RADIAL CEMENT BOND LOG

Cutters Wireline Service, Inc.
A Cased Hole Wireline Company

Company	POCO OPERATING
Well	BRIGHTON LAKES 20-17-2CDH
Field	DJ HORIZONTAL CODELL
County	ADAMS
State	COLORADO
Country	USA

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Well BRIGHTON LAKES 20-17-2CDH
Field DJ HORIZONTAL CODELL
County ADAMS
State COLORADO **Country** USA

Location: API #: 05-001-10084
400' FSL & 1980' FWL SESW
LAT: 39.94442 N LONG: -104.80176 W
SEC 20 TWP 1S RGE 66W

Other Services: NONE

Permanent Datum	GROUND LEVEL	Elevation 5047'	Elevation
Log Measured From	KELLY BUSHING = 23'		K.B. 5070'
Drilling Measured From	KELLY BUSHING		D.F. 5070' G.L. 5047'

Date	29 JANUARY 2021		
Run Number	ONE		
Depth Driller	18430'		
Depth Logger	8515'		
Bottom Logged Interval	8513'		
Top Log Interval	SURFACE		
Open Hole Size	8.75"		
Type Fluid	WATER		
Density / Viscosity	8.3#		
Max. Recorded Temp.	232 F		
Estimated Cement Top	SEE LOG		
Time Well Ready	ROA		
Time Logger on Bottom	13:30		
Equipment Number	W-8055/C-044		
Location	WINDSOR, CO		
Recorded By	SCHUMAN		
Witnessed By	MR G. THORLAKSEN		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625" J-55	36#	SURFACE	1890'
Prot. String				
Production String	5.5" P-110	20#	SURFACE	18418'
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

LOG CORRELATED TO FLOATATION SUB AT 7430'
LOG RAN W/ 0PSI @ SURFACE

THANK YOU FOR CHOOSING CUTTERS WIRELINE SERVICE

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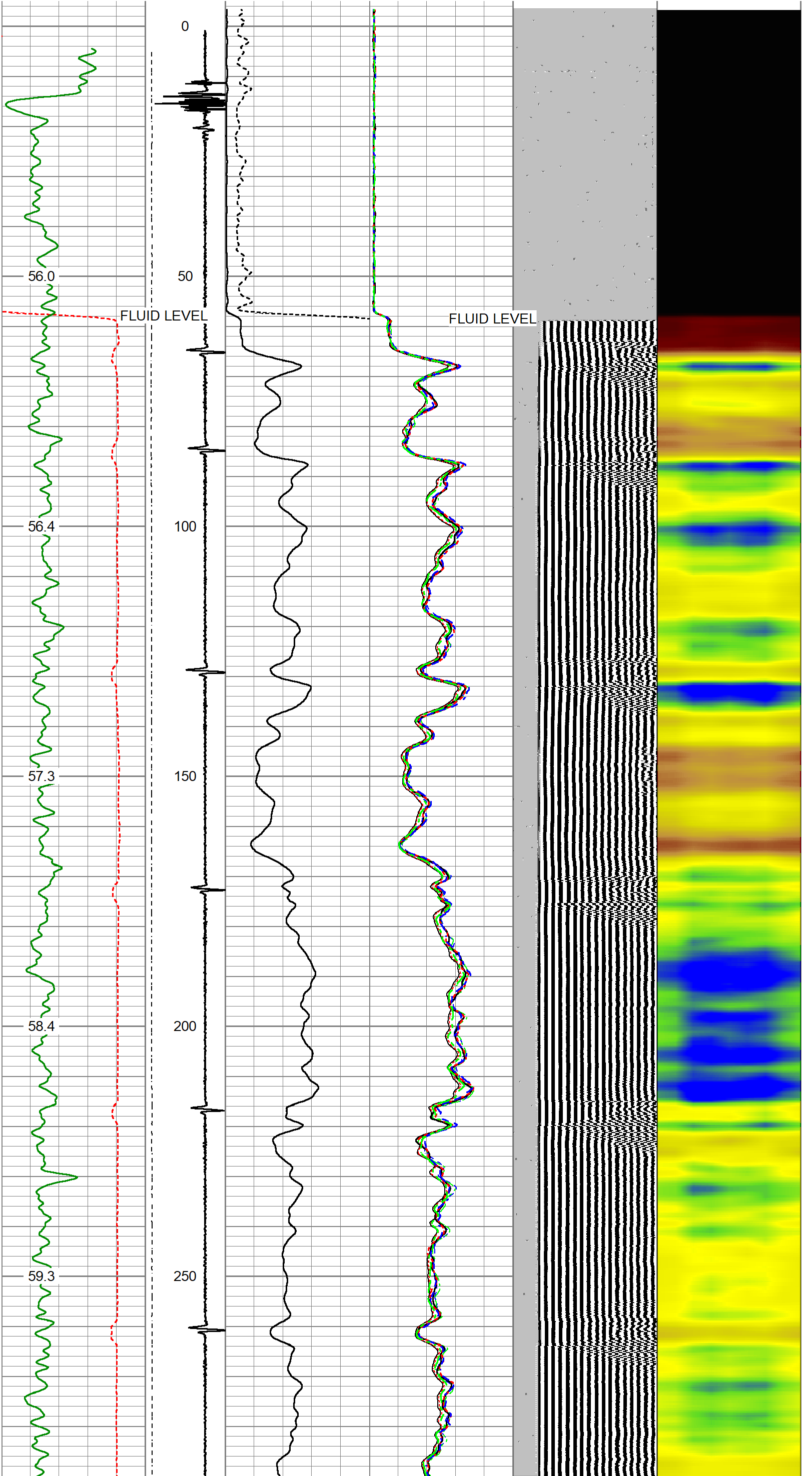
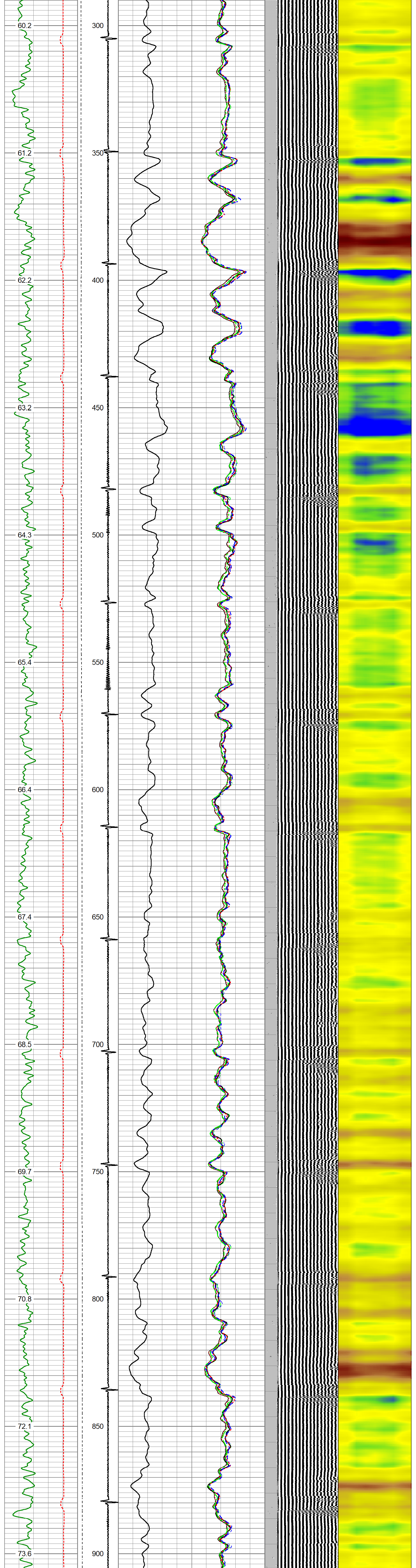
MAIN PASS

