TWG THE WIRELINE GROUP

RADIAL CEMENT BOND LOG GAMMA RAY/CCL

Company	TEP ROCKY MOUNTAIN LLC
Well	FEDERAL RWF 344-9
Field	RULISON
County	GARFIELD
State	CO CountryUSA

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Field	RULISON
County	GARFIELD
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Location: API # : 05-045-24393

2536' FSL & 499' FEL NESE
Lat/Long: 39.539400 / -107.885219
SEC 9 TWP 6S RGE 94W

Other Services: NONE

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

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

Date	6 MARCH 2022
Run Number	ONE
Depth Driller	9602'
Depth Logger	9463'
Bottom Logged Interval	9461'
Top Log Interval	SURFACE
Open Hole Size	8.75"
Type Fluid	WATER
Density / Viscosity	8.3#
Max. Recorded Temp.	239° F
Estimated Cement Top	SEE LOG
Time Well Ready	ROA
Time Logger on Bottom	15:30
Equipment Number	8048
Location	WINDSOR, CO
Recorded By	SCHUMAN
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	9555'
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 5740-5760'
MAIN PASS RAN WITH ZERO PSI @ SURFACE
LOG WAS RAN WITH 30' K.B.
THANK YOU FOR USING THE WIRELINE GROUP!

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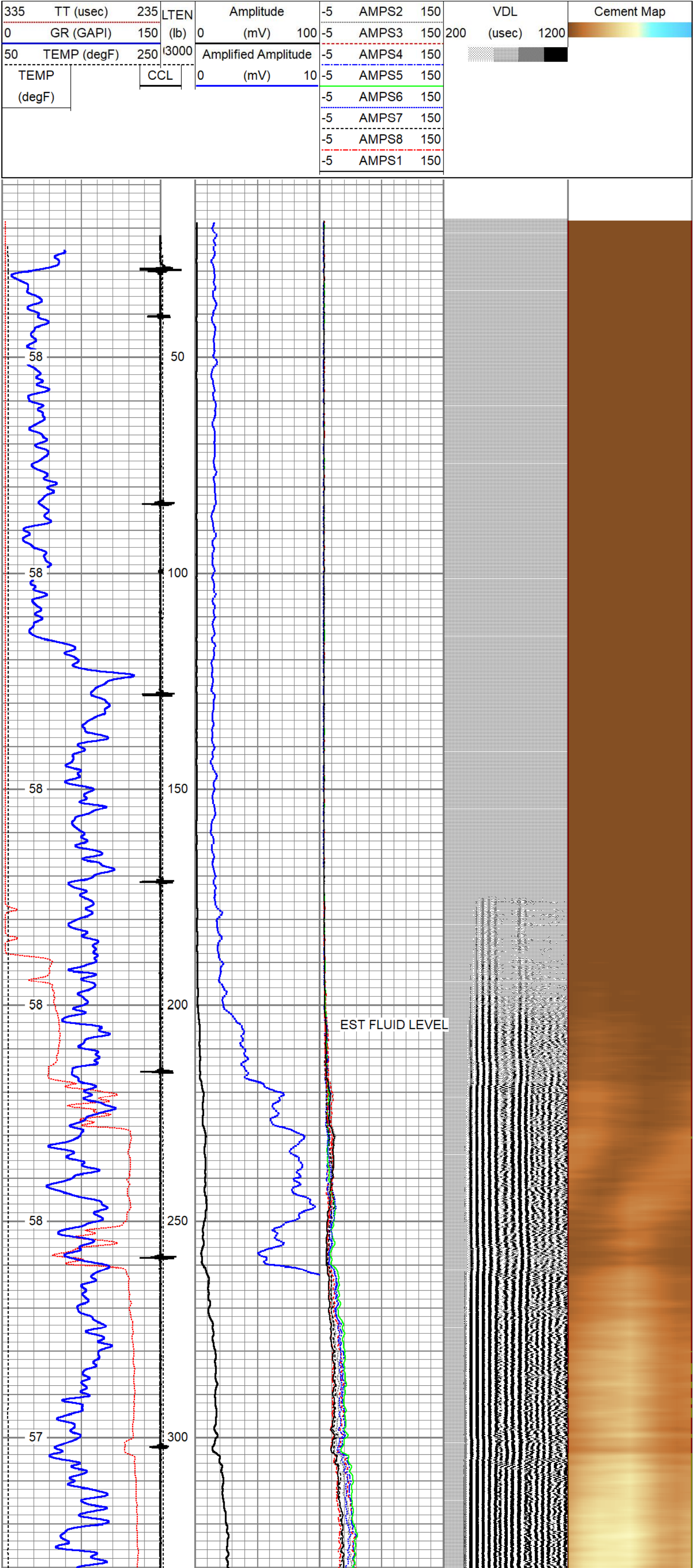
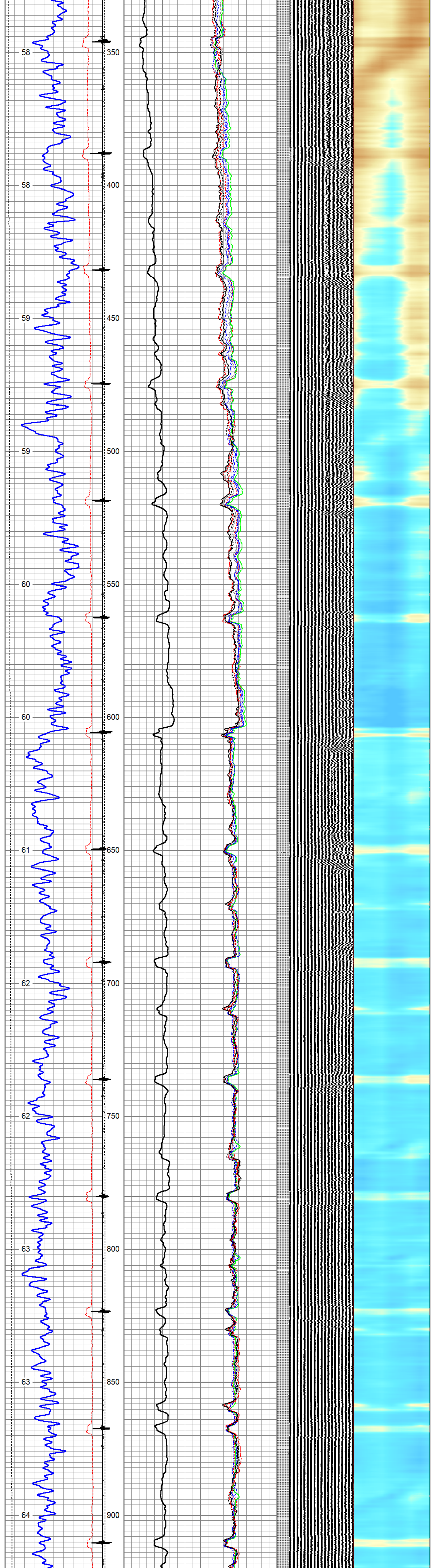
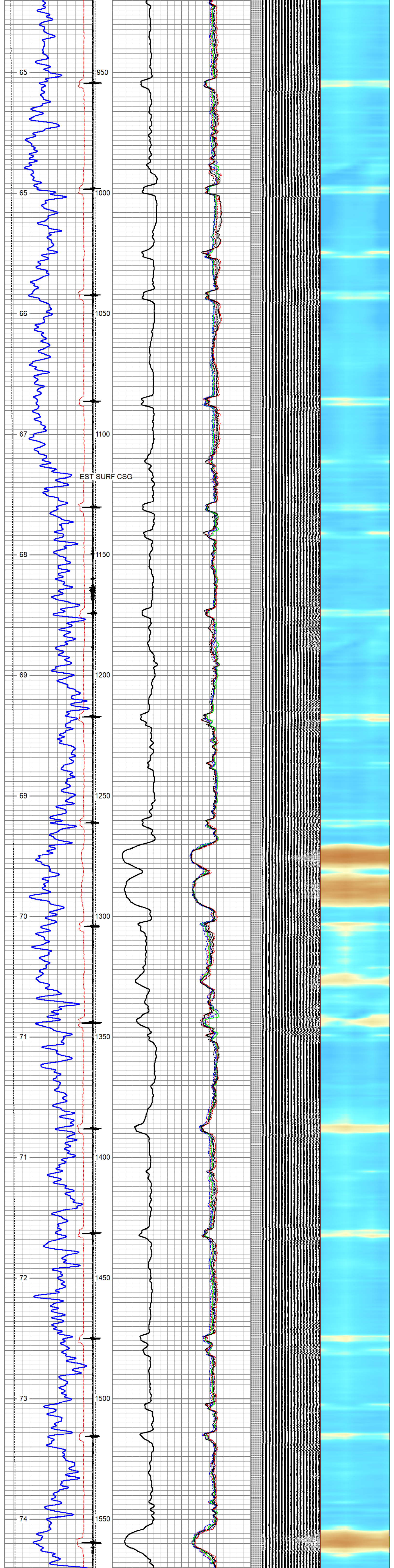
MAIN PASS

