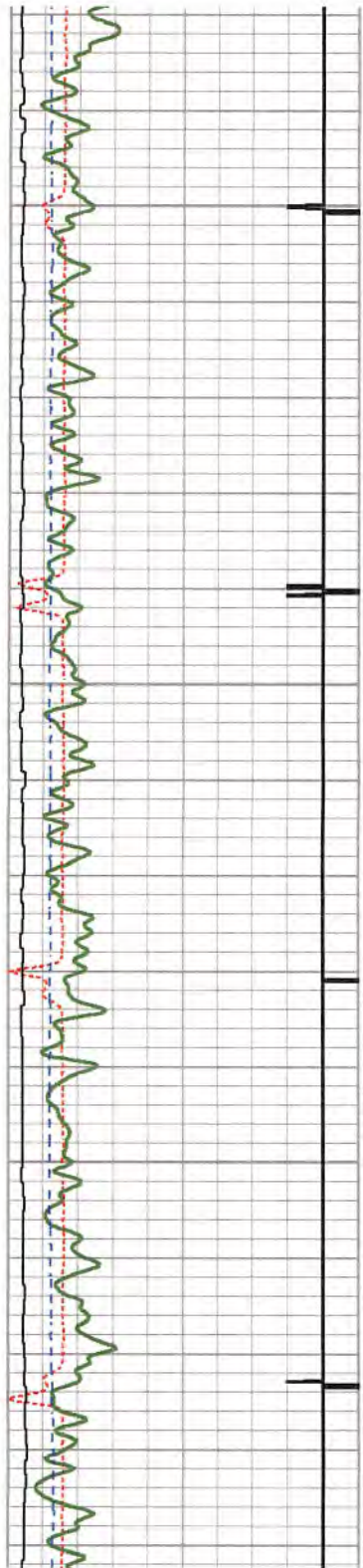
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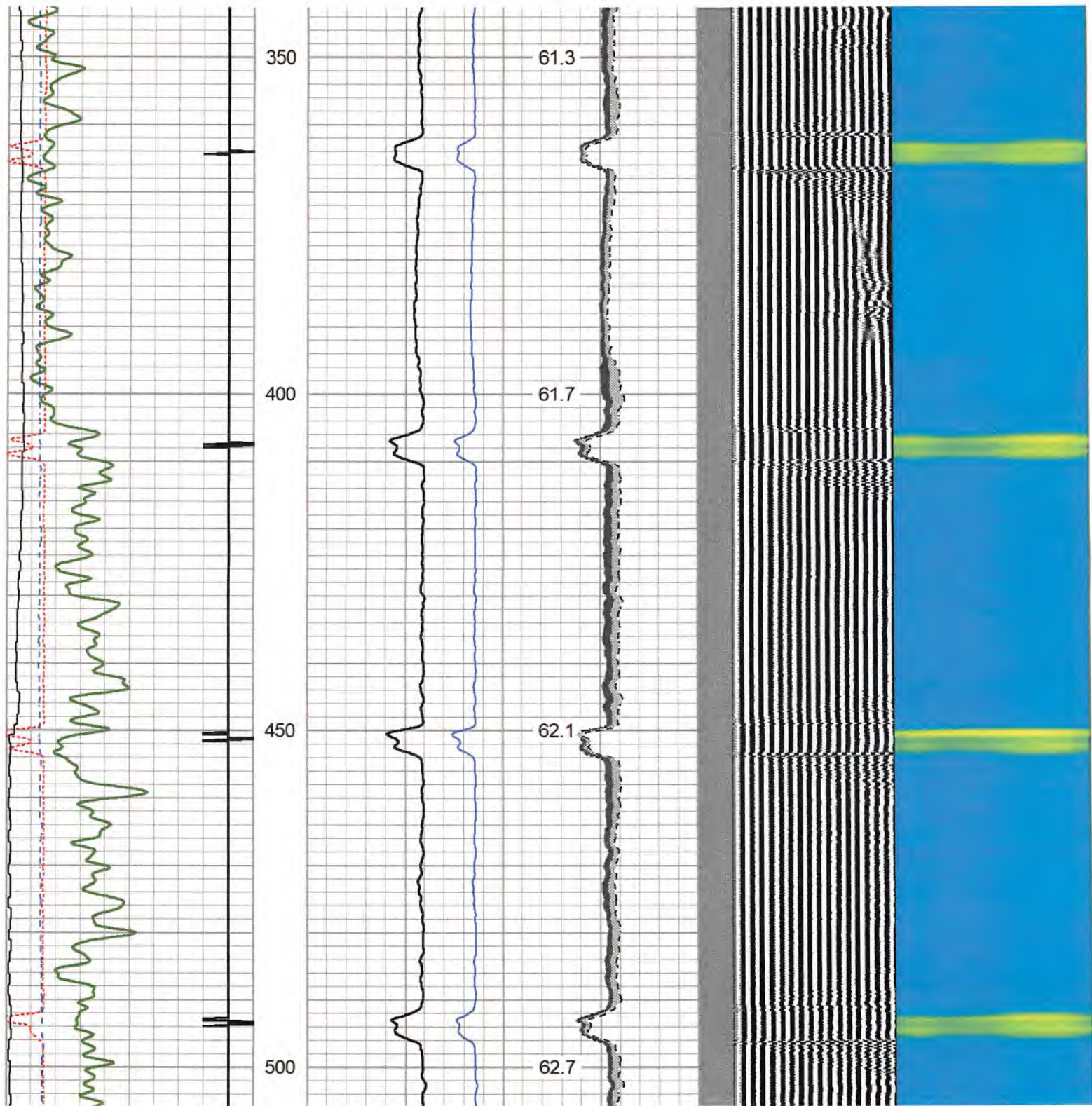
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 Presentation Format antero rcbl
 Dataset Creation Fri Dec 03 17:42:00 2021
 Charted by Depth in Feet scaled 1:240

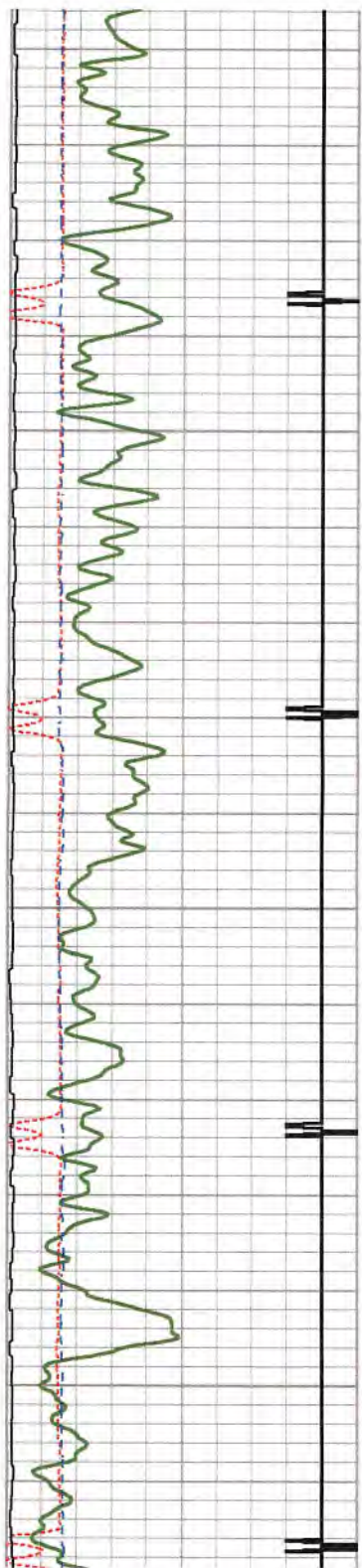
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9	Casing Collar	-1	1	BONDIX	0	0	AMPMAX	150	200 (usec)	1200		
0	Gamma Ray (GAPI)	150			0	0	AMPAVG	150				
Line Speed				TEMP								
-100	(ft/min)	100			(degF)							
0	Line Tension (lb)	2000										







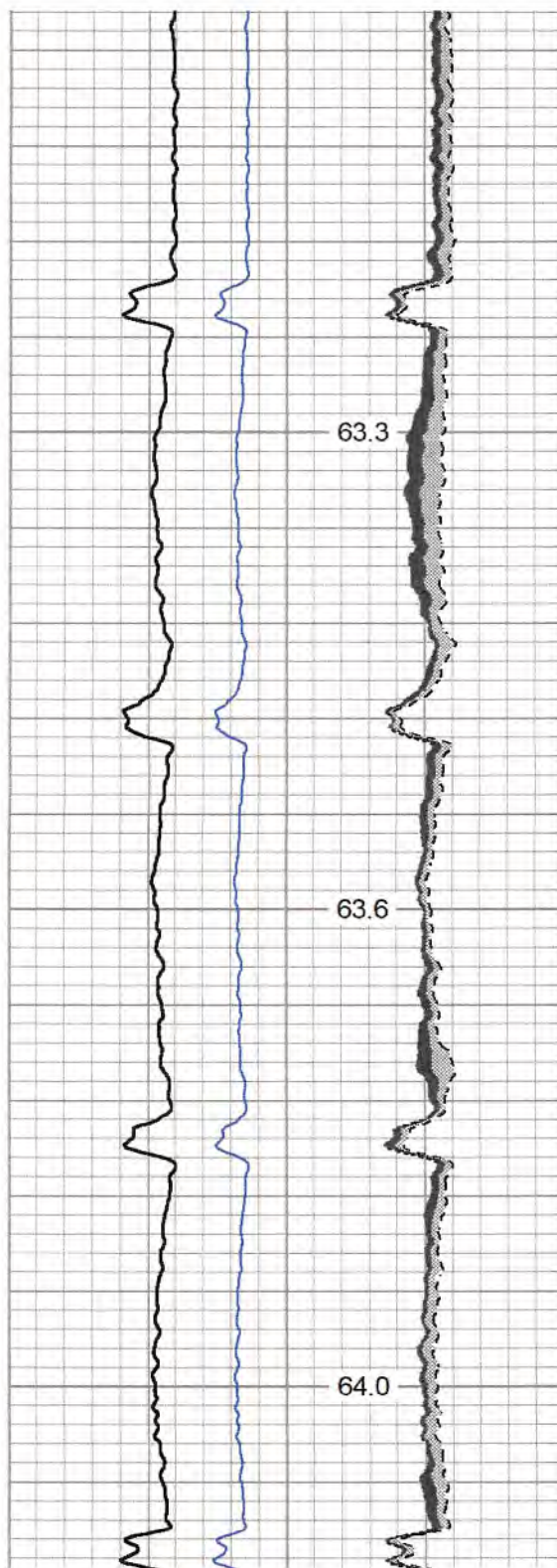




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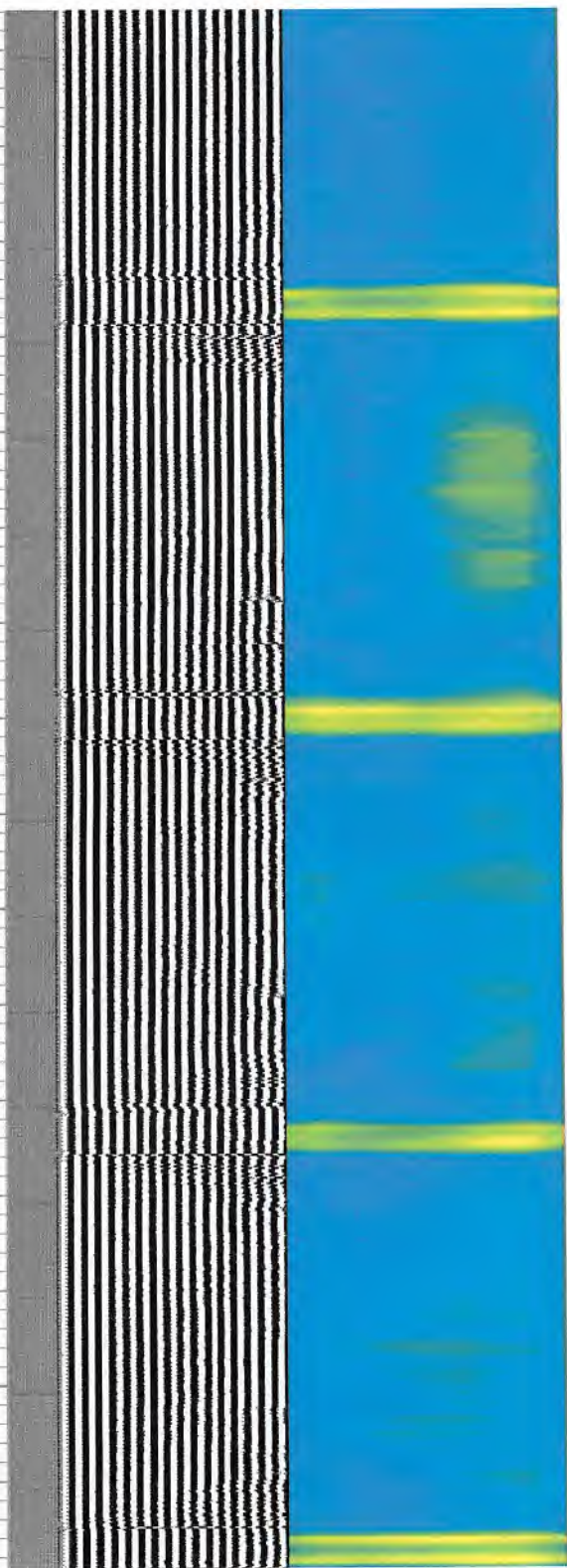
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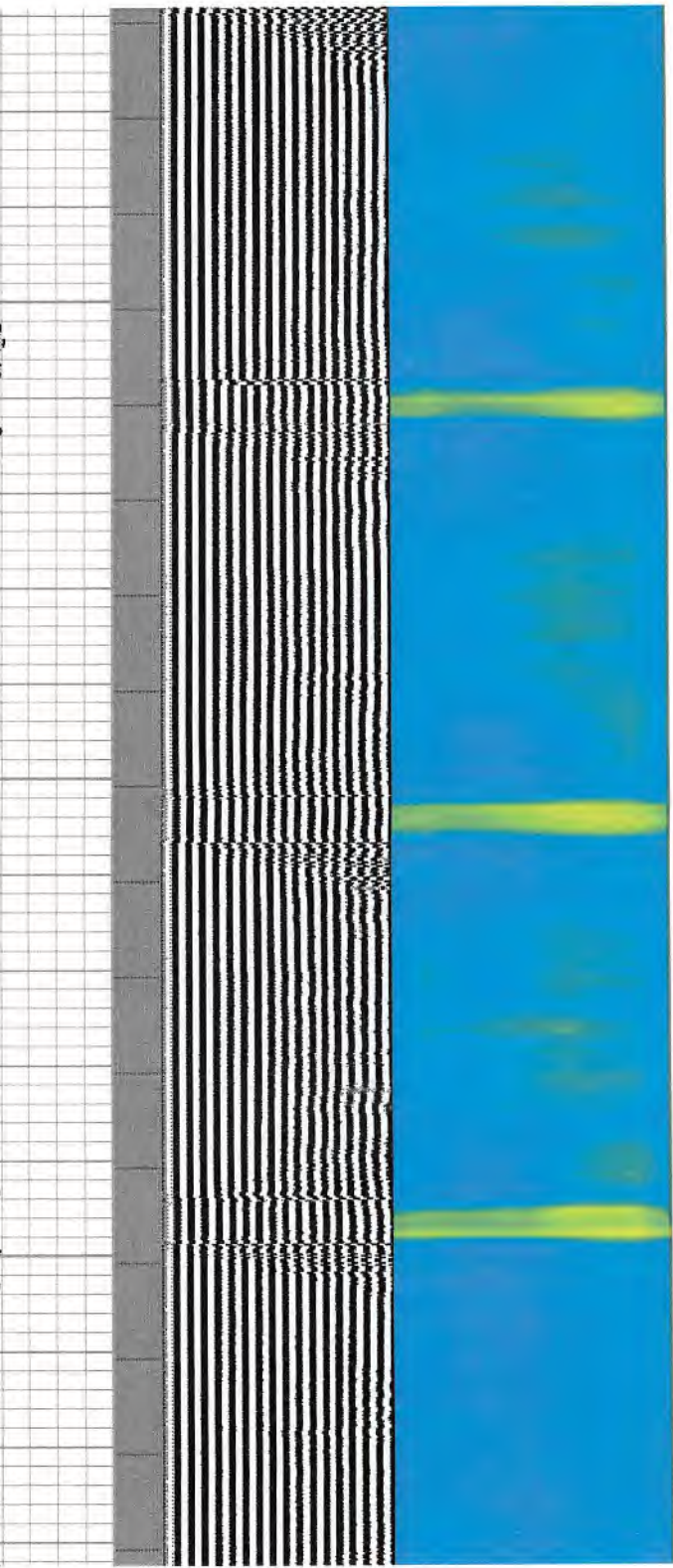
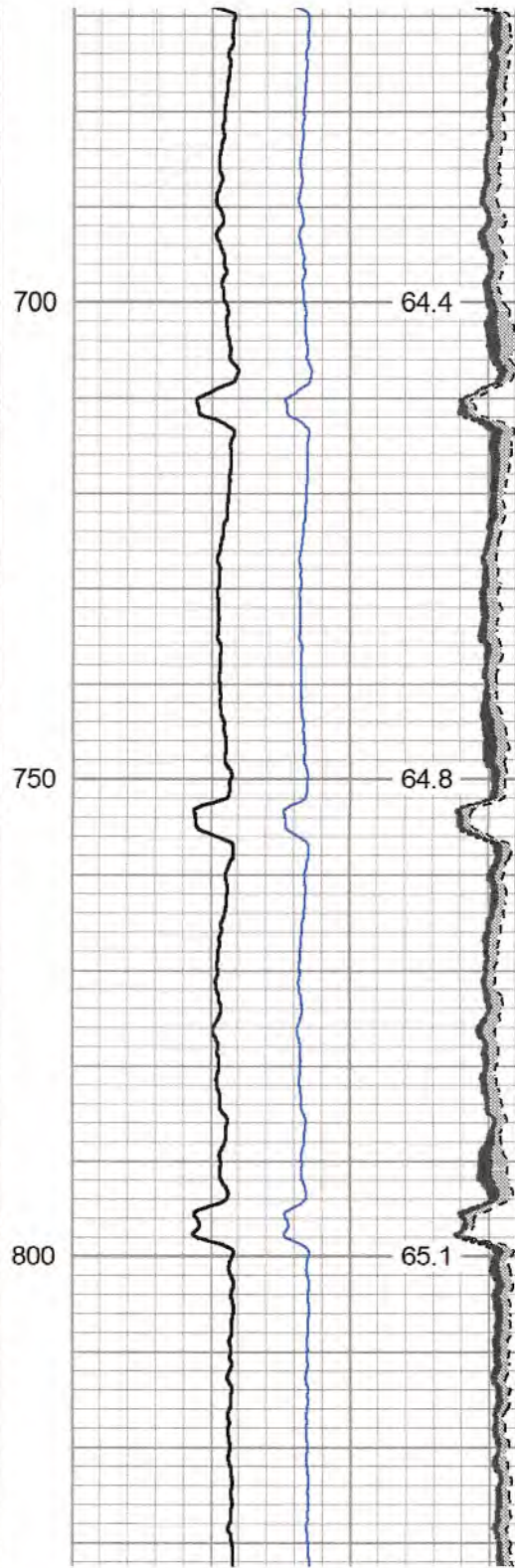
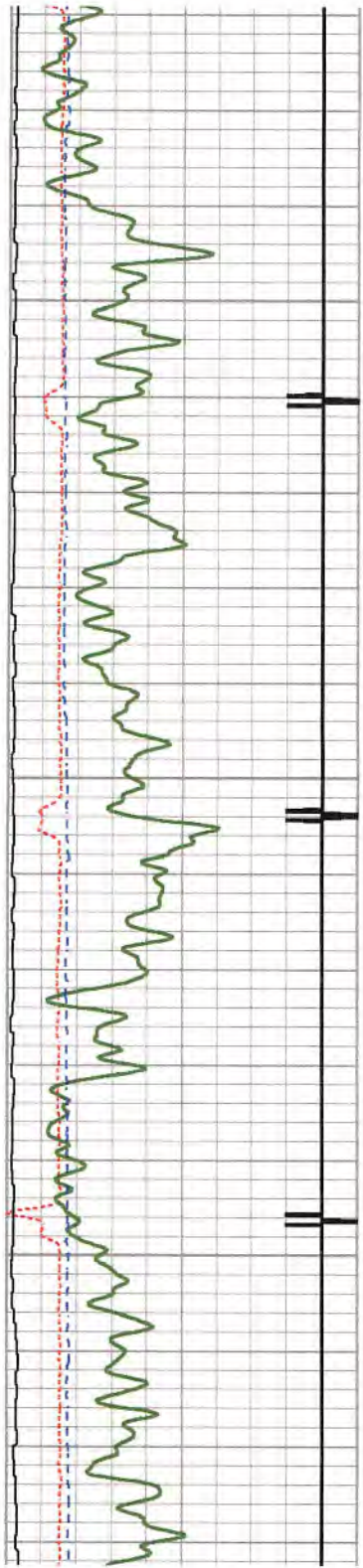


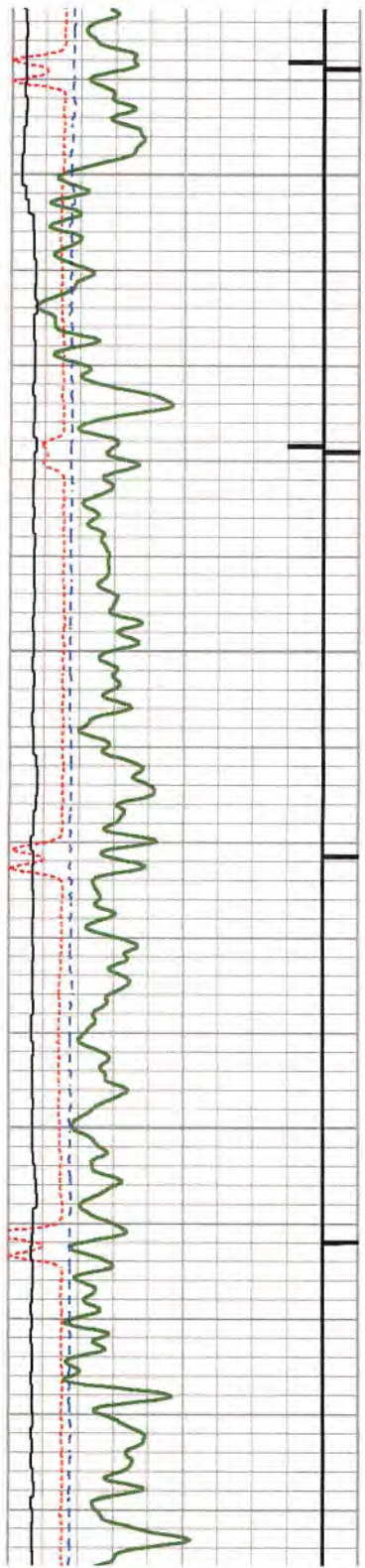
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63.6

64.0



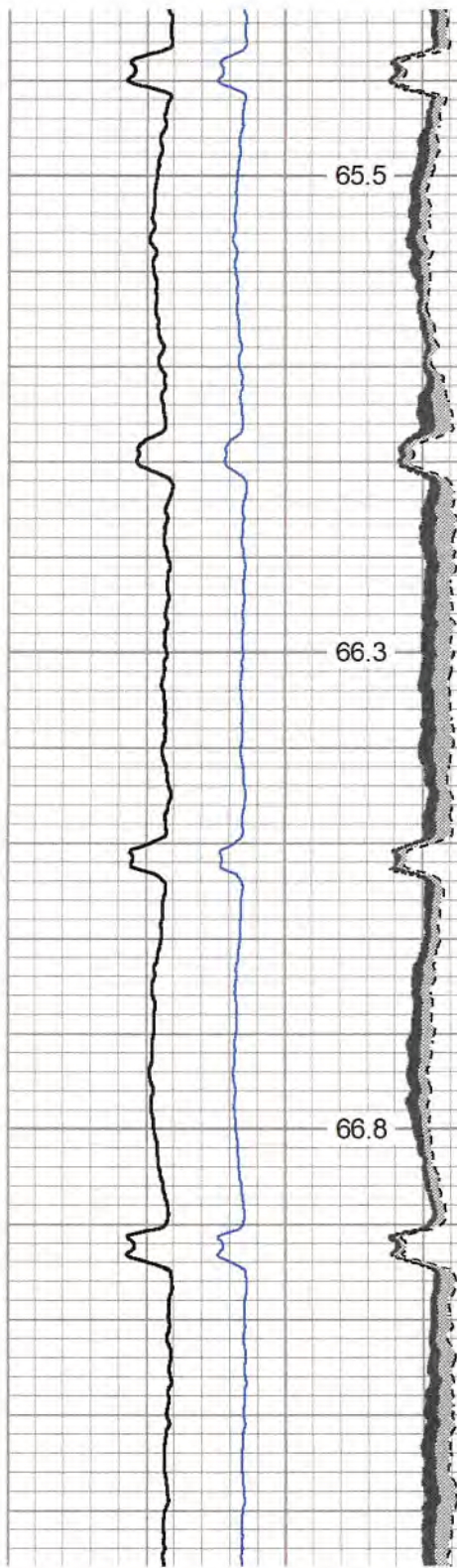




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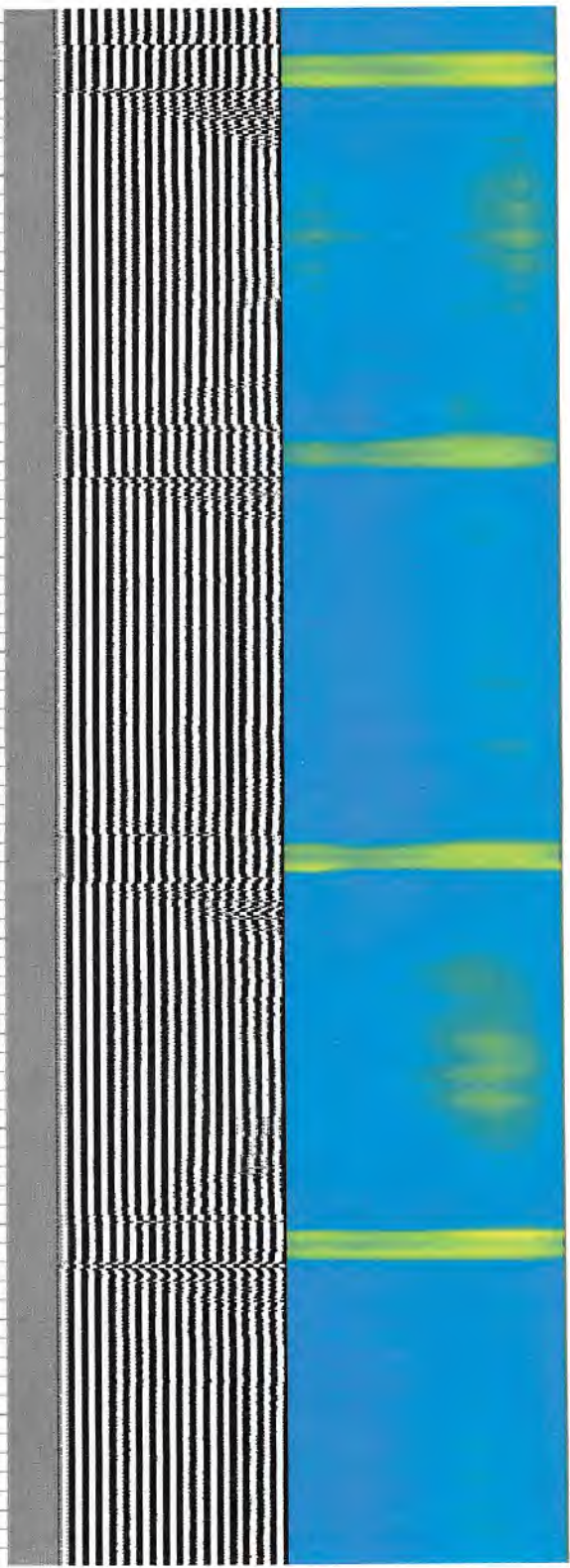
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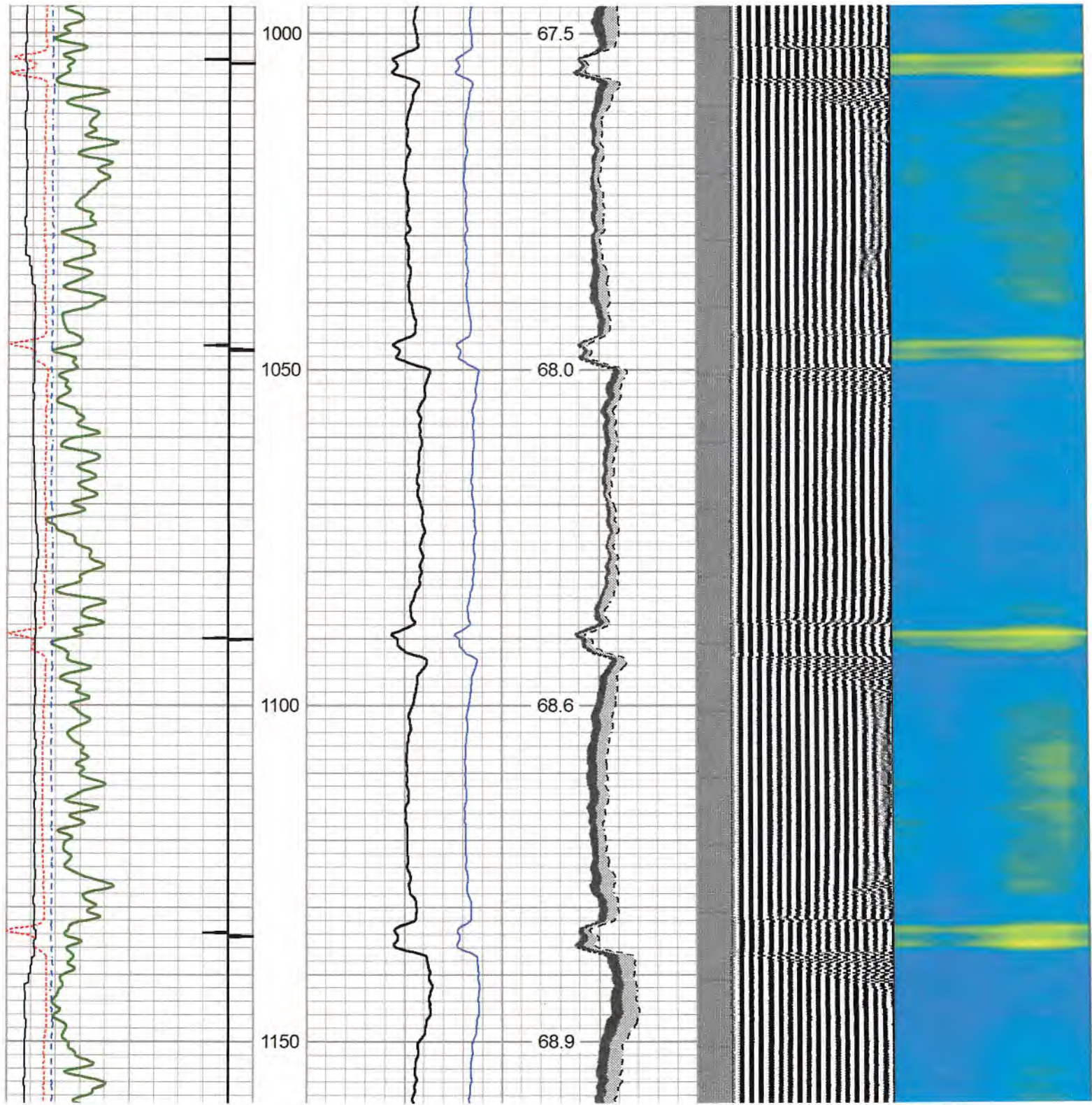


