TWG THE WIRELINE GROUP

RADIAL CEMENT BOND LOG
GAMMA RAY/CCL

Company TEP ROCKY MOUNTAIN LLC
Well FEDERAL RWF 43-9
Field RULISON
County GARFIELD
State CO
CountryUSA

Company	TEP ROCKY MOUNTAIN LLC
Well	FEDERAL RWF 43-9
Field	RULISON
County	GARFIELD
State	CO
Country	USA

Location: API # : 05-045-24397

2525' FSL & 550' FEL NESE
Lat/Long: 39.539370 / -107.885401
SEC 9 TWP 6S RGE 94W

Permanent Datum GL Elevation 6369'
Log Measured From KB
Drilling Measured From KB

Other Services
NONE

Elevation
K.B. 6399'
D.F. N/A
G.L. 6369'

Date	5 MARCH 2022		
Run Number	ONE		
Depth Driller	9434'		
Depth Logger	9349'		
Bottom Logged Interval	9347'		
Top Log Interval	SURFACE		
Open Hole Size	8.75"		
Type Fluid	WATER		
Density / Viscosity	8.3#		
Max. Recorded Temp.	242* F		
Estimated Cement Top	SEE LOG		
Time Well Ready	ROA		
Time Logger on Bottom	16:00		
Equipment Number	8048		
Location	WINDSOR, CO		
Recorded By	SCHUMAN	CALIENDO	
Witnessed By	MR DUSTIN WELSH		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625"	36#	SURFACE	1118'
Prot. String				
Production String	4.5"	11.6#	SURFACE	9388'
Liner				

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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 CASING TALLY MARKER JOINT TOP: 5742'
MAIN PASS RAN WITH ZERO PSI @ SURFACE
THANK YOU FOR USING THE WIRELINE GROUP!

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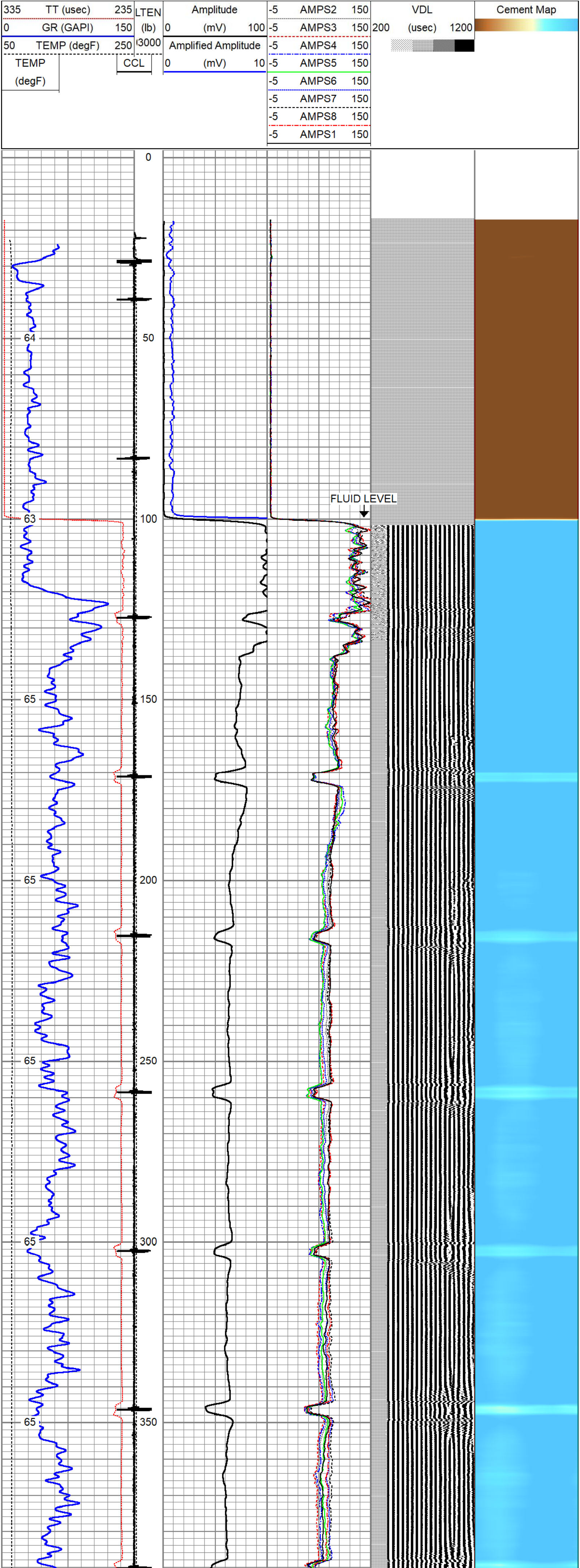
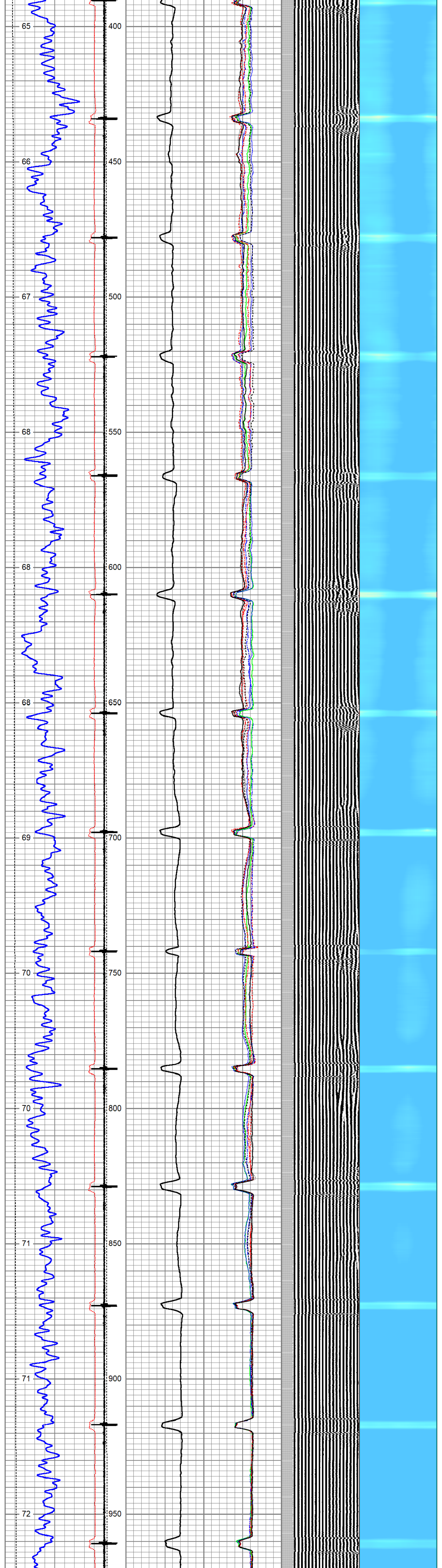
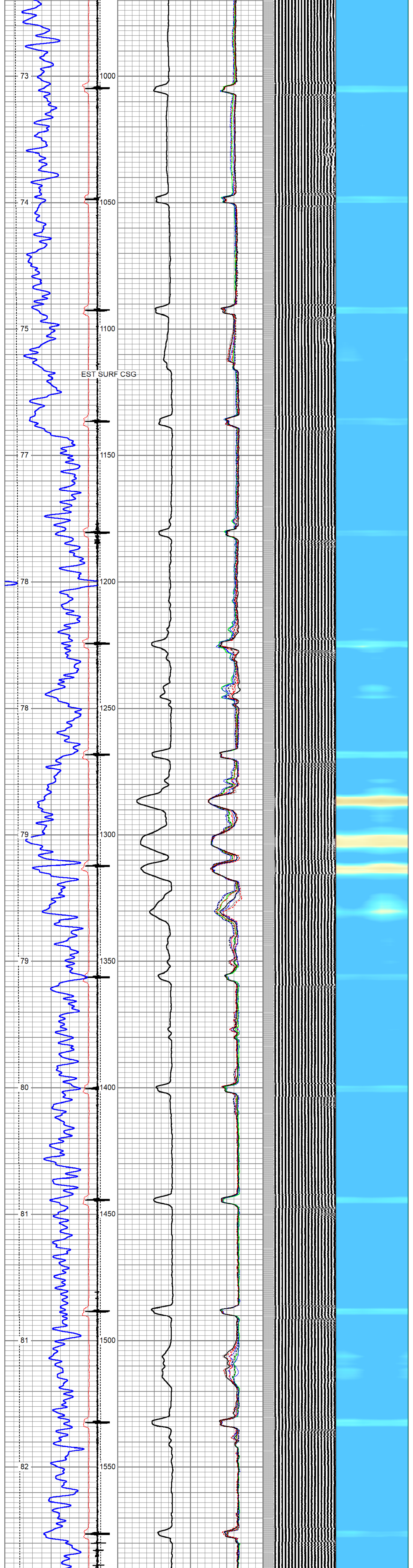
MAIN PASS