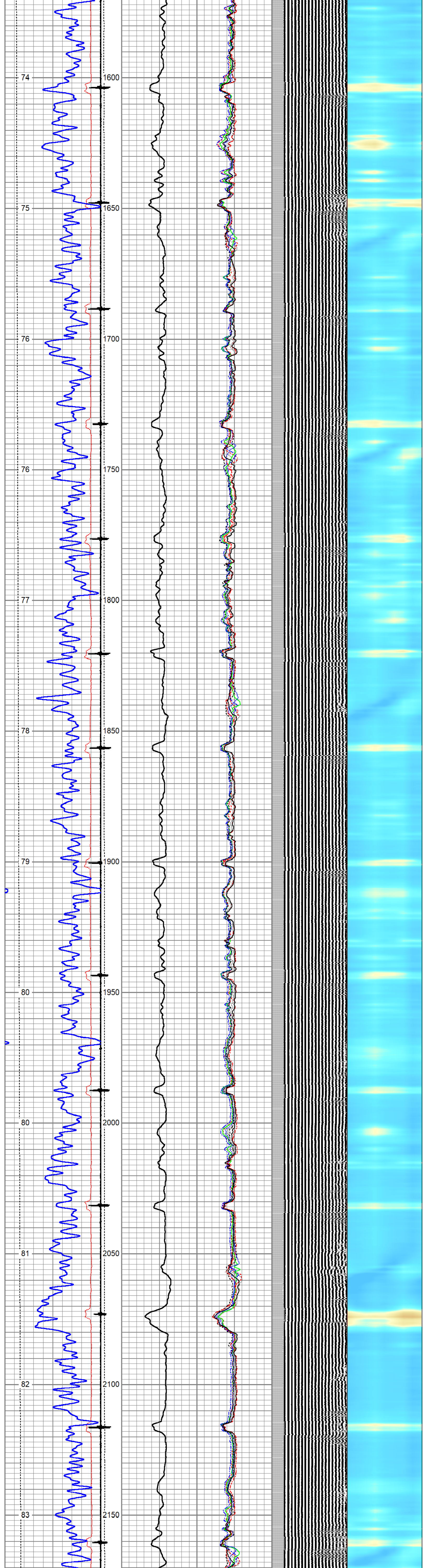
LOGGED WITH ZERO PSI AT SURFACE
5"=100'