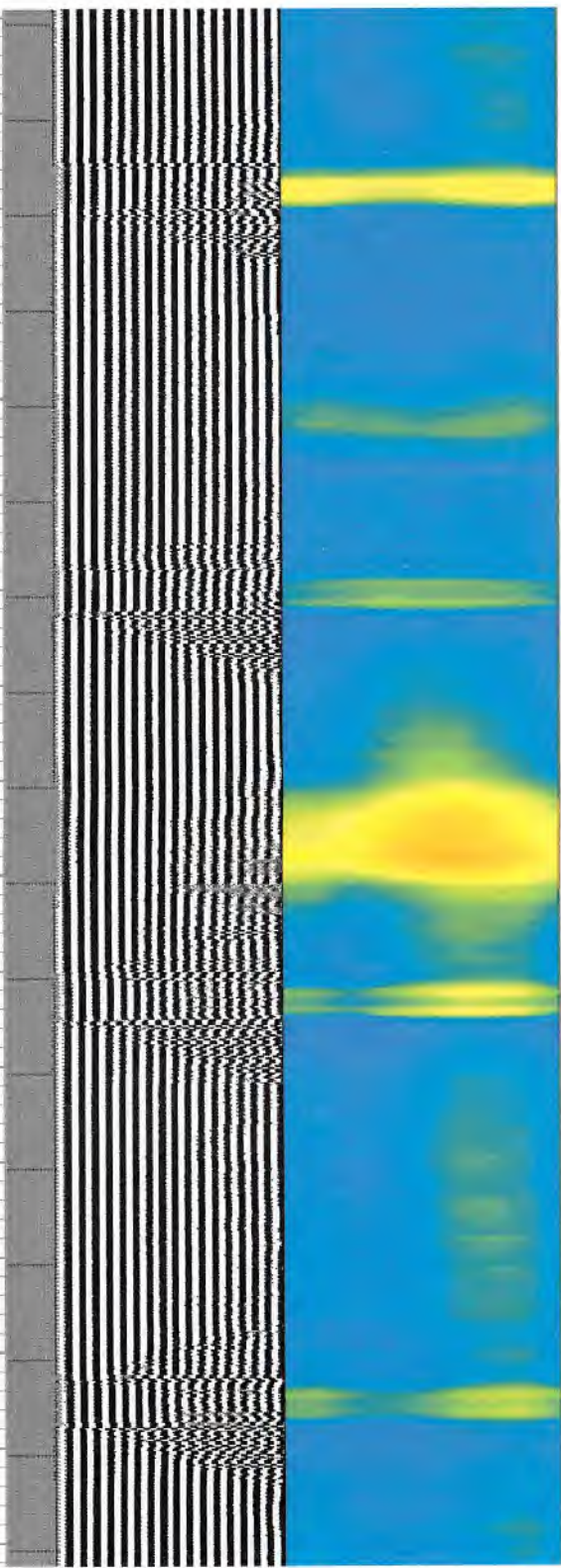
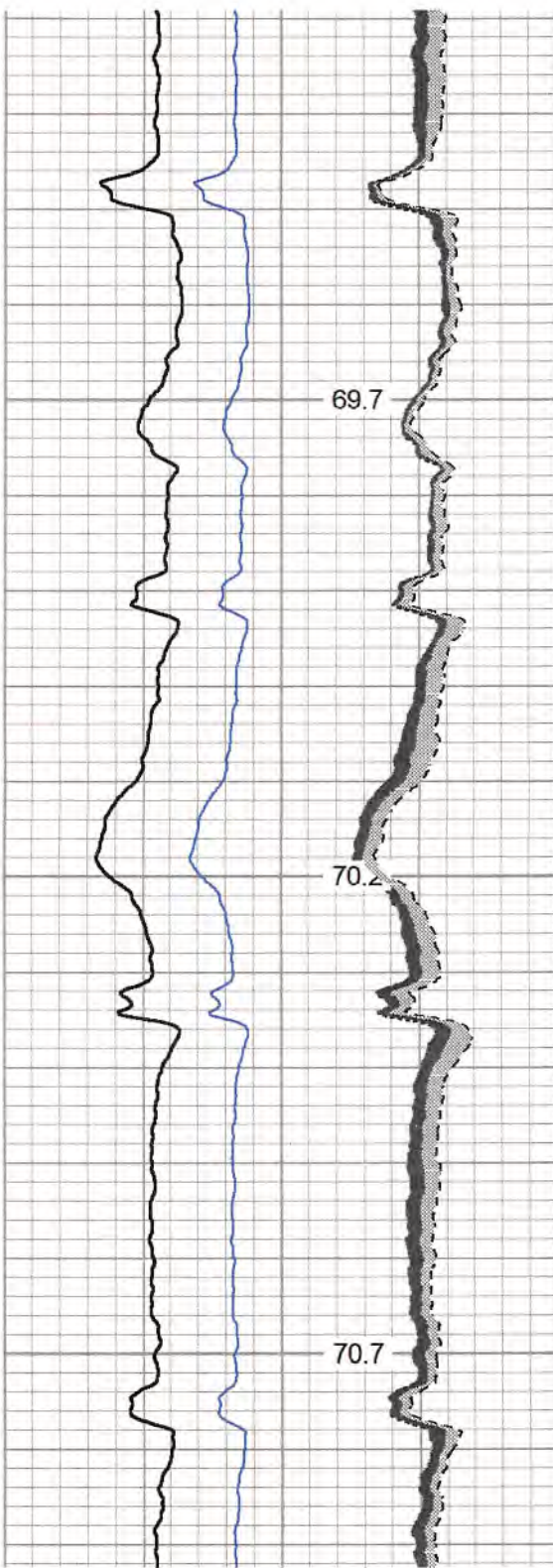
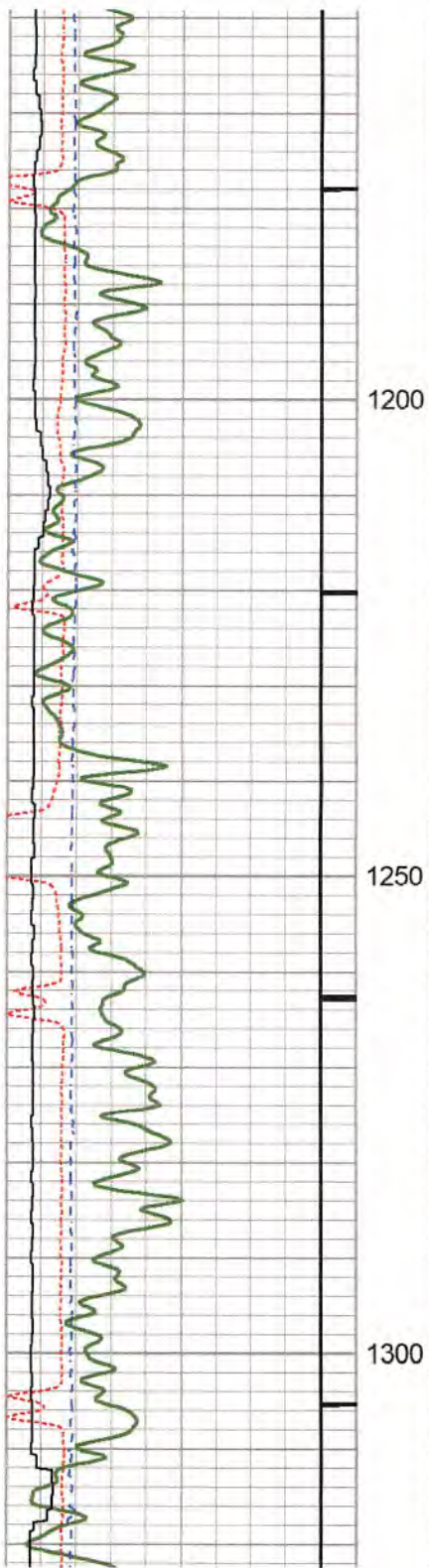
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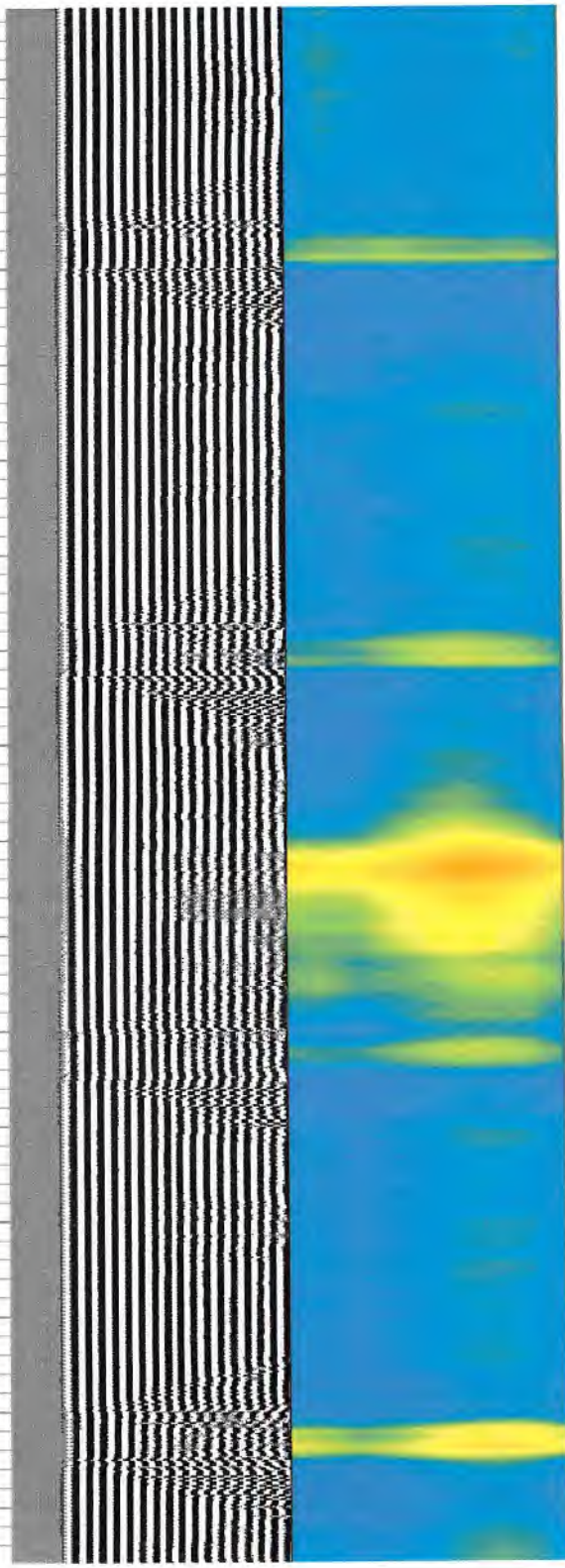
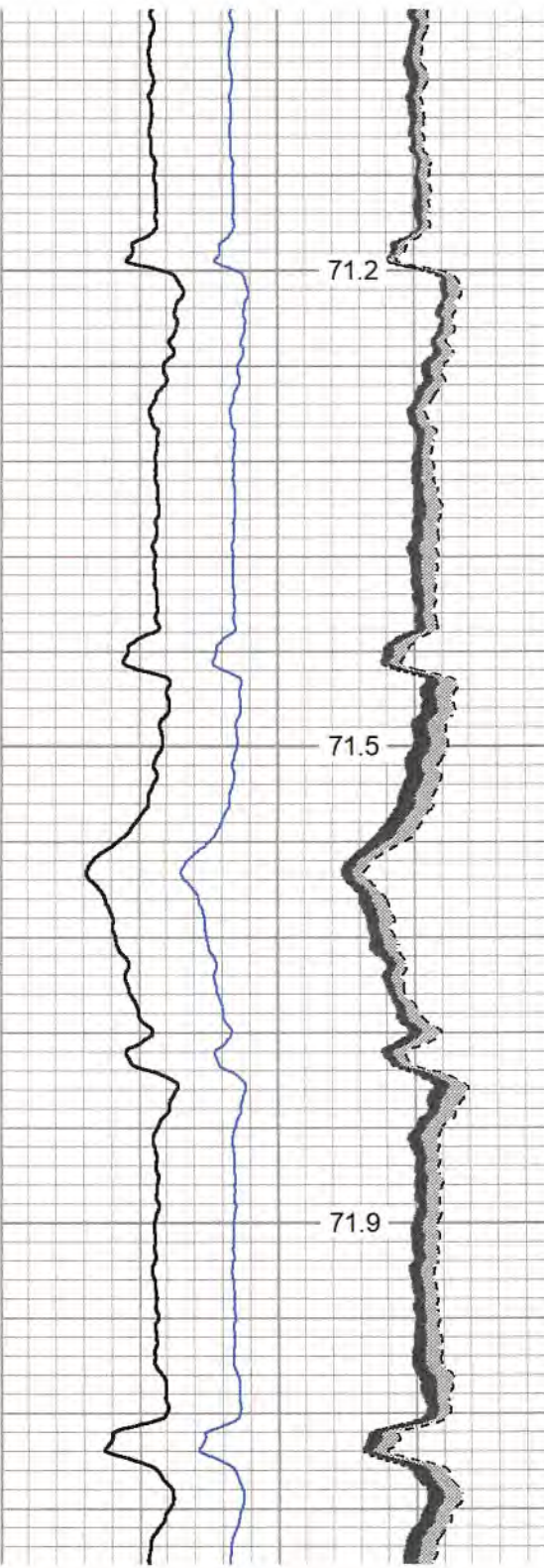
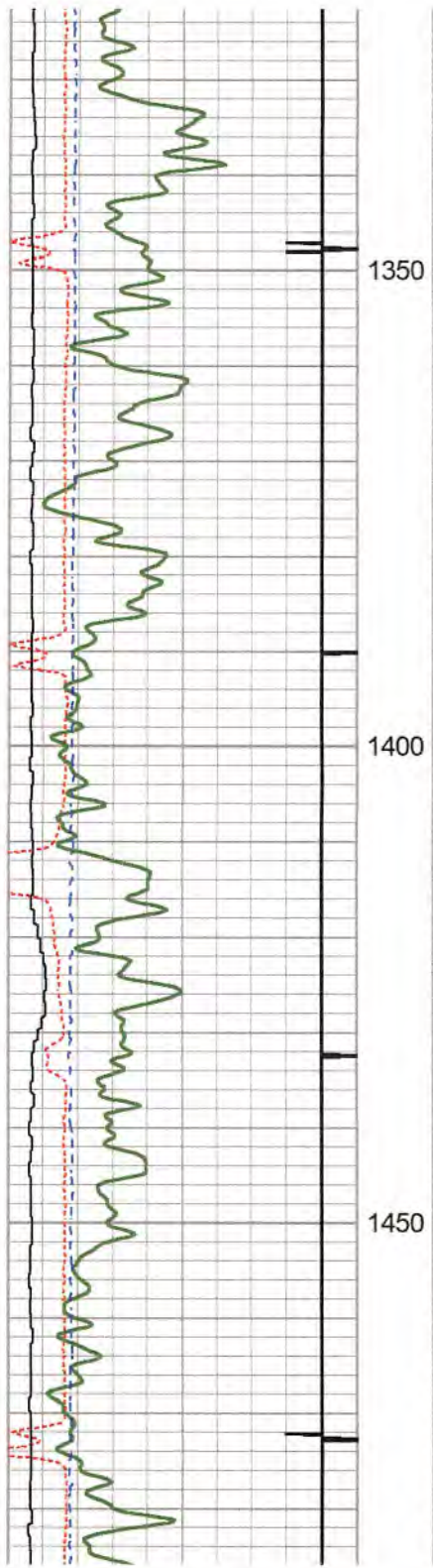
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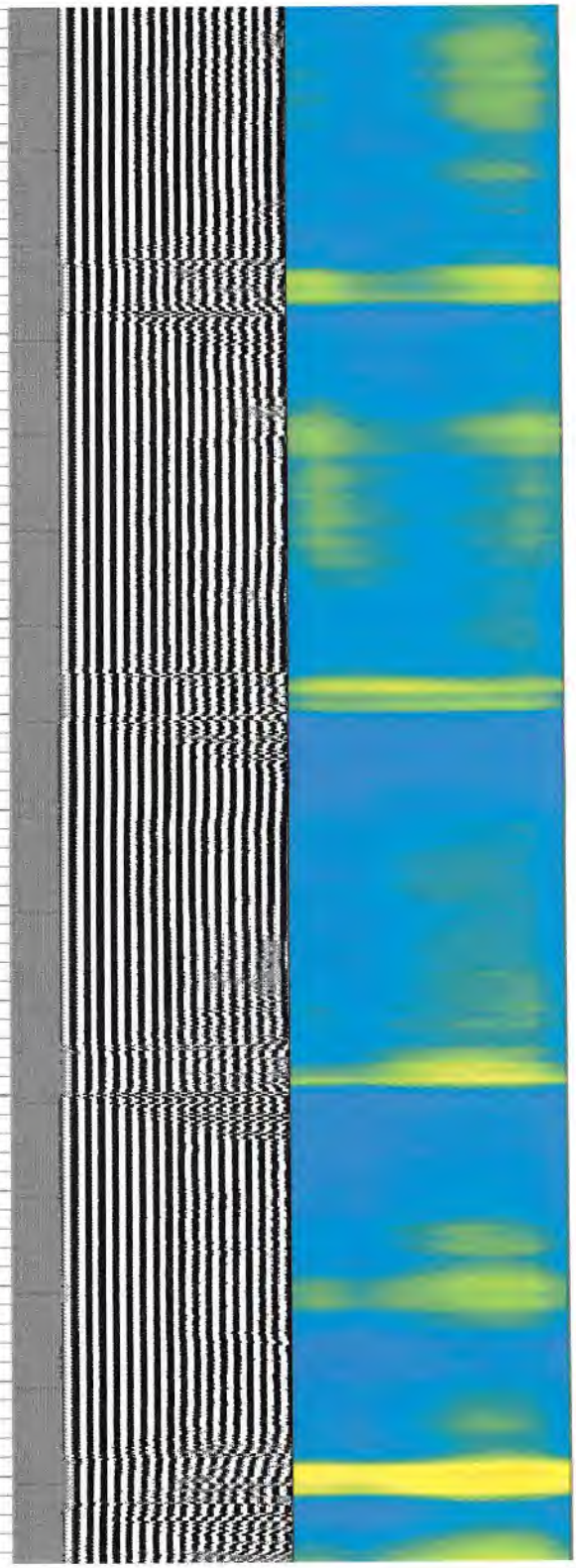
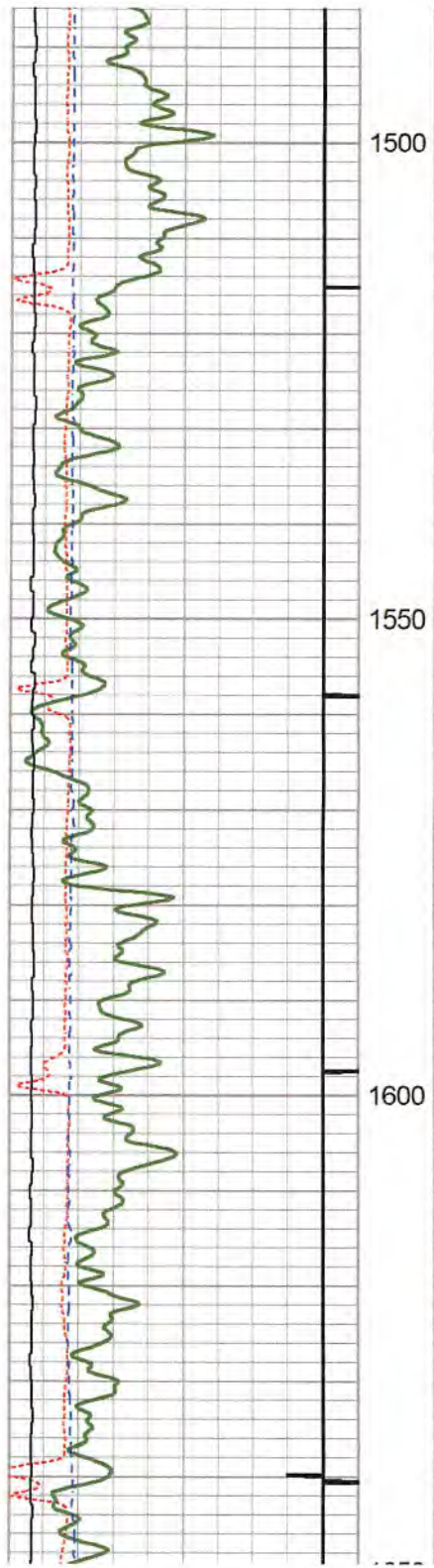
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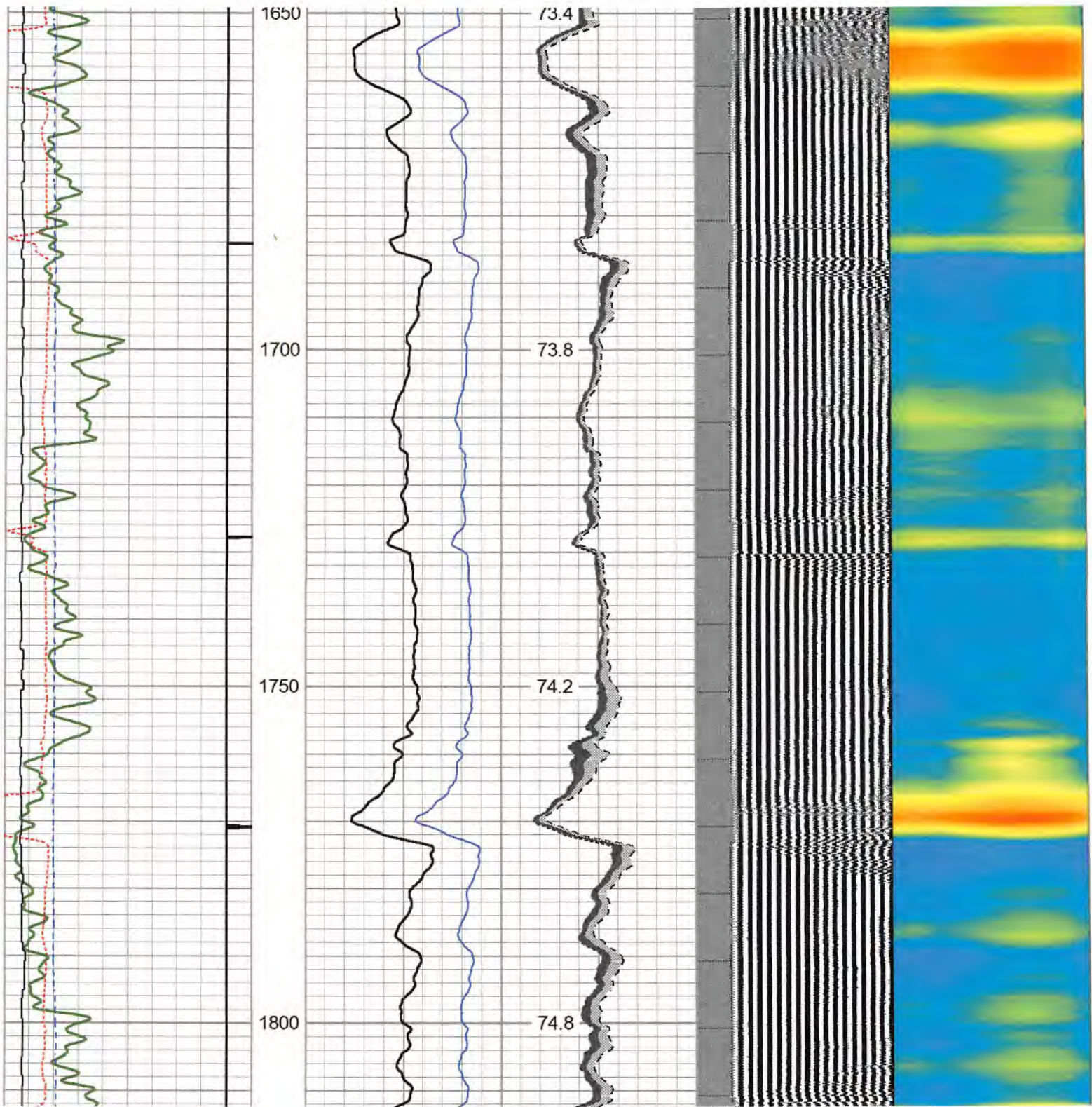