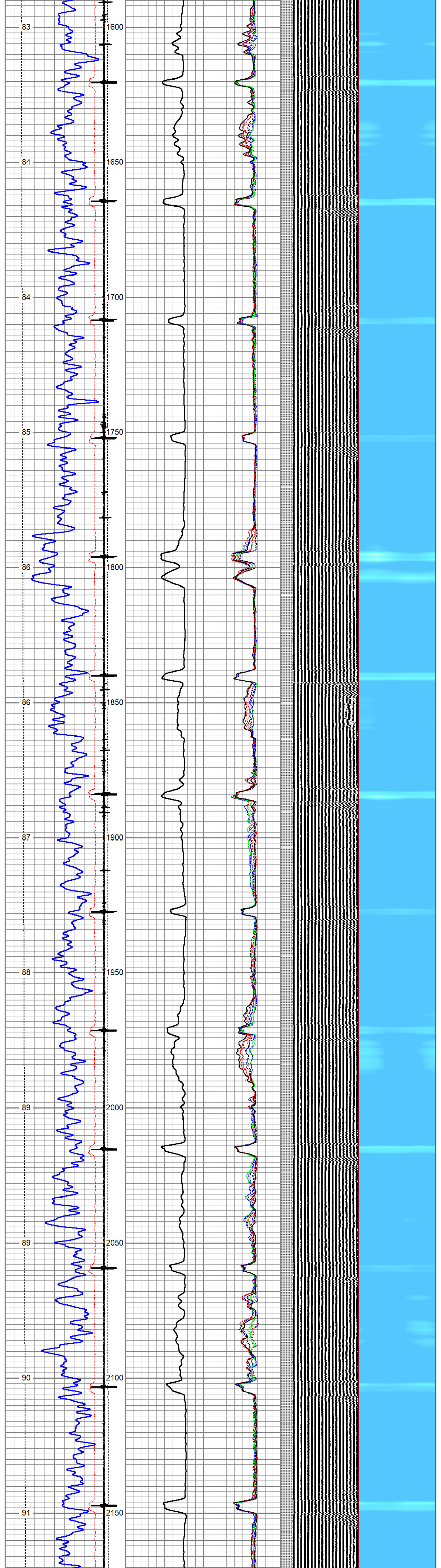
LOGGED WITH ZERO PSI AT SURFACE
5"=100'