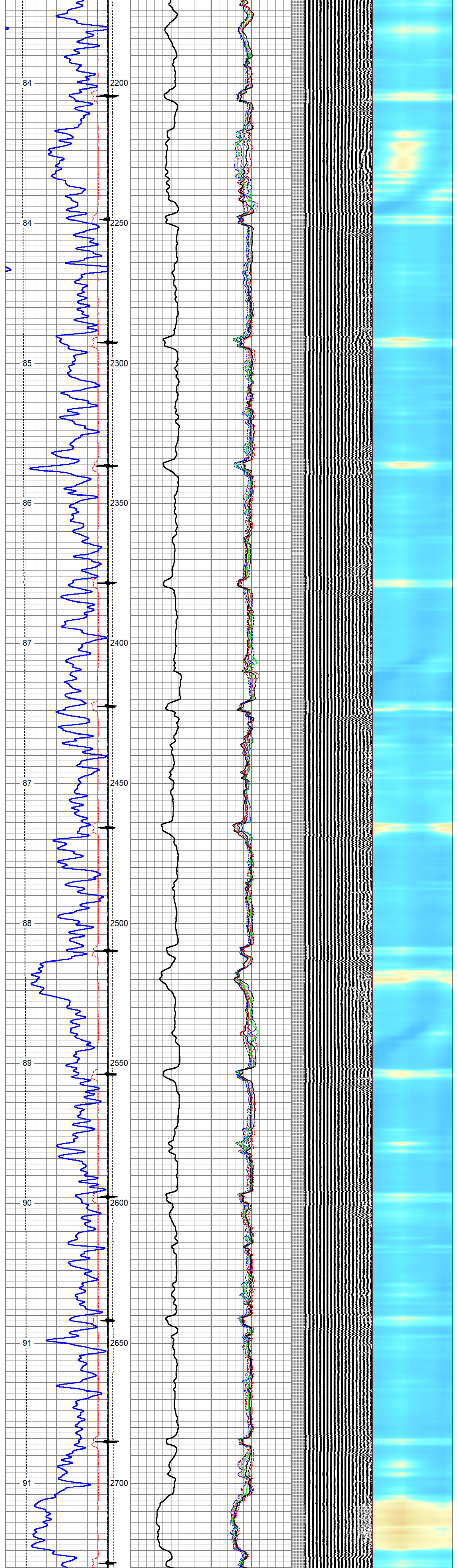
Database File	federal rwf 344-9.db
Dataset Pathname	cbl/pass3
Presentation Format	rbl7
Dataset Creation	Sun Mar 06 15:35:13 2022
Charted by	Depth in Feet scaled 1:240