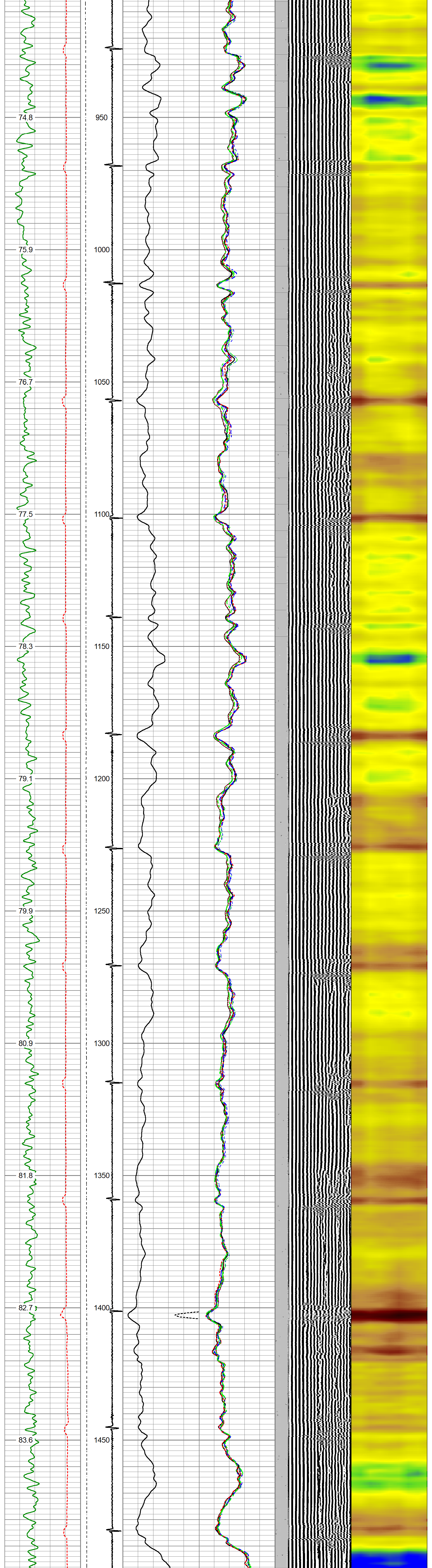
5"=100'

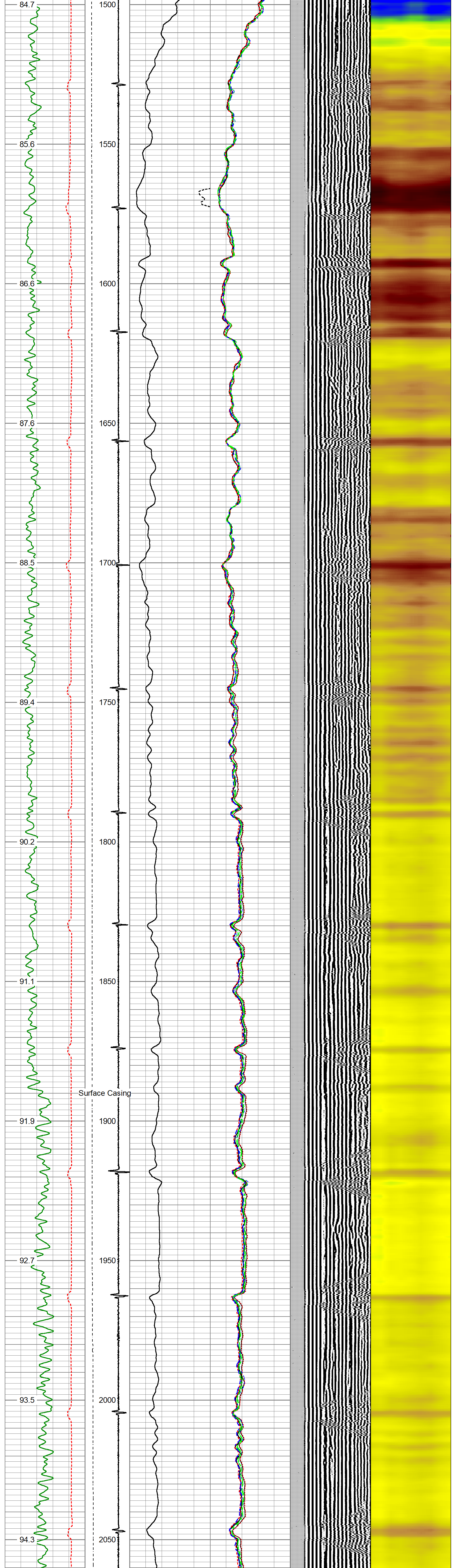
Database File	0500110084_brighton lakes 20-17 2cdh_poco.db
Dataset Pathname	RBL/pass5
Presentation Format	rbt-gct8acc
Dataset Creation	Fri Jan 29 13:28:24 2021
Charted by	Depth in Feet scaled 1:240