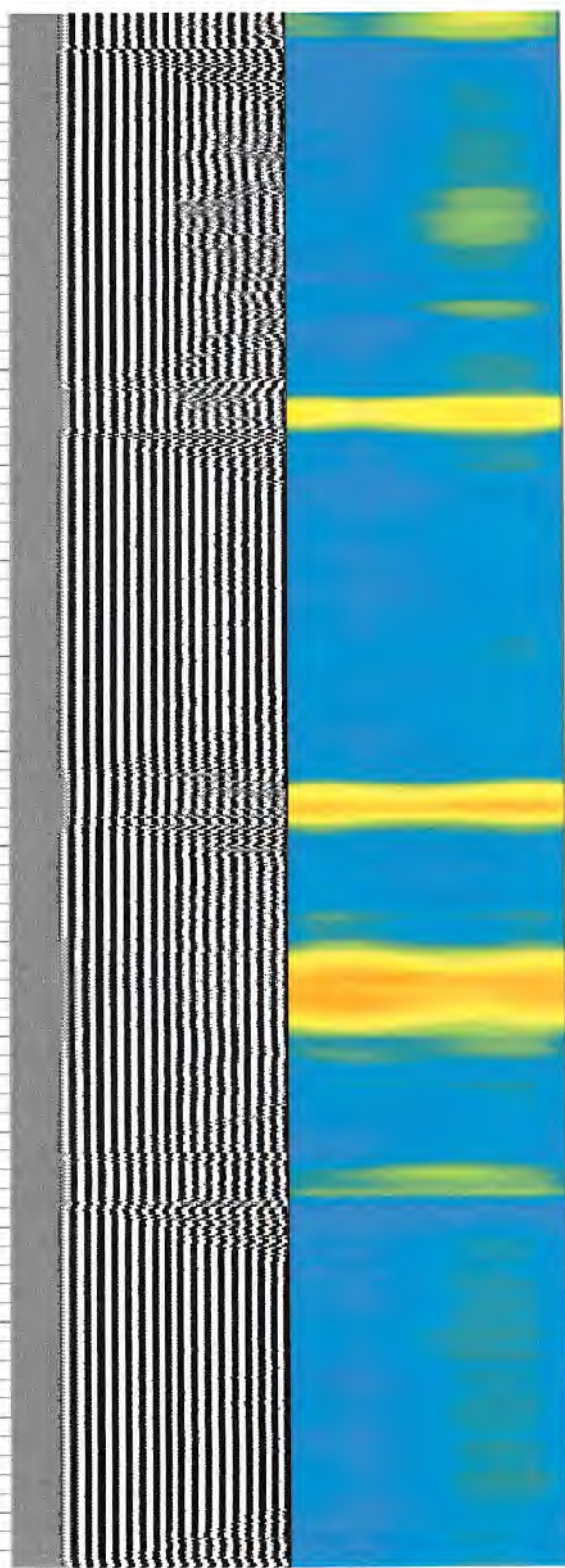
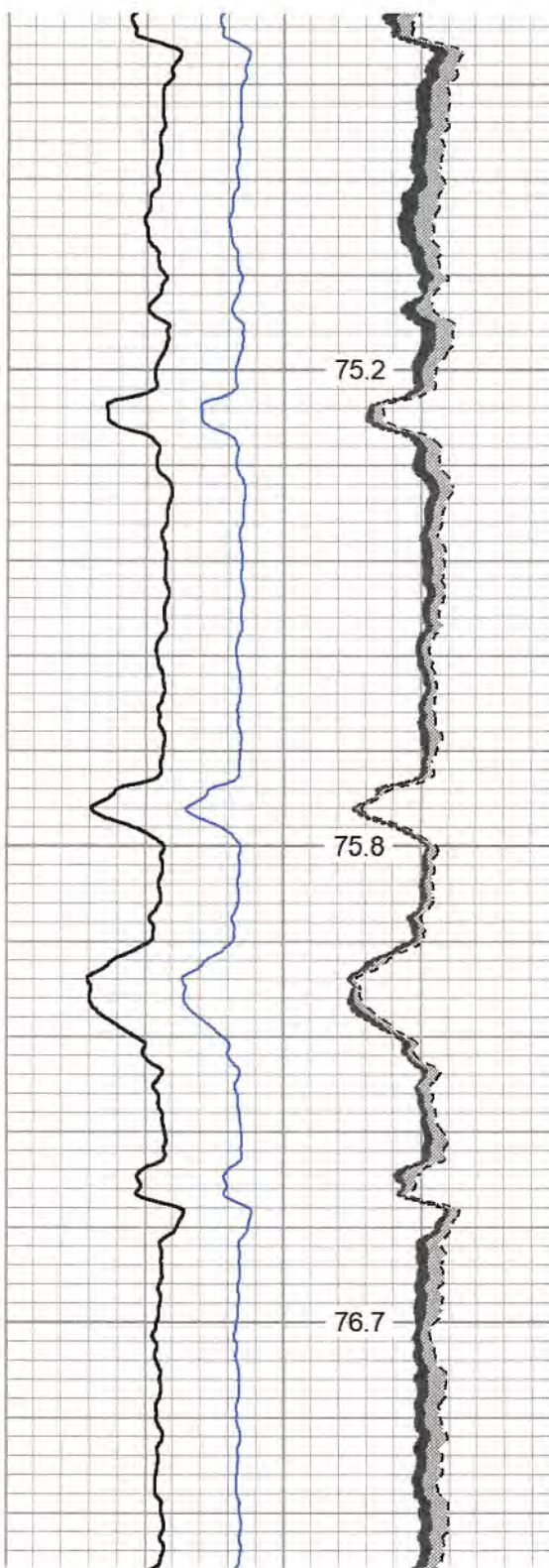
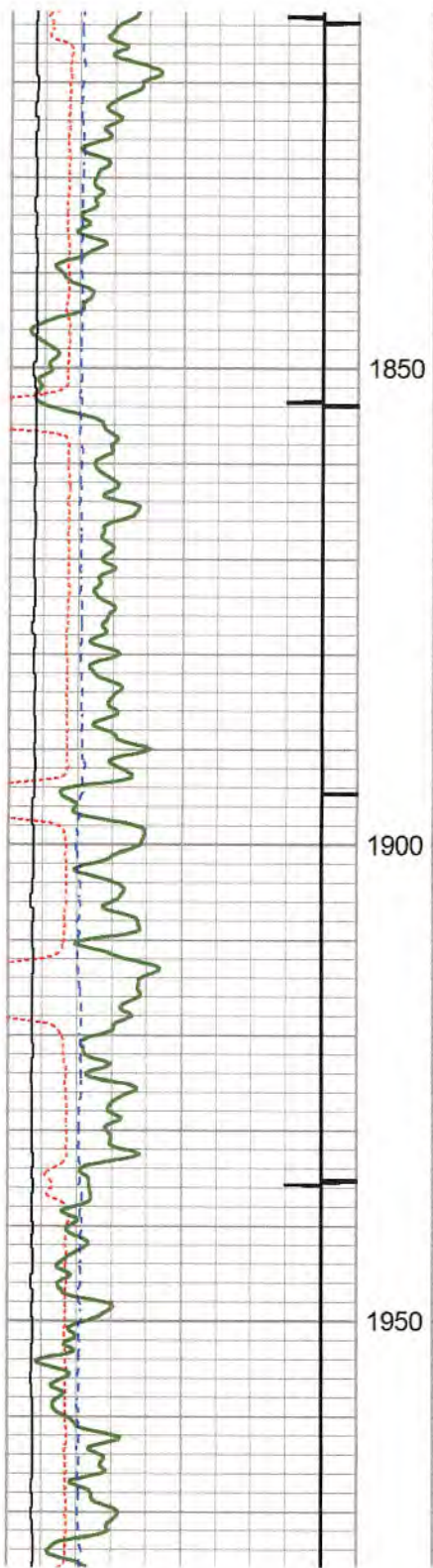


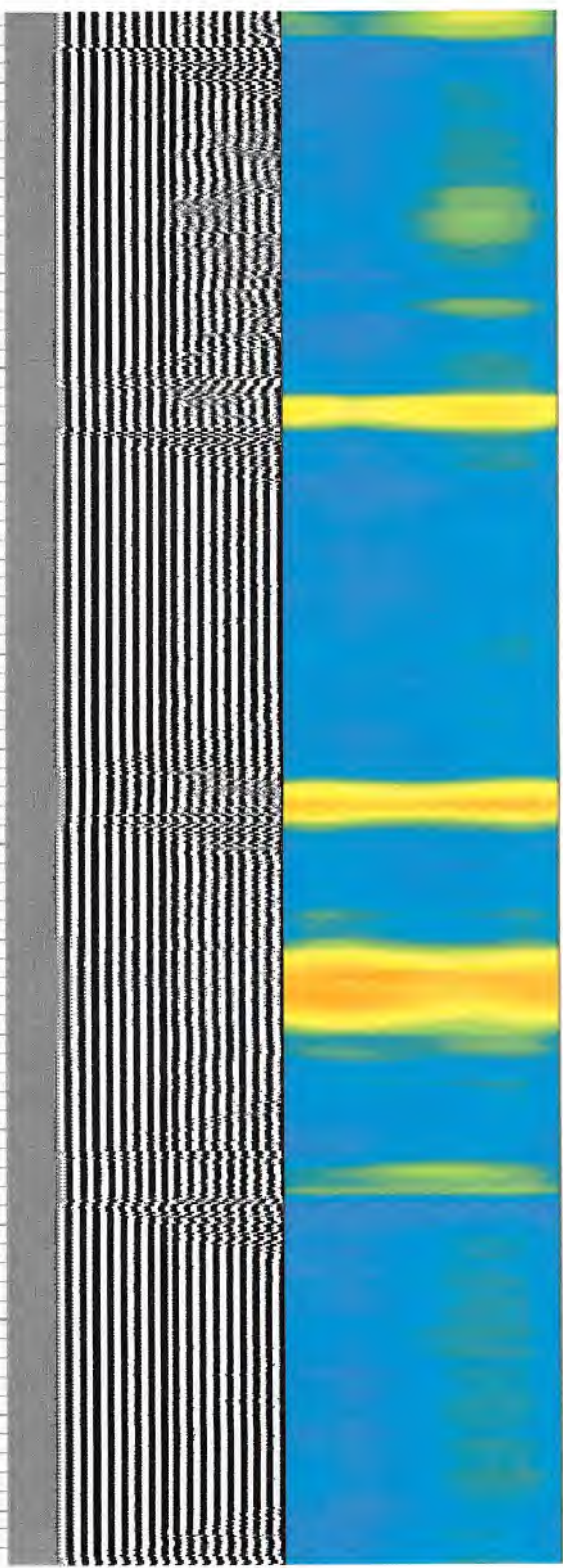
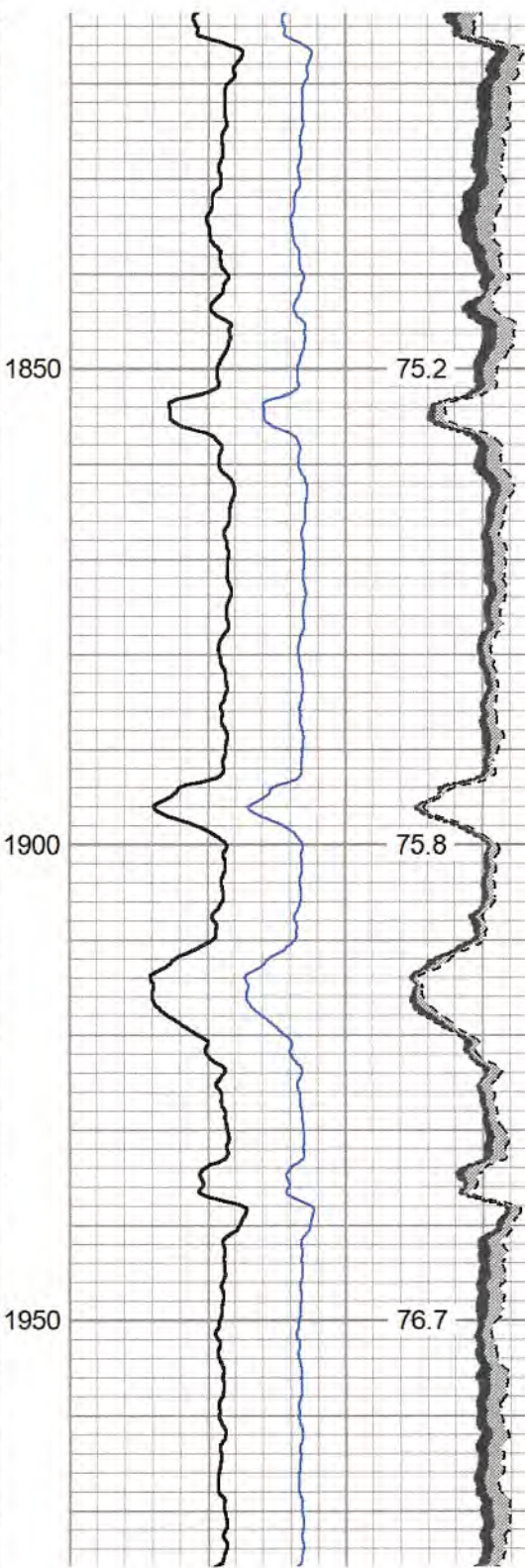
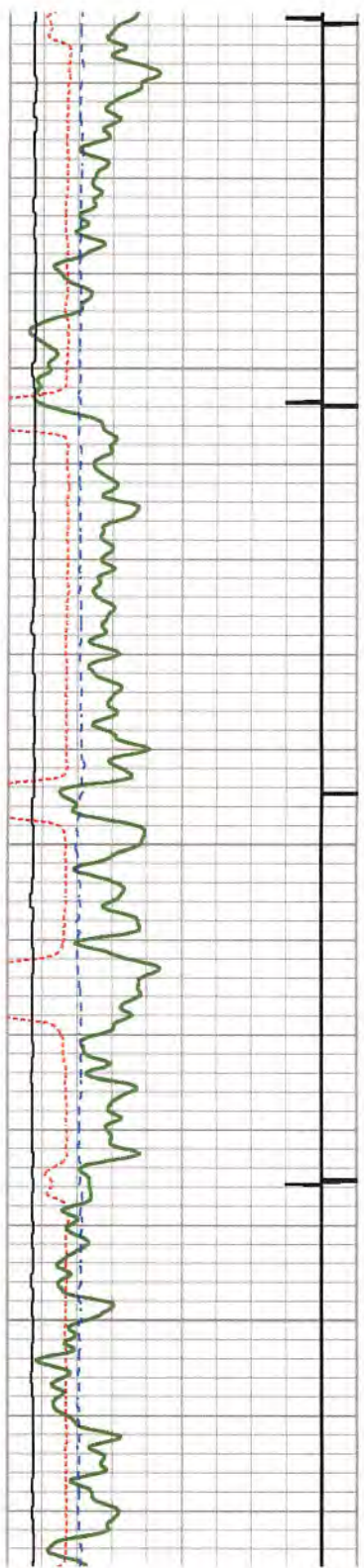


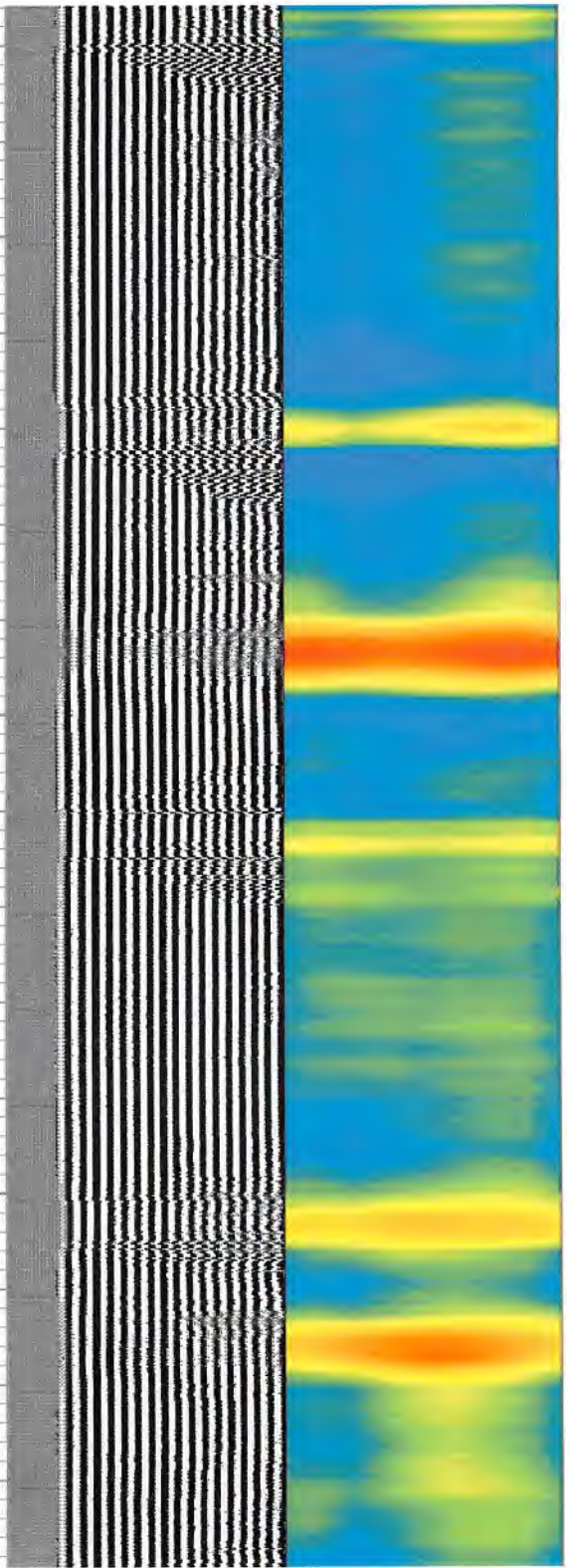
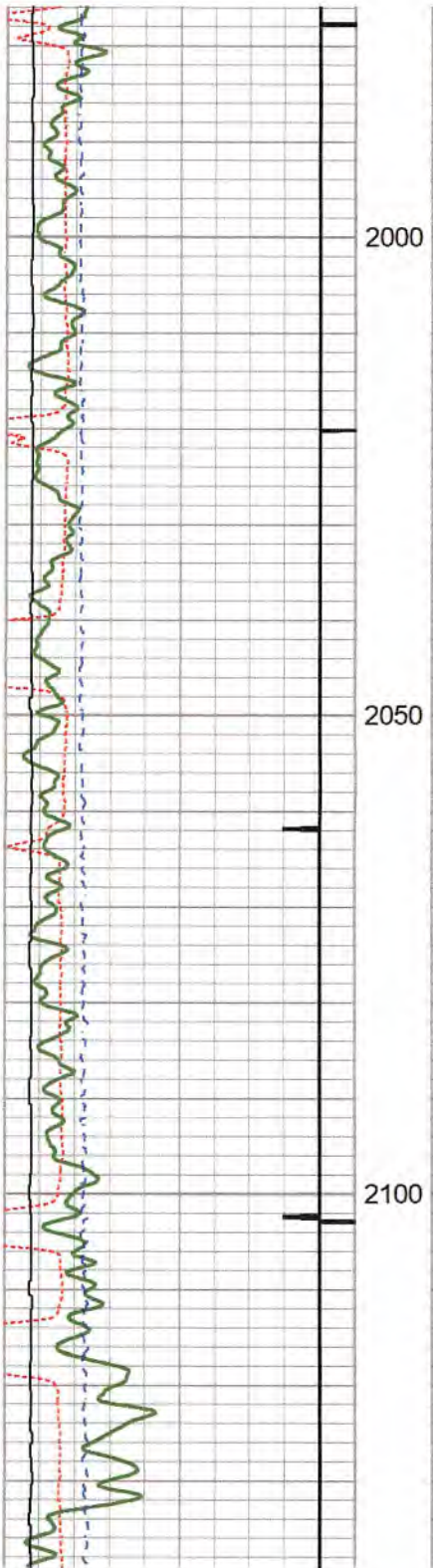


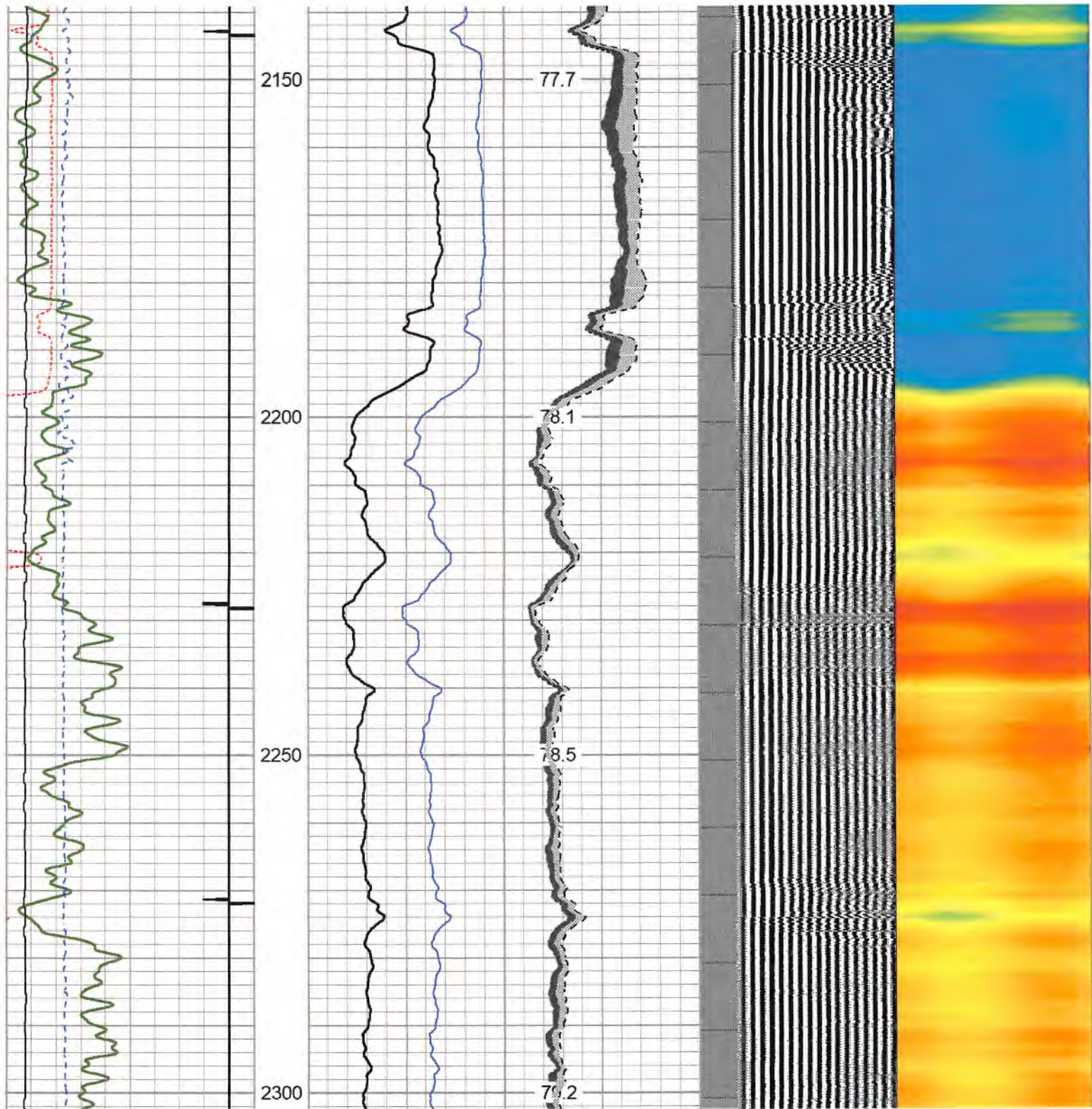


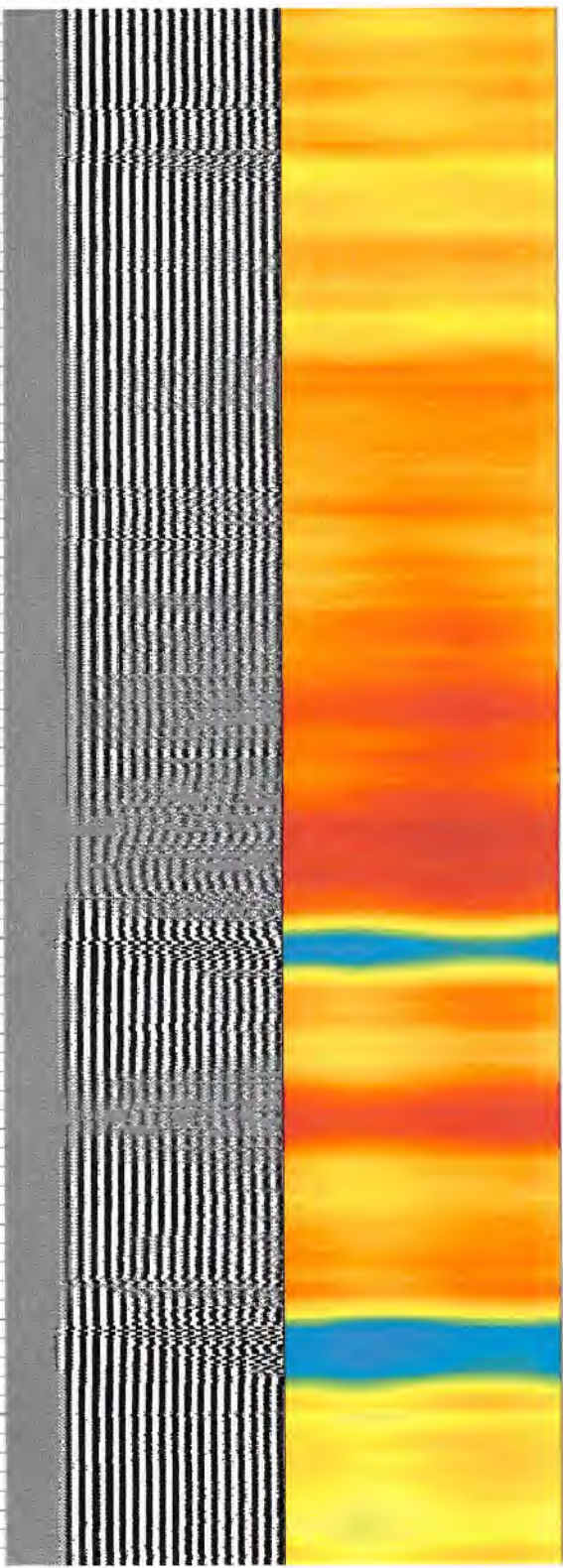
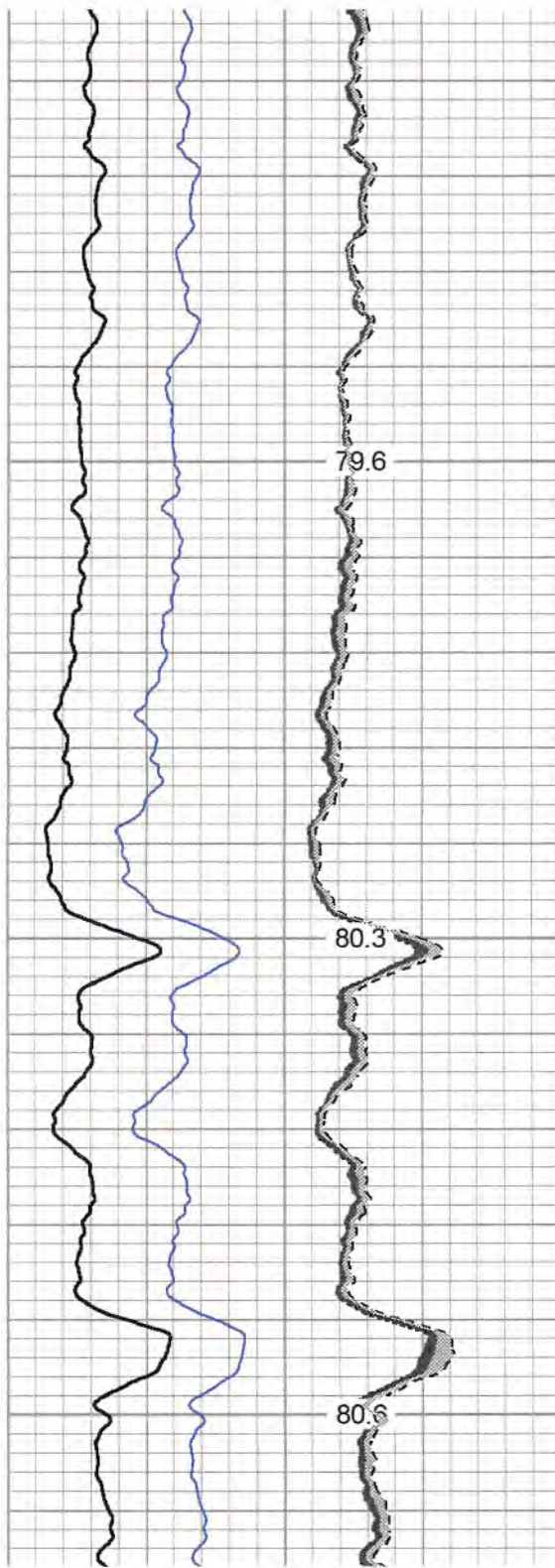
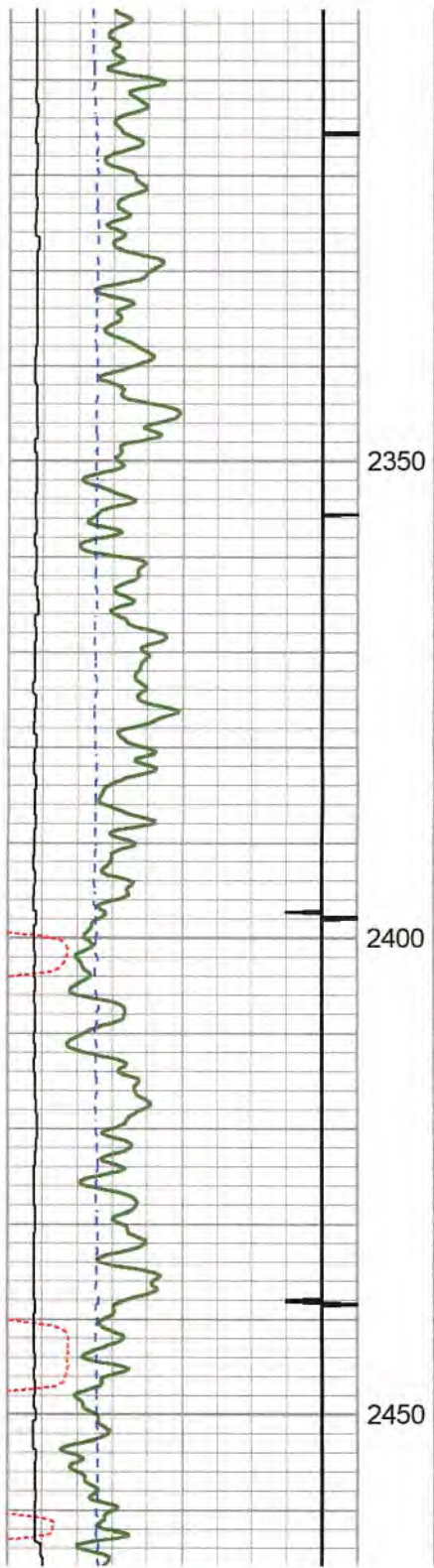