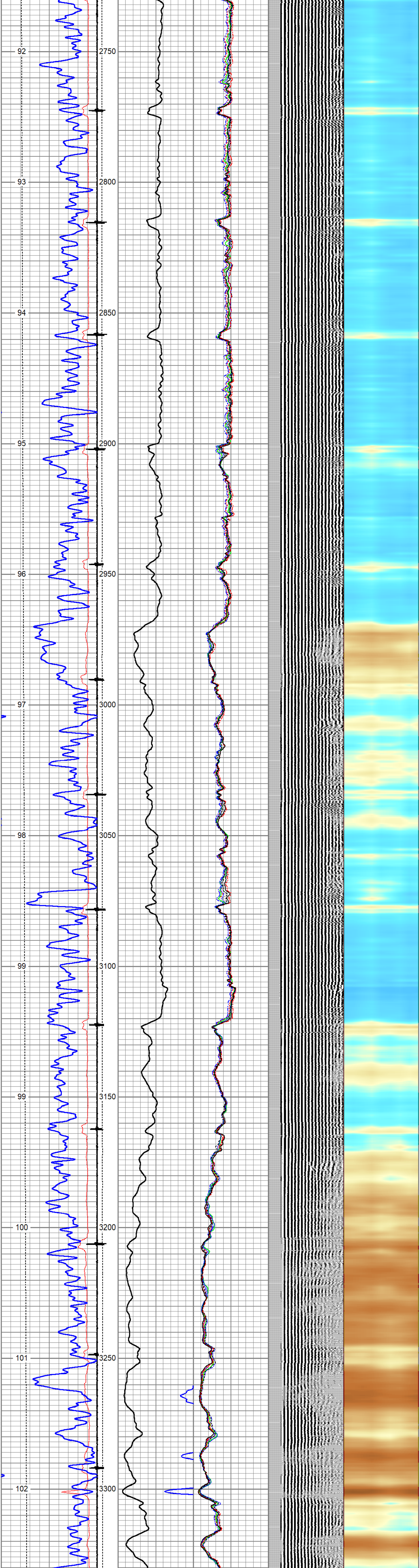


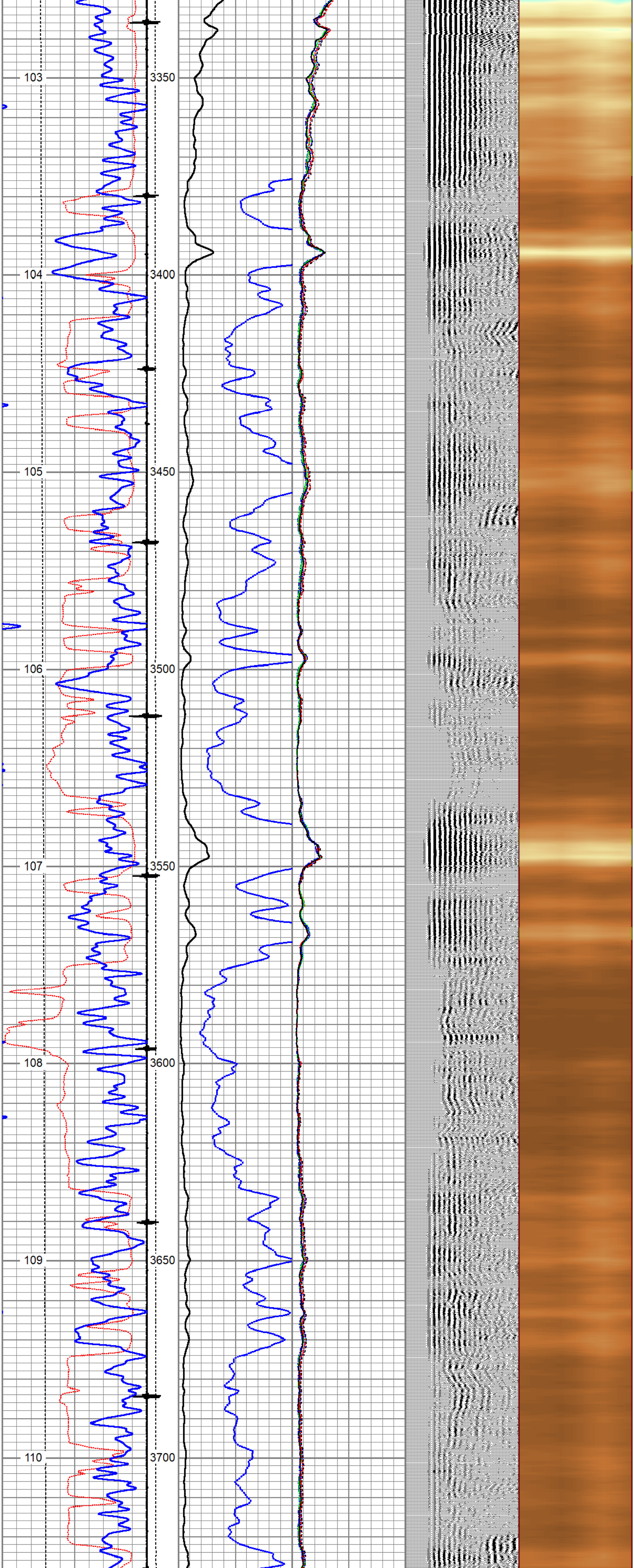


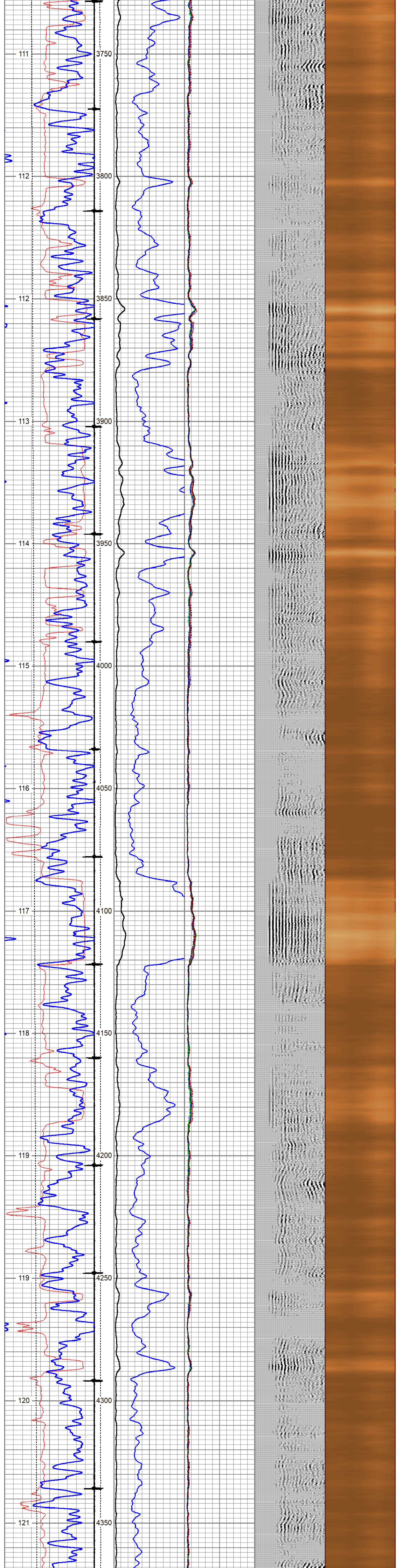








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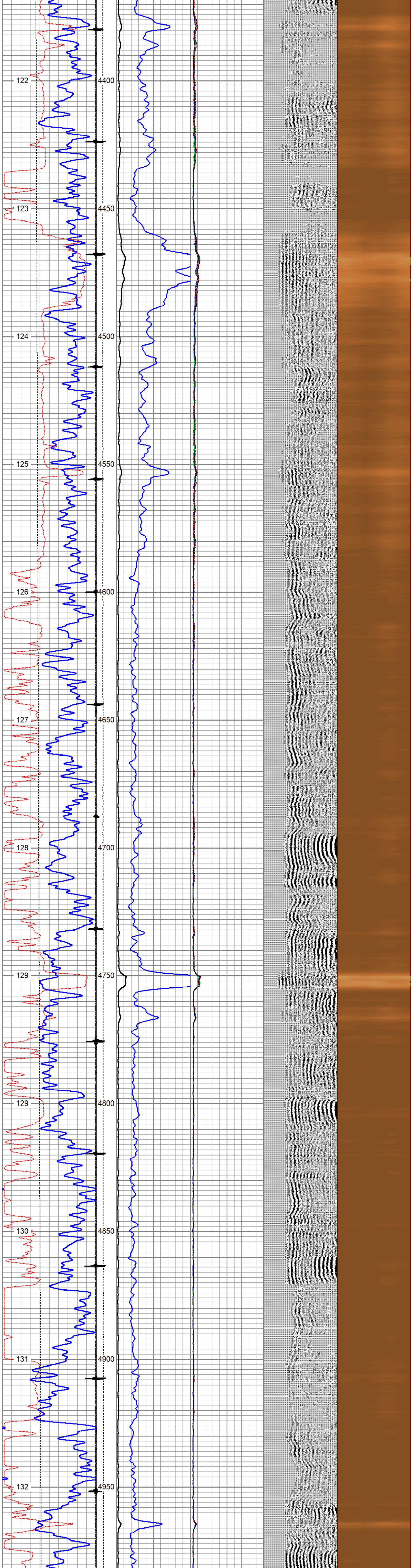