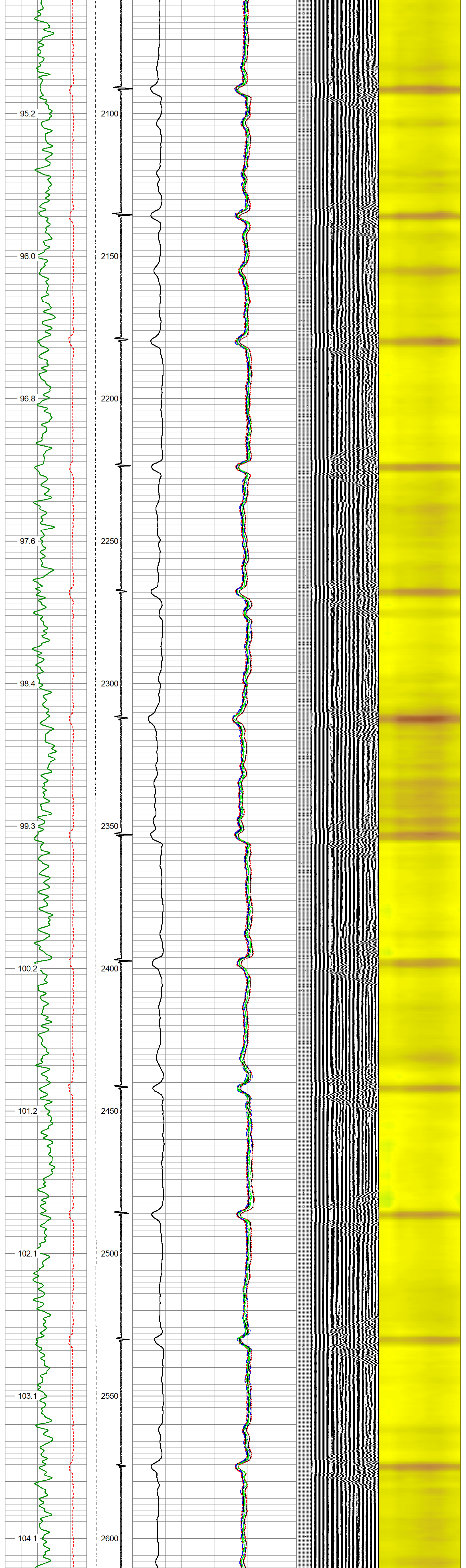
Track 1	Track 2	Track 3	Track 4	Track 5	Track 6
343 Travel Time (usec) 243	-3 CCL 1	0 AMP (mV) 100	-5 AMPS1 150	200 VDL (usec) 1200	1 Cement Map 8
0 Gamma Ray (GAPI) 200	0 LTEN (lb 3000	0 AMPx10 (mV) 10	-5 AMPS2 150		
TEMP (degF)			-5 AMPS3 150		
			-5 AMPS4 150		
			-5 AMPS5 150		
			-5 AMPS6 150		
			-5 AMPS7 150		
			-5 AMPS8 150		