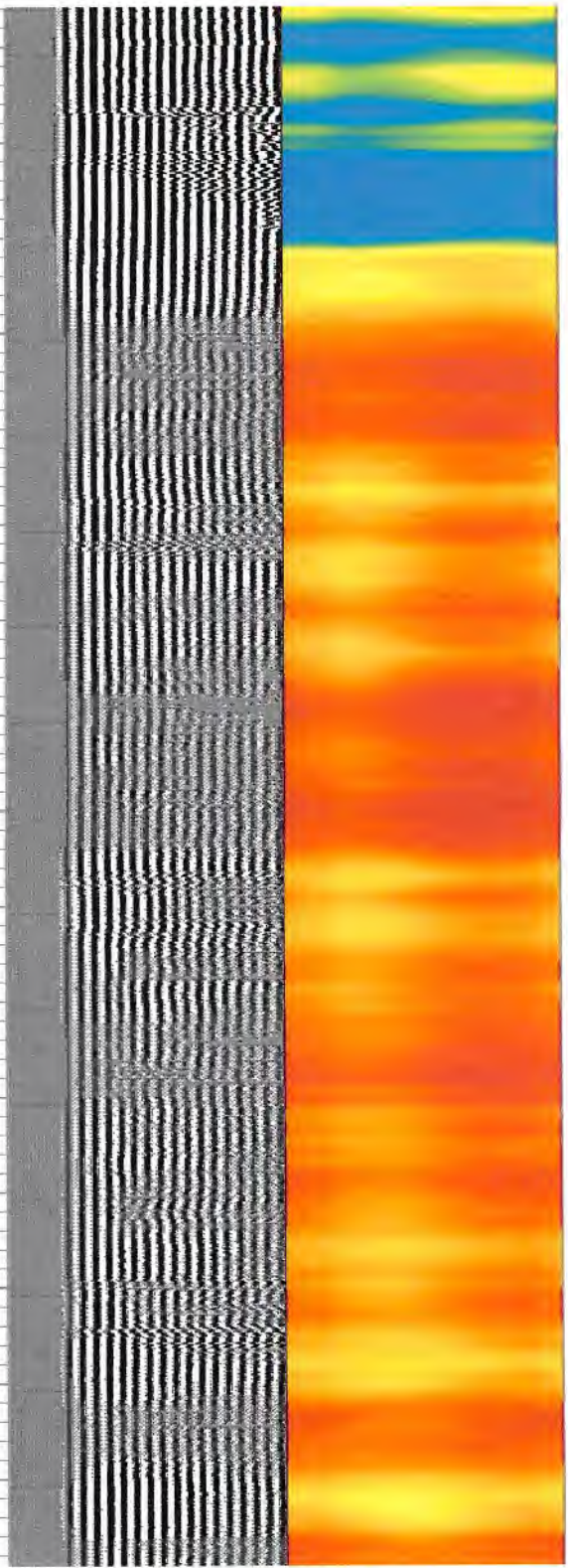
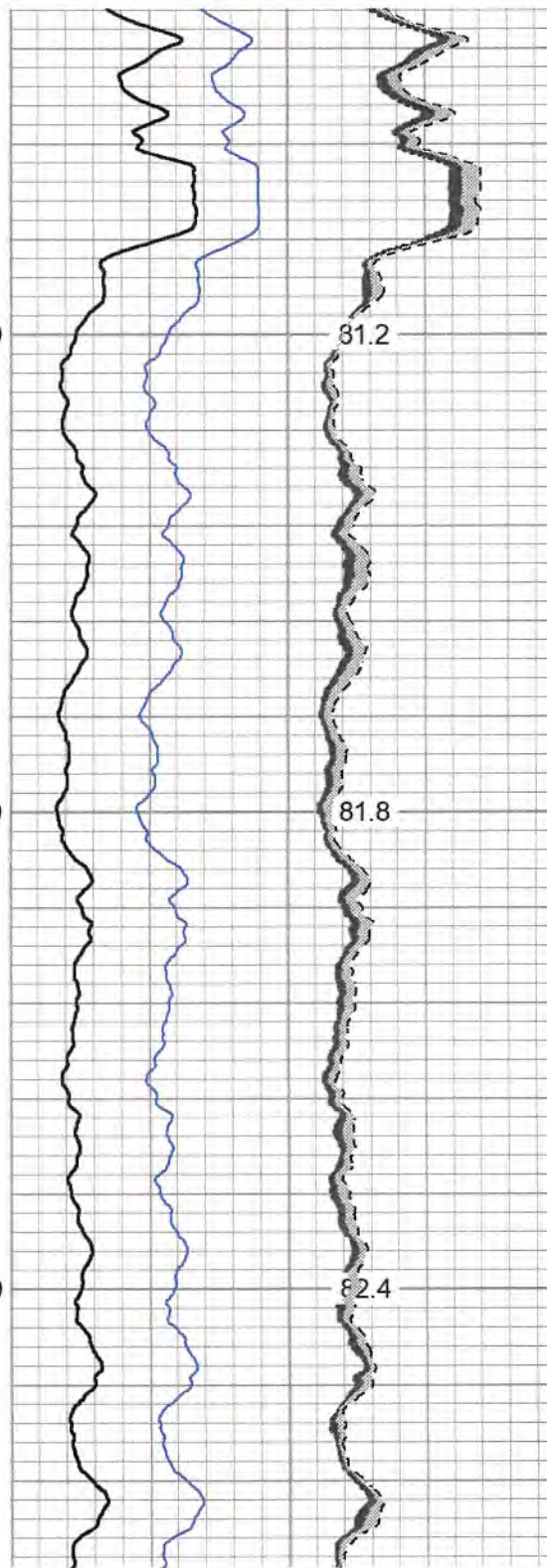
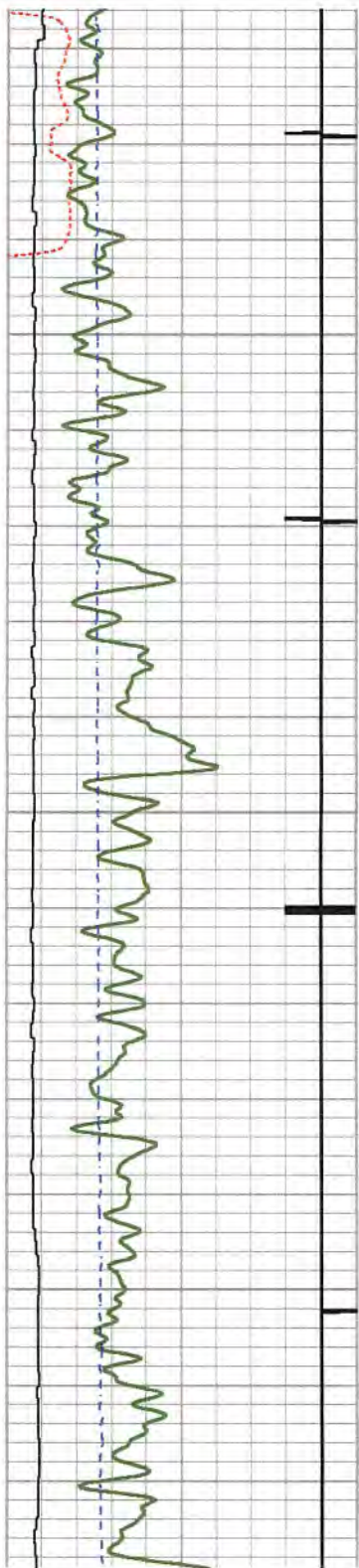


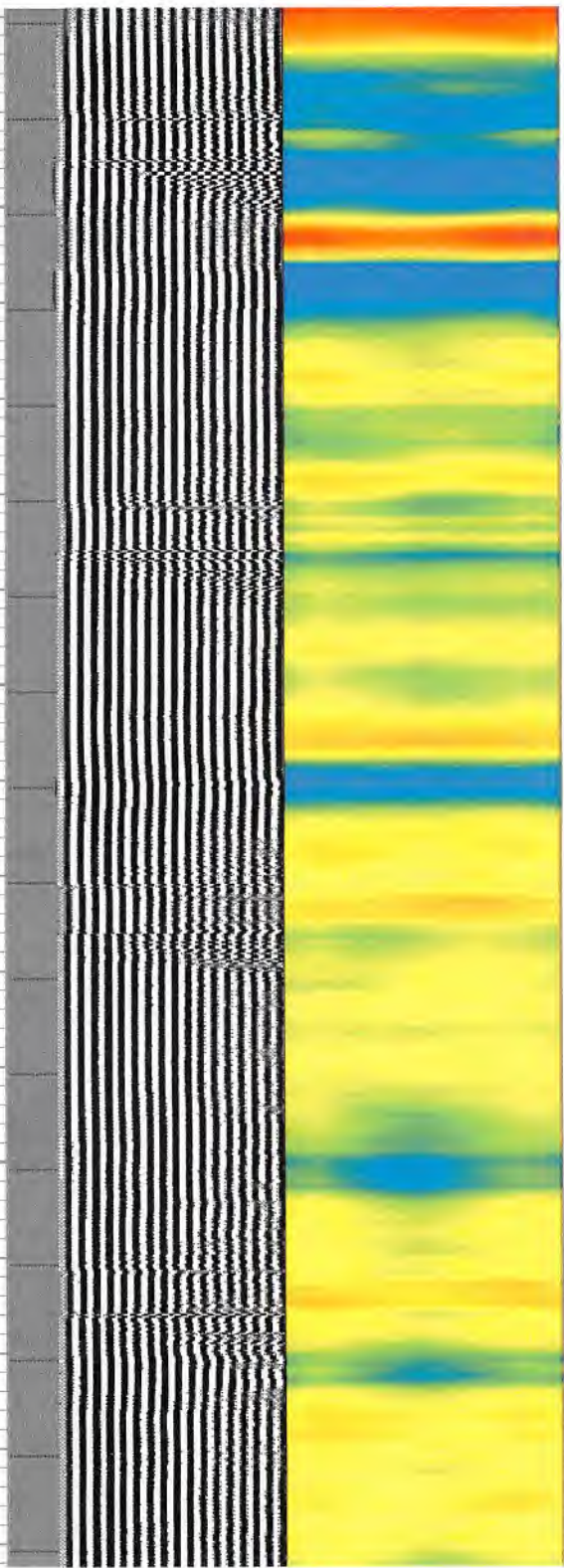
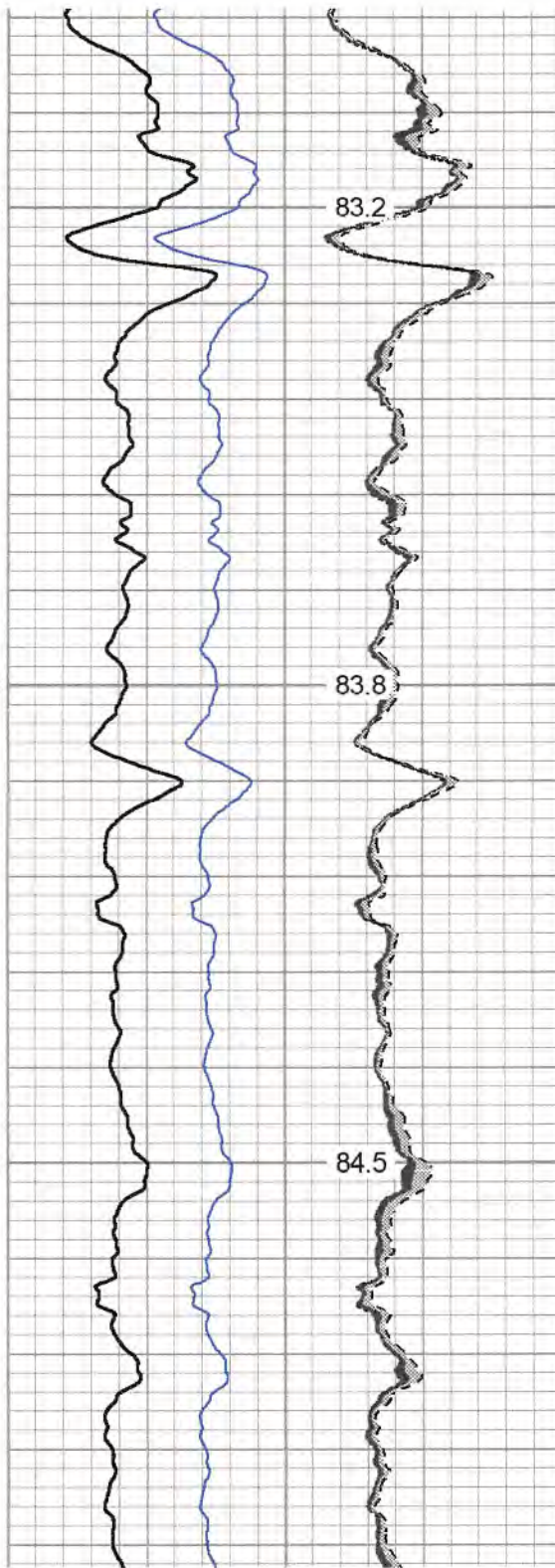
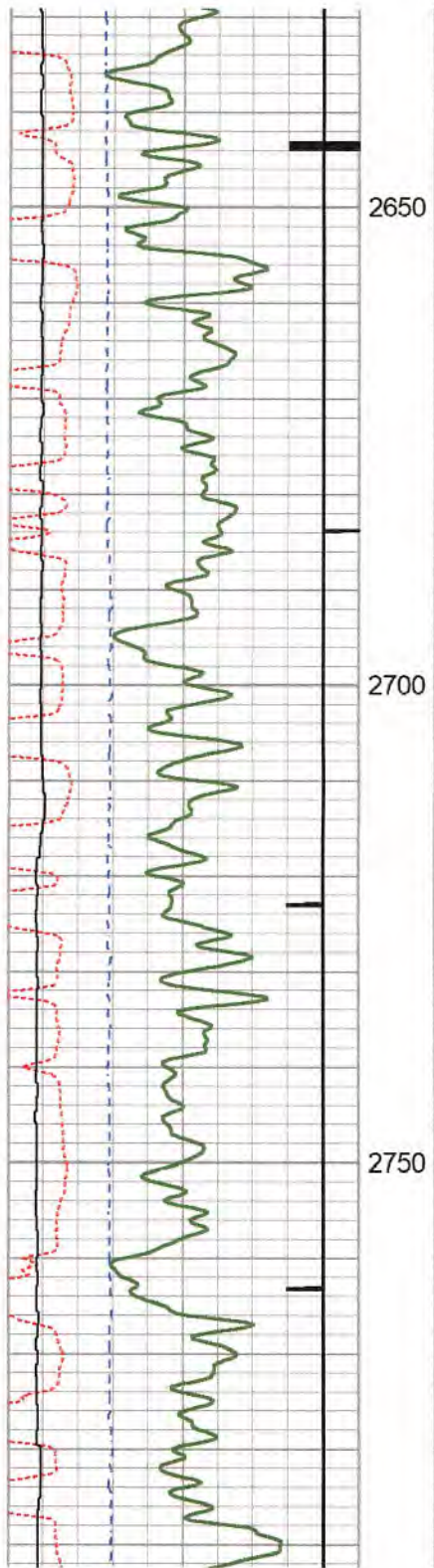


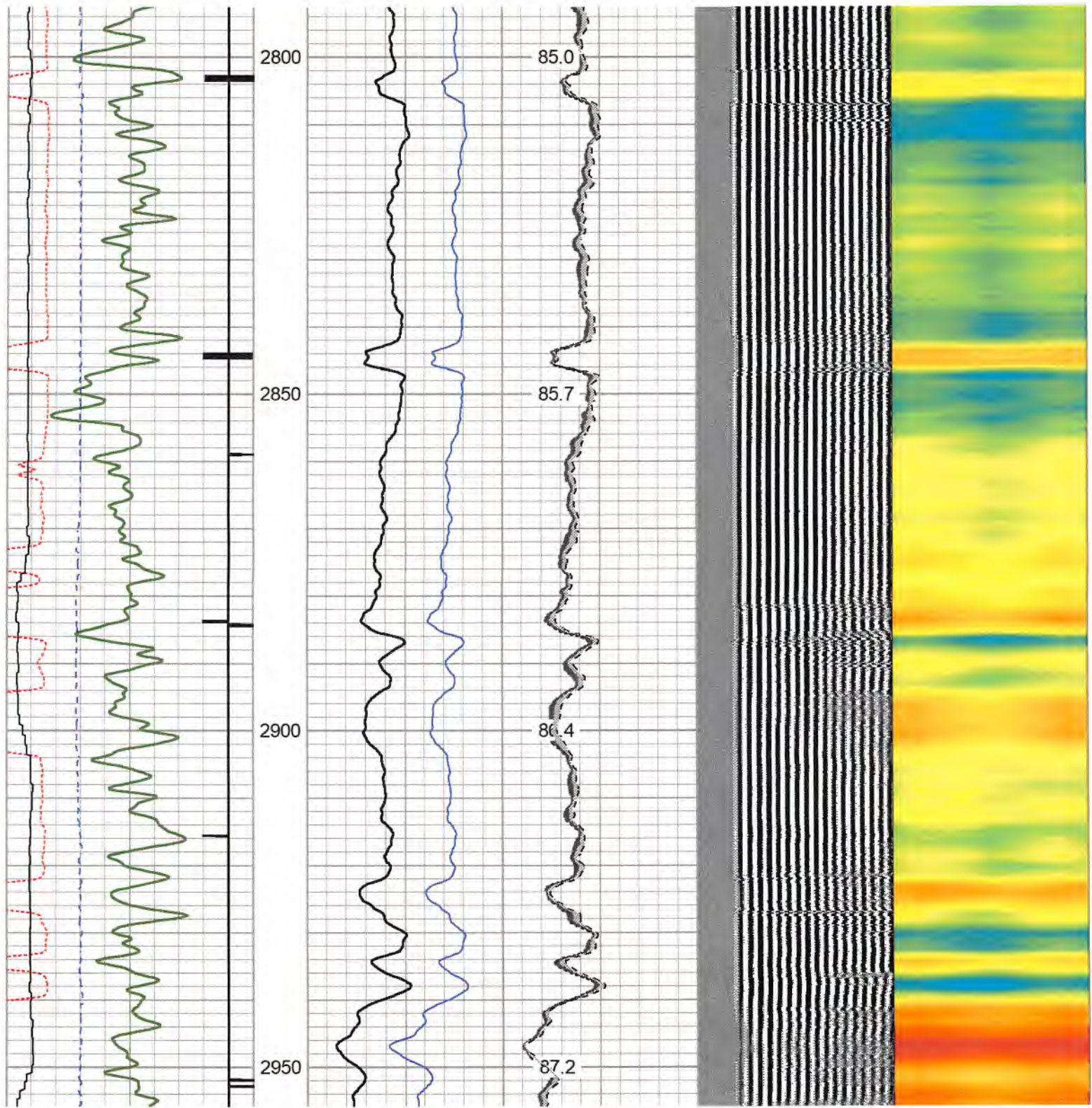


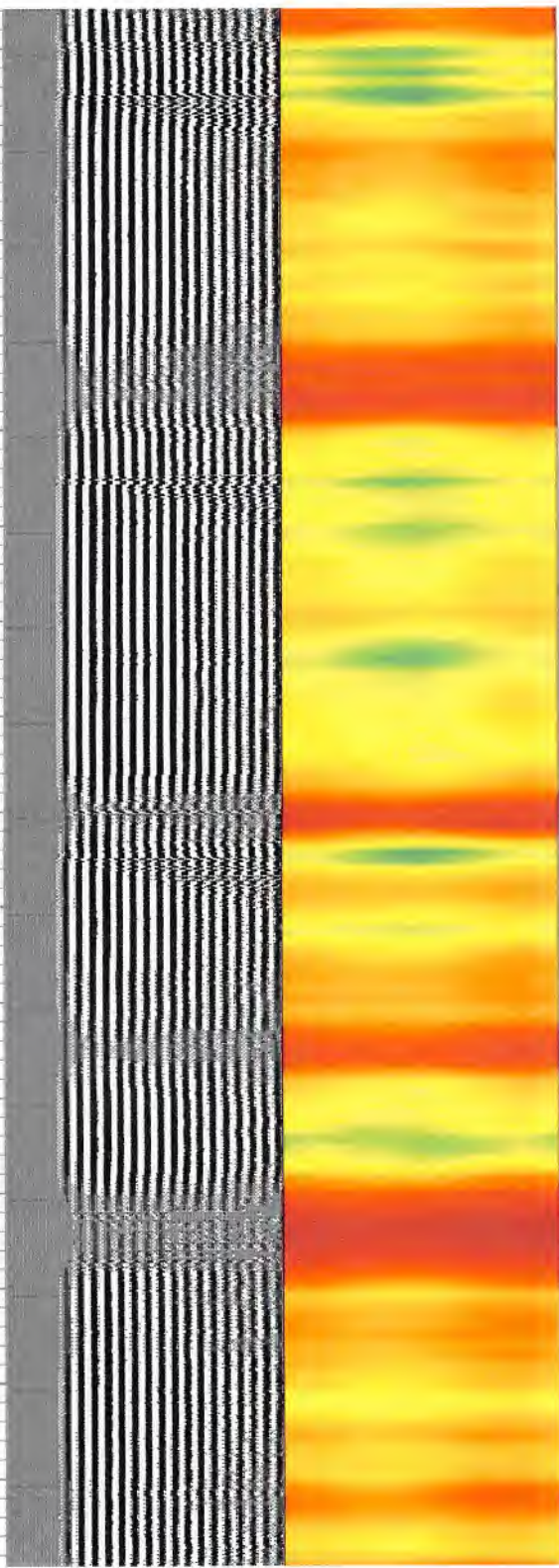
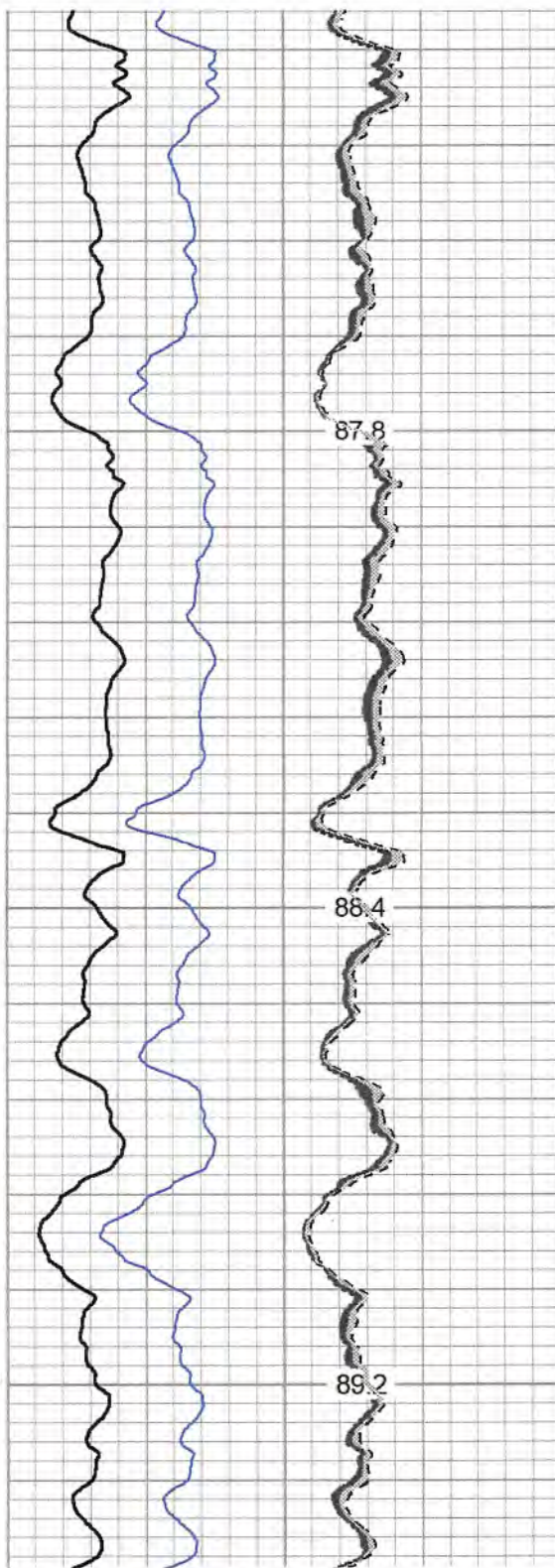
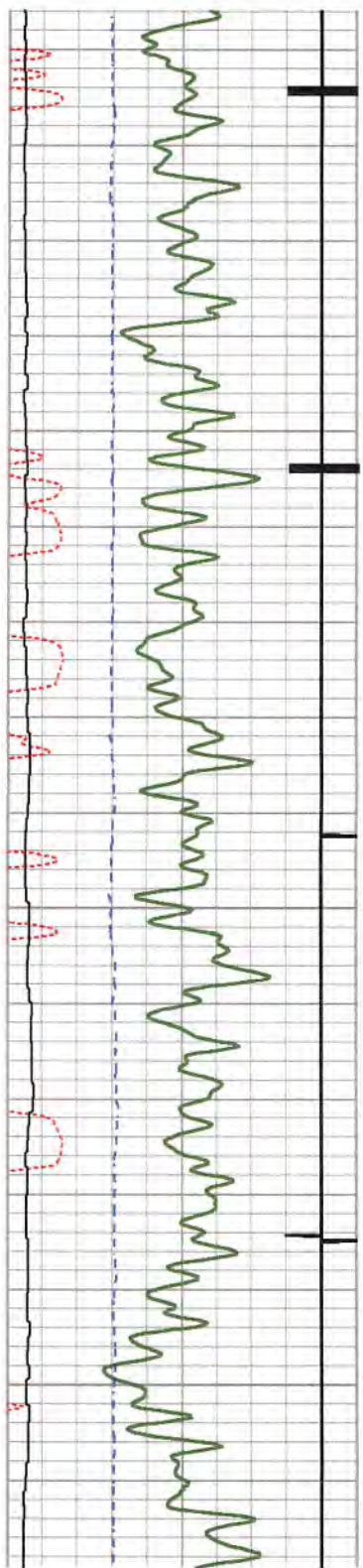


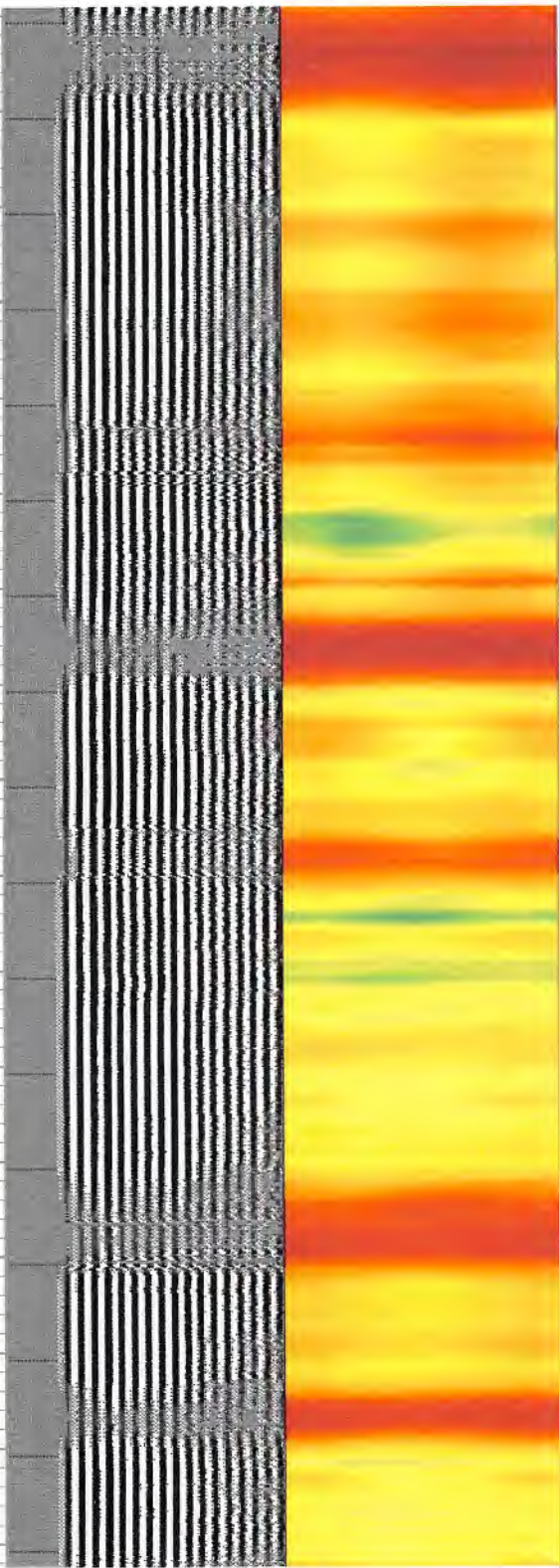
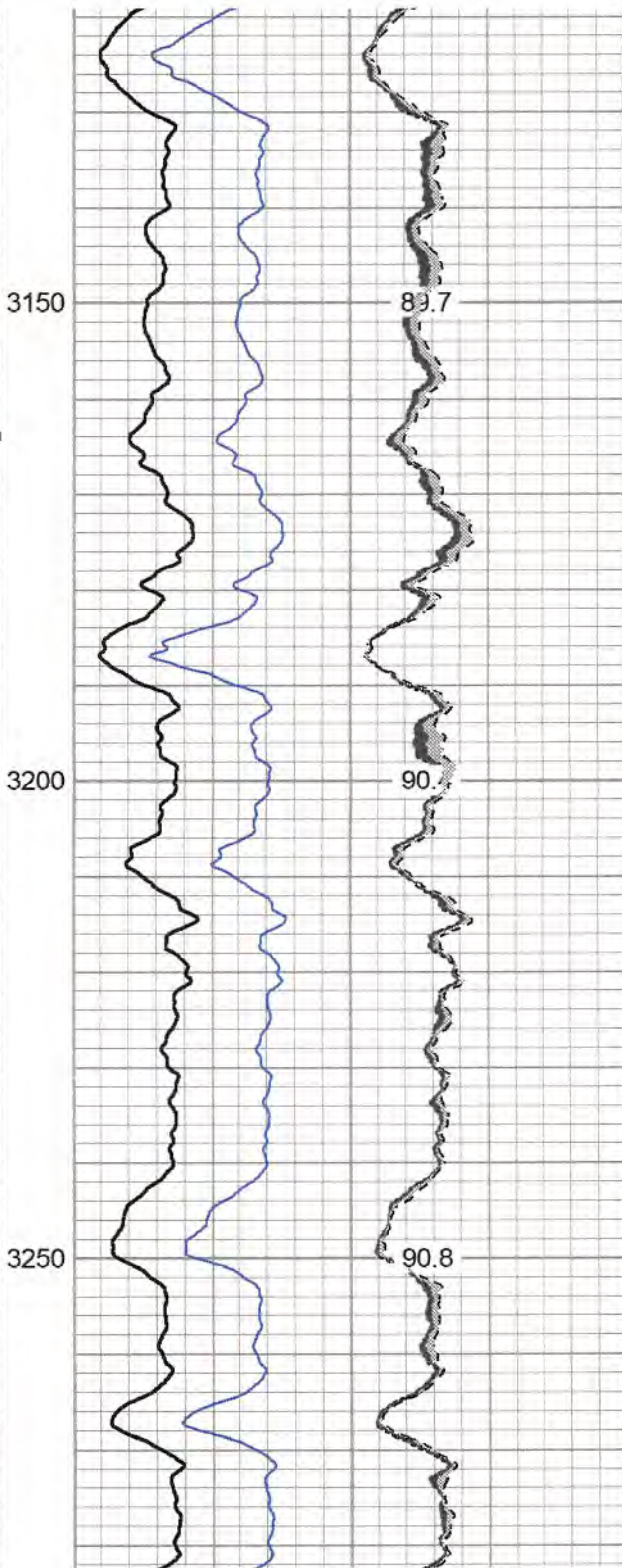
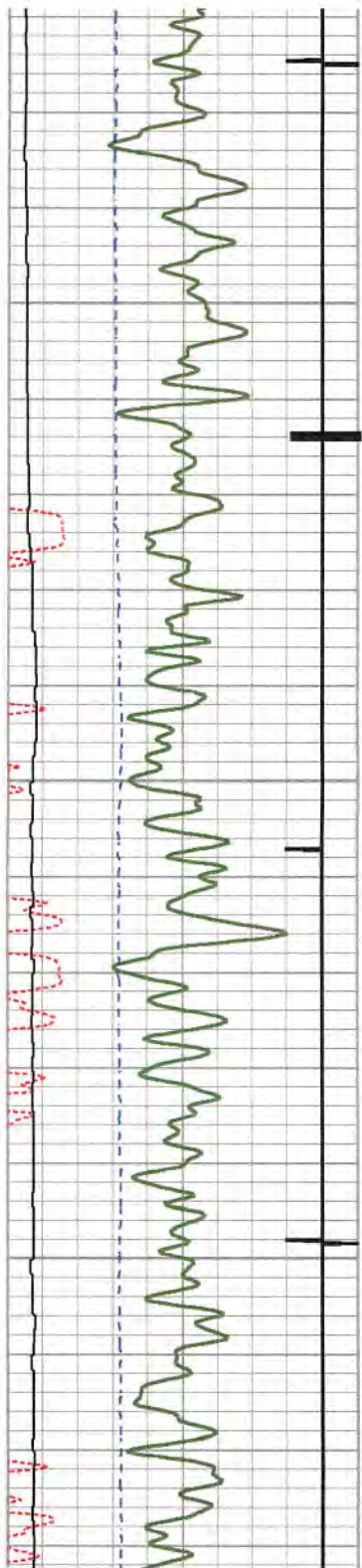