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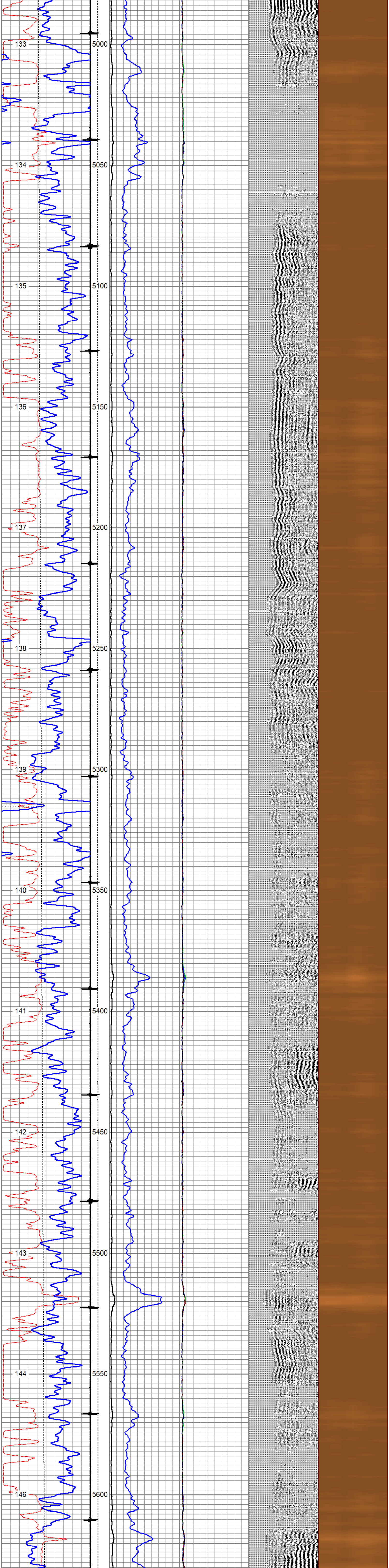
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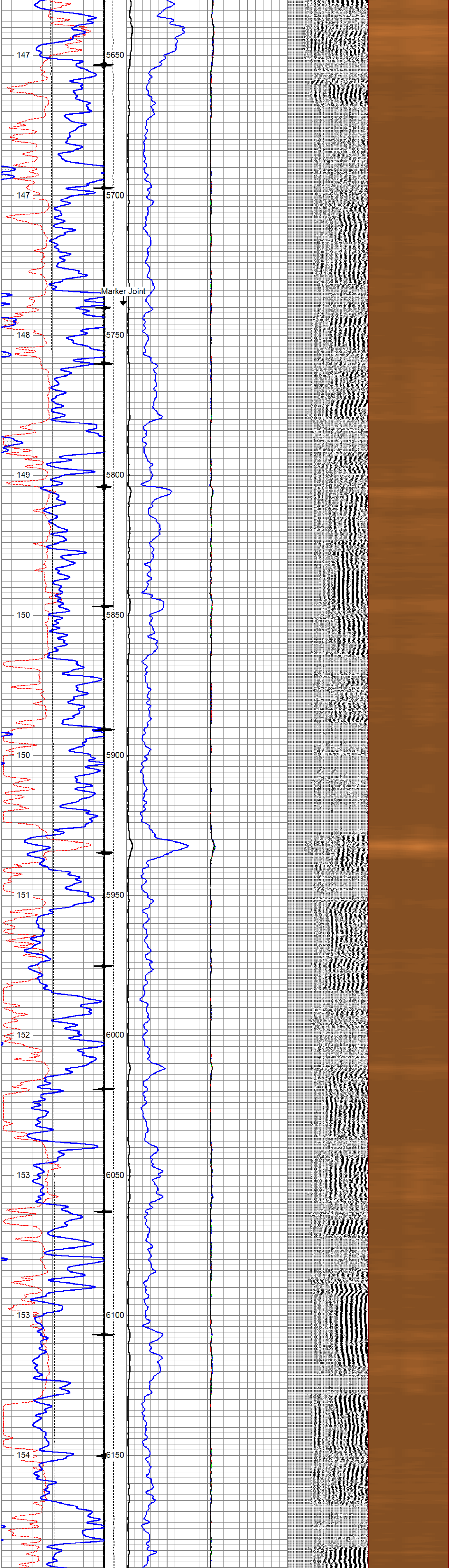