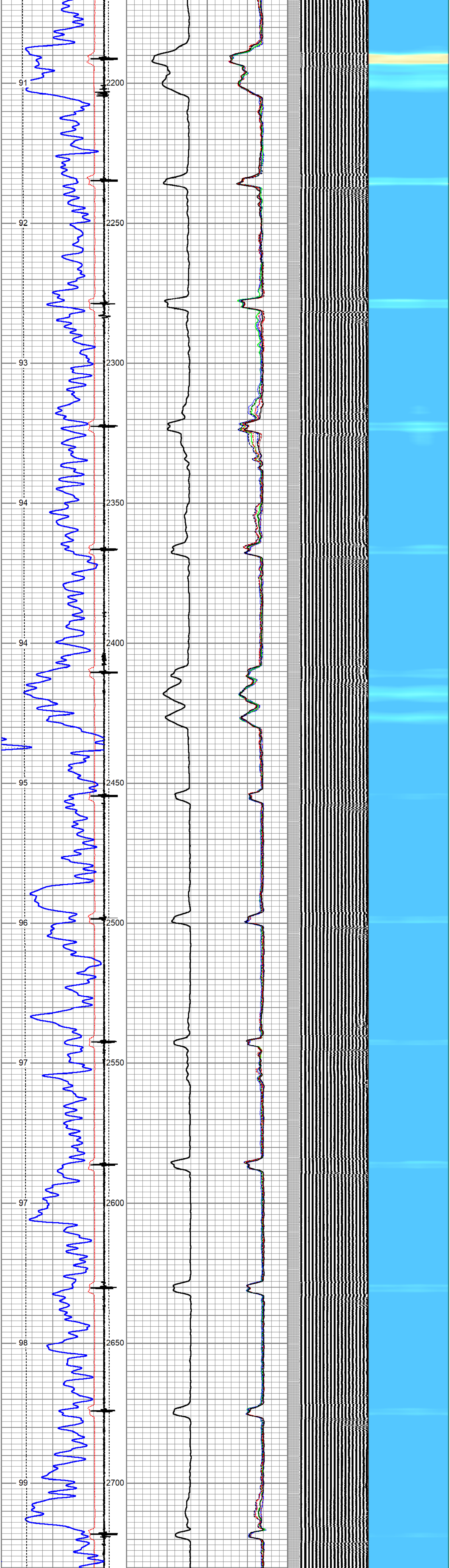
Database File rwf 43-9.db
Dataset Pathname cbl/pass3
Presentation Format rbl7
Dataset Creation Sat Mar 05 16:30:53 2022
Charted by Depth in Feet scaled 1:240