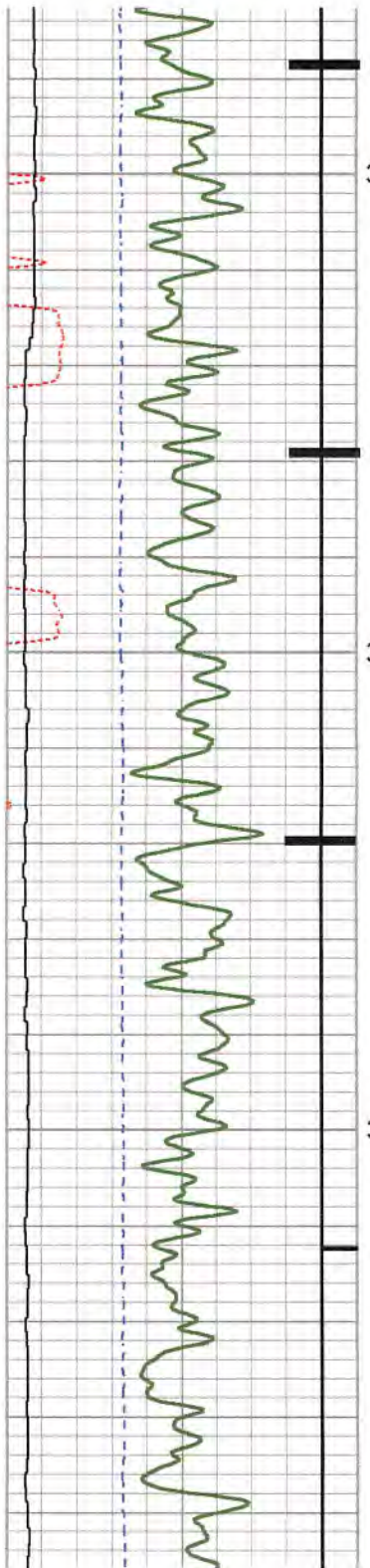








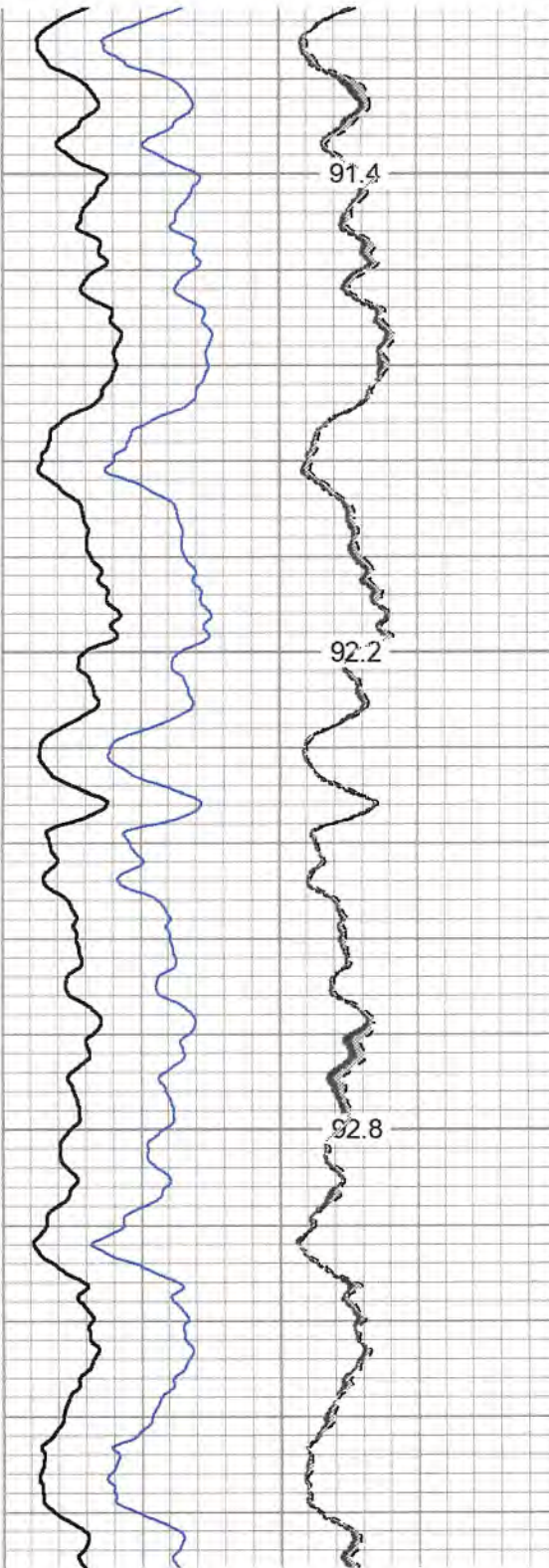




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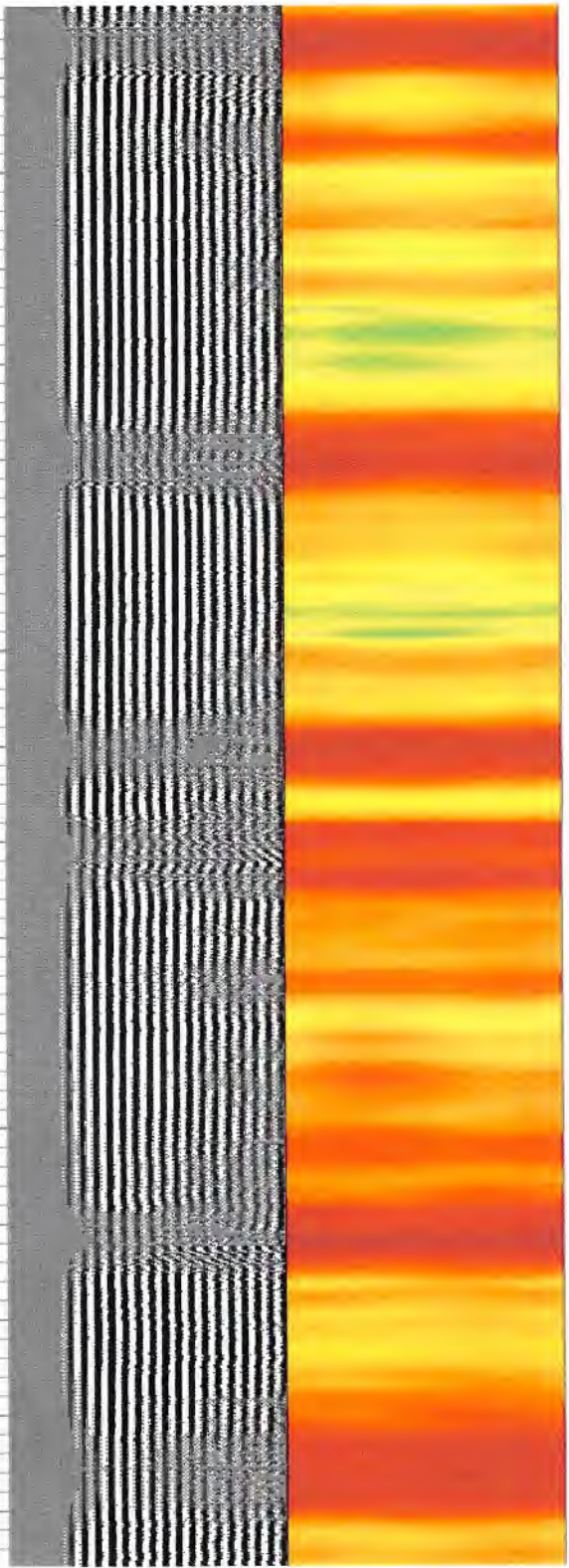
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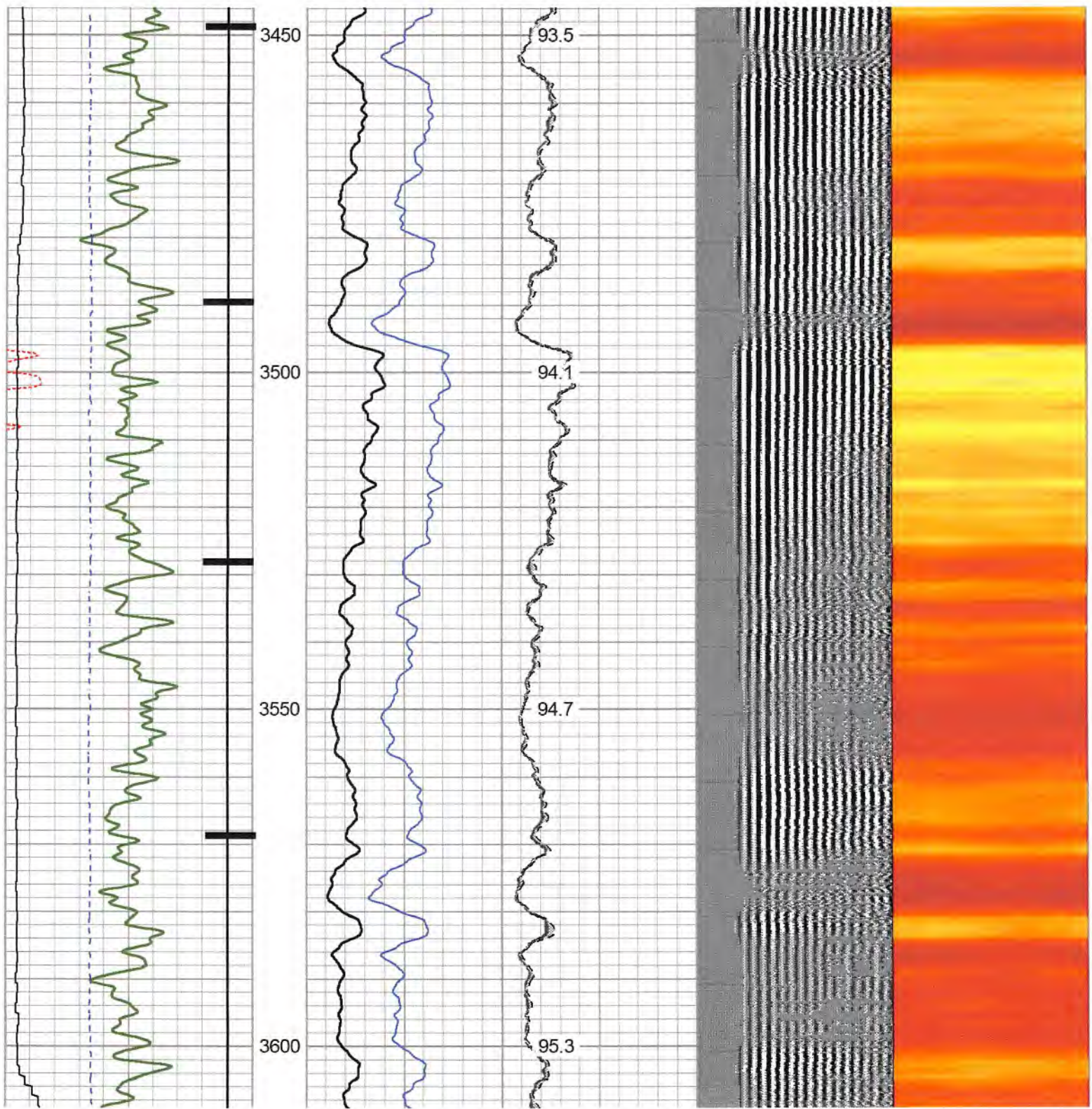


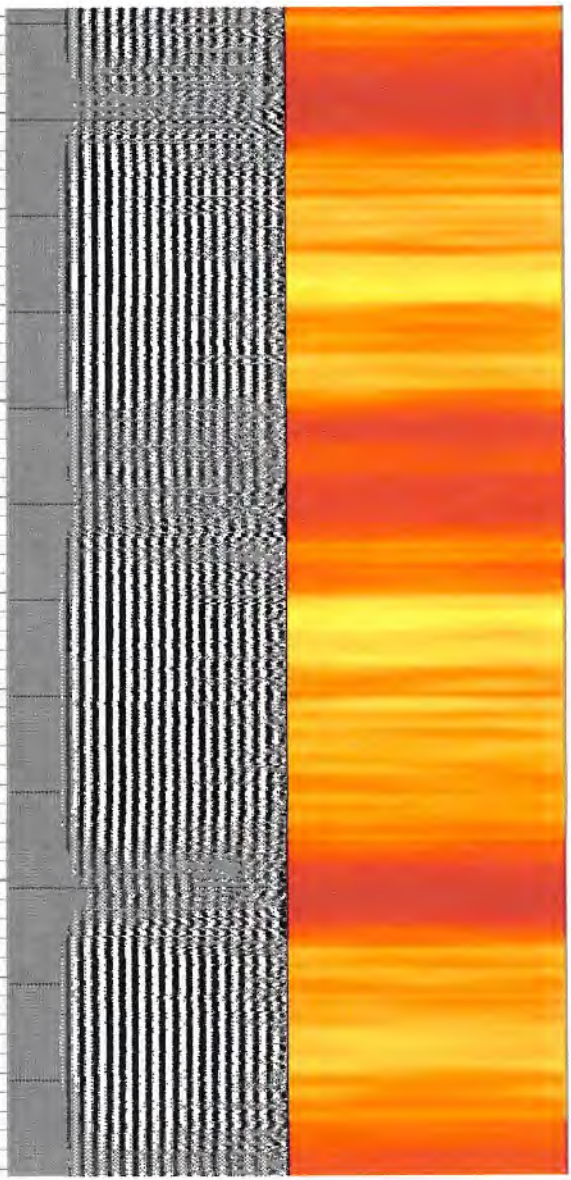
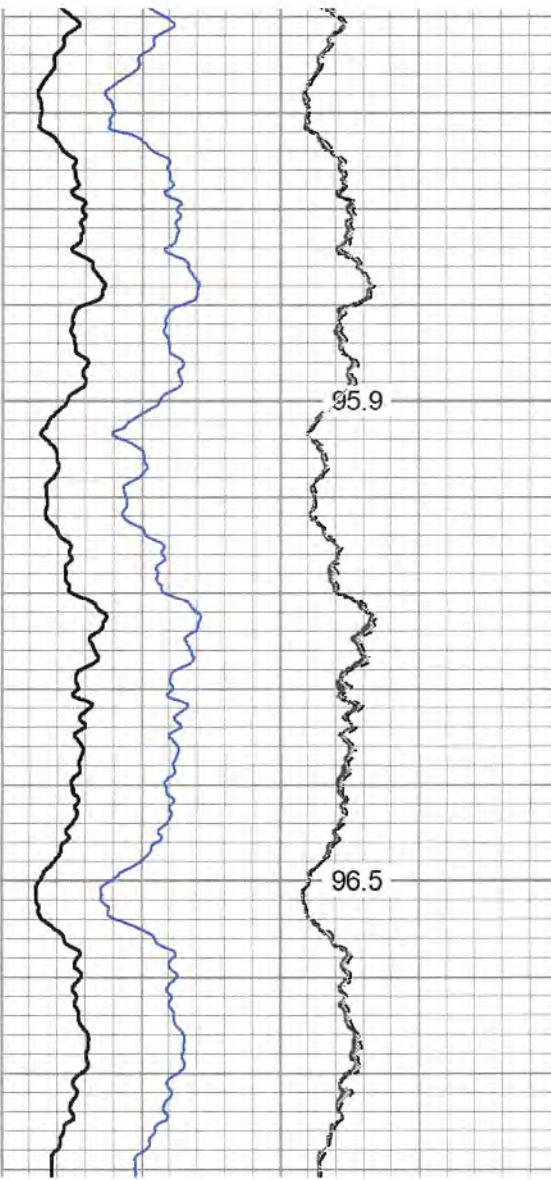
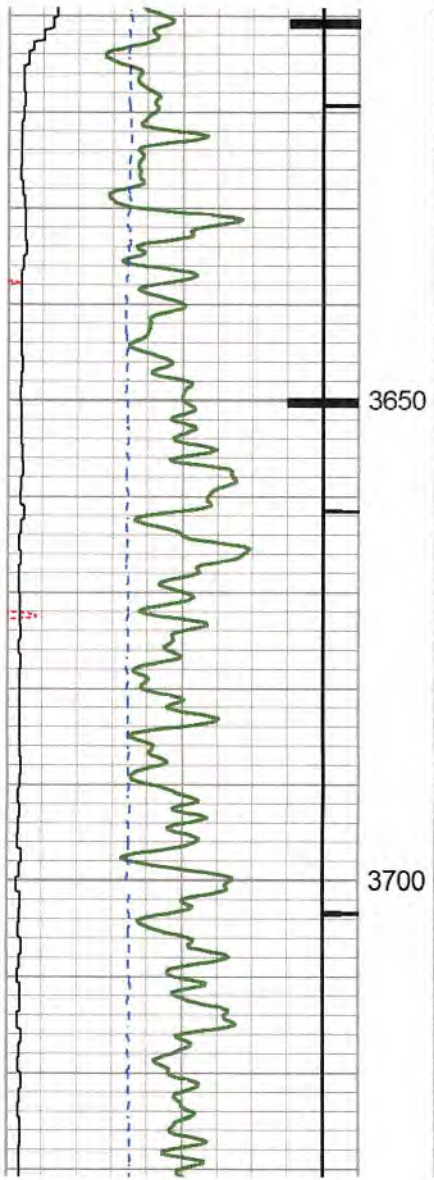
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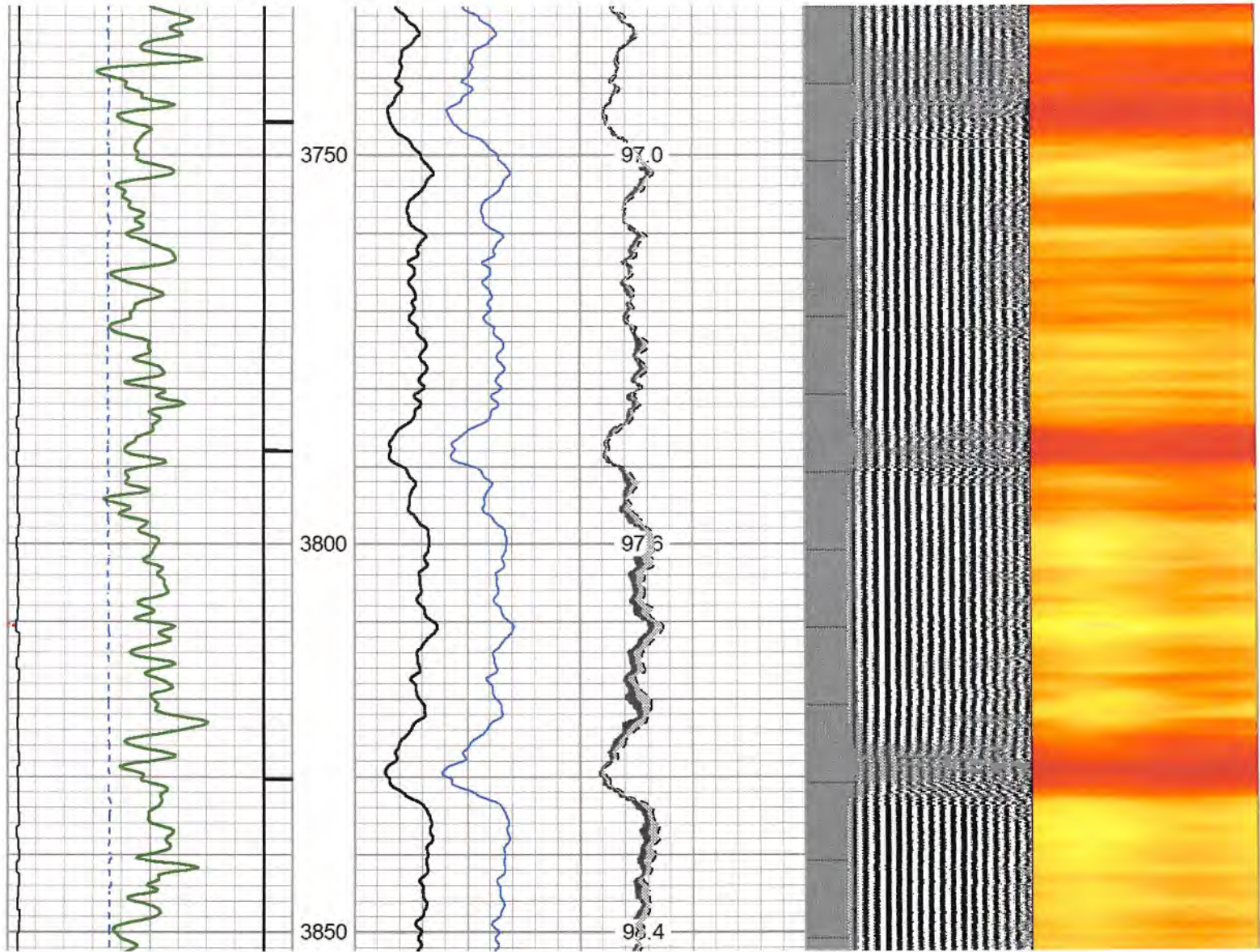
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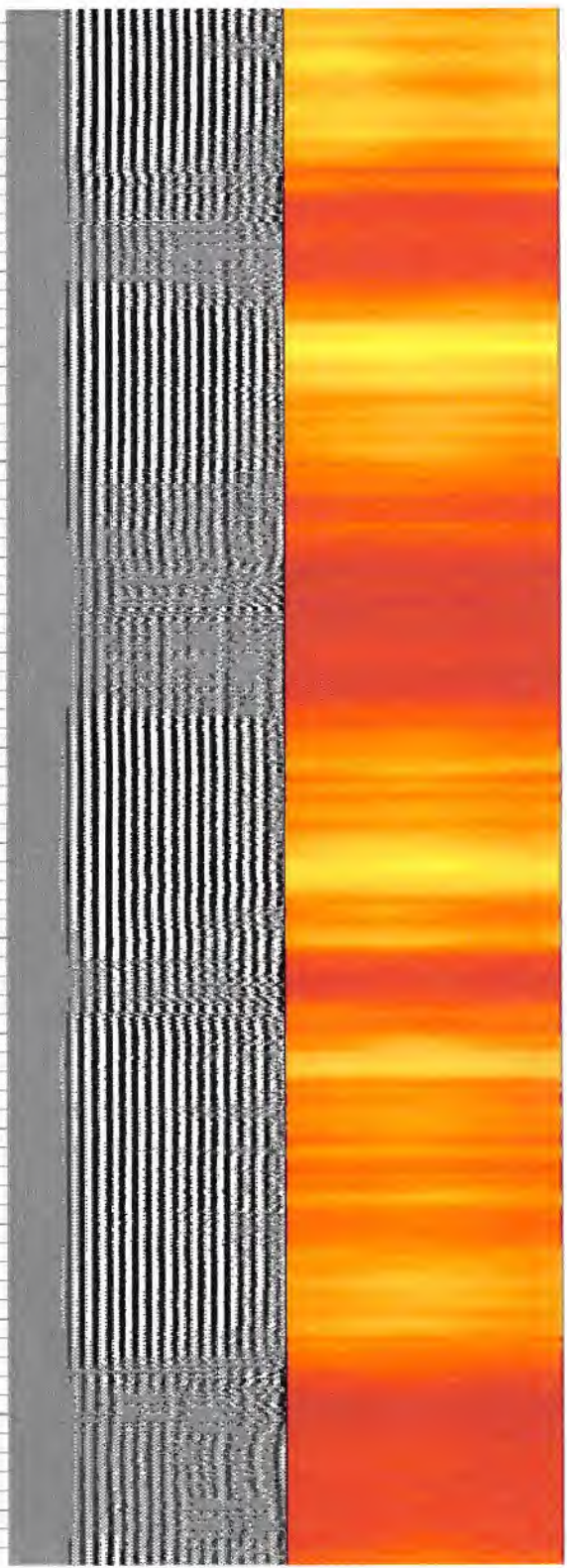
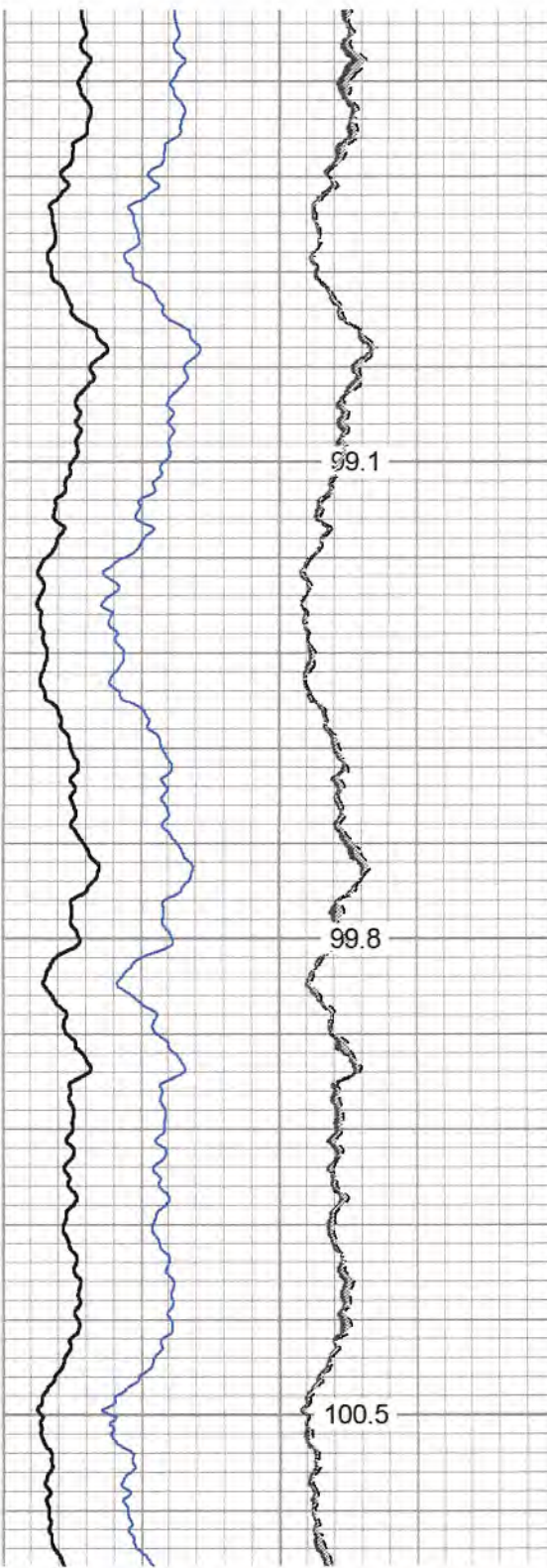
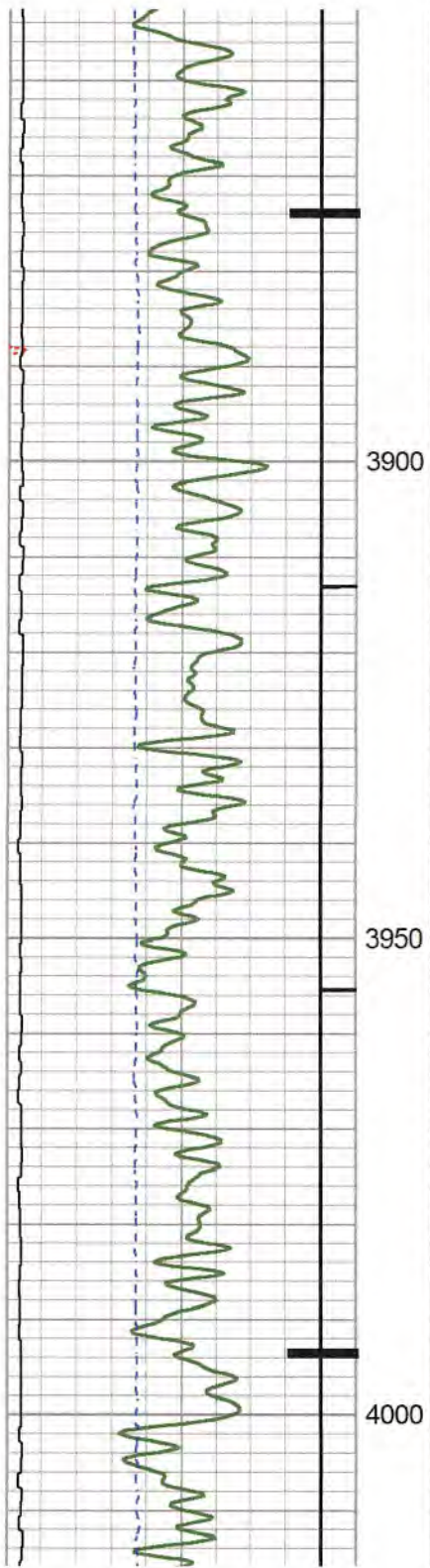
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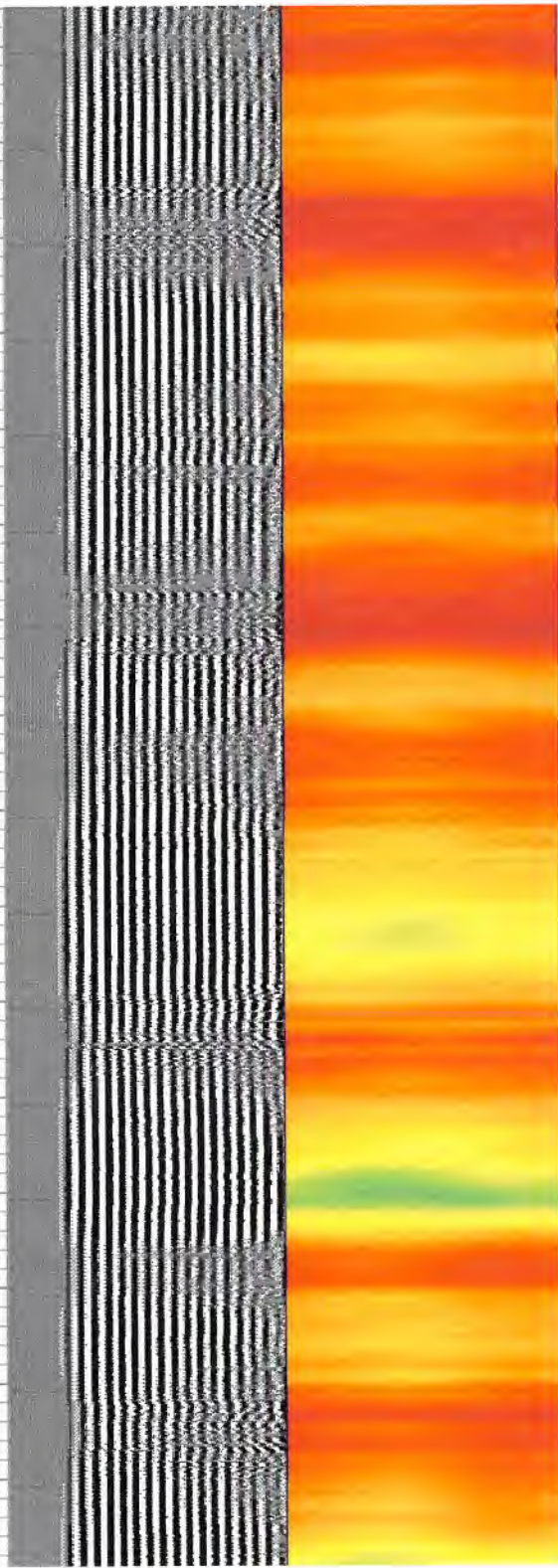
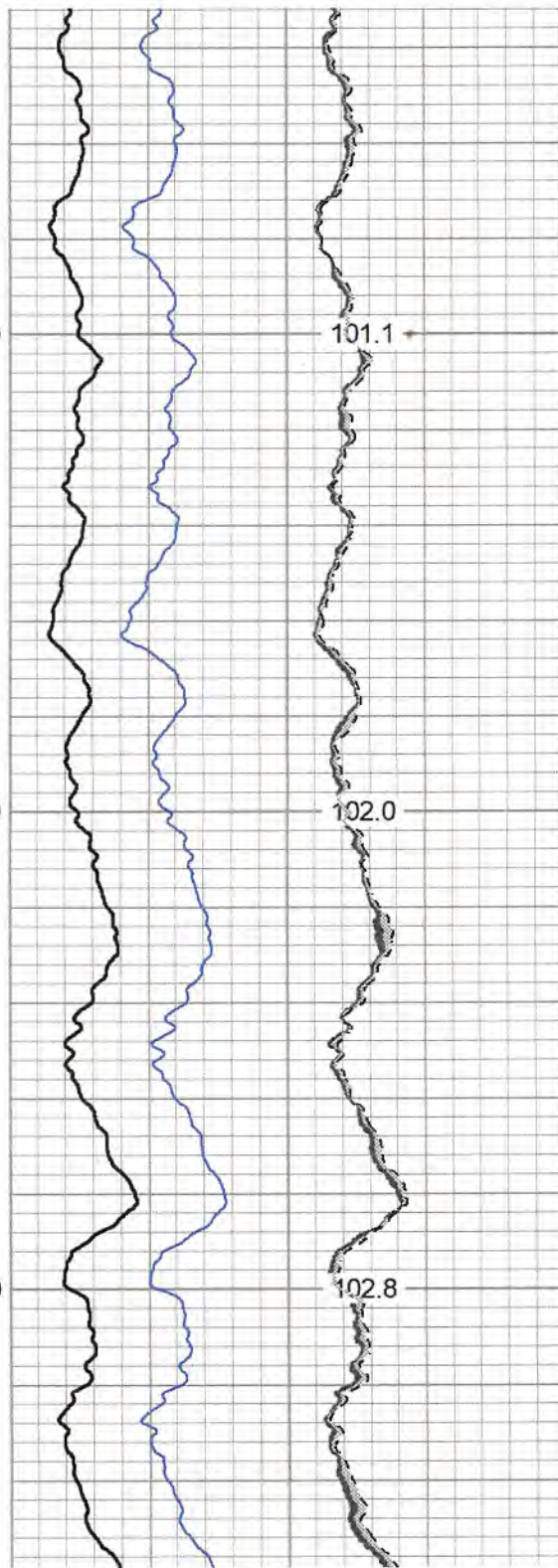
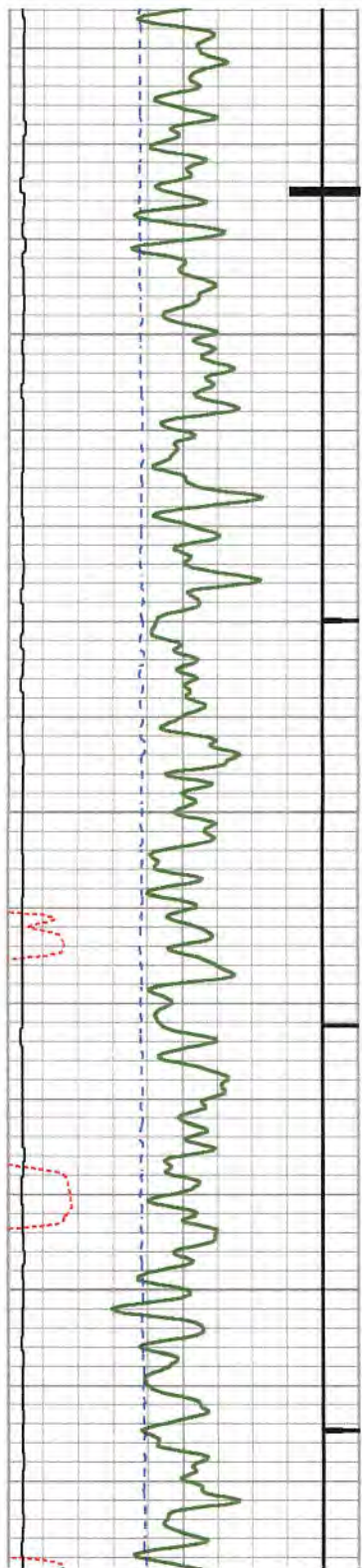