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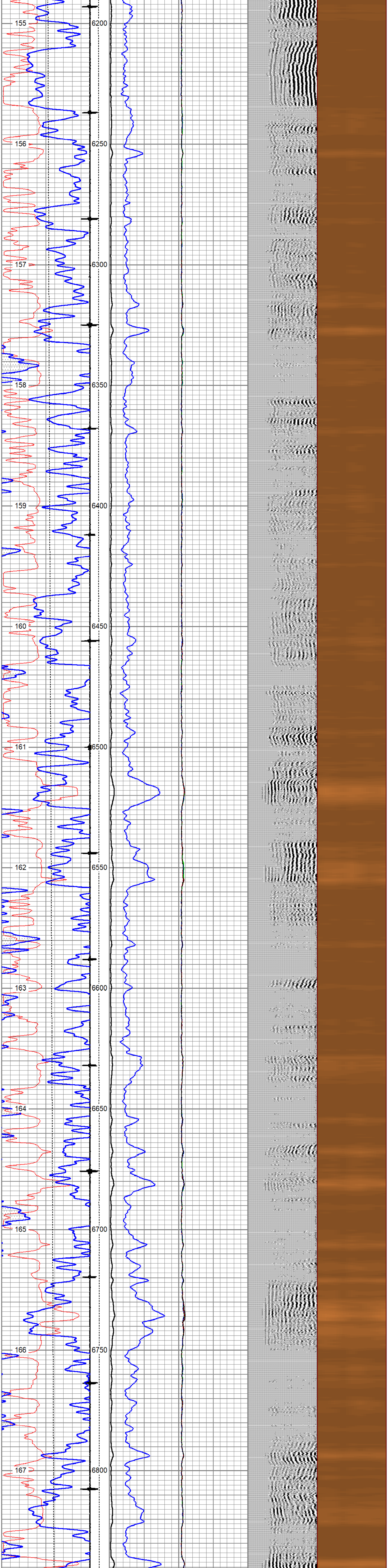
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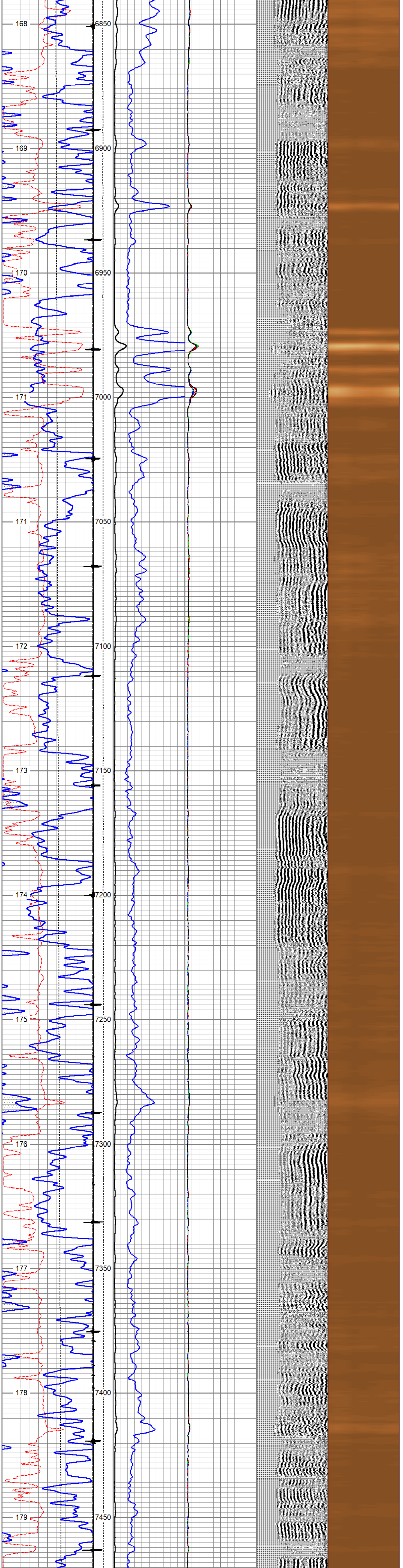
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