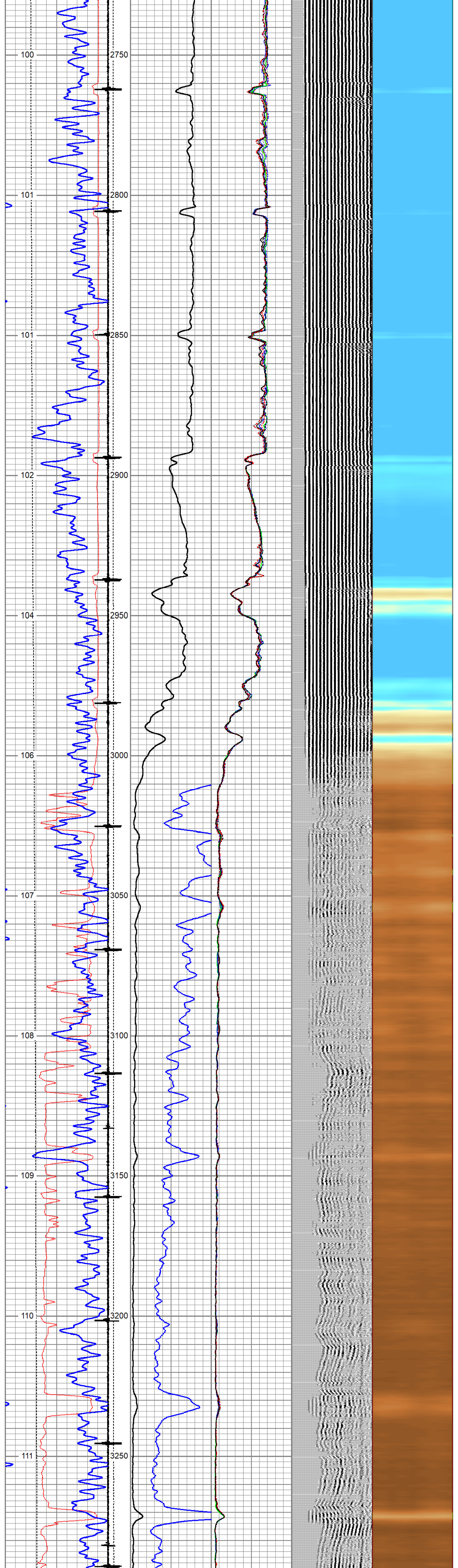


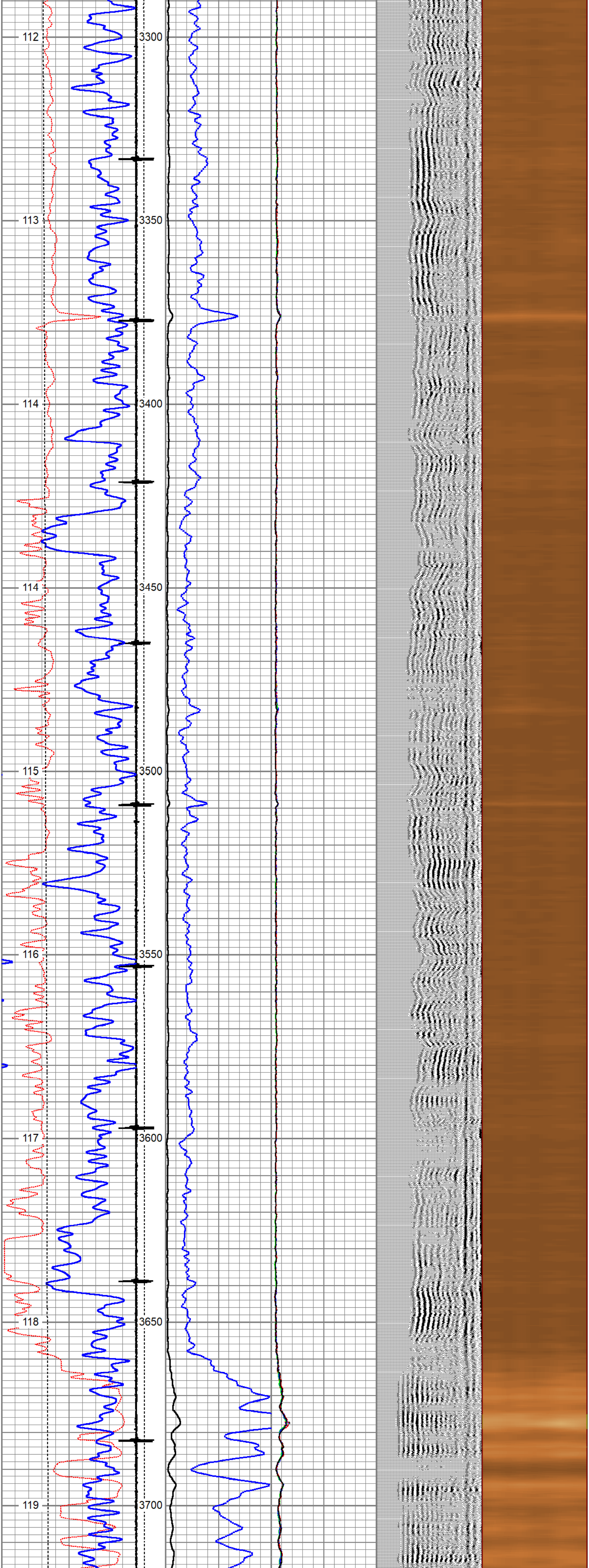


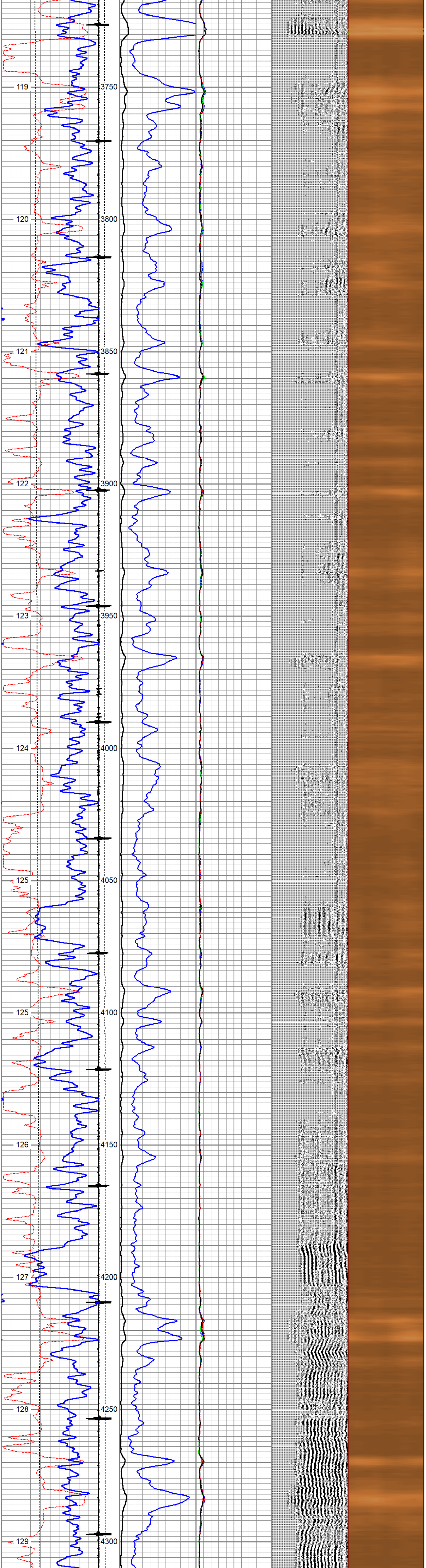








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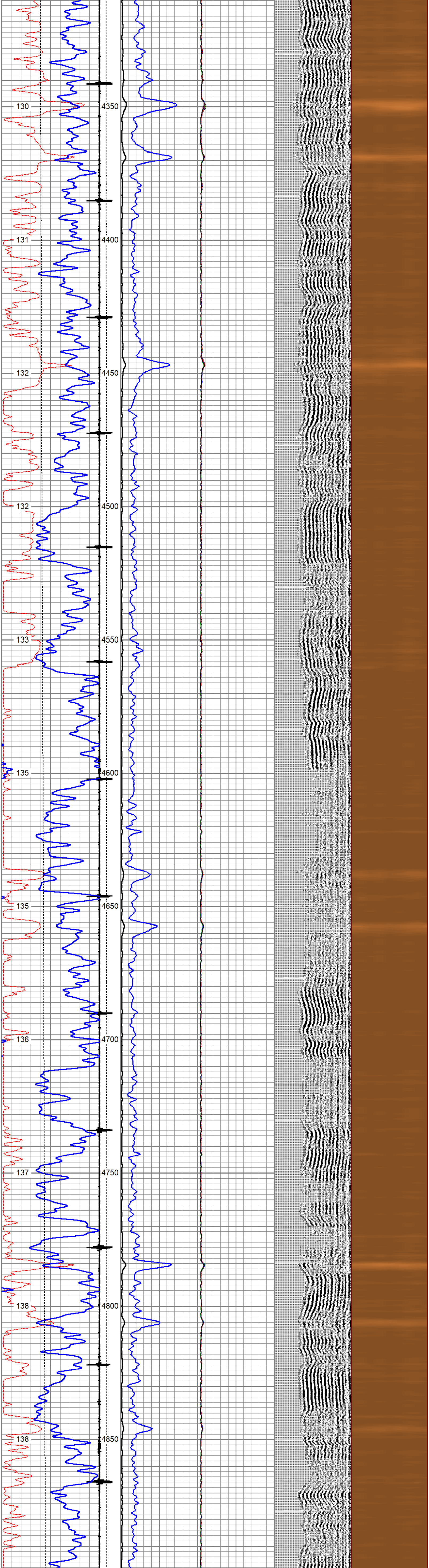