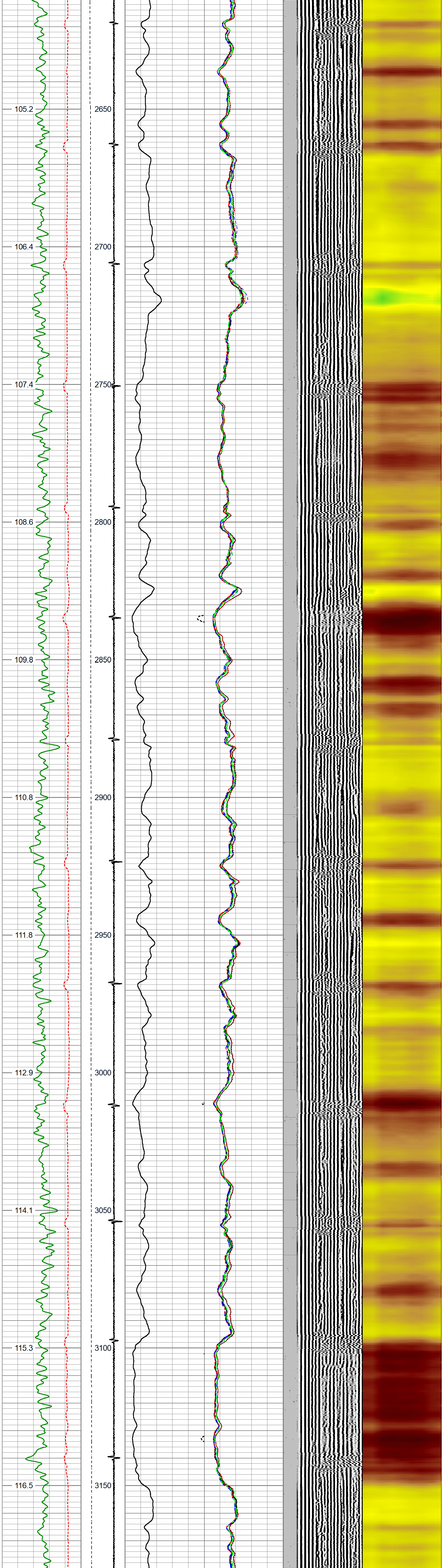


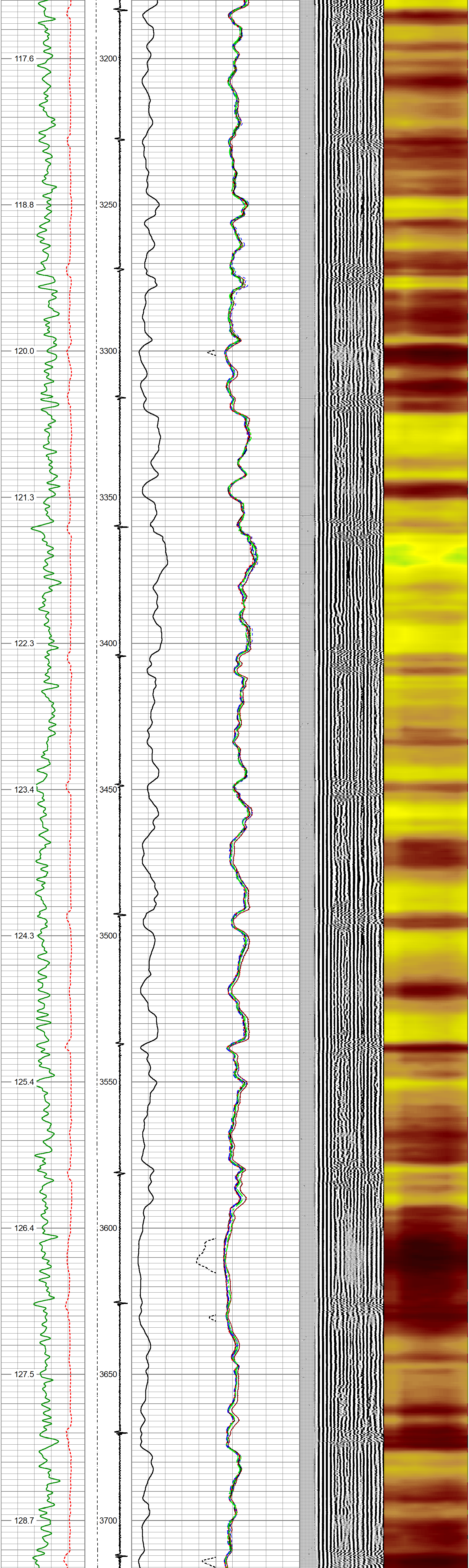


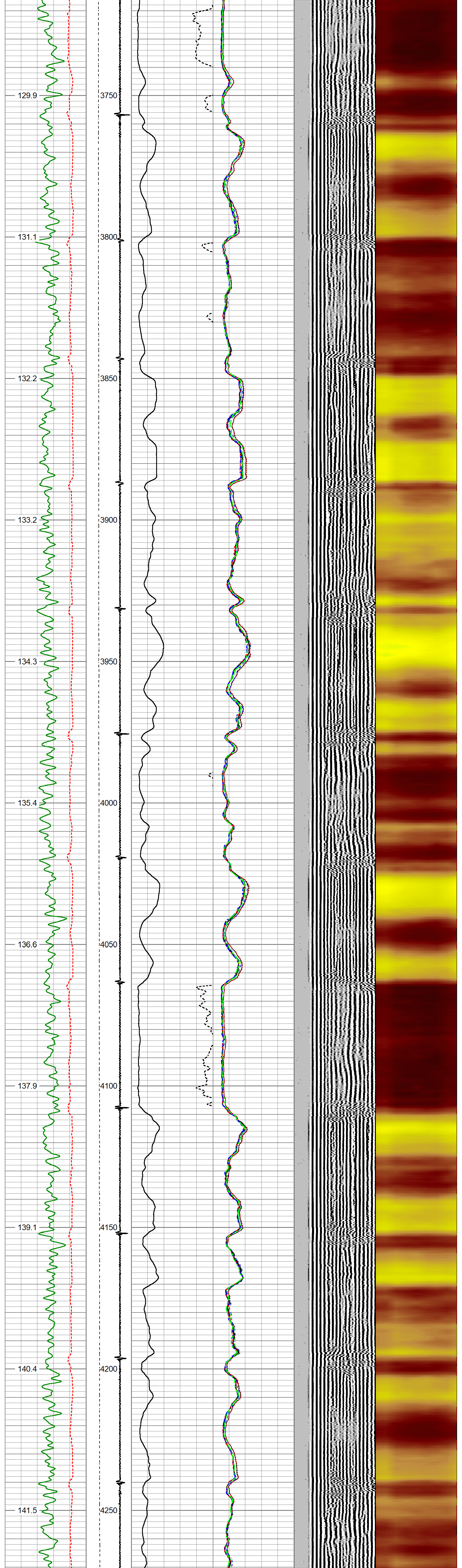








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132.2
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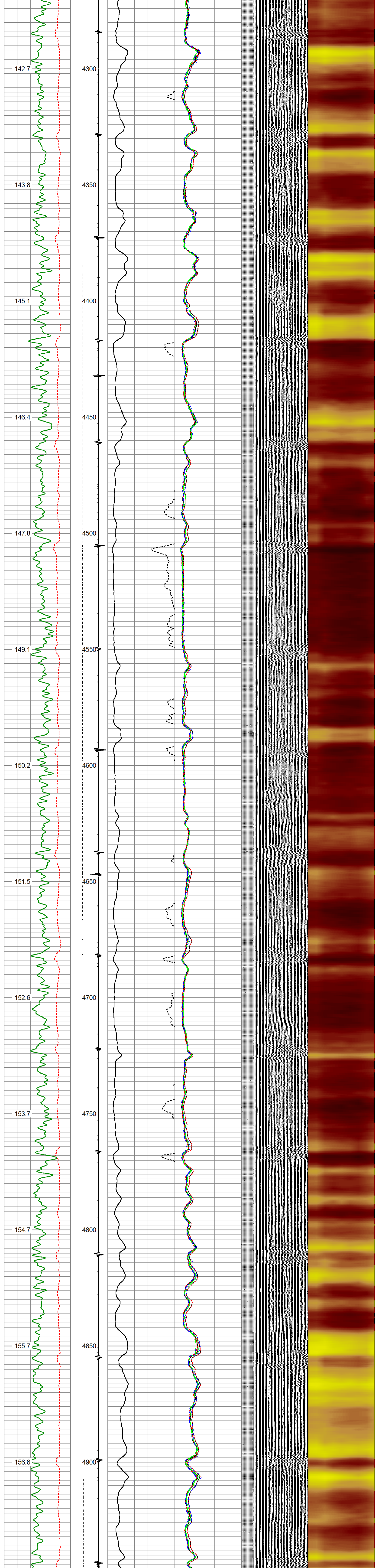
139.1