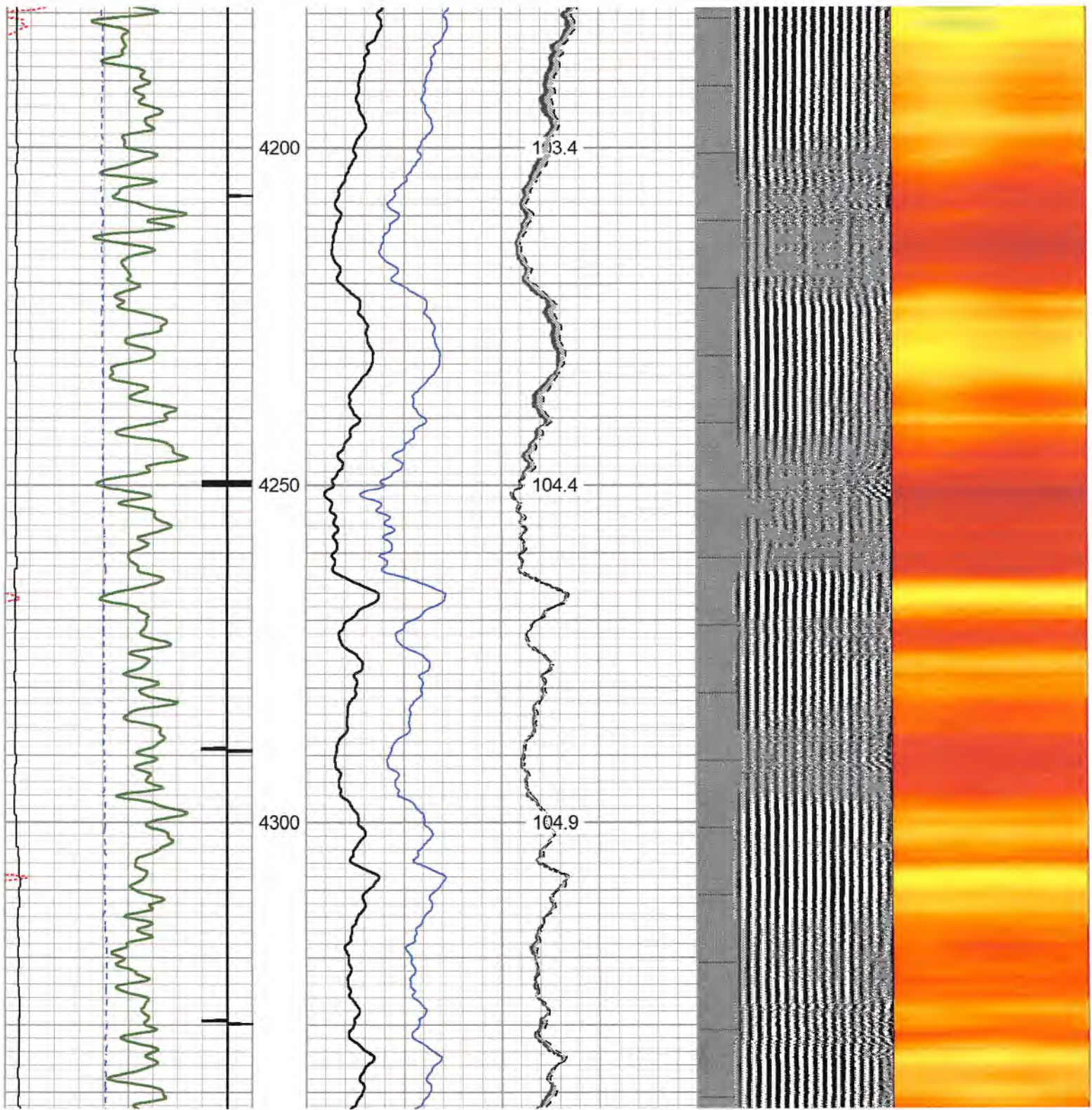


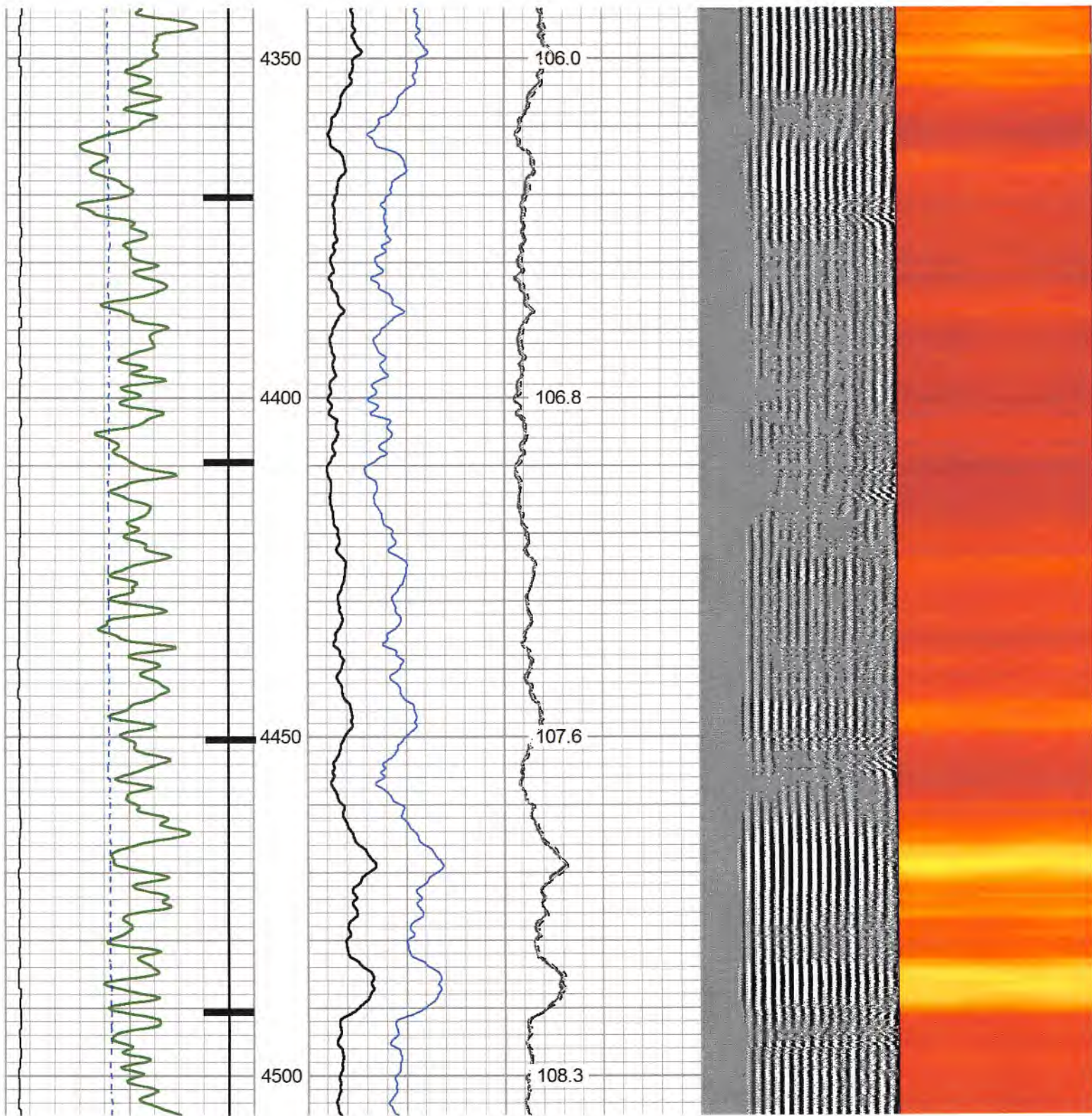


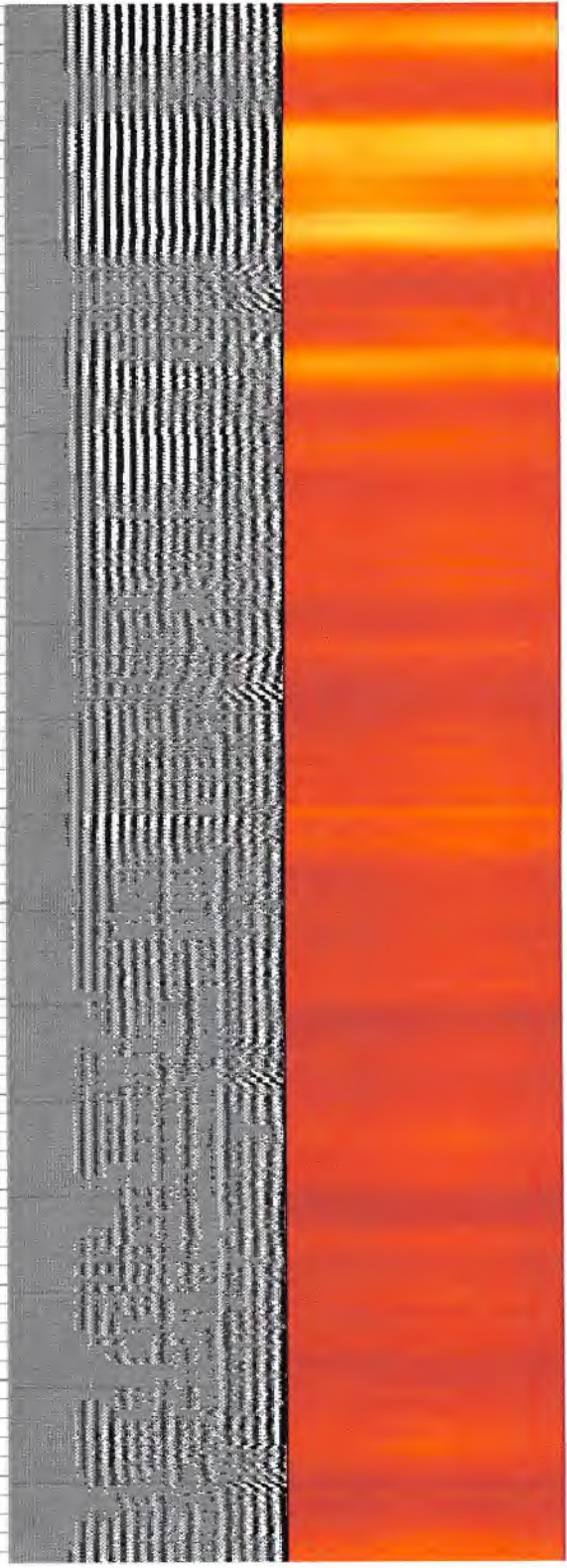
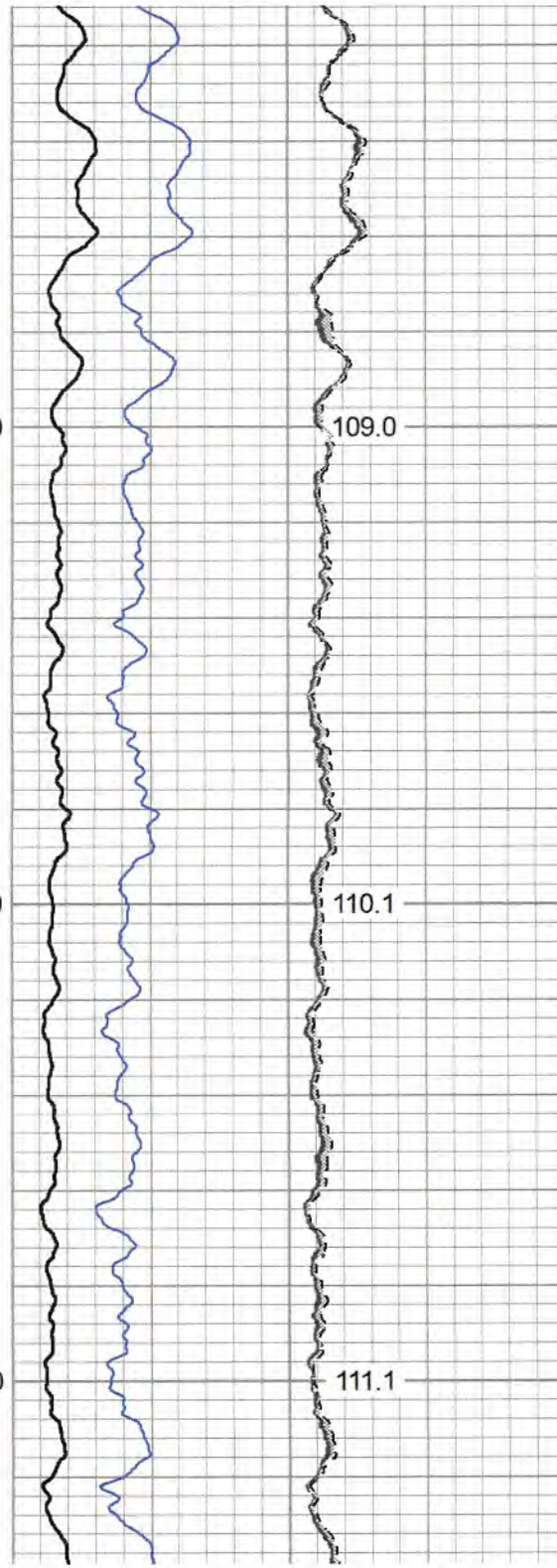
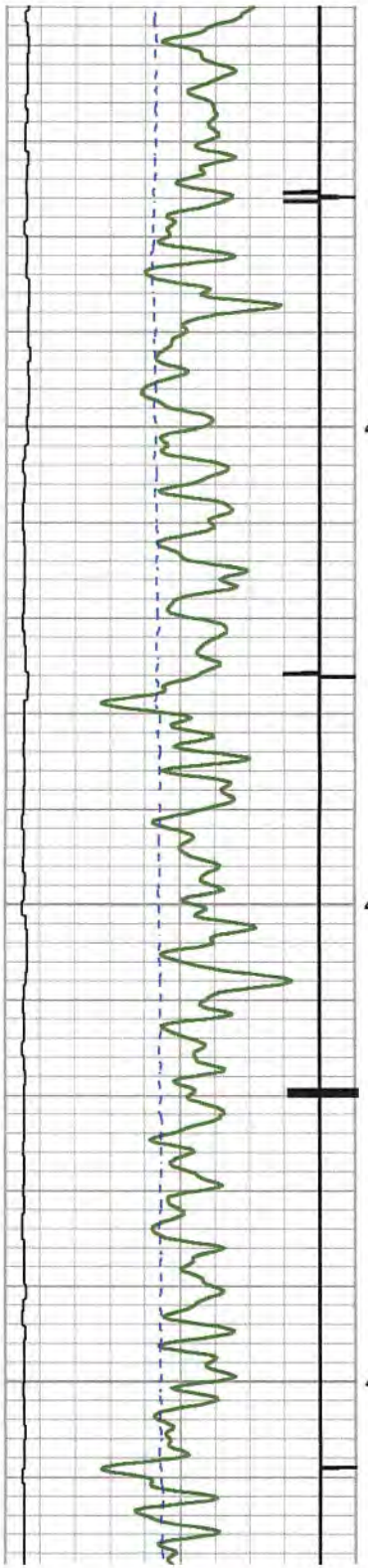