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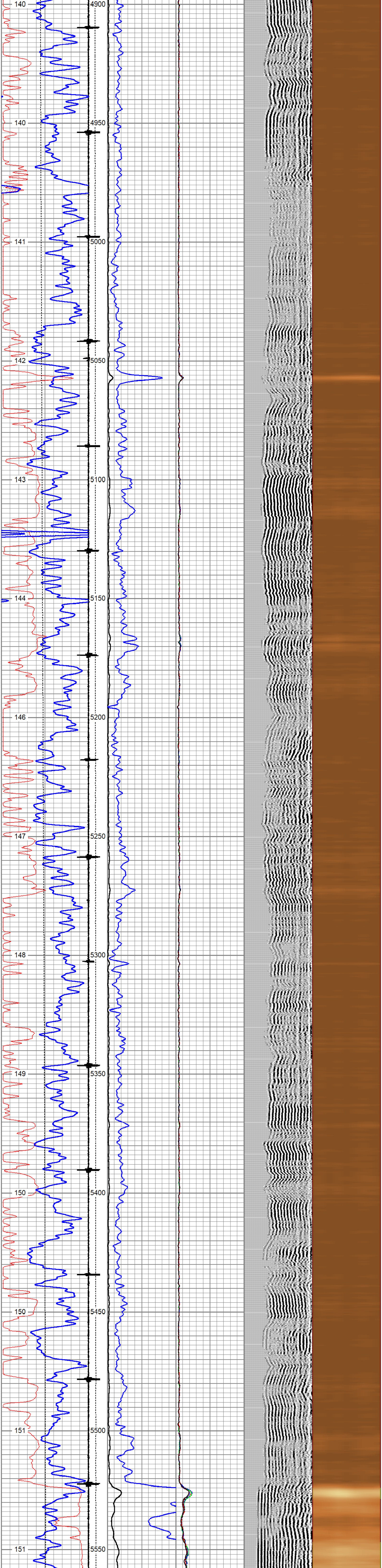
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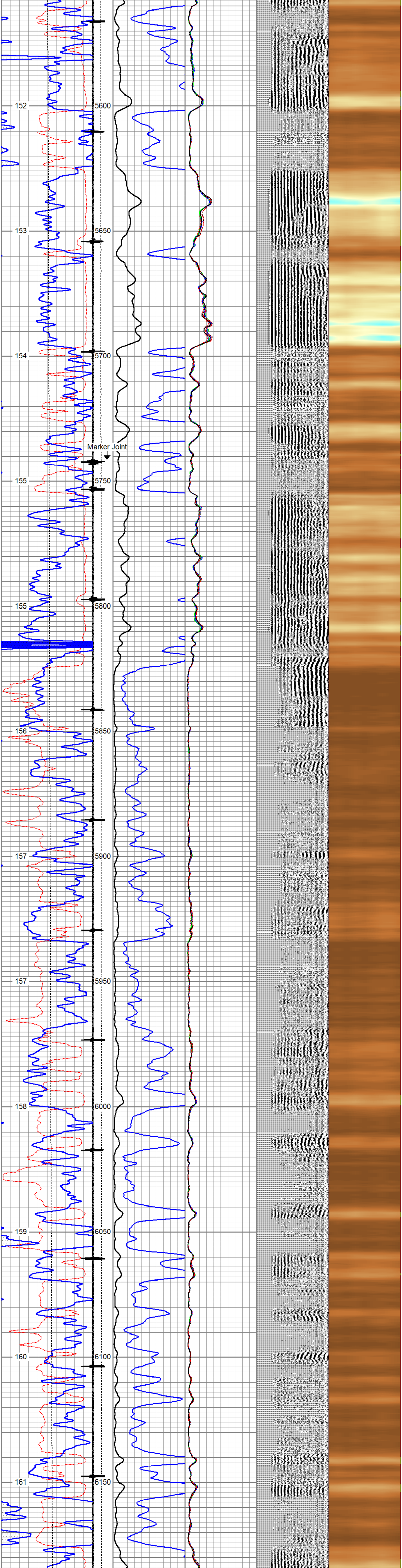
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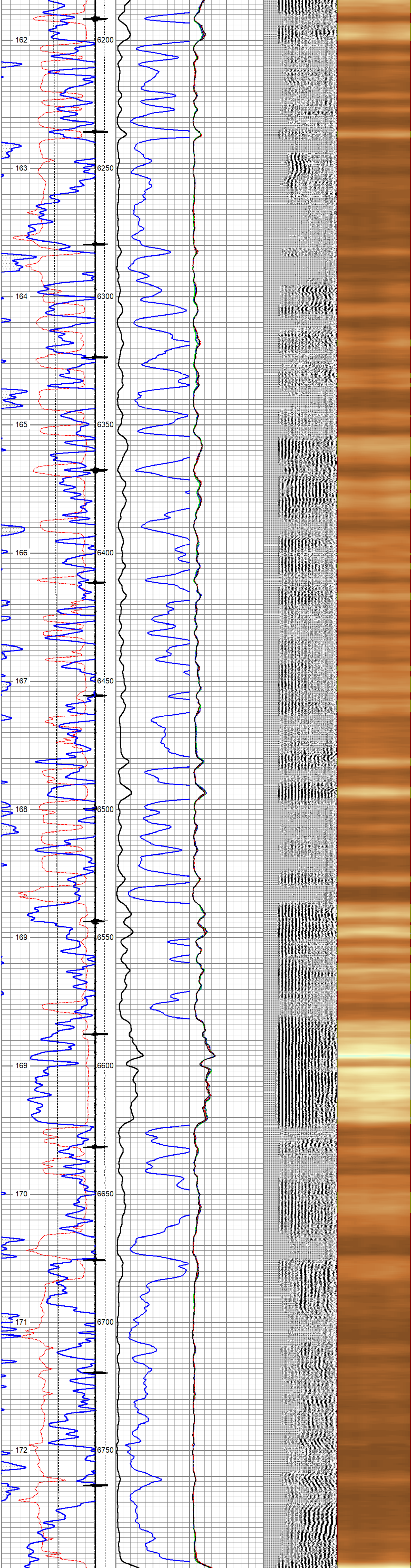