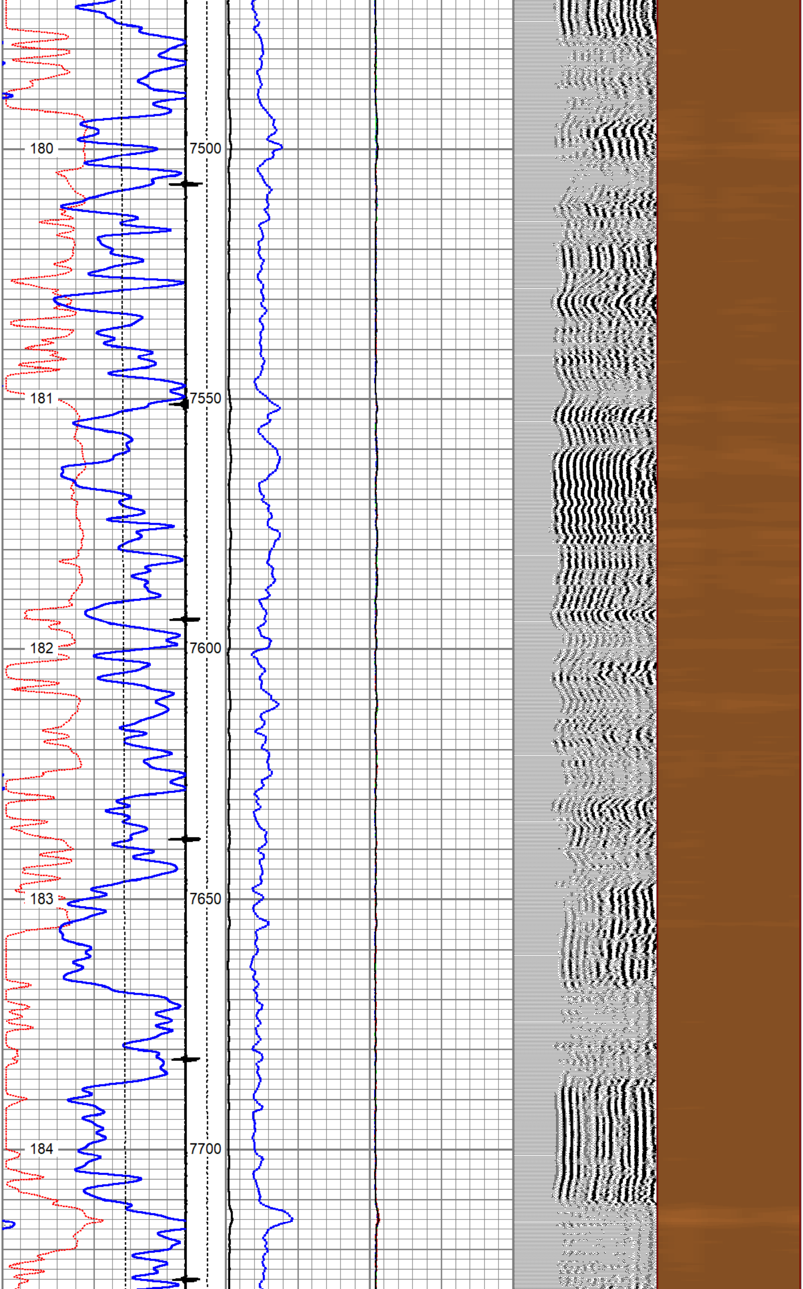
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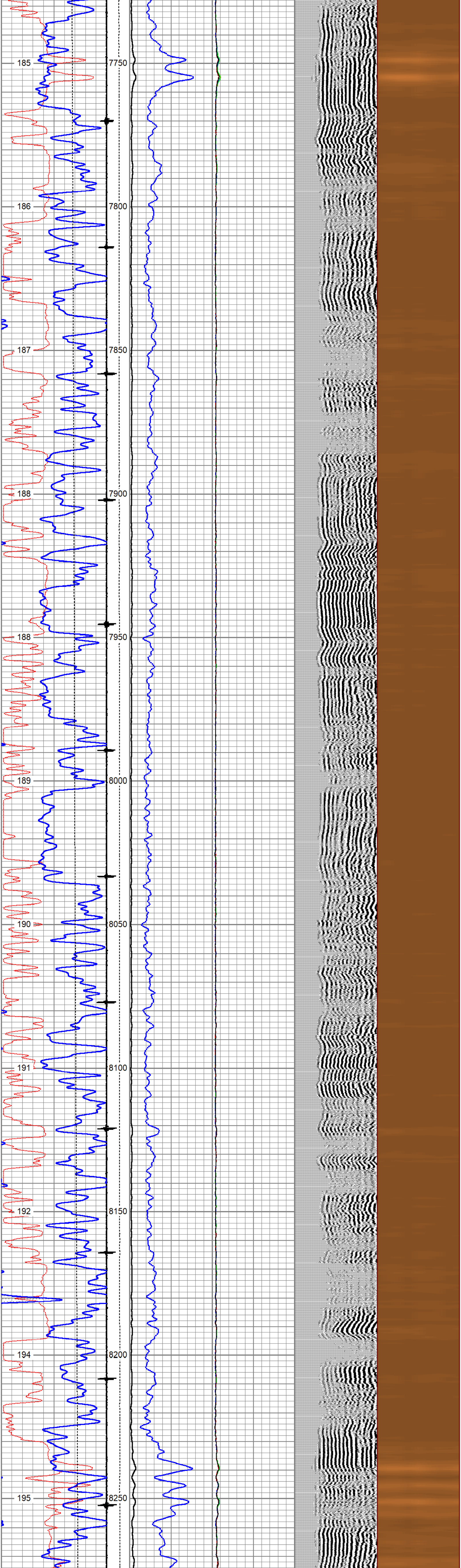
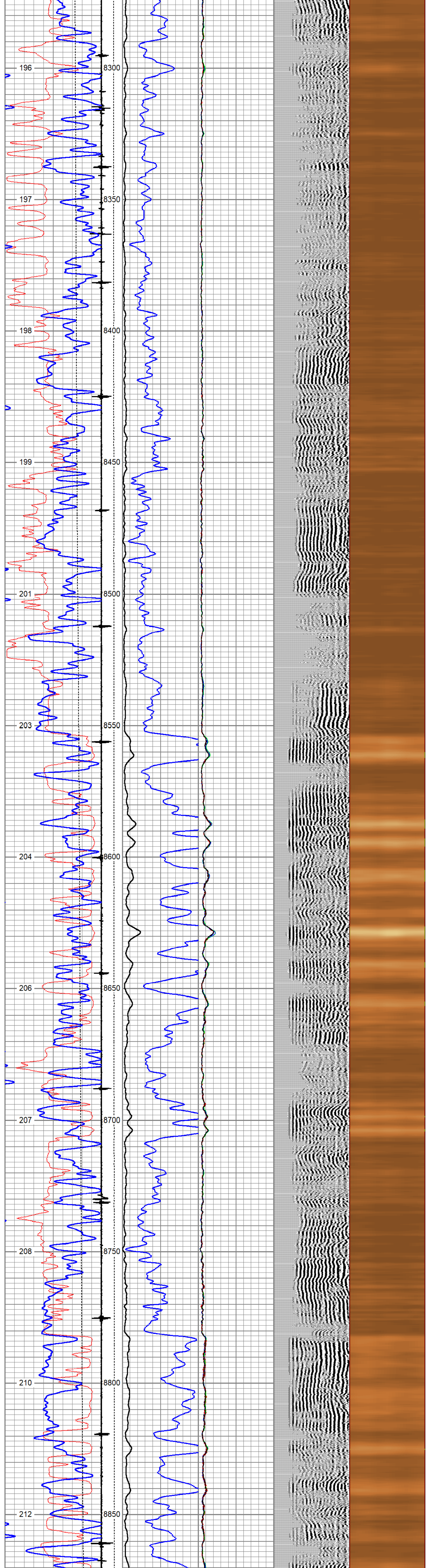
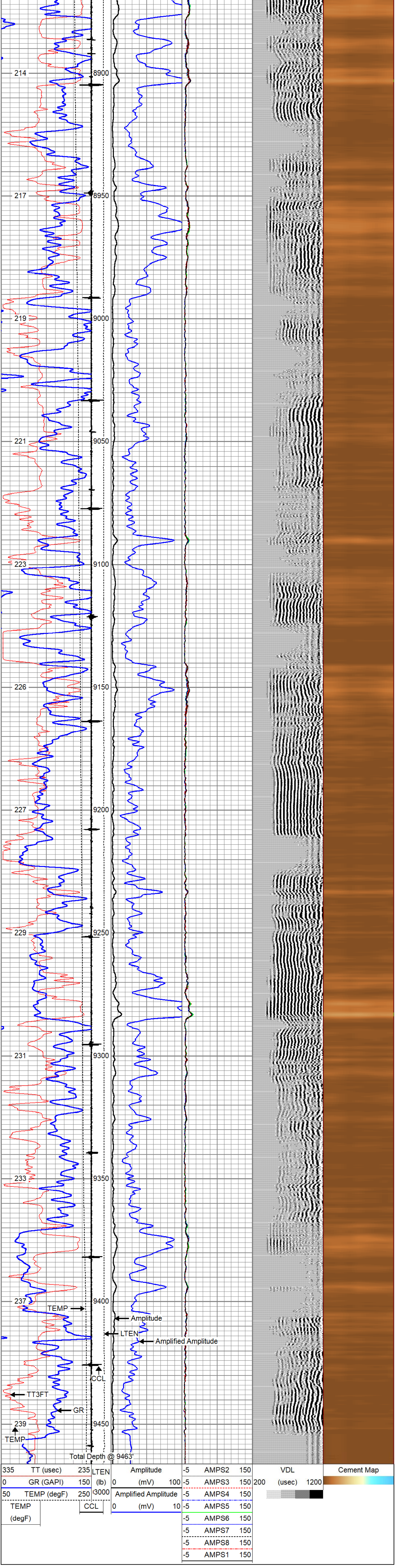