4150
140.4
4200
141.5
4250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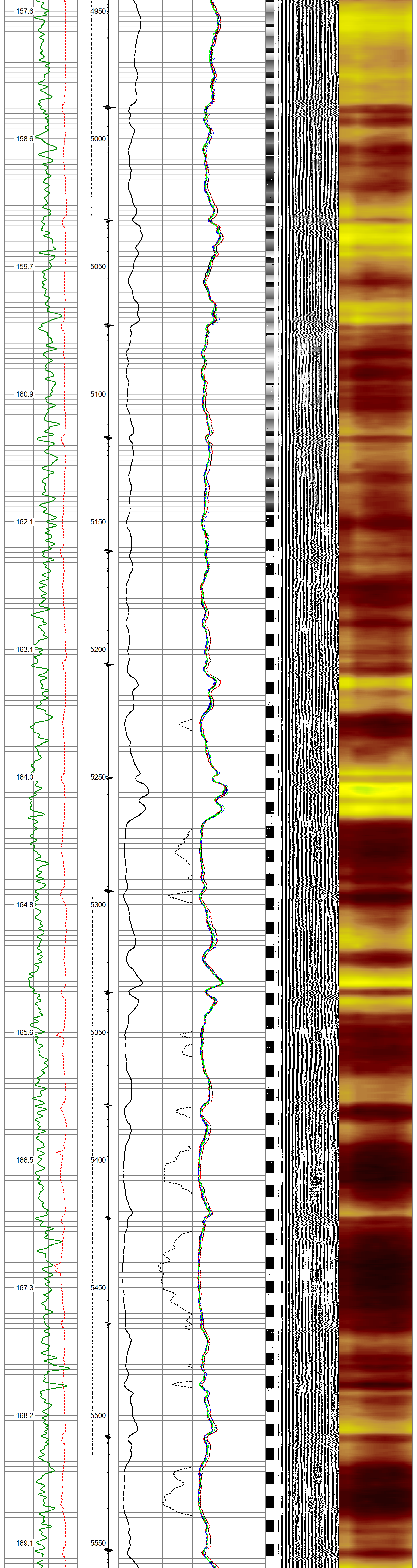
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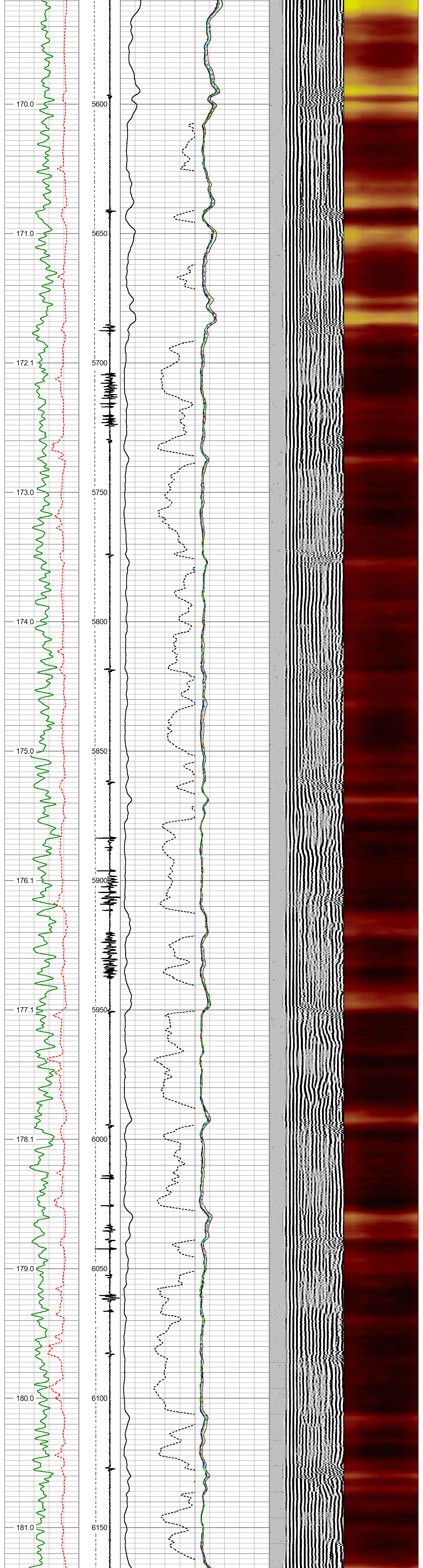
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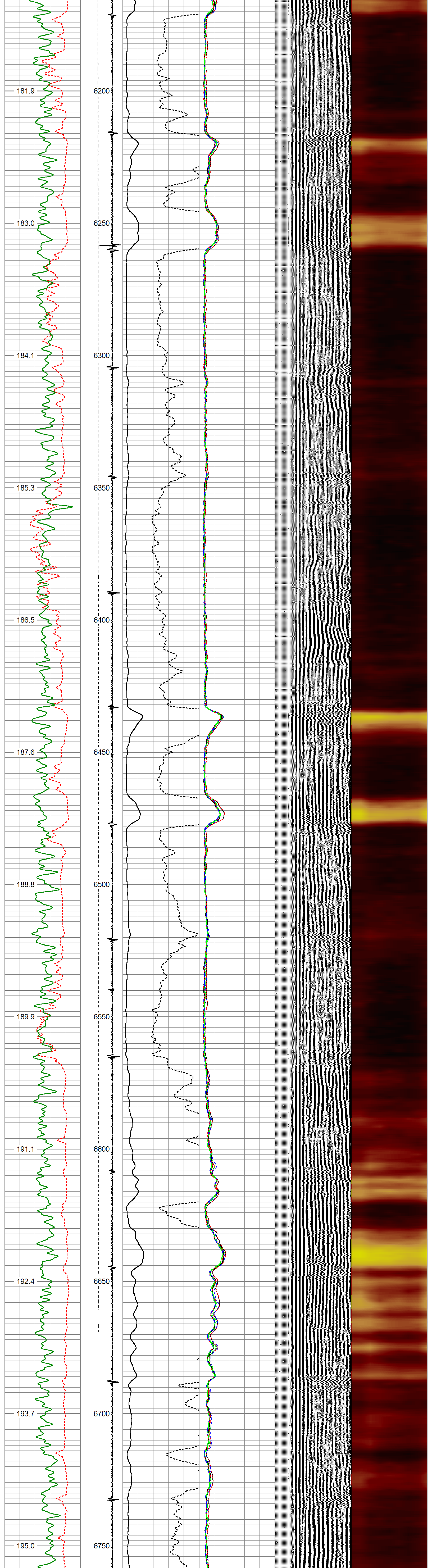