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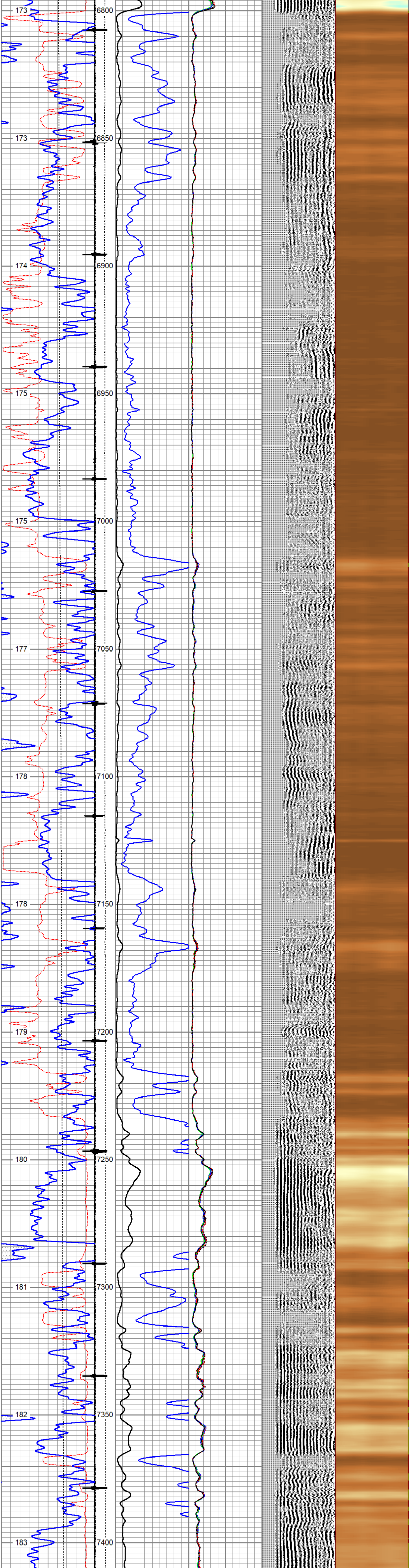
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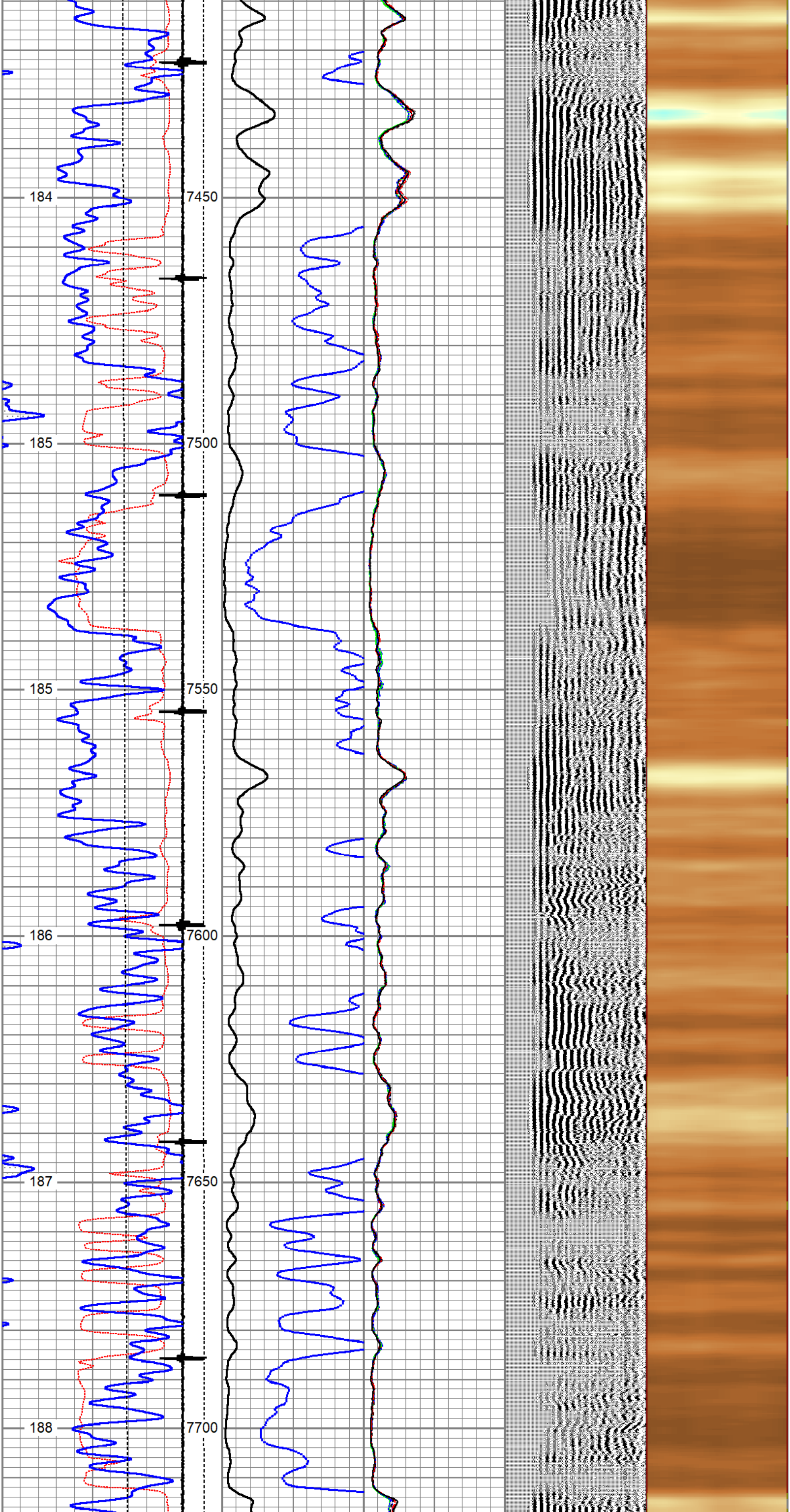
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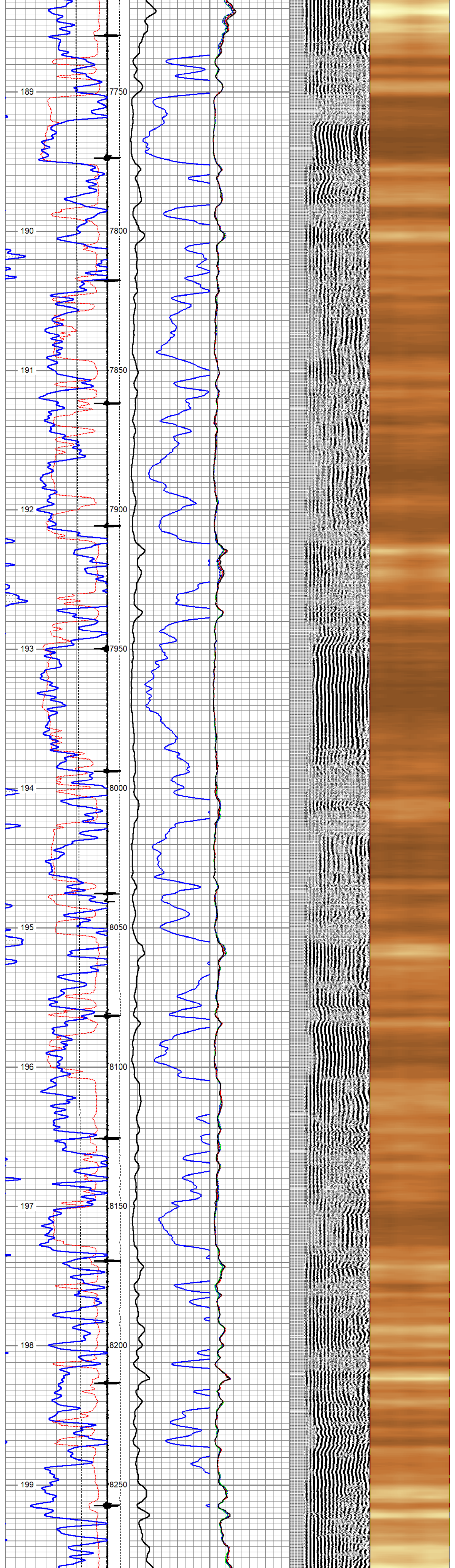