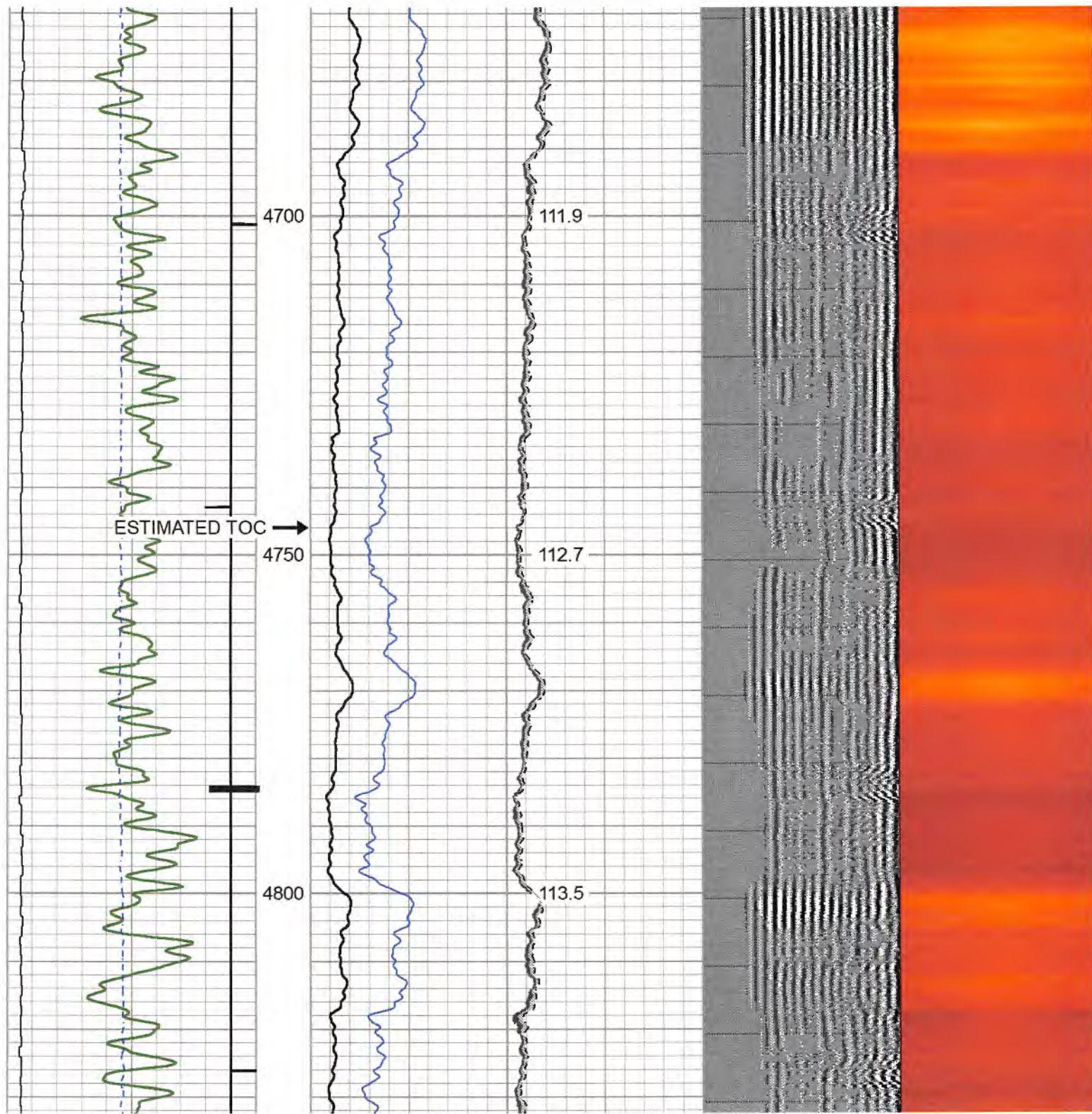


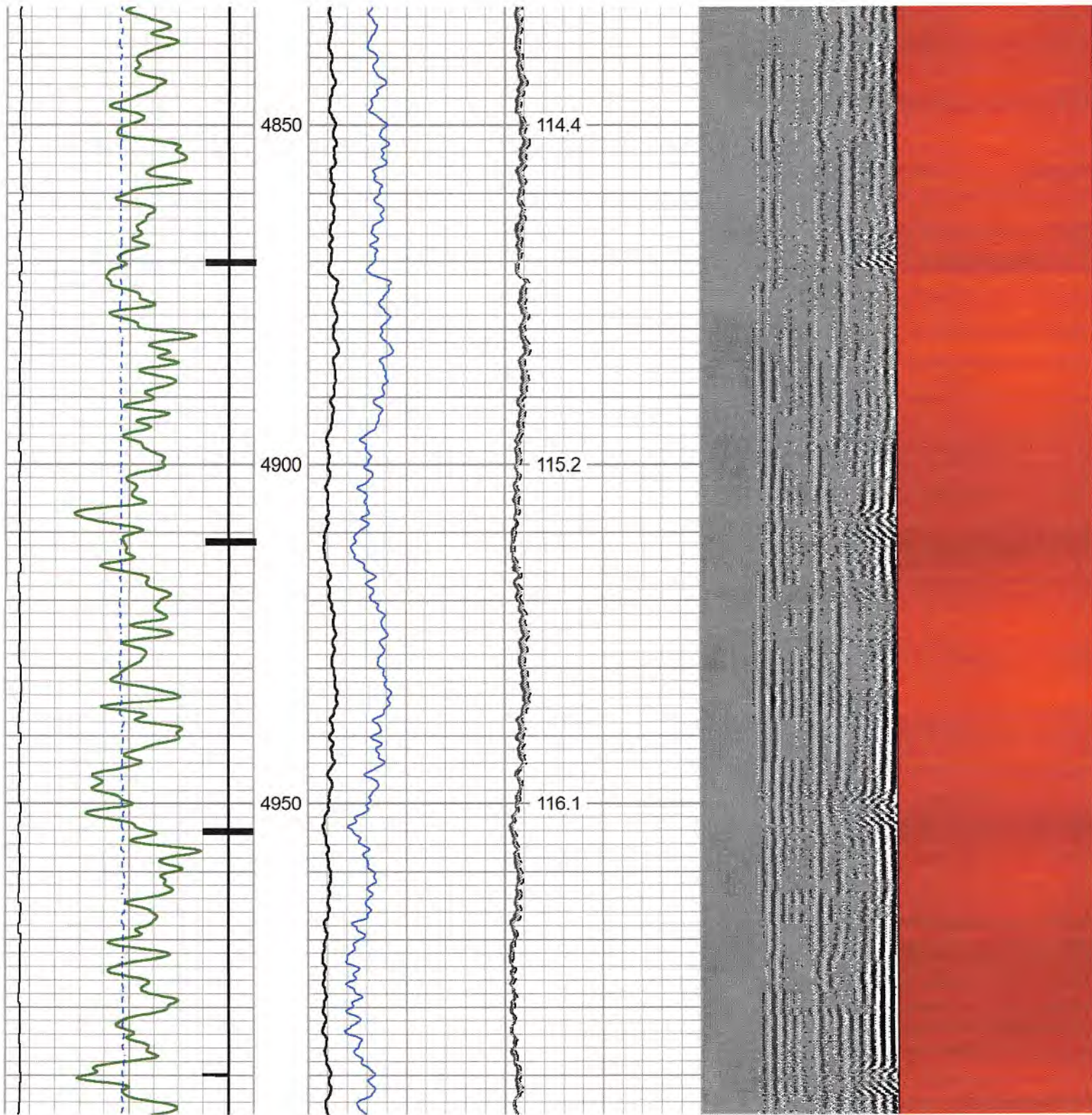


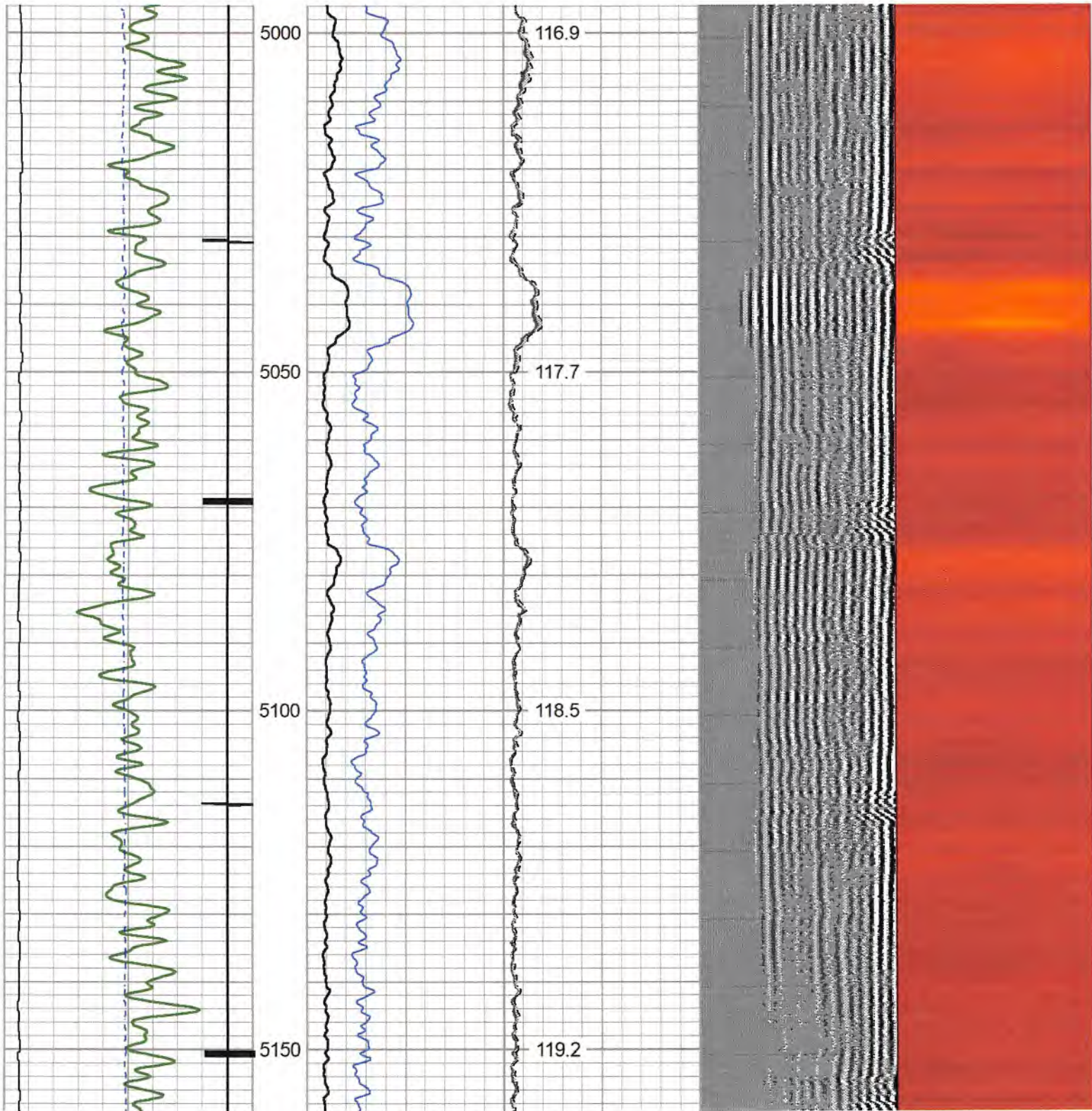


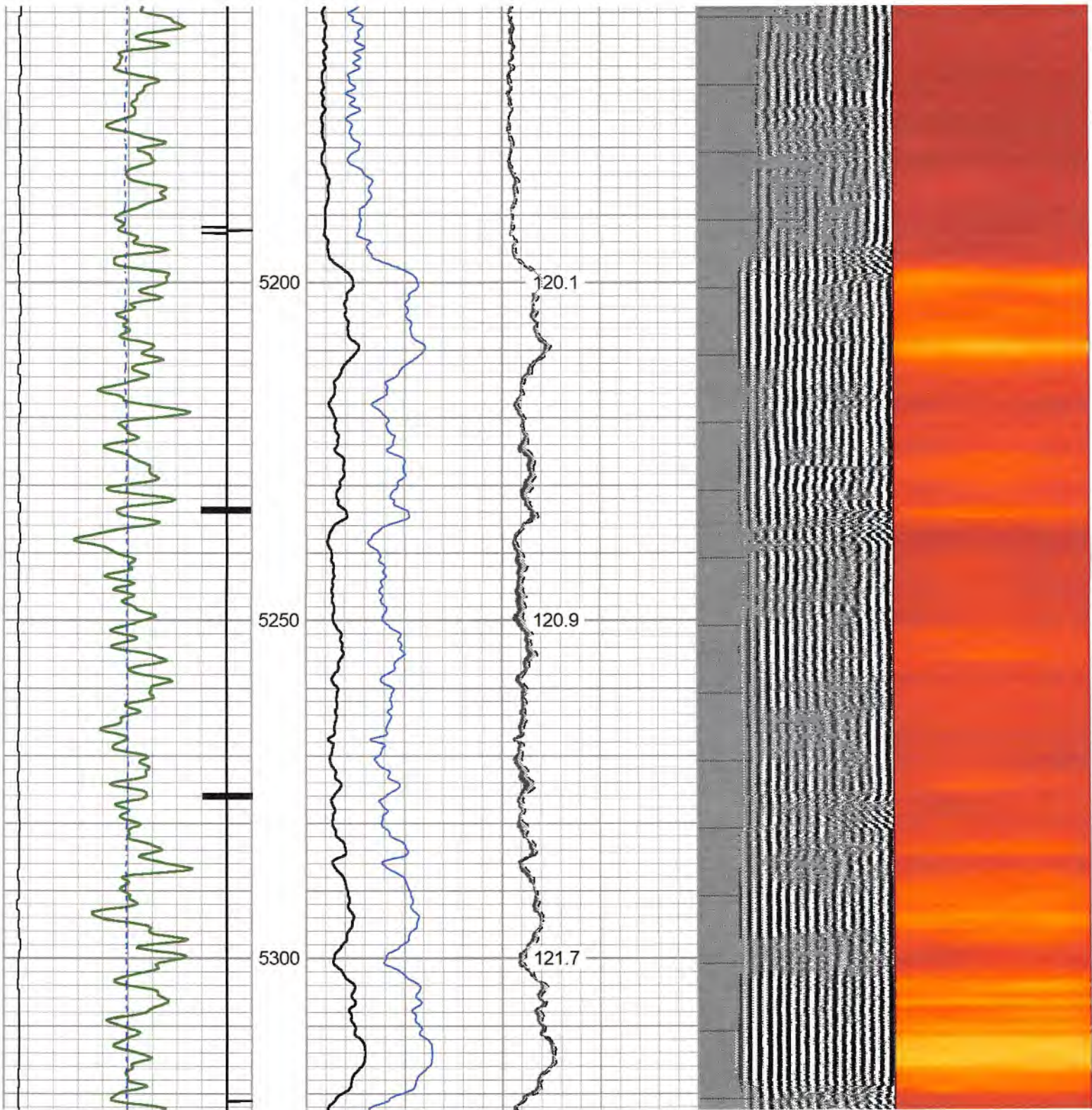


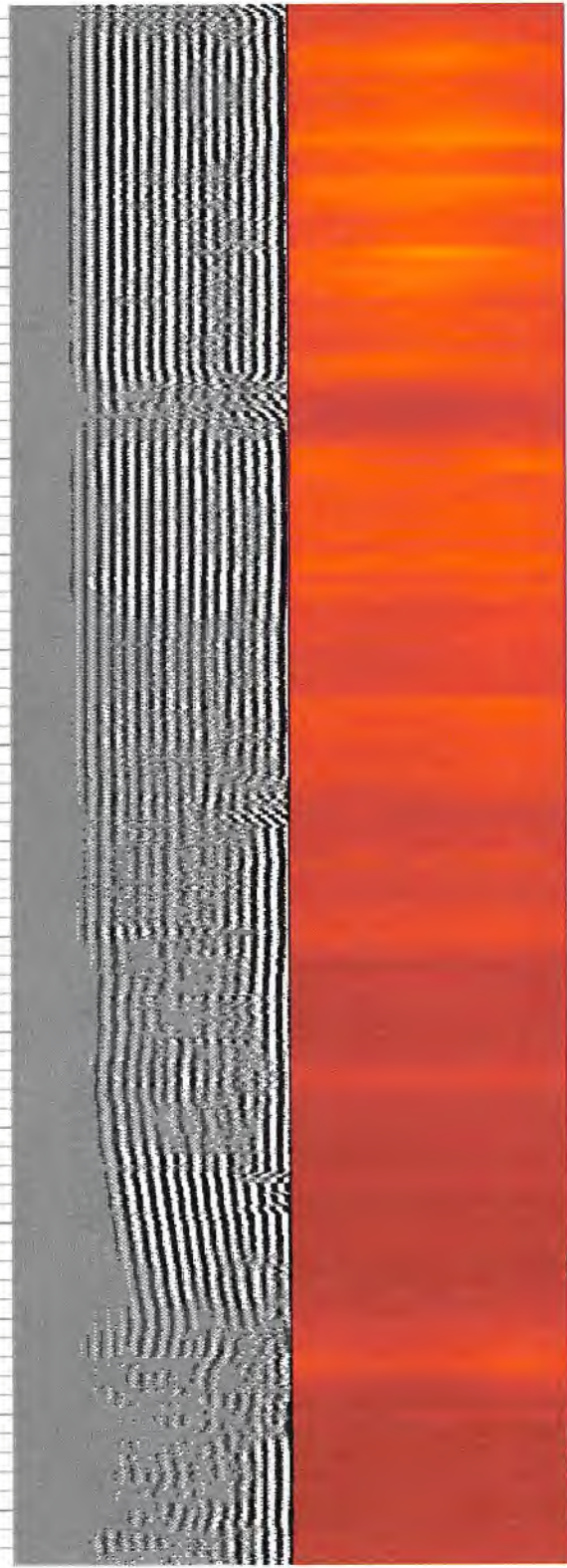
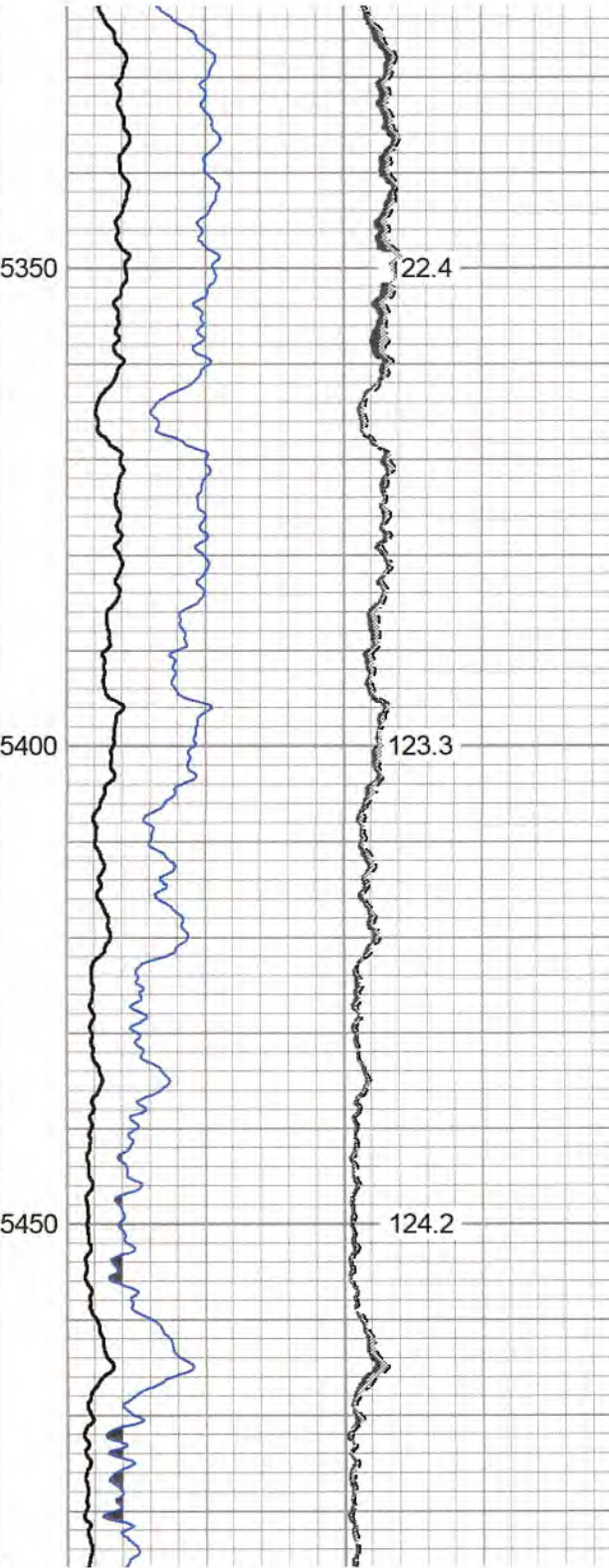
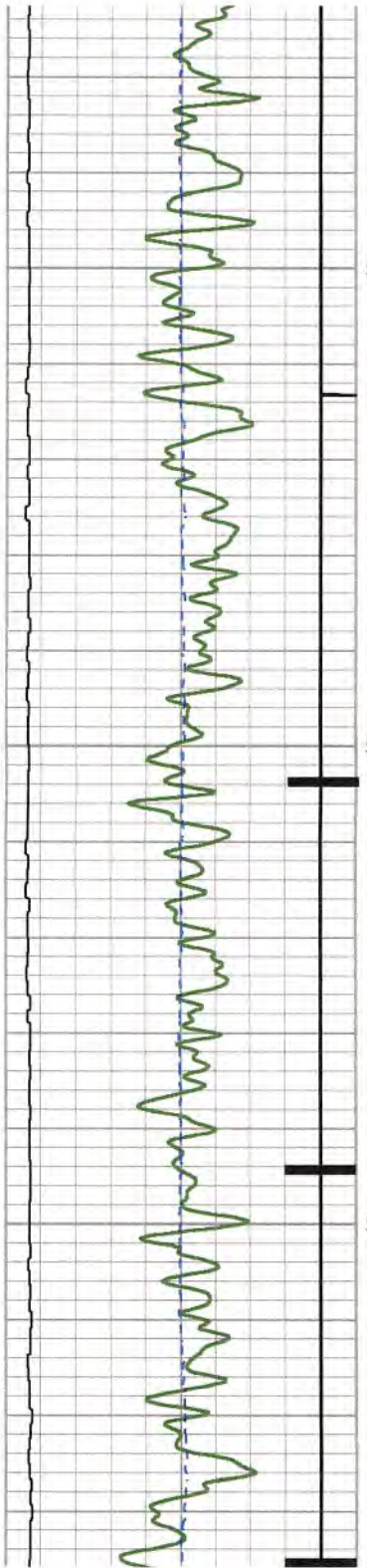