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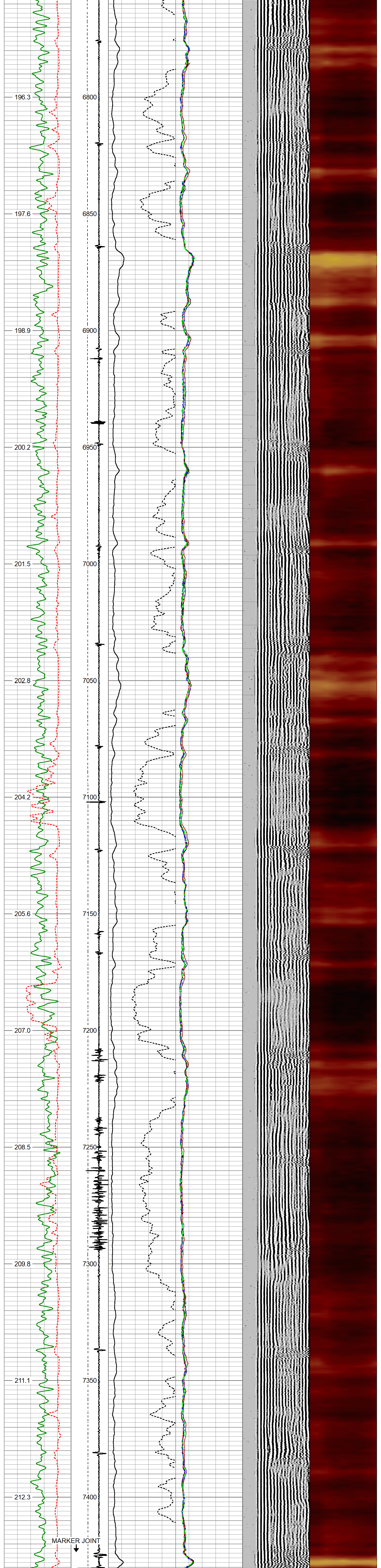
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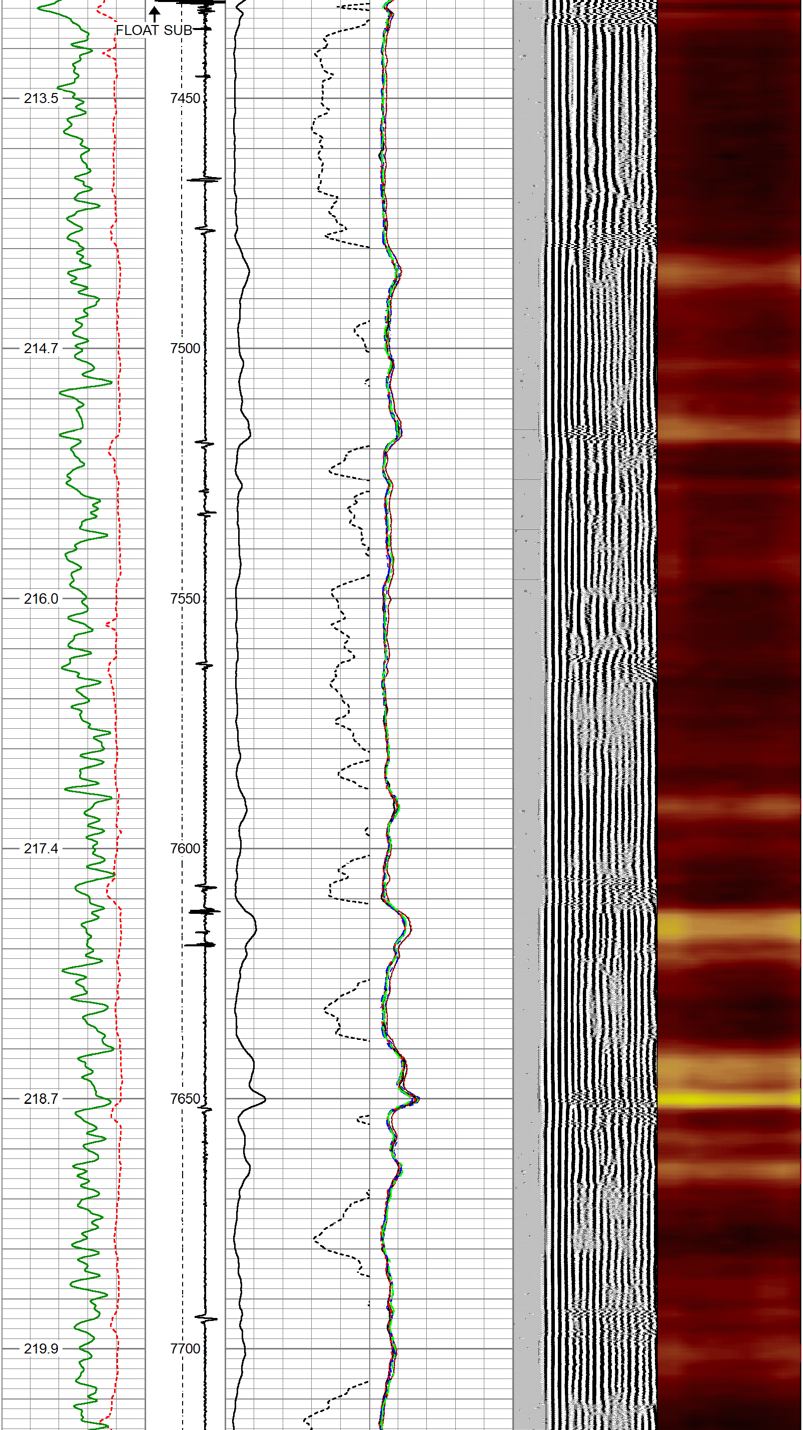
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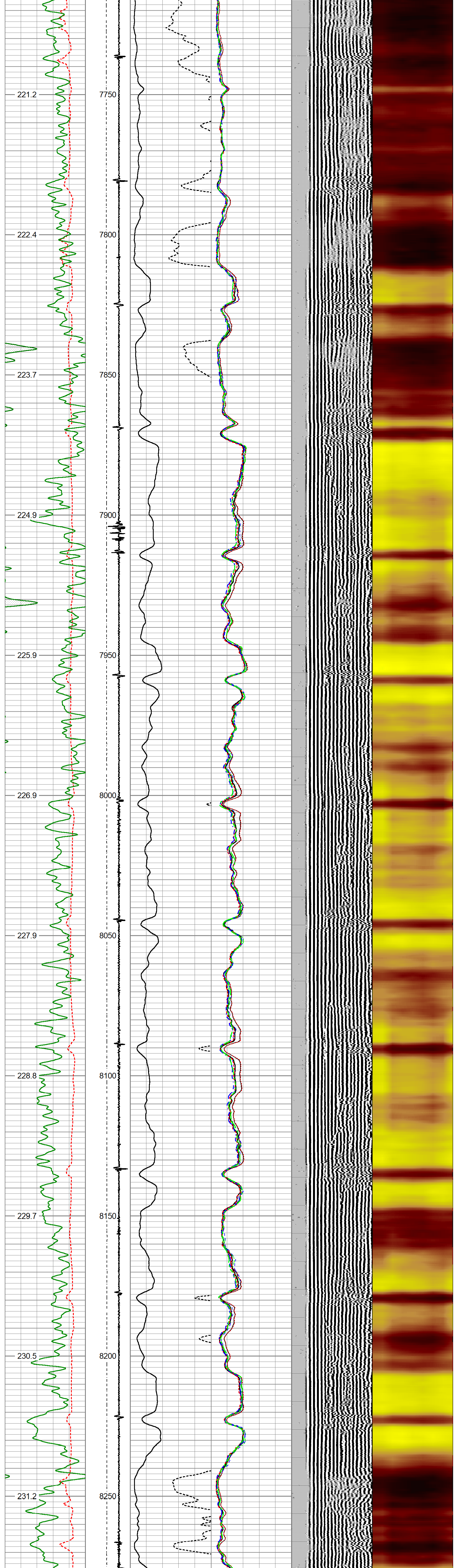