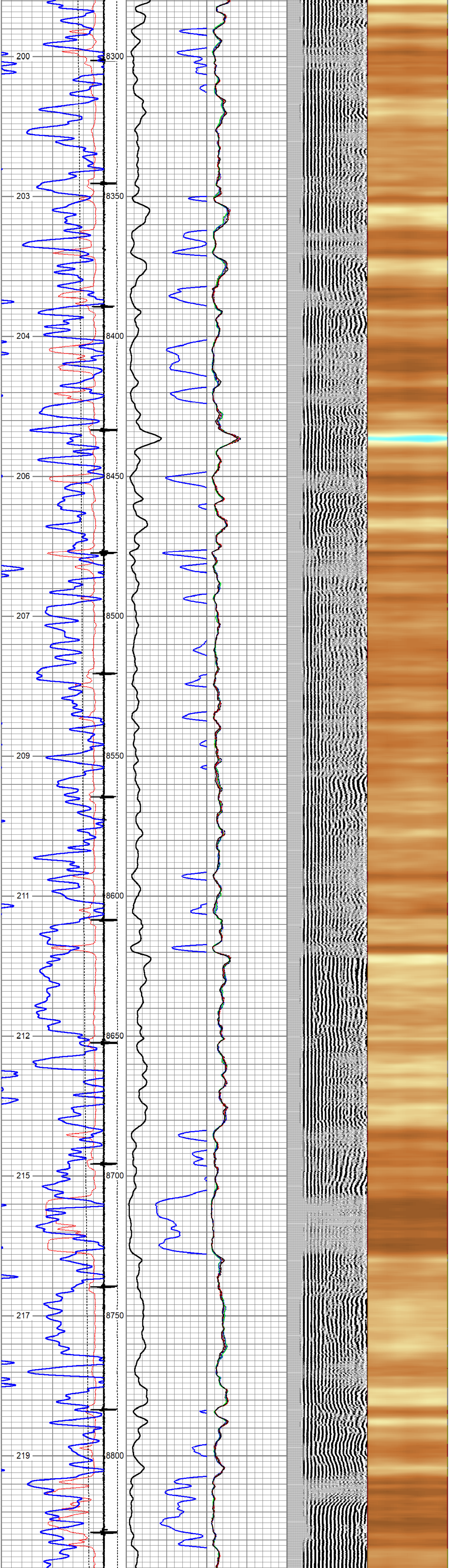

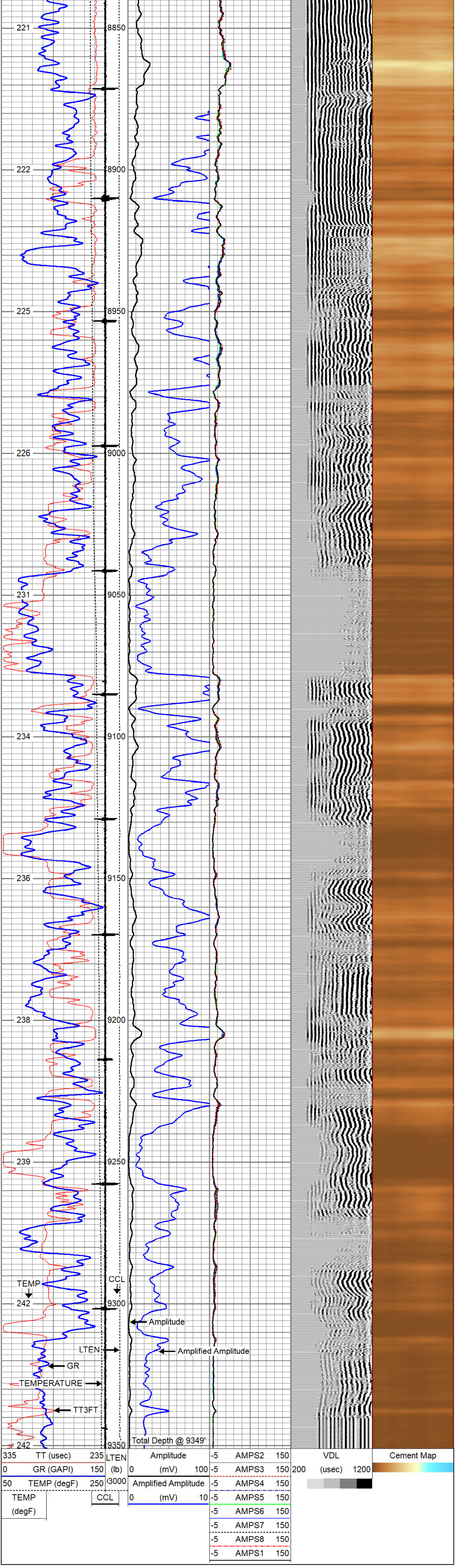

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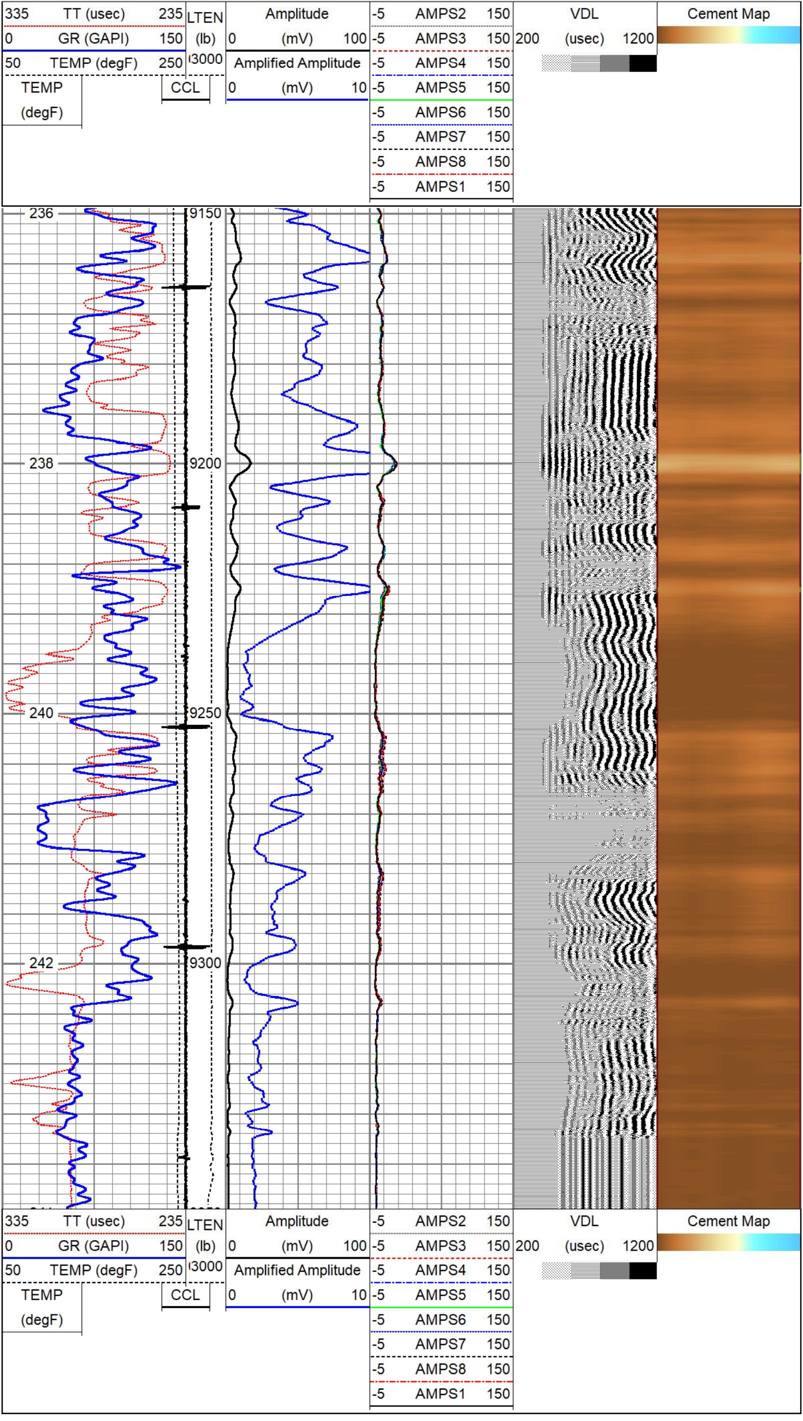
REPEAT SECTION

LOGGED WITH ZERO PSI AT SURFACE
5"=100'

Database File	rwf 43-9.db
Dataset Pathname	cbl/pass1
Presentation Format	rbl7
Dataset Creation	Sat Mar 05 16:10:08 2022
Charted by	Depth in Feet scaled 1:240



Calibration Report

Database File	rwf 43-9.db
Dataset Pathname	cbl/pass1
Dataset Creation	Sat Mar 05 16:10:08 2022

Gamma Ray Calibration Report

Serial Number:	1401-17	
Tool Model:	GCT275-0000	
Performed:	Fri Jan 28 14:50:15 2022	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	120663-4.5	
Tool Model:	RADII-275C	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	2657.485	ft

Master Calibration, performed Sat Mar 5 15:24:31 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.006	0.712	0.700	81.196	110.071	0.023
CAL	0.005	1.012				
5'	0.005	0.604	0.700	81.196	134.305	0.041
SUM						
S1	0.008	0.695	0.000	100.000	145.439	-1.101
S2	0.004	0.656	0.000	100.000	153.225	-0.554
S3	0.005	0.648	0.000	100.000	155.594	-0.851
S4	0.006	0.673	0.000	100.000	149.932	-0.389
S5	0.006	0.721	0.000	100.000	139.786	-0.846
S6	0.003	0.782	0.000	100.000	128.452	-0.419
S7	0.002	0.787	0.000	100.000	127.304	-0.214
S8	0.003	0.751	0.000	100.000	133.684	-0.403

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.005	1.012	1.000	0.000