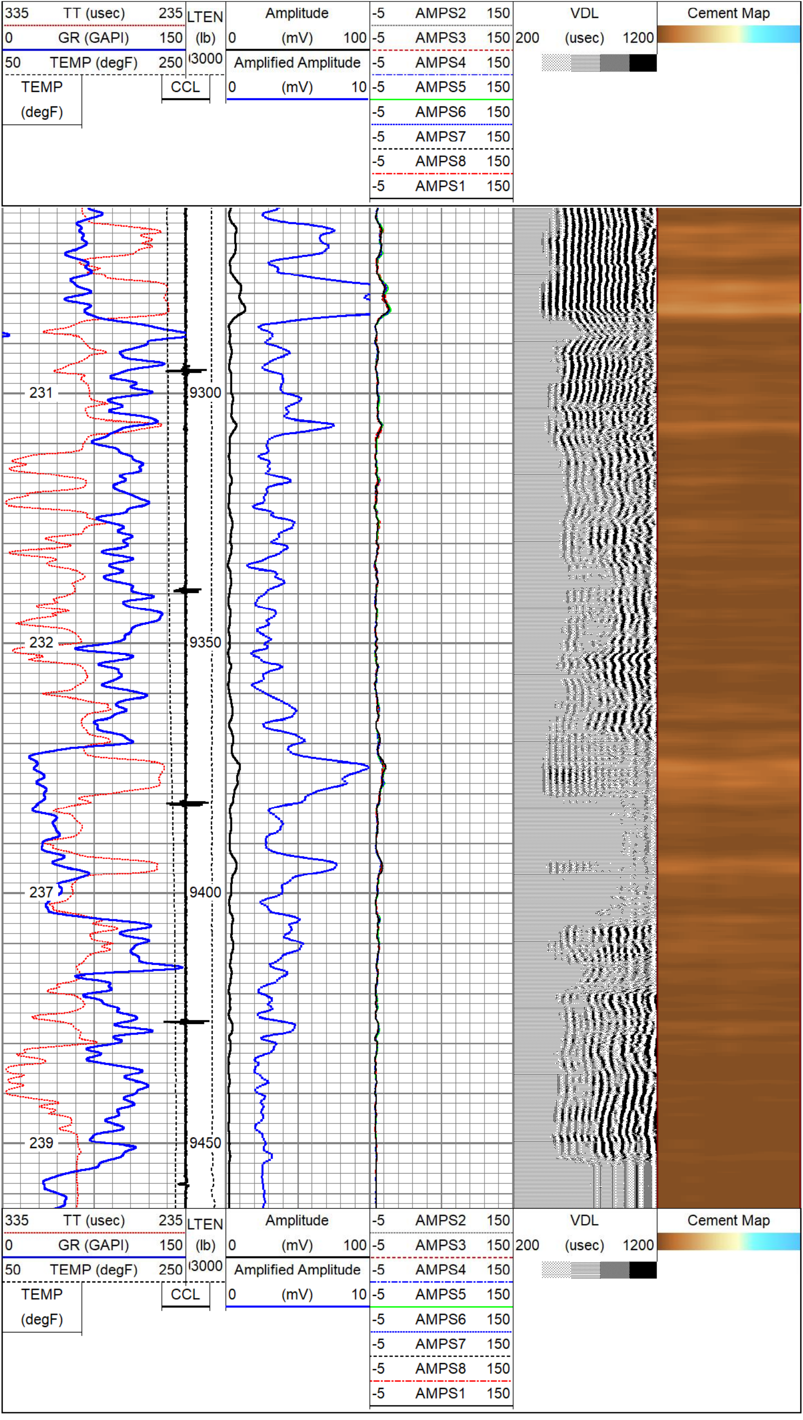


TWG
THE WIRELINE GROUP

REPEAT SECTION

LOGGED WITH ZERO PSI AT SURFACE
5"=100'

Database File	federal rwf 344-9.db
Dataset Pathname	cbl/pass2
Presentation Format	rbl7
Dataset Creation	Sun Mar 06 15:29:51 2022
Charted by	Depth in Feet scaled 1:240



Calibration Report

Database File	federal rwf 32-9.db
Dataset Pathname	pass1.3
Dataset Creation	Sun Mar 06 03:01:59 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:	2640.701	ft

Master Calibration, performed Sat Mar 5 19:17:10 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.005	0.856	0.700	81.196	94.670	0.194
CAL	0.003	1.016				
5'	0.006	0.514	0.700	81.196	158.439	-0.190
SUM						
S1	0.006	0.815	0.000	100.000	123.694	-0.790
S2	0.002	0.767	0.000	100.000	130.698	-0.292
S3	0.004	0.751	0.000	100.000	133.850	-0.472
S4	0.005	0.831	0.000	100.000	121.054	-0.650
S5	0.005	0.964	0.000	100.000	104.236	-0.494
S6	0.004	1.045	0.000	100.000	96.069	-0.365
S7	0.001	0.982	0.000	100.000	101.949	-0.113
S8	0.002	0.904	0.000	100.000	110.815	-0.212

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.003	1.016	1.000	0.000

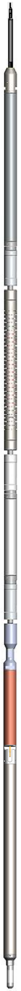
Air Zero Calibration, performed (Not Performed):

	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					
RBT_Status	14.85		Cable-Head-Titan 1 7/16" Cable Head	1.00	1.44	1.00
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:	federal rwf 344-9.db: field/well/cbl/pass2
Total length:	14.85 ft
Total weight:	57.00 lb
O.D.:	2.75 in

Company	TEP ROCKY MOUNTAIN LLC
Well	FEDERAL RWF 344-9
Field	RULISON
County	GARFIELD
State	CO
Country	USA