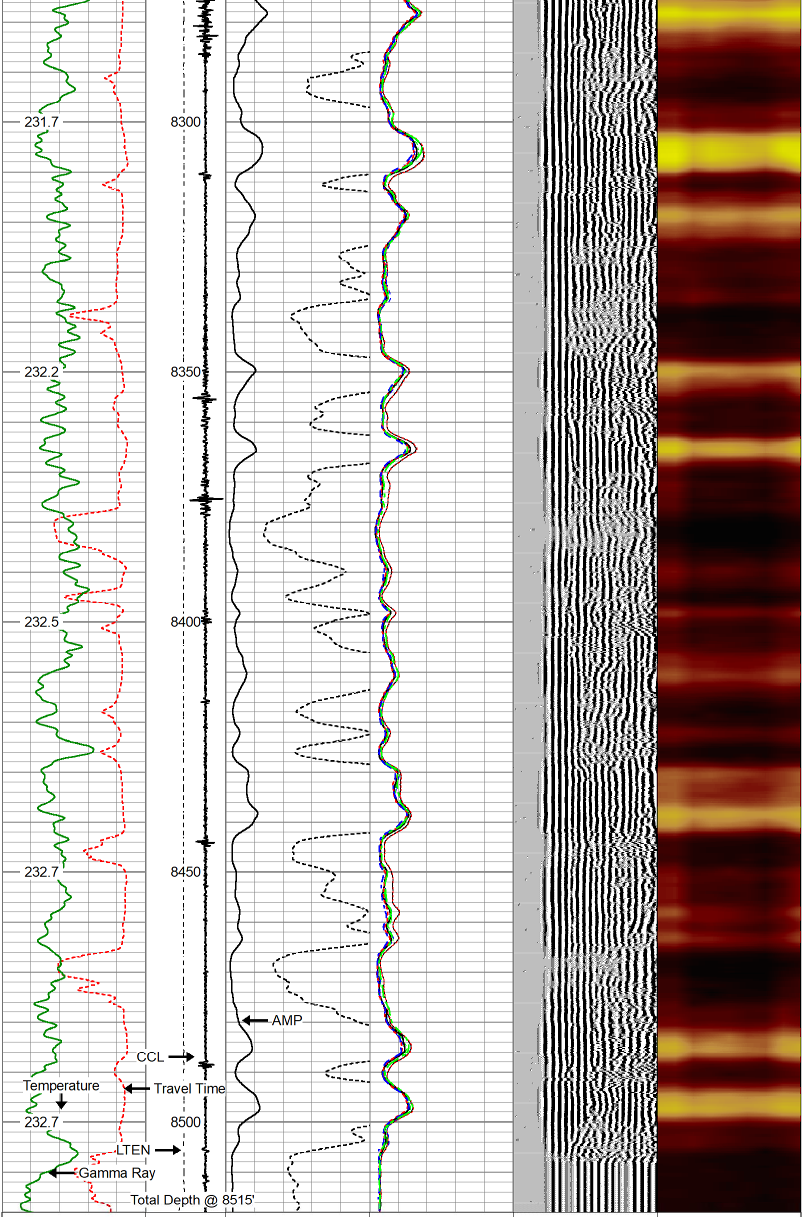

Travel Time	-3 CCL 1	0 AMP (mV) 100	-5 AMPS1 150	200 VDL (usec) 1200	1 Cement Map 8
343 (usec) 243	LTEN	0 AMPx10 (mV) 10	-5 AMPS2 150		
Gamma Ray	0 (lb 3000		-5 AMPS3 150		
0 (GAPI) 200			-5 AMPS4 150		
TEMP			-5 AMPS5 150		
(degF)			-5 AMPS6 150		
			-5 AMPS7 150		
			-5 AMPS8 150		