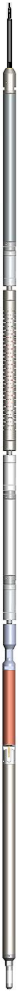
Air Zero Calibration, performed (Not Performed):

	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

Inclinometer Calibration Report

Performed: (Not Performed)

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	0.00	1.00	0.00	1.00	gee
Y Accelerometer	0.00	1.00	0.00	1.00	gee
Z Accelerometer	0.00	1.00	0.00	1.00	gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
mSec_Count	14.85		Cable-Head-Titan 1 7/16" Cable Head	1.00	1.44	1.00
RBT_Status	14.85					
Error_Ct	14.85					
RBT_HV	13.85					
WVFS8	9.35		RBT8-RADII-275C (120663-4.5) Probe 2.75" RADII 8 Sector Bond Tool	8.75	2.75	
WVFS7	9.35					
WVFS6	9.35					
WVFS5	9.35					
WVFS4	9.35					
WVFS3	9.35					
WVFS2	9.35					
WVFS1	9.35					
WVF3FT	9.35					
RBT_ACCZ	8.35					
RBT_ACCY	8.35					
RBT_ACCX	8.35					
WVF5FT	8.35					
GCT_HV	5.10					
WVFSYNC	5.10					
WVFCAL	5.10					
CCL$2	4.14					
CCL$1	4.14					
GCT_Temp	3.59					
GR	2.72		GC-GCT275-0000 (1401-17) Probe 2.75" Gamma Ray - CCL w/ Temp	4.77	2.75	55.00
GCT_IntTemp	2.00					
			Plug-FA108-0000 1.38" Bull Plug	0.33	1.38	1.00

Dataset:	rwf 43-9.db: field/well/cbl/pass1
Total length:	14.85 ft
Total weight:	57.00 lb
O.D.:	2.75 in

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Company	TEP ROCKY MOUNTAIN LLC
Well	FEDERAL RWF 43-9
Field	RULISON
County	GARFIELD
State	CO
Country	USA