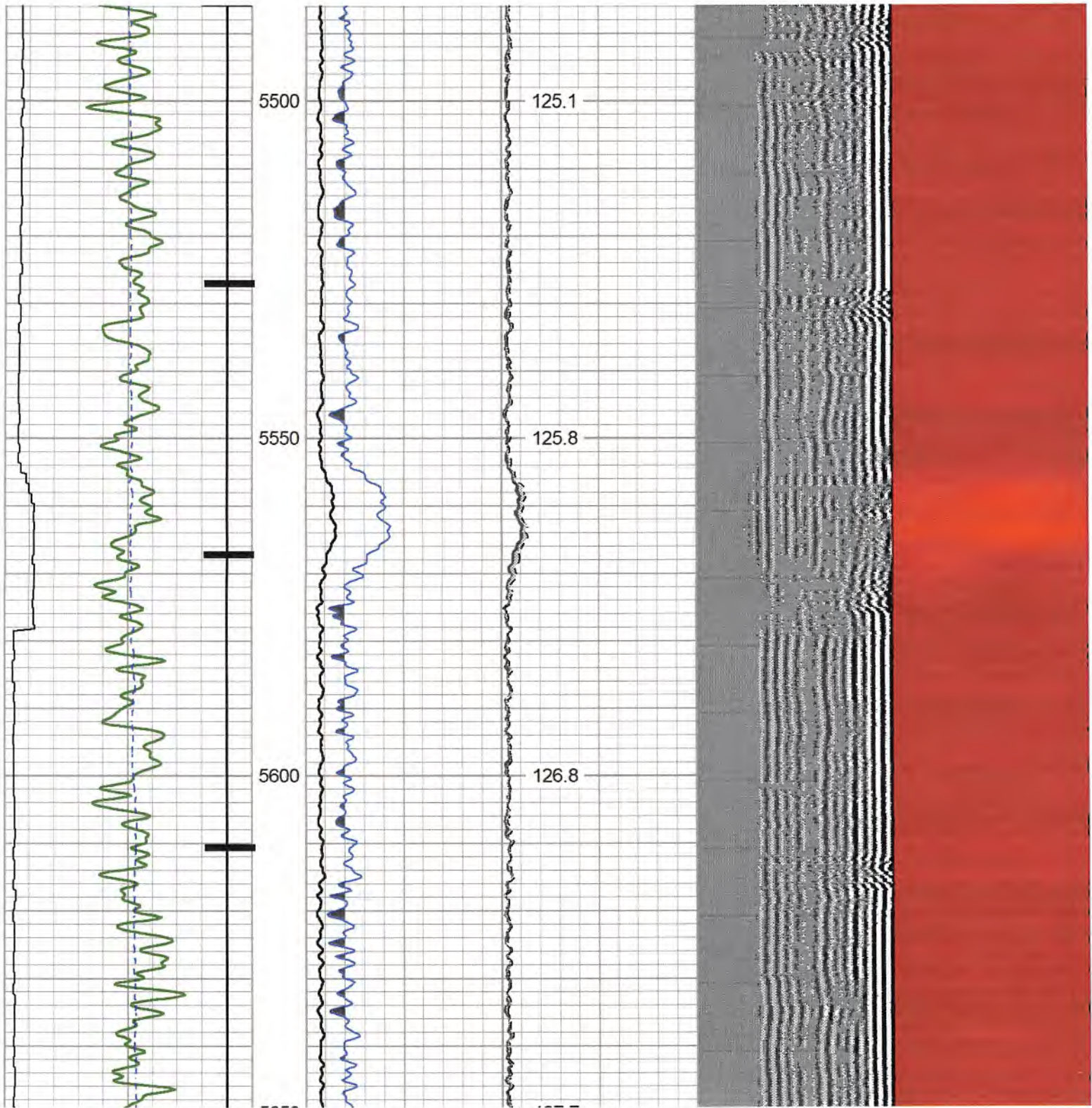


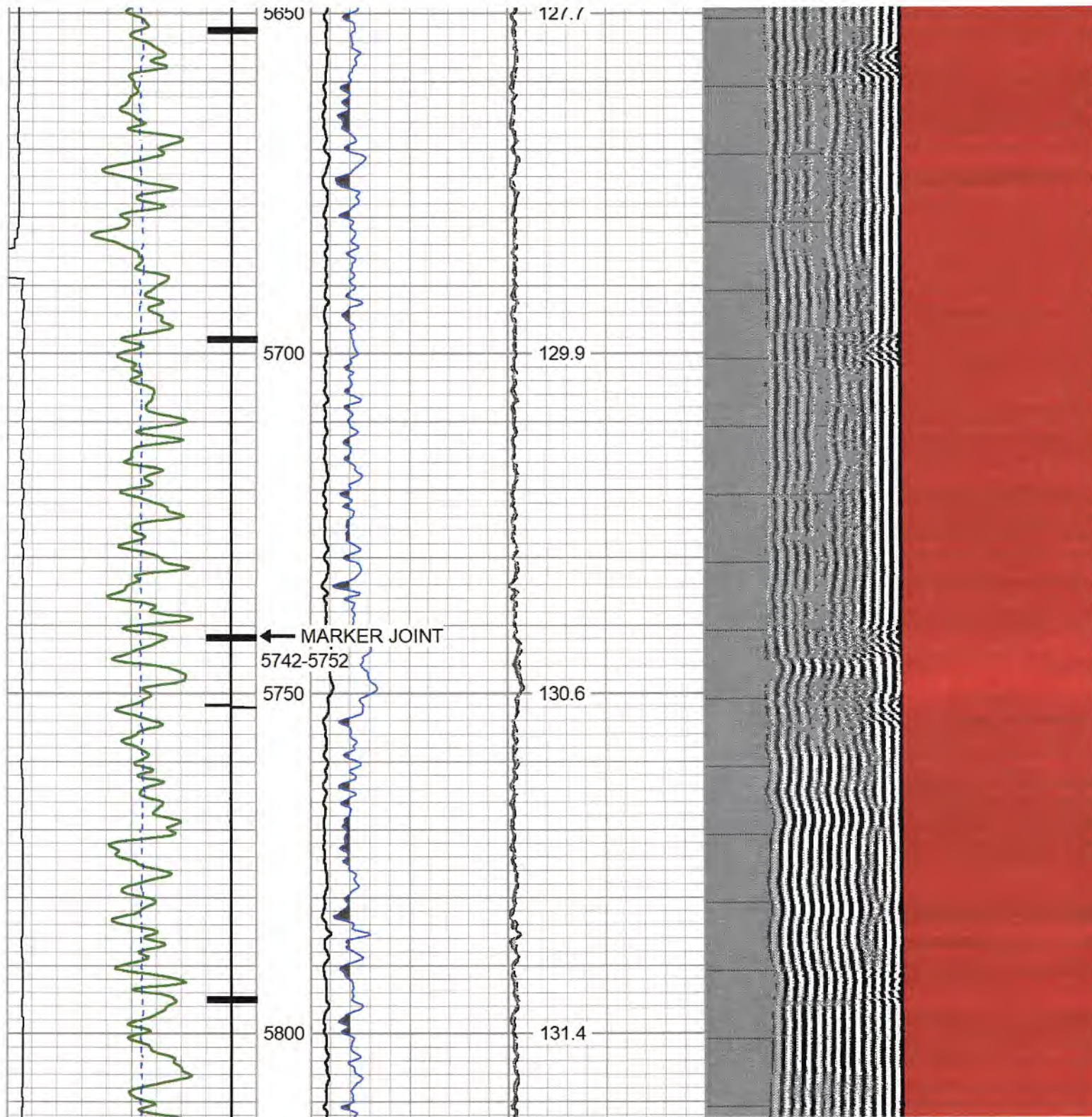


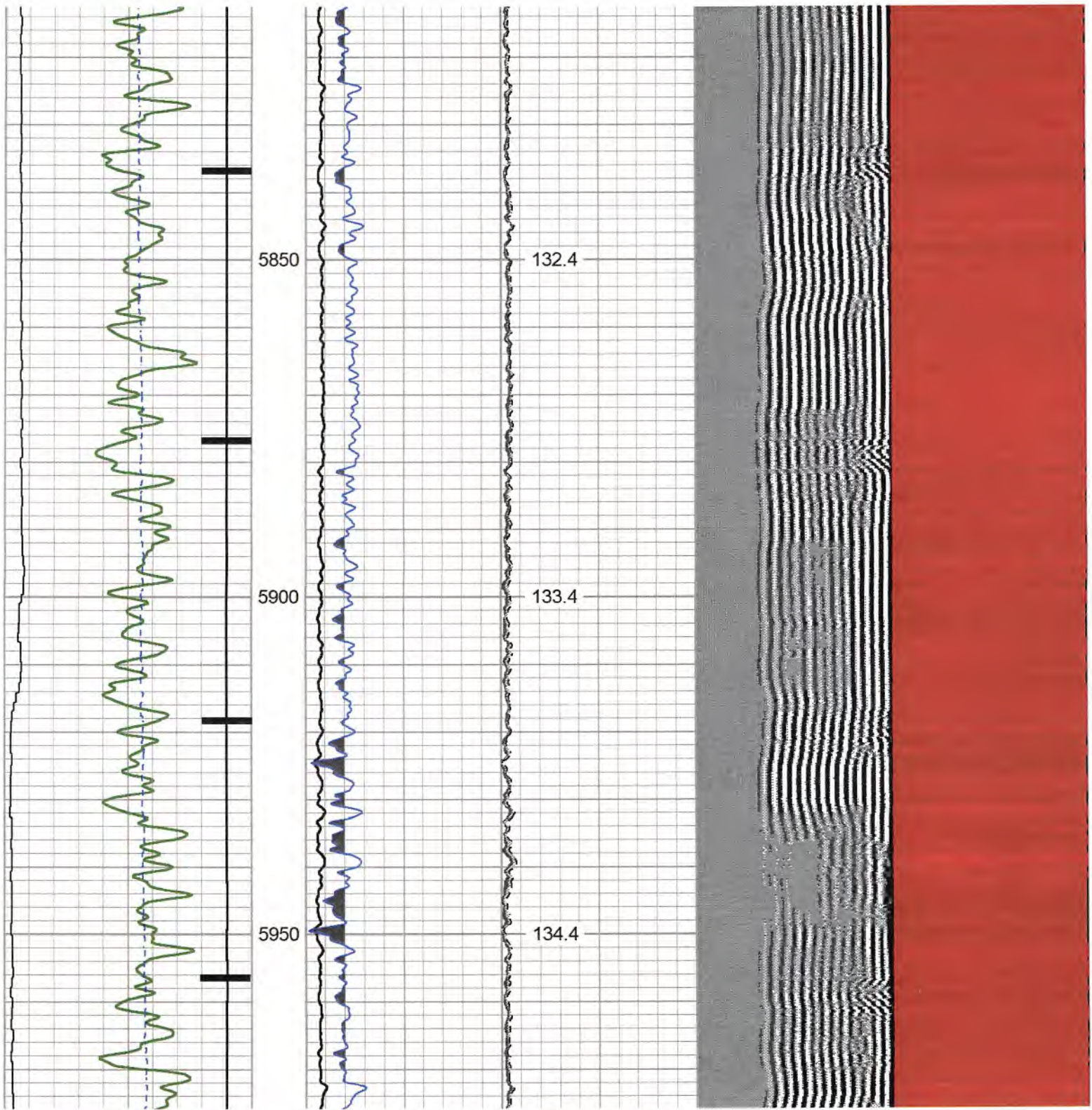


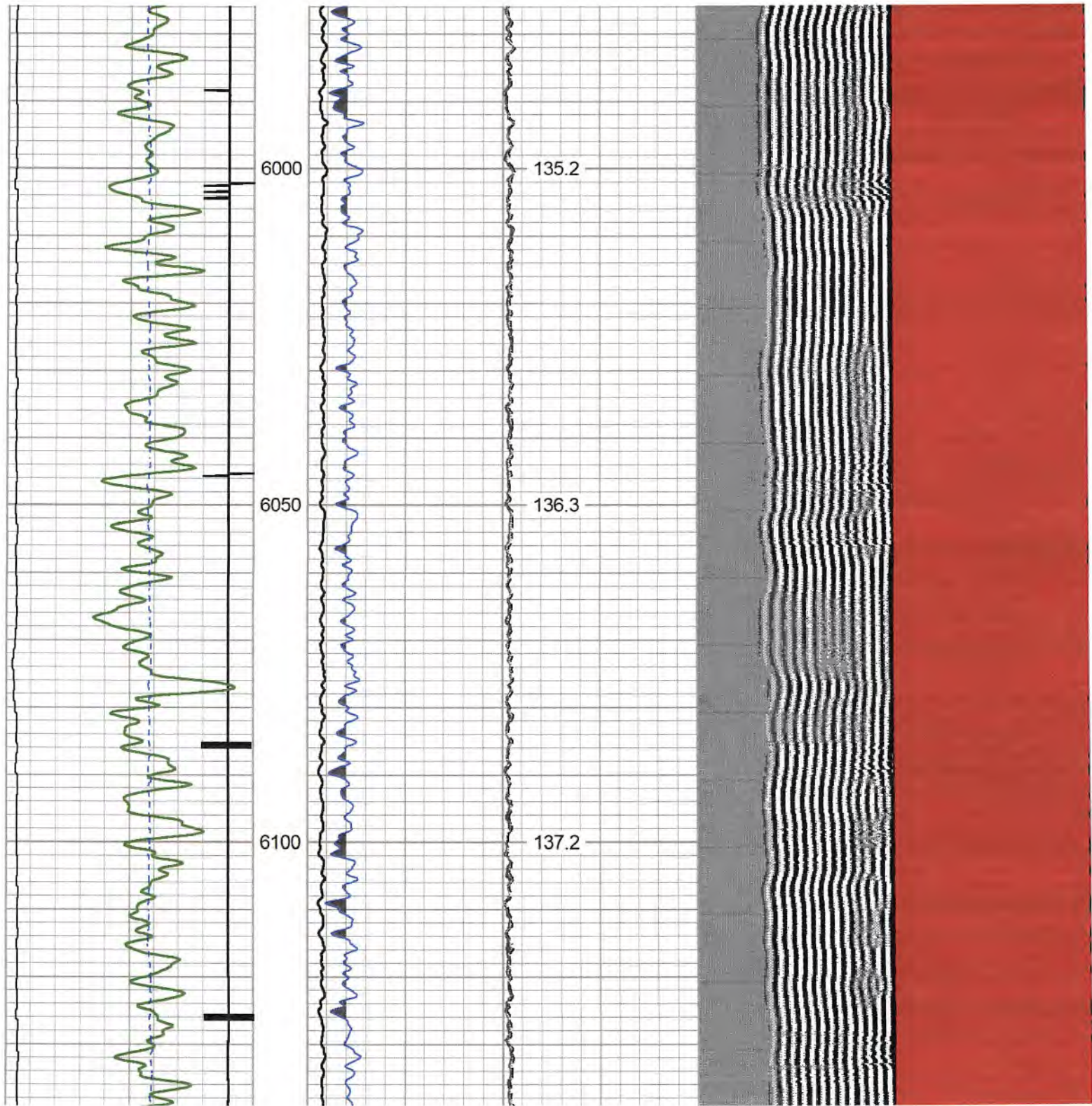


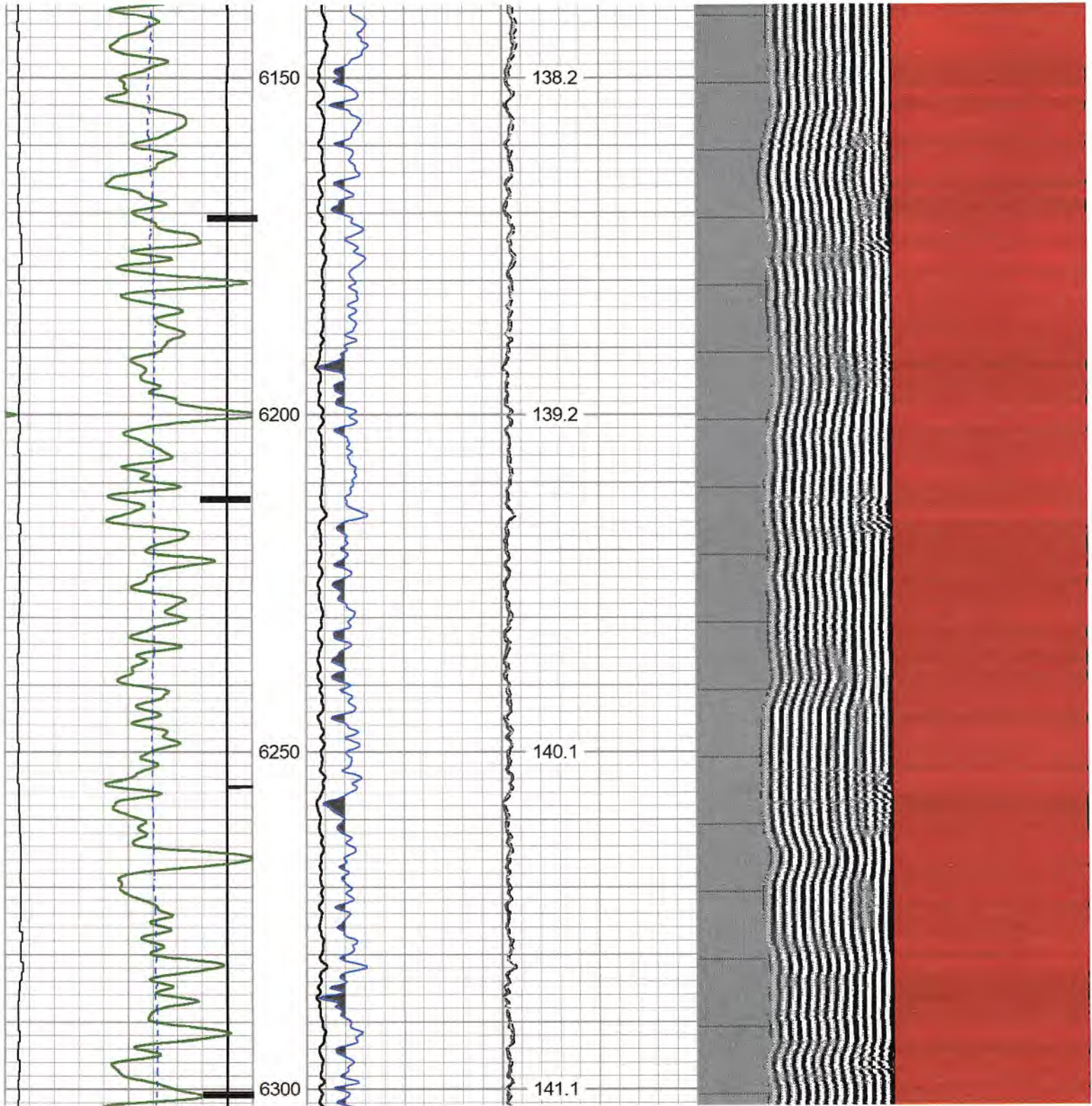


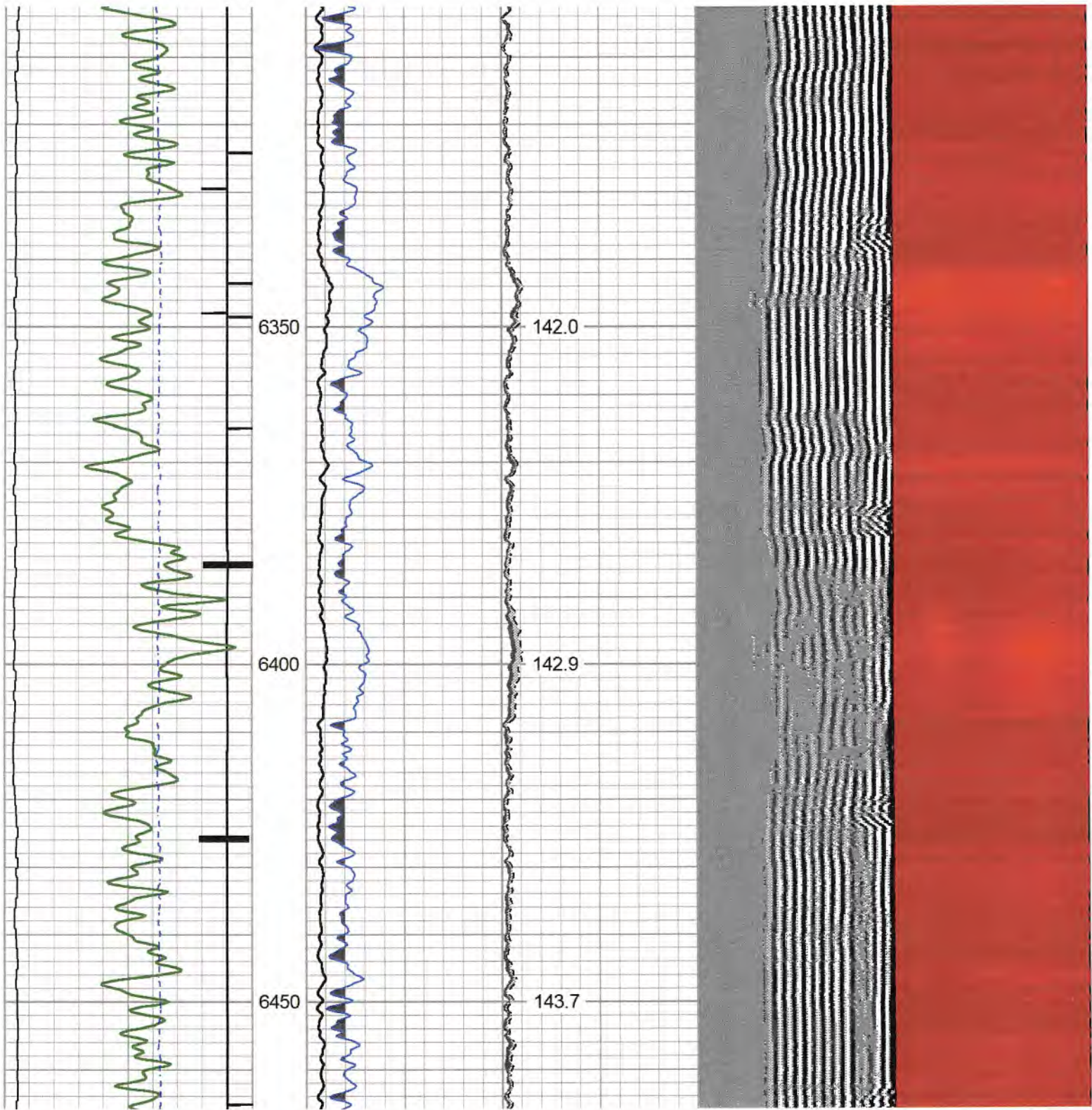


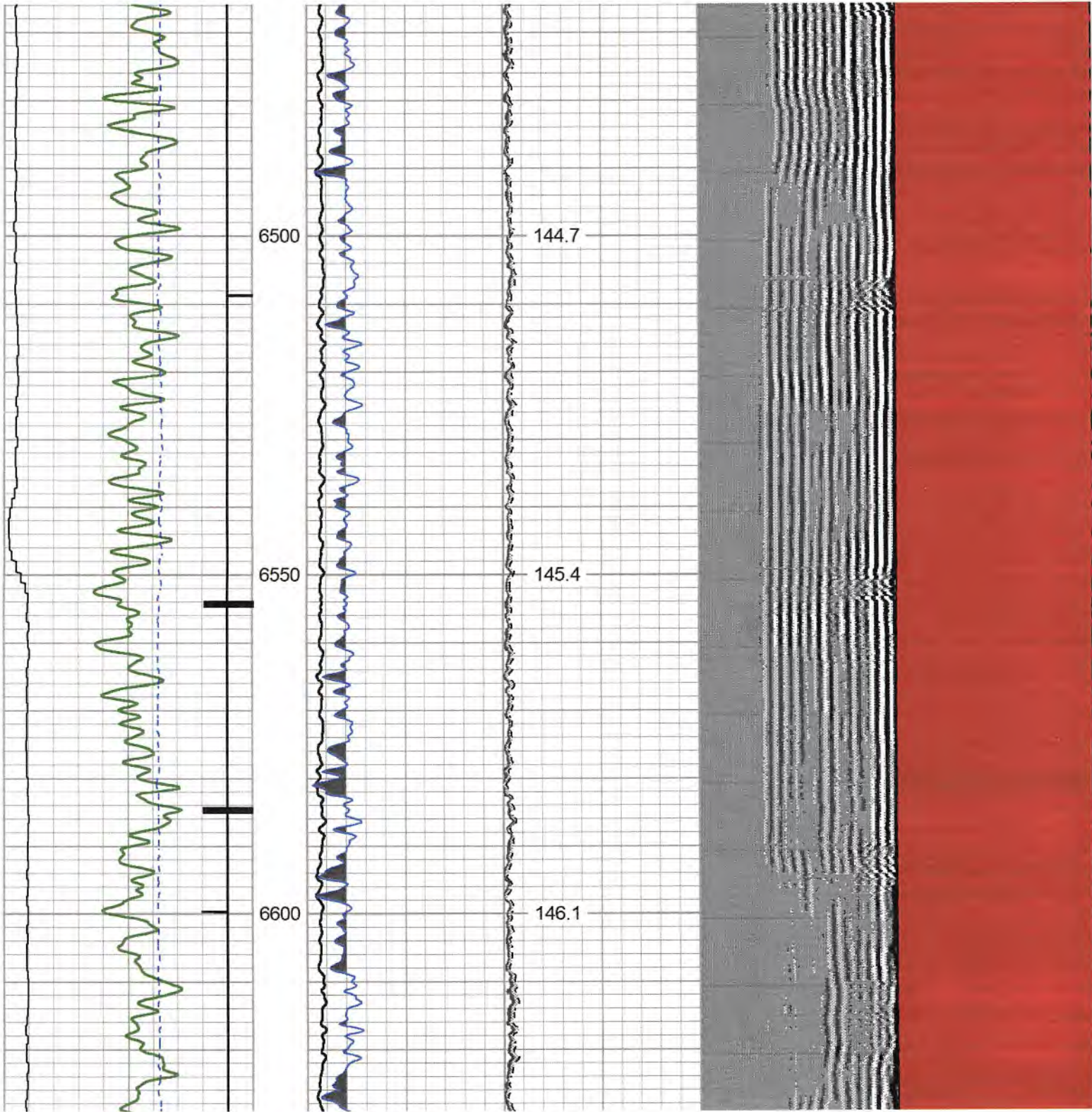


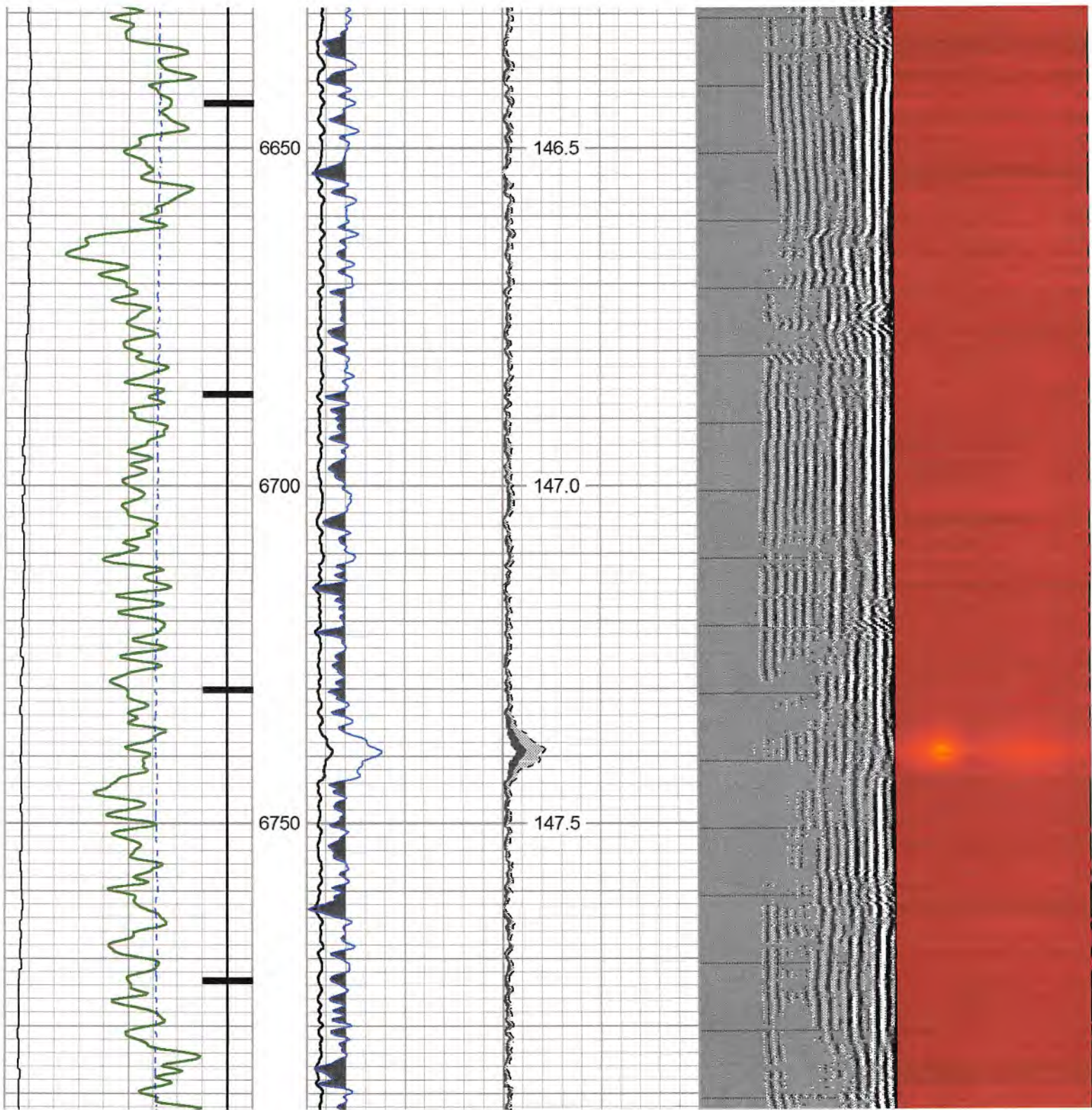


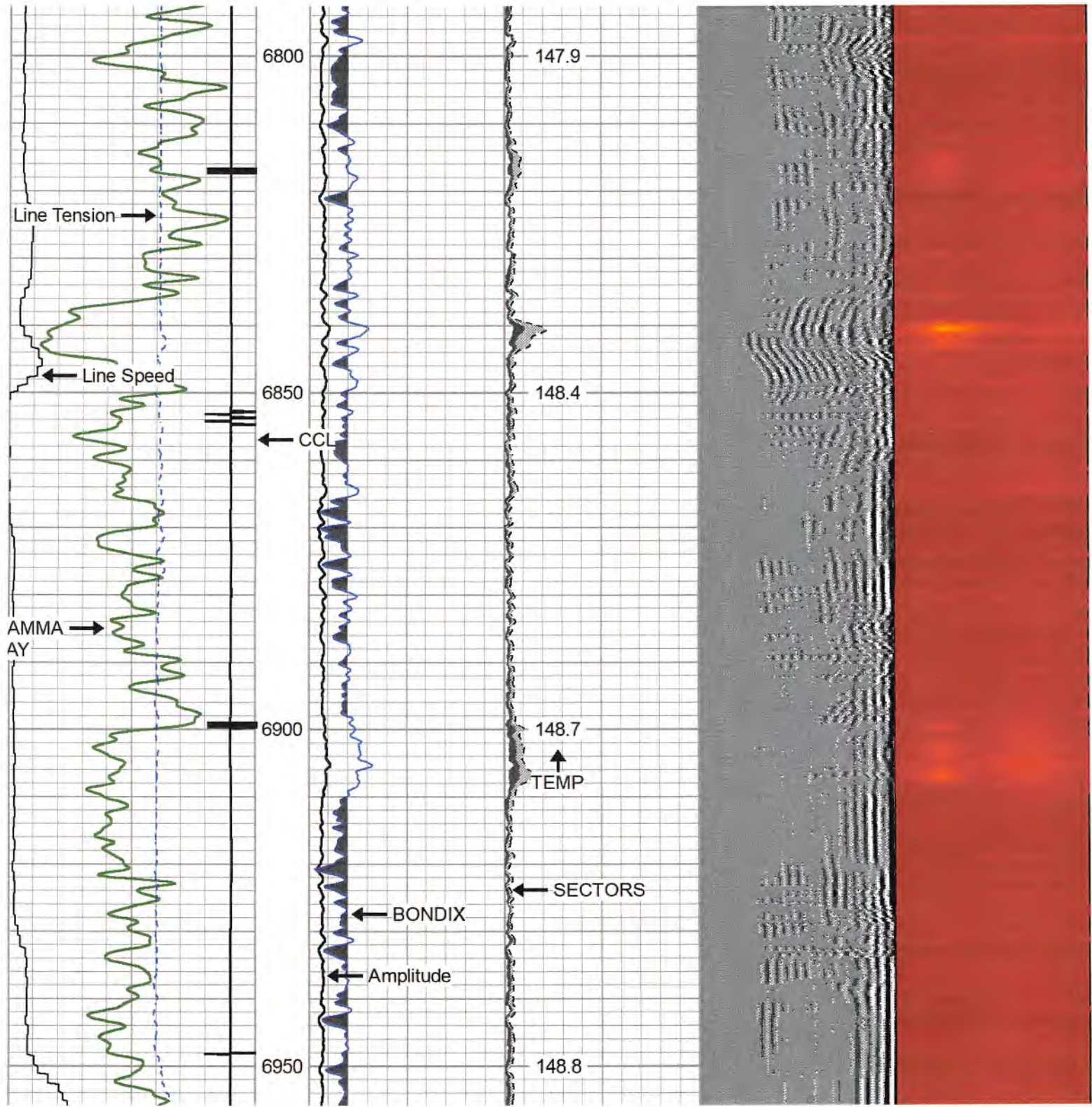


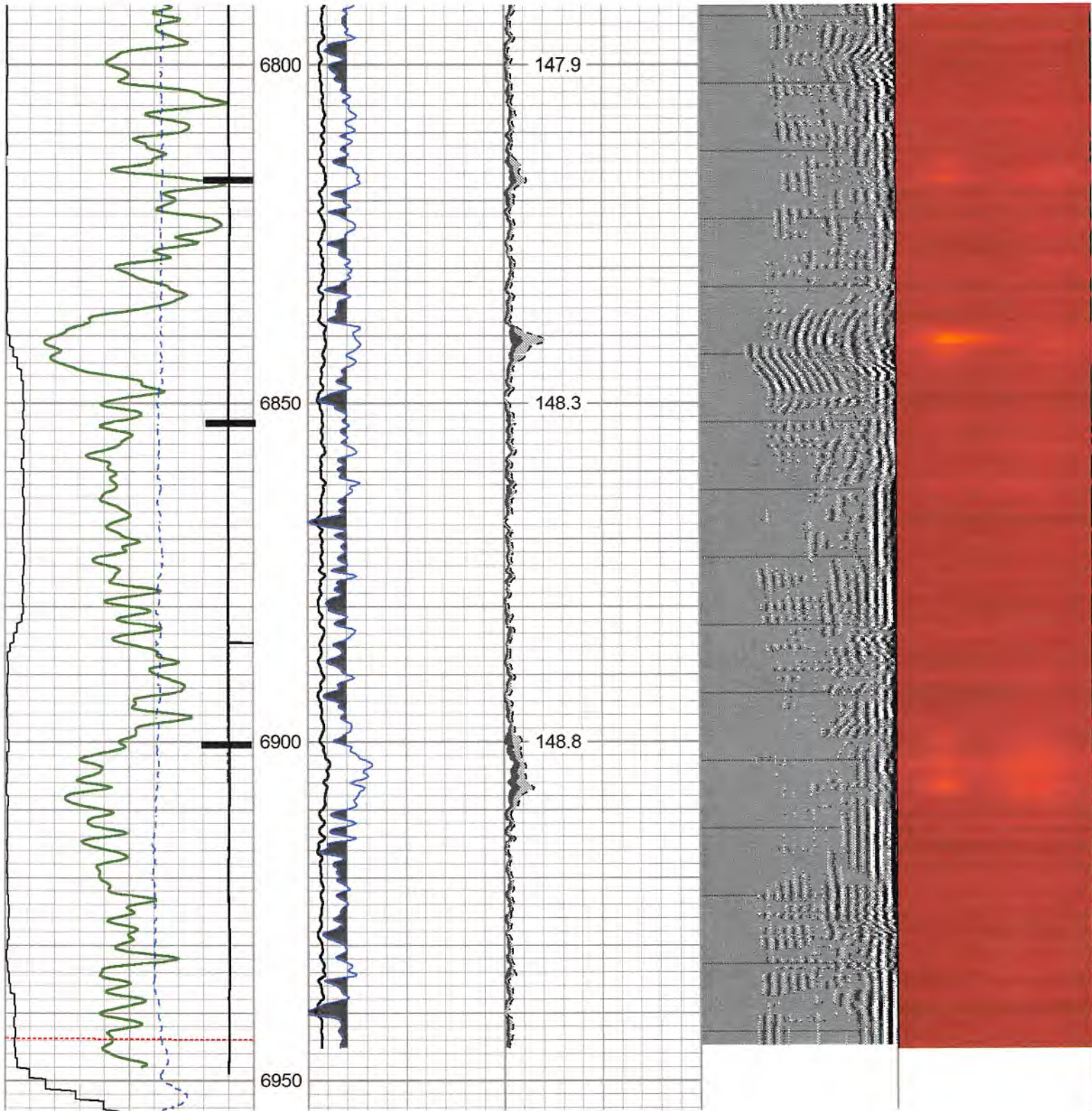












270	Travel Time (usec)	160	0	Amplitude (mV)	100	0	AMPMIN	150	Variable Density	1	Cement Map	8
9	Casing Collar	-1	1	BONDIX	0	0	AMPMAX	150	200 (usec)	1200		
0	Gamma Ray (GAPI)	150				0	AMPAVG	150				
	Line Speed						TEMP					
-100	(ft/min)	100					(degF)					
0	Line Tension (lb)	2000										

Calibration Report

Database File antero-national 2h-12-2-21.db
Dataset Pathname NATIONAL_2H/RCBL/pass17
Dataset Creation Fri Dec 03 17:42:00 2021

Gamma Ray Calibration Report

Serial Number: FW1211-86
Tool Model: Probe
Performed: Mon Nov 15 11:21:05 2021

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.7000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 2.75"
Tool Model: Probe275T

Calibration Casing Diameter: 5.500 in
Calibration Depth: 4102.683 ft

Master Calibration, performed Fri Dec 03 16:03:31 2021:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.015	0.353	4.000	70.000	179.560	6.654
CAL	0.490	0.487				
5'	-0.014	0.287	4.000	70.000	219.384	6.986
SUM						
S1	-0.004	0.323	0.000	100.000	306.129	1.091
S2	-0.012	0.328	0.000	100.000	293.715	3.539

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S3	-0.014	0.332	0.000	100.000	289.194	4.028
S4	-0.014	0.350	0.000	100.000	275.324	3.734
S5	-0.013	0.359	0.000	100.000	268.872	3.518
S6	-0.014	0.379	0.000	100.000	254.457	3.501
S7	-0.014	0.370	0.000	100.000	260.361	3.668
S8	-0.014	0.361	0.000	100.000	267.189	3.666

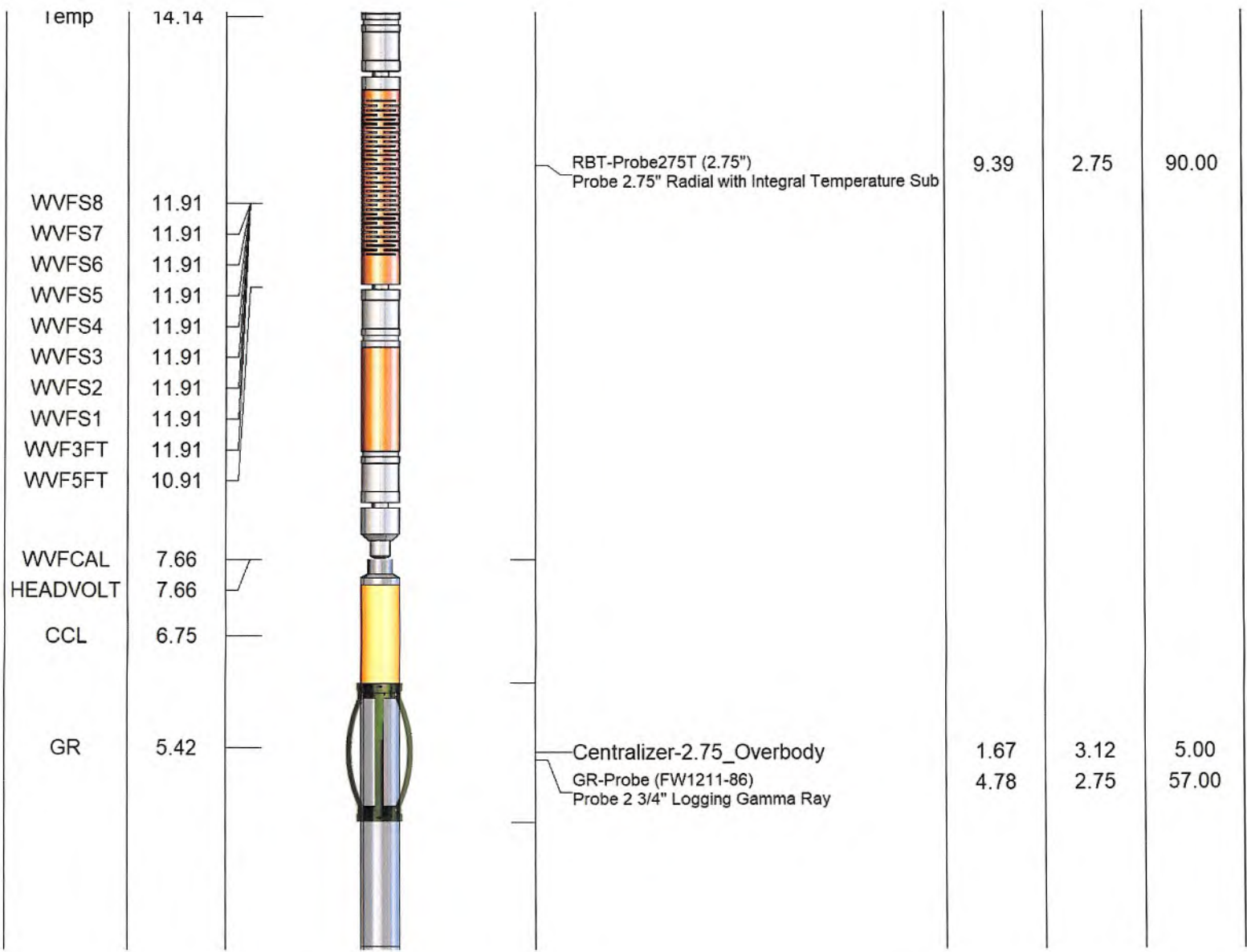
Internal Reference Calibration, performed Wed Nov 23 14:17:52 2011:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.490	0.487	1.000	0.000

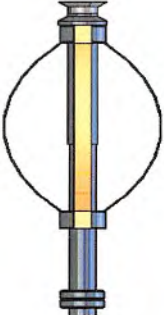
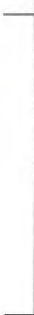
Air Zero Calibration, performed Fri Dec 03 08:57:17 2021:

	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	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
HeadVolt	16.99		CHD-Titan Standard 1 7/16" Cable Head	1.02	1.44	1.00
			Centralizer-2.75_Overbody	1.67	3.12	5.00



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			 <p>CENT-Probe275 2.75" Centralizer</p>	2.88	2.75	20.00
Dataset: antero-national 2h-12-2-21.db: field/NATIONAL_2H/RCBL/pass17 Total length: 18.07 ft Total weight: 178.00 lb O.D.: 3.12 in						

	Company ANTERO RESOURCES Well MARGERY-NATIONAL 2H Field RABBIT EARS County TYLER State WV
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