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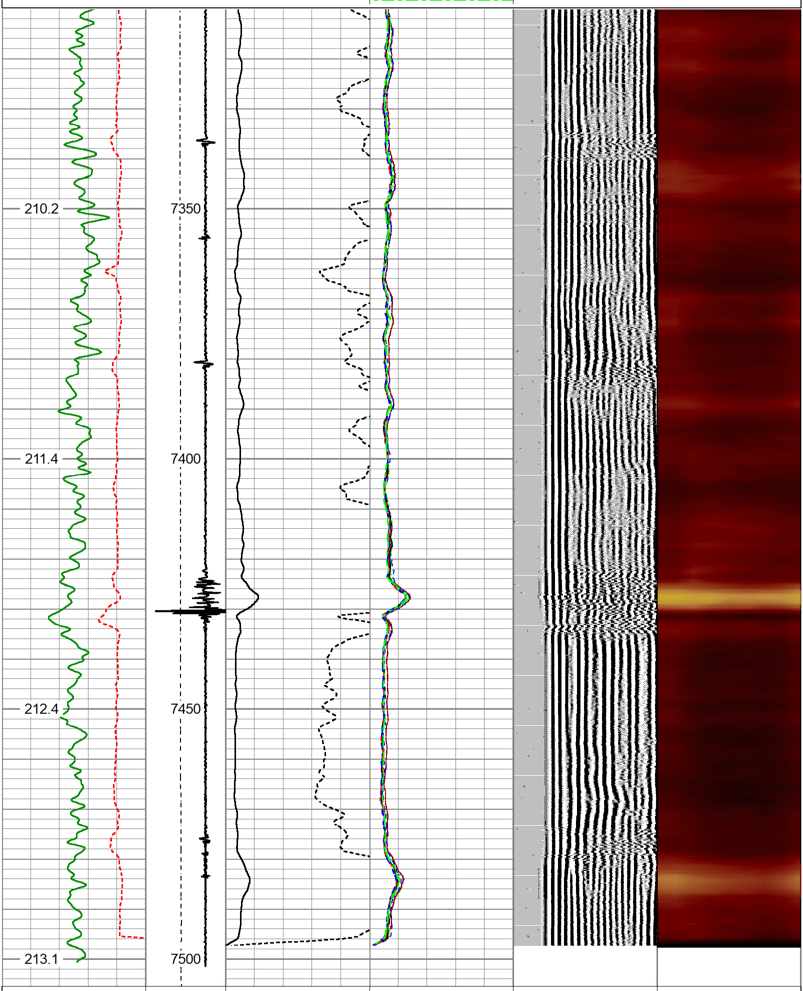
REPEAT PASS

5"=100'

Database File	0500110084_brighton lakes 20-17 2cdh_poco.db
Dataset Pathname	RBL/pass3.1
Presentation Format	rbt-gct8acc
Dataset Creation	Fri Jan 29 13:26:09 2021
Charted by	Depth in Feet scaled 1:240

Travel Time	-3 CCL 1	0 AMP (mV) 100	-5 AMPS1 150	200 VDL (usec) 1200	1 Cement Map 8
343 (usec) 243	LTEN	0 AMPx10 (mV) 10	-5 AMPS2 150		
Gamma Ray	0 (lb 3000		-5 AMPS3 150		
0 (GAPI) 200			-5 AMPS4 150		
TEMP			-5 AMPS5 150		
(degF)			-5 AMPS6 150		
			-5 AMPS7 150		
			-5 AMPS8 150		



Travel Time	-3 CCL 1	0 AMP (mV) 100	-5 AMPS1 150	200 VDL (usec) 1200	1 Cement Map 8
343 (usec) 243	LTEN	0 AMPx10 (mV) 10	-5 AMPS2 150		
Gamma Ray	0 (lb 3000		-5 AMPS3 150		
0 (GAPI) 200			-5 AMPS4 150		
TEMP			-5 AMPS5 150		
(degF)			-5 AMPS6 150		
			-5 AMPS7 150		
			-5 AMPS8 150		

Calibration Report

Database File	0500110089_brighton lakes 20-17 3cdh_poco.db
Dataset Pathname	RBL/pass1
Dataset Creation	Fri Jan 29 09:35:20 2021

Gamma Ray Calibration Report

Serial Number:	FW1304-53	
Tool Model:	Probe275	
Performed:	Thu Jan 07 13:45:20 2021	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Temperature Calibration Report

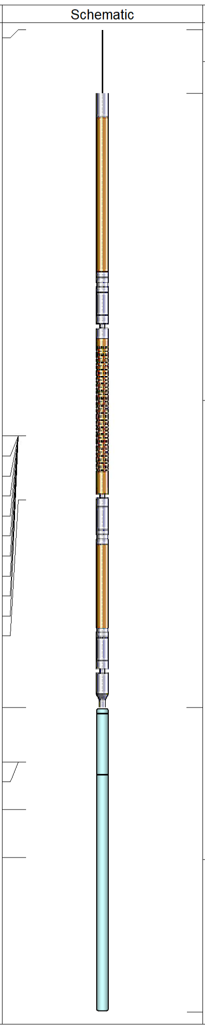
Serial Number:	FW1304-53	
Tool Model:	Probe275	
Performed:	Fri Jan 08 11:49:42 2021	
	Reference	Reading
Low Reference:	100.00 degF	6258.73
High Reference:	350.00 degF	26472.00
Gain:	0.01	
Offset:	22.59	
Delta Spacing	2	

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1905-150	
Tool Model:	RBTC3	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	972.542	ft

Master Calibration, performed Fri Jan 22 10:30:28 2021:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.013	0.871	1.000	71.921	71.000	-0.090
CAL	0.010	1.495				
5'	0.017	0.824	1.000	71.921	87.919	-0.511
SUM						
S1	0.012	0.830	0.000	100.000	122.311	-1.515
S2	0.017	0.838	0.000	100.000	121.870	-1.750
S3	0.017	0.890	0.000	100.000	114.530	-1.949
S4	0.017	0.903	0.000	100.000	112.901	-1.958
S5	0.014	0.930	0.000	100.000	109.234	-1.571
S6	0.014	0.950	0.000	100.000	106.885	-1.491
S7	0.014	0.973	0.000	100.000	104.293	-1.470
S8	0.014	0.892	0.000	100.000	113.923	-1.619

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
ErrCt	15.39		Cable_Head-Standard Standard Cable Head	1.00	1.69	1.00
			RBT-RBTC3 (FW1905-150)	9.62	2.75	90.00
WVFS8	9.02					
WVFS7	9.02					
WVFS6	9.02					
WVFS5	9.02					
WVFS4	9.02					
WVFS3	9.02					
WVFS2	9.02					
WVFS1	9.02					
WVFCAL	9.02					
WVF3FT	9.02					
WVF5FT	8.02					
WVFSYNC	4.77					
DCCL	3.92					
CCL	3.92					
TEMP	3.17					
GR	2.42		GCT-Probe275 (FW1304-53) Probe 2 3/4" Gamma Ray CCL w/Temperature	4.77	2.75	40.00

Dataset:	0500110084_brighton lakes 20-17 2cdh_poco.db: field/well/RBL/pass1
Total length:	15.39 ft
Total weight:	131.00 lb
O.D.:	2.75 in

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County	ADAMS		
State	COLORADO	**Country